ANNUAL REPORT

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FIFTH
IRRIGATION DISTRICT
U.S. INDIAN SERVICE

-o-

1926.

I

NARRATIVE

CV-6417-201 NN013106

CV-6417-201

CONSOLIDATED CROP REPORT 1925. FIFTH IRRIGATION DISTRICT U.S. INDIAN SERVICE.

PROJECT	ALFALFA	BEANS	CORN	GARDEN TRUCK	OATS	ORCHARD	POTATOES	WHEAT	CHILE	MELONS	MISCEL.	MISCEL.	EST. VALUE
[illegible]	60		300							2	Sugar beets		
	125 T.	1000 lbs.	3000 bu.	$200.	1000 lbs.				1000 str.	20 T.	600 T.		$ 13160.00
Capt. Tom Wash											Hay		
	100 T.	19000 lbs.	100000 lbs.		10000 lbs.		8000 lbs.			10 T.	50 T.		10334.00
[illegible]	97.5	19.75	170.75						14	15	Peas 20		
	179 T.	6425 lbs.	8929 bu.						463 str.	21400 lbs.	50 lbs.		8989.50
[illegible]	60		70				1			3.5	Hay 5	Squash 6.5	
	60 T.		74000 lbs.				200 lbs.			1.5 T.	5 T.	6700 lbs.	26149.50
Parasuchi	25		60			10							
	100 T.		24000 lbs.			100 bu.							1120.00
[illegible]	738	22	586	27		27		39	Pasture 100	36	Ensilage 50	Hay 5	
	1155 T.	3500 lbs.	800800 lbs.	70000 lbs.		2000 lbs.		23400 lbs.	$400.	53 T.	150 T.	3 T.	43634.00
[illegible]	600		600	100	75	25		375	300		Hay 450	Pasture	
	1050 T.		13500 bu.	$5000.	2000 bu.	$2500.		5100 bu.	8970 str.		250 T.	$2000.	65730.00
[illegible]	234	20	651	32	6	23		525	50	18			
	596 T.	8000 lbs.	1093680 lbs.	$3200.	7680 lbs.	1725 box.		630000 lbs.	5000 str.	18 T.			57670.00
Tisarilla Apache	60	Barley 5	Sugar beets	.5	110		3				Clover 5	Hay 175	
	205 T.	3060 lbs	.5 A. 8 T.	2000 lbs.	47800 lbs.		25200 lbs.				20 T.	195 T.	5297.20
[illegible]	297		236										
	150 T.		35400 lbs.		The Stockman reported failure in most all crops, because of shortage of water								5000.00
[illegible]	70		100		660		10	30			Ensilage 18	Nat hay 430	
	210 T.		28000 lbs.		372512 lbs.		500 lbs.	18540 lbs.			100 T.	4.5 T.	20676.44
[illegible]	105	5	72	2		3		34	2	4			
	321 T.	4320 lbs.	65100 lbs.	5350 lbs		280 box.		505 bu.	191 str.	6.5 T.			9621.00
[illegible]	24		38		7			20			Peas		
	24 T.		33040 lbs.		512 lbs.			7720 lbs.			480 lbs.		1211.04
[illegible]	3620	48	135	60	545	20	105	895	Barley 45	Hay & clover	Onions 3	Miscel. 55	
	6460 T.	32000 lbs.	235000 lbs.	$2800.	600000 lbs.	$300.	1650000 lbs.	1395000 lbs.	93000 lbs.	110 A.-180 T.	90000 lbs.	32000 lbs.	141890.00
[illegible]	116		100					120	10	15	Hay 125		
	332 T.		8000 lbs.					2100 bu.	800 str.	$750.	110 T.		11611.00
[illegible]	112	15	300	26		6		246	31	20	Hay 62		
	336 T.	10600 lbs.	504000 lbs.	$1870.		600 box.		295200 lbs.	400 str.	20 T.	62 T.		27110.00
[illegible]	40		88			1		64	1	1	Hay 20		
	42 T.		18240 lbs.			5 box.		105 bu.	30 str.	300 lbs.	17 T.		1275.00
[illegible]	90	4	342	11	25	6		191	11	7	Hay 160		
	315 T.	40 lbs.	270300 lbs.	5080 lbs.	13216 lbs.	217 bu.		3401 bu.	1109 str.	12.8 T.	107 T.		17966.00
[illegible]	170	12	157	15	9	2		119	5	8	Hay 10	Pasture 300	
	525 T.	4870 lbs.	263760 lbs.	$1125.	5640 lbs.	200 box.		142800 lbs.	25 str.	8 T.	10 T.	$900.	19499.00
[illegible]	92	8	152	6	24	6		85	2	7	Hay 86	Alfalfa seed	
	289 T.	5640 lbs.	104640 lbs.	5700 lbs.	13500 lbs.	373 box.		1252 bu.	116 str.	7 T.	202 T.	1 A. 390 lbs	11087.00
[illegible]	112	46.5	364						39	39	Peas 38	Pasture 10	
	310 T.	4991 lbs.	22349 lbs.						742 str.	48960 lbs.	3495 lbs.	$500.	24376.60
[illegible]	260		425	Cabbage	120		Onions	360			Hay	Peas	
	320 T.		395000 lbs.	900 hds.	36080 lbs.		1200 lbs.	224000 lbs.			145 T.	39000 lbs.	19399.60
[illegible]	80		75	2						6			
	80 T.		45500 lbs.	1000 lbs.						6 T.			4155.00
[illegible]	40	2	140			2		121	1	2			
	186 T.	1260 lbs.	61320 lbs.			125 box.		914 bu.	42 str.	2.2 T.			5418.00
[illegible]	170	2	215	10	Ensilage 12	36	3	Peas 2	4	50	Hay 40	Pasture 30	
	360 T.	150 lbs.	210000 lbs.	4000 lbs.	170 T.	21000 lbs.	16000 lbs.	600 lbs.	40 str.	30 T.	10 T.	$300.	18327.00
[illegible]			497							7			
			80000 lbs.							6 T.			820.00
[illegible]	82		150	5		3		170	15	6	Hay 15		
	60 T.		156000 lbs.	$375.		90 box.		122400 lbs.	1125 str.	6 T.	15 T.		8023.00
[illegible]	[illegible]		376	3	17			641		3.5			
	[illegible] T.		316640 lbs.	17500 lbs.	6000 lbs.			145500 lbs.		3.5 T.			40046.00
	Estimate total irrigated area 27251 acres.											Total	$619595.88

