OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA GEN. REG. NO. 27

5010-106

UNITED STATES GOVERNMENT

Memorandum

TO : Warren Steenbergh, Saguaro

DATE: May 2, 1968

FROM : William F. Dengler, Joshua Tree

SUBJECT: Water Source Reports

The copies of our water source items that you requested at the Biologist's Conference are enclosed. Hope they will be of value to you.

We make out a Water Source Report form for every possible source in the Monument and contiguous bighorn range. Many times the information mearly includes a name and location. However, we find these helpful in directing our inspections, and they also serve as a ready reference should some oldtimer, such as a former prospector, offer additional information. When an inspection is made the report is completed, or it can show that an attempted inspection was made but the source was not located.

The Water Spurce Report Supplement serves as a log for future inspections. The sample that you have here is our first attempt at using a supplement. Basically it is working out all right; however, we plan to eliminate the horizontal lines and rule them in after each entry has been made.

Pictures are valuable, especially if one anticipates discussing the source with someone else as perhaps in the case of a proposed rehabilitation. They are also useful in assisting someone relocate the source in the future.

Our historical data is placed behind the appropriate supplement in the water source book. Many times this information has mearly been sifted from the files. However, by accumulating it in the book it completes the information available on the source and is handy for use at a moment's notice.

The Joshua Tree National Monument Water Source Book is tab indexed by township and range. Upon turning to a particular location, for example T2s R11e, one finds a topographic map showing the location, by numbered dot, of each water source known for that area. The sources are filed in numerical order behind the map. Each source entered in the book is plotted on the appropriate map and listed on the alphabetical table of contents showing its number and location. Numbering is chronological for the entire Monument so the next source entered in the book regardless of its location will receive the next number. This arrangement is proving much more versitile than our previous alphabetical arrangement.

We find the water source book an efficient means of keeping track of the water sources and planning future inspection and rehabilitation work.

William F. Dengler

William F. Dengler

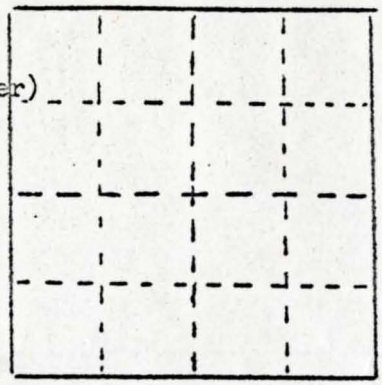
JOTR-2/65 #74

Water Source Report

1. Name of Water Lost Indian Tank

2. Quadrangle Hayfield Sec. 13 T. 5S R. 12E Elevation 3,000

3. Map Record: Scale ----- "- 1 Mile



4. Access by: Carey (Welcome Stranger) Mine - ¼ mile SSE (see back for diagram).

5. Terrain: monzonite boulders

6. Ground Cover: quartz monzonite; scattered shrubs.

7. Flow: Past ___ gpm Present ___ gpm

Depth 4' Length 5' Width 2' Storage Capacity ____ gallons

8. Existing Development: none

9. Wildlife Utilization: apparently scattered use by various wildlife, including the bighorn sheep.

10. Human Utilization: none

11. Photos Taken __ Sketch x Recorded on Water Map ____

Management Problems: none

Recommendations

1. Development & Maintenance:

2. Protection & Use:

3. Remarks: filled exclusively by rains; tank is shaded by surrounding monzonite boulders; currently a good source.

Observer W.F. Dengler* Title park ranger Date 12/27/66

Cottonwood District

* would [illegible] water [illegible] reliable

JOTR - 7/67
RMVP -

WATER SOURCE REPORT SUPPLEMENT

Name of water Lost Indian Tank

Quadrangle Hayfield Sec. 13 T. 15S R. 12E Elevation 3000'

Date	Observer	Water Flow and Condition	Weather Past	Weather Present	Wildlife Use Type & Degree	Remarks
7/10/67	W.F. Douglas	Tank Dry	little or no rain since Dec.	Clear	none	wildlife sign in area indicates tank dried up soon after December inspections.
1/2/68	W.F. Douglas	half full; water yellow-brown apparently from material leached out of plants by snow.	rain & snow during mid Dec.	clear	coyotes, birds, occasional bighorn	little use by bighorn; inspection of surrounding hills indicate area apparently passed through earlier than anticipated regularly.

Lost Indian Tank CW

From NPS Files: "Natural tank. Turn off Cottonwood Spring road north of Seal Rocks on road to Conejo Well. Continue east. Do not turn up to Conejo Well. Follow road easterly until it runs into a wash running north. Continue south by east up this wash until opposite NE point of mountains to the south. Wash divided here into several forks and a road runs between western fork and next one easterly. About half way up mesa road forks -- keep to left in east branch. Continue to end of road which terminates at a house under a rock. Tank is south east about 3/4 mile."

****

"Permanent water place in the old days and fairly easy of access if we have a car that will traverse sandy washes..." Letter from C. Pinkham to Supt. Cole July 27, 1945

****

"Oct. 13, 1945, tank was full. Mr. Pinkham stated it generally is necessary to dig in sand for water."

****

From Joshua Tree Bighorn Survey, October 1957, Lowell Sumner:

"Observers: Fladmark, Earenfight and Black
Oct. 24

Water and forage conditions: No water was found at Lost Indian Tank. The tank, or tanks, may have been overlooked, however, it is more than probable that this location would be dry. The proximity to Hayfield Reservoir and Lost Palms Canyon may be a factor to consider. Water is available (although in limited quantities at Lost Palms Canyon) at both of these locations. Forage appears to be ample.

Estimated sheep population: Fresh tracks and droppings were phentiful. With the exception of Stubby Spring, sheep sign was more abundant here than at any other location in the Monument. An estimate of ten sheep for this area is believed to be conservative.

Recommendations: At present, we know of no source of water to develop. Considering the remote situation, quality of sheep range and concentration of sheep sign, it is suggested that this area be investigated more intensively."

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Wild Horse Tank Depth (upper) 15" Mt. Aja

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
7/20/68	Bill Hoy	Lower tank dry, upper 10"	Water noted since 15 days after .68 rainfall; yellow jackets.
7/27/68	Bill Hoy	Both tanks full	Water up to low pt. on cement dam ± 3'. .297" since 7/21 Arch C.
11/6/68	**J Carrico**	**Tanks dry except for damp spot.**	**Evidence of animals digging to get water. There seemed to be enough for only bees. Only .43" since 8/9/68.**
11/16/68	Dick Begeman	Both upper tanks brim full. Main bottom tank about 12 X 12 feet and 3-4 deep.	Rain on 11/13, 0.11" & 11/15, 0.71".
11/24/68	J. Cable	Almost the same as above.	
12-8-68	J. Cable	Top and bottom holes dry. Middle hole only has water. About half full.	
12/24/68	Ed Abby	Tanks full	Rain on 12/20 .55" @ Arch Canyon
2-16-69	ED ABBEY	MAIN TANK ALMOST DRY SMALL TANK ABOVE ALMOST FULL	0.13" AT ARCH on 2-13
4-2-69	ABBEY	DRY - EXCEPT FOR SMALL AMOUNT IN MIDDLE TANK	
5-25-69	CABLE	ALL DRY	
12-13-69	Abbey	main tank DRY / middle hole holding 6"	
1-4-70	Brown	DRY — 12" in middle hole	
1-12-70	ABBEY	6" in main tank; middle tank full;	0.21 rain at Arch C. on 1-10-70
5/27/71	Drumain	all dry. Can dig 5-6" to water.	Hole present where animals had dug to moisture about 6 mourning doves flew away. One bee came. Bad drought - Has rain since Jan: Cattle sign.
8/12/71	**Ken Patrick**	**AllTanks full and many small potholes full**	**Intermittent rain during the last week. Light cattle use and some Javelina use.**

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Diablo Tank depth [redacted]20" Mt. Aja

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
9/19/68	B. Hoy	few gals. in one corner, virtually empty.	Reports & photos state tank has been deep, but sand had completely filled it up to overflow. Sm. tanks above also dry.
3-9-69	ABBEY	ABOUT 1" OF WATER	
1-10-70	Abbey	6" left	
5-20-70	Hoy	Full of Sand, ± 8" water to one side.	
7/2/71	Simon + Patrick	Dry.	Water reached by digging 5-6" into gravel.

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Tinaja Javelina Depth 3½' (42") Int. Aj

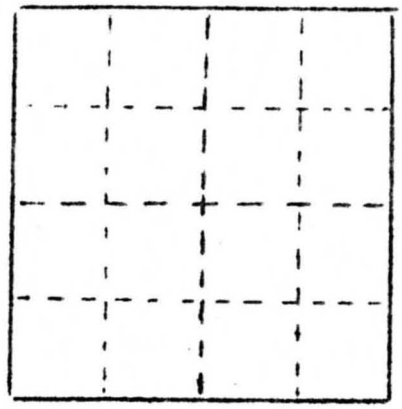
Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
5/29/69	Goodsell	EMPTY	Dropped from estimated 150 gal. on 1/18/69.
1-10-70	Abbey	12" water	
5/26/71	Inman	empty	Bad drought. ~~1.05~~ rain since Nov. only cattle sign + plenty of it.

Water Source Report

1. Name of Source DRIPPING SPRING Type NATURAL SPRING & CATCHMENT.

2. Quadrangle----------Sec.---T.---R.---Elevation----------

3. Map Record: Scale-----"= 1 Mile



4. Access by: PORTA BLANCO DRIVE

ANX IS MILE FROM START - ON SIDE ROAD

5. Terrain: BROKEN METAMORPHIC ROCK DESERT, HILLS.

6. Ground Cover: CACTI, PALO VERDE, ORGAN PIPE AND SAGUARO, CAT CLAW, MESQUITE.

7. Flow: Temp. 71° Present ___ gpm

Depth 3' Length 5' Width 3' Storage Capacity ___ gallons

8. Existing Development: NONE - OLDER PICNIC AREA REMOVED SOME TIME AGO, ROAD TO SPRING CLOSED FOR RESTORATION.

9. Wildlife Utilization: BIG HORN SHEEP, BIRDS, DEER, RING TAIL CATS

10. Human Utilization: SOME USE BY ALIENS AND VISITORS

11. Photos Taken ___ Sketch ___ Recorded on Water Map YES

Management Problems: VISITOR AND ALIEN USE

Recommendations

1. Development & Maintenance: NONE - MONITOR RATE FLOW, AND/OR POOL SIZE & DEPTH

2. Protection & Use: DISCOURAGE USE BY VISITORS - FENCE LOWER END OF CANYON IF CATTLE START USING SPRING.

3. Remarks: I WOULD SUGGEST A MONTHLY CHECK OF WATER LEVEL AND ALIEN/VISITOR USE BE MADE AND A WILDLIFE SURVEY AT LEAST EACH YEAR.

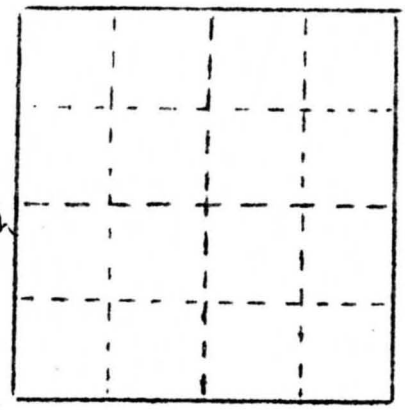
Observer E.H. MAYER Title P. TECH. Date 7/10/75

Water Source Report

1. Name of Source ~~Tank~~ Tank

2. Quadrangle ---------- Sec. ---T. ---R. ---Elevation ----------

3. Map Record: Scale -----"= 1 Mile



4. Access by: Puerto Blanco Drive

5. Terrain: Gentle roll, rocky, hilly

6. Ground Cover: Brush heavy, good number of trees

7. Flow: Temp. ___ Present 2 gpm

Depth 1½' Length 12' Width 3' Storage Capacity _____ gallons

8. Existing Development: Small watering corral, bricked in, cement tank, windmill constantly pumping water, plenty shade, small shack and ramada

9. Wildlife Utilization: Apparently mostly livestock although burros, deer use it.

10. Human Utilization: P.B. Dr. runs within 20 feet of tank

11. Photos Taken __ Sketch __ Recorded on Water Map _____

Management Problems: _____

Recommendations

1. Development & Maintenance: _____

2. Protection & Use: _____

3. Remarks: _____

Observer Jay Title Park Aid Date 7/12/75

Water Resource Report 6/7/76 North Alamo Canyon Fork

On August 1975 the tinajas found in the north fork of Alamo Canyon were found to be 50% full or better. This was true even below the "cow line". The vegetation was evenly cropped below the "cowline."

June 7, 1976, 206 - 207, found the "cow line" had gone higher up the canyon than several water chutes. Cropping is very much in evidence everywhere except above a boulder pile up about 3/4 mile up the canyon. All tinajas in this area are bone dry.

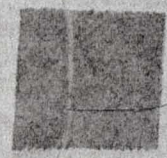
Above the new "cow line" plant matter is hardly touched. Only one site was there any evidence that a hoofed animal had dug in moist sand. Tracks were indistinct. Did locate one site in small side canyon where there were numerous tinajas (all 100% dry) and one site where cracks in the rocks oozed water. At this site there were large numbers of birds (White wing - Mourning Dove + quail) congregating.

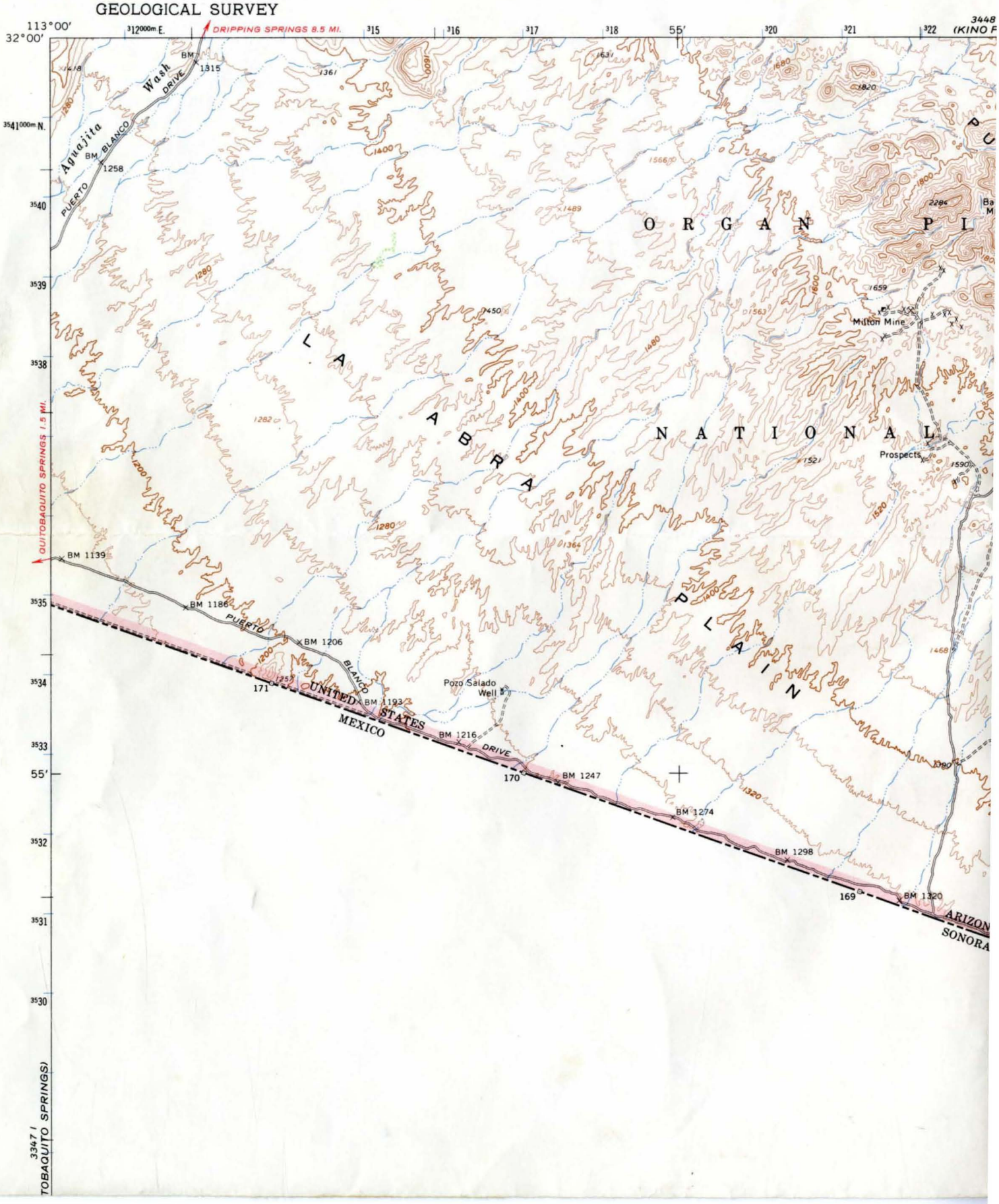
The snake pit had approx. 3" of water in it however the sides were dry and rough. Snakes could easily escape this trap + stirred the bottom and got strips of flesh and tissue but no body's. Evidence of carnivores there.

Tinajas: Red Tail Tanks

Wells: NPS Wells, #1 & #4
Lukeville, hand dug well
Lukeville, drilled well
Dowling Well
Gachado Well
Red Tanks Well
Salt Well (Pozo Saltado)

LUKEVILLE




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
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32°00'
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DRIPPING SPRINGS 8.5 MI.
315
316
317
318
55'
320
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QUITOBAQUITO SPRINGS 1.5 MI.
Agujita Wash
DRIVE
BM 1315
PUERTO BLANCO DRIVE
BM 1258
ORGAN PI
LA ABRA
PLAIN
NATIONAL
Milton Mine
Prospects
BM 1139
BM 1186
PUERTO BLANCO DRIVE
BM 1206
171
UNITED STATES
MEXICO
BM 1193
Pozo Salado Well
BM 1216
DRIVE
170
BM 1247
BM 1274
BM 1298
169
BM 1320
ARIZON
SONORA

LUKEVILLE QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)

3448 II
(MT. AJO)



3527
3526
3525
3524
50′
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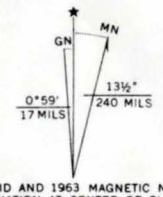
Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1963

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

Where omitted, land lines have not been established



UTM GRID AND 1963 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SC

1 ½ 0 1
3000 0 3000 6000
1 5 0 1

CONTOUR
DATUM I

THIS MAP COMPLIES WITH
FOR SALE BY U. S. GEOLOGICAL SURVEY,
A FOLDER DESCRIBING TOPOGRAPHIC

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964-T

:62500

2 3 4 MILES

0 12000 15000 18000 21000 FEET

3 4 5 KILOMETERS

RVAL 40 FEET
N SEA LEVEL

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route



QUADRANGLE LOCATION

NAL MAP ACCURACY STANDARDS
ER 25, COLORADO OR WASHINGTON 25, D. C.
AND SYMBOLS IS AVAILABLE ON REQUEST

LUKEVILLE, ARIZ.

N3145—W11245/15

1963

AMS 3447 IV—SERIES V798

CHEMICAL ANALYSIS of ORPI Water (Tri-annually)

Data taken from reports in File D5031, Water Sample Records, Ranger file.

	1967		1968		1971
Well	#1	#4	#1	#4	both wells
Specific resistance	-	-	-	-	1400
Soluble Solids	455	464	453	461	450
Total hardness	101	106	100	106	104
Ca	24	26	24	26	28
Mg	10	10	9.7	10	8
Na	115	113	112	111	111
Fe	.01	.07	.05	.06	<.05
Alk. Phenolphthalein	-	-	-	-	4
Meth. purple	-	-	-	-	160
Cl	83	83	80	84	82
Fl (limit 1.4 mg/l)	2.4	2.2	2.5	2.3	1.7
N	12	12	9.4	11	14
SO_4	54	53	52	52	56
Cr	-	-	-	-	<.01
K	(724)	(727)	4.1	4.3	-
pH	7.8	7.7	7.6	7.6	-
Bi-carbonates	201	203	202	203	-
Carbonates	0	0	0	0	-
Phosphates	-	-	-	-	-
B	.46	.44	.15 *	.62 *	-
Br (?)	4.2	4.4	-	-	-
SAR	5.0	4.8	-	-	-
Silica	-	-	60	60	-

* appears to be out of line
\- denotes: no report

= U.S. Dept. of Interior

= U.S.G.S.

Ariz. State Health Lab, — one bottle sent in - either well. Findings consistent.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Red Tail Tanks (Red) Tanks (tinajas)

Quadrangle Luke-ville **T.** 17S **R.** 6W **Elevation** 1855 **ft. Map Scale** 1:62500

Photos yes **Sketch** no **Recorded on Map** yes

Access Route: Continue on primitive road from Red Tanks Well .6 mile at base of small, steep hill. From here walk ± 60 yds left to head of lg. arroyo containing 3 tinajas at upper end.
Terrain: Hilly, at head of large arroyo, primitive (4-wheel) route to Victoria Mine, Senita Basin area.
Ground Cover: Good cover of miscl vegetation, e.g., palo verde, ocotillo.

Flow: Past (date) none **Present** none

Depth 5", 6" 12" **/Length** 15 yds. **Width** ± 15 yd **Storage** 50 **gals. (estimated)**

Brief History: None recorded, although may have been used for stock or human use for travelers between Sonoyta-Santo Domingo and Senita Basin mines and Ajo.

Present Development and Human Use: None.

Wildlife Use: Large number of toad larvae in pools formed 6 days after .86 rainfall.

Remarks & Recommendations:

1. **Development and Maintenance** See below.

2. **Protection and Use** The extant 3 tinajas might be reexamined and considered for enlargement for wildlife since this is probably the only tinaja unit for several miles.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/12/68



South ←



Facing South 6/2/71

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Red Tail Tanks depth 5", 6", 12" Lucerville

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
11-17-68	J. Cable	Full	Last rain was 0.22" on 11/13 and 0.27" on 11/14 - 0.49" total.
12/30/68	Begeman	about ½ full	Last rain 0.96" on 12/26 Many cattle tracks to the tanks
2-9-69	ABBEY	WATER AVAILABLE BY DIGGING IN SAND	LAST RAIN .09" on 2-6 @ UC.
3-26-69	BEGEMAN	WATER IN THREE HOLES, APPROX 6-8" DEEP.	
1-3-70	Abbey	DRY	
1-10-70	"	"	
2-7-70	"	"	
1-20-70	"	" (except for damp sand)	Rain on 2-10-70
3-21-70	BROWN	Slight moisture in hole in sand	
2-24-71	Inman	[redacted] 1st pot 10"x10", ½" water 2nd pot 24"x24", 4" water	Only sign cattle
6-2-71	Inman	dry	Bad drought. .05 Rain since Nov. Cattle sign.
7-19-1971	KEN PATRICK	WATER IN 3 TINAJAS APPROX. 9 TO 10 GAL. TOTAL	AMOUNT OF RAIN IN THE AREA UNKNOWN - FRESH DEER TRACK AND 1 UNSHOD HORSE FROM THE SOUTH. MUCH BURRO SIGN.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Lukeville (old, hand dug) Well (Customs)

Quadrangle Luke-ville **T.** 18S **R.** 5W **Elevation** 1400 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Located immediately north of residence of Port Captain in Lukeville; enclosed by fence with new well.

