APPENDIX A

A-1
Hopi Adjudication Claims

FILE No.: 39-91443
DATE FILED: 11-29-85

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

In Re the General Adjudication of all Rights to Use Water in the Little Colorado River System and Source	))))	No. 6417

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STATEMENT OF CLAIMS OF THE HOPI TRIBE

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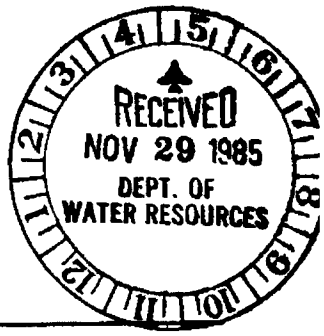

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INTRODUCTION

The Hopi Tribe, as a sovereign, has the right to use all of the economic benefits of its land and water without need for quantification of its right. In the more specific claim that follows, the Tribe does not waive this right nor does it waive its right, if quantification is required, to have additional water decreed to it if a need arises in the future, or to change the use of its water.

The Hopi Tribe has the complete right to administer its own water, and in filing this claim in no way submits to the jurisdiction of the State of Arizona or anyone else as to the control and administration of water decreed to the Hopi Tribe.

A significant portion of the water rights claimed relate to anticipated future uses of water to maintain the

Reservation as a useful and productive homeland for the Hopi people. Proposals for future use are not meant to indicate that the water must be used at the precise proposed place or for the precise proposed purpose -- but are to demonstrate that a certain quantity of water can practicably be used in the continued growth of the Reservation as a homeland for the Hopi people.

While we attempt to state the claim in a way that is useful to the Court and complies with the guidelines of the Department of Water Resources, the nature of the claims requires some latitude. The Court should bear in mind the admonition of the Arizona Supreme Court in United States v. Superior Court of the State of Arizona, Nos. 17633-SA et seq. decided Jan. 30, 1985 (slip op. at 18):

***

> Indian rights are conferred by federal law, and it is the federal substantive law which our courts must apply to measure those rights in the state adjudication. (citation omitted) Where state law conflicts, it must give way. Our courts have neither the intention nor the power to overturn the Winters doctrine or any other federal rule which supports the Indian claims.

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I. STATUS OF THE HOPI TRIBE AS A PARTY

The Hopi Tribe is a federally recognized Indian tribe with a Reservation located wholly within the Little Colorado Basin, in northeast Arizona. Since time immemorial the Tribe has resided in the Little Colorado Basin using the waters of the Little Colorado, the washes flowing into it and the

groundwater of the Basin to sustain its society. Because the Hopi Tribe has a paramount interest in these waters and the United States, its trustee, has conflicts of interest by representing the Navajo Tribe as well as the Hopi Tribe, the Hopi Tribe intervened in this proceeding to present its own claim in addition to the claims being presented for it by the United States.

A tribe's right to speak for itself in a general stream adjudication is firmly established. Arizona v. California, 460 U.S. 605, 612-616 (1983). The Hopi Tribe's motion to intervene in this proceeding was granted by this Court's order of April 30, 1985.

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II. BASIS OF THE TRIBE'S WATER RIGHTS

A. As a sovereign, long predating the United States, and the historic guardian of its lands, the Hopi Tribe claims under its own retained sovereignty the right to all groundwater and surface water in, on, or serving lands owned by the Hopi Tribe or allotted or assigned to its members, or that may hereafter be recognized as belonging to it or its members.

B. As the owner of lands and waters under both Spanish rule and Mexican rule, the Hopi Tribe further claims these waters under Articles VIII and IX of the Treaty of Guadalupe Hidalgo, Treaty between the United States and Mexico of February 2, 1848 (9 Stat. 922), reserving to citizens of Mexico the rights that they held under Mexican law.

C. Under the reserved rights doctrine established in Winters v. United States, 207 U.S. 564 (1908); Arizona v. California, 373 U.S. 546 (1963) and Cappaert v. United States, 426 U.S. 128 (1976) and as owner of all natural resources forming part of its land, United States v. Shoshone Tribe, 304 U.S. 111 (1938), the Hopi Tribe claims the right to all groundwater and surface water, in, on or serving lands owned by the Hopi Tribe or allotted or assigned to its members, or that may hereafter be recognized as belonging to it or its members.

In making these claims the Hopi Tribe does so on behalf of and for the benefit of its villages, clans and people.

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III. THE TRIBE'S PRIORITY TO THE USE OF WATER

The Hopis are the people with the oldest historic claim to water in this Basin. As the United States special three judge District Court held in Healing v. Jones, 210 F.Supp. 125 at 134 (1962), aff'd per curium, 373 U.S. 758 (1963):

> No Indians in this country have a longer authenticated history than the Hopis. As far back as the Middle Ages the ancestors of the Hopis occupied the area between Navajo Mountain and the Little Colorado River, and between the San Francisco Mountains and the Lockachokas.

The Hopis occupied this area long before the Spanish or Navajos came, and used its water resources to sustain their society. Oraibi, on Third Mesa, in the heart of the Little Colorado

Basin, is widely accepted as the oldest continually inhabited community in North America.

The Hopi Tribe claims a water right with immemorial priority senior to that of any other claimant, Indian or non-Indian. The Tribe claims this right for water to serve lands presently owned by the Tribe or Hopi allottees or assignees and for lands that may hereafter be recognized as belonging to the Tribe or Hopi allottees or assignees.

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IV. LAND STATUS

A. Aboriginal Lands.

The aboriginal lands of the Hopi Tribe far exceeded those lands belonging to the Tribe today or that may be awarded to the Tribe under the 1934 Act litigation described below. It is because the Hopis are the original inhabitants of these areas that their priority precedes the establishment of the reservation areas described below.

B. 1882 Executive Order Reservation.

The President of the United States by Executive Order of December 16, 1882, set aside a reservation of some 2.5 million acres for the use of the Hopi Indians "and such other Indians as the Secretary [of the Interior] may see fit to settle thereon." This was only a portion of the land traditionally and actually occupied by the Hopi Indians. One of the primary purposes of the reservation was to protect the Hopis from incursions by Navajos into Hopi land. Navajo

incursions continued, however, and in Healing v. Jones, supra, the court held that by actions beginning in 1931 the Secretary settled certain Navajo Indians in the Hopi Reservation. Id. at 169. A portion of the Reservation, (District 6) was recognized as exclusively for the Hopi Tribe and the remainder was recognized as a "Joint Use Area" for the Hopi and Navajo Tribes.

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The Joint Use Area was later partitioned in accordance with the Act of December 22, 1974, 88 Stat. 1712 now, as amended, 25 U.S.C. 640d et seq. The partition divided the joint use area into Hopi Partitioned Lands (HPL) and Navajo Partitioned Lands (NPL). See Map A. The Hopi Tribe claims all waters that serve or may serve District Six or the Hopi Partitioned Lands.

The 1974 Act as amended (25 U.S.C. 640d-6) provides that partition of the surface shall not affect the joint ownership "of the coal, oil, gas, and all other minerals within or underlying such lands." The Hopi Tribe claims all waters whether on or underlying Hopi or Navajo lands necessary for the development of the Hopi portion of such minerals. The Hopi Tribe also claims water necessary for the development of any minerals hereafter recognized as belonging to the Hopi Tribe whether or not ownership of the surface is in the Hopi Tribe.

C. 1934 Act Lands.

By Act of June 14, 1934, 48 Stat. 960, Congress set aside for the Navajo "and such other Indians as may already be

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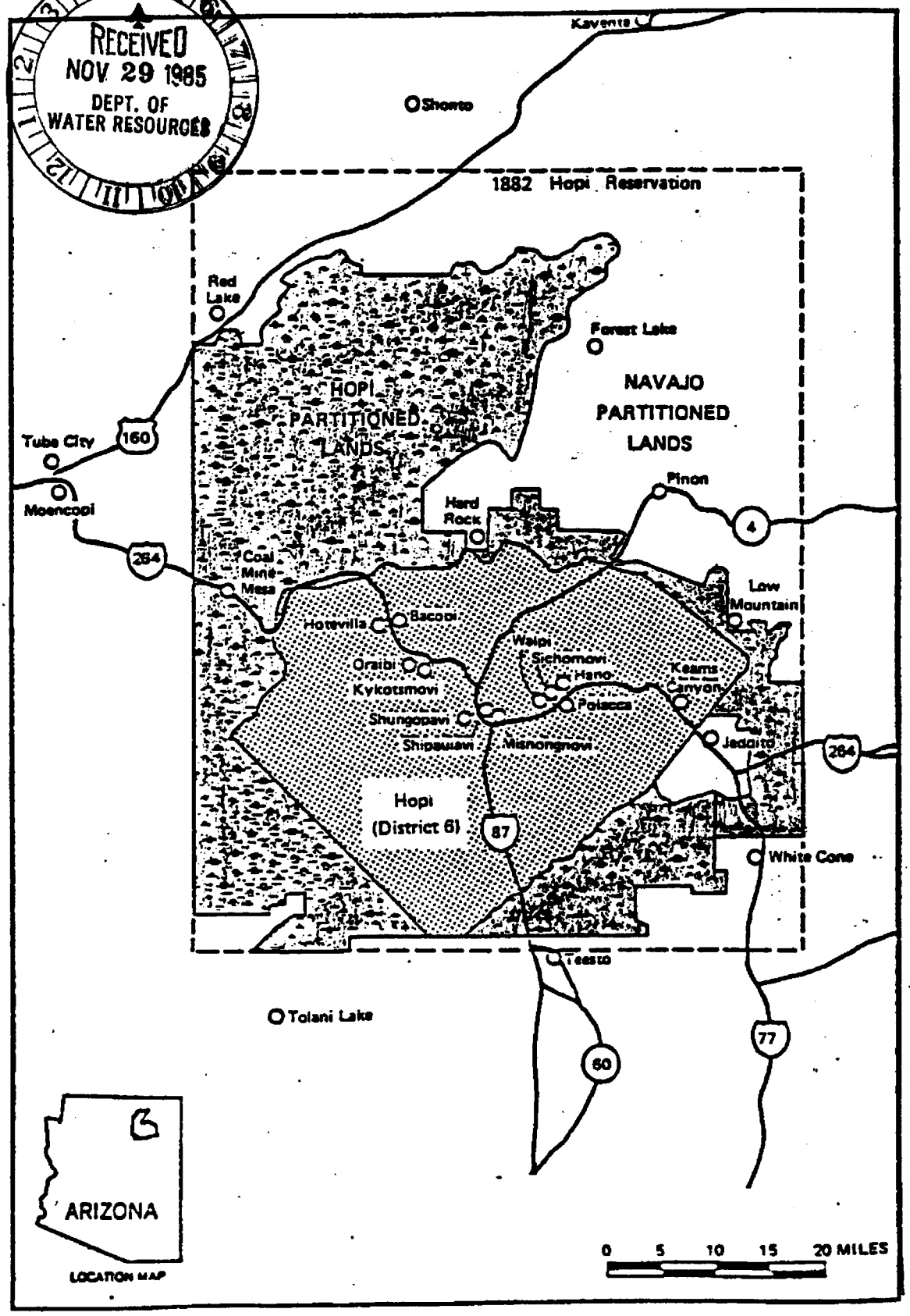

Map A

located thereon" an additional area of land as shown in the attached map (Map B) but excluding the 1882 Hopi Reservation. 25 U.S.C. 640d-7 authorized the Hopi Tribe to bring suit to establish land it occupied in 1934 in that area, and quiet title thereto. A part of such lands are the Hopi Villages of Moenkopi and Upper Moenkopi and surrounding lands. Pursuant to that Act the Hopi Tribe brought an action in the federal district court for the district of Arizona to establish the Tribe's right. Sekaquaptewa v. MacDonald, 448 F.Supp. 1183 (1978). The district court and court of appeals, 619 F.2d 801 (1980), certiorari denied, 449 U.S. 1010 (1980), have affirmed the Hopi Tribe's right to establish such occupancy and have affirmed the jurisdiction of the court. There has not yet, however, been a trial on the merits.

A final judgment in the 1934 Act case may or may not precede trial in this case. Accordingly the Hopi Tribe claims water rights for the Villages of Moenkopi and Upper Moenkopi, and related irrigation, and to serve any and all lands that may ultimately be recognized as belonging to the Hopi Tribe, Hopi allottees or Hopi assignees.

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Some of the water rights in the 1934 Act area, particularly those associated with Moenkopi, Upper Moenkopi and Moenave, are specifically quantified in Part V. Where lands are ultimately recognized as belonging to the Hopi Tribe for which no specific quantification is made in Part V, the Hopi Tribe claims the quantification attributable to such land in the federal statement of claims.

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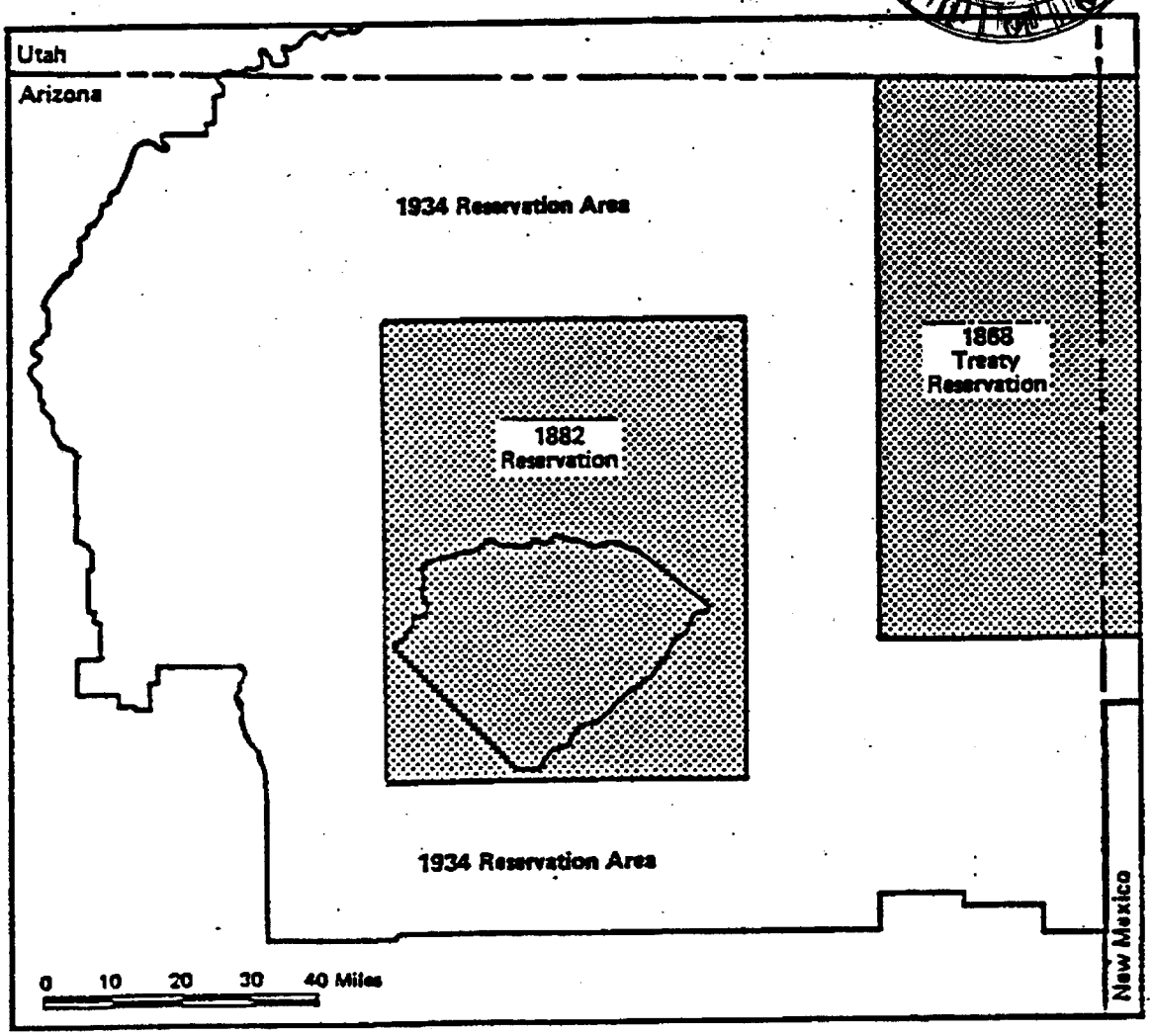

Map B

D. Hopi Industrial Park.

By Deed of August 4, 1966, property originally belonging to the Hopi Tribe but having been transferred to others was returned to the United States in trust for the Hopi Tribe. The property is located in Sections 21 and 22 of T19N, R15E of the Gila and Salt River Base and Meridian, Navajo and Coconino Counties, Arizona and is known as the Hopi Industrial Park. Special powers concerning the property were provided the Hopi Tribal Council by Act of May 22, 1970, 84 Stat. 260, 25 U.S.C. 641 et seq.

The Hopi Tribe claims immemorial water rights to service this land as fully as if the land had never left Hopi use, occupation, and control.

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V. QUANTIFICATION

Summary of Quantification.[1]

Water Use	Water-Demand (Acre-feet per year) Current/Recent	Future additional	Total[2]
Irrigation from surface water	10,114	60,915	71,029
Evaporation from Irrig. Storage	186	9,359	9,545
Irrigation from groundwater	1,250	15,780	17,030
Municipal and Domestic	2,060	6,165	8,225
Recreation	80	151	231
Stock Ponds and Stockwater	1,504	295	1,799
Commercial and Industrial	--	1,102	1,102
Mining and Related Industry	2,325	29,120	31,445
Total Claim			140,406

NOTES

1. The table is a summary for convenience and does not limit the broader claims made in the text above, e.g., relating to the lands decreed in the 1934 Act case to belong to the Hopi Tribe or to ownership of water resources as a whole; nor does the table limit the more precise description of each category that follows.

2. In addition to the annual claims listed in this table is a claim for 91,330 acre-feet for first-time filling of the proposed irrigation, recreation, and stock reservoirs, as described below.

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A. Surface Water for Irrigation.

A.1. Current and recent surface water irrigation on the 1882 Hopi Reservation and in the Moenkopi area.

The Hopi Tribe claims 10,114 acre-feet of water annually for current and recent surface irrigation as shown in Table 1. Table 1 shows water sources, locations of points of diversion and places of use, and water requirements for current and recent surface water irrigation in District 6 and Hopi Partitioned Lands within the 1882 Hopi Reservation and lands irrigated from Moenkopi Wash and Pasture Canyon in the Moenkopi area of the 1934 Act area.

A.2. Future surface water use through tributary projects.

The Hopi Tribe claims water for six irrigation projects using water from the tributaries flowing into the Little Colorado River as shown in Table 2. All but the Moenkopi project are located entirely within District 6 and Hopi Partitioned Lands. Storage for the Moenkopi project is located in Hopi Partitioned Lands in the 1882 Reservation but the land irrigated can either be adjacent to the reservoir in the HPL, within the 1934 Act area near Moenkopi village or a combination thereof. The locations of the projects are shown on Map C. Annual diversion requirements, evaporation, net water requirements and acres to be irrigated are provided in Table 2.

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TABLE 1

CURRENT & RECENT HISTORIC SURFACE WATER IRRIGATION CLAIMS ON THE HOPI RESERVATION

WATER SUPPLY	POINT OF DIVERSION SEC.(S)	TWN.	RGE.	PLACE OF USE SECTIONS.(S)	TWN.	RGE.	Acreage	WATER REQ. AF
1	21	33N	13E	20,21	33N	13E	202.7	168.24
1	8	33N	13E	8,17,19,20,29,30,31	33N	13E	768.4	637.77
Subtotal (Begashibito Wash)							971.1	806.01
2	8	32N	14E	7,8,18	32N	14E	307.5	255.23
2	20	32N	14E	20	32N	14E	16.9	14.03
2	1	30N	12E	19,30,31	31N	13E	*	*
2	1	30N	12E	1	30N	12E	*	*
2	36	31N	12E	24,25,36	31N	12E	64.8	53.78
2	2,3	31N	11E	2,3	31N	11E	*	*
2	2,3	31N	11E	34,35	32N	11E	200	400.00
2	32	32N	11E	31,32	32N	11E	*	*
2	32	32N	11E	36	32N	11E	*	*
2	32	32N	11E	5,6	31N	11E	*	*
2	32	32N	11E	1,2	31N	10E	900	1800.00
2	19	31N	10E	24,25	31N	9E	90	180.00
Subotal (Moenkopi Wash)							1579.20	2703.04
3	23	32N	17E	23,26	32N	17E	7.5	6.23
3	12	32N	17E	12,13	32N	17E	9.1	7.55
3	31	33N	18E	31	33N	18E	5.0	4.15
3	32	33N	18E	31,32	33N	18E	59.6	49.47
3	29	33N	18E	29	33N	18E	17.0	14.11
3	18	29N	15E	18,19	29N	15E	98.5	81.76
3	33	28N	14E	29,32,33	28N	14E	254.8	211.48
3	10	27N	14E	10	27N	14E	40.1	33.28
3	14	28N	14E	9,10,14,15	28N	14E	243.5	202.11
3	36	29N	14E	6	28N	15E	*	*
3	36	29N	14E	36	29N	14E	22.0	18.26
3	22	27N	13E	22,27	27N	13E	73.4	220.20
3	35	31N	16E	3	30N	16E	71.0	301.75
Subtotal (Dinnebito Wash)							901.5	1150.35

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TABLE 1 (Continued)

WATER SUPPLY	POINT OF DIVERSION SEC.(S).	TWN.	RGE.	PLACE OF USE SECTIONS.(S)	TWN.	RGE.	Acreage	WATER REQ. AF
4	10	30N	17E	10,15	30N	17E	45.8	38.01
4	33	31N	18E	32,33	31N	18E	62.5	51.88
4	26	29N	16E	25,26	29N	16E	54.0	44.82
4	23	29N	16E	23	29N	16E	29.5	24.49
4	12	29N	16E	12,13,14	29N	16E	50.8	42.16
4	6	29N	17E	1,12	29N	16E	*	*
4	6	29N	17E	6,7	29N	17E	291.8	242.19
4	6	29N	17E	5,6	29N	17E	21.9	18.18
4	32	30N	17E	5	29N	17E	*	*
4	32	30N	17E	32	30N	17E	75.3	62.50
4	14	28N	15E	14	20N	15E	25.9	21.50
4	22	28N	16E	21,22	20N	16E	87.9	72.96
4	25	27N	15E	25,26,35,36	27N	15E	318.2	264.11
4	26	25N	14E	1,2,12	24N	14E	*	*
4	26	25N	14E	26,35	25N	14E	772.6	641.26
Subtotal (Oraibi Wash)							1836.2	1524.06
5	12	29N	18E	12,13	29N	18E	30.1	24.98
5	7	29N	19E	7,18	29N	19E	10.0	8.30
5	9	28N	18E	9,15,16,20,21,28,29	28N	18E	812.2	674.13
5	8	28N	18E	8	28N	18E	35.8	29.71
Subtotal (Wepo Wash)							888.1	737.12
6	4,5	27N	18E	4,5,7,8,18	27N	18E	611.9	507.88
6	23,26	28N	18E	23,26,35	28N	18E	106.1	88.06
6	23	28N	18E	23	28N	18E	40.8	33.86
6	19	29N	20E	19	29N	20E	44.6	37.02
6	19	30N	20E	19,30	30N	20E	68.4	56.77
6	7	27N	17E	7,8,17,18	27N	17E	29.5	24.49
6	10	27N	17E	10	27N	17E	7.0	5.81
6	24	28N	18E	24	28N	18E	42.7	35.44
6	13,24	27N	17E	13,24,25	27N	17E	86.6	71.88
6	24	26N	16E	24	26N	16E	50.0	212.50
Subtotal (Polacca Wash)							1087.6	1073.71

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TABLE 1 (Continued)

WATER SUPPLY	POINT OF DIVERSION SEC.(S)	TWN.	RGE.	PLACE OF USE SECTIONS.(S)	TWN.	RGE.	Acreage	WATER REQ. AF
7	34	26N	18E	3,4	25N	18E	*	*
7	34	26N	18E	34,35	26N	18E	144.0	612.00
Subtotal (Jeddito Wash)							144.0	612.00
8	20	27N	19E	19,20	27N	19E	99.2	82.34
Subtotal (Talahogan Wash)							99.2	82.34
10	10,11,21	32N	11E	10,11,27,32,33,34	32N	11E	300.0	1425.00
Subtotal (Pasture Canyon)							300.0	1425.00
TOTAL							7806.9	10,113.63
USE								10,114.00

NOTE: *Indicates multiple points of diversion or places of use. Lump sum acreages are listed only once.

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TABLE 2

HOPI TRIBUTARY PROJECTS

Unit		Annual Diversion Reqmts (AF)	Evaporation (AF)	Net Water Reqmts (AF)	Area Irrigated Acres
1.	Moenkopi[1]	6,041	2,019	4,022	1,500
2.	Dinnebito	2,740	500	2,240	580
3.	Oraibi	3,044	540	2,504	650
4.	Wepo	1,584	330	1,254	320
5.	Polacca	3,436	620	2,816	730
6.	Jeddito	2,829	540	2,289	590
		19,674	4,549	15,125	4,370

NOTE

1. Water supply from the Moenkopi damsite to be used on 1,500 acres adjacent to the reservoir or as a supplemental supply to historic lands located near Moenkopi Village or a combination thereof.

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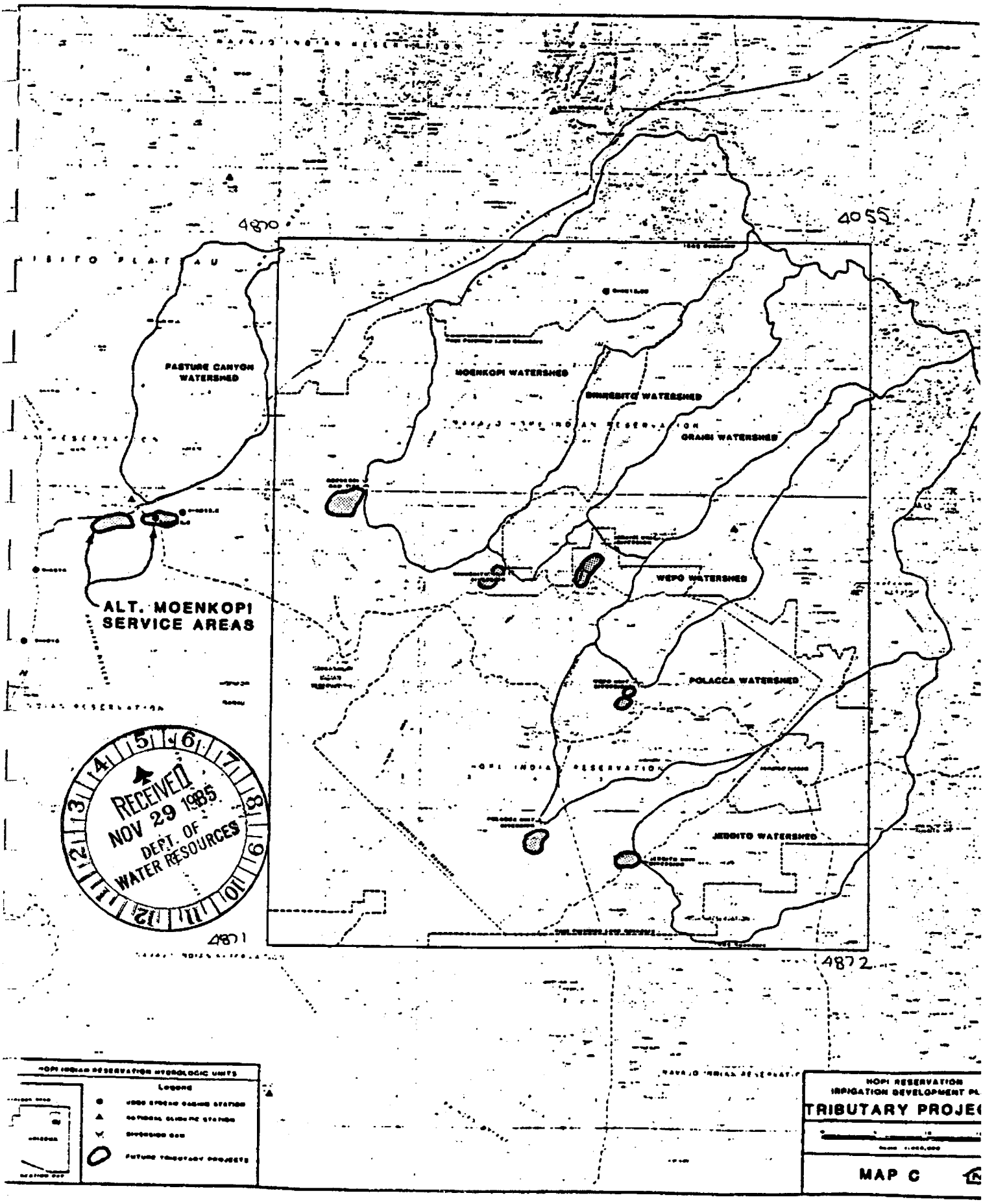
PASTURE CANYON WATERSHED
MOENKOPI WATERSHED
DINNEBITO WATERSHED
ORAIBI WATERSHED
WEPO WATERSHED
POLACCA WATERSHED
JEDDITO WATERSHED
ALT. MOENKOPI SERVICE AREAS
4890
4055
4871
4872
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HOPI INDIAN RESERVATION HYDROLOGIC UNITS
LEGEND
FUTURE TRIBUTARY PROJECTS
HOPI RESERVATION
IRRIGATION DEVELOPMENT PL
TRIBUTARY PROJEC
MAP C

A.3. Future irrigation from the main stem of the Little Colorado.

The Hopi Tribe claims 45,790 acre-feet annually from the main stem of the Little Colorado River to irrigate 13,710 acres of land in the 1882 Reservation that is practically irrigable. This land is part of a potential irrigation project in the Leupp area as shown on Map D. The entire project is planned to use some 206,000 acre-feet of water annually to irrigate some 64,480 acres.

In addition the Hopi Tribe claims the water necessary to irrigate Leupp project lands within the 1934 Act disputed area which are ultimately determined to be owned by the Hopi Tribe.

A.4. Evaporative uses and first fillings for irrigation storage facilities.

The Hopi Tribe claims 4,735 acre-feet of water annually for evaporation from existing irrigation storage facilities plus proposed storage facilities, and 4,810 acre-feet of annual evaporation from the Leupp storage project. In addition, the Hopi Tribe claims 31,000 acre-feet for a first time filling of reservoirs within the 1882 boundary plus 59,640 acre-feet as the Hopi Tribe's share of the first filling of the Leupp Reservoir.

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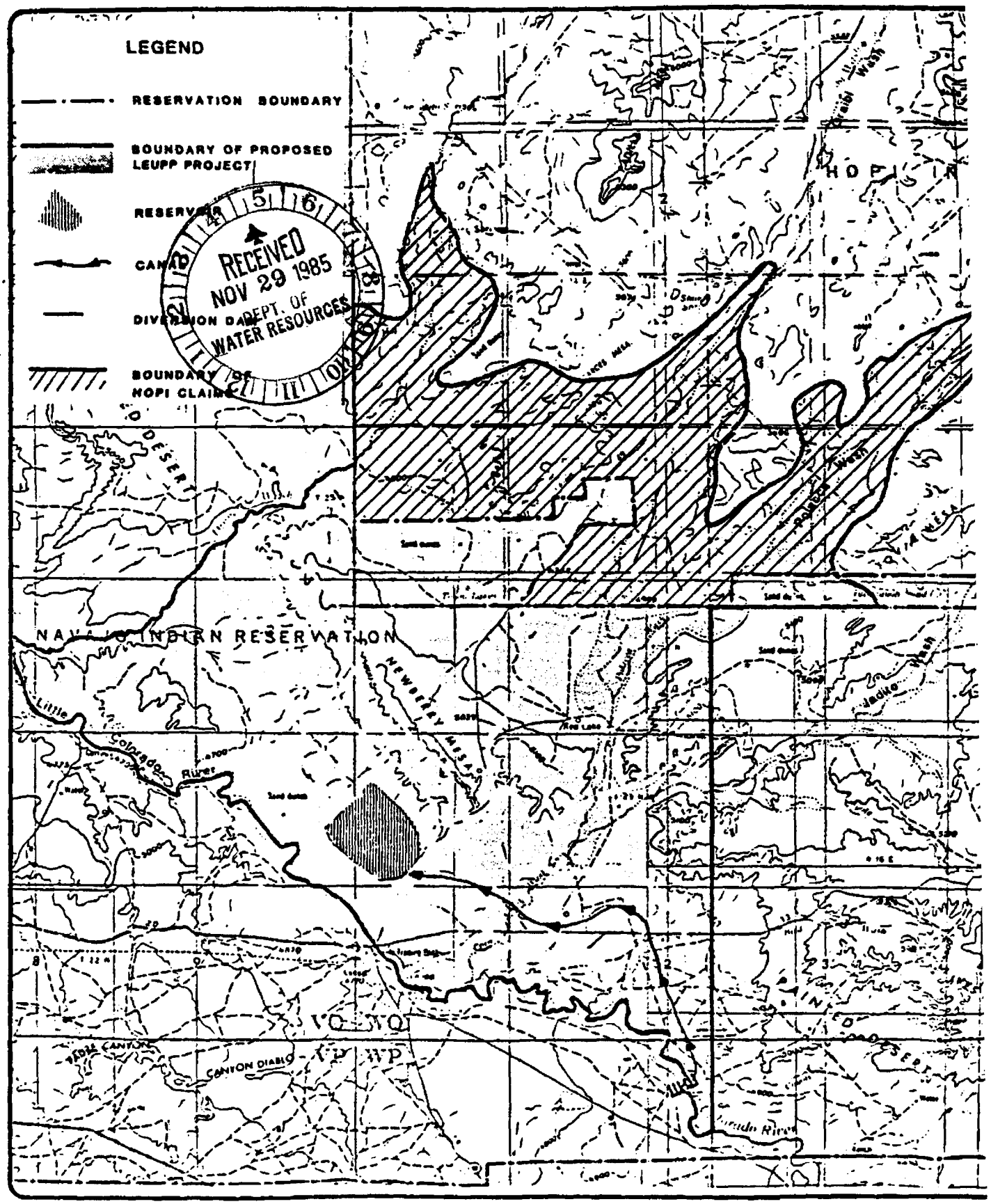

PROPOSED LEUPP SURFACE WATER IRRIGATION DEVELOPMENT PLAN

N

MAP D

The names, source of supply, locations, storage capacities, surface areas and annual evaporation are shown in Table 3.

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B. Groundwater for Irrigation.

B.1. Current and recent historic groundwater agricultural claim.

The Hopi Tribe claims 1,250 acre-feet of water annually to irrigate 288.5 acres of orchards, gardens and pastures now or recently irrigated from groundwater. A description of points of diversion, places of use, acreage, and water requirements is shown on Table 4, Current and Recent Groundwater Irrigation Claims on the Hopi Reservation. These figures include land within District 6, Hopi Partitioned Lands plus units in the Moenave Area in the 1934 Act area. The Hopi Tribe also claims current and recent irrigation from groundwater for lands recognized as belonging to it or its members in the future as shown in the United States' Statement of Claims.

B.2. Groundwater for future irrigation.

Groundwater for future irrigation on the Hopi Reservation is available primarily from the Navajo or "N" Aquifer.

The Hopi Tribe claims 15,780 acre-feet per year of groundwater to irrigate approximately 5,260 acres of land in District 6 and Hopi Partitioned Lands. The general location of the acreage to be irrigated is shown on Map E. The Tribe also claims

TABLE 3
EVAPORATION FROM IRRIGATION STORAGE

Facility	Water Supply	Legal Description Secs.	Twn.	Rge.	Gross Storage (AF)	Surface Area (acres)	Evaporation (Acre-Feet)
A. PRESENT FACILITIES							
1. Upper Reservoir	Pasture Canyon	21,22	32N	11E	250	27	112
2. Middle Reservoir	Pasture Canyon	27	32N	11E	25	5	20
3. Lower Reservoir	Pasture Canyon	33	32N	11E	100	13	54
SUBTOTAL							186
B. FUTURE FACILITIES ON TRIBUTARY DRAINAGES							
1. Moenkopi	Moenkopi Wash	Unsurveyed			24,900	380	2019
2. Dinnebito	Dinnebito Wash	4	30N	16E	1,200	120	500
3. Oraibi	Oraibi Wash	2	30N	17E	1,300	130	540
4. Wepo	Wepo Wash	Unsurveyed			800	80	330
5. Polacca	Polacca Wash	7	26N	17E	1,500	150	620
6. Jeddito	Jeddito Wash	27	26N	18E	1,300	130	540
SUBTOTAL					31,000 1/		~~4,549~~
C. LEUPP PROJECT							
1. Leupp Unit	L. Colorado River				280,000	5,650	22,600
SUBTOTAL (Hopi Claim) 2/					59,640 2/		~~4,810~~ 2/
TOTAL CLAIM					90,640		9,545

NOTES

1. For the future tributary facilities, there is a first time filling requirement of 31,000 acre-feet.
2. Hopi Tribe claim for the Leupp Project.

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TABLE 4

CURRENT & RECENT HISTORIC GROUND WATER IRRIGATION CLAIMS ON THE HOPI RESERVATION

POINT OF DIVERSION SEC.(S)	TWN.	RGE.	PLACE OF USE SECTIONS.(S)	TWN.	RGE.	Acreage	WATER REQ. AF
12	29N	15E	12	29N	15E	5.0	12.50
18	29N	16E	18	29N	16E	2.0	5.00
25	29N	18E	25	29N	18E	6.5	16.25
27	28N	20E	22,27	28N	20E	5.0	12.50
29	28N	20E	29	28N	20E	2.0	5.00
31	28N	20E	31	28N	20E	2.0	5.00
27	27N	13E	27	27N	13E	2.0	5.00
36	27N	15E	36	27N	15E	1.0	2.50
17	26N	17E	17,18	26N	17E	12.0	50.04
23	27N	19E	23	27N	19E	4.0	10.00
	1/			1/		145.0	664.00
	2/			2/		102.0	467.00
TOTAL CLAIM						288.5	1249.84

NOTES:

1/ Point of Diversion and Place of Use have been approximated by use of the UTM Coordinate System. For the Moenave/Vanzee Units, the coordinates are 471800 (Easting), 3998200 (Northing).

2/ Point of Diversion and Place of Use have been approximated by use of the UTM Coordinate System. For the Willow Springs/Littlefield Units, the coordinates are 468800 (Easting), 3999200 (Northing).

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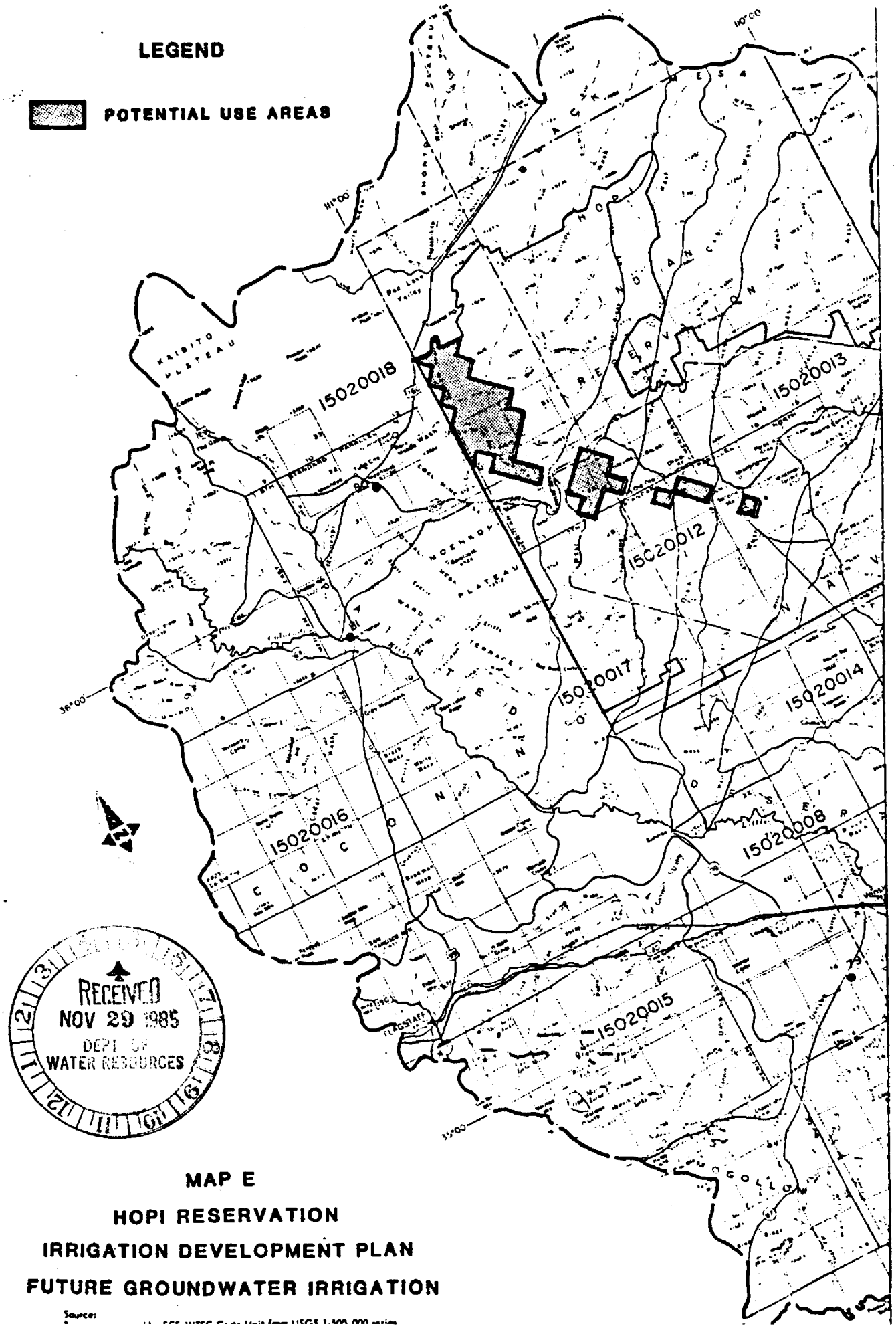

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MAP E

HOPI RESERVATION

IRRIGATION DEVELOPMENT PLAN

FUTURE GROUNDWATER IRRIGATION

Source:

all groundwater useful to irrigate lands that may be recognized as belonging to the Tribe or its members in the 1934 Act area.

C. Municipal and Domestic Water Use.

The Hopi Tribe claims 8,225 acre-feet of water for municipal and domestic use. The claim is shown in further detail in Table 5. The claim is for the total value rather than on a village by village basis.

D. Recreation.

The Hopi Tribe claims 231 acre-feet annually for evaporation from existing and future recreational lakes and 404 acre-feet for the first filling of future recreational lakes.

Description of Water Use

Present recreation water use is for camping, fishing and evaporation from lakes. Proposed future recreational uses include additional lakes which would serve similar purposes.

Location and Source of Water Use

The names, locations, types, dimensions and evaporation are shown on Table 6. The sources of water for the recreation lakes are the watersheds tributary to the lakes.

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TABLE 5

MUNICIPAL/DOMESTIC CLAIMS

Villages	Population Estimates[1/] 1984	Population Estimates[1/] Year 2040	Water Regmts. (Gpcd)	Water Claimed (AF)
A. MUNICIPAL				
1. Keams Canyon	374	1,500	200	336
2. Tewa/Hano	303	1,210	200	271
3. Walpi	117	500	200	112
4. Sichomovi	434	1,800	200	404
5. Shipaulovi	534	2,140	200	479
6. Polacca	1,030	4,130	200	926
7. Mishongnovi	700	2,800	200	628
8. Shungopavi	1,075	4,300	200	964
9. Kykotsmovi	1,200	4,800	200	1,077
10. Oraibi	271	1,100	200	246
11. Bacavi	451	1,800	200	403
12. Hotevilla	1,401	5,600	200	1,253
13. Moenkopi	1,159	4,620	200	1,036
SUBTOTAL	9,099	36,300	200	8,135
B. DOMESTIC	100	400	200	90
TOTAL	9,199	36,700		90
			Present Claim -	2,060
			Future Claim -	8,225

NOTES

1. Population projected to increase at a rate of 2.5 percent per year for both municipal and domestic populations.

2. Domestic use outside of villages is calculated to expand to 200 gpcd by the year 2040.

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TABLE 6

RECREATIONAL LAKES

Identification No.	Name	Location Sec.	Twn.	Rg.	Type Dam	Ht/Width (Feet)	NWS (acres)	Capacity (AF)	Evap. (AF)
A.	EXISTING LAKES								
1.	Keams Lake	23	28N	20E	E	50/200	2	30	8
2.	Lake Maho	23	28N	20E	E	60/200	3	90	2
3.	Twin Dam No. 1	13	28N	20E	E	40/300	3	30	12
4.	Twin Dam No. 2	18	28N	21E	E	70/400	12	240	48
SUBTOTAL									80
B.	PROPOSED LAKES								
1.	Bat Canyon No. 4	22	31N	13E	E	55/400	16	200	53
2.	Bat Canyon	5	30N	14E	E	15/350	15	92	49
3.	Willow Spring	15	31N	15E	E	15/200	15	112	49
SUBTOTAL								404	151
						TOTAL EVAPORATION (A+B)			231
						FIRST TIME FILLING REQUIREMENT			404

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E. ~~Stock~~ Ponds and Stockwater.

The Hopi Tribe claims 1,504 acre-feet annually for current stockwater use in District 6 and Hopi Partitioned Lands. The Tribe claims an additional 295 acre-feet annually for future use in those lands and 286 acre-feet for a one time first fill of future stockwatering ponds.

In addition the Tribe claims current and future stockwater for such lands as may be recognized as belonging to it, or its members in the 1934 Act area.

A summary in more detail of the Tribe's claim for District 6 and Hopi Partitioned Lands is contained in Table 7

which follows. In addition, Appendix 1 of this statement of claims is a detailed inventory of present uses and potential locations of future uses from which Table 7 is compiled. In each, the uses are segregated into two major categories to correspond with the State of Arizona claim statement forms. The categories are stock ponds, referring to surface water impoundments for stockwatering purposes and stockwater, referring to all stockwatering uses from groundwater. For clarity, these two uses are referred to as surface water and groundwater sources, each with an evaporation and consumption component.

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The uses were further separated into present and additional future uses, with claims tabulated separately for each category. The present claims are based on 1984 stocking rates. Additional future claims are based on potential stocking rates and present facilities plus facilities planned for installation to meet the potential stocking rates. In some instances the locations of future facilities are actual planned development sites. Others are potential sites.

Stockwatering facilities inventoried include wells, springs, watering troughs, storage tanks and stock ponds. These facilities are tabulated in the appendices for each range unit in both District 6 and Hopi Partitioned Lands. In each case the water source is shown as either groundwater (GW) or the name of the major drainage where the impoundment is made. The use is shown as either stockwater (SW), indicating a groundwater source, or stockpond (SP) indicating a surface

water impoundment. The diversion type is indicated as well, spring or dam. Storage type is shown as pond, tank, covered tank (no evaporation claim), trough or drinker. Dimensions are either measured or average for surrounding units.

Evaporation losses were computed using standard formulas and climatic data for the area.

Present consumption was based on present stocking rates. These stocking rates are by range unit and are shown in the appendix tables. Consumption was computed on a range unit basis as well, using an average consumption of 14 gallon per head per day. In cases where sheep or horses are included in the range unit, the stocking rate shows equivalent head of cattle.

Future consumption was based on the potential stocking rates of each unit, with the same per head consumption rate. These are shown in the appendix tables dealing with future use.

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TABLE 7

STOCKWATER SUMMARY FOR HOPI RESERVATION

Area	Source	Present Use Evap.	Present Use Consump.	Present Use Total	Future Additional Use Evap.	Future Additional Use Consump.	Future Additional Use Total	Total Claim
Dis. 6	Groundwater	528	36	564	-0-	37	37	601
	Surface	202	44	246	-0-	35	35	281
	Total	730	80	810	-0-	72	72	882
HPL	Groundwater	12	59	71	1	81	82	153
	Surface	593	30	623	79	62	141	764
	Total	605	89	694	80	143	223	917
TOTAL CLAIM		1,335	169	1,504	80	215	295	1,799
ONE TIME CLAIM FOR FIRST FILL							286	(surface supply)

F. Commercial and Light Industrial.

Water for small commercial institutions such as restaurants, grocery stores, etc., are included in the claim for municipal water use. In addition to those claims the Hopi Tribe claims 1,102 acre-feet annually of groundwater for future larger scale commercial and light industrial use. The proposed institution, source of water and water requirements in acre-feet annually are shown in Table 8.

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TABLE 8

COMMERCIAL AND INDUSTRIAL CLAIMS

		Source of Supply	Water Requirements (acre-feet)
1.	Winslow Industrial Park	Groundwater	60
2.	Meonkopi Commercial Site	Groundwater	50
3.	First Mesa Health Care Complex	Groundwater	212
4.	Vegetable processing plant	Groundwater	60
5.	Beef packing plant	Groundwater	120
6.	Potato processing plant	Groundwater	400
7.	Miscellaneous Future	Groundwater	200
		TOTAL	1,102

G. Mining and Related Industry.

G.1. Current water use.

The Peabody Coal Company in its mining and slurry of coal from Black Mesa currently uses approximately 4,650 acre-feet of groundwater per year. Any and all mining rights and rights to use water are derived through the Hopi and Navajo Tribes. The leases cover both Hopi and Navajo Partitioned Lands. Most of the coal currently mined underlies Navajo Partitioned Lands but is jointly owned by the Navajo and Hopi Tribes. See discussion of land status at p. 6, supra. The wells are located both on Navajo and Hopi lands. The water is drawn from beneath both, and under the leases each tribe is paid for one-half the water regardless of location.

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The Hopi Tribe claims 2,325 acre-feet per year of groundwater for current mining and slurry activities.

G.2. Future mining and slurry.

There is sufficient coal of high quality on Hopi Partitioned Lands for two additional mines and slurry pipelines should the Tribe so choose. The water for slurries and mining would be approximately 8,120 acre-feet per year. The exact location of wells and the distance from which the water would be drawn cannot currently be known, nor can contractual arrangements as to its use. The Hopi Tribe accordingly claims 8,120 acre-feet per year of groundwater for future mining and slurry activities.

The general location of the coal and possible well fields are shown on Map F.

G.3. Other mineral and industrial use.

The Hopi Tribe claims 21,000 acre-feet of groundwater annually for other mineral and industrial uses; 16,000 acre-feet annually for a 1,000 megawatt coal powered electrical generating station; 5,000 acre-feet annually for development of

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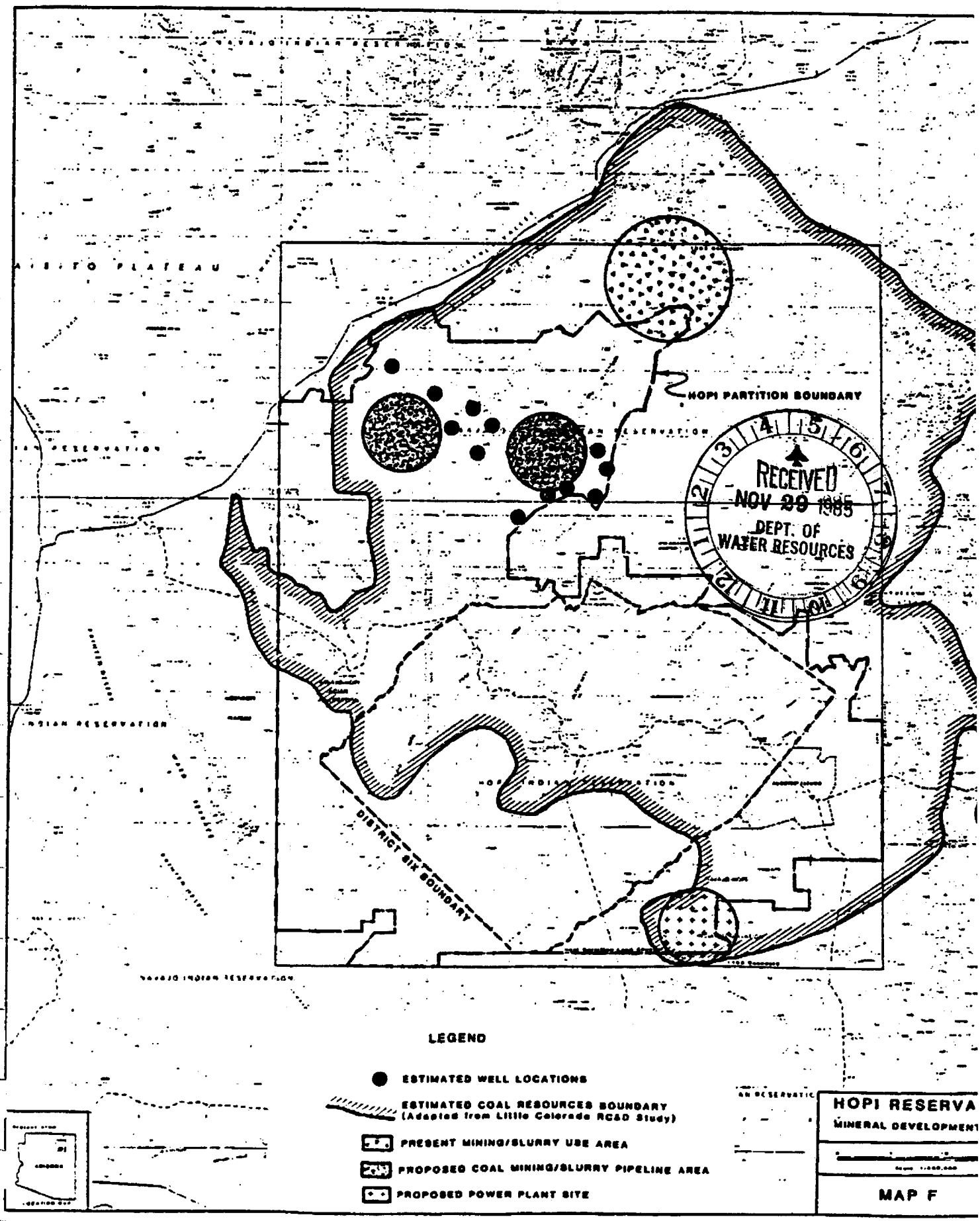

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oil, gas and minerals other than coal including manufacturing of fertilizer or other products from such minerals.

Respectfully submitted,

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Appendix 1

to the

Statement of Claims of the Hopi Tribe

Stock Ponds and Stockwater

WELL AND SPRING LOCATIONS FOR PRESENT STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Q gpm	Cattle	C.U. acft
BLUE POINT	6-3BP1	28N	14E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
BLUE POINT	6-3BP1	28N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	C. TANK			16	10	0	0.000	1	0.00	20		
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	POND			40	10	1257	0.288	1	1.52			
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	TROUGH			30	2	707	0.032	1	0.85			
BLUE POINT	6-3BP3	27N	14E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
BLUE POINT	6-3BP3	27N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
BLUE POINT												2241	0.363		2.71	60	155	2.43
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	POND			60	5	2827	0.325	1	3.41			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TANK			20	6	314	0.043	1	0.38	20		
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TROUGH	48	2		1	96	0.002	1	0.12			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	POND			40	12	1257	0.346	1	1.52			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24	20		
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TROUGH	18	3		2	54	0.002	1	0.07			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TROUGH	18	3		2	54	0.002	1	0.07			
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	C. TANK			16	10	0	0.000	1	0.00	20		
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	POND			100	20	7854	3.606	1	9.48			
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
BURRO SPRINGS	6-2C1	27N	16E	GW	SW	WELL	TANK			16	10	201	0.046	1	0.24	20		
BURRO SPRINGS	SPRING	26N	15E	GW	SW	SPRING	TANK			16	10	201	0.046	1	0.24	20		
BURRO SPRINGS												21039	6.617		25.41	100	277	4.35
CHIMOPOVI	6-2B1	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85			
CHIMOPOVI	6-2B1	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85			
CHIMOPOVI	6-2PW2	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85	20		
CHIMOPOVI												2121	0.097		2.56	20	15	0.24
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	POND	100	100		10	10000	2.296	1	12.08			
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	TANK			24	6	452	0.062	1	0.55	20		
EAST DINNEBITO	6-3ED2	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
EAST DINNEBITO												10625	2.366		12.83	40	54	0.85
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	POND			60	12	2827	0.779	1	3.41			
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	TANK			14	5	154	0.018	1	0.19	20		
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	TROUGH	28	1.5		1.5	42	0.001	1	0.05			
FIVE HOUSES	6-1F3	28N	19E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	POND			60	10	2827	0.649	1	3.41			
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	TANK			30	4	707	0.065	1	0.85	20		
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	TROUGH	20	3	2		60	0.000	1	0.07			
FIVE HOUSES	6-1F5	28N	16E	GW	SW	WELL	TANK			16	5	201	0.023	1	0.24			
FIVE HOUSES	6-1F5	28N	16E	GW	SW	WELL	TROUGH	20	3		3	60	0.004	1	0.07			
FIVE HOUSES	6-1F6	28N	16E	GW	SW	WELL	POND			100	5	7854	0.902	1	9.48			

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WELL AND SPRING LOCATIONS FOR PRESENT STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Q gpm	Cattle	C.U. acft
FIVE HOUSES	6-1F6	28N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
FIVE HOUSES	6-1F7	28N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	C. TANK			20	6	0	0.000	1	0.00			
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	POND	150	150		16	22500	8.264	1	27.17			
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	TROUGH	26	3		2	78	0.004	1	0.09			
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	C. TANK			14	12	0	0.000	1	0.00	20		
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	DRINKER			8	3	50	0.003	1	0.06			
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	DRINKER	24	3		2	72	0.003	1	0.09			
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	POND			50	10	1963	0.451	1	2.37			
FIVE HOUSES	FH-W1	27N	19E	GW	SW	WELL	TROUGH	8	3.5		2	28	0.001	1	0.03			
FIVE HOUSES	FH-W2	27N	19E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
FIVE HOUSES												39724	11.181		47.97	160	172	2.70
HARDROCK	6-1H1	28N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06			
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	C. TANK			20	10	0	0.000	2	0.00	20		
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	POND			50	8	1963	0.361	2	2.00			
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	POND			80	12	5027	1.385	2	5.12			
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	TROUGH	24	3		1.5	72	0.002	2	0.07			
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	TROUGH	50	1.5		1.5	75	0.003	2	0.08			
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	DRINKER			8	3	50	0.003	2	0.05			
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	POND			50	10	1963	0.451	2	2.00			
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	TANK			30	6	707	0.097	2	0.72	20		
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	TROUGH	24	3		2	72	0.003	2	0.07			
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	POND			50	8	1963	0.361	2	2.00			
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	TANK			20	6	314	0.043	2	0.32	20		
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	2	0.06			
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	C. TANK			16	10	0	0.000	2	0.00	20		
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	POND	180	180		20	32400	14.876	2	33.00			
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06			
HARDROCK	6-1H7	30N	17E	GW	SW	WELL	TANK			30	4	707	0.065	2	0.72	20		
HARDROCK	6-1H7	30N	17E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	2	0.06			
HARDROCK	HA-W1	30N	17E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06			
HARDROCK												45620	17.664		46.47	100	220	3.45
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	POND			50	6	1963	0.270	1	2.37			
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TANK			16	8	201	0.037	1	0.24	20		
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TROUGH	30	3		2	90	0.004	1	0.11			
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TROUGH	54	1.5		1.5	81	0.003	1	0.10			
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	POND	70	70		8	4900	0.900	1	5.92			
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	POND	70	70		8	4900	0.900	1	5.92			
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TANK			40	6	1257	0.173	1	1.52	20		
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	DRINKER			20	2	314	0.014	1	0.38			
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	TANK			10	6	79	0.011	1	0.09			
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	TROUGH	20	3		2	60	0.003	1	0.07			

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WELL AND SPRING LOCATIONS FOR PRESENT STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max gpm	Cattle	C.U. acft
NORTH ORAIBI												13965	2.321		16.86	40	197	3.09
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	POND			100	6	7854	1.082	1	9.48			
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TANK			10	12	79	0.022	1	0.09	20		
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	POND			100	8	7854	1.442	1	9.48			
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	POND			70	6	3848	0.530	1	4.65			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24	20		
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
POLACCA WASH	6-2PW5	27N	17E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
POLACCA WASH	6-2PW5	27N	17E	GW	SW	WELL	TANK			24	4	452	0.042	1	0.55	20		
POLACCA WASH												36315	7.500		43.85	80	166	2.61
SHONTO	6-3S1	27N	15E	GW	SW	WELL	POND	100	100		16	10000	3.673	1	12.08			
SHONTO	6-3S1	27N	15E	GW	SW	WELL	TANK			40	4	1257	0.115	1	1.52	20		
SHONTO	6-3S1	27N	15E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	1	0.10			
SHONTO	6-3S2	27N	14E	GW	SW	WELL	C. TANK			12	12	0	0.000	1	0.00	20		
SHONTO	6-3S2	27N	14E	GW	SW	WELL	POND			60	10	2827	0.649	1	3.41			
SHONTO	6-3S2	27N	14E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SHONTO	6-3S3	27N	14E	GW	SW	WELL	C. TANK			12	12	0	0.000	1	0.00	20		
SHONTO	6-3S3	27N	14E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
SHONTO	6-3S3	27N	14E	GW	SW	WELL	POND	80	80		12	6400	1.763	1	7.73			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			6	2	28	0.001	1	0.03			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			6	2	28	0.001	1	0.03			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	TANK			24	5	452	0.052	1	0.55	20		
SHONTO	SH-W5	27N	15E	GW	SW	WELL	TROUGH	20	2		2	40	0.002	1	0.05			
SHONTO												21406	6.274		25.85	80	189	2.97
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	POND			50	10	1963	0.451	1	2.37			
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	TANK			24	4	452	0.042	1	0.55	20		
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	POND			120	16	11310	4.154	1	13.66			
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	TANK			8	8	50	0.009	1	0.06	20		
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	6-3S03	28N	16E	GW	SW	WELL	POND			100	10	7854	1.803	1	9.48			
SOUTH ORAIBI	6-3S03	28N	16E	GW	SW	WELL	TANK			20	2	314	0.014	1	0.38	20		
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	POND			100	8	7854	1.442	1	9.48			
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	TANK			36	4	1018	0.093	1	1.23	20		
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	SO-W6	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
SOUTH ORAIBI	SO-W7	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		

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WELL AND SPRING LOCATIONS FOR PRESENT STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Cattle	C.U. acft
SOUTH ORAIBI												31125	8.023		37.58	120	31	0.49
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	POND			100	10	7854	1.803	1	9.48			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK			30	4	707	0.065	1	0.85			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK			8	10	50	0.012	1	0.06			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	POND			60	6	2827	0.389	1	3.41			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	POND			50	8	1963	0.361	1	2.37			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	TANK			10	6	79	0.011	1	0.09			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	TROUGH	40	3		2	120	0.006	1	0.14			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	BOX	4	4		4	16	0.001	1	0.02			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	TROUGH	40	2	1.5		80	0.000	1	0.10			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	DRINKER			8	3	50	0.003	1	0.06			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	POND	180	180		20	32400	14.876	1	39.12			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
TALAHOGAN												86531	26.745		104.49	80	399	6.26
TOREVA	6-1H5	29N	17E	GW	SW	WELL	TANK			30	7	707	0.114	1	0.85	20		
TOREVA	6-1H5	29N	17E	GW	SW	WELL	TROUGH	32	3		2	96	0.004	1	0.12			
TOREVA	6-2PW1	28N	18E	GW	SW	WELL	C. TANK			12	20	0	0.000	1	0.00			
TOREVA	6-2PW1	28N	18E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
TOREVA	SP	29N	17E	GW	SW	SPG.BOX	TROUGH	32	3		2	96	0.004	1	0.12			
TOREVA												962	0.125		1.16	20	26	0.41
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	DRINKER			20	2	314	0.014	1	0.38	20		
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	POND	100	100		10	10000	2.296	1	12.08			
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	TANK			20	2	314	0.014	1	0.38			
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	DRINKER			16	2	201	0.009	1	0.24			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	POND			30	2	707	0.032	1	0.85			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	POND			100	20	7854	3.606	1	9.48			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	TANK			16	4.5	201	0.021	1	0.24	20		
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
TOREVA MESA												19852	6.023		23.97	40	217	3.41
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	2	0.00	20		
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	POND			200	20	31416	14.424	2	32.00			

WELL AND SPRING LOCATIONS FOR PRESENT STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Q gpm	Cattle	C.U. acft
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	TROUGH	24	3		2	72	0.003	2	0.07			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	POND	100	100		10	10000	2.296	2	10.19			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	POND			200	20	31416	14.424	2	32.00			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	TANK			16	5	201	0.023	2	0.20	20		
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	TROUGH	27	2		20	54	0.025	2	0.06			
UPPER POLACCA	SP	28N	20E	GW	SW	SPG.BOX	TANK			20	2	314	0.014	2	0.32	20		
UPPER POLACCA	SP	28N	20E	GW	SW	SPG.BOX	TANK			20	2	314	0.014	2	0.32	20		
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	POND			180	16	25447	9.347	2	25.92			
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09	20		
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09			
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09			
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	POND	180	180		20	32400	14.876	2	33.00			
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	2	0.06	20		
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	TROUGH	40	3		2	120	0.006	2	0.12			
UPPER POLACCA												132066	55.466		134.52	120	126	1.98
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	C. TANK			8	10	0	0.000	1	0.00	20		
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	POND			40	10	1257	0.288	1	1.52			
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	TANK			10	12	79	0.022	1	0.09			
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
WEST DINNEBITO	6-3WD2	29N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
WEST DINNEBITO												1455	0.316		1.76	40	68	1.07
TOTAL OF PRESENT STOCK WELLS IN DISTRIC 6												465048	151.1		528.0	1100	2312	36.3

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PRESENT STOCK POND LOCATION AND WATER CLAIM FOR HOPI DISTRICT 6

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	EVAP Zone	Evap. acft	Cattle	Wildl. acft	To Cl
BLUE POINT	BP-E10	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E11	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E12	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E2	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E3	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E4	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E5	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E6	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E7	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E8	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E9	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	TOTAL										110000	25.253		11.06	244	3.83	1
BURRO SPRINGS	BS-E10	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E11	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E12	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E13	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E14	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E15	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E16	26N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E17	26N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E18	27N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E19	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E20	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E21	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E22	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E23	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E24	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E25	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E26	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E5	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E6	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E7	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E8	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E9	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	TOTAL										220000	50.505		22.12	435	6.83	7
CHIMOPOVI	SP-E1	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E2	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E3	28N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E4	28N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	TOTAL										40000	9.183		4.02	21	0.33	
EAST DINNEBITO	ED-E10	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E2	28N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E3	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E4	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	acft		acft	T C
EAST DINNEBITO	ED-E5	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E6	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E7	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E8	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E9	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	TOTAL										90000	20.661		9.05	121	1.90	1
FIVE HOUSES	FH-E10	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E11	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E12	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E13	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E14	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E15	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E16	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E17	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E18	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E19	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E20	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E21	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E21	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E22	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E23	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E24	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E25	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E26	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E27	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E28	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E29	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E30	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E32	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E33	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E34	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E35	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E36	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E37	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E38	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E39	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E6	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E7	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E8	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E9	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	TOTAL										340000	78.053		33.56	255	4.00	3
HARDROCK	HA-E6	30N	17E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			

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September 20, 1985

REPLY TO:
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Gentlemen:

Transmitted herewith is a summary of the reserved water right claims for the Navajo and Hopi Indian Reservations from the water sources of the Little Colorado River basin. The claims, which include both agricultural and non-agricultural water uses, are summarized below.

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Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Zone	Evap acft	Cattle	C.U. acft	To Cl
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	28N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	TOTAL										240000	55.096		20.39	277	4.35	2
NORTH ORAIBI	NO-E10	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E11	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E12	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E13	30N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E14	20N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E4	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E5	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E6	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E7	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E8	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E9	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	TOTAL										110000	25.253		11.06	180	2.83	1
POLACCA WASH	PW-E10	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E11	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E12	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E13	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E6	27N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E7	27N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E8	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E9	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	TOTAL										80000	18.365		8.04	102	1.60	
SHONTO	SH-E10	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
SHONTO	SH-E11	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
SHONTO	SH-E12	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			

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Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap	Evap acft	Cattle	C.U. acft
SHONTO	SH-E13	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E14	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E15	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E16	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E17	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E18	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E19	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E3	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E4	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E5	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E6	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E7	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E8	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E9	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	TOTAL										170000	39.027		17.09	230	3.61
SOUTH ORAIBI	SO-E10	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E5	29N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E5	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E6	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E7	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E8	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E9	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	TOTAL										70000	16.070		7.04	17	0.27
TALAHOGAN	TN-E10	27N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E11	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E12	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E13	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E14	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E15	26N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E16	26N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E17	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E6	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E6	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E7	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E8	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E9	27N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TOTAL										130000	29.844		13.07	226	3.55
TOREVA	TA-E1	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E2	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E3	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E4	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E5	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TOTAL										50000	11.478		5.03	26	0.41

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TOREVA MESA	TM-E10	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E11	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E12	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E13	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E14	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E15	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E16	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E17	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E18	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E3	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E4	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E4	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E5	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E6	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E7	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E8	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TM-E9	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA MESA	TOTAL										170000	39.027		17.09	411	6.45
UPPER POLACCA	UP-E10	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E11	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E12	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E13	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E14	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E15	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E16	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E17	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E18	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E19	30N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E20	30N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E21	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E22	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E5	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E6	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E7	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E8	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	UP-E9	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85		
UPPER POLACCA	TOTAL										180000	41.322		15.29	142	2.23
WEST DINNEBITO	WD-E2	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E3	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E4	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E5	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E6	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E7	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E8	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
WEST DINNEBITO	WD-E9	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		

PRESENT STOCK POND LOCATION AND WATER CLAIM FOR HOPI DISTRICT 6

Range Unit	Label	Twnshp Range	Source	Use Div. Type	Storage Length Width Depth Type	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	C.U. acft
WEST DINNEBITO TOTAL						80000	18.365		8.04	109	1.71
TOTAL OF PRESENT STOCK PONDS IN DISTRIC 6						2E+06	477.5		202.0	2796	43.9

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consump Use	Total Deplet
251	1K-239	33N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
251	1K-239	33N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
251	NEE DE MISE BETOH	33.5N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
251	NEE DE MISE BETOH	33.5N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
251	RED LAKE 4	33.5N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
251	RED LAKE 4	33.5N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1	20	.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	16	4		2	64	0.003	1		0.01			
251	SIDE ROCK II	33N	13E	GW	SW	WELL	C.TANK	8	8		8	64	0.012	1	20	0.00			
251	SIDE ROCK II	33N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
251	Total											1314	0.277		100	0.03	149	2.3	2.4
252	BITTER SPRING	33N	14E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	1	20	0.00			
252	BITTER SPRING	33N	14E	GW	SW	SPRING	TROUGH	10	2		1	20	.000	1		.00			
252	UNNAMED RED	33N	14E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
252	UNNAMED RED	33N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
252	Total											545	0.133		40	0.01	26	0.4	0.4
253	BASE OF COTTONWOOD	33N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
253	BASE OF COTTONWOOD	33N	15E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
253	Total											31	0.007		20	.00	10	0.2	0.2
254	ZT-503	34N	16E	GW	SW	WELL	TANK			10	12	79	0.022	2	20	0.01			
254	ZT-503	34N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
254	Total											127	0.023		20	0.01	16	0.3	0.3
255	2-7-1	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	2-7-2	29N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	2-7-3	29N	14E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
255	2-7-3	29N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	2-7-4	32N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
255	2-7-4	32N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3K-330	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3K-330	31N	13E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
255	3K-330	31N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3K-332	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
255	3K-345	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3K-345	31N	13E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
255	3K-345	31N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3M-156	31N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3M-156	31N	14E	GW	SW	WELL	TANK			40	5	1257	0.144	1		0.13			
255	3M-156	31N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3M-159 A1	31N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
255	3M-159 A1	31N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			

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Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Net Q	Evap acft	Cattle	Other Use	Tota Depl
255	3M-159 A1	31N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
255	3M-159 A2	31N	14E	GW	SW	SPRING	C.TANK	8	8		8	64	0.012	1	20	0.00			
255	3M-159 A2	31N	14E	GW	SW	SPRING	TANK	12	2		1	24	0.001	1		.00			
255	BADGER SPRING	31N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
255	BADGER SPRING	31N	14E	GW	SW	SPRING	POND	50	50		4	2500	0.230	1		0.25			
255	NEZ SPRING	31N	13E	GW	SW	SPRING	C.TANK			10	8	79	0.014	1	20	0.00			
255	NEZ SPRING	31N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
255	Total											18673	2.271		240	1.77	287	4.5	6.
256	2-8-1	31N	15E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
256	2-8-1	31N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	2-8-2	30N	15E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
256	2-8-2	30N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	2-8-344B	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	2-8-344B	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	3K-311	30N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
256	3K-311	30N	14E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
256	3K-311	30N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	3K-344	30N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
256	3K-344	30N	14E	GW	SW	WELL	TANK			30	6	707	0.097	1		0.07			
256	3K-344	30N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	BLUE CANYON WELL	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	BLUE CANYON WELL	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	FLAT WASH SPRING	30N	14E	GW	SW	SPRING	C.TANK	6	6		8	36	0.007	1	20	0.00			
256	FLAT WASH SPRING	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	TIS YA TOH	31N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	TIS YA TOH	31N	15E	GW	SW	SPRING	TROUGH	16	2		2	32	0.001	1		.00			
256	WILLOW SPRING	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	WILLOW SPRING	30N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
256	Total											7528	1.037		180	0.65	183	2.9	3.
257	257-E3	32N	16E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	257-E4	31N	15E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	257-E5	31N	15E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	4K-383	31N	15E	GW	SW	WELL	TANK			32	8	804	0.148	1	20	0.08			
257	4K-383	31N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	4K-391	32N	15E	GW	SW	WELL	TANK			8	12	50	0.014	1	20	0.01			
257	4K-391	32N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	4M-123 #1	31N	16E	GW	SW	SPRING	C.TANK	10	10		10	100	0.023	1	20	0.00			
257	4M-123 #1	31N	16E	GW	SW	SPRING	TROUGH	12	1		1	12	.000	1		.00			
257	4M-123 #2	31N	16E	GW	SW	SPRING	C.TANK	10	10		10	100	0.023	1	20	0.00			
257	4M-123 #2	31N	16E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	1		.00			
257	4T-393	31N	15E	GW	SW	WELL	TANK			8	12	50	0.014	1	20	0.01			
257	4T-393	31N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	COTTON WOOD SPRING	32N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	COTTON WOOD SPRING	32N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	DEAD DOG TOH AH CHI	31N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	DEAD DOG TOH AH CHI	31N	16E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			

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Range Unit	Label	Tnship	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max gpm	Evap acft	Consump	Consump Use	Total Deplet
257	HAND BUILT POND	31N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	HAND BUILT POND	31N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	NAKAI YAZZIE	32N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	NAKAI YAZZIE	32N	16E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	TOH HONI NI TOH	31N	16E	GW	SW	SPRING	C.TANK	8	8		8	64	0.012	1	20	0.00			
257	TOH HONI NI TOH	31N	16E	GW	SW	SPRING	TROUGH	21	1		1	21	.000	1		.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	C.TANK	16	3		4	48	0.004	1	20	0.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1		0.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
257	Total											9203	1.131		280	0.88	298	4.7	5.6
258	2-13-1	30N	16E	GW	SW	WELL	TANK			24	12	452	0.125	1	20	0.05			
258	2-13-1	30N	16E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	C. TANK	5	5		8	25	0.005	1	20	0.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	C. TANK	4	4		3	16	0.001	1		0.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
258	Total											541	0.131		40	0.05	37	0.6	0.6
259	2-11-1	32N	16E	GW	SW	WELL	TANK			24	12	452	0.125	2	20	0.04			
259	2-11-1	32N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	259-E1	32N	15E	GW	SW	SPRING	POND	75	75		5	5625	0.646	2	20	0.48			
259	259-E2	32N	16E	GW	SW	SPRING	POND	50	50		5	2500	0.287	2	20	0.21			
259	259-E2	32N	16E	GW	SW	SPRING	POND	50	50		5	2500	0.287	2		0.21			
259	4K-384	32N	16E	GW	SW	WELL	TANK			8	12	50	0.014	2	20	.00			
259	4K-384	32N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	4T-515	32N	15E	GW	SW	WELL	TANK			8	12	50	0.014	2	20	.00			
259	4T-515	32N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	HORSE SPRING	32N	16E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	2	20	0.00			
259	HORSE SPRING	32N	16E	GW	SW	SPRING	TROUGH	8	1		1	8	.000	2		.00			
259	NAKAI YAZZIE	32N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
259	NAKAI YAZZIE	32N	15E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
259	SWEETWATER	33N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
259	SWEETWATER	33N	16E	GW	SW	SPRING	TROUGH	5	2		1	10	.000	2		.00			
259	Total											11421	1.395		160	0.96	197	3.1	4.1
260	4M-144 A	33N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	4M-144 A	33N	16E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
260	SAND SPRING	33N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	SAND SPRING	33N	15E	GW	SW	SPRING	TROUGH	5	1		1	5	.000	2		.00			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
260	Total											92	0.021		60	.00	112	1.8	1.8
261	RED WILLOW	33.5N	17E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
261	RED WILLOW	33.5N	17E	GW	SW	SPRING	TROUGH	5	2		1	10	.000	2		.00			
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	C.TANK	4	4		8	16	0.003	2	20	0.00			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	[illegible] gpm	[illegible] acft	[illegible]	Consump Use	Total Deplet
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	TROUGH	5	1		1	5	.000	2		.00			
261	Total											56	0.010		40	.00	53	0.8	0.8
262	2-5-1	33N	17E	GW	SW	WELL	TANK			80	12	5027	1.385	2	20	0.43			
262	2-5-1	33N	17E	GW	SW	WELL	TROUGH	21	2		1.5	42	0.001	2		.00			
262	2-5-1	33N	17E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
262	262-E2 #2	33N	18E	GW	SW	WELL	POND	40	40		6	1600	0.220	2	20	0.14			
262	4T-395	33N	17E	GW	SW	WELL	TANK			50	9	1963	0.406	2	20	0.17			
262	BENALLY	32N	17E	GW	SW	SPRING	C.TANK	6	6		15	36	0.012	2	20	0.00			
262	BENALLY	32N	17E	GW	SW	SPRING	TROUGH	4	1		1	4	.000	2		.00			
262	BIG MTN.	32N	17E	GW	SW	SPRING	TANK	7	4		6	28	0.004	2	20	.00			
262	BIG MTN.	32N	17E	GW	SW	SPRING	TROUGH	10	2		1	20	.000	2		.00			
262	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	C.TANK	4	4		8	16	0.003	2	20	0.00			
262	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	TROUGH	15	2		1	30	0.001	2		.00			
262	Total											8790	2.033		120	0.74	28	0.4	1.2
263	4K-380	34N	17E	GW	SW	WELL	POND	50	50		4	2500	0.230	3	20	0.17			
263	4K-380	34N	17E	GW	SW	WELL	TANK			10	12	79	0.022	3		0.01			
263	4K-380	34N	17E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-405	34N	18E	GW	SW	WELL	C.TANK			10	12	79	0.022	3	20	0.00			
263	4T-405	34N	18E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-406	34N	18E	GW	SW	WELL	C.TANK			10	12	79	0.022	3	20	0.00			
263	4T-406	34N	18E	GW	SW	WELL	POND	50	50		4	2500	0.230	3		0.17			
263	4T-406	34N	18E	GW	SW	WELL	POND	50	50		4	2500	0.230	3		0.17			
263	4T-406	34N	18E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-511	33.5N	18E	GW	SW	WELL	POND	50	50		8	2500	0.459	3	20	0.17			
263	4T-511	33.5N	18E	GW	SW	WELL	TANK			10	12	79	0.022	3		0.01			
263	4T-511	33.5	18E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	3		.00			
263	BLACK HORSE	34N	17E	GW	SW	SPRING	C.TANK	6	5		12	30	0.008	3	20	0.00			
263	BLACK HORSE	34N	17E	GW	SW	SPRING	TROUGH	5	1.5		1	8	.000	3		.00			
263	COTTONWOOD	34N	17E	GW	SW	SPRING	C.TANK	6	5		12	30	0.008	3	20	0.00			
263	FLAT TOP SIDE	34N	17E	GW	SW	SPRING	C.TANK	6	5		10	30	0.007	3	20	0.00			
263	FLAT TOP SIDE	34N	17E	GW	SW	SPRING	TROUGH	6	1.5		1	9	.000	3		.00			
263	MANG SHEEP	33.5N	18E	GW	SW	SPRING	TANK	9	6		6	54	0.007	3	20	.00			
263	MANG SHEEP	33.5E	18E	GW	SW	SPRING	TROUGH	24	2		1	48	0.001	3		.00			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	C.TANK	4	4		12	16	0.004	3	20	0.00			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	POND	100	50		8	5000	0.918	3		0.35			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	3		.00			
263	Total											15731	2.194		180	1.08	192	3.0	4.1
351	4M-87	31N	18E	GW	SW	WELL	POND	75	75		3	5625	0.387	2	20	0.48			
351	4M-87	31N	18E	GW	SW	WELL	TANK			18	8	254	0.047	2		0.02			
351	4M-87	31N	18E	GW	SW	WELL	TROUGH	24	1.5		1	36	0.001	2		.00			
351	4M-87	31N	18E	GW	SW	WELL	TROUGH	27	2.5		1.5	68	0.002	2		0.01			
351	4M-89A	31N	18E	GW	SW	WELL	POND			95.5	2	7163	0.329	2	20	0.61			
351	4M-89A	31N	18E	GW	SW	WELL	TANK	27	13		6	351	0.048	2		0.03			
351	4M-89A	31N	18E	GW	SW	WELL	TROUGH	27	2.5		1	68	0.002	2		0.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Peak [illegible]	Evap [illegible]	[illegible]	Consump Use	Total Deple
351	CROOKED FINGER	31N	19E	GW	SW	SPRING	C.TANK			3.2	10	8	0.002	2	20	0.00			
351	HA TUN AKAHA BIT	31N	19E	GW	SW	SPRING	TANK	4	4		4	16	0.001	2	20	.00			
351	HA TUN AKAHA BIT	31N	19E	GW	SW	SPRING	TROUGH	4	2		1	8	.000	2		.00			
351	ROCK ROCK WELL	31N	19E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	2	20	0.00			
351	ROCK ROCK WELL	31N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	2		.00			
351	ROUGH ROCK SPRING	31N	19E	GW	SW	SPRING	C.TANK	10	8		8	80	0.015	2	20	0.00			
351	ROUGH ROCK SPRING	31N	19E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	2		.00			
351	UNDER ROCK	31N	19E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	2	20	0.00			
351	UNDER ROCK	31N	19E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	2		.00			
351	Total											13855	0.849		140	1.16	176	2.8	3.9
451	4M-70	30N	20E	GW	SW	SPRING	C.TANK	4	4		4	16	0.001	2	20	0.00			
451	4M-70	30N	20E	GW	SW	SPRING	TROUGH	24	1.5		1	36	0.001	2		.00			
451	Total											52	0.002		20	.00	28	0.4	0.4
551	3A-153	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
551	3K-320	28N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
551	3K-320	28N	13E	GW	SW	WELL	TANK			32	8	804	0.148	1		0.08			
551	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
551	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
551	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
551	3K-332	29N	13E	GW	SW	WELL	POND	50	50		4	2500	0.230	1	20	0.25			
551	3K-332	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
551	3K-332	29N	13E	GW	SW	WELL	TANK			30	8	707	0.130	1		0.07			
551	3K-332	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
551	3M-175	29N	13E	GW	SW	WELL	C.TANK			40	6	1257	0.173	1	20	0.00			
551	3M-175	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
551	3M-175	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
551	3M-176	30N	13E	GW	SW	WELL	C.TANK			27	8	573	0.105	1	20	0.00			
551	3M-176	30N	13E	GW	SW	WELL	C.TANK			10	1.9	79	0.003	1		0.00			
551	3M-176	30N	13E	GW	SW	WELL	POND	50	5		4	250	0.023	1		0.03			
551	3M-176	30N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
551	3M-176	30N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
551	551-1	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
551	551-1	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
551	551-1	29N	13E	GW	SW	WELL	TANK			24	20	452	0.208	1		0.05			
551	551-2	28N	13E	GW	SW	WELL	C.TANK			24	20	452	0.208	1	20	0.00			
551	551-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
551	HOOK SPRING	28N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
551	HOOK SPRING	28N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
551	Total											8240	1.381		160	0.54	423	6.6	7.2
552	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
552	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
552	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
552	3A-152	28N	13E	GW	SW	WELL	TANK			40	6	1257	0.173	1	20	0.13			
552	3A-152	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			

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Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Capacity gpm	Capacity acft	Consump Use	Total Deplet
552	3A-152	28N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00		
552	63-53	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01		
552	SALT WELL	26N	14E	GW	SW	SPRING	POND	6	4		2	24	0.001	1	20	.00		
552	SALT WELL	26N	14E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1		.00		
552	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00		
552	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00		
552	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00		
552	SAND SPRINGS	27N	13E	GW	SW	SPRING	C.TANK			10	8	79	0.014	1	20	0.00		
552	SWEET WATER	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00		
552	SWEET WATER	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00		
552	SWEET WATER WELL	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00		
552	UNNAMED SPRING	26N	14E	GW	SW	SPRING	POND	4	6		3	24	0.002	1	20	.00		
552	WHISKEY	27N	13E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00		
552	Total											2003	0.227		200	0.19	121	1.9	2.1
553	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01		
553	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01		
553	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01		
553	RED ROCK WELL	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00		
553	RED ROCK WELL	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00		
553	SAND VALLEY	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00		
553	SAND VALLEY	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00		
553	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00		
553	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00		
553	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1		0.00		
553	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00		
553	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00		
553	UNNAMED WELL	26N	14E	GW	SW	SPRING	POND	4	4		3	16	0.001	1	20	.00		
553	Total											497	0.043		120	0.04	56	0.9	0.9
554	554-E6	27N	13E	GW	SW	SPRING	POND	50	50		5	2500	0.287	1	20	0.25		
554	5M-1	27N	13E	GW	SW	SPRING	TANK			6	8	28	0.005	1	20	.00		
554	5M-1	27N	13E	GW	SW	SPRING	TROUGH			10	1.9	79	0.003	1		0.01		
554	5M-1	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00		
554	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00		
554	SANDSPRINGS	27N	13E	GW	SW	SPRING	TANK			10	1.9	79	0.003	1	20	0.01		
554	Total											2733	0.300		80	0.28	33	0.5	0.8
555	555-1	25N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00		
555	555-1	25N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00		
555	5K-330	25N	15E	GW	SW	WELL	TANK			10	2	79	0.004	1	20	0.01		
555	Total											128	0.009		40	0.01	31	0.5	0.5
556	5K-330	25N	15E	GW	SW	WELL	C.TANK			20	8	314	0.058	1	20	0.00		
556	5K-330	25N	16E	GW	SW	WELL	POND	75	75		5	5625	0.646	1		0.57		
556	5K-330	25N	15E	GW	SW	WELL	TROUGH			10	2	79	0.004	1		0.01		

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Range Unit	Label	Tnship	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consump Use	Total Deplet
556	Total											6018	0.707		20	0.57	24	0.4	1.0
557	557-1	25N	18E	GW	SW	SPRING	TROUGH			10	1.7	79	0.003	1	20	0.01	14	0.2	0.2
558	DOG WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
558	DOG WELL	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
558	KALBITO SPRING	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
558	SEBA DALKAI	25N	18E	GW	SW	SPRING	TANK	5	5		8	25	0.005	1	20	.00			
558	SEBA DALKAI	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
558	Total											146	0.011		60	0.01	36	0.6	0.6
559	7H-233	25N	19E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1	20	.00			
559	7H-233	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
559	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
559	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
559	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	CROWN POINT WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
559	CROWN POINT WELL	25N	18E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
559	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1		0.00			
559	HORSE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1	20	0.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
559	SHANETOH SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1	20	0.00			
559	SHANETOH SPRING	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
559	TT5-2	25N	19E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
559	TT5-2	25N	19E	GW	SW	SPRING	TROUGH	16	1		1	16	.000	1		.00			
559	UNNAMED	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
559	Total											625	0.073		160	0.03	115	1.8	1.8
561	7T-520	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00	5	0.1	0.1
562	562-E8	26N	19E	GW	SW	WELL	POND	75	75		8	5625	1.033	1	20	0.57			
562	562-E9	26N	19E	GW	SW	WELL	POND	50	50		4	2500	0.230	1	20	0.25			
562	7A-5-A2	26N	19E	GW	SW	WELL	C.TANK			20	14	314	0.101	1	20	0.00			
562	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
562	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
562	7K-355	26N	20E	GW	SW	WELL	C.TANK			10	10	79	0.018	1	20	0.00			
562	7K-355	26N	20E	GW	SW	WELL	TROUGH	24	2		2	48	0.002	1		.00			
562	7T-504	26N	19E	GW	SW	WELL	C.TANK			7.5	14	44	0.014	1	20	0.00			
562	7T-504	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
562	PRIVATE WELL	26N	19E	GW	SW	WELL	C.TANK			6	6	28	0.004	1	20	0.00			
562	PRIVATE WELL	26N	19E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			

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Range Unit	Label	Tnship	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max G gpm	Evap acft	Cattle	Consump Use	Total Deple
562	Total											8806	1.406		120	0.84	184	2.9	3.7
563	563-E1	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
563	563-E3	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
563	563-E4	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
563	7H-5A-4	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00			
563	7K-355	26N	20E	GW	SW	WELL	TANK			33	8	855	0.157	1	20	0.09			
563	7K-355	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
563	7K-363	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00			
563	7T-520	26N	20E	GW	SW	WELL	TANK			33.4	8	876	0.161	1	20	0.09			
563	7T-520	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
563	Total											9423	1.183		140	0.95	147	2.3	3.3
565	7H-5A4	26N	20E	GW	SW	WELL	C.TANK			20	12	314	0.087	1	20	0.00			
565	7H-5A4	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1		0.25			
565	7H-5A4	26N	20E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
565	7K-363	26N	20E	GW	SW	WELL	C.TANK			20	14	314	0.101	1	20	0.00			
565	7K-363	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1		0.25			
565	7K-363	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
565	Total											5700	0.763		40	0.51	156	2.4	3.0
566	7H-5A7A1	26N	22E	GW	SW	WELL	C.TANK			18	14	254	0.082	2	20	0.00			
566	7H-5A7A1	26N	22E	GW	SW	WELL	TROUGH	20	2		1	40	0.001	2		.00			
566	7H-5A7A2	26N	22E	GW	SW	WELL	TROUGH	20	2		1	40	0.001	2	20	.00			
566	Total											334	0.084		40	0.01	4	0.1	0.1
567	567-E3	26N	21E	GW	SW	WELL	POND	50	50		4	2500	0.230	2	20	0.21			
567	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
567	7T-519	26N	21E	GW	SW	WELL	TANK			25	8	491	0.090	2	20	0.04			
567	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
567	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
567	Total											3135	0.323		60	0.27	114	1.8	2.1
568	7H-5A-6	27N	22E	GW	SW	WELL	C.TANK			18	14	254	0.082	2	20	0.00			
568	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
568	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
568	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
568	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
568	Total											446	0.086		40	0.02	194	3.0	3.1
569	#19	28N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
569	7H-37	27N	22E	GW	SW	WELL	POND	50	50		5	2500	0.287	2	20	0.21			
569	7H-37	27N	22E	GW	SW	WELL	TANK			25	8	491	0.090	2		0.04			
569	7H-37	27N	22E	GW	SW	WELL	TROUGH	32	2		1	64	0.001	2		0.01			

Stockwater well and spring locations and present use for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consump Use	Total Deplet.
569	Total											3103	0.380		40	0.26	93	1.5	1.7
570	SH-27 P29	28N	22E	GW	SW	SPRING	TANK	4	4		4	16	0.001	2	20	.00			
570	SH-27 P29	28N	22E	GW	SW	SPRING	TROUGH	26.5	2.5		1	66	0.002	2		0.01			
570	7H-27	28N	22E	GW	SW	SPRING	TANK	7	7		8	49	0.009	2	20	.00			
570	7K-371	28N	22E	GW	SW	WELL	POND	75	50		3	3750	0.258	2	20	0.32			
570	7K-371	28N	22E	GW	SW	WELL	TANK			24	12	452	0.125	2		0.04			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2	20	.00			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2		.00			
570	Total											4370	0.396		80	0.37	38	0.6	1.0
571	7H-26	28N	21E	GW	SW	SPRING	TANK			4	15	13	0.004	2	20	.00			
571	7H-26	28N	21E	GW	SW	SPRING	TROUGH	19	1.5		1.5	29	0.001	2		.00			
571	7K-371	28N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
571	Total											89	0.006		40	0.01	77	1.2	1.2
572	7K-364	28N	21E	GW	SW	WELL	C.TANK			8	12	50	0.014	2	20	0.00			
572	7K-364	28N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
572	Total											74	0.014		20	.00	49	0.8	0.8
573	20	29N	21E	GW	SW	WELL	TANK			20	12	314	0.087	2	20	0.03			
573	20	29N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
573	Total											338	0.087		20	0.03	34	0.5	0.6
Total of present stockwater wells and springs in HPL												144293	18.998		3160	12.30	3740	58.7	71.0

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Stockpond locations and present use for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consump Use	Total Deplet.
Z51	Z51-E14	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E5	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E1	33.5N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E3	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E7	33N	13E	BEGASHIBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z51	Z51-E8	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E6	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E10	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E4	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Z51-E13	33N	13E	BEGASHIBITO	SP	DAM	POND	50	50	5	2500	0.29	1	0.25			
Z51	Z51-E11	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E9	33N	13E	BEGASHIBITO	SP	DAM	POND	75	50	10	3750	0.86	1	0.38			
Z51	Z51-E12	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z51	Z51-E2	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Total										88125	11.45		8.87	173	2.7	11.6
Z52	Z52-E8	34N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E2	33N	14E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z52	Z52-E6	33.5N	15E	MOENKOPI	SP	DAM	POND	150	150	6	22500	3.10	2	1.91			
Z52	Z52-E5	33.5N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E7	34N	15E	MOENKOPI	SP	DAM	POND	75	75	5	5625	0.65	2	0.48			
Z52	Z52-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z52	Z52-E3	33.5N	14E	MOENKOPI	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
Z52	Z52-E4	33.5N	14E	MOENKOPI	SP	DAM	POND	150	100	4	15000	1.38	1	1.51			
Z52	Total										184375	9.97		7.50	53	0.8	8.3
Z53	Z53-E2	33N	13E	MOENKOPI	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
Z53	Z53-E12	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E10	32N	14E	MOENKOPI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z53	Z53-E15	33N	15E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	2	0.48			
Z53	Z53-E5	32N	14E	MOENKOPI	SP	DAM	POND	150	100	8	15000	2.75	1	1.51			
Z53	Z53-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z53	Z53-E6	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E13	33N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z53	Z53-E14	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E7	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E11	33N	15E	MOENKOPI	SP	DAM	POND	75	50	5	3750	0.43	2	0.32			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E9	32N	14E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
Z53	Z53-E4	33N	14E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	1	0.25			
Z53	Z53-E3	33N	14E	MOENKOPI	SP	DAM	POND	100	75	8	7500	1.38	1	0.75			
Z53	Total										108750	15.44		10.58	77	1.2	11.8
Z54	Z54-E2	33.5N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z54	Z54-E3	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			
Z54	Z54-E1	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			

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Stockpond locations and present use for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Cooper Use	Total Deplet.
254	Total										17500	1.95		1.49	24	0.4	1.9
255	255-E12	30N	13E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
255	255-E13	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
255	255-E4	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
255	255-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
255	255-E19	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
255	255-E14	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
255	255-E8	29N	14E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
255	255-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
255	255-E19	30N	13E	BLUE CANYON	SP	DAM	POND	125	50	4	6250	0.57	1	0.63			
255	255-E3	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
255	255-E11	29N	13E	BLUE CANYON	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
255	255-E6	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
255	255-E18	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
255	255-E1	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
255	255-E2	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
255	255-E7	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
255	255-E17	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
255	255-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
255	255-E3	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
255	255-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
255	255-E16	30N	13E	BLUE CANYON	SP	DAM	POND	150	75	8	11250	2.07	1	1.13			
255	255-E9	30N	14E	BLUE CANYON	SP	DAM	POND	150	50	8	7500	1.38	1	0.75			
255	255-E20	30N	12E	BLUE CANYON	SP	DAM	POND	80	80	8	6400	1.18	1	0.64			
255	255-E10	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
255	255-E5	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
255	Total										217650	44.79		21.90	287	4.5	26.4
256	256-E2	30N	14E	DINNEBITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
256	256-E14	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
256	256-E11	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
256	256-E1	30N	14E	DINNEBITO	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
256	256-E7	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
256	256-E5	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
256	256-E13	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	8	10000	1.84	1	1.01			
256	256-E19	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
256	256-E3	30N	14E	DINNEBITO	SP	DAM	POND	150	50	10	7500	1.72	1	0.75			
256	256-E18	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
256	256-E16	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
256	256-E17	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
256	256-E10	30N	15E	BLUE CANYON	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
256	256-E6	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
256	256-E9	30N	15E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
256	256-E8	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
256	256-E12	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
256	256-E15	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
256	256-E4	30N	15E	DINNEBITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01			

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Stockpond locations and present use for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Pct	Consump Use	Total Deplet.
256	Total										170000	29.87		17.11	174	2.7	19.8
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	100	50	4	5000	0.46	1	0.50			
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	125	125	5	15625	1.79	1	1.57			
257	257-E2	30N	16E	DINNEBITO	SP	DAM	POND	150	75	10	11250	2.58	1	1.13			
257	Total										31875	4.84		3.21	34	0.5	3.7
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	200	75	4	15000	1.38	1	1.51			
258	258-E2	30N	17E	ORAIBI	SP	DAM	POND	200	75	5	15000	1.72	1	1.51			
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
258	258-E3	30N	16E	DINNEBITO	SP	DAM	POND	250	200	5	50000	5.74	1	5.03			
258	258-E4	30N	17E	DINNEBITO	SP	DAM	POND	300	300	3	90000	6.20	1	9.06			
258	Total										180000	18.25		18.11	37	0.6	18.7
259	259-E5	32N	15E	MOENKOPI	SP	DAM	POND	100	75	4	7500	0.69	2	0.64			
259	259-E3	33N	16E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	2	0.42			
259	259-E4	32N	16E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	2	0.85			
259	Total										22500	3.56		1.91	40	0.6	2.5
261	261-E1	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E2	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E3	33.5N	16E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
261	Total										45625	4.19		3.87	39	0.6	4.5
262	262-E6	32N	17E	DINNEBITO	SP	DAM	POND	1500	100	10	150000	34.44	2	12.73			
262	262-E8	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E9	32N	13E	DINNEBITO	SP	DAM	POND	125	125	10	15625	3.59	2	1.33			
262	262-E2 #1	33.5N	18E	DINNEBITO	SP	DAM	POND	300	100	10	30000	6.89	2	2.55			
262	262-E14	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E1	33N	18E	DINNEBITO	SP	DAM	POND	1500	50	12	75000	20.66	2	6.37			
262	262-E11	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E13	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E5	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E7	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E12	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E10	32N	17E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	2	0.85			
262	262-E3	33N	18E	DINNEBITO	SP	DAM	POND	125	100	6	12500	1.72	2	1.06			
262	262-E4	33N	18E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	Total										375625	83.13		31.89	35	0.5	32.4
263	263 E4	34N	18E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	3	0.70	9	0.1	0.8
351	351-E2	31N	18E	ORAIBI	SP	DAM	POND	100	100	3	10000	0.69	2	0.85			
351	351-E4	30N	18E	ORAIBI	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			

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Stockpond locations and present use for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume actt	Zone	[illegible] actt	[illegible]	Consump Use	Total Deplet.
351	351-E1	30N	17E	ORAIBI	SP	DAM	POND	200	150	3	30000	2.07	2	2.55			
351	351-E3	31N	18E	ORAIBI	SP	DAM	POND	200	50	3	10000	0.69	2	0.85			
351	Total										70000	4.82		5.94	44	0.7	6.6
451	451-E1	30N	19E	POLACCA	SP	DAM	POND	500	300	4	150000	13.77	2	12.73			
451	451-E3	30N	20E	POLACCA	SP	DAM	POND	500	400	3	200000	13.77	2	16.98			
451	451-E2	30N	19E	POLACCA	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			
451	Total										370000	28.93		31.41	43	0.7	32.1
551	551-E1	29N	13E	DINNEBITO	SP	DAM	POND	100	100	7	10000	1.61	1	1.01			
551	551-E2	29N	13E	DINNEBITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02			
551	551-E5	28N	14E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
551	551-E8	28N	13E	DINNEBITO	SP	DAM	POND	150	150	8	22500	4.13	1	2.26			
551	551-E3	29N	13E	DINNEBITO	SP	DAM	POND	150	150	5	22500	2.58	1	2.26			
551	551-E4	29N	13E	DINNEBITO	SP	DAM	POND	600	500	6	300000	41.32	1	30.19			
551	551-E7	28N	13E	DINNEBITO	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
551	551-E6	28N	14E	DINNEBITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
551	Total										437500	63.76		44.02	135	2.1	46.1
552	552-E5	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E6	27N	14E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
552	552-E4	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E1	27N	13E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
552	552-E2	27N	13E	DINNEBITO	SP	DAM	POND	150	100	6	15000	2.07	1	1.51			
552	552-E3	27N	13E	DINNEBITO	SP	DAM	POND	100	200	6	20000	2.75	1	2.01			
552	Total										95625	22.87		9.62	41	0.6	10.3
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E2	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	1000	1000	3	1000000	68.87	1	100.62			
553	553-E3	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E1	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	500	100	5	50000	5.74	1	5.03			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E4	26N	15E	ORAIBI	SP	DAM	POND	50	75	10	3750	0.86	1	0.38			
553	Total										1166250	109.30		117.35	39	0.6	118.0
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	600	150	14	90000	28.93	1	9.06			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	200	100	4	20000	1.84	1	2.01			
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	225	225	16	50625	18.60	1	5.09			
554	554-E4	26N	13E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
554	554-E2	26N	13E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	400	100	4	40000	3.67	1	4.02			

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Stockpond locations and present use for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Share	Consump Use	Total Deplet.
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	600	200	5	120000	13.77	1	12.07			
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	Total										353125	84.54		38.55	55	0.9	39.4
555	555-E7	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E3	25N	15E	ORAIBI	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	500	75	5	37500	4.30	1	3.77			
555	555-E4	29N	15E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	4	40000	3.67	1	4.02			
555	555-E1	25N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
555	555-E5	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
555	Total										205000	38.97		20.63	102	1.6	22.2
556	556-E3	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	556-E1	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	Total										30000	3.44		3.02	16	0.3	3.3
557	557-E2	25N	17E	JEDDITO	SP	DAM	POND	75	50	6	3750	0.52	1	0.38	14	0.2	0.6
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
558	558-E1	25N	18E	JEDDITO	SP	DAM	POND	80	50	5	4000	0.46	1	0.40			
558	558-E2	25N	18E	JEDDITO	SP	DAM	POND	70	50	5	3500	0.40	1	0.35			
558	Total										27500	5.22		2.77	28	0.4	3.2
559	559-E2	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	559-E3	25N	19E	JEDDITO	SP	DAM	POND	80	40	5	3200	0.37	1	0.32			
559	559-E1	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	Total										18200	2.09		1.83	16	0.3	2.1
560	560-E1	25N	20E	JEDDITO	SP	DAM	POND	100	100	5	10000	1.15	1	1.01	36	0.6	1.6
561	561-E1	25N	21E	JEDDITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02	6	0.1	4.1
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E6	26N	19E	JEDDITO	SP	DAM	POND	80	50	4	4000	0.37	1	0.40			
562	562-E1	26N	19E	JEDDITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E5	26N	19E	JEDDITO	SP	DAM	POND	75	75	4	5625	0.52	1	0.57			
562	562-E7	26N	20E	JEDDITO	SP	DAM	POND	80	80	5	6400	0.73	1	0.64			

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Stockpond locations and present use for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Stock use	Total Deplet.
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50		
562	562-E3	26N	19E	JEDDITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57		
562	Total										57275	10.87		5.76	150	2.4	8.1
563	563-E2	26N	20E	JEDDITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01	15.00	0.2	2.2
566	566-E5	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34		
566	566-E6	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34		
566	566-E7	27N	22E	BESHBITO	SP	DAM	POND	40	30	10	1200	0.28	2	0.10		
566	566-E4	26N	22E	BESHBITO	SP	DAM	POND	100	100	14	10000	3.21	2	0.85		
566	566-E2	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42		
566	566-E3	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42		
566	566-E1	26N	22E	BESHBITO	SP	DAM	POND	200	100	10	20000	4.59	2	1.70		
566	Total										49200	11.39		4.18	8	0.1	4.3
567	567-E1	28N	21E	HA-WHI-YALIN	SP	DAM	POND	100	100	14	10000	3.21	2	0.85		
567	567-E2	27N	21E	HA-WHI-YALIN	SP	DAM	POND	100	100	8	10000	1.84	2	0.85		
567	Total										20000	5.05		1.70	46	0.7	2.4
570	570-E1	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58		
570	570-E5	28N	21E	JEDDITO	SP	DAM	POND	500	300	4	150000	13.77	2	12.73		
570	570-E2	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58		
570	570-E3	27N	22E	JEDDITO	SP	DAM	POND	250	150	4	37500	3.44	2	3.18		
570	570-E4	28N	22E	JEDDITO	SP	DAM	POND	200	100	4	20000	1.84	2	1.70		
570	Total										527500	41.09		44.78	27	0.4	45.2
571	571-E1	28N	22E	JEDDITO	SP	DAM	POND	800	500	8	400000	73.46	2	33.96		
571	571-E2	28N	22E	JEDDITO	SP	DAM	POND	500	100	4	50000	4.59	2	4.24		
571	Total										450000	78.05		38.20	52	0.8	39.0
572	572-E1	29N	21E	JEDDITO	SP	DAM	POND	750	200	4	150000	13.77	2	12.73		
572	572-E2	28N	22E	JEDDITO	SP	DAM	POND	1000	800	4	800000	73.46	2	67.92		
572	Total										950000	87.24		80.65	49	0.8	81.4
573	573-E1	29N	21E	TSE CHIZZI	SP	DAM	POND	250	75	3	18750	1.29	2	1.59		
573	573-E2	29N	21E	TSE CHIZZI	SP	DAM	POND	500	200	4	100000	9.18	2	8.49		
573	Total										118750	10.47		10.08	34	0.5	10.6
Total present stockponds in HPL											6479200	844.22		593.12	1938	30.4	625.5

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WELL AND SPRING LOCATIONS FOR FUTURE STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	[illegible] acft	[illegible] gpm	[illegible]	C.U. acft
BLUE POINT	6-3BP1	28N	14E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
BLUE POINT	6-3BP1	28N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	C. TANK			16	10	0	0.000	1	0.00	20		
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	POND			40	10	1257	0.288	1	1.52			
BLUE POINT	6-3BP2	27N	14E	GW	SW	WELL	TROUGH			30	2	707	0.032	1	0.85			
BLUE POINT	6-3BP3	27N	14E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
BLUE POINT	6-3BP3	27N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
BLUE POINT												2241	0.363		2.71	60	152	2.39
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	POND			60	5	2827	0.325	1	3.41			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TANK			20	6	314	0.043	1	0.38	20		
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
BURRO SPRINGS	6-2B2	27N	16E	GW	SW	WELL	TROUGH	48	2		1	96	0.002	1	0.12			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	POND			40	12	1257	0.346	1	1.52			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24	20		
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TROUGH	18	3		2	54	0.002	1	0.07			
BURRO SPRINGS	6-2B3	26N	16E	GW	SW	WELL	TROUGH	18	3		2	54	0.002	1	0.07			
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	C. TANK			16	10	0	0.000	1	0.00	20		
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	POND			100	20	7854	3.606	1	9.48			
BURRO SPRINGS	6-2B6	27N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
BURRO SPRINGS	6-2C1	27N	16E	GW	SW	WELL	TANK			16	10	201	0.046	1	0.24	20		
BURRO SPRINGS	SPRING	26N	15E	GW	SW	SPRING	TANK			16	10	201	0.046	1	0.24	20		
BURRO SPRINGS												21039	6.617		25.41	100	354	5.56
CHIMOPOVI	6-2B1	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85			
CHIMOPOVI	6-2B1	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85			
CHIMOPOVI	6-2PW2	27N	17E	GW	SW	WELL	DRINKER			30	2	707	0.032	1	0.85	20		
CHIMOPOVI												2121	0.097		2.56	20	117	1.84
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	POND	100	100		10	10000	2.296	1	12.08			
EAST DINNEBITO	6-3ED1	29N	14E	GW	SW	WELL	TANK			24	6	452	0.062	1	0.55	20		
EAST DINNEBITO	6-3ED2	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
EAST DINNEBITO												10625	2.366		12.83	40	99	1.55
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	POND			60	12	2827	0.779	1	3.41			
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	TANK			14	5	154	0.018	1	0.19	20		
FIVE HOUSES	6-1F2	28N	20E	GW	SW	WELL	TROUGH	28	1.5		1.5	42	0.001	1	0.05			
FIVE HOUSES	6-1F3	28N	19E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	POND			60	10	2827	0.649	1	3.41			
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	TANK			30	4	707	0.065	1	0.85	20		
FIVE HOUSES	6-1F4	28N	19E	GW	SW	WELL	TROUGH	20	3	2		60	0.000	1	0.07			
FIVE HOUSES	6-1F5	28N	16E	GW	SW	WELL	TANK			16	5	201	0.023	1	0.24			
FIVE HOUSES	6-1F5	28N	16E	GW	SW	WELL	TROUGH	20	3		3	60	0.004	1	0.07			
FIVE HOUSES	6-1F6	28N	16E	GW	SW	WELL	POND			100	5	7854	0.902	1	9.48			

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WELL AND SPRING LOCATIONS FOR FUTURE STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tunshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Q gpm	Cattle	D. acft
NORTH ORAIBI												13965	2.321		16.86	40	185	2.90
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	POND			100	6	7854	1.082	1	9.48			
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TANK			10	12	79	0.022	1	0.09	20		
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
POLACCA WASH	6-2BB1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	POND			100	8	7854	1.442	1	9.48			
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	TANK			10	10	79	0.018	1	0.09	20		
POLACCA WASH	6-2BB2	27N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	POND			70	6	3848	0.530	1	4.65			
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24	20		
POLACCA WASH	6-2PW3	26N	17E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
POLACCA WASH	6-2PW5	27N	17E	GW	SW	WELL	POND			100	12	7854	2.164	1	9.48			
POLACCA WASH	6-2PW5	27N	17E	GW	SW	WELL	TANK			24	4	452	0.042	1	0.55	20		
POLACCA WASH												36315	7.500		43.85	80	614	9.64
SHONTO	6-3S1	27N	15E	GW	SW	WELL	POND	100	100		16	10000	3.673	1	12.08			
SHONTO	6-3S1	27N	15E	GW	SW	WELL	TANK			40	4	1257	0.115	1	1.52	20		
SHONTO	6-3S1	27N	15E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	1	0.10			
SHONTO	6-3S2	27N	14E	GW	SW	WELL	C. TANK			12	12	0	0.000	1	0.00	20		
SHONTO	6-3S2	27N	14E	GW	SW	WELL	POND			60	10	2827	0.649	1	3.41			
SHONTO	6-3S2	27N	14E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SHONTO	6-3S3	27N	14E	GW	SW	WELL	C. TANK			12	12	0	0.000	1	0.00	20		
SHONTO	6-3S3	27N	14E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
SHONTO	6-3S3	27N	14E	GW	SW	WELL	POND	80	80		12	6400	1.763	1	7.73			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			12	2	113	0.005	1	0.14			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			6	2	28	0.001	1	0.03			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	DRINKER			6	2	28	0.001	1	0.03			
SHONTO	SH-W4	27N	15E	GW	SW	WELL	TANK			24	5	452	0.052	1	0.55	20		
SHONTO	SH-W5	27N	15E	GW	SW	WELL	TROUGH	20	2		2	40	0.002	1	0.05			
SHONTO												21406	6.274		25.85	80	364	5.71
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	POND			50	10	1963	0.451	1	2.37			
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	TANK			24	4	452	0.042	1	0.55	20		
SOUTH ORAIBI	6-3S01	28N	16E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	POND			120	16	11310	4.154	1	13.66			
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	TANK			8	8	50	0.009	1	0.06	20		
SOUTH ORAIBI	6-3S02	28N	15E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	6-3S03	28N	16E	GW	SW	WELL	POND			100	10	7854	1.803	1	9.48			
SOUTH ORAIBI	6-3S03	28N	16E	GW	SW	WELL	TANK			20	2	314	0.014	1	0.38	20		
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	POND			100	8	7854	1.442	1	9.48			
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	TANK			36	4	1018	0.093	1	1.23	20		
SOUTH ORAIBI	6-3S04	28N	15E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
SOUTH ORAIBI	SO-W6	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
SOUTH ORAIBI	SO-W7	28N	15E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		

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WELL AND SPRING LOCATIONS FOR FUTURE STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max # Cattle	GW acft
FIVE HOUSES	6-1F6	28N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20	
FIVE HOUSES	6-1F7	28N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20	
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20	
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	C. TANK			20	6	0	0.000	1	0.00		
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	POND	150	150		16	22500	8.264	1	27.17		
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	TROUGH	26	3		2	78	0.004	1	0.09		
FIVE HOUSES	6-1F8	28N	20E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07		
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	C. TANK			14	12	0	0.000	1	0.00	20	
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	DRINKER			8	3	50	0.003	1	0.06		
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	DRINKER	24	3		2	72	0.003	1	0.09		
FIVE HOUSES	6-1F9	27N	19E	GW	SW	WELL	POND			50	10	1963	0.451	1	2.37		
FIVE HOUSES	FH-W1	27N	19E	GW	SW	WELL	TROUGH	8	3.5		2	28	0.001	1	0.03		
FIVE HOUSES	FH-W2	27N	19E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20	
FIVE HOUSES												39724	11.181		47.97	160	274 4.30
HARDROCK	6-1H1	28N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06		
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	C. TANK			20	10	0	0.000	2	0.00	20	
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	POND			50	8	1963	0.361	2	2.00		
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	POND			80	12	5027	1.385	2	5.12		
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	TROUGH	24	3		1.5	72	0.002	2	0.07		
HARDROCK	6-1H2	30N	18E	GW	SW	WELL	TROUGH	50	1.5		1.5	75	0.003	2	0.08		
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	DRINKER			8	3	50	0.003	2	0.05		
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	POND			50	10	1963	0.451	2	2.00		
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	TANK			30	6	707	0.097	2	0.72	20	
HARDROCK	6-1H3	30N	18E	GW	SW	WELL	TROUGH	24	3		2	72	0.003	2	0.07		
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	POND			50	8	1963	0.361	2	2.00		
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	TANK			20	6	314	0.043	2	0.32	20	
HARDROCK	6-1H4	30N	17E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	2	0.06		
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	C. TANK			16	10	0	0.000	2	0.00	20	
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	POND	180	180		20	32400	14.876	2	33.00		
HARDROCK	6-1H6	29N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06		
HARDROCK	6-1H7	30N	17E	GW	SW	WELL	TANK			30	4	707	0.065	2	0.72	20	
HARDROCK	6-1H7	30N	17E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	2	0.06		
HARDROCK	HA-W1	30N	17E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	2	0.06		
HARDROCK												45620	17.664		46.47	100	545 8.56
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	POND			50	6	1963	0.270	1	2.37		
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TANK			16	8	201	0.037	1	0.24	20	
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TROUGH	30	3		2	90	0.004	1	0.11		
NORTH ORAIBI	6-3N01	29N	16E	GW	SW	WELL	TROUGH	54	1.5		1.5	81	0.003	1	0.10		
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	POND	70	70		8	4900	0.900	1	5.92		
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	POND	70	70		8	4900	0.900	1	5.92		
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TANK			40	6	1257	0.173	1	1.52	20	
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07		
NORTH ORAIBI	6-3N02	30N	16E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07		
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	DRINKER			20	2	314	0.014	1	0.38		
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	TANK			10	6	79	0.011	1	0.09		
NORTH ORAIBI	SP	29N	16E	GW	SW	SPG.BOX	TROUGH	20	3		2	60	0.003	1	0.07		

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WELL AND SPRING LOCATIONS FOR FUTURE STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Hauling gpm	Estimated	Y.O. acft
SOUTH ORAIBI												31125	8.023		37.58	120	308	4.84
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	POND			100	10	7854	1.803	1	9.48			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK			30	4	707	0.065	1	0.85			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK			8	10	50	0.012	1	0.06			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TANK	100	100		10	10000	2.296	1	12.08			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
TALAHOGAN	6-IT1	27N	18E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	POND			60	6	2827	0.389	1	3.41			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	POND			50	8	1963	0.361	1	2.37			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	TANK			10	6	79	0.011	1	0.09			
TALAHOGAN	6-IT2	26N	19E	GW	SW	WELL	TROUGH	40	3		2	120	0.006	1	0.14			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	BOX	4	4		4	16	0.001	1	0.02			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24			
TALAHOGAN	6-IT3	26N	18E	GW	SW	WELL	TROUGH	40	2	1.5		80	0.000	1	0.10			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	1	0.00	20		
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	DRINKER			8	3	50	0.003	1	0.06			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	POND	180	180		20	32400	14.876	1	39.12			
TALAHOGAN	6-IT4	27N	19E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
TALAHOGAN												86531	26.745		104.49	80	710	11.15
TOREVA	6-1H5	29N	17E	GW	SW	WELL	TANK			30	7	707	0.114	1	0.85	20		
TOREVA	6-1H5	29N	17E	GW	SW	WELL	TROUGH	32	3		2	96	0.004	1	0.12			
TOREVA	6-2PW1	28N	18E	GW	SW	WELL	C. TANK			12	20	0	0.000	1	0.00			
TOREVA	6-2PW1	28N	18E	GW	SW	WELL	TROUGH	21	3		2	63	0.003	1	0.08			
TOREVA	SP	29N	17E	GW	SW	SPG.BOX	TROUGH	32	3		2	96	0.004	1	0.12			
TOREVA												962	0.125		1.16	20	121	1.90
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	DRINKER			20	2	314	0.014	1	0.38	20		
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	POND	100	100		10	10000	2.296	1	12.08			
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	TANK			20	2	314	0.014	1	0.38			
TOREVA MESA	6-2B5	25N	16E	GW	SW	WELL	TANK			16	6	201	0.028	1	0.24			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	DRINKER			16	2	201	0.009	1	0.24			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	POND			30	2	707	0.032	1	0.85			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	POND			100	20	7854	3.606	1	9.48			
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	TANK			16	4.5	201	0.021	1	0.24	20		
TOREVA MESA	6-2PW4	26N	16E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	1	0.07			
TOREVA MESA												19852	6.023		23.97	40	190	2.98
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	C. TANK			16	12	0	0.000	2	0.00	20		
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	POND			200	20	31416	14.424	2	32.00			

WELL AND SPRING LOCATIONS FOR FUTURE STOCKWATER USE, HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Max Q gpm	Cattle	C.U. acft
UPPER POLACCA	6-1P1	29N	19E	GW	SW	WELL	TROUGH	24	3		2	72	0.003	2	0.07			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	POND	100	100		10	10000	2.296	2	10.19			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	POND			200	20	31416	14.424	2	32.00			
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	TANK			16	5	201	0.023	2	0.20	20		
UPPER POLACCA	6-1P2	28N	20E	GW	SW	WELL	TROUGH	27	2		20	54	0.025	2	0.06			
UPPER POLACCA	SP	28N	20E	GW	SW	SPG.BOX	TANK			20	2	314	0.014	2	0.32	20		
UPPER POLACCA	SP	28N	20E	GW	SW	SPG.BOX	TANK			20	2	314	0.014	2	0.32	20		
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	POND			180	16	25447	9.347	2	25.92			
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09	20		
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09			
UPPER POLACCA	UP-W4	28N	20E	GW	SW	WELL	TROUGH	28	3		2	84	0.004	2	0.09			
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	POND	180	180		20	32400	14.876	2	33.00			
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	TROUGH	40	1.5		1.5	60	0.002	2	0.06	20		
UPPER POLACCA	UP-W5	28N	19E	GW	SW	WELL	TROUGH	40	3		2	120	0.006	2	0.12			
UPPER POLACCA												132066	55.466		134.52	120	504	7.91
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	C. TANK			8	10	0	0.000	1	0.00	20		
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	POND			40	10	1257	0.288	1	1.52			
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	TANK			10	12	79	0.022	1	0.09			
WEST DINNEBITO	6-3WD1	29N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07			
WEST DINNEBITO	6-3WD2	29N	14E	GW	SW	WELL	TROUGH	20	3		2	60	0.003	1	0.07	20		
WEST DINNEBITO												1455	0.316		1.76	40	97	1.52
TOTAL OF PRESENT STOCK WELLS IN DISTRIC 6												465048	151.1		528.0	1100	4634	72.8

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FUTURE STOCK POND LOCATION AND WATER CLAIM FOR HOPI DISTRICT 6

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Zone	Evap	Cr	C.U. acft	T C
BLUE POINT	BP-E10	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E11	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E12	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E2	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E3	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E4	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E5	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E6	27N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E7	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E8	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	BP-E9	28N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BLUE POINT	TOTAL										110000	25.253		11.06	240	3.77	1
BURRO SPRINGS	BS-E10	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E11	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E12	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E13	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E14	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E15	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E16	26N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E17	26N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E18	27N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E19	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E20	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E21	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E22	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E23	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E24	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E25	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E26	27N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E5	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E6	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E7	26N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E8	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	BS-E9	26N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
BURRO SPRINGS	TOTAL										220000	50.505		22.12	556	8.73	3
CHIMOPOVI	SP-E1	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E2	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E3	28N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	SP-E4	28N	16E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
CHIMOPOVI	TOTAL										40000	9.183		4.02	156	2.45	
EAST DINNEBITO	ED-E10	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E2	28N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E3	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E4	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Crop Acre	C.U. acft	T C
EAST DINNEBITO	ED-E5	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E6	29N	15E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E7	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E8	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	ED-E9	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
EAST DINNEBITO	TOTAL										90000	20.661		9.05	224	3.52	1
FIVE HOUSES	FH-E10	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E11	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E12	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E13	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E14	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E15	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E16	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E17	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E18	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E19	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E20	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E21	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E21	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E22	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E23	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E24	27N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E25	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E26	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E27	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E28	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E29	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E30	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E32	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E33	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E34	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E35	28N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E36	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E37	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E38	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E39	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
FIVE HOUSES	FH-E6	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E7	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E8	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	FH-E9	28N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
FIVE HOUSES	TOTAL										340000	78.053		33.56	405	6.36	
HARDROCK	HA-E6	30N	17E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			

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Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Catch acft	Ind. acft	To Cl
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	19E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	28N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	29N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	HA-E6	30N	18E	WEPO	SP	DAM	POND	100	100	10	10000	2.296	2	0.85			
HARDROCK	TOTAL										240000	55.096		20.39	689	10.82	3:
NORTH ORAIBI	NO-E10	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E11	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E12	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E13	30N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E14	20N	17E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E4	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E5	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E6	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E7	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E8	30N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	NO-E9	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
NORTH ORAIBI	TOTAL										110000	25.253		11.06	170	2.67	1:
POLACCA WASH	PW-E10	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E11	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E12	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E13	26N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E6	27N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E7	27N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E8	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	PW-E9	27N	18E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
POLACCA WASH	TOTAL										80000	18.365		8.04	378	5.93	1:
SHONTO	SH-E10	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
SHONTO	SH-E11	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			
SHONTO	SH-E12	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	[illegible]	C.U. acft
SHONTO	SH-E13	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E14	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E15	27N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E16	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E17	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E18	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E19	26N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E3	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E4	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E5	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E6	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E7	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E8	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	SH-E9	27N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SHONTO	TOTAL										170000	39.027		17.09	443	6.96
SOUTH ORAIBI	SO-E10	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E5	29N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E5	29N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E6	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E7	28N	16E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E8	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	SO-E9	28N	15E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
SOUTH ORAIBI	TOTAL										70000	16.070		7.04	166	2.61
TALAHOGAN	TN-E10	27N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E11	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E12	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E13	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E14	26N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E15	26N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E16	26N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E17	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E6	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E6	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E7	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E8	27N	19E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TN-E9	27N	18E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TALAHOGAN	TOTAL										130000	29.844		13.07	402	6.31
TOREVA	TA-E1	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E2	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E3	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E4	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TA-E5	28N	17E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	1	1.01		
TOREVA	TOTAL										50000	11.478		5.03	121	1.90

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FUTURE STOCK POND LOCATION AND WATER CLAIM FOR HOPI DISTRICT 6

Range Unit	Label	Tnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft				Tc Cl
TOREVA MESA	TM-E10	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E11	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E12	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E13	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E14	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E15	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E16	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E17	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E18	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E3	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E4	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E4	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E5	25N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E6	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E7	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E8	26N	17E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TM-E9	26N	16E	JEDDITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
TOREVA MESA	TOTAL										170000	39.027		17.09	360	5.65		2:
UPPER POLACCA	UP-E10	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E11	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E12	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E13	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E14	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E15	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E16	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E17	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E18	29N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E19	30N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E20	30N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E21	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E22	28N	20E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E5	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E6	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E7	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E8	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	UP-E9	29N	19E	POLACCA	SP	DAM	POND	100	100	10	10000	2.296	2	0.85				
UPPER POLACCA	TOTAL										180000	41.322		15.29	566	8.89		2
WEST DINNEBITO	WD-E2	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E3	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E4	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E5	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E6	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E7	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E8	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				
WEST DINNEBITO	WD-E9	29N	14E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.296	1	1.01				

FUTURE STOCK POND LOCATION AND WATER CLAIM FOR HOPI DISTRICT 6

Range Unit	Label	Twnshp Range	Source	Use Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	C.U. acft	Tc Cl
WEST DINNEBITO TOTAL									80000	18.365		8.04	154	2.42	1C
TOTAL OF PRESENT STOCK PONDS IN DISTRIC 6									2E+06	477.5		202.0	5030	79.0	2E

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Future use of present stockwater wells and springs for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consum Use	Total Deplet.
251	1K-239	33N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
251	1K-239	33N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
251	NEE DE MISE BETOH	33.5N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
251	NEE DE MISE BETOH	33.5N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
251	RED LAKE 4	33.5N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
251	RED LAKE 4	33.5N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1	20	.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
251	SAND SPRING	32N	13E	GW	SW	SPRING	TROUGH	16	4		2	64	0.003	1		0.01			
251	SIDE ROCK II	33N	13E	GW	SW	WELL	C.TANK	8	8		8	64	0.012	1	20	0.00			
251	SIDE ROCK II	33N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
251	Total											1314	0.277		100	0.03	234	3.7	3.7
252	BITTER SPRING	33N	14E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	1	20	0.00			
252	BITTER SPRING	33N	14E	GW	SW	SPRING	TROUGH	10	2		1	20	.000	1		.00			
252	UNNAMED RED	33N	14E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
252	UNNAMED RED	33N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
252	Total											545	0.133		40	0.01	66	1.0	1.0
253	BASE OF COTTONWOOD	33N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
253	BASE OF COTTONWOOD	33N	15E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
253	Total											31	0.007		20	.00	26	0.4	0.4
254	ZT-503	34N	16E	GW	SW	WELL	TANK			10	12	79	0.022	2	20	0.01			
254	ZT-503	34N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
254	Total											127	0.023		20	0.01	47	0.7	0.7
255	2-7-1	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	2-7-2	29N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	2-7-3	29N	14E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
255	2-7-3	29N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	2-7-4	32N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
255	2-7-4	32N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3K-330	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3K-330	31N	13E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
255	3K-330	31N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3K-332	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
255	3K-345	31N	13E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3K-345	31N	13E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
255	3K-345	31N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3M-156	31N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
255	3M-156	31N	14E	GW	SW	WELL	TANK			40	5	1257	0.144	1		0.13			
255	3M-156	31N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
255	3M-159 A1	31N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
255	3M-159 A1	31N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap actt	Cattle Use	Consume	Total Deplet.
255	3M-159 A1	31N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
255	3M-159 A2	31N	14E	GW	SW	SPRING	C.TANK	8	8		8	64	0.012	1	20	0.00			
255	3M-159 A2	31N	14E	GW	SW	SPRING	TANK	12	2		1	24	0.001	1		.00			
255	BADGER SPRING	31N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
255	BADGER SPRING	31N	14E	GW	SW	SPRING	POND	50	50		4	2500	0.230	1		0.25			
255	NEZ SPRING	31N	13E	GW	SW	SPRING	C.TANK			10	8	79	0.014	1	20	0.00			
255	NEZ SPRING	31N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
255	Total											18673	2.271		240	1.77	531	8.3	10.1
256	2-8-1	31N	15E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
256	2-8-1	31N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	2-8-2	30N	15E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
256	2-8-2	30N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	2-8-344B	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	2-8-344B	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	3K-311	30N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
256	3K-311	30N	14E	GW	SW	WELL	TANK			24	8	452	0.083	1		0.05			
256	3K-311	30N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	3K-344	30N	14E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
256	3K-344	30N	14E	GW	SW	WELL	TANK			30	6	707	0.097	1		0.07			
256	3K-344	30N	14E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
256	BLUE CANYON WELL	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	BLUE CANYON WELL	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	FLAT WASH SPRING	30N	14E	GW	SW	SPRING	C.TANK	6	6		8	36	0.007	1	20	0.00			
256	FLAT WASH SPRING	30N	14E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
256	TIS YA TOH	31N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	TIS YA TOH	31N	15E	GW	SW	SPRING	TROUGH	16	2		2	32	0.001	1		.00			
256	WILLOW SPRING	30N	14E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
256	WILLOW SPRING	30N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
256	Total											7528	1.037		180	0.65	424	6.7	7.3
257	257-E3	32N	16E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	257-E4	31N	15E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	257-E5	31N	15E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
257	4K-363	31N	15E	GW	SW	WELL	TANK			32	8	804	0.148	1	20	0.08			
257	4K-363	31N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	4K-391	32N	15E	GW	SW	WELL	TANK			8	12	50	0.014	1	20	0.01			
257	4K-391	32N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	4M-123 #1	31N	16E	GW	SW	SPRING	C.TANK	10	10		10	100	0.023	1	20	0.00			
257	4M-123 #1	31N	16E	GW	SW	SPRING	TROUGH	12	1		1	12	.000	1		.00			
257	4M-123 #2	31N	16E	GW	SW	SPRING	C.TANK	10	10		10	100	0.023	1	20	0.00			
257	4M-123 #2	31N	16E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	1		.00			
257	4T-393	31N	15E	GW	SW	WELL	TANK			8	12	50	0.014	1	20	0.01			
257	4T-393	31N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
257	COTTON WOOD SPRING	32N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	COTTON WOOD SPRING	32N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	DEAD DOG TOH AH CHI	31N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	DEAD DOG TOH AH CHI	31N	16E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			

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Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consum Use	Total Deplet.
257	HAND BUILT POND	31N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	HAND BUILT POND	31N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	NAKAI YAZZIE	32N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
257	NAKAI YAZZIE	32N	16E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
257	TOH HONI NI TOH	31N	16E	GW	SW	SPRING	C.TANK	8	8		8	64	0.012	1	20	0.00			
257	TOH HONI NI TOH	31N	16E	GW	SW	SPRING	TROUGH	21	1		1	21	.000	1		.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	C.TANK	16	3		4	48	0.004	1	20	0.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1		0.00			
257	WHITE CAVE SPRING	30N	16E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
257	Total											9203	1.131		280	0.88	574	9.0	9.9
258	2-13-1	30N	16E	GW	SW	WELL	TANK			24	12	452	0.125	1	20	0.05			
258	2-13-1	30N	16E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	C. TANK	5	5		8	25	0.005	1	20	0.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	C. TANK	4	4		3	16	0.001	1		0.00			
258	UNNAMED	30N	17E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
258	Total											541	0.131		40	0.05	96	1.5	1.6
259	2-11-1	32N	16E	GW	SW	WELL	TANK			24	12	452	0.125	2	20	0.04			
259	2-11-1	32N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	259-E1	32N	15E	GW	SW	SPRING	POND	75	75		5	5625	0.646	2	20	0.48			
259	259-E2	32N	16E	GW	SW	SPRING	POND	50	50		5	2500	0.287	2	20	0.21			
259	259-E2	32N	16E	GW	SW	SPRING	POND	50	50		5	2500	0.287	2		0.21			
259	4K-384	32N	16E	GW	SW	WELL	TANK			8	12	50	0.014	2	20	.00			
259	4K-384	32N	16E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	4T-515	32N	15E	GW	SW	WELL	TANK			8	12	50	0.014	2	20	.00			
259	4T-515	32N	15E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
259	HORSE SPRING	32N	16E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	2	20	0.00			
259	HORSE SPRING	32N	16E	GW	SW	SPRING	TROUGH	8	1		1	8	.000	2		.00			
259	NAKAI YAZZIE	32N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
259	NAKAI YAZZIE	32N	15E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
259	SWEETWATER	33N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
259	SWEETWATER	33N	16E	GW	SW	SPRING	TROUGH	5	2		1	10	.000	2		.00			
259	Total											11421	1.395		160	0.96	308	4.8	5.8
260	4M-144 A	33N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	4M-144 A	33N	16E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
260	SAND SPRING	33N	15E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	SAND SPRING	33N	15E	GW	SW	SPRING	TROUGH	5	1		1	5	.000	2		.00			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	TROUGH	6	1		1	6	.000	2		.00			
260	Total											92	0.021		60	.00	95	1.5	1.5
261	RED WILLOW	33.5N	17E	GW	SW	SPRING	C.TANK	5	5		12	25	0.007	2	20	0.00			
261	RED WILLOW	33.5N	17E	GW	SW	SPRING	TROUGH	5	2		1	10	.000	2		.00			
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	C.TANK	4	4		8	16	0.003	2	20	0.00			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consumptive Use	Total Deplet.
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	TROUGH	5	1		1	5	.000	2		.00			
261	Total											56	0.010		40	.00	70	1.1	1.1
262	2-5-1	33N	17E	GW	SW	WELL	TANK			80	12	5027	1.385	2	20	0.43			
262	2-5-1	33N	17E	GW	SW	WELL	TROUGH	21	2		1.5	42	0.001	2		.00			
262	2-5-1	33N	17E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
262	262-EZ #2	33N	18E	GW	SW	WELL	POND	40	40		6	1600	0.220	2	20	0.14			
262	4T-395	33N	17E	GW	SW	WELL	TANK			50	9	1963	0.406	2	20	0.17			
262	BENALLY	32N	17E	GW	SW	SPRING	C.TANK	6	6		15	36	0.012	2	20	0.00			
262	BENALLY	32N	17E	GW	SW	SPRING	TROUGH	4	1		1	4	.000	2		.00			
262	BIG MTN.	32N	17E	GW	SW	SPRING	TANK	7	4		6	28	0.004	2	20	.00			
262	BIG MTN.	32N	17E	GW	SW	SPRING	TROUGH	10	2		1	20	.000	2		.00			
262	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	C.TANK	4	4		8	16	0.003	2	20	0.00			
262	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	TROUGH	15	2		1	30	0.001	2		.00			
262	Total											8790	2.033		120	0.74	103	1.6	2.4
263	4K-380	34N	17E	GW	SW	WELL	POND	50	50		4	2500	0.230	3	20	0.17			
263	4K-380	34N	17E	GW	SW	WELL	TANK			10	12	79	0.022	3		0.01			
263	4K-380	34N	17E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-405	34N	18E	GW	SW	WELL	C.TANK			10	12	79	0.022	3	20	0.00			
263	4T-405	34N	18E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-406	34N	18E	GW	SW	WELL	C.TANK			10	12	79	0.022	3	20	0.00			
263	4T-406	34N	18E	GW	SW	WELL	POND	50	50		4	2500	0.230	3		0.17			
263	4T-406	34N	18E	GW	SW	WELL	POND	50	50		4	2500	0.230	3		0.17			
263	4T-406	34N	18E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	3		.00			
263	4T-511	33.5N	18E	GW	SW	WELL	POND	50	50		8	2500	0.459	3	20	0.17			
263	4T-511	33.5N	18E	GW	SW	WELL	TANK			10	12	79	0.022	3		0.01			
263	4T-511	33.5	18E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	3		.00			
263	BLACK HORSE	34N	17E	GW	SW	SPRING	C.TANK	6	5		12	30	0.008	3	20	0.00			
263	BLACK HORSE	34N	17E	GW	SW	SPRING	TROUGH	5	1.5		1	8	.000	3		.00			
263	COTTONWOOD	34N	17E	GW	SW	SPRING	C.TANK	6	5		12	30	0.008	3	20	0.00			
263	FLAT TOP SIDE	34N	17E	GW	SW	SPRING	C.TANK	6	5		10	30	0.007	3	20	0.00			
263	FLAT TOP SIDE	34N	17E	GW	SW	SPRING	TROUGH	6	1.5		1	9	.000	3		.00			
263	MANG SHEEP	33.5N	18E	GW	SW	SPRING	TANK	9	6		6	54	0.007	3	20	.00			
263	MANG SHEEP	33.5E	18E	GW	SW	SPRING	TROUGH	24	2		1	48	0.001	3		.00			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	C.TANK	4	4		12	16	0.004	3	20	0.00			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	POND	100	50		8	5000	0.918	3		0.35			
263	SAGEBRUSH	35N	18E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	3		.00			
263	Total											15731	2.194		180	1.08	365	5.7	6.8
351	4M-87	31N	18E	GW	SW	WELL	POND	75	75		3	5625	0.387	2	20	0.48			
351	4M-87	31N	18E	GW	SW	WELL	TANK			18	8	254	0.047	2		0.02			
351	4M-87	31N	18E	GW	SW	WELL	TROUGH	24	1.5		1	36	0.001	2		.00			
351	4M-87	31N	18E	GW	SW	WELL	TROUGH	27	2.5		1.5	68	0.002	2		0.01			
351	4M-89A	31N	18E	GW	SW	WELL	POND			95.5	2	7163	0.329	2	20	0.61			
351	4M-89A	31N	18E	GW	SW	WELL	TANK	27	13		6	351	0.048	2		0.03			
351	4M-89A	31N	18E	GW	SW	WELL	TROUGH	27	2.5		1	68	0.002	2		0.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Cattle Use	Total Deplet.
351	CROOKED FINGER	31N	19E	GW	SW	SPRING	C.TANK			3.2	10	8	0.002	2	20	0.00			
351	HA TUN AKAHA BIT	31N	19E	GW	SW	SPRING	TANK	4	4		4	16	0.001	2	20	.00			
351	HA TUN AKAHA BIT	31N	19E	GW	SW	SPRING	TROUGH	4	2		1	8	.000	2		.00			
351	ROCK ROCK WELL	31N	19E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	2	20	0.00			
351	ROCK ROCK WELL	31N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	2		.00			
351	ROUGH ROCK SPRING	31N	19E	GW	SW	SPRING	C.TANK	10	8		8	80	0.015	2	20	0.00			
351	ROUGH ROCK SPRING	31N	19E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	2		.00			
351	UNDER ROCK	31N	19E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	2	20	0.00			
351	UNDER ROCK	31N	19E	GW	SW	SPRING	TROUGH	16	3		2	48	0.002	2		.00			
351	Total											13855	0.849		140	1.16	426	6.7	7.9
451	4M-70	30N	20E	GW	SW	SPRING	C.TANK	4	4		4	16	0.001	2	20	0.00			
451	4M-70	30N	20E	GW	SW	SPRING	TROUGH	24	1.5		1	36	0.001	2		.00			
451	Total											52	0.002		20	.00	57	0.9	0.9
351	3A-153	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
351	3K-320	28N	13E	GW	SW	WELL	C.TANK			24	12	452	0.125	1	20	0.00			
351	3K-320	28N	13E	GW	SW	WELL	TANK			32	8	804	0.148	1		0.08			
351	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
351	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
351	3K-320	28N	13E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
351	3K-332	29N	13E	GW	SW	WELL	POND	50	50		4	2500	0.230	1	20	0.25			
351	3K-332	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
351	3K-332	29N	13E	GW	SW	WELL	TANK			30	8	707	0.130	1		0.07			
351	3K-332	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
351	3M-175	29N	13E	GW	SW	WELL	C.TANK			40	6	1257	0.173	1	20	0.00			
351	3M-175	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
351	3M-175	29N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
351	3M-176	30N	13E	GW	SW	WELL	C.TANK			27	8	573	0.105	1	20	0.00			
351	3M-176	30N	13E	GW	SW	WELL	C.TANK			10	1.9	79	0.003	1		0.00			
351	3M-176	30N	13E	GW	SW	WELL	POND	50	5		4	250	0.023	1		0.03			
351	3M-176	30N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
351	3M-176	30N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
351	551-1	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
351	551-1	29N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
351	551-1	29N	13E	GW	SW	WELL	TANK			24	20	452	0.208	1		0.05			
351	551-2	28N	13E	GW	SW	WELL	C.TANK			24	20	452	0.208	1	20	0.00			
351	551-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
351	HOOK SPRING	28N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
351	HOOK SPRING	28N	13E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
351	Total											8240	1.381		160	0.54	888	13.9	14.5
352	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
352	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
352	351-2	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
352	3A-152	28N	13E	GW	SW	WELL	TANK			40	6	1257	0.173	1	20	0.13			
352	3A-152	28N	13E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			

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Range Unit	Label	Township	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cycle	Consume Use	Total Deplet.
352	3A-152	28N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
352	63-53	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
352	SALT WELL	26N	14E	GW	SW	SPRING	POND	6	4		2	24	0.001	1	20	.00			
352	SALT WELL	26N	14E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1		.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
352	SAND SPRINGS	27N	13E	GW	SW	SPRING	C.TANK			10	8	79	0.014	1	20	0.00			
352	SWEET WATER	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
352	SWEET WATER	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
352	SWEET WATER WELL	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
352	UNNAMED SPRING	26N	14E	GW	SW	SPRING	POND	4	6		3	24	0.002	1	20	.00			
352	WHISKEY	27N	13E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
352	Total											2003	0.227		200	0.19	346	5.4	5.6
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
353	RED ROCK WELL	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	RED ROCK WELL	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	SAND VALLEY	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	SAND VALLEY	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
353	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1		0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	UNNAMED WELL	26N	14E	GW	SW	SPRING	POND	4	4		3	16	0.001	1	20	.00			
353	Total											497	0.043		120	0.04	156	2.4	2.5
354	554-E6	27N	13E	GW	SW	SPRING	POND	50	50		5	2500	0.287	1	20	0.25			
354	5M-1	27N	13E	GW	SW	SPRING	TANK			6	8	28	0.005	1	20	.00			
354	5M-1	27N	13E	GW	SW	SPRING	TROUGH			10	1.9	79	0.003	1		0.01			
354	5M-1	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
354	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
354	SANDSPRINGS	27N	13E	GW	SW	SPRING	TANK			10	1.9	79	0.003	1	20	0.01			
354	Total											2733	0.300		80	0.28	149	2.3	2.6
355	555-1	25N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
355	555-1	25N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
355	5K-330	25N	15E	GW	SW	WELL	TANK			10	2	79	0.004	1	20	0.01			
355	Total											128	0.009		40	0.01	83	1.3	1.3
356	5K-330	25N	15E	GW	SW	WELL	C.TANK			20	8	314	0.058	1	20	0.00			
356	5K-330	25N	16E	GW	SW	WELL	POND	75	75		5	5625	0.646	1		0.57			
356	5K-330	25N	15E	GW	SW	WELL	TROUGH			10	2	79	0.004	1		0.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Catch	Consum Use	Total Deplet.
356	Total											6018	0.707		20	0.57	75	1.2	1.8
357	557-1	25N	18E	GW	SW	SPRING	TROUGH			10	1.7	79	0.003	1	20	0.01	37	0.6	0.6
358	DOG WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
358	DOG WELL	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
358	KALBITO SPRING	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
358	SEBA DALKAI	25N	18E	GW	SW	SPRING	TANK	5	5		8	25	0.005	1	20	.00			
358	SEBA DALKAI	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
358	Total											146	0.011		60	0.01	82	1.3	1.3
359	7H-233	25N	19E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1	20	.00			
359	7H-233	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	CROWN POINT WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
359	CROWN POINT WELL	25N	18E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1		0.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1	20	0.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	SHANETOH SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1	20	0.00			
359	SHANETOH SPRING	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
359	TT5-2	25N	19E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
359	TT5-2	25N	19E	GW	SW	SPRING	TROUGH	16	1		1	16	.000	1		.00			
359	UNNAMED	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
359	Total											625	0.073		160	0.03	282	4.4	4.5
361	7T-520	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00	22	0.3	0.4
362	562-E8	26N	19E	GW	SW	WELL	POND	75	75		8	5625	1.033	1	20	0.57			
362	562-E9	26N	19E	GW	SW	WELL	POND	50	50		4	2500	0.230	1	20	0.25			
362	7A-5-A2	26N	19E	GW	SW	WELL	C.TANK			20	14	314	0.101	1	20	0.00			
362	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	7K-356	26N	20E	GW	SW	WELL	C.TANK			10	10	79	0.018	1	20	0.00			
362	7K-356	26N	20E	GW	SW	WELL	TROUGH	24	2		2	48	0.002	1		.00			
362	7T-504	26N	19E	GW	SW	WELL	C.TANK			7.5	14	44	0.014	1	20	0.00			
362	7T-504	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	PRIVATE WELL	26N	19E	GW	SW	WELL	C.TANK			6	6	28	0.004	1	20	0.00			
362	PRIVATE WELL	26N	19E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			

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Future use of present stockwater wells and springs for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consump Use	Total Deplet.
362	Total											8806	1.406		120	0.84	318	5.0	5.8
363	563-E1	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
363	563-E3	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
363	563-E4	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1	20	0.25			
363	7H-5A-4	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00			
363	7K-355	26N	20E	GW	SW	WELL	TANK			33	8	855	0.157	1	20	0.09			
363	7K-355	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
363	7K-363	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00			
363	7T-520	26N	20E	GW	SW	WELL	TANK			33.4	8	876	0.161	1	20	0.09			
363	7T-520	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
363	Total											9423	1.183		140	0.95	186	2.9	3.9
365	7H-5A4	26N	20E	GW	SW	WELL	C.TANK			20	12	314	0.087	1	20	0.00			
365	7H-5A4	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1		0.25			
365	7H-5A4	26N	20E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
365	7K-363	26N	20E	GW	SW	WELL	C.TANK			20	14	314	0.101	1	20	0.00			
365	7K-363	26N	20E	GW	SW	WELL	POND	50	50		5	2500	0.287	1		0.25			
365	7K-363	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
365	Total											5700	0.763		40	0.51	309	4.9	5.4
366	7H-5A7A1	26N	22E	GW	SW	WELL	C.TANK			18	14	254	0.082	2	20	0.00			
366	7H-5A7A1	26N	22E	GW	SW	WELL	TROUGH	20	2		1	40	0.001	2		.00			
366	7H-5A7A2	26N	22E	GW	SW	WELL	TROUGH	20	2		1	40	0.001	2	20	.00			
366	Total											334	0.084		40	0.01	6	0.1	0.1
367	567-E3	26N	21E	GW	SW	WELL	POND	50	50		4	2500	0.230	2	20	0.21			
367	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
367	7T-519	26N	21E	GW	SW	WELL	TANK			25	8	491	0.090	2	20	0.04			
367	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
367	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
367	Total											3135	0.323		60	0.27	163	2.6	2.8
368	7H-5A-6	27N	22E	GW	SW	WELL	C.TANK			18	14	254	0.082	2	20	0.00			
368	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
368	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
368	7H-5A-6	27N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2		.00			
368	7T-519	26N	21E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
368	Total											446	0.086		40	0.02	283	4.4	4.5
369	#19	28N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
369	7H-37	27N	22E	GW	SW	WELL	POND	50	50		5	2500	0.287	2	20	0.21			
369	7H-37	27N	22E	GW	SW	WELL	TANK			25	8	491	0.090	2		0.04			
369	7H-37	27N	22E	GW	SW	WELL	TROUGH	32	2		1	64	0.001	2		0.01			

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Future use of present stockwater wells and springs for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consum. Use	Total Deplet.
569	Total											3103	0.380		40	0.26	91	1.4	1.7
570	SH-Z7 P29	28N	22E	GW	SW	SPRING	TANK	4	4		4	16	0.001	2	20	.00			
570	SH-Z7 P29	28N	22E	GW	SW	SPRING	TROUGH	26.5	2.5		1	66	0.002	2		0.01			
570	7H-Z7	28N	22E	GW	SW	SPRING	TANK	7	7		8	49	0.009	2	20	.00			
570	7K-371	28N	22E	GW	SW	WELL	POND	75	50		3	3750	0.258	2	20	0.32			
570	7K-371	28N	22E	GW	SW	WELL	TANK			24	12	452	0.125	2		0.04			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2	20	.00			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2		.00			
570	Total											4370	0.396		80	0.37	108	1.7	2.1
571	7H-26	28N	21E	GW	SW	SPRING	TANK			4	15	13	0.004	2	20	.00			
571	7H-26	28N	21E	GW	SW	SPRING	TROUGH	19	1.5		1.5	29	0.001	2		.00			
571	7K-371	28N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
571	Total											89	0.006		40	0.01	97	1.5	1.5
572	7K-364	28N	21E	GW	SW	WELL	C.TANK			8	12	50	0.014	2	20	0.00			
572	7K-364	28N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
572	Total											74	0.014		20	.00	130	2.0	2.0
573	20	29N	21E	GW	SW	WELL	TANK			20	12	314	0.087	2	20	0.03			
573	20	29N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
573	Total											338	0.087		20	0.03	63	1.0	1.0
Total of future use of present stockwater wells and springs in HPL												144293	18.998		3160	12.30	7296	114.5	126.9

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE	[illegible] USE	TOTAL DEPLET.
Z51	1K-239	33N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z51	RED LAKE #4	33.5N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z51	UNNAMED(IN Z52)	33N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z51	TOTAL									236	0.010		60	0.02	59	0.93	0.95
Z54	COTTONWOOD SP	34N	15E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
Z54	KYDESTEA SP	34N	15E	GW	SW	SPRING	DRINKER	10	1.9	79	0.003	1	20	0.01			
Z54	MARKED TRAIL SP	34N	15E	GW	SW	SPRING	DRINKER	10	1.9	79	0.003	1	20	0.01			
Z54	TOTAL									236	0.010		60	0.02	70	1.10	1.12
Z55	2-7-1	32N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z55	2-7-2	29N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z55	3H-170	29N	13E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z55	3K-330	31N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z55	3H-156	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z55	NEZ	31N	13E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z55	TOTAL									471	0.021		120	0.05	128	2.01	2.06
Z56	2-8-1	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z56	2-8-2	31N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z56	3K-344	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z56	TIS YA TOH	31N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z56	WILLOW	31N	14E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z56	TOTAL									393	0.017		100	0.04	106	1.66	1.70
Z57	4K-383	31N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z57	4K-391	32N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z57	BOB CAT	30N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z57	JUA 2-9-391	32N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z57	PROPOSED WELL	31N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z57	TOTAL									393	0.017		100	0.04	110	1.73	1.77
Z58	2-13-1	30N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
Z58	2-13-1Z3	30N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z58	UNNAMED	30N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z58	UNNAMED	30N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
Z58	TOTAL									314	0.014		80	0.03	77	1.21	1.24
Z59	2-11-1	32N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
Z59	2-5-1	33N	17E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
Z59	4K-394	32N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
Z59	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
Z59	CLIFF DWELLING	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE USE	CONSUM USE	TOTAL DEPLET.
259	DANGER	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	HORSE	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	NAKAI YAZZLE	32N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	TOTAL									628	0.027		160	0.05	164	2.57	2.63
260	NARROW LEDGE	33N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	PROPOSED WELL	33.5N	16E	GW	SW	WELL	TANK	24	12	452	0.125	2	20	0.04			
260	SAND SPRING	33N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	TOTAL									688	0.135		80	0.06	64	1.00	1.06
261	2 HEADED SNARE	33.5N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	4K-387	33.5N	17E	GW	SW	WELL	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	4K-387	33.5N	17E	GW	SW	WELL	TROUGH	10	1.9	79	0.003	2		0.01			
261	RED WILLOW	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	TOTAL									393	0.017		80	0.03	88	1.38	1.41
262	BIG MTN.	33N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01	9	0.14	0.15
263	BLACK HORSE	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	COTTONWOOD	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	LOOKING WOMAN	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	OWL SPRING	34N	18N	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	POST	33.5N	18E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	SAGEBRUSH	34N	18E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	TOTAL									471	0.021		120	0.03	100	1.57	1.60
351	4M-89A	31N	18E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01	27	0.42	0.43
451	4M70 FW	30N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
451	CAT SPRING	30N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	2	20	0.01			
451	TOTAL									157	0.007		40	0.01	57	0.89	0.91
553	553-1	26N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1		0.01			
553	553-1	26N	14E	GW	SW	WELL	TANK	24	12	452	0.125	1		0.05			
553	SHONTO SPRING	26N	15E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
553	TOTAL									609	0.131		20	0.06	36	0.57	0.63
555	553-1	26N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01	28	0.44	0.45
557	7K-302	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01	37	0.58	0.59
558	7K-302	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE	DOMSTIC USE	TOTAL DEPLET.
558	7K-302	25N	18E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
558	KALBITO SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	LUKAI SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	SEBA DALKAI SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	TOTAL									393	0.017		100	0.04	82	1.29	1.33
559	BELL BUTTE SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	HORSE SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	LUKAI SP	25N	19E	GW	SW	SPRING	TANK	5	10	20	0.005	1	20	.00			
559	SEBA DALKAI SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	WOLF PASS WELL	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	TOTAL									334	0.018		100	0.03	67	1.05	1.09
560	7T-520	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01	61	0.96	0.97
562	7K-355	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
562	TT-504	26N	19E	GW	SW	WELL	TANK	27	12	573	0.158	1	20	0.06			
562	TOTAL									651	0.161		40	0.07	58	0.91	0.98
563	7H-5A-4	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
563	7K-363	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
563	TOTAL									157	0.007		40	0.02	37	0.58	0.60
564	7A-5A-2	26N	19E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01	39	0.61	0.62
570	19	28N	22E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
570	7K-371	28N	22E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
570	TOTAL									157	0.007		40	0.01	31	0.49	0.50
571	18	28N	21E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
571	7K-371	28N	22E	GW	SW	WELL	DRINKER	10	1.9	79	0.003	1	20	0.01			
571	TOTAL									157	0.007		40	0.02	65	1.02	1.04
573	PROPOSED WELL	29N	21E	GW	SW	WELL	TANK	24	12	452	0.125	2	20	0.04	32	0.50	0.54
TOTAL GROUNDWATER CLAIM FOR STOCKWATERING										7761	0.790		1520	0.72	1632	25.62	26.35

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle Use	Consump. Use	Total Deplet.
Z51	Z51-E14	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E5	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E1	33.5N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E3	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E7	33N	13E	BEGASHIBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z51	Z51-E8	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E6	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E10	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E4	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Z51-E13	33N	13E	BEGASHIBITO	SP	DAM	POND	50	50	5	2500	0.29	1	0.25			
Z51	Z51-E11	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E9	33N	13E	BEGASHIBITO	SP	DAM	POND	75	50	10	3750	0.86	1	0.38			
Z51	Z51-E12	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z51	Z51-E2	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Total										88125	11.45		8.87	273	4.3	13.2
Z52	Z52-E8	34N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E2	33N	14E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z52	Z52-E6	33.5N	15E	MOENKOPI	SP	DAM	POND	150	150	6	22500	3.10	2	1.91			
Z52	Z52-E5	33.5N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E7	34N	15E	MOENKOPI	SP	DAM	POND	75	75	5	5625	0.65	2	0.48			
Z52	Z52-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z52	Z52-E3	33.5N	14E	MOENKOPI	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
Z52	Z52-E4	33.5N	14E	MOENKOPI	SP	DAM	POND	150	100	4	15000	1.38	1	1.51			
Z52	Total										184375	9.97		7.50	131	2.1	9.6
Z53	Z53-E2	33N	13E	MOENKOPI	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
Z53	Z53-E12	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E10	32N	14E	MOENKOPI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z53	Z53-E15	33N	15E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	2	0.48			
Z53	Z53-E5	32N	14E	MOENKOPI	SP	DAM	POND	150	100	8	15000	2.75	1	1.51			
Z53	Z53-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z53	Z53-E6	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E13	33N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z53	Z53-E14	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E7	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E11	33N	15E	MOENKOPI	SP	DAM	POND	75	50	5	3750	0.43	2	0.32			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E9	32N	14E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
Z53	Z53-E4	33N	14E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	1	0.25			
Z53	Z53-E3	33N	14E	MOENKOPI	SP	DAM	POND	100	75	8	7500	1.38	1	0.75			
Z53	Total										108750	15.44		10.58	211	3.3	13.9
Z54	Z54-E2	33.5N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z54	Z54-E3	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			
Z54	Z54-E1	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consump	Total
Z54	Total										17500	1.95		1.49	70	1.1	2.6
Z55	Z55-E12	30N	13E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z55	Z55-E13	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E4	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
Z55	Z55-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z55	Z55-E19	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
Z55	Z55-E14	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E8	29N	14E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
Z55	Z55-E19	30N	13E	BLUE CANYON	SP	DAM	POND	125	50	4	6250	0.57	1	0.63			
Z55	Z55-E3	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
Z55	Z55-E11	29N	13E	BLUE CANYON	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
Z55	Z55-E6	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z55	Z55-E18	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
Z55	Z55-E1	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z55	Z55-E2	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
Z55	Z55-E7	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z55	Z55-E17	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z55	Z55-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
Z55	Z55-E3	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
Z55	Z55-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
Z55	Z55-E16	30N	13E	BLUE CANYON	SP	DAM	POND	150	75	8	11250	2.07	1	1.13			
Z55	Z55-E9	30N	14E	BLUE CANYON	SP	DAM	POND	150	50	8	7500	1.38	1	0.75			
Z55	Z55-E20	30N	12E	BLUE CANYON	SP	DAM	POND	80	80	8	6400	1.18	1	0.64			
Z55	Z55-E10	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z55	Z55-E5	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z55	Total										217650	44.79		21.90	531	8.3	30.2
Z56	Z56-E2	30N	14E	DINNEBITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E14	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z56	Z56-E11	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z56	Z56-E1	30N	14E	DINNEBITO	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
Z56	Z56-E7	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
Z56	Z56-E5	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E13	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	8	10000	1.84	1	1.01			
Z56	Z56-E19	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E3	30N	14E	DINNEBITO	SP	DAM	POND	150	50	10	7500	1.72	1	0.75			
Z56	Z56-E18	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z56	Z56-E16	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E17	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
Z56	Z56-E10	30N	15E	BLUE CANYON	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z56	Z56-E6	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E9	30N	15E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E8	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
Z56	Z56-E12	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
Z56	Z56-E15	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E4	30N	15E	DINNEBITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Domestic Use	Total Deplet.
256	Total										170000	29.87		17.11	403	6.3	23.4
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	100	50	4	5000	0.46	1	0.50			
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	125	125	5	15625	1.79	1	1.57			
257	257-E2	30N	16E	DINNEBITO	SP	DAM	POND	150	75	10	11250	2.58	1	1.13			
257	Total										31875	4.84		3.21	66	1.0	4.2
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	200	75	4	15000	1.38	1	1.51			
258	258-E2	30N	17E	ORAIBI	SP	DAM	POND	200	75	5	15000	1.72	1	1.51			
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
258	258-E3	30N	16E	DINNEBITO	SP	DAM	POND	250	200	5	50000	5.74	1	5.03			
258	258-E4	30N	17E	DINNEBITO	SP	DAM	POND	300	300	3	90000	6.20	1	9.06			
258	Total										180000	18.25		18.11	96	1.5	19.6
259	259-E5	32N	15E	MOENKOPI	SP	DAM	POND	100	75	4	7500	0.69	2	0.64			
259	259-E3	33N	16E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	2	0.42			
259	259-E4	32N	16E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	2	0.85			
259	Total										22500	3.56		1.91	62	1.0	2.9
261	261-E1	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E2	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E3	33.5N	16E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
261	Total										45625	4.19		3.87	53	0.8	4.7
262	262-E6	32N	17E	DINNEBITO	SP	DAM	POND	1500	100	10	150000	34.44	2	12.73			
262	262-E8	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E9	32N	13E	DINNEBITO	SP	DAM	POND	125	125	10	15625	3.59	2	1.33			
262	262-E2 #1	33.5N	18E	DINNEBITO	SP	DAM	POND	300	100	10	30000	6.89	2	2.55			
262	262-E14	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E1	33N	18E	DINNEBITO	SP	DAM	POND	1500	50	12	75000	20.66	2	6.37			
262	262-E11	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E13	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E5	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E7	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E12	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E10	32N	17E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	2	0.85			
262	262-E3	33N	18E	DINNEBITO	SP	DAM	POND	125	100	6	12500	1.72	2	1.06			
262	262-E4	33N	18E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	Total										375625	83.13		31.89	131	2.1	33.9
263	263 E4	34N	18E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	3	0.70	17	0.3	1.0
351	351-E2	31N	18E	ORAIBI	SP	DAM	POND	100	100	3	10000	0.69	2	0.85			
351	351-E4	30N	18E	ORAIBI	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consum Use	Total Deplet.
351	351-E1	30N	17E	ORAIBI	SP	DAM	POND	200	150	3	30000	2.07	2	2.55			
351	351-E3	31N	18E	ORAIBI	SP	DAM	POND	200	50	3	10000	0.69	2	0.85			
351	Total										70000	4.82		5.94	107	1.7	7.6
451	451-E1	30N	19E	POLACCA	SP	DAM	POND	500	300	4	150000	13.77	2	12.73			
451	451-E3	30N	20E	POLACCA	SP	DAM	POND	500	400	3	200000	13.77	2	16.98			
451	451-E2	30N	19E	POLACCA	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			
451	Total										370000	28.93		31.41	86	1.4	32.8
551	551-E1	29N	13E	DINNEBITO	SP	DAM	POND	100	100	7	10000	1.61	1	1.01			
551	551-E2	29N	13E	DINNEBITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02			
551	551-E5	28N	14E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
551	551-E8	28N	13E	DINNEBITO	SP	DAM	POND	150	150	8	22500	4.13	1	2.26			
551	551-E3	29N	13E	DINNEBITO	SP	DAM	POND	150	150	5	22500	2.58	1	2.26			
551	551-E4	29N	13E	DINNEBITO	SP	DAM	POND	600	500	6	300000	41.32	1	30.19			
551	551-E7	28N	13E	DINNEBITO	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
551	551-E6	28N	14E	DINNEBITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
551	Total										437500	63.76		44.02	284	4.5	48.5
552	552-E5	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E6	27N	14E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
552	552-E4	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E1	27N	13E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
552	552-E2	27N	13E	DINNEBITO	SP	DAM	POND	150	100	6	15000	2.07	1	1.51			
552	552-E3	27N	13E	DINNEBITO	SP	DAM	POND	100	200	6	20000	2.75	1	2.01			
552	Total										95625	22.87		9.62	115	1.8	11.4
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E2	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	1000	1000	3	1000000	68.87	1	100.62			
553	553-E3	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E1	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	500	100	5	50000	5.74	1	5.03			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E4	26N	15E	ORAIBI	SP	DAM	POND	50	75	10	3750	0.86	1	0.38			
553	Total										1166250	109.30		117.35	108	1.7	119.0
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	600	150	14	90000	28.93	1	9.06			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	200	100	4	20000	1.84	1	2.01			
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	225	225	16	50625	18.60	1	5.09			
554	554-E4	26N	13E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
554	554-E2	26N	13E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	400	100	4	40000	3.67	1	4.02			

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Future use of present stock ponds in HPL

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Sqft	Consump Use	Total Deplet.
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	600	200	5	120000	13.77	1	12.07			
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	Total										383125	84.54		38.55	249	3.9	42.5
555	555-E7	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E3	25N	15E	ORAIBI	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	500	75	5	37500	4.30	1	3.77			
555	555-E4	29N	15E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	4	40000	3.67	1	4.02			
555	555-E1	25N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
555	555-E5	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
555	Total										205000	38.97		20.63	275	4.3	24.9
556	556-E3	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	556-E1	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	Total										30000	3.44		3.02	50	0.8	3.8
557	557-E2	25N	17E	JEDDITO	SP	DAM	POND	75	50	6	3750	0.52	1	0.38	37	0.6	1.0
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
558	558-E1	25N	18E	JEDDITO	SP	DAM	POND	80	50	5	4000	0.46	1	0.40			
558	558-E2	25N	18E	JEDDITO	SP	DAM	POND	70	50	5	3500	0.40	1	0.35			
558	Total										27500	5.22		2.77	65	1.0	3.8
559	559-E2	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	559-E3	25N	19E	JEDDITO	SP	DAM	POND	80	40	5	3200	0.37	1	0.32			
559	559-E1	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	Total										18200	2.09		1.83	40	0.6	2.5
560	560-E1	25N	20E	JEDDITO	SP	DAM	POND	100	100	5	10000	1.15	1	1.01	61	1.0	2.0
561	561-E1	25N	21E	JEDDITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02	22	0.3	4.4
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E6	26N	19E	JEDDITO	SP	DAM	POND	80	50	4	4000	0.37	1	0.40			
562	562-E1	26N	19E	JEDDITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E5	26N	19E	JEDDITO	SP	DAM	POND	75	75	4	5625	0.52	1	0.57			
562	562-E7	26N	20E	JEDDITO	SP	DAM	POND	80	80	5	6400	0.73	1	0.64			

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Future use of present stock ponds in HPL

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle/Consum Use	Total Deplet.
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50		
562	562-E3	26N	19E	JEDDITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57		
562	Total										57275	10.87		5.76	260	4.1	9.8
563	563-E2	26N	20E	JEDDITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01	19.00	0.3	2.3
566	566-E5	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34		
566	566-E6	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34		
566	566-E7	27N	22E	BESHBITO	SP	DAM	POND	40	30	10	1200	0.28	2	0.10		
566	566-E4	26N	22E	BESHBITO	SP	DAM	POND	100	100	14	10000	3.21	2	0.85		
566	566-E2	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42		
566	566-E3	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42		
566	566-E1	26N	22E	BESHBITO	SP	DAM	POND	200	100	10	20000	4.59	2	1.70		
566	Total										49200	11.39		4.18	15	0.2	4.4
567	567-E1	28N	21E	HA-WHI-YALINSP		DAM	POND	100	100	14	10000	3.21	2	0.85		
567	567-E2	27N	21E	HA-WHI-YALINSP		DAM	POND	100	100	8	10000	1.84	2	0.85		
567	Total										20000	5.05		1.70	65	1.0	2.7
570	570-E1	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58		
570	570-E5	28N	21E	JEDDITO	SP	DAM	POND	500	300	4	150000	13.77	2	12.73		
570	570-E2	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58		
570	570-E3	27N	22E	JEDDITO	SP	DAM	POND	250	150	4	37500	3.44	2	3.18		
570	570-E4	28N	22E	JEDDITO	SP	DAM	POND	200	100	4	20000	1.84	2	1.70		
570	Total										527500	41.09		44.78	77	1.2	46.0
571	571-E1	28N	22E	JEDDITO	SP	DAM	POND	800	500	8	400000	73.46	2	33.96		
571	571-E2	28N	22E	JEDDITO	SP	DAM	POND	500	100	4	50000	4.59	2	4.24		
571	Total										450000	78.05		38.20	65	1.0	39.2
572	572-E1	29N	21E	JEDDITO	SP	DAM	POND	750	200	4	150000	13.77	2	12.73		
572	572-E2	28N	22E	JEDDITO	SP	DAM	POND	1000	800	4	800000	73.46	2	67.92		
572	Total										950000	87.24		80.65	130	2.0	82.7
573	573-E1	29N	21E	TSE CHIZZI	SP	DAM	POND	250	75	3	18750	1.29	2	1.59		
573	573-E2	29N	21E	TSE CHIZZI	SP	DAM	POND	500	200	4	100000	9.18	2	8.49		
573	Total										118750	10.47		10.08	63	1.0	11.[illegible]
Total of future uses of present stock ponds in HPL											6479200	844.22		593.12	4237	66.5	661.6

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STOCK POND SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE	CONSUMP USE	TOTAL DEPLET.
252	252-F1	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F2	33.5N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F4	35N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F5	35N	14E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F6	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	252-F7	34N	14E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
252	TOTAL										70000	22.498		7.04	115	1.81	8.84
253	253-F1	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	253-F2	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	253-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	253-F4	33.5N	18E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	253-F5	33.5N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	253-F6	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
253	TOTAL										60000	19.284		6.03	79	1.24	7.27
254	254-F1	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
254	254-F2	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
254	254-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
254	TOTAL										30000	9.642		3.02	70	1.10	4.12
255	255S-3	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
255	255E-1	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
255	255E-2	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
255	TOTAL										30000	9.642		3.02	64	1.00	4.02
256	256E-1	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
256	256E-2	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
256	256E-3	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
256	TOTAL										30000	9.642		3.02	64	1.00	4.02
257	257-E1	31N	16E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	22	0.35	1.35
259	259-E1	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E1	32N	17E	MEONKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E2	33N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E3	31N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E4	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E5	31N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E6	32N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E7	32N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E8	32N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	259-E9	32N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			

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STOCK POND SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE	CONSUMP	TOTAL DEF.
259	259-E10	32N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	TOTAL										110000	35.354		9.34	226	3.55	12.89
260	260-F1	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F2	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F3	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F4	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F5	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F6	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F7	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F8	33.5N	11E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F9	33.5N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	TOTAL										90000	28.926		7.64	143	2.25	9.89
261	261-F1	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F2	33N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F3	33.5N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F4	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F5	33.5N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F6	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F7	34N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F8	33.5N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	TOTAL										80000	25.712		6.80	140	2.20	8.99
262	262-F1	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F2	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F3	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F4	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F5	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	TOTAL										50000	16.070		4.25	47	0.74	4.98
263	263-F1	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F2	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F3	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F4	34N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F5	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F6	34N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F7	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F8	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F9	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F10	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F11	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F12	34N	19E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	TOTAL										120000	38.567		8.37	199	3.12	11.50

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STOCK POND SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE	CONSUM. USE	CONSUM. DEPLET.
351	351-F1	30N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	351-F2	31N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	351-F3	31N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	TOTAL										30000	9.642		2.55	80	1.26	3.80
451	451-F1	29N	20E	POLACCA	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	29	0.46	1.30
557	557E-1	25N	17E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	37	0.58	1.59
558	558E-1	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
558	558E-2	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
558	TOTAL										20000	6.428		2.01	33	0.52	2.53
559	559E-3	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	559-2	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	559E-1	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	TOTAL										30000	9.642		3.02	40	0.63	3.64
562	562E-2	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
562	562E-1	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
562	TOTAL										20000	6.428		2.01	58	0.91	2.92
563	563E-1	25N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-2	26N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-4	25N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-3	26N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	TOTAL										40000	12.856		4.02	75	1.18	5.20
565	565-F1	26N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	39	0.61	1.62
569	569-F2	28N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
569	569-F1	27N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
569	TOTAL										20000	6.428		1.70	46	0.72	2.42
570	570-F1	28N	22E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	15	0.24	1.08
573	573-F1	29N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	32	0.50	1.35
TOTAL STOCK POND CLAIM											890000	286.042		79.40	1653	25.95	105.35

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Future use of present stockwater wells and springs for HFL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consume Use	Total Deplet.
352	3A-152	28N	13E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			
352	63-53	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
352	SALT WELL	26N	14E	GW	SW	SPRING	POND	6	4		2	24	0.001	1	20	.00			
352	SALT WELL	26N	14E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1		.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
352	SAND SPRING	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
352	SAND SPRINGS	27N	13E	GW	SW	SPRING	C.TANK			10	8	79	0.014	1	20	0.00			
352	SWEET WATER	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
352	SWEET WATER	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
352	SWEET WATER WELL	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
352	UNNAMED SPRING	26N	14E	GW	SW	SPRING	POND	4	6		3	24	0.002	1	20	.00			
352	WHISKEY	27N	13E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
352	Total											2003	0.227		200	0.19	346	5.4	5.6
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1	20	0.01			
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
353	6353	27N	14E	GW	SW	WELL	TANK			10	1.9	79	0.003	1		0.01			
353	RED ROCK WELL	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	RED ROCK WELL	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	SAND VALLEY	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	SAND VALLEY	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
353	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1		0.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	UNNAMED	26N	14E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
353	UNNAMED WELL	26N	14E	GW	SW	SPRING	POND	4	4		3	16	0.001	1	20	.00			
353	Total											497	0.043		120	0.04	156	2.4	2.5
354	554-E6	27N	13E	GW	SW	SPRING	POND	50	50		5	2500	0.287	1	20	0.25			
354	5M-1	27N	13E	GW	SW	SPRING	TANK			6	8	28	0.005	1	20	.00			
354	5M-1	27N	13E	GW	SW	SPRING	TROUGH			10	1.9	79	0.003	1		0.01			
354	5M-1	27N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
354	SAND VALLEY WELL	26N	13E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1	20	.00			
354	SANDSPRINGS	27N	13E	GW	SW	SPRING	TANK			10	1.9	79	0.003	1	20	0.01			
354	Total											2733	0.300		80	0.28	149	2.3	2.6
355	555-1	25N	15E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
355	555-1	25N	15E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
355	SK-330	25N	15E	GW	SW	WELL	TANK			10	2	79	0.004	1	20	0.01			
355	Total											128	0.009		40	0.01	83	1.3	1.3
356	SK-330	25N	15E	GW	SW	WELL	C.TANK			20	8	314	0.058	1	20	0.00			
356	SK-330	25N	16E	GW	SW	WELL	POND	75	75		5	5625	0.646	1		0.57			
356	SK-330	25N	15E	GW	SW	WELL	TROUGH			10	2	79	0.004	1		0.01			

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Future use of present stockwater wells and springs for HPL range units

Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Catch %	Consum Use	Total Deplet.
356	Total											6018	0.707		20	0.57	75	1.2	1.8
357	557-1	25N	18E	GW	SW	SPRING	TROUGH			10	1.7	79	0.003	1	20	0.01	37	0.6	0.6
358	DOG WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		8	25	0.005	1	20	0.00			
358	DOG WELL	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
358	KALBITO SPRING	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
358	SEBA DALKAI	25N	18E	GW	SW	SPRING	TANK	5	5		8	25	0.005	1	20	.00			
358	SEBA DALKAI	25N	18E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
358	Total											146	0.011		60	0.01	82	1.3	1.3
359	7H-Z33	25N	19E	GW	SW	SPRING	TANK	5	5		10	25	0.006	1	20	.00			
359	7H-Z33	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
359	BELL BUTTE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	CROWN POINT WELL	25N	18E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
359	CROWN POINT WELL	25N	18E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK	12	8		8	96	0.018	1	20	0.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1		0.00			
359	HORSE SPRING	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			6	8	28	0.005	1	20	0.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1		0.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	LUKAI SPRINGS	25N	19E	GW	SW	SPRING	TROUGH	12	2		1	24	0.001	1		.00			
359	SHANETOH SPRING	25N	19E	GW	SW	SPRING	C.TANK			3	8	7	0.001	1	20	0.00			
359	SHANETOH SPRING	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1		.00			
359	TT5-2	25N	19E	GW	SW	SPRING	C.TANK	5	5		10	25	0.006	1	20	0.00			
359	TT5-2	25N	19E	GW	SW	SPRING	TROUGH	16	1		1	16	.000	1		.00			
359	UNNAMED	25N	19E	GW	SW	SPRING	TROUGH	16	2		1	32	0.001	1	20	.00			
359	Total											625	0.073		160	0.03	282	4.4	4.5
361	7T-520	26N	20E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1	20	.00	22	0.3	0.4
362	562-E8	26N	19E	GW	SW	WELL	POND	75	75		8	5625	1.033	1	20	0.57			
362	562-E9	26N	19E	GW	SW	WELL	POND	50	50		4	2500	0.230	1	20	0.25			
362	7A-5-A2	26N	19E	GW	SW	WELL	C.TANK			20	14	314	0.101	1	20	0.00			
362	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	7A-5-A2	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	7K-355	26N	20E	GW	SW	WELL	C.TANK			10	10	79	0.018	1	20	0.00			
362	7K-355	26N	20E	GW	SW	WELL	TROUGH	24	2		2	48	0.002	1		.00			
362	7T-504	26N	19E	GW	SW	WELL	C.TANK			7.5	14	44	0.014	1	20	0.00			
362	7T-504	26N	19E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	1		.00			
362	PRIVATE WELL	26N	19E	GW	SW	WELL	C.TANK			6	6	28	0.004	1	20	0.00			
362	PRIVATE WELL	26N	19E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	1		.00			

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Future use of present stockwater wells and springs for HPL range units

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Diam	Depth	Area sqft	Volume acft	Evap Zone	Max Q gpm	Evap acft	Cattle	Consum. Use	Total Deplet.
569	Total											3103	0.360		40	0.26	91	1.4	1.7
570	5H-27 PZ9	28N	22E	GW	SW	SPRING	TANK	4	4		4	16	0.001	2	20	.00			
570	5H-27 PZ9	28N	22E	GW	SW	SPRING	TROUGH	26.5	2.5		1	66	0.002	2		0.01			
570	7H-27	28N	22E	GW	SW	SPRING	TANK	7	7		8	49	0.009	2	20	.00			
570	7K-371	28N	22E	GW	SW	WELL	POND	75	50		3	3750	0.258	2	20	0.32			
570	7K-371	28N	22E	GW	SW	WELL	TANK			24	12	452	0.125	2		0.04			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2	20	.00			
570	WINDMILL #19	28N	22E	GW	SW	WELL	TROUGH	12	1.5		1.5	18	0.001	2		.00			
570	Total											4370	0.396		80	0.37	108	1.7	2.1
571	7H-26	28N	21E	GW	SW	SPRING	TANK			4	15	13	0.004	2	20	.00			
571	7H-26	28N	21E	GW	SW	SPRING	TROUGH	19	1.5		1.5	29	0.001	2		.00			
571	7K-371	28N	22E	GW	SW	WELL	TROUGH	24	2		1	48	0.001	2	20	.00			
571	Total											89	0.006		40	0.01	97	1.5	1.5
572	7K-364	28N	21E	GW	SW	WELL	C.TANK			8	12	50	0.014	2	20	0.00			
572	7K-364	28N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
572	Total											74	0.014		20	.00	130	2.0	2.0
573	20	29N	21E	GW	SW	WELL	TANK			20	12	314	0.087	2	20	0.03			
573	20	29N	21E	GW	SW	WELL	TROUGH	12	2		1	24	0.001	2		.00			
573	Total											338	0.087		20	0.03	63	1.0	1.0
Total of future use of present stockwater wells and springs in HPL												144293	18.998		3160	12.30	7296	114.5	126.9

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE	[illegible] USE	TOTAL DEPLET.
251	1K-239	33N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
251	RED LAKE #4	33.5N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
251	UNNAMED(IN 252)	33N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
251	TOTAL									236	0.010		60	0.02	59	0.93	0.95
254	COTTONWOOD SP	34N	15E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
254	KYDESTEA SP	34N	15E	GW	SW	SPRING	DRINKER	10	1.9	79	0.003	1	20	0.01			
254	MARKED TRAIL SP	34N	15E	GW	SW	SPRING	DRINKER	10	1.9	79	0.003	1	20	0.01			
254	TOTAL									236	0.010		60	0.02	70	1.10	1.12
255	2-7-1	32N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
255	2-7-2	29N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
255	3H-170	29N	13E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
255	3K-330	31N	13E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
255	3H-156	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
255	NEZ	31N	13E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
255	TOTAL									471	0.021		120	0.05	128	2.01	2.06
256	2-8-1	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
256	2-8-2	31N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
256	3K-344	31N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
256	TIS YA TOH	31N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
256	WILLOW	31N	14E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
256	TOTAL									393	0.017		100	0.04	106	1.66	1.70
257	4K-383	31N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
257	4K-391	32N	15E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
257	BOB CAT	30N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
257	JUA 2-9-391	32N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
257	PROPOSED WELL	31N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
257	TOTAL									393	0.017		100	0.04	110	1.73	1.77
258	2-13-1	30N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
258	2-13-123	30N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
258	UNNAMED	30N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
258	UNNAMED	30N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	1	20	0.01			
258	TOTAL									314	0.014		80	0.03	77	1.21	1.24
259	2-11-1	32N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
259	2-5-1	33N	17E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
259	4K-384	32N	16E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
259	BIG MTN. RUIN	33N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	CLIFF DWELLING	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE USE	CONSUM. USE	TOTAL DEPLET.
259	DANGER	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	HORSE	32N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	NAKAI YAZZLE	32N	15E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
259	TOTAL									628	0.027		160	0.05	164	2.57	2.63
260	NARROW LEDGE	33N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	PROPOSED WELL	33.5N	16E	GW	SW	WELL	TANK	24	12	452	0.125	2	20	0.04			
260	SAND SPRING	33N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	WHITE SANDSTONE	33.5N	16E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
260	TOTAL									688	0.135		80	0.06	64	1.00	1.06
261	2 HEADED SNARE	33.5N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	4K-387	33.5N	17E	GW	SW	WELL	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	4K-387	33.5N	17E	GW	SW	WELL	TROUGH	10	1.9	79	0.003	2		0.01			
261	RED WILLOW	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	WALK A MILE	33.5N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01			
261	TOTAL									393	0.017		80	0.03	88	1.38	1.41
262	BIG MTN.	33N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	2	20	0.01	9	0.14	0.15
263	BLACK HORSE	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	COTTONWOOD	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	LOOKING WOMAN	34N	17E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	OWL SPRING	34N	18N	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	POST	33.5N	18E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	SAGEBRUSH	34N	18E	GW	SW	SPRING	TROUGH	10	1.9	79	0.003	3	20	0.01			
263	TOTAL									471	0.021		120	0.03	100	1.57	1.60
351	4M-89A	31N	18E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01	27	0.42	0.43
451	4M70 FW	30N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
451	CAT SPRING	30N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	2	20	0.01			
451	TOTAL									157	0.007		40	0.01	57	0.89	0.91
553	553-1	26N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	1		0.01			
553	553-1	26N	14E	GW	SW	WELL	TANK	24	12	452	0.125	1		0.05			
553	SHONTO SPRING	26N	15E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
553	TOTAL									609	0.131		20	0.06	36	0.57	0.63
555	553-1	26N	14E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01	28	0.44	0.45
557	7K-302	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01	37	0.58	0.59
558	7K-302	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			

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STOCKWATER SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	DIAM	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	MAX Q GPM	EVAP ACFT	CATTLE USE	DOMESTIC USE	TOTAL DEPLET.
558	7K-302	25N	18E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
558	KALBITO SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	LUKAI SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	SEBA DALKAI SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
558	TOTAL									393	0.017		100	0.04	82	1.29	1.33
559	BELL BUTLE SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	HORSE SP	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	LUKAI SP	25N	19E	GW	SW	SPRING	TANK	5	10	20	0.005	1	20	.00			
559	SEBA DALKAI SP	25N	18E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	WOLF PASS WELL	25N	19E	GW	SW	SPRING	TANK	10	1.9	79	0.003	1	20	0.01			
559	TOTAL									334	0.018		100	0.03	67	1.05	1.09
560	7T-520	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01	61	0.96	0.97
562	7K-355	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
562	TT-504	26N	19E	GW	SW	WELL	TANK	27	12	573	0.158	1	20	0.06			
562	TOTAL									651	0.161		40	0.07	58	0.91	0.98
563	7H-5A-4	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
563	7K-363	26N	20E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
563	TOTAL									157	0.007		40	0.02	37	0.58	0.60
564	7A-5A-2	26N	19E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01	39	0.61	0.62
570	19	28N	22E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
570	7K-371	28N	22E	GW	SW	WELL	TANK	10	1.9	79	0.003	2	20	0.01			
570	TOTAL									157	0.007		40	0.01	31	0.49	0.50
571	18	28N	21E	GW	SW	WELL	TANK	10	1.9	79	0.003	1	20	0.01			
571	7K-371	28N	22E	GW	SW	WELL	DRINKER	10	1.9	79	0.003	1	20	0.01			
571	TOTAL									157	0.007		40	0.02	65	1.02	1.04
573	PROPOSED WELL	29N	21E	GW	SW	WELL	TANK	24	12	452	0.125	2	20	0.04	32	0.50	0.54
TOTAL GROUNDWATER CLAIM FOR STOCKWATERING										7761	0.790		1520	0.72	1632	25.62	26.35

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Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consump Use	Total Deplet.
Z51	Z51-E14	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E5	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E1	33.5N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E3	33N	13E	BEGASHIBITO	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z51	Z51-E7	33N	13E	BEGASHIBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z51	Z51-E8	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E6	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
Z51	Z51-E10	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E4	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Z51-E13	33N	13E	BEGASHIBITO	SP	DAM	POND	50	50	5	2500	0.29	1	0.25			
Z51	Z51-E11	33N	13E	BEGASHIBITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z51	Z51-E9	33N	13E	BEGASHIBITO	SP	DAM	POND	75	50	10	3750	0.86	1	0.38			
Z51	Z51-E12	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z51	Z51-E2	33N	13E	BEGASHIBITO	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z51	Total										88125	11.45		8.87	273	4.3	13.2
Z52	Z52-E8	34N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E2	33N	14E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	1	0.57			
Z52	Z52-E6	33.5N	15E	MOENKOPI	SP	DAM	POND	150	150	6	22500	3.10	2	1.91			
Z52	Z52-E5	33.5N	14E	MOENKOPI	SP	DAM	POND	100	75	6	7500	1.03	2	0.64			
Z52	Z52-E7	34N	15E	MOENKOPI	SP	DAM	POND	75	75	5	5625	0.65	2	0.48			
Z52	Z52-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z52	Z52-E3	33.5N	14E	MOENKOPI	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
Z52	Z52-E4	33.5N	14E	MOENKOPI	SP	DAM	POND	150	100	4	15000	1.38	1	1.51			
Z52	Total										184375	9.97		7.50	131	2.1	9.6
Z53	Z53-E2	33N	13E	MOENKOPI	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
Z53	Z53-E12	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E10	32N	14E	MOENKOPI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z53	Z53-E15	33N	15E	MOENKOPI	SP	DAM	POND	75	75	6	5625	0.77	2	0.48			
Z53	Z53-E5	32N	14E	MOENKOPI	SP	DAM	POND	150	100	8	15000	2.75	1	1.51			
Z53	Z53-E1	33N	14E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
Z53	Z53-E6	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E13	33N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z53	Z53-E14	33N	15E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
Z53	Z53-E7	32N	14E	MOENKOPI	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z53	Z53-E11	33N	15E	MOENKOPI	SP	DAM	POND	75	50	5	3750	0.43	2	0.32			
Z53	Z53-E8	32N	14E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z53	Z53-E9	32N	14E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
Z53	Z53-E4	33N	14E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	1	0.25			
Z53	Z53-E3	33N	14E	MOENKOPI	SP	DAM	POND	100	75	8	7500	1.38	1	0.75			
Z53	Total										108750	15.44		10.58	211	3.3	13.9
Z54	Z54-E2	33.5N	15E	MOENKOPI	SP	DAM	POND	50	50	4	2500	0.23	2	0.21			
Z54	Z54-E3	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			
Z54	Z54-E1	33.5N	15E	MOENKOPI	SP	DAM	POND	100	75	5	7500	0.86	2	0.64			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consump	Total Net Deplet.
Z54	Total										17500	1.95		1.49	70	1.1	2.6
Z55	Z55-E12	30N	13E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z55	Z55-E13	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E4	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
Z55	Z55-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z55	Z55-E19	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
Z55	Z55-E14	30N	13E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E8	29N	14E	BLUE CANYON	SP	DAM	POND	100	75	10	7500	1.72	1	0.75			
Z55	Z55-E15	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
Z55	Z55-E19	30N	13E	BLUE CANYON	SP	DAM	POND	125	50	4	6250	0.57	1	0.63			
Z55	Z55-E3	30N	14E	BLUE CANYON	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
Z55	Z55-E11	29N	13E	BLUE CANYON	SP	DAM	POND	100	50	6	5000	0.69	1	0.50			
Z55	Z55-E6	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z55	Z55-E18	30N	13E	BLUE CANYON	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
Z55	Z55-E1	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z55	Z55-E2	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	5	10000	1.15	1	1.01			
Z55	Z55-E7	31N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z55	Z55-E17	30N	13E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z55	Z55-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
Z55	Z55-E3	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
Z55	Z55-E21	31N	12E	BLUE CANYON	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
Z55	Z55-E16	30N	13E	BLUE CANYON	SP	DAM	POND	150	75	8	11250	2.07	1	1.13			
Z55	Z55-E9	30N	14E	BLUE CANYON	SP	DAM	POND	150	50	8	7500	1.38	1	0.75			
Z55	Z55-E20	30N	12E	BLUE CANYON	SP	DAM	POND	80	80	8	6400	1.18	1	0.64			
Z55	Z55-E10	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z55	Z55-E5	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z55	Total										217650	44.79		21.90	531	8.3	30.2
Z56	Z56-E2	30N	14E	DINNEBITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E14	30N	14E	BLUE CANYON	SP	DAM	POND	75	50	5	3750	0.43	1	0.38			
Z56	Z56-E11	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	8	5000	0.92	1	0.50			
Z56	Z56-E1	30N	14E	DINNEBITO	SP	DAM	POND	200	50	4	10000	0.92	1	1.01			
Z56	Z56-E7	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
Z56	Z56-E5	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E13	30N	14E	BLUE CANYON	SP	DAM	POND	100	100	8	10000	1.84	1	1.01			
Z56	Z56-E19	30N	14E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E3	30N	14E	DINNEBITO	SP	DAM	POND	150	50	10	7500	1.72	1	0.75			
Z56	Z56-E18	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
Z56	Z56-E16	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E17	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
Z56	Z56-E10	30N	15E	BLUE CANYON	SP	DAM	POND	150	75	5	11250	1.29	1	1.13			
Z56	Z56-E6	30N	15E	DINNEBITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E9	30N	15E	BLUE CANYON	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
Z56	Z56-E8	30N	15E	DINNEBITO	SP	DAM	POND	200	75	10	15000	3.44	1	1.51			
Z56	Z56-E12	30N	14E	BLUE CANYON	SP	DAM	POND	200	75	8	15000	2.75	1	1.51			
Z56	Z56-E15	30N	14E	BLUE CANYON	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
Z56	Z56-E4	30N	15E	DINNEBITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01			

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Range Unit	Label	Townshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consump Use	Total Deplet.
256	Total										170000	29.87		17.11	403	6.3	23.4
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	100	50	4	5000	0.46	1	0.50			
257	257-E1	30N	15E	DINNEBITO	SP	DAM	POND	125	125	5	15625	1.79	1	1.57			
257	257-E2	30N	16E	DINNEBITO	SP	DAM	POND	150	75	10	11250	2.58	1	1.13			
257	Total										31875	4.84		3.21	66	1.0	4.2
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	200	75	4	15000	1.38	1	1.51			
258	258-E2	30N	17E	ORAIBI	SP	DAM	POND	200	75	5	15000	1.72	1	1.51			
258	258-E1	30N	16E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
258	258-E3	30N	16E	DINNEBITO	SP	DAM	POND	250	200	5	50000	5.74	1	5.03			
258	258-E4	30N	17E	DINNEBITO	SP	DAM	POND	300	300	3	90000	6.20	1	9.06			
258	Total										180000	18.25		18.11	96	1.5	19.6
259	259-E5	32N	15E	MOENKOPI	SP	DAM	POND	100	75	4	7500	0.69	2	0.64			
259	259-E3	33N	16E	MOENKOPI	SP	DAM	POND	100	50	5	5000	0.57	2	0.42			
259	259-E4	32N	16E	MOENKOPI	SP	DAM	POND	100	100	10	10000	2.30	2	0.85			
259	Total										22500	3.56		1.91	62	1.0	2.9
261	261-E1	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E2	33.5N	16E	MOENKOPI	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
261	261-E3	33.5N	16E	MOENKOPI	SP	DAM	POND	75	75	4	5625	0.52	2	0.48			
261	Total										45625	4.19		3.87	53	0.8	4.7
262	262-E6	32N	17E	DINNEBITO	SP	DAM	POND	1500	100	10	150000	34.44	2	12.73			
262	262-E8	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E9	32N	13E	DINNEBITO	SP	DAM	POND	125	125	10	15625	3.59	2	1.33			
262	262-E2 #1	33.5N	18E	DINNEBITO	SP	DAM	POND	300	100	10	30000	6.89	2	2.55			
262	262-E14	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E1	33N	18E	DINNEBITO	SP	DAM	POND	1500	50	12	75000	20.66	2	6.37			
262	262-E11	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E13	32N	17E	DINNEBITO	SP	DAM	POND	75	100	6	7500	1.03	2	0.64			
262	262-E5	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E7	32N	17E	DINNEBITO	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
262	262-E12	32N	17E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	262-E10	32N	17E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	2	0.85			
262	262-E3	33N	18E	DINNEBITO	SP	DAM	POND	125	100	6	12500	1.72	2	1.06			
262	262-E4	33N	18E	DINNEBITO	SP	DAM	POND	125	100	8	12500	2.30	2	1.06			
262	Total										375625	83.13		31.89	131	2.1	33.9
263	263 E4	34N	18E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	3	0.70	17	0.3	1.0
351	351-E2	31N	18E	ORAIBI	SP	DAM	POND	100	100	3	10000	0.69	2	0.85			
351	351-E4	30N	18E	ORAIBI	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			

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Future use of present stock ponds in HPL

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle	Consum Use	Total Deplet.
351	351-E1	30N	17E	ORAIBI	SP	DAM	POND	200	150	3	30000	2.07	2	2.55			
351	351-E3	31N	18E	ORAIBI	SP	DAM	POND	200	50	3	10000	0.69	2	0.85			
351	Total										70000	4.82		5.94	107	1.7	7.6
451	451-E1	30N	19E	POLACCA	SP	DAM	POND	500	300	4	150000	13.77	2	12.73			
451	451-E3	30N	20E	POLACCA	SP	DAM	POND	500	400	3	200000	13.77	2	16.98			
451	451-E2	30N	19E	POLACCA	SP	DAM	POND	200	100	3	20000	1.38	2	1.70			
451	Total										370000	28.93		31.41	86	1.4	32.8
551	551-E1	29N	13E	DINNEBITO	SP	DAM	POND	100	100	7	10000	1.61	1	1.01			
551	551-E2	29N	13E	DINNEBITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02			
551	551-E5	28N	14E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
551	551-E8	28N	13E	DINNEBITO	SP	DAM	POND	150	150	8	22500	4.13	1	2.26			
551	551-E3	29N	13E	DINNEBITO	SP	DAM	POND	150	150	5	22500	2.58	1	2.26			
551	551-E4	29N	13E	DINNEBITO	SP	DAM	POND	600	500	6	300000	41.32	1	30.19			
551	551-E7	28N	13E	DINNEBITO	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
551	551-E6	28N	14E	DINNEBITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
551	Total										437500	63.76		44.02	284	4.5	48.5
552	552-E5	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E6	27N	14E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
552	552-E4	26N	13E	DINNEBITO	SP	DAM	POND	150	150	14	22500	7.23	1	2.26			
552	552-E1	27N	13E	DINNEBITO	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
552	552-E2	27N	13E	DINNEBITO	SP	DAM	POND	150	100	6	15000	2.07	1	1.51			
552	552-E3	27N	13E	DINNEBITO	SP	DAM	POND	100	200	6	20000	2.75	1	2.01			
552	Total										95625	22.87		9.62	115	1.8	11.4
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E2	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
553	553-E5	26N	14E	ORAIBI	SP	DAM	POND	1000	1000	3	1000000	68.87	1	100.62			
553	553-E3	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E1	26N	15E	ORAIBI	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	500	100	5	50000	5.74	1	5.03			
553	553-E6	26N	14E	DINNEBITO	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
553	553-E4	26N	15E	ORAIBI	SP	DAM	POND	50	75	10	3750	0.86	1	0.38			
553	Total										1166250	109.30		117.35	108	1.7	119.0
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	600	150	14	90000	28.93	1	9.06			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	200	100	4	20000	1.84	1	2.01			
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	225	225	16	50625	18.60	1	5.09			
554	554-E4	26N	13E	DINNEBITO	SP	DAM	POND	75	75	10	5625	1.29	1	0.57			
554	554-E2	26N	13E	DINNEBITO	SP	DAM	POND	100	100	6	10000	1.38	1	1.01			
554	554-E5	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	400	100	4	40000	3.67	1	4.02			

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Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Evapotr.	Consup Use	Total Deplet.
554	554-E1	26N	13E	DINNEBITO	SP	DAM	POND	600	200	5	120000	13.77	1	12.07			
554	554-E7	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	554-E3	25N	13E	DINNEBITO	SP	DAM	POND	125	125	14	15625	5.02	1	1.57			
554	Total										393125	84.54		38.55	249	3.9	42.5
555	555-E7	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E3	25N	15E	ORAIBI	SP	DAM	POND	150	150	10	22500	5.17	1	2.26			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	500	75	5	37500	4.30	1	3.77			
555	555-E4	29N	15E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	4	40000	3.67	1	4.02			
555	555-E1	25N	14E	ORAIBI	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E2	25N	15E	ORAIBI	SP	DAM	POND	200	200	14	40000	12.86	1	4.02			
555	555-E5	25N	15E	POLACCA	SP	DAM	POND	100	100	10	10000	2.30	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
555	555-E6	24N	14E	ORAIBI	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
555	Total										205000	38.97		20.63	275	4.3	24.9
556	556-E3	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	556-E1	25N	16E	POLACCA	SP	DAM	POND	150	100	5	15000	1.72	1	1.51			
556	Total										30000	3.44		3.02	50	0.8	3.8
557	557-E2	25N	17E	JEDDITO	SP	DAM	POND	75	50	6	3750	0.52	1	0.38	37	0.6	1.0
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	200	50	5	10000	1.15	1	1.01			
558	558-E3	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
558	558-E1	25N	18E	JEDDITO	SP	DAM	POND	80	50	5	4000	0.46	1	0.40			
558	558-E2	25N	18E	JEDDITO	SP	DAM	POND	70	50	5	3500	0.40	1	0.35			
558	Total										27500	5.22		2.77	65	1.0	3.8
559	559-E2	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	559-E3	25N	19E	JEDDITO	SP	DAM	POND	80	40	5	3200	0.37	1	0.32			
559	559-E1	25N	18E	JEDDITO	SP	DAM	POND	100	75	5	7500	0.86	1	0.75			
559	Total										18200	2.09		1.83	40	0.6	2.5
560	560-E1	25N	20E	JEDDITO	SP	DAM	POND	100	100	5	10000	1.15	1	1.01	61	1.0	2.0
561	561-E1	25N	21E	JEDDITO	SP	DAM	POND	200	200	5	40000	4.59	1	4.02	22	0.3	4.4
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E6	26N	19E	JEDDITO	SP	DAM	POND	80	50	4	4000	0.37	1	0.40			
562	562-E1	26N	19E	JEDDITO	SP	DAM	POND	75	75	5	5625	0.65	1	0.57			
562	562-E2	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.21	1	1.01			
562	562-E5	26N	19E	JEDDITO	SP	DAM	POND	75	75	4	5625	0.52	1	0.57			
562	562-E7	26N	20E	JEDDITO	SP	DAM	POND	80	80	5	6400	0.73	1	0.64			

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Future use of present stock ponds in HPL

Range Unit	Label	Twnshp	Range	Source	Use	Div. Type	Storage Type	Length	Width	Depth	Area sqft	Volume acft	Evap Zone	Evap acft	Cattle/Consum.	Use	Total Deplet.
562	562-E4	26N	19E	JEDDITO	SP	DAM	POND	100	50	5	5000	0.57	1	0.50			
562	562-E3	26N	19E	JEDDITO	SP	DAM	POND	75	75	8	5625	1.03	1	0.57			
562	Total										57275	10.87		5.76	260	4.1	9.8
563	563-E2	26N	20E	JEDDITO	SP	DAM	POND	200	100	8	20000	3.67	1	2.01	19.00	0.3	2.3
566	566-E5	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34			
566	566-E6	26N	22E	BESHBITO	SP	DAM	POND	100	40	8	4000	0.73	2	0.34			
566	566-E7	27N	22E	BESHBITO	SP	DAM	POND	40	30	10	1200	0.28	2	0.10			
566	566-E4	26N	22E	BESHBITO	SP	DAM	POND	100	100	14	10000	3.21	2	0.85			
566	566-E2	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42			
566	566-E3	26N	22E	BESHBITO	SP	DAM	POND	100	50	8	5000	0.92	2	0.42			
566	566-E1	26N	22E	BESHBITO	SP	DAM	POND	200	100	10	20000	4.59	2	1.70			
566	Total										49200	11.39		4.18	15	0.2	4.4
567	567-E1	28N	21E	HA-WHI-YALIN	SP	DAM	POND	100	100	14	10000	3.21	2	0.85			
567	567-E2	27N	21E	HA-WHI-YALIN	SP	DAM	POND	100	100	8	10000	1.84	2	0.85			
567	Total										20000	5.05		1.70	65	1.0	2.7
570	570-E1	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58			
570	570-E5	28N	21E	JEDDITO	SP	DAM	POND	500	300	4	150000	13.77	2	12.73			
570	570-E2	28N	21E	JEDDITO	SP	DAM	POND	400	400	3	160000	11.02	2	13.58			
570	570-E3	27N	22E	JEDDITO	SP	DAM	POND	250	150	4	37500	3.44	2	3.18			
570	570-E4	28N	22E	JEDDITO	SP	DAM	POND	200	100	4	20000	1.84	2	1.70			
570	Total										527500	41.09		44.78	77	1.2	46.0
571	571-E1	28N	22E	JEDDITO	SP	DAM	POND	800	500	8	400000	73.46	2	33.96			
571	571-E2	28N	22E	JEDDITO	SP	DAM	POND	500	100	4	50000	4.59	2	4.24			
571	Total										450000	78.05		38.20	65	1.0	39.2
572	572-E1	29N	21E	JEDDITO	SP	DAM	POND	750	200	4	150000	13.77	2	12.73			
572	572-E2	28N	22E	JEDDITO	SP	DAM	POND	1000	800	4	800000	73.46	2	67.92			
572	Total										950000	87.24		80.65	130	2.0	82.7
573	573-E1	29N	21E	TSE CHIZZI	SP	DAM	POND	250	75	3	18750	1.29	2	1.59			
573	573-E2	29N	21E	TSE CHIZZI	SP	DAM	POND	500	200	4	100000	9.18	2	8.49			
573	Total										118750	10.47		10.08	63	1.0	11.1
Total of future uses of present stock ponds in HPL											6479200	844.22		593.12	4237	66.5	661.6

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STOCK POND SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE USE	CONSUMR DEMAND	TOTAL DEMAND
Z52	Z52-F1	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F2	33.5N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F4	35N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F5	35N	14E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F6	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	Z52-F7	34N	14E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z52	TOTAL										70000	22.498		7.04	115	1.81	8.84
Z53	Z53-F1	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z53	Z53-F2	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3:214	1	1.01			
Z53	Z53-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z53	Z53-F4	33.5N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z53	Z53-F5	33.5N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z53	Z53-F6	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z53	TOTAL										60000	19.284		6.03	79	1.24	7.27
Z54	Z54-F1	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z54	Z54-F2	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z54	Z54-F3	34N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z54	TOTAL										30000	9.642		3.02	70	1.10	4.12
Z55	Z553-3	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
Z55	Z55E-1	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
Z55	Z55E-2	30N	13E	BLUECANYONSP		DAM	POND	100	100	14	10000	3.214	1	1.01			
Z55	TOTAL										30000	9.642		3.02	64	1.00	4.02
Z56	Z56E-1	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z56	Z56E-2	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z56	Z56E-3	30N	15E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
Z56	TOTAL										30000	9.642		3.02	64	1.00	4.02
Z57	Z57-E1	31N	16E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	22	0.35	1.35
Z59	Z59-E1	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E1	32N	17E	MEONKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E2	33N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E3	31N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E4	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E5	31N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E6	32N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E7	32N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E8	32N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
Z59	Z59-E9	32N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			

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RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE	CONSUMP USE	TOTAL DEMAND
259	259-E10	32N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
259	TOTAL										110000	35.354		9.34	226	3.55	12.89
260	260-F1	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F2	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F3	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F4	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F5	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F6	33N	15E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F7	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F8	33.5N	11E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	260-F9	33.5N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
260	TOTAL										90000	28.926		7.64	143	2.25	9.89
261	261-F1	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F2	33N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F3	33.5N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F4	33N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F5	33.5N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F6	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F7	34N	16E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	261-F8	33.5N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
261	TOTAL										80000	25.712		6.80	140	2.20	8.99
262	262-F1	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F2	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F3	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F4	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	262-F5	33N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
262	TOTAL										50000	16.070		4.25	47	0.74	4.98
263	263-F1	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F2	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F3	34N	17E	MOENKOPI	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F4	34N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F5	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F6	34N	17E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F7	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F8	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F9	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F10	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F11	34N	18E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	263-F12	34N	19E	DINNEBITO	SP	DAM	POND	100	100	14	10000	3.214	3	0.70			
263	TOTAL										120000	38.567		8.37	199	3.12	11.50

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STOCK POND SUMMARY FOR FUTURE DEVELOPMENT ON THE HPL RANGE UNITS

RANGE UNIT	LABEL	TWNSHP	RANGE	SOURCE	USE	DIV. TYPE	STORAGE TYPE	LENGTH	WIDTH	DEPTH	AREA SQFT	VOLUME ACFT	EVAP ZONE	EVAP ACFT	CATTLE	CONSUMPT. USE	TOTAL DEPLET.
351	351-F1	30N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	351-F2	31N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	351-F3	31N	18E	ORAIBI	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
351	TOTAL										30000	9.642		2.55	80	1.26	3.80
451	451-F1	29N	20E	POLACCA	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	29	0.46	1.30
557	557E-1	25N	17E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	37	0.58	1.59
558	558E-1	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
558	558E-2	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
558	TOTAL										20000	6.428		2.01	33	0.52	2.53
559	559E-3	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	559-2	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	559E-1	25N	18E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
559	TOTAL										30000	9.642		3.02	40	0.63	3.64
562	562E-2	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
562	562E-1	26N	19E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
562	TOTAL										20000	6.428		2.01	58	0.91	2.92
563	563E-1	25N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-2	26N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-4	25N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	563E-3	26N	20E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01			
563	TOTAL										40000	12.856		4.02	75	1.18	5.20
565	565-F1	26N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	1	1.01	39	0.61	1.62
569	569-F2	68N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
569	569-F1	27N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85			
569	TOTAL										20000	6.428		1.70	46	0.72	2.42
570	570-F1	28N	22E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	15	0.24	1.08
573	573-F1	29N	21E	JEDDITO	SP	DAM	POND	100	100	14	10000	3.214	2	0.85	32	0.50	1.35
TOTAL STOCK POND CLAIM											890000	286.042		79.40	1653	25.95	105.35

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IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 NOTICE OF FILING OF AMENDED STATEMENT OF CLAIMANT

DESCRIPTIVE SUMMARY:	The Hopi Tribe files Notice that it has filed its Amended Statement of Claimant with ADWR pursuant to this Court's Order, dated July 16, 2002 and Minute Entry dated May 9, 2003.
NUMBER OF PAGES:	1
DATE OF FILING:	January 29, 2004

Pursuant to Paragraph 5 of the Court Order, dated July 16, 2002, as amended by Minute Entry dated May 9, 2003, the Hopi Tribe hereby files Notice that on this date, it has filed its Amended Statement of Claimant with the Arizona Department of Water Resources (ADWR). This statement amends the Hopi Tribe's original Statement, filed November 3, 1986. The Hopi Tribe reserves the right to further amend or supplement its statement.

Harry R. Sachse
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CERTIFICATE OF SERVICE

I hereby declare under penalty of perjury, that on January 29, 2004, I served a true and correct copy of the NOTICE OF FILING OF AMENDED STATEMENT OF CLAIMANT, by U.S. Mail, postage prepaid, to all parties listed on the Court-Approved Mailing List, dated October 6, 2003.

I also declare under penalty of perjury, that on January 29, 2004, I served a true and correct copy of the document described above by U.S. mail to the following addresses:

Clerk of the Superior Court
Attn: Sue Hall
Apache County Courthouse
70 West Third South
St. John's, AZ 85936
(928) 337-4364

Honorable Eddward P. Ballinger, Jr.
Judge of the Superior Court, Maricopa County
East Court Building, # 513
101 West Jefferson
Phoenix, AZ 85003
(602) 506-8551

Honorable Michael C. Nelson
Judge of the Superior Court, Apache County
Post Office Box 667
St. Johns, AZ 85936
(Sent to: 70 W. Third South, Saint Johns, AZ 85936)
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R. SCOTT TAYLOR*

*NOT ADMITTED IN D.C.

January 29, 2004
By Federal Express

Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85007

Re: The Hopi Tribe's Amended Statement of Claimant.

Dear Sir or Madam:

In accordance with the Court's Order of July 16, 2002 and Minute Entry of May 9, 2003, the Hopi Tribe respectfully submits its Amended Statement of Claimant. The statement consists of 35 pages of text, with attached appendices and figures. The Hopi Tribe has also filed notice with the Court and with the parties on the court-approved mailing list of this filing.

Should you have any questions with any of the material enclosed, please do not hesitate to contact us.

Sincerely,

Harry R. Sachse
Colin Cloud Hampson
James T. Meggesto

JTM:tqq
Enclosures

63110.1

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LEGAL
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IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 **THE HOPI TRIBE'S AMENDED STATEMENT OF CLAIMANT**

DESCRIPTIVE SUMMARY:	Amended Statement of Claimant of Hopi Tribe filed pursuant to Court Order dated July 16, 2002 and Minute Entry dated May 9, 2003.
NUMBER OF PAGES:	34
DATE OF FILING:	Original transmitted to Arizona Department of Water

I. INTRODUCTION

Pursuant to Paragraph 5 of the Court's Order dated July 16, 2002 and Minute Entry dated May 9, 2003, the Hopi Tribe hereby submits its Amended Statement of Claimant. This

statement amends the Hopi Tribe's original Statement of Claimant filed November 3, 1986. The Hopi Tribe reserves the right to further amend or supplement its statement.

The Hopi Tribe, as a sovereign, has the right to use all of the economic benefits of its land and water without need for quantification of its right. In the more specific claim that follows, the Tribe does not waive this right nor does it waive its right, if quantification is required, to have additional water decreed to it if a need arises in the future, or to change the use of its water.

The Hopi Tribe has the complete right to administer its own water, and in filing this statement in no way submits to the jurisdiction of the State of Arizona or anyone else as to the control and administration of water decreed to the Hopi Tribe.

A significant portion of the water rights claimed relate to anticipated future uses of water to maintain the Reservation as a useful and productive homeland for the Hopi people. Proposals for future use are not meant to indicate that the water must be used at the precise proposed place or for the precise proposed purpose but are to demonstrate that a certain quantity of water is needed for the continued growth of the Reservation as a homeland for the Hopi people.

While we attempt to state the claim in a way that is useful to the Court and complies with the guidelines of the Department of Water Resources, the nature of the claims requires some latitude. The Court should bear in mind the admonition of the Arizona Supreme Court in *United States v. Superior Court In and For Maricopa County,* 144 Ariz. 265, 277 (1985):

> Indian rights are conferred by federal law, and it is the federal substantive law which our courts must apply to measure those rights in the state adjudication. (citation omitted) Where state law conflicts, it must give way. Our courts have neither the intention nor the power to overturn the *Winters* doctrine or any other federal rule which supports the Indian claims.

II. STATUS OF THE HOPI TRIBE AS A PARTY

The Hopi Tribe is a federally recognized Indian tribe with a Reservation located within the Little Colorado River basin, in northeast Arizona. Since time immemorial the Tribe has resided in the Little Colorado River basin using the waters of the Little Colorado, the tributaries and washes flowing into it and the groundwater of the basin to sustain its society. Because the Hopi Tribe has a paramount interest in these waters, and the United States, its trustee, has conflicts of interest by representing the Navajo Nation as well as the Hopi Tribe, the Hopi Tribe intervened in this proceeding to present its own claim in addition to the claims being presented for it by the United States.

A tribe's right to speak for itself in a general stream adjudication is firmly established. *Arizona v. California*, 460 U.S. 605, 612-616 (1983). The Hopi Tribe's motion to intervene in this proceeding was granted by this Court's order of April 30, 1985.

III. BASIS OF THE TRIBE'S WATER RIGHTS

A. As a sovereign, long predating the United States, and the historic guardian of its lands, the Hopi Tribe claims under its own retained sovereignty the right to all groundwater and surface water in, on, or serving lands owned by the Hopi Tribe or allotted or assigned to its members, or that may hereafter be recognized as belonging to it or its members.

B. As the owner of lands and waters under both Spanish rule and Mexican rule, the Hopi Tribe further claims these waters under Articles VIII and IX of the Treaty of Guadalupe Hidalgo, Treaty between the United States and Mexico of February 2, 1848 (9 Stat. 922),

reserving to citizens of Mexico the rights that they held under Mexican law.

C. Under the reserved rights doctrine established in *Winters v. United States*, 207 U.S. 564 (1908); *Arizona v. California*, 373 U.S. 546 (1963); *Cappaert v. United States*, 426 U.S. 128 (1976), and as owner of all natural resources forming part of its land, *United States v. Shoshone Tribe of Indians of Wind River Reservation*, 304 U.S. 111 (1938), the Hopi Tribe claims the right to all groundwater and surface water, in, on or serving lands owned by the Hopi Tribe or allotted or assigned to its members, or that may hereafter be recognized as belonging to it or its members.

D. The Hopi Tribe further asserts a right to water from sources located outside the boundaries of its lands if needed to supply the Tribe's needs to make that land a permanent homeland, including water from the main stem of the Little Colorado River, the Colorado River including Lake Powell, and the Coconino aquifer.

The Hopi Tribe makes these claims on behalf of and for the benefit of the Tribe, its villages, clans and people.

IV. THE TRIBE'S PRIORITY TO THE USE OF WATER

The Hopi people have the oldest historic claim to water in this basin. Indeed, the historical and archeological record confirms that the Hopi people and their ancestors have used or occupied nearly all of the basin for over twenty centuries. Hopi traditions establish a substantially longer period of occupation of the region by the Hopi. As the United States special three-judge District Court held in *Healing v. Jones*, 210 F. Supp. 125, 134 (D. Ariz. 1962), *aff'd*,

373 U.S. 758 (1963) (per curiam):

> No Indians in this country have a longer authenticated history than the Hopis. As far back as the Middle Ages the ancestors of the Hopis occupied the area between Navajo Mountain and the Little Colorado River, and between the San Francisco Mountains and the Luckachukas.

As discussed in Section VII below, the Hopis occupied this area long before the Spanish or Navajos came, and used its water resources to sustain their society. Oraibi, on Third Mesa, in the heart of the Little Colorado basin, is widely accepted as the oldest continually inhabited community in North America.

The Hopi Tribe claims a water right with immemorial priority senior to that of any other claimant, Indian or non-Indian. The Tribe claims this right for water to serve lands presently owned by the Tribe or Hopi allottees or assignees and for lands that may hereafter be recognized as belonging to the Tribe or Hopi allottees or assignees. The Tribe asserts a senior right with immemorial priority for waters from sources located outside the boundaries of its lands, including from the main stem of the Little Colorado River, the Colorado River, including Lake Powell, and the Coconino Aquifer.

V. STANDARDS FOR QUANTIFYING THE TRIBE'S RESERVED WATER RIGHTS

Since the Tribe submitted its initial Statement of Claimant, the Arizona Supreme Court has established standards for determining the amount of water reserved for Indian lands.[1] *In re General Adjudication of All Rights to Use Water in Gila River System and Source*, 35 P.3d 68,

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[1] A substantial portion, though not all, of the water claimed by the Hopi Tribe is based on the reserved rights doctrine.

74 (Ariz. 2001) (en banc), the court confirmed that a tribe is entitled to an amount of water necessary to make the tribe's reservation a "'permanent home and abiding place, . . . that is, a 'livable' environment.'" *Id.* at 74 (citations omitted). Accordingly, the Hopi Tribe has an undisputed right to water necessary to fulfill the purpose of its reservation – which is to provide a permanent homeland for the Hopi people. The court found that a broad construction of the purpose of Indian reservations is necessary to allow tribes "to achieve the twin goals of Indian self-determination and economic self-sufficiency." *Id.* at 76. It held that practicably irrigable acreage (PIA) must not serve as the exclusive means for quantifying Indian water rights because it would implicitly limit the purpose of a reservation to agriculture and "'assumes that the Indian peoples will not enjoy the same style of evolution as other people, nor are they to have the benefits of modern civilization.'" *Id.* at 76. The court noted that parties claiming rights under state law are not constrained to use the water in the same manner as their ancestors and held, "[j]ust as the nation's economy has evolved, nothing should prevent tribes from diversifying their economies if they so choose and are reasonably able to do so." *Id.* While the court rejected the PIA standard as the *exclusive* means for quantifying Indian water rights, it held that "[t]his does not mean that tribes are prohibited from including agriculture/irrigation as part of their development plans." *Id.* at 80. Of course, any "future irrigation projects are subject to a PIA-type analysis: irrigation must be both practically and economically feasible." *Id.*

The court set out the key factors that must be considered in quantifying Indian water rights. Overall, the court explained that the courts must examine "actual and proposed uses, accompanied by the parties' recommendations regarding feasibility and the amount of water

necessary to accomplish the homeland purpose." *Id.* at 79. The court noted that this may be presented in a master land use plan that specifies the quantity of water necessary for different purposes on the reservation, but acknowledged that tribes may present it in another manner as well. *Id.*

The court identified historical water use as a significant factor, holding that "[d]eference should be given to practices requiring water use that are embedded in Native American traditions. . . . and tribes should be granted water rights necessary to continue such practices into the future." *Id.* at 79. The court reasoned that "tribal prioritization of past water use will affect its future development," and historic use may indicate how the tribe has valued it. *Id.* The court explained,

> For example, a tribe that has never used water to irrigate is less likely to successfully and economically develop irrigation projects in the future. This does not mean that Indians may not use their water allocations for new purposes on a reservation. However, any proposed projects should be scrutinized to insure that they are practical and economical. Such projects should also be examined to determine that they are, in fact, appropriate to a particular homeland.

Id. at 80.

The court also held that tribal culture must be considered, explaining "[w]ater uses that have particular cultural significance should be respected, where possible. The length of time a practice has been engaged in, its nature (e.g., religious or otherwise), and its importance in a tribe's daily affairs may all be relevant." *Id.* at 80.

The court also identified as an important factor, "the tribal land's geography, topography, and natural resources, including groundwater availability" and explained, "[w]e anticipate that any development plan will carefully consider natural resources (including potential water uses),

so that the water actually granted will be put to its best use on the reservation." *Id.* at 80.

In addition to natural resources, courts must look at a tribe's economic base. The court explained that "[t]ribal development plans or other evidence should address, and the court should consider, 'the optimal manner of creating jobs and income for the tribes [and] the most efficient use of the water . . . .'" *Id.* (citation omitted). In examining such evidence, the court explained,

> Economic development and its attendant water use must be tied, in some manner, to a tribe's current economic station. Physical infrastructure, human resources, including the present and potential employment base, technology, raw materials, financial resources, and capital are all relevant in viewing a reservation's economic infrastructure.

Id.

The court also identified present and projected tribal population as an important factor to consider. It reasoned that, "[t]o act without regard to population would ignore the fact that water will always be used, most importantly, for human needs. Therefore, the number of humans is a necessary element in quantifying water rights." *Id.*

The court emphasized that the list of factors that it identified is not exclusive, and the lower court must be given the latitude to consider other information that it deems relevant to determining tribal water rights. The Arizona Supreme Court explained that the primary requirement is that "proposed uses be reasonably feasible." *Id.* at 81. The court set out a two-part analysis for determining compliance with this requirement,

> First, development projects need to be achievable from a practical standpoint – they must not be pie-in-the-sky ideas that will likely never reach fruition. Second, projects must be economically sound. When water, a scarce resource, is put to efficient uses on the reservation, tribal economies and members are the beneficiaries.

Id.

In re General Adjudication of All Rights to Use Water in Gila River System and Source, 989 P.2d 739 (Ariz. 1999), the Arizona Supreme Court held that the reserved rights doctrine applies to groundwater, explaining "[t]he significant question for the purpose of the reserved rights doctrine is not whether the water runs above or below the ground but whether it is necessary to accomplish the purpose of the reservation." *Id.* at 747.

VI. HOPI LANDS

A. Aboriginal Lands.

The aboriginal lands of the Hopi Tribe, referred to by the Hopi as *Hopitutskwa*, far exceeded those lands belonging to the Tribe today. *Hopitutskwa* encompasses the entire Little Colorado River watershed from its confluence with the Rio Puerco west to its confluence with the Colorado River. It is because the Hopis are the original inhabitants of these areas that their priority precedes the establishment of the reservation areas described below.

B. 1882 Executive Order Reservation.

The President of the United States by Executive Order of December 16, 1882, set aside a reservation of some 2.5 million acres for the use of the Hopi Indians "and such other Indians as the Secretary [of the Interior] may see fit to settle thereon." This 1882 Reservation was only a portion of the land traditionally and actually occupied by the Hopi Indians. One of the primary purposes of the reservation was to protect the Hopis from incursions by Navajos into Hopi land. Navajo incursions continued, however, and in *Healing v. Jones,* the court held that by actions

beginning in 1931 the Secretary settled certain Navajo Indians in the Hopi Reservation. 210 F. Supp at 169. A portion of the Reservation (District 6) was recognized as being held exclusively for the benefit of the Hopi Tribe and the remainder was recognized as a "Joint Use Area" for both the Hopi and Navajo Tribes.

The Joint Use Area was later partitioned in accordance with the Act of December 22, 1974, Pub. L. No. 93-531, 88 Stat. 1712 (codified as amended at 25 U.S.C. § 640d -24). The partition divided the 1882 Reservation joint use area into Hopi Partitioned Lands (HPL) and Navajo Partitioned Lands (NPL). A map of the Reservation, including these lands, is attached as Figure 1. The 1974 Act provides that partition of the surface shall not affect the joint ownership "of the coal, oil, gas, and all other minerals within or underlying such lands." 25 U.S.C. § 640d-6.

The Reservation is characterized by mesa and canyon topography. Generally, the mesas range from 5,000 to 6,700 feet in elevation. All the population centers are located in this elevation range. The highest area on the Reservation is in the northeast corner near Low Mountain at an elevation of 6,700 feet. The Hopi lands are dominated by three mesas: First, Second, and Third Mesas. The major population centers of Walpi, Sichomovi, Tewa, Polacca; Shungopavi, Mishongnovi, Shipaulovi, Oraibi, Kykotsmovi, Bacavi, Hotevilla and Keam's Canyon are located on or near the mesas. Spider Mound is a newer community located on the eastern portion of the Reservation. The valleys separating the mesas slope gently from northeast to southwest toward the Little Colorado River.

The Hopi lands are located in the Black Mesa drainage, and all streams and washes are

tributary to the Little Colorado River. Major streams and washes on the reservation include: Dinnebito Wash, Oraibi Wash, Jeddito Wash, Polacca Wash, Moenkopi Wash and Wepo Wash. These washes are primarily ephemeral. However, each wash has limited perennial or intermittent reaches supplied from springs.

C. 1934 Act Reservation Lands.

By Act of June 14, 1934, 48 Stat. 960 (codified at 25 U.S.C.§ 640d-7), Congress set aside for the Navajo "and such other Indians as were already 'located' thereon" an additional area of land outside the boundaries of the 1882 Hopi Reservation. 25 U.S.C. § 640d-7 authorized the Hopi Tribe to bring suit to quiet title to lands it occupied in the area in 1934. Pursuant to that Act the Hopi Tribe brought an action in the federal district court for the district of Arizona to establish the Tribe's right, and the court subsequently declared that portions of the 1934 Act area belong to the Hopi Tribe, including the Villages of Upper Moenkopi and Lower Moenkopi and surrounding areas. *See Masayesva.v. Zah*, 65 F.3d 1445 (9th Cir. 1995). These lands are held in trust by the United States for the benefit of the Hopi Tribe and the Hopi Tribe exercises exclusive jurisdiction over the lands under federal law.

The Moenkopi portion of Hopi lands is located at 5,000 feet in elevation along the floodplain of Moenkopi Wash. The Moenkopi Village section of the reservation includes a reach of Moenkopi Wash. The wash flows across both the 1882 Reservation and the 1934 Act Reservation and is ephemeral with limited perennial reaches supplied by springs. A map of these lands is attached as Figure 2.

D. Hopi Industrial Park.

By Deed of August 4, 1966, certain property originally belonging to the Hopi Tribe but having been transferred to others was returned to the United States in trust for the Hopi Tribe. The property, approximately 200 acres, is located in Sections 21 and 22 of T19N, R15E of the Gila and Salt River Base and Meridian, Navajo and Coconino Counties, Arizona and is known as the Hopi Industrial Park. Special authority concerning the property were provided the Hopi Tribe by Act of May 22, 1970, Pub. L. No. 91-264, 84 Stat. 260 (codified at 25 U.S.C. §§ 641-646).

The Hopi Tribe claims immemorial water rights to service this land as fully as if the land had never left Hopi use, occupation, and control.

E. Hopi Ranches

Beginning in 1997 the Hopi Tribe re-acquired portions of its aboriginal lands located within five large ranch properties, the Aja, Clear Creek, 26 Bar, Hart, and Drye ranches, which the Tribe acquired pursuant to the Navajo-Hopi Land Dispute Settlement Act of 1996, Pub. L. No. 104-301, 110 Stat. 3549 (codified at 25 U.S.C. § 640d note). Except for the 26 Bar, the Tribe has asked the Secretary of Interior to take all of this property into trust on behalf of the Tribe pursuant to the Act. A map of these properties is attached hereto as Figure 3.

VII. HISTORY OF HOPI TRIBE

The Hopi are a Puebloan people who speak Hopi, except for one village where Tewa is also spoken. The Hopi language belongs to the Uto-Aztecan language family. It is related to Shoshone, Ute, Paiute, Piman, and Nahuatl (the language of the Aztecs). The Hopi are the only Pueblo people to speak Uto-Aztecan language. By all accounts, the Hopi are an ancient people

with one of the oldest cultures in North America. Archaeological evidence indicates that present day Hopis are descendants of the ancient Basketmaker culture that existed in the Four Corners area after A.D. 100. Oraibi, a Hopi village on Third Mesa, was founded by 1150 A.D., and has been continuously occupied since then.

The Hopi people are composed of more than thirty clans that migrated throughout the Southwest before reaching and settling on the Hopi Mesas, the great majority in prehistoric times. Numerous Ancestral Pueblo ruins that dot the Little Colorado River watershed are ancestral sites to specific Hopi clans. Members of these clans continue to visit their ancestral sites for ceremonial purposes (such as collecting eagles, and other resources, including spring-water) throughout the *Hopitutskwa*. The archaeological record thus confirms more than 2000 years of continuous, uninterrupted occupation of the Hopi area culminating in the lifeway of the contemporary Hopi people.

The prehistoric Hopis were sedentary people who lived in large villages on the valley floor, terraces, and tops of three mesas on the Colorado Plateau. They were highly successful cultivators who produced maize, beans, melons, squash, and other crops by utilizing a number of farming techniques. Hopi field types included flood-water fields, akchin fields at the mouths of arroyos, sand dune seepage fields, irrigated terraces fed by springs, and irrigated fields fed by canals and reservoirs. Each of these field types took advantage of the relatively scarce water available in the Hopi region. The Hopis also hunted game and gathered native seeds and plants to supplement their agrarian lifestyle. Livestock production became an important part of their economy during the Spanish era, ca 1540-1680.

As noted above, the court in *Healing v. Jones* concluded that "[n]o Indians in this country have a longer authenticated history than the Hopis." 210 F. Supp at 134. The court cited as a prime example a 1540 encounter by a detachment of the Spanish explorer Coronado that "found the Hopis living in villages on mesa tops, cultivating adjacent fields, and tending their flocks . . . ." *Id.* The period of Spanish colonization in the Southwest provides the earliest written accounts of life in the Southwest and provides extensive evidence of Hopi existence in the area as well as their agrarian lifestyle.

For example, the mid-sixteenth century Coronado expedition referenced in *Healing v. Jones* is discussed in GEORGE P. HAMMOND & AGAPITO REY, NARRATIVES OF THE CORONADO EXPEDITION 1540 - 1542, 215-16 (U.N.M. Press, 1940), which chronicles the first Spanish contacts with the Hopi. According to the account, the Coronado expedition set out to explore the Northern reaches of New Spain and encountered the Hopi and found them to be living in well-established villages. The Hopi presented the Spaniards with gifts of food and cloth, including corn meal, squash and fresh corn, and accompanied them on their expedition, eventually leading them to the Colorado River and the Grand Canyon.

It became readily apparent to these explorers that water was vital to Hopi needs. In a letter to the Viceroy of New Spain, Coronado states "[s]o far as I can find out, the water is what these Indians worship, because they say that it makes the corn grow and sustains their life, and that the only other reason they know is because their ancestors did so." George P. Winship, *The Coronado Expedition, 1540-1542, Part 8, reprinted in* 14TH ANN. REP. OF THE BUREAU OF ETHNOLOGY (1896). The Spanish found that Hopi crops were grown using irrigation from

springs, flood irrigation from the washes, run-off from the hills and by plantings in sand dunes. In this regard, it was noted that Hopi villages were situated so as to take advantage of the considerable surface and groundwater run-off of Black Mesa and other areas.

Significantly, no other Indians are mentioned by the Coronado expedition as being settled in the areas explored.

A subsequent Spanish expedition later in the sixteenth century also encountered the Hopi. GEORGE P. HAMMOND & AGAPITO REY, THE REDISCOVERY OF NEW MEXICO 1580-1594, 190-91 (U.N.M. Press, 1966). Again, the expedition was greeted with hospitality and gifts of food and pieces of cloth. The Spanish noted Hopi success in agriculture by observing that "[t]he natives cultivate sandy places without difficulty." *Id.* They also noted that the Hopis made use of the natural springs and wells in the area. One instance is reported where the expedition established a camp close to a well but that when it ran dry, "the natives brought us some [water] for the animals, in gourds and kettles, from other wells." *Id.*

Furthermore, this expedition visited a number of Hopi villages, including Shongopovi and Mishongnovi on Second Mesa, and Oraibi on Third Mesa. As with the previous expedition, no other Indians are mentioned as having settled in the area of the Hopi.

The Hopi population in the area is estimated to have been more than 29,000 in the early sixteenth century, though it is believed to have dropped dramatically due to a smallpox epidemic to between 8,000 and 10,000 by the time the Spanish arrived in 1540. Thus, the earliest accounts of Spanish exploration throughout the Little Colorado River basin document a substantial Hopi population supported by a successful agrarian lifestyle. In none of these early reports, however,

is there any mention made of Navajos or other Indians settled near the Hopis or interfering with their use of land or water.

The documented accounts of Hopi existence and agrarian lifestyle continue uninterrupted for at least three hundred years following these initial sixteenth century Spanish expeditions. For instance, the period of Spanish colonization was marked by numerous missions into this area in an attempt to introduce Christianity to the Hopi. The missionaries described the Hopi as having their own government and religion, living in villages and farming their lands in the same manner found by the early expeditions. In none of these reports are Navajos described as living in this area or using its water.

Moreover, Hopi rights to occupation and use of the land and water were specifically recognized and upheld under Spanish law during this period. The *Recopilacion de leyes de los Reynos de las Indias* governed Spanish treatment of natives within New Spain and expressly preserved native rights to land and water. The language of this body of law was unmistakable in its intent to preserve native rights in this regard. For instance:

> We order that the same regulation followed by the Indians in dividing and distribution of water shall be observed and followed by the Spaniards among whom lands are apportioned and assigned. For this reason the same natives who were previously in charge shall manage watering of the lands; and the water that each must have shall be given to each one in turn. Penalty for violation of this regulation shall be that he who wants, takes and uses the water by his own authority shall be deprived of it until all those in line after him have watered the lands assigned to them.
>
> . . . .
>
> We command that no change be allowed in this regard, and that they keep them as they did before their reduction so that they may cultivate their lands and profit from them.

THE INDIAN CAUSE IN THE SPANISH LAW OF THE INDIES, *reprinted in* WESTERN CIVILIZATION

AND NATIVES PEOPLES, OCCASIONAL Paper No. 16, at 111 (S. Lyman Tyler ed., American West Center, U.Utah, 1980). The legal protection afforded the Hopis under Spanish rule was carried forward under Mexican rule. *See* G. Emlen Hall & David J. Weber, *Mexican Liberals and the Pueblo Indians, 1821-1829,* 59 N.M. HIST. REV. 1 (1984). As such, Indians, including the Hopi, were treated as citizens of Mexico. Later, when the area came into the United States, Hopi rights were protected by the Treaty of Guadalupe Hidalgo. The Treaty stated:

> Mexicans who, in the territories aforesaid, shall not preserve the character of citizens of the Mexican republic, conformably with what is stipulated in the preceding article, shall be incorporated into the Union of the United States, and be admitted at the proper time (to be judged of by the Congress of the United States) to the enjoyment of all the rights of citizens of the United States, according to the principles of the constitution; and in the mean time shall be maintained and protected in the free enjoyment of their liberty and property, and secured in the free exercise of their religion without restriction.

Treaty of Guadalupe Hidalgo, February 2, 1848, U.S.- Mex., art. IX, 9 Stat. 922. Thus, the United States protected the property rights, including water rights, of the Hopi by the Treaty of Guadalupe Hidalgo in 1848.

VIII. WATER IN HOPI CULTURE

Water is the essence of Hopi secular and religious philosophy. It is hard to imagine anything more sacred – as substance or symbol – than water in Hopi religious thought and practice. Intrinsic to other religious representations, and underlying much other symbolism in the panoply of Hopi ritual, is the concern with water. Springs, water, and rain are focal themes in ritual costumes, kiva iconography, mythological narratives, personal names, and songs, which call the cloud chiefs from the varicolored directions to bear their fructifying essence back into the

cycle of human, animal, and vegetal life. That essence – as clouds, rain, and other water forms – manifests the spirits of the dead. When people die, in part they become clouds; songs call to the clouds as ascendant relatives. Arriving clouds are returning ancestors, their rain both communing with and blessing the living. The waters of the earth (where Kachina spirits live) are, then, transubstantiated human life.

Hopi clan migration histories represent a pattern that is reiterated dramatically in ceremonial performance. As a part of ceremonies, priests and ordinary initiated members revisit the ancestral sites and collect their resources, including water from springs. In this fashion they reconsecrate the world, conceived as connected from all directions to the Hopi center, throughout the landscape over which Hopi clans maintain a continuing claim.

Its mythological history and the re-enactment of this in ceremony or the reiteration of it in tradition constitute crucial features of clan identity in Hopi thought. The Orayvi Bow clan, or others associated with the Hopi *Sa'lako,* revisits several shrines (like the Sa'lako spring in Pasture Canyon) and other localities associated with its migration route each time the ceremony is performed and gathers its resources for the ceremony. Similarly, the Water clan continues to return to springs in the south to bring in water and associated resources, especially with regard to *Kwanwimi*, the One Horn ceremony. A significant number of the sites visited for ceremonial purposes are found in direct proximity to the Little Colorado River, or its tributary drainages – on *both* sides of the river, not merely the northern/eastern side.

The documentary records shows that ceremonies continue actively into the present, and draw, in an unbroken pattern since these activities were first recorded by anthropologists in the

late nineteenth century, upon the ancestral estates along the clan's migration route. For example, the Snake clan introduced the Snake ceremony to the Hopi community from Tokòonavi (villages in the Navajo Mountain area), the Flute clan brought the Flute ceremony from Lenaytupqa (Tsegi Canyon area) and Lengyan'ovi (on northern Black Mesa), the Badger clan introduced the Powamuy ceremony from Kiisiwu (in the northeastern corner of Black Mesa) and Mesa Verde, the Water clan brought the One-Horn ceremony from its villages in the south, and so on. Fourteen Hopi religious orders continue to practice actively into the present.

As noted, the present Hopi Reservation boundaries are neither a reflection of Hopi interest in, nor of actual documented use of the broader landscape. Late nineteenth century ethnographer, Walter Hough recorded that the wide-ranging extent of Hopi knowledge of environmental resources was exceptional among American Indians:

> The Hopi are assiduous collectors. A catalogue of the substances brought to their pueblos from long distances would awaken surprise. . . . Every house is a museum of the environment, with specimens from the mineral, animal, and vegetal kingdoms, and every Hopi is a repository of knowledge as to places where materials may be secured. Time and distance are little thought of when it comes to procuring the materials desired (Hough 1900:465).

Describing a specific four-hundred mile round-trip for moccasin-dye extracted from birch bark in an area south of the San Francisco Peaks, Hough observes:

> These journeys are common, for the Moki [Hopi] is no stay-at-home, but roams far beyond the widest view from the high vantage ground of his village, visiting the former seats of his people of by-gone centuries. Thus he knows the flora and fauna over a wide region, and is as much at home in the White Mountains as on the Great Colorado. In former times, he may have journeyed to the Gulf of California for precious sea-shells, to be used as ornaments and for ceremonial trappings, or made long quests for the much prized turquoise, just as he now goes to the Coconino canyon [Cataract Canyon] for baskets or deerskins. His face is familiar at Zuni, where he fares often on a neighborly visit (Hough 1898:138).

Both the Indian Claims Commission hearings in 1962 on Hopi land use, and the 1934 Reservation legal proceedings have extensively documented Hopi resource use – for hunting, gathering, farming, grazing of sheep, horses, and cattle, and for collection of religious-use resources – throughout a large area away from the mesa-top villages of the Hopi residences. In the Indian Claims Commission case, the map of aboriginal claim prepared by the government's own expert, Prof. Florence Ellis, identified exclusive Hopi aboriginal interest in an area that encompassed a large part of the Little Colorado River watershed.

Water is important to the Hopi also as a critical element in agriculture. Farming is an important part of Hopi identity. Agriculture has historically been at the center of the Hopi economy and has served as an important source of food and materials needed for Hopi religious life. Wherever the Hopi have lived throughout the Little Colorado River basin, they have engaged in agricultural pursuits. For example, the archeological record confirms that the Hopi engaged in substantial farming at Homolovi, an historical village on the Little Colorado River. Agriculture continues to serve these vital functions in Hopi life today.

IX. HOPI TRIBE'S ECONOMIC BASE

The Hopi Reservation has a number of key assets which can serve as the basis for strong future economic growth. Water will be a necessary component of the strategy for exploiting these resources to provide employment and income for the Hopi people.

A. Tourism

About four million visitors come annually to Northern Arizona on or near the Hopi Reservation, and approximately 300,000 to 400,000 overnight visitors stay at lodgings in the Northeast region. These numbers are expected to increase. There is a tremendous potential to increase the Hopi share of the existing tourist market in the region.

The richness of the Hopi traditions, mythology, and language are a unique cultural resource and represent an immense, untapped economic value, particularly for increasing the Reservation's share of the tourism market. Because such cultural assets are increasingly being lost elsewhere, these Hopi assets will become ever more valuable. Many people throughout the world will seek to see the world from a Hopi perspective and to learn about their culture and traditions.

B. Coal

There are large reserves of anthracite coal on the Hopi Reservation at Black Mesa. This coal is near the surface, has high BTU value, and has a low-sulfur content, making it especially valuable over the long term. Estimates of the amount of coal availability at Black Mesa vary from between four and twenty billion tons. The Tribe currently leases a small part of its overall coal resources -- approximately 330 million tons -- to Peabody Coal Company which mines the coal and conveys it to the Mohave Generating Station and the Navajo Generating Station for power generation. However, the Tribe's coal resources substantially exceed the amount which Peabody may mine under its lease from the Tribe. The Tribe's other coal resources provide the Tribe with a source of value which may be developed through mining activities as well as

through on-site power generation. Development of the coal resource will depend in part on the availability of adequate water supplies for mining and power generation.

C. Land and Agriculture

Because of the Hopi Tribe's strong agrarian traditions, its lands serve as a vital resource to the Tribe. Since time immemorial agriculture has played a key part in the Hopi culture and economy, and it continues to do so today. Use of the Tribe's lands for agriculture is critical for the future of the Hopi Reservation, its people and their culture.

D. Population and Employment Base

The Hopi labor force is another important asset for the future of the Hopi Reservation. The Hopi Tribe projects a Reservation population of 52,639 in 2100 and that the population will stabilize at 62,512 in 2175. These projections are based on the work of experts retained by the United States. The details of the Tribe's projections, including the growth rates upon which they are based, are set out in Appendix 1.

The Hopi people have demonstrated a powerful work ethic and great ingenuity as they have successfully adapted to and flourished in a difficult environment for so many centuries. Such a workforce is a valuable resource. It remains largely untapped as the unemployment rate on the Reservation is high. The Arizona Department of Economic Security estimates fifteen percent unemployment, the highest in the region even though it does not account for persons who have given up on finding a job and have left the labor force. Data gathered by the Hopi Tribe indicate that the unemployment rate exceeds 47 percent.

X. QUANTIFICATION

A. Summary

Future Water Demand [2]
(Acre-feet per year)

Use	Quantity
Past and Present Irrigation	49,206
Moenkopi Irrigation Project	3,000
Mainstem LCR Irrigation	21,060
Evaporative Uses	2,842
Ceremonial and Subsistence Irrigation	12,546
Domestic, Commercial, Municipal and Industrial Use	11,211
Recreation	139
Springs, Stock Ponds and Wells	8,871
Tourism Projects	1,594
Mining and Related Industry	25,000
Ranches	2,366[3]
Total[4]	137,835

[2] The table is a summary for convenience and does not limit the broader claims made in the text above, e.g., relating to the ownership of water resources as a whole; nor does the table limit the more precise description of each category that follows.

[3] The Tribe also claims 2,088 acre-feet for storage and additional future use provided for by the Navajo-Hopi Settlement Act of 1996.

[4] In addition to the annual claims listed in this table is a claim for 15,700 acre-feet for first-time filling of the proposed irrigation reservoirs, as described below.

B. Surface Water for Irrigation

1. Past and Present Irrigation

The Hopi Tribe claims the right to divert 49,206 acre-feet of water annually from the five washes and minor tributaries that flow from north to south through the Hopi Reservation to irrigate 38,556 acres as shown in Table 1. The five washes are Moenkopi, Dinnebito, Oraibi, Polacca and Jeddito. On average, the irrigation diversion is 28,700 acre-feet per year. However, the Tribe claims the maximum quantity needed to irrigate all of the past and presently irrigated acreage in order to provide an adequate water supply for irrigation in years) when that water is not available. Table 1 identifies the different types of irrigation and the number of acres in each category, and Table 2 shows the claims by source of supply, i.e. wash. Locations of acreage for past and present irrigation for the Hopi 1882 and 1934 Reservation Areas are shown on Figures 4 and 5. These claims are based on the work of the experts retained by the United States, which is discussed in additional detail in the United States' Amended Statement of Claimant on Behalf of the Hopi Tribe.

Table 1
Past and Present Irrigated Acreage
(acres)

Type of Irrigation	Northern Wash Designation						Totals
	Moenkopi	Dinnebito	Oraibi	Polacca	Jadito	Minor Tribs	
1. Perennial	564	0	0	0	0	0	564
2. Seasonal	121	1,375	1,653	1,645	1,392	0	6,186
3. Range Pasture	334	359	4,052	1,970	807	0	7,522
4. Native Irrigation	2,435	5,107	4,910	8,660	1,926	53	23,091
5. Well Irrigation	0	0	0	0	0	0	0
6. Spring Irrigation	31	97	0	22	1	0	151
7.Precipitation Farming	1	333	455	252	1	0	1,042
TOTAL	3,486	7,271	11,070	12,549	4,127	53	38,556

Table 2
Water Demands for Past and Present Irrigation
(acre-feet per year)

	Irrigation	**Depletions**	**Irrigation**	**Diversions**
Wash	**Average**	**Maximum**	**Average**	**Maximum**
1. Moenkopi	3,395	3,976	4,500	5,145
2. Dinnebito	3,961	6,552	5,280	8,714
3. Oraibi	5,384	9,865	5,384	13,120
4. Polacca	7,218	11,869	9,622	15,786
5. Jadito	2,936	4,790	3,914	6,371
6. Minor Tribs	0	52	0	70
TOTAL	22,894	37,104	28,700	49,206

2. Moenkopi Irrigation Project

The Hopi Tribe claims water for the Moenkopi Irrigation Project, using water from Moenkopi Wash. The project consists of 1,200 irrigation acres with a water requirement of 3,000 acre-feet, including conveyance, distribution, storage and seepage losses. An off-stream storage reservoir of 4,200 acre-feet capacity is required to firm up direct flow water supplies

from Moenkopi Wash. Location of this project is shown in Figure 6.

3. Future Irrigation from the Main Stem of the Little Colorado

The Hopi Tribe claims 21,060 acre-feet annually from the main stem of the Little Colorado River to irrigate 7,400 acres of land on the 1882 Reservation. An off-stream storage reservoir complex of 11,500 acre-feet capacity is required to firm up direct flow water supplies from the main stem of the Little Colorado. Location of the project is shown in Figure 7.

4. Evaporative Uses and First Fillings for Irrigation Storage Facilities

The Hopi Tribe claims the right for first-filling and to replace evaporative losses for the projects identified in Section X.B.2 and 3. The Tribe claims 15,700 acre-feet of water for the first time filling of reservoirs and 2,842 acre-feet annually for evaporation from the proposed storage facilities.

C. Ceremonial and Subsistence Irrigation

The Tribe claims 12,546 acre-feet per year for future irrigation of small family garden plots for ceremonial and subsistence purposes. Such ceremonial and subsistence gardens have historically and contemporaneously been located near the villages. Future gardens would require a total of 3,136 acres of arable land surrounding the villages, as follows: Moenkopi – 754 acres, Hotevilla – 386 acres, Bacavi – 197 acres, Kykotsmovi and Old Oraibi – 647 acres, First Mesa Villages – 542 acres, Second Mesa Villages – 484 acres, Keams Canyon – 126 acres. Subject to Section X.J., the source is groundwater.

D. Domestic, Commercial, Municipal and Industrial Use (DCMI)

For future domestic, commercial, municipal, and industrial (DCMI) uses of water, the

Tribe asserts a claim for 11,211 acre-feet per year for the long term. The claim is for total tribal wide DCMI demands rather than on a village by a village basis. It is based on a per-capita approach in which the projected future population on the Hopi Reservation is multiplied by an estimate of per capita DCMI usage. The Tribe projects future use on the Reservation of approximately 160 gallons per capita per day (gpcpd), which includes residential indoor use, residential outdoor use, commercial use, light industrial use and public uses and system losses. The Tribe may establish communities on its ranches and use a portion of the water claimed for DCMI purposes there. Subject to Section X.J., the source is groundwater.

E. Recreation

The Hopi Tribe claims the right to continuously fill existing recreational lakes on the Reservation to their maximum capacities, which have an aggregate capacity of 139 acre-feet. Water use is for camping, fishing, stockwater[5] and evaporation from lakes. The names, locations, types, dimensions and evaporation are shown on Table 3. The sources of water for the recreation lakes are the watersheds tributary to the lakes.

Table 3
Recreational Lakes

IDENTIFICATION		LOCATION			TYPE	NWS	CAPACITY	EVAP.
No.	Name	Sec.	Twn.	Rge.	DAM	(acres)	(AF)	(AF)
1.	Keams Lake	23	28N	20E	E	3.2	27.8	12.8
2.	Lake Maho	23	28N	20E	E	1.0	7.4	4.0
3.	Twin Dam No. 1	13	28N	20E	E	1.7	11.0	6.8
4.	Twin Dam No. 2	18	28N	21E	E	8.3	92.6	33.2
	Total					14.2	138.8	56.8

[5] The recreational lakes are also used for stockwater purposes but are not included with the impoundments identified for the stockwater claims.

F. Springs, Stock Ponds and Wells

The Hopi Tribe claims a total of 8,871 acre-feet per year for present and future stockwater needs, and for present and future stockwater use of existing springs and wells.

1. Present Use

The Hopi Tribe claims 7,961 acre-feet annually for current use from springs, stock ponds and wells. The Hopi have historically used springs, stock ponds and wells for a variety of uses and continue to use these resources today, including for stock purposes. Below is a summary of the information submitted about the current stockwater facilities.[6]

a. 1882 Reservation Area.

Impoundments. Table 1 of Appendix 2 documents 554 impoundments within the 1882 Hopi Reservation with a claimed storage capacity of 4,340 acre-feet. The Hopi Tribe claims the right to continuously fill these facilities.

Wells. Table 2 of Appendix 2 documents 289 springs used for cultural and livestock purposes within the 1882 Hopi Reservation with a claimed annual water requirement of 1,888 acre-feet for domestic and stockwater purposes.

Springs. Table 3 of Appendix 2 identifies 199 livestock wells with a claimed annual water use of 1,345 acre-feet for cultural, domestic, stock and irrigation uses.

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[6] Tables 1 through 3 of Appendix 2 list the claims by impoundments, wells and springs. Appendix 3 contains several plates showing their locations.

b. 1934 Act Area.

Impoundments. Table 1 of Appendix 2 identifies three livestock impoundments within the 1934 Act area with a claimed storage capacity of 23 acre-feet. The Hopi Tribe claims the right to continuously fill these facilities.

Wells. Table 2 of Appendix 2 documents seven wells within the area for domestic and livestock uses. The claimed annual water requirement is 46 acre-feet per year.

Springs. Table 3 of Appendix 2 documents 49 springs from which the Tribe claims 319 acre-feet per year for cultural, domestic, stock and irrigation uses.

2. Future Stockwater Use

In addition to the current stockwater use, the Tribe claims 910 acre-feet per year for future stockwater needs. The Hopi Tribe is currently updating their range and livestock watering plans. Potential stocking rates have been estimated for livestock on the 1882 and 1934 Reservation areas and facilities are being planned to meet these needs by grazing unit. In some instances, the locations of future impoundment facilities have been established while others are categorized as potential sites. Estimates have been made of the total capacity needed to meet future livestock watering needs. The Tribe will modify the amount claimed once the present planning process is completed.

G. Tourism Projects

Water for small commercial institutions such as restaurants, grocery stores, etc., are included in the claim for DCMI use. In addition to those claims the Hopi Tribe claims 1,594

acre-feet annually for future larger scale tourism projects. The proposed project and water requirements in acre-feet annually are shown in Table 4. Subject to Section X.J., the source is groundwater.

Table 4
Tourism Projects

	Proposed Project	Water Requirements (acre-feet)
1.	Resort Facility (near Moenkopi)	522
2.	Resort Facility (near Keams Canyon)	516
3.	Resort Facility (Hopi industrial park)	556
	Total	1,594

H. Mining and Related Industry

1. Mining and Slurry Use

The Tribe claims 6,000 acre-feet per year for present and future mining and slurry needs. This quantity is based on the amount currently used and projected for future use by Peabody Coal Company in its mining activities at the mine at Black Mesa (approximately 400 acre-feet per year), and for the slurry of the coal to the Mohave Generating Station, which is presently approximately 4000 acre-feet per year and is projected to increase to approximately 5,600 acre-feet per year after 2005.

There is sufficient coal of high quality on Hopi lands for at least two additional mines should the Tribe choose to develop such coal. The Tribe asserts the right to mine its vast reserves of coal presently and in the future when Peabody ceases its current mining activity. The Tribe

also asserts the right to transport coal by way of the slurry pipeline currently used by Peabody when Peabody ceases its use of the slurry. The general location of the possible future coal mines and well fields are shown in Figure 8. The exact location of wells and the distance from which the water would be drawn cannot currently be known, nor can contractual arrangements as to its use. Subject to Section X.J., the source is groundwater.

2. Other Mineral and Industrial Use

The Hopi Tribe claims 19,000 acre-feet of water annually for other mineral and industrial uses; 15,000 acre-feet per year for a coal-fired 1,200 megawatt power generating plant and 4,000 acre-feet annually for other development of coal, oil, gas and minerals, including manufacturing of fertilizer or other products. Subject to Section X.J., the source is groundwater.

I. Ranches

1. State rights

The Hopi Tribe claims water for the five ranches based on state law as provided in Section 12(a)(1)(B) of the Navajo-Hopi Land Dispute Settlement Act of 1996. A summary of the amounts claimed for present irrigation and non-irrigation uses is set out in Table 5. The water uses on each ranch property and water right abstracts are set out in Appendix 3.[7] Abstracts for water uses on state land leased by the Tribe and on federal lands where the Hopi Tribe is permitted to use the lands are also included.

---

[7] Appendix 4 is a series of spreadsheets saved on a compact disk. The compact disk also contains a "read me" document providing instructions to the user.

Table 5
Present Water Uses on Hopi Ranches[8]

	Irrigation Use		Non-Irrigation Uses		Total	Total
Ranch	Annual AF	Storage AF	Annual AF	Storage AF	Annual AF	Storage AF
26 Bar Ranch	507.00	184.00	302.99	67.33	809.99	251.33
Aja Ranch			654.74	636.27	654.74	636.27
Clear Creek Ranch			604.90	912.16	604.90	912.16
Hart Ranch			275.17	235.99	275.17	235.99
Drye Ranch			21.33	53.02	21.33	53.02
Total	507.00	184.00	1859.13	1904.77	2366.13	2088.77

2. Rights pursuant to Navajo-Hopi Land Dispute Settlement Act

The Tribe asserts the additional rights recognized in the Navajo-Hopi Land Dispute Settlement Act for the lands of the Hopi ranches to be acquired into trust by the United States for the Tribe. Section 12(a) of the Act provides:

> (1) Water Rights.–Subject to the other provisions of this section, newly acquired trust lands shall have only the following water rights:
>
> (A) The right to the reasonable use of groundwater pumped from such lands.
>
> (B) All rights to the use of surface water on such lands existing under State law on the date of acquisition, with the priority date of such right under State law.

---

[8] Notes:

1. The above table includes water uses on deeded ranch land and associated leased state land and Forest Service permit land used by the ranches.
2. Irrigation use on the 26 Bar Ranch is for 193.5 acres. The 507 acre-feet annual use includes 217 acre-feet supplemental supply from groundwater.
3. Non-irrigation uses include domestic, stockpond, stockwater, recreation, fish, and/or wildlife.
4. The above water use amounts were based on an analysis of associated water right filings and actual use. In cases where no filings or data exist for a water use, amounts were estimated.

©) The right to make further beneficial use on such lands of surface water which is unappropriated on the date each parcel of newly acquired trust lands is taken into trust. The priority date for the right shall be the date the lands are taken into trust.

(2) Rights not subject to forfeiture or abandonment.–The Tribe's water rights for newly acquired trust lands shall not be subject to forfeiture or abandonment arising from events occurring after the date the lands are taken into trust.

The Tribe may establish communities on the ranches and use water claimed in Section X.E. for DCMI purposes on those lands.

J. Rights to Surface Water From Outside Reservation

The claims described above identify groundwater and local surface water (with the exception of the project in Section X.B.3 claiming water from the main stem of the Little Colorado River) as the source of supply. However, the groundwater resources beneath the Reservation will likely be insufficient to supply these demands. Furthermore, increasing groundwater withdrawals will impact the resources of the Reservation, reducing the flows of valuable springs and washes. Such environmental effects have already been documented as a result of prior and present pumping. As described above, the Hopi people place great value on a proper balance in the environment and protection of their resources, particularly water resources. The Tribe is gravely concerned about impacts on groundwater and related resources from continued and increased rates of pumping. While the Hopi Tribe must assert its rights to local water resources, it also believes and asserts that water must be imported to the Reservation in order to satisfy these demands and make the Reservation a permanent homeland while protecting the long-term viability of the groundwater.

Accordingly, Hopi Tribe further asserts a right to water from sources located outside the boundaries of its lands, including from the main stem of the Little Colorado River and the Colorado River, Lake Powell and the Coconino Aquifer, if needed to supply any of the demands, or any part of said demands, identified in this Amended Statement of Claimant.

XI. CONCLUSION

Respectfully submitted this 29th day of January, 2004.

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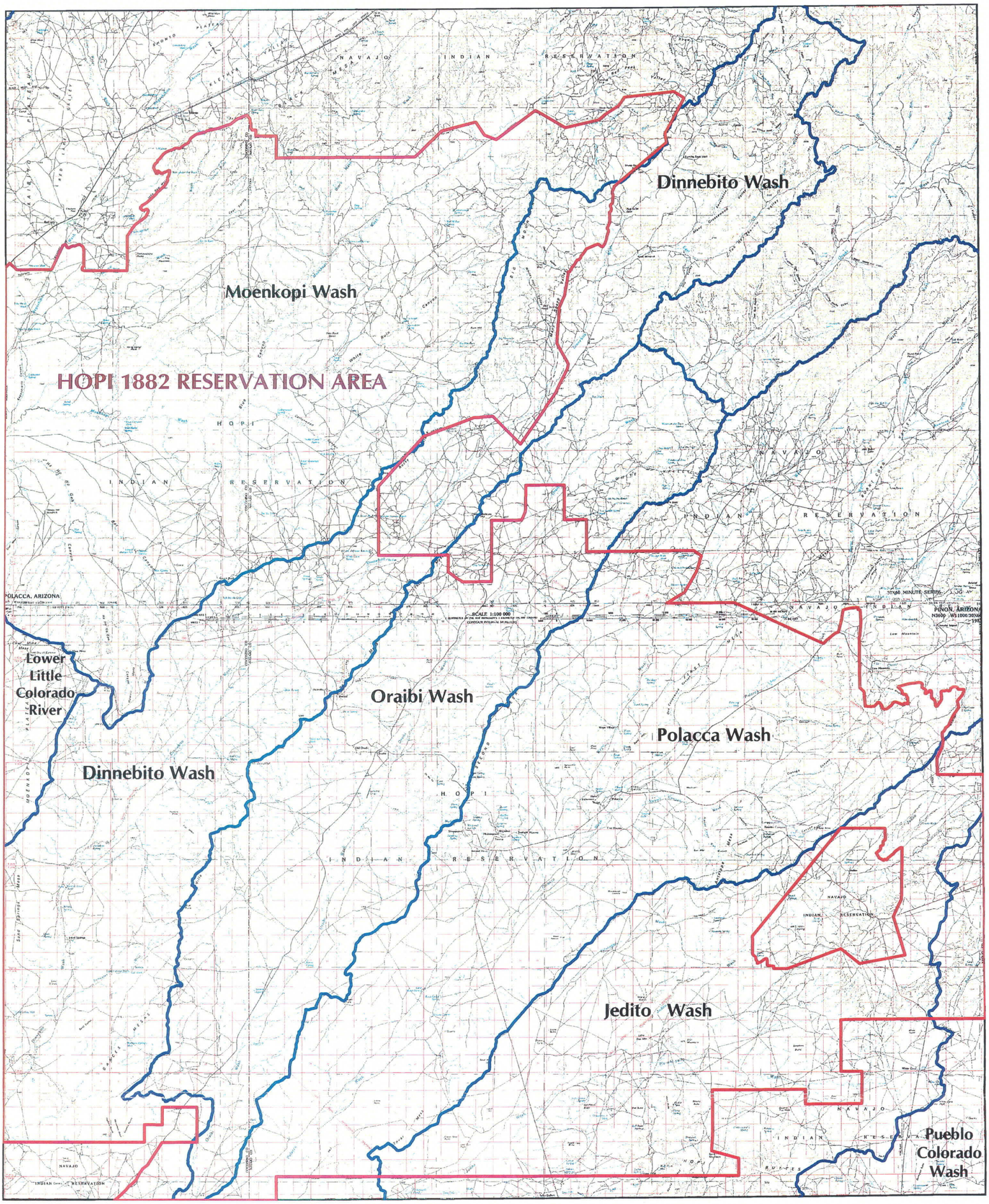
FIGURES

Figure 1



N
W E
S

1 Inch equals 29,200 Feet

LEGEND
Hopi 1882 Reservation Area
Drainages

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HOPI 1882 RESERVATION AREA

FIGURE NO.
1

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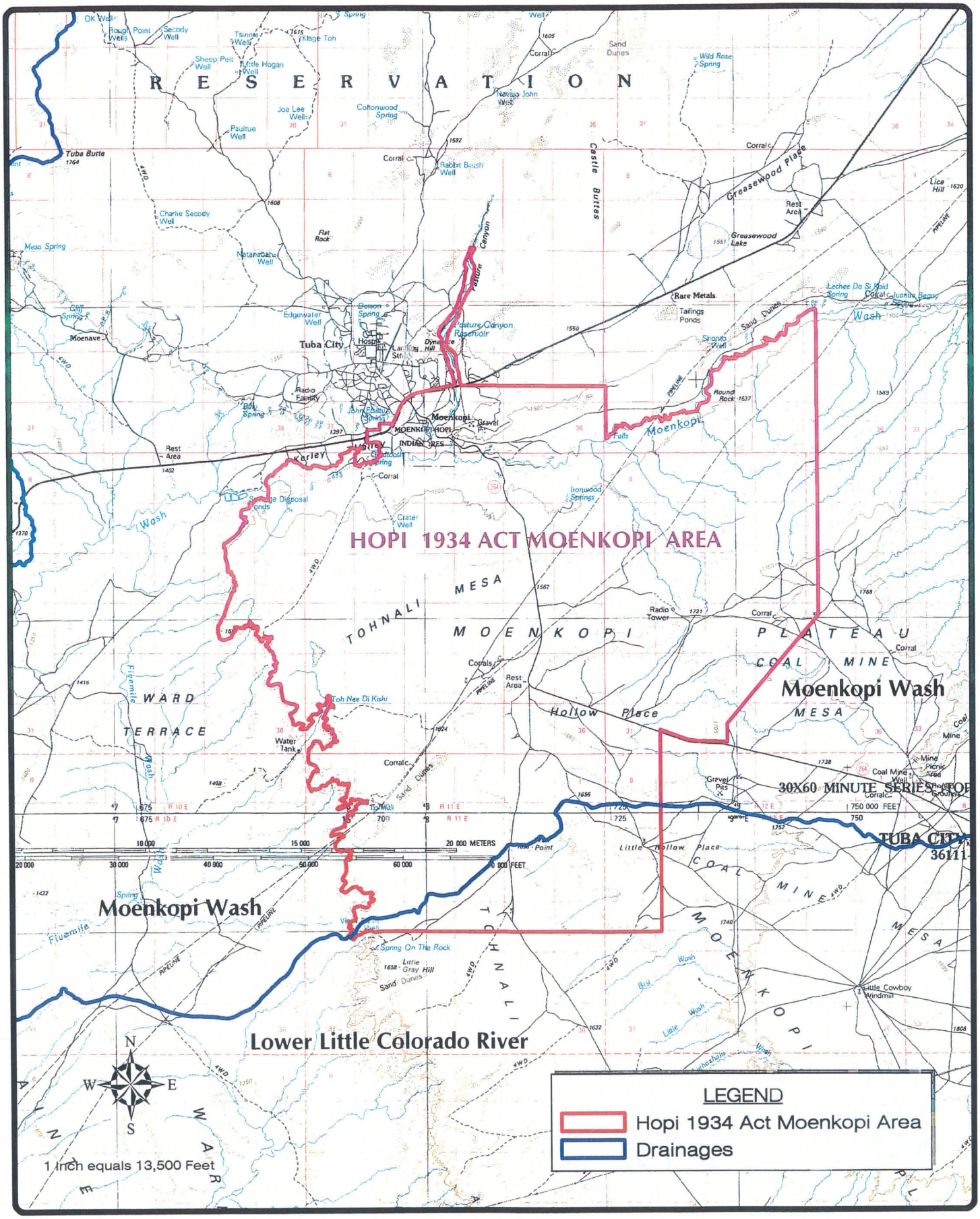
Figure
2



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HOPI 1934 ACT MOENKOPI AREA

FIGURE NO.

2

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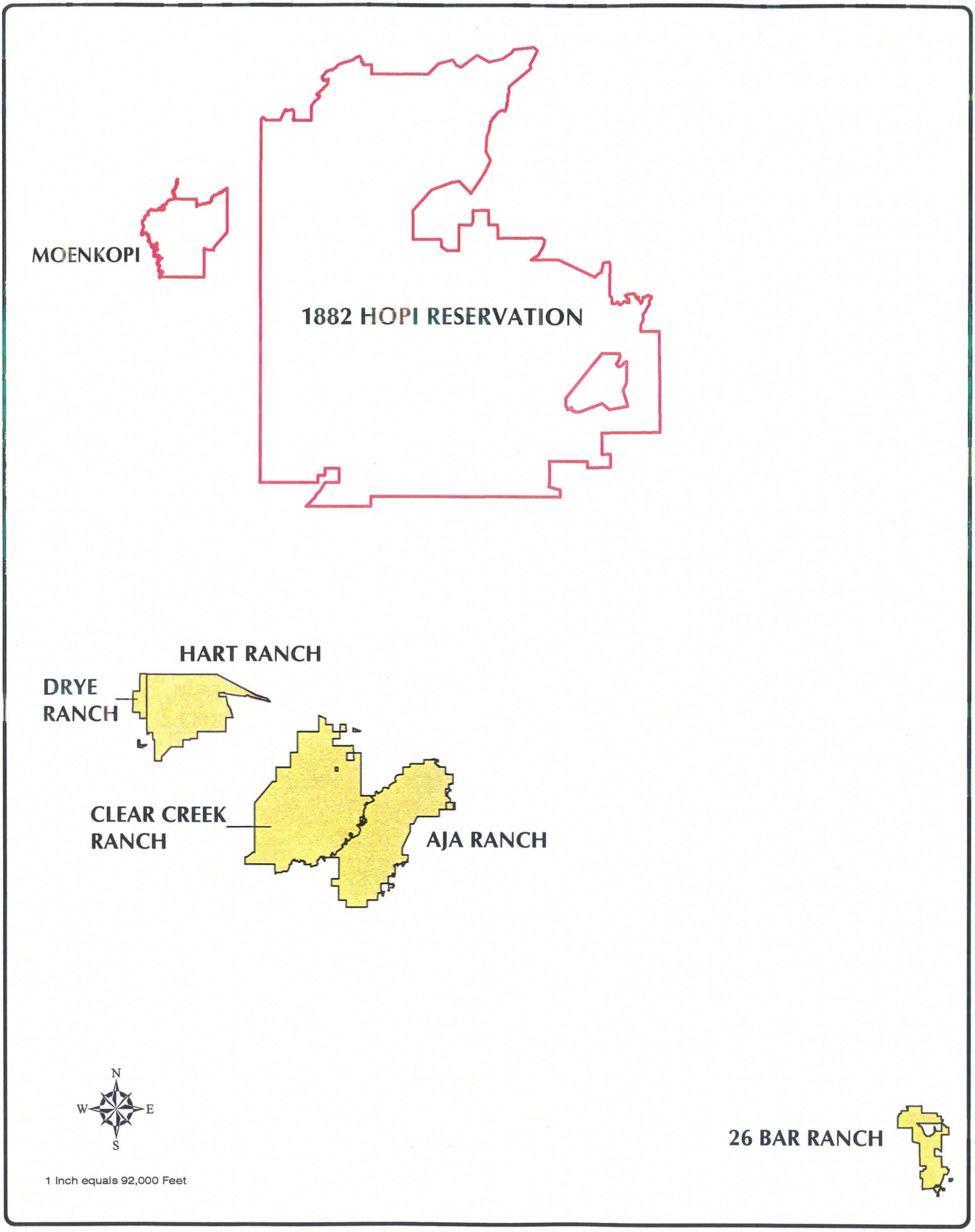
Figure 3



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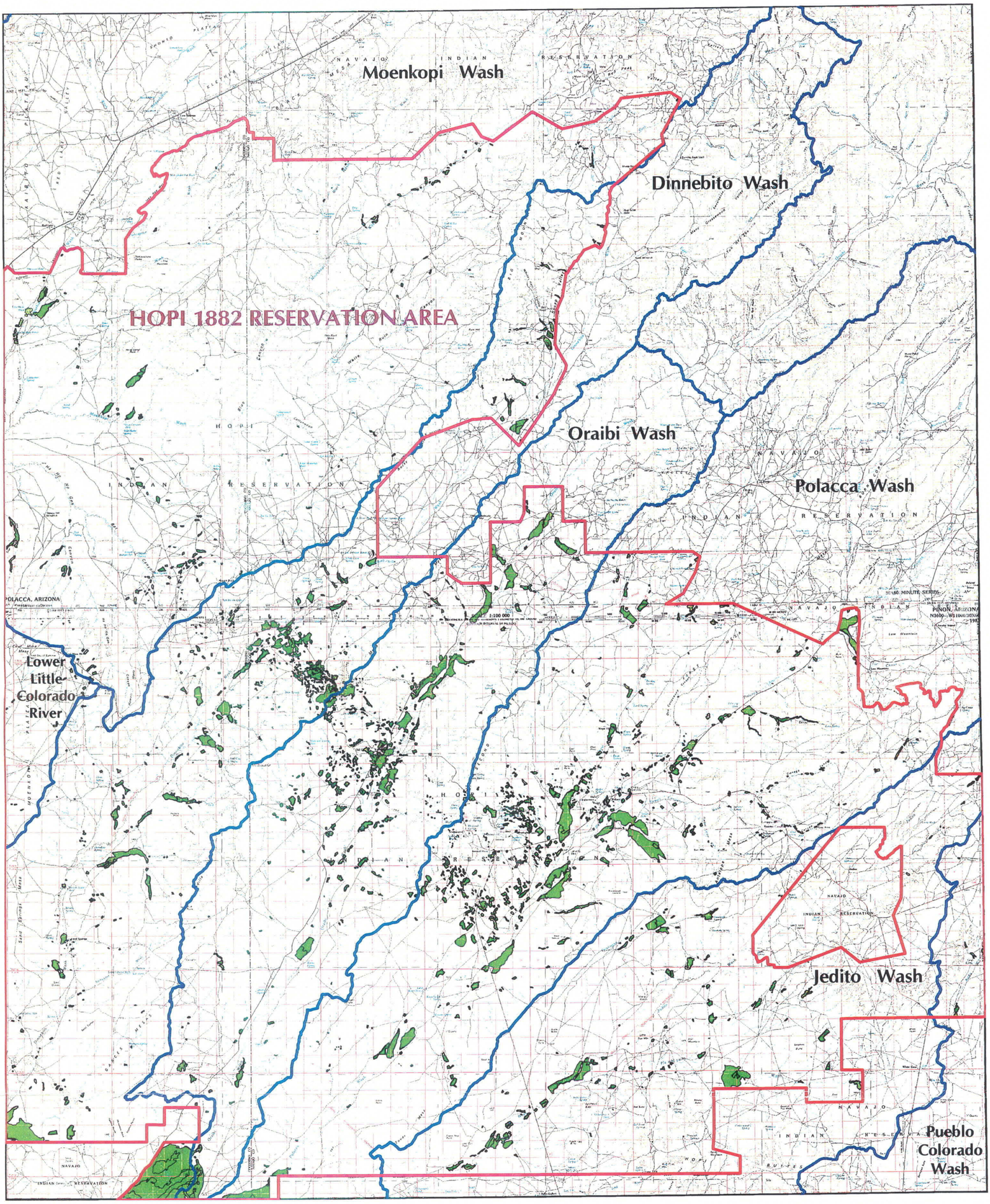
THE HOPI RESERVATION AND ACQUIRED RANCHES

FIGURE NO.
3

Figure
4



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LEGEND
- Hopi 1882 Reservation Area
- Historically Irrigated Lands
- Drainages

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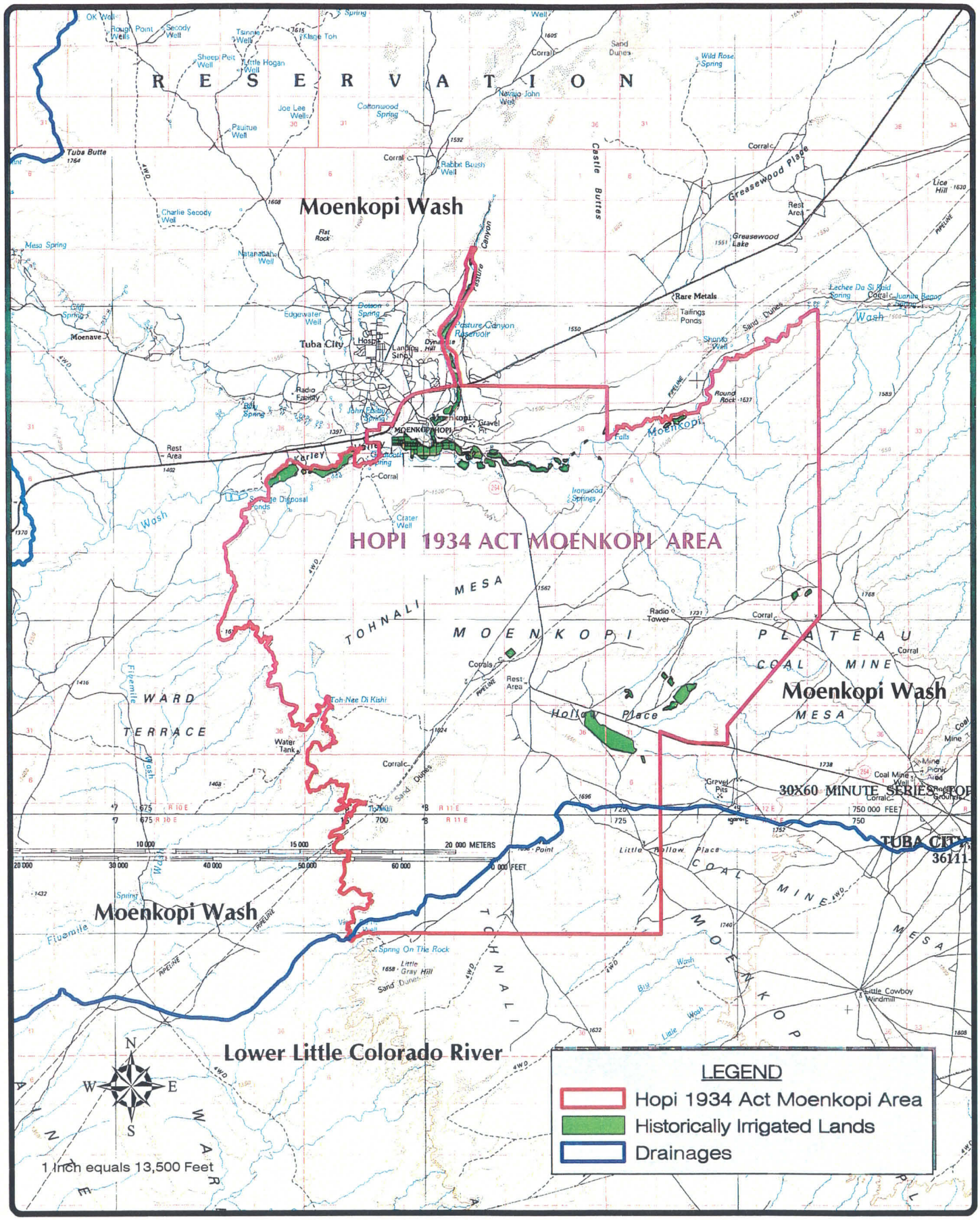
HOPI 1882 RESERVATION AREA
HISTORICALLY IRRIGATED LANDS

FIGURE NO.
4

Figure 5



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HOPI 1934 ACT MOENKOPI AREA

HISTORICALY IRRIGATED LANDS

FIGURE NO.