NOTE UPPER SPACE ACRES-LOWER SPACE Y CRO

26

NN013107

GANADO

No work was done on the Ganado project during the year except operation and maintenance. A flood water diversion ditch was built at one point where the canal was damaged whenever there was a storm and with this exception no real construction work was done. Water was run in 1925 as late as there was any demand for it and was turned in again for the irrigation season 1926 on the 11th of May.

The canal was cleaned as usual by Mr. J.L. Hubbell under his contract for doing the cleaning for a certain proportion of the length of the canal and the Mission donated labor to the value of $80.00 as their share of the annual maintenance.

Supt. Duclos gave us, at the mill, 5180 feet board measure of lumber which we hauled to the project. It is to be used for the building of structures, principally bridges and turnout boxes.

LEUPP

Under date of August 27, 1925, this office was directed to look into the matter of rebuilding the main flume or metal lined section of ditch built on top of a protection levee, used in watering the school farm at Leupp, Arizona. Assistant Engineer Anderson was detailed and under date of September 25, 1925, a report was submitted the Commissioner of Indian Affairs containing estimates for four alternate plans for rebuilding this flume, ranging from $3914. to $7532.

The cheaper plan, which was to line the ditch with thin slabs of sandstone grouted into place, was recommended, not only because it was the cheapest but because the material was immediately at hand for most of the work and the bulk of the money expended would go to the Indians for labor.

An estimate and recommendation for a new power plant for pumping water was also included.