Terrain: Flat; surrounded by Lukeville housing, etc. development.

Ground Cover: None, residential area.

Flow: Past (date) Unk. **Present** unk.

Depth 90' (65'-) **Length** **Width** **Storage** gals. (estimated)

Brief History: Dug by Lon Blankenship in 1917. 65 ft. deep (Dunn 1951) Formerly had windmill. Formerly known as the Blankenship Well.

Present Development and Human Use: No longer in use because of contaminated water appearing in samples 7-8 years ago.

Wildlife Use: None. sealed.

Remarks & Recommendations:

1. **Development and Maintenance** Well is presently sealed with a concrete block and contains pump on top. Could probably be used.

2. **Protection and Use** Consideration has been given to potential of well for building fire use.

Observer-Compiler Bill Hoy **Title** Seas. ranger. **Date** 7/14/28 (68?)

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Lukeville (new, drilled) Well (Customs)

Quadrangle Luke-ville **T.** 18S **R.** 5W **Elevation** 1400 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Located immediately north of residence of Port Capitan residence in Lukeville; Enclosed by fence with old well.

Terrain: Flat, surrounded by Lukeville housing, etc. development.

Ground Cover: None; residential area.

Flow: Past (date) _____ **Present** _____

Depth 131' **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Bid awarded in 1950 for 1,245.00. Drilled in 1951.

Present Development and Human Use: Provides water for Customs and other families on east side of road. Water is pumped up to small storage inside fenced compound.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use**

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/14/68



ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: NPS Wells (no. 1 & no. 4)

Luke-ville
Quadrangle ville **T.** 17S **R.** 5W **Elevation** 1670 **ft. Map Scale** 1:62500

Photos No **Sketch** No **Recorded on Map** Yes

Access Route: 50 yds east of No. 1 House, ORPI

Terrain: Flat, wash behind wells.

Ground Cover: Legumes in Wash.

Flow: Past (date) see attached page **Present** _____
See attached page

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: No 1 drilled 7/41; no. 4 drilled 11/57. 100,00 gal reservoir & connecting water line for hqtrs. residential area built in 5/58. #1 well colapsed 1974. #5 drilled 3 feet to noth of #1 well 1974. All wells now have electric pumps.

Present Development and Human Use: Domestic use for NPS residents & campground.

Wildlife Use: Only indirectly, bird ponds, etc.

Remarks & Recommendations:

1. **Development and Maintenance**

2. **Protection and Use**

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/27/68

MAX LOCAR V.I.P 5-4-78

4-5-

LUKEVILLE WELL

CUSTOMS

DRILLED _____?

ELECTRIC PUMP

2 GRAVITY TANKS

2 PRESURIZED TANKS

M.B.

WATER SOURCE REPORT

Name of Water source Lukeville (Organ Pipe City) Drilled.

Quadrangle Lukeville T.18S R. 5W Elevation 1400 Ft.

Access Route Both wells are easily seen a short distance east of the Lukeville (Gringo Pass) Motel

Terrain Flat, barren.

Ground Cover Virtually none

Flow Past (Dates) Unk.

Depth (Max) New(closest) approx. 50' to water, 110' of water (at least)
Old(fartherest): 90'-92' to water; 45' of water

Length Ft. Width ft. Storage gals. (estimated)

Brief History

Present Development and Use Used by Organ Pipe City. Easternmost well not producing good water; used only for non consumption, e.g., washing cars.

Wildlife Use None

Remarks & Recommendations

1. Development & Maintenance None

2. Protection & Interpretation None

2.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Dowling Well

Quadrangle Luke-ville **T.** 18S **R.** 6W **Elevation** 1400 **ft. Map Scale** 1:62500

Photos _____ **Sketch** No **Recorded on Map** Yes

Access Route: From lower end of Puerto Blanco Drive drive west 1.2 mi. & turn south on narrow road ± ¼ mi. to Ranch.

Terrain: Rolling hills. Well on bank of Dowling Wash, good saguaro stands.

Ground Cover: Mesquite in drainage areas, good stands of saguaro.

Flow: Past (date) _____ **Present** _____ (Windmill)

Depth 150' (80' to water) **Length** _____ **Width** 4X4' **Storage** 12,000 **gals. (estimated)**

Brief History: Used in late 1800's as trading post by E.E. Dunbar. Later used by Pat Dowling who had a mill for his mine in Sonoyta. Also adobe custom house there. Abandoned ± 1915. Presently homesteaded by Robert Louis Gray.

Present Development and Human Use: Residence of "Bobby" Gray and family.
Sold to Al Gay 1977.
2 wells
1 well caved in

Wildlife Use: Probably miscl. use in water trough.

Remarks & Recommendations:

1. **Development and Maintenance** None at present.

2. **Protection and Use** Should be considered for visitor use area or wildlife center upon termination of Gray partnership.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/27/68

MAX LOGAN U.I.P 5-4-78

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Gachado Well

Quadrangle Lukeville **T.** 18S **R.** 5W **Elevation** 1400 ft. **Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive to Lukeville Customs and turn left (east) at boundary fence and drive 2 miles to well located just off the road.

Terrain: Flat, few washes. Water obtained from underground flow of Gachado Wash.

Ground Cover: Creosote, salt bush.

Flow: Past (date) 20,000 gal/day/ 6/52. **Present** _____

Depth 60'/ 6/52; orig. depth-+ ft. **Length** 4' **Width** 4' **Storage** _____ **gals. (estimated)**

/80', 55'.to water.

Brief History: Dug by Lon Blankenship around 1916-1920. Papagos claim Gachado a watering place for over 300 yrs. Named after the large, very old mesquite tree at the site with the crooked limb. Gachado refers to crooked, bent.

Present Development and Human Use: An adobe one-room house, corral and windmill (fallen). Used for round-up purposes.
Well caved in at 17'. Date _____
Adobe house restored on outside, date 1973.

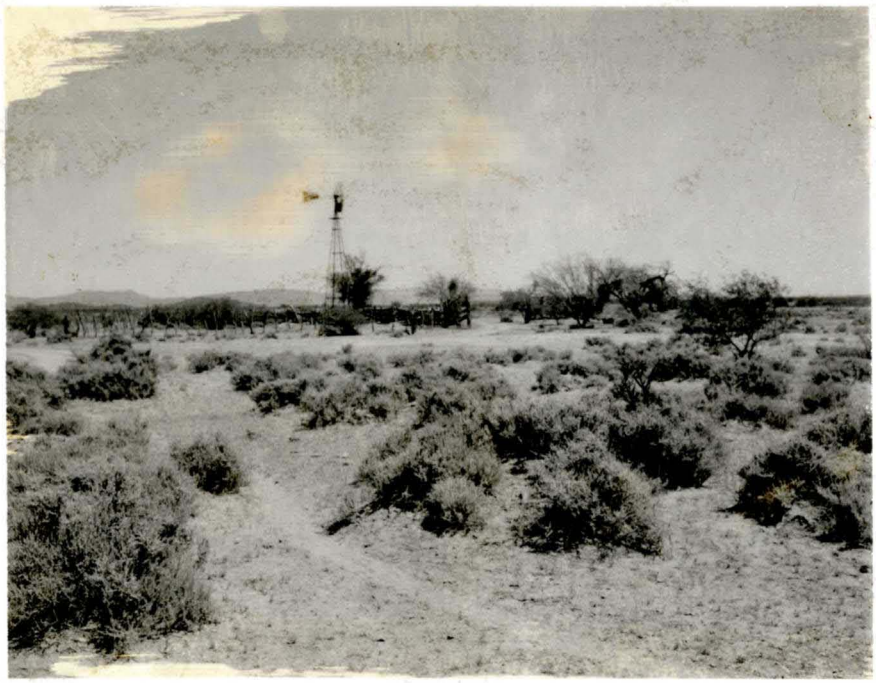
Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance** Adobe house should be preserved as example of architectural border history. Selected by Regional Historian as a primary historical site (in conjunction with Blankenship). Break in wall should be repaired.

2. **Protection and Use** See Historical sites and structures survey report, ORPI library.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/14/68



GACHADO WELL: Photo 1963

Due 1800

T 18 S
R 5 W
SEC 9

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Red Tanks Well

Quadrangle Luke-ville **T.** 17S **R.** 6W **Elevation** 1865 **ft. Map Scale** 1:62500

Photos yes **Sketch** no **Recorded on Map** yes
Photo in hazardous mine & well book page 55.

Access Route: Drive from start of P. B. Drive 3.7 mi. to primitive road jct. on ~~right~~ left; drive primitive rd. .2 mile to well on ~~right~~ left.

Terrain: rolling hills

Ground Cover: good growth of miscl. plantlife.

water in bottom 6/2/71.
Stone fell 4 sec. 256 ??

Flow: Past (date) None **Present** None

Depth 61/ **Length** ~~Diam~~ 4' **Storage** gals. **(estimated)**
Water depth--± 19 ft.

Brief History: Dug by Gray family, probably Bobby & Ralph. Bobby states well water formerly over 100 ft. deep (?).

est. ± 1932

Present Development and Human Use: none.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** Present cultural development: a very small wood-frame shack (upside down) and scattered miscl. utensils & debris. Wooden supports indicate an earlier windlass. Timbers cover well and should be left covered to prevent wildlife from falling into well. Well is unlined, but shows little filling in from sides.

2. **Protection and Use** Should be left intact (except for minor cleaning of litter) as example of recent history water source (dug well).

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/12/68

MAX HOGAN U.I.P.



WATER SOURCE HANDBOOK

Name of Water Saltwell (Pozo Salado)

Quadrangle Lukeville T. 17S R. 6W Elevation 1230 ft.

Access Route
Drive west on S. Puerto Blanco Drive to large international boundary marker. Drive .6 miles turn north .6 mile to well.

Terrain
Flat

Ground Cover
Over grazed, mesquite, saltbush, club cholla

Flow (Datos)

Depth (Max.) 115 ft. Length ~~Drilled Well~~ HAND DUG ft. Width ft. Storage Gals. (est)

Brief History
Dug by Henry Gray in 1942, used to water cattle.

Present Development and Use
3 compartment corral. Two stock tanks, windmill in working order.
WINDMILL REMOVED BY UNAUTHORIZED PERSONEL - FEB. 1979
Wildlife Use
Birds, feral live stock
Remarks and Recommendations

1. Development and Maintenance
   This is one of the water sourced ear marked to be retained in the (approved 1977) resource management plan. Will be retained until water study is completed to determine if it is to be retained permanent.

2. Protection and Interpretation
   One tank has been water proofed.
   Windmill is being kept in working order.

4/69

Observer - Compiler Max Logan Title VIP Date 04/25/78

Tinajas: Jackson's Hole
Puerto Blanco
Bates Pass Tinaja
Estufa
Acuna
Kino Tinajas
Pinkley
Bañera Tinaja

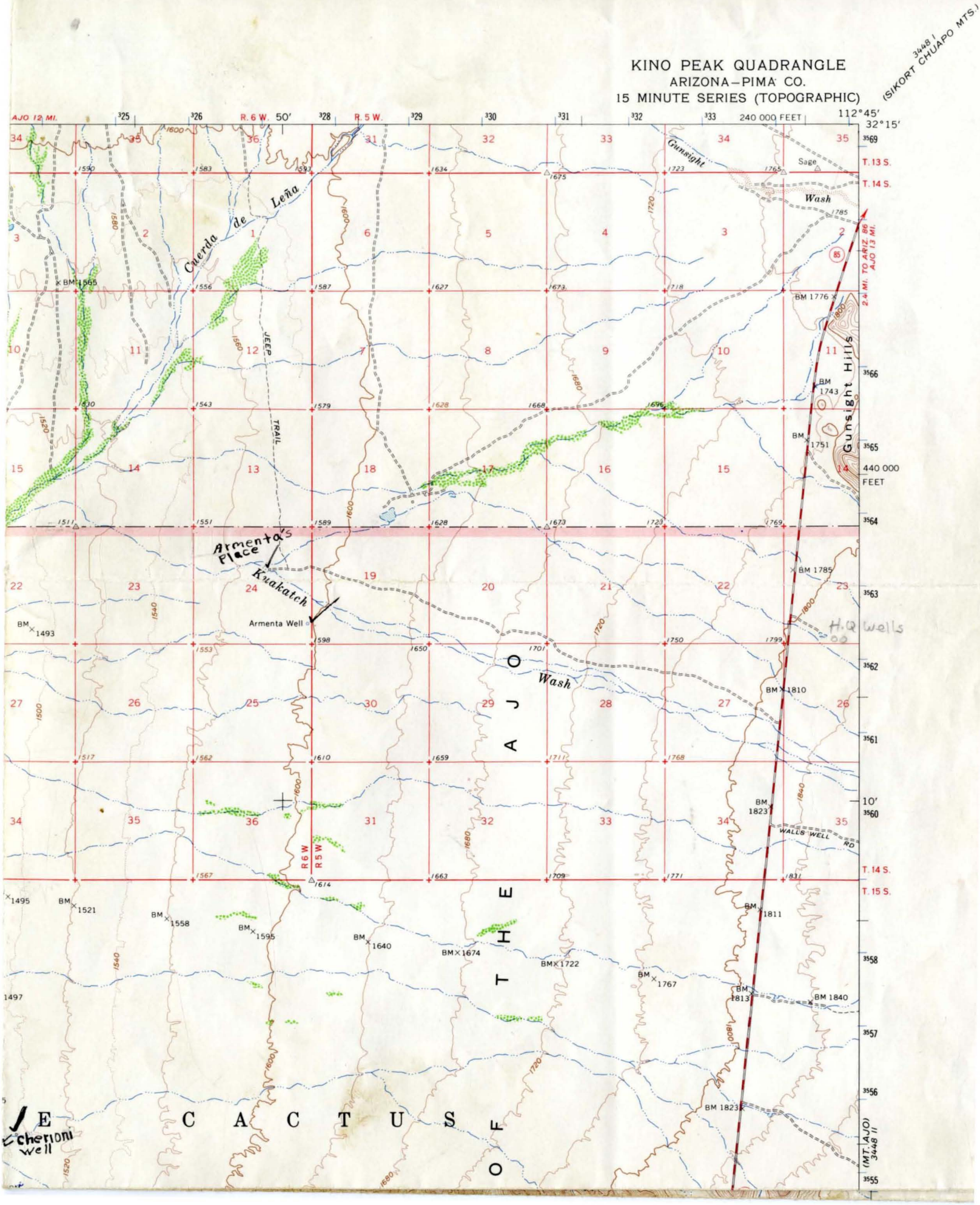
Springs: Dripping Springs

Wells: Dripping Springs Well
Cherioni Well
Daniel's Well [redacted]
Bates Well
Bonita Well
Headquarters Well
Armenta Well
Acuna Well

KINO PEAK




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
113°00'
32°15'
R. 7 W.
R. 6 W.
55'
10'
T. 13 S.
T. 14 S.
T. 15 S.
CABEZA PRIETA
GAME RANGE
Growler Mountains
John the Baptist Mts
Lime Hill
Mines
Bandeja Well
Bluebird Mine
Ruins
Scarface Mtn
Mine
BM 1543
BM 1513
BM 1485
BM 1468
BM 1487
BM 1402
BM 1381
BM 1363
BM 1306
Bates Well
USLM 2746
Daniells Well
BM 1242
BM 1332
BM 1376
BM 1398
BM 1420
BM 1457
BM 1310
BM 1290
BM 1262
Growler Pass
Growler Canyon
Growler Wash
Cuerda de Leña
Cherioni
BATES ORGAN P
Tinajas King
Bates
JEEP TR
WELL
ROAD
PAPAGO WELL 20 MI.
see Agua Dulce map


KINO PEAK QUADRANGLE
ARIZONA—PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)
3448 I
(SIKORT CHUAPO MTS.)
AJO 12 MI.
R. 6 W.
R. 5 W.
240 000 FEET
112°45'
32°15'
T. 13 S.
T. 14 S.
T. 15 S.
440 000 FEET
10'
Cuerda de Leña
JEEP TRAIL
Gunsight
Wash
Sage
Gunsight Hills
2.4 MI. TO ARIZ. 86
AJO 13 MI.
Armenta Place
Kuakatch
Armenta Well
Ajo Wash
WALLS WELL RD
THE CACTUS OF
(MT. AJO)
3448 II
BM 1565
BM 1776
BM 1743
BM 1751
BM 1785
BM 1493
BM 1810
BM 1823
BM 1811
BM 1521
BM 1558
BM 1595
BM 1640
BM 1674
BM 1722
BM 1767
BM 1813
BM 1840
BM 1823
1495
1497
H.Q Wells
Echeroni Well

(QUITOBAQUITO SPRINGS)
3347 I

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1963

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Where omitted, land lines have not been established

GN MN

1°00' 18 MILS 13½° 240 MILS

UTM GRID AND 1963 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

1 ½ 0

3000 0 3000 600

1 .5 0 1

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FOR SALE BY U. S. GEOLOGICAL S
A FOLDER DESCRIBING TOPOG



AL 40 FEET
20-FOOT CONTOURS
SEA LEVEL

MAP ACCURACY STANDARDS
25, COLORADO OR WASHINGTON 25, D. C.
ID SYMBOLS IS AVAILABLE ON REQUEST

KINO PEAK, ARIZ.

N3200—W11245/15

1963

AMS 3448 III —SERIES V798

not a permanent source

ORPI 1/71

WATER SOURCE REPORT

Name of Water Source House Finch Tinaja

Quadrangle Kino Peak **T.** 16 S. **R.** 6W **Elevation** 2,000 **Ft.**

Access Route From Puerto Blanco Drive post no. 3 or 4 walk nortwesterly into lg. drainage immediately north of the similar drainage terminating in Government Tinaja*(see). From lg. volcanic tuff "fin" in upper section tinaja is on shelf out of sight to right (south) of fin. Look for birds. on sm. shelf ± 20' above ground

Terrain Rocky, draiage with wash-type gravel, rocks. Tinaja on lip of shelf. Drainage into tinaja noticable from wash bottom. Plunge pool probably in rhyolite rock.

Ground Cover Typical foothills brush type.

* Pinkley Tinaja

Flow Past (Dates)

Depth (Max) two ft. when full. At time 1 ft. in 1/24/71
Length 4 ft. **Ft.** **Width** 2 ft. **Ft.** **Storage** **gals (est.)**

Brief History First recorded by Bill & Marina Hoy on 1/25/71. Called House finch tinaja because of such finches that led us to tinaja.

Present Development and Use

None

Wildlife Use Only birds noticed, probably sheep use since sign heavy on higher slopes above tinaja.

Remarks & Recommendations

1. **Development & Maintenance** Probably cannot be deepened due to lip of tank drops onto approx. 20 ft. above ground.

2. **Protection & Interpretation**
   Probably none would be profitable.

Compiled by: Bill & Marina Hoy

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source House Finch Tinaja

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
1/25/71	Hay, B & M.	1 ft. depth	(2 ft. when full) 4'X 2'
4/13/71	Drumond M. Hay	dry	(dry winter) No animal sign but strong scent of Bighorn everywhere.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Jackson's Hole (Tinaja)

Quadrangle Kino Peak **T.** 16S **R.** 6W **Elevation** 1700 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive PBD rd. to within 3/4 mi. below Dripping Spgs. Turn north on primitive rd. for 3/4 mi. Walk towards 2 sm. hills 3/4 mi. to west. skirt north side of left hill & into sm. basin & out to tinaja.
Terrain: Generally flat. Tinaja in bed rock just west of slight ridge.*

Ground Cover: Miscl. Palo-saguaro along access route. Tinaja area bare palo verde at rock edge.
Flow: Past (date) _____ **Present** _____

Depth 4'9" **Length** 9'8" **Width** 5'1" **Storage** _____ **gals.** (estimated)

Brief History: Sherds & chips in area indicate Indian use. Rough steps into tank & scattered cans, etc. suggest temporary anglo or ex. use, possibly bootleg. Name derived from after SWMA director Earl Jackson, who, some years back, spent a day here on a Christmas bird count. First recorded by Ranger Dick Strange in 3/64.
Present Development and Human Use: * Ranger Strange notes from ./ mi. on old Ajo Sonoyta rd. turn right & drive faint tracks .9 mi. to base of two hills.

Wildlife Use: None evident except white-wing birds. Due to steep sides, ungulates may not be able to reach water unless tinaja is full.

Remarks & Recommendations:
1. **Development and Maintenance** None

2. **Protection and Use** Could be used for a hike for visitors. Early man use should be researched.



Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 6/27/68



① go around notch in photo #1
② a rock ridge will be between you + the big mt. + photo #2
③ go around south side of this ridge + you will see another the one in photo #2.

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Jackson's Hole depth 4' 9" (57")

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions; wildlife use)
06/27/68	Cable/Hoy	Av. 18" deep Relatively clean	Hot-Dry. No wildlife or sign evident except white-wing doves. Where is major wildlife water source?
12/07/68	Cable	last rain 11/13-14/68 .49 water level same as above	Dry-Cool Windy No wildlife or sign evident
12/14/68	Cable	Same as above	Dry-Cool Windy Same as above
04/03/69	Brown	Approx. 3' below rim	
04/13/69	Cable	Same as above	Same as above
06/13/69	Cable	Eight (8) inches deep	Hot-Dry White-wing
02/20/70	Abbey	36" deep	Light rain White-wing
06/01/71	Inman	Dry	Bad drought. 1.05" rain since Novemeber. Cat and dog sign in depression in rock surface near tinja

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Jackson's Hole
(Photos)

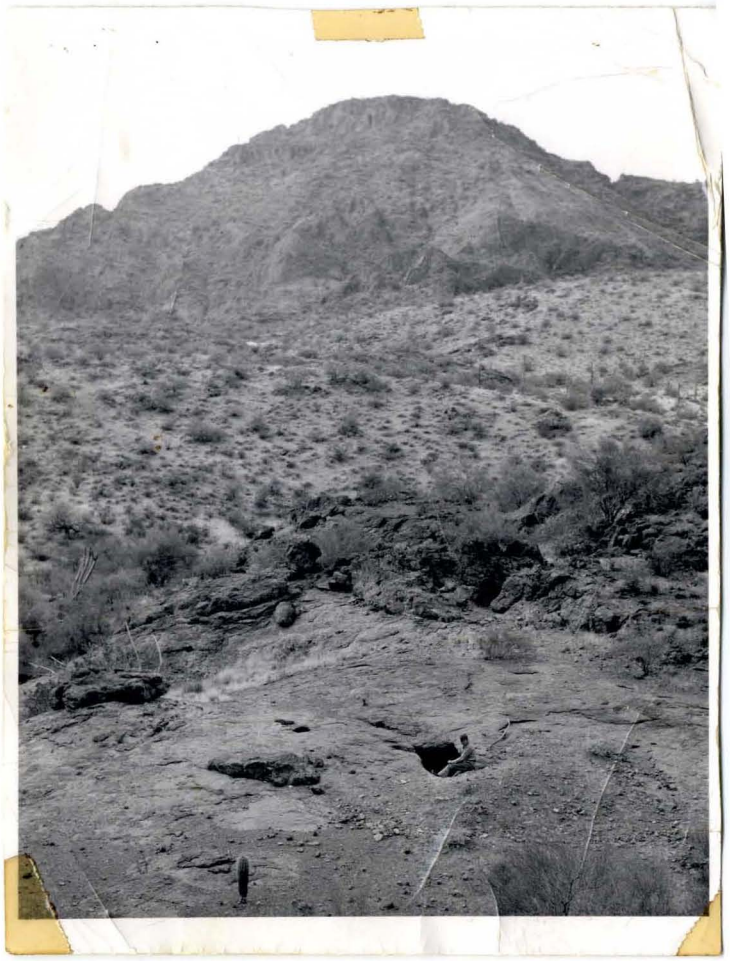
18

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ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tinaja Puerto Blanco, Puerto Blanco Water Hole

Quadrangle Kino Peak **T.** 16S **R.** 6W **Elevation** 2000 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive Puerto Blanco Dr. to about the 10-mile post. From here walk 1¼ mi. south towards prominent cleavage keeping to right of low red hills. A lg. mesquite tree is seen at tinaja from some distance.
Terrain: Slopping bajada to tinaja. Tank located at base of steep tuff cliffs.
Ground Cover: Miscl. cactus, creosote. Mesquite at tinaja.