5

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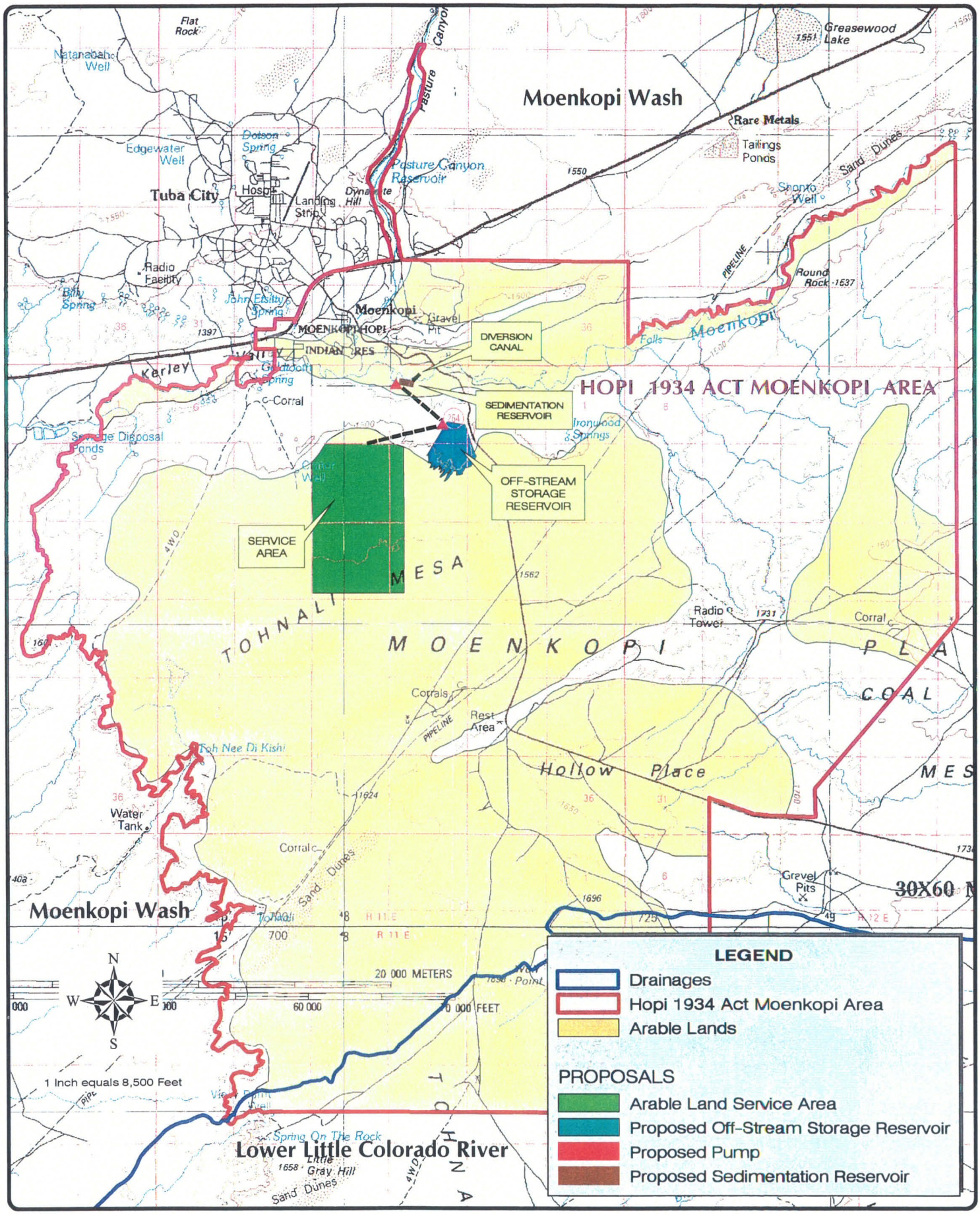
Figure 6



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HOPI 1934 ACT MOENKOPI AREA

MOENKOPI IRRIGATION PROJECT

FIGURE NO.

6

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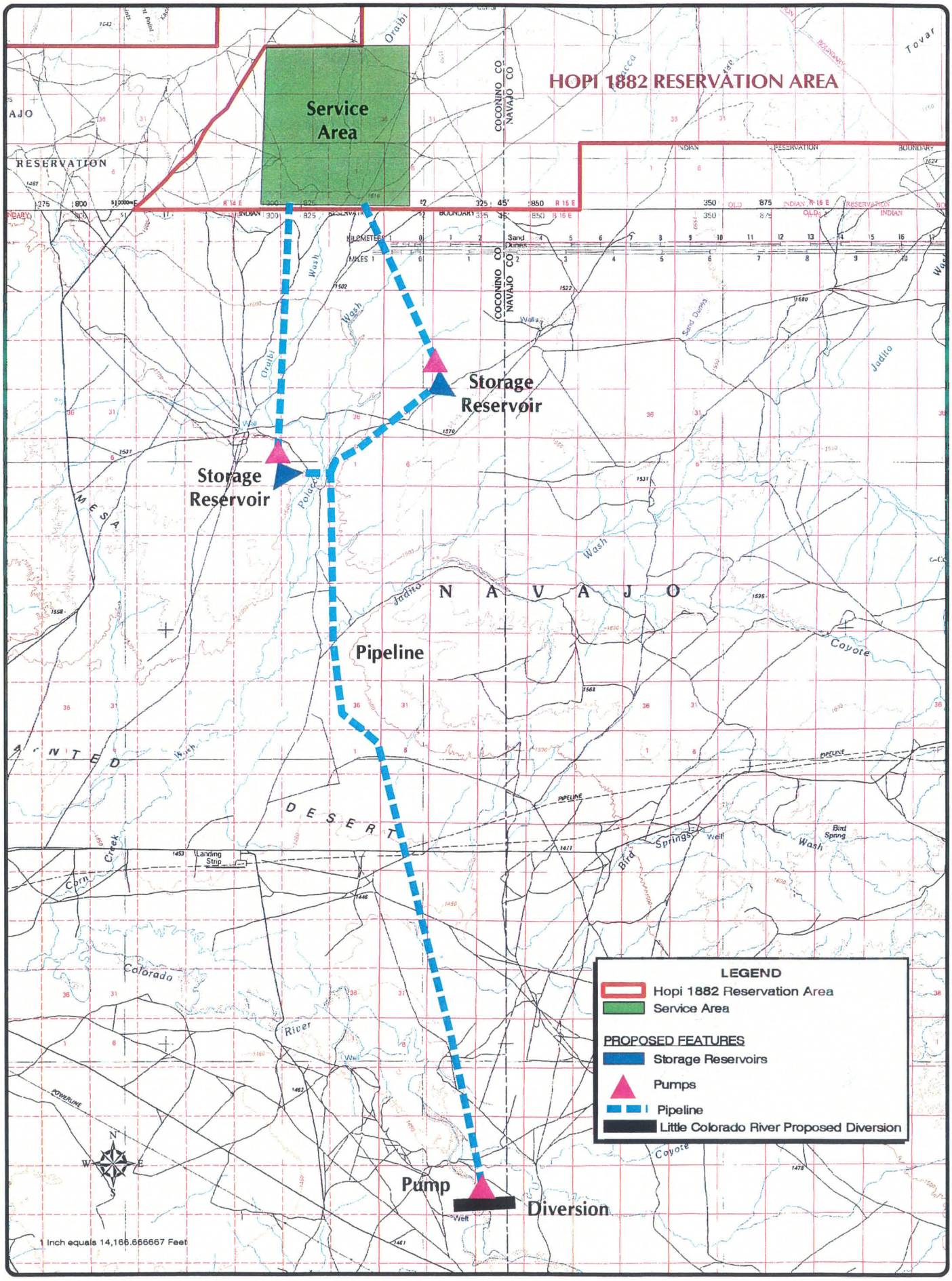
Figure
7



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MAINSTREAM LCR PROJECT

FIGURE NO.
7

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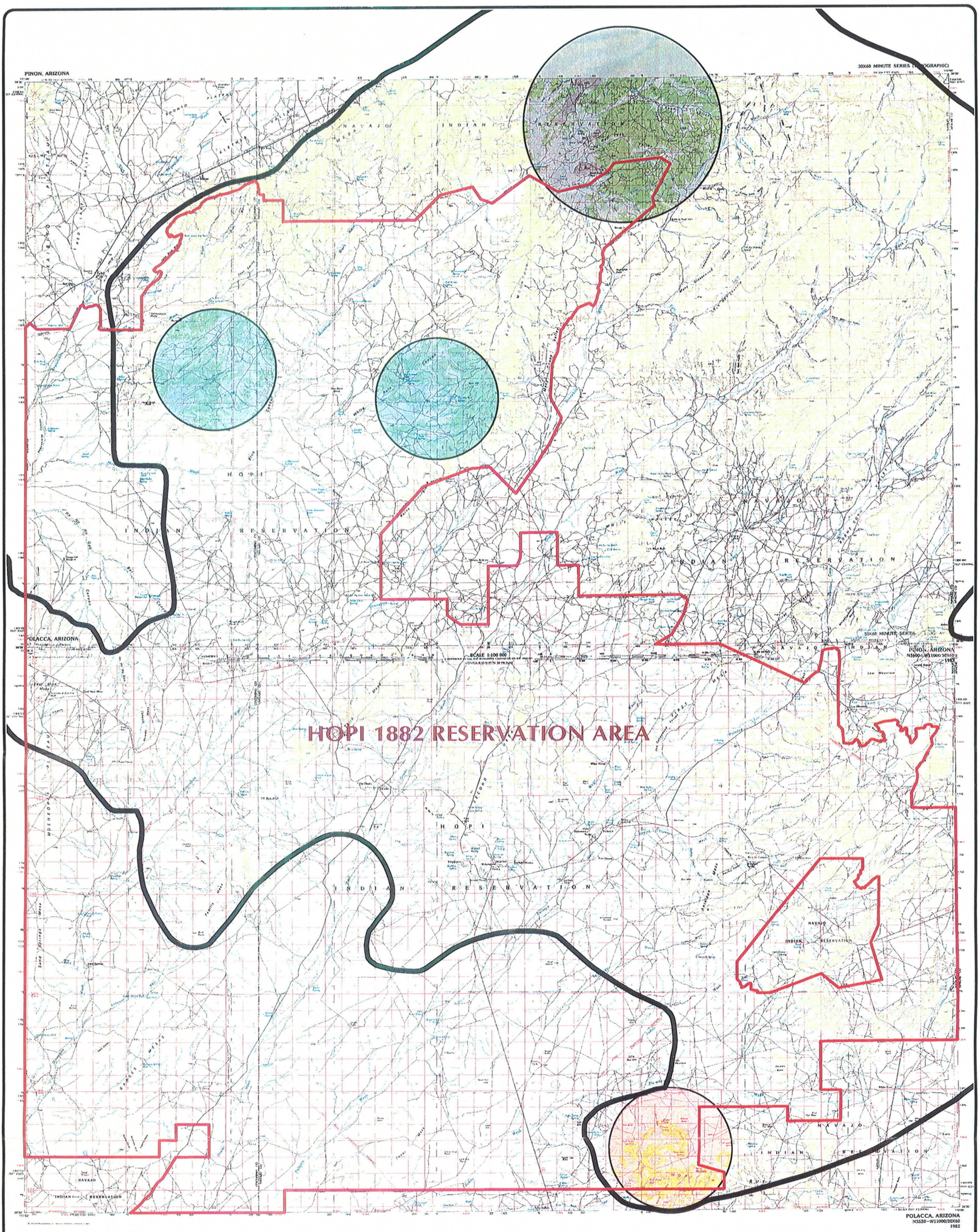
Figure 8



LEGEND

MINERAL DEVELOPMENT PLAN

- Present Mining / Slurry Use Area
- Proposed Coal Mining / Slurry Pipeline Area
- Proposed Power Plant Site
- Estimated Coal Resources Boundary
- Hopi 1882 Reservation Area

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HOPI 1882 RESERVATION AREA
MINERAL DEVELOPMENT PLAN

FIGURE NO.
8

APPENDIX 1

Hopi Population Regions and Long-Term DCMI Demands
(Based on 160 Gallons Per Capita Per Day)

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
MOENKOPI WASH BASIN	Existing Village Areas	Moenkopi[1]	9,342	1,494,694	1,675
		Subtotal	*9,342*	*1,494,694*	*1,675*
	Existing Rural Areas	Rural Areas in Moenkopi Wash Basi	3,661	585,715	657
		Subtotal	*3,661*	*585,715*	*657*
	Future Hopi Villages	Lower Moenkopi[1]	3,001	480,094	538
		Howell Mesa East	1,400	224,044	251
		Howell Mesa West	1,400	224,044	251
		Side Rock Well	1,200	192,038	215
		Subtotal	*7,001*	*1,120,220*	*1,256*
		Total	*20,004*	*3,200,629*	*3,588*

1. Located on Hopi Island

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
DINNEBITO WASH BASIN	Existing Village Areas	Hotevilla	4,783	765,288	858
		Subtotal	*4,783*	*765,288*	*858*
	Existing Rural Areas	Rural Areas in Dinnebito Wash Basi	1,468	234,909	263
		Subtotal	*1,468*	*234,909*	*263*
	Future Hopi Villages	*none*			
		Subtotal	*0*	*0*	*0*
		Total	*6,251*	*1,000,196*	*1,121*

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
ORAIBI WASH BASIN	Existing Village Areas	Bacavi	2,438	390,077	437
		Kykotsmovi (Old Oraibi)	6,875	1,100,016	1,233
		Second Mesa (portion)	1,138	182,036	204
		Subtotal	*10,451*	*1,672,128*	*1,874*
	Existing Rural Areas	Rural Areas in Oraibi Wash Basin	1,251	200,239	224
		Subtotal	*1,251*	*200,239*	*224*
	Future Hopi Villages	South Oraibi	2,113	338,066	379
		Tawaovi (Turquise)	2,438	390,077	437
		Subtotal	*4,551*	*728,143*	*816*
		Total	*16,253*	*2,600,511*	*2,915*

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
POLACCA WASH BASIN	Existing Village Areas	Along Highway 264	489	78,219	88
		First Mesa Villages[2]	6,222	995,459	1,116
		Second Mesa Villages[3]	5,996	959,357	1,075
		Keams Canyon	1,559	249,366	280
		Subtotal	*14,265*	*2,282,401*	*2,558*
	Existing Rural Areas	Rural Areas in Polacca Wash Basin	113	18,051	20
		Subtotal	*113*	*18,051*	*20*
	Future Hopi Villages	*none*			
		Subtotal	*0*	*0*	*0*
		Total	*14,378*	*2,300,452*	*2,579*

2. Includes: Hano (Tewa), Polacca, Sichomovi, Walpi, and Wepo.
3. Includes: Mishongnovi, Second Mesa, Shungopavi, Sipaulovi, Sunlight Mission, and Toreva.

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
JEDITTO WASH BASIN	Existing Village Areas	*none*			
		Subtotal	*0*	*0*	*0*
	Existing Rural Areas	Rural Areas in Jeditto Wash Basin	3,063	490,096	549
		Subtotal	*3,063*	*490,096*	*549*
	Future Hopi Villages	Spider Mound	1,313	210,041	235
		Subtotal	*1,313*	*210,041*	*235*
		Total	*4,376*	*700,138*	*785*

Population Region		Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
HOPI INDUSTRIAL PARK	Existing Village Areas	Hopi Industrial Park	1,250	200,000	224
		Subtotal	*1,250*	*200,000*	*224*
	Existing Rural Areas	*none*			
		Subtotal	*0*	*0*	*0*
	Future Hopi Villages	*none*			
		Subtotal	*0*	*0*	*0*
		Total	*1,250*	*200,000*	*224*

Total Hopi	***62,512***	***10,001,925***	***11,211***

Estimate of Future Hopi Population and Geographic Distribution
(By Northwest Economic Associates)

Population	Location[1]	Year and Population												Stabilization	100-Year Growth
		2000	2005	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100		
MOENKOPI WASH BASIN	Moenkopi	885	1,065	1,232	1,676	2,257	3,001	3,917	4,926	5,958	6,896	7,494	7,866	9,342	2.1%
	Lower Moenkopi (on Hopi Island)	0	10	24	67	143	266	458	730	1,093	1,541	2,015	2,527	3,001	6.0%
	Howell Mesa East	0	5	11	31	67	124	214	341	510	719	940	1,179	1,400	6.0%
	Howell Mesa West	0	5	11	31	67	124	214	341	510	719	940	1,179	1,400	6.0%
	Side Rock Well	0	4	9	27	57	106	183	292	437	616	806	1,011	1,200	6.0%
	Rural Areas in Moenkopi Wash Basin	198	243	288	410	580	810	1,116	1,484	1,905	2,350	2,732	3,083	3,661	2.7%
	Village Areas Total	885	1,088	1,287	1,834	2,590	3,621	4,985	6,630	8,509	10,492	12,196	13,762	16,343	2.7%
	Total Moenkopi Population	*1,083*	*1,331*	*1,575*	*2,244*	*3,169*	*4,431*	*6,101*	*8,115*	*10,414*	*12,841*	*14,928*	*16,845*	*20,004*	2.7%
DINNEBITO WASH BASIN	Hotevilla	417	494	565	756	1,009	1,340	1,760	2,241	2,763	3,282	3,686	4,028	4,783	2.2%
	Rural Areas in Dinnebito Wash Basin	128	152	174	232	310	411	540	688	848	1,008	1,132	1,236	1,468	2.2%
	Village Areas Total	417	494	565	756	1,009	1,340	1,760	2,241	2,763	3,282	3,686	4,028	4,783	2.2%
	Total Dinnebito Population	*545*	*646*	*739*	*988*	*1,319*	*1,751*	*2,300*	*2,929*	*3,611*	*4,290*	*4,818*	*5,264*	*6,251*	2.2%
ORAIBI WASH BASIN	Bacavi	279	328	372	489	639	829	1,060	1,313	1,570	1,804	1,954	2,053	2,438	1.9%
	Kykotsmovi (Old Oraibi)	764	900	1,021	1,344	1,760	2,289	2,938	3,649	4,377	5,047	5,487	5,789	6,875	2.0%
	Second Mesa (portion)	87	104	120	163	221	297	396	510	637	765	868	958	1,138	2.4%
	South Oraibi	0	10	22	60	122	219	365	565	824	1,133	1,449	1,779	2,113	5.7%
	Tawaovi (Turquise)	0	11	25	69	140	253	421	652	951	1,307	1,672	2,053	2,438	5.7%
	Rural Areas in Oraibi Wash Basin (To	94	113	130	177	240	324	432	557	697	838	953	1,054	1,251	2.4%
	Village Areas Total	1,130	1,353	1,561	2,125	2,882	3,887	5,180	6,690	8,359	10,057	11,430	12,632	15,002	2.4%
	Total Oraibi Population	*1,224*	*1,465*	*1,691*	*2,302*	*3,122*	*4,211*	*5,612*	*7,247*	*9,055*	*10,895*	*12,383*	*13,686*	*16,253*	2.4%
POLACCA WASH BASIN	Along Highway 264	117	133	147	181	221	269	321	370	411	435	432	412	489	1.2%
	First Mesa Villages	1,489	1,698	1,866	2,300	2,818	3,422	4,090	4,715	5,227	5,539	5,495	5,239	6,222	1.2%
	Second Mesa Villages	1,435	1,636	1,798	2,217	2,716	3,298	3,942	4,544	5,037	5,339	5,296	5,049	5,996	1.2%
	Keams Canyon	373	425	467	576	706	857	1,025	1,181	1,309	1,388	1,377	1,312	1,559	1.2%
	Rural Areas in Polacca Wash Basin (T	27	31	34	42	51	62	74	85	95	100	100	95	113	1.2%
	Village Areas Total	3,414	3,893	4,279	5,274	6,461	7,846	9,378	10,810	11,985	12,701	12,599	12,012	14,265	1.2%
	Total Polacca Population	*3,441*	*3,924*	*4,313*	*5,315*	*6,512*	*7,908*	*9,452*	*10,896*	*12,079*	*12,801*	*12,699*	*12,107*	*14,378*	1.2%
JEDITTO WASH BASIN	Spider Mound	0	4	9	27	58	110	192	310	468	665	876	1,105	1,313	6.1%
	Rural Areas in Jeditto Wash Basin (To	209	256	302	425	590	809	1,089	1,412	1,762	2,106	2,369	2,579	3,063	2.5%
	Village Areas Total	0	4	9	27	58	110	192	310	468	665	876	1,105	1,313	6.1%
	Total Jeditto Population	*209*	*260*	*311*	*452*	*649*	*920*	*1,281*	*1,722*	*2,230*	*2,772*	*3,245*	*3,685*	*4,376*	2.8%
HOPI INDUSTRIAL PARK	Hopi Industrial Park	131	154	174	228	299	389	502	628	760	888	980	1,053	1,250	2.0%
	Rural Areas	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Village Areas Total	131	154	174	228	299	389	502	628	760	888	980	1,053	1,250	2.0%
	Total Hopi Industrial Park Population	*131*	*154*	*174*	*228*	*299*	*389*	*502*	*628*	*760*	*888*	*980*	*1,053*	*1,250*	2.0%

1. Hopi future villages are identified in red.

Total	Rural Areas Total	656	795	927	1,286	1,771	2,417	3,251	4,227	5,306	6,403	7,285	8,047	9,556	2.5%
	Village Areas Total	5,977	6,985	7,876	10,244	13,299	17,194	21,996	27,309	32,843	38,085	41,768	44,592	52,956	2.0%
	Hopi Total	**6,633**	**7,780**	**8,803**	**11,530**	**15,070**	**19,611**	**25,247**	**31,536**	**38,150**	**44,487**	**49,052**	**52,639**	**62,512**	**2.0%**

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APPENDIX 2

Table 1.
Livestock Impoundments

TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	COORDINATES /3 X	Y	DRAINAGE	MIArea
Dinnebito Wash								
I	3	50	1.72	8.95	554866	4017661	DINNEBITO WASH	No
I	3	54	0.57	2.30	551683	4012429	DINNEBITO WASH	No
I	3	55	0.51	1.21	551654	4012772	DINNEBITO WASH	No
I	3	87	0.86	4.13	550188	4020861	DINNEBITO WASH	No
I	3	88	1.81	9.40	552182	4020573	DINNEBITO WASH	No
I	3	89	0.28	1.11	552180	4020851	DINNEBITO WASH	No
I	6	82	1.43	12.90	536835	3988351	DINNEBITO WASH	No
I	6	83	2.81	13.49	530710	3985621	DINNEBITO WASH	No
I	6	98	0.13	0.41	529400	3989432	DINNEBITO WASH	No
I	6	113	0.23	1.01	541879	4001683	DINNEBITO WASH	No
I	6	115	0.92	4.41	522627	3985563	DINNEBITO WASH	No
I	7	94	0.23	1.10	548726	4001386	DINNEBITO WASH	No
I	7	95	0.23	1.10	545823	4000938	DINNEBITO WASH	No
I	7	103	0.23	1.10	548471	4001939	DINNEBITO WASH	No
I	7	105	0.46	2.20	546905	4000389	DINNEBITO WASH	No
I	7	112	5.17	37.19	547510	4000115	DINNEBITO WASH	No
I	7	117	0.23	1.10	549345	4001700	DINNEBITO WASH	No
I	7	120	0.34	1.63	546901	4001254	DINNEBITO WASH	No
I	7	123	3.73	22.38	549409	4003109	DINNEBITO WASH	No
I	7	130	0.23	1.19	550584	4003648	DINNEBITO WASH	No
I	7	134	0.29	1.38	548933	4004648	DINNEBITO WASH	No
I	7	135	0.70	3.94	548879	4004648	DINNEBITO WASH	No
I	7	136	0.29	1.49	548432	4004124	DINNEBITO WASH	No
I	8	48	2.75	12.12	520228	3982629	DINNEBITO WASH	No
I	8	49	0.52	2.48	519684	3971725	DINNEBITO WASH	No
I	8	51	0.92	5.14	517534	3977455	DINNEBITO WASH	No
I	8	52	0.69	3.31	519909	3979955	DINNEBITO WASH	No
I	8	53	0.52	2.48	518916	3976371	DINNEBITO WASH	No
I	8	56	2.30	5.50	518735	3980906	DINNEBITO WASH	No
I	8	57	0.34	0.55	519008	3971224	DINNEBITO WASH	No
I	8	58	0.40	1.93	518030	3982036	DINNEBITO WASH	No
I	8	59	1.43	8.03	515665	3973259	DINNEBITO WASH	No
I	8	60	1.15	5.51	520885	3983030	DINNEBITO WASH	No
I	8	61	0.86	4.48	520785	3983285	DINNEBITO WASH	No
I	8	62	2.75	19.83	520154	3983283	DINNEBITO WASH	No
I	8	63	0.92	11.20	521532	3983708	DINNEBITO WASH	No
I	8	64	4.59	27.55	514685	3960281	DINNEBITO WASH	No
I	8	65	0.46	0.92	516031	3980624	DINNEBITO WASH	No
I	8	66	3.44	6.89	517244	3973594	DINNEBITO WASH	No
I	8	67	0.11	0.18	519081	3971047	DINNEBITO WASH	No
I	8	68	0.52	2.89	517806	3981359	DINNEBITO WASH	No
I	8	79	0.92	8.50	518348	3971933	DINNEBITO WASH	No
I	8	81	0.69	3.86	517754	3970945	DINNEBITO WASH	No
I	8	85	12.40	123.97	507092	3974512	DINNEBITO WASH	No
I	8	86	0.92	5.14	514515	3970173	DINNEBITO WASH	No
I	8	90	0.70	3.94	515497	3971218	DINNEBITO WASH	No
I	8	91	0.23	0.46	512610	3970880	DINNEBITO WASH	No
I	8	104	1.89	9.85	513329	3960345	DINNEBITO WASH	No
I	8	106	5.51	48.48	513177	3959324	DINNEBITO WASH	No
I	8	107	0.86	4.13	515495	3956988	DINNEBITO WASH	No
I	8	108	1.84	8.82	510991	3965765	DINNEBITO WASH	No
I	8	109	1.15	6.89	509331	3963878	DINNEBITO WASH	No
I	8	110	1.72	6.89	507680	3961414	DINNEBITO WASH	No
I	8	111	0.36	1.72	507628	3958985	DINNEBITO WASH	No
I	8	116	0.72	2.87	520611	3968921	DINNEBITO WASH	No
I	8	118	0.92	4.41	517352	3969191	DINNEBITO WASH	No
I	8	119	0.70	4.50	521748	3965541	DINNEBITO WASH	No
I	8	121	0.92	5.80	512216	3968040	DINNEBITO WASH	No
I	8	124	0.39	1.86	512700	3964193	DINNEBITO WASH	No
I	8	125	0.05	0.25	513132	3959202	DINNEBITO WASH	No

			Table 1.					
			Livestock Impoundments					
					COORDINATES /3			
TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	X	Y	DRAINAGE	MIArea
I	8	126	0.92	8.30	511546	3963115	DINNEBITO WASH	No
I	8	129	0.86	3.44	517144	3959797	DINNEBITO WASH	No
I	8	131	1.89	12.88	515643	3960593	DINNEBITO WASH	No
I	8	132	0.52	4.70	514938	3960348	DINNEBITO WASH	No
I	8	137	0.92	7.90	512042	3963205	DINNEBITO WASH	No
I	8	303	0.23	0.92	515364	3975232	DINNEBITO WASH	No
I	8	558	0.92	5.14	516159	3978650	DINNEBITO WASH	No
I	9	96	0.70	3.94	522863	3971023	DINNEBITO WASH	No
I	9	127	0.92	2.20	524414	3981164	DINNEBITO WASH	No
I	9	128	0.52	2.89	524509	3982862	DINNEBITO WASH	No
I	12	69	1.61	10.28	513918	3954124	DINNEBITO WASH	No
I	12	70	0.69	3.58	510852	3954120	DINNEBITO WASH	No
I	12	71	1.72	10.33	505028	3954480	DINNEBITO WASH	No
I	12	72	1.61	8.36	504450	3952417	DINNEBITO WASH	No
I	12	73	1.16	8.10	500932	3948468	DINNEBITO WASH	No
I	12	74	4.02	32.16	504071	3950232	DINNEBITO WASH	No
I	12	75	5.62	67.49	506733	3947550	DINNEBITO WASH	No
I	12	76	1.38	8.82	507168	3946996	DINNEBITO WASH	No
I	12	77	4.13	34.71	506164	3946407	DINNEBITO WASH	No
I	12	78	1.38	6.61	500525	3946106	DINNEBITO WASH	No
I	12	80	5.17	45.50	511518	3942875	DINNEBITO WASH	No
I	12	92	1.43	6.89	513990	3954213	DINNEBITO WASH	No
I	12	93	0.70	18.80	513147	3931043	DINNEBITO WASH	No
I	12	97	0.92	8.80	500680	3934050	DINNEBITO WASH	No
I	12	99	0.74	13.20	502663	3939352	DINNEBITO WASH	No
I	12	100	0.92	5.14	505490	3937845	DINNEBITO WASH	No
I	12	101	1.43	11.90	507094	3938090	DINNEBITO WASH	No
I	12	102	1.03	5.40	510895	3940866	DINNEBITO WASH	No
I	12	114	0.23	0.46	513521	3935669	DINNEBITO WASH	No
I	12	122	0.92	5.10	505692	3933963	DINNEBITO WASH	No
I	12	133	1.61	2.57	505399	3953250	DINNEBITO WASH	No
I	12	393	1.03	5.79	510819	3936774	DINNEBITO WASH	No
	Subtotal Dinnebito Wash 1882 Area			880.75				
	Subtotal Dinnebito Wash 1934 Area			None				
Jedito Wash								
I	10	140	1.15	5.97	562025	3957380	JEDITO WASH	No
I	10	185	0.52	2.07	563542	3956404	JEDITO WASH	No
I	11	138	2.30	12.88	588348	3965179	JEDITO WASH	No
I	11	141	1.21	3.37	584957	3956982	JEDITO WASH	No
I	11	142	0.69	0.83	588375	3964226	JEDITO WASH	No
I	11	143	14.92	59.68	589653	3967378	JEDITO WASH	No
I	11	144	2.30	18.40	586581	3962910	JEDITO WASH	No
I	11	145	2.30	13.77	586355	3962908	JEDITO WASH	No
I	11	146	4.82	32.78	585094	3961631	JEDITO WASH	No
I	11	147	6.43	51.42	587039	3967818	JEDITO WASH	No
I	13	174	0.73	4.80	542365	3935726	JEDITO WASH	No
I	13	175	4.02	25.71	544307	3935181	JEDITO WASH	No
I	13	176	0.74	3.57	545032	3935217	JEDITO WASH	No
I	13	177	1.84	7.35	544407	3935303	JEDITO WASH	No
I	13	178	0.57	1.15	542065	3936090	JEDITO WASH	No
I	13	198	0.92	2.94	542562	3936226	JEDITO WASH	No
I	14	148	0.69	3.31	560737	3955397	JEDITO WASH	No
I	14	149	0.69	3.86	558549	3940198	JEDITO WASH	No
I	14	150	0.69	3.58	559947	3941061	JEDITO WASH	No
I	14	156	0.46	1.47	559743	3953937	JEDITO WASH	No
I	14	157	0.92	8.00	561515	3940917	JEDITO WASH	No
I	14	158	0.23	1.10	563197	3941272	JEDITO WASH	No
I	14	159	1.29	5.17	562019	3940122	JEDITO WASH	No
I	14	160	1.16	6.97	563325	3933476	JEDITO WASH	No
I	14	162	0.86	4.48	561748	3954383	JEDITO WASH	No
I	14	163	0.92	4.41	562250	3953622	JEDITO WASH	No

Table 1.								
Livestock Impoundments								
					COORDINATES /3			
TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	X	Y	DRAINAGE	MIArea
I	14	164	1.00	5.22	564792	3949846	JEDITO WASH	No
I	14	165	0.33	4.50	559890	3949535	JEDITO WASH	No
I	14	166	0.92	5.14	558860	3950737	JEDITO WASH	No
I	14	167	0.34	1.10	557430	3949430	JEDITO WASH	No
I	14	168	1.38	5.51	558941	3953510	JEDITO WASH	No
I	14	169	0.52	6.40	556684	3944367	JEDITO WASH	No
I	14	170	0.46	1.65	553580	3942629	JEDITO WASH	No
I	14	171	0.13	0.41	555749	3948953	JEDITO WASH	No
I	14	172	0.36	2.40	565238	3940855	JEDITO WASH	No
I	14	173	0.52	2.27	554099	3934647	JEDITO WASH	No
I	14	179	1.61	9.64	547086	3932489	JEDITO WASH	No
I	14	180	0.17	0.40	546432	3937997	JEDITO WASH	No
I	14	181	0.60	1.91	546602	3938275	JEDITO WASH	No
I	14	182	0.41	1.98	548242	3938317	JEDITO WASH	No
I	14	183	1.26	7.58	554127	3934469	JEDITO WASH	No
I	14	187	0.39	5.30	555812	3938938	JEDITO WASH	No
I	14	188	0.92	7.40	553418	3939423	JEDITO WASH	No
I	14	189	1.43	9.18	553533	3941398	JEDITO WASH	No
I	14	190	1.43	9.18	553643	3941504	JEDITO WASH	No
I	14	191	0.34	1.38	552722	3942103	JEDITO WASH	No
I	14	192	1.72	12.40	556356	3933152	JEDITO WASH	No
I	14	193	1.38	8.82	564516	3935548	JEDITO WASH	No
I	14	194	0.52	9.50	566472	3940653	JEDITO WASH	No
I	14	195	0.72	3.73	565173	3942363	JEDITO WASH	No
I	14	197	0.92	2.94	563623	3945091	JEDITO WASH	No
I	14	199	0.45	1.98	550842	3946306	JEDITO WASH	No
I	14	200	0.34	0.96	554453	3950797	JEDITO WASH	No
I	14	203	1.43	8.03	552331	3948622	JEDITO WASH	No
I	14	204	1.43	3.44	565596	3942765	JEDITO WASH	No
I	14	205	0.26	0.93	555810	3948000	JEDITO WASH	No
I	14	555	0.30	1.25	553944	3941579	JEDITO WASH	No
I	15	45	1.81	8.68	581968	3946783	JEDITO WASH	No
I	15	139	0.92	5.14	569275	3942360	JEDITO WASH	No
I	15	151	0.34	1.38	574367	3944254	JEDITO WASH	No
I	15	152	0.23	1.10	571140	3948198	JEDITO WASH	No
I	15	153	0.34	1.79	568168	3946234	JEDITO WASH	No
I	15	154	0.33	3.10	568187	3946056	JEDITO WASH	No
I	15	155	0.34	1.38	570930	3942684	JEDITO WASH	No
I	15	161	0.34	1.79	582765	3955486	JEDITO WASH	No
I	15	184	1.72	10.33	572738	3946403	JEDITO WASH	No
I	15	186	1.61	9.00	583792	3950161	JEDITO WASH	No
I	15	196	1.03	2.89	584746	3952632	JEDITO WASH	No
I	15	201	1.43	10.50	573096	3939219	JEDITO WASH	No
I	15	202	0.39	1.80	578106	3939172	JEDITO WASH	No
I	15	206	0.33	5.90	577031	3942025	JEDITO WASH	No
	Subtotal Jedito Wash 1882 Area			496.35				
	Subtotal Jedito Wash 1934 Area			None				
Lower Little Colorado								
I	8	84	0.23	0.73	507316	3975921	LOWER LITTLE COLORADO	No
I	8	207	2.01	9.64	501552	3975430	LOWER LITTLE COLORADO	No
I	8	208	0.69	2.75	506259	3978205	LOWER LITTLE COLORADO	No
	Subtotal Little Colorado 1882 Area			13.12				
	Subtotal Little Colorado 1934 Area			None				
Moenkopi Wash								
I	1	2	1.55	9.30	514570	4013396	MOENKOPI WASH	No
I	1	5	0.46	1.84	504868	4015016	MOENKOPI WASH	No
I	1	6	0.36	2.30	519354	4026993	MOENKOPI WASH	No
I	1	7	1.03	7.44	521003	4027275	MOENKOPI WASH	No
I	1	9	1.72	11.71	517489	4013313	MOENKOPI WASH	No
I	1	14	1.21	7.23	508255	4013233	MOENKOPI WASH	No

Table 1.
Livestock Impoundments

TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	COORDINATES /3 X	Y	DRAINAGE	MIArea
I	1	15	0.69	2.75	505388	4016503	MOENKOPI WASH	No
I	1	17	0.77	4.96	520461	4025432	MOENKOPI WASH	No
I	1	18	0.36	3.40	503844	4013696	MOENKOPI WASH	No
I	1	20	0.80	5.46	521594	4020465	MOENKOPI WASH	No
I	1	21	0.65	5.17	517646	4024317	MOENKOPI WASH	No
I	1	22	0.34	1.65	512693	4018762	MOENKOPI WASH	No
I	1	24	0.52	3.10	519102	4019195	MOENKOPI WASH	No
I	1	26	0.69	4.96	522018	4019823	MOENKOPI WASH	No
I	1	27	0.46	2.75	522148	4018038	MOENKOPI WASH	No
I	1	28	1.29	9.30	521660	4023117	MOENKOPI WASH	No
I	1	29	0.80	4.50	520030	4017567	MOENKOPI WASH	No
I	1	30	0.40	2.09	511800	4015300	MOENKOPI WASH	No
I	1	31	1.15	7.35	520700	4019110	MOENKOPI WASH	No
I	1	32	1.08	7.32	520593	4018677	MOENKOPI WASH	No
I	1	33	0.86	5.17	517184	4017660	MOENKOPI WASH	No
I	1	35	0.23	0.73	521713	4012579	MOENKOPI WASH	No
I	1	36	0.86	2.75	514400	4012808	MOENKOPI WASH	No
I	1	37	0.29	1.95	516208	4021008	MOENKOPI WASH	No
I	1	280	0.69	4.41	521832	4014987	MOENKOPI WASH	No
I	1	287	0.52	2.89	519761	4013440	MOENKOPI WASH	No
I	1	548	0.34	0.83	502831	4011837	MOENKOPI WASH	No
I	2	291	0.69	3.31	525594	4024702	MOENKOPI WASH	No
I	2	292	0.72	3.16	524980	4013420	MOENKOPI WASH	No
I	2	293	1.43	9.76	522870	4016564	MOENKOPI WASH	No
I	2	295	0.80	4.18	543718	4022434	MOENKOPI WASH	No
I	2	296	0.46	1.10	523288	4018041	MOENKOPI WASH	No
I	2	297	0.34	0.83	523495	4017953	MOENKOPI WASH	No
I	2	298	0.60	3.37	525918	4024115	MOENKOPI WASH	No
I	2	300	0.55	1.32	522643	4017573	MOENKOPI WASH	No
I	2	301	1.15	6.43	525693	4024669	MOENKOPI WASH	No
I	2	304	0.34	1.65	538759	4017697	MOENKOPI WASH	No
I	2	305	0.73	4.11	524451	4013175	MOENKOPI WASH	No
I	2	306	0.62	3.22	524165	4019152	MOENKOPI WASH	No
I	2	307	0.45	2.51	524138	4019064	MOENKOPI WASH	No
I	2	308	0.41	2.48	525744	4016539	MOENKOPI WASH	No
I	2	309	0.69	4.41	523196	4015456	MOENKOPI WASH	No
I	3	209	0.23	1.10	552488	4027874	MOENKOPI WASH	No
I	3	210	0.26	1.45	556136	4029561	MOENKOPI WASH	No
I	3	211	0.34	2.07	555815	4029281	MOENKOPI WASH	No
I	3	212	0.69	3.31	555440	4029090	MOENKOPI WASH	No
I	3	214	1.77	21.21	552516	4027752	MOENKOPI WASH	No
I	3	215	0.69	3.86	556333	4029651	MOENKOPI WASH	No
I	3	219	0.69	4.96	555170	4029122	MOENKOPI WASH	No
I	3	243	0.69	3.58	552460	4028029	MOENKOPI WASH	No
I	3	262	0.30	1.45	555207	4023365	MOENKOPI WASH	No
I	3	302	0.60	4.78	560582	4031066	MOENKOPI WASH	No
I	5	1	0.08	0.10	508932	4010006	MOENKOPI WASH	No
I	5	3	1.38	6.61	508482	4011203	MOENKOPI WASH	No
I	5	4	0.32	0.77	501869	4010645	MOENKOPI WASH	No
I	5	8	0.11	0.28	502147	4011166	MOENKOPI WASH	No
I	5	10	0.13	0.15	502221	4002970	MOENKOPI WASH	No
I	5	11	0.43	1.72	501995	4010212	MOENKOPI WASH	No
I	5	12	0.23	0.92	514099	4010290	MOENKOPI WASH	No
I	5	13	1.81	10.12	512930	4010466	MOENKOPI WASH	No
I	5	16	24.79	218.18	501375	4008271	MOENKOPI WASH	No
I	5	19	0.69	2.75	508284	4011392	MOENKOPI WASH	No
I	5	23	1.10	6.17	502821	4011044	MOENKOPI WASH	No
I	5	25	0.92	7.70	508032	4011414	MOENKOPI WASH	No
I	5	34	1.15	6.43	506867	4007908	MOENKOPI WASH	No
I	5	213	0.92	4.41	500126	3983903	MOENKOPI WASH	No
I	5	216	0.92	5.14	500702	3991822	MOENKOPI WASH	No
I	5	217	6.89	44.08	504630	3988774	MOENKOPI WASH	No

Table 1.
Livestock Impoundments

TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	COORDINATES /3 X	Y	DRAINAGE	MIArea
I	5	218	2.87	18.37	505458	3989539	MOENKOPI WASH	No
I	5	223	1.38	6.06	516318	3985981	MOENKOPI WASH	No
I	5	231	1.03	4.13	507617	4003128	MOENKOPI WASH	No
I	5	234	0.46	2.20	515145	3997315	MOENKOPI WASH	No
I	5	238	0.23	0.46	519142	3988549	MOENKOPI WASH	No
I	5	239	0.69	3.31	516446	3985216	MOENKOPI WASH	No
I	5	240	1.15	6.43	515922	3985703	MOENKOPI WASH	No
I	5	241	0.92	4.41	519919	3987719	MOENKOPI WASH	No
I	5	242	0.69	3.31	520171	3987775	MOENKOPI WASH	No
I	5	245	1.72	8.95	516473	3985427	MOENKOPI WASH	No
I	5	246	0.52	5.30	512490	3985454	MOENKOPI WASH	No
I	5	247	1.84	12.49	521144	3987844	MOENKOPI WASH	No
I	5	248	0.36	2.61	502630	3988529	MOENKOPI WASH	No
I	5	249	0.60	2.89	511755	3995612	MOENKOPI WASH	No
I	5	250	1.21	5.79	513206	3994539	MOENKOPI WASH	No
I	5	251	0.86	3.79	517231	3993658	MOENKOPI WASH	No
I	5	252	0.45	1.79	513957	3992078	MOENKOPI WASH	No
I	5	254	0.34	1.65	519017	3988238	MOENKOPI WASH	No
I	5	255	1.61	9.64	518946	3987617	MOENKOPI WASH	No
I	5	256	1.16	5.11	518596	3987162	MOENKOPI WASH	No
I	5	257	0.46	2.39	517894	3986506	MOENKOPI WASH	No
I	5	259	5.74	45.91	516191	3986902	MOENKOPI WASH	No
I	5	261	0.46	2.02	520596	3987255	MOENKOPI WASH	No
I	5	271	1.03	6.20	518402	4006261	MOENKOPI WASH	No
I	5	272	0.52	2.89	519498	4006629	MOENKOPI WASH	No
I	5	273	1.21	7.23	521474	4007554	MOENKOPI WASH	No
I	5	274	1.74	12.50	518721	4008358	MOENKOPI WASH	No
I	5	276	0.23	1.10	511536	4004485	MOENKOPI WASH	No
I	5	278	0.34	1.93	518483	4006294	MOENKOPI WASH	No
I	5	279	1.87	16.41	517855	4005794	MOENKOPI WASH	No
I	5	281	0.48	1.16	509061	4007078	MOENKOPI WASH	No
I	5	282	0.86	4.13	506195	4004735	MOENKOPI WASH	No
I	5	283	1.38	6.61	506841	4006022	MOENKOPI WASH	No
I	5	284	1.72	8.95	507667	4007875	MOENKOPI WASH	No
I	5	285	0.26	1.03	508711	4006212	MOENKOPI WASH	No
I	5	286	0.92	4.41	508837	4006490	MOENKOPI WASH	No
I	5	288	1.15	5.97	509246	4001710	MOENKOPI WASH	No
I	5	289	0.69	2.75	508570	4003251	MOENKOPI WASH	No
I	5	290	0.92	5.51	511339	4004208	MOENKOPI WASH	No
I	5	299	0.65	3.36	516775	4010750	MOENKOPI WASH	No
I	5	549	0.34	0.70	509528	4001959	MOENKOPI WASH	No
I	5	550	0.34	0.70	509745	4001531	MOENKOPI WASH	No
I	5	551	1.65	4.00	510523	4001742	MOENKOPI WASH	No
I	5	557	0.43	1.50	520765	4010815	MOENKOPI WASH	No
I	6	224	1.15	6.89	538027	4002220	MOENKOPI WASH	No
I	6	225	0.92	6.24	536862	4005454	MOENKOPI WASH	No
I	6	226	0.46	2.39	535838	3998673	MOENKOPI WASH	No
I	6	227	0.60	3.58	541517	4007760	MOENKOPI WASH	No
I	6	228	1.38	8.82	539468	4003768	MOENKOPI WASH	No
I	6	229	1.38	11.02	535727	4001600	MOENKOPI WASH	No
I	6	230	0.29	1.38	525430	4004115	MOENKOPI WASH	No
I	6	232	0.92	4.78	530497	4010454	MOENKOPI WASH	No
I	6	235	2.58	14.46	525841	3989642	MOENKOPI WASH	No
I	6	236	2.41	13.50	530131	3994093	MOENKOPI WASH	No
I	6	237	0.70	4.50	524513	3991180	MOENKOPI WASH	No
I	6	258	1.38	8.82	532958	4001190	MOENKOPI WASH	No
I	6	260	0.70	4.50	522966	4010886	MOENKOPI WASH	No
I	6	265	0.69	4.68	527102	4004309	MOENKOPI WASH	No
I	6	267	0.92	8.08	536409	3999751	MOENKOPI WASH	No
I	8	220	2.30	15.61	512120	3979353	MOENKOPI WASH	No
I	8	221	0.69	3.31	514946	3982030	MOENKOPI WASH	No
I	8	222	1.03	6.20	511523	3980273	MOENKOPI WASH	No

Table 1.								
Livestock Impoundments								
					COORDINATES /3			
TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	X	Y	DRAINAGE	MIArea
I	8	233	1.38	9.92	512698	3978422	MOENKOPI WASH	No
I	8	244	0.34	1.38	512020	3979508	MOENKOPI WASH	No
I	8	253	1.84	13.22	512171	3981327	MOENKOPI WASH	No
I	8	263	3.21	21.85	509922	3976666	MOENKOPI WASH	No
I	8	264	1.86	8.93	507438	3981067	MOENKOPI WASH	No
I	8	266	0.46	6.10	506058	3982608	MOENKOPI WASH	No
I	8	268	4.02	48.21	505129	3982918	MOENKOPI WASH	No
I	8	269	1.21	7.71	503506	3982762	MOENKOPI WASH	No
I	8	270	0.69	4.41	501253	3982916	MOENKOPI WASH	No
I	8	275	0.77	4.96	511195	3983079	MOENKOPI WASH	No
I	8	277	1.89	11.36	506690	3980856	MOENKOPI WASH	No
I	8	294	2.84	17.05	505562	3982330	MOENKOPI WASH	No
	Subtotal Moenkopi Wash 1882 Area			1080.36				
I	4	559	NM	7.78	476648	3989005	MOENKOPI WASH	Yes
I	4	560	NM	7.78	491534	3991599	MOENKOPI WASH	Yes
I	4	561	NM	7.78	485025	3986863	MOENKOPI WASH	Yes
	Subtotal Moenkopi Wash 1934 Area /4			23.34				
Oriabi Wash								
I	6	316	1.38	4.41	544030	3985433	ORAIBI WASH	No
I	6	322	0.20	0.73	543704	3985709	ORAIBI WASH	No
I	6	323	2.75	15.43	539356	3984668	ORAIBI WASH	No
I	6	324	1.01	4.85	544558	3984327	ORAIBI WASH	No
I	7	311	0.86	5.17	554108	3987830	ORAIBI WASH	No
I	7	314	1.38	8.26	551059	3990030	ORAIBI WASH	No
I	7	315	1.61	6.43	552572	3988653	ORAIBI WASH	No
I	7	317	0.40	0.96	551170	3989565	ORAIBI WASH	No
I	7	319	1.72	8.95	549488	3989189	ORAIBI WASH	No
I	7	320	0.52	2.89	546999	3987878	ORAIBI WASH	No
I	7	321	1.72	13.77	551811	3986308	ORAIBI WASH	No
I	7	325	0.92	5.14	547514	3984276	ORAIBI WASH	No
I	7	326	0.70	3.66	546225	3987752	ORAIBI WASH	No
I	7	327	0.52	4.50	547687	3985730	ORAIBI WASH	No
I	7	329	1.89	12.12	549940	3985709	ORAIBI WASH	No
I	7	330	0.27	0.80	550283	3990270	ORAIBI WASH	No
I	7	331	0.70	3.94	547666	3989578	ORAIBI WASH	No
I	7	556	1.61	6.40	548523	3985562	ORAIBI WASH	No
I	8	391	0.69	3.31	521170	3957987	ORAIBI WASH	No
I	8	392	1.61	9.64	521137	3960515	ORAIBI WASH	No
I	8	395	0.57	2.75	520242	3956598	ORAIBI WASH	No
I	9	310	0.41	1.82	537408	3982785	ORAIBI WASH	No
I	9	312	1.89	7.58	538417	3974837	ORAIBI WASH	No
I	9	313	2.75	15.43	537896	3974158	ORAIBI WASH	No
I	9	318	0.92	4.41	540939	3977710	ORAIBI WASH	No
I	9	328	0.92	5.14	541771	3977226	ORAIBI WASH	No
I	9	332	0.28	0.99	533612	3959567	ORAIBI WASH	No
I	9	338	1.49	8.36	535803	3958500	ORAIBI WASH	No
I	9	339	0.86	4.48	523243	3960454	ORAIBI WASH	No
I	9	340	2.84	3.41	526206	3960684	ORAIBI WASH	No
I	9	342	0.57	2.98	523015	3961163	ORAIBI WASH	No
I	9	343	5.06	5.06	530157	3965621	ORAIBI WASH	No
I	9	344	4.13	19.83	533002	3963014	ORAIBI WASH	No
I	9	345	0.60	2.65	533570	3965756	ORAIBI WASH	No
I	9	346	3.44	23.42	531387	3957341	ORAIBI WASH	No
I	9	347	1.84	11.02	530959	3958171	ORAIBI WASH	No
I	9	349	0.52	2.69	535187	3956678	ORAIBI WASH	No
I	9	367	0.52	3.90	529506	3957611	ORAIBI WASH	No
I	9	369	0.13	0.46	543812	3978522	ORAIBI WASH	No
I	9	370	0.46	1.84	524151	3958826	ORAIBI WASH	No
I	9	378	1.38	5.51	538018	3975146	ORAIBI WASH	No
I	9	380	0.13	0.46	543414	3978709	ORAIBI WASH	No
I	9	381	16.00	160.00	542792	3982310	ORAIBI WASH	No

Table 1.								
Livestock Impoundments								
					COORDINATES /3			
TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	X	Y	DRAINAGE	MIArea
I	9	382	3.44	17.91	542745	3982809	ORAIBI WASH	No
I	9	383	0.57	2.30	544195	3972246	ORAIBI WASH	No
I	9	384	1.21	6.75	544194	3972402	ORAIBI WASH	No
I	9	385	0.69	2.75	540561	3983198	ORAIBI WASH	No
I	9	386	2.01	9.64	540989	3982457	ORAIBI WASH	No
I	9	389	2.81	21.36	523260	3964092	ORAIBI WASH	No
I	9	390	0.92	8.90	529482	3956657	ORAIBI WASH	No
I	9	398	1.16	12.00	541622	3981906	ORAIBI WASH	No
I	9	554	1.39	4.40	538157	3973668	ORAIBI WASH	No
I	10	371	1.74	9.03	551050	3983774	ORAIBI WASH	No
I	10	372	2.75	16.53	548577	3982773	ORAIBI WASH	No
I	10	373	0.92	8.40	545924	3981561	ORAIBI WASH	No
I	10	374	1.15	6.43	548631	3981143	ORAIBI WASH	No
I	10	375	0.43	1.55	547548	3978120	ORAIBI WASH	No
I	10	376	1.26	7.58	547478	3977743	ORAIBI WASH	No
I	10	387	1.61	10.28	545358	3975946	ORAIBI WASH	No
I	10	396	0.29	1.26	545207	3975579	ORAIBI WASH	No
I	12	350	4.59	27.55	522462	3951269	ORAIBI WASH	No
I	12	351	1.03	4.96	519589	3945318	ORAIBI WASH	No
I	12	352	0.52	2.48	519815	3945418	ORAIBI WASH	No
I	12	353	0.92	5.14	519294	3952093	ORAIBI WASH	No
I	12	354	1.87	3.73	519732	3950220	ORAIBI WASH	No
I	12	355	1.16	6.51	520104	3949733	ORAIBI WASH	No
I	12	356	0.60	3.37	519375	3952193	ORAIBI WASH	No
I	12	357	0.92	5.14	520023	3953825	ORAIBI WASH	No
I	12	359	0.57	2.75	517581	3953731	ORAIBI WASH	No
I	12	361	0.29	0.92	521276	3955525	ORAIBI WASH	No
I	12	362	0.92	8.40	516919	3945345	ORAIBI WASH	No
I	12	368	1.61	7.71	518836	3954776	ORAIBI WASH	No
I	12	388	0.57	1.84	516457	3940664	ORAIBI WASH	No
I	12	394	0.52	5.40	517739	3928745	ORAIBI WASH	No
I	12	397	0.92	9.50	520740	3937069	ORAIBI WASH	No
I	12	399	0.92	16.10	516701	3940875	ORAIBI WASH	No
I	12	400	1.38	6.61	521270	3935162	ORAIBI WASH	No
I	12	401	0.15	0.59	518671	3938384	ORAIBI WASH	No
I	12	402	0.18	0.73	520888	3939564	ORAIBI WASH	No
I	12	403	0.52	2.48	511861	3938162	ORAIBI WASH	No
I	12	404	0.60	3.13	521450	3943204	ORAIBI WASH	No
I	12	405	0.60	5.20	520840	3937002	ORAIBI WASH	No
I	13	333	0.23	1.10	526239	3949715	ORAIBI WASH	No
I	13	334	1.16	2.32	530188	3948430	ORAIBI WASH	No
I	13	335	0.92	12.40	528415	3953726	ORAIBI WASH	No
I	13	336	0.34	1.79	527044	3949618	ORAIBI WASH	No
I	13	337	1.26	6.06	529619	3953419	ORAIBI WASH	No
I	13	341	3.44	27.52	524696	3954547	ORAIBI WASH	No
I	13	348	0.65	4.68	524977	3941605	ORAIBI WASH	No
I	13	358	0.69	3.86	524627	3949988	ORAIBI WASH	No
I	13	360	1.38	6.61	524587	3948080	ORAIBI WASH	No
I	13	364	8.03	57.82	523841	3942833	ORAIBI WASH	No
I	13	365	0.23	4.40	524343	3944686	ORAIBI WASH	No
I	13	366	1.15	5.51	524538	3946472	ORAIBI WASH	No
I	13	377	2.41	17.35	524850	3941704	ORAIBI WASH	No
I	13	379	1.16	7.44	522809	3935621	ORAIBI WASH	No
	Subtotal Oraibi Wash 1882 Area			851.72				
	Subtotal Oraibi Wash 1934 Area			None				
Polacca Wash								
I	7	536	0.69	3.31	556228	3984605	POLACCA WASH	No
I	9	511	0.57	1.84	538719	3957281	POLACCA WASH	No
I	9	512	0.46	1.47	538493	3957280	POLACCA WASH	No
I	9	530	0.09	0.21	544800	3972249	POLACCA WASH	No
I	10	414	3.21	3.86	561552	3968124	POLACCA WASH	No

Table 1.								
Livestock Impoundments								
					COORDINATES /3			
TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	X	Y	DRAINAGE	MIArea
I	10	426	0.34	1.65	563648	3969348	POLACCA WASH	No
I	10	427	1.61	6.43	563999	3969406	POLACCA WASH	No
I	10	428	1.72	8.26	564525	3969166	POLACCA WASH	No
I	10	429	0.52	1.86	567470	3964130	POLACCA WASH	No
I	10	430	0.34	1.38	567674	3967060	POLACCA WASH	No
I	10	432	0.34	1.65	567314	3969276	POLACCA WASH	No
I	10	441	0.26	1.03	567107	3969219	POLACCA WASH	No
I	10	461	0.23	0.83	567015	3962252	POLACCA WASH	No
I	10	490	0.23	2.20	557797	3966557	POLACCA WASH	No
I	10	491	0.57	3.44	564056	3978957	POLACCA WASH	No
I	10	492	1.21	6.27	566501	3980029	POLACCA WASH	No
I	10	493	1.03	4.96	561514	3976266	POLACCA WASH	No
I	10	494	1.72	10.33	565239	3975083	POLACCA WASH	No
I	10	495	0.26	0.83	566200	3973271	POLACCA WASH	No
I	10	496	0.39	1.86	563512	3970634	POLACCA WASH	No
I	10	498	0.50	2.21	551594	3958633	POLACCA WASH	No
I	10	499	0.92	5.14	562487	3970017	POLACCA WASH	No
I	10	500	1.38	2.20	563662	3963647	POLACCA WASH	No
I	10	501	0.52	2.69	558645	3959886	POLACCA WASH	No
I	10	502	1.29	7.23	560429	3959432	POLACCA WASH	No
I	10	503	1.81	14.46	560838	3961742	POLACCA WASH	No
I	10	506	0.72	3.74	560580	3959866	POLACCA WASH	No
I	10	507	0.34	1.10	559475	3966879	POLACCA WASH	No
I	10	508	0.72	4.05	558342	3963333	POLACCA WASH	No
I	10	509	1.38	7.16	553573	3960153	POLACCA WASH	No
I	10	510	4.59	45.91	553534	3957657	POLACCA WASH	No
I	10	517	0.23	0.92	551367	3980504	POLACCA WASH	No
I	10	518	1.87	10.45	553783	3974640	POLACCA WASH	No
I	10	519	2.75	22.00	555309	3978864	POLACCA WASH	No
I	10	520	1.81	10.12	546446	3973334	POLACCA WASH	No
I	10	521	15.38	172.26	553880	3975073	POLACCA WASH	No
I	10	522	1.42	5.68	552174	3979744	POLACCA WASH	No
I	10	523	1.89	11.36	550986	3977829	POLACCA WASH	No
I	10	524	1.72	13.30	552665	3977528	POLACCA WASH	No
I	10	525	4.82	34.70	549552	3974582	POLACCA WASH	No
I	10	526	0.59	2.82	563676	3982870	POLACCA WASH	No
I	10	527	0.57	2.75	548374	3973810	POLACCA WASH	No
I	10	528	0.69	3.58	548911	3971406	POLACCA WASH	No
I	10	529	0.69	4.13	546191	3970282	POLACCA WASH	No
I	10	531	1.72	8.95	551418	3976412	POLACCA WASH	No
I	10	532	0.23	0.92	566107	3982122	POLACCA WASH	No
I	10	533	1.61	10.93	552954	3962490	POLACCA WASH	No
I	10	534	0.29	1.03	553694	3963859	POLACCA WASH	No
I	10	535	1.61	3.86	553080	3967027	POLACCA WASH	No
I	10	538	0.92	3.31	559053	3977225	POLACCA WASH	No
I	10	539	1.38	6.61	557789	3976085	POLACCA WASH	No
I	10	540	0.39	1.86	545500	3972963	POLACCA WASH	No
I	10	541	0.92	3.31	565528	3982395	POLACCA WASH	No
I	10	542	0.74	3.27	563877	3982505	POLACCA WASH	No
I	10	543	1.55	31.50	558428	3981790	POLACCA WASH	No
I	10	544	1.38	5.51	558810	3975815	POLACCA WASH	No
I	10	545	0.39	1.70	557897	3974755	POLACCA WASH	No
I	10	546	0.32	1.67	557107	3972753	POLACCA WASH	No
I	11	406	0.08	0.15	577819	3971891	POLACCA WASH	No
I	11	407	8.26	0.00	577357	3964866	POLACCA WASH	No
I	11	408	1.03	0.00	574888	3962959	POLACCA WASH	No
I	11	409	0.40	1.29	574408	3963110	POLACCA WASH	No
I	11	410	0.34	1.93	573402	3963567	POLACCA WASH	No
I	11	411	0.46	2.75	572296	3963924	POLACCA WASH	No
I	11	412	0.33	0.93	573258	3962335	POLACCA WASH	No
I	11	413	1.81	11.57	576052	3964200	POLACCA WASH	No
I	11	415	1.29	12.40	577103	3964919	POLACCA WASH	No

Table 1.
Livestock Impoundments

TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	COORDINATES /3 X	Y	DRAINAGE	MIArea
I	11	416	0.41	1.65	571393	3967333	POLACCA WASH	No
I	11	417	1.72	0.00	577177	3964764	POLACCA WASH	No
I	11	418	0.86	8.30	577526	3968217	POLACCA WASH	No
I	11	419	0.51	2.63	577030	3970187	POLACCA WASH	No
I	11	420	0.86	5.17	569662	3959988	POLACCA WASH	No
I	11	421	1.38	7.71	575687	3966814	POLACCA WASH	No
I	11	422	0.36	1.15	577110	3967204	POLACCA WASH	No
I	11	423	0.39	2.02	574054	3969829	POLACCA WASH	No
I	11	424	0.86	6.20	568052	3963735	POLACCA WASH	No
I	11	425	1.72	8.26	573015	3976475	POLACCA WASH	No
I	11	431	3.16	0.00	574115	3962553	POLACCA WASH	No
I	11	433	0.69	2.75	569262	3969601	POLACCA WASH	No
I	11	434	0.46	2.57	568198	3964690	POLACCA WASH	No
I	11	435	0.34	2.20	571177	3959268	POLACCA WASH	No
I	11	436	0.28	1.10	570746	3960152	POLACCA WASH	No
I	11	437	1.03	6.61	569399	3962393	POLACCA WASH	No
I	11	438	0.34	1.38	569966	3962674	POLACCA WASH	No
I	11	439	0.28	1.89	570094	3962487	POLACCA WASH	No
I	11	440	1.29	6.20	579123	3969318	POLACCA WASH	No
I	11	443	0.34	1.10	573467	3962182	POLACCA WASH	No
I	11	462	0.92	4.78	584064	3969109	POLACCA WASH	No
I	11	468	0.69	2.20	582149	3967249	POLACCA WASH	No
I	11	477	0.52	5.10	575324	3973378	POLACCA WASH	No
I	11	478	0.92	3.67	569589	3979587	POLACCA WASH	No
I	11	479	1.10	2.64	569105	3973416	POLACCA WASH	No
I	11	480	1.94	6.20	571490	3973157	POLACCA WASH	No
I	11	481	0.11	0.31	577071	3971696	POLACCA WASH	No
I	11	482	0.09	0.22	577468	3971733	POLACCA WASH	No
I	11	483	2.41	8.68	577975	3982741	POLACCA WASH	No
I	11	484	0.34	1.65	578846	3972111	POLACCA WASH	No
I	11	485	0.06	0.18	578945	3972090	POLACCA WASH	No
I	11	486	2.07	15.70	580794	3970321	POLACCA WASH	No
I	11	487	0.28	1.00	575092	3974086	POLACCA WASH	No
I	11	488	0.86	4.48	574744	3971432	POLACCA WASH	No
I	11	489	0.52	4.60	571012	3976459	POLACCA WASH	No
I	11	497	0.14	0.44	574899	3973441	POLACCA WASH	No
I	11	504	0.70	7.90	583103	3970553	POLACCA WASH	No
I	11	505	1.38	8.26	571369	3975785	POLACCA WASH	No
I	11	513	2.30	15.64	584018	3973956	POLACCA WASH	No
I	11	514	1.15	4.60	581915	3974025	POLACCA WASH	No
I	11	515	0.69	4.14	580806	3971918	POLACCA WASH	No
I	11	516	12.86	61.73	583299	3970832	POLACCA WASH	No
I	11	537	0.69	3.03	567755	3983543	POLACCA WASH	No
I	11	547	1.51	6.63	567930	3982990	POLACCA WASH	No
I	11	552	0.17	0.26	576097	3965141	POLACCA WASH	No
I	13	363	1.21	5.79	533302	3943295	POLACCA WASH	No
I	13	442	0.70	3.66	523973	3930855	POLACCA WASH	No
I	13	445	0.52	2.69	531431	3932109	POLACCA WASH	No
I	13	446	1.38	5.51	532402	3934264	POLACCA WASH	No
I	13	447	0.52	6.40	531559	3936912	POLACCA WASH	No
I	13	448	0.52	9.50	529962	3940356	POLACCA WASH	No
I	13	450	0.60	2.89	527814	3934748	POLACCA WASH	No
I	13	452	1.84	1.40	525624	3936771	POLACCA WASH	No
I	13	453	0.23	0.92	537001	3935702	POLACCA WASH	No
I	13	454	0.52	2.48	541150	3937938	POLACCA WASH	No
I	13	455	1.61	9.64	541279	3937351	POLACCA WASH	No
I	13	456	0.92	9.50	534287	3941325	POLACCA WASH	No
I	13	457	0.92	12.10	540299	3941783	POLACCA WASH	No
I	13	458	1.81	8.68	541146	3938803	POLACCA WASH	No
I	13	459	0.77	4.34	525770	3936716	POLACCA WASH	No
I	13	460	0.59	10.40	536719	3944640	POLACCA WASH	No
I	13	463	0.57	2.98	544924	3942393	POLACCA WASH	No

Table 1.
Livestock Impoundments

TYPE	PLATE NO. /1	POND ID NO.	MAXIMUM ACREAGE	CAPACITY/2 (ACRE-FEET)	COORDINATES /3 X	Y	DRAINAGE	MIArea
I	13	464	2.07	11.57	536792	3944607	POLACCA WASH	No
I	13	465	1.72	9.64	537112	3946050	POLACCA WASH	No
I	13	467	0.34	1.65	544636	3949201	POLACCA WASH	No
I	13	469	0.92	3.67	541386	3945547	POLACCA WASH	No
I	13	470	0.23	1.19	540848	3954362	POLACCA WASH	No
I	13	471	0.92	5.14	535955	3945435	POLACCA WASH	No
I	13	476	0.92	5.14	540089	3950255	POLACCA WASH	No
I	13	553	1.72	6.90	543363	3947761	POLACCA WASH	No
I	14	444	0.43	2.07	556891	3955804	POLACCA WASH	No
I	14	449	1.03	5.37	555000	3956003	POLACCA WASH	No
I	14	451	0.92	5.14	553291	3953064	POLACCA WASH	No
I	14	466	0.52	2.69	556684	3955647	POLACCA WASH	No
I	14	472	1.15	6.43	548515	3948046	POLACCA WASH	No
I	14	473	1.15	6.43	546013	3950561	POLACCA WASH	No
I	14	474	0.92	5.14	550105	3951726	POLACCA WASH	No
I	14	475	0.34	1.10	551257	3952719	POLACCA WASH	No
	Subtotal Polacca Wash 1882 Area			990.16				
	Subtotal Polacca Wash 1934 Area			None				
Pueblo Colorado Wash								
I	11	38	0.11	0.32	589911	3961590	PUEBLO COLORADO WASH	No
I	11	39	1.51	5.42	588246	3959998	PUEBLO COLORADO WASH	No
I	15	40	0.23	0.92	589410	3949383	PUEBLO COLORADO WASH	No
I	15	41	1.15	4.59	589648	3945537	PUEBLO COLORADO WASH	No
I	15	42	1.55	2.48	589430	3954564	PUEBLO COLORADO WASH	No
I	15	43	1.43	5.74	589722	3950773	PUEBLO COLORADO WASH	No
I	15	44	0.92	5.10	587882	3945641	PUEBLO COLORADO WASH	No
I	15	46	0.38	1.97	589472	3950405	PUEBLO COLORADO WASH	No
I	15	47	0.23	1.10	588621	3952271	PUEBLO COLORADO WASH	No
	Subtotal Pueblo Colorado Wash 1882 Area			27.64				
	Subtotal Pueblo Colorado Wash 1934 Area			None				
Total For All Drainages in 1882 Area				4340.10				
Total For All Drainages in 1934 Area				23.34				

Notes:
1/ The plates documenting the individual impoundments are presented in Appendix 3.
2/ The capacities of impoundments 407, 408, 417 and 431 are included in the claim for recreational lakes.
3/ X and Y are coordinates in UTM Zone 12 North American Datum 1927 for the location of the feature.
4/ Information was not available to calculate capacities of the three impundments located in the 1934 Act area. The average capacity (8.02 ac-ft) of the other 558 impoundments is used.

Average Capacity	
Total	4340.10
Number	558
Average Ca	7.777957

Table 2.
Livestock Wells

TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	COORDINATES /4 X	Y
Dinnebito Wash							
W	3	15	OWL WELL	ND	6.5	549839	4015601
W	3	16	ANGRY MAN WELL	ND	6.5	549862	4016241
W	3	17	04T-406	ND	6.5	554334	4019231
W	3	190		ND	6.5	549727	4021108
W	5	34	TOH HA HA CLAH	2	6.5	522030	3984330
W	6	40	H-3-NO-3	5	8.1	533737	3986894
W	6	44		3	6.5	536719	3986043
W	7	30	NO #	ND	6.5	551642	4006330
W	7	31	4T-395	ND	6.5	549518	4006595
W	8	52	BEETSO WELL	ND	6.5	506599	3972995
W	8	54	N HOCK SPRING WELL	1	6.5	507597	3970658
W	8	55		ND	6.5	521707	3977995
W	8	56	H-3WD2	5	8.1	512135	3971279
W	8	57	06M-183A	ND	6.5	514108	3975626
W	8	58	06H-55	ND	6.5	518168	3977876
W	8	75	SWEET WATER WELL	ND	6.5	505851	3957440
W	8	76	03A-153	ND	6.5	501381	3960765
W	8	77	MOENKOPI MONUMEN	2	6.5	503287	3964801
W	8	78	3K-320	6	9.7	506021	3965665
W	8	81	06M-44	ND	6.5	516565	3961581
W	8	82	6-11A	2	6.5	517617	3967297
W	8	83	RED CLAY SPRING	ND	6.5	520689	3969292
W	8	84	6-3BP3	4	6.5	513063	3957034
W	8	85	06K-321	3	6.5	515121	3956770
W	8	86	06-3BP1	4	6.5	511771	3961121
W	8	87	06M-50	ND	6.5	518631	3965362
W	8	88	06K-322	ND	6.5	521159	3967135
W	8	89	06M-174	ND	6.5	515725	3969534
W	9	61	06M70	ND	6.5	525460	3975836
W	9	62		ND	6.5	530569	3976623
W	9	184		ND	6.5	523590	3971347
W	12	126	SAND VALLEY WELL	1	6.5	501081	3945698
W	12	127	RED ROCK SP/WELL	2	6.5	511366	3942829
W	12	128	WIDE DAM #5-11	1	6.5	508879	3942901
W	12	130	SALT	ND	6.5	511690	3949634
W	12	131	SWEET WTR WELL	<1	6.5	511611	3949679
W	12	132	06K-310(N)	4	6.5	515458	3949195
W	12	169	3A-154	ND	6.5	501699	3954357
W	12	187		ND	6.5	514186	3946288
W	12	195	5T-500	ND	6.5	513163	3949114
	Subtotal Dinnebito Wash 1882 Area				266.4		
	Subtotal Dinnebito Wash 1934 Area				None		
Jedito Wash							
W	11	114	61F9	8	12.9	568411	3956654
W	11	115	61F8	ND	6.5	576324	3962326
W	11	119	07H-37	3	6.5	587197	3964430
W	11	121	07H-26	ND	6.5	584669	3963666
W	11	122	07K-364	2	6.5	580851	3964092
W	11	123	07K-371	5	7.3	589497	3965254
W	11	124	#18 (A8)	ND	6.5	585111	3967337
W	11	185	7H-37	ND	6.5	587266	3957014
W	14	144	06M-17A	ND	6.5	556499	3951537
W	14	146	07T-504	ND	6.5	560373	3945689
W	14	147		ND	6.5	566657	3942653
W	14	148	06H-13	3	6.5	559404	3946935
W	14	149	06H-12	4	6.5	562740	3948787
W	14	150	07H-5A2	ND	6.5	566569	3947644

Table 2.								
Livestock Wells								
						COORDINATES /4		
TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	X	Y	
W	14	151	06-1T4	2	6.5	560047	3954992	
W	14	164		ND	6.5	552015	3930713	
W	14	165	07K-315	ND	6.5	552945	3931870	
W	14	166	07K-302	4	6.9	551035	3934890	
W	14	167	CROWN POINT WELL	ND	6.5	556007	3936141	
W	14	193	6-GS-113-1	ND	6.5	553832	3949708	
W	14	194	6-GS-113-2	ND	6.5	549498	3946933	
W	14	198	7T-503	ND	6.5	553703	3941248	
W	14	199	7T-502	ND	6.5	555473	3940387	
W	14	206	7T-501	ND	6.5	557641	3940311	
W	15	152	7K-355	4	6.5	569669	3943447	
W	15	153	07H-55	ND	6.5	572896	3949253	
W	15	154		ND	6.5	574349	3949338	
W	15	156	NEW WELL	ND	6.5	580009	3948925	
W	15	157		4	6.5	585500	3950308	
W	15	168	7T-520	ND	6.5	576412	3940328	
W	15	180	7K-355	ND	6.5	569882	3943315	
W	15	189	7K-363	ND	6.5	575508	3945503	
	Subtotal Jedito Wash 1882 Area				215.6			
	Subtotal Jedito Wash 1934 Area				None			
Lower Little Colorado River								
W	8	49	03M-176A	ND	6.5	502387	3979156	
W	8	51	03K-332	3	6.5	507843	3976481	
W	8	53	03T-500	ND	6.5	505511	3979375	
W	8	79	3M-175	3	6.5	502433	3969238	
	Subtotal Lower Little Colorado 1882 Area			0	26.0			

Table 2.
Livestock Wells

TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	COORDINATES /4 X	Y
W	4	1		ND	6.5	482795	3980930
W	4	2		ND	6.5	486955	3982741
	Subtotal Lower Little Colorado 1934 Area				13.0		
Moenkopi Wash							
W	1	7		ND	6.5	518563	4025669
W	1	9	1-A70	ND	6.5	506885	4015485
W	1	10	01A-72	ND	6.5	502246	4011723
W	1	11	SIDE ROCK WELL	ND	6.5	502046	4011600
W	2	12	04K-387	ND	6.5	539311	4016218
W	2	13	04-380	ND	6.5	542272	4021884
W	2	14	02T-503	ND	6.5	534562	4024825
W	2	205		ND	6.5	522943	4018471
W	3	8	SAGE BRUSH WELL	ND	6.5	555023	4028443
W	3	18	04T-405	ND	6.5	552432	4025409
W	5	19	NEW WELL	ND	6.5	509035	4011235
W	5	20	NADSAT IT-239	ND	6.5	506817	4007104
W	5	21	JUA2-7-345	ND	6.5	509745	4000853
W	5	22	BLUE CYN WELL	ND	6.5	511144	4000823
W	5	23	2/7/01	8	12.9	504091	3998592
W	5	32	03K-345	1	6.5	508524	3996938
W	5	33	03K-330	5	8.1	503802	3992406
W	5	35		ND	6.5	520969	3988641
W	5	36	JUA2-8-844B	5	7.3	521563	3991045
W	5	37	03K-344	8	12.9	517758	3992300
W	5	38	03M-156	3	6.5	512004	3993800
W	5	39		4	6.5	514824	3996731
W	6	24	04K-391	ND	6.5	526265	3999777
W	6	25	4T-515	ND	6.5	527774	4001400
W	6	26	2/11/01	4	6.5	535813	3999318
W	6	27	04K-384	ND	6.5	535700	4002491
W	6	28	BENALLY WELL	ND	6.5	543577	4006194
W	6	29	JUA2-5-1	4	6.5	542062	4009483
W	6	41		3	6.5	525921	3989424
W	6	42	HK-383	3	6.5	528706	3994701
W	6	43	04M-138	ND	6.5	527367	3996723
W	8	50	DRY WELL	ND	6.5	509426	3978309
W	8	59		3	6.5	511799	3978334
W	8	60	03K-311	7	11.3	516776	3982655
W	8	170	3K-326	ND	6.5	500099	3983709
	Subtotal Moenkopi Wash 1882 Area			0	247.5		
W	4	3		ND	6.5	481332	3987989
W	4	4		ND	6.5	492545	3989975
W	4	5		ND	6.5	480051	3996772
W	4	6		ND	6.5	480577	3997264
W	4	196	CRATER WELL	ND	6.5	479052	3993118
	Subtotal Moenkopi Wash 1934 Area				32.5		
Oraibi Wash							
W	7	45	06-1H4	4	6.5	548520	3983944
W	7	46	04M-89A	ND	6.5	550548	3992551
W	7	171	4M-89	ND	6.5	550115	3992528
W	7	191	TURQUOISE TRAIL	ND	6.5	546262	3989512
W	9	63	06M-60	4	6.5	537498	3973568
W	9	64	06M-64	3	6.5	536654	3982070
W	9	90	06M-46	ND	6.5	524105	3957902
W	9	91		ND	6.5	526189	3959057
W	9	92	06K-261	ND	6.5	531332	3959218
W	9	93		ND	6.5	523043	3960887
W	9	94	06K-310	3	6.5	527174	3964319

Table 2.
Livestock Wells

TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	COORDINATES /4 X	Y
W	9	95	06M-52A	7	11.3	532937	3964880
W	9	96	06-3-503	ND	6.5	529447	3967376
W	9	97	FLUTE WELL	ND	6.5	532098	3969665
W	9	98	06M-302B	ND	6.5	534608	3969028
W	9	99	06M-302A	ND	6.5	533352	3969482
W	9	175	6K-309A	ND	6.5	529873	3974911
W	9	176	6K-310	ND	6.5	527349	3964909
W	9	181		ND	6.5	532581	3971340
W	9	182		ND	6.5	532582	3971316
W	9	183		ND	6.5	532683	3971169
W	9	203	6M-61	ND	6.5	540326	3977558
W	9	204	6-NO1	ND	6.5	537416	3976764
W	10	66	06-1H7	2	6.5	548471	3979168
W	10	174	6K-308	ND	6.5	547914	3983324
W	12	80	06M-45	ND	6.5	521096	3956046
W	12	133	06H-79	4	6.5	518246	3949785
W	13	134		ND	6.5	523644	3942682
W	13	135		4	6.5	531505	3953057
W	13	136	6K-307	ND	6.5	522778	3955925
W	13	143	6K-305-9?	ND	6.5	536745	3955727
W	13	161		ND	6.5	522773	3935594
W	13	173	6K-307	ND	6.5	522766	3955557
W	13	197	6K-312	ND	6.5	531291	3948117
	Subtotal Oraibi Wash 1882 Area				225.8		
	Subtotal Oraibi Wash 1934 Area				None		

Table 2.
Livestock Wells

TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	COORDINATES /4 X	Y
Polacca Wash							
W	7	47	04M-87	4	6.5	557443	3986247
W	7	48	ROUGH NECK WELL	ND	6.5	561360	3988029
W	9	172	6K-305-95	ND	6.5	538192	3957617
W	10	65	06-1HS	ND	6.5	547274	3973554
W	10	67	WILDCAT WELL	5	7.3	552251	3980067
W	10	68	06M-66	8	12.1	563312	3970727
W	10	69	06-1H6	ND	6.5	556637	3977703
W	10	70	06K-311	4	6.5	565138	3978074
W	10	71	6H-8	4	6.5	560014	3979978
W	10	100	6K-305-94	4	6.5	549802	3956376
W	10	101	06PW5	4	6.5	545296	3958355
W	10	102	6H-15	5	8.1	550347	3962079
W	10	103	06-1F7	4	6.5	554055	3962596
W	10	104	6-1H1	ND	6.5	552009	3965354
W	10	105	SUNLIGHT MISSION	ND	6.5	547057	3962523
W	10	106	06K-306	4	6.5	560163	3961770
W	10	107	06M-07	ND	6.5	556688	3963565
W	10	108	FLOWING WELL	ND	6.5	558790	3964473
W	10	109	06K-301	ND	6.5	556874	3965816
W	10	110		1	6.5	566008	3965571
W	10	111	06M-03	ND	6.5	566590	3965439
W	10	112		ND	6.5	562433	3967270
W	10	177	6M-10A	ND	6.5	556679	3965785
W	10	178	6M-19	ND	6.5	549749	3956545
W	10	179	6M-40	ND	6.5	547247	3973389
W	10	202	6H-2-1	ND	6.5	553896	3974671
W	11	72	4M-79A	ND	6.5	574723	3979004
W	11	73	06M-80	6	9.7	568037	3974427
W	11	74		ND	6.5	578262	3981508
W	11	113	06K-12S	ND	6.5	576136	3963742
W	11	116	6-1F10	4	6.5	576160	3965679
W	11	117	06M-02	4	6.5	569369	3965782
W	11	118	06K-320	3	6.5	571375	3969002
W	11	125	#20	ND	6.5	585310	3970142
W	11	186		ND	6.5	573883	3962454
W	11	192	JUA-N17	ND	6.5	583732	3972592
W	11	200	4T-385	ND	6.5	571714	3976276
W	11	201	7P-387	ND	6.5	578485	3978552
W	13	129	UNNAMED	ND	6.5	544351	3946396
W	13	137	06M-27	ND	6.5	538775	3947897
W	13	138	06-2B3	ND	6.5	538813	3947849
W	13	139	06-2B3	ND	6.5	538813	3947849
W	13	140	06M-26	4	6.5	543289	3947807
W	13	141	06K-304	5	8.1	535506	3951378
W	13	142	06M-29	4	6.5	543311	3953538
W	13	159	05K-330	ND	6.5	529051	3934965
W	13	160	5K-300	ND	6.5	526358	3934895
W	13	162	06-2B5	ND	6.5	532247	3938209
W	13	163	06M-25	3	6.5	536250	3941934
W	13	188		ND	6.5	539710	3955680
W	14	145	06-2BB1	ND	6.5	554705	3955512
	Subtotal Oraibi Wash 1882 Area				344.3		
	Subtotal Oraibi Wash 1934 Area				None		
Pueblo Colorado							
W	11	120	NO. 19	ND	6.5	587605	3961229
W	15	155		ND	6.5	588211	3948353
W	15	158	GLORIA LABAN	ND	6.5	587348	3955554
	Subtotal Pueblo Colorado 1882 Area				19.5		

Table 2.								
Livestock Wells								
						COORDINATES /4		
TYPE	PLATE NO. /1	ID /2	NAME	YEILD (GPM) /3	CLAIM (ACRE-FEET)	X	Y	
	Subtotal Pueblo Colorado 1934 Area				None			
Total For All Drainages in 1882 Area					1345.1			
Total For All Drainages in 1934 Area					45.5			
Notes:	1/ The plates documenting the individual wells are presented in Appendix 3.							
	2/ Some wells are used for domestic and stockwatering purposes.							
	3/ For wells without documented yields, use a default vaule of 4 gpm which is representative for this							
	class of facilities.							
	4/ The X and Y values are the coordinates for the location of the well in UTM Zone 12 North							
	American Datum 1927.							

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
Dinnebito Wash												
S	12	175	SALT WATER SP	ND	6.5	511654	3949611	DINNEBITO WASH	No	WIL	NOT ON (	SALT WATER SP
S	12	176	03M-01	ND	6.5	506427	3952463	DINNEBITO WASH	No	1963	COLLECT	03M-01
S	12	177	SAND SPRINGS	3	6.5	506412	3952482	DINNEBITO WASH	No			SAND SPRINGS
S	12	178		ND	6.5	506130	3953250	DINNEBITO WASH	No	1991 AERIAL		
S	12	179		ND	6.5	506055	3953342	DINNEBITO WASH	No	1991 AERIAL		
S	12	180	DVAS SPRING	ND	6.5	503669	3952976	DINNEBITO WASH	No	QUAD/WI	NO OTHE	DVAS SPRING
S	12	181	WHISKEY SPRING	ND	6.5	505500	3955591	DINNEBITO WASH	No	QUAD/WI	NO OTHE	WHISKEY SPRING
S	12	182	05M-04	ND	6.5	505702	3955221	DINNEBITO WASH	No	1963	TROUGH,	05M-04
S	12	183		ND	6.5	511885	3949859	DINNEBITO WASH	No	QUAD	THREE SPRINGS/PROBABLY NOT DEVELOPED	
S	12	230	5M-73	ND	6.5	510533	3949451	DINNEBITO WASH	No	111 ALVI	State Lan	5M-73
S	12	327	TISHEPI SPRING	ND	6.5	504509	3949560	DINNEBITO WASH	No		From Trit	TISHEPI SPRING
S	12	328		ND	6.5	504732	3945470	DINNEBITO WASH	No	Quad, et. al.		
S	12	329		ND	6.5	512023	3950016	DINNEBITO WASH	No	Quad		
S	3	28	MANY SHEEP SP	ND	6.5	552631	4016288	DINNEBITO WASH	No			
S	3	30	POST SP	ND	6.5	552572	4017705	DINNEBITO WASH	No			
S	3	227	4M-207	ND	6.5	551478	4018143	DINNEBITO WASH	No	211 WEP	State Lan	4M-207
S	3	228	4M-58	ND	6.5	549466	4016534	DINNEBITO WASH	No	211 WEP	State Lan	4M-58
S	6	67	BA HA ZOHNNIE BITO	ND	6.5	533704	3988804	DINNEBITO WASH	No	QUAD 19	HAND PU	04M-123
S	6	68	BOBCAT SPRING	ND	6.5	525132	3985201	DINNEBITO WASH	No	JUA QUA	NOT ON (	JUA-2-A-393
S	6	69	SALT SEEP SP	ND	6.5	527910	3985425	DINNEBITO WASH	No	JUA QUA	NOT ON (	JUA-2-A-149
S	6	70	DOVE SPRING	ND	6.5	528333	3986258	DINNEBITO WASH	No	1963/JU	ON QUAD	04M-149A
S	6	71	SUNLIGHT SPRING	ND	6.5	528633	3986259	DINNEBITO WASH	No			SUNLIGHT SPRING
S	6	72	WASH RUINS SPRING	ND	6.5	529105	3987401	DINNEBITO WASH	No	JUA QUA	ON QUAD	
S	6	73	WHITE CAVE SPRING	0	6.5	531474	3988188	DINNEBITO WASH	No	JUA QUAD		
S	6	74	BA HA ZOHNNIE BITO	ND	6.5	533755	3988773	DINNEBITO WASH	No	QUAD 19	WIL - NO	04M-123A
S	6	76	TOCHAI SPRING	ND	6.5	535359	3987978	DINNEBITO WASH	No	10/2/91	258/JUA-2-13-12 3	
S	6	77	TOH AH HONNIE BETOH SP	ND	6.5	534568	3991950	DINNEBITO WASH	No	10/2/91	257	
S	6	223	4M-142	ND	6.5	533576	3991878	DINNEBITO WASH	No	211 WEP	State Lan	4M-142
S	6	336	TOH HONI NI TOH	ND	6.5	534414	3992017	DINNEBITO WASH	No	GNIS, Quad		TOH HONI NI TOH
S	7	56	BIG MOUNTAIN SP	ND	6.5	547137	4008246	DINNEBITO WASH	No	QUAD/JUA		04M-187
S	7	219	4GS-74-1	ND	6.5	546302	4000954	DINNEBITO WASH	No	211 WEP	State Lan	4GS-74-1
S	8	84	JUA-5B-1-332	ND	6.5	510455	3970722	DINNEBITO WASH	No	WORKMA	SHOWS SPRING	
S	8	87		ND	6.5	521760	3978018	DINNEBITO WASH	No	QUAD		
S	8	117	DINNEBITO SPRING	ND	6.5	508097	3961217	DINNEBITO WASH	No	QUAD/1(	NOT IN STUDIES	
S	8	118	HOCK SPRING	2	6.5	508428	3967393	DINNEBITO WASH	No		MAY BE (	3M-172
S	8	119	HAMANA SP	ND	6.5	518323	3961493	DINNEBITO WASH	No	WIL'S QU	NOT ON QUAD	
S	8	337	RED CLAY SPRING	ND	6.5	520678	3969297	DINNEBITO WASH	No	GNIS, Quad		RED CLAY SPRING
S	9	92	HOTEVILLA SPRING	ND	6.5	529469	3975857	DINNEBITO WASH	No	WIL/QUAD		
S	9	95	06M-63	ND	6.5	532884	3980667	DINNEBITO WASH	No	4-63/QU	CHEM ANALYSIS-GOOD- 3 GPM/1955	
S	9	302		ND	6.5	525797	3975741	DINNEBITO WASH	No		Quad, et. al.	
S	9	306		ND	6.5	530036	3976138	DINNEBITO WASH	No		T.J. Ferguson	
		Subtotal Dinnebito Wash 1882 Area			266.5							
		Subtotal Dinnebito Wash 1934 Area			None							

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
Jedito Wash												
S	11	172	C1-27B	ND	6.5	586682	3963192	JEDITO WASH	No			
S	11	173	07H-27	ND	6.5	587343	3962930	JEDITO WASH	No	WORK MA	WORK MAP AS SPRING/ALSO ON QUAD	
S	11	174	07H-27A	ND	6.5	587258	3963352	JEDITO WASH	No	WORK MA	WORK MAP ON SPRING	
S	14	192	PONSI ADAMS SPRING	ND	6.5	561416	3952630	JEDITO WASH	No			06M-16
S	14	193	AWAT OVI SP	ND	6.5	565322	3953311	JEDITO WASH	No	WIL	Location moved to T.J.'s	
S	14	194	TALAHOGAN SP	2	6.5	565486	3954582	JEDITO WASH	No	QUAD/WI	WELL SH	06M-13
S	14	195	KALBITO SP #2	ND	6.5	551939	3930699	JEDITO WASH	No	1991 AERIAL		
S	14	196	KALBITO SP #1	ND	6.5	551927	3930946	JEDITO WASH	No	1991 AERIAL		
S	14	197	COMAR SP	ND	6.5	552986	3931818	JEDITO WASH	No	QUAD, 19	1963 WA	07H-79
S	14	198	SEBA DALKAI	1	6.5	554004	3937698	JEDITO WASH	No			
S	14	199	LUKAI SP	1	6.5	559191	3930937	JEDITO WASH	No	BIA/QUA	R.U. JUA	7H-76
S	14	200	WOLF PASS SP/WELL	2	6.5	560634	3931314	JEDITO WASH	No	BIA/QUA	R.U. JUA STC 7H76/559	
S	14	201	RAM SPRING	ND	6.5	563730	3931785	JEDITO WASH	No	BIA/QUA	7H-233/5	7H-233
S	14	202	SHANATOH SP	1	6.5	564151	3933976	JEDITO WASH	No	BIA/QUA	7H-234	7H-234
S	14	203	BELL BUTTE SP	ND	6.5	559323	3935416	JEDITO WASH	No	BIA/QUA	R.U. JUA STC 7H76/559	
S	14	204	HORSE SP	1	6.5	561808	3936549	JEDITO WASH	No	BIA/QUA	7H-236/5	7H-236
S	14	247	7H-179	ND	6.5	559291	3935416	JEDITO WASH	No		State Lan	7H-179
S	14	252	6M-38	ND	6.5	550051	3943253	JEDITO WASH	No			6M-38
S	14	330	TRICKLE SPRING	ND	6.5	564983	3954197	JEDITO WASH	No	T.J. Ferguson		TRICKLE SPRING
S	14	331	LEMOVA SP	ND	6.5	566054	3955253	JEDITO WASH	No			HAIL SPRING
S	14	333		ND	6.5	559277	3935438	JEDITO WASH	No	Quad	Added from Quad	
		Subtotal Jedito Wash 1882 Area			136.5							
		Subtotal Jedito Wash 1934 Area			None							
Moenkopi Wash												
S	1	3	SMOKE HOLE TANK	ND	6.5	513399	4013366	MOENKOPI WASH	No	QUAD	MAYBE S	SMOKE HOLE TANK
S	1	4	KAI SI KATO	ND	6.5	517830	4017572	MOENKOPI WASH	No	1963	KAI SI KA	01A-66
S	1	5		ND	6.5	520671	4019019	MOENKOPI WASH	No	WIL	NOTHING ON QUAD	
S	1	6	WELL UNDER THE ROCK	ND	6.5	517744	4024065	MOENKOPI WASH	No	QUAD/WI	QUAD SHOW SPRING	
S	1	7		ND	6.5	514522	4013306	MOENKOPI WASH	No		UNDEVELOPED	
S	2	1	WET HOLE SPRING	ND	6.5	543897	4026777	MOENKOPI WASH	No	JUA/196	JUA - 2-2	02A-60
S	2	8		ND	6.5	525024	4014255	MOENKOPI WASH	No	JUA-MAN	NOT ON QUAD/ASL LISTS	
S	2	9		ND	6.5	524298	4015239	MOENKOPI WASH	No	JUA-MAN	NOT ON QUAD/ASL LISTS	
S	2	10	BLU MOENCOPI SPRING	ND	6.5	527349	4012690	MOENKOPI WASH	No	JUA-MAN	Not on qu	JUA2456
S	2	11	COAL SLURRY SPRING	ND	6.5	529582	4016333	MOENKOPI WASH	No	1963-WIL	Chemical	02A-56
S	2	12	COTTONWOOD SPRING	ND	6.5	531461	4017428	MOENKOPI WASH	No	JUA QUAD/QUAD		JUA-2-4-2
S	2	13	WHITE SANDSTONE SPRING	ND	6.5	531099	4017756	MOENKOPI WASH	No	JUA QUA	not on fin	JUA-2-4-1
S	2	14	DOG SPRING	ND	6.5	532211	4020564	MOENKOPI WASH	No	QUAD	NOT NOTED ON JUA	
S	2	15	KYDESTEA SPRING	ND	6.5	529495	4020365	MOENKOPI WASH	No	JUA/QUAD		JUA-2-1-7
S	2	16	MARKED TRAIL SPRING	ND	6.5	528193	4021597	MOENKOPI WASH	No	JUA		JUA-2-1-6
S	2	17	COTTONWOOD	ND	6.5	526468	4023286	MOENKOPI WASH	No	1963/JU	NEAR CO	02A-07
S	2	18	TWIN CORRAL SPRING	ND	6.5	531944	4025277	MOENKOPI WASH	No	1963 WIL	AKA JUA	02A-54
S	2	19	WALK A MILE SPRING	ND	6.5	542763	4014653	MOENKOPI WASH	No	1963	TROUGH	4K-349
S	2	20	RED WILLOW SPRING	ND	6.5	540712	4020599	MOENKOPI WASH	No		JUA MAP	04M-60
S	2	21	TWO HEADED SNAKE SPRING	ND	6.5	536529	4019287	MOENKOPI WASH	No	1963 NA	NADSAT	04M-61
S	2	22	COTTONWOOD SPRING	ND	6.5	541427	4020531	MOENKOPI WASH	No			JUA2-2-7

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	2	23	LOOKING WOMAN SPRING	ND	6.5	543429	4020705	MOENKOPI WASH	No		questionable	
S	2	24	BLACK HORSE SPRING	ND	6.5	543135	4020889	MOENKOPI WASH	No		COULD B	JUA2-2-6
S	2	25	SIDE WASH SP	ND	6.5	538137	4022252	MOENKOPI WASH	No		MAYBE 0	JUA2-5-1
S	2	26	NARROW NECK SPRING	ND	6.5	538733	4022778	MOENKOPI WASH	No		MAYBE 0	JUA2-2-5
S	2	27	GRAVEL HOLE SPRING	ND	6.5	541937	4025042	MOENKOPI WASH	No			JUA2-2-4
S	2	210	2A-59	ND	6.5	540434	4024033	MOENKOPI WASH	No	111 ALVI	State Lan	2A-59
S	2	212	3A-189A	ND	6.5	535606	4013412	MOENKOPI WASH	No		State Lan	3A-189A
S	2	300		ND	6.5	540643	4019177	MOENKOPI WASH	No		Quad, et. al.	
S	3	2	LANDSLIDE SPRING	ND	6.5	547853	4027753	MOENKOPI WASH	No		JUA 2-2-2	LANDSLIDE SPRING
S	3	29	FLAT TOP SLIDE SP	ND	6.5	548317	4024983	MOENKOPI WASH	No			
S	3	31	OWL SPRING	ND	6.5	551133	4024968	MOENKOPI WASH	No			
S	3	226	4M-190A	ND	6.5	554858	4028845	MOENKOPI WASH	No	211 WEP	State Lan	4M-190A
S	5	32	01A-74	ND	6.5	500924	4009905	MOENKOPI WASH	No	1963	UNDEVEL	01A-74
S	5	33	NEE DE MISO BITO	ND	6.5	500924	4009536	MOENKOPI WASH	No	QUAD		1A-75
S	5	34	BITTER SP	ND	6.5	508985	4010094	MOENKOPI WASH	No	QUAD	FROM QU	BITTER SP
S	5	35	COLD WATER SP	ND	6.5	502042	4005058	MOENKOPI WASH	No	QUAD	FROM QU	COLD WATER SP
S	5	36	01A-83	ND	6.5	506346	4002575	MOENKOPI WASH	No	1963/QU	MASONS	01A-83
S	5	37	WILD HORSE SP	ND	6.5	511102	3999749	MOENKOPI WASH	No	QUAD	FROM QU	WILD HORSE SP
S	5	38	4 SHEEP SPRING	ND	6.5	514615	4002215	MOENKOPI WASH	No	WIL,QUA	3 SPRINGS	
S	5	39	BASE OF COTTONWOOD SPRING	ND	6.5	517503	4007396	MOENKOPI WASH	No	WIL,QUAD	& MAN	
S	5	57	ROUND ROCK	ND	6.5	506375	3996783	MOENKOPI WASH	No	WIL/WOR	NOT ON QUAD OR WIL'S	
S	5	58	MUDDY WATER	ND	6.5	505050	3996011	MOENKOPI WASH	No	WIL/WOR	AKA "MUDDY IN SUMMER"	
S	5	59	NEZ SPRING	ND	6.5	506429	3990621	MOENKOPI WASH	No	WIL/WORK	MAP	
S	5	60	BADGER SP	ND	6.5	512140	3988640	MOENKOPI WASH	No	MANUSCR	IPT	03M-159A1
S	5	61	LOWER BADGER SP	ND	6.5	512060	3988901	MOENKOPI WASH	No	1963	LAT & LO	03M-159
S	5	62	03M-159A2	ND	6.5	512085	3988778	MOENKOPI WASH	No	MANUSCR	IPT	03M-159A2
S	5	63	JUA2-8-844B	ND	6.5	521484	3992647	MOENKOPI WASH	No	MANUSC	LOCATIO	JUA2-8-844B
S	5	64	LOG CRIB	ND	6.5	522183	3993234	MOENKOPI WASH	No	MANUSC	LOC=QUA	LOG CRIB
S	5	65	2-9-139A	ND	6.5	520778	3995295	MOENKOPI WASH	No			SHALE SPRING
S	5	66	JUA2-8-344A	6	9.2	519425	3996463	MOENKOPI WASH	No			WILLOW SPRING
S	5	206	1A-70	ND	6.5	505402	4011344	MOENKOPI WASH	No	220 NVJ	State Lan	1A-70
S	5	207	1A-79	ND	6.5	517874	4010459	MOENKOPI WASH	No	211 TOR	State Lan	1A-79
S	5	209	1A-82	ND	6.5	509747	4001688	MOENKOPI WASH	No	111 ALVI	State Lan	1A-82
S	5	217	3GS-76-1	ND	6.5	504275	3996619	MOENKOPI WASH	No	220 NVJ	State Lan	3GS-76-1
S	5	301	BAT SPRING	ND	6.5	513753	3986779	MOENKOPI WASH	No		Quad, et.	BAT SPRING
S	6	40	UNNAMED	ND	6.5	523897	3997676	MOENKOPI WASH	No	QUAD	UNDEVEL	SPRING
S	6	41	HAND BUILT SPRING	ND	6.5	524821	3997740	MOENKOPI WASH	No	JUA-QUA	SIGNIFIC	JUA-2-9-391
S	6	42	TOH-AH-CHI	ND	6.5	530674	3996742	MOENKOPI WASH	No		COULD B	JUA-2-A-163
S	6	43	NAKAI YAZZIE SP	ND	6.5	529341	3999263	MOENKOPI WASH	No	1963/QU	DUG WEL	04M-143
S	6	44	04M-137	ND	6.5	525135	4001469	MOENKOPI WASH	No	10/2/91	USGS QUAD	
S	6	45	DANGER SPRING	ND	6.5	531894	4004880	MOENKOPI WASH	No	JUA-QUAD/WIL		JUA-2-10-384A
S	6	46	SAND SPRING	ND	6.5	530289	4006846	MOENKOPI WASH	No	JUA-QUAD/WIL		JUA-2-9-80A
S	6	47	2 SHEEP	ND	6.5	524597	4006304	MOENKOPI WASH	No	JUA-QUA	NOT DEV	01A-80
S	6	48	MANY FAST DRIP	ND	6.5	523849	4005778	MOENKOPI WASH	No	JUA-QUAD/WIL		JUA-2-10-80
S	6	49	HORSE THIEF SPRING	ND	6.5	524663	4009416	MOENKOPI WASH	No	QUAD/JU	MAYBE 01A-80A	
S	6	50	CLIFF DWELLING SPRING	ND	6.5	533770	4004271	MOENKOPI WASH	No	QUAD &	RU-259 J	JUA2-10-384B
S	6	51	HORSE SPRING	ND	6.5	538040	4004566	MOENKOPI WASH	No	QUAD &	RU-259 J	JUA2-11-384

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	6	52	NARROW LEDGE SPRING	ND	6.5	533880	4007999	MOENKOPI WASH	No	QUAD &	260 JUA-	JUA2-4-1940
S	6	53	BIG MTN SPRING	ND	6.5	541969	4008219	MOENKOPI WASH	No	QUAD &	262	04T-5-4
S	6	54	SWEET WATER SP	ND	6.5	536944	4009799	MOENKOPI WASH	No	QUAD &	260	04M-194E
S	6	55	KINNI TAAH WELL	ND	6.5	536693	4010044	MOENKOPI WASH	No	QUAD &	260	04M-144A
S	6	75	TIS-YA-TOH	1	6.5	524938	3992009	MOENKOPI WASH	No	1963	ON QUAD	04M-130
S	6	208	1A-80A	ND	6.5	523357	4008695	MOENKOPI WASH	No	111 ALV	State Lan	1A-80A
S	6	222	4M-139	ND	6.5	524805	3992521	MOENKOPI WASH	No	211 TOR	State Lan	4M-139
S	6	224	4M-145	ND	6.5	534220	4004028	MOENKOPI WASH	No	211 WEP	State Lan	4M-145
S	6	225	4M-146	ND	6.5	533415	4004994	MOENKOPI WASH	No	211 TOR	State Lan	4M-146
S	6	229	4M-66	ND	6.5	534220	4008293	MOENKOPI WASH	No	211 TOR	State Lan	4M-66
S	6	335	TOH AH CHI	ND	6.5	530647	3997762	MOENKOPI WASH	No	GNIS, Quad		TOH AH CHI
S	8	85		ND	6.5	510223	3976298	MOENKOPI WASH	No	A1 PHOTO		
S	8	86	NEW SPRING	ND	6.5	502880	3981222	MOENKOPI WASH	No	PHOTO	RECENTL	NEW SPRING
	Subtotal Moenkopi Wash 1882 Area				529.2							
S	4	211	3A-15	ND	6.5	484470	3994256	MOENKOPI WASH	Yes	220 NVJ	State Lan	3A-15
S	4	213	3A-23	ND	6.5	477791	3982620	MOENKOPI WASH	Yes	220 NVJ	State Lan	3A-23
S	4	214	3A-25	ND	6.5	478033	3980689	MOENKOPI WASH	Yes	220 NVJ	State Lan	3A-25
S	4	215	3B-265	ND	6.5	479964	3996187	MOENKOPI WASH	Yes		State Lan	3B-265
S	4	216	3B-266	ND	6.5	479883	3996348	MOENKOPI WASH	Yes		State Lan	3B-266
S	4	218	3GS-77-6	ND	6.5	479964	3996268	MOENKOPI WASH	Yes		State Lan	3GS-77-6
S	4	257		ND	6.5	475710	3993497	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	258		ND	6.5	476404	3994186	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	259		ND	6.5	478110	3984050	MOENKOPI WASH	Yes	From Trit	From Tribe	
S	4	260		ND	6.5	477078	3987108	MOENKOPI WASH	Yes	T.J. Ferg	T.J. Ferguson, et. al.	
S	4	261		ND	6.5	475679	3993718	MOENKOPI WASH	Yes		From Tribe	
S	4	262		ND	6.5	477118	3994584	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	263		ND	6.5	477205	3994601	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	264		ND	6.5	477313	3994604	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	265		ND	6.5	480187	3995934	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	266		ND	6.5	480188	3995829	MOENKOPI WASH	Yes		Quad, et. al.	
S	4	267		ND	6.5	480225	3995911	MOENKOPI WASH	Yes		Quad	
S	4	268		ND	6.5	480225	3995833	MOENKOPI WASH	Yes		Quad	
S	4	269		ND	6.5	480528	3995647	MOENKOPI WASH	Yes		T.J. Ferguson	
S	4	270		ND	6.5	480928	3996626	MOENKOPI WASH	Yes		Quad, others near	
S	4	271		ND	6.5	480911	3995648	MOENKOPI WASH	Yes		Quad, others near	
S	4	272		ND	6.5	480996	3995589	MOENKOPI WASH	Yes		Quad, others near	
S	4	273		ND	6.5	481015	3995579	MOENKOPI WASH	Yes		Tribe, 4/2000, Tall Cottonwood Sp.	
S	4	274		ND	6.5	481193	3995388	MOENKOPI WASH	Yes		T.J. Ferguson, Tribe 4/00, 3 Wise Men nr.	
S	4	275		ND	6.5	481507	3995537	MOENKOPI WASH	Yes		Quad, Tribe 4/00 near	
S	4	276		ND	6.5	481698	3995557	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	277		ND	6.5	482178	3995482	MOENKOPI WASH	Yes		Quad, Tribe 4/00	
S	4	278		ND	6.5	482403	3995418	MOENKOPI WASH	Yes			
S	4	279		ND	6.5	482602	3995232	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	280		ND	6.5	482610	3995243	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	281		ND	6.5	482634	3995222	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	282		ND	6.5	482759	3995183	MOENKOPI WASH	Yes		Tribe 4/00	

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	4	283		ND	6.5	482820	3995181	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	284		ND	6.5	482509	3994580	MOENKOPI WASH	Yes		Quad, others near	
S	4	285		ND	6.5	482885	3995137	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	286		ND	6.5	483006	3995184	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	287		ND	6.5	483371	3995105	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	288		ND	6.5	483438	3995114	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	289		ND	6.5	483470	3995105	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	290		ND	6.5	483530	3995046	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	291		ND	6.5	483626	3995006	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	292		ND	6.5	484151	3995134	MOENKOPI WASH	Yes		Quad, others near	
S	4	293		ND	6.5	484703	3995434	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	294		ND	6.5	484832	3995462	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	295		ND	6.5	484825	3995395	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	296		ND	6.5	485599	3995895	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	297		ND	6.5	485129	3995731	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	298		ND	6.5	485162	3995741	MOENKOPI WASH	Yes		Tribe 4/00	
S	4	299		ND	6.5	484652	3993788	MOENKOPI WASH	Yes		Quad, et. al.	
		Subtotal	Moenkopi Wash 1934 Area		318.5							
Oraibi Wash												
S	6	248	4T-519/BM OBS 5	ND	6.5	544055	3985553	ORAIBI WASH	No			4T-519/BM OBS 5
S	7	237	6K-314	ND	6.5	553705	3985666	ORAIBI WASH	No	211 WEP	State Lan	6K-314
S	7	238	6K-315	ND	6.5	553383	3984459	ORAIBI WASH	No	211 WEP	State Lan	6K-315
S	7	240	6M-130	ND	6.5	554187	3987275	ORAIBI WASH	No	211 WEP	State Lan	6M-130
S	8	243	6M-45	ND	6.5	521084	3957383	ORAIBI WASH	No	111 ALV	State Lan	6M-45
S	9	88	MUMURS-VA	ND	6.5	528120	3970972	ORAIBI WASH	No	1963	DUG WEL	06-M58
S	9	89	HOOUI-PA SP	ND	6.5	531005	3973759	ORAIBI WASH	No	QUAD/WIL		DOVE SPRING
S	9	90	BACAVI SP	ND	6.5	530719	3975201	ORAIBI WASH	No	1963/QU	DRY IN '5	06M-72A
S	9	91		ND	6.5	532475	3976198	ORAIBI WASH	No	1991 AERIAL		
S	9	93		ND	6.5	542779	3975164	ORAIBI WASH	No	JUA		UNNAMED
S	9	94	BA DU WE SPRING	ND	6.5	542811	3978892	ORAIBI WASH	No	BIA/TRIBE		
S	9	111		ND	6.5	532163	3972469	ORAIBI WASH	No	WIL'S QU	ON QUAD	
S	9	131	DOVE SP	ND	6.5	541987	3965065	ORAIBI WASH	No	QUAD +		DOVE SP
S	9	132	CAVE SP	ND	6.5	539907	3967263	ORAIBI WASH	No	QUAD +		CAVE SP
S	9	133		ND	6.5	542489	3967768	ORAIBI WASH	No	QUAD +		UNNAMED
S	9	134		ND	6.5	542914	3967799	ORAIBI WASH	No	QUAD +		UNNAMED
S	9	135	RUINS SP	ND	6.5	542972	3967993	ORAIBI WASH	No	1963		06M-39
S	9	163	06K-04S	ND	6.5	530014	3963034	ORAIBI WASH	No	1963	COLLECT	06K-04S
S	9	303		ND	6.5	528384	3972144	ORAIBI WASH	No		T.J. Ferguson	
S	9	304		ND	6.5	528824	3973060	ORAIBI WASH	No		Quad, T.J.	
S	9	305		ND	6.5	532504	3976289	ORAIBI WASH	No		T.J. Ferguson, 1991 aerial south	
S	9	307		ND	6.5	533884	3971212	ORAIBI WASH	No		Tribe	
S	9	308		ND	6.5	540415	3980705	ORAIBI WASH	No		Quad, et. al.	
S	10	96	GOAT SPRINGS	ND	6.5	545329	3976347	ORAIBI WASH	No	QUAD		
S	10	98	ONION SPRINGS	1	6.5	546358	3983631	ORAIBI WASH	No			
S	10	236	6K-310S	ND	6.5	545447	3982359	ORAIBI WASH	No	211 TOR	State Lan	6K-310S
S	10	254	Harry K Spring	ND	6.5	546012	3977873	ORAIBI WASH	No			Harry K Spring

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	13	184	SHONTO SP	2	6.5	523141	3947847	ORAIBI WASH	No	QUAD		SHONTO SP
S	13	185	06M-33	ND	6.5	525945	3947511	ORAIBI WASH	No	QUAD 19	WIL BILL	06M-33
S	13	186	06M-32	ND	6.5	527208	3949509	ORAIBI WASH	No	QUAD 19	WIL HAS	06M-32
S	13	187	BURRO SPRING	1	6.5	527803	3950371	ORAIBI WASH	No	10/2/91	"BURRO S	06M-31
S	13	188		ND	6.5	528094	3950662	ORAIBI WASH	No	QUAD		
S	13	253	6M-54	ND	6.5	523152	3947794	ORAIBI WASH	No			6M-54
S	13	334	PA'UTSVI	ND	6.5	527564	3950372	ORAIBI WASH	No	T.J. Ferguson		PA'UTSVI
		Subtotal Oraibi Wash 1882 Area			221.0							
		Subtotal Oraibi Wash 1934 Area			None							

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
Polacca Wash												
S	7	78	HASTIIN AKAHIBITO	ND	6.5	561528	3985596	POLACCA WASH	No	QUAD	RU-351	
S	7	79	CROOKNED FINGER SP	ND	6.5	561541	3987199	POLACCA WASH	No	QUAD 19	RU-351 S	04M-105
S	7	80	UNNAMED SPRING	ND	6.5	561516	3987322	POLACCA WASH	No	PHOTO 1	RU-351	
S	7	81	UNDER ROCK SPRING	ND	6.5	562334	3988313	POLACCA WASH	No	1963	RU-351 F	04M-102
S	7	82	UNNAMED SPRING	ND	6.5	562209	3988374	POLACCA WASH	No	PHOTO 1	RU-351	
S	7	83	ROUGH ROCK SP	ND	6.5	561730	3988802	POLACCA WASH	No	1963		04M-104
S	7	220	4M-103	ND	6.5	562556	3988080	POLACCA WASH	No	211 WEP	State Lan	4M-103
S	7	221	4M-105A	ND	6.5	561349	3985505	POLACCA WASH	No	211 WEP	State Lan	4M-105A
S	9	120	STINK BUG SP	ND	6.5	542215	3962036	POLACCA WASH	No	QUAD +		STINK BUG SP
S	9	121	GROOMING SPRING	ND	6.5	543037	3962324	POLACCA WASH	No	QUAD +		GROOMING SPRING
S	9	122	BROWN ROCK SPRING	ND	6.5	542239	3962375	POLACCA WASH	No	1963/WIL	/QUAD	06H-27
S	9	123	WHITE HALL SP	ND	6.5	542606	3962889	POLACCA WASH	No	QUAD +		WHITE HALL SP
S	9	124	WHITE HALL SP	ND	6.5	542616	3962928	POLACCA WASH	No	QUAD +		WHITE HALL SP
S	9	125		ND	6.5	543265	3962935	POLACCA WASH	No	QUAD +		UNNMAED
S	9	126	CORNER	ND	6.5	542677	3963275	POLACCA WASH	No	QUAD +		CORNER
S	9	127	SUEIVA SP	ND	6.5	542588	3963274	POLACCA WASH	No	QUAD +		SUEIVA SP
S	9	128	BLUEBIRD SP	ND	6.5	541757	3963451	POLACCA WASH	No	QUAD +		BLUEBIRD SP
S	9	129	SHADED SP	ND	6.5	543085	3963704	POLACCA WASH	No	QUAD +		SHADED SP
S	9	130	06H-24	ND	6.5	544539	3965237	POLACCA WASH	No	1963 QU	COLLECT	06H-24
S	9	324	GRAY SPRING	ND	6.5	543259	3961687	POLACCA WASH	No	T.J. Ferg	T.J. has c	GRAY SPRING
S	9	325	LOMOVA	ND	6.5	543262	3961690	POLACCA WASH	No	T.J. Ferg	Check ag	LOMOVA
S	9	326	SONGOOPA	ND	6.5	543153	3962165	POLACCA WASH	No	T.J. Ferguson		SONGOOPA
S	10	97	CEREMONIAL FLUTE SPRING	ND	6.5	556217	3974758	POLACCA WASH	No			
S	10	99	SHEEP SP	ND	6.5	557247	3970162	POLACCA WASH	No	QUAD/RA	LPH/WIL	
S	10	100	SAND HILL SP	ND	6.5	558916	3971775	POLACCA WASH	No	1963/QU	COLLECT	06H-03
S	10	101	UNNAMED	ND	6.5	557001	3971776	POLACCA WASH	No	QUAD/RA	COLLECT	06H-02
S	10	102	WEPO SP	8	12.9	557252	3971904	POLACCA WASH	No	QUAD/RA	YIELD FOR E.WEPO/W.WEPO = 9 GPM/14.5 AC. FT.	
S	10	103	UNNAMED SP	ND	6.5	557795	3972431	POLACCA WASH	No	QUAD/RA	LPH/WIL	
S	10	104	FLY SP	ND	6.5	560543	3972218	POLACCA WASH	No	1991 AER	T.J. has 575m north of here	
S	10	105	SAND SP	ND	6.5	558321	3974668	POLACCA WASH	No	1991 AER	ONE IS PROBABLY 06H-07	
S	10	106	UNNAMED SP	ND	6.5	558370	3974760	POLACCA WASH	No	1991 AERIAL		
S	10	107	DONKEY SP	ND	6.5	559458	3976986	POLACCA WASH	No	1991 AERIAL		DONKEY SP
S	10	108	MANURE SP	ND	6.5	563269	3979557	POLACCA WASH	No	1991 AERIAL		
S	10	109	UNNAMED SPRING	ND	6.5	561067	3979893	POLACCA WASH	No	1991 AERIAL		06H-12
S	10	110	CAT SP	ND	6.5	566726	3981978	POLACCA WASH	No	1991 AERIAL		
S	10	136	LEMOVA SP	ND	6.5	546674	3962213	POLACCA WASH	No	QUAD +	PROBABL	06M-21
S	10	137	TOREVA SP	ND	6.5	545347	3962252	POLACCA WASH	No	QUAD +	T.J. has s	06M-20
S	10	138	DRIFTWOOD SP	ND	6.5	560351	3963651	POLACCA WASH	No	QUAD +		
S	10	139	AQWDA SP	ND	6.5	545643	3964054	POLACCA WASH	No	QUAD +		
S	10	140	AQIVA SP	ND	6.5	545639	3964662	POLACCA WASH	No			
S	10	141	TWAPA SP	ND	6.5	555224	3965139	POLACCA WASH	No			
S	10	142	UNNAMED SP	ND	6.5	554606	3966029	POLACCA WASH	No			
S	10	143	SPIDER SP	ND	6.5	554636	3966239	POLACCA WASH	No			
S	10	144	COYOTE SP	ND	6.5	555652	3965955	POLACCA WASH	No			
S	10	145	FLOWER SP	ND	6.5	556328	3966628	POLACCA WASH	No		PROBABL	06M-68
S	10	146	BEAN SP	ND	6.5	556212	3969707	POLACCA WASH	No			

Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	10	147		ND	6.5	565340	3957463	POLACCA WASH	No			UNNAMED
S	10	148	BUHU VA SP	1	6.5	563208	3960744	POLACCA WASH	No	QUAD		
S	10	149	06M-04	ND	6.5	566243	3961013	POLACCA WASH	No	1963/QU	NOT DEV	06M-04
S	10	150	SACTONE SP	ND	6.5	567311	3964731	POLACCA WASH	No	QUAD		
S	10	151	WENI BAH SPRING	ND	6.5	561061	3969880	POLACCA WASH	No	QUAD		06M-67
S	10	205	SKULL SPRING	ND	6.5	561322	3975551	POLACCA WASH	No	BIA/QUA	7H-69 OF	7H-69
S	10	231	6H-1	ND	6.5	554482	3966144	POLACCA WASH	No		State Lan	6H-1
S	10	232	6H-17	ND	6.5	546679	3962443	POLACCA WASH	No		State Lan	6H-17
S	10	233	6H-20	ND	6.5	545389	3962443	POLACCA WASH	No		State Lan	6H-20
S	10	234	6H-6	ND	6.5	556735	3970007	POLACCA WASH	No		State Lan	6H-6
S	10	235	6H-7	ND	6.5	558183	3974754	POLACCA WASH	No	211 TORY	State Lan	6H-7
S	10	239	6M-12	ND	6.5	565348	3959303	POLACCA WASH	No	211 TORY	State Lan	6M-12
S	10	241	6M-302A	ND	6.5	556896	3970087	POLACCA WASH	No	111 ALVN	State Lan	6M-302A
S	10	242	6M-302B	ND	6.5	556815	3970007	POLACCA WASH	No	111 ALVN	State Lan	6M-302B
S	10	244	6M-68	ND	6.5	556134	3967095	POLACCA WASH	No		State Lan	6M-68
S	10	245	6M-70	ND	6.5	548608	3975881	POLACCA WASH	No		State Lan	6M-70
S	10	246	6M-9	ND	6.5	554723	3962765	POLACCA WASH	No	111 ALVN	State Lan	6M-9
S	10	250	6-F-1	ND	6.5	561136	3966214	POLACCA WASH	No			6-F-1
S	10	251	6K-305-94	ND	6.5	554195	3956981	POLACCA WASH	No		Added in	6K-305-94
S	10	309		ND	6.5	553913	3970419	POLACCA WASH	No		T.J. Ferguson	
S	10	310	SAND SPRING	ND	6.5	558300	3976972	POLACCA WASH	No		T.J. Only	SAND SPRING
S	10	316		ND	6.5	566755	3968795	POLACCA WASH	No		T.J. Ferguson	
S	10	317	NEW WATER	ND	6.5	551800	3968096	POLACCA WASH	No	T.J. Ferguson		NEW WATER
S	10	318	BIG WATER	ND	6.5	550828	3968134	POLACCA WASH	No	T.J. Ferguson		BIG WATER
S	10	319	SAND WATER	ND	6.5	556134	3968390	POLACCA WASH	No	T.J. Ferguson		SAND WATER
S	10	320	SHORT ROOTS WATER	ND	6.5	554054	3964705	POLACCA WASH	No	T.J. Ferguson		SHORT ROOTS WATER
S	10	321	MANY WIND WATER	ND	6.5	553639	3957747	POLACCA WASH	No	T.J. Fergu	probably	MANY WIND WATER
S	10	322		ND	6.5	545253	3963196	POLACCA WASH	No		Tribe/DLG	
S	10	323		ND	6.5	545331	3963532	POLACCA WASH	No		T.J./Quad	
S	11	112	06M-82	ND	6.5	574950	3972580	POLACCA WASH	No		COLLECT	06M-82
S	11	113		ND	6.5	571591	3971633	POLACCA WASH	No	WORK QU	ON WORKING QUAD	
S	11	114	D. LALO SP	ND	6.5	578047	3971831	POLACCA WASH	No	WIL'S QU	NOT ON QUAD - NO INFO	
S	11	115		ND	6.5	575304	3972924	POLACCA WASH	No	ON QUAD		
S	11	116	07H-06	ND	6.5	586898	3973498	POLACCA WASH	No	1963 & C	MASONA	07H-06
S	11	152		ND	6.5	568814	3959738	POLACCA WASH	No	USGS QU	ON QUAD NO NAME	
S	11	153		ND	6.5	569086	3960264	POLACCA WASH	No	USGS QU	ON QUAD NO NAME	
S	11	154	BLUEBIRD SPRING	2	6.5	568527	3960621	POLACCA WASH	No	USGS QU	BLUEBIR	06M-11
S	11	155		ND	6.5	570054	3962391	POLACCA WASH	No	USGS QU	SNOWBIRD	
S	11	156		ND	6.5	569893	3962665	POLACCA WASH	No	USGS QU	UNNAMED SPRING	
S	11	157	06K-09S	ND	6.5	572525	3963342	POLACCA WASH	No	1963	COLLECT	06K-09S
S	11	158	CHILI SPRING	ND	6.5	573286	3962529	POLACCA WASH	No	1963	PIPED TC	06K-05S
S	11	159	06K-01S	ND	6.5	574143	3962438	POLACCA WASH	No	1963	COLLECT	06K-01S
S	11	160		ND	6.5	575038	3962861	POLACCA WASH	No	1991 AERIAL		
S	11	161	06K-02S	ND	6.5	575274	3963157	POLACCA WASH	No	1963	COLLECT	06K-02S
S	11	162	06K-03S	ND	6.5	575376	3963215	POLACCA WASH	No	1963	COLLECT	06K-03S
S	11	164	06K-14S	ND	6.5	575788	3963423	POLACCA WASH	No	1963	UNDEVEL	06K-14S
S	11	165	06K-13S	ND	6.5	575898	3963513	POLACCA WASH	No	1963	UNDEVEL	06K-13S

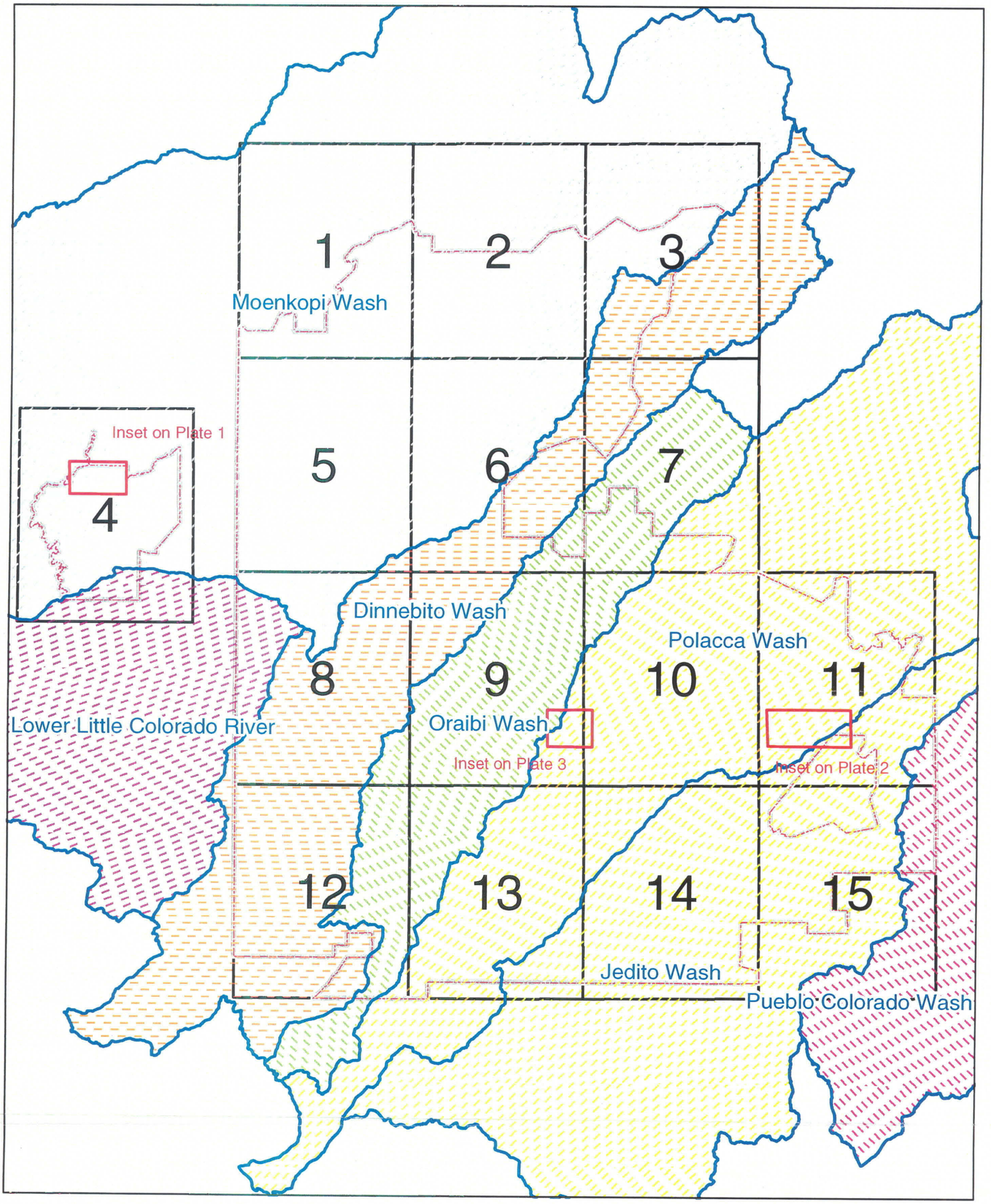
Table 3.
Livestock Springs

TYPE	PLATE NO. /1	ID /2	NAME	YIELD (GPM) /3	CLAIM (ACRE-FEET)	UTM COORDINATES/4 X	UTM COORDINATES/4 Y	DRAINAGE	MIArea	INFO	COMMENTS	NAME1
S	11	166	06K-07S	ND	6.5	577000	3964541	POLACCA WASH	No	1963	50 GPM/	06K-07S
S	11	167		ND	6.5	574108	3966159	POLACCA WASH	No	USGS	ON QUAD "WORK MAP"	
S	11	168	06K-308S	ND	6.5	574953	3967121	POLACCA WASH	No	1963	EARTH R	06K-308S
S	11	169	BYRON ADAMS SP	ND	6.5	577076	3968156	POLACCA WASH	No	WIL	THESE ARE LIKELY THE SAME SPRING	
S	11	170	06A-21A	ND	6.5	576519	3968917	POLACCA WASH	No	1963		
S	11	171	06-24	ND	6.5	570685	3967456	POLACCA WASH	No	1963	UNDEVELOPED/0.2 GPM	
S	11	255	Keams Cyn Spring	ND	6.5	575206	3963310	POLACCA WASH	No			Keams Cyn Spring
S	11	311	ECHO SPRING	ND	6.5	575792	3972672	POLACCA WASH	No		Quad, et.	ECHO SPRING
S	11	312		ND	6.5	570499	3967544	POLACCA WASH	No		From Tribe/DLG	
S	11	313		ND	6.5	570596	3964840	POLACCA WASH	No		T.J. Ferguson	
S	11	314		ND	6.5	571908	3963617	POLACCA WASH	No		T.J. Ferguson	
S	11	315	CORNER SPRING	ND	6.5	568501	3960533	POLACCA WASH	No		T.J. Fergu	CORNER SPRING
S	11	338		ND	6.5	575722	3974996	POLACCA WASH	No	Tribe		
S	13	189	COYOTE SP	ND	6.5	539495	3945376	POLACCA WASH	No	1963-QU	CHEM AV	06M-24
S	13	190		ND	6.5	541056	3946627	POLACCA WASH	No	QUAD		
S	13	191	LITTLE BURRO SPRING	ND	6.5	538897	3947985	POLACCA WASH	No	QUAD/19	NEW WEL	06M-27A
S	13	249	6-2B-4-B	ND	6.5	530051	3944488	POLACCA WASH	No			6-2B-4-B
S	13	256	Rock Ledge Spring	ND	6.5	540350	3947209	POLACCA WASH	No			Rock Ledge Spring
		Subtotal Polacca Wash 1882 Area			727.9							
		Subtotal Polacca Wash 1934 Area			None							
Pueblo Colorado												
S	15	332	COW SPRING	ND	6.5	589485	3950372	PUEBLO COLORADO WASH	No	Tribe		COW SPRING
		Subtotal Polacca Wash 1882 Area			6.5							
		Subtotal Polacca Wash 1934 Area			None							
Total For All Drainages in 1882 Area				1887.6	A/F							
Total For All Drainages in 1934 Area				318.5	A/F							

Notes:
1/ The plates documenting the individual springs are presented in Appendix 3.
2/ Springs may be used for a variety purposes.
3/ For springs without documented yields, use a default vaule of 4 gpm which is representative for this class of facilities.
4/ The X and Y values are the coordinates for the location of the spring in UTM Zone 12 North American Datum 1927.

APPENDIX 3

Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage
- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Map Insets

0 10 20 30 Miles
(Nominal Scale 1:500,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Index Sheet

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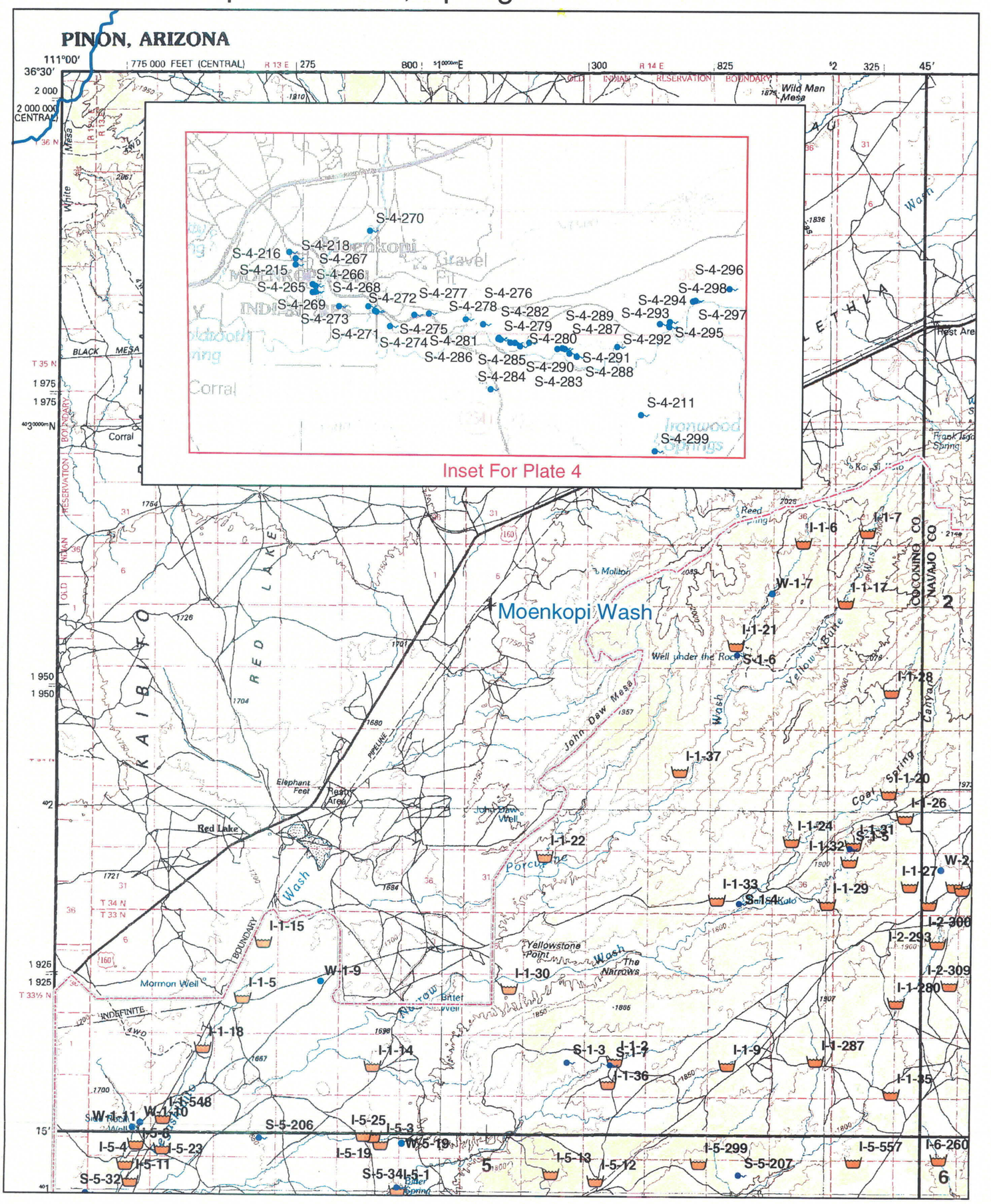
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 1

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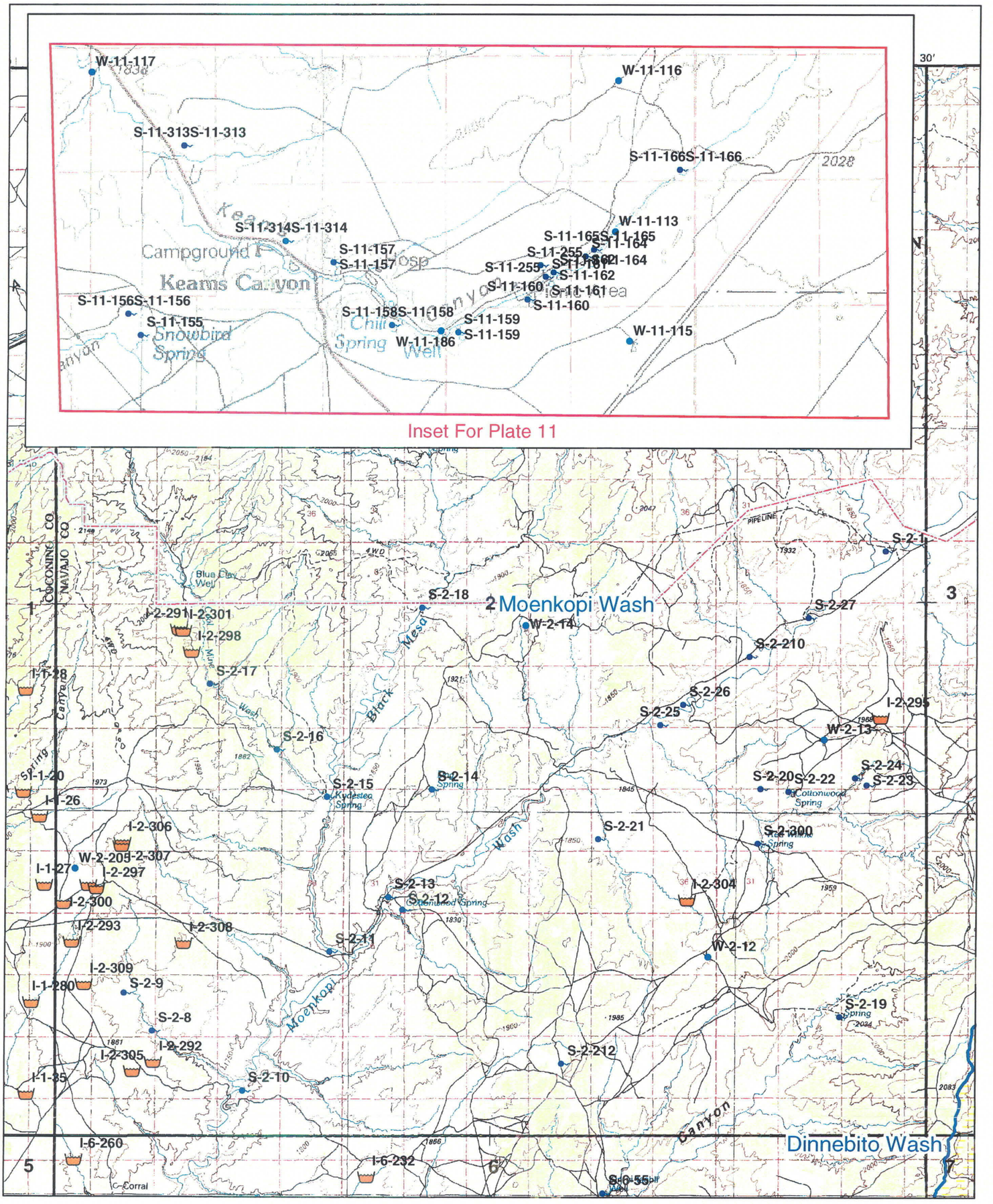
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 2

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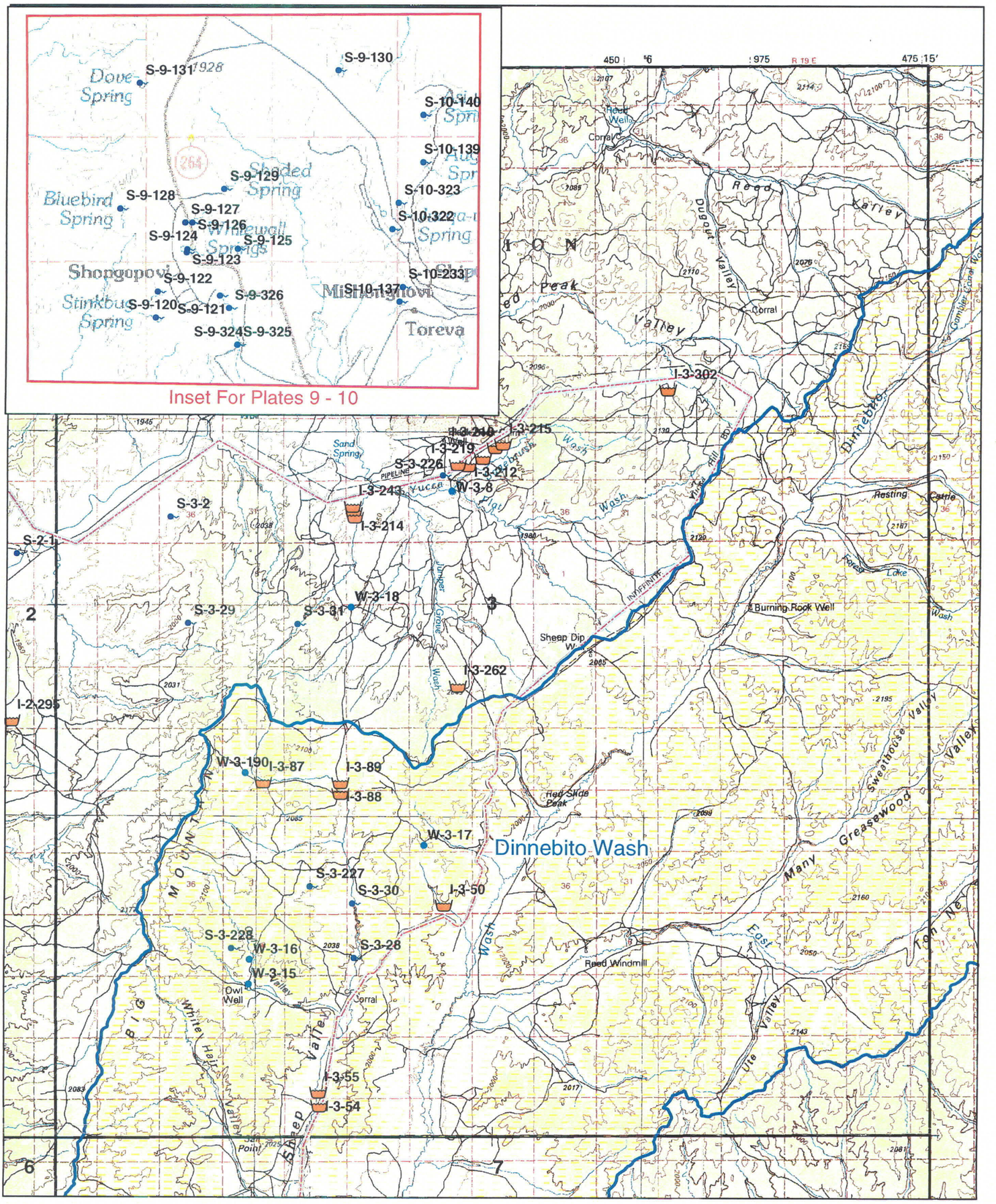
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

Miles
0 1 2 3
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 3

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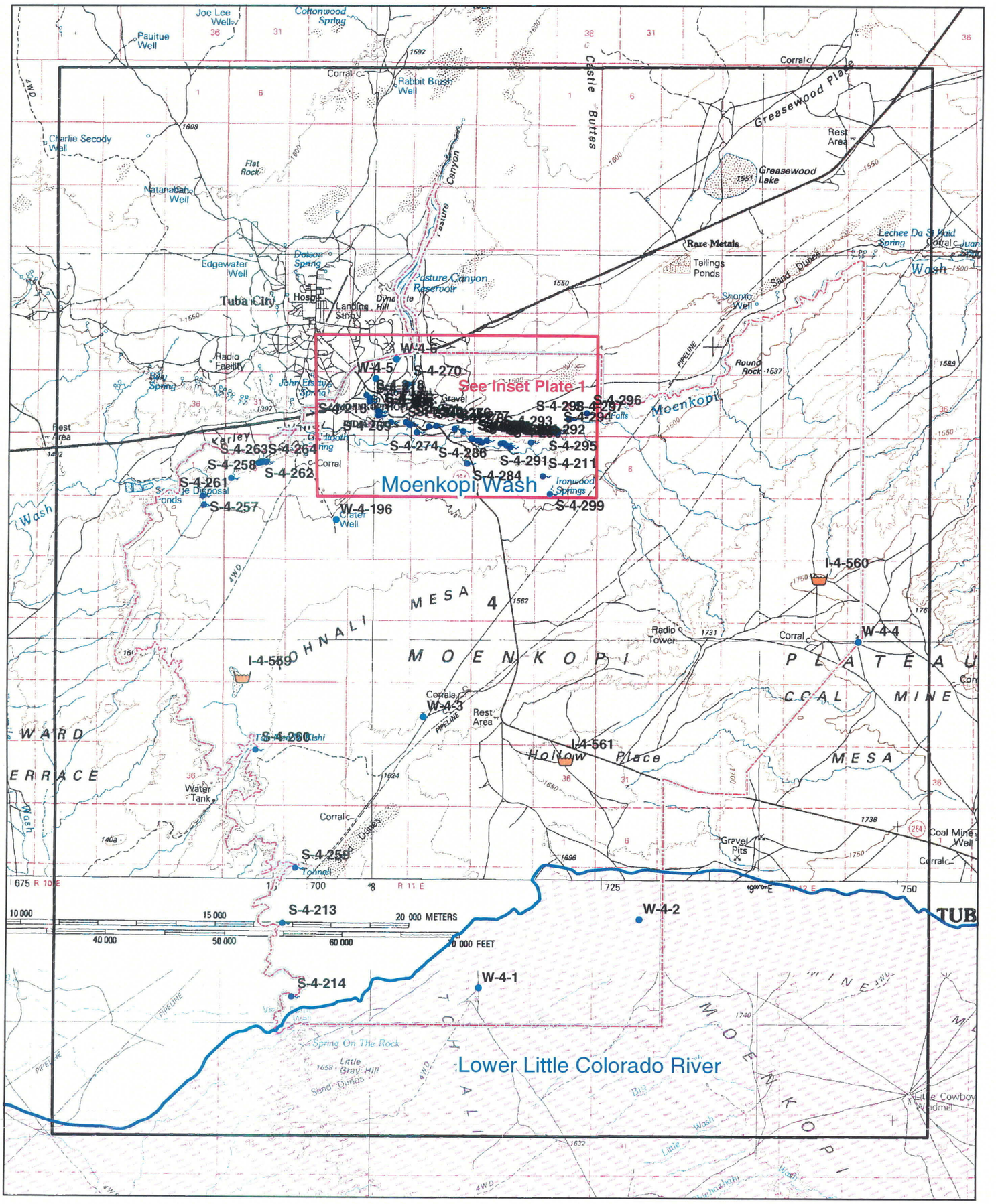
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 4

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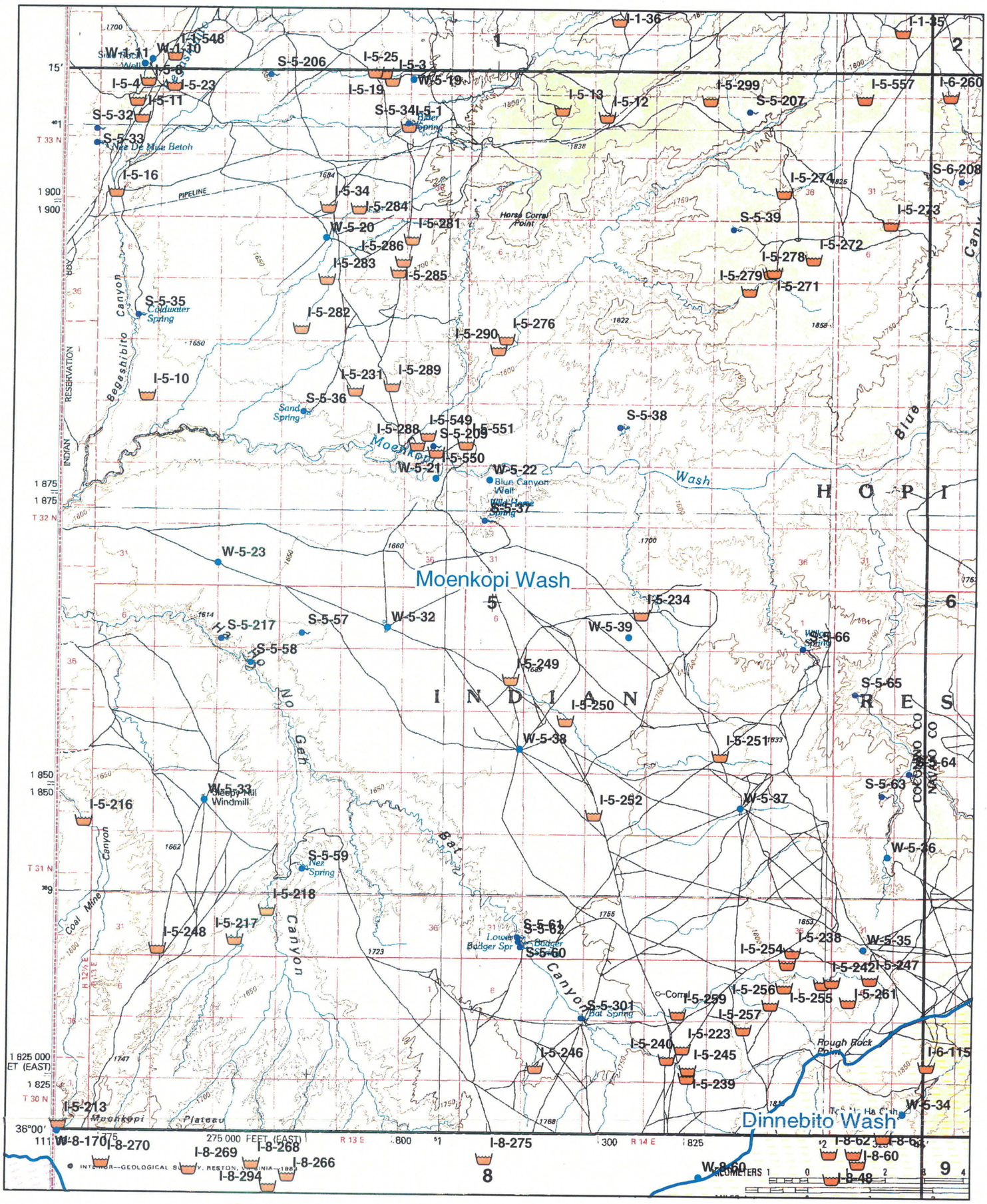
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 5

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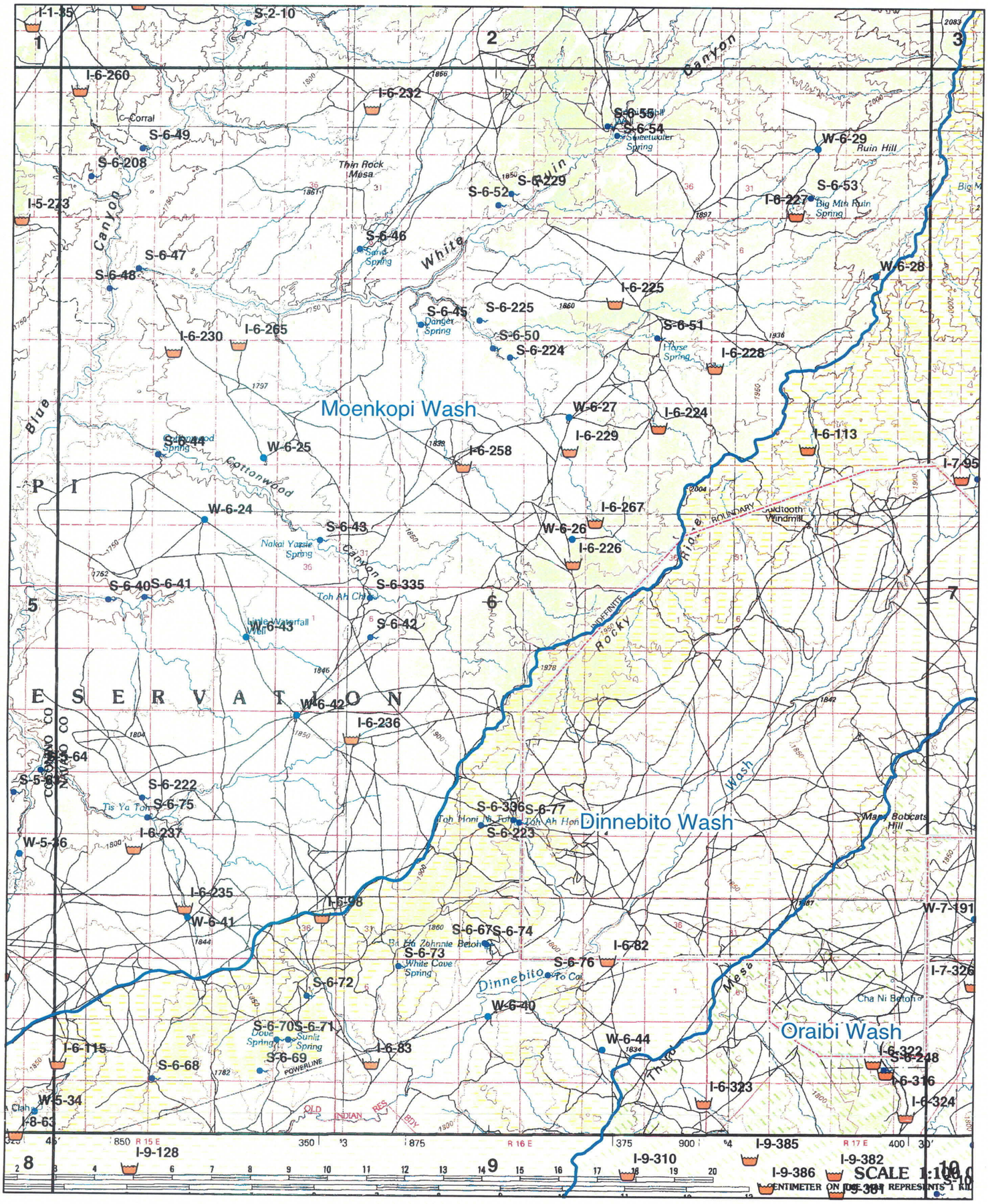
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 6

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Hopi Indian Reservation
Impoundments, Springs and Livestock Wells

Legend

Drainage
- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

Miles
0 1 2 3
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 7

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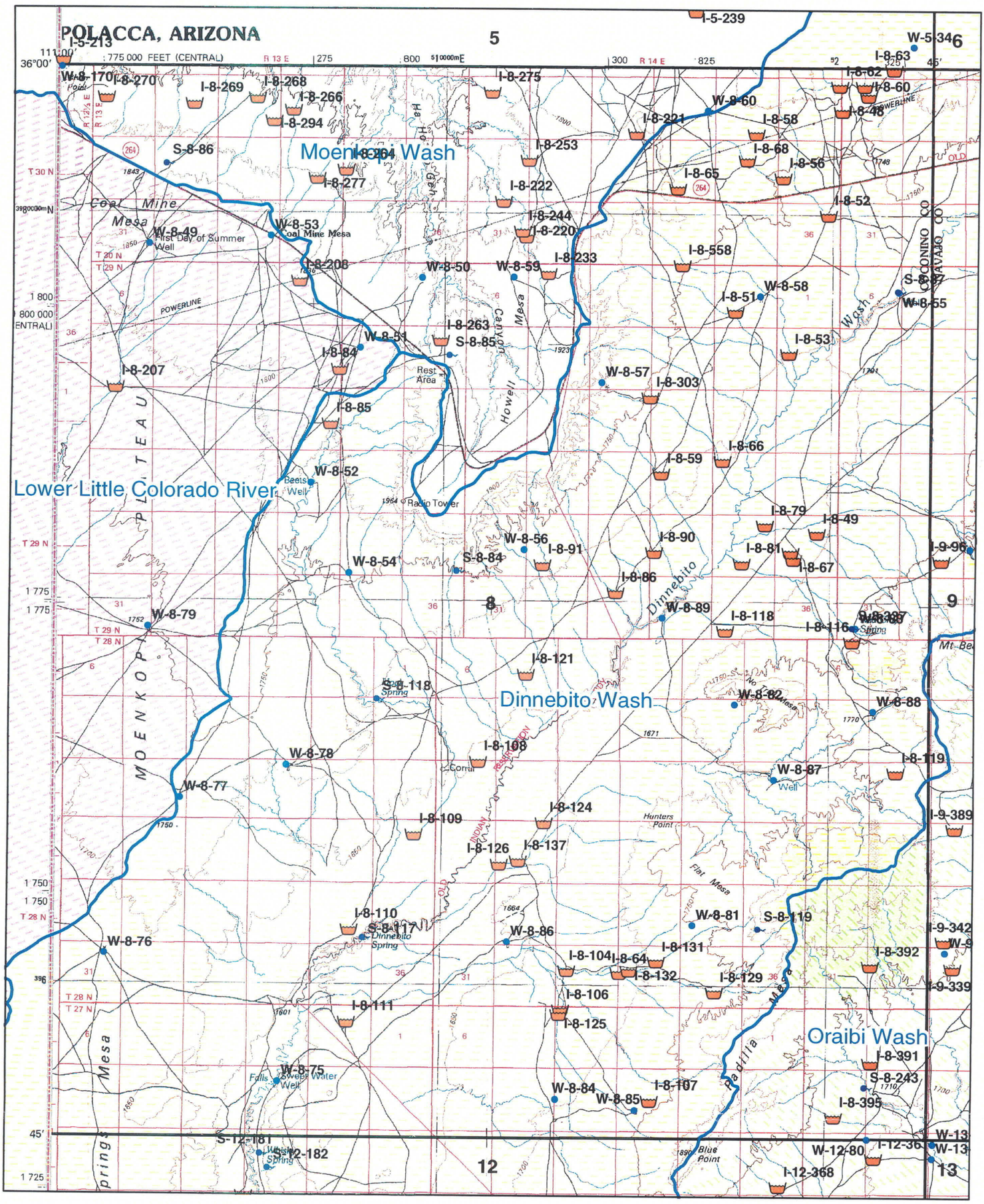
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 8

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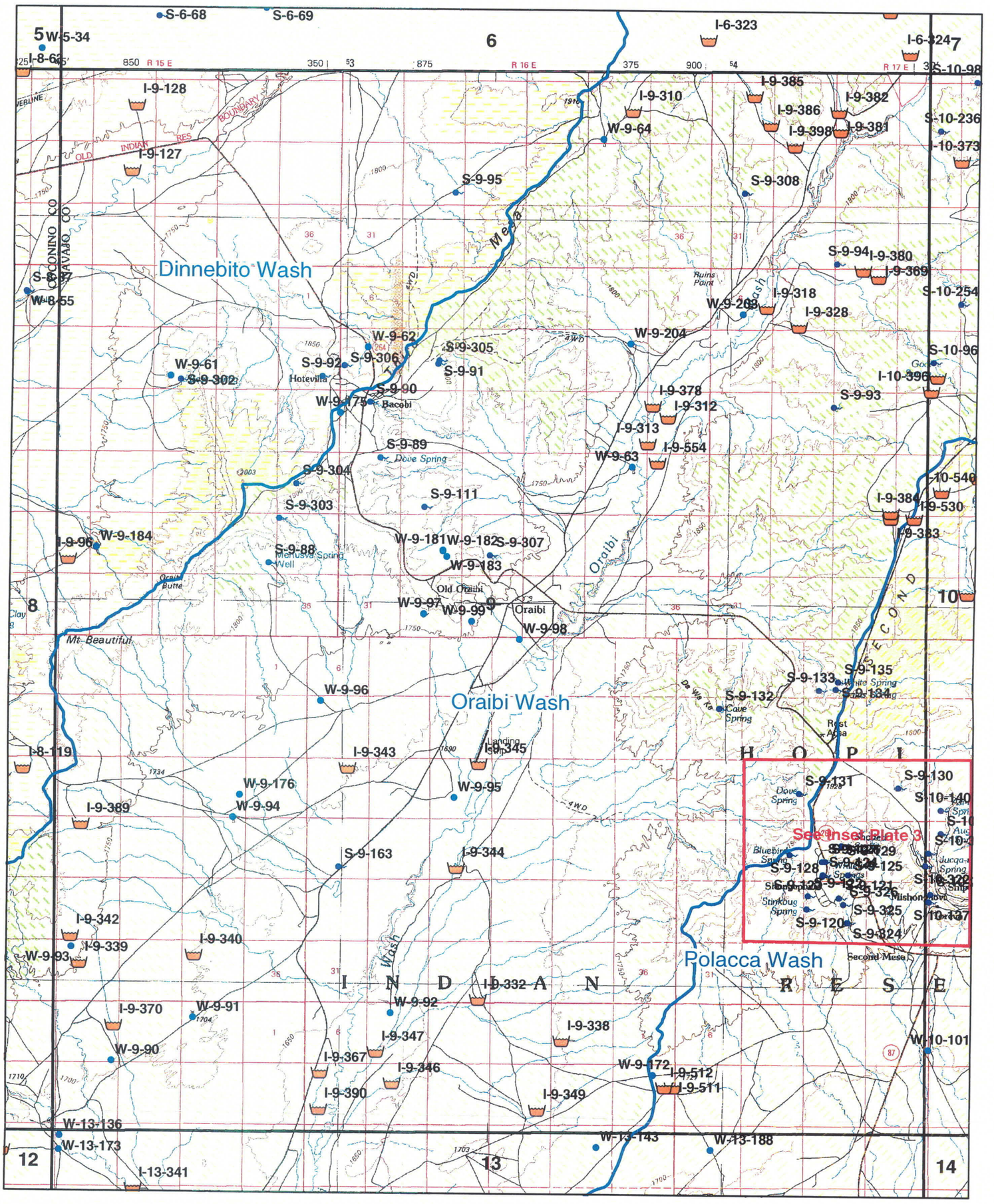
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 9

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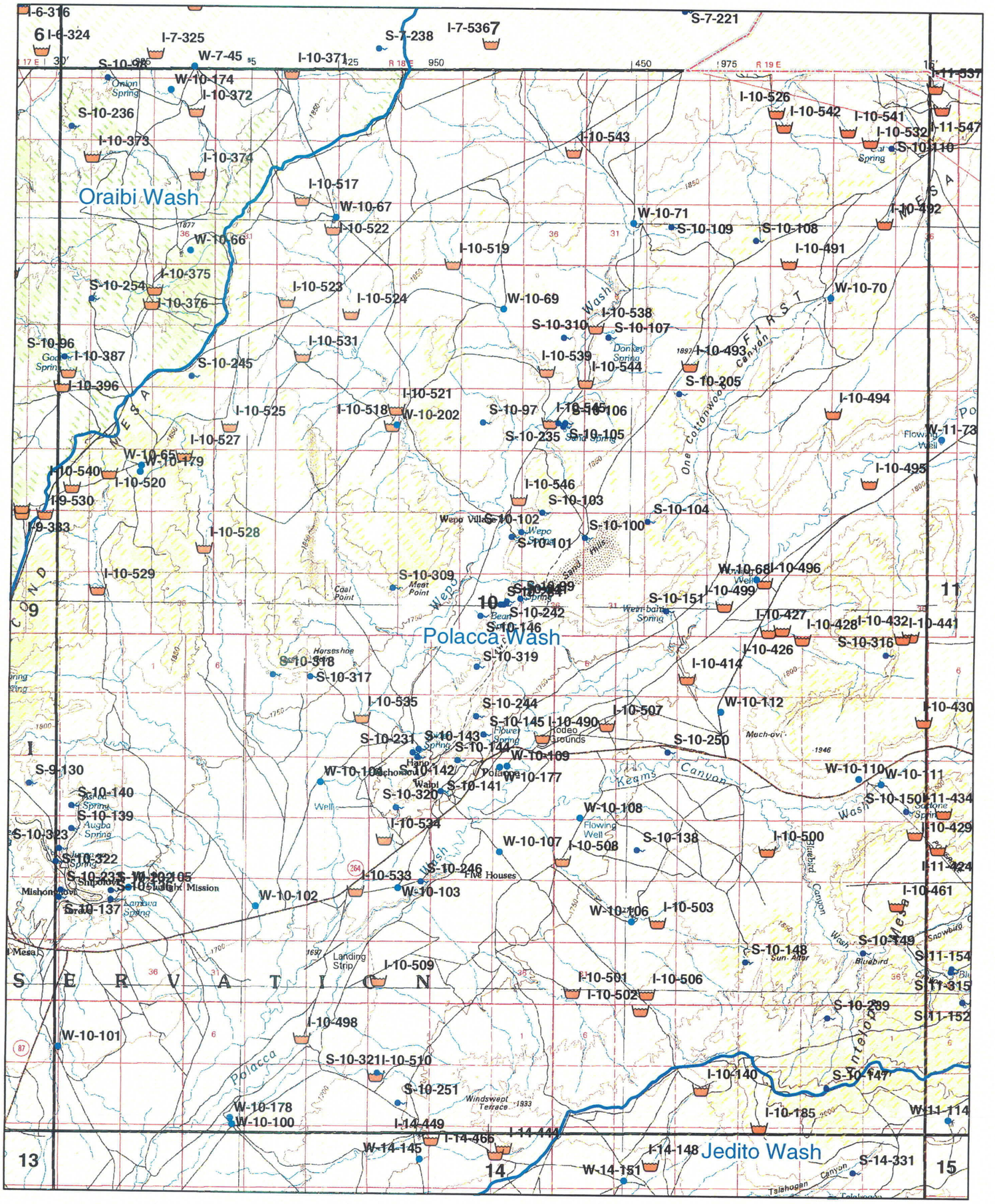
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

Miles
0 1 2 3
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 10

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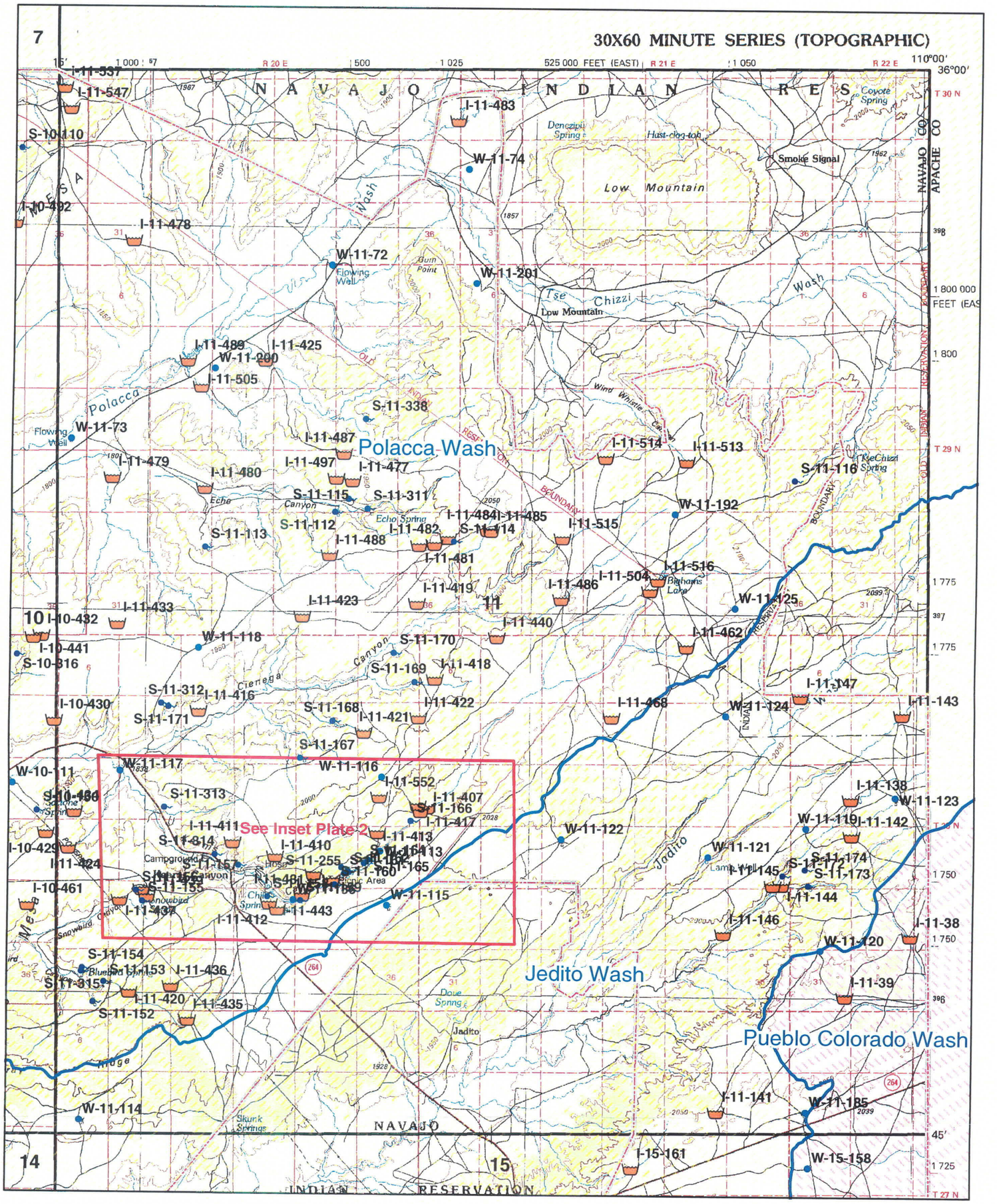
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Hopi Tribe
Livestock Claims
Appendix D

Plate No. 11

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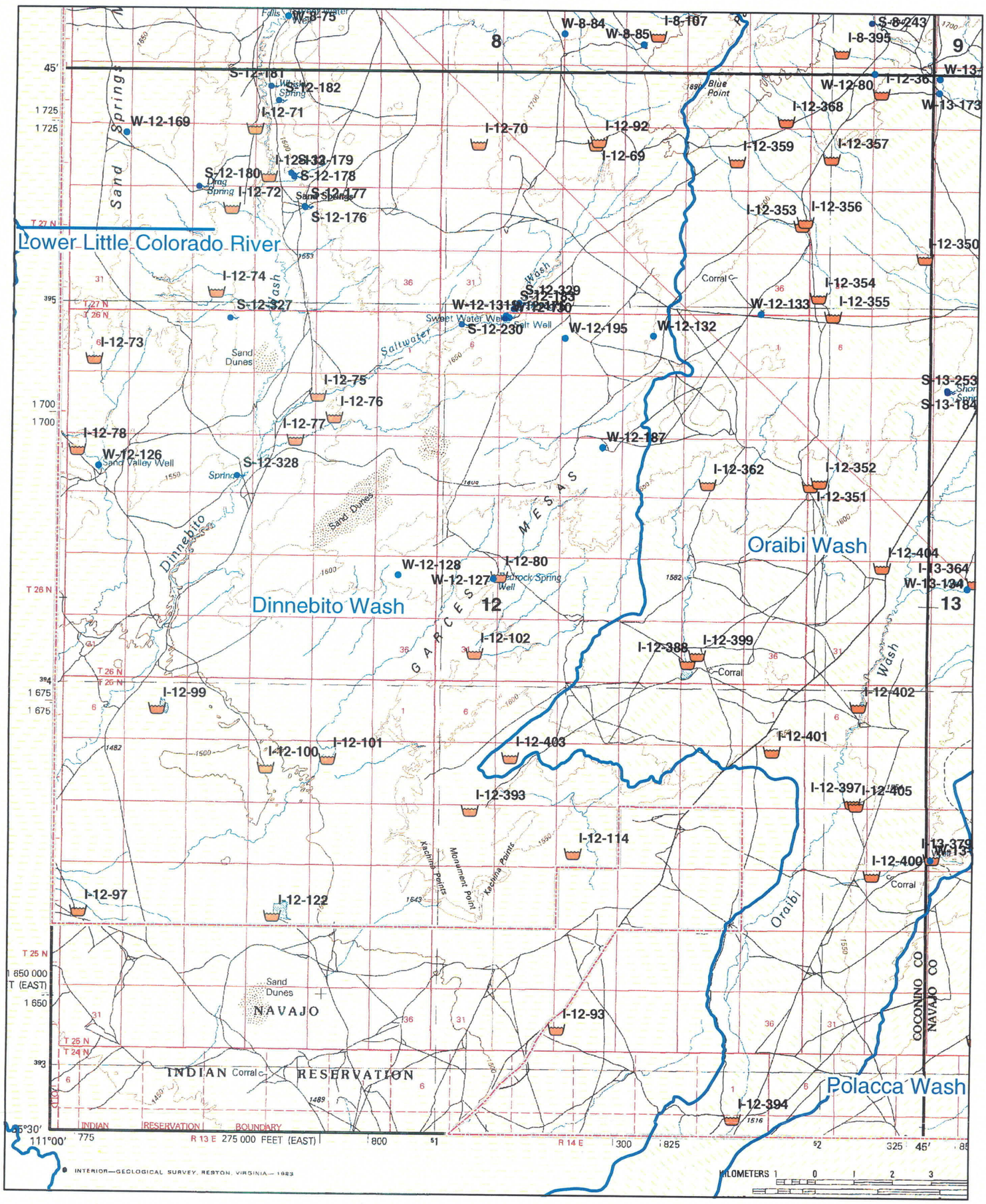
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 12

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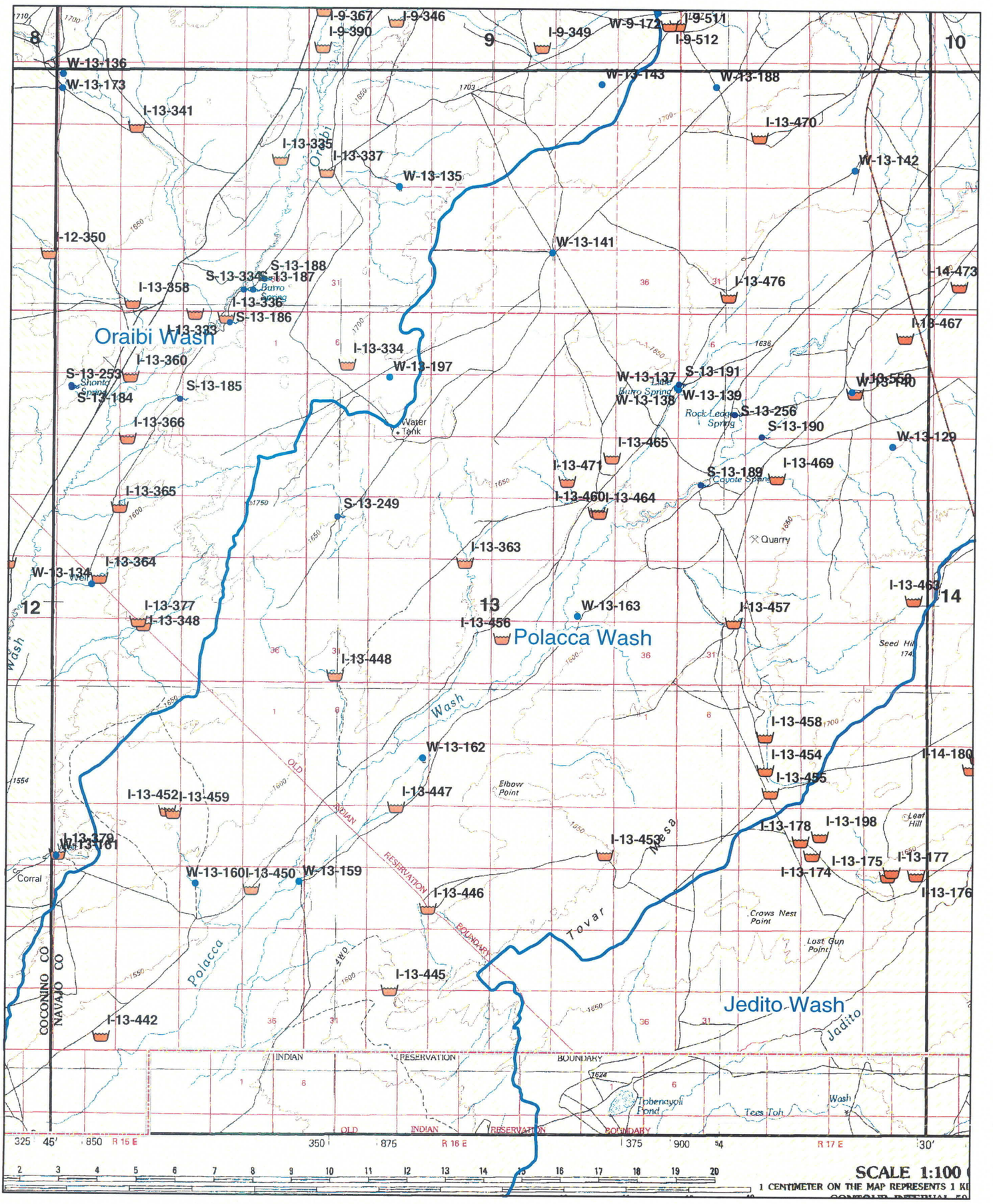
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 13

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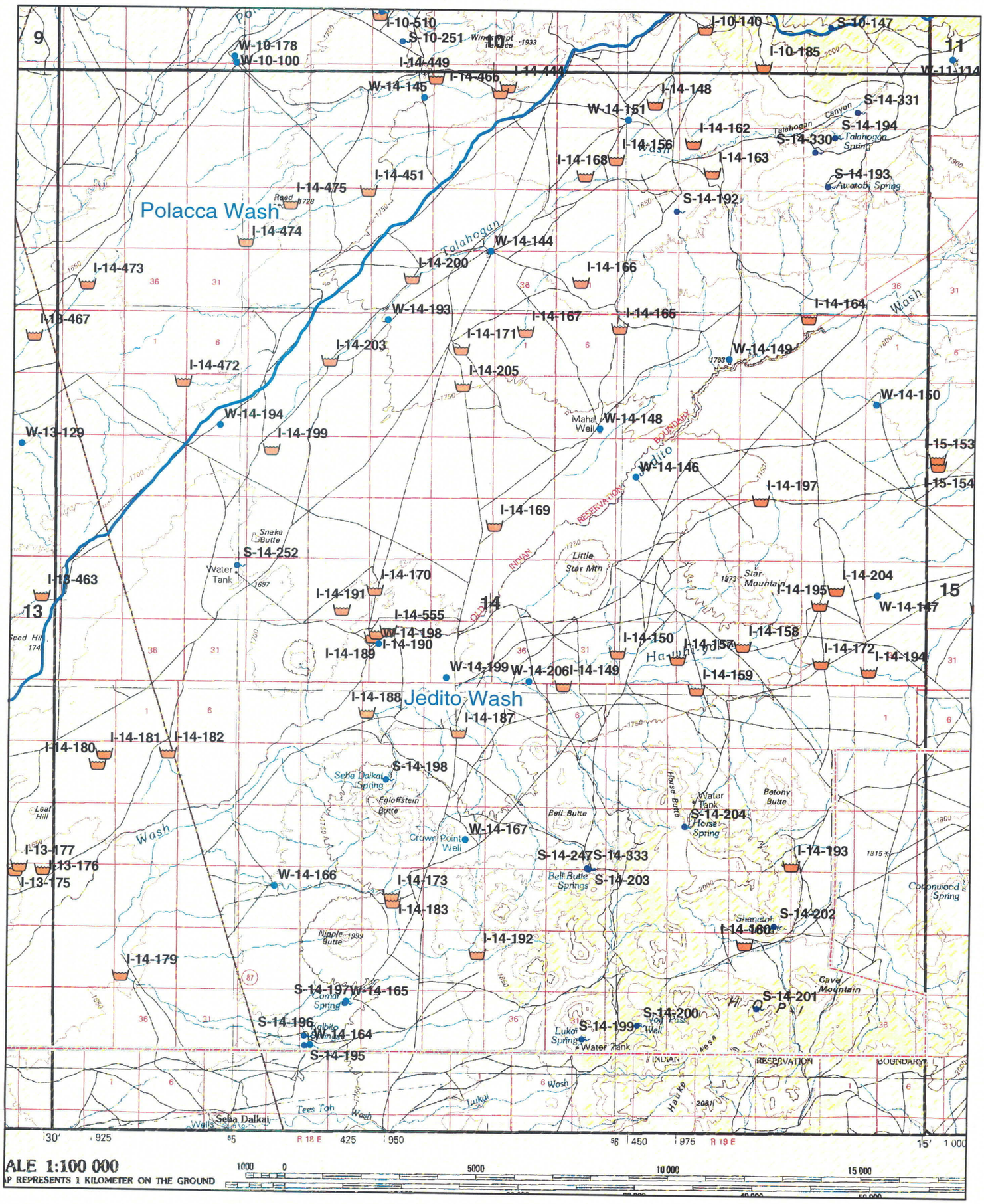
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



Legend

Drainage

- Dinnebito Wash
- Jedito Wash
- Lower Little Colorado River
- Moenkopi Wash
- Oraibi Wash
- Polacca Wash
- Pueblo Colorado Wash

- Hopi Indian Reservation
- Plate *(With Plate No. Shown)*
- Impoundments
- Springs
- Livestock Wells

Feature Label Key (Example W-4-141)
I, S or W indicates Type of feature
First number (1 - 15) indicates Plate No.
Last number (1 - 561) indicates Feature ID

0 1 2 3 Miles
(Nominal Scale 1:100,000 on 11" by 17" paper)

N

Hopi Tribe
Livestock Claims
Appendix D

Plate No. 14

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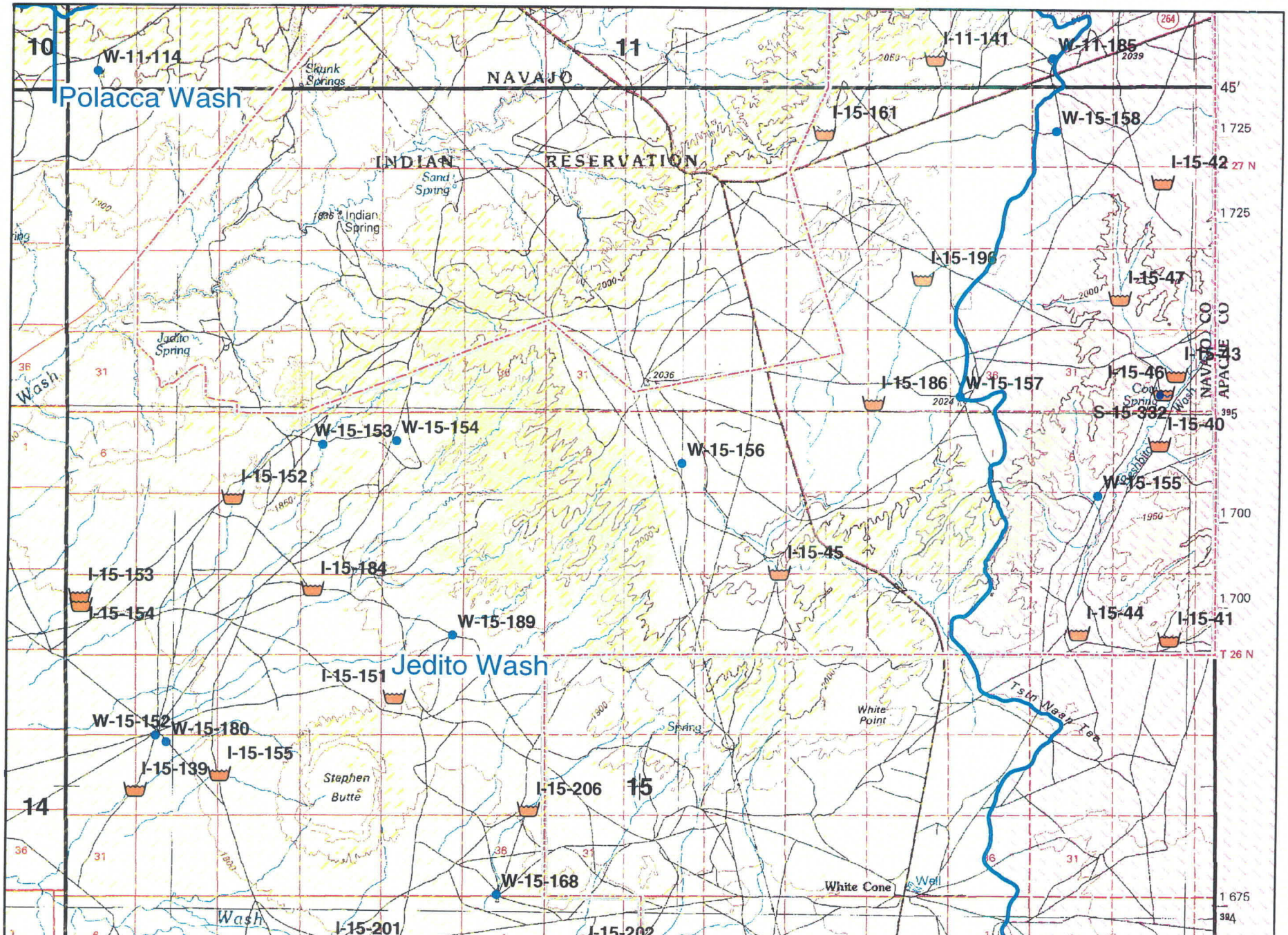
Hopi Indian Reservation
Impoundments, Springs and Livestock Wells



APPENDIX 4

EXPLANATION OF HOPI RANCH WATER RIGHT FILES

Each of the Hopi Ranch water right tables and abstracts have their own file or combination of files. For three of the ranches, each ranch has a combination of files whose printout was manually combined in the 2000 report. This was done because, at the time , there were some difficulties in getting the correct footer on all the sheets in an Excel file.

The following table lists the various files for the ranches. For each of the three ranches with a combination of files, there is a basic file(s) and a file of corrections. The printout of the correction file sheets were manually inserted and replaced some of the sheets of the basic file. These corrected sheets included the summary sheets and a few abstract sheets. On the first sheet of each correction file is a list and explanation of the sheets with corrections whose printout was manually inserted and replaced sheets in the original basic files.

Ranch	Path\Basic filename (& dates of pages)	Path/Corrections filename (& dates of pages)
26 Bar	m036410\dale\26babs.xls(8/26/98,9/8/98) m036416\26babsf (1/14/2000)	m036422\ranches\26babsr.xls (6/20,21/2000)
Aja	m036410\dale\ajaabs.xls(8/25/98)	m036422\ranches\ajaabsr.xls (6/20/2000)
Clear Cr.	m036410\dale\clrabs.xls(10/19,20/98)	m036422\ranches\clrabsr.xls (6/20/2000)
Hart	m036410\dale\hartabs.xls(9/16,17/98)	None
Drye	m036410\dale\dryeabs.xls(8/26/98)	None

Notes

1. For 26 Bar Ranch, there are 2 main files –one for the main ranch and one for the Forest Service area
2. Some of the footers in the correction files have "+others" after the filename. This is not part of the filename but a note the ranch contains a combination of files.
3. The cover explanation sheet of the correction files are dated 6/21/2000 in my documentation notebook.

TABLE 1
SUMMARY OF WATER USES ON HOPI RANCHES

Ranch	Irrigation Use		Non-Irrigation Uses		Total	
	Annual AF	Storage AF	Annual AF	Storage AF	Annual AF	Storage AF
26 Bar Ranch	507.00	184.00	302.99	67.33	809.99	251.33
Aja Ranch			654.74	636.27	654.74	636.27
Clear Creek Ranch			604.90	912.16	604.90	912.16
Hart Ranch			275.17	235.99	275.17	235.99
Drye Ranch			21.33	53.02	21.33	53.02
Total	507.00	184.00	1859.13	1904.77	2366.13	2088.77

Notes:

1. The above table includes water uses on deeded ranch land and associated leased State land and Forest Service permit land used by the ranches.
2. Irrigation use on the 26 Bar Ranch is for 193.5 acres. The 507 AF annual use includes 217 AF supplemental supply from groundwater.
3. Non-irrigation uses include domestic, stockpond, stockwater, recreation, fish, and/or wildlife.
4. The above water use amounts were based on an analysis of associated water right filings and actual use. In cases where no filings or data exist for a water use, amounts were estimated.
5. The Hopi Tribe is in the process of having ranch water right filings transferred to their name. In cases where there are no ranch adjudication filings for a water use, the Tribe intends on submitting filings for these uses.

This file only contains the following for the 26 Bar Ranch abstracts:

- revised summary sheets combining main ranch and Forest Service abstracts
- revised abstracts only:
  26-30-D Added remark deleting abstract
  26-35-S Deleted remark referencing irrigation abstract 26-30-D

Hard copies of the above sheets were manually inserted to replace the corresponding unrevised sheets which are described below.

The original unrevised abstract sheets are found in the following files:

Main ranch	h:\data\03\m036410\dale\26babs.xls
Forest Service Area:	h:\data\03\m036416\26babsf.xls

For future changes, the original unrevised file needs to be updated with the above changes before future changes are done.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-001- D	39-03-87460			N. Fork Well	10.00	
26-002- DS	39-03-87465		39-03-85674	N.Fork HQ Well	2.18	
26-003- D	39-03-87466			Cottonwood Spring	0.25	
26-004- D	39-03-87466			Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466			Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467			Trap Spring	0.30	
26-007- D	39-03-87467			Trap Tank	0.20	1.37
26-008- D	39-03-87468			Horse Spring	0.30	
26-009- D	39-03-87468			Horse Tank	0.20	2.54
26-010- S	39-03-89058		39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059		39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060		39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061			Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062			Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063		39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064		39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065		39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066		39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067		39-03-85715	River Well	20.00	0.08
26-020- D	39-03-89068			Cinder Well	20.00	0.15
26-021- D	39-03-89069			Coulter Well	20.00	0.09
26-022- D	39-03-89070			Whiting Well	20.00	0.15
See 26-026-D	39-03-89071					
26-023- D	39-03-89072			26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073			Lower Corral Well	5.40	
See 26-026-D	39-03-89074					
See 26-026-D	39-03-89075					
26-025- D	39-03-89076			Becker Well	20.00	0.002
26-026- D	39-03-89289			Private irr./stk from LCR	166.00	
26-027- D	39-03-89112			RVWUA water use	124.00	184.00
26-028- D	39-03-91909			Calving Pasture Well	59.00	
26-029- D	39-03-91910			10" Rim Pasture Well	158.00	
26-030- D	39-03-91911			Abstract deleted		
26-031- D	39-03-91913			John Wayne Fishing Pond	3.00	3.00
26-032- S			39-03-85532	Lost Tank	0.95	0.95
26-033- S			39-03-85668	Big Tank	10.40	10.40
26-034- S			39-03-85670	Corner Tank	3.70	3.70
26-035- S			39-03-85672	Well Tank	0.50	0.50
26-036- S			39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S			39-03-85675	Cinder Tank	1.70	1.70
26-038- S			39-03-85676	East Side Tank	1.10	1.10
26-039- S			39-03-85678	Long Tank	2.90	2.90
26-040- S			39-03-85685	East House Pasture Well	0.18	
26-041- S			39-03-85707	Instream use, LCR	0.20	
26-042- S			39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S			39-03-85710	Tank #10	0.20	0.20
26-044- S			39-03-85712	Instream use, LCR	0.65	
26-045- S			39-03-85714	Instream use, LCR	1.40	
26-046- D				Unnamed Well	10.00	
26-047- D				Rabbit Well	10.00	
26-048- D				Well	10.00	
26-049- U		39-03-89622		Butch Tank	0.09	0.14
26-050- U		39-03-89623		Road Tank	0.10	0.13
26-051- U		39-03-89624		Ant Tank	0.10	0.71
26-052- U		39-03-89625		Pool Corral Tank	0.10	0.36
26-053- U		39-03-89631		Pot Hole Tank	0.10	0.04

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-054- U		39-03-89632		Pasture Tank	0.10	0.09
26-055- U		39-03-89633		Lake Tank	0.10	1.07
26-056- U		39-03-89634		Sidehill Tank	0.10	0.08
26-057- U		39-03-89635		Pool Corral Lake Tank	0.10	0.12
26-058- U		39-03-89636		Seven One (TI) Tank	0.093	0.09
26-059- U		39-03-89637		Draw Tank	0.09	0.36
26-060- U		39-03-89638		Mel Tank	0.09	0.17
26-061- U		39-03-89639		CB Tank One (Fake Tank)	0.09	0.21
26-062- U		39-03-89640		BC Tank	0.09	0.21
26-063- U		39-03-89641		Bog Tank	0.146	0.111
26-064- U		39-03-89642		Hill Tank	0.14	0.26
26-065- U		39-03-89643		Rudd Knoll Pit Tank	0.146	0.13
26-066- U		39-03-89646		Bluff Tank	0.14	0.21
26-067- U		39-03-89647		Rudd Knoll Pit Tank #3	0.14	0.10
26-068- U		39-03-89648		Tank #4	0.14	0.31
26-069- U		39-03-89649		Fence Tank	0.10	0.19
26-070- U		39-03-89650		Riley Tank	0.09	0.21
26-071- U		39-03-89651		S. Fork Spring Tank	0.10	0.25
26-072- U		39-03-89652		South Fork Tank	0.10	0.06
26-073- U		39-03-89653		Mike Tank	0.10	0.22
26-074- U		39-03-89654		Drumstick Tank	0.10	0.24
26-075- U		39-03-89655		South Hog Wallow Tank	0.10	0.07
26-076- U		39-03-89656		North Hog Wallow Tank	0.10	0.27
26-077- U		39-03-89666		Steve Tank	0.10	0.19
26-078- U		39-03-89667		Riley Canyon Tank	0.10	0.11
26-079- U		39-03-89668		Red Tank	0.10	0.22
26-080- U		39-03-89669		Little Tank	0.10	0.22
26-081- U		39-03-89670		Dozer Stock Tank	0.10	0.06
26-082- U		39-03-89671		Hogshead Tank	0.10	0.25
26-083- U		39-03-89672		Alpha Tank	0.10	0.14
26-084- U		39-03-89673		Rudd Knoll Pit Tank #4	0.14	0.09
26-085- U		39-03-89680		Stock Tank #4	0.14	0.44
26-086- U		39-03-89681		Stock Tank #3	0.14	0.21
26-087- U		39-03-89682		Division Tank	0.09	0.31
26-088- U		39-03-89683		C.B. Tank One	0.09	0.31
26-089- U		39-03-89684		Stock Tank #2	0.14	0.12
26-090- U		39-03-89685		Chi Tank	0.10	0.17
26-091- U		39-03-89686		Beta Tank	0.10	0.10
26-092- U		39-03-89687		Winch Tank	0.10	0.26
26-093- U		39-03-89690		Spec Tank	0.09	0.06
26-094- U		39-03-89691		C.B. Tank #2	0.09	0.32
26-095- U		39-03-89698		C.B. Tank #3	0.09	0.53
26-096- U		39-03-89699		Point of the Mtn. Tank	0.09	0.53
26-097- U		39-03-89701		Wad Tank	0.09	0.06
26-098- U		39-03-89707		Phoneline Tank	0.10	0.19
26-099- U		39-03-89708		Sawmill Tank	0.09	0.12
26-100- U		39-03-89715		Bigelow Tank	0.10	0.09
26-101- U		39-03-90447		Grapevine Spring	0.093	
26-102- U		39-03-90449		Sawmill Spring	0.093	
26-103- U		39-03-90450		Basin Spring	0.144	
26-104- U		39-03-90465		Instream use, S. Fk. LCR	0.100	
26-105- U		39-03-90466		Loon Sink	0.000	
26-106- U		39-03-90467		Canvasback Sink	0.000	
26-107- U		39-03-90468		Rim Spring	0.093	
26-108- U		39-03-90469		Point of the Mtn. Spring	0.093	
26-109- U		39-03-90474		Heron Marsh	0.000	

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-110- U		39-03-90482		Instream use, Water Canyon	0.146	
26-111- U		39-03-90483		Instream use, S. Fk. LCR	0.100	
26-112- U		39-03-90484		Instream use, S. Fk. LCR	0.100	
26-113- U		39-03-90499		Clay Spring	0.100	
26-114- U		39-03-90500		P.C. Spring	0.100	
26-115- U		39-03-90501		Hay Spring	0.093	
26-116- U		39-03-90502		Abandoned Spring	0.146	
26-117- U		39-03-90503		Head Spring	0.093	
26-118- U		39-03-90504		Instream use, Water Canyon	0.146	
26-119- U		39-03-90505		Instream use, unnamed wash	0.146	
26-120- U		39-03-90513		Baca Spring	0.146	
26-121- U		39-03-90514		Duker Spring	0.146	
26-122- U		39-03-90515		Wahl Knoll Spring	0.090	
26-123- U		39-03-90516		Instream use, S. Fk. LCR	0.100	
26-124- U		39-03-90518		Hay Lake (Waterfowl)	0.000	
26-125- U		39-03-90526		Hog Wallow Lake (Waterfowl)	0.000	
26-126- U		39-03-90527		Wing Marsh	0.000	
26-127- U		39-03-90528		(Head of) South Fk. Spring	0.100	
26-128- U		39-03-90529		(Bill) Riley Spring	0.093	
26-129- U		39-03-90530		Cabin Spring	0.146	
26-130- U		39-03-90531		Rudd Knoll Spring	0.146	
26-131- U		39-03-90532		Lost Spring	0.146	
26-132- U		39-03-90533		Miller Spring	0.146	
26-133- U		39-03-90538		Pool Corral Lake (Waterfowl)	0.000	
26-134- U		39-03-90539		Reservoir Spring	0.100	
26-135- U		39-03-90541		Instream use, E. Fk. LCR	0.100	
26-136- U		39-03-90554		Pool Corral Spring	0.100	
26-137- U				Instream use, Joe Baca Draw	0.100	
26-138- U				Instream use, Grapevine Cr.	0.600	
26-139- U				Unnamed tank	0.03	0.03
26-140- U				Unnamed tank	0.06	0.06
26-141- U				Unnamed tank	1.40	1.40
26-142- U		39-07-08948		Deep Pit Tank	0.093	0.48
26-143- U				Unnamed tank	0.60	0.60
26-144- U				Unnamed tank	0.09	0.09
26-145- U				Unnamed tank	0.20	0.20
26-146- U				Unnamed tank	0.03	0.03
26-147- U				Unnamed tank	0.10	0.10
26-148- U				Mexican Hay Lake stockwater	0.12	
26-149- U				Hog Wallow Lake stockwater	0.12	
26-150- U				Slade Reservoir stockwater	0.12	
26-151- U				Water Canyon Res. stockwater	0.12	
26-152- U				Atcheson Reservoir stockwater	0.12	
26-153- U				Rudd Reservoir stockwater	0.12	
26-154- U				Little George Res. stockwater	0.12	
26-155- U				Russell Reservoir stockwater	0.12	
				Total all uses	809.993	251.333
				Total irrigation from surface water for 193.5 ac (26-026 & 027-D)	290.000	184.000
				Total supplemental irrigation from wells (26-028 & 029-D)	217.000	0.000
				Total all irrigation	507.000	184.000
				Total remaining uses	302.993	67.333

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

U=U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-030-D	Abstract deleted June,2000			
Applicable Adjudication Filings:	Filed by ranch:	39-03-91911			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614138			
Type of Uses:	Irrigation				
Source of Supply:	Springs, ponds and groundwater (N.Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Springs and ponds:	SESW, SWSE		16	10N	28E
Springs and ponds:	NWNE		21	10N	28E
Well(Supplemental supply):	NWSWNE		21	10N	28E
Place of Use (if different from POD):	SWSE, SESW		16	10N	28E

Flow Rate:	70 GPM	------ CFS	
Annual Volume of Use:	------ Gal	40.00 AF	
Storage Volume or Reservoir Capacity:	------ Gal	------ AF	See comments
Irrigated Acres (if irrigation use):	10 Ac		
Name of Reservoir or Stockpond:	See comments		
Priority Date:	Prior to 1970		

Comments:
This abstract covers only the irrigation use portion of the use of the springs, ponds, and well.
The springs and ponds are also used for stockwater or stockpond use covered by abstracts 26-003-D, 26-005-D, 26-006-D, 26-007-D, 26-008-D, 26-009-D
The well (located on State lease land) is also used to supply water to Well Tank covered by abstract 26-035-S

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-035-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85672			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025036 (Rejected Status)			
	Filed by SLD:	36-000834, 55-614138			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw and groundwater (N. Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Well Tank				
Priority Date:	Prior to 1884				

Comments:

Rejected filing 38-025036 covers this stockpond

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
26-001- D	39-03-87460		N. Fork Well	10.00	
26-002- DS	39-03-87465	39-03-85674	N.Fork HQ Well	2.18	
26-003- D	39-03-87466		Cottonwood Spring	0.25	
26-004- D	39-03-87466		Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466		Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467		Trap Spring	0.30	
26-007- D	39-03-87467		Trap Tank	0.20	1.37
26-008- D	39-03-87468		Horse Spring	0.30	
26-009- D	39-03-87468		Horse Tank	0.20	2.54
26-010- S	39-03-89058	39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059	39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060	39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061		Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062		Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063	39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064	39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065	39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066	39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067	39-03-85715	River Well	20.00	0.08
26-020- D	39-03-89068		Cinder Well	20.00	0.15
26-021- D	39-03-89069		Coulter Well	20.00	0.09
26-022- D	39-03-89070		Whiting Well	20.00	0.15
See 26-026-D	39-03-89071				
26-023- D	39-03-89072		26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073		Lower Corral Well	5.40	
See 26-026-D	39-03-89074				
See 26-026-D	39-03-89075				
26-025- D	39-03-89076		Becker Well	20.00	0.002
26-026- D	39-03-89289		Private irr./stk from LCR	166.00	
26-027- D	39-03-89112		RVWUA water use	124.00	184.00
26-028- D	39-03-91909		Calving Pasture Well	59.00	
26-029- D	39-03-91910		10" Rim Pasture Well	158.00	
26-030- D	39-03-91911		Irrigation in north ranch	40.00	
26-031- D	39-03-91913		John Wayne Fishing Pond	3.00	3.00
26-032- S		39-03-85532	Lost Tank	0.95	0.95
26-033- S		39-03-85668	Big Tank	10.40	10.40
26-034- S		39-03-85670	Corner Tank	3.70	3.70
26-035- S		39-03-85672	Well Tank	0.50	0.50
26-036- S		39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S		39-03-85675	Cinder Tank	1.70	1.70
26-038- S		39-03-85676	East Side Tank	1.10	1.10
26-039- S		39-03-85678	Long Tank	2.90	2.90
26-040- S		39-03-85685	East House Pasture Well	0.18	
26-041- S		39-03-85707	Instream use, LCR	0.20	
26-042- S		39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S		39-03-85710	Tank #10	0.20	0.20
26-044- S		39-03-85712	Instream use, LCR	0.65	
26-045- S		39-03-85714	Instream use, LCR	1.40	
26-046- D			Unnamed Well	10.00	
26-047- D			Rabbit Well	10.00	
26-048- D			Well	10.00	
			Total	836.92	236.83

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
26-001- D	39-03-87460		N. Fork Well	10.00	
26-003- D	39-03-87466		Cottonwood Spring	0.25	
26-004- D	39-03-87466		Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466		Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467		Trap Spring	0.30	
26-007- D	39-03-87467		Trap Tank	0.20	1.37
26-008- D	39-03-87468		Horse Spring	0.30	
26-009- D	39-03-87468		Horse Tank	0.20	2.54
26-020- D	39-03-89068		Cinder Well	20.00	0.15
26-021- D	39-03-89069		Coulter Well	20.00	0.09
26-022- D	39-03-89070		Whiting Well	20.00	0.15
26-023- D	39-03-89072		26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073		Lower Corral Well	5.40	
26-025- D	39-03-89076		Becker Well	20.00	0.002
26-026- D	39-03-89289		Private irr./stk from LCR	166.00	
26-027- D	39-03-89112		RVWUA water use	124.00	184.00
26-028- D	39-03-91909		Calving Pasture Well	59.00	
26-029- D	39-03-91910		10" Rim Pasture Well	158.00	
26-030- D	39-03-91911		Irrigation in north ranch	40.00	
26-031- D	39-03-91913		John Wayne Fishing Pond	3.00	3.00
26-046- D			Unnamed Well	10.00	
26-047- D			Rabbit Well	10.00	
26-048- D			Well	10.00	
26-002- DS	39-03-87465	39-03-85674	N.Fork HQ Well	2.18	
26-010- S	39-03-89058	39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059	39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060	39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061		Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062		Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063	39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064	39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065	39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066	39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067	39-03-85715	River Well	20.00	0.08
26-032- S		39-03-85532	Lost Tank	0.95	0.95
26-033- S		39-03-85668	Big Tank	10.40	10.40
26-034- S		39-03-85670	Corner Tank	3.70	3.70
26-035- S		39-03-85672	Well Tank	0.50	0.50
26-036- S		39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S		39-03-85675	Cinder Tank	1.70	1.70
26-038- S		39-03-85676	East Side Tank	1.10	1.10
26-039- S		39-03-85678	Long Tank	2.90	2.90
26-040- S		39-03-85685	East House Pasture Well	0.18	
26-041- S		39-03-85707	Instream use, LCR	0.20	
26-042- S		39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S		39-03-85710	Tank #10	0.20	0.20
26-044- S		39-03-85712	Instream use, LCR	0.65	
26-045- S		39-03-85714	Instream use, LCR	1.40	
See 26-026-D	39-03-89071				
See 26-026-D	39-03-89074				
See 26-026-D	39-03-89075				
			Total	836.92	236.83

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

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2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH FOREST SERVICE PERMIT AREA
(SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-049- U		39-03-89622		Butch Tank	0.09	0.14
26-050- U		39-03-89623		Road Tank	0.10	0.13
26-051- U		39-03-89624		Ant Tank	0.10	0.71
26-052- U		39-03-89625		Pool Corral Tank	0.10	0.36
26-053- U		39-03-89631		Pot Hole Tank	0.10	0.04
26-054- U		39-03-89632		Pasture Tank	0.10	0.09
26-055- U		39-03-89633		Lake Tank	0.10	1.07
26-056- U		39-03-89634		Sidehill Tank	0.10	0.08
26-057- U		39-03-89635		Pool Corral Lake Tank	0.10	0.12
26-058- U		39-03-89636		Seven One (TI) Tank	0.093	0.09
26-059- U		39-03-89637		Draw Tank	0.09	0.36
26-060- U		39-03-89638		Mel Tank	0.09	0.17
26-061- U		39-03-89639		CB Tank One (Fake Tank)	0.09	0.21
26-062- U		39-03-89640		BC Tank	0.09	0.21
26-063- U		39-03-89641		Bog Tank	0.146	0.111
26-064- U		39-03-89642		Hill Tank	0.14	0.26
26-065- U		39-03-89643		Rudd Knoll Pit Tank	0.146	0.13
26-066- U		39-03-89646		Bluff Tank	0.14	0.21
26-067- U		39-03-89647		Rudd Knoll Pit Tank #3	0.14	0.10
26-068- U		39-03-89648		Tank #4	0.14	0.31
26-069- U		39-03-89649		Fence Tank	0.10	0.19
26-070- U		39-03-89650		Riley Tank	0.09	0.21
26-071- U		39-03-89651		S. Fork Spring Tank	0.10	0.25
26-072- U		39-03-89652		South Fork Tank	0.10	0.06
26-073- U		39-03-89653		Mike Tank	0.10	0.22
26-074- U		39-03-89654		Drumstick Tank	0.10	0.24
26-075- U		39-03-89655		South Hog Wallow Tank	0.10	0.07
26-076- U		39-03-89656		North Hog Wallow Tank	0.10	0.27
26-077- U		39-03-89666		Steve Tank	0.10	0.19
26-078- U		39-03-89667		Riley Canyon Tank	0.10	0.11
26-079- U		39-03-89668		Red Tank	0.10	0.22
26-080- U		39-03-89669		Little Tank	0.10	0.22
26-081- U		39-03-89670		Dozer Stock Tank	0.10	0.06
26-082- U		39-03-89671		Hogshead Tank	0.10	0.25
26-083- U		39-03-89672		Alpha Tank	0.10	0.14
26-084- U		39-03-89673		Rudd Knoll Pit Tank #4	0.14	0.09
26-085- U		39-03-89680		Stock Tank #4	0.14	0.44
26-086- U		39-03-89681		Stock Tank #3	0.14	0.21
26-087- U		39-03-89682		Division Tank	0.09	0.31
26-088- U		39-03-89683		C.B. Tank One	0.09	0.31
26-089- U		39-03-89684		Stock Tank #2	0.14	0.12
26-090- U		39-03-89685		Chi Tank	0.10	0.17
26-091- U		39-03-89686		Beta Tank	0.10	0.10
26-092- U		39-03-89687		Winch Tank	0.10	0.26
26-093- U		39-03-89690		Spec Tank	0.09	0.06
26-094- U		39-03-89691		C.B. Tank #2	0.09	0.32
26-095- U		39-03-89698		C.B. Tank #3	0.09	0.53
26-096- U		39-03-89699		Point of the Mtn. Tank	0.09	0.53
26-097- U		39-03-89701		Wad Tank	0.09	0.06
26-098- U		39-03-89707		Phoneline Tank	0.10	0.19
26-099- U		39-03-89708		Sawmill Tank	0.09	0.12
26-100- U		39-03-89715		Bigelow Tank	0.10	0.09
26-101- U		39-03-90447		Grapevine Spring	0.093	
26-102- U		39-03-90449		Sawmill Spring	0.093	
26-103- U		39-03-90450		Basin Spring	0.144	
26-104- U		39-03-90465		Instream use, S. Fk. LCR	0.100	
26-105- U		39-03-90466		Loon Sink	0.000	
26-106- U		39-03-90467		Canvasback Sink	0.000	

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-001- D	39-03-87460			N. Fork Well	10.00	
26-003- D	39-03-87466			Cottonwood Spring	0.25	
26-004- D	39-03-87466			Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466			Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467			Trap Spring	0.30	
26-007- D	39-03-87467			Trap Tank	0.20	1.37
26-008- D	39-03-87468			Horse Spring	0.30	
26-009- D	39-03-87468			Horse Tank	0.20	2.54
26-020- D	39-03-89068			Cinder Well	20.00	0.15
26-021- D	39-03-89069			Coulter Well	20.00	0.09
26-022- D	39-03-89070			Whiting Well	20.00	0.15
26-023- D	39-03-89072			26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073			Lower Corral Well	5.40	
26-025- D	39-03-89076			Becker Well	20.00	0.002
26-026- D	39-03-89289			Private irr./stk from LCR	166.00	
26-027- D	39-03-89112			RVWUA water use	124.00	184.00
26-028- D	39-03-91909			Calving Pasture Well	59.00	
26-029- D	39-03-91910			10" Rim Pasture Well	158.00	
26-030- D	39-03-91911			Abstract deleted		
26-031- D	39-03-91913			John Wayne Fishing Pond	3.00	3.00
26-046- D				Unnamed Well	10.00	
26-047- D				Rabbit Well	10.00	
26-048- D				Well	10.00	
26-002- DS	39-03-87465		39-03-85674	N.Fork HQ Well	2.18	
26-010- S	39-03-89058		39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059		39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060		39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061			Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062			Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063		39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064		39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065		39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066		39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067		39-03-85715	River Well	20.00	0.08
26-032- S			39-03-85532	Lost Tank	0.95	0.95
26-033- S			39-03-85668	Big Tank	10.40	10.40
26-034- S			39-03-85670	Corner Tank	3.70	3.70
26-035- S			39-03-85672	Well Tank	0.50	0.50
26-036- S			39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S			39-03-85675	Cinder Tank	1.70	1.70
26-038- S			39-03-85676	East Side Tank	1.10	1.10
26-039- S			39-03-85678	Long Tank	2.90	2.90
26-040- S			39-03-85685	East House Pasture Well	0.18	
26-041- S			39-03-85707	Instream use, LCR	0.20	
26-042- S			39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S			39-03-85710	Tank #10	0.20	0.20
26-044- S			39-03-85712	Instream use, LCR	0.65	
26-045- S			39-03-85714	Instream use, LCR	1.40	
26-049- U		39-03-89622		Butch Tank	0.09	0.14
26-050- U		39-03-89623		Road Tank	0.10	0.13
26-051- U		39-03-89624		Ant Tank	0.10	0.71
26-052- U		39-03-89625		Pool Corral Tank	0.10	0.36
26-053- U		39-03-89631		Pot Hole Tank	0.10	0.04
26-054- U		39-03-89632		Pasture Tank	0.10	0.09
26-055- U		39-03-89633		Lake Tank	0.10	1.07
26-056- U		39-03-89634		Sidehill Tank	0.10	0.08
26-057- U		39-03-89635		Pool Corral Lake Tank	0.10	0.12

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-115- U		39-03-90501		Hay Spring	0.093	
26-116- U		39-03-90502		Abandoned Spring	0.146	
26-117- U		39-03-90503		Head Spring	0.093	
26-118- U		39-03-90504		Instream use, Water Canyon	0.146	
26-119- U		39-03-90505		Instream use, unnamed wash	0.146	
26-120- U		39-03-90513		Baca Spring	0.146	
26-121- U		39-03-90514		Duker Spring	0.146	
26-122- U		39-03-90515		Wahl Knoll Spring	0.090	
26-123- U		39-03-90516		Instream use, S. Fk. LCR	0.100	
26-124- U		39-03-90518		Hay Lake (Waterfowl)	0.000	
26-125- U		39-03-90526		Hog Wallow Lake (Waterfowl)	0.000	
26-126- U		39-03-90527		Wing Marsh	0.000	
26-127- U		39-03-90528		(Head of) South Fk. Spring	0.100	
26-128- U		39-03-90529		(Bill) Riley Spring	0.093	
26-129- U		39-03-90530		Cabin Spring	0.146	
26-130- U		39-03-90531		Rudd Knoll Spring	0.146	
26-131- U		39-03-90532		Lost Spring	0.146	
26-132- U		39-03-90533		Miller Spring	0.146	
26-133- U		39-03-90538		Pool Corral Lake (Waterfowl)	0.000	
26-134- U		39-03-90539		Reservoir Spring	0.100	
26-135- U		39-03-90541		Instream use, E. Fk. LCR	0.100	
26-136- U		39-03-90554		Pool Corral Spring	0.100	
26-137- U				Instream use, Joe Baca Draw	0.100	
26-138- U				Instream use, Grapevine Cr.	0.600	
26-139- U				Unnamed tank	0.03	0.03
26-140- U				Unnamed tank	0.06	0.06
26-141- U				Unnamed tank	1.40	1.40
26-142- U		39-07-08948		Deep Pit Tank	0.093	0.48
26-143- U				Unnamed tank	0.60	0.60
26-144- U				Unnamed tank	0.09	0.09
26-145- U				Unnamed tank	0.20	0.20
26-146- U				Unnamed tank	0.03	0.03
26-147- U				Unnamed tank	0.10	0.10
26-148- U				Mexican Hay Lake stockwater	0.12	
26-149- U				Hog Wallow Lake stockwater	0.12	
26-150- U				Slade Reservoir stockwater	0.12	
26-151- U				Water Canyon Res. stockwater	0.12	
26-152- U				Atcheson Reservoir stockwater	0.12	
26-153- U				Rudd Reservoir stockwater	0.12	
26-154- U				Little George Res. stockwater	0.12	
26-155- U				Russell Reservoir stockwater	0.12	
See 26-026-D	39-03-89071					
See 26-026-D	39-03-89074					
See 26-026-D	39-03-89075					
				Total all uses	809.993	251.333
				Total irrigation from surface water for 193.5 ac (26-026 & 027-D)	290.000	184.000
				Total supplemental irrigation from wells (26-028 & 029-D)	217.000	0.000
				Total all irrigation	507.000	184.000
				Total remaining uses	302.993	67.333

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

U=U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87460			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-646494			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (N. Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		------ CFS		
Annual Volume of Use:	------ Gal		10.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	About 1961				

Comments:
Based on GPS, the well is located in section 21 which conflicts with the section 16 location in the filings.
Since no annual use amount or flow rate is given in the filings, the amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-002-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87465			
	Filed by SLD:	39-03-85674			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614137			
Type of Uses:	Domestic, Stockwater, Wildlife				
Source of Supply:	Groundwater (N. Fork HQ Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESWNE		21	10N	28E
Place of Use (if different from POD):	SWNE, N2NE		21	10N	28E
Flow Rate:	35 or less	GPM	------ CFS		
Annual Volume of Use:	------ Gal		2.18 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Jan. 19, 1916				

Comments:
POU includes stock use at well (on State lease land) plus domestic/stock use in N2NE (deeded ranch land).
Since the filings did not list a flow rate, the value herein is estimated from rates for similar wells on the ranch.
Since the filings did not list a domestic annual use amount, an estimated 2 af/yr domestic use based on similar ranch wells was added to the .18 af/yr stock use claimed in the SLD filing.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025025			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Cottonwood Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.25 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Approx. 1890				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025040 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.86 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cottonwood Tank #1				
Priority Date:	1952				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-005-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025041 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	*Qtr Qtr*		*Sec*	*T*	*R*
Points of Diversion (POD):	SESW		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cottonwood Tank #2				
Priority Date:	1958				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-006-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87467			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025022			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Trap Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1890				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87467			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025038 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWSE		16	10N	28E
	NENWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.37 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Trap Tank				
Priority Date:	1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87468			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025021			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Horse Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1890				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87468			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025039 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSWSE		16	10N	28E
	NWNWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.54 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Horse Tank				
Priority Date:	1954				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89058			
	Filed by SLD:	39-03-85543			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-015350			
	Filed by SLD:	36-000751 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		34	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.20 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Carnero Cr. Tank #4				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility SLD filing 38-088872 (rejected status). This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-011-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89059			
	Filed by SLD:	39-03-85680			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000839 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		29	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.46 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Meek Tank				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-012-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89060			
	Filed by SLD:	39-03-85681			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000840			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Carnero Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Into supply ditch from Carnero Creek:	NWNE		4	9N	28E
Place of Use (if different from POD):					
Pond and dam:	SESW		33	10N	28E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.06 AF	
Storage Volume or Reservoir Capacity:		------ Gal		6.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cinder Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-013-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89061		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNWSE	10	9N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	3.00 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed natural pond			
Priority Date:	Before 1967			

Comments:
Since the filing does not list annual use amount, the value herein is estimated to be equal to the tank capacity.
A definite priority date is not clearly stated in the claim, hence the construction date listed in the filing is used herein.
Aerial photos and the filing indicate the facility is a natural pond or sink.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-014-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89062			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NWSE		10	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Unnamed natural pond				
Priority Date:	Before 1967				

Comments:
Since the filing does not list annual use amount, the value herein is estimated to be equal to the tank capacity.
A definite priority date is not clearly stated in the claim, hence the construction date listed in the filing is used herein.
Aerial photos and the filing indicate the facility is a natural pond or sink.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-015-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89063			
	Filed by SLD:	39-03-85539			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614098			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Rocky Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	9N	28E
Place of Use (if different from POD):	SENE		23	9N	28E
	SWNW		24	9N	28E

Flow Rate:	20 GPM	------ CFS
Annual Volume of Use:	------ Gal	20.00 AF
Storage Volume or Reservoir Capacity:	30,000 Gal	0.09 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Feb. 24, 1917	

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-016-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89064			
	Filed by SLD:	39-03-85544			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-644834			
	Filed by SLD:	55-614099			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (South Udahl Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		36	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		------ CFS		
Annual Volume of Use:	------ Gal		20.00 AF		
Storage Volume or Reservoir Capacity:	45,000 Gal		0.14 AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 30, 1853				

Comments:
Water pumped into storage tank/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-017-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89065			
	Filed by SLD:	39-03-85530			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614097			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Hamblin Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		3	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		------ CFS		
Annual Volume of Use:	------ Gal		20.00 AF		
Storage Volume or Reservoir Capacity:	60,000 Gal		0.18 AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Feb. 24, 1917				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89066			
	Filed by SLD:	39-03-85671			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614136			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Udahl Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		18	10N	28E
Place of Use (if different from POD):	SWSE		18	10N	28E
Water also piped to:	NWNW		29	10N	28E
Flow Rate:	35 or less GPM		------ CFS		
Annual Volume of Use:	------ Gal		20.00 AF		
Storage Volume or Reservoir Capacity:	30,000 Gal		0.09 AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Sep.27, 1916				

Comments:
Water pumped to storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-019-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89067			
	Filed by SLD:	39-03-85715			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614144			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (River Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		31	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	------	CFS	
Annual Volume of Use:	------	Gal	20.00	AF	
Storage Volume or Reservoir Capacity:	25,000	Gal	0.08	AF	
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jan.7, 1924				

Comments:
Water pumped into storage tank/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89068			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625567			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Cinder Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		27	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		30 GPM		------ CFS	
Annual Volume of Use:		------ Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		50,000 Gal		0.15 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Unknown				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-021-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89069			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625565			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Coulter Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		2	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		30 GPM		------ CFS	
Annual Volume of Use:		------ Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		30,000 Gal		0.09 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Unknown				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-022-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89070			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625566			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Whiting Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		14	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		30 GPM		------ CFS	
Annual Volume of Use:		------ Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		50,000 Gal		0.15 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Unknown				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-023-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89072			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625564			
	Filed by SLD:				
Type of Uses:	Domestic, Stockwater				
Source of Supply:	Groundwater (26 Bar HG Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWNW		7	8N	29E
Place of Use (if different from POD):	SWNW, SWSW		7	8N	29E

Flow Rate:	35 GPM	------ CFS
Annual Volume of Use:	------ Gal	17.60 AF
Storage Volume or Reservoir Capacity:	15,000 Gal	0.05 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1962	

Comments:
Water piped from well across river to house and barns in SWSW and to drinker on top of rim in SWNW.
Annual use reflects 5 af domestic and 12.6 af stockwater use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89073			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625563			
	Filed by SLD:				
Type of Uses:	Domestic, Stockwater				
Source of Supply:	Groundwater (Lower Corral Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		7	8N	29E
Place of Use (if different from POD):					
At well:	NWNE		7	8N	29E
At house:	NWSE		7	8N	29E
At barns & pasture:	NESE		7	8N	29E
Flow Rate:	Less than 35	GPM	------	CFS	
Annual Volume of Use:	------	Gal	5.40	AF	
Storage Volume or Reservoir Capacity:	------	Gal	------	AF	
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1962				

Comments:
Water used at well and is also piped across river to house/barns/pasture.
Annual use reflects 2.0 af domestic use and 3.4 af stockwater use.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-025-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89076			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-803074			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Becker Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		30	9N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		------ CFS		
Annual Volume of Use:	------ Gal		20.00 AF		
Storage Volume or Reservoir Capacity:	800 Gal		0.002 AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Before 1964				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-026-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89289, 39-03-89071, 39-03-89074, & 39-03-89075
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	Norviel Decree
	Filed by SLD:	
Type of Uses:	Irrigation, Stockwater	
Source of Supply:	Little Colorado River	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Milligan Ditch (serving Milligan Field):	NESW	7	8N	29E
Rim Ditch (serving Rim Field):	SENE	12	8N	28E
Springerville/26 Bar D.(serving 69 tract):	NWSE	5	8N	29E
Unnamed ditch(serving 69 tract):	NENE	7	8N	29E
Unnamed ditch(subirr. in 69 tract):	SENE	5	8N	29E
Place of Use (if different from POD):				
Milligan Field:	SENW, SWNE	7	8N	29E
Rim Field:	NW, W2NE	7	8N	29E
69 Tract:	W2NW	4	8N	29E
69 Tract:	E2NE	5	8N	29E

Flow Rate:	------ GPM	------ CFS	
Annual Volume of Use:	------ Gal	166.00 AF	(Water duty)
Storage Volume or Reservoir Capacity:	------ Gal	------ AF	
Irrigated Acres (if irrigation use):	110.5 Ac		
Name of Reservoir or Stockpond:			
Priority Date:	Various dates from 1872-1881		

Comments:

This abstract covers private 26 Bar Ranch irrigation and related stock use from the Little Colorado River and excludes uses from water provided by the Round Valley Water Users Association.

Information obtained from Apache County Superior Court shows 26 Bar Ranch is allowed 110.5 acres private irrigation with priority dates of 1872-1881 under the Norviel Decree. Aerial photo analysis shows present/historic irrigation approximating the 110.5 acres

Annual use is based on Norviel Decree water duty of 1.5 af/ac for 110.5 acres. Additional amounts are claimed for conveyance losses not included in the water duty. This water duty may increase based on settlement negotiations.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-027-D				
Applicable Adjudication Filings:	Filed by Irr. Co.:	39-03-89112			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by Irr. Co.:	Norviel Decree			
	Filed by SLD:				
Type of Uses:	Irrigation, Stockwater				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Amity Ditch(serving Lower Barn and Calving Pasture):	SWNE		12	8N	28E
Big Ditch (serving Upper and Middle Barn Areas):	NWSE		16	8N	28E
Place of Use (if different from POD):					
Upper/Middle/Lower Barn Areas:	N2SW,SWSW		7	8N	29E
Upper/Middle/Lower Barn Areas:	NWNW		18	8N	29E
Calving Pasture:	NESE		7	8N	29E
Flow Rate:		------ GPM	------ CFS		
Annual Volume of Use:		------ Gal	124.00 AF	(Water duty)	
Storage Volume or Reservoir Capacity:		------ Gal	184.00 AF	(See comments)	
Irrigated Acres (if irrigation use):		83 Ac	(See comments)		
Name of Reservoir or Stockpond:					
Priority Date:	Various dates from 1872-1891				

Comments:

This abstract covers water use from the Round Valley Water Users Association (RVWUA) on the 26 Bar Ranch.

The 26 Bar Ranch holds 3011.93 shares in the RVWUA, and in addition leases an additional 8 af/yr.

The storage volume and irrigated acreage are based on the total irrigated acres and storage amounts allowed for the RVWUA (based on information received from Apache County Superior Court) times the ratio of 26 Bar Ranch shares to total RVWUA shares.

Annual use is based on Norviel Decree water duty of 1.5 af/ac for 83 acres. Additional amounts are claimed for conveyance losses not included in the water duty. This water duty may increase based on settlement negotiations. Additional leased water is in addition to the designated water right.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-028-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-91909		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Irrigation			
Source of Supply:	Groundwater (Calving Pasture Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	7	8N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	100 GPM	------ CFS		
Annual Volume of Use:	------ Gal	59.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	15 Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1980			

Comments:
Well is believed to have supplied supplemental irrigation water to a portion of Calving Pasture

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-029-D			
Applicable Adjudication Filings:	Filed by ranch: 39-03-91910			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Irrigation			
Source of Supply:	Groundwater (10" Rim Pasture Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWNW	7	8N	29E
Place of Use (if different from POD):	NW, W2NE	7	8N	29E

Flow Rate:	300 GPM	------ CFS
Annual Volume of Use:	------ Gal	158.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	40 Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1980	

Comments:
Well is believed to have supplied supplemental irrigation water to a portion of Rim Field

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-030-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-91911			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614138			
Type of Uses:	Irrigation				
Source of Supply:	Springs, ponds and groundwater (N.Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Springs and ponds:	SESW, SWSE		16	10N	28E
Springs and ponds:	NWNE		21	10N	28E
Well(Supplemental supply):	NWSWNE		21	10N	28E
Place of Use (if different from POD):	SWSE, SESW		16	10N	28E

Flow Rate:	70 GPM	------ CFS	
Annual Volume of Use:	------ Gal	40.00 AF	
Storage Volume or Reservoir Capacity:	------ Gal	------ AF	See comments
Irrigated Acres (if irrigation use):	10 Ac		
Name of Reservoir or Stockpond:	See comments		
Priority Date:	Prior to 1970		

Comments:
This abstract covers only the irrigation use portion of the use of the springs, ponds, and well.
The springs and ponds are also used for stockwater or stockpond use covered by abstracts 26-003-D, 26-005-D, 26-006-D, 26-007-D, 26-008-D, 26-009-D
The well (located on State lease land) is also used to supply water to Well Tank covered by abstract 26-035-S

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-031-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-91913		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife			
Source of Supply:	Unnamed spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	12	8N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	John Wayne Fishing Pond	
Priority Date:	1970	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-032-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85532		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000741		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	1	9N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.95 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Lost Tank			
Priority Date:	Prior to 1884			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-033-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85668			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025026 (Rejected Status)			
	Filed by SLD:	36-000831			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW, SWNE		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.40 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big Tank				
Priority Date:	Dec. 30, 1853				

Comments:
Rejected filing 38-025026 (listed as a basis of claim on SLD filing 39-03-85668) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-034-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85670			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025033 (Rejected Status)			
	Filed by SLD:	36-000833			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dike across draw:	NWNE		17	10N	28E
Place of Use (if different from POD):					
Pond:	NENE		17	10N	28E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025033 (listed as a basis of claim on SLD filing 39-03-85670) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-035-S	
Applicable Adjudication Filings:	Filed by ranch:	
	Filed by SLD:	39-03-85672
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025036 (Rejected Status)
	Filed by SLD:	36-000834, 55-614138
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed draw and groundwater (N. Fork Well)	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSWNE	21	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.50 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Well Tank	
Priority Date:	Prior to 1884	

Comments:
Supplemental irrigation use of well is covered separately in abstract 26-030-D.
Rejected filing 38-025036 covers this stockpond

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-036-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85673			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025035 (Rejected Status)			
	Filed by SLD:	36-000835			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.80 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.80 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pumphouse Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025035 covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-037-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85675			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025037 (Rejected Status)			
	Filed by SLD:	36-000836			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		22	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cinder Tank				
Priority Date:	*Prior to 1884*				

Comments:
Rejected filing 38-025037(listed as a basis of claim on SLD filing 39-03-85675) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-038-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85676			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025034 (Rejected Status)			
	Filed by SLD:	36-000837			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		23	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	East Side Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025034 (listed as a basis of claim on SLD filing 39-03-85676) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-039-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85678			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025042 (Rejected Status)			
	Filed by SLD:	36-000838			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Carnero Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW,NWNE		26	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.90 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Long Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025042 (listed as a basis of claim on SLD filing 39-03-85678) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-040-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85685		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	55-614139		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Groundwater (East House Pasture Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	22	10N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.18 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Sep.27, 1916			

Comments:
Since filings did not list flow rate, the value herein was estimated from rates of similar wells on the ranch

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-041-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85707			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025019			
	Filed by SLD:	36-000861			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		30	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1880				

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-042-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85709		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000862 (See comments)		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	30	10N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.19 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Ten Prime Tank			
Priority Date:	Prior to 1884			

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-043-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85710			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000863 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		30	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.20 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Tank #10				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-044-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85712		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000213		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	30	10N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.65 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-045-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD: 39-03-85714			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD: 36-000132			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	30	10N	29E
	NWNE, SWNE, SENE	31	10N	29E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.40 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1884	

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-046-D				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625562			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (unnamed well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWNW		7	8N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		35 GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1962				

Comments:
Since no annual use amount is listed in the filing, the amount herein is estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-047-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (Rabbit Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	12	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	------ CFS		
Annual Volume of Use:	------ Gal	10.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Unknown			

Comments:
Well location based on GPS.
The flow rate and annual use amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-048-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	12	8N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	35 or less GPM	------ CFS
Annual Volume of Use:	------ Gal	10.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Unknown	

Comments:
Well location based on GPS.
The flow rate and annual use amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-049-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89622 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013279 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Headwaters of S. Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	33	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.14 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Butch Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-050-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89623 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013231 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	31	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		------ GPM	------ CFS	
Annual Volume of Use:		------ Gal	0.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal	0.13 AF	
Irrigated Acres (if irrigation use):		------ Ac		
Name of Reservoir or Stockpond:	Road Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-051-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89624 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013205 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		------ GPM	------ CFS	
Annual Volume of Use:		------ Gal	0.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal	0.71 AF	
Irrigated Acres (if irrigation use):		------ Ac		
Name of Reservoir or Stockpond:	Ant Tank			
Priority Date:	1970			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-052-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89625 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013263 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.36 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Pool Corral Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-053-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89631 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013264 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 2 (SWNW)	30	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.04 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Pot Hole Tank	
Priority Date:	1962	

Comments:
Facility is a dugout tank at the west end of a small unnamed lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-054-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89632 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013227 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 3 (NWSW)	30	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.09 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Pasture Tank	
Priority Date:	1965	

Comments:
Filing 38-013227 has Pasture Tank erroneously located in section 10

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-055-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89633 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013260 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	29	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		------ GPM	------ CFS	
Annual Volume of Use:		------ Gal	0.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal	1.07 AF	
Irrigated Acres (if irrigation use):		------ Ac		
Name of Reservoir or Stockpond:	Lake Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-056-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89634 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013266 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	29	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.08 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Sidehill Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-057-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89635 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013229 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.12 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Pool Corral Lake Tank			
Priority Date:	1965			

Comments:
Some USFS allotment maps label this facility Spring Tank.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-058-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89636 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013277 Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Headwaters of the South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	29	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.093 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.09 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Seven One Tank (TI Tank)	
Priority Date:	Nov. 18, 1957	

Comments:

On USFS allotment maps, this facility is labeled TI Tank, while Seven One Tank is mistakenly shown to be in section 32, T7N,R28E where aerial photos show no tank.

Filing 38-013277 was not revoked or rejected because it originally had the tank located in section 32 (outside the LCR basin) but was later corrected.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-059-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89637 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013197 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Headwaters South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	28	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.36 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Draw Tank			
Priority Date:	Nov. 18, 1957			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-060-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89638 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013196 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Headwaters South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	28	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.17 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Mel Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-061-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89639 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013193 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	28	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.21 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	CB Tank One (Fake Tank)	
Priority Date:	1965	

Comments:
Filing 39-03-89639 labels this facility CB Tank One while filing 38-013193 calls it Fake Tank.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-062-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89640 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013198 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	28	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.21 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	BC Tank			
Priority Date:	1975			

Comments:
May need rehabilitation

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-063-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89641 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013308 Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	26	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.111 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Bog Tank			
Priority Date:	1965			

Comments:
Filing 38-013308 was not revoked/rejected because it was mistakenly determined by ADWR to be outside the LCR basin.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-064-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89642 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013158 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	26	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.26 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Hill Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-065-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89643 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013298 Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	25	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.13 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #1	
Priority Date:	1965	

Comments:
Filing 38-013298 was not revoked/rejected because it originally had the tank mistakenly located outside the LCR basin but was later corrected.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-066-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89646 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013165 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.21 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Bluff Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-067-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89647 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013310 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	23	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #3			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-068-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89648 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013311 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	22	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.31 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Tank #4			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-069-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89649 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013259 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	21	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.19 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Fence Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-070-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89650 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013283 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	21	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.21 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Riley Tank			
Priority Date:	June 30, 1958			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-071-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89651 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013232 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.25 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	South Fork Spring Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-072-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89652 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013267 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	20	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.06 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	South Fork Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-073-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89653 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013274 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.22 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Mike Tank			
Priority Date:	1962			

Comments:
Filings mistakenly place tank in NESE section 19 where aerial photos show no tank.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-074-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89654 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013224 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.24 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Drumstick Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-075-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89655 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013208 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff into tank and lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.07 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	South Hog Wallow Tank			
Priority Date:	1962			

Comments:
Filings mistakenly place tank just across section line in SWSE section 19.
Tank is dugout facility within high water level of Hog Wallow Lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-076-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89656 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013261 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff into tank and lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	19	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.27 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	North Hog Wallow Tank	
Priority Date:	1962	

Comments:
Tank is dugout facility within high water level of Hog Wallow Lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-077-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89666 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013271 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	17	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.19 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Steve Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-078-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89667 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013265 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.11 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Riley Canyon Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-079-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89668 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013230 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.22 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Red Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-080-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89669 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013226 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	16	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.22 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Little Tank	
Priority Date:	1965	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-081-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89670 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013258 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.06 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Dozer Stock Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-082-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89671 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013225 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	15	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.25 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Hogshead Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-083-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89672 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013273 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	15	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.14 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Alpha Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-084-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89673 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013167 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	14	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.14 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.09 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #4	
Priority Date:	1965	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-085-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89680 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013159 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	7	7N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.44 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Stock Tank #4			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-086-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89681 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013309 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	12	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.21 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Stock Tank #3			
Priority Date:	Sep. 10, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-087-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89682 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013192 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):					
Dam:	NENW	12	7N	28E	
Place of Use (if different from POD):					
Pond:	E2NW	12	7N	28E	

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.31 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Division Tank	
Priority Date:	1965	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-088-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89683 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013284 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	12	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.31 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	CB Tank One			
Priority Date:	August 24, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-089-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89684 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013157 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	11	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.12 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Stock Tank #2			
Priority Date:	Sep. 10, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-090-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89685 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013206 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.17 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Chi Tank			
Priority Date:	Jan. 24, 1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-091-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89686 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013221 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	10	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Beta Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-092-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89687 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013272 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	9	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.26 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Winch Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-093-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89690 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013280 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Joe Baca Draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSW	2	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM	------ CFS		
Annual Volume of Use:		------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:		------ Gal	0.06 AF		
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Spec Tank				
Priority Date:	1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-094-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89691 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013194 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	1	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.32 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	C.B. Tank #2			
Priority Date:	Sep. 1, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-095-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89698 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013282 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)	31	8N	29E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.53 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	C.B. Tank #3	
Priority Date:	Sep. 1, 1959	

Comments:
May need rehabilitation

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-096-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89699 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013191 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)	31	8N	29E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.53 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Point of the Mtn. Tank	
Priority Date:	1965	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-097-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89701 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013195 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	25	8N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.06 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Wad Tank	
Priority Date:	1965	

Comments:
Tank is dugout facility in small unnamed lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-098-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89707 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013262 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	27	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.19 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Phoneline Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-099-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89708 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013281 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	25	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.12 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Sawmill Tank			
Priority Date:	1955			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-100-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89715 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013223 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	24	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.09 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Bigelow Tank			
Priority Date:	1965			

Comments:
Aerial photo indicates possible dugout facility within unnamed lake.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-101-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90447 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012983 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Grapevine Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWSW	25	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	June 7, 1907				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-102-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90449 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013099 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Sawmill Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWNW	25	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1912				

Comments:
Spring location differs from that in filings and is based on telephone conversation with National Forest personnel

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-103-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90450 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013011 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Basin Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SESE	21	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.144 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-104-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90465 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012956 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW, W2SW	34	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1907			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-105-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:	39-03-90466			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:	36-025018			
Type of Uses:	Wildlife				
Source of Supply:	Loon Sink				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		36	8N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-106-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90467 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-024980 Filed by SLD:				
Type of Uses:	Wildlife				
Source of Supply:	Canvasback Sink				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NESW	36	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.00 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-107-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90468 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013100 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Rim Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SENE	36	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-108-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90469 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012984 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Point of the Mtn. Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2NW	31	8N	29E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.093 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	July 12, 1907	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-109-U				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by USFS:	39-03-90474			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by USFS:	36-024979			
	Filed by SLD:				
Type of Uses:	Wildlife				
Source of Supply:	Heron Marsh				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 3 (NWSW)		31	8N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-110-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90482 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015579 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lots 6 & 7 (W2SW)	6	7N	29E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-111-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90483 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012954 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	South Fork Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1(NENE),	SENE	4	7N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM		------ CFS		
Annual Volume of Use:	------ Gal		0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-112-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90484 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012962 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW, W2SE	4	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.100 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-113-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90499 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013104 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Clay Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	9	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.100 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-114-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90500 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012974 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	P.C. Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	10	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.100 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-115-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90501 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013095 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Hay Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	11	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.093 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-116-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90502 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013081 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Abandoned Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSE	11	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.146 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-117-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90503 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012985 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Head Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	12	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.093 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-118-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90504 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015578 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE, SWSE	12	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-119-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90505 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015571 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lots 4 & 5 (W2NW)	8	7N	29E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-120-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90513 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013006 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Baca Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	14	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-121-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90514 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013003 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Duker Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	14	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-122-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90515 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012988 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Wahl Knoll Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	15	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.090 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-123-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90516 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012961 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SE	17	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-124-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90518 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025017 Filed by SLD:				
Type of Uses:	Wildlife				
Source of Supply:	Hay Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (SWNW),	SENW	18	7N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM		------ CFS		
Annual Volume of Use:	------ Gal		0.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-125-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90526 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025015 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Hog Wallow Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-126-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90527 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025014 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Wing Marsh			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-127-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90528 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012975 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	(Head of) South Fork Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
USGS map labels spring as Head of South Fork Spring, while the filings say only South Fork Spring.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-128-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90529 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013096 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	(Bill) Riley Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SENE	21	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Filings are for Riley Spring, but USGS quad map shows it as Bill Riley Spring

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-129-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90530 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013002 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Cabin Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	23	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-130-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90531 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013005 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Rudd Knoll Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	23	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.146 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-131-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90532 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013080 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Lost Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-132-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90533 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013078 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Miller Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-133-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90538 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025013 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Pool Corral Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	29	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-134-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90539 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013103 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Reservoir Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	30	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.100 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	August 17, 1898	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-135-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90541 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012960 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	E. Fork Little Colorado River				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSE	25	7N	27E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM	------ CFS			
Annual Volume of Use:	------ Gal	0.100 AF			
Storage Volume or Reservoir Capacity:	------ Gal	------ AF			
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-136-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90554 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012973 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Pool Corral Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-137-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012955 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Joe Baca Draw (tributary to S. Fork LCR)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	34	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Ausust 17, 1898 (as per other instream use adjudication claims)			

Comments:
Instream use.
USFS unable to find a corresponding adjudication claim.
Filing indicates source is S. Fork Little Colorado River, but location on USGS quad map shows source to be a tributary of the S. Fork called Joe Baca Draw

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-138-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-102277 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Grapevine Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	24	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.60 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Ausust 17, 1898 (as per other instream use adjudication claims)			

Comments:
Instream use
USFS unable to find corresponding adjudication claim for this instream use.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-139-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.03 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.03 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1991			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-140-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	24	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.06 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.06 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of aerial photo that shows pond.
Tank is dugout facility within high water level of Russell Reservoir

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-141-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	20	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.4 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.4 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-142-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-07-08948 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013275 Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	22	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.093 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.48 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Deep Pit Tank	
Priority Date:	1965	

Comments:
This facility lies very near the Little Colorado River basin divide. The filings and USFS personnel indicate the tank lies on the Black River side of the divide outside the LCR basin, however aerial stereo photo interpretation indicates it lies on the LCR side of the divide within the LCR basin.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-143-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.6 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.6 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of the aerial photo that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-144-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.09 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1969			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-145-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	9	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.2 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.2 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of the aerial photo that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-146-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	16	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.03 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.03 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-147-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	31	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.1 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.1 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-148-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	NW	2	7N	28E
Place of Use (if different from POD):				
Reservoir:	SWNW	1	7N	28E
	N2, N2S2	2	7N	28E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Mexican Hay Lake	
Priority Date:	1908	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-149-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SESE	19	7N	28E
Place of Use (if different from POD):				
Reservoir:	S2SE, SESW	19	7N	28E
	N2NE	30	7N	28E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Hog Wallow Lake	
Priority Date:	1908	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-150-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed washes			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	NESE	13	7N	28E
	NWSW	18	7N	29E
Place of Use (if different from POD):				
Reservoir:	SE	13	7N	28E
	N2NE	24	7N	28E
	W2SW	18	7N	29E
	NWNW	19	7N	29E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Slade Reservoir	
Priority Date:	May 5, 1941	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from CWR #1712 which transfers storage rights from Rudd to Slade Res.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-151-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SENE	13	7N	28E
Place of Use (if different from POD):				
Reservoir:	SENE	13	7N	28E
	SWNW, NWSW	18	7N	29E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Water Canyon Reservoir	
Priority Date:	1893	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-152-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash & draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Unnamed wash into feeder canal :	NWNW	24	7N	28E
Dam on unnamed draw:	SWSE, SESW	13	7N	28E
Place of Use (if different from POD):				
Reservoir:	SW, W2SE	13	7N	28E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Atcheson Reservoir	
Priority Date:	1886	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-153-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Lake:	SE, SENE	23	7N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Rudd Reservoir	
Priority Date:	1895	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-154-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SESE	7	7N	29E
Place of Use (if different from POD):				
Reservoir:	S2SE	7	7N	29E
	N2NE	18	7N	29E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Little George Reservoir	
Priority Date:	1912	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-155-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Lake:	W2NW	19	7N	29E
	E2NE	24	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Russell Reservoir	
Priority Date:	Prior to 1958	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from a 1958 USGS 15 minute quad map on which the reservoir appears.

This file contains the following for Aja ranch abstracts:

- revised summary sheets
- revised abstract AJ-009-D------changed DS to D for ownership

Hard copies of the above sheets were manually inserted to replace the corresponding unrevised sheets which are described below.

The original unrevised sheets are in file H:\data\03\m036410\dale\ajaabs.xls

For future changes, the original unrevised file needs to be updated with the above changes before future changes are done.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI AJA RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
AJ-001- D	39-03-88056		Mitchell Well	13.26	13.26
AJ-002- D	39-03-88057		Pablo's Well	19.89	19.89
AJ-003- D	39-03-88058		Big Windmill Well	19.89	19.89
AJ-004- D	39-03-88059		Fidel Well	13.26	13.26
AJ-005- D	39-03-88060		Red Hill Well	19.89	19.89
AJ-006- S	39-03-88061	39-03-86297	White Tank Well	19.89	19.89
AJ-007- D	39-03-88062		Clear Cr. Well	13.26	13.26
AJ-008- D	39-03-88063		Home (Aja HQ) Well	19.89	
AJ-009- D	39-03-88064		Chevelon Cr. Reservoir	2.86	
AJ-010- S	39-03-88065		McHood (Clear Cr.) Res.	2.19	
AJ-011- DS	39-03-88066	39-03-86389	Cement Tank	1.60	0.04
AJ-012- D	39-03-88067		Chevelon Cr. Pump	2.21	
AJ-013- D	39-03-88068		Corbet Tank	2.54	2.54
AJ-014- D	39-03-88069		Big Tank	5.80	5.80
AJ-015- DS	39-03-88070	39-03-86296	White Tank	15.00	6.86
AJ-016- S	39-03-88071	39-03-86395	Chevelon Tank	60.00	53.30
AJ-017- S	39-03-88072	39-03-86301	Red Tank	64.50	64.50
AJ-018- S	39-03-88073	39-03-86295	Broken Tank	208.00	208.00
AJ-019- S	39-03-88074	39-03-86496	Diego Tank	19.40	19.40
AJ-020- D	39-03-88075		Home Tank	1.53	1.53
AJ-021- DS	39-03-88076	39-03-86495	Bottom Tank	14.70	14.70
AJ-022- DS	39-03-88077	39-03-86391	Lower Pasture Small Tank	5.00	8.00
AJ-023- D	39-03-88078		County Tank #1	2.50	3.70
AJ-024- S	39-03-88079	39-03-86505	River Tank #3	0.83	0.70
AJ-025- S	39-03-88080	39-03-86507	Little Chevelon Tank	3.63	3.30
AJ-026- S	39-03-88081	39-03-86392	Big L Tank	10.85	10.85
AJ-027- S	39-03-88082		County Tank #2	0.50	0.90
AJ-028- D	39-03-88083		Bull Tank	4.00	6.00
AJ-029- D	39-03-88084		Little Tank-16 Mile Pasture	0.90	1.50
AJ-030- DS	39-03-88085	39-03-86494	Little Tank	8.61	8.61
AJ-031- D	39-03-88086		River Tank #1	0.50	0.80
AJ-032- D	39-03-88087		Little L Tank	1.70	0.30
AJ-033- D	39-03-88088		River Tank #2	0.30	0.50
AJ-034- D	39-03-88089		Big Windmill Tank	0.60	1.10
AJ-035- DS	39-03-88090	39-03-86196	Little Antelope Tank	3.60	5.70
AJ-036- S	39-03-88091		Antelope Tanks Res.	Combined w/ AJ-037-S	
AJ-037- S	39-03-88092	39-03-86298	Antelope Tanks (Combined)	32.30	29.90
AJ-038- D	39-03-88093		Pablo's Tank	0.90	1.60
AJ-039- D	39-03-88094		County Well Hole	0.70	1.20
AJ-040- D	39-03-88095		Red Hill Tank	1.50	2.40
AJ-041- D	39-03-88096		Small Tank Clear Cr.	3.00	5.00
AJ-042- S	39-03-88097	39-03-86300	Coyote Tank	9.17	13.00
AJ-043- D	39-03-88098		28-Mile Tank	9.00	15.00
AJ-044- D	39-03-88099		Twin Tank #2	3.00	4.50
AJ-045- D	39-03-88100		Fidel Tank	0.60	1.00
AJ-046- D	39-03-88101		Middle Tank Clear Cr.	5.70	9.30
AJ-047- D	39-03-88102		County Tank-Big Windmill	0.30	0.40
AJ-048- S	39-03-88103	39-03-86390	Twin Tank #1	3.00	5.00
AJ-049- S	39-03-88104		Antelope Tank A	Combined w/ AJ-037-S	
AJ-050- S		39-03-86396	Babbitt Tank Canyon instrm.	0.83	
AJ-051- S		39-03-86502	Little Colo. R. instream use	0.83	
AJ-052- S		39-03-86506	Chevelon Ditch wide area	0.83	
			Total	654.74	636.27

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land S= State lease land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease & USFS permit lands
2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88064			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026306			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):					
Chevelon Creek Reservoir	S2NE		27	18N	17E
Tank (Not claimed on this abstract)	SWNE		11	18N	16E
Tank (Not claimed on this abstract)	SENE		7	18N	17E
Tank (Not claimed on this abstract)	NWSE		16	18N	17E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		931,700 Gal		2.86 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1942				

Comments:
Parts of the Place of Use of the filings (3 tanks) also have separate stockpond storage claims covered by abstracts AJ-031-D, AJ-033-D, and AJ-024-S. Therefore, this abstract is only for the annual use for instream stockwatering from Chevelon Creek Reservoir. Stock tanks served by the ditch system originating at Chevelon Creek Dam are associated with separate abstracts.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI AJA RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
AJ-001- D	39-03-88056		Mitchell Well	13.26	13.26
AJ-002- D	39-03-88057		Pablo's Well	19.89	19.89
AJ-003- D	39-03-88058		Big Windmill Well	19.89	19.89
AJ-004- D	39-03-88059		Fidel Well	13.26	13.26
AJ-005- D	39-03-88060		Red Hill Well	19.89	19.89
AJ-006- S	39-03-88061	39-03-86297	White Tank Well	19.89	19.89
AJ-007- D	39-03-88062		Clear Cr. Well	13.26	13.26
AJ-008- D	39-03-88063		Home (Aja HQ) Well	19.89	
AJ-009- DS	39-03-88064		Chevelon Cr. Reservoir	2.86	
AJ-010- S	39-03-88065		McHood (Clear Cr.) Res.	2.19	
AJ-011- DS	39-03-88066	39-03-86389	Cement Tank	1.60	0.04
AJ-012- D	39-03-88067		Chevelon Cr. Pump	2.21	
AJ-013- D	39-03-88068		Corbet Tank	2.54	2.54
AJ-014- D	39-03-88069		Big Tank	5.80	5.80
AJ-015- DS	39-03-88070	39-03-86296	White Tank	15.00	6.86
AJ-016- S	39-03-88071	39-03-86395	Chevelon Tank	60.00	53.30
AJ-017- S	39-03-88072	39-03-86301	Red Tank	64.50	64.50
AJ-018- S	39-03-88073	39-03-86295	Broken Tank	208.00	208.00
AJ-019- S	39-03-88074	39-03-86496	Diego Tank	19.40	19.40
AJ-020- D	39-03-88075		Home Tank	1.53	1.53
AJ-021- DS	39-03-88076	39-03-86495	Bottom Tank	14.70	14.70
AJ-022- DS	39-03-88077	39-03-86391	Lower Pasture Small Tank	5.00	8.00
AJ-023- D	39-03-88078		County Tank #1	2.50	3.70
AJ-024- S	39-03-88079	39-03-86505	River Tank #3	0.83	0.70
AJ-025- S	39-03-88080	39-03-86507	Little Chevelon Tank	3.63	3.30
AJ-026- S	39-03-88081	39-03-86392	Big L Tank	10.85	10.85
AJ-027- S	39-03-88082		County Tank #2	0.50	0.90
AJ-028- D	39-03-88083		Bull Tank	4.00	6.00
AJ-029- D	39-03-88084		Little Tank-16 Mile Pasture	0.90	1.50
AJ-030- DS	39-03-88085	39-03-86494	Little Tank	8.61	8.61
AJ-031- D	39-03-88086		River Tank #1	0.50	0.80
AJ-032- D	39-03-88087		Little L Tank	1.70	0.30
AJ-033- D	39-03-88088		River Tank #2	0.30	0.50
AJ-034- D	39-03-88089		Big Windmill Tank	0.60	1.10
AJ-035- DS	39-03-88090	39-03-86196	Little Antelope Tank	3.60	5.70
AJ-036- S	39-03-88091		Antelope Tanks Res.	Combined w/ AJ-037-S	
AJ-037- S	39-03-88092	39-03-86298	Antelope Tanks (Combined)	32.30	29.90
AJ-038- D	39-03-88093		Pablo's Tank	0.90	1.60
AJ-039- D	39-03-88094		County Well Hole	0.70	1.20
AJ-040- D	39-03-88095		Red Hill Tank	1.50	2.40
AJ-041- D	39-03-88096		Small Tank Clear Cr.	3.00	5.00
AJ-042- S	39-03-88097	39-03-86300	Coyote Tank	9.17	13.00
AJ-043- D	39-03-88098		28-Mile Tank	9.00	15.00
AJ-044- D	39-03-88099		Twin Tank #2	3.00	4.50
AJ-045- D	39-03-88100		Fidel Tank	0.60	1.00
AJ-046- D	39-03-88101		Middle Tank Clear Cr.	5.70	9.30
AJ-047- D	39-03-88102		County Tank-Big Windmill	0.30	0.40
AJ-048- S	39-03-88103	39-03-86390	Twin Tank #1	3.00	5.00
AJ-049- S	39-03-88104		Antelope Tank A	Combined w/ AJ-037-S	
AJ-050- S		39-03-86396	Babbitt Tank Canyon instrm.	0.83	
AJ-051- S		39-03-86502	Little Colo. R. instream use	0.83	
AJ-052- S		39-03-86506	Chevelon Ditch wide area	0.83	
			Total	654.74	636.27

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land S= State lease land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease & USFS permit lands
2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88056			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649888			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Mitchell Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2NW		12	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		10 GPM		------ CFS	
Annual Volume of Use:		4,320,000 Gal		13.26 AF	
Storage Volume or Reservoir Capacity:		4,320,000 Gal		13.26 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-002-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88057			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649887			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Pablo's Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		17	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88058			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649886			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Big Windmill Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88059			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649884			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Fidel Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		17	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		10 GPM		------ CFS	
Annual Volume of Use:		4,320,000 Gal		13.26 AF	
Storage Volume or Reservoir Capacity:		4,320,000 Gal		13.26 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-005-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88060			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649882			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Red Hill Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88061			
	Filed by SLD:	39-03-86297			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649883			
	Filed by SLD:	55-614260			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Groundwater (White Tank Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 13		2	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 20, 1910				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88062			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649881			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Clear Creek Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		31	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		10 GPM		------ CFS	
Annual Volume of Use:		4,320,000 Gal		13.26 AF	
Storage Volume or Reservoir Capacity:		4,320,000 Gal		13.26 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88063			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649885			
	Filed by SLD:				
Type of Uses:	Domestic, Irrigation, Stockwater				
Source of Supply:	Groundwater (Home (Aja HQ) Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		35	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac	(Incidental domestic lawn irrigation only)		
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Windmill has apparently been replaced by a pump based on claim information and aerial photo analysis.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-009-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88064			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026306			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):					
Chevelon Creek Reservoir	S2NE		27	18N	17E
Tank (Not claimed on this abstract)	SWNE		11	18N	16E
Tank (Not claimed on this abstract)	SENE		7	18N	17E
Tank (Not claimed on this abstract)	NWSE		16	18N	17E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		931,700 Gal		2.86 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1942				

Comments:
Parts of the Place of Use of the filings (3 tanks) also have separate stockpond storage claims covered by abstracts AJ-031-D, AJ-033-D, and AJ-024-S. Therefore, this abstract is only for the annual use for instream stockwatering from Chevelon Creek Reservoir. Stock tanks served by the ditch system originating at Chevelon Creek Dam are associated with separate abstracts.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88065			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026314			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	McHood (Clear Creek) Reservoir				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		10	18N	16E
Place of Use (if different from POD):	W2W2,NENW,SESW		16	18N	16E
Flow Rate:	------ GPM		------ CFS		
Annual Volume of Use:	713,000 Gal		2.19 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:	McHood (Clear Creek) Reservoir				
Priority Date:	Prior to 1942				

Comments:
The POD and POU herein reflect updated information not included in the filings. The old dam (SWSW sec.10) has been abandoned and a new higher dam built in the SWNW. The old POU (SWSW sec 10) was off ranch property, however the new reservoir backs up water onto ranch associated State lease land in section 16.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-011-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88066			
	Filed by SLD:	39-03-86389			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026308			
	Filed by SLD:	36-001282, 38-090736			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		23	17N	15E
Place of Use (if different from POD):	SESW		23	17N	15E
	NENW		26	17N	15E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cement Tank				
Priority Date:	Prior to 1884				

Comments:
1983 aerial photo indicates pond filled with sediment.
SLD filings list source as Antelope Wash, but a USGS map shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-012-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88067			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026307			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		21	16N	16E
Place of Use (if different from POD):	NENW		17	16N	16E
	NENW		21	16N	16E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		720,000 Gal		2.21 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1942				

Comments:
Water pumped from Chevelon Creek via pipe to 2 separate water tank locations

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-013-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88068			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026305			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		11	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		829,000 Gal		2.54 AF	
Storage Volume or Reservoir Capacity:		829,000 Gal		2.54 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Corbet Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-014-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88069			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026313			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		29	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		1,890,000 Gal		5.80 AF	
Storage Volume or Reservoir Capacity:		1,890,000 Gal		5.80 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big Tank				
Priority Date:	Prior to 1942				

Comments:
Two interconnecting pond system.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-015-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88070			
	Filed by SLD:	39-03-86296			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026311			
	Filed by SLD:	36-001221, 38-090729			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 13		2	16N	15E
	Lot 16		3	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		15.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		6.86 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	White Tank				
Priority Date:	Prior to 1884				

Comments:
Annual amount based on ranch filing 36-026311
SLD filings indicate source is White Tank Wash, but USGS map shows wash is unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-016-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88071			
	Filed by SLD:	39-03-86395			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026315			
	Filed by SLD:	33-090028, 36-001286			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2SE		6	17N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		60.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		53.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Chevelon Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings indicate source is Little Chevelon Wash, but a USGS maps shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-017-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88072			
	Filed by SLD:	39-03-86301			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026316			
	Filed by SLD:	33-090030, 36-001223			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		18	16N	16E
Place of Use (if different from POD):	SWNW,NWSW		18	16N	16E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		64.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		64.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Red Tank				
Priority Date:	Prior to 1884				

Comments:
This abstract covers a combined 2-pond system, with the upstream pond used to collect sediment.
SLD filings indicate source is named Red Tank Wash, but USGS map shows wash to be unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88073			
	Filed by SLD:	39-03-86295			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026317			
	Filed by SLD:	33-090032, 36-001220			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	4 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		36	16N	14E
Place of Use (if different from POD):	S2NE,N2SE,SENW		36	16N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		208.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		208.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Broken Tank				
Priority Date:	Dec 30,1853				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-019-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88074			
	Filed by SLD:	39-03-86496			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026309			
	Filed by SLD:	33-090034, 36-001354			
Type of Uses:	Stockpond,Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		32	18N	16E
Place of Use (if different from POD):	W2NW		32	18N	16E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		19.40 AF	
Storage Volume or Reservoir Capacity:		------ Gal		19.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Diego Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings name source as Diego Wash, but a USGS maps shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88075			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026312			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		35	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		499,100 Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		499,100 Gal		1.53 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Home Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-021-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88076			
	Filed by SLD:	39-03-86495			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026310			
	Filed by SLD:	36-001353, 38-090732			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed tributary to Clear Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		24	18N	16E
	NWNW		25	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		14.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bottom Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings list source as Vizcaya Wash, but a USGS map shows the tributary to be unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-022-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88077			
	Filed by SLD:	39-03-86391			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026342			
	Filed by SLD:	36-001284, 38-091284			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		10	17N	16E
	SWSW		3	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		8.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower (L) Pasture Small Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings list source as Relic Wash, but USGS map show wash unnamed

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-023-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88078			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026341			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Big Tanks				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		29	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	County Tank #1				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-024-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88079			
	Filed by SLD:	39-03-86505			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026321			
	Filed by SLD:	36-001355, 38-090731			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	NWSE		16	18N	17E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.83 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.70 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	River Tank #3	
Priority Date:	Dec 30, 1853	

Comments:
Water is diverted from Chevelon Creek at dam into a main ditch (called the Aja Ditch on SLD filings). Water is diverted from the main ditch in the NWSE sec.16, T18N,R17E into the stockpond which is the Place of Use. This stockpond, called River Tank #3 on ranch filings and River Tank #1 on SLD filings, is called River Tank #3 on this abstract because other ranch filings indicate River Tank #1 to be at a different location covered by abstract AJ-031-D.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-025-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88080			
	Filed by SLD:	39-03-86507			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026322			
	Filed by SLD:	36-001356, 38-090730			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		32	18N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.63 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Chevelon Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings indicate source is Little Chevelon Wash, but a USGS map shows wash to be unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-026-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88081			
	Filed by SLD:	39-03-86392			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026328			
	Filed by SLD:	36-001285, 38-090735			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	E2NE		16	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.85 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.85 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big L Tank (L Tank)				
Priority Date:	Dec 30, 1853				

Comments:
SLD filings name source as Relic Wash, but USGS map shows wash unnamed.
Ranch filings call the stockpond Big L Tank while the SLD filings call it L Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-027-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88082			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026327			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 10		6	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	County Tank #2				
Priority Date:	Prior to 1942				

Comments:
Stockpond in old borrow pit

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-028-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88083			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026339			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		25	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		6.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bull Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-029-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88084			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026340			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		5	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.90 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Tank-16 Mile Pasture				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-030-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88085			
	Filed by SLD:	39-03-86494			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026329			
	Filed by SLD:	36-001352, 38-090733			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		16	18N	16E
Place of Use (if different from POD):	SESE		16	18N	16E
	NENE		21	18N	16E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		8.61 AF	
Storage Volume or Reservoir Capacity:		------ Gal		8.61 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Tank (Highway 99 Tank)				
Priority Date:	Dec 30, 1853				

Comments:
Ranch filings call the stockpond Little Tank while SLD filings call it Highway 99 Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-031-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88086			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026323			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Chevelon Creek and unnamed source				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
POD from Chevelon Cr. for main ditch	NWSW		23	18N	17E
POD for pond from main ditch carrying combined water.	SENE		11	18N	16E
Place of Use (if different from POD):	SWNE		11	18N	16E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.80 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	River Tank #1	
Priority Date:	Prior to 1942	

Comments:
Chevelon Creek water is diverted into main ditch at Chevelon Creek Dam. Unnamed wash water flows into main ditch in SENE sec.11,T18N,R16E. The combined water is then diverted from main ditch downstream from the unnamed wash confluence into a diversion ditch which goes to the stockpond which is the Place of Use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-032-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88087			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026324			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		11	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little L Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-033-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88088			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026319			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	SENE		7	18N	17E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.50 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	River Tank #2	
Priority Date:	Prior to 1942	

Comments:
Water is diverted at Chevelon Creek Dam into main ditch. Water is diverted from main ditch into a diversion ditch in the SWNW sec.8, T18N,R17E and carried to the stockpond which is the Place of Use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-034-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88089			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026318			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big Windmill Tank				
Priority Date:	Prior to 1942				

Comments:
Adjacent County Tank-Big Windwmill described by AJ-047-D

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-035-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88090			
	Filed by SLD:	39-03-86196			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026325			
	Filed by SLD:	36-001166, 38-091187			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2SW		35	16N	15E
Place of Use (if different from POD):	S2SW		35	16N	15E
	NWNW		2	15N	15E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Antelope Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings name source as Little Antelope Wash, but USGS map show wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-036-S	COMBINED WITH AJ-037-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-88091
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Antelope Tank Reservoir	

Priority Date:

Comments:
This pond was claimed separately by the ranch former owners but is part of a 3-pond system combined in AJ-037-S

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-037-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-88091,39-03-88092,39-03-88104
	Filed by SLD:	39-03-86298
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026343,38-026344,38-026345
	Filed by SLD:	33-090036,36-001252
Type of Uses:	Stockpond, Recreation/Fish/Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2SE, SWNE	26	16N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	32.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	29.90 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Antelope Tanks (Combined)	
Priority Date:	Prior to 1884	

Comments:
This abstract covers a combined 3-pond system as claimed in the SLD filings. The former ranch owners claimed these 3 ponds separately, but this abstract combines the 3 pond claims (AJ-036-S, AJ-037-S and AJ-049-S) into one claim.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88093			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026320			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		18	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.90 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pablo's Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-039-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88094			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026326			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		13	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.20 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	County Well Hole				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88095			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026332			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		23	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Red Hill Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-041-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88096			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026331			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		33	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Small Tank Clear Creek				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-042-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88097			
	Filed by SLD:	39-03-86300			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026330			
	Filed by SLD:	36-001222, 38-091247			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		6	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.17 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Coyote Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings list source as Antelope Wash, but USGS map shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88098			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026335			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		15	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	28-Mile Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-044-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88099			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026333			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		25	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Twin Tank #2				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-045-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88100			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026337			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		17	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Fidel Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-046-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88101			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026334			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		9.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Middle Tank Clear Creek				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-047-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88102			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026336			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed and Big Windmill Tank				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	County Tank-Big Windmill				
Priority Date:	Prior to 1942				

Comments:
Adjacent Big Windmill Tank described in AJ-034-D

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88103			
	Filed by SLD:	39-03-86390			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026338			
	Filed by SLD:	36-001283, 38-090734			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		36	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Twin Tank #1 (Upper Twin Tank)				
Priority Date:	Dec 30, 1853				

Comments:
SLD filings name source as Antelope Wash but USGS map shows wash unnamed.
Ranch filings name stockpond Twin Tank #1 while SLD filings name it Upper Twin Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-049-S	COMBINED WITH AJ-037-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-88104
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Antelope Tank A	
Priority Date:		

Comments:
This pond was claimed separately by the ranch former owners but is part of a 3-pond system combined in AJ-037-S

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-050-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86396			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000319			
Type of Uses:	Stockwater, Recreation/Fish/ Wildlife				
Source of Supply:	Babbitt Tank Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE, SESE		16	17N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec 30, 1853				

Comments:
Instream stockwater use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-051-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86502			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-102004, 36-000358			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		8	18N	17E
	NW, NE, SE		16	18N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec 30, 1853				

Comments:
Instream stockwater use.
Although SLD filing 36-000358 is not considered by the SLD to form the basis of claim for 39-03-86502, it is included herein because it generally covers the same POD & POU as 36-102004 and 39-03-86502.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-052-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86506			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000320			
Type of Uses:	Stockwater, Recreation/Fish Wildlife				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	NENE		22	18N	17E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Water is diverted at Chevelon Creek Dam into a ditch. The Place of Use is a dug-out wide area on the ditch, but is not considered a stockpond.

This file contains the following on the Clear Creek abstracts:

- revised summary sheets
- revised abstract sheets
  CC-121-S changed source to local runoff only and deleted remark reference to Jacks Canyon dam
  CC-122-S entirely revised to reflect information for Mario's Tank, not Jacks Canyon Dam

Hard copies of the above sheets were manually inserted to replace the corresponding unrevised sheets which are described below.
The original unrevised sheets are in H:\data\03\m036410\dale\Clrabs.xls

For future changes, the original unrevised file needs to be updated with the above changes before future changes are done.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- S	39-03-89390		Mario's Tank	0.69	0.23
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
			Total	604.903	912.163

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land S= State lease land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease lands)
2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-121-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89389			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-) 90528			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		23.94 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Larry's (Robin's) Tank				
Priority Date:	Oct.15, 1978				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89389 is closest to being correct.
The filings call this facility Larry's Tank, but the USGS quad map labels it Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-122-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89390			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90526			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.69 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.23 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mario's Tank				
Priority Date:	Oct.15, 1983				

Comments:
This abstract replaces a previous version that claimed water for the old Jacks Canyon Dam.
Mario's Tank lies within the pool area of the old Jacks Canyon Dam.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- S	39-03-89390		Mario's Tank	0.69	0.23
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
			Total	604.903	912.163

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease lands)

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- DS	39-03-89390		Jacks Canyon Dam (Mario's Tank)	123.00	123.00
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
			Total	727.213	1034.933

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land S= State lease land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease lands)
2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-122- DS	39-03-89390		Jacks Canyon Dam (Mario's Tank)	123.00	123.00
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
			Total	727.213	1034.933

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land S= State lease land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease lands)
2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-051-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86502			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-102004, 36-000358			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		8	18N	17E
	NW, NE, SE		16	18N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec 30, 1853				

Comments:
Instream stockwater use.
Although SLD filing 36-000358 is not considered by the SLD to form the basis of claim for 39-03-86502, it is included herein because it generally covers the same POD & POU as 36-102004 and 39-03-86502.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-052-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86506			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000320			
Type of Uses:	Stockwater, Recreation/Fish Wildlife				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	NENE		22	18N	17E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Water is diverted at Chevelon Creek Dam into a ditch. The Place of Use is a dug-out wide area on the ditch, but is not considered a stockpond.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-85497			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90533			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.74 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	David's Tank				
Priority Date:	Apr.15, 1985				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-002-D	COMBINED WITH CC-135-D
Applicable Adjudication Filings:	Filed by ranch:	39-03-85498
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Bob's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-003-S	COMBINED WITH CC-108-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-85499
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Bruce's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-004-DS			
Applicable Adjudication Filings:		Filed by ranch:	39-03-87911		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	55-613987		
		Filed by SLD:			
Type of Uses:		Stockpond			
Source of Supply:		Groundwater (Hotcake Well)			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	Lot 1 (SESE)	33	17N	14E
Place of Use (if different from POD):					
	Tank	Lot 4 (NWNW)	3	16N	14E
		Lot 4 (SWSW)	34	17N	14E

Flow Rate:	35 or less	GPM	------	CFS
Annual Volume of Use:	------	Gal	1.91	AF
Storage Volume or Reservoir Capacity:	------	Gal	0.29	AF
Irrigated Acres (if irrigation use):	------	Ac		
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1933			

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Storage volume estimated from aerial photos.
Location of well on aerial photos differs slightly from that shown on USGS quad maps.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-005-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87912			
	Filed by SLD:	39-03-86474			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613986, 55-613989			
	Filed by SLD:	55-614300			
Type of Uses:	Domestic, Stockpond, Wildlife				
Source of Supply:	Groundwater (Rock Station Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 3 (NESE)		36	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	------ CFS		
Annual Volume of Use:	------	Gal	2.06 AF		
Storage Volume or Reservoir Capacity:	------	Gal	1.00 AF		
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Dec. 30, 1853				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Annual use involves 1.2 AF domestic use and .86 AF stock use

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87913			
	Filed by SLD:	39-03-86385			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021624, 36-021625			
	Filed by SLD:	36-000360			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW, SWSW		24	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.85 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Instream use--aerial photos show no stockpond as suggested by claim 39-03-87913.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-007-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87914			
	Filed by SLD:	39-03-86388			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021626			
	Filed by SLD:	36-000361			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2SE, SENE		36	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 30, 1853				

Comments:
Instream use--aerial photos indicate no stockpond as suggested by claim 39-03-87914.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87915			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021627			
	Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to Feb. 1915				

Comments:
Instream use-- aerial photos indicate no stockpond as suggested by claim 39-03-87915.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87916			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021640			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		9	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.27 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.27 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pump Ranch Tank				
Priority Date:	Apr.1, 1947				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87917			
	Filed by SLD:	39-03-86473			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021628			
	Filed by SLD:	36-101550			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NE,SWNE,SENW,N2SW		36	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 30, 1853				

Comments:
Instream use--aerial photos indicate no stockpond as suggested by 39-03-87917.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-011-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87918			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021631, 38-021660			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 11, 13		3	16N	13E
Place of Use (if different from POD):					
Pond	Lots 11,14		3	16N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		33.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Dick Heart Tank				
Priority Date:	1913				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-012-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87919			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021630			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NWNW		17	17N	15E
Place of Use (if different from POD):					
Pond	NW		17	17N	15E
	E2NE		18	17N	15E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		99.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		173.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Moonlight Bay Reservoir				
Priority Date:	Prior to Feb.1915				

Comments:
Reservoir capacity estimated from USGS quad maps and aerial photos.
Reservoir capacity amount does not include the capacity of adjacent Upper & Middle Moonlight Tanks (CC-013-D & CC-036-D).