WATER SUPPLY NAVAJO & HOPI

BELENA BEGA WELL

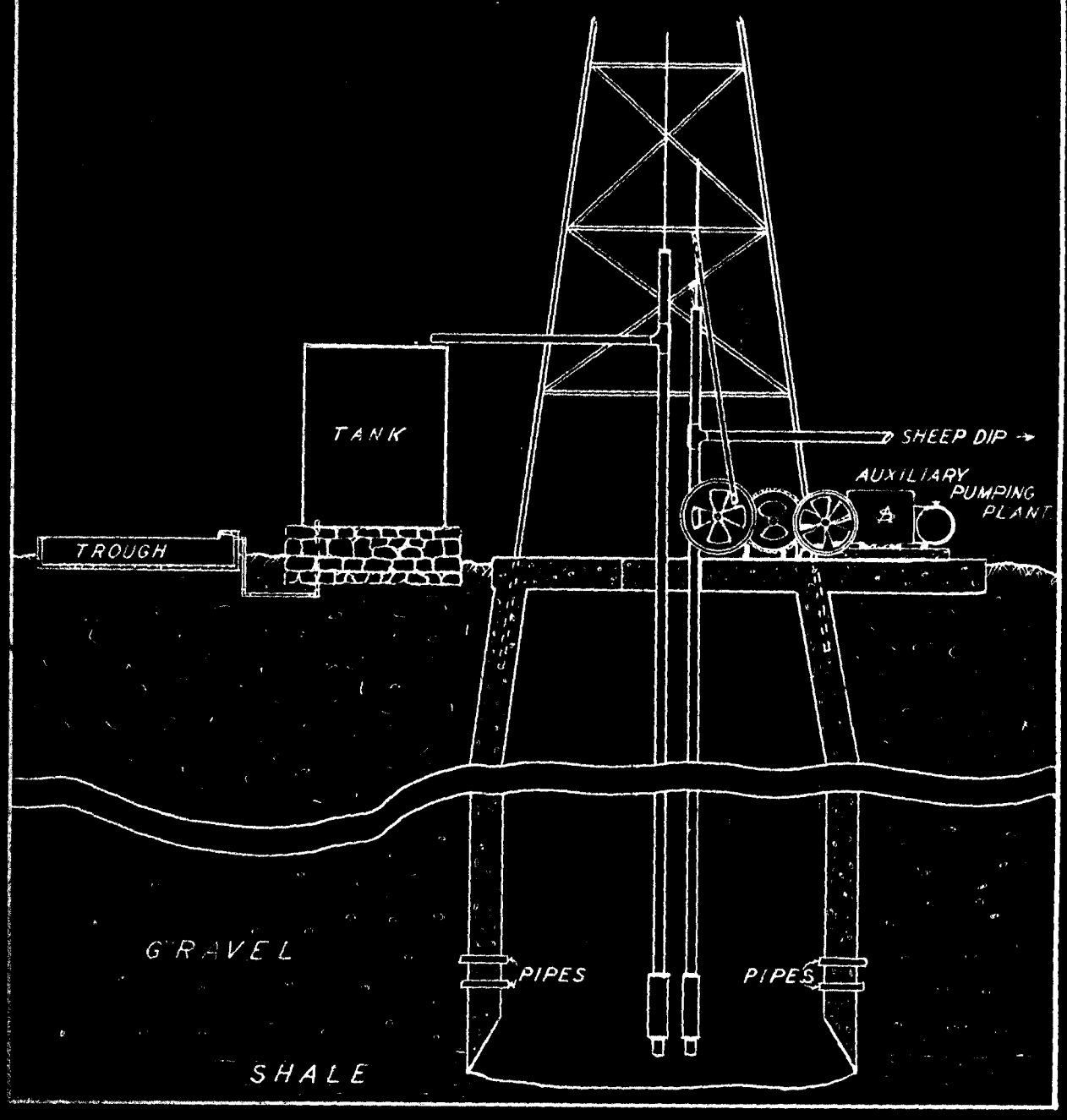
LEUPP EXTENSION

DEVELOPED BY

U. S. INDIAN SERVICE

IRRIGATION

1926.