Flow: Past (date) _____ **Present** _____

Depth 4'3" **Length** 9'8" **Width** 5'1" **Storage** _____ **gals. (estimated)**

Brief History: First recorded visit by Ranger Dick Strange in 5/62. Re visited by Cable & Hoy in 6/68. A lg. overhang to the right & just before the tinaja contains a smoke-darkened ceiling, 2 mortars and a sm. amt. of plain black pot sherds.

Present Development and Human Use: None.

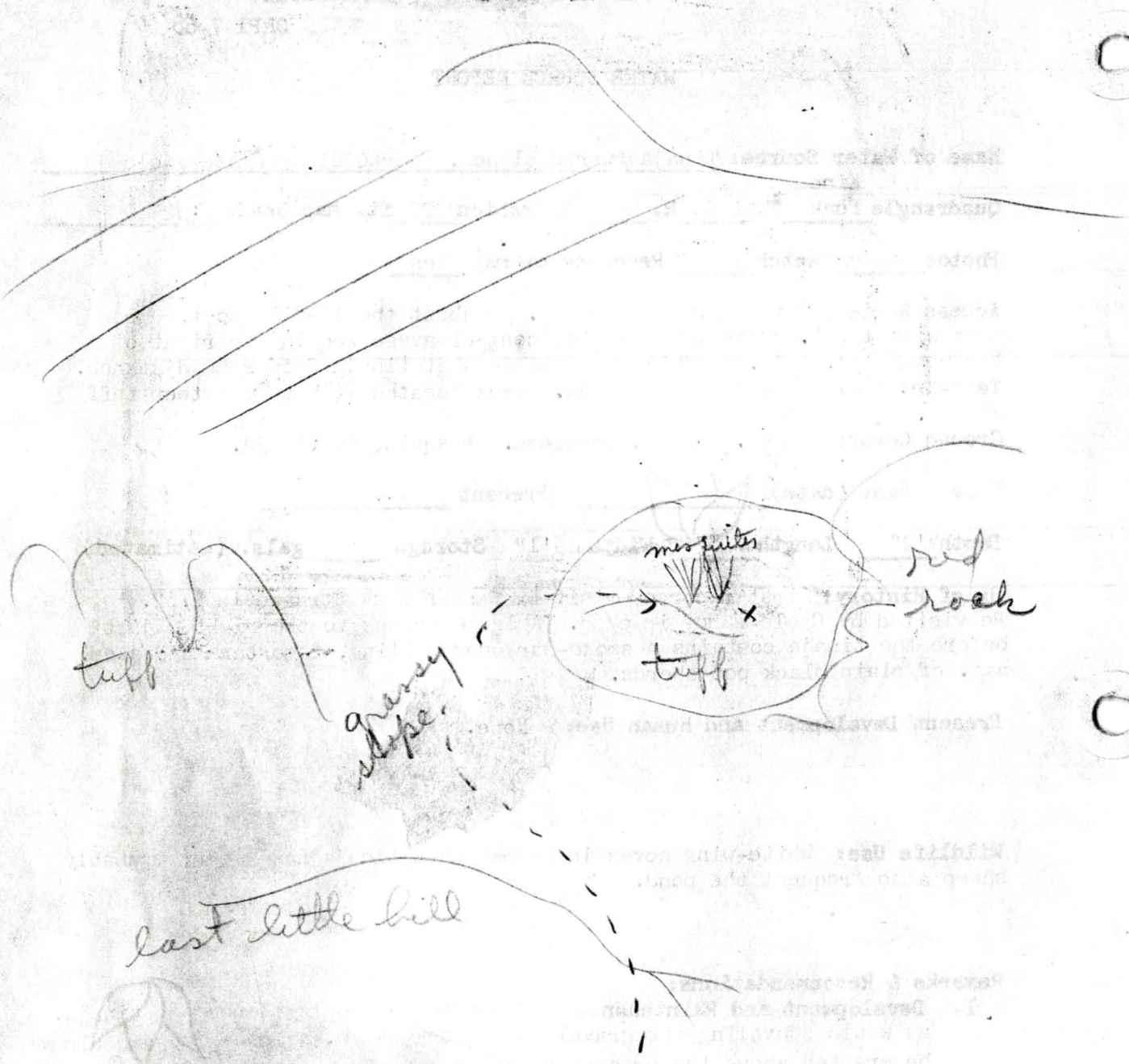
Wildlife Use: White-wing doves in summer when tinaja has water. Probably sheep also frequent the pond.

Remarks & Recommendations:

1. **Development and Maintenance** A concrete dam would deepen the tinaja, as would shoveling the gravel out of the basin. Another tinaja could be created above the present one w/ a cement dam.

2. **Protection and Use** See above.

Observer-Compiler Wilton Hoy **Title** Ranger **Date** 6/27/68

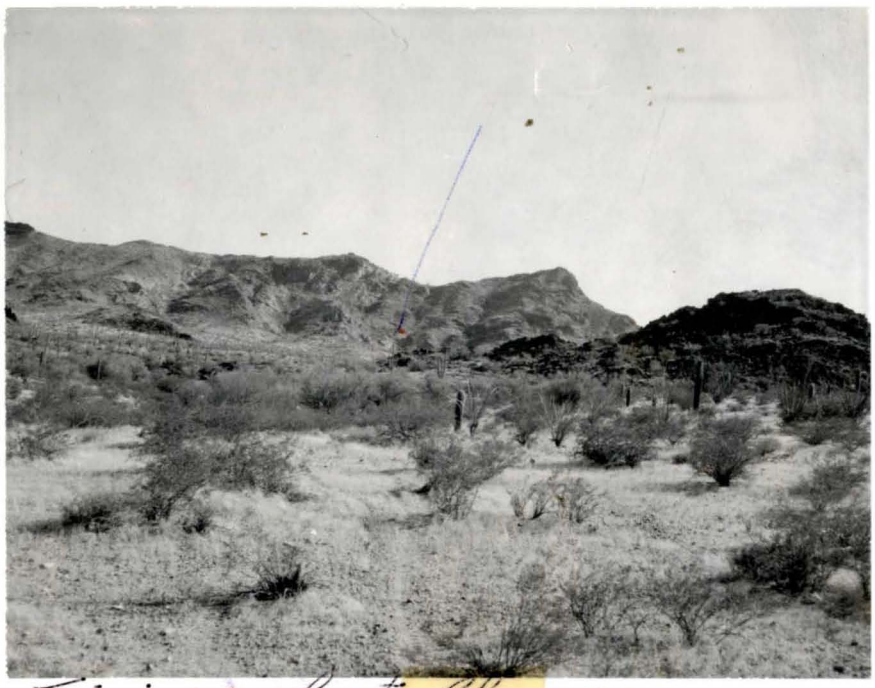

mesquites
red rock
tuff
tuff
grassy slope
last little hill

WATER SOURCE REPORT
PERIODIC CHECK

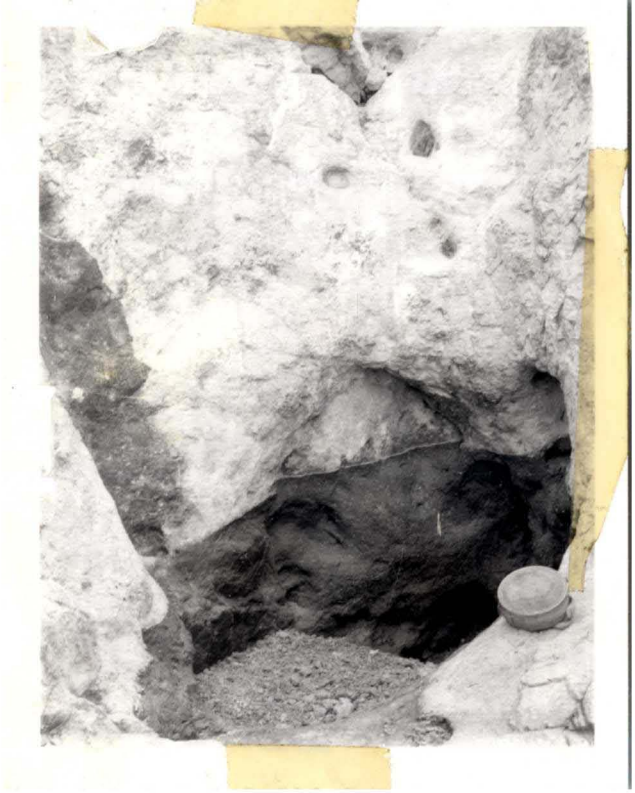
Name of Water Source PUERTO BLANCO WATER HOLE

Depth 4'3"(51")
Kino Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
6/27/68	Cable-Hoy	Dry	Long drought period, considerable digging in gravel
12/14/68	Cable	Full	Last rain 11/12 & 13/68 total of .49
4/13/69	Cable	Full	Last rain 4/10/69 unknown amount
6/13/69	Cable	7" deep & 13" across	Four bighorn sheep (2 females 1 young male and 1 lamb 2 were drinking when I saw them).
7/09/69	Begeman	Dry except for wet sand at bottom	18-24 quail in area - a few doves (10 a.m.) lots of bees.
1/16/70	Abbey	4 ft. of water	Dry winter, except for light rain in 1/01/70
1/05/71	Henderson	Full	Cold winter - 1/4" of ice on surface.
6/02/71	Inman	Dry (damp spot)	Bad drought. 1.05" rain since Nov. Damp spot at deepest, cave end bees here.



Tinaja en Puerto Blanco



Lg mesquite tree seen at tin. some distance

Base of steep tuff cliffs.

U731124A

POLAROID

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Puerto Blanco Tinaja
(Photos)

18

ORPI 7/63

WATER SOURCE REPORT

Name of Water source Tinaja Acuña (Taylor-Coss Tinajas)

Quadrangle Kino Peak T. 15 S R. 7 W **Elevation** 2,080 Ft.

Access Route Walk up Acuna Valley from south. About a mile from isolated conical hill at south end of valley walk up walk right (east) side canyon and note series of eight tinajas.

Terrain Acuna basin is open generally level while side canyon w/ tinajas is tumbled volcanic terrain. Tinajas in bed rock chain effect.

Ground Cover Primarily rock in side canyon.

Flow Past (Dates)

Depth (Max) 1.5 ft.
Length 6 **Ft.** **Width** 3.5 **ft.** **Storage** **gals.** (estimated)
Above is max. deminsions. Smallest: 1'X1'X4" deep.
Brief History First recorded in January 1965 by Hal Coss and Jimmy Taylor (rangers) while returning from an ascent of Kino Peak. Measured and located in January, 1969 by seasonal naturalist Goodsell and park ranger Cable.

Present Development and Use None

Wildlife Use Unk.

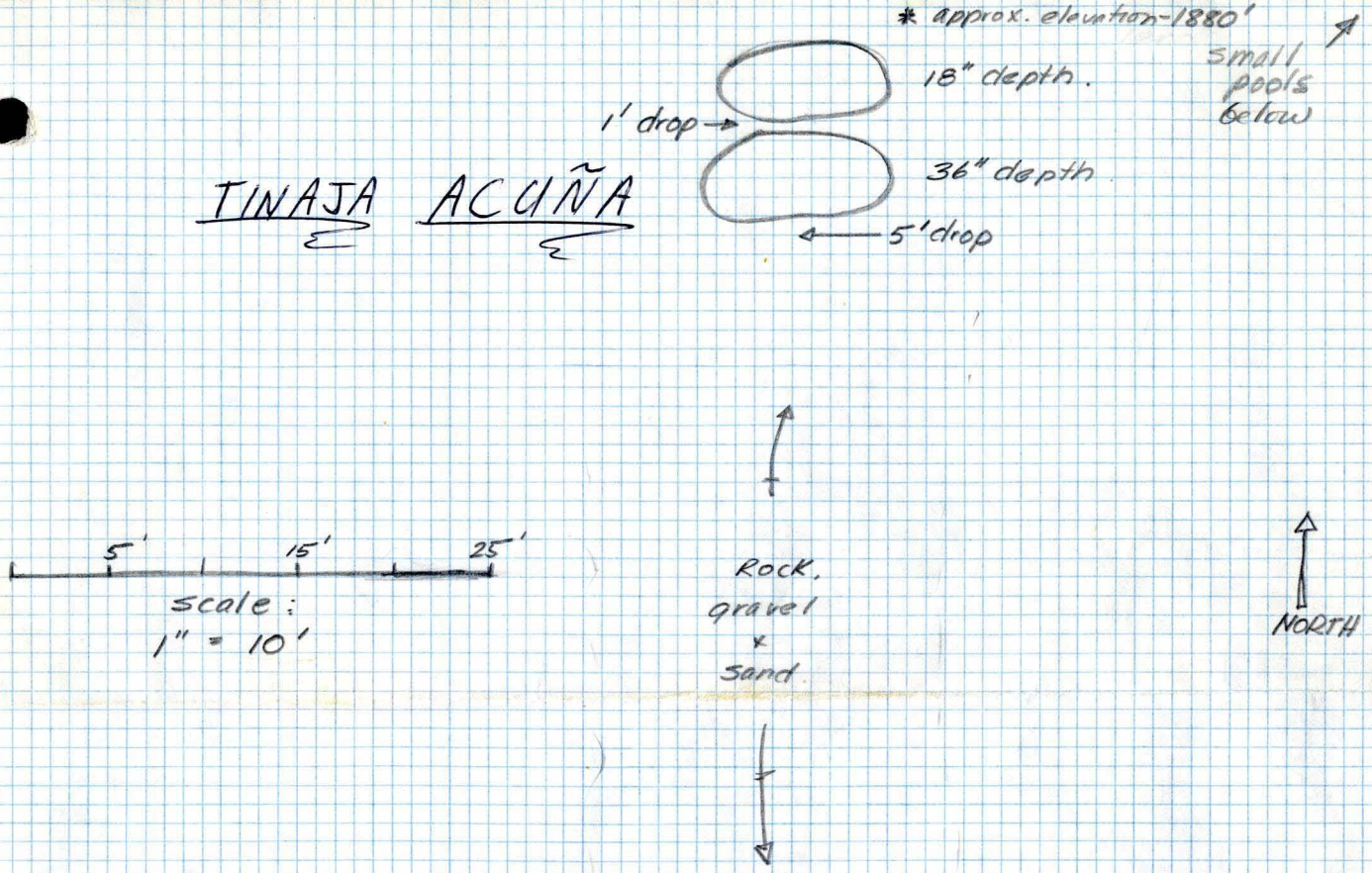
Remarks & Recommendations

1. Development & Maintenance None

2. Protection & Interpretation Possible use as side trip for Kino Peak climb or Acuna Valley trip.

"found" late Dec. 1972 by Jim Mason (Park Visitor)
holding plenty of water

TINAJA ACUÑA

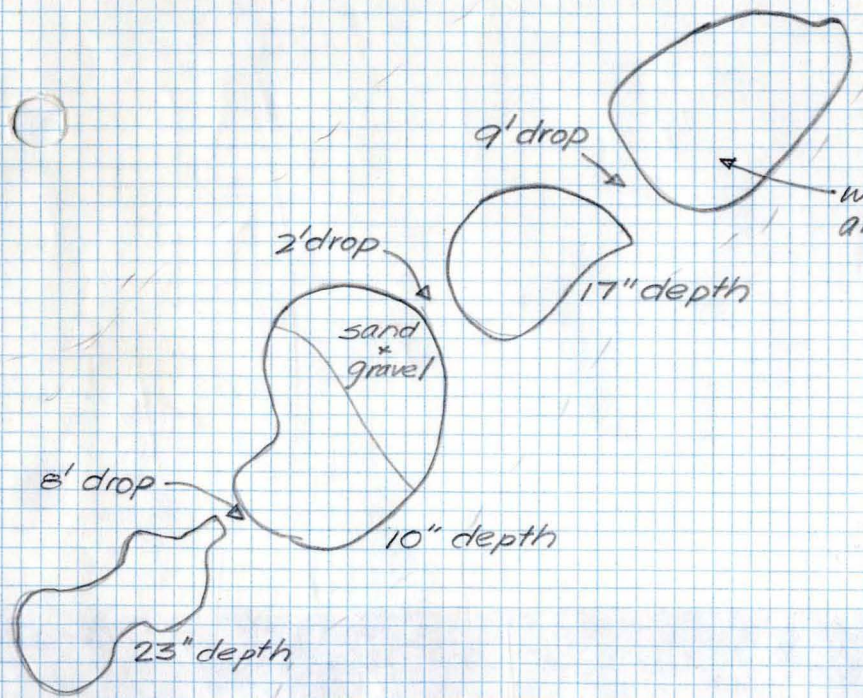


Rock, gravel & sand

granitic rock gorge

Only lowest and highest tanks appear to be accessible to cattle. No cattle signs were seen in vicinity of most tanks. Some indication of sheep & burro.

Some stones appeared to be broken portions of metates, located near balanced rocks.



*approx. elevation - 1950'

several very small pools above

tinajas in gorge southeast of tinajas altas in Bates Mountains.

Jan, 1973 ← R. L. A.

WATER SOURCE HANDBOOK

Name of Water Bates Pass Tinaja ? (or "Centipede Tank")

Quadrangle Kino Peak T. 15 S. R. 7 W. Elevation 1920 ft.

Access Route This tinaja is located about 400 yards east of the pass between Acuna Valley and Bates Well. Stand in this pass, face east and find the lowest route to the Cherioni Wash (or Estufa). The Bates Pass Tinaja can be found by going up the draw to the left (north). It looks obvious.

Terrain Gently sloping ground leads to the main tank. At this point, a 10 - 15 foot drop forms the main tank. There are a series of smaller tanks above and below the main tinaja.

Ground Cover Brush grows rather thick in the drainage below the main tank.

Flow (Dates) Precipitation runoff only.

Depth (Max.) 1½ ft. Length 5 ft. Width 1½ ft. Storage 65 Gals.(est)

Brief History Tinaja located by Abbey and Carrico on March 19, 1969 after glassing the area from Kino Peak.

Present Development and Use

No Development or known human use.

Wildlife Use Many birds in area, can be reached by all forms of wildlife, burros and cattle. No cattle use evident, burros were using lower pools.

Remarks and Recommendations

1. Development and Maintenance

None while cattle are still on the monument. Could be enlarged to approx 500 gal capacity by adding a cement lip. Sedimentation possibilities unknown.

2. Protection and Interpretation

Periodic inspection to determine permanence.

4/69

Jim Carrico, Supt.
Great Sand Dunes

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tinaja Estufa

Quadrangle Kino Peak **T.** 15S **R.** 7W **Elevation** 1900 ft. **Map Scale** 1:64500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Begin from either approx. 5 miles west of Dripping Spgs and & drive bad mining road to or near Acuna Well or leave from mining road near Bates Well and hike south. Walk up slope E. of Kino to cave & tinajas.
Terrain: Variable. Tinajas in bedrock on somewhat flat ridge. opposite (east of) Kino Peak.
Ground Cover: Saguaro, organ pipe cactus, palo verde, elephant trees (in valley.
Flow: Past (date) _____ **Present** _____

Depth 4' **Length** 20' **Width** 8' **Storage** 700 gals. (estimated) when clean
2' Diamater 20' 1,000 (when cleaned)

Brief History: Nearby cave with protuding stove pipe (estufa) used by Jack Ricks as bootleg still during prohibition era. (see History research files--Hoy for stories). Reported also used by Rube Daniels.

Present Development and Human Use: None

Wildlife Use: Used by cattle.

Remarks & Recommendations:

1. **Development and Maintenance** Rangers cleaned tinaja of gravel in 5/62. Annual cleaning not recommended at present due to misuse by cattle.

2. **Protection and Use** Interpretation. Presence of glyphs & bootleg stories make good interpretation. Presence of glyphs are always risky to allow public access.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** _____

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tinaja Estufa

Quadrangle Kino Peak **T.** 15S **R.** 7W **Elevation** 1900 ft. **Map Scale** 1:64500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Begin from either approx. 5 miles west of Dripping Spgs and & drive bad mining road to or near Acuna Well or leave from mining road near Bates Well and hike south. Walk up slope E. of Kino to cave & tinajas.
Terrain: Variable. Tinajas in bedrock on somewhat flat ridge. opposite (east of) Kino Peak.
Ground Cover: Saguaro, organ pipe cactus, palo verde, elephant trees (in valley.
Flow: Past (date) _____ **Present** _____

Depth 4' **Length** 20' **Width** 8' **Storage** 700 gals. (estimated) when clean
2' Diamater 20' 1,000 (when cleaned)

Brief History: Nearby cave with protuding stove pipe (estufa) used by Jack Ricks as bootleg still during prohibition era. (see History research files--Hoy for stories). Reported also used by Rube Daniels.