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-013-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87920			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021638			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSWNW		17	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.51 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.51 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Moonlight Tank				
Priority Date:	Prior to 1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-014-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87921, 39-03-87930			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021658, 38-021659			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dams	Lots 4,5		1	16N	14E
Place of Use (if different from POD):					
Ponds	Lots 4,5		1	16N	14E
	Lot 8		2	16N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		15.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.36 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Simms Tank and Silt Trap				
Priority Date:	Prior to 1957				

Comments:
Annual use and capacity are the combined amounts for the main tank and silt trap which acts as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-015-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87922			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021645			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)		35	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.21 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.21 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Middle Eckles Tank				
Priority Date:	Jul. 1968				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-016-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87923			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021637			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		21	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	King Tank				
Priority Date:	Nov. 22, 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-017-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87924			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021641			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Haight-Lovelady Tank				
Priority Date:	Prior to 1930				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87925			
	Filed by SLD:	39-03-86486			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021642			
	Filed by SLD:	36-001347, 38-091310			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.55 AF	
Storage Volume or Reservoir Capacity:		------ Gal		9.55 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-019-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87926			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021643			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)		35	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.37 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.37 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower Eckles Tank				
Priority Date:	Jul. 1968				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87927			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021644			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4		1	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.39 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.39 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Eckles Tank				
Priority Date:	Jul. 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-021-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87928			
	Filed by SLD:	39-03-86282			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021647			
	Filed by SLD:	36-001212, 38-090745			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSW		12	16N	13E
Place of Use (if different from POD):					
Pond	SWSW,NWSW		12	16N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.31 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.31 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Elk Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-022-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87929			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021639			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		3	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.83 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Horse (Horse Pasture) Tank				
Priority Date:	Fall 1968				

Comments:
The USGS quad map labels this facility Horse Pasture Tank while the filings call it Horse Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-023-DS	COMBINED WITH CC-014-DS
Applicable Adjudication Filings:	Filed by ranch:	39-03-87930
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Simms Silt Trap	
Priority Date:		

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87931			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021636			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cedar Tree Tank				
Priority Date:	Spring 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-025-S	COMBINED WITH CC-031-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-87932
	Filed by SLD:	39-03-86386
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Autry Silt Trap	
Priority Date:		

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-026-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87933			
	Filed by SLD:	39-03-86373			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021650			
	Filed by SLD:	36-001268, 38-090746			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.05 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Chauncey Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-027-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87934			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	Permit 33-78405			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 2,3		5	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		72.73 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Rincon Tank				
Priority Date:	Jul.1945				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-028-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87935
	Filed by SLD:	39-03-86384
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021655
	Filed by SLD:	36-001279, 38-090737
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2NW	12	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.44 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.44 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Sloppy Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-029-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87936			
	Filed by SLD:	39-03-86487			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021653			
	Filed by SLD:	36-001348, 38-091311			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.06 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.06 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-030-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87937			
	Filed by SLD:	39-03-86375			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021652			
	Filed by SLD:	36-001270, 38-090738			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.89 AF	
Storage Volume or Reservoir Capacity:		------ Gal		9.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Fanning Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-031-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87938, 39-03-87932			
	Filed by SLD:	39-03-86387, 39-03-86386			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021656, 38-021657			
	Filed by SLD:	36-001281, 38-090744, 36-001280, 38-090747			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE, NESW		28	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		19.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		19.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Autry Tank and Silt Trap				
Priority Date:	Prior to 1884				

Comments:
The annual use and capacity amounts are the combined amounts for the main tank and silt trap which is considered as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-032-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87939			
	Filed by SLD:	39-03-86283			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021646			
	Filed by SLD:	36-001213, 38-091242			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		22	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Hidden Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-033-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87940			
	Filed by SLD:	39-03-86380			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021648			
	Filed by SLD:	36-001275, 38-091282			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		15.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower Gravel Pit Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-034-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87941			
	Filed by SLD:	39-03-86286			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021649			
	Filed by SLD:	36-001215, 38-095349			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.81 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.81 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Birch Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-035-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87942			
	Filed by SLD:	39-03-86381			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021651			
	Filed by SLD:	36-001276, 38-091283			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWSE		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.85 AF	
Storage Volume or Reservoir Capacity:		------ Gal		9.85 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Gravel Pit Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-036-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87943			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021654			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.39 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.39 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Middle Moonlight Tank				
Priority Date:	Prior to 1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-037-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87944			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613988			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Winslow Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		28	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Aug. 20, 1969				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual volume and storage amounts estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87945			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613983			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Tin Ranch Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		23	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	------ CFS		
Annual Volume of Use:	------	Gal	1.50 AF		
Storage Volume or Reservoir Capacity:	------	Gal	0.13 AF		
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1933				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-039-O				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87946			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613984			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Boundary Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		19	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	------ CFS		
Annual Volume of Use:	------	Gal	1.60 AF		
Storage Volume or Reservoir Capacity:	------	Gal	0.10 AF		
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1930				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and storage volume was estimated from other similar wells on the Clear Creek Ranch.
This well, which lies on off-ranch private land, is shared by the Clear Creek Ranch and the Bar-T-Bar Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87947			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613985			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #12)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		17	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	------ CFS		
Annual Volume of Use:	------	Gal	1.91 AF		
Storage Volume or Reservoir Capacity:	------	Gal	0.50 AF		
Irrigated Acres (if irrigation use):	------	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Prior to 1940				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from similar wells on the Clear Creek Ranch.
Storage amount estimated from aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-041-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87948			
	Filed by SLD:	39-03-86289			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021629			
	Filed by SLD:	36-000359			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Clear Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Instream pump	SESENE		16	16N	14E
Place of Use (if different from POD):					
Tank	NWSENE		16	16N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.84 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.04 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Dec. 20, 1853	

Comments:
Pump is called Pump Ranch pump.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-042-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87949		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	East Sunset Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	31	17N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	2 GPM	------ CFS
Annual Volume of Use:	------ Gal	3.23 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1940	

Comments:
Annual use estimated from flow rate.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89313			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064280			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)		1	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.19 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Model T Tank Section 1				
Priority Date:	Jun. 1, 1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-044-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89314			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090467			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)		1	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		8.62 AF	
Storage Volume or Reservoir Capacity:		------ Gal		8.62 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Model T Tank Section 2				
Priority Date:	Jun. 1, 1955				

Comments:
Annual amount estimated to equal tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-045-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89315			
	Filed by SLD:	39-03-86466			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064264			
	Filed by SLD:	36-001332, 36-101679			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		4	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.69 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	(Old) Coon Tank				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89315 is closest to being correct.
Filing 38-090685 was also filed by the SLD but was withdrawn because the tank was constructed prior to 1919.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-046-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89316			
	Filed by SLD:	39-03-86465			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064245			
	Filed by SLD:	36-001331, 38-091305			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		4	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.16 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.67 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	New Coon Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-090700 was also filed by the SLD but it was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064245 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-047-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89317			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090458, 55-606818			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #11)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		9	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.476 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #11 Tank				
Priority Date:	1935				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89318			
	Filed by SLD:	39-03-91635			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90546			
	Filed by SLD:	36-101739			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		315,750 Gal		0.97 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.32 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #3 Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-049-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89319
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606822
	Filed by SLD:	
Type of Uses:	Domestic, Stockpond	
Source of Supply:	Groundwater (Hartman (House) Well)	

Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	NWNE	13	18N	14E
Place of Use (if different from POD):					
	Tank	NWNE	13	18N	14E
	House	Lot 1 (NENE)	13	18N	14E

Flow Rate:	10 GPM	------ CFS
Annual Volume of Use:	------ Gal	2.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.075 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	House Well Tank	
Priority Date:	1935	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
These facilities lie on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-050-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89320			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90547			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		13	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,751 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.38 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Loyd's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-051-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89321			
	Filed by SLD:	39-03-86467			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064249			
	Filed by SLD:	36-001333, 38-090698			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		14	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Ray's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-052-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89322			
	Filed by SLD:	39-03-86468			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 161			
	Filed by SLD:	36-001334, 38-095417			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NENW		20	18N	14E
Place of Use (if different from POD):					
Pond	E2NW		20	18N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		19.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		19.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Rowlan (Rawlin's) Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-090459 was also filed by the ranch but it was withdrawn.
The ranch filings and USGS quad call this Rowlan Tank and the SLD filings call it Rawlin's Tank

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-053-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89323			
	Filed by SLD:	39-03-86469			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064251			
	Filed by SLD:	36-001335, 36-101680			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		22	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		11.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.31 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Prairie Dog Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-091306 was also filed by the SLD but was withdrawn because the tank was built before 1919.
Tank capacity is based on calculations attached th the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-054-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89324			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90548			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Immanuel's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-055-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89325			
	Filed by SLD:	39-03-86470			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087869			
	Filed by SLD:	36-001336, 38-090704			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		24	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.38 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Roadway Tank #2				
Priority Date:	Prior to 1884				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-056-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89326			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087870			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.67 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.61 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Roadway Tank #1				
Priority Date:	May 31, 1971				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-057-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89327			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064250			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SESW		25	18N	14E
Place of Use (if different from POD):					
Pond	SESW,SWSW		25	18N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Karen's Tank				
Priority Date:	Jun.1, 1971				

Comments:
Tank need rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-058-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89328			
	Filed by SLD:	39-03-86471			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064248			
	Filed by SLD:	36-001337, 38-090684			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		34	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.99 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Highway (Clay's) Tank				
Priority Date:	Prior to 1884				

Comments:
Claim 39-89328 calls this tank Clay's Tank, while the other filings refer to it as Highway Tank.
The tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-059-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89329			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064255			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		31	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.04 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.06 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Old Hobo Tank				
Priority Date:	Jun. 1, 1930				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-060-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89330			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064273			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 8		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.01 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Fisher Tank				
Priority Date:	May 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-061-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331			
	Filed by SLD:	39-03-86472			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90529, 38-090468, 38-064247			
	Filed by SLD:	36-001338, 38-090703			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE, NENW		34	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		16.88 AF	
Storage Volume or Reservoir Capacity:		------ Gal		16.88 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Highway Tanks #1 & #2 (Clay's Tank)				
Priority Date:	Prior to 1884				

Comments:
Highway Tanks #1 and #2 are considered one overall system in this abstract.
The ranch filings (except 38-064247) call these tanks Highway Tanks #1 and #2, while the SLD filings and ranch filing 38-064247 call it Clay's Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-86472 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-062-S	COMBINED WITH CC-061-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Highway Tank #2	
Priority Date:		

Comments:
Highway Tanks #1 and #2 are considered one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-063-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89332			
	Filed by SLD:	39-03-86475			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064278			
	Filed by SLD:	36-001339, 38-091307			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		4	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		------ Gal		12.05 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Model A Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-064-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89333		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	55-606825		
		Filed by SLD:			
Type of Uses:		Stockpond			
Source of Supply:		Groundwater (well)			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	SWSE	32	19N	15E
Place of Use (if different from POD):					
	Tank	SWSE	32	19N	15E
		Lot 2 (NWNE)	5	18N	15E

Flow Rate:	20 GPM	------ CFS
Annual Volume of Use:	------ Gal	1.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Windmill Well #8 Tank	
Priority Date:	1927	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
The annual use amount is estimated from other similar wells on the Clear Creek Ranch.
The tank is on the section line common to sections 32 and 5.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-065-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89334			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90539			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		41,057 Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mediator Tank				
Priority Date:	Jun. 15, 1983				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-066-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89335			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90538			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		62,563 Gal		0.19 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.06 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pennsylvania Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-067-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89336			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90535			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		37,147 Gal		0.11 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Alpha Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-068-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89337			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90540			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		45,945 Gal		0.14 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.05 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Daniel's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-069-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89338			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90541			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		66,474 Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.07 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Hoskin's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-070-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89339			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90542			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		28,349 Gal		0.09 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.03 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mathew's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-071-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89340			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90543			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		18,574 Gal		0.06 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.02 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Omega Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-072-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89341			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90544			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		156,408 Gal		0.48 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.16 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #1				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-073-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89342			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90545			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.56 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #2				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-074-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89343			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90537			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		50,833 Gal		0.16 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.05 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mark's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-075-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89344			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90536			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		29,327 Gal		0.09 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.03 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Luke's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-076-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89345			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90534			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		40,080 Gal		0.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Branch Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-077-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89346			
	Filed by SLD:	39-03-86480			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064244			
	Filed by SLD:	36-001344, 38-090696			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		16	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.90 AF	
Storage Volume or Reservoir Capacity:		------ Gal		11.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bar Pitt Tank				
Priority Date:	Dec.30,1853				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-078-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89347			
	Filed by SLD:	39-03-86481			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064281			
	Filed by SLD:	See notes			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		18	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Headquarters (HQ) Tank				
Priority Date:	Prior to 1884				

Comments:
Filings 36-001345 and 38-090705 were also filed by the SLD but were withdrawn. In addition, the SLD has indicated that it will also withdraw its adjudication filing for this facility because it is breached and will not be rebuilt. However the tank capacity in this abstract is based on the SLD adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-079-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89348			
	Filed by SLD:	39-03-86485			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090457, 55-606823			
	Filed by SLD:	55-614301			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Highway Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well	SWNW		30	18N	15E
Place of Use (if different from POD):					
Tank	NWSW		30	18N	15E
Flow Rate:		15 GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.74 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.074 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Highway Well Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Filings 39-03-89348 and 38-090457 indicate the source is both surface and groundwater, however the aerial photos indicate the only source is a well.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-080-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89349			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064257			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 1,2 (N2NE)		1	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Jun.1, 1958				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-081-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89350			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090466, 55-606820			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and groundwater(Well #7)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well and pond	SWSW		13	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.235 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #7 Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-082-SO				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89351			
	Filed by SLD:	39-03-86462			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064267			
	Filed by SLD:	36-001328, 36-101678			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		21	18N	13E
	NWNE		28	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		8.33 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.86 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Rock House Tank				
Priority Date:	Prior to 1884				

Comments:
SLD documents indicate this facility is shared with the adjacent lease holder.
Filing 38-090661 was also filed by the SLD but was withdrawn because the tank was built prior to 1919.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064267 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-083-O Abstract deleted--not associated with Clear Cr. Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89352
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 347
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	King Tank	
Priority Date:		

Comments:
The Hopi ranch manager indicates this tank is not used by the ranch.
This tank is sometimes confused with Upper King Tank (CC-140-S) which some people also call King Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-084-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89353			
	Filed by SLD:	39-03-86464			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064256			
	Filed by SLD:	36-001330, 38-091304			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SE, NESW		36	18N	13E
Place of Use (if different from POD):	W2SE		36	18N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.72 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	New Hobo Tank				
Priority Date:	Dec. 30, 1853				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-085-O Abstract deleted--not associated with Clear Cr.Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89354
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of : Points of Diversion (POD):	Qtr Qtr	Sec T R
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Tucker Tank Well Tank	
Priority Date:		

Comments:
This well and tank are just outside the ranch lease boundary on privately owned land, and are/or were apparently used by the private landownwer.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-086-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89355			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90551			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		13	19N	14E
Place of Use (if different from POD):	SESW,SWSE		13	19N	14E
	NENW, NWNE		24	19N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.32 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank (Ditch)				
Priority Date:	Mar.1, 1983				

Comments:
This facility lies on the section line between sections 13 and 24.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-087-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89356			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064262			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSE		20	19N	14E
Place of Use (if different from POD):					
Pond	SWSE,SESW		20	19N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	North Corner Tank				
Priority Date:	Jun. 1, 1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-088-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89357			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606824			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #1)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		21	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.74 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #1 Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-089-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89358			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90520			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		27.07 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Indian Tank				
Priority Date:	Jun.1, 1935				

Comments:
Filing 38-064265 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89358 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-090-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89359			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90521			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SW		21	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		17.25 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Squaw Tank				
Priority Date:	May 1, 1955				

Comments:
Filing 38-064246 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89359 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-091-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89360		
		Filed by SLD:	39-03-86565		
Applicable Pre-adjudication Filings:		Filed by ranch:	38-064261		
		Filed by SLD:	36-001393, 38-091329		
Type of Uses:		Stockpond, Wildlife			
Source of Supply:		Tucker Flat Wash			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Dam	SWSWNE,SESENW	24	19N	14E
Place of Use (if different from POD):					
	Pond	SWNE,SENW,NWSE, & NESW	24	19N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	5.60 AF
Storage Volume or Reservoir Capacity:	------ Gal	12.60 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Tucker Tank West	
Priority Date:	Prior to 1884	

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064261 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-092-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89361			
	Filed by SLD:	39-03-86566			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064243			
	Filed by SLD:	36-001394, 38-091330			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWNE		24	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.73 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank East				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-093-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89362		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank East			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2SWNE	24	19N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.95 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank East Overflow			
Priority Date:	May 1, 1955			

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-094-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89363		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWNE	24	19N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.293 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.293 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank Middle			
Priority Date:	May 1, 1955			

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-095-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89364		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank West			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESENW	24	19N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.077 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.077 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank West Overflow			
Priority Date:	May 1, 1955			

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-096-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89365			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090469			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		21	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.965 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.965 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #1 Tank (Soil)				
Priority Date:	Jul. 1, 1975				

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-097-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89366			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064259			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Rabbit Tank				
Priority Date:	Jun.15, 1975				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-098-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89367			
	Filed by SLD:	39-03-86569			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-027013			
	Filed by SLD:	36-001395, 38-088817			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		16	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.38 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Tamerack (Right of Way) Tank				
Priority Date:	Dec. 30, 1853				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.
Filing 38-027013 calls this facility Right of Way Tank while the rest of the filings call it Tamerack Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-099-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89368			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064263			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		31	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		11.27 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	North Tank				
Priority Date:	Jul. 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-100-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89369			
	Filed by SLD:	39-03-91764			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90527			
	Filed by SLD:	36-104874			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		36	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.78 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.80 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #4				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-101-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89370			
	Filed by SLD:	39-03-86383			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064258			
	Filed by SLD:	36-001278, 38-090697			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		4	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.18 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bull Pasture Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-102-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89371			
	Filed by SLD:	39-03-91636			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90524			
	Filed by SLD:	36-101740			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NESW		6	17N	14E
Place of Use (if different from POD):					
Pond	E2SW		6	17N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.38 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Father's (Little John's) Tank				
Priority Date:	Prior to 1884				

Comments:
Both the ranch and SLD filings call this facility Father's Tank, but the USGS quad map labels it Little John's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-103-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89372			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064252			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		7	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.29 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little John's Tank				
Priority Date:	Jun. 1, 1970				

Comments:
The USGS has mislabled a different pond as Little John's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-104-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89373			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90522			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.95 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Phil's Tank				
Priority Date:	Oct.15, 1984				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-105-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89374			
	Filed by SLD:	39-03-91633			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90525			
	Filed by SLD:	36-101737, 38-095499			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		18	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.95 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Brett's (Lynn's) Tank				
Priority Date:	Prior to 1884				

Comments:
Both the ranch and SLD filings call this facility Brett's Tank, but the USGS quad map labels it Lynn's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-106-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89375			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90549			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		3	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.14 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	LTMV Tank				
Priority Date:	Oct. 1, 1983				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-107-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376			
	Filed by SLD:	39-03-86372			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606819			
	Filed by SLD:	55-614285			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #10)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		12 GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.74 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.09 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #10 Tanks				
Priority Date:	Jun.20, 1910				

Comments:
Water from well is stored in adjacent tanks and/or drinkers.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-108-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376, 39-03-85499			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90530			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.07 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bruce's Tank				
Priority Date:	Apr.29, 1985				

Comments:
The ranch has filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-109-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89377			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 346			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		5	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.41 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.41 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Porcupine (Red Hill) Tank				
Priority Date:	Dec.13, 1929				

Comments:
Tank capacity is based on calculations attached to the ranch adjudication claim, and represents the total capacity of a 2-pond connected system.
Filing 38-090460 was also filed by the ranch but was withdrawn.
Annual use amount assumed equal to tank capacity.
Filing CWR 346 calls this facility Red Hill Tank, but the other filings and the USGS quad map call it Porcupine Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-110-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89378		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606821		
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Groundwater ((West)Sunset Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)	7	17N	13E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	12 GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.59 AF		
Storage Volume or Reservoir Capacity:	------ Gal	3.59 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	West Sunset Well Tank			
Priority Date:	Aug.7, 1953			

Comments:
Water from well is stored in adjacent tanks and/or drinkers.
Assume annual use amount is equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-111-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89379			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064268			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		9	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.96 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.35 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Sunset Tank				
Priority Date:	Apr.1, 1972				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-112-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89380			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090461			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.136 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.136 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Blazer Tank				
Priority Date:	Nov.1, 1968				

Comments:
Needs rehabilitation.
Assume annual use amount is equal to pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-113-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89381			
	Filed by SLD:	39-03-91765			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90550			
	Filed by SLD:	36-104875			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.13 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Carolyn's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-114-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89382			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064254			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENENW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.37 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lynn's Tank				
Priority Date:	May 1, 1970				

Comments:
The USGS quad has mislabeled a different pond as Lynn's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-115-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89383			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90523			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.35 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Joyanna's Tank				
Priority Date:	Oct.7, 1984				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-116-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89384			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064253			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.46 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Robin's Tank				
Priority Date:	Jun.1,1968				

Comments:
The USGS quad map has mislabeled a different pond as Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-117-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89385			
	Filed by SLD:	39-03-91634			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064276			
	Filed by SLD:	36-101738, 38-095500			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		20	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.31 AF	
Storage Volume or Reservoir Capacity:		------ Gal		11.01 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Red Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-118-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89386			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090463			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.399 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.399 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jul.15, 1942				

Comments:
The filings indicate this facility to be a stockpond, however aerial photo analysis and the ground photo attached to the claim show it to be ponded water in Jacks Canyon and hence instream use.
Annual use is assumed to be equal to the claimed storage amount.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-119-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89387			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064277			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NW		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.64 AF	
Storage Volume or Reservoir Capacity:		------ Gal		12.29 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower Red Tank				
Priority Date:	Jul.15, 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-120-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89388			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090462			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.63 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.63 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Dirt Dike				
Priority Date:	Jul.15, 1942				

Comments:
Annual use amount is assumed to be equal to the pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-121-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89389			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-) 90528			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff plus supplemental water from Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		23.94 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Larry's (Robin's) Tank				
Priority Date:	Oct.15, 1978				

Comments:
The full capacity of this pond is not realized until water from Jacks Canyon Dam (CC-122-DS) fills and overflows into Larry's Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89389 is closest to being correct.
The filings call this facility Larry's Tank, but the USGS quad map labels it Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-122-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89390			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90526			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSWSW		13	17N	13E
	NWNWNW		24	17N	13E
Place of Use (if different from POD):					
Reservoir	SWSW		13	17N	13E
	E2NE, SWNE, NWSE		23	17N	13E
	NWNW		24	17N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		123.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		123.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Jacks Canyon Dam (Mario's Tank)				
Priority Date:	Prior to 1955 (date of 15' USGS quad map showing breached dam)				

Comments:
Jacks Canyon Dam is an old dam in Jacks Canyon that is currently breached.
The above listed applicable filings apply to Mario's Tank, a small pond which lies in the pool area created by Jacks Canyon Dam if it were rebuilt.
The above listed reservoir capacity of Jacks Canyon Dam was determined by planimetering reservoir contours on a USGS quad map for a maximum reservoir depth of 21 feet, the approximate height of the old dam. The capacity has been reduced by the claimed storage for Larry's Tank (CC-121-S) which is inundated by Jacks Canyon Dam during high water levels.
The ranch also filed a historic irrigation claim 39-03-91912 covering this same old dam, however irrigation is not claimed in this abstract.
Annual use is herein assumed to be equal to the reservoir capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-123-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89391			
	Filed by SLD:	39-03-86374			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090464			
	Filed by SLD:	36-001269, 38-090701			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.33 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.85 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Dark (Little) Tank				
Priority Date:	Prior to 1884				

Comments:
The ranch filings call this facility Dark Tank while the SLD filings call it Little Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-124-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89392			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064271			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.11 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Tank				
Priority Date:	Jun.1, 1935				

Comments:
This facility is not to be confused with CC-123-S which the SLD also calls Little Tank.
Tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-125-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89393			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090465			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.413 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.413 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Oct.7, 1942				

Comments:
The filings claim this facility as a stockpond, however aerial photo analysis and ground photos attached to the claim indicate it is a ponded area in Jacks Canyon and hence instream use. Annual use is assumed to equal the claim pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-126-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89394			
	Filed by SLD:	39-03-86377			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064275			
	Filed by SLD:	36-001272			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		28	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		22.24 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Middle Red Tank West				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064275 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-127-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89395		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESENW	28	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	12.23 AF
Storage Volume or Reservoir Capacity:	------ Gal	12.23 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Middle Red Tank East	
Priority Date:	Jun.1, 1935	

Comments:
Annual use assumed to be equal to pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-128-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89396			
	Filed by SLD:	39-03-86378			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064274			
	Filed by SLD:	36-001273, 38-090699			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		32	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.77 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mule Tank				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064274 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-129-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89397			
	Filed by SLD:	39-03-86379			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064269			
	Filed by SLD:	See notes			
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1		5	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Echols Tank				
Priority Date:	Jun. 1, 1954				

Comments:
The SLD has withdrawn filings 36-001274 and 38-090687 and plans to withdraw 39-03-86379 because Echols Tank actually lies on non-State land in section 5 rather than section 32, T17N, R13E as indicated on the filings.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-130-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89398			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064272			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		7.23 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Caliche Tank				
Priority Date:	Jun.1, 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-131-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89399			
	Filed by SLD:	39-03-86382			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087868			
	Filed by SLD:	36-001277, 38-090702			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.80 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.80 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Grandpa (Agape) Tank				
Priority Date:	Prior to 1884				

Comments:
Claim 39-89399 calls this facility Agape Tank, while the rest of the filings call it Grandpa Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-087868 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-132-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89400			
	Filed by SLD:	39-03-86281			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064270			
	Filed by SLD:	36-001211, 38-090695			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		8	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Burch Tank				
Priority Date:	Prior to 1884				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-133-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89401			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064260			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		18	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Railroad Tank				
Priority Date:	Jun.1, 1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-134-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89402			
	Filed by SLD:	39-03-86570			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064279			
	Filed by SLD:	36-001396, 38-090686			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		32	19N	15E
	NWNW		33	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		8.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big Johns Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-135-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89403, 39-03-85498			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90531			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2NENW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		323,570 Gal		0.99 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.33 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bob's Tank				
Priority Date:	Apr. 22, 1985				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-136-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89404			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90532			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		18	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		165,206 Gal		0.51 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.17 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mesa Tank				
Priority Date:	Apr. 24, 1983				

Comments:
Claim 39-03-89404 indicates the source of water is a well, however the existence of a well could not be verified. The CWR, filed after the adjudication claim, indicates the source is surface water.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-137-O Abstract deleted--not associated with Clear Cr. Ranch.	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89405
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-500987
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Sunset Estates Well Tank	
Priority Date:		

Comments:
This facility lies on property not associated with the current Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-138-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86288		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000359		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Clear Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, SESW	10	16N	14E
	SENE, E2SE	16	16N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.85 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Instream use.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-139-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86376			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-001271, 38-090748			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.39 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Old Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-140-O				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86463			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064266			
	Filed by SLD:	36-001329, 38-091303			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	E2NW		32	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper King Tank (King Tank)				
Priority Date:	Prior to 1884				

Comments:
The SLD indicates this tank is shared use by the Clear Creek Ranch and the adjacent lease holder.
The SLD filings call this facility Upper King Tank while the ranch filing calls it King Tank. It is also called King Tank by the Hopi ranch manager, and should not be confused with another tank about one-half mile downstream in section 29 also known as King Tank (CC-083-O).

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-141-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86484		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000362		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Jacks Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, S2SW	30	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.85 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Instream use.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-142-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	4	17N	13E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.90 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.90 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to Apr.28, 1992			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-143-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	12	18N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	2.50 AF		
Storage Volume or Reservoir Capacity:	------ Gal	2.50 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-144-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-145-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NW portion of Lot 2	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.60 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.60 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-146-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2 portion of Lot 2	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.30 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Sep.22, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-147-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2 portion of Lot 3	5	16N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.20 AF		
Storage Volume or Reservoir Capacity:	------ Gal	3.20 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-148-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE	19	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		------ GPM	------ CFS	
Annual Volume of Use:		------ Gal	2.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal	2.00 AF	
Irrigated Acres (if irrigation use):		------ Ac		
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-149-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	19	18N	15E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.30 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Apr. 28, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-150-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	7	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.07 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.07 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-001- D	39-03-84303			Combined with HT-010-D & HT-011-D		
HT-002- S	39-03-84304	39-03-86553		Charlebois Tank #1	3.36	3.33
HT-003- S	39-03-84304	39-03-86554		Charlebois Tank #2	3.36	3.33
HT-004- S	39-03-84304	39-03-86555		Charlebois Tank #3	1.56	0.88
HT-005- DS	39-03-84305	39-03-86634		Babbitt Tank #1	4.60	4.60
HT-006- S	39-03-84305	39-03-86635		Babbitt Tank #2	2.13	1.88
HT-007- D	39-03-84306			Gorton Tank #1	1.95	0.65
HT-008- D	39-03-84306			Gorton Tank #2	2.24	1.86
HT-009- S	39-03-84306			Gorton Tank #3	2.24	1.36
HT-010- D	39-03-84307			Casner Tank #1	2.24	0.78
HT-011- D	39-03-84307			Casner Tank #2	2.24	1.90
HT-012- U	39-03-84359		39-03-90813	Horse Lake	0.92	
HT-013- U	39-03-84360		39-03-90797	Als Lake	0.92	
HT-014- U	39-03-84361			Ashurst Lake	0.92	
HT-015- U	39-03-84362		39-03-90831	Ducksnest Lake	0.92	
HT-016- U	39-03-84363			Coconino Dam & Reservoir	0.92	
HT-017- DU	39-03-84364		39-03-90771	Dry (Grass Flat) Lake	0.92	
HT-018- U	39-03-84365		39-03-90769	Perry Lake	0.92	
HT-019- U	39-03-84366		39-03-90811	Indian Lake	0.92	
HT-020- U	39-03-84367		39-03-90798	Pickett Lake	0.92	
HT-021- U	39-03-84368		39-03-90800	Post Lake	0.92	
HT-022 U	39-03-84369		39-03-90818	Deep Lake	0.92	
HT-023- U	39-03-84370		39-03-90801	Potato Lake	0.92	
HT-024- D	39-03-84371			Hart HQ Well	5.23	0.23
HT-025- D	39-03-84372			Courthouse Well	3.36	0.08
HT-026- D	39-03-84373			Walters (#1) Well	3.36	0.08
HT-027- D	39-03-84374			Hard Luck Well	3.36	0.08
HT-028- D	39-03-84375			Bull Well	3.36	0.08
HT-029- S	39-03-84376	39-03-86633		Oil Well	3.36	0.08
HT-030- D	39-03-84377			Reservation Well	3.36	0.08
HT-031- D	39-03-84378			Bumpy Road Well	3.36	0.08
HT-032- D	39-03-84379			Walters #2 Well	3.36	0.08
HT-033- D	39-03-84380			Sunshine Well	3.36	0.08
HT-034- D	39-03-84381			Anderson Well	3.36	0.15
HT-035- O	39-03-84382			Abstract deleted-- no longer associated with ranch		
HT-036- S	39-03-84383	39-03-86551		Elliott Tank	12.90	12.90
HT-037- D	39-03-84384			Walters Tank	1.12	0.44
HT-038- D	39-03-84385			Lute Hart Tank	2.24	3.20
HT-039- D	39-03-84386			Sinkhole Tank #1	2.24	4.09
HT-040- D	39-03-84387			Chimney Tank	2.24	1.13
HT-041- D	39-03-84388			Courthouse Tank	0.78	0.26
HT-042- D	39-03-84389			Boyd Reid Tank	2.24	1.70
HT-043- D	39-03-84390			Prosperity Tank	2.24	0.98
HT-044- D	39-03-84391			66 Tank #1	1.12	0.50
HT-045- D	39-03-84392			66 Tank #2	1.12	0.60
HT-046- S	39-03-84393	39-03-86631,2		Reservation Tank & Silt Trap	15.29	15.29
HT-047- O	39-03-84394			Sunshine Tank	0.67	2.90
HT-048- S	39-03-84395	39-03-86557		Corner Tank	4.66	4.66
HT-049- S	39-03-84396	39-03-86552		Eli Tank	22.23	22.23
HT-050- DS	39-03-84397	39-03-86550		Big Anderson Tank	61.04	61.04
HT-051- S	39-03-84398	39-03-86638		Phone Line Tank	12.66	12.66
HT-052- U	39-03-84399		39-03-91106	Johns Tank	0.92	1.64
HT-053- U	39-03-84400		39-03-91126	Little Elk (Redone) Tank	0.92	1.15
HT-054- U	39-03-84401		39-03-91147	Sinkhole Tank #2 (Section 23 Tank)	0.92	1.40
HT-055- U	39-03-84402		39-03-91117	Newman Tank	0.92	0.92
HT-056- U	39-03-84403		39-03-91120	Pine Grove #1 Tank	0.92	0.96

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-057- U	39-03-84404		39-03-91118	Otteson Tank	0.75	0.59
HT-058- U	39-03-84405		39-03-91125	Railroad Tank	0.92	2.98
HT-059- U	39-03-84406		39-03-91240	Morman Canyon Tank #1	0.92	1.98
HT-060- U	39-03-84407		39-03-91238	Morgan Tank	1.12	0.95
HT-061- U	39-03-84409		Pending	Snag Tank	1.12	1.18
HT-062- U	39-03-84410		39-03-91095	Casner (Corner) Tank	1.38	0.48
HT-063- D	39-03-84411			Crossroads Tank	3.36	3.64
HT-064- D	39-03-84412			Wagon Box Tank	3.36	11.07
HT-065- S		39-03-86636		Cement Tank	5.46	5.46
HT-066- O		39-03-86637		Abstract deleted-- no longer associated with ranch		
HT-067- U			39-03-90802	Ashurst Spring	0.25	
HT-068- U			39-03-90803	Elliott Spring	0.30	
HT-069- U			39-03-90805	Horse Lake #2	0.22	
HT-070- U			39-03-90806	Little Ashurst Lake	0.22	
HT-071- U			39-03-90808	McDermitt Lake	0.15	
HT-072- U			39-03-90809	Long Lake	0.15	
HT-073- U			39-03-90810	Indian Lake	0.15	
HT-074- U			39-03-90819	Dead Horse Lake & Tank	0.15	1.83
HT-075- U			39-03-90822	Antelope Lake	0.22	
HT-076- U			39-03-90824	Boot Lake	0.15	
HT-077- U			39-03-90825	Breezy Lake	0.22	
HT-078- U			39-03-90829	Ducks Lake	0.20	
HT-079- U			39-03-90830	East McDermitt Lake	0.20	
HT-080- U			39-03-90832	Elliott Lake	0.30	
HT-081- U			39-03-90834	Boot Lake Spring	1.23	
HT-082- U			39-03-90837	Morman Spring	0.44	
HT-083- U			39-03-90846	Exploration Well	0.10	
HT-084- U			39-03-91140	Walnut Creek Tank	0.22	1.54
HT-085- U			39-03-91233	Long Lake Tank	0.16	2.30
HT-086- U			39-03-91234	Low Tank	0.22	0.65
HT-087- U			39-03-91247	Potato Lake Tank	0.22	1.64
HT-088- U			39-03-91254	Boot Jr. Tank	0.16	1.61
HT-089- U			39-03-91258	Breezy #2 Tank	0.16	1.16
HT-090- U			39-03-91263	Ashurst Run Tank	0.16	0.81
HT-091- U			39-03-91274	Spur Tank	0.22	0.73
HT-092- U			39-03-91281	Section 25 Tank	0.15	0.79
HT-093- D				Exploratory Oil Well	3.00	
HT-094- S				Unnamed tank	0.24	0.24
HT-095- D				Unnamed tank	1.92	1.92
HT-096- S				Unnamed tank	3.60	3.60
HT-097- D				Unnamed tank	2.24	2.24
HT-098- D				Unnamed tank	4.16	4.16
HT-099- S				Unnamed tank	1.40	1.40
HT-100- D				Unnamed tank	1.40	1.40
HT-101- D				Unnamed tank	0.60	0.60
HT-102- D				Unnamed tank	1.12	1.12
HT-103- D				Unnamed tank	2.60	2.60
HT-104- U				Unnamed tank	3.00	3.00
				Total	275.17	235.99

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-001- D	39-03-84303			Combined with HT-010-D & HT-011-D		
HT-007- D	39-03-84306			Gorton Tank #1	1.95	0.65
HT-008- D	39-03-84306			Gorton Tank #2	2.24	1.86
HT-010- D	39-03-84307			Casner Tank #1	2.24	0.78
HT-011- D	39-03-84307			Casner Tank #2	2.24	1.90
HT-024- D	39-03-84371			Hart HQ Well	5.23	0.23
HT-025- D	39-03-84372			Courthouse Well	3.36	0.08
HT-026- D	39-03-84373			Walters (#1) Well	3.36	0.08
HT-027- D	39-03-84374			Hard Luck Well	3.36	0.08
HT-028- D	39-03-84375			Bull Well	3.36	0.08
HT-030- D	39-03-84377			Reservation Well	3.36	0.08
HT-031- D	39-03-84378			Bumpy Road Well	3.36	0.08
HT-032- D	39-03-84379			Walters #2 Well	3.36	0.08
HT-033- D	39-03-84380			Sunshine Well	3.36	0.08
HT-034- D	39-03-84381			Anderson Well	3.36	0.15
HT-037- D	39-03-84384			Walters Tank	1.12	0.44
HT-038- D	39-03-84385			Lute Hart Tank	2.24	3.20
HT-039- D	39-03-84386			Sinkhole Tank #1	2.24	4.09
HT-040- D	39-03-84387			Chimney Tank	2.24	1.13
HT-041- D	39-03-84388			Courthouse Tank	0.78	0.26
HT-042- D	39-03-84389			Boyd Reid Tank	2.24	1.70
HT-043- D	39-03-84390			Prosperity Tank	2.24	0.98
HT-044- D	39-03-84391			66 Tank #1	1.12	0.50
HT-045- D	39-03-84392			66 Tank #2	1.12	0.60
HT-063- D	39-03-84411			Crossroads Tank	3.36	3.64
HT-064- D	39-03-84412			Wagon Box Tank	3.36	11.07
HT-093- D				Exploratory Oil Well	3.00	
HT-095- D				Unnamed tank	1.92	1.92
HT-097- D				Unnamed tank	2.24	2.24
HT-098- D				Unnamed tank	4.16	4.16
HT-100- D				Unnamed tank	1.40	1.40
HT-101- D				Unnamed tank	0.60	0.60
HT-102- D				Unnamed tank	1.12	1.12
HT-103- D				Unnamed tank	2.60	2.60
HT-005- DS	39-03-84305	39-03-86634		Babbitt Tank #1	4.60	4.60
HT-050- DS	39-03-84397	39-03-86550		Big Anderson Tank	61.04	61.04
HT-017- DU	39-03-84364		39-03-90771	Dry (Grass Flat) Lake	0.92	
HT-035- O	39-03-84382			Abstract deleted-- no longer associated with ranch		
HT-047- O	39-03-84394			Sunshine Tank	0.67	2.90
HT-066- O		39-03-86637		Abstract deleted-- no longer associated with ranch		
HT-002- S	39-03-84304	39-03-86553		Charlebois Tank #1	3.36	3.33
HT-003- S	39-03-84304	39-03-86554		Charlebois Tank #2	3.36	3.33
HT-004- S	39-03-84304	39-03-86555		Charlebois Tank #3	1.56	0.88
HT-006- S	39-03-84305	39-03-86635		Babbitt Tank #2	2.13	1.88
HT-009- S	39-03-84306			Gorton Tank #3	2.24	1.36
HT-029- S	39-03-84376	39-03-86633		Oil Well	3.36	0.08
HT-036- S	39-03-84383	39-03-86551		Elliott Tank	12.90	12.90
HT-046- S	39-03-84393	39-03-86631,2		Reservation Tank & Silt Trap	15.29	15.29
HT-048- S	39-03-84395	39-03-86557		Corner Tank	4.66	4.66
HT-049- S	39-03-84396	39-03-86552		Eli Tank	22.23	22.23
HT-051- S	39-03-84398	39-03-86638		Phone Line Tank	12.66	12.66
HT-065- S		39-03-86636		Cement Tank	5.46	5.46
HT-094- S				Unnamed tank	0.24	0.24
HT-096- S				Unnamed tank	3.60	3.60
HT-099- S				Unnamed tank	1.40	1.40
HT-012- U	39-03-84359		39-03-90813	Horse Lake	0.92	

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-013- U	39-03-84360		39-03-90797	Als Lake	0.92	
HT-014- U	39-03-84361			Ashurst Lake	0.92	
HT-015- U	39-03-84362		39-03-90831	Ducksnest Lake	0.92	
HT-016- U	39-03-84363			Coconino Dam & Reservoir	0.92	
HT-018- U	39-03-84365		39-03-90769	Perry Lake	0.92	
HT-019- U	39-03-84366		39-03-90811	Indian Lake	0.92	
HT-020- U	39-03-84367		39-03-90798	Pickett Lake	0.92	
HT-021- U	39-03-84368		39-03-90800	Post Lake	0.92	
HT-022 U	39-03-84369		39-03-90818	Deep Lake	0.92	
HT-023- U	39-03-84370		39-03-90801	Potato Lake	0.92	
HT-052- U	39-03-84399		39-03-91106	Johns Tank	0.92	1.64
HT-053- U	39-03-84400		39-03-91126	Little Elk (Redone) Tank	0.92	1.15
HT-054- U	39-03-84401		39-03-91147	Sinkhole Tank #2 (Section 23 Tank)	0.92	1.40
HT-055- U	39-03-84402		39-03-91117	Newman Tank	0.92	0.92
HT-056- U	39-03-84403		39-03-91120	Pine Grove #1 Tank	0.92	0.96
HT-057- U	39-03-84404		39-03-91118	Otteson Tank	0.75	0.59
HT-058- U	39-03-84405		39-03-91125	Railroad Tank	0.92	2.98
HT-059- U	39-03-84406		39-03-91240	Morman Canyon Tank #1	0.92	1.98
HT-060- U	39-03-84407		39-03-91238	Morgan Tank	1.12	0.95
HT-061- U	39-03-84409		Pending	Snag Tank	1.12	1.18
HT-062- U	39-03-84410		39-03-91095	Casner (Corner) Tank	1.38	0.48
HT-067- U			39-03-90802	Ashurst Spring	0.25	
HT-068- U			39-03-90803	Elliott Spring	0.30	
HT-069- U			39-03-90805	Horse Lake #2	0.22	
HT-070- U			39-03-90806	Little Ashurst Lake	0.22	
HT-071- U			39-03-90808	McDermitt Lake	0.15	
HT-072- U			39-03-90809	Long Lake	0.15	
HT-073- U			39-03-90810	Indian Lake	0.15	
HT-074- U			39-03-90819	Dead Horse Lake & Tank	0.15	1.83
HT-075- U			39-03-90822	Antelope Lake	0.22	
HT-076- U			39-03-90824	Boot Lake	0.15	
HT-077- U			39-03-90825	Breezy Lake	0.22	
HT-078- U			39-03-90829	Ducks Lake	0.20	
HT-079- U			39-03-90830	East McDermitt Lake	0.20	
HT-080- U			39-03-90832	Elliott Lake	0.30	
HT-081- U			39-03-90834	Boot Lake Spring	1.23	
HT-082- U			39-03-90837	Morman Spring	0.44	
HT-083- U			39-03-90846	Exploration Well	0.10	
HT-084- U			39-03-91140	Walnut Creek Tank	0.22	1.54
HT-085- U			39-03-91233	Long Lake Tank	0.16	2.30
HT-086- U			39-03-91234	Low Tank	0.22	0.65
HT-087- U			39-03-91247	Potato Lake Tank	0.22	1.64
HT-088- U			39-03-91254	Boot Jr. Tank	0.16	1.61
HT-089- U			39-03-91258	Breezy #2 Tank	0.16	1.16
HT-090- U			39-03-91263	Ashurst Run Tank	0.16	0.81
HT-091- U			39-03-91274	Spur Tank	0.22	0.73
HT-092- U			39-03-91281	Section 25 Tank	0.15	0.79
HT-104- U				Unnamed tank	3.00	3.00
				Total	275.17	235.99

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-001-D	COMBINED WITH HT-010-D &HT-011-D
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-84303
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	CWR(33-)46740
Type of Uses:		
Source of Supply:		
Location of : Points of Diversion (POD):	Qtr Qtr	Sec T R
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:		
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-002-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86553
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32647, 36-059846
	Filed by SLD:	36-000401, 38-090781(consolidated)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWSW	16	19N	11E

Place of Use (if different from POD):	Same as POD	
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.33 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #1	
Priority Date:	Dec. 30, 1853	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-003-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86554
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR (33-)32646, 36-059846
	Filed by SLD:	36-000403, 38-090783(consolidated)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	16	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.33 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #2	
Priority Date:	Dec. 30, 1853	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-004-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86555
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32644, 36-059846
	Filed by SLD:	36-000394, 36-101683
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	16	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	508,328 Gal	1.56 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.88 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #3	
Priority Date:	Dec. 30, 1853	

Comments:
The SLD also filed 38-090782 which has been withdrawn

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-005-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84305			
	Filed by SLD:	39-03-86634			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32622, 36-059843			
	Filed by SLD:	36-000404, 38-090786			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Ditch POD from Yellow Jacket Canyon:	NWNW		13	20N	11E
Place of Use (if different from POD):					
Tank in:	SWSW		12	20N	11E
	NWNW		13	20N	11E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Babbitt Tank #1				
Priority Date:	Prior to 1884				

Comments:
A short ditch conveys water to the tank.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-006-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84305
	Filed by SLD:	39-03-86635
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32623, 36-059843
	Filed by SLD:	36-000402, 36-101682
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Yellow Jacket Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	12	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	694,063 Gal	2.13 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.88 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Babbitt Tank #2	
Priority Date:	Prior to 1884	

Comments:
The SLD also filed 38-090785 which has been withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32631, 36-059848			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		22	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		635,409 Gal		1.95 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.65 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Gorton Tank #1				
Priority Date:	Aug. 29, 1896				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-008-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32633, 36-059848
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Yellow Jacket Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	22	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.86 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Gorton Tank #2	
Priority Date:	Aug. 29, 1896	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-009-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32632, 36-059848
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Yellow Jacket Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	22	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.36 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Gorton Tank #3	
Priority Date:	Aug. 29, 1896	

Comments:
Gorton Tank #3 is shown on the aerial photos but not the USGS quad map.
Location of this tank was previously claimed on filings as being on deeded ranch land but was found to located on State lease land.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-010-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84303, 39-03-84307
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32628, CWR(33-)46740, 36-059845
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Anderson Canyon, Wallace Canyon , and an unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Anderson Canyon :	SWNE	1	18N	10E
Wallace Canyon:	SESE	19	19N	12E
Unnamed wash:	SWNE	18	19N	12E
Place of Use (if different from POD):	SWNE	18	19N	12E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.78 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Casner Tank #1	
Priority Date:	Jun. 1, 1910	

Comments:
Water from Anderson Canyon is diverted into the Tillman Ditch which flows into Wallace Canyon south of the Hart Ranch (covered by CWR 1542 owned by the Arizona Game & Fish Dept.). Water is diverted from Wallace Canyon into an unnamed ditch which carries water onto the Hart Ranch to Casner Tank #2, which overflows into Casner Tank #1. Both Casner tanks also receive water from an on-site unnamed wash.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-011-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84303, 39-03-84307
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32627, CWR(33-)46740, 36-059845
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Anderson Canyon, Wallace Canyon , and an unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Anderson Canyon :	SWNE	1	18N	10E
Wallace Canyon:	SESE	19	19N	12E
Unnamed wash:	NWSE, SWNE	18	19N	12E
Place of Use (if different from POD):	NWSE, SWNE	18	19N	12E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.90 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Casner Tank #2	
Priority Date:	Jun. 1, 1910	

Comments:
Water from Anderson Canyon is diverted into the Tillman Ditch which flows into Wallace Canyon south of the Hart Ranch (covered by CWR 1542 owned by the Arizona Game & Fish Dept.). Water is diverted from Wallace Canyon into an unnamed ditch which carries water onto the Hart Ranch to Casner Tank #2, which overflows into Casner Tank #1. Both Casner tanks also receive water from an on-site unnamed wash.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-012-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84359
	Filed by SLD:	
	Filed by USFS:	39-03-90813
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32651
	Filed by SLD:	
	Filed by USFS:	36-010176
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Horse Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2NE, NENW	5	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Horse Lake (natural lake)	
Priority Date:	1876	

Comments:
This abstract is for the south edge of Horse Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-013-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84360
	Filed by SLD:	
	Filed by USFS:	39-03-90797
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32659
	Filed by SLD:	
	Filed by USFS:	36-023329
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Als Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	10	19N	9E
	SWSW	11	19N	9E
	NWNW	14	19N	9E
	E2NE	15	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Als Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-014-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84361
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32662
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater	
Source of Supply:	Ashurst Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	13	19N	9E
	E2SE	14	19N	9E
	NE, NESE	23	19N	9E
	W2NW, NWSW	24	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Ashurst Lake (natural lake)	
Priority Date:	Jun. 4, 1975	

Comments:
Ashurst Lake is also covered by Arizona Game and Fish Dept. filings 39-03-88132 and CWR 2182 for stock-water and recreation/fish/wildlife purposes, however these filings do not form the basis of this abstract.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-015-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84362			
	Filed by SLD:				
	Filed by USFS:	39-03-90831			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32663			
	Filed by SLD:				
	Filed by USFS:	36-010196			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Ducksnest Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NW, N2SW		36	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	------ GPM		------ CFS		
Annual Volume of Use:	300,000 Gal		0.92 AF		
Storage Volume or Reservoir Capacity:	------ Gal		------ AF		
Irrigated Acres (if irrigation use):	------ Ac				
Name of Reservoir or Stockpond:	Ducksnest Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-016-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84363
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32664
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater	
Source of Supply:	Coconino Dam & Reservoir	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	N2NW	25	19N	9E
Place of Use (if different from POD):				
Reservoir:	NW	25	19N	9E
	S2NE	26	19N	9E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Coconino Dam & Reservoir	
Priority Date:	Jun.4, 1975	

Comments:
This facility is covered by Arizona Game and Fish filings 39-03-88140 and CWR 2183 for stockwater and recreation/fish/wildlife uses, however these filings do not form the basis of this abstract.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-017-DU	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84364
	Filed by SLD:	
	Filed by USFS:	39-03-90771
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32665
	Filed by SLD:	
	Filed by USFS:	36-014127
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Dry (Grass Flat) Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2N2NE	5	18N	9E
	S2	32	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Dry (Grass Flat) Lake (natural lake)	
Priority Date:	1878	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-018-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84365
	Filed by SLD:	
	Filed by USFS:	39-03-90769
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32666
	Filed by SLD:	
	Filed by USFS:	36-010197
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Perry Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE	28	19N	9E
	NWNE	33	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Perry Lake (natural lake)	
Priority Date:	1876	

Comments:
This abstract is for that portion of Perry Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-019-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84366
	Filed by SLD:	
	Filed by USFS:	39-03-90811
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32667
	Filed by SLD:	
	Filed by USFS:	36-023354
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Indian Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	22	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Indian Lake (natural lake)--see comments	
Priority Date:	1876	

Comments:
There appears to be 2 Indian Lakes in the USFS permit area-- one described by this abstract and another described by abstract HT-073-U. The facility covered by this abstract HT-019-U is labeled Indian Lake Tank on the USGS quad map but is named as only Indian Lake on both the ranch and USFS filings and appears to be a natural lake based on the filings and aerial photo analysis.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-020-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84367			
	Filed by SLD:				
	Filed by USFS:	39-03-90798			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32668			
	Filed by SLD:				
	Filed by USFS:	36-010161			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Pickett Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2NW		15	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pickett Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-021-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84368
	Filed by SLD:	
	Filed by USFS:	39-03-90800
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32669
	Filed by SLD:	
	Filed by USFS:	36-010160
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Post Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	15	19N	9E
	N2NE	22	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Post Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-022-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84369			
	Filed by SLD:				
	Filed by USFS:	39-03-90818			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32670			
	Filed by SLD:				
	Filed by USFS:	36-010162			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Deep Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2NW, N2SW		2	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Deep Lake (natural lake)				
Priority Date:	1876				

Comments:
This abstract is for that portion of Deep Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-023-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84370
	Filed by SLD:	
	Filed by USFS:	39-03-90801
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32671
	Filed by SLD:	
	Filed by USFS:	36-010163
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Potato Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SW	1	19N	9E
	E2SE	2	19N	9E
	NENE	11	19N	9E
	NWNW	12	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Potato Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-024-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84371
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613879
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Domestic, Stockwater	
Source of Supply:	Groundwater (Hart HQ Well)	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	7	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	15 GPM	------ CFS
Annual Volume of Use:	------ Gal	5.23 AF
Storage Volume or Reservoir Capacity:	75,000 Gal	0.23 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Jul. 1, 1940	

Comments:
Annual use includes 1.23 af domestic use and 4 af stockwater use.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-025-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84372			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613878			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Courthouse Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		9	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1967				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-026-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84373			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613877			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Walters (#1) Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		24	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM	------ CFS		
Annual Volume of Use:		1,095,000 Gal	3.36 AF		
Storage Volume or Reservoir Capacity:		25,000 Gal	0.08 AF		
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Feb. 1, 1967				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-027-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84374			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613876			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Hard Luck Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		29	20N	11E
Place of Use (*if different from POD*):	*Same as POD*				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1970				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-028-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84375			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613875			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Bull Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		11	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1964				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-029-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84376			
	Filed by SLD:	39-03-86633			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613874			
	Filed by SLD:	55-614342			
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Oil Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		12	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Mar. 2, 1926				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-030-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84377			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613873			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Reservation Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		7	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1950				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-031-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84378			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613872			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Bumpy Road Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		3	19N	12E
Place of Use (if different from POD):	Same as POD				

Flow Rate:	8 GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	25,000 Gal	0.08 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1955	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-032-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84379			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613871			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Walters #2 Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		23	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1940				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-033-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84380			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613868			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Sunshine Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		13	20N	12.5E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		60 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-034-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84381
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613869
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Groundwater (Anderson Well)	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	20N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	60 GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	50,000 Gal	0.15 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1939	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-035-O: Abstract deleted--no longer associated with Hart Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84382
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32624
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:		
Source of Supply:		

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond:

Priority Date:

Comments:
Baugess Tank lies on a private tract not acquired from the former Hart Ranch owners.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-036-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84383			
	Filed by SLD:	39-03-86551			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32625			
	Filed by SLD:	36-001383, 38-091326			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Elliott Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam:	Lot 3		6	19N	11E
Place of Use (if different from POD):					
Pond:	Lots 3 &4		6	19N	11E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		12.90 AF	
Storage Volume or Reservoir Capacity:		------ Gal		12.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Elliott Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-065812 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-037-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84384			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32626			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		365,000 Gal		1.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.44 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Walters Tank				
Priority Date:	1950				

Comments:
Filing 38-065818 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84385			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32629			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		7	19N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.20 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lute Hart Tank				
Priority Date:	1925				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-039-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84386			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32630			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2N2NW		31	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.09 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Sinkhole Tank #1				
Priority Date:	1941				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-040-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84387
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32634
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	22	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.13 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Chimney Tank	
Priority Date:	1940	

Comments:
Filing 38-065809 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-041-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84388			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32635			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		10	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		254,164 Gal		0.78 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.26 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Courthouse Tank				
Priority Date:	Prior to 1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-042-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84389
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32636
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	10	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.70 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Boyd Reid Tank	
Priority Date:	1936	

Comments:
Filing 38-065808 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-043-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84390
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32637
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	NWSW	35	20N	12E
Place of Use (if different from POD):				
Pond:	W2SW	35	20N	12E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.98 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Prosperity Tank	
Priority Date:	1950	

Comments:
Filing 38-065814 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-044-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84391
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32638
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	9	20N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.50 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	66 Tank #1	
Priority Date:	1940	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-045-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84392			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32639			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		9	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		365,000 Gal		1.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	66 Tank #2				
Priority Date:	1940				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-046-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84393
	Filed by SLD:	39-03-86631, 39-03-86632
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32640
	Filed by SLD:	36-001437,36-001438,38-090787,38-091348(cd)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Babbitt Wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	Lot 1	2	20N	11E
Place of Use (if different from POD):				
Pond:	Lots 1 & 8	2	20N	11E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	15.29 AF
Storage Volume or Reservoir Capacity:	------ Gal	15.29 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Reservation Tank & Silt Trap	
Priority Date:	Prior to 1884	

Comments:
Filing 38-065815 was also filed by the ranch but was withdrawn.
Filing 38-091348 filed by the SLD has been consolidated with CWR(33-)32640
This abstract covers both the Reservation Tank and Reservation Silt Trap (herein considered 1 system) which were each covered under separate SLD filings. The annual use & capacity amounts are the combined amounts of the two facilities.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-047-O				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84394			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32641 (owned by adjacent landowner)			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		14	20N	12.5E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		219,000 Gal		0.67 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.90 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Sunshine Tank				
Priority Date:	1948				

Comments:
Filing 38-065816 was also filed by previous Hart Ranch owners but was withdrawn.
Although this tank is off ranch property, it is being used by the Hart Ranch and was claimed in the above listed adjudication filing filed by previous Hart Ranch owners.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-048-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84395
	Filed by SLD:	39-03-86557
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32642
	Filed by SLD:	36-001385, 38-090784(consolidated)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Wallace Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	2	19N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	4.66 AF
Storage Volume or Reservoir Capacity:	------ Gal	4.66 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Corner Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-065810 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-049-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84396
	Filed by SLD:	39-03-86552
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32643, 36-059847
	Filed by SLD:	36-000395
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	S2N2SW	8	19N	11E
Place of Use (if different from POD):				
Pond:	S2N2SW,NESWSW	8	19N	11E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	22.23 AF
Storage Volume or Reservoir Capacity:	------ Gal	22.23 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Eli Tank	
Priority Date:	Prior to 1884	

Comments:
Pond capacity based on information supplied by the SLD.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-050-DS	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84397
	Filed by SLD:	39-03-86550
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32645, 36-059844
	Filed by SLD:	36-000393
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Anderson Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SWSE	2	19N	11E
Place of Use (if different from POD):				
Pond:	SWSE	2	19N	11E
	NWNE	11	19N	11E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	61.04 AF
Storage Volume or Reservoir Capacity:	------ Gal	61.04 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Big Anderson Tank	
Priority Date:	Prior to 1884	

Comments:
Pond capacity based on information supplied by the SLD.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-051-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84398			
	Filed by SLD:	39-03-86638			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32648			
	Filed by SLD:	36-001440, 38-091350(consolidated)			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		36	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		12.66 AF	
Storage Volume or Reservoir Capacity:		------ Gal		12.66 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Phone Line Tank				
Priority Date:	Dec. 30, 1853				

Comments:
Filing 38-065813 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-052-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84399
	Filed by SLD:	
	Filed by USFS:	39-03-91106
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32649
	Filed by SLD:	
	Filed by USFS:	38-023558
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	30	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.64 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Johns Tank	
Priority Date:	Sep.8, 1952	

Comments:
Filing 38-013923 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-053-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84400
	Filed by SLD:	
	Filed by USFS:	39-03-91126
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32650
	Filed by SLD:	
	Filed by USFS:	38-010090
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	13	19N	8E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.15 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Little Elk (Redone) Tank	
Priority Date:	Nov.13,1949	

Comments:
The ranch filings name the tank Little Elk while the USFS filings call it Redone

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-054-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84401
	Filed by SLD:	
	Filed by USFS:	39-03-91147
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32652
	Filed by SLD:	
	Filed by USFS:	38-074172
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	23	19N	8E
	SWNW	24	19N	8E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.40 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Sinkhole Tank #2 (Section 23 Tank)	
Priority Date:	Oct.28, 1949	

Comments:
The ranch filings name the tank Sinkhole Tank #2 while the USFS filings name it Section 23 Tank

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-055-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84402
	Filed by SLD:	
	Filed by USFS:	39-03-91117
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32653
	Filed by SLD:	
	Filed by USFS:	38-023577
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Newman Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	12	19N	8E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.92 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Newman Tank	
Priority Date:	Dec. 31, 1951	

Comments:
Newman Tank appears to be on the border of the USFS permit area associated with the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-056-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84403
	Filed by SLD:	
	Filed by USFS:	39-03-91120
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32654
	Filed by SLD:	
	Filed by USFS:	38-023436
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed draw	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	30	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.96 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Pine Grove #1 Tank	
Priority Date:	Sep.10, 1930	

Comments:
Filing 38-013921 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-057-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84404
	Filed by SLD:	
	Filed by USFS:	39-03-91118
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32655
	Filed by SLD:	
	Filed by USFS:	38-070235
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	17	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	244,388 Gal	0.75 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.59 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Otteson Tank	
Priority Date:	Jul.23,1931	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-058-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84405
	Filed by SLD:	
	Filed by USFS:	39-03-91125
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32656
	Filed by SLD:	
	Filed by USFS:	38-023453
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	18	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.98 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Railroad Tank	
Priority Date:	Jul.18,1930	

Comments:
Filing 38-013922 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-059-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84406
	Filed by SLD:	
	Filed by USFS:	39-03-91240
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32658
	Filed by SLD:	
	Filed by USFS:	38-023568
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	9	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.98 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Morman Canyon Tank #1	
Priority Date:	Aug. 26, 1949	

Comments:
Filing 38-013924 was also filed by the ranch but was withdrawn

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-060-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84407
	Filed by SLD:	
	Filed by USFS:	39-03-91238
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32660
	Filed by SLD:	
	Filed by USFS:	38-010075
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE, NESE	11	19N	10E
	SWNW,NWSW	12	19N	10E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Morgan Tank	
Priority Date:	Jun.9, 1967	

Comments:
Filing 38-013920 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-061-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84409
	Filed by SLD:	
	Filed by USFS:	Pending
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34641
	Filed by SLD:	
	Filed by USFS:	38-070237
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	7	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.18 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Snag Tank	
Priority Date:	Nov.30,1974	

Comments:
Needs rehabilitation.
USFS recently filed the adjudication claim and is awaiting assignment of the adjudication filing number.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-062-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84410
	Filed by SLD:	
	Filed by USFS:	39-03-91095
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34642
	Filed by SLD:	
	Filed by USFS:	38-070240
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	19	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	450,000 Gal	1.38 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.48 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Casner (Corner) Tank	
Priority Date:	Sep.10,1959	

Comments:
Filing 39-03-84410 calls this tank Casner while the other filings list it as Corner Tank.
This tank is not to be confused with other tanks with similar or same names at other locations on the ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-063-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84411			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34643, 38-065811			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Wagon Box Draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		25	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.64 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Crossroads Tank				
Priority Date:	Prior to 1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-064-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84412
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34644, 38-065817
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Wagon Box Draw	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	33	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	11.07 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Wagon Box Tank	
Priority Date:	Prior to 1975	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-065-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: 39-03-86636 Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: 36-000396, 38-090819 Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	22	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	5.46 AF		
Storage Volume or Reservoir Capacity:	------ Gal	5.46 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Cement Tank			
Priority Date:	Prior to 1884			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-066-O	Abstract deleted--no longer associated with Hart Ranch
Applicable Adjudication Filings:	Filed by ranch:	
	Filed by SLD:	39-03-86637
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	36-001439, 38-091349
	Filed by USFS:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond:

Priority Date:

Comments:
This State claim is for a water use on an adjacent tract of State lease land not associated with the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-067-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90802			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010309			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Ashurst Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	18	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.25 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-068-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90803			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023347			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Elliott Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	22	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-069-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90805			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023352			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Horse Lake #2			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2W2SE, E2E2SW	4	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Horse Lake #2 (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-070-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90806			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023359			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Little Ashurst Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	14	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Little Ashurst Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-071-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90808			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010165			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	McDermitt Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NE, N2SE	35	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.15 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	McDermitt Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-072-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90809		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-010205		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Long Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2, SWNW	28	19N	10E
	N2,N2S2	29	19N	10E
	NWNE	33	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Long Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-073-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90810		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-010158		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Indian Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2SW, W2SE	19	19N	10E
	NWNE	30	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Indian Lake (natural lake)			
Priority Date:	1876			

Comments:
There appears to be 2 Indian Lakes in the USFS permit area-- one described by this abstract and another described by abstract HT-019-U.
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-074-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90819			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010195, 38-023608			
Type of Uses:	Stockwater, Stockpond, Wildlife			
Source of Supply:	Dead Horse Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SE	32	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.15 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.83 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Dead Horse Lake and Tank	
Priority Date:	1876	

Comments:
Analysis of aerial photos and maps show this facility to be a natural lake with a dugout stockpond area inside the lake to store water as the lake dries out. Because the lake is small and the stockpond is a significant portion of the lake, the facility is claimed both as a natural lake and stockpond.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-075-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90822		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-010209		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Antelope Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	15	19N	9E
	SESE	16	19N	9E
	NENE	21	19N	9E
	NWNW	22	19N	9E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.22 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Antelope Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-076-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90824		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-010164		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Boot Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	33	19N	10E
	NW, N2SW	34	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Boot Lake (natural lake)			
Priority Date:	1876			

Comments:
This abstract is for that portion of Boot Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-077-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90825		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-014124		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Breezy Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE, SENE	25	19N	9E
	SW	30	19N	10E
	N2N2NW	31	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.22 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Breezy Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-078-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90829		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-023344		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Duck Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	27	19N	10E
	W2NE	34	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.20 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Duck Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-079-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90830		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-023345		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	East McDermitt Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2S2SW	25	19N	10E
	NW	36	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.20 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	East McDermitt Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-080-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90832			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-014126, 36-023346			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Elliott Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE, NWSE	21	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.30 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Elliott Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-081-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90834		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	CWR 1906		
Type of Uses:	Stockwater			
Source of Supply:	Boot Lake Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	27	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	400,000 Gal	1.23 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Feb.20,1952			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-082-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90837			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023368			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Morman Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	3	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.44 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-083-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90846			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (Exploration Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	14	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1977			

Comments:
Flow rate estimated based on similar wells on the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-084-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91140			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070152, 38-023591			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Walnut Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	29	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.54 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Walnut Creek Tank			
Priority Date:	Aug. 20, 1972			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-085-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91233			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010059			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.16 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.30 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Long Lake Tank	
Priority Date:	Oct. 25, 1959	

Comments:
This tank is inundated by Long Lake during high lake levels.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-086-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91234			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023400			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	36	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.65 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Low Tank			
Priority Date:	Sep. 20, 1966			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-087-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91247			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070192			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	11	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.64 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Potato Lake Tank			
Priority Date:	Nov. 29, 1945			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-088-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91254			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070120			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	33	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.61 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Boot Jr. Tank			
Priority Date:	Dec. 30, 1969			

Comments:
This tank is inundated by Boot Lake during high lake levels.
The location of this tank as shown on the USGS quad map is out of date--aerial photos show it slightly south of the quad map location.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-089-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91258			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010112			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENWNW	31	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.16 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Breezy #2 Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-090-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91263			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010094			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Ashurst Run			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	25	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.81 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Ashurst Run Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-091-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91274			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-074202			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Ashurst Run			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	35	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.73 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Spur Tank			
Priority Date:	Sep. 20, 1966			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-092-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91281			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023507			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Ashurst Run			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	25	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.79 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Section 25 Tank			
Priority Date:	Sep.7, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-093-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (Exploratory Oil Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	24	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Unknown			

Comments:
Flow rate and annual use estimated from similar wells on the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-094-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	36	20N	12E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.24 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.24 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-095-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	13	20N	12E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.92 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1968	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-096-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	14	19N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.60 AF		
Storage Volume or Reservoir Capacity:	------ Gal	3.60 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-097-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	5	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	2.24 AF		
Storage Volume or Reservoir Capacity:	------ Gal	2.24 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-098-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	19	20N	11E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	4.16 AF
Storage Volume or Reservoir Capacity:	------ Gal	4.16 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1968	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-099-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	8	19N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	1.40 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.40 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
This tank does not appear to have been included as part of nearby Eli Tank (HT-49) based on conversations with the SLD. Analysis of aerial photos and maps verify this tank to be separate from Eli Tank.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-100-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	24	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.40 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.40 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1968	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-101-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	25	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.60 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.60 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-102-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	4	18N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	1.12 AF		
Storage Volume or Reservoir Capacity:	------ Gal	1.12 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1965			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-103-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	12	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	2.60 AF		
Storage Volume or Reservoir Capacity:	------ Gal	2.60 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1980			

Comments:
Stockpond storage capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-104-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2NWNW	31	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1974	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of revised USGS quad map.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI DRYE RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
DR-001- D	39-03-80467			Twin Tank #1	1.00	0.30
DR-002- D	39-03-80467			Twin Tank #2	1.00	0.58
DR-003- D	39-03-80468			Perry Tank	1.33	0.84
DR-004- D	39-03-80469			Cedar Dam	2.65	5.32
DR-005- S	39-03-80469	39-03-86629		Cement Dam	1.33	0.72
DR-006- S	39-03-80470	39-03-86630		Lower Cattleguard Tank	1.43	2.13
DR-007- SU	39-03-80471	39-03-86627	39-03-91271	Corner Tank	2.97	2.70
DR-008- U	39-03-84408		39-03-91256	Boundary (Yellow Jacket) Tank	3.36	13.96
DR-009- S		39-03-86626		Upper Cattleguard Tank	0.30	0.20
DR-010- S		39-03-86628		Well	0.22	
DR-011- U			39-03-91235	Malo Tank	0.25	0.65
DR-012- U			39-03-91239	Morman Tank	0.05	0.47
DR-013- U			39-03-91243	Padre Tank	0.05	0.42
DR-014- U			39-03-91246	Pine Tank	0.05	14.70
DR-015- U			39-03-91252	Billy Back Tank	0.05	3.78
DR-016- U			39-03-91259	Buzzard Tank	0.05	0.50
DR-017- U			39-03-91260	Cabin (Draw) Tank	0.05	0.50
DR-018- U			39-03-91262	Cluster Tank	0.05	0.37
DR-019- U			39-03-91269	Squaw Tank	0.05	2.68
DR-020- U			39-03-91298	Browse Tank	0.71	0.80
DR-021- U			39-03-91301	Rim Tank	0.16	0.40
DR-022- D				Drye HQ well	3.00	
DR-023- U				Billy Back Spring (#2)(Portion)	0.22	
DR-024- D				Unnamed tank	1.00	1.00
				Total	21.33	53.02

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI DRYE RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
DR-001- D	39-03-80467			Twin Tank #1	1.00	0.30
DR-002- D	39-03-80467			Twin Tank #2	1.00	0.58
DR-003- D	39-03-80468			Perry Tank	1.33	0.84
DR-004- D	39-03-80469			Cedar Dam	2.65	5.32
DR-022- D				Drye HQ well	3.00	
DR-024- D				Unnamed tank	1.00	1.00
DR-005- S	39-03-80469	39-03-86629		Cement Dam	1.33	0.72
DR-006- S	39-03-80470	39-03-86630		Lower Cattleguard Tank	1.43	2.13
DR-009- S		39-03-86626		Upper Cattleguard Tank	0.30	0.20
DR-010- S		39-03-86628		Well	0.22	
DR-007- SU	39-03-80471	39-03-86627	39-03-91271	Corner Tank	2.97	2.70
DR-008- U	39-03-84408		39-03-91256	Boundary (Yellow Jacket) Tank	3.36	13.96
DR-011- U			39-03-91235	Malo Tank	0.25	0.65
DR-012- U			39-03-91239	Morman Tank	0.05	0.47
DR-013- U			39-03-91243	Padre Tank	0.05	0.42
DR-014- U			39-03-91246	Pine Tank	0.05	14.70
DR-015- U			39-03-91252	Billy Back Tank	0.05	3.78
DR-016- U			39-03-91259	Buzzard Tank	0.05	0.50
DR-017- U			39-03-91260	Cabin (Draw) Tank	0.05	0.50
DR-018- U			39-03-91262	Cluster Tank	0.05	0.37
DR-019- U			39-03-91269	Squaw Tank	0.05	2.68
DR-020- U			39-03-91298	Browse Tank	0.71	0.80
DR-021- U			39-03-91301	Rim Tank	0.16	0.40
DR-023- U				Billy Back Spring (#2)(Portion)	0.22	
				Total	21.33	53.02

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80467			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066689			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.30 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Twin Tank #1				
Priority Date:	1938				

Comments:
Filing 39-03-80467 appears to cover both Twin Tank #1 (DR-001-D) and Twin Tank #2 (DR-002-D)

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-002-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80467			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066690			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.58 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Twin Tank #2				
Priority Date:	1938				

Comments:
Filing 39-03-80467 appears to cover both Twin Tank #1 (DR-001-D) and Twin Tank #2 (DR-002-D)

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80468			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066692			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		18	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.33 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.84 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Perry Tank				
Priority Date:	Prior to 1926				
Comments:					

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80469			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066691			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		25	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.65 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.32 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cedar Dam				
Priority Date:	1956				
Comments:					

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-005-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80469			
	Filed by SLD:	39-03-86629			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066685			
	Filed by SLD:	36-001435, 38-090712			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		36	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.33 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.72 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cement Dam				
Priority Date:	Dec. 30, 1853				
Comments:					

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80470			
	Filed by SLD:	39-03-86630			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066688			
	Filed by SLD:	36-001436, 38-090715			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		24	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.43 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.13 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Lower Cattleguard Tank				
Priority Date:	Prior to 1884				

Comments:
See DR-009-S for adjacent Upper Cattleguard Tank.
The SLD has separate filings for each of the two tanks, while the ranch has only one set of filings.
Based on the pond dimensions listed in the ranch filings, they appear to apply to Lower Cattleguard Tank.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-007-SU	
Applicable Adjudication Filings:	Filed by ranch:	39-03-80471
	Filed by SLD:	39-03-86627
	Filed by USFS:	39-03-91271
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066694
	Filed by SLD:	36-001434, 38-090713
	Filed by USFS:	38-023601
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	26	20N	10E
	SENE	27	20N	10E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	2.97 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.70 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Corner Tank	
Priority Date:	Prior to 1884	

Comments:
Pond is located on both State leased land and U.S. Forest Service permit land.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-008-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84408			
	Filed by SLD:				
	Filed by USFS:	39-03-91256			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR (33-) 32661			
	Filed by SLD:				
	Filed by USFS:	38-070239			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		3	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.96 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Boundary Tank (Yellow Jacket Tank)				
Priority Date:	Sep. 30, 1946				

Comments:
Aerial photos show two integrated ponds with the upstream pond also serving to trap sediment.
The abstract storage volume is the combined capacity of the two ponds.
The ranch filings 39-03-84408 and CWR 32661 were originally filed by Babbitt Ranches Inc.
since the pond location was once associated with the Hart Ranch USFS permit area.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-009-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: 39-03-86626 Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: 36-001433, 38-090714 Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	24	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.30 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.20 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Upper Cattleguard Tank			
Priority Date:	Prior to 1884			

Comments:
See DR-006-S for adjacent Lower Cattleguard Tank

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-010-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: 39-03-86628 Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: 55-630112 Filed by SLD: 55-614341 Filed by USFS:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Groundwater (well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	26	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	6 GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Dec. 20, 1932			

Comments:
The adjudication filing indicates the well feeds a steel tank and drinker.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-011-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91235			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023406			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	10	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.25 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.65 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Malo Tank			
Priority Date:	Jun.30, 1960			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-012-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91239			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023567			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	20	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.47 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Morman Tank			
Priority Date:	Aug.29, 1961			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-013-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91243			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023427			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	31	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.42 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Padre Tank			
Priority Date:	Sep. 10, 1961			

Comments:
Correspondence with USFS indicates the tank capacity has increased to .42 af (per 39 filing) from .18 af (per 38 filing) due to cleaning operation.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-014-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91246			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023435			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2NE	8	19N	10E
Place of Use (if different from POD):	NE	8	19N	10E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.05 AF
Storage Volume or Reservoir Capacity:	------ Gal	14.70 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Pine Tank	
Priority Date:	Dec. 31, 1953	
Comments:		

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-015-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91252			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070116			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Billy Back Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	9	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	3.78 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Billy Back Tank			
Priority Date:	Oct. 31, 1951			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-016-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91259			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070103			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	27	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.50 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Buzzard Tank			
Priority Date:	Aug. 24, 1961			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-017-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91260			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010117			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Cabin Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	16	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.50 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Cabin (Draw) Tank			
Priority Date:	Jan. 8, 1953			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-018-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91262			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070092			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	29	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.37 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Cluster Tank			
Priority Date:	Aug. 29, 1961			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-019-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91269			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023501			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Cabin Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	18	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	------ Gal	2.68 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Squaw Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-020-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91298			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: CWR (33-) 83357			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	6	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	231,914 Gal	0.71 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.80 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Browse Tank	
Priority Date:	July, 1978	
Comments:		

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-021-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91301			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: CWR (33-) 83358			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	9	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	50,835 Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.40 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Rim Tank			
Priority Date:	July 1978			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-022-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: 55-630111 Filed by SLD: Filed by USFS:			
Type of Uses:	Domestic,Stockwater			
Source of Supply:	Groundwater (Drye HQ well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NE	1	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	6 GPM	------ CFS		
Annual Volume of Use:	------ Gal	3.00 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1946			

Comments:
No annual amount given in filing. Annual amount herein is estimated based on amounts given for similar wells on this ranch and the adjacent Hart Ranch.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-023-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: CWR 1853 (portion of) Filed by SLD: Filed by USFS:			
Type of Uses:	Stockwater			
Source of Supply:	Billy Back Spring (#2)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	20	19N	10E
Place of Use (if different from POD):	NWNW	21	19N	10E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	73,000 Gal	0.22 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	May 3, 1943	

Comments:
CWR 1853 is in the name of A.C. Drye and covers water use both on non-ranch privately owned land as well as Forest Service permit land associated with the Drye Ranch. Only that portion pertaining to the use on permit land is included in this abstract, with the annual amount given herein based on a proportion of the total annual use for stockwater.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-024-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	18	19N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		------ GPM	------ CFS	
Annual Volume of Use:		------ Gal	1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal	1.00 AF	
Irrigated Acres (if irrigation use):		------ Ac		
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Unknown			

Comments:
No filings were found for this tank which lies downstream of Perry Tank (DR-003-D).
Annual and storage amounts were estimated from aerial photos.

A-2
United States Adjudication Claims

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DEPT. OF
WATER RESOURCES

REPORT OF WATER CLAIMS
BY
THE UNITED STATES OF AMERICA
FOR
NEW LANDS OF THE THE NAVAJO NATION

In Connection With
The General Adjudication of
All Rights of Water Use in the
Little Colorado River System
and Source, Civil No. 6417,
Superior Court, Apache County, Arizona

November 21, 1985

STETSON ENGINEERS INC.
San Rafael Capistrano Beach West Covina
California

RECEIVED
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WATER RESOURCES

For Departmental Use Only

File No. 39- 91442
Date Filed: 11-27-85
WFN

STATEMENT OF CLAIMANT FORM
FOR
IRRIGATION USE

LITTLE COLORADO RIVER WATERSHED ADJUDICATION
SUPERIOR COURT OF APACHE COUNTY

1. Claimant Name: The Navajo Nation
   Claimant Address: Box 2010 (c/o Navajo Dept. of Justice) City Window Rock
   State: Arizona Zip Code 86515 Telephone (602) 871-6932

2. Basis of Claim:
   A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No.____
   B. ☐ Appropriation Right acquired after June 12, 1919. Application No.____, Permit No.____, or Certificate of Water Right No.____
   C. ☐ Decreed water right. Principal litigants, court, date and case no.:____
   D. ☐ Right to withdraw groundwater.
   E. ☒ Other, describe: Reserved Right of an Indian Tribe

3. Source of Water:
   A. ☒ Stream: name See attached lists and maps, tributary to____
   B. ☐ Spring: name____, tributary to____
   C. ☐ Lake or Reservoir: name____, tributary to____
   D. ☐ Groundwater.

4. Legal description of the Point of Diversion: (attach additional sheet if required) See attached lists and maps.
   ____¼, ____¼, ____¼, Section____, Township____N/S, Range____E/W

5. If there are Stockpond, Domestic or Other Uses also supplied from the point of diversion, describe:

6. Means of Diversion:
   A. ☒ Instream pump.
   B. ☒ Gravity flow into a ditch, canal or pipeline.
   C. ☒ Well: Arizona State Land Department, Arizona Water Commission or Arizona Department of Water Resources Intent to Drill File No.____
   D. ☐ Other, describe:____

7. Means of Conveyance:
   A. ☒ Ditch, canal or pipeline. If the means of conveyance [illegible]

8. Place(s) of Use, Annual Water Use and Claimed Priority Date(s): (attach additional sheet if required)

County: see attached lists and maps

Legal Subdivision	Section	Township	Range	Acres	Annual Water Use (acre-feet)	Claimed Priority Date (month/day/year)
		N/S	E/W			
		N/S	E/W			
		N/S	E/W			

9. Claimed Right: See attached lists and maps

A. Maximum Flow Rate: _____ ☐ cubic-feet per second ☐ gallons per minute ☐ Arizona miner's inches

B. Annual Volume of Water Use: _____ acre-feet

C. Storage Right: _____ acre-feet

10. Attach photographs, maps or sketches necessary to show the point(s) of diversion, storage reservoir(s), means of conveyance and place(s) of use.

11. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant specific authorization must be obtained.

12. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person? Contact John A. MacKinnon, Attorney, Navajo Dept. of Justice, at the above-listed address during business hours.

13. Additional comments: Please see the attached Irrigation Use Summary, Irrigation Use Lists, and Irrigation Use Maps.

(attach additional sheet if required)

14. Attach Filing Fee to form. Mail form(s) and fee(s) to: Department of Water Resources, P.O. Box 2920, Phoenix, AZ 85062. Not applicable.

15. Notarized Statement:

I (We), Peterson Zah, Chairman, Navajo Tribal Council

the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the information contained and statements made herein are to the best of my(our) knowledge and belief true, correct and complete.

SEP 23 1985

Peterson Zah, Chairman
Navajo Tribal Council

(seal)

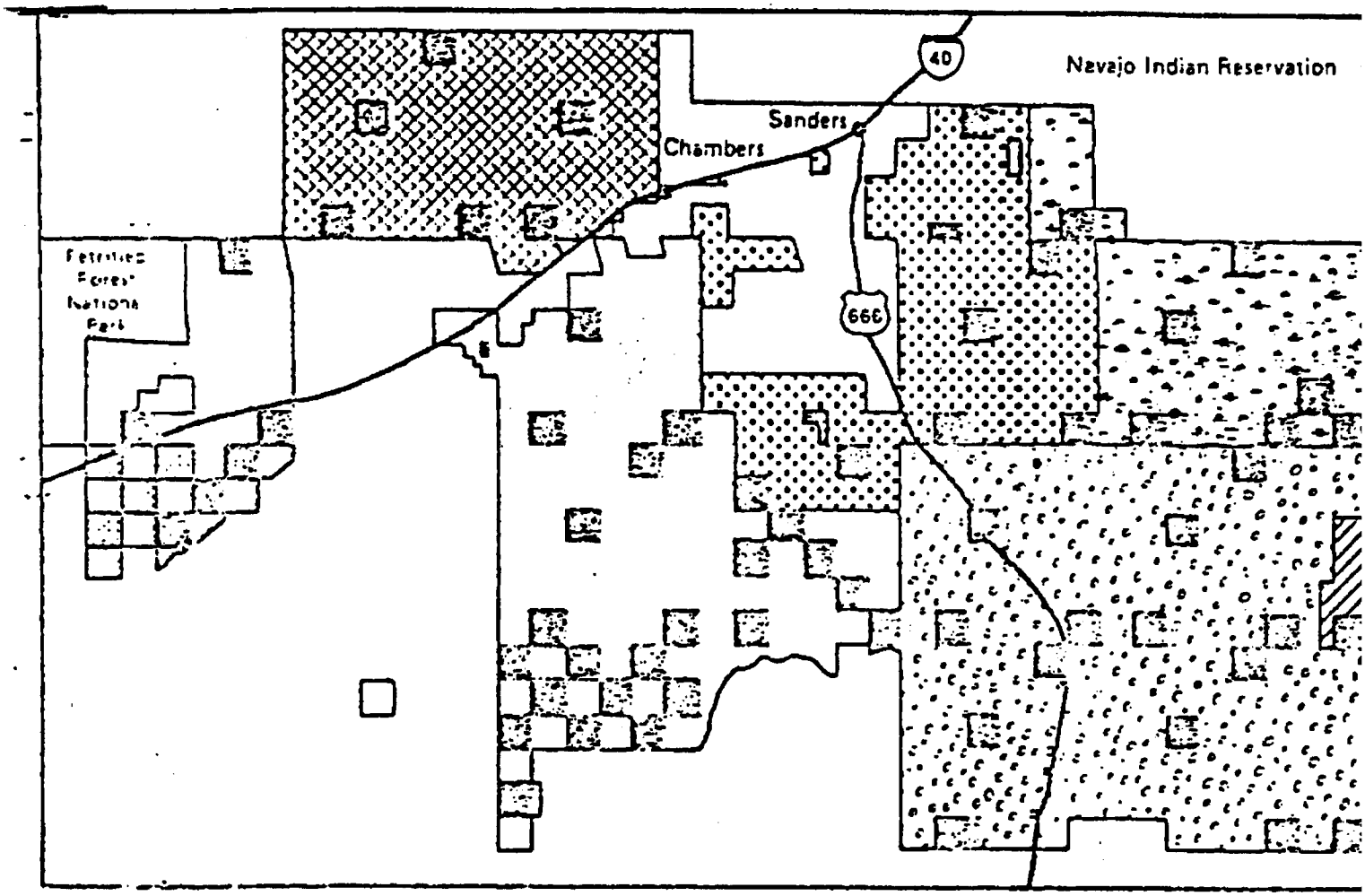
My Commission Expires Feb. 4, 1989

My Commission Expires:

Faye Kinlicheenie
Notary Public

or,

Lands Selected by the Navajo Tribe



RANCH	DEEDED	STATE	BLM	TOTAL
Chambers (Navajo)	44,800	4,480		49,280
Bar N (Navajo)	106,880	10,000		116,880
Wallace	45,000	6,000		51,000
Spurlock	61,440	16,000		77,440
Roberts	35,480	6,080		41,560
Fitzgerald	20,000	3,840	5,120	28,960
Kelsey	5,169	1,280		6,449
TOTAL	318,769	47,680	5,120	371,409

APPENDIX B

RECEIVED
DEC 18 1985
DEPT. OF
WATER RESOURCES

From: Alexandra Arboleda
To: Lisa Jannusch
Date: 9/8/00 1:41PM
Subject: US DOJ address

The United States contact for the LCR adjudication is:

Charles Jakosa
U.S. Department of Justice
Environment and Natural Resources Division
Indian Resources Section
P.O. Box 44378
Washington, D.C. 20026-4378

His phone # is (202) 514-1411

alex

SC1100 ARIZONA DEPARTMENT OF WATER RESOURCES TODAYS DATE 02/2
NEXT SCREEN: STATEMENT OF CLAIMANT REGISTRY

CLAIMANT # 39 03 91441
ACTIVE -- ACTIVE STATUS DATE: 07/03/86

NAMES(S)
NAVAJO & HOPI TRIBES
AND

MAILING ADDRESS
C/O HERBERT A BECKER
PO BOX 607
ALBUQUERQUE NM 87103

WATERSHED: LITTLE COLORADO RIVER CLAIMED PRIORITY DATE: 00/00/0000
FILING DATE: 11/29/85 FEE COLLECTED: STATUTE: ARS45 -- 254F

TYPE OF USE	ANNUAL VOLUME	PLACE OF USE COUNTY	BOOK	MAP	PARCEL
IRRIGATION USE					
OTHER USE					
OTHER USE					
STOCKPOND USE					

SC1120 ARIZONA DEPARTMENT OF WATER RESOURCES TODAYS DATE 02/22/
NEXT SCREEN: STATEMENT OF CLAIMANT REGISTRY

CLAIMANT # 39 03 91441
BASIS OF CLAIM

********** NONE CLAIMED **********

USE (OTHER USE FILINGS ONLY)
MUNICIPAL USE COMMERCE/INDUST USE RECR/FISH/WLDLIF USE
OTHER USE

SOURCE OF WATER

********** NONE CLAIMED **********

SC1190 ARIZONA DEPARTMENT OF WATER RESOURCES TODAYS DATE 02/22/
NEXT SCREEN STATEMENT OF CLAIMANT REGISTRY
CLAIMANT # 39 03 91441 ASSIGNMENT BROWSE

ASSIGNEE NO. 0000
STATUS A ASSIGNOR 0000

NAME(S)	MAILING ADDRESS	ASSIGNED DATE
NAVAJO & HOPI TRIBES	C/O HERBERT A BECKER PO BOX 607 ALBUQUERQUE NM 87103	07 03 1983

DID ASSIGNEE FILE AN AMENDMENT? N
IS ASSIGNOR STILL A PARTY? Y

ASSIGNEE NO.
STATUS ASSIGNOR

NAME(S)	MAILING ADDRESS	ASSIGNED DATE

DID ASSIGNEE FILE AN AMENDMENT?
IS ASSIGNOR STILL A PARTY?

PF5 -- BACKWARD PF6 - FORWARD
NO MORE ITEMS TO BE LISTED

AS OF 04/27/94

LAND OWNER	WATERSHED FILE REPORT NUMBER
SOC'S FILED BY THE TRIBES OR INBEHALF OF THE TRIBES	034-00-007

A P P L I C A B L E F I L I N G S A N D D E C R E E S

CLEARLY STATED INFORMATION FROM FILINGS AND DECREES

FILING NUMBER	FILING STATUS	USES	QUANTITY IN AFA	USE LOCATION SECTION	TWNP	RNGE	CLAIM DATE	DIVERSION LOCATION SECTION	TWNP	RNGE
39-0091441	AMENDED	IRRIGATION	443365.00	NONE CLAIMED			NONE	NONE CLAIMED		
		STOCKPOND	4019.00							
		MUNICIPAL	63331.00							
		COMMERCIAL/IND	33356.00							
		REC/FISH/WLDLF	2709.00							
		MINING	19579.00							
		STOCKWATERING	1137.00							
		DOMESTIC	331.00							
39-0091442		IRRIGATION	400517.00	NONE CLAIMED			NONE	NONE CLAIMED		
		MUNICIPAL	52942.00							
		DOMESTIC	334.00							
		REC/FISH/WLDLF	3299.00							
		STOCKWATERING	585.00							
		STOCKPOND	3763.00							
		COMMERCIAL/IND	35724.00							
		MINING	16888.00							
39-0091443		IRRIGATION	97604.00	NONE CLAIMED			NONE	NONE CLAIMED		
		STOCKPOND	1045.00							
		MINING	31445.00							
		MUNICIPAL	8225.00							
		REC/FISH/WLDLF	231.00							
		STOCKWATERING	754.00							
		COMMERCIAL/IND	1102.00							
39-0091713		STOCKWATERING	20.00	NWNENE01	32ON	09OE	NONE	NONE CLAIMED		
				NWNENW01	32ON	09OE				
				NWNWSE01	32ON	09OE				
39-0091714		IRRIGATION	22170.00	NWNENE01	32ON	09OE	NONE	NONE CLAIMED		
				NWNWSE01	32ON	09OE				
				NWSENE01	32ON	09OE				
39-0091715		DOMESTIC	136.00	NWNENE01	32ON	09OE	NONE	NONE CLAIMED		
				NWNWSE01	32ON	09OE				
				NWSENE01	32ON	09OE				
39-0091736		OTHER	71.00	NENESW23	14ON	26OE	NONE	NENESW23	14ON	26OE
		STOCKWATERING								
		REC/FISH/WLDLF								
39-0091737		IRRIGATION	4581.50	09	14ON	26OE	NONE	NWSESE15	14ON	26OE
				10	14ON	26OE				
				15	14ON	26OE				
39-0091738		DOMESTIC	.45	NENWNW15	14ON	26OE	NONE	NENWNW15	14ON	26OE
		STOCKWATERING	1.44							
39-0091739		STOCKPOND	.65	NWNENW15	14ON	26OE	NONE	NWNENW15	14ON	26OE
39-0091740		DOMESTIC	.45	SWNWNW09	14ON	26OE	NONE	SWNWNW09	14ON	26OE
		STOCKWATERING	1.44							
39-0091741		DOMESTIC	.45	NWSWSW03	14ON	26OE	NONE	NWSWSW03	14ON	26OE
		STOCKWATERING	1.44							
39-0091742		STOCKPOND	.65	NESESW03	14ON	26OE	NONE	NESESW03	14ON	26OE
39-0091743		STOCKPOND	1.69	SWNWSE02	14ON	26OE	NONE	SWNWSE02	14ON	26OE
39-0091744		STOCKPOND	.78	SWNWSE02	14ON	26OE	NONE	SWNWSE02	14ON	26OE
39-0091745		STOCKPOND	1.11	SENWSE02	14ON	26OE	NONE	SENWSE02	14ON	26OE

P W R S U M M A R Y 034-00-007

PWR #	APPLICABLE ADJ FILINGS	APPLICABLE PRE FILINGS	*APPARENT FIRST USE DATE* DATE	BASIS FOR DATE	WATER SOURCES AND CLASSIFICATIONS
NONE	39-0091441	NONE			
	39-0091442				
	39-0091443				
	39-0091713				
	39-0091714				
	39-0091715				
	39-0091736				
	39-0091737				
	39-0091738				
	39-0091739				
	39-0091740				
	39-0091741				
	39-0091742				
	39-0091743				
	39-0091744				
	39-0091745				
	39-0091746				
	39-0091747				
	39-0091748				
	39-0091749				
	39-0091750				
	39-0091751				
	39-0091752				

NRCE

NATURAL RESOURCES CONSULTING ENGINEERS, INC.
CIVIL, ENVIRONMENTAL, AND WATER RESOURCES CONSULTANTS

November 22, 1994

Bradley S. Bridgewater
U.S. Department of Justice
999 18th Street, Suite 945
Denver, Colorado 80202

William A. White, Esq.
U.S. Department of Justice
Environmental and Natural Resources Division
Indian Resources Section
P.O. Box 44378
Washington, D.C. 20026-4378

Gentlemen:

Transmitted herewith is a summary of the amended water rights claims for the Indian Lands in the Little Colorado River basin. The claims, which include both agricultural and non-agricultural water uses, are summarized below.

Main Office
1250 Addison Street, Suite 204
Berkeley, CA 94702
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Water Demand (Acre-feet)			
Water Use	Present or Recent	Future Additional	Total
Irrigation (Surface)	160,737	228,868	389,605
Irrigation (Ground)	7,874	124,519	132,393
Evaporation from Irrigation Storage	1,158	30,370	31,528
Municipal and Domestic	12,657	30,490	43,147
Stockponds	22,677	873	26,741
Recreation	2,478	404	2,882
Industrial	291	33,072	33,363
Mining	8,449	11,065	19,514
Religious	Study in Progress	Study in Progress	Study in Progress
Total	219,512	459,661	679,173

The studies conducted to arrive at the above claims were reconnaissance in nature and were based upon field studies and existing data and information. Additional data collection, field investigations and feasibility level studies will be necessary to refine the claims. Therefore, it can be expected that, at some future date, it will be necessary to revise the statement of claims.

Sincerely,
NATURAL RESOURCES CONSULTING ENGINEERS, INC.

Woldezion Mesghinna

Woldezion Mesghinna
President

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NATURAL RESOURCES CONSULTING ENGINEERS, INC.

CIVIL, ENVIRONMENTAL, AND WATER RESOURCES CONSULTANTS

REPORT OF AMENDED WATER CLAIMS BY THE UNITED STATES OF AMERICA FOR THE INDIAN LANDS IN THE LITTLE COLORADO RIVER BASIN

In Connection With
The General Adjudication of
All Rights of Water Use in the
Little Colorado River System
and Source, Civil No. 6417,
Superior Court, Apache County, Arizona

Prepared for
U.S Department of Justice

November 22, 1994

Prepared by
NATURAL RESOURCES CONSULTING ENGINEERS, INC.

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INTRODUCTION

This amended claim has been prepared in response to the Draft Hydrographic Survey Report for Indian Lands in the Little Colorado River System prepared by the Arizona Department of Water Resources in September 1994. This supplemental claim includes water claims associated with the Navajo, Hopi, White Mountain Apache Indian Reservations, San Juan Southern Paiute Lands and the Zuni Pueblo in Arizona.

The studies conducted to arrive at this claim were reconnaissance in nature and were based upon field study, existing data and information. Additional data collection, field investigations, and feasibility level studies will be necessary to refine the claims. Therefore, it can be expected that, at some future date, it will be necessary to revise the statement of claims.

IRRIGATION WATER USE (SURFACE WATER)

Description of Water Use

Current or recent use of surface waters for irrigation and diversion of water from the Little Colorado River or its tributaries to off-stream projects and storage facilities for future irrigation use.

Location and Source of Water Use

There are approximately 104,304 acres of currently or recently irrigated land using surface waters on Indian Lands in the Little Colorado River basin. Based on interpretation of aerial photos and limited field investigation, there are 69,223 irrigated acres on the Navajo Reservation and 32,893 acres on the Hopi Reservation. There are 28.5 acres claimed on San Juan Southern Paiute Lands and 2,159 acres on the Zuni Pueblo in Arizona. Water claims for these irrigated lands are tabulated by reservation in Table I.

On the Hopi and Navajo Reservations, 64,480 of future irrigated acres will be served directly from the Little Colorado River and 19,103 acres will be served from the various tributaries of the Little Colorado River. Of this acreage, 79,213 future irrigable acres are on the Navajo Reservation and 4,400 acres are on the Hopi Reservation. 703 acres on the Navajo New Lands will be irrigated from the Puerco River and Playa streams. Based on aboriginal rights, 4,270 future additional acres on the Zuni Pueblo will be irrigated from the Little Colorado, and Zuni Rivers, their tributaries, and groundwater. Water claims for these future lands are also tabulated by reservation in Table I.

Table I Irrigation Water Use (Surface Water)

Tribe	Current or Recent Irrigation Water Use (AF)	Future Additional Irrigation Water Use (AF)	Total Irrigation Water Use (AF)
Navajo	108,464	194,388	302,852
Hopi	42,937	15,780	58,717
San Juan Southern Paiute	160	0	160
Zuni	9,176	18,700	27,876
Total	160,737	228,868	389,605

EVAPORATION FROM IRRIGATION STORAGE

Description of Water Use

Evaporation from both current or recent, and planned future irrigation reservoirs.

Location of Water Use

The claims for 18 current or recent, and 13 future irrigation reservoirs on the tributaries of the Little Colorado River are located on the Navajo and Hopi Reservations. The evaporation from irrigation storage is tabulated in Table II.

Table II Evaporation from Irrigation Storage

Tribe	Current or Recent Evaporation Use (AF)	Future Additional Evaporation Use (AF)	Total Evaporation Use (AF)
Navajo	969	21,008	21,977
Hopi	186	9,359	9,545
San Juan Southern Paiute	3	3	6
Total	1,158	30,370	31,528

IRRIGATION WATER USE (GROUND WATER)

Description of Water Use

Current or recent, and future additional use of groundwater for irrigation.

Location and Source of Water Use

There are 1,287 acres of currently or recently irrigated lands using groundwater from the Indian Lands in the Little Colorado River basin. Based on interpretation of aerial photos and limited field verification, 881 acres irrigated by groundwater are on the Navajo Reservation. 289 acres are on the Hopi Reservation, 15 acres on the San Juan Southern Paiute Lands, and 371 acres on the Zuni Pueblo in Arizona. Claims for the Navajo New Lands are currently under investigation.

The future irrigable lands are served by sources underlying the Reservations. Groundwater for the Indian Reservation lands will be diverted from four aquifers: (1) N-aquifer, mainly Navajo Sandstone; (2) C-aquifer, mainly Coconino Sandstone; (3) the alluvium of the Little Colorado River; (4) D-aquifer, mainly Dakota Sandstone. Other water bearing formations may also be used.

On the Navajo and Hopi Reservations, 4,529 acres will be served by groundwater from the Little Colorado Alluvium near Leupp, and 30,072 acres of irrigable land will be served by other aquifers. There are 29,341 acres of future irrigable land that will be served by groundwater on the Navajo Reservation, 5,260 acres on the Hopi Reservation, 4,489 acres on the Navajo New Lands, and 1,732 acres on San Juan Southern Paiute Lands. Water requirements for these lands these acres are tabulated by reservation in Table III.

Table III Irrigation Water Use (Ground Water)

Tribe	Present or Current Irrigation Use (AF)	Future Additional Irrigation Use (AF)	Total Irrigation Use (AF)
Navajo*	4,962	103,574	108,536
Hopi	1,250	15,780	17,030
San Juan Southern Paiute	85	5,165	5,250
Zuni	1,577	0	1,577
Total	7,874	124,519	132,393

*-includes Navajo New Lands

MUNICIPAL AND DOMESTIC GROUNDWATER USE

Description of Water Use

Municipal and Domestic water use is for communities, towns, villages, homesites and farmsteads.

Location and Source of water Use

The Navajo Tribe is currently compiling a recently completed inventory that, to date, has identified a total of 1,056 wells and 551 springs on the Reservation and other tribal land. An inventory of Navajo wells conducted in 1990 identified 82 public water supply systems with 159 wells. This inventory included private companies, business and trading posts, schools and missions, Navajo Tribal Utility Authority systems, and tribally operated wells.

Recently completed inventories identified 302 stock and domestic wells and 205 stock and domestic springs on the Hopi Reservation. A previous study identified 23 additional Hopi public water supply wells.

There are 45 wells and springs on the San Juan Southern Paiute Lands. Of these, at least 40 have stock use, 35 have domestic use and 9 have irrigation use. The Zuni Reservation has 10 wells and springs. Of these, 5 have stock use, 6 have domestic use, 2 have irrigation use and several have religious use. The White Mountain Apache Reservation has 2 wells with municipal, domestic, commercial and industrial, and recreational uses. An inventory of wells and springs for domestic, municipal and stock uses is provided in Table IV.

Future additional municipal and domestic uses will occur throughout the Reservations by expanding the present communities and by changing from water hauling practices to the public water supply systems. The future water demand for the Navajo, Hopi, and San Juan Southern Paiute is based on the population projections to 2040.

The sources of water for both present and future use is ground water in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations. The municipal and domestic uses by Reservation are listed in Table V.

Table IV Inventory of Wells and Springs

Tribe	Wells & Springs
Navajo	1,607
Hopi	507
San Juan Southern Paiute	45
White Mountain Apache	2
Zuni	10
Total	2,171

Table V Municipal and Domestic Water Use

Tribe	Present Domestic Use (AF)	Future Additional Use (AF)	Total Use (AF)
Navajo	10,481	25,199	35,680
Hopi	1,793	4,367	6,160
San Juan Southern Paiute	36	88	123
White Mountain Apache	323	777	1,100
Zuni	24	59	83
Total	12,657	30,490	43,146

RECREATION WATER USE

Description of Water Use

Present recreation water use is for camping, fishing and evaporation from lakes and reservoirs. Proposed additional future water uses include additional lakes and related facilities on the Reservations.

Location and Source of Water Use

The recreational water sources are located on all the Reservations. The sources of water for recreational uses are the watersheds tributary to the lakes and reservoirs. The Navajo Reservation has 58 current, and 4 future lakes and reservoirs. The Hopi Reservation has 4 current, and 3 future lakes and reservoirs. There are two wells on the White Mountain Apache Reservation which also serve recreational uses.

Table VI Recreational Water Use

Tribe	Present Recreational Use (AF)	Future Recreational Use (AF)	Total Recreational Use (AF)
Navajo	2,236	227	2,463
Hopi	80	151	231
White Mountain Apaches	162	26	188
Total	2,478	404	2,882

RELIGIOUS WATER USES

Description

The Zuni Pueblo in Arizona has current and recent use of water for religious purposes near the confluence of the Little Colorado and Zuni Rivers (Zuni Heaven). The source of water is surface water from the Little Colorado River and its tributaries, lakes and springs, and groundwater.

Location and Source of Water Use

The Pueblo of Zuni has used the Zuni Reservation in Arizona, known as Kolhu/wala:wa or "Zuni Heaven" for traditional religious purposes since time immemorial. The uses associated with the area include traditional religious and cultural uses requiring sufficient water to restore and maintain the lakes, springs and riparian habitat. The total water use is currently under investigation and this claim will be supplemented upon completion of such investigation.

STOCK WATER USE

Description of Water Use

Stock water use is based on an estimated average volume and a single annual fill of the stockponds. This volume includes, among other losses, losses due to evaporation and stock water use.

Location and Source of Water Use

The Navajo Nation is currently compiling a recently completed inventory that has, to date, identified 2,422 stockponds on the Navajo Reservation and other tribal land. An additional 535 stockponds on the Hopi Reservation have been investigated or mapped. 29 stockponds are located on the Zuni Pueblo and 22 are on the San Juan Southern Paiute Land.

Additional future stockpond usages will be located throughout the Reservations.

The sources of water for both present and future stock water purposes is ground water present in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations. Water can also come from surface runoff. The stockpond facilities are summarized in Table VII

Table VII Stockpond, Lake and Reservoir Water Use

Tribe	Stockpond Use (AF)	Future Stockpond Use (AF)	Total Stockpond Use (AF)
Navajo	20,829	675	21,504
Hopi	4,601	176	4,777
San Juan Southern Paiute	189	12	201
Zuni	249	10	259
Total	25,868	873	26,741

INDUSTRIAL WATER USE

Description of Water Use

Water consumed for processing, light industries, steam power plant cooling and other miscellaneous industrial applications.

Location and Source of Water Use

The sources for present and future additional industrial water use are primarily the N-aquifer (mainly Navajo Sandstone) and the C-aquifer (Coconino Sandstone). Other aquifers throughout the Reservations may provide water for industrial applications. The Navajo Nation has 338 wells with industrial use. Both of the White Mountain Apache wells serve industrial uses. The industrial water uses are presented in Table VIII.

Table VIII Industrial Water Use

Tribe	Present Industrial Use (AF)	Future Additional Use (AF)	Total Industrial Use (AF)
Navajo	129	31,970	32,099
Hopi	0	1,102	1,102
White Mountain Apache	162	0	162
Total	291	33,072	33,363

MINING WATER USE

Description of Water Use

Water consumption for pipeline slurry, dust control, construction, potable purposes, evaporation from sedimentation ponds and related mining activities.

Location and Sources of Water Use

The location of present mining uses are at the Peabody Coal Company mine on Black Mesa. Future mining activities may be located throughout the Reservations. Additional future uses will result from development of future sedimentation ponds which will be located at or near future mining sites. There are 56 wells on the Navajo Reservation which serve mining uses. The current and funire uses on the Navajo and Hopi reservations are listed in Table IX.

Sources of mining water use will be primarily from the N-Aquifer (mainly Navajo Sandstone) and C-Aquifer (mainly Coconino Sandstone). However, groundwater in other aquifers and water bearing rocks and deposits may be used. Additional water is derived from surface runoff.

Table IX Mining Water Use

Tribe	Present Mining Use (AF)	Future Mining Use (AF)	Total Mining Use (AF)
Navajo & Hopi	8,449	11,065*	19,514
Total	8,449	11,065	19,514

*-Aggregated from the 1985 SOC (39-05-91441)

MAPS

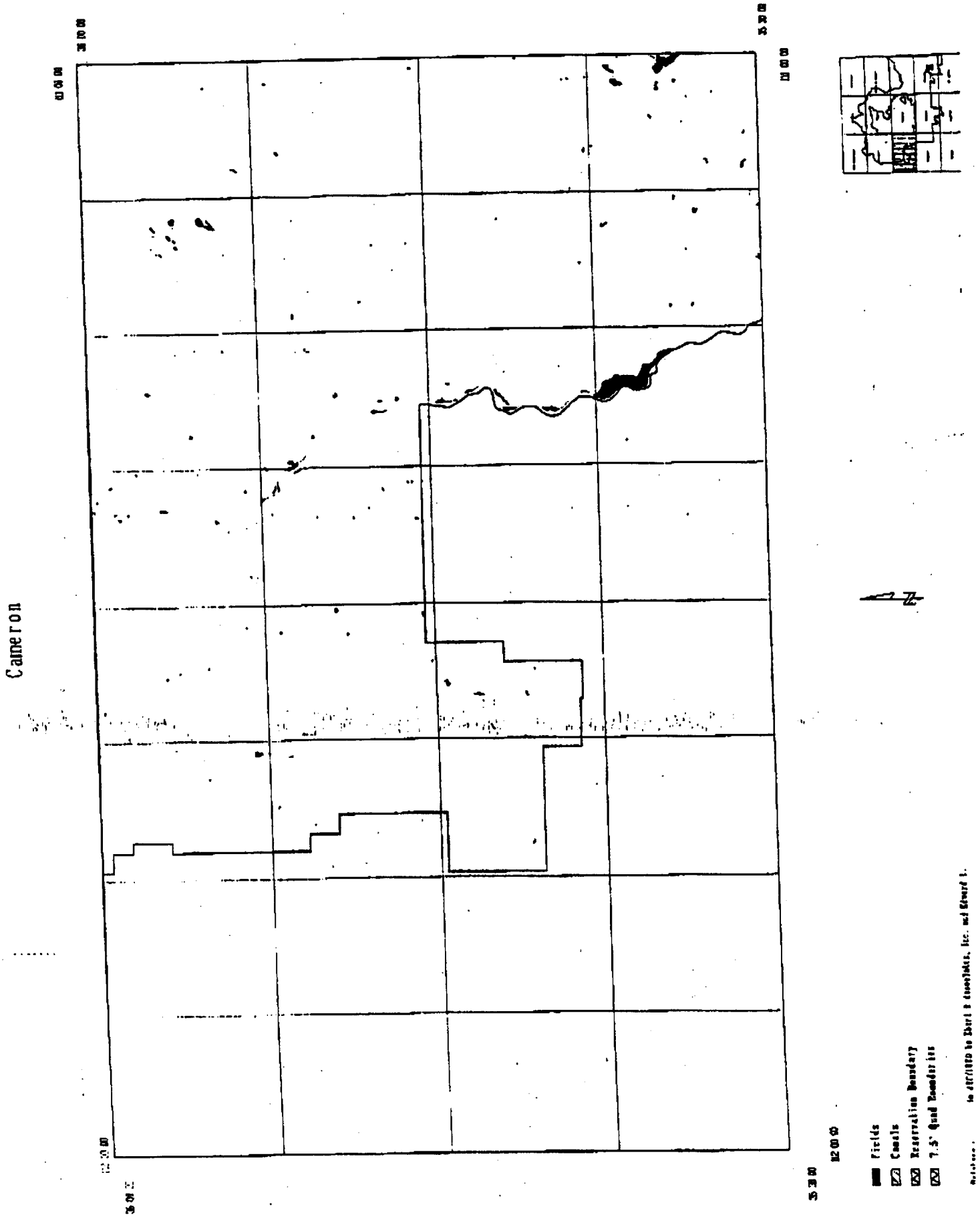


Photo Interpreted Existing and Historic Irrigated Lands - Cameron

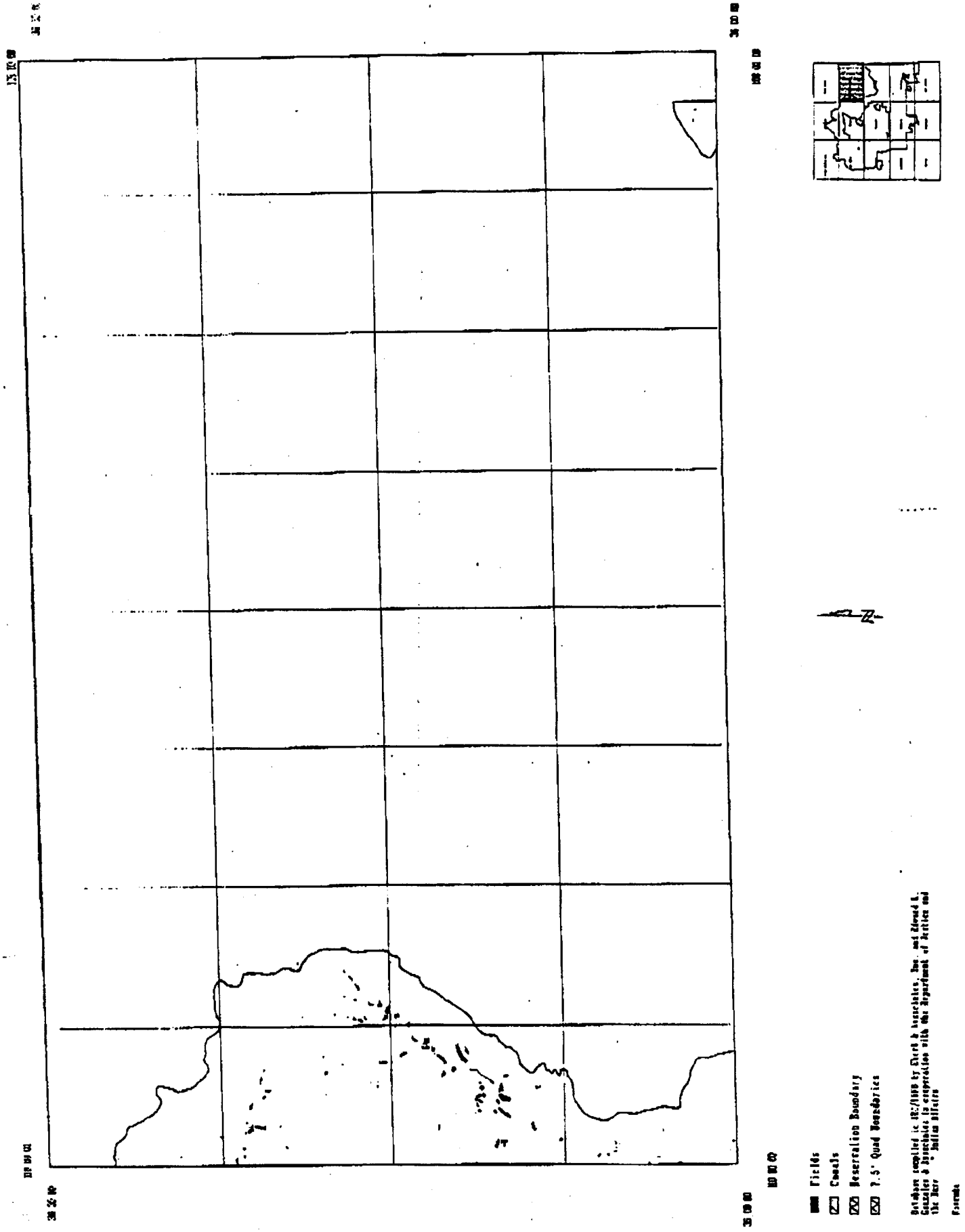


Photo Interpreted Existing and Historic Irrigated Lands - Canyon de Chelly

Photo Interpreted Existing and Historic Irrigated Lands - Flagstaff

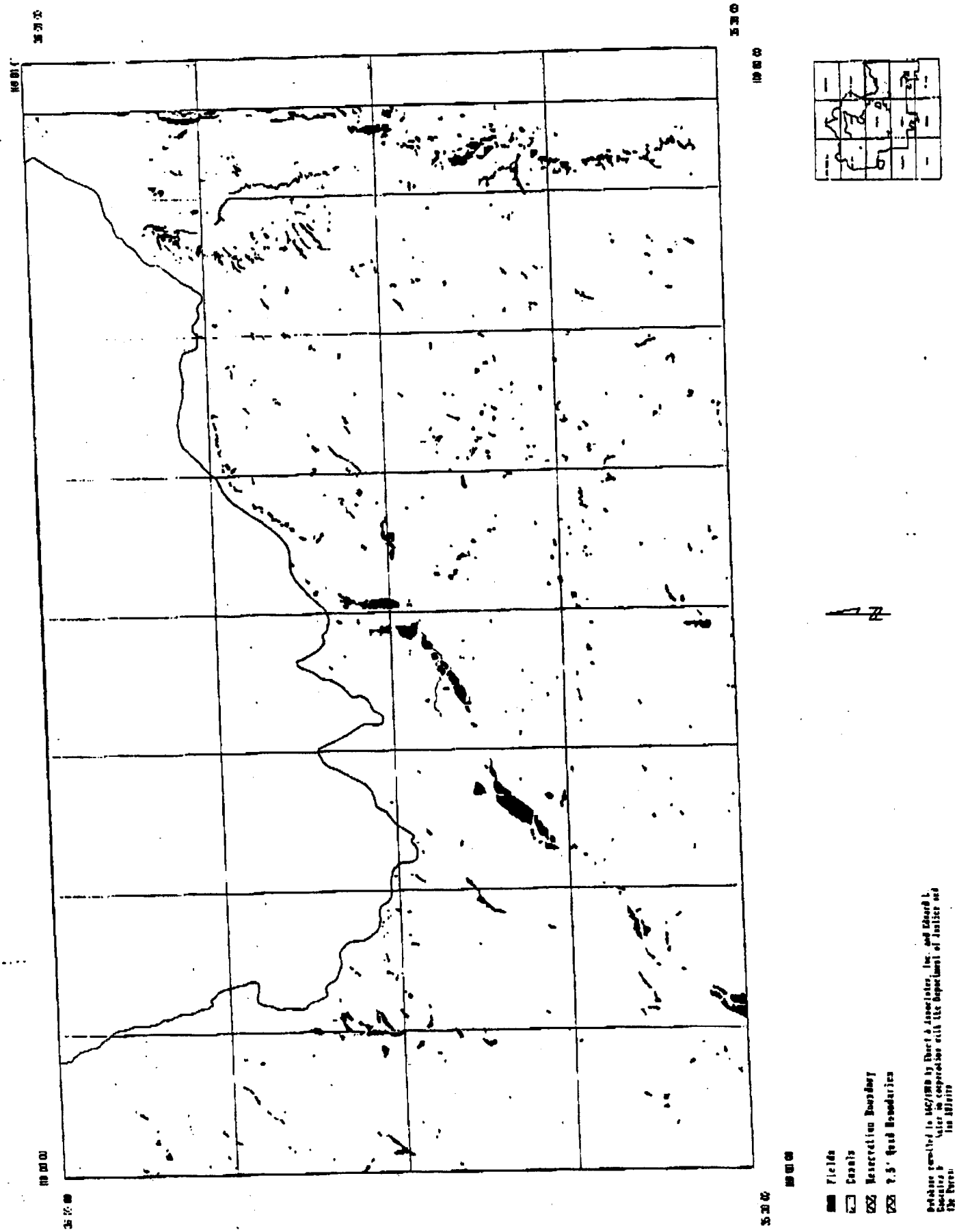


Photo Interpretation Existing and Historic Irrigated Lands - Ganado

Photo Interpreted Existing and Historic Irrigated Lands - Glen Canyon Dam

Photo Interpreted Existing and Historic Irrigated Lands - Holbrook

Photo Interpreted Existing and Historic Irrigated Lands - Kayenta

Navajo

Photo Interpreted Existing and Historic Irrigated Lands - Pinon

Photo-Interpreted Existing Historic Irrigated Lands

Polacca

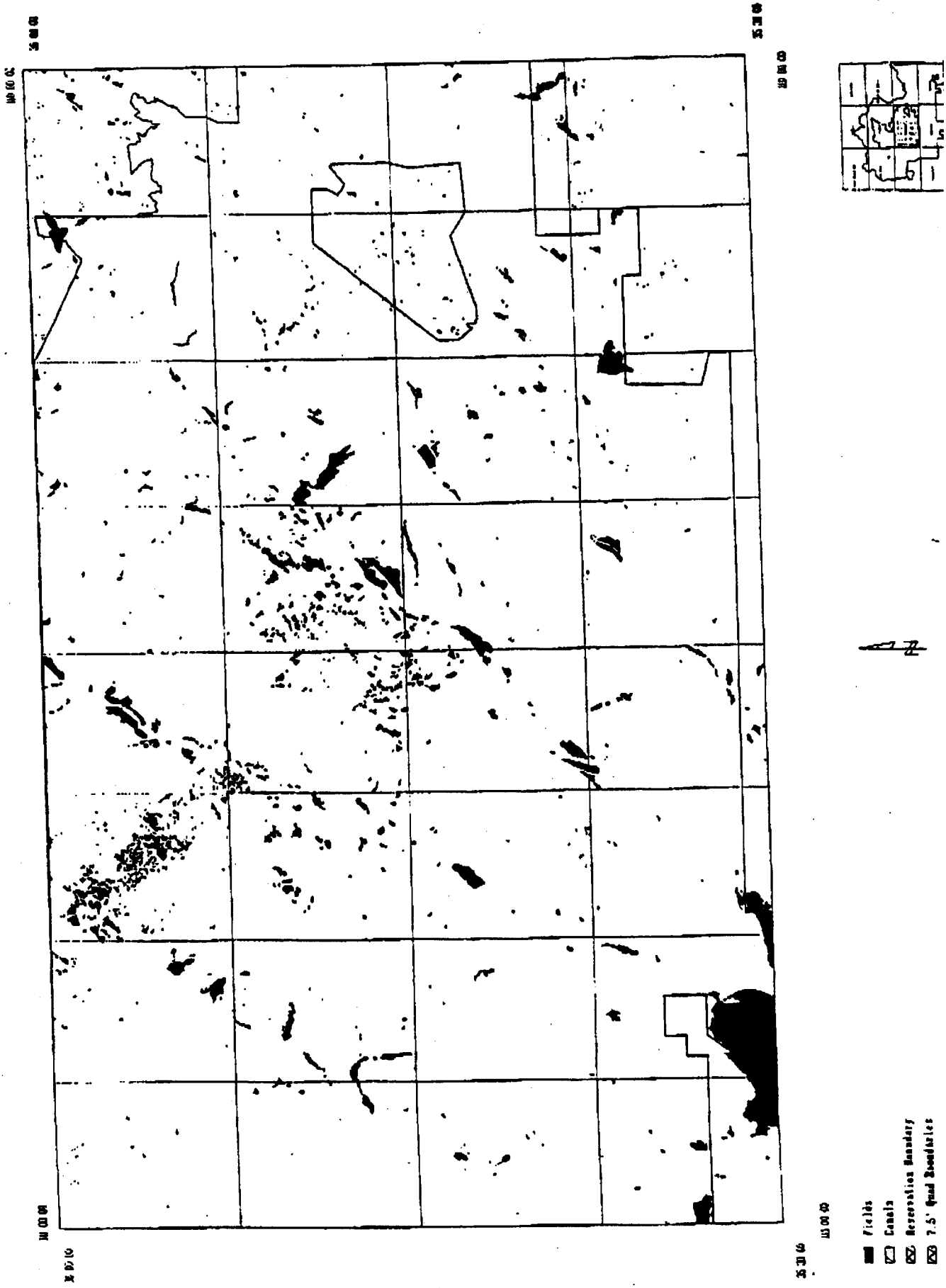


Photo-Interpreted Existir & Historic Irrigated Lands

Sanders

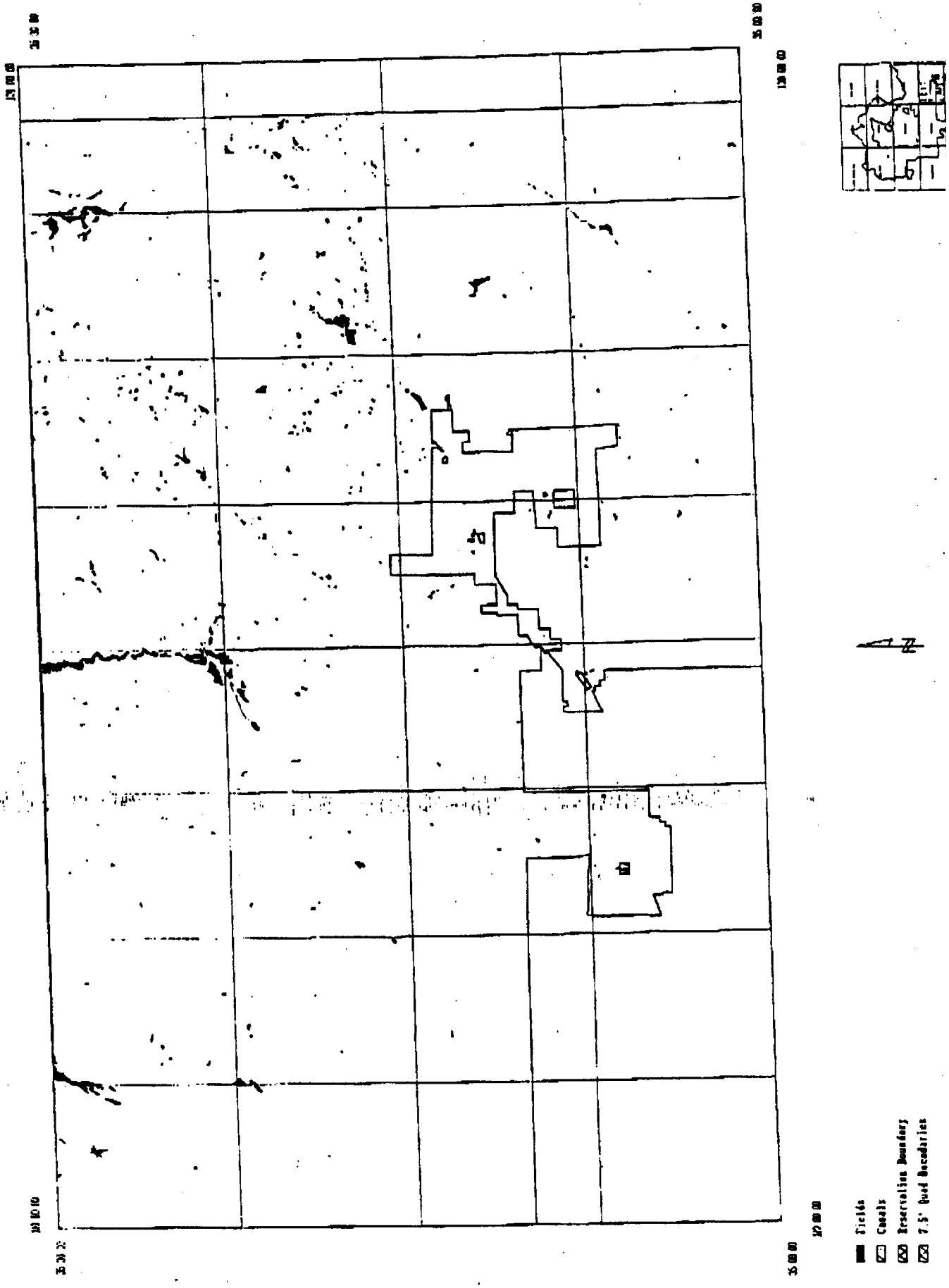


Photo ~~Interpreted Existing and Historic Irrigated Lands~~ - Sanders

Photo-Interpreted Existing & Historic Irrigated Lands

St. Johns

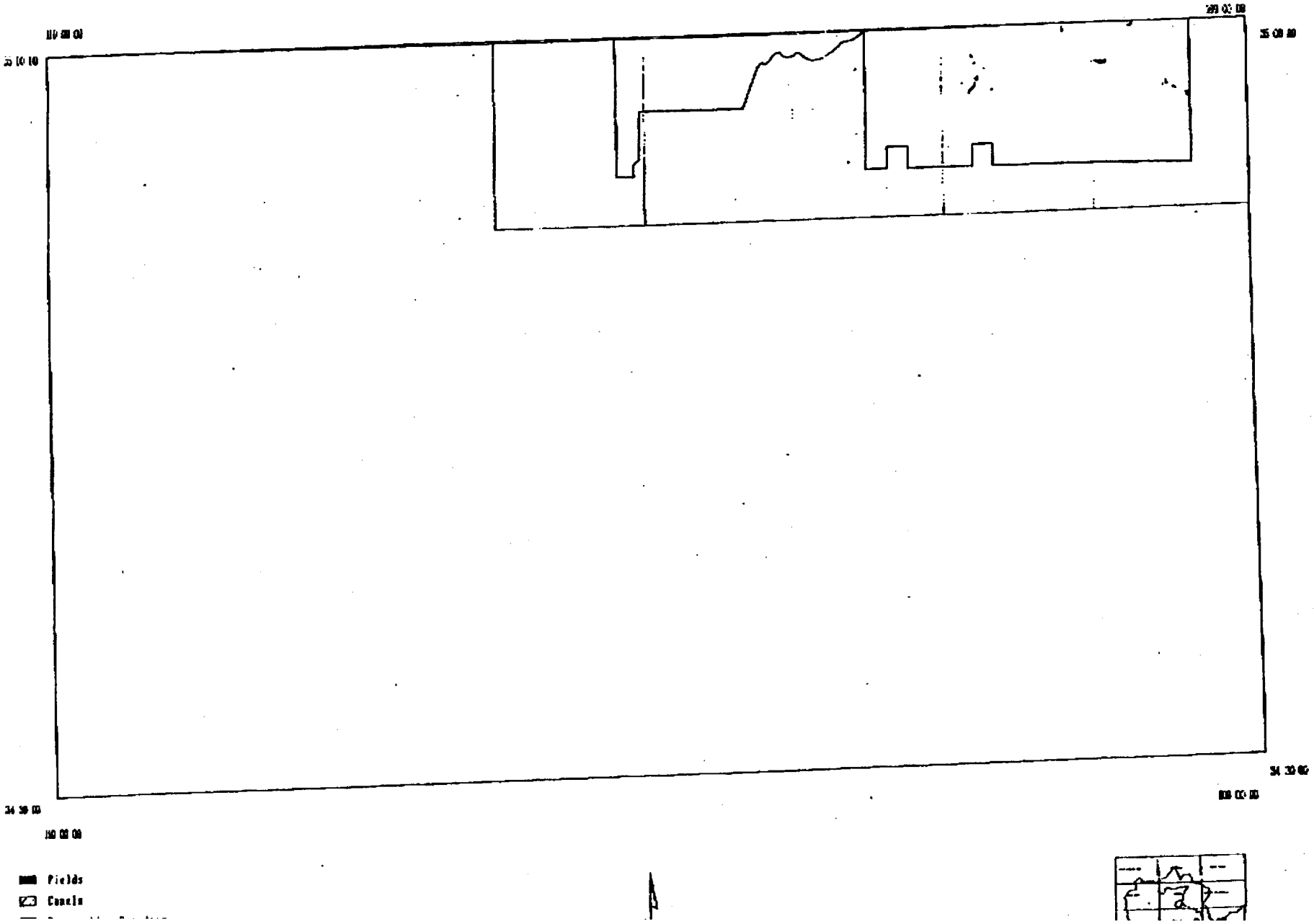


Photo-Interpreted Existing and Historic Irrigated Lands - St. Johns

Photo-Interpreted Existing & Historic Irrigated Lands

Tuba City

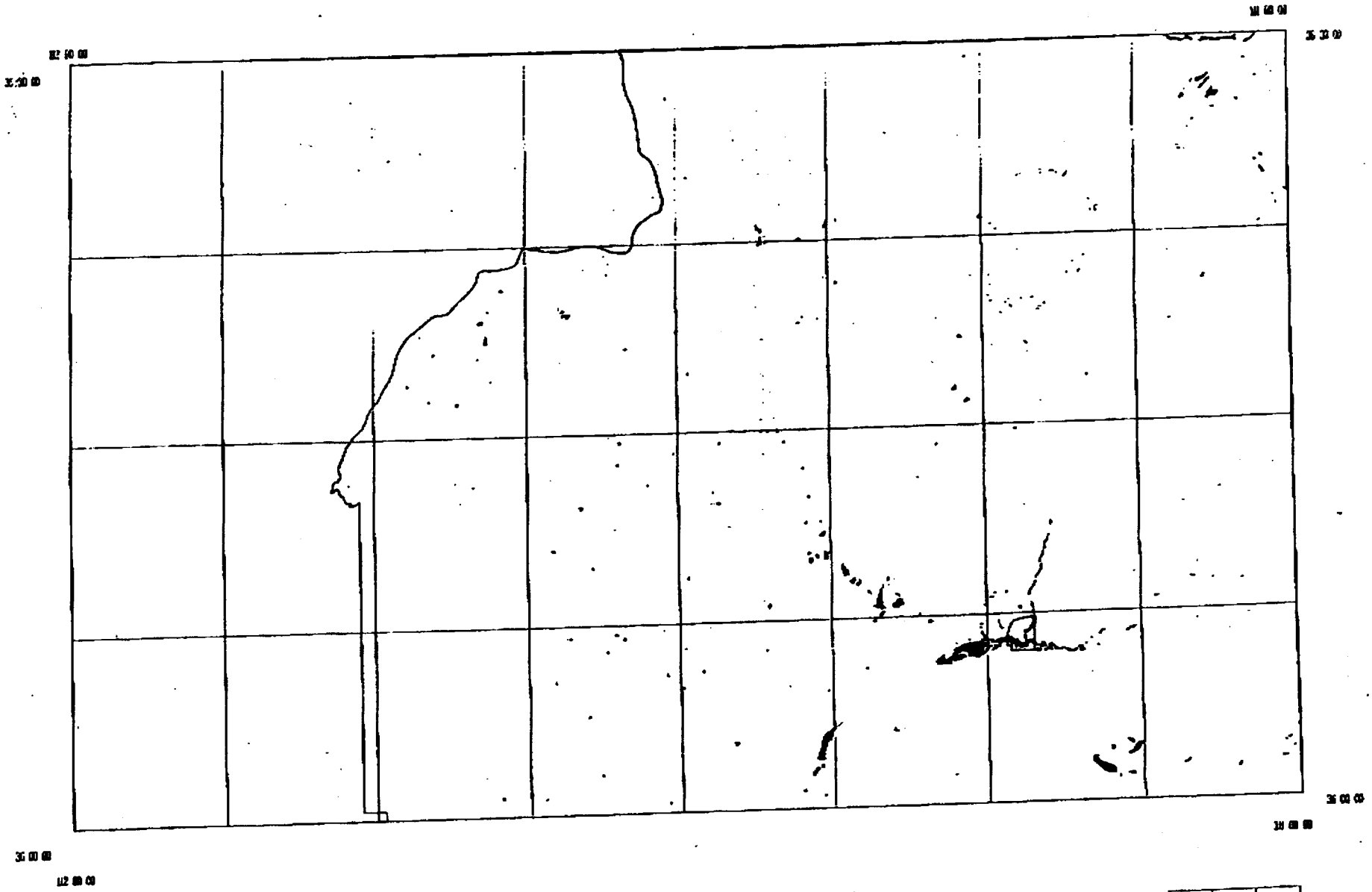


Photo Interpreted Existing and Historic Irrigated Lands - Tuba City

Photo-Interpreted Existing & Historic Irrigated Lands

Winslow

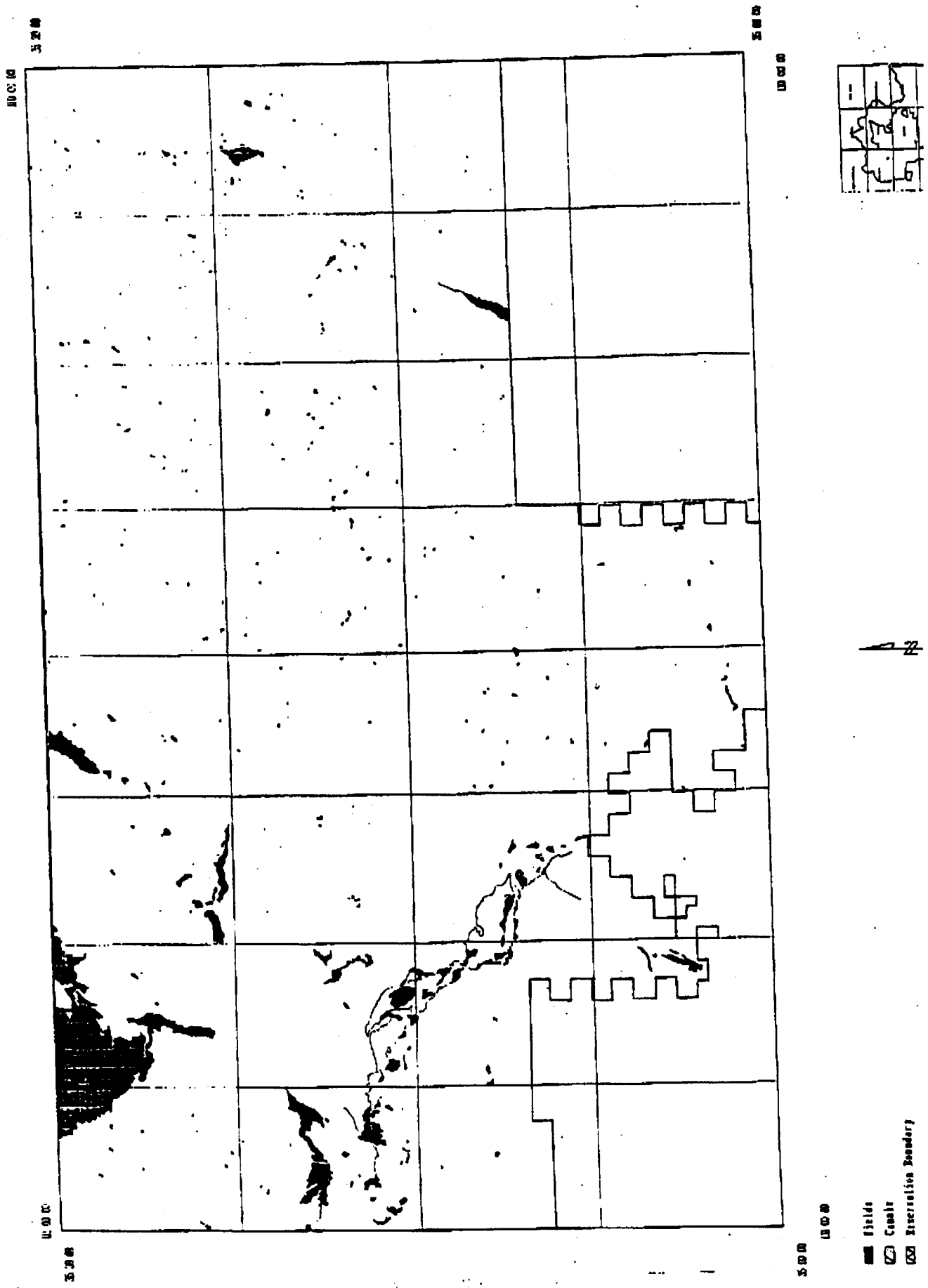
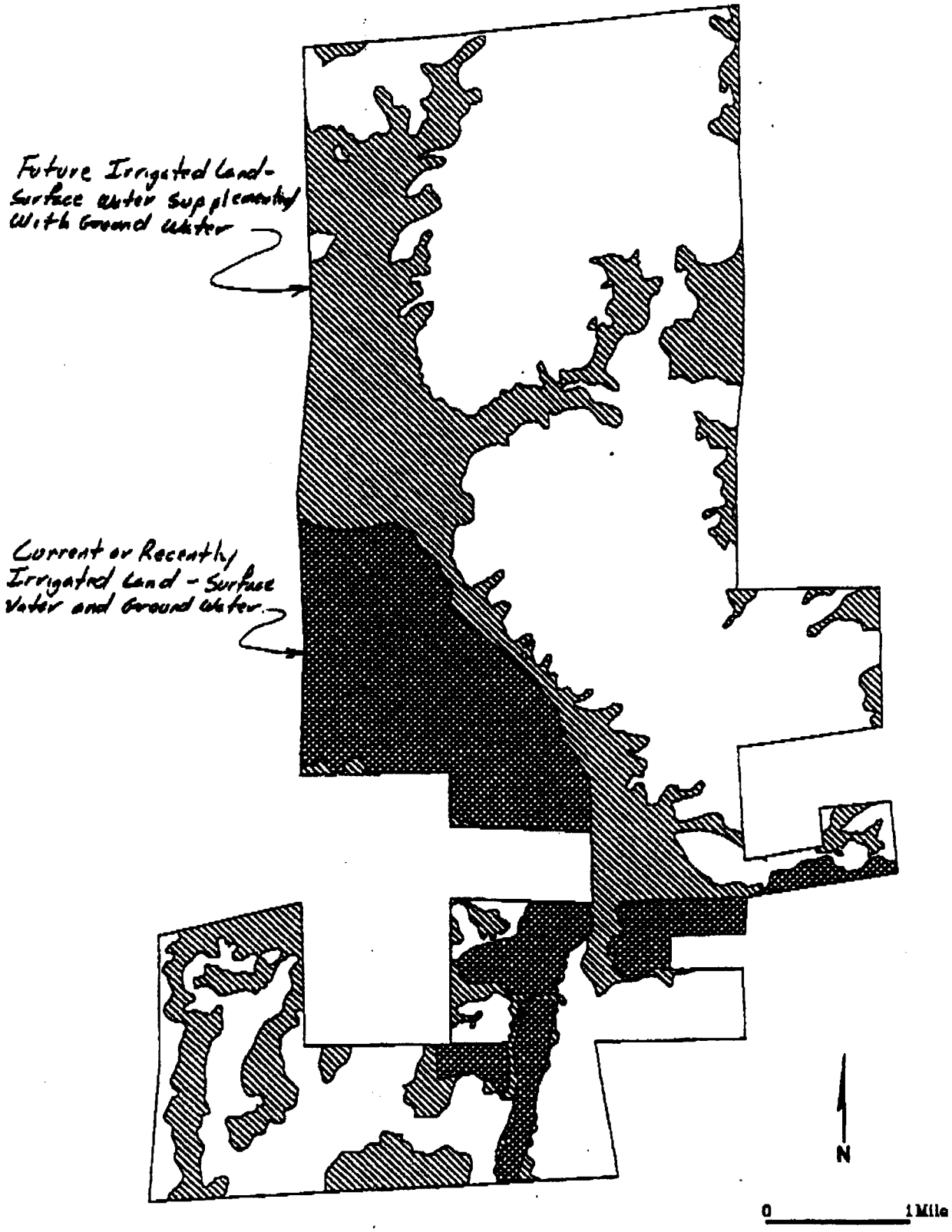


Photo Interpreted Existing and Historic Irrigated Lands - Winslow

A copy of the foregoing United States Statement of Amended Claims mailed this 23rd day of November, 1994, to all parties on the Court-approved mailing list dated November 10, 1994.

Gail P. Robinson

Gail P. Robinson


Future Irrigated Land-
Surface water supplemented
With Ground water
Current or Recently
Irrigated Land - Surface
Water and Ground Water
N
0
1 Mile

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2442
Fax (602) 417-2401

FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

January 5, 1995

Bradley S. Bridgewater, Esq.
U.S. Department of Justice
999 18th Street, Suite 945
Denver, Colorado 80202

Dear Mr. Bridgewater:

In response to your pleading and the attached report entitled "Amended Water Claims By The United States Of America For The Indian Lands In The Little Colorado River Basin", dated November 22, 1994, the Arizona Department of Water Resources (DWR) is requesting further clarification. As you are aware, the role of DWR is to provide administrative and technical assistance to the Apache County Superior Court for the Little Colorado River General Adjudication. This support includes receiving, recording, processing, and examining all statements of claimant (SOCs) and their subsequent changes or amendments.

Your November 22, 1992 amendments blanket all tribes in the Little Colorado River basin without any reference to the SOC(s) which correspond to the water use figures listed in the attached report. In order for DWR to properly amend the original SOC's filed by the United States on behalf of these tribes, DWR needs to know which SOC(s) pertains to the amended water use figures. Currently, DWR has only one SOC on record that has been filed by the United States on the tribes behalf; this SOC is No. 39-91441 submitted on behalf of the Navajo and Hopi Tribes. If some of the water use figures pertain to SOCs filed by the Tribes, each Tribe is required to file amendments to those SOCs to have them legally amended.

If you have any questions, please feel free to call me or Michael Winn at (602) 417-2442.

Sincerely,

Donald J. Gross, P.E.

Donald J. Gross, P.E.
Chief, Investigations Section
Adjudications Division

cc: William White
Michael Winn
Lisa Jannusch

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N. 3rd Street, Phoenix, Arizona 85004
Telephone (602) 417-2442
Fax (602) 417-2401

April 13, 1995

FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

Bradley S. Bridgewater, Esq.
U.S. Department of Justice
999 18th Street, Suite 945
Denver, Colorado 80202

Dear Mr. Bridgewater:

On January 5, 1995, the Department of Water Resources (DWR) sent a letter requesting further clarification to your pleading and the attached report entitled "Amended Water Claims By The United States Of America For The Indian Lands In The Little Colorado Basin", dated November 22, 1994, November 22, 1992. These amendments blanket all tribes in the Little Colorado River basin without any reference to the SOC(s) which correspond to the water use figures listed in the attached report. To date, we have received no response from you concerning DWR's request.

As mentioned in the original letter, in order for DWR to properly amend the original SOC's by the United States on behalf of these tribes, DWR needs to know which SOC(s) pertains to the amended water use figures. Currently, DWR has only one SOC on record that has been filed by the United States on the tribes behalf; this SOC is No. 39-91441 submitted on behalf of the Navajo and Hopi Tribes. If some of the water use figures pertain to SOCs filed by the Tribes, each Tribe is required to file amendments to those SOCs to have them legally amended.

If you have any questions, please feel free to call me or Michael Winn at (602) 417-2442.

Sincerely,

Donald J. Gross, P.E.

Donald J. Gross, P.E.
Chief, Investigations Section
Adjudications Division

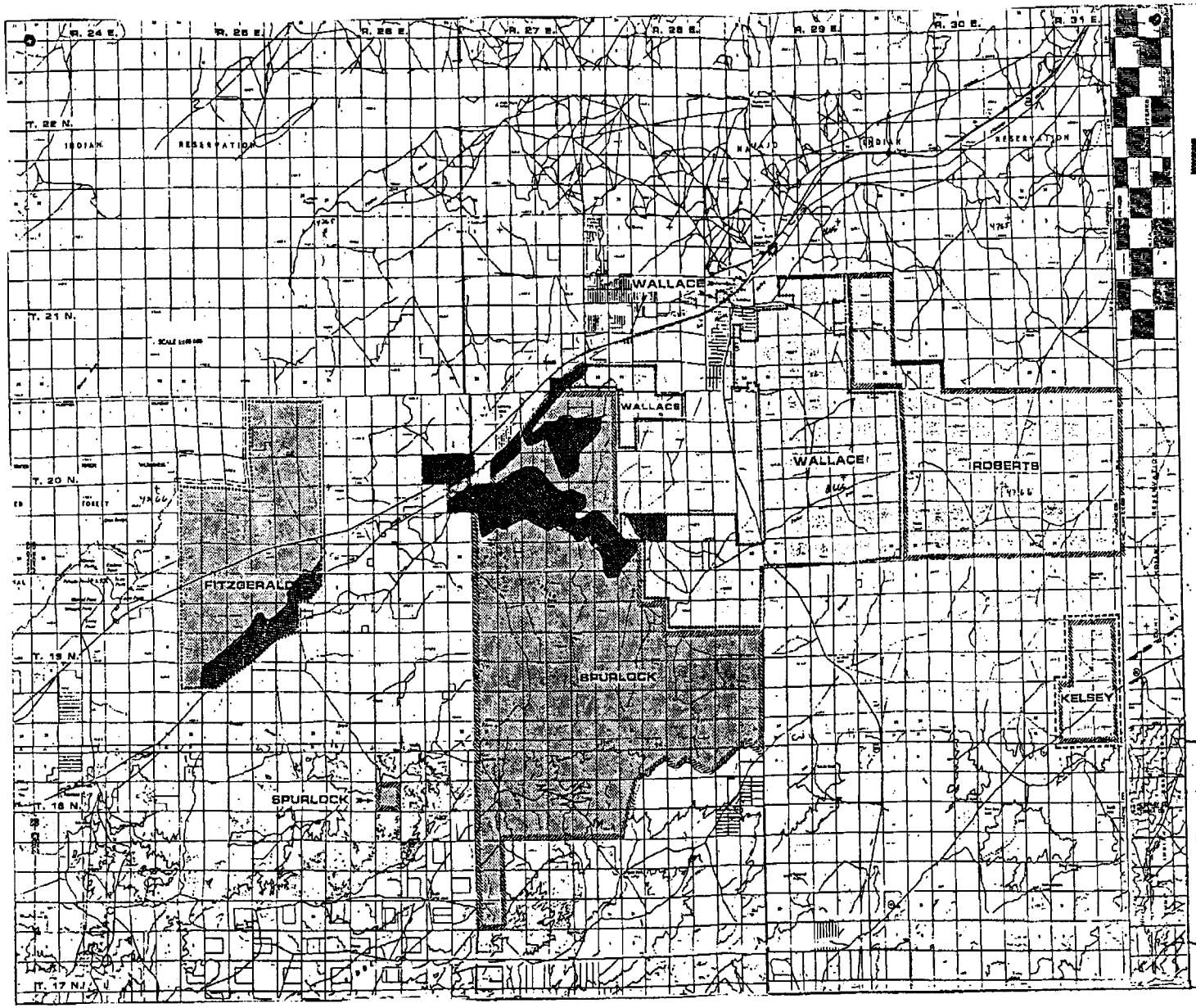
cc: William White
Michael Winn
Lisa Jannusch

TABLE 3-1

STATEMENT OF CLAIMANT NO. 39-03-91443 FILED BY THE HOPI TRIBE
SUMMARY OF CLAIMED WATER USES FOR THE HOPI INDIAN RESERVATION
INCLUDING RESERVATION LANDS NEAR MOENKOPI, THE HOPI PARTITIONED LANDS, AND THE HOPI INDUSTRIAL PARK

CLAIMED WATER USES	CURRENT WATER USE (ACRE-FEET PER YEAR)	FUTURE WATER USES (ACRE-FEET PER YEAR)	CURRENT NUMBER OF IRRIGATED ACRES	FUTURE NUMBER OF IRRIGATED ACRES	CURRENT NUMBER OF WELLS	FUTURE NUMBER OF WELLS	CURRENT NUMBER OF SURFACE WATER DIVERSIONS	FUTURE NUMBER OF SURFACE WATER DIVERSIONS	CURRENT NUMBER OF IRRIGATION STORAGE RESERVOIRS OR RECREATIONAL LAKES	FUTURE NUMBER OF IRRIGATION STORAGE RESERVOIRS OR RECREATIONAL LAKES	CURRENT NUMBER OF STOCKPONDS	FUTURE NUMBER OF STOCKPONDS	TOTAL CLAIMED WATER USE (ACRE-FEET PER YEAR)
IRRIGATION (SURFACE WATER)	10,114	60,915	7,807[1]	4,370	N/A	N/A	86[2]	-[3]	N/A	N/A	N/A	N/A	71,029
IRRIGATION (GROUNDWATER)	1,250	15,780	289[1]	5,260	-[3]	-[3]	N/A	N/A	N/A	N/A	N/A	N/A	17,030
EVAPORATION FROM IRRIGATION STORAGE	188	9,359[4]	N/A	N/A	N/A	N/A	-	-	3	7[5]	N/A	N/A	9,545
DOMESTIC AND MUNICIPAL[6]	2,060	6,165	N/A	N/A	-[3]	-[3]	-[3]	-[3]	N/A	N/A	N/A	N/A	8,225
RECREATION[7]	80	151[8]	N/A	N/A	N/A	N/A	-	-	4	3	N/A	N/A	231
STOCKWATERING	635[9]	119[9]	N/A	N/A	504[10]	79[11]	-	-	N/A	N/A	N/A	N/A	754
STOCKPOND	869[12,13]	176[12,14]	N/A	N/A	N/A	N/A	-	-	N/A	N/A	414	89	1,045
INDUSTRIAL AND COMMERCIAL	0[15]	1,102	N/A	N/A	-[3]	-[3]	N/A	N/A	N/A	N/A	N/A	N/A	1,102
MINING AND RELATED INDUSTRY	2,325	29,120	N/A	N/A	-[3]	-[3]	N/A	N/A	N/A	N/A	N/A	N/A	31,445
TOTAL	17,519	122,887	8,096	9,630	504	79	66	-	7	10	414	89	140,406

[1]Figure has been rounded.
[2]Tabulated from legal descriptions found in Table 1 of SOC No. 39-03-91443.
[3]Not listed nor known.
[4]The SOC also claims a combined fill demand of 31,000 acre-feet plus the 59,640 acre-feet of the Hopis share of the first filling of the Leupp Reservoir for a total of 90,640 acre-feet.
[5]Includes the Leupp Reservoir.
[6]Domestic and municipal water uses were reported together. Table 5 of this SOC shows municipal use for 13 villages.
[7]Water use is for camping, fishing, and evaporation loss from recreational lakes.
[8]Does not include initial filling of 404 acre-feet.
[9]Includes livestock consumption and evaporation losses from tanks and troughs.
[10]This figure represents the total number of tanks and troughs supplied by groundwater. In Appendix 1 of the SOC, 185 stockwatering uses are reported as being supplied by a groundwater source, however, under DIVERSION TYPE, the source is indicated as being from springs.
[11]This figure represents the total number of tanks and troughs supplied by groundwater. In Appendix 1 of the SOC, 42 stockwatering uses are reported as being supplied by a groundwater source, however, under DIVERSION TYPE, the source is indicated as being from springs.
[12]Includes livestock consumption and evaporation losses from surface water stockponds.
[13]This figure was taken from Table 7 of the SOC and is 2 acre-feet less than figures derived from Appendix 1.
[14]Does not include a 286 acre-feet one-time first fill of future stockponds.
[15]Current commercial and light industry such as restaurants, grocery stores, etc. are included under municipal water use.



LEGEND

POTENTIALLY IRRIGABLE LANDS

N

SCALE IN MILES

0 4

MAP NO. 2

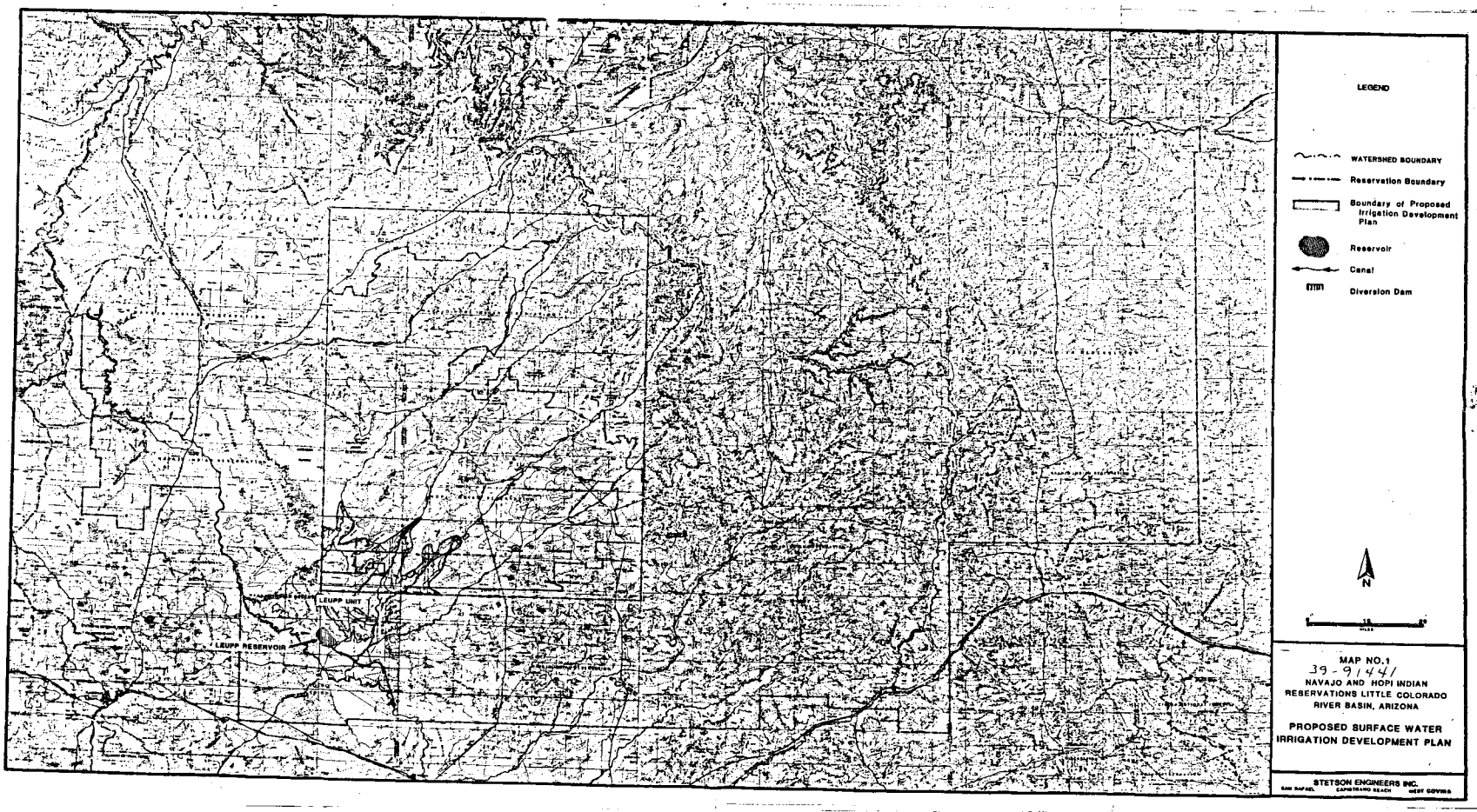
NAVAJO NATION NEW LANDS

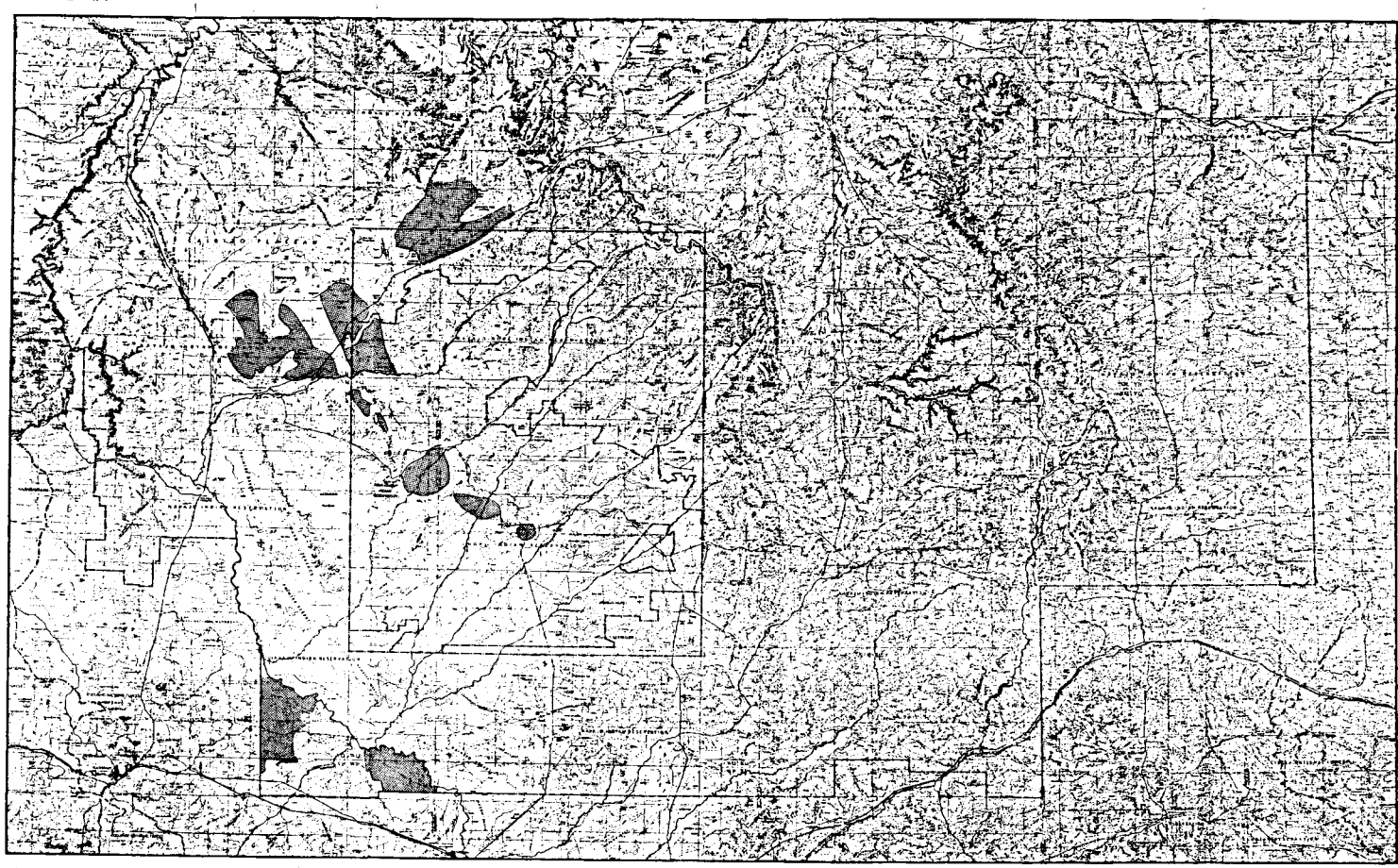
LITTLE COLORADO RIVER BASIN

PROPOSED GROUND WATER IRRIGATION DEVELOPMENT PLAN

STETSON ENGINEERS INC.

SAN RAFAEL CAPISTRANO BEACH WEST COVINA


LEUPP UNIT
LEUPP RESERVOIR
LEGEND
WATERSHED BOUNDARY
Reservation Boundary
Boundary of Proposed Irrigation Development Plan
Reservoir
Canal
Diversion Dam
N
MAP NO.1
39-9141
NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA
PROPOSED SURFACE WATER IRRIGATION DEVELOPMENT PLAN
STETSON ENGINEERS INC.



LEGEND

- Little Colorado River Basin Drainage Boundary
- Reservation Boundary
- Potentially Irrigable Land

N

39-91441

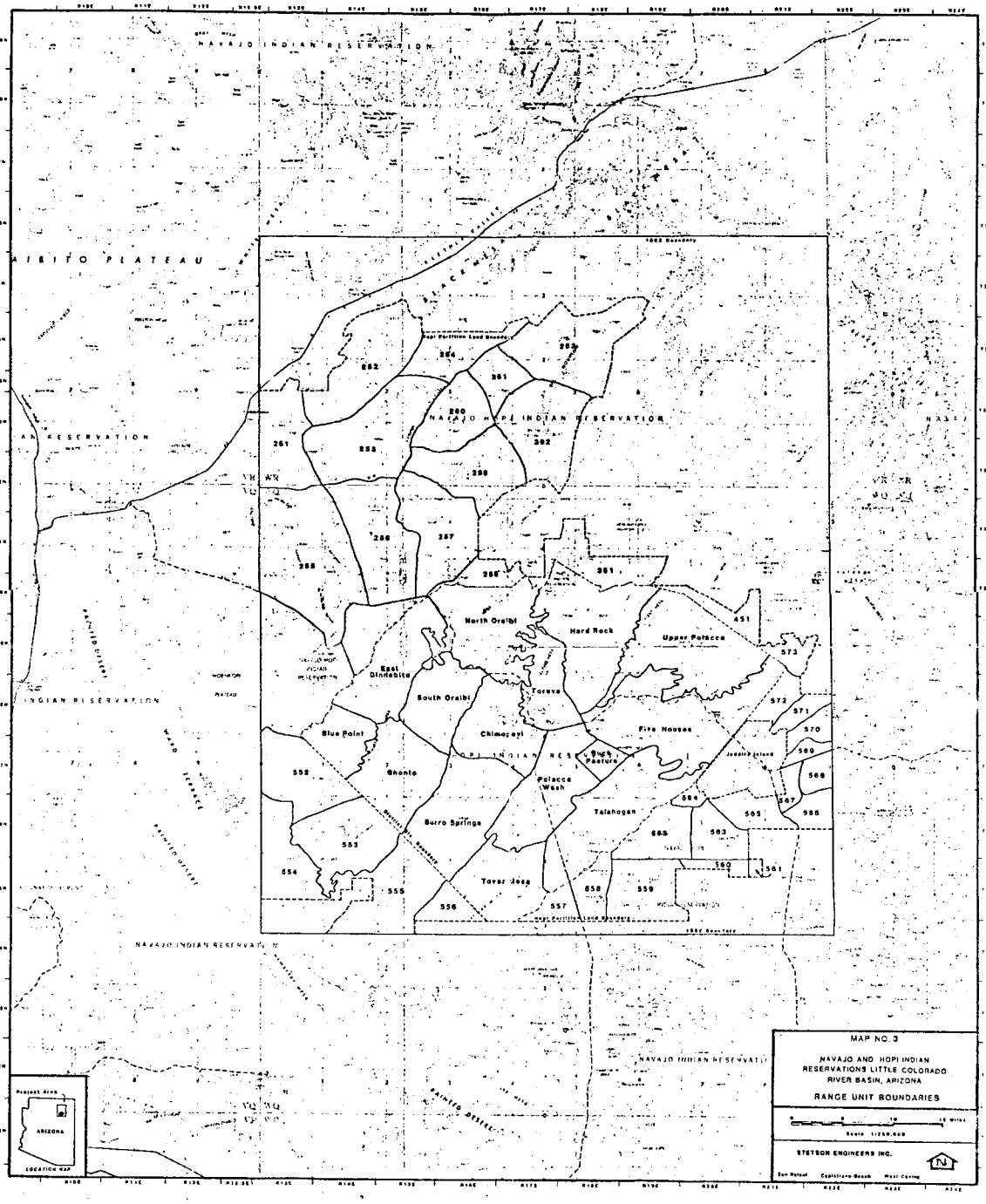
MAP NO. 2

NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

PROPOSED GROUND WATER IRRIGATION DEVELOPMENT PLAN

STETSON ENGINEERS INC.

San Rafael Capistrano Beach West Covina


NAVAJO INDIAN RESERVATION
AIBITO PLATEAU
NAVAJO HOPI INDIAN RESERVATION
INDIAN RESERVATION
North Oraibi
Hard Rock
Upper Polacca
East Oondedita
South Oraibi
Toreva
Blue Point
Chimoeyi
Fire Houses
Shonto
Polacca Wash
Talahogen
Burro Springs
Tovar Jeep
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
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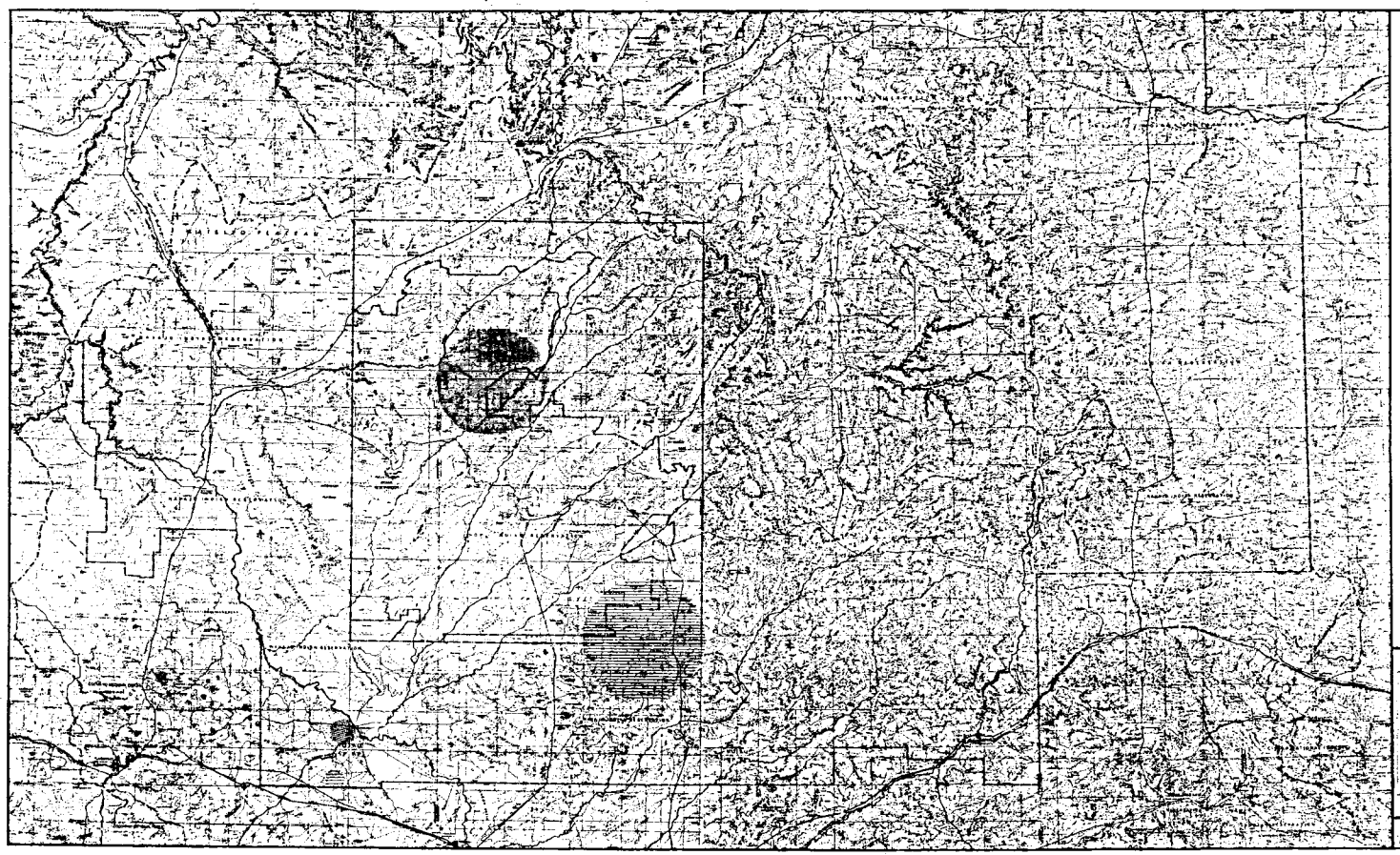
571
572
573
NAVAJO INDIAN RESERVATION
MAP NO. 3
NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA
RANGE UNIT BOUNDARIES
Scale 1:250,000
STETSON ENGINEERS INC.
Project Area
ARIZONA
LOCATION MAP



LEGEND

- Little Colorado River Basin Divide Boundary
- Coal Fired Power Plant
- Coal Mine and Slurry Operation
- Potatoe Processing
- Vegetable Canning and Beef Packing

39-91441

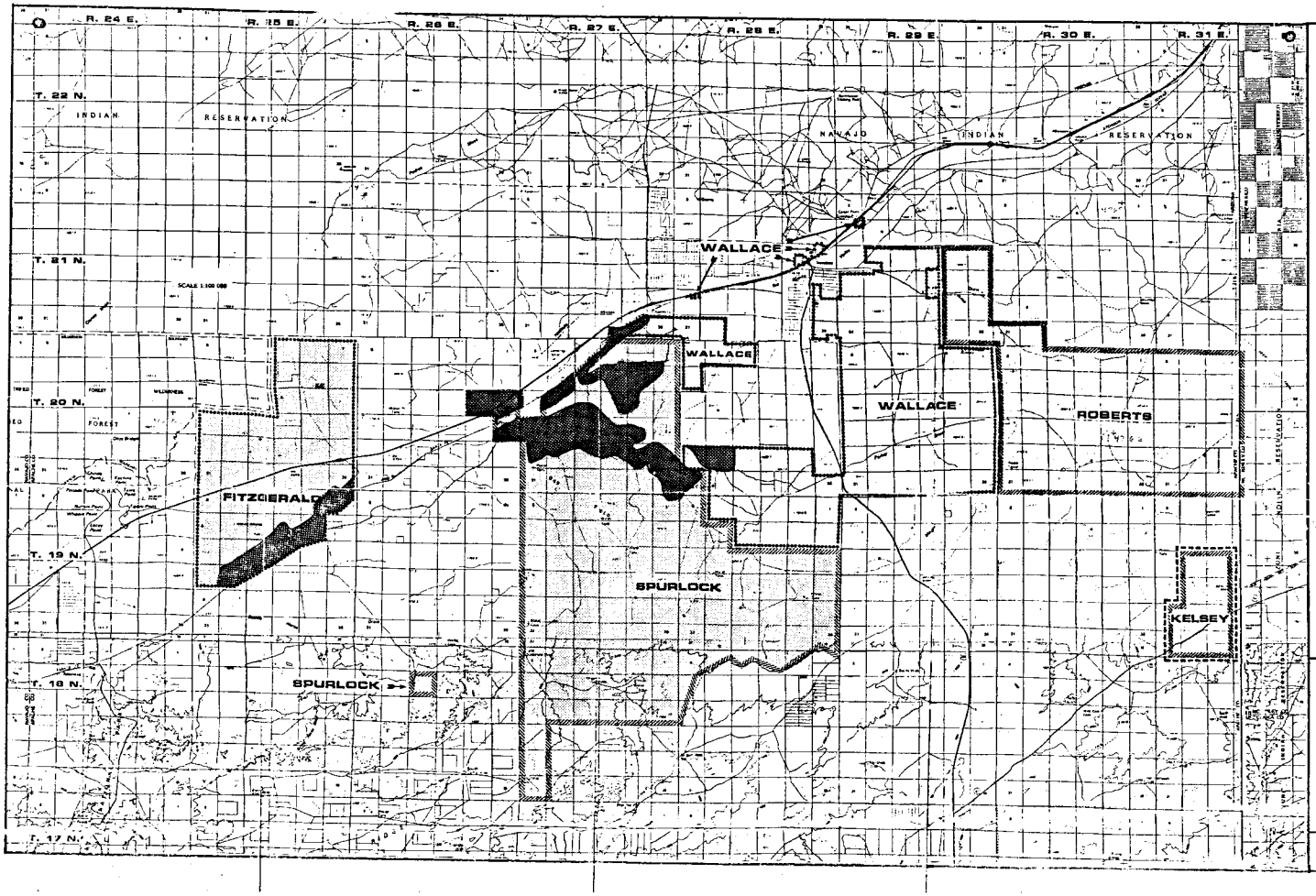
MAP NO. 14

NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

PRESENT AND FUTURE - MAJOR AND LIGHT INDUSTRIAL, AND MINING DEVELOPMENT

STETSON ENGINEERS INC.

San Rafael Capistrano Beach West Covina



LEGEND

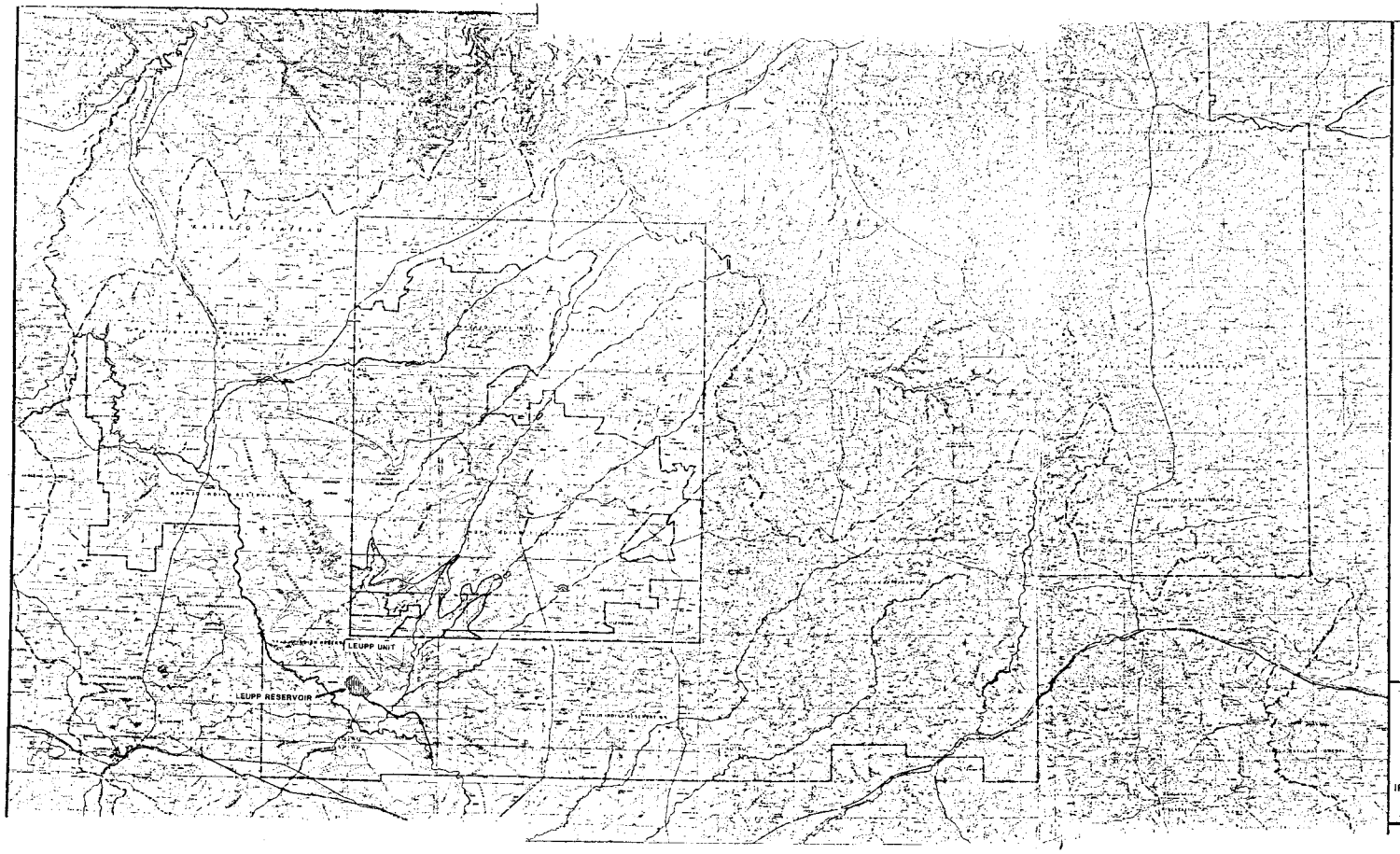
POTENTIALLY IRRIGABLE LANDS

MAP NO. 2

NAVAJO NATION NEW LANDS
LITTLE COLORADO RIVER BASIN

PROPOSED GROUND WATER IRRIGATION DEVELOPMENT PLAN

STETSON ENGINEERS INC.
SAN RAFAEL CAPISTRANO BEACH WEST COVINA



LEGEND

WATERSHED BOUNDARY

Reservation Boundary

Boundary of Proposed Irrigation Development Plan

Reservoir

Canal

Diversion Dam

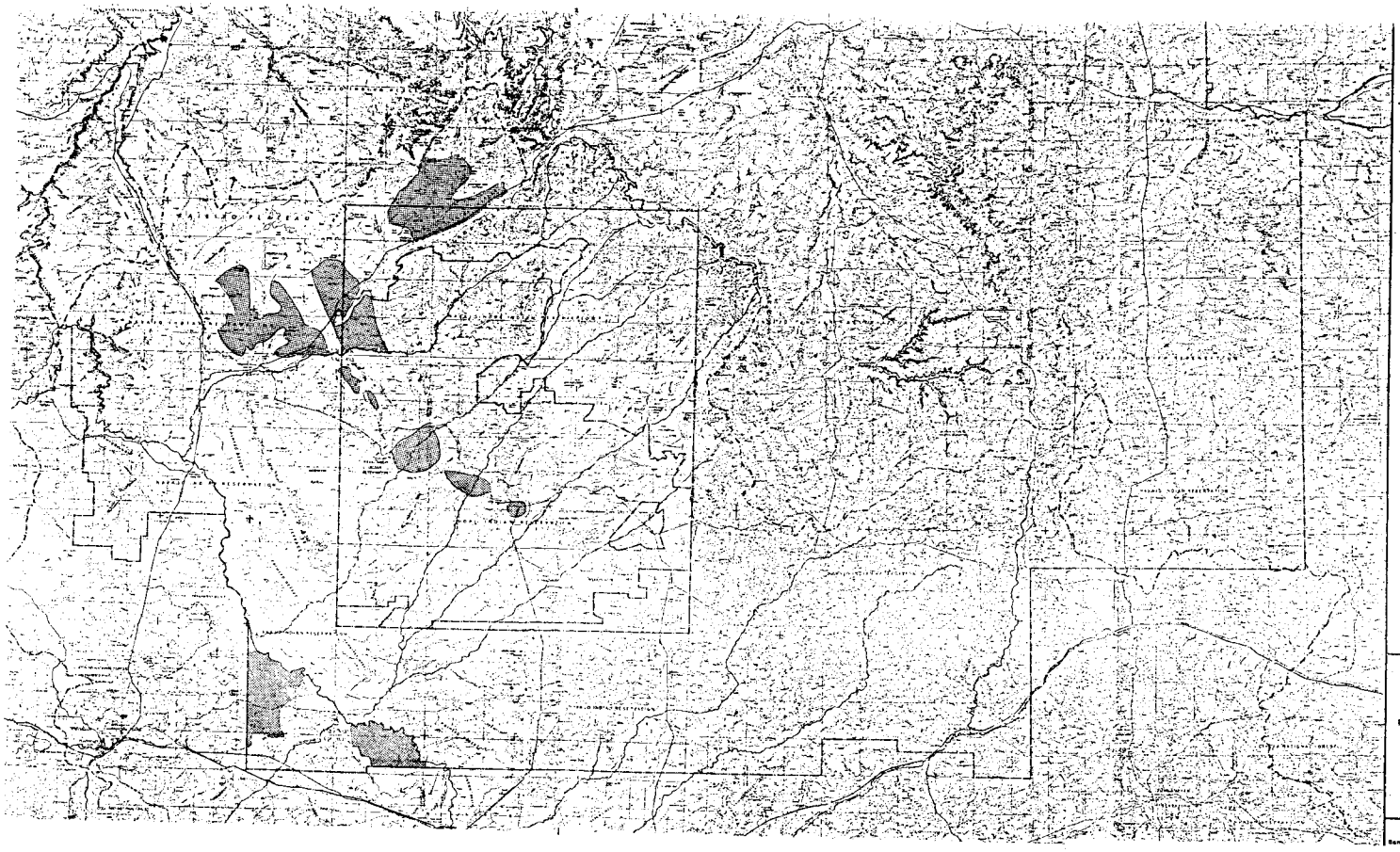
N

0 10 20

MAP NO. 1

NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

PROPOSED SURFACE WATER IRRIGATION DEVELOPMENT PLAN



LEGEND

Little Colorado River Basin Drainage Boundary

Reservation Boundary

Potentially Irrigable Land

N

0 10 20 MILES

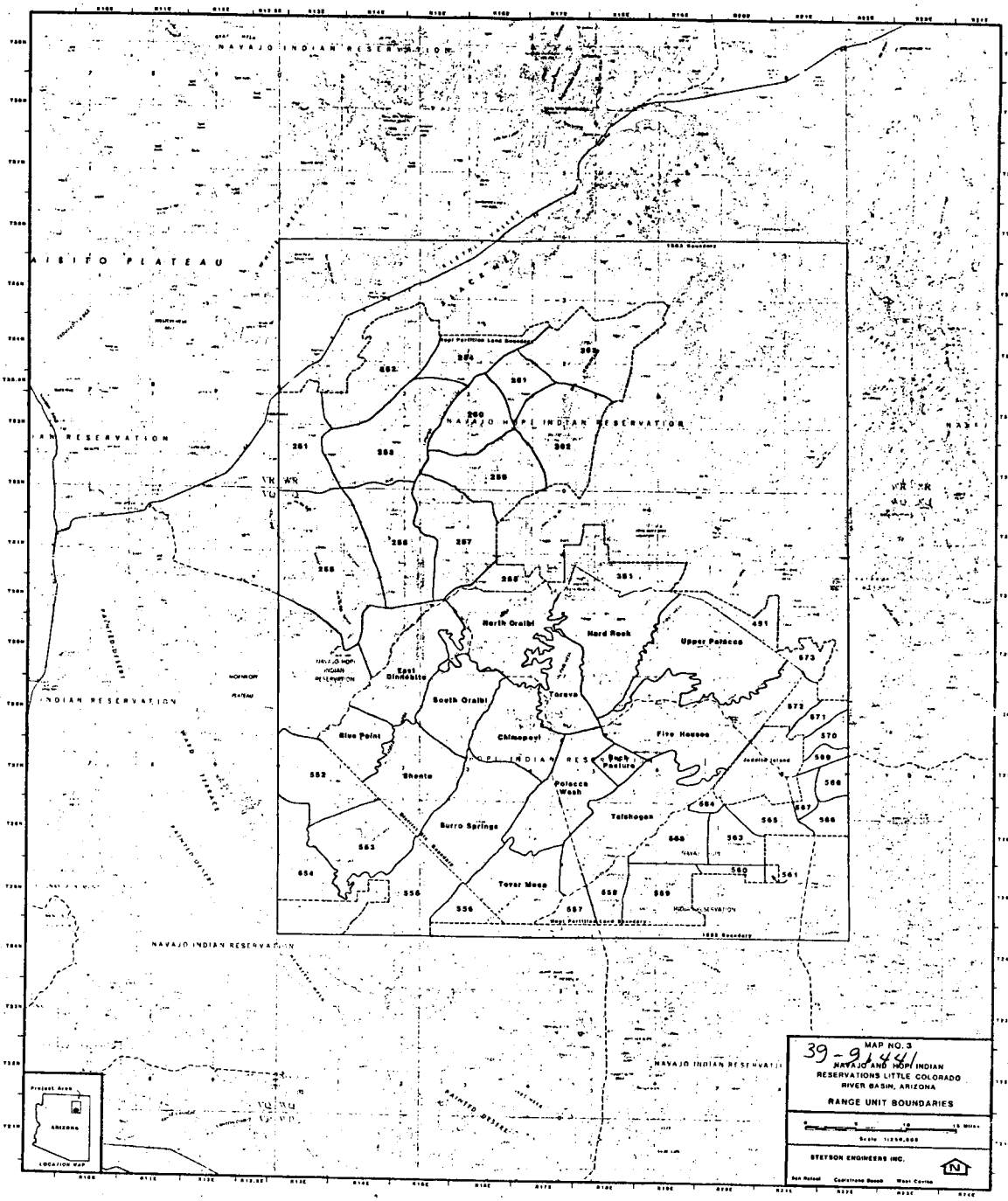
MAP NO. 2

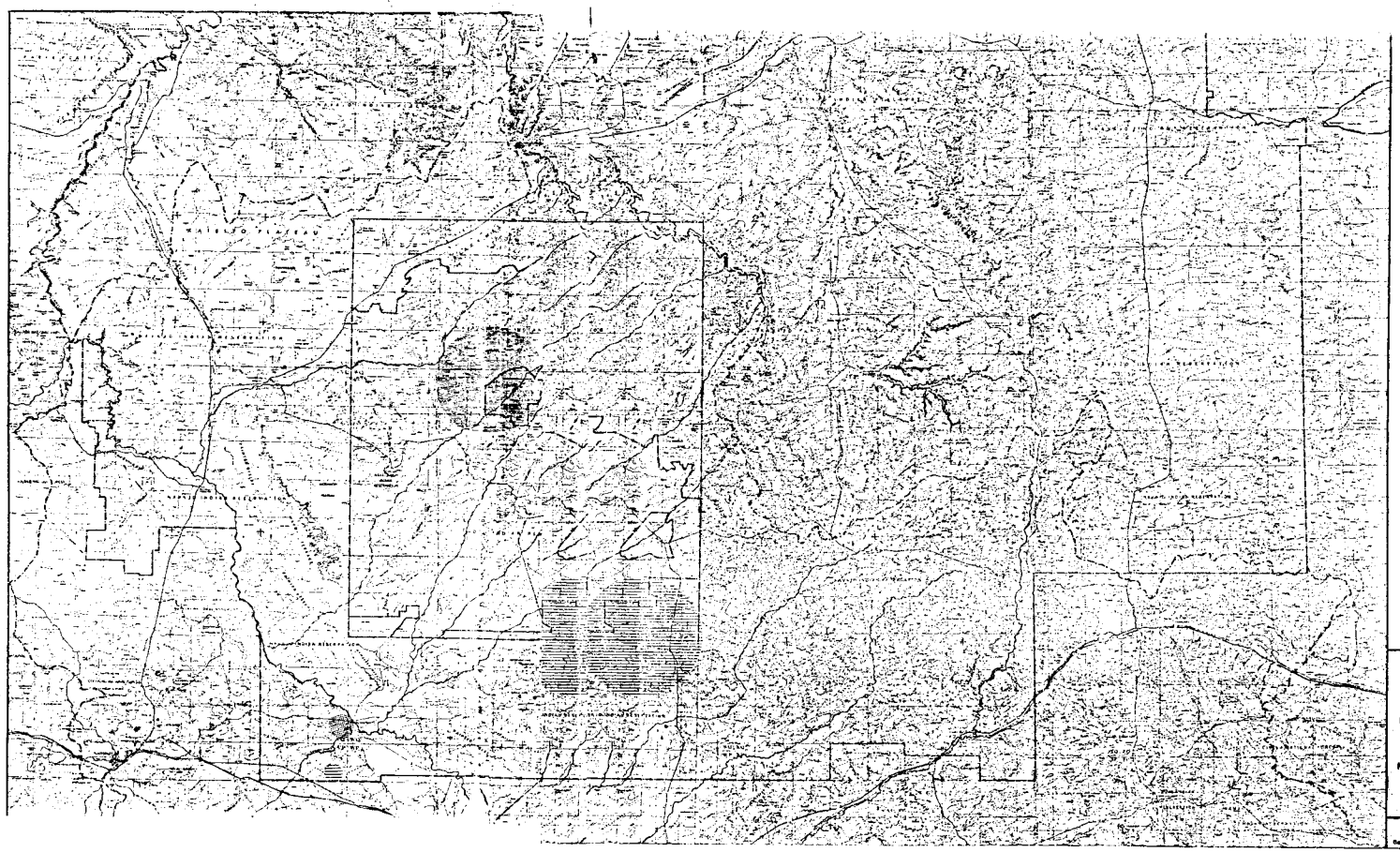
NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

PROPOSED GROUND WATER IRRIGATION DEVELOPMENT PLAN

STETSON ENGINEERS INC.

San Rafael Capistrano Beach West Covina


NAVAJO INDIAN RESERVATION
AISITO PLATEAU
NAVAJO HOPI INDIAN RESERVATION
North Oraibi
Hard Rock
Upper Polacca
East Dinnebito
South Oraibi
Toreva
Blue Point
Chimopovi
Five Houses
Shonto
Polacca Wash
Talahogan
Burro Springs
Tovar Mesa
NAVAJO INDIAN RESERVATION
MAP NO. 3
39-91441
NAVAJO AND HOPI INDIAN
RESERVATIONS LITTLE COLORADO
RIVER BASIN, ARIZONA
RANGE UNIT BOUNDARIES
STETSON ENGINEERS INC.
Project Area
ARIZONA
LOCATION MAP



LEGEND

- Little Colorado River Basin Divide Boundary
- Coal Fired Power Plant
- Coal Mine and Slurry Operation
- Potatoe Processing
- Vegetable Canning and Beef Packing

MAP NO. 4

NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

PRESENT AND FUTURE MAJOR AND LIGHT INDUSTRIAL, AND MINING DEVELOPMENT

STETSON ENGINEERS INC.

San Rafael Capistrano Beach West Covina

39-91441
(US)
11-29-85

For Departmental Use Only

File No. 39- 91441

Date Filed: 11-29-85

WF 39-91441 filed 11/29/85 as corrected 12/18/85

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STATEMENT OF CLAIMANT FORM FOR OTHER USES[1]

LITTLE COLORADO RIVER WATERSHED ADJUDICATION
SUPERIOR COURT OF APACHE COUNTY

1. **Claimant Name:** United States Department of the Interior, Bureau of Indian Affairs on ~~behalf of the Navajo and Hopi Tribes.~~
   Claimant Address: _____ City _____
   State: _____ Zip Code _____ Telephone _____

2. **Basis of Claim:**
   A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No. _____
   B. ☐ Appropriation Right acquired after June 12, 1919. Application No. _____, Permit No. _____, or Certificate of Water Right No. _____
   C. ☐ Decreed water right. Principal litigants, court, date and case no.: _____
   D. ☐ Right to withdraw groundwater.
   E. ☒ Other, describe: Federal Reserved water right (see attached text)

3. **Claimed Priority Date:** Time immemorial (month/day/year)

4. **Use:**
   A. ☒ Municipal
   B. ☒ Commercial or Industrial
   C. ☒ Mining
   D. ☒ Stockwatering other than from a stockpond
   E. ☒ Recreation, Fish & Wildlife
   F. ☒ Other, describe: See attached text and claims data

5. **Source of Water:** (See attached claims data)
   A. ☒ Stream: name _____, tributary to _____
   B. ☒ Spring: name _____, tributary to _____
   C. ☒ Lake or Reservoir: name _____, tributary to _____
   D. ☒ Groundwater

6. **Legal description of the Point of Diversion:** (attach additional sheet if required) (See attached claims d
   ____¼, ____¼, ____¼, Section ____, Township ____N/S, Range ____E/W

7. **If there are Irrigation, Domestic or Stockpond** uses also supplied from the Point of Diversion, describe:
   _____

8. **Means of Diversion:** (See attached claims data)
   A. ☐ Instream pump
   B. ☐ Gravity flow into ditch, canal or pipeline.
   C. ☐ Well: Arizona State Land Department, Arizona Water Commission or Arizona Department of Water Resources Intent to Drill File No. _____
   D. ☐ Other, describe _____

[1] See instructions for explanation of uses in this category

9. **Means of Conveyance:**

A. ☐ Ditch, canal or pipeline. If the means of conveyance is owned and/or operated by some other entity, please give name and address: (See attached claims data)

B. ☐ Other, describe: _____

10. **Place of Use, if other than point of diversion:** (attach additional sheet if required)

County Coconino, Apache and Navajo.

Legal Subdivision	Section	Township	Range
		N/S	E/W
		N/S	E/W

11. **Claimed Right:** (See attached claims data)

A. Maximum Flow Rate: _____ ☐ cubic-feet per second ☐ gallons per minute ☐ Arizona miner's inches

B. Annual Volume of Water Use: _____ acre-feet

C. Storage Right: _____ acre-feet

12. Attach photographs, maps or sketches necessary to show the point of diversion, storage reservoir(s), place(s) of use and means of conveyance.

13. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant Contact Bureau of Indian Affairs

14. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person? Rights Protection Office, Bureau of Indian Affairs, Albuquerque, NM

15. Attach Filing Fee to Form. Mail form(s) and fee(s) to: Department of Water Resources, P.O. Box 2920 Phoenix, AZ 85062.

16. **Additional comments:** _____

(attach additional sheet if required)

17. **Notarized Statement:**

I (We) James H Stevens

the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the informatio contained and statements made herein are to the best of my(our) knowledge and belief true, correct an complete.

Florence K. Burgess

(seal)

My Commission Expires: March 14, 1987 Notary Public

or _____

U.S. Department of Justice

HM:WAWhite:cls
90-6-2-54

Washington, D.C. 20530

December 12, 1985

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DEC 16
WATER RESOURCES

Mr. C. Laurence Linser
Deputy Director
Adjudications & Administration
99 East Virginia
Phoenix, Arizona 85004

Dear Mr. Linser:

Re: The General Adjudication of All Rights of Water Use in the Little Colorado River System and Source, Civil No. 6417, Supreme Court, Apache County, Arizona.

On November 29, 1985, the United States filed its preliminary statement of claims in the Little Colorado water rights adjudication. Unfortunately there was a line transposition on pages 7 and 8 which rendered certain substantive material unintelligible. I am therefore requesting that you substitute the enclosed corrected copy for the one originally filed. Thank you for your cooperation in this matter.

Sincerely,

William A. White
Attorney, Indian Resources Section
Land and Natural Resources Division

Enclosure

William Swan
Assistant Regional Solicitor
U.S. Department of the Interior
L'Aiglon Court
Suite 150
505 North 2nd Street
Phoenix, Arizona 85012

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DEPT. OF
WATER RESOURCE

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF THE RIGHTS TO USE WATER ON THE LITTLE COLORADO RIVER SYSTEM AND SOURCE

NO. 6417

UNITED STATES STATEMENT OF CLAIMS

The United States of America in its own right and as trustee for the Navajo Nation and the Hopi Indian Tribe 1/ hereby submits its statement of claims to use water in the Little Colorado River watershed. Federal lands within the watershed for which claims are being submitted encompass the Navajo and Hopi Indian Reservations and other federal lands administered by the National Park Service, the National Forest Service, and the Bureau of Land Management. A summary of claims and supporting data for all Indian lands is set forth in the accompanying Report of Water Claims by the United States of America for the Navajo and Hopi Indian Reservations and Report of Water Claims by the United States of America for the New Lands of the Navajo Nation prepared by Stetson Engineers, Inc. The claims of the National Park Service are set forth in sixteen statement of claimant forms along with supporting data and maps. The claims of the National Forest Service are summarized in Appendix A and detailed in supporting data.

1/ It is the position of the United States that this claim does not in any way effect a waiver of the Tribes' immunity from suit. It is also our position that the Tribes' immunity from suit has not been waived by the McCarran Amendment (43 U.S.C. §666), and that a Tribe can only become a party to this proceeding if it chooses to intervene on its own behalf.

I. The Federal Reserved Water Rights Doctrine

The legal basis for the Indian claims and some of the non-Indian federal claims is the federal reserved water rights doctrine as recognized by the Supreme Court of the United States. In Winters v. United States, 207 U.S. 564 (1908), the treaty setting apart certain lands for an Indian reservation did not contain an express reservation of a right to the use of water on the Indian land. Instead the Court relied upon the inferred intent of Congress in the Fort Belknap Agreement to transform the Indians from a nomadic into a "pastoral and civilized people," to declare the need for irrigation water to make the reservation lands productive, and to find that:

> The power of the Government to reserve waters and exempt them from appropriation under state laws is not denied, and could not be. Id. at 577.

In Arizona v. California, 373 U.S. 546 (1963) the Supreme Court held that the implied reservation of water on Indian lands set forth in Winters was equally applicable to other types of federal reservations such as national wildlife refuges, national forests, national parks and national recreational areas. In Colorado River Water Conservation District v. United States, 424 U.S. 800, 805 (1976), the Court said "[t]he reserved rights of the United States extend to Indian reservations and other federal lands such as national parks and forests." The Court reiterated this position in Cappaert v. United States, 426 U.S. 128 (1976), the first case to extend the reserved water rights doctrine to groundwater.

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> In so doing the United States acquires a reserved right in appropriated water which vests on the date of the reservation and is superior to the rights of future appropriators. Reservation of water rights is empowered by the Commerce Clause, Art. I, §8, which permits federal regulation of federal lands. The doctrine applies to Indian reservations and other federal enclaves, encompassing water rights in navigable and non-navigable streams. Id. at 138. (citations omitted.)

When lands are withdrawn or reserved for authorized public purposes requiring the use of water, the right to use a sufficient amount of the unappropriated waters to accomplish those purposes is also reserved and is appropriated under federal law.

The basic elements of the reserved rights doctrine are well established in common law. At the date a reservation is established whether by treaty, statute or executive order, sufficient water is impliedly reserved from appurtenant surface and underground sources to fulfill the purposes of the reservation. 2/ The federal reserved right, although unquantified or unused, is a perfected, vested property right, which is controlled by federal law and is not dependent upon state law or procedure for its existence, nature and extent, whether or not an adjudication action is in state court. United States

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2/ The federal reserved right grants priority in the use of water over subsequent appropriators even if there is an adverse economic effect on those non-federal users. Winters, 207 U.S. at 570. Moreover, the United States has the power to reserve waters for the use and benefit of federally reserved lands whether the withdrawal is accomplished before or after the state within which the lands are located was admitted to the Union. United States of America v. District Court in and for Eagle County, Colorado, 401 U.S. 520, 522-523 (1971).

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v. Superior Court, Nos. 17623-SA, 17681-SA (consolidated) (S.Ct. Ariz. January 30, 1985), slip op. at 18 citing Arizona v. San Carlos Apache Tribe, 463 U.S. 545 (1983). Thus, a reserved right exists if two elements are established. First, there must be a federal reservation of land, and second, the purpose for which the land is reserved must require water. When these two items are shown, the United States holds a reserved right and is then entitled to enough water to fulfill the purposes of the reservation.

II. Indian Reservations

The reserved water rights doctrine as set out in the proceeding section is the basis for the United States' claim for reserved water rights on behalf of the Navajo Indian Nation and the Hopi Indian Tribe. 3/ When Congress and the President created permanent homelands for the Navajo and Hopi Tribes it was necessarily intended that sufficient water was reserved to satisfy the present, as well as the future, needs of the Indians. Enough water was thus reserved to irrigate all of the practicably irrigable acreage on the reservation, as well as to meet other future needs. Arizona v. California, 373 U.S. at 600-601. Indians' needs have been defined to include establishing a

---

3/ The United States intends to file claims for water on behalf of the Zuni Indian Tribe for lands recently reserved and acquired, through exchange or purchase, as a result of P.L. 98-408, 98 Stat. 1533 (1984). Because the lands are just now being acquired, the nature of any claims is currently unknown and there are no data available to support them.

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permanent homeland, making the reservation livable and maintenance of the Indian way of life in the present and the future. Id. at 599; Winters, 207 U.S. at 577; Menominee Tribe v. United States, 391 U.S. 404, 406 (1968). These purposes are fulfilled through the uses of water for agriculture, livestock, fisheries and wildlife, mineral development, municipal, industrial and recreational uses, and aesthetics. See, e.g., United States v. Shoshone Tribe, 304 U.S. 111 (1938) (timber and minerals); United States v. Adair, 723 F.2d. 1394 (9th Cir.), cert. denied, 104 S.Ct. 3536 (1984) (fisheries and wildlife).

The Navajo Nation and Hopi Indian Tribes have occupied the area of their present reservations and adjacent lands for many hundreds of years. Accordingly, the water rights claim for the Navajo and Hopi Reservations is made on the basis of a priority date of time immemorial.

The United States government has entered into certain agreements and treaties with the Navajo Tribe including, but not limited to, the Treaty of September 9, 1868, 15 Stat. 667, in which the Navajo Indian Reservation was established and set apart by the federal government. The Reservation was augmented by President Rutherford B. Hayes by Executive Order on October 29, 1878. Other executive orders and statutes which augmented the reservation within the watershed include, but are not necessarily limited to, the following: Exec. Order, January 6, 1880; Exec. Order, December 16, 1882; Exec. Order, May 17, 1884; Exec.

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Order, January 8, 1900; Exec. Order, November 14, 1901; Exec. Order No. 709, November 9, 1907; Exec. Order No. 1699, February 10 1913; Exec. Order, January 19, 1918; 46 Stat. 378-379, May 23, 1930; 46 Stat. 1204, February 21, 1931; 48 Stat. 960-962, June 14, 1934; 25 U.S.C. § 3640d et seq. (1980). See I C. Kappler, Indian Affairs Laws and Treaties, 875-876 (2nd ed. 1904); II Kappler 583, 1015. The Hopi Indian Reservation was established by President Chester A. Arthur in the same Executive Order dated December 16, 1882 listed above. See I Kappler 805; see also Healing v. Jones, 210 F.Supp. 125 (D. Ariz. 1962), aff'd, 373 U.S. 758 (1963).

III. Other Federal Lands

A. Reserved Water Rights.

As previously stated, the reserved water rights doctrine applies to other types of federal reservations. Included in the United States' claims to water are reserved water rights claims made on behalf of the following National Forest units within the Little Colorado River watershed: Apache-Sitgreaves, Coconino and Kaibab. In addition, reserved water rights are asserted on behalf of the following National Park Service units within the Little Colorado River watershed: Grand Canyon National Park, Petrified Forest National Park, Walnut Canyon National Monument, Sunset Crater National Monument, Wupatki National Monument. 4/

4/ The purposes and benefits to the national interest in the establishment of national parks, monuments and forests are set forth in the Act of August 25, 1916, 39 Stat. 535, as amended, 10 U.S.C. §1 (1970); Creative Act of 1891, 20 Stat. 1103, 16 U.S.C. §471; Organic Administration Act of 1897, 30 Stat. 34, 16 U.S.C. §3475.

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B. State Law Appropriative Water Rights.

Many of the claims asserted on behalf of federal agencies are based on the Arizona law of prior appropriation. These claims are supported by: 1) pre-1919 water rights registered under the Water Rights Registration Act of 1974, A.R.S. §§45-180 to 45-192; 2) existing administratively certificated water rights; 3) water rights applied for under state law, but not yet acted on by the Arizona Department of Water Resources; or 4) water rights recognized in existing judicial decrees. Prior appropriation water rights have been asserted on behalf of the following federal agencies: the U.S. Forest Service, the National Park Service, and the Bureau of Land Management.

IV. Lands Recently Purchased For The Navajo Tribe

On June 14, 1983, the Navajo Tribe selected 372,334 acres of land for acquisition in Arizona to be added to the Navajo Reservation pursuant to Public Law 93-531, as amended by Public Law 96-305 (Navajo and Hopi Indian Reservation Amendments Act of 1980). See 25 U.S.C. § 640d et seq. Lands chosen for acquisition were the Wallace, Spurlock, Roberts, Fitzgerald, and Kelsey Ranches in Arizona and certain small acreage owned by the Babbitt Brothers Trading Company within the Navajo Reservation. Also included were the Bar N and Chambers ranches presently owned in fee by the Navajo Tribe. See Appendix B for ranch locations.

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Because the above-described lands were only recently acquired, the United States does not have sufficient data available to claim, with certainty, the water rights that attach to these lands. Accordingly, the water rights claims for the ranch lands are necessarily incomplete, and supplements will be filed at a later date in order to more fully state the claims of the United States for those lands. Some data are presently available in regard to a few of the properties and have been included in the Report of Water Claims by the United States of America, in and for the New Lands of the Navajo Nation.

Since the ranch lands will be taken into trust by the United States on behalf of the Navajo Tribe as part of the permanent homeland for that tribe, the United States claims a reserved water right as to all unappropriated water that is necessary to make the land habitable and useful to the Indian residents. The priority date claimed is the date of purchase for each parcel.

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WATER RESOU

V. Payment Of Fees

In support of these claims the United States is tendering the fees required by A.R.S. §45-254(F). However, this suit was not instituted by the United States, which was required to participate in order to protect its rights to use water against the interests of other parties.

Jurisdiction over the United States in this case is governed by the McCarran Amendment, 43 U.S.C. §666 (1952). United States v. Superior Court, supra, slip op. at 8-10. The

McCarran Amendment provides in part that "no judgment for costs shall be entered against the United States in any such suit." This proviso restates and reinforces the common law rule that, in absence of a statute directly authorizing it, courts could not give judgment against the United States for costs and expenses. 5/

The McCarran Amendment constitutes a waiver of the sovereign immunity of the United States by permitting it to be joined as a defendant in a suit quantifying water rights. Colorado River Water Conservation District v. United States, supra; Arizona v. San Carlos Apache Tribe, supra. In Block v. North Dakota, 461 U.S. 273 (1983), the Supreme Court repeated the familiar rule of construction of statutes which waive federal sovereign immunity:

> The basic rule of federal sovereign immunity is that the United States cannot be sued at all without the consent of Congress. A necessary corollary of this rule is that when Congress attaches conditions to legislation waiving the sovereign immunity of the United States, those conditions must be strictly observed and exceptions thereto not to be lightly implied. (Citations omitted.) Id. at 287.

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5/ In 1966, Congress, by enactment of Public Law 89-507, waiv the government's sovereign immunity from a judgment of cos and expenses insofar as that immunity was based on common law principles rather than on a statutory prohibition. Act of July 18, 1966, 80 Stat. 308, as amended 28 U.S.C. §2412. However, the 1966 waiver does not apply to cases, such as this case, where the immunity from a judgment for costs is "specifi provided for by statute." 28 U.S.C. §2412(a).

The Court went on to hold that there is no reason why the federal sovereignty rule should not be applied to states. Id. at 288-289. And in Aycrigg v. United States, 124 F.Supp. 416, 418 (N.D. Cal. 1954) the Court held that the rule of strict construction of sovereign immunity waiver was applied to costs "with especial rigor."

The United States intends to seek recovery of the filing fees in this case as well as other legitimate costs associated with this litigation after final judgment has been rendered.

Respectfully submitted,

STEPHEN M. McNAMEE
United States Attorney
4000 United States Courthouse
230 North First Avenue
Phoenix, Arizona 85025
(602) 261-3011

WILLIAM A. WHITE
Attorney, Department of Justice
10th & Pennsylvania Avenue, N.W.
Washington, D.C. 20530
(202) 724-5993

HERBERT A. BECKER
Assistant United States Attorney
P.O. Box 607
Albuquerque, New Mexico 87103
(505) 766-3341

OF COUNSEL:

William Swan
Assistant Regional Solicitor
U.S. Department of the Interior
L'Aiglon Court
Suite 150
505 North 2nd Street
Phoenix, Arizona 85012

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WATER RESOURCES

United States Department of Agriculture
Forest Service
517 Gold Ave., SW
Albuquerque, NM 87102

Reply to. 2540

Date. SEP 17 1985

Ms. Kathy Farris, Director
Arizona Department of Water Resources
99 East Virginia Ave.
Phoenix, AZ 85004

Dear Ms. Farris:

Enclosed are statements of claimant for the U.S. Department of Agriculture, Forest Service in the Little Colorado River Basin. The claims are for water uses on the Apache-Sitgreaves, Coconino, and Kaibab National Forests. There are 2,017 claims. The types of claims by Forests can be seen in the following table. The total stockpond storage capacity by Forest is also listed in the table.

	Forest			
Claim Type	Apache-Sitgreaves	Coconino	Kaibab	Total
Domestic	24	27	0	51
Other	477	138	2	617
Federal Reserve	26	9	2	37
Stockponds	704	558	48	1,310
Irrigation	2	0	0	2
Total Claims	1,233	732	52	2,017
Total Stockpond Storage Capacity (acre feet)	811	1,267	94	2,172

Also enclosed are $40,340 in filing fees.

We are available to work with your Department to ensure understanding and efficient assimilation of this large quantity of water use information.

Sincerely,

W. R. SNYDER
Acting Deputy Regional Forester

Enclosures

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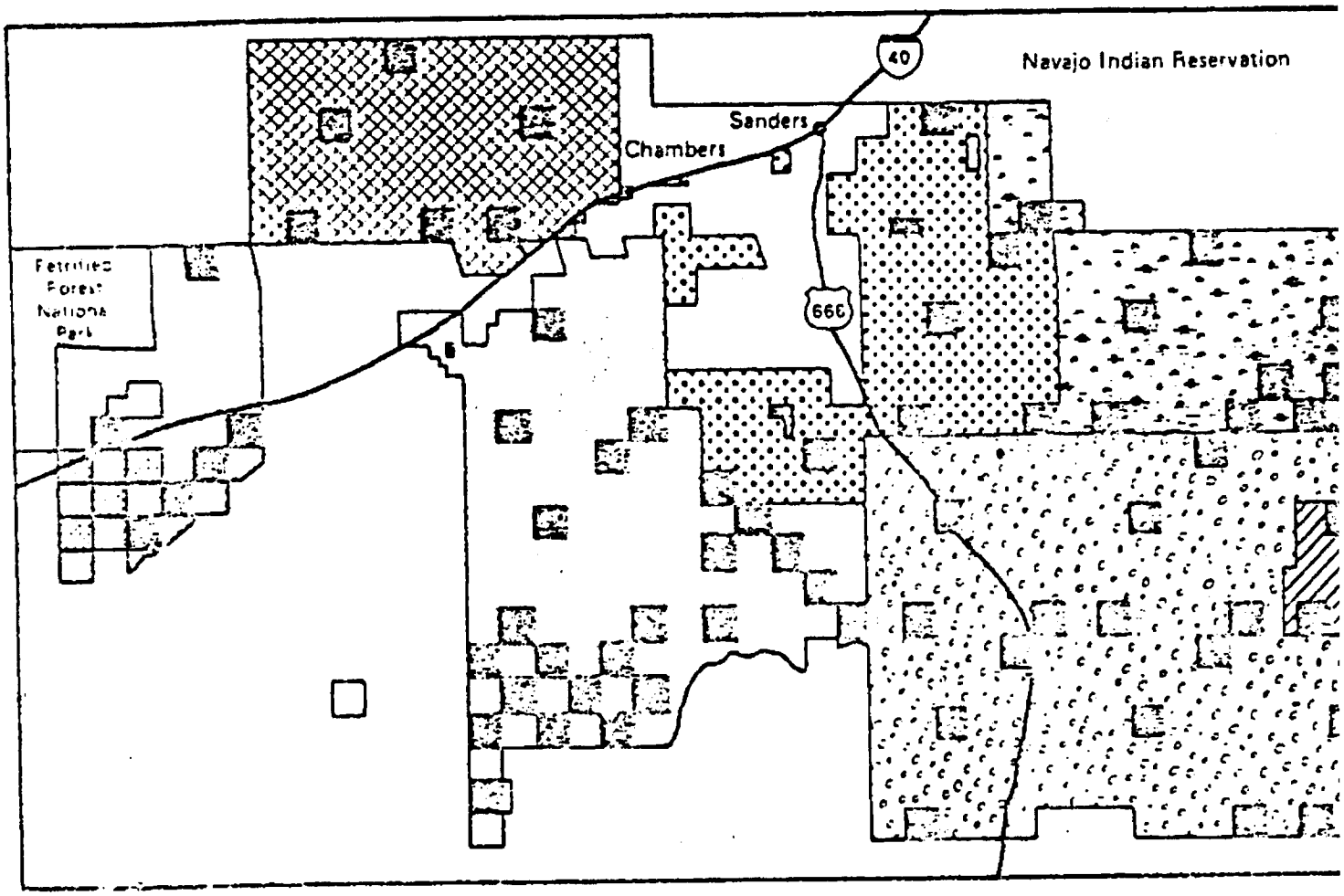
APPENDIX A

Lands Selected by the Navajo Tribe



	RANCH	DEEDED	STATE	BLM	TOTAL
	Chambers (Navajo)	44,800	4,480		49,280
	Bar N (Navajo)	106,880	10,000		116,880
	Wallace	45,000	6,000		51,000
	Spurlock	61,440	16,000		77,440
	Roberts	35,480	6,080		41,560
	Fitzgerald	20,000	3,840	5,120	28,960
	Kelsey	5,169	1,280		6,449
	TOTAL	318,769	47,680	5,120	371,409

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APPENDIX B

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IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF THE RIGHTS TO USE WATER ON THE LITTLE COLORADO RIVER SYSTEM AND SOURCE

NO. 6417

UNITED STATES STATEMENT OF CLAIMS

The United States of America in its own right and as trustee for the Navajo Nation and the Hopi Indian Tribe 1/ hereby submits its statement of claims to use water in the Little Colorado River watershed. Federal lands within the watershed for which claims are being submitted encompass the Navajo and Hopi Indian Reservations and other federal lands administered by the National Park Service, the National Forest Service, and the Bureau of Land Management. A summary of claims and supporting data for all Indian lands is set forth in the accompanying Report of Water Claims by the United States of America for the Navajo and Hopi Indian Reservations and Report of Water Claims by the United States of America for the New Lands of the Navajo Nation prepared by Stetson Engineers, Inc. The claims of the National Park Service are set forth in ~~four~~six teen statement of claimant forms along with supporting data and maps. The

1/ It is the position of the United States that this claim does not in any way effect a waiver of the Tribes' immunity from suit. It is also our position that the Tribes' immunity from suit has not been waived by the McCarran Amendment (43 U.S.C. §666), and that a Tribe can only become a party to this proceeding if it chooses to intervene on its own behalf.

claims of the National Forest Service are summarized in Appendix A and detailed in supporting data.

I. The Federal Reserved Water Rights Doctrine

The legal basis for the Indian claims and some of the non-Indian federal claims is the federal reserved water rights doctrine as recognized by the Supreme Court of the United States. In Winters v. United States, 207 U.S. 564 (1908), the treaty setting apart certain lands for an Indian reservation did not contain an express reservation of a right to the use of water on the Indian land. Instead the Court relied upon the inferred intent of Congress in the Fort Belknap Agreement to transform the Indians from a nomadic into a "pastoral and civilized people," to declare the need for irrigation water to make the reservation lands productive, and to find that:

> The power of the Government to reserve waters and exempt them from appropriation under state laws is not denied, and could not be. Id. at 577.

In Arizona v. California, 373 U.S. 564 (1963) the Supreme Court held that the implied reservation of water on Indian lands set forth in Winters was equally applicable to other types of federal reservations such as national wildlife refuges, national forests, national parks and national recreational areas. In Colorado River Water Conservation District v. United States, 424 U.S. 800, 805 (1976), the Court said "[t]he reserved rights of the United States extend to Indian reservations and other federal lands such as national

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parks and forests." The Court reiterated this position in Cappaert v. United States, 426 U.S. 128 (1976), the first case to extend the reserved water rights doctrine to groundwater:

> In so doing the United States acquires a reserved right in appropriated water which vests on the date of the reservation and is superior to the rights of future appropriators. Reservation of water rights is empowered by the Commerce Clause, Art. I, §8, which permits federal regulation of federal lands. The doctrine applies to Indian reservations and other federal enclaves, encompassing water rights in navigable and non-navigable streams. Id. at 138. (citations omitted.)

When lands are withdrawn or reserved for authorized public purposes requiring the use of water, the right to use a sufficient amount of the unappropriated waters to accomplish those purposes is also reserved and is appropriated under federal law.

The basic elements of the reserved rights doctrine are well established in common law. At the date a reservation is established whether by treaty, statute or executive order, sufficient water is impliedly reserved from appurtenant surface and underground sources to fulfill the purposes of the reservation. 2/ The federal reserved right, although unquantified or unused, is a perfected, vested property right, which is

---

2/ The federal reserved right grants priority in the use of water over subsequent appropriators even if there is an adverse economic effect on those non-federal users. Winters, 207 U.S. at 570. Moreover, the United States has the power to reserve waters for the use and benefit of federally reserved lands whether the withdrawal is accomplished before or after the state within which the lands are located was admitted to the Union. United States of America v. District Court in and for Eagle County, Colorado, 401 U.S. 520, 522-523 (1971).

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controlled by federal law and is not dependent upon state law or procedure for its existence, nature and extent, whether or not an adjudication action is in state court. United States v. Superior Court, Nos. 17623-SA, 17681-SA (consolidated) (S.Ct. Ariz. January 30, 1985), slip op. at 18 citing Arizona v. San Carlos Apache Tribe, 463 U.S. 545 (1983). Thus, a reserved right exists if two elements are established. First, there must be a federal reservation of land, and second, the purpose for which the land is reserved must require water. When these two items are shown, the United States holds a reserved right and is then entitled to enough water to fulfill the purposes of the reservation.

II. Indian Reservations

The reserved water rights doctrine as set out in the proceeding section is the basis for the United States' claim for reserved water rights on behalf of the Navajo Indian Nation and the Hopi Indian Tribe. 3/ When Congress and the President created permanent homelands for the Navajo and Hopi Tribes it was necessarily intended that sufficient water was reserved to satisfy the present, as well as the future, needs of the Indians. Enough water was thus reserved to irrigate all of the practicably

---

3/ The United States intends to file claims for water on behalf of the Zuni Indian Tribe for lands recently reserved and acquired, through exchange or purchase, as a result of P.L. 98-408, 98 Stat. 1533 (1984). Because the lands are just now being acquired, the nature of any claims is currently unknown, and there are no data available to support them.

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1 irrigable acreage on the reservation, as well as to meet other
2 future needs. Arizona v. California, 373 U.S. at 600-601.
3 Indians' needs have been defined to include establishing a
4 permanent homeland, making the reservation livable and maintenance
5 of the Indian way of life in the present and the future. Id.
6 at 599; Winters, 207 U.S. at 577; Menominee Tribe v. United
7 States, 391 U.S. 404, 406 (1968). These purposes are fulfilled
8 through the uses of water for agriculture, livestock, fisheries
9 and wildlife, mineral development, municipal, industrial and
10 recreational uses, and aesthetics. See, e.g., United States v.
11 Shoshone Tribe, 304 U.S. 111 (1938) (timber and minerals);
12 United States v. Adair, 723 F.2d. 1394 (9th Cir.), cert. denied,
13 104 S.Ct. 3536 (1984) (fisheries and wildlife).
14 The Navajo Nation and Hopi Indian Tribes have occupied
15 the area of their present reservations and adjacent lands for
16 many hundreds of years. Accordingly, the water rights claim
17 for the Navajo and Hopi Reservations is made on the basis of a
18 priority date of time immemorial.
19 The United States government has entered into certain
20 agreements and treaties with the Navajo Tribe including, but not
21 limited to, the Treaty of September 9, 1868, 15 Stat. 667, in
22 which the Navajo Indian Reservation was established and set apart
23 by the federal government. The Reservation was augmented by
24 President Rutherford B. Hayes by Executive Order on October 29,
25 1878. Other executive orders and statutes which augmented the

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reservation within the watershed include, but are not necessarily limited to, the following: Exec. Order, January 6, 1880; Exec. Order, December 16, 1882; Exec. Order, May 17, 1884; Exec. Order, January 8, 1900; Exec. Order, November 14, 1901; Exec. Order No. 709, November 9, 1907; Exec. Order No. 1699, February 10 1913; Exec. Order, January 19, 1918; 46 Stat. 378-379, May 23, 1930; 46 Stat. 1204, February 21, 1931, 48 Stat. 960-962, June 14, 1934; 25 U.S.C. § 3640d et seq. (1980). See I C. Kappler, Indian Affairs Laws and Treaties, 875-876 (2nd ed. 1904); II Kappler 583, 1015. The Hopi Indian Reservation was established by President Chester A. Arthur in the same Executive Order dated December 16, 1882 listed above. See I Kappler 805; see also Healing v. Jones, 210 F.Supp. 125 (D. Ariz. 1962), aff'd, 373 U.S. 758 (1963).

III. Other Federal Lands

A. Reserved Water Rights.

As previously stated, the reserved water rights doctrine applies to other types of federal reservations. Included in the United States' claims to water are reserved water rights claims made on behalf of the following National Forest units within the Little Colorado River watershed: Apache-Sitgreaves, Coconino and Kaibab. In addition, reserved water rights are asserted on behalf of the following National Park Service units within the Little Colorado River watershed:

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Grand Canyon National Park, Petrified Forest National Park, Walnut Canyon National Monument, Sunset Crater National Monument, Wupatki National Monument. 4/

B. State Law Appropriative Water Rights.

Many of the claims asserted on behalf of federal agencies are based on the Arizona law of prior appropriation. These claims are supported by: 1) pre-1919 water rights registered under the Water Rights Registration Act of 1974, A.R.S. §§45-180 to 45-192; 2) existing administratively certificated water rights; 3) water rights applied for under state law, but not yet acted on by the Arizona Department of Water Resources; or 4) water rights recognized in existing judicial decrees. Prior appropriation water rights have been asserted on behalf of the following federal agencies: the U.S. Forest Service, the National Park Service, and the Bureau of Land Management.

IV. Lands Recently Purchased For The Navajo Tribe

On June 14, 1983, the Navajo Tribe selected 372,334 acres of land for acquisition in Arizona to be added to the Navajo Reservation pursuant to Public Law 93-531, as amended by

---

4/ The purposes and benefits to the national interest in the establishment of national parks, monuments and forests are set forth in the Act of August 25, 1916, 39 Stat. 535, as amended, 10 U.S.C. §1 (1970); Creative Act of 1891, 20 Stat. 1103, 16 U.S.C. §471; Organic Administration Act of 1897, 30 Stat. 34, 16 U.S.C. §3475.

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Public Law 96-305 (Navajo and Hopi Indian Reservation Amendments Act of 1980). See 25 U.S.C. § 640d et seq. Lands chosen for acquisition were the Wallace, Spurlock, Roberts, Fitzgerald, and Kelsey Ranches in Arizona and certain small acreage owned by the Babbitt Brothers Trading Company within the Navajo Reservation. Also included were the Bar N and Chambers ranches for ranch locations.

Because the above-described lands were only recently acquired, the United States does not have sufficient data available to claim, with certainty, the water rights that attach to these lands. Accordingly, the water rights claims for the ranch lands are necessarily incomplete, and supplements will be filed at a later date in order to more fully state the claims of the United States for those lands. Some data are presently available in regard to a few of the properties and have been included in the Report of Water Claims by the United States of America, in and for the New Lands of the Navajo Nation.

Since the ranch lands will be taken into trust by the United States on behalf of the Navajo Tribe as part of the permanent homeland for that tribe, the United States claims a reserved water right as to all unappropriated water that is necessary to make the land habitable and useful to the Indian residents. The priority date claimed is the date of purchase for each parcel.

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FORM ORD-183

V. Payment Of Fees

In support of these claims the United States is tendering the fees required by A.R.S. §45-254(F). However, this suit was not instituted by the United States, which was required to participate in order to protect its rights to use water against the interests of other parties.

Jurisdiction over the United States in this case is governed by the McCarran Amendment, 43 U.S.C. §666 (1952). United States v. Superior Court, supra, slip op. at 8-10. The McCarran Amendment provides in part that "no judgment for costs shall be entered against the United States in any such suit." This proviso restates and reinforces the common law rule that, in absence of a statute directly authorizing it, courts could not give judgment against the United States for costs and expenses. 5/

The McCarran Amendment constitutes a waiver of the sovereign immunity of the United States by permitting it to be joined as a defendant in a suit quantifying water rights. Colorado River Water Conservation District v. United States, supra; Arizona v. San Carlos Apache Tribe, supra. In Block v.

5/ In 1966, Congress, by enactment of Public Law 89-507, waived the government's sovereign immunity from a judgment of costs and expenses insofar as that immunity was based on common law principles rather than on a statutory prohibition. Act of July 18, 1966, 80 Stat. 308, as amended 28 U.S.C. §2412. However, the 1966 waiver does not apply to cases, such as this case, where the immunity from a judgment for costs is "specifically provided for by statute." 28 U.S.C. §2412(a).

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North Dakota, 461 U.S. 273 (1983), the Supreme Court repeated the familiar rule of construction of statutes which waive federal sovereign immunity:

> The basic rule of federal sovereign immunity is that the United States cannot be sued at all without the consent of Congress. A necessary corollary of this rule is that when Congress attaches conditions to legislation waiving the sovereign immunity of the United States, those conditions must be strictly observed and exceptions thereto not to be lightly implied. (Citations omitted.) Id. at 287.

The Court went on to hold that there is no reason why the federal sovereignty rule should not be applied to states. Id. at 288-289. And in Aycrigg v. United States, 124 F.Supp. 416, 418 (N.D. Cal. 1954) the Court held that the rule of strict construction of sovereign immunity waiver was applied to costs "with especial rigor."

The United States intends to seek recovery of the filing fees in this case as well as other legitimate costs associated with this litigation after final judgment has been rendered.

Respectfully submitted,

STEPHEN M. McNAMEE
United States Attorney
4000 United States Courthouse
230 North First Avenue
Phoenix, Arizona 85025
(602) 261-3011

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FORM OBD-183

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OF COUNSEL:

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FORM OBD-183

STETSON ENGINEERS INC.

CIVIL AND CONSULTING ENGINEERS

1438

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September 20, 1985

REPLY TO:
San Rafael

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Washington, D.C. 20004

William H. Swan, Esq.
U.S. Department of the Interior
Office of the Solicitor
505 N. 2nd Street
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Phoenix, Arizona

Gentlemen:

Transmitted herewith is a summary of the reserved water right claims for the Navajo and Hopi Indian Reservations from the water sources of the Little Colorado River basin. The claims, which include both agricultural and non-agricultural water uses, are summarized below.

Water Use	Water Demand (Acre-feet per year) Current or Recent	Future Additional	Total
Irrigation (Surface Water)	33,190	254,720	287,910
Evaporation From Irrigation Storage*	1,155	30,367	31,522
Irrigation (Ground Water)	2,859	106,825	109,684
Municipal	4,296	53,069	57,365
Domestic	298	33	331
Recreation **	2,316	378	2,694
Stockwater	635	119	754
Stockpond	3,721	176	3,897
Industrial	129	33,072	33,201
Mining	8,449	11,065	19,514
Total	57,048	489,824	546,872

* Onetime initial filling of irrigation storage = 330,000 acre-feet.
** Onetime initial filling of recreation lakes = 1,082 acre-feet

The studies conducted to arrive at the above claims were reconnaissance in nature and were based upon existing data and information. Additional data collection, field investigations and feasibility level studies will be necessary to refine the claims. Therefore, it can be expected that, at some future date, it will be necessary to revise the statement of claims.

Sincerely,

Woldezion Mesghinna
Stetson Engineers Inc.

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REPORT OF WATER CLAIMS
BY
THE UNITED STATES OF AMERICA
FOR
THE NAVAJO AND HOPI INDIAN RESERVATIONS

In Connection With
The General Adjudication of
All Rights of Water Use in the
Little Colorado River System
and Source, Civil No. 6417,
Superior Court, Apache County, Arizona

September 27, 1985

STETSON ENGINEERS INC.
San Rafael Capistrano Beach West Covina
California

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Municipal Water Use	4
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Recreation Water Use	6
Stockwater Use	7
Stockpond Water Use	8
Industrial Water Use	9
Mining Water Use	10

List of Maps (In Pocket)

Map No.	
1	Proposed Surface Water Irrigation Development Plan
2	Proposed Ground Water Irrigation Development Plan
3	Range Unit Boundaries
4	Present and Future Major and Light Industrial and Mining Development

LIST OF TABLES

Table No.	
1	Current or Recent Irrigation Surface Water Claims
2	Future Additional Irrigation Surface Water Claims
3	Evaporation From Irrigation Storage Current or Recent and Future Surface Water Claims
4	Current or Recent Irrigation Ground Water Claims
5	Future Additional Irrigation Ground Water Claims
6	Municipal Water Use Current or Recent, and Future Ground Water Claims
7	Domestic Water Use Current or Recent, and Future Ground Water Claims
8	Recreational Lake Evaporation Current or Recent Surface Water Claims
9	Future Recreational Lake Evaporation Surface Water Claims
10	Stockwater Use (Livestock Consumption) Current or Recent, and Future Ground Water Claim
10A	Stockwater Use (Evaporation) Current or Recent, and Future Ground Water Claim
11	Stockpond Use (Livestock Consumption) Current or Recent, and Future Surface Water Claims
11A	Stockpond Use (Evaporation) Current or Recent, and Future Surface Water Claim
12	Industrial Water Use Current or Recent, and Future Ground Water Claims
13	Mining Water Use Current or Recent, and Future Ground Water Claims
13A	Mining Water use (Evaporation) Current or Recent, and Future Surface Water Claims

IRRIGATION WATER USE (SURFACE WATER)

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Current or recent use of surface water for irrigation and the diversion of water from the Little Colorado River to an off-stream reservoir for future irrigation.

Location and Source of Water Use

There are 12,586 acres of currently or recently irrigated lands using surface water. The irrigated areas and their respective diversion points on both the Hopi and Navajo Indian Reservations are shown on Table 1.

The potentially irrigable lands served from the main stem of the Little Colorado River are shown on Map No. 1. Water will be diverted via a canal from the Little Colorado River and stored in an off-stream reservoir. Of the 219,700 acres of potentially irrigable land, 64,480 acres will be directly served from the Little Colorado River. Table 2 shows 19,103 acres additional potentially irrigable land to receive water from the various tributaries of the Little Colorado River, within the boundaries of the Reservations.

Estimated Annual Water Demand (Acre-feet/year)

Current or recent irrigation water use	33,190
Future additional water use	254,720
Total irrigation water use	287,910

EVAPORATION FROM IRRIGATION STORAGE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Evaporation from both current or recent, and planned future irrigation reservoirs.

Location of Water Use

The claims for the current or recent, and future irrigation reservoirs on the tributaries of the Little Colorado River are shown on Table 3. The location of the off-stream irrigation storage supplied by a canal from the main stem of the Little Colorado River is shown on Map No. 1. The reservoir is used to store water from the Little Colorado River throughout the year for irrigation use.

Estimated Annual Water Demand (Acre-feet/year)

Current or recent evaporation water use	1,155
Future additional evaporation water use	30,367
Total evaporation water use	31,522
Onetime filling demand for future use	330,00 acre-feet

IRRIGATION WATER USE (GROUND WATER)

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Current or recent and future use of ground water for irrigation.

Location and Source of Water Use

The current or recent irrigated areas using ground water and their respective diversion points are shown on Table 4. There are 676 acres of land currently or recently under irrigation from ground water.

Ground water for proposed future irrigation projects will be diverted from three aquifers: (1) N-aquifer, mainly the Navajo Sandstone; (2) C-aquifer, mainly the Coconino Sandstone; and (3) the alluvium of the Little Colorado River. The proposed general vicinity of potentially irrigable land to to be served by ground water is shown on Map No. 2. Ground water from the Little Colorado River alluvium will be used to serve potentially irrigable lands delineated on Map No. 1. Of the 219,700 acres of potentially irrigable land, delineated on Map No. 1, 4,529 acres will be served by ground water from the Little Colorado River alluvium. Of the potentially irrigable land delineated on Map No. 2, 30,072 acres of irrigable land will be irrigated with ground water. Table 5 lists the location of proposed diversion points and the approximate demand for water per use area.

Estimated Annual Water Demand (Acre-feet/year) 1/	
Current or recent irrigation water use	2,859
Future additional irrigation water use	106,825
Total irrigation water use	109,684

1/ All ground water sources underlying the Reservations are expressly claimed on behalf of the Navajo and Hopi Tribes for exclusive present and future use by the Tribes. The ground water amount set forth in this statement of claimant merely represents alternative uses which can be quantified with presently available information, and are not intended to represent a limit on the Tribes' overall ground-water rights.

MUNICIPAL WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Municipal water use for communities, towns and villages.

Location and Source of Water Use

The locations of present water uses for public water supply purposes are summarized in Table 6. Future additional municipal water uses will occur throughout the Reservations by expanding the present communities and by changing from water hauling practices to public water supply systems.

The source of water for both present and future municipal use is ground water present in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations.

Estimated Annual Water Demand (Acre-feet/year)

Present municipal water use	4,296
Future additional municipal water use	53,069
Total municipal water use	57,365

DOMESTIC WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Domestic water use for homesites and farmsteads.

Location and Source of Water Use

The locations of present water uses for domestic purposes are summarized in Table 7. Future additional domestic water uses will occur throughout the Reservations.

The source of water for both present and future domestic uses is ground water present in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations.

Estimated Annual Water Demand (Acre-feet/year)

Present domestic water use	298
Future additional domestic water use	33
Total domestic water use	331

RECREATION WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Present recreation water use is for camping, fishing and evaporation from lakes. Proposed additional future water uses include additional lakes and related facilities on both the Hopi and Navajo Indian Reservations.

Location and Source of Water Use

The locations of the existing recreation lakes are shown on Table 8. The locations of future additional recreation lakes are shown on Table 9. The sources of water for the recreation lakes are the watersheds tributary to the lakes.

Estimated Annual Water Demand (Acre-feet/year)

Present recreation water use (Table 8)	2,316
Future additional recreation water use (Table 9)	378
Total potential recreation water use	2,694
Onetime filling demand	1,082 acre-feet

STOCKWATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Livestock consumption and evaporation from troughs.

Location and Source of Water Use

The locations of existing stockwater facilities are listed on Tables 10 and 10A. Where UTM coordinates are not given refer to Map No. 3. Additional future stock water use will be located throughout the Reservations.

Sources of water for both present and future stock water purposes is ground water present in varous aquifers and water-bearing rocks and deposits that are located throughout the Reservations.

Estimated Annual Water Demand (Acre-feet/year)

Present stockwater use	635
Additional future stockwater use	119
Total stockwater use	754

STOCKPOND WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Livestock consumption and evaporation from stockponds.

Location and Sources of Water Use

The locations of existing stockpond water use are listed on Tables 11 and 11A. Additional future stockpond water use will be located throughout the Reservations.

Sources of both present and additional future stockpond water uses are Little Colorado River and its tributaries.

Estimated Annual Water Demand (Acre-feet/year)

Present stockpond water use	3,721
Additional future stockpond water use	176
Total potential stockpond water use	3,897

INDUSTRIAL WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Water consumed for processing, light industries, steam power plant cooling and other miscellaneous industrial applications.

Location and Source of Water Use

The locations of present and future industrial water uses are shown on Map No. 4. The sources for present and future additional industrial water use are primarily the N-aquifer (mainly the Navajo Sandstone) and the C-aquifer (mainly the Coconico Sandstone). However, ground water present in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations may be used for industrial purposes. Present uses and locations are given in Table 12.

Estimated Annual Water Demand (Acre-feet/year)

Present industrial water use	129
Additional future industrial water use	33,072
Total potential industrial water use	33,201

MINING WATER USE

Navajo and Hopi Indian Reservations
Little Colorado River Basin, Arizona

Description of Water Use

Water consumption for dust control, construction, pipeline slurry, and potable purposes, evaporation from sedimentation ponds and related mining activities.

Location and Source of Water Use

The location of present mining water use is at the Peabody Coal Company mine on Black Mesa. Future mining activities will be located throughout the Reservations. The locations of major future mining activities for coal are shown on Map No. 4. Additional future evaporation will come from future sedimentation ponds to be located at or near the future mine sites. Tables 13 and 13A present mining water use and evaporation from sedimentation ponds.

Sources of mining water use will be primarily the N-aquifer (mainly the Navajo Sandstone) and the C-aquifer (mainly the Coconino Sandstone). However, ground water present in various aquifers and water-bearing rocks and deposits that are distributed throughout the Reservation may be used for mining purposes.

Estimated Annual Water Demand (Acre-feet/year)

Present mining water use	8,449
Additional future mining water use	11,065
Total mining water use	19,514

Table 1

CURRENT OR RECENT IRRIGATION
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

NAME	POINT OF DIVERSION UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
RED LAKE	677600	3976000	771.0	2,891
FORT DEFIANCE	671600	3962200	159.0	596
NATURAL BRIDGE	673600	3949000	41.0	154
HOUCK	662200	3906800	236.0	1,003
COLDFIELD	636800	3959200	210.0	823
KINLICHEE	641400	3956800	215.0	914
GANADO	634300	3954600	845.0	3,591
CORNFIELDS	624200	3949400	480.0	2,040
KLAGETOH	635000	3931000	300.0	1,275
SHONTO	532600	4051200	102.0	434
UPPER BEGASHIBITO	513000	4029400	86.0	366
RED LAKE 2	506200	4076800	625.0	2,656
RESERVOIR CANYON/ MOENCOPI-TUBA	478800	3995200	1,400.0	6,650
LOWER MOENKOPI	466600	3990000	90.0	428
TOLANI LAKES	513800	3926800	400.0	1,700
LOWER DINNEBITO	537200	3989800	208.0	884
NATONIS	500200	3937800	101.0	480
BEGASHIBITO 1	503000	4012000	202.7	168
BEGASHIBITO 2	502000	4011000	768.4	638
MOENKOPI 3	512000	4005000	307.5	255
MOENKOPI 4	512700	4001700	16.9	14
MOENKOPI 10	500800	3992000	64.8	54
DINNEBITO 5	546200	4001200	7.5	6
DINNEBITO 6	548200	4004600	9.1	8
DINNEBITO 7	550200	4007900	5.0	4
DINNEBITO 8	550500	4009100	59.6	49
DINNEBITO 9	551100	4010100	17.0	14
DINNEBITO 13	520500	3974000	98.5	82
DINNEBITO 27	513000	3960500	254.8	211
DINNEBITO 28	515200	3956900	40.1	33
DINNEBITO 29	517800	3965200	243.5	202
DINNEBITO 30	520000	3969200	22.0	18
DINNEBITO 44	505300	3953100	73.4	220
DINNEBITO 53	537500	3989600	71.0	302

Table 1 (Continued)

CURRENT OR RECENT IRRIGATION
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

NAME	POINT OF DIVERSION UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
ORAIBI 11	543500	3985400	45.8	38
ORAIBI 12	551100	3999500	62.5	52
ORAIBI 16	538000	3971300	54.0	45
ORAIBI 17	537800	3973000	29.5	24
ORAIBI 18	538400	3975800	50.8	42
ORAIBI 19	541000	3978000	291.8	242
ORAIBI 20	541300	3977500	21.9	18
ORAIBI 21	542000	3979000	75.3	62
ORAIBI 31	526500	3964900	25.9	21
ORAIBI 32	533000	3963000	87.9	73
ORAIBI 46	528700	3953000	318.2	264
ORAIBI 52	517200	3932300	772.6	641
WEPO 23	557800	3976000	30.1	25
WEPO 24	558900	3975700	10.0	8
WEPO 38	551900	3964000	812.2	674
WEPO 39	550800	3966200	35.8	30
POLACCA 35	551600	3958600	611.9	508
POLACCA 36	555500	3962000	106.1	88
POLACCA 37	555000	3963800	40.8	34
POLACCA 25	545800	3974000	44.6	37
POLACCA 26	556000	3982000	68.4	57
POLACCA 33	540600	3956200	29.5	24
POLACCA 34	544000	3957000	7.0	6
POLACCA 40	556700	3963000	42.7	35
POLACCA 49	548000	3955000	86.6	72
POLACCA 55	537500	3944000	50.0	213
TALAHOGAN	560000	3954000	99.2	82
JEDDITO	553800	3942000	144.0	612
		TOTAL	12,585.9	33,190

Table 2

FUTURE ADDITIONAL IRRIGATION
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
NAVAJO AND HOPI INDIAN RESERVATIONS, ARIZONA

NAME	POINT OF DIVERSION UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
LEUPP	521100	3896700	64,480	206,000
LOWER MOENKOPI	482000	3996000	1,500	4,022
LOWER DINNEBITO	534000	3987000	580	2,240
LOWER ORAIBI	551000	3993000	650	2,504
WEPO	555000	3971000	320	1,254
POLACCA	542000	3947000	730	2,816
LOWER JEDDITO	556000	3942000	590	2,289
UPPER MOENKOPI	548700	4030250	2,757	6,287
UPPER DINNEBITO	555400	4015400	513	1,170
UPPER ORAIBI	559300	4001700	2,800	6,384
UPPER JEDDITO	577500	3956750	755	1,721
WIDE RUINS	635900	3920000	1,123	2,562
BLACK CREEK	664040	3915560	6,785	15,471
		TOTAL	83,583	254,720

NOTE: The total claims represent various alternative uses of water from the tributaries of the Little Colorado River which could represent more water (with the exception of the Leupp Project) than the available water supply from those tributaries.

Table 3

EVAPORATION FROM IRRIGATION STORAGE
CURRENT OR RECENT, AND FUTURE
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
NAVAJO-HOPI INDIAN RESERVATIONS, ARIZONA

IMPOUNDMENT NAME	UTM COORDINATES EASTING	UTM COORDINATES NORTHING	EVAPORATION (ACRE-FEET)
BLUE CANYON DAM	671200	3962500	92
COLD FIELD RES.	635850	3956120	217
COW SPRINGS RES.	512000	4028430	158
GANADO LAKE	634150	3954900	52
KLAGETOH DAM	634820	3931260	42
LOKASAKAD	578000	3916360	66
MOENAVE VANZEE	469855	3999960	11
NATURAL BRIDGE	673150	3949750	130
OAK SPRING RES.	668590	3925750	5
PASTURE CANYON	480644	3998910	79
RED LAKE RESERVOIR	677000	3976250	76
RED LAKE 2	506000	4019000	153
SHEEP DIP RESERVOIR	481050	3997600	13
SHONTO RESERVOIR	532600	4052300	7
LITTLE FIELD	467120	4001650	11
WILLOW SPRING RES.	468370	4000460	11
BUELL PARK DAM	673345	3974150	3
LOWER RESERVOIR	481000	3998000	29
CURRENT OR RECENT SUBTOTAL			1,155
UPPER MOENKOPI	548700	4030250	589
UPPER DINNEBITO	555400	4015400	155
UPPER ORAIBI	559300	4001700	1,035
UPPER JEDDITO	577500	3956750	274
WIDE RUINS	635900	3920000	381
BLACK CREEK	664040	3915560	784
LOWER MOENKOPI	482000	3996000	2,019
LOWER DINNEBITO	534000	3987000	500
LOWER ORAIBI	551000	3993000	540
WEPO	555000	3971000	330
POLACCA	542000	3947000	620
LOWER JEDDITO	556000	3942000	540
LEUPP	500000	3915000	22,600 *
FUTURE SUBTOTAL			30,367
GRAND TOTAL			31,522

ONE TIME FILLING DEMAND FOR FUTURE USE = 330,000 ACRE-FEET

Table 4

CURRENT OF RECENT IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

NAME	POINT OF DIVERSION UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
OAK SPRINGS	669800	3927600	42.0	168
MOENAVE/VANZEE	471800	3998200	145.0	664
WILLOW SPRINGS/ LITTLEFIELD	468800	3999200	102.0	467
TUBA CITY SCHOOL	478420	3998420	21.0	118
CAMERON 2	465736	3968503	60.0	256
LOKASAKAD	578600	3916800	69.0	281
BEAVER FARMS	490312	3916546	60.0	229
BIRDSPRINGS FARMS	508995	3903781	35.0	117
NORTH LEUPP FARMS	499775	3906053	100.0	434
DINNEBITO 14	529600	3974600	5.0	13
ORAIBI 15	530000	3974550	2.0	5
ORAIBI 22	538000	3971000	6.5	16
POLACCA 41	573900	3962500	5.0	13
POLACCA 42	570100	3962100	2.0	5
POLACCA 43	568500	3960400	2.0	5
DINNEBITO 45	506200	3952500	2.0	5
ORAIBI 47	527800	3950400	1.0	3
POLACCA 48	541800	3945700	12.0	50
JEDDITO 50	565300	3954900	4.0	10
		TOTAL	675.5	2,859

Table 5

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
487807	3989073	34.5	117
488945	3990211	34.5	117
488945	3987935	34.5	117
490083	3989073	34.5	117
480979	3991349	43.7	132
482117	3992487	43.7	132
482117	3990211	43.7	132
483255	3991349	43.7	132
483255	3989073	42.8	146
484393	3990211	42.8	146
484393	3987935	42.8	146
485531	3989073	42.8	146
478703	3989073	39.4	119
479841	3990211	39.4	119
479841	3987935	39.4	119
480979	3989073	39.4	119
485531	3986797	34.5	117
486669	3987935	34.5	117
486669	3985659	34.5	117
487807	3986797	34.5	117
478703	3993625	42.3	128
479841	3994763	42.3	128
479841	3992487	42.3	128
480979	3993625	42.3	128
510567	3984521	51.0	154
511705	3985659	51.0	154
511705	3984521	51.0	154
511705	3983383	51.0	154
512843	3984521	51.0	154
474151	3993625	37.9	115
475289	3994763	37.9	115
475289	3992487	37.9	115
476427	3993625	37.9	115
484393	3992820	32.1	97
484393	3994429	32.1	97
474151	3989073	29.2	88
475289	3990211	29.2	88
475289	3987935	29.2	88
476427	3989073	29.2	88
476427	3991349	36.4	110
477565	3992487	36.4	110
477565	3990211	36.4	110
478703	3991349	36.4	110

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	UTM COORDINATES NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
476427	3995901	42.3	128
477565	3997039	42.3	128
477565	3994763	42.3	128
478703	3995901	42.3	128
488945	3983716	26.2	89
488945	3985325	26.2	89
482117	3985992	26.2	89
482117	3987601	26.2	89
491221	3985992	23.5	80
491221	3987601	23.5	80
485531	3991349	35.0	106
486669	3992487	35.0	106
486669	3990211	35.0	106
487807	3991349	35.0	106
471875	3991349	30.6	92
473013	3992487	30.6	92
473013	3990211	30.6	92
474151	3991349	30.6	92
508291	3982245	39.4	119
509429	3983383	39.4	119
509429	3982245	39.4	119
509429	3981107	39.4	119
510567	3982245	39.4	119
491221	3981440	27.6	94
491221	3983049	27.6	94
520809	3960956	43.7	132
520809	3962565	43.7	132
520809	3965508	46.6	141
520809	3967117	46.6	141
533326	3952658	40.8	123
534464	3953796	40.8	123
534464	3951520	40.8	123
535602	3952658	40.8	123
523085	3964037	55.4	167
528775	3952658	33.5	101
529913	3953796	33.5	101
529913	3951520	33.5	101
531051	3952658	33.5	101
518533	3963232	35.0	106
518533	3964841	35.0	106
516257	3957209	29.2	88
523085	3958680	37.9	115
523085	3960289	37.9	115

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
518533	3959485	30.6	92
504877	3972336	27.7	84
504877	3973945	27.7	84
507153	3979164	32.1	97
507153	3980773	32.1	97
504877	3976888	27.7	84
504877	3978497	27.7	84
507153	3970060	24.8	75
507153	3971669	24.8	75
495773	3981440	30.6	92
495773	3983049	30.6	92
498049	3979164	37.9	115
498049	3980773	37.9	115
500325	3981440	30.6	92
500325	3983049	30.6	92
500325	3976888	26.2	79
500325	3978497	26.2	79
502601	3979164	37.9	115
502601	3980773	37.9	115
469599	4002729	36.4	110
470737	4003867	36.4	110
470737	4001591	36.4	110
471875	4002729	36.4	110
471875	4005005	26.2	79
473013	4006143	26.2	79
473013	4003867	26.2	79
474151	4005005	26.2	79
471875	4000453	36.4	110
473013	4001591	36.4	110
473013	3999315	36.4	110
474151	4000453	36.4	110
474151	4002729	27.7	84
475289	4003867	27.7	84
475289	4001591	27.7	84
476427	4002729	27.7	84
474151	3998177	40.8	123
475289	3999315	40.8	123
475289	3997039	40.8	123
476427	3998177	40.8	123
467324	4000453	33.5	101
468462	4001591	33.5	101
468462	3999315	33.5	101
469600	4000453	33.5	101

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
469599	3998177	35.0	106
470737	3999315	35.0	106
470737	3997039	35.0	106
471875	3998177	35.0	106
469599	3993625	29.2	88
470737	3994763	29.2	88
470737	3992487	29.2	88
471875	3993625	29.2	88
471875	3995901	37.9	115
473013	3997039	37.9	115
473013	3994763	37.9	115
474151	3995901	37.9	115
501463	3984521	32.1	97
502601	3985659	32.1	97
502601	3983383	32.1	97
503739	3984521	32.1	97
503739	3986797	35.0	106
504877	3987935	35.0	106
504877	3985659	35.0	106
506015	3986797	35.0	106
506015	3989073	52.5	159
506584	3989642	52.5	159
507153	3990211	52.5	159
507153	3989073	52.5	159
507153	3987935	52.5	159
507722	3988504	52.5	159
508291	3989073	52.5	159
503739	3982245	32.1	97
504877	3983383	32.1	97
504877	3981107	32.1	97
506015	3982245	32.1	97
506015	3984521	37.9	115
507153	3985659	37.9	115
507153	3984521	37.9	115
507153	3983383	37.9	115
508291	3984521	37.9	115
508291	3986797	61.2	185
508860	3987366	61.2	185
509429	3987935	61.2	185
509429	3986797	61.2	185
509429	3985659	61.2	185
509998	3986228	61.2	185
510567	3986797	61.2	185

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
512843	4018660	46.6	141
513412	4019229	46.6	141
513981	4019798	46.6	141
513981	4017522	46.6	141
514550	4018091	46.6	141
515119	4018660	46.6	141
515119	4020936	61.2	185
515688	4021505	61.2	185
516257	4022074	61.2	185
515688	4020367	61.2	185
516826	4021505	61.2	185
516257	4019798	61.2	185
516826	4020367	61.2	185
517395	4020936	61.2	185
515119	4016385	71.4	216
515688	4016954	71.4	216
516257	4017523	71.4	216
515688	4015816	71.4	216
516826	4016954	71.4	216
516257	4015247	71.4	216
516826	4015816	71.4	216
517395	4016385	71.4	216
517395	4018660	48.1	145
517964	4019229	48.1	145
518533	4019798	48.1	145
518533	4017522	48.1	145
519102	4018091	48.1	145
519671	4018660	48.1	145
524223	4020936	76.3	174
524792	4021505	76.3	174
525361	4022074	76.3	174
525361	4020936	76.3	174
525361	4019798	76.3	174
525930	4020367	76.3	174
526499	4020936	76.3	174
526499	4023212	64.4	147
527068	4023781	64.4	147
527637	4024350	64.4	147
527068	4022643	64.4	147
528206	4023781	64.4	147
527637	4022074	64.4	147
528206	4022643	64.4	147
528775	4023212	64.4	147

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
528775	4025488	52.5	120
529344	4026057	52.5	120
529913	4026626	52.5	120
529913	4025488	52.5	120
529913	4024350	52.5	120
530482	4024919	52.5	120
531051	4025488	52.5	120
501463	3993625	32.1	97
502601	3994763	32.1	97
502601	3992487	32.1	97
503739	3993625	32.1	97
502601	3989073	26.2	79
504877	3990544	33.5	101
504877	3992153	33.5	101
506015	3993625	70.0	211
506584	3994194	70.0	211
507153	3994763	70.0	211
507153	3993625	70.0	211
507153	3992487	70.0	211
507722	3993056	70.0	211
508291	3993625	70.0	211
517395	4023212	43.7	132
517964	4023781	43.7	132
518533	4024350	43.7	132
518533	4022074	43.7	132
519102	4022643	43.7	132
519671	4023212	43.7	132
519671	4025488	49.6	150
520240	4026057	49.6	150
520809	4026626	49.6	150
520809	4024350	49.6	150
521378	4024919	49.6	150
521947	4025488	49.6	150
519671	4020936	61.2	185
520240	4021505	61.2	185
520809	4022074	61.2	185
520809	4020936	61.2	185
520809	4019798	61.2	185
521378	4020367	61.2	185
521947	4020936	61.2	185
521947	4023212	36.4	110
522516	4023781	36.4	110
523085	4024350	36.4	110

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
523085	4022074	36.4	110
523654	4022643	36.4	110
524223	4023212	36.4	110
501463	3998177	32.1	97
502601	3999315	32.1	97
502601	3997039	32.1	97
503739	3998177	32.1	97
503739	4000453	77.3	233
504308	4001022	77.3	233
504877	4001591	77.3	233
504877	3999315	77.3	233
505446	3999884	77.3	233
506015	4000453	77.3	233
503739	3995901	53.9	163
504308	3996470	53.9	163
504877	3997039	53.9	163
504877	3994763	53.9	163
505446	3995332	53.9	163
506015	3995901	53.9	163
506015	3998177	112.2	339
506584	3998746	112.2	339
507153	3999315	112.2	339
507153	3997039	112.2	339
507722	3997608	112.2	339
508291	3998177	112.2	339
543568	3942749	33.5	101
543568	3944358	33.5	101
493497	4006476	29.2	88
493497	4008085	29.2	88
494635	4005005	30.6	92
495773	4006143	30.6	92
495773	4003867	30.6	92
496911	4005005	30.6	92
496911	4007281	39.4	119
497480	4007850	39.4	119
498049	4008419	39.4	119
498049	4006143	39.4	119
498618	4006712	39.4	119
499187	4007281	39.4	119
498049	4001924	42.3	128
498049	4003533	42.3	128
499187	4005005	37.9	115
499756	4005574	37.9	115

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
500325	4006143	37.9	115
500325	4005005	37.9	115
500325	4003867	37.9	115
500894	4004436	37.9	115
501463	4005005	37.9	115
500325	4000453	32.1	97
501463	4002729	48.1	145
502032	4003298	48.1	145
502601	4003867	48.1	145
502601	4002729	48.1	145
502601	4001591	48.1	145
503170	4002160	48.1	145
503739	4002729	48.1	145
521947	4027764	47.5	108
522516	4028333	47.5	108
523085	4028902	47.5	108
523085	4026626	47.5	108
523654	4027195	47.5	108
524223	4027764	47.5	108
524223	4030040	61.0	139
524792	4030609	61.0	139
525361	4031178	61.0	139
525361	4028902	61.0	139
525930	4029471	61.0	139
526499	4030040	61.0	139
524223	4025488	52.5	120
524792	4026057	52.5	120
525361	4026626	52.5	120
525361	4024350	52.5	120
525930	4024919	52.5	120
526499	4025488	52.5	120
526499	4027764	47.5	108
527068	4028333	47.5	108
527637	4028902	47.5	108
527637	4026626	47.5	108
528206	4027195	47.5	108
528775	4027764	47.5	108
526499	4032316	54.2	124
527068	4032885	54.2	124
527637	4033454	54.2	124
527637	4031178	54.2	124
528206	4031747	54.2	124
528775	4032316	54.2	124

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
528775	4034592	45.8	104
529344	4035161	45.8	104
529913	4035730	45.8	104
529913	4033454	45.8	104
530482	4034023	45.8	104
531051	4034592	45.8	104
528775	4030040	44.1	101
529344	4030609	44.1	101
529913	4031178	44.1	101
529913	4028902	44.1	101
530482	4029471	44.1	101
531051	4030040	44.1	101
531050	4032316	47.5	108
531619	4032885	47.5	108
532188	4033454	47.5	108
532188	4031178	47.5	108
532757	4031747	47.5	108
533326	4032316	47.5	108
537878	4030040	47.5	108
539016	4031178	47.5	108
539016	4028902	47.5	108
540154	4030040	47.5	108
517395	4014109	27.7	84
518533	4015247	27.7	84
518533	4012971	27.7	84
519671	4014109	27.7	84
519671	4016385	62.7	189
520809	4017523	62.7	189
520809	4015247	62.7	189
521947	4016385	62.7	189
521947	4018660	64.1	194
523085	4019798	64.1	194
523085	4017522	64.1	194
524223	4018660	64.1	194
510567	4016385	68.5	207
511705	4017523	68.5	207
511705	4015247	68.5	207
512843	4016385	68.5	207
510567	4011833	94.8	286
511705	4012971	94.8	286
511705	4010695	94.8	286
512843	4011833	94.8	286
512843	4014109	94.8	286

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	UTM COORDINATES NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
513981	4015247	94.8	286
513981	4012971	94.8	286
515119	4014109	94.8	286
510567	3979969	30.6	92
511705	3981107	30.6	92
511705	3978831	30.6	92
512843	3979969	30.6	92
501463	4011833	61.2	185
502601	4012971	61.2	185
502601	4010695	61.2	185
503739	4011833	61.2	185
503739	4014109	51.0	154
504877	4015247	51.0	154
504877	4012971	51.0	154
506015	4014109	51.0	154
485531	3968589	80.2	242
486669	3969727	80.2	242
486669	3967451	80.2	242
487807	3968589	80.2	242
526499	4018660	37.3	85
527637	4019798	37.3	85
527637	4017522	37.3	85
528775	4018660	37.3	85
528775	4020936	40.7	93
529913	4022074	40.7	93
529913	4019798	40.7	93
531051	4020936	40.7	93
531050	4023212	32.2	73
532188	4024350	32.2	73
532188	4022074	32.2	73
533326	4023212	32.2	73
533326	4025488	42.4	97
534464	4026626	42.4	97
534464	4024350	42.4	97
535602	4025488	42.4	97
506015	4002729	87.5	264
507153	4003867	87.5	264
507153	4001591	87.5	264
508291	4002729	87.5	264
501335	3902898	138.1	470
501335	3902362	138.1	470
502945	3902898	138.1	470
502945	3902362	138.1	470

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
486851	3901289	41.4	141
486851	3900752	41.4	141
501335	3901289	138.1	470
501335	3900752	138.1	470
502945	3901289	138.1	470
502945	3900752	138.1	470
485242	3899679	41.4	141
485242	3899143	41.4	141
486851	3899679	55.2	188
486851	3899143	55.2	188
501335	3899679	138.1	470
501335	3899143	138.1	470
502945	3899679	138.1	470
502945	3899143	138.1	470
504554	3899679	138.1	470
504554	3899143	138.1	470
502945	3898070	138.1	470
502945	3897534	138.1	470
504554	3898070	138.1	470
504554	3897534	138.1	470
506164	3898070	138.1	470
506164	3897534	138.1	470
504554	3896461	138.1	470
504554	3895924	138.1	470
506164	3896461	138.1	470
506164	3895924	138.1	470
506164	3894851	138.1	470
506164	3894315	138.1	470
507773	3894851	138.1	470
507773	3894315	138.1	470
507773	3893242	138.1	470
507773	3892706	138.1	470
509382	3893242	138.1	470
509382	3892706	138.1	470
490070	3912554	69.1	235
490070	3912018	69.1	235
491679	3912554	151.9	517
491679	3912018	151.9	517
493289	3912554	165.7	564
493289	3912018	165.7	564
490070	3910945	82.9	282
490070	3910408	82.9	282
491679	3910945	138.1	470

Table 5 (Continued)

FUTURE ADDITIONAL IRRIGATION
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

UTM COORDINATES EASTING	NORTHING	ACREAGE	WATER REQUIREMENT (ACRE-FEET)
491679	3910408	138.1	470
493289	3910945	117.4	399
493289	3910408	117.4	399
494898	3910677	151.9	517
494898	3910408	151.9	517
488461	3909336	41.4	141
488461	3908799	41.4	141
490070	3909336	41.4	141
490070	3908799	41.4	141
494898	3909336	138.1	470
494898	3908799	138.1	470
496507	3909336	138.1	470
496507	3908799	138.1	470
498117	3909336	138.1	470
498117	3908799	138.1	470
488461	3907726	55.2	188
488461	3907190	55.2	188
490070	3907726	41.4	141
490070	3907190	41.4	141
496507	3907726	138.1	470
496507	3907190	138.1	470
498117	3907726	138.1	470
498117	3907190	138.1	470
499726	3907726	138.1	470
499726	3907190	138.1	470
488461	3906117	41.4	141
488461	3905580	41.4	141
498117	3906117	138.1	470
498117	3905580	138.1	470
499726	3906117	138.1	470
499726	3905580	138.1	470
488461	3904507	41.4	141
488461	3903971	41.4	141
499726	3904507	138.1	470
499726	3903971	138.1	470
501335	3904507	138.1	470
501335	3903971	138.1	470
488461	3902898	41.4	141
488461	3902362	41.4	141
	SUBTOTAL	30,071.5	91,425
LITTLE COLORADO RIVER ALLUVIUM NEAR LEUPP		4,529.4	15,400
	TOTAL	34,600.9	106,825

Table 6

MUNICIPAL WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ COMMUNITY	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (Acre-Feet)
02T-518	524170	4035660	0
03K-318-1	478274	3998778	0
04K-300A	569971	3995541	0
04T-525	545000	3990120	0
07K-373	577771	3959136	0
17M-145	656005	3919290	0
17M-145C	655088	3919644	0
17M-86	632744	3929441	0
17T-500	633055	3929199	0
17T-522	609109	3942867	0
17T-568	604973	3930910	0
17T-579	632590	3928310	0
18K-353	673596	3946761	0
18T-342	674208	3949368	0
18T-569	660562	3928041	0
18T-571	673093	3973929	0
CAMERON 7	462501	3970064	0
CAMERON 8	462694	3970097	0
FD PM 4	671581	3958480	0
FD PM 5	671581	3958480	0
FT DEF PM8	674240	3957221	0
JEDDTO PM1	577723	3958911	0
LEUPP PM1*	499775	3906053	0
NTUA 3	478499	4001112	0
PHS 1	635243	3917580	0
PINON PHS1	571290	3994318	0
PINON PM 5	569327	3995847	0
ROCKY	536537	3991910	0
ROCKY PM1	536473	3991878	0
WHPRWL PM2	582556	3987462	0
FDPS #1	674079	3956980	46
04T-523	562930	4016620	2
03K-300 B	479019	4001062	136
03K-300 E	478369	4002949	253
03T-508	478998	4000516	143
03T-544	478354	4001498	120
03T-546	478467	4002029	130
03T-556	478450	4004180	2
04T-521	584168	4024060	3
17T-565A	619532	3948527	2
17T-574	620160	3947680	11
04M-89A	550405	3992600	5

Table 6 (Continued)

MUNICIPAL WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ COMMUNITY	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (Acre-Feet)
17T-566	634820	3952213	24
03$-1	473000	3997150	10
3-8-19	469255	3999780	4
03K-317	462773	4018780	0
03T-553	461920	4019199	46
03T-530	458236	3966250	11
03T-538B	457512	3965590	11
03T-551	463209	3969694	11
03T-552	463209	3969855	11
18T-540	669397	3927381	9
18K-321	665706	3974895	19
17T-558	633211	3929312	12
05T-505	499630	3905441	41
05T-510	500884	3905358	42
WHT CN PM1	584541	3940452	3
18T-570	671745	3939921	31
04T-522	574557	3991823	70
LEUPP PM1	503829	3904585	41
LEUPP PM2	499163	3905763	41
RED LK PM1	504638	4019971	24
ROCKY	536350	3992130	0
ROCKY PM2	536730	3991797	96
SHNT PM3	530923	4050042	62
SHONTO PM2	530585	4050364	62
SHONTO PM4	531004	4050493	62
L MTN PM2	580073	3978014	33
PINON 3	569810	3995766	0
PINON 4	569810	3995605	34
DILKON PM1	560490	3914808	6
DILKON PM2	563339	3912636	6
DILKON PM3	563435	3912459	6
DILKON PM4	563339	3912620	6
DILKON PM5	560667	3914857	6
GRSWD PM3	603960	3931270	22
GRWD PM 1	603638	3931377	22
GRWD PM 4	604215	3931530	22
GRWD PM 5	604360	3931770	22
18A-152	671327	3940307	8
HUNTER PT2	670780	3939760	8
KINLICHEE2	641172	3956627	10
PINE SPR 6	654460	3919563	2
PINE SPS 5	655893	3919209	2

Table 6 (Continued)

MUNICIPAL WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ COMMUNITY	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (Acre-Feet)
SEB DAL PM-1	554010	3928360	4
SEB DAL PM2	549593	3928711	4
SEB DAL PM6	550076	3928679	4
17K-347	635774	3919994	4
17K-347A	635243	3920477	4
WDE RUIN 3	635630	3920219	4
WDE RUIN 4	635694	3920090	4
WID RUIN 5	635662	3920428	4
TOYEI PM 2	595848	3951429	9
TOYEI PM 3	596379	3951445	9
TOYEI PM 4	594722	3951413	9
TOYEI PM 5	594400	3951461	9
TOYEI PM 6	593917	3951622	9
TOYEI PM 7	594480	3951976	9
TOYEI PM 8	593998	3952073	9
18T-521A	673029	3974412	22
18T-523A	673013	3973607	22
03T-557B	457850	3966035	0
03T-500A	505425	3979270	2
KEAMS CANYON	3963210	573100	47
TEWA/HANO	3965260	554630	38
WALPI	3965100	554470	15
SICHOMOVI	3965100	554890	61
SHIPAULOVI	3962580	545580	63
POLLACCA	3965100	555260	129
MISHONGNOVI	3962320	545950	88
SHUNGOPAVI	3962260	542315	135
KYKOTSMOVI	3970160	534630	151
OLD ORAIBI	3970160	532740	34
BACAVI	3975260	530790	57
HOTEVILLA	3975580	529370	176
MOENKOPI	3996100	480000	145
2ND MESA TRI	3960790	544790	4
		TOTAL	4,296

NOTE: WELLS WITH A CURRENT OR RECENT USE FIGURE OF ZERO MAY BE RE-ACTIVATED IN THE FUTURE. ADDITIONAL FUTURE USE TOTALS TO 53,069 ACRE-FEET AND WILL BE OBTAINED FROM EXISTING OR NEW WELLS. THE TOTAL FUTURE CLAIM IS THEREFORE 57,365 ACRE-FEET.

Table 7

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
01K-228	505427	4019311	2.00
02P-513	535000	4056000	2.00
02T-514	535977	4042478	2.00
03GS-77-5	479272	3996992	2.00
03P-350	478242	3997636	2.00
AZ INSPECT	675288	3913235	2.00
07P-386	584984	3918615	2.00
07T-536	584026	3942608	2.00
WHT CN TP	584525	3940468	2.00
17M-44P	632873	3953388	2.00
17T-571	602450	3927045	2.00
18A-134	671971	3947469	2.00
18A-207	656070	3905079	2.00
18P-370	675849	3948177	2.00
18T-371	673676	3947710	2.00
18T-504	675286	3951106	2.00
18T-504A	675286	3951106	2.00
18T-514	672949	3973607	2.00
2 STORY TP	670619	3947485	2.00
3 HOGANS 1	672230	3909855	2.00
3 HOGANS 2	672310	3909855	2.00
AHD CAMERO	462920	3970032	2.00
AHD LUPTON	676140	3913154	2.00
AZ HWY RST	669413	3907634	2.00
AZ INSP ST	463853	3972173	2.00
B ROGER TP	461439	3967168	2.00
BIG ARROW	658065	3906511	2.00
BLACK T P	674401	3956175	2.00
CEDAR PT	654380	3902021	2.00
COP MIN MS	459385	4052224	2.00
DILKON PM6	560716	3914969	2.00
GAP T.P. 1	458347	4018072	2.00
I-40-5 24	676780	3913981	2.00
IND TRAILS	675529	3913557	2.00
JEDDITO TP	577739	3959233	2.00
KERLEY TP	478290	3996944	2.00
L BAP MISS	498777	3905586	2.00
LOG CABIN	656955	3905884	2.00
LUPTON TP	674966	3913718	2.00
MEN MISS 1	601946	3927322	2.00
MORMAN MIS	670780	3947404	2.00
NVJO MISSN	671423	3939840	2.00

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Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
P F MISSN	618856	3945631	2.00
SUNRISE TP	500932	3905824	2.00
TOMAHAWK	676414	3915086	2.00
WELL 1 ST1	480028	3996718	2.00
WELL 1 ST2	480559	3997266	2.00
WHITE MOUN	661930	3906798	2.00
WHITING BRS	676253	3915005	2.00
01P-511	516113	4029482	2.00
1-2-11	461415	4051240	0.45
1-2-12	492805	4019560	0.45
1-2-7	486230	4032300	0.45
1-3-8	461280	4047080	0.45
1-4-4	529135	4042590	0.45
1-4-5	538260	4043340	0.45
1-5-1	517590	4027730	0.45
1-5-12	459345	4032090	0.45
1-5-2	471430	4012980	0.45
1-5-4	503560	4028694	0.45
1-5-5	471950	4033130	0.45
1-5-6	479620	4039340	0.45
1-5-8	524090	4048320	0.45
1-6-3	464910	4004290	0.45
1-7-1	516721	4035678	0.45
1-8-3	498720	4014090	0.45
1-8-5	497830	4013100	0.45
1-8-6	497330	4010580	0.45
1-8-9	520520	4029005	0.45
17-2-11	645356	3937154	0.45
17-2-12	627739	3946757	0.45
17-2-13	627126	3952318	0.45
17-2-14	610606	3947615	0.45
17-2-8	606703	3959736	0.45
17-2-9	632165	3953484	0.45
17-3-1	611893	3938876	0.45
17-3-12	605682	3959539	0.45
17-3-13	652143	3916296	0.45
17-3-14	635303	3945792	0.45
17-3-15	650396	3959897	0.45
17-3-16	652102	3960058	0.45
17-3-18	643251	3965852	0.45
17-3-19	653141	3925727	0.45
17-3-2	623594	3949154	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
17-3-20	646952	3969956	0.45
17-3-21	630829	3952792	0.45
17-3-22	633650	3929478	0.45
17-3-23	622219	3949413	0.45
17-3-3	615381	3940395	0.45
17-3-4	600014	3923379	0.45
17-3-5	609319	3935980	0.45
17-3-6	603364	3929864	0.45
17-3-7	602237	3929140	0.45
17-3-8	636999	3922862	0.45
17-4-1	632243	3953439	0.45
17-4-10	603364	3929381	0.45
17-4-11	610928	3939037	0.45
17-4-12	653467	3929590	0.45
17-4-14	621141	3948206	0.45
17-4-16	593605	3893238	0.45
17-4-18	601302	3926598	0.45
17-4-19	640528	3956788	0.45
17-4-2	638018	3916678	0.45
17-4-21	655382	3947856	0.45
17-4-22	650059	3960050	0.45
17-4-23	652907	3969392	0.45
17-4-4	614301	3952149	0.45
17-4-7	619516	3932836	0.45
17-4-8	600145	3945475	0.45
17-5-10	603858	3931159	0.45
17-5-13	631441	3943458	0.45
17-5-16	650962	3959980	0.45
17-5-17	644650	3955850	0.45
17-5-18	652189	3941847	0.45
17-5-2	603776	3931076	0.45
17-5-20	651081	3924842	0.45
17-5-21	615851	3908938	0.45
17-5-22	606148	3934370	0.45
17-5-24	644230	3943109	0.45
17-5-25	636275	3919756	0.45
17-5-26	629882	3912849	0.45
17-5-27	635776	3919129	0.45
17-5-4	616849	3945107	0.45
17-5-6	619532	3943860	0.45
17-5-7	621302	3940722	0.45
17-5-8	600819	3924989	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
17-6-1	610606	3948452	0.45
17-6-11	658061	3969515	0.45
17-6-13	645046	3922025	0.45
17-6-14	639413	3921736	0.45
17-6-2	634466	3955609	0.45
17-6-3	628472	3950468	0.45
17-6-5	616234	3942189	0.45
17-6-7	613793	3940419	0.45
17-6-8	589136	3968055	0.45
17-7-1	607000	3934117	0.45
17-7-3	625421	3949421	0.45
17-7-4	622589	3949622	0.45
17-7-6	626822	3950539	0.45
17-8-2	654999	3966013	0.45
17-8-3	654999	3961990	0.45
17-9-1	619910	3956955	0.45
17-9-2	632245	3953195	0.45
18-2-15	675913	3977979	0.45
18-2-18	663322	3933947	0.45
18-2-19	675443	3972722	0.45
18-3-1	657277	3902102	0.45
18-3-2	672308	3950301	0.45
18-3-4	674161	3914844	0.45
18-4-1	665358	3904834	0.45
18-4-12	674638	3976102	0.45
18-4-13	672389	3938421	0.45
18-4-14	658480	3906559	0.45
18-4-15	674966	3902774	0.45
18-4-17	656231	3910309	0.45
18-4-18	676897	3906959	0.45
18-4-2	676092	3923213	0.45
18-4-21	669006	3969986	0.45
18-4-22	664837	3967894	0.45
18-4-24	671665	3941450	0.45
18-4-4	672951	3895643	0.45
18-4-5	534404	3926639	0.45
18-4-6	673757	3952876	0.45
18-4-9	673673	3967894	0.45
18-5-1	665227	3935833	0.45
18-5-11	674999	3953146	0.45
18-5-14	505500	4019300	0.45
18-5-17	676179	3966630	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
18-5-19	665613	3975217	0.45
18-5-2	676253	3907924	0.45
18-5-3	656665	3920674	0.45
18-5-4	657631	3919531	0.45
18-5-5	657389	3919434	0.45
18-6-1	658569	3907620	0.45
18-6-10	676179	3966179	0.45
18-6-11	676230	3968110	0.45
18-6-12	664859	3974459	0.45
18-6-15	675121	3977872	0.45
18-6-16	669573	3947243	0.45
18-6-2	670540	3904223	0.45
18-6-3	675899	3914281	0.45
18-6-6	654863	3929187	0.45
18-6-7	659596	3928057	0.45
18-7-3	674299	3984649	0.45
18-7-7	673356	3905993	0.45
18-7-8	676012	3906444	0.45
18-8-1	664100	3972669	0.45
18-8-5	665389	3967519	0.45
18-8-6	667238	3929539	0.45
18-9-1	651860	3900524	0.45
18-9-6	670055	3948048	0.45
2-3-2	525880	4025790	0.45
2-4-6	519560	4037520	0.45
2-5-3	524580	4030160	0.45
2-5-4	522600	4030040	0.45
2-6-2	524300	4030620	0.45
2-6-6	525020	4050428	0.45
2-6-7	516300	4050360	0.45
2-7-1	538250	4029820	0.45
2-7-2	528840	4033400	0.45
2-7-3	532660	4036460	0.45
2-8-1	524580	4030160	0.45
3-2-12	460200	4015760	0.45
3-2-14	475325	4010425	0.45
3-2-16	476620	3950620	0.45
3-2-17	459320	3966220	0.45
3-2-18	499712	3992796	0.45
3-3-1	475850	4001597	0.45
3-3-11	463680	3982040	0.45
3-3-12	472080	3969250	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
3-3-8	469768	4013908	0.45
3-3-9	479728	4009799	0.45
3-4-10	488200	3938300	0.45
3-4-12	460950	3969200	0.45
3-4-3	471799	4008725	0.45
3-4-5	476620	3950620	0.45
3-5-10	468100	3968450	0.45
3-5-2	472619	3998155	0.45
3-5-7	471838	4005835	0.45
3-5-8	477079	3987121	0.45
3-6-1	471460	4002210	0.45
3-6-10	466821	3999774	0.45
3-6-3	492921	4000099	0.45
3-6-4	478480	3979877	0.45
3-7-1	476279	4005979	0.45
3-7-2	475240	4028660	0.45
3-7-3	476800	3999946	0.45
3-7-7	467130	4001635	0.45
3-8-1	477835	4009235	0.45
3-8-10	469789	4008673	0.45
3-8-11	461836	4043420	0.45
3-8-12	464319	4045100	0.45
3-8-13	462600	4027520	0.45
3-8-14	470400	4019150	0.45
3-8-15	478040	3993119	0.45
3-8-16	471300	4020660	0.45
3-8-17	474239	3997054	0.45
3-8-18	468920	4016920	0.45
3-8-2	477349	3998979	0.45
3-8-20	467140	4001705	0.45
3-8-21	484650	3993792	0.45
3-8-3	474055	4007439	0.45
3-8-4	473320	4005532	0.45
3-8-5	474153	4003037	0.45
3-8-6	485609	4010604	0.45
3-8-7	479475	4006110	0.45
3-8-8	476089	4008524	0.45
3-8-9	470205	4009159	0.45
3-9-2	477698	4000990	0.45
3-9-3	468525	4000276	0.45
3-9-4	466388	4002725	0.45
3-9-5	469980	4000018	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
3-9-6	445583	3992924	0.45
4-2-1	465500	4003800	0.45
4-2-12	574155	3990214	0.45
4-2-14	583180	4022539	0.45
4-2-16	549305	4030937	0.45
4-2-17	576201	4012312	0.45
4-2-18	578951	3998824	0.45
4-2-4	598012	4018045	0.45
4-2-5	561590	3988804	0.45
4-3-1	555330	3993503	0.45
4-3-11	579385	3994237	0.45
4-3-12	587255	3985225	0.45
4-3-6	569281	4022934	0.45
4-3-7	579224	3984420	0.45
4-3-8	584305	3982440	0.45
4-3-9	562266	3998331	0.45
4-4-1	580029	4004296	0.45
4-4-13	588304	4033024	0.45
4-4-15	605190	4014424	0.45
4-4-2	578742	4000353	0.45
4-4-4	587255	3985225	0.45
4-4-5	566982	3985843	0.45
4-4-6	568281	3986512	0.45
4-4-7	579385	3990471	0.45
4-4-8	559337	4001759	0.45
4-4-9	561606	3998347	0.45
4-5-1	579868	3992708	0.45
4-5-12	562910	4000480	0.45
4-5-13	573704	4001479	0.45
4-5-14	580544	3985193	0.45
4-5-15	587255	3985225	0.45
4-5-2	588510	4009639	0.45
4-5-3	579627	4002445	0.45
4-5-5	570330	4021210	0.45
4-5-6	540880	3989080	0.45
4-5-7	549305	4031211	0.45
4-6-1	580834	4010170	0.45
4-6-12	582250	3987478	0.45
4-6-13	553994	4003063	0.45
4-6-2	570840	3986390	0.45
4-6-3	581960	3987478	0.45
4-6-4	568654	4025831	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
4-6-5	581075	3991904	0.45
4-6-6	581976	3988766	0.45
4-6-7	567430	4044500	0.45
4-6-8	555730	4042180	0.45
4-7-1	580010	3989223	0.45
4-8-7	589234	3986995	0.45
5-3-10	514040	3920850	0.45
5-3-4	533760	3901720	0.45
5-3-5	504150	3912500	0.45
5-3-6	529280	3907740	0.45
5-4-1	504900	3922040	0.45
5-4-10	508080	3921500	0.45
5-4-11	488250	3926500	0.45
5-4-6	497400	3891450	0.45
5-4-7	520500	3899660	0.45
5-4-8	526900	3898300	0.45
5-5-1	483160	3923700	0.45
5-5-3	531660	3907600	0.45
5-5-5	508180	3920040	0.45
5-5-6	539380	3910760	0.45
5-5-7	527340	3914180	0.45
5-6-6	513640	3898920	0.45
5-7-1	491360	3911280	0.45
5-7-2	515840	3908200	0.45
7-10-6	575972	3913143	0.45
7-10-7	571116	3906715	0.45
7-2-11	569734	3892497	0.45
7-2-5	561424	3923563	0.45
7-3-12	558620	3894049	0.45
7-3-14	590500	3909350	0.45
7-3-15	557699	3900628	0.45
7-3-17	544956	3928060	0.45
7-3-18	588645	3938939	0.45
7-3-19	541649	3918544	0.45
7-3-2	586553	3937652	0.45
7-4-1	585676	3930947	0.45
7-4-11	597457	3971837	0.45
7-4-12	588399	4032000	0.45
7-4-13	581229	3914178	0.45
7-4-14	588577	3923862	0.45
7-4-15	578232	3934401	0.45
7-4-16	565269	3928754	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
7-4-4	573323	3904322	0.45
7-4-5	557918	3893138	0.45
7-4-6	568359	3908614	0.45
7-4-8	587160	3906640	0.45
7-5-1	565044	3924153	0.45
7-5-10	573878	3951199	0.45
7-5-12	575323	3928269	0.45
7-5-3	560458	3920972	0.45
7-5-4	558899	3915149	0.45
7-5-5	556298	3918619	0.45
7-5-7	589467	3909482	0.45
7-5-9	581762	3979382	0.45
7-6-1	550341	3928527	0.45
7-6-10	567539	3901032	0.45
7-6-11	578809	3984399	0.45
7-6-12	587781	3918774	0.45
7-6-13	561125	3904660	0.45
7-6-14	552836	3893413	0.45
7-6-21	531736	3907678	0.45
7-6-4	560893	3928457	0.45
7-6-6	573864	3914228	0.45
7-6-7	588879	3918041	0.45
7-7-1	592100	3904500	0.45
7-7-12	547318	3926558	0.45
7-7-16	561385	3909220	0.45
7-7-4	577159	3927361	0.45
7-7-8	582700	3914676	0.45
7-8-1	555320	3918775	0.45
7-8-2	575663	3912418	0.45
8-6-11	576360	4037940	0.45
8-7-5	570720	4034860	0.45
8-7-6	569020	4025680	0.45
8-9-7	561641	4054002	0.45
02A-12	523150	4056190	0.45
02A-41	532179	4051378	0.45
03A-18	478741	3999567	0.45
03A-46	469895	3999805	0.45
03A-5	482072	4002882	0.45
03GS-77-2	478033	3999486	0.45
03GS-77-3	478033	3999406	0.45
05M-85	527399	3892073	0.45
07H-112	548402	3928598	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
01A-87	505491	4020406	0.45
03A-184A	458782	4017911	0.45
04M-75	585303	3982198	0.45
5-15	492066	3891685	0.45
05-16	504848	3894772	0.45
05K-309	492066	3905812	0.45
05K-314	492066	3912474	0.45
05K-317	488896	3901080	0.45
05M-104	480962	3892233	0.45
05M-30A	529255	3925190	0.45
05M-40	516800	3904585	0.45
07H-125	592209	3907125	0.45
07H-130	591807	3904791	0.45
07H-136	580838	3897406	0.45
07H-149	579593	3910327	0.45
07H-177	677380	3905671	0.45
07H-203	558254	3897528	0.45
07H-214	539313	3911109	0.45
07H-218	542713	3929259	0.45
07H-303	577822	3917167	0.45
07H-44	671425	3912511	0.45
07R-34	588441	3983647	0.45
17M-167	603831	3931489	0.45
17M-257	615347	3946918	0.45
5-12	538729	3892153	0.45
5-14	541947	3897947	0.45
5-17	503636	3916945	0.45
5-18	489797	3920247	0.45
5-2	483231	3918574	0.45
5-2-1	487318	3915516	0.45
5-2-2	492066	3934648	0.45
5-2-3	536637	3898269	0.45
5-2-7	487077	3896964	0.45
5-2-9	522744	3898104	0.45
5-3	497956	3908306	0.45
5-3-9	498407	3915516	0.45
5-4	534919	3902869	0.45
5-4-2	517685	3907225	0.45
5-4-3	527002	3907584	0.45
5-4-5	496830	3907469	0.45
5-5	528579	3907584	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
5-6-2	503636	3906661	0.45
5-6-3	496830	3891685	0.45
5-6-4	503255	3891714	0.45
5-6-5	535349	3896016	0.45
5-665	484824	3932974	0.45
5-666	525408	3922020	0.45
5-667	514289	3921934	0.45
5-7	537865	3902032	0.45
5-7-4	497506	3947136	0.45
5-8	497506	3948794	0.45
5-9-1	479384	3955746	0.45
5-973	504778	3920276	0.45
7-10	579593	3924039	0.45
7-1024	570459	3930732	0.45
7-1076	575931	3954807	0.45
7-11	562132	3924657	0.45
7-12	558736	3908290	0.45
7-14	556467	3907727	0.45
7-15	557593	3910785	0.45
7-17	551027	3927715	0.45
7-2-10	587478	3924039	0.45
7-2-12	576092	3955644	0.45
7-2-15	553715	3918832	0.45
7-2-6	587245	3930104	0.45
7-2-7	570258	3908766	0.45
7-2-8	563258	3906070	0.45
7-2-9	579311	3933435	0.45
7-20	588605	3920144	0.45
7-22	590053	3927917	0.45
7-23	576374	3928480	0.45
7-24	570741	3924039	0.45
7-25	561424	3923563	0.45
7-26	563677	3921793	0.45
7-27	563709	3901338	0.45
7-28	574483	3928961	0.45
7-3-10	564401	3927715	0.45
7-3-11	582811	3914318	0.45
7-3-13	553699	3920505	0.45
7-3-3	585587	3938151	0.45
7-3-4	577983	3924039	0.45
7-3-7	547857	3925221	0.45
7-3-8	574765	3921528	0.45

Table 7 (Continued)

DOMESTIC WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL/SPRING NUMBER	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)
7-31	565302	3909401	0.45
7-34	562132	3923000	0.45
7-356	566091	3922919	0.45
7-4-13	573799	3914318	0.45
7-474	561231	3914953	0.45
7-477	549209	3916337	0.45
7-5	586392	3939551	0.45
7-5-11	575931	3931778	0.45
7-5-6	576654	3895201	0.45
7-548	577983	3921528	0.45
7-549	581202	3915976	0.45
7-6-16	556001	3898333	0.45
7-6-19	582167	3908203	0.45
7-6-2	548308	3925317	0.45
7-6-23	571063	3911260	0.45
7-6-5	588323	3936493	0.45
7-668	558285	3924110	0.45
7-670	588605	3907929	0.45
7-671	581202	3912645	0.45
7-696	561231	3909401	0.45
7-7-17	574483	3933435	0.45
7-8	576213	3914045	0.45
7-8-4	554198	3928552	0.45
H-81	550400	3928278	0.45
H-87	557368	3922726	0.45
M-128	518602	3904440	0.45
HOPI*			1.12
		TOTAL	298.22

* REPRESENTS ALL CURRENT HOPI WATER HAULERS

NOTE: FUTURE ADDITIONAL CLAIM IS 33 ACRE-FEET RESULTING IN A TOTAL FUTURE CLAIM OF 331 ACRE-FEET.