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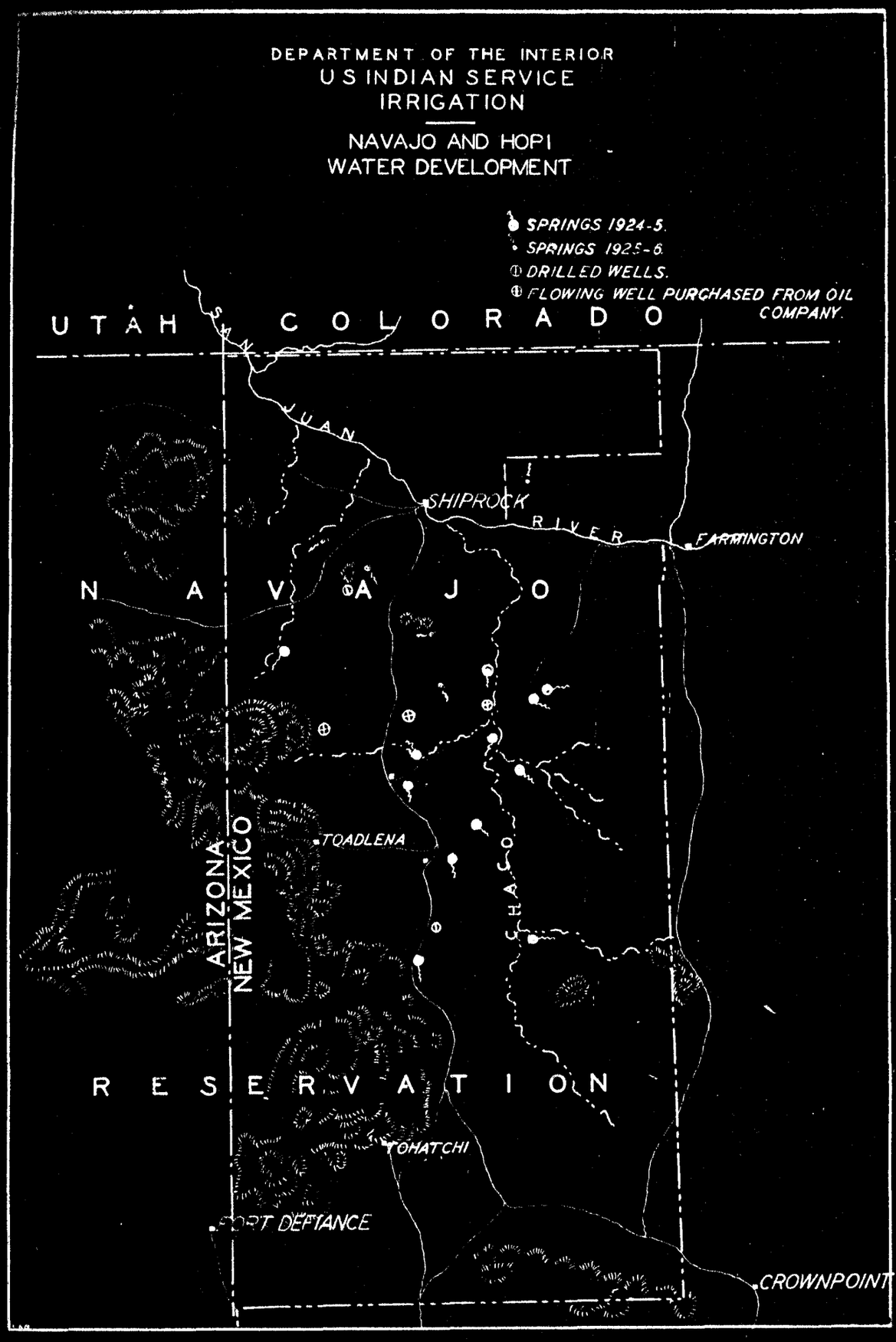
From the office letter it was understood that funds were not available for the work during the fiscal year 1926 but the report was desired so that plans could be made for doing this work in the future when funds might become available.