Present Development and Human Use: None

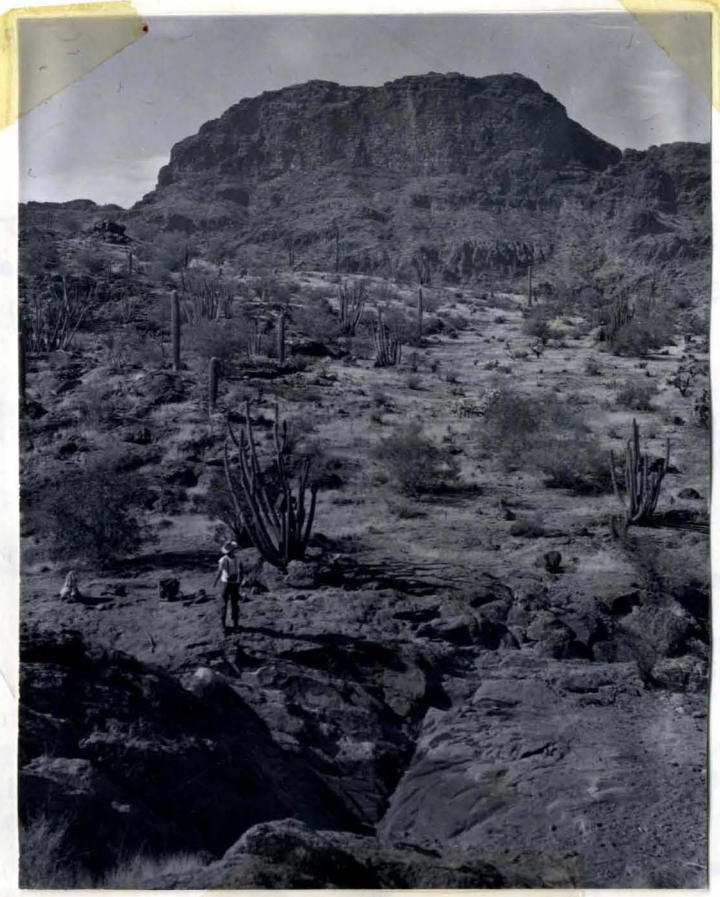
Wildlife Use: Used by cattle.

Remarks & Recommendations:

1. **Development and Maintenance** Rangers cleaned tinaja of gravel in 5/62. Annual cleaning not recommended at present due to misuse by cattle.

2. **Protection and Use** Interpretation. Presence of glyphs & bootleg stories make good interpretation. Presence of glyphs are always risky to allow public access.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** _____





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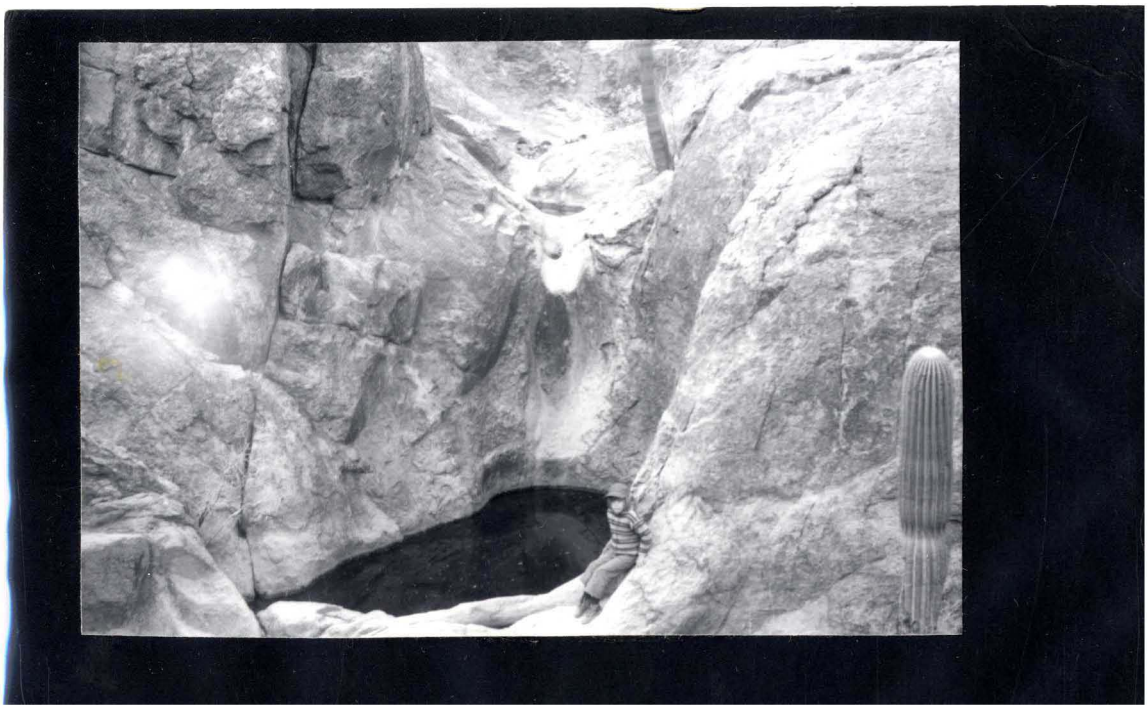
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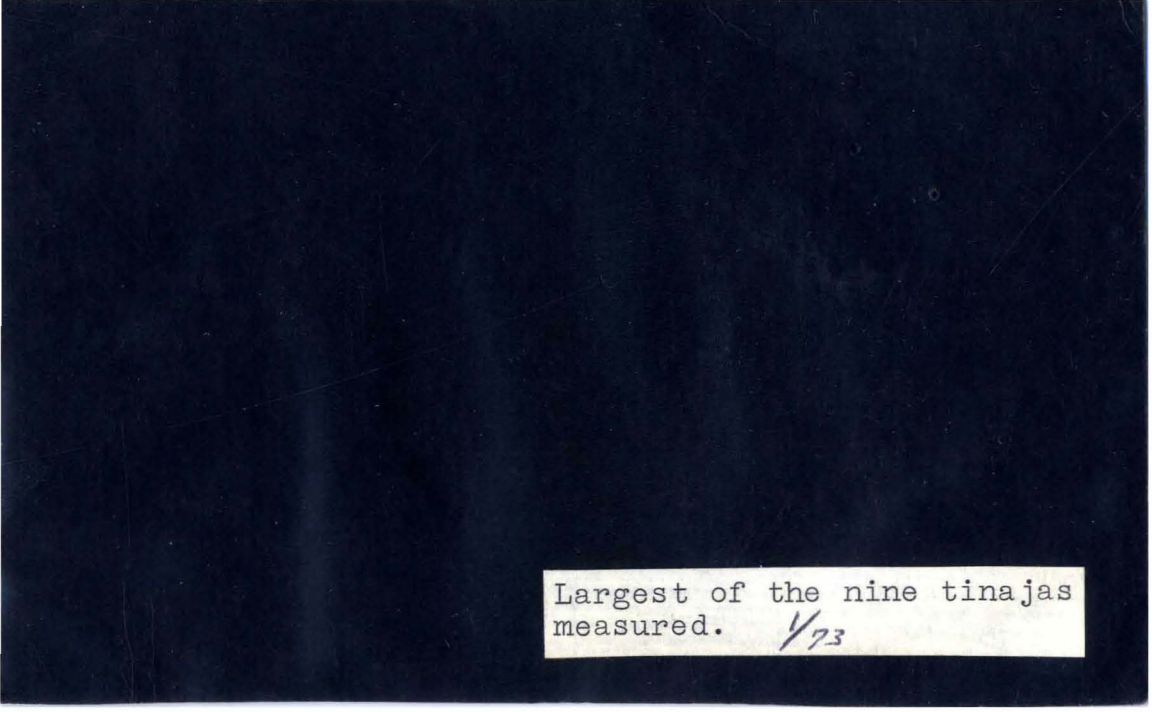
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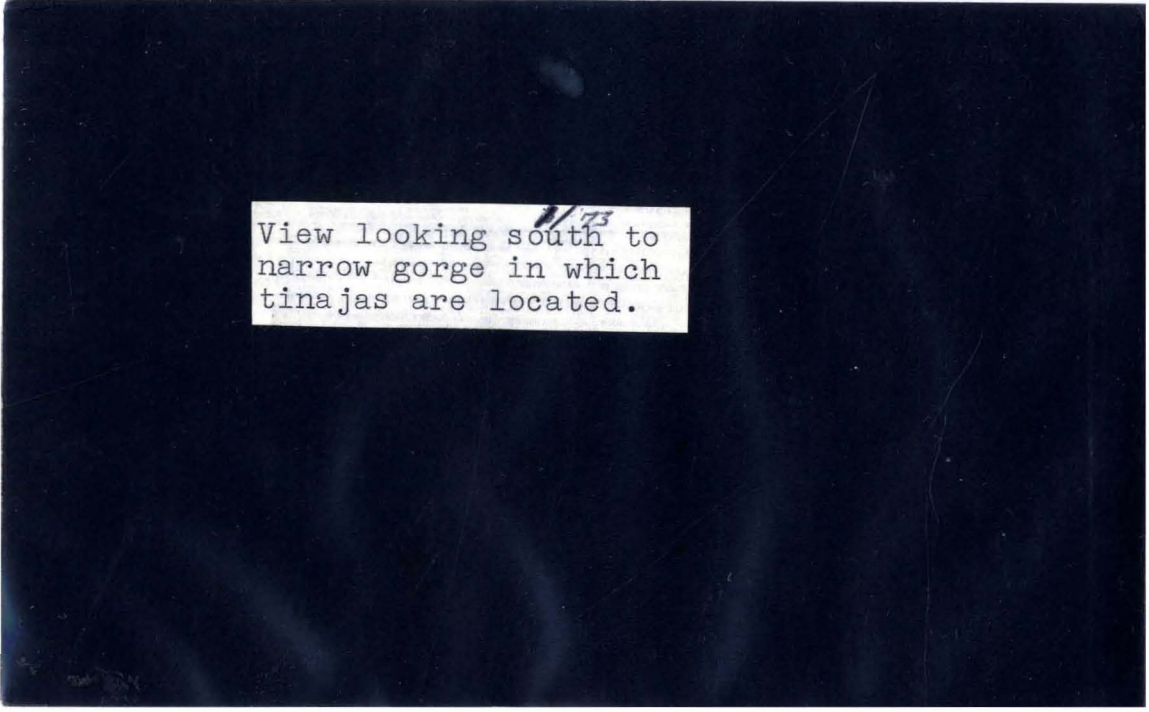
Tinaja Acuña and photo (slide)

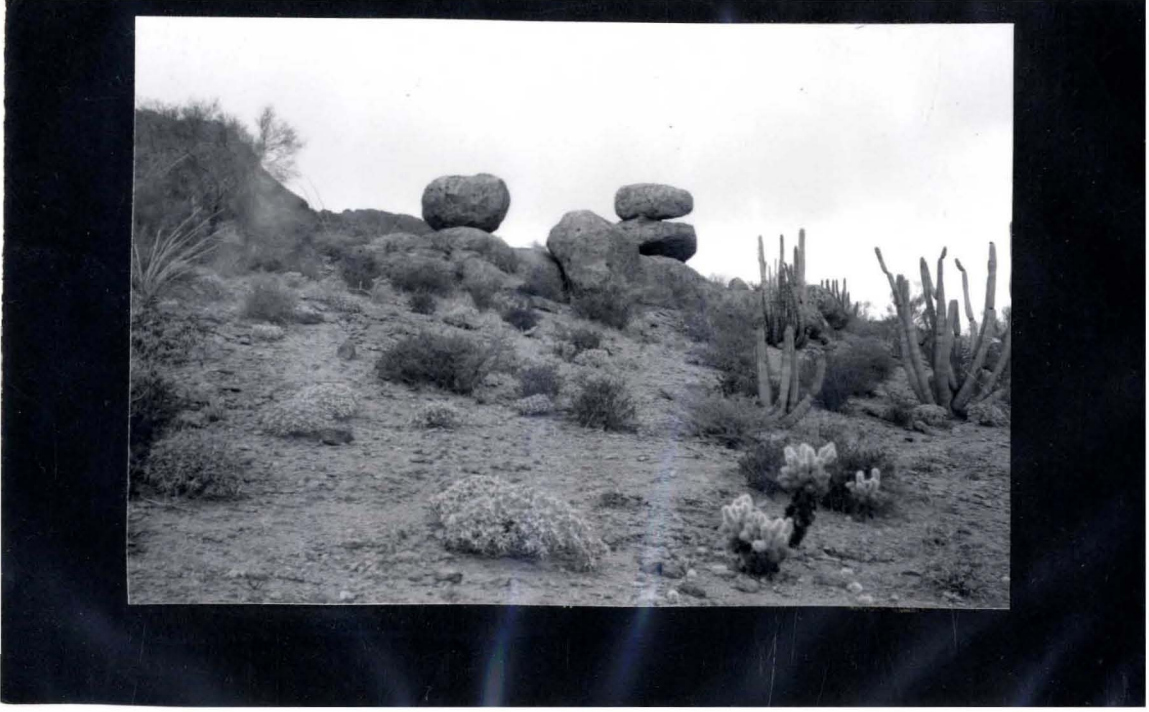


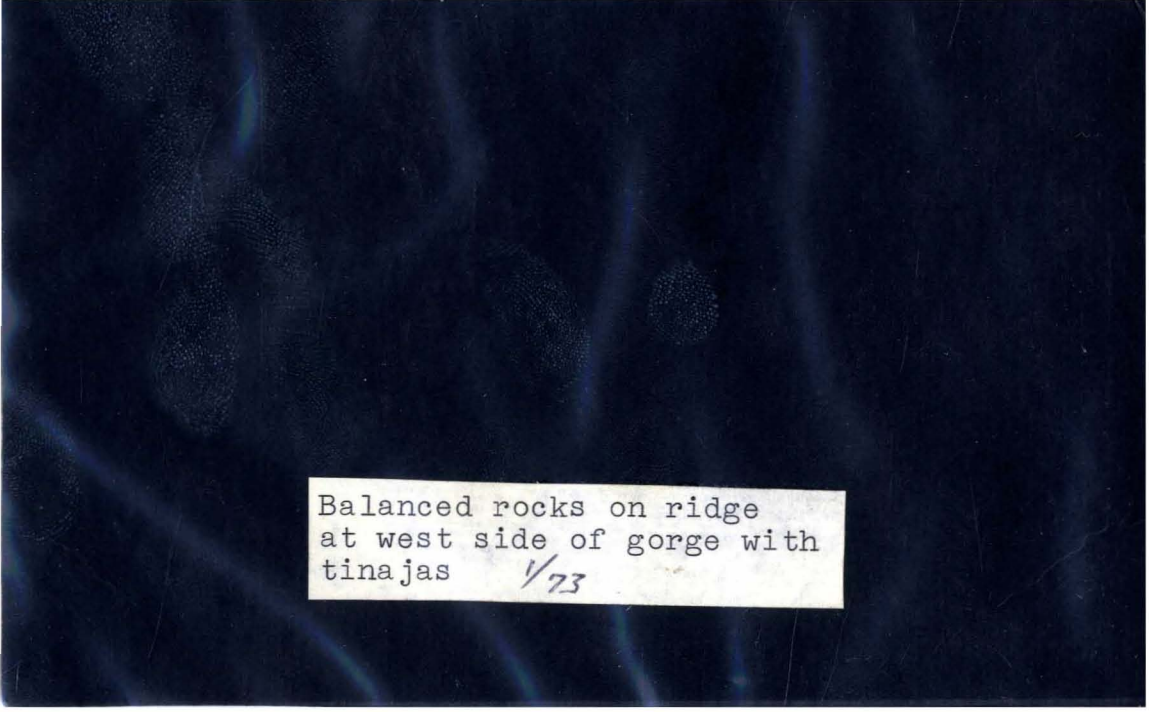


Largest of the nine tinajas measured. 1/73




View looking south to
narrow gorge in which
tinajas are located.





Balanced rocks on ridge
at west side of gorge with
tinajas 1/73

6/28/78 D. Henry

Possible discrepancy concerning descriptions of TINAJA Acuña.

The document titled "Water Source Report" and the color transparency by Goodsell seem to be in agreement, ie. are actually Tinaja Acuña. The two maps labelled "Tinaja Acuña" (one now changed to "Estufa") and dated '73, and the black and white photos, are of a different set of tinajas that are located near the Tinajas Estufa (and probably not Acuña).

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Tinaja Estufa Depth 4' Kino Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
12/7/68	Cable	empty	last rain 11/13&14/68 .49 cows use this tinaja frequently
12/28/68	Cable&Goodsell	full	last rain 12/26/68 .92 five cows were at the tinaja
4/18/69	Carrico	Upper 4', lower 2'	
5-20-70	Abbey	DRY, full of sand	Dry winter; cattle digging in sand, some moisture in holes



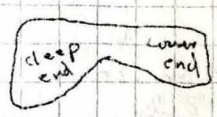
18 March

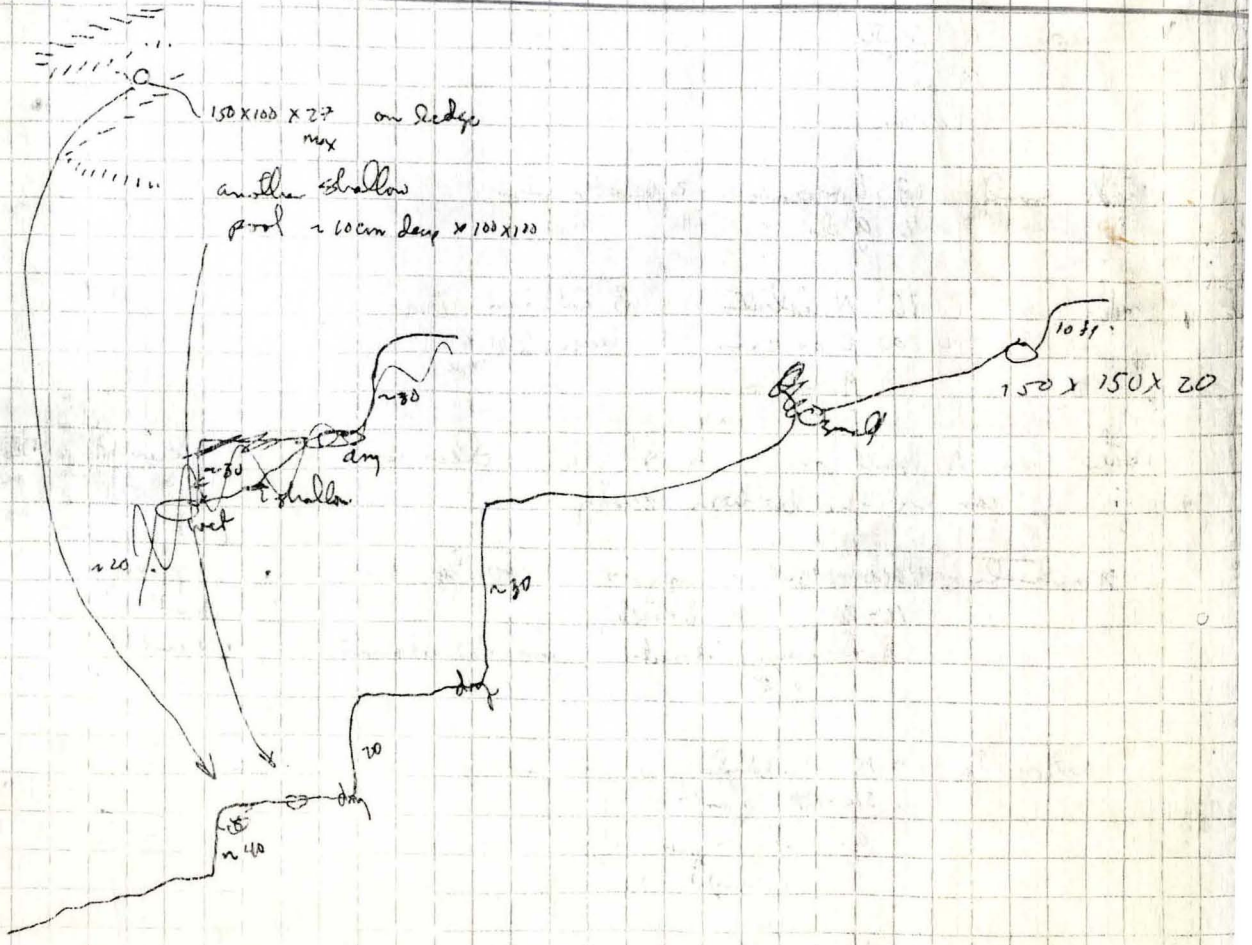
Estufa tinajas dip larvae & mosquitos no calicopsis or hemimerus
more open west drainage has only one or two big tinajas gravel bottom & exposed
the smaller drainage is steeper and has eight protected rock basin pools in steep falls type chain
east of balanced rocks. can see one or two tinajas from there

3/16/81
C. Wilcox
Eric Larson

Tinajas in canyon, deep plunging canyon SE of Estufa tinajas
8 tinajas total, measurements, starting from lowest

#1 250 L x 30 W x 32 D
#2 205 L x 100 W x 54 D
#3 135 L x 90 W x 35 D (perfect heart shape pool)
#4 180 L x 60 W x 16 D
#5 100 L x 230 W x 39 D
#6 140 L x 160 W x 44 D
#7 170 L x 140 W x 18 D
#8 Top end: 180 L x 120 W x 52 D
Lower end: 150 L x 75 W x 15 D

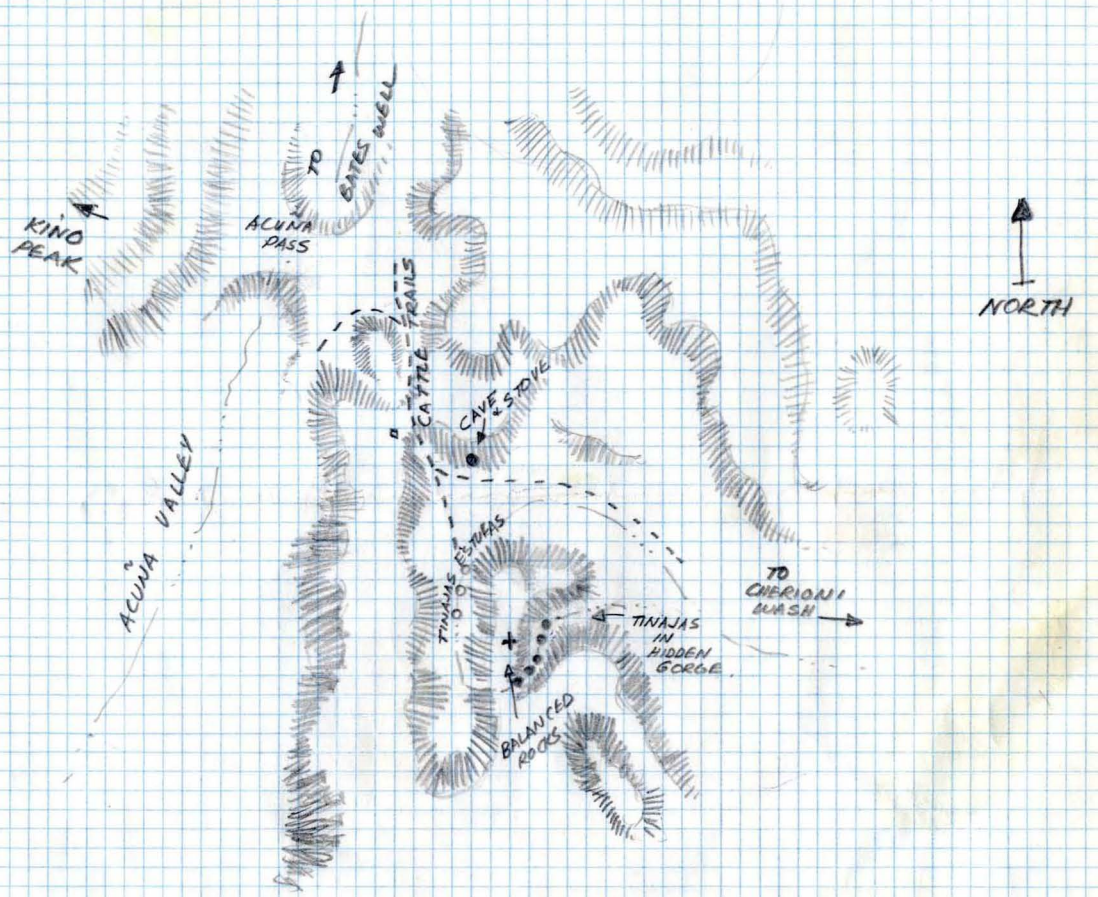




CHANGED BY K. COATES, THIS MAP APPEARS TO BE OF THE ESTUFA TINAJAS (AS LABELED BELOW). 5/24/78

TINAJA ~~ACUÑA~~ ESTUFA

BATES MTNS.



