NOTICE OF IRRIGATION AUTHORITY

HARQUAHALA IRRIGATION
NON EXPANSION AREA

STATE OF ARIZONA DEPARTMENT OF WATER RESOURCES

This is to document that pursuant to the provisions of Title 45, Chapter 2, Arizona Revised Statues

[redacted]

is entitled to irrigate 640.0 *acres of land. Groundwater may be used to irrigate only the acres of land described as follows:*

Sec 32 T2N R8W GSRB&M

The use of groundwater on the above described land for irrigation purposes shall be in accordance with the laws of the State of Arizona and restrictions placed on use by the Director of the Department of Water Resources pursuant to Title 45, Chapter 2, Arizona Revised Statutes.

NOTICE NO. 60- 201104

is affirmed this 18th *day of* July, 1985

ARIZONA DEPARTMENT OF WATER RESOURCES

Wesley E. Steiner
Director

The Department of Water Resources must be notified if the above named person(s) changes his address or conveys ownership of the land to another person(s). (See reverse side.)

SUBSTANTIAL CAPITAL INVESTMENT

Oversight Committee

- Applicant [redacted] 60-201102,60-201104
- Application 60-201105 Date of Report May 21, 1985
- Legal Description: N½ NE¼ Section 32; E½; E½ W½; NW¼ NW¼ Section 33 T2N R8W and E½; S2150' W½ Section 1 T1N R9W GSRB*M
- Number of acres claimed 1036.88
- Property is located within the Harquahala INA
- Background Information (Narrative Form)

Saddle Mountain Ranch is comprised of 3374.47 acres of which 2337.59 have been verified as having a history of irrigation during the required time frame. Correspondence with the Department regarding Saddle Mountain Ranch began in November 1981 when Frank Rogers, President of the Harquahala Valley Irrigation District submitted a letter requesting clarification of the number of state and federal eligible acres. (Exhibit 1) The letter centered on investments made by the owner and questioned the Department's response to these investments. The Department set up a meeting in January 1982 to discuss these questions, however, the results of the meeting were not documented. (Exhibit 2) During the verification process, Mr. Bob Farrer, Franzoy & Corey, indicated that the Department did in fact make a positive determination for the entire ranch, however, he was not able to produce evidence to confirm this. Without confirming evidence, the Department had no basis for granting a "Notice of Irrigation Authority" for the entire ranch and therefore requested documentation of investments made for the remaining 1036.88 acres.

Because of the Department's policy to group together contiguous parcels of land held in the same ownership, the ranch has been divided into five separate files: 60-201101, 60-201102, 60-201104, 60-201105 and 60-201106. Two of the files, 60-201101 and 60-201106 have been completely verified while the three remaining files all contain non-verified portions and are the subject of this Substantial Capital Investment claim. Exhibit 3 shows the location of the non-verified areas.

Farming operations at Saddle Mountain Ranch began in the late 1950's and all of the 3375 acres qualify for CAP water. Mr. W. T. Gladden began farming the ranch in 1972 and at that time the entire 3375 was farmed using ten wells and five tailwater recovery ponds. The water application method consisted of slope irrigation with furrows and borders. Very few ditches were cement lined and 9240' of pipeline existed on the farm. The Soil Conservation Service estimated that

irrigation efficiencies on the farm averaged between 50 and 55%.

During the early 1970's, continuing declines in the groundwater table resulted in decreased outputs of the ten wells, Because of the reduced well outputs and poor irrigation efficiencies, Mr. Gladden was forced to gradually reduce the number of cultivated acres to approximately 2300.

In 1974, Mr. Gladden consulted the SCS for advice on how to increase irrigation efficiencies in order to continue irrigating the entire farm. With the help of the SCS, a long-term, comprehensive water conservation development program was designed and eventually implemented in 1976. The specific goal of the plan was to be able to irrigate all acres on the farm using existing wells rather than drilling additional ones. The program consists of increasing irrigation efficiencies to 80-85% by installing more pipelines, cement lining ditches, refurbishing wells and dead leveling fields. For these reasons, Mr. Gladden has requested the Department of Water Resources review his Substantial Capital Investment Claim for the remaining 1036.88 acres.