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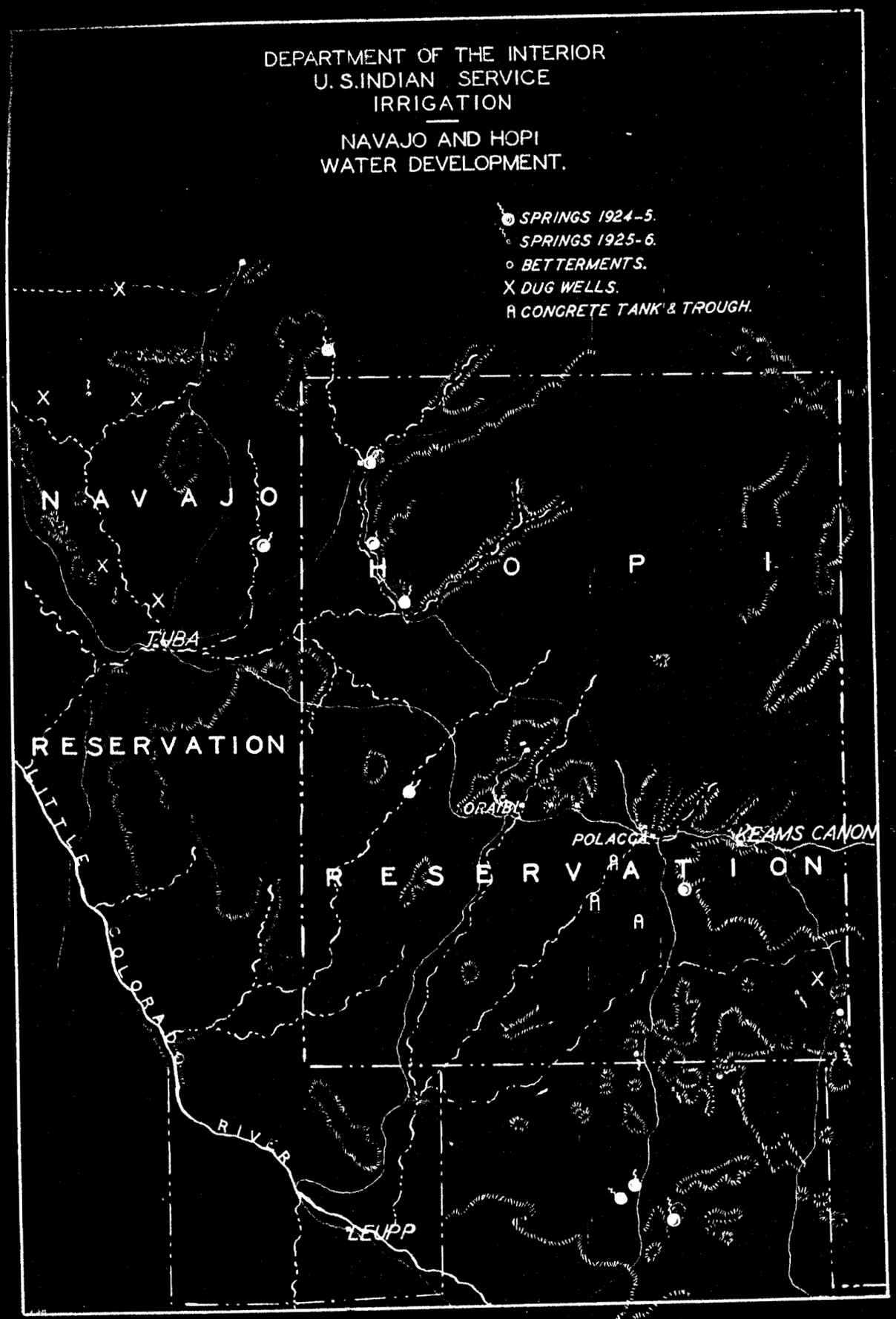