JAN, 1973 ← R.L.A.

Water Sources Hndblk.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

ORGAN PIPE CACTUS NATIONAL MONUMENT

IN REPLY REFER TO:

May 30, 1962

LOCATION OF TINAJA ESTUFA

After many weeks of fruitless searching, Rangers Wendt and Strange with guest hiker Leo Middendorf, finally located the Tinaja Estufa in the Growler Mountains. This was once the site of a whiskey "still", and was reportedly enlarged with concrete dams by one Rube Daniels for this purpose. There are convenient caves nearby which still show evidence of some questionable activity at some past date. Stoves, pipe, jars and the remains of garbage dumps are easilly located. The name estufa means stove-pipe, which refers to the stove pipe which extended from one of the nearby caves.

At the time of our discovery the tank was completely filled with gravel and sand which had been washed down from the upper slopes. Rangers completed the cleaning of this tinaja and at the last observation, May 25, 1962, free water was standing in the tank at a maximum depth of 2 feet. The potential depth of this tinaja, after a good rain, is approximately 5 feet.

The closest and easiest route seems to be: drive past the Dripping Springs turn-off approximately 5 miles and turn right at a white survey stake on a faint and rough road. This road heads back north for several miles, then turns west toward the Kino Peak area. The tinaja is located over the ridge to the right (east) of the valley that runs north and south to the east of Kino Peak, and the pass over this ridge is approximately opposite the northernmost edge of Kino Peak. After driving on this rough road for approximately 5 miles, turn right (north) at pile of small rocks. (This spur road leads to the old Montgomery Well just across the large wash.) Enter the wash and turn left, up the wash toward the opening of the valley. From here on you must pick your own way, but it is quite open and the previous car tracks should be obvious enough to follow. Much of the travel from this point on will be in the washes, which afford quite clear travel. After leaving the washes, bear toward the right side of the valley, as far into it as possible.

In walking from this point, keep to the right side of the valley, climbing gently with the valley floor, skirting the ridges that run down to the valley floor. When opposite the middle of adjacent Kino Peak, look for heavily used animal trail leading up the side hill toward an evident saddle. This trail is as obvious as most foot trails and affords the easiest ascent of the ridge.

When about 3/4 of the way up this ridge, notice an odd formation of square, evenly "piled" rocks on the skyline in the saddle above. These rocks feature some early pictographs or petrogliphs. The tinaja is just over the hill from here, in the bottom of the north-south wash.

ORPI 1/71

WATER SOURCE REPORT

Name of Water Source Kino Tinajas. First (bottom) of series of tinajas heart shaped. Named Tinaja del Corazon del Kino--Kino's Heart Tank.
Quadrangle Kino Peak **T.** 15S **R.** 7W **Elevation** 1600 **Ft.**

Access Route Drive Growler Valley rd. to south bank of Growler wash. Here drive southeast on primitive road (not shown on map) for about 2½ mi. until road ends. Pick-up type road, flat, brushy. Park at end of road and walk SE into lg. canyon and scramble up to tinajas and lg. notch.
Terrain
Very flat, cut by only few washes.

Ground Cover Primarily creosote-bursage.

Flow Past (Dates) None Four tanks held water.

Depth (Max) Series of tanks range from approx. 8" to 2½ ft. About 6 in series.
Length av. 2 **Ft.** **Width** 1 **Ft.** **Storage** **gals (est.)**
Above is average for series. One tank approx. 2½ ft.
Brief History Nothing recorded. First recorded by Bill & Marina Hoy and Jim and Jill Wescott on 1/18/71 on Ascent of peak from north canyon.

Present Development and Use

Wildlife Use Heavy sheep use. Possible mule deer and cattle use of water in lower tanks. Much sheep droppings and browsing up high.

Remarks & Recommendations

1. **Development & Maintenance** Cement collars on tanks might be considered to capitalize on isolated sheep habitat.

2. **Protection & Interpretation** Refer to general public with caution since tanks are a fine hike from primitive road and could become a major trip from Growler Wash in future years, putting a strain on fragile sheep habitat.

Observer-compiler Bill Hoy

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Kino Tinajas 6 tanks, depth 8" to 2½ ft. Kino Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
1/18/71	Bill Hoy	3 of about 6 tinajas had 4-5 " water	Water amt. generally reliable since last rain--about .25 in Dec. Other tanks would hold consideable water after rains. Some "sand tanks" would hold water if dug. Considerable sheep scat in upper part of tanks.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tinaja Pinkley (or "Government Tank")

Quadrangle Luke-ville **T.** 17S **R.** 6W **Elevation** 2040 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive on Puerto Blanco Dr. to or just before stake no. 4. Walk northwest toward Pinkley Peak & follow drainage into lg. bowl on SE side of pk.. Tinaja is easily seen a short distance into bowl in main wash.
Terrain: Rolling plains up to foothills ehere steep, usually clean rocks begin. Two smaller "tinjitas" are seen just above main tank. Steep terrain.
Ground Cover: Mesquite along arroyos; creosote, bursage & cholla dominate the flats.
Flow: Past (date) None **Present** None

Depth 26" **Length** 18.5' **Width** 11' **Storage** ____ **gals. (estimated)**

Brief History: Rangers Strange, Wendt and Hinson put a cement ~~a cement~~ collar on the lower end to increase the capacity for wildlife use. Inscribed in the concrete:"Tinaja Pinkley, 1962, NPS."

Present Development and Human Use: Heavy cow sign and trail indicate cattle use.

Wildlife Use: No sign noted, but is probably frequented by miscl. wildlife.

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Tank could be periodically checked for wildlife, particularily, bighorn.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/18/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source TINAJA PINKLEY (or "Govt. Tank") depth 26"
Kino Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions; wildlife use)
7/18/68	Hoy-Weber	1 ft.	Water found 13 days after last rainfall or .68"
12/29/68	Abby	Full	0.92" on 12/26
01/03/70	Abbey	About 2"	Dry winter, with light rain on New Year's Day
01/21/70	Abbey	Dry	
04/13/71	Inman/Hoy	Dry	Dry winter, no animal sign but strong scent of bighorn everywhere. Burro and cattle sign at lower elevations.

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : Resource Management Specialist and Water Source Book

DATE: July 22, 1976

FROM : Park Technician

SUBJECT: Pinkley Tinaja

On 7-22-76 a field check was made of the Pinkely Peak area. The tinaja located in the East, West running canyon at the south, east base of the peak was found to be dry and filled with sand. This tinaja is generally known as Pinkley Tinaja. In the past it was believed to be an important water source for Big Horn Sheep and deer. Monument records show that it has been dug out several times. At present the tinaja is filled with sand, and it appears that very few animals have tryed to dig it out.

Apparently the wildlife is finding water somewhere else, I checked several other canyons around the peak and found evidence of digging in smaller pot holes on the northwest side, many of the canyons contain small pot holes on tinajas that apparently hold water for short periods.

While making my reconnaisence of the area I observed a great deal of Big Horn Sheep and Burro droppings. Fresh Burro dropping were observed adjacent to Pinkley Tinaja, and large numbers of older droppings were seen around the north, west base of the peak.

E. H. Mayer

E. H. MAYER
PARK TECHNICIAN

5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Dripping Springs

Quadrangle Kino Peak **T.** 16S **R.** 6W **Elevation** 2,080 **ft. Map Scale** 1:62500

Photos yes **Sketch** no **Recorded on Map** yes

Access Route: 13 mi. west of Visitor Center on Puerto Blanco Drive.

Terrain: Located at north end (foothills) of high-angle, volcanic Puerto Blanco Mts.
Ground Cover: Good cover of large plant life.

Flow: Past (date) 30 gal/day (est) **Present** _____

Depth 4' 10" **Length** 10' **Width** 7' 3" **Storage** _____ **gals. (estimated)**

Brief History: Bedrock mortars & smoked overhangs indicate Indian use. Was a major water stop during early travel From Sonoyta-Santo Domingo, etc. to Ajo. Common route passed by sm. tuff saddle SE of spring (probably the source of the name Puerto Blanco). Route also used by prohibition bootleggers. Rancher Bill Miller dug well at present parking area in ± 1913.
Present Development and Human Use: A major point of interest on Puerto Blanco Drive. Parking lot and trail leading to springs and ridge (saddle) above are maintained.

Wildlife Use: Moderate to heavy use by desert bighorn, deer, and during summer months white-wing doves are abundant.

Remarks & Recommendations:

1. **Development and Maintenance** Trail to ridge is narrow and rocky; needs to be watched and cleaned of rocks periodically. Since this is a major visitor use area, the Springs need to be further researched for interpretive (largely historical) purposes. Consideration might be given to removing all or part of spur road and creating a foot-trail in its place. Parking lot and picnic area removed, date 1972 approximately.

2. **Protection and Use** A permanent (but removable)blind should be constructed and left in place during the hot months for NPS wildlife counts and as an off-season visitor use activity for wildlife photographers.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/12/68



SUBJECT _____

DATE _____

PURPOSE _____

CAMERA FACING _____

PHOTOGRAPHER

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Dripping Springs Well

Quadrangle Kino Peak **T.** 16S **R.** 6W **Elevation** 2080 **ft. Map Scale** 1:62500

Photos no **Sketch** no **Recorded on Map** yes

Access Route: Located beneath parking lot at Dripping Spgs.

Terrain: In valley leading to Dripping Spgs.

Ground Cover: Variety of palo verde, cactus, considerable grass.

Flow: Past (date) Filled, to water-1917. **Present** None

Depth 54' 28'/**Length** **Width** **Storage** gals. **(estimated)**

Brief History: Bill & Birdie Miller arrived in area & dug 1st well at place now occupied by parking lot. Hired dug by Papago Indian; 80' deep. Indian dug until afraid of danger-- dry. In 1917 Bryan found well 54' deep & 28' to water. Pipe led from Spring to sm. pool ; later a trough. Covered up by Art Quinn to built parking lot. In 1913.

Present Development and Human Use: None.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/20/68

See Lang 5/24

ORPI 7-68

WATER SOURCE REPORT

(Western Soapberry Tree) [Sapindus Drummondii]

Name of Water Source: Cherioni Well

Quadrangle Kino Peak **T.** 15S **R.** 6W **Elevation** 1500 ft. **Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From sharp curve .7 mi east of Dripping Spgs. drive north on old rd. to Cherioni Wash if possible. Then walk or drive northwest 2½ mi. to jacal on arroyo edge. Wells short distance southwest of jacal near C. Wash.

Terrain: Flat; cut by occasional arroyos running into Cherioni Wash.

Ground Cover: Creosote-bursage; mesquite & holacantha (jerusalem thorn) along arroyos. A lg. cherioni (Soapberry) tree formerly grew nearby; may have died.

Flow: **Past (date)** _____ **Present** _____

Depth 72' / 72' to water. **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

/drilled

Brief History: Old well drilled by Rube Daniels; had few shacks. Dug well by Cameron & Elmer Montgomery in early 30's. Intended to tie Bates & Wall's Well with Cherioni for cattle. Only occupied for few years. Bob Montgomery lived with uncle there. Had mesquite-ocotillo house & well. Roads from Dowling to Bates, Cherioni & Ajo. Cherioni means "whip." or Soapberry?

Present Development and Human Use: No use. Consists of ruined jacal w/ fire place, 2 nearby wells, cement trough, muck bucket & wagon wheels.

Wildlife Use: None.

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** . Recommended as secondary historic site (see Historic sites and structures survey report.) Muck bucket & wagon wheels should be brought in for preservation. Probably not a good visitor use area.

Observer-Compiler _____ **Title** _____ **Date** _____

WATER SOURCE HANDBOOK

Name of Water Daniel(1)s Well, that old well (dug)

Quadrangle	T.	R.	Elevation	ft.
Kino Peak	14	7W	1350	

Access Route
Drive or walk old road ± 300 yards southwest of Bates to far side of Growler Wash. Located in section 35

Terrain

Ground Cover

Flow (Dates)

Depth (Max.) ft.	Length ft.	Width ft.	Storage Gals. (est)
38'/40'to water	4'	4'	

Brief History
Dug by (probably) Ruben Daniels in 1912. Destroyed by a flood in the Growler Wash in 1951. Has not been used since flood, although in 1953 Henry tried to redrill the well, but failed due to collapse of the well. Had windmill & concrete trough, 2x4x40'

Present Development and Use
I believe these are the tanks Henry has a pipe running to from his windmill ¼ mile north. 04/08/71

Wildlife Use
Birds/mammals of all sorts and reptiles.

Remarks and Recommendations

1. Development and Maintenance
   The remains of tank were repaired by Henry Gray. Tank has been water proofed and pupfish placed in it. 1978

2. Protection and Interpretation
   Keep water in tank for pupfish and feral live stock

4/69

Observer - Compiler Max Logan Title VIP Date 04/25/78

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: (Daniel's Well) (Cherioni Well)

Quadrangle Kino Peak **T.** 15S **R.** 6W **Elevation** 1500 **ft. Map Scale** 1:62500

Photos _____ **Sketch** _____ **Recorded on Map** Yes

Access Route: See Cherioni Well; Daniel's Well (dug) located only several yards from from later Cherioni (drilled) Well.

Terrain: Flat, cut by occasional arroyos running into Cherioni Wash.

Ground Cover: Creosote, bursage, mesquite & holacantha along arroyos.

Flow: Past (date) _____ **Present** _____

Depth 75'/ 67' to water-1912 **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Well evidently dug by Rube Daniels, possibly for his cattle while living at Bates Well. Little is known of the digging. The site is known as Cherioni Well today after the subsequent well drilled in the 30's by Elmer Montgomery. (see Sherioni)

Present Development and Human Use: A muck bucket lies above the well and wagon wheels are located nearby. The wheels belong to the Cameron family, but could probably be taken to this area with the buck for historical use.

Wildlife Use: Occasional antelope jackrabbits seen in this area.

Remarks & Recommendations:

1. **Development and Maintenance** See Present Development.

2. **Protection and Use** See Cherioni Well.

Observer-Compiler _____ **Title** _____ **Date** _____

WATER SOURCE HANDBOOK

Name of Water Bonita Well

Quadrangle Kino Peak **T.** 16 S **R.** 7 W **Elevation** 1355 **ft.**

Access Route Reached via Puerto Blanco Drive between Dripping Springs and Quitobaquito. Well is on right side of road.

Terrain Flat, slightly rolling.

Ground Cover Good growth of miscellaneous plant life, including several tree varieties.

Flow (Datos) 20,000 per day

Depth (Max.) 37 **ft.** **Length** **ft.** **Width** **ft.** **Storage** **Gals. (est)**

Brief History Dug by Al Jenkins with R. Montgomery as helper contracted by H. Gray (?) 1937

Present Development and Use

Wildlife Use

Remarks and Recommendations

1. **Development and Maintenance** Photo in Hazardous Mine & Well Book, This is one of the water resources ear marked to be retained as mentioned in approved (1977) Resource Management Plan - will be maintained at least untill water study is completed to determine which shall be retained permanently.
2. **Protection and Interpretation**

4/69

Observer - Compiler Max Logan Title V.I.P. Date 4/04/78



#1 WATER SOURCE HANDBOOK

Name of Water BATES WELL (main well according to Henry) west of house section 35

Quadrangle Kino Peak **T.** 14 S **R.** 7 W **Elevation** 1360 **ft.**

Access Route From Cipriano Junction on Puerto Blanco Drive, drive north on fair road to Henry Gray's Ranch (1968) & Bates Well or: drive from just south of Ajo SW on Darby Well road to Ranch.

Terrain Flat; on banks of lg. Growler Wash. Located between Growler Mts. to the north and Bates Mts. to the south.

Ground Cover Over-grazed. Mostly creosote-bursage community.

Flow (Dates) 20,000 gals/day.

Depth (Max.)200**ft.** **Length** 8 **ft.** **Width** **ft.** **Storage** **Gals. (est)**

Brief History Henry Gray dug this well without permit July 21, 1953

Present Development and Use Windmill and well used for domestic water to supply stock tank west of house.

Wildlife Use Birds - reptiles - mammals

Remarks and Recommendations

1. **Development and Maintenance** This is one of the water resources ear marked to be retained as mentioned in approved (1977) Resource Management Plan - will be maintained at least until water study is completed to determine which shall be retained permanently. Photo page 56-58 Hazardous Mine & Well Book, updated March 1978.
2. **Protection and Interpretation**

4/69

Observer - Compiler Max Logan **Title** V.I.P. **Date** 4/25/78

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Headquarters Wells

Quadrangle Kino Peak **T.** 15S **R.** 5W **Elevation** 1800 **ft. Map Scale** 1:62500

Photos No **Sketch** No **Recorded on Map** No

Access Route: On hwy 85 short distance below boundary. Located on either side of road.

Terrain: Flat.

Ground Cover: Miscl.

Flow: Past (date) Dry **Present** Dry

Depth 490' **Length** ____ **Width** ____ **Storage** Dry **gals. (estimated)**

Brief History: Two wells drilled by Wm. Supernaugh cir. 1939-40. Both dry. Also built one-room house on left side of road--since moved to old residence area & burned for practive building fire in 1964.

Present Development and Human Use: None

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 8/3/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Armenta Wells (2) (Abraham Armenta Property)

Quadrangle Kino Peak **T.** 14S **R.** 6W **Elevation** 1600 ft. **Map Scale** 1:62500

Photos _____ **Sketch** No **Recorded on Map** Yes

Access Route: 1 2/3 mi. below north boundary on Hwy. 85 turn west & drive ± 5 mi. northwest to abandoned Armenta Ranch.

Terrain: Flat.

Ground Cover: Mesquite in ranch depression. Little vegetation.

Flow: Past (date) _____ **Present** both dry (3/5/71) trpd

well South 3/4 mi. s. of ranch.

Depth 229'/ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

/ ± 40' deep near house, dry.

Brief History: Settled & lived on by A. Armenta & his family from 1930 to 1935. Property included 320 acres. Armenta turned down NPS offer of 1200.00 for property in 8/55. Sold to Jonathon Investments, Inc. in 1959. who sold to Leo Rich of Tucson who hopes to trade property for other government property. Deep well dug in 1935. 7-15- Acquired by NPS 12/70.

Present Development and Human Use: No current use. Buildings are in dilapidated condition and of little use.

Wildlife Use: None. Fair birding in mesquites around area.

Remarks & Recommendations:

1. **Development and Maintenance** Concrete slab over well buildings are to be allowed to return to nature.

2. **Protection and Use** Photo 1978 page 4 & 5 in Hazardous Mine & Well Book

Observer-Compiler Max Logan **Title** V.I.P. **Date** 4/25/78

pay list Ariz V.I.P. 4-25-78



4-5-78
ACUÑA WELL
RE-TYPE

ORPI 7/63

PORT

. 7W **Elevation** 1490 **Ft.**

pping Springs junction drive
far as practical. Well sits

rroyos.

erde cover.

ent water flowing at bottom of well. Inaccessible
2/25/71. MJ

4-5-78

M.L.

Present Development and Use None, ACUÑA WELL

PHOTO PAGE ____
H. M & W. Book ?

Wildlife Use None

Remarks & Recommendations

1. **Development & Maintenance** Cov

2. **Protection & Interpretation** C

2. Shaft is lined with R
The rest is unlined

Jan/73 < 33'6" TO Water level
42' TO Bottom of shaft.
8½ ft. of water

WATER SOURCE REPORT

Name of Water source Acuña Well

Quadrangle Kino Peak **T.** 16S **R.** 7W **Elevation** 1490 **Ft.**

Access Route From 5 miles beyond Dripping Springs junction drive primitive mining road towards well as far as practical. Well sits on bench between two arroyos.

Terrain Generally flat, cut by few arroyos.

Ground Cover Typical mesquite-palo verde cover.

Flow Past (Dates) Present water flowing at bottom of well. Inaccessible 2/25/71. MJL

Depth (Max) 8'.5" of water
(Length) of Shaft 43.2 **Ft./** **Width** **ft.** **Storage** **gals. (estimated)**

Brief History Unk. May be the "Hay no mas" well.

Present Development and Use None, few scattered cans, etc. in area.

Wildlife Use None

Remarks & Recommendations

1. **Development & Maintenance** Cover to avoid wildlife falling into well.

2. **Protection & Interpretation** Only of minor historical interest.

1. Shaft is lined with Railroad ties approx. 20' (39"X40")
The rest is unlined

Jan/73 < 33'6" TO Water level
42' TO Bottom of shaft.
8½ ft. of water


(1)
a.