Table 8

RECREATIONAL LAKE EVAPORATION
CURRENT OR RECENT
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

IMPOUNDMENT NAME	UTM COORDINATE EASTING	NORTHING	EVAP (Ac-Ft)
102-8	520536	4034146	83.2
103-16	525752	4037858	43.3
2A-403	532336	4040499	10.0
2A-405	540842	4051073	39.8
2A-407	541129	4042970	11.9
3-1A-129	440899	4018579	38.3
302-6	556334	4022288	10.4
304-8	538610	3993355	16.6
3A-161	455117	4019141	4.9
3A-165	440560	4020122	40.8
3A-166	437079	4017928	88.7
3A-173	441280	4015895	12.8
3A-1A-130	440343	4017504	23.0
3A-259	443410	3949225	52.6
3A-38	472296	3979262	45.4
3A-403	480366	3936017	28.6
3A-421	447335	3952880	59.2
3A-422	448390	3955490	122.4
3A-444	454333	3964302	36.2
3A-447	442314	3968193	22.2
3A-466	446294	3983295	39.5
3A-469	441878	3981906	30.3
3A-484	455232	3992951	18.7
3A-485	456713	3994145	15.1
3A-491	449337	3985650	18.1
3A-503	444479	3989407	15.8
3A-506	445004	3985244	18.7
3A-508	441550	3985421	49.3
3A-513	455797	4000958	11.2
3A-516	457796	4011116	15.1
3A-517	454943	4004876	44.1
3A-523	447507	4006119	19.7
3A-533	431768	3999018	10.5
3A-536	446872	4020666	43.3
3A-541	436754	4014417	21.6
3A-65	450098	3956469	4.9
3A-78	453192	3971579	167.8
5-A-135A	527744	3918171	31.6
5-A-177	482869	3928310	36.2
5-A-180	488093	3935326	23.0
5-A-323	523706	3919083	18.1
5-A-400	498609	3891482	32.9
513-7	588553	3941673	158.1

Table 8 (Continued)

RECREATIONAL LAKE EVAPORATION
CURRENT OR RECENT
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

IMPOUNDMENT NAME	UTM COORDINATE EASTING	NORTHING	EVAP (Ac-Ft)
ALKALI RESERVOIR	671255	3968520	2.4
CANYON DIABLO	500800	3904400	123.4
DAMON LAKE	674300	3952450	166.3
HAROLD CLARK	615350	3909700	25.3
HERMAN TSIPAI	596733	3969181	4.7
HIDDEN LAKE	658079	3934880	7.9
LOWER GREASEWOOD	605160	3937300	88.7
NELLIE ROAN	645942	3925324	11.9
STEAMBOAT RES	596840	3925000	105.3
TROUT LAKE	669660	3969205	31.5
WIDE RUINS RES	635860	3918815	12.8
WILLIAM LYNCH	625900	3915350	5.9
WINDOW ROCK-1	667150	3950100	20.9
ANTELOPE LAKE	650715	3930220	4.7
MEADOW WASH RES	669265	3964100	4.7
KEAMS LAKE	574153	3962385	6.6
LAKE MAHO	574615	3962533	9.9
TWIN DAM NO. 1	577154	3964846	9.9
TWIN DAM NO. 2	577308	3964769	39.5
		TOTAL	2,316.2

Table 9

FUTURE RECREATIONAL LAKE EVAPORATION
SURFACE WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

SITE	LOCATION (UTM) NORTHING	EASTING	ANNUAL NET EVAP. (Ac-Ft)
BUELL PARK	3975000	673000	61
COAL MINE CANYON	3992000	500500	53
BAT CANYON SITE NO. 4	3992000	506000	53
BAT CANYON	3987500	513000	49
WILLOW SPRING	3994000	522000	49
RUIN RESERVOIR	3944000	647500	98
WINDOW ROCK LAKE	3951500	677000	15
		TOTAL	378

ONETIME FILLING DEMAND = 1,082 ACRE-FEET

Table 10

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)
01A-115	462628	4027487	1.44	0.00
01A-160	488493	4038562	1.44	0.00
01A-23	478033	4039820	1.44	0.00
01A-25	471994	4033152	1.44	0.00
01A-48	501403	4035888	1.44	0.00
01A-71	503801	4015658	1.44	0.00
01K-202	475712	4036451	1.44	0.00
01K-203	462886	4036258	1.44	0.00
01K-204	485242	4028536	1.44	0.00
01K-214	505121	4028324	1.44	0.00
01K-215	461879	4043373	1.44	0.00
01K-216	498761	4014100	1.44	0.00
01K-222	491358	4030371	1.44	0.00
01K-224	480849	4033332	1.44	0.00
01K-225	514197	4029869	1.44	0.00
01K-226	497988	4023274	1.44	0.00
01K-232	455204	4043154	1.44	0.00
01K-233	456416	4034343	1.44	0.00
01K-241	489861	4025205	1.44	0.00
01T-505	459497	4052401	1.44	0.00
01T-516	486208	4032286	1.44	0.00
01T-517	496862	4038643	1.44	0.00
01T-518	464406	4045063	1.44	0.00
01T-520	492790	4019524	1.44	0.00
01T-522	495687	4027780	1.44	0.00
01T-523	505676	4041925	1.44	0.00
02A-13	522108	4054703	1.44	0.00
02A-43	530473	4045810	1.44	0.00
02C-14	535542	4060535	1.44	0.00
02K-219	505346	4035630	1.44	0.00
02K-301	538149	4043428	1.44	0.00
02K-302	533482	4065299	1.44	0.00
02K-303	509491	4047622	1.44	0.00
02K-318	537876	4059183	1.44	0.00
02K-319	513755	4041184	1.44	0.00
02K-320	537554	4048948	1.44	0.00
02K-323	513965	4050148	1.44	0.00
02K-324	537425	4052537	1.44	0.00
02K-456	524035	4048385	1.44	0.00
02P-512	544458	4046003	1.44	0.00
02T-304	524824	4039887	1.44	0.00
02T-502	543267	4047467	1.44	0.00

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
02T-515	523714	4050155	1.44	0.00	1.44
02T-518A	524501	4036908	1.44	0.00	1.44
03A-149	494432	3977680	1.44	0.00	1.44
03A-151	492227	3967831	1.44	0.00	1.44
03A-202	465308	4005550	1.44	0.00	1.44
03A-27	486932	3982733	1.44	0.00	1.44
03A-28	486771	3973576	1.44	0.00	1.44
03K-252	478113	3999567	1.44	0.00	1.44
03K-312	495655	3985051	1.44	0.00	1.44
03K-313	488284	4020473	1.44	0.00	1.44
03K-316	475197	4025153	1.44	0.00	1.44
03K-318-2	477743	3998939	1.44	0.00	1.44
03K-319	459395	3967200	0.00	0.00	0.00
03K-323	497634	4005312	1.44	0.00	1.44
03K-324	490408	4013505	1.44	0.00	1.44
03K-325	481348	3987964	1.44	0.00	1.44
03K-326	482748	3980898	1.44	0.00	1.44
03K-327	498358	3974542	1.44	0.00	1.44
03K-328	496974	3966205	1.44	0.00	1.44
03K-329	492517	3989975	1.44	0.00	1.44
03K-331	463306	3958059	1.44	0.00	1.44
03K-336	475245	4028662	1.44	0.00	1.44
03K-340	447657	4014570	0.00	0.00	0.00
03P-351	478467	3999406	1.44	0.00	1.44
03T-222	477121	3997793	1.44	0.00	1.44
03T-333	477839	3997764	1.44	0.00	1.44
03T-341	455227	3958187	1.44	0.00	1.44
03T-501	460184	3967924	1.44	0.00	1.44
03T-503	478918	3998440	0.00	0.00	0.00
03T-504	488606	3969360	1.44	0.00	1.44
03T-507	479433	3997668	1.44	0.00	1.44
03T-510	477378	4001366	1.44	0.00	1.44
03T-511	477426	4000175	1.44	0.00	1.44
03T-518	497312	4010591	1.44	0.00	1.44
03T-520	471603	3945588	0.00	0.00	0.00
03T-521	465211	3991437	1.44	0.00	1.44
03T-522	464069	3986480	0.00	0.00	0.00
03T-523	464416	3977194	1.44	0.00	1.44
03T-524	463789	3972350	0.00	0.00	0.00
03T-525	447818	4018883	0.00	0.00	0.00
03T-527	459492	3967602	1.44	0.00	1.44
03T-528	482844	4007034	1.44	0.00	1.44
			50.4	0	

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
03T-529	470265	4009831	1.44	0.00	1.44
03T-535	452010	3968070	0.00	0.00	0.00
03T-538C	455420	3963724	1.44	0.00	1.44
03T-539	467699	3965816	1.44	0.00	1.44
03T-540	494673	3974847	1.44	0.00	1.44
03T-541	494963	3997587	1.44	0.00	1.44
03T-542	462572	3983857	1.44	0.00	1.44
03T-545	474175	4003008	1.44	0.00	1.44
03T-547	495317	3960299	1.44	0.00	1.44
03T-554	466042	3956884	1.44	0.00	1.44
04K-300B	569971	3995541	1.44	0.00	1.44
04K-377	541832	3999796	1.44	0.00	1.44
04K-379	583875	4001737	1.44	0.00	1.44
04K-381	579723	4006677	1.44	0.00	1.44
04K-389	569474	4035358	1.44	0.00	1.44
04K-407	576572	4015547	1.44	0.00	1.44
04M-101	565678	3986454	1.44	0.00	1.44
04M-128A	544117	3987822	1.44	0.00	1.44
04M-128B	544037	3987886	1.44	0.00	1.44
04M-201	569488	3995396	1.44	0.00	1.44
04M-4	568587	4008110	1.44	0.00	1.44
04M-43	571789	3996008	1.44	0.00	1.44
04M-95	569005	3997005	1.44	0.00	1.44
04R-21	591789	3999969	1.44	0.00	1.44
04R-26	586547	3989828	1.44	0.00	1.44
04R-27	578355	3991244	1.44	0.00	1.44
04T-378	536264	3989898	1.44	0.00	1.44
04T-378A	536264	3989914	1.44	0.00	1.44
04T-378B	535910	3990429	1.44	0.00	1.44
04T-385	571591	3983904	1.44	0.00	1.44
04T-386	599514	4009963	1.44	0.00	1.44
04T-392	593495	3991150	1.44	0.00	1.44
04T-394	543200	3994340	1.44	0.00	1.44
04T-395	551645	4006410	1.44	0.00	1.44
04T-396	558382	4016663	1.44	0.00	1.44
04T-399	590561	4024836	1.44	0.00	1.44
04T-402	559010	4035234	1.44	0.00	1.44
04T-403	554729	4029908	1.44	0.00	1.44
04T-404	562373	4033223	1.44	0.00	1.44
04T-500	595518	4022487	1.44	0.00	1.44
04T-504	584039	4012731	1.44	0.00	1.44
04T-509	548426	3998669	1.44	0.00	1.44

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
04T-510	562582	4016647	1.44	0.00	1.44
04T-512	562566	4025466	1.44	0.00	1.44
04T-514	595341	4016629	1.44	0.00	1.44
04T-517	591848	4026285	0.00	0.00	0.00
04T-518	591869	3994980	1.44	0.00	1.44
04T-524	576684	4028888	1.44	0.00	1.44
05K-305	515802	3908335	1.44	0.00	1.44
05K-307	517598	3933937	1.44	0.00	1.44
05K-309	493981	3901354	1.44	0.00	1.44
05K-310	472569	3941404	0.00	0.00	0.00
05K-312	499195	3913327	0.00	0.00	0.00
05K-312-A	499839	3913327	0.00	0.00	0.00
05K-313	513571	3898892	1.44	0.00	1.44
05K-314	491438	3911315	1.44	0.00	1.44
05K-315A	486063	3905393	1.44	0.00	1.44
05K-316	486836	3896208	1.44	0.00	1.44
05K-317	489571	3899072	1.44	0.00	1.44
05K-318	487495	3914309	1.44	0.00	1.44
05M-103	481621	3901128	1.44	0.00	1.44
05M-104	479561	3912233	1.44	0.00	1.44
05M-104-A	479561	3912168	1.44	0.00	1.44
05M-108	490827	3906246	1.44	0.00	1.44
05M-122	484502	3893810	1.44	0.00	1.44
05M-122A	484583	3893633	1.44	0.00	1.44
05M-86	505186	3894483	1.44	0.00	1.44
05M-88	505379	3891376	1.44	0.00	1.44
05M-94	496508	3895500	1.44	0.00	1.44
05T-308	523863	3902418	1.44	0.00	1.44
05T-319	516194	3892954	1.44	0.00	1.44
05T-320	497312	3891492	1.44	0.00	1.44
05T-324	514000	3922047	1.44	0.00	1.44
05T-325	509728	3929495	0.00	0.00	0.00
05T-506	502627	3900003	1.44	0.00	1.44
05T-507	497795	3900215	1.44	0.00	1.44
05T-509	534002	3907375	1.44	0.00	1.44
05T-512	520582	3922690	0.00	0.00	0.00
05T-513	524588	3923742	0.00	0.00	0.00
05T-514	540306	3893071	1.44	0.00	1.44
05T-515A	516719	3913549	0.00	0.00	0.00
05T-516	523622	3905556	1.44	0.00	1.44
05T-518	500047	3907031	1.44	0.00	1.44
05T-523	533391	3914408	1.44	0.00	1.44

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
05T-524	533503	3914472	1.44	0.00	1.44
05T-524A	533439	3914424	0.00	0.00	0.00
05T-525	485757	3917994	1.44	0.00	1.44
05T-526	502144	3899793	1.44	0.00	1.44
05T-527A	522642	3907080	0.00	0.00	0.00
05T-529	489700	3920730	1.44	0.00	1.44
05T-531	508582	3894483	1.44	0.00	1.44
05T-532	479400	3891637	1.44	0.00	1.44
05T-533	492758	3892120	1.44	0.00	1.44
05T-537	485677	3927489	1.44	0.00	1.44
07H-1	596185	3958431	1.44	0.00	1.44
07H-121	595991	3908734	1.44	0.00	1.44
07H-121C	595750	3908734	1.44	0.00	1.44
07H-15	579150	3950736	1.44	0.00	1.44
07H-247	584862	3894509	0.00	0.00	0.00
07H-45	573533	3935447	1.44	0.00	1.44
07K-320	543932	3907729	1.44	0.00	1.44
07K-320-A	543932	3907729	0.00	0.00	0.00
07K-320B	544061	3907809	1.44	0.00	1.44
07K-352	557819	3923209	1.44	0.00	1.44
07K-361	579799	3977789	1.44	0.00	1.44
07K-362	588194	3941224	1.44	0.00	1.44
07K-365	592935	3953779	1.44	0.00	1.44
07K-366	558446	3926621	0.00	0.00	0.00
07K-367	572447	3917006	1.44	0.00	1.44
07K-367A	572511	3917006	1.44	0.00	1.44
07K-369	566829	3935921	1.44	0.00	1.44
07P-385	584565	3918744	1.44	0.00	1.44
07P-533	560378	3910366	1.44	0.00	1.44
07T-353	579445	3979044	1.44	0.00	1.44
07T-377	589825	3982906	1.44	0.00	1.44
07T-378	573066	3953987	1.44	0.00	1.44
07T-505	593707	3969986	1.44	0.00	1.44
07T-507	589101	3970772	1.44	0.00	1.44
07T-511	581129	3929830	1.44	0.00	1.44
07T-512	586231	3929685	1.44	0.00	1.44
07T-513	578313	3930587	1.44	0.00	1.44
07T-515	581138	3927193	1.44	0.00	1.44
07T-517	585547	3916362	1.44	0.00	1.44
07T-518	569695	3927064	0.00	0.00	0.00
07T-521	587148	3936236	1.44	0.00	1.44
07T-523	569132	3920868	0.00	0.00	0.00

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
07T-524	565528	3927425	0.00	0.00	0.00
07T-525	575325	3959523	1.44	0.00	1.44
07T-526	561585	3916482	1.44	0.00	1.44
07T-529	554504	3927747	0.00	0.00	0.00
07T-537	577967	3917102	1.44	0.00	1.44
07T-538	555067	3928278	1.44	0.00	1.44
07T-539	557400	3923483	1.44	0.00	1.44
07T-541	555566	3925011	1.44	0.00	1.44
07T-542	548629	3928504	1.44	0.00	1.44
07T-543	592033	3958833	1.44	0.00	1.44
07T-552	593353	3967572	1.44	0.00	1.44
07T-553A	568649	3928738	1.44	0.00	1.44
07T-554	587597	3899015	1.44	0.00	1.44
07T-555	592548	3956709	1.44	0.00	1.44
08T-504	565672	4037890	1.44	0.00	1.44
08T-506	553031	4041932	1.44	0.00	1.44
17H-146	600417	3912436	1.44	0.00	1.44
17K-2	634659	3949799	1.44	0.00	1.44
17K-306	600819	3918761	1.44	0.00	1.44
17K-338	611588	3938297	1.44	0.00	1.44
17K-340	602509	3927869	1.44	0.00	1.44
17K-344	636363	3961652	1.44	0.00	1.44
17K-350	611489	3901331	1.44	0.00	1.44
17K-352	601829	3898501	1.44	0.00	1.44
17K-355	628705	3929569	1.44	0.00	1.44
17K-356	644305	3908330	1.44	0.00	1.44
17K-362	651037	3939858	1.44	0.00	1.44
17K-367	613287	3940964	1.44	0.00	1.44
17K-372	600980	3924506	1.44	0.00	1.44
17K-374	649701	3952845	1.44	0.00	1.44
17K-375	650587	3947776	1.44	0.00	1.44
17K-378	644906	3939697	1.44	0.00	1.44
17K-379	652614	3931827	1.44	0.00	1.44
17M-111	618892	3924387	1.44	0.00	1.44
17M-117	626118	3915407	1.44	0.00	1.44
17M-118	625104	3918771	1.44	0.00	1.44
17M-124	628484	3911303	1.44	0.00	1.44
17M-125	626553	3910096	1.44	0.00	1.44
17M-128	601781	3898485	1.44	0.00	1.44
17M-133	649343	3910438	1.44	0.00	1.44
17M-148	649520	3920368	1.44	0.00	1.44
17M-165	604812	3932600	1.44	0.00	1.44

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
17M-187	613775	3925594	1.44	0.00	1.44
17M-203	597442	3934499	1.44	0.00	1.44
17M-207	600226	3948371	1.44	0.00	1.44
17M-239	601512	3962921	1.44	0.00	1.44
17M-240	601594	3956257	1.44	0.00	1.44
17M-245	631461	3914361	1.44	0.00	1.44
17M-246	607468	3948194	1.44	0.00	1.44
17M-262	633232	3915005	1.44	0.00	1.44
17M-34	644793	3953811	1.44	0.00	1.44
17M-44	635446	3957805	0.00	0.00	0.00
17M-44A	634853	3954756	1.44	0.00	1.44
17M-45	635526	3959575	1.44	0.00	1.44
04T-503	569330	4013712	1.44	0.00	1.44
17M-91	618984	3945840	1.44	0.00	1.44
17M-91A	618984	3945840	1.44	0.00	1.44
17M-99	621415	3951151	1.44	0.00	1.44
17T-306A	600819	3918873	1.44	0.00	1.44
17T-337	620518	3928153	1.44	0.00	1.44
17T-358	628093	3955174	1.44	0.00	1.44
17T-361	655716	3920159	1.44	0.00	1.44
17T-376	641011	3949224	1.44	0.00	1.44
17T-378	644809	3931425	0.00	0.00	0.00
17T-382	636006	3943109	1.44	0.00	1.44
17T-386	641333	3944235	1.44	0.00	1.44
17T-388	638898	3902858	1.44	0.00	1.44
17T-501	625229	3946806	1.44	0.00	1.44
17T-516	599259	3967846	1.44	0.00	1.44
17T-517	604265	3941548	1.44	0.00	1.44
17T-518	593756	3940985	1.44	0.00	1.44
17T-519	595317	3947341	1.44	0.00	1.44
17T-523	622831	3938533	1.44	0.00	1.44
17T-524	614704	3931646	1.44	0.00	1.44
17T-527	632749	3919270	1.44	0.00	1.44
17T-528	603782	3956724	1.44	0.00	1.44
17T-530	634370	3932708	1.44	0.00	1.44
17T-532	632519	3939644	1.44	0.00	1.44
17T-535	622982	3898269	1.44	0.00	1.44
17T-537A	623382	3906958	1.44	0.00	1.44
17T-538	631956	3942686	1.44	0.00	1.44
17T-542	619371	3946339	1.44	0.00	1.44
17T-545	613738	3956413	1.44	0.00	1.44
17T-546	596347	3955195	1.44	0.00	1.44

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
17T-552	622690	3920123	1.44	0.00	1.44
17T-554	623334	3906636	1.44	0.00	1.44
17T-555	616361	3950813	1.44	0.00	1.44
17T-559	596570	3925133	1.44	0.00	1.44
17T-561	595735	3958029	1.44	0.00	1.44
17T-563	635565	3920316	1.44	0.00	1.44
17T-569	632668	3920879	1.44	0.00	1.44
17T-572	663373	3969665	1.44	0.00	1.44
17T-573	638838	3953248	1.44	0.00	1.44
02K-321	530779	4060052	1.44	0.00	1.44
17T-588	618325	3945711	1.44	0.00	1.44
18A-111	667241	3905510	1.44	0.00	1.44
18A-111B	667466	3905301	1.44	0.00	1.44
18A-112	668123	3901774	1.44	0.00	1.44
18A-116	656109	3900105	1.44	0.00	1.44
18A-187	675899	3914136	1.44	0.00	1.44
18A-208	653543	3908797	1.44	0.00	1.44
18A-210	657116	3908861	1.44	0.00	1.44
18GS-124-1	669735	3923132	1.44	0.00	1.44
18K-305	659934	3904287	1.44	0.00	1.44
18K-307	656125	3900105	1.44	0.00	1.44
18K-324	661689	3905301	1.44	0.00	1.44
18K-331	673353	3895305	1.44	0.00	1.44
18K-332	657909	3932809	1.44	0.00	1.44
18K-333	656058	3938345	1.44	0.00	1.44
18K-335	648345	3903003	1.44	0.00	1.44
18K-360	674562	3946761	1.44	0.00	1.44
18P-586	675931	3912511	1.44	0.00	1.44
18T-328	675465	3928765	1.44	0.00	1.44
18T-334	661045	3907522	1.44	0.00	1.44
18T-337	675282	3985436	1.44	0.00	1.44
18T-341	652617	3900926	1.44	0.00	1.44
18T-342A	674401	3949014	1.44	0.00	1.44
18T-346	660625	3942608	1.44	0.00	1.44
18T-347A	672455	3908085	1.44	0.00	1.44
18T-348	675125	3938070	1.44	0.00	1.44
18T-354	672019	3936445	1.44	0.00	1.44
18T-355	672099	3947356	1.44	0.00	1.44
18T-358	665583	3913267	1.44	0.00	1.44
18T-359	674723	3947082	1.44	0.00	1.44
18T-362	665260	3942496	1.44	0.00	1.44
18T-500	675447	3951428	1.44	0.00	1.44

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

The figures on these 2 pages are exactly the same except for the UTM coordinates for the last 18.

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING			
18T-501	675125	3951428			
18T-529	672228	3950060			
18T-530	674773	3912318			
18T-533	668464	3929698			
17T-547	606710	3956789			
18T-539	667074	3963388			
17T-548	600336	3912758			
18T-541	675121	3961135			
18T-545	675829	3975008			
18T-562	670717	3925900			
18T-568	676430	3909646			1.44
18T-575	655539	3919740	...	0.00	1.44
18T-576	671954	3938505	1.44	0.00	1.44
18T-579	657920	3915218	1.44	0.00	1.44
GISHEY	606774	3915172	0.00	0.00	0.00
04T-400	570679	3997279	1.44	0.00	1.44
PBDY S SHT	524840	4040080	1.44	0.00	1.44
STMBOAT 1	603605	3956579	1.44	0.00	1.44
TOM NEZ	672872	3948177	1.44	0.00	1.44
WHT CN PMZ	584316	3940307	0.00	0.00	0.00
04k-382	584071	4022290	1.44	0.00	1.44
04t-506	540770	3989093	1.44	0.00	1.44
07h-52	581676	3989093	1.44	0.00	1.44
17t-540	593869	3932455	1.44	0.00	1.44
BLUE POINT	SEE MAP NO. 4		2.40	0.00	2.40
BURRO SPRINGS	SEE MAP NO. 4		4.30	1.20	5.50
CHIMAPOVI	SEE MAP NO. 4		0.20	1.60	1.80
EAST DINNEBITO	SEE MAP NO. 4		0.80	0.70	1.50
FIVE HOUSES	SEE MAP NO. 4		2.70	1.60	4.30
HARD ROCK	SEE MAP NO. 4		3.50	5.10	8.60
NORTH ORAIBI	SEE MAP NO. 4		3.10	0.00	3.10
POLACCA WASH	SEE MAP NO. 4		2.60	7.00	9.60
SHONTO	SEE MAP NO. 4		3.00	2.70	5.70
SOUTH ORAIBI	SEE MAP NO. 4		0.50	4.30	4.80
TALAHOGAN	SEE MAP NO. 4		6.30	4.90	11.20
TOREVA	SEE MAP NO. 4		0.40	1.50	1.90
TOREVA MESA	SEE MAP NO. 4		3.40	0.00	3.40
UPPER POLACCA	SEE MAP NO. 4		2.00	5.90	7.90
WEST DINNEBITO	SEE MAP NO. 4		1.10	0.50	1.60
251	SEE MAP NO. 4		2.30	2.30	4.60
252	SEE MAP NO. 4		0.40	0.60	1.00
253	SEE MAP NO. 4		0.20	0.30	0.50

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
18T-501	675125	3951428	1.44	0.00	1.44
18T-529	672228	3950060	1.44	0.00	1.44
18T-530	674773	3912318	1.44	0.00	1.44
18T-533	668464	3929698	1.44	0.00	1.44
17T-547	606710	3956789	1.44	0.00	1.44
18T-539	667074	3963388	1.44	0.00	1.44
17T-548	600336	3912758	1.44	0.00	1.44
18T-541	675121	3961135	1.44	0.00	1.44
18T-545	675829	3975008	1.44	0.00	1.44
18T-562	670717	3925900	1.44	0.00	1.44
18T-568	676430	3909646	1.44	0.00	1.44
18T-575	655539	3919740	1.44	0.00	1.44
18T-576	671954	3938505	1.44	0.00	1.44
18T-579	657920	3915218	1.44	0.00	1.44
GISHEY	606774	3915172	0.00	0.00	0.00
04T-400	570679	3997279	1.44	0.00	1.44
PBDY S SHT	524840	4040080	1.44	0.00	1.44
STMBOAT 1	603605	3956579	1.44	0.00	1.44
TOM NEZ	672872	3948177	1.44	0.00	1.44
WHT CN PMZ	584316	3940307	0.00	0.00	0.00
04k-382	584071	4022290	1.44	0.00	1.44
04t-506	540770	3989093	1.44	0.00	1.44
07h-52	581676	3989093	1.44	0.00	1.44
17t-540	593869	3932455	1.44	0.00	1.44
BLUE POINT	SEE MAP NO. 3		2.40	0.00	2.40
BURRO SPRINGS	SEE MAP NO. 3		4.30	1.20	5.50
CHIMAPOVI	SEE MAP NO. 3		0.20	1.60	1.80
EAST DINNEBITO	SEE MAP NO. 3		0.80	0.70	1.50
FIVE HOUSES	SEE MAP NO. 3		2.70	1.60	4.30
HARD ROCK	SEE MAP NO. 3		3.50	5.10	8.60
NORTH ORAIBI	SEE MAP NO. 3		3.10	0.00	3.10
POLACCA WASH	SEE MAP NO. 3		2.60	7.00	9.60
SHONTO	SEE MAP NO. 3		3.00	2.70	5.70
SOUTH ORAIBI	SEE MAP NO. 3		0.50	4.30	4.80
TALAHOGAN	SEE MAP NO. 3		6.30	4.90	11.20
TOREVA	SEE MAP NO. 3		0.40	1.50	1.90
TOREVA MESA	SEE MAP NO. 3		3.40	0.00	3.40
UPPER POLACCA	SEE MAP NO. 3		2.00	5.90	7.90
WEST DINNEBITO	SEE MAP NO. 3		1.10	0.50	1.60
251	SEE MAP NO. 3		2.30	2.30	4.60
252	SEE MAP NO. 3		0.40	0.60	1.00
253	SEE MAP NO. 3		0.20	0.30	0.50

Table 10 (Continued)

STOCKWATER USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

WELL NO./ RANGE UNIT	UTM COORDINATES EASTING NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
254	SEE MAP NO. 3	0.30	1.60	1.90
255	SEE MAP NO. 3	4.50	5.80	10.30
256	SEE MAP NO. 3	2.90	5.40	8.30
257	SEE MAP NO. 3	4.70	6.10	10.80
258	SEE MAP NO. 3	0.60	2.10	2.70
259	SEE MAP NO. 3	3.10	4.30	7.40
260	SEE MAP NO. 3	1.80	0.70	2.50
261	SEE MAP NO. 3	0.80	1.60	2.40
262	SEE MAP NO. 3	0.40	1.30	1.70
263	SEE MAP NO. 3	3.00	4.30	7.30
351	SEE MAP NO. 3	2.80	4.30	7.10
451	SEE MAP NO. 3	0.40	1.30	1.70
551	SEE MAP NO. 3	6.60	7.30	13.90
552	SEE MAP NO. 3	1.90	3.50	5.40
553	SEE MAP NO. 3	0.90	2.10	3.00
554	SEE MAP NO. 3	0.50	1.80	2.30
555	SEE MAP NO. 3	0.50	1.30	1.80
556	SEE MAP NO. 3	0.40	0.80	1.20
557	SEE MAP NO. 3	0.20	0.90	1.10
558	SEE MAP NO. 3	0.60	2.00	2.60
559	SEE MAP NO. 3	1.80	3.70	5.50
560	SEE MAP NO. 3	0.00	1.00	1.00
561	SEE MAP NO. 3	0.10	0.30	0.40
562	SEE MAP NO. 3	2.90	3.00	5.90
563	SEE MAP NO. 3	2.30	1.20	3.50
564	SEE MAP NO. 3	0.00	0.60	0.60
565	SEE MAP NO. 3	2.40	2.40	4.80
566	SEE MAP NO. 3	0.10	0.00	0.10
567	SEE MAP NO. 3	1.80	0.80	2.60
568	SEE MAP NO. 3	3.00	1.40	4.40
569	SEE MAP NO. 3	1.50	0.00	1.50
570	SEE MAP NO. 3	0.60	1.60	2.20
571	SEE MAP NO. 3	1.20	1.30	2.50
572	SEE MAP NO. 3	0.80	1.30	2.10
573	SEE MAP NO. 3	0.50	1.00	1.50
	TOTALS	571.74	118.30	690.04

Table 10A

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
BLUE POINT	6-3BP1	MAP NO. 3	0.008	0.000	0.008
BLUE POINT	6-3BP1	MAP NO. 3	0.006	0.000	0.006
BLUE POINT	6-3BP2	MAP NO. 3	0.000	0.000	0.000
BLUE POINT	6-3BP2	MAP NO. 3	0.126	0.000	0.126
BLUE POINT	6-3BP2	MAP NO. 3	0.071	0.000	0.071
BLUE POINT	6-3BP3	MAP NO. 3	0.008	0.000	0.008
BLUE POINT	6-3BP3	MAP NO. 3	0.006	0.000	0.006
BURRO SPRINGS	6-2B2	MAP NO. 3	0.790	0.000	0.790
BURRO SPRINGS	6-2B2	MAP NO. 3	0.284	0.000	0.284
BURRO SPRINGS	6-2B2	MAP NO. 3	0.032	0.000	0.032
BURRO SPRINGS	6-2B2	MAP NO. 3	0.006	0.000	0.006
BURRO SPRINGS	6-2B2	MAP NO. 3	0.010	0.000	0.010
BURRO SPRINGS	6-2B3	MAP NO. 3	0.126	0.000	0.126
BURRO SPRINGS	6-2B3	MAP NO. 3	0.020	0.000	0.020
BURRO SPRINGS	6-2B3	MAP NO. 3	0.005	0.000	0.005
BURRO SPRINGS	6-2B3	MAP NO. 3	0.005	0.000	0.005
BURRO SPRINGS	6-2B6	MAP NO. 3	0.000	0.000	0.000
BURRO SPRINGS	6-2B6	MAP NO. 3	0.790	0.000	0.790
BURRO SPRINGS	6-2B6	MAP NO. 3	0.006	0.000	0.006
BURRO SPRINGS	6-2C1	MAP NO. 3	0.020	0.000	0.020
BURRO SPRINGS	SPRING	MAP NO. 3	0.020	0.000	0.020
CHIMOPOVI	6-2B1	MAP NO. 3	0.071	0.000	0.071
CHIMOPOVI	6-2B1	MAP NO. 3	0.071	0.000	0.071
CHIMOPOVI	6-2PW2	MAP NO. 3	0.071	0.000	0.071
EAST DINNEBITO	6-3ED1	MAP NO. 3	0.011	0.000	0.011
EAST DINNEBITO	6-3ED1	MAP NO. 3	1.006	0.000	1.006
EAST DINNEBITO	6-3ED1	MAP NO. 3	0.045	0.000	0.045
EAST DINNEBITO	6-3ED2	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F2	MAP NO. 3	0.284	0.000	0.284
FIVE HOUSES	6-1F2	MAP NO. 3	0.015	0.000	0.015
FIVE HOUSES	6-1F2	MAP NO. 3	0.004	0.000	0.004
FIVE HOUSES	6-1F3	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F4	MAP NO. 3	0.284	0.000	0.284
FIVE HOUSES	6-1F4	MAP NO. 3	0.071	0.000	0.071
FIVE HOUSES	6-1F4	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F5	MAP NO. 3	0.020	0.000	0.020
FIVE HOUSES	6-1F5	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F6	MAP NO. 3	0.790	0.000	0.790
FIVE HOUSES	6-1F6	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F7	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F8	MAP NO. 3	0.000	0.000	0.000
FIVE HOUSES	6-1F8	MAP NO. 3	0.000	0.000	0.000

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
FIVE HOUSES	6-1F8	MAP NO. 3	2.262	0.000	2.262
FIVE HOUSES	6-1F8	MAP NO. 3	0.008	0.000	0.008
FIVE HOUSES	6-1F8	MAP NO. 3	0.006	0.000	0.006
FIVE HOUSES	6-1F9	MAP NO. 3	0.000	0.000	0.000
FIVE HOUSES	6-1F9	MAP NO. 3	0.005	0.000	0.005
FIVE HOUSES	6-1F9	MAP NO. 3	0.007	0.000	0.007
FIVE HOUSES	6-1F9	MAP NO. 3	0.197	0.000	0.197
FIVE HOUSES	FH-W1	MAP NO. 3	0.003	0.000	0.003
FIVE HOUSES	FH-W2	MAP NO. 3	0.006	0.000	0.006
HARDROCK	6-1H1	MAP NO. 3	0.005	0.000	0.005
HARDROCK	6-1H2	MAP NO. 3	0.000	0.000	0.000
HARDROCK	6-1H2	MAP NO. 3	0.167	0.000	0.167
HARDROCK	6-1H2	MAP NO. 3	0.427	0.000	0.427
HARDROCK	6-1H2	MAP NO. 3	0.006	0.000	0.006
HARDROCK	6-1H2	MAP NO. 3	0.006	0.000	0.006
HARDROCK	6-1H3	MAP NO. 3	0.004	0.000	0.004
HARDROCK	6-1H3	MAP NO. 3	0.167	0.000	0.167
HARDROCK	6-1H3	MAP NO. 3	0.060	0.000	0.060
HARDROCK	6-1H3	MAP NO. 3	0.006	0.000	0.006
HARDROCK	6-1H4	MAP NO. 3	0.167	0.000	0.167
HARDROCK	6-1H4	MAP NO. 3	0.027	0.000	0.027
HARDROCK	6-1H4	MAP NO. 3	0.005	0.000	0.005
HARDROCK	6-1H6	MAP NO. 3	0.000	0.000	0.000
HARDROCK	6-1H6	MAP NO. 3	2.752	0.000	2.752
HARDROCK	6-1H6	MAP NO. 3	0.005	0.000	0.005
HARDROCK	6-1H7	MAP NO. 3	0.060	0.000	0.060
HARDROCK	6-1H7	MAP NO. 3	0.005	0.000	0.005
HARDROCK	HA-W1	MAP NO. 3	0.005	0.000	0.005
NORTH ORAIBI	6-3NO1	MAP NO. 3	0.197	0.000	0.197
NORTH ORAIBI	6-3NO1	MAP NO. 3	0.020	0.000	0.020
NORTH ORAIBI	6-3NO1	MAP NO. 3	0.009	0.000	0.009
NORTH ORAIBI	6-3NO1	MAP NO. 3	0.008	0.000	0.008
NORTH ORAIBI	6-3NO2	MAP NO. 3	0.493	0.000	0.493
NORTH ORAIBI	6-3NO2	MAP NO. 3	0.493	0.000	0.493
NORTH ORAIBI	6-3NO2	MAP NO. 3	0.126	0.000	0.126
NORTH ORAIBI	6-3NO2	MAP NO. 3	0.006	0.000	0.006
NORTH ORAIBI	6-3NO2	MAP NO. 3	0.006	0.000	0.006
NORTH ORAIBI	SP	MAP NO. 3	0.032	0.000	0.032
NORTH ORAIBI	SP	MAP NO. 3	0.008	0.000	0.008
NORTH ORAIBI	SP	MAP NO. 3	0.006	0.000	0.006
POLACCA WASH	6-2BB1	MAP NO. 3	0.790	0.000	0.790
POLACCA WASH	6-2BB1	MAP NO. 3	0.008	0.000	0.008

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
POLACCA WASH	6-2BB1	MAP NO. 3	0.006	0.000	0.006
POLACCA WASH	6-2BB1	MAP NO. 3	0.006	0.000	0.006
POLACCA WASH	6-2BB2	MAP NO. 3	0.790	0.000	0.790
POLACCA WASH	6-2BB2	MAP NO. 3	0.008	0.000	0.008
POLACCA WASH	6-2BB2	MAP NO. 3	0.006	0.000	0.006
POLACCA WASH	6-2PW3	MAP NO. 3	0.790	0.000	0.790
POLACCA WASH	6-2PW3	MAP NO. 3	0.387	0.000	0.387
POLACCA WASH	6-2PW3	MAP NO. 3	0.020	0.000	0.020
POLACCA WASH	6-2PW3	MAP NO. 3	0.006	0.000	0.006
POLACCA WASH	6-2PW5	MAP NO. 3	0.790	0.000	0.790
POLACCA WASH	6-2PW5	MAP NO. 3	0.045	0.000	0.045
SHONTO	6-3S1	MAP NO. 3	1.006	0.000	1.006
SHONTO	6-3S1	MAP NO. 3	0.126	0.000	0.126
SHONTO	6-3S1	MAP NO. 3	0.008	0.000	0.008
SHONTO	6-3S2	MAP NO. 3	0.000	0.000	0.000
SHONTO	6-3S2	MAP NO. 3	0.284	0.000	0.284
SHONTO	6-3S2	MAP NO. 3	0.006	0.000	0.006
SHONTO	6-3S3	MAP NO. 3	0.000	0.000	0.000
SHONTO	6-3S3	MAP NO. 3	0.011	0.000	0.011
SHONTO	6-3S3	MAP NO. 3	0.644	0.000	0.644
SHONTO	SH-W4	MAP NO. 3	0.011	0.000	0.011
SHONTO	SH-W4	MAP NO. 3	0.003	0.000	0.003
SHONTO	SH-W4	MAP NO. 3	0.003	0.000	0.003
SHONTO	SH-W4	MAP NO. 3	0.045	0.000	0.045
SHONTO	SH-W5	MAP NO. 3	0.004	0.000	0.004
SOUTH ORAIBI	6-3SO1	MAP NO. 3	0.197	0.000	0.197
SOUTH ORAIBI	6-3SO1	MAP NO. 3	0.045	0.000	0.045
SOUTH ORAIBI	6-3SO1	MAP NO. 3	0.006	0.000	0.006
SOUTH ORAIBI	6-3SO2	MAP NO. 3	1.137	0.000	1.137
SOUTH ORAIBI	6-3SO2	MAP NO. 3	0.005	0.000	0.005
SOUTH ORAIBI	6-3SO2	MAP NO. 3	0.006	0.000	0.006
SOUTH ORAIBI	6-3SO3	MAP NO. 3	0.790	0.000	0.790
SOUTH ORAIBI	6-3SO3	MAP NO. 3	0.032	0.000	0.032
SOUTH ORAIBI	6-3SO4	MAP NO. 3	0.790	0.000	0.790
SOUTH ORAIBI	6-3SO4	MAP NO. 3	0.102	0.000	0.102
SOUTH ORAIBI	6-3SO4	MAP NO. 3	0.006	0.000	0.006
SOUTH ORAIBI	SO-W6	MAP NO. 3	0.006	0.000	0.006
SOUTH ORAIBI	SO-W7	MAP NO. 3	0.006	0.000	0.006
TALAHOGAN	6-IT1	MAP NO. 3	0.000	0.000	0.000
TALAHOGAN	6-IT1	MAP NO. 3	0.790	0.000	0.790
TALAHOGAN	6-IT1	MAP NO. 3	0.071	0.000	0.071
TALAHOGAN	6-IT1	MAP NO. 3	1.006	0.000	1.006

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
TALAHOGAN	6-IT1	MAP NO. 3	0.005	0.000	0.005
TALAHOGAN	6-IT1	MAP NO. 3	1.006	0.000	1.006
TALAHOGAN	6-IT1	MAP NO. 3	1.006	0.000	1.006
TALAHOGAN	6-IT1	MAP NO. 3	1.006	0.000	1.006
TALAHOGAN	6-IT1	MAP NO. 3	0.006	0.000	0.006
TALAHOGAN	6-IT1	MAP NO. 3	0.006	0.000	0.006
TALAHOGAN	6-IT2	MAP NO. 3	0.000	0.000	0.000
TALAHOGAN	6-IT2	MAP NO. 3	0.284	0.000	0.284
TALAHOGAN	6-IT2	MAP NO. 3	0.197	0.000	0.197
TALAHOGAN	6-IT2	MAP NO. 3	0.008	0.000	0.008
TALAHOGAN	6-IT2	MAP NO. 3	0.012	0.000	0.012
TALAHOGAN	6-IT3	MAP NO. 3	0.002	0.000	0.002
TALAHOGAN	6-IT3	MAP NO. 3	0.000	0.000	0.000
TALAHOGAN	6-IT3	MAP NO. 3	0.020	0.000	0.020
TALAHOGAN	6-IT3	MAP NO. 3	0.008	0.000	0.008
TALAHOGAN	6-IT4	MAP NO. 3	0.000	0.000	0.000
TALAHOGAN	6-IT4	MAP NO. 3	0.005	0.000	0.005
TALAHOGAN	6-IT4	MAP NO. 3	3.258	0.000	3.258
TALAHOGAN	6-IT4	MAP NO. 3	0.006	0.000	0.006
TOREVA	6-1H5	MAP NO. 3	0.071	0.000	0.071
TOREVA	6-1H5	MAP NO. 3	0.010	0.000	0.010
TOREVA	6-2PW1	MAP NO. 3	0.000	0.000	0.000
TOREVA	6-2PW1	MAP NO. 3	0.006	0.000	0.006
TOREVA	SP	MAP NO. 3	0.010	0.000	0.010
TOREVA MESA	6-2B5	MAP NO. 3	0.032	0.000	0.032
TOREVA MESA	6-2B5	MAP NO. 3	1.006	0.000	1.006
TOREVA MESA	6-2B5	MAP NO. 3	0.032	0.000	0.032
TOREVA MESA	6-2B5	MAP NO. 3	0.020	0.000	0.020
TOREVA MESA	6-2PW4	MAP NO. 3	0.020	0.000	0.020
TOREVA MESA	6-2PW4	MAP NO. 3	0.071	0.000	0.071
TOREVA MESA	6-2PW4	MAP NO. 3	0.790	0.000	0.790
TOREVA MESA	6-2PW4	MAP NO. 3	0.020	0.000	0.020
TOREVA MESA	6-2PW4	MAP NO. 3	0.006	0.000	0.006
UPPER POLACCA	6-1P1	MAP NO. 3	0.000	0.000	0.000
UPPER POLACCA	6-1P1	MAP NO. 3	2.668	0.000	2.668
UPPER POLACCA	6-1P1	MAP NO. 3	0.006	0.000	0.006
UPPER POLACCA	6-1P2	MAP NO. 3	0.849	0.000	0.849
UPPER POLACCA	6-1P2	MAP NO. 3	2.668	0.000	2.668
UPPER POLACCA	6-1P2	MAP NO. 3	0.017	0.000	0.017
UPPER POLACCA	6-1P2	MAP NO. 3	0.005	0.000	0.005
UPPER POLACCA	SP	MAP NO. 3	0.027	0.000	0.027
UPPER POLACCA	SP	MAP NO. 3	0.027	0.000	0.027

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
UPPER POLACCA	UP-W4	MAP NO. 3	2.161	0.000	2.161
UPPER POLACCA	UP-W4	MAP NO. 3	0.007	0.000	0.007
UPPER POLACCA	UP-W4	MAP NO. 3	0.007	0.000	0.007
UPPER POLACCA	UP-W4	MAP NO. 3	0.007	0.000	0.007
UPPER POLACCA	UP-W5	MAP NO. 3	2.752	0.000	2.752
UPPER POLACCA	UP-W5	MAP NO. 3	0.005	0.000	0.005
UPPER POLACCA	UP-W5	MAP NO. 3	0.010	0.000	0.010
WEST DINNEBITO	6-3WD1	MAP NO. 3	0.000	0.000	0.000
WEST DINNEBITO	6-3WD1	MAP NO. 3	0.126	0.000	0.126
WEST DINNEBITO	6-3WD1	MAP NO. 3	0.008	0.000	0.008
WEST DINNEBITO	6-3WD1	MAP NO. 3	0.006	0.000	0.006
WEST DINNEBITO	6-3WD2	MAP NO. 3	0.006	0.000	0.006
251	1K-239	MAP NO. 3	0.000	0.000	0.000
251	1K-239	MAP NO. 3	0.005	0.000	0.005
251	NEE DE MISE BET	MAP NO. 3	0.003	0.000	0.003
251	NEE DE MISE BET	MAP NO. 3	0.003	0.000	0.003
251	RED LAKE 4	MAP NO. 3	0.000	0.000	0.000
251	RED LAKE 4	MAP NO. 3	0.005	0.000	0.005
251	SAND SPRING	MAP NO. 3	0.003	0.000	0.003
251	SAND SPRING	MAP NO. 3	0.005	0.000	0.005
251	SAND SPRING	MAP NO. 3	0.002	0.000	0.002
251	SAND SPRING	MAP NO. 3	0.006	0.000	0.006
251	SIDE ROCK II	MAP NO. 3	0.000	0.000	0.000
251	SIDE ROCK II	MAP NO. 3	0.002	0.000	0.002
252	BITTER SPRING	MAP NO. 3	0.000	0.000	0.000
252	BITTER SPRING	MAP NO. 3	0.002	0.000	0.002
252	UNNAMED RED	MAP NO. 3	0.000	0.000	0.000
252	UNNAMED RED	MAP NO. 3	0.005	0.000	0.005
253	BASE OF COTTONW	MAP NO. 3	0.000	0.000	0.000
253	BASE OF COTTONW	MAP NO. 3	0.001	0.000	0.001
254	2T-503	MAP NO. 3	0.007	0.000	0.007
254	2T-503	MAP NO. 3	0.004	0.000	0.004
255	2-7-1	MAP NO. 3	0.252	0.000	0.252
255	2-7-2	MAP NO. 3	0.252	0.000	0.252
255	2-7-3	MAP NO. 3	0.000	0.000	0.000
255	2-7-3	MAP NO. 3	0.005	0.000	0.005
255	2-7-4	MAP NO. 3	0.000	0.000	0.000
255	2-7-4	MAP NO. 3	0.005	0.000	0.005
255	3K-330	MAP NO. 3	0.252	0.000	0.252
255	3K-330	MAP NO. 3	0.046	0.000	0.046
255	3K-330	MAP NO. 3	0.005	0.000	0.005
255	3K-332	MAP NO. 3	0.008	0.000	0.008

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
255	3K-345	MAP NO. 3	0.252	0.000	0.252
255	3K-345	MAP NO. 3	0.046	0.000	0.046
255	3K-345	MAP NO. 3	0.005	0.000	0.005
255	3M-156	MAP NO. 3	0.252	0.000	0.252
255	3M-156	MAP NO. 3	0.127	0.000	0.127
255	3M-156	MAP NO. 3	0.005	0.000	0.005
255	3M-159 A1	MAP NO. 3	0.000	0.000	0.000
255	3M-159 A1	MAP NO. 3	0.002	0.000	0.002
255	3M-159 A1	MAP NO. 3	0.002	0.000	0.002
255	3M-159 A2	MAP NO. 3	0.000	0.000	0.000
255	3M-159 A2	MAP NO. 3	0.002	0.000	0.002
255	BADGER SPRING	MAP NO. 3	0.000	0.000	0.000
255	BADGER SPRING	MAP NO. 3	0.252	0.000	0.252
255	NEZ SPRING	MAP NO. 3	0.000	0.000	0.000
255	NEZ SPRING	MAP NO. 3	0.002	0.000	0.002
256	2-8-1	MAP NO. 3	0.000	0.000	0.000
256	2-8-1	MAP NO. 3	0.005	0.000	0.005
256	2-8-2	MAP NO. 3	0.000	0.000	0.000
256	2-8-2	MAP NO. 3	0.005	0.000	0.005
256	2-8-344B	MAP NO. 3	0.000	0.000	0.000
256	2-8-344B	MAP NO. 3	0.002	0.000	0.002
256	3K-311	MAP NO. 3	0.252	0.000	0.252
256	3K-311	MAP NO. 3	0.046	0.000	0.046
256	3K-311	MAP NO. 3	0.005	0.000	0.005
256	3K-344	MAP NO. 3	0.252	0.000	0.252
256	3K-344	MAP NO. 3	0.071	0.000	0.071
256	3K-344	MAP NO. 3	0.005	0.000	0.005
256	BLUE CANYON WEL	MAP NO. 3	0.000	0.000	0.000
256	BLUE CANYON WEL	MAP NO. 3	0.002	0.000	0.002
256	FLAT WASH SPRIN	MAP NO. 3	0.000	0.000	0.000
256	FLAT WASH SPRIN	MAP NO. 3	0.002	0.000	0.002
256	TIS YA TOH	MAP NO. 3	0.000	0.000	0.000
256	TIS YA TOH	MAP NO. 3	0.003	0.000	0.003
256	WILLOW SPRING	MAP NO. 3	0.000	0.000	0.000
256	WILLOW SPRING	MAP NO. 3	0.003	0.000	0.003
257	257-E3	MAP NO. 3	0.252	0.000	0.252
257	257-E4	MAP NO. 3	0.252	0.000	0.252
257	257-E5	MAP NO. 3	0.252	0.000	0.252
257	4K-383	MAP NO. 3	0.081	0.000	0.081
257	4K-383	MAP NO. 3	0.005	0.000	0.005
257	4K-391	MAP NO. 3	0.005	0.000	0.005
257	4K-391	MAP NO. 3	0.005	0.000	0.005

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
257	4M-123 #1	MAP NO. 3	0.000	0.000	0.000
257	4M-123 #1	MAP NO. 3	0.001	0.000	0.001
257	4M-123 #2	MAP NO. 3	0.000	0.000	0.000
257	4M-123 #2	MAP NO. 3	0.005	0.000	0.005
257	4T-393	MAP NO. 3	0.005	0.000	0.005
257	4T-393	MAP NO. 3	0.005	0.000	0.005
257	COTTON WOOD SPR	MAP NO. 3	0.000	0.000	0.000
257	COTTON WOOD SPR	MAP NO. 3	0.002	0.000	0.002
257	DEAD DOG TOH AH	MAP NO. 3	0.000	0.000	0.000
257	DEAD DOG TOH AH	MAP NO. 3	0.003	0.000	0.003
257	HAND BUILT POND	MAP NO. 3	0.000	0.000	0.000
257	HAND BUILT POND	MAP NO. 3	0.002	0.000	0.002
257	NAKAI YAZZIE	MAP NO. 3	0.000	0.000	0.000
257	NAKAI YAZZIE	MAP NO. 3	0.002	0.000	0.002
257	TOH HONI NI TOH	MAP NO. 3	0.000	0.000	0.000
257	TOH HONI NI TOH	MAP NO. 3	0.002	0.000	0.002
257	WHITE CAVE SPR	MAP NO. 3	0.000	0.000	0.000
257	WHITE CAVE SPR	MAP NO. 3	0.000	0.000	0.000
257	WHITE CAVE SPR	MAP NO. 3	0.003	0.000	0.003
258	2-13-1	MAP NO. 3	0.046	0.000	0.046
258	2-13-1	MAP NO. 3	0.002	0.000	0.002
258	UNNAMED	MAP NO. 3	0.000	0.000	0.000
258	UNNAMED	MAP NO. 3	0.000	0.000	0.000
258	UNNAMED	MAP NO. 3	0.002	0.000	0.002
259	2-11-1	MAP NO. 3	0.038	0.000	0.038
259	2-11-1	MAP NO. 3	0.004	0.000	0.004
259	259-E1	MAP NO. 3	0.478	0.000	0.478
259	259-E2	MAP NO. 3	0.212	0.000	0.212
259	259-E2	MAP NO. 3	0.212	0.000	0.212
259	4K-384	MAP NO. 3	0.004	0.000	0.004
259	4K-384	MAP NO. 3	0.004	0.000	0.004
259	4T-515	MAP NO. 3	0.004	0.000	0.004
259	4T-515	MAP NO. 3	0.004	0.000	0.004
259	HORSE SPRING	MAP NO. 3	0.000	0.000	0.000
259	HORSE SPRING	MAP NO. 3	0.001	0.000	0.001
259	NAKAI YAZZIE	MAP NO. 3	0.000	0.000	0.000
259	NAKAI YAZZIE	MAP NO. 3	0.001	0.000	0.001
259	SWEETWATER	MAP NO. 3	0.000	0.000	0.000
259	SWEETWATER	MAP NO. 3	0.001	0.000	0.001
260	4M-144 A	MAP NO. 3	0.000	0.000	0.000
260	4M-144 A	MAP NO. 3	0.001	0.000	0.001
260	SAND SPRING	MAP NO. 3	0.000	0.000	0.000

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
260	SAND SPRING	MAP NO. 3	.000	0.000	.000
260	WHITE SANDSTONE	MAP NO. 3	0.000	0.000	0.000
260	WHITE SANDSTONE	MAP NO. 3	0.001	0.000	0.001
261	RED WILLOW	MAP NO. 3	0.000	0.000	0.000
261	RED WILLOW	MAP NO. 3	0.001	0.000	0.001
261	WALK A MILE	MAP NO. 3	0.000	0.000	0.000
261	WALK A MILE	MAP NO. 3	.000	0.000	.000
262	2-5-1	MAP NO. 3	0.427	0.000	0.427
262	2-5-1	MAP NO. 3	0.004	0.000	0.004
262	2-5-1	MAP NO. 3	0.002	0.000	0.002
262	262-E2 #2	MAP NO. 3	0.136	0.000	0.136
262	4T-395	MAP NO. 3	0.167	0.000	0.167
262	BENALLY	MAP NO. 3	0.000	0.000	0.000
262	BENALLY	MAP NO. 3	.000	0.000	.000
262	BIG MTN.	MAP NO. 3	0.002	0.000	0.002
262	BIG MTN.	MAP NO. 3	0.002	0.000	0.002
262	BIG MTN. RUIN	MAP NO. 3	0.000	0.000	0.000
262	BIG MTN. RUIN	MAP NO. 3	0.003	0.000	0.003
263	4K-380	MAP NO. 3	0.166	0.000	0.166
263	4K-380	MAP NO. 3	0.005	0.000	0.005
263	4K-380	MAP NO. 3	0.003	0.000	0.003
263	4T-405	MAP NO. 3	0.000	0.000	0.000
263	4T-405	MAP NO. 3	0.003	0.000	0.003
263	4T-406	MAP NO. 3	0.000	0.000	0.000
263	4T-406	MAP NO. 3	0.166	0.000	0.166
263	4T-406	MAP NO. 3	0.166	0.000	0.166
263	4T-406	MAP NO. 3	0.003	0.000	0.003
263	4T-511	MAP NO. 3	0.166	0.000	0.166
263	4T-511	MAP NO. 3	0.005	0.000	0.005
263	4T-511	MAP NO. 3	0.002	0.000	0.002
263	BLACK HORSE	MAP NO. 3	0.000	0.000	0.000
263	BLACK HORSE	MAP NO. 3	.000	0.000	.000
263	COTTONWOOD	MAP NO. 3	0.000	0.000	0.000
263	FLAT TOP SIDE	MAP NO. 3	0.000	0.000	0.000
263	FLAT TOP SIDE	MAP NO. 3	0.001	0.000	0.001
263	MANG SHEEP	MAP NO. 3	0.004	0.000	0.004
263	MANG SHEEP	MAP NO. 3	0.003	0.000	0.003
263	SAGEBRUSH	MAP NO. 3	0.000	0.000	0.000
263	SAGEBRUSH	MAP NO. 3	0.331	0.000	0.331
263	SAGEBRUSH	MAP NO. 3	0.002	0.000	0.002
351	4M-87	MAP NO. 3	0.478	0.000	0.478
351	4M-87	MAP NO. 3	0.022	0.000	0.022

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
351	4M-87	MAP NO. 3	0.003	0.000	0.003
351	4M-87	MAP NO. 3	0.006	0.000	0.006
351	4M-89A	MAP NO. 3	0.608	0.000	0.608
351	4M-89A	MAP NO. 3	0.030	0.000	0.030
351	4M-89A	MAP NO. 3	0.006	0.000	0.006
351	CROOKED FINGER	MAP NO. 3	0.000	0.000	0.000
351	HA TUN AKAHA BI	MAP NO. 3	0.001	0.000	0.001
351	HA TUN AKAHA BI	MAP NO. 3	0.001	0.000	0.001
351	ROCK ROCK WELL	MAP NO. 3	0.000	0.000	0.000
351	ROCK ROCK WELL	MAP NO. 3	0.003	0.000	0.003
351	ROUGH ROCK SPRI	MAP NO. 3	0.000	0.000	0.000
351	ROUGH ROCK SPRI	MAP NO. 3	0.004	0.000	0.004
351	UNDER ROCK	MAP NO. 3	0.000	0.000	0.000
351	UNDER ROCK	MAP NO. 3	0.004	0.000	0.004
451	4M-70	MAP NO. 3	0.000	0.000	0.000
451	4M-70	MAP NO. 3	0.003	0.000	0.003
551	3A-153	MAP NO. 3	0.008	0.000	0.008
551	3K-320	MAP NO. 3	0.000	0.000	0.000
551	3K-320	MAP NO. 3	0.081	0.000	0.081
551	3K-320	MAP NO. 3	0.005	0.000	0.005
551	3K-320	MAP NO. 3	0.005	0.000	0.005
551	3K-320	MAP NO. 3	0.005	0.000	0.005
551	3K-332	MAP NO. 3	0.252	0.000	0.252
551	3K-332	MAP NO. 3	0.008	0.000	0.008
551	3K-332	MAP NO. 3	0.071	0.000	0.071
551	3K-332	MAP NO. 3	0.002	0.000	0.002
551	3M-175	MAP NO. 3	0.000	0.000	0.000
551	3M-175	MAP NO. 3	0.002	0.000	0.002
551	3M-175	MAP NO. 3	0.002	0.000	0.002
551	3M-176	MAP NO. 3	0.000	0.000	0.000
551	3M-176	MAP NO. 3	0.000	0.000	0.000
551	3M-176	MAP NO. 3	0.025	0.000	0.025
551	3M-176	MAP NO. 3	0.002	0.000	0.002
551	3M-176	MAP NO. 3	0.002	0.000	0.002
551	551-1	MAP NO. 3	0.008	0.000	0.008
551	551-1	MAP NO. 3	0.008	0.000	0.008
551	551-1	MAP NO. 3	0.046	0.000	0.046
551	551-2	MAP NO. 3	0.000	0.000	0.000
551	551-2	MAP NO. 3	0.008	0.000	0.008
551	HOCK SPRING	MAP NO. 3	0.000	0.000	0.000
551	HOCK SPRING	MAP NO. 3	0.003	0.000	0.003

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
552	351-2	MAP NO. 3	0.008	0.000	0.008
552	351-2	MAP NO. 3	0.008	0.000	0.008
552	3A-152	MAP NO. 3	0.127	0.000	0.127
552	3A-152	MAP NO. 3	0.008	0.000	0.008
552	3A-152	MAP NO. 3	0.002	0.000	0.002
552	63-53	MAP NO. 3	0.008	0.000	0.008
552	SALT WELL	MAP NO. 3	0.002	0.000	0.002
552	SALT WELL	MAP NO. 3	0.003	0.000	0.003
552	SAND SPRING	MAP NO. 3	0.002	0.000	0.002
552	SAND SPRING	MAP NO. 3	0.002	0.000	0.002
552	SAND SPRING	MAP NO. 3	0.002	0.000	0.002
552	SAND SPRINGS	MAP NO. 3	0.000	0.000	0.000
552	SWEET WATER	MAP NO. 3	0.000	0.000	0.000
552	SWEET WATER	MAP NO. 3	0.003	0.000	0.003
552	SWEET WATER WEL	MAP NO. 3	0.002	0.000	0.002
552	UNNAMED SPRING	MAP NO. 3	0.002	0.000	0.002
552	WHISKEY	MAP NO. 3	0.000	0.000	0.000
553	6353	MAP NO. 3	0.008	0.000	0.008
553	6353	MAP NO. 3	0.008	0.000	0.008
553	6353	MAP NO. 3	0.008	0.000	0.008
553	RED ROCK WELL	MAP NO. 3	0.000	0.000	0.000
553	RED ROCK WELL	MAP NO. 3	0.003	0.000	0.003
553	SAND VALLEY	MAP NO. 3	0.000	0.000	0.000
553	SAND VALLEY	MAP NO. 3	0.002	0.000	0.002
553	SAND VALLEY WEL	MAP NO. 3	0.000	0.000	0.000
553	UNNAMED	MAP NO. 3	0.000	0.000	0.000
553	UNNAMED	MAP NO. 3	0.000	0.000	0.000
553	UNNAMED	MAP NO. 3	0.003	0.000	0.003
553	UNNAMED	MAP NO. 3	0.003	0.000	0.003
553	UNNAMED WELL	MAP NO. 3	0.002	0.000	0.002
554	554-E6	MAP NO. 3	0.252	0.000	0.252
554	5M-1	MAP NO. 3	0.003	0.000	0.003
554	5M-1	MAP NO. 3	0.008	0.000	0.008
554	5M-1	MAP NO. 3	0.002	0.000	0.002
554	SAND VALLEY WEL	MAP NO. 3	0.002	0.000	0.002
554	SANDSPRINGS	MAP NO. 3	0.008	0.000	0.008
555	555-1	MAP NO. 3	0.000	0.000	0.000
555	555-1	MAP NO. 3	0.002	0.000	0.002
555	5K-330	MAP NO. 3	0.008	0.000	0.008
556	5K-330	MAP NO. 3	0.000	0.000	0.000
556	5K-330	MAP NO. 3	0.566	[illegible]	[illegible]

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
557	557-1	MAP NO. 3	0.008	0.000	0.008
558	DOG WELL	MAP NO. 3	0.000	0.000	0.000
558	DOG WELL	MAP NO. 3	0.003	0.000	0.003
558	KALBITO SPRING	MAP NO. 3	0.003	0.000	0.003
558	SEBA DALKAI	MAP NO. 3	0.003	0.000	0.003
558	SEBA DALKAI	MAP NO. 3	0.003	0.000	0.003
559	7H-233	MAP NO. 3	0.003	0.000	0.003
559	7H-233	MAP NO. 3	0.003	0.000	0.003
559	BELL BUTTE SPRI	MAP NO. 3	0.000	0.000	0.000
559	BELL BUTTE SPRI	MAP NO. 3	0.000	0.000	0.000
559	BELL BUTTE SPRI	MAP NO. 3	0.002	0.000	0.002
559	CROWN POINT WEL	MAP NO. 3	0.000	0.000	0.000
559	CROWN POINT WEL	MAP NO. 3	0.002	0.000	0.002
559	HORSE SPRING	MAP NO. 3	0.000	0.000	0.000
559	HORSE SPRING	MAP NO. 3	0.000	0.000	0.000
559	HORSE SPRING	MAP NO. 3	0.002	0.000	0.002
559	LUKAI SPRINGS	MAP NO. 3	0.000	0.000	0.000
559	LUKAI SPRINGS	MAP NO. 3	0.000	0.000	0.000
559	LUKAI SPRINGS	MAP NO. 3	0.002	0.000	0.002
559	LUKAI SPRINGS	MAP NO. 3	0.002	0.000	0.002
559	LUKAI SPRINGS	MAP NO. 3	0.002	0.000	0.002
559	LUKAI SPRINGS	MAP NO. 3	0.002	0.000	0.002
559	SHANETOH SPRING	MAP NO. 3	0.000	0.000	0.000
559	SHANETOH SPRING	MAP NO. 3	0.003	0.000	0.003
559	TT5-2	MAP NO. 3	0.000	0.000	0.000
559	TT5-2	MAP NO. 3	0.002	0.000	0.002
559	UNNAMED	MAP NO. 3	0.003	0.000	0.003
561	7T-520	MAP NO. 3	0.005	0.000	0.005
562	562-E8	MAP NO. 3	0.566	0.000	0.566
562	562-E9	MAP NO. 3	0.252	0.000	0.252
562	7A-5-A2	MAP NO. 3	0.000	0.000	0.000
562	7A-5-A2	MAP NO. 3	0.005	0.000	0.005
562	7A-5-A2	MAP NO. 3	0.005	0.000	0.005
562	7K-355	MAP NO. 3	0.000	0.000	0.000
562	7K-355	MAP NO. 3	0.005	0.000	0.005
562	7T-504	MAP NO. 3	0.000	0.000	0.000
562	7T-504	MAP NO. 3	0.005	0.000	0.005
562	PRIVATE WELL	MAP NO. 3	0.000	0.000	0.000
562	PRIVATE WELL	MAP NO. 3	0.002	0.000	0.002
563	563-E1	MAP NO. 3	0.252	0.000	0.252
563	563-E3	MAP NO. 3	0.252	0.000	0.252
[illegible]	563-E4	MAP NO. 3	0.252	0.000	0.252

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
563	7H-5A-4	MAP NO. 3	0.005	0.000	0.005
563	7K-355	MAP NO. 3	0.086	0.000	0.086
563	7K-355	MAP NO. 3	0.005	0.000	0.005
563	7K-363	MAP NO. 3	0.005	0.000	0.005
563	7T-520	MAP NO. 3	0.088	0.000	0.088
563	7T-520	MAP NO. 3	0.005	0.000	0.005
565	7H-5A4	MAP NO. 3	0.000	0.000	0.000
565	7H-5A4	MAP NO. 3	0.252	0.000	0.252
565	7H-5A4	MAP NO. 3	0.002	0.000	0.002
565	7K-363	MAP NO. 3	0.000	0.000	0.000
565	7K-363	MAP NO. 3	0.252	0.000	0.252
565	7K-363	MAP NO. 3	0.005	0.000	0.005
566	7H-5A7A1	MAP NO. 3	0.000	0.000	0.000
566	7H-5A7A1	MAP NO. 3	0.003	0.000	0.003
566	7H-5A7A2	MAP NO. 3	0.003	0.000	0.003
567	567-E3	MAP NO. 3	0.212	0.000	0.212
567	7H-5A-6	MAP NO. 3	0.004	0.000	0.004
567	7T-519	MAP NO. 3	0.042	0.000	0.042
567	7T-519	MAP NO. 3	0.004	0.000	0.004
567	7T-519	MAP NO. 3	0.004	0.000	0.004
568	7H-5A-6	MAP NO. 3	0.000	0.000	0.000
568	7H-5A-6	MAP NO. 3	0.004	0.000	0.004
568	7H-5A-6	MAP NO. 3	0.004	0.000	0.004
568	7H-5A-6	MAP NO. 3	0.004	0.000	0.004
568	7T-519	MAP NO. 3	0.004	0.000	0.004
569	#19	MAP NO. 3	0.004	0.000	0.004
569	7H-37	MAP NO. 3	0.212	0.000	0.212
569	7H-37	MAP NO. 3	0.042	0.000	0.042
569	7H-37	MAP NO. 3	0.005	0.000	0.005
570	5H-27 P29	MAP NO. 3	0.001	0.000	0.001
570	5H-27 P29	MAP NO. 3	0.006	0.000	0.006
570	7H-27	MAP NO. 3	0.004	0.000	0.004
570	7K-371	MAP NO. 3	0.319	0.000	0.319
570	7K-371	MAP NO. 3	0.038	0.000	0.038
570	WINDMILL #19	MAP NO. 3	0.002	0.000	0.002
570	WINDMILL #19	MAP NO. 3	0.002	0.000	0.002
571	7H-26	MAP NO. 3	0.001	0.000	0.001
571	7H-26	MAP NO. 3	0.002	0.000	0.002
571	7K-371	MAP NO. 3	0.004	0.000	0.004
572	7K-364	MAP NO. 3	0.000	0.000	0.000
572	7K-364	MAP NO. 3	0.002	0.000	0.002
573	20	MAP NO. 3	0.027	0.000	0.027

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
573	20	MAP NO. 3	0.002	0.000	0.002
251	1K-239	MAP NO. 3	0.000	0.008	0.008
251	RED LAKE #4	MAP NO. 3	0.000	0.008	0.008
251	UNNAMED(IN 252)	MAP NO. 3	0.000	0.008	0.008
254	COTTONWOOD SP	MAP NO. 3	0.000	0.008	0.008
254	KYDESTEA SP	MAP NO. 3	0.000	0.008	0.008
254	MARKED TRAIL SP	MAP NO. 3	0.000	0.008	0.008
255	2-7-1	MAP NO. 3	0.000	0.008	0.008
255	2-7-2	MAP NO. 3	0.000	0.008	0.008
255	3H-170	MAP NO. 3	0.000	0.008	0.008
255	3K-330	MAP NO. 3	0.000	0.008	0.008
255	3M-156	MAP NO. 3	0.000	0.008	0.008
255	NEZ	MAP NO. 3	0.000	0.008	0.008
256	2-8-1	MAP NO. 3	0.000	0.008	0.008
256	2-8-2	MAP NO. 3	0.000	0.008	0.008
256	3K-344	MAP NO. 3	0.000	0.008	0.008
256	TIS YA TOH	MAP NO. 3	0.000	0.008	0.008
256	WILLOW	MAP NO. 3	0.000	0.008	0.008
257	4K-383	MAP NO. 3	0.000	0.008	0.008
257	4K-391	MAP NO. 3	0.000	0.008	0.008
257	BOB CAT	MAP NO. 3	0.000	0.008	0.008
257	JUA 2-9-391	MAP NO. 3	0.000	0.008	0.008
257	PROPOSED WELL	MAP NO. 3	0.000	0.008	0.008
258	2-13-1	MAP NO. 3	0.000	0.008	0.008
258	2-13-123	MAP NO. 3	0.000	0.008	0.008
258	UNNAMED	MAP NO. 3	0.000	0.008	0.008
258	UNNAMED	MAP NO. 3	0.000	0.008	0.008
259	2-11-1	MAP NO. 3	0.000	0.007	0.007
259	2-5-1	MAP NO. 3	0.000	0.007	0.007
259	4K-384	MAP NO. 3	0.000	0.007	0.007
259	BIG MTN. RUIN	MAP NO. 3	0.000	0.007	0.007
259	CLIFF DWELLING	MAP NO. 3	0.000	0.007	0.007
259	DANGER	MAP NO. 3	0.000	0.007	0.007
259	HORSE	MAP NO. 3	0.000	0.007	0.007
259	NAKAI YAZZLE	MAP NO. 3	0.000	0.007	0.007
260	NARROW LEDGE	MAP NO. 3	0.000	0.007	0.007
260	PROPOSED WELL	MAP NO. 3	0.000	0.038	0.038
260	SAND SPRING	MAP NO. 3	0.000	0.007	0.007
260	WHITE SANDSTONE	MAP NO. 3	0.000	0.007	0.007
261	2 HEADED SNARE	MAP NO. 3	0.000	0.007	0.007
261	4K-387	MAP NO. 3	0.000	0.007	0.007

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
261	RED WILLOW	MAP NO. 3	0.000	0.007	0.007
261	WALK A MILE	MAP NO. 3	0.000	0.007	0.007
262	BIG MTN.	MAP NO. 3	0.000	0.007	0.007
263	BLACK HORSE	MAP NO. 3	0.000	0.005	0.005
263	COTTONWOOD	MAP NO. 3	0.000	0.005	0.005
263	LOOKING WOMAN	MAP NO. 3	0.000	0.005	0.005
263	OWL SPRING	MAP NO. 3	0.000	0.005	0.005
263	POST	MAP NO. 3	0.000	0.005	0.005
263	SAGEBRUSH	MAP NO. 3	0.000	0.005	0.005
351	4M-89A	MAP NO. 3	0.000	0.007	0.007
451	4M70 FW	MAP NO. 3	0.000	0.007	0.007
451	CAT SPRING	MAP NO. 3	0.000	0.007	0.007
553	553-1	MAP NO. 3	0.000	0.008	0.008
553	553-1	MAP NO. 3	0.000	0.046	0.046
553	SHONTO SPRING	MAP NO. 3	0.000	0.008	0.008
555	553-1	MAP NO. 3	0.000	0.007	0.007
557	7K-302	MAP NO. 3	0.000	0.008	0.008
558	7K-302	MAP NO. 3	0.000	0.008	0.008
558	7K-302	MAP NO. 3	0.000	0.008	0.008
558	KALBITO SP	MAP NO. 3	0.000	0.008	0.008
558	LUKAI SP	MAP NO. 3	0.000	0.008	0.008
558	SEBA DALKAI SP	MAP NO. 3	0.000	0.008	0.008
559	BELL BUTLE SP	MAP NO. 3	0.000	0.008	0.008
559	HORSE SP	MAP NO. 3	0.000	0.008	0.008
559	LUKAI SP	MAP NO. 3	0.000	0.002	0.002
559	SEBA DALKAI SP	MAP NO. 3	0.000	0.008	0.008
559	WOLF PASS WELL	MAP NO. 3	0.000	0.008	0.008
560	7T-520	MAP NO. 3	0.000	0.008	0.008
562	7K-355	MAP NO. 3	0.000	0.008	0.008
562	TT-504	MAP NO. 3	0.000	0.058	0.058
563	7H-5A-4	MAP NO. 3	0.000	0.008	0.008
563	7K-363	MAP NO. 3	0.000	0.008	0.008
564	7A-5A-2	MAP NO. 3	0.000	0.008	0.008
570	19	MAP NO. 3	0.000	0.007	0.007
570	7K-371	MAP NO. 3	0.000	0.007	0.007
571	18	MAP NO. 3	0.000	0.008	0.008
571	7K-371	MAP NO. 3	0.000	0.008	0.008
573	PROPOSED WELL	MAP NO. 3	0.000	0.038	0.038

Table 10A (Continued)

STOCKWATER USE (EVAPORATION)
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

RANGE UNIT	LABEL	LOCATION	CURRENT OR RECENT USE(AF)	ADD. FUTURE USE(AF)	TOTAL USE(AF)
NAVAJO*			6.600	0.000	6.600
	TABLE 10A TOTALS		62.8	0.7	63.6
	TABLE 10 TOTALS		571.7	118.3	690.0
	STOCKWATER TOTALS		634.6	119.0	753.6

* REPRESENTS ALL NAVAJO TANK AND TROUGH EVAPORATION.

Table 11

STOCKPOND USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
SURFACE WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

STOCKPOND NAME/ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
101-10	511199	4035824	0.3512	0.0000	0.3512
101-2	508212	4036899	0.3512	0.0000	0.3512
101-3	510441	4045682	0.3512	0.0000	0.3512
101-6	508961	4033664	0.3512	0.0000	0.3512
102-1	510954	4033050	0.3512	0.0000	0.3512
102-2	514694	4029513	0.3512	0.0000	0.3512
103-10	527252	4035551	0.3512	0.0000	0.3512
103-3	519039	4035529	0.3512	0.0000	0.3512
103-4	525388	4034621	0.3512	0.0000	0.3512
103-5	525760	4035085	0.3512	0.0000	0.3512
103-6	526132	4035548	0.3512	0.0000	0.3512
103-7	525890	4033236	0.3512	0.0000	0.3512
103-8	526889	4032161	0.3512	0.0000	0.3512
103-9	526890	4031853	0.3512	0.0000	0.3512
104-2	529484	4037870	0.3512	0.0000	0.3512
104-4	530237	4036023	0.3512	0.0000	0.3512
105-10	505610	4019797	0.3512	0.0000	0.3512
105-4	500747	4026727	0.3512	0.0000	0.3512
105-8	503739	4021182	0.3512	0.0000	0.3512
105-9	505609	4021029	0.3512	0.0000	0.3512
107-10	510468	4022882	0.3512	0.0000	0.3512
107-12	511961	4024425	0.3512	0.0000	0.3512
107-13	511223	4017499	0.3512	0.0000	0.3512
107-14	511595	4019186	0.3512	0.0000	0.3512
107-15	508604	4017488	0.3512	0.0000	0.3512
107-16	504116	4015636	0.3512	0.0000	0.3512
107-19	500748	4015635	0.3512	0.0000	0.3512
107-2 & 3	505984	4019797	0.3512	0.0000	0.3512
107-8	508227	4021185	0.3512	0.0000	0.3512
107-9	509347	4022111	0.3512	0.0000	0.3512
108-1	671456	3951235	0.3512	0.0000	0.3512
108-10	664777	3941756	0.3512	0.0000	0.3512
108-11	670844	3941611	0.3512	0.0000	0.3512
108-12	663666	3940886	0.3512	0.0000	0.3512
108-13	660882	3940178	0.3512	0.0000	0.3512
108-14	659450	3938746	0.3512	0.0000	0.3512
108-15	665066	3938971	0.3512	0.0000	0.3512
108-16	671456	3939406	0.3512	0.0000	0.3512
108-17	661590	3934546	0.3512	0.0000	0.3512
108-18	662652	3934111	0.3512	0.0000	0.3512
108-19	665984	3935656	0.3512	0.0000	0.3512
108-2	673628	3950430	0.3512	0.0000	0.3512

Table 11 (Continued)

STOCKPOND USE (LIVESTOCK CONSUMPTION)
CURRENT OR RECENT, AND FUTURE
SURFACE WATER CLAIM
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

STOCKPOND NAME/ RANGE UNIT	UTM COORDINATES EASTING	NORTHING	CURRENT OR RECENT USE (AF)	ADDITIONAL FUTURE USE (AF)	TOTAL USE (AF)
108-20	665968	3934723	0.3512	0.0000	0.3512
108-21	666113	3934127	0.3512	0.0000	0.3512
108-22	663409	3932502	0.3512	0.0000	0.3512
108-4.	672727	3946921	0.3512	0.0000	0.3512
108-5	665936	3946101	0.3512	0.0000	0.3512
108-6	663505	3944540	0.3512	0.0000	0.3512
108-7	518924	4031370	0.3512	0.0000	0.3512
108-8	664503	3942914	0.3512	0.0000	0.3512
108-9	661848	3941804	0.3512	0.0000	0.3512
109-10	528000	4035092	0.3512	0.0000	0.3512
109-11	528750	4034170	0.3512	0.0000	0.3512
109-6	528009	4032319	0.3512	0.0000	0.3512
109-7	527634	4032780	0.3512	0.0000	0.3512
109-8	528008	4032781	0.3512	0.0000	0.3512
109-9	527882	4033088	0.3512	0.0000	0.3512
110-4	540681	4037915	0.3512	0.0000	0.3512
110-5	542176	4037460	0.3512	0.0000	0.3512
116-1	498230	3942308	0.3512	0.0000	0.3512
116-2	498310	3940377	0.3512	0.0000	0.3512
116-3	494657	3937899	0.3512	0.0000	0.3512
116-4	485532	3935887	0.3512	0.0000	0.3512
116-5	479352	3930834	0.3512	0.0000	0.3512
116-6	484293	3930126	0.3512	0.0000	0.3512
124-1	665825	3929618	0.3512	0.0000	0.3512
124-10	669494	3922955	0.3512	0.0000	0.3512
124-11	659596	3921185	0.3512	0.0000	0.3512
124-12	664183	3922070	0.3512	0.0000	0.3512
124-13	668898	3920461	0.3512	0.0000	0.3512
124-14	669059	3919560	0.3512	0.0000	0.3512
124-15	672857	3916808	0.3512	0.0000	0.3512
124-16	673549	3915214	0.3512	0.0000	0.3512
124-2	660884	3928186	0.3512	0.0000	0.3512
124-3	664022	3926930	0.3512	0.0000	0.3512
124-4	675513	3927429	0.3512	0.0000	0.3512
124-5	660964	3925627	0.3512	0.0000	0.3512
124-6	663861	3924822	0.3512	0.0000	0.3512
124-7	673968	3925257	0.3512	0.0000	0.3512
124-8	657231	3923744	0.3512	0.0000	0.3512
124-9	662413	3922859	0.3512	0.0000	0.3512
125-1	654943	3927723	0.3512	0.0000	0.3512
125-2	657100	3927674	0.3512	0.0000	0.3512
125-3	658709	3927433	0.3512	0.0000	0.3512

39-91441
(US)
11-22-94

U.S. Department of Justice

Environment and Natural Resources Division

HM:WAWhite:gpr
90-6-2-54

Washington, D.C. 20530

November 22, 1994

Mr. Richard Lupke
Clerk of the Court
Apache County Superior Court
70 West 3rd Street
St. Johns, Arizona 85936

Dear Mr. Lupke:

Re: In re: The General Adjudication Of All Rights Of Water Use In The Little Colorado River System And Source, Civil No. 6417, Superior Court, Apache County Arizona.

Enclosed for filing please find an original and one copy of the "United States' Statement of Amended Claims." Thank you for your attention to this matter.

Sincerely,

William A. White
Attorney, Indian Resources Section
Environment and Natural Resources Division

Enclosure

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Attorneys for the United States

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF APACHE

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	NO. 6417 **UNITED STATES' STATEMENT OF AMENDED CLAIMS**

CONTESTED CASE NAMES: *In re Reporting of Diversion Information and Other Objections.*

DESCRIPTIVE SUMMARY: Statement supporting the filing of amended claims by the United States on behalf of the Hopi Indian Tribe, the Navajo Nation, the White Mountain Apache Tribe and the Zuni Pueblo, their lessees and allottees.

DATE OF MAILING TO CLERK OF THE COURT: November 22, 1994.

NUMBER OF PAGES: 4

Attached to this statement is a copy of Report of Supplemental Water Claims By the United States of America for

the Indian Lands in the Little Colorado River Basin [Report] which constitutes the amended claims to use water being filed by the United States on its own behalf and as trustee for the Navajo Nation, the Hopi Indian Tribe, the White Mountain Apache Tribe and the Zuni Pueblo. This statement is being filed in accordance with the Court's *Minute Entry* of April 18, 1994, and the *Memorandum from Special Master to Water Rights Claimants in the Little Colorado River General Stream Adjudication* (September 23, 1994), 5.

These amended claims are inclusive of all of the categories discussed by the special master in the September 23, 1994, memorandum, to wit: (1) statements of claimant filed by the United States on behalf of the tribes asserting water rights based on **federal** law; (2) statements of claimant filed by the United States on behalf of the tribes asserting water rights based on **state** law;[1] (3) statements of claimant filed by **lessees** of the tribes or of the United States asserting tribal water rights based on **federal** law; (4) statements of claimant associated with **allotments** of former reservation land asserting water rights based on **federal** law (Walton rights); (5) statements of claimants associated with lands owned by the

[1]The extent to which the Pueblo of Zuni may assert water rights based on state law is being investigated and its claims may be supplemented as necessary.

RM 08D-183

tribes that are not located on the reservation, new lands, or fee lands.

The amended claims filed herewith represent the work which has been accomplished to date and is not intended to be a definitive statement of all claims to be made by the United States on behalf of the tribes. The reconfiguration of this litigation occasioned by the Court's order of January 27, 1994, and the short deadlines imposed upon the parties since then has not permitted the United States to complete the work on all its potential claims on behalf of the tribes by the present date. See *Memorandum of United States, the Navajo Nation, the Hopi Tribe and San Juan Southern Paiute Tribe in Support of Their Motion to Delay the Filing of the Hydrographic Survey Report for Indian Lands in the Little Colorado River System*, 3-7. This situation is particularly true for the claims made on behalf of the Zuni Pueblo for water to be used for religious purposes. See Report, 10.

The finality of many of our claims filed so far is further complicated by the uncertain situation with regards to groundwater in the watershed. Once the groundwater issues now before the Arizona Supreme Court are resolved, it may be necessary for the United States to amend its claims in order to conform with the Court's determinations.

8M 08D-183

Respectfully submitted this 22nd day of November, 1994.

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RM OBD-183

NRCE

NATURAL RESOURCES CONSULTING ENGINEERS, INC.

CIVIL, ENVIRONMENTAL, AND WATER RESOURCES CONSULTANTS

November 22, 1994

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Gentlemen:

Transmitted herewith is a summary of the amended water rights claims for the Indian Lands in the Little Colorado River basin. The claims, which include both agricultural and non-agricultural water uses, are summarized below.

Water Demand (Acre-feet)			
Water Use	**Present or Recent**	**Future Additional**	**Total**
Irrigation (Surface)	160,737	228,868	389,605
Irrigation (Ground)	7,874	124,519	132,393
Evaporation from Irrigation Storage	1,158	30,370	31,528
Municipal and Domestic	12,657	30,490	43,147
Stockponds	22,677	873	26,741
Recreation	2,478	404	2,882
Industrial	291	33,072	33,363
Mining	8,449	11,065	19,514
Religious	Study in Progress	Study in Progress	Study in Progress
Total	219,512	459,661	679,173

The studies conducted to arrive at the above claims were reconnaissance in nature and were based upon field studies and existing data and information. Additional data collection, field investigations and feasibility level studies will be necessary to refine the claims. Therefore, it can be expected that, at some future date, it will be necessary to revise the statement of claims.

Sincerely,
NATURAL RESOURCES CONSULTING ENGINEERS, INC.

Woldezion Mesghinna

Woldezion Mesghinna
President

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NATURAL RESOURCES CONSULTING ENGINEERS, INC.

CIVIL, ENVIRONMENTAL, AND WATER RESOURCES CONSULTANTS

REPORT OF AMENDED WATER CLAIMS BY THE UNITED STATES OF AMERICA FOR THE INDIAN LANDS IN THE LITTLE COLORADO RIVER BASIN

In Connection With
The General Adjudication of
All Rights of Water Use in the
Little Colorado River System
and Source, Civil No. 6417,
Superior Court, Apache County, Arizona

Prepared for
U.S Department of Justice

November 22, 1994

Prepared by
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INTRODUCTION

This amended claim has been prepared in response to the Draft Hydrographic Survey Report for Indian Lands in the Little Colorado River System prepared by the Arizona Department of Water Resources in September 1994. This supplemental claim includes water claims associated with the Navajo, Hopi, White Mountain Apache Indian Reservations, San Juan Southern Paiute Lands and the Zuni Pueblo in Arizona.

The studies conducted to arrive at this claim were reconnaissance in nature and were based upon field study, existing data and information. Additional data collection, field investigations, and feasibility level studies will be necessary to refine the claims. Therefore, it can be expected that, at some future date, it will be necessary to revise the statement of claims.

IRRIGATION WATER USE (SURFACE WATER)

Description of Water Use

Current or recent use of surface waters for irrigation and diversion of water from the Little Colorado River or its tributaries to off-stream projects and storage facilities for future irrigation use.

Location and Source of Water Use

There are approximately 104,304 acres of currently or recently irrigated land using surface waters on Indian Lands in the Little Colorado River basin. Based on interpretation of aerial photos and limited field investigation, there are 69,223 irrigated acres on the Navajo Reservation and 32,893 acres on the Hopi Reservation. There are 28.5 acres claimed on San Juan Southern Paiute Lands and 2,159 acres on the Zuni Pueblo in Arizona. Water claims for these irrigated lands are tabulated by reservation in Table I.

On the Hopi and Navajo Reservations, 64,480 of future irrigated acres will be served directly from the Little Colorado River and 19,103 acres will be served from the various tributaries of the Little Colorado River. Of this acreage, 79,213 future irrigable acres are on the Navajo Reservation and 4,400 acres are on the Hopi Reservation. 703 acres on the Navajo New Lands will be irrigated from the Puerco River and Playa streams. Based on aboriginal rights, 4,270 future additional acres on the Zuni Pueblo will be irrigated from the Little Colorado, and Zuni Rivers, their tributaries, and groundwater. Water claims for these future lands are also tabulated by reservation in Table I.

Table I Irrigation Water Use (Surface Water)

Tribe	Current or Recent Irrigation Water Use (AF)	Future Additional Irrigation Water Use (AF)	Total Irrigation Water Use (AF)
Navajo	108,464	194,388	302,852
Hopi	42,937	15,780	58,717
San Juan Southern Paiute	160	0	160
Zuni	9,176	18,700	27,876
Total	160,737	228,868	389,605

EVAPORATION FROM IRRIGATION STORAGE

Description of Water Use

Evaporation from both current or recent, and planned future irrigation reservoirs.

Location of Water Use

The claims for 18 current or recent, and 13 future irrigation reservoirs on the tributaries of the Little Colorado River are located on the Navajo and Hopi Reservations. The evaporation from irrigation storage is tabulated in Table II.

Table II Evaporation from Irrigation Storage

Tribe	Current or Recent Evaporation Use (AF)	Future Additional Evaporation Use (AF)	Total Evaporation Use (AF)
Navajo	969	21,008	21,977
Hopi	186	9,359	9,545
San Juan Southern Paiute	3	3	6
Total	1,158	30,370	31,528

IRRIGATION WATER USE (GROUND WATER)

Description of Water Use

Current or recent, and future additional use of groundwater for irrigation.

Location and Source of Water Use

There are 1,287 acres of currently or recently irrigated lands using groundwater from the Indian Lands in the Little Colorado River basin. Based on interpretation of aerial photos and limited field verification, 881 acres irrigated by groundwater are on the Navajo Reservation. 289 acres are on the Hopi Reservation, 15 acres on the San Juan Southern Paiute Lands, and 371 acres on the Zuni Pueblo in Arizona. Claims for the Navajo New Lands are currently under investigation.

The future irrigable lands are served by sources underlying the Reservations. Groundwater for the Indian Reservation lands will be diverted from four aquifers: (1) N-aquifer, mainly Navajo Sandstone; (2) C-aquifer, mainly Coconino Sandstone; (3) the alluvium of the Little Colorado River; (4) D-aquifer, mainly Dakota Sandstone. Other water bearing formations may also be used.

On the Navajo and Hopi Reservations, 4,529 acres will be served by groundwater from the Little Colorado Alluvium near Leupp, and 30,072 acres of irrigable land will be served by other aquifers. There are 29,341 acres of future irrigable land that will be served by groundwater on the Navajo Reservation, 5,260 acres on the Hopi Reservation, 4,489 acres on the Navajo New Lands, and 1,732 acres on San Juan Southern Paiute Lands. Water requirements for these lands these acres are tabulated by reservation in Table III.

Table III Irrigation Water Use (Ground Water)

Tribe	Present or Current Irrigation Use (AF)	Future Additional Irrigation Use (AF)	Total Irrigation Use (AF)
Navajo*	4,962	103,574	108,536
Hopi	1,250	15,780	17,030
San Juan Southern Paiute	85	5,165	5,250
Zuni	1,577	0	1,577
Total	7,874	124,519	132,393

*-Includes Navajo New Lands

MUNICIPAL AND DOMESTIC GROUNDWATER USE

Description of Water Use

Municipal and Domestic water use is for communities, towns, villages, homesites and farmsteads.

Location and Source of water Use

The Navajo Tribe is currently compiling a recently completed inventory that, to date, has identified a total of 1,056 wells and 551 springs on the Reservation and other tribal land. An inventory of Navajo wells conducted in 1990 identified 82 public water supply systems with 159 wells. This inventory included private companies, business and trading posts, schools and missions, Navajo Tribal Utility Authority systems, and tribally operated wells.

Recently completed inventories identified 302 stock and domestic wells and 205 stock and domestic springs on the Hopi Reservation. A previous study identified 23 additional Hopi public water supply wells.

There are 45 wells and springs on the San Juan Southern Paiute Lands. Of these, at least 40 have stock use, 35 have domestic use and 9 have irrigation use. The Zuni Reservation has 10 wells and springs. Of these, 5 have stock use, 6 have domestic use, 2 have irrigation use and several have religious use. The White Mountain Apache Reservation has 2 wells with municipal, domestic, commercial and industrial, and recreational uses. An inventory of wells and springs for domestic, municipal and stock uses is provided in Table IV.

Future additional municipal and domestic uses will occur throughout the Reservations by expanding the present communities and by changing from water hauling practices to the public water supply systems. The future water demand for the Navajo, Hopi, and San Juan Southern Paiute is based on the population projections to 2040.

The sources of water for both present and future use is ground water in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations. The municipal and domestic uses by Reservation are listed in Table V.

Table IV Inventory of Wells and Springs

Tribe	Wells & Springs
Navajo	1,607
Hopi	507
San Juan Southern Paiute	45
White Mountain Apache	2
Zuni	10
Total	2,171

Table V Municipal and Domestic Water Use

Tribe	Present Domestic Use (AF)	Future Additional Use (AF)	Total Use (AF)
Navajo	10,481	25,199	35,680
Hopi	1,793	4,367	6,160
San Juan Southern Paiute	36	88	123
White Mountain Apache	323	777	1,100
Zuni	24	59	83
Total	12,657	30,490	43,146

RECREATION WATER USE

Description of Water Use

Present recreation water use is for camping, fishing and evaporation from lakes and reservoirs. Proposed additional future water uses include additional lakes and related facilities on the Reservations.

Location and Source of Water Use

The recreational water sources are located on all the Reservations. The sources of water for recreational uses are the watersheds tributary to the lakes and reservoirs. The Navajo Reservation has 58 current, and 4 future lakes and reservoirs. The Hopi Reservation has 4 current, and 3 future lakes and reservoirs. There are two wells on the White Mountain Apache Reservation which also serve recreational uses.

Table VI Recreational Water Use

Tribe	Present Recreational Use (AF)	Future Recreational Use (AF)	Total Recreational Use (AF)
Navajo	2,236	227	2,463
Hopi	80	151	231
White Mountain Apaches	162	26	188
Total	2,478	404	2,882

RELIGIOUS WATER USES

Description

The Zuni Pueblo in Arizona has current and recent use of water for religious purposes near the confluence of the Little Colorado and Zuni Rivers (Zuni Heaven). The source of water is surface water from the Little Colorado River and its tributaries, lakes and springs, and groundwater.

Location and Source of Water Use

The Pueblo of Zuni has used the Zuni Reservation in Arizona, known as Kolhu/wala:wa or "Zuni Heaven" for traditional religious purposes since time immemorial. The uses associated with the area include traditional religious and cultural uses requiring sufficient water to restore and maintain the lakes, springs and riparian habitat. The total water use is currently under investigation and this claim will be supplemented upon completion of such investigation.

STOCK WATER USE

Description of Water Use

Stock water use is based on an estimated average volume and a single annual fill of the stockponds. This volume includes, among other losses, losses due to evaporation and stock water use.

Location and Source of Water Use

The Navajo Nation is currently compiling a recently completed inventory that has, to date, identified 2,422 stockponds on the Navajo Reservation and other tribal land. An additional 535 stockponds on the Hopi Reservation have been investigated or mapped. 29 stockponds are located on the Zuni Pueblo and 22 are on the San Juan Southern Paiute Land.

Additional future stockpond usages will be located throughout the Reservations.

The sources of water for both present and future stock water purposes is ground water present in various aquifers and water-bearing rocks and deposits that are located throughout the Reservations. Water can also come from surface runoff. The stockpond facilities are summarized in Table VII

Table VII Stockpond, Lake and Reservoir Water Use

Tribe	Stockpond Use (AF)	Future Stockpond Use (AF)	Total Stockpond Use (AF)
Navajo	20,829	675	21,504
Hopi	4,601	176	4,777
San Juan Southern Paiute	189	12	201
Zuni	249	10	259
Total	25,868	873	26,741

INDUSTRIAL WATER USE

Description of Water Use

Water consumed for processing, light industries, steam power plant cooling and other miscellaneous industrial applications.

Location and Source of Water Use

The sources for present and future additional industrial water use are primarily the N-aquifer (mainly Navajo Sandstone) and the C-aquifer (Coconino Sandstone). Other aquifers throughout the Reservations may provide water for industrial applications. The Navajo Nation has 338 wells with industrial use. Both of the White Mountain Apache wells serve industrial uses. The industrial water uses are presented in Table VIII.

Table VIII Industrial Water Use

Tribe	Present Industrial Use (AF)	Future Additional Use (AF)	Total Industrial Use (AF)
Navajo	129	31,970	32,099
Hopi	0	1,102	1,102
White Mountain Apache	162	0	162
Total	291	33,072	33,363

MINING WATER USE

Description of Water Use

Water consumption for pipeline slurry, dust control, construction, potable purposes, evaporation from sedimentation ponds and related mining activities.

Location and Sources of Water Use

The location of present mining uses are at the Peabody Coal Company mine on Black Mesa. Future mining activities may be located throughout the Reservations. Additional future uses will result from development of future sedimentation ponds which will be located at or near future mining sites. There are 56 wells on the Navajo Reservation which serve mining uses. The current and future uses on the Navajo and Hopi reservations are listed in Table IX.

Sources of mining water use will be primarily from the N-Aquifer (mainly Navajo Sandstone) and C-Aquifer (mainly Coconino Sandstone). However, groundwater in other aquifers and water bearing rocks and deposits may be used. Additional water is derived from surface runoff.

Table IX Mining Water Use

Tribe	Present Mining Use (AF)	Future Mining Use (AF)	Total Mining Use (AF)
Navajo & Hopi	8,449	11,065*	19,514
Total	8,449	11,065	19,514

*-Aggregated from the 1985 SOC (39-00-91441)

MAPS

Photo-Interpreted Existing & Historic Irrigated Lands

Cameron

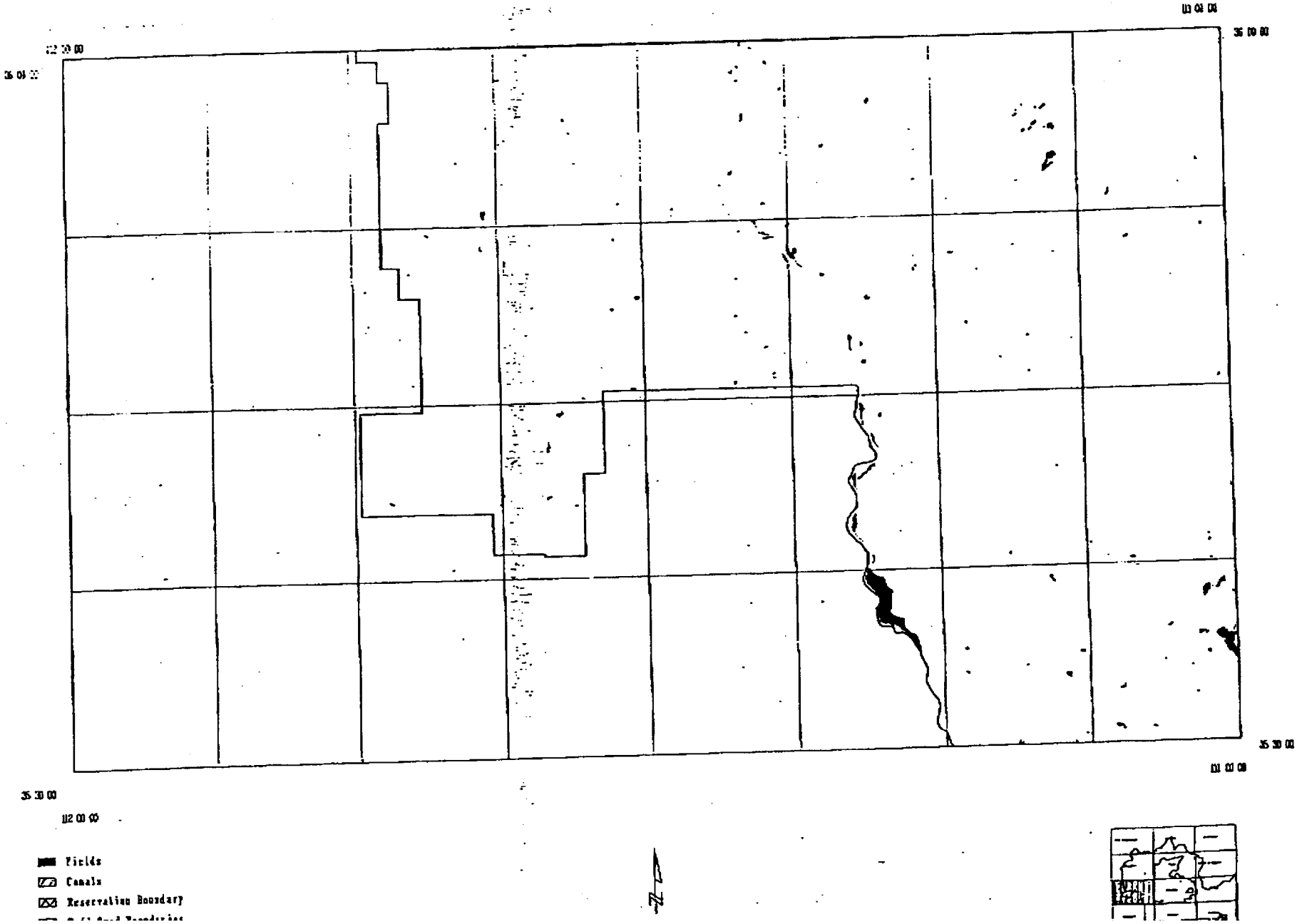


Photo-Interpreted Existing & Historic Irrigated Lands

Canyon de Chelly

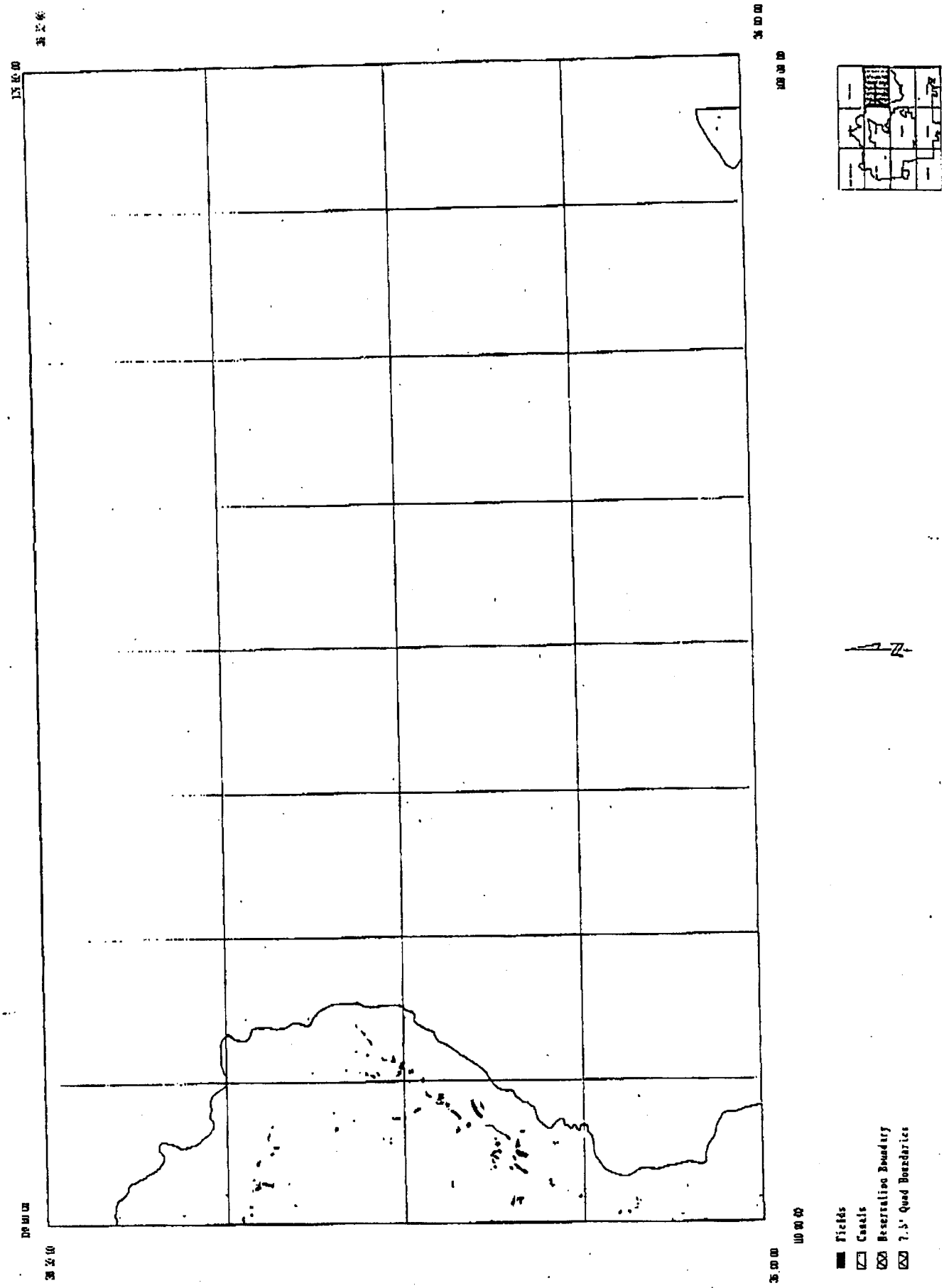
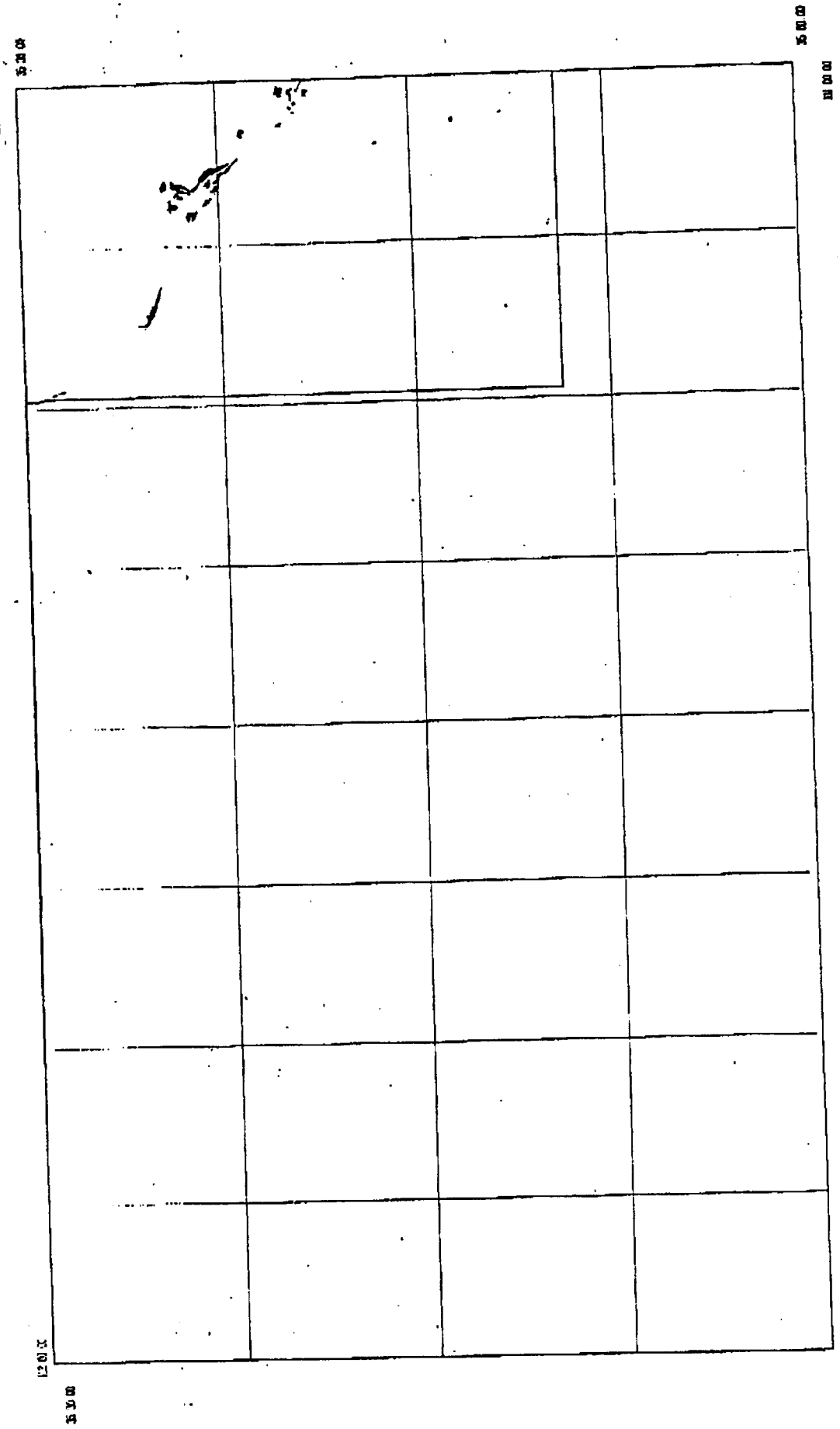
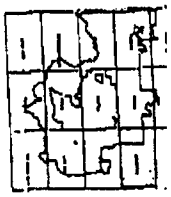


Photo Interpreted Existing and Historic Irrigated Lands - Canyon de Chelly

Photo-Interpreted Existing Historic Irrigated Lands

Flagstaff



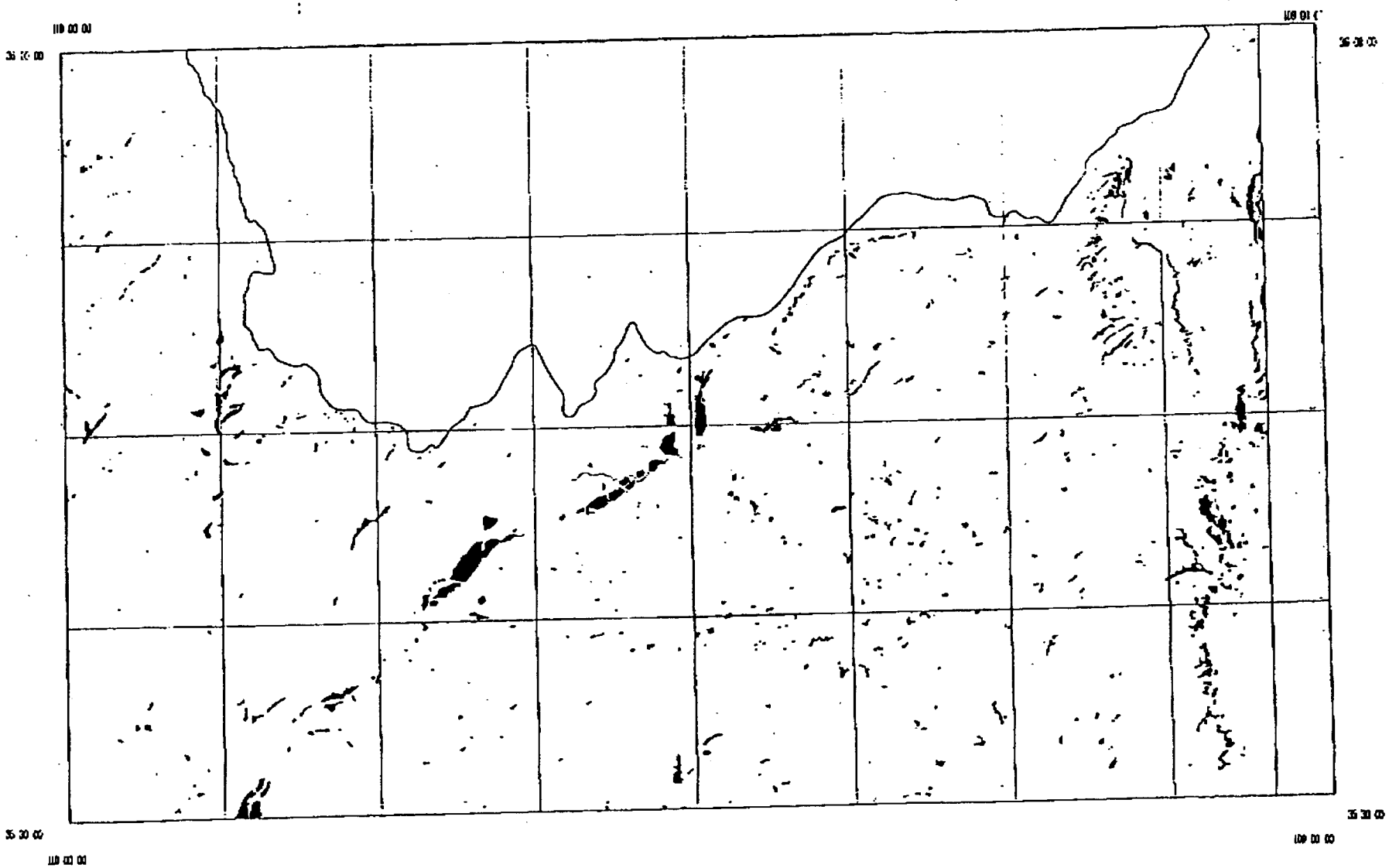


Fields
Canals
Reservation Boundary
7.5' Quad Boundaries

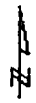
[illegible] Historic Irrigated Lands - Flagstaff

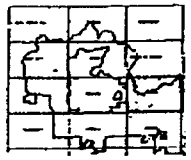
Photo-Interpreted Existing Historic Irrigated Lands

Ganado



- Fields
- Canals
- Reservation Boundary
- 7.5' Quad Boundaries





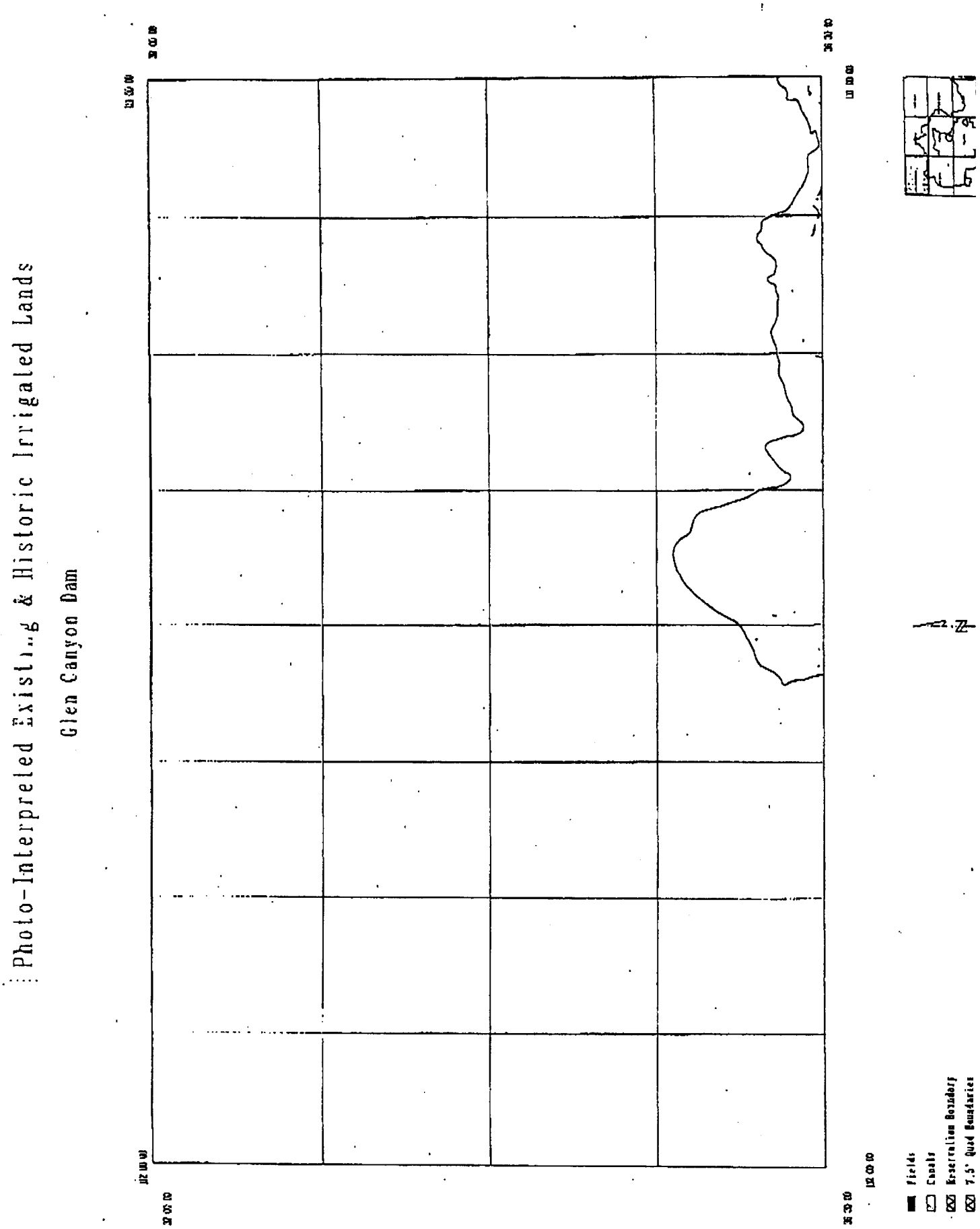
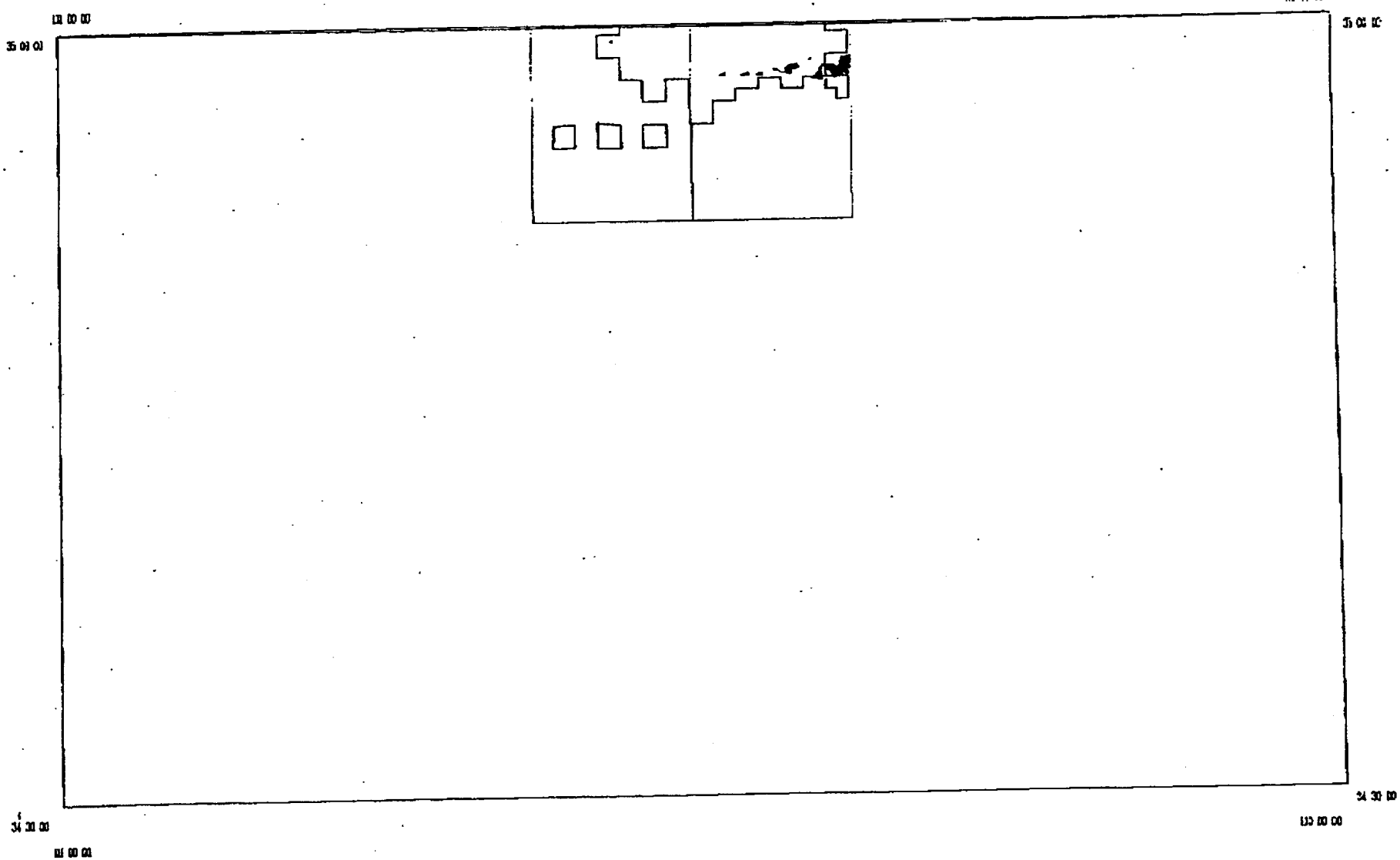


Photo Interpreted Existing and Historic Irrigated Lands - Glen Canyon Dam

Photo-Interpreted Existing & Historic Irrigated Lands

Holbrook



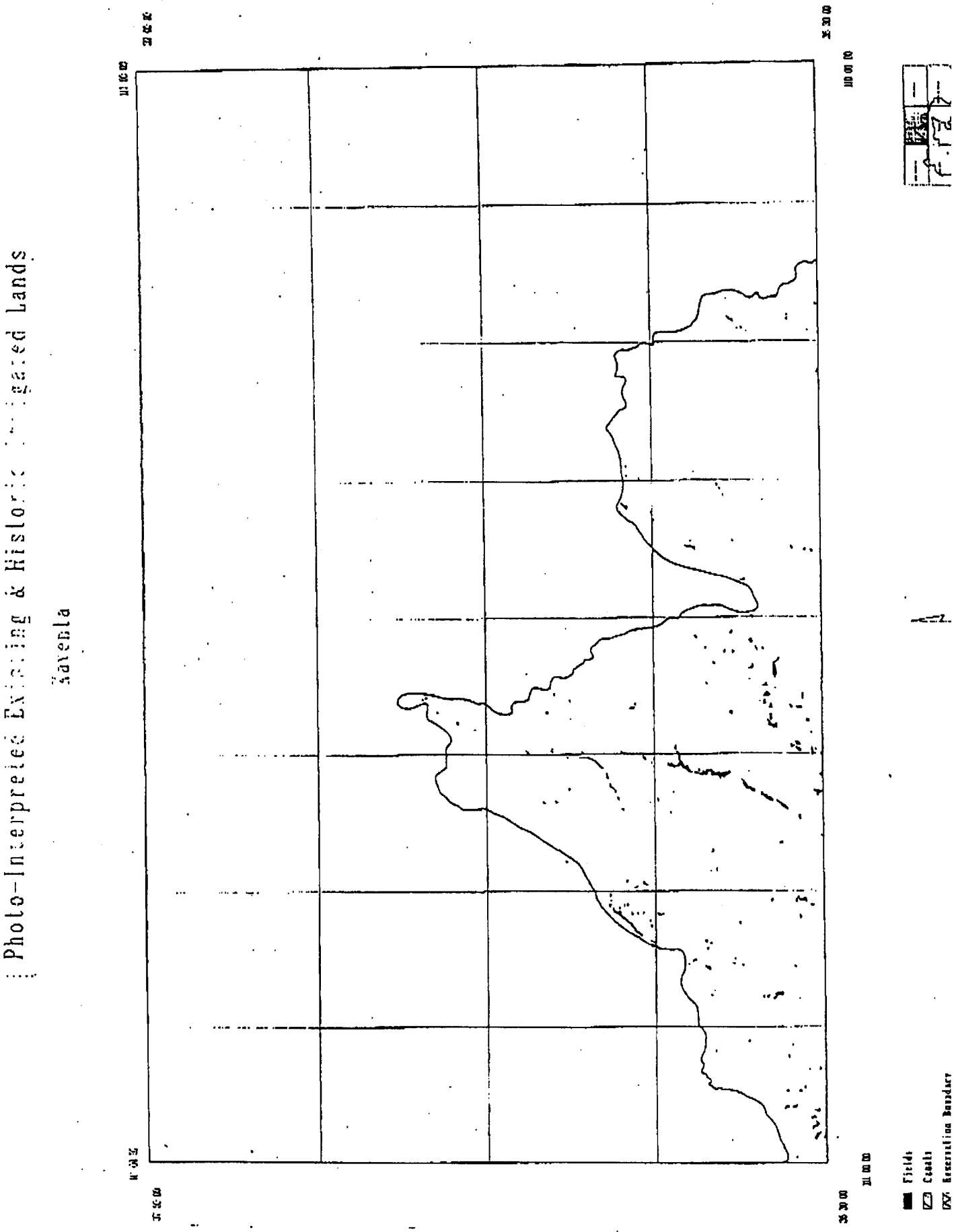


Photo Interpreted Existing and Historic Irrigated Lands - Kayenta

Photo-Interpreted Existi & Historic Irrigated Lands

Pinon

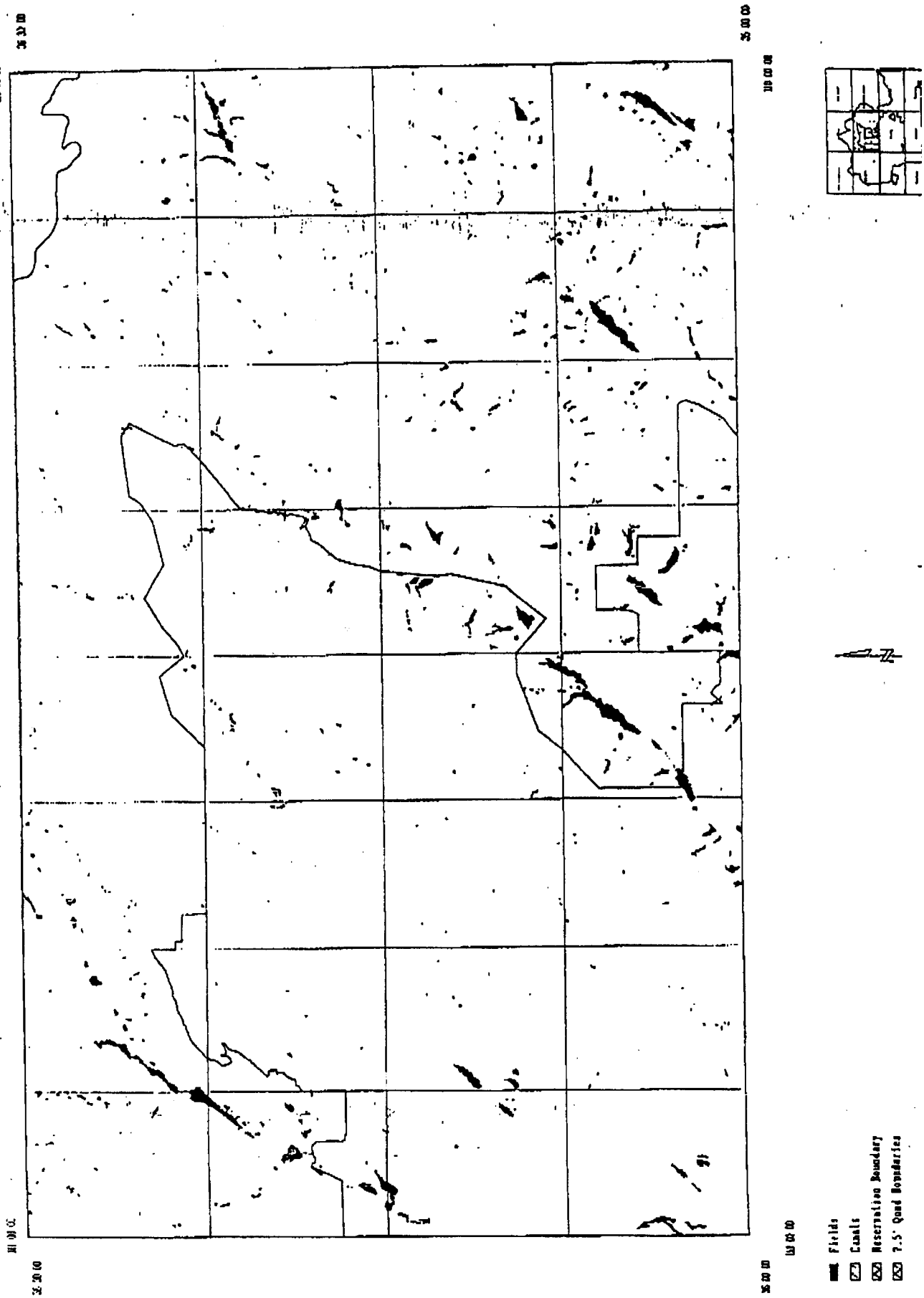


Photo Interpreted Existing and Historic Irrigated Lands - Pinon

Photo-Interpreted Existing Historic Irrigated Lands

Polacca

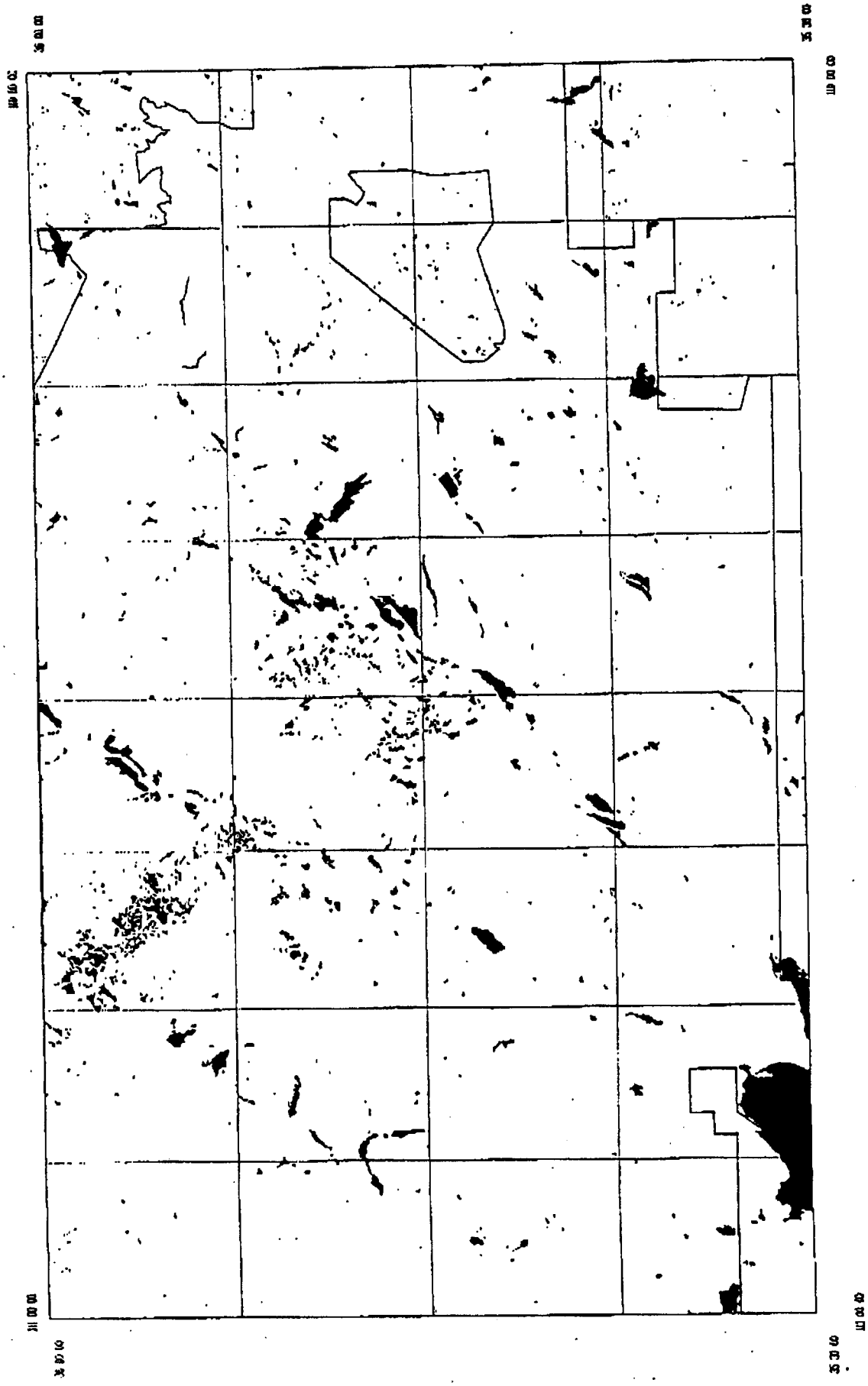


Photo-Interpreted Existing & Historic Irrigated Lands

Sanders

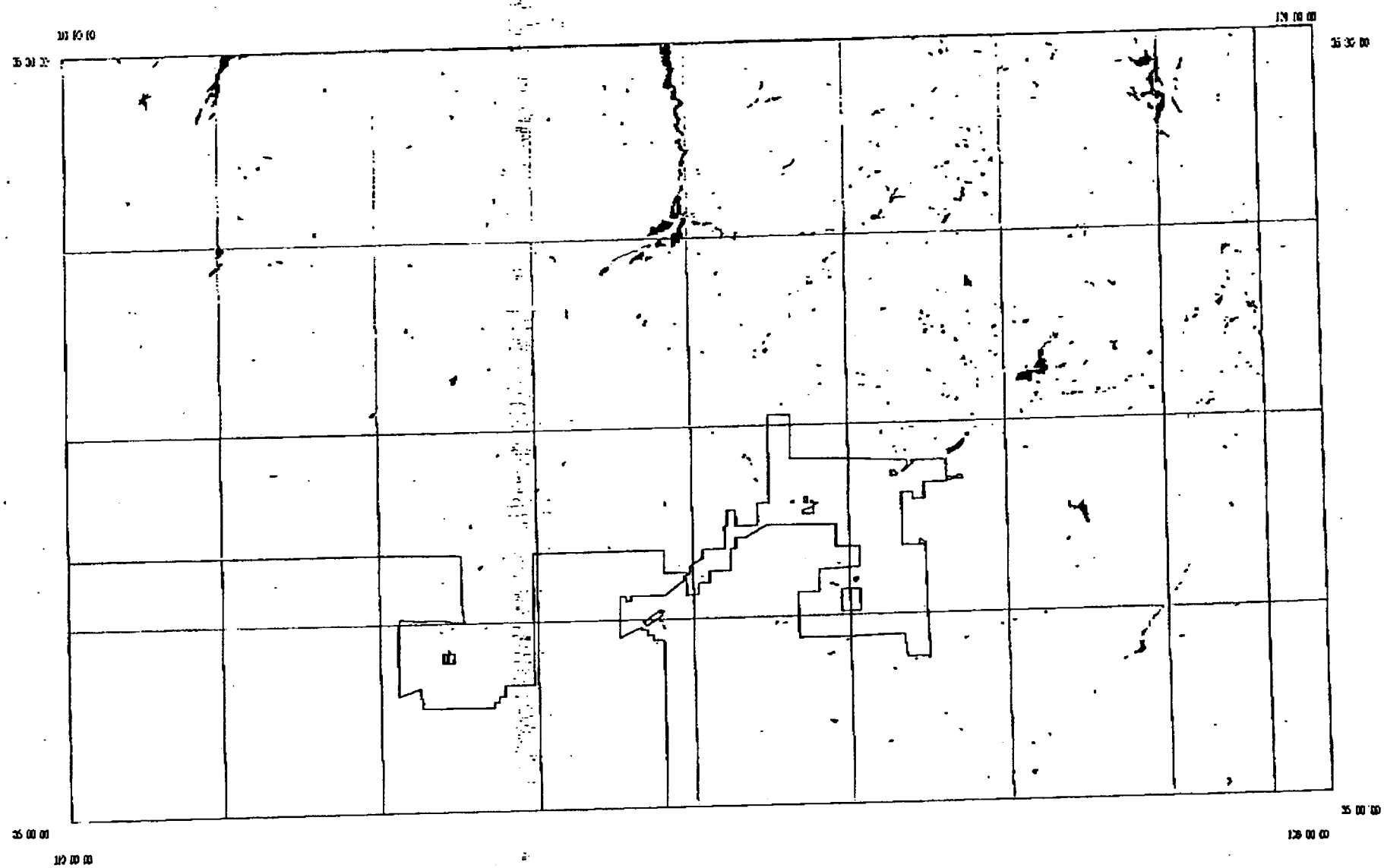


Photo-Interpreted Existing & Historic Irrigated Lands

St. Johns

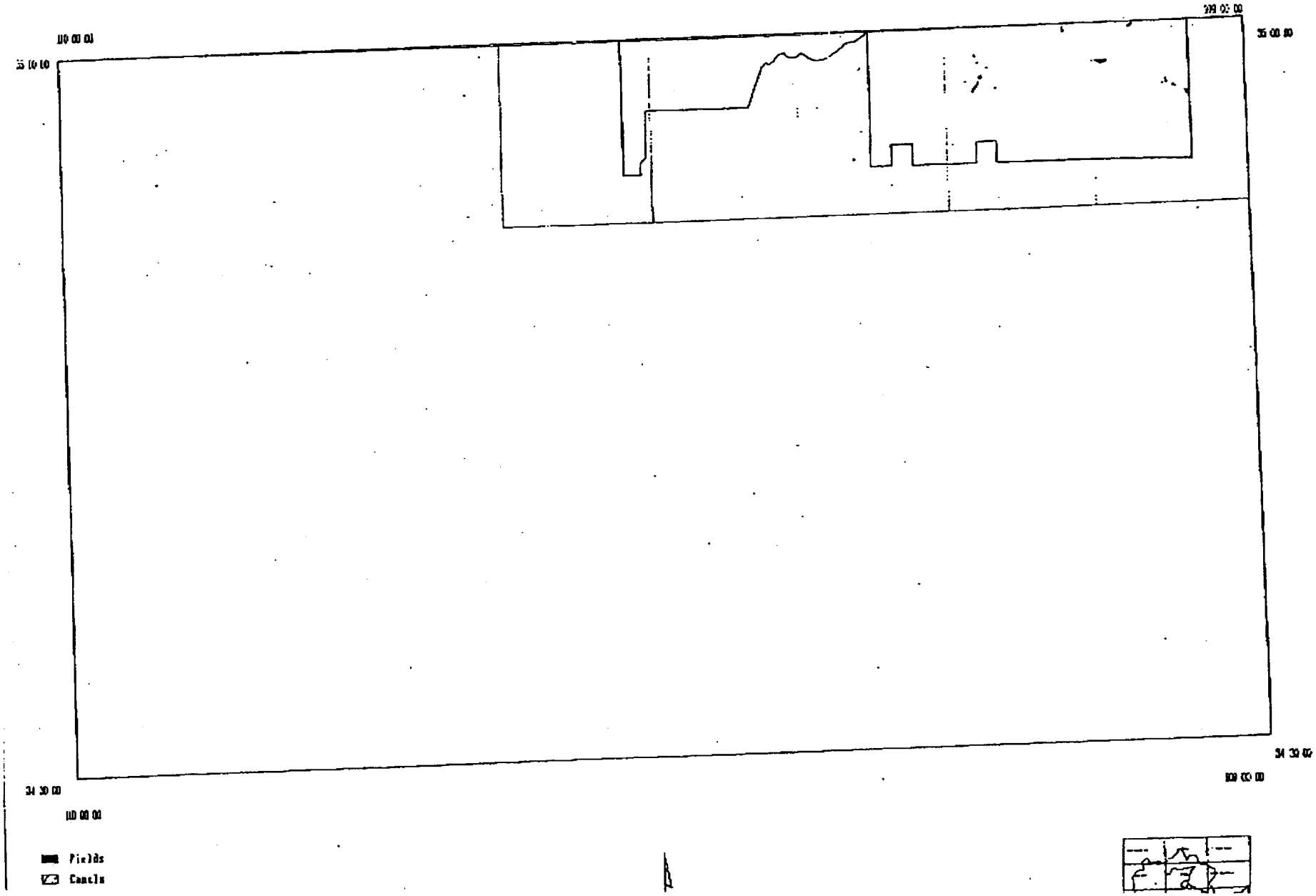
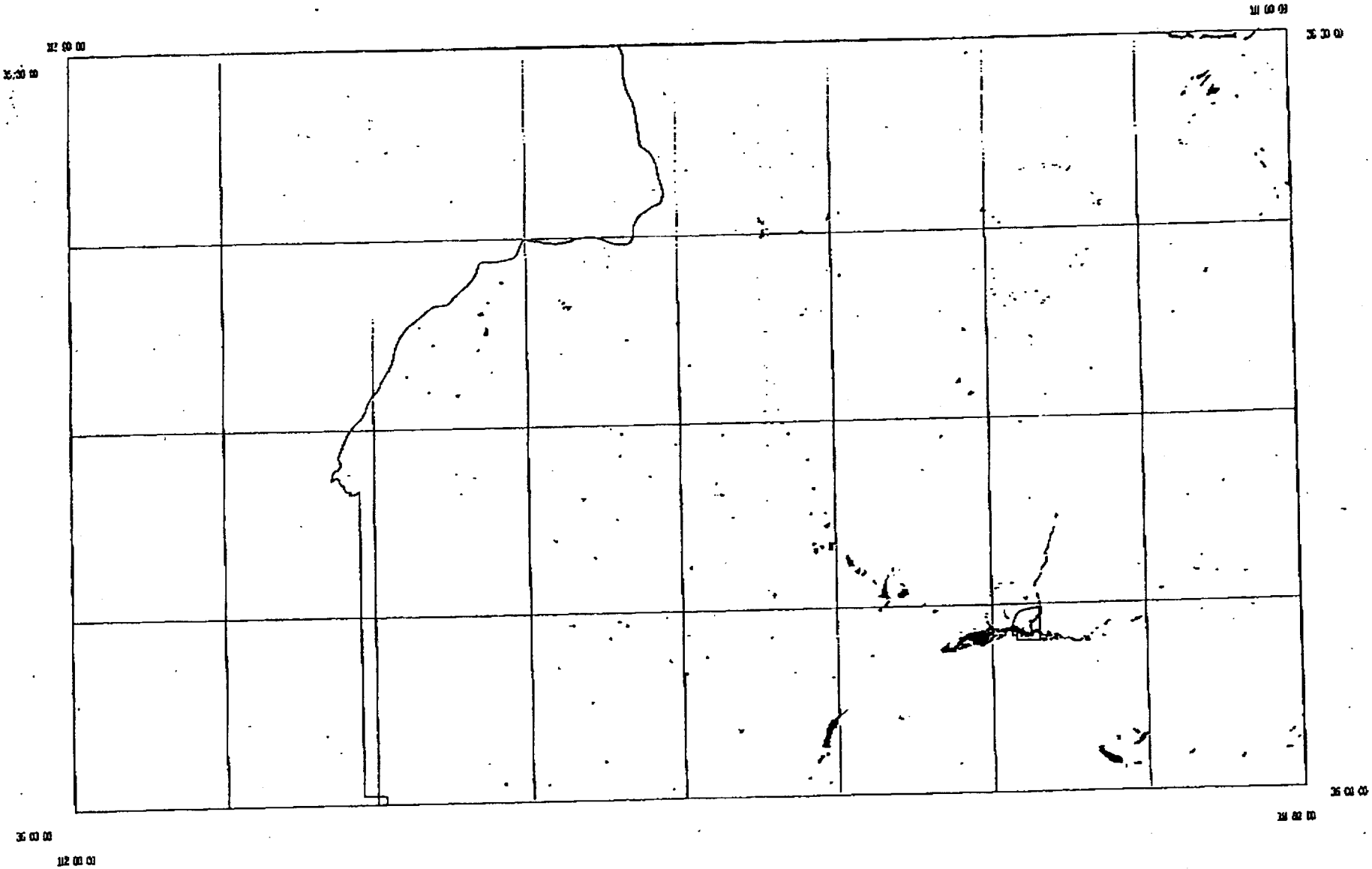


Photo-Interpreted Existing Historic Irrigated Lands

Tuba City



Fields
Canals
Reservation Boundary
7.5' Quad Boundaries

N

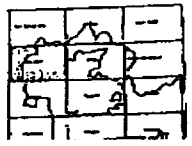
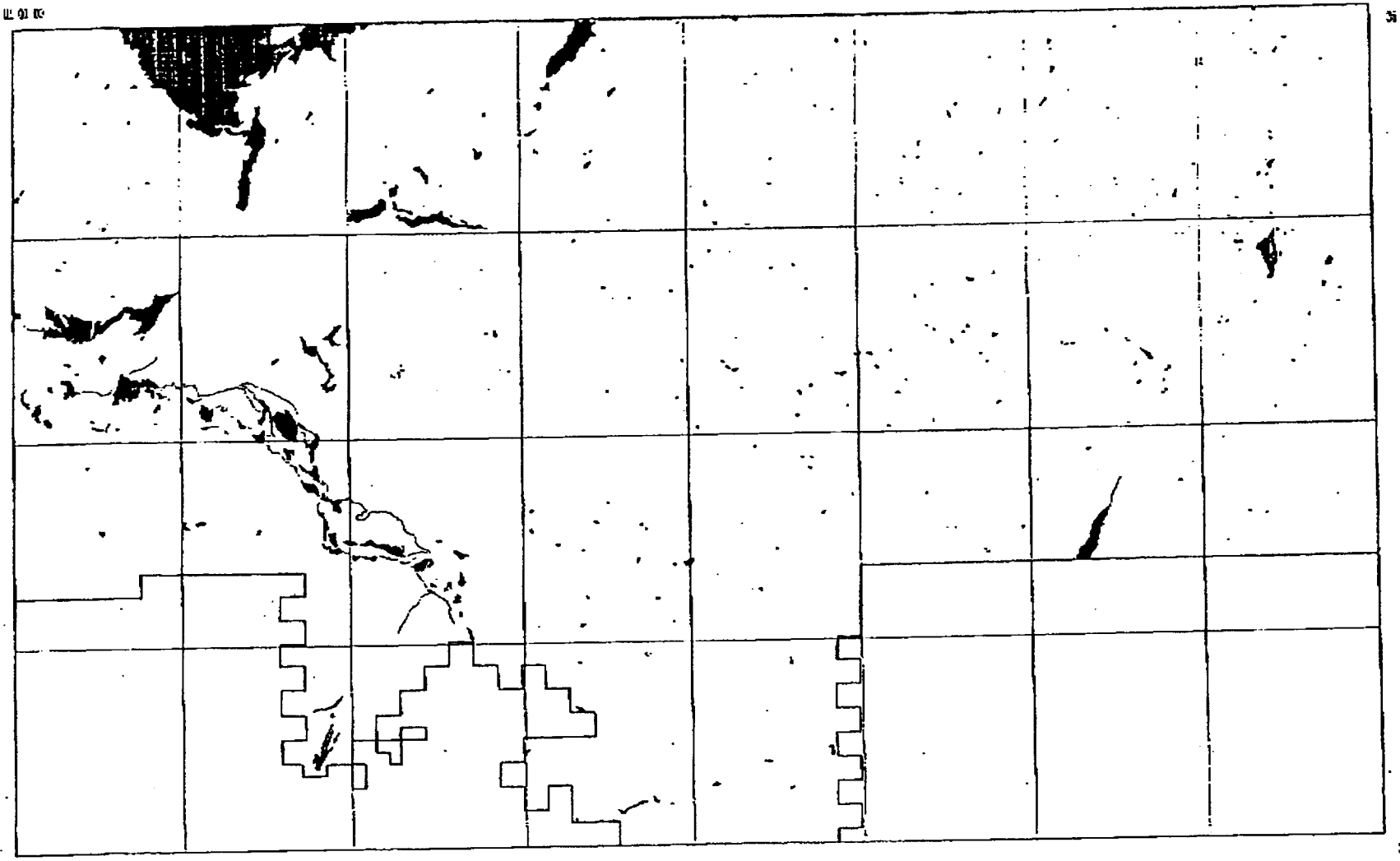
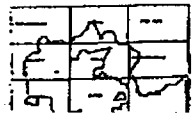


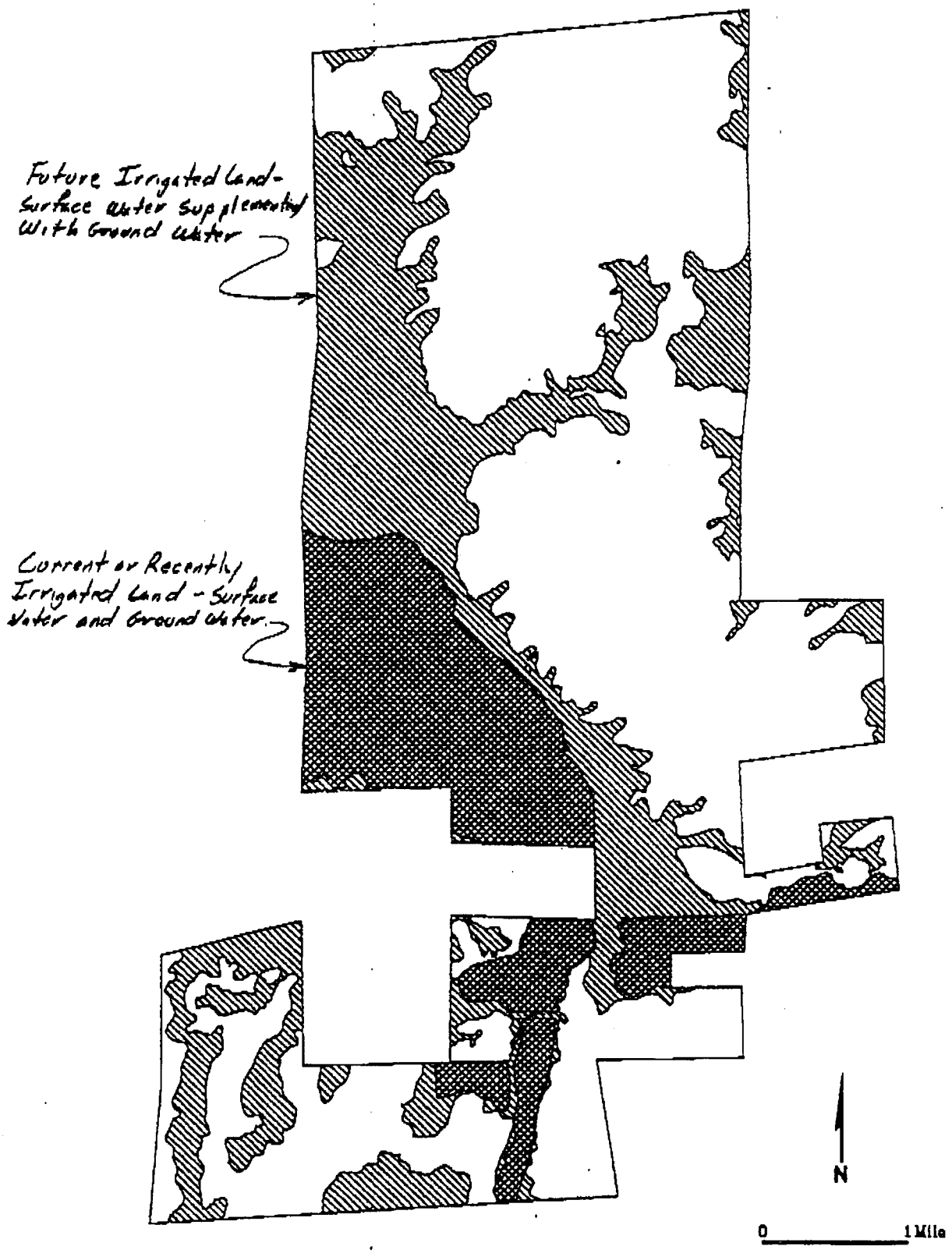
Photo-Interpreted Existing & Historic Irrigated Lands

Winslow



Fields
Canals
Reservation Boundary
T.S. Bur. Boundaries




Future Irrigated Land - Surface water supplemented with Ground water
Current or Recently Irrigated Land - Surface water and Ground water
N
0
1 Mile

A copy of the foregoing United States Statement of Amended Claims mailed this 23rd day of November, 1994, to all parties on the Court-approved mailing list dated November 10, 1994.

Gail P. Robinson

Gail P. Robinson

DEPARTMENT OF
WATER RESOURCES
99 E. VIRGINIA
PHOENIX, ARIZONA 85004

RECEIVED
DEC - 9 1993
ADJUDICATIONS

MAPS for FILE # 39-91441

NAVAJO & HOPI TRIBES

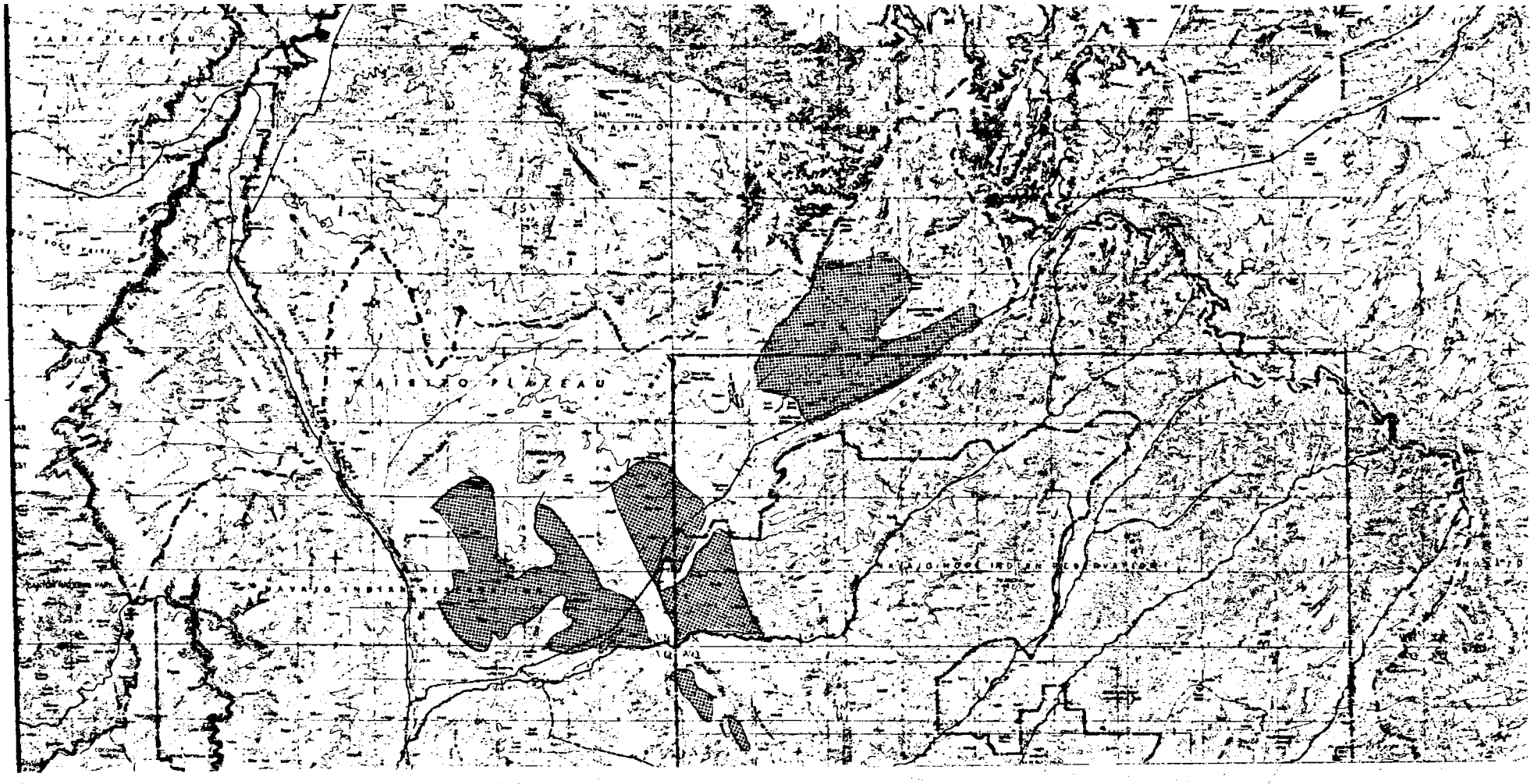
4 maps enclosed

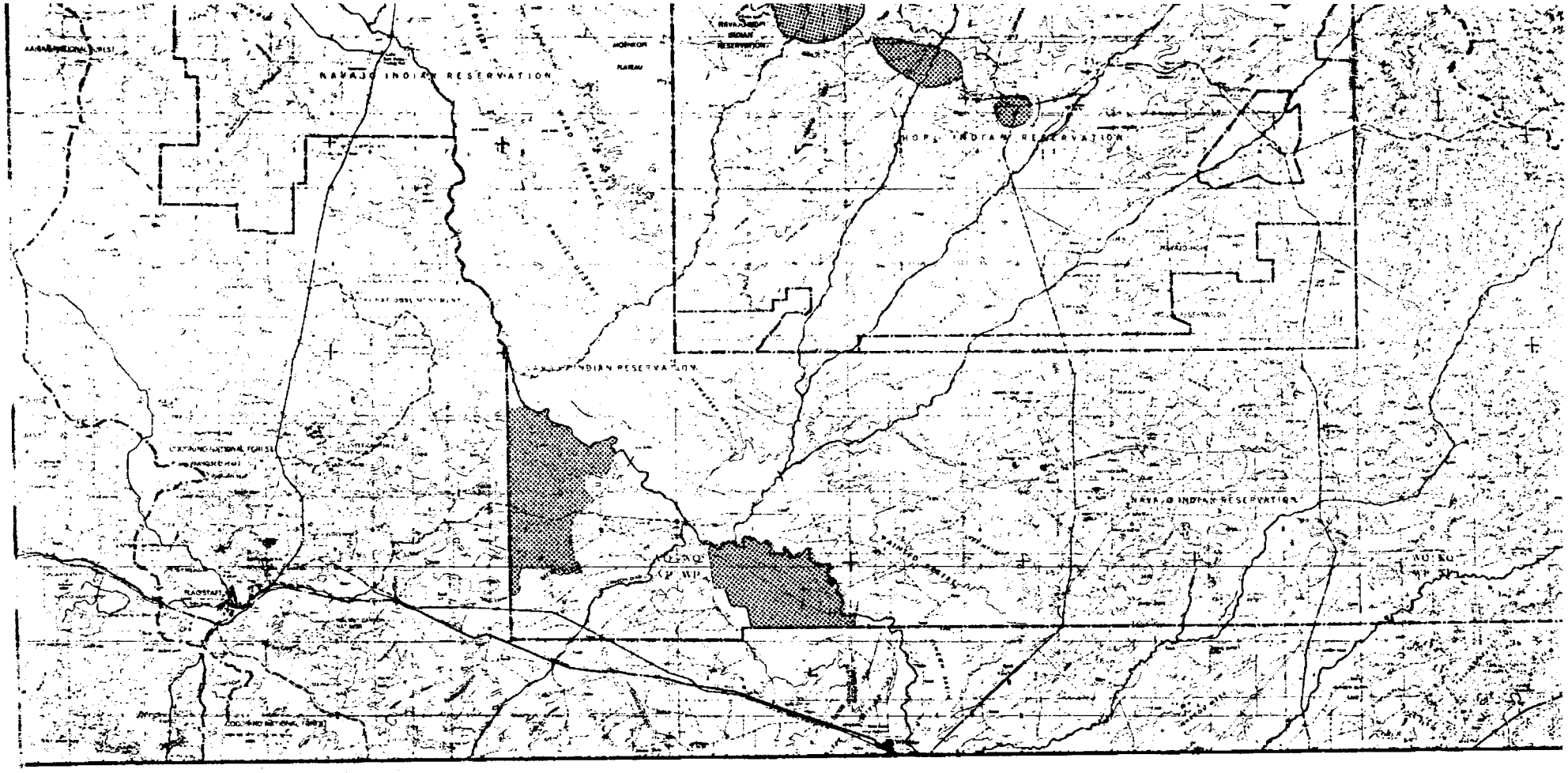
These are the only maps I have for 39-91441

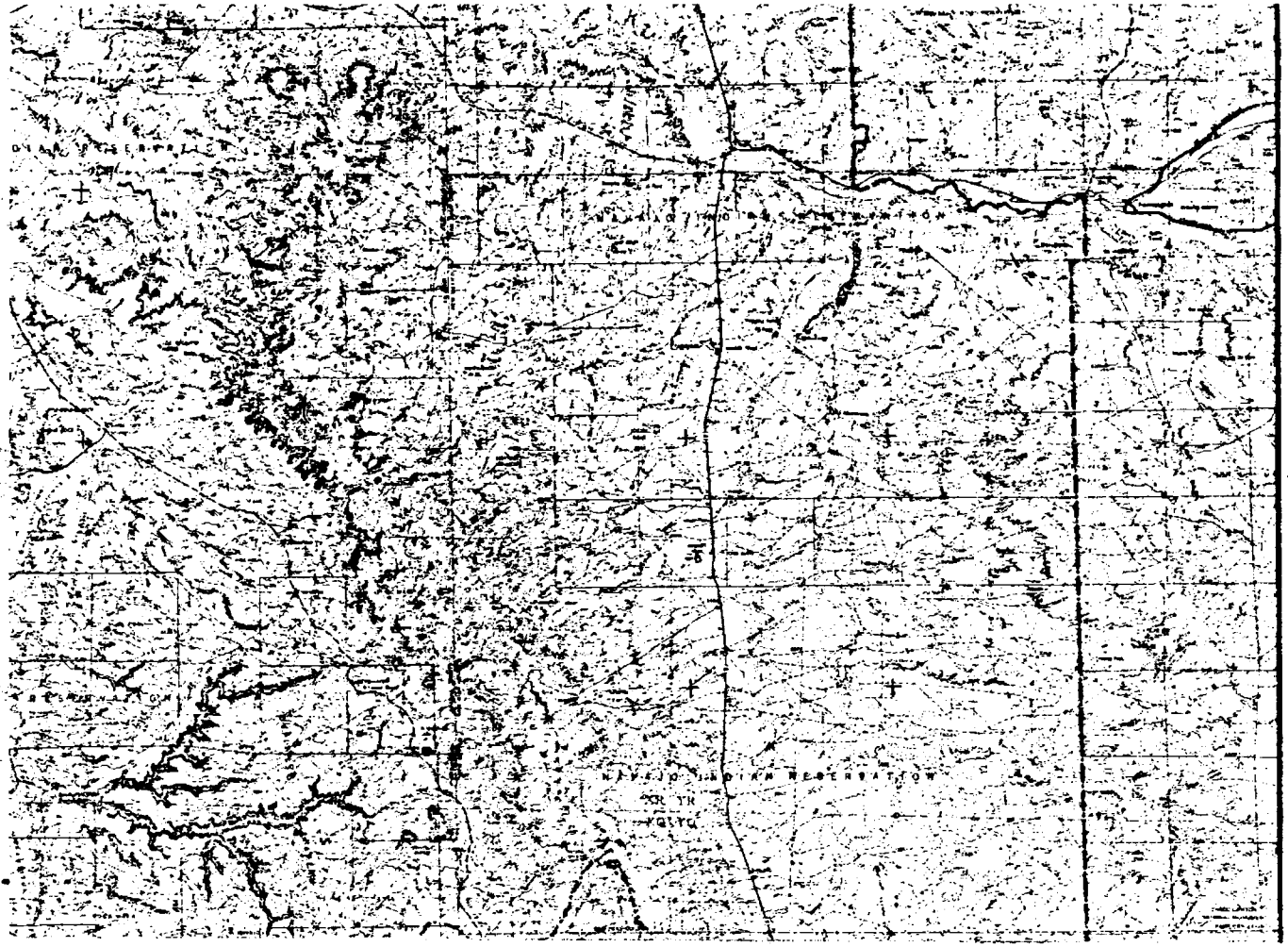
I find nothing for 91442 -

Hope you can read these ok.

Zita Hill -


NAVAJO PLATEAU


NAVAJO INDIAN RESERVATION
HOPI INDIAN RESERVATION
NAVAJO INDIAN RESERVATION

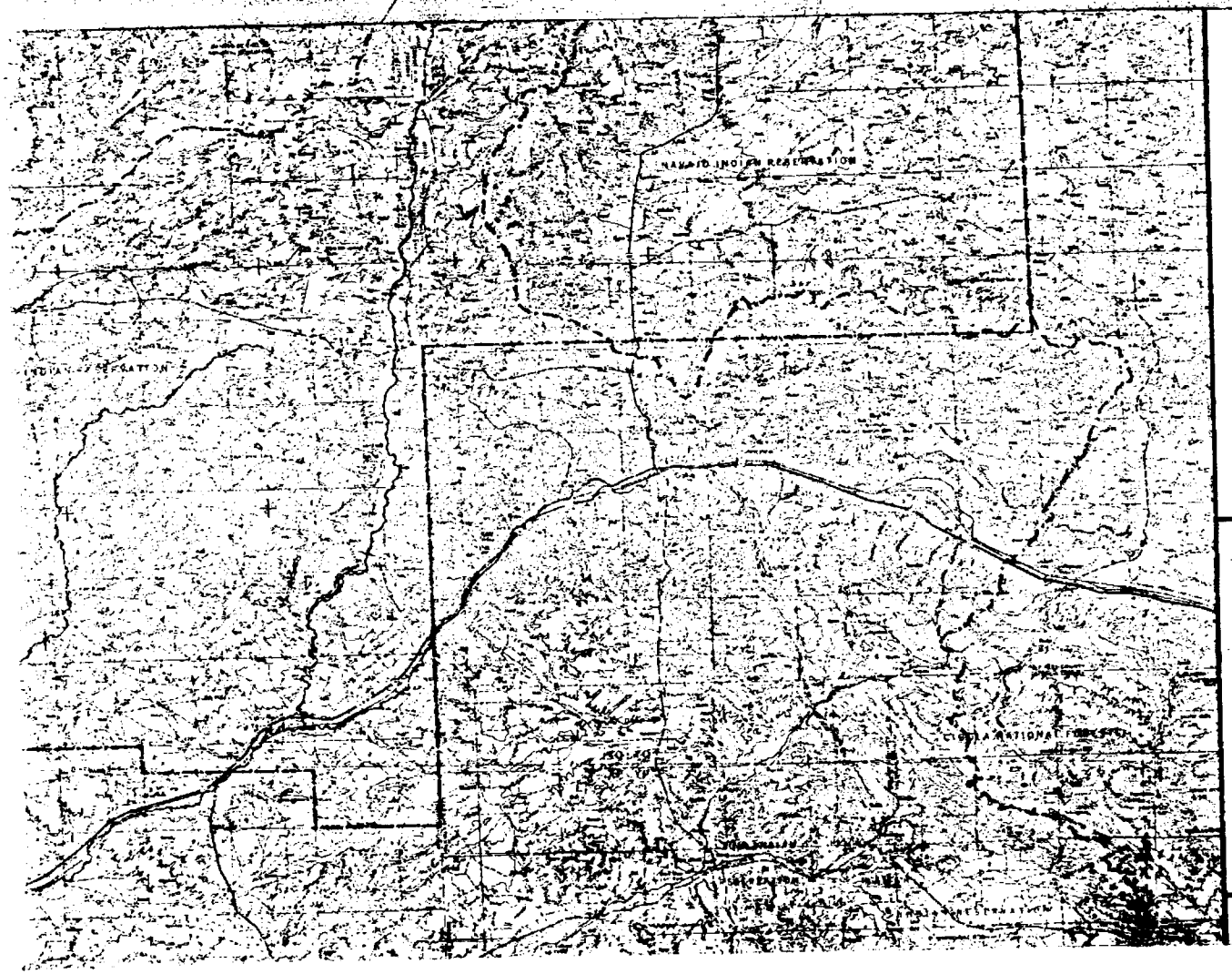


LEGEND

Little Colorado River Basin Drainage Boundary

Reservation Boundary

Potentially Irrigable Land

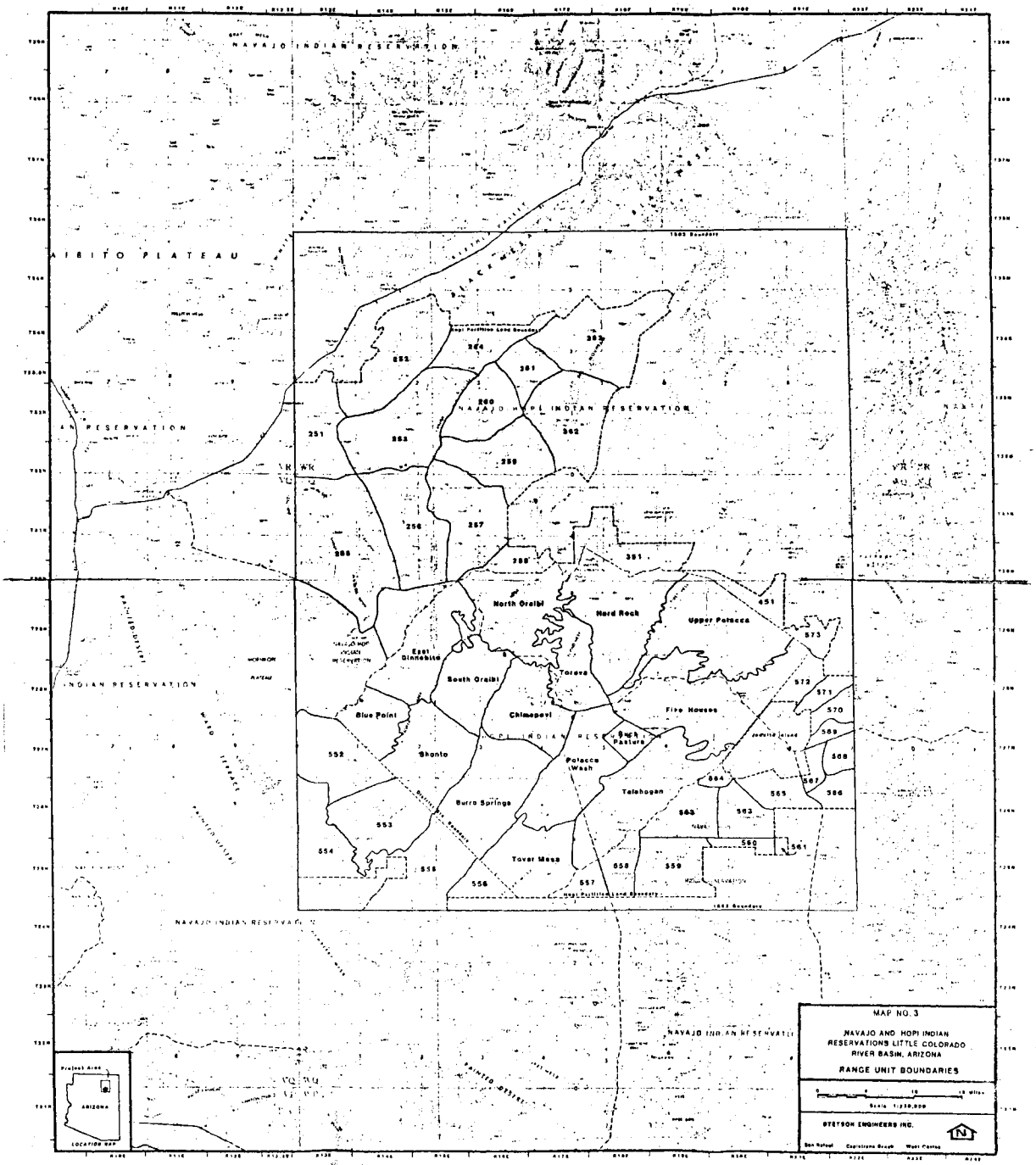


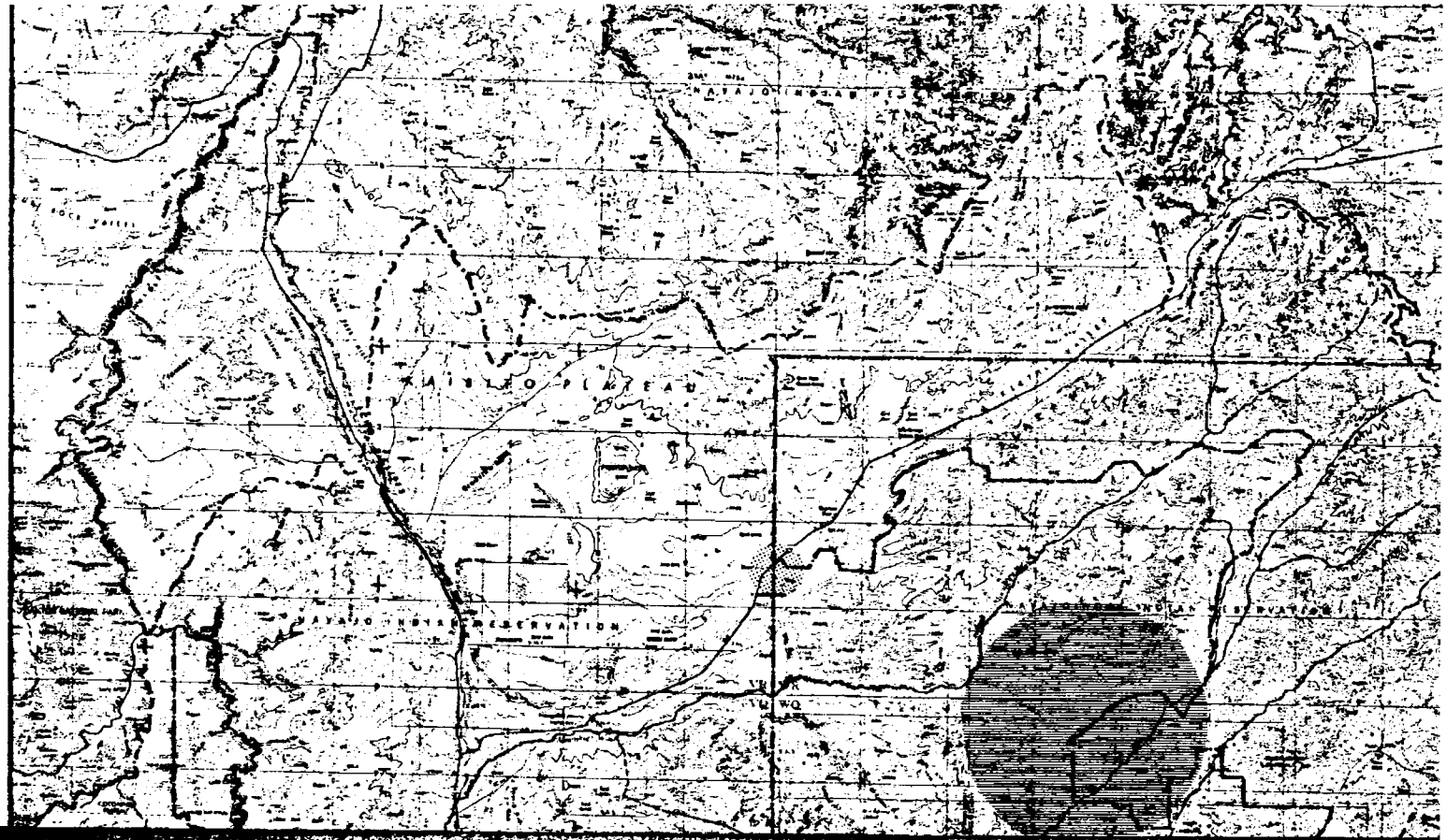
MAP NO. 2

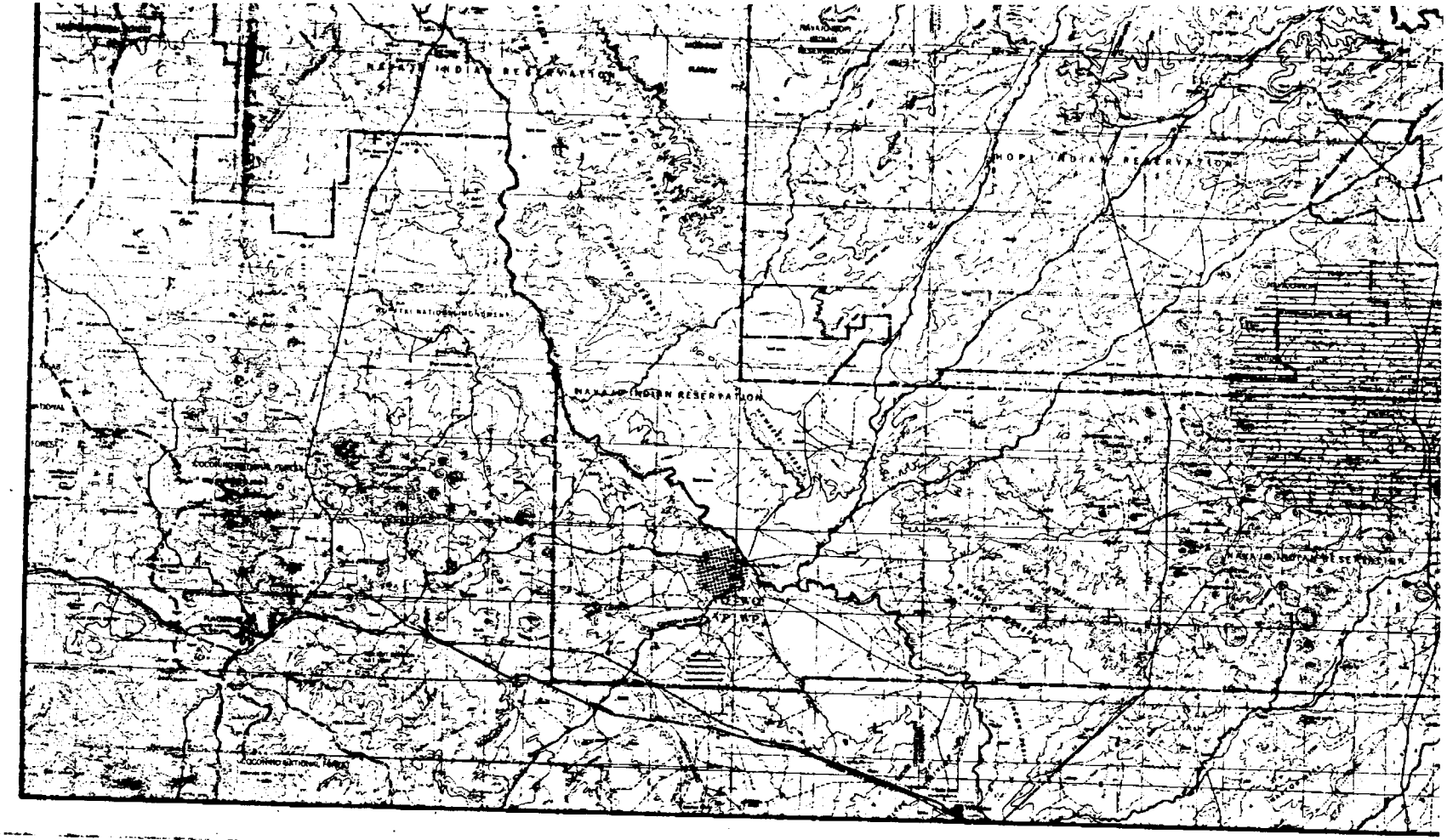
NAVAJO AND HOPI INDIAN RESERVATIONS LITTLE COLORADO RIVER BASIN, ARIZONA

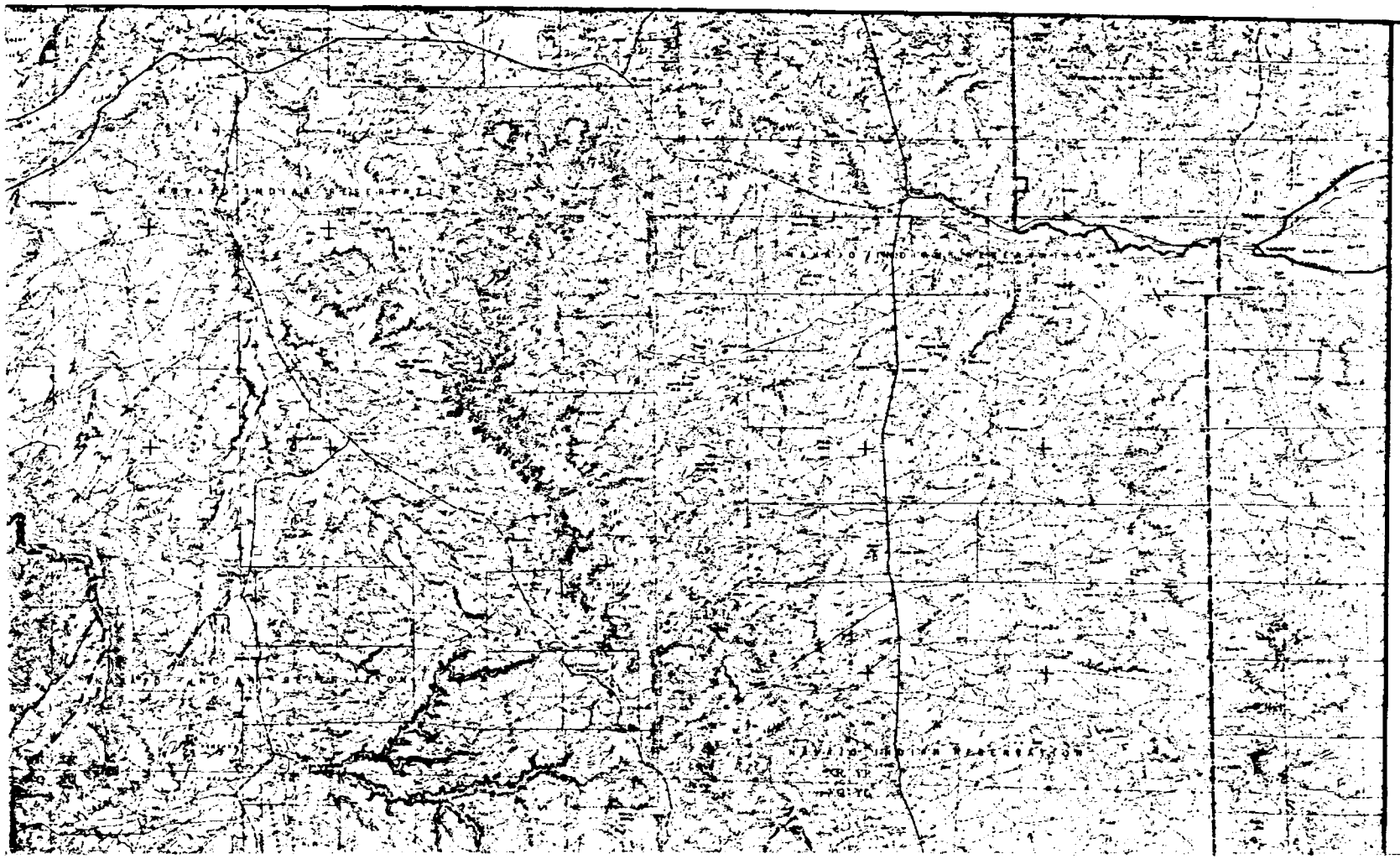
PROPOSED GROUND WATER IRRIGATION DEVELOPMENT PLAN

STETSON ENGINEERS INC.


NAVAJO INDIAN RESERVATION
AIBITO PLATEAU
NAVAJO HOPI INDIAN RESERVATION
INDIAN RESERVATION
North Oraibi
Hard Rock
Upper Polacca
East Dinnebito
South Oraibi
Toreva
Blue Point
Chimaopovi
Fire Houses
Shonto
Polacca Wash
Talahogan
Burro Springs
Tovar Mesa
NAVAJO INDIAN RESERVATION
Project Area
ARIZONA
LOCATION MAP
MAP NO. 3
NAVAJO AND HOPI INDIAN
RESERVATIONS LITTLE COLORADO
RIVER BASIN, ARIZONA
RANGE UNIT BOUNDARIES
STETSON ENGINEERS INC.


NAVAJO NATION
HAVASU
NAVAJO INDIAN RESERVATION
WQ


NAVAJO INDIAN RESERVATION
HOPI INDIAN RESERVATION
NAVAJO INDIAN RESERVATION
NAVAJO INDIAN RESERVATION
NAVAJO NATIONAL MONUMENT
COCONINO NATIONAL FOREST
COCONINO NATIONAL FOREST
WINDOW ROCK
AP WP



LEGEND

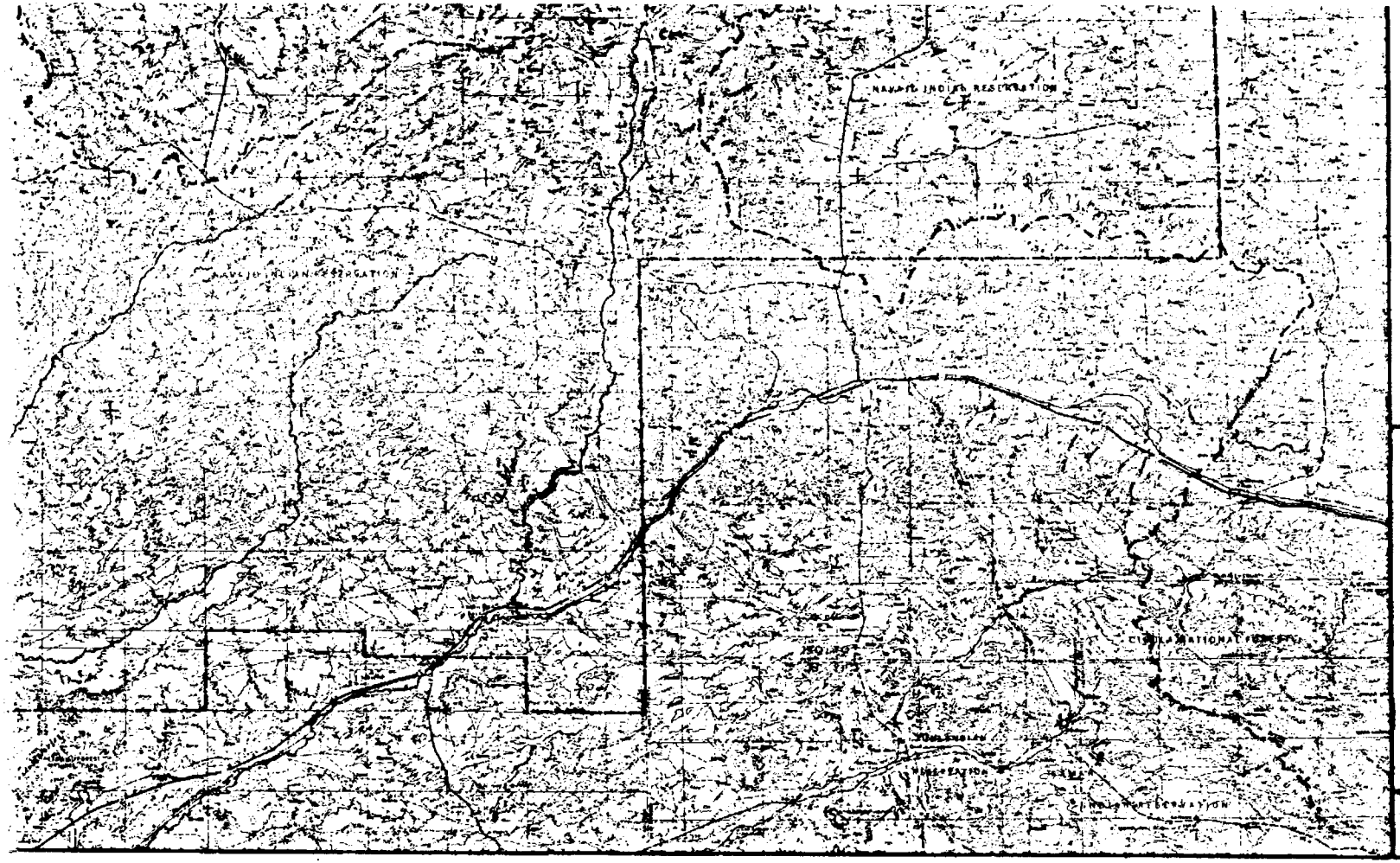
Little Colorado River Divide Boundary

Coal Fired Power Pla

Coal Mine and Slurry

Potatoe Processi

Vegetable Canning
Beef Packing



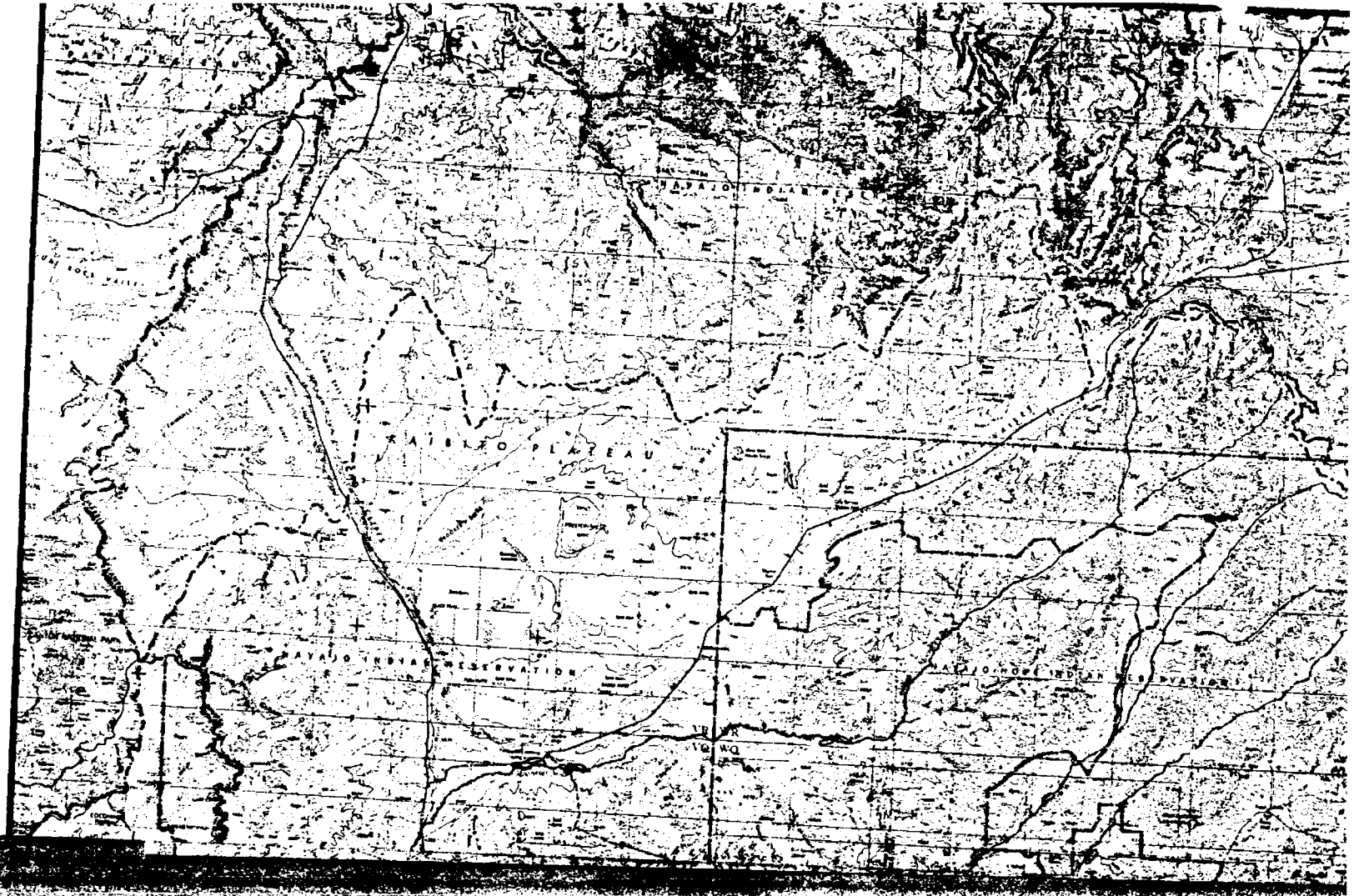
MAP NO. 4

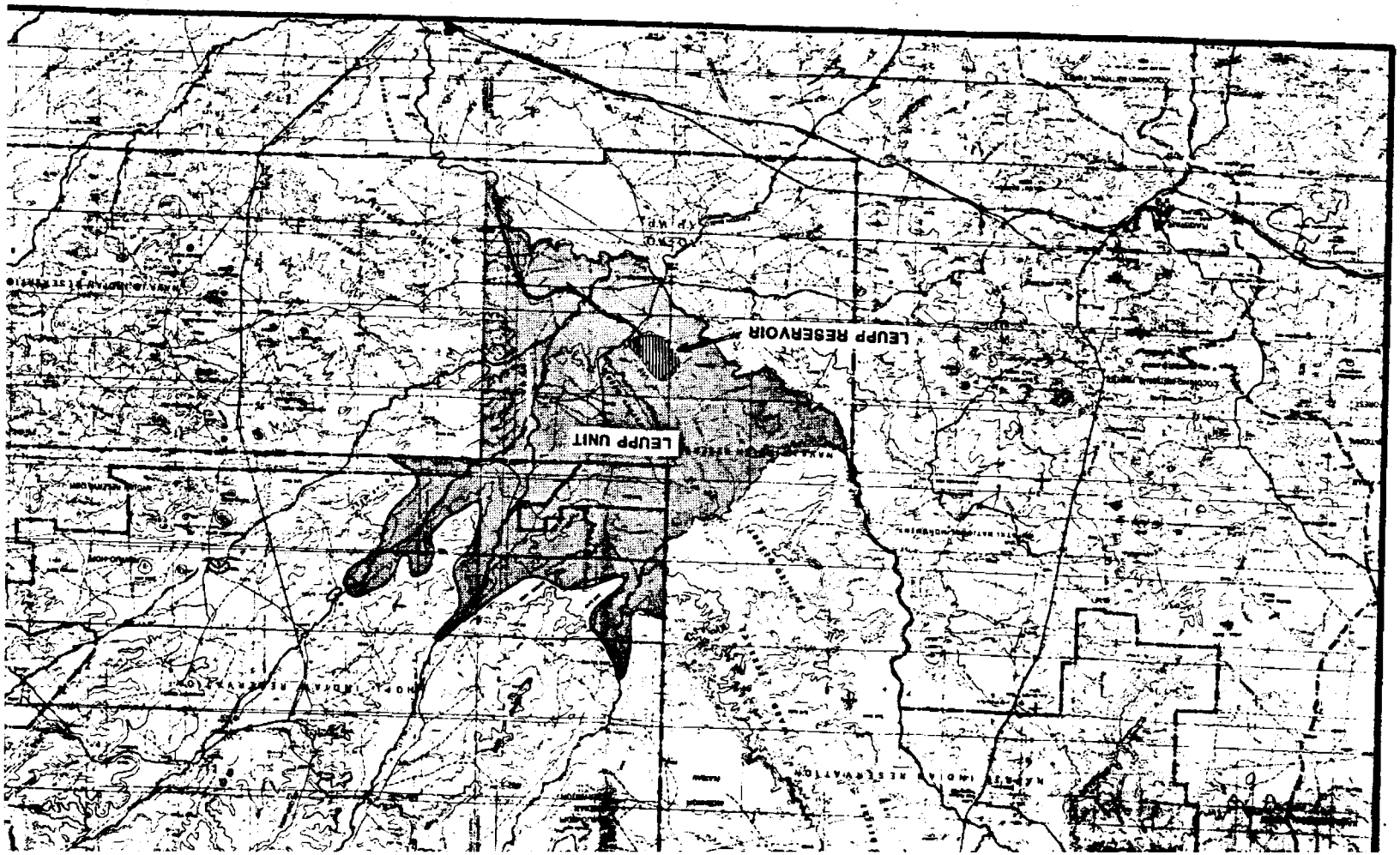
NAVAJO AND HOPI IND
RESERVATIONS LITTLE CO
RIVER BASIN, ARIZON

PRESENT AND FUTU
MAJOR AND LIGHT INDUS
AND MINING DEVELOP

STETSON ENGINEERS

San Rafael Capistrano Beach


NAVAJO INDIAN RESERVATION
NAVAJO INDIAN RESERVATION



LEGEND

WATERSHED

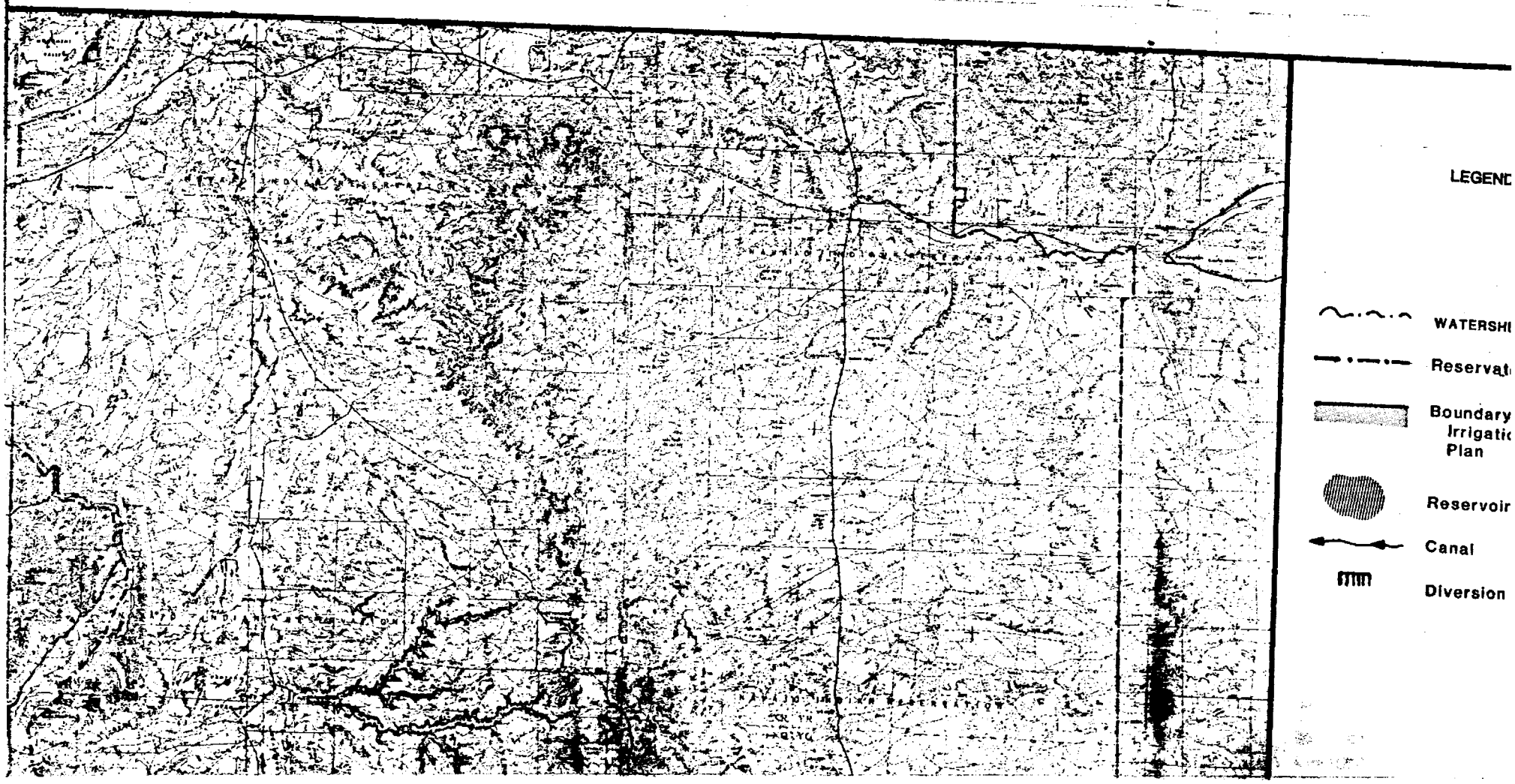
Reservation

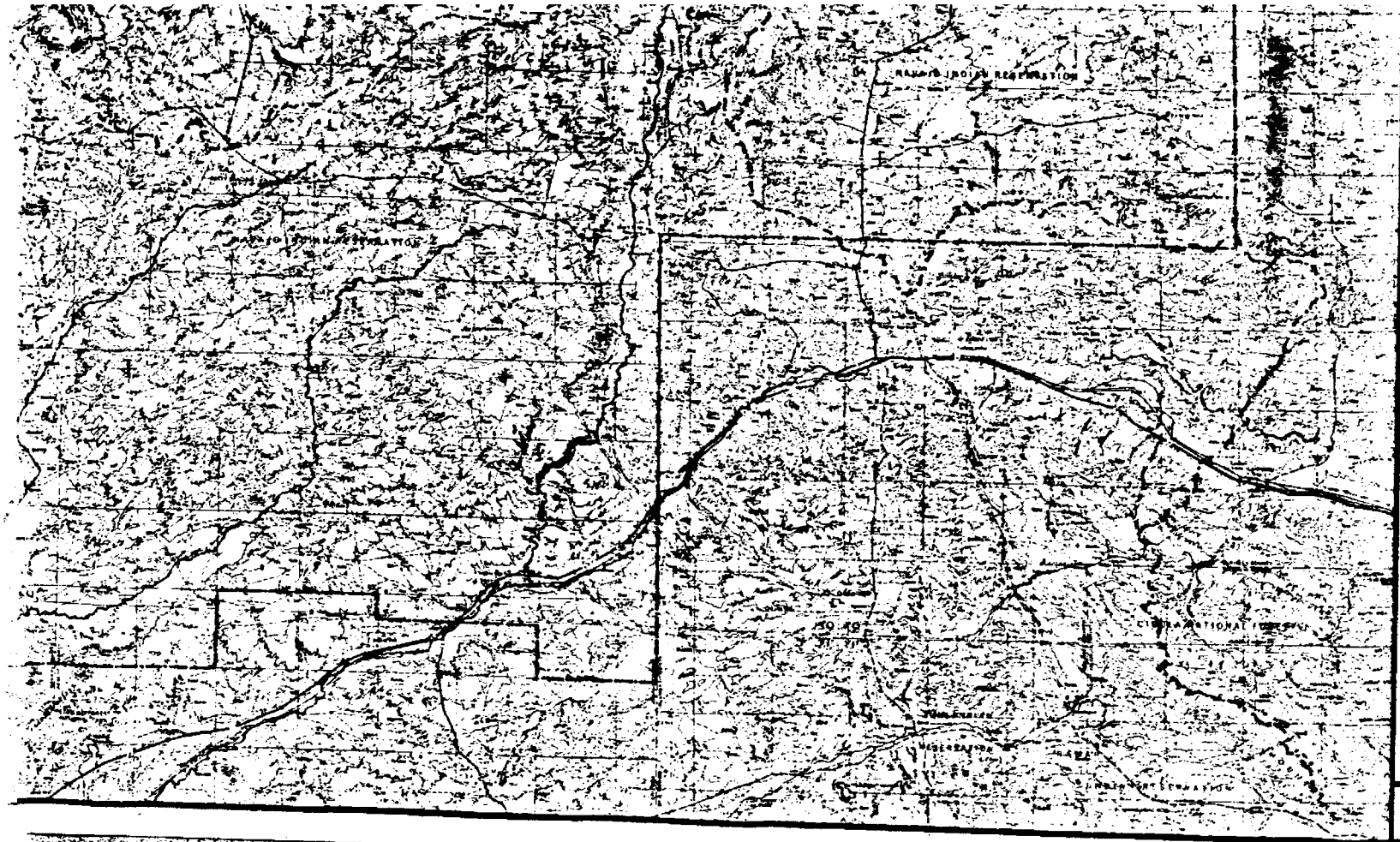
Boundary o
Irrigation
Plan

Reservoir

Canal

Diversion D


LEGEND
WATERSHI
Reservat
Boundary
Irrigatic
Plan
Reservoir
Canal
Diversion



N

0 10
MILES

MAP NO.1

NAVAJO AND HOPI IN
RESERVATIONS LITTLE C
RIVER BASIN, ARIZO

PROPOSED SURFACE
IRRIGATION DEVELOPME

STETSON ENGINEERS
SAN RAFAEL CAPISTRANO BEACH

For Departmental Use Only

File No. 39- 91441

Date Filed: 11-29-85

WFN

RECEIVED NOV 29 1985 DEPT. OF WATER RESOURCES

STATEMENT OF CLAIMANT FORM FOR OTHER USES[1]

LITTLE COLORADO RIVER WATERSHED ADJUDICATION
SUPERIOR COURT OF APACHE COUNTY

1. **Claimant Name:** United States Department of the Interior, Bureau of Indian Affairs on ~~behalf of the Navajo and Hopi Tribes.~~
   Claimant Address: _____ City _____
   State: _____ Zip Code _____ Telephone _____

2. **Basis of Claim:**
   A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No. _____
   B. ☐ Appropriation Right acquired after June 12, 1919. Application No. _____, Permit No. _____, or Certificate of Water Right No _____
   C. ☐ Decreed water right. Principal litigants, court, date and case no.: _____
   D. ☐ Right to withdraw groundwater.
   E. ☒ Other, describe: Federal Reserved water right (see attached text)

3. **Claimed Priority Date:** Time immemorial (month/day/year)

4. **Use:**
   A. ☒ Municipal
   B. ☒ Commercial or Industrial
   C. ☒ Mining
   D. ☒ Stockwatering other than from a stockpond
   E. ☒ Recreation, Fish & Wildlife
   F. ☒ Other, describe: See attached text and claims data

5. **Source of Water:** (See attached claims data)
   A. ☒ Stream: name _____, tributary to _____
   B. ☒ Spring: name _____, tributary to _____
   C. ☒ Lake or Reservoir: name _____, tributary to _____
   D. ☒ Groundwater

6. **Legal description of the Point of Diversion:** (attach additional sheet if required) (See attached claims data)
   ____¼, ____¼, ____¼, Section ____, Township ____N/S, Range ____E/W

7. **If there are Irrigation, Domestic or Stockpond uses also supplied from the Point of Diversion, describe:**
   _____

8. **Means of Diversion:** (See attached claims data)
   A. ☐ Instream pump
   B. ☐ Gravity flow into ditch, canal or pipeline.
   C. ☐ Well: Arizona State Land Department, Arizona Water Commission or Arizona Department of Water Resources Intent to Drill File No. _____
   D. ☐ Other, describe _____

[1] *See Instructions for explanation of uses in this category*

9. **Means of Conveyance:**
A. ☐ Ditch, canal or pipeline. If the means of conveyance is owned and/or operated by some other entity, please give name and address: (See attached claims data)
B. ☐ Other, describe:

10. **Place of Use, if other than point of diversion:** (attach additional sheet if required)
County Coconino, Apache and Navajo.

Legal Subdivision	Section	Township	Range
		N/S	E/W
		N/S	E/W

11. **Claimed Right:** (See attached claims data)
A. Maximum Flow Rate: ☐ cubic-feet per second ☐ gallons per minute ☐ Arizona miner's inches
B. Annual Volume of Water Use: acre-feet
C. Storage Right: acre-feet

12. Attach photographs, maps or sketches necessary to show the point of diversion, storage reservoir(s), place(s) of use and means of conveyance.

13. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant Contact Bureau of Indian Affairs

14. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person? Rights Protection Office, Bureau of Indian Affairs, Albuquerque, NM

15. Attach Filing Fee to Form. Mail form(s) and fee(s) to: Department of Water Resources, P.O. Box 2920, Phoenix, AZ 85062.

16. **Additional comments:**

(attach additional sheet if required)

17. **Notarized Statement:**
I (We) James H Stevens the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the information contained and statements made herein are to the best of my(our) knowledge and belief true, correct and complete.

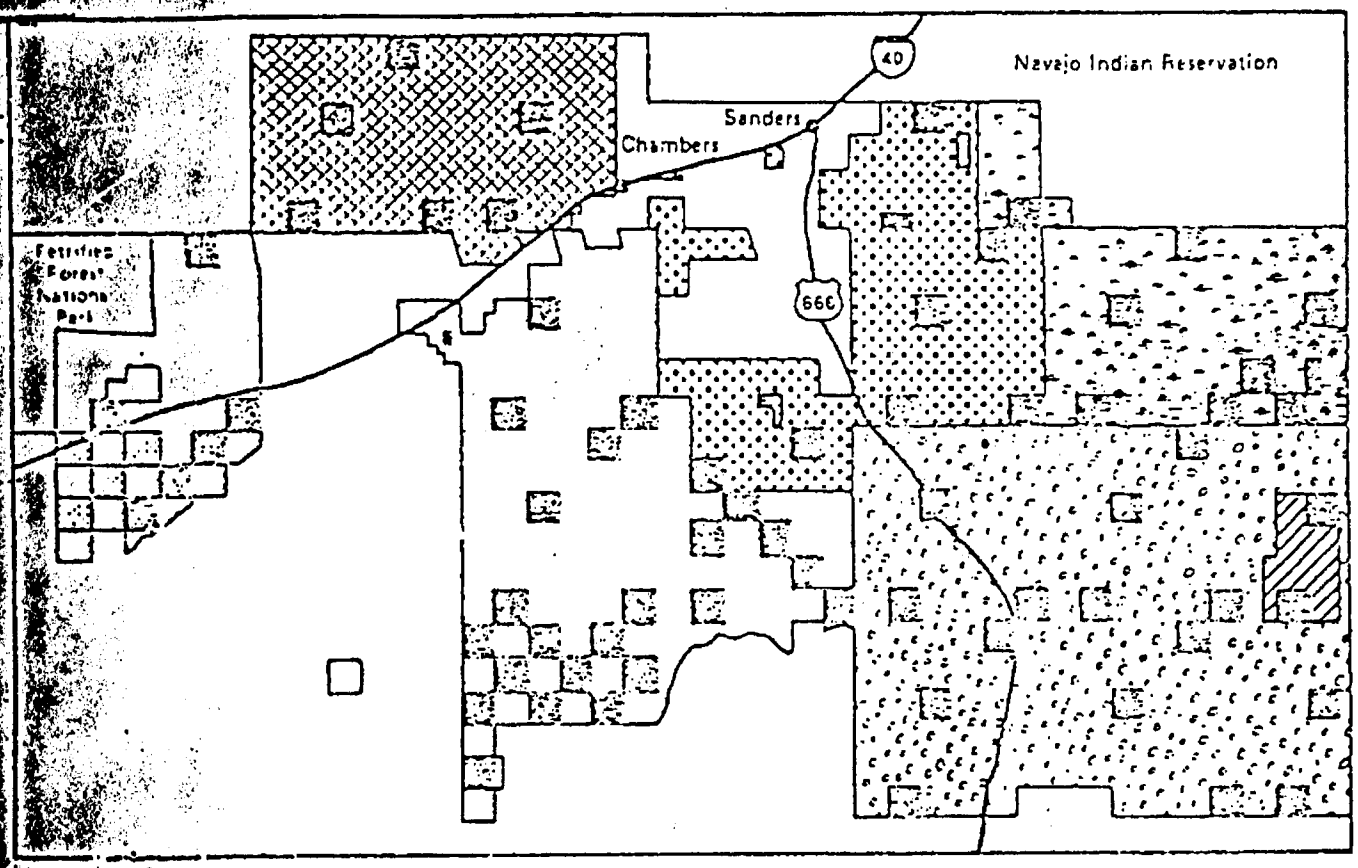
Florence K. Burgess

(seal)

Notary Public

My Commission Expires: March 14, 1987

Lands Selected by the Navajo Tribe



RANCH	DEEDED	STATE	BLM	TOTAL
Chambers (Navajo)	44,800	4,480		49,280
Bar N (Navajo)	106,880	10,000		116,880
Wallace	45,000	6,000		51,000
Spurlock	61,440	16,000		77,440
Roberts	35,480	6,080		41,560
Fitzgerald	20,000	3,640	5,120	28,960
Kelsey	5,169	1,280		6,449
TOTAL	318,769	47,680	5,120	371,409

APPENDIX B

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DEC 18 1985
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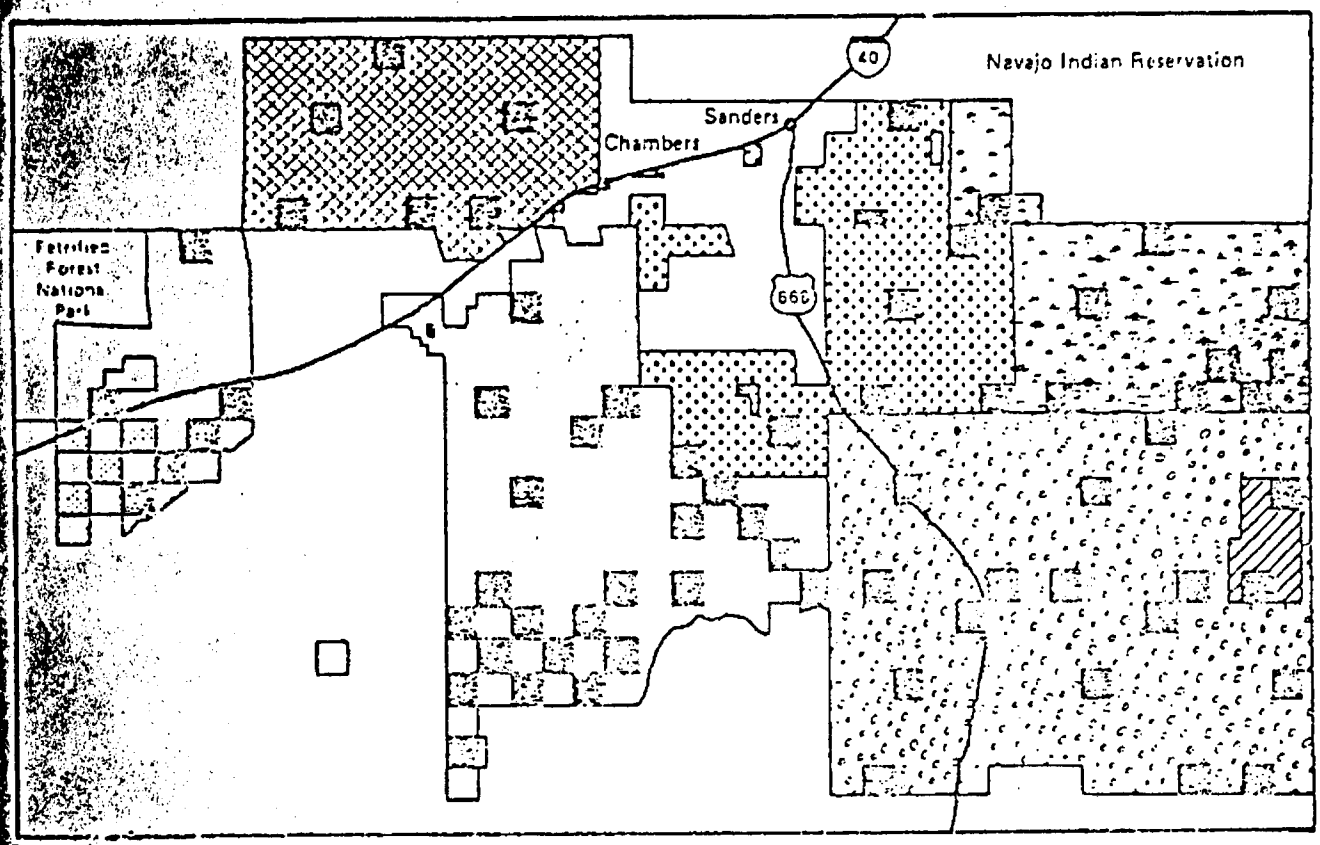
WATER RESOURCES

Lands Selected by the Navajo Tribe



RANCH	DEEDED	STATE	BLM	TOTAL
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Fitzgerald	20,000	3,840	5,120	28,960
Kelsey	5,169	1,280		6,449
TOTAL	318,769	47,680	5,120	371,409

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DEPT. OF
WATER RESOURCES

APPENDIX B

Table 13 (Continued)

MINING WATER USE
CURRENT OR RECENT, AND FUTURE
GROUND WATER CLAIMS
LITTLE COLORADO RIVER BASIN
HOPI AND NAVAJO INDIAN RESERVATIONS, ARIZONA

CURRENT OR RECENT USE:

WELL NO.	EASTING	NORTHING	USE (Acre-Ft)
P-99	566872	4035575	0.0
PEABODY 1	551277	4040243	516.6
PEABODY 2	551760	4039551	516.6
PEABODY 3	555727	4032820	516.6
PEABODY 4	552685	4033464	516.6
PEABODY 5	554117	4037616	516.6
PEABODY 6	556202	4039663	516.6
PEABODY 7	553007	4030052	516.6
PEABODY 8	551018	4042756	516.6
PEABODY 9	552287	4027390	516.6
HOGBACK 1	670508	3917258	0.0
NM AZ URAN	557159	3923483	0.0
RAR MET TH	466653	3968745	0.0
SC601191	454910	3959420	0.0
RARE MET 1	487689	4000693	0.0
RARE MET 2	474849	4000935	0.0
RARE MET 3	488171	4001482	0.0
RARE MET 4	487029	4001418	0.0
		TOTAL	4,649.4

FUTURE USE:

TYPE	LOCATION	FUT. USE
1.) DUST CNTRL, DOMESTIC, CONSTRUCTION	SEE MAP NO.4	1300
2.) SLURRYING	SEE MAP NO.4	6,820
	FUTURE USE	8,120
	TOTAL USE	12,769

NOTE: WELLS WITH CURRENT OR RECENT USE FIGURES OF ZERO MAY BE RE-ACTIVATED IN THE FUTURE. FUTURE USE WILL BE OBTAINED FROM EXISTING OR NEW WELLS.

U.S. Department of Justice

Environment and Natural Resources Division

VBW:YMM
90-6-2-54

Indian Resources Section
Denver Field Office
999 18th Street
Suite 945 North Tower
Denver, CO 80202

Telephone (303) 312-7314
Facsimile (303) 312-7379

March 3, 2004

RECEIVED
MAR 9 2004
LEGAL
DEPT OF WATER RESOURCES

Glenda Winters
Arizona Department of Water Resources
Legal Division
500 N. 3rd Street
Phoenix, Arizona 85004-0001

Re: In Re the General Adjidication of the Little Colorado River, Case No. 6417, Supeior Court, Apache County (AZ)

Dear Ms. Winters:

Pursuant to your telephone call to me regarding the incorrect plate map previously submitted to ADWR on CD for Appendix 4, Plate #3, to the United States' Amended Statement of Claimant on Behalf of the Hope Tribe, enclosed is a CD containing a new map for Plate #3. The new plate corrects the title which was incorrectly mistitled as Plate #2 to the correct Plate #3 map on the previously submitted CD.

If you have any questions, please feel free to contact me. Thank you for your time and attention to this matter.

Sincerely,

Yvonne M. Marsh

Yvonne M. Marsh
Paralegal Specialist

Enclosure

cc: Harry Sachse (w/enclosure)
Stanley Pollack (w/enclosure)

U.S. Department of Justice

Environment and Natural Resources Division

VBW:YMM
90-6-2-54

Indian Resources Section
Denver Field Office
999 18th Street
Suite 945 North Tower
Denver, CO 80202

Telephone (303) 312-7314
Facsimile (303) 312-7379

RECEIVED
FEB 23 2004
LEGAL
DEPT OF WATER RESOURCES

February 19, 2004

Rich Burtell
Arizona Department of Water Resources
Legal Division
500 N. 3rd Street
Phoenix, Arizona 85004-0001

Re: In Re The General Adjudication of the Little Colorado River, Case No. 6417, Superior Court, Apache County (AZ)

Dear Mr. Burtell:

Pursuant to your request, enclosed is a Compact Disk ("CD") containing the maps and tables that are included as appendices to the United States' Amended Statement of Claimant on Behalf of the Hopi Tribe which a complete set was served on the Arizona Department of Water Resources on January 29, 2004. Please note the CD does not include a copy of the claim, or the remaining appendices containing the detailed lists of springs, impoundments and wells, and the water right abstracts, it contains only the oversized maps and tables as per your request.

If you have any questions, please feel free to contact me or attorney Vanessa Boyd at (303) 312-7312.

Sincerely,

Yvonne M. Marsh

Yvonne M. Marsh
Paralegal Specialist

Enclosure

cc: Harry Sachse (w/enclosure)
Stanley Pollack (w/enclosure)

U.S. Department of Justice

Environment and Natural Resources Division

VBW:YMM
90-6-2-54

Yvonne M. Marsh
Indian Resources Section
999 18th Street, Suite 945
Denver, Colorado 80202

Telephone (303)312-7314
Facsimile (303) 312-7379
yvonne.marsh@usdoj.gov

January 29, 2004

RECEIVED
FEB 2 2004
LEGAL
DEPT OF WATER RESOURCES

By Federal Express

Clerk of the Superior Court
Attn: Water Case
Apache County Courthouse
70 West Third South
St. Johns, Arizona 85936

Re: In Re The General Adjudication of All Rights to Use Water in The Little Colorado River System and Source, Civil No. 6417

Dear Clerk:

Please find enclosed for filing in the above referenced action an original and two copies of the "**United States' Notice of Filing of Amended Statement of Claimant On Behalf of the Hopi Tribe.**'" Please return a filed-stamped copy in the self-addressed, postage-paid, envelope provided.

Also, enclosed for the Court is a courtesy copy of the Amended Statement of Claimant on Behalf of the Hopi Tribe. Please note that page 14, the Verification page, to the Amended Statement is blank. We will be forwarding a signed Verification page to ADWR and the Court tomorrow to replace with the one filed here today.

Thank you for your assistance.

Sincerely,

Yvonne M. Marsh

Yvonne M. Marsh
Paralegal Specialist

Enclosures

cc: John Doney
John Cawley
Director, ADWR
Hopi

UNITED STATES' AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE
January 29, 2004

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APPENDIX 7 - Detailed List of Wells

APPENDIX 8 - Map: Presently and Historically Irrigated Lands

APPENDIX 9 - Water Right Abstracts

THOMAS L. SANSONETTI
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Indian Resources Section
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Attorneys for the United States of America

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FEB 2 2004
LEGAL
DEPT OF WATER RESOURCES

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 UNITED STATES' NOTICE OF FILING OF AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE

DESCRIPTIVE SUMMARY:	The United States notices the filing of its Amended Statement of Claimant on Behalf of the Hopi Tribe.
NUMBER OF PAGES:	3
DATE OF FILING:	January 29, 2004

Pursuant to the Minute Entry, dated May 9, 2003, and A.R.S. § 45-254(E), the United States hereby provides this Notice informing the Court and other parties that on January 29, 2004, the United States filed its Amended Statement of Claimant on Behalf of the Hopi Tribe with the Director of the Arizona Department of Water Resources by Federal Express overnight delivery. The United States has also provided the Court with a courtesy copy of the Amended Statement of Claimant on Behalf of the Hopi Tribe.

Respectfully submitted, this 29th day of January 2004.

VANESSA BOYD WILLARD
Trial Attorney, CO #30278
Indian Resources Section
Environment and Natural Resources Division
United States Department of Justice
999 18th Street, Suite 945
Denver, CO 80202
Tel. (303) 312-7312
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CERTIFICATE OF SERVICE

I hereby declare under penalty of perjury, that on January 29th, 2004, I served a true and correct copy of the UNITED STATES' NOTICE OF FILING OF AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE by U.S. Mail, postage prepaid, to all parties listed on the Court-Approved Mailing List, dated October 6, 2003.

Vanessa Boyd Willard

Vanessa Boyd Willard

THOMAS L. SANSONETTI
Assistant Attorney General
Environment and Natural Resources Division
United States Department of Justice

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(303) 312-7312

Attorneys for the United States of America

RECEIVED
FEB 2 2004
LEGAL

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 UNITED STATES' AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE

DESCRIPTIVE SUMMARY:	Amended Statement of Claimant on behalf of the Hopi Tribe filed pursuant to Minute Entry, dated May 9, 2003.
NUMBER OF PAGES:	15
DATE OF FILING:	Original transmitted to Arizona Department of Water Resources via Federal Express overnight delivery on January 29, 2004.

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INTRODUCTION

The United States of America, for the benefit of the Hopi Tribe, hereby submits its amended Statement of Claimant for water rights on behalf of the Hopi Tribe. This claim is submitted pursuant to the Minute Entry, dated May 9, 2003. Additionally, this claim is submitted pursuant to the guidance provided by A.R.S. §§ 45-183 and 45-254 as interpreted by the Arizona Supreme Court to apply to federal reserved water right claims on Indian reservations. *San Carlos Apache v. Superior Court*, 144 Ariz. 265, 278 (1985) ("Since federal law is supreme, it follows that claims based on rights granted by federal law, including the *Winters* doctrine, will be sufficient under the statute even though the information provided does not include that required to support claims based on state law. Also, see A.R.S. § 45-254(C), requiring only such information as is "appropriate.""").

A. <u>Legal Basis for the Claims</u>

The legal basis for these claims is the federal reserved water rights doctrine.[1] *See Winters v. United States*, 207 U.S. 564 (1908); *Arizona v. California*, 373 U.S. 546 (1963); and *Cappaert v. United States*, 426 U.S. 128 (1976). The United States Supreme Court has consistently interpreted the federal reserved rights doctrine to mean that when the Federal Government reserves land, it reserves not only the land but also the amount of water necessary to accomplish the purpose of the reservation. *See Ariz. v. Cal*, 373 U.S. at 596; *Cappaert*, 426 U.S. at 138. The Arizona Supreme Court has followed the United States Supreme Court in recognizing that "the essential purpose of Indian reservations is to provide Native American people with a "permanent home and abiding place."" *In re the General Adjudication of All Rights to Use Water in the Gila River System and Source*, 201 Ariz. 307, 313 (2001). Accordingly, the United States claims sufficient water to provide for the present and future water needs necessary to fulfill the purposes of the Hopi Reservation as a permanent home and abiding place for the Hopi people.

---

[1]The claims to the water rights for the Hopi newly acquired lands are not based on federal reserved water rights. Instead, those water rights were provided for explicitly by Congress as explained in Section E below.

All of the uses claimed herein are for waters reserved for the benefit of the Hopi Tribe, whose aboriginal presence on lands contained within the Hopi Reservation involved domestic, communal, cultural, agricultural and other types of water consumption. Accordingly, the priority date for all of the Hopi water rights is aboriginal, or time immemorial.[2] *See United States v. Adair*, 723 F.2d 1394, 1414 (9th Cir. 1983).

B. <u>Categories of Water Uses</u>

The stated claims are based on the following categories of water uses:

1) domestic, commercial, municipal and industrial;

2) heavy commercial;

3) heavy industrial/ mining related industry;

4) springs, stock ponds and wells;

5) past and present irrigation; and

6) Hopi newly acquired lands.

At this time, the United States is unable to state specific claims for religious and ceremonial uses of water by the Hopi Tribe, but does not waive its right to assert such claims if and when evidence of such uses is made known to the United States. Within each category of use, amounts may be claimed for the past and/or present uses of the Hopi, as well as for the future needs of the Hopi. *See Ariz. v. Cal.*, 373 U.S. at 600. A summary table of the total claim is provided at the end of this pleading.

C. <u>Subsequent Revision or Supplement to Claims</u>

The United States submits these amended claims to inform the Court, the Arizona

---

[2]The one exception to the time immemorial priority date is the claim for the Hopi newly acquired lands. As explained in Section E, the Navajo-Hopi Land Dispute Settlement Act of 1996 specifically provides for the water rights on the newly acquired lands, including priority dates. Accordingly, the United States does not claim a time immemorial priority date for the Hopi newly acquired lands but instead claims the priority dates that are provided for those lands by the 1996 Act.

Department of Water Resources, and the parties of the nature and extent of the water rights which the United States owns in trust for the Hopi. These amended claims are based on the best information available to the United States at this time. However, the federal government continues to investigate the Hopi water rights and further supplementation of this claim may be necessary in the future. Additionally, further claim amendment may be necessary when the United States submits its amended claim on behalf of the Navajo Nation at the proper time allotted by the Court.

CLAIMS ON BEHALF OF THE HOPI TRIBE

A. Domestic, Commercial, Municipal and Industrial

For the benefit of the Hopi Tribe's present and future domestic, commercial, municipal and industrial ("DCMI") water uses, the United States claims the right to 11,211 acre-feet per year or a rate of approximately 10 million gallons per day. The water source for this DCMI claim is the N Aquifer. The claim for 11,211 acre-feet per year for the Hopi Tribe's present and future DCMI uses is based on future Hopi population projections and estimated rates of water consumption per capita.

1. *Per Capita Water Usage*

In terms of total quantity, the DCMI water demand in a community or region can be estimated on the basis of a per capita demand in gallons per day ("gpcpd"). Based on comparisons with local area water use and state averages, the Hopi Tribe's per capita demand in gallons per day is 160 gpcpd. This water use represents several components including: residential indoor use; residential outside use; commercial use; light industrial use; public uses and system losses.

2. *Hopi Population Projections*

According to United States' consultants, the Hopi population is predicted to achieve a stable population of approximately 62,512 by the year 2175. The population forecast is based on 2000 Census data, demographic methodology and data, information collected from Hopi tribal reports, interviews with Hopi tribal members and employees and other sources. The population projection is based on current and future geographic distribution of villages and other population centers on the

Reservation.

3. *Population Maps and Tables*

A table outlining the estimate of future Hopi population and geographic distribution is attached as Appendix 1. A second table, attached as Appendix 2, outlines the actual demands in acre feet per year based on 160 gpcpd. Finally, a map entitled Population Regions and Long-term DCMI Demands is enclosed as Appendix 3 for the purpose of providing a geographic overview of the Hopi population centers combined with the projected long-term DCMI demands.

B. <u>Heavy Commercial</u>

The United States, on behalf of the Hopi Tribe, claims 556 acre feet per year for use on Hopi land located near Winslow, Arizona. The water source for this claim is the C Aquifer. Pursuant to the Hopi Tribe's economic development plans, the purpose of this water right is to develop a tourist resort including a major Hopi visitor center, museum, a golf course and hotel.

C. <u>Heavy Industrial / Mining Related Industry</u>

The United States, on behalf of the Hopi Tribe, claims 3,000 acre feet per year for present and future use in coal mining-related industry. The water source for this claim is the N Aquifer in the northern section of the Hopi Reservation.

D. <u>Springs, Stock Ponds and Wells</u>

The United States, on behalf of the Hopi Tribe, claims the use of springs, stock ponds and wells located on the Hopi Reservation. The Hopi have historically utilized springs, stock ponds and wells for a variety of uses and continue to use these resources today. Enclosed as Appendix 4 are a group of maps labeled as the Spring, Well and Impoundment Maps. These USGS quad maps on a 1:100,000 scale provide a geographic overview of the locations of the springs, stock ponds and wells claimed below.[3]

---

[3]The labeling system for the quad maps works as follows. The first letter designates whether the location is a spring, stock pond or well, ie: S = spring; I = stock pond/impoundment; and W = well. The two numbers following the designation letter reference the plate number on which that spring,

1. *Springs*

The United States claims 338 springs for cultural, domestic, stock and irrigation uses. At an average rate of 6.5 acre feet per year, the total spring claim is 2206.1 acre feet per year.[4] A detailed list of springs is attached as Appendix 5.

2. *Stock Ponds*

The United States claims 561 impoundments for stockwatering purposes. The total capacity of these impoundments is 4,499 acre feet per year. A detailed list of impoundments is attached as Appendix 6.

3. *Wells*

The United States claims 206 wells for domestic and stockwatering purposes with a total diversion of 1,339 acre feet per year. A detailed list of wells is attached as Appendix 7.

E. <u>Past and Present Irrigation</u>

The United States, on behalf of the Hopi Tribe, claims the right to divert 49,136 acre-feet per year from the five washes that flow from north to south through the Hopi reservation.[5] The five washes are Moenkopi, Dinnebito, Oraibi, Polacca, and Jadito. On average, the irrigation diversion is 28,700 acre-feet per year. However, the United States claims the maximum acre-feet per year in order to provide an adequate water supply for irrigation in years that the water is available. This claim is based on past and/or present uses of water by the Hopi Tribe for purposes of irrigating the specified tracts of land from the indicated washes.

---

stock pond or well is located, ie: S011 designates a spring located on Plate 1. An index map of the plates is also included for ease of reference. The final number in the label references a specific number assigned to each spring, stock pond or well on its corresponding plate.

[4]The flow rate claimed is 6.5 acre feet per year unless actual flow rate is greater than 4 gallons per minute.

[5]Approximately 53 acres of irrigated lands are located near minor tributaries to the Little Colorado River rather than tributaries to the five washes.

1. *Technical basis for past and present irrigated acreage claim.*

The Hopi Tribe has historically irrigated and continues to irrigate crops on the Hopi Reservation. The past and present irrigated acreage was identified based on interpretation of aerial photos taken since 1934 and field assessment. These identified lands were divided into five irrigation types based on water source and crop as follows:

Perennial Irrigation - Perennial surface water available to the parcel, conveyed by permanent structures.

Seasonal Irrigation - Seasonal surface water available to the parcel and used on planted fields; water is conveyed by structures ranging from temporary and/or permanent spreader dikes to diversion with ditches.

Range Pasture Irrigation - Seasonal surface water available to the parcel and used to improve range for pasture; water is conveyed by structures ranging from temporary and/or permanent spreader dikes to diversions with ditches.

Native Irrigation - Seasonal surface water available to the parcel with minimal water control structures; water arrives at the parcels by strategic placement of the parcel rather than by conveyance of the water.

Spring Irrigation - Perennial groundwater available to the parcels obtained and distributed from a spring.

The Hopi Tribe also crops land that is not irrigated and relies upon precipitation. These precipitation farmed lands were identified, but are not associated with a water right claim.

The seasonal water supplies in the five northern washes for 1950 through 1993 were estimated using the Precipitation Runoff Modeling System (PRMS) created by the United States Geological Survey. The PRMS model estimates daily runoff based on precipitation, temperature, solar radiation, and physical characteristics of the area being modeled. Crop water requirements were estimated using the Modified Jensen-Haise method to determine evapotranspiration (ET)

adjusted by crop coefficients based on crop type, typical planting dates, and cultural cropping practices. The irrigation diversions and irrigation depletions were estimated using a deficit irrigation simulation model that considers the available flows (from PRMS) for irrigation and potential crop ET. The model tracks soil moisture and adjusts crop ET based on soil moisture. A deficit irrigation model was used because full water supplies for the crops are seldom available. The seasonal water supply limits irrigation diversions and depletion. The past and present irrigation claim is for the maximum estimated diversion for irrigation during the period of analysis.

The water supply for perennial and spring irrigation is usually available throughout the irrigation season (April through September). However, because of the nature of springs and the fact that the perennial flows occur only in sections of the washes, a full irrigation supply is not always available. The irrigation supply for these lands was therefore estimated to be 90 percent of the irrigation requirement.

2. *Outline of the past and present irrigation claim*

The following two tables outline the past and present irrigation claim. Table 1, Presently and Historically Irrigated Acreage in the Five Wash Basins through the Hopi Reservation, designates the past and present irrigated acreage divided by wash. Table 2, Estimated Irrigation Depletion and Diversion for Presently and Historically Irrigated Lands on the Hopi Reservation, outlines the irrigation depletion and diversion in both average and maximum years.

In addition, a map labeled Presently and Historically Irrigated Lands is enclosed as Appendix 8 in order to provide an overview of the irrigated acreage based on the GIS coverages created from interpretation of historical photos. The GIS coverages themselves are available for review if ADWR determines such coverages would be helpful.

Table 1

Presently and Historically Irrigated Acreage in the five wash basins through Hopi Reservation.

Wash	Perennial (acres)	Seasonal (acres)	Range Pasture (acres)	Native (acres)	Spring (acres)	Precipitation Farming (acres)	Total (acres)
Moenkopi Main Reservation	16	121	334	2,002	23	1	2,497
Moenkopi Island	548	0	0	433	8	0	989
Dinnebito	0	1,375	359	5,107	97	333	7,271
Oraibi	0	1,653	4,052	4,910	0	455	11,070
Polacca	0	1,645	1,970	8,660	22	252	12,549
Jadito	0	1,392	807	1,926	1	1	4,127
Minor Tributaries				53			53
TOTAL	**564**	**6,186**	**7,522**	**23,091**	**151**	**1,042**	**38,556**

Minor tributaries is a small area of the Hopi Reservation drains directly to the Lower Colorado River rather than a major wash.
Precipitation Farming does not have a diversion or depletion from washes.
There is no irrigation from wells on the Hopi Indian Reservation.

Table 2

Estimated Irrigation Depletion and Diversion for Presently and Hisortically Irrigated Lands on the Hopi Indian Reservation

	Irrigation Depletion		Irrigation Diversion	
Wash	Average (ac ft/yr)	Maximum (ac-ft/yr)	Average (ac-ft/yr)	Maximum (ac-ft/yr)
Moenkopi Main Reservation	2,084	2,440	2,772	3,246
Moenkopi Island	1,310	1,535	1,468	1,795
Dinnebito	3,961	6,552	5,280	8,714
Oraibi	5,384	9,865	5,384	13,120
Polacca	7,218	11,869	9,622	15,786
Jadito	2,936	4,790	3,914	6,371
Minor Tributary	37	59	49	104
TOTAL	**22,930**	**37,110**	**28,489**	**49,136**

F. Hopi newly acquired lands

Pursuant to the Navajo-Hopi Land Dispute Settlement Act of 1996, the Hopi Tribe purchased five ranch properties south of the main Hopi Reservation. *See* 25 U.S.C.A. § 640d note. The issue of water rights for these newly acquired lands is specifically addressed in Section 12 of that Act. *Id.* Although these lands are not currently held in trust by the United States, applications to take the lands into trust are pending before the Secretary of the Interior Department.[9] Accordingly, the United States claims the water rights for the Hopi newly acquired lands as provided in Section 12 of the 1996 Act and outlined in Table 3 below.

Table 3
United States' water right claims to Hopi newly acquired lands

Ranch	Irrigation Use		Non-irrigation Uses		Total	
	Annual AF	Storage AF	Annual AF	Storage AF	Annual AF	Storage AF
26 Bar	507.00	184.00	302.99	67.33	809.99	251.33
Aja			654.74	636.27	654.74	636.27
Clear Creek			604.90	912.16	604.90	912.16
Hart			275.17	235.99	275.17	235.99
Drye			21.33	53.02	21.33	53.02
Total	507.00	184.00	1859.13	1904.77	2366.13	2088.77

[9] With respect to the 26 Bar Ranch, an application to take the land into trust is not currently pending with the Secretary of the Interior Department.

The priority date of the water rights appurtenant to the Hopi newly acquired lands is provided by the 1996 Act. Specifically, the 1996 Act provides the following:

> Sec. 12. Water rights.
> (a) In general -
> (1) Water rights. – Subject to the other provisions of this section, newly acquired trust lands shall have only the following water rights:
> (A) The right to the reasonable use of groundwater pumped from such lands.
> (B) All rights to the use of surface water on such lands existing under State law on the date of acquisition, with the priority date of such right under State law.
> (C) The right to make any further beneficial use on such lands of surface water which is unappropriated on the date each parcel of newly acquired trust lands is taken into trust. The priority date for the right shall be the date the lands are taken into trust.

Pursuant to the language of the 1996 Act above, the United States claims the right to the reasonable use of the groundwater pumped from the newly acquired lands and claims the state law priority date for the surface water on the newly acquired lands that existed on the date of acquisition. Those surface water priority dates are identified according to parcel in the set of water right abstracts attached hereto as Appendix 9.

CLAIM SUMMARY

The following table provides an overview of the United States' amended water right claims on behalf of the Hopi Tribe.

Table 4
Claim Summary Table

Type of Claim	Acre feet per year
DCMI	11,163
Heavy Commercial	556
Heavy Industrial	3,000
Springs	2206.1
Stock Ponds / Impoundments	4,499
Wells	1,339
Past and Present Irrigation	49,136
Hopi Newly Acquired Lands	2366.13 (2088.77 Storage AF)

Respectfully submitted, this 29th day of January 2004.

Vanessa Boyd Willard
VANESSA BOYD WILLARD
Trial Attorney, CO #30278
Indian Resources Section
Environment and Natural Resources Division
United States Department of Justice
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U.S. Department of Justice

Environment and Natural Resources Division

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90-6-2-54

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RECEIVED
FEB 2 2004
LEGAL
DEPT OF WATER RESOURCES

January 30, 2004

Clerk of the Superior Court
Attn: Water Case
Apache County Courthouse
P.O. Box 365
St. Johns, Arizona 85936

Herb Guenther
Director
Arizona Department of Water Resources
500 N. 3rd Street
Phoenix, AZ 85004-0001

Re: In Re The General Adjudication of All Rights to Use Water in The Little Colorado River System and Source, Civil No. 6417

Dear Clerk:

Enclosed is a signed verification page to the United States' Amended Statement of Claimant on Behalf of the Hopi Tribe, which replaces the blank verification page served yesterday upon ADWR and the Court.

Thank you for your assistance.

Sincerely,

Yvonne M. Marsh

Yvonne M. Marsh
Paralegal Specialist

Enclosures

cc: John Cawley
John Doney
Hopi

VERIFICATION OF UNITED STATES DEPARTMENT OF INTERIOR

Pursuant to A.R.S. § 45-183(B), I verify under penalty of perjury under the laws of the United States of America that to the best of my knowledge and belief, the statements made in this document and the claims asserted by the United States on behalf of the Hopi Tribe are true and correct. By making this verification, neither I, the United States, nor any of its agencies or personnel, waive any immunities, rights, privileges, or presumptions, whether based on federal, state or other statutory and/or common law, except as clearly and unambiguously required by Congress.

John R. Cawley

John R. Cawley
Supervisory Civil Engineer
Bureau of Indian Affairs
Branch of Regional Water Rights Protection
Albuquerque Area Office
P.O. Box 26567
Albuquerque, NM 87125

Executed on: 1-28-04

State of: New Mexico

County of: Bernalillo

Subscribed and sworn (or affirmed) before me this 28th day of January 2004.

(Seal)

OFFICIAL SEAL
April Casados
Notary Public
State of New Mexico
My Commission Expires 7-27-2004

Notary Public April Casados

Residing at 6324 Everitt Rd NW

Commission expires 7-27-2004

VERIFICATION OF UNITED STATES DEPARTMENT OF INTERIOR

Pursuant to A.R.S. § 45-183(B), I verify under penalty of perjury under the laws of the United States of America that to the best of my knowledge and belief, the statements made in this document and the claims asserted by the United States on behalf of the Hopi Tribe are true and correct. By making this verification, neither I, the United States, nor any of its agencies or personnel, waive any immunities, rights, privileges, or presumptions, whether based on federal, state or other statutory and/or common law, except as clearly and unambiguously required by Congress.

_____
John R. Cawley
Supervisory Civil Engineer
Bureau of Indian Affairs
Branch of Regional Water Rights Protection
Albuquerque Area Office
P.O. Box 26567
Albuquerque, NM 87125

Executed on: _____

State of: _____

County of: _____

Subscribed and sworn (or affirmed) before me this ____ day of January 2004.

(Seal)

Notary Public _____

Residing at _____

Commission expires _____

CERTIFICATE OF SERVICE

I hereby declare under penalty of perjury, that on January 29th, 2004, I served a true and correct copy of the UNITED STATES' AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE, by Federal Express overnight delivery to the Arizona Department of Water Resources at the following address:

Herb Guenther
Director
Arizona Department of Water Resources
Legal Division
500 N. 3rd Street
Phoenix, AZ 85004-0001

In addition, on January 29th, 2004, I served a courtesy copy of the UNITED STATES' AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE on the clerk of the court, via Federal Express overnight delivery at the following address:

Clerk of the Superior Court
Apache County
Attn: Water Case
P.O. Box 365
St. Johns, AZ 85936

Vanessa Boyd Willard

Vanessa Boyd Willard

Estimate of Future Hopi Population and Geographic Distribution

(By Northwest Economic Associates)

Population Region	Location[1]	Year and Population												Stabilization Population	100-Year Growth Rate
		2000	2005	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100		
MOENKOPI WASH BASIN	Moenkopi	885	1,065	1,232	1,676	2,257	3,001	3,917	4,926	5,958	6,896	7,494	7,866	9,342	2.1%
	Lower Moenkopi (on Hopi Island)	0	10	24	67	143	266	458	730	1,093	1,541	2,015	2,527	3,001	6.0%
	Howell Mesa East	0	5	11	31	67	124	214	341	510	719	940	1,179	1,400	6.0%
	Howell Mesa West	0	5	11	31	67	124	214	341	510	719	940	1,179	1,400	6.0%
	Side Rock Well	0	4	9	27	57	106	183	292	437	616	806	1,011	1,200	6.0%
	Rural Areas in Moenkopi Wash Basin (Total)	198	243	288	410	580	810	1,116	1,484	1,905	2,350	2,732	3,083	3,661	2.7%
	Village Areas Total	885	1,088	1,287	1,834	2,590	3,621	4,985	6,630	8,509	10,492	12,196	13,762	16,343	2.7%
	Total Moenkopi Population	*1,083*	*1,331*	*1,575*	*2,244*	*3,169*	*4,431*	*6,101*	*8,115*	*10,414*	*12,841*	*14,928*	*16,845*	*20,004*	2.7%
DINNEBITO WASH BASIN	Hotevilla	417	494	565	756	1,009	1,340	1,760	2,241	2,763	3,282	3,686	4,028	4,783	2.2%
	Rural Areas in Dinnebito Wash Basin (Total)	128	152	174	232	310	411	540	688	848	1,008	1,132	1,236	1,468	2.2%
	Village Areas Total	417	494	565	756	1,009	1,340	1,760	2,241	2,763	3,282	3,686	4,028	4,783	2.2%
	Total Dinnebito Population	*545*	*646*	*739*	*988*	*1,319*	*1,751*	*2,300*	*2,929*	*3,611*	*4,290*	*4,818*	*5,264*	*6,251*	2.2%
ORAIBI WASH BASIN	Bacavi	279	328	372	489	639	829	1,060	1,313	1,570	1,804	1,954	2,053	2,438	1.9%
	Kykotsmovi (Old Oraibi)	764	900	1,021	1,344	1,760	2,289	2,938	3,649	4,377	5,047	5,487	5,789	6,875	2.0%
	Second Mesa (portion)	87	104	120	163	221	297	396	510	637	765	868	958	1,138	2.4%
	South Oraibi	0	10	22	60	122	219	365	565	824	1,133	1,449	1,779	2,113	5.7%
	Tawaovi (Turquise)	0	11	25	69	140	253	421	652	951	1,307	1,672	2,053	2,438	5.7%
	Rural Areas in Oraibi Wash Basin (Total)	94	113	130	177	240	324	432	557	697	838	953	1,054	1,251	2.4%
	Village Areas Total	1,130	1,353	1,561	2,125	2,882	3,887	5,180	6,690	8,359	10,057	11,430	12,632	15,002	2.4%
	Total Oraibi Population	*1,224*	*1,465*	*1,691*	*2,302*	*3,122*	*4,211*	*5,612*	*7,247*	*9,055*	*10,895*	*12,383*	*13,686*	*16,253*	2.4%
POLACCA WASH BASIN	Along Highway 264	117	133	147	181	221	269	321	370	411	435	432	412	489	1.2%
	First Mesa Villages	1,489	1,698	1,866	2,300	2,818	3,422	4,090	4,715	5,227	5,539	5,495	5,239	6,222	1.2%
	Second Mesa Villages	1,435	1,636	1,798	2,217	2,716	3,298	3,942	4,544	5,037	5,339	5,296	5,049	5,996	1.2%
	Keams Canyon	373	425	467	576	706	857	1,025	1,181	1,309	1,388	1,377	1,312	1,559	1.2%
	Rural Areas in Polacca Wash Basin (Total)	27	31	34	42	51	62	74	85	95	100	100	95	113	1.2%
	Village Areas Total	3,414	3,893	4,279	5,274	6,461	7,846	9,378	10,810	11,985	12,701	12,599	12,012	14,265	1.2%
	Total Polacca Population	*3,441*	*3,924*	*4,313*	*5,315*	*6,512*	*7,908*	*9,452*	*10,896*	*12,079*	*12,801*	*12,699*	*12,107*	*14,378*	1.2%
JEDITTO WASH BASIN	Spider Mound	0	4	9	27	58	110	192	310	468	665	876	1,105	1,313	6.1%
	Rural Areas in Jeditto Wash Basin (Total)	209	256	302	425	590	809	1,089	1,412	1,762	2,106	2,369	2,579	3,063	2.5%
	Village Areas Total	0	4	9	27	58	110	192	310	468	665	876	1,105	1,313	6.1%
	Total Jeditto Population	*209*	*260*	*311*	*452*	*649*	*920*	*1,281*	*1,722*	*2,230*	*2,772*	*3,245*	*3,685*	*4,376*	2.8%
HOPI INDUSTRIAL PARK	Hopi Industrial Park	131	154	174	228	299	389	502	628	760	888	980	1,053	1,250	2.0%
	Rural Areas	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Village Areas Total	131	154	174	228	299	389	502	628	760	888	980	1,053	1,250	2.0%
	Total Hopi Industrial Park Population	*131*	*154*	*174*	*228*	*299*	*389*	*502*	*628*	*760*	*888*	*980*	*1,053*	*1,250*	2.0%

1. Hopi future villages are identified in red.

Total	Rural Areas Total	656	795	927	1,286	1,771	2,417	3,251	4,227	5,306	6,403	7,285	8,047	9,556	2.5%
	Village Areas Total	5,977	6,985	7,876	10,244	13,299	17,194	21,996	27,309	32,843	38,085	41,768	44,592	52,956	2.0%
	Hopi Total	**6,633**	**7,780**	**8,803**	**11,530**	**15,070**	**19,611**	**25,247**	**31,536**	**38,150**	**44,487**	**49,052**	**52,639**	**62,512**	**2.0%**

APPENDIX 1

APPENDIX 2

Hopi Population Regions and Long-Term DCMI Demands

(Based on 160 Gallons Per Capita Per Day)

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
MOENKOPI WASH BASIN				
Existing Village Areas	Moenkopi[1]	9,342	1,494,694	1,675
	Subtotal	*9,342*	*1,494,694*	*1,675*
Existing Rural Areas	Rural Areas in Moenkopi Wash Basin	3,661	585,715	657
	Subtotal	*3,661*	*585,715*	*657*
Future Hopi Villages	Lower Moenkopi[1]	3,001	480,094	538
	Howell Mesa East	1,400	224,044	251
	Howell Mesa West	1,400	224,044	251
	Side Rock Well	1,200	192,038	215
	Subtotal	*7,001*	*1,120,220*	*1,256*
	Total	*20,004*	*3,200,629*	*3,588*

1. Located on Hopi Island

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
DINNEBITO WASH BASIN				
Existing Village Areas	Hotevilla	4,783	765,288	858
	Subtotal	*4,783*	*765,288*	*858*
Existing Rural Areas	Rural Areas in Dinnebito Wash Basin	1,468	234,909	263
	Subtotal	*1,468*	*234,909*	*263*
Future Hopi Villages	*none*	0	0	0
	Subtotal	*0*	*0*	*0*
	Total	*6,251*	*1,000,196*	*1,121*

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
ORAIBI WASH BASIN				
Existing Village Areas	Bacavi	2,438	390,077	437
	Kykotsmovi (Old Oraibi)	6,875	1,100,016	1,233
	Second Mesa (portion)	1,138	182,036	204
	Subtotal	*10,451*	*1,672,128*	*1,874*
Existing Rural Areas	Rural Areas in Oraibi Wash Basin	1,251	200,239	224
	Subtotal	*1,251*	*200,239*	*224*
Future Hopi Villages	South Oraibi	2,113	338,066	379
	Tawaovi (Turquise)	2,438	390,077	437
	Subtotal	*4,551*	*728,143*	*816*
	Total	*16,253*	*2,600,511*	*2,915*

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
POLACCA WASH BASIN				
Existing Village Areas	Along Highway 264	489	78,219	88
	First Mesa Villages[2]	6,222	995,459	1,116
	Second Mesa Villages[3]	5,966	959,357	1,075
	Keams Canyon	1,559	249,366	280
	Subtotal	*14,265*	*2,282,401*	*2,558*
Existing Rural Areas	Rural Areas in Polacca Wash Basin	113	18,051	20
	Subtotal	*113*	*18,051*	*20*
Future Hopi Villages	*none*	0	0	0
	Subtotal	*0*	*0*	*0*
	Total	*14,378*	*2,300,452*	*2,579*

2. Includes: Hano (Tewa), Polacca, Sichomovi, Walpi, and Wepo.
3. Includes: Mishongnovi, Second Mesa, Shungopavi, Sipaulovi, Sunlight Mission, and Toreva.