	Yes	No
o SCI Investigation		
Does the applicant indicate any capital investments within the time frame prescribed by law?	X	
1. Land clearing or leveling	X	

In accordance with the SCS development program, the applicant began laser leveling existing fields in 1977. During the time period, 470 acres were dead leveled and 120 acres slope leveled. In 1981, an additional 240 acres were dead leveled. The applicant plans on leveling about 160 acres per year until the farm is completely leveled. The specific purpose of the leveling program is to increase irrigation efficiencies in order to irrigate the remaining 1036.88 acres. Total cost of leveling during the time period was estimated to be $238,500. Applicant provided $110,506.07 in receipts.

2. Construction or improvement of irrigation delivery.	X	

During the time period, the applicant installed an additional 47,880' of 12" PVC pipeline and cement lines 50,300' of ditches. These improvements were made for the specific purpose of providing water to non-irrigated portions of the farm as well as to facilitate movement of waste water and well water over the entire farm. Total cost of improvements were estimated to be $526,755. Applicant provided $130,697.48 in receipts.

3. Drilling, deepening, refurbishing of wells.	X	

From 1976 to 1978, the applicant refurbished seven wells and drilled an additional well with the specific intent of increasing the overall output of his system. Combined output of the wells and sumps equals 21,000 gallons per minute. The applicant also converted four wells from gas to electric power to lower costs and increase efficiency. Total cost of improvements were estimated to be $739,500. Applicant provided $210,347.05 in receipts.

4. For this category the applicant indicates on "Attachment A", the costs of purchasing nine well motors. Receipts for these purchases were included in category 3 above. Other miscellaneous fees associated with the improvements totaled $5,095.20 (receipts).

5. Fencing. ____ X

6. Total cost of improvements.

Actual (with receipts)	$ 456,645.80
Estimated	$1,048,109.20
TOTAL	$1,504,755.00

o Other sources that support SCI Claim such as Land Sat or ASCS/SCS confirmation.

The applicant initiated a "Farmer-District Cooperative Agreement" with the Buckeye Roosevelt Conservation District in 1972. In 1974, the SCS was consulted to help in the design and implementation of a water conservation development program. The specific purpose of the program was to allow Mr. Gladden to irrigate the entire farm without having to drill additional wells. The program focused on increasing irrigation efficiencies by laser leveling existing fields, installing additional pipelines, cement lining ditches and refurbishing wells. Progress regarding this program was monitored by the SCS. Exhibit 4 is an affidavit filed by Mr. Robert E. Abels, SCS, attesting to the program monitoring.

o General narrative that summarizes the SCI investimation.

Prior to 1972, the entire 3374.47 acres comprising Saddle Mountain Ranch was farmed using ten wells and five tailwater recovery ponds. Combined outputs of the wells and sumps were sufficient to irrigate the entire farm at an efficiency rate of 50 to 55%.

Due to various reasons including reduced well outputs, as a result of continuing groundwater table declines, higher pumping costs, and poor irrigation efficiencies, the applicant was forced to gradually reduce the number of irrigated acres to approximately 2300. The reduction in irrigated acres occurred during the period from 1972 to 1976 and only 2337.59 acres has been verified by the Department as having an irrigation history.

In 1974, realizing that reduced well outputs and poor irrigation efficiencies would prevent him from continuing to irrigate the entire farm, the applicant consulted the SCS for help. On advice from the SCS, the applicant began a comprehensive water conservation program to be carried out in phases over a specific period of time. Initiated in 1976, the goal of the program was to be able to irrigate the entire farm using existing wells rather than drilling additional ones. The phased development, implemented over twenty years and designed to increase irrigation efficiencies, involves laser leveling, concrete lining irrigation ditches, underground

pipeline installation and irrigation well upgrading.