1. Photo taken from "north button" looking south to parked vehicle on North Puerto Blanco drive (a.)

Negative # 20

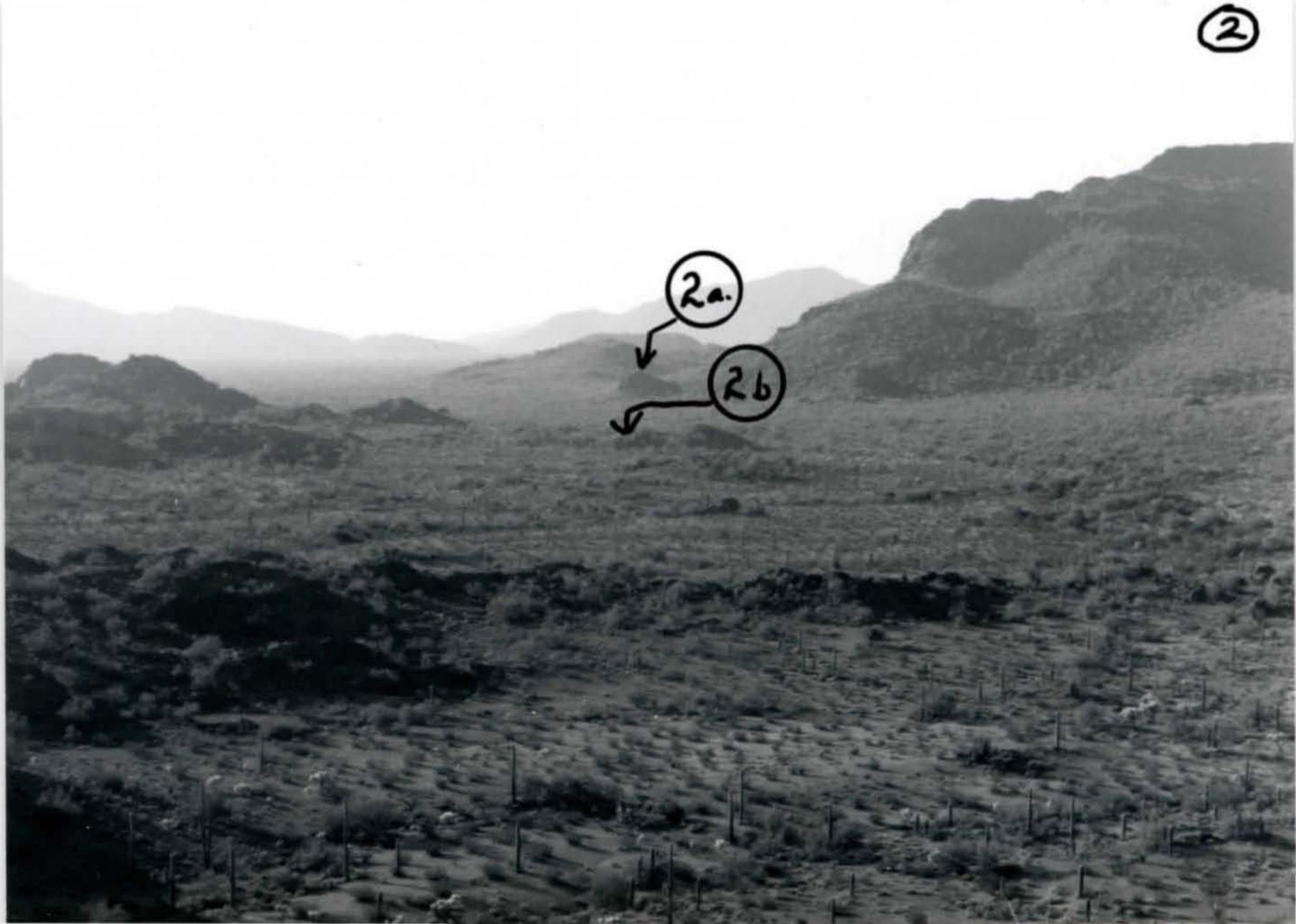

2
2a.
2b

Photo taken from "North Button" looking N77°W towards "the pimple". Bañera tinaja is found in major wash behind the hills indicated by 26.

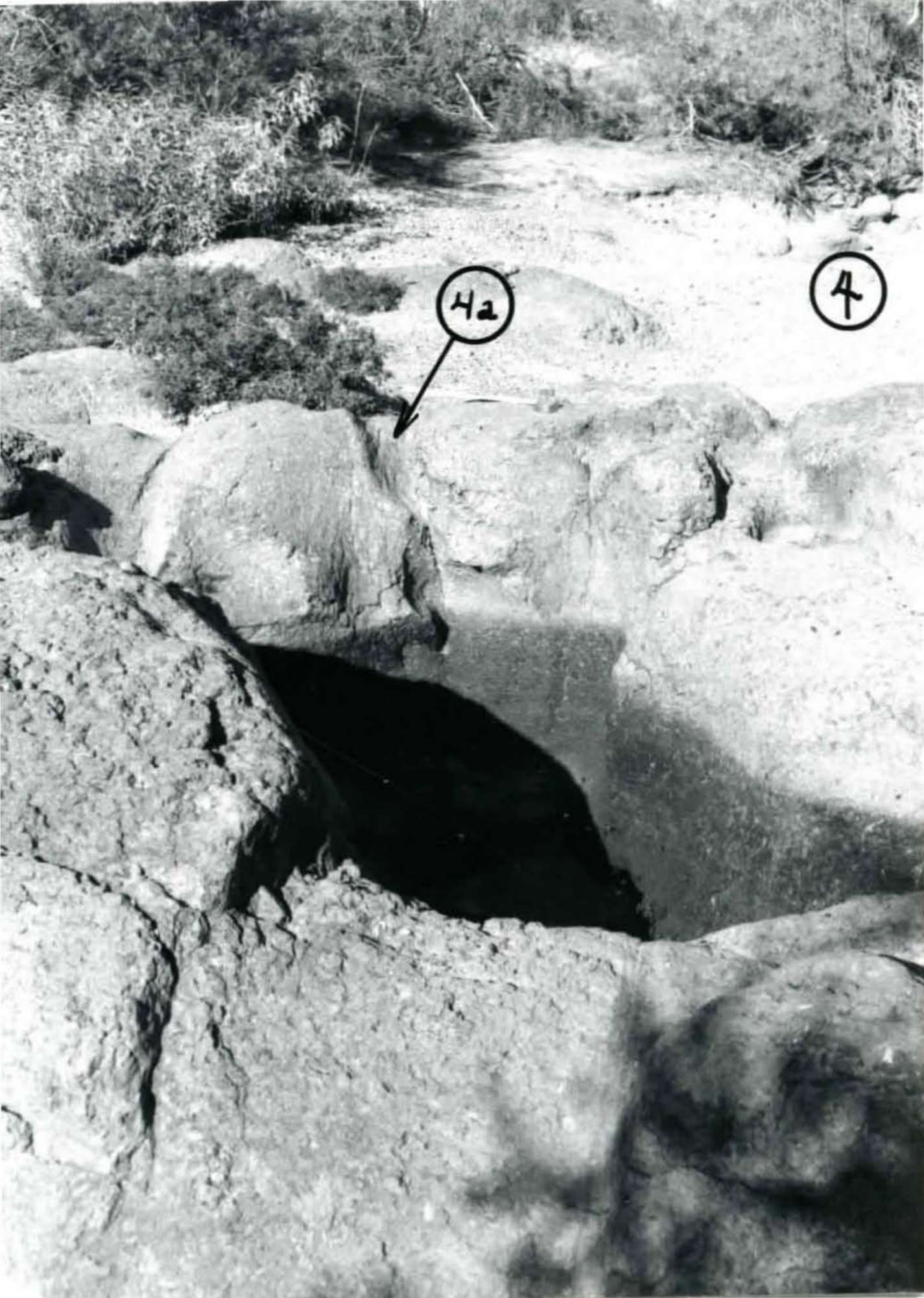
Negative #19

Bañera Ninja



3. Bañera tinaja looking north. Wash direction indicated by arrows.

Negative # 3


4a
4

4. Bañera tinaja depicting cacade (4a.).
Negative #14


5
5a.

5. Bañera tinaja looking south.

Negative #15


6
6a

6. Bañera tinaja in shadow. Note "grinding" holes(?) potholes(?) (6a).

Negative #18

PARK:

NEGATIVE NO. [illegible] 4, 15, 18, 19, 20

SEE CLASSIFICATION NO._____

SUBJECT: Bañera tinaja (possibly Earls tinaja)

LOCATION: T16S, R6W, Sec. 5, SE SW. Legal location is approximate - area is currently unsurveyed.

PURPOSE:

PHOTOGRAPHER AND COMPANIONS: Bill Mikus, Bob Hall

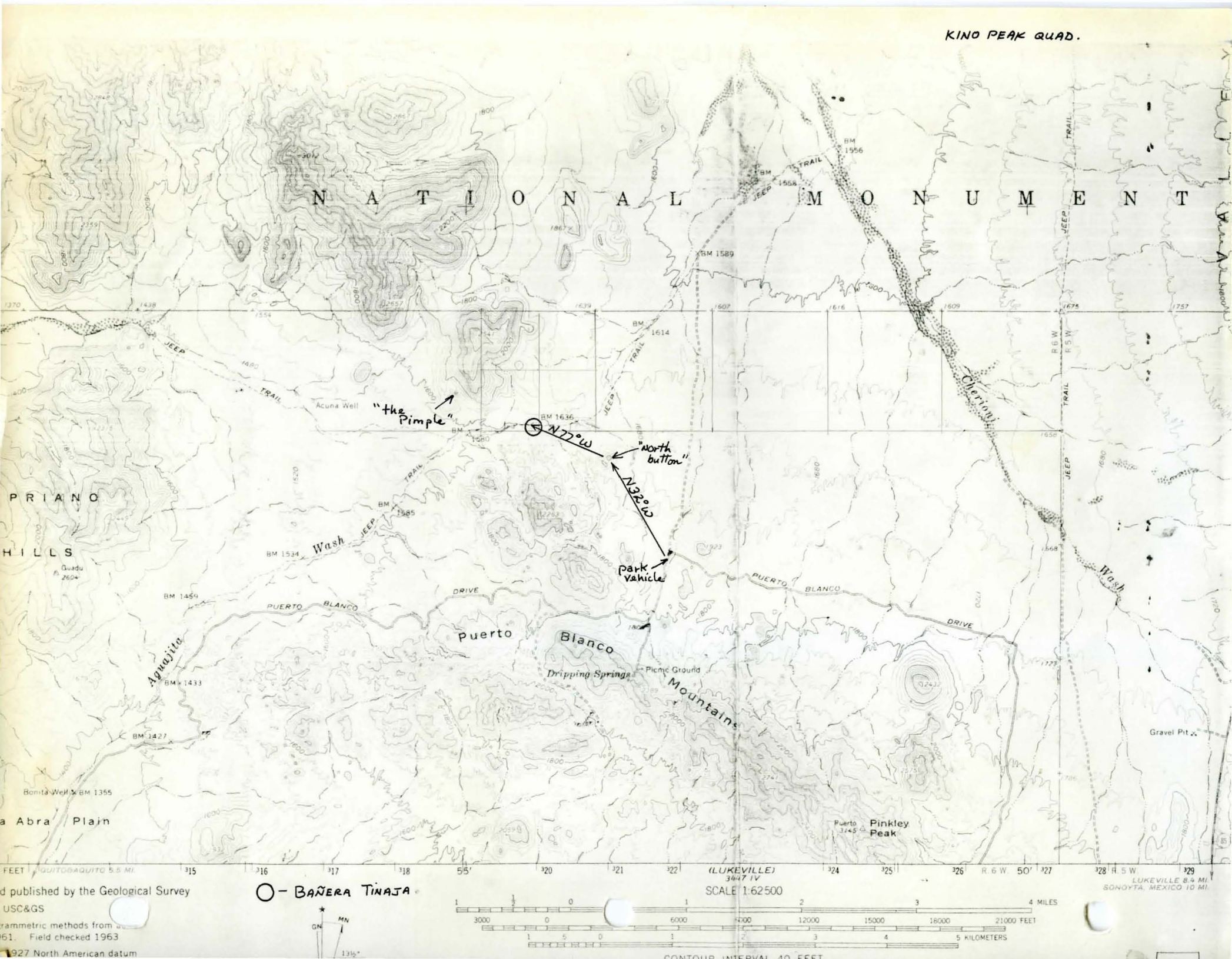
DATE: 1/15/82

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NEGATIVE FILE ENVELOPE

FORM 10-107
(JULY 1961)

KINO PEAK QUAD.



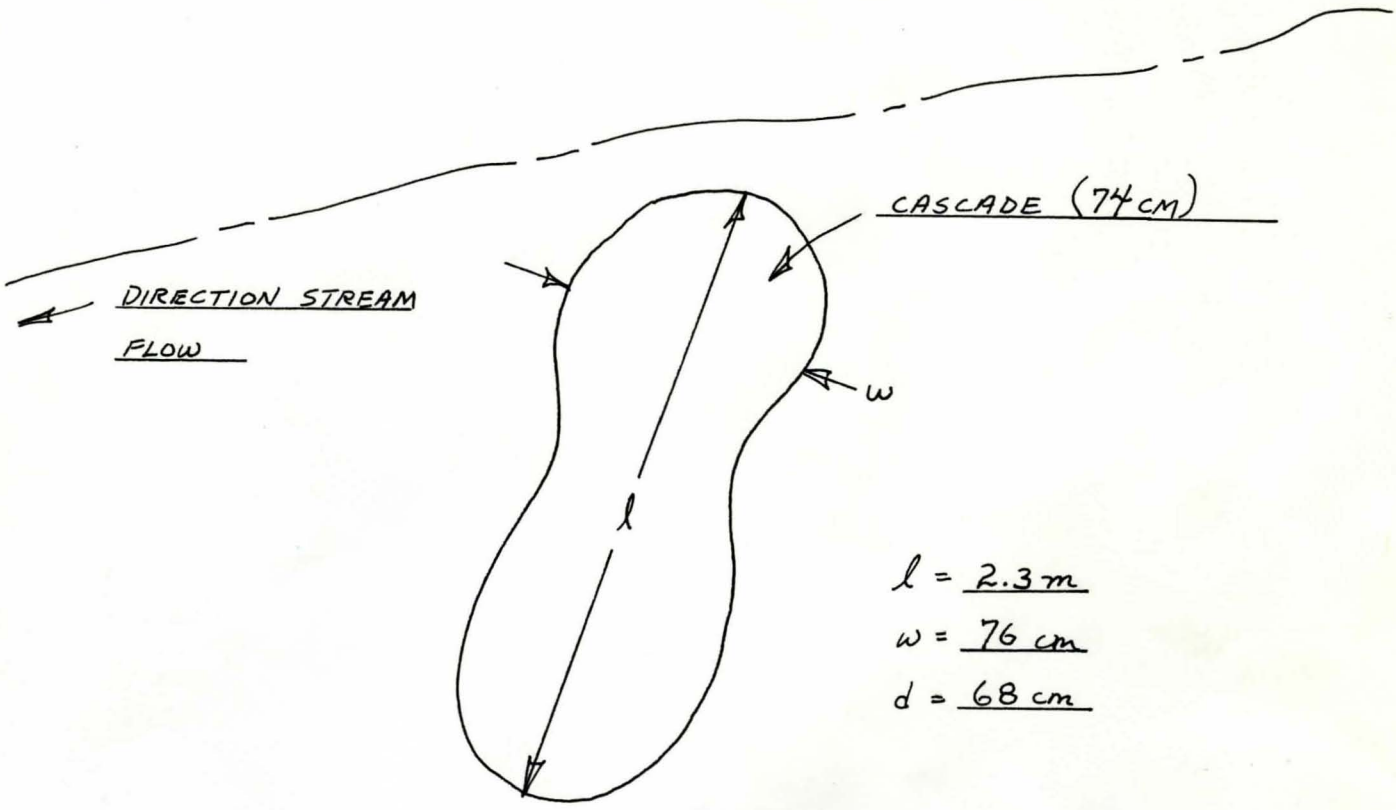
○ – BAÑERA TINAJA

d published by the Geological Survey
USC&GS
rammetric methods from a
961. Field checked 1963
1927 North American datum

BAÑERA TINAJA



TINAJA CENTER LINE
14° MAGNETIC NORTH



l = 2.3 m
w = 76 cm
d = 68 cm

OPTIONAL FORM 24
FEB 1962
GSA Circular No. 529

OUT RECORD (Letter Size)

MT. AJO

May 23rd 1980

Terry

these are some average depths of several timings in bull pasture. in cent. meters

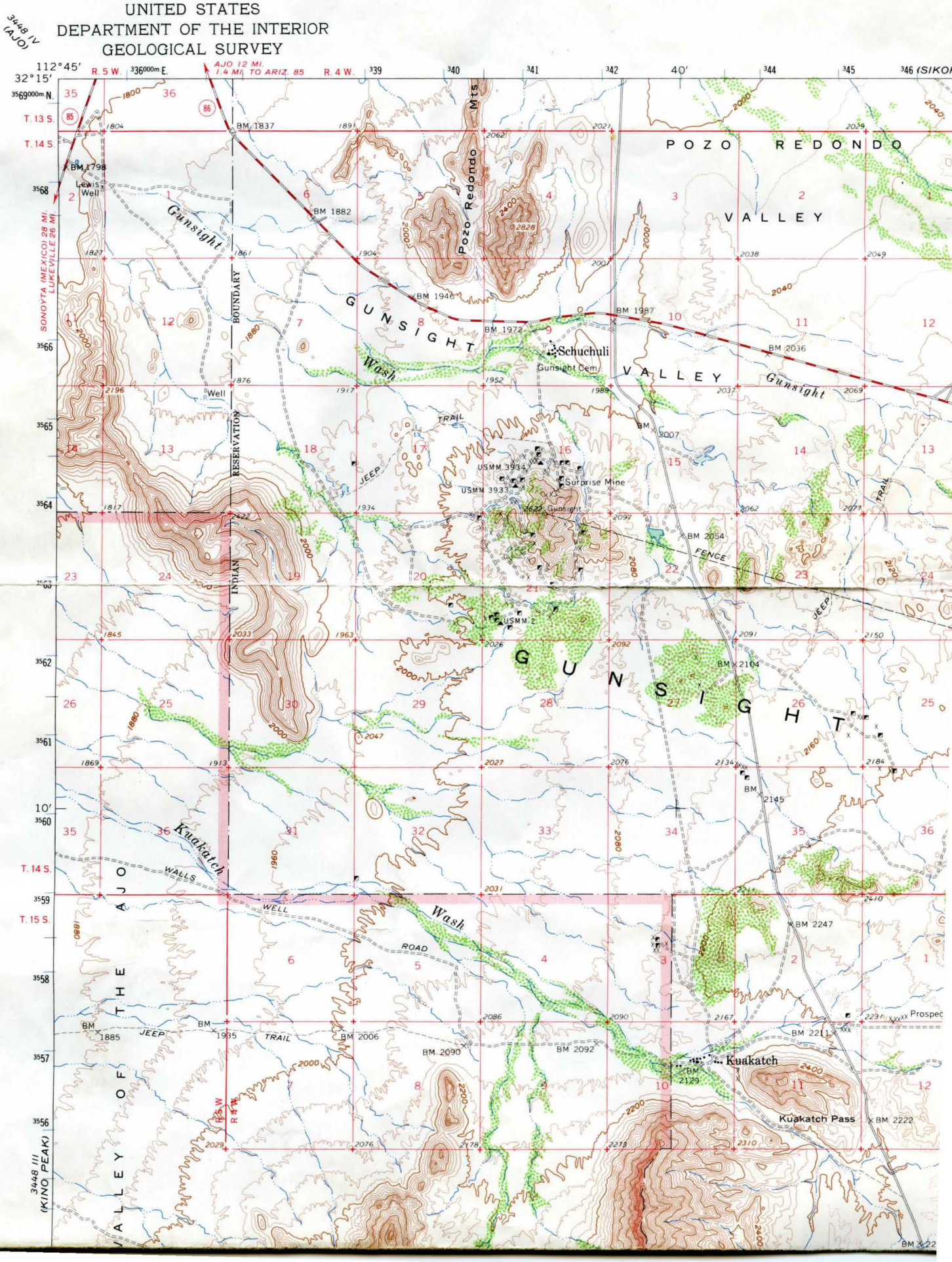
22
7
2
6
10
80

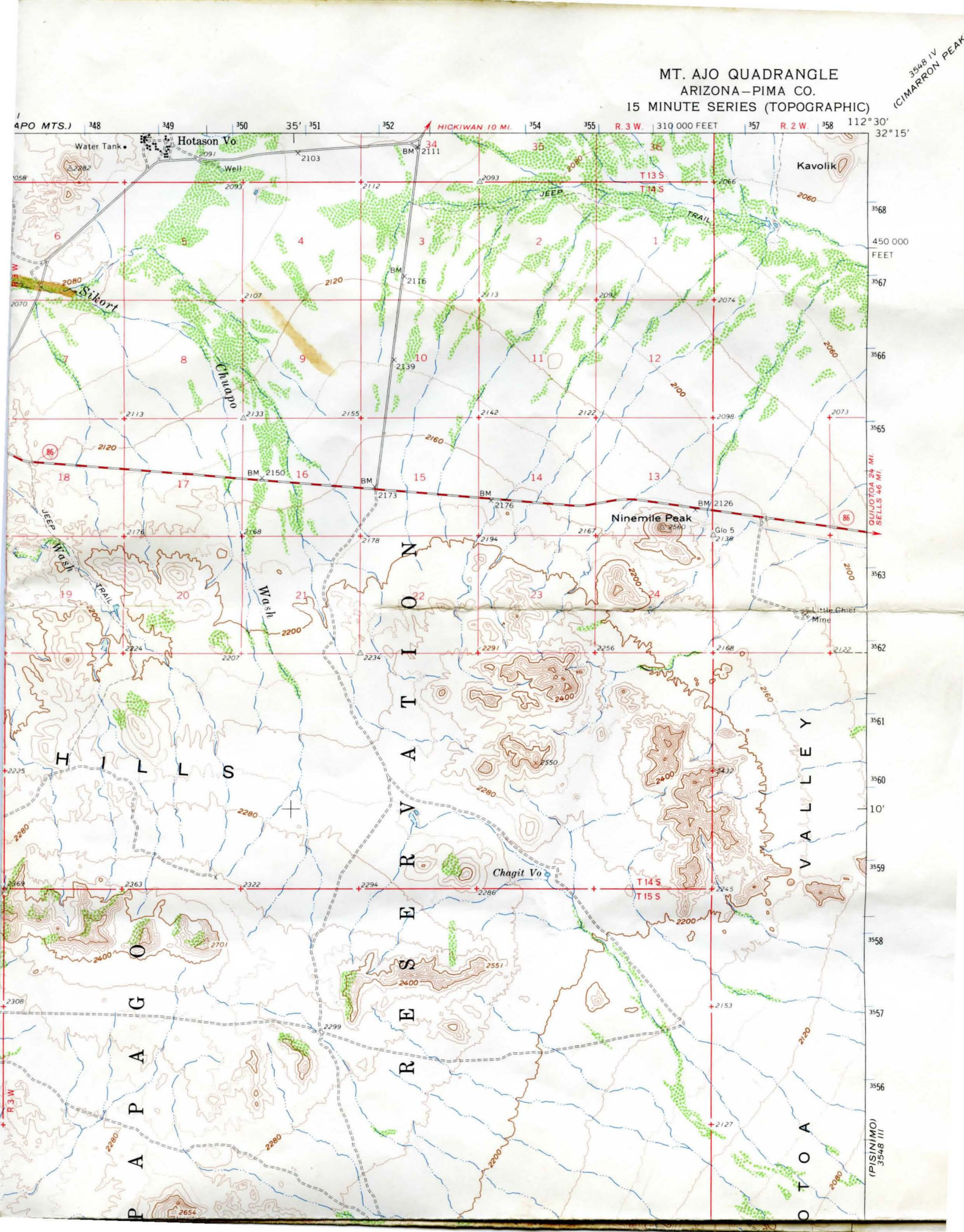
these three appear to be permanent pools the others are more likely the pools that are usually temporary thanks for your help ever

Tinajas: Bull Pasture
Javelina
Wild Horse Tank
Diablo Tank
Snake Pit
Water-fall Tinajas
South Alamo Tinajas