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CV-6417-201

NN013113

NAVAJO & HOPI WATER DEVELOPMENT

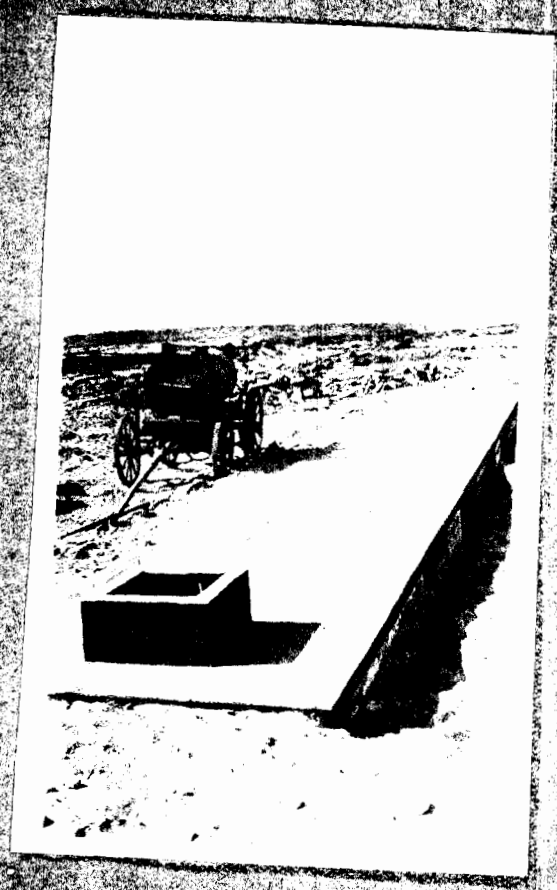
During the past year efforts have been devoted, in a greater measure than during the past several years, in the development of springs. Attached will be found two small maps showing two different parts of the Navajo and Hopi country with the springs that have been developed during the past two years marked thereon. There is also a blue print for nearly every one of them showing method of developing and how they were improved. The following memoranda of each of the reservations will show in a general way what has been done on each of the jurisdictions:

Western Navajo Reservation

In addition to helping and encouraging the Indians to build surface water tanks, cleaning out springs, and other water holes, etc., we have done the following: dug five wells, improved two springs, erected windmill and constructed reinforced concrete troughs.

5 10

NN013114



WATER CATCH
CHIMOPOVI

DAMAGED FLUME
SHOWING BROKEN
SECTION

REPRODUCED AT THE NATIONAL ARCHIVES

At this time we have sufficient material on hand to carry on future development work and during the first half of next year, beginning July 1st, because we have a good supply of material, will be able to accomplish much more in the same length of time than in the past.