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
JEDITTO WASH BASIN				
Existing Village Areas	*none*			
	Subtotal	*0*	*0*	*0*
Existing Rural Areas	Rural Areas in Jeditto Wash Basin	3,063	490,096	549
	Subtotal	*3,063*	*490,096*	*549*
Future Hopi Villages	Spider Mound	1,313	210,041	235
	Subtotal	*1,313*	*210,041*	*235*
	Total	*4,376*	*700,138*	*785*

Population Region	Location	Long-Term, Predicted Stabilization Population	Long-Term DCMI Demand (gpd)	Long-Term DCMI Demand (AFY)
HOPI INDUSTRIAL PARK				
Existing Village Areas	Hopi Industrial Park	1,250	200,000	224
	Subtotal	*1,250*	*200,000*	*224*
Existing Rural Areas	*none*			
	Subtotal	*0*	*0*	*0*
Future Hopi Villages	*none*	0	0	0
	Subtotal	*0*	*0*	*0*
	Total	*1,250*	*200,000*	*224*

Total Hopi	*62,512*	*10,001,925*	*11,211*

Hopi Reservation Water Use Claim from Springs.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example S011, S for spring, 01 for plate number 1, and 1 for number
Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S011		Hopi Tribe	1	513399	4013366	C/D/S	6.5
S012		Hopi Tribe	1	517830	4017572	C/D/S	6.5
S013		Hopi Tribe	1	520671	4019019	C/D/S	6.5
S014	WELL UNDER THE ROCK	Hopi Tribe	1	517744	4024065	C/D/S	6.5
S015		Hopi Tribe	1	514522	4013306	C/D/S	6.5
S021	WET HOLE SPRING	Hopi Tribe	2	543897	4026777	C&S	6.5
S022		Hopi Tribe	2	525024	4014255	C/D/S	6.5
S023		Hopi Tribe	2	524298	4015239	C/D/S	6.5
S024	BLU MOENCOPI SPRING	Hopi Tribe	2	527349	4012690	C/D/S	6.5
S025	COAL SLURRY SPRING	Hopi Tribe	2	529582	4016333	C&S	6.5
S026		Hopi Tribe	2	531461	4017428	C/D/S	6.5
S027	WHITE SANDSTONE SPRING	Hopi Tribe	2	531099	4017756	C/D/S	6.5
S028	DOG SPRING	Hopi Tribe	2	532211	4020564	C/D/S	6.5
S029		Hopi Tribe	2	529495	4020365	C/D/S	6.5
S0210	MARKED TRAIL SPRING	Hopi Tribe	2	528193	4021597	C/D/S	6.5
S0211	COTTONWOOD	Hopi Tribe	2	526468	4023286	C&S	6.5
S0212	TWIN CORRAL SPRING	Hopi Tribe	2	531944	4025277	C&S	6.5
S0213		Hopi Tribe	2	542763	4014653	C/D/S	6.5
S0214	RED WILLOW SPRING	Hopi Tribe	2	540712	4020599	C/D/S	6.5
S0215	TWO HEADED SNAKE SPRING	Hopi Tribe	2	536529	4019287	C/D/S	6.5
S0216		Hopi Tribe	2	541427	4020531	C/D/S	6.5
S0217	LOOKING WOMAN SPRING	Hopi Tribe	2	543429	4020705	C/D/S	6.5
S0218		Hopi Tribe	2	543135	4020889	C/D/S	6.5
S0219	SIDE WASH SP	Hopi Tribe	2	538137	4022252	C/D/S	6.5
S0220	NARROW NECK SPRING	Hopi Tribe	2	538733	4022778	C/D/S	6.5
S0221	GRAVEL HOLE SPRING	Hopi Tribe	2	541937	4025042	C/D/S	6.5
S0222		Hopi Tribe	2	540434	4024033	C/D/S	6.5
S0223		Hopi Tribe	2	535606	4013412	C/D/S	6.5
S0224		Hopi Tribe	2	540643	4019177	C/D/S	6.5
S031	LANDSLIDE SPRING	Hopi Tribe	3	547853	4027753	C/D/S	6.5
S032	MANY SHEEP SP	Hopi Tribe	3	552631	4016288	C/D/S	6.5
S033	FLAT TOP SLIDE SP	Hopi Tribe	3	548317	4024983	C/D/S	6.5
S034	POST SP	Hopi Tribe	3	552572	4017705	C/D/S	6.5
S035	OWL SPRING	Hopi Tribe	3	551133	4024968	C/D/S	6.5
S036		Hopi Tribe	3	554858	4028845	C/D/S	6.5
S037		Hopi Tribe	3	551478	4018143	C/D/S	6.5
S038		Hopi Tribe	3	549466	4016534	C/D/S	6.5
S041		Hopi Tribe	4	484470	3994256	C/D/S	6.5
S042		Hopi Tribe	4	477791	3982620	C/D/S	6.5
S043		Hopi Tribe	4	478033	3980689	C/D/S	6.5
S044		Hopi Tribe	4	479964	3996187	C/D/S	6.5
S045		Hopi Tribe	4	479883	3996348	C/D/S	6.5
S046		Hopi Tribe	4	479964	3996268	C/D/S	6.5
S047		Hopi Tribe	4	475710	3993497	C/D/S	6.5
S048		Hopi Tribe	4	476404	3994186	C/D/S	6.5

APPENDIX 5

Hopi Reservation Water Use Claim from Springs.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example S011, S for spring, 01 for plate number 1, and 1 for number
Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S049		Hopi Tribe	4	478110	3984050	C/D/S	6.5
S0410		Hopi Tribe	4	477078	3987108	C/D/S	6.5
S0411		Hopi Tribe	4	475679	3993718	C/D/S	6.5
S0412		Hopi Tribe	4	477118	3994584	C/D/S	6.5
S0413		Hopi Tribe	4	477205	3994601	C/D/S	6.5
S0414		Hopi Tribe	4	477313	3994604	C/D/S	6.5
S0415		Hopi Tribe	4	480187	3995934	C/D/S	6.5
S0416		Hopi Tribe	4	480188	3995829	C/D/S	6.5
S0417		Hopi Tribe	4	480225	3995911	C/D/S	6.5
S0418		Hopi Tribe	4	480225	3995833	C/D/S	6.5
S0419		Hopi Tribe	4	480528	3995647	C/D/S	6.5
S0420		Hopi Tribe	4	480928	3996626	C/D/S	6.5
S0421		Hopi Tribe	4	480911	3995648	C/D/S	6.5
S0422		Hopi Tribe	4	480996	3995589	C/D/S	6.5
S0423		Hopi Tribe	4	481015	3995579	C/D/S	6.5
S0424		Hopi Tribe	4	481193	3995388	C/D/S	6.5
S0425		Hopi Tribe	4	481507	3995537	C/D/S	6.5
S0426		Hopi Tribe	4	481698	3995557	C/D/S	6.5
S0427		Hopi Tribe	4	482178	3995482	C/D/S/IRR	6.5
S0428		Hopi Tribe	4	482403	3995418	C/D/S/IRR	6.5
S0429		Hopi Tribe	4	482602	3995232	C/D/S	6.5
S0430		Hopi Tribe	4	482610	3995243	C/D/S	6.5
S0431		Hopi Tribe	4	482634	3995222	C/D/S	6.5
S0432		Hopi Tribe	4	482759	3995183	C/D/S	6.5
S0433		Hopi Tribe	4	482820	3995181	C/D/S	6.5
S0434		Hopi Tribe	4	482509	3994580	C/D/S	6.5
S0435		Hopi Tribe	4	482885	3995137	C/D/S	6.5
S0436		Hopi Tribe	4	483006	3995184	C/D/S	6.5
S0437		Hopi Tribe	4	483371	3995105	C/D/S	6.5
S0438		Hopi Tribe	4	483438	3995114	C/D/S	6.5
S0439		Hopi Tribe	4	483470	3995105	C/D/S	6.5
S0440		Hopi Tribe	4	483530	3995046	C/D/S	6.5
S0441		Hopi Tribe	4	483626	3995006	C/D/S	6.5
S0442		Hopi Tribe	4	484151	3995134	C/D/S	6.5
S0443		Hopi Tribe	4	484703	3995434	C/D/S	6.5
S0444		Hopi Tribe	4	484832	3995462	C/D/S	6.5
S0445		Hopi Tribe	4	484825	3995395	C/D/S	6.5
S0446		Hopi Tribe	4	485599	3995895	C/D/S	6.5
S0447		Hopi Tribe	4	485129	3995731	C/D/S	6.5
S0448		Hopi Tribe	4	485162	3995741	C/D/S	6.5
S0449		Hopi Tribe	4	484652	3993788	C/D/S	6.5
S051	NEE DE MISO BITO	Hopi Tribe	5	500924	4009905	C&S	6.5
S052	NEE DE MISO BITO	Hopi Tribe	5	500924	4009536	C/D/S	6.5
S053		Hopi Tribe	5	508985	4010094	C/D/S	6.5
S054		Hopi Tribe	5	502042	4005058	C/D/S	6.5

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S055		Hopi Tribe	5	506346	4002575	C/D/S	6.5
S056		Hopi Tribe	5	511102	3999749	C/D/S	6.5
S057	4 SHEEP SPRING	Hopi Tribe	5	514615	4002215	C/D/S	6.5
S058	BASE OF COTTONWOOD SPRING	Hopi Tribe	5	517503	4007396	C/D/S	6.5
S059	ROUND ROCK	Hopi Tribe	5	506375	3996783	C/D/S	6.5
S0510	MUDDY WATER	Hopi Tribe	5	505050	3996011	C/D/S	6.5
S0511	NEZ SPRING	Hopi Tribe	5	506429	3990621	C/D/S	6.5
S0512		Hopi Tribe	5	512140	3988640	C/D/S	6.5
S0513	LOWER BADGER SP	Hopi Tribe	5	512060	3988901	C/D/S	6.5
S0514		Hopi Tribe	5	512085	3988778	C/D/S	6.5
S0515		Hopi Tribe	5	521484	3992647	C/D/S	6.5
S0516		Hopi Tribe	5	522183	3993234	C/D/S	6.5
S0517	2-9-139A	Hopi Tribe	5	520778	3995295	C/D/S	6.5
S0518	JUA2-8-344A	Hopi Tribe	5	519425	3996463	C/D/S	9.2
S0519		Hopi Tribe	5	505402	4011344	C/D/S	6.5
S0520		Hopi Tribe	5	517874	4010459	C/D/S	6.5
S0521		Hopi Tribe	5	509747	4001688	C/D/S	6.5
S0522		Hopi Tribe	5	504275	3996619	C/D/S	6.5
S0523		Hopi Tribe	5	513753	3986779	C/D/S	6.5
S061		Hopi Tribe	6	523897	3997676	C/D/S	6.5
S062	HAND BUILT SPRING	Hopi Tribe	6	524821	3997740	C/D/S	6.5
S063	TOH-AH-CHI	Hopi Tribe	6	530674	3996742	C/D/S	6.5
S064	NAKAI YAZZIE SP	Hopi Tribe	6	529341	3999263	C/D/S	6.5
S065	04M-137	Hopi Tribe	6	525135	4001469	C&D	6.5
S066	DANGER SPRING	Hopi Tribe	6	531894	4004880	C/D/S	6.5
S067	SAND SPRING	Hopi Tribe	6	530289	4006846	C/D/S	6.5
S068	2 SHEEP	Hopi Tribe	6	524597	4006304	C/D/S	6.5
S069	MANY FAST DRIP	Hopi Tribe	6	523849	4005778	C/D/S	6.5
S0610	HORSE THIEF SPRING	Hopi Tribe	6	524663	4009416	C/D/S	6.5
S0611	CLIFF DWELLING SPRING	Hopi Tribe	6	533770	4004271	C/D/S	6.5
S0612	HORSE SPRING	Hopi Tribe	6	538040	4004566	C/D/S	6.5
S0613	NARROW LEDGE SPRING	Hopi Tribe	6	533880	4007999	C/D/S	6.5
S0614	BIG MTN SPRING	Hopi Tribe	6	541969	4008219	C/D/S	6.5
S0615	SWEET WATER SP	Hopi Tribe	6	536944	4009799	C/D/S	6.5
S0616	KINNI TAAH WELL	Hopi Tribe	6	536693	4010044	C/D/S	6.5
S0617	BA HA ZOHNNIE BITO	Hopi Tribe	6	533704	3988804	C/D/S	6.5
S0618	BOBCAT SPRING	Hopi Tribe	6	525132	3985201	C/D/S	6.5
S0619	SALT SEEP SP	Hopi Tribe	6	527910	3985425	C/D/S	6.5
S0620	DOVE SPRING	Hopi Tribe	6	528333	3986258	C/D/S	6.5
S0621		Hopi Tribe	6	528633	3986259	C/D/S	6.5
S0622	WASH RUINS SPRING	Hopi Tribe	6	529105	3987401	C/D/S	6.5
S0623	COTTONWOOD SPRING	Hopi Tribe	6	531474	3988188	C/D/S	6.5
S0624	BA HA ZOHNNIE BITO	Hopi Tribe	6	533755	3988773	C/D/S	6.5
S0625	TIS-YA-TOH	Hopi Tribe	6	524938	3992009	C/D/S	6.5
S0626	TOCHAI SPRING	Hopi Tribe	6	535359	3987978	C/D/S	6.5

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Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S0627	TOH AH HONNIE BETOH SP	Hopi Tribe	6	534568	3991950	C/D/S	6.5
S0628		Hopi Tribe	6	523357	4008695	C/D/S	6.5
S0629		Hopi Tribe	6	524805	3992521	C/D/S	6.5
S0630		Hopi Tribe	6	533576	3991878	C/D/S	6.5
S0631		Hopi Tribe	6	534220	4004028	C/D/S	6.5
S0632		Hopi Tribe	6	533415	4004994	C/D/S	6.5
S0633		Hopi Tribe	6	534220	4008293	C/D/S	6.5
S0634		Hopi Tribe	6	544055	3985553	C/D/S	6.5
S0635		Hopi Tribe	6	530647	3997762	C/D/S	6.5
S0636		Hopi Tribe	6	534414	3992017	C/D/S	6.5
S071	BIG MOUNTAIN SP	Hopi Tribe	7	547137	4008246	C/D/S	6.5
S072	HASTIIN AKAHIBITO	Hopi Tribe	7	561528	3985596	C/D/S	6.5
S073	CROOKNED FINGER SP	Hopi Tribe	7	561541	3987199	C/D/S	6.5
S074		Hopi Tribe	7	561516	3987322	C/D/S	6.5
S075	UNDER ROCK SPRING	Hopi Tribe	7	562334	3988313	C/D/S	6.5
S076		Hopi Tribe	7	562209	3988374	C/D/S	6.5
S077	ROUGH ROCK SP	Hopi Tribe	7	561730	3988802	C/D/S	6.5
S078		Hopi Tribe	7	546302	4000954	C/D/S	6.5
S079		Hopi Tribe	7	562556	3988080	C/D/S	6.5
S0710		Hopi Tribe	7	561349	3985505	C/D/S	6.5
S0711		Hopi Tribe	7	553705	3985666	C/D/S	6.5
S0712		Hopi Tribe	7	553383	3984459	C/D/S	6.5
S0713		Hopi Tribe	7	554187	3987275	C/D/S	6.5
S081	JUA-5B-1-332	Hopi Tribe	8	510455	3970722	C/D/S	6.5
S082		Hopi Tribe	8	510223	3976298	C/D/S	6.5
S083		Hopi Tribe	8	502880	3981222	C&S	6.5
S084		Hopi Tribe	8	521760	3978018	C/D/S	6.5
S085		Hopi Tribe	8	508097	3961217	C/D/S	6.5
S086	HOCK SPRING	Hopi Tribe	8	508428	3967393	C/D/S	6.5
S087	HAMANA SP	Hopi Tribe	8	518323	3961493	C/D/S	6.5
S088		Hopi Tribe	8	521084	3957383	C/D/S	6.5
S089		Hopi Tribe	8	520678	3969297	C/D/S	6.5
S091		Hopi Tribe	9	528120	3970972	C/D/S	6.5
S092	HOOUI-PA SP	Hopi Tribe	9	531005	3973759	C/D/S	6.5
S093		Hopi Tribe	9	530719	3975201	C/D/S	6.5
S094		Hopi Tribe	9	532475	3976198	C/D/S	6.5
S095		Hopi Tribe	9	529469	3975857	C/D/S/IRR	6.5
S096		Hopi Tribe	9	542779	3975164	C/D/S	6.5
S097	BA DU WE SPRING	Hopi Tribe	9	542811	3978892	C/D/S	6.5
S098		Hopi Tribe	9	532884	3980667	C/D/S	6.5
S099		Hopi Tribe	9	532163	3972469	C/D/S	6.5
S0910		Hopi Tribe	9	542215	3962036	C/D/S	6.5
S0911		Hopi Tribe	9	543037	3962324	C/D/S	6.5
S0912	BROWN ROCK SPRING	Hopi Tribe	9	542239	3962375	C/D/S	6.5
S0913		Hopi Tribe	9	542606	3962889	C/D/S	6.5

Hopi Reservation Water Use Claim from Springs.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example S011, S for spring, 01 for plate number 1, and 1 for number
Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S0914		Hopi Tribe	9	542616	3962928	C/D/S	6.5
S0915		Hopi Tribe	9	543265	3962935	C/D/S	6.5
S0916		Hopi Tribe	9	542677	3963275	C/D/S	6.5
S0917		Hopi Tribe	9	542588	3963274	C/D/S	6.5
S0918		Hopi Tribe	9	541757	3963451	C/D/S	6.5
S0919		Hopi Tribe	9	543085	3963704	C/D/S	6.5
S0920		Hopi Tribe	9	544539	3965237	C/D/S	6.5
S0921		Hopi Tribe	9	541987	3965065	C/D/S	6.5
S0922		Hopi Tribe	9	539907	3967263	C/D/S	6.5
S0923		Hopi Tribe	9	542489	3967768	C/D/S	6.5
S0924		Hopi Tribe	9	542914	3967799	C/D/S	6.5
S0925		Hopi Tribe	9	542972	3967993	C/D/S	6.5
S0926		Hopi Tribe	9	530014	3963034	C&S	6.5
S0927		Hopi Tribe	9	525797	3975741	C/D/S	6.5
S0928		Hopi Tribe	9	528384	3972144	C/D/S	6.5
S0929		Hopi Tribe	9	528824	3973060	C/D/S	6.5
S0930		Hopi Tribe	9	532504	3976289	C/D/S	6.5
S0931		Hopi Tribe	9	530036	3976138	C/D/S	6.5
S0932		Hopi Tribe	9	533884	3971212	C/D/S	6.5
S0933		Hopi Tribe	9	540415	3980705	C/D/S	6.5
S0934		Hopi Tribe	9	543259	3961687	C/D/S	6.5
S0935		Hopi Tribe	9	543262	3961690	C/D/S	6.5
S0936		Hopi Tribe	9	543153	3962165	C&S	6.5
S101	GOAT SPRINGS	Hopi Tribe	10	545329	3976347	C/D/S	6.5
S102		Hopi Tribe	10	556217	3974758	C/D/S	6.5
S103		Hopi Tribe	10	546358	3983631	C/D/S	6.5
S104	SHEEP SP	Hopi Tribe	10	557247	3970162	C/D/S	6.5
S105	SAND HILL SP	Hopi Tribe	10	558916	3971775	C/D/S/IRR	6.5
S106		Hopi Tribe	10	557001	3971776	C/D/S/IRR	6.5
S107		Hopi Tribe	10	557252	3971904	C/D/S/IRR	12.9
S108		Hopi Tribe	10	557795	3972431	C/D/S	6.5
S109	FLY SP	Hopi Tribe	10	560543	3972218	C/D/S	6.5
S1010	SAND SP	Hopi Tribe	10	558321	3974668	C/D/S	6.5
S1011	UNNAMED SP	Hopi Tribe	10	558370	3974760	C/D/S	6.5
S1012		Hopi Tribe	10	559458	3976986	C/D/S	6.5
S1013	MANURE SP	Hopi Tribe	10	563269	3979557	C/D/S	6.5
S1014		Hopi Tribe	10	561067	3979893	C/D/S	6.5
S1015		Hopi Tribe	10	566726	3981978	C/D/S	6.5
S1016		Hopi Tribe	10	546674	3962213	C/D/S	6.5
S1017		Hopi Tribe	10	545347	3962252	C/D/S	6.5
S1018	DRIFTWOOD SP	Hopi Tribe	10	560351	3963651	C/D/S	6.5
S1019		Hopi Tribe	10	545643	3964054	C/D/S	6.5
S1020		Hopi Tribe	10	545639	3964662	C/D/S	6.5
S1021		Hopi Tribe	10	555224	3965139	C/D/S	6.5
S1022		Hopi Tribe	10	554606	3966029	C/D/S	6.5

Hopi Reservation Water Use Claim from Springs.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example S011, S for spring, 01 for plate number 1, and 1 for number
Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S1023		Hopi Tribe	10	554636	3966239	C/D/S	6.5
S1024		Hopi Tribe	10	555652	3965955	C/D/S/IRR	6.5
S1025		Hopi Tribe	10	556328	3966628	C/D/S	6.5
S1026		Hopi Tribe	10	556212	3969707	C/D/S	6.5
S1027		Hopi Tribe	10	565340	3957463	C/D/S	6.5
S1028	BUHU VA SP	Hopi Tribe	10	563208	3960744	C/D/S	6.5
S1029		Hopi Tribe	10	566243	3961013	C&S	6.5
S1030		Hopi Tribe	10	567311	3964731	C/D/S	6.5
S1031	WENI BAH SPRING	Hopi Tribe	10	561061	3969880	C/D/S	6.5
S1032	SKULL SPRING	Hopi Tribe	10	561322	3975551	C/D/S	6.5
S1033		Hopi Tribe	10	554482	3966144	C/D/S	6.5
S1034		Hopi Tribe	10	546679	3962443	C/D/S	6.5
S1035		Hopi Tribe	10	545389	3962443	C/D/S	6.5
S1036		Hopi Tribe	10	556735	3970007	C/D/S	6.5
S1037		Hopi Tribe	10	558183	3974754	C/D/S	6.5
S1038		Hopi Tribe	10	545447	3982359	C/D/S	6.5
S1039		Hopi Tribe	10	565348	3959303	C/D/S	6.5
S1040		Hopi Tribe	10	556896	3970087	C/D/S	6.5
S1041		Hopi Tribe	10	556815	3970007	C/D/S	6.5
S1042		Hopi Tribe	10	556134	3967095	C/D/S	6.5
S1043		Hopi Tribe	10	548608	3975881	C/D/S	6.5
S1044		Hopi Tribe	10	554723	3962765	C/D/S	6.5
S1045		Hopi Tribe	10	561136	3966214	C/D/S	6.5
S1046		Hopi Tribe	10	554195	3956981	C/D/S	6.5
S1047		Hopi Tribe	10	546012	3977873	C/D/S	6.5
S1048		Hopi Tribe	10	553913	3970419	C/D/S	6.5
S1049		Hopi Tribe	10	558300	3976972	C/D/S	6.5
S1050		Hopi Tribe	10	566755	3968795	C/D/S	6.5
S1051		Hopi Tribe	10	551800	3968096	C&S	6.5
S1052		Hopi Tribe	10	550828	3968134	C&S	6.5
S1053		Hopi Tribe	10	556134	3968390	C&S	6.5
S1054		Hopi Tribe	10	554054	3964705	C&S	6.5
S1055		Hopi Tribe	10	553639	3957747	C/D/S	6.5
S1056		Hopi Tribe	10	545253	3963196	C/D/S	6.5
S1057		Hopi Tribe	10	545331	3963532	C&S	6.5
S111		Hopi Tribe	11	574950	3972580	C/D/S	6.5
S112		Hopi Tribe	11	571591	3971633	C/D/S	6.5
S113	D. LALO SP	Hopi Tribe	11	578047	3971831	C/D/S	6.5
S114		Hopi Tribe	11	575304	3972924	C/D/S	6.5
S115		Hopi Tribe	11	586898	3973498	C&S	6.5
S116		Hopi Tribe	11	568814	3959738	C/D/S	6.5
S117		Hopi Tribe	11	569086	3960264	C/D/S	6.5
S118		Hopi Tribe	11	568527	3960621	C/D/S/IRR	6.5
S119		Hopi Tribe	11	570054	3962391	C/D/S/IRR	6.5
S1110		Hopi Tribe	11	569893	3962665	C/D/S	6.5

Hopi Reservation Water Use Claim from Springs.
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ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S1111		Hopi Tribe	11	572525	3963342	C&D	6.5
S1112		Hopi Tribe	11	573286	3962529	C&D	6.5
S1113		Hopi Tribe	11	574143	3962438	C&D	6.5
S1114		Hopi Tribe	11	575038	3962861	C/D/S	6.5
S1115		Hopi Tribe	11	575274	3963157	C/D/S	6.5
S1116		Hopi Tribe	11	575376	3963215	C&D	6.5
S1117		Hopi Tribe	11	575788	3963423	C&D	6.5
S1118		Hopi Tribe	11	575898	3963513	C&D	6.5
S1119		Hopi Tribe	11	577000	3964541	C/D/S	6.5
S1120		Hopi Tribe	11	574108	3966159	C/D/S	6.5
S1121		Hopi Tribe	11	574953	3967121	C&S	6.5
S1122	BYRON ADAMS SP	Hopi Tribe	11	577076	3968156	C/D/S	6.5
S1123		Hopi Tribe	11	576519	3968917	C/D/S	6.5
S1124		Hopi Tribe	11	570685	3967456	C&S	6.5
S1125		Hopi Tribe	11	586682	3963192	C/D/S	6.5
S1126		Hopi Tribe	11	587343	3962930	C/D/S	6.5
S1127	07H-27A	Hopi Tribe	11	587258	3963352	C/D/S	6.5
S1128		Hopi Tribe	11	575206	3963310	C/D/S	6.5
S1129		Hopi Tribe	11	575792	3972672	C/D/S	6.5
S1130		Hopi Tribe	11	570499	3967544	C/D/S	6.5
S1131		Hopi Tribe	11	570596	3964840	C&D	6.5
S1132		Hopi Tribe	11	571908	3963617	C&D	6.5
S1133		Hopi Tribe	11	568501	3960533	C/D/S/IRR	6.5
S1134		Hopi Tribe	11	575722	3974996	C&S	6.5
S121		Hopi Tribe	12	511654	3949611	C/D/S	6.5
S122		Hopi Tribe	12	506427	3952463	C/D/S/IRR	6.5
S123		Hopi Tribe	12	506412	3952482	C/D/S/IRR	6.5
S124		Hopi Tribe	12	506130	3953250	C/D/S/IRR	6.5
S125		Hopi Tribe	12	506055	3953342	C/D/S/IRR	6.5
S126		Hopi Tribe	12	503669	3952976	C/D/S	6.5
S127		Hopi Tribe	12	505500	3955591	C/D/S	6.5
S128		Hopi Tribe	12	505702	3955221	C&S	6.5
S129		Hopi Tribe	12	511885	3949859	C/D/S	6.5
S1210		Hopi Tribe	12	510533	3949451	C/D/S	6.5
S1211		Hopi Tribe	12	504509	3949560	C/D/S	6.5
S1212		Hopi Tribe	12	504732	3945470	C/D/S	6.5
S1213		Hopi Tribe	12	512023	3950016	C/D/S	6.5
S131		Hopi Tribe	13	523141	3947847	C/D/S	6.5
S132		Hopi Tribe	13	525945	3947511	C/D/S	6.5
S133		Hopi Tribe	13	527208	3949509	C/D/S	6.5
S134		Hopi Tribe	13	527803	3950371	C&S	6.5
S135		Hopi Tribe	13	528094	3950662	C/D/S	6.5
S136		Hopi Tribe	13	539495	3945376	C/D/S	6.5
S137		Hopi Tribe	13	541056	3946627	C/D/S/IRR	6.5
S138		Hopi Tribe	13	538897	3947985	C&S	6.5

Hopi Reservation Water Use Claim from Springs.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example S011, S for spring, 01 for plate number 1, and 1 for number
Uses nomenclature - C for cultural, D for domestic, S for livestock, IRR for irrigation

ID	Name	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (acre-feet)
S139		Hopi Tribe	13	530051	3944488	C/D/S	6.5
S1310		Hopi Tribe	13	523152	3947794	C/D/S	6.5
S1311		Hopi Tribe	13	540350	3947209	C/D/S	6.5
S1312		Hopi Tribe	13	527564	3950372	C&S	6.5
S141		Hopi Tribe	14	561416	3952630	C/D/S	6.5
S142		Hopi Tribe	14	565322	3953311	C/D/S	6.5
S143		Hopi Tribe	14	565486	3954582	C/D/S/IRR	6.5
S144		Hopi Tribe	14	551939	3930699	C/D/S	6.5
S145		Hopi Tribe	14	551927	3930946	C/D/S	6.5
S146		Hopi Tribe	14	552986	3931818	C/D/S	6.5
S147		Hopi Tribe	14	554004	3937698	C/D/S	6.5
S148		Hopi Tribe	14	559191	3930937	C/D/S	6.5
S149		Hopi Tribe	14	560634	3931314	C/D/S	6.5
S1410		Hopi Tribe	14	563730	3931785	C/D/S	6.5
S1411		Hopi Tribe	14	564151	3933976	C/D/S	6.5
S1412		Hopi Tribe	14	559323	3935416	C/D/S	6.5
S1413		Hopi Tribe	14	561808	3936549	C/D/S	6.5
S1414		Hopi Tribe	14	559291	3935416	C/D/S	6.5
S1415		Hopi Tribe	14	550051	3943253	C/D/S	6.5
S1416		Hopi Tribe	14	564983	3954197	C&S	6.5
S1417		Hopi Tribe	14	566054	3955253	C/D/S/IRR	6.5
S1418		Hopi Tribe	14	559277	3935438	C/D/S	6.5
S151		Hopi Tribe	15	589485	3950372	C/D/S	6.5
	Total Number of Springs	338				Total	2206.1

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example I011, I for impoundment, 01 for plate number 1, and 1 for number

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I011	Hopi Tribe	1	514570	4013396	Livestock	1.55	9.30	9.3
I012	Hopi Tribe	1	504868	4015016	Livestock	0.46	1.84	1.8
I013	Hopi Tribe	1	519354	4026993	Livestock	0.36	2.30	2.3
I014	Hopi Tribe	1	521003	4027275	Livestock	1.03	7.44	7.4
I015	Hopi Tribe	1	517489	4013313	Livestock	1.72	11.71	11.7
I016	Hopi Tribe	1	508255	4013233	Livestock	1.21	7.23	7.2
I017	Hopi Tribe	1	505388	4016503	Livestock	0.69	2.75	2.8
I018	Hopi Tribe	1	520461	4025432	Livestock	0.77	4.96	5.0
I019	Hopi Tribe	1	503844	4013696	Livestock	0.36	3.40	3.4
I0110	Hopi Tribe	1	521594	4020465	Livestock	0.80	5.46	5.5
I0111	Hopi Tribe	1	517646	4024317	Livestock	0.65	5.17	5.2
I0112	Hopi Tribe	1	512693	4018762	Livestock	0.34	1.65	1.7
I0113	Hopi Tribe	1	519102	4019195	Livestock	0.52	3.10	3.1
I0114	Hopi Tribe	1	522018	4019823	Livestock	0.69	4.96	5.0
I0115	Hopi Tribe	1	522148	4018038	Livestock	0.46	2.75	2.8
I0116	Hopi Tribe	1	521660	4023117	Livestock	1.29	9.30	9.3
I0117	Hopi Tribe	1	520030	4017567	Livestock	0.80	4.50	4.5
I0118	Hopi Tribe	1	511800	4015300	Livestock	0.40	2.09	2.1
I0119	Hopi Tribe	1	520700	4019110	Livestock	1.15	7.35	7.4
I0120	Hopi Tribe	1	520593	4018677	Livestock	1.08	7.32	7.3
I0121	Hopi Tribe	1	517184	4017660	Livestock	0.86	5.17	5.2
I0122	Hopi Tribe	1	521713	4012579	Livestock	0.23	0.73	0.7
I0123	Hopi Tribe	1	514400	4012808	Livestock	0.86	2.75	2.8
I0124	Hopi Tribe	1	516208	4021008	Livestock	0.29	1.95	2.0
I0125	Hopi Tribe	1	521832	4014987	Livestock	0.69	4.41	4.4
I0126	Hopi Tribe	1	519761	4013440	Livestock	0.52	2.89	2.9
I0127	Hopi Tribe	1	502831	4011837	Livestock	0.34	0.83	0.8
I021	Hopi Tribe	2	525594	4024702	Livestock	0.69	3.31	3.3
I022	Hopi Tribe	2	524980	4013420	Livestock	0.72	3.16	3.2
I023	Hopi Tribe	2	522870	4016564	Livestock	1.43	9.76	9.8
I024	Hopi Tribe	2	543718	4022434	Livestock	0.80	4.18	4.2
I025	Hopi Tribe	2	523288	4018041	Livestock	0.46	1.10	1.1
I026	Hopi Tribe	2	523495	4017953	Livestock	0.34	0.83	0.8
I027	Hopi Tribe	2	525918	4024115	Livestock	0.60	3.37	3.4
I028	Hopi Tribe	2	522643	4017573	Livestock	0.55	1.32	1.3
I029	Hopi Tribe	2	525693	4024669	Livestock	1.15	6.43	6.4
I0210	Hopi Tribe	2	538759	4017697	Livestock	0.34	1.65	1.7
I0211	Hopi Tribe	2	524451	4013175	Livestock	0.73	4.11	4.1
I0212	Hopi Tribe	2	524165	4019152	Livestock	0.62	3.22	3.2
I0213	Hopi Tribe	2	524138	4019064	Livestock	0.45	2.51	2.5
I0214	Hopi Tribe	2	525744	4016539	Livestock	0.41	2.48	2.5
I0215	Hopi Tribe	2	523196	4015456	Livestock	0.69	4.41	4.4
I031	Hopi Tribe	3	554866	4017661	Livestock	1.72	8.95	9.0
I032	Hopi Tribe	3	551683	4012429	Livestock	0.57	2.30	2.3
I033	Hopi Tribe	3	551654	4012772	Livestock	0.51	1.21	1.2
I034	Hopi Tribe	3	550188	4020861	Livestock	0.86	4.13	4.1
I035	Hopi Tribe	3	552182	4020573	Livestock	1.81	9.40	9.4
I036	Hopi Tribe	3	552180	4020851	Livestock	0.28	1.11	1.1

APPENDIX 6

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example I011, I for impoundment, 01 for plate number 1, and 1 for number

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I037	Hopi Tribe	3	552488	4027874	Livestock	0.23	1.10	1.1
I038	Hopi Tribe	3	556136	4029561	Livestock	0.26	1.45	1.5
I039	Hopi Tribe	3	555815	4029281	Livestock	0.34	2.07	2.1
I0310	Hopi Tribe	3	555440	4029090	Livestock	0.69	3.31	3.3
I0311	Hopi Tribe	3	552516	4027752	Livestock	1.77	21.21	21.2
I0312	Hopi Tribe	3	556333	4029651	Livestock	0.69	3.86	3.9
I0313	Hopi Tribe	3	555170	4029122	Livestock	0.69	4.96	5.0
I0314	Hopi Tribe	3	552460	4028029	Livestock	0.69	3.58	3.6
I0315	Hopi Tribe	3	555207	4023365	Livestock	0.30	1.45	1.5
I0316	Hopi Tribe	3	560582	4031066	Livestock	0.60	4.78	4.8
I041	Hopi Tribe	4	476648	3989005	Livestock		8.02	8.0
I042	Hopi Tribe	4	491534	3991599	Livestock		8.02	8.0
I043	Hopi Tribe	4	485025	3986863	Livestock		8.02	8.0
I051	Hopi Tribe	5	508932	4010006	Livestock	0.08	0.10	0.1
I052	Hopi Tribe	5	508482	4011203	Livestock	1.38	6.61	6.6
I053	Hopi Tribe	5	501869	4010645	Livestock	0.32	0.77	0.8
I054	Hopi Tribe	5	502147	4011166	Livestock	0.11	0.28	0.3
I055	Hopi Tribe	5	502221	4002970	Livestock	0.13	0.15	0.2
I056	Hopi Tribe	5	501995	4010212	Livestock	0.43	1.72	1.7
I057	Hopi Tribe	5	514099	4010290	Livestock	0.23	0.92	0.9
I058	Hopi Tribe	5	512930	4010466	Livestock	1.81	10.12	10.1
I059	Hopi Tribe	5	501375	4008271	Livestock	24.79	218.18	218.2
I0510	Hopi Tribe	5	508284	4011392	Livestock	0.69	2.75	2.8
I0511	Hopi Tribe	5	502821	4011044	Livestock	1.10	6.17	6.2
I0512	Hopi Tribe	5	508032	4011414	Livestock	0.92	7.70	7.7
I0513	Hopi Tribe	5	506867	4007908	Livestock	1.15	6.43	6.4
I0514	Hopi Tribe	5	500702	3991822	Livestock	0.92	5.14	5.1
I0515	Hopi Tribe	5	504630	3988774	Livestock	6.89	44.08	44.1
I0516	Hopi Tribe	5	505458	3989539	Livestock	2.87	18.37	18.4
I0517	Hopi Tribe	5	516318	3985981	Livestock	1.38	6.06	6.1
I0518	Hopi Tribe	5	507617	4003128	Livestock	1.03	4.13	4.1
I0519	Hopi Tribe	5	515145	3997315	Livestock	0.46	2.20	2.2
I0520	Hopi Tribe	5	519142	3988549	Livestock	0.23	0.46	0.5
I0521	Hopi Tribe	5	516446	3985216	Livestock	0.69	3.31	3.3
I0522	Hopi Tribe	5	515922	3985703	Livestock	1.15	6.43	6.4
I0523	Hopi Tribe	5	519919	3987719	Livestock	0.92	4.41	4.4
I0524	Hopi Tribe	5	520171	3987775	Livestock	0.69	3.31	3.3
I0525	Hopi Tribe	5	516473	3985427	Livestock	1.72	8.95	9.0
I0526	Hopi Tribe	5	512490	3985454	Livestock	0.52	5.30	5.3
I0527	Hopi Tribe	5	521144	3987844	Livestock	1.84	12.49	12.5
I0528	Hopi Tribe	5	502630	3988529	Livestock	0.36	2.61	2.6
I0529	Hopi Tribe	5	511755	3995612	Livestock	0.60	2.89	2.9
I0530	Hopi Tribe	5	513206	3994539	Livestock	1.21	5.79	5.8
I0531	Hopi Tribe	5	517231	3993658	Livestock	0.86	3.79	3.8
I0532	Hopi Tribe	5	513957	3992078	Livestock	0.45	1.79	1.8
I0533	Hopi Tribe	5	519017	3988238	Livestock	0.34	1.65	1.7
I0534	Hopi Tribe	5	518946	3987617	Livestock	1.61	9.64	9.6
I0535	Hopi Tribe	5	518596	3987162	Livestock	1.16	5.11	5.1

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I0536	Hopi Tribe	5	517894	3986506	Livestock	0.46	2.39	2.4
I0537	Hopi Tribe	5	516191	3986902	Livestock	5.74	45.91	45.9
I0538	Hopi Tribe	5	520596	3987255	Livestock	0.46	2.02	2.0
I0539	Hopi Tribe	5	518402	4006261	Livestock	1.03	6.20	6.2
I0540	Hopi Tribe	5	519498	4006629	Livestock	0.52	2.89	2.9
I0541	Hopi Tribe	5	521474	4007554	Livestock	1.21	7.23	7.2
I0542	Hopi Tribe	5	518721	4008358	Livestock	1.74	12.50	12.5
I0543	Hopi Tribe	5	511536	4004485	Livestock	0.23	1.10	1.1
I0544	Hopi Tribe	5	518483	4006294	Livestock	0.34	1.93	1.9
I0545	Hopi Tribe	5	517855	4005794	Livestock	1.87	16.41	16.4
I0546	Hopi Tribe	5	509061	4007078	Livestock	0.48	1.16	1.2
I0547	Hopi Tribe	5	506195	4004735	Livestock	0.86	4.13	4.1
I0548	Hopi Tribe	5	506841	4006022	Livestock	1.38	6.61	6.6
I0549	Hopi Tribe	5	507667	4007875	Livestock	1.72	8.95	9.0
I0550	Hopi Tribe	5	508711	4006212	Livestock	0.26	1.03	1.0
I0551	Hopi Tribe	5	508837	4006490	Livestock	0.92	4.41	4.4
I0552	Hopi Tribe	5	509246	4001710	Livestock	1.15	5.97	6.0
I0553	Hopi Tribe	5	508570	4003251	Livestock	0.69	2.75	2.8
I0554	Hopi Tribe	5	511339	4004208	Livestock	0.92	5.51	5.5
I0555	Hopi Tribe	5	516775	4010750	Livestock	0.65	3.36	3.4
I0556	Hopi Tribe	5	509528	4001959	Livestock		0.70	0.7
I0557	Hopi Tribe	5	509745	4001531	Livestock		0.70	0.7
I0558	Hopi Tribe	5	510523	4001742	Livestock		4.00	4.0
I0559	Hopi Tribe	5	520765	4010815	Livestock		1.50	1.5
I061	Hopi Tribe	6	536835	3988351	Livestock	1.43	12.90	12.9
I062	Hopi Tribe	6	530710	3985621	Livestock	2.81	13.49	13.5
I063	Hopi Tribe	6	529400	3989432	Livestock	0.13	0.41	0.4
I064	Hopi Tribe	6	541879	4001683	Livestock	0.23	1.01	1.0
I065	Hopi Tribe	6	522627	3985563	Livestock	0.92	4.41	4.4
I066	Hopi Tribe	6	538027	4002220	Livestock	1.15	6.89	6.9
I067	Hopi Tribe	6	536862	4005454	Livestock	0.92	6.24	6.2
I068	Hopi Tribe	6	535838	3998673	Livestock	0.46	2.39	2.4
I069	Hopi Tribe	6	541517	4007760	Livestock	0.60	3.58	3.6
I0610	Hopi Tribe	6	539468	4003768	Livestock	1.38	8.82	8.8
I0611	Hopi Tribe	6	535727	4001600	Livestock	1.38	11.02	11.0
I0612	Hopi Tribe	6	525430	4004115	Livestock	0.29	1.38	1.4
I0613	Hopi Tribe	6	530497	4010454	Livestock	0.92	4.78	4.8
I0614	Hopi Tribe	6	525841	3989642	Livestock	2.58	14.46	14.5
I0615	Hopi Tribe	6	530131	3994093	Livestock	2.41	13.50	13.5
I0616	Hopi Tribe	6	524513	3991180	Livestock	0.70	4.50	4.5
I0617	Hopi Tribe	6	532958	4001190	Livestock	1.38	8.82	8.8
I0618	Hopi Tribe	6	522966	4010886	Livestock	0.70	4.50	4.5
I0619	Hopi Tribe	6	527102	4004309	Livestock	0.69	4.68	4.7
I0620	Hopi Tribe	6	536409	3999751	Livestock	0.92	8.08	8.1
I0621	Hopi Tribe	6	544030	3985433	Livestock	1.38	4.41	4.4
I0622	Hopi Tribe	6	543704	3985709	Livestock	0.20	0.73	0.7
I0623	Hopi Tribe	6	539356	3984668	Livestock	2.75	15.43	15.4
I0624	Hopi Tribe	6	544558	3984327	Livestock	1.01	4.85	4.9

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I071	Hopi Tribe	7	548726	4001386	Livestock	0.23	1.10	1.1
I072	Hopi Tribe	7	545823	4000938	Livestock	0.23	1.10	1.1
I073	Hopi Tribe	7	548471	4001939	Livestock	0.23	1.10	1.1
I074	Hopi Tribe	7	546905	4000389	Livestock	0.46	2.20	2.2
I075	Hopi Tribe	7	547510	4000115	Livestock	5.17	37.19	37.2
I076	Hopi Tribe	7	549345	4001700	Livestock	0.23	1.10	1.1
I077	Hopi Tribe	7	546901	4001254	Livestock	0.34	1.63	1.6
I078	Hopi Tribe	7	549409	4003109	Livestock	3.73	22.38	22.4
I079	Hopi Tribe	7	550584	4003648	Livestock	0.23	1.19	1.2
I0710	Hopi Tribe	7	548933	4004648	Livestock	0.29	1.38	1.4
I0711	Hopi Tribe	7	548879	4004648	Livestock	0.70	3.94	3.9
I0712	Hopi Tribe	7	548432	4004124	Livestock	0.29	1.49	1.5
I0713	Hopi Tribe	7	554108	3987830	Livestock	0.86	5.17	5.2
I0714	Hopi Tribe	7	551059	3990030	Livestock	1.38	8.26	8.3
I0715	Hopi Tribe	7	552572	3988653	Livestock	1.61	6.43	6.4
I0716	Hopi Tribe	7	551170	3989565	Livestock	0.40	0.96	1.0
I0717	Hopi Tribe	7	549488	3989189	Livestock	1.72	8.95	9.0
I0718	Hopi Tribe	7	546999	3987878	Livestock	0.52	2.89	2.9
I0719	Hopi Tribe	7	551811	3986308	Livestock	1.72	13.77	13.8
I0720	Hopi Tribe	7	547514	3984276	Livestock	0.92	5.14	5.1
I0721	Hopi Tribe	7	546225	3987752	Livestock	0.70	3.66	3.7
I0722	Hopi Tribe	7	547687	3985730	Livestock	0.52	4.50	4.5
I0723	Hopi Tribe	7	549940	3985709	Livestock	1.89	12.12	12.1
I0724	Hopi Tribe	7	550283	3990270	Livestock	0.27	0.80	0.8
I0725	Hopi Tribe	7	547666	3989578	Livestock	0.70	3.94	3.9
I0726	Hopi Tribe	7	556228	3984605	Livestock	0.69	3.31	3.3
I0727	Hopi Tribe	7	548523	3985562	Livestock		6.40	6.4
I081	Hopi Tribe	8	520228	3982629	Livestock	2.75	12.12	12.1
I082	Hopi Tribe	8	519684	3971725	Livestock	0.52	2.48	2.5
I083	Hopi Tribe	8	517534	3977455	Livestock	0.92	5.14	5.1
I084	Hopi Tribe	8	519909	3979955	Livestock	0.69	3.31	3.3
I085	Hopi Tribe	8	518916	3976371	Livestock	0.52	2.48	2.5
I086	Hopi Tribe	8	518735	3980906	Livestock	2.30	5.50	5.5
I087	Hopi Tribe	8	519008	3971224	Livestock	0.34	0.55	0.6
I088	Hopi Tribe	8	518030	3982036	Livestock	0.40	1.93	1.9
I089	Hopi Tribe	8	515665	3973259	Livestock	1.43	8.03	8.0
I0810	Hopi Tribe	8	520885	3983030	Livestock	1.15	5.51	5.5
I0811	Hopi Tribe	8	520785	3983285	Livestock	0.86	4.48	4.5
I0812	Hopi Tribe	8	520154	3983283	Livestock	2.75	19.83	19.8
I0813	Hopi Tribe	8	521532	3983708	Livestock	0.92	11.20	11.2
I0814	Hopi Tribe	8	514685	3960281	Livestock	4.59	27.55	27.6
I0815	Hopi Tribe	8	516031	3980624	Livestock	0.46	0.92	0.9
I0816	Hopi Tribe	8	517244	3973594	Livestock	3.44	6.89	6.9
I0817	Hopi Tribe	8	519081	3971047	Livestock	0.11	0.18	0.2
I0818	Hopi Tribe	8	517806	3981359	Livestock	0.52	2.89	2.9
I0819	Hopi Tribe	8	518348	3971933	Livestock	0.92	8.50	8.5
I0820	Hopi Tribe	8	517754	3970945	Livestock	0.69	3.86	3.9
I0821	Hopi Tribe	8	507316	3975921	Livestock	0.23	0.73	0.7

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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I0822	Hopi Tribe	8	507092	3974512	Livestock	12.40	123.97	124.0
I0823	Hopi Tribe	8	514515	3970173	Livestock	0.92	5.14	5.1
I0824	Hopi Tribe	8	515497	3971218	Livestock	0.70	3.94	3.9
I0825	Hopi Tribe	8	512610	3970880	Livestock	0.23	0.46	0.5
I0826	Hopi Tribe	8	513329	3960345	Livestock	1.89	9.85	9.9
I0827	Hopi Tribe	8	513177	3959324	Livestock	5.51	48.48	48.5
I0828	Hopi Tribe	8	515495	3956988	Livestock	0.86	4.13	4.1
I0829	Hopi Tribe	8	510991	3965765	Livestock	1.84	8.82	8.8
I0830	Hopi Tribe	8	509331	3963878	Livestock	1.15	6.89	6.9
I0831	Hopi Tribe	8	507680	3961414	Livestock	1.72	6.89	6.9
I0832	Hopi Tribe	8	507628	3958985	Livestock	0.36	1.72	1.7
I0833	Hopi Tribe	8	520611	3968921	Livestock	0.72	2.87	2.9
I0834	Hopi Tribe	8	517352	3969191	Livestock	0.92	4.41	4.4
I0835	Hopi Tribe	8	521748	3965541	Livestock	0.70	4.50	4.5
I0836	Hopi Tribe	8	512216	3968040	Livestock	0.92	5.80	5.8
I0837	Hopi Tribe	8	512700	3964193	Livestock	0.39	1.86	1.9
I0838	Hopi Tribe	8	513132	3959202	Livestock	0.05	0.25	0.3
I0839	Hopi Tribe	8	511546	3963115	Livestock	0.92	8.30	8.3
I0840	Hopi Tribe	8	517144	3959797	Livestock	0.86	3.44	3.4
I0841	Hopi Tribe	8	515643	3960593	Livestock	1.89	12.88	12.9
I0842	Hopi Tribe	8	514938	3960348	Livestock	0.52	4.70	4.7
I0843	Hopi Tribe	8	512042	3963205	Livestock	0.92	7.90	7.9
I0844	Hopi Tribe	8	501552	3975430	Livestock	2.01	9.64	9.6
I0845	Hopi Tribe	8	506259	3978205	Livestock	0.69	2.75	2.8
I0846	Hopi Tribe	8	500126	3983903	Livestock	0.92	4.41	4.4
I0847	Hopi Tribe	8	512120	3979353	Livestock	2.30	15.61	15.6
I0848	Hopi Tribe	8	514946	3982030	Livestock	0.69	3.31	3.3
I0849	Hopi Tribe	8	511523	3980273	Livestock	1.03	6.20	6.2
I0850	Hopi Tribe	8	512698	3978422	Livestock	1.38	9.92	9.9
I0851	Hopi Tribe	8	512020	3979508	Livestock	0.34	1.38	1.4
I0852	Hopi Tribe	8	512171	3981327	Livestock	1.84	13.22	13.2
I0853	Hopi Tribe	8	509922	3976666	Livestock	3.21	21.85	21.9
I0854	Hopi Tribe	8	507438	3981067	Livestock	1.86	8.93	8.9
I0855	Hopi Tribe	8	506058	3982608	Livestock	0.46	6.10	6.1
I0856	Hopi Tribe	8	505129	3982918	Livestock	4.02	48.21	48.2
I0857	Hopi Tribe	8	503506	3982762	Livestock	1.21	7.71	7.7
I0858	Hopi Tribe	8	501253	3982916	Livestock	0.69	4.41	4.4
I0859	Hopi Tribe	8	511195	3983079	Livestock	0.77	4.96	5.0
I0860	Hopi Tribe	8	506690	3980856	Livestock	1.89	11.36	11.4
I0861	Hopi Tribe	8	505562	3982330	Livestock	2.84	17.05	17.1
I0862	Hopi Tribe	8	515364	3975232	Livestock	0.23	0.92	0.9
I0863	Hopi Tribe	8	521170	3957987	Livestock	0.69	3.31	3.3
I0864	Hopi Tribe	8	521137	3960515	Livestock	1.61	9.64	9.6
I0865	Hopi Tribe	8	520242	3956598	Livestock	0.57	2.75	2.8
I0866	Hopi Tribe	8	516159	3978650	Livestock	0.92	5.14	5.1
I091	Hopi Tribe	9	522863	3971023	Livestock	0.70	3.94	3.9
I092	Hopi Tribe	9	524414	3981164	Livestock	0.92	2.20	2.2
I093	Hopi Tribe	9	524509	3982862	Livestock	0.52	2.89	2.9

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I094	Hopi Tribe	9	537408	3982785	Livestock	0.41	1.82	1.8
I095	Hopi Tribe	9	538417	3974837	Livestock	1.89	7.58	7.6
I096	Hopi Tribe	9	537896	3974158	Livestock	2.75	15.43	15.4
I097	Hopi Tribe	9	540939	3977710	Livestock	0.92	4.41	4.4
I098	Hopi Tribe	9	541771	3977226	Livestock	0.92	5.14	5.1
I099	Hopi Tribe	9	533612	3959567	Livestock	0.28	0.99	1.0
I0910	Hopi Tribe	9	535803	3958500	Livestock	1.49	8.36	8.4
I0911	Hopi Tribe	9	523243	3960454	Livestock	0.86	4.48	4.5
I0912	Hopi Tribe	9	526206	3960684	Livestock	2.84	3.41	3.4
I0913	Hopi Tribe	9	523015	3961163	Livestock	0.57	2.98	3.0
I0914	Hopi Tribe	9	530157	3965621	Livestock	5.06	5.06	5.1
I0915	Hopi Tribe	9	533002	3963014	Livestock	4.13	19.83	19.8
I0916	Hopi Tribe	9	533570	3965756	Livestock	0.60	2.65	2.7
I0917	Hopi Tribe	9	531387	3957341	Livestock	3.44	23.42	23.4
I0918	Hopi Tribe	9	530959	3958171	Livestock	1.84	11.02	11.0
I0919	Hopi Tribe	9	535187	3956678	Livestock	0.52	2.69	2.7
I0920	Hopi Tribe	9	529506	3957611	Livestock	0.52	3.90	3.9
I0921	Hopi Tribe	9	543812	3978522	Livestock	0.13	0.46	0.5
I0922	Hopi Tribe	9	524151	3958826	Livestock	0.46	1.84	1.8
I0923	Hopi Tribe	9	538018	3975146	Livestock	1.38	5.51	5.5
I0924	Hopi Tribe	9	543414	3978709	Livestock	0.13	0.46	0.5
I0925	Hopi Tribe	9	542792	3982310	Livestock	16.00	160.00	160.0
I0926	Hopi Tribe	9	542745	3982809	Livestock	3.44	17.91	17.9
I0927	Hopi Tribe	9	544195	3972246	Livestock	0.57	2.30	2.3
I0928	Hopi Tribe	9	544194	3972402	Livestock	1.21	6.75	6.8
I0929	Hopi Tribe	9	540561	3983198	Livestock	0.69	2.75	2.8
I0930	Hopi Tribe	9	540989	3982457	Livestock	2.01	9.64	9.6
I0931	Hopi Tribe	9	523260	3964092	Livestock	2.81	21.36	21.4
I0932	Hopi Tribe	9	529482	3956657	Livestock	0.92	8.90	8.9
I0933	Hopi Tribe	9	541622	3981906	Livestock	1.16	12.00	12.0
I0934	Hopi Tribe	9	538719	3957281	Livestock	0.57	1.84	1.8
I0935	Hopi Tribe	9	538493	3957280	Livestock	0.46	1.47	1.5
I0936	Hopi Tribe	9	544800	3972249	Livestock	0.09	0.21	0.2
I0937	Hopi Tribe	9	538157	3973668	Livestock		4.40	4.4
I101	Hopi Tribe	10	562025	3957380	Livestock	1.15	5.97	6.0
I102	Hopi Tribe	10	551050	3983774	Livestock	1.74	9.03	9.0
I103	Hopi Tribe	10	548577	3982773	Livestock	2.75	16.53	16.5
I104	Hopi Tribe	10	545924	3981561	Livestock	0.92	8.40	8.4
I105	Hopi Tribe	10	548631	3981143	Livestock	1.15	6.43	6.4
I106	Hopi Tribe	10	547548	3978120	Livestock	0.43	1.55	1.6
I107	Hopi Tribe	10	547478	3977743	Livestock	1.26	7.58	7.6
I108	Hopi Tribe	10	545358	3975946	Livestock	1.61	10.28	10.3
I109	Hopi Tribe	10	545207	3975579	Livestock	0.29	1.26	1.3
I1010	Hopi Tribe	10	561552	3968124	Livestock	3.21	3.86	3.9
I1011	Hopi Tribe	10	563648	3969348	Livestock	0.34	1.65	1.7
I1012	Hopi Tribe	10	563999	3969406	Livestock	1.61	6.43	6.4
I1013	Hopi Tribe	10	564525	3969166	Livestock	1.72	8.26	8.3
I1014	Hopi Tribe	10	567470	3964130	Livestock	0.52	1.86	1.9

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I1015	Hopi Tribe	10	567674	3967060	Livestock	0.34	1.38	1.4
I1016	Hopi Tribe	10	567314	3969276	Livestock	0.34	1.65	1.7
I1017	Hopi Tribe	10	567107	3969219	Livestock	0.26	1.03	1.0
I1018	Hopi Tribe	10	567015	3962252	Livestock	0.23	0.83	0.8
I1019	Hopi Tribe	10	557797	3966557	Livestock	0.23	2.20	2.2
I1020	Hopi Tribe	10	564056	3978957	Livestock	0.57	3.44	3.4
I1021	Hopi Tribe	10	566501	3980029	Livestock	1.21	6.27	6.3
I1022	Hopi Tribe	10	561514	3976266	Livestock	1.03	4.96	5.0
I1023	Hopi Tribe	10	565239	3975083	Livestock	1.72	10.33	10.3
I1024	Hopi Tribe	10	566200	3973271	Livestock	0.26	0.83	0.8
I1025	Hopi Tribe	10	563512	3970634	Livestock	0.39	1.86	1.9
I1026	Hopi Tribe	10	551594	3958633	Livestock	0.50	2.21	2.2
I1027	Hopi Tribe	10	562487	3970017	Livestock	0.92	5.14	5.1
I1028	Hopi Tribe	10	563662	3963647	Livestock	1.38	2.20	2.2
I1029	Hopi Tribe	10	558645	3959886	Livestock	0.52	2.69	2.7
I1030	Hopi Tribe	10	560429	3959432	Livestock	1.29	7.23	7.2
I1031	Hopi Tribe	10	560838	3961742	Livestock	1.81	14.46	14.5
I1032	Hopi Tribe	10	560580	3959866	Livestock	0.72	3.74	3.7
I1033	Hopi Tribe	10	559475	3966879	Livestock	0.34	1.10	1.1
I1034	Hopi Tribe	10	558342	3963333	Livestock	0.72	4.05	4.1
I1035	Hopi Tribe	10	553573	3960153	Livestock	1.38	7.16	7.2
I1036	Hopi Tribe	10	553534	3957657	Livestock	4.59	45.91	45.9
I1037	Hopi Tribe	10	551367	3980504	Livestock	0.23	0.92	0.9
I1038	Hopi Tribe	10	553783	3974640	Livestock	1.87	10.45	10.5
I1039	Hopi Tribe	10	555309	3978864	Livestock	2.75	22.00	22.0
I1040	Hopi Tribe	10	546446	3973334	Livestock	1.81	10.12	10.1
I1041	Hopi Tribe	10	553880	3975073	Livestock	15.38	172.26	172.3
I1042	Hopi Tribe	10	552174	3979744	Livestock	1.42	5.68	5.7
I1043	Hopi Tribe	10	550986	3977829	Livestock	1.89	11.36	11.4
I1044	Hopi Tribe	10	552665	3977528	Livestock	1.72	13.30	13.3
I1045	Hopi Tribe	10	549552	3974582	Livestock	4.82	34.70	34.7
I1046	Hopi Tribe	10	563676	3982870	Livestock	0.59	2.82	2.8
I1047	Hopi Tribe	10	548374	3973810	Livestock	0.57	2.75	2.8
I1048	Hopi Tribe	10	548911	3971406	Livestock	0.69	3.58	3.6
I1049	Hopi Tribe	10	546191	3970282	Livestock	0.69	4.13	4.1
I1050	Hopi Tribe	10	551418	3976412	Livestock	1.72	8.95	9.0
I1051	Hopi Tribe	10	566107	3982122	Livestock	0.23	0.92	0.9
I1052	Hopi Tribe	10	552954	3962490	Livestock	1.61	10.93	10.9
I1053	Hopi Tribe	10	553694	3963859	Livestock	0.29	1.03	1.0
I1054	Hopi Tribe	10	553080	3967027	Livestock	1.61	3.86	3.9
I1055	Hopi Tribe	10	559053	3977225	Livestock	0.92	3.31	3.3
I1056	Hopi Tribe	10	557789	3976085	Livestock	1.38	6.61	6.6
I1057	Hopi Tribe	10	545500	3972963	Livestock	0.39	1.86	1.9
I1058	Hopi Tribe	10	565528	3982395	Livestock	0.92	3.31	3.3
I1059	Hopi Tribe	10	563877	3982505	Livestock	0.74	3.27	3.3
I1060	Hopi Tribe	10	558428	3981790	Livestock	1.55	31.50	31.5
I1061	Hopi Tribe	10	558810	3975815	Livestock	1.38	5.51	5.5
I1062	Hopi Tribe	10	557897	3974755	Livestock	0.39	1.70	1.7

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I1063	Hopi Tribe	10	557107	3972753	Livestock	0.32	1.67	1.7
I111	Hopi Tribe	11	589911	3961590	Livestock	0.11	0.32	0.3
I112	Hopi Tribe	11	588246	3959998	Livestock	1.51	5.42	5.4
I113	Hopi Tribe	11	588348	3965179	Livestock	2.30	12.88	12.9
I114	Hopi Tribe	11	584957	3956982	Livestock	1.21	3.37	3.4
I115	Hopi Tribe	11	588375	3964226	Livestock	0.69	0.83	0.8
I116	Hopi Tribe	11	589653	3967378	Livestock	14.92	59.68	59.7
I117	Hopi Tribe	11	586581	3962910	Livestock	2.30	18.40	18.4
I118	Hopi Tribe	11	586355	3962908	Livestock	2.30	13.77	13.8
I119	Hopi Tribe	11	585094	3961631	Livestock	4.82	32.78	32.8
I1110	Hopi Tribe	11	587039	3967818	Livestock	6.43	51.42	51.4
I1111	Hopi Tribe	11	577819	3971891	Livestock	0.08	0.15	0.2
I1112	Hopi Tribe	11	577357	3964866	Livestock, Recreation	8.26	92.56	92.6
I1113	Hopi Tribe	11	574888	3962959	Livestock, Recreation	1.03	7.44	7.4
I1114	Hopi Tribe	11	574408	3963110	Livestock	0.40	1.29	1.3
I1115	Hopi Tribe	11	573402	3963567	Livestock	0.34	1.93	1.9
I1116	Hopi Tribe	11	572296	3963924	Livestock	0.46	2.75	2.8
I1117	Hopi Tribe	11	573258	3962335	Livestock	0.33	0.93	0.9
I1118	Hopi Tribe	11	576052	3964200	Livestock	1.81	11.57	11.6
I1119	Hopi Tribe	11	577103	3964919	Livestock, Recreation	1.29	12.40	12.4
I1120	Hopi Tribe	11	571393	3967333	Livestock	0.41	1.65	1.7
I1121	Hopi Tribe	11	577177	3964764	Livestock	1.72	11.02	11.0
I1122	Hopi Tribe	11	577526	3968217	Livestock	0.86	8.30	8.3
I1123	Hopi Tribe	11	577030	3970187	Livestock	0.51	2.63	2.6
I1124	Hopi Tribe	11	569662	3959988	Livestock	0.86	5.17	5.2
I1125	Hopi Tribe	11	575687	3966814	Livestock	1.38	7.71	7.7
I1126	Hopi Tribe	11	577110	3967204	Livestock	0.36	1.15	1.2
I1127	Hopi Tribe	11	574054	3969829	Livestock	0.39	2.02	2.0
I1128	Hopi Tribe	11	568052	3963735	Livestock	0.86	6.20	6.2
I1129	Hopi Tribe	11	573015	3976475	Livestock	1.72	8.26	8.3
I1130	Hopi Tribe	11	574115	3962553	Livestock, Recreation	3.16	27.78	27.8
I1131	Hopi Tribe	11	569262	3969601	Livestock	0.69	2.75	2.8
I1132	Hopi Tribe	11	568198	3964690	Livestock	0.46	2.57	2.6
I1133	Hopi Tribe	11	571177	3959268	Livestock	0.34	2.20	2.2
I1134	Hopi Tribe	11	570746	3960152	Livestock	0.28	1.10	1.1
I1135	Hopi Tribe	11	569399	3962393	Livestock	1.03	6.61	6.6
I1136	Hopi Tribe	11	569966	3962674	Livestock	0.34	1.38	1.4
I1137	Hopi Tribe	11	570094	3962487	Livestock	0.28	1.89	1.9
I1138	Hopi Tribe	11	579123	3969318	Livestock	1.29	6.20	6.2
I1139	Hopi Tribe	11	573467	3962182	Livestock	0.34	1.10	1.1
I1140	Hopi Tribe	11	584064	3969109	Livestock	0.92	4.78	4.8
I1141	Hopi Tribe	11	582149	3967249	Livestock	0.69	2.20	2.2
I1142	Hopi Tribe	11	575324	3973378	Livestock	0.52	5.10	5.1
I1143	Hopi Tribe	11	569589	3979587	Livestock	0.92	3.67	3.7
I1144	Hopi Tribe	11	569105	3973416	Livestock	1.10	2.64	2.6
I1145	Hopi Tribe	11	571490	3973157	Livestock	1.94	6.20	6.2
I1146	Hopi Tribe	11	577071	3971696	Livestock	0.11	0.31	0.3
I1147	Hopi Tribe	11	577468	3971733	Livestock	0.09	0.22	0.2

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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I1148	Hopi Tribe	11	577975	3982741	Livestock	2.41	8.68	8.7
I1149	Hopi Tribe	11	578846	3972111	Livestock	0.34	1.65	1.7
I1150	Hopi Tribe	11	578945	3972090	Livestock	0.06	0.18	0.2
I1151	Hopi Tribe	11	580794	3970321	Livestock	2.07	15.70	15.7
I1152	Hopi Tribe	11	575092	3974086	Livestock	0.28	1.00	1.0
I1153	Hopi Tribe	11	574744	3971432	Livestock	0.86	4.48	4.5
I1154	Hopi Tribe	11	571012	3976459	Livestock	0.52	4.60	4.6
I1155	Hopi Tribe	11	574899	3973441	Livestock	0.14	0.44	0.4
I1156	Hopi Tribe	11	583103	3970553	Livestock	0.70	7.90	7.9
I1157	Hopi Tribe	11	571369	3975785	Livestock	1.38	8.26	8.3
I1158	Hopi Tribe	11	584018	3973956	Livestock	2.30	15.64	15.6
I1159	Hopi Tribe	11	581915	3974025	Livestock	1.15	4.60	4.6
I1160	Hopi Tribe	11	580806	3971918	Livestock	0.69	4.14	4.1
I1161	Hopi Tribe	11	583299	3970832	Livestock	12.86	61.73	61.7
I1162	Hopi Tribe	11	567755	3983543	Livestock	0.69	3.03	3.0
I1163	Hopi Tribe	11	567930	3982990	Livestock	1.51	6.63	6.6
I1164	Hopi Tribe	11	576097	3965141	Livestock		0.26	0.3
I121	Hopi Tribe	12	513918	3954124	Livestock	1.61	10.28	10.3
I122	Hopi Tribe	12	510852	3954120	Livestock	0.69	3.58	3.6
I123	Hopi Tribe	12	505028	3954480	Livestock	1.72	10.33	10.3
I124	Hopi Tribe	12	504450	3952417	Livestock	1.61	8.36	8.4
I125	Hopi Tribe	12	500932	3948468	Livestock	1.16	8.10	8.1
I126	Hopi Tribe	12	504071	3950232	Livestock	4.02	32.16	32.2
I127	Hopi Tribe	12	506733	3947550	Livestock	5.62	67.49	67.5
I128	Hopi Tribe	12	507168	3946996	Livestock	1.38	8.82	8.8
I129	Hopi Tribe	12	506164	3946407	Livestock	4.13	34.71	34.7
I1210	Hopi Tribe	12	500525	3946106	Livestock	1.38	6.61	6.6
I1211	Hopi Tribe	12	511518	3942875	Livestock	5.17	45.50	45.5
I1212	Hopi Tribe	12	513990	3954213	Livestock	1.43	6.89	6.9
I1213	Hopi Tribe	12	513147	3931043	Livestock	0.70	18.80	18.8
I1214	Hopi Tribe	12	500680	3934050	Livestock	0.92	8.80	8.8
I1215	Hopi Tribe	12	502663	3939352	Livestock	0.74	13.20	13.2
I1216	Hopi Tribe	12	505490	3937845	Livestock	0.92	5.14	5.1
I1217	Hopi Tribe	12	507094	3938090	Livestock	1.43	11.90	11.9
I1218	Hopi Tribe	12	510895	3940866	Livestock	1.03	5.40	5.4
I1219	Hopi Tribe	12	513521	3935669	Livestock	0.23	0.46	0.5
I1220	Hopi Tribe	12	505692	3933963	Livestock	0.92	5.14	5.1
I1221	Hopi Tribe	12	505399	3953250	Livestock	1.61	2.57	2.6
I1222	Hopi Tribe	12	522462	3951269	Livestock	4.59	27.55	27.6
I1223	Hopi Tribe	12	519589	3945318	Livestock	1.03	4.96	5.0
I1224	Hopi Tribe	12	519815	3945418	Livestock	0.52	2.48	2.5
I1225	Hopi Tribe	12	519294	3952093	Livestock	0.92	5.14	5.1
I1226	Hopi Tribe	12	519732	3950220	Livestock	1.87	3.73	3.7
I1227	Hopi Tribe	12	520104	3949733	Livestock	1.16	6.51	6.5
I1228	Hopi Tribe	12	519375	3952193	Livestock	0.60	3.37	3.4
I1229	Hopi Tribe	12	520023	3953825	Livestock	0.92	5.14	5.1
I1230	Hopi Tribe	12	517581	3953731	Livestock	0.57	2.75	2.8
I1231	Hopi Tribe	12	521276	3955525	Livestock	0.29	0.92	0.9

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ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I1232	Hopi Tribe	12	516919	3945345	Livestock	0.92	8.40	8.4
I1233	Hopi Tribe	12	518836	3954776	Livestock	1.61	7.71	7.7
I1234	Hopi Tribe	12	516457	3940664	Livestock	0.57	1.84	1.8
I1235	Hopi Tribe	12	510819	3936774	Livestock	1.03	5.79	5.8
I1236	Hopi Tribe	12	517739	3928745	Livestock	0.52	5.40	5.4
I1237	Hopi Tribe	12	520740	3937069	Livestock	0.92	9.50	9.5
I1238	Hopi Tribe	12	516701	3940875	Livestock	0.92	16.10	16.1
I1239	Hopi Tribe	12	521270	3935162	Livestock	1.38	6.61	6.6
I1240	Hopi Tribe	12	518671	3938384	Livestock	0.15	0.59	0.6
I1241	Hopi Tribe	12	520888	3939564	Livestock	0.18	0.73	0.7
I1242	Hopi Tribe	12	511861	3938162	Livestock	0.52	2.48	2.5
I1243	Hopi Tribe	12	521450	3943204	Livestock	0.60	3.13	3.1
I1244	Hopi Tribe	12	520840	3937002	Livestock	0.60	5.20	5.2
I131	Hopi Tribe	13	542365	3935726	Livestock	0.73	4.80	4.8
I132	Hopi Tribe	13	544307	3935181	Livestock	4.02	25.71	25.7
I133	Hopi Tribe	13	545032	3935217	Livestock	0.74	3.57	3.6
I134	Hopi Tribe	13	544407	3935303	Livestock	1.84	7.35	7.4
I135	Hopi Tribe	13	542065	3936090	Livestock	0.57	1.15	1.2
I136	Hopi Tribe	13	542562	3936226	Livestock	0.92	2.94	2.9
I137	Hopi Tribe	13	526239	3949715	Livestock	0.23	1.10	1.1
I138	Hopi Tribe	13	530188	3948430	Livestock	1.16	2.32	2.3
I139	Hopi Tribe	13	528415	3953726	Livestock	0.92	12.40	12.4
I1310	Hopi Tribe	13	527044	3949618	Livestock	0.34	1.79	1.8
I1311	Hopi Tribe	13	529619	3953419	Livestock	1.26	6.06	6.1
I1312	Hopi Tribe	13	524696	3954547	Livestock	3.44	27.52	27.5
I1313	Hopi Tribe	13	524977	3941605	Livestock	0.65	4.68	4.7
I1314	Hopi Tribe	13	524627	3949988	Livestock	0.69	3.86	3.9
I1315	Hopi Tribe	13	524587	3948080	Livestock	1.38	6.61	6.6
I1316	Hopi Tribe	13	533302	3943295	Livestock	1.21	5.79	5.8
I1317	Hopi Tribe	13	523841	3942833	Livestock	8.03	57.82	57.8
I1318	Hopi Tribe	13	524343	3944686	Livestock	0.23	4.40	4.4
I1319	Hopi Tribe	13	524538	3946472	Livestock	1.15	5.51	5.5
I1320	Hopi Tribe	13	524850	3941704	Livestock	2.41	17.35	17.4
I1321	Hopi Tribe	13	522809	3935621	Livestock	1.16	7.44	7.4
I1322	Hopi Tribe	13	523973	3930855	Livestock	0.70	3.66	3.7
I1323	Hopi Tribe	13	531431	3932109	Livestock	0.52	2.69	2.7
I1324	Hopi Tribe	13	532402	3934264	Livestock	1.38	5.51	5.5
I1325	Hopi Tribe	13	531559	3936912	Livestock	0.52	6.40	6.4
I1326	Hopi Tribe	13	529962	3940356	Livestock	0.52	9.50	9.5
I1327	Hopi Tribe	13	527814	3934748	Livestock	0.60	2.89	2.9
I1328	Hopi Tribe	13	525624	3936771	Livestock	1.84	1.40	1.4
I1329	Hopi Tribe	13	537001	3935702	Livestock	0.23	0.92	0.9
I1330	Hopi Tribe	13	541150	3937938	Livestock	0.52	2.48	2.5
I1331	Hopi Tribe	13	541279	3937351	Livestock	1.61	9.64	9.6
I1332	Hopi Tribe	13	534287	3941325	Livestock	0.92	9.50	9.5
I1333	Hopi Tribe	13	540299	3941783	Livestock	0.92	12.10	12.1
I1334	Hopi Tribe	13	541146	3938803	Livestock	1.81	8.68	8.7
I1335	Hopi Tribe	13	525770	3936716	Livestock	0.77	4.34	4.3

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I1336	Hopi Tribe	13	536719	3944640	Livestock	0.59	10.40	10.4
I1337	Hopi Tribe	13	544924	3942393	Livestock	0.57	2.98	3.0
I1338	Hopi Tribe	13	536792	3944607	Livestock	2.07	11.57	11.6
I1339	Hopi Tribe	13	537112	3946050	Livestock	1.72	9.64	9.6
I1340	Hopi Tribe	13	544636	3949201	Livestock	0.34	1.65	1.7
I1341	Hopi Tribe	13	541386	3945547	Livestock	0.92	3.67	3.7
I1342	Hopi Tribe	13	540848	3954362	Livestock	0.23	1.19	1.2
I1343	Hopi Tribe	13	535955	3945435	Livestock	0.92	5.14	5.1
I1344	Hopi Tribe	13	540089	3950255	Livestock	0.92	5.14	5.1
I1345	Hopi Tribe	13	543363	3947761	Livestock		6.90	6.9
I141	Hopi Tribe	14	560737	3955397	Livestock	0.69	3.31	3.3
I142	Hopi Tribe	14	558549	3940198	Livestock	0.69	3.86	3.9
I143	Hopi Tribe	14	559947	3941061	Livestock	0.69	3.58	3.6
I144	Hopi Tribe	14	559743	3953937	Livestock	0.46	1.47	1.5
I145	Hopi Tribe	14	561515	3940917	Livestock	0.92	8.00	8.0
I146	Hopi Tribe	14	563197	3941272	Livestock	0.23	1.10	1.1
I147	Hopi Tribe	14	562019	3940122	Livestock	1.29	5.17	5.2
I148	Hopi Tribe	14	563325	3933476	Livestock	1.16	6.97	7.0
I149	Hopi Tribe	14	561748	3954383	Livestock	0.86	4.48	4.5
I1410	Hopi Tribe	14	562250	3953622	Livestock	0.92	4.41	4.4
I1411	Hopi Tribe	14	564792	3949846	Livestock	1.00	5.22	5.2
I1412	Hopi Tribe	14	559890	3949535	Livestock	0.33	4.50	4.5
I1413	Hopi Tribe	14	558860	3950737	Livestock	0.92	5.14	5.1
I1414	Hopi Tribe	14	557430	3949430	Livestock	0.34	1.10	1.1
I1415	Hopi Tribe	14	558941	3953510	Livestock	1.38	5.51	5.5
I1416	Hopi Tribe	14	556684	3944367	Livestock	0.52	2.69	2.7
I1417	Hopi Tribe	14	553580	3942629	Livestock	0.46	1.65	1.7
I1418	Hopi Tribe	14	555749	3948953	Livestock	0.13	0.41	0.4
I1419	Hopi Tribe	14	565238	3940855	Livestock	0.36	2.40	2.4
I1420	Hopi Tribe	14	554099	3934647	Livestock	0.52	2.27	2.3
I1421	Hopi Tribe	14	547086	3932489	Livestock	1.61	9.64	9.6
I1422	Hopi Tribe	14	546432	3937997	Livestock	0.17	0.40	0.4
I1423	Hopi Tribe	14	546602	3938275	Livestock	0.60	1.91	1.9
I1424	Hopi Tribe	14	548242	3938317	Livestock	0.41	1.98	2.0
I1425	Hopi Tribe	14	554127	3934469	Livestock	1.26	7.58	7.6
I1426	Hopi Tribe	14	563542	3956404	Livestock	0.52	2.07	2.1
I1427	Hopi Tribe	14	555812	3938938	Livestock	0.39	5.30	5.3
I1428	Hopi Tribe	14	553418	3939423	Livestock	0.92	7.40	7.4
I1429	Hopi Tribe	14	553533	3941398	Livestock	1.43	9.18	9.2
I1430	Hopi Tribe	14	553643	3941504	Livestock	1.43	9.18	9.2
I1431	Hopi Tribe	14	552722	3942103	Livestock	0.34	1.38	1.4
I1432	Hopi Tribe	14	556356	3933152	Livestock	1.72	12.40	12.4
I1433	Hopi Tribe	14	564516	3935548	Livestock	1.38	8.82	8.8
I1434	Hopi Tribe	14	566472	3940653	Livestock	0.52	9.50	9.5
I1435	Hopi Tribe	14	565173	3942363	Livestock	0.72	3.73	3.7
I1436	Hopi Tribe	14	563623	3945091	Livestock	0.92	2.94	2.9
I1437	Hopi Tribe	14	550842	3946306	Livestock	0.45	1.98	2.0
I1438	Hopi Tribe	14	554453	3950797	Livestock	0.34	0.96	1.0

Hopi Reservation Water Use Claims from Impoundments for Livestock Water and Recreational Use.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example I011, I for impoundment, 01 for plate number 1, and 1 for number

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Surface Area (acres)	Capacity (acre-feet)	Claim (ac-ft/yr)
I1439	Hopi Tribe	14	552331	3948622	Livestock	1.43	8.03	8.0
I1440	Hopi Tribe	14	565596	3942765	Livestock	1.43	3.44	3.4
I1441	Hopi Tribe	14	555810	3948000	Livestock	0.26	0.93	0.9
I1442	Hopi Tribe	14	556891	3955804	Livestock	0.43	2.07	2.1
I1443	Hopi Tribe	14	555000	3956003	Livestock	1.03	5.37	5.4
I1444	Hopi Tribe	14	553291	3953064	Livestock	0.92	5.14	5.1
I1445	Hopi Tribe	14	556684	3955647	Livestock	0.52	2.69	2.7
I1446	Hopi Tribe	14	548515	3948046	Livestock	1.15	6.43	6.4
I1447	Hopi Tribe	14	546013	3950561	Livestock	1.15	6.43	6.4
I1448	Hopi Tribe	14	550105	3951726	Livestock	0.92	5.14	5.1
I1449	Hopi Tribe	14	551257	3952719	Livestock	0.34	1.10	1.1
I1450	Hopi Tribe	14	553944	3941579	Livestock		1.25	1.3
I151	Hopi Tribe	15	589410	3949383	Livestock	0.23	0.92	0.9
I152	Hopi Tribe	15	589648	3945537	Livestock	1.15	4.59	4.6
I153	Hopi Tribe	15	589430	3954564	Livestock	1.55	2.48	2.5
I154	Hopi Tribe	15	589722	3950773	Livestock	1.43	5.74	5.7
I155	Hopi Tribe	15	587882	3945641	Livestock	0.92	5.14	5.1
I156	Hopi Tribe	15	581968	3946783	Livestock	1.81	8.68	8.7
I157	Hopi Tribe	15	589472	3950405	Livestock	0.38	1.97	2.0
I158	Hopi Tribe	15	588621	3952271	Livestock	0.23	1.10	1.1
I159	Hopi Tribe	15	569275	3942360	Livestock	0.92	5.14	5.1
I1510	Hopi Tribe	15	574367	3944254	Livestock	0.34	1.38	1.4
I1511	Hopi Tribe	15	571140	3948198	Livestock	0.23	1.10	1.1
I1512	Hopi Tribe	15	568168	3946234	Livestock	0.34	1.79	1.8
I1513	Hopi Tribe	15	568187	3946056	Livestock	0.33	3.10	3.1
I1514	Hopi Tribe	15	570930	3942684	Livestock	0.34	1.38	1.4
I1515	Hopi Tribe	15	582765	3955486	Livestock	0.34	1.79	1.8
I1516	Hopi Tribe	15	572738	3946403	Livestock	1.72	10.33	10.3
I1517	Hopi Tribe	15	583792	3950161	Livestock	1.61	9.00	9.0
I1518	Hopi Tribe	15	584746	3952632	Livestock	1.03	2.89	2.9
I1519	Hopi Tribe	15	573096	3939219	Livestock	1.43	10.50	10.5
I1520	Hopi Tribe	15	578106	3939172	Livestock	0.39	1.68	1.7
I1521	Hopi Tribe	15	577031	3942025	Livestock	0.33	5.90	5.9
Total Number		561			Total	698	4,499	4,499

Hopi Reservation Water Use Claim from existing Wells.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example W011, W for well, 01 for plate number 1, and 1 for number
Uses nomenclature - D for domestic and S for livestock

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (ac-ft/yr)
W011	Hopi Tribe	1	518563	4025669	D & S	6.5
W012	Hopi Tribe	1	506885	4015485	S	6.5
W013	Hopi Tribe	1	502246	4011723	D	6.5
W021	Hopi Tribe	2	539311	4016218	D & S	6.5
W022	Hopi Tribe	2	542272	4021884	D & S	6.5
W023	Hopi Tribe	2	534562	4024825	D & S	6.5
W024	Hopi Tribe	2	522943	4018471	D & S	6.5
W031	Hopi Tribe	3	555023	4028443	D & S	6.5
W032	Hopi Tribe	3	549839	4015601	D & S	6.5
W033	Hopi Tribe	3	549862	4016241	D & S	6.5
W034	Hopi Tribe	3	554334	4019231	D & S	6.5
W035	Hopi Tribe	3	552432	4025409	D & S	6.5
W036	Hopi Tribe	3	549727	4021108	S	6.5
W041	Hopi Tribe	4	482795	3980930	D & S	6.5
W042	Hopi Tribe	4	486955	3982741	D & S	6.5
W043	Hopi Tribe	4	481332	3987989	D & S	6.5
W044	Hopi Tribe	4	492545	3989975	D & S	6.5
W045	Hopi Tribe	4	480051	3996772	D & S	6.5
W046	Hopi Tribe	4	480577	3997264	D & S	6.5
W047	Hopi Tribe	4	479052	3993118	D & S	6.5
W051	Hopi Tribe	5	502046	4011600	D & S	6.5
W052	Hopi Tribe	5	509035	4011235	D & S	6.5
W053	Hopi Tribe	5	506817	4007104	D	6.5
W054	Hopi Tribe	5	509745	4000853	D & S	6.5
W055	Hopi Tribe	5	511144	4000823	D & S	6.5
W056	Hopi Tribe	5	504091	3998592	S	6.5
W057	Hopi Tribe	5	508524	3996938	D	6.5
W058	Hopi Tribe	5	503802	3992406	D	6.5
W059	Hopi Tribe	5	522030	3984330	D & S	6.5
W0510	Hopi Tribe	5	520969	3988641	S	6.5
W0511	Hopi Tribe	5	521563	3991045	D & S	6.5
W0512	Hopi Tribe	5	517758	3992300	D & S	6.5
W0513	Hopi Tribe	5	512004	3993800	D & S	6.5
W0514	Hopi Tribe	5	514824	3996731	D & S	6.5
W061	Hopi Tribe	6	526265	3999777	D	6.5
W062	Hopi Tribe	6	527774	4001400	D	6.5
W063	Hopi Tribe	6	535813	3999318	D & S	6.5
W064	Hopi Tribe	6	535700	4002491	D	6.5
W065	Hopi Tribe	6	543577	4006194	D & S	6.5
W066	Hopi Tribe	6	542062	4009483	D & S	6.5
W067	Hopi Tribe	6	533737	3986894	D & S	6.5
W068	Hopi Tribe	6	525921	3989424	D & S	6.5
W069	Hopi Tribe	6	528706	3994701	D & S	6.5
W0610	Hopi Tribe	6	527367	3996723	S	6.5
W0611	Hopi Tribe	6	536719	3986043	D & S	6.5

APPENDIX 7

Hopi Reservation Water Use Claim from existing Wells.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example W011, W for well, 01 for plate number 1, and 1 for number
Uses nomenclature - D for domestic and S for livestock

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (ac-ft/yr)
W071	Hopi Tribe	7	551642	4006330	D & S	6.5
W072	Hopi Tribe	7	549518	4006595	D & S	6.5
W073	Hopi Tribe	7	550548	3992551	D & S	6.5
W074	Hopi Tribe	7	557443	3986247	D & S	6.5
W075	Hopi Tribe	7	561360	3988029	D & S	6.5
W076	Hopi Tribe	7	550115	3992528	D & S	6.5
W077	Hopi Tribe	7	546262	3989512	D & S	6.5
W081	Hopi Tribe	8	502387	3979156	D & S	6.5
W082	Hopi Tribe	8	509426	3978309	D & S	6.5
W083	Hopi Tribe	8	507843	3976481	D&S	6.5
W084	Hopi Tribe	8	506599	3972995	D & S	6.5
W085	Hopi Tribe	8	505511	3979375	S	6.5
W086	Hopi Tribe	8	507597	3970658	S	6.5
W087	Hopi Tribe	8	521707	3977995	D & S	6.5
W088	Hopi Tribe	8	512135	3971279	S	6.5
W089	Hopi Tribe	8	514108	3975626	D&S	6.5
W0810	Hopi Tribe	8	518168	3977876	S	6.5
W0811	Hopi Tribe	8	511799	3978334	S	6.5
W0812	Hopi Tribe	8	516776	3982655	D&S	6.5
W0813	Hopi Tribe	8	505851	3957440	D & S	6.5
W0814	Hopi Tribe	8	501381	3960765	D&S	6.5
W0815	Hopi Tribe	8	503287	3964801	D & S	6.5
W0816	Hopi Tribe	8	506021	3965665	D	6.5
W0817	Hopi Tribe	8	502433	3969238	D	6.5
W0818	Hopi Tribe	8	516565	3961581	D&S	6.5
W0819	Hopi Tribe	8	517617	3967297	D & S	6.5
W0820	Hopi Tribe	8	520689	3969292	D & S	6.5
W0821	Hopi Tribe	8	513063	3957034	S	6.5
W0822	Hopi Tribe	8	515121	3956770	D & S	6.5
W0823	Hopi Tribe	8	511771	3961121	S	6.5
W0824	Hopi Tribe	8	518631	3965362	D&S	6.5
W0825	Hopi Tribe	8	521159	3967135	D & S	6.5
W0826	Hopi Tribe	8	515725	3969534	D&S	6.5
W0827	Hopi Tribe	8	500099	3983709	D & S	6.5
W091	Hopi Tribe	9	525460	3975836	D & S	6.5
W092	Hopi Tribe	9	530569	3976623	D & S	6.5
W093	Hopi Tribe	9	537498	3973568	D	6.5
W094	Hopi Tribe	9	536654	3982070	D&S	6.5
W095	Hopi Tribe	9	524105	3957902	D&S	6.5
W096	Hopi Tribe	9	526189	3959057	S	6.5
W097	Hopi Tribe	9	531332	3959218	S	6.5
W098	Hopi Tribe	9	523043	3960887	S	6.5
W099	Hopi Tribe	9	527174	3964319	D&S	6.5
W0910	Hopi Tribe	9	532937	3964880	S	6.5
W0911	Hopi Tribe	9	529447	3967376	S	6.5

Hopi Reservation Water Use Claim from existing Wells.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example W011, W for well, 01 for plate number 1, and 1 for number
Uses nomenclature - D for domestic and S for livestock

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (ac-ft/yr)
W0912	Hopi Tribe	9	532098	3969665	D & S	6.5
W0913	Hopi Tribe	9	534608	3969028	D & S	6.5
W0914	Hopi Tribe	9	533352	3969482	S	6.5
W0915	Hopi Tribe	9	538192	3957617	D & S	6.5
W0916	Hopi Tribe	9	529873	3974911	D & S	6.5
W0917	Hopi Tribe	9	527349	3964909	D & S	6.5
W0918	Hopi Tribe	9	532581	3971340	D	6.5
W0919	Hopi Tribe	9	532582	3971316	D	6.5
W0920	Hopi Tribe	9	532683	3971169	D	6.5
W0921	Hopi Tribe	9	523590	3971347	D	6.5
W0922	Hopi Tribe	9	540326	3977558	D & S	6.5
W0923	Hopi Tribe	9	537416	3976764	D & S	6.5
W101	Hopi Tribe	10	548520	3983944	D & S	6.5
W102	Hopi Tribe	10	547274	3973554	D & S	6.5
W103	Hopi Tribe	10	548471	3979168	D & S	6.5
W104	Hopi Tribe	10	552251	3980067	D & S	6.5
W105	Hopi Tribe	10	563312	3970727	D & S	6.5
W106	Hopi Tribe	10	556637	3977703	D & S	6.5
W107	Hopi Tribe	10	565138	3978074	D	6.5
W108	Hopi Tribe	10	560014	3979978	D & S	6.5
W109	Hopi Tribe	10	549802	3956376	D & S	6.5
W1010	Hopi Tribe	10	545296	3958355	D & S	6.5
W1011	Hopi Tribe	10	550347	3962079	D & S	6.5
W1012	Hopi Tribe	10	554055	3962596	D & S	6.5
W1013	Hopi Tribe	10	552009	3965354	D & S	6.5
W1014	Hopi Tribe	10	547057	3962523	D	6.5
W1015	Hopi Tribe	10	560163	3961770	D & S	6.5
W1016	Hopi Tribe	10	556688	3963565	D&S	6.5
W1017	Hopi Tribe	10	558790	3964473	D & S	6.5
W1018	Hopi Tribe	10	556874	3965816	D & S	6.5
W1019	Hopi Tribe	10	566008	3965571	D & S	6.5
W1020	Hopi Tribe	10	566590	3965439	D & S	6.5
W1021	Hopi Tribe	10	562433	3967270	D	6.5
W1022	Hopi Tribe	10	547914	3983324	D & S	6.5
W1023	Hopi Tribe	10	556679	3965785	D & S	6.5
W1024	Hopi Tribe	10	549749	3956545	D & S	6.5
W1025	Hopi Tribe	10	547247	3973389	D & S	6.5
W1026	Hopi Tribe	10	553896	3974671	D & S	6.5
W111	Hopi Tribe	11	574723	3979004	D	6.5
W112	Hopi Tribe	11	568037	3974427	D & S	6.5
W113	Hopi Tribe	11	578262	3981508	S	6.5
W114	Hopi Tribe	11	576136	3963742	D	6.5
W115	Hopi Tribe	11	568411	3956654	D	6.5
W116	Hopi Tribe	11	576324	3962326	D	6.5
W117	Hopi Tribe	11	576160	3965679	D & S	6.5

Hopi Reservation Water Use Claim from existing Wells.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example W011, W for well, 01 for plate number 1, and 1 for number
Uses nomenclature - D for domestic and S for livestock

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (ac-ft/yr)
W118	Hopi Tribe	11	569369	3965782	D	6.5
W119	Hopi Tribe	11	571375	3969002	S	6.5
W1110	Hopi Tribe	11	587197	3964430	D	6.5
W1111	Hopi Tribe	11	587605	3961229	D & S	6.5
W1112	Hopi Tribe	11	584669	3963666	D & S	6.5
W1113	Hopi Tribe	11	580851	3964092	D	6.5
W1114	Hopi Tribe	11	589497	3965254	D	6.5
W1115	Hopi Tribe	11	585111	3967337	D & S	6.5
W1116	Hopi Tribe	11	585310	3970142	D & S	6.5
W1117	Hopi Tribe	11	587266	3957014	D & S	6.5
W1118	Hopi Tribe	11	573883	3962454	D & S	6.5
W1119	Hopi Tribe	11	583732	3972592	D & S	6.5
W1120	Hopi Tribe	11	571714	3976276	D & S	6.5
W1121	Hopi Tribe	11	578485	3978552	D & S	6.5
W121	Hopi Tribe	12	521096	3956046	D&S	6.5
W122	Hopi Tribe	12	501081	3945698	S	6.5
W123	Hopi Tribe	12	511366	3942829	D & S	6.5
W124	Hopi Tribe	12	508879	3942901	D & S	6.5
W125	Hopi Tribe	12	511690	3949634	D & S	6.5
W126	Hopi Tribe	12	511611	3949679	D & S	6.5
W127	Hopi Tribe	12	515458	3949195	D	6.5
W128	Hopi Tribe	12	518246	3949785	D	6.5
W129	Hopi Tribe	12	501699	3954357	D & S	6.5
W1210	Hopi Tribe	12	514186	3946288	D & S	6.5
W1211	Hopi Tribe	12	513163	3949114	D & S	6.5
W131	Hopi Tribe	13	544351	3946396	D & S	6.5
W132	Hopi Tribe	13	523644	3942682	D & S	6.5
W133	Hopi Tribe	13	531505	3953057	S	6.5
W134	Hopi Tribe	13	522778	3955925	D&S	6.5
W135	Hopi Tribe	13	538775	3947897	S	6.5
W136	Hopi Tribe	13	538813	3947849	S	6.5
W137	Hopi Tribe	13	538813	3947849	S	6.5
W138	Hopi Tribe	13	543289	3947807	D	6.5
W139	Hopi Tribe	13	535506	3951378	D	6.5
W1310	Hopi Tribe	13	543311	3953538	D	6.5
W1311	Hopi Tribe	13	536745	3955727	D & S	6.5
W1312	Hopi Tribe	13	529051	3934965	S	6.5
W1313	Hopi Tribe	13	526358	3934895	D & S	6.5
W1314	Hopi Tribe	13	522773	3935594	D & S	6.5
W1315	Hopi Tribe	13	532247	3938209	D & S	6.5
W1316	Hopi Tribe	13	536250	3941934	D&S	6.5
W1317	Hopi Tribe	13	522766	3955557	D & S	6.5
W1318	Hopi Tribe	13	539710	3955680	D & S	6.5
W1319	Hopi Tribe	13	531291	3948117	D & S	6.5
W141	Hopi Tribe	14	556499	3951537	D	6.5

Hopi Reservation Water Use Claim from existing Wells.
Priority - Time Immemorial
Coordinate System - UTM NAD 27 Zone 12 (meters)
ID nomenclature example W011, W for well, 01 for plate number 1, and 1 for number
Uses nomenclature - D for domestic and S for livestock

ID	Ownership	Plate Number	X Coord.	Y Coord.	Uses	Claim (ac-ft/yr)
W142	Hopi Tribe	14	554705	3955512	D & S	6.5
W143	Hopi Tribe	14	560373	3945689	D & S	6.5
W144	Hopi Tribe	14	566657	3942653	D & S	6.5
W145	Hopi Tribe	14	559404	3946935	D & S	6.5
W146	Hopi Tribe	14	562740	3948787	D	6.5
W147	Hopi Tribe	14	566569	3947644	D & S	6.5
W148	Hopi Tribe	14	560047	3954992	D	6.5
W149	Hopi Tribe	14	552015	3930713	D & S	6.5
W1410	Hopi Tribe	14	552945	3931870	D & S	6.5
W1411	Hopi Tribe	14	551035	3934890	D & S	6.5
W1412	Hopi Tribe	14	556007	3936141	D & S	6.5
W1413	Hopi Tribe	14	553832	3949708	D & S	6.5
W1414	Hopi Tribe	14	549498	3946933	D & S	6.5
W1415	Hopi Tribe	14	553703	3941248	D & S	6.5
W1416	Hopi Tribe	14	555473	3940387	D & S	6.5
W1417	Hopi Tribe	14	557641	3940311	D & S	6.5
W151	Hopi Tribe	15	569669	3943447	D	6.5
W152	Hopi Tribe	15	572896	3949253	D & S	6.5
W153	Hopi Tribe	15	574349	3949338	D & S	6.5
W154	Hopi Tribe	15	588211	3948353	S	6.5
W155	Hopi Tribe	15	580009	3948925	D & S	6.5
W156	Hopi Tribe	15	585500	3950308	D	6.5
W157	Hopi Tribe	15	587348	3955554	D & S	6.5
W158	Hopi Tribe	15	576412	3940328	D	6.5
W159	Hopi Tribe	15	569882	3943315	D & S	6.5
W1510	Hopi Tribe	15	575508	3945503	S	6.5
Total Wells		206			Total	1339.0

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-001- D	39-03-87460			N. Fork Well	10.00	
26-002- DS	39-03-87465		39-03-85674	N.Fork HQ Well	2.18	
26-003- D	39-03-87466			Cottonwood Spring	0.25	
26-004- D	39-03-87466			Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466			Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467			Trap Spring	0.30	
26-007- D	39-03-87467			Trap Tank	0.20	1.37
26-008- D	39-03-87468			Horse Spring	0.30	
26-009- D	39-03-87468			Horse Tank	0.20	2.54
26-010- S	39-03-89058		39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059		39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060		39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061			Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062			Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063		39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064		39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065		39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066		39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067		39-03-85715	River Well	20.00	0.08
26-020- D	39-03-89068			Cinder Well	20.00	0.15
26-021- D	39-03-89069			Coulter Well	20.00	0.09
26-022- D	39-03-89070			Whiting Well	20.00	0.15
See 26-026-D	39-03-89071					
26-023- D	39-03-89072			26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073			Lower Corral Well	5.40	
See 26-026-D	39-03-89074					
See 26-026-D	39-03-89075					
26-025- D	39-03-89076			Becker Well	20.00	0.002
26-026- D	39-03-89289			Private irr./stk from LCR	166.00	
26-027- D	39-03-89112			RVWUA water use	124.00	184.00
26-028- D	39-03-91909			Calving Pasture Well	59.00	
26-029- D	39-03-91910			10" Rim Pasture Well	158.00	
26-030- D	39-03-91911			Abstract deleted		
26-031- D	39-03-91913			John Wayne Fishing Pond	3.00	3.00
26-032- S			39-03-85532	Lost Tank	0.95	0.95
26-033- S			39-03-85668	Big Tank	10.40	10.40
26-034- S			39-03-85670	Corner Tank	3.70	3.70
26-035- S			39-03-85672	Well Tank	0.50	0.50
26-036- S			39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S			39-03-85675	Cinder Tank	1.70	1.70
26-038- S			39-03-85676	East Side Tank	1.10	1.10
26-039- S			39-03-85678	Long Tank	2.90	2.90
26-040- S			39-03-85685	East House Pasture Well	0.18	
26-041- S			39-03-85707	Instream use, LCR	0.20	
26-042- S			39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S			39-03-85710	Tank #10	0.20	0.20
26-044- S			39-03-85712	Instream use, LCR	0.65	
26-045- S			39-03-85714	Instream use, LCR	1.40	
26-046- D				Unnamed Well	10.00	
26-047- D				Rabbit Well	10.00	
26-048- D				Well	10.00	
26-049- U		39-03-89622		Butch Tank	0.09	0.14
26-050- U		39-03-89623		Road Tank	0.10	0.13
26-051- U		39-03-89624		Ant Tank	0.10	0.71
26-052- U		39-03-89625		Pool Corral Tank	0.10	0.36
26-053- U		39-03-89631		Pot Hole Tank	0.10	0.04

APPENDIX 9

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-054- U		39-03-89632		Pasture Tank	0.10	0.09
26-055- U		39-03-89633		Lake Tank	0.10	1.07
26-056- U		39-03-89634		Sidehill Tank	0.10	0.08
26-057- U		39-03-89635		Pool Corral Lake Tank	0.10	0.12
26-058- U		39-03-89636		Seven One (TI) Tank	0.093	0.09
26-059- U		39-03-89637		Draw Tank	0.09	0.36
26-060- U		39-03-89638		Mel Tank	0.09	0.17
26-061- U		39-03-89639		CB Tank One (Fake Tank)	0.09	0.21
26-062- U		39-03-89640		BC Tank	0.09	0.21
26-063- U		39-03-89641		Bog Tank	0.146	0.111
26-064- U		39-03-89642		Hill Tank	0.14	0.26
26-065- U		39-03-89643		Rudd Knoll Pit Tank	0.146	0.13
26-066- U		39-03-89646		Bluff Tank	0.14	0.21
26-067- U		39-03-89647		Rudd Knoll Pit Tank #3	0.14	0.10
26-068- U		39-03-89648		Tank #4	0.14	0.31
26-069- U		39-03-89649		Fence Tank	0.10	0.19
26-070- U		39-03-89650		Riley Tank	0.09	0.21
26-071- U		39-03-89651		S. Fork Spring Tank	0.10	0.25
26-072- U		39-03-89652		South Fork Tank	0.10	0.06
26-073- U		39-03-89653		Mike Tank	0.10	0.22
26-074- U		39-03-89654		Drumstick Tank	0.10	0.24
26-075- U		39-03-89655		South Hog Wallow Tank	0.10	0.07
26-076- U		39-03-89656		North Hog Wallow Tank	0.10	0.27
26-077- U		39-03-89666		Steve Tank	0.10	0.19
26-078- U		39-03-89667		Riley Canyon Tank	0.10	0.11
26-079- U		39-03-89668		Red Tank	0.10	0.22
26-080- U		39-03-89669		Little Tank	0.10	0.22
26-081- U		39-03-89670		Dozer Stock Tank	0.10	0.06
26-082- U		39-03-89671		Hogshead Tank	0.10	0.25
26-083- U		39-03-89672		Alpha Tank	0.10	0.14
26-084- U		39-03-89673		Rudd Knoll Pit Tank #4	0.14	0.09
26-085- U		39-03-89680		Stock Tank #4	0.14	0.44
26-086- U		39-03-89681		Stock Tank #3	0.14	0.21
26-087- U		39-03-89682		Division Tank	0.09	0.31
26-088- U		39-03-89683		C.B. Tank One	0.09	0.31
26-089- U		39-03-89684		Stock Tank #2	0.14	0.12
26-090- U		39-03-89685		Chi Tank	0.10	0.17
26-091- U		39-03-89686		Beta Tank	0.10	0.10
26-092- U		39-03-89687		Winch Tank	0.10	0.26
26-093- U		39-03-89690		Spec Tank	0.09	0.06
26-094- U		39-03-89691		C.B. Tank #2	0.09	0.32
26-095- U		39-03-89698		C.B. Tank #3	0.09	0.53
26-096- U		39-03-89699		Point of the Mtn. Tank	0.09	0.53
26-097- U		39-03-89701		Wad Tank	0.09	0.06
26-098- U		39-03-89707		Phoneline Tank	0.10	0.19
26-099- U		39-03-89708		Sawmill Tank	0.09	0.12
26-100- U		39-03-89715		Bigelow Tank	0.10	0.09
26-101- U		39-03-90447		Grapevine Spring	0.093	
26-102- U		39-03-90449		Sawmill Spring	0.093	
26-103- U		39-03-90450		Basin Spring	0.144	
26-104- U		39-03-90465		Instream use, S. Fk. LCR	0.100	
26-105- U		39-03-90466		Loon Sink	0.000	
26-106- U		39-03-90467		Canvasback Sink	0.000	
26-107- U		39-03-90468		Rim Spring	0.093	
26-108- U		39-03-90469		Point of the Mtn. Spring	0.093	
26-109- U		39-03-90474		Heron Marsh	0.000	

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-110- U		39-03-90482		Instream use, Water Canyon	0.146	
26-111- U		39-03-90483		Instream use, S. Fk. LCR	0.100	
26-112- U		39-03-90484		Instream use, S. Fk. LCR	0.100	
26-113- U		39-03-90499		Clay Spring	0.100	
26-114- U		39-03-90500		P.C. Spring	0.100	
26-115- U		39-03-90501		Hay Spring	0.093	
26-116- U		39-03-90502		Abandoned Spring	0.146	
26-117- U		39-03-90503		Head Spring	0.093	
26-118- U		39-03-90504		Instream use, Water Canyon	0.146	
26-119- U		39-03-90505		Instream use, unnamed wash	0.146	
26-120- U		39-03-90513		Baca Spring	0.146	
26-121- U		39-03-90514		Duker Spring	0.146	
26-122- U		39-03-90515		Wahl Knoll Spring	0.090	
26-123- U		39-03-90516		Instream use, S. Fk. LCR	0.100	
26-124- U		39-03-90518		Hay Lake (Waterfowl)	0.000	
26-125- U		39-03-90526		Hog Wallow Lake (Waterfowl)	0.000	
26-126- U		39-03-90527		Wing Marsh	0.000	
26-127- U		39-03-90528		(Head of) South Fk. Spring	0.100	
26-128- U		39-03-90529		(Bill) Riley Spring	0.093	
26-129- U		39-03-90530		Cabin Spring	0.146	
26-130- U		39-03-90531		Rudd Knoll Spring	0.146	
26-131- U		39-03-90532		Lost Spring	0.146	
26-132- U		39-03-90533		Miller Spring	0.146	
26-133- U		39-03-90538		Pool Corral Lake (Waterfowl)	0.000	
26-134- U		39-03-90539		Reservoir Spring	0.100	
26-135- U		39-03-90541		Instream use, E. Fk. LCR	0.100	
26-136- U		39-03-90554		Pool Corral Spring	0.100	
26-137- U				Instream use, Joe Baca Draw	0.100	
26-138- U				Instream use, Grapevine Cr.	0.600	
26-139- U				Unnamed tank	0.03	0.03
26-140- U				Unnamed tank	0.06	0.06
26-141- U				Unnamed tank	1.40	1.40
26-142- U		39-07-08948		Deep Pit Tank	0.093	0.48
26-143- U				Unnamed tank	0.60	0.60
26-144- U				Unnamed tank	0.09	0.09
26-145- U				Unnamed tank	0.20	0.20
26-146- U				Unnamed tank	0.03	0.03
26-147- U				Unnamed tank	0.10	0.10
26-148- U				Mexican Hay Lake stockwater	0.12	
26-149- U				Hog Wallow Lake stockwater	0.12	
26-150- U				Slade Reservoir stockwater	0.12	
26-151- U				Water Canyon Res. stockwater	0.12	
26-152- U				Atcheson Reservoir stockwater	0.12	
26-153- U				Rudd Reservoir stockwater	0.12	
26-154- U				Little George Res. stockwater	0.12	
26-155- U				Russell Reservoir stockwater	0.12	
				Total all uses	809.993	251.333
				Total irrigation from surface water for 193.5 ac (26-026 & 027-D)	290.000	184.000
				Total supplemental irrigation from wells (26-028 & 029-D)	217.000	0.000
				Total all irrigation	507.000	184.000
				Total remaining uses	302.993	67.333

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

U=U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-001- D	39-03-87460			N. Fork Well	10.00	
26-003- D	39-03-87466			Cottonwood Spring	0.25	
26-004- D	39-03-87466			Cottonwood Tank #1	0.20	0.86
26-005- D	39-03-87466			Cottonwood Tank # 2	0.20	0.59
26-006- D	39-03-87467			Trap Spring	0.30	
26-007- D	39-03-87467			Trap Tank	0.20	1.37
26-008- D	39-03-87468			Horse Spring	0.30	
26-009- D	39-03-87468			Horse Tank	0.20	2.54
26-020- D	39-03-89068			Cinder Well	20.00	0.15
26-021- D	39-03-89069			Coulter Well	20.00	0.09
26-022- D	39-03-89070			Whiting Well	20.00	0.15
26-023- D	39-03-89072			26 Bar HG Well	17.60	0.05
26-024- D	39-03-89073			Lower Corral Well	5.40	
26-025- D	39-03-89076			Becker Well	20.00	0.002
26-026- D	39-03-89289			Private irr./stk from LCR	166.00	
26-027- D	39-03-89112			RVWUA water use	124.00	184.00
26-028- D	39-03-91909			Calving Pasture Well	59.00	
26-029- D	39-03-91910			10" Rim Pasture Well	158.00	
26-030- D	39-03-91911			Abstract deleted		
26-031- D	39-03-91913			John Wayne Fishing Pond	3.00	3.00
26-046- D				Unnamed Well	10.00	
26-047- D				Rabbit Well	10.00	
26-048- D				Well	10.00	
26-002- DS	39-03-87465		39-03-85674	N.Fork HQ Well	2.18	
26-010- S	39-03-89058		39-03-85543	Carnero Creek Tank #4	5.20	5.20
26-011- S	39-03-89059		39-03-85680	Meek Tank	0.46	0.90
26-012- S	39-03-89060		39-03-85681	Cinder Tank	1.06	6.50
26-013- S	39-03-89061			Unnamed natural pond	3.00	3.00
26-014- S	39-03-89062			Unnamed natural pond	2.50	2.50
26-015- S	39-03-89063		39-03-85539	Rocky Well	20.00	0.09
26-016- S	39-03-89064		39-03-85544	South Udahl Well	20.00	0.14
26-017- S	39-03-89065		39-03-85530	Hamblin Well	20.00	0.18
26-018- S	39-03-89066		39-03-85671	Udahl Well	20.00	0.09
26-019- S	39-03-89067		39-03-85715	River Well	20.00	0.08
26-032- S			39-03-85532	Lost Tank	0.95	0.95
26-033- S			39-03-85668	Big Tank	10.40	10.40
26-034- S			39-03-85670	Corner Tank	3.70	3.70
26-035- S			39-03-85672	Well Tank	0.50	0.50
26-036- S			39-03-85673	Pumphouse Tank	3.80	3.80
26-037- S			39-03-85675	Cinder Tank	1.70	1.70
26-038- S			39-03-85676	East Side Tank	1.10	1.10
26-039- S			39-03-85678	Long Tank	2.90	2.90
26-040- S			39-03-85685	East House Pasture Well	0.18	
26-041- S			39-03-85707	Instream use, LCR	0.20	
26-042- S			39-03-85709	Ten Prime Tank	0.19	0.10
26-043- S			39-03-85710	Tank #10	0.20	0.20
26-044- S			39-03-85712	Instream use, LCR	0.65	
26-045- S			39-03-85714	Instream use, LCR	1.40	
26-049- U		39-03-89622		Butch Tank	0.09	0.14
26-050- U		39-03-89623		Road Tank	0.10	0.13
26-051- U		39-03-89624		Ant Tank	0.10	0.71
26-052- U		39-03-89625		Pool Corral Tank	0.10	0.36
26-053- U		39-03-89631		Pot Hole Tank	0.10	0.04
26-054- U		39-03-89632		Pasture Tank	0.10	0.09
26-055- U		39-03-89633		Lake Tank	0.10	1.07
26-056- U		39-03-89634		Sidehill Tank	0.10	0.08

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-057- U		39-03-89635		Pool Corral Lake Tank	0.10	0.12
26-058- U		39-03-89636		Seven One (TI) Tank	0.093	0.09
26-059- U		39-03-89637		Draw Tank	0.09	0.36
26-060- U		39-03-89638		Mel Tank	0.09	0.17
26-061- U		39-03-89639		CB Tank One (Fake Tank)	0.09	0.21
26-062- U		39-03-89640		BC Tank	0.09	0.21
26-063- U		39-03-89641		Bog Tank	0.146	0.111
26-064- U		39-03-89642		Hill Tank	0.14	0.26
26-065- U		39-03-89643		Rudd Knoll Pit Tank	0.146	0.13
26-066- U		39-03-89646		Bluff Tank	0.14	0.21
26-067- U		39-03-89647		Rudd Knoll Pit Tank #3	0.14	0.10
26-068- U		39-03-89648		Tank #4	0.14	0.31
26-069- U		39-03-89649		Fence Tank	0.10	0.19
26-070- U		39-03-89650		Riley Tank	0.09	0.21
26-071- U		39-03-89651		S. Fork Spring Tank	0.10	0.25
26-072- U		39-03-89652		South Fork Tank	0.10	0.06
26-073- U		39-03-89653		Mike Tank	0.10	0.22
26-074- U		39-03-89654		Drumstick Tank	0.10	0.24
26-075- U		39-03-89655		South Hog Wallow Tank	0.10	0.07
26-076- U		39-03-89656		North Hog Wallow Tank	0.10	0.27
26-077- U		39-03-89666		Steve Tank	0.10	0.19
26-078- U		39-03-89667		Riley Canyon Tank	0.10	0.11
26-079- U		39-03-89668		Red Tank	0.10	0.22
26-080- U		39-03-89669		Little Tank	0.10	0.22
26-081- U		39-03-89670		Dozer Stock Tank	0.10	0.06
26-082- U		39-03-89671		Hogshead Tank	0.10	0.25
26-083- U		39-03-89672		Alpha Tank	0.10	0.14
26-084- U		39-03-89673		Rudd Knoll Pit Tank #4	0.14	0.09
26-085- U		39-03-89680		Stock Tank #4	0.14	0.44
26-086- U		39-03-89681		Stock Tank #3	0.14	0.21
26-087- U		39-03-89682		Division Tank	0.09	0.31
26-088- U		39-03-89683		C.B. Tank One	0.09	0.31
26-089- U		39-03-89684		Stock Tank #2	0.14	0.12
26-090- U		39-03-89685		Chi Tank	0.10	0.17
26-091- U		39-03-89686		Beta Tank	0.10	0.10
26-092- U		39-03-89687		Winch Tank	0.10	0.26
26-093- U		39-03-89690		Spec Tank	0.09	0.06
26-094- U		39-03-89691		C.B. Tank #2	0.09	0.32
26-095- U		39-03-89698		C.B. Tank #3	0.09	0.53
26-096- U		39-03-89699		Point of the Mtn. Tank	0.09	0.53
26-097- U		39-03-89701		Wad Tank	0.09	0.06
26-098- U		39-03-89707		Phoneline Tank	0.10	0.19
26-099- U		39-03-89708		Sawmill Tank	0.09	0.12
26-100- U		39-03-89715		Bigelow Tank	0.10	0.09
26-101- U		39-03-90447		Grapevine Spring	0.093	
26-102- U		39-03-90449		Sawmill Spring	0.093	
26-103- U		39-03-90450		Basin Spring	0.144	
26-104- U		39-03-90465		Instream use, S. Fk. LCR	0.100	
26-105- U		39-03-90466		Loon Sink	0.000	
26-106- U		39-03-90467		Canvasback Sink	0.000	
26-107- U		39-03-90468		Rim Spring	0.093	
26-108- U		39-03-90469		Point of the Mtn. Spring	0.093	
26-109- U		39-03-90474		Heron Marsh	0.000	
26-110- U		39-03-90482		Instream use, Water Canyon	0.146	
26-111- U		39-03-90483		Instream use, S. Fk. LCR	0.100	
26-112- U		39-03-90484		Instream use, S. Fk. LCR	0.100	

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI 26 BAR RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	USFS	SLD			
26-113- U		39-03-90499		Clay Spring	0.100	
26-114- U		39-03-90500		P.C. Spring	0.100	
26-115- U		39-03-90501		Hay Spring	0.093	
26-116- U		39-03-90502		Abandoned Spring	0.146	
26-117- U		39-03-90503		Head Spring	0.093	
26-118- U		39-03-90504		Instream use, Water Canyon	0.146	
26-119- U		39-03-90505		Instream use, unnamed wash	0.146	
26-120- U		39-03-90513		Baca Spring	0.146	
26-121- U		39-03-90514		Duker Spring	0.146	
26-122- U		39-03-90515		Wahl Knoll Spring	0.090	
26-123- U		39-03-90516		Instream use, S. Fk. LCR	0.100	
26-124- U		39-03-90518		Hay Lake (Waterfowl)	0.000	
26-125- U		39-03-90526		Hog Wallow Lake (Waterfowl)	0.000	
26-126- U		39-03-90527		Wing Marsh	0.000	
26-127- U		39-03-90528		(Head of) South Fk. Spring	0.100	
26-128- U		39-03-90529		(Bill) Riley Spring	0.093	
26-129- U		39-03-90530		Cabin Spring	0.146	
26-130- U		39-03-90531		Rudd Knoll Spring	0.146	
26-131- U		39-03-90532		Lost Spring	0.146	
26-132- U		39-03-90533		Miller Spring	0.146	
26-133- U		39-03-90538		Pool Corral Lake (Waterfowl)	0.000	
26-134- U		39-03-90539		Reservoir Spring	0.100	
26-135- U		39-03-90541		Instream use, E. Fk. LCR	0.100	
26-136- U		39-03-90554		Pool Corral Spring	0.100	
26-137- U				Instream use, Joe Baca Draw	0.100	
26-138- U				Instream use, Grapevine Cr.	0.600	
26-139- U				Unnamed tank	0.03	0.03
26-140- U				Unnamed tank	0.06	0.06
26-141- U				Unnamed tank	1.40	1.40
26-142- U		39-07-08948		Deep Pit Tank	0.093	0.48
26-143- U				Unnamed tank	0.60	0.60
26-144- U				Unnamed tank	0.09	0.09
26-145- U				Unnamed tank	0.20	0.20
26-146- U				Unnamed tank	0.03	0.03
26-147- U				Unnamed tank	0.10	0.10
26-148- U				Mexican Hay Lake stockwater	0.12	
26-149- U				Hog Wallow Lake stockwater	0.12	
26-150- U				Slade Reservoir stockwater	0.12	
26-151- U				Water Canyon Res. stockwater	0.12	
26-152- U				Atcheson Reservoir stockwater	0.12	
26-153- U				Rudd Reservoir stockwater	0.12	
26-154- U				Little George Res. stockwater	0.12	
26-155- U				Russell Reservoir stockwater	0.12	
See 26-026-D	39-03-89071					
See 26-026-D	39-03-89074					
See 26-026-D	39-03-89075					
				Total all uses	809.993	251.333
				Total irrigation from surface water for 193.5 ac (26-026 & 027-D)	290.000	184.000
				Total supplemental irrigation from wells (26-028 & 029-D)	217.000	0.000
				Total all irrigation	507.000	184.000
				Total remaining uses	302.993	67.333

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

U=U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87460			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-646494			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (N. Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		----- CFS		
Annual Volume of Use:	----- Gal		10.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal		----- AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	About 1961				

Comments:
Based on GPS, the well is located in section 21 which conflicts with the section 16 location in the filings.
Since no annual use amount or flow rate is given in the filings, the amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-002-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87465			
	Filed by SLD:	39-03-85674			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614137			
Type of Uses:	Domestic, Stockwater, Wildlife				
Source of Supply:	Groundwater (N. Fork HQ Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESWNE		21	10N	28E
Place of Use (if different from POD):	SWNE, N2NE		21	10N	28E
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	----- Gal		2.18 AF		
Storage Volume or Reservoir Capacity:	----- Gal		----- AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Jan. 19, 1916				

Comments:
POU includes stock use at well (on State lease land) plus domestic/stock use in N2NE (deeded ranch land).
Since the filings did not list a flow rate, the value herein is estimated from rates for similar wells on the ranch.
Since the filings did not list a domestic annual use amount, an estimated 2 af/yr domestic use based on similar ranch wells was added to the .18 af/yr stock use claimed in the SLD filing.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025025			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Cottonwood Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.25 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Approx. 1890				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025040 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.86 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Cottonwood Tank #1				
Priority Date:	1952				
Comments:					

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-005-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87466
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025041 (Rejected Status)
	Filed by SLD:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash and spring	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	16	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.20 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.59 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Cottonwood Tank #2	
Priority Date:	1958	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-006-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87467			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025022			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Trap Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		21	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.30 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1890	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87467			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025038 (Rejected Status)			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWSE		16	10N	28E
	NENWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.37 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Trap Tank				
Priority Date:	1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-008-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87468
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025021
	Filed by SLD:	
Type of Uses:	Stockwater	
Source of Supply:	Horse Spring	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	21	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.30 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1890	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-009-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87468
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025039 (Rejected Status)
	Filed by SLD:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash and spring	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWSE	16	10N	28E
	NWNWNE	21	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	---- CFS
Annual Volume of Use:	----- Gal	0.20 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.54 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Horse Tank	
Priority Date:	1954	
Comments:		

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89058			
	Filed by SLD:	39-03-85543			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-015350			
	Filed by SLD:	36-000751 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		34	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.20 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.20 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Camero Cr. Tank #4				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility SLD filing 38-088872 (rejected status). This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-011-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89059			
	Filed by SLD:	39-03-85680			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000839 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		29	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.46 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.90 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Meek Tank				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-012-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89060			
	Filed by SLD:	39-03-85681			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000840			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Camero Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Into supply ditch from Camero Creek:	NWNE		4	9N	28E
Place of Use (if different from POD):					
Pond and dam:	SESW		33	10N	28E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.06 AF	
Storage Volume or Reservoir Capacity:		----- Gal		6.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Cinder Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-013-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89061			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWSE		10	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Unnamed natural pond				
Priority Date:	Before 1967				

Comments:
Since the filing does not list annual use amount, the value herein is estimated to be equal to the tank capacity.
A definite priority date is not clearly stated in the claim, hence the construction date listed in the filing is used herein.
Aerial photos and the filing indicate the facility is a natural pond or sink.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-014-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89062			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NWSE		10	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		2.50 AF	
Storage Volume or Reservoir Capacity:		---- Gal		2.50 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Unnamed natural pond				
Priority Date:	Before 1967				

Comments:
Since the filing does not list annual use amount, the value herein is estimated to be equal to the tank capacity.
A definite priority date is not clearly stated in the claim, hence the construction date listed in the filing is used herein.
Aerial photos and the filing indicate the facility is a natural pond or sink.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-015-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89063			
	Filed by SLD:	39-03-85539			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614098			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Rocky Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	9N	28E
Place of Use (if different from POD):	SENE		23	9N	28E
	SWNW		24	9N	28E
Flow Rate:		20 GPM		----- CFS	
Annual Volume of Use:		----- Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		30,000 Gal		0.09 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Feb. 24, 1917				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-016-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89064			
	Filed by SLD:	39-03-85544			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-644834			
	Filed by SLD:	55-614099			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (South Udahl Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		36	9N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	35 or less GPM	----- CFS
Annual Volume of Use:	----- Gal	20.00 AF
Storage Volume or Reservoir Capacity:	45,000 Gal	0.14 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Dec. 30, 1853	

Comments:
Water pumped into storage tank/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-017-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89065			
	Filed by SLD:	39-03-85530			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614097			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Hamblin Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		3	9N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	35 or less GPM	---- CFS
Annual Volume of Use:	---- Gal	20.00 AF
Storage Volume or Reservoir Capacity:	60,000 Gal	0.18 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Feb. 24, 1917	

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89066			
	Filed by SLD:	39-03-85671			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614136			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Udahl Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		18	10N	28E
Place of Use (if different from POD):	SWSE		18	10N	28E
Water also piped to:	NWNW		29	10N	28E

Flow Rate:	35 or less GPM	----- CFS
Annual Volume of Use:	----- Gal	20.00 AF
Storage Volume or Reservoir Capacity:	30,000 Gal	0.09 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Sep.27, 1916	

Comments:
Water pumped to storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-019-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89067			
	Filed by SLD:	39-03-85715			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614144			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (River Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		31	10N	29E

Place of Use (if different from POD): Same as POD

Flow Rate:	35 or less GPM	---- CFS
Annual Volume of Use:	---- Gal	20.00 AF
Storage Volume or Reservoir Capacity:	25,000 Gal	0.08 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Jan.7, 1924	

Comments:
Water pumped into storage tank/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89068			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625567			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Cinder Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		27	9N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	30 GPM	----- CFS
Annual Volume of Use:	----- Gal	20.00 AF
Storage Volume or Reservoir Capacity:	50,000 Gal	0.15 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Unknown	

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-021-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89069			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625565			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Coulter Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		2	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		30 GPM		----- CFS	
Annual Volume of Use:		----- Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		30,000 Gal		0.09 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Unknown				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-022-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89070			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625566			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Whiting Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		14	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		30 GPM		----- CFS	
Annual Volume of Use:		----- Gal		20.00 AF	
Storage Volume or Reservoir Capacity:		50,000 Gal		0.15 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Unknown				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-023-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89072		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625564		
	Filed by SLD:			
Type of Uses:	Domestic, Stockwater			
Source of Supply:	Groundwater (26 Bar HG Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSWNW	7	8N	29E
Place of Use (if different from POD):	SWNW, SWSW	7	8N	29E

Flow Rate:	35 GPM	----- CFS
Annual Volume of Use:	----- Gal	17.60 AF
Storage Volume or Reservoir Capacity:	15,000 Gal	0.05 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1962	

Comments:
Water piped from well across river to house and barns in SWSW and to drinker on top of rim in SWNW.
Annual use reflects 5 af domestic and 12.6 af stockwater use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89073			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625563			
	Filed by SLD:				
Type of Uses:	Domestic, Stockwater				
Source of Supply:	Groundwater (Lower Corral Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		7	8N	29E
Place of Use (if different from POD):					
At well:	NWNE		7	8N	29E
At house:	NWSE		7	8N	29E
At barns & pasture:	NESE		7	8N	29E
Flow Rate:	Less than 35	GPM	----	CFS	
Annual Volume of Use:	----	Gal	5.40	AF	
Storage Volume or Reservoir Capacity:	----	Gal	----	AF	
Irrigated Acres (if irrigation use):	----	Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1962				

Comments:
Water used at well and is also piped across river to house/barns/pasture.
Annual use reflects 2.0 af domestic use and 3.4 af stockwater use.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-025-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89076			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-803074			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Becker Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		30	9N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less GPM		----- CFS		
Annual Volume of Use:	----- Gal		20.00 AF		
Storage Volume or Reservoir Capacity:	800 Gal		0.002 AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Before 1964				

Comments:
Water pumped into storage tanks/drinkers

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-026-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89289, 39-03-89071, 39-03-89074, & 39-03-89075
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	Norviel Decree
	Filed by SLD:	
Type of Uses:	Irrigation, Stockwater	
Source of Supply:	Little Colorado River	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Milligan Ditch (serving Milligan Field):	NESW	7	8N	29E
Rim Ditch (serving Rim Field):	SENE	12	8N	28E
Springerville/26 Bar D.(serving 69 tract):	NWSE	5	8N	29E
Unnamed ditch(serving 69 tract):	NENE	7	8N	29E
Unnamed ditch(subirr. in 69 tract):	SENE	5	8N	29E
Place of Use (if different from POD):				
Milligan Field:	SENW, SWNE	7	8N	29E
Rim Field:	NW, W2NE	7	8N	29E
69 Tract:	W2NW	4	8N	29E
69 Tract:	E2NE	5	8N	29E

Flow Rate:	---- GPM	---- CFS	
Annual Volume of Use:	---- Gal	166.00 AF	(Water duty)
Storage Volume or Reservoir Capacity:	---- Gal	---- AF	
Irrigated Acres (if irrigation use):	110.5 Ac		
Name of Reservoir or Stockpond:			
Priority Date:	Various dates from 1872-1881		

Comments:

This abstract covers private 26 Bar Ranch irrigation and related stock use from the Little Colorado River and excludes uses from water provided by the Round Valley Water Users Association.

Information obtained from Apache County Superior Court shows 26 Bar Ranch is allowed 110.5 acres private irrigation with priority dates of 1872-1881 under the Norviel Decree. Aerial photo analysis shows present/historic irrigation approximating the 110.5 acres

Annual use is based on Norviel Decree water duty of 1.5 af/ac for 110.5 acres. Additional amounts are claimed for conveyance losses not included in the water duty. This water duty may increase based on settlement negotiations.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-027-D				
Applicable Adjudication Filings:	Filed by Irr. Co.:	39-03-89112			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by Irr. Co.:	Norviel Decree			
	Filed by SLD:				
Type of Uses:	Irrigation, Stockwater				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Amity Ditch(serving Lower Barn and Calving Pasture):	SWNE		12	8N	28E
Big Ditch (serving Upper and Middle Barn Areas):	NWSE		16	8N	28E
Place of Use (if different from POD):					
Upper/Middle/Lower Barn Areas:	N2SW,SWSW		7	8N	29E
Upper/Middle/Lower Barn Areas:	NWNW		18	8N	29E
Calving Pasture:	NESE		7	8N	29E
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	124.00 AF	(Water duty)		
Storage Volume or Reservoir Capacity:	----- Gal	184.00 AF	(See comments)		
Irrigated Acres (if irrigation use):	83 Ac	(See comments)			
Name of Reservoir or Stockpond:					
Priority Date:	Various dates from 1872-1891				

Comments:

This abstract covers water use from the Round Valley Water Users Association (RVWUA) on the 26 Bar Ranch.

The 26 Bar Ranch holds 3011.93 shares in the RVWUA, and in addition leases an additional 8 af/yr.

The storage volume and irrigated acreage are based on the total irrigated acres and storage amounts allowed for the RVWUA (based on information received from Apache County Superior Court) times the ratio of 26 Bar Ranch shares to total RVWUA shares.

Annual use is based on Norviel Decree water duty of 1.5 af/ac for 83 acres. Additional amounts are claimed for conveyance losses not included in the water duty. This water duty may increase based on settlement negotiations. Additional leased water is in addition to the designated water right.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-028-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-91909			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Irrigation				
Source of Supply:	Groundwater (Calving Pasture Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		7	8N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		100 GPM		----- CFS	
Annual Volume of Use:		----- Gal		59.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		15 Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1980				

Comments:
Well is believed to have supplied supplemental irrigation water to a portion of Calving Pasture

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-029-D			
Applicable Adjudication Filings:	Filed by ranch: 39-03-91910			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Irrigation			
Source of Supply:	Groundwater (10" Rim Pasture Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWNW	7	8N	29E
Place of Use (if different from POD):	NW, W2NE	7	8N	29E

Flow Rate:	300 GPM	----- CFS
Annual Volume of Use:	----- Gal	158.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	40 Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1980	

Comments:
Well is believed to have supplied supplemental irrigation water to a portion of Rim Field

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-030-D	Abstract deleted June,2000			
Applicable Adjudication Filings:	Filed by ranch:	39-03-91911			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	55-614138			
Type of Uses:	Irrigation				
Source of Supply:	Springs, ponds and groundwater (N.Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Springs and ponds:	SESW, SWSE		16	10N	28E
Springs and ponds:	NWNE		21	10N	28E
Well(Supplemental supply):	NWSWNE		21	10N	28E
Place of Use (if different from POD):	SWSE, SESW		16	10N	28E

Flow Rate:	70 GPM	----- CFS	
Annual Volume of Use:	----- Gal	40.00 AF	
Storage Volume or Reservoir Capacity:	----- Gal	----- AF	See comments
Irrigated Acres (if irrigation use):	10 Ac		
Name of Reservoir or Stockpond:	See comments		
Priority Date:	Prior to 1970		

Comments:
This abstract covers only the irrigation use portion of the use of the springs, ponds, and well.
The springs and ponds are also used for stockwater or stockpond use covered by abstracts 26-003-D, 26-005-D, 26-006-D, 26-007-D, 26-008-D, 26-009-D
The well (located on State lease land) is also used to supply water to Well Tank covered by abstract 26-035-S

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-031-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-91913			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Unnamed spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		12	8N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	3.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	3.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	John Wayne Fishing Pond	
Priority Date:	1970	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-032-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85532			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000741			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		1	9N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.95 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.95 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lost Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-033-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85668			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025026 (Rejected Status)			
	Filed by SLD:	36-000831			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW, SWNE		16	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		10.40 AF	
Storage Volume or Reservoir Capacity:		---- Gal		10.40 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Big Tank				
Priority Date:	Dec. 30, 1853				

Comments:
Rejected filing 38-025026 (listed as a basis of claim on SLD filing 39-03-85668) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-034-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85670			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025033 (Rejected Status)			
	Filed by SLD:	36-000833			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dike across draw:	NWNE		17	10N	28E
Place of Use (if different from POD):					
Pond:	NENE		17	10N	28E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.70 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.70 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025033 (listed as a basis of claim on SLD filing 39-03-85670) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-035-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85672			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025036 (Rejected Status)			
	Filed by SLD:	36-000834, 55-614138			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw and groundwater (N. Fork Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWNE		21	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		----- CFS	
Annual Volume of Use:		---- Gal		0.50 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.50 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Well Tank				
Priority Date:	Prior to 1884				
Comments:					

Rejected filing 38-025036 covers this stockpond

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-036-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85673			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025035 (Rejected Status)			
	Filed by SLD:	36-000835			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		21	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	3.80 AF
Storage Volume or Reservoir Capacity:	----- Gal	3.80 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Pumphouse Tank	
Priority Date:	Prior to 1884	

Comments:
Rejected filing 38-025035 covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-037-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85675			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025037 (Rejected Status)			
	Filed by SLD:	36-000836			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		22	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.70 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.70 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Cinder Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025037(listed as a basis of claim on SLD filing 39-03-85675) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-038-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85676			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025034 (Rejected Status)			
	Filed by SLD:	36-000837			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		23	10N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		1.10 AF	
Storage Volume or Reservoir Capacity:		---- Gal		1.10 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	East Side Tank				
Priority Date:	Prior to 1884				

Comments:
Rejected filing 38-025034 (listed as a basis of claim on SLD filing 39-03-85676) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-039-S	
Applicable Adjudication Filings:	Filed by ranch:	
	Filed by SLD:	39-03-85678
Applicable Pre-adjudication Filings:	Filed by ranch:	38-025042 (Rejected Status)
	Filed by SLD:	36-000838
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Camero Creek	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW,NWNE	26	10N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	2.90 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.90 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Long Tank	
Priority Date:	Prior to 1884	

Comments:
Rejected filing 38-025042 (listed as a basis of claim on SLD filing 39-03-85678) covers this stockpond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-040-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85685		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	55-614139		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Groundwater (East House Pasture Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	22	10N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.18 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Sep.27, 1916			

Comments:
Since filings did not list flow rate, the value herein was estimated from rates of similar wells on the ranch

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-041-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85707			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-025019			
	Filed by SLD:	36-000861			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		30	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1880				

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-042-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85709			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000862 (See comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		30	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.19 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.10 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Ten Prime Tank				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-043-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85710			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000863 (see comments)			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		30	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.20 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Tank #10				
Priority Date:	Prior to 1884				

Comments:
SLD has in their file for this facility an unnumbered rejected status 38 filing. This filing covers this stockpond but is not listed by the SLD as an applicable filing and is not on the ADWR database.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-044-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-85712		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000213		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	30	10N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.65 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-045-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-85714			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000132			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		30	10N	29E
	NWNE, SWNE, SENE		31	10N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	----- Gal		1.40 AF		
Storage Volume or Reservoir Capacity:	----- Gal		----- AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Type of use involves instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-046-D				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-625562			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (unnamed well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWNW		7	8N	29E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		35 GPM		----- CFS	
Annual Volume of Use:		----- Gal		10.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1962				

Comments:
Since no annual use amount is listed in the filing, the amount herein is estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-047-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (Rabbit Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	12	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	---- CFS		
Annual Volume of Use:	---- Gal	10.00 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Unknown			

Comments:
Well location based on GPS.
The flow rate and annual use amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-048-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	12	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	----- CFS		
Annual Volume of Use:	----- Gal	10.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Unknown			

Comments:
Well location based on GPS.
The flow rate and annual use amounts herein are estimated from values for similar wells on the ranch.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-049-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89622 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013279 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Headwaters of S. Fork Little Colorado River				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWNE	33	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM	---- CFS		
Annual Volume of Use:		---- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:		---- Gal	0.14 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Butch Tank				
Priority Date:	1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-050-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89623 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013231 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	31	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.13 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Road Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-051-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89624 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013205 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		---- GPM	---- CFS	
Annual Volume of Use:		---- Gal	0.10 AF	
Storage Volume or Reservoir Capacity:		---- Gal	0.71 AF	
Irrigated Acres (if irrigation use):		---- Ac		
Name of Reservoir or Stockpond:	Ant Tank			
Priority Date:	1970			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-052-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89625 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013263 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.36 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Pool Corral Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-053-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89631 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013264 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 2 (SWNW)	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.04 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Pot Hole Tank			
Priority Date:	1962			

Comments:
Facility is a dugout tank at the west end of a small unnamed lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-054-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89632 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013227 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 3 (NWSW)	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.09 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Pasture Tank			
Priority Date:	1965			

Comments:
Filing 38-013227 has Pasture Tank erroneously located in section 10

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-055-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89633 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013260 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	29	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	---- Gal	1.07 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Lake Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-056-U
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89634 Filed by SLD:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013266 (Revoked or rejected status) Filed by SLD:
Type of Uses:	Stockpond, Fish, Wildlife
Source of Supply:	South Fork Little Colorado River

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	29	7N	28E

Place of Use (if different from POD):	Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.10 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.08 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Sidehill Tank	
Priority Date:	1962	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-057-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89635 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013229 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.12 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Pool Corral Lake Tank			
Priority Date:	1965			

Comments:
Some USFS allotment maps label this facility Spring Tank.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-058-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89636 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013277 Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Headwaters of the South Fork Little Colorado River				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSE	29	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	—— GPM	—— CFS			
Annual Volume of Use:	—— Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	—— Gal	0.09 AF			
Irrigated Acres (if irrigation use):	—— Ac				
Name of Reservoir or Stockpond:	Seven One Tank (TI Tank)				
Priority Date:	Nov. 18, 1957				

Comments:

On USFS allotment maps, this facility is labeled TI Tank, while Seven One Tank is mistakenly shown to be in section 32, T7N,R28E where aerial photos show no tank.

Filing 38-013277 was not revoked or rejected because it originally had the tank located in section 32 (outside the LCR basin) but was later corrected.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-059-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89637 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013197 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Headwaters South Fork Little Colorado River				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SESW	28	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	0.09 AF			
Storage Volume or Reservoir Capacity:	----- Gal	0.36 AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Draw Tank				
Priority Date:	Nov. 18, 1957				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-060-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89638 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013196 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Headwaters South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	28	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.17 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Mel Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-061-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89639 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013193 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	28	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.21 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	CB Tank One (Fake Tank)			
Priority Date:	1965			

Comments:
Filing 39-03-89639 labels this facility CB Tank One while filing 38-013193 calls it Fake Tank.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-062-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89640 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013198 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NENE	28	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	0.09 AF		
Storage Volume or Reservoir Capacity:		—— Gal	0.21 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	BC Tank				
Priority Date:	1975				

Comments:
May need rehabilitation

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-063-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89641 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013308 Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWNE	26	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	0.146 AF			
Storage Volume or Reservoir Capacity:	----- Gal	0.111 AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Bog Tank				
Priority Date:	1965				

Comments:
Filing 38-013308 was not revoked/rejected because it was mistakenly determined by ADWR to be outside the LCR basin.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-064-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89642 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013158 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	26	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		---- GPM	---- CFS	
Annual Volume of Use:		---- Gal	0.14 AF	
Storage Volume or Reservoir Capacity:		---- Gal	0.26 AF	
Irrigated Acres (if irrigation use):		---- Ac		
Name of Reservoir or Stockpond:	Hill Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-065-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89643 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013298 Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWSE	25	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	0.146 AF			
Storage Volume or Reservoir Capacity:	----- Gal	0.13 AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #1				
Priority Date:	1965				

Comments:
Filing 38-013298 was not revoked/rejected because it originally had the tank mistakenly located outside the LCR basin but was later corrected.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-066-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89646 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013165 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		---- GPM	---- CFS	
Annual Volume of Use:		---- Gal	0.14 AF	
Storage Volume or Reservoir Capacity:		---- Gal	0.21 AF	
Irrigated Acres (if irrigation use):		---- Ac		
Name of Reservoir or Stockpond:	Bluff Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-067-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89647 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013310 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	23	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.10 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #3			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-068-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89648 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013311 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	22	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:		---- GPM	----- CFS	
Annual Volume of Use:		---- Gal	0.14 AF	
Storage Volume or Reservoir Capacity:		---- Gal	0.31 AF	
Irrigated Acres (if irrigation use):		---- Ac		
Name of Reservoir or Stockpond:	Tank #4			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-069-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89649 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013259 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	21	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.19 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Fence Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-070-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89650 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013283 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Bill Riley Creek				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWNE	21	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM	---- CFS		
Annual Volume of Use:		---- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:		---- Gal	0.21 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Riley Tank				
Priority Date:	June 30, 1958				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-071-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89651 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013232 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	South Fork Little Colorado River				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SESE	20	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	0.10 AF			
Storage Volume or Reservoir Capacity:	----- Gal	0.25 AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	South Fork Spring Tank				
Priority Date:	1962				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-072-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89652 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013267 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.06 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	South Fork Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-073-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89653 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013274 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.22 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Mike Tank			
Priority Date:	1962			

Comments:
Filings mistakenly place tank in NESE section 19 where aerial photos show no tank.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-074-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89654 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013224 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.24 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Drumstick Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-075-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89655 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013208 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff into tank and lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.07 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	South Hog Wallow Tank			
Priority Date:	1962			

Comments:
Filings mistakenly place tank just across section line in SWSE section 19.
Tank is dugout facility within high water level of Hog Wallow Lake

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-076-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89656 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013261 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff into tank and lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.27 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	North Hog Wallow Tank			
Priority Date:	1962			

Comments:
Tank is dugout facility within high water level of Hog Wallow Lake

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-077-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89666 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013271 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	17	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.19 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Steve Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-078-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89667 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013265 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.11 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Riley Canyon Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-079-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89668 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013230 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.22 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Red Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-080-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89669 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013226 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.22 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Little Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-081-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89670 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013258 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	16	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.06 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Dozer Stock Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-082-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89671 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013225 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	15	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.25 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Hogshead Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-083-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89672 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013273 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	15	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.14 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Alpha Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-084-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89673 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013167 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	14	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.09 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Rudd Knoll Pit Tank #4			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-085-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89680 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013159 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	7	7N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.44 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Stock Tank #4			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-086-U
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89681 Filed by SLD:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013309 (Revoked or rejected status) Filed by SLD:
Type of Uses:	Stockpond, Fish, Wildlife
Source of Supply:	Unnamed draw

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	12	7N	28E

Place of Use (if different from POD):	Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.14 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.21 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Stock Tank #3	
Priority Date:	Sep. 10, 1959	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-087-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89682 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013192 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):					
Dam:	NENW	12	7N	28E	
Place of Use (if different from POD):					
Pond:	E2NW	12	7N	28E	

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.09 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.31 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Division Tank	
Priority Date:	1965	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-088-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89683 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013284 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	12	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.31 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	CB Tank One			
Priority Date:	August 24, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-089-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89684 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013157 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	11	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.14 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.12 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Stock Tank #2			
Priority Date:	Sep. 10, 1959			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-090-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89685 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013206 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.17 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Chi Tank			
Priority Date:	Jan. 24, 1962			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-091-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89686 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013221 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.10 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Beta Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-092-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89687 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013272 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Bill Riley Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	9	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.26 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Winch Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-093-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89690 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013280 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Joe Baca Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	2	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	---- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.06 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Spec Tank			
Priority Date:	1975			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-094-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89691 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013194 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	1	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.32 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	C.B. Tank #2			
Priority Date:	Sep. 1, 1959			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-095-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89698 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013282 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)	31	8N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.53 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	C.B. Tank #3			
Priority Date:	Sep. 1, 1959			

Comments:
May need rehabilitation

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-096-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89699 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013191 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)	31	8N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.53 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Point of the Mtn. Tank			
Priority Date:	1965			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-097-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89701 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013195 (Revoked or rejected status) Filed by SLD:				
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWNW	25	8N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM	---- CFS		
Annual Volume of Use:		---- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:		---- Gal	0.06 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Wad Tank				
Priority Date:	1965				

Comments:
Tank is dugout facility in small unnamed lake

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-098-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89707 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013262 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	27	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.19 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Phoneline Tank			
Priority Date:	1962			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-099-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:	39-03-89708			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:	38-013281 (Revoked or rejected status)			
Type of Uses:	Stockpond, Fish, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		25	8N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.09 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.12 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Sawmill Tank				
Priority Date:	1955				
Comments:					

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-100-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-89715 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013223 (Revoked or rejected status) Filed by SLD:			
Type of Uses:	Stockpond, Fish, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	24	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.09 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Bigelow Tank			
Priority Date:	1965			

Comments:
Aerial photo indicates possible dugout facility within unnamed lake.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-101-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90447 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012983 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Grapevine Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	25	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	June 7, 1907			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-102-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90449 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013099 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Sawmill Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	25	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1912			

Comments:
Spring location differs from that in filings and is based on telephone conversation with National Forest personnel

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-103-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90450 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013011 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Basin Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	21	8N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.144 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	July 12, 1907	
Comments:		

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-104-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90465 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012956 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW, W2SW	34	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1907			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-105-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90466 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025018 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Loon Sink			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	36	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1907			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-106-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90467 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-024980 Filed by SLD:				
Type of Uses:	Wildlife				
Source of Supply:	Canvasback Sink				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		36	8N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-107-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90468 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013100 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Rim Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	36	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1907			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-108-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90469 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012984 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Point of the Mtn. Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	E2NW	31	8N	29E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	---- GPM	---- CFS			
Annual Volume of Use:	---- Gal	0.093 AF			
Storage Volume or Reservoir Capacity:	---- Gal	---- AF			
Irrigated Acres (if irrigation use):	---- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	July 12, 1907				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-109-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90474 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-024979 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Heron Marsh			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 3 (NWSW)	31	8N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	July 12, 1907			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-110-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90482 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015579 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lots 6 & 7 (W2SW)	6	7N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-111-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90483 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012954 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	South Fork Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1(NENE),	SENE	4	7N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	0.100 AF			
Storage Volume or Reservoir Capacity:	----- Gal	----- AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-112-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90484 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012962 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW, W2SE	4	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-113-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90499 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013104 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Clay Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	9	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-114-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90500 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012974 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	P.C. Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-115-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90501 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013095 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Hay Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	11	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-116-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90502 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013081 Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Abandoned Spring				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSE	11	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:	---- GPM	---- CFS			
Annual Volume of Use:	---- Gal	0.146 AF			
Storage Volume or Reservoir Capacity:	---- Gal	---- AF			
Irrigated Acres (if irrigation use):	---- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				
Comments:					

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-117-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90503 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012985 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Head Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	12	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-118-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90504 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015578 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE, SWSE	12	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-119-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90505 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-015571 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lots 4 & 5 (W2NW)	8	7N	29E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-120-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90513 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013006 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Baca Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	14	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-121-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90514 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013003 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Duker Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	14	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-122-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90515 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012988 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Wahl Knoll Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	15	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.090 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-123-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90516 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012961 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	South Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SE	17	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-124-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90518 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025017 Filed by SLD:				
Type of Uses:	Wildlife				
Source of Supply:	Hay Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (SWNW),	SENW	18	7N	28E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	---- GPM	---- CFS			
Annual Volume of Use:	---- Gal	0.00 AF			
Storage Volume or Reservoir Capacity:	---- Gal	---- AF			
Irrigated Acres (if irrigation use):	---- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	August 17, 1898				

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-125-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90526 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025015 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Hog Wallow Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-126-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90527 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025014 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Wing Marsh			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	19	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-127-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90528 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012975 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	(Head of) South Fork Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	20	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
USGS map labels spring as Head of South Fork Spring, while the filings say only South Fork Spring.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-128-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90529 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013096 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	(Bill) Riley Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	21	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Filings are for Riley Spring, but USGS quad map shows it as Bill Riley Spring

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-129-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90530 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013002 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Cabin Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	23	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-130-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90531 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013005 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Rudd Knoll Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	23	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-131-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90532 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013080 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Lost Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-132-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90533 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013078 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Miller Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	24	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.146 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-133-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90538 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-025013 Filed by SLD:			
Type of Uses:	Wildlife			
Source of Supply:	Pool Corral Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	29	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Non-consumptive use for waterfowl habitat

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-134-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90539 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-013103 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Reservoir Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	30	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-135-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90541 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012960 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	E. Fork Little Colorado River			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	25	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			

Comments:
Instream use

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-136-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-03-90554 Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012973 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Pool Corral Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	36	7N	27E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.100 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	August 17, 1898			
Comments:				

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-137-U
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-012955 Filed by SLD:
Type of Uses:	Stockwater, Wildlife
Source of Supply:	Joe Baca Draw (tributary to S. Fork LCR)

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	34	8N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.100 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	

Name of Reservoir or Stockpond:

Priority Date: Ausust 17, 1898 (as per other instream use adjudication claims)

Comments:
Instream use.
USFS unable to find a corresponding adjudication claim.
Filing indicates source is S. Fork Little Colorado River, but location on USGS quad map shows source to be a tributary of the S. Fork called Joe Baca Draw

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-138-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 36-102277 Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Grapevine Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	24	8N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.60 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Ausust 17, 1898 (as per other instream use adjudication claims)			

Comments:
Instream use
USFS unable to find corresponding adjudication claim for this instream use.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-139-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	24	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.03 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.03 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-140-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Local runoff			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	24	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.06 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.06 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of aerial photo that shows pond.
Tank is dugout facility within high water level of Russell Reservoir

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-141-U
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:
Type of Uses:	Stockpond, Wildlife
Source of Supply:	South Fork Little Colorado River

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	20	7N	28E

Place of Use (if different from POD):	Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	1.4 AF
Storage Volume or Reservoir Capacity:	---- Gal	1.4 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-142-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: 39-07-08948 Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: 38-013275 Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWSW	22	7N	28E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM	---- CFS		
Annual Volume of Use:		---- Gal	0.093 AF		
Storage Volume or Reservoir Capacity:		---- Gal	0.48 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Deep Pit Tank				
Priority Date:	1965				

Comments:
This facility lies very near the Little Colorado River basin divide. The filings and USFS personnel indicate the tank lies on the Black River side of the divide outside the LCR basin, however aerial stereo photo interpretation indicates it lies on the LCR side of the divide within the LCR basin.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-143-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.6 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.6 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1992			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of the aerial photo that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-144-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	10	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.09 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.09 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1969			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-145-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	9	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.2 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.2 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of the aerial photo that shows pond.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-146-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	16	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.03 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.03 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Prior to 1991	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-147-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	31	7N	28E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.1 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.1 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Prior to 1991			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity
Priority date taken from date of USGS quad map that shows pond.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-148-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	NW	2	7N	28E
Place of Use (if different from POD):				
Reservoir:	SWNW	1	7N	28E
	N2, N2S2	2	7N	28E

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.12 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Mexican Hay Lake	
Priority Date:	1908	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-149-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SESE	19	7N	28E
Place of Use (if different from POD):				
Reservoir:	S2SE, SESW	19	7N	28E
	N2NE	30	7N	28E

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Hog Wallow Lake	
Priority Date:	1908	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-150-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed washes			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	NESE	13	7N	28E
	NWSW	18	7N	29E
Place of Use (if different from POD):				
Reservoir:	SE	13	7N	28E
	N2NE	24	7N	28E
	W2SW	18	7N	29E
	NWNW	19	7N	29E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Slade Reservoir	
Priority Date:	May 5, 1941	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from CWR #1712 which transfers storage rights from Rudd to Slade Res.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-151-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Water Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SENE	13	7N	28E
Place of Use (if different from POD):				
Reservoir:	SENE	13	7N	28E
	SWNW, NWSW	18	7N	29E

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Water Canyon Reservoir	
Priority Date:	1893	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-152-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash & draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Unnamed wash into feeder canal :	NWNW	24	7N	28E
Dam on unnamed draw:	SWSE, SESW	13	7N	28E
Place of Use (if different from POD):				
Reservoir:	SW, W2SE	13	7N	28E

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Atcheson Reservoir	
Priority Date:	1886	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-153-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Lake:	SE, SENE	23	7N	28E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Rudd Reservoir	
Priority Date:	1895	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT--HOPI 26 BAR RANCH

WATER RIGHT #:	26-154-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SESE	7	7N	29E
Place of Use (if different from POD):				
Reservoir:	S2SE	7	7N	29E
	N2NE	18	7N	29E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.12 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Little George Reservoir	
Priority Date:	1912	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from the Norviel Decree.

WATER RIGHT ABSTRACT–HOPI 26 BAR RANCH

WATER RIGHT #:	26-155-U
Applicable Adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by USFS: Filed by SLD:
Type of Uses:	Stockwater, Wildlife
Source of Supply:	Unnamed draw

Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Lake:	W2NW	19	7N	29E
		E2NE	24	7N	28E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.12 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Russell Reservoir	
Priority Date:	Prior to 1958	

Comments:
This abstract is for incidental stock & wildlife water use only, and does not include other primary uses covered by other filings or the Norviel Decree.
The annual volume was estimated from other abstracts for instream stockwater & wildlife use.
The priority date was derived from a 1958 USGS 15 minute quad map on which the reservoir appears.

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI AJA RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
AJ-001- D	39-03-88056		Mitchell Well	13.26	13.26
AJ-002- D	39-03-88057		Pablo's Well	19.89	19.89
AJ-003- D	39-03-88058		Big Windmill Well	19.89	19.89
AJ-004- D	39-03-88059		Fidel Well	13.26	13.26
AJ-005- D	39-03-88060		Red Hill Well	19.89	19.89
AJ-006- S	39-03-88061	39-03-86297	White Tank Well	19.89	19.89
AJ-007- D	39-03-88062		Clear Cr. Well	13.26	13.26
AJ-008- D	39-03-88063		Home (Aja HQ) Well	19.89	
AJ-009- D	39-03-88064		Chevelon Cr. Reservoir	2.86	
AJ-010- S	39-03-88065		McHood (Clear Cr.) Res.	2.19	
AJ-011- DS	39-03-88066	39-03-86389	Cement Tank	1.60	0.04
AJ-012- D	39-03-88067		Chevelon Cr. Pump	2.21	
AJ-013- D	39-03-88068		Corbet Tank	2.54	2.54
AJ-014- D	39-03-88069		Big Tank	5.80	5.80
AJ-015- DS	39-03-88070	39-03-86296	White Tank	15.00	6.86
AJ-016- S	39-03-88071	39-03-86395	Chevelon Tank	60.00	53.30
AJ-017- S	39-03-88072	39-03-86301	Red Tank	64.50	64.50
AJ-018- S	39-03-88073	39-03-86295	Broken Tank	208.00	208.00
AJ-019- S	39-03-88074	39-03-86496	Diego Tank	19.40	19.40
AJ-020- D	39-03-88075		Home Tank	1.53	1.53
AJ-021- DS	39-03-88076	39-03-86495	Bottom Tank	14.70	14.70
AJ-022- DS	39-03-88077	39-03-86391	Lower Pasture Small Tank	5.00	8.00
AJ-023- D	39-03-88078		County Tank #1	2.50	3.70
AJ-024- S	39-03-88079	39-03-86505	River Tank #3	0.83	0.70
AJ-025- S	39-03-88080	39-03-86507	Little Chevelon Tank	3.63	3.30
AJ-026- S	39-03-88081	39-03-86392	Big L Tank	10.85	10.85
AJ-027- S	39-03-88082		County Tank #2	0.50	0.90
AJ-028- D	39-03-88083		Bull Tank	4.00	6.00
AJ-029- D	39-03-88084		Little Tank-16 Mile Pasture	0.90	1.50
AJ-030- DS	39-03-88085	39-03-86494	Little Tank	8.61	8.61
AJ-031- D	39-03-88086		River Tank #1	0.50	0.80
AJ-032- D	39-03-88087		Little L Tank	1.70	0.30
AJ-033- D	39-03-88088		River Tank #2	0.30	0.50
AJ-034- D	39-03-88089		Big Windmill Tank	0.60	1.10
AJ-035- DS	39-03-88090	39-03-86196	Little Antelope Tank	3.60	5.70
AJ-036- S	39-03-88091		Antelope Tanks Res.	Combined w/ AJ-037-S	
AJ-037- S	39-03-88092	39-03-86298	Antelope Tanks (Combined)	32.30	29.90
AJ-038- D	39-03-88093		Pablo's Tank	0.90	1.60
AJ-039- D	39-03-88094		County Well Hole	0.70	1.20
AJ-040- D	39-03-88095		Red Hill Tank	1.50	2.40
AJ-041- D	39-03-88096		Small Tank Clear Cr.	3.00	5.00
AJ-042- S	39-03-88097	39-03-86300	Coyote Tank	9.17	13.00
AJ-043- D	39-03-88098		28-Mile Tank	9.00	15.00
AJ-044- D	39-03-88099		Twin Tank #2	3.00	4.50
AJ-045- D	39-03-88100		Fidel Tank	0.60	1.00
AJ-046- D	39-03-88101		Middle Tank Clear Cr.	5.70	9.30
AJ-047- D	39-03-88102		County Tank-Big Windmill	0.30	0.40
AJ-048- S	39-03-88103	39-03-86390	Twin Tank #1	3.00	5.00
AJ-049- S	39-03-88104		Antelope Tank A	Combined w/ AJ-037-S	
AJ-050- S		39-03-86396	Babbitt Tank Canyon instrm.	0.83	
AJ-051- S		39-03-86502	Little Colo. R. instream use	0.83	
AJ-052- S		39-03-86506	Chevelon Ditch wide area	0.83	
			Total	654.74	636.27

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI AJA RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
AJ-001- D	39-03-88056		Mitchell Well	13.26	13.26
AJ-002- D	39-03-88057		Pablo's Well	19.89	19.89
AJ-003- D	39-03-88058		Big Windmill Well	19.89	19.89
AJ-004- D	39-03-88059		Fidel Well	13.26	13.26
AJ-005- D	39-03-88060		Red Hill Well	19.89	19.89
AJ-007- D	39-03-88062		Clear Cr. Well	13.26	13.26
AJ-008- D	39-03-88063		Home (Aja HQ) Well	19.89	
AJ-009- D	39-03-88064		Chevelon Cr. Reservoir	2.86	
AJ-012- D	39-03-88067		Chevelon Cr. Pump	2.21	
AJ-013- D	39-03-88068		Corbet Tank	2.54	2.54
AJ-014- D	39-03-88069		Big Tank	5.80	5.80
AJ-020- D	39-03-88075		Home Tank	1.53	1.53
AJ-023- D	39-03-88078		County Tank #1	2.50	3.70
AJ-028- D	39-03-88083		Bull Tank	4.00	6.00
AJ-029- D	39-03-88084		Little Tank-16 Mile Pasture	0.90	1.50
AJ-031- D	39-03-88086		River Tank #1	0.50	0.80
AJ-032- D	39-03-88087		Little L Tank	1.70	0.30
AJ-033- D	39-03-88088		River Tank #2	0.30	0.50
AJ-034- D	39-03-88089		Big Windmill Tank	0.60	1.10
AJ-038- D	39-03-88093		Pablo's Tank	0.90	1.60
AJ-039- D	39-03-88094		County Well Hole	0.70	1.20
AJ-040- D	39-03-88095		Red Hill Tank	1.50	2.40
AJ-041- D	39-03-88096		Small Tank Clear Cr.	3.00	5.00
AJ-043- D	39-03-88098		28-Mile Tank	9.00	15.00
AJ-044- D	39-03-88099		Twin Tank #2	3.00	4.50
AJ-045- D	39-03-88100		Fidel Tank	0.60	1.00
AJ-046- D	39-03-88101		Middle Tank Clear Cr.	5.70	9.30
AJ-047- D	39-03-88102		County Tank-Big Windmill	0.30	0.40
AJ-011- DS	39-03-88066	39-03-86389	Cement Tank	1.60	0.04
AJ-015- DS	39-03-88070	39-03-86296	White Tank	15.00	6.86
AJ-021- DS	39-03-88076	39-03-86495	Bottom Tank	14.70	14.70
AJ-022- DS	39-03-88077	39-03-86391	Lower Pasture Small Tank	5.00	8.00
AJ-030- DS	39-03-88085	39-03-86494	Little Tank	8.61	8.61
AJ-035- DS	39-03-88090	39-03-86196	Little Antelope Tank	3.60	5.70
AJ-006- S	39-03-88061	39-03-86297	White Tank Well	19.89	19.89
AJ-010- S	39-03-88065		McHood (Clear Cr.) Res.	2.19	
AJ-016- S	39-03-88071	39-03-86395	Chevelon Tank	60.00	53.30
AJ-017- S	39-03-88072	39-03-86301	Red Tank	64.50	64.50
AJ-018- S	39-03-88073	39-03-86295	Broken Tank	208.00	208.00
AJ-019- S	39-03-88074	39-03-86496	Diego Tank	19.40	19.40
AJ-024- S	39-03-88079	39-03-86505	River Tank #3	0.83	0.70
AJ-025- S	39-03-88080	39-03-86507	Little Chevelon Tank	3.63	3.30
AJ-026- S	39-03-88081	39-03-86392	Big L Tank	10.85	10.85
AJ-027- S	39-03-88082		County Tank #2	0.50	0.90
AJ-036- S	39-03-88091		Antelope Tanks Res.	Combined w/ AJ-037-S	
AJ-037- S	39-03-88092	39-03-86298	Antelope Tanks (Combined)	32.30	29.90
AJ-042- S	39-03-88097	39-03-86300	Coyote Tank	9.17	13.00
AJ-048- S	39-03-88103	39-03-86390	Twin Tank #1	3.00	5.00
AJ-049- S	39-03-88104		Antelope Tank A	Combined w/ AJ-037-S	
AJ-050- S		39-03-86396	Babbitt Tank Canyon instrm.	0.83	
AJ-051- S		39-03-86502	Little Colo. R. instream use	0.83	
AJ-052- S		39-03-86506	Chevelon Ditch wide area	0.83	
			Total	654.74	636.27

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88056			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649888			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Mitchell Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2NW		12	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		10 GPM		—— CFS	
Annual Volume of Use:		4,320,000 Gal		13.26 AF	
Storage Volume or Reservoir Capacity:		4,320,000 Gal		13.26 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-002-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88057			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649887			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Pablo's Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		17	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		---- CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88058			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649886			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Big Windmill Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		—— CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88059			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649884			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Fidel Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		17	17N	16E

Place of Use (if different from POD): Same as POD

Flow Rate:	10 GPM	----- CFS
Annual Volume of Use:	4,320,000 Gal	13.26 AF
Storage Volume or Reservoir Capacity:	4,320,000 Gal	13.26 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Jun 14, 1982	

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-005-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88060			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649882			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Red Hill Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		----- CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		6,480,000 Gal		19.89 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88061			
	Filed by SLD:	39-03-86297			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649883			
	Filed by SLD:	55-614260			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Groundwater (White Tank Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 13		2	16N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	15 GPM	---- CFS
Annual Volume of Use:	6,480,000 Gal	19.89 AF
Storage Volume or Reservoir Capacity:	6,480,000 Gal	19.89 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Jun 20, 1910	

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88062			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649881			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Groundwater (Clear Creek Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		31	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		10 GPM		—— CFS	
Annual Volume of Use:		4,320,000 Gal		13.26 AF	
Storage Volume or Reservoir Capacity:		4,320,000 Gal		13.26 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Water stored in tanks

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88063			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-649885			
	Filed by SLD:				
Type of Uses:	Domestic, Irrigation, Stockwater				
Source of Supply:	Groundwater (Home (Aja HQ) Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		35	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		---- CFS	
Annual Volume of Use:		6,480,000 Gal		19.89 AF	
Storage Volume or Reservoir Capacity:		---- Gal		---- AF	
Irrigated Acres (if irrigation use):		---- Ac	(Incidental domestic lawn irrigation only)		
Name of Reservoir or Stockpond:					
Priority Date:	Jun 14, 1982				

Comments:
Windmill has apparently been replaced by a pump based on claim information and aerial photo analysis.

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88064			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026306			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):					
Chevelon Creek Reservoir	S2NE		27	18N	17E
Tank (Not claimed on this abstract)	SWNE		11	18N	16E
Tank (Not claimed on this abstract)	SENE		7	18N	17E
Tank (Not claimed on this abstract)	NWSE		16	18N	17E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		931,700 Gal		2.86 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1942				

Comments:
Parts of the Place of Use of the filings (3 tanks) also have separate stockpond storage claims covered by abstracts AJ-031-D, AJ-033-D, and AJ-024-S. Therefore, this abstract is only for the annual use for instream stockwatering from Chevelon Creek Reservoir. Stock tanks served by the ditch system originating at Chevelon Creek Dam are associated with separate abstracts.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88065			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026314			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	McHood (Clear Creek) Reservoir				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		10	18N	16E
Place of Use (if different from POD):	W2W2,NENW,SESW		16	18N	16E
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	713,000 Gal		2.19 AF		
Storage Volume or Reservoir Capacity:	----- Gal		----- AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	McHood (Clear Creek) Reservoir				
Priority Date:	Prior to 1942				

Comments:
The POD and POU herein reflect updated information not included in the filings. The old dam (SWSW sec.10) has been abandoned and a new higher dam built in the SWNW. The old POU (SWSW sec 10) was off ranch property, however the new reservoir backs up water onto ranch associated State lease land in section 16.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-011-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88066			
	Filed by SLD:	39-03-86389			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026308			
	Filed by SLD:	36-001282, 38-090736			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		23	17N	15E
Place of Use (if different from POD):	SESW		23	17N	15E
	NENW		26	17N	15E
Flow Rate:		---- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.04 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Cement Tank				
Priority Date:	Prior to 1884				

Comments:
1983 aerial photo indicates pond filled with sediment.
SLD filings list source as Antelope Wash, but a USGS map shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-012-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88067			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026307			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		21	16N	16E
Place of Use (if different from POD):	NENW		17	16N	16E
	NENW		21	16N	16E
Flow Rate:		---- GPM		----- CFS	
Annual Volume of Use:		720,000 Gal		2.21 AF	
Storage Volume or Reservoir Capacity:		----- Gal		---- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1942				

Comments:
Water pumped from Chevelon Creek via pipe to 2 separate water tank locations

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-013-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88068			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026305			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		11	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		829,000 Gal		2.54 AF	
Storage Volume or Reservoir Capacity:		829,000 Gal		2.54 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Corbet Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-014-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88069			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026313			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		29	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		1,890,000 Gal		5.80 AF	
Storage Volume or Reservoir Capacity:		1,890,000 Gal		5.80 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Big Tank				
Priority Date:	Prior to 1942				

Comments:
Two interconnecting pond system.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-015-DS	
Applicable Adjudication Filings:	Filed by ranch:	39-03-88070
	Filed by SLD:	39-03-86296
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026311
	Filed by SLD:	36-001221, 38-090729
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 13	2	16N	15E
	Lot 16	3	16N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	15.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	6.86 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	White Tank	
Priority Date:	Prior to 1884	

Comments:
Annual amount based on ranch filing 36-026311
SLD filings indicate source is White Tank Wash, but USGS map shows wash is unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-016-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88071			
	Filed by SLD:	39-03-86395			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026315			
	Filed by SLD:	33-090028, 36-001286			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2SE		6	17N	17E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	---- CFS
Annual Volume of Use:	----- Gal	60.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	53.30 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Chevelon Tank	
Priority Date:	Prior to 1884	

Comments:
SLD filings indicate source is Little Chevelon Wash, but a USGS maps shows wash unnamed.

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-017-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88072			
	Filed by SLD:	39-03-86301			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026316			
	Filed by SLD:	33-090030, 36-001223			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		18	16N	16E
Place of Use (if different from POD):	SWNW,NWSW		18	16N	16E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		64.50 AF	
Storage Volume or Reservoir Capacity:		----- Gal		64.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Red Tank				
Priority Date:	Prior to 1884				

Comments:
This abstract covers a combined 2-pond system, with the upstream pond used to collect sediment.
SLD filings indicate source is named Red Tank Wash, but USGS map shows wash to be unnamed.

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88073			
	Filed by SLD:	39-03-86295			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026317			
	Filed by SLD:	33-090032, 36-001220			
Type of Uses:	Stockpond, Recreation/Fish/ Wildlife				
Source of Supply:	4 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		36	16N	14E
Place of Use (if different from POD):	S2NE,N2SE,SENW		36	16N	14E

Flow Rate:	—— GPM	----- CFS
Annual Volume of Use:	----- Gal	208.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	208.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Broken Tank	
Priority Date:	Dec 30,1853	
Comments:		

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-019-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88074			
	Filed by SLD:	39-03-86496			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026309			
	Filed by SLD:	33-090034, 36-001354			
Type of Uses:	Stockpond,Recreation/Fish/ Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		32	18N	16E
Place of Use (if different from POD):	W2NW		32	18N	16E

Flow Rate:	—— GPM	——— CFS
Annual Volume of Use:	——— Gal	19.40 AF
Storage Volume or Reservoir Capacity:	——— Gal	19.40 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Diego Tank	
Priority Date:	Prior to 1884	

Comments:
SLD filings name source as Diego Wash, but a USGS maps shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88075			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026312			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		35	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		499,100 Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		499,100 Gal		1.53 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Home Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-021-DS	
Applicable Adjudication Filings:	Filed by ranch:	39-03-88076
	Filed by SLD:	39-03-86495
Applicable Pre-adjudication Filings:	Filed by ranch:	36-026310
	Filed by SLD:	36-001353, 38-090732
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed tributary to Clear Creek	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	24	18N	16E
	NWNW	25	18N	16E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	14.70 AF
Storage Volume or Reservoir Capacity:	---- Gal	14.70 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Bottom Tank	
Priority Date:	Prior to 1884	

Comments:
SLD filings list source as Vizcaya Wash, but a USGS map shows the tributary to be unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-022-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88077			
	Filed by SLD:	39-03-86391			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026342			
	Filed by SLD:	36-001284, 38-091284			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		10	17N	16E
	SWSW		3	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		5.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		8.00 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Lower (L) Pasture Small Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings list source as Relic Wash, but USGS map show wash unnamed

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-023-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88078			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026341			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Big Tanks				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		29	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.50 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.70 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	County Tank #1				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-024-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88079			
	Filed by SLD:	39-03-86505			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026321			
	Filed by SLD:	36-001355, 38-090731			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	NWSE		16	18N	17E

Flow Rate:	----- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.83 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.70 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	River Tank #3	
Priority Date:	Dec 30, 1853	

Comments:
Water is diverted from Chevelon Creek at dam into a main ditch (called the Aja Ditch on SLD filings). Water is diverted from the main ditch in the NWSE sec.16, T18N,R17E into the stockpond which is the Place of Use. This stockpond, called River Tank #3 on ranch filings and River Tank #1 on SLD filings, is called River Tank #3 on this abstract because other ranch filings indicate River Tank #1 to be at a different location covered by abstract AJ-031-D.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-025-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88080			
	Filed by SLD:	39-03-86507			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026322			
	Filed by SLD:	36-001356, 38-090730			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		32	18N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.63 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.30 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little Chevelon Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings indicate source is Little Chevelon Wash, but a USGS map shows wash to be unnamed.

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-026-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88081			
	Filed by SLD:	39-03-86392			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026328			
	Filed by SLD:	36-001285, 38-090735			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	E2NE		16	17N	16E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	10.85 AF
Storage Volume or Reservoir Capacity:	—— Gal	10.85 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Big L Tank (L Tank)	
Priority Date:	Dec 30, 1853	

Comments:
SLD filings name source as Relic Wash, but USGS map shows wash unnamed.
Ranch filings call the stockpond Big L Tank while the SLD filings call it L Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-027-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88082			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026327			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 10		6	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.50 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.90 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	County Tank #2				
Priority Date:	Prior to 1942				

Comments:
Stockpond in old borrow pit

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-028-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88083			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026339			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		25	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		4.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		6.00 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Bull Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-029-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88084			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026340			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		5	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.90 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little Tank-16 Mile Pasture				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-030-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88085			
	Filed by SLD:	39-03-86494			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026329			
	Filed by SLD:	36-001352, 38-090733			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		16	18N	16E
Place of Use (if different from POD):	SESE		16	18N	16E
	NENE		21	18N	16E
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	----- Gal		8.61 AF		
Storage Volume or Reservoir Capacity:	----- Gal		8.61 AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Little Tank (Highway 99 Tank)				
Priority Date:	Dec 30, 1853				

Comments:
Ranch filings call the stockpond Little Tank while SLD filings call it Highway 99 Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-031-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88086			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026323			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Chevelon Creek and unnamed source				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
POD from Chevelon Cr. for main ditch	NWSW		23	18N	17E
POD for pond from main ditch carrying combined water.	SENE		11	18N	16E
Place of Use (if different from POD):	SWNE		11	18N	16E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.80 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	River Tank #1	
Priority Date:	Prior to 1942	

Comments:
Chevelon Creek water is diverted into main ditch at Chevelon Creek Dam. Unnamed wash water flows into main ditch in SENE sec.11,T18N,R16E. The combined water is then diverted from main ditch downstream from the unnamed wash confluence into a diversion ditch which goes to the stockpond which is the Place of Use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-032-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88087			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026324			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		11	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.70 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.30 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little L Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-033-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88088			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026319			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	SENE		7	18N	17E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.30 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.50 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	River Tank #2	
Priority Date:	Prior to 1942	

Comments:
Water is diverted at Chevelon Creek Dam into main ditch. Water is diverted from main ditch into a diversion ditch in the SWNW sec.8, T18N,R17E and carried to the stockpond which is the Place of Use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-034-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88089			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026318			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.10 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Big Windmill Tank				
Priority Date:	Prior to 1942				

Comments:
Adjacent County Tank-Big Windwmill described by AJ-047-D

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-035-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88090			
	Filed by SLD:	39-03-86196			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026325			
	Filed by SLD:	36-001166, 38-091187			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2SW		35	16N	15E
Place of Use (if different from POD):	S2SW		35	16N	15E
	NWNW		2	15N	15E
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	----- Gal		3.60 AF		
Storage Volume or Reservoir Capacity:	----- Gal		5.70 AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Little Antelope Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings name source as Little Antelope Wash, but USGS map show wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-036-S	COMBINED WITH AJ-037-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-88091
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Antelope Tank Reservoir	
Priority Date:		

Comments:
This pond was claimed separately by the ranch former owners but is part of a 3-pond system combined in AJ-037-S

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-037-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88091,39-03-88092,39-03-88104			
	Filed by SLD:	39-03-86298			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026343,38-026344,38-026345			
	Filed by SLD:	33-090036,36-001252			
Type of Uses:	Stockpond, Recreation/Fish/Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2SE, SWNE		26	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM	---- CFS		
Annual Volume of Use:		---- Gal	32.30 AF		
Storage Volume or Reservoir Capacity:		---- Gal	29.90 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Antelope Tanks (Combined)				
Priority Date:	Prior to 1884				

Comments:
This abstract covers a combined 3-pond system as claimed in the SLD filings. The former ranch owners claimed these 3 ponds separately, but this abstract combines the 3 pond claims (AJ-036-S, AJ-037-S and AJ-049-S) into one claim.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88093			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026320			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		18	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.90 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.60 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Pablo's Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-039-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88094			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026326			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		13	16N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.70 AF
Storage Volume or Reservoir Capacity:	---- Gal	1.20 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	County Well Hole	
Priority Date:	Prior to 1942	
Comments:		

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88095			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026332			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		23	16N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		----- Gal		2.40 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Red Hill Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-041-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88096			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026331			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		33	18N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Small Tank Clear Creek				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-042-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88097			
	Filed by SLD:	39-03-86300			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026330			
	Filed by SLD:	36-001222, 38-091247			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		6	16N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		9.17 AF	
Storage Volume or Reservoir Capacity:		----- Gal		13.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Coyote Tank				
Priority Date:	Prior to 1884				

Comments:
SLD filings list source as Antelope Wash, but USGS map shows wash unnamed.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88098			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026335			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		15	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		9.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		15.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	28-Mile Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-044-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88099			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026333			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		25	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Twin Tank #2				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-045-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88100			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026337			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		17	17N	16E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		0.60 AF	
Storage Volume or Reservoir Capacity:		—— Gal		1.00 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Fidel Tank				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-046-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88101			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026334			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		5.70 AF	
Storage Volume or Reservoir Capacity:		---- Gal		9.30 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Middle Tank Clear Creek				
Priority Date:	Prior to 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-047-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88102			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026336			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed and Big Windmill Tank				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESENW		4	15N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	County Tank-Big Windmill				
Priority Date:	Prior to 1942				

Comments:
Adjacent Big Windmill Tank described in AJ-034-D

WATER RIGHT ABSTRACT–HOPI AJA RANCH

WATER RIGHT #:	AJ-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-88103			
	Filed by SLD:	39-03-86390			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-026338			
	Filed by SLD:	36-001283, 38-090734			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		36	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Twin Tank #1 (Upper Twin Tank)				
Priority Date:	Dec 30, 1853				

Comments:
SLD filings name source as Antelope Wash but USGS map shows wash unnamed.
Ranch filings name stockpond Twin Tank #1 while SLD filings name it Upper Twin Tank.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-049-S	COMBINED WITH AJ-037-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-88104
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Antelope Tank A	

Priority Date:

Comments:
This pond was claimed separately by the ranch former owners but is part of a 3-pond system combined in AJ-037-S

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-050-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86396		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000319		
Type of Uses:	Stockwater, Recreation/Fish/ Wildlife			
Source of Supply:	Babbitt Tank Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE, SESE	16	17N	17E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.83 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Dec 30, 1853			

Comments:
Instream stockwater use.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-051-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86502			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-102004, 36-000358			
Type of Uses:	Stockwater, Recreation/Fish/Wildlife				
Source of Supply:	Little Colorado River				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		8	18N	17E
	NW, NE, SE		16	18N	17E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	---- GPM		---- CFS		
Annual Volume of Use:	---- Gal		0.83 AF		
Storage Volume or Reservoir Capacity:	---- Gal		---- AF		
Irrigated Acres (if irrigation use):	---- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Dec 30, 1853				

Comments:
Instream stockwater use.
Although SLD filing 36-000358 is not considered by the SLD to form the basis of claim for 39-03-86502, it is included herein because it generally covers the same POD & POU as 36-102004 and 39-03-86502.

WATER RIGHT ABSTRACT--HOPI AJA RANCH

WATER RIGHT #:	AJ-052-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86506			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:	36-000320			
Type of Uses:	Stockwater, Recreation/Fish Wildlife				
Source of Supply:	Chevelon Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Chevelon Creek Dam	NWSW		23	18N	17E
Place of Use (if different from POD):	NENE		22	18N	17E
Flow Rate:		----- GPM		---- CFS	
Annual Volume of Use:		----- Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		----- Gal		---- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Water is diverted at Chevelon Creek Dam into a ditch. The Place of Use is a dug-out wide area on the ditch, but is not considered a stockpond.

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- S	39-03-89390		Mario's Tank	0.69	0.23
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
			Total	604.903	912.163

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease lands)

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- S	39-03-89390		Mario's Tank	0.69	0.23
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
			Total	604.903	912.163

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease lands)

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-85497			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90533			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.74 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	David's Tank				
Priority Date:	Apr.15, 1985				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-002-D	COMBINED WITH CC-135-D
Applicable Adjudication Filings:	Filed by ranch:	39-03-85498
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Bob's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-003-S	COMBINED WITH CC-108-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-85499
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	---- AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Bruce's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-004-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87911			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613987			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Hotcake Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well	Lot 1 (SESE)		33	17N	14E
Place of Use (if different from POD):					
Tank	Lot 4 (NWNW)		3	16N	14E
	Lot 4 (SWSW)		34	17N	14E
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	1.91 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	0.29 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Prior to 1933				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Storage volume estimated from aerial photos.
Location of well on aerial photos differs slightly from that shown on USGS quad maps.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-005-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87912			
	Filed by SLD:	39-03-86474			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613986, 55-613989			
	Filed by SLD:	55-614300			
Type of Uses:	Domestic, Stockpond, Wildlife				
Source of Supply:	Groundwater (Rock Station Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 3 (NESE)		36	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	2.06 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	1.00 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Dec. 30, 1853				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Annual use involves 1.2 AF domestic use and .86 AF stock use

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87913			
	Filed by SLD:	39-03-86385			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021624, 36-021625			
	Filed by SLD:	36-000360			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW, SWSW		24	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.85 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1884	

Comments:
Instream use--aerial photos show no stockpond as suggested by claim 39-03-87913.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-007-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87914			
	Filed by SLD:	39-03-86388			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021626			
	Filed by SLD:	36-000361			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2SE, SENE		36	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 30, 1853				

Comments:
Instream use--aerial photos indicate no stockpond as suggested by claim 39-03-87914.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87915			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021627			
	Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		4.10 AF	
Storage Volume or Reservoir Capacity:		---- Gal		---- AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to Feb. 1915				

Comments:
Instream use-- aerial photos indicate no stockpond as suggested by claim 39-03-87915.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87916			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021640			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		9	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	3.27 AF		
Storage Volume or Reservoir Capacity:		—— Gal	3.27 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Pump Ranch Tank				
Priority Date:	Apr.1, 1947				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-010-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87917			
	Filed by SLD:	39-03-86473			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021628			
	Filed by SLD:	36-101550			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NE,SWNE,SENW,N2SW		36	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM	----- CFS			
Annual Volume of Use:	----- Gal	4.00 AF			
Storage Volume or Reservoir Capacity:	----- Gal	----- AF			
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 30, 1853				

Comments:
Instream use–aerial photos indicate no stockpond as suggested by 39-03-87917.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-011-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87918			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021631, 38-021660			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 11, 13		3	16N	13E
Place of Use (if different from POD):					
Pond	Lots 11,14		3	16N	13E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		33.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		15.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Dick Heart Tank				
Priority Date:	1913				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-012-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87919			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021630			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NWNW		17	17N	15E
Place of Use (if different from POD):					
Pond	NW		17	17N	15E
	E2NE		18	17N	15E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		99.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		173.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Moonlight Bay Reservoir				
Priority Date:	Prior to Feb.1915				

Comments:
Reservoir capacity estimated from USGS quad maps and aerial photos.
Reservoir capacity amount does not include the capacity of adjacent Upper & Middle Moonlight Tanks (CC-013-D & CC-036-D).

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-013-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87920			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021638			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSWNW		17	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.51 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.51 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Upper Moonlight Tank				
Priority Date:	Prior to 1960				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-014-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87921, 39-03-87930			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021658, 38-021659			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dams	Lots 4,5		1	16N	14E
Place of Use (if different from POD):					
Ponds	Lots 4,5		1	16N	14E
	Lot 8		2	16N	14E
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	15.36 AF		
Storage Volume or Reservoir Capacity:		—— Gal	15.36 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Simms Tank and Silt Trap				
Priority Date:	Prior to 1957				

Comments:
Annual use and capacity are the combined amounts for the main tank and silt trap which acts as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-015-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87922			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021645			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)		35	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.21 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.21 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Middle Eckles Tank				
Priority Date:	Jul. 1968				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-016-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87923			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021637			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		21	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	3.70 AF
Storage Volume or Reservoir Capacity:	---- Gal	3.70 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	King Tank	
Priority Date:	Nov. 22, 1968	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-017-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87924			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021641			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.30 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Haight-Lovelady Tank				
Priority Date:	Prior to 1930				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87925			
	Filed by SLD:	39-03-86486			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021642			
	Filed by SLD:	36-001347, 38-091310			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		9.55 AF	
Storage Volume or Reservoir Capacity:		----- Gal		9.55 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lower Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-019-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87926			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021643			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)		35	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.37 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.37 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Lower Eckles Tank				
Priority Date:	Jul. 1968				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-020-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87927			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021644			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4		1	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.39 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.39 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Upper Eckles Tank				
Priority Date:	Jul. 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-021-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87928			
	Filed by SLD:	39-03-86282			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021647			
	Filed by SLD:	36-001212, 38-090745			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSW		12	16N	13E
Place of Use (if different from POD):					
Pond	SWSW,NWSW		12	16N	13E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	4.31 AF
Storage Volume or Reservoir Capacity:	----- Gal	4.31 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Elk Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-022-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87929			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021639			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		3	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.83 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Horse (Horse Pasture) Tank				
Priority Date:	Fall 1968				

Comments:
The USGS quad map labels this facility Horse Pasture Tank while the filings call it Horse Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-023-DS	COMBINED WITH CC-014-DS
Applicable Adjudication Filings:	Filed by ranch:	39-03-87930
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	---- AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Simms Silt Trap	
Priority Date:		

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87931			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021636			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.10 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.10 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Cedar Tree Tank				
Priority Date:	Spring 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-025-S	COMBINED WITH CC-031-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-87932
	Filed by SLD:	39-03-86386
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	---- AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	

Name of Reservoir or Stockpond: Autry Silt Trap

Priority Date:

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-026-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87933			
	Filed by SLD:	39-03-86373			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021650			
	Filed by SLD:	36-001268, 38-090746			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		6.05 AF	
Storage Volume or Reservoir Capacity:		---- Gal		15.00 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Chauncey Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-027-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87934			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	Permit 33-78405			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 2,3		5	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		72.73 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Rincon Tank				
Priority Date:	Jul.1945				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-028-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87935		
	Filed by SLD:	39-03-86384		
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021655		
	Filed by SLD:	36-001279, 38-090737		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2NW	12	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	3.44 AF
Storage Volume or Reservoir Capacity:	---- Gal	3.44 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Sloppy Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-029-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87936			
	Filed by SLD:	39-03-86487			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021653			
	Filed by SLD:	36-001348, 38-091311			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.06 AF	
Storage Volume or Reservoir Capacity:		----- Gal		2.06 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Upper Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-030-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87937			
	Filed by SLD:	39-03-86375			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021652			
	Filed by SLD:	36-001270, 38-090738			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		9.89 AF	
Storage Volume or Reservoir Capacity:		----- Gal		9.89 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Fanning Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-031-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87938, 39-03-87932
	Filed by SLD:	39-03-86387, 39-03-86386
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021656, 38-021657
	Filed by SLD:	36-001281, 38-090744, 36-001280, 38-090747
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE, NESW	28	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	19.30 AF
Storage Volume or Reservoir Capacity:	----- Gal	19.30 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Autry Tank and Silt Trap	
Priority Date:	Prior to 1884	

Comments:
The annual use and capacity amounts are the combined amounts for the main tank and silt trap which is considered as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-032-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87939			
	Filed by SLD:	39-03-86283			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021646			
	Filed by SLD:	36-001213, 38-091242			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		22	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.10 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.10 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Hidden Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-033-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87940			
	Filed by SLD:	39-03-86380			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021648			
	Filed by SLD:	36-001275, 38-091282			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		15.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		15.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lower Gravel Pit Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-034-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87941			
	Filed by SLD:	39-03-86286			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021649			
	Filed by SLD:	36-001215, 38-095349			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		2.81 AF	
Storage Volume or Reservoir Capacity:		---- Gal		2.81 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Birch Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-035-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87942			
	Filed by SLD:	39-03-86381			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021651			
	Filed by SLD:	36-001276, 38-091283			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWSE		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		9.85 AF	
Storage Volume or Reservoir Capacity:		---- Gal		9.85 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Upper Gravel Pit Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-036-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87943			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021654			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		10.39 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.39 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Middle Moonlight Tank				
Priority Date:	Prior to 1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-037-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87944			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613988			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Winslow Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		28	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	15 GPM	----- CFS
Annual Volume of Use:	----- Gal	1.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.10 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Aug. 20, 1969	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual volume and storage amounts estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87945			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613983			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Tin Ranch Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		23	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	—— CFS		
Annual Volume of Use:	——	Gal	1.50 AF		
Storage Volume or Reservoir Capacity:	——	Gal	0.13 AF		
Irrigated Acres (if irrigation use):	——	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1933				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-039-O				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87946			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613984			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Boundary Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		19	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	1.60 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	0.10 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1930				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and storage volume was estimated from other similar wells on the Clear Creek Ranch.
This well, which lies on off-ranch private land, is shared by the Clear Creek Ranch and the Bar-T-Bar Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87947			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613985			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #12)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		17	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	1.91 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	0.50 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Prior to 1940				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from similar wells on the Clear Creek Ranch.
Storage amount estimated from aerial photos.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-041-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87948			
	Filed by SLD:	39-03-86289			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021629			
	Filed by SLD:	36-000359			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Clear Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Instream pump	SESENE		16	16N	14E
Place of Use (if different from POD):					
Tank	NWSENE		16	16N	14E

Flow Rate:	----- GPM	---- CFS
Annual Volume of Use:	----- Gal	3.84 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.04 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Dec. 20, 1853	

Comments:
Pump is called Pump Ranch pump.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-042-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87949		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	East Sunset Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	31	17N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	2 GPM	----- CFS
Annual Volume of Use:	----- Gal	3.23 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1940	

Comments:
Annual use estimated from flow rate.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89313			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064280			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)		1	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.19 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Model T Tank Section 1				
Priority Date:	Jun. 1, 1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-044-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89314			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090467			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)		1	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		8.62 AF	
Storage Volume or Reservoir Capacity:		----- Gal		8.62 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Model T Tank Section 2				
Priority Date:	Jun. 1, 1955				

Comments:
Annual amount estimated to equal tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-045-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89315			
	Filed by SLD:	39-03-86466			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064264			
	Filed by SLD:	36-001332, 36-101679			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		4	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.68 AF	
Storage Volume or Reservoir Capacity:		----- Gal		13.69 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	(Old) Coon Tank				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89315 is closest to being correct.
Filing 38-090685 was also filed by the SLD but was withdrawn because the tank was constructed prior to 1919.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-046-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89316
	Filed by SLD:	39-03-86465
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064245
	Filed by SLD:	36-001331, 38-091305
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	4	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	6.16 AF
Storage Volume or Reservoir Capacity:	----- Gal	14.67 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	New Coon Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-090700 was also filed by the SLD but it was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064245 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-047-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89317
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090458, 55-606818
	Filed by SLD:	
Type of Uses:	Stockpond	
Source of Supply:	Groundwater (Well #11)	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	9	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	9 GPM	----- CFS
Annual Volume of Use:	----- Gal	1.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.476 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Windmill Well #11 Tank	
Priority Date:	1935	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89318			
	Filed by SLD:	39-03-91635			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90546			
	Filed by SLD:	36-101739			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		315,750 Gal		0.97 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.32 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #3 Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-049-D			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89319		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	55-606822		
		Filed by SLD:			
Type of Uses:		Domestic, Stockpond			
Source of Supply:		Groundwater (Hartman (House) Well)			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	NWNE	13	18N	14E
Place of Use (if different from POD):					
	Tank	NWNE	13	18N	14E
	House	Lot 1 (NENE)	13	18N	14E

Flow Rate:	10 GPM	----- CFS
Annual Volume of Use:	----- Gal	2.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.075 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	House Well Tank	
Priority Date:	1935	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
These facilities lie on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-050-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89320			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90547			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		13	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,751 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.38 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Loyd's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-051-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89321			
	Filed by SLD:	39-03-86467			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064249			
	Filed by SLD:	36-001333, 38-090698			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		14	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		---- Gal		5.10 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Ray's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-052-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89322			
	Filed by SLD:	39-03-86468			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 161			
	Filed by SLD:	36-001334, 38-095417			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NENW		20	18N	14E
Place of Use (if different from POD):					
Pond	E2NW		20	18N	14E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	19.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	19.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Rowlan (Rawlin's) Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-090459 was also filed by the ranch but it was withdrawn.
The ranch filings and USGS quad call this Rowlan Tank and the SLD filings call it Rawlin's Tank

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-053-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89323			
	Filed by SLD:	39-03-86469			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064251			
	Filed by SLD:	36-001335, 36-101680			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		22	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	11.50 AF
Storage Volume or Reservoir Capacity:	—— Gal	14.31 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Prairie Dog Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-091306 was also filed by the SLD but was withdrawn because the tank was built before 1919.
Tank capacity is based on calculations attached th the ranch adjudication claim.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-054-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89324			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90548			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.59 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Immanuel's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-055-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89325
	Filed by SLD:	39-03-86470
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087869
	Filed by SLD:	36-001336, 38-090704
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	24	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	1.20 AF
Storage Volume or Reservoir Capacity:	----- Gal	3.38 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Roadway Tank #2	
Priority Date:	Prior to 1884	

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-056-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89326			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087870			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		2.67 AF	
Storage Volume or Reservoir Capacity:		---- Gal		14.61 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Roadway Tank #1				
Priority Date:	May 31, 1971				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-057-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89327			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064250			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SESW		25	18N	14E
Place of Use (if different from POD):					
Pond	SESW,SWSW		25	18N	14E
Flow Rate:		—— GPM	——— CFS		
Annual Volume of Use:		——— Gal	1.68 AF		
Storage Volume or Reservoir Capacity:		——— Gal	0.40 AF		
Irrigated Acres (if irrigation use):		——— Ac			
Name of Reservoir or Stockpond:	Karen's Tank				
Priority Date:	Jun.1, 1971				

Comments:
Tank need rehabilitation.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-058-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89328
	Filed by SLD:	39-03-86471
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064248
	Filed by SLD:	36-001337, 38-090684
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	34	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	3.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	5.99 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Highway (Clay's) Tank	
Priority Date:	Prior to 1884	

Comments:
Claim 39-89328 calls this tank Clay's Tank, while the other filings refer to it as Highway Tank.
The tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-059-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89329			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064255			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		31	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		---- Gal	5.04 AF		
Storage Volume or Reservoir Capacity:		—— Gal	10.06 AF		
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Old Hobo Tank				
Priority Date:	Jun. 1, 1930				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-060-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89330			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064273			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 8		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.01 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Fisher Tank				
Priority Date:	May 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-061-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331			
	Filed by SLD:	39-03-86472			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90529, 38-090468, 38-064247			
	Filed by SLD:	36-001338, 38-090703			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	NWNE, NENW	34	18N	14E	

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	16.88 AF
Storage Volume or Reservoir Capacity:	----- Gal	16.88 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Highway Tanks #1 & #2 (Clay's Tank)	
Priority Date:	Prior to 1884	

Comments:
Highway Tanks #1 and #2 are considered one overall system in this abstract.
The ranch filings (except 38-064247) call these tanks Highway Tanks #1 and #2, while the SLD filings and ranch filing 38-064247 call it Clay's Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-86472 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-062-S	COMBINED WITH CC-061-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	—— AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Highway Tank #2	

Priority Date:

Comments:
Highway Tanks #1 and #2 are considered one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-063-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89332			
	Filed by SLD:	39-03-86475			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064278			
	Filed by SLD:	36-001339, 38-091307			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		4	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		—— Gal		12.05 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Model A Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-064-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89333			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606825			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well	SWSE		32	19N	15E
Place of Use (if different from POD):					
Tank	SWSE		32	19N	15E
	Lot 2 (NWNE)		5	18N	15E
Flow Rate:		20 GPM		---- CFS	
Annual Volume of Use:		---- Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.10 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Windmill Well #8 Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
The annual use amount is estimated from other similar wells on the Clear Creek Ranch.
The tank is on the section line common to sections 32 and 5.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-065-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89334			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90539			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		41,057 Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.04 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Mediator Tank				
Priority Date:	Jun. 15, 1983				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-066-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89335			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90538			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		62,563 Gal		0.19 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.06 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Pennsylvania Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-067-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89336			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90535			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		37,147 Gal		0.11 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.04 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Alpha Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-068-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89337			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90540			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	45,945 Gal	0.14 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.05 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Daniel's Tank	
Priority Date:	Oct. 15, 1982	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-069-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89338			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90541			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		66,474 Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.07 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Hoskin's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-070-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89339			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90542			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		28,349 Gal		0.09 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.03 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Mathew's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-071-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89340			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90543			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		18,574 Gal		0.06 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.02 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Omega Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-072-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89341			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90544			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		156,408 Gal		0.48 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.16 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Waterhole #1				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-073-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89342			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90545			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.56 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Waterhole #2				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-074-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89343			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90537			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		50,833 Gal		0.16 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.05 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Mark's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-075-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89344			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90536			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	29,327 Gal	0.09 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.03 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Luke's Tank	
Priority Date:	Oct.15, 1982	
Comments:		

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-076-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89345			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90534			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		40,080 Gal		0.12 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.04 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Branch Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-077-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89346
	Filed by SLD:	39-03-86480
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064244
	Filed by SLD:	36-001344, 38-090696
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	16	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	9.90 AF
Storage Volume or Reservoir Capacity:	----- Gal	11.59 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Bar Pitt Tank	
Priority Date:	Dec.30,1853	

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-078-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89347
	Filed by SLD:	39-03-86481
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064281
	Filed by SLD:	See notes
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	18	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	3.36 AF
Storage Volume or Reservoir Capacity:	----- Gal	10.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Headquarters (HQ) Tank	
Priority Date:	Prior to 1884	

Comments:
Filings 36-001345 and 38-090705 were also filed by the SLD but were withdrawn. In addition, the SLD has indicated that it will also withdraw its adjudication filing for this facility because it is breached and will not be rebuilt. However the tank capacity in this abstract is based on the SLD adjudication claim.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-079-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89348			
	Filed by SLD:	39-03-86485			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090457, 55-606823			
	Filed by SLD:	55-614301			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Highway Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well	SWNW		30	18N	15E
Place of Use (if different from POD):					
Tank	NWSW		30	18N	15E

Flow Rate:	15 GPM	----- CFS
Annual Volume of Use:	----- Gal	0.74 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.074 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Highway Well Tank	
Priority Date:	1927	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Filings 39-03-89348 and 38-090457 indicate the source is both surface and groundwater, however the aerial photos indicate the only source is a well.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-080-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89349			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064257			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 1,2 (N2NE)		1	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	3.92 AF		
Storage Volume or Reservoir Capacity:		—— Gal	4.10 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Jun.1, 1958				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-081-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89350			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090466, 55-606820			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and groundwater(Well #7)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well and pond	SWSW		13	18N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	9 GPM	----- CFS
Annual Volume of Use:	----- Gal	1.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.235 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Windmill Well #7 Tank	
Priority Date:	1927	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-082-SO				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89351			
	Filed by SLD:	39-03-86462			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064267			
	Filed by SLD:	36-001328, 36-101678			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		21	18N	13E
	NWNE		28	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		8.33 AF	
Storage Volume or Reservoir Capacity:		----- Gal		14.86 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Rock House Tank				
Priority Date:	Prior to 1884				

Comments:
SLD documents indicate this facility is shared with the adjacent lease holder.
Filing 38-090661 was also filed by the SLD but was withdrawn because the tank was built prior to 1919.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064267 is closest to being correct.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-083-O Abstract deleted–not associated with Clear Cr. Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89352
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 347
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	King Tank	
Priority Date:		

Comments:
The Hopi ranch manager indicates this tank is not used by the ranch.
This tank is sometimes confused with Upper King Tank (CC-140-S) which some people also call King Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-084-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89353			
	Filed by SLD:	39-03-86464			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064256			
	Filed by SLD:	36-001330, 38-091304			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SE, NESW		36	18N	13E
Place of Use (if different from POD):	W2SE		36	18N	13E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		6.72 AF	
Storage Volume or Reservoir Capacity:		----- Gal		15.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	New Hobo Tank				
Priority Date:	Dec. 30, 1853				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-085-O Abstract deleted--not associated with Clear Cr.Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89354
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of : Points of Diversion (POD):	Qtr Qtr	Sec T R
Place of Use (if different from POD):		
Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	—— AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Tucker Tank Well Tank	
Priority Date:		

Comments:
This well and tank are just outside the ranch lease boundary on privately owned land, and are/or were apparently used by the private landownwer.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-086-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89355			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90551			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		13	19N	14E
Place of Use (if different from POD):	SESW,SWSE		13	19N	14E
	NENW, NWNE		24	19N	14E
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		2.32 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Tucker Tank (Ditch)				
Priority Date:	Mar.1, 1983				

Comments:
This facility lies on the section line between sections 13 and 24.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-087-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89356		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	38-064262		
		Filed by SLD:			
Type of Uses:		Stockpond			
Source of Supply:		Unnamed wash			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Dam	SWSE	20	19N	14E
Place of Use (if different from POD):					
	Pond	SWSE,SESW	20	19N	14E

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	3.92 AF
Storage Volume or Reservoir Capacity:	—— Gal	5.60 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	North Corner Tank	
Priority Date:	Jun. 1, 1975	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-088-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89357			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606824			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #1)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		21	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		----- CFS	
Annual Volume of Use:		----- Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.74 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Windmill Well #1 Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-089-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89358			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90520			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		27.07 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Indian Tank				
Priority Date:	Jun.1, 1935				

Comments:
Filing 38-064265 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89358 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-090-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89359			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90521			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SW		21	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		17.25 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Squaw Tank				
Priority Date:	May 1, 1955				

Comments:
Filing 38-064246 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89359 is closest to being correct.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-091-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89360			
	Filed by SLD:	39-03-86565			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064261			
	Filed by SLD:	36-001393, 38-091329			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSWNE,SESENW		24	19N	14E
Place of Use (if different from POD):					
Pond	SWNE,SENW,NWSE, & NESW		24	19N	14E
Flow Rate:		---- GPM		----- CFS	
Annual Volume of Use:		---- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		---- Gal		12.60 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Tucker Tank West				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using.aerial photos indicates the claimed capacity in 38-064261 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-092-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89361			
	Filed by SLD:	39-03-86566			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064243			
	Filed by SLD:	36-001394, 38-091330			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWNE		24	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		14.73 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Tucker Tank East				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-093-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89362		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank East			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2SWNE	24	19N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.95 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond: Tucker Tank East Overflow

Priority Date: May 1, 1955

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-094-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89363		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWNE	24	19N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.293 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.293 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Tucker Tank Middle	
Priority Date:	May 1, 1955	

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-095-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89364			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank West				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESENW		24	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.077 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.077 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Tucker Tank West Overflow				
Priority Date:	May 1, 1955				

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-096-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89365			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090469			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		21	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.965 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.965 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Windmill Well #1 Tank (Soil)				
Priority Date:	Jul. 1, 1975				

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-097-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89366			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064259			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		—— Gal		5.60 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Rabbit Tank				
Priority Date:	Jun.15, 1975				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-098-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89367
	Filed by SLD:	39-03-86569
Applicable Pre-adjudication Filings:	Filed by ranch:	38-027013
	Filed by SLD:	36-001395, 38-088817
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	16	19N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	1.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.38 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Tamerack (Right of Way) Tank	
Priority Date:	Dec. 30, 1853	

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.
Filing 38-027013 calls this facility Right of Way Tank while the rest of the filings call it Tamerack Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-099-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89368			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064263			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		31	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		11.27 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	North Tank				
Priority Date:	Jul. 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-100-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89369			
	Filed by SLD:	39-03-91764			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90527			
	Filed by SLD:	36-104874			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		36	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.78 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.80 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Waterhole #4				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-101-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89370			
	Filed by SLD:	39-03-86383			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064258			
	Filed by SLD:	36-001278, 38-090697			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		4	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		2.18 AF	
Storage Volume or Reservoir Capacity:		---- Gal		14.59 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Bull Pasture Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-102-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89371			
	Filed by SLD:	39-03-91636			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90524			
	Filed by SLD:	36-101740			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NESW		6	17N	14E
Place of Use (if different from POD):					
Pond	E2SW		6	17N	14E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	2.38 AF
Storage Volume or Reservoir Capacity:	----- Gal	4.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Father's (Little John's) Tank	
Priority Date:	Prior to 1884	

Comments:
Both the ranch and SLD filings call this facility Father's Tank, but the USGS quad map labels it Little John's Tank.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-103-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89372			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064252			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		7	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.29 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little John's Tank				
Priority Date:	Jun. 1, 1970				

Comments:
The USGS has mislabled a different pond as Little John's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-104-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89373			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90522			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.95 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Phil's Tank				
Priority Date:	Oct.15, 1984				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-105-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89374			
	Filed by SLD:	39-03-91633			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90525			
	Filed by SLD:	36-101737, 38-095499			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		18	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		---- CFS	
Annual Volume of Use:		----- Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.95 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Brett's (Lynn's) Tank				
Priority Date:	Prior to 1884				

Comments:
Both the ranch and SLD filings call this facility Brett's Tank, but the USGS quad map labels it Lynn's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-106-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89375			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90549			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		3	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		2.14 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	LTMV Tank				
Priority Date:	Oct. 1, 1983				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-107-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376			
	Filed by SLD:	39-03-86372			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606819			
	Filed by SLD:	55-614285			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #10)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		12 GPM		—— CFS	
Annual Volume of Use:		—— Gal		0.74 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.09 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Windmill Well #10 Tanks				
Priority Date:	Jun.20, 1910				

Comments:
Water from well is stored in adjacent tanks and/or drinkers.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-108-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376, 39-03-85499			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90530			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		325,851 Gal	1.00 AF		
Storage Volume or Reservoir Capacity:		—— Gal	1.07 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Bruce's Tank				
Priority Date:	Apr.29, 1985				

Comments:
The ranch has filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-109-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89377			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 346			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		5	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		10.41 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.41 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Porcupine (Red Hill) Tank				
Priority Date:	Dec.13, 1929				

Comments:
Tank capacity is based on calculations attached to the ranch adjudication claim, and represents the total capacity of a 2-pond connected system.
Filing 38-090460 was also filed by the ranch but was withdrawn.
Annual use amount assumed equal to tank capacity.
Filing CWR 346 calls this facility Red Hill Tank, but the other filings and the USGS quad map call it Porcupine Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-110-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89378			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606821			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater ((West)Sunset Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)		7	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		12 GPM		---- CFS	
Annual Volume of Use:		---- Gal		3.59 AF	
Storage Volume or Reservoir Capacity:		---- Gal		3.59 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	West Sunset Well Tank				
Priority Date:	Aug.7, 1953				

Comments:
Water from well is stored in adjacent tanks and/or drinkers.
Assume annual use amount is equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-111-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89379			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064268			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		9	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		1.96 AF	
Storage Volume or Reservoir Capacity:		---- Gal		1.35 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Sunset Tank				
Priority Date:	Apr.1, 1972				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-112-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89380			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090461			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		0.136 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.136 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Blazer Tank				
Priority Date:	Nov.1, 1968				

Comments:
Needs rehabilitation.
Assume annual use amount is equal to pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-113-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89381			
	Filed by SLD:	39-03-91765			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90550			
	Filed by SLD:	36-104875			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.13 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Carolyn's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-114-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89382			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064254			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENENW		13	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	1.12 AF
Storage Volume or Reservoir Capacity:	---- Gal	2.37 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Lynn's Tank	
Priority Date:	May 1, 1970	

Comments:
The USGS quad has mislabeled a different pond as Lynn's Tank.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-115-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89383			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90523			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		---- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		---- Gal		1.35 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Joyanna's Tank				
Priority Date:	Oct.7, 1984				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-116-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89384			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064253			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		1.68 AF	
Storage Volume or Reservoir Capacity:		---- Gal		2.46 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Robin's Tank				
Priority Date:	Jun.1,1968				

Comments:
The USGS quad map has mislabeled a different pond as Robin's Tank.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-117-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89385
	Filed by SLD:	39-03-91634
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064276
	Filed by SLD:	36-101738, 38-095500
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	20	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	5.31 AF
Storage Volume or Reservoir Capacity:	—— Gal	11.01 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Upper Red Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-118-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89386			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090463			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		23	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.399 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.399 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Jul.15, 1942	

Comments:
The filings indicate this facility to be a stockpond, however aerial photo analysis and the ground photo attached to the claim show it to be ponded water in Jacks Canyon and hence instream use.
Annual use is assumed to be equal to the claimed storage amount.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-119-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89387			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064277			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NW		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	3.64 AF		
Storage Volume or Reservoir Capacity:		—— Gal	12.29 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Lower Red Tank				
Priority Date:	Jul.15, 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-120-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89388			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090462			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		3.63 AF	
Storage Volume or Reservoir Capacity:		---- Gal		3.63 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Dirt Dike				
Priority Date:	Jul.15, 1942				

Comments:
Annual use amount is assumed to be equal to the pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-121-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89389			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-) 90528			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		23.94 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Larry's (Robin's) Tank				
Priority Date:	Oct.15, 1978				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89389 is closest to being correct.
The filings call this facility Larry's Tank, but the USGS quad map labels it Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-122-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89390			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90526			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.69 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.23 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Mario's Tank				
Priority Date:	Oct.15, 1983				

Comments:
This abstract replaces a previous version that claimed water for the old Jacks Canyon Dam.
Mario's Tank lies within the pool area of the old Jacks Canyon Dam.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-123-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89391			
	Filed by SLD:	39-03-86374			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090464			
	Filed by SLD:	36-001269, 38-090701			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		24	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	2.33 AF
Storage Volume or Reservoir Capacity:	---- Gal	10.85 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Dark (Little) Tank	
Priority Date:	Prior to 1884	

Comments:
The ranch filings call this facility Dark Tank while the SLD filings call it Little Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-124-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89392			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064271			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.11 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little Tank				
Priority Date:	Jun.1, 1935				

Comments:
This facility is not to be confused with CC-123-S which the SLD also calls Little Tank.
Tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-125-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89393			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090465			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.413 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.413 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Oct.7, 1942				

Comments:
The filings claim this facility as a stockpond, however aerial photo analysis and ground photos attached to the claim indicate it is a ponded area in Jacks Canyon and hence instream use.
Annual use is assumed to equal the claim pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-126-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89394			
	Filed by SLD:	39-03-86377			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064275			
	Filed by SLD:	36-001272			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		28	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	----- Gal		22.24 AF		
Storage Volume or Reservoir Capacity:	----- Gal		10.50 AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Middle Red Tank West				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064275 is closest to being correct.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-127-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89395			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESENW		28	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	12.23 AF
Storage Volume or Reservoir Capacity:	—— Gal	12.23 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Middle Red Tank East	
Priority Date:	Jun.1, 1935	

Comments:
Annual use assumed to be equal to pond capacity.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-128-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89396			
	Filed by SLD:	39-03-86378			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064274			
	Filed by SLD:	36-001273, 38-090699			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		32	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		---- Gal		3.77 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Mule Tank				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064274 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-129-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89397			
	Filed by SLD:	39-03-86379			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064269			
	Filed by SLD:	See notes			
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1		5	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.40 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Echols Tank				
Priority Date:	Jun. 1, 1954				

Comments:
The SLD has withdrawn filings 36-001274 and 38-090687 and plans to withdraw 39-03-86379 because Echols Tank actually lies on non-State land in section 5 rather than section 32, T17N, R13E as indicated on the filings.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-130-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89398			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064272			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		—— Gal		7.23 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Caliche Tank				
Priority Date:	Jun.1, 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-131-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89399			
	Filed by SLD:	39-03-86382			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087868			
	Filed by SLD:	36-001277, 38-090702			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		---- CFS	
Annual Volume of Use:		----- Gal		3.80 AF	
Storage Volume or Reservoir Capacity:		----- Gal		3.80 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Grandpa (Agape) Tank				
Priority Date:	Prior to 1884				

Comments:
Claim 39-89399 calls this facility Agape Tank, while the rest of the filings call it Grandpa Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-087868 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-132-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89400			
	Filed by SLD:	39-03-86281			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064270			
	Filed by SLD:	36-001211, 38-090695			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		8	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.89 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Burch Tank				
Priority Date:	Prior to 1884				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-133-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89401			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064260			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		18	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.40 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Railroad Tank				
Priority Date:	Jun.1, 1955				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-134-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89402			
	Filed by SLD:	39-03-86570			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064279			
	Filed by SLD:	36-001396, 38-090686			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		32	19N	15E
	NWNW		33	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		----- Gal		8.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Big Johns Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-135-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89403, 39-03-85498			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90531			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2NENW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		323,570 Gal		0.99 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.33 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Bob's Tank				
Priority Date:	Apr. 22, 1985				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-136-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89404			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90532			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		18	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	165,206 Gal	0.51 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.17 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Mesa Tank	
Priority Date:	Apr. 24, 1983	

Comments:
Claim 39-03-89404 indicates the source of water is a well, however the existence of a well could not be verified. The CWR, filed after the adjudication claim, indicates the source is surface water.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-137-O Abstract deleted--not associated with Clear Cr. Ranch.	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89405
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-500987
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Sunset Estates Well Tank	

Priority Date:

Comments:
This facility lies on property not associated with the current Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-138-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86288		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000359		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Clear Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, SESW	10	16N	14E
	SENE, E2SE	16	16N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.85 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1884	

Comments:
Instream use.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-139-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86376		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-001271, 38-090748		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	26	17N	13E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	5.39 AF
Storage Volume or Reservoir Capacity:	---- Gal	4.90 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Old Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-140-O			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86463		
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064266		
	Filed by SLD:	36-001329, 38-091303		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2NW	32	18N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	6.30 AF
Storage Volume or Reservoir Capacity:	—— Gal	13.40 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Upper King Tank (King Tank)	
Priority Date:	Prior to 1884	

Comments:
The SLD indicates this tank is shared use by the Clear Creek Ranch and the adjacent lease holder.
The SLD filings call this facility Upper King Tank while the ranch filing calls it King Tank. It is also called King Tank by the Hopi ranch manager, and should not be confused with another tank about one-half mile downstream in section 29 also known as King Tank (CC-083-O).

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-141-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86484		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000362		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Jacks Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, S2SW	30	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.85 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Instream use.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-142-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	4	17N	13E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.90 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.90 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Apr.28, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-143-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	12	18N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	2.50 AF		
Storage Volume or Reservoir Capacity:	—— Gal	2.50 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-144-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)	13	18N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.10 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-145-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NW portion of Lot 2	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.60 AF
Storage Volume or Reservoir Capacity:	—— Gal	0.60 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-146-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2 portion of Lot 2	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.30 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.30 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Sep.22, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-147-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2 portion of Lot 3	5	16N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	3.20 AF
Storage Volume or Reservoir Capacity:	—— Gal	3.20 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-148-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE	19	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	2.00 AF		
Storage Volume or Reservoir Capacity:	----- Gal	2.00 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1986			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-149-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	19	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.30 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.30 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to Apr. 28, 1992			

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-150-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	7	18N	15E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	----- GPM	------ CFS
Annual Volume of Use:	----- Gal	0.07 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.07 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-001- D	39-03-84303			Combined with HT-010-D & HT-011-D		
HT-002- S	39-03-84304	39-03-86553		Charlebois Tank #1	3.36	3.33
HT-003- S	39-03-84304	39-03-86554		Charlebois Tank #2	3.36	3.33
HT-004- S	39-03-84304	39-03-86555		Charlebois Tank #3	1.56	0.88
HT-005- DS	39-03-84305	39-03-86634		Babbitt Tank #1	4.60	4.60
HT-006- S	39-03-84305	39-03-86635		Babbitt Tank #2	2.13	1.88
HT-007- D	39-03-84306			Gorton Tank #1	1.95	0.65
HT-008- D	39-03-84306			Gorton Tank #2	2.24	1.86
HT-009- S	39-03-84306			Gorton Tank #3	2.24	1.36
HT-010- D	39-03-84307			Casner Tank #1	2.24	0.78
HT-011- D	39-03-84307			Casner Tank #2	2.24	1.90
HT-012- U	39-03-84359		39-03-90813	Horse Lake	0.92	
HT-013- U	39-03-84360		39-03-90797	Als Lake	0.92	
HT-014- U	39-03-84361			Ashurst Lake	0.92	
HT-015- U	39-03-84362		39-03-90831	Ducksnest Lake	0.92	
HT-016- U	39-03-84363			Coconino Dam & Reservoir	0.92	
HT-017- DU	39-03-84364		39-03-90771	Dry (Grass Flat) Lake	0.92	
HT-018- U	39-03-84365		39-03-90769	Perry Lake	0.92	
HT-019- U	39-03-84366		39-03-90811	Indian Lake	0.92	
HT-020- U	39-03-84367		39-03-90798	Pickett Lake	0.92	
HT-021- U	39-03-84368		39-03-90800	Post Lake	0.92	
HT-022 U	39-03-84369		39-03-90818	Deep Lake	0.92	
HT-023- U	39-03-84370		39-03-90801	Potato Lake	0.92	
HT-024- D	39-03-84371			Hart HQ Well	5.23	0.23
HT-025- D	39-03-84372			Courthouse Well	3.36	0.08
HT-026- D	39-03-84373			Walters (#1) Well	3.36	0.08
HT-027- D	39-03-84374			Hard Luck Well	3.36	0.08
HT-028- D	39-03-84375			Bull Well	3.36	0.08
HT-029- S	39-03-84376	39-03-86633		Oil Well	3.36	0.08
HT-030- D	39-03-84377			Reservation Well	3.36	0.08
HT-031- D	39-03-84378			Bumpy Road Well	3.36	0.08
HT-032- D	39-03-84379			Walters #2 Well	3.36	0.08
HT-033- D	39-03-84380			Sunshine Well	3.36	0.08
HT-034- D	39-03-84381			Anderson Well	3.36	0.15
HT-035- O	39-03-84382			Abstract deleted-- no longer associated with ranch		
HT-036- S	39-03-84383	39-03-86551		Elliott Tank	12.90	12.90
HT-037- D	39-03-84384			Walters Tank	1.12	0.44
HT-038- D	39-03-84385			Lute Hart Tank	2.24	3.20
HT-039- D	39-03-84386			Sinkhole Tank #1	2.24	4.09
HT-040- D	39-03-84387			Chimney Tank	2.24	1.13
HT-041- D	39-03-84388			Courthouse Tank	0.78	0.26
HT-042- D	39-03-84389			Boyd Reid Tank	2.24	1.70
HT-043- D	39-03-84390			Prosperity Tank	2.24	0.98
HT-044- D	39-03-84391			66 Tank #1	1.12	0.50
HT-045- D	39-03-84392			66 Tank #2	1.12	0.60
HT-046- S	39-03-84393	39-03-86631,2		Reservation Tank & Silt Trap	15.29	15.29
HT-047- O	39-03-84394			Sunshine Tank	0.67	2.90
HT-048- S	39-03-84395	39-03-86557		Corner Tank	4.66	4.66
HT-049- S	39-03-84396	39-03-86552		Eli Tank	22.23	22.23
HT-050- DS	39-03-84397	39-03-86550		Big Anderson Tank	61.04	61.04
HT-051- S	39-03-84398	39-03-86638		Phone Line Tank	12.66	12.66
HT-052- U	39-03-84399		39-03-91106	Johns Tank	0.92	1.64
HT-053- U	39-03-84400		39-03-91126	Little Elk (Redone) Tank	0.92	1.15
HT-054- U	39-03-84401		39-03-91147	Sinkhole Tank #2 (Section 23 Tank)	0.92	1.40
HT-055- U	39-03-84402		39-03-91117	Newman Tank	0.92	0.92
HT-056- U	39-03-84403		39-03-91120	Pine Grove #1 Tank	0.92	0.96

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-057- U	39-03-84404		39-03-91118	Otteson Tank	0.75	0.59
HT-058- U	39-03-84405		39-03-91125	Railroad Tank	0.92	2.98
HT-059- U	39-03-84406		39-03-91240	Morman Canyon Tank #1	0.92	1.98
HT-060- U	39-03-84407		39-03-91238	Morgan Tank	1.12	0.95
HT-061- U	39-03-84409		Pending	Snag Tank	1.12	1.18
HT-062- U	39-03-84410		39-03-91095	Casner (Corner) Tank	1.38	0.48
HT-063- D	39-03-84411			Crossroads Tank	3.36	3.64
HT-064- D	39-03-84412			Wagon Box Tank	3.36	11.07
HT-065- S		39-03-86636		Cement Tank	5.46	5.46
HT-066- O		39-03-86637		Abstract deleted-- no longer associated with ranch		
HT-067- U			39-03-90802	Ashurst Spring	0.25	
HT-068- U			39-03-90803	Elliott Spring	0.30	
HT-069- U			39-03-90805	Horse Lake #2	0.22	
HT-070- U			39-03-90806	Little Ashurst Lake	0.22	
HT-071- U			39-03-90808	McDermitt Lake	0.15	
HT-072- U			39-03-90809	Long Lake	0.15	
HT-073- U			39-03-90810	Indian Lake	0.15	
HT-074- U			39-03-90819	Dead Horse Lake & Tank	0.15	1.83
HT-075- U			39-03-90822	Antelope Lake	0.22	
HT-076- U			39-03-90824	Boot Lake	0.15	
HT-077- U			39-03-90825	Breezy Lake	0.22	
HT-078- U			39-03-90829	Ducks Lake	0.20	
HT-079- U			39-03-90830	East McDermitt Lake	0.20	
HT-080- U			39-03-90832	Elliott Lake	0.30	
HT-081- U			39-03-90834	Boot Lake Spring	1.23	
HT-082- U			39-03-90837	Morman Spring	0.44	
HT-083- U			39-03-90846	Exploration Well	0.10	
HT-084- U			39-03-91140	Walnut Creek Tank	0.22	1.54
HT-085- U			39-03-91233	Long Lake Tank	0.16	2.30
HT-086- U			39-03-91234	Low Tank	0.22	0.65
HT-087- U			39-03-91247	Potato Lake Tank	0.22	1.64
HT-088- U			39-03-91254	Boot Jr. Tank	0.16	1.61
HT-089- U			39-03-91258	Breezy #2 Tank	0.16	1.16
HT-090- U			39-03-91263	Ashurst Run Tank	0.16	0.81
HT-091- U			39-03-91274	Spur Tank	0.22	0.73
HT-092- U			39-03-91281	Section 25 Tank	0.15	0.79
HT-093- D				Exploratory Oil Well	3.00	
HT-094- S				Unnamed tank	0.24	0.24
HT-095- D				Unnamed tank	1.92	1.92
HT-096- S				Unnamed tank	3.60	3.60
HT-097- D				Unnamed tank	2.24	2.24
HT-098- D				Unnamed tank	4.16	4.16
HT-099- S				Unnamed tank	1.40	1.40
HT-100- D				Unnamed tank	1.40	1.40
HT-101- D				Unnamed tank	0.60	0.60
HT-102- D				Unnamed tank	1.12	1.12
HT-103- D				Unnamed tank	2.60	2.60
HT-104- U				Unnamed tank	3.00	3.00
				Total	275.17	235.99

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch
U = U.S. Forest Service permit land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease & USFS permit lands
2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI HART RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-001- D	39-03-84303			Combined with HT-010-D & HT-011-D		
HT-007- D	39-03-84306			Gorton Tank #1	1.95	0.65
HT-008- D	39-03-84306			Gorton Tank #2	2.24	1.86
HT-010- D	39-03-84307			Casner Tank #1	2.24	0.78
HT-011- D	39-03-84307			Casner Tank #2	2.24	1.90
HT-024- D	39-03-84371			Hart HQ Well	5.23	0.23
HT-025- D	39-03-84372			Courthouse Well	3.36	0.08
HT-026- D	39-03-84373			Walters (#1) Well	3.36	0.08
HT-027- D	39-03-84374			Hard Luck Well	3.36	0.08
HT-028- D	39-03-84375			Bull Well	3.36	0.08
HT-030- D	39-03-84377			Reservation Well	3.36	0.08
HT-031- D	39-03-84378			Bumpy Road Well	3.36	0.08
HT-032- D	39-03-84379			Walters #2 Well	3.36	0.08
HT-033- D	39-03-84380			Sunshine Well	3.36	0.08
HT-034- D	39-03-84381			Anderson Well	3.36	0.15
HT-037- D	39-03-84384			Walters Tank	1.12	0.44
HT-038- D	39-03-84385			Lute Hart Tank	2.24	3.20
HT-039- D	39-03-84386			Sinkhole Tank #1	2.24	4.09
HT-040- D	39-03-84387			Chimney Tank	2.24	1.13
HT-041- D	39-03-84388			Courthouse Tank	0.78	0.26
HT-042- D	39-03-84389			Boyd Reid Tank	2.24	1.70
HT-043- D	39-03-84390			Prosperity Tank	2.24	0.98
HT-044- D	39-03-84391			66 Tank #1	1.12	0.50
HT-045- D	39-03-84392			66 Tank #2	1.12	0.60
HT-063- D	39-03-84411			Crossroads Tank	3.36	3.64
HT-064- D	39-03-84412			Wagon Box Tank	3.36	11.07
HT-093- D				Exploratory Oil Well	3.00	
HT-095- D				Unnamed tank	1.92	1.92
HT-097- D				Unnamed tank	2.24	2.24
HT-098- D				Unnamed tank	4.16	4.16
HT-100- D				Unnamed tank	1.40	1.40
HT-101- D				Unnamed tank	0.60	0.60
HT-102- D				Unnamed tank	1.12	1.12
HT-103- D				Unnamed tank	2.60	2.60
HT-005- DS	39-03-84305	39-03-86634		Babbitt Tank #1	4.60	4.60
HT-050- DS	39-03-84397	39-03-86550		Big Anderson Tank	61.04	61.04
HT-017- DU	39-03-84364		39-03-90771	Dry (Grass Flat) Lake	0.92	
HT-035- O	39-03-84382			Abstract deleted-- no longer associated with ranch		
HT-047- O	39-03-84394			Sunshine Tank	0.67	2.90
HT-066- O		39-03-86637		Abstract deleted-- no longer associated with ranch		
HT-002- S	39-03-84304	39-03-86553		Charlebois Tank #1	3.36	3.33
HT-003- S	39-03-84304	39-03-86554		Charlebois Tank #2	3.36	3.33
HT-004- S	39-03-84304	39-03-86555		Charlebois Tank #3	1.56	0.88
HT-006- S	39-03-84305	39-03-86635		Babbitt Tank #2	2.13	1.88
HT-009- S	39-03-84306			Gorton Tank #3	2.24	1.36
HT-029- S	39-03-84376	39-03-86633		Oil Well	3.36	0.08
HT-036- S	39-03-84383	39-03-86551		Elliott Tank	12.90	12.90
HT-046- S	39-03-84393	39-03-86631,2		Reservation Tank & Silt Trap	15.29	15.29
HT-048- S	39-03-84395	39-03-86557		Corner Tank	4.66	4.66
HT-049- S	39-03-84396	39-03-86552		Eli Tank	22.23	22.23
HT-051- S	39-03-84398	39-03-86638		Phone Line Tank	12.66	12.66
HT-065- S		39-03-86636		Cement Tank	5.46	5.46
HT-094- S				Unnamed tank	0.24	0.24
HT-096- S				Unnamed tank	3.60	3.60
HT-099- S				Unnamed tank	1.40	1.40
HT-012- U	39-03-84359		39-03-90813	Horse Lake	0.92	

SUMMARY OF WATER RIGHT ABSTRACTS–HOPI HART RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
HT-013- U	39-03-84360		39-03-90797	Als Lake	0.92	
HT-014- U	39-03-84361			Ashurst Lake	0.92	
HT-015- U	39-03-84362		39-03-90831	Ducksnest Lake	0.92	
HT-016- U	39-03-84363			Coconino Dam & Reservoir	0.92	
HT-018- U	39-03-84365		39-03-90769	Perry Lake	0.92	
HT-019- U	39-03-84366		39-03-90811	Indian Lake	0.92	
HT-020- U	39-03-84367		39-03-90798	Pickett Lake	0.92	
HT-021- U	39-03-84368		39-03-90800	Post Lake	0.92	
HT-022 U	39-03-84369		39-03-90818	Deep Lake	0.92	
HT-023- U	39-03-84370		39-03-90801	Potato Lake	0.92	
HT-052- U	39-03-84399		39-03-91106	Johns Tank	0.92	1.64
HT-053- U	39-03-84400		39-03-91126	Little Elk (Redone) Tank	0.92	1.15
HT-054- U	39-03-84401		39-03-91147	Sinkhole Tank #2 (Section 23 Tank)	0.92	1.40
HT-055- U	39-03-84402		39-03-91117	Newman Tank	0.92	0.92
HT-056- U	39-03-84403		39-03-91120	Pine Grove #1 Tank	0.92	0.96
HT-057- U	39-03-84404		39-03-91118	Otteson Tank	0.75	0.59
HT-058- U	39-03-84405		39-03-91125	Railroad Tank	0.92	2.98
HT-059- U	39-03-84406		39-03-91240	Morman Canyon Tank #1	0.92	1.98
HT-060- U	39-03-84407		39-03-91238	Morgan Tank	1.12	0.95
HT-061- U	39-03-84409		Pending	Snag Tank	1.12	1.18
HT-062- U	39-03-84410		39-03-91095	Casner (Corner) Tank	1.38	0.48
HT-067- U			39-03-90802	Ashurst Spring	0.25	
HT-068- U			39-03-90803	Elliott Spring	0.30	
HT-069- U			39-03-90805	Horse Lake #2	0.22	
HT-070- U			39-03-90806	Little Ashurst Lake	0.22	
HT-071- U			39-03-90808	McDermitt Lake	0.15	
HT-072- U			39-03-90809	Long Lake	0.15	
HT-073- U			39-03-90810	Indian Lake	0.15	
HT-074- U			39-03-90819	Dead Horse Lake & Tank	0.15	1.83
HT-075- U			39-03-90822	Antelope Lake	0.22	
HT-076- U			39-03-90824	Boot Lake	0.15	
HT-077- U			39-03-90825	Breezy Lake	0.22	
HT-078- U			39-03-90829	Ducks Lake	0.20	
HT-079- U			39-03-90830	East McDermitt Lake	0.20	
HT-080- U			39-03-90832	Elliott Lake	0.30	
HT-081- U			39-03-90834	Boot Lake Spring	1.23	
HT-082- U			39-03-90837	Morman Spring	0.44	
HT-083- U			39-03-90846	Exploration Well	0.10	
HT-084- U			39-03-91140	Walnut Creek Tank	0.22	1.54
HT-085- U			39-03-91233	Long Lake Tank	0.16	2.30
HT-086- U			39-03-91234	Low Tank	0.22	0.65
HT-087- U			39-03-91247	Potato Lake Tank	0.22	1.64
HT-088- U			39-03-91254	Boot Jr. Tank	0.16	1.61
HT-089- U			39-03-91258	Breezy #2 Tank	0.16	1.16
HT-090- U			39-03-91263	Ashurst Run Tank	0.16	0.81
HT-091- U			39-03-91274	Spur Tank	0.22	0.73
HT-092- U			39-03-91281	Section 25 Tank	0.15	0.79
HT-104- U				Unnamed tank	3.00	3.00
				Total	275.17	235.99

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-001-D	COMBINED WITH HT-010-D &HT-011-D
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-84303
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	CWR(33-)46740

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	------ CFS
Annual Volume of Use:	----- Gal	------ AF
Storage Volume or Reservoir Capacity:	----- Gal	------ AF
Irrigated Acres (if irrigation use):	----- Ac	

Name of Reservoir or Stockpond:

Priority Date:

Comments:

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-002-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86553
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32647, 36-059846
	Filed by SLD:	36-000401, 38-090781(consolidated)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWSW	16	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.33 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #1	
Priority Date:	Dec. 30, 1853	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-003-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86554
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR (33-)32646, 36-059846
	Filed by SLD:	36-000403, 38-090783(consolidated)
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	16	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.33 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #2	
Priority Date:	Dec. 30, 1853	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-004-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84304
	Filed by SLD:	39-03-86555
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32644, 36-059846
	Filed by SLD:	36-000394, 36-101683
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	16	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	508,328 Gal	1.56 AF
Storage Volume or Reservoir Capacity:	—— Gal	0.88 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Charlebois Tank #3	
Priority Date:	Dec. 30, 1853	

Comments:
The SLD also filed 38-090782 which has been withdrawn

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-005-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84305			
	Filed by SLD:	39-03-86634			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32622, 36-059843			
	Filed by SLD:	36-000404, 38-090786			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Ditch POD from Yellow Jacket Canyon:	NWNW		13	20N	11E
Place of Use (if different from POD):					
Tank in:	SWSW		12	20N	11E
	NWNW		13	20N	11E
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		4.60 AF	
Storage Volume or Reservoir Capacity:		---- Gal		4.60 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Babbitt Tank #1				
Priority Date:	Prior to 1884				

Comments:
A short ditch conveys water to the tank.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-006-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84305
	Filed by SLD:	39-03-86635
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32623, 36-059843
	Filed by SLD:	36-000402, 36-101682
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Yellow Jacket Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	12	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	694,063 Gal	2.13 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.88 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Babbitt Tank #2	
Priority Date:	Prior to 1884	

Comments:
The SLD also filed 38-090785 which has been withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-007-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32631, 36-059848			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		22	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		635,409 Gal		1.95 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.65 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Gorton Tank #1				
Priority Date:	Aug. 29, 1896				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32633, 36-059848			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		22	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		—— Gal		1.86 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Gorton Tank #2				
Priority Date:	Aug. 29, 1896				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-009-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84306
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32632, 36-059848
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Yellow Jacket Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	22	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	---- Gal	1.36 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Gorton Tank #3	
Priority Date:	Aug. 29, 1896	

Comments:
Gorton Tank #3 is shown on the aerial photos but not the USGS quad map.
Location of this tank was previously claimed on filings as being on deeded ranch land but was found to located on State lease land.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-010-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84303, 39-03-84307
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32628, CWR(33-)46740, 36-059845
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Anderson Canyon, Wallace Canyon , and an unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Anderson Canyon :	SWNE	1	18N	10E
Wallace Canyon:	SESE	19	19N	12E
Unnamed wash:	SWNE	18	19N	12E
Place of Use (if different from POD):	SWNE	18	19N	12E

Flow Rate:	—— GPM	----- CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	—— Gal	0.78 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Casner Tank #1	
Priority Date:	Jun. 1, 1910	

Comments:

Water from Anderson Canyon is diverted into the Tillman Ditch which flows into Wallace Canyon south of the Hart Ranch (covered by CWR 1542 owned by the Arizona Game & Fish Dept.). Water is diverted from Wallace Canyon into an unnamed ditch which carries water onto the Hart Ranch to Casner Tank #2, which overflows into Casner Tank #1. Both Casner tanks also receive water from an on-site unnamed wash.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-011-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84303, 39-03-84307
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32627, CWR(33-)46740, 36-059845
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Anderson Canyon, Wallace Canyon , and an unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Anderson Canyon :	SWNE	1	18N	10E
Wallace Canyon:	SESE	19	19N	12E
Unnamed wash:	NWSE, SWNE	18	19N	12E
Place of Use (if different from POD):	NWSE, SWNE	18	19N	12E

Flow Rate:	----- GPM	------ CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.90 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Casner Tank #2	
Priority Date:	Jun. 1, 1910	

Comments:

Water from Anderson Canyon is diverted into the Tillman Ditch which flows into Wallace Canyon south of the Hart Ranch (covered by CWR 1542 owned by the Arizona Game & Fish Dept.). Water is diverted from Wallace Canyon into an unnamed ditch which carries water onto the Hart Ranch to Casner Tank #2, which overflows into Casner Tank #1. Both Casner tanks also receive water from an on-site unnamed wash.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-012-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84359			
	Filed by SLD:				
	Filed by USFS:	39-03-90813			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32651			
	Filed by SLD:				
	Filed by USFS:	36-010176			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Horse Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NE, NENW		5	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		---- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Horse Lake (natural lake)				
Priority Date:	1876				

Comments:
This abstract is for the south edge of Horse Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-013-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84360
	Filed by SLD:	
	Filed by USFS:	39-03-90797
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32659
	Filed by SLD:	
	Filed by USFS:	36-023329
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Als Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	10	19N	9E
	SWSW	11	19N	9E
	NWNW	14	19N	9E
	E2NE	15	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Als Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-014-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84361
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32662
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater	
Source of Supply:	Ashurst Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	13	19N	9E
	E2SE	14	19N	9E
	NE, NESE	23	19N	9E
	W2NW, NWSW	24	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Ashurst Lake (natural lake)	
Priority Date:	Jun. 4, 1975	

Comments:
Ashurst Lake is also covered by Arizona Game and Fish Dept. filings 39-03-88132 and CWR 2182 for stock-water and recreation/fish/wildlife purposes, however these filings do not form the basis of this abstract.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-015-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84362			
	Filed by SLD:				
	Filed by USFS:	39-03-90831			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32663			
	Filed by SLD:				
	Filed by USFS:	36-010196			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Ducksnest Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NW, N2SW		36	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		---- Gal		---- AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Ducksnest Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-016-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84363
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32664
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater	
Source of Supply:	Coconino Dam & Reservoir	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	N2NW	25	19N	9E
Place of Use (if different from POD):				
Reservoir:	NW	25	19N	9E
	S2NE	26	19N	9E

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Coconino Dam & Reservoir	
Priority Date:	Jun.4, 1975	

Comments:
This facility is covered by Arizona Game and Fish filings 39-03-88140 and CWR 2183 for stockwater and recreation/fish/wildlife uses, however these filings do not form the basis of this abstract.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-017-DU				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84364			
	Filed by SLD:				
	Filed by USFS:	39-03-90771			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32665			
	Filed by SLD:				
	Filed by USFS:	36-014127			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Dry (Grass Flat) Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2N2NE		5	18N	9E
	S2		32	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	300,000 Gal		0.92 AF		
Storage Volume or Reservoir Capacity:	----- Gal		----- AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Dry (Grass Flat) Lake (natural lake)				
Priority Date:	1878				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-018-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84365
	Filed by SLD:	
	Filed by USFS:	39-03-90769
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32666
	Filed by SLD:	
	Filed by USFS:	36-010197
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Perry Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE	28	19N	9E
	NWNE	33	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Perry Lake (natural lake)	
Priority Date:	1876	

Comments:
This abstract is for that portion of Perry Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-019-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84366
	Filed by SLD:	
	Filed by USFS:	39-03-90811
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32667
	Filed by SLD:	
	Filed by USFS:	36-023354
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Indian Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SW	22	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Indian Lake (natural lake)--see comments	
Priority Date:	1876	

Comments:
There appears to be 2 Indian Lakes in the USFS permit area-- one described by this abstract and another described by abstract HT-073-U. The facility covered by this abstract HT-019-U is labeled Indian Lake Tank on the USGS quad map but is named as only Indian Lake on both the ranch and USFS filings and appears to be a natural lake based on the filings and aerial photo analysis.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-020-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84367
	Filed by SLD:	
	Filed by USFS:	39-03-90798
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32668
	Filed by SLD:	
	Filed by USFS:	36-010161
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Pickett Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2NW	15	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Pickett Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-021-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84368
	Filed by SLD:	
	Filed by USFS:	39-03-90800
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32669
	Filed by SLD:	
	Filed by USFS:	36-010160
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Post Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	15	19N	9E
	N2NE	22	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Post Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-022-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84369
	Filed by SLD:	
	Filed by USFS:	39-03-90818
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32670
	Filed by SLD:	
	Filed by USFS:	36-010162
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Deep Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2NW, N2SW	2	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	----- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Deep Lake (natural lake)	
Priority Date:	1876	

Comments:
This abstract is for that portion of Deep Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-023-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84370
	Filed by SLD:	
	Filed by USFS:	39-03-90801
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32671
	Filed by SLD:	
	Filed by USFS:	36-010163
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Potato Lake	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SW	1	19N	9E
	E2SE	2	19N	9E
	NENE	11	19N	9E
	NWNW	12	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	----- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Potato Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84371			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613879			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Domestic, Stockwater				
Source of Supply:	Groundwater (Hart HQ Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		7	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		15 GPM		----- CFS	
Annual Volume of Use:		------ Gal		5.23 AF	
Storage Volume or Reservoir Capacity:		75,000 Gal		0.23 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jul. 1, 1940				

Comments:
Annual use includes 1.23 af domestic use and 4 af stockwater use.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-025-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84372			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613878			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Courthouse Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		9	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1967				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-026-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84373			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613877			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Walters (#1) Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		24	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Feb. 1, 1967				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-027-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84374			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613876			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Hard Luck Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		29	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1970				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-028-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84375			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613875			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Bull Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		11	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1964				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-029-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84376			
	Filed by SLD:	39-03-86633			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613874			
	Filed by SLD:	55-614342			
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Oil Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		12	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		---- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Mar. 2, 1926				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-030-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84377			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613873			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Reservation Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		7	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		—— CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1950				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-031-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84378			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613872			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Bumpy Road Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		3	19N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		------ CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1955				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-032-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84379			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613871			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Walters #2 Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		23	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		8 GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1940				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-033-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84380			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613868			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (Sunshine Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		13	20N	12.5E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		60 GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		25,000 Gal		0.08 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-034-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84381
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613869
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Groundwater (Anderson Well)	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	20N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	60 GPM	—— CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	50,000 Gal	0.15 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1939	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-035-O: Abstract deleted--no longer associated with Hart Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84382
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32624
	Filed by SLD:	
	Filed by USFS:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	

Name of Reservoir or Stockpond:

Priority Date:

Comments:
Baugess Tank lies on a private tract not acquired from the former Hart Ranch owners.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-036-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84383
	Filed by SLD:	39-03-86551
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32625
	Filed by SLD:	36-001383, 38-091326
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Elliott Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	Lot 3	6	19N	11E
Place of Use (if different from POD):				
Pond:	Lots 3 &4	6	19N	11E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	12.90 AF
Storage Volume or Reservoir Capacity:	----- Gal	12.90 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Elliott Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-065812 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-037-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84384			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32626			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		365,000 Gal		1.12 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.44 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Walters Tank				
Priority Date:	1950				

Comments:
Filing 38-065818 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-038-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84385
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32629
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	7	19N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	----- Gal	3.20 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Lute Hart Tank	
Priority Date:	1925	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-039-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84386			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32630			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2N2NW		31	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.09 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Sinkhole Tank #1				
Priority Date:	1941				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84387			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32634			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		22	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.13 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Chimney Tank				
Priority Date:	1940				

Comments:
Filing 38-065809 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-041-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84388
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32635
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed draw	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	10	19N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	254,164 Gal	0.78 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.26 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Courthouse Tank	
Priority Date:	Prior to 1975	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-042-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84389			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32636			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		10	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		730,000 Gal		2.24 AF	
Storage Volume or Reservoir Capacity:		----- Gal		1.70 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Boyd Reid Tank				
Priority Date:	1936				

Comments:
Filing 38-065808 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84390			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32637			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam:	NWSW		35	20N	12E
Place of Use (if different from POD):					
Pond:	W2SW		35	20N	12E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	730,000 Gal	2.24 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.98 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Prosperity Tank	
Priority Date:	1950	

Comments:
Filing 38-065814 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-044-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84391
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32638
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	9	20N	12E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.50 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	66 Tank #1	
Priority Date:	1940	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-045-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84392			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32639			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		9	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		365,000 Gal		1.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.60 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	66 Tank #2				
Priority Date:	1940				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-046-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84393			
	Filed by SLD:	39-03-86631, 39-03-86632			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32640			
	Filed by SLD:	36-001437,36-001438,38-090787,38-091348(cd)			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Babbitt Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam:	Lot 1		2	20N	11E
Place of Use (if different from POD):					
Pond:	Lots 1 & 8		2	20N	11E
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		15.29 AF	
Storage Volume or Reservoir Capacity:		---- Gal		15.29 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Reservation Tank & Silt Trap				
Priority Date:	Prior to 1884				

Comments:
Filing 38-065815 was also filed by the ranch but was withdrawn.
Filing 38-091348 filed by the SLD has been consolidated with CWR(33-)32640
This abstract covers both the Reservation Tank and Reservation Silt Trap (herein considered 1 system) which were each covered under separate SLD filings. The annual use & capacity amounts are the combined amounts of the two facilities.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-047-O	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84394
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32641 (owned by adjacent landowner)
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNW	14	20N	12.5E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	219,000 Gal	0.67 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.90 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Sunshine Tank	
Priority Date:	1948	

Comments:
Filing 38-065816 was also filed by previous Hart Ranch owners but was withdrawn.
Although this tank is off ranch property, it is being used by the Hart Ranch and was claimed in the above listed adjudication filing filed by previous Hart Ranch owners.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84395			
	Filed by SLD:	39-03-86557			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32642			
	Filed by SLD:	36-001385, 38-090784(consolidated)			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Wallace Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		2	19N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		4.66 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.66 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-065810 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-049-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84396			
	Filed by SLD:	39-03-86552			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32643, 36-059847			
	Filed by SLD:	36-000395			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam:	S2N2SW		8	19N	11E
Place of Use (if different from POD):					
Pond:	S2N2SW,NESWSW		8	19N	11E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		22.23 AF	
Storage Volume or Reservoir Capacity:		----- Gal		22.23 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Eli Tank				
Priority Date:	Prior to 1884				

Comments:
Pond capacity based on information supplied by the SLD.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-050-DS	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84397
	Filed by SLD:	39-03-86550
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32645, 36-059844
	Filed by SLD:	36-000393
	Filed by USFS:	
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Anderson Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				
Dam:	SWSE	2	19N	11E
Place of Use (if different from POD):				
Pond:	SWSE	2	19N	11E
	NWNE	11	19N	11E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	61.04 AF
Storage Volume or Reservoir Capacity:	----- Gal	61.04 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Big Anderson Tank	
Priority Date:	Prior to 1884	

Comments:
Pond capacity based on information supplied by the SLD.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-051-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84398			
	Filed by SLD:	39-03-86638			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32648			
	Filed by SLD:	36-001440, 38-091350(consolidated)			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		36	20N	12E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		12.66 AF	
Storage Volume or Reservoir Capacity:		----- Gal		12.66 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Phone Line Tank				
Priority Date:	Dec. 30, 1853				

Comments:
Filing 38-065813 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-052-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84399
	Filed by SLD:	
	Filed by USFS:	39-03-91106
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32649
	Filed by SLD:	
	Filed by USFS:	38-023558
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENW	30	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.64 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Johns Tank	
Priority Date:	Sep.8, 1952	

Comments:
Filing 38-013923 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-053-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84400			
	Filed by SLD:				
	Filed by USFS:	39-03-91126			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32650			
	Filed by SLD:				
	Filed by USFS:	38-010090			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		13	19N	8E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		—— Gal		1.15 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Little Elk (Redone) Tank				
Priority Date:	Nov.13,1949				

Comments:
The ranch filings name the tank Little Elk while the USFS filings call it Redone

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-054-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84401			
	Filed by SLD:				
	Filed by USFS:	39-03-91147			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32652			
	Filed by SLD:				
	Filed by USFS:	38-074172			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	19N	8E
	SWNW		24	19N	8E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	----- GPM		----- CFS		
Annual Volume of Use:	300,000 Gal		0.92 AF		
Storage Volume or Reservoir Capacity:	----- Gal		1.40 AF		
Irrigated Acres (if irrigation use):	----- Ac				
Name of Reservoir or Stockpond:	Sinkhole Tank #2 (Section 23 Tank)				
Priority Date:	Oct.28, 1949				

Comments:
The ranch filings name the tank Sinkhole Tank #2 while the USFS filings name it Section 23 Tank

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-055-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84402
	Filed by SLD:	
	Filed by USFS:	39-03-91117
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32653
	Filed by SLD:	
	Filed by USFS:	38-023577
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Newman Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	12	19N	8E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.92 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Newman Tank	
Priority Date:	Dec. 31, 1951	

Comments:
Newman Tank appears to be on the border of the USFS permit area associated with the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-056-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84403
	Filed by SLD:	
	Filed by USFS:	39-03-91120
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32654
	Filed by SLD:	
	Filed by USFS:	38-023436
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed draw	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	30	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	---- Gal	0.96 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Pine Grove #1 Tank	
Priority Date:	Sep.10, 1930	

Comments:
Filing 38-013921 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-057-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84404			
	Filed by SLD:				
	Filed by USFS:	39-03-91118			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32655			
	Filed by SLD:				
	Filed by USFS:	38-070235			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		17	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		244,388 Gal		0.75 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.59 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Otteson Tank				
Priority Date:	Jul.23,1931				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-058-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84405			
	Filed by SLD:				
	Filed by USFS:	39-03-91125			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32656			
	Filed by SLD:				
	Filed by USFS:	38-023453			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		18	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		------ CFS	
Annual Volume of Use:		300,000 Gal		0.92 AF	
Storage Volume or Reservoir Capacity:		---- Gal		2.98 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Railroad Tank				
Priority Date:	Jul.18,1930				

Comments:
Filing 38-013922 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-059-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84406
	Filed by SLD:	
	Filed by USFS:	39-03-91240
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32658
	Filed by SLD:	
	Filed by USFS:	38-023568
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	9	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	300,000 Gal	0.92 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.98 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Morman Canyon Tank #1	
Priority Date:	Aug. 26, 1949	

Comments:
Filing 38-013924 was also filed by the ranch but was withdrawn

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-060-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84407
	Filed by SLD:	
	Filed by USFS:	39-03-91238
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)32660
	Filed by SLD:	
	Filed by USFS:	38-010075
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE, NESE	11	19N	10E
	SWNW,NWSW	12	19N	10E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Morgan Tank	
Priority Date:	Jun.9, 1967	

Comments:
Filing 38-013920 was also filed by the ranch but was withdrawn.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-061-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84409
	Filed by SLD:	
	Filed by USFS:	Pending
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34641
	Filed by SLD:	
	Filed by USFS:	38-070237
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	7	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	365,000 Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	1.18 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Snag Tank	
Priority Date:	Nov.30,1974	

Comments:
Needs rehabilitation.
USFS recently filed the adjudication claim and is awaiting assignment of the adjudication filing number.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-062-U	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84410
	Filed by SLD:	
	Filed by USFS:	39-03-91095
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34642
	Filed by SLD:	
	Filed by USFS:	38-070240
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	19	19N	9E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	450,000 Gal	1.38 AF
Storage Volume or Reservoir Capacity:	—— Gal	0.48 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Casner (Corner) Tank	
Priority Date:	Sep.10,1959	

Comments:
Filing 39-03-84410 calls this tank Casner while the other filings list it as Corner Tank.
This tank is not to be confused with other tanks with similar or same names at other locations on the ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-063-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-84411
	Filed by SLD:	
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34643, 38-065811
	Filed by SLD:	
	Filed by USFS:	
Type of Uses:	Stockpond	
Source of Supply:	Wagon Box Draw	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	25	20N	11E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	1,095,000 Gal	3.36 AF
Storage Volume or Reservoir Capacity:	----- Gal	3.64 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Crossroads Tank	
Priority Date:	Prior to 1975	
Comments:		

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-064-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84412			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)34644, 38-065817			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Wagon Box Draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		33	20N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		----- CFS	
Annual Volume of Use:		1,095,000 Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		----- Gal		11.07 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Wagon Box Tank				
Priority Date:	Prior to 1975				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-065-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: 39-03-86636 Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: 36-000396, 38-090819 Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	22	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	5.46 AF		
Storage Volume or Reservoir Capacity:	---- Gal	5.46 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Cement Tank			
Priority Date:	Prior to 1884			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-066-O	Abstract deleted--no longer associated with Hart Ranch
Applicable Adjudication Filings:	Filed by ranch:	
	Filed by SLD:	39-03-86637
	Filed by USFS:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	36-001439, 38-091349
	Filed by USFS:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	

Name of Reservoir or Stockpond:

Priority Date:

Comments:
This State claim is for a water use on an adjacent tract of State lease land not associated with the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-067-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90802			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010309			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Ashurst Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	18	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.25 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:		
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-068-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90803			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023347			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Elliott Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSW	22	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.30 AF		
Storage Volume or Reservoir Capacity:	----- Gal	----- AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-069-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90805			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023352			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Horse Lake #2			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2W2SE, E2E2SW	4	19N	9E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.22 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Horse Lake #2 (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-070-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-90806			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	36-023359			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Little Ashurst Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		14	19N	9E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.22 AF	
Storage Volume or Reservoir Capacity:		----- Gal		----- AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Little Ashurst Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-071-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90808			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010165			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	McDermitt Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NE, N2SE	35	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	McDermitt Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-072-U
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90809
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010205
Type of Uses:	Stockwater, Wildlife
Source of Supply:	Long Lake

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2, SWNW	28	19N	10E
	N2,N2S2	29	19N	10E
	NWNE	33	19N	10E

Place of Use (if different from POD):	Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	---- Gal	0.15 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Long Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-073-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90810			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010158			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Indian Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2SW, W2SE	19	19N	10E
	NWNE	30	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Indian Lake (natural lake)			
Priority Date:	1876			

Comments:
There appears to be 2 Indian Lakes in the USFS permit area-- one described by this abstract and another described by abstract HT-019-U.
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-074-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90819			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010195, 38-023608			
Type of Uses:	Stockwater, Stockpond, Wildlife			
Source of Supply:	Dead Horse Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2SE	32	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.15 AF
Storage Volume or Reservoir Capacity:	—— Gal	1.83 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Dead Horse Lake and Tank	
Priority Date:	1876	

Comments:
Analysis of aerial photos and maps show this facility to be a natural lake with a dugout stockpond area inside the lake to store water as the lake dries out. Because the lake is small and the stockpond is a significant portion of the lake, the facility is claimed both as a natural lake and stockpond.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-075-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS: 39-03-90822			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS: 36-010209			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Antelope Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	15	19N	9E
	SESE	16	19N	9E
	NENE	21	19N	9E
	NWNW	22	19N	9E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.22 AF
Storage Volume or Reservoir Capacity:	—— Gal	—— AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Antelope Lake (natural lake)	
Priority Date:	1876	

Comments:
The lake is larger on the aerial photos than on the USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-076-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90824			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-010164			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Boot Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SE	33	19N	10E
	NW, N2SW	34	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Boot Lake (natural lake)			
Priority Date:	1876			

Comments:
This abstract is for that portion of Boot Lake lying within the USFS permit area for the Hart Ranch.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-077-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90825			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-014124			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Breezy Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE, SENE	25	19N	9E
	SW	30	19N	10E
	N2N2NW	31	19N	10E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	0.22 AF
Storage Volume or Reservoir Capacity:	---- Gal	---- AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Breezy Lake (natural lake)	
Priority Date:	1876	
Comments:		

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-078-U			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	39-03-90829		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
	Filed by USFS:	36-023344		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Duck Lake			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	27	19N	10E
	W2NE	34	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.20 AF		
Storage Volume or Reservoir Capacity:	---- Gal	---- AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Duck Lake (natural lake)			
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-079-U				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
	Filed by USFS:	39-03-90830			
Applicable Pre-adjudication Filings:	Filed by ranch:				
	Filed by SLD:				
	Filed by USFS:	36-023345			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	East McDermitt Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2S2SW		25	19N	10E
	NW		36	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		—— Gal		—— AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	East McDermitt Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-080-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-90832			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	36-014126, 36-023346			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Elliott Lake				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE, NWSE		21	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	0.30 AF		
Storage Volume or Reservoir Capacity:		—— Gal	—— AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Elliott Lake (natural lake)				
Priority Date:	1876				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-081-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-90834			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	CWR 1906			
Type of Uses:	Stockwater				
Source of Supply:	Boot Lake Spring				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		27	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		----- CFS	
Annual Volume of Use:		400,000 Gal		1.23 AF	
Storage Volume or Reservoir Capacity:		----- Gal		—— AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Feb.20,1952				
Comments:					

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-082-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90837			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 36-023368			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Morman Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	3	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.44 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1876			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-083-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-90846			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockwater			
Source of Supply:	Groundwater (Exploration Well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	14	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	35 or less GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.10 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1977			

Comments:
Flow rate estimated based on similar wells on the Hart Ranch.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-084-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91140			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070152, 38-023591			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Walnut Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	29	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	---- Gal	1.54 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Walnut Creek Tank			
Priority Date:	Aug. 20, 1972			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-085-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91233			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010059			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	29	19N	10E

Place of Use (if different from POD): Same as POD

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.16 AF
Storage Volume or Reservoir Capacity:	—— Gal	2.30 AF
Irrigated Acres (if irrigation use):	—— Ac	

Name of Reservoir or Stockpond: Long Lake Tank

Priority Date: Oct. 25, 1959

Comments:
This tank is inundated by Long Lake during high lake levels.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-086-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91234			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023400			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	36	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.65 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Low Tank			
Priority Date:	Sep. 20, 1966			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-087-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91247			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070192			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	11	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.22 AF		
Storage Volume or Reservoir Capacity:	—— Gal	1.64 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Potato Lake Tank			
Priority Date:	Nov. 29, 1945			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-088-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91254			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070120			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	33	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	---- Gal	1.61 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Boot Jr. Tank			
Priority Date:	Dec. 30, 1969			

Comments:
This tank is inundated by Boot Lake during high lake levels.
The location of this tank as shown on the USGS quad map is out of date--aerial photos show it slightly south of the quad map location.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-089-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91258			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010112			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENWNW	31	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	—— Gal	1.16 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Breezy #2 Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-090-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91263			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010094			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Ashurst Run			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	25	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.81 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Ashurst Run Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-091-U				
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	39-03-91274			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:	38-074202			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Ashurst Run				
Location of :	Qtr Qtr	Sec	T	R	
Points of Diversion (POD):	SWNW	35	19N	9E	
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	0.22 AF		
Storage Volume or Reservoir Capacity:		—— Gal	0.73 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Spur Tank				
Priority Date:	Sep. 20, 1966				
Comments:					

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-092-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91281			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023507			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Ashurst Run			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNE	25	19N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.15 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.79 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Section 25 Tank			
Priority Date:	Sep.7, 1959			
Comments:				

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-093-D
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:
Type of Uses:	Stockwater
Source of Supply:	Groundwater (Exploratory Oil Well)

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	24	19N	10E

Place of Use (if different from POD): Same as POD

Flow Rate:	35 or less GPM	----- CFS
Annual Volume of Use:	----- Gal	3.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Unknown	

Comments:
Flow rate and annual use estimated from similar wells on the Hart Ranch.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-094-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	36	20N	12E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.24 AF
Storage Volume or Reservoir Capacity:	—— Gal	0.24 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1968	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-095-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	13	20N	12E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	1.92 AF		
Storage Volume or Reservoir Capacity:	---- Gal	1.92 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-096-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESE	14	19N	11E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	---- GPM	---- CFS
Annual Volume of Use:	---- Gal	3.60 AF
Storage Volume or Reservoir Capacity:	---- Gal	3.60 AF
Irrigated Acres (if irrigation use):	---- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1968	

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-097-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	5	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	------ CFS		
Annual Volume of Use:	—— Gal	2.24 AF		
Storage Volume or Reservoir Capacity:	—— Gal	2.24 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-098-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	19	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	4.16 AF		
Storage Volume or Reservoir Capacity:	—— Gal	4.16 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-099-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESWSW	8	19N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	1.40 AF		
Storage Volume or Reservoir Capacity:	—— Gal	1.40 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:

Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.

Priority date taken from date of USGS quad map.

This tank does not appear to have been included as part of nearby Eli Tank (HT-49) based on conversations with the SLD. Analysis of aerial photos and maps verify this tank to be separate from Eli Tank.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-100-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	24	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	1.40 AF		
Storage Volume or Reservoir Capacity:	—— Gal	1.40 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-101-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENW	25	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.60 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.60 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1968			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI HART RANCH

WATER RIGHT #:	HT-102-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	4	18N	9E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	1.12 AF		
Storage Volume or Reservoir Capacity:	---- Gal	1.12 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1965			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-103-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	12	20N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	2.60 AF		
Storage Volume or Reservoir Capacity:	----- Gal	2.60 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1980			

Comments:
Stockpond storage capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT–HOPI HART RANCH

WATER RIGHT #:	HT-104-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2NWNW	31	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	3.00 AF		
Storage Volume or Reservoir Capacity:	—— Gal	3.00 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed tank			
Priority Date:	Prior to 1974			

Comments:
Stockpond storage capacity estimated from aerial photos and USGS quad maps, with annual use assumed equal to pond capacity.
Priority date taken from date of revised USGS quad map.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI DRYE RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
DR-001- D	39-03-80467			Twin Tank #1	1.00	0.30
DR-002- D	39-03-80467			Twin Tank #2	1.00	0.58
DR-003- D	39-03-80468			Perry Tank	1.33	0.84
DR-004- D	39-03-80469			Cedar Dam	2.65	5.32
DR-005- S	39-03-80469	39-03-86629		Cement Dam	1.33	0.72
DR-006- S	39-03-80470	39-03-86630		Lower Cattleguard Tank	1.43	2.13
DR-007- SU	39-03-80471	39-03-86627	39-03-91271	Corner Tank	2.97	2.70
DR-008- U	39-03-84408		39-03-91256	Boundary (Yellow Jacket) Tank	3.36	13.96
DR-009- S		39-03-86626		Upper Cattleguard Tank	0.30	0.20
DR-010- S		39-03-86628		Well	0.22	
DR-011- U			39-03-91235	Malo Tank	0.25	0.65
DR-012- U			39-03-91239	Morman Tank	0.05	0.47
DR-013- U			39-03-91243	Padre Tank	0.05	0.42
DR-014- U			39-03-91246	Pine Tank	0.05	14.70
DR-015- U			39-03-91252	Billy Back Tank	0.05	3.78
DR-016- U			39-03-91259	Buzzard Tank	0.05	0.50
DR-017- U			39-03-91260	Cabin (Draw) Tank	0.05	0.50
DR-018- U			39-03-91262	Cluster Tank	0.05	0.37
DR-019- U			39-03-91269	Squaw Tank	0.05	2.68
DR-020- U			39-03-91298	Browse Tank	0.71	0.80
DR-021- U			39-03-91301	Rim Tank	0.16	0.40
DR-022- D				Drye HQ well	3.00	
DR-023- U				Billy Back Spring (#2)(Portion)	0.22	
DR-024- D				Unnamed tank	1.00	1.00
				Total	21.33	53.02

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch

U = U.S. Forest Service permit land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease & USFS permit lands

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI DRYE RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication Claim			Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
	Ranch	SLD	USFS			
DR-001- D	39-03-80467			Twin Tank #1	1.00	0.30
DR-002- D	39-03-80467			Twin Tank #2	1.00	0.58
DR-003- D	39-03-80468			Perry Tank	1.33	0.84
DR-004- D	39-03-80469			Cedar Dam	2.65	5.32
DR-022- D				Drye HQ well	3.00	
DR-024- D				Unnamed tank	1.00	1.00
DR-005- S	39-03-80469	39-03-86629		Cement Dam	1.33	0.72
DR-006- S	39-03-80470	39-03-86630		Lower Cattleguard Tank	1.43	2.13
DR-009- S		39-03-86626		Upper Cattleguard Tank	0.30	0.20
DR-010- S		39-03-86628		Well	0.22	
DR-007- SU	39-03-80471	39-03-86627	39-03-91271	Corner Tank	2.97	2.70
DR-008- U	39-03-84408		39-03-91256	Boundary (Yellow Jacket) Tank	3.36	13.96
DR-011- U			39-03-91235	Malo Tank	0.25	0.65
DR-012- U			39-03-91239	Morman Tank	0.05	0.47
DR-013- U			39-03-91243	Padre Tank	0.05	0.42
DR-014- U			39-03-91246	Pine Tank	0.05	14.70
DR-015- U			39-03-91252	Billy Back Tank	0.05	3.78
DR-016- U			39-03-91259	Buzzard Tank	0.05	0.50
DR-017- U			39-03-91260	Cabin (Draw) Tank	0.05	0.50
DR-018- U			39-03-91262	Cluster Tank	0.05	0.37
DR-019- U			39-03-91269	Squaw Tank	0.05	2.68
DR-020- U			39-03-91298	Browse Tank	0.71	0.80
DR-021- U			39-03-91301	Rim Tank	0.16	0.40
DR-023- U				Billy Back Spring (#2)(Portion)	0.22	
				Total	21.33	53.02

Note: The last letter of the water right # is a land ownership code for the Place of Use:
D=deeded Hopi ranch land, S= State lease land associated with Hopi ranch
U = U.S. Forest Service permit land associated with Hopi ranch
O=other (off deeded Hopi ranch and associated State lease & USFS permit lands
2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80467			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066689			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM	—— CFS		
Annual Volume of Use:		—— Gal	1.00 AF		
Storage Volume or Reservoir Capacity:		—— Gal	0.30 AF		
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Twin Tank #1				
Priority Date:	1938				

Comments:
Filing 39-03-80467 appears to cover both Twin Tank #1 (DR-001-D) and Twin Tank #2 (DR-002-D)

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-002-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80467			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066690			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		13	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		—— Gal		0.58 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Twin Tank #2				
Priority Date:	1938				

Comments:
Filing 39-03-80467 appears to cover both Twin Tank #1 (DR-001-D) and Twin Tank #2 (DR-002-D)

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-003-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80468			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066692			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		18	19N	11E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		---- GPM		---- CFS	
Annual Volume of Use:		---- Gal		1.33 AF	
Storage Volume or Reservoir Capacity:		---- Gal		0.84 AF	
Irrigated Acres (if irrigation use):		---- Ac			
Name of Reservoir or Stockpond:	Perry Tank				
Priority Date:	Prior to 1926				
Comments:					

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-004-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80469			
	Filed by SLD:				
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066691			
	Filed by SLD:				
	Filed by USFS:				
Type of Uses:	Stockpond				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		25	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		2.65 AF	
Storage Volume or Reservoir Capacity:		—— Gal		5.32 AF	
Irrigated Acres (if irrigation use);		—— Ac			
Name of Reservoir or Stockpond:	Cedar Dam				
Priority Date:	1956				
Comments:					

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-005-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80469			
	Filed by SLD:	39-03-86629			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066685			
	Filed by SLD:	36-001435, 38-090712			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		36	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	—— GPM	—— CFS			
Annual Volume of Use:	—— Gal	1.33 AF			
Storage Volume or Reservoir Capacity:	—— Gal	0.72 AF			
Irrigated Acres (if irrigation use):	—— Ac				
Name of Reservoir or Stockpond:	Cement Dam				
Priority Date:	Dec. 30, 1853				
Comments:					

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80470			
	Filed by SLD:	39-03-86630			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066688			
	Filed by SLD:	36-001436, 38-090715			
	Filed by USFS:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed draw				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		24	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		1.43 AF	
Storage Volume or Reservoir Capacity:		—— Gal		2.13 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Lower Cattleguard Tank				
Priority Date:	Prior to 1884				

Comments:
See DR-009-S for adjacent Upper Cattleguard Tank.
The SLD has separate filings for each of the two tanks, while the ranch has only one set of filings.
Based on the pond dimensions listed in the ranch filings, they appear to apply to Lower Cattleguard Tank.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-007-SU				
Applicable Adjudication Filings:	Filed by ranch:	39-03-80471			
	Filed by SLD:	39-03-86627			
	Filed by USFS:	39-03-91271			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-066694			
	Filed by SLD:	36-001434, 38-090713			
	Filed by USFS:	38-023601			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		26	20N	10E
	SENE		27	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		2.97 AF	
Storage Volume or Reservoir Capacity:		—— Gal		2.70 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Prior to 1884				

Comments:
Pond is located on both State leased land and U.S. Forest Service permit land.

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-008-U				
Applicable Adjudication Filings:	Filed by ranch:	39-03-84408			
	Filed by SLD:				
	Filed by USFS:	39-03-91256			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR (33-) 32661			
	Filed by SLD:				
	Filed by USFS:	38-070239			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Yellow Jacket Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		3	19N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		—— GPM		—— CFS	
Annual Volume of Use:		—— Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		—— Gal		13.96 AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:	Boundary Tank (Yellow Jacket Tank)				
Priority Date:	Sep. 30, 1946				

Comments:
Aerial photos show two integrated ponds with the upstream pond also serving to trap sediment.
The abstract storage volume is the combined capacity of the two ponds.
The ranch filings 39-03-84408 and CWR 32661 were originally filed by Babbitt Ranches Inc. since the pond location was once associated with the Hart Ranch USFS permit area.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-009-S			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: 39-03-86626 Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: 36-001433, 38-090714 Filed by USFS:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE	24	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.30 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.20 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Upper Cattleguard Tank			
Priority Date:	Prior to 1884			

Comments:
See DR-006-S for adjacent Lower Cattleguard Tank

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-010-S				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86628			
	Filed by USFS:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-630112			
	Filed by SLD:	55-614341			
	Filed by USFS:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Groundwater (well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		26	20N	10E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		6 GPM		—— CFS	
Annual Volume of Use:		—— Gal		0.22 AF	
Storage Volume or Reservoir Capacity:		—— Gal		—— AF	
Irrigated Acres (if irrigation use):		—— Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Dec. 20, 1932				

Comments:
The adjudication filing indicates the well feeds a steel tank and drinker.

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-011-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91235			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023406			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	10	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.25 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.65 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Malo Tank			
Priority Date:	Jun.30, 1960			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-012-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91239			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023567			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	20	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.47 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Morman Tank			
Priority Date:	Aug.29, 1961			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-013-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91243			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023427			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	31	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	---- Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.42 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Padre Tank			
Priority Date:	Sep. 10, 1961			

Comments:
Correspondence with USFS indicates the tank capacity has increased to .42 af (per 39 filing) from .18 af (per 38 filing) due to cleaning operation.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-014-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91246			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023435			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Yellow Jacket Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2NE	8	19N	10E
Place of Use (if different from POD):	NE	8	19N	10E

Flow Rate:	—— GPM	—— CFS
Annual Volume of Use:	—— Gal	0.05 AF
Storage Volume or Reservoir Capacity:	—— Gal	14.70 AF
Irrigated Acres (if irrigation use):	—— Ac	
Name of Reservoir or Stockpond:	Pine Tank	
Priority Date:	Dec. 31, 1953	
Comments:		

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-015-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91252			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070116			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Billy Back Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	9	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	—— Gal	3.78 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Billy Back Tank			
Priority Date:	Oct. 31, 1951			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-016-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91259			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070103			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	27	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.50 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Buzzard Tank			
Priority Date:	Aug. 24, 1961			
Comments:				

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-017-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91260			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-010117			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Cabin Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	16	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.50 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Cabin (Draw) Tank			
Priority Date:	Jan. 8, 1953			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-018-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91262			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-070092			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unamed draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	29	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.37 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Cluster Tank			
Priority Date:	Aug. 29, 1961			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-019-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91269			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 38-023501			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Cabin Draw			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	18	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	0.05 AF		
Storage Volume or Reservoir Capacity:	—— Gal	2.68 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Squaw Tank			
Priority Date:	Sep. 7, 1959			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-020-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91298			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: CWR (33-) 83357			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	6	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	---- GPM	---- CFS		
Annual Volume of Use:	231,914 Gal	0.71 AF		
Storage Volume or Reservoir Capacity:	---- Gal	0.80 AF		
Irrigated Acres (if irrigation use):	---- Ac			
Name of Reservoir or Stockpond:	Browse Tank			
Priority Date:	July, 1978			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-021-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: 39-03-91301			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS: CWR (33-) 83358			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSW	9	19N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	50,835 Gal	0.16 AF		
Storage Volume or Reservoir Capacity:	—— Gal	0.40 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Rim Tank			
Priority Date:	July 1978			
Comments:				

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-022-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: 55-630111 Filed by SLD: Filed by USFS:			
Type of Uses:	Domestic,Stockwater			
Source of Supply:	Groundwater (Drye HQ well)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NE	1	20N	10E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	6 GPM	—— CFS		
Annual Volume of Use:	—— Gal	3.00 AF		
Storage Volume or Reservoir Capacity:	—— Gal	—— AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:				
Priority Date:	1946			

Comments:
No annual amount given in filing. Annual amount herein is estimated based on amounts given for similar wells on this ranch and the adjacent Hart Ranch.

WATER RIGHT ABSTRACT--HOPI DRYE RANCH

WATER RIGHT #:	DR-023-U			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: CWR 1853 (portion of) Filed by SLD: Filed by USFS:			
Type of Uses:	Stockwater			
Source of Supply:	Billy Back Spring (#2)			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SENE	20	19N	10E
Place of Use (if different from POD):	NWNW	21	19N	10E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	73,000 Gal	0.22 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	May 3, 1943	

Comments:

CWR 1853 is in the name of A.C. Drye and covers water use both on non-ranch privately owned land as well as Forest Service permit land associated with the Drye Ranch. Only that portion pertaining to the use on permit land is included in this abstract, with the annual amount given herein based on a proportion of the total annual use for stockwater.

WATER RIGHT ABSTRACT–HOPI DRYE RANCH

WATER RIGHT #:	DR-024-D			
Applicable Adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Applicable Pre-adjudication Filings:	Filed by ranch: Filed by SLD: Filed by USFS:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESW	18	19N	11E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	—— GPM	—— CFS		
Annual Volume of Use:	—— Gal	1.00 AF		
Storage Volume or Reservoir Capacity:	—— Gal	1.00 AF		
Irrigated Acres (if irrigation use):	—— Ac			
Name of Reservoir or Stockpond:	Unnamed			
Priority Date:	Unknown			

Comments:
No filings were found for this tank which lies downstream of Perry Tank (DR-003-D).
Annual and storage amounts were estimated from aerial photos.

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY WATER RIGHT #)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-122- DS	39-03-89390		Jacks Canyon Dam (Mario's Tank)	123.00	123.00
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
			Total	727.213	1034.933

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease lands)

2 letters=on both types of land indicated by the each of the letters

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-001- D	39-03-85497		David's Tank	1.00	0.74
CC-002- D	39-03-85498		Bob's Tank	Combined with CC-135-D	
CC-008- D	39-03-87915		Jacks Canyon instream use	4.10	
CC-009- D	39-03-87916		Pump Ranch Tank	3.27	3.27
CC-011- D	39-03-87918		Dick Hart Tank	33.00	15.00
CC-013- D	39-03-87920		Upper Moonlight Tank	3.51	3.51
CC-015- D	39-03-87922		Middle Eckles Tank	0.21	0.21
CC-016- D	39-03-87923		King Tank	3.70	3.70
CC-017- D	39-03-87924		Haight-Lovelady Tank	0.30	0.30
CC-019- D	39-03-87926		Lower Eckles Tank	0.37	0.37
CC-020- D	39-03-87927		Upper Eckles Tank	0.39	0.39
CC-022- D	39-03-87929		Horse (Horse Pasture) Tank	0.83	0.83
CC-024- D	39-03-87931		Cedar Tree Tank	0.10	0.10
CC-027- D	39-03-87934		Rincon Tank	5.00	72.73
CC-036- D	39-03-87943		Middle Moonlight Tank	10.39	10.39
CC-038- D	39-03-87945		Tin Ranch Well & Tank	1.50	0.13
CC-040- D	39-03-87947		Well #12 & Tank	1.91	0.50
CC-042- D	39-03-87949		East Sunset Spring	3.23	
CC-043- D	39-03-89313		Model T Tank Section 1	3.36	1.19
CC-044- D	39-03-89314		Model T Tank Section 2	8.62	8.62
CC-047- D	39-03-89317		Well #11/Windmill Well #11 Tank	1.50	0.476
CC-049- D	39-03-89319		Hartman (House) Well & Tank	2.00	0.075
CC-050- D	39-03-89320		Loyd's Tank	1.00	3.38
CC-054- D	39-03-89324		Immanuel's Tank	1.00	0.59
CC-056- D	39-03-89326		Roadway Tank #1	2.67	14.61
CC-057- D	39-03-89327		Karen's Tank	1.68	0.40
CC-059- D	39-03-89329		Old Hobo Tank	5.04	10.06
CC-060- D	39-03-89330		Fisher Tank	3.36	4.01
CC-065- D	39-03-89334		Mediator Tank	0.13	0.04
CC-066- D	39-03-89335		Pennsylvania Tank	0.19	0.06
CC-068- D	39-03-89337		Daniel's Tank	0.14	0.05
CC-069- D	39-03-89338		Hoskin's Tank	0.20	0.07
CC-070- D	39-03-89339		Mathew's Tank	0.09	0.03
CC-071- D	39-03-89340		Omega Tank	0.06	0.02
CC-072- D	39-03-89341		Waterhole #1	0.48	0.16
CC-073- D	39-03-89342		Waterhole # 2	1.00	0.56
CC-074- D	39-03-89343		Mark's Tank	0.16	0.05
CC-075- D	39-03-89344		Luke's Tank	0.09	0.03
CC-076- D	39-03-89345		Branch Tank	0.12	0.04
CC-080- D	39-03-89349		Corner Tank	3.92	4.10
CC-081- D	39-03-89350		Well #7 & Windmill Well #7 Tank	1.50	0.235
CC-088- D	39-03-89357		Well #1 & Windmill Well #1 Tank	1.50	0.74
CC-089- D	39-03-89358		Indian Tank	1.00	27.07
CC-090- D	39-03-89359		Squaw Tank	1.00	17.25
CC-096- D	39-03-89365		Windmill Well #1 Tank (Soil)	0.965	0.965
CC-099- D	39-03-89368		North Tank	5.60	11.27
CC-103- D	39-03-89372		Little John's Tank	3.92	0.29
CC-104- D	39-03-89373		Phil's Tank	1.00	0.95
CC-106- D	39-03-89375		LTMV Tank	1.00	2.14
CC-109- D	39-03-89377		Porcupine (Red Hill) Tank	10.41	10.41
CC-110- D	39-03-89378		(West) Sunset Well & Tank	3.59	3.59
CC-111- D	39-03-89379		Sunset Tank	1.96	1.35
CC-114- D	39-03-89382		Lynn's Tank	1.12	2.37
CC-115- D	39-03-89383		Joyanna's Tank	1.00	1.35
CC-116- D	39-03-89384		Robin's Tank	1.68	2.46
CC-118- D	39-03-89386		Jacks Canyon instream use	0.399	0.399
CC-119- D	39-03-89387		Lower Red Tank	3.64	12.29
CC-120- D	39-03-89388		Dirt Dike	3.63	3.63
CC-129- D	39-03-89397	39-03-86379	Echols Tank	3.92	4.40

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-130- D	39-03-89398		Caliche Tank	3.92	7.23
CC-135- D	39-03-89403		Bob's Tank	0.99	0.33
CC-144- D			Unnamed tank	0.10	0.10
CC-145- D			Unnamed tank	0.60	0.60
CC-146- D			Unnamed tank	0.30	0.30
CC-147- D			Unnamed tank	3.20	3.20
CC-148- D			Unnamed tank	2.00	2.00
CC-149- D			Unnamed tank	0.30	0.30
CC-150- D			Unnamed tank	0.07	0.07
CC-004- DS	39-03-87911		Hotcake Well & Tank	1.91	0.29
CC-012- DS	39-03-87919		Moonlight Bay Reservoir	99.00	173.00
CC-014- DS	39-03-87921		Simms Tank & Silt Trap	15.36	15.36
CC-023- DS	39-03-87930		Simms Silt Trap	Combined with CC-014-DS	
CC-122- DS	39-03-89390		Jacks Canyon Dam (Mario's Tank)	123.00	123.00
CC-039- O	39-03-87946		Boundary Well & Tank	1.60	0.10
CC-083- O	39-03-89352		Abstract deleted--not associated with Clear Creek Ranch		
CC-085- O	39-03-89354		Abstract deleted--not associated with Clear Creek Ranch		
CC-137- O	39-03-89405		Abstract deleted--not associated with Clear Creek Ranch		
CC-140- O		39-03-86463	Upper King Tank (King Tank)	6.30	13.40
CC-003- S	39-03-85499		Bruce's Tank	Combined with CC-108-S	
CC-005- S	39-03-87912	39-03-86474	Rock Station Well & Tank	2.06	1.00
CC-006- S	39-03-87913	39-03-86385	Unnamed wash instream use	0.85	
CC-007- S	39-03-87914	39-03-86388	Unnamed wash instream use	1.53	
CC-010- S	39-03-87917	39-03-86473	Jacks Canyon instream use	4.00	
CC-018- S	39-03-87925	39-03-86486	Lower Algerita Tank	9.55	9.55
CC-021- S	39-03-87928	39-03-86282	Elk Tank	4.31	4.31
CC-025- S	39-03-87932	39-03-86386	Autry Silt Trap	Combined with CC-031-S	
CC-026- S	39-03-87933	39-03-86373	Chauncey Tank	6.05	15.00
CC-028- S	39-03-87935	39-03-86384	Sloppy Tank	3.44	3.44
CC-029- S	39-03-87936	39-03-86487	Upper Algerita Tank	2.06	2.06
CC-030- S	39-03-87937	39-03-86375	Fanning Tank	9.89	9.89
CC-031- S	39-03-87938	39-03-86387	Autry Tank and Silt Trap	19.30	19.30
CC-032- S	39-03-87939	39-03-86283	Hidden Tank	1.10	1.10
CC-033- S	39-03-87940	39-03-86380	Lower Gravel Pit Tank	15.00	15.00
CC-034- S	39-03-87941	39-03-86286	Birch Tank	2.81	2.81
CC-035- S	39-03-87942	39-03-86381	Upper Gravel Pit Tank	9.85	9.85
CC-037- S	39-03-87944		Winslow Well and Tank	1.50	0.10
CC-041- S	39-03-87948	39-03-86289	Pump Ranch Pump & Tank	3.84	0.04
CC-045- S	39-03-89315	39-03-86466	(Old) Coon Tank	5.68	13.69
CC-046- S	39-03-89316	39-03-86465	New Coon Tank	6.16	14.67
CC-048- S	39-03-89318	39-03-91635	Waterhole #3 Tank	0.97	0.32
CC-051- S	39-03-89321	39-03-86467	Ray's Tank	4.48	5.10
CC-052- S	39-03-89322	39-03-86468	Rowlan (Rawlin's) Tank	19.00	19.00
CC-053- S	39-03-89323	39-03-86469	Prairie Dog Tank	11.50	14.31
CC-055- S	39-03-89325	39-03-86470	Roadway Tank #2	1.20	3.38
CC-058- S	39-03-89328	39-03-86471	Highway (Clay's) Tank	3.92	5.99
CC-061- S	39-03-89331	39-03-86472	Highway Tanks #1 & #2 (Clay's Tank)	16.88	16.88
CC-062- S	39-03-89331		Highway Tank #2	Combined with CC-061-S	
CC-063- S	39-03-89332	39-03-86475	Model A Tank	4.48	12.05
CC-064- S	39-03-89333		Well #8 & Windmill Well #8 Tank	1.50	0.10
CC-067- S	39-03-89336		Alpha Tank	0.11	0.04
CC-077- S	39-03-89346	39-03-86480	Bar Pitt Tank	9.90	11.59
CC-078- S	39-03-89347	39-03-86481	Headquarters (HQ) Tank	3.36	10.00
CC-079- S	39-03-89348	39-03-86485	Highway Well & Tank	0.74	0.074
CC-084- S	39-03-89353	39-03-86464	New Hobo Tank	6.72	15.00
CC-086- S	39-03-89355		Tucker Tank (Ditch)	1.00	2.32
CC-087- S	39-03-89356		North Corner Tank	3.92	5.60
CC-091- S	39-03-89360	39-03-86565	Tucker Tank West	5.60	12.60
CC-092- S	39-03-89361	39-03-86566	Tucker Tank East	5.60	14.73

SUMMARY OF WATER RIGHT ABSTRACTS--HOPI CLEAR CREEK RANCH (SORTED BY POU OWNERSHIP)

Water Right #	Applicable Adjudication. Claim Ranch	SLD	Facility Name or Description	Annual Use Vol AF	Storage Vol. AF
CC-093- S	39-03-89362		Tucker Tank East Overflow	0.95	0.95
CC-094- S	39-03-89363		Tucker Tank Middle	0.293	0.293
CC-095- S	39-03-89364		Tucker Tank West Overflow	0.077	0.077
CC-097- S	39-03-89366		Rabbit Tank	2.80	5.60
CC-098- S	39-03-89367	39-03-86569	Tamerack (Right of Way) Tank	1.00	2.38
CC-100- S	39-03-89369	39-03-91764	Waterhole #4	0.78	0.80
CC-101- S	39-03-89370	39-03-86383	Bull Pasture Tank	2.18	14.59
CC-102- S	39-03-89371	39-03-91636	Father's (Little John's) Tank	2.38	4.00
CC-105- S	39-03-89374	39-03-91633	Brett's (Lynn's) Tank	1.53	1.95
CC-107- S	39-03-89376	39-03-86372	Well #10 & Windmill Well #10 Tank	0.74	0.09
CC-108- S	39-03-89376		Bruce's Tank	1.00	1.07
CC-112- S	39-03-89380		Blazer Tank	0.136	0.136
CC-113- S	39-03-89381	39-03-91765	Carolyn's Tank	0.13	0.13
CC-117- S	39-03-89385	39-03-91634	Upper Red Tank	5.31	11.01
CC-121- S	39-03-89389		Larry's (Robin's) Tank	1.00	23.94
CC-123- S	39-03-89391	39-03-86374	Dark (Little) Tank	2.33	10.85
CC-124- S	39-03-89392		Little Tank	2.80	5.11
CC-125- S	39-03-89393		Jacks Canyon instream use	0.413	0.413
CC-126- S	39-03-89394	39-03-86377	Middle Red Tank West	22.24	10.50
CC-127- S	39-03-89395		Middle Red Tank East	12.23	12.23
CC-128- S	39-03-89396	39-03-86378	Mule Tank	3.92	3.77
CC-131- S	39-03-89399	39-03-86382	Grandpa (Agape) Tank	3.80	3.80
CC-132- S	39-03-89400	39-03-86281	Burch Tank	3.92	4.89
CC-133- S	39-03-89401		Railroad Tank	5.60	10.40
CC-134- S	39-03-89402	39-03-86570	Big John's Tank	3.36	8.50
CC-136- S	39-03-89404		Mesa Tank	0.51	0.17
CC-138- S		39-03-86288	Clear Creek Instream Use	0.85	
CC-139- S		39-03-86376	Old Tank	5.39	4.90
CC-141- S		39-03-86484	Jacks Canyon instream use	0.85	
CC-142- S			Unnamed tank	0.90	0.90
CC-143- S			Unnamed tank	2.50	2.50
CC-082- SO	39-03-89351	39-03-86462	Rock House Tank	8.33	14.86
			Total	727.213	1034.933

Note: The last letter of the water right # is a land ownership code for the Place of Use:

D=deeded Hopi ranch land S= State lease land associated with Hopi ranch

O=other (off deeded Hopi ranch and associated State lease lands)

2 letters=on both types of land indicated by the each of the letters

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-001-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-85497			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90533			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.74 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	David's Tank				
Priority Date:	Apr.15, 1985				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-002-D	COMBINED WITH CC-135-D
Applicable Adjudication Filings:	Filed by ranch:	39-03-85498
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Bob's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-003-S	COMBINED WITH CC-108-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-85499
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of :	Qtr Qtr	Sec T R
Points of Diversion (POD):		
Place of Use (if different from POD):		
Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	----- AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Bruce's Tank	
Priority Date:		

Comments:
The ranch filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-004-DS			
Applicable Adjudication Filings:		Filed by ranch:	39-03-87911		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	55-613987		
		Filed by SLD:			
Type of Uses:		Stockpond			
Source of Supply:		Groundwater (Hotcake Well)			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	Lot 1 (SESE)	33	17N	14E
Place of Use (if different from POD):					
	Tank	Lot 4 (NWNW)	3	16N	14E
		Lot 4 (SWSW)	34	17N	14E

Flow Rate:	35 or less	GPM	------ CFS
Annual Volume of Use:	------	Gal	1.91 AF
Storage Volume or Reservoir Capacity:	------	Gal	0.29 AF
Irrigated Acres (if irrigation use):	------	Ac	
Name of Reservoir or Stockpond:	Unnamed		
Priority Date:	Prior to 1933		

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Storage volume estimated from aerial photos.
Location of well on aerial photos differs slightly from that shown on USGS quad maps.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-005-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87912			
	Filed by SLD:	39-03-86474			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613986, 55-613989			
	Filed by SLD:	55-614300			
Type of Uses:	Domestic, Stockpond, Wildlife				
Source of Supply:	Groundwater (Rock Station Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 3 (NESE)		36	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	2.06 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	1.00 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Dec. 30, 1853				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from other similar wells on the Clear Creek Ranch.
Annual use involves 1.2 AF domestic use and .86 AF stock use

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-006-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87913			
	Filed by SLD:	39-03-86385			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021624, 36-021625			
	Filed by SLD:	36-000360			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW, SWSW		24	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.85 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to 1884				

Comments:
Instream use--aerial photos show no stockpond as suggested by claim 39-03-87913.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-007-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87914			
	Filed by SLD:	39-03-86388			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021626			
	Filed by SLD:	36-000361			
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2SE, SENE		36	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.53 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond:

Priority Date: Dec. 30, 1853

Comments:
Instream use--aerial photos indicate no stockpond as suggested by claim 39-03-87914.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-008-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87915			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021627			
	Filed by SLD:				
Type of Uses:	Stockwater, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		------ AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Prior to Feb. 1915				

Comments:
Instream use-- aerial photos indicate no stockpond as suggested by claim 39-03-87915.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-009-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87916			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021640			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		9	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		------ Gal		3.27 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.27 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Pump Ranch Tank				
Priority Date:	Apr.1, 1947				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-010-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87917
	Filed by SLD:	39-03-86473
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021628
	Filed by SLD:	36-101550
Type of Uses:	Stockwater, Wildlife	
Source of Supply:	Jacks Canyon	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2NE,SWNE,SENW,N2SW	36	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	4.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond:

Priority Date: Dec. 30, 1853

Comments:
Instream use--aerial photos indicate no stockpond as suggested by 39-03-87917.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-011-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87918			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021631, 38-021660			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 11, 13		3	16N	13E
Place of Use (if different from POD):					
Pond	Lots 11,14		3	16N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		33.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Dick Heart Tank				
Priority Date:	1913				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-012-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87919			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021630			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NWNW		17	17N	15E
Place of Use (if different from POD):					
Pond	NW		17	17N	15E
	E2NE		18	17N	15E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		99.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		173.00 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Moonlight Bay Reservoir				
Priority Date:	Prior to Feb.1915				

Comments:
Reservoir capacity estimated from USGS quad maps and aerial photos.
Reservoir capacity amount does not include the capacity of adjacent Upper & Middle Moonlight Tanks (CC-013-D & CC-036-D).