Wells: Estes Well
Alamo Well

MT. AJO


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
3448 IV (AJO)
112°45'
32°15'
AJO 12 MI.
1.4 MI. TO ARIZ. 85
R. 5 W.
R. 4 W.
T. 13 S.
T. 14 S.
T. 15 S.
SONOYTA (MEXICO) 28 MI.
LUKEVILLE 26 MI.
BM 1798
Lewis Well
BM 1837
BM 1882
Gunsight
BOUNDARY
INDIAN RESERVATION
Pozo Redondo Mts
POZO REDONDO VALLEY
BM 1946
BM 1972
BM 1987
GUNSIGHT VALLEY
Schuchuli
Gunsight Cem.
Gunsight
Wash
Well
TRAIL
JEEP
USMM 3934
USMM 3933
Surprise Mine
BM 2007
BM 2036
BM 2054
FENCE
USMM 2
BM 2104
GUNSIGHT
BM 2145
Kuakatch
WALLS
WELL
ROAD
BM 2247
BM 1885
BM 1935
BM 2006
BM 2090
BM 2092
Kuakatch
BM 2129
Kuakatch Pass
BM 2222
Prospect
BM 2211
AJO
VALLEY
OF THE
3448 III (KINO PEAK)


MT. AJO QUADRANGLE
ARIZONA—PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)
3548 IV
(CIMARRON PEAK)
112°30'
32°15'
R. 3 W.
310 000 FEET
R. 2 W.
HICKIWAN 10 MI.
Hotason Vo
Water Tank
Well
Kavolik
JEEP TRAIL
T 13 S
T 14 S
T 15 S
Sikort Chuapo
Ninemile Peak
Glo 5
Little Chief Mine
QUIJOTOA 24 MI.
SELLS 46 MI.
Chagit Vo
Wash
JEEP TRAIL
HILLS
PAPAGO
RESERVATION
VALLEY
QUIJOTOA
450 000 FEET
10'
(PISINIMO)
3548 III



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1963

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Where omitted, land lines have not been established

(LUKEVILLE) 3447 IV

GN MN

0°52' 15 MILS

13½° 240 MILS

UTM GRID AND 1963 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE

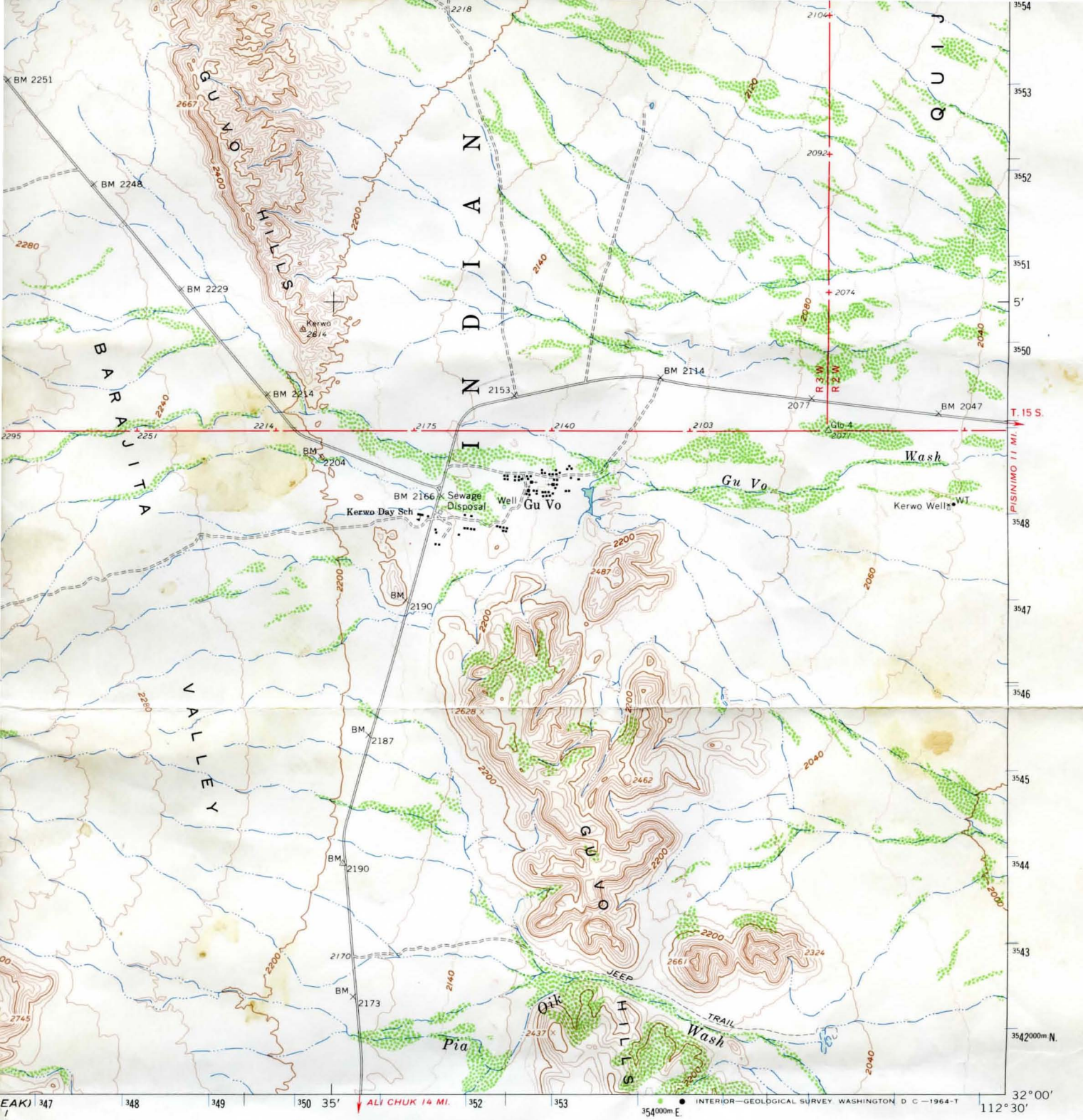
1 ½ 0 1

3000 0 3000 6000

1 5 0 1

CONTOUR INT
DOTTED LINES REPRES
DATUM IS ME

THIS MAP COMPLIES WITH NATI
FOR SALE BY U. S. GEOLOGICAL SURVEY, DEN
A FOLDER DESCRIBING TOPOGRAPHIC MAP



62500

2 3 4 MILES

12000 15000 18000 21000 FEET

3 4 5 KILOMETERS

VAL 40 FEET
T 20-FOOT CONTOURS
SEA LEVEL

AL MAP ACCURACY STANDARDS
ER 25, COLORADO OR WASHINGTON 25, D. C.
AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

ARIZONA

QUADRANGLE LOCATION

MT. AJO, ARIZ.
N3200—W11230/15

1963

AMS 3448 II—SERIES V798

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964-T

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Bull Pasture (Tinajas de los Toros)

Quadrangle Mt. Ajo **T.** 16S **R.** 4W **Elevation** 3200 **ft. Map Scale** 1:62500

Photos _____ **Sketch** No **Recorded on Map** Yes

Access Route: From Estes Canyon Picnic Site walk 1.7 mi. up trail to rim of basin.

Terrain: Basin surrounded by cliffs & Ajo crest to east and steep slopes on other sides. Lg. arroyo containing tinajas in basin.
Ground Cover: Basin contains various cactus, grasses.

Flow: Past (date) variable **Present** variable

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Probably used to winter bulls prior to 1913 by men living at Alamo Canyon named Powell & Hubsteader. Later used for same purpose by Bill & Birdie Miller until early 20's. Artifacts indicate Indian use.

Present Development and Human Use: Trail ends at rim of basin & register. No other development.

Wildlife Use: Big horn, white tail deer, pecarry, birds, etc.

Remarks & Recommendations:

1. **Development and Maintenance** Trail needs periodic maintenance, due to rapid erosion & steep angle. Informative sign & nature trail leaflet in preparation.

2. **Protection and Use** Trail should be kept from the Pasture to protect wildlife. Routes through high walls whould be studied for those climbing Mt. Ajo.
   Often thought to be a spring; if so may be of the ephemeral type, i.e., flowing only after rains.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 8/3/68

U[illegible]ER SOURCE REPORT
[illegible]RIODIC CHECK

Name of Water Source BULL PASTURE Mt. Ajo

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions; wildlife use)
2/2/69	Ed Abbey	All potholes full & running	
1/17/70	Abbey	Upper tinajas with water; Lower tinajas almost dry	
2/12/70	Abbey	About 12" deep in big tinaja(plunge pool)	Light rain (0.21) on 1/10/70
3/27/70	Abbey	Lots of water in all tinajas; water flow-above east plunge pool.	1 1/2 " rain about 2 weels ago
12/20/70	Henderson	Water in most tinajas	No flowing water, no seeps
1/06/71	Cole	Lots of water in pools	No flowing water
5/26/71	Inman	#1 3'x 4', 12" deep #2 5'x 7', 15" deep #3 5'x 6', 18" deep	Only tinaja with water between BP Spring & Estes Cyn. In a rock crevass above & south of Estes Cyn. Only tinaja with water in western drainage Arches rain gauge registers zero since Jan. 1971 Mule deer tracks sign up & down trail. Many white winged doves.
7/30/71	Ken Patrick	3 Tinajas in each drainage contained water approx. 30 gal. largest.	Some light showers in the last 2 wks., very little runoff. All water quite old. Animals have well beaten paths to all water. Saw 1 whitetailed buck dee & many whitewinged dove.
8/30/71	Ken Patrick	Both drainages in the pasture running & all catchments full.	Rain each day for 2 wks. Bull Pasture spring flowing a good stream (12-14" across) and a nice waterfall into Estes Cyn. All the water was very clear & cool.

WATER SOURCE REPORT

Name of Water source Bull Pasture Spring

Quadrangle Mt. Ajo T. 16S R. 4W Elevation 3,160 Ft.

Access Route From Bull Pasture register walk down into the basin bearing left into large east-west drainage containig the spring at the upper end.

Terrain The Bull Pasture basin consists of a large rock bowl below the Ajo crest. It is cut by two parallel north-south drainages and one east-west drainage at the northern section of the basin.

Ground Cover Schotts agave covers much of the basin slopes. Hop bush and miscl. grass are also common. A few scattered junipers, some quite large, grow in the drainages.

Flow (Max) (see reverse)

Length (Max) (see reverse)

Length Ft. Width ft. Storage Gals. (estimated)
(see reverse)

Brief History Sleeping circles, pot sherds & stone points indicate Indian use. Bill "Birde Miller wintered cattle there from cir. 1913 to cir. 1925, hence the source of the name. Villa followers (Villistas) hid in basin in 1917. First NPS trail cut from parking area in early 1950's. Alternate trail (via Estes Canyon) built in 1962. Main trail converted to self-conducted nature trail in March, 1969.

Present Development and Use Trail use to Pasture increasing each year. Since trail stops at rim (register) visitor have made scatterings of "trails" into basin. Trails are steep, inadaquately conceived and seldome maintained.

Wildlife Use Bighorn, whitetail and mule deer and javelina frequent the water holes of the basin.

Remarks & Recommendations

1. Development & Maintenance Trail should be frequently maintained, esp. for loose rocks. Also it should terminate at register to avoid influencing wildlife in basin, although hikers continue to make trails into basin, and to use it as route to the Ajo crest.

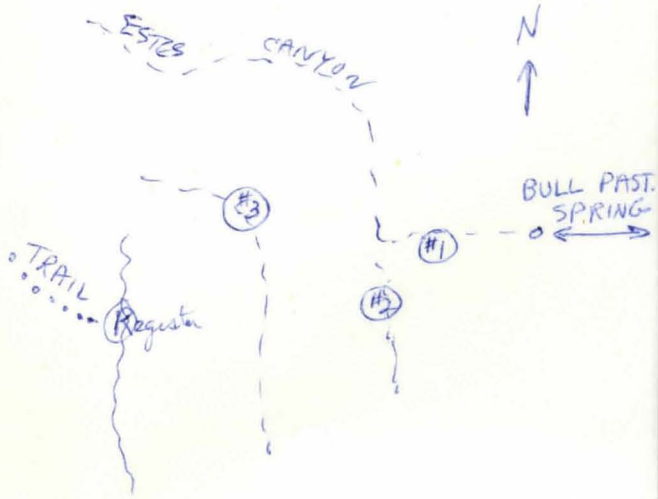
2. Protection & Interpretation See above. Probably, the present policies are the best ones pending a reassessment of the visitor-wildlife use of this area.

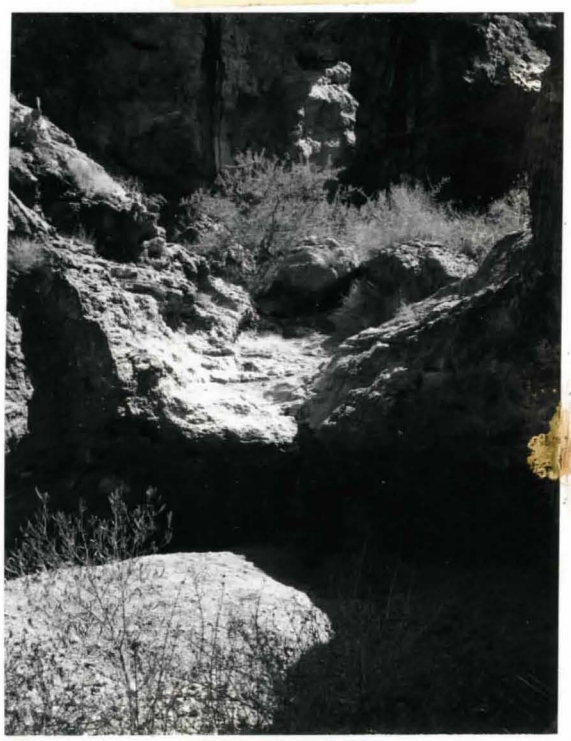
Two drainages cut parallel courses through the Bull Pasture in a south to north direction and are separated by a low rocky ridge. Water may be heard from the register for months after good rains and miscl. pools remain for most of the year. The easternmost drainage terminates in two tinajas measuring: (1) 4' 10" deep, 8' long & 6' wide and (2) 15" deep, 18" long and 6½" wide. this drainage then falls approx. 35' over a fall into a deep basin and thence falls into Estes Canyon.

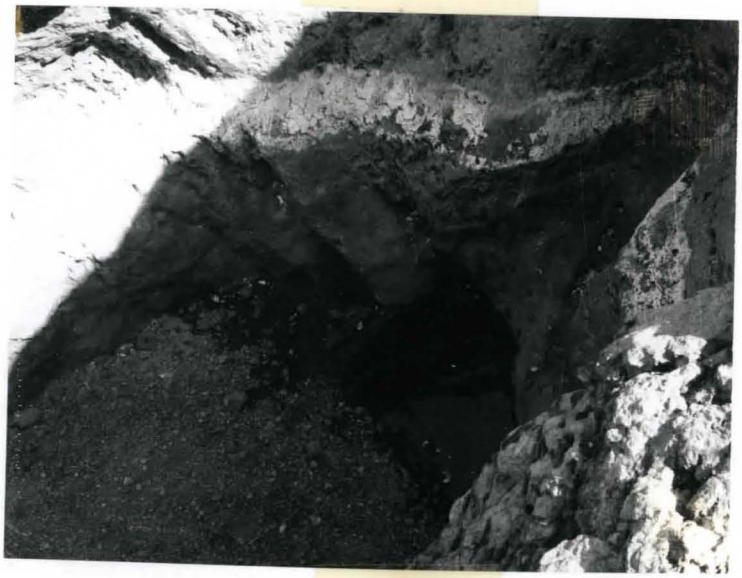
The main spring begins at the eastern end of a deep east-west arroyo and will usually contain pools of water. The largest tinaja is approx. 15' long, 8' wide and 3½' deep and lies at the mouth of the spring arroyo beneath a 15' fall. It also empties into the above-mentioned basin before emptying into Estes Canyon.

BULL PASTURE

mjl





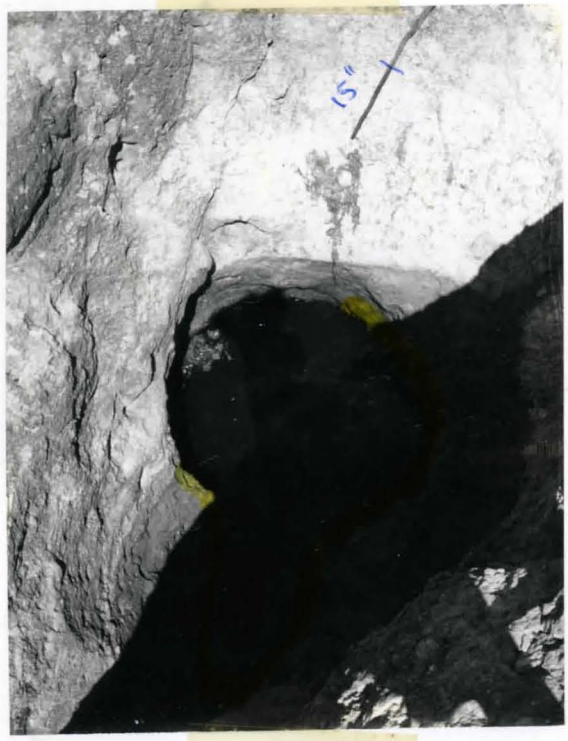


#1 2 views from below

5/26/71 3'x4', 12" deep
Bad drought



from above



#2
5/26/71 5'x7', 15" deep.



#3
5/26/71 5'x6', 18" deep in cave

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : **Files**

DATE: **Oct. 31, 1972**

FROM : **Assistant Chief, I & RM**

SUBJECT: **Bull Pasture Spring**

Throughout the past 2½ years I have been observing the area shown as Bull Pasture Spring in the Ajo Mountains. During this time I have not observed sufficient water flow to call this area a spring. After a period of heavy rains, there is flow in the drainage for as much as a couple of weeks, then some seepage for several weeks more but then it ceases. Water may be found in the potholes of Bull Pasture for the entire season most years but not in the form of any permanent spring.

If future observations support my opinion that no permanent spring exists in Bull Pasture, this should be removed from the topographic map and the water resources handbook should refer to the tinajas but not the spring.

Larry Henderson

5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

ORPI 7/68

WATER SOURCE REPORT

Name of Water source Tinaja Javelina

Quadrangle Mt. Ajo T. 16S R. 4W **Elevation** 2320 **Ft.**

Access Route From Arroyo beneath Wild Horse Tank follow arroyo westerly for about ½ mile. Just beyond bedrock is wash containing several sm. pot-holes the bedrock again forms a short series of "steps" on right side. All within this arroyo. About 50 yds. beyond steps climb knobby high-angle 10 ft. wall to tinaja on lip.
Terrain. Arroyo becomes somewhat steep & narrow; has sandy-rocky floor. Smaller "shelf" arroyo meeting lg. arroyo at right angles is small & rocky. Several smaller tinajas are found above larger one.
Ground Cover Typical arroyo-legume-type brush sparse in arroyo.

Flow Past (Dates)

Depth (Max) 3.5 ft.
Length 9 **Ft.** **Width** 7 **ft.** **Storage** gals. (estimated)

Brief History First reported by seasonal naturalist Goodsell in December, 1968 while following javelinas. Reexamined & measured by Goodsell & Hoy in January, 1969.

Present Development and Use None.

Wildlife Use Probably has minor use, e.g., by javelinas. No sign noted.

Remarks & Recommendations
1. Development & Maintenance None.

2. Protection & Interpretation Could be of minor interest as a hike from Wild Horse Tank if visitor can follow route & climb wall.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Wild Horse Tank (Horse Tanks, Tinajas de los Caballos)

Quadrangle Mt. Ajo **T.** 16S **R.** 5W **Elevation** 2420 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From stake no. 12 on Ajo Mt. Drive drive .1 mile and park. Walk left ± 160 yds. (on stock trail) to wooden fence cutting off part of pool tank. Route to upper pool same distance, but overhang cuts one off from tank.

Terrain: Rolling hills, large arroyo below tank.

Ground Cover: Variable plant life; over grazed, some mesquite in drainages.

Flow: Past (date) _____ **Present** _____

Depth variable **Length** 17 yds **Width** 10 yds **Storage** _____ **gals. (estimated)**

upper tinaja " 15" " 7'10" " 3'

Brief History: Used for cattle watering in 1914-1919 by Lon Blankenship. Since 1919 used by Gray partnership. 3 ft. collar constructed by Henry Gray in the 30's. Under lg. overhang below tank pictoglyphs (if real) indicate Indian usage & barrel staves indicate bootleg activity.

Present Development and Human Use: Continues to be used by Gray cows. Considerable manure litters area. Lg. wooden fence blocking one side is left open. Tinaja immediately above main tank holds water longer, possible due to much gravel in lower tank, cant be reached by cattle.

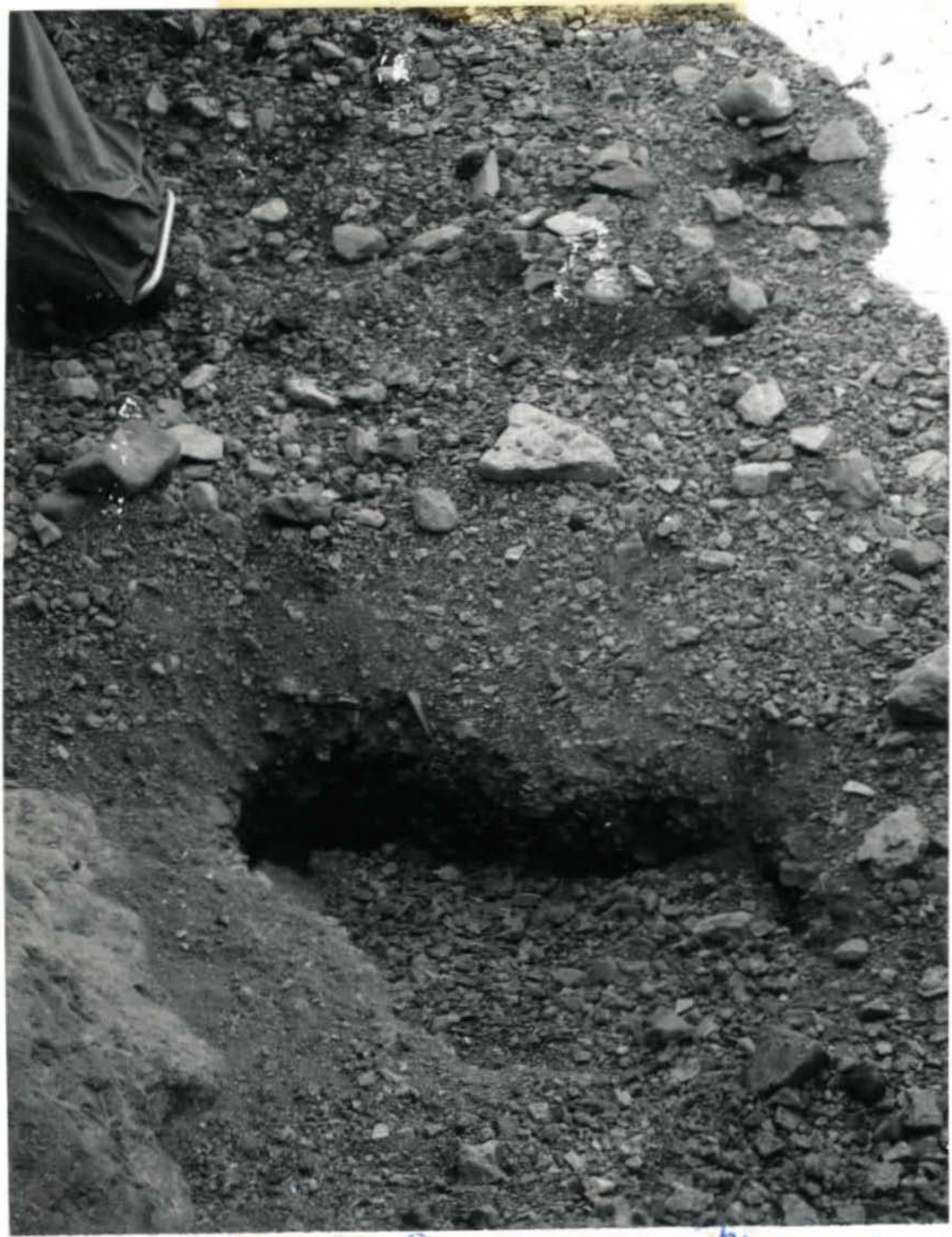
Wildlife Use: Probably used by wide variety of wildlife. After tank dries cattle (?) dig for water into deep gravel.