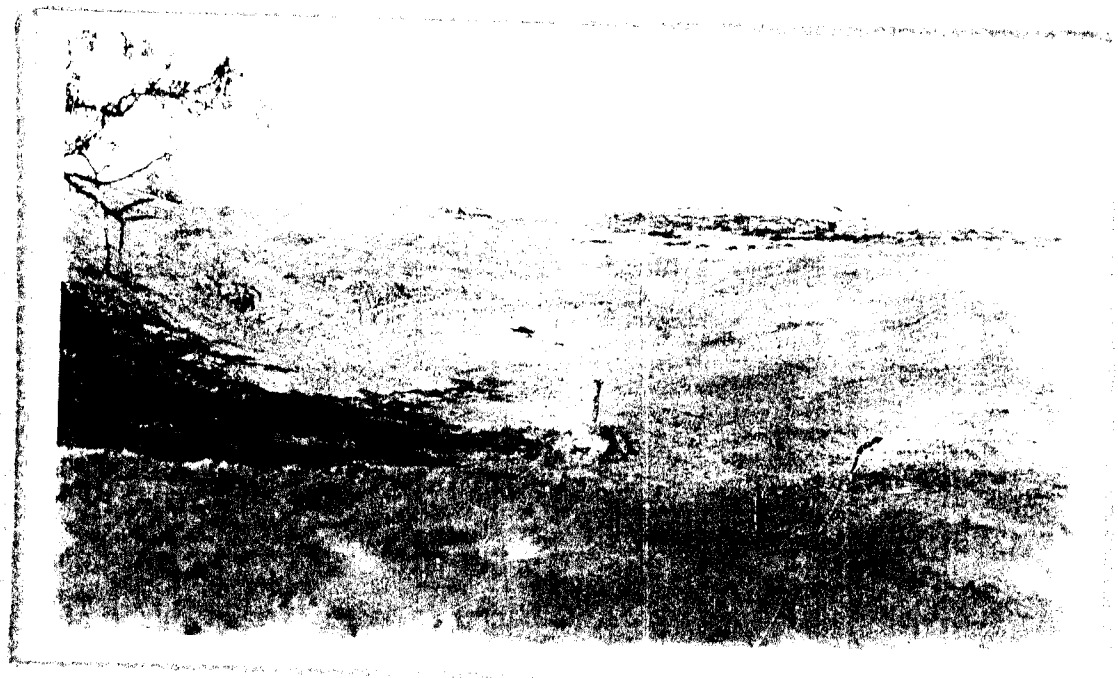
Leupp Reservation

Owing to shortage of funds we could not carry on spring development work on all of the reservations at the same time, therefore, as considerable work along this line has been done in the past in this jurisdiction, it is believed advisable to spend the money elsewhere for the time being. However, it was found necessary to develop a well to be used for sheep dipping purposes, as well as stock water, which was accomplished by sinking a reinforced concrete caisson down through quicksand, constructing a reinforced concrete trough and erecting a storage tank; one spring, badly needed, was developed.

1 well

NN013116

CV-6417-201



E-GUANY SPRING

SPRING SITE AFTER DEVELOPMENT

REPRODUCED AT THE NATIONAL ARCHIVES

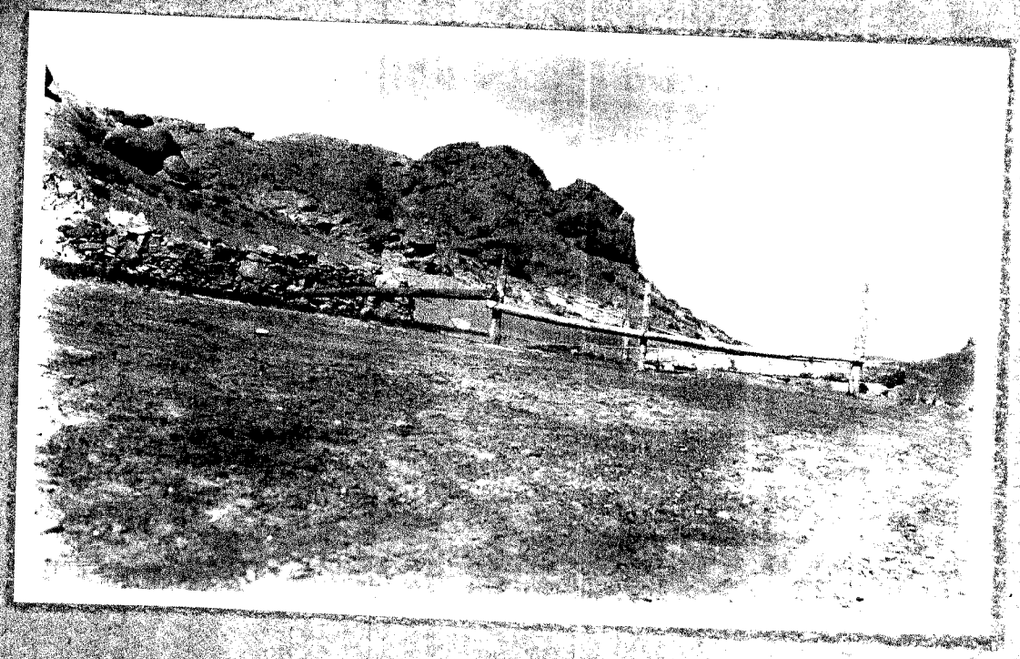
During the coming year the spring development work will be continued, as long as funds are available. In case we get an additional sum of money it will be possible to accomplish more with the same overhead expense, than has been possible in the past.

Hopi Reservation

In addition to the maintenance of 51 wells, windmills, tanks and troughs, the following has been accomplished: Betterments - there were three reinforced concrete storage tanks and troughs constructed, and sandstone crushed for future construction; one well developed by means of sinking a concrete caisson down through quicksand; a reinforced concrete trough and storage tank erected; a total of six springs developed and concrete troughs constructed. Also helped these Indians build dirt tanks, clean out springs, wells and other watering holes.