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-013-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87920		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021638		
	Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWNW	17	17N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	3.51 AF		
Storage Volume or Reservoir Capacity:	----- Gal	3.51 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Upper Moonlight Tank			
Priority Date:	Prior to 1960			
Comments:				

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-014-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87921, 39-03-87930			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021658, 38-021659			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dams	Lots 4,5		1	16N	14E
Place of Use (if different from POD):					
Ponds	Lots 4,5		1	16N	14E
	Lot 8		2	16N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	15.36 AF
Storage Volume or Reservoir Capacity:	------ Gal	15.36 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Simms Tank and Silt Trap	
Priority Date:	Prior to 1957	

Comments:
Annual use and capacity are the combined amounts for the main tank and silt trap which acts as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-015-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87922		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021645		
	Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)	35	17N	13E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.21 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.21 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Middle Eckles Tank			
Priority Date:	Jul. 1968			

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-016-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87923			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021637			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		21	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.70 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.70 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	King Tank				
Priority Date:	Nov. 22, 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-017-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87924			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021641			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.30 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.30 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Haight-Lovelady Tank				
Priority Date:	Prior to 1930				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-018-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87925			
	Filed by SLD:	39-03-86486			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021642			
	Filed by SLD:	36-001347, 38-091310			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		9.55 AF	
Storage Volume or Reservoir Capacity:		----- Gal		9.55 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lower Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-019-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87926			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021643			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (SESE)		35	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.37 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.37 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lower Eckles Tank				
Priority Date:	Jul. 1968				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-020-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87927		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021644		
	Filed by SLD:			
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 4	1	16N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.39 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.39 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Upper Eckles Tank	
Priority Date:	Jul. 1968	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-021-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87928			
	Filed by SLD:	39-03-86282			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021647			
	Filed by SLD:	36-001212, 38-090745			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSW		12	16N	13E
Place of Use (if different from POD):					
Pond	SWSW,NWSW		12	16N	13E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	4.31 AF
Storage Volume or Reservoir Capacity:	------ Gal	4.31 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Elk Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-022-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87929			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021639			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		3	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.83 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.83 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Horse (Horse Pasture) Tank				
Priority Date:	Fall 1968				

Comments:
The USGS quad map labels this facility Horse Pasture Tank while the filings call it Horse Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-023-DS	COMBINED WITH CC-014-DS
Applicable Adjudication Filings:	Filed by ranch:	39-03-87930
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Simms Silt Trap	
Priority Date:		

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-024-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87931			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021636			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.10 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Cedar Tree Tank				
Priority Date:	Spring 1968				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-025-S	COMBINED WITH CC-031-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-87932
	Filed by SLD:	39-03-86386
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Autry Silt Trap	
Priority Date:		

Comments:
The silt trap and main tank are considered to be 1 system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-026-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87933			
	Filed by SLD:	39-03-86373			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021650			
	Filed by SLD:	36-001268, 38-090746			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		24	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	6.05 AF
Storage Volume or Reservoir Capacity:	------ Gal	15.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Chauncey Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-027-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87934			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	Permit 33-78405			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 2,3		5	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		72.73 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Rincon Tank				
Priority Date:	Jul.1945				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-028-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87935			
	Filed by SLD:	39-03-86384			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021655			
	Filed by SLD:	36-001279, 38-090737			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2NW		12	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.44 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.44 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Sloppy Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-029-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87936			
	Filed by SLD:	39-03-86487			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021653			
	Filed by SLD:	36-001348, 38-091311			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		32	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.06 AF	
Storage Volume or Reservoir Capacity:		----- Gal		2.06 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Upper Algerita Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-030-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87937			
	Filed by SLD:	39-03-86375			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021652			
	Filed by SLD:	36-001270, 38-090738			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESE		26	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	9.89 AF
Storage Volume or Reservoir Capacity:	------ Gal	9.89 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Fanning Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-031-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87938, 39-03-87932			
	Filed by SLD:	39-03-86387, 39-03-86386			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021656, 38-021657			
	Filed by SLD:	36-001281, 38-090744, 36-001280, 38-090747			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE, NESW		28	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	19.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	19.30 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Autry Tank and Silt Trap	
Priority Date:	Prior to 1884	

Comments:
The annual use and capacity amounts are the combined amounts for the main tank and silt trap which is considered as one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-032-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87939			
	Filed by SLD:	39-03-86283			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021646			
	Filed by SLD:	36-001213, 38-091242			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		22	16N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	1.10 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.10 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Hidden Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-033-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-87940
	Filed by SLD:	39-03-86380
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021648
	Filed by SLD:	36-001275, 38-091282
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWSE	34	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	15.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	15.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Lower Gravel Pit Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-034-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87941			
	Filed by SLD:	39-03-86286			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021649			
	Filed by SLD:	36-001215, 38-095349			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	16N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.81 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.81 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Birch Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-035-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87942			
	Filed by SLD:	39-03-86381			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021651			
	Filed by SLD:	36-001276, 38-091283			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWSE		34	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		9.85 AF	
Storage Volume or Reservoir Capacity:		------ Gal		9.85 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Gravel Pit Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-036-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87943			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-021654			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		17	17N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		10.39 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.39 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Middle Moonlight Tank				
Priority Date:	Prior to 1960				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-037-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87944			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613988			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Winslow Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		28	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	15 GPM	------ CFS
Annual Volume of Use:	------ Gal	1.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Aug. 20, 1969	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual volume and storage amounts estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-038-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87945			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613983			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Tin Ranch Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		23	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		35 or less GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.13 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1933				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-039-O				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87946			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613984			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Boundary Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		19	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	1.60 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	0.10 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	1930				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate and storage volume was estimated from other similar wells on the Clear Creek Ranch.
This well, which lies on off-ranch private land, is shared by the Clear Creek Ranch and the Bar-T-Bar Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-040-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87947			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-613985			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #12)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		17	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:	35 or less	GPM	----- CFS		
Annual Volume of Use:	-----	Gal	1.91 AF		
Storage Volume or Reservoir Capacity:	-----	Gal	0.50 AF		
Irrigated Acres (if irrigation use):	-----	Ac			
Name of Reservoir or Stockpond:	Unnamed				
Priority Date:	Prior to 1940				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Flow rate estimated from similar wells on the Clear Creek Ranch.
Storage amount estimated from aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-041-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-87948			
	Filed by SLD:	39-03-86289			
Applicable Pre-adjudication Filings:	Filed by ranch:	36-021629			
	Filed by SLD:	36-000359			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Clear Creek				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Instream pump	SESENE		16	16N	14E
Place of Use (if different from POD):					
Tank	NWSENE		16	16N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.84 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.04 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed	
Priority Date:	Dec. 20, 1853	

Comments:
Pump is called Pump Ranch pump.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-042-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-87949		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockwater			
Source of Supply:	East Sunset Spring			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NENE	31	17N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	2 GPM	----- CFS
Annual Volume of Use:	----- Gal	3.23 AF
Storage Volume or Reservoir Capacity:	----- Gal	----- AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1940	

Comments:
Annual use estimated from flow rate.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-043-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89313			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064280			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)		1	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.19 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Model T Tank Section 1				
Priority Date:	Jun. 1, 1955				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-044-D			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89314		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090467		
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed washes			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 2 (NWNE)	1	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	8.62 AF
Storage Volume or Reservoir Capacity:	------ Gal	8.62 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Model T Tank Section 2	
Priority Date:	Jun. 1, 1955	

Comments:
Annual amount estimated to equal tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-045-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89315			
	Filed by SLD:	39-03-86466			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064264			
	Filed by SLD:	36-001332, 36-101679			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		4	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.69 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	(Old) Coon Tank				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89315 is closest to being correct.
Filing 38-090685 was also filed by the SLD but was withdrawn because the tank was constructed prior to 1919.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-046-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89316			
	Filed by SLD:	39-03-86465			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064245			
	Filed by SLD:	36-001331, 38-091305			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		4	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.16 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.67 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	New Coon Tank				
Priority Date:	Prior to 1884				

Comments:
Filing 38-090700 was also filed by the SLD but it was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064245 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-047-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89317			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090458, 55-606818			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #11)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		9	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.476 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #11 Tank				
Priority Date:	1935				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use estimated from other similar wells on Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-048-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89318			
	Filed by SLD:	39-03-91635			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90546			
	Filed by SLD:	36-101739			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		315,750 Gal		0.97 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.32 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #3 Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-049-D	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89319
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606822
	Filed by SLD:	
Type of Uses:	Domestic, Stockpond	
Source of Supply:	Groundwater (Hartman (House) Well)	

Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	NWNE	13	18N	14E
Place of Use (if different from POD):					
	Tank	NWNE	13	18N	14E
	House	Lot 1 (NENE)	13	18N	14E

Flow Rate:	10 GPM	----- CFS
Annual Volume of Use:	----- Gal	2.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.075 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	House Well Tank	
Priority Date:	1935	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
These facilities lie on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-050-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89320			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90547			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		13	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,751 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.38 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Loyd's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-051-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89321			
	Filed by SLD:	39-03-86467			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064249			
	Filed by SLD:	36-001333, 38-090698			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		14	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.10 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Ray's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-052-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89322		
		Filed by SLD:	39-03-86468		
Applicable Pre-adjudication Filings:		Filed by ranch:	CWR 161		
		Filed by SLD:	36-001334, 38-095417		
Type of Uses:		Stockpond, Wildlife			
Source of Supply:		Unnamed wash			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Dam	NENW	20	18N	14E
Place of Use (if different from POD):					
	Pond	E2NW	20	18N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	19.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	19.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Rowlan (Rawlin's) Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-090459 was also filed by the ranch but it was withdrawn.
The ranch filings and USGS quad call this Rowlan Tank and the SLD filings call it Rawlin's Tank

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-053-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89323			
	Filed by SLD:	39-03-86469			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064251			
	Filed by SLD:	36-001335, 36-101680			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		22	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	11.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	14.31 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Prairie Dog Tank	
Priority Date:	Prior to 1884	

Comments:
Filing 38-091306 was also filed by the SLD but was withdrawn because the tank was built before 1919.
Tank capacity is based on calculations attached th the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-054-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89324			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90548			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		23	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Immanuel's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-055-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89325			
	Filed by SLD:	39-03-86470			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087869			
	Filed by SLD:	36-001336, 38-090704			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		24	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.20 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.38 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Roadway Tank #2				
Priority Date:	Prior to 1884				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-056-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89326			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087870			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)		25	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.67 AF	
Storage Volume or Reservoir Capacity:		----- Gal		14.61 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Roadway Tank #1				
Priority Date:	May 31, 1971				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-057-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89327			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064250			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SESW		25	18N	14E
Place of Use (if different from POD):					
Pond	SESW,SWSW		25	18N	14E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Karen's Tank				
Priority Date:	Jun.1, 1971				

Comments:
Tank need rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-058-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89328			
	Filed by SLD:	39-03-86471			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064248			
	Filed by SLD:	36-001337, 38-090684			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		34	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.99 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Highway (Clay's) Tank				
Priority Date:	Prior to 1884				

Comments:
Claim 39-89328 calls this tank Clay's Tank, while the other filings refer to it as Highway Tank.
The tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-059-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89329			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064255			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		31	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.04 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.06 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Old Hobo Tank				
Priority Date:	Jun. 1, 1930				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-060-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89330			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064273			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 8		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.01 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Fisher Tank				
Priority Date:	May 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-061-S	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331
	Filed by SLD:	39-03-86472
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90529, 38-090468, 38-064247
	Filed by SLD:	36-001338, 38-090703
Type of Uses:	Stockpond, Wildlife	
Source of Supply:	Unnamed wash	

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NWNE, NENW	34	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	16.88 AF
Storage Volume or Reservoir Capacity:	----- Gal	16.88 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Highway Tanks #1 & #2 (Clay's Tank)	
Priority Date:	Prior to 1884	

Comments:
Highway Tanks #1 and #2 are considered one overall system in this abstract.
The ranch filings (except 38-064247) call these tanks Highway Tanks #1 and #2, while the SLD filings and ranch filing 38-064247 call it Clay's Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-86472 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-062-S	COMBINED WITH CC-061-S
Applicable Adjudication Filings:	Filed by ranch:	39-03-89331
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Highway Tank #2	
Priority Date:		

Comments:
Highway Tanks #1 and #2 are considered one system.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-063-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89332			
	Filed by SLD:	39-03-86475			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064278			
	Filed by SLD:	36-001339, 38-091307			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		4	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		4.48 AF	
Storage Volume or Reservoir Capacity:		------ Gal		12.05 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Model A Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-064-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89333		
		Filed by SLD:			
Applicable Pre-adjudication Filings:		Filed by ranch:	55-606825		
		Filed by SLD:			
Type of Uses:		Stockpond			
Source of Supply:		Groundwater (well)			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Well	SWSE	32	19N	15E
Place of Use (if different from POD):					
	Tank	SWSE	32	19N	15E
		Lot 2 (NWNE)	5	18N	15E

Flow Rate:	20 GPM	------ CFS
Annual Volume of Use:	------ Gal	1.50 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Windmill Well #8 Tank	
Priority Date:	1927	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
The annual use amount is estimated from other similar wells on the Clear Creek Ranch.
The tank is on the section line common to sections 32 and 5.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-065-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89334			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90539			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		41,057 Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.04 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Mediator Tank				
Priority Date:	Jun. 15, 1983				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-066-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89335			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90538			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	62,563 Gal	0.19 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.06 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Pennsylvania Tank	
Priority Date:	Oct.15, 1982	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-067-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89336			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90535			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		6	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		37,147 Gal		0.11 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Alpha Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-068-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89337			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90540			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		45,945 Gal		0.14 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.05 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Daniel's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-069-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89338			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90541			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		66,474 Gal		0.20 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.07 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Hoskin's Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-070-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89339			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90542			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	28,349 Gal	0.09 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.03 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Mathew's Tank	
Priority Date:	Oct.15, 1982	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-071-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89340			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90543			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSENW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		18,574 Gal		0.06 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.02 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Omega Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-072-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89341			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90544			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		156,408 Gal		0.48 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.16 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #1				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-073-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89342			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90545			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSWSW		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.56 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #2				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-074-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89343			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90537			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	50,833 Gal	0.16 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.05 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Mark's Tank	
Priority Date:	Oct.15, 1982	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-075-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89344			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90536			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		29,327 Gal		0.09 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.03 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Luke's Tank				
Priority Date:	Oct.15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-076-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89345			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90534			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNWNE		7	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		40,080 Gal		0.12 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.04 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Branch Tank				
Priority Date:	Oct. 15, 1982				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-077-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89346			
	Filed by SLD:	39-03-86480			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064244			
	Filed by SLD:	36-001344, 38-090696			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		16	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	9.90 AF
Storage Volume or Reservoir Capacity:	------ Gal	11.59 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Bar Pitt Tank	
Priority Date:	Dec.30,1853	

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-078-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89347			
	Filed by SLD:	39-03-86481			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064281			
	Filed by SLD:	See notes			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		18	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		10.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Headquarters (HQ) Tank				
Priority Date:	Prior to 1884				

Comments:
Filings 36-001345 and 38-090705 were also filed by the SLD but were withdrawn. In addition, the SLD has indicated that it will also withdraw its adjudication filing for this facility because it is breached and will not be rebuilt. However the tank capacity in this abstract is based on the SLD adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-079-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89348			
	Filed by SLD:	39-03-86485			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090457, 55-606823			
	Filed by SLD:	55-614301			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Highway Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well	SWNW		30	18N	15E
Place of Use (if different from POD):					
Tank	NWSW		30	18N	15E
Flow Rate:		15 GPM	----- CFS		
Annual Volume of Use:		----- Gal	0.74 AF		
Storage Volume or Reservoir Capacity:		----- Gal	0.074 AF		
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Highway Well Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Filings 39-03-89348 and 38-090457 indicate the source is both surface and groundwater, however the aerial photos indicate the only source is a well.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-080-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89349			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064257			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lots 1,2 (N2NE)		1	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.10 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Corner Tank				
Priority Date:	Jun.1, 1958				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-081-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89350			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090466, 55-606820			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash and groundwater(Well #7)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Well and pond	SWSW		13	18N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	9 GPM	----- CFS
Annual Volume of Use:	----- Gal	1.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.235 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Windmill Well #7 Tank	
Priority Date:	1927	

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-082-SO				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89351			
	Filed by SLD:	39-03-86462			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064267			
	Filed by SLD:	36-001328, 36-101678			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSE		21	18N	13E
	NWNE		28	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		8.33 AF	
Storage Volume or Reservoir Capacity:		------ Gal		14.86 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Rock House Tank				
Priority Date:	Prior to 1884				

Comments:
SLD documents indicate this facility is shared with the adjacent lease holder.
Filing 38-090661 was also filed by the SLD but was withdrawn because the tank was built prior to 1919.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064267 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-083-O Abstract deleted--not associated with Clear Cr. Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89352
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 347
	Filed by SLD:	
Type of Uses:		
Source of Supply:		

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	King Tank	
Priority Date:		

Comments:
The Hopi ranch manager indicates this tank is not used by the ranch.
This tank is sometimes confused with Upper King Tank (CC-140-S) which some people also call King Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-084-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89353			
	Filed by SLD:	39-03-86464			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064256			
	Filed by SLD:	36-001330, 38-091304			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	2 unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SE, NESW		36	18N	13E
Place of Use (if different from POD):	W2SE		36	18N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.72 AF	
Storage Volume or Reservoir Capacity:		------ Gal		15.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	New Hobo Tank				
Priority Date:	Dec. 30, 1853				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-085-O Abstract deleted--not associated with Clear Cr.Ranch	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89354
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	
	Filed by SLD:	
Type of Uses:		
Source of Supply:		
Location of : Points of Diversion (POD):	Qtr Qtr	Sec T R
Place of Use (if different from POD):		
Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Tucker Tank Well Tank	
Priority Date:		

Comments:
This well and tank are just outside the ranch lease boundary on privately owned land, and are/or were apparently used by the private landownwer.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-086-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89355			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90551			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		13	19N	14E
Place of Use (if different from POD):	SESW,SWSE		13	19N	14E
	NENW, NWNE		24	19N	14E

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	325,851 Gal	1.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.32 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Tucker Tank (Ditch)	
Priority Date:	Mar.1, 1983	

Comments:
This facility lies on the section line between sections 13 and 24.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-087-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89356			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064262			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSE		20	19N	14E
Place of Use (if different from POD):					
Pond	SWSE,SESW		20	19N	14E
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.60 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	North Corner Tank				
Priority Date:	Jun. 1, 1975				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-088-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89357			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606824			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #1)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		21	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		9 GPM		----- CFS	
Annual Volume of Use:		------ Gal		1.50 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.74 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Windmill Well #1 Tank				
Priority Date:	1927				

Comments:
Water from well stored in adjacent tanks and/or drinkers.
Annual use amount estimated from other similar wells on the Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-089-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89358			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90520			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed washes				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		35	19N	14E
Place of Use (if different from POD):	Same as POD				

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	325,851 Gal	1.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	27.07 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Indian Tank	
Priority Date:	Jun.1, 1935	

Comments:
Filing 38-064265 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89358 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-090-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89359			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90521			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	W2SW		21	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		17.25 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Squaw Tank				
Priority Date:	May 1, 1955				

Comments:
Filing 38-064246 was also filed by the ranch but was withdrawn.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89359 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:		CC-091-S			
Applicable Adjudication Filings:		Filed by ranch:	39-03-89360		
		Filed by SLD:	39-03-86565		
Applicable Pre-adjudication Filings:		Filed by ranch:	38-064261		
		Filed by SLD:	36-001393, 38-091329		
Type of Uses:		Stockpond, Wildlife			
Source of Supply:		Tucker Flat Wash			
Location of :		Qtr Qtr	Sec	T	R
Points of Diversion (POD):					
	Dam	SWSWNE,SESENW	24	19N	14E
Place of Use (if different from POD):					
	Pond	SWNE,SENW,NWSE, & NESW	24	19N	14E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	5.60 AF
Storage Volume or Reservoir Capacity:	----- Gal	12.60 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Tucker Tank West	
Priority Date:	Prior to 1884	

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064261 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-092-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89361			
	Filed by SLD:	39-03-86566			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064243			
	Filed by SLD:	36-001394, 38-091330			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESWNE		24	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		14.73 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Tucker Tank East				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-093-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89362		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank East			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	E2SWNE	24	19N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.95 AF		
Storage Volume or Reservoir Capacity:	------ Gal	0.95 AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:	Tucker Tank East Overflow			
Priority Date:	May 1, 1955			

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-094-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89363		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSWNE	24	19N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.293 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.293 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Tucker Tank Middle	
Priority Date:	May 1, 1955	

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-095-S			
Applicable Adjudication Filings:	Filed by ranch:	39-03-89364		
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Tucker Flat Wash via overflow from Tucker Tank West			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESENW	24	19N	14E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	----- GPM	----- CFS		
Annual Volume of Use:	----- Gal	0.077 AF		
Storage Volume or Reservoir Capacity:	----- Gal	0.077 AF		
Irrigated Acres (if irrigation use):	----- Ac			
Name of Reservoir or Stockpond:	Tucker Tank West Overflow			
Priority Date:	May 1, 1955			

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-096-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89365			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090469			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		21	19N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.965 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.965 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Windmill Well #1 Tank (Soil)	
Priority Date:	Jul. 1, 1975	

Comments:
Annual use amount assumed equal to tank capacity.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-097-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89366			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064259			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		12	18N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		----- Gal		5.60 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Rabbit Tank				
Priority Date:	Jun.15, 1975				

Comments:
Needs rehabilitation.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-098-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89367			
	Filed by SLD:	39-03-86569			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-027013			
	Filed by SLD:	36-001395, 38-088817			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		16	19N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	1.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.38 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Tamerack (Right of Way) Tank	
Priority Date:	Dec. 30, 1853	

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.
Filing 38-027013 calls this facility Right of Way Tank while the rest of the filings call it Tamerack Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-099-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89368			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064263			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		31	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		------ Gal		11.27 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	North Tank				
Priority Date:	Jul. 1, 1965				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-100-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89369			
	Filed by SLD:	39-03-91764			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90527			
	Filed by SLD:	36-104874			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SESE)		36	19N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.78 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.80 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Waterhole #4				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-101-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89370			
	Filed by SLD:	39-03-86383			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064258			
	Filed by SLD:	36-001278, 38-090697			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		4	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		2.18 AF	
Storage Volume or Reservoir Capacity:		----- Gal		14.59 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Bull Pasture Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-102-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89371			
	Filed by SLD:	39-03-91636			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90524			
	Filed by SLD:	36-101740			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	NESW		6	17N	14E
Place of Use (if different from POD):					
Pond	E2SW		6	17N	14E

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	2.38 AF
Storage Volume or Reservoir Capacity:	----- Gal	4.00 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Father's (Little John's) Tank	
Priority Date:	Prior to 1884	

Comments:
Both the ranch and SLD filings call this facility Father's Tank, but the USGS quad map labels it Little John's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-103-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89372			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064252			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESE		7	17N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.29 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Little John's Tank	
Priority Date:	Jun. 1, 1970	

Comments:
The USGS has mislabled a different pond as Little John's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-104-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89373			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90522			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		13	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	325,851 Gal	1.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.95 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Phil's Tank	
Priority Date:	Oct.15, 1984	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-105-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89374			
	Filed by SLD:	39-03-91633			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90525			
	Filed by SLD:	36-101737, 38-095499			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		18	17N	14E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.53 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.95 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Brett's (Lynn's) Tank				
Priority Date:	Prior to 1884				

Comments:
Both the ranch and SLD filings call this facility Brett's Tank, but the USGS quad map labels it Lynn's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-106-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89375			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90549			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENE		3	17N	13E
Place of Use (if different from POD):	Same as POD				

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	325,851 Gal	1.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.14 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	LTMV Tank	
Priority Date:	Oct. 1, 1983	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-107-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376			
	Filed by SLD:	39-03-86372			
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606819			
	Filed by SLD:	55-614285			
Type of Uses:	Stockpond				
Source of Supply:	Groundwater (Well #10)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	12 GPM	----- CFS
Annual Volume of Use:	----- Gal	0.74 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.09 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Windmill Well #10 Tanks	
Priority Date:	Jun.20, 1910	

Comments:
Water from well is stored in adjacent tanks and/or drinkers.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-108-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89376, 39-03-85499			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90530			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNW		2	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	325,851 Gal	1.00 AF
Storage Volume or Reservoir Capacity:	----- Gal	1.07 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Bruce's Tank	
Priority Date:	Apr.29, 1985	

Comments:
The ranch has filed 2 adjudication claims for this facility.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-109-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89377			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR 346			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NESW		5	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		------ CFS	
Annual Volume of Use:		----- Gal		10.41 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.41 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Porcupine (Red Hill) Tank				
Priority Date:	Dec.13, 1929				

Comments:
Tank capacity is based on calculations attached to the ranch adjudication claim, and represents the total capacity of a 2-pond connected system.
Filing 38-090460 was also filed by the ranch but was withdrawn.
Annual use amount assumed equal to tank capacity.
Filing CWR 346 calls this facility Red Hill Tank, but the other filings and the USGS quad map call it Porcupine Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-110-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89378			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	55-606821			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Groundwater ((West)Sunset Well)				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 4 (SWSW)		7	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		12 GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.59 AF	
Storage Volume or Reservoir Capacity:		------ Gal		3.59 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	West Sunset Well Tank				
Priority Date:	Aug.7, 1953				

Comments:
Water from well is stored in adjacent tanks and/or drinkers.
Assume annual use amount is equal to tank capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-111-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89379			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064268			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		9	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.96 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.35 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Sunset Tank				
Priority Date:	Apr.1, 1972				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-112-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89380			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090461			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.136 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.136 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Blazer Tank				
Priority Date:	Nov.1, 1968				

Comments:
Needs rehabilitation.
Assume annual use amount is equal to pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-113-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89381			
	Filed by SLD:	39-03-91765			
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90550			
	Filed by SLD:	36-104875			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SESW		12	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.13 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.13 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Carolyn's Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-114-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89382			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064254			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SENENW		13	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	1.12 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.37 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Lynn's Tank	
Priority Date:	May 1, 1970	

Comments:
The USGS quad has mislabeled a different pond as Lynn's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-115-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89383			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90523			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		1.35 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Joyanna's Tank				
Priority Date:	Oct.7, 1984				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-116-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89384			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064253			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NESW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		1.68 AF	
Storage Volume or Reservoir Capacity:		------ Gal		2.46 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Robin's Tank				
Priority Date:	Jun.1,1968				

Comments:
The USGS quad map has mislabeled a different pond as Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-117-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89385			
	Filed by SLD:	39-03-91634			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064276			
	Filed by SLD:	36-101738, 38-095500			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENW		20	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		5.31 AF	
Storage Volume or Reservoir Capacity:		------ Gal		11.01 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper Red Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-118-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89386			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090463			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSE		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		0.399 AF	
Storage Volume or Reservoir Capacity:		----- Gal		0.399 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Jul.15, 1942				

Comments:
The filings indicate this facility to be a stockpond, however aerial photo analysis and the ground photo attached to the claim show it to be ponded water in Jacks Canyon and hence instream use.
Annual use is assumed to be equal to the claimed storage amount.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-119-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89387			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064277			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	N2NW		23	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.64 AF	
Storage Volume or Reservoir Capacity:		----- Gal		12.29 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Lower Red Tank				
Priority Date:	Jul.15, 1942				
Comments:					

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-120-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89388			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090462			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		23	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.63 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.63 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Dirt Dike	
Priority Date:	Jul.15, 1942	

Comments:
Annual use amount is assumed to be equal to the pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-121-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89389			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-) 90528			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Local runoff plus supplemental water from Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENWNW		24	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		325,851 Gal		1.00 AF	
Storage Volume or Reservoir Capacity:		----- Gal		23.94 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Larry's (Robin's) Tank				
Priority Date:	Oct.15, 1978				

Comments:
The full capacity of this pond is not realized until water from Jacks Canyon Dam (CC-122-DS) fills and overflows into Larry's Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 39-03-89389 is closest to being correct.
The filings call this facility Larry's Tank, but the USGS quad map labels it Robin's Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-122-DS				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89390			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90526			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):					
Dam	SWSWSW		13	17N	13E
	NWNWNW		24	17N	13E
Place of Use (if different from POD):					
Reservoir	SWSW		13	17N	13E
	E2NE, SWNE, NWSE		23	17N	13E
	NWNW		24	17N	13E
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		123.00 AF	
Storage Volume or Reservoir Capacity:		------ Gal		123.00 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Jacks Canyon Dam (Mario's Tank)				
Priority Date:	Prior to 1955 (date of 15' USGS quad map showing breached dam)				

Comments:
Jacks Canyon Dam is an old dam in Jacks Canyon that is currently breached.
The above listed applicable filings apply to Mario's Tank, a small pond which lies in the pool area created by Jacks Canyon Dam if it were rebuilt.
The above listed reservoir capacity of Jacks Canyon Dam was determined by planimetering reservoir contours on a USGS quad map for a maximum reservoir depth of 21 feet, the approximate height of the old dam. The capacity has been reduced by the claimed storage for Larry's Tank (CC-121-S) which is inundated by Jacks Canyon Dam during high water levels.
The ranch also filed a historic irrigation claim 39-03-91912 covering this same old dam, however irrigation is not claimed in this abstract.
Annual use is herein assumed to be equal to the reservoir capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-123-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89391			
	Filed by SLD:	39-03-86374			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090464			
	Filed by SLD:	36-001269, 38-090701			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		24	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	2.33 AF
Storage Volume or Reservoir Capacity:	----- Gal	10.85 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Dark (Little) Tank	
Priority Date:	Prior to 1884	

Comments:
The ranch filings call this facility Dark Tank while the SLD filings call it Little Tank.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-124-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89392			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064271			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Local runoff				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWNE		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		2.80 AF	
Storage Volume or Reservoir Capacity:		------ Gal		5.11 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Little Tank				
Priority Date:	Jun.1, 1935				

Comments:
This facility is not to be confused with CC-123-S which the SLD also calls Little Tank.
Tank capacity is based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-125-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89393			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-090465			
	Filed by SLD:				
Type of Uses:	Stockwater				
Source of Supply:	Jacks Canyon				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		26	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		0.413 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.413 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:					
Priority Date:	Oct.7, 1942				

Comments:
The filings claim this facility as a stockpond, however aerial photo analysis and ground photos attached to the claim indicate it is a ponded area in Jacks Canyon and hence instream use.
Annual use is assumed to equal the claim pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-126-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89394			
	Filed by SLD:	39-03-86377			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064275			
	Filed by SLD:	36-001272			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		28	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		22.24 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.50 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Middle Red Tank West				
Priority Date:	Prior to 1884				

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064275 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-127-S			
Applicable Adjudication Filings:	Filed by ranch: 39-03-89395			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NESENW	28	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	12.23 AF
Storage Volume or Reservoir Capacity:	----- Gal	12.23 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Middle Red Tank East	
Priority Date:	Jun.1, 1935	

Comments:
Annual use assumed to be equal to pond capacity.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-128-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89396			
	Filed by SLD:	39-03-86378			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064274			
	Filed by SLD:	36-001273, 38-090699			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNW		32	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.92 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.77 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Mule Tank	
Priority Date:	Prior to 1884	

Comments:
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-064274 is closest to being correct.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-129-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89397			
	Filed by SLD:	39-03-86379			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064269			
	Filed by SLD:	See notes			
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	Lot 1		5	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		----- Gal		4.40 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Echols Tank				
Priority Date:	Jun. 1, 1954				

Comments:
The SLD has withdrawn filings 36-001274 and 38-090687 and plans to withdraw 39-03-86379 because Echols Tank actually lies on non-State land in section 5 rather than section 32, T17N, R13E as indicated on the filings.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-130-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89398			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064272			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWNE		33	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		----- Gal		7.23 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Caliche Tank				
Priority Date:	Jun.1, 1942				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-131-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89399			
	Filed by SLD:	39-03-86382			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-087868			
	Filed by SLD:	36-001277, 38-090702			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSW		34	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.80 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.80 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Grandpa (Agape) Tank	
Priority Date:	Prior to 1884	

Comments:
Claim 39-89399 calls this facility Agape Tank, while the rest of the filings call it Grandpa Tank.
A rough check of pond capacity using aerial photos indicates the claimed capacity in 38-087868 is closest to being correct.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-132-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89400			
	Filed by SLD:	39-03-86281			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064270			
	Filed by SLD:	36-001211, 38-090695			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	SWSW		8	16N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.92 AF	
Storage Volume or Reservoir Capacity:		------ Gal		4.89 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Burch Tank				
Priority Date:	Prior to 1884				

Comments:
Tank capacity based on calculations attached to the ranch adjudication claim.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-133-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89401			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064260			
	Filed by SLD:				
Type of Uses:	Stockpond				
Source of Supply:	Tucker Flat Wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		18	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		----- GPM		----- CFS	
Annual Volume of Use:		----- Gal		5.60 AF	
Storage Volume or Reservoir Capacity:		----- Gal		10.40 AF	
Irrigated Acres (if irrigation use):		----- Ac			
Name of Reservoir or Stockpond:	Railroad Tank				
Priority Date:	Jun.1, 1955				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-134-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89402			
	Filed by SLD:	39-03-86570			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064279			
	Filed by SLD:	36-001396, 38-090686			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NENE		32	19N	15E
	NWNW		33	19N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		3.36 AF	
Storage Volume or Reservoir Capacity:		------ Gal		8.50 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Big Johns Tank				
Priority Date:	Prior to 1884				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-135-D				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89403, 39-03-85498			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90531			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	S2NENW		13	17N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		323,570 Gal		0.99 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.33 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Bob's Tank				
Priority Date:	Apr. 22, 1985				
Comments:					

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-136-S				
Applicable Adjudication Filings:	Filed by ranch:	39-03-89404			
	Filed by SLD:				
Applicable Pre-adjudication Filings:	Filed by ranch:	CWR(33-)90532			
	Filed by SLD:				
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	NWSENW		18	18N	15E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		165,206 Gal		0.51 AF	
Storage Volume or Reservoir Capacity:		------ Gal		0.17 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Mesa Tank				
Priority Date:	Apr. 24, 1983				

Comments:
Claim 39-03-89404 indicates the source of water is a well, however the existence of a well could not be verified. The CWR, filed after the adjudication claim, indicates the source is surface water.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-137-O Abstract deleted--not associated with Clear Cr. Ranch.	
Applicable Adjudication Filings:	Filed by ranch:	39-03-89405
	Filed by SLD:	
Applicable Pre-adjudication Filings:	Filed by ranch:	55-500987
	Filed by SLD:	

Type of Uses:

Source of Supply:

Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):				

Place of Use (if different from POD):

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	------ AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	

Name of Reservoir or Stockpond: Sunset Estates Well Tank

Priority Date:

Comments:
This facility lies on property not associated with the current Clear Creek Ranch.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-138-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD: 39-03-86288			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD: 36-000359			
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Clear Creek			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, SESW	10	16N	14E
	SENE, E2SE	16	16N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.85 AF
Storage Volume or Reservoir Capacity:	------ Gal	------ AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:		
Priority Date:	Prior to 1884	

Comments:
Instream use.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-139-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86376		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-001271, 38-090748		
Type of Uses:	Stockpond, Wildlife			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	26	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	5.39 AF
Storage Volume or Reservoir Capacity:	----- Gal	4.90 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Old Tank	
Priority Date:	Prior to 1884	
Comments:		

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-140-O				
Applicable Adjudication Filings:	Filed by ranch:				
	Filed by SLD:	39-03-86463			
Applicable Pre-adjudication Filings:	Filed by ranch:	38-064266			
	Filed by SLD:	36-001329, 38-091303			
Type of Uses:	Stockpond, Wildlife				
Source of Supply:	Unnamed wash				
Location of :	Qtr Qtr		Sec	T	R
Points of Diversion (POD):	E2NW		32	18N	13E
Place of Use (if different from POD):	Same as POD				
Flow Rate:		------ GPM		------ CFS	
Annual Volume of Use:		------ Gal		6.30 AF	
Storage Volume or Reservoir Capacity:		------ Gal		13.40 AF	
Irrigated Acres (if irrigation use):		------ Ac			
Name of Reservoir or Stockpond:	Upper King Tank (King Tank)				
Priority Date:	Prior to 1884				

Comments:
The SLD indicates this tank is shared use by the Clear Creek Ranch and the adjacent lease holder.
The SLD filings call this facility Upper King Tank while the ranch filing calls it King Tank. It is also called King Tank by the Hopi ranch manager, and should not be confused with another tank about one-half mile downstream in section 29 also known as King Tank (CC-083-O).

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-141-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:	39-03-86484		
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:	36-000362		
Type of Uses:	Stockwater, Wildlife			
Source of Supply:	Jacks Canyon			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE, S2SW	30	18N	15E
Place of Use (if different from POD):	Same as POD			
Flow Rate:	------ GPM	------ CFS		
Annual Volume of Use:	------ Gal	0.85 AF		
Storage Volume or Reservoir Capacity:	------ Gal	------ AF		
Irrigated Acres (if irrigation use):	------ Ac			
Name of Reservoir or Stockpond:				
Priority Date:	Prior to 1884			

Comments:
Instream use.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-142-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWSE	4	17N	13E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.90 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.90 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Apr.28, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-143-S			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESW	12	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	2.50 AF
Storage Volume or Reservoir Capacity:	----- Gal	2.50 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-144-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	Lot 1 (NENE)	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.10 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.10 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT–HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-145-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	NW portion of Lot 2	13	18N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.60 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.60 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-146-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	N2 portion of Lot 2	13	18N	14E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.30 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.30 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Sep.22, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.
Tank lies on the tract set aside for the ranch manager.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-147-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	W2 portion of Lot 3	5	16N	14E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	3.20 AF
Storage Volume or Reservoir Capacity:	------ Gal	3.20 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-148-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	S2SE	19	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	2.00 AF
Storage Volume or Reservoir Capacity:	------ Gal	2.00 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-149-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SESE	19	18N	15E

Place of Use (if different from POD): Same as POD

Flow Rate:	----- GPM	----- CFS
Annual Volume of Use:	----- Gal	0.30 AF
Storage Volume or Reservoir Capacity:	----- Gal	0.30 AF
Irrigated Acres (if irrigation use):	----- Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to Apr. 28, 1992	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of aerial photos.

WATER RIGHT ABSTRACT--HOPI CLEAR CREEK RANCH

WATER RIGHT #:	CC-150-D			
Applicable Adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Applicable Pre-adjudication Filings:	Filed by ranch:			
	Filed by SLD:			
Type of Uses:	Stockpond			
Source of Supply:	Unnamed wash			
Location of :	Qtr Qtr	Sec	T	R
Points of Diversion (POD):	SWNW	7	18N	15E
Place of Use (if different from POD):	Same as POD			

Flow Rate:	------ GPM	------ CFS
Annual Volume of Use:	------ Gal	0.07 AF
Storage Volume or Reservoir Capacity:	------ Gal	0.07 AF
Irrigated Acres (if irrigation use):	------ Ac	
Name of Reservoir or Stockpond:	Unnamed tank	
Priority Date:	Prior to 1986	

Comments:
Stockpond capacity estimated from aerial photos, with annual use assumed equal to pond capacity.
Priority date taken from date of USGS quad map.

A-3
Supplemental Hopi and United States Information

Separate File Folder,
Not PDF

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*NOT ADMITTED IN CA

November 14, 2005

RECEIVED
NOV 18 2005
LEGAL
DEPT OF WATER RESOURCES

Janet L. Ronald, Deputy Counsel
Legal Division
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004

Re: *Little Colorado Adjudication*

Dear Ms. Ronald:

I enclose information that is responsive to your letter of April 15, 2005 to Vanessa Boyd Willard of the U.S. Department of Justice requesting information relevant to the Hopi Tribe's claims. Specifically, information related to Item Nos. 6, 7, 9 and 12 in your letter is included.

For Item 6 the following is enclosed: 1) maps for the 1882 and 1934 areas showing the location of active municipal wells, 2) tables of supplemental information for both areas, 3) water quality data for several of the wells and Moenkopi spring, and 4) maps of the existing water distribution systems.

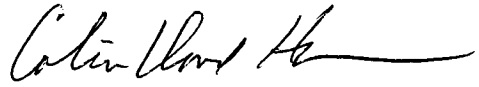
Regarding Item 9, the Tribe's claim for water for the recreational lakes is based principally on the Little Colorado River Basin Working Papers published by the Soil Conservation Service in 1980, a copy of which is enclosed.

With respect to Item 12, the USGS information in Table 3 of Open File Report 2005-1080 contains information on municipal withdrawals. The full report is available at http://pubs.usgs.gov/of/2005/1080/pdf/TruiniOFR2005-1080.pdf. The supplemental information on pumping rate provided in response to Item 6 is also relevant here.

We are continuing to gather information that may be responsive to your request and will forward such information as it becomes available.

Thank you.

Sincerely,



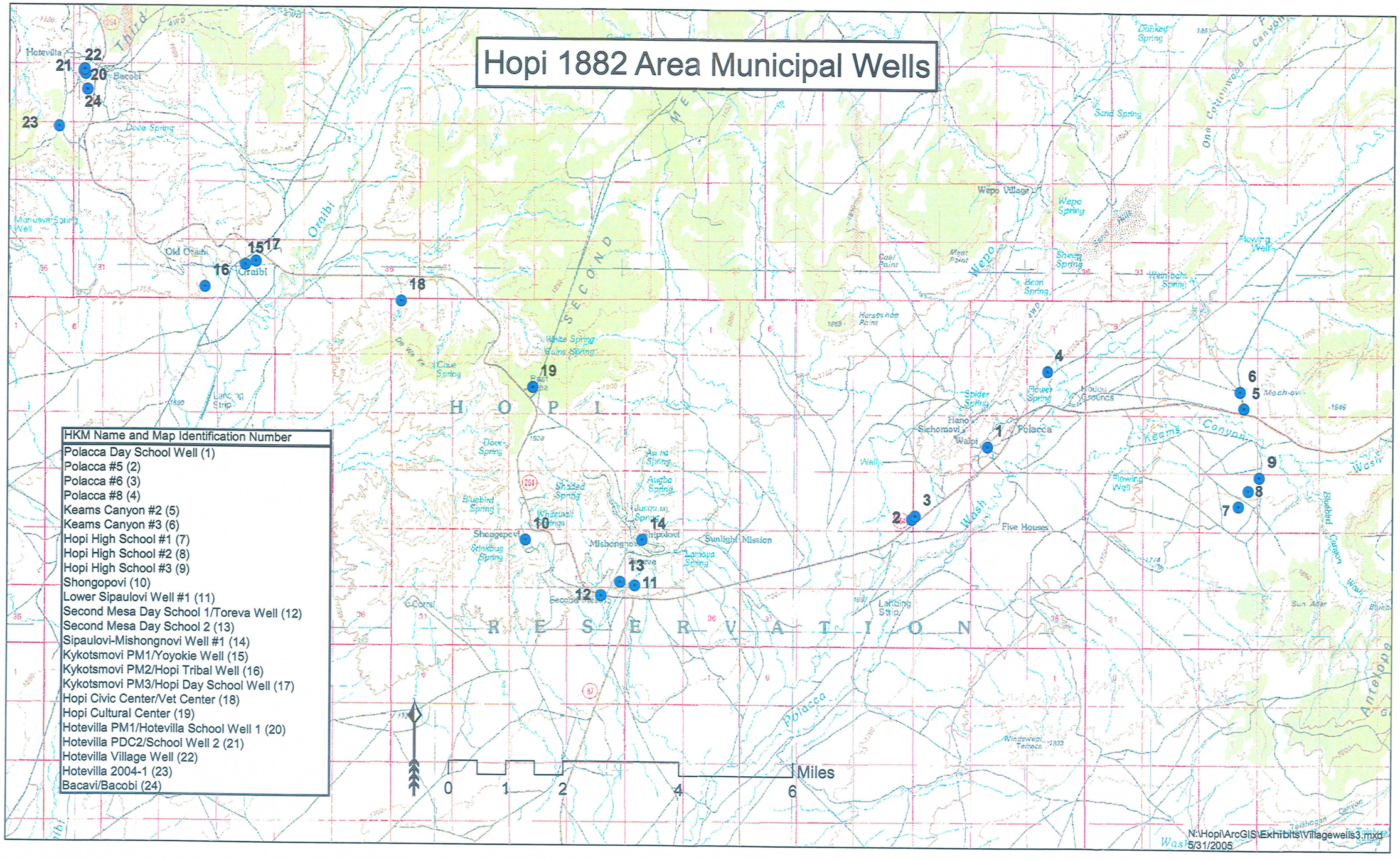
Colin Cloud Hampson

cc: Vanessa Boyd Willard, U.S. Department of Justice
(w/o encl.): Scott Canty, General Counsel, Hopi Tribe

212corr-

ITEM
#6

Hopi 1882 Area Municipal Wells



Supplemental Information For Hopi Tribe 1882 Area Municipal Water Wells

USGS Site No.	HKM Name and Map ID	Drilled Depth (bgs)	Well Depth (bgs)	Completion Date	Aquifer and Depth to Top	Static Water Level (bgs)	Date SWL Measured	Log Available	Pump Rate (gpm)	Pump Rate Date	Drawdown/Pumping Depth (bgs)	Water Quality Data Available	Use
354950110231501	Polacca Day School Well (1)	1,250	1,250		N	275	01/08/1966		50	10/14/1993		Y	M
354845110243801	Polacca #5 (2)	915	915	06/18/1986	one(USGS)	268	01/01/1998	Y				Y	M
354848110243401	Polacca #6 (3)	915	915	06/18/1986	one(USGS)	248	11/01/1998	Y	85	08/23/1995		Y	M
355058110220401	Polacca #8 (4)				N							Y	M
355023110182701	Keams Canyon #2 (5)	1,106 (?)	1,106	05/01/1970	N/900	497.6	06/09/2004	Y	66	07/31/2003	-188 feet(drawdown)	Y	M
355034110183001	Keams Canyon #3 (6)	1,090 (?)	1,090	01/01/1976	N/930	474	01/01/2002	y	82	07/31/2003			M
354856110183201	Hopi High School #1 (7)	925	925		N	471	07/16/1988		64	07/31/2003	-48 feet(drawdown)		M
354910110182201	Hopi High School #2 (8)	1,088	918		N	428	11/17/1984		64	07/31/2003	-364 feet(drawdown)	Y	M
354923110180901	Hopi High School #3 (9)	1,048	1,048	01/01/1985	N/848	407		Y	95	07/31/2003	-214 feet(drawdown)		M
354826110314401	Shongopovi (10)		1,530	02/22/1969	N/1322(?)	995	03/01/1970	Y	64	08/12/2003		Y	M
354742110294701	Lower Sipaulovi Well #1 (11)	1,033	1,033		N/755(?)			Y	105	02/13/1992		Y	M
354750110300101	Second Mesa Day School 1/Toreva Well (12)	860 (?)	850		N							Y	M
354749110300101	Second Mesa Day School 2 (13)	1090(?)	1090	10/01/1968	N/720	376	10/10/1968		67	07/31/2003		Y	M
354827110293701	Sipaulovi-Mishongnovi Well #1 (14)	1,442	1,442	07/07/1979	N/1170	777	06/27/1979	Y	41	07/31/2003	-169 feet (drawdown)	Y	M
355230110365801	Kykotsmovi PM1/Yoyokie Well (15)	995	995	02/20/1967	N/880	213.1	06/09/2004	Y				Y	M
355215110375001	Kykotsmovi PM2/Hopi Tribal Well (16)	1,160	1,160	10/14/1977	N/890	353	04/20/2001	Y	82	07/23/2003		Y	M
355236110364501	Kykotsmovi PM3/Hopi Day School Well (17)	1,220	1,220	08/07/1968	N/840	245.2	06/09/2004		138	07/23/2003		Y	M
355200110340701	Hopi Civic Center/Vet Center (18)	1,075	1,028	09/01/1977	N				55	08/07/2003		Y	M
355041110313701	Hopi Cultural Center (19)	1,600	1,600	07/10/1969	N(?)	863	10/07/1969	Y	49	08/07/2003	-77 feet(drawdown)	Y	M
355518110400301	Hotevilla PM1/Hotevilla School Well 1 (20)	1757 (?)	1,757	06/01/1957	N/1,450	951	07/01/1987		42	07/31/2003		Y	M
355521110400501	Hotevilla PDC2/School Well 2 (21)		1800	03/01/1970	N	935	11/15/1978		88		-19.2 (drawdown)	Y	M
355526110395601	Hotevilla Village Well (22)	1840	1819	05/06/1994	N/1,420	910	05/06/1994		47	03/01/2003		Y	M
None Assigned	Hotevilla 2004-1 (23)	1935	1870	04/26/2004	N/1410	1021	04/20/2004	Y	100		1071.9		M
355507110395201	Bacavi/Bacobi (24)	1,780 (?)	1,780	01/01/1992		920	07/27/1992		68	08/13/2003		Y	M

Notes: 1/ Information compiled from USGS Ground Water Site Inventory and Open-File Report 03-503, Indian Health Service drawings and files, EPA Sanitary Surveys. 2/ bgs is below ground surface.

#1

· Resources

Data Category: Water Quality | Geographic Area: United States | go

ıter Quality Samples for the Nation

ɜ 354950110231501 06 094-07.75X11.70

ıvailable data for this site Water-Quality: Discrete samples GO

jo County, Arizona
ɔlogic Unit Code 15020012
ıde 35°49'50", Longitude 110°23'13" NAD27
datum 5,768.00 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

AMPLE ıTETIME	MEDIUM CODE	Flow rate, instan-taneous gal/min (00059)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorp-tion ratio (00931)	Potas-sium, water, fltrd, mg/L (00935)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluor-ide, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrate water unfltrd mg/L (71850)	Pump or flow period prior to sam-pling, minutes (72004)
-08-11 00:00	6		733	9.4				4	1.60	.00				32.0	20.0	.70			.0				
-07-07 00:00	6		760	9.2				5	20.0	M	110	34	M	33.0	16.0	.50			700			.25	
-11-23 00:00	6		705	9.3				2	.60	< .10	170	60	1.00	26.0	23.0	.60		< 10		< 10		.10	
-01-18 09:10	6	48.0	830	9.6	9.6		< .100		.60	.080	170		.60	30.0	25	.6			8		424		> 60
-01-22 10:45	6		740	9.4	9.5	< .010	< .100		.64	.110	170		.60	29.0	27.0	.6	16		4		431		570
-10-14 14:05	6	50.0	755	9.5	9.5	< .010	< .050		.62	.070	170		.30	27.0	23.0	.6	21		6		422		120
-12-08 08:40	6		753	9.6	9.5	< .010	< .05		.56	.070	170		.50	25.0	19.0	.6			< 3		448		
-08-16 15:35	6																						

Water Quality Remark Code	Description
	Actual value is known to be greater than the value shown.
	Presence of material verified but not quantified

USGS

Vater Resources

#2

Data Category: Water Quality | Geographic Area: United States | go

Vater Quality Samples for the Nation

SGS 354845110243801 06 094-9.02x12.92

Available data for this site: Water-Quality: Discrete samples | GO

Iavajo County, Arizona
Iydrologic Unit Code 15020013
atitude 35°48'45", Longitude 110°24'38" NAD27
Gage datum 5,620. feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Agency col-lecting sample, code (00027)	Agency ana-lyzing sample, code (00028)	Rn-222 2-sigma water unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
2000-08-16 15:55	6	1028	80020	38	480

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Explanation of terms

er Resources

#3

Data Category: Water Quality | Geographic Area: United States | go

ater Quality Samples for the Nation

S 354848110243401 06 094-08.95x12.85

Available data for this site: Water-Quality: Discrete samples | GO

ajo County, Arizona
rologic Unit Code 15020013
:ude 35°48'48", Longitude 110°24'34" NAD27
e datum 5,620 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE ATETIME	MEDIUM CODE	Flow rate, instan-taneous gal/min (00059)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluor-ide, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Alpha radio-activty water, fltrd, Th-230, pCi/L (04126)	Residue on evap. at 180degC wat flt mg/L (70300)	Mercury water, fltrd, ug/L (71890)	Pump or flov period prior to sam pling, minute (72004
4-07-25 16:20	6	60.0	1470	9.3	9.0	< .010	< .050	2.10	.440	300	1.00	160	130	1.6	13	< 3	20	2.0	3	3		< .1	45
5-06-28 16:30	6		2750	8.4	8.3	< .010	< .05	5.9	1.3	640	2.40	460	380	3.5		60					1740		
5-08-23 09:30	6	85.0	2920	8.4	8.4			5.4	1.2	650	1.90	450	400	3.1	< 1	20	< 2.00	10.0			1740		72
8-08-28 09:00	6		777	9.6	9.5			.54	.068	169	.56	26.1	18.4	.6	20	< 10	< 100	< 4.0				< .1	

Water Quality Remark Code	Description

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NWISWeb Support Team

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USGS

Water Resources

#3

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 354848110243401 06 094-08.95x12.85

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°48'48", Longitude 110°24'34"
NAD27
Gage datum 5,620 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)
1994-07-25 16:20	6	60.0	450
1995-08-23 09:30	6	85.0	720

Questions about data Water Webserver Team
Feedback on this website NWIS Web Support Team

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Technical Services Of Arizona, Inc.

Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

#3

Polacca #6
(HKM ID #3)

First Mesa Consolidated
Village
P.O. Box 260
Polacca, AZ 86042
Attn: Troy Nash

Received: 11/27/01
Reported: 12/19/01
Invoice No: 081188

Project Name: First Mesa Water Dept.

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Matrix:	Drinking Water				
Sample No:	0111-08963-002		Time Sampled:	10:00	
Sample ID:	Well #6		Date Sampled:	11/26/2001	
Antimony	EPA 200.9	<0.004	mg/L	0.004	11/30/01
Arsenic	EPA 200.9	0.017	mg/L	0.002	11/26/01
Barium	EPA 200.7	<0.01	mg/L	0.01	11/29/01
Beryllium	EPA 200.7	<0.002	mg/L	0.002	11/29/01
Cadmium	EPA 200.9	<0.0002	mg/L	0.0002	11/26/01
Chromium	EPA 200.7	<0.005	mg/L	0.005	11/29/01
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	11/29/01
Nickel	EPA 200.7	<0.02	mg/L	0.02	11/29/01
Selenium	EPA 200.9	<0.005	mg/L	0.005	11/26/01
Thallium	EPA 200.9	<0.001	mg/L	0.001	11/30/01
Cyanide, Total	SM4500 CNE	<0.01	mg/L	0.01	11/29/01
Gross Alpha	EPA 900.0-02	3.0 +/- 0.8	pCi/L		11/30/01
1,2-Dibromoethane (EDB)	EPA 504.1	<0.00005	mg/L	0.00005	12/03/01
1,2-Dibromo-3-Chloropropane	EPA 504.1	<0.0002	mg/L	0.0002	12/03/01
Volatile Organics by GC/MS	EPA 524.2				11/29/01
Chloromethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Vinyl Chloride	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Bromomethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Chloroethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
1,1-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Dichloromethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
MTBE	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
trans 1,2-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
1,1-Dichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
cis 1,2-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
2,2-Dichloropropane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Chloroform	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
1,1,1-Trichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
1,1-Dichloropropene	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Carbontetrachloride	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
1,2-Dichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01
Benzene	EPA 524.2	<0.0005	mg/L	0.0005	11/29/01

ater Resources

#4

Data Category: Water Quality | Geographic Area: United States | go

'ater Quality Samples for the Nation

GS 355058110220401 A-28-18 11AAD

Available data for this site: Water-Quality: Discrete samples | GO

vajo County, Arizona
drologic Unit Code 15020013
itude 35°50'58", Longitude 110°22'04" NAD27
ge datum 5,740.0 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	pH, water, unfltrd lab, std units (00403)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)
98-08-19 07:30	6	7.9	40.7	15.8	650	6.56	286	831	2.5	< 1	< 30	< 300	3230

Water Quality Remark Code	Description

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NWISWeb Support Team

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Explanation of terms

LEGEND

Technical Services Of Arizona, Inc.

#4

17631 North 25th Avenue
Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

Polacca #2

First Mesa Consolidated
Village
P.O. Box 260
Polacca, AZ 86042
Attn: Cheryl Torivio

HKM ID#5

Received: 6/26/02
Reported: 7/18/02
Invoice No: 087265

Project Name: Groundwater Analysis

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Matrix:	Groundwater				
Sample No:	0206-05295-001		Time Sampled:	8:00	
Sample ID:	First Mesa (Well #8)		Date Sampled:	6/26/2002	
Metals Digestion for ICP	EPA 200.7				6/27/02
Metals Digestion for GFAA	EPA 200.9				6/27/02
Calcium	EPA 200.7	<1.	mg/L	1.	7/11/02
Iron	EPA 200.7	0.05	mg/L	0.02	7/11/02
Magnesium	EPA 200.7	<1.	mg/L	1.	7/11/02
Manganese	EPA 200.7	<0.02	mg/L	0.02	7/11/02
Silica	EPA 200.7	6.9	mg/L	0.1	7/11/02
Sodium	EPA 200.7	161.	mg/L	20	7/16/02
Hardness, Total (Ca & Mg)	SM 2340B	<7.	mg/L	7.	7/11/02
Total Phosphorous as P	EPA 365.2	<0.05	mg/L	0.05	7/02/02
Total Phosphate	CALCULATION	<0.15	mg/L	0.15	7/02/02
Sulfate	EPA 375.4	17.2	mg/L	5.0	6/28/02
Chloride	SM 4500-CL B	19.	mg/L	5.	6/28/02
pH	EPA 150.1	9.1	Std Unit		6/27/02
Total Alkalinity (as CaCO3)	SM 2320B	349.	mg/L	10.	6/27/02
Total Organic Carbon	SM 5310C	3.3	mg/L	0.7	7/02/02

TOC analyzed by ATEL, Marion OH, #AZ0071.

Elizabeth A. Maki

Authorized Signatory

Resources

Data Category: Water Quality | Geographic Area: United States | go

#5

ıter Quality Samples for the Nation

355023110182701 06 094-03.23X11.05 Keams Canyon PM2

ıvailable data for this site Water-Quality: Discrete samples GO

o County, Arizona
ɔlogic Unit Code 15020012
ıde 35°50'25", Longitude 110°18'27" NAD27
datum 5,809 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

AMPLE ıTETIME	MEDIUM CODE	Sampling depth, feet (00003)	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)
-05-14 00:00	6	520		2090	8.5			8.00	4.90	470	32	M	83.0	490	4.80		1200					
-11-23 00:00	6			937	8.8			.80	.10	240	67	1.10	91.0	46.0	1.40							
-09-01 08:30	6			1010	9.0	9.3	< .100	.82	.25	240	64	.80	94.0	35.0	1.40		< 3	< 1				
-08-23 11:30	6			1120	9.1	8.9	< .100	.99	.14	250		1.00	120	42.0	1.50		40	< 1				
-08-13 17:00	6			1060	9.3	9.2	< .100	.90	.20	240		.70	96.0	36.0	1.30		M		578			
-11-15 11:30	6		73.0	1040	9.1	9.2	< .100	.86	.240	230		.80	97.0	34.0	1.3		7		591	1080	1110.00	387.60
-01-22 11:50	6		66.0	1020	9.4	9.3	< .100	.88	.110	230		.80	94.0	34	1.3		9		600	138		
-02-12 15:55	6		93.0	1010	9.3	9.3	< .050	.82	.150	220		.80	93.0	36.0	1.3	44	< 3		570	90	906.00	
-02-04 11:00	6		77.0	1040	9.2	9.3	< .050	.80	.150	230		.80	92.0	36.0	1.5	46	< 3		590			
-11-29 15:00	6			975	9.4	9.0	< .05	.74	.140	210		.80	86.0	32.0	1.3		4		562			
2-07 10:30	6			1010	9.3	9.2	< .05	.85	.170	230		.80	99.0	32.0	1.5		< 3		606			
-12-17 13:45	6					9.2	< .05	.78	.150	220		.80	96.0	34.0	1.4	27	4		596			
-12-17 13:50	6			1030	9.2																	

#5

-12-09 16:15	6		50.0	1070	9.2	9.2	< .05	.79	.148	219		.69	95.8	33.5	1.4	42	< 10		590			
-12-04 09:15	6		35.0	908	9.4	9.3	< .05	.70	.137	212		.65	78.1	28.5	1.2	36	< 10		558			

Water Quality Remark Code	Description
	Presence of material verified but not quantified

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Explanation of terms

#6

ter Resources

Data Category: Water Quality | Geographic Area: United States | go

ater Quality Samples for the Nation

GS 355034110183001 06 094-03.27X10.80

Available data for this site: Water-Quality: Discrete samples | GO

ajo County, Arizona
drologic Unit Code 15020013
tude 35°50'40", Longitude 110°18'31" NAD27
e datum 5,806.00 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE ATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Gross alpha radioactivty wat flt U-nat, pCi/L (80030)	Gross beta radioactivty wat flt Sr/Y-90 pCi/L (80050)
5-01-22 00:00	6		940	9.3			6.00	7.30	200	31	2.00	71.0	36.0	1.10	34.0	M						
4-07-27 10:00	6	88.0	907	9.3	9.1	< .050	.67	.120	200		.60	61.0	26.0	1.0	38	4	< 10	< 1.0		20	14.0	2.9
2-04-01 15:15	6		870	9.3	9.4	< .05	.65	.120	201		.62	62.7	26.0	1.0	35.4	< 10			514			
3-04-30 12:10	6		881	9.3	9.2	< .06	.66	.118	210		.70	59.6	25.2	1.00	34.5	< 10			521	295		

Water Quality Remark Code	Description
	Presence of material verified but not quantified

ions about data
ack on this website
Quality Samples for USA: Sample Data
waterdata.usgs.gov/nwis/qwdata?

Water Webserver Team
NWISWeb Support Team

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Water Resources

Data Category: Water Quality | Geographic Area: United States | go

#8

Water Quality Samples for the Nation

USGS 354910110182201 06 094-03.14X12.41 Hopi High Sch.No. 2

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°49'11", Longitude 110°18'22" NAD27
Gage datum 5,883 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Pump or flow period prior to sampling, minutes (72004)	Depth of well, feet below LSD (72008)
1992-02-11 13:55	6	85.0	1790	8.8	8.9	< .050	2.10	.460	390	1.30	320	120	2.5	28	< 3	75	1088.00
1993-05-11 10:30	6	47.0	1850	8.6	8.8	< .050	2.00	.430	370	1.30	320	120	2.7	23	11	150	

Water Quality Remark Code	Description
<	

Questions about data
Feedback on this website
Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

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NWISWeb Support Team

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Explanation of terms

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1.23 0.98 nadww01

Water Resources

#10

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 354826110314401 06 095-01.65X13.35

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°48'26", Longitude 110°31'46" NAD27
Gage datum 6,360.00 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Gross alpha radioactivty wat flt U-nat, pCi/L (80030)	Gross beta radioactivty wat flt Sr/Y-90 pCi/L (80050)
1994-07-28 11:00	6	41.0	574	9.9	9.6	< .050	.46	.020	120	.30	7.80	19.0	.2	16	< 3	< 10	< 1.0	< .1	9.5	3.2
1994-08-27 11:00	6					< .050														

Water Quality Remark Code	Description
<	

Questions about data
Feedback on this website
Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

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Explanation of terms

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1.24 1 nadww01

#11

Water Resources

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 354742110294701 06 094-13.83X14.13

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°47'45", Longitude 110°29'45" NAD27
Gage datum 5,777 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Depth of well, feet below LSD (72008)
1992-02-13 12:35	6	105	615	9.7	9.7	< .050	.50	.060	140	.60	12.0	17.0	.4	24	< 3	354	80	1033.00
1996-12-16 16:30	6		600	9.7	9.7	< .05	.46	.040	130	.60	7.50	14.0	.3	15	< 3	364		

Water Quality Remark Code	Description
<	

Questions about data
Feedback on this website
Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

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MOHAVE ENVIRONMENTAL LABORATORY

1050 Highway 95 • Bullhead City, AZ 86429

Phone: (928) 754-8101 • Toll Free: 888-777-4635 • Fax: (928) 754-8103

HKM#11 - #11

RECEIVED SEP 24 2002 Village of Sipaulovi

Customer Name: Sipaulovi Water Association
Lab ID: 5847
Sample Type: Drinking Water
Sampled By: B. Roland

Date Received: 07/31/02 10:15
Date Reported: 09/04/02

Analytical Results

Parameter	Method	Result	Units	Detect Limit	Date	Analyst
5847-02						
Sample Date: 07/30/02 8:00						
Wellhead						
0400107						
Fluoride	EPA 300.0	0.3	mg/L	0.2	8/15/2002	CM
METALS, TOTAL						
Antimony, Total	EPA 200.9	<0.002	mg/L	0.0025	9/4/2002	CM
Arsenic, Total	EPA 200.9	0.015	mg/L	0.005	8/24/2002	CM
Barium, Total	M3111D	<0.20	mg/L	0.2	8/17/2002	CM
Beryllium, Total	EPA 200.9	<0.0002	mg/L	0.0002	8/14/2002	CM
Cadmium, Total	EPA 200.9	<0.0003	mg/L	0.0003	8/15/2002	CM
Chromium, Total	EPA 200.9	<0.002	mg/L	0.002	8/17/2002	CM
Mercury, Total	SM3112B	<0.0002	mg/L	0.0002	8/23/2002	CM
Selenium, Total	EPA 200.9	<0.005	mg/L	0.005	8/26/2002	CM
Sodium, Total	SM3111B	135.94	mg/L	1	8/17/2002	CM
Thallium, Total	EPA 200.9	<0.001	mg/L	0.001	8/16/2002	CM
Nitrogen, Nitrate	EPA 300.0	<0.10	mg/L	0.1	7/31/2002	CM
Nitrogen, Nitrite	EPA 300.0	<0.10	mg/L	0.1	7/31/2002	CM
5847-03						
Sample Date: 07/30/02 8:05						
Jewel Wauneka Sink						
0400107						
LEAD & COPPER						
Lead, Total	EPA 200.9	<0.002	mg/L	0.002	8/22/2002	CM
Copper, Total	SM3111B	<0.02	mg/L	0.02	8/8/2002	CM
Turbidity	SM2130	<1.0	NTU's	1	8/7/2002	CM

'ater Resources

#12

Data Category: Water Quality

Geographic Area: Arizona go

Vater Quality Samples for Arizona

SGS 354750110300101 S M PD&C 1 0609500011404

Available data for this site Water-Quality: Discrete samples GO

avajo County, Arizona
ydrologic Unit Code 15020013
atitude 35°47'36", Longitude 110°30'22" NAD27
age datum 5,686 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrate water unfltrd mg/L (71850)
958-04-02 00:00	6		10.2						9.0		M		M		
968-04-05 00:00	6	650		1.00	.61	140	27	M	11.0	14.0	.20	70		342	M

Water Quality Remark Code	Description
[	Presence of material verified but not quantified

Water Resources

#13

Data Category: Water Quality | Geographic Area: Arizona | go

Water Quality Samples for Arizona

USGS 354749110300101 06 095-00.01X14.05 Second Mesa PM2

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°47'48", Longitude 110°30'01" NAD27
Gage datum 5,777 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Number of sampling points, count (00063)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Well purging condition, code (84143)
1968-10-23 00:00	6			9.9			2.00	M	150	7	1.00	14.0	35.0	.22		480					
1990-01-18 11:05	6	40.0		9.9	9.5	< .100	.48	< .020	140		.40	6.5	16	.2		4			364	105	
1991-01-24 10:45	6	38.0		9.7	9.7	< .100	.50	.010	140		.40	10.0	15.0	.3	15	< 3			292		
1993-05-11 14:40	6	58.0		9.5	9.5	< .050	.47	.030	130		.40	7.5	15.0	.3	17	< 3			350	280	
1994-11-29 12:30	6			10.0	9.5	< .05	.51	.040	130		.40	7.60	15.0	.3		6			342		
1995-08-28 17:15	6	59.0		10.1	9.7		.47	.030	140		.30	7.20	14.0	.3	18	3	<1.00	< 1.0	357	120	
1997-12-11 13:30	6	56.0		9.9	9.7	< .05	.45	.027	134		.35	7.08	14.4	.3	15	< 10			356		
2001-06-11 14:00	6	57.0		9.6	9.8	< .05	.42	.017	130		.38	7.11	14.9	.3	16.6	< 10			352	3600	
2002-04-03 14:15	6		1	9.6	9.9	< .05	.42	.030	130		.42	7.53	14.4	.3	17.5	< 10			357		
2003-04-30 14:15	6			9.6	9.7	< .06	.43	.029	134		.47	6.26	14.2	.31	16.5	< 10			359	300	160

Water Quality Remark Code	Description
<	
M	Presence of material verified but not quantified

Questions about data
Feedback on this website
Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

Arizona NWISWeb Data Inquiries
Arizona NWISWeb Maintainer

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Explanation of terms

L E G E N D
Technical Services Of Arizona, Inc.

17631 North 25th Avenue
Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

#13

Nortest Analytical
2400 E. Huntington Dr.
Flagstaff, AZ 86004

Received: 1/31/02
Reported: 2/22/02
Invoice No: 082908

Attn: Georgia Howeth

Project Name: BIA Fac Mgmt (Second Mesa)

Matrix: Drinking Water
Sample No: 0201-00859-001
Sample ID: SMDS Well (520093) (HKM 13)

Time Sampled: 12:56
Date Sampled: 1/30/2002

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Antimony	EPA 200.9	<0.004	mg/L	0.004	2/05/02
Arsenic	EPA 200.9	0.018	mg/L	0.002	2/04/02
Barium	EPA 200.7	<0.01	mg/L	0.01	2/13/02
Beryllium	EPA 200.7	<0.002	mg/L	0.002	2/13/02
Cadmium	EPA 200.9	<0.0002	mg/L	0.0002	2/04/02
Chromium	EPA 200.7	<0.005	mg/L	0.005	2/13/02
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	2/06/02
Nickel	EPA 200.7	<0.02	mg/L	0.02	2/13/02
Selenium	EPA 200.9	<0.005	mg/L	0.005	2/04/02
Thallium	EPA 200.9	<0.001	mg/L	0.001	2/05/02
Cyanide, Total	SM4500 CNE	<0.01	mg/L	0.01	2/07/02
Fluoride	SM 4500-FC	0.3	mg/L	0.1	2/01/02
Nitrate plus Nitrite	SM 4500-NO3 F	<0.1	mg/L	0.1	2/01/02
Nitrogen as Nitrite	SM4500NO2B	<0.1	mg/L	0.1	1/31/02
Nitrogen as Nitrate	CALC.	<0.1	mg/L	0.1	1/31/02
Gross Alpha	EPA 600/00-02	8.3 +/- 1.3			1/30/02
Chloromethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Vinyl Chloride	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Bromomethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Chloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Dichloromethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
MTBE	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
trans 1,2-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1-Dichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
cis 1,2-Dichloroethylene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
2,2-Dichloropropane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Chloroform	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1,1-Trichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1-Dichloropropene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Carbontetrachloride	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,2-Dichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02

L E G E N D

Technical Services Of Arizona, Inc.

#13

17631 North 25th Avenue
Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

Matrix: Drinking Water
Sample No: 0201-00859-001
Sample ID: SMDS Well (520093)

Time Sampled: 12:56
Date Sampled: 1/30/2002

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Benzene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Trichloroethylene (TCE)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,2-Dichloropropane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Dibromomethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Bromodichloromethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
cis 1,3-Dichloropropene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Toluene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
trans-1,3-Dichloropropene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1,2-Trichloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,3-Dichloropropane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Tetrachloroethylene (PCE)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Dibromochloromethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Chlorobenzene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Ethylbenzene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Styrene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Bromoform	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,2,3-Trichloropropane	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Bromobenzene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
2-Chlorotoluene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
4-Chlorotoluene (para)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,3-Dichlorobenzene (meta)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,4-Dichlorobenzene (para)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,2-Dichlorobenzene (ortho)	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
1,2,4-Trichlorobenzene	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Xylenes, Total	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Total Trihalomethanes	EPA 524.2	<0.0005	mg/L	0.0005	2/07/02
Surrogate:	EPA 524.2				2/07/02
***Pentafluorobenzene	EPA 524.2	96	% Recovery		2/07/02
***4-Bromofluorobenzene	EPA 524.2	86	% Recovery		2/07/02
***1,2-dichlorobenzene-d4	EPA 524.2	84	% Recovery		2/07/02
Diquat	EPA 549.2	<0.01	mg/L	0.01	2/05/02
Extraction	EPA 549.2				2/04/02
Radium 226	EPA 903.1	0.2 +/- 0.2	pCi/L		1/30/02

Radiochemistry performed by Radiation Safety, Chandler AZ, #AZ0462.
EPA 549 analyzed by Environmental Health Labs, South Bend IN, ADHS No. AZ#0432.

#13

L E G E N D

Technical Services Of Arizona, Inc.

17631 North 25th Avenue
Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED

Elizabeth A. Maki

Authorized Signatory

Water Resources

#14

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 354827110293701 06-094-13.72 X 13.27

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020013
Latitude 35°48'26", Longitude 110°29'37" NAD27
Gage datum 6,179 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Alpha radioactivty water, fltrd, Th-230, pCi/L (04126)	Mercury water, fltrd, ug/L (71890)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)
1994-07-27 14:05	6	9.5	< .050	.48	.040	130	.40	8.30	15.0	.3	18	< 3	< 10	< 1.0	6	6	< .1	617

Water Quality Remark Code	Description
<	

Questions about data
Feedback on this website
Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

Water Webserver Team
NWISWeb Support Team

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1.23 1 nadww01

Water Resources

#15

Data Category: Water Quality
Geographic Area: United States
go

Water Quality Samples for the Nation

USGS 355230110365801 06 095-06.50X08.61

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020012
Latitude 35°52'32", Longitude 110°36'57" NAD27
Gage datum 5,657. feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	pH, water, unfltrd field, std units (00400)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)
1967-01-00 00:00	6		140	3.40
1967-02-00 00:00	6		35.0	.20
1967-02-20 00:00	6	9.3	50.0	1.00

Questions about data Water Webserver Team
Feedback on this website NWISWeb Support Team

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Explanation of terms

Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

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1.22 0.98 nadww01

Water Resources

Data Category: Water Quality | Geographic Area: Arizona | go

#16

Water Quality Samples for Arizona

USGS 355215110375001 06 095-07.28X08.90 Kykotsmovi PM2

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020012
Latitude 35°52'12", Longitude 110°37'42" NAD27
Gage datum 5,760.00 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Number of sampling points, count (00063)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)
1988-11-15 13:50	6	90.0		9.6	9.8	1.20	.51	.090	81.0	.50	3.2	8.6	.2		8	212	240	1150.00	321.00
1990-01-17 12:00	6	88.0		10.0	9.5	1.20	.47	.060	78.0	.40	3.2	9	< .1		5	255	405		
1991-02-21 11:00	6	90.0		9.9	8.3	1.20	.51	.100	80.0	.40	4.40	7.9	< .1	3	< 3	203	240		
1992-12-10 11:30	6	91.0		9.7	9.9	1.30	.46	.020	79.0	.40	3.3	8.4	.2	5	< 3	212	132	1155.00	
1994-11-28 12:00	6			10.0	9.6	1.10	.51	.020	76.0	.60	3.60	8.5	.3		4	212			
1995-12-07 12:20	6			9.8	9.8	1.20	.45	.010	80.0	.40	3.10	6.2	.2		< 3	224	260		
1996-12-18 11:05	6			9.9	9.5	1.20	.49	.010	82.0	.50	3.30	8.5	.7	4	< 3	224			
1997-12-12 11:15	6	79.0		10.1	9.8	1.23	.48	.015	80.8	.98	3.02	8.0	.2	5	< 10	222			
1998-12-03 09:30	6	77.0		9.9	9.8	1.17	.45	.015	78.8	.34	3.33	7.3	.2	5	< 10	223			
1999-12-06 14:00	6			9.7	9.8	1.17	.50	.032	78.2	.35	3.50	7.9	.2	5.2	< 10	221			
2001-04-06 09:30	6			9.7	9.6	1.17	.49	.013	79.3	.36	3.48	8.2	.2	4.9	< 10	230			
2002-04-03 09:15	6		1	9.7	9.9	1.15	.44	.014	78.1	.37	3.39	7.9	.2	5.4	< 10	215			
2003-05-02 11:25	6			9.7	9.7	1.22	.49	.014	84.8	.39	3.49	7.8	< .17	5.3	< 10	219	190		

Water Quality Remark Code	Description
<	

#16

MOHAVE ENVIRONMENTAL LABORATORY

1050 Highway 95 • Bullhead City, AZ 86429

Phone: (928) 754-8101 • Toll Free: 888-777-4635 • Fax: (928) 754-8103

Customer Name: Kykotsmovi Water Association
Lab ID: 6122
Sample Type: Drinking Water
Sampled By: S. Sekaguaptewan

Date Received: 09/25/02 10:15
Date Reported: 10/11/02

Analytical Results

Parameter	Method	Result	Units	Detect Limit	Date	Analyst
6122-01						
Sample Date: 09/24/02 9:38						
Well # 2 (SHKM 17)						
0400105						
Fluoride	EPA 300.0	0.2	mg/L	0.2	9/25/2002	CM
METALS, TOTAL						
Antimony, Total	EPA 200.9	<0.002	mg/L	0.0025	10/8/2002	CM
Arsenic, Total	EPA 200.9	<0.005	mg/L	0.005	10/7/2002	CM
Barium, Total	M3111D	<0.20	mg/L	0.2	10/2/2002	CM
Beryllium, Total	EPA 200.9	<0.0002	mg/L	0.0002	10/7/2002	CM
Cadmium, Total	EPA 200.9	<0.0003	mg/L	0.0003	10/9/2002	CM
Chromium, Total	EPA 200.9	0.006	mg/L	0.002	10/1/2002	CM
Nickel, Total	SM3111B	<0.010	mg/L	0.01	10/10/2002	CM
Selenium, Total	EPA 200.9	<0.005	mg/L	0.005	10/8/2002	CM
Sodium, Total	SM3111B	80.50	mg/L	1	10/10/2002	CM
Thallium, Total	EPA 200.9	<0.001	mg/L	0.001	10/9/2002	CM
Turbidity	SM2130	0.290	NTU's		9/26/2002	CM
Nitrogen, Nitrate	EPA 300.0	1.18	mg/L	0.1	9/25/2002	CM
Nitrogen, Nitrite	EPA 300.0	<0.10	mg/L	0.1	9/25/2002	CM
Sulfate	EPA 300.0	8.1	mg/L	1	9/25/2002	CM

Received in lab @ 1 degrees C.

Christina Montoya
Lab Manager

Water Resources

Data Category: Water Quality | Geographic Area: Arizona | go

#17

Water Quality Samples for Arizona

USGS 355236110364501 06 095-06.34X08.54

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020012
Latitude 35°52'35", Longitude 110°36'45" NAD27
Gage datum 5,618. feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Pump or flow period prior to sampling, minutes (72004)	Gross alpha radioactivty wat flt U-nat, pCi/L (80030)	Gross beta radioactivty wat flt Sr/Y-90 pCi/L (80050)
1968-10-11 00:00	6		400	9.8		2.00	M	88.0	17	.40	3.6	39.0	.10		70						
1972-11-23 00:00	6		368	9.3		.40	< .10	84.0	37	.80	3.6	10.0	.20								
1982-07-29 13:30	6		385	9.5	.550	.43	.04	85.0	34	.40	4.0	10.0	.20		20		M				
1983-08-15 16:00	6		400	9.6	1.20	.50	.16	87.0		.50	4.1	9.8	.20		50		M				
1984-08-14 09:30	6		385	9.9	1.20	.43	.02	86.0		.40	4.0	9.9	.20		10						
1994-07-26 10:15	6	127	388	9.9	1.20	.34	.020	82.0		.30	4.70	9.0	.2	8	< 3	< 10	< 1.0	< .1	120	.8	.8
1998-12-03 11:00	6	120	341	9.9	1.19	.32	.014	80.8		.35	4.56	8.4	.2	6	< 10						
1999-12-06 11:30	6		340	9.7	1.21	.33	E .013	81.0		.35	4.32	9.1	.2	6.9	< 10						

Water Quality Remark Code	Description
<	
E	Estimated value
M	Presence of material verified but not quantified

Questions about data
Feedback on this website
Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

Arizona NWISWeb Data Inquiries
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MOHAVE ENVIRONMENTAL LABORATORY

1050 Highway 95 • Bullhead City, AZ 86429

Phone: (928) 754-8101 • Toll Free: 888-777-4635 • Fax: (928) 754-8103

#17

Customer Name: Kykotsmovi Water Association
Lab ID: 6121
Sample Type: Drinking Water
Sampled By:

Date Received: 09/25/02 10:15
Date Reported: 10/11/02

Analytical Results (HKM 17)

Parameter	Method	Result	Units	Detect Limit	Date	Analyst
6121-01						
Sample Date: 09/24/02 8:09						
Well # 3 HDS						
Fluoride	EPA 300.0	0.2	mg/L	0.2	9/25/2002	CM
METALS, TOTAL						
Antimony, Total	EPA 200.9	<0.002	mg/L	0.0025	10/8/2002	CM
Arsenic, Total	EPA 200.9	0.005	mg/L	0.005	10/7/2002	CM
Barium, Total	M3111D	<0.20	mg/L	0.2	10/2/2002	CM
Beryllium, Total	EPA 200.9	<0.0002	mg/L	0.0002	10/7/2002	CM
Cadmium, Total	EPA 200.9	<0.0003	mg/L	0.0003	10/9/2002	CM
Chromium, Total	EPA 200.9	0.005	mg/L	0.002	10/1/2002	CM
Nickel, Total	SM3111B	<0.010	mg/L	0.01	10/10/2002	CM
Selenium, Total	EPA 200.9	<0.005	mg/L	0.005	10/8/2002	CM
Sodium, Total	SM3111B	84.18	mg/L	1	10/10/2002	CM
Thallium, Total	EPA 200.9	<0.001	mg/L	0.001	10/9/2002	CM
Turbidity	SM2130	0.210	NTU's		9/26/2002	CM
Nitrogen, Nitrate	EPA 300.0	1.34	mg/L	0.1	9/25/2002	CM
Nitrogen, Nitrite	EPA 300.0	<0.10	mg/L	0.1	9/25/2002	CM
Sulfate	EPA 300.0	10.4	mg/L	1	9/25/2002	CM

Received in lab @ 1 degrees C.

Christina Montoya
Lab Manager

Water Resources

Data Category: Water Quality | Geographic Area: Arizona | go

#18

Water Quality Samples for Arizona

USGS 355200110340701 06 095-03.85X09.21

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020012
Latitude 35°52'00", Longitude 110°34'05" NAD27
Gage datum 5,836 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Mercury water, fltrd, ug/L (71890)	Gross beta radioactivty wat flt Sr/Y-90 pCi/L (80050)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)
1994-07-25 12:20	6	1.30	.28	.010	88.0	.30	3.60	8.8	.2	8	< 3	< 10	< 1.0	M	< .1	< .6	411

Water Quality Remark Code	Description
<	
M	Presence of material verified but not quantified

Questions about data
Feedback on this website
Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

Arizona NWISWeb Data Inquiries
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1988

#18

American Environmental Network (Arizona), Inc.

METALS RESULTS

ATI I.D. : 801400

CLIENT : HOPI TRIBE
PROJECT # : (NONE)
PROJECT NAME : HOPI CIVIC CENTER

DATE RECEIVED : 01/27/9
REPORT DATE : 04/24/9

PARAMETER	UNITS	01
SILVER (EPA 200.7/DW)	MG/L	<0.010
ARSENIC (200.9/DW)	MG/L	0.007
BARIUM (EPA 200.7/DW)	MG/L	<0.010
CALCIUM (EPA 200.7/DW)	MG/L	<0.5
CADMIUM (200.9/DW)	MG/L	<0.0005
CHROMIUM (EPA 200.7/DW)	MG/L	0.010
COPPER (EPA 200.7/DW)	MG/L	<0.010
IRON (EPA 200.7/DW)	MG/L	0.146
MERCURY (EPA 245.2/DW)	MG/L	<0.0002
MANGANESE (EPA 200.7/DW)	MG/L	<0.010
LEAD (200.9/DW)	MG/L	<0.002
SELENIUM (200.9/DW)	MG/L	<0.002
ZINC (EPA 200.7/DW)	MG/L	<0.050

#18

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 801400

CLIENT : HOPI TRIBE
PROJECT # : (NONE)
PROJECT NAME : HOPI CIVIC CENTER

DATE RECEIVED : 01/27/9
REPORT DATE : 04/24/9

PARAMETER	UNITS	01
CARBONATE (CACO3)	MG/L	110
BICARBONATE (CACO3)	MG/L	71
HYDROXIDE (CACO3)	MG/L	<1
TOTAL ALKALINITY (AS CACO3)	MG/L	181
CHLORIDE BY IC (EPA 300.0)	MG/L	3.2
FLUORIDE (SM 4500F-C)	MG/L	0.17
LANGELIER INDEX	UNITS	+0.89
NITRATE AS N (EPA 353.2)	MG/L	1.23
PH (EPA 150.1)	UNITS	10.0
T. DISSOLVED SOLIDS (SM 2540	MG/L	240
TURBIDITY (EPA 180.1)	NTU	0.31
TEMPERATURE (FIELD)	DEG. C	21
PH (FIELD)	UNITS	10.13

1988

USGS

Water Resources

#19

Data Category: Water Quality | Geographic Area: Arizona | go

Water Quality Samples for Arizona

USGS 355041110313701 06 095-01.53X10.75

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020012
Latitude 35°50'43", Longitude 110°31'38" NAD27
Gage datum 6,292.00 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Manganese, water, unfltrd recoverable, ug/L (01055)	Residue on evap. at 180degC wat flt mg/L (70300)	Pump or flow period prior to sampling, minutes (72004)	Depth of well, feet below LSD (72008)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)
1972-11-23 00:00	6		494	9.5			.40	< .10	120	52	.50	4.3	20.0	.20			< 10				
1992-02-20 16:40	6	42.0	521	9.8	9.9	< .050	.50	.060	110		.40	6.50	20.0	.3	13	5		289	115	1430.00	525

Water Quality Remark Code	Description
<	

Questions about data
Feedback on this website
Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

Arizona NWISWeb Data Inquiries
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1.25 1 nadww01

Data Category: Water Quality | Geographic Area: Arizona | go

Water Resources

Water Quality Samples for Arizona

USGS 355518110400301 06 095-09.41X05.40

#20

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020017
Latitude 35°55'22", Longitude 110°39'55" NAD27
Gage datum 6,357 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Number of sampling points, count (00063)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Residue on evap. at 180degC wat flt mg/L (70300)	Depth of well, feet below LSD (72008)
1957-08-07 00:00	6			9.7			1.00	1.00				18.0	.00		.0			
1957-10-00 00:00	6			7.7			9.50	2.40		6		10.0	.40					
1972-11-23 00:00	6			9.2			.60	< .10	66.0	23	.80	1.2	.20			< 10		
1990-01-17 14:25	6	50.0		9.9	9.3	1.10	.77	< .020	64.0		.60	1.6	< .1		10		192	
1991-01-24 14:00	6	45.0		9.6	9.7	1.10	.72	< .010	68.0		.50	.70	.1	3	< 3		208	
1993-10-14 10:00	6	42.0		9.7	9.7	1.10	.68	.020	67.0		.30	1.2	.1	3	6		180	1750.00
1994-11-28 16:10	6			10.0	9.5	1.10	.67	.030	64.0		.50	1.40	.1		6		166	
1995-12-07 14:45	6			9.8	9.7	1.10	.62	.030	67.0		.50	1.40	.2		4		196	
1996-12-17 12:40	6				9.7	1.10	.62	.020	64.0		.50	1.30	.2	2	< 3		186	
1996-12-17 12:58	6			9.8														
1997-12-16 13:50	6			9.6	9.7	1.08	1.30	.029	65.1		.46	1.48	.1	3	< 10		185	
2001-06-11 10:35	6	38.0		9.6	9.8	1.02	.65	.013	63.2		.43	1.43	E .1	3.2	< 10		170	
2002-04-02 14:15	6		1	9.4	9.9	1.05	.64	.025	66.5		.43	1.27	.2	3.4	< 10		182	
2003-04-29 14:55	6			9.7	9.7	1.12	.88	.040	64.1		.50	1.55	< .17	3.2	42		189	

Water Quality Remark Code	Description

#20

Water Resources

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 355518110400301 06 095-09.41X05.40

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020017
Latitude 35°55'22", Longitude 110°39'55" NAD27
Gage datum 6,357 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling method, code (82398)	Well purging condition, code (84143)
1990-01-17 14:25	6	50.0	300		
1991-01-24 14:00	6	45.0	360		
1993-10-14 10:00	6	42.0	106		
2001-06-11 10:35	6	38.0	120		
2002-04-02 14:15	6			70	
2003-04-29 14:55	6		240	70	160

Questions about data: Water Webserver Team
Feedback on this website: NWISWeb Support Team

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Explanation of terms

Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

Retrieved on 2005-04-28 10:00:00 EDT

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1.24 0.97 nadww01

#20

L E G E N D
Technical Services Of Arizona, Inc.

17631 North 25th Avenue
Phoenix, Arizona 85023
P (602)324-6100
F (602)324-6101
ADHS# AZ0004

Nortest Analytical
2400 E. Huntington Dr.
Flagstaff, AZ 86004

MAR 2 0 2002

Received: 1/31/02
Reported: 2/28/02
Invoice No: 083126

Attn: Georgia Howeth

HKM 20

Project Name: BIA Fac Mgmt (Hotevilla)

Matrix: Drinking Water
Sample No: 0201-00857-001
Sample ID: HBCS Well (520094) (HKM21) ?

Time Sampled: 13:43
Date Sampled: 1/30/2002

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Dioxin	EPA 1613	<5.0 X 10(-9)	mg/L		2/19/02
Antimony	EPA 200.9	<0.004	mg/L	0.004	2/05/02
Arsenic	EPA 200.9	0.003	mg/L	0.002	2/04/02
Barium	EPA 200.7	<0.01	mg/L	0.01	2/13/02
Beryllium	EPA 200.7	<0.002	mg/L	0.002	2/13/02
Cadmium	EPA 200.9	<0.0002	mg/L	0.0002	2/04/02
Chromium	EPA 200.7	<0.005	mg/L	0.005	2/13/02
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	2/06/02
Nickel	EPA 200.7	<0.02	mg/L	0.02	2/13/02
Selenium	EPA 200.9	<0.005	mg/L	0.005	2/04/02
Thallium	EPA 200.9	<0.001	mg/L	0.001	2/05/02
Cyanide, Total	SM4500 CNE	<0.01	mg/L	0.01	2/07/02
Fluoride	SM 4500-FC	0.1	mg/L	0.1	2/01/02
Nitrate plus Nitrite	SM 4500-NO3 F	1.1 M2	mg/L	0.1	2/01/02
Nitrogen as Nitrite	SM4500NO2B	<0.1	mg/L	0.1	1/31/02
Nitrogen as Nitrate	CALC.	1.1	mg/L		1/31/02
Gross Alpha	EPA 600/00-02	0.4 +/- 0.3	pCi/L		2/02/02
1,2-Dibromoethane (EDB)	EPA 504.1	<.00005	mg/L	.00005	2/05/02
1,2-Dibromo-3-Chloropropane	EPA 504.1	<0.0002	mg/L	0.0002	2/05/02
PCB 1016	EPA 505	<0.00008	mg/L	.00008	2/07/02
PCB 1221	EPA 505	<0.002	mg/L	0.002	2/07/02
PCB 1232	EPA 505	<0.0005	mg/L	0.0005	2/08/02
PCB 1242	EPA 505	<0.0003	mg/L	0.0003	2/08/02
PCB 1248	EPA 505	<0.0001	mg/L	.0001	2/08/02
PCB 1254	EPA 505	<0.0001	mg/L	0.0001	2/08/02
PCB 1260	EPA 505	<0.0002	mg/L	0.0002	2/08/02
Chlordane	EPA 505	<0.001	mg/L	0.001	2/08/02
Toxaphene	EPA 505	<0.0015	mg/L	0.0015	2/08/02
Extraction	EPA 505				2/07/02
2,4-D	EPA 515.3	<0.035	mg/L	0.035	2/08/02
Dalapon	EPA 515.3	<0.1	mg/L	0.1	2/08/02
Dicamba	EPA 515.3	<0.0001	mg/L	0.0001	2/08/02

Water Resources

#21

Data Category: Water Quality | Geographic Area: Arizona | go

Water Quality Samples for Arizona

USGS 355521110400501 HOTVL PDC2 0609509470536

Available data for this site: Water-Quality: Discrete samples | GO

Navajo County, Arizona
Hydrologic Unit Code 15020017
Latitude 35°55'25", Longitude 110°39'57" NAD27
Gage datum 6,351 feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Iron, water, fltrd, ug/L (01046)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrate water unfltrd mg/L (71850)
1970-06-05 00:00	6	310	9.5	2.00	M	68.0	13	1.60	M	12.0	.20	70	206	7.4

Water Quality Remark Code	Description
M	Presence of material verified but not quantified

Questions about data — Arizona NWISWeb Data Inquiries
Feedback on this website — Arizona NWISWeb Maintainer
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Explanation of terms

Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

http://nwis.waterdata.usgs.gov/az/nwis/qwdata?qw_count_nu=1&parameter_cd=00095&parameter_cd=00400&parameter_cd=00915&parameter_cd=00925&parameter_cd... 3/14/2005

Maps are generated by US Census Bureau TIGER Mapping Service.

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ck on this website — Arizona NWISWeb Maintainer
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Explanation of terms

Site Inventory for Arizona: Site Map
://waterdata.usgs.gov/az/nwis/nwismap?

rieved on 2005-03-14 11:37:15 EST

Water Resources

#22

Data Category: Water Quality | Geographic Area: Arizona | go

Water Quality Samples for Arizona

USGS 355526110395601 06 095-08.27X05.23

Available data for this site Water-Quality: Discrete samples GO

Navajo County, Arizona
Hydrologic Unit Code 15020017
Latitude 35°55'26", Longitude 110°39'56"
NAD27.
Gage datum 6,345. feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Rn-222 2-sigma water unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
2000-08-17 11:40	6	30	140

Questions about data Arizona NWISWeb Data Inquiries
Feedback on this website Arizona NWISWeb Maintainer

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Explanation of terms

Water Quality Samples for Arizona: Sample Data
http://waterdata.usgs.gov/az/nwis/qwdata?

Retrieved on 2005-03-16 16:50:15 EST

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USGS Water Resources of Arizona
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1.23 0.98 nadww01

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1120 SOUTH 27TH STREET • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489 • E-MAIL eli@energylab.com

LABORATORY REPORT #22

To : Morrison-Maierle, Inc.
Address : Mike Kaczmarek
P.O. Box 6147
Helena, MT 59604

Lab No. : 98-31184 km
Date : 6/10/98

WATER ANALYSIS REPORT

Hotevilla Well
Sample Date : 5/07/98
Sample Time :
Sample Received : 5/11/98

Constituents	Results	Units	Remarks	Ref.	Method	Analysis Date	Analysis Time	By
Potassium	<1	mg/l		EPA	200.7	5/12/98	1005	RL
Sodium	70	mg/l		EPA	200.7	5/12/98	1005	RL
Calcium	<1	mg/l		EPA	200.7	5/12/98	1005	RL
Magnesium	<1	mg/l		EPA	200.7	5/12/98	1005	RL
Sulfate	7	mg/l		EPA	300.0	5/13/98	0718	SK
Sulfate Reducing Bacteria	<1	col/ml		HACH		5/11/98	1200	N
Chloride	1	mg/l		EPA	300.0	5/13/98	0718	SK
Carbonate as CO3	38	mg/l		EPA	310.1	5/13/98	1008	SK
Bicarbonate as HCO3	89	mg/l		EPA	310.1	5/13/98	1008	SK
Alkalinity,Total as CaCO3,pH 4.5	136	mg/l		EPA	310.1	5/13/98	1008	SK
Nitrate plus Nitrite as N	1.14	mg/l		EPA	353.2	5/12/98	1611	BA
Sulfide ,	<0.04	mg/l		EPA	376.2	5/13/98	0830	FN
Iron Bacteria	Absent			BART		5/11/98	1200	N
Fluoride	0.28	mg/l		EPA	340.2	5/13/98	1330	DI
Iron,Total	<0.03	mg/l		EPA	200.7	5/12/98	1059	RL
Iron,Dissolved	0.11	mg/l		EPA	200.7	5/12/98	1005	RL
Manganese,Total	<0.01	mg/l		EPA	200.7	5/12/98	1059	RL
Ferrous Iron	<0.1	mg/l		SM	3500	5/11/98	1600	FN

#24

Resources

Data Category: Water Quality | Geographic Area: Arizona | go

ter Quality Samples for Arizona

355507110395201 A-29-16 18BDC

vailable data for this site Water-Quality: Discrete samples GO

) County, Arizona
logic Unit Code 15020017
le 35°55'08", Longitude 110°39'53" NAD27
latum 6,364. feet above sea level NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

AMPLE TETIME	MEDIUM CODE	pH, water, unfltrd lab, std units (00403)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluor-ide, water, fltrd, mg/L (00950)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Mercury water, fltrd, ug/L (71890)	Gross alpha radio-activty wat flt U-nat, pCi/L (80030)	Rn-222, water, unfltrd pCi/L (82303)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)
)7-26 13:15	6	9.5	1.20	.54	.020	65.0	.40	1.90	5.8	.2	4	4	< 10	< 1.0		< .1			308
)7-26 13:15	6														1		.9		
)9-20 15:09	6																	260	
)8-17 11:05	6																	290	

Water Quality Remark Code	Description

ons about data
ck on this website
Quality Samples for Arizona: Sample Data
aterdata.usgs.gov/az/nwis/qwdata?

d on 2005-03-15 08:58:39 EST
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Arizona NWISWeb Data Inquiries
Arizona NWISWeb Maintainer

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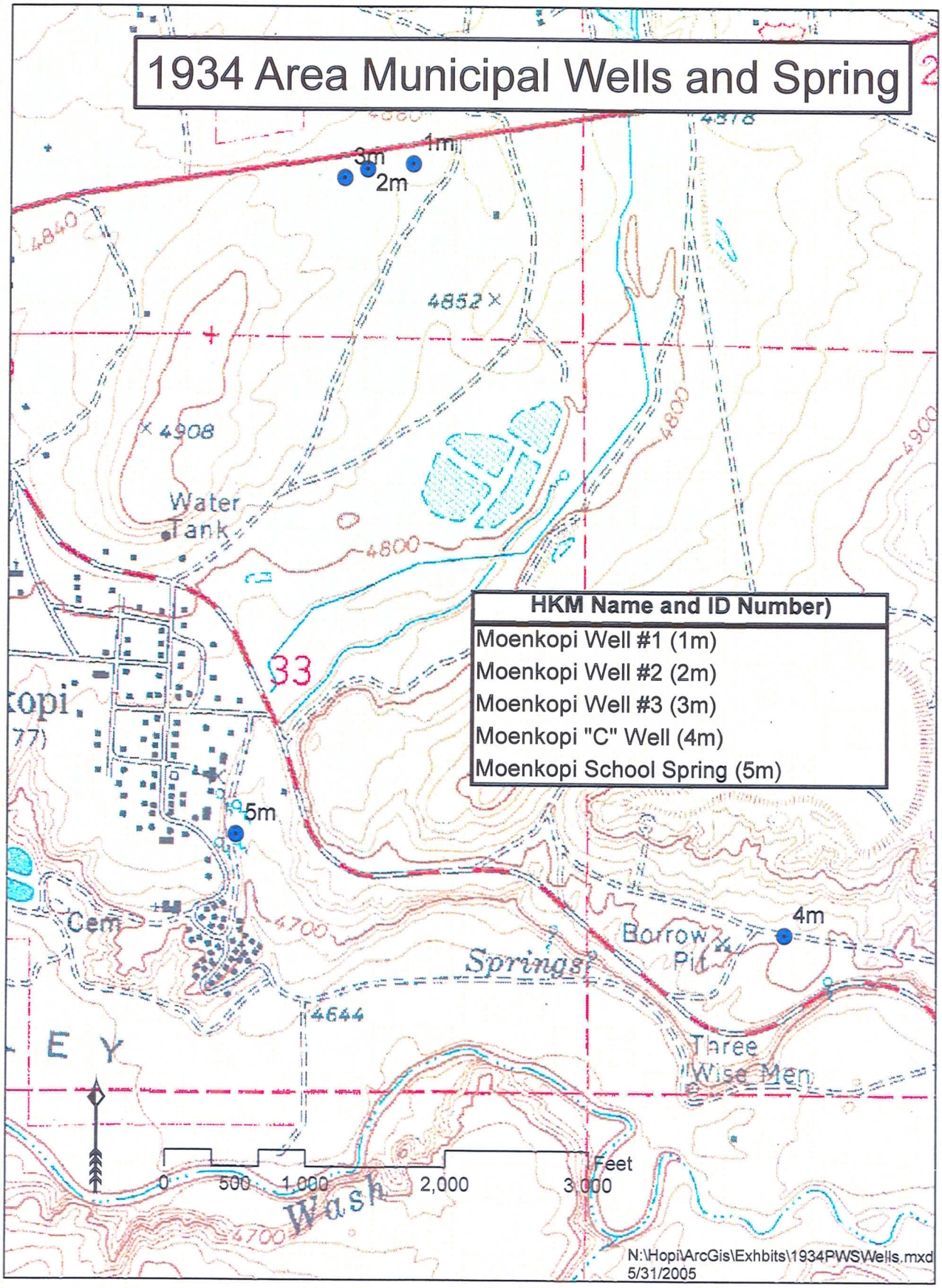
Explanation of terms

1934 Area Municipal Wells and Spring



HKM Name and ID Number)
Moenkopi Well #1 (1m)
Moenkopi Well #2 (2m)
Moenkopi Well #3 (3m)
Moenkopi "C" Well (4m)
Moenkopi School Spring (5m)

Supplemental Information For Hopi Tribe 1934 Area Municipal Water Wells and Municipal Supply Spring

Date USGS Identification Number	HKM Name and ID Number)	Drilled Depth (feet below ground	Well Depth (feet below ground	Date Completed	Major Aquifer/Depth to Top	Static Water Level (feet below ground	Date Static Water Level Measured	Reported Pumping Rate (gpm)/Date	Pump Test/Rate (gpm)	Test Pumping Water Level (feet below ground	Pump Test Duration (hours)	Specific Capacity (gpm/ft)	Casing Diameter (inches)	Casing Bottom (feet below ground	Completion, Diameter & Interval (inches & feet below	Water Quality Analysis	Use
360718111125701	Moenkopi Well #1 (1m)		140	00/00/1977	N	42	10/10/1977	52.9/ 2001/1							69-129	Y	M
360718111130401	Moenkopi Well #2 (2m)		180	00/00/1982	N	53	02/00/1982	106/ 10/18/1993							70-125	Y	M
None	Moenkopi Well #3 (3m)				N(?)												M
None	Moenkopi "C" Well (4m)	3,215	3,215	02/18/2004	C/2000	963	02/00/04		111.4	932.5	25	3.65	12.75 (O.D.)	2,300	11.0,O(2,300-3,215)	Y	M
360632111131101	Moenkopi School Spring (5m)							43.6 - 10.2/2								Y	M

Notes: 1/ Pumping rate was reported for both wells.2/ Range of flows recorded by USGS that available on GWSI. 3/ Information compiled from USGS GWSI and AEC submittal to Hopi Tribe.

M1

Water Resources

Data Category: Water Quality | Geographic Area: United States | go

Water Quality Samples for the Nation

USGS 360718111125701 03 077-12.08X08.83

Available data for this site Water-Quality: Discrete samples GO

Coconino County, Arizona
Hydrologic Unit Code 15020018
Latitude 36°07'19", Longitude 111°12'56"
NAD27
Gage datum 4,845.00 feet above sea level
NGVD29

Output formats

- Parameter Group data summary
- Inventory of available water-quality data
- Inventory of water-quality data with retrieval
- Tab-separated ASCII file, serial order
- Tab-separated ASCII file, wide order
- Reselect output format

SAMPLE DATETIME	MEDIUM CODE	Agency col-lecting sample, code (00027)	Agency ana-lyzing sample, code (00028)	Rn-222 2-sigma water unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
2000-08-24 08:35	6	1028	80020	16	120

Questions about data Water Webserver Team
Feedback on this website NWIS Web Support Team

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Explanation of terms

Water Quality Samples for USA: Sample Data
http://waterdata.usgs.gov/nwis/qwdata?

Retrieved on 2005-06-01 17:14:03 EDT

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0.94 0.94 nadww01

#M2

US Geological Survey
#
This file contains water quality sample data
Data for the following sites are included:
USGS 360718111130401 A-32-11 28DCA
#

agency_cd	site_no	sample_dt	sample_tm	parameter	result_va			
5s	15s	10d	4d	5s	12n			
USGS	360718111130401	01/31/92	11:00	10	16.3	#	00010	- Temperature, water, degrees Celsius
USGS	360718111130401	01/31/92	11:00	20	3.8	#	00020	- Temperature, air, degrees Celsius
USGS	360718111130401	01/31/92	11:00	25	574	#	00025	- Barometric pressure, millimeters of mercury
USGS	360718111130401	01/31/92	11:00	28	80020	#	00028	- Agency analyzing sample, code
USGS	360718111130401	01/31/92	11:00	59	100	#	00059	- Flow rate, instantaneous, gallons per minute
USGS	360718111130401	01/31/92	11:00	95	616	#	00095	- Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
USGS	360718111130401	01/31/92	11:00	300	5	#	00300	- Dissolved oxygen, water, unfiltered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	400	8	#	00400	- pH, water, unfiltered, field, standard units
USGS	360718111130401	01/31/92	11:00	403	7.9	#	00403	- pH, water, unfiltered, laboratory, standard units
USGS	360718111130401	01/31/92	11:00	608	0.01	#	00608	- Ammonia, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	01/31/92	11:00	613	0.01	#	00613	- Nitrite, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	01/31/92	11:00	631	1.2	#	00631	- Nitrite plus nitrate, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	01/31/92	11:00	671	0.01	#	00671	- Orthophosphate, water, filtered, milligrams per liter as phosphorus
USGS	360718111130401	01/31/92	11:00	915	56	#	00915	- Calcium, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	925	13	#	00925	- Magnesium, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	930	42	#	00930	- Sodium, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	935	2.1	#	00935	- Potassium, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	940	59	#	00940	- Chloride, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	945	80	#	00945	- Sulfate, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	950	0.3	#	00950	- Fluoride, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	955	14	#	00955	- Silica, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	1000	2	#	01000	- Arsenic, water, filtered, micrograms per liter
USGS	360718111130401	01/31/92	11:00	1020	80	#	01020	- Boron, water, filtered, micrograms per liter
USGS	360718111130401	01/31/92	11:00	1046	3	#	01046	- Iron, water, filtered, micrograms per liter
USGS	360718111130401	01/31/92	11:00	29804	159	#	29804	- Bicarbonate, water, filtered, fixed endpoint (pH 4.5) titration, field, milligrams per liter
USGS	360718111130401	01/31/92	11:00	29807	0	#	29807	- Carbonate, water, filtered, fixed endpoint (pH 8.3) titration, field, milligrams per liter
USGS	360718111130401	01/31/92	11:00	39036	130	#	39036	- Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, field, milligrams per liter as calcium carbonate
USGS	360718111130401	01/31/92	11:00	70300	345	#	70300	- Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter
USGS	360718111130401	01/31/92	11:00	72004	720	#	72004	- Pump or flow period prior to sampling, minutes
USGS	360718111130401	01/31/92	11:00	90095	589	#	90095	- Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius
USGS	360718111130401	01/31/92	11:00	90410	129	#	90410	- Acid neutralizing capacity, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as ca
USGS	360718111130401	10/18/93	11:00	10	17	#	00010	- Temperature, water, degrees Celsius
USGS	360718111130401	10/18/93	11:00	25	643	#	00025	- Barometric pressure, millimeters of mercury
USGS	360718111130401	10/18/93	11:00	27	1028	#	00027	- Agency collecting sample, code
USGS	360718111130401	10/18/93	11:00	28	80020	#	00028	- Agency analyzing sample, code
USGS	360718111130401	10/18/93	11:00	59	106	#	00059	- Flow rate, instantaneous, gallons per minute
USGS	360718111130401	10/18/93	11:00	95	517	#	00095	- Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
USGS	360718111130401	10/18/93	11:00	300	5.6	#	00300	- Dissolved oxygen, water, unfiltered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	400	7.8	#	00400	- pH, water, unfiltered, field, standard units
USGS	360718111130401	10/18/93	11:00	403	7.9	#	00403	- pH, water, unfiltered, laboratory, standard units
USGS	360718111130401	10/18/93	11:00	452	0	#	00452	- Carbonate, water, filtered, incremental titration, field, milligrams per liter
USGS	360718111130401	10/18/93	11:00	453	127	#	00453	- Bicarbonate, water, filtered, incremental titration, field, milligrams per liter

#212

USGS	360718111130401	10/18/93	11:00	608	0.02	#	00608	- Ammonia, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	10/18/93	11:00	613	0.01	#	00613	- Nitrite, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	10/18/93	11:00	631	1.8	#	00631	- Nitrite plus nitrate, water, filtered, milligrams per liter as nitrogen
USGS	360718111130401	10/18/93	11:00	671	0.01	#	00671	- Orthophosphate, water, filtered, milligrams per liter as phosphorus
USGS	360718111130401	10/18/93	11:00	915	51	#	00915	- Calcium, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	925	12	#	00925	- Magnesium, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	930	36	#	00930	- Sodium, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	935	1.9	#	00935	- Potassium, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	940	48	#	00940	- Chloride, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	945	69	#	00945	- Sulfate, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	950	0.2	#	00950	- Fluoride, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	955	15	#	00955	- Silica, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	1000	2	#	01000	- Arsenic, water, filtered, micrograms per liter
USGS	360718111130401	10/18/93	11:00	1020	70	#	01020	- Boron, water, filtered, micrograms per liter
USGS	360718111130401	10/18/93	11:00	1046	7	#	01046	- Iron, water, filtered, micrograms per liter
USGS	360718111130401	10/18/93	11:00	39086	104	#	39036	- Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, field, milligrams per liter as calcium carbonate
USGS	360718111130401	10/18/93	11:00	70300	290	#	70300	- Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter
USGS	360718111130401	10/18/93	11:00	72004	110	#	72004	- Pump or flow period prior to sampling, minutes
USGS	360718111130401	10/18/93	11:00	72008	180	#	72008	- Depth of well, feet below land surface datum
USGS	360718111130401	10/18/93	11:00	90095	522	#	90095	- Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius
USGS	360718111130401	10/18/93	11:00	90410	106	#	90410	- Acid neutralizing capacity, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as ca

Table 3 - Preliminary Water Quality Results

Analyte[a]	Federal MCL	Preliminary Lab Results (sample interval and date)			
		Zone 1: 2900-2960	Zone 2: 2650-2710	Zone 3: 2350-2410	Zone 4: 2030-2090
		6-Dec-2003	7-Dec-2003	8-Dec-2003	9-Dec-2003
Total Alkalinity (as CaCO3)	--	217	278	93	171
Total Dissolved Solids (reported)	500[b]	3230	1330	2300	3920
Total Dissolved Solids (calculated)	500[b]	3560	2240	2690	7460
Conductivity (umhos/cm)	--	5500	3290	2570	11000
pH (standard unit)	6.5 - 8.5[b]	8.2	8.2	8.2	8.0
Temperature (Degrees C)	--	24.6	24.1	24.4	18.9
Nitrogen as Ammonia	--	<1.0	<1.0	<1.0	<1.0
Chloride	250[b]	1940	1010	1490	4030
Fluoride	--	0.4	0.6	0.5	1
Nitrate plus Nitrite	10	0.4	0.2	<0.1	0.2
Orthophosphate as P	--	<0.05	<0.05	<0.05	<0.05
Turbidity (NTU)	--	34	10400	55	31.8
Sulfate	250[b]	260	236	254	606
Aluminum, Dissolved	0.2[b]	<0.20	<0.20	<0.20	0.38
Arsenic, Dissolved	0.01	<0.002	<0.002	<0.002	<0.020
Barium, Dissolved	2	0.19	0.06	0.08	0.14
Boron, Dissolved	--	0.38	0.39	0.32	0.48
Cadmium, Dissolved	0.005	<0.004	<0.004	<0.004	<0.004
Calcium, Dissolved	--	96	42	72	318
Chromium, Dissolved	0.1	<0.005	<0.005	<0.005	<0.005
Copper, Dissolved	1[b]	<0.01	<0.01	<0.01	<0.01
Iron, Dissolved	0.3	0.32	0.22	0.26	0.36
Lead, Dissolved	0.015	<0.005	<0.005	<0.005	<0.050
Magnesium, Dissolved	--	42	14	32	44
Manganese, Dissolved	0.05[b]	0.37	0.11	0.36	0.87
Mercury, Dissolved	0.002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum, Dissolved	--	0.03	0.06	0.06	0.07
Nickel, Dissolved	--	<0.02	<0.02	<0.02	<0.02
Potassium, Dissolved	--	26	12	19	44
Selenium, Dissolved	0.05	<0.005	<0.005	<0.005	<0.050
Silica, Dissolved	--	0.43	0.35	0.54	4.02
Silver, Dissolved	0.1[b]	<0.004	<0.04	<0.04	<0.04
Sodium, Dissolved	--	926	583	705	2190
Strontium, Dissolved	--	2.07	1.09	1.6	11.8
Zinc, Dissolved	5[b]	0.03	0.18	<0.02	0.08
Radium 226 Activity (pCi/L)		0.6 +/- 0.1	0.3 +/- 0.1	0.8 +/- 0.1	0.5 +/- 0.1
Radium 228 Activity (pCi/L)	5	<0.4	<0.4	0.8 +/- 0.3	<0.4
Gross Alpha (pCi/L)	15	2.6 +/- 0.7	5.3 +/- 1.1	4.5 +/- 1.3	5.5 +/- 1.1
Uranium Activity (pCi/L)	5	1.5 +/- 0.3	<0.6	1.9 +/- 0.4	<0.6
Total Organic Carbon	--	3.4	9.6	6.9	14

[a]All concentrations are in milligrams-per-liters (mg/L) unless otherwise noted; [b]Secondary standard

MCL = maximum contaminant level, national primary standard unless otherwise noted

umhos/cm = micromos-per-centimeter; NTU = nephelometric turbidity units; pCi/L = picocurries-per-liter

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#
#
US Geological Survey
#
This file contains water quality sample data
for stations in the water quality database.
#
Data for the following sites are included:
USGS 360632111131101 MOENKOPI SCH SP.
#
The following parameters are included:
00010 - Temperature, water, degrees Celsius
00020 - Temperature, air, degrees Celsius
00025 - Barometric pressure, millimeters of mercury
00027 - Agency collecting sample, code
00028 - Agency analyzing sample, code
00041 - Weather, World Meteorological Organization code
00059 - Flow rate, instantaneous, gallons per minute
00061 - Discharge, instantaneous, cubic feet per second
00063 - Number of sampling points, count
00095 - Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
00300 - Dissolved oxygen, water, unfiltered, milligrams per liter
00400 - pH, water, unfiltered, field, standard units
00403 - pH, water, unfiltered, laboratory, standard units
00410 - Acid neutralizing capacity, water, unfiltered, fixed endpoint (pH 4.5) titration, field, milligrams per liter as calcium carbonate
00419 - Acid neutralizing capacity, water, unfiltered, incremental titration, field, milligrams per liter as calcium carbonate
00440 - Bicarbonate, water, unfiltered, fixed endpoint (pH 4.5) titration, field, milligrams per liter
00445 - Carbonate, water, unfiltered, fixed endpoint (pH 8.3) titration, field, milligrams per liter
00447 - Carbonate, water, unfiltered, incremental titration, field, milligrams per liter
00450 - Bicarbonate, water, unfiltered, incremental titration, field, milligrams per liter
00452 - Carbonate, water, filtered, incremental titration, field, milligrams per liter
00453 - Bicarbonate, water, filtered, incremental titration, field, milligrams per liter
00608 - Ammonia, water, filtered, milligrams per liter as nitrogen
00613 - Nitrite, water, filtered, milligrams per liter as nitrogen
00625 - Ammonia plus organic nitrogen, water, unfiltered, milligrams per liter as nitrogen
00631 - Nitrite plus nitrate, water, filtered, milligrams per liter as nitrogen
00665 - Phosphorus, water, unfiltered, milligrams per liter

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00666 - Phosphorus, water, filtered, milligrams per liter
00671 - Orthophosphate, water, filtered, milligrams per liter as phosphorus
00915 - Calcium, water, filtered, milligrams per liter
00925 - Magnesium, water, filtered, milligrams per liter
00930 - Sodium, water, filtered, milligrams per liter
00935 - Potassium, water, filtered, milligrams per liter
00940 - Chloride, water, filtered, milligrams per liter
00945 - Sulfate, water, filtered, milligrams per liter
00950 - Fluoride, water, filtered, milligrams per liter
00955 - Silica, water, filtered, milligrams per liter
01000 - Arsenic, water, filtered, micrograms per liter
01005 - Barium, water, filtered, micrograms per liter
01010 - Beryllium, water, filtered, micrograms per liter
01020 - Boron, water, filtered, micrograms per liter
01025 - Cadmium, water, filtered, micrograms per liter
01030 - Chromium, water, filtered, micrograms per liter
01035 - Cobalt, water, filtered, micrograms per liter
01040 - Copper, water, filtered, micrograms per liter
01046 - Iron, water, filtered, micrograms per liter
01049 - Lead, water, filtered, micrograms per liter
01056 - Manganese, water, filtered, micrograms per liter
01060 - Molybdenum, water, filtered, micrograms per liter
01065 - Nickel, water, filtered, micrograms per liter
01075 - Silver, water, filtered, micrograms per liter
01080 - Strontium, water, filtered, micrograms per liter
01085 - Vanadium, water, filtered, micrograms per liter
01090 - Zinc, water, filtered, micrograms per liter
01095 - Antimony, water, filtered, micrograms per liter
01130 - Lithium, water, filtered, micrograms per liter
01145 - Selenium, water, filtered, micrograms per liter
03515 - Gross beta radioactivity, water, filtered, Cs-137 curve, picocuries per liter
04126 - Alpha radioactivity, water, filtered, Th-230 curve, picocuries per liter
22703 - Uranium (natural), water, filtered, micrograms per liter
28011 - Uranium (natural), water, unfiltered, micrograms per liter
29801 - Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate
39036 - Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, field, milligrams per liter as calcium carbonate
39086 - Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate

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50276 - Filter type, code
50280 - Purpose, site visit, code
70300 - Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter
71834 - Hydroxide, water, filtered, incremental titration, field, milligrams per liter
71999 - Sample purpose, code
72005 - Sample source, code
72006 - Sampling condition, code
75986 - Alpha radioactivity 2-sigma combined uncertainty, water, filtered, natural uranium curve, micrograms per liter
75987 - Alpha radioactivity 2-sigma combined uncertainty, water, filtered, Th-230 curve, picocuries per liter
75988 - Beta radioactivity 2-sigma combined uncertainty, water, filtered, Sr-90/Y-90 curve, picocuries per liter
75989 - Beta radioactivity 2-sigma combined uncertainty, water, filtered, Cs-137 curve, picocuries per liter
75993 - Uranium (natural) 2-sigma combined uncertainty, water, unfiltered, micrograms per liter
76002 - Radon-222 2-sigma combined uncertainty, water, unfiltered, picocuries per liter
80030 - Gross alpha radioactivity, water, filtered, natural uranium curve, micrograms per liter
80050 - Gross beta radioactivity, water, filtered, Sr-90/Y-90 curve, picocuries per liter
82082 - Deuterium/Protium ratio, water, unfiltered, per mil
82085 - Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil
82303 - Radon-222, water, unfiltered, picocuries per liter
82398 - Sampling method, code
84164 - Sampler type, code
90095 - Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius
90410 - Acid neutralizing capacity, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate
#
Description of remark_cd column
< - Actual value is known to be less than the value shown.
> - Actual value is known to be greater than the value shown.
A - Average value
E - Estimated value
M - Presence of material verified but not quantified
N - Presumptive evidence of presence of material
S - Most probable value
U - Material specifically analyzed for but not detected
V - Value affected by contamination
#
#

agency_cd	site_no	sample_dt	sample_tm	parameter_	result_va
5s	15s	10d	4d	5s	12n

SM

USGS	360632111131101	04/22/1987	9:00	10	16
USGS	360632111131101	04/22/1987	9:00	20	14
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USGS	360632111131101	04/22/1987	9:00	400	7.4
USGS	360632111131101	04/22/1987	9:00	403	7.7
USGS	360632111131101	04/22/1987	9:00	410	101
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USGS	360632111131101	04/22/1987	9:00	445	0
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USGS	360632111131101	04/22/1987	9:00	671	0.01
USGS	360632111131101	04/22/1987	9:00	915	25
USGS	360632111131101	04/22/1987	9:00	925	5.5
USGS	360632111131101	04/22/1987	9:00	930	22
USGS	360632111131101	04/22/1987	9:00	935	1.3
USGS	360632111131101	04/22/1987	9:00	940	12
USGS	360632111131101	04/22/1987	9:00	945	19
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USGS	360632111131101	04/22/1987	9:00	955	13
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USGS	360632111131101	04/22/1987	9:00	1046	5
USGS	360632111131101	04/22/1987	9:00	70300	161
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USGS	360632111131101	11/29/1988	13:50	10	18
USGS	360632111131101	11/29/1988	13:50	27	1028
USGS	360632111131101	11/29/1988	13:50	28	80020
USGS	360632111131101	11/29/1988	13:50	59	43.6
USGS	360632111131101	11/29/1988	13:50	95	270
USGS	360632111131101	11/29/1988	13:50	400	7.2
USGS	360632111131101	11/29/1988	13:50	403	7.5
USGS	360632111131101	11/29/1988	13:50	410	97
USGS	360632111131101	11/29/1988	13:50	419	98
USGS	360632111131101	11/29/1988	13:50	447	0

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USGS	360632111131101	11/29/1988	13:50	450	119
USGS	360632111131101	11/29/1988	13:50	631	1.9
USGS	360632111131101	11/29/1988	13:50	671	0.01
USGS	360632111131101	11/29/1988	13:50	915	27
USGS	360632111131101	11/29/1988	13:50	925	5.9
USGS	360632111131101	11/29/1988	13:50	930	22
USGS	360632111131101	11/29/1988	13:50	935	1.3
USGS	360632111131101	11/29/1988	13:50	940	12
USGS	360632111131101	11/29/1988	13:50	945	19
USGS	360632111131101	11/29/1988	13:50	950	0.1
USGS	360632111131101	11/29/1988	13:50	955	14
USGS	360632111131101	11/29/1988	13:50	1020	30
USGS	360632111131101	11/29/1988	13:50	1046	6
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USGS	360632111131101	11/29/1988	13:50	90410	98
USGS	360632111131101	02/21/1991	16:45	10	16.5
USGS	360632111131101	02/21/1991	16:45	27	1028
USGS	360632111131101	02/21/1991	16:45	28	80020
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USGS	360632111131101	02/21/1991	16:45	440	118
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USGS	360632111131101	02/21/1991	16:45	613	0.01
USGS	360632111131101	02/21/1991	16:45	631	1.9
USGS	360632111131101	02/21/1991	16:45	671	0.01
USGS	360632111131101	02/21/1991	16:45	915	27
USGS	360632111131101	02/21/1991	16:45	925	5.7
USGS	360632111131101	02/21/1991	16:45	930	22
USGS	360632111131101	02/21/1991	16:45	935	1.3
USGS	360632111131101	02/21/1991	16:45	940	14
USGS	360632111131101	02/21/1991	16:45	945	20
USGS	360632111131101	02/21/1991	16:45	950	0.1
USGS	360632111131101	02/21/1991	16:45	955	13
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USGS	360632111131101	02/21/1991	16:45	1020	30
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USGS	360632111131101	02/21/1991	16:45	70300	157
USGS	360632111131101	02/21/1991	16:45	90095	287
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USGS	360632111131101	04/06/1993	10:00	28	80020
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USGS	360632111131101	04/06/1993	10:00	82085	-9.07
USGS	360632111131101	04/07/1993	10:00	10	16
USGS	360632111131101	04/07/1993	10:00	10	16
USGS	360632111131101	04/07/1993	10:00	20	11.4
USGS	360632111131101	04/07/1993	10:00	20	11.4
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USGS	360632111131101	04/07/1993	10:00	27	1028
USGS	360632111131101	04/07/1993	10:00	27	1028
USGS	360632111131101	04/07/1993	10:00	28	1028
USGS	360632111131101	04/07/1993	10:00	28	80020
USGS	360632111131101	04/07/1993	10:00	61	15
USGS	360632111131101	04/07/1993	10:00	61	15
USGS	360632111131101	04/07/1993	10:00	95	313
USGS	360632111131101	04/07/1993	10:00	95	313
USGS	360632111131101	04/07/1993	10:00	300	6.9
USGS	360632111131101	04/07/1993	10:00	300	6.9
USGS	360632111131101	04/07/1993	10:00	400	7.5
USGS	360632111131101	04/07/1993	10:00	400	7.5
USGS	360632111131101	04/07/1993	10:00	403	7.7
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USGS	360632111131101	04/07/1993	10:00	453	131
USGS	360632111131101	04/07/1993	10:00	608	0.01
USGS	360632111131101	04/07/1993	10:00	613	0.01
USGS	360632111131101	04/07/1993	10:00	631	2.3
USGS	360632111131101	04/07/1993	10:00	671	0.01
USGS	360632111131101	04/07/1993	10:00	915	29
USGS	360632111131101	04/07/1993	10:00	925	6.1
USGS	360632111131101	04/07/1993	10:00	930	26
USGS	360632111131101	04/07/1993	10:00	935	1.4

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USGS	360632111131101	04/07/1993	10:00	940	17
USGS	360632111131101	04/07/1993	10:00	945	27
USGS	360632111131101	04/07/1993	10:00	950	0.2
USGS	360632111131101	04/07/1993	10:00	955	14
USGS	360632111131101	04/07/1993	10:00	1000	3
USGS	360632111131101	04/07/1993	10:00	1020	50
USGS	360632111131101	04/07/1993	10:00	1046	3
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USGS	360632111131101	04/07/1993	10:00	39086	110
USGS	360632111131101	04/07/1993	10:00	70300	204
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USGS	360632111131101	09/23/1993	9:30	10	18.5
USGS	360632111131101	09/23/1993	9:30	25	648
USGS	360632111131101	09/23/1993	9:30	27	1028
USGS	360632111131101	09/23/1993	9:30	28	80020
USGS	360632111131101	09/23/1993	9:30	61	13
USGS	360632111131101	09/23/1993	9:30	95	286
USGS	360632111131101	09/23/1993	9:30	300	6.8
USGS	360632111131101	09/23/1993	9:30	400	7.5
USGS	360632111131101	09/23/1993	9:30	403	7.1
USGS	360632111131101	09/23/1993	9:30	453	121
USGS	360632111131101	09/23/1993	9:30	608	0.02
USGS	360632111131101	09/23/1993	9:30	613	0.01
USGS	360632111131101	09/23/1993	9:30	625	0.2
USGS	360632111131101	09/23/1993	9:30	631	2.1
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USGS	360632111131101	09/23/1993	9:30	671	0.02
USGS	360632111131101	09/23/1993	9:30	915	28
USGS	360632111131101	09/23/1993	9:30	925	5.8
USGS	360632111131101	09/23/1993	9:30	930	23
USGS	360632111131101	09/23/1993	9:30	935	1.2
USGS	360632111131101	09/23/1993	9:30	940	15
USGS	360632111131101	09/23/1993	9:30	945	22
USGS	360632111131101	09/23/1993	9:30	950	0.2
USGS	360632111131101	09/23/1993	9:30	955	13

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USGS	360632111131101	09/23/1993	9:30	1000	3
USGS	360632111131101	09/23/1993	9:30	1005	41
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USGS	360632111131101	09/23/1993	9:30	1020	40
USGS	360632111131101	09/23/1993	9:30	1025	1
USGS	360632111131101	09/23/1993	9:30	1030	5
USGS	360632111131101	09/23/1993	9:30	1035	3
USGS	360632111131101	09/23/1993	9:30	1040	10
USGS	360632111131101	09/23/1993	9:30	1046	3
USGS	360632111131101	09/23/1993	9:30	1049	10
USGS	360632111131101	09/23/1993	9:30	1056	1
USGS	360632111131101	09/23/1993	9:30	1060	10
USGS	360632111131101	09/23/1993	9:30	1065	10
USGS	360632111131101	09/23/1993	9:30	1075	1
USGS	360632111131101	09/23/1993	9:30	1080	420
USGS	360632111131101	09/23/1993	9:30	1085	7
USGS	360632111131101	09/23/1993	9:30	1090	4
USGS	360632111131101	09/23/1993	9:30	1095	1
USGS	360632111131101	09/23/1993	9:30	1130	19
USGS	360632111131101	09/23/1993	9:30	1145	1
USGS	360632111131101	09/23/1993	9:30	3515	2
USGS	360632111131101	09/23/1993	9:30	4126	2
USGS	360632111131101	09/23/1993	9:30	22703	1
USGS	360632111131101	09/23/1993	9:30	28011	2
USGS	360632111131101	09/23/1993	9:30	39086	99
USGS	360632111131101	09/23/1993	9:30	75986	1.1
USGS	360632111131101	09/23/1993	9:30	75987	0.69
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USGS	360632111131101	09/23/1993	9:30	90095	303
USGS	360632111131101	09/23/1993	9:30	90410	97
USGS	360632111131101	12/07/1994	13:00	10	17.5

5M

USGS	360632111131101	12/07/1994	13:00	20	12
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USGS	360632111131101	12/07/1994	13:00	28	80020
USGS	360632111131101	12/07/1994	13:00	95	305
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USGS	360632111131101	12/07/1994	13:00	403	7.5
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USGS	360632111131101	12/07/1994	13:00	613	0.01
USGS	360632111131101	12/07/1994	13:00	631	2.3
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USGS	360632111131101	12/07/1994	13:00	930	24
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USGS	360632111131101	12/04/1995	14:40	10	16
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USGS	360632111131101	12/04/1995	14:40	608	0.01
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USGS	360632111131101	12/04/1995	14:40	631	2.4
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USGS	360632111131101	12/04/1995	14:40	915	29
USGS	360632111131101	12/04/1995	14:40	925	6.3
USGS	360632111131101	12/04/1995	14:40	930	24
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USGS	360632111131101	12/04/1995	14:40	950	0.2
USGS	360632111131101	12/04/1995	14:40	955	14
USGS	360632111131101	12/04/1995	14:40	1020	40
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USGS	360632111131101	12/16/1996	15:42	10	17.5
USGS	360632111131101	12/16/1996	15:42	20	7.5
USGS	360632111131101	12/16/1996	15:42	25	643
USGS	360632111131101	12/16/1996	15:42	27	1028
USGS	360632111131101	12/16/1996	15:42	28	80020
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USGS	360632111131101	12/16/1996	15:42	403	7.6
USGS	360632111131101	12/16/1996	15:42	608	0.01
USGS	360632111131101	12/16/1996	15:42	613	0.01
USGS	360632111131101	12/16/1996	15:42	631	2.5
USGS	360632111131101	12/16/1996	15:42	671	0.01
USGS	360632111131101	12/16/1996	15:42	915	30
USGS	360632111131101	12/16/1996	15:42	925	6.5
USGS	360632111131101	12/16/1996	15:42	930	26
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USGS	360632111131101	12/16/1996	15:42	1020	24
USGS	360632111131101	12/16/1996	15:42	1046	3
USGS	360632111131101	12/16/1996	15:42	29801	99
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USGS	360632111131101	12/17/1997	13:55	10	17.5
USGS	360632111131101	12/17/1997	13:55	25	646
USGS	360632111131101	12/17/1997	13:55	27	1028
USGS	360632111131101	12/17/1997	13:55	28	80020
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USGS	360632111131101	12/17/1997	13:55	90410	97
USGS	360632111131101	12/08/1998	15:30	10	17.2
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USGS	360632111131101	12/08/1998	15:30	453	117
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USGS	360632111131101	12/08/1998	15:30	915	29.3
USGS	360632111131101	12/08/1998	15:30	925	6.5
USGS	360632111131101	12/08/1998	15:30	930	24.9
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USGS	360632111131101	12/08/1998	15:30	90095	316
USGS	360632111131101	12/08/1998	15:30	90410	97
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5M

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USGS	360632111131101	03/12/2001	17:00	950	0.2
USGS	360632111131101	03/12/2001	17:00	955	13.3
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USGS	360632111131101	04/02/2002	9:15	84164	3070
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USGS	360632111131101	06/19/2002	13:15	631	2.34
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USGS	360632111131101	06/19/2002	13:15	70300	191
USGS	360632111131101	06/19/2002	13:15	71834	0
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USGS	360632111131101	05/01/2003	10:15	613	0.008
USGS	360632111131101	05/01/2003	10:15	631	2.31
USGS	360632111131101	05/01/2003	10:15	671	0.02
USGS	360632111131101	05/01/2003	10:15	915	28.1
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USGS	360632111131101	05/01/2003	10:15	930	24.6
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USGS	360632111131101	05/01/2003	10:15	945	23.4
USGS	360632111131101	05/01/2003	10:15	950	0.18
USGS	360632111131101	05/01/2003	10:15	955	13.4

SM

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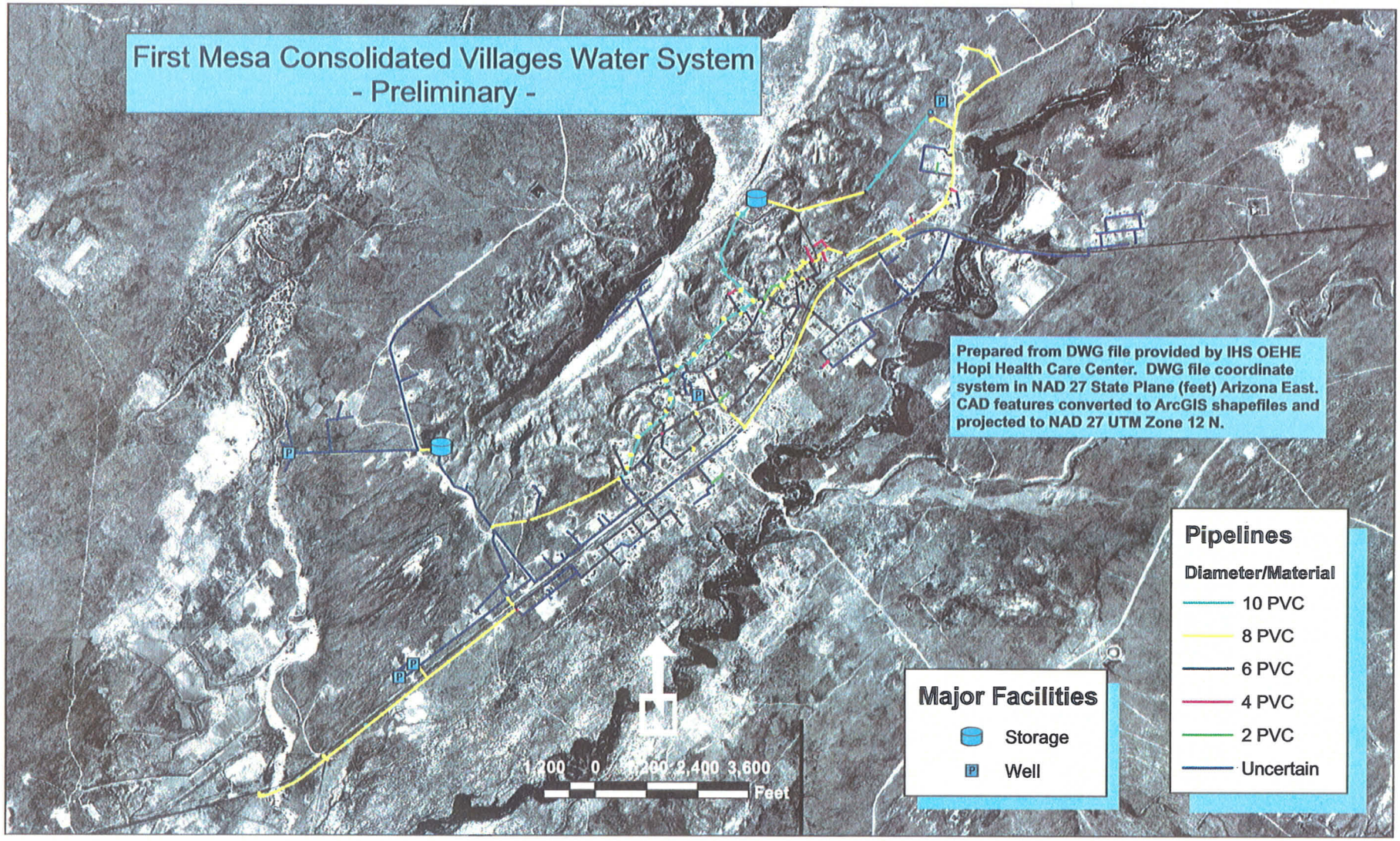

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Second Mesa Water Systems
- Preliminary -

Note: The water system pipelines and features shown on this map were developed from system hydraulic analysis sheets and "As-Built" drawings provided to HKM Engineering by the Indian Health Service. The various materials were projected to NAD 27 UTM Zone 12 North by a variety of methods and incorported into a reservation-wide geodatabase using ArcGIS 9.0.

N

0 1,000 2,000 3,000 4,000 5,000 Feet

Water System Features

Feature Type

- AIR RELEASE VALVE
- BLOWOFF
- EXT. STUBOUT
- FIRE HYDRANT
- PLUG
- REDUCER
- UNKNOWN
- UNKNOWN VALVE
- GATE VALVE
- WELL
- TREATMENT BUILDING
- WATER TANK

Pipelines

Diameter

- Unknown
- .75"
- 1"
- 1.5"
- 2"
- 2.5"
- 3"
- 4"
- 6"
- 8"

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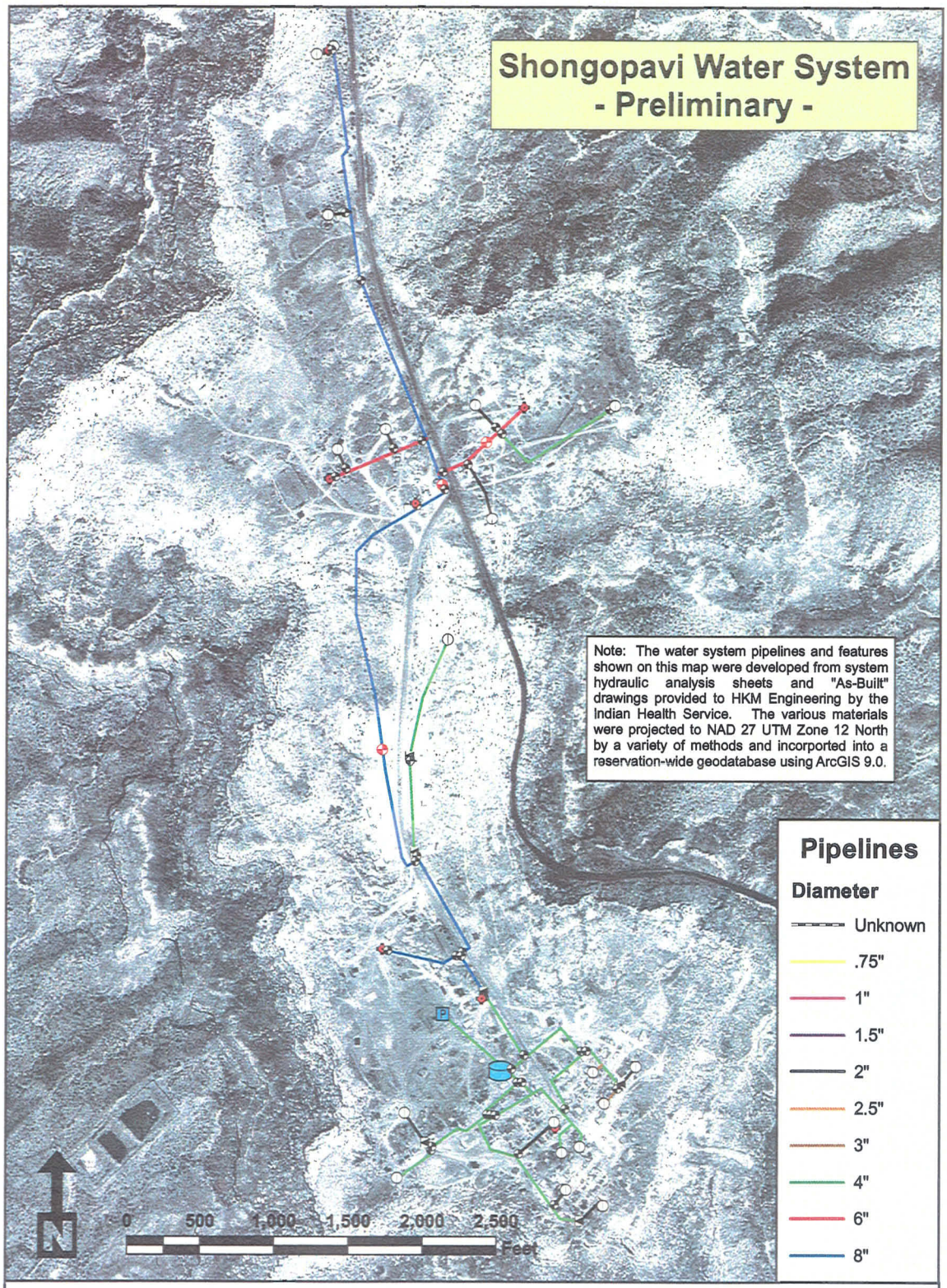

Water System Features

Feature Type

- AIR RELEASE VALVE
- BLOWOFF
- EXT. STUBOUT
- FIRE HYDRANT
- PLUG
- REDUCER
- UNKNOWN
- UNKNOWN VALVE
- GATE VALVE
- WELL
- TREATMENT BUILDING
- WATER TANK

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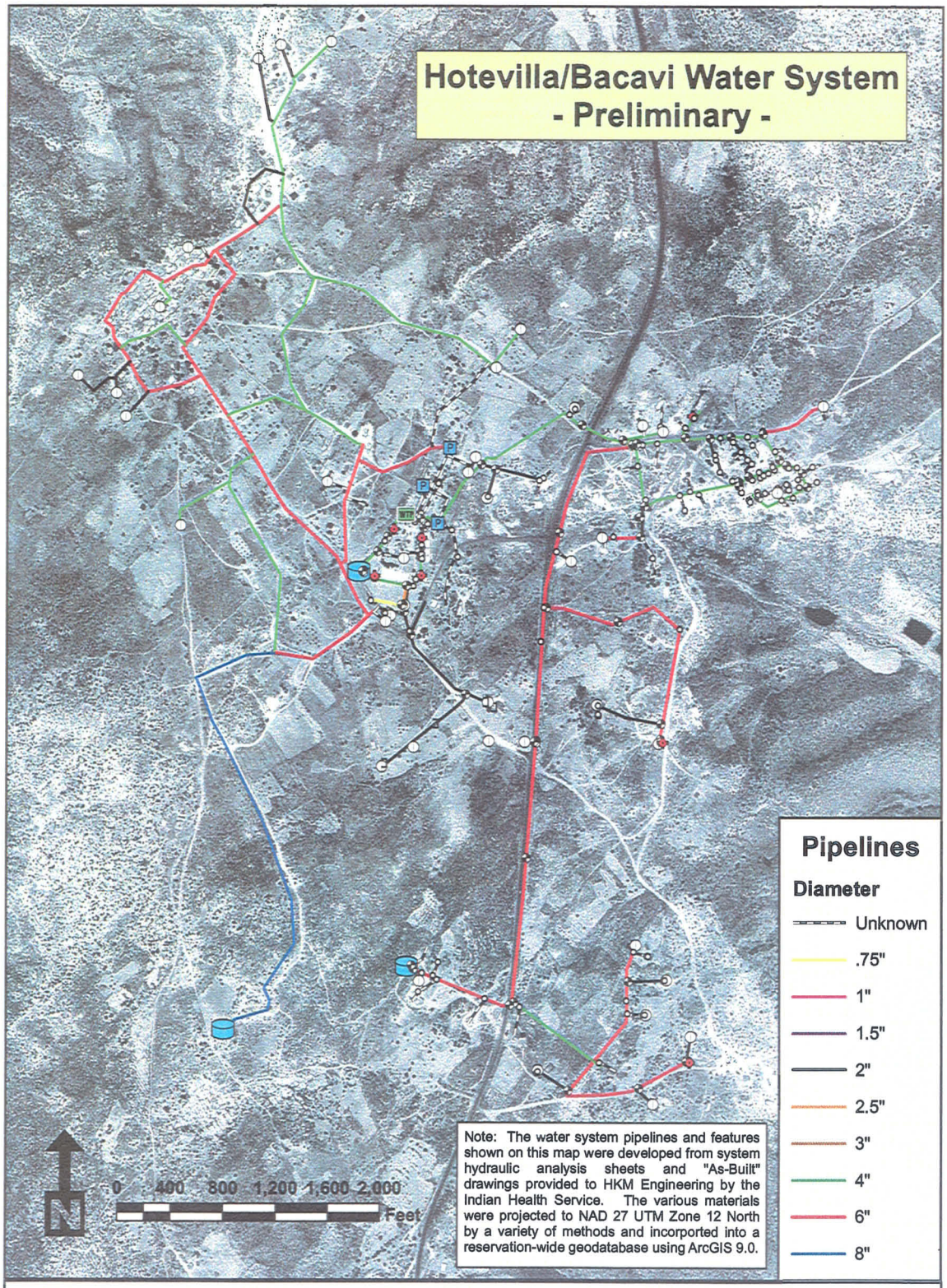
V1- 03/13/05 RHS



Water System Features

Feature Type

- AIR RELEASE VALVE
- BLOWOFF
- EXT. STUBOUT
- FIRE HYDRANT
- PLUG
- REDUCER
- UNKNOWN
- UNKNOWN VALVE
- GATE VALVE
- WELL
- TREATMENT BUILDING
- WATER TANK

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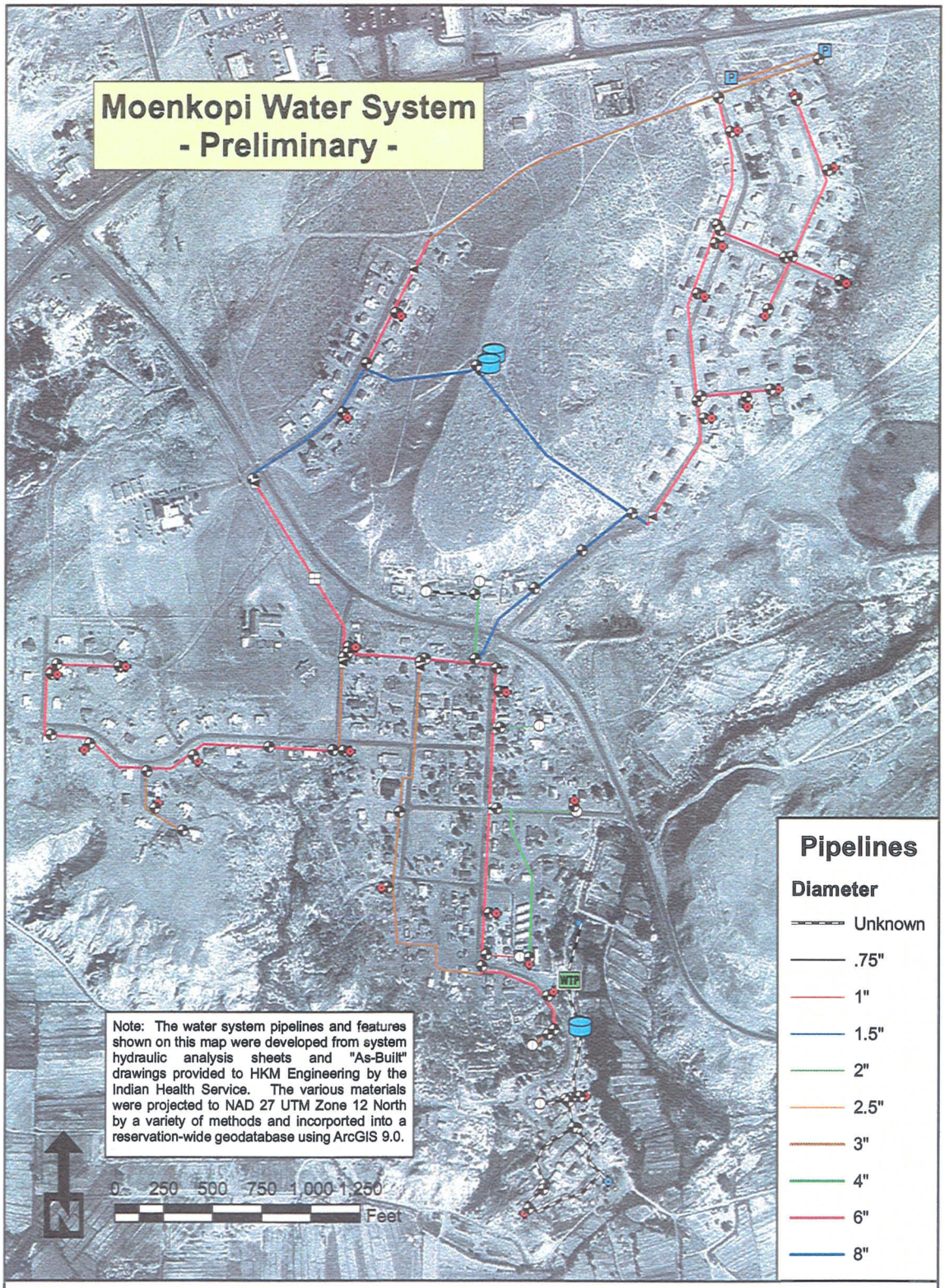
V1- 03/13/05 RHS



Water System Features

Feature Type

- AIR RELEASE VALVE
- BLOWOFF
- EXT. STUBOUT
- FIRE HYDRANT
- GATE VALVE
- LOWER MOENKOPI SPRING
- PLUG
- REDUCER
- TREATMENT BUILDING
- UNKNOWN
- UNKNOWN VALVE
- WATER TANK
- WELL

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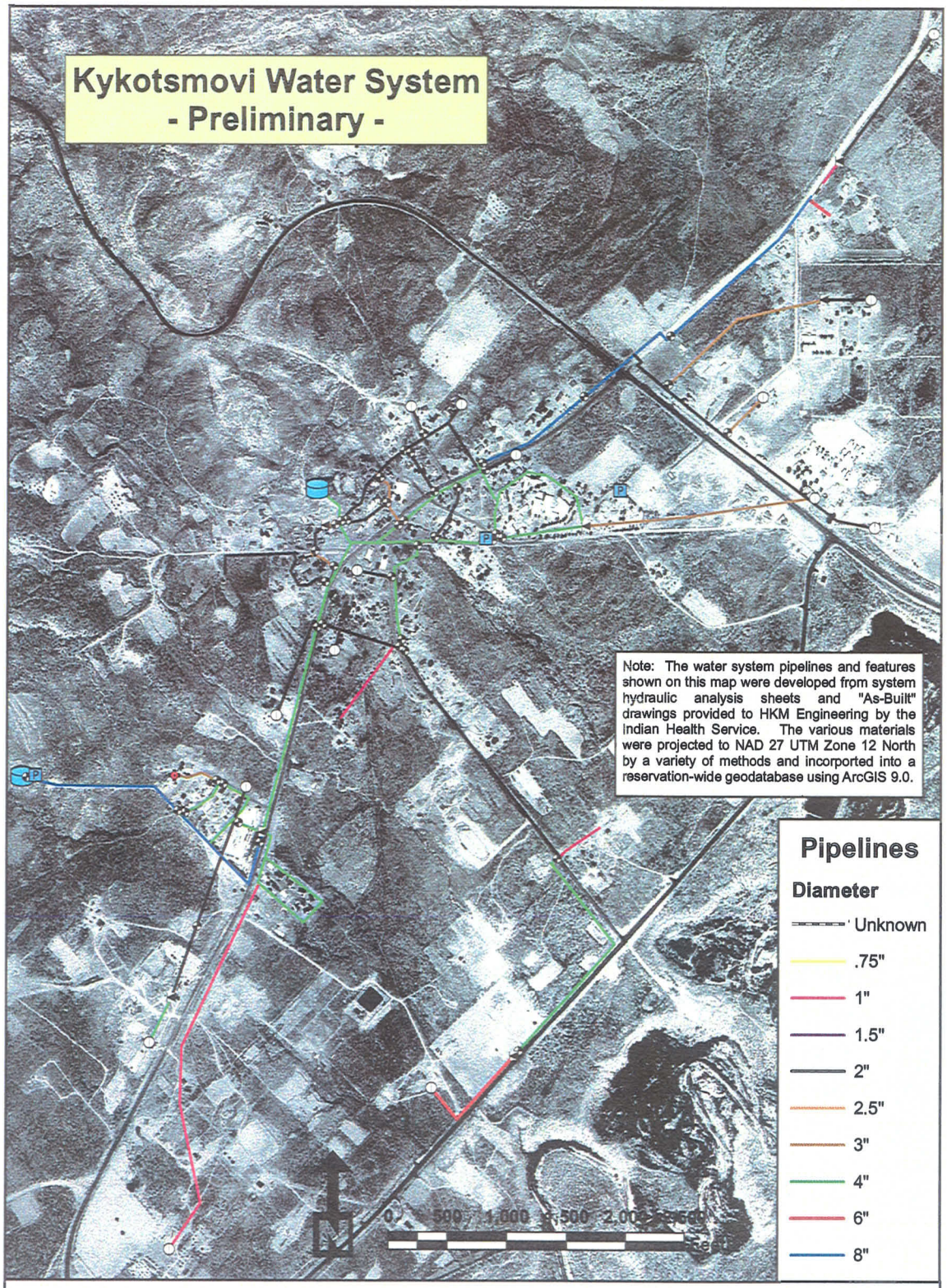
V1- 03/12/05 RHS



Water System Features

Feature Type

- AIR RELEASE VALVE
- BLOWOFF
- EXT. STUBOUT
- FIRE HYDRANT
- PLUG
- REDUCER
- UNKNOWN
- UNKNOWN VALVE
- GATE VALVE
- WELL
- TREATMENT BUILDING
- WATER TANK

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V1- 03/13/05 RHS

ITEM
#7

Table 6.
Springs

TYPE	PLATE NO. /1	ID /2	ADDED 2005/3	NAME	YEILD (GPM) /4	CLAIM (ACRE-FEET)	COORDINATES /5 X	Y
DINNEBITO WASH								
S	12	175		SALT WATER SP	ND	6.5	511654	3949611
S	12	176		03M-01	ND	6.5	506427	3952463
S	12	177		SAND SPRINGS	ND	6.5	506412	3952482
S	12	178			ND	6.5	506130	3953250
S	12	179			ND	6.5	506055	3953342
S	12	180		DVAS SPRING	ND	6.5	503669	3952976
S	12	181		WHISKEY SPRING	ND	6.5	505500	3955591
S	12	182		05M-04	ND	6.5	505702	3955221
S	12	183			ND	6.5	511885	3949859
S	12	230		5M-73	ND	6.5	510533	3949451
S	12	327		TISHEPI SPRING	ND	6.5	504509	3949560
S	12	328			ND	6.5	504732	3945470
S	12	329			ND	6.5	512023	3950016
S	3	28		MANY SHEEP SP	ND	6.5	552631	4016288
S	3	30		POST SP	ND	6.5	552572	4017705
S	3	227		4M-207	ND	6.5	551478	4018143
S	3	228		4M-58	ND	6.5	549466	4016534
S	6	67		04M-123	ND	6.5	533704	3988804
S	6	68		JUA-2-A-393	ND	6.5	525132	3985201
S	6	69		JUA-2-A-149	ND	6.5	527910	3985425
S	6	70		04M-149A	ND	6.5	528333	3986258
S	6	71		SUNLIGHT SPRING	ND	6.5	528633	3986259
S	6	72		WASH RUINS SPRING	ND	6.5	529105	3987401
S	6	73		WHITE CAVE SPRING	0	6.5	531474	3988188
S	6	74		04M-123A	ND	6.5	533755	3988773
S	6	76		TOCHAI SPRING	ND	6.5	535359	3987978
S	6	77		TOH AH HONNIE BETOH SP	ND	6.5	534568	3991950
S	6	223		4M-142	ND	6.5	533576	3991878
S	6	336		TOH HONI NI TOH	ND	6.5	534414	3992017
S	7	56		04M-187	ND	6.5	547137	4008246
S	7	219		4GS-74-1	ND	6.5	546302	4000954
S	8	84		JUA-5B-1-332	ND	6.5	510455	3970722
S	8	87			ND	6.5	521760	3978018
S	8	117		DINNEBITO SPRING	ND	6.5	508097	3961217
S	8	118		3M-172	2	6.5	508428	3967393
S	8	119		HAMANA SP	ND	6.5	518323	3961493
S	8	337		RED CLAY SPRING	ND	6.5	520678	3969297
S	9	92		HOTEVILLA SPRING	ND	6.5	529469	3975857
S	9	95		06M-63	ND	6.5	532884	3980667
S	9	302			ND	6.5	525797	3975741
S	9	306			ND	6.5	530036	3976138
	Subtotal Dinnebito Wash 1882 Area					266.5		
	Subtotal Dinnebito Wash 1934 Area					None		

JADITO WASH

S	11	172	C1-27B	ND	6.5	586682	3963192
S	11	173	07H-27	ND	6.5	587343	3962930
S	11	174	07H-27A	ND	6.5	587258	3963352
S	14	192	06M-16	ND	6.5	561416	3952630
S	14	193	AWAT OVI SP	ND	6.5	565322	3953311
S	14	194	06M-13	2	6.5	565486	3954582
S	14	195	KALBIT0 SP #2	ND	6.5	551939	3930699
S	14	196	KALBITO SP #1	ND	6.5	551927	3930946
S	14	197	07H-79	ND	6.5	552986	3931818
S	14	198	SEBA DALKAI	1	6.5	554004	3937698
S	14	199	7H-76	1	6.5	559191	3930937
S	14	200	WOLF PASS SP/WELL	2	6.5	560634	3931314
S	14	201	7H-233	ND	6.5	563730	3931785
S	14	202	7H-234	1	6.5	564151	3933976
S	14	203	BELL BUTTE SP	ND	6.5	559323	3935416
S	14	204	7H-236	1	6.5	561808	3936549
S	14	247	7H-179	ND	6.5	559291	3935416
S	14	252	6M-38	ND	6.5	550051	3943253
S	14	330	TRICKLE SPRING	ND	6.5	564983	3954197
S	14	331	HAIL SPRING	ND	6.5	566054	3955253
S	14	333		ND	6.5	559277	3935438
		Subtotal Jedito Wash 1882 Area			136.5		
		Subtotal Jedito Wash 1934 Area			None		

MOENKOPI WASH

S	1	3	SMOKE HOLE TANK	ND	6.5	513399	4013366
S	1	4	01A-66	ND	6.5	517830	4017572
S	1	5		ND	6.5	520671	4019019
S	1	6	WELL UNDER THE ROCK	ND	6.5	517744	4024065
S	1	7		ND	6.5	514522	4013306
S	1	339 B		ND	6.5	501223	4013418
S	2	1	02A-60	ND	6.5	543897	4026777
S	2	8		ND	6.5	525024	4014255
S	2	9		ND	6.5	524298	4015239
S	2	10	JUA2456	ND	6.5	527349	4012690
S	2	11	02A-56	ND	6.5	529582	4016333
S	2	12	JUA-2-4-2	ND	6.5	531461	4017428
S	2	13	JUA-2-4-1	ND	6.5	531099	4017756
S	2	14	DOG SPRING	ND	6.5	532211	4020564
S	2	15	JUA-2-1-7	ND	6.5	529495	4020365
S	2	16	JUA-2-1-6	ND	6.5	528193	4021597
S	2	17	02A-07	ND	6.5	526468	4023286
S	2	18	02A-54	ND	6.5	531944	4025277
S	2	19	4K-349	ND	6.5	542763	4014653
S	2	20	04M-60	ND	6.5	540712	4020599
S	2	21	04M-61	ND	6.5	536529	4019287
S	2	22	JUA2-2-7	ND	6.5	541427	4020531
S	2	23	LOOKING WOMAN SPRING	ND	6.5	543429	4020705
S	2	24	JUA2-2-6	ND	6.5	543135	4020889
S	2	25	JUA2-5-1	ND	6.5	538137	4022252
S	2	26	JUA2-2-5	ND	6.5	538733	4022778
S	2	27	JUA2-2-4	ND	6.5	541937	4025042
S	2	210	2A-59	ND	6.5	540434	4024033
S	2	212	3A-189A	ND	6.5	535606	4013412
S	2	300		ND	6.5	540643	4019177
S	3	2	LANDSLIDE SPRING	ND	6.5	547853	4027753
S	3	29	FLAT TOP SLIDE SP	ND	6.5	548317	4024983
S	3	31	OWL SPRING	ND	6.5	551133	4024968
S	3	226	4M-190A	ND	6.5	554858	4028845

S	5	32	01A-74	ND	6.5	500924	4009905
S	5	33	1A-75	ND	6.5	500924	4009536
S	5	34	BITTER SP	ND	6.5	508985	4010094
S	5	35	COLD WATER SP	ND	6.5	502042	4005058
S	5	36	01A-83	ND	6.5	506346	4002575
S	5	37	WILD HORSE SP	ND	6.5	511102	3999749
S	5	38	4 SHEEP SPRING	ND	6.5	514615	4002215
S	5	39	BASE OF COTTONWOOD SPR	ND	6.5	517503	4007396
S	5	57	ROUND ROCK	ND	6.5	506375	3996783
S	5	58	MUDDY WATER	ND	6.5	505050	3996011
S	5	59	NEZ SPRING	ND	6.5	506429	3990621
S	5	60	03M-159A1	ND	6.5	512140	3988640
S	5	61	03M-159	ND	6.5	512060	3988901
S	5	62	03M-159A2	ND	6.5	512085	3988778
S	5	63	JUA2-8-844B	ND	6.5	521484	3992647
S	5	64	LOG CRIB	ND	6.5	522183	3993234
S	5	65	SHALE SPRING	ND	6.5	520778	3995295
S	5	66	WILLOW SPRING	6	9.2	519425	3996463
S	5	206	1A-70	ND	6.5	505402	4011344
S	5	207	1A-79	ND	6.5	517874	4010459
S	5	209	1A-82	ND	6.5	509747	4001688
S	5	217	3GS-76-1	ND	6.5	504275	3996619
S	5	301	BAT SPRING	ND	6.5	513753	3986779
S	6	40	SPRING	ND	6.5	523897	3997676
S	6	41	JUA-2-9-391	ND	6.5	524821	3997740
S	6	42	JUA-2-A-163	ND	6.5	530674	3996742
S	6	43	04M-143	ND	6.5	529341	3999263
S	6	44	04M-137	ND	6.5	525135	4001469
S	6	45	JUA-2-10-384A	ND	6.5	531894	4004880
S	6	46	JUA-2-9-80A	ND	6.5	530289	4006846
S	6	47	01A-80	ND	6.5	524597	4006304
S	6	48	JUA-2-10-80	ND	6.5	523849	4005778
S	6	49	HORSE THIEF SPRING	ND	6.5	524663	4009416
S	6	50	JUA2-10-384B	ND	6.5	533770	4004271
S	6	51	JUA2-11-384	ND	6.5	538040	4004566
S	6	52	JUA2-4-1940	ND	6.5	533880	4007999
S	6	53	04T-5-4	ND	6.5	541969	4008219
S	6	54	04M-194E	ND	6.5	536944	4009799
S	6	55	04M-144A	ND	6.5	536693	4010044
S	6	75	04M-130	1	6.5	524938	3992009
S	6	208	1A-80A	ND	6.5	523357	4008695
S	6	222	4M-139	ND	6.5	524805	3992521
S	6	224	4M-145	ND	6.5	534220	4004028
S	6	225	4M-146	ND	6.5	533415	4004994
S	6	229	4M-66	ND	6.5	534220	4008293
S	6	335	TOH AH CHI	ND	6.5	530647	3997762
S	8	85		ND	6.5	510223	3976298
S	8	86	NEW SPRING	ND	6.5	502880	3981222
	Subtotal Moenkopi Wash 1882 Area				536		
S	4	211	3A-15	ND	6.5	484470	3994256
S	4	213	3A-23	ND	6.5	477791	3982620
S	4	214	3A-25	ND	6.5	478033	3980689
S	4	215	3B-265	ND	6.5	479964	3996187
S	4	216	3B-266	ND	6.5	479883	3996348
S	4	218	3GS-77-6	ND	6.5	479964	3996268
S	4	257		ND	6.5	475710	3993497
S	4	258		ND	6.5	476404	3994186
S	4	259		ND	6.5	478110	3984050
S	4	260		ND	6.5	477078	3987108

S	4	261	ND	6.5	475679	3993718
S	4	262	ND	6.5	477118	3994584
S	4	263	ND	6.5	477205	3994601
S	4	264	ND	6.5	477313	3994604
S	4	265	ND	6.5	480187	3995934
S	4	266	ND	6.5	480188	3995829
S	4	267	ND	6.5	480225	3995911
S	4	268	ND	6.5	480225	3995833
S	4	269	ND	6.5	480528	3995647
S	4	270	ND	6.5	480928	3996626
S	4	271	ND	6.5	480911	3995648
S	4	272	ND	6.5	480996	3995589
S	4	273	ND	6.5	481015	3995579
S	4	274	ND	6.5	481193	3995388
S	4	275	ND	6.5	481507	3995537
S	4	276	ND	6.5	481698	3995557
S	4	277	ND	6.5	482178	3995482
S	4	278	ND	6.5	482403	3995418
S	4	279	ND	6.5	482602	3995232
S	4	280	ND	6.5	482610	3995243
S	4	281	ND	6.5	482634	3995222
S	4	282	ND	6.5	482759	3995183
S	4	283	ND	6.5	482820	3995181
S	4	284	ND	6.5	482509	3994580
S	4	285	ND	6.5	482885	3995137
S	4	286	ND	6.5	483006	3995184
S	4	287	ND	6.5	483371	3995105
S	4	288	ND	6.5	483438	3995114
S	4	289	ND	6.5	483470	3995105
S	4	290	ND	6.5	483530	3995046
S	4	291	ND	6.5	483626	3995006
S	4	292	ND	6.5	484151	3995134
S	4	293	ND	6.5	484703	3995434
S	4	294	ND	6.5	484832	3995462
S	4	295	ND	6.5	484825	3995395
S	4	296	ND	6.5	485599	3995895
S	4	297	ND	6.5	485129	3995731
S	4	298	ND	6.5	485162	3995741
S	4	299	ND	6.5	484652	3993788
S	4	343 B	19	30.6	481740	4002033
S	4	344 B	19	30.6	481772	4002123
S	4	345 B	19	30.6	481704	4002166
S	4	346 B	19	30.6	481818	4002282
S	4	347 B	19	30.6	481863	4002344
S	4	348 B	19	30.6	481927	4002406
S	4	349 B	19	30.6	481869	4002507
S	4	350 B	19	30.6	481942	4002658
S	4	351 B	19	30.6	481939	4002730
S	4	352 B	19	30.6	481968	4002761
S	4	353 B	19	30.6	481978	4002789
S	4	354 B	19	30.6	481984	4002810
S	4	355 B	19	30.6	481999	4002830
S	4	356 B	19	30.6	481994	4002876
S	4	357 B	19	30.6	482103	4002910
S	4	358 B	19	30.6	482120	4002990
S	4	359 B	19	30.6	482128	4003133
S	4	360 B	ND	6.5	482340	4004173
		Subtotal Moenkopi Wash 1934 Area		845		

ORAIBI WASH

S	10	96	GOAT SPRINGS	ND	6.5	545329	3976347
S	10	98	ONION SPRINGS	1	6.5	546358	3983631
S	10	236	6K-310S	ND	6.5	545447	3982359
S	10	254	Harry K Spring	ND	6.5	546012	3977873
S	13	184	SHONTO SP	2	6.5	523141	3947847
S	13	185	06M-33	ND	6.5	525945	3947511
S	13	186	06M-32	ND	6.5	527208	3949509
S	13	187	06M-31	1	6.5	527803	3950371
S	13	188		ND	6.5	528094	3950662
S	13	253	6M-54	ND	6.5	523152	3947794
S	13	334	PA'UTSVI	ND	6.5	527564	3950372
S	6	248	4T-519/BM OBS 5	ND	6.5	544055	3985553
S	7	237	6K-314	ND	6.5	553705	3985666
S	7	238	6K-315	ND	6.5	553383	3984459
S	7	240	6M-130	ND	6.5	554187	3987275
S	8	243	6M-45	ND	6.5	521084	3957383
S	9	88	06-M58	ND	6.5	528120	3970972
S	9	89	DOVE SPRING	ND	6.5	531005	3973759
S	9	90	06M-72A	ND	6.5	530719	3975201
S	9	91		ND	6.5	532475	3976198
S	9	93	UNNAMED	ND	6.5	542779	3975164
S	9	94	BA DU WE SPRING	ND	6.5	542811	3978892
S	9	111		ND	6.5	532163	3972469
S	9	131	DOVE SP	ND	6.5	541987	3965065
S	9	132	CAVE SP	ND	6.5	539907	3967263
S	9	133	UNNAMED	ND	6.5	542489	3967768
S	9	134	UNNAMED	ND	6.5	542914	3967799
S	9	135	06M-39	ND	6.5	542972	3967993
S	9	163	06K-04S	ND	6.5	530014	3963034
S	9	303		ND	6.5	528384	3972144
S	9	304		ND	6.5	528824	3973060
S	9	305		ND	6.5	532504	3976289
S	9	307		ND	6.5	533884	3971212
S	9	308		ND	6.5	540415	3980705
S	9	342 B	Reservoir	ND	6.5	532474	3970112
		Subtotal Oraibi Wash 1882 Area			227.5		
		Subtotal Oraibi Wash 1934 Area			None		
POLACCA WASH							
S	10	97	CEREMONIAL FLUTE SPRING	ND	6.5	556217	3974758
S	10	99	SHEEP SP	ND	6.5	557247	3970162
S	10	100	06H-03	ND	6.5	558898	3971750
S	10	101	06H-02	ND	6.5	557001	3971776
S	10	102	WEPO SP	8	12.9	557252	3971904
S	10	103	UNNAMED SP	ND	6.5	557795	3972431
S	10	104	FLY SP	ND	6.5	560521	3972220
S	10	105	SAND SP	ND	6.5	558321	3974668
S	10	106	UNNAMED SP	ND	6.5	558370	3974760
S	10	107	DONKEY SP	ND	6.5	559458	3976986
S	10	108	MANURE SP	ND	6.5	563269	3979557
S	10	109	06H-12	ND	6.5	561067	3979893
S	10	110	CAT SP	ND	6.5	566726	3981978
S	10	136	06M-21	ND	6.5	546674	3962213
S	10	137	06M-20	ND	6.5	545347	3962252
S	10	138	DRIFTWOOD SP	ND	6.5	560351	3963651
S	10	139	AQWDA SP	ND	6.5	545643	3964054
S	10	140	AQIVA SP	ND	6.5	545639	3964662
S	10	141	TWAPA SP	ND	6.5	555224	3965139
S	10	142	UNNAMED SP	ND	6.5	554606	3966029
S	10	143	SPIDER SP	ND	6.5	554636	3966239

S	10	144	COYOTE SP	ND	6.5	555652	3965955
S	10	145	06M-68	ND	6.5	556328	3966628
S	10	146	BEAN SP	ND	6.5	556212	3969707
S	10	147	UNNAMED	ND	6.5	565340	3957463
S	10	148	BUHU VA SP	1	6.5	563208	3960744
S	10	149	06M-04	ND	6.5	566243	3961013
S	10	150	SACTONE SP	ND	6.5	567311	3964731
S	10	151	06M-67	ND	6.5	561061	3969880
S	10	205	7H-69	ND	6.5	561322	3975551
S	10	231	6H-1	ND	6.5	554482	3966144
S	10	232	6H-17	ND	6.5	546679	3962443
S	10	233	6H-20	ND	6.5	545389	3962443
S	10	234	6H-6	ND	6.5	556735	3970007
S	10	235	6H-7	ND	6.5	558183	3974754
S	10	239	6M-12	ND	6.5	565348	3959303
S	10	241	6M-302A	ND	6.5	556896	3970087
S	10	242	6M-302B	ND	6.5	556815	3970007
S	10	244	6M-68	ND	6.5	556134	3967095
S	10	245	6M-70	ND	6.5	548608	3975881
S	10	246	6M-9	ND	6.5	554723	3962765
S	10	250	6-F-1	ND	6.5	561136	3966214
S	10	251	6K-305-94	ND	6.5	554195	3956981
S	10	309		ND	6.5	553913	3970419
S	10	310	SAND SPRING	ND	6.5	558300	3976972
S	10	316		ND	6.5	566755	3968795
S	10	317	NEW WATER	ND	6.5	551800	3968096
S	10	318	BIG WATER	ND	6.5	550828	3968134
S	10	319	SAND WATER	ND	6.5	556134	3968390
S	10	320	SHORT ROOTS WATER	ND	6.5	554054	3964705
S	10	321	MANY WIND WATER	ND	6.5	553639	3957747
S	10	322		ND	6.5	545253	3963196
S	10	323		ND	6.5	545331	3963532
S	11	112	06M-82	ND	6.5	574950	3972580
S	11	113		ND	6.5	571591	3971633
S	11	114	D. LALO SP	ND	6.5	578047	3971831
S	11	115		ND	6.5	575304	3972924
S	11	116	07H-06	ND	6.5	586898	3973498
S	11	152		ND	6.5	568814	3959738
S	11	153		ND	6.5	569086	3960264
S	11	154	06M-11	2	6.5	568527	3960621
S	11	155		ND	6.5	570054	3962391
S	11	156		ND	6.5	569893	3962665
S	11	157	06K-09S	ND	6.5	572525	3963342
S	11	158	06K-05S	ND	6.5	573286	3962529
S	11	159	06K-01S	ND	6.5	574143	3962438
S	11	160		ND	6.5	575038	3962861
S	11	161	06K-02S	ND	6.5	575274	3963157
S	11	162	06K-03S	ND	6.5	575376	3963215
S	11	164	06K-14S	ND	6.5	575788	3963423
S	11	165	06K-13S	ND	6.5	575898	3963513
S	11	166	06K-07S	ND	6.5	577000	3964541
S	11	167		ND	6.5	574108	3966159
S	11	168	06K-308S	ND	6.5	574953	3967121
S	11	169	BYRON ADAMS SP	ND	6.5	577076	3968156
S	11	170	06A-21A	ND	6.5	576519	3968917
S	11	171	06-24	ND	6.5	570685	3967456
S	11	255	Keams Cyn Spring	ND	6.5	575206	3963310
S	11	311	ECHO SPRING	ND	6.5	575792	3972672
S	11	312		ND	6.5	570499	3967544
S	11	313		ND	6.5	570596	3964840

S	11	314		ND	6.5	571908	3963617
S	11	315	CORNER SPRING	ND	6.5	568501	3960533
S	11	338		ND	6.5	575722	3974996
S	13	189	06M-24	ND	6.5	539495	3945376
S	13	190		ND	6.5	541056	3946627
S	13	191	06M-27A	ND	6.5	538897	3947985
S	13	249	6-2B-4-B	ND	6.5	530051	3944488
S	13	256	Rock Ledge Spring	ND	6.5	540350	3947209
S	7	78	HASTIIN AKAHIBITO	ND	6.5	561528	3985596
S	7	79	04M-105	ND	6.5	561541	3987199
S	7	80	UNNAMED SPRING	ND	6.5	561516	3987322
S	7	81	04M-102	ND	6.5	562334	3988313
S	7	82	UNNAMED SPRING	ND	6.5	562209	3988374
S	7	83	04M-104	ND	6.5	561730	3988802
S	7	220	4M-103	ND	6.5	562556	3988080
S	7	221	4M-105A	ND	6.5	561349	3985505
S	9	120	STINK BUG SP	ND	6.5	542215	3962036
S	9	121	GROOMING SPRING	ND	6.5	543037	3962324
S	9	122	06H-27	ND	6.5	542239	3962375
S	9	123	WHITE HALL SP	ND	6.5	542606	3962889
S	9	124	WHITE HALL SP	ND	6.5	542616	3962928
S	9	125	UNNMAED	ND	6.5	543265	3962935
S	9	126	CORNER	ND	6.5	542677	3963275
S	9	127	SUEIVA SP	ND	6.5	542588	3963274
S	9	128	BLUEBIRD SP	ND	6.5	541757	3963451
S	9	129	SHADED SP	ND	6.5	543085	3963704
S	9	130	06H-24	ND	6.5	544539	3965237
S	9	324	GRAY SPRING	ND	6.5	543259	3961687
S	9	325	LOMOVA	ND	6.5	543262	3961690
S	9	326	SONGOOPA	ND	6.5	543153	3962165
S	9	340 B	Iskasokpu	ND	6.5	542620	3964830
S	9	341 B	Tuyqavi	ND	6.5	542633	3963279
		Subtotal Polacca Wash 1882 Area			740.9		
		Subtotal Polacca Wash 1934 Area			None		
Pueblo Colorado							
S	15	332	COW SPRING	ND	6.5	589485	3950372
		Subtotal Pueblo Colorado 1882 Area			6.5		
		Subtotal Pueblo Colorado 1934 Area			None		

Total For All Drainages in 1882 Area	1913.6 A/F
Total For All Drainages in 1934 Area	845.2 A/F

Notes:
1/ The plates documenting the individual springs are presented in Appendix D.
2/ Springs may be used for a variety purposes.
3/ Springs added in 2005 are denoted by a B in this column.
4/ For springs without documented yields, use a default vaule of 4 gpm which is representative for this class of facilities.
5/ The X and Y values are the coordinates for the location of the spring in UTM Zone 12 North American Datum 1927.

ITEM
#9

Development of surface water resources.

LITTLE COLORADO RIVER BASIN

ARIZONA-NEW MEXICO

Working Paper No. 6 (Final)

DEVELOPMENT OF SURFACE WATER RESOURCES

Prepared by

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ECONOMICS AND STATISTICS SERVICE
FOREST SERVICE
IN COOPERATION WITH THE STATES OF
ARIZONA AND NEW MEXICO

Principal Authors
John Weaver (SCS)
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November 1980

10. USDA 1980. 01

TABLE 3
Existing Reservoirs & Lakes
Little Colorado River Basin

Map No.	Name	Location	Stream or Tributary	Drainage Area (Mi.)	Type of Structure	Primary Uses	Height or Water Depth (Ft.)	Capacity (AF)	Surface Area (Ac.)	Land Status	Irrigation Water User	Needs	Remarks
	NAVAJO COUNTY, ARIZONA												
	Baird (See Love Lake)												
89	Big Mountain Dam	S25,T32N,R17E	Offstream-Dinnebito Wash	211.0	Earth	Se, F	60.0	1,600.0	300	Indian Trust (Navajo)			Complete silted in
90	Bills Lake	S7,T11N,R22E	Tr-Silver Cr.	0.2	Earth	R, W	15.0	60.0	5	Private		Work on embankment & spillway	
91*	Black Canyon Lake 7/	S24,T11N,R15E	Black Canyon Creek	5.8	Earth	R, W	69.0	1,581.0	78	USFS			Aquatic weed problem at times
92	Chevelon Diversion	S23,T18N,R17E	Chevelon Cr.	815.7	Concrete	W, I(not in use)	6.0	30	5	Private	Chevelon Irrig. Co.		Irrig. diversion not in use. D.A. includes 38.2 sq.mi.non-contributing.
	Chevelon Cr. Wildlife Area (see Hugo Meadows)												
93*	Cholla-Bottom Ash Pond	S13,23,24,T18N, R19E	Offstream-Tanner Wash	0.0	Earth	D	70.0	2,300.0	88	Private			Power plant ash disposal
94*	Cholla-Fly Ash Pond	S30,T18N,R20E	Offstream-Little Colo.	2.5	Earth	D	80.0	16,500.0	440	Private			Power plant ash disposal
95*	Cholla Lake	S25,T18N,R19E	Offstream-Little Colo.	0.0	Earth	R, W, C	5.0	1,800.0	360	Private			Power plant cooling pond
96*	Clear Creek Res.	S10,T18N,R16E	Clear Creek	608.0	Masonry	I, R, W	13.0	350.0	50	State,Private	City of Winslow	Sediment removal	New dam being constructed downstream
	Daggs (see White Mountain Lake)												
97	Decker Pond	S19,T12N,R22E	Walnut Draw	8.7	Earth	R, W	20.0	100.0	10	Private			Excellent wildlife habitat
98	Dry Lake	S2,T14N,R18E	Phoenix Park Wash	124.0	Basin	D	-	WNK	1,500	State,Private		Treatment for strong odors	Waste water from pulp mill
99	Duck Lake	S13,T11N,R22E	Silver Creek	62.0	Masonry	R, W	20.0	200.0	14	Private			Excellent wildlife habitat
100*	Five Mile Wash	S29,T17N,R21E	Five Mile Wash	6.1	Earth	St, Se	25.0	15.0		State(ADOT)			Highway fill
101*	Fools Hollow 7/	S12,R10N,R21E	Showlow Cr.	109.0	Earth	R, W	60.0	3,217.0	149	Private,State		Aquatic weed control	
102	Jacks Lake	S5,T12N,R21E	Offstream-Silver Creek Dobson Wash	0.0	Earth	R, W	23.0	20.0	1	Private			Supplied by well from ground water
	Jacques (see Showlow)												
103	Hugo Meadows (3 ponds) (Chevelon Wildlife)	S23,26,T18N, R17E	Offstream-Chevelon Cr.	22.8	Earth	W	1,1,2	10,60,100	10,50,60	State (AZ G&F)			Wildlife area, water obtained by pump from Chevelon Creek
104	Kaufman No. 2	S4,T18N,R16E	Salt Creek	321.8	Masonry	R, Se	10.0	--	--	BLM			Completely silted in
105	Kaufman Recreation	S4,T18N,R16E	Salt Creek	321.8	Earth	R	10.0	115.0		Private			Filled by Diversion fr.Kaufman #2.Structure has failed.
106	Keems Canyon Lake	S23,T28N,R20E	Keems Canyon Wash	5.0	Earth	R, W, F	50.0	75.0	2	Indian Trust (Hopi)			Completely silted in.
107	Lake Maho	S23,T28N,R20E	Keems Canyon Wash	5.0	Earth	I, F, W	60.0	130.0	3	Indian Trust (Hopi)			Silted in
	Lakeside (see Rainbow)												
108	Lakeside No. 1	S26,T9N,R22E	Walnut Creek	10.0	Concrete	R, P(not in use)	19.5	--	--	Private			Originally for power. Structure has failed.
109	Lakeside Coffer Dam	S23,T9N,R22E	Walnut Creek	11.5	Earth	I, R	14.0	3.0	1	Private	Showlow Irrig. Co.		Irrigation diversion dam
110*	Lake of the Woods	S23,T9N,R22E	Walnut Creek	11.6	Earth	R, W	14.0	120.0	20	Private		Aquatic weed control	
111	Little Mormon	S12,T10N,R22E	Tr-Silver Cr.	33.7 6/	Basin	R, W	38.0	1,400.0	125	USFS			Ditch from Rocky Arroyo. Storage rights are held by the Silver Creek Irrigation District.
112	Long Lake	S10,T10N,R22E	Tr-Showlow Creek	9.5	Basin	St., W	--	1,500.0	372	USFS			Normally dry 8/
113*	Lone Pine	S14,T11N,R21E	Showlow Cr.	154.3	Earth	I,F,St,W	95.0	10,045.0	350	USFS	Silver Cr. Irrig.Dist. 8/	Seepage control	High seepage losses
114	Love Lake (Baird)	S33,T12N,R22E	Walnut Draw	4.7	Earth	I, W	11.0	12.0	20	Private	J. Baird		Good wildlife habitat
115	Martinez Lake	S28,T11N,R23E	Offstream-Brown Creek	52.5 6/	Earth	I,St,W	12.0	500.0	100	Private	Silver Cr. Irrig.Dist.	Silt removal & enlargement	Ditch from Brown Cr.,approx. 51.0 sq. mi. diverted
116	Merkley	S31,T11N,R20E	Tr-Pinedale Wash	0.4	Earth	St	14.0	24.0	5	USFS			Normally dry

TABLE 3
Existing Reservoirs & Lakes
Little Colorado River Basin

Map No.	Name	Location	Stream or Tributary	Drainage Area (Mi.)	Type of Structure	Primary Uses	Height or Water Depth (Ft.)	Capacity (AF)	Surface Area (Ac.)	Land Status	Irrigation Water User	Needs	Remarks
117	Mexican Lake	S11,T11N,R22E	Tr-Silver Cr.	134.5	Earth	I,F,W	12.0	1,100.0	128	Private	Silver Creek Irrigation District		Filled by high stage overflow from Daggs.
118*	Millet Swale	S20,T12N,R22E	Millet Swale	40.0	Earth	F,Se,St	25.4	1,342.0	199	Private		Repairs on outlet works	No permanent storage.
119	Ned Lake	S6,T10N,R22E	Tr-Showlow Cr	0.1	Basin	D			10	USFS			Disposal of sewage effluent from City of Show Low, AZ.
120	Pinetop Dam (Fish Hatchery)	S4,T8N,R23E	Billy Creek	2.0	Concrete	W	13.5			Private			Old fish hatchery not, in use.
121	Pine Lake	S5,T8N,R23E	Walnut Creek	1.0	Earth,Basin	I,R,W	12.0	450.0	54	Private	Showlow Irrigation Company		
122	Polacca Dam 2	S4,T27N,R18E	Polacca Wash	511.0	Earth	Se	47.0	3,000.0+		Indian Trust (Hopi)			Waterspreader. Completely filled with sediment.
123	Porter Spring Rearing Pond	S18,T9N,R23E	Porter Spring	1.0/0.4	Earth & Rock	I,W	19.0/15.0	15.0/25.0	1.5/2.5	Private	Showlow Irrigation Company	Work on emergency spillway (Dam 2)	
124*	Rainbow Lake (Lakeside)	S23,T9N,R22E	Walnut Creek	11.5	Earth	I,R,W	19.0	1,200.0	154	Private	Showlow Irrigation Company		
125	Rattlesnake Tank	S5,T11N,R20E	Rattlesnake Draw	2.4	Earthfill	St,W	11.0	2.0	1	USFS		Bank slopes flattened	
126	Rock Lake	S7,T11N,R22E	Tr.-Silver Creek	.3	Pit	R	10.0	15.0	2	Private			
127	Salmon Lake	S6,T11N,R22E	Tr.-Silver Creek	1.0	Earth	R	15.0	50.0	3	Private		Aquatic weed control	Steep embankment slopes.
128*	Scott Reservoir	S13,T9N,R22E	Porter Creek	34.5	Earth	I,R,W	37.0	1,450	75	Private	Showlow Irrig. Co.	Improved access & recreation	
129	Shafer Lake	S6,T11N,R22E	Tr.-Silver Creek	1.0	Earth	R	15.0	130.0	13	Private		Riprap on dam	Filled by well.
130*	Showlow Lake (Jacques)	S10,T9N,R22E	Showlow Creek	73.0	Earth & Rock	R, W	73.0	6,200	200	Private			Interbasin transfer of water to Salt River drainage, 1,070 AF dead storage.
131	Telephone Lake	S6,T10N,R22E	Tr.-Showlow Creek	0.2	Basin	D	--	--	23	USFS			Disposal of sewage effluent from City of Show Low, AZ.
132*	Trophy Lake	S7,T11N,R22E	Tr.-Silver Creek	0.26	Earth	R	20.0	70.0	6	Private			Membership fishing lake
133	Twin Dams	T28N,R21E	Keems Canyon Wash	3.9	Earth	F	30.0	1,500.0	150	Indian Trust (Hopi)			
134	Whipple Lake	S11,T10N,R22E	Tr.-Showlow Creek	35.2 1.5unc**	Basin	St, W	--	--	87	USFS			Normally dry, receives high stage overflow fr. Little Mormon.
135*	White Mountain Lake (Daggs)	S10,T11N,R22E	Silver Creek	134.5	Earth	I,R,W	60.0	3,500.0	283	Private			6.3 sq. mi. non-contributing.
136*	Woodland Reservoir	S31,T9N,R23E	Walnut Creek	5.3	Earth	I,R,W	18.0	140	23	USFS	Woodland Irrigation Company	Gate repair	Receives some water diverted from Billy Creek.
137	Woodruff Lake	S16,T16N,R22E	Offstream-Little Colo.	1.0	Basin & Earth	W				State			Normally dry. Use to be filled by ditch from Woodruff Reservoir.
138*	Woodruff Reservoir	S32,T16N,R22E	Silver Creek	942.0	Concrete	I,R,W	25.0	5.0	3	Private	Woodruff Irrigation District	Silt removal, recreation facilities	Old diversion dam for irrigation. Not in use.

ITEM
#12

U.S. Department of the Interior
U.S. Geological Survey

Ground-Water, Surface-Water, and Water-Chemistry Data, Black Mesa Area, Northeastern Arizona—2003–04

Open-File Report 2005–1080

Prepared in cooperation with the
ARIZONA DEPARTMENT OF WATER RESOURCES and BUREAU OF INDIAN AFFAIRS

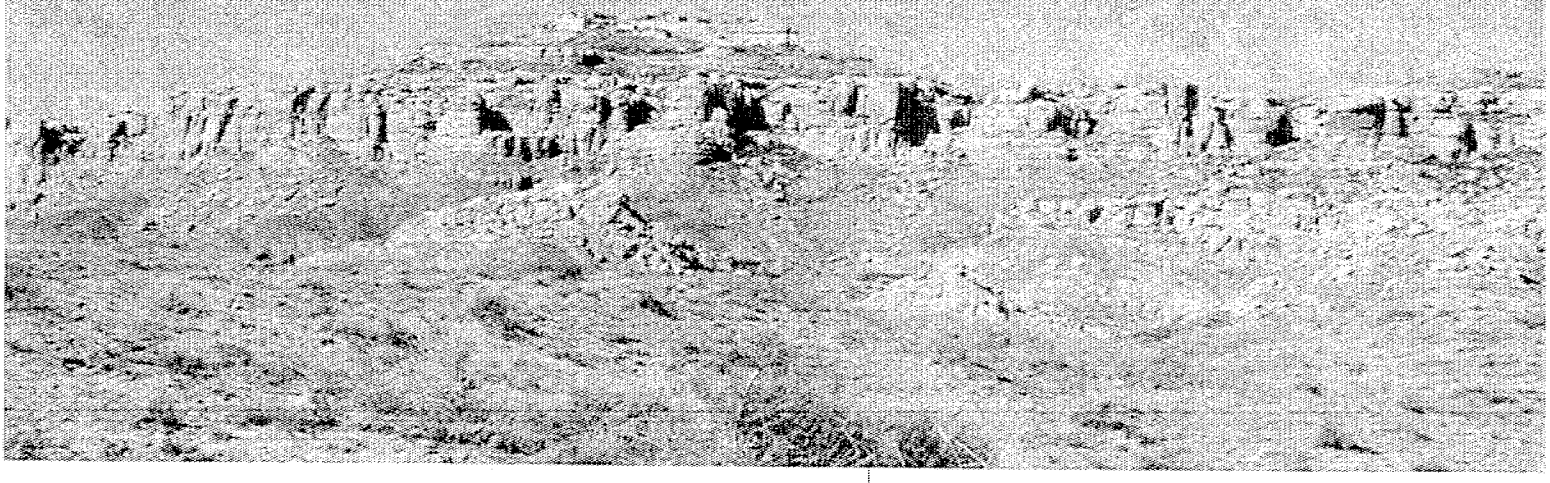

Table 3. Withdrawals from the N aquifer by well system, Black Mesa area, Arizona, 2003

[Withdrawals, in acre-feet, are from flowmeter measurements. BIA, Bureau of Indian Affairs; NTUA, Navajo Tribal Utility Authority; USGS, U.S. Geological Survey; Peabody, Peabody Western Coal Company; Hopi, Hopi Village Administrations]

Well system (one or more wells)	Owner	Source of data	Withdrawals	
			Confined aquifer	Unconfined aquifer
Chilchinbito	BIA	USGS/BIA	3.9	
Dennehotso	BIA	USGS/BIA		22.6
Hopi High School	BIA	USGS/BIA	68.1	
Hotevilla	BIA	USGS/BIA	21.3	
Kayenta	BIA	USGS/BIA	45.4	
Keams Canyon	BIA	USGS/BIA	20.1	
Low Mountain	BIA	USGS/BIA	[1]0	
Piñon	BIA	USGS/BIA	[1]0	
Red Lake	BIA	USGS/BIA		8.4
Rocky Ridge	BIA	USGS/BIA	11.5	
Rough Rock	BIA	USGS/BIA	34.3	
Second Mesa	BIA	USGS/BIA	5.3	
Shonto	BIA	USGS/BIA		160.6
Tuba City	BIA	USGS/BIA		96.5
Chilchinbito	NTUA	USGS/NTUA	11.8	
Dennehotso	NTUA	USGS/NTUA		41.4
Forest Lake	NTUA	USGS/NTUA	10.2	
Hard Rock	NTUA	USGS/NTUA	37.0	
Kayenta	NTUA	USGS/NTUA	470.5	
Kitsillie	NTUA	USGS/NTUA	44.5	
Piñon	NTUA	USGS/NTUA	316	
Red Lake	NTUA	USGS/NTUA		51.4
Rough Rock	NTUA	USGS/NTUA	8.1	
Shonto	NTUA	USGS/NTUA		117.7
Shonto Junction	NTUA	USGS/NTUA		72.9
Tuba City	NTUA	USGS/NTUA		771.8
Mine Well Field	Peabody	Peabody	[2]4,448.9	
Bacavi	Hopi	USGS/Hopi	21.9	
Hopi Civic Center	Hopi	USGS/Hopi	3.7	
Hopi Cultural Center	Hopi	USGS/Hopi	6.8	
Kykotsmovi	Hopi	USGS/Hopi	62.2	
Mishongnovi	Hopi	USGS/Hopi	19.9	
Moenkopi	Hopi	USGS/Hopi		93.5
Polacca	Hopi	USGS/Hopi	[3]74.4	
Shipaulovi	Hopi	USGS/Hopi	18.6	
Shungopovi	Hopi	USGS/Hopi	34.9	

[1]Well taken out of service.

[2]Industrial pumpage.

[3]Estimated. Well PM4 not metered. Annual pumpage from PM4 was estimated as 40 acre-feet on the basis of previous metered data and a per capita consumption of 40 gallons per day. Pumping from the remaining wells (PM5 and PM6) may include some water from the D aquifer.

A-4
Allotted and Other Lands

THOMAS L. SANSONETTI
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Environment and Natural Resources Division
United States Department of Justice

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RECEIVED
AUG 16 2002
DOCKET
DEPT. OF WATER RESOURCES

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 SUBMISSION TO ADWR PURSUANT TO COURT ORDER, DATED JULY 16, 2002, REQUIRING INFORMATION REGARDING HOPI ALLOTTED LANDS

DESCRIPTIVE SUMMARY:	This Submission to ADWR provides information regarding the Hopi allotted lands to which the United States asserts water right claims on behalf of the Hopi Tribe, its members and Hopi allottees.
NUMBER OF PAGES:	3
DATE OF FILING:	August 16, 2002

Pursuant to Paragraph 4 of the Court Order, dated July 16, 2002, the United States hereby submits the following information to ADWR regarding Hopi allotted lands.

SUBMISSION OVERVIEW

An overview of the Hopi allotted lands is provided in the table attached hereto at Tab 1. The table outlines the location of each allotted parcel as well as the corresponding irrigated areas, annual diversions and annual depletions. The United States notes that the attached

information regarding Hopi allotted lands is preliminary and subject to changes resulting from further study in the future. The United States asserts water right claims regarding the Hopi allotted lands on behalf of the Hopi Tribe, its members and Hopi allottees. In addition, attached hereto at Tab 2, is a series of color maps wherein each allotted tract of land is also identified and located. A copy of the Notice of Submission informing the Court and other parties that this Submission has been filed with ADWR is provided at Tab 3.

Respectfully submitted, this 15th day of August 2002.

VANESSA L. BOYD
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Indian Resources Section
Environment and Natural Resources Division
United States Department of Justice
999 18th Street, Suite 945
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CERTIFICATE OF SERVICE

I hereby declare under penalty of perjury, that on August 15th, 2002, I served a true and correct copy of the SUBMISSION TO ADWR PURSUANT TO COURT ORDER, DATED JULY 16, 2002, REQUIRING INFORMATION REGARDING HOPI ALLOTTED LANDS, by Federal Express, to the Arizona Department of Water Resources, Janet L. Ronald, 500 North 3rd Street, Phoenix, AZ, 85004-390.

Vanessa Boyd

Vanessa L. Boyd

Hopi Allotments, Little Colorado River Adjudication

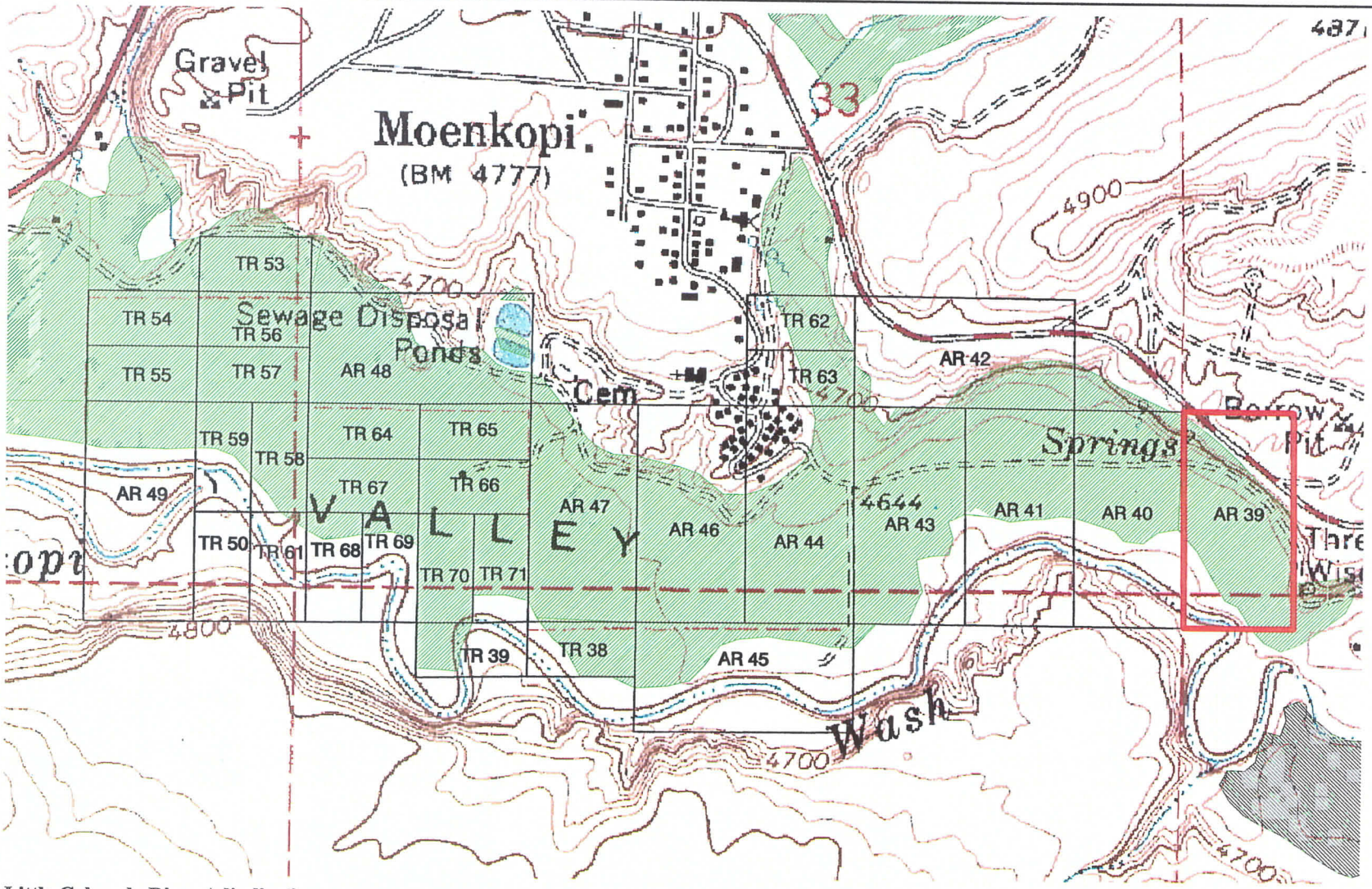
Township	Range	Section	Parcel/ Allotment Number	Deeded Area (acres)	Irrigated Area (acres)	Annual Diversion (ac-ft)	Annual Depletion (ac-ft)
32	11	33	AR47	19.7	17.7	35.6	32.0
32	11	32	AR49	19.940	3.154	6.3	5.7
32	11	33	AR48	20.280	15.834	31.8	28.7
32	11	33	AR46	19.940	14.246	28.6	25.8
32	11	33	AR40	20.000	10.853	21.8	19.6
32	11	33	AR41	19.9	10.0	20.1	18.1
32	11	33	AR42	20.1	4.4	8.8	8.0
32	11	33	AR43	20.380	16.350	32.9	29.6
32	11	33	AR44	19.880	16.573	33.3	30.0
31	11	4	AR45	20.040	4.770	9.6	8.6
32	11	34	AR39	20.000	12.27	24.7	22.2
31	11	4	TR38	5.0	2.780	5.6	5.0
31	11	4	TR39	4.930	1.402	2.8	2.5
32	11	32	TR53	5.090	5.053	10.2	9.1
32	11	32	TR54	5.000	5.003	10.1	9.1
32	11	32	TR55	5.000	5.001	10.1	9.1
32	11	32	TR56	5.090	5.053	10.2	9.1
32	11	32	TR57	5.090	5.180	10.4	9.4
32	11	32	TR58	5.090	4.196	8.4	7.6
32	11	32	TR59	5.090	1.888	3.8	3.4
32	11	32	TR61	5.090	0.056	0.1	0.1
32	11	33	TR62	4.940	2.547	5.1	4.6
32	11	33	TR63	4.940	2.368	4.8	4.3
32	11	33	TR64	5.090	4.996	10.0	9.0
32	11	33	TR65	5.090	5.066	10.2	9.2
32	11	33	TR66	5.090	5.093	10.2	9.2
32	11	33	TR67	5.090	5.088	10.2	9.2
32	11	33	TR69	5.090	0.814	1.6	1.5
32	11	33	TR68	5.090	0.691	1.4	1.3
32	11	33	TR70	5.090	4.910	9.9	8.9
32	11	33	TR71	5.090	3.583	7.2	6.5
Total				**301.53**	**179.218**	**360.2**	**324.4**

Summary of Irrigated acreage, diversion, and depletion.

	Irrigated Area (acres)	Annual Diversion (ac-ft)	Annual Diversion Rate (ac-ft/ac)	Annual Depletion (ac-ft)	Annual Depletion Rate (ac-ft/ac)
Total	**179.218**	**360.2**	**2.01**	**324.4**	**1.81**

Notes:

Irrigation acreage provided by John Cawley (BIA, Albuquerque) from maps created by Ebert and Associates.
Missing Parcel Numbers AR 41, AR 42 acreage is calculated from Ebert and Associates June 2000 coverage.
All irrigated land is irrigated from a perennial water supply.
Tract TR 38 deeded acreage was changed from 19.68 to 5.0 acres based on map parcel size.



Little Colorado River Adjudication

Allotment ID: AR 39
Deeded Acres: 20.000
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 34

Total Field Acreage in Allotment: 12.270 ac
Total Irrigated Field Acreage: 12.270 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 12.270 ac

Data Obtained From: Ebert and Associates, Inc., June 2000

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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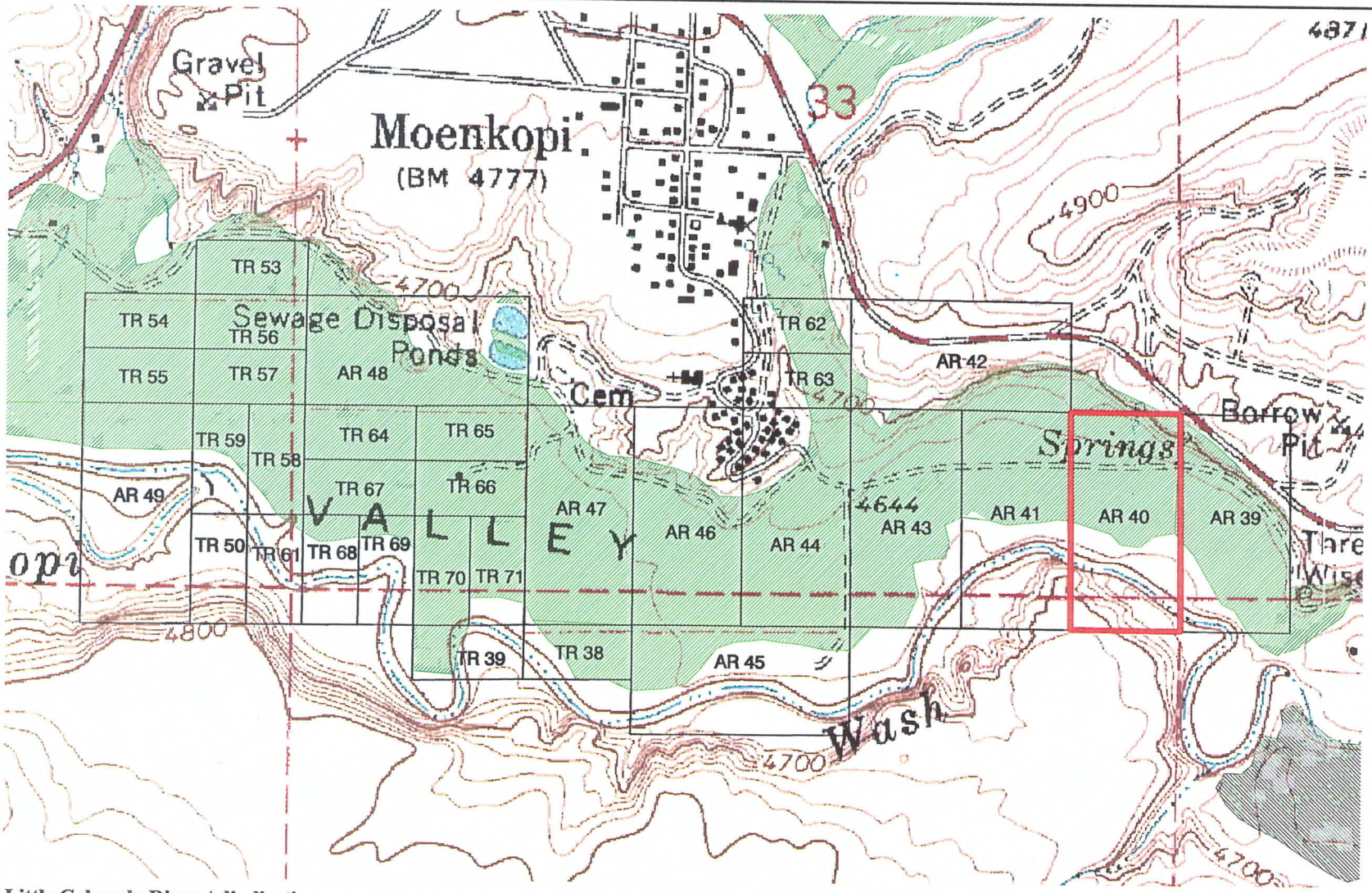

Little Colorado River Adjudication

Allotment ID: AR 40
Deeded Acres: 20.000
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 10.853 ac
Total Irrigated Field Acreage: 10.853 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 10.853 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale In Feet

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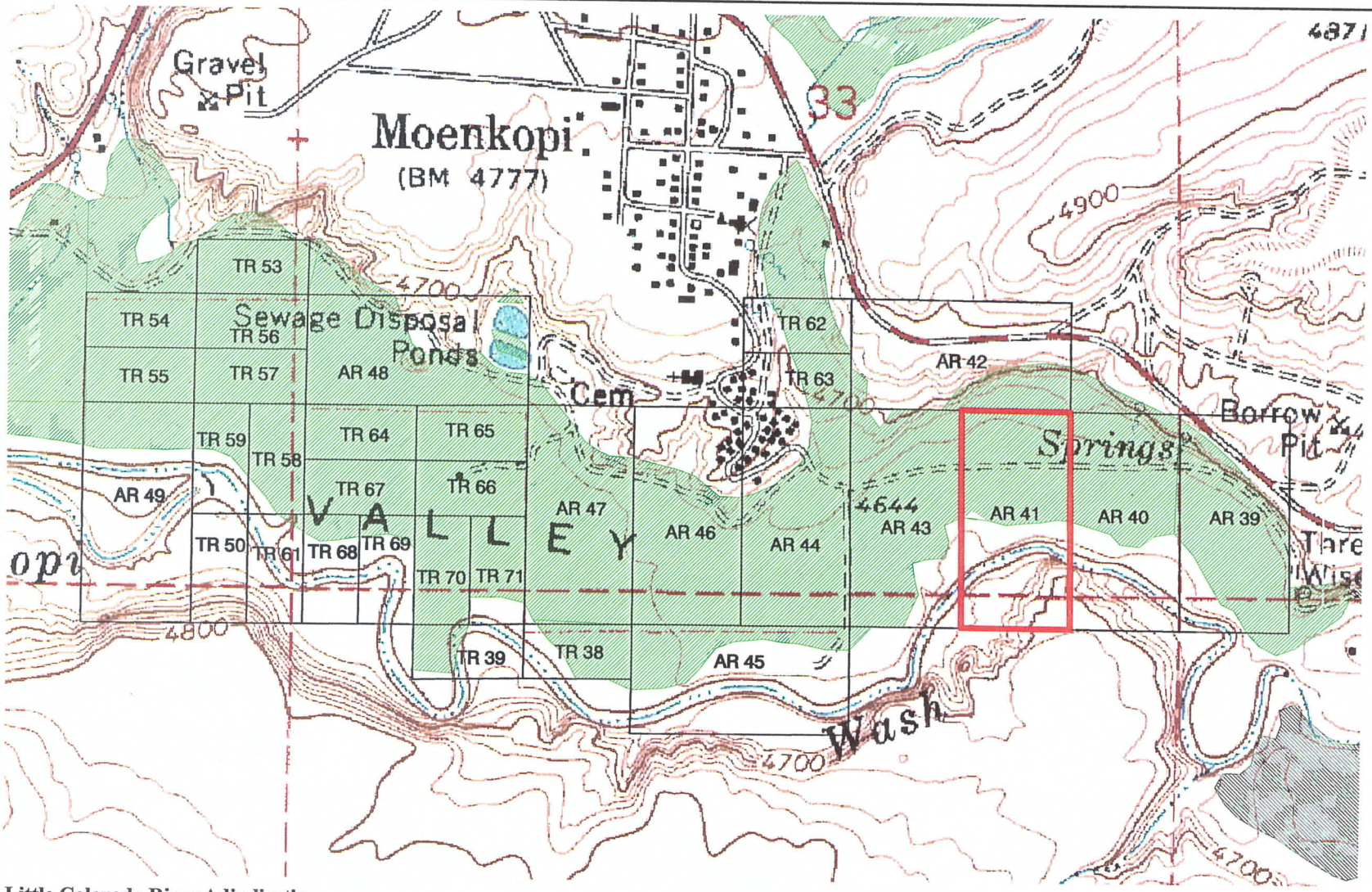

Little Colorado River Adjudication

Allotment ID: AR 41
Deeded Acres: 19.9
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 10.0 ac
Total Irrigated Field Acreage: 10.0 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 10.0 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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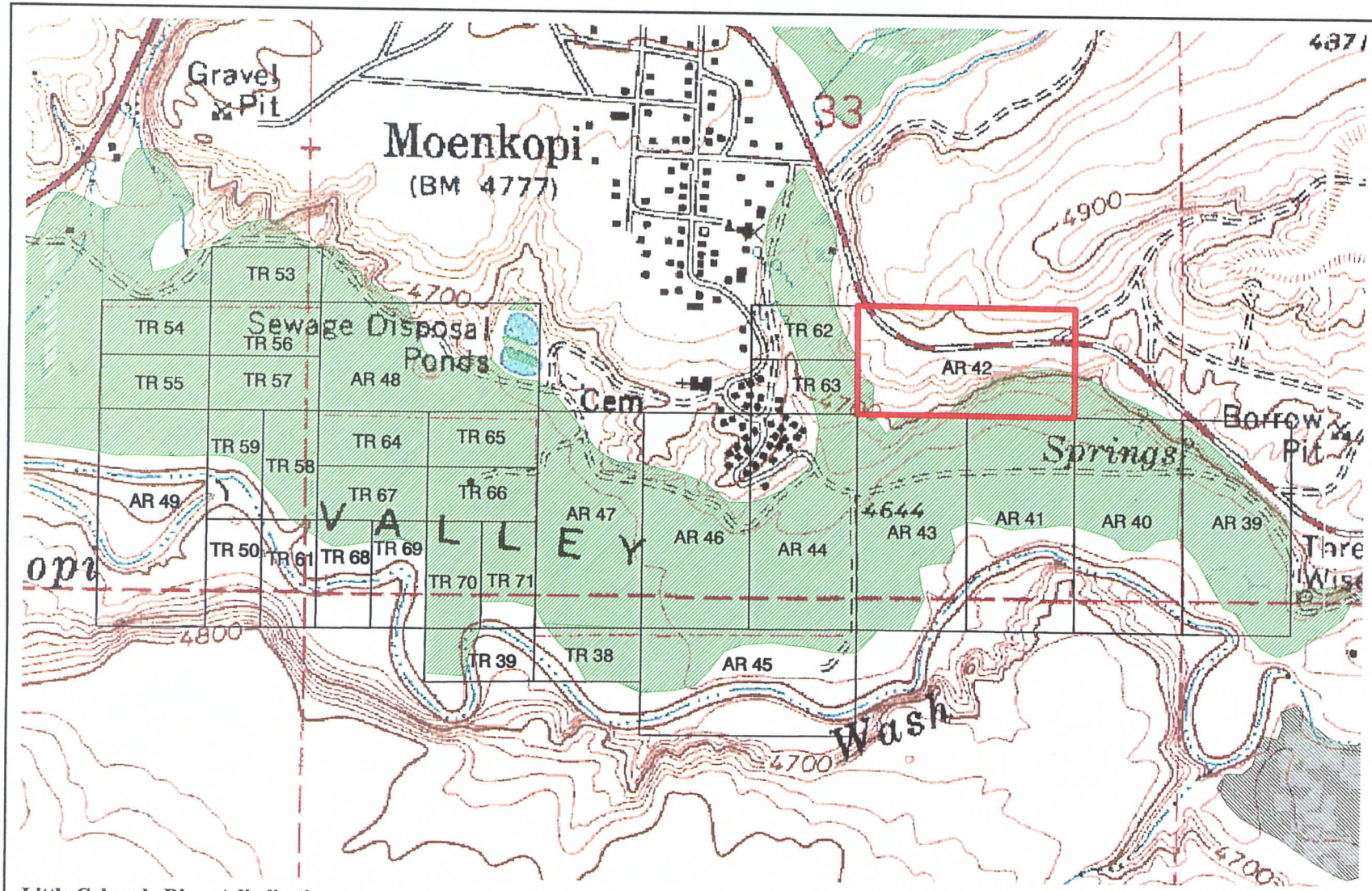

Little Colorado River Adjudication

Allotment ID: AR 42
Deeded Acres: 20.1
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 4.4 ac
Total Irrigated Field Acreage: 4.4 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 4.4 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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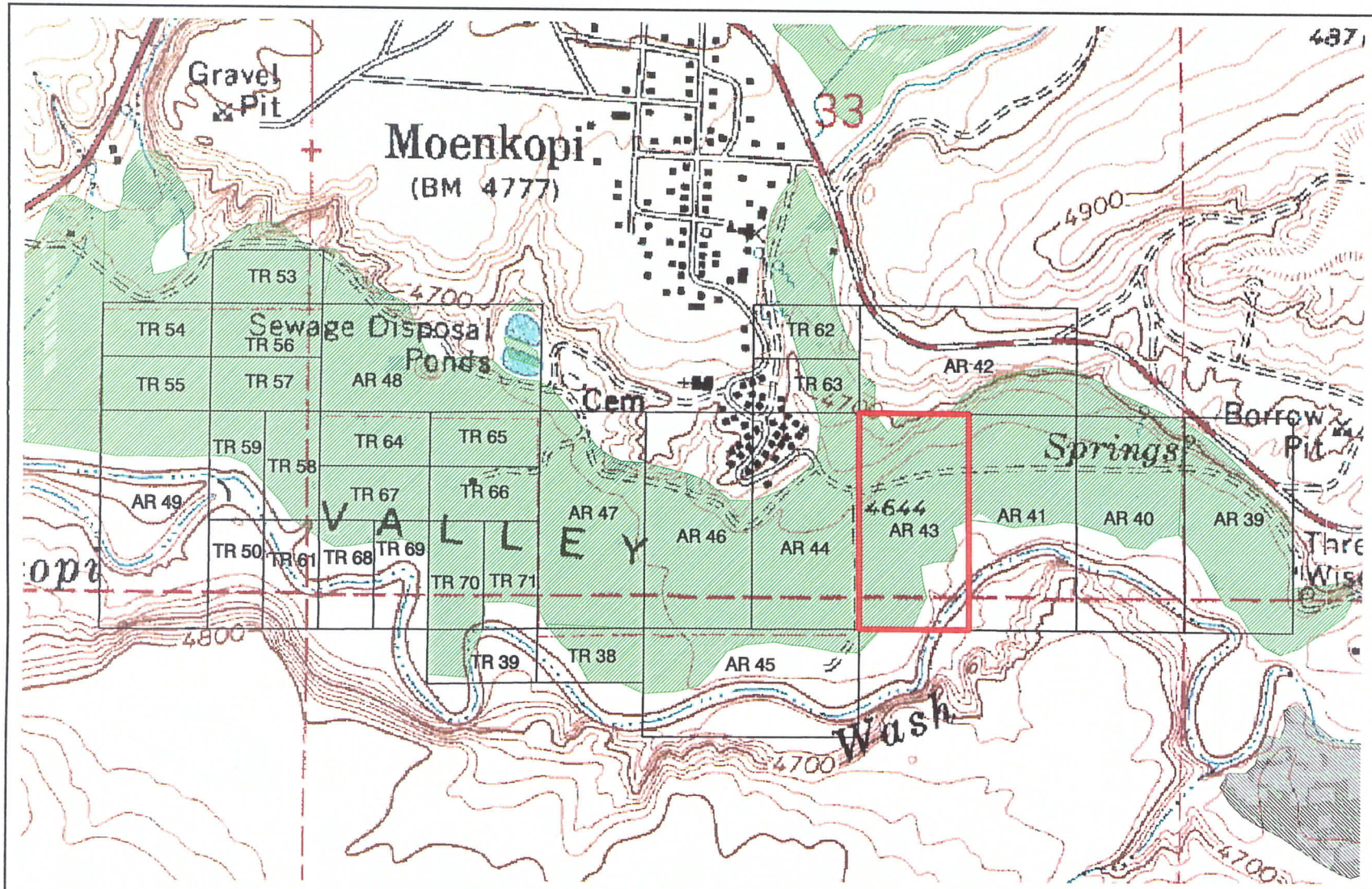
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: AR 43
Deeded Acres: 20.380
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 16.350 ac
Total Irrigated Field Acreage: 16.350 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 16.350 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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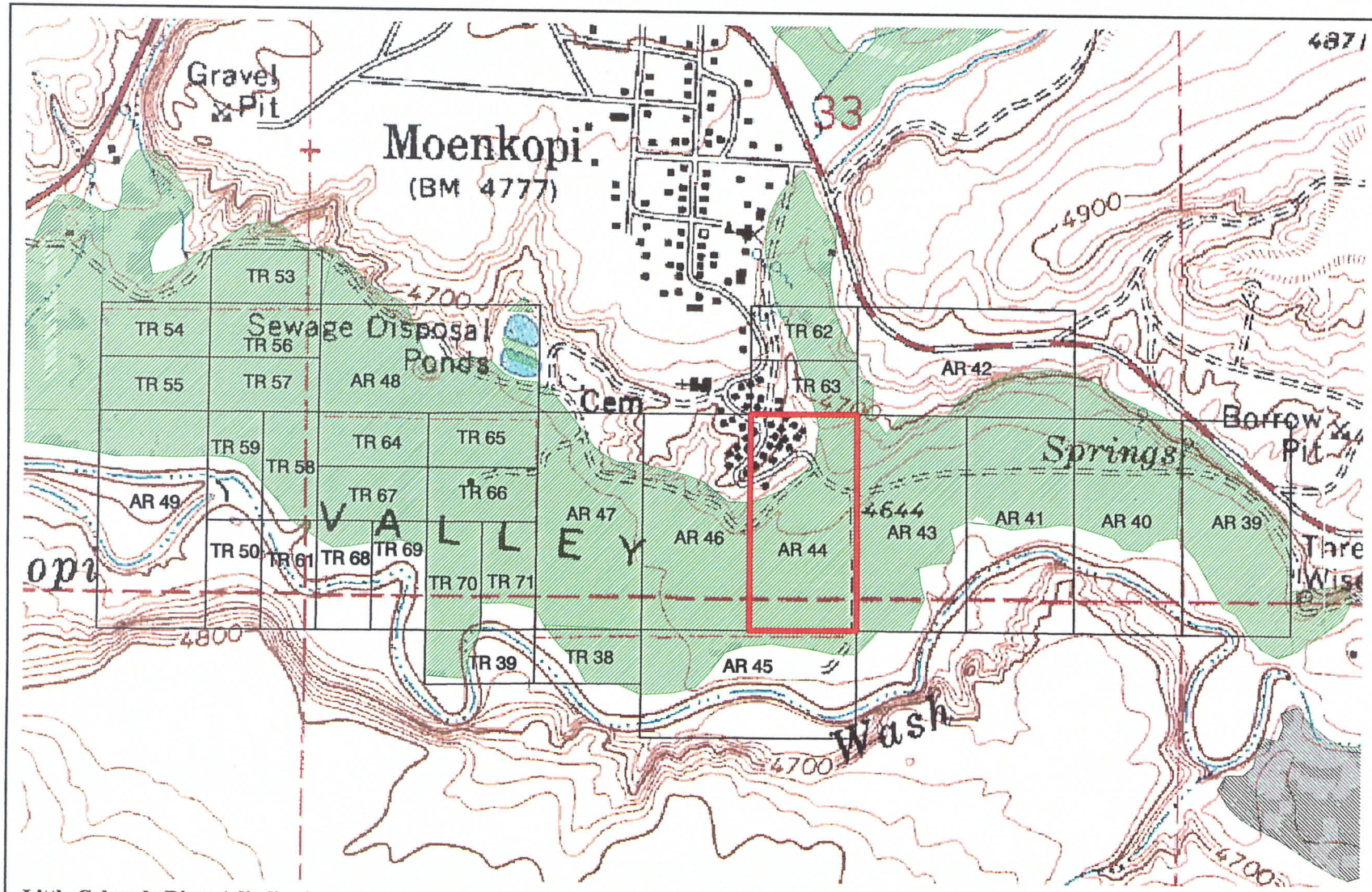
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: AR 44
Deeded Acres: 19.880
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 16.573 ac
Total Irrigated Field Acreage: 16.573 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 16.573 ac

Data Obtained From: Ebert and Associates, Inc., June 2000

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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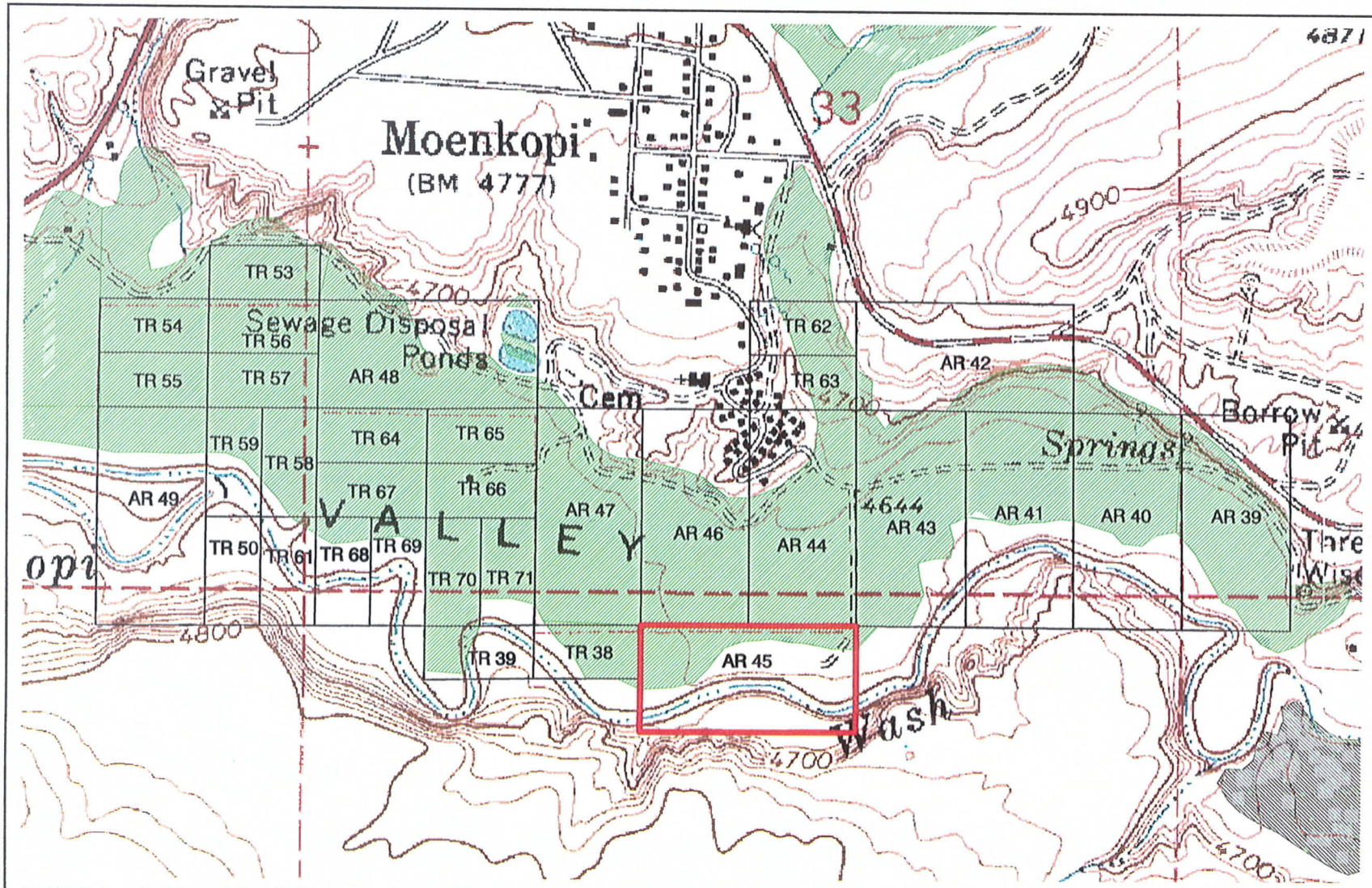

Little Colorado River Adjudication

Allotment ID: AR 45
Deeded Acres: 20.040
Reservation: Hopi
Quadrangle: Moenkopi

Township: 31 N
Range: 11 E
Section: 4

Total Field Acreage in Allotment: 4.77 ac
Total Irrigated Field Acreage: 4.77 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 4.77 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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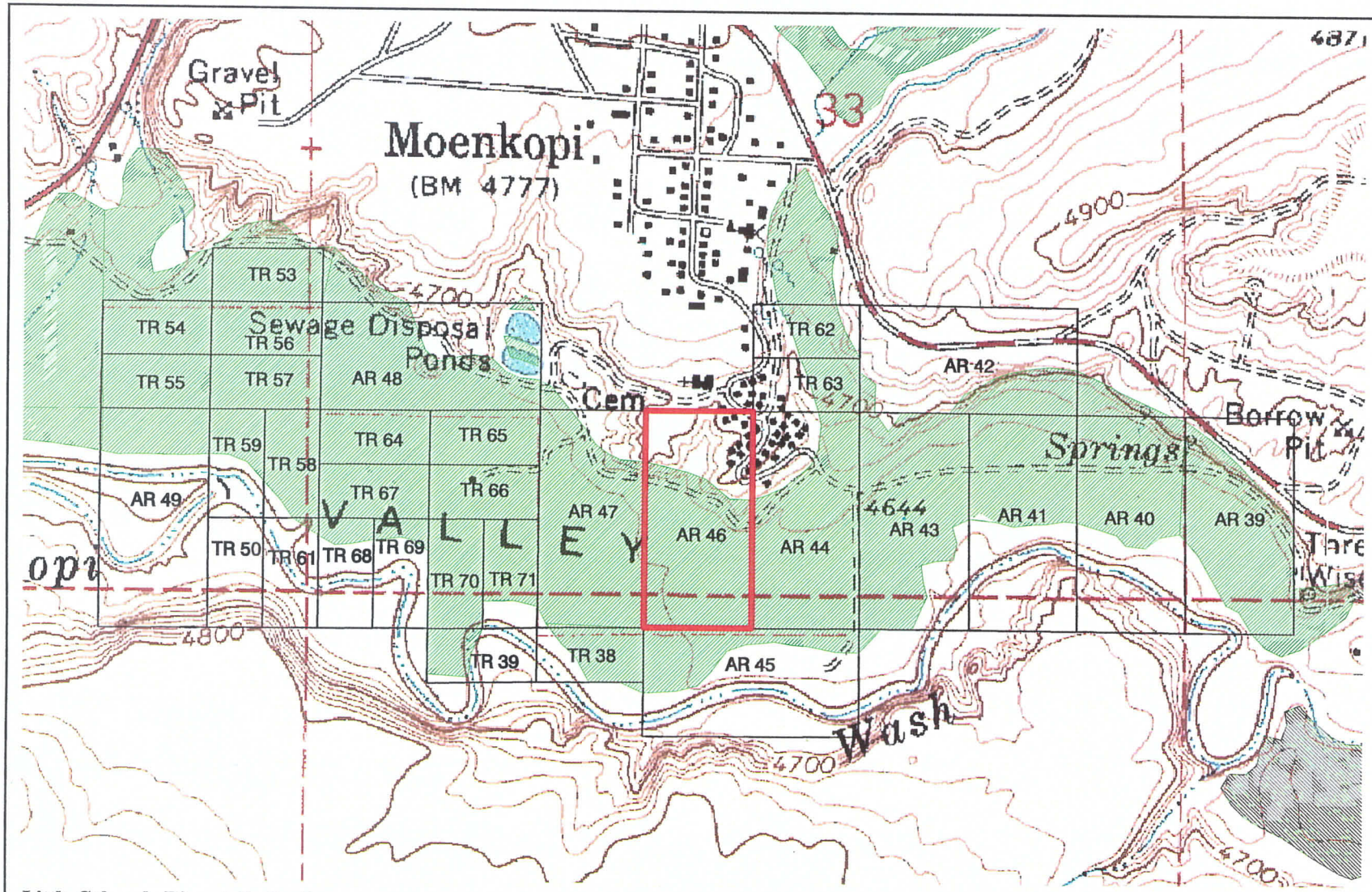
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: AR 46
Deeded Acres: 19.940
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 14.246 ac
Total Irrigated Field Acreage: 14.246 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 14.246 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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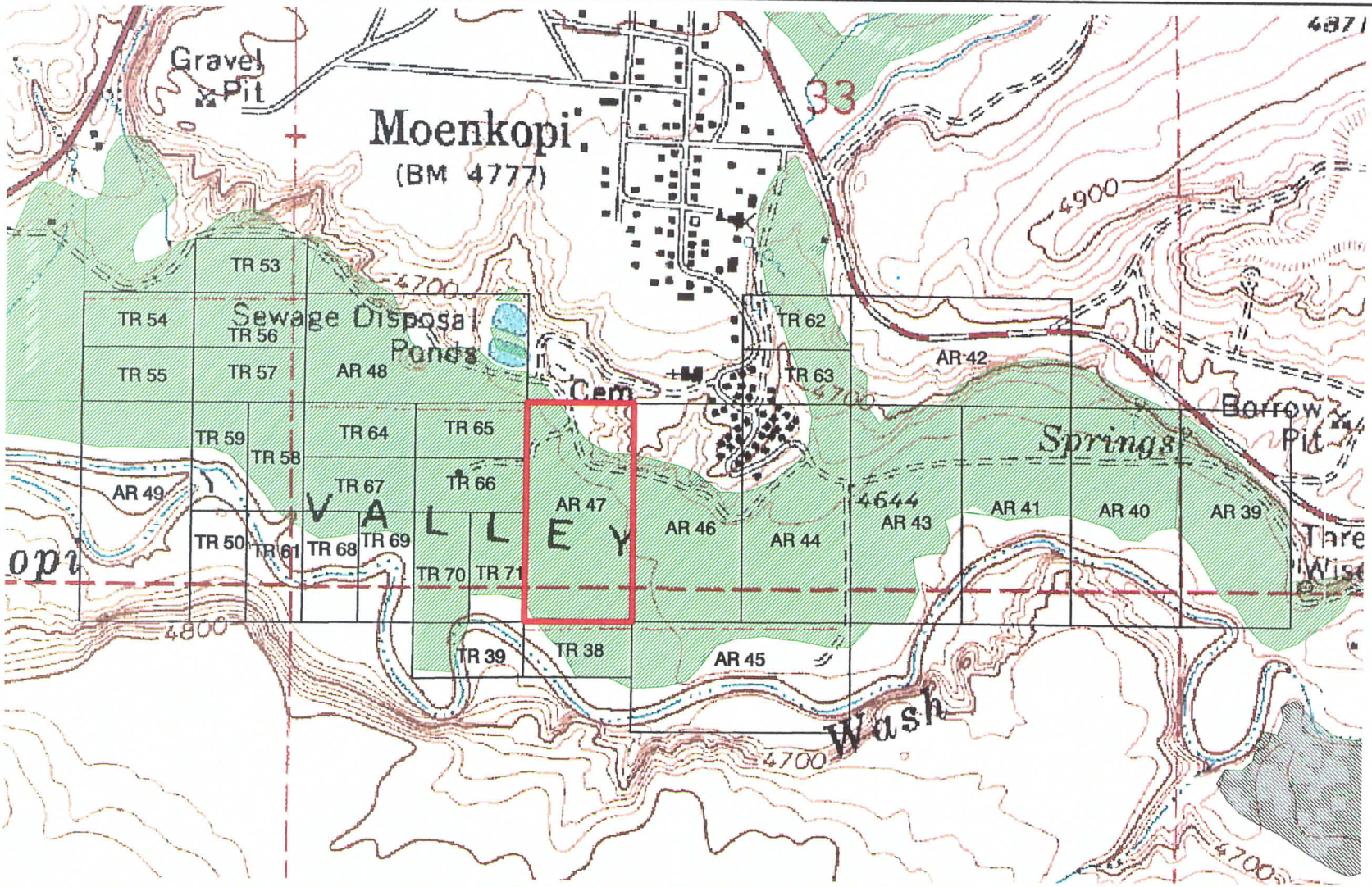
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: AR 47
Deeded Acres: 19.65
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 17.7 ac
Total Irrigated Field Acreage: 17.7 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 17.7 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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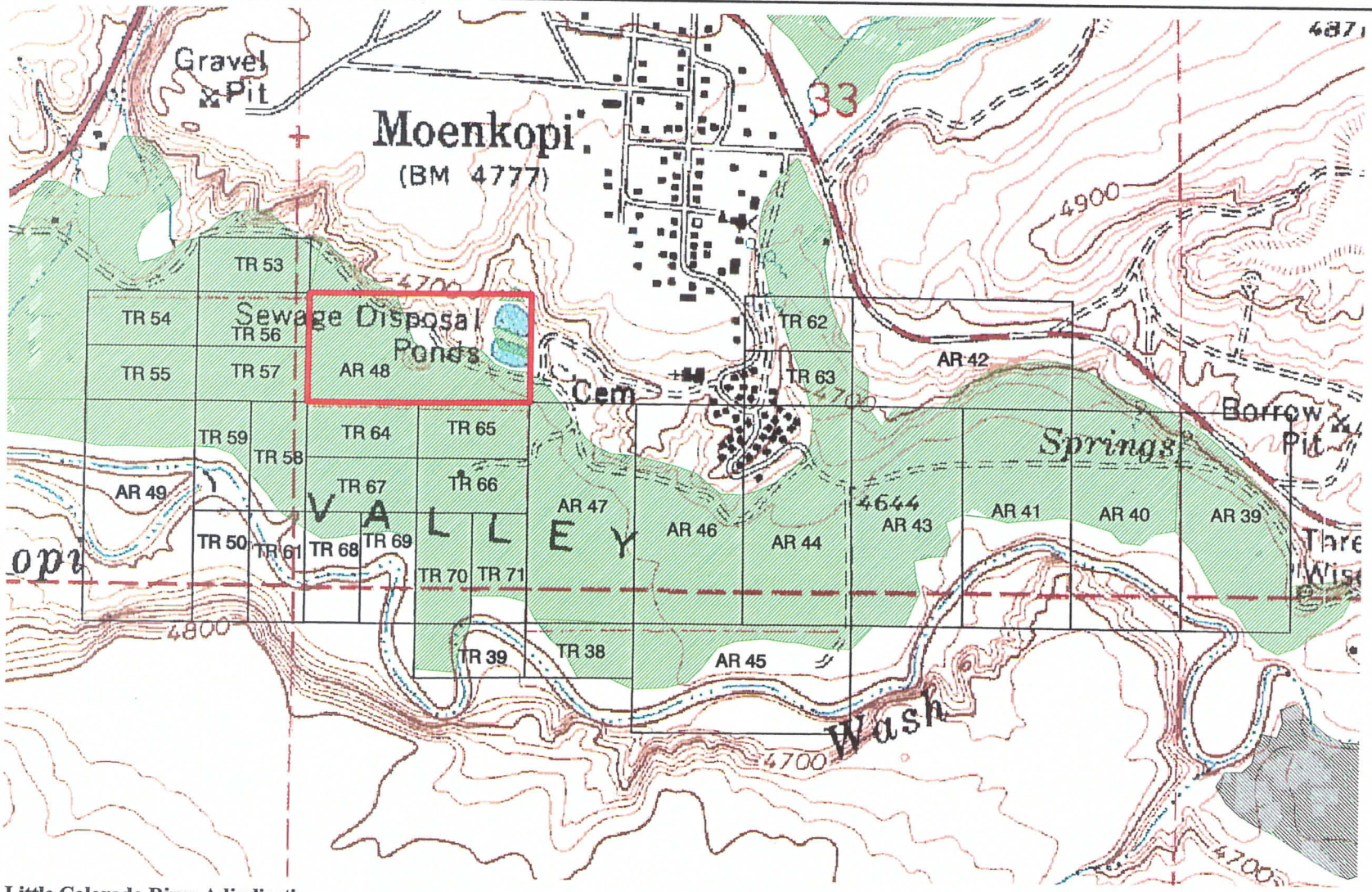

Little Colorado River Adjudication

Allotment ID: AR 48
Deeded Acres: 20.280
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 15.834 ac
Total Irrigated Field Acreage: 15.834 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 15.834 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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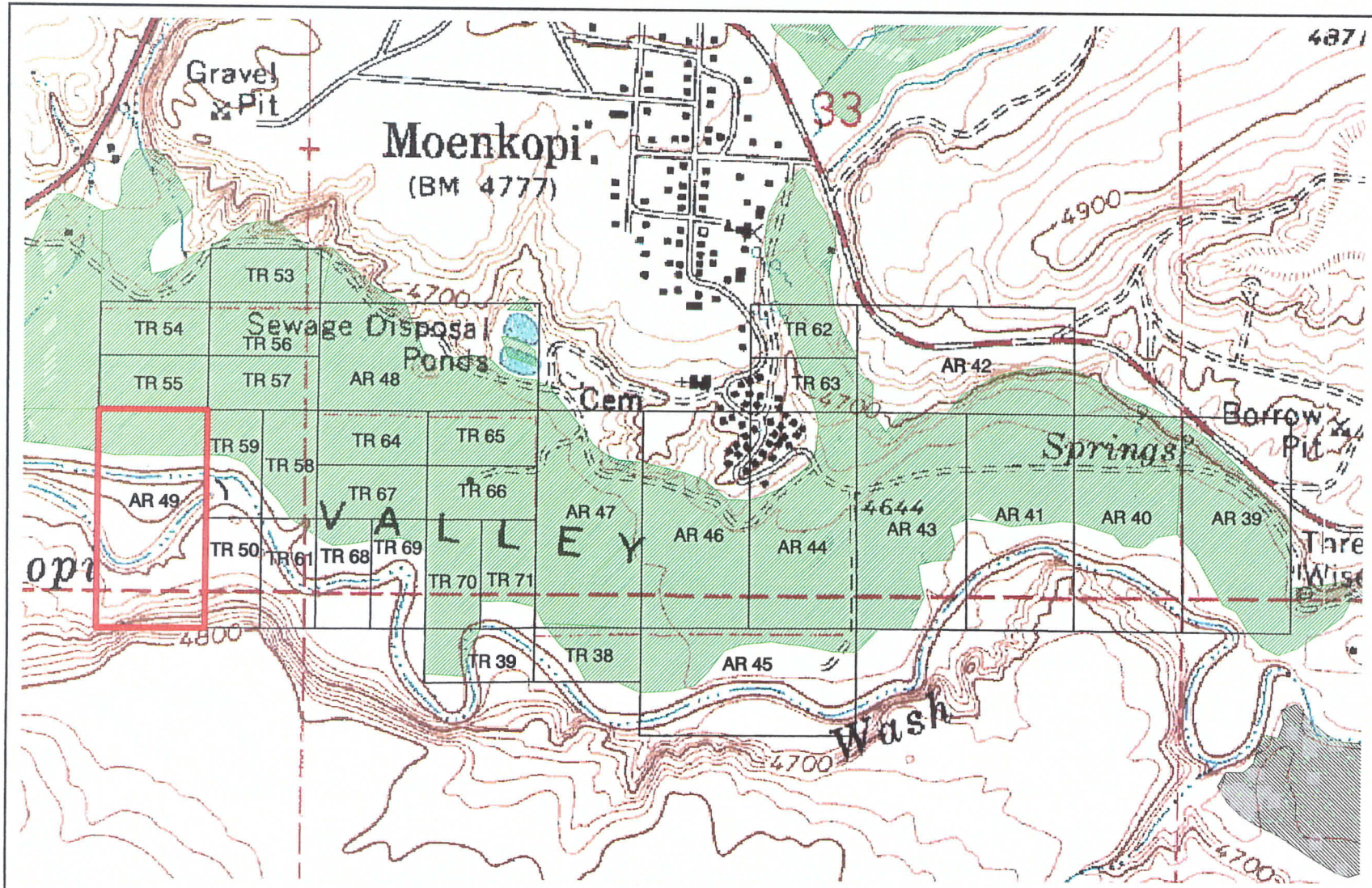
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: AR 49
Deeded Acres: 19.940
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 3.154 ac
Total Irrigated Field Acreage: 3.154 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 3.154 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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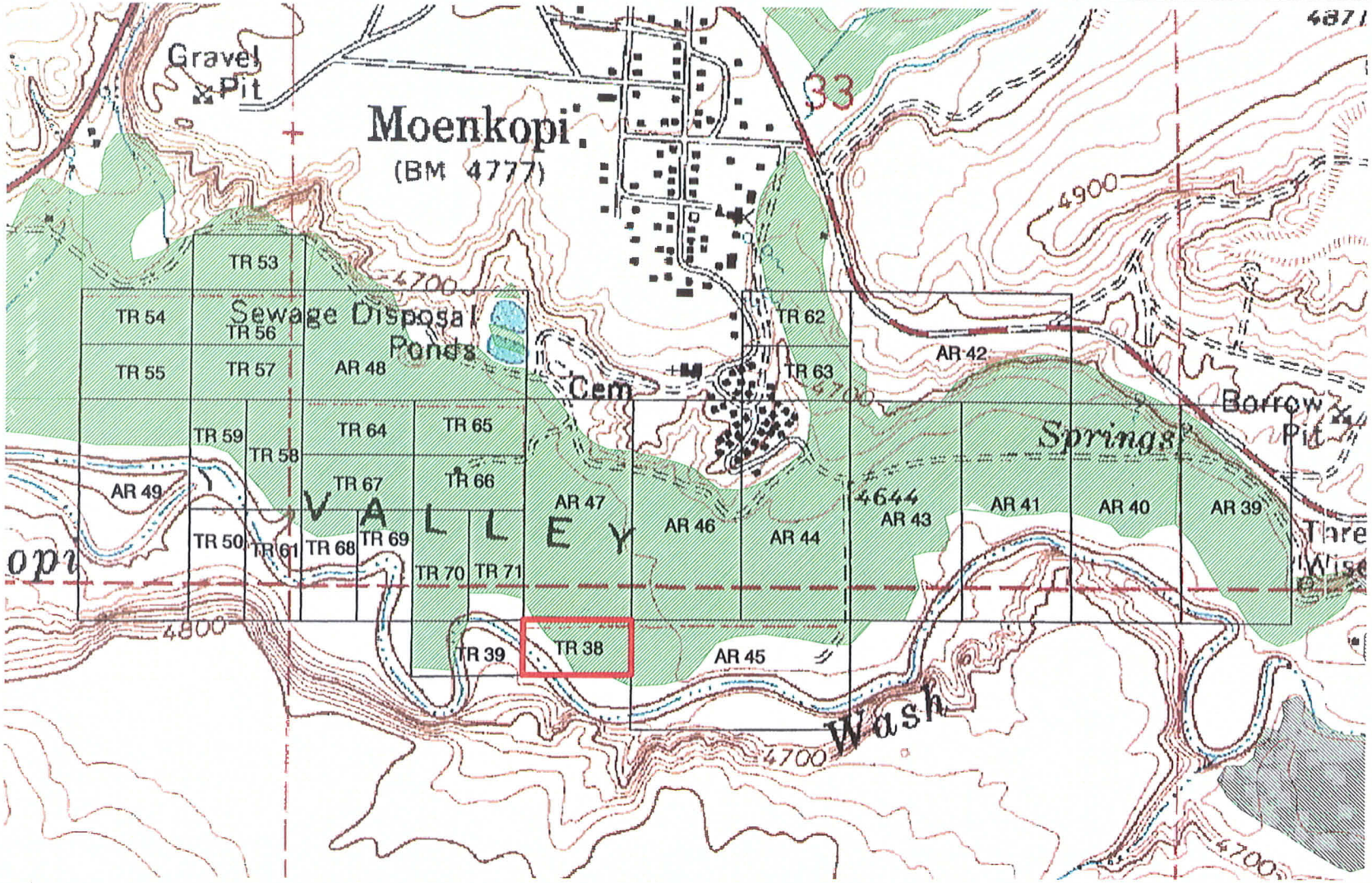
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 38
Deeded Acres: 5.0
Reservation: Hopi
Quadrangle: Moenkopi

Township: 31 N
Range: 11 E
Section: 4

Total Field Acreage in Allotment: 2.780 ac
Total Irrigated Field Acreage: 2.780 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 2.780 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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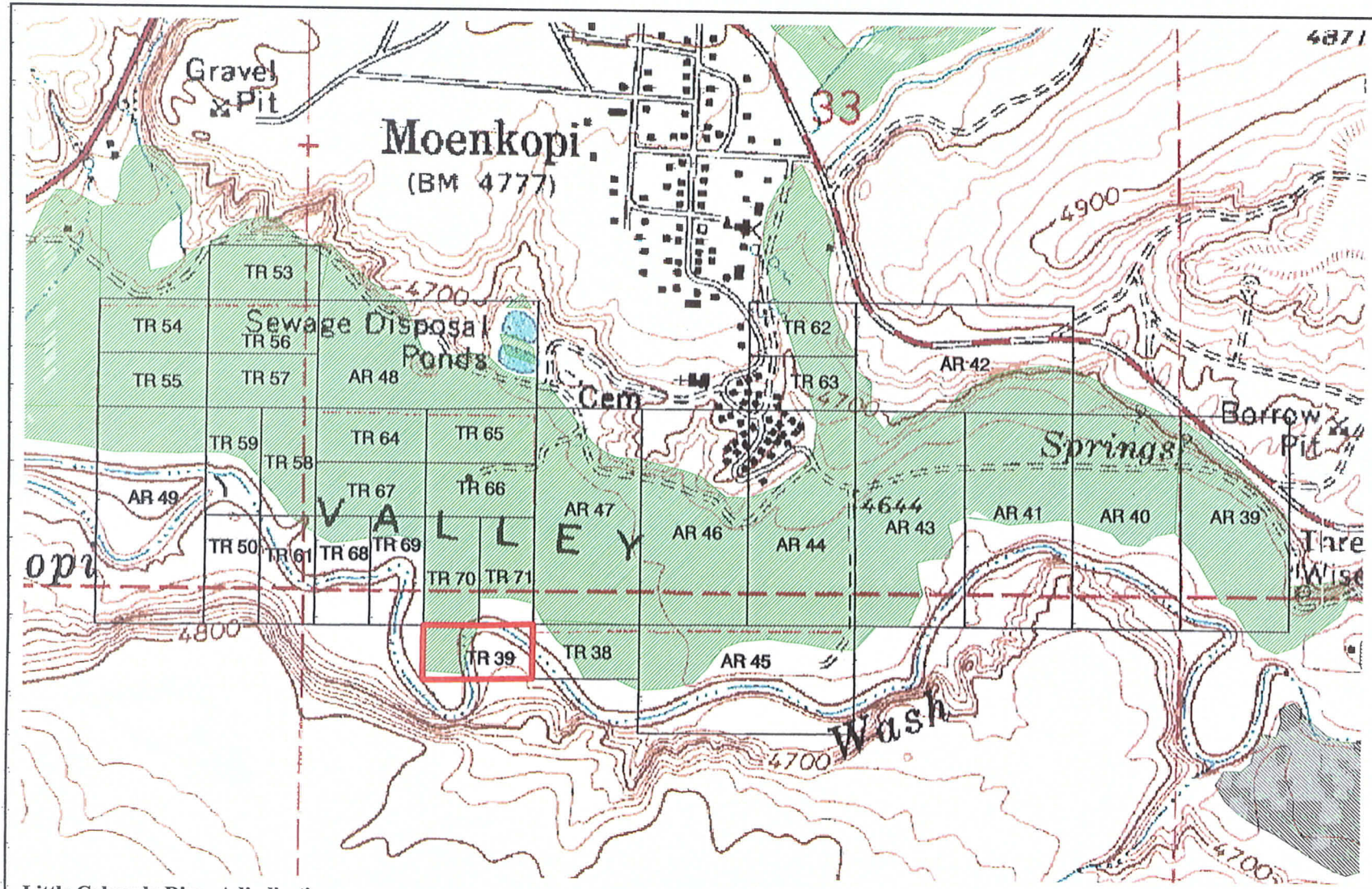
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

~~Allotment ID:~~ ~~TR 39~~
Deceded Acres: 4.930
Reservation: Hopi
Quadrangle: Moenkopi

~~Township:~~ ~~31 N~~
Range: 11 E
Section: 4

Total Field Acreage in Allotment: 1.402 ac
Total Irrigated Field Acreage: 1.402 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 1.402 ac

~~Data Obtained From: Ebert and Associates, Inc., June 2000~~

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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August 2002

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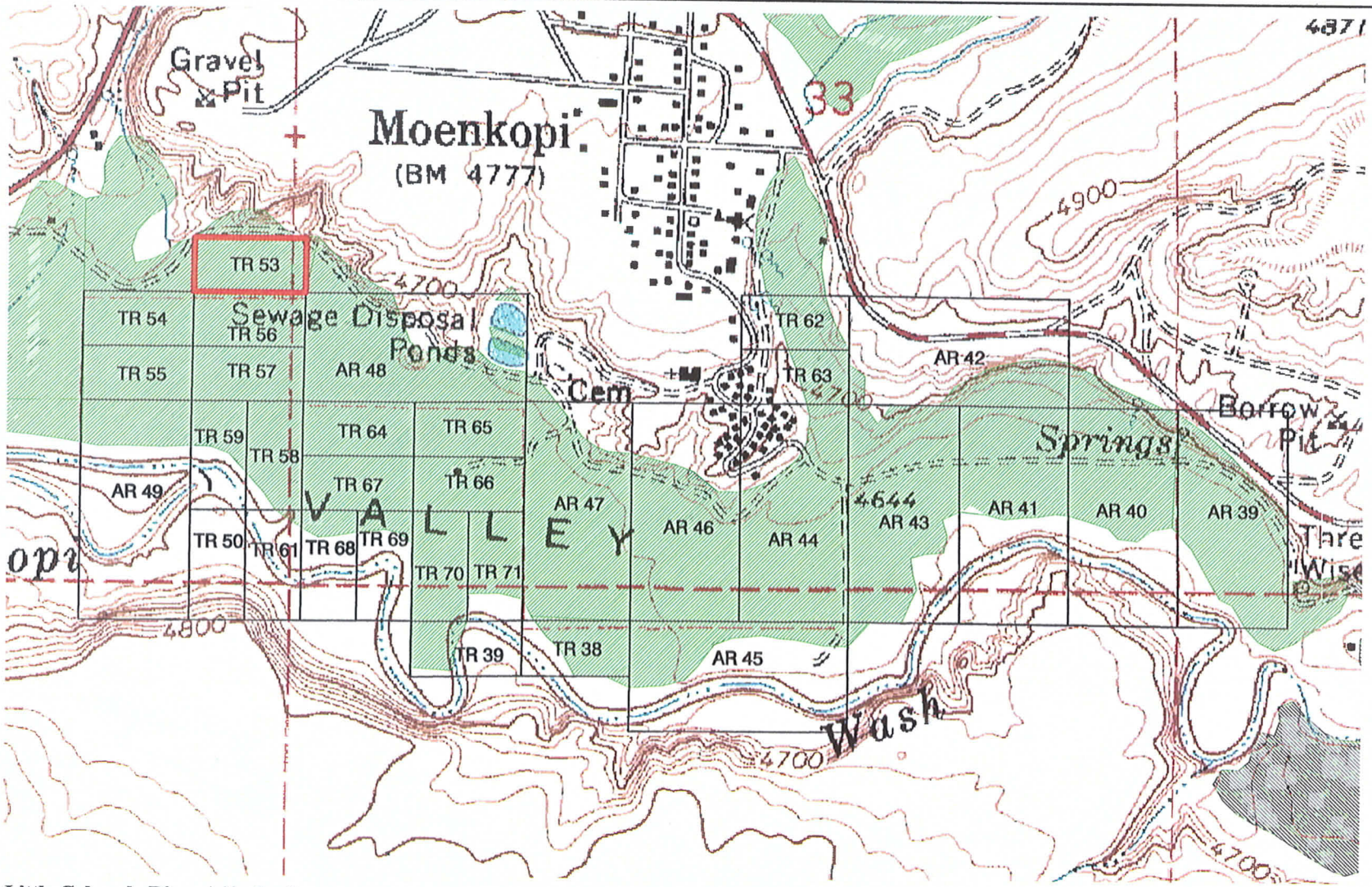

Little Colorado River Adjudication

Allotment ID: TR 53
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 5.053 ac
Total Irrigated Field Acreage: 5.053 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.053 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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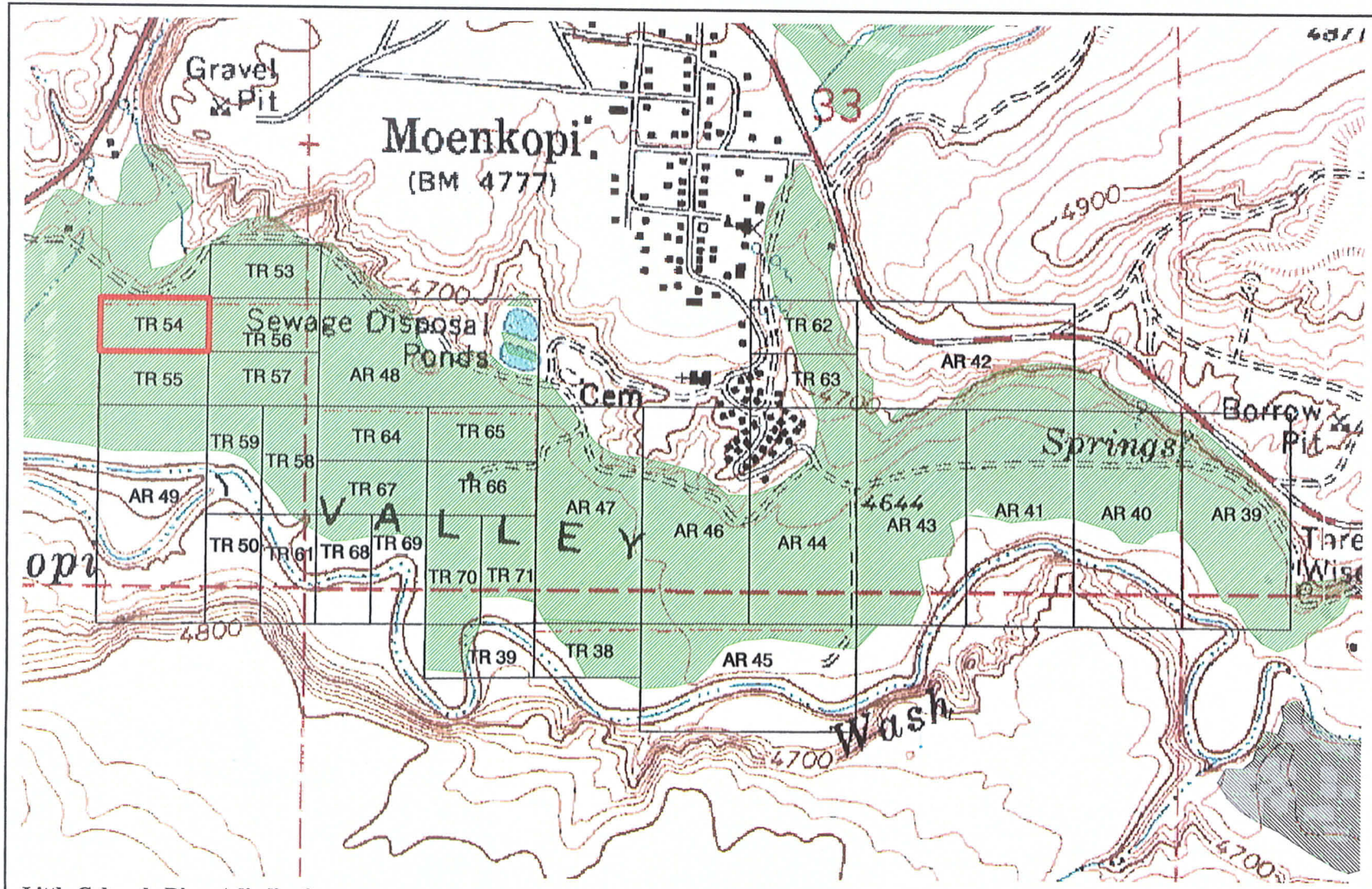
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 54
Deeded Acres: 5.000
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 5.003 ac
Total Irrigated Field Acreage: 5.003 ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.003 ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

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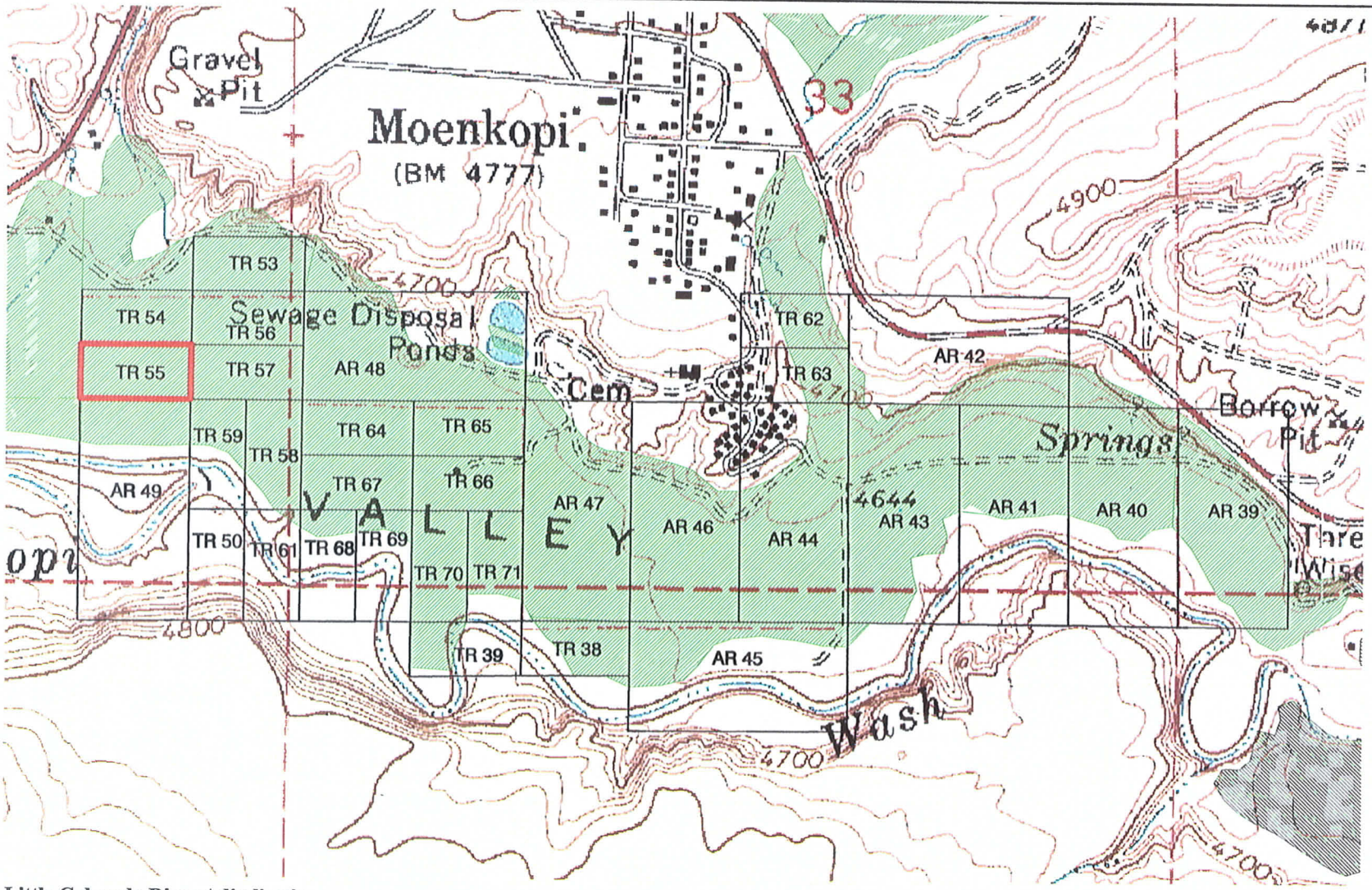
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 55
Deeded Acres: 5.000
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 5.001ac
Total Irrigated Field Acreage: 5.001ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.001ac

Data Obtained From: Ebert and Associates, Inc., June 2000

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

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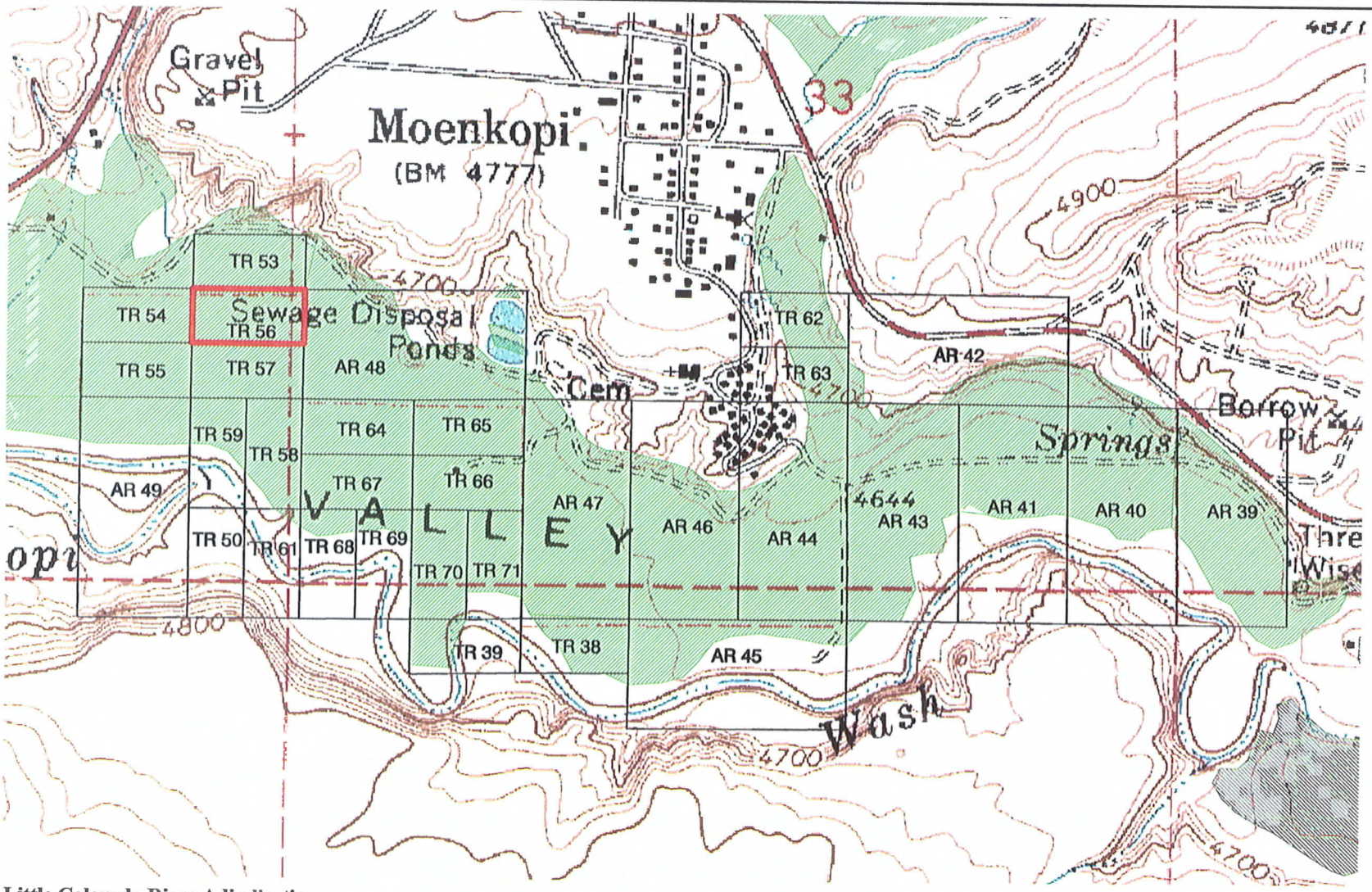

Little Colorado River Adjudication

Allotment ID: TR 56
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 5.053ac
Total Irrigated Field Acreage: 5.053ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.053ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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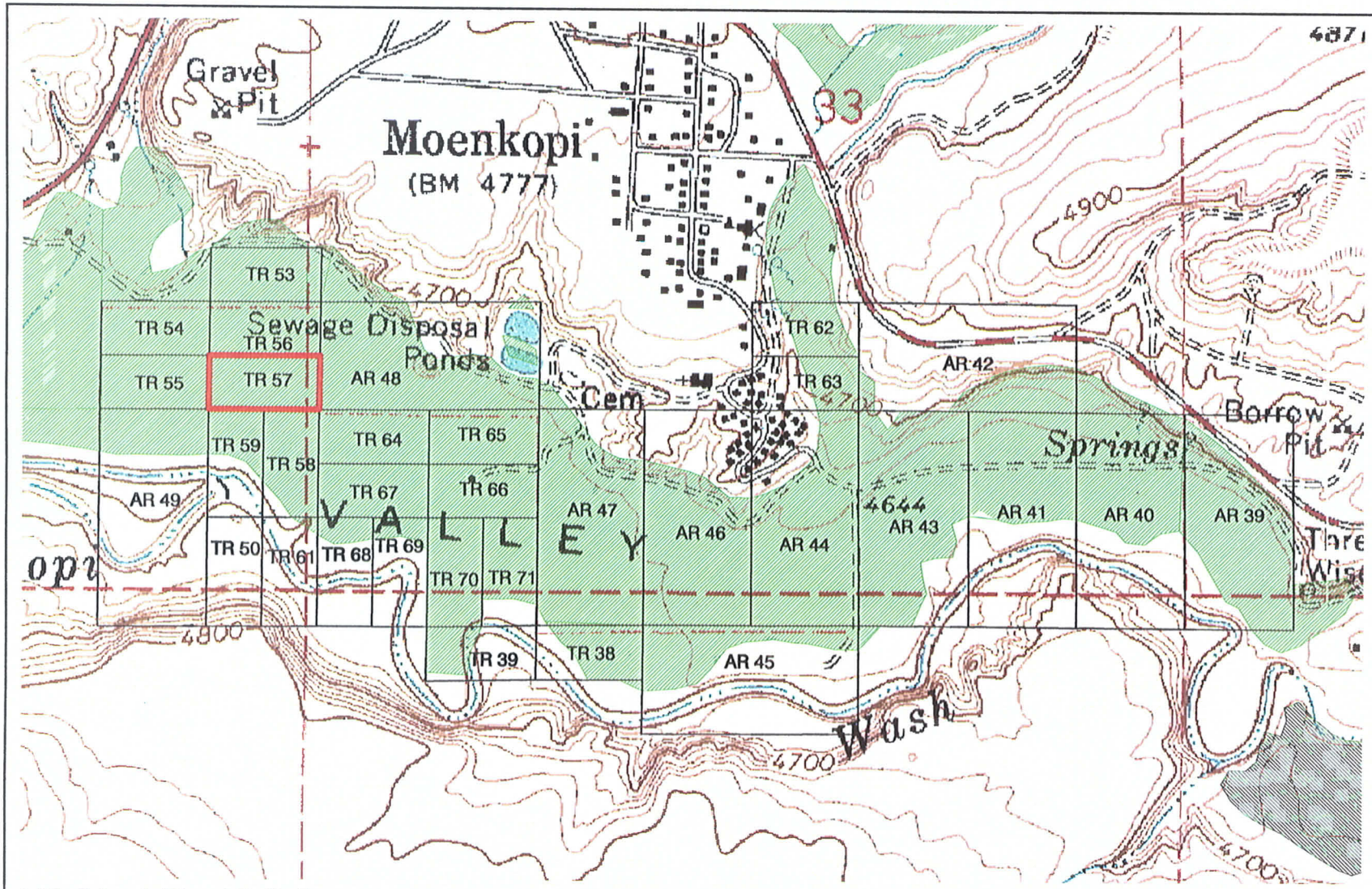

Little Colorado River Adjudication

Allotment ID: TR 57
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 5.180ac
Total Irrigated Field Acreage: 5.180ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.180ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

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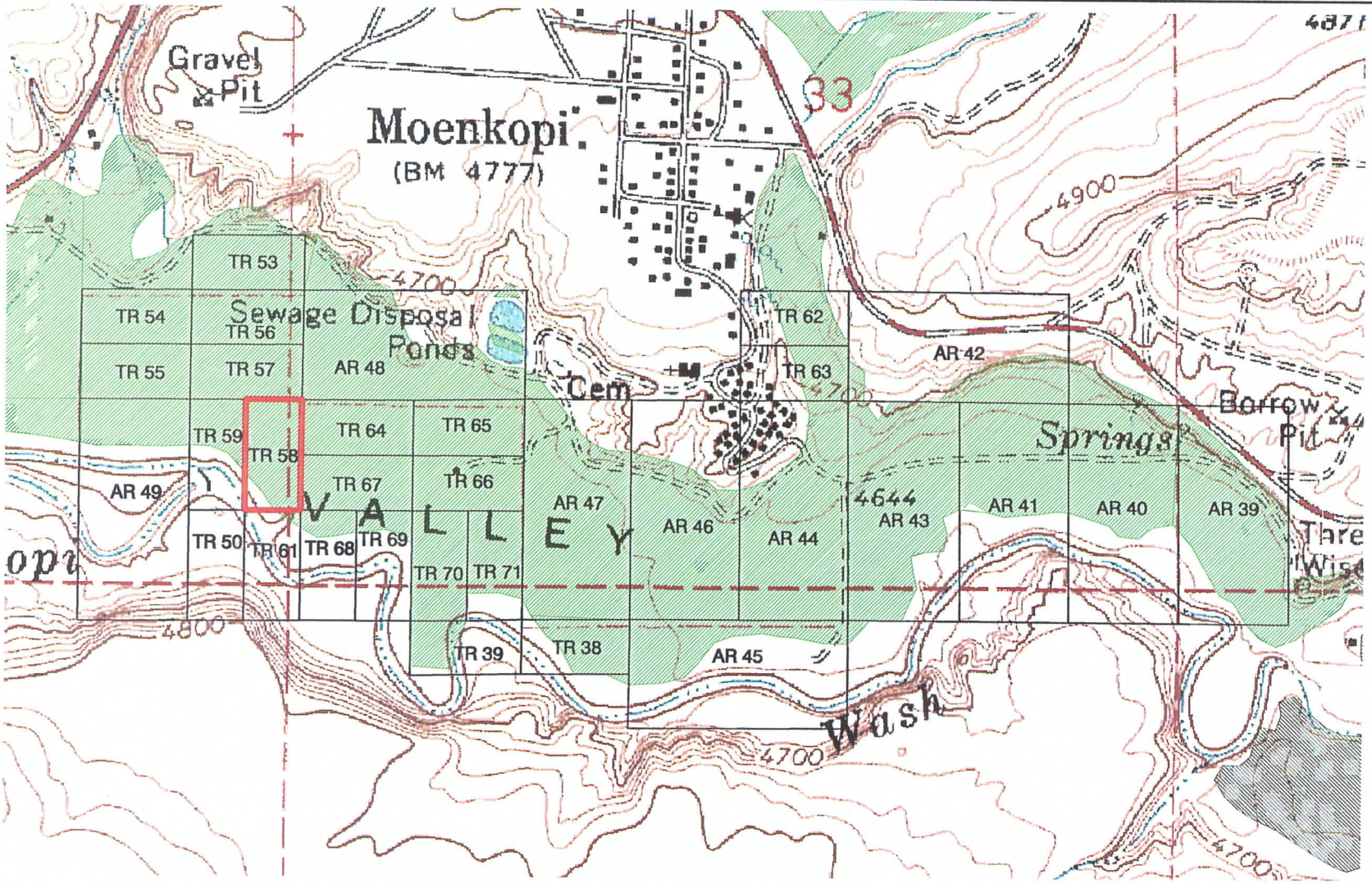
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 58
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 4.196ac
Total Irrigated Field Acreage: 4.196ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 4.196ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