During the five-year time period, the applicant has laser leveled 590 acres of land, installed 47,880' of underground pipelines, cement lined 50,300' of ditches, refurbished seven wells, and drilled an additional well. All improvements were made in accordance with the SCS development program and with the specific intent of increasing irrigation efficiencies, thereby increasing the potential to irrigate the remaining 1036.88 acres. Additionally, improvements were made to provide water for non-irrigated portions of the farm as well as to facilitate movement of water over the entire farm acres. (Exhibit 5)

The applicant has designed his irrigation system of eleven wells and five tailwater recovery ponds in order to irrigate anywhere on the entire farm. With this capability and the water conservation techniques employed by the applicant, it is apparent that there is a sufficient quantity of water to irrigate the entire farm. Furthermore, Saddle Mountain Ranch has been enrolled in an ASCS farm set-aside program, therefore, it is doubtful the entire farm will ever be irrigated in one crop season.

Based on the investments made and the applicant's original intentions, the Phoenix AMA recommends that Mr. W. T. Gladden be granted the authority to irrigate the remaining 1036.88 acres.

- Field report submitted by Dave Roberts /_____
- AMA Director Determination

  Agree Robert M Wells

  Disagree _____

  Other _____
- Oversight Committee Determination

  Agree Herb Dishlip

  Disagree _____

  Other _____

ATTACHMENT A

[redacted]

Sects. 31,32 & 33 T2N-R8W; Sects. 5 & 6 T1N-R8W; Sect. 1 T1N-R9W

Identified below are common types of activities and investments made to prepare land for irrigation purposes. Please provide the required information on this form for each investment checked. Attachment B specifically lists the information that is required for each type of investment. Any additional information that you feel would further support your claim, such as a Soil Conservation Service farm plan, could also be submitted.

Please understand that without this information, we will be unable to favorably consider your substantial investment claim and as a result, unable to issue you a Notification of Authority to Irrigate Land within the Harquahala INA.

//

Date land was purchased 1976*

Type of crops to be grown Cotton, Safflower and Wheat

	Cost
Land clearing or leveling	$238,500
Construction or improvements of irrigation delivery system	526,755
Drilling, deepening, refurbishing of well(s)	499,500
Fees for leasing, professional services, and purchase of supplies and equipment coincidental to these improvements	240,000
Fencing	-0-
Cost of improvements	
Actual (with receipts/invoices)	
Estimated	See attached
Total Cost	$ 1,504,755

I, [redacted], the applicant named in this application (Number 60-**) do hereby certify under penalty of perjury, the information contained and statements made herein are to the best of my knowledge and belief, true, correct and completed.

April 2, 1985 [redacted]

Date Signature

*The Ranch was lease farmed from 1972-1976 and purchased in 1976
**60-201104, 60-201105, 60-201102

01-1610 Court HOuse Rock Farm

File #60-201 104

HARQUAHALA IRRIGATION NON-EXPANSION AREA (INA)
RECORD OF IRRIGATION HISTORY

RECEIVED
JAN 11 1985
WATER RESOURCES

1. OWNERS NAME(s) [redacted]

Last Name First Middle or Initial

Mailing Address City State Zip

2. Legal description of land which was irrigated at any time between January 1, 1976 and January 1, 1981.

All T2N, R8W - Section 32

3. Total number of irrigated acres described in Item #2 503.9

Does not include roads and ditches, etc.

4. Describe the location of each private well used to irrigate the land. Indicate the well registration number and as accurately as possible the year the well was drilled. In addition, please indicate whether or not you own the well.

¼	¼	¼	Sec.	Twp	Rge	Regist. No.	Year	Ownership Yes	Ownership No
NE	NE	NW	32	2N	8W	55-614429	NA	*	
NE	NW	NW	32	2N	8W	55-614430	NA	*	
						55-			

5. Have approved measuring devices been installed on the well(s) in Item 4? ____Yes X No
If so, please indicate measuring device type.

Will contract Gilbert Pump or Az. Engine

6. Is the land served by an Irrigation District or Agricultural Improvement District? ____Yes ____No
If so, give name of District

It will be served by Harquahala Valley Irrigation District

7. Is groundwater the sole source of water for irrigation? X Yes ____No.

8. If other sources are utilized, please indicate what they are: i.e. surface water, effluent etc.

9. On the attached grid, draw a map of the irrigated land as described in Item 2 and Indicate the location of the wells described in Item 4.