51 total

There is material on hand to construct more reinforced concrete tanks and



BARBER SPRING
1 MILE SOUTHEAST OF TABLE MESA

SPRING SITE BEFORE DEVELOPMENT

REPRODUCED AT THE NATIONAL ARCHIVES

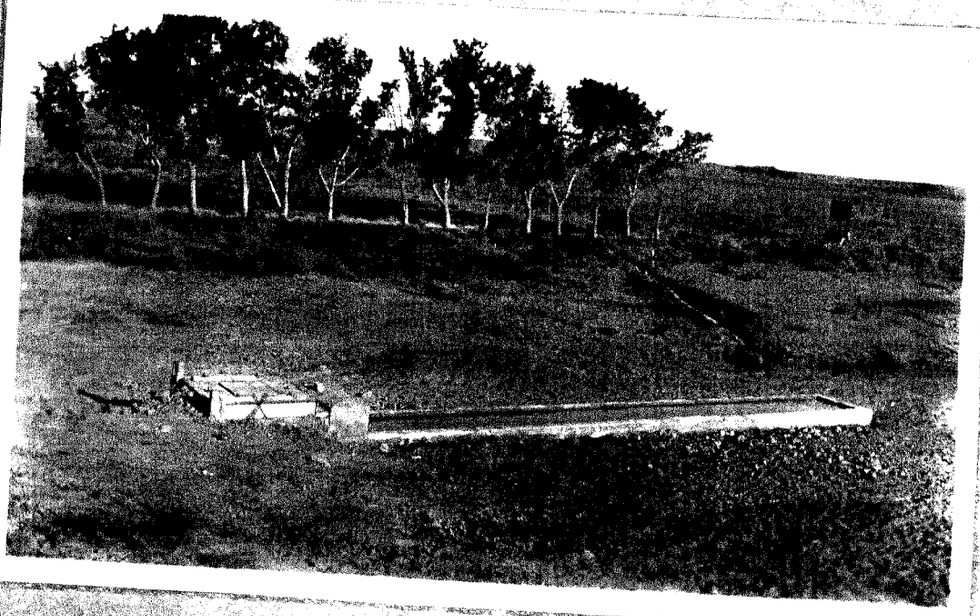
troughs, these to replace old worn out metal tanks and troughs, and this work will be carried on during the coming year.

It was necessary to do some needed road work in order to carry on the maintenance and construction work, such as making crossings over large arroyos and changing roads around impassable, washed out portions of roads.

Navajo Reservation

Since there has been a great deal of water development done on this reservation in the past, and a shortage of funds, the work on this reservation has been confined mostly to encouraging these Indians to build surface water tanks, clean out springs, wells and other watering places, and the maintenance of thirty-two wells, windmills, tanks and troughs. 32 wells

However, as soon as more money is available the development of additional water will be resumed on this reservation, consisting of spring development, reservoirs, etc.



BARBER SPRINGS

AS DEVELOPED

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RESERVOIR CANYON, TUBA.

The Hopi Indians located at Moencopi irrigated several hundred acres of land by the waters which rise in springs in Reservoir Canyon, the water being conveyed for the most part in an open ditch.

In 1909 reservoirs were built in this canyon, and at one place the water came through a narrow canyon which was being filled with drifting sand. A covered conduit of local stone was built for a distance of about 700 feet. Almost immediately the drifting sand filled the canyon, until at places it was buried 30 feet.

A portion of this conduit caved in and cut off the flow. On the 9th of February the Indians agreed to open the cut without cost to the Government, under the direction of an engineer; the Indians refusing any pay as they felt that it might jeopardize their rights to the water. They had learned of a proposed project to take the water from them and use it for school purposes.

NN013122

CV-6417-201

Cut through gravel and boulder bar to bring water to head of Severo ditch. About ½ mile above head. Made June 1926.

REPRODUCED AT THE NATIONAL ARCHIVES

The Indians furnished, without cost to the Government, 267 men days and 112 team days, up to the first of March. At that time there was a small stream of water flowing through carrying out enormous quantities of sand which otherwise would have had to be excavated by teams.

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CV-6417-201 NN013124