Remarks & Recommendations:

1. **Development and Maintenance** Upon termination of Gray residence trail might be built to tank & fence reinforced. Deep gravel in lg. tank could be cleaned out. Over-flow neck at upper pool could be cemented to deepen pool or cut down to increase water in lower tank.

2. **Protection and Use** After Grays move from area, tank might make a good example of cattle watering tinaja; may be added to Ajo Mt. Drive leaflet leaflet. Could also be used for wildlife watering & observation. Fence shows how stock was trapped.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/19/68



5/27/71 Duncan Mesa tank

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Diablo Tank

Quadrangle Mt. Ajo **T.** 16S **R.** 4W **Elevation** 2800 ft. **Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: (From Estes Canyon Picnic Site or top of hill east of site, not recommended. 1968) walk southwest up Diablo Mts. around cliffs on summit and carefully select breaks down to tinaja above and below..Tinaja may be entered by carefully (over)

Terrain: The interior of the Diablo Mts. is extremely broken with rock walls presenting frequent route problems. An interesting drainage bisects the Mts.

Ground Cover: Miscl.mesquite, cat claw, palo verde & other legumes. A very large mesquite grows just below the overflow apron.

Flow: Past (date) _____ **Present** _____

Depth top fall 21' lower fall 19' **Length** 24' **Width** 12' **Storage** water depth about 20" gals. (estimated)

Brief History: During prohibition era Jack Ricks had a still under overhang a short distance up slope as drainage makes first bend below tinaja fall. Little evidence left of operation.

Present Development and Human Use: None. Tinaja had filled with sand except for a cresent-shaped pool on one side approx. 1' deep. Early photographs & descriptions indicate tinaja to be several feet deep.

Wildlife Use: Probably none due to high overhanging walls surrounding tinaja. No sign evident. Wildlife probably used the several smaller tinajas scattered in drainage above Diablo tinaja. Dry at observation.

Remarks & Recommendations:

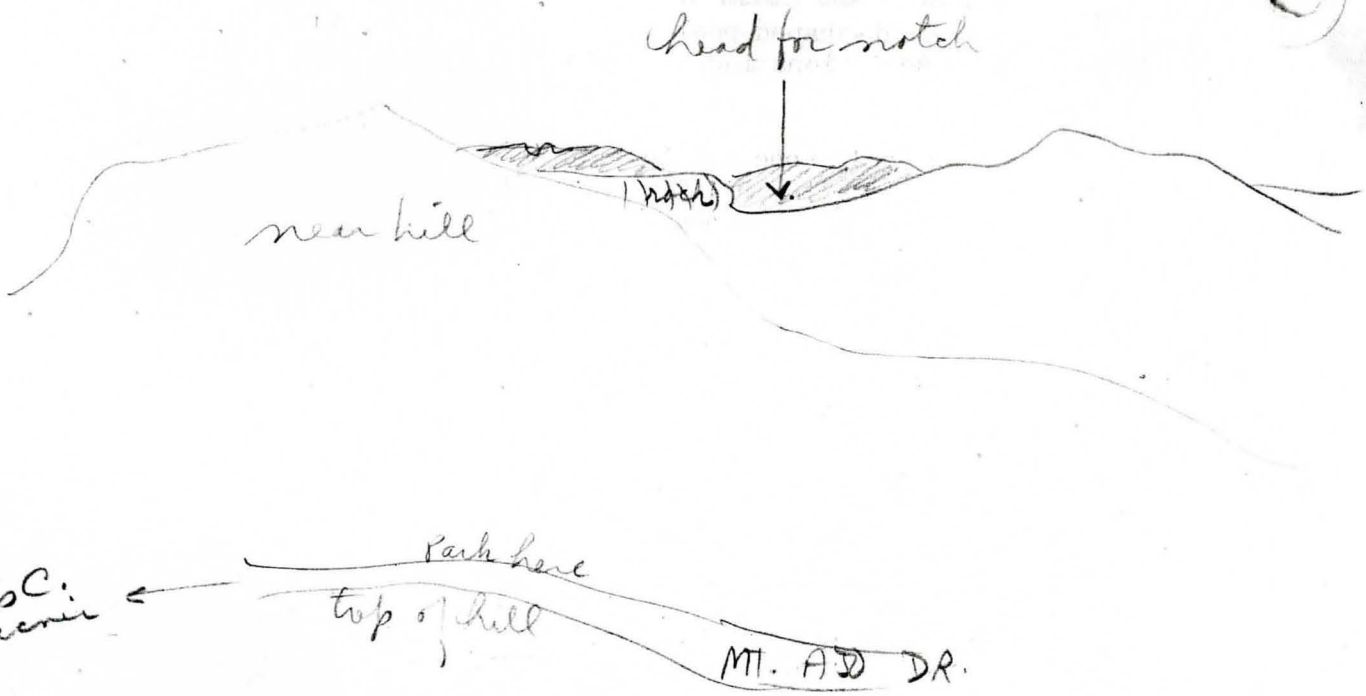
1. **Development and Maintenance** Sand could be dug from tinaja providing diggers could climb into tinaja from below. (Can from above?) This tank, with its perpetual shadow, would hold water longer than the small ones above providing it was deepened.

2. **Protection and Use** Walk to via Canyon Diablo from the western entrance could make an interesting visitor hike as the slick-rock and sand apron below the tank is an extremely picturesque spot, as are the drainages above the tank.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 9/19/68

(Access route, contd.) climbing small-hold wall slightly to right of tinaja overflow and traversing left into tinaja.

Probably the best route to the tinaja is via the Tinaja Diablo Canyon from the west side just beyond (1 mile) Canyon Diablo picnic site. Walk up either the drainage or sides above drainage following drainage to base of tinaja and end of route until route is continued from sand apron below tank up a break in the wash and back up drainage above tank into the great bowl of the Diablos that possibly contain other tinajas higher on the walls.



ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Diablo Tanks (Diablo Tanks

Quadrangle Mt. Ajo **T.** 16S **R.** 4W **Elevation** 2500 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route:

Terrain:

Ground Cover:

Flow: Past (date) _____ **Present** _____

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: During prohibition era Jack Ricks had a still at head of Diablo Canyon and used overflow from tinaja into canyon for water.

Present Development and Human Use: Only dilapidated odds & ends--shoes, cans, barrel staves remain.

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 8/3/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Diablo Tanks (Diablo Tanks

Quadrangle Mt. Ajo **T.** 16S **R.** R4W **Elevation** 2500 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route:

Terrain:

Ground Cover:

Flow: Past (date) _____ **Present** _____

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: During prohibition era Jack Ricks had a still at head of Diablo Canyon and used overflow from tinaja into canyon for water.

Present Development and Human Use: Only dilapidated odds & ends--shoes, cans, barrel staves remain.

Wildlife Use:

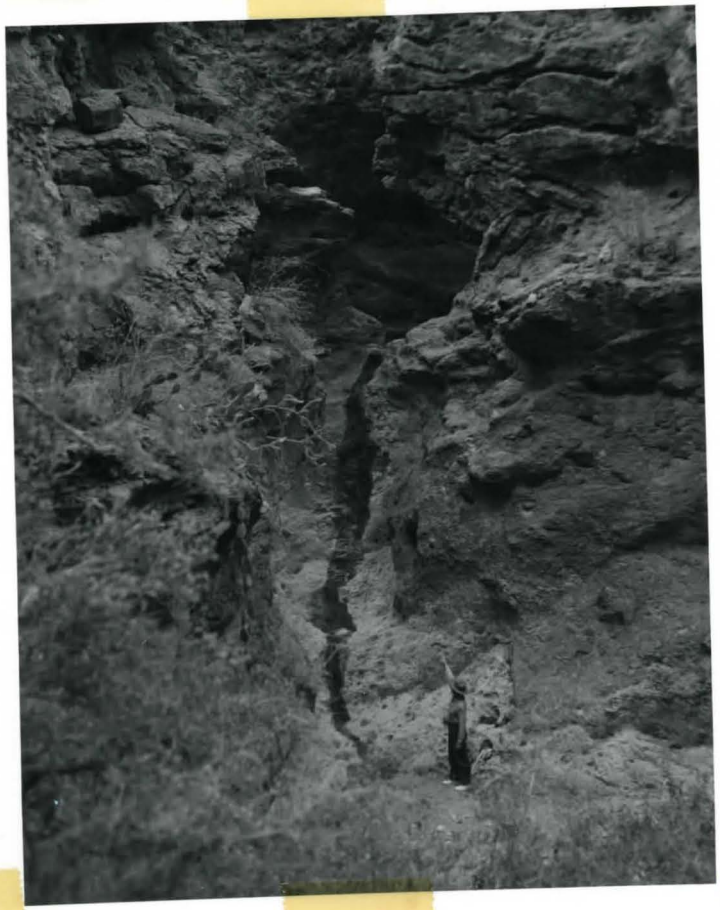
Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 8/3/68

Diablo Tanks





ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: The Snake Pit

Quadrangle Mt. Ajo **T.** 15S **R.** 4W **Elevation** 2800 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive to Alamo Canyon, walk north via scrambles up rocky bottom or walk on higher ground. Turn up the 2nd lg. canyon & walk ± ½ mi past several pools. Tinaja lies on slick rock on right side under lg. juniper tree.

Terrain: Mountainous, somewhat steep sides, rocky bottom containing occasional to many pools depending on rainfall. Canyon is enjoyable & attractive.

Ground Cover: Mesquite, grasses, in upper reaches seep willow, & few junipers.

Flow: Past (date) None **Present** None

Depth 3'2½" **Length** 8½" **Width** 4' **Storage** ____ **gals. (estimated)**

Brief History: Probably none

Present Development and Human Use: No development; main use has been a source of reptiles that become trapped in this steep-sided tinaja when they go in for water, hence the name "Snake Pit" given by herpertologists. Shade from juniper may lessen evaporation.

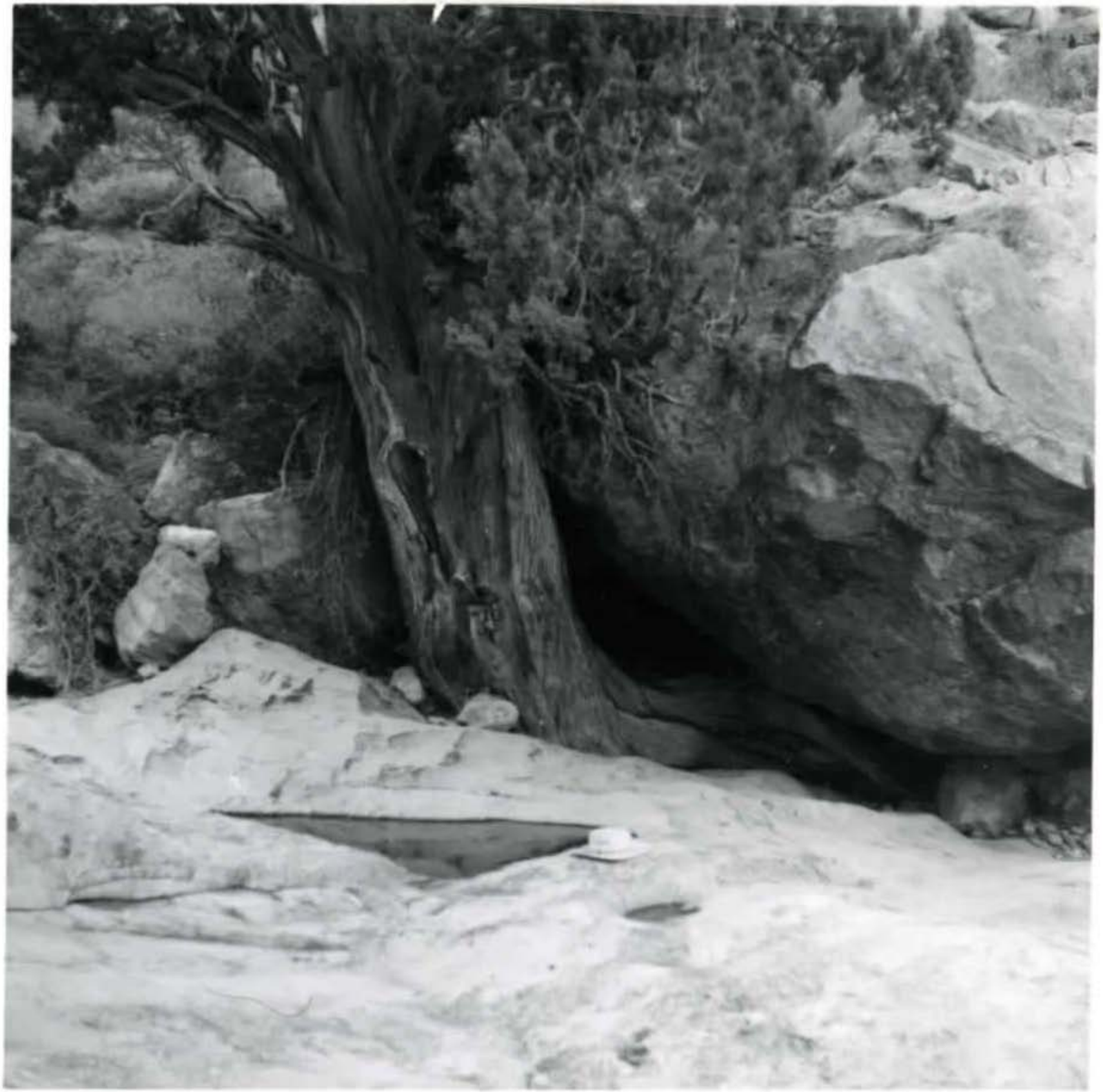
Wildlife Use: Proba bly used as far down as animals can reach in steep sides. May also fall in & become trapped.

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Shoud be located & recorded for future reference due to being a good reptile point & scenic area.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/25/68



ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Snake Pit depth 3'2½" (38½") Int. Ajo

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
7/25/68	Hoy	Full tinaja	Observation after 1.20" rain on 7/21/22/23 at Hqtrs. Many tinajas with water, some full, along canyon.
11/9/68	J Carrico	Approx 12 "	Rain of .36" measured at the Arch on 10/3/68. Small tinaja down stream (with cattails) had water as well as the larger. One tank about ¼mile upstream from Alamo Well had wet spot. Sheep sign noted in N.Alamo as well as trail from ridge to the east that had been used by sheep to get to tanks.
2-5-69	ABBEY	3' DEEP	~~TRACE~~ .01" of RAIN AT U.C. 1/20. .06 on 1/18: .89 on 1/14-15
4-15-69 4-18-69	ABBEY CABLE	APPROX 4' DEEP " 4-5" FROM TOP	RAIN IN AREA ON 4-10-69
6-3-71	Inman	dry	Bad drought - ~~1.05~~ rain since Jan. Much cattle sign

WATER SOURCE HANDBOOK

Name of Water Water-fall Tinajas

Quadrangle Mt. Ajo **T.** 16-S **R.** 4-W **Elevation** 2600 **ft.**

Access Route Stay in the bottom of the south fork of Alamo Canyon. Tinajas about one mile from Jack Gray's hours just above water-falls.

Terrain Mountain

Ground Cover Much Ajo Oak

Flow (Datos)

Depth (Max.) 3 **ft.** **Length** 7.5 **ft.** **Width** 3.5 **ft.** **Storage** 40 **Gals.** (est)

Brief History

Present Development and Use Water levels on 4-28-69
Size of tinajas #1 depth 18 inches, length 8 ft., width 8 ft.
#2 depth 36 inches, length 7.5 ft., width 3.5 ft.

Wildlife Use Cat sign found and print of Mt. lion in cave 6/3/71

Remarks and Recommendations

1. **Development and Maintenance**

2. **Protection and Interpretation**

4/69

Observer - Compiler Max Logan **Title** V.I.P. **Date** 4/25/78



Measures about 15" x 15" x 4" deep
Had to go thru hole in rocks behind
where I stood to get this shot, had
to leave equipment behind, so got
no picture of upper tinaja: 3' x 1 1/2' x 4'
deep.

WATER SOURCE REPORT
PERIODIC CHECK

depth 3'(36")
2'(24") Mt. Ajo

Name of Water Source WATER-FALL TINAJAS

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions; wildlife use)
4/18/69	Cable	Not measured	
4/28/69	Cable Begeman	#1 1 1/2 ft. deep #2 2 1/2 ft. deep	
5/22/69	Cable	#1 empty #2 2 1/4 ft. deep	
6/21/69	Cable	#1 empty #2 1 ft. deep	
2/14/70	Abbey	#1 3 1/2 ft. deep #2 2 ft. deep	Light rain on 2/10/70
6/3/71	Inman	Lower @ 1 gal.(1") Upper 3' x 1 1/2' x 4" deep	- inacessable except to birds. I don't know what has been called #1 & #2. Much cattle sign.

WATER SOURCE HANDBOOK

Name of Water South Alamo Tinajas

Quadrangle Mt. Ajo **T.** 16-S **R.** 4-W **Elevation** 3200 **ft.**

Access Route Stay in the bottom of the south fork of Alamo Canyon to a point just south of hill # 3849 where the canyon splits. Tinajas found in the steep part of canyon just below the split.

Terrain All three tinajas in very steep chute.

Ground Cover

Flow (Dates) slow seep

Depth (Max.) 7+ **ft.** **Length** 22 **ft.** **Width** 10 **ft.** **Storage** 700 **Gals.(est)**

Brief History Indian sites at head of canyon on ridge of Ajos.

Present Development and Use water levels on 4-28-69

Size of tinajas #	1	depth 1 ft.	length	26.5	ft.	width 2-10	ft.
	2	2 ft.		5	ft.	5	ft.
	3	4 ft		22	ft.	0-14	ft.

Wildlife Use

Remarks and Recommendations

1. **Development and Maintenance**

2. **Protection and Interpretation**

4/69

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source South Alamo Tinajas Depth #1 - 12" #2 - 24" #3 - 48" Mt. Aji

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
4-18-69	Cable	water seeping into three holes	Tinajas found---too large for one man to measure
4-28-69	Cable Begeman	water seeping into three holes	All three tinajas were measured and photographed.
5-22-69	Cable	seeping stopped	all three tinajas full
6-21-69	Cable	middle tinaja ½ full bottom tinaja ¼ full	
6-3-71	Inman	all dry	Bad drought. 1.05" Rain since Nov.

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Estes Well

Quadrangle Mt. Ajo **T.** 16S **R.** 4W **Elevation** 2320 **ft. Map Scale** 1:62500

Photos _____ **Sketch** _____ **Recorded on Map** Yes

Access Route: From top of long hill approaching Estes Canyon picnic site drive .1 mile down hill. Here on left side a thin trail leaves from a sm. rock carin near rd. and continues + 300 yds towards the Canyon to another small carin and remains of well on right side.

Terrain: Well site in slightly sloping drainage into Estes Canyon, rocky volcanic cliffs in area.

Ground Cover: Large variety of shrubs, trees & cactus.

Flow: Past (date) Unk. **Present** None

Depth +1 ' **Length** 6' **Width** 6' **Storage** none **gals. (estimated)**

Brief History: Estes was reportedly a govt. scout against Apaches when 1st saw Alamo (?) Canyon. Later returned there. "Old man Estes" & Dalton dug well at mouth of Estes Canyon; apparently it was dry. Men only camped at canyon, lived elsewhere. Birdie Miller says Estes not there in 1914.

Present Development and Human Use: None; well almost filled from floods. Remains of well only faintly visible.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None; location of well could be recorded for minor historical purposes.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/19/68

4-6-78

OLD MO WELL

42' DEEP

1919 —

MILLER LATER SOLD

WATER RIGHTS TO GRAYS

(NOTE #1)

THIS IS ONE OF THE WATER RESOURCES EAR MARKED TO BE RETAINED AS MENTIONED IN APPROVED (1977) RESOURCE MANAGEMENT PLAN. WILL BE MAINTAINED AT LEAST UNTILL WATER STUDY IS COMPLETED TO DETERMINE WHICH SHALL BE RETAINED PERMENTLY

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Alamo Well

Quadrangle Mt. Ajo **T.** 16S **R.** 4W **Elevation** 2400 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From Alamo Bridge drive east on dirt rd. ± 4 miles to Jack Gray residence, at mouth of canyon. Well is located at far end of corral below residence; has gas punmp; no windmill.

Terrain: Hilly, eroded due to being in mouth of Alamo canyon. Well is located in wash; high cement walls be

Ground Cover: Mesquite along wash, various cactus.

Flow: Past (date) 3500 gal/day/ 3/51 (18'-6/50) **Present** Unk

Depth 42'? **Length** 4' **Width** 4' **Storage** ____ **gals. (estimated)**

Brief History: Millers purchased well & nearby mining well for $750.00. Contracted Rube Daniels to dig well 1914. Millers purchased area from Powell & Hubsteader. Rented rights to Gray family in 1937. Well formerly pumped by windmill. Area reportedly used as "sm.Papago Indian village in 1917."

Present Development and Human Use: Two sm. buildings--residence of Jack & Lucille Gray, corral, well & minor materials.

Wildlife Use: Probably miscl. varities due to trough in corral & number of waterholes in canyon.

Remarks & Recommendations:

1. **Development and Maintenance** Could be considered as visitor use area after departure of Gray family.

2. **Protection and Use** Same as above.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/26/68

OPTIONAL FORM 24
FEB 1962
GSA Circular No. 529

SHELF FILE CHARGEOUT RECORD (Letter Size)

DIAZ PEAK

Tinajas: Diaz Peak
Cement Tank
Rustler's Canyon

Wells: Blankenship Well

Springs: B ee

DIAZ PEAK