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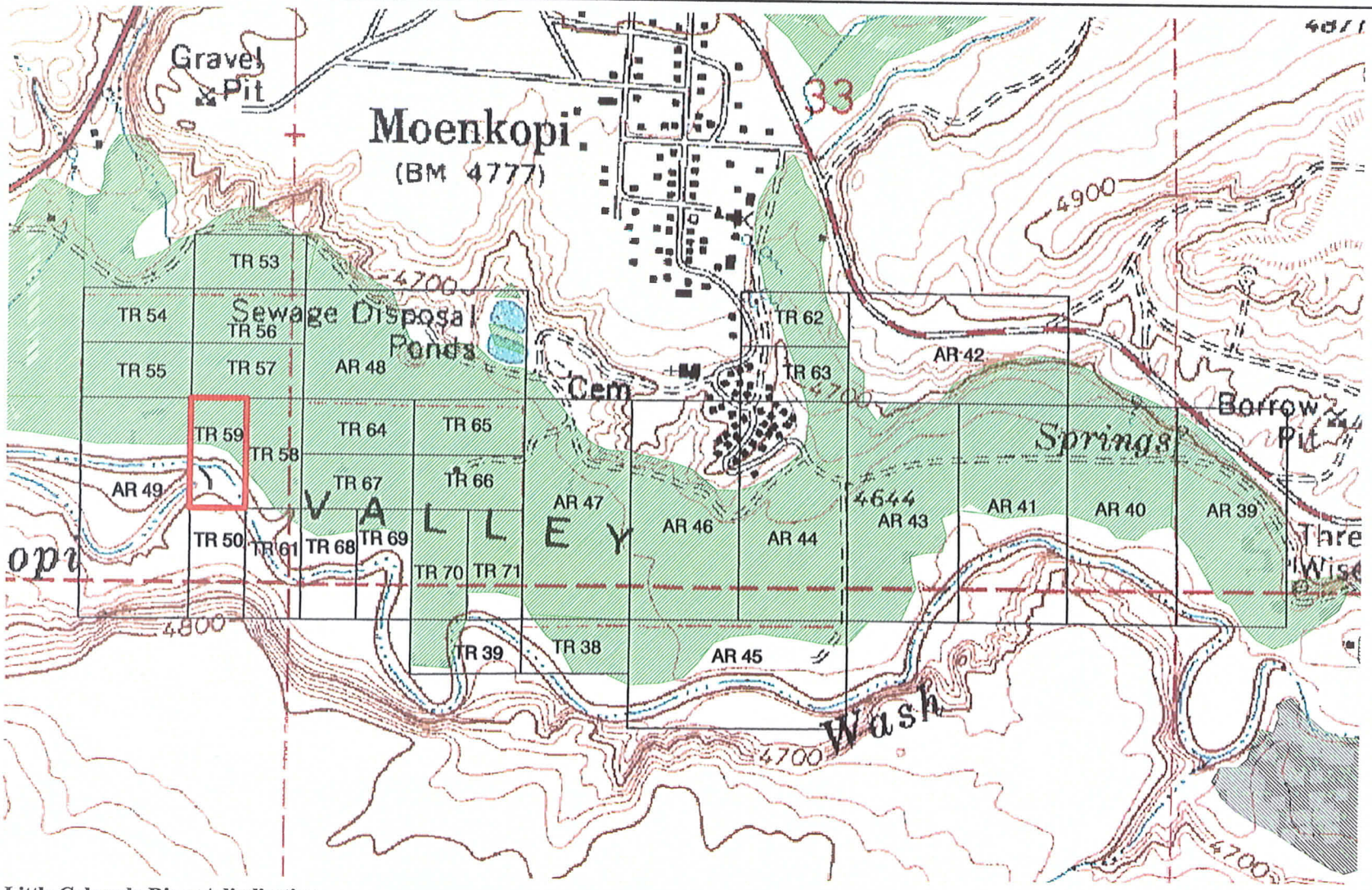
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 59
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 1.888ac
Total Irrigated Field Acreage: 1.888ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 1.888ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

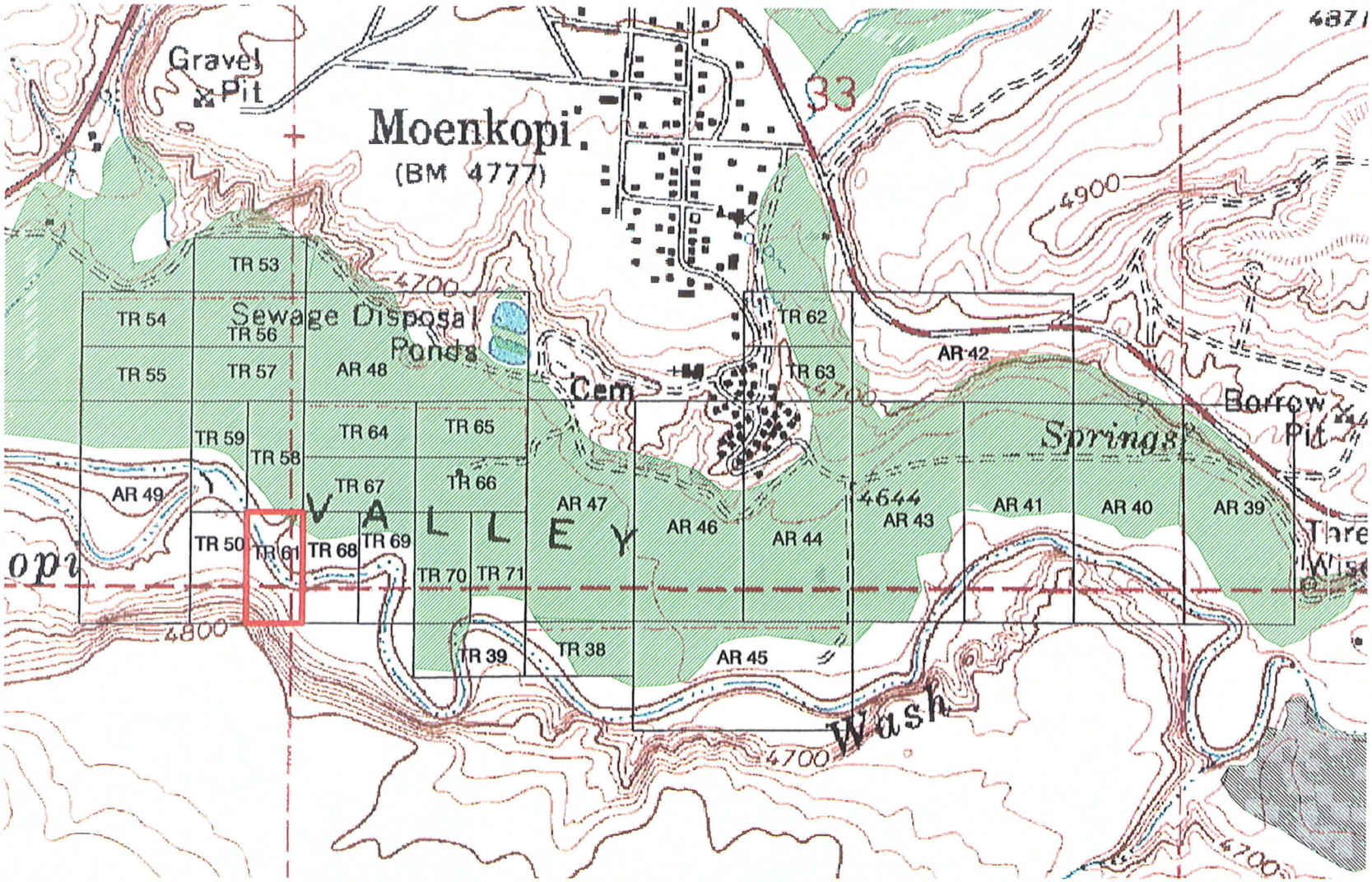
0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 61
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 32

Total Field Acreage in Allotment: 0.056ac
Total Irrigated Field Acreage: 0.056ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 0.056ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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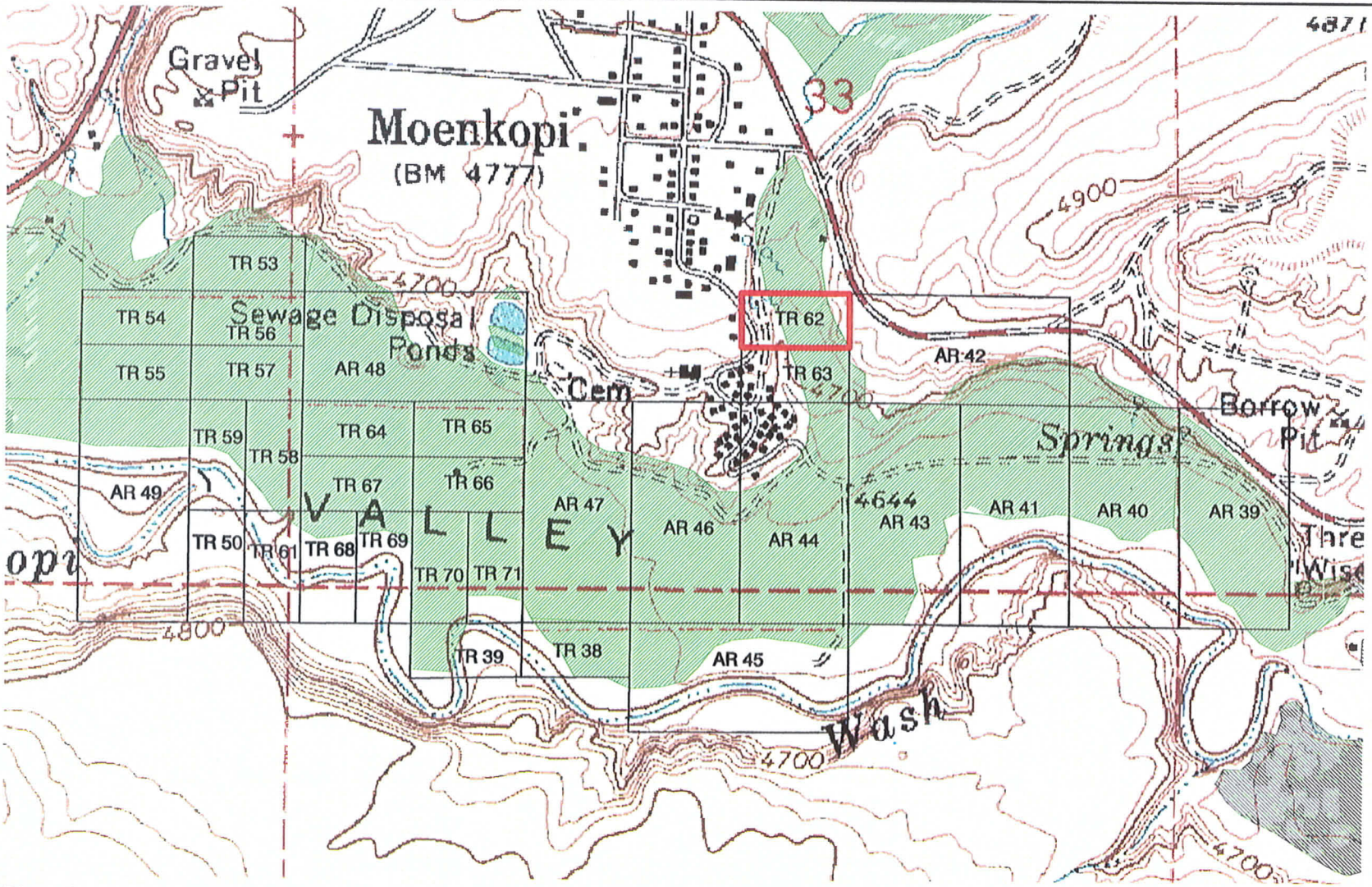
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 62
Deeded Acres: 4.940
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 2.547ac
Total Irrigated Field Acreage: 2.547ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 2.547ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

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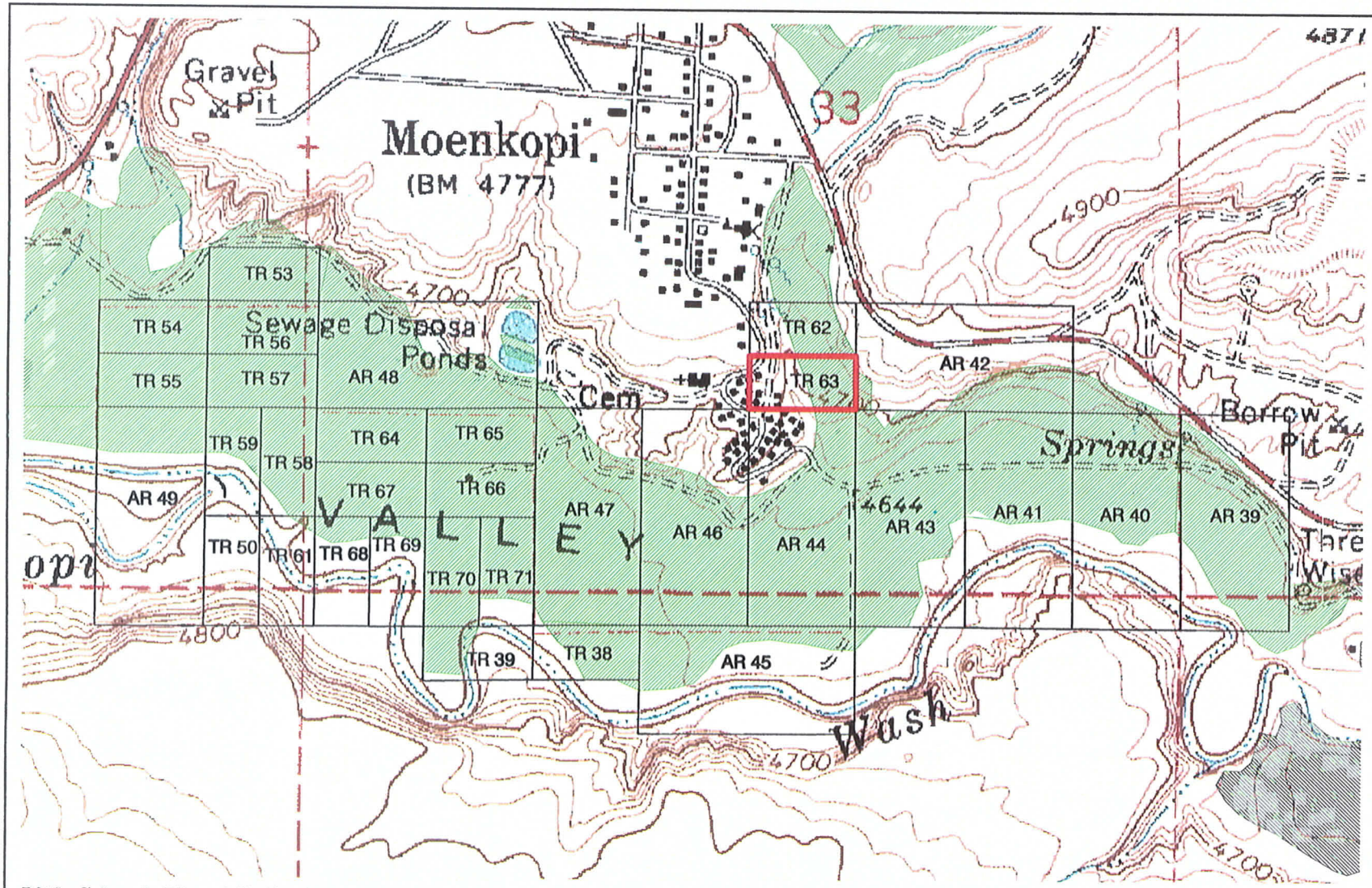
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 63
Deeded Acres: 4.940
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 2.368ac
Total Irrigated Field Acreage: 2.368ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 2.368ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

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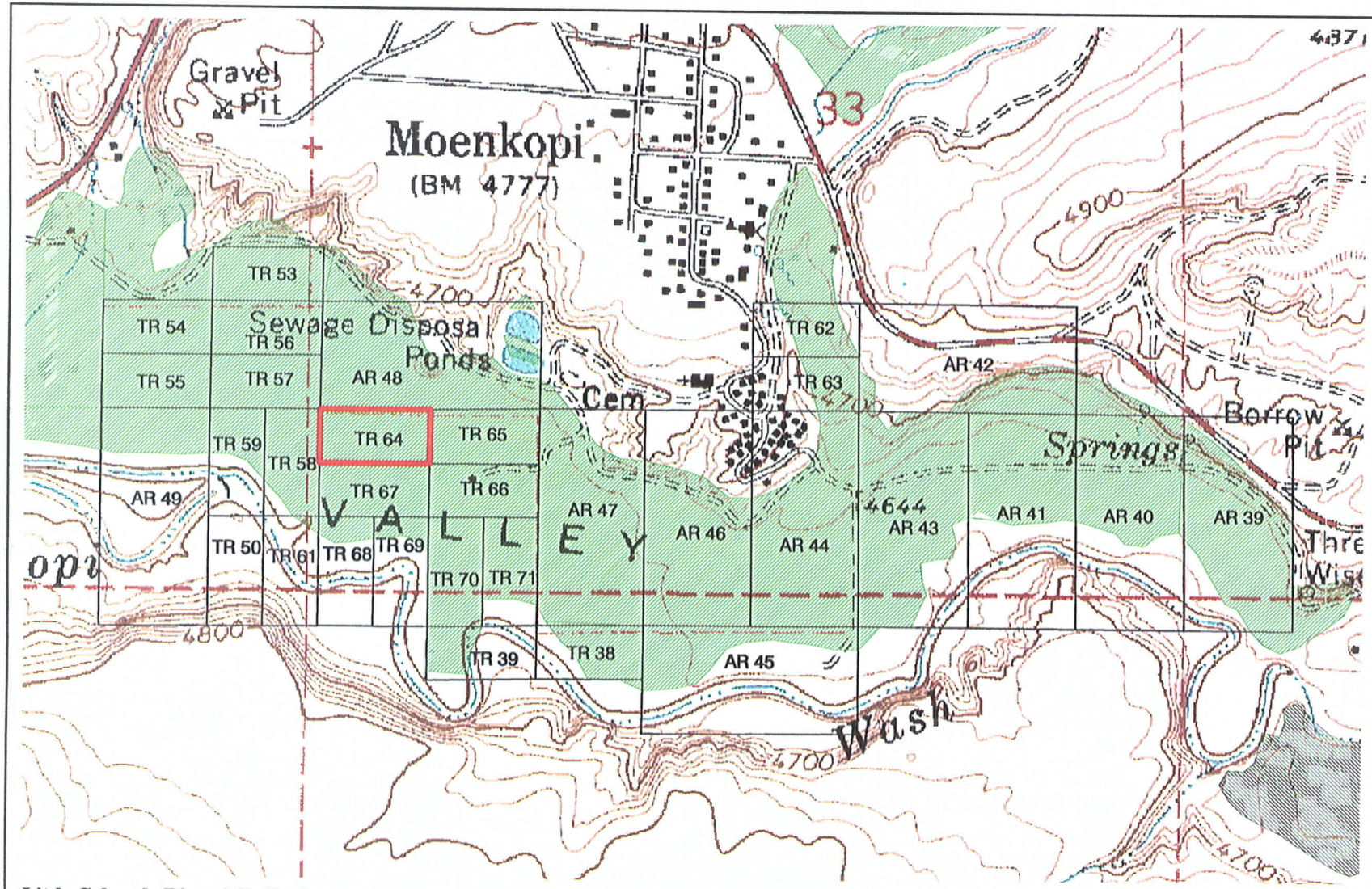
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 64
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 4.996ac
Total Irrigated Field Acreage: 4.996ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 4.996ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

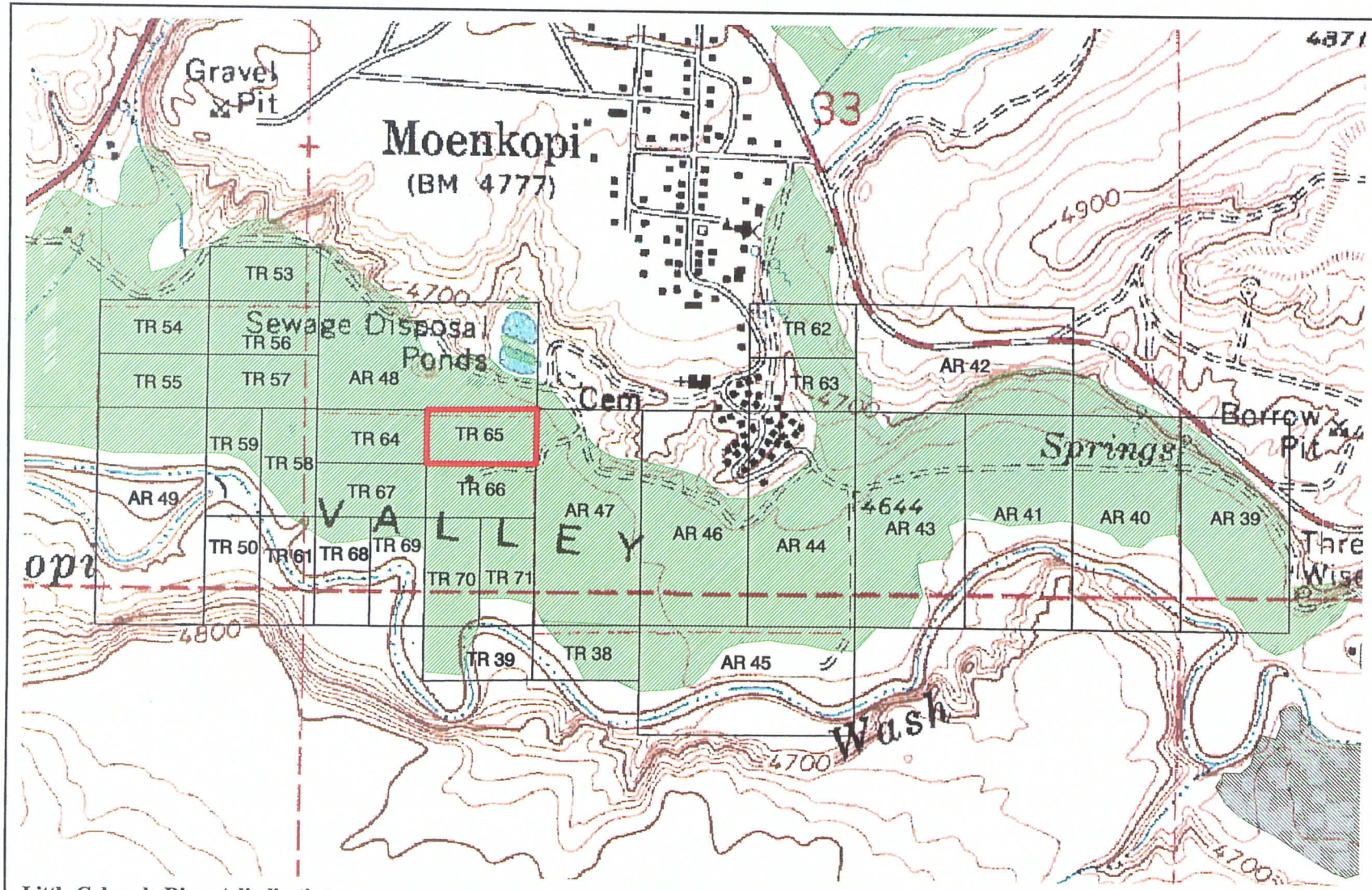
0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 65
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 5.066ac
Total Irrigated Field Acreage: 5.066ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.066ac

Data Obtained From: Ebert and Associates, Inc., June 2000

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

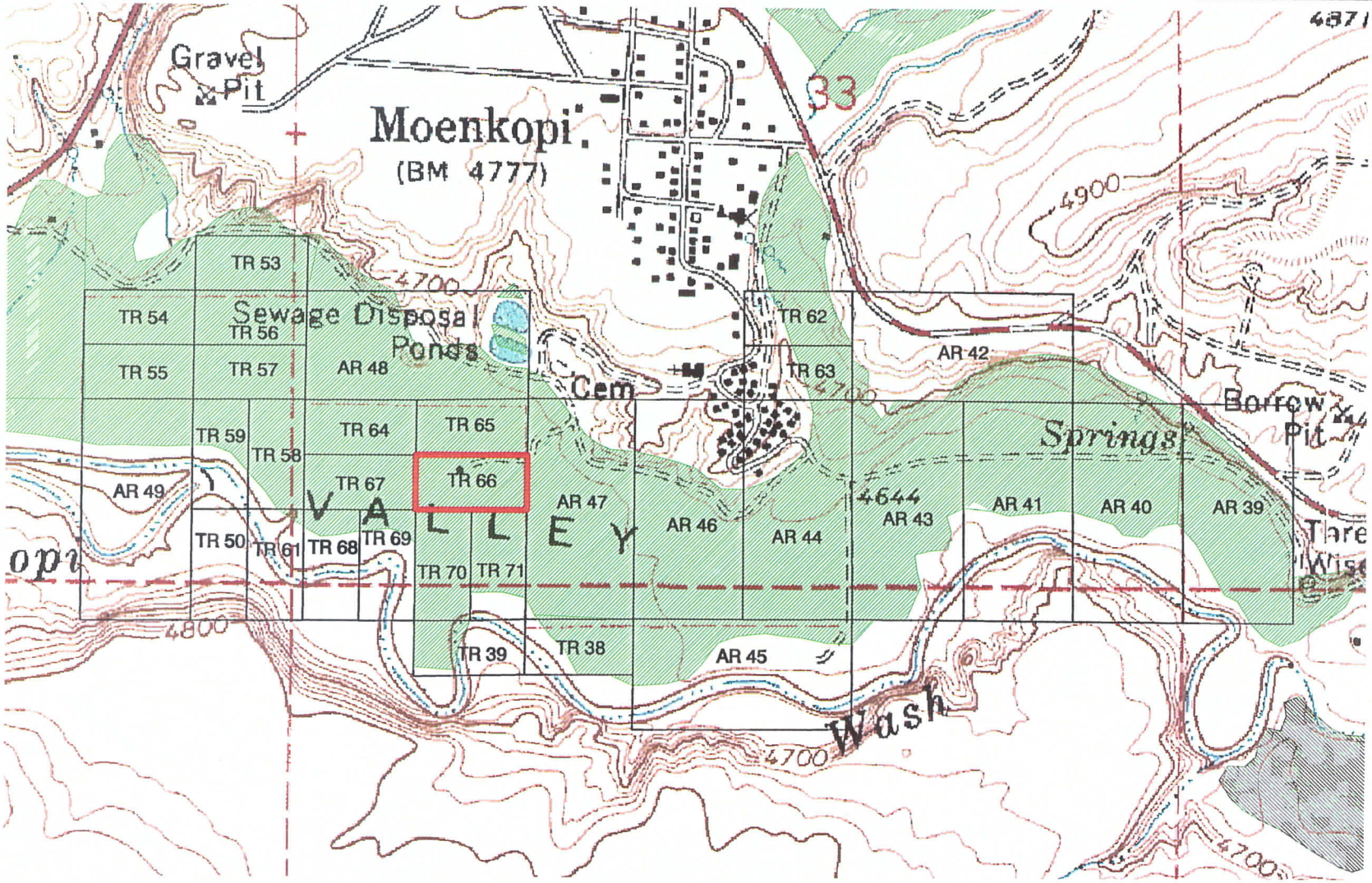
NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®



Little Colorado River Adjudication

Allotment ID: TR 66
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 5.093ac
Total Irrigated Field Acreage: 5.093ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.093ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

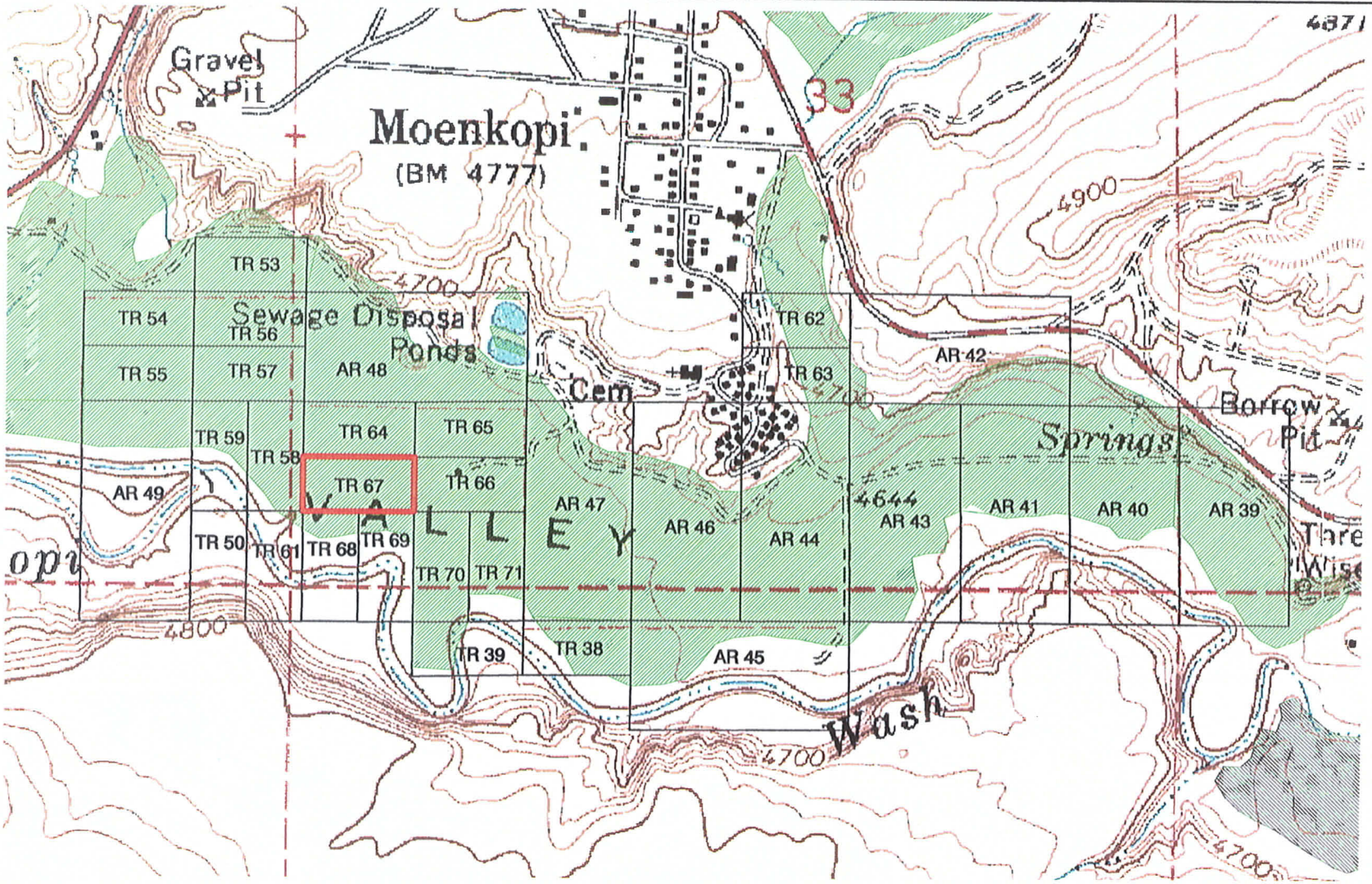
0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 67
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 5.088ac
Total Irrigated Field Acreage: 5.088ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 5.088ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

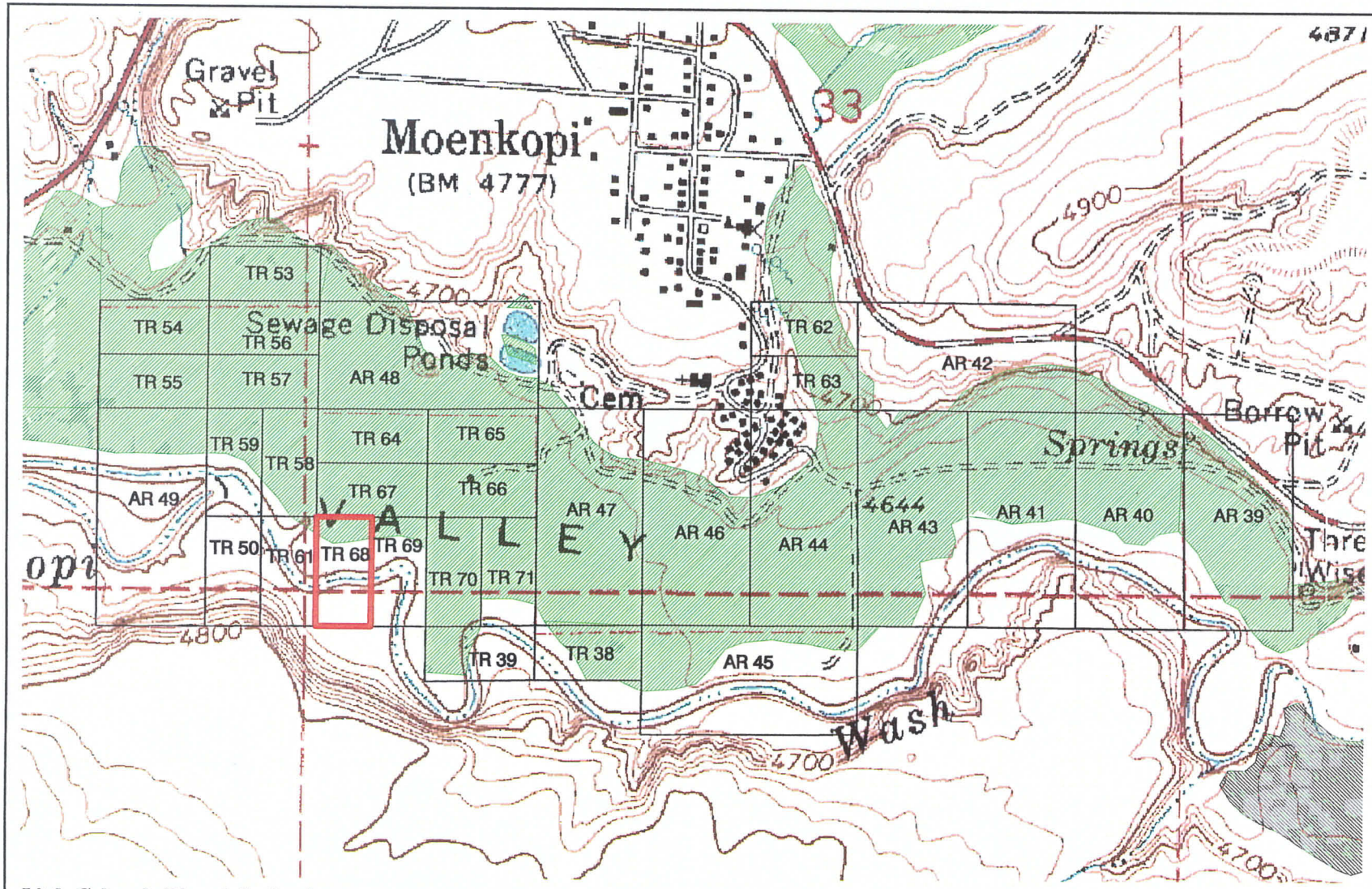
0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 68
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 0.691ac
Total Irrigated Field Acreage: 0.691ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 0.691ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

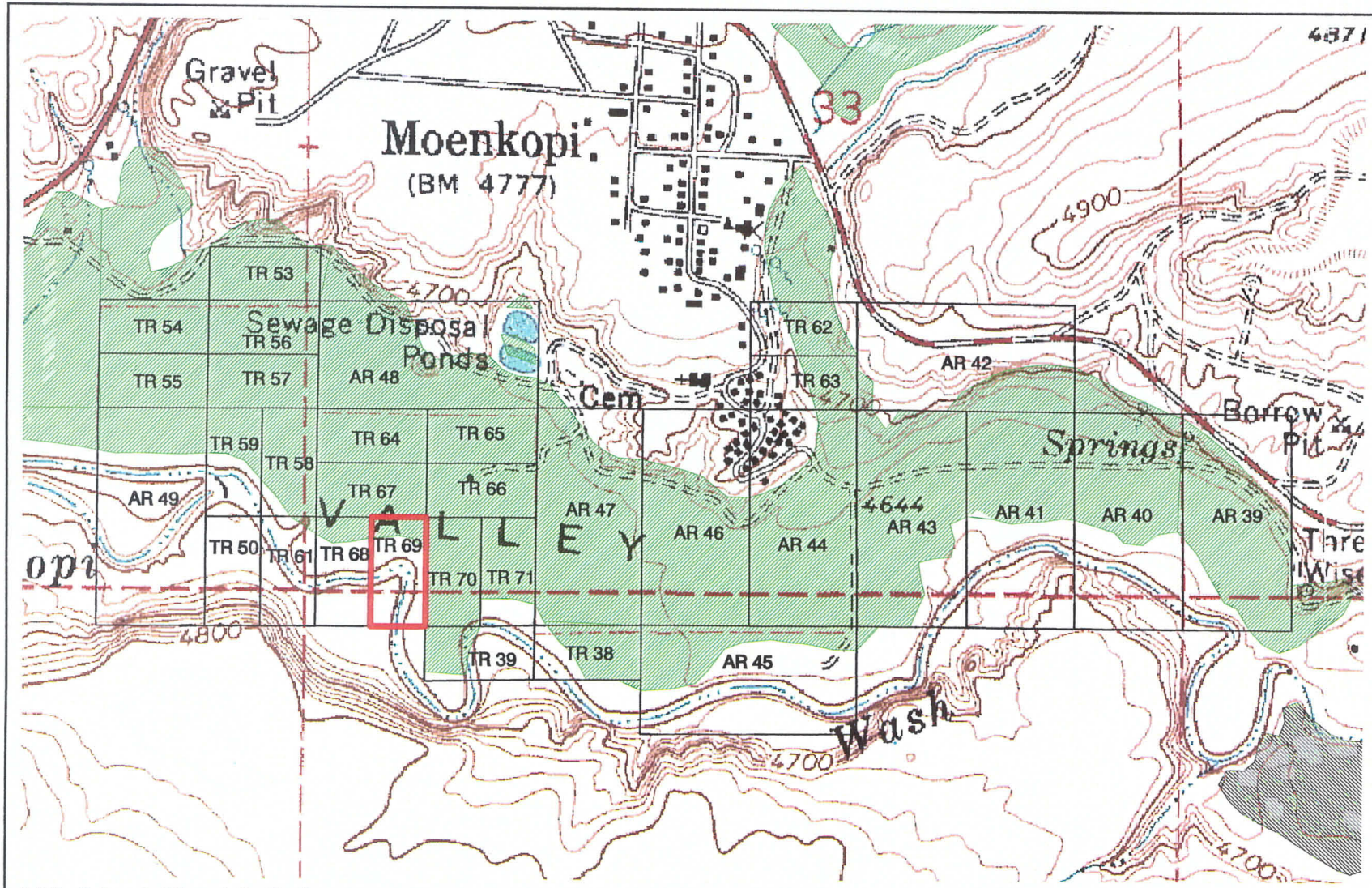
0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 69
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 0.814ac
Total Irrigated Field Acreage: 0.814ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 0.814ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

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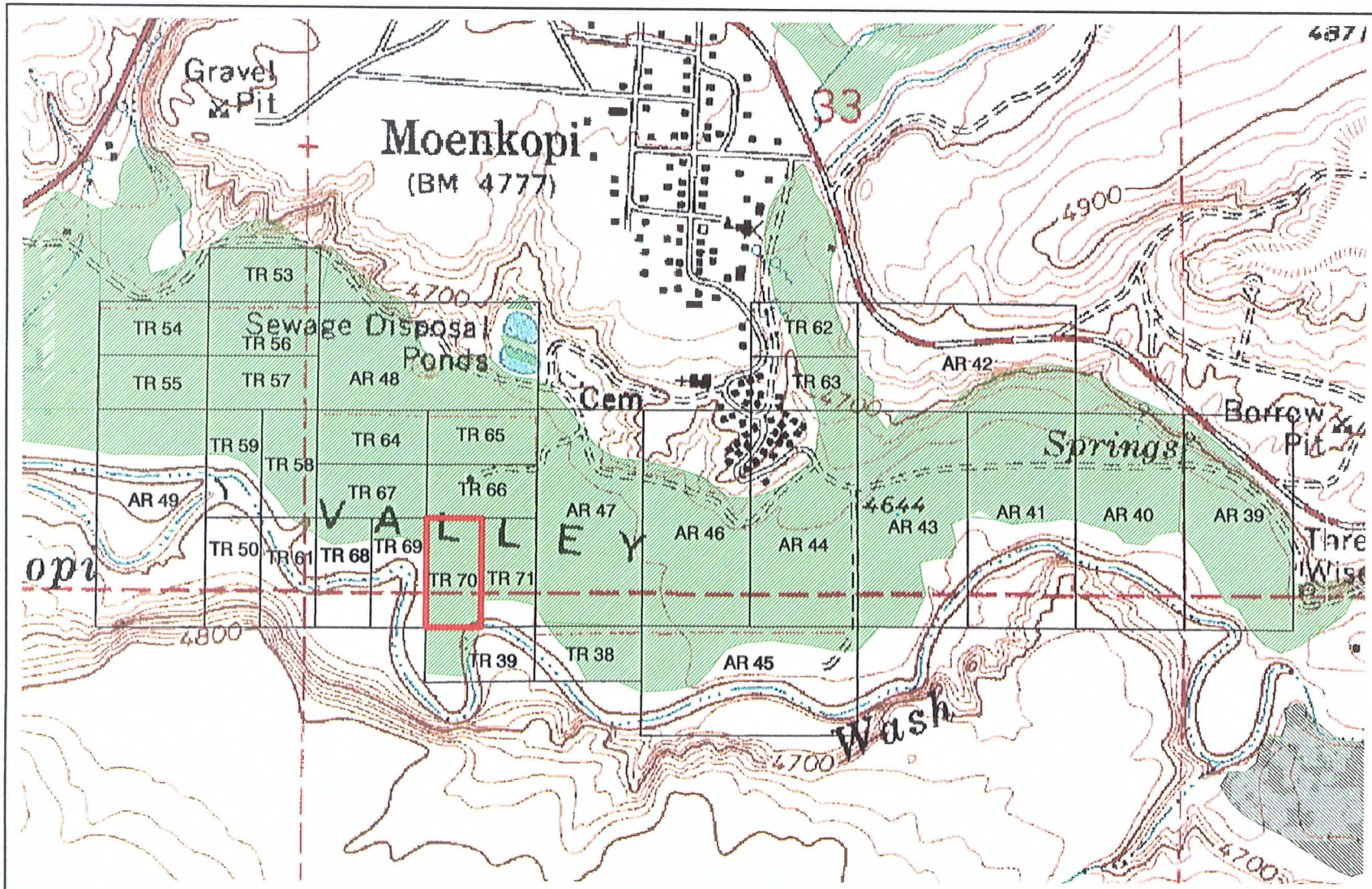
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 70
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 4.910ac
Total Irrigated Field Acreage: 4.910ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 4.910ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

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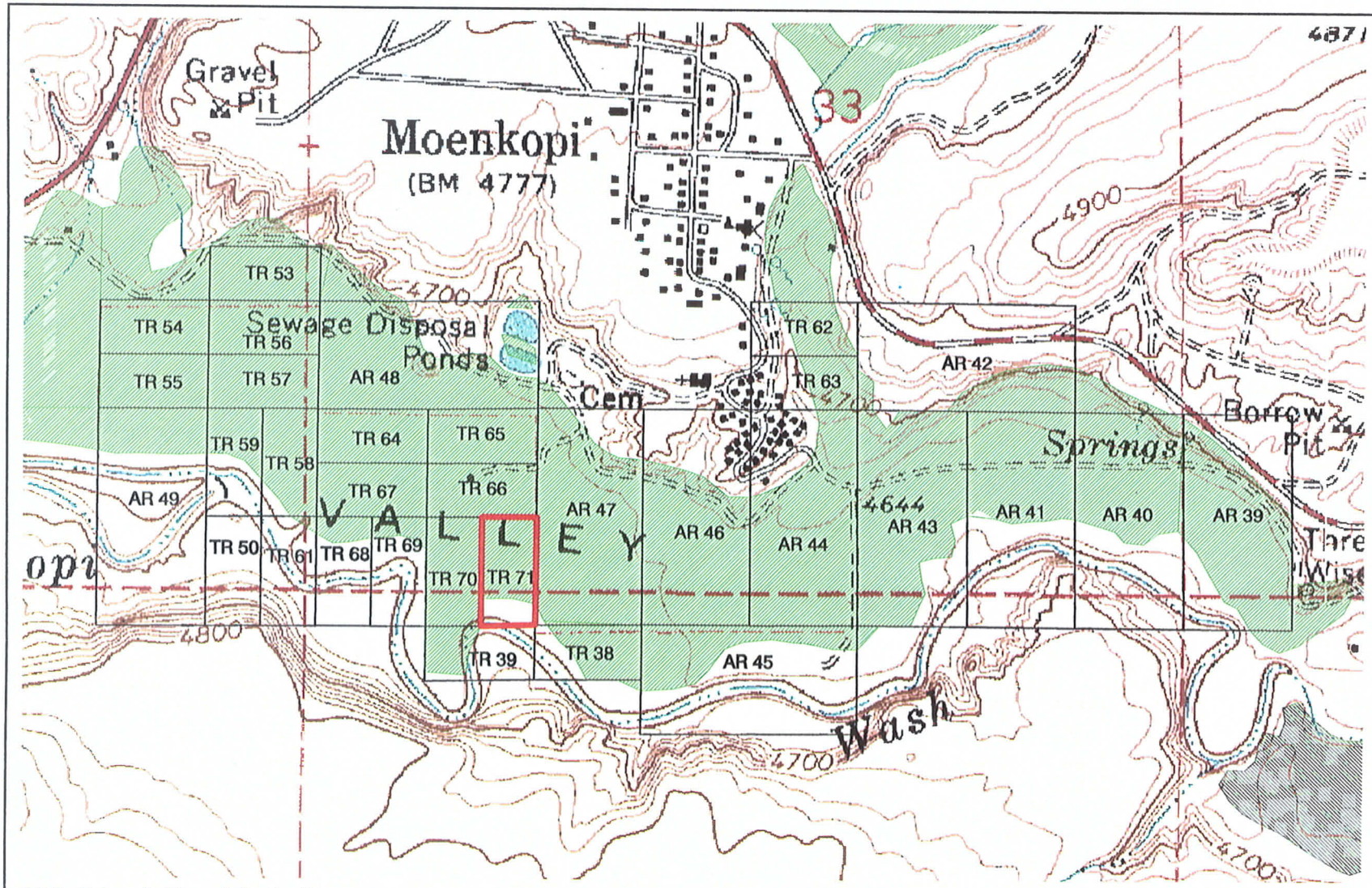
Data Obtained From: Ebert and Associates, Inc., June 2000



Little Colorado River Adjudication

Allotment ID: TR 71
Deeded Acres: 5.090
Reservation: Hopi
Quadrangle: Moenkopi

Township: 32 N
Range: 11 E
Section: 33

Total Field Acreage in Allotment: 3.583ac
Total Irrigated Field Acreage: 3.583ac
Total Unirrigated Field Acreage: 0 ac
Acreage By Field Type:
Type 1: 3.583ac

LEGEND

HOPI ALLOTMENT BOUNDARY

PERENNIAL IRRIGATION (TYPE 1)

NATIVE IRRIGATION (TYPE 4)

0 200 500 1000 2000
Scale in Feet

DRAFT

August 2002

NRCE®

Data Obtained From: Ebert and Associates, Inc., June 2000

AUG 20 2002

Harry R. Sachse
James T. Meggesto
SONOSKY, CHAMBERS, SACHSE, ENDRESON & PERRY
1250 Eye Street, N.W., Suite 1000
Washington, D.C. 20005
Telephone: (202) 682-0240

Colin Cloud Hampson
SONOSKY, CHAMBERS, SACHSE, ENDRESON & PERRY
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San Diego, CA 92101
Telephone: (619) 595-8070

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 NOTICE OF SUBMISSION PURSUANT TO COURT ORDER, DATED JULY 16, 2002, REQUIRING INFORMATION REGARDING HOPI ALLOTTED LANDS

DESCRIPTIVE SUMMARY:	This Notice of Submission informs the Court and the parties that the Hopi Tribe joins in the information regarding Hopi allotted lands submitted by the United States to ADWR as required by Court Order, dated July 16, 2002.
NUMBER OF PAGES:	3
DATE OF FILING:	August 16, 2002

NOTICE OF SUBMISSION

Pursuant to Paragraph 4 of the Court Order, dated July 16, 2002, the Hopi Tribe submits this Notice of Submission informing the Court and other parties that the Tribe joins in the submission of the United States to ADWR of information regarding Hopi allotted lands.

The Court's order directed the Tribe and the United States to "identify any allotted lands derived from the Hopi Reservation or from the non-reservation lands, or that are held by tribal

members" and also to "disclose the respective water rights claims attributable to any allotted lands" and to provide such disclosure to ADWR and a notice of submission to the Court. Minute Entry, Paragraph 4 (July 16, 2002). The Court also directed the parties to "work out as much as possible any issues that might arise relating to further disclosure of the information." *Id.*

Pursuant to the Court's order, counsel for the Tribe has assisted the United States in gathering information about Hopi allotments and waters attributable to those lands and has reviewed the information submitted by the United States, and such information is consistent with the information currently available to the Tribe. Accordingly, the Tribe joins in the disclosures provided by the United States.

The Tribe notes that the information contained in disclosures may require modification in the future as additional information is developed. The Tribe will provide ADWR with any new or modified information about Hopi allotments as it becomes available, along with a notice of such submission to the Court and all parties.

In the July 16 Order, the Court referred to "the offer made in open court" at the June 4 status conference. *Id.* As noted by the United States in their Notice of Submission pursuant to Paragraph 4 of the Court's Order of July 16, 2002, counsel for the Tribe offered to make disclosures regarding the acquisition into trust of lands recently acquired by the Hopi Tribe located off the Hopi Reservation. Consistent with the offer made on June 4 and the Court's order, the Tribe also commits, together with the United States, to inform the Court and all parties within thirty days of the date that any Hopi lands are taken into trust. For the record, no recently acquired Hopi lands have been taken into trust at this time.

Respectfully submitted, this 15th day of August 2002.

Harry R. Sachse
James T. Meggesto
SONOSKY, CHAMBERS, SACHSE,
ENDRESON & PERRY
1250 Eye Street, N.W., Suite 1000
Washington, D.C. 20005
Telephone: (202) 682-0240

CERTIFICATE OF SERVICE

I hereby declare under penalty of perjury, that on August 16, 2002, I served a true and correct copy of the NOTICE OF SUBMISSION PURSUANT TO COURT ORDER, DATED JULY 16, 2002, REQUIRING INFORMATION REGARDING HOPI ALLOTTED LANDS, by U.S. Mail, postage prepaid, to all parties listed on the Court-Approved Mailing List, dated July 16, 2002.

I also declare under penalty of perjury, that on August 16, 2002, I served a true and correct copy of the documents described above by U.S. mail to the following addresses:

Clerk of the Superior Court
Attn: Sue Hall
Apache County Courthouse
70 West Third South
St. John's, AZ 85936
(928) 337-4364

Honorable Eddward P. Ballinger, Jr.
Judge of the Superior Court, Maricopa County
East Court Building, # 513
101 West Jefferson
Phoenix, AZ 85003
(602) 506-8551

Honorable Michael C. Nelson
Judge of the Superior Court, Apache County
Post Office Box 667
St. Johns, AZ 85936
(Sent to: 70 W. Third South, Saint Johns, AZ 85936)
(928) 337-7555

James T. Meggesto

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ANNE D. NOTO (DC)°
MARY J. PAVEL (DC)°
DAVID C. MIELKE (NM)°
JAMES E. GLAZE (DC)°
GARY F. BROWNELL (NM)°
COLIN C. HAMPSON (CA)
DOUGLAS W. WOLF (DC)°
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WILLIAM F. STEPHENS (DC)
ADDIE C. ROLNICK (DC)
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KAY E. MAASSEN GOUWENS (AK)°
MATTHEW S. JAFFE (DC)°
PETER G. ASHMAN (AK)°

°NOT ADMITTED IN CA

June 3, 2008

Scott M. Deeny, Deputy Counsel
Arizona Department of Water Resources
Legal Division
3550 North Central Avenue
Phoenix, AZ 85012

Re: Request for Information Related to Parcels on NRCE Maps in *Little Colorado River Adjudication* Described as "In-Holdings"

Dear Mr. Deeny:

ADWR inquired about two parcels located within the boundaries of the Reservation in District 6 shown on maps included with the Hopi claims, and which we understand are coded in the Arizona State Land Department files as private lands.

As discussed below, one parcel is in trust status while the other is in fee. While one parcel is in fee status, since it is located within the exterior boundaries of the Reservation, it does not alter those boundaries and constitutes a part of the Reservation. *See* 18 U.S.C. § 1151 (defining Indian country for jurisdictional purposes to include "all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and, including rights-of-way running through the Reservation"). Further detail regarding the status of those parcels is described below.

1. The large red square in the northwest corner of the map corresponds to the location of the Hopi Mission School. This forty-acre site is located in the Village of Kykotsmovi. On September 13, 1925 a fee patent was issued to the General Conference of Mennonites of North America described as:

> [T]he west half of the northwest quarter of the northeast quarter and the east half of the northwest quarter of the northeast quarter of Section thirty-four in Township twenty-nine north of Range sixteen east of the Gila and Salt River Meridian, Arizona, containing forty acres.

The patent was issued under the provisions of the Act of September 21, 1922, 42 Stat. 994-995, codified at 25 U.S.C. § 280. Consistent with that Act, the patent provides that when the "lands are no longer used for mission or school purposes said lands shall revert to the Indian owners." Also reserved is a right-of-way "for ditches or canals constructed by the authority of the United States." This is the only parcel of fee land on the Hopi Reservation. We understand that the Mission School is connected to and uses water from the Kykotsmovi municipal water system. There is a well on the property but we are informed that it is inactive.

2. The small parcel in the southeast corner of the map appears to correspond to the Sunlight Mission. This site is located near the Village of Mishongovi. On April 11, 1910, a fee patent was issued to the Women's American Baptist Home Mission Society for five acres described as:

> The east half of the east half of the northwest quarter of the northwest quarter of the northwest quarter, and the west half of the west half of the northeast quarter of the northwest quarter of the northwest quarter of Section twenty-five in Township twenty-eight north of Range seventeen east of the Gila and Salt River Meridian, Arizona.

On June 9, 1964 the Women's American Baptist Home Mission conveyed this land back to the United States to be held in trust for the Hopi Tribe.

Accordingly, both parcels are a part of and should not be set off from the Reservation.

Previously, we discussed the "Murphy" tracts in the Moenkopi area. There are twenty-one parcels interspersed among the allotments, comprising approximately five acres each, totaling approximately 105 acres. While the Tribe is not aware of the complete history of these tracts, it believes that the federal government surveyed these tracts but never allotted them. Enclosed is a map showing the allotments and "Murphy" tracts.

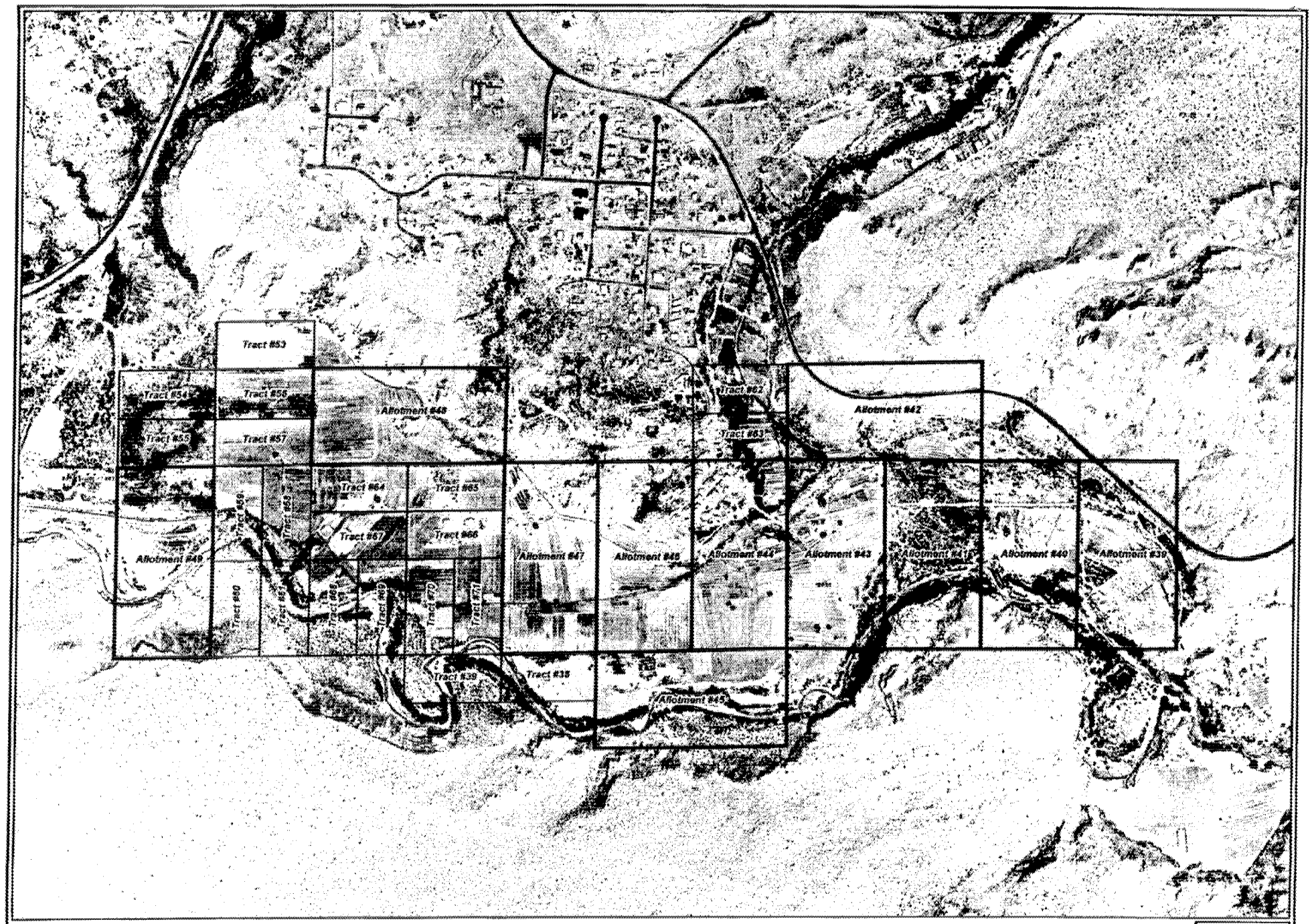
Sincerely,

Colin Cloud Hampson

CCH/dd
Enclosure
18corr~

cc (w/encl.): Vanessa Boyd Willard, Dept. of Justice
Scott Canty, Office of General Counsel, Hopi Tribe
Priscilla Pavatea, Director, Range Management, Hopi Tribe
Clayton Honyumptewa, Office of Hopi Land Administration, Hopi Tribe
Robert Charley, Office of Real Estate Services, Hopi Tribe

A-5
Other Water Uses



Moencopi Village
Allotments/Tracts
Moencopi, AZ

10-0301013-0601

F. Stewart} Blue Canon. A.T. March 14. 1892.

Know all men by these presents, I, the undersigned, have this day located these Springs and claim 100 inches of this water for mining and milling purposes,

These Springs are more particularly described as situated in the Blue Canon, about 25 miles East of Tuba City and about one mile west of the Moqui Reservation and about three miles south of the Chak La. Pi. Coal fields in Coconino County, Arizona Territory, and shall be known as the Stewart Springs.

Freeman Stewart.

Recorded March 14th. 1892, at ten oclock A.M.

C.A. Bush.
County Recorder.

1191237
6061-25. I. O.

4 1040 R

The United States of America,

To all to whom these presents shall come, Greeting:

WHEREAS, an Order of the Secretary of the Interior has been deposited in the General Land Office, directing that a fee simple patent issue to the General Conference of Mennonites of North America, for the west half of the northwest quarter of the northeast quarter and the east half of the northwest quarter of the northeast quarter of Section thirty-four in Township twenty-nine north of Range sixteen east of the Gila and Salt River Meridian, Arizona, containing forty acres:

NOW KNOW YE, That the UNITED STATES OF AMERICA, in consideration of the premises, HAS GIVEN AND GRANTED, and by these presents DOES GIVE AND GRANT, unto the said General Conference of Mennonites of North America, and to its successors, the lands above described; TO HAVE AND TO HOLD the same, together with all the rights, privileges, immunities, and appurtenances, of whatsoever nature, thereunto belonging, unto the said General Conference of Mennonites of North America, and to its successors and assigns forever. Provided, that when the lands herein described are no longer used for mission or school purposes said lands shall revert to the Indian owners. And there is reserved from the lands hereby granted, a right of way thereon for ditches or canals constructed by the authority of the United States.

IN TESTIMONY WHEREOF, I, Calvin Coolidge,

President of the United States of America, have caused these letters to be made Patent, and the Seal of the General Land Office to be hereunto affixed.

GIVEN under my hand, at the City of Washington, the THIRTIETH day of SEPTEMBER in the year of our Lord one thousand nine hundred and TWENTY-FIVE and of the Independence of the United States the one hundred and FIFTIETH

By the President: Calvin Coolidge

By Viola B. Pugh, Secretary.

M. P. LeRoy

Recorder of the General Land Office.

Doc: 09-0009

RECORD OF PATENTS: Patent Number 966986

APPENDIX B

Table

Table B-1. Flow Duration Data for USGS Stream Gages in Vicinity of Hopi Indian Reservation

Gage No.	Stream and Location	n[1]	Period of Record	Percent of time discharge (cfs) is equaled or exceeded													
				1	5	10	15	20	30	40	50	60	70	80	90	95	99
9402300	Little Colorado River near Desert View	2,038	1990-2006	2,580	1,300	872	586	449	294	244	233	227	223	220	216	209	201
9402000	Little Colorado River near Cameron	21,764	1947-2006	3,080	1,230	600	322	177	54	14	2.2	0.2	--	--	--	--	--
9401000	Little Colorado River at Grand Falls	13,750	1925-1995	3,270	1,410	710	397	220	79	24	8	0.42	--	--	--	--	--
9401500	Moenkopi Wash near Cameron	4,141	1953-1965	300	34	7.6	3.9	2.9	1.9	1	0.1	--	--	--	--	--	--
9401400	Moenkopi Wash near Tuba City	9,824	1940-1978	295	30	9	5.2	4.1	3	2.2	1.4	0.4	--	--	--	--	--
9401280	Moenkopi Wash at Moenkopi	5,206	1926-1940	508	41	12	8	7	5.1	4.4	3.8	2	0.3	--	--	--	--
9401260	Moenkopi Wash at Moenkopi	11,141	1976-2006	178	18	6.2	4.4	3.6	2.9	2.3	1.9	1.4	0.7	--	--	--	--
9401250	Moenkopi Wash near Moenkopi	1,004	1973-1976	102	6	3.7	3	2.7	2	2	2	1.6	1.3	0.7	0.07	--	--
9401239	Coal Mine Wash near Shonto	1,623	1978-1982	30	4.2	2	0.8	0.5	0.22	0.15	0.1	0.01	--	--	--	--	--
9401229	Coal Mine Wash Tributary 2 near Kayenta	730	1977-1979	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--
9401226	Coal Mine Wash Tributary 1 near Kayenta	1,461	1977-1981	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--
9401110	Dinnebito Wash near Sand Springs	4,594	1993-2006	91	7.3	0.71	0.52	0.48	0.42	0.38	0.34	0.3	0.25	0.21	0.15	0.11	0.07
9400583	Jeddito Wash near Jeddito	4,445	1993-2005	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--
9400568	Polacca Wash near Second Mesa	4,638	1994-2006	95	2.4	0.4	0.27	0.24	0.2	0.16	0.12	0.09	0.07	0.04	0.01	--	--
9400562	Oraibi Wash near Talani Lakes	4,177	1995-2006	96	7.1	0.14	--	--	--	--	--	--	--	--	--	--	--

Source: ADWR (20008f)

Note:

[1] n is the number of daily mean measurements recorded at the the gage during the period of record.

Figures

Figure B-1. USGS Stream Gage 09401110 (Dinnebito Wash near Sand Springs)

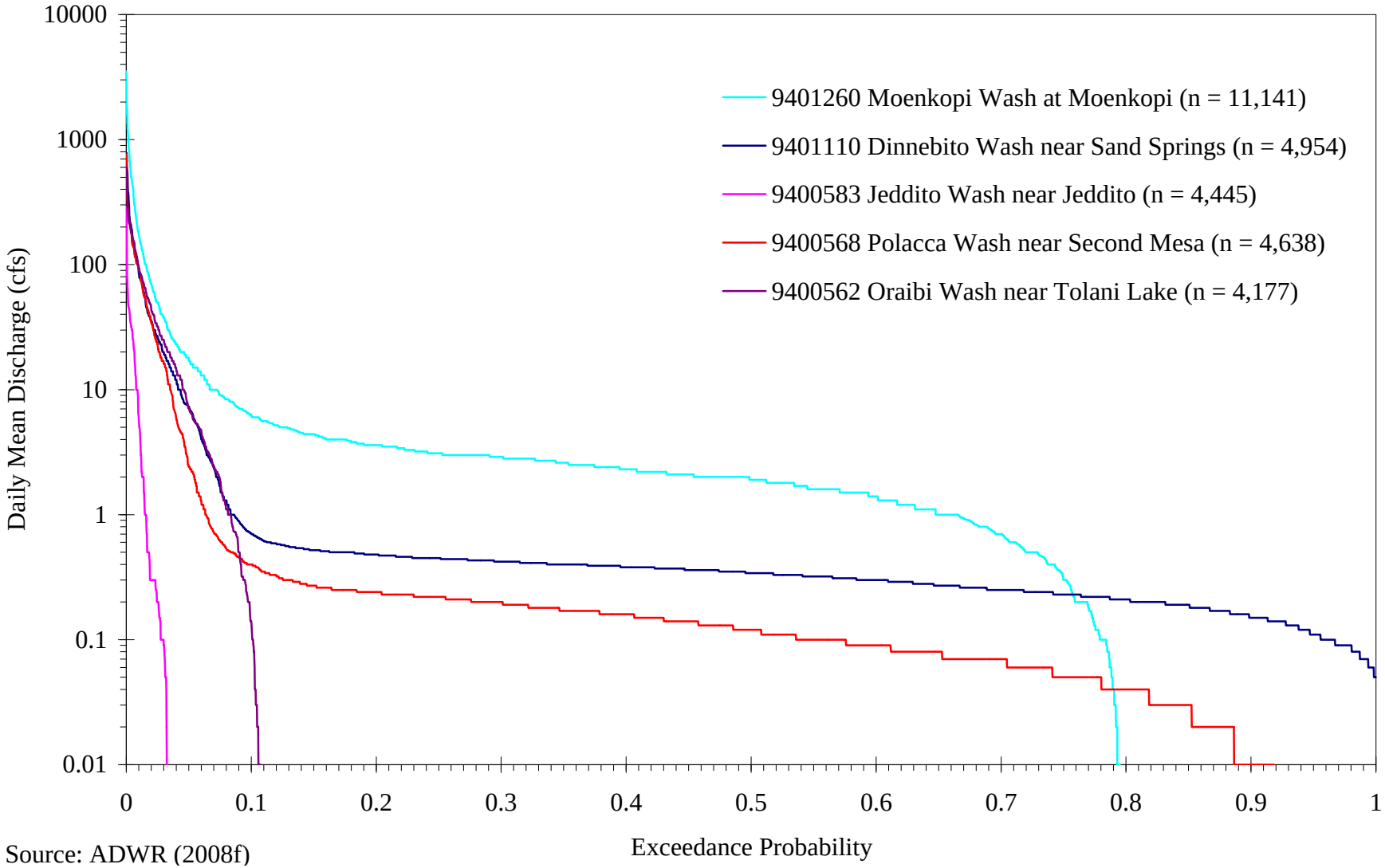
Figure B-2. USGS Stream Gage 09400583 (Jeddito Wash near Jeddito)

Figure B-3. USGS Stream Gage 09401260 (Moenkopi Wash at Moenkopi)

Figure B-4. USGS Stream Gage 09400562 (Oraibi Wash near Talani Lake)

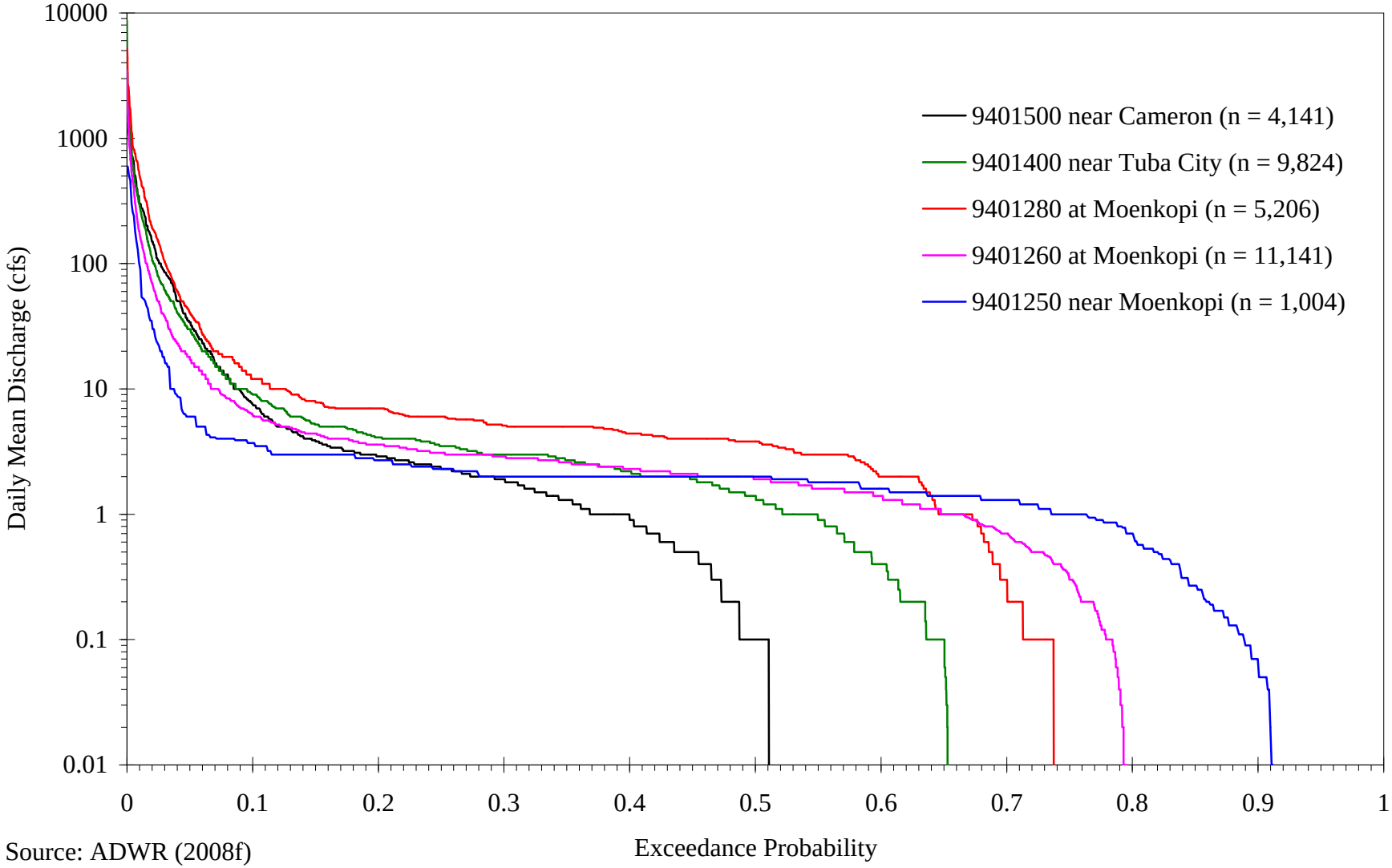
Figure B-5. USGS Stream Gage 0940568 (Polacca Wash near Second Mesa)

Figure B-6. Flow Duration Curves for the Middle Sections of the Hopi Washes



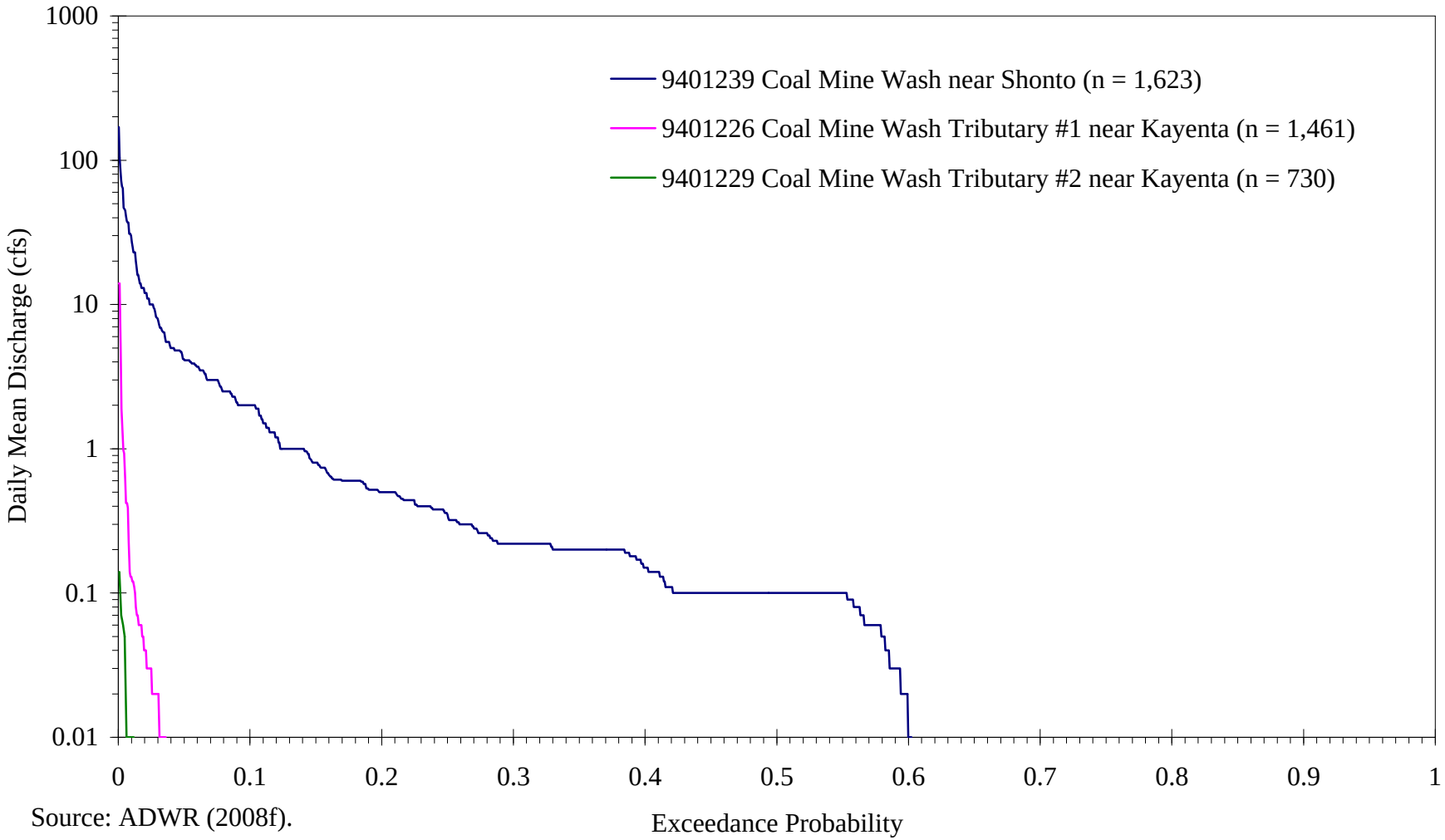
Source: ADWR (2008f)

Figure B-7. Flow Duration Curves for Middle and Lower Moenkopi Wash



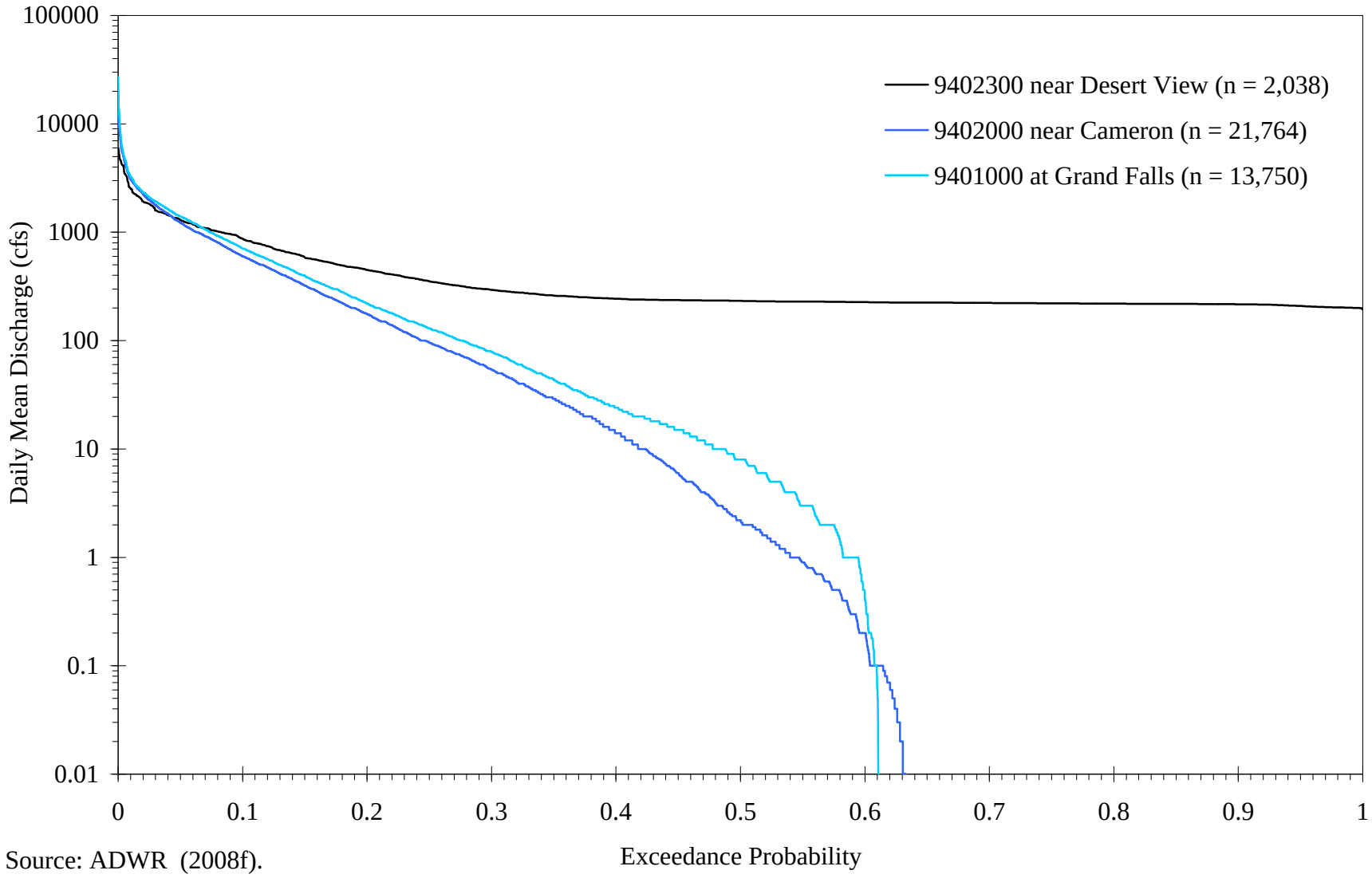
Source: ADWR (2008f)

Figure B-8. Flow Duration Curves for Coal Mine Wash Watershed Along Upper Moenkopi Wash



Source: ADWR (2008f).

Figure B-9. Flow Duration Curves for Lower Little Colorado River



Source: ADWR (2008f).

APPENDIX C

Text

APPENDIX C: HOPI IMPOUNDMENT INVENTORY

C.1 INTRODUCTION

In its role as technical advisor to the Little Colorado River (LCR) Adjudication Court, the Arizona Department of Water Resources (ADWR) is currently preparing a preliminary Hydrographic Survey Report for the Hopi Indian Reservation (Preliminary Hopi HSR). As requested by the Court, ADWR is verifying Hopi water right claims in the HSR, including the claims to 561 impoundments. This document presents an inventory of impoundments on the Reservation and ADWR's verification of the impoundment claims. This information supports **Tables 7-6** and **7-7**, which are presented in **Chapter 7**.

Two tables are provided here. **Table C-1** lists data for impoundments claimed by the Hopi Tribe and the United States on the Tribe's behalf. **Table C-2** lists data for other impoundments that ADWR identified on the Reservation that were not claimed in the adjudication. The remainder of this document explains the content of the two tables and describes the data that ADWR reviewed and collected. Also provided is a brief analysis of the tabulated data including information on impoundment surface area, capacity, condition, design, and use. Photographs of several Hopi impoundments are presented in **Figures C-1** through **C-13**.

C.2 INVENTORY OF CLAIMED IMPOUNDMENTS

Four documents provide information on Hopi impoundment claims:

- *The Hopi Tribe's Amended Statement of Claimant*, filed with the Court on January 29, 2004;
- *United States' Amended Statement of Claimant on Behalf of the Hopi Tribe*, filed with the Court on January 29, 2004;

- *Hopi Indian Reservation Spring, Well and Impoundment Inventory*, a compact disk (CD) prepared by a United States consultant and sent to ADWR in April 2005 (NRCE, 2005); and
- *Little Colorado River-Hopi Reservation Well, Spring, and Impoundment Verification Information for ADWR*, a letter report and CD prepared by a United States consultant and sent to ADWR via the Hopi in June 2008 (NRCE, 2008).

Both of the statements of claimants (SOCs) filed in January 2004 list 561 impoundments on the Reservation. The CD that was sent to ADWR in April 2005 listed the same impoundments claimed in January 2004. The June 2008 letter report and CD provided additional information for some of the claimed impoundments that ADWR could not originally verify.

Table C-1 compiles data that ADWR collected related to the Hopi impoundment claims. The table has a total of 18 columns. Each column, from left to right in the table, is described below.

Claim No. – Each claimed impoundment was given a unique identification number by the Hopi Tribe and a different, unique identification number by the United States.

Location – Impoundment locations are provided in Universal Transverse Mercator (UTM) 'Easting' and 'Northing' coordinates.

Location Source Code – Impoundment locations were available from three data sources listed in table footnote 1. These sources include (a) ADWR field Global Positioning System (GPS) readings referenced to the North America Datum of 1983 (NAD83); (b) impoundment locations, in NAD83, based on ADWR analysis of aerial photography; and, (c) claimed impoundment locations, originally referenced to NAD27 and reprojected by ADWR to NAD83.

Approximate Elevation – Impoundment elevations were estimated, in feet above mean sea level, using the UTM coordinates listed in the table and digital elevation model (DEM) data provided by the USGS.

Surface Area – The next 3 columns in the table present the following impoundment surface areas, in acres:

Claimed – surface area claimed by the Hopi Tribe and the United States. Note that, for a few impoundments, surface area was either not claimed or a value of "0" was claimed by one or both claimants;

ADWR Field Measurement – surface area measured in the field by ADWR staff; and

ADWR Photo Analysis – surface area measured in the office by ADWR staff based on analysis of black and white (1997) and color (2005) aerial photography.

ADWR Spillway Crest Height – the vertical distance, in feet, measured in the field by ADWR staff from the lowest point on the outside of the impoundment berm to the spillway crest.

Impoundment Storage Capacity – The next 3 columns in the table present the following impoundment storage capacities in acre-feet:

Claimed – storage capacity claimed by the Hopi Tribe and the United States;

From ADWR Field Measurements – storage capacity calculated by ADWR based on data it collected in the field. Formulae used to calculate capacities for impoundments and claimed natural depressions are listed in table footnote 6; and

From ADWR Regression Analysis – storage capacity estimated by ADWR based on its analysis of aerial photography. A regression equation was developed based on the relationship between impoundment storage capacity measured by ADWR in the field and impoundment surface area delineated by ADWR from aerial photographs. The equation and some related statistical data are listed in table footnote 7.

ADWR Verification of Impoundment Claims – The next three columns indicate how and if ADWR verified the impoundment claims:

Photo Analysis – claimed impoundment locations were plotted on color (2005) aerial photography. If a claimed impoundment appeared on the photography, it was noted by a check in the table;

Field Visit – between 2005 and 2008, ADWR attempted to inspect several claimed impoundments on the Reservation, focusing on those impoundments that were not initially identified on topographic maps and aerial photography and about 10% of the remaining impoundments. If ADWR found an impoundment in the field, it was noted by a check in the table; and

Supporting Evidence from Hopi – in June 2007, ADWR requested information for several claimed impoundments which, at that time, it could not verify. A response to this request was received in June 2008, and additional information was incorporated into the inventory, as appropriate.

Special Conditions – Several special conditions were noted by ADWR related to the condition, design and use of the claimed impoundments. These conditions are listed in table footnote 8 and include:

- The impoundment intersects an agricultural field that ADWR identified in 2005 (AG);
- The berm of the impoundment is, or appears to be, breached (BR). ADWR did not calculate the storage capacity for impoundments with breached berms;
- The berm appears to be used for flood and/or erosion control purposes (FC);
- The storage capacity of the impoundment is limited due to siltation (LC);
- There are two or more impoundments at the claimed location (MI);
- The claimed impoundment is a natural depression (topographic low) without a berm (ND);
- The claimed impoundment is formed by a berm constructed within a natural depression (NDS);
- ADWR could not find an impoundment at the claimed location through either field inspection or photo analysis (NF);
- Due to poor field access, ADWR could not inspect the claimed location (PA);
- The claimed impoundment is located on the Peabody Western Coal Company (PWCC) leasehold (PL), is a permanent Peabody sediment pond (PP) or is a temporary Peabody sediment pond (PS);
- The impoundment was also claimed by the Hopi for recreational use (RC). All impoundments were claimed by both the Hopi and United States for stock use; and
- One or more silt traps are located upstream of the impoundment (ST). Storage capacity associated with silt traps is not reflected in ADWR's storage estimates.

Notes – The last column in **Table C-1** presents miscellaneous information for several impoundments, with most notes related to the special conditions described above. In addition, the following are often noted:

- Whether a pond and/or berm shows on topographic maps at the claimed location;
- Whether the berm is degraded or severely eroded;
- Distance from claimed location that ADWR found the impoundment;
- Other features found in the vicinity of the claimed location, including wells and other impoundments; and
- Reservoir names for those impoundments also claimed for recreational use.

C-3 ANALYSIS OF CLAIMED IMPOUNDMENTS

Based on the data compiled in **Table C-1**, the following conclusions are drawn regarding claimed impoundments on the Reservation:

- ADWR was able to verify 557 or about 99% of the 561 claimed Hopi impoundments through use of aerial photography and/or ground inspection. ADWR was unable to verify 4 or about 1% of the 561 claimed Hopi impoundments through either means of verification.
- ADWR attempted to ground inspect a total of 135 claimed impoundments. Of these attempted inspections, 7 impoundments were not found, 39 impoundments were found but breached, 88 impoundments were found not breached, and 1 impoundment was found under construction. Additional data provided by the Hopi after ADWR's field work indicate that one impoundment not found was removed during reclamation of a mine and two others were not found because the claimed location was incorrect.
- ADWR determined that a total of 237 or about 42% of the claimed Hopi impoundments have breached berms. Of these, 40 were identified by ADWR in the field and 197 were identified by ADWR photo analysis. The claimed storage capacity of these impoundments totals approximately 2,039 acre-feet. ADWR did not measure or estimate the capacity of these impoundments.

- The four impoundments that ADWR could not verify, the one impoundment it found under construction, and the one impoundment that was removed have a combined claimed capacity of approximately 24 acre-feet.
- Of the 318 remaining impoundments, ADWR measured the storage capacity of 64 of these using field data it collected and estimated the storage capacity of the other 254 impoundments based on photo analysis. The claimed storage capacity of these impoundments totaled approximately 2,436 acre-feet compared to a total storage capacity of 2,190 acre-feet measured or estimated by ADWR. Note that 53 of these impoundments were determined by ADWR to have limited storage capacity due to siltation, and 44 were determined by ADWR to have degraded or severely eroded berms. ADWR made no attempt to correct or adjust its storage capacities for loss in storage due to siltation or berm condition unless the latter was determined to be breached, in which case capacities were not measured or estimated. Storage capacity was assumed to be the maximum volume of water that could be stored by the impoundment when there is no discharge of water and regardless of the potential loss in storage due to siltation.
- If field data were collected, ADWR measured impoundment storage capacity based on the following equation, also used by the Hopi consultants (HKM):

  $Y = (SA)(H)0.4$

  where, Y = impoundment storage capacity, in acre-feet

  SA = impoundment surface area measured in field, in acres

  H = outside spillway crest or embankment height, in feet

  0.4 = assumed pond shape factor.
- To estimate impoundment storage capacity from photo analysis, ADWR developed the following regression equation:

  $Y = 1.66(X)^{1.36}$ with a correlation coefficient (R) = 0.793

  where, Y = impoundment storage capacity, in acre-feet

  X = impoundment surface area delineated from photo analysis, in acres.

The regression equation is based on ADWR field data from 51 claimed impoundments with calculated storage capacities of 0.37 to 102 acre-feet. ADWR (2008) provides further discussion of the regression analysis.

- Four (4) of the claimed impoundments that ADWR ground inspected were found to be natural depressions (topographic lows) without berms and another 6 claimed impoundments were identified by ADWR as natural depressions through photo analysis. ADWR calculated storage capacity for natural depressions using the HKM equation. If ADWR ground inspected the natural depression, spillway crest or embankment height was replaced in the equation with the measured depth. If ADWR identified the natural depression through photo analysis, surface area was delineated from the photo and an average pond depth of 4.125 was assumed based on available field data.
- Four other claimed impoundments were determined by ADWR to consist of berms within a larger natural depression. For these features, ADWR determined the surface area of the natural depression from photo analysis and used the aforementioned regression analysis to estimate storage capacity.
- Two or more impoundments were identified at 9 of the claimed locations, and 3 claimed locations were found to have functioning silt traps upstream of the impoundments. When estimating or measuring storage capacity, ADWR grouped and counted multiple impoundments together but ignored silt traps.
- In addition to their claimed use for stock watering, 4 impoundments were claimed by the Hopis (but not the United States) for recreational use:
    - Keams Lake or Beaver Reservoir (Hopi ID No. I-11-431);
    - Lake Maho (I-11-408);
    - Twin Dam No. 1 (I-11-415); and,
    - Twin Dam No. 2 (I-11-407).

  With the exception of Keams Lake, these impoundments were found by ADWR in the field to be partially or completely silted in.
- Sixteen other claimed impoundments appear to ADWR to be used for flood and/or erosion control, and seven other claimed impoundments were identified by ADWR in 2005 to be associated with agricultural fields.

- The pond formed behind one of the claimed impoundments (I-11-147) was found to be split by a Navajo-Hopi boundary fence.
- Nine claimed impoundments are located on the PWCC leasehold. Of these, seven are reportedly temporary sediment ponds scheduled to removed after 2010 (PWCC, 2006), one has already been removed during mine reclamation, and one is an existing stockpond apparently unrelated to mining.

C.4 INVENTORY OF UNCLAIMED IMPOUNDMENTS

ADWR identified 180 impoundments on the Reservation that were not claimed. **Table C-2** compiles the data that ADWR collected for these impoundments. The table is similar in structure as **Table C-1** and contains 12 columns. Each column, from left to right in the table, is described below.

ADWR ID No. – Each unclaimed impoundment was given a unique ADWR identification number based on its drainage location and the number of unclaimed impoundments that ADWR identified in the drainage. For example, ADWR ID No. UNC-J-07 designates the seventh ('07') unclaimed impoundment ('UNC') that ADWR identified in the Jeddito Wash ('J') drainage.

Location – Impoundment locations are provided in Universal Transverse Mercator (UTM) 'Easting' and 'Northing' coordinates.

Location Source Code – Impoundment locations were available from three data sources listed in table footnote 1. These sources include (a) ADWR field Global Positioning System (GPS) readings referenced to the North America Datum of 1983 (NAD83); (b) impoundment locations, in NAD83, based on ADWR analysis of aerial photography; and, (c) claimed impoundment locations, originally referenced to NAD27 and reprojected by ADWR to NAD83.

Approximate Elevation – Impoundment elevations were estimated, in feet above mean sea level, using the UTM coordinates listed in the table and digital elevation model (DEM) data provided by the USGS (see footnote 2).

Surface Area from ADWR Field Visit – Surface area measured in the field by ADWR staff.

Surface Area from ADWR Photo Analysis – Surface area measured in the office by ADWR staff based on analysis of black and white (1997) and color (2005) aerial photography (see footnote 3).

Impoundment Storage Capacity from ADWR Regression Analysis – Storage capacity estimated by ADWR based on its analysis of aerial photography (see footnote 4). A regression equation was developed based on the relationship between impoundment storage capacity measured by ADWR in the field and impoundment surface area delineated by ADWR from aerial photographs. The equation and some related statistical data are listed in table footnote 5.

Evidence of Impoundment – The next two columns indicate the evidence that ADWR had of the unclaimed impoundment:

> ***ADWR Photo Analysis*** – unclaimed impoundment location was identified on color (2005) aerial photography and noted by a check in the table; and
>
> ***ADWR Field Visit*** – during its field investigation of agricultural lands and claimed well and impoundment sites, ADWR noted the unclaimed impoundment and noted it by a check in the table.

Special Conditions – Several special conditions were noted by ADWR related to the condition, design, and use of the unclaimed impoundments. These conditions are listed in table footnote 6 and include:

- The impoundment intersects an agricultural field that ADWR identified in 2005 (AG);
- The berm of the impoundment is, or appears to be, breached (BR). ADWR did not calculate the storage capacity for impoundments with breached berms;
- The berm appears to be used for flood and/or erosion control purposes (FC);
- The storage capacity of the impoundment is limited due to siltation (LC);
- There are two or more impoundments at the claimed location (MI);
- The claimed impoundment is a natural depression (topographic low) without a berm (ND);

- The claimed impoundment is located on the PWCC leasehold (PL), is a permanent Peabody sediment pond (PP) or is a temporary Peabody sediment pond (PS).
- The impoundment was also claimed by the Hopi for recreational use (RU). All impoundments were claimed by both the Hopi and United States for stock use; and,
- One or more silt traps are located upstream of the impoundment (ST). Storage capacity associated with silt traps is not reflected in ADWR's storage estimates.

Notes – The last column in **Table C-2** presents miscellaneous information for several impoundments, with most notes related to the special conditions described above. In addition, the following are often noted:

- Whether a pond and/or berm shows on topographic maps at the unclaimed location;
- Other features found in the vicinity of the unclaimed impoundment, including wells and other impoundments; and
- Reservoir and dam names, if known.

C.5 ANALYSIS OF UNCLAIMED IMPOUNDMENTS

Based on the data compiled in **Table C-2**, the following conclusions are drawn regarding unclaimed impoundments on the Reservation:

- ADWR identified 180 unclaimed impoundments through analysis of aerial photography and by comparison to data in **Table C-1**. Eight of these impoundments were also observed during ADWR field visits, and topographic maps show ponds at 49 of these sites and wells at three other sites.
- Seven of the unclaimed impoundments are located near claimed impoundments that ADWR verified.
- 57 or about 32% of the unclaimed impoundments were determined through ADWR photo analysis to have breached berms. ADWR did not estimate the capacity of these impoundments.

- The other 123 unclaimed impoundments were estimated to have a total storage capacity of about 363 acre-feet. Note that three of these impoundments were determined to have limited storage capacity due to siltation. As with the claimed impoundments it verified, ADWR made no attempt to correct or adjust these capacities for loss in storage.
- One of the unclaimed impoundments appears to be a natural depression without a berm.
- The combined storage capacity of the three largest unclaimed impoundments without breached berms is 283 acre-feet, which is about 78% of the total storage capacity estimated by ADWR. These relatively large impoundments include:
    - UNC-M-33 (Pasture Canyon Reservoir) – 202 acre-feet
    - UNC-M-37 (Lower Lagoon Reservoir) – 51 acre-feet
    - UNC-M-25 – 30 acre-feet.

  Each of the remaining impoundments without breached berms had an estimated capacity of 6 acre-feet or less, and most had a capacity of less than 1 acre-feet.
- Two or more impoundments were identified at four of the unclaimed impoundment sites, and one other site appeared to have a functioning silt trap upstream of the impoundment. As with the claimed impoundments that ADWR verified, the estimated capacity of multiple impoundments at a site were counted together but silt traps were ignored.
- One of the unclaimed impoundments (Pasture Canyon Reservoir) is known through ADWR field work to be used for recreation and irrigation.
- Three other unclaimed impoundments appear to ADWR to be used for flood and/or erosion control and 31 others appear to be associated with agricultural fields.
- Eleven unclaimed impoundments are located on the PWCC leasehold. Of these, six are temporary sediment ponds scheduled to be removed after 2010 (PWCC, 2006), one is a permanent PWCC sediment pond, and four are existing stockponds apparently unrelated to mining.

C.6 REFERENCES

Arizona Department of Water Resources (ADWR), 2008. *Hopi Impoundments: Regression Analysis*. Internal report prepared in support of Preliminary Hopi HSR, April 2008.

HKM Engineering (HKM), 2007. *Quantification Methodology for Hopi Livestock Uses*. April 2007 report submitted to ADWR by Colin Hampson (Hopi Tribe) on May 16, 2007.

Natural Resources Consulting Engineers, Inc. (NRCE), 2008. *Little Colorado River-Hopi Reservation Well, Spring, and Impoundment Verification Information for ADWR*. Letter with compact disk from N. Allen to V. Willard (USDOJ) dated June 2, 2008.

_____, 2005. *Hopi Indian Reservation, Spring, Well and Impoundment Inventory*. Compact disc submitted to ADWR in April 2005.

Peabody Western Coal Company (PWCC), 2006. *Topsoil, Pond, and Culvert Map*. Draft copy revised September 26, 2006.

Tables

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-1-2	I011	514506.86	4013596.34	c	5966	1.55	NA	NA	NA	9.30	NA	NA	✓			BR	Photo analysis suggests berm breached
I-1-5	I012	504775.52	4015227.15	b	5400	0.46	NA	0.26	NA	1.84	NA	0.26	✓				
I-1-6	I013	519315.76	4027269.94	b	6360	0.36	NA	1.25	NA	2.30	NA	2.26	✓				
I-1-7	I014	520946.71	4027490.86	b	6474	1.03	NA	0.20	NA	7.44	NA	0.19	✓				
I-1-9	I015	517418.45	4013569.01	b	6101	1.72	NA	6.29	NA	11.71	NA	20.34	✓				
I-1-14	I016	508278.27	4013406.65	b	5583	1.21	NA	3.04	NA	7.23	NA	7.56	✓				
I-1-15	I017	505398.72	4016814.20	b	5440	0.69	NA	6.94	NA	2.75	NA	23.28	✓				
I-1-17	I018	520469.67	4025627.67	b	6280	0.77	NA	1.02	NA	4.96	NA	1.71	✓			LC, PA	Photo analysis suggests berm severely eroded; unable to access claimed location
I-1-18	I019	503771.36	4013911.32	a	5368	0.36	0.40	NA	12.80	3.40	2.07	NA		✓			
I-1-20	I0110	521530.79	4020665.65	c	6204	0.80	NA	NA	NA	5.46	NA	NA	✓			BR	Photo analysis suggests berm breached
I-1-21	I0111	517546.67	4024499.33	b	6114	0.65	NA	0.25	NA	5.17	NA	0.25	✓				
I-1-22	I0112	512671.34	4018971.65	b	5664	0.34	NA	0.93	NA	1.65	NA	1.51	✓				
I-1-24	I0113	519038.82	4019395.59	a	6044	0.52	NA	NA	NA	3.10	NA	NA		✓		BR	Berm breached
I-1-26	I0114	521954.78	4020023.63	c	6287	0.69	NA	NA	NA	4.96	NA	NA	✓			BR	Photo analysis suggests berm breached
I-1-27	I0115	522108.02	4018275.10	a	6284	0.46	1.16	NA	8.70	2.75	4.04	NA		✓		LC	Impoundment silted in
I-1-28	I0116	521596.81	4023317.73	b	6480	1.29	NA	NA	NA	9.30	NA	NA	✓			BR	Berm breached
I-1-29	I0117	520082.89	4017709.05	b	6059	0.80	NA	6.61	NA	4.50	NA	21.76	✓				
I-1-30	I0118	511729.17	4015477.63	b	5643	0.40	NA	1.04	NA	2.09	NA	1.76	✓				
I-1-31	I0119	520636.80	4019310.60	c	6161	1.15	NA	NA	NA	7.35	NA	NA	✓			BR	Photo analysis suggests berm breached
I-1-32	I0120	520529.80	4018877.58	a	6124	1.08	NA	NA	NA	7.32	NA	NA		✓		BR	Berm breached
I-1-33	I0121	517131.37	4017930.29	b	5960	0.86	NA	3.98	NA	5.17	NA	10.91	✓				
I-1-35	I0122	521722.67	4012796.19	b	5972	0.23	NA	2.76	NA	0.73	NA	6.62	✓				
I-1-36	I0123	514330.36	4013007.46	b	5963	0.86	NA	0.75	NA	2.75	NA	1.13	✓				
I-1-37	I0124	516156.71	4021243.85	b	5904	0.29	NA	0.64	NA	1.95	NA	0.90	✓				
I-1-280	I0125	521769.93	4015201.17	b	6077	0.69	NA	1.46	NA	4.41	NA	2.77	✓				
I-1-287	I0126	519723.95	4013690.94	b	6070	0.52	NA	0.70	NA	2.89	NA	1.02	✓			LC	Photo analysis suggests berm severely eroded
I-1-548	I0127	502781.18	4012054.73	b	5322	0.34	NA	0.76	NA	0.83	NA	1.15	✓				
I-2-291	I021	525530.78	4024902.80	a	6246	0.69	NA	NA	NA	3.31	NA	NA		✓		BR	Berm breached
I-2-292	I022	524882.50	4013608.90	b	5911	0.72	NA	1.06	NA	3.16	NA	1.79	✓				
I-2-293	I023	522804.85	4016816.66	b	6209	1.43	NA	2.66	NA	9.76	NA	6.31	✓			LC	Photo analysis suggests berm severely eroded with flow through structure; topo map shows berm
I-2-295	I024	543632.44	4022656.90	b	6431	0.80	NA	1.09	NA	4.18	NA	1.88	✓				
I-2-296	I025	523250.25	4018270.87	b	6341	0.46	NA	1.08	NA	1.10	NA	1.85	✓				
I-2-297	I026	523427.17	4018171.39	b	6334	0.34	NA	2.67	NA	0.83	NA	6.33	✓				
I-2-298	I027	525823.12	4024349.99	a	6216	0.60	NA	0.24	NA	3.37	NA	0.24	✓	✓		LC	Berm severely eroded
I-2-300	I028	522558.15	4017793.70	b	6307	0.55	NA	1.76	NA	1.32	NA	3.59	✓				
I-2-301	I029	525629.77	4024869.80	a	6243	1.15	NA	NA	NA	6.43	NA	NA		✓		BR	Berm breached
I-2-304	I0210	538719.92	4017874.90	b	6242	0.34	NA	0.83	NA	1.65	NA	1.29	✓				
I-2-305	I0211	524371.68	4013400.45	b	5965	0.73	NA	0.56	NA	4.11	NA	0.75	✓				Photo analysis suggests degraded linear berm able to store water
I-2-306	I0212	524065.38	4019400.74	a	6331	0.62	0.78	NA	9.00	3.22	2.80	NA		✓			
I-2-307	I0213	524043.38	4019302.08	b	6320	0.45	NA	1.04	NA	2.51	NA	1.74	✓				
I-2-308	I0214	525668.50	4016719.38	b	6044	0.41	NA	1.58	NA	2.48	NA	3.09	✓				
I-2-309	I0215	523118.27	4015650.43	b	6100	0.69	NA	0.63	NA	4.41	NA	0.89	✓				
I-3-50	I031	554802.70	4017861.66	a	6524	1.72	NA	NA	NA	8.95	NA	NA		✓		BR	Berm breached

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-3-54	I032	551619.67	4012629.50	a	6427	0.57	NA	NA	NA	2.30	NA	NA		✓		BR	Berm breached
I-3-55	I033	551545.45	4013009.43	b	6425	0.51	NA	0.97	NA	1.21	NA	1.60	✓				
I-3-87	I034	550013.91	4021051.63	b	6863	0.86	NA	2.82	NA	4.13	NA	6.80	✓				
I-3-88	I035	552074.31	4020795.94	b	6729	1.81	NA	1.70	NA	9.40	NA	3.42	✓				
I-3-89	I036	552089.28	4021028.06	b	6736	0.28	NA	0.11	NA	1.11	NA	0.08	✓			LC	Photo analysis suggests entrenched stream flows through
I-3-209	I037	552394.50	4028075.63	b	6362	0.23	NA	0.84	NA	1.10	NA	1.31	✓			PL,PS	PWCC sediment pond WW-9A
I-3-210	I038	556053.93	4029741.84	a	6529	0.26	0.32	0.30	5.90	1.45	0.75	NA		✓		PL,PS	PWCC sediment pond J7-E
I-3-211	I039	555759.31	4029483.35	b	6463	0.34	NA	1.27	NA	2.07	NA	2.30	✓			PL,PS	PWCC sediment pond J7-F
I-3-212	I0310	555371.04	4029261.87	b	6449	0.69	NA	1.40	NA	3.31	NA	2.62	✓			PL,PS	PWCC sediment pond J7-K
I-3-214	I0311	552382.11	4027870.47	b	6320	1.77	NA	1.36	NA	21.21	NA	2.53	✓			PL,PS	PWCC sediment pond WW-9
I-3-215	I0312	556318.04	4029847.09	b	6545	0.69	NA	1.26	NA	3.86	NA	2.27	✓			PL,PS	PWCC sediment pond J7-CD
I-3-219	I0313	555106.71	4029323.01	c	6435	0.69	NA	NA	NA	4.96	NA	NA		✓	✓	PL	Impoundment was removed by recent mine reclamation.
I-3-243	I0314	552401.18	4028219.33	b	6361	0.69	NA	1.64	NA	3.58	NA	3.25	✓			PL,PS	PWCC sediment pond WW-9B
I-3-262	I0315	555169.96	4023544.70	b	6714	0.30	NA	0.87	NA	1.45	NA	1.38	✓				
I-3-302	I0316	560518.81	4031244.04	b	6817	0.60	NA	1.14	NA	4.78	NA	1.99	✓			PL	
I-4-559	I041	476589.87	3989206.73	b	5048	not provided	NA	0.13	NA	8.02	NA	0.10	✓				Surface area not provided by either Hopi Tribe or United States
I-4-560	I042	491471.52	3991799.14	c	5749	not provided	NA	NA	NA	8.02	NA	NA				NF	Impoundment not found; surface area not provided by either Hopi Tribe or United States
I-4-561	I043	484958.28	3987060.47	a	5361	not provided	NA	0.58	NA	8.02	NA	0.79	✓	✓			Surface area not provided by either Hopi Tribe or United States
I-5-1	I051	508902.37	4010270.93	a	5581	0.08	NA	0.37	NA	0.10	NA	0.44	✓	✓			Impoundment located approximately 210 feet NE of claimed location
I-5-3	I052	508461.75	4011555.18	b	5613	1.38	NA	1.34	NA	6.61	NA	2.49	✓				
I-5-4	I053	501806.07	4010845.09	c	5297	0.32	NA	NA	NA	0.77	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-8	I054	502084.06	4011366.10	a	5315	0.11	NA	NA	NA	0.28	NA	NA		✓		BR	Berm breached
I-5-10	I055	502167.72	4003175.39	b	5157	0.13	NA	0.08	NA	0.15	0.13**	NA	✓			ND, PA	Photo analysis suggests natural depression; topo map shows pond; unable to access claimed location
I-5-11	I056	501937.63	4010445.80	b	5290	0.43	NA	1.70	NA	1.72	NA	3.43	✓				
I-5-12	I057	514035.87	4010490.26	c	5946	0.23	NA	NA	NA	0.92	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-13	I058	512957.22	4010697.74	a	5875	1.81	NA	0.52	NA	10.12	NA	0.67	✓	✓		AG	
I-5-16	I059	501312.09	4008471.10	a	5211	24.79	NA	NA	NA	218.18	NA	NA		✓		BR	Berm breached
I-5-19	I0510	508299.22	4011641.60	b	5597	0.69	NA	0.68	NA	2.75	NA	0.98	✓				
I-5-25	I0512	508022.98	4011603.48	b	5576	0.92	NA	0.88	NA	7.70	NA	1.40	✓				Photo analysis suggests small rectangular berm downstream of breached silt trap
I-5-34	I0513	506816.55	4008155.11	b	5518	1.15	NA	1.39	NA	6.43	NA	2.60	✓				
I-5-216	I0514	500634.08	3991972.16	b	5102	0.92	NA	0.91	NA	5.14	NA	1.47	✓				Photo analysis suggests rectangular berm downstream of breached silt trap
I-5-217	I0515	504567.17	3988974.24	a	5254	6.89	NA	NA	NA	44.08	NA	NA		✓		BR	Berm breached
I-5-218	I0516	505334.34	3989661.68	b	5238	2.87	NA	5.66	NA	18.37	NA	17.60	✓				
I-5-223	I0517	516265.02	3986215.32	b	5785	1.38	NA	2.74	NA	6.06	NA	6.55	✓				
I-5-23	I0511	502758.05	4011244.10	c	5328	1.10	NA	NA	NA	6.17	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-231	I0518	507554.02	4003328.21	c	5347	1.03	NA	NA	NA	4.13	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-234	I0519	515086.84	3997469.11	b	5627	0.46	NA	0.75	NA	2.20	NA	1.13	✓				
I-5-238	I0520	519089.74	3988767.62	b	5971	0.23	NA	0.42	NA	0.46	NA	0.50	✓			LC	Photo analysis suggests berm severely eroded
I-5-239	I0521	516349.70	3985359.85	b	5795	0.69	NA	1.63	NA	3.31	NA	3.24	✓				
I-5-240	I0522	515950.17	3985880.86	b	5771	1.15	NA	9.47	NA	6.43	NA	35.52	✓				
I-5-241	I0523	519855.83	3987919.40	c	5943	0.92	NA	NA	NA	4.41	NA	NA	✓			BR	Photo analysis suggests berm breached

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-5-242	I0524	520163.42	3987959.74	b	5979	0.69	NA	1.91	NA	3.31	NA	4.00	✓				
I-5-245	I0525	516415.27	3985615.34	b	5793	1.72	NA	3.14	NA	8.95	NA	7.90	✓				
I-5-246	I0526	512427.01	3985654.33	c	5723	0.52	NA	NA	NA	5.30	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-247	I0527	521080.80	3988044.41	a	6022	1.84	NA	NA	NA	12.49	NA	NA		✓		BR	Berm breached
I-5-248	I0528	502490.21	3988652.67	a	5580	0.36	1.33	NA	7.30	2.61	3.88	NA		✓			
I-5-249	I0529	511689.71	3995801.92	b	5546	0.60	NA	0.65	NA	2.89	NA	0.92	✓				
I-5-250	I0530	513196.94	3994725.08	b	5622	1.21	NA	2.36	NA	5.79	NA	5.35	✓				
I-5-251	I0531	517191.56	3993854.87	b	5849	0.86	NA	0.74	NA	3.79	NA	1.10	✓				
I-5-252	I0532	513967.91	3992283.11	a	5706	0.45	NA	0.41	NA	1.79	NA	0.50	✓	✓			
I-5-254	I0533	518965.46	3988454.70	b	5948	0.34	NA	0.35	NA	1.65	NA	0.40	✓			LC	Photo analysis suggests berm severely eroded
I-5-255	I0534	518882.85	3987817.39	c	5918	1.61	NA	NA	NA	9.64	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-256	I0535	518532.86	3987362.39	c	5920	1.16	NA	NA	NA	5.11	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-257	I0536	517848.02	3986658.30	a	5905	0.46	NA	0.72	NA	2.39	NA	1.06	✓	✓			
I-5-259	I0537	516127.91	3987102.37	a	5781	5.74	NA	NA	NA	45.91	NA	NA		✓		BR	Berm breached
I-5-261	I0538	520558.24	3987412.33	b	6049	0.46	NA	1.80	NA	2.02	NA	3.69	✓				
I-5-271	I0539	518432.94	4006507.64	b	5896	1.03	NA	1.06	NA	6.20	NA	1.80	✓				
I-5-272	I0540	519483.43	4006881.36	b	5973	0.52	NA	1.07	NA	2.89	NA	1.81	✓				
I-5-273	I0541	521410.75	4007754.37	a	5876	1.21	NA	NA	NA	7.23	NA	NA		✓		BR	Berm breached
I-5-274	I0542	518729.19	4008579.96	b	5892	1.74	NA	4.30	NA	12.50	NA	12.10	✓				
I-5-276	I0543	511474.42	4004729.14	b	5209	0.23	NA	0.54	NA	1.10	NA	0.72	✓				
I-5-278	I0544	518516.04	4006538.71	b	5899	0.34	NA	0.72	NA	1.93	NA	1.07	✓				
I-5-279	I0545	517834.69	4006005.98	b	5849	1.87	NA	5.65	NA	16.41	NA	17.59	✓				
I-5-281	I0546	509015.59	4007264.98	b	5707	0.48	NA	0.97	NA	1.16	NA	1.59	✓				
I-5-282	I0547	506171.44	4005001.15	b	5421	0.86	NA	1.51	NA	4.13	NA	2.91	✓				
I-5-283	I0548	506831.37	4006225.10	b	5504	1.38	NA	0.70	NA	6.61	NA	1.02	✓			LC	Photo analysis suggests berm severely eroded
I-5-284	I0549	507603.99	4008075.19	a	5553	1.72	NA	NA	NA	8.95	NA	NA		✓		BR	Berm breached
I-5-285	I0550	508698.25	4006407.60	b	5647	0.26	NA	0.79	NA	1.03	NA	1.21	✓				
I-5-286	I0551	508820.44	4006692.02	b	5661	0.92	NA	1.93	NA	4.41	NA	4.08	✓				
I-5-288	I0552	509197.11	4001960.03	a	5095	1.15	2.42	NA	6.60	5.97	6.39	NA		✓		FC	Berm appears to be flood/erosion control related; protects a road that runs northwest to southeast
I-5-289	I0553	508462.16	4003462.53	b	5359	0.69	NA	2.20	NA	2.75	NA	4.86	✓				
I-5-290	I0554	511320.99	4004427.16	b	5204	0.92	NA	1.44	NA	5.51	NA	2.73	✓				Photo analysis suggests claimed feature is downstream of linear berm
I-5-299	I0555	516671.87	4010963.40	b	5874	0.65	NA	1.30	NA	3.36	NA	2.38	✓				
I-5-549	I0556	509461.75	4002168.84	b	5103	0.34	NA	0.65	NA	0.70	NA	0.93	✓				
I-5-550	I0557	509681.99	4001731.24	c	5097	0.34 *	NA	NA	NA	0.70	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-551	I0558	510459.97	4001942.25	c	5107	1.65 *	NA	NA	NA	4.00	NA	NA	✓			BR	Photo analysis suggests berm breached
I-5-557	I0559	520712.34	4010977.37	b	5943	0.43	NA	1.65	NA	1.50	NA	3.29	✓				
I-6-82	I061	536773.51	3988554.72	a	5920	1.43	NA	0.62	NA	12.90	NA	0.87	✓	✓			
I-6-83	I062	530639.39	3985893.44	b	5848	2.81	NA	14.83	NA	13.49	NA	65.43	✓				
I-6-98	I063	529327.60	3989629.97	b	6150	0.13	NA	0.19	NA	0.41	NA	0.17	✓				
I-6-113	I064	541802.93	4001934.72	a	6321	0.23	NA	0.58	NA	1.01	NA	0.80	✓	✓		LC	Impoundment silted in
I-6-115	I065	522534.04	3985824.14	b	6001	0.92	NA	3.70	NA	4.41	NA	9.88	✓				
I-6-224	I066	538027.87	4002464.41	b	6258	1.15	NA	1.59	NA	6.89	NA	3.12	✓				
I-6-225	I067	536804.14	4005693.78	b	6119	0.92	NA	0.85	NA	6.24	NA	1.33	✓				

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-6-226	I068	535823.08	3998863.90	b	6352	0.46	NA	0.95	NA	2.39	NA	1.54	✓				
I-6-227	I069	541563.12	4007976.40	b	6378	0.60	NA	0.90	NA	3.58	NA	1.43	✓			LC	Photo analysis suggests berm severely eroded
I-6-228	I0610	539490.82	4003937.22	b	6253	1.38	NA	4.06	NA	8.82	NA	11.21	✓				
I-6-229	I0611	535690.25	4001814.16	b	6122	1.38	NA	2.25	NA	11.02	NA	5.01	✓				
I-6-230	I0612	525357.52	4004338.68	b	5743	0.29	NA	0.40	NA	1.38	NA	0.47	✓				
I-6-232	I0613	530433.68	4010654.40	c	6006	0.92	NA	NA	NA	4.78	NA	NA	✓			BR	Photo analysis suggests berm breached; topo map shows berm
I-6-235	I0614	525777.75	3989842.42	c	6012	2.58	NA	NA	NA	14.46	NA	NA	✓			BR	Photo analysis suggests berm breached; top map shows small oval pond
I-6-236	I0615	530067.72	3994293.40	a	6085	2.41	NA	NA	NA	13.50	NA	NA		✓		BR	Berm breached
I-6-237	I0616	524503.06	3991308.48	b	5944	0.70	NA	2.38	NA	4.50	NA	5.41	✓				
I-6-258	I0617	532965.98	4001389.55	a	6063	1.38	4.76	NA	10.70	8.82	20.36	NA		✓			
I-6-260	I0618	522902.72	4011086.38	c	5884	0.70	NA	NA	NA	4.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-6-265	I0619	527029.07	4004475.54	b	5809	0.69	NA	0.97	NA	4.68	NA	1.59	✓				
I-6-267	I0620	536418.08	3999846.07	b	6243	0.92	NA	4.93	NA	8.08	NA	14.61	✓				
I-6-316	I0621	543979.00	3985641.57	b	5866	1.38	NA	0.26	NA	4.41	NA	0.26	✓			LC	Photo analysis suggests berm severely eroded
I-6-322	I0622	543628.44	3985882.79	b	5891	0.20	NA	0.63	NA	0.73	NA	0.88	✓				
I-6-323	I0623	539217.17	3984916.33	b	5920	2.75	NA	4.45	NA	15.43	NA	12.69	✓				
I-6-324	I0624	544494.67	3984527.34	c	5816	1.01	NA	NA	NA	4.85	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-94	I071	548700.99	4001591.44	b	6187	0.23	NA	0.98	NA	1.10	NA	1.61	✓				
I-7-95	I072	545768.88	4001184.98	b	6175	0.23	NA	0.66	NA	1.10	NA	0.94	✓				
I-7-103	I073	548409.38	4002163.56	b	6199	0.23	NA	0.60	NA	1.10	NA	0.83	✓				
I-7-105	I074	546841.64	4000589.41	c	6146	0.46	NA	NA	NA	2.20	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-112	I075	547590.15	4000461.10	a	6163	5.17	20.54	31.97	NA	37.19	NA	186.39	✓	✓			Berm severely eroded
I-7-117	I076	549281.66	4001900.42	a	6207	0.23	NA	NA	NA	1.10	NA	NA		✓		BR	Berm breached
I-7-120	I077	546833.66	4001520.15	b	6189	0.34	NA	2.01	NA	1.63	NA	4.29	✓				
I-7-123	I078	549350.95	4003446.49	b	6213	3.73	NA	10.56	NA	22.38	NA	41.22	✓				
I-7-130	I079	550554.43	4003849.84	b	6238	0.23	NA	0.93	NA	1.19	NA	1.51	✓				
I-7-134	I0710	548892.93	4004906.95	b	6311	0.29	NA	0.85	NA	1.38	NA	1.32	✓				
I-7-135	I0711	548808.67	4004916.99	b	6308	0.70	NA	0.83	NA	3.94	NA	1.30	✓				
I-7-136	I0712	548366.48	4004363.95	b	6279	0.29	NA	0.64	NA	1.49	NA	0.91	✓				
I-7-311	I0713	554044.72	3988030.33	c	6116	0.86	NA	NA	NA	5.17	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-314	I0714	551025.67	3990195.31	b	5953	1.38	NA	4.09	NA	8.26	NA	11.34	✓				
I-7-315	I0715	552721.34	3988971.42	b	6032	1.61	NA	24.78	NA	6.43	NA	131.73	✓				
I-7-317	I0716	551106.70	3989765.35	c	5959	0.40	NA	NA	NA	0.96	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-319	I0717	549424.69	3989389.35	c	5901	1.72	NA	NA	NA	8.95	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-320	I0718	547008.21	3988142.48	a	5863	0.52	1.35	NA	3.40	2.89	1.83	NA		✓			
I-7-321	I0719	551805.37	3986464.02	a	5996	1.72	2.30	NA	12.80	13.77	11.75	NA		✓			
I-7-325	I0720	547450.68	3984476.33	c	5882	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-326	I0721	546161.67	3987952.35	c	5871	0.70	NA	NA	NA	3.66	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-327	I0722	547623.68	3985930.34	c	5856	0.52	NA	NA	NA	4.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-329	I0723	549876.70	3985909.33	c	5931	1.89	NA	NA	NA	12.12	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-330	I0724	550219.69	3990470.35	c	5932	0.27	NA	NA	NA	0.80	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-331	I0725	547602.67	3989778.36	c	5894	0.70	NA	NA	NA	3.94	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-536	I0726	556164.74	3984805.30	c	6103	0.69	NA	NA	NA	3.31	NA	NA	✓			BR	Photo analysis suggests berm breached
I-7-556	I0727	548459.69	3985762.33	c	5871	1.61 *	NA	NA	NA	6.40	NA	NA	✓			BR	Photo analysis suggests berm breached

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-8-48	I081	520136.65	3982852.64	b	5788	2.75	NA	1.54	NA	12.12	NA	2.99	✓			LC	Photo analysis suggests berm severely eroded
I-8-49	I082	519687.76	3971914.09	b	5571	0.52	NA	1.68	NA	2.48	NA	3.36	✓			LC	Photo analysis suggests berm severely eroded
I-8-51	I083	517386.19	3977659.07	b	5650	0.92	NA	4.90	NA	5.14	NA	14.47	✓				
I-8-52	I084	519850.94	3980217.47	b	5682	0.69	NA	2.20	NA	3.31	NA	4.87	✓				
I-8-53	I085	518855.90	3976632.85	a	5582	0.52	0.98	NA	2.10	2.48	0.82	NA		✓		LC	Berm severely eroded but able to hold water
I-8-56	I086	518671.86	3981106.37	c	5725	2.30	NA	NA	NA	5.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-57	I087	518944.83	3971424.26	c	5552	0.34	NA	NA	NA	0.55	NA	NA	✓			BR	Photo analysis suggests berm breached; entrenched stream flows around west end
I-8-58	I088	517966.88	3982236.37	c	5823	0.40	NA	NA	NA	1.93	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-59	I089	515558.63	3973496.75	b	5618	1.43	NA	2.80	NA	8.03	NA	6.76	✓			LC	Photo analysis suggests berm severely eroded
I-8-60	I0810	520773.22	3983227.45	b	5799	1.15	NA	0.29	NA	5.51	NA	0.31	✓				
I-8-61	I0811	520684.46	3983501.63	b	5833	0.86	NA	1.08	NA	4.48	NA	1.85	✓				
I-8-62	I0812	520118.84	3983534.33	b	5819	2.75	NA	4.95	NA	19.83	NA	14.70	✓				
I-8-63	I0813	521528.87	3983802.42	b	5812	0.92	NA	0.91	NA	11.20	NA	1.45	✓			LC	Photo analysis suggests berm severely eroded
I-8-64	I0814	514650.57	3960498.56	b	5528	4.59	NA	3.00	NA	27.55	NA	7.42	✓			LC	Photo analysis suggests berm severely eroded
I-8-65	I0815	515967.92	3980824.34	c	5896	0.46	NA	NA	NA	0.92	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-66	I0816	517125.58	3973827.35	b	5561	3.44	NA	1.66	NA	6.89	NA	3.30	✓			LC	Photo analysis suggests berm severely eroded
I-8-67	I0817	519019.92	3971227.22	b	5560	0.11	NA	1.35	NA	0.18	NA	2.50	✓				
I-8-68	I0818	517742.88	3981559.36	c	5782	0.52	NA	NA	NA	2.89	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-79	I0819	518284.84	3972133.26	c	5514	0.92	NA	NA	NA	8.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-81	I0820	517707.91	3971144.42	b	5513	0.69	NA	0.70	NA	3.86	NA	1.02	✓				
I-8-84	I0821	507322.84	3976077.62	b	5943	0.23	NA	0.35	NA	0.73	0.58**	NA	✓	✓		ND	Photo analysis suggests natural depression
I-8-85	I0822	507216.51	3974696.81	a	5912	12.40	9.59	NA	21.90	123.97	84.01	NA		✓		LC	Impoundment silted to 5 ft below spillway crest
I-8-86	I0823	514451.91	3970373.20	c	5491	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached; entrenched stream flows around west end
I-8-90	I0824	515433.90	3971418.22	c	5508	0.70	NA	NA	NA	3.94	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-91	I0825	512546.95	3971080.19	c	5614	0.23	NA	NA	NA	0.46	NA	NA				NF	Impoundment not found
I-8-104	I0826	513265.89	3960545.07	a	5465	1.89	NA	NA	NA	9.85	NA	NA		✓		BR	Berm breached
I-8-106	I0827	513063.22	3959475.12	a	5506	5.51	5.19	NA	11.60	48.48	23.79	NA		✓			
I-8-107	I0828	515431.84	3957188.05	c	5720	0.86	NA	NA	NA	4.13	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-108	I0829	510922.45	3966003.19	b	5387	1.84	NA	2.16	NA	8.82	NA	4.73	✓				
I-8-109	I0830	509267.97	3964078.07	c	5343	1.15	NA	NA	NA	6.89	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-110	I0831	507634.19	3961607.98	a	5277	1.72	0.73	NA	2.70	6.89	0.79	NA		✓		LC	Berm severely eroded but able to hold water
I-8-111	I0832	507564.97	3959185.00	c	5283	0.36	NA	NA	NA	1.72	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-116	I0833	520604.31	3969027.87	b	5735	0.72	NA	2.24	NA	2.87	NA	5.00	✓				
I-8-118	I0834	517324.09	3969365.51	a	5549	0.92	2.15	NA	5.40	4.41	4.64	NA		✓			
I-8-119	I0835	521684.76	3965741.22	c	5796	0.70	NA	NA	NA	4.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-121	I0836	512152.94	3968240.15	c	5444	0.92	NA	NA	NA	5.80	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-124	I0837	512636.92	3964393.11	c	5390	0.39	NA	NA	NA	1.86	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-125	I0838	513008.32	3959362.47	a	5511	0.05	1.34	NA	3.00	0.25	1.65	NA		✓			
I-8-126	I0839	511500.36	3963318.07	b	5346	0.92	NA	0.95	NA	8.30	NA	1.55	✓				
I-8-129	I0840	517080.83	3959997.10	c	5673	0.86	NA	NA	NA	3.44	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-131	I0841	515581.30	3960829.08	b	5583	1.89	NA	1.12	NA	12.88	NA	1.95	✓				
I-8-132	I0842	514885.70	3960562.34	b	5542	0.52	NA	0.49	NA	4.70	NA	0.62	✓			LC	Photo analysis suggests berm severely eroded
I-8-137	I0843	511978.92	3963405.09	a	5363	0.92	NA	NA	NA	7.90	NA	NA		✓		BR	Berm breached

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-8-207	I0844	501515.20	3975638.50	b	5827	2.01	NA	1.97	NA	9.64	NA	4.18	✓				
I-8-208	I0845	506196.13	3978405.21	c	6019	0.69	NA	NA	NA	2.75	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-213	I0846	500035.92	3984070.81	b	5801	0.92	NA	2.66	NA	4.41	NA	6.31	✓				
I-8-220	I0847	512057.00	3979553.28	c	6044	2.30	NA	NA	NA	15.61	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-221	I0848	514881.50	3982161.53	b	5911	0.69	NA	0.90	NA	3.31	NA	1.45	✓				
I-8-222	I0849	511460.02	3980473.29	c	5965	1.03	NA	NA	NA	6.20	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-233	I0850	512677.72	3978582.30	b	6134	1.38	NA	2.06	NA	9.92	NA	4.44	✓				
I-8-244	I0851	511967.27	3979662.11	b	6033	0.34	NA	0.44	NA	1.38	NA	0.54	✓				
I-8-253	I0852	512110.84	3981481.22	a	5963	1.84	NA	2.26	NA	13.22	NA	5.04	✓	✓			
I-8-263	I0853	509859.04	3976866.23	c	6127	3.21	NA	NA	NA	21.85	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-264	I0854	507375.12	3981267.26	c	5847	1.86	NA	NA	NA	8.93	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-266	I0855	505979.73	3982748.47	b	5786	0.46	NA	1.45	NA	6.10	NA	2.77	✓			LC	Photo analysis suggests berm severely eroded
I-8-268	I0856	504985.16	3983076.04	a	5776	4.02	6.21	NA	26.80	48.21	66.53	NA		✓			
I-8-269	I0857	503443.23	3982962.24	a	5829	1.21	NA	NA	NA	7.71	NA	NA		✓		BR	Berm breached
I-8-270	I0858	501190.28	3983116.21	c	5807	0.69	NA	NA	NA	4.41	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-275	I0859	511217.85	3983286.77	b	5832	0.77	NA	1.03	NA	4.96	NA	1.73	✓				
I-8-277	I0860	506627.14	3981056.25	c	5907	1.89	NA	NA	NA	11.36	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-294	I0861	505499.17	3982530.25	c	5794	2.84	NA	NA	NA	17.05	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-303	I0862	515280.00	3975493.74	b	5728	0.23	NA	0.33	NA	0.92	NA	0.37	✓				
I-8-391	I0863	521106.76	3958187.12	c	5663	0.69	NA	NA	NA	3.31	NA	NA	✓			BR	Photo analysis suggests berm breached
I-8-392	I0864	521058.09	3960761.44	b	5814	1.61	NA	0.87	NA	9.64	NA	1.37	✓				
I-8-395	I0865	520178.77	3956798.10	a	5683	0.57	NA	NA	NA	2.75	NA	NA		✓		BR	Berm breached
I-8-558	I0866	516095.91	3978850.32	c	5747	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-96	I091	522799.75	3971223.29	c	5780	0.70	NA	NA	NA	3.94	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-127	I092	524350.76	3981364.40	a	5683	0.92	NA	NA	NA	2.20	NA	NA		✓		BR	Berm breached
I-9-128	I093	524445.76	3983062.42	c	5765	0.52	NA	NA	NA	2.89	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-310	I094	537362.16	3982984.97	b	6146	0.41	NA	0.32	NA	1.82	NA	0.35	✓				Topo map shows pond but no berm
I-9-312	I095	538353.68	3975037.29	c	5671	1.89	NA	NA	NA	7.58	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-313	I096	537832.69	3974358.29	c	5663	2.75	NA	NA	NA	15.43	NA	NA	✓			AG, BR	Photo analysis suggests berm breached
I-9-318	I097	540875.68	3977910.31	c	5725	0.92	NA	NA	NA	4.41	NA	NA	✓			BR	Photo analysis suggests berm breached; topo map shows berm
I-9-328	I098	541707.67	3977426.30	c	5761	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-332	I099	533548.68	3959767.16	c	5460	0.28	NA	NA	NA	0.99	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-338	I0910	535739.67	3958700.15	c	5582	1.49	NA	NA	NA	8.36	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-339	I0911	523183.14	3960654.84	b	5729	0.86	NA	0.35	NA	4.48	NA	0.39	✓				
I-9-340	I0912	526103.95	3960812.86	b	5578	2.84	NA	3.00	NA	3.41	4.95**	NA	✓	✓		ND	Natural depression; no berm at claimed location
I-9-342	I0913	522923.74	3961347.84	b	5793	0.57	NA	1.57	NA	2.98	NA	3.06	✓				
I-9-343	I0914	530093.71	3965821.22	c	5603	5.06	NA	NA	NA	5.06	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-344	I0915	532938.69	3963214.19	c	5477	4.13	NA	NA	NA	19.83	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-345	I0916	533506.69	3965956.22	c	5523	0.60	NA	NA	NA	2.65	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-346	I0917	531323.69	3957541.14	c	5385	3.44	NA	NA	NA	23.42	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-347	I0918	530895.69	3958371.15	c	5385	1.84	NA	NA	NA	11.02	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-349	I0919	535157.71	3956768.63	a	5548	0.52	0.46	NA	7.00	2.69	1.29	NA		✓			Impoundment located approximately 295 feet SE of claimed location
I-9-367	I0920	529442.70	3957811.14	c	5374	0.52	NA	NA	NA	3.90	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-369	I0921	543762.05	3978716.05	b	5819	0.13	NA	0.08	NA	0.46	0.13**	NA	✓			ND	Photo analysis suggests natural depression

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-9-370	I0922	524086.96	3959004.81	b	5605	0.46	NA	0.08	NA	1.84	NA	0.05	✓				Photo analysis suggests berm severely eroded
I-9-378	I0923	537954.69	3975346.30	c	5670	1.38	NA	NA	NA	5.51	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-380	I0924	543318.12	3978915.04	b	5817	0.13	NA	0.12	NA	0.46	NA	0.09	✓				
I-9-381	I0925	542802.17	3982690.09	b	5787	16.00	12.91	NA	18.50	160.00	95.55	NA		✓			
I-9-382	I0926	542663.69	3983031.26	b	5783	3.44	NA	1.11	NA	17.91	NA	1.93	✓				
I-9-383	I0927	544117.72	3972442.88	a	6153	0.57	NA	0.17	NA	2.30	NA	0.15	✓	✓			
I-9-384	I0928	544134.32	3972611.40	b	6154	1.21	NA	1.86	NA	6.75	NA	3.88	✓				
I-9-385	I0929	540497.69	3983398.35	c	5849	0.69	NA	NA	NA	2.75	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-386	I0930	540925.69	3982657.35	c	5818	2.01	NA	NA	NA	9.64	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-389	I0931	523196.74	3964292.21	c	5807	2.81	NA	NA	NA	21.36	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-390	I0932	529443.13	3956893.61	a	5345	0.92	2.91	NA	1.30	8.90	1.52	NA		✓		LC	Impoundment silted in
I-9-398	I0933	541558.68	3982106.34	c	5791	1.16	NA	NA	NA	12.00	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-511	I0934	538655.65	3957481.14	c	5638	0.57	NA	NA	NA	1.84	NA	NA	✓			AG, BR	Photo analysis suggests berm breached
I-9-512	I0935	538429.65	3957480.14	c	5638	0.46	NA	NA	NA	1.47	NA	NA	✓			BR	Photo analysis suggests berm breached
I-9-530	I0936	544782.59	3972489.10	a	6176	0.09	NA	0.15	NA	0.21	NA	0.13	✓	✓			
I-9-554	I0937	538093.68	3973868.28	c	5648	1.39 *	NA	NA	NA	4.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-140	I101	562007.53	3957614.61	b	6219	1.15	NA	2.31	NA	5.97	NA	5.20	✓				
I-10-371	I102	550996.87	3983905.09	b	5990	1.74	NA	4.31	NA	9.03	NA	12.15	✓				
I-10-372	I103	548513.69	3982973.32	c	5964	2.75	NA	NA	NA	16.53	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-373	I104	545860.67	3981761.32	c	5884	0.92	NA	NA	NA	8.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-374	I105	548567.69	3981343.30	c	6058	1.15	NA	NA	NA	6.43	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-375	I106	547484.67	3978320.29	a	6014	0.43	NA	NA	NA	1.55	NA	NA		✓		BR	Berm breached
I-10-376	I107	547434.42	3977864.73	b	6028	1.26	NA	4.98	NA	7.58	NA	14.79	✓				Topo map shows pond
I-10-387	I108	545294.66	3976146.28	c	6063	1.61	NA	NA	NA	10.28	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-396	I109	545143.65	3975779.28	c	6083	0.29	NA	NA	NA	1.26	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-414	I1010	561509.27	3968301.06	b	5742	3.21	NA	2.83	NA	3.86	NA	6.85	✓				
I-10-426	I1011	563584.72	3969548.16	a	5808	0.34	NA	NA	NA	1.65	NA	NA		✓		BR	Berm breached
I-10-427	I1012	563945.34	3969625.16	a	5829	1.61	1.72	NA	0.20	6.43	0.14	NA		✓		AG	Topo map shows a check dam
I-10-428	I1013	564466.60	3969269.95	b	5859	1.72	NA	9.96	NA	8.26	NA	38.07	✓				
I-10-429	I1014	567381.47	3964400.37	b	6308	0.52	NA	0.20	NA	1.86	NA	0.19	✓				
I-10-430	I1015	567630.82	3967280.61	b	6273	0.34	NA	0.51	NA	1.38	NA	0.67	✓				
I-10-432	I1016	567262.73	3969478.72	b	6276	0.34	NA	1.37	NA	1.65	NA	2.54	✓				
I-10-441	I1017	567061.65	3969387.11	a	6257	0.26	NA	0.48	NA	1.03	NA	0.61	✓	✓		LC	Partially breached berm able to hold water
I-10-461	I1018	566951.70	3962452.09	c	6327	0.23	NA	NA	NA	0.83	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-490	I1019	557738.28	3967018.85	b	5684	0.23	NA	0.34	NA	2.20	NA	0.38	✓		✓	ST	Mislocated on claim; new coordinates were provided by Hopi Tribe approx. 1/4 mile north of claimed location; silt trap
I-10-491	I1020	563991.76	3979187.96	b	6255	0.57	NA	1.70	NA	3.44	NA	3.43	✓			LC	Photo analysis suggests berm severely eroded; appears degraded near mid-point and at east end
I-10-492	I1021	566437.79	3980229.22	c	6306	1.21	NA	NA	NA	6.27	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-493	I1022	561460.28	3976530.61	b	6148	1.03	NA	2.89	NA	4.96	NA	7.04	✓				Topo map shows pond with no berm
I-10-494	I1023	565175.75	3975283.19	c	6263	1.72	NA	NA	NA	10.33	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-495	I1024	566167.92	3973462.02	a	5838	0.26	0.53	NA	5.30	0.83	1.13	NA		✓		AG	
I-10-496	I1025	563517.13	3970828.84	a	5793	0.39	0.44	NA	5.00	1.86	0.87	NA		✓			
I-10-498	I1026	551530.64	3958833.13	c	5525	0.50	NA	NA	NA	2.21	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-499	I1027	562423.72	3970217.17	c	5768	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-10-500	I1028	563547.96	3963825.13	a	5906	1.38	NA	0.92	NA	2.20	NA	1.48	✓	✓			
I-10-501	I1029	558612.00	3960059.53	b	5815	0.52	NA	1.41	NA	2.69	NA	2.64	✓			LC	Photo analysis suggests berm severely eroded
I-10-502	I1030	560365.67	3959632.10	c	5938	1.29	NA	NA	NA	7.23	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-503	I1031	560774.68	3961942.11	a	5842	1.81	NA	NA	NA	14.46	NA	NA		✓		BR	Berm breached
I-10-506	I1032	560535.20	3960045.48	b	5930	0.72	NA	1.22	NA	3.74	NA	2.17	✓			LC	Photo analysis suggests berm severely eroded; appears able to store water
I-10-507	I1033	559411.12	3967098.83	a	5727	0.34	NA	0.44	NA	1.10	NA	0.54	✓	✓			
I-10-508	I1034	558281.36	3963506.41	a	5703	0.72	0.91	NA	11.60	4.05	4.22	NA		✓			
I-10-509	I1035	553509.65	3960353.13	c	5583	1.38	NA	NA	NA	7.16	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-510	I1036	553592.98	3957864.94	a	5653	4.59	7.47	NA	19.00	45.91	56.74	NA		✓			
I-10-517	I1037	551307.85	3980725.62	b	6087	0.23	NA	0.34	NA	0.92	NA	0.38	✓				
I-10-518	I1038	553719.70	3974840.24	c	5905	1.87	NA	NA	NA	10.45	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-519	I1039	555225.14	3979074.02	b	6008	2.75	NA	3.68	NA	22.00	NA	9.79	✓				
I-10-520	I1040	546382.66	3973534.26	c	6122	1.81	NA	NA	NA	10.12	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-521	I1041	553869.33	3975342.37	a	5893	15.38	NA	NA	NA	172.26	NA	NA		✓		BR	Berm breached; outlet control failed
I-10-522	I1042	552070.61	3979927.24	b	6046	1.42	NA	1.42	NA	5.68	NA	2.68	✓				
I-10-523	I1043	550922.69	3978029.27	c	6067	1.89	NA	NA	NA	11.36	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-524	I1044	552640.02	3977733.99	b	5985	1.72	NA	1.94	NA	13.30	NA	4.09	✓			LC	Photo analysis suggests berm severely eroded; east half of berm can store water
I-10-525	I1045	549488.67	3974782.25	c	6027	4.82	NA	NA	NA	34.70	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-526	I1046	563614.98	3983032.77	b	6046	0.59	NA	0.39	NA	2.82	NA	0.46	✓				
I-10-527	I1047	548310.67	3974010.25	a	6003	0.57	NA	NA	NA	2.75	NA	NA		✓		BR	Berm breached
I-10-528	I1048	548847.66	3971606.23	c	5914	0.69	NA	NA	NA	3.58	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-529	I1049	546127.65	3970482.24	c	5978	0.69	NA	NA	NA	4.13	NA	NA	✓			BR	Photo analysis suggests berm breached; Topo map shows an impoundment but no berm
I-10-531	I1050	551354.69	3976612.26	c	6003	1.72	NA	NA	NA	8.95	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-532	I1051	566043.79	3982322.24	c	6245	0.23	NA	NA	NA	0.92	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-533	I1052	552890.65	3962690.15	c	5585	1.61	NA	NA	NA	10.93	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-534	I1053	553630.66	3964059.16	c	5660	0.29	NA	NA	NA	1.03	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-535	I1054	553073.17	3967164.70	a	5684	1.61	NA	0.98	NA	3.86	NA	1.62	✓	✓		FC	Structure appears to be flood control related
I-10-538	I1055	559103.39	3977451.92	b	5915	0.92	NA	8.74	NA	3.31	NA	31.83	✓				
I-10-539	I1056	557725.72	3976285.23	c	5877	1.38	NA	NA	NA	6.61	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-540	I1057	545436.65	3973163.26	c	6161	0.39	NA	NA	NA	1.86	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-541	I1058	565464.79	3982595.24	c	6183	0.92	NA	NA	NA	3.31	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-542	I1059	563813.78	3982705.25	c	6066	0.74	NA	NA	NA	3.27	NA	NA	✓			BR	Photo analysis suggests berm breached
I-10-543	I1060	558318.97	3982002.08	a	6009	1.55	1.71	1.82	NA	31.50	NA	3.77	✓	✓			
I-10-544	I1061	558792.75	3975915.86	a	5871	1.38	1.60	NA	8.40	5.51	5.36	NA		✓			
I-10-545	I1062	557859.11	3974994.13	b	5851	0.39	NA	1.71	NA	1.70	NA	3.44	✓			FC	Photo analysis suggests check dam near road; topo map shows pond but no berm
I-10-546	I1063	557043.71	3972953.21	c	5822	0.32	NA	NA	NA	1.67	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-38	I111	589795.15	3961841.05	b	6612	0.11	NA	0.23	NA	0.32	NA	0.22	✓				
I-11-39	I112	588182.91	3960198.06	c	6617	1.51	NA	NA	NA	5.42	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-138	I113	588376.02	3965360.09	b	6743	2.30	NA	3.27	NA	12.88	NA	8.35	✓				
I-11-141	I114	584948.40	3957180.63	a	6700	1.21	1.69	NA	4.00	3.37	2.70	NA		✓		ND	Natural depression; no berm at claimed location
I-11-142	I115	588359.59	3964486.23	a	6759	0.69	0.54	0.53	NA	0.83	NA	0.69	✓	✓		LC	Impoundment silted in
I-11-143	I116	589587.62	3967564.69	a	6804	14.92	0.59	NA	10.60	59.68	2.50	NA		✓		MI, ST	18" CMP inlet pipe from silt trap

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CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-11-144	I117	586600.79	3963116.82	a	6496	2.30	3.21	NA	13.70	18.40	17.57	NA		✓			
I-11-145	I118	586304.17	3963151.50	b	6482	2.30	NA	0.77	NA	13.77	NA	1.16	✓				
I-11-146	I119	585161.37	3961940.25	a	6421	4.82	11.06	NA	23.10	32.78	102.21	NA		✓			
I-11-147	I1110	587125.60	3968050.73	a	6742	6.43	6.68	NA	17.10	51.42	45.71	NA		✓			Impoundment bisected by Hopi-Navajo boundary fence
I-11-406	I1111	577795.85	3972088.59	b	6609	0.08	NA	0.08	NA	0.15	NA	0.06	✓			FC	Photo analysis suggests check dam
I-11-407	I1112	577357.52	3965147.11	a	6474	8.26	11.56	NA	15.00	92.56	69.37	NA		✓		LC, RC	Referred to as 'Twin Dam No. 2'; impoundment connected by outlet works to I1121; claimed recreational use
I-11-408	I1113	574820.18	3963152.11	a	6277	1.03	0.88	0.90	NA	7.44	NA	1.44	✓	✓		LC, RC	Referred to as 'Lake Maho'; 36" CMP drop structure through berm; impoundment silted in; claimed recreational use
I-11-409	I1114	574316.99	3963327.62	b	6439	0.40	NA	0.32	NA	1.29	NA	0.35	✓				
I-11-410	I1115	573343.87	3963776.30	b	6420	0.34	NA	1.22	NA	1.93	NA	2.17	✓				Photo analysis suggests small berm at head of drainage
I-11-411	I1116	572229.16	3964165.66	b	6388	0.46	NA	1.52	NA	2.75	NA	2.93	✓				
I-11-412	I1117	573207.27	3962560.88	b	6420	0.33	NA	0.13	NA	0.93	NA	0.11	✓			FC	Photo analysis suggests check dam
I-11-413	I1118	575937.48	3964418.77	b	6469	1.81	NA	3.34	NA	11.57	NA	8.60	✓				
I-11-415	I1119	577058.31	3965119.31	a	6478	1.29	1.39	1.17	NA	12.40	NA	2.06	✓	✓		LC, RC	Referred to as 'Twin Dam No. 1'; impoundment silted in; claimed recreational use
I-11-416	I1120	571329.77	3967533.13	c	6119	0.41	NA	NA	NA	1.65	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-417	I1121	577171.95	3965007.67	a	6463	1.72	1.76	NA	12.10	11.02	8.52	NA		✓			Impoundment is adjacent to I1112
I-11-418	I1122	577506.53	3968420.32	b	6527	0.86	NA	1.64	NA	8.30	NA	3.26	✓				Photo analysis suggests berm severely eroded
I-11-419	I1123	576960.29	3970441.85	b	6508	0.51	NA	0.89	NA	2.63	NA	1.43	✓			FC	Photo analysis suggests check dam
I-11-420	I1124	569585.12	3960146.70	b	6385	0.86	NA	0.18	NA	5.17	NA	0.16	✓				
I-11-421	I1125	575641.06	3966999.39	b	6498	1.38	NA	2.60	NA	7.71	NA	6.11	✓				Appears to be degraded but able to store water
I-11-422	I1126	577053.88	3967366.75	b	6547	0.36	NA	2.04	NA	1.15	NA	4.39	✓				
I-11-423	I1127	574026.84	3970042.66	a	6419	0.39	0.94	NA	8.10	2.02	3.04	NA		✓			
I-11-424	I1128	568003.02	3963948.25	b	6307	0.86	NA	0.13	NA	6.20	NA	0.11	✓			FC	Photo analysis suggests check dam
I-11-425	I1129	573095.53	3976661.70	a	5999	1.72	0.39	NA	2.40	8.26	0.37	NA		✓		MI	Small depression behind berm near northeast corner.
I-11-431	I1130	574139.56	3962814.50	a	6251	3.16	3.60	NA	13.30	27.78	19.13	NA		✓		RC	Referred to as 'Keams Lake' (aka Beaver Reservoir); claimed recreational use
I-11-433	I1131	569214.93	3969778.37	b	6305	0.69	NA	0.82	NA	2.75	NA	1.27	✓				Photo analysis suggests berm severely eroded
I-11-434	I1132	568134.72	3964890.11	c	6280	0.46	NA	NA	NA	2.57	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-435	I1133	571134.79	3959480.61	b	6585	0.34	NA	0.59	NA	2.20	NA	0.81	✓				Topo map shows small pond; photo analysis suggests ~120 ft berm at head of drainage
I-11-436	I1134	570694.01	3960370.05	b	6483	0.28	NA	0.31	NA	1.10	NA	0.34	✓				
I-11-437	I1135	569424.89	3962616.33	b	6220	1.03	NA	3.00	NA	6.61	NA	7.43	✓				
I-11-438	I1136	569922.72	3962901.33	b	6304	0.34	NA	0.82	NA	1.38	NA	1.27	✓			FC	Photo analysis suggests check dam
I-11-439	I1137	570062.07	3962696.34	b	6308	0.28	NA	0.90	NA	1.89	NA	1.44	✓			FC	Photo analysis suggests check dam
I-11-440	I1138	579061.51	3969483.50	b	6573	1.29	NA	1.95	NA	6.20	NA	4.14	✓				
I-11-443	I1139	573396.58	3962421.69	b	6411	0.34	NA	0.43	NA	1.10	NA	0.53	✓			FC	Photo analysis suggests check dam
I-11-462	I1140	584044.32	3969309.54	a	6822	0.92	2.70	NA	9.00	4.78	9.73	NA		✓			
I-11-468	I1141	582087.32	3967405.00	b	6777	0.69	NA	0.27	NA	2.20	NA	0.28	✓				Photo analysis suggests berm severely eroded
I-11-477	I1142	575260.86	3973578.18	c	6381	0.52	NA	NA	NA	5.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-478	I1143	569525.04	3979802.55	b	6239	0.92	NA	1.11	NA	3.67	NA	1.90	✓				Photo analysis suggests berm severely eroded
I-11-479	I1144	569041.78	3973616.17	c	5924	1.10	NA	NA	NA	2.64	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-480	I1145	571452.16	3973317.32	a	5997	1.94	2.17	NA	1.20	6.20	1.04	NA		✓			
I-11-481	I1146	577055.98	3971869.41	b	6543	0.11	NA	1.38	NA	0.31	NA	2.58	✓			FC	Photo analysis suggests check dam
I-11-482	I1147	577404.87	3971933.17	c	6575	0.09	NA	NA	NA	0.22	NA	NA	✓			BR	Photo analysis suggests berm breached

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-11-483	I1148	577959.75	3983115.85	b	6046	2.41	NA	5.95	NA	8.68	NA	18.86	✓				
I-11-484	I1149	578782.89	3972311.17	c	6663	0.34	NA	NA	NA	1.65	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-485	I1150	578914.90	3972292.26	b	6680	0.06	NA	0.45	NA	0.18	NA	0.55	✓			FC	Photo analysis suggests check dam
I-11-486	I1151	580750.95	3970529.39	b	6710	2.07	NA	2.76	NA	15.70	NA	6.63	✓				
I-11-487	I1152	575041.27	3974251.61	b	6346	0.28	NA	0.78	NA	1.00	NA	1.18	✓			FC	Photo analysis suggests check dam
I-11-488	I1153	574727.41	3971598.55	b	6411	0.86	NA	1.90	NA	4.48	NA	3.97	✓			FC	Photo analysis suggests check dam
I-11-489	I1154	570998.76	3976639.90	b	5910	0.52	NA	0.42	NA	4.60	NA	0.51	✓			LC	Photo analysis suggests berm severely eroded
I-11-497	I1155	574836.45	3973643.55	b	6359	0.14	NA	0.56	NA	0.44	NA	0.76	✓				Topo map shows pond with no berm
I-11-504	I1156	583039.94	3970753.16	c	6752	0.70	NA	NA	NA	7.90	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-505	I1157	571305.82	3975985.19	c	5943	1.38	NA	NA	NA	8.26	NA	NA	✓			BR	Photo analysis suggests berm breached
I-11-513	I1158	583960.60	3974090.28	b	6817	2.30	NA	3.25	NA	15.64	NA	8.29	✓				
I-11-514	I1159	581879.65	3974158.43	a	6787	1.15	1.28	2.08	6.10	4.60	3.11	NA	✓	✓			
I-11-515	I1160	580781.82	3972124.80	b	6751	0.69	NA	2.47	NA	4.14	NA	5.70	✓				
I-11-516	I1161	583316.21	3971156.18	a	6775	12.86	4.34	NA	5.80	61.73	10.06	NA		✓		LC	Impoundment silted in
I-11-537	I1162	567735.27	3983735.98	a	6267	0.69	2.20	NA	3.10	3.03	2.73	NA		✓		LC	Impoundment silted in
I-11-547	I1163	567911.23	3983209.69	a	6317	1.51	2.01	NA	7.50	6.63	6.02	NA		✓			
I-11-552	I1164	576041.93	3965332.22	b	6554	0.17 *	NA	0.18	NA	0.26	NA	0.16	✓			FC	Photo analysis suggests check dam with water diverted east to drainage
I-12-69	I121	513854.85	3954324.01	c	5644	1.61	NA	NA	NA	10.28	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-70	I122	510788.89	3954319.98	c	5501	0.69	NA	NA	NA	3.58	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-71	I123	504930.57	3954732.10	a	5141	1.72	NA	NA	NA	10.33	NA	NA		✓		BR	Berm breached
I-12-72	I124	504386.96	3952616.90	c	5127	1.61	NA	NA	NA	8.36	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-73	I125	500868.98	3948667.84	c	5160	1.16	NA	NA	NA	8.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-74	I126	504007.95	3950431.88	c	5107	4.02	NA	NA	NA	32.16	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-75	I127	506669.90	3947749.88	a	5063	5.62	NA	NA	NA	67.49	NA	NA		✓		BR	Berm breached
I-12-76	I128	507114.01	3947165.34	b	5082	1.38	NA	0.12	NA	8.82	NA	0.09	✓			LC	Photo analysis suggests entrenched stream flows through
I-12-77	I129	506100.89	3946606.87	a	5043	4.13	NA	NA	NA	34.71	NA	NA		✓		BR	Berm breached
I-12-78	I1210	500368.55	3946339.22	a	5081	1.38	1.75	NA	5.70	6.61	3.99	NA		✓		ND	Natural depression; no berm at claimed location
I-12-80	I1211	511492.53	3943050.70	b	5106	5.17	2.92	NA	9.20	45.50	10.75	NA		✓		LC	Impoundment silted in; well and hand pump located approximately 200 feet downstream
I-12-92	I1212	513926.85	3954413.01	c	5644	1.43	NA	NA	NA	6.89	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-93	I1213	513105.05	3931258.24	a	4942	0.70	0.89	NA	1.60	18.80	0.57	NA		✓		LC, MI	
I-12-97	I1214	500616.85	3934249.73	c	4810	0.92	NA	NA	NA	8.80	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-99	I1215	502599.88	3939551.78	c	4869	0.74	NA	NA	NA	13.20	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-100	I1216	505426.84	3938044.79	c	4918	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-101	I1217	507030.82	3938289.80	c	4935	1.43	NA	NA	NA	11.90	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-102	I1218	510864.50	3941147.42	a	5052	1.03	0.54	0.57	NA	5.40	NA	0.77	✓	✓		LC, MI	Impoundment silted in
I-12-114	I1219	513457.74	3935868.82	c	5022	0.23	NA	NA	NA	0.46	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-122	I1220	505628.80	3934162.76	c	4857	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-133	I1221	505335.96	3953449.92	c	5054	1.61	NA	NA	NA	2.57	NA	NA				NF	Impoundment not found; claimed location is in Dinnebito Wash where stream was flowing
I-12-350	I1222	522398.72	3951469.06	c	5403	4.59	NA	NA	NA	27.55	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-351	I1223	519525.72	3945517.97	c	5300	1.03	NA	NA	NA	4.96	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-352	I1224	519751.72	3945617.97	c	5303	0.52	NA	NA	NA	2.48	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-353	I1225	519311.44	3952433.53	a	5514	0.92	1.51	NA	3.00	5.14	1.81	NA		✓			Impoundment silted in; spills to I1228
I-12-354	I1226	519687.52	3950466.57	b	5446	1.87	NA	2.92	NA	3.73	NA	7.14	✓				Topo map shows berm

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-12-355	I1227	520072.07	3949936.29	b	5443	1.16	NA	9.85	NA	6.51	NA	37.46	✓			NDS	Topo map shows berm; photo analysis suggests berm within natural depression
I-12-356	I1228	519274.36	3952371.80	a	5514	0.60	0.93	NA	3.00	3.37	1.12	NA		✓			Impoundment receives flows from I1225
I-12-357	I1229	519959.76	3954025.06	c	5543	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-359	I1230	517517.79	3953931.04	c	5663	0.57	NA	NA	NA	2.75	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-361	I1231	521212.75	3955725.10	c	5577	0.29	NA	NA	NA	0.92	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-362	I1232	516855.76	3945544.94	c	5300	0.92	NA	NA	NA	8.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-368	I1233	518772.78	3954976.06	c	5663	1.61	NA	NA	NA	7.71	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-388	I1234	516393.74	3940863.89	a	5153	0.57	NA	NA	NA	1.84	NA	NA		✓		BR	Berm breached
I-12-393	I1235	510755.77	3936973.81	c	5303	1.03	NA	NA	NA	5.79	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-394	I1236	517675.65	3928944.77	c	4973	0.52	NA	NA	NA	5.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-397	I1237	520676.67	3937268.88	c	5061	0.92	NA	NA	NA	9.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-399	I1238	516615.91	3941000.46	a	5146	0.92	1.25	NA	6.00	16.10	3.01	NA		✓		ST	Silt trap
I-12-400	I1239	521206.65	3935361.86	c	5111	1.38	NA	NA	NA	6.61	NA	NA				NF	Impoundment not found
I-12-401	I1240	518607.70	3938583.88	c	5080	0.15	NA	NA	NA	0.59	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-402	I1241	520824.68	3939763.91	a	5103	0.18	NA	NA	NA	0.73	NA	NA		✓		BR	Berm breached
I-12-403	I1242	511797.23	3938369.92	b	5293	0.52	0.49	0.47	NA	2.48	NA	0.60	✓	✓		NDS	Photo analysis suggests berm within natural depression
I-12-404	I1243	521386.69	3943403.96	c	5157	0.60	NA	NA	NA	3.13	NA	NA	✓			BR	Photo analysis suggests berm breached
I-12-405	I1244	520776.67	3937201.88	c	5065	0.60	NA	NA	NA	5.20	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-174	I131	542301.53	3935925.89	c	5454	0.73	NA	NA	NA	4.80	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-175	I132	544158.01	3935324.28	a	5408	4.02	5.20	NA	3.60	25.71	7.48	NA		✓		LC	
I-13-176	I133	544968.51	3935416.88	c	5390	0.74	NA	NA	NA	3.57	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-177	I134	544301.56	3935475.18	a	5408	1.84	2.34	NA	4.00	7.35	3.74	NA		✓			Oval, flat-bottomed impoundment downstream of I132
I-13-178	I135	542002.69	3936349.73	b	5462	0.57	NA	0.86	NA	1.15	1.42**	NA	✓			ND	Topo map shows natural depression
I-13-198	I136	542498.53	3936425.89	c	5472	0.92	NA	NA	NA	2.94	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-333	I137	526175.69	3949915.05	c	5273	0.23	NA	NA	NA	1.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-334	I138	530102.82	3948596.20	a	5521	1.16	1.71	NA	3.80	2.32	2.60	NA		✓		ND	Natural depression; no berm at claimed location
I-13-335	I139	528327.70	3953877.74	a	5322	0.92	0.67	NA	3.60	12.40	0.96	NA		✓		MI	18-inch corrugated outlet pipe
I-13-336	I1310	526980.68	3949818.04	a	5264	0.34	NA	NA	NA	1.79	NA	NA		✓		BR	Berm breached
I-13-337	I1311	529599.23	3953632.41	b	5349	1.26	NA	1.00	NA	6.06	NA	1.66	✓				Topo map shows berm
I-13-341	I1312	524632.72	3954747.10	a	5432	3.44	NA	NA	NA	27.52	NA	NA		✓		BR	Berm breached
I-13-348	I1313	524913.66	3941804.95	c	5244	0.65	NA	NA	NA	4.68	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-358	I1314	524563.70	3950188.05	c	5293	0.69	NA	NA	NA	3.86	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-360	I1315	524523.69	3948280.02	c	5227	1.38	NA	NA	NA	6.61	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-363	I1316	533238.62	3943494.97	c	5287	1.21	NA	NA	NA	5.79	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-364	I1317	523777.67	3943032.96	a	5204	8.03	NA	NA	NA	57.82	NA	NA		✓		BR	Berm breached
I-13-365	I1318	524316.87	3944969.11	a	5223	0.23	0.37	NA	0.50	4.40	0.07	NA		✓			
I-13-366	I1319	524474.68	3946672.01	c	5214	1.15	NA	NA	NA	5.51	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-377	I1320	524786.66	3941903.95	c	5244	2.41	NA	NA	NA	17.35	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-379	I1321	522796.16	3935795.71	b	5211	1.16	NA	1.83	NA	7.44	NA	3.79	✓				
I-13-442	I1322	523946.03	3931081.03	b	5023	0.70	NA	0.54	NA	3.66	NA	0.71	✓				
I-13-445	I1323	531398.78	3932284.68	a	5327	0.52	0.64	NA	5.00	2.69	1.28	NA		✓			
I-13-446	I1324	532370.58	3934477.92	b	5225	1.38	NA	0.62	NA	5.51	NA	0.87	✓			LC	Photo analysis suggests berm severely eroded
I-13-447	I1325	531495.60	3937111.90	c	5123	0.52	NA	NA	NA	6.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-448	I1326	529880.63	3940571.21	b	5217	0.52	NA	0.44	NA	9.50	NA	0.55	✓			LC	Photo analysis suggests berm severely eroded

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-13-450	I1327	527774.43	3934956.72	b	5070	0.60	NA	0.22	NA	2.89	NA	0.21	✓				
I-13-452	I1328	525560.63	3936970.89	a	5404	1.84	NA	NA	NA	1.40	NA	NA		✓		UC	Pond under construction and fenced in
I-13-453	I1329	536982.86	3935915.61	b	5392	0.23	NA	0.26	NA	0.92	NA	0.27	✓				Topo map shows berm
I-13-454	I1330	541086.55	3938137.91	c	5461	0.52	NA	NA	NA	2.48	NA	NA	✓			AG, BR	Photo analysis suggests berm breached
I-13-455	I1331	541256.84	3937492.34	a	5469	1.61	2.33	NA	10.40	9.64	9.69	NA		✓			
I-13-456	I1332	534200.11	3941575.47	b	5196	0.92	NA	0.70	NA	9.50	NA	1.02	✓			LC	Photo analysis suggests square berm is degraded but can store water
I-13-457	I1333	540235.57	3941982.96	c	5343	0.92	NA	NA	NA	12.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-458	I1334	541091.52	3938945.10	b	5442	1.81	NA	2.12	NA	8.68	NA	4.62	✓			LC	Photo analysis suggests east end spillway eroded limiting surface area
I-13-459	I1335	525745.06	3936946.52	a	5361	0.77	1.52	NA	10.50	4.34	6.37	NA		✓			
I-13-460	I1336	536655.61	3944839.99	c	5244	0.59	NA	NA	NA	10.40	NA	NA	✓			AG, BR	Photo analysis suggests berm breached
I-13-463	I1337	544860.55	3942592.97	c	5623	0.57	NA	NA	NA	2.98	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-464	I1338	536728.61	3944806.99	c	5243	2.07	NA	NA	NA	11.57	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-465	I1339	537064.49	3946261.69	a	5288	1.72	0.56	NA	0.30	9.64	0.07	NA		✓		LC	
I-13-467	I1340	544572.59	3949401.06	c	5372	0.34	NA	NA	NA	1.65	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-469	I1341	541363.27	3945718.43	b	5343	0.92	NA	0.47	NA	3.67	NA	0.59	✓			LC	Photo analysis suggests berm severely eroded
I-13-470	I1342	540784.63	3954562.11	c	5530	0.23	NA	NA	NA	1.19	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-471	I1343	535891.61	3945635.00	c	5297	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-476	I1344	540025.61	3950455.06	c	5333	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-13-553	I1345	543308.89	3947931.81	a	5355	1.72	3.57	NA	6.00	6.90	8.56	NA		✓		LC	Berm severely eroded
I-14-148	I141	560673.65	3955597.06	c	6048	0.69	NA	NA	NA	3.31	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-149	I142	558485.53	3940397.90	c	5630	0.69	NA	NA	NA	3.86	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-150	I143	559883.54	3941260.91	c	5639	0.69	NA	NA	NA	3.58	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-156	I144	559696.30	3954102.37	b	5983	0.46	NA	0.60	NA	1.47	NA	0.84	✓			LC	Photo analysis suggests berm severely eroded
I-14-157	I145	561451.54	3941116.90	c	5674	0.92	NA	NA	NA	8.00	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-158	I146	563146.25	3941466.21	a	5714	0.23	NA	NA	NA	1.10	NA	NA		✓		BR	Berm breached
I-14-159	I147	561955.53	3940321.89	c	5712	1.29	NA	NA	NA	5.17	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-160	I148	563238.20	3933716.25	b	6142	1.16	NA	1.53	NA	6.97	NA	2.96	✓				
I-14-162	I149	561684.64	3954583.05	c	6072	0.86	NA	NA	NA	4.48	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-163	I1410	562186.64	3953822.04	c	6099	0.92	NA	NA	NA	4.41	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-164	I1411	564762.45	3950078.20	a	5826	1.00	1.69	NA	5.00	5.22	3.39	NA		✓			
I-14-165	I1412	559814.43	3949746.31	a	5869	0.33	0.93	NA	1.50	4.50	0.56	NA		✓		MI	
I-14-166	I1413	558796.61	3950937.02	c	5950	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-167	I1414	557366.60	3949630.01	c	5806	0.34	NA	NA	NA	1.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-168	I1415	558877.63	3953710.05	c	5943	1.38	NA	NA	NA	5.51	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-169	I1416	556620.56	3944566.96	c	5638	0.52	NA	NA	NA	2.69	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-170	I1417	553454.19	3942801.84	b	5562	0.46	NA	1.49	NA	1.65	NA	2.86	✓			NDS	Photo analysis suggests natural depression with internal structure; topo map shows berm
I-14-171	I1418	555671.96	3949181.61	b	5831	0.13	NA	0.25	NA	0.41	NA	0.25	✓				
I-14-172	I1419	565211.52	3941047.11	b	5754	0.36	NA	0.70	NA	2.40	NA	1.03	✓			MI	Photo analysis suggests mulitiple berms
I-14-173	I1420	554098.49	3934839.11	a	5765	0.52	NA	NA	NA	2.27	NA	NA		✓		BR	Berm breached
I-14-179	I1421	547022.50	3932688.84	c	5403	1.61	NA	NA	NA	9.64	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-180	I1422	546389.61	3938148.95	b	5443	0.17	NA	0.14	NA	0.40	0.23**	NA	✓			ND	Photo analysis suggests natural depression
I-14-181	I1423	546520.63	3938445.74	b	5442	0.60	NA	2.27	NA	1.91	NA	5.07	✓			NDS	Photo analysis suggests natural depression with internal structure; topo map shows berm

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Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-14-182	I1424	548180.47	3938534.71	b	5441	0.41	NA	0.35	NA	1.98	NA	0.39	✓			LC	Photo analysis suggests berm severely eroded but able to store water
I-14-183	I1425	554112.29	3934615.44	b	5768	1.26	NA	3.57	NA	7.58	NA	9.39	✓				
I-14-185	I1426	563485.51	3956633.07	b	6503	0.52	NA	0.21	NA	2.07	NA	0.19	✓				
I-14-187	I1427	555748.53	3939137.89	c	5605	0.39	NA	NA	NA	5.30	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-188	I1428	553354.53	3939622.91	c	5525	0.92	NA	NA	NA	7.40	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-189	I1429	553488.55	3941623.13	a	5547	1.43	1.26	NA	9.80	9.18	4.95	NA		✓			Impoundment connected to I1430
I-14-190	I1430	553572.42	3941711.08	a	5547	1.43	1.51	NA	7.90	9.18	4.77	NA		✓			Pump conveys water through pipe into I1429
I-14-191	I1431	552678.54	3942298.58	b	5597	0.34	NA	0.24	NA	1.38	NA	0.23	✓				
I-14-192	I1432	556968.29	3933523.43	b	6066	1.72	NA	3.61	NA	12.40	NA	9.56	✓		✓	LC	Mislocated on claim; new coordinates were provided by Hopi Tribe approx. 1/2 mile northeast of claimed location; impoundment silted in
I-14-193	I1433	564392.28	3935795.80	a	6119	1.38	3.86	NA	18.70	8.82	28.87	NA		✓			
I-14-194	I1434	566408.54	3940852.88	c	5783	0.52	NA	NA	NA	9.50	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-195	I1435	565108.14	3942572.06	b	5759	0.72	NA	0.45	NA	3.73	NA	0.57	✓				
I-14-197	I1436	563559.57	3945290.94	c	5782	0.92	NA	NA	NA	2.94	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-199	I1437	550802.61	3946567.56	b	5613	0.45	NA	0.24	NA	1.98	NA	0.23	✓				
I-14-200	I1438	554389.60	3950997.04	a	5777	0.34	NA	NA	NA	0.96	NA	NA		✓		BR	Berm breached
I-14-203	I1439	552267.59	3948822.02	c	5687	1.43	NA	NA	NA	8.03	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-204	I1440	565532.55	3942964.91	c	5771	1.43	NA	NA	NA	3.44	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-205	I1441	555746.59	3948200.00	c	5751	0.26	NA	NA	NA	0.93	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-444	I1442	556827.64	3956004.08	c	5884	0.43	NA	NA	NA	2.07	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-449	I1443	554953.47	3956198.64	a	5745	1.03	1.16	NA	4.50	5.37	2.09	NA		✓		FC	Berm appears to be flood/erosion control related
I-14-451	I1444	553227.62	3953264.07	c	5683	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-466	I1445	556620.64	3955847.08	c	5862	0.52	NA	NA	NA	2.69	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-472	I1446	548451.58	3948246.03	c	5504	1.15	NA	NA	NA	6.43	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-473	I1447	545949.59	3950761.07	c	5403	1.15	NA	NA	NA	6.43	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-474	I1448	550041.60	3951926.07	c	5530	0.92	NA	NA	NA	5.14	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-475	I1449	551193.61	3952919.07	c	5613	0.34	NA	NA	NA	1.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-14-555	I1450	553880.54	3941778.93	c	5543	0.30 *	NA	NA	NA	1.25	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-40	I151	589346.80	3949582.91	c	6318	0.23	NA	NA	NA	0.92	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-41	I152	589584.76	3945736.85	a	6233	1.15	NA	NA	NA	4.59	NA	NA		✓		BR	Berm breached
I-15-42	I153	589338.15	3954793.85	a	6643	1.55	2.23	NA	3.00	2.48	2.68	NA		✓		ND	Natural depression; no berm at claimed location
I-15-43	I154	589658.82	3950972.93	c	6329	1.43	NA	NA	NA	5.74	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-44	I155	587808.39	3945900.80	b	6200	0.92	NA	3.88	NA	5.14	NA	10.54	✓			LC	Photo analysis suggests berm severely eroded
I-15-45	I156	581904.71	3946982.89	c	6525	1.81	NA	NA	NA	8.68	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-46	I157	589408.81	3950604.93	c	6323	0.38	NA	NA	NA	1.97	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-47	I158	588557.83	3952470.96	c	6439	0.23	NA	NA	NA	1.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-139	I159	569229.51	3942575.40	b	5857	0.92	NA	0.48	NA	5.14	NA	0.61	✓				Photo analysis suggests berm severely eroded
I-15-151	I1510	574303.62	3944453.89	c	6055	0.34	NA	NA	NA	1.38	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-152	I1511	571076.63	3948397.95	c	6036	0.23	NA	NA	NA	1.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-153	I1512	568104.59	3946433.93	c	5908	0.34	NA	NA	NA	1.79	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-154	I1513	568123.59	3946255.93	c	5904	0.33	NA	NA	NA	3.10	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-155	I1514	570866.58	3942883.88	c	5934	0.34	NA	NA	NA	1.38	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-161	I1515	582709.98	3955661.30	b	6663	0.34	NA	0.19	NA	1.79	NA	0.18	✓				
I-15-184	I1516	572674.63	3946602.92	a	6002	1.72	NA	NA	NA	10.33	NA	NA		✓		BR	Berm breached

TABLE C-1. INVENTORY OF CLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA (acres)			ADWR SPILLWAY CREST HEIGHT (feet)[4]	IMPOUNDMENT STORAGE CAPACITY[5] (acre-feet)			ADWR CLAIM VERIFICATION			SPECIAL CONDITIONS[8]	NOTES
Hopi	United States	Easting	Northing	Location Source Code[1]		Claimed	ADWR Field Measurement	ADWR Photo Analysis[3]		Claimed	From ADWR Field Measurements[6]	From ADWR Regression Analysis[7]	Photo Analysis	Field Visit	Supporting Evidence from Hopi		
I-15-186	I1517	583728.76	3950360.94	c	6604	1.61	NA	NA	NA	9.00	NA	NA	✓			BR	Photo analysis suggests berm breached
I-15-196	I1518	584712.27	3952870.98	b	6670	1.03	NA	0.67	NA	2.89	NA	0.96	✓				Photo analysis suggests small (~130 ft long) berm degraded on east side
I-15-201	I1519	573191.75	3939410.04	a	5897	1.43	NA	NA	NA	10.50	NA	NA		✓		BR	Berm breached
I-15-202	I1520	578036.97	3939394.74	b	5994	0.39	NA	1.12	NA	1.68	NA	1.95	✓			LC	Photo analysis suggests berm severely eroded
I-15-206	I1521	577038.40	3942285.08	b	6094	0.33	NA	6.27	NA	5.90	NA	20.27	✓				

Notes:

[1] a = Location based on ADWR field inspection, referenced to the North American Datum of 1983 (NAD 83)
b = Location based on ADWR photo analysis (NAD 83)
c = Claimed coordinates reprojected to NAD 83

[2] Based on the USGS digital elevation model (DEM)

[3] Photo analysis based on color (2005) and black and white (1997) Digital Orthophoto Quads (DOQ) of 1 meter resolution

(*) Surface area claimed by the Hopi Tribe; surface area was not claimed by the United States or a value of '0' was listed

[4] For impoundments, "height" means the vertical distance from the lowest point on the outside of the berm to the spillway crest or berm crest if no spillway present. For natural depressions, "height" is the maximum depth below ground surface.

[5] "Storage Capacity" means the maximum volume of water that can be stored by the impoundment or natural depression when there is no discharge of water and regardless of the potential loss in storage due to siltation.

[6] For field measured impoundments, storage capacity is calculated based on the following formula used by HKM (2007), a consultant to the Hopi Tribe: Surface Area (in acres) x Height (in feet) x 0.4
For natural depressions (**), either field measured or identified in the office by photo analysis, storage capacity is based on the formula (Surface Area x Depth x 0.4); an average depth of 4.125 ft was assumed based on 4 field measurements

[7] Estimated using the regression equation $Y=1.66X^{(1.36)}$ (R=0.793, p=<0.0001), where Y = Impoundment Storage Capacity (af) and X = Impoundment Surface Area (ac) delineated from photo analysis

[8] AG=Impoundment intersects agricultural field identified by ADWR in 2005
BR=Berm is or appears to be breached
FC=Berm appears flood and/or erosion control related
LC=Impoundment has limited storage due to siltation and/or berm is severely eroded
MI=Two or more impoundments at site
ND=Impoundment formed by natural depression (topographic low) without berm
NDS=Impoundment formed by berm within a natural depression (topographic low)
NF=Impoundment not found at claimed location
PA=Impoundment not visited due to poor field access
PL=Located on Peabody Western Coal Company (PWCC) leasehold
PS=Temporary (2006-2010) PWCC sediment pond
RC=Claimed recreational use
ST=Silt trap above impoundment; storage capacity associated with silt trap is not reflected in ADWR storage estimates

TABLE C-2. INVENTORY OF UNCLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

ADWR ID NO.	LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA FROM ADWR FIELD VISIT (acres)	SURFACE AREA FROM ADWR PHOTO ANALYSIS[3] (acres)	IMPOUNDMENT STORAGE CAPACITY[4] FROM ADWR REGRESSION ANALYSIS[5] (acre-feet)	EVIDENCE OF IMPOUNDMENT		SPECIAL CONDITIONS[6]	NOTES
	Easting	Northing	Location Source Code[1]					ADWR Photo Analysis	ADWR Field Visit		
UNC-D-01	550727.6469	4008843.149	b	6,324	NA	NA	NA	√		BR	Referred to as 'Big Mountain Dam'; photo analysis suggests berm breached
UNC-D-02	534124.6736	3989470.415	b	5,942	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-03	518167.0392	3978200.697	b	5,635	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-04	517167.484	3977083.355	b	5,642	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-05	522499.9396	3970744.28	b	5,806	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-06	513883.3831	3966171.539	b	5,441	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-07	507942.0458	3964311.465	b	5,435	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-08	507099.3879	3954814.114	b	5,435	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-D-09	554296.1257	4019485.722	b	6,737	NA	0.17	0.15	√			Topo map shows pond
UNC-D-10	549792.9594	4015822.263	b	6,659	NA	0.22	0.21	√		AG	Topo map shows pond
UNC-D-11	551631.6452	4006483.453	b	6,264	NA	0.07	0.04	√			Topo map shows pond
UNC-D-12	537120.5901	3986786.97	b	5,999	NA	0.08	0.05	√			
UNC-D-13	515397.5363	3981798.513	b	5,911	NA	0.10	0.07	√			Topo map shows pond
UNC-D-14	520299.3238	3980497.897	b	5,682	NA	0.37	0.43	√			
UNC-D-15	518117.4744	3978127.606	b	5,635	NA	0.14	0.11	√			Topo map shows pond
UNC-D-16	518133.0106	3978077.985	b	5,634	NA	0.11	0.08	√			Topo map shows pond
UNC-D-17	510502.2659	3968460.872	b	5,507	NA	2.24	4.96	√		FC	Topo map shows a check dam
UNC-D-18	521070.7786	3967345.673	b	5,833	NA	0.16	0.14	√		AG	Topo map shows a well near impoundment
UNC-D-19	505953.092	3965825.184	b	5,591	NA	0.10	0.07	√			Topo map shows pond
UNC-D-20	511677.007	3961347.396	b	5,391	NA	0.21	0.20	√			Topo map shows pond
UNC-D-21	514924.8245	3957736.681	b	5,661	NA	0.17	0.15	√			
UNC-D-22	511706.8433	3957131.005	b	5,489	NA	1.87	3.89	√			
UNC-D-23	515060.1071	3957010.384	b	5,714	NA	0.09	0.06	√			Topo map shows pond
UNC-D-24	499725.4051	3948206.629	b	5,146	NA	1.46	2.79	√		FC	Topo map shows a check dam
UNC-D-25	499743.447	3948060.112	b	5,136	NA	0.90	1.44	√		FC	Topo map shows a check dam
UNC-D-26	510878.7342	3941209.617	a	5,054	0.57	0.64	0.90	√	√		Near claimed impoundment I-12-102
UNC-J-01	587155.246	3957232.202	b	6,713	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-02	561333.3865	3955750.071	b	6,085	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-03	560983.0979	3954010.562	b	6,035	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-04	559743.8824	3953964.701	b	5,983	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-05	565010.2071	3946906.927	b	5,796	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-06	572080.2454	3945079.205	b	5,959	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-07	565636.3844	3944558.984	b	5,790	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-08	547334.5428	3944032.196	b	5,609	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-09	562379.1538	3941405.517	b	5,696	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-J-10	589548.0244	3967617.826	a	6,805	NA	0.42	0.51	√	√	LC, MI	Near claimed impoundment I-11-143
UNC-J-11	589644.6606	3967498.53	a	6,805	NA	0.97	1.60	√	√	LC, MI	Near claimed impoundment I-11-143
UNC-J-12	589400.8852	3965394.459	b	6,794	NA	0.07	0.04	√		AG	Topo map shows pond
UNC-J-13	576345.8737	3962501.933	b	6,533	NA	0.16	0.13	√			Topo map shows pond
UNC-J-14	568376.9093	3956885.623	b	6,521	NA	0.25	0.25	√		AG	

TABLE C-2. INVENTORY OF UNCLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

ADWR ID NO.	LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA FROM ADWR FIELD VISIT (acres)	SURFACE AREA FROM ADWR PHOTO ANALYSIS[3] (acres)	IMPOUNDMENT STORAGE CAPACITY[4] FROM ADWR REGRESSION ANALYSIS[5] (acre-feet)	EVIDENCE OF IMPOUNDMENT		SPECIAL CONDITIONS[6]	NOTES
	Easting	Northing	Location Source Code[1]					ADWR Photo Analysis	ADWR Field Visit		
UNC-J-15	587287.0696	3955738.922	b	6,723	NA	0.05	0.03	√			
UNC-J-16	559946.4792	3955214.233	b	6,024	NA	0.16	0.14	√			Topo map shows pond
UNC-J-17	556375.0672	3951737.118	b	5,840	NA	0.11	0.08	√			Topo map shows pond
UNC-J-18	563540.0677	3950482.313	b	5,856	NA	0.85	1.33	√			
UNC-J-19	562652.9204	3949045.611	b	5,784	NA	0.07	0.04	√			
UNC-J-20	559618.1307	3948663.883	b	5,797	NA	0.26	0.27	√		AG	Topo map shows pond
UNC-J-21	566435.1611	3947765.551	b	5,903	NA	0.18	0.16	√			
UNC-J-22	559362.4665	3947151.261	b	5,713	NA	0.16	0.13	√		AG	Topo map shows pond
UNC-J-23	575435.3963	3945692.493	b	6,109	NA	0.17	0.15	√		AG	Topo map shows pond
UNC-J-24	569588.5832	3943706.18	b	5,884	NA	0.15	0.12	√			Topo map shows pond
UNC-J-25	555554.1011	3943076.902	b	5,601	NA	0.09	0.06	√			
UNC-J-26	557158.7363	3940186.098	b	5,600	NA	0.57	0.77	√			
UNC-J-27	552587.7185	3940177.472	b	5,529	NA	0.56	0.75	√			
UNC-J-28	541269.6181	3931667.743	b	5,301	NA	0.23	0.22	√			
UNC-M-01	534506.8419	4025077.07	b	6,306	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-02	554362.1946	4025053.932	b	6,526	NA	NA	NA	√		BR	Photo analysis suggests berm breached; topo map shows pond
UNC-M-03	505119.9994	4012619.29	b	5,405	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-04	504936.968	4012531.109	b	5,397	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-05	504112.4976	4012016.671	b	5,374	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-06	501537.0972	4010224.969	b	5,267	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-07	512693.2386	4005963.64	b	5,244	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-08	512533.5844	4005445.378	b	5,226	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-09	481090.4605	3998185.153	b	4,847	NA	NA	NA	√		BR	Photo analysis suggests berm breached; topo map shows pond
UNC-M-10	511900.1937	3989096.389	b	5,563	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-11	508666.4384	3988847.294	b	5,627	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-M-12	486030.0856	3987970.288	b	5,423	NA	NA	NA	√		AG, BR	Photo analysis suggests berm breached
UNC-M-13	502382.6468	3969385.582	b	5,744	NA	NA	NA	√		BR	Topo map shows pond
UNC-M-14	560912.4607	4030834.078	b	6,939	NA	2.55	5.95	√		PL	
UNC-M-15	556031.3137	4029684.415	a	6,527	0.01	0.17	0.15	√	√	MI, PL	Near claimed impoundment I-3-210
UNC-M-16	560786.9832	4028366.378	b	6,877	NA	0.31	0.34	√		PL	
UNC-M-17	552201.8384	4027735.34	b	6,345	NA	0.69	1.00	√		PL	
UNC-M-18	560235.3597	4027035.405	b	6,852	NA	0.32	0.36	√			
UNC-M-19	553254.7005	4026713.489	b	6,479	NA	0.52	0.69	√			
UNC-M-20	524504.4014	4017803.415	b	6,221	NA	2.43	5.56	√			
UNC-M-21	522326.903	4017620.98	b	6,320	NA	0.42	0.50	√			
UNC-M-22	539152.9247	4016444.315	b	6,387	NA	0.11	0.08	√			Topo map shows pond
UNC-M-23	503786.8232	4013970.335	a	5,370	0.44	0.54	0.72	√	√	MI	Near claimed impoundment I-1-18
UNC-M-24	508198.7078	4011981.264	b	5,591	NA	1.29	2.35	√			
UNC-M-25	503286.806	4011014.967	b	5,345	NA	8.34	29.84	√			
UNC-M-26	506798.7031	4007310.136	b	5,506	NA	0.05	0.03	√			

TABLE C-2. INVENTORY OF UNCLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

ADWR ID NO.	LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA FROM ADWR FIELD VISIT (acres)	SURFACE AREA FROM ADWR PHOTO ANALYSIS[3] (acres)	IMPOUNDMENT STORAGE CAPACITY[4] FROM ADWR REGRESSION ANALYSIS[5] (acre-feet)	EVIDENCE OF IMPOUNDMENT		SPECIAL CONDITIONS[6]	NOTES
	Easting	Northing	Location Source Code[1]					ADWR Photo Analysis	ADWR Field Visit		
UNC-M-27	511656.8038	4005180.785	b	5,221	NA	0.99	1.64	√			
UNC-M-28	527690.8072	4001594.46	b	5,842	NA	0.10	0.07	√			
UNC-M-29	523717.1842	4001325.418	b	5,703	NA	0.06	0.04	√		AG	
UNC-M-30	523739.7446	4001308.013	b	5,705	NA	0.05	0.03	√		AG	
UNC-M-31	530379.3081	4000147.034	b	5,982	NA	0.13	0.10	√			
UNC-M-32	526185.2963	3999961.851	b	5,835	NA	0.05	0.03	√			
UNC-M-33	480756.2502	3999545.879	b	4,885	NA	33.98	202.12	√	√	AG, RC	Referred to as 'Pasture Canyon Reservoir'
UNC-M-34	514873.6846	3997266.595	b	5,643	NA	0.07	0.05	√		AG	
UNC-M-35	508411.7513	3997190.669	b	5,461	NA	0.03	0.01	√			Topo map shows pond
UNC-M-36	508434.8577	3997155.292	b	5,461	NA	0.02	0.01	√			
UNC-M-37	480705.5663	3996843.724	b	4,809	NA	12.35	50.91	√	√		Referred to as 'Lower Lagoon Reservoir'
UNC-M-38	528639.9395	3994891.02	b	6,073	NA	0.12	0.10	√			Topo map shows pond
UNC-M-39	475822.2875	3994847.359	b	4,573	NA	0.53	0.70	√			
UNC-M-40	511902.6815	3993993.258	b	5,600	NA	0.10	0.07	√			Topo map shows pond
UNC-M-41	503714.9265	3992568.712	b	5,487	NA	0.07	0.05	√			Topo map shows pond
UNC-M-42	517726.8038	3992488.338	b	5,890	NA	0.11	0.08	√			
UNC-M-43	500634.2668	3991975.428	b	5,102	NA	0.63	0.88	√		LC, ST	Photo analysis suggests silt trap breached
UNC-M-44	528976.4067	3991026.272	b	6,115	NA	0.21	0.20	√		AG	
UNC-M-45	525858.1107	3989577.234	b	6,024	NA	0.04	0.02	√			
UNC-M-46	485903.311	3987429.042	b	5,395	NA	0.53	0.70	√			
UNC-M-47	516753.8828	3982895.381	b	5,858	NA	0.06	0.03	√			Topo map shows pond
UNC-M-48	502306.7485	3979431.419	b	6,065	NA	0.03	0.02	√			
UNC-M-49	507687.2884	3976724.686	b	5,956	NA	0.07	0.04	√			
UNC-M-50	507703.3873	3976690.482	b	5,958	NA	0.14	0.12	√			Topo map shows pond
UNC-M-51	552791.2685	4028892.366	b	6261	NA	1.09 [7]	1.86	√		PL, PS	PWCC sediment pond WW-9C
UNC-M-52	553570.8511	4028751.377	b	6291	NA	1.11 [7]	1.92	√		PL, PS	PWCC sediment pond J7-R1
UNC-M-53	553674.7989	4028612.069	b	6313	NA	1.68 [7]	3.37	√		PL, PP	PWCC sediment pond J7-R
UNC-M-54	553959.7943	4028583.808	b	6315	NA	1.05 [7]	1.78	√		PL, PS	PWCC sediment pond J7-S
UNC-M-55	554223.8971	4028574.606	b	6331	NA	1.46 [7]	2.79	√		PL, PS	PWCC sediment pond J7-T
UNC-M-56	554494.2202	4028660.349	b	6351	NA	0.48 [7]	0.6	√		PL, PS	PWCC sediment pond J7-U
UNC-M-57	554694.4383	4028737.777	b	6357	NA	1.41 [7]	2.65	√		PL, PS	PWCC sediment pond J7-V
UNC-O-01	547291.4993	3989030.209	b	5,878	NA	NA	NA	√		AG, BR	Photo analysis suggests berm breached
UNC-O-02	547446.1949	3987019.202	b	5,864	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-03	544417.0539	3985578.303	b	5,844	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-04	548088.4286	3985444.936	b	5,871	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-05	542578.2249	3983754.906	b	5,819	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-06	542621.112	3983249.291	b	5,797	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-07	543740.6215	3971316.344	b	6,145	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-08	534561.1604	3968338.313	b	5,564	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-09	525329.66	3963623.772	b	5,666	NA	NA	NA	√		BR	Photo analysis suggests berm breached

TABLE C-2. INVENTORY OF UNCLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

ADWR ID NO.	LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA FROM ADWR FIELD VISIT (acres)	SURFACE AREA FROM ADWR PHOTO ANALYSIS[3] (acres)	IMPOUNDMENT STORAGE CAPACITY[4] FROM ADWR REGRESSION ANALYSIS[5] (acre-feet)	EVIDENCE OF IMPOUNDMENT		SPECIAL CONDITIONS[6]	NOTES
	Easting	Northing	Location Source Code[1]					ADWR Photo Analysis	ADWR Field Visit		
UNC-O-10	528909.6175	3959155.702	b	5,439	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-11	522109.1854	3954581.899	b	5,543	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-12	522447.5143	3954376.204	b	5,516	NA	NA	NA	√		AG, BR	Photo analysis suggests berm breached
UNC-O-13	522123.717	3945804.367	b	5,199	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-14	521314.582	3944097.304	b	5,164	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-O-15	550490.648	3992817.755	b	5,942	NA	0.21	0.20	√		AG	Topo map shows pond
UNC-O-16	545290.6084	3989325.44	b	5,939	NA	1.08	1.85	√			
UNC-O-17	548702.6761	3987546.901	b	5,944	NA	0.13	0.10	√			
UNC-O-18	548950.5862	3985472.693	b	5,889	NA	0.98	1.61	√			Topo map shows pond
UNC-O-19	548494.3771	3984078.458	b	5,930	NA	0.23	0.22	√			
UNC-O-20	536641.6079	3982319.639	b	6,113	NA	0.16	0.13	√			Topo map shows pond
UNC-O-21	546919.4169	3980030.909	b	6,108	NA	0.28	0.29	√			
UNC-O-22	548147.2131	3979348.207	b	6,186	NA	0.02	0.01	√			
UNC-O-23	542909.8219	3978555.018	b	5,796	NA	0.35	0.40	√			
UNC-O-24	533555.1934	3970632.265	b	5,718	NA	0.85	1.33	√			Topo map shows pond
UNC-O-25	527602.6273	3958207.431	b	5,459	NA	0.26	0.26	√			
UNC-O-26	522726.2871	3955754.256	b	5,520	NA	0.11	0.08	√			Topo map shows pond
UNC-O-27	531446.8717	3953321.89	b	5,437	NA	0.26	0.26	√		AG	Topo map shows pond
UNC-O-28	527633.6478	3950746.036	b	5,271	NA	0.09	0.06	√			Topo map shows pond
UNC-O-29	518171.8416	3950025.768	b	5,478	NA	0.04	0.02	√			
UNC-O-30	523129.9372	3947916.22	b	5,260	NA	0.21	0.20	√		AG	Topo map shows pond
UNC-O-31	524292.7526	3944909.902	a	5,223	0.38	0.46	0.57	√	√	AG	Near claimed impoundment I-13-365
UNC-O-32	524276.7233	3944880.105	a	5,223	0.97	1.26	2.27	√	√	AG	Near claimed impoundment I-13-365
UNC-O-33	522847.3137	3943196.119	b	5,171	NA	0.98	1.61	√			
UNC-P-01	566823.1345	3983982.502	b	6,209	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-02	578845.5472	3978377.053	b	6,168	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-03	565442.6597	3972799.17	b	5,826	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-04	566926.8681	3965203.956	b	5,983	NA	NA	NA	√		BR	Photo analysis suggests berm breached; topo map shows pond
UNC-P-05	554498.6688	3962791.373	b	5,578	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-06	547313.7714	3959620.516	b	5,588	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-07	539128.6157	3958268.535	b	5,693	NA	NA	NA	√		AG, BR	Photo analysis suggests berm breached
UNC-P-08	549712.4529	3956599.205	b	5,498	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-09	548696.6058	3955353.137	b	5,478	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-10	543165.5422	3953670.336	b	5,445	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-11	535480.0384	3951544.621	b	5,487	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-12	529851.8745	3940892.922	b	5,228	NA	NA	NA	√		AG, BR	Photo analysis suggests berm breached
UNC-P-13	532210.9586	3938451.354	b	5,143	NA	NA	NA	√		BR	Photo analysis suggests berm breached
UNC-P-14	557351.2769	3986494.235	b	6,168	NA	0.05	0.03	√			Topo map shows pond
UNC-P-15	559972.1741	3980144.169	b	5,949	NA	0.20	0.19	√			Topo map shows pond
UNC-P-16	574678.3049	3979304.472	b	5,986	NA	0.33	0.37	√			

TABLE C-2. INVENTORY OF UNCLAIMED IMPOUNDMENTS ON THE HOPI INDIAN RESERVATION

ADWR ID NO.	LOCATION			APPROXIMATE ELEVATION (feet)[2]	SURFACE AREA FROM ADWR FIELD VISIT (acres)	SURFACE AREA FROM ADWR PHOTO ANALYSIS[3] (acres)	IMPOUNDMENT STORAGE CAPACITY[4] FROM ADWR REGRESSION ANALYSIS[5] (acre-feet)	EVIDENCE OF IMPOUNDMENT		SPECIAL CONDITIONS[6]	NOTES
	Easting	Northing	Location Source Code[1]					ADWR Photo Analysis	ADWR Field Visit		
UNC-P-17	564977.6602	3978297.216	b	6,186	NA	0.13	0.10	√		AG	Topo map shows pond
UNC-P-18	556576.8774	3977908.408	b	5,950	NA	0.07	0.04	√		AG	Topo map shows pond
UNC-P-19	575438.3519	3975103.105	b	6,114	NA	0.11	0.08	√			Topo map shows pond
UNC-P-20	567930.7012	3974641.9	b	5,865	NA	0.35	0.39	√			Topo map shows pond
UNC-P-21	547150.4003	3973765.71	b	6,132	NA	0.12	0.09	√			
UNC-P-22	547227.827	3973736.743	b	6,125	NA	0.10	0.07	√		AG	Topo map shows pond
UNC-P-23	571228.4277	3969273.657	b	6,361	NA	0.14	0.12	√		AG	
UNC-P-24	570018.4041	3968343.568	b	6,370	NA	0.21	0.20	√		AG	
UNC-P-25	570792.0049	3968333.58	b	6,340	NA	0.56	0.75	√			
UNC-P-26	554174.6998	3966787.679	b	5,768	NA	1.49	2.85	√			
UNC-P-27	575439.2895	3963717.757	a	6,439	0.47	NA	0.77 *	√	√	ND	Photo analysis suggests natural depression; no berm observed during field visit
UNC-P-28	560116.7668	3962000.562	b	5,824	NA	0.08	0.05	√		AG	Topo map shows well near impoundment
UNC-P-29	560610.0902	3959876.219	b	5,943	NA	0.64	0.91	√			
UNC-P-30	554580.6136	3956283.503	b	5,726	NA	0.29	0.31	√			Topo map shows pond
UNC-P-31	539617.7688	3955907.424	b	5,606	NA	0.19	0.17	√			
UNC-P-32	544836.0479	3949576.995	b	5,375	NA	0.20	0.18	√			Topo map shows pond
UNC-P-33	543187.2841	3948051.085	b	5,354	NA	0.14	0.12	√		AG	Topo map shows pond
UNC-P-34	543204.6977	3948011.576	b	5,354	NA	0.06	0.03	√		AG	Topo map shows pond
UNC-P-35	536216.8664	3942194.518	b	5,205	NA	0.18	0.16	√		AG	Topo map shows pond
UNC-P-36	533904.7617	3939801.072	b	5,171	NA	0.25	0.25	√			Topo map shows pond

NOTES:

[1] a = Location based on ADWR field inspection, referenced to North American Datum of 1983 (NAD 83)
b = Location based on ADWR photo analysis (NAD 83)

[2] Based on the USGS digital elevation model (DEM)

[3] Photo analysis based on color (2005) and black and white (1997) Digital Orthophoto Quads (DOQ) of 1 meter resolution

[4] "Storage Capacity" means the maximum volume of water that can be stored by the impoundment or natural depression when there is no discharge of water and regardless of the potential loss in storage due to siltation.
For natural depressions (*) identified in the office by photo analysis, storage capacity is based on the HKM (2007) formula (Surface Area x Depth x 0.4); an average depth of 4.125 ft was assumed based on 4 field measurements

[5] Estimated using the regression equation $Y=1.66X^{(1.36)}$ (R^2=0.63, p=<0.0001), where Y = Impoundment Storage Capacity (af) and X = Impoundment Surface Area (ac) delineated from photo analysis

[6] AG=Impoundment appears to intersect agricultural field identified by ADWR in 2005
BR=Berm appears to be breached
FC=Berm appears to be flood and/or erosion control related
LC=Impoundment has limited storage due to siltation
MI=Two or more impoundments at site
PL = Located on Peabody Western Coal Company (PWCC) leasehold
PP = Permanent PWCC sediment pond
PS = Temporary (2006-2010) PWCC sediment pond
RC=Reported recreational use
ST=Silt trap above impoundment; storage capacity associated with silt trap is not reflected in this table.

[7] Surface area from PWCC (2006).

Figures

Figure C-1. Pasture Canyon Reservoir (unclaimed) near Moenkopi

Figure C-2. Keams Lake (Hopi ID No. I-11-431) near Keams Canyon

Figure C-3. Claimed Impoundment (Hopi ID No. I-11-417) near Keams Canyon

Figure C-4. Claimed Impoundment (Hopi ID No. I-13-445) near Tovar Mesa

Figure C-5. Claimed Impoundment (Hopi ID No. I-14-164) near Star Mountain

Figure C-6. Natural Depression (Hopi ID No. I-13-334) near Burro Spring

Figure C-7. Siltation in Claimed Impoundment (Hopi ID No. I-5-248) near Burro Spring

Figure C-8. Twin Dam No. 1 (Hopi ID No. I-11-415) near Keams Canyon

Figure C-9. Twin Dam No. 2 (Hopi ID No. I-11-407) near Keams Canyon

Figure C-10. Breached Berm at Claimed Impoundment (Hopi ID No. I-5-247) near Bat Spring

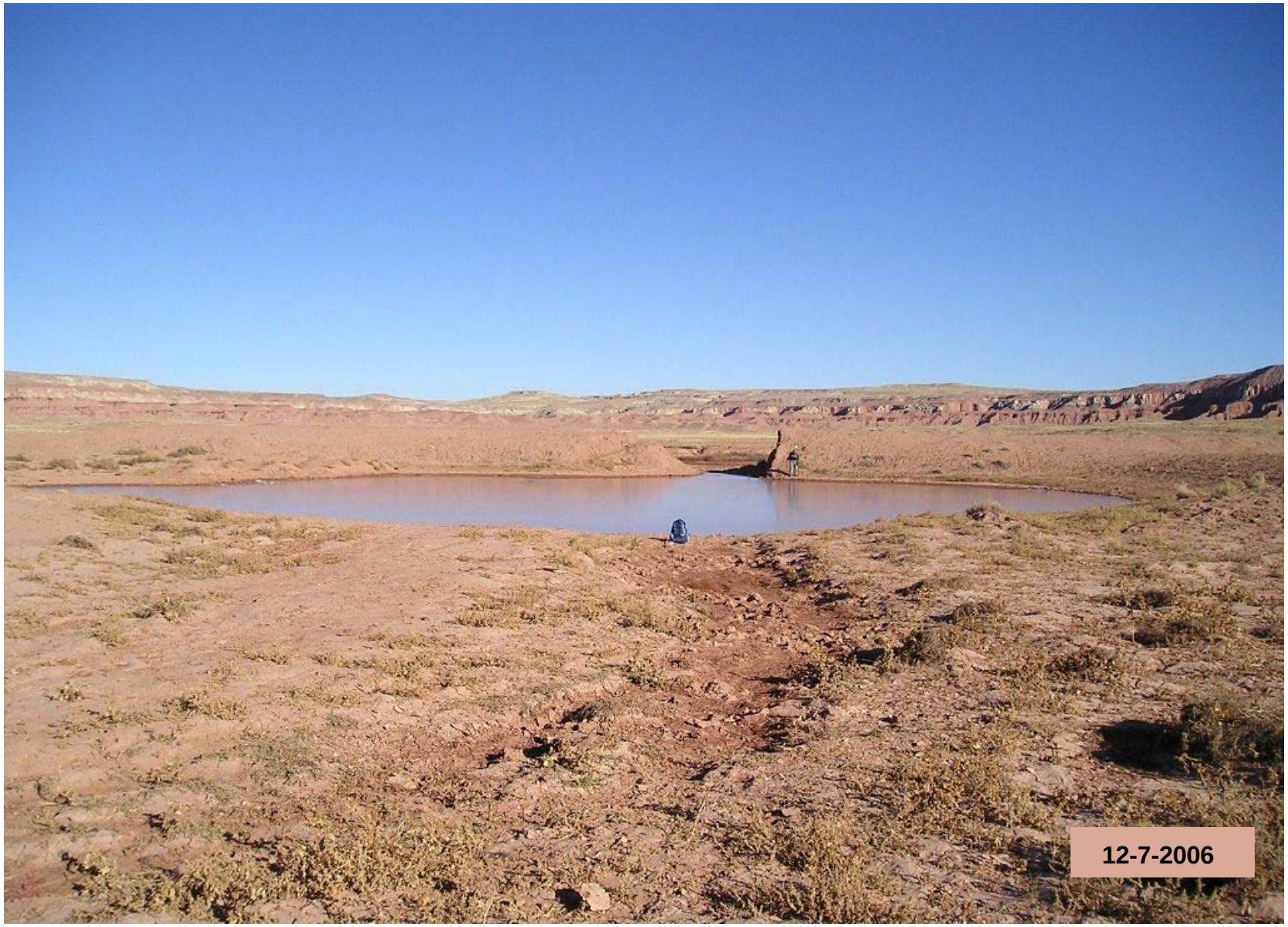

Figure C-11. Breached Berm at Claimed Impoundment (Hopi ID No. I-13-365) near Burro Spring

Figure C-12. Lake Maho (Hopi ID No. I-11-408) near Keams Canyon

Figure C-13. Claimed Impoundment (Hopi ID No. I-3-210) on PWCC Leasehold (PWCC Sediment Pond J7-E)

APPENDIX D

Text

APPENDIX D: HOPI SPRING INVENTORY

D.1 INTRODUCTION

In its role as technical advisor to the Little Colorado River (LCR) Adjudication Court, the Arizona Department of Water Resources (ADWR) is currently preparing a preliminary Hydrographic Survey Report for the Hopi Indian Reservation (Preliminary Hopi HSR). As requested by the Court, ADWR is verifying Hopi water right claims in the HSR, including the claims to 360 springs. This document presents an inventory of springs on the Reservation and ADWR's verification of the spring claims. This information supplements **Tables 7-8** and **7-9**, which are presented in **Chapter 7**.

Two tables are provided here. **Table D-1** lists data for springs claimed by the Hopi Tribe and the United States on the Tribe's behalf. **Table D-2** lists data for other springs that ADWR identified on or near the Reservation that were not claimed in the adjudication. The remainder of this document explains the content of the two tables and describes the data sources that ADWR reviewed. Also provided is a brief analysis of the tabulated data including information on spring sources, discharge rates, water quality, and water uses. Photographs of several Hopi springs are presented in **Figures D-1** through **D-13**.

D.2 INVENTORY OF CLAIMED SPRINGS

Four documents provide information on Hopi spring claims:

- *The Hopi Tribe's Amended Statement of Claimant*, filed with the Court on January 29, 2004;
- *United States' Amended Statement of Claimant on Behalf of the Hopi Tribe*, filed with the Court on January 29, 2004;
- *Hopi Indian Reservation Spring, Well and Impoundment Inventory*, a compact disk (CD) prepared by a United States' consultant and sent to ADWR in April 2005 (NRCE, 2005); and

- *Little Colorado River-Hopi Reservation Well, Spring, and Impoundment Verification Information for ADWR*, a letter report and CD prepared by a United States consultant and sent to ADWR via the Hopi in June 2008 (NRCE, 2008).

Both of the statements of claimants (SOCs) filed in January 2004 list 338 springs on the Reservation. The CD that was sent to ADWR in April 2005 listed the originally claimed springs plus 22 previously unclaimed springs, for a total of 360 springs. The June 2008 letter report and CD provided additional information for some of the claimed springs that ADWR did not originally verify. For purposes of the Preliminary Hopi HSR, ADWR considered all of the 360 springs identified by the Hopi and United States as claimed springs.

Table D-1 compiles data that ADWR collected related to the Hopi spring claims. The table has a total of 25 columns. Each column, from left to right in the table, is described below.

Claim No. – Each claimed spring was given a unique identification number by the Hopi Tribe and a different, unique identification number by the United States.

Claim Name – The SOCs and CD provide names and/or alternative identification numbers for many, but not all of the springs. As noted in the table, the names for some springs appear to be incorrect.

Other Names – ADWR identified other, different names for some springs based on various sources including published and unpublished reports. The sources reviewed by ADWR are listed in table footnote 1.

Public Water Supply (PWS) ID – Identifies the PWS for which the spring provides water.

Location – Spring locations are provided in Universal Transverse Mercator (UTM) "Easting" and "Northing" coordinates.

Location Source Code – Spring locations were available from two data sources listed in table footnote 2. These sources include ADWR field Global Positioning System (GPS) readings referenced to the North America Datum of 1983 (NAD83); and claimed spring locations referenced to NAD27. If available, ADWR GPS readings are presented in the

table. If ADWR did not visit and locate a spring site, the location that was claimed is presented in the table. See ***ADWR Verification of Spring Claims*** discussed below.

Approximate Elevation – Spring elevations were estimated, in feet above mean sea level, using the UTM coordinates listed in the table and digital elevation model (DEM) data provided by the USGS.

Discharge Data – The next 2 columns in the table present spring discharge data:

> ***No. of discharge measurements*** – Number of unique discharge measurements that ADWR identified through review of the data sources listed in table footnote 3; and
>
> ***Range of discharge measurements*** **–** Where multiple discharge measurements have been made, the low and high values are presented in gallons per minute (gpm). Otherwise, single values are shown, or the column is left blank where no measurements have been made. Note that a discharge of 0 gpm is assumed at springs found to be dry. A discharge of <0.01 gpm is assumed at spring sites where seeps were reported, or where only standing water, damp soil, or indicator vegetation were noted. For the purpose of totaling spring discharge by aquifer type discussed below, flows reported as less than (<) a specified amount are assumed in this report to equal 0 gpm.

Claimed Quantity – The quantity of spring water, in gpm, listed in the claims and on the CD.

Water Bearing Strata – Geologic unit or aquifer system supplying water to the spring. Six unique water bearing strata have been identified that supply springs on the Reservation. These strata include, from youngest to oldest, Alluvial Aquifer, Colluvial Aquifer, Spring Deposits, Mesa Verde Group, D Aquifer, and N Aquifer. Water bearing strata were specified for several, but not all, claimed springs in a set of well and spring inventory reports published during the 1960s (1960s reports).

Water Quality Data – This column indicates whether water quality data are available for the spring. Data sources are listed in table footnote 4.

Water Quality Exceedences – If water quality data were available, it was compared to EPA primary and secondary drinking water standards and livestock watering standards from four sources (Arizona Department of Environmental Quality, the Hopi Tribe, the

Navajo Nation, and the National Academy of Sciences). Parameters that were found to exceed drinking water and livestock watering standards are noted in separate columns in the table. Abbreviations used in the table to designate parameter exceedences are defined in table footnote 4.

ADWR Verification of Spring Claims – The next four columns indicate how, and if, ADWR verified the Hopi spring claims:

> ***Topo map*** – Claimed spring locations were compared to USGS topographic maps which show the location of some springs. If a claimed spring appeared on a topographic map, it was noted by a check in the table;
>
> ***Published reports*** – Names and locations for claimed springs were cross referenced to published reports listed in table footnote 1. If a claimed spring was listed or shown in a published report, it was noted by a check in the table;
>
> ***Field visit*** – In 2006, ADWR attempted to inspect several springs on the Reservation, focusing on those springs that were not verified on topographic maps or through published reports. If ADWR actually found a spring in the field, it was noted by a check in the table (table footnote 5); and
>
> ***Supporting Evidence from Hopi*** – In June 2007, ADWR requested information for several claimed springs which, at that time, it could not verify. A response to this request was received in June 2008 and additional information was incorporated, as appropriate.

Improvements – Spring improvements, such as pump installations and water storage and distribution features, are also noted in the table. This information was either found in published and unpublished reports or collected during ADWR's 2006 spring inspections. Data sources and abbreviations used in the table to designate spring improvements are listed in table footnote 6.

Spring Use – Claimed and other documented spring uses are listed in the next two columns. Uses include domestic, stock, municipal (public water supply), ceremonial/cultural, and irrigation. Abbreviations used in the table to designate spring use are defined in table footnote 7. Claimed spring uses were indicated in the U.S. SOC and on the CD. Other documented spring uses were found in published and unpublished reports or determined during ADWR's 2006 spring inspections (see table footnote 7).

Notes – The last column in **Table D-1** presents miscellaneous information for certain claimed springs that are not otherwise listed in the table. Most notes describe the following spring conditions:

- Claimed spring is located outside of Reservation boundary or ADWR believes its location within the Reservation is incorrect;
- ADWR believes claimed spring may be a duplicate of another claimed spring;
- ADWR believes claimed spring name is incorrect;
- Claimed spring was previously reported as a well;
- Claimed spring was previously reported as dry or a seep, or recently found in that condition by ADWR; and,
- Multiple springs occur near claimed site and reported discharge may represent more than one spring.

D.3 ANALYSIS OF CLAIMED SPRINGS

Based on the data compiled in **Table D-1**, the following conclusions are drawn regarding claimed springs on the Hopi Indian Reservation:

- ADWR was able to verify 328 or about 91% of the 360 claimed Hopi springs through use of topographic maps, published reports, ADWR ground inspection, and/or supporting evidence from the Hopi.
- ADWR was unable to verify 32 or about 9% of the 360 claimed Hopi springs through the means of verification that were used. Included are six springs that ADWR believes are potential duplicates of other claimed springs.
- Eighteen (18) claimed springs along Pasture Canyon are located outside of the Reservation boundary and one claimed spring is located within the Peabody Western Coal Company (PWCC) leasehold on Reservation land. One claimed spring (S-8-337) was also claimed as a well (W-8-83), and 19 claimed springs were previously reported as wells. ADWR believes the names for seven claimed springs are incorrect.
- Of the 360 claimed springs, 341 springs have a claimed quantity of 4 gpm or 6.5 acre-feet per year (afa), 17 springs have a claimed quantity of 19 gpm (30.9 afa),

1 spring has a claimed quantity of 8 gpm (12.9 afa), and 1 spring has a claimed quantity of 6 gpm (9.2 afa).

- ADWR identified discharge data for 208 or about 58% of the claimed springs. Of the springs with discharge data, a total of 39 had one or more reported discharge that equaled or exceeded the claimed quantity. Discharge data were not available for 152 or about 42% of the claimed springs.
- Reported discharges for the 208 claimed springs ranged from 0 to 326 gpm and totaled from 365 to 1,103 gpm.
- 24 or about 7% of the claimed springs are known to be fed by alluvial aquifers. Reported discharge from 15 alluvial springs has ranged from 0 to 25 gpm and totaled from 21 to 72 gpm.
- 22 or about 6% of the claimed springs are known to be fed by colluvial aquifers. Reported discharge from 13 colluvial springs has ranged from 0 to 8 gpm and totaled from 13 to 20 gpm.
- 7 or about 2% of the claimed springs are known to be fed by spring deposit (travertine) aquifers. Reported discharge from 5 spring deposit springs has ranged from 0.1 to 1.2 gpm and totaled from 1.5 to 4.7 gpm.
- 90 or 25% of the claimed springs are known to be fed by Mesa Verde Formation aquifers. Reported discharge from 67 Mesa Verde Formation springs has ranged from 0 to 50 gpm and totaled from 99 to 202 gpm.
- 4 or about 1% of the claimed springs are known to be fed by the D Aquifer. Reported discharge from 3 D Aquifer springs has ranged from <0.01 to 2 gpm and totaled from 2 to 4 gpm.
- 75 or about 21% of the claimed springs are known to be fed by the N Aquifer. Reported discharge from 69 N Aquifer springs has ranged from 0 to 326 gpm and totaled from 207 to 777 gpm. The discharge of three N Aquifer springs has each been measured at least 16 times including Pasture Canyon Spring (<0.01 to 326 gpm), Burro Spring (0.2 to 1 gpm), and Moenkopi School Spring (8 to 45 gpm).
- It is unknown what water-bearing unit supplies the remaining 138 or about 38% of the claimed springs. 36 of these springs had reported discharges that ranged from 0 to 7 gpm and totaled from 21 to 23 gpm.

- Of the 72 claimed springs with water quality data, 48 or about 67% of these springs exceeded one or more water quality standard. Concentrations of nitrate (22 springs) commonly exceeded the primary drinking water standard; concentrations of total dissolved solids or TDS (31 springs) and sulfate (22 springs) commonly exceeded secondary drinking water standards; and, concentrations of sulfate (6 springs) commonly exceeded livestock water standards.
- Common parameters of concern by water bearing strata include:
    - Alluvium - TDS (secondary);
    - Colluvium – Nitrate (primary) and TDS (secondary);
    - Spring Deposits – TDS (secondary);
    - Mesa Verde Group – Nitrate (primary) and sulfate (secondary);
    - D Aquifer – TDS (secondary); and,
    - N Aquifer – TDS (secondary).
- 73 claimed springs are known to have some form of improvement, with troughs (39 springs) and spring boxes (21 springs) the most common.
- All of the springs are claimed for ceremonial/cultural use. Other claimed uses include stockwatering (351 springs), domestic (339 springs), and irrigation (17 springs). Other documents indicate that 3 of the claimed springs are also used for municipal supply (2 near Moenkopi and 1 near Keams Canyon) and another 52 claimed springs are used for irrigation.

D.4 INVENTORY OF UNCLAIMED SPRINGS

ADWR identified 42 springs on or near the Hopi Indian Reservation that were not claimed. **Table D-2** compiles the data that ADWR collected for these springs. The table is similar in structure as **Table D-1** and contains 18 columns. Each column, from left to right in the table, is described below:

Names/ID Numbers – Most of the unclaimed springs have unique names and/or identification numbers that ADWR identified in various sources. These sources are listed

in table footnote 1 and include topographic maps, published and unpublished reports, and ADWR's field investigations.

Location – Spring locations are provided in Universal Transverse Mercator (UTM) "Easting" and "Northing" coordinates.

Location Source Code – Spring locations were available from four data sources listed in table footnote 2. These sources include ADWR GPS readings, estimates from USGS topographic maps, coordinates provided by PWCC, and estimates from published reports.

Approximate Elevation – Spring elevations were estimated using available UTM coordinates and DEM data provided by the USGS.

Discharge Data – The next 2 columns in the table present spring discharge data:

> ***No. of discharge measurements*** – Number of unique discharge measurements that ADWR identified through review of the data sources listed in table footnote 3; and,
>
> ***Range of discharge measurements*** – Where multiple discharge measurements have been made, the low and high values are presented in gallons per minute. Otherwise, single values are shown, or the column is left blank where no measurements have been made. Note that a discharge of 0 gpm is assumed at springs found to be dry. A discharge of <0.01 gpm is assumed at spring sites where seeps were reported, or where only standing water, damp soil, or indicator vegetation were noted. For the purpose of totaling spring discharge by aquifer type discussed below, flows reported as less than (<) a specified amount are assumed in this report to equal 0 gpm.

Water Bearing Strata – Geologic unit or aquifer system supplying water to the spring. Six unique water bearing strata have been identified that supply springs on the Reservation. These strata include, from youngest to oldest, Alluvial Aquifer, Colluvial Aquifer, Spring Deposits, Mesa Verde Group, D Aquifer, and N Aquifer. Water bearing strata were specified for several, but not all, unclaimed springs in a set of well and spring inventory reports published during the 1960s (1960s reports).

Water Quality Data – This column indicates whether water quality data are available for the spring. Data sources are listed in table footnote 4.

Water Quality Exceedences – If water quality data were available, it was compared to EPA primary and secondary drinking water standards and livestock watering standards from four sources (Arizona Department of Environmental Quality, the Hopi Tribe, the Navajo Nation, and the National Academy of Sciences). Parameters that were found to exceed drinking water and livestock watering standards are noted in separate columns in the table. Abbreviations used in the table to designate parameter exceedences are defined in table footnote 4.

Evidence of Springs – The next three columns indicate the evidence that ADWR had of the unclaimed spring:

> ***Topo map*** – Unclaimed spring appears on a USGS topographic map and was noted by a check in the table;
>
> ***Published reports*** – Unclaimed spring was listed or shown in a published report and was noted by a check in the table. Reports reviewed are listed in table footnote 5; and,
>
> ***ADWR field visit*** – During its field investigation of agricultural lands and claimed spring sites, ADWR noted the unclaimed spring and noted it by a check in the table.

Improvements – Spring improvements, such as pump installations and water storage and distribution features, are also noted in the table. This information was either found in published and unpublished reports or collected during ADWR's 2005 and 2006 field work. Data sources and abbreviations used in the table to designate spring improvements are listed in table footnote 6.

Use – Spring uses were specified in published and unpublished reports or determined during ADWR's field work. Uses for unclaimed springs include domestic, stock, and irrigation. Abbreviations used in the table to designate spring use are defined in table footnote 7.

Notes – The last column in **Table D-2** presents miscellaneous information for certain springs that are not otherwise listed in the table. Most notes describe one of two spring conditions:

- The unclaimed spring is located at or in the vicinity of a claimed spring, but otherwise appears distinct based on the reported spring name, topographic maps, available water quality data, etc.; and,
- Different spring locations are referenced in reports.

D.5 ANALYSIS OF UNCLAIMED SPRINGS

Based on the data compiled in **Table D-2**, the following conclusions are drawn regarding unclaimed springs on the Hopi Indian Reservation:

- ADWR identified 42 unclaimed springs through its field investigations, use of topographic maps, published reports, and comparison of these data sources to **Table D-1**.
- 4 of the unclaimed springs are located at, or in the vicinity of, claimed springs, and 1 spring site may have been claimed as a well. Three other unclaimed springs are found off Reservation in Pasture Canyon and believed to be used for irrigation of Hopi agricultural lands near Moenkopi Village. Three unclaimed springs are located on Hopi allotted lands near Moenkopi that may also be outside of the Reservation boundary. Finally, one unclaimed spring (Cliff Spring) is located on Navajo Partitioned Land east of the Reservation.
- A total of 29 or about 69% of the unclaimed springs had discharge data. Reported discharges for these springs totaled from 30 to 31 gpm.
- 1 or about 2% of the unclaimed springs is known to be fed by alluvial aquifers. Reported discharge from this spring was 2 gpm.
- 1 or about 2% of the unclaimed springs is known to be fed by colluvial aquifers. Reported discharge from this spring was 0.2 gpm.
- 13 or about 31% of the unclaimed springs are known to be fed by Mesa Verde Formation aquifers. Reported discharge from the 11 Mesa Verde Formation springs has ranged from 0 to 8.5 gpm and totaled 18 gpm.
- 1 or about 2% of the unclaimed springs is known to be fed by the D Aquifer. Reported discharge from this spring was 0.1 to 1 gpm.

- 7 or about 17% of the unclaimed springs are in the Moenkopi area and known to be fed by the N Aquifer. Five of these springs have been recorded as seeps.
- It is unknown what water-bearing unit supplies the remaining 19 or about 46% of the unclaimed springs. Ten of these springs had reported discharges that ranged from 0 to 7.5 gpm and totaled about 9 gpm.
- Water quality data were only available for four unclaimed springs – one colluvial spring, one Mesa Verde Formation spring, and two of unknown origin. Three of these springs exceeded the secondary drinking water standard for TDS.
- 10 of the unclaimed springs are reported to have some form of improvement. 12 of the springs are reported to be used for stock, domestic, and/or irrigation purposes.

D.6 REFERENCES

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Tables

Table D-1. INVENTORY OF CLAIMED SPRINGS ON THE HOPI RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-1-3	S011	Smoke Hole Tank			513342	4013526	1	5,947	1	<0.01	4.0	N/A	No				✓		✓			CE,D,S		
S-1-4	S012	Kai Si Kato	1A-66		517830	4017572	2	5,902	1	4	4.0	Mesa Verde Group	Yes	NO3	TDS		✓	✓				CE,D,S	D,S	
S-1-5	S013	Unnamed			520671	4019019	2	6,147			4.0	N/A	No									CE,D,S		Topo indicates claimed site located near a water storage structure; spring maybe dry; ADWR did not find spring at claimed location.
S-1-6	S014	Well under the Rock	1A-64		517744	4024065	2	6,128	1	0.1	4.0	Mesa Verde Group	No				✓	✓				CE,D,S	D,S	
S-1-7	S015	Unnamed			514522	4013306	2	5,964			4.0	N/A	No									CE,D,S		Topo map indicates claimed site located near a water storage structure; spring maybe dry; ADWR did not find spring at claimed location.
S-1-339	S016	Unnamed	1A-73		501223	4013418	2	5,504	2	1	4.0	N Aquifer	Yes	NO3	TDS			✓			TR	CE,D,S		Not on original claim; ADWR did not find spring at claimed location.
S-2-1	S021	Wet Hole	2A-60		543897	4026777	2	5,953			4.0	Alluvial Aquifer	No					✓				CE,S	S	
S-2-8	S022	Unnamed			525024	4014255	2	5,824			4.0	N/A	No							✓		CE,D,S		ADWR did not find spring at claimed location.
S-2-9	S023	Unnamed			524298	4015239	2	5,977			4.0	N/A	No									CE,D,S		
S-2-10	S024	Blu Moencopi	JUA2456		527349	4012690	2	5,663			4.0	N/A	No							✓		CE,D,S		ADWR did not find spring at claimed location.
S-2-11	S025	Coal Slurry	2A-56		529523	4016543	1	5,642	2	<0.01 - 3	4.0	Mesa Verde Group	Yes		SO4, TDS	SO4		✓	✓			CE,S		
S-2-12	S026	Cottonwood	JUA2-4-2		531399	4017624	1	5,866	1	<0.01	4.0	N/A	Yes				✓		✓		SP	CE,D,S		
S-2-13	S027	White Sandstone	JUA-2-4-1		531037	4017961	1	5,740	1	0	4.0	N/A	No						✓			CE,D,S		ADWR observed spring dry during their visit
S-2-14	S028	Dog			532211	4020564	2	6,078			4.0	N/A	No				✓					CE,D,S		
S-2-15	S029	Kydestea	2A-55		529495	4020365	2	5,756	1	3	4.0	Alluvial Aquifer	Yes		SO4, TDS	SO4	✓	✓				CE,D,S		
S-2-16	S0210	Marked trail	02A-08		528116	4021789	1	5,882	1	0	4.0	Mesa Verde Group	No					✓	✓			CE,D,S	S	ADWR observed spring dry during their visit
S-2-17	S0211	Cottonwood	2A-07		526405	4023489	1	6,047	1	0	4.0	Mesa Verde Group	No					✓	✓			CE,S	S	ADWR observed spring dry during their visit
S-2-18	S0212	Twin Corral	2A-54		531885	4025477	1	5,940	1	0	4.0	Mesa Verde Group	No					✓	✓			CE,S	S	ADWR observed spring dry during their visit
S-2-19	S0213	Walk A Mile	4K-349		542763	4014653	2	6,461			4.0	Colluvial Aquifer	Yes		TDS		✓	✓				CE, D,S	D	Previously reported as a well
S-2-20	S0214	Red Willow	4M-60		540670	4020764	1	6,193	1	0	4.0	N/A	No						✓			CE,D,S		Claim name believed to be incorrect; ADWR observed spring dry during their visit
S-2-21	S0215	Two Headed Snake	4M-61		536529	4019287	2	6,027			4.0	Mesa Verde Group	Yes		SO4			✓			TR	CE,D,S	D,S	Previously reported as a well; ADWR did not find spring at claimed location.
S-2-22	S0216	Cottonwood	JUA2-2-7		541415	4020796	1	6,188	1	<0.01	4.0	N/A	No				✓	✓	✓		PI	CE,D,S		
S-2-23	S0217	Looking Woman			543429	4020705	2	6,339			4.0	N/A	No							✓		CE,D,S		ADWR did not find spring at claimed location.
S-2-24	S0218	Black Horse	JUA2-2-6		543055	4021092	1	6,218			4.0	N/A	No				✓		✓		SP	CE,D,S		
S-2-25	S0219	Side Wash	JUA2-5-1		538137	4022252	2	5,951			4.0	N/A	No							✓		CE,D,S		ADWR unable to access claimed spring location.
S-2-26	S0220	Narrow Neck	2A-58		538733	4022778	2	5,844			4.0	Alluvial Aquifer	No					✓				CE,D,S	S	ADWR did not find spring at claimed location.
S-2-27	S0221	Gravel Hole	2A-61		541937	4025042	2	5,900			4.0	Alluvial Aquifer	No					✓				CE,D,S	S	
S-2-210	S0222	2A-59			540434	4024033	2	5,901			4.0	Alluvial Aquifer	No					✓				CE,D,S	S	
S-2-212	S0223	3A-189A			535606	4013412	2	6,380	1	7	4.0	N/A	No					✓				CE,D,S		ADWR did not find spring at claimed location.
S-2-300	S0224	Unnamed	4M-60, Red Willow		540643	4019177	2	6,097	1	2	4.0	Mesa Verde Group	No				✓	✓			C,TR	CE,D,S	D,S	
S-3-2	S031	Landslide			547853	4027753	2	6,201			4.0	N/A	No									CE,D,S		ADWR unable to access claimed spring location.
S-3-28	S032	Many Sheep			552631	4016288	2	6,525			4.0	N/A	No							✓		CE,D,S		See unclaimed spring S032A; ADWR did not find spring at claimed location.
S-3-29	S033	Flat Top Slide			548251	4025185	1	5,950	1	<0.01	4.0	N/A	Yes		TDS				✓			CE,D,S		
S-3-30	S034	Post			552505	4017906	1	6,571	1	<0.01	4.0	N/A	No						✓			CE,D,S		
S-3-31	S035	Owl			551133	4024968	2	6,638			4.0	N/A	No							✓		CE,D,S		ADWR unable to access claimed spring location.
S-3-226	S036	4M-190A			554858	4028845	2	6,468	2	2	4.0	Mesa Verde Group	No					✓				CE,D,S	D,S	Located on the PWCC leasehold.
S-3-227	S037	4M-207			551478	4018143	2	6,736			4.0	Mesa Verde Group	No					✓				CE,D,S	S	ADWR did not find spring at claimed location.
S-3-228	S038	4M-58			549466	4016534	2	6,763			4.0	Mesa Verde Group	No					✓			TR,A	CE,D,S	D,S	Previously reported as a well; ADWR did not find spring at claimed location.
S-4-211	S041	3A-15			484470	3994256	2	4,813	2	2	4.0	N Aquifer	No					✓			TR	CE,D,S	S	

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Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-4-213	S042	3A-23	Seller, Piisave, Piisava		477791	3982620	2	5,123	1	0.2	4.0	N Aquifer	No				✔	✔			TR	CE,D,S	S	
S-4-214	S043	3A-25			478033	3980689	2	4,873	2	0.2 - 0.5	4.0	N Aquifer	No					✔			TR	CE,D,S	S	
S-4-215	S044	3B-265			479964	3996187	2	4,787	2	3 - 10	4.0	N Aquifer	No					✔			C,TR	CE,D,S	IR,S	Claimed location places spring in residential area; ADWR did not find spring at claimed location.
S-4-216	S045	3B-266			479883	3996348	2	4,807	2	0 - 3	4.0	N Aquifer	No					✔			P,C	CE,D,S		Claimed location places spring in residential area; ADWR did not find spring at claimed location.
S-4-218	S046	3-GS-77-6			480224	3995847	2	4,732			4.0	N Aquifer	Yes				✔					CE,D,S		Claim name believed to be incorrect; claimed location places spring in residential area; ADWR did not find spring at claimed location.
S-4-257	S047	Unnamed			475710	3993497	2	4,800			4.0	N/A	No				✔					CE,D,S		
S-4-258	S048	Unnamed			476404	3994186	2	4,668			4.0	N/A	No				✔					CE,D,S		
S-4-259	S049	Unnamed	3A-17, Tonali		478110	3984050	2	5,034	3	0.8 - 3	4.0	N Aquifer	Yes		Al, Fe, Mn		✔	✔				CE,D,S	S	
S-4-260	S0410	Unnamed	Toh Nee Di Kishi		477078	3987108	2	4,955			4.0	N/A	Yes		Al		✔	✔				CE,D,S		
S-4-261	S0411	Unnamed			475679	3993718	2	4,701			4.0	N/A	No				✔					CE,D,S		Multiple springs at this location, see unclaimed springs
S-4-262	S0412	Unnamed			477118	3994584	2	4,613			4.0	N/A	No				✔					CE,D,S		
S-4-263	S0413	Unnamed			477205	3994601	2	4,622			4.0	N/A	No				✔					CE,D,S		
S-4-264	S0414	Unnamed			477313	3994604	2	4,693			4.0	N/A	No				✔					CE,D,S		
S-4-265	S0415	Unnamed			480137	3996133	1	4,754	1	0	4.0	N Aquifer	No				✔		✔		SP	CE,D,S		ADWR observed spring dry during their visit
S-4-266	S0416	Unnamed	3GS-77-6, Moenkopi School Spring (5m), Susungva	90400393 Lower Moencopi	480135	3996022	1	4,749	19	8 - 45	4.0	N Aquifer	Yes				✔	✔	✔		CO,PI,SP,TA	CE,D,S	CE,IR,PS	
S-4-267	S0417	Unnamed			480145	3996108	1	4,738	1	NA	4.0	N Aquifer	Yes				✔	✔	✔		PI,SP,TA	CE,D,S	IR,PS	Unable to measure flow due to spring house
S-4-268	S0418	Unnamed			480158	3996037	1	4,734	1	0	4.0	N Aquifer	No						✔			CE,D,S		ADWR observed spring dry during their visit
S-4-269	S0419	Unnamed			480461	3995848	1	4,697	1	<0.01	4.0	N Aquifer	No					✔	✔		UD,PO	CE,D,S	IR	
S-4-270	S0420	Unnamed			480928	3996626	2	4,790			4.0	N Aquifer	No				✔					CE,D,S		
S-4-271	S0421	Unnamed			480855	3995840	1	4,718	1	<0.01	4.0	N Aquifer	No				✔		✔			CE,D,S		
S-4-272	S0422	Unnamed			480935	3995794	1	4,678	1	<0.01	4.0	N Aquifer	No				✔		✔			CE,D,S	IR	
S-4-273	S0423	Unnamed			480954	3995789	1	4,702	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	IR	
S-4-274	S0424	Unnamed			481131	3995588	1	4,650	1	0	4.0	N Aquifer	No						✔		PI,TA	CE,D,S	IR	ADWR observed spring dry during their visit
S-4-275	S0425	Unnamed			481450	3995733	1	4,737	1	<0.01	4.0	N Aquifer	No				✔		✔		PI,TA	CE,D,S	IR	
S-4-276	S0426	Unnamed			481619	3995741	1	4,693	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-277	S0427	Unnamed			482178	3995482	2	4,729			4.0	N Aquifer	No				✔					CE,D,IR,S		
S-4-278	S0428	Unnamed			482336	3995624	1	4,767	1	<0.01	4.0	N Aquifer	No						✔			CE,D,IR,S		
S-4-279	S0429	Unnamed			482537	3995434	1	4,679	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-280	S0430	Unnamed			482543	3995442	1	4,690	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-281	S0431	Unnamed			482581	3995410	1	4,679	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	S	
S-4-282	S0432	Unnamed			482697	3995382	1	4,702	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	S	
S-4-283	S0433	Unnamed			482755	3995382	1	4,701	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	S	
S-4-284	S0434	Unnamed			482509	3994580	2	4,744			4.0	N Aquifer	No				✔					CE,D,S		
S-4-285	S0435	Unnamed			482821	3995339	1	4,679	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-286	S0436	Unnamed			482944	3995386	1	4,705	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-287	S0437	Unnamed			483309	3995305	1	4,667	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-288	S0438	Unnamed			483373	3995312	1	4,723	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	S	
S-4-289	S0439	Unnamed			483397	3995309	1	4,721	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S	S	
S-4-290	S0440	Unnamed			483467	3995245	1	4,711	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		
S-4-291	S0441	Unnamed			483565	3995206	1	4,721	1	<0.01	4.0	N Aquifer	No						✔			CE,D,S		

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Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-4-292	S0442	Unnamed			484151	3995134	2	4,683			4.0	N Aquifer	No				✓					CE,D,S		
S-4-293	S0443	Unnamed			484636	3995628	1	4,742	1	<0.01	4.0	N Aquifer	No						✓			CE,D,S		
S-4-294	S0444	Unnamed			484768	3995658	1	4,741	1	<0.01	4.0	N Aquifer	No						✓			CE,D,S		
S-4-295	S0445	Unnamed			484757	3995599	1	4,682	1	<0.01	4.0	N Aquifer	No						✓			CE,D,S		
S-4-296	S0446	Unnamed			485563	3996097	1	4,744	1	<0.01	4.0	N Aquifer	No						✓			CE,D,S		
S-4-297	S0447	Unnamed			485067	3995929	1	4,676	1	0.5	4.0	N Aquifer	No						✓			CE,D,S		
S-4-298	S0448	Unnamed			485045	3995925	1	4,683	1	<0.01	4.0	N Aquifer	No						✓			CE,D,S		
S-4-299	S0449	Unnamed	Ironwood, Otopsapva		484652	3993788	2	4,849			4.0	N Aquifer	No				✓	✓				CE,D,S		
S-4-343	S0450	Unnamed			481740	4002033	2	4,982	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim; ADWR did not find spring at claimed location.
S-4-344	S0451	Unnamed			481705	4002327	1	4,971	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim.
S-4-345	S0452	Unnamed			481704	4002166	2	5,007	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim; ADWR did not find spring at claimed location.
S-4-346	S0453	Unnamed			481818	4002282	2	5,031	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim; ADWR did not find spring at claimed location.
S-4-347	S0454	Unnamed			481863	4002344	2	4,995	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim.
S-4-348	S0455	Unnamed			481867	4002614	1	5,005	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim.
S-4-349	S0456	Unnamed			481807	4002713	1	5,040	2	<0.01 - 19	19.0	N Aquifer	No				✓		✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim.
S-4-350	S0457	Unnamed			481942	4002658	2	5,032	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim; ADWR did not find spring at claimed location.
S-4-351	S0458	Unnamed			481939	4002730	2	5,028	1	19	19.0	N Aquifer	No							✓		CE,D,S	CE,IR	Located outside claimed reservation boundary; not on original claim; discharge from claim; ADWR did not find spring at claimed location.
S-4-352	S0459	Unnamed			481886	4002966	1	5,027	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim.
S-4-353	S0460	Unnamed	3A-5, Pasture Canyon		481888	4003001	1	5,032	3 ***(13)***	<0.01 - 19 ***(31 -326)***	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(USGS measured the combined flow from several upstream springs: some discharges may have been reduced by irrigation diversions)***
S-4-354	S0461	Unnamed			481900	4003025	1	5,031	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***
S-4-355	S0462	Unnamed			481916	4003048	1	5,032	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***
S-4-356	S0463	Unnamed			481932	4003070	1	5,034	2	<0.01 - 19	19.0	N Aquifer	Yes					✓	✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***
S-4-357	S0464	Unnamed			482023	4003132	1	5,082	2	<0.01 - 19	19.0	N Aquifer	No						✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***

Table D-1. INVENTORY OF CLAIMED SPRINGS ON THE HOPI RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-4-358	S0465	Unnamed			482055	4003177	1	5,058	2	<0.01 - 19	19.0	N Aquifer	No				✓		✓			CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; one discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***
S-4-359	S0466	Unnamed			482065	4003332	1	5,054	2	9 - 19	19.0	N Aquifer	Yes						✓		UD	CE,D,S	CE,IR	Located outside claimed reservation boundary, not on original claim; discharge from claim; ***(flow may be reflected at USGS gage at S-4-353)***
S-4-360	S0467	Unnamed	3A-5A, Eagle Nest, Talakwava		482340	4004173	2	5,164	1	50	4.0	N Aquifer	No					✓				CE,D,S		Located outside claimed reservation boundary; not on original claim; ADWR did not find spring at claimed location.
S-5-32	S051	Nee De Miso Bito, 1A-74			500855	4010110	1	5,319	3	<0.01 - 2	4.0	N Aquifer	No					✓	✓			CE,S	S	
S-5-33	S052	Nee De Miso Bito	1A-75		500870	4009773	1	5,278	2	<0.02 - 5	4.0	N Aquifer	Yes		SO4, TDS		✓	✓	✓		PI,SP,TA	CE,D,S	S	
S-5-34	S053	Bitter	1A-76		508919	4010330	1	5,583	1	0	4.0	Alluvial Aquifer	Yes	NO3	SO4, TDS	SO4	✓	✓	✓		PI,SP	CE,D,S		Previously reported as a well; ADWR observed spring dry during their visit
S-5-35	S054	Cold Water			502042	4005058	2	5,138			4.0	N/A	No				✓					CE,D,S		
S-5-36	S055	01A-83	Sand		506346	4002575	2	5,227	2	0.1 - 2	4.0	N Aquifer	No				✓	✓			TR	CE,D,S	D,S	
S-5-37	S056	Wildhorse			511102	3999749	2	5,336			4.0	N/A	No				✓					CE,D,S		
S-5-38	S057	4 Sheep			514615	4002215	2	5,250			4.0	N/A	No				✓					CE,D,S		Multiple springs at this location, see unclaimed springs
S-5-39	S058	Base of Cottonwood			517503	4007396	2	5,841			4.0	N/A	No				✓					CE,D,S		
S-5-57	S059	Round Rock			506375	3996783	2	5,375			4.0	N/A	No							✓		CE,D,S		ADWR unable to access claimed spring location.
S-5-58	S0510	Muddy Water			505050	3996011	1	5,125	1	NA	4.0	N/A	No						✓			CE,D,S		Direct access restricted
S-5-59	S0511	Nez			506429	3990621	2	5,391			4.0	N/A	No				✓					CE,D,S		
S-5-60	S0512	Badger	Honanva, Upper Badger		512072	3988860	1	5,586	2	<0.01 - 0.23	4.0	D Aquifer	Yes		TDS		✓	✓	✓		CO,PI,TR	CE,D,S	D,S	
S-5-61	S0513	Lower Badger	3M-159		511976	3989098	1	5,564	2	<0.01 - 1.8	4.0	D Aquifer	Yes	NO3	F, SO4, TDS	F	✓	✓	✓		CO	CE,D,S	D,S	
S-5-62	S0514	03M-159A2			512085	3988778	2	5,581			4.0	D Aquifer	No									CE,D,S		ADWR did not find spring at claimed location.
S-5-63	S0515	JUA2-8-844B			521484	3992647	2	5,681			4.0	N/A	No									CE,D,S		
S-5-64	S0516	Log Crib			522122	3993432	1	5,472	1	NA	4.0	N/A	No				✓		✓			CE,D,S		Direct access restricted
S-5-65	S0517	2-9-139A	Shale		520778	3995295	2	5,496			4.0	N/A	No				✓					CE,D,S		
S-5-66	S0518	JUA2-8-344A	Willow		519425	3996463	2	5,693	1	6	6.0	N/A	No				✓					CE,D,S		Discharge from claim
S-5-206	S0519	1A-70			505402	4011344	2	5,426	1	<0.1	4.0	N Aquifer	No					✓			A	CE,D,S	D	Previously reported as a well
S-5-207	S0520	1A-79			517874	4010459	2	5,831			4.0	Mesa Verde Group	No					✓				CE,D,S		
S-5-209	S0521	1A-82			509747	4001688	2	5,099	1	2	4.0	Alluvial Aquifer	No					✓				CE,D,S	S	ADWR did not find spring at claimed location.
S-5-217	S0522	3GS-76-1	Muddy Water		504275	3996619	2	5,308	1	15	4.0	N Aquifer	No					✓				CE,D,S	S	
S-5-301	S0523	Bat	3M-160		513753	3986779	2	5,663			4.0	Alluvial Aquifer	No				✓	✓				CE,D,S	S	Previously reported as a well
S-6-40	S061	Unnamed			523836	3997874	1	5,572	1	0	4.0	N/A	No				✓		✓			CE,D,S		ADWR observed spring dry during their visit
S-6-41	S062	Hand Built Spring	JUA-2-9-391		524782	3997931	1	5,709	1	<0.01	4.0	N/A	No						✓			CE,D,S		
S-6-42	S063	Toh-ah-chi	JUA-2-A-163		530674	3996742	2	6,056			4.0	N/A	No									CE,D,S		Duplicate of claimed spring S-6-335; ADWR did not find spring at claimed location.
S-6-43	S064	Nakai Yazzie	4M-143		529341	3999263	2	5,813			4.0	Mesa Verde Group	No				✓	✓			TR	CE,D,S	D,S	Previously reported as a well
S-6-44	S065	04M-137	Cottonwood		525135	4001469	2	5,580	1	0.5	4.0	Alluvial Aquifer	No				✓	✓				CE,D	D,S	Previously reported as a well
S-6-45	S066	Danger	JUA-2-10-384A		531894	4004880	2	5,894			4.0	N/A	No				✓					CE,D,S		
S-6-46	S067	Sand	JUA-2-9-80A		530289	4006846	2	5,805			4.0	N/A	No				✓					CE,D,S		
S-6-47	S068	2 Sheep	1A-80, Many Fast Drips		524597	4006304	2	5,390	2	1 - 10	4.0	Mesa Verde Group	No					✓				CE,D,S	S	Two springs .5 mile apart with the same name, see claimed spring S069; ADWR did not find
S-6-48	S069	Many Fast Drip	JUA-2-10-80		523836	4005952	1	5,415	1	<0.01	4.0	Mesa Verde Group	Yes						✓			CE,D,S		Two springs .5 mile apart with the same name, see claimed spring S068
S-6-49	S0610	Horse Thief			524663	4009416	2	5,594			4.0	N/A	No				✓					CE,D,S		
S-6-50	S0611	Cliff Dwelling	JUA2-10-384B		533770	4004271	2	5,860			4.0	N/A	No				✓					CE,D,S		
S-6-51	S0612	Horse	JUA2-11-384		538040	4004566	2	6,141			4.0	N/A	No				✓					CE,D,S		

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CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-6-52	S0613	Narrow Ledge	JUA2-4-1940		533838	4008200	1	5,935	1	<0.01	4.0	N/A	Yes						✔			CE,D,S		
S-6-53	S0614	Big Mountain	Big Mountain Ruin		541969	4008219	2	6,422			4.0	N/A	No				✔					CE,D,S		
S-6-54	S0615	Sweet Water	4M-194E		536917	4009995	1	6,015	3	<0.01 - 10	4.0	Alluvial Aquifer	Yes		Al, pH, SO4, TDS		✔	✔	✔		SP	CE,D,S	D,S	
S-6-55	S0616	Kinni Taah	4M-144A		536700	4010215	1	6,062	1	<0.01	4.0	N/A	Yes				✔	✔	✔		SP	CE,D,S		
S-6-67	S0617	Ba Ha Zohnnie Bito	4M-123		533704	3988804	2	5,966			4.0	Mesa Verde Group	No				✔	✔			H,TR	CE,D,S	D,S	Previously reported as a well
S-6-68	S0618	Bobcat	JUA-2-A-393		525076	3985410	1	6,022	1	<0.01	4.0	N/A	Yes						✔			CE,D,S		
S-6-69	S0619	Salt Seep	JUA-2-149		527910	3985425	2	5,931			4.0	N/A	No							✔		CE,D,S	CE	ADWR denied access
S-6-70	S0620	Dove	4A-149A		528269	3986452	1	5,955	1	<0.02	4.0	N/A	Yes				✔	✔	✔		PI,SP,TA	CE,D,S	D,IR,S	
S-6-71	S0621	Sunlight			528610	3986466	1	6,022	1	<0.01	4.0	N/A	No				✔		✔			CE,D,S		
S-6-72	S0622	Wash Ruins			529105	3987401	2	5,996			4.0	N/A	No				✔					CE,D,S		
S-6-73	S0623	Cottonwood, White Cave	4M-149		531474	3988188	2	6,042	3	0.1 - 1	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,S	
S-6-74	S0624	Ba Ha Zohnnie Bito			533755	3988773	2	5,966			4.0	N/A	No				✔					CE,D,S		
S-6-75	S0625	Tis Ya Toh	4M-139		524884	3992245	1	5,815	4	0 - 1.5	4.0	Mesa Verde Group	Yes	NO3			✔	✔	✔		H, TR	CE,D,S	D,S	One discharge from claim; ADWR observed spring dry during their visit
S-6-76	S0626	Tochai	To Cai		535359	3987978	2	5,852			4.0	N/A	No				✔					CE,D,S		
S-6-77	S0627	Toh Ah Honnie Betoh			534568	3991950	2	6,060			4.0	N/A	No				✔					CE,D,S		
S-6-208	S0628	1A-80A			523357	4008695	2	5,785	1	0.1	4.0	Alluvial Aquifer	No					✔				CE,D,S	D,S	
S-6-222	S0629	4M-139			524805	3992521	2	5,921			4.0	Mesa Verde Group	No									CE,D,S		Claim name believed to be incorrect; possible duplicate of claimed spring S-6-75; ADWR did not find spring at claimed location.
S-6-223	S0630	4M-142			533576	3991878	2	6,135	1	0.8	4.0	Mesa Verde Group	Yes	NO3				✔				CE,D,S	D,S	Previously reported as a well
S-6-224	S0631	4M-145			534220	4004028	2	6,029	2	0.1	4.0	Mesa Verde Group	No					✔				CE,D,S	S	
S-6-225	S0632	4M-146			533415	4004994	2	5,988	2	1	4.0	Mesa Verde Group	No					✔				CE,D,S	S	
S-6-229	S0633	4M-66			534220	4008293	2	5,999	2	4	4.0	Mesa Verde Group	No					✔				CE,D,S	S	ADWR did not find spring at claimed location.
S-6-248	S0634	4T-519/BM OBS 5			544055	3985553	2	5,862			4.0	N/A	No							✔		CE,D,S		ADWR did not find spring at claimed location.
S-6-335	S0635	Toh-Ah-Chi			530587	3997966	1	5,960	1	<0.01	4.0	N/A	Yes				✔		✔		SP,TR	CE,D,S	D,S	
S-6-336	S0636	Toh Honi Ni Toh	Honie		534414	3992017	2	6,062			4.0	N/A	Yes		SO4		✔	✔				CE,D,S		
S-7-56	S071	Big Mountain	4M-187		547137	4008246	2	6,615	2	0.1	4.0	Mesa Verde Group	No				✔	✔			TR	CE,D,S		
S-7-78	S072	Hastiin Akahibito			561528	3985596	2	6,342			4.0	Mesa Verde Group	No				✔					CE,D,S		
S-7-79	S073	Crooked Finger	4M-105		561541	3987199	2	6,404	2	0.5	4.0	Mesa Verde Group	No				✔	✔			TR	CE,D,S	D,S	
S-7-80	S074	Unnamed			561516	3987322	2	6,401			4.0	Mesa Verde Group	No				✔					CE,D,S		
S-7-81	S075	Under Rock	4M-102		562288	3988518	1	6,419	4	<0.01 - 0.5	4.0	Mesa Verde Group	Yes				✔	✔	✔		SP,TR	CE,D,S	S	
S-7-82	S076	Unnamed			562209	3988374	2	6,486			4.0	N/A	No									CE,D,S		Possible duplicate of claimed spring S-7-81; ADWR did not find spring at claimed location.
S-7-83	S077	Rough Rock	4M-104		561732	3988984	1	6,467	3	0.3 - 0.5	4.0	Mesa Verde Group	Yes				✔	✔	✔		PI,SP,TR	CE,D,S	D,S	
S-7-219	S078	4GS-74-1			546302	4000954	2	6,167			4.0	Mesa Verde Group	No					✔				CE,D,S		
S-7-220	S079	4M-103			562556	3988080	2	6,382	1	0.5	4.0	Mesa Verde Group	No					✔				CE,D,S	D,S	Previously reported as a well
S-7-221	S0710	4M-105A			561349	3985505	2	6,309			4.0	Mesa Verde Group	No					✔				CE,D,S	D	Previously reported as a well
S-7-237	S0711	6K-314			553705	3985666	2	6,155	1	0.1	4.0	Mesa Verde Group	No					✔				CE,D,S	D,S	
S-7-238	S0712	6K-315			553383	3984459	2	6,159	1	0.1	4.0	Mesa Verde Group	No					✔				CE,D,S	D,S	
S-7-240	S0713	6M-130			554187	3987275	2	6,147	1	0.2	4.0	Mesa Verde Group	No					✔				CE,D,S	D,S	
S-8-84	S081	JUA-5B-332			510455	3970722	2	5,731			4.0	N/A	No							✔		CE,D,S		ADWR unable to access claimed spring location.
S-8-85	S082	Unnamed			510132	3976465	1	6,182	1	0	4.0	Mesa Verde Group	No						✔		CO,TR	CE,D,S	D,S	ADWR observed spring dry during their visit
S-8-86	S083	New	Per hoo bah		502880	3981222	2	6,055			4.0	N/A	No					✔				CE,S	S	
S-8-87	S084	Unnamed			521760	3978018	2	5,578			4.0	N/A	No				✔					CE,D,S		

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Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-8-117	S085	Dinnebito			508097	3961217	2	5,194			4.0	N/A	Yes		pH		✔	✔				CE,D,S		
S-8-118	S086	Hock	3M-172		508428	3967393	2	5,523	2	1 - 2	4.0	Alluvial Aquifer	Yes		SO4, TDS		✔	✔			TR	CE,D,S	D,S	Previously reported as a well; one discharge from claim
S-8-119	S087	Hamana			518323	3961493	2	5,912			4.0	N/A	No									CE,D,S		
S-8-243	S088	6M-45			521084	3957383	2	5,605			4.0	Alluvial Aquifer	No					✔				CE,D,S	D,S	Previously reported as a well
S-8-337	S089	Red Clay			520607	3969522	1	5,699	1	0	4.0	Alluvial Aquifer	No				✔		✔		OT	CE,D,S		Also claimed as well W-8-83; ADWR observed spring dry during their visit
S-9-88	S091	Mumurva	Monusva, 6M-58		528120	3970972	2	5,984			4.0	Colluvial Aquifer	Yes	NO3	SO4, TDS		✔	✔				CE,D,S	D	Previously reported as a well
S-9-89	S092	Hoovi Pa	Dove		530914	3973976	1	6,182	1	<0.01	4.0	N/A	No				✔		✔			CE,D,S	CE	
S-9-90	S093	Bacavi	6M-72, Paaqavi		530719	3975201	2	6,235	3	0 - 15	4.0	Mesa Verde Group	Yes	NO3	SO4		✔	✔			P	CE,D,S	D,IR	
S-9-91	S094	Unnamed			532410	3976458	1	6,212	1	<0.01	4.0	N/A	Yes		TDS				✔			CE,D,S		
S-9-92	S095	Hotevilla	Hotvela		529469	3975857	1	6,339	4	1 - 7.2	4.0	Mesa Verde Group	Yes	Pb, NO3	Al, SO4, TDS		✔	✔	✔		PI,PO,SP	CE,D,IR,S	D,IR,S	
S-9-93	S096	Unnamed			542779	3975164	2	6,042			4.0	N/A	No									CE,D,S		
S-9-94	S097	Ba Du We			542811	3978892	2	5,835			4.0	N/A	No									CE,D,S		
S-9-95	S098	06M-63			532884	3980667	2	5,978			4.0	N/A	No									CE,D,S		Claim name believed to be incorrect
S-9-111	S099	Unnamed			532163	3972469	2	6,104			4.0	N/A	No									CE,D,S		ADWR did not find spring at claimed location.
S-9-120	S0910	Stinkbug	Hohoyawva		542215	3962036	2	6,224			4.0	N/A	No				✔	✔				CE,D,S		
S-9-121	S0911	Grooming	Naftakinva		542963	3962530	1	6,254	2	<0.01 - 1	4.0	Colluvial Aquifer	Yes		TDS		✔	✔	✔		SP,TR	CE,D,S	CE,S	
S-9-122	S0912	Brownrock	6H-27		542239	3962375	2	6,267	2	0.1 - 0.8	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	CE,D,S	
S-9-123	S0913	White Hall (1 of 2)	Qotsatspelvi, Tuyqava, Whitewall		542606	3962889	2	6,328			4.0	Colluvial Aquifer	No				✔	✔				CE,D,S	CE,IR	
S-9-124	S0914	White Hall (2 of 2)	Qotsatspelvi, Tuyqava, Whitewall		542616	3962928	2	6,313			4.0	Colluvial Aquifer	No				✔	✔				CE,D,S	IR	
S-9-125	S0915	Unnamed			543265	3962935	2	5,946			4.0	Mesa Verde Group	No									CE,D,S		
S-9-126	S0916	Corner	6H-27A, Popsova		542677	3963275	2	6,285	1	0.2	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	IR	
S-9-127	S0917	Sueiva	6H-26, Suvebi, Suwviva, Suuviva		542588	3963274	2	6,331	2	0.2 - 4	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,IR,S	Same name but different location and discharge than Unclaimed spring 6H-26
S-9-128	S0918	Bluebird	Tsorva		541757	3963451	2	6,260			4.0	Mesa Verde Group	No				✔	✔				CE,D,S	CE	
S-9-129	S0919	Shaded			543085	3963704	2	6,273			4.0	N/A	No				✔	✔				CE,D,S		
S-9-130	S0920	6H-24			544539	3965237	2	6,280	1	0.5	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,S	
S-9-131	S0921	Dove	Howiipa		541987	3965065	2	6,188			4.0	N/A	No				✔	✔				CE,D,S		
S-9-132	S0922	Cave			539907	3967263	2	6,163			4.0	N/A	No				✔					CE,D,S		
S-9-133	S0923	Unnamed			542489	3967768	2	6,051			4.0	Mesa Verde Group	No									CE,D,S		Probably a duplicate of claimed springs S-9-134 or S-9-135; ADWR did not find spring at claimed location.
S-9-134	S0924	Unnamed	Ruins, 6M-39		542909	3968041	1	6,171	3	<0.01 - 0.5	4.0	Mesa Verde Group	No				✔	✔	✔		PO,TR	CE,D,S	D,S	
S-9-135	S0925	Ruins	Kucha'va, White		542972	3967993	2	6,060			4.0	Mesa Verde Group	No				✔					CE,D,S		Claim name believed to be incorrect; ADWR did not find spring at claimed location.
S-9-163	S0926	06K-04S			530014	3963034	2	5,515			4.0	Mesa Verde Group	No									CE,S		Claim name believed to be incorrect; 6K-4S is in Keams Canyon as per PWCC; see unclaimed springs; ADWR did not find spring at claimed location.
S-9-302	S0927	Unnamed	6M-70A, Ho'onawpa, Bear		525797	3975741	2	5,938	1	0.1	4.0	Colluvial Aquifer	No				✔	✔				CE,D,S	S	
S-9-303	S0928	Unnamed			528315	3972346	1	6,081	1	0	4.0	N/A	No						✔			CE,D,S		ADWR observed spring dry during their visit
S-9-304	S0929	Unnamed	Siwukva, 6M-59		528824	3973060	2	6,387	1	3	4.0	Mesa Verde Group	No				✔	✔			C,TR	CE,D,S	S	
S-9-305	S0930	Unnamed			532398	3976393	1	6,220	1	0	4.0	N/A	No						✔			CE,D,S		ADWR observed spring dry during their visit
S-9-306	S0931	Unnamed			529973	3976340	1	6,210	1	<0.01	4.0	N/A	No						✔		PI,PO	CE,D,S	IR	
S-9-307	S0932	Unnamed			533884	3971212	2	5,900			4.0	N/A	No									CE,D,S		
S-9-308	S0933	Unnamed	6M-63		540415	3980705	2	5,865	1	3	4.0	Mesa Verde Group	No				✔	✔			TR	CE,D,S	D,S	
S-9-324	S0934	Gray	6H-29, Masiipa		543259	3961687	2	5,887	1	0	4.0	Colluvial Aquifer	No					✔				CE,D,S	CE,D,IR,S	Previously reported as dry
S-9-325	S0935	Lomova	6H-31		543196	3961886	1	5,887	3	0 - 0.5	4.0	Colluvial Aquifer	No					✔	✔		SP	CE,D,S	S	ADWR observed spring dry during their visit

Table D-1. INVENTORY OF CLAIMED SPRINGS ON THE HOPI RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-9-326	S0936	Songoopa	Sand Grass		543153	3962165	2	5,960			4.0	Colluvial Aquifer	No					✔				CE,S		Spring disapeared in the 1870's after a local earthquake
S-9-340	S0938	Iskasokpu	Burping Coyote		542620	3964830	2	6,279			4.0	N/A	No					✔				CE,D,S	CE,D,S	Not on original claim; ADWR did not find spring at claimed location.
S-9-341	S0939	Tuyqavi			542633	3963279	2	6,325			4.0	Mesa Verde Group	No									CE,D,S		Not on original claim; possible duplicate of claimed spring S-9-126; also same name as claimed spring S-9-124 which is .25 miles away
S-9-342	S0937	Reservoir			532315	3970188	1	6,068	1	0	4.0	N/A	No						✔			CE,D,S		Not on original claim; ADWR observed spring dry during their visit
S-10-96	S0101	Goat			545329	3976347	2	5,947			4.0	N/A	No				✔	✔				CE,D,S		
S-10-97	S0102	Ceremonial Flute	Leenagwva		556217	3974758	2	5,945			4.0	N/A	No				✔	✔				CE,D,S	CE	
S-10-98	S0103	Onion	4K-315		546358	3983631	2	5,916	3	0.1 - 2	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,S	One discharge from claim
S-10-99	S0104	Sheep	Kanelva		557247	3970162	2	6,080			4.0	N/A	No				✔	✔				CE,D,S	CE,IR	
S-10-100	S0105	Sand Hill	6H-03, Par veck pah		558916	3971775	2	6,221	2	0.5 - 0.8	4.0	Colluvial Aquifer	Yes	NO3			✔	✔				CE,D,IR,S	D,IR,S	
S-10-101	S0106	06H-02	Wepo South, Cottonwood, Cohoivaka		557001	3971776	2	5,928	3	2.7 - 25	4.0	Alluvial Aquifer	No				✔	✔				CE,D,IR,S	S	
S-10-102	S0107	Wepo	Wipho, Cattail, Reed		557252	3971904	2	5,995	3	1.5 - 30	8.0	Mesa Verde Group	Yes	NO3, Se	Al, SO4	Se	✔	✔				CE,D,IR,S	CE,D,IR,S	One discharge from claim
S-10-103	S0108	Unnamed	6H-5		557728	3972650	1	5,987	2	<0.01 - 0.8	4.0	Mesa Verde Group	Yes	NO3			✔	✔	✔		PI	CE,D,S	D,IR,S	
S-10-104	S0109	Fly			560543	3972218	2	6,079			4.0	N/A	No				✔					CE,D,S		
S-10-105	S01010	Sand	Pisava		558235	3974866	1	5,929	1	<0.01	4.0	Mesa Verde Group	Yes				✔	✔	✔		PI,SP,TR	CE,D,S		
S-10-106	S01011	Unnamed	Sand (2)		558370	3974760	2	5,909			4.0	N/A	No				✔					CE,D,S		ADWR did not find spring at claimed location.
S-10-107	S01012	Donkey	6H-13,		559458	3976986	2	5,939	2	0.2 - 0.5	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,S	
S-10-108	S01013	Manure			563269	3979557	2	6,309			4.0	N/A	No				✔					CE,D,S		
S-10-109	S01014	06H-12			561067	3979893	2	6,088	1	0.5	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D	
S-10-110	S01015	Cat			566726	3981978	2	6,319	1	2	4.0	Mesa Verde Group	No				✔	✔			C,TR	CE,D,S	D,S	
S-10-136	S01016	Lemova	Lemeva, 6M-21		546674	3962213	2	5,900	1	2	4.0	Colluvial Aquifer	No				✔	✔			TR	CE,D,S	D,IR,S	
S-10-137	S01017	Toreva	Twisted Curve, 6M-20		545347	3962252	2	5,892			4.0	N/A	No				✔	✔				CE,D,S	CE,IR	
S-10-138	S01018	Driftwood			560351	3963651	2	5,798			4.0	N/A	No									CE,D,S		ADWR did not find spring at claimed location.
S-10-139	S01019	Aqwda	6H-22, Aqwpa		545643	3964054	2	6,261	1	1	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,S	
S-10-140	S01020	Aqiva	6H-22A, Asuva, Ausuivi, Asayva		545639	3964662	2	6,270	1	0.2	4.0	Mesa Verde Group	No				✔	✔				CE,D,S	D,IR,S	
S-10-141	S01021	Twapa	Tawapa, Sun		555224	3965139	2	5,783			4.0	N/A	No				✔	✔				CE,D,S	CE,S	
S-10-142	S01022	Unnamed	South, Sour, Teveckya		554606	3966029	2	5,863			4.0	N/A	No				✔	✔				CE,D,S		
S-10-143	S01023	Spider	Kohkyangwva		554636	3966239	2	5,839			4.0	N/A	No				✔	✔				CE,D,S	CE,D	
S-10-144	S01024	Coyote	6B-3, Isva		555605	3966152	1	5,821	1	0	4.0	Colluvial Aquifer	Yes	NO3	Al, SO4, TDS	SO4	✔	✔	✔		SP	CE,D,IR,S	CE,D	ADWR observed spring dry during their visit
S-10-145	S01025	Flower	6M-68, Wuko'kwan tu kwi, Siipa		556243	3966844	1	5,792	4	<0.01 - 1	4.0	Colluvial Aquifer	Yes		SO4, TDS		✔	✔	✔		OT	CE,D,S	CE,IR,S	
S-10-146	S01026	Bean	Morvia		556212	3969707	2	5,863			4.0	N/A	No				✔	✔				CE,D,S	CE,IR,S	
S-10-147	S01027	Unnamed	Chief, Monwisva		565340	3957463	2	6,630	1	1.5	4.0	N/A	No					✔				CE,D,S		ADWR did not find spring at claimed location.
S-10-148	S01028	Buhu Va			563208	3960744	2	6,082	1	1	4.0	N/A	No				✔					CE,D,S		Discharge from claim
S-10-149	S01029	06M-04			566243	3961013	2	6,028	1	4	4.0	Alluvial Aquifer	Yes		SO4, TDS			✔				CE,S	S	
S-10-150	S01030	Sacatone	6M-3A, Wee ke be		567311	3964731	2	6,015	1	0.5	4.0	Mesa Verde Group	No				✔	✔			Re	CE,D,S	D,IR,S	
S-10-151	S01031	Weni Bah	Wingva, Wiinpa, Standing Water, 6M-27		561061	3969880	2	5,849	2	0.2 - 0.5	4.0	Colluvial Aquifer	No				✔	✔			C,TR	CE,D,S	CE,D,IR,S	
S-10-205	S01032	Skull	7H-69		561322	3975551	2	6,105	1	0.1	4.0	N/A	No					✔			C,TR	CE,D,S		ADWR did not find spring at claimed location.
S-10-231	S01033	6H-1			554482	3966144	2	5,836			4.0	Colluvial Aquifer	No					✔				CE,D,S	D,S	Previously reported as a well
S-10-232	S01034	6H-17			546679	3962443	2	5,891			4.0	Colluvial Aquifer	Yes	NO3	SO4, TDS			✔				CE,D,S	CE	
S-10-233	S01035	6H-20			545389	3962443	2	5,950			4.0	Colluvial Aquifer	Yes	NO3	SO4, TDS			✔				CE,D,S	CE,D	

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CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-10-234	S01036	6H-6			556735	3970007	2	5,934	1	0.5	4.0	Colluvial Aquifer	No				✓	✓				CE,D,S	IR,S	
S-10-235	S01037	6H-7			558183	3974754	2	5,885	1	0.2	4.0	Mesa Verde Group	No					✓			C,H,TR	CE,D,S	D,IR,S	ADWR did not find spring at claimed location.
S-10-236	S01038	6K-310S			545447	3982359	2	5,896	1	2	4.0	Mesa Verde Group	No				✓	✓				CE,D,S	D,S	
S-10-239	S01039	6M-12			565348	3959303	2	6,313	2	2 - 4	4.0	Mesa Verde Group	No				✓	✓				CE,D,S	S	
S-10-241	S01040	6M-302A			556896	3970087	2	5,941			4.0	Alluvial Aquifer	No									CE,D,S		Claim name doesn't match 1960's report; ADWR did not find spring at claimed location.
S-10-242	S01041	6M-302B			556815	3970007	2	5,923			4.0	Alluvial Aquifer	No									CE,D,S		Claim name doesn't match 1960's report
S-10-244	S01042	6M-68	Kwakatvi		556134	3967095	2	5,884			4.0	N/A	No					✓				CE,D,S	CE,IR	ADWR did not find spring at claimed location.
S-10-245	S01043	6M-70			548608	3975881	2	6,179			4.0	N/A	No									CE,D,S		Claim name doesn't match 1960's report
S-10-246	S01044	6M-9			554723	3962765	2	5,583			4.0	Alluvial Aquifer	Yes	NO3	SO4, TDS			✓				CE,D,S	D,S	Previously reported as a well
S-10-250	S01045	6-F-1			561136	3966214	2	5,782			4.0	N/A	No							✓		CE,D,S		Topo indicates claimed site located near a water storage structure; spring maybe dry; ADWR did not find spring at claimed location.
S-10-251	S01046	6K-305-94			554195	3956981	2	5,739	1	2	4.0	D Aquifer	No					✓				CE,D,S	D,S	Previously reported as a well; ADWR did not find spring at claimed location.
S-10-254	S01047	Harry K.			546012	3977873	2	5,996			4.0	N/A	No				✓					CE,D,S		
S-10-309	S01048	Unnamed			553913	3970419	2	5,932			4.0	N/A	No							✓		CE,D,S		ADWR did not find spring at claimed location.
S-10-310	S01049	Sand			558300	3976972	2	5,938			4.0	N/A	No									CE,D,S		
S-10-316	S01050	Unnamed	Monowopsa, Owl Corner		566755	3968795	2	6,023			4.0	N/A	No					✓				CE,D,S		ADWR did not find spring at claimed location.
S-10-317	S01051	New Water			551800	3968096	2	5,821			4.0	N/A	No							✓		CE,S		ADWR did not find spring at claimed location.
S-10-318	S01052	Big Water	Wokokova		550828	3968134	2	5,875			4.0	N/A	No					✓				CE,S	CE,IR,S	ADWR did not find spring at claimed location.
S-10-319	S01053	Sand Water			556134	3968390	2	5,961			4.0	N/A	No					✓				CE,S	CE,IR	ADWR did not find spring at claimed location.
S-10-320	S01054	Short Roots	Anapolva		554054	3964705	2	5,770			4.0	N/A	No					✓				CE,D,S	CE,IR	
S-10-321	S01055	Many Wind Water	Hu cat we bah		553639	3957747	2	5,653			4.0	N/A	No					✓				CE,D,S		Topo indicates claimed site located near a water storage structure; spring maybe dry; ADWR did not find spring at claimed location.
S-10-322	S01056	Unnamed	Jucqa-va, Motsifkyahoyvi		545253	3963196	2	6,223			4.0	N/A	No				✓	✓				CE,D,S		ADWR did not find spring at claimed location.
S-10-323	S01057	Unnamed	Driftwood, Talauva,		545260	3963737	1	6,301	1	<0.01	4.0	N/A	Yes				✓	✓	✓		PO	CE,S	CE,D,S	
S-11-112	S0111	06M-82			574950	3972580	2	6,248	1	0.2	4.0	Mesa Verde Group	Yes	NO3			✓	✓				CE,D,S	D,S	
S-11-113	S0112	Unnamed			571591	3971633	2	6,138			4.0	N/A	No									CE,D,S		ADWR did not find spring at claimed location.
S-11-114	S0113	D. Lalo			578047	3971831	2	6,627			4.0	N/A	No									CE,D,S		Claim name same as unclaimed spring 6A-21 located 1.5 miles away; ADWR did not find spring at claimed location.
S-11-115	S0114	Unnamed			575304	3972924	2	6,203			4.0	Mesa Verde Group	No				✓					CE,D,S		
S-11-116	S0115	07H-06			586898	3973498	2	6,799	2	0.5 - 0.8	4.0	Mesa Verde Group	No				✓	✓			TR	CE,S	D,S	
S-11-152	S0116	Unnamed			568814	3959738	2	6,281			4.0	N/A	No				✓					CE,D,S		
S-11-153	S0117	Unnamed			569086	3960264	2	6,281			4.0	Mesa Verde Group	No				✓					CE,D,S		
S-11-154	S0118	Bluebird	Tsorva, 6M-11		568527	3960621	2	6,223	2	2 - 2.5	4.0	Mesa Verde Group	Yes	NO3			✓	✓				CE,D,IR,S	D,IR,S	One discharge from claim
S-11-155	S0119	Unnamed, Snowbird	Nu'vatotshba		570054	3962391	2	6,281			4.0	Mesa Verde Group	No				✓	✓				CE,D,IR,S		
S-11-156	S01110	Unnamed	6M-4B		569893	3962665	2	6,289	1	0.2	4.0	Mesa Verde Group	No				✓	✓				CE,D,S	CE,IR,S	
S-11-157	S01111	06K-09S	Baptist Church		572431	3963523	1	6,269	2	<0.01 - 0.5	4.0	Mesa Verde Group	Yes					✓	✓		OT	CE,D	D,S	
S-11-158	S01112	Chili	6K-5S, Tsilvasa		573286	3962529	2	6,365	2	0.1 - 3	4.0	Mesa Verde Group	No				✓	✓				CE,D	D,IR	
S-11-159	S01113	06K-01S			574143	3962438	2	6,270	2	1.5 - 10	4.0	Mesa Verde Group	Yes	NO3			✓	✓				CE,D	D,PS	
S-11-160	S01114	Unnamed			575038	3962861	2	6,371			4.0	Mesa Verde Group	No				✓					CE,D,S		
S-11-161	S01115	06K-02S			575274	3963157	2	6,376	2	3 - 5	4.0	Mesa Verde Group	No				✓	✓				CE,D,S	D,S	
S-11-162	S01116	06K-03S			575376	3963215	2	6,354	3	0.7 - 10	4.0	Mesa Verde Group	Yes	NO3	pH		✓					CE,D		
S-11-164	S01117	06K-14S			575788	3963423	2	6,333	1	0.6	4.0	Mesa Verde Group	No				✓	✓				CE,D	D	
S-11-165	S01118	06K-13S			575898	3963513	2	6,356	1	0.5	4.0	Mesa Verde Group	No				✓	✓				CE,D	D	
S-11-166	S01119	06K-07S			577000	3964541	2	6,401	1	50	4.0	Mesa Verde Group	Yes	TDS			✓	✓				CE,D,S	D,S	

Table D-1. INVENTORY OF CLAIMED SPRINGS ON THE HOPI RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-11-167	S01120	Unnamed			574108	3966159	2	6,403			4.0	N/A	No				✔					CE,D,S		
S-11-168	S01121	06K-308S			574953	3967121	2	6,328	1	0.5	4.0	Mesa Verde Group	Yes	pH, TDS			✔	✔				CE,S	S	
S-11-169	S01122	Bryan Adams	6A-20, Fadairs		577013	3968356	1	6,432	2	<0.01 - 1	4.0	Mesa Verde Group	No					✔	✔			CE,D,S	S	
S-11-170	S01123	06A-21A			576519	3968917	1	6,479	2	0.28 - 2	4.0	Mesa Verde Group	Yes				✔	✔	✔		PI,SP,TR	CE,D,S	D,S	
S-11-171	S01124	06A-24			570685	3967456	2	6,309	1	0.2	4.0	Mesa Verde Group	No					✔				CE,S	S	ADWR did not find spring at claimed location.
S-11-172	S01125	C1-27B			586682	3963192	2	6,607			4.0	N/A	No									CE,D,S		ADWR did not find spring at claimed location.
S-11-173	S01126	07H-27			587343	3962930	2	6,567			4.0	N/A	No				✔					CE,D,S		
S-11-174	S01127	07H-27A			587201	3963552	2	6,706			4.0	N/A	No									CE,D,S		ADWR did not find spring at claimed location.
S-11-255	S01128	Keams Canyon			575206	3963310	2	6,352			4.0	Mesa Verde Group	No				✔					CE,D,S		
S-11-311	S01129	Echo			575792	3972672	2	6,259			4.0	Mesa Verde Group	No				✔					CE,D,S		
S-11-312	S01130	Unnamed			570439	3967750	1	6,289	1	<0.01	4.0	Mesa Verde Group	Yes						✔		PO	CE,D,S		
S-11-313	S01131	Unnamed			570596	3964840	2	6,108			4.0	N/A	No									CE,D		ADWR did not find spring at claimed location.
S-11-314	S01132	Unnamed	6K-10S		571908	3963617	2	6,244	1	2	4.0	Mesa Verde Group	No					✔				CE,D	D	ADWR did not find spring at claimed location.
S-11-315	S01133	Corner			568501	3960533	2	6,223			4.0	N/A	No									CE,D,IR,S		Possible duplicate of claimed spring S-11-154
S-11-338	S01134	Unnamed			575671	3975226	1	6,262	1	<0.01	4.0	N/A	Yes						✔		PO	CE,S		
S-12-175	S0121	Salt Water			511654	3949611	2	5,281			4.0	N/A	No				✔	✔				CE,D,S		ADWR did not find spring at claimed location.
S-12-176	S0122	03M-1	5M-1, Sand		506374	3952722	1	5,225	3	<0.01 - 3	4.0	Alluvial Aquifer	Yes		TDS		✔	✔	✔		PI,SP,TA	CE,D,IR,S	D,S	Claim name believed to be incorrect
S-12-177	S0123	Sand (multiple)			506412	3952482	2	5,203	1	3	4.0	Alluvial Aquifer	Yes		TDS		✔	✔				CE,D,IR,S		
S-12-178	S0124	Unnamed			506130	3953250	2	5,200			4.0	N/A	No									CE,D,IR,S		Claimed coordinates may be wrong, tribal representatives showed ADWR an alternative site; see unclaimed spring S0124A; ADWR did not find spring at claimed location.
S-12-179	S0125	Unnamed			506055	3953342	2	5,208			4.0	N/A	No									CE,D,IR,S		Claimed coordinates may be wrong, tribal representatives showed ADWR an alternative site; see unclaimed spring S0125A; ADWR did not find spring at claimed location.
S-12-180	S0126	Dvas	Drag		503669	3952976	2	5,264			4.0	N/A	No				✔					CE,D,S		
S-12-181	S0127	Whiskey			505500	3955591	2	5,189	2	0.12 - 0.4	4.0	N Aquifer	No				✔					CE,D,S		
S-12-182	S0128	05M-04			505620	3955436	1	5,203	8	<0.01 - 2	4.0	N Aquifer	No				✔	✔	✔			CE,D,S	S	
S-12-183	S0129	Unnamed			511885	3949859	2	5,300			4.0	N/A	No				✔					CE,D,S		
S-12-230	S01210	5M-73			510533	3949451	2	5,235	1	1	4.0	Alluvial Aquifer	No				✔	✔				CE,D,S	S	
S-12-327	S01211	Tishepi			504509	3949560	2	5,104			4.0	N/A	No					✔				CE,D,S		
S-12-328	S01212	Unnamed			504732	3945470	2	4,974			4.0	N/A	No				✔					CE,D,S		
S-12-329	S01213	Unnamed			512023	3950016	2	5,321			4.0	N/A	No				✔					CE,D,S		ADWR did not find spring at claimed location.
S-13-184	S0131	Shonto			523141	3947847	2	5,288	4	0.67 - 2	4.0	N Aquifer	Yes	NO3	SO4, TDS		✔	✔			TR,Re	CE,D,S	S	Multiple springs at this location; unclear if discharge rate is for all or only one; one discharge from claim
S-13-185	S0132	06M-33			525945	3947511	2	5,335	2	0.2 - 0.5	4.0	N Aquifer	No				✔	✔			TR	CE,D,S	D,S	
S-13-186	S0133	06M-32			527208	3949509	2	5,326	1	0.2	4.0	N Aquifer	No				✔	✔			TR	CE,D,S	D,S	
S-13-187	S0134	Burro	Honani, New Pa'utsvi, 6M-31		527736	3950601	1	5,319	19	0.2 - 1	4.0	N Aquifer	Yes				✔	✔	✔		PI,SP,TR	CE,S	CE,S	One discharge from claim
S-13-188	S0135	Unnamed			528024	3950866	1	5,336	1	<0.01	4.0	N/A	Yes		TDS		✔		✔			CE,D,S		Hopi representative indicated there was a structure here in the past
S-13-189	S0136	Coyote	6M-24, Isva		539495	3945376	2	5,275	2	1 - 15	4.0	Alluvial Aquifer	Yes		SO4, TDS	SO4	✔	✔			TR	CE,D,S	D,S	
S-13-190	S0137	Unnamed			541056	3946627	2	5,318			4.0	N/A	No				✔					CE,D,IR,S		
S-13-191	S0138	Little Burro	Matovia, 6M-27A		538897	3947985	2	5,292	1	3	4.0	Alluvial Aquifer	No				✔	✔				CE,S	IR,S	
S-13-249	S0139	6-2B-4-8			530051	3944488	2	5,411			4.0	N/A	No							✔		CE,D,S		ADWR did not find spring at claimed location.
S-13-253	S01310	6M-54			523084	3947988	1	5,277	1	NA	4.0	N Aquifer	Yes		TDS			✔	✔		OT,TA	CE,D,S	S	Unable to obtain discharge measurement; multiple springs at this location; see claimed spring S-13-184.