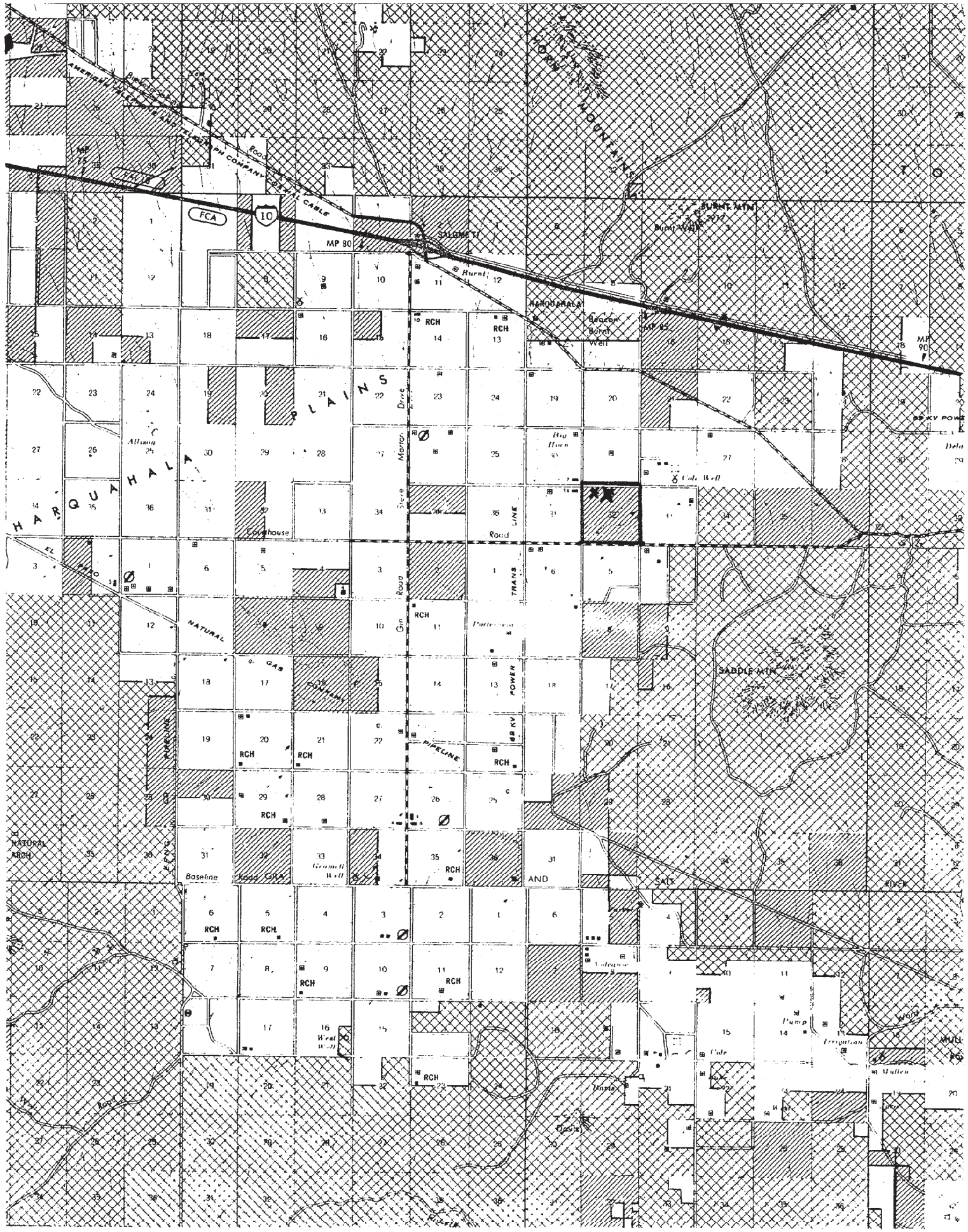
DATED this 9th Day of January, 1985.

255-3500
Telephone Number

[redacted]
Signature

[redacted]

*Land is owned by SLD;
Improvements are owned by lessee.



—— = property

X = wells servicing property