Table D-1. INVENTORY OF CLAIMED SPRINGS ON THE HOPI RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		CLAIMED QUANTITY (in gpm)	WATER BEARING STRATA	WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			ADWR VERIFICATION OF CLAIM				IMPROVEMENTS[6]	SPRING USE[7]		NOTES
Hopi	United States				Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (in gpm)				Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit[5]	Supporting Evidence from Hopi		Claimed	Other Documented	
S-13-256	S01311	Rock Ledge	6M-114, Phillips Farm		540350	3947209	2	5,301	1	2	4.0	N/A	Yes		SO4, TDS	SO4	✔	✔				CE,D,S		
S-13-334	S01312	Pautsvi	Burro 2		527516	3950561	1	5,310	2	0 - 0.5	4.0	N Aquifer	No					✔	✔			CE,S		ADWR observed spring dry during their visit
S-14-192	S0141	Ponsi Adams	6M-16		561416	3952630	2	6,151	1	0.5	4.0	Colluvial Aquifer	No				✔	✔				CE,D,S	D,S	
S-14-193	S0142	Awat ovi	Awatovi		565196	3953530	1	6,404	2	0 - 2	4.0	N/A	No					✔	✔		PI,TR	CE,D,S	D,S	ADWR observed spring dry during their visit
S-14-194	S0143	Talahogan, 6M-13	6M-15		565423	3954783	1	6,435	3	0.88 - 2	4.0	Mesa Verde Group	Yes				✔	✔	✔		PI,OT,TA	CE,D,IR,S	D,IR,S	Claim name 6M-13 believed incorrect; reported in 1916 that spring may yield 20 gpm if developed; one discharge from claim
S-14-195	S0144	Kalbito #2			551939	3930699	2	5,647			4.0	Colluvial Aquifer	No				✔					CE,D,S		
S-14-196	S0145	Kalbito #1	07H-78		551927	3930946	2	5,650	2	1.5 - 5	4.0	Colluvial Aquifer	No				✔	✔			TR	CE,D,S	D,S	
S-14-197	S0146	Comar	7H-79		552986	3931818	2	5,674	1	8	4.0	Colluvial Aquifer	Yes	NO3	TDS		✔	✔				CE,D,S	CE,D,S	
S-14-198	S0147	Seba Delkai			554004	3937698	2	5,844	1	1	4.0	N/A	No				✔					CE,D,S		Discharge from claim
S-14-199	S0148	Lukai	7H-76		559191	3930937	2	6,333	2	0.2 - 1	4.0	Spring Deposits	Yes		Al, TDS		✔	✔				CE,D,S	S	One discharge from claim
S-14-200	S0149	Wolf Pass			560634	3931314	2	6,356	1	2	4.0	N/A	No				✔					CE,D,S		Topo map indicates a well at claimed site; discharge from claim
S-14-201	S01410	Ram	7H-23		563730	3931785	2	6,353	2	0.1 - 0.5	4.0	Spring Deposits	No				✔	✔				CE,D,S	S	
S-14-202	S01411	Shontah	Shonto-hi, 7H-234		564151	3933976	2	6,271	2	0.5 - 1	4.0	Spring Deposits	No				✔	✔				CE,D,S	S	One discharge from claim
S-14-203	S01412	Bell Butte #2			559323	3935416	2	6,147			4.0	Spring Deposits	No				✔					CE,D,S		Multiple springs at this location; unclear if discharge rate is for all or only one, see claimed spring S-14-247.
S-14-204	S01413	Horse	Kawai'vi, 7H-236		561808	3936549	2	6,316	3	0.5 - 1	4.0	Spring Deposits	No				✔	✔				CE,D,S	S	One discharge from claim
S-14-247	S01414	7H-179	Bell Butte		559291	3935416	2	6,144	2	0.2 - 1.2	4.0	Spring Deposits	Yes				✔	✔				CE,D,S	D,S	Multiple springs at this location; unclear if discharge rate is for all or only one.
S-14-252	S01415	6M-38			550051	3943253	2	5,586	1	1	4.0	N Aquifer	No					✔				CE,D,S		Previously reported as a well; ADWR did not find spring at claimed location.
S-14-330	S01416	Trickle	6M-13, Yatcakpa		564983	3954197	2	6,408	2	0.2 - 1.5	4.0	Mesa Verde Group	No					✔				CE,S	D,IR,S	
S-14-331	S01417	Hail, Lemova			565997	3955454	1	6,407	1	<0.01	4.0	N/A	Yes				✔	✔	✔			CE,D,IR,S	D,IR,S	
S-14-333	S01418	Unnamed	Belle Butte #3		559277	3935438	2	6,124			4.0	Spring Deposits	No				✔					CE,D,S		Multiple springs at this location; unclear if discharge rate is for all or only one, see claimed spring S-14-247.
S-15-332	S0151	Unnamed	Cow		589485	3950372	2	6,323			4.0	N/A	No				✔					CE,D,S		Topo map indicates a water impoundment at claimed site

Notes:

[1] From Cooley (1966), Davis (1963), Ferguson (2004), Forde (1939), Gregory (1916), Kister (1963), McGavock (1966), PWCC (2007), Whiteley (2005), Tetra Tech (2006), Truini (2006 and 2007) and USGS (2007).

[2] Location codes:

1 = ADWR GPS Reading referenced to North American Datum of 1983 (NAD 83)
2 = Claimed location (NAD 27).

[3] Discharge measurements from ADWR (2006), Bills (1992), Cooley (1966), Davis (1963), Farr (1979), Gregory (1916), Hopi claim (2005), Kister (1963), Littin (1995), McGavock (1966), PWCC (2007), Tetra Tech (2006), Truini (2006 & 2007), and USGS (2004).

[4] From ADWR (2005), Bell (1993), Bills (1992), Kister (1963), Littin (1995), Stephens (2001), TerraSpectra (2000) and Wickham (1992).

Al = Aluminum
F= Fluoride
Fe = Iron
Pb = lead
Mn = Manganese
NO3 = Nitrate/Nitrite
pH = Measurement of acidity or alkalinity
SO4 = Sulfate
TDS = Total Dissolved Solids
Se = Selenium

[5] Checked only if ADWR located spring site in the field.

[6] From ADWR (2006), Cooley (1966), Davis (1963), Kister (1963), McGavock (1966) and Tetra Tech (2006),

A = concrete apron
C = cistern
CO = concrete galley
H = hand pump
OT = other
P = power pump
PI = pipe
PO = pool
SP = spring box
Re = reservoir
TR = trough
TA = tank

[7] From ADWR (2006), Cooley (1966), Davis (1963), Farrar (1979), Ferguson (2004), Kister (1963), McGavock (1966), and Whiteley (2005).

CE = ceremonial/cultural
D = domestic
IR = irrigation
PS = public supply
S = stock

TABLE D-2. INVENTORY OF POTENTIALLY UNCLAIMED SPRINGS ON THE HOPI RESERVATION

NAMES / ID NUMBERS[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]			WATER QUALITY DATA[4]	WATER QUALITY EXCEEDENCES[4]			EVIDENCE OF SPRINGS			IMPROVEMENTS[6]	USE[7]	NOTES
	Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (gpm)	WATER BEARING STRATA		Primary	Secondary	Livestock	Topo Map	Published Reports[5]	ADWR Field Visit			
1A-67	514745	4016624	3	5,810	1	0	Mesa Verde Group	No					✓				Previously reported as dry
4M-130	547670	3986229	3	5,884	2	0.1 - 0.2	Mesa Verde Group	No					✓		C,TR	D,S	
4M-138	527139	3997188	3	5,891	1	0.1	Mesa Verde Group	No					✓			D	
5M-5, Sweetwater	505151	3957383	3	5,170	1	2	Alluvial Aquifer	No					✓			D,S	Near Sweetwater well along Dinnebito Wash
6A-21, D.Lalo	576934	3969565	3	6,345	1	0.8	Mesa Verde Group	No					✓		C,TR	D,S	
6H-11	568083	3983325	3	6,302	1	0.2	Mesa Verde Group	No					✓		C,TR	D,S	
6H-23,Hoecevi	545470	3965098	3	6,261	1	3	Mesa Verde Group	No					✓				
6H-24	567035	3965662	3	5,961	1	0.5	N/A	No					✓				PWCC location is different than '1960's reports'
6H-26, Suvebi	567357	3964213	3	6,315	1	0.2	N/A	No					✓				PWCC location is different than '1960's reports'
6H-26A	567437	3963891	3	6,325	1	0.2	N/A	No					✓				PWCC location is different than '1960's reports'
6H-27	564621	3962523	3	5,950	2	0.8 - 1	N/A	Yes		TDS			✓				PWCC location is different than '1960's reports'
6H-27A	565345	3963167	3	6,116	1	0.2	N/A	No					✓				PWCC location is different than '1960's reports'
6K-11S	575888	3964013	3	6,457	1	1.5	Mesa Verde Group	No					✓			D	
6K-12S	575808	3963932	3	6,457	1	8.5	Mesa Verde Group	No					✓			D	Spring may have been claimed as well (W-11-113)
6K-4S	574762	3963369	2	6,457	2	1	Mesa Verde Group	No					✓			S	
6K-8S	572267	3962886	3	6,327	1	0.1	Mesa Verde Group	No					✓			D	
6M-5	563575	3961719	3	6,097	2	0.2	Colluvial Aquifer	Yes		TDS			✓		C,TR	D,S	
6M-59	529374	3972839	3	6,131	2	3	Mesa Verde Group	No					✓				
6M-72A	530822	3975173	3	6,172	1	7.5	N/A	No					✓				
7H-75	Only general location known		4	6,150	2	0.1 - 1	D Aquifer	No							C,TR	D,S	
S01056A	545039	3963608	1	6,318	1	<0.01	N/A	Yes		TDS				✓	PO		ADWR found during its spring survey; water quality sample collected from pond fed by spring
S0124A, Ram Well Project # 5-4-1	506198	3953129	1	5,207	1	0	N/A	No						✓	SP		ADWR found dry during its spring survey
S0125A	506221	3953132	1	5,218	1	NA	N/A	No						✓	PI		
S032A	552546	4016378	1	6,520	1	0	N/A	No						✓	PI	D	ADWR found during its spring survey; Hopi representative has seen locals obtain water here
Cliff	575892	4016532	2	6,466			Mesa Verde Group	Yes				✓	✓				Spring located on Navajo Partitioned Land east of Reservation; Hopi use of spring allowed under
Unnamed 01	482017	4003318	1	5,100			N-Aquifer	No				✓		✓		IR	Spring off reservation in Pasture Canyon; ADWR found during its ag survey (Point 209)
Unnamed 02	481850	4002921	1	5,600	1	<0.01	N-Aquifer	No						✓		IR	Spring off reservation in Pasture Canyon; ADWR found during its ag survey (Point 214)

TABLE D-2. INVENTORY OF POTENTIALLY UNCLAIMED SPRINGS ON THE HOPI RESERVATION

NAMES / ID NUMBERS[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	DISCHARGE DATA[3]		WATER BEARING STRATA	WATER QUALITY DATA[4]	WATER QUALITY EXCEEDENCES[4]			EVIDENCE OF SPRINGS			IMPROVEMENTS[6]	USE[7]	NOTES
	Easting	Northing			No. of Discharge Measurements	Range of Discharge Measurements (gpm)			Primary	Secondary	Livestock	Topo Map	Published Reports[5]	ADWR Field Visit			
Unnamed 03	481815	4002898	1	5,600	1	<0.01	N-Aquifer	No						✓		IR	Spring off reservation in Pasture Canyon; ADWR found during its ag survey (Point 213)
Unnamed 04	481565	4001112	1	5,000	1	<0.01	N-Aquifer	No						✓		IR	ADWR found during its ag survey (Point 229)
Unnamed 05	481578	4000972	1	5,000	1	<0.01	N-Aquifer	No						✓		IR	ADWR found during its ag survey (Point 232)
Unnamed 06	481433	4000744	1	5,000	1	<0.01	N-Aquifer	No						✓		IR	ADWR found during its ag survey (Point 241)
Unnamed 07	478944	3996401	2	4,685			N/A	No				✓					May not be located on Hopi Res.; plots on allotted lands near Moenkopi Village boundary.
Unnamed 08	478879	3996290	2	4,663			N/A	No				✓					May not be located on Hopi Res.; plots on allotted lands near Moenkopi Village boundary.
Unnamed 09	478350	3996200	2	4,706			N/A	No				✓			PO		May not be located on Hopi Res.; plots on allotted lands near Moenkopi Village boundary.
Unnamed 10	481274	3994905	1	4,700			N-Aquifer	No						✓		IR	ADWR found during its ag survey (Point 325)
Unnamed 11	478267	3994848	2	4,717			N/A	No				✓					
Unnamed 12	475647	3993746	2	4,630			N/A	No				✓					Tribe claimed only 1 of 3 springs on topo map; see claimed spring S0411
Unnamed 13	475642	3993726	2	4,627			N/A	No				✓					Tribe claimed only 1 of 3 springs on topo map; see claimed spring S0411
Unnamed 14	486776	3993447	2	5,016			N/A	No				✓					
Unnamed 15	530696	3975362	1	6,230			Mesa Verde Group	No						✓		IR	ADWR found during its ag survey (Point 0)
Unnamed A (4 Sheep)	514587	4002472	2	5,245			N/A	No				✓					Tribe claimed only 1 of 3 springs on topo map; see claimed spring S057
Unnamed B (4 Sheep)	514560	4002424	2	5,241			N/A	No				✓					Tribe claimed only 1 of 3 springs on topo map; see claimed spring S057

Notes:

[1] From ADWR (2006), Davis (1963), Kister (1963), McGavock (1966),PWCC (2007), and USGS topographic maps

[2] Location codes
- 1 = ADWR GPS Location, referenced to North American Datum of 1983 (NAD83)
- 2 = USGS Topo Maps (NAD27)
- 3 = PWCC (NAD 83);
- 4 = Davis (1963), Kister (1963), and McGavock (1966) (NAD27)

[3] Discharge measurements from Hopi claim, ADWR (2006), Davis (1963), Kister (1963), McGavock (1966), and PWCC (2007)

[4] From Bell (1993), Bills (1992), Kister (1963), Stephens (2001), TerraSpectra (2000) and Wickham (1992)
TDS = Total Dissolved Solids

[5] From ADWR (2006), Davis (1963), Gregory (1916), Kister (1963), McGavock (1966), and PWCC (2007)

[6] From ADWR (2006), Davis (1963), Kister (1963), and McGavock (1966)

C = cistern	PO = pond
H = hand pump	SP = spring box
PI = pipe	TR = trough

[7] Use codes
- D = domestic
- IR = irrigation
- S = stock

Figures

Figure D-1. Flower Spring (Hopi Claim S-10-145) fed by Colluvial Aquifer and reported to be used for ceremonial purposes

Figure D-2. Tis Ya Toh Spring (Hopi Claim S-6-75) fed by T Aquifer and previously used for domestic and stock purposes

Figure D-3. Hotevilla Spring (Hopi Claim S-9-92) fed by T Aquifer and reported to be used for ceremonial purposes

Figure D-4. Ruins Spring (Hopi Claim S-9-134) fed by T Aquifer and found used by stock

Figure D-5. Sand Spring (Hopi Claim S-10-105) fed by T Aquifer with unknown use

Figure D-6. Spring 06A-21A (Hopi Claim S-11-170) fed by T Aquifer and found used by stock

Figure D-7. Talahogan Spring (Hopi Claim S-14-194) fed by T Aquifer and used for irrigation

Figure D-8. Badger Spring (Hopi Claim S-5-60) fed by D Aquifer and used for domestic and stock purposes

Figure D-9. Moenkopi School Spring (Hopi Claim S-4-266) fed by N Aquifer and used as a public water supply

Figure D-10. Unnamed Spring (Hopi Claim S-4-298) fed by N Aquifer and found unused

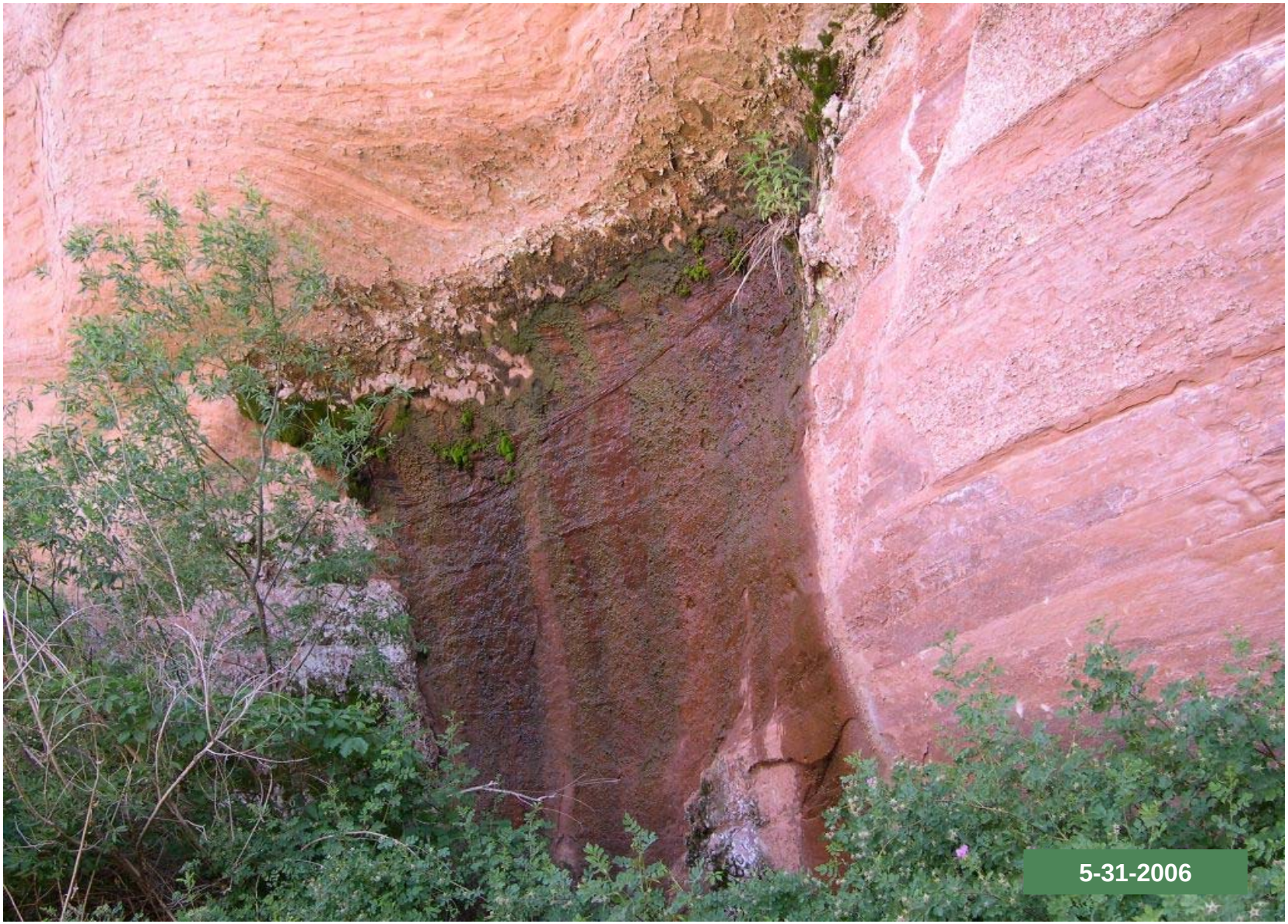

Figure D-11. Unnamed Spring (Hopi Claim S-4-358) fed by N Aquifer and reported to be used for irrigation and ceremonial purposes

Figure D-12. Spring 05M-04 (Hopi Claim S-12-182) fed by N Aquifer and reportedly used by stock

Figure D-13. USGS Gage along Pasture Canyon monitoring flow reported to be used for irrigation and ceremonial purposes from several N aquifer springs

APPENDIX E

Text

APPENDIX E: HOPI WELL INVENTORY

E.1 INTRODUCTION

In its role as technical advisor to the Little Colorado River (LCR) Adjudication Court, the Arizona Department of Water Resources (ADWR) is currently preparing a preliminary Hydrographic Survey Report for the Hopi Indian Reservation (Preliminary Hopi HSR). As requested by the Court, ADWR is verifying Hopi water right claims in the HSR, including the claims to 234 stock, domestic, and municipal wells. This document presents an inventory of water wells on the Reservation and ADWR's verification of the well claims. This information supplements **Tables 7-10** and **7-11**, which are presented in **Chapter 7**.

Two tables are provided here. **Table E-1** lists data for wells claimed by the Hopi Tribe and the United States on the Tribe's behalf. **Table E-2** lists data for other wells that ADWR identified on the Reservation, but were not claimed in the adjudication. The remainder of this document explains the content of the two tables and describes the data sources that ADWR reviewed. Also provided is a brief analysis of the tabulated well data. Photographs of several Hopi wells are presented in **Figures E-1** through **E-12**.

E.2 INVENTORY OF CLAIMED WELLS

Six documents provide information on Hopi well claims:

- *The Hopi Tribe's Amended Statement of Claimant*, filed with the Court on January 29, 2004;
- *United States' Amended Statement of Claimant on Behalf of the Hopi Tribe*, filed with the Court on January 29, 2004;
- *Hopi Indian Reservation Spring, Well and Impoundment Inventory*, a compact disk (CD) prepared by a United States' consultant and sent to ADWR in April 2005 (NRCE, 2005);

- *Hopi 1882 Area Municipal Wells*, a map and supplemental information table submitted by the Hopi Tribe to ADWR on November 14, 2005 (Hopi, 2005);
- *1934 Area Municipal Wells and Spring*, a map and supplemental information table submitted by the Hopi Tribe to ADWR on November 14, 2005 (Hopi, 2005); and
- *Little Colorado River-Hopi Reservation Well, Spring, and Impoundment Verification Information for ADWR*, a letter report and CD prepared by a United States consultant and sent to ADWR via the Hopi in June 2008 (NRCE, 2008).

Both of the statements of claimants (SOCs) filed in January 2004 list 206 stock and domestic wells on the Reservation. The CD sent to ADWR in April 2005 listed these 206 stock and domestic wells plus 3 previously unclaimed wells. The maps and supplemental information that the Hopi tribe submitted to ADWR in November 2005 show 25 other unclaimed wells on the Reservation, for a total of 234 claimed wells. The June 2008 letter report and CD provided additional information for some of the claimed wells that ADWR did not originally verify. For the purposes of the Preliminary Hopi HSR, ADWR considered all of the 234 wells identified by the Hopi and United States as claimed wells.

Table E-1 compiles data that ADWR collected related to the Hopi well claims. The table has a total of 27 columns. Each column, from left to right in the table, is described below.

Claim No. – Each claimed well was given a unique identification number by the Hopi Tribe and a different, unique identification number by the United States. Some of the municipal wells identified by the Hopi Tribe were also given a separate map identification number.

Claim Name – The SOCs, CD, and supplemental information provide names and/or alternative identification numbers for many, but not all of the wells.

Other Names – ADWR identified other, different names for some wells based on various sources including published and unpublished reports. The sources reviewed by ADWR are listed in table footnote 1.

Public Water Supply (PWS) ID – Identifies the PWS for which the well provides water.

Location – Well locations are provided in Universal Transverse Mercator (UTM) "Easting" and "Northing" coordinates.

Location Source Code – Well locations were available from three data sources listed in table footnote 1. These sources include ADWR field Global Positioning System (GPS) readings referenced to the North America Datum of 1983 (NAD83); claimed well locations referenced to NAD27; and, locations that ADWR estimated using U.S. Geological Survey (USGS) topographic maps and supplemental information provided by the Hopi Tribe. If available, ADWR GPS readings are presented in the table. If ADWR did not visit and locate a well site, its claimed location is presented in the table or, if that was not available, then ADWR's estimated well location is provided and referenced to NAD 27.

Approximate Elevation – Well elevations were estimated, in feet above mean sea level, using the UTM coordinates listed in the table and digital elevation model (DEM) data provided by the USGS.

Well and Water Level Data – The next 5 columns in the table present well completion and water level data:

> ***Date of well construction*** – Month and year well was constructed;
>
> ***Well depth*** – Total depth of well, in feet below ground surface (bgs);
>
> ***Static water level depth*** – Most recent measurement of depth to water, in feet;
>
> ***Date static water level measured*** – Month and year of water level measurement; and,
>
> ***Water bearing strata*** – Geologic unit or aquifer system supplying water to the well. Six unique water bearing strata have been identified beneath the Reservation including, from shallowest to deepest, Alluvium, Bidahochi, Mesa Verde Group, D Aquifer, N Aquifer, and C Aquifer.

If known, these data were taken from one or more of the sources listed in table footnote 3.

Claimed Quantity – The quantity of well water, in gpm, listed in the claims and on the CD.

Water Quality Data – This column indicates whether water quality data are available for the well. Data sources are listed in table footnote 4.

Water Quality Exceedences – If water quality data were available, it was compared to EPA primary and secondary drinking water standards and livestock watering standards from four sources (Arizona Department of Environmental Quality, the Hopi Tribe, the Navajo Nation, and the National Academy of Sciences). Parameters that were found to exceed drinking water and livestock watering standards are noted in separate columns in the table. Abbreviations used in the table to designate parameter exceedences are defined in table footnote 4.

ADWR Verification of Well Claims – The next four columns indicate how, and if, ADWR verified the Hopi well claims:

> ***Topo map*** – Claimed well locations were compared to USGS topographic maps which show the location of some wells. If a claimed well appeared on a topographic map, it was noted by a check in the table;
>
> ***Published reports*** – Names and locations for claimed wells were cross referenced to published reports. If a claimed well was listed or shown in a published report, it was noted by a check in the table; and,
>
> ***Field visit*** – In 2006, ADWR attempted to inspect several wells on the Reservation, focusing on those wells that were not verified on topographic maps or through published reports. If ADWR actually found a well in the field, it was noted by a check in the table.
>
> ***Supporting Evidence from Hopi*** – In June 2007, ADWR requested information for several claimed wells which, at that time, it could not verify. A response to this request was received in June 2008 and additional information was incorporated, as appropriate.

Improvements – Well improvements, such as pump installations and water storage and distribution features, are also noted in the table. This information was either found in the 1960s reports or collected during ADWR's 2006 well inspections. Abbreviations used in the table to designate well improvements are defined in table footnote 6.

Well Use – Claimed and other documented well uses are listed in the next two columns. Claimed well uses were indicated in the Hopi claims, on the CD, and the supplemental information that the Hopi provided. Other documented well uses were either indicated in a set of well and spring inventory reports published during the 1960s (1960s reports) or

determined during ADWR's 2006 well inspections. Specified well uses include ceremonial, domestic, irrigation, municipal (public water supply), and stock. Data sources and abbreviations used in the table to designate well use are listed in table footnote 7.

Notes – The last column in **Table E-1** presents miscellaneous information for certain wells that is not otherwise listed in the table. Most notes describe the following well conditions:

- The claimed well name is believed by ADWR to be incorrect based on a comparison with other data sources;
- The claimed well was previously reported as abandoned or, ADWR recently found it to be either abandoned, not in use, or possibly a natural feature/spring; and,
- ADWR either found the well to be flowing, capped, or dry or found one or more other wells at the claimed site.

E.3 ANALYSIS OF CLAIMED WELLS

Based on the data compiled in **Table E-1**, the following conclusions are drawn regarding claimed wells on the Hopi Indian Reservation:

- ADWR was able to verify 220 or about 94% of the 234 claimed Hopi wells through use of topographic maps, published reports, supplemental information from the Hopi, and/or ADWR ground inspection.
- Of the 220 claimed wells that ADWR verified, 13 wells were previously reported as abandoned, 12 wells were previously reported or found by ADWR to be dry, 3 wells were found by ADWR to be natural features, and 1 well (Hopi Claim No. W-8-83) was also claimed as a spring.
- ADWR was unable to verify 14 or about 6% of the 234 claimed Hopi wells through the means of verification that were used. Included are 6 wells that ADWR believes are potential duplicates of other claimed wells.
- 33 or about 14% of the claimed wells are known to be completed in alluvium. Alluvial well depths are reported to range from 3.5 to 200 feet bgs with a median

depth of 97 feet. Depths to water in the alluvial wells are reported to range from 3.1 to 83.0 feet bgs with a median water level depth of 45 feet. Six alluvial wells were reported dry.

- 1 or less than 1% of the claimed wells is known to be completed in the Bidahochi Formation. The one Bidahochi well is reportedly 350 feet deep with a water level depth of 209 feet. This well is also perforated in the Mesa Verde Group.
- 24 or about 10% of the claimed wells are known to be completed in the Mesa Verde Group. Mesa Verde Group well depths are reported to range from 14.5 to 730 feet bgs with a median depth of 413 feet. Depths to water in the Mesa Verde Group wells are reported to range from 10.5 to 492 feet bgs with a median water level depth of 195 feet. One Mesa Verde Group wells was reported dry.
- 48 or about 21% of the claimed wells are known to be completed in the D Aquifer. D Aquifer well depths are reported to range from 190 to 1,367 feet bgs with a median depth of 705 feet. Depths to water in the D Aquifer wells are reported to range from 0 (4 wells were flowing) to 706 feet bgs with a median water level depth of 268 feet. One D Aquifer well was reported dry.
- 61 or about 26% of the claimed wells are known to be completed in the N Aquifer. N Aquifer well depths are reported to range from 5.5 to 1,935 feet bgs with a median depth of 745 feet. Depths to water in the N Aquifer wells are reported to range from 1.7 to 1,021 feet bgs with a median water level depth of 353 feet. Two N Aquifer wells were reported dry.
- 1 or less than 1% of the claimed wells is known to be completed in the C Aquifer. The one C Aquifer well is reportedly 3,215 feet deep with a water level depth of 963 feet.
- It is unknown what water-bearing unit supplies the remaining 66 or about 28% of the claimed wells. Two of these wells were reported dry and another 57 did not have water level data.
- Of the 95 claimed wells with water quality data, 85 or about 89% of these wells exceeded one or more water quality standard. Concentrations of nitrate (21 wells) and arsenic (17 wells) commonly exceeded primary drinking water standards; concentrations of total dissolved solids or TDS (69 wells) and sulfate (41 wells)

commonly exceeded secondary drinking water standards; and, concentrations of fluoride (27 wells) and pH levels (28 wells) commonly exceeded livestock and/or secondary drinking water standards.

- Common parameters of concern by water bearing strata include:
    - Alluvium - nitrate (primary), TDS (secondary), sulfate (secondary and livestock);
    - Mesa Verde Group - TDS (secondary) and sulfate (secondary);
    - D Aquifer – fluoride (primary, secondary and livestock), TDS (secondary), and sulfate (secondary); and,
    - N Aquifer – arsenic (primary), TDS (secondary), and pH (secondary and livestock).
- Most wells were claimed for stock and/or domestic use, including two wells which were also claimed for municipal use. Twenty-six (26) wells were only claimed for municipal use and the use of 2 other claimed wells was unspecified.
- Quantities were claimed for 209 of the 234 wells with a value of 4 gpm for 193 wells and values of 5 to 8 gpm for the other 16 wells. No quantities were claimed for 25 wells.
- One claimed well (W-3-8) is located on the Peabody Western Coal Company (PWCC) leasehold.

E.4 INVENTORY OF UNCLAIMED WELLS

ADWR identified 58 wells on the Hopi Indian Reservation that were not claimed. **Table E-2** compiles the data that ADWR collected for these wells. The table is similar in structure as **Table E-1** and contains 21 columns. Each column, from left to right in the table, is described below:

Names/ID Numbers – Most of the unclaimed wells have unique names and/or identification numbers that ADWR identified in various sources. These sources include published and unpublished reports and are listed in table footnote 1.

Public Water Supply (PWS) ID – Identifies the PWS for which the well provides water.

Location – Well locations are provided in Universal Transverse Mercator (UTM) "Easting" and "Northing" coordinates. Note that UTM coordinates are not available for several (28) wells, however, what locational data are available suggest that these wells were constructed on the Reservation.

Location Source Code – Well locations were available from 9 different data sources that are listed in table footnote 2.

Approximate Elevation – If UTM coordinates were available, well elevations were estimated using DEM data provided by the USGS. However, for 19 unclaimed wells only general locations were known, so elevations provided in the 1960s report had to be used. For 9 other unclaimed wells, no locational information was available, and elevations were listed in the table as not available (N/A).

Well and Water Level Data – The next 5 columns in the table present well completion and water level data:

> ***Date of well construction*** – Month and year well was constructed;
>
> ***Well depth*** – Total depth of well, in feet below ground surface;
>
> ***Static water level depth*** – Most recent measurement of depth to water, in feet;
>
> ***Date static water level measured*** – Month and year of water level measurement; and,
>
> ***Water bearing strata*** – Geologic unit or aquifer system supplying water to the well. Six, unique water bearing strata have been identified beneath the Reservation including, from shallowest to deepest, Alluvium, Bidahochi, Mesa Verde Group, D Aquifer, N Aquifer, and C Aquifer. 'Landslide and Talus' was identified as another local, water bearing strata.

If known, these data were taken from one or more of the sources listed in table footnote 3.

Water Quality Data – This column indicates whether water quality data are available for the well. Data sources are listed in table footnote 4.

Water Quality Exceedences – If water quality data were available, it was compared to EPA primary and secondary drinking water standards and livestock watering standards from four sources (Arizona Department of Environmental Quality, the Hopi Tribe, the Navajo Nation, and the National Academy of Sciences). Parameters that were found to

exceed drinking water and livestock watering standards are noted in separate columns in the table. Abbreviations used in the table to designate parameter exceedences are defined in table footnote 4.

Evidence of Well – The next three columns indicate the evidence that ADWR had of the unclaimed well:

> ***Topo map*** – Unclaimed well appears on a USGS topographic map and was noted by a check in the table;
>
> ***Published reports*** – Unclaimed well was listed or shown in a published report and noted by a check in the table. Reports reviewed are listed in table footnote 1; and
>
> ***ADWR field visit*** – During its field investigation of claimed well sites, ADWR observed the unclaimed well and noted by a check in the table.

Improvements – Well improvements, such as pump installations and water storage and distribution features, are also noted in the table. This information comes from the 1960s reports and Tetra Tech (2006). Abbreviations used in the table to designate well improvements are defined in table footnote 5.

Well Use – Well uses were specified in published reports and include domestic, irrigation, municipal (public water supply), and stock. Data sources and abbreviations used in the table to designate well use are listed in table footnote 6.

Notes – The last column in **Table E-2** presents miscellaneous information for certain wells that are not otherwise listed in the table. Most notes describe one of two well conditions:

- The unclaimed well is located at, or in the vicinity of, a claimed well, but otherwise appears distinct based on the reported well name, available water quality data, etc.; and,
- The well was previously reported as dry and/or abandoned.

E.5 ANALYSIS OF UNCLAIMED WELLS

Based on the data compiled in **Table E-2**, the following conclusions are drawn regarding unclaimed wells on the Hopi Indian Reservation:

- ADWR identified 58 unclaimed wells through field visit, use of topographic maps and published reports and comparison of these data sources to **Table E-1**.
- 9 of the unclaimed wells are located at, or in the vicinity of, a claimed well, but appear distinct based on reported well name, water quality data, etc. 4 of the unclaimed wells were previously reported as dry and/or abandoned.
- 1 or about 2% of the unclaimed wells is known to be completed in landslide and talus deposits. The one well is reportedly 13 feet deep with a water level depth of 7 feet.
- 9 or about 15% of the unclaimed wells are known to be completed in alluvium. Alluvial well depths are reported to range from 3.5 to 191 feet bgs with a median depth of 35 feet. Depths to water in the alluvial wells are reported to range from 1.0 to 43.0 feet bgs with a median water level depth of 11.6 feet.
- 9 or about 16% of the unclaimed wells are known to be completed in the Mesa Verde Group. Mesa Verde Group well depths are reported to range from 6.5 to 950 feet bgs with a median depth of 164 feet. Depths to water in the Mesa Verde Group wells are reported to range from 7.1 to 520 feet bgs with a median water level depth of 132.5 feet. One well was reported dry.
- 12 or about 21% of the unclaimed wells are known to be completed in the D Aquifer. D Aquifer well depths are reported to range from 13.5 to 1,500 feet bgs with a median depth of 720 feet. Depths to water in the D Aquifer wells are reported to range from 0 (1 flowing well) to 594 feet bgs with a median water level depth of 190 feet.
- 7 or about 12% of the unclaimed wells are known to be completed in the N Aquifer. N Aquifer well depths are reported to range from 7 to 1,790 feet bgs with a median depth of 938 feet. Depths to water in the N Aquifer wells are reported to range from 4.7 to 890 feet bgs with a median water level depth of 130 feet.
- It is unknown what water-bearing unit supplies 20 or about 34% of the unclaimed wells.
- Of the 29 unclaimed wells with water quality data, 26 or about 90% of these wells exceeded one or more water quality standard. Concentrations of nitrate (10 wells)

commonly exceeded primary drinking water standards; concentrations of total dissolved solids or TDS (16 wells) and sulfate (11 wells) commonly exceeded secondary drinking water standards; and, concentrations of fluoride (5 wells) and sulfate (4 wells) commonly exceeded livestock water standards.

- Common parameters of concern by water bearing strata include:
  - Alluvium - nitrate (primary), TDS (secondary and livestock), sulfate (secondary and livestock);
  - Mesa Verde Group - nitrate (primary), TDS (secondary); and
  - D Aquifer – fluoride (primary, secondary, and livestock).
  - There were no common parameters of concern for the other water bearing strata supplying unclaimed wells on the Reservation.

E.6 REFERENCES

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Tables

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
1	---	Polacca Day School Well	POLACCA P.D.C. 1		555385	3965128	2	5,768	02/1959	1,250	275	08/1966	N Aquifer	N/A	Yes	As	Fe, pH	pH		✔				M	UN	Not on original claim
1m, W-4-6	W046	Moenkopi Well #1	360718111125701	090400104 Upper Moenkopi	480527	3997500	1	4,850	10/1977	140	73	05/2000	N Aquifer	4	Yes		TDS			✔	✔		TA, PI, P	D, S, M	M	
2	---	Polacca #5	POLACCA USPHS 5, 354845110243801	090400106 Polacca	553314	3963112	2	5,619	06/1986	915	268	01/1998	D Aquifer	N/A	Yes	As	pH, TDS	pH		✔			TA, P, PI	M		Not on original claim
2m	---	Moenkopi Well #2	36071811113040	090400104 Upper Moenkopi	480465	3997265	2	4,854	02/1982	180	69	05/2000	N Aquifer	N/A	Yes	NO3				✔			TA, P, PI	M		Not on original claim
3	---	Polacca #6	POLACCA USPH 6, 354848110243401	090400106 Polacca	553414	3963205	2	5,622	06/1986	915	248	11/1998	D Aquifer	N/A	Yes	As, F, NO3	Cl, F, pH, SO4, TDS	F, pH		✔			TA, P, PI	M		Reportedly inacative/ emergency supply only; not on original claim.
3m	---	Moenkopi Well #3		090400104 Upper Moenkopi	480387	3997245	3	4,856	1991	250	53	05/2000	N Aquifer	N/A	Yes	NO3				✔			TA, P, PI	M		Not on original claim
4, W-10-208	W1027	A-28-18 11AAD, Polacca #8	355058110220401	090400106 Polacca	557089	3967234	1	5,711	1998	1,100	362.4	10/1998	N Aquifer	4	Yes	As, F	F, SO4, TDS	F		✔	✔		TA, P, PI	M	M	Not on original claim
4m	---	Moenkopi "C" Well			481411	3995628	3	4,811	02/2004	3,215	963	11/1998	C Aquifer	N/A	No					✔				M		Reportedly not used due to water quality issues; not on original claim.
5	---	Keams Canyon #2	355023110182701	090400054 Keams Canyon	562603	3966193	2	5,816	05/1970	1,106	485.8	03/2004	N Aquifer	N/A	Yes	As	pH, TDS	pH		✔			TA, P, PI	M		Not on original claim
6	---	Keams Canyon #3	355034110183001	090400054 Keams Canyon	562526	3966531	2	5,803	06/1976	1,090	474	01/2002	N Aquifer	N/A	Yes	As	pH, TDS	pH		✔			TA, P, PI	M		Not on original claim
7	---	Hopi High School #1	HOPI HS #1, 354856110183201	090400395 Hopi High School	562497	3963511	2	5,932	07/1985	925	471	07/1988	N Aquifer	N/A	Yes	As, NO3	Cl, F, pH, TDS			✔			TA, P, PI	M		Reportedly inacative/ emergency supply only; not on original claim.
8	---	Hopi High School #2	HOPI HS #2, 354910110182201	090400395 Hopi High School	562745	3963945	2	5,887	11/1984	918	428	11/1984	N Aquifer	N/A	Yes	As, NO3	Cl, F, pH, TDS	F		✔			TA, P, PI	M		Not on original claim
9	---	Hopi High School #3	HOPI HS #3, 354923110180901	090400395 Hopi High School	563068	3964347	2	5,874	01/1985	1,048	407	07/1985	N Aquifer	N/A	Yes	As	Cl, F, SO4, TDS	F, pH		✔			TA, P, PI	M		Not on original claim
10	---	Shongopovi	SHUNGOPAVI 1	090400259 Shungopavi	542433	3962665	1	6,362	02/1969	1,530	995	03/1970	N Aquifer	N/A	Yes	As	pH	pH		✔	✔		TA, P, PI	M	M	Not on original claim
11	---	Lower Sipaulovi #1	SIPAULOVI	090400107 Lower Sipaulovi	545570	3961128	2	5,763	03/1978	1,033	430	03/2002	N Aquifer	N/A	Yes	As	pH, TDS	pH		✔			TA, P, PI	M		Not on original claim
12	---	Second Mesa Day School 1/ Toreva Well	2ND MESA P.D.C.1, 354750110300101	090400061 BIA Second Mesa	545217	3961373	2	5,783	03/1958	800	335	03/2002	N Aquifer	N/A	Yes	As	pH, TDS	pH		✔			TA, P, PI	M	D, M	Reportedly inactive since 11/2002; not on original claim.
13	---	Second Mesa Day School 2	S M PD&C 2/PM2, 354749110300101	090400061 BIA Second Mesa	545218	3961342	2	5,772	10/1968	1,090	431	03/2002	N Aquifer	N/A	Yes	As	Fe, pH, TDS	pH		✔			TA, P, PI	M		Not on original claim
14	---	Sipaulovi-Mishongnovi Well #1	MISHONGNOVI 1, 354827110293701	090400394 Sipaulovi - Mishongnovi	545814	3962516	2	6,092	03/1978	1,442	777	6/1979	N Aquifer	N/A	Yes	As	pH	pH		✔			TA, P, PI	M		Not on original claim
15	---	Kykotsmovi PM1/Yoyokie Well	355230110365801 Kykotsmovi #1	090400105 Kykotsmovi	534717	3969952	2	5,652	02/1967	995	213.1	01/2007	N Aquifer	N/A	Yes		pH, TDS	pH		✔			TA, P, PI	M		Reportedly inactive since 1993; not on original claim.
16, W-9-99	W0914	06M-302A, Kykotsmovi PM2/Hopi Tribal Well	ORAIBI PM2, 355215110375001 Kykotsmovi #2	090400105 Kykotsmovi	533352	3969482	2	5,779	10/1977	1,155	353	04/2001	N Aquifer	4	Yes	As	pH	pH		✔			TA, P, PI	S, M	IR	Claim name (06M-302A) and claimed use (S), are believed to be incorrect.
17	---	Kykotsmovi PM3/ Hopi Day School Well	ORAIBI PM3, 355236110364501 Kykotsmovi Day School #3	090400105 Kykotsmovi	535042	3970138	2	5,625	08/1968	1,220	246.7	01/2007	N Aquifer	N/A	Yes		pH	pH		✔			TA, P, PI	M		Not on original claim
18	---	Hopi Civic Center/Vet Center	355200110340701, Veterans Memorial Center	090400316 Hopi Veterans Center	539009	3969046	2	5,834	09/1977	1,075	449	1998	N Aquifer	N/A	Yes	As	pH	pH		✔			TA, P, PI	M		Not on original claim
19	---	Hopi Cultural Center	HOPI A & C, 355041110313701	090400260 Hopi Cultural Center	542782	3966629	2	6,301	07/1969	1,600	863	10/1969	N Aquifer	N/A	Yes	As, F, NO3	F, pH, TDS	F, NO3, pH		✔			TA, P, PI	M		Not on original claim
20	---	Hotevilla PM1/Hotevilla School Well 1	HOTEVILLA P.D.C.1, 355518110400301 Hotevilla Day School #1	090400052 BIA Hotevilla	530092	3975521	1	6,350	06/1957	1,757	951	07/1987	N Aquifer	N/A	Yes		pH	pH		✔	✔		TA, P, PI	M	UN	ADWR found an inactive well, over 750 feet from claimed location; not on original claim.
21	---	Hotevilla PDC2/School Well 2	355521110400501 Hotevilla Day School #2	090400052 BIA Hotevilla	530010	3975203	2	6,361	03/1970	1,800	935	11/1978	N Aquifer	N/A	Yes		pH	pH		✔			TA, P, PI	M		Reportedly inactive since 1992; aquifer contamination risk; not properly abandoned; not on original claim.
22	---	Hotevilla Village Well	355526110395601 Hotevilla #1	090400700 Hotevilla	530235	3975358	2	6,347	05/1994	1,800	910	05/1994	N Aquifer	N/A	Yes		pH	pH		✔			TA, P, PI	M		ADWR did not find well at claimed location; not on original claim.
23	---	Hotevilla 2004-1	Hotevilla #2	090400700 Hotevilla	529413	3973966	3	6,405	04/2004	1,935	1,021	04/2004	N Aquifer	N/A	No					✔			TA, P, PI	M		Not on original claim
24	---	Bacavi/Bacabi	BACAVI 1, 355507110395201	090400687 Bacavi	530177	3974993	1	6,370	07/1992	1,780	920	07/1992	N Aquifer	N/A	Yes		pH	pH		✔	✔		TA, P, PI	M	M	Not on original claim
W-1-7	W011				518563	4025669	2	6,206	N/A	N/A	N/A	N/A	N/A	4	No				✔					D, S		
W-1-9	W012	1-A70	JUA-H1, 361710110552401		506765	4015570	1	5,561	07/1981	500	111.8	06/2006	N Aquifer	4	No					✔	✔		TA, W	S	S	Claim name believed to be incorrect.
W-1-10	W013	01A-72	1A-72		502181	4011943	1	5,316	09/1928	5.5	1.7	06/1954	N Aquifer	4	No				✔	✔	✔		TA. PI	D	S	ADWR found an inactive well in need of repair.
W-1-11	W051	SIDE ROCK WELL			501990	4011822	1	5,318	N/A	N/A	1.6	06/2006	N/A	4	Yes				✔		✔		CO, HA	D, S	S	
W-1-207	W014	01 058-15.75X10.07	JUA-N1, 361611110555501		506113	4013666	2	5,465	05/1980	420	210	05/1980	N Aquifer	4	No					✔				N/A		ADWR did not find well at claimed location; not on original claim.
W-2-12	W021	04K-387	4K-387, 361732110334701		539311	4016218	2	6,402	01/1955	945	452.5	01/1955	D Aquifer	4	Yes		F, TDS	F	✔	✔			W, TA, TR	D, S		
W-2-13	W022	04-380	4T-508, 362035110314501		542191	4022083	1	6,389	04/1960	1,000	450	04/1960	D Aquifer	4	Yes		TDS		✔	✔	✔		TA, TR, PO, W	D, S	S	Claim name believed to be incorrect.
W-2-14	W023	02T-503	2T-503		534562	4024825	2	6,291	01/1960	730	359	06/1960	Mesa Verde Group	4	No				✔	✔				D, S	D, S	

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
W-2-205	W024		JUA-H2, 361846110444001		522943	4018471	2	6,379	10/1981	1,210 (error)	N/A	N/A	Mesa Verde Group	4	No					✔				D, S		
W-3-8	W031	SAGE BRUSH WELL	4M-190, Sagebrush Well		555023	4028443	2	6,369	N/A	N/A	N/A	N/A	N/A	4	Yes	Pb	Mn, SO4, TDS		✔	✔				D, S		ADWR did not find well at claimed location; on PWCC leasehold.
W-3-15	W032	OWL WELL	4T-511		549762	4015807	1	6,660	01/1961	645	307.5	02/1961	Mesa Verde Group	4	Yes		pH		✔	✔	✔		T, TR, W	D, S	D, S	
W-3-16	W033	ANGRY MAN WELL			549720	4016470	1	6,681	N/A	N/A	N/A	N/A	N/A	4	Yes		TDS	TDS			✔		TR	D, S	S	
W-3-17	W034	04T-406	4T-406		554334	4019231	2	6,746	11/1960	716	492	12/1960	Mesa Verde Group	4	Yes		SO4, TDS		✔	✔				D, S		
W-3-18	W035	04T-405	4T-405		552432	4025409	2	6,564	06/1959	436	335	06/1959	Mesa Verde Group	4	No				✔	✔				D, S	D, S	
W-3-190	W036		JUA-H3, 362008110264501		549727	4021108	2	6,906	N/A	1,104	N/A	N/A	N/A	4	No							✔		S		ADWR did not find well at claimed location
W-4-1	W041		3K-326		482795	3980930	2	5,340	05/1955	348	269	05/1955	N Aquifer	4	Yes		SO4, TDS		✔				W, TA, TR	D, S	D, S	
W-4-2	W042		3A-27		486955	3982741	2	5,551	04/1935	564	487	10/1953	N Aquifer	4	No				✔	✔			W, TA, TR	D, S	D, S	
W-4-3	W043		3K-325, 360217111122601		481332	3987989	2	5,259	06/1955	450	203	01/2007	N Aquifer	4	No				✔	✔			W, TA, TR	D, S	D, S	
W-4-4	W044		3K-329 360322111045801		492466	3990165	1	5,783	07/1955	845	745	07/1955	N Aquifer	4	No				✔	✔	✔		W, TA, TR.	D, S	D, S	ADWR also found a capped well at this site.
W-4-5	W045		360718111125701		480051	3996772	2	4,908	140	42	N/A	N/A	N/A	4	No							✔		D, S		ADWR found two water tanks, but no well
W-4-196	W047	CRATER WELL			478993	3993330	1	4,922	N/A	N/A	3.6	06/2006	N/A	4	Yes				✔		✔		TR, HA	D, S	D, S	
W-5-19	W052	NEW WELL			508250	4011309	1	5,597	N/A	N/A	N/A	N/A	N/A	4	Yes						✔		TA, W	D, S	S	
W-5-20	W053	NADSAT IT-239	1T-239, 361238110552701		506817	4007104	2	5,506	05/1957	408	282	05/1957	N Aquifer	4	Yes	NO3			✔	✔				D	D, S	
W-5-21	W054	JUA2-7-345			509489	4001142	1	5,087	N/A	N/A	Dry	06//2006	Alluvial Aquifer	4	No						✔		TA	D, S	UN	
W-5-22	W055	BLUE CYN WELL	Blue Canyon Well		511144	4000823	2	5,120	N/A	N/A	N/A	N/A	N/A	4	No				✔					D, S		
W-5-23	W056	2/7/01	JUA-H6 , 360802110571601		504989	3998432	1	5,407	10/1981	525	368	10/1981	N Aquifer	4-8	Yes					✔	✔		PI, TR, TA. W	S	S	
W-5-32	W057	03K-345	3K-345, 360708110541901		508524	3996938	2	5,462	10/1959	520	317	09/1959	N Aquifer	4	No				✔	✔				D	D, S	
W-5-33	W058	03K-330	3K-330, 360441110572801		503802	3992406	2	5,489	05/1955	458	409	06/1955	N Aquifer	4-5	Yes		pH, SO4, TDS	pH	✔	✔			W, TR	D	D, S	
W-5-34	W059	TOH HA HA CLAH			522030	3984330	2	5,842	N/A	N/A	N/A	N/A	N/A	4	No				✔					D, S		
W-5-35	W0310		JUA-H9, 360242110455501		520927	3988831	1	6,087	03/1981	1,305	570	03/1981	D Aquifer	4	No					✔	✔		PI, TA, TR, W	S	S	
W-5-36	W0511	JUA2-8-844B			521483	3991307	1	5,814	N/A	N/A	N/A	N/A	N/A	4-5	No				✔		✔		PI, TR, HA	D, S	UN	
W-5-37	W0512	03K-344	3K-344, 360437110481001		517758	3992300	2	5,891	02/1958	1,047	486	02/1958	D Aquifer	4-8	No				✔	✔				D, S	D, S	
W-5-38	W0513	03M-156	3M-156, 360526110520001		512004	3993800	2	5,601	02/1935	529	316	11/1953	N Aquifer	4	Yes		F, Fe, pH, TDS	F, pH	✔	✔			W, TA, TR.	D, S	D, S	
W-5-39	W0514		JUA-H7, 360701110500707		514848	3997227	1	5,646	10/1981	860	315	10/1958	D Aquifer	4	No					✔	✔		PI, TR, TA, W	D, S	S	
W-6-24	W061	04K-391	4K-391		526265	3999777	2	5,836	03/1959	303	190	03/1959	Mesa Verde Group	4	No				✔	✔				D	D, S	
W-6-25	W062	4T-515			527774	4001400	2	5,844	12/1958	475	240	12/1958	Mesa Verde Group	4	No				✔	✔				D	D, S	
W-6-26	W063	2/11/01	JUA-H8, 360812110360301		535748	3999503	1	6,314	05/1981	725	566	06/2006	D Aquifer	4	Yes					✔	✔		PI, TA, W	D, S	UN	
W-6-27	W064	04K-384	4K-384, 361007110361101		535700	4002491	2	6,122	01/1953	456	348.5	01/1955	Mesa Verde Group	4	No				✔	✔			W, TA, TR.	D	D, S	
W-6-28	W065	BENALLY WELL			543577	4006194	2	6,584	N/A	N/A	N/A	N/A	N/A	4	No				✔					D, S		
W-6-29	W066	JUA2-5-1	JUA-H5, 361328110321801		541957	4009666	1	6,500	06/1981	997	560	06/2006	D Aquifer	4	No						✔		TA	D, S	UN	
W-6-40	W067	H-3-NO-3	354033110341601		533737	3986894	2	5,865	20	N/A	N/A	N/A	N/A	4-5	No							✔		D, S		
W-6-41	W068		4T-393, 360303110424401		525921	3989424	2	6,030	10/1958	1,350	290.6	10/1958	D Aquifer	4	No				✔	✔				D, S	D, S	
W-6-42	W069	HK-383	4K-383 360554110405201		528706	3994701	2	6,074	11/1954	540	333	11/1954	Mesa Verde Group	4	No				✔	✔				D, S	S	Claim name believed to be incorrect.
W-6-43	W0610	04M-138	4M-138, Little Waterfall Well		527328	3996962	1	5,903	N/A	N/A	N/A	N/A	N/A	4	No				✔		✔		CO, PI, H	S	D	
W-6-44	W0611		JUA-H10, 360107110350801		536686	3986210	1	6,057	10/1981	950	310	04/1981	D Aquifer	4	Yes		TDS			✔	✔		PI, TR, TA, W	D, S	S	
W-7-30	W071	NO #	4T-395		551599	4006519	1	6,264	06/1959	150	77	07/1959	Mesa Verde Group	4	Yes		SO4, TDS		✔	✔	✔		P, TA, W	D, S	S	
W-7-31	W072	4T-395			549518	4006595	2	6,452	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Probably duplicate of claimed well W-7-30; ADWR did not find well at claimed location.
W-7-45	W101	06-1H4	6K-308/6-1H4, 360002110274201		548520	3983944	2	5,928	02/1952	530	72.3	02/1952	Mesa Verde Group	4	No				✔	✔			W, TA, TR	D, S	D, S	
W-7-46	W073	04M-89A	4M-89A		550548	3992551	2	5,944	12/1917	139	80	12/1917	Mesa Verde Group	4	Yes		SO4, TDS		✔	✔			P, TA	D, S	S	

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									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
W-7-47	W074	04M-87	4M-87, 360117110214401		557443	3986247	2	6,167	05/1935	250	148.7	10/1954	Mesa Verde Group	4	Yes	NO3			✓	✓			W, TA, TR.	D, S	D, S	
W-7-48	W075	ROUGH NECK WELL	Rough Rock Well		561320	3988200	1	6,440	N/A	N/A	9.3	06/2006	N/A	4	Yes		TDS		✓		✓		H, PI, TR	D, S	S	
W-7-171	W076	4M-89	360443110261801		550115	3992528	2	5,964	03/1935	145	52.9	10/1954	Mesa Verde Group	4	Yes		SO4			✓			W, TA, TR.	D, S	D, S	
W-7-191	W077	TURQUOISE TRAIL			546174	3989773	1	5,967	N/A	N/A	N/A	N/A	N/A	4	No						✓			D, S	UN	ADWR found an inactive, capped well at site.
W-8-49	W081	03M-176A	3M-176A, First Day of Summer Well, 355733110582901		502387	3979156	2	6,049	04/1958	670	560	04/1958	D Aquifer	4	No				✓	✓				D, S	D, S	
W-8-50	W082	DRY WELL			509360	3978514	1	5,916	N/A	N/A	Dry	06/2006	N/A	4	No				✓		✓		CO	D, S	S	ADWR found a dry, hand-dug well at site.
W-8-51	W083	03K-332	3K-332, 355615110551001		507843	3976481	2	5,963	05/1954	866	679.5	05/1955	N Aquifer	4	No					✓			W, TR	D, S	D, S	
W-8-52	W084	BEETSO WELL			506599	3972995	2	5,823	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-8-53	W085	03T-500	3T-500		505511	3979375	2	6,142	12/1957	1,102	920	03/1958	N Aquifer	4	No					✓				S	UN	Reportedly abandoned.
W-8-54	W086	N HOCK SPRING WE	551-1, 355255110545701		507476	3971144	1	5,780	01/1985	721	495	01/1985	N Aquifer	4	Yes					✓	✓		TA, W	S	S	
W-8-55	W087				521707	3977995	2	5,578	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-8-56	W088	H-3WD2			512135	3971279	2	5,639	N/A	N/A	N/A	N/A	N/A	4-5	No				✓					S		
W-8-57	W089	06M-183A	6M-183A		514108	3975626	2	5,895	N/A	9	6.9	04/1955	Alluvial Aquifer	4	Yes	NO3	F, SO4, TDS	F	✓	✓			H, TR	D, S	D, S	
W-8-58	W0810	06H-55	6-3WD1/6H-55, 355648110475501		518168	3977876	2	5,634	12/1944	361	272.6	01/2007	N Aquifer	4	Yes		TDS		✓	✓			W, TR, Re	S	D, S	
W-8-59	W0811		JUA-N14B, 355704110520901		511745	3978488	1	6,163	09/1980	1,367	268	09/1980	D Aquifer	4	Yes					✓	✓		PI ,TA, W	S	S	
W-8-60	W0812	03K-311	3K-311, 355924110485001		516776	3982655	2	5,857	11/1934	745	448.3	01/2007	N Aquifer	4-7	Yes		Cl, F, TDS	F	✓	✓			W, TA, TR.	D, S	D, S	
W-8-75	W0813	SWEET WATER WELL			505851	3957440	2	5,175	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-8-76	W0814	O3A-153	3A-153, 354734110590501		501381	3960765	2	5,442	04/1934	549	198.65	11/1953	N Aquifer	4	No				✓	✓			W, TA, TR.	D, S	D, S	
W-8-77	W0815	MOENKOPI MONUMEN	551-2, 362035110314501		503287	3964801	2	5,710	04/1960	1,000	450	04/1960	D Aquifer	4	No					✓				D, S		Claim name believed to be incorrect; ADWR did not find well at claimed location
W-8-78	W0816	3K-320	355013110560001		506021	3965665	2	5,593	09/1953	502	335.7	10/1953	N Aquifer	4-6	No				✓	✓			W, TA, TR.	D	D, S	
W-8-79	W0817	3M-175	355209110582301		502433	3969238	2	5,742	03/1935	752	507	11/1953	N Aquifer	4	No				✓	✓			W, TA, TR.	D	D, S	
W-8-81	W0818	06M-44	6M-44		516565	3961581	2	5,701	04/1929	9	6	03/1955	Alluvial Aquifer	4	Yes		SO4, TDS			✓			H, TR	D, S	D, S	
W-8-82	W0819	6-11A			517617	3967297	2	5,721	10/1977	800	180	10/1977	N Aquifer	4	No					✓				D, S		
W-8-83	W0820	RED CLAY SPRING	Red Clay Spring		520614	3969516	1	5,699	N/A	7	Dry	06/2006	N/A	4	No				✓		✓			D, S	UN	Well also claimed as a spring S-8-337
W-8-84	W0821	6-3BP3			513030	3957157	1	5,580	N/A	N/A	254.2	05/2006	N/A	4	No						✓			S	UN	
W-8-85	W0822	06K-321	6K-321		515121	3956770	2	5,716	06/1955	520	430	06/1955	D Aquifer	4	Yes		SO4, TDS		✓	✓			W, TR	D, S	D, S	
W-8-86	W0823	06-3BP1	6-3BP1/6K300, 354746110521001		511771	3961121	2	5,391	03/1935	222	90	06/1953	D Aquifer	4	Yes		TDS		✓	✓			W, TA, TR.	S	S	
W-8-87	W0824	06M-50	6M-50		518631	3965362	2	5,595	N/A	7.5	6.9	03/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4	✓	✓			H, TR	D, S	D, S	
W-8-88	W0825	06K-322	6K-322/6-3-ED-2 , 355102110455701		521159	3967135	2	5,836	07/1955	557	486	07/1955	N Aquifer	4	No				✓	✓			W, TR	D, S	D, S	
W-8-89	W0826	06M-174	6M-174, 355218110493301		515725	3969534	2	5,449	03/1935	410	80	03/1935	D Aquifer	4	Yes		F, SO4, TDS	F	✓	✓			W, TA, TR.	D, S	D, S	
W-8-170	W0827	3K-326			500099	3983709	2	5,822	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Probably a duplicate of W-4-1
W-9-61	W091	06M70	6M-70		525460	3975836	2	5,927	N/A	3.5	Dry	04/1955	Alluvial Aquifer	4	Yes	NO3	F, SO4, TDS	F, TDS, SO4		✓				D, S	S	Reportedly a dry, walk-in well.
W-9-62	W092				530569	3976623	2	6,093	N/A	N/A	N/A	N/A	N/A	4	No									D, S		ADWR did not find well at claimed location
W-9-63	W093	06M-60	6-3NO1/6M-60, 355427110350401		537498	3973568	2	5,648	03/1935	180	60.6	04/1955	Alluvial Aquifer	4	No				✓	✓			W, TA, TR.	D	D, S	
W-9-64	W094	06M-64	6M-64, 355903110353601		536654	3982070	2	6,117	03/1935	860	465	03/1935	D Aquifer	4	Yes	F	F, pH, TDS	F	✓	✓			W, TA, TR, Re	D, S	D, S	ADWR did not find well at claimed location
W-9-90	W095	06M-46	6M-46		524105	3957902	2	5,585	N/A	11	7.6	03/1955	Alluvial Aquifer	4	No					✓			H, TR	D, S	D, S	
W-9-91	W096		6-3-504/6-3-S04, 354637110423701		526189	3959057	2	5,593	02/1960	335	246	02/1965	N Aquifer	4	No				✓	✓				S	D, S	
W-9-92	W097	06K-261	6-2C1/6K-2C-1, 354642110391201		531332	3959218	2	5,407	01/1956	150	48	01/1956	N Aquifer	4	No				✓	✓			W, TR	S	D, S	Claim name believed to be incorrect.
W-9-93	W098				523043	3960887	2	5,779	N/A	N/A	N/A	N/A	N/A	4	No				✓					S		
W-9-94	W099	06K-310	6K-310, 354928110415701		527098	3964543	1	5,611	06/1953	340	Dry	06/2006	N Aquifer	4	No				✓	✓	✓		TA, TR, W	D, S	UN	ADWR found a dry well. Depth was estimated between 100 and 120 feet.

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
W-9-95	W0910	06M-52A	6M-52A 354947110380801		532937	3964880	2	5,507	04/1951	450	111	02/1953	D Aquifer	4-7	No				✓	✓			W, TR	S	D, S	
W-9-96	W0911	06-3-503	6-3-503/6-3-S03, 360443110261801		529447	3967376	2	5,680	03/1960	500	282	03/1960	N Aquifer	4	No				✓	✓				S	---	
W-9-97	W0912	FLUTE WELL	Flute Well (Dry)		532033	3969870	1	5,841	N/A	N/A	N/A	N/A	N/A	4	No				✓		✓			D, S	CE	
W-9-98	W0913	06M-302B	6M-302B		534608	3969028	2	5,610	N/A	N/A	N/A	N/A	Alluvial Aquifer	4	Yes	NO3	SO4, TDS			✓			H	D, S	S	Reportedly a walk-in well
W-9-172	W0915	6K-305-95			538192	3957617	2	5,668	05/1951	415	244	05/1951	D Aquifer	4	No					✓			W, TR	D, S	D, S	
W-9-175	W0916	6K-309A			529752	3975172	1	6,409	06/1953	172	134	11/1953	Mesa Verde Group	4	No				✓	✓	✓		TA	D, S	UN	ADWR found unused well, reportedly old water supply for school
W-9-176	W0917	6K-310			527349	3964909	2	5,625	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Duplicate of W-9-94; ADWR did not find well at claimed location
W-9-181	W0918				532510	3971533	1	6,226	N/A	N/A	N/A	N/A	N/A	4	No						✓			D	CE, D	ADWR found only a dry, natural feature in rock
W-9-182	W0919				532523	3971521	1	6,222	N/A	N/A	N/A	N/A	N/A	4	No						✓			D	CE, D	ADWR found only a dry, natural feature in rock
W-9-183	W0920				532514	3971421	1	6,204	N/A	N/A	N/A	N/A	N/A	4	No						✓			D	CE, D	ADWR found only a natural depression, 383' SE of claimed location.
W-9-184	W0921				523590	3971347	2	5,756	N/A	N/A	N/A	N/A	N/A	4	No									D		ADWR did not find well at claimed location
W-9-203	W0922	6M-61	355637110330401		540326	3977558	2	5,723	03/1935	164	80	03/1935	Alluvial Aquifer	4	No					✓			TA, TR.	D, S	UN	Reportedly abandoned
W-9-204	W0923	6-NO1	6-N01		537416	3976764	2	5,748	03/1960	127	Dry	03/1960	Alluvial Aquifer	4	No					✓				D, S	UN	Reportedly abandoned
W-10-65	W102	06-1HS	6M-40, 355425110283401		547204	3973780	1	6,128	06/1935	1,250	550	06/1935	D Aquifer	4	Yes		F, SO4, TDS	F , TDS	✓	✓	✓		W, TA,TR, PI	D, S	S	Claim name believed to be incorrect.
W-10-66	W103	06-1H7	6-1H7/RUIN WELL, 355727110275601		548471	3979168	2	6,169	04/1960	511	402	04/1960	Mesa Verde Group	4	No				✓	✓				D, S	D, S	
W-10-67	W104		6M-43, 355756110251401		552251	3980067	2	6,056	06/1935	216	147.9	06/1935	Mesa Verde Group	4-5	No				✓	✓			W, TA, TR	D, S	D, S	
W-10-68	W105	06M-66	6M-66, 355250110175401		563312	3970727	2	5,782	06/1921	694	Flow	08/1952	D Aquifer	4-8	Yes	F	F, SO4, TDS	F	✓	✓			TR	D, S	D, S	
W-10-69	W106	06-1H6	6-1-H6		556637	3977703	2	5,950	04/1960	216	89	04/1960	Mesa Verde Group	4	No				✓	✓				D, S	D, S	
W-10-70	W107	06K-311	6K-311/6-1P1 355647110164101		565138	3978074	2	6,185	07/1953	413	200	07/1953	Mesa Verde Group	4	Yes		TDS		✓	✓			W, TA, TR	D	D, S	
W-10-71	W108	6H-8	6-1H2/6H-8, 355751110200401		560014	3979978	2	5,950	06/1935	114	49.1	04/1955	Alluvial Aquifer	4	No				✓	✓			W, TA, TR, Re	D, S	D, S	
W-10-100	W109	6K-305-94	6M-19/6-BB1, 354508110265601		549802	3956376	2	5,498	10/1933	145	67.3	04/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4	✓	✓			W, TA, TR	D, S	S	Claim name believed to be incorrect.
W-10-101	W1010	06PW5			545296	3958355	2	5,583	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S	D, S	
W-10-102	W1011	6H-15	6-2PW1/6H-15, 354812110263301		550347	3962079	2	5,598	02/1934	115	49	08/1952	Alluvial Aquifer	4-5	Yes	NO3	TDS		✓	✓			W, TA, Re	D, S	D, S	
W-10-103	W1012	06-1F7	6-1FT/6H-14 354828110240601		554055	3962596	2	5,605	01/1934	135	50	08/1952	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4	✓	✓			W, TA, TR, Re	D, S	D, S	
W-10-104	W1013	6-1H1	6-1H1/6H-16 354958110252701		552009	3965354	2	5,649	02/1934	110	41.4	04/1955	Alluvial Aquifer	4	Yes	NO3	TDS		✓	✓			W, TA, TR, Re	D, S	D, S	
W-10-105	W1014	SUNLIGHT MISSION	SUNLIGHT BAPTIST MISSION		546993	3962713	1	5,866	03/1954	700	450	03/1954	D Aquifer	4	Yes		F, SO4, TDS	F		✓	✓		P, TA	D	D	
W-10-106	W1015	06K-306	6K-306/6-1F4, 354800110200201		560163	3961770	2	5,823	06/1951	710	181	01/1954	D Aquifer	4	Yes		F, SO4, TDS	F	✓	✓			W, Re	D, S	D, S	
W-10-107	W1016	06M-07	6-1F5/6M-7, 354859110222201		556688	3963565	2	5,659	11/1933	100	50.3	04/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	NO3	✓	✓			W, TR	D, S	D, S	
W-10-108	W1017	FLOWING WELL			558790	3964473	2	5,700	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-10-109	W1018	06K-301	6K-301, 355014110221501		556752	3966011	1	5,664	01/1935	610	Flow	06/2006	D Aquifer	4	Yes	F	F, SO4, TDS	F	✓	✓	✓			D, S	UN	ADWR found a well flowing at 0.58 GPM
W-10-110	W1019	06-1F3	KEAMS CYN 1/BIA 1, 354959110155701		566008	3965571	2	5,963	04/1970	1,140	N/A	N/A	N Aquifer	4	No					✓				D, S		Claim name believed to be incorrect; see W-10-111; ADWR did not find well at claimed location.
W-10-111	W1020	06M-03	6M-3/6-1F3, 354958110154601		566496	3965662	1	5,914	12/1933	96	21.45	04/1955	Alluvial Aquifer	4	Yes		SO4, TDS		✓	✓	✓		TA, TR	D, S	UN	ADWR found windmill removed, welded cap, and tank labelled 6-1F3.
W-10-112	W1021		6-F-1A, 6-F-1B, 355024110192301, 355024110192302		562433	3967270	2	5,800	05/1960	61	Dry	05/1960	Alluvial Aquifer	4	No					✓				D	UN	Reportedly abandoned
W-10-174	W1022	6K-308			547914	3983324	2	5,923	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Claim name believed to be incorrect.
W-10-177	W1023	6M-10A	355012110221001		556679	3965785	2	5,675	04/1921	428	76.8	01/1954	D Aquifer	4	Yes	F	F, SO4, TDS	F		✓			WA, TR	D, S	D, M	
W-10-178	W1024	6M-19			549749	3956545	2	5,496	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Probably a duplicate of W-10-100; ADWR did not find well at claimed location
W-10-179	W1025	6M-40			547196	3973781	1	6,129	N/A	N/A	N/A	N/A	N/A	4	No						✓		TA, TR	D, S	UN	
W-10-202	W1026	6H-2-1			553896	3974671	2	5,900	05/1960	691	Dry	05/1960	Mesa Verde Group	4	No					✓				D, S	UN	Reportedly abandoned

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
W-10-209	W1028	06 094 10.78 11.20			548848	3961868	1	5,622	N/A	N/A	N/A	N/A	N/A	4	No						✓			N/A	UN	Hopi guide reported well was never used; arsenic level too high; not on original claim.
W-11-72	W111	4M-79A	Flowing Well		574723	3979004	2	5,994	10/1960	622	Flow	11/1960	D Aquifer	4	No				✓	✓				D	D, S	
W-11-73	W112	06M-80	6M-80, 355450110144701		568037	3974427	2	5,868	06/1921	473	Flow	08/1952	D Aquifer	4-6	Yes		F, SO4, TDS	F	✓	✓			TA, Re	D, S	S	
W-11-74	W113		JUA-H4, 355836110075501		578262	3981508	2	6,056	10/1981	225	103	10/1981	Mesa Verde Group	4	No					✓				S		ADWR did not find well at claimed location
W-11-113	W114	06K-12S			576136	3963742	2	6,421	N/A	N/A	N/A	N/A	N/A	4	No									D		Claim name believed to be incorrect. Claim name is for a spring.
W-11-114	W115	61F9	6-1-F-9		568411	3956654	2	6,522	12/1959	301	212	02/1960	Mesa Verde Group	4-8	No					✓				D	D, S	
W-11-115	W116	61F8			576324	3962326	2	6,533	N/A	N/A	N/A	N/A	N/A	4	No				✓					D		
W-11-116	W117	6-1F10			576160	3965679	2	6,609	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-11-117	W118	06M-02	6M-2/6-172, 355008110135501		569369	3965782	2	6,023	12/1933	96	29	07/1952	Alluvial Aquifer	4	No					✓			W, TA	D	D, S	ADWR did not find well at claimed location
W-11-118	W119	06K-320	6K-320/6-1P2, 355152110123401		571311	3969252	1	6,362	08/1954	1,032	310	04/1955	D Aquifer	4	Yes		pH, SO4, TDS		✓	✓	✓		W, PI, TA, TR	S	S	
W-11-119	W1110	07K-37			587197	3964430	2	6,710	N/A	N/A	N/A	N/A	N/A	4	No									D		ADWR did not find well at claimed location
W-11-120	W1111	NO. 19	JUA-N19, 354730110020001		587605	3961229	2	6,752	N/A	1,080	562	04/1980	D Aquifer	4	No				✓	✓				D, S		
W-11-121	W1112	07H-26	7H-26, Lamb Well		584669	3963666	2	6,484	N/A	14.5	10.5	06/1954	Mesa Verde Group	4	No				✓	✓			H, TR, A	D, S	D, S	
W-11-122	W1113	07K-364	7K-364, 354910110061801		580851	3964092	2	6,643	03/1955	350	209	03/1955	Bidahochi Aquifer, Mesa Verde Group	4	No					✓			W, TR	D	D, S	
W-11-123	W1114	07K-371	7K-371 354945110003301		589497	3965254	2	6,795	02/1957	956	706	02/1957	D Aquifer	4-5	No				✓	✓				D	D, S	
W-11-124	W1115	#18 (A8)			585111	3967337	2	6,803	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-11-125	W1116	#20			585310	3970142	2	6,903	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-11-185	W1117	07H-37	7H-37, 354519110020501		587266	3957014	2	6,713	12/1934	915	589	04/1955	D Aquifer	4	Yes		SO4, TDS		✓	✓			W, TA, TR	D, S	D, S	
W-11-186	W1118				573883	3962454	2	6,230	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-11-192	W1119	JUA-N17	355345110042001		583732	3972592	2	6,889	07/1980	630	328	07/1980	Mesa Verde Group	4	No					✓				D, S		ADWR did not find well at claimed location
W-11-200	W1120	4T-385	355548110121801		571714	3976276	2	5,961	11/1954	1,017	472	11/1954	D Aquifer	4	No					✓				D, S		
W-11-201	W1121	7P-387	355700110074701		578485	3978552	2	6,181	04/1960	460	77	04/1960	D Aquifer	4	No				✓	✓				D, S	D	
W-12-80	W121	06M-45	6M-45		521096	3956046	2	5,595	N/A	13	11.5	03/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4		✓			H, TR, TA	D, S	D, S	
W-12-126	W122	SAND VALLEY WELL			501081	3945698	2	5,042	N/A	N/A	N/A	N/A	N/A	4	No				✓					S		
W-12-127	W123	RED ROCK SP/WELL	Redrock Spring Well		511366	3942829	2	5,099	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-12-128	W124	WIDE DAM #5-11			508811	3943099	1	5,167	N/A	N/A	N/A	N/A	N/A	4	No						✓		D	D, S		ADWR found a ditch and what appeared to be a contact spring
W-12-130	W125	SALT	Salt Well		511635	3949834	1	5,294	N/A	N/A	N/A	N/A	N/A	4	No						✓		SSB, H, UF	D, S	UN	ADWR found well located in a wash.
W-12-131	W126	SWEET WTR WELL			511611	3949679	2	5,281	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		ADWR did not find well at claimed location
W-12-132	W127	06K-310(N)	6K-310(N)		515458	3949195	2	5,578	08/1953	405	284	08/1953	N Aquifer	4	No					✓			W, TA, TR	D	D, S	
W-12-133	W128	06H-79	6-3S2/6H-79, 354137110475401		518246	3949785	2	5,481	10/1936	275	147.5	11/1954	N Aquifer	4	No				✓	✓			W, Re	D	D, S	
W-12-169	W129	3A-154	354408110585301		501699	3954357	2	5,450	06/1936	1,010	N/A	N/A	N Aquifer	4	No					✓				D, S	UN	Reportedly abandoned
W-12-187	W1210				514186	3946288	2	5,517	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-12-195	W1211	5T-500			513163	3949114	2	5,474	01/1960	324	190	01/1960	N Aquifer	4	No					✓				D, S	UN	Reportedly abandoned; ADWR did not find well at claimed location
W-13-129	W131	UNNAMED			544351	3946396	2	5,410	N/A	N/A	N/A	N/A	N/A	4	No									D, S		ADWR did not find well at claimed location
W-13-134	W132				523644	3942682	2	5,196	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-13-135	W133	06-2B6	6-2B6, 354322110390601		531505	3953057	2	5,439	02/1956	217	83	02/1956	N Aquifer	4	No				✓	✓				S		
W-13-136	W134	6K-307			522778	3955925	2	5,518	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		Claim name incorrect; see W-13-173
W-13-137	W135	06M-27	6M-27		538725	3948144	1	5,295	N/A	11	6.5	06/2006	Alluvial Aquifer	4	Yes				✓	✓	✓		PI, TA, SPP	S	UN	
W-13-138	W136	06-2B3			538813	3947849	2	5,295	N/A	N/A	N/A	N/A	N/A	4	No									S		
W-13-139	W137	06-2B3			538813	3947849	2	5,295	N/A	N/A	N/A	N/A	N/A	4	No									S		Duplicate of claimed well W-13-138

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
									Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level															
Hopi	United States				Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	
W-13-140	W138	06M-26	6-2PW3/6M-26, 354029110311901		543227	3948031	1	5,354	11/1933	107	31.7	04/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4	✓	✓	✓		PI, TA, TR, W	D	D, S	
W-13-141	W139	06K-304	6-2B2/6K-304 354227110362701		535506	3951378	2	5,491	11/1939	200	142.8	05/1999	D Aquifer	4-5	No				✓	✓			W, TA, TR	D	D, S	
W-13-142	W1310	06M-29	6M-29/6-2PW2, 354336110311601		543311	3953538	2	5,444	03/1934	200	83	02/1955	Alluvial Aquifer	4	Yes	NO3	SO4, TDS	SO4		✓			W, TA, TR, Re	D	S	
W-13-143	W1311	6K-305-9?			536745	3955727	2	5,630	N/A	N/A	N/A	N/A	N/A	4	No									D, S		ADWR did not find well at claimed location
W-13-159	W1312	05K-330	5K-322, 353335110404601		529051	3934965	2	5,081	07/1958	82	50	07/1958	Alluvial Aquifer	4	Yes		TDS		✓	✓				S	D, S	Claim name believed to be incorrect.
W-13-160	W1313	5K-300			526358	3934895	2	5,155	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		Claim name believed to be incorrect.
W-13-161	W1314		5K-300, 353356110445501		522773	3935594	2	5,193	1940	1,250	Dry	N/A	N Aquifer	4	No				✓	✓				D, S		Reportedly abandoned
W-13-162	W1315	06-2B5	6-2B5, 353519110383901		532247	3938209	2	5,142	03/1956	125	52	03/1956	Alluvial Aquifer	4	No				✓	✓				D, S		
W-13-163	W1316	06M-25	6M-25, 353722110360001		536250	3941934	2	5,203	11/1933	97	48.5	04/1955	Alluvial Aquifer	4	Yes		Cl, SO4, TDS	TDS, SO4	✓	✓			W, TA, TR	D, S	S	
W-13-173	W1317	6K-307	354445110445501		522766	3955557	2	5,521	N/A	N/A	N/A	N/A	N/A	4	Yes		F, SO4, TDS	F, SO4	✓	✓				D, S		
W-13-188	W1318				539646	3955881	1	5,605	N/A	N/A	N/A	N/A	N/A	4	Yes				✓		✓		TA, W	D, S	UN	
W-13-197	W1319	6K-312	354042110391501		531291	3948117	2	5,534	07/1953	145	91.5	11/1953	N Aquifer	4	No					✓				D, S	Un	Reportedly abandoned; ADWR did not find well at claimed location
W-14-144	W141	06M-17A	6-1T1/6M-17		556499	3951537	2	5,843	N/A	148	54	04/1955	Alluvial Aquifer	4	No					✓			W, TA, TR, Re	D	D, S	Claim name believed to be incorrect.
W-14-145	W142	06-2BB1	6K-305-94		554705	3955512	2	5,745	12/1943	445	43	04/1955	D Aquifer	4	Yes		F, SO4, TDS	F	✓	✓			W, TA	D, S	D, S	ADWR did not find well at claimed location
W-14-146	W143	07T-504	7T-504, 353919110200101		560373	3945689	2	5,718	03/1958	92	Dry	03/1958	Alluvial Aquifer	4	No				✓	✓				D, S		
W-14-147	W144				566603	3942899	1	5,799	N/A	N/A	103.7	06/2006	N/A	4	No				✓		✓		TA, TR, PO, W	D, S	S	
W-14-148	W145	06H-13	6H-13/6-1T3, 353959110203701		559404	3946935	2	5,713	09/1933	350	127.2	05/1999	D Aquifer	4	Yes	F	F, pH, TDS	F, pH	✓	✓			W, TA, TR Re	D, S	D, S	
W-14-149	W146	06H-12	6H-12/6-1T2, 354058110182501		562740	3948787	2	5,783	09/1933	194	61.8	05/1999	D Aquifer	4	Yes	F	F, SO4, TDS	F	✓	✓			W, TA, TR	D	D, S	
W-14-150	W147	07H-5A2	7H-5A-2 354021110160201		566569	3947644	2	5,910	11/1976	690	166	11/1976	D Aquifer	4	No				✓	✓				D, S		
W-14-151	W148	06-1T4	6-1-T4, 354420110200901		560047	3954992	2	6,023	02/1960	700	361.4	02/1960	N Aquifer	4	No					✓				D	D, S	
W-14-164	W149				552015	3930713	2	5,659	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-14-165	W1410	07K-315	7K-315		552945	3931870	2	5,682	N/A	5.5	3.1	07/1952	Alluvial Aquifer	4	Yes	NO3	F, TDS		✓	✓			H, TR	D, S	D, S	
W-14-166	W1411	07K-302	7K-302, Frank Nez well		551035	3934890	2	5,567	N/A	16.5	12.5	07/1952	Alluvial Aquifer	4	Yes	NO3	TDS		✓	✓			H, TR	D, S	D, S	
W-14-167	W1412	CROWN POINT WELL			556007	3936141	2	5,789	N/A	N/A	N/A	N/A	N/A	4	No				✓					D, S		
W-14-193	W1413	6-GS-113-1	6GS-113-1, 354131110241801		553832	3949708	2	5,744	01/1955	190	118.5	04/1955	D Aquifer	4	No					✓				D, S	UN	Reportedly abandoned, insufficient yield
W-14-194	W1414	6-GS-113-2	6GS-113-2 354002110271101		549216	3947077	1	5,639	07/1954	360	223.5	04/1955	N Aquifer	4	No					✓	✓			D, S	UN	
W-14-198	W1415	7T-503			553703	3941248	2	5,526	03/1958	124	50	03/1958	Alluvial Aquifer	4	No					✓				D, S	UN	Reportedly abandoned
W-14-199	W1416	7T-502	353627110231301		555473	3940387	2	5,560	03/1958	103	40	03/1958	Alluvial Aquifer	4	No					✓				D, S	UN	Reportedly abandoned, salty water
W-14-206	W1417	7T-501	353624110214901		557641	3940311	2	5,591	02/1958	325	Dry	02/1958	D Aquifer	4	No					✓				D, S	UN	Reportedly abandoned, dry
W-15-152	W151	7K-355	353805110135001		569621	3943745	1	5,885	08/1952	536	74.3	06/2006	D Aquifer	4	Yes		F, SO4, TDS	F	✓	✓	✓		W, TA, TR, PI	D	S	
W-15-153	W152	07H-55	7H-55		572896	3949253	2	6,122	N/A	11	Dry	06/1954	Alluvial Aquifer	4	No				✓	✓			H, TR	D, S	UN	
W-15-154	W153		7H-5A-4, 354122110103901		574349	3949338	2	6,261	11/1976	674	306	11/1967	D Aquifer	4	Yes		SO4, TDS		✓	✓				D, S		
W-15-155	W154	07H-5A7A1	7H-5A-7A, 354039110013201		588211	3948353	2	6,286	05/1978	565	147	05/1978	D Aquifer	4	No				✓	✓				S		Claim name believed to be incorrect.
W-15-156	W155	NEW WELL			579952	3949117	1	6,690	N/A	N/A	164.9	06/2006	N/A	4	Yes						✓		PI, TA, TR, W	D, S	S	
W-15-157	W156	07T-519	7T-519		585500	3950308	2	6,641	12/1958	760	635	12/1958	D Aquifer	4	Yes	F	F, TDS	F	✓	✓				D	D, S	
W-15-158	W157	GLORIA LABAN	7H-5A-6, 354435110020301		587348	3955554	2	6,723	11/1976	1,030	626.8	05/1999	D Aquifer	4	No				✓	✓				D, S		
W-15-168	W158	7T-520	353620110092301		576412	3940328	2	6,012	12/1958	485	120	12/1958	D Aquifer	4	Yes		TDS		✓	✓				D	D, S	
W-15-180	W159	7K-355			569882	3943315	2	5,887	N/A	N/A	N/A	N/A	N/A	4	No									D, S		Duplicate of W-15-152; ADWR did not find well at claimed location
W-15-189	W1510	7K-363	353909110095701		575508	3945503	2	6,110	04/1955	772	235	04/1955	D Aquifer	4	Yes		F, SO4, TDS	F	✓	✓			W, TR	S	D, S	

Notes:

[1] From Cooley (1966), Davis (1963), Dulaney (1989), McCabe (2006), McGavock (1966), Stephens (2001), Tetra Tech (2006), and Wickham (1992)

[2] Location codes

TABLE E-1. INVENTORY OF CLAIMED WELLS ON THE HOPI INDIAN RESERVATION

CLAIM NO.		CLAIM NAME	OTHER NAMES [1]	PUBLIC WATER SUPPLY (PWS) ID [1]	LOCATION		LOCATION SOURCE CODE [2]	APPROXIMATE ELEVATION (in feet)	Well and Water Level Data [3]					Claimed Quantity (in gpm)	Water Quality Data	Water Quality Exceedences [4]			ADWR VERIFICATION OF WELL CLAIMS				IMPROVEMENTS [6]	WELL USE[7]		NOTES
											Static Water Level															
Hopi	United States				Easting	Northing			Date Well Constructed (month/year)	Well Depth (feet)	Depth (feet)	Date Measured (month/year)	Water Bearing Strata			Primary	Secondary	Livestock	Topo Map	Published Reports	Field Visit [5]	Supporting Evidence from Hopi		Claimed	Other Documented	

1 = ADWR GPS Reading, referenced to North American Datum of 1983 (NAD 83)
2 = Claimed location, if not found or surveyed by ADWR (NAD 27)
3 = ADWR estimated location from USGS topo maps and Hopi Tribe (2005a,b) (NAD 27)

[3]From ADWR (2006), Cooley (1966), Hopi Tribe (2005a,b), McCabe (2006), Tetra Tech (2006), and USGS (2007a,b)

[4]From ADWR (2006), Davis (1963), Dulaney (1989), Farrar (1980), Griffith (1993), Kister (1963), Stephens (2001), Tetra Tech (2006), Truini (2003, 2006 &2007), USGS (2007a,b),Whickham (1992), and Zhu (2000)

As	=	Arsenic	NO3	=	Nitrate/Nitrite
Cl	=	Chloride	Pb	=	Lead
F	=	Fluoride	pH	=	Measurement of acidity or alkalinity
Fe	=	Iron	SO4	=	Sulfate
Mn	=	Manganese	TDS	=	Total Desolved Solids

[5]Checked only if ADWR located well site in the field.

[6]From Davis (1963), Cooley (1966), McGavock (1966), and Tetra Tech (2006)

A	=	concrete apron	Re	=	earthen reservoir
CO	=	concrete gallery	SSB	=	subsurface box
D	=	ditch	SSP	=	solar powered pump
H	=	hand pump	TA	=	tank
P	=	power pump	TR	=	trough
PI	=	piping	UF	=	unidentified feature
PO	=	pond	W	=	windmill

[7]From Davis (1963), Hopi Claim, Hopi Tribe (2005a,b), and McGavock (1966),

CE	=	ceremonial
D	=	domestic
IR	=	irrigation
M	=	municipal (public water supply)
S	=	stock
UN	=	unknown/unused

TABLE E-2. INVENTORY OF POTENTIALLY UNCLAIMED WELLS ON THE HOPI INDIAN RESERVATION

NAMES/ ID NUMBERS[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	WELL AND WATER LEVEL DATA[3]					WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			EVIDENCE OF WELL			IMPROVEMENTS[5]	WELL USE[6]	NOTES
						Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level												
		Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata		Primary	Secondary	Livestock	Topo Map	Published Reports	ADWR Field Visit			
1A-64A		Only general location known		5	6,000	N/A	3.5	1	06/1954	Alluvial Aquifer	No					✔			D	Reportedly a temporary, hand dug well
1A-65		Only general location known		5	5,800	N/A	4	3	07/1954	Alluvial Aquifer	No					✔			D, S	Reportedly a temporary, hand dug well
3A-26		Only general location known		5	5,200	N/A	7	4.7	07/1954	N Aquifer	No					✔		H, TR	D, S	
3M-170		Only general location known		5	6,060	N/A	8.5	8	07/1951	Mesa Verde Group	Yes					✔				
3M-176		502305	3979219	5, 6	6,068	01/1945	1,016	832	01/1945	N Aquifer	No					✔		W, TA, TR	D, S	Reportedly deepened in January 1945; located near claimed well W-8-49
3M-180		Only general location known		5	5,850	N/A	13.5	12.9	07/1954	D Aquifer	No					✔		TR	UN	
3T-500A		Only general location known		5	6,040	12/1957	1,230	890	01/1960	N Aquifer	No					✔			D, S	Howell Mesa Chapter House well; located near abandoned, claimed well W-8-53
4R-27, 360351110074101, 04 073-07.14X12.86		578525	3991217	6	6,185	N/A	688	162	06/1935	D Aquifer	No					✔				
4K-377		Only general location known		5	6,210	05/1945	315	254	10/1954	Mesa Verde Group	No					✔		W, TA, TR, Re	D, S	
4K-380, 362152110204801		558613	4024369	5	5,407	03/1952	950	520	02/1952	Mesa Verde Group	Yes		TDS			✔		W	D, S	
4M-79		574776	3979013	5	5,996	09/1921	570	N/A	N/A	N/A	Yes		F, SO4	F		✔			D, S	Located at site of claimed well W-11-72, but different water quality
4M-123		Only general location known		5	6,150	05/1932	14	9.5	10/1954	Mesa Verde Group	No					✔		H, TR	D, S	
4M-123A		Only general location known		5	6,150	N/A	7	Dry	10/1954	Mesa Verde Group	No					✔			UN	Reportedly abandoned
6H-32, Toreva P. S.		544553	3961216	5, 6	5,610	10/1936	938	170	10/1936	N Aquifer	No					✔			M	
6K-2, 354829110111601		531332	3959218	5, 6	5,407	06/1946	106	34	06/1934	Alluvial Aquifer	Yes		TDS			✔		P, TA	M	
6K-85		573082	3962730	5, 6	6,325	N/A	1,288	200	N/A	D Aquifer	No					✔			UN	Located near unclaimed well KEAMS PDC 2; reportedly insufficient yield
6K-300, 6-3BP1/6K-300, 354746110521001		511797	3961143	5, 6	5,393	03/1935	222	90	06/1953	N Aquifer	Yes		TDS			✔		W, TA, TR	S	
6K-302, Oraibi D. S.		534528	3970106	5, 6	5,685	05/1935	715	45	05/1935	D Aquifer	No					✔		P, TA	UN	
6K-303		550746	3962605	5, 6	5,605	10/1938	115	43	01/1950	Alluvial Aquifer	No					✔		P, TA	M	
6K-309B		Only general location known		5	6,410	06/1953	164	115	11/1953	Mesa Verde Group	No					✔			D	Located at Hotevilla School, near claimed well W-9-175
6K-323		Only general location known		5	6,490	06/1955	230	150	06/1955	Mesa Verde Group	Yes	NO3				✔		W, TR	D, S	
6M-1		571996	3963584	5, 6	5,644	12/1933	115	18	12/1933	Alluvial Aquifer	No					✔		P, TA	D, S	Located near unclaimed well KEAMS PDC 1
6M-4A		Only general location known		5	6,270	N/A	8.5	7.1	04/1955	Mesa Verde Group	Yes	NO3	TDS			✔		H, TR	D, S	
6M-10, 6-1F6/6M-10, 355013110221301		556874	3965846	5, 6	5,654	12/1933	191	20	12/1933	Alluvial Aquifer	Yes	NO3	SO4, TDS	TDS, SO4		✔				Located at site of claimed well W-9-95
6M-35, 354647110390201		531583	3959373	5, 6	5,407	03/1934	133	45	03/1934	N Aquifer	No					✔		W, TA, TR	UN	Reportedly dry on April 7, 1955; abandoned
6M-52		Only general location known		5	5,480	04/1934	435	110	08/1952	D Aquifer	No					✔				Reportedly abandoned; located at site of claimed well W-9-95

TABLE E-2. INVENTORY OF POTENTIALLY UNCLAIMED WELLS ON THE HOPI INDIAN RESERVATION

NAMES/ ID NUMBERS[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	WELL AND WATER LEVEL DATA[3]					WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			EVIDENCE OF WELL			IMPROVEMENTS[5]	WELL USE[6]	NOTES
						Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level												
		Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata		Primary	Secondary	Livestock	Topo Map	Published Reports	ADWR Field Visit			
6M-66, 355250110175401, 04-073-11 .53X10.95		563337	3970728	5, 6	5,654	07/1921	694	Flow	08/1952	D Aquifer	Yes		F, pH, S04	F, pH		✓		TR	D, S	
6M-183		Only general location known		5	5,880	N/A	13	7	04/1955	Landslide and Talus	Yes	NO3	F, SO4, TDS	F		✓		H, TR	D, S	Located at site of claimed well W-8-57
6P-400		572145	3963770	5, 6	6,254	08/1960	803	157	08/1960	D Aquifer	No					✓			D, M	Reportedly the Keams Canyon Trading Post well
6-1-H7/RUIN WELL, 355727110275601		548220	3979166	5, 6	5,700	04/1960	511	402	04/1960	Mesa Verde Group	No					✓			D, S	
6-3-ED3		Only general location known		5	5,630	03/1960	385	259	03/1960	D Aquifer	No					✓				
7H-81, Seba Dalkai School well		Only general location known		5	5,570	N/A	35	11	09/1951	Alluvial Aquifer	Yes					✓		P, TA	M	
7H-81A		Only general location known		5	5,560	10/1931	9	7.9	07/1951	Alluvial Aquifer	Yes	NO3	TDS			✓		H, TR	D, S	
7H-180		Only general location known		5	5,780	N/A	50	47	07/1951	D Aquifer	Yes					✓		W, TR, TA	D, S	
7H-218		Only general location known		5	5,360	N/A	18	11.6	06/1954	Alluvial Aquifer	Yes	NO3	SO4, TDS			✓		W, TR, TA	D, S	
ATW-2 - Oraibi Wash		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		SO4, TDS	TDS, S04		✓				
ATW-3 - Oraibi Wash		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		SO4, TDS	TDS, S04		✓				
ATW-4 - Wepo Wash		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Pb	SO4, TDS			✓				
ATW-6 - Polacca Wash		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Pb	SO4, TDS	SO4		✓				
DW; at Sand Spring		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		SO4, TDS			✓				
Hotevilla/Bacavi Community School #1		No locational data		2, 3	N/A	N/A	N/A	N/A	N/A	N/A	Yes	NO3	pH	pH		✓				Name similar to claimed wells 21, 22, 23, and 24 but water quality is different
HOTVL COMMUNITY/PM3		522186	3981989	6	5,823	03/1970	1,790	N/A	N/A	N Aquifer	No					✓				Located approximately 6 miles NW of Hotevilla
KCC-MW2, Kykotsmovi Community Center		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		TDS			✓				Claimed well W-9-99 reported separately with different water quality
Keams Canyon #S3815		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		SO4, TDS			✓				Water quality does not match other Keams Canyon wells
KEAMS CYN2		562541	3966193	1	5,685	N/A	N/A	N/A	N/A	N/A	Yes	F, N03	Cl, Fe, Mn			✓				
KEAMS CYN3		562464	3966531	1	5,411	N/A	N/A	N/A	N/A	N/A	Yes	F, N03	Cl, Fe, Mn			✓				
KEAMS PDC 1		570968	3963453	6	5,700	12/1958	1500	256	02/1959	D Aquifer	No					✓			D, IR	Located over 6 miles East of claimed Keams Canyon BIA wells; water quality different from other Keams Canyon wells
KEAMS PDC 2		573282	3962825	6	6,204	01/1960	950	190	01/1961	D Aquifer	No					✓			D, M	Located over 6 miles East of claimed Keams Canyon BIA wells; water quality different from other Keams Canyon wells
KTC-MW1 Kykotsmovi Tribal Center		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes		TDS			✓				Claimed well 15 reported separately with different water quality
Moenkopi/Susungua Spg		No locational data		3	N/A	N/A	N/A	N/A	N/A	N/A	Yes	NO3				✓				
No name 1		483638	3995026	8	4,667	N/A	N/A	N/A	N/A	N/A	No						✓			Inactive

TABLE E-2. INVENTORY OF POTENTIALLY UNCLAIMED WELLS ON THE HOPI INDIAN RESERVATION

NAMES/ ID NUMBERS[1]	PUBLIC WATER SUPPLY (PWS) ID[1]	LOCATION		LOCATION SOURCE CODE[2]	APPROXIMATE ELEVATION (in feet)	WELL AND WATER LEVEL DATA[3]					WATER QUALITY DATA	WATER QUALITY EXCEEDENCES[4]			EVIDENCE OF WELL			IMPROVEMENTS[5]	WELL USE[6]	NOTES
						Date Well Constructed (month/year)	Well Depth (feet)	Static Water Level												
		Easting	Northing					Depth (feet)	Date Measured (month/year)	Water Bearing Strata		Primary	Secondary	Livestock	Topo Map	Published Reports	ADWR Field Visit			
No name 2		492466	3990165	8	5,783	N/A	N/A	N/A	N/A	N/A	No						✔			Capped well, close to claimed well W-4-4
No name 3		554219	3968445	8	5,727	N/A	12	N/A	N/A	N/A	No						✔			Capped well
No name 4		559414	3967090	8	5,717	N/A	12	N/A	N/A	N/A	No						✔			Artesian
No name 5		552414	3964899	7	5,644	N/A	N/A	N/A	N/A	N/A	No				✔	✔				Located 1/2 mi. SE of claimed well W-10-104
No name 6		516326	3943107	7	5,193	N/A	N/A	N/A	N/A	N/A	No				✔	✔				
Spider Mound #1	090400688 Spider Mound	581790	3950043	9	6,653	05/1994	865	540	12//1994	D Aquifer	Yes	F	F	F		✔		P, PI, TA	M	
Spider Mound #2	090400688 Spider Mound	584089	3950454	9	6,626	2003	725	594	02/2003	D Aquifer	Yes	F	F	F		✔		P, PI, TA	M	Not connected to PWS; fluoride exceedes MCL
USPHS ORAI		534654	3969952	1	5,654	N/A	N/A	N/A	N/A	N/A	Yes		pH	pH		✔				

Notes:

[1] From Cooley (1966), Davis (1963), Dulaney (1989), McCabe (2006), McGavock (1966), Stephens (2001), Tetra Tech (2006), and Wickham (1992).

[2] Location codes

1 = Dulaney (1989), referenced to North American Datum of 1927 (NAD 27)
2 = Griffith (1993) NAD 27
3 = Stephens (2001) NAD 27
4 = Whickham (1992) NAD 27
5 = Cooley (1966), Davis (1963), McGavock (1966) NAD 27
6 = McCabe (2006) NAD 27
7 = USGS topo maps NAD 83
8 = ADWR GPS Reading NAD 83
9 = Tetra Tech, (2006) (NAD83)

[3] From Cooley (1966), Davis (1963), McCabe (2006), McGavock (1966), and Tetra Tech (2006)

[4] From Dulaney (1989), Griffith (1993), Kister (1963), Stephens (2001), Tetra Tech (2006), and Whickham (1992)

Cl = Chloride
F = Fluoride
Fe = Iron
Mn = Manganese
NO3 = Nitrate/Nitrite
Pb = Lead
pH = Measurement of acidity or alkalinity
SO4 = Sulfate
TDS = Total Dissolved Solids

[5] From Davis (1963), Cooley (1966), McGavock (1966), and Tetra Tech (2006)

H = hand pump
P = power pump
PI = piping
Re = earthen reservoir
TA = tank
W = windmill

[6] From Davis (1963), Cooley (1966), McGavock (1966), and Tetra Tech (2006)

D = domestic
IR = irrigation
M = municipal (public water supply)
S = stock
UN = unknown/unused

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APPENDIX F

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES

Consumptive Use of Crops Grown on the Hopi Indian Reservation

Patrick M. Crowley
Adjudications and Technical Support
Statewide Planning

December 2007

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LIST OF ACRONYMS

ADWR – Arizona Department of Water Resources

ASCE – American Society of Civil Engineers

CU – Consumptive Use

DRY – Precipitation-irrigated land

ET – Evapotranspiration

ET_c – Evapotranspiration of actual crop

ET_o – Evapotranspiration of reference crop

FAO-24 – Food and Agriculture Organization Irrigation and Drainage Paper No. 24

FAO-56 – Food and Agriculture Organization Irrigation and Drainage Paper No. 56

f_c – Fraction of soil surface that is covered by vegetation

GDD – Growing Degree Days

h – Plant height

HI – Harvest Index

K_c – Crop Coefficient

met – Meteorological

MOVE.1 – Method of Variance Extension, Type 1

NDI – Non-deficit Irrigated land

R_s – Solar Radiation [MJ m^{-2} day^{-1}]

SID – Supplemental Irrigation Demand

T_{dew} – Dew point temperature

T_{max} – Maximum air temperature

T_{min} – Minimum air temperature

LIST OF ACRONYMS (Continued)

WRCC – Western Regional Climate Center

Text

CHAPTER 1
INTRODUCTION

1.1 BACKGROUND

The scope and purpose of this report is to estimate the consumptive use (CU) of crops grown on the Hopi Indian Reservation in Northeastern Arizona. The final version of this report will be used in preparation of a Hydrographic Survey Report (HSR) of the Hopi Indian Reservation. The HSR is being prepared as part of the Little Colorado River General Stream Adjudication. Pursuant to A.R.S. section 45-256 (B) the purpose of the HSR is to report the "proposed water right attributes. . .and to examine the physical factors of water use and supply and land arability" (Ballinger, 2002). This report attempts to quantify the consumptive use of crops that have been historically and currently grown on the Reservation.

1.2 HOPI AGRICULTURE

The Hopi Indians or their ancestors have continuously farmed the south central Colorado Plateau since the first millennium A.D. (Ferguson, 2004; Prevost, et. al, 1984; Thompson, 1947.) Agriculture is an integral part of Hopi religious beliefs and social customs and much of their cultural identity revolves around ceremonies and gatherings based on the agricultural season. The Reservation is located at a high elevation, with an arid environment characterized by relatively high winds, low precipitation, and cold winter temperatures. As a result, the Hopis have developed a sophisticated, innovative, and sustainable system of agriculture that has been adapted to the harshness of their environment. In addition, the plants selected for farming on the Reservation have been adapted to the specific environmental conditions present.

The growing season for Hopi agriculture is determined by temperature and restricted by the late spring and the early fall frosts. Fields planted early in the season are vulnerable to the threat of a crop-killing freeze in late spring, just as crops planted later in the season are at risk to an early fall frost. Based on data from the Western Regional Climate Center (WRCC), there is still a 50% chance at Keams Canyon that nightly temperatures will drop below freezing by May 20th and a 50% chance that the first frost will occur here before October 10th. At Tuba City, there is still a 50% chance of frost by April 28th and a 50% chance that the first frost will occur before October 23rd (WRRC, 2007).

Prevailing winds blow from the southwest and affect much of the topography on the Reservation. Aeolian sand is carried from the Little Colorado River basin and deposited on the Reservation on the lee side of four main mesas or in the form of sand dunes elsewhere on the Reservation (Ferguson, 2004). Strong winds have an adverse effect upon crop production by decreasing plant moisture, removing the topsoil from cleared fields, and causing physical destruction during initial stages of plant development. Strong winds are common on the Reservation during the spring planting months and large tracts of land on the Reservation are susceptible to soil blowing, "and intensive measures are needed to control erosion if the soils are cultivated" (NRCS, 1996:50).

The majority of soils located on the Hopi Indian Reservation have potential for crop production (NRCS, 1996:49). The soils on the Reservation are also described as generally deep and arable, but that "crop production is limited by the climate and the lack of irrigation water" (NRCS, 1996:51). The soils in which a large majority of Hopi fields are located contain a surface layer of fine sand, 4-6 inches deep, below which a clay-sand loam is found (Bradfield, 1971). The upper sandy layer acts as a mulch that protects the underlying loamy soil from the harsh, dry winds that are prevalent on the Reservation. Even during long periods between precipitation events, the loamy soil is able to retain a significant amount of moisture.

Despite the limiting effects of wind and soil condition, the major limiting factor to crop production is the availability of water (Manolescu, 1995; NRCS, 1996; Prevost et. al, 1984). The majority of fields in production on the Reservation are watered via dryland farming techniques (Moon, 2004). Also referred to as "ak-chin," this type of farming is directly dependent upon the rainfall as a source of irrigation. However, Hopi farmers also refer to dryland fields as those which "receive water from a combination of precipitation and surface run-off directed to crops by earthen berms, check dams, and other constructed features" (Ferguson, 2004).

Mean annual rainfall recorded at Tuba City, AZ is 6.39 in and 10.08 in Keams Canyon, AZ (WRRC 2007). Due to the relatively low rainfall, fields are strategically placed by the Hopi in areas that maximize runoff and stored soil moisture. Typical geomorphological locations of cropped fields include, but are not limited to, the base of sand dunes, within arroyos, floodplains adjacent to streams, gentle slopes below rock escarpments, and alluvial fans. Field placement is not limited to topographical characteristics, but is also dependent on identifying which species of native vegetation are growing, and to what density, in a given area (Ferguson, 2004; Dominguez and Kolm 2005). This strategy is used to identify areas that typically have a higher soil moisture content, as reflected by the condition of the natural plant community. Gardens are often located closer to homes as many of these are watered by hand, or irrigated with water from springs. Images of Hopi fields are presented in **Figures 1** through **6**.

Hopis have addressed the environmental conditions that limit crop production with "unusually intensive management practices" (Prevost, et. al, 1984). Hopi crops are traditionally planted by hand, with practices that minimize top soil erosion, and take full advantage of underlying, retained soil moisture. Many of these planting practices are unique to the area and have been adapted through centuries in order to protect the plant from harsh environmental and biological conditions while still preserving the field for future planting seasons. The fields are also typically small, usually between 1 and 5 acres which mitigates to some degree the amount of wind erosion upon the topsoil.

Seedlings of Hopi corn (the main crop on the reservation) also contain special adaptations which aid in their survival. These adaptations include an elongated *mesocotyl* (the portion of the plant that reaches from the seed to the surface of the soil) and the development of a single, deeply thrusting *radicle* (the embryonic root of the plant which

grows downward into the soil), in place of a number of seminal roots (Bradfield, 1971). Both of these adaptations provide corn plants with access to a critical source of moisture. The elongated mesocotyl is typically 10-12 inches in length, as opposed to the 4-6 inches found on ordinary varieties. This elongation allows a Hopi farmer to plant corn seeds much deeper into the soil than an ordinary variety would be planted. This deeper planting helps in three main ways; it provides access to the deep, moist subsoil, it adds extra protection from crop-killing freezes, and it allows the seed to be planted past the depth of many seed-eating insects. The development of a single radicle allows the plant to access deeper, stored moisture throughout critical stages in the plant's development.

Through the use of water conservation techniques, innovative farming practices, and adapted crop varieties, the Hopi Indians have continually farmed the area of Black Mesa for the past millennium. In a region prone to extreme seasonal and yearly climatic variability, ditch irrigation is not generally feasible and the Hopi have developed farming methods that rely heavily upon rainfall and stored soil moisture. This, in turn, results in a variety of crops grown, farming methods employed, filed locations, and overall crop production.

1.3 CONSUMPTIVE USE ESTIMATIONS

Measuring the CU of crops requires the measurement of two hydrologic processes; evaporation, and transpiration. The combination of these two processes is known as evapotranspiration (ET). The methods used by ADWR to estimate ET are based upon an energy balance equation. ET is driven by energy in the form of sensible heat or radiant energy. Estimating the fluxes of energy at the vegetation and soil surface provide an estimate of how much water is evapotranspirated through this energy exchange. The variables that are entered into the energy balance equation are commonly, as they are in this report, derived from meteorological data which include air temperature and humidity, solar radiation, and wind speed. Additional measurements can be taken to reduce error in the ET estimates, or to produce a more precise time-scale of ET rates (i.e. mm/hour vs. mm/month). These measurements include, but are not limited to, atmospheric pressure, soil moisture, soil salinity, soil water availability, crop yield, crop canopy cover, and leaf area index. These additional data can be estimated or calculated when no measurements exist, however, this likely increases the error of overall ET estimates and decreases the precision of reliable time-scale for such estimates.

Typical units for reporting ET estimates are mm/day, mm/month, or in the case of this report, ft/yr. This one dimensional unit is then multiplied by the total amount of acreage under cultivation to quantify a total volume of water in which the agricultural lands use in a given season or year. The units of volume presented in this report are in acre-ft.

1.4 RANGE OF VALUES

It is the intent of ADWR in this report to calculate a reasonable range of values that bracket the actual CU rates for crops on the Reservation. Calculation of a range of CU values is largely a result of the dearth of available meteorological data. As explained

later in more detail, less meteorological data increases the errors associated with ET estimates. A range of values attempts to address these potential errors by providing an upper and lower confidence interval on the CU estimates. This report also attempts to quantify water use by crops on the Reservation not limited by water availability (non-deficit irrigation). These estimates were made based on analysis of current and historical literature and ADWR makes no assumptions as to the feasibility nor practicality of implementing a system of Hopi agriculture which is not limited by water availability. Current and historical consumptive use is represented in this report as "DRY" and non-deficit irrigation is represented as "NDI". An upper and a lower confidence interval are calculated for both categories.

1.5 CROP MIXING

Agricultural fields on the Hopi Reservation are in continual rotation and the area under cultivation for any specific crop will vary from year to year. However, literature reviewed and ADWR's own field survey, suggest a typical percentage of crops under cultivation in any given year. To estimate CU for all Hopi fields, crop mixing values were needed to quantify the percentage of cultivated fields attributed to each cultigen.

The predominant crop cultivated on the Reservation is corn (*Zea mays*). The varieties of corn grown on the Reservation have been selected and adapted over time to suit the environmental conditions of the area, and differ in phenology from typical Western varieties. These adaptations, namely the elongated mesocotyl and the single, deep radicle, provide the crop with a drought tolerance that is essential to cultivation under given conditions. The Hopi corn plant itself is relatively short, rarely exceeding 5 feet in height, producing slender cobs, usually five to seven inches long (Ferguson 2004:23). In a 1989 survey, 17 different corn varieties were identified to be grown by various Hopi households on the Reservation (Soleri and Smith 1995). Despite these numerous varieties, ADWR has classified all types as 'corn' for purposes of ET calculations. From a compilation of available literature on the subject, combined with ADWR's own field survey, the composited average percentage of agricultural fields that contain a corn crop is estimated to be 81.2% (ADWR, 2005; BIA, 1924-1955; Ellis, 1974; Ferguson, 2004). **Table 1** lists the mixing for crops grown on the Reservation.

The second most prevalent field crop on the Reservation is beans (*Phaseolus spp.*) of which more than 30 varieties have been historically grown on the Reservation, although the recent number of varieties is closer to 20 (Ferguson 2004:25). As with corn, for the purpose of this study all varieties are generally classified as 'beans.' **Table 1** lists the percentage of Hopi fields dedicated to growing beans is estimated at 6.7%

The Hopi Reservation has had fruit trees in cultivation since the arrival of the Spaniards in the seventeenth century (Ferguson 2004:27). These include peaches (*Prunus persica*), pears (*Pyrus communis*), apples (*Malus sylvestris*), and apricots (*Prunus armeniaca*). All of these trees were combined into one category referred to in this report as 'orchards.' The percentage of agricultural lands on the Reservation dedicated to orchards is estimated at 8.1% (**Table 1**).

Together, the three crops listed above account for an estimated 96% of Hopi cultivated fields. The remaining crops are referred to as garden varieties as they are frequently grown in small gardens, usually close in proximity to the home, and often close to a perennial source of water. ADWR has split the remaining 4% of fields between melons (2.3%) and squash/other (1.7%), according to current and historic literature and field work (ADWR 2005; BIA, 1924-1955; Ellis, 1974; Ferguson, 2004). This is thought to be representative of the garden varieties that are currently grown on the Reservation and not necessarily dry-land farmed.

CHAPTER 2:
CALCULATING EVAPOTRANSPIRATION

The Reference Evapotranspiration (ET_o) method was used in this report to calculate the CU of crops grown on the Hopi Reservation. This method involves first calculating the ET for a reference surface, assuming an unlimited supply of water, based on meteorological conditions of a given environment. ET_o is a climatic parameter that represents the evaporative ability of the atmosphere under ambient climatic conditions. Because ET_o does not take into account crop characteristics, nor soil factors, it can be computed based on weather data alone. Once ET_o is computed, it is multiplied by a crop coefficient (K_c) which incorporates the various physical and physiological differences between the reference surface and the crop of interest. K_c can also be adjusted to account for varying degrees of environmental stress that can inhibit the growth and crop evapotranspiration (ET_c) of a plant. These stressors can include soil moisture depletion, high soil salinity, disease, poor plant stands, varying crop covers, etc. The final equation to compute ET_c of a desired crop is:

$$ET_o * K_c = ET_c$$

The Food and Agriculture Organization of the United Nation's Irrigation and Drainage Paper 24 (FAO-24), defines crop water requirements developed using the Reference ET method as "the depth of water needed to meet the water loss through evapotranspiration (ET_c) of a disease-free crop, growing in large fields under non-restricting soil conditions including soil water fertility and achieving full production potential under the given growing environment" (Doorenbus and Pruitt 1977). ET_c values representative of these conditions are designated here as non-deficit irrigation, or "NDI" values. Adjustments were made to the method to better represent actual ET_c values on the Hopi Reservation, and are characterized by "DRY" values. The methods and data that were used to compute ET_o, K_c, and ET_c are outlined in the following sections.

2.1 REFERENCE EVAPOTRANSPIRATION (ET_o)

Data to compute ET_o came from the Western Regional Climate Center (WRCC, 2007) and the Hopi Tribe Water Resources Program (HWRP, 2007). A map of the meteorological stations used is presented in **Figure 2.1**. The following sections outline the models and methods employed to calculate ET_o.

2.1.1 ETo MODELS

Three models were selected to compute ET_o. These models are the FAO-24 Blaney-Criddle, 1985 Hargreaves-Samani, and FAO-56 Modified Penman-Monteith. Each model uses the $ET_o * K_c$ approach and use grass as the reference surface with an assumed crop height of 0.12 m, a fixed surface resistance of 70 s m^{-1} and an albedo of 0.23. These models were selected based on the availability of climatic data, general acceptance of the

models, and applicability of the models to the local environment. All three models are also based on the conservation of energy approach and use climate data readily available on the Hopi Reservation. The only available data for the Reservation with an acceptable period of record (>10 years) to compute ET_o is air temperature. As explained below, the models selected are either temperature-based, or have approaches to compute or estimate missing climate data.

2.1.1.1 FAO-24 BLANEY-CRIDDLE

The FAO-24 Blaney-Criddle model was selected based on its general familiarity and historic use by the scientific community. This method is suggested in FAO-24 for areas where available climate data is restricted to air temperature (Doorenbus and Pruitt, 1977). However, in the more recent FAO-56 publication, Allen et. al (1998:18) state that "temperature methods remain empirical and require local calibration in order to achieve satisfactory results." The FAO-24 Blaney-Criddle model was used in this study for comparative purposes only and no final consumptive use estimates were calculated based on the ET_o values generated by this model.

2.1.1.2 1985 HARGREAVES-SAMANI

The 1985 Hargreaves-Samani model is another temperature-based method to compute ET_o. However, FAO-56 expresses greater confidence in this method over other temperature-based models as it "has shown reasonable ET_o results with global validity" (Allen et. al 1998:18). Although it is generally accepted as the most reliable temperature-based model, it has been shown to be less accurate in windy areas, without local calibration. The Hargreaves and other temperature-based models have been shown to underestimate ET values in areas of high winds and therefore also require a local calibration (Gavilan et. al, 2006: Martinez-Cob and Tejero-Juste, 2003; Jensen et. al, 1997). ADWR determined that there was not enough climate data available to perform such calibration and the uniqueness of the local geography made it difficult to incorporate data from other locations. Similar to the FAO-24 Blaney-Criddle model, the 1985 Hargreaves-Samani model was used for comparitive purposes only and no final CU estimates were calculated based on the ET_o values generated by this model.

2.1.1.3 FAO-56 PENMAN-MONTEITH

The consensus from a May,1990 FAO meeting was to recommend the FAO Penman-Monteith model as the standard method to define and compute ET_o (Allen et. al, 1998: 15). As a result, this model has become a standard by which other models are compared. Data input requirements for this model are air temperature, solar radiation, air humidity, and wind speed. FAO-56 outlines methods to estimate humidity, wind speed, and radiation data when it is not readily available, as was the case in this study. As indicated earlier, the only available climate data from the Hopi Reservation with a satisfactory

period of record was air temperature. FAO-56 strongly recommends that climate data be estimated when it is not available, as opposed to using temperature-based models (Allen et. al 1998).

Nevertheless, the Hargreaves-Samani model has been shown to provide relatively accurate results when compared to FAO-56 Penman-Monteith, and lysimeter data (Allen et. al 1998; Diodato and Bellochi 2007). However, the area of the Hopi Reservation is prone to high winds, and evidence suggests an underestimation of ET_o values are computed when not incorporating wind into the ET (Gavilan et. al 2006; Jensen et. al 1997; Martinez-Cob and Tejero-Juste 2003). ADWR deemed it necessary to use a model which incorporated wind as a function of ET_o since it plays a substantial role in the ET process, especially in areas prone to high winds, such as the Hopi Reservation. The alternative would be to calibrate a temperature-based model against areas with more available weather, including wind speed. However, due to the unique topography of the area, this approach was not pursued.

In summary, based on current international consensus and appropriateness to the reference environment, the FAO-56 Peman-Monteith model was selected to calculate final ET_o values for the Hopi Indian Reservation.

2.1.1.4 OTHER MODELS

Other methods to calculating ET_o include the water balance approach, pan evaporation, and radiation-based models such as the Jensen-Haise and the Priestly-Taylor methods. The water balance approach requires lysimeter measurements and monitoring which is beyond the scope of this report. Pan evaporation measurement techniques have been shown to have relatively large error due to the poor relationship between evaporation rates of open water and crop ET. According to Allen et. al, (1998) "radiation methods show good results in humid climates. . .but performance in arid conditions is erratic and tends to underestimate evapotranspiration." ADWR did not, therefore, incorporate radiation-based models into the ET estimates for the Hopi Reservation.

2.1.2 SOFTWARE USED TO CALCULATE ETo

The three ET_o models described above were run using the Ref-ET program developed at the University of Idaho by Allen (2003) to estimate ET_o for a reference crop (grass) of standard uniform specifications. Data entered into the program were compiled by ADWR from the WRCC (2007) and the HWRP (2007). Program default values were used when data was not readily available. Default values were developed or approved by the FAO-56.

2.1.3 CLIMATE VARIABLES

Estimating ET_o with the FAO-56 Penmen-Monteith method requires air temperature, wind speed, air humidity, and solar radiation data. Of all these climate variables, only air temperature had a satisfactory period of record (>10 years) on the Hopi Reservation. All other climate variables were estimated, interpolated, or calculated via methods explained later in this report. To assess a reasonable range of ET_c values for the Reservation, some climate variables were calculated via different means to provide upper and lower limits of NDI and DRY. All ET_o calculations were based on monthly climate averages.

2.1.3.1 AIR TEMPERATURE (T)

Air temperature data were taken from two meteorological stations reported by the Western Regional Climate Center (WRCC) – Tuba City, AZ (Station 028792) and Keams Canyon, AZ (Station 024586). The period of record for the Tuba City station is 1900 – 2006 and the period of record for the Keams Canyon station is 1948 – 2006. The location of these stations is shown in **Figure 2.1**. Other meteorological stations on the Reservation were available online from the WRCC website, however, these had limited periods of record and were therefore not incorporated into this report. Also, off-Reservation meteorological stations were not used due to differences in elevation, geography, and topography.

Monthly averages of minimum (T_{min}) and maximum temperatures (T_{max}) were reported on the WRCC website for both met stations (WRRC 2007). Data for the entire period of record were utilized, except for those months with more than five days of record missing.

2.1.3.2 SOLAR RADIATION (Rs)

Solar radiation was estimated from the difference between maximum and minimum air temperatures. The amount of cloud cover on any given day affects this difference. Little to no cloud cover results in a relatively large difference between T_{max} and T_{min} because incoming solar radiation is not impeded (higher T_{max}) as it is when cloud cover exists, nor is outgoing longwave radiation impeded at night (lower T_{min}). Greater cloud cover absorbs much of this radiation and results in smaller differences between T_{max} and T_{min}.

The Hargreaves radiation formula was used to estimate radiation data for the Hopi Reservation. An adjustment coefficient of 0.16 was used, as recommended for interior, non-coastal regions. The procedure followed is outlined on page 60 of FAO-56 (Allen et. al, 1998).

2.1.3.3 WIND SPEED (u)

The Hopi Reservation is known as an area of relatively high winds and has been qualitatively described as such by various sources (NRCS 1996, Prevost et. al 1984, Ferguson 2004). Wind is a major contributor to plant ET and ADWR judged that any ET model that did not incorporate wind speed into the model would be at risk of underestimating plant ET. Allen et al. (1998) suggest methods to estimate missing wind data in FAO-56 (see **Table 2.10** in this report). As indicated in this table, "moderate to strong wind" is quantified as 3-5 m/s measured at 2 m above the ground. This estimate is consistent with data from 8 Hopi met stations on the Reservation where wind speeds during the growing season average 3.32 m/s (corrected to a measurement height of 2 m) between the years 2003 and 2007 (Hopi 2007). The location of met stations owned and operated by the HWRP is shown in **Figure 2.1**. For ET_o estimates, a wind speed of 3m/s was assumed for a lower bound of 3 m/s and 5 m/s was assumed for an upper bound.

2.1.3.4 DEW POINT TEMPERATURE (T_{dew}) FOR NDI

T_{dew} is the only climate variable in the FAO-56 model where input data for NDI differed from DRY. This accounts for varying field conditions and micro-climates that result from a non-deficit irrigated farm verses a dryland farmed field.

In the case of NDI, it is assumed that the crop is a well-watered crop and reaches full canopy cover. Also, no restrictions are assumed as to field size, nor acreage under cultivation. Under these conditions, the reference crop would be actively evapotranspiring, causing the relative humidity to increase and the T_{dew} to decrease. In the ASCE manual, Walter et. al (2005) outline methods to estimate T_{dew} from T_{min}. These methods are similar to those outlined in FAO-56, however, much of the data in which the method was developed for ASCE are specifically taken from Arizona therefore, are likely to be more applicable to an arid region such as the Hopi Reservation. The ASCE method involves a substitution of T_{dew} for "T_{min} - K_o". A K_o value in the range of 2-4°C is recommended for semiarid and arid regions (Allen, 1996). However, in Arizona, the value of K_o was found to vary from 2-5°C over the course of a year (Walter et. al 2005). In accordance with this finding, and per (Brown, 2007), the K_o values for the months of April-June was assumed to equal 5°C, and a K_o value of 2°C was assumed for the months of July-Sept during the monsoon season when T_{dew} is more likely to approach T_{min}. When T_{dew} is estimated using this method, no further adjustment is needed for air temperature data to represent reference conditions (Walter et. al, 2005).

2.1.3.5 DEW POINT TEMPERATURE FOR DRY

In the case of DRY, T_{dew} measurements were estimated based on available relative humidity measurements taken from the 8 Hopi met stations (Hopi, 2007). These measurements, however, are available for a short period of record and include several

large data gaps. To address this data limitation, the Method of Variance Extension, Type 1 or MOVE.1 (Hirsch, 1982) was used to create a relationship between T_{min} and T_{dew} for each month in the growing season using available. This relationship was then applied to measured temperature data from Keams Canyon and Tuba City (WRCC, 2007) to extend the record of relative humidity data. Monthly averages for T_{dew} were then computed and used in the Ref-ET program to calculate ET_o for DRY.

No attempt was made to correct T_{dew} measurements for non-reference conditions. Even with a well-watered but sparse crop, it is assumed that this would not have a significant impact on humidity measurements. Methods used to calculate DRY conditions, represent conditions associated with current agricultural practices. A potential decrease in T_{dew} is limited by the size of Hopi fields which are typically much smaller and less dense in comparison to traditional Western agriculture, which can create a microclimate effect. In addition, the ASCE (2005) manual suggest that T_{dew} correction procedures may not be effective at identifying reference environments in regions prone to large nighttime winds. Doorenbos and Pruitt (1977) also suggest that no T_{dew} correction factors be applied to small fields. Therefore, due to the current and historic condition of Hopi fields, actual T_{dew} measurements were used in calculating ET_o for DRY

2.1.4 SUMMARY OF ET_o

Table 2.1 lists the climate variables which were used to calculate upper and lower ET_o values for NDI and DRY conditions. Four climate variables (air temp, T_{dew}, R_s, and u) were entered into the Ref-ET program to compute average monthly ETo rates using the FAO-24 Blaney-Criddle, the 1985 Hargreaves-Samani, and the FAO-56 Penman-Monteith models. Of these variables, only T_{dew} was calculated differently for NDI and DRY as described above in **Sections 2.1.3.4** and **2.1.3.5**. Different wind speeds were entered into the models for the upper and lower ET_o values.

2.1.5 COMPARISON BETWEEN MODELS

Average monthly ET_o values calculated by the three models are listed in **Tables 2.2** and **2.3** and are illustrated in **Figures 2.2** and **2.3** for Keams Canyon and Tuba City, respectively. The total yearly differences in ET_o between the various models is illustrated in **Figures 2.4 – 2.7**. The upper and lower bounds represented in these tables and figures are based on the assumed growing season of Hopi corn, with an upper bound of 170 days and a lower bound of 115 days (and are also affected by the different wind speeds). This difference is explained in **Section 2.2.1**.

When compared to the FAO-56 model, the Blaney-Criddle model overestimated the range of ET_o values under both NDI and DRY conditions. This overestimation ranges between 3.2% and 14% and is congruent with the FAO-56 findings (Allen et. al, 1998). On the other hand, when compared to the FAO-56 Penman-Monteith method, the Hargreaves model underestimated the range of ET_o values. These underestimations range

between 7.3% and 18.1% and are consistent with current literature on applying the Hargreaves model to arid, windy regions (Gavilan et. al, 2006; Jensen et. al, 1997; Martinez-Cob and Tejero-Juste, 2003). These differences are summarized in **Table 2.4**. The FAO-56 ET_o values for the upper and lower limits of NDI and DRY are found in **Table 2.5**. Note that ET_o values for DRY conditions are higher than for NDI. This is a result of the different T_{dew} values entered into the model. T_{dew} values for DRY are representative of current and historical farming practices on the Hopi Reservation which reflect smaller fields and relatively wide crop spacing (Ferguson, 2004; Bradfield, 1971) that do not create a microclimate in which Tdew alterations are necessary.

2.2 CALCULATING K_c VALUES

ET_o values provide an estimate of the ET of a hypothetical reference crop under ambient climatic conditions. K_c values are needed to account for the difference in ET between this hypothetical crop and the crop grown on the Reservation. This approach assumes adequate water and soil fertility. However, water is a limiting factor in crop production on the Hopi Reservation and has dictated many of the Hopi's agricultural practices (Bradfield, 1971; Ferguson, 2004; Moon, 2004; Prevost, et. al, 1984). Therefore, to estimate ET_c on the Hopi Reservation, K_c values must be adjusted to reflect conditions that better represent those found on the Reservation. This adjustment was performed for the DRY condition and explained in later sections of this report. Pre-established methodologies and published values of crop K_c values were used for the NDI condition as it is intended to reflect a scenario which is not limited by water supply.

2.2.1 CORN Kc

Corn K_c values for the NDI condition are intended to reflect values for a well-watered corn crop with no environmental stress. The only difference between ET_o and ET_c will be the physical and physiological differences between a corn plant and grass, the reference crop. K_c values change over the stages of the plant's life, and therefore, a K_c curve is needed.

A K_c curve for NDI Corn was developed for this study based on growing-degree-days (GDD). Crop development is a function of heat units and a physiological clock can be developed based upon GDD (Sammis et. al 1985). GDD are calculated by subtracting a base temperature from the average between T_{max} and T_{min}. A base temperature of 50°F was used for corn. The WRCC (2007) site provides T_{max} and T_{min} data and these data were used to get GDD for Keams Canyon and Tuba City.

Sammis et. al (1995) computed GDD and corresponding K_c values for well-watered corn at 2 sites in New Mexico with the goal of producing a K_c curve for corn that could be applicable to similar geographical areas. The mean cumulative GDD for the New Mexico sites was 1,725 compared to the mean GDD for Tuba City of 1,706 based on WRCC weather data from April – September. Because of the similar values, the K_c

curve developed by Sammis et. al was used to calculate NDI values for ET_c on the Hopi Reservation. A graph that shows Hopi data fall along this curve is shown in **Figure 2.8**. The cumulative GDD's for the growing season are illustrated in **Figure 2.9**.

To model actual growing conditions on the Hopi Reservation (DRY), a daily soil moisture budget would be helpful to ET_c estimations. Due to infrequent watering, readily available water within the soil declines to the point of zero which causes the ET_c to also approach zero. In other words, when there is no moisture in the soil, the plant does not transpire. To correct K_c for such conditions, soil moisture needs to be quantified. Because these data could not be obtained, an alternative approach to correcting K_c was used.

A K_c curve based on **Table 21** from FAO-24 was used for DRY conditions. However, the K_c values were modified using techniques outlined in Chapter 9 of FAO-56, 'ET_c for natural, non-typical and non-pristine vegetation.' The intent of this chapter is to outline methods to estimate K_c values for agricultural vegetation when K_c values are not available, as is the case for crops grown on the Hopi Reservation. The procedure used was a modification of K_c values based on effective ground cover. There is a decrease in ET per unit area of a field when plants are spaced further apart than typical conditions, since this results in fewer plants per unit area. <u>However, the reduction in ground cover also increases the amount of solar radiation that is reflected off the bare soil and transferred to each plant.</u> The procedure described above was reviewed and approved by Dr. Richard Allen in January 2008 (Allen, 2008).

FAO-24 lists values for four K_c curves based on minimum relative humidity and wind speed. The curves are created by connecting four K_c values; Initial K_c [$K_{c\ (initial)}$], Crop Development K_c [$K_{c\ (crop\ dev.)}$, Mid-season K_c [$K_{c\ (mid)}$], and a Harvest K_c [$K_{c\ (harvest)}$]. For all FAO-24 K_c values it was assumed RH_{min}<20% with a wind speed of 0-5m/sec. A K_c (initial) of 0.12 was selected based on Sammis et. al (1995) and Figure 6 in FAO-24 (Doorenbus and Pruitt, 1977:38). $K_{c\ (crop\ dev.)}$ was calculated via linear interpolation from $K_{c\ (initial)}$ and $K_{c\ (mid\text{-}season)}$.

Equations 98 and 99 from FAO-56 (see **Appendix C**) were used in order to estimate the basal K_c during mid-season when plant density is lower than full cover conditions. The fraction of soil surface that is covered by vegetation (f_c) values were based on ADWR's field investigation (2005) and corroborated by photographs of historic and current agricultural fields (Ferguson, 2004). An f_c of 0.091, with a plant height of 1m was used for calculating the $K_{c\ mid}$ for DRY conditions for corn (ADWR 2005). Other values entered to the model are outlined in sections **2.1.3.3** and **2.1.3.5**. Values for all K_c stages for upper and lower bounds of DRY conditions are listed in **Tables 2.6** and **2.7**.

Note in **Figures 2.10** and **2.11**, that the lower bound of Corn K_c for NDI exceeds that of the upper for the months of August and September, as indicated by the lower bound K_c for NDI curve crossing over the curves for the upper bounds. This effect is due to the use of the same GDD curve for different growing seasons. A later planting date causes the plant's ET to be less initially, as plant development is trailing the crop with an earlier

planting date. In the early months of the season, the plant has had less time to develop and will evapotranspirate less water than a crop planted earlier in the season which has had more time to grow. Later in the season, however, a crop that has fully developed throughout its entire growing season, reacts differently than a crop that was planted later in the season (due to frost or lack of available water). Applying both of these potential cropping seasons to the same GDD curve is the basis for this incongruity. Brown (2007) suggests not adjusting the GDD curve to account for planting date as it would likely introduce more error into the model than would be gained in accuracy. Also, the lower bound's higher K_c value later in the season may actually represent field conditions.

Tables 2.6 – 2.9 list the final ET_c values for NDI and DRY which are illustrated in **Figures 2.12 and 2.13**.

The growing season for corn on the Hopi Reservation is limited by late spring frosts, and early fall frosts. According to the Hopi Drought Plan, "the Hopi growing season. . .is between 120 and 160 days long depending on location. . . .The planting season ranges from mid-April for early ceremonial corn to June for the principal corn crop" (Hopi Tribe, 2000). Several reliable sources cite similar numbers for the growing period, with a range from 115 to 170 days (Adams, 1979; Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993). Monthly ET rates were calculated based on a growing season of 115 days for lower bound ET estimates, and a growing season of 170 days for upper bounds of ET estimates. Because ET_o rates were calculated as a monthly average, these were adjusted through linear interpolation when an entire month did not fall within a growing season. This adjustment was also made for K_c values that were based on average monthly GDD's.

2.2.2 BEAN K_c

As with corn, beans are field crops that are typically grown in dryland fields by the Hopi and actual field conditions do not meet reference crop criteria. NDI calculations are based on what a potential bean crop could produce if not limited by water. K_c values used for NDI bean were taken from Table 21 in FAO-24 (Doorenbus and Pruitt, 1977:40).

To calculate ET for beans under DRY conditions, the K_c curve had to be adjusted to represent dryland farming conditions. Therefore, FAO-24 values were modified using the same technique as was used for corn. The approach is outlined in Chapter 9 of FAO-56 and the values for these modifications were based on data outlined in sections **2.1.3.3** and **2.1.3.5**, with an f_c of 0.14 and a plant height of 0.3m, based on data from ADWR (2005).

A crop season of 110 days and an average planting date of May 15 for beans was based on available literature (Ferguson 2004; Bradfield 1971). The ET_c rates from the K_c values established for Hopi beans are illustrated in **Figure 2.12** and **Figure 2.13**.

2.2.3 ORCHARD K_c

Development of the K_c values for orchards on the Hopi Reservation followed a similar methodology as was used for corn and bean K_c values. K_c values from Table 26 of FAO-24 were used (Doorenbus and Pruitt, 1971:49). Because the fruit trees do not experience as dramatic a growth process during the growing season, K_c values are provided by month rather than by developmental stages. K_c values were selected to represent several fruits (peaches, apricots, pears, and plums); a cold winter with killing frost; dry, light to moderate wind (0-5 m/sec); and no ground cover crop. The growing season under these specifications extends from April thru October.

Although other varieties of trees are grown on the Reservation, most prevalent are peach trees (*Prunus persica*) (Ferguson 2004; Bradfield 1971). A single K_c that represents peach trees was considered adequate for this study. However, orchards are frequently located in fields that are considered dryland farmed and therefore an adjustment to the K_c value was necessary.

For DRY conditions, these K_c values were modified to once again represent sparse vegetation or tree stands. An f_c of 0.34 and plant height of 2m was used for Equations 98 and 99 in FAO-56 based on ADWR's field survey (2005).

Figures 2.16 and 2.17 show ET_c values for orchards under NDI and Dry conditions at Keams Canyon and Tuba City.

2.2.4 MELON Kc

The fourth most prevalent crop on the Hopi Reservation is melons. Melons and squash (Section 2.2.5) were assumed to represent the common crops grown in Hopi gardens. While the majority of Hopi fields are dependent upon direct precipitation and supplemental surface flow during storm events, Hopi gardens are often located near a perennial water supply (most often a spring) in which hand watering is frequently practiced (Ferguson, 2004). Because of this difference in water supply, the DRY condition was not calculated. In addition, melons and squash combined are believed to account for only 4% of the total field acreage and therefore do not account for a large percentage of the agricultural consumptive use on the Reservation. K_c values for melon were taken from Table 21 in FAO-24 (Doorenbus and Pruitt, 1977:40). The average planting date (May 1) and length of season (120 days) were based on present literature on the subject of Hopi agriculture (Ferguson 2004; Bradfield 1971).

ET_c values calculated for Hopi melons are illustrated in **Figures 2.18** and **2.19**.

2.2.5 SQUASH Kc

As explained in the above section, squash was assumed a Hopi garden crop with different watering and agricultural techniques than other crops grown on the Reservation. As with melons, no DRY condition was calculated for Hopi squash and the only variation in ET estimates are due to differences in ET_o variables. K_c values were obtained from Table 21 in FAO-24 (Doorenbus and Pruitt, 1977:41) with again the K_c (soil) equal to 0.12. The planting date assumed was May 1 and the growing season consists of 110 days (Ferguson 2004; Bradfield 1971). ET_c rates throughout the growing season are illustrated in **Figures 2.20** and **2.21**.

2.3 FINAL ET_c CALCULATIONS

Final crop ET_c values are listed in **Table 2.11** and provide upper and lower estimates for five different crops at Keams Canyon and Tuba City under NDI and DRY conditions. Values for Keams Canyon and Tuba City were combined and the average listed in **Table 2.12**, which demonstrates a composite estimate of ET_c for the range of conditions on the Hopi Reservation. To apply a single ET_c value to all Hopi fields, a weighted average (based on crop mixing percentages in **Table 1.1**) was taken and the results are presented in **Table 2.13**. These values can be applied to the total acreage under cultivation to produce a Reservation-wide crop consumptive use value. ***Under current and historic agricultural practices and using current and historical plant varieties adapted to the region, the range of consumptive use for Hopi agricultural fields is 0.92-1.43 ft/acre. If water were not a limiting factor on the Reservation, the consumptive use of non-deficit irrigated crops on the Reservation would be 2.29-3.03 ft/acre.***

The values presented above represent crop water use per unit of area. Individual plants grown on the Reservation likely use an amount of water closer to a plant grown under traditional Western practices. However, the spacing of individual plants is much greater than in a traditional Western field. Ferguson (2004:53) reported corn clumps spaced 8 to 12 feet apart with rows spaced in accordance to the farmer's estimate of available soil moisture. According to Bradfield (1971:5), "the wide spacing of plants in fields is an important element in Hopi planting as this helps to insure that each clump of corn receives adequate moisture." This practice has developed as a land-management technique intended to cope with harsh environmental stressors, mainly the lack of available water. Therefore, although an individual corn plant may use a quantity of water more similar to an individual corn plant planted elsewhere, the wide spacing between plants leads to a lower "per unit area" quantity on the Reservation. In other words, there are fewer plants per unit area which means less overall water usage. If crop spacing was not dictated by water availability, water usage on a per unit area basis would therefore increase substantially.

It should also be noted that these ET_c values represent average water consumption based on available data. Because Hopi crops are so dependent on rainfall, in years in which

there is relatively little available water, the actual consumptive use will be lower. Conversely, in years in which there is a greater rainfall than average, the consumptive use of crops will increase to a greater value than here.

The Hopi Tribe has followed agricultural and lifestyle practices that compensate for this hardship. The DRY method values presented in this report are intended to estimate actual historical and current consumption values which are limited by the supply of rainwater and do not represent water use based on a desired or ideal crop yield.

2.4 EFFECTIVE PRECIPITATION

The majority of Hopi corn fields are dryland farmed, relying heavily upon precipitation and stored soil moisture (Ferguson, 2004; Hopi Tribe, 2000; Moon, 2004). ET_c estimates for Hopi corn fields are corroborated by estimations of effective precipitation on the Reservation. Effective precipitation refers to the amount of rainfall that is utilizable to plants and is based on the amount, frequency, and intensity of rainfall. Rainfall that runs off a field and any water that percolates beyond the root zone are examples of ineffective precipitation.

In some cases, effective precipitation is calculated using the amount of rain that falls only during the growing season. However, since Hopi fields are geographically situated as to maximize effective precipitation by taking advantage of deeply stored soil moisture (Ferguson, 2004; Dominguez and Kolm, 2005), it is more appropriate that effective precipitation be calculated from total annual rainfall.

For Keams Canyon, annual effective precipitation, as estimated with FAO techniques using monthly consumptive use and precipitation (Dastane, 1978), is approximately 52-89% of estimated DRY ET_c (Tuba City is approximately 33-56%). **Tables 2.6** through **2.9** include, growing season, annual effective, and growing season effective rainfall for these two stations.

2.5 OTHER CU ESTIMATES

The National Resource Consulting Engineers, Inc. conducted a consumptive use study using the Jensen-Haise model to calculate ET (see **Appendix A and B**). This is a radiation-based model and according to Allen et. al, (1998) "radiation methods show good results in humid climates. . .but performance in arid conditions is erratic and tends to underestimate evapotranspiration." In addition to the lack of reliability of this model in arid environments, there are also no radiation measurements with an extensive period of record located on the Hopi Reservation, therefore, a model based on radiation would be greatly subject to all of the potential errors involved in estimating radiation data.

The modifications to K_c values were based on "a 30 percent reduction to account for field conditions." The NRCE makes no reference as to data that supports this reduction.

The NRCE also quantifies the spacing of corn crops as "spaced on about 4- to 5-foot rows with spacing of about 3 feet between plant clusters, as compared to typical 2.5-foot row spacing and 0.75- to 1-foot plant spacing along rows" (See Appendix 2). These values contradict values gathered by ADWR (2005) as well as literature on the subject. For example, Bradfield writes that "A Hopi corn field is planted in rows, with some 3 paces between rows, and 3 to 4 paces between the separate 'hills' in a row." [Depending on the definition of 'pace,' this is 7.5ft x 7.5-10ft, or 15ft x 15-20ft.] (1971:5). Ferguson also reports that "corn clumps are spaced 8 to 12 feet apart. Farmers determine the exact spacing of corn within a row and in alternate transverse rows according to their estimates of how much soil moisture is available when they plants" (2004; p.53). These values of crop spacing are double that of the information presented by the NRCE.

The harvesting season of 120 days used in the NRCE report is also contradictory to many sources (Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993).

2.6 SUPPLEMENTAL IRRIGATION DEMAND

Supplemental irrigation demand (SID) is the consumptive use demand of a crop which is not satisfied by effective precipitation. In this study, the SID was estimated by subtracting the annual effective precipitation (see **Tables 2.6** through **2.9**) from the consumptive use requirement of crops grown on the Hopi Reservation (see **Table 2.13**).

SID was also estimated from the Hopi Tribe's Statement of Claim (see **Appendix A**) using an alternative method. The 'average irrigation depletion' and the 'maximum irrigation depletion' were divided by the quantity of irrigated acres (non-precipitation farmed acres), as claimed by the Hopi Indian Tribe, to yield 'average SID' and 'maximum SID.' These values are compared to the SID calculated by ADWR in **Table 2.14.**

CHAPTER 3:
STUDY LIMITATIONS

The intent of this report is to provide a scientifically-based estimation of the consumptive use of crops grown on the Hopi Reservation using available and reliable data and following standard and accepted methods.

K_c curves were adjusted to represent dryland farming conditions based on a relationship between ET and sparseness of vegetation. The data used to quantify this sparseness were based on an ADWR field survey from 2005. That was corroborated with data from Ferg. Although evidence suggests that the Hopi agricultural practices, including crop spacing, have remained relatively constant (Ferguson 2004; Manolescu, 1995), a more extensive field investigation, spanning several growing seasons, might add to the accuracy of sparseness estimations.

The K_c curves presented in this report are a best, first order estimation of crop water use on the Hopi Reservation. The ET_o values reported are based primarily on temperature measurements with estimations and extrapolation of other meteorological data. Better estimates of crop water use may be possible if additional, site specific data were available. These data include but are not limited to, soil moisture, wind speed, solar radiation, crop canopy cover, and harvest index ratio. These should be collected throughout the growing period and during consecutive years so that an adequate period of record is established. Desert environments are characterized by droughts and wet periods that vary in duration and magnitude. These can cause annual crop water usage to fluctuate substantially.

The temperature data used in this report was obtained from two met stations located on the Hopi Reservation. Data from additional met stations on the Reservation with a significant period of record may improve ET estimates.

Tables

Table 1.1: Hopi Crop Mixing

Crop Mixing for Hopi Agriculture*	
Crop	**Percentage**
Corn**	81.2%
Orchards**	8.1%
Beans**	6.7%
Melons	2.3%
Squash/other	1.7%

*Estimate based on mean values from current and historic field surveys (ADWR, 2005; BIA, 1924-1955; Ellis, 1974; Ferguson, 2004)
**Includes all varieties

Table 2.1: Data Input for Hopi Corn ETc

	Non-deficit Irrigated Land (NDI)				Dryland/Actual Conditions (DRY)			
	Upper Bound		Lower Bound		Upper Bound		Lower Bound	
	Method	Source	Method	Source	Method	Source	Method	Source
Temperature	measured data	(WRCC, 2007)	measured data	(WRCC, 2007)	measured data	(WRCC, 2007)	measured data	(WRCC, 2007)
Dew Point (Tdew)	ASCE estimation	(ASCE, 2005), (Brown, 2007)	ASCE estimation	(ASCE 2001), (Brown 2007)	MOVE.1 Record Extension	(HOPI 2007), (Hirsch 1982)	MOVE.1 Record Extension	(HOPI 2007), (Hirsch 1982)
Solar Radiation	Hargreaves	(FAO-56)	Hargreaves	(FAO-56)	Hargreaves	(FAO-56)	Hargreaves	(FAO-56)
Wind Speed (u)	5 m/s	(FAO-56) (Hopi, 2007)	3 m/s	(FAO-56) (Hopi, 2007)	5 m/s	(FAO-56) (Hopi, 2007)	3 m/s	(FAO-56) (Hopi, 2007)
Growing Season	170 days (April 7-Sept 20)	(Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993)	115 days (May 15-Sept 8)	(Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993)	170 days (April 7-Sept 20)	(Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993)	115 days (May 15-Sept 8)	(Ferguson, 2004; Manolescu, 1995; Bradfield, 1971; Prevost et. al 1984; Soleri and Cleveland 1993)
Kc Value	NM GDD Curve	(Sammis, et. al 1985)	NM GDD Curve	(Sammis, et. al 1985)	Kc adj for Sparse Vegetation	(FAO-56, Ch. 9)	Kc adj for Sparse Vegetation	(FAO-56, Ch. 9)

Table 2.2: ET_o Rates for Hopi NDI fields

		Monthly ET_o Rates for NDI					
		FAO56-PM (upper)	FAO56-PM (lower)	FAO24-BC (upper)	FAO24-BC (lower)	Harg-Sam (upper)	Harg-Sam (lower)
		mm/day	mm/day	mm/day	mm/day	mm/day	mm/day
Tuba City	April	6.34	4.98	5.56	4.96	4.13	4.13
	May	7.29	6.60	7.53	6.80	5.59	5.59
	June	8.90	7.56	9.63	8.74	6.95	6.95
	July	8.65	7.43	9.55	8.71	7.18	7.18
	Aug	7.88	6.74	8.31	7.57	6.23	6.23
	Sept	6.88	6.04	6.79	6.14	4.85	4.85
Keams Canyon	April	5.83	4.62	4.85	4.31	3.83	3.83
	May	6.69	6.21	6.73	6.05	5.11	5.11
	June	8.46	7.26	9.01	8.16	6.57	6.57
	July	8.03	6.98	8.78	7.98	6.67	6.67
	Aug	7.08	6.15	7.40	6.71	5.65	5.65
	Sept	6.14	5.50	5.96	5.37	4.39	4.39

Table 2.3: ET_o Rates for Hopi DRY fields

		Monthly ET_o Rates for DRY					
		FAO56-PM (upper)	FAO56-PM (lower)	FAO24-BC (upper)	FAO24-BC (lower)	Harg-Sam (upper)	Harg-Sam (lower)
		mm/day	mm/day	mm/day	mm/day	mm/day	mm/day
Tuba City	April	7.20	5.40	5.84	5.21	4.13	4.13
	May	8.49	7.39	8.48	7.61	5.59	5.59
	June	10.40	8.44	10.90	9.87	6.95	6.95
	July	11.00	8.80	11.60	10.40	7.18	7.18
	Aug	9.17	7.52	9.25	8.37	6.23	6.23
	Sept	7.96	6.79	7.55	6.79	4.85	4.85
Keams Canyon	April	6.65	5.05	5.30	4.70	3.83	3.83
	May	7.78	6.93	7.60	6.80	5.11	5.11
	June	9.86	8.08	10.30	9.25	6.57	6.57
	July	10.40	8.37	10.90	9.81	6.67	6.67
	Aug	8.75	7.17	8.63	7.77	5.65	5.65
	Sept	7.23	6.30	6.67	5.98	4.39	4.39

Table 2.4: ETo Model Comparison to FAO-56

*values based on corn growing season (upper = 170 days; lower =115 days)

	Percentage Difference from the FAO-56 Penman-Monteith ETo Model for the Hopi Reservation							
	NDI				DRY			
	Tuba City		Keams Canyon		Tuba City		Keams Canyon	
	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
Blaney-Criddle	3.2%	14.0%	1.8%	10.6%	7.7%	9.0%	5.4%	9.0%
Hargreaves-Samani	-18.1%	-7.3%	-17.5%	-8.3%	-15.2%	-12.7%	-16.7%	-14.4%

Table 2.5: FAO-56 ETo Rates for NDI and DRY Fields

Comparison of Hopi ETo Rates (FAO-56)					
		NDI		DRY	
		upper	lower	upper	lower
	month	mm/day	mm/day	mm/day	mm/day
Tuba City	April	6.34	4.98	7.20	5.40
	May	7.29	6.60	8.49	7.39
	June	8.90	7.56	10.40	8.44
	July	8.65	7.43	11.00	8.80
	Aug	7.88	6.74	9.17	7.52
	Sept	6.88	6.04	7.95	6.79
Keams Canyon	April	5.83	4.62	6.65	5.05
	May	6.69	6.21	7.78	6.93
	June	8.46	7.26	9.86	8.08
	July	8.03	6.98	10.40	8.37
	Aug	7.08	6.15	8.75	7.17
	Sept	6.14	5.50	7.23	6.30

Table 2.6: Corn ETc values for Hopi DRY upper limit

Dryland Farmed Fields (DRY)
Upper Bound for Corn

	Season		FAO56PM ETo		Crop Stage	Days per Stage	Kc	ETc		
	month	days/mo	mm/day	mm/mo				mm/mo	mm/day	
Tuba City	April	23	7.20	165.60	1	30	0.12	18.46	0.00	
	May	31	8.49	263.19	2	50	interpolation	44.67	1.44	
	June	30	10.40	312.00	3	55	0.36	95.25	3.18	
	July	31	11.00	341.00	4	35	0.19	115.49	3.73	
	Aug	31	9.17	284.27				103.50	3.34	
	Sept	24	7.95	190.80				47.26	1.97	
		days/yr	mm/yr	ft/yr				mm/yr	**in/yr**	**ft/yr**
	Totals	170	1556.86	5.11				424.63	**16.72**	**1.39**
	Season		FAO56PM ETo		Crop Stage	Days per Stage	Kc	ETc		
	month	days/mo	mm/day	mm/mo				mm/mo	mm/day	
Keams Canyon	April	23	6.65	152.95	1	30	0.12	17.11	0.00	
	May	31	7.78	241.18	2	50	interpolation	41.28	0.98	
	June	30	9.86	295.80	3	55	0.36	90.03	1.48	
	July	31	10.40	322.40	4	35	0.19	109.34	1.81	
	Aug	31	8.75	271.25				97.98	1.57	
	Sept	24	7.23	173.52				43.00	1.35	
		days/yr	mm/yr	ft/yr				mm/yr	**in/yr**	**ft/yr**
	Totals	170	1457.1	4.78				398.74	**15.70**	**1.31**

Upper Bound ETo Input Variables			
Wind	Growing Season	Tdew	Kc
5 m/s	170 days	Actual (MOVE.1)	Kc adj Sparse Veg

Rainfall (in)		
	Keams Canyon	**Tuba City**
Annual	9.97	6.48
Growing Season (Apr-Sept)	4.97	3.32
Annual (effective)	8.19	5.48
Growing Season (effective)	**4.60**	**3.13**

Table 2.7: Corn ETc values for Hopi DRY lower limit

Dryland Farmed Fields (DRY)
Lower Bound for Corn

	Season		FAO56PM ETo		Crop Stage	Days per Stage	Kc	ETc		
	month	days/mo	mm/day	mm/mo				mm/mo	mm/day	
Tuba City	April	0	5.40	0.00	1	20	0.12	0.00	0.00	
	May	15	7.39	110.85	2	35	interpolation	15.07	1.00	
	June	30	8.44	253.20	3	40	0.36	53.59	1.79	
	July	31	8.80	272.80	4	20	0.19	91.56	2.95	
	Aug	31	7.52	233.12				79.40	2.56	
	Sept	8	6.79	54.32				7.08	0.89	
		days/yr	mm/yr	ft/yr				mm/yr	**in/yr**	**ft/yr**
	Totals	115	924.29	3.03				246.70	**9.71**	**0.81**
	Season		FAO56PM ETo		Crop Stage	Days per Stage	Kc	ETc		
	month	days/mo	mm/day	mm/mo				mm/mo	mm/day	
Keams Canyon	April	0	5.05	0.00	1	20	0.12	0.00	0.00	
	May	15	6.93	103.95	2	35	interpolation	14.14	0.98	
	June	30	8.08	242.40	3	40	0.36	51.15	1.48	
	July	31	8.37	259.47	4	20	0.19	87.17	1.81	
	Aug	31	7.17	222.27				75.36	1.57	
	Sept	8	6.30	50.40				6.59	1.35	
		days/yr	mm/yr	ft/yr				mm/yr	**in/yr**	**ft/yr**
	Totals	115	878.49	2.88				234.41	**9.23**	**0.77**

Lower Bound ETo Input Variables			
Wind	Growing Season	Tdew	Kc
3 m/s	115 days	Actual (MOVE.1)	Kc adj Sparse Veg

Rainfall (in)		
	Keams Canyon	**Tuba City**
Annual	9.97	6.48
Growing Season (Apr-Sept)	4.97	3.32
Annual (effective)	8.19	5.48
Growing Season (effective)	**4.60**	**3.13**

Table 2.8: ETc values for Hopi NDI upper limit for Corn

Non-deficit Irrigated Land (NDI) Upper Bound									
Tuba City	Season		FAO56PM ETo		GDD	Kc	ETc		
	month	days/mo	mm/day	mm/mo			mm/mo	mm/day	
	April	23	6.34	145.82	138.00	0.35	50.45	2.19	
	May	31	7.29	225.99	395	0.72	162.39	5.24	
	June	30	8.9	267	724	1.04	278.11	9.27	
	July	31	8.65	268.15	1133	1.07	287.48	9.27	
	Aug	31	7.88	244.28	1526	0.56	136.40	4.40	
	Sept	24	6.88	165.12	1732	0.12	19.81	0.83	
	Totals	days/yr	mm/yr	ft/yr			mm/yr	**in/yr**	**ft/yr**
		170	1316.36	4.32			934.65	**36.80**	**3.07**

Keams Canyon	Season		FAO56PM ETo		GDD	Kc	ETc		
	month	days/mo	mm/day	mm/mo			mm/mo	mm/day	
	April	23	5.83	134.09	105	0.29	39.31	1.71	
	May	31	6.69	207.39	308	0.60	124.81	4.03	
	June	30	8.46	253.8	594	0.94	238.43	7.95	
	July	31	8.03	248.93	947	1.12	278.60	8.99	
	Aug	31	7.08	219.48	1281	0.95	208.43	6.72	
	Sept	24	6.14	147.36	1530	0.55	81.09	3.38	
	Totals	days/yr	mm/yr	ft/yr			mm/yr	**in/yr**	**ft/yr**
		170	1211.05	3.97			970.68	**38.22**	**3.18**

Upper Bound ETo Input Variables			
Wind	Growing Season	Tdew	Kc
5 m/s	170 days	ASCE Method	NM GDD Curve

Rainfall (in)		
	Keams Canyon	**Tuba City**
Annual	9.97	6.48
Growing Season (Apr-Sept)	4.97	3.32
Annual (effective)	8.19	5.48
Growing Season (effective)	**4.60**	**3.13**

Table 2.9: ETc values for Hopi NDI lower limit for Corn

Non-deficit Irrigated Land (NDI) Lower Bound									
Tuba City	Season		FAO56PM ETo		GDD	Kc	ETc		
	month	days/mo	mm/day	mm/mo			mm/mo	mm/day	
	April	0	4.98	0	0	0.12	0.00	0.00	
	May	15	6.6	99	156	0.37	37.09	2.47	
	June	30	7.56	226.8	485	0.83	187.59	6.25	
	July	31	7.43	230.33	894	1.11	256.37	8.27	
	Aug	31	6.74	208.94	1287	0.94	197.12	6.36	
	Sept	8	6.04	48.32	1376	0.83	39.98	5.00	
	Totals	days/yr	mm/yr	ft/yr			mm/yr	**in/yr**	**ft/yr**
		115	813.39	2.67			718.16	**28.27**	**2.36**

Keams Canyon	Season		FAO56PM ETo		GDD	Kc	ETc		
	month	days/mo	mm/day	mm/mo			mm/mo	mm/day	
	April	0	4.62	0	0	0.12	0.00	0.00	
	May	15	6.21	93.15	127	0.33	30.62	2.04	
	June	30	7.26	217.8	413	0.74	161.34	5.38	
	July	31	6.98	216.38	766	1.07	230.63	7.44	
	Aug	31	6.15	190.65	1100	1.09	207.56	6.70	
	Sept	8	5.5	44	1175	1.05	46.01	5.75	
	Totals	days/yr	mm/yr	ft/yr			mm/yr	**in/yr**	**ft/yr**
		115	761.98	2.50			676.17	**26.62**	**2.22**

Lower Bound ETo Input Variables			
Wind	Growing Season	Tdew	Kc
3 m/s	115 days	ASCE Method	NM GDD Curve

Rainfall (in)		
	Keams Canyon	**Tuba City**
Annual	9.97	6.48
Growing Season (Apr-Sept)	4.97	3.32
Annual (effective)	8.19	5.48
Growing Season (effective)	**4.60**	**3.13**

Table 2.10 FAO-56 Wind Estimations (Allen et. al 1998)

Description	Mean monthly wind speed at 2m above ground surface
light wind	...≤1.0 m/s
light to moderate wind	1 -- 3 m/s
moderate to strong wind	3 -- 5 m/s
strong wind	...≥ 5.0 m/s

Table 2.11: ETc for Crops on the Hopi Reservation

	ETc for Crops on Hopi Reservation				
		NDI		DRY	
	Crop	ETc Upper (ft/yr)	ETc Lower (ft/yr)	ETc Upper (ft/yr)	ETc Lower (ft/yr)
Keams Canyon	Corn	3.18	2.22	1.31	0.77
	Beans (dry)	2.06	1.78	1.12	0.91
	Trees (orchard)	3.34	2.87	2.27	1.95
	Melon	2.03	1.75	2.03	1.75
	Squash	1.83	1.58	1.83	1.58
Tuba City	Corn	3.07	2.36	1.39	0.81
	Beans (dry)	2.24	1.91	1.19	0.96
	Trees (orchard)	3.66	3.11	2.49	2.11
	Melon	2.20	1.88	2.20	1.88
	Squash	1.97	1.68	1.97	1.68

Table 2.12: Average ETc for Crops on Hopi Reservation

Combined ETc for Crops on Hopi Reservation				
	NDI		DRY	
Crop	ETc Upper (ft/yr)	ETc Lower (ft/yr)	ETc Upper (ft/yr)	ETc Lower (ft/yr)
Corn	**3.13**	**2.29**	**1.35**	**0.79**
Beans (dry)	**2.15**	**1.85**	**1.16**	**0.94**
Trees (orchard)	**3.50**	**2.99**	**2.38**	**2.03**
Melon	**2.12**	**1.81**	**2.12**	**1.82**
Squash	**1.90**	**1.63**	**1.90**	**1.63**

Table 2.13: Composite Hopi Agiculture ET_c Values

Composite ET_c for Crops on Hopi Reservation*				
	NDI		DRY	
Crop	ETc Upper (ft/yr)	ETc Lower (ft/yr)	ETc Upper (ft/yr)	ETc Lower (ft/yr)
Corn	2.54	1.86	1.10	0.64
Beans (dry)	0.17	0.15	0.09	0.08
Trees (orchard)	0.23	0.20	0.16	0.14
Melon	0.05	0.04	0.05	0.04
Squash	0.03	0.03	0.03	0.03
Total ET_c	**3.03**	**2.29**	**1.43**	**0.92**

*Table based on average ET_c Values (see **Table 2.12**) weighted to account for expected crop mix on the Reservation (see **Table 1.1**)

Table 2.14: Supplemental Irrigation Demand Estimates for Agriculture on the Hopi Indian Reservation

Hopi Supplemental Irrigation Demand for Agriculture on the Hopi Indian Reservation	
Average	Maximum
0.61	0.99

(Based on irrigation depletion estimates and irrigated acreages from the Hopi Tribe's Statement of Claim, see Appendix A, this report)

	ADWR Supplemental Irrigation Demand for Agriculture on the Hopi Indian Reservation	
	Lower Limit	Upper Limit
NDI	1.72	2.46
DRY	0.35	0.86

Figures

Figure 1.1 Corn Field in Moenkopi Wash
Photograph by Tad Nichols 1954. Northern Arizona University Neg. No. PH.99.3.6.35 (Ferguson, 2004).

Figure 1.2: Corn Field in Pasture Canyon
Photo by ADWR 3/2007.

Figure 1.3: Hopi Corn and Bean Fields near Moenkopi
Photo by ADWR 10/2005.

Figure 1.4: Hopi Corn Field near Kykotsmovi
Photo by ADWR 9/2005

Figure 1.5: Hopi Bean Field near Hotevilla
Photo by ADWR 9/2005.

Figure 1.6: Hopi Garden near Hotevilla
Photo by ADWR 9/2005.

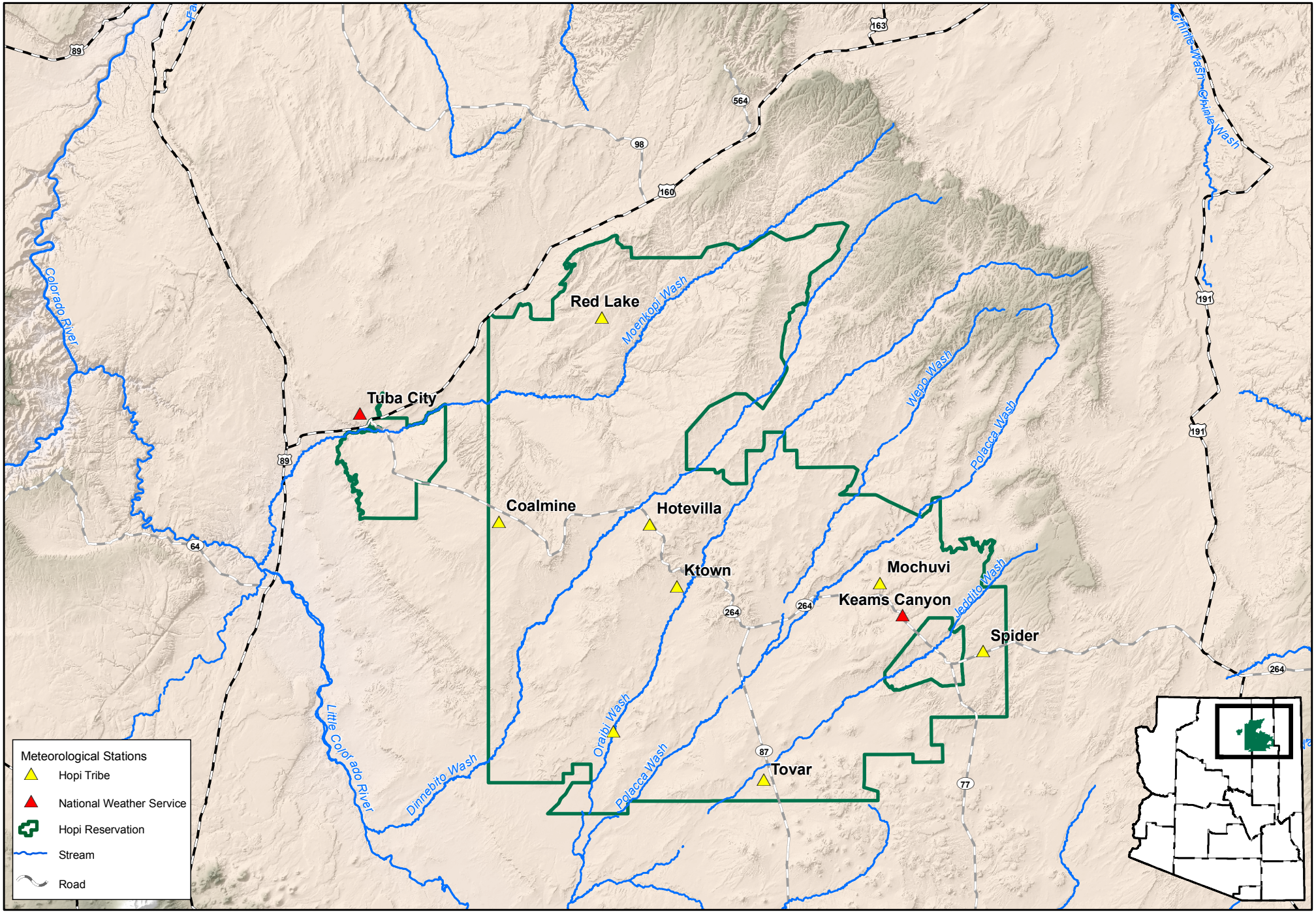

Figure 2.1 Meteorological Stations on and Adjacent to the Hopi Indian Reservation. (Data Sources: HWRP, 2007; WRCC, 2007)

0 2.5 5 10 15 20 Miles

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11/14/2008, \\adwrsas1-phx01.azwater.gov\gis-vns, u:\workspaces\statewideplanning\adjudications\projects\hopi_hsr_adjud\maps\climate\mxd\fig2.1_metstations.mxd

Figure 2.2 Keams Canyon
ETo Models for Hopi CU

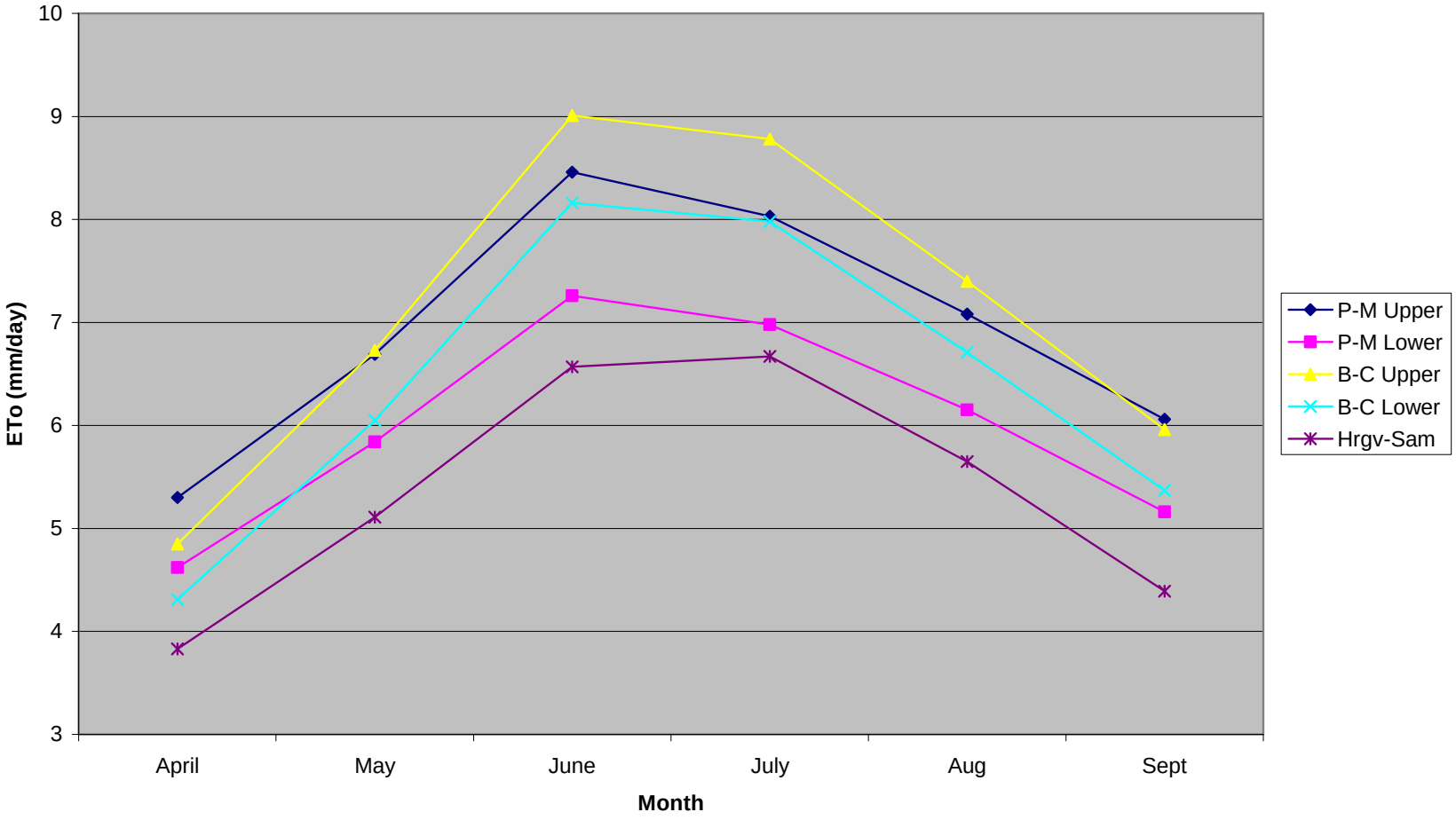


Figure 2.3 Tuba City
ETo Models for Hopi CU

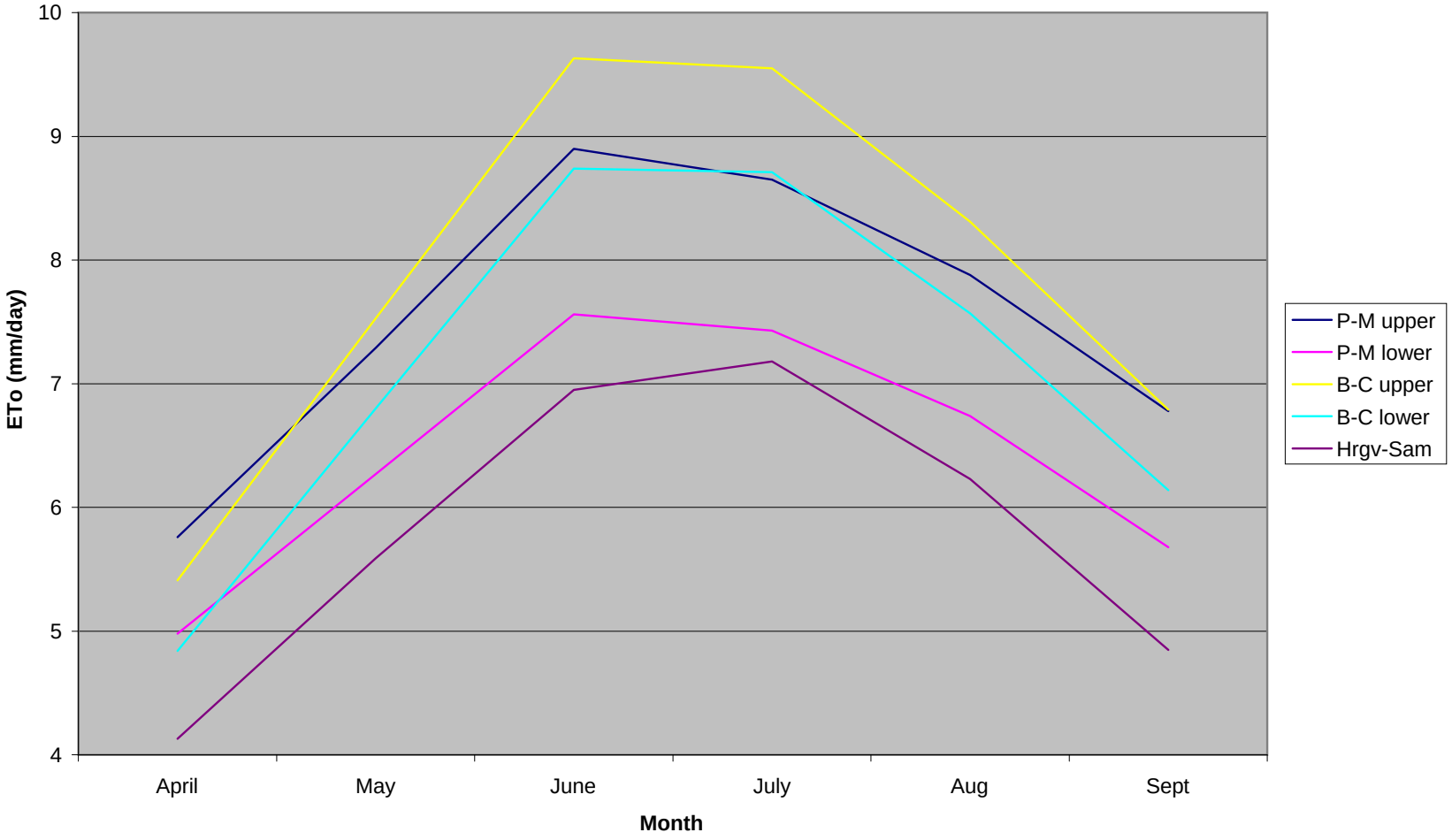


Figure 2.4: Tuba City ET_o NDI Model Comparison

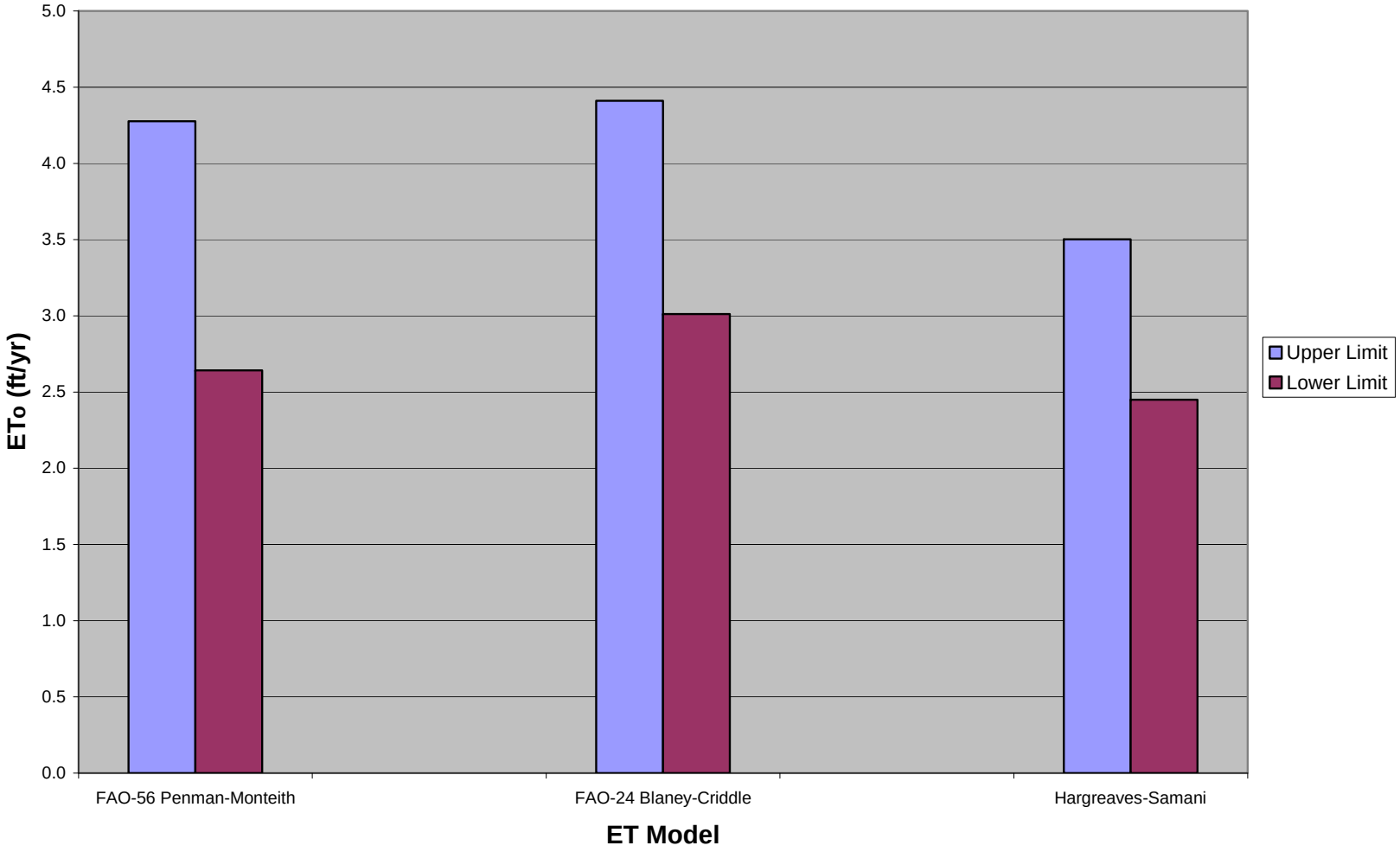


Figure 2.5: Keams Canyon ET_o NDI Model Comparison

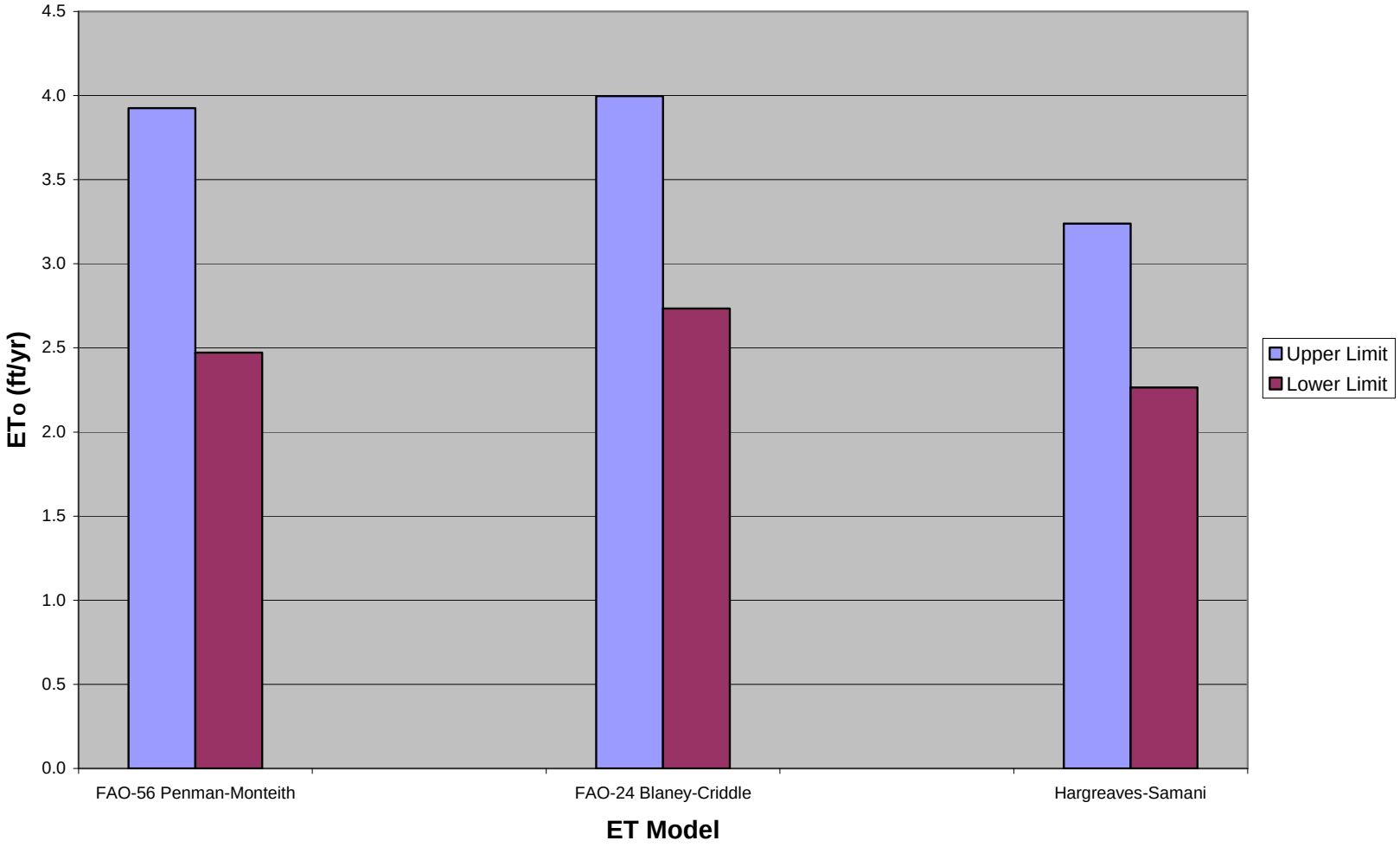


Figure 2.6: Tuba City ET_o DRY Model Comparison

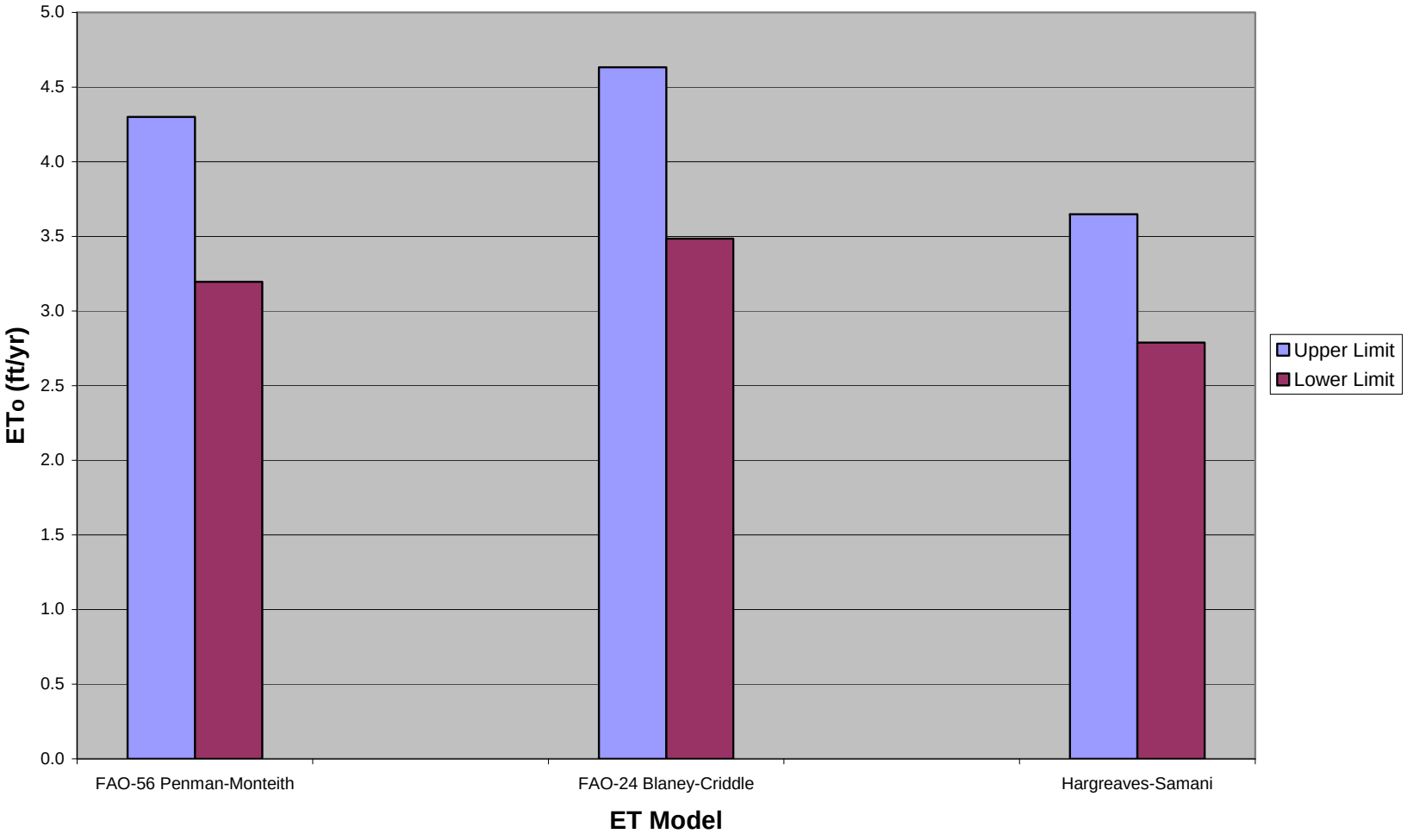


Figure 2.7: Keams Canyon ET_o DRY Model Comparison

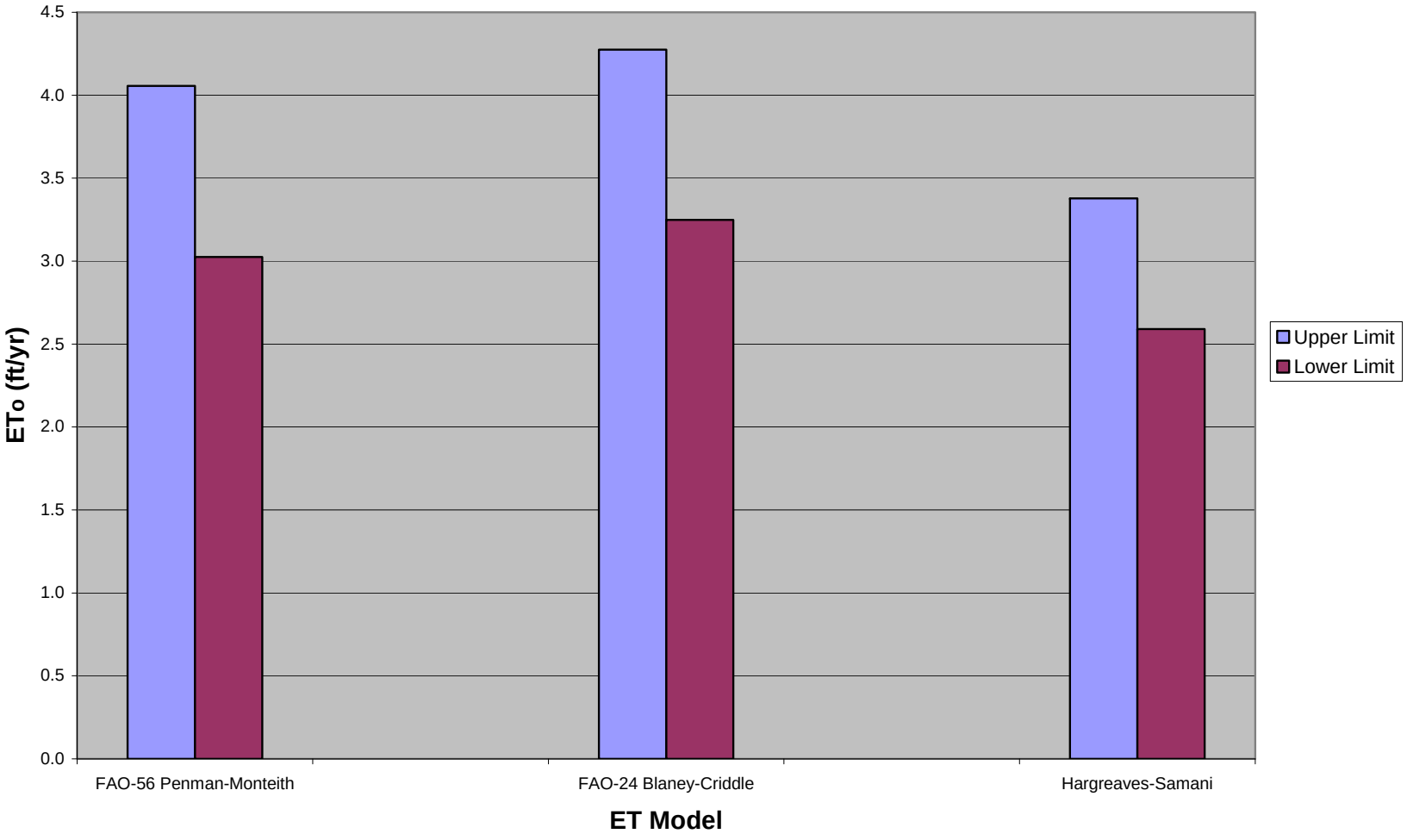


Figure 2.8: GDD Curve for Hopi Corn

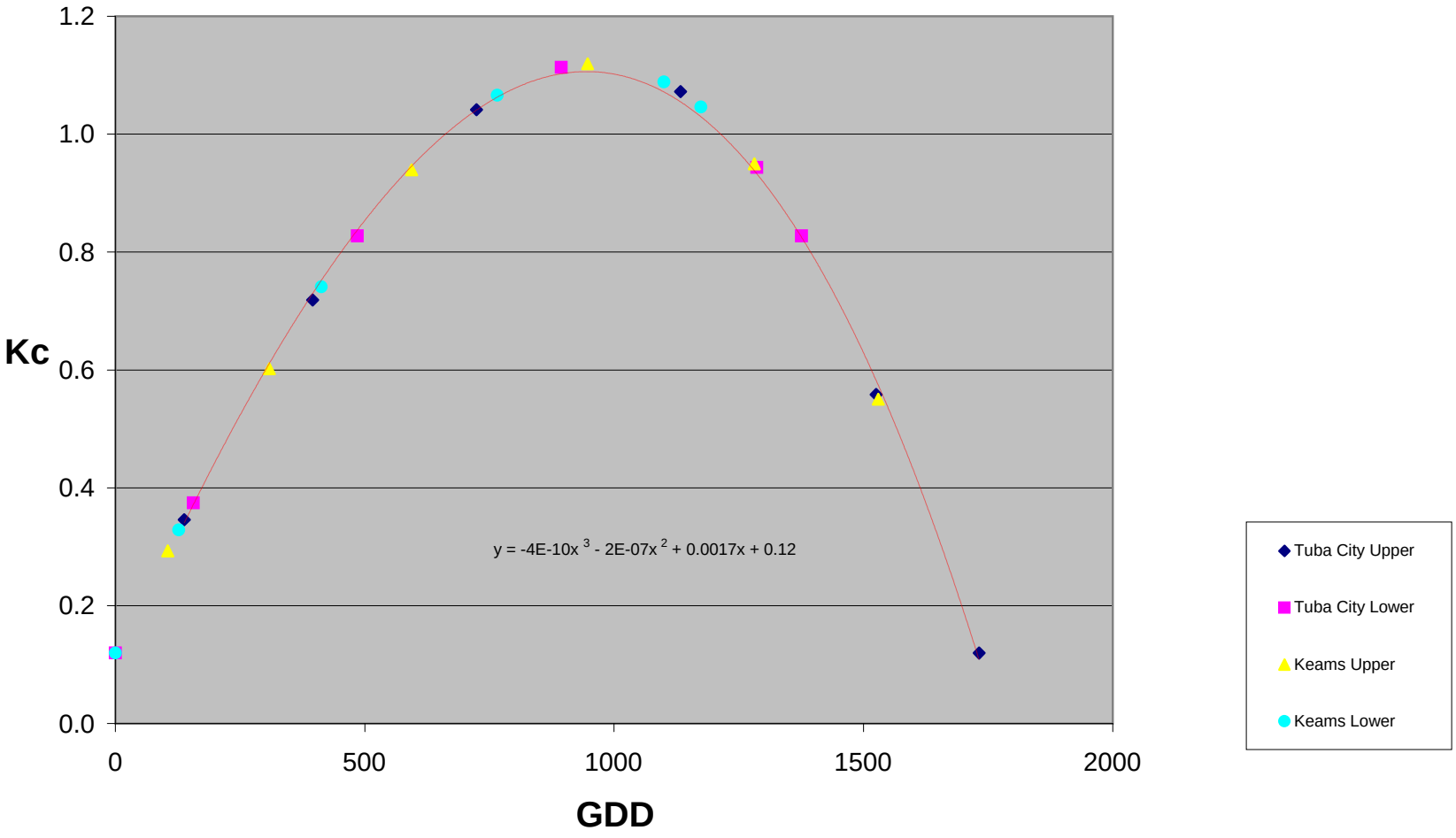
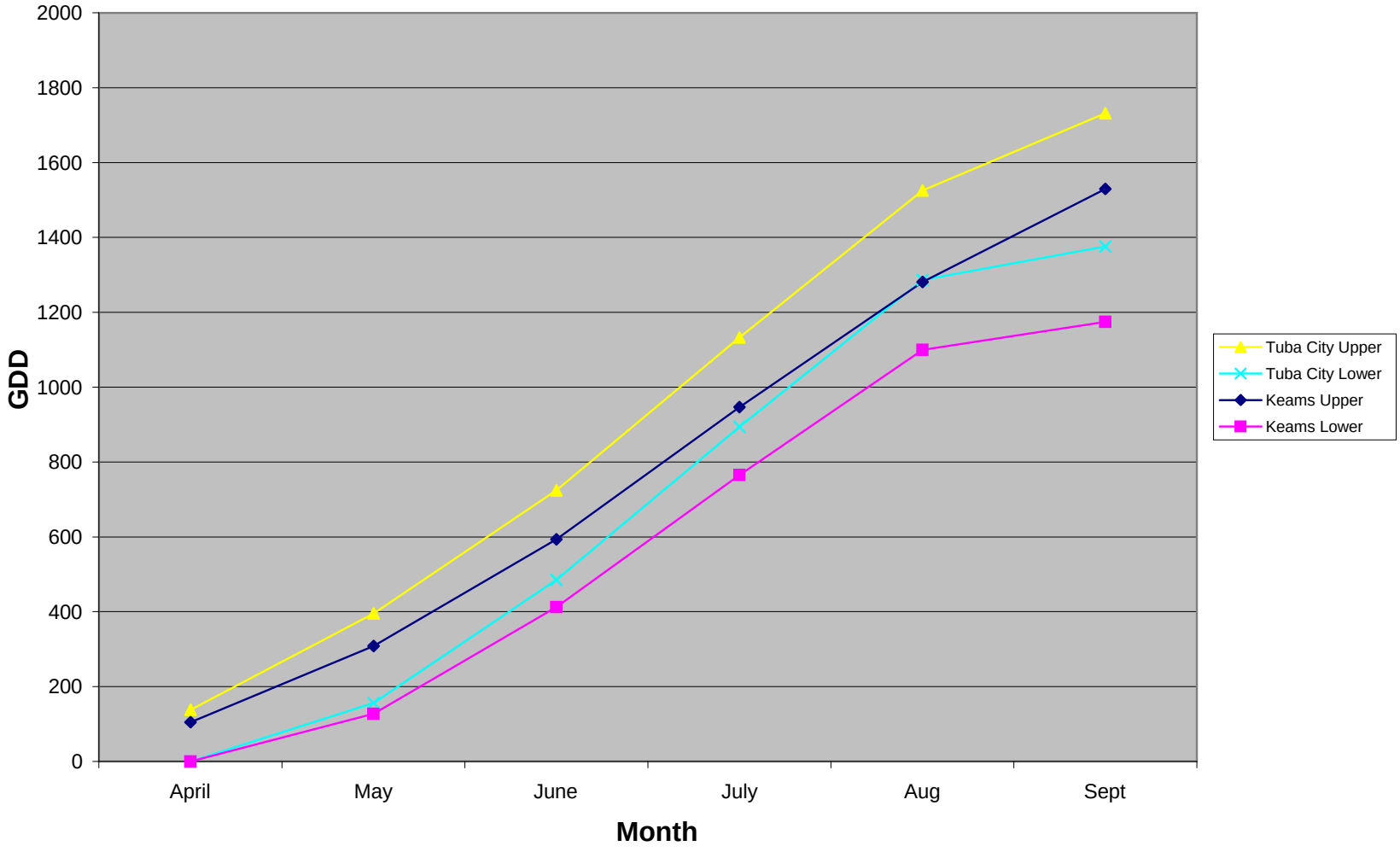


Figure 2.9: Cumulative GDD for Hopi Reservation



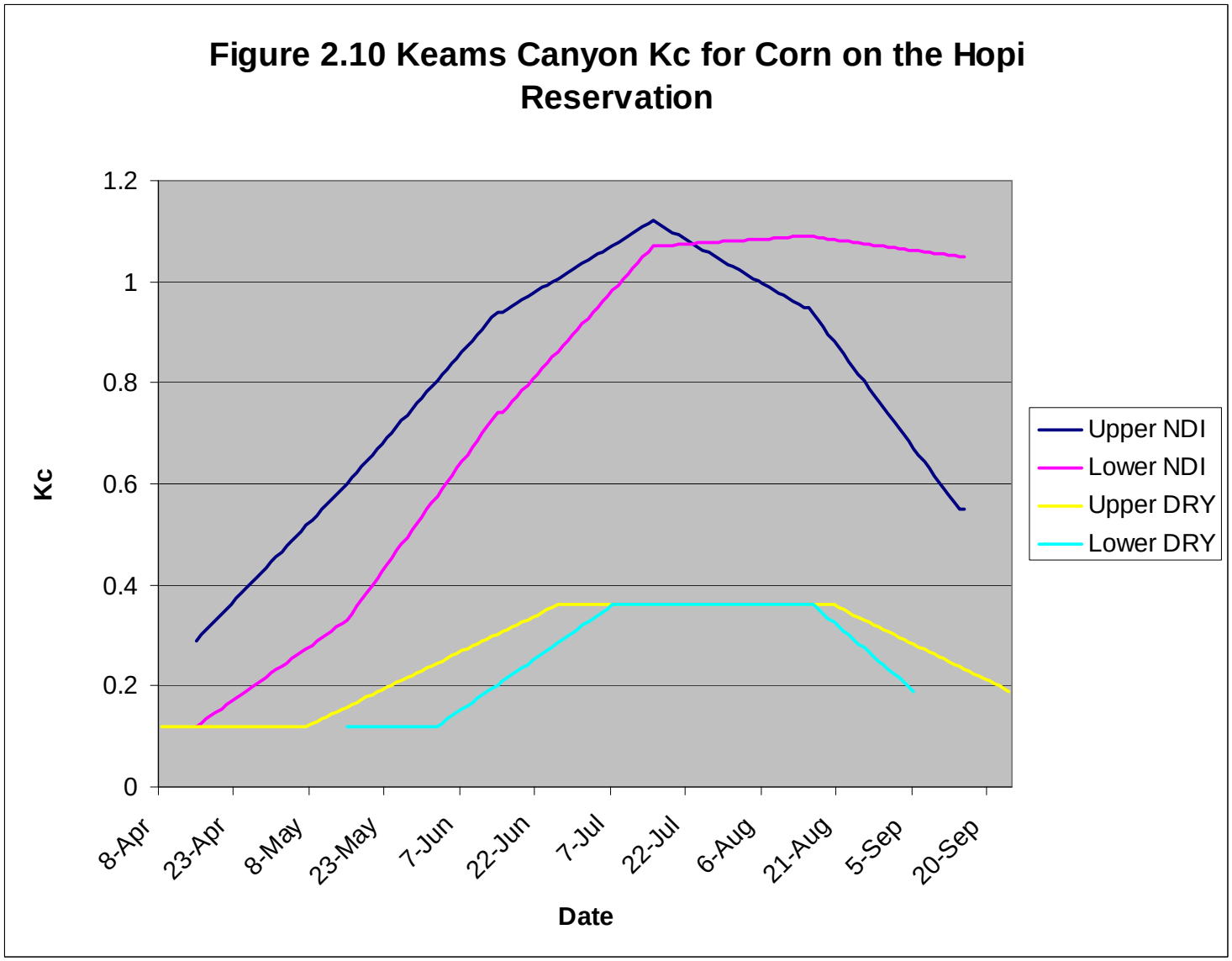


Figure 2.10 Keams Canyon Kc for Corn on the Hopi Reservation
1.2
1
0.8
0.6
0.4
0.2
0
Kc
8-Apr
23-Apr
8-May
23-May
7-Jun
22-Jun
7-Jul
22-Jul
6-Aug
21-Aug
5-Sep
20-Sep
Date
Upper NDI
Lower NDI
Upper DRY
Lower DRY

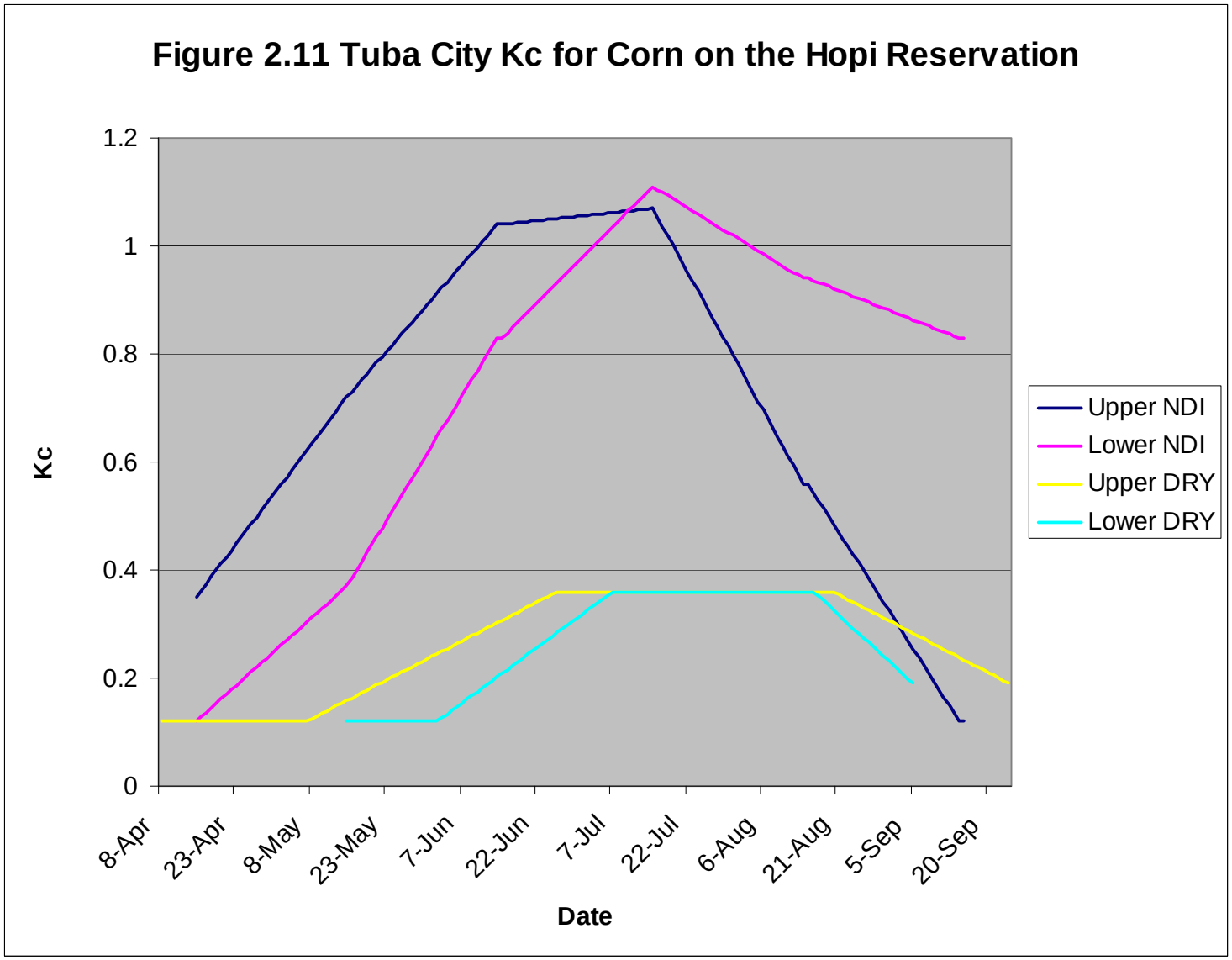


Figure 2.11 Tuba City Kc for Corn on the Hopi Reservation
1.2
1
0.8
0.6
0.4
0.2
0
Kc
8-Apr
23-Apr
8-May
23-May
7-Jun
22-Jun
7-Jul
22-Jul
6-Aug
21-Aug
5-Sep
20-Sep
Date
Upper NDI
Lower NDI
Upper DRY
Lower DRY

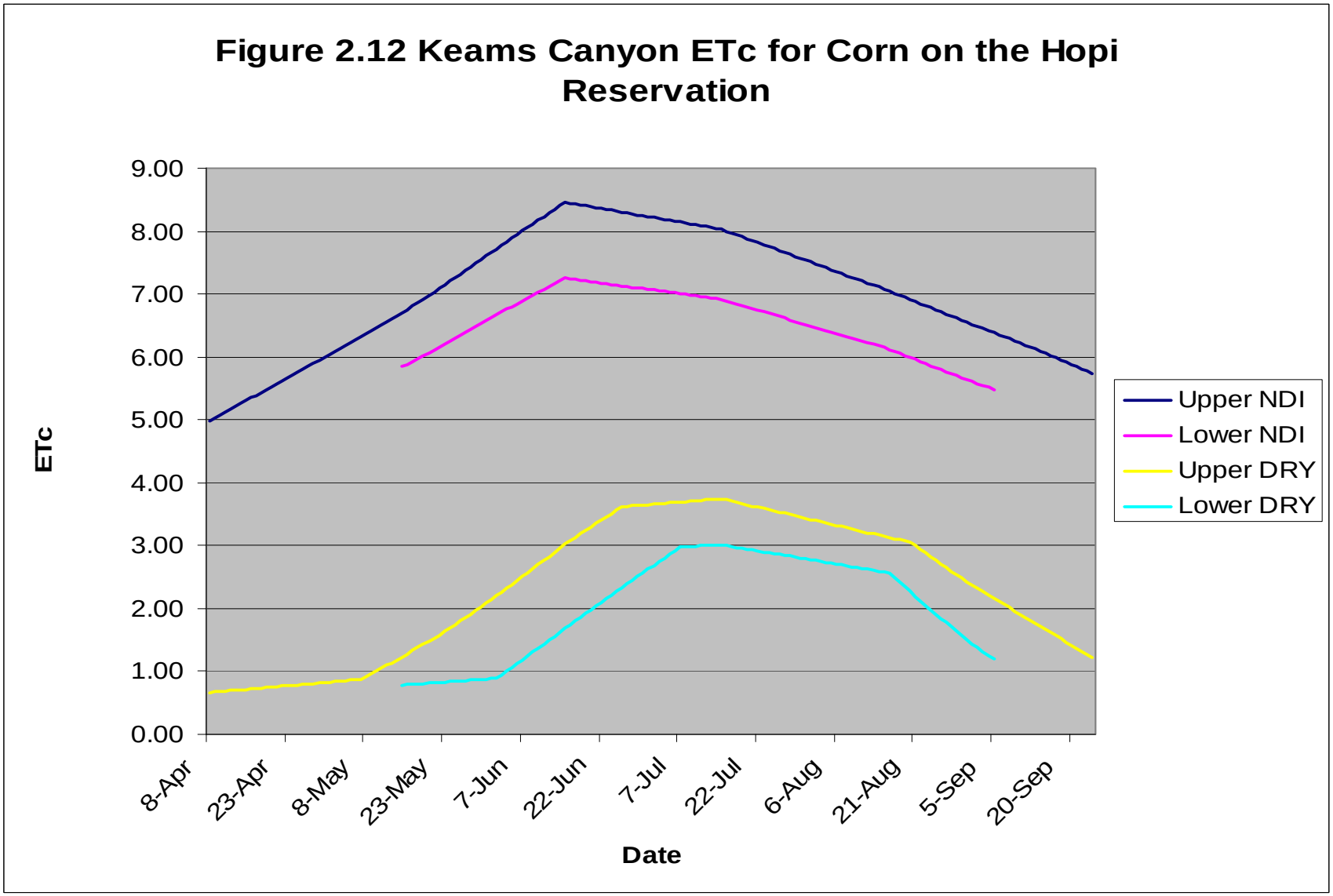


Figure 2.12 Keams Canyon ETc for Corn on the Hopi Reservation
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
ETc
8-Apr
23-Apr
8-May
23-May
7-Jun
22-Jun
7-Jul
22-Jul
6-Aug
21-Aug
5-Sep
20-Sep
Date
Upper NDI
Lower NDI
Upper DRY
Lower DRY

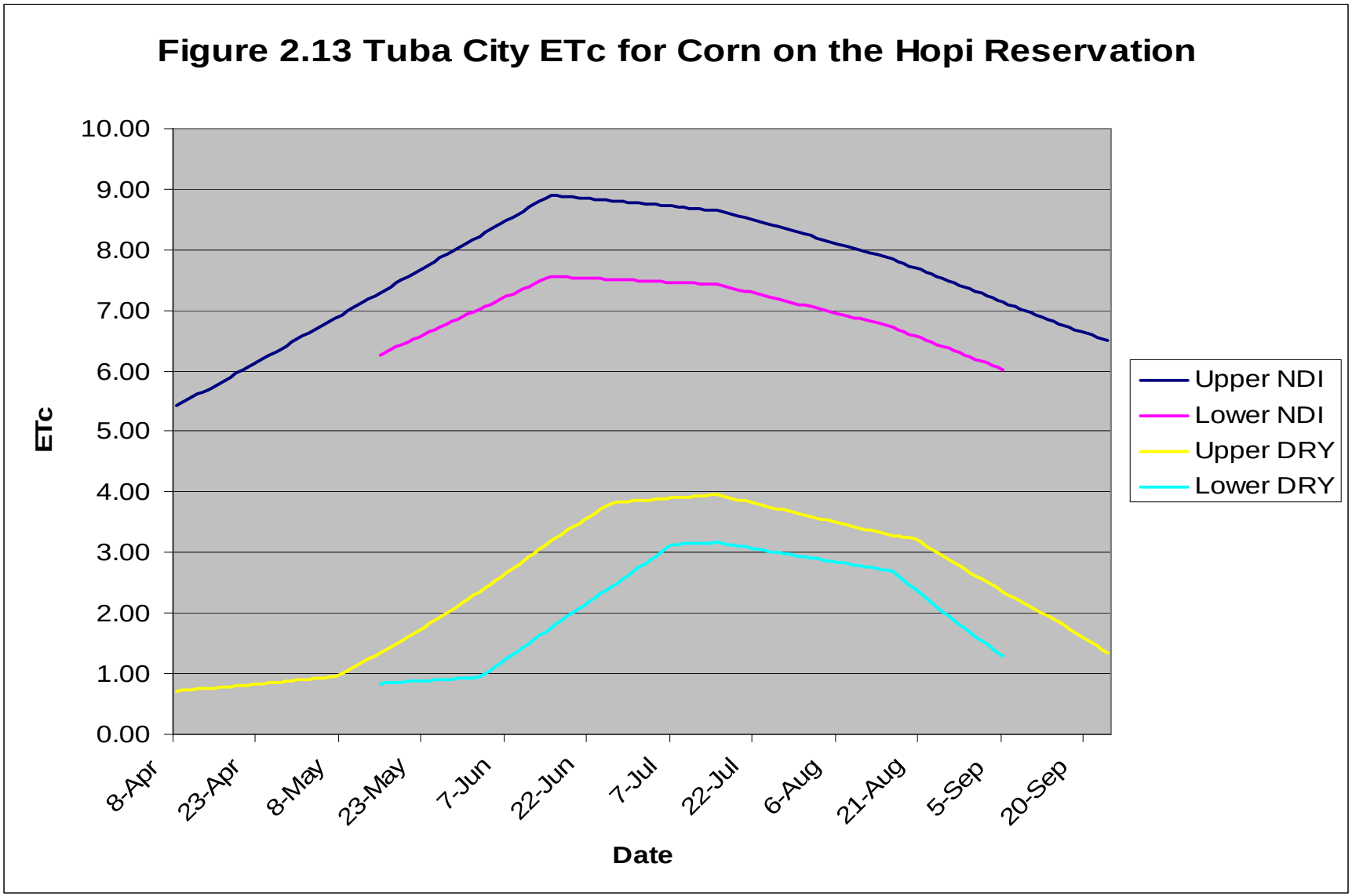


Figure 2.13 Tuba City ETc for Corn on the Hopi Reservation
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
ETc
8-Apr
23-Apr
8-May
23-May
7-Jun
22-Jun
7-Jul
22-Jul
6-Aug
21-Aug
5-Sep
20-Sep
Date
Upper NDI
Lower NDI
Upper DRY
Lower DRY

Figure 2.14 Keams Canyon ETc for Hopi Beans

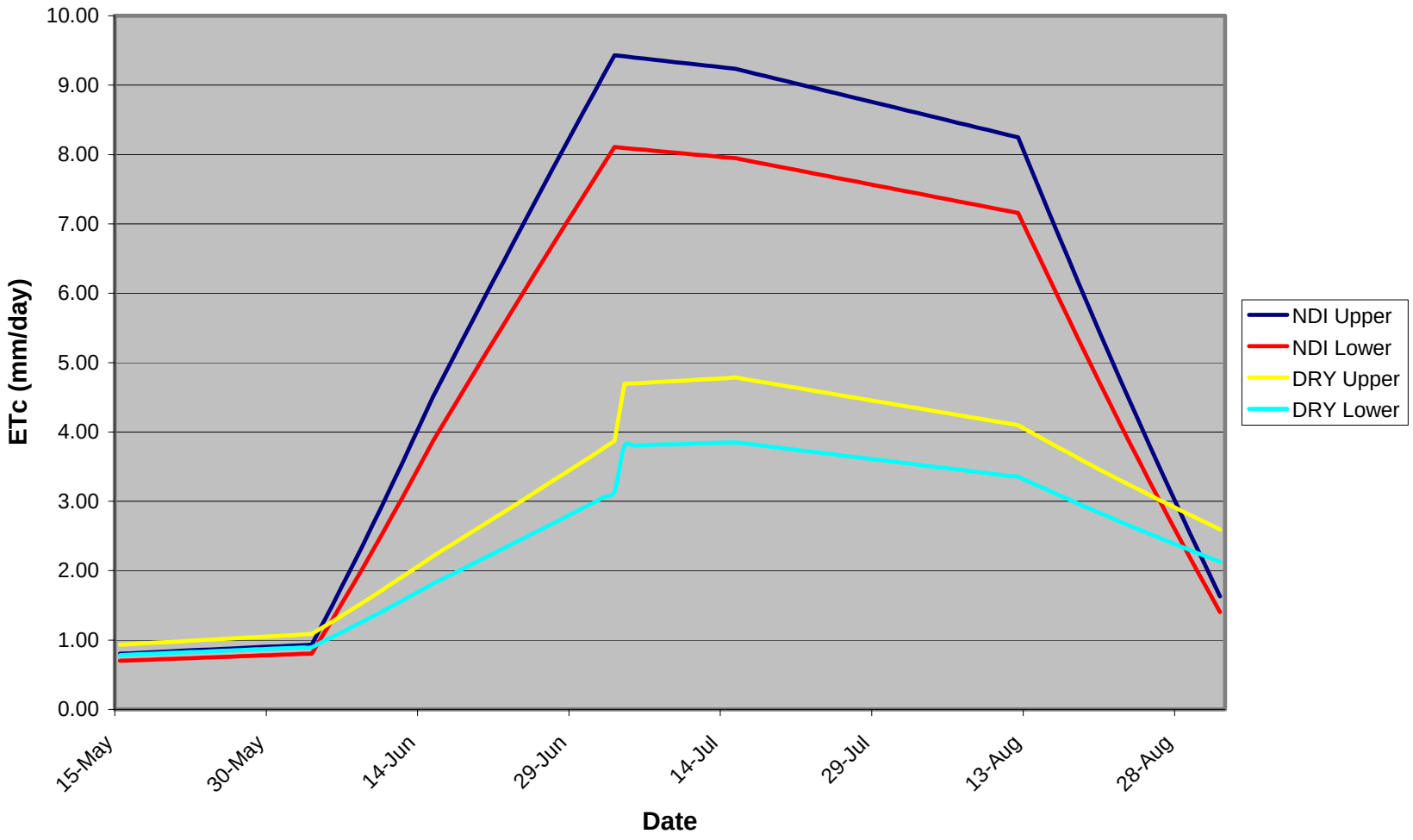


Figure 2.15: Tuba City ETc for Hopi Beans

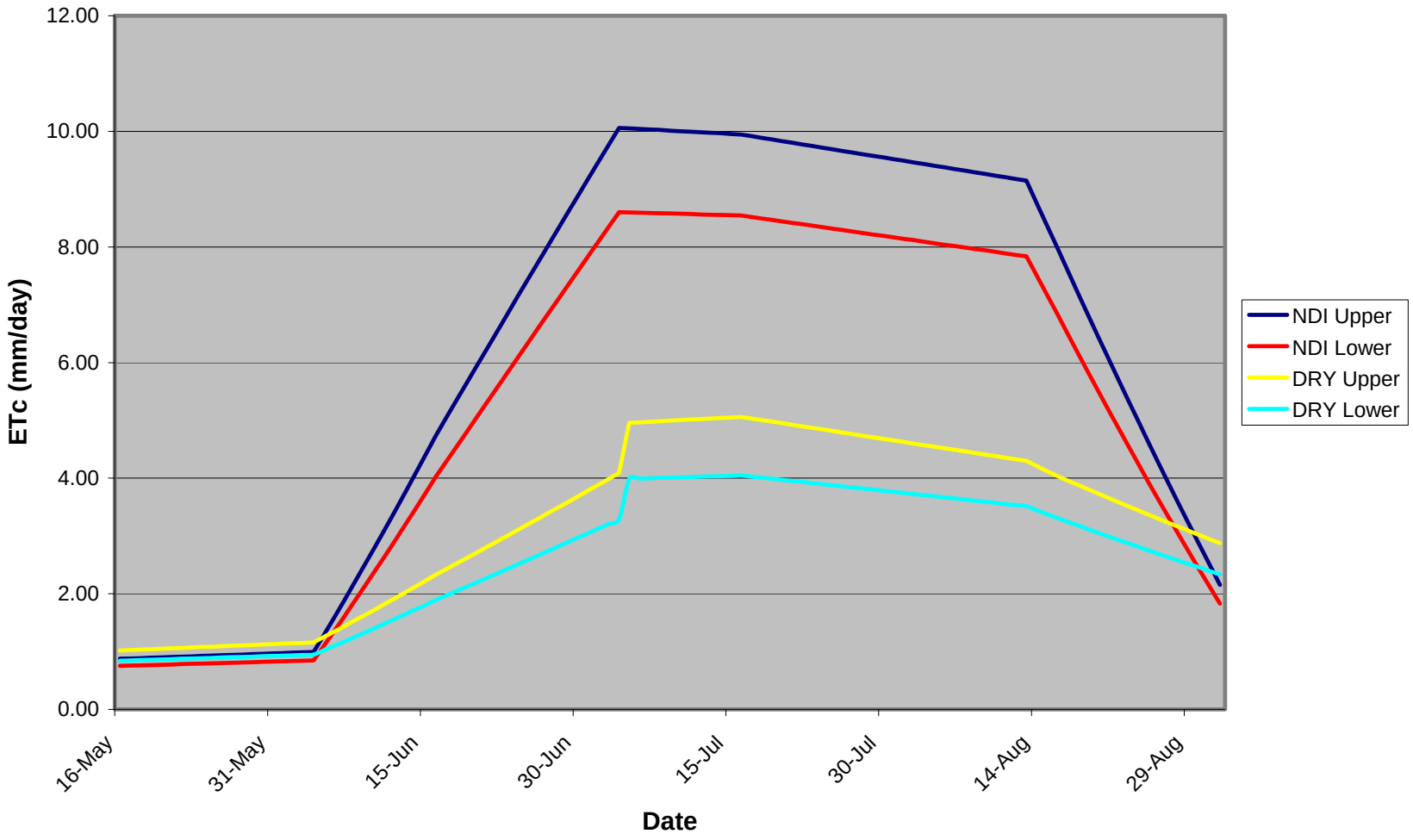


Figure 2.14 Tuba City ETc for Hopi Orchards

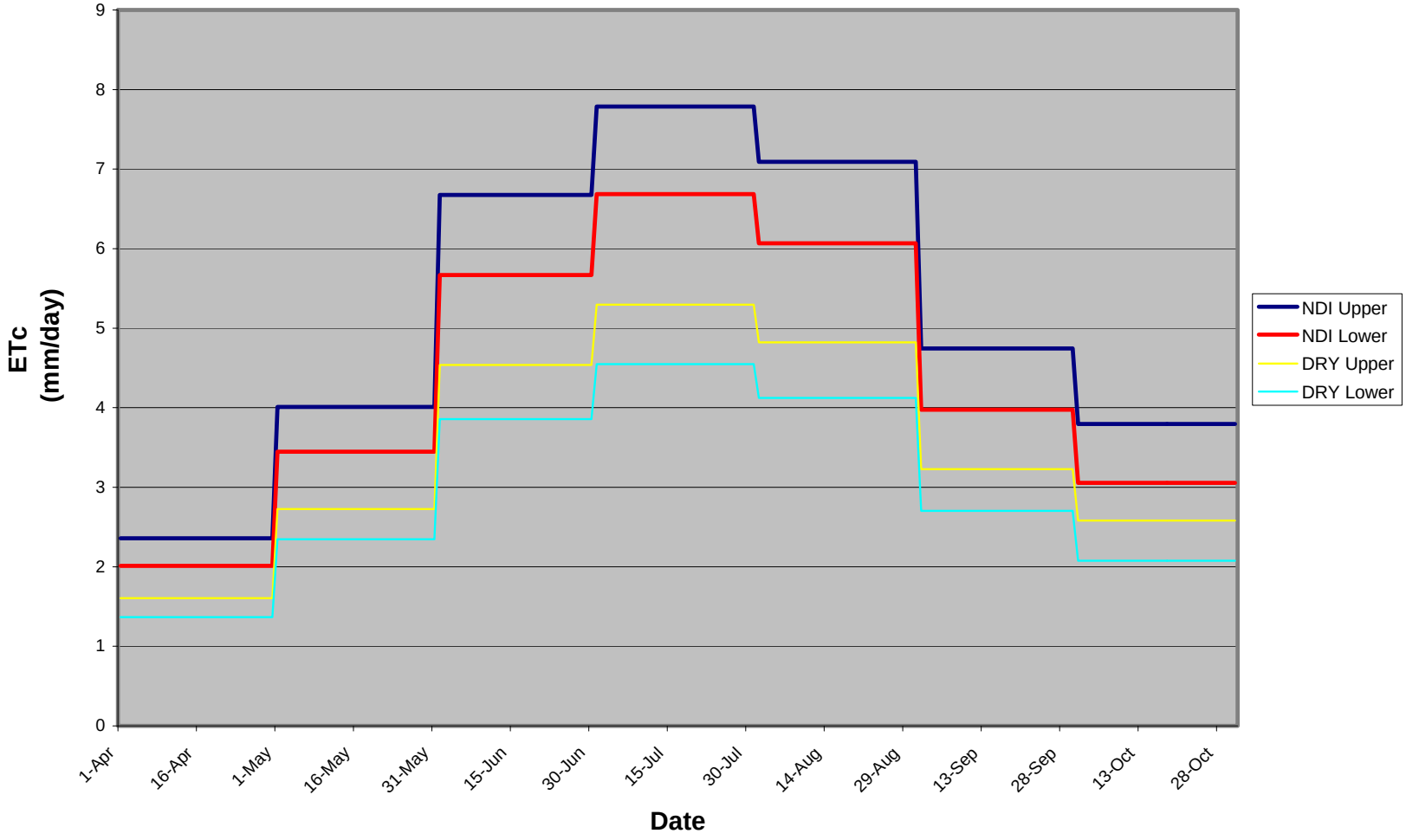


Figure 2.17: Keams Canyon ETc for Hopi Orchards

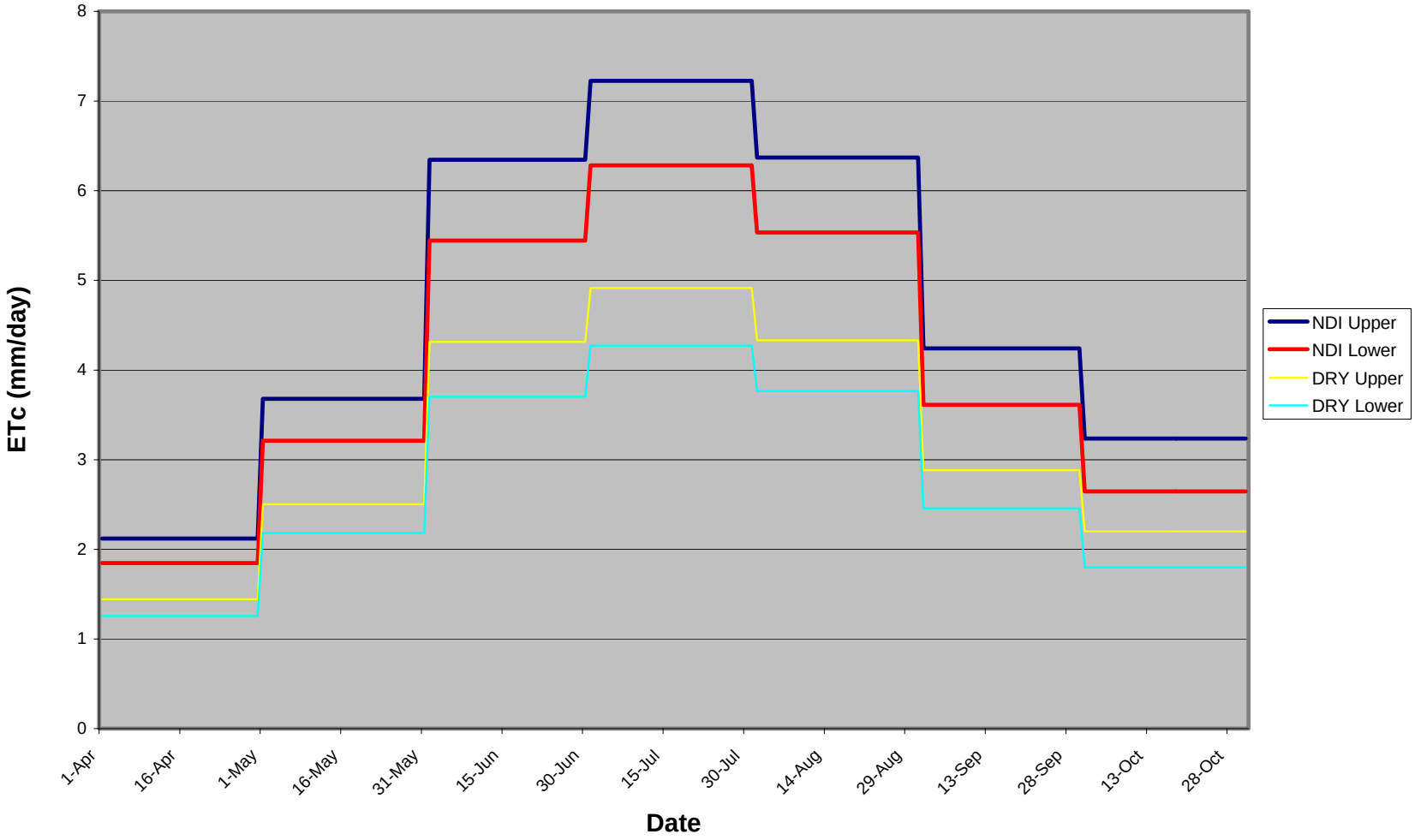


Figure 2.18: Keams Canyon ETc for Hopi Melons

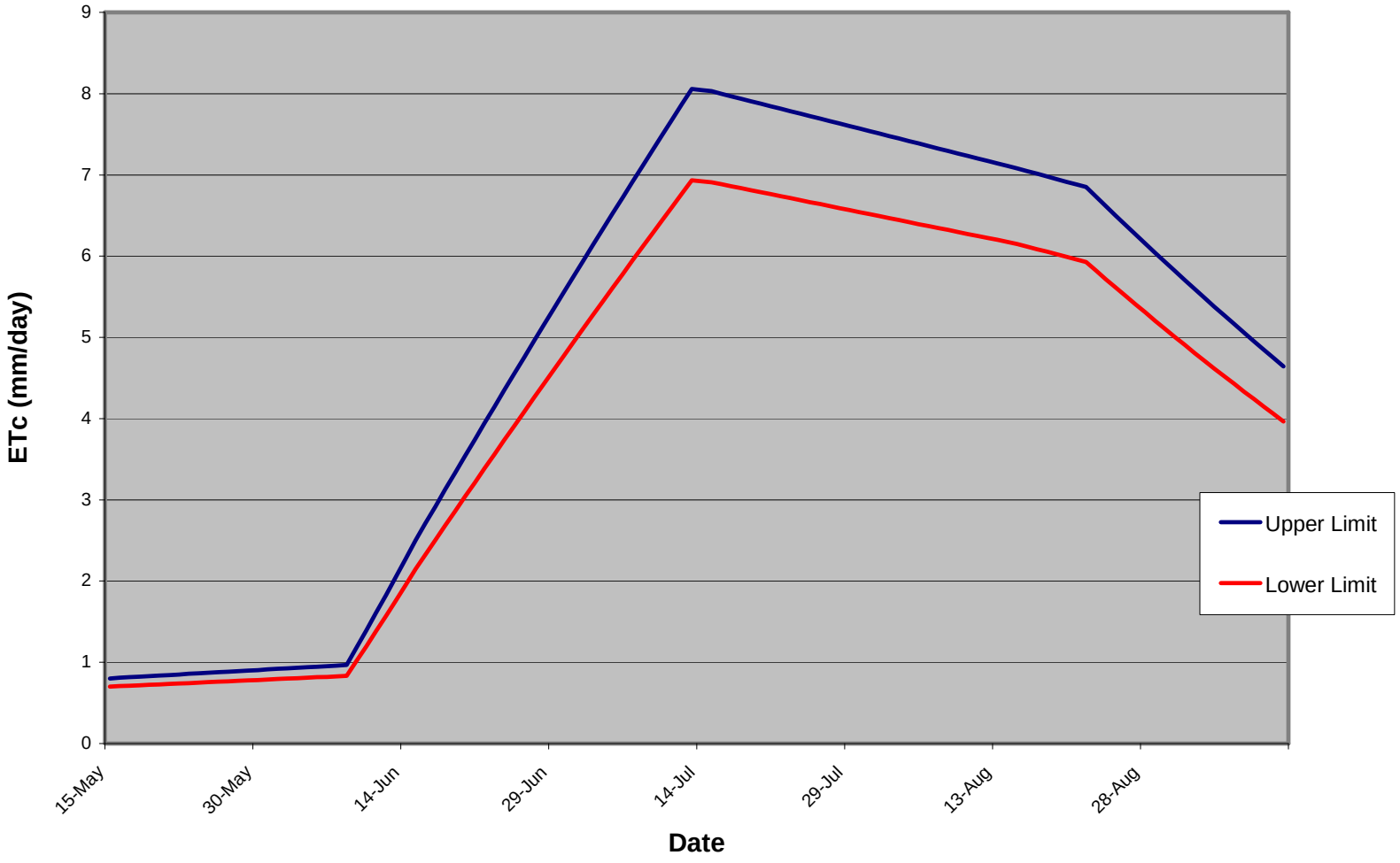
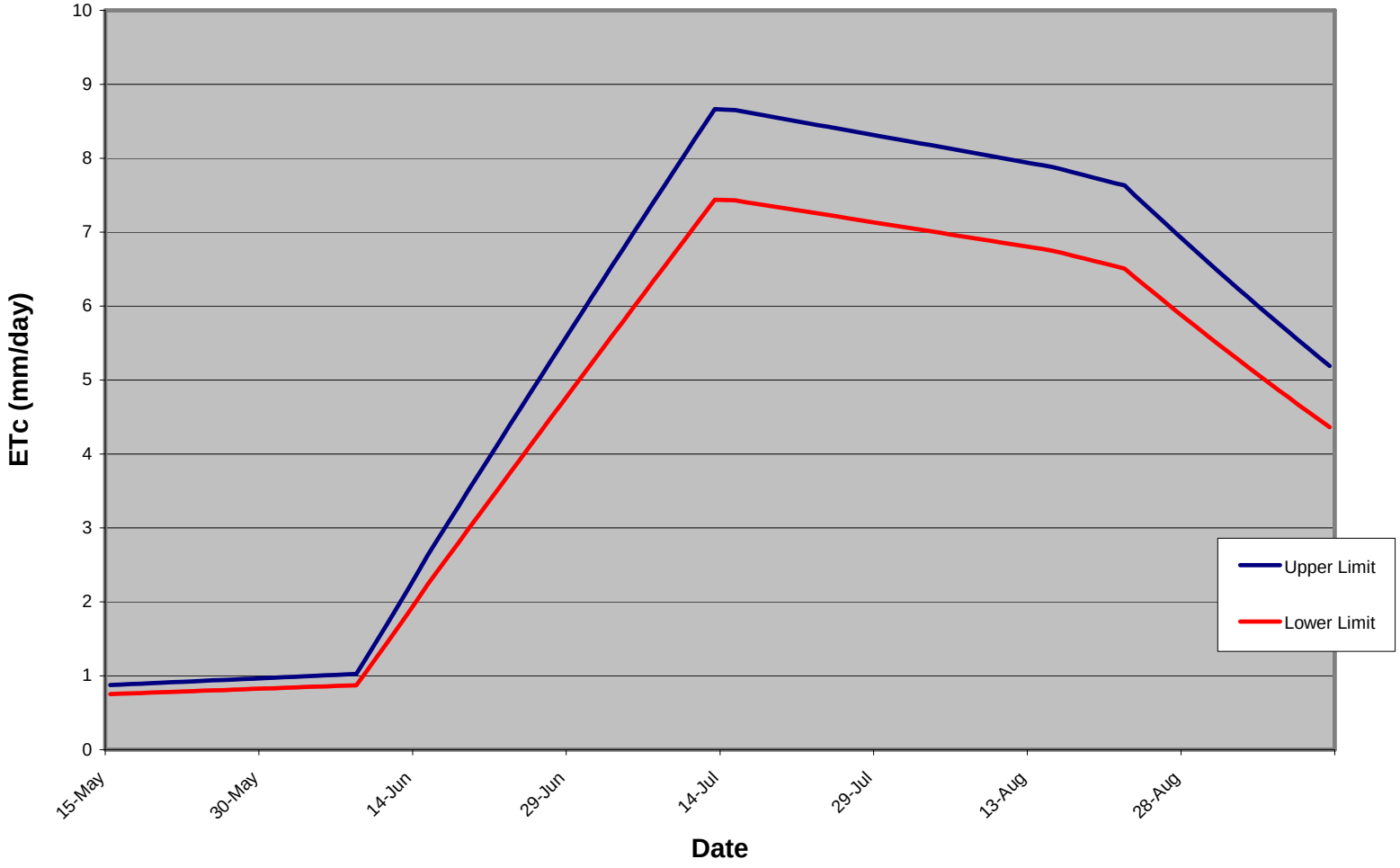
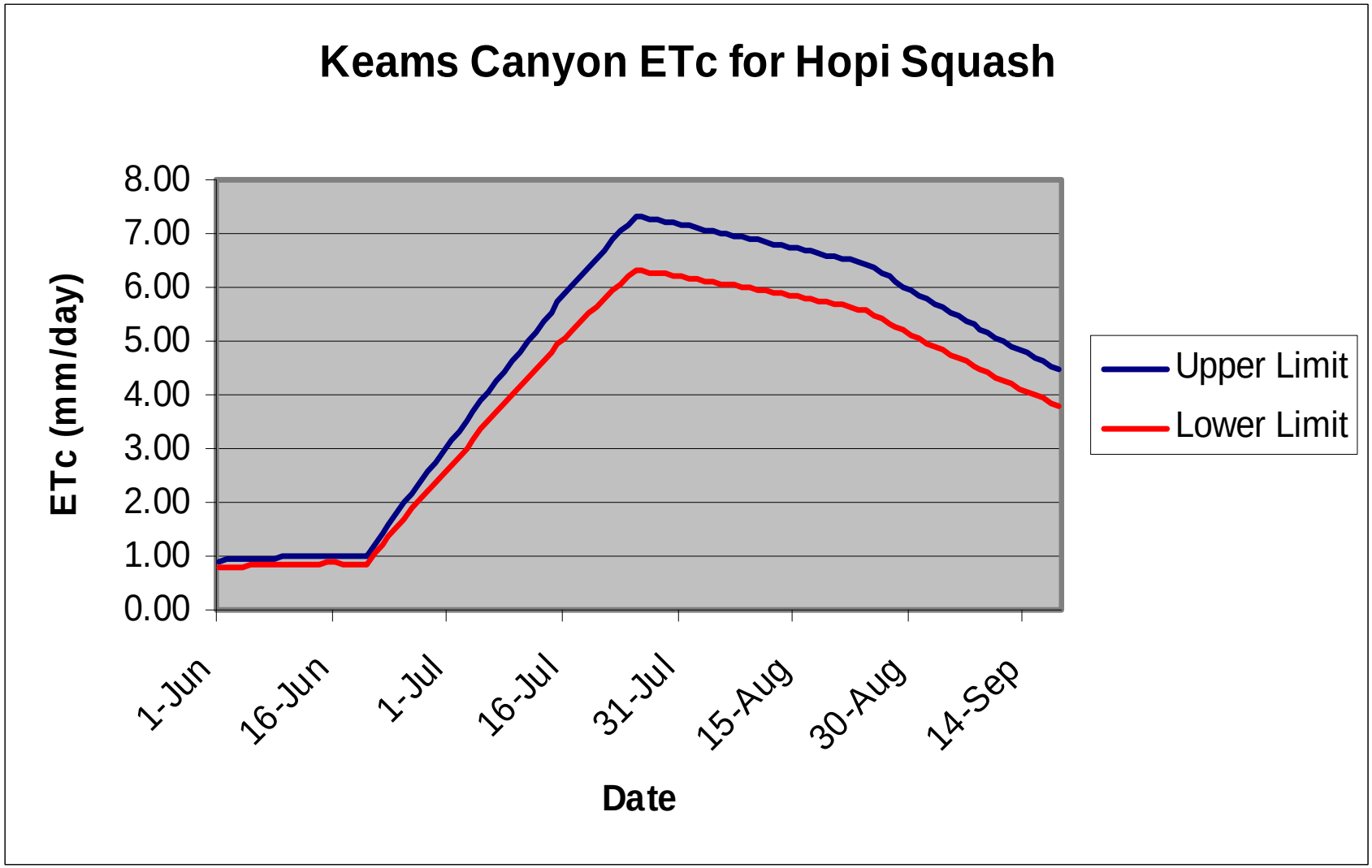
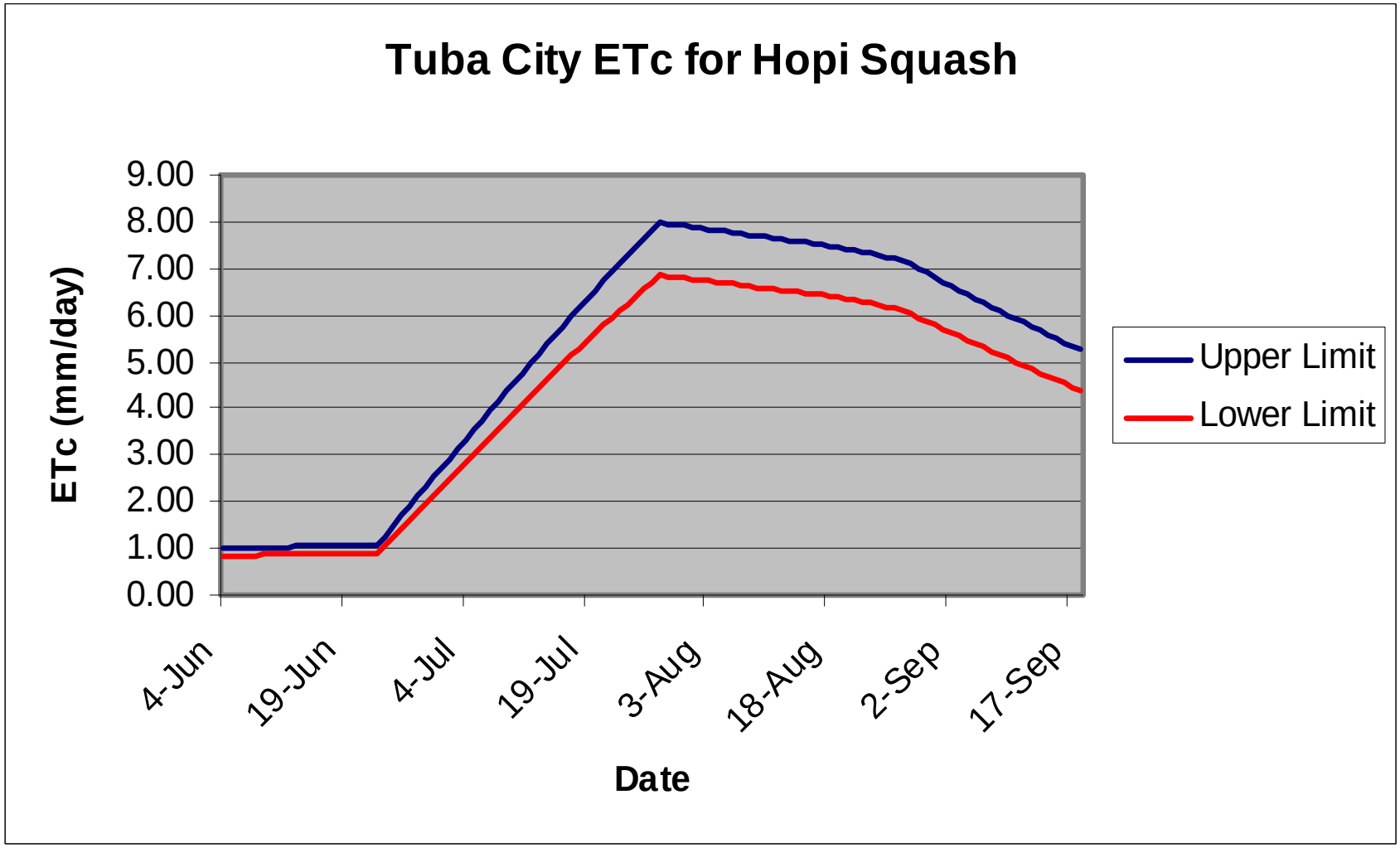


Figure 2.19: Tuba City ETc for Hopi Melons




Keams Canyon ETc for Hopi Squash
ETc (mm/day)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1-Jun
16-Jun
1-Jul
16-Jul
31-Jul
15-Aug
30-Aug
14-Sep
Date
Upper Limit
Lower Limit


Tuba City ETc for Hopi Squash
ETc (mm/day)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
4-Jun
19-Jun
4-Jul
19-Jul
3-Aug
18-Aug
2-Sep
17-Sep
Date
Upper Limit
Lower Limit

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Appendices

APPENDIX A

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JAN 30 2004
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DEPT OF WATER RESOURCES

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 **THE HOPI TRIBE'S AMENDED STATEMENT OF CLAIMANT**

DESCRIPTIVE SUMMARY:	Amended Statement of Claimant of Hopi Tribe filed pursuant to Court Order dated July 16, 2002 and Minute Entry dated May 9, 2003.
NUMBER OF PAGES:	34
DATE OF FILING:	Original transmitted to Arizona Department of Water

I. INTRODUCTION

Pursuant to Paragraph 5 of the Court's Order dated July 16, 2002 and Minute Entry dated May 9, 2003, the Hopi Tribe hereby submits its Amended Statement of Claimant. This

B. Surface Water for Irrigation

1. Past and Present Irrigation

The Hopi Tribe claims the right to divert 49,206 acre-feet of water annually from the five washes and minor tributaries that flow from north to south through the Hopi Reservation to irrigate 38,556 acres as shown in Table 1. The five washes are Moenkopi, Dinnebito, Oraibi, Polacca and Jeddito. On average, the irrigation diversion is 28,700 acre-feet per year. However, the Tribe claims the maximum quantity needed to irrigate all of the past and presently irrigated acreage in order to provide an adequate water supply for irrigation in years) when that water is not available. Table 1 identifies the different types of irrigation and the number of acres in each category, and Table 2 shows the claims by source of supply, i.e. wash. Locations of acreage for past and present irrigation for the Hopi 1882 and 1934 Reservation Areas are shown on Figures 4 and 5. These claims are based on the work of the experts retained by the United States, which is discussed in additional detail in the United States' Amended Statement of Claimant on Behalf of the Hopi Tribe.

from Moenkopi Wash. Location of this project is shown in Figure 6.

3. Future Irrigation from the Main Stem of the Little Colorado

The Hopi Tribe claims 21,060 acre-feet annually from the main stem of the Little Colorado River to irrigate 7,400 acres of land on the 1882 Reservation. An off-stream storage reservoir complex of 11,500 acre-feet capacity is required to firm up direct flow water supplies from the main stem of the Little Colorado. Location of the project is shown in Figure 7.

4. Evaporative Uses and First Fillings for Irrigation Storage Facilities

The Hopi Tribe claims the right for first-filling and to replace evaporative losses for the projects identified in Section X.B.2 and 3. The Tribe claims 15,700 acre-feet of water for the first time filling of reservoirs and 2,842 acre-feet annually for evaporation from the proposed storage facilities.

C. Ceremonial and Subsistence Irrigation

The Tribe claims 12,546 acre-feet per year for future irrigation of small family garden plots for ceremonial and subsistence purposes. Such ceremonial and subsistence gardens have historically and contemporaneously been located near the villages. Future gardens would require a total of 3,136 acres of arable land surrounding the villages, as follows: Moenkopi – 754 acres, Hotevilla – 386 acres, Bacavi – 197 acres, Kykotsmovi and Old Oraibi – 647 acres, First Mesa Villages – 542 acres, Second Mesa Villages – 484 acres, Keams Canyon – 126 acres. Subject to Section X.J., the source is groundwater.

D. Domestic, Commercial, Municipal and Industrial Use (DCMI)

For future domestic, commercial, municipal, and industrial (DCMI) uses of water, the

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IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF APACHE

IN RE: THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE LITTLE COLORADO RIVER SYSTEM AND SOURCE	CIVIL NO. 6417 UNITED STATES' AMENDED STATEMENT OF CLAIMANT ON BEHALF OF THE HOPI TRIBE

DESCRIPTIVE SUMMARY:	Amended Statement of Claimant on behalf of the Hopi Tribe filed pursuant to Minute Entry, dated May 9, 2003.
NUMBER OF PAGES:	15
DATE OF FILING:	Original transmitted to Arizona Department of Water Resources via Federal Express overnight delivery on January 29, 2004.

1. *Technical basis for past and present irrigated acreage claim.*

The Hopi Tribe has historically irrigated and continues to irrigate crops on the Hopi Reservation. The past and present irrigated acreage was identified based on interpretation of aerial photos taken since 1934 and field assessment. These identified lands were divided into five irrigation types based on water source and crop as follows:

Perennial Irrigation - Perennial surface water available to the parcel, conveyed by permanent structures.

Seasonal Irrigation - Seasonal surface water available to the parcel and used on planted fields; water is conveyed by structures ranging from temporary and/or permanent spreader dikes to diversion with ditches.

Range Pasture Irrigation - Seasonal surface water available to the parcel and used to improve range for pasture; water is conveyed by structures ranging from temporary and/or permanent spreader dikes to diversions with ditches.

Native Irrigation - Seasonal surface water available to the parcel with minimal water control structures; water arrives at the parcels by strategic placement of the parcel rather than by conveyance of the water.

Spring Irrigation - Perennial groundwater available to the parcels obtained and distributed from a spring.

The Hopi Tribe also crops land that is not irrigated and relies upon precipitation. These precipitation farmed lands were identified, but are not associated with a water right claim.

The seasonal water supplies in the five northern washes for 1950 through 1993 were estimated using the Precipitation Runoff Modeling System (PRMS) created by the United States Geological Survey. The PRMS model estimates daily runoff based on precipitation, temperature, solar radiation, and physical characteristics of the area being modeled. Crop water requirements were estimated using the Modified Jensen-Haise method to determine evapotranspiration (ET)

adjusted by crop coefficients based on crop type, typical planting dates, and cultural cropping practices. The irrigation diversions and irrigation depletions were estimated using a deficit irrigation simulation model that considers the available flows (from PRMS) for irrigation and potential crop ET. The model tracks soil moisture and adjusts crop ET based on soil moisture. A deficit irrigation model was used because full water supplies for the crops are seldom available. The seasonal water supply limits irrigation diversions and depletion. The past and present irrigation claim is for the maximum estimated diversion for irrigation during the period of analysis.

The water supply for perennial and spring irrigation is usually available throughout the irrigation season (April through September). However, because of the nature of springs and the fact that the perennial flows occur only in sections of the washes, a full irrigation supply is not always available. The irrigation supply for these lands was therefore estimated to be 90 percent of the irrigation requirement.

2. *Outline of the past and present irrigation claim*

The following two tables outline the past and present irrigation claim. Table 1, Presently and Historically Irrigated Acreage in the Five Wash Basins through the Hopi Reservation, designates the past and present irrigated acreage divided by wash. Table 2, Estimated Irrigation Depletion and Diversion for Presently and Historically Irrigated Lands on the Hopi Reservation, outlines the irrigation depletion and diversion in both average and maximum years.

In addition, a map labeled Presently and Historically Irrigated Lands is enclosed as Appendix 8 in order to provide an overview of the irrigated acreage based on the GIS coverages created from interpretation of historical photos. The GIS coverages themselves are available for review if ADWR determines such coverages would be helpful.

Table 1

Presently and Historically Irrigated Acreage in the five wash basins through Hopi Reservation.

Wash	Perennial (acres)	Seasonal (acres)	Range Pasture (acres)	Native (acres)	Spring (acres)	Precipitation Farming (acres)	Total (acres)
Moenkopi Main Reservation	16	121	334	2,002	23	1	2,497
Moenkopi Island	548	0	0	433	8	0	989
Dinnebito	0	1,375	359	5,107	97	333	7,271
Oraibi	0	1,653	4,052	4,910	0	455	11,070
Polacca	0	1,645	1,970	8,660	22	252	12,549
Jadito	0	1,392	807	1,926	1	1	4,127
Minor Tributaries				53			53
TOTAL	**564**	**6,186**	**7,522**	**23,091**	**151**	**1,042**	**38,556**

Minor tributaries is a small area of the Hopi Reservation drains directly to the Lower Colorado River rather than a major wash.

Precipitation Farming does not have a diversion or depletion from washes.

There is no irrigation from wells on the Hopi Indian Reservation.

Table 2

Estimated Irrigation Depletion and Diversion for Presently and Hisortically Irrigated Lands on the Hopi Indian Reservation

	Irrigation Depletion		Irrigation Diversion	
Wash	Average (ac ft/yr)	Maximum (ac-ft/yr)	Average (ac-ft/yr)	Maximum (ac-ft/yr)
Moenkopi Main Reservation	2,084	2,440	2,772	3,246
Moenkopi Island	1,310	1,535	1,468	1,795
Dinnebito	3,961	6,552	5,280	8,714
Oraibi	5,384	9,865	5,384	13,120
Polacca	7,218	11,869	9,622	15,786
Jadito	2,936	4,790	3,914	6,371
Minor Tributary	37	59	49	104
TOTAL	**22,930**	**37,110**	**28,489**	**49,136**

APPENDIX B

Natural Resources Consulting Engineers, Inc.
131 Lincoln Ave, Suite 300
Fort Collins, CO 80524
Phone: (970) 224-1851, Fax: (970) 224-1885

DRAFT MEMORANDUM

Date: October 29, 2007

To: Vanessa Boyd Willard, Esq.
Indian Resources Section
United States Department of Justice
Denver, Colorado

From: L. Niel Allen, Ph.D, P.E.
Natural Resources Consulting Engineers, Inc.

RE: Responses to Arizona Department of Water Resources Questions Regarding Hydrological Modeling on the Hopi Indian Reservation

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In January 2004, the United States Department of Justice (DOJ) submitted an amended Statement of Claimant for water rights on behalf of the Hopi Tribe to the Superior Court of the State of Arizona in and for the County of Apache. The Statement of Claimant regards the general adjudication of all rights to use water in the Little Colorado River system and sources. As part of the adjudication, the Arizona Department of Water Resources (ADWR) is in the process of preparing a hydrographic survey report of water uses on the Hopi Indian Reservation. ADWR is using the claims submitted by the United States along with other information to prepare the hydrographic survey.

Natural Resources Consulting Engineers, Inc. (NRCE) provided a summary of the estimation of flows in the northern washes of the Little Colorado River to ADWR through the DOJ in June of 2007. In September of 2007, ADWR provided Vanessa Willard, Esq. of the DOJ in Denver, Colorado a list of questions concerning water supply modeling and irrigation water use on the Hopi Indian Reservation. This memorandum provides responses to the numbered questions.

1. May ADWR obtain a copy of the 2000 NRCE report entitled Historical/Present Irrigation Water Uses of the Navajo and Hopi Indian Reservations within the Northern Washes of the Little Colorado River Basin?

NRCE has been advised by the DOJ that the 2000 report entitled *Historical/Present Irrigation Water Uses of the Navajo and Hopi Indian Reservations within the Northern Washes of the Little Colorado River Basin* (Report) is not being made available at this time.

2. Which meteorological stations were used to obtain precipitation and other data needed to estimate crop evapotranspiration (ET)?

Climate stations selected for use in the study were on the basis of length and continuity of record and location within the study area. The period of analysis was from 1950 through 1993. The National Weather Service stations used in this study were:

- Cameron 1 NNE (#1169)
- Gallup 5 E (#3420)
- Ganado (#3303)
- Keams Canyon (#4586)
- Leupp (#4872)
- Petrified Forest N.P. (#6468)
- Sanders (#7488)
- Sanders 11 ES (#7496)
- Window Rock 4 SW (#9410)

Regression analyses between stations were used to fill in missing temperature and precipitation data so that each site had a full set of data from 1950 through 1993.

The reference ET was estimated in the Precipitation Runoff Model Simulation (PRMS) model using the Modified Jensen-Haise method, which is based on daily temperature and solar radiation data. The daily temperatures for each sub-basin are based on the National Weather Service data. The solar radiation was estimated based on a procedure selected for use in the PRMS model. The method is based on the maximum daily temperature, degree-day relationships for specific months of the year, and a corresponding ratio of actual to potential daily solar radiation as described in the PRMS User's Manual (Leavesley et. al, 1983).

The 869 hydrologic response units (HRUs) were each assigned to the station nearest in elevation to the mean HRU elevation. The station precipitation was then adjusted using a lapse rate and an adjustment due to differences in latitude.

3. What was the source(s) for the crop coefficient (Kc) values used in the ET calculations, and what crop mix was assumed on the reservation?

The historically irrigated lands on the Hopi Reservation were categorized based on crop group, irrigation practices, and water source. The two crop groups are fields planted with cultivated crops and range pasture. The two water supplies are seasonal or perennial.

Seasonal Water Supply

The seasonal water supplies are based on the PRMS model output. The ET potential for the planted fields was based on the calculated ET for corn. Corn is the principal crop, with other crops such as beans and squash having a similar ET. Crop coefficients for corn were obtained from the United Nations Food and Agricultural Organization (FAO) Publication 24 (Doorenbus and Pruitt, 1977) and University of California Publication 21454 (University of California, 1989). Corn crop coefficients were divided by 1.2 to adjust from a grass-based reference ET method to the alfalfa-based Jensen-Haise method and were subsequently reduced by 30 percent to account for field conditions.

The 30 percent reduction in Kc is used to account for the plant density that is much less than that used to develop published crop coefficients. For example, on the farmed area in the Northern Washes, corn plants are spaced on about 4- to 5-foot rows with spacing of about 3 feet between plant clusters, as compared to typical 2.5-foot row spacing and 0.75- to 1-foot plant spacing along the rows. Another consideration is that once crops become stressed due to lack of soil moisture, plant growth can become stunted, and plants lack the growth and vigor required to transpire water at their potential. The deficit irrigation conditions prevalent on lands irrigated from the Northern Washes often result in low soil moisture conditions that limit the uptake of water by crops.

Crop coefficients for native range were assumed to be the same as for short pasture, as listed in *Consumptive Use of Irrigated Crops in Utah* (Hill, 1994). The following table is an example of cropping dates and crop coefficients used in the deficit irrigation simulation model (DISM). The cropping dates varied between sub-basins.

Example of Cropping Dates and Crop Coefficients

Crop Type	Cropping Dates[a]				Crop Coefficients[b]			
	A	B	C	E	Kc1	Kc2	Kc3	%
Corn[c]	JUN 01	JUN 18	JUL 27	SEP 28	.16	.95	.33	90
Native Range	APR 01	APR 20	MAY 15	SEP 15	.30	.68	.40	77

[a] *Cropping Dates* - A = planting, B = 10 percent ground shading, C = 75 percent ground shading, E = transpiration ceases or harvest. Date D (not listed) is a calculated date that Kc begins to decrease linearly to Kc3 .

[b] *Crop Coefficients* - Kc1 = crop coefficient from date A to B, Kc2 = crop coefficient from C to D, and Kc3 = crop coefficient at date E, % = percent of growing season from A to D. The crop coefficients between dates B and C are a linear interpolation between Kc1 and Kc2, and the crop coefficients between dates D and E are a linear interpolation between Kc2 and Kc3.

[c] Corn - Although several crops are grown on land that has seasonal irrigation, corn is the principal crop. The water requirements of corn are similar to the other crops; therefore, the cropping dates and crop coefficients of corn were used in the DISM.

Perennial Water Supply

The perennial irrigation on the Hopi Reservation is about 2 percentage of the total historically irrigated land. The land is cropped, and corn is the major crop. The crop ET for the perennial irrigation was calculated using the methodology described above; however, the Kc values were reduced by 20 percent instead of 30 percent to account for more favorable field conditions in areas irrigated from perennial water supplies in comparison to fields irrigated from seasonal water supplies.

Perennial irrigation indicates water is available for irrigation to meet most of the crop ET needs. Due to annual variability in perennial flows, it was assumed that 90 percent of the net irrigation requirements were met on an annual basis by perennial flows, springs, and seeps. It was also assumed that 95 percent of the net irrigation requirement would be met for irrigated lands that are supplied water from wells.

4. What period of record for streamgage SW25 was used to calibrate the PRMS model, and can model error summaries be provided?

Available flow data from station SW25 Peabody for the period of February 1989 through December 1995 were used for calibration. The following table provides a comparison of statistics between measured and predicted data sets. The measured and predicted values are not paired due to the nature of the PRMS model and therefore a regression analysis is not applicable. The data set compares flow rate values over 1 cubic feet per second (cfs).

Statistics of Measured and Predicted Values at Gaging Station SW25 Coal Mine Wash.

Statistic	Measured	Predicted
Mean (cfs)	10.9	10.8
Median (cfs)	3.5	5.6
Standard Deviation (cfs)	22.8	15.7
Kurtosis (cfs)	25	22
Skewness (cfs)	4.6	4.1
Range (cfs)	168	124
Minimum (cfs)	1	1
Maximum (cfs)	169	125
Count	138	308

5. Which climate stations were used to assess streamflow conditions for 1950-93 including the station used for model verification at streamgage 9401239?

See the response to question #2.

6. Does NRCE's estimated outflow at the mouth of Polacca Wash include outflows from the Oraibi Wash tributary?

No, all the outflows from the Oraibi, Polacca, and Jadito Washes were calculated before the convergence. Therefore, outflow from Polacca Wash does not include the flow from Oraibi Wash tributary.

As stated in the report: "There are two areas which warrant special attention when examining the results of the natural flow estimation. One area is defined as the region where Oraibi, Polacca, and Jadito washes converge to form Corn Wash. Much of the area at this convergence is devoid of any significant surface drainage features, and thus, flow events are spread out over a large area and much of their volume is lost to seepage and evaporation. Quantifying the extent of these depletions is beyond the intent and scope of the current analysis. Of particular importance in the current study is the hydrology of the washes upstream of this area (i.e. quantifying surface water available for irrigation use within each wash). The diminished flows which actually exit this area do so through Corn Wash, and this study does not attempt to quantify the streamflows ultimately reaching the Little Colorado River from this area."

7. Was PRMS used to estimate flows at active USGS stream gages along Moenkopi, Dinnebito, Oraibi, Polacca, and Jeddito Washes? If so, can ADWR obtain a copy of these estimates?

PRMS was not used to estimate flows at active gage locations. A comparison of undepleted flows from Moenkopi wash for the nearest modeled streamflow point (scaled by basin area) to depleted USGS gage flows is presented in the Report. The gages used in this comparison included #09395350 Puerco River near Church Rock, #09395500 Puerco River at Gallup, #09395900 Black Creek near Lupton, #09396500 Puerco River near Adamana, #09401260 Moenkopi Wash At Moenkopi, #09401280 Moenkopi Wash Near Tuba, #09401400 Moenkopi Wash near Tuba City, and #09401500 Moenkopi Wash near Cameron. No gages were available in any of the washes other than Moenkopi and Puerco River except for two recently installed gages in the Dinnebito and Polacca washes (#09401110 Dinnebito Wash near Sand Springs and #09400568 Polacca Wash near Second Mesa). Unfortunately, the limited data available at these two recently installed gages was insufficient enough to draw any conclusions.

This comparison is shown the following table.

Comparison of PRMS estimated flows and USGS Stream Gage Data

Wash, Gage ID#	PRMS Natural Flow Estimation 1950-1993[1]			USGS Gage Data			
	Drainage Area (sq. miles)	Average Annual Flow (acre-feet)	Adjusted Annual Flow[2] (acre-feet)	Drainage Area (sq. miles)	Period of Record (water years)	Average Record Quality	Average Annual Flow (acre-feet)
Moenkopi, 09401500	1,891	16,245	22,873	2,662	1954-1965	Good	9,990
Moenkopi, 09401400	1,735	15,766	22,649	2,492	1941-1978	Fair	11,167
Moenkopi, 09401280	1,583	14,520	17,459	1,904	1926-1940	Good/Fair	16,340
Moenkopi, 09401260	1,583	14,520	14,937	1,629	1976-1991	Poor	7,736
Puerco, 09396500	2,580	29,067	29,898	2,654	1940-1949	Poor	46,759
Puerco, 09395900	514	6,218	5,979	494	1964-1982	Fair	5,978
Puerco, 09395500	591	7,418	7,009	558	1941-1982	Poor	6,849
Puerco, 09395350	286	3,521	2,705	220	1978-1992	Poor	7,037

[1] PRMS estimate for location closest to USGS gage location.
[2] Area weighted adjustment of average annual flow to match USGS gage drainage

In the above table, the second column from the right lists the overall data quality based on USGS remarks in the annual water data reports. The data quality remarks are described as follows in USGS (2006): *"The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be*

attributed to different parts of a given record." It may be seen from the above table that the USGS data quality is often fair to poor for the gage stations listed. This low data quality increases the uncertainty in comparing the PRMS data to the USGS records.

The main difficulty in using the USGS data in a comparison to the estimated natural flows is that the measured data represents depleted flow values. Even in areas where there are only limited depletions, the measured streamflows also include the effects of changes in hydrologic characteristics such as vegetation and land use. Because statistical characteristics and relationships are best established using longer data sets, an additional difficulty with the USGS data was that many of the gages had only limited data availability.

References

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APPENDIX C

Estimation of $K_{cb\ mid}$ from effective ground cover ($f_{c\ eff}$)

Where only estimates of the fraction of soil surface effectively covered by vegetation are available, the following approximation for $K_{cb\ mid\ adj}$ can be used:

$$K_{cb\ mid} = K_{c\ min} + \left(K_{cb\ full} - K_{c\ min}\right)\left(\min\left(1,\ 2f_c,\ \left(f_{c\ eff}\right)^{\left(\frac{1}{1+h}\right)}\right)\right) \qquad (98)$$

where
- $K_{cb\ mid}$ estimated basal K_{cb} during the mid-season when plant density and/or leaf area are lower than for full cover conditions,
- $K_{cb\ full}$ estimated basal K_{cb} during the mid-season (at peak plant size or height) for vegetation having full ground cover or LAI > 3 (see Equations 99 and 100),
- $K_{c\ min}$ the minimum K_c for bare soil (in the presence of vegetation) ($K_{c\ min} \approx$ 0.15 - 0.20),
- f_c observed fraction of soil surface that is covered by vegetation as observed from nadir (overhead) [0.01 - 1],
- $f_{c\ eff}$ the effective fraction of soil surface covered or shaded by vegetation [0.01-1] (see Box 18),
- h the plant height [m].

Stomatal conductance and water transport within plants may limit ET under conditions of sparse, tall vegetation. Under these conditions, $K_{cb\ mid}$ is limited by the "$2f_c$" term in Equation 98. Equation 98 applies well to trees and shrubs.

BOX 18
Measuring and estimating $f_{c\ eff}$

$f_{c\ eff}$ should normally represent the fraction of the soil surface that is shaded by vegetation. This value is generally larger than f_c, the actual fraction of the soil surface that is covered by vegetation as observed from directly overhead. The amount of shading represents the amount of solar radiation intercepted by plants for potential conversion into evapotranspiration. The total fraction of shading is a function of the sun angle and the horizontal size and shape of individual plants (or rows) relative to their height.

$f_{c\ eff}$ for 'rectangular' shaped canopies such as most agricultural plant rows can be approximated as:

$$f_{c\ eff} = f_c\left[1 + \frac{HWR}{\tan(\eta)}\right] \leq 1$$

where
- f_c observed fraction of soil surface that is covered by vegetation as observed from nadir (overhead) [0.01 - 1],
- HWR height to width ratio of individual plants or groups of plants when viewed from the east or from the west [ ],
- $\tan(\eta)$ tangent of the mean angle of the sun, η, above the horizon during the period of maximum evapotranspiration (generally between 11.00 and 15.00 hours) [ ]. For most applications, η can be computed at solar noon (12.00 hours).

Estimation of $K_{cb\ full}$

Agricultural crops:

Non-pristine agricultural crops represent crops that have not developed to their potential due to environmental stresses caused by soil water shortage, fertility, disease, grazing or insect damage or due to low plant density. The value for $K_{cb\ full}$ in Equations 97 and 98 can be taken as the $K_{cb\ mid}$ value listed for any "full-cover" crop ($f_{c\ eff} \sim 1$) in Table 17, after adjusting it for climate (Equation 70):

$$K_{cb\ full} = K_{cb\ mid,Table} + [0.04(u_2 - 2) - 0.004(RH_{min} - 45)]\left(\frac{h}{3}\right)^{0.3} \qquad (99)$$

where
- u_2 mean value for wind speed at 2 m height during the mid-season [m s^{-1}],
- RH_{min} mean value for minimum daily relative humidity during the mid-season [%],
- h mean maximum plant height [m].

Natural vegetation and crops not listed in Table 17:

For natural vegetation, nonfull-cover crops, or for crops not listed in Table 17, $K_{cb\ full}$ can be approximated as a function of climate and mean plant height for areas of vegetation that are greater than a few hectares:

$$K_{cb\ full} = K_{cb,h} + [0.04(u_2 - 2) - 0.004(RH_{min} - 45)]\left(\frac{h}{3}\right)^{0.3} \qquad (100)$$

where
- $K_{cb,h}$ $K_{cb\ mid}$ for full cover vegetation (LAI > 3) under sub-humid and calm wind conditions (RH_{min} = 45% and u_2 = 2 m s^{-1}), (Equation 101),
- u_2 mean value for wind speed at 2 m height during the mid-season [m s^{-1}],
- RH_{min} mean value for minimum daily relative humidity during the mid-season [%],
- h mean maximum plant height [m].

The value for $K_{cb,h}$ is estimated as:

$$K_{cb,h} = 1.0 + 0.1\,h \qquad \text{for } h \leq 2 \text{ m} \qquad (101)$$

where $K_{cb,h}$ is limited to ≤ 1.20 when h > 2 m. The value of 1.2 represents a general upper limit on $K_{cb\ mid}$ for tall vegetation having full ground cover and LAI > 3 under the sub-humid and calm wind conditions. This limit of 1.2 is adjusted for other climatic conditions in Equation 100. Equations 100 and 101 produce a general approximation for the increase in $K_{cb\ full}$ with plant height and climate. The form of these equations adheres to trends represented in Equation 70.

For small, isolated stand sizes, $K_{cb\ full}$ may need to be increased beyond the value given by Equation 99 or 100, as discussed in Chapter 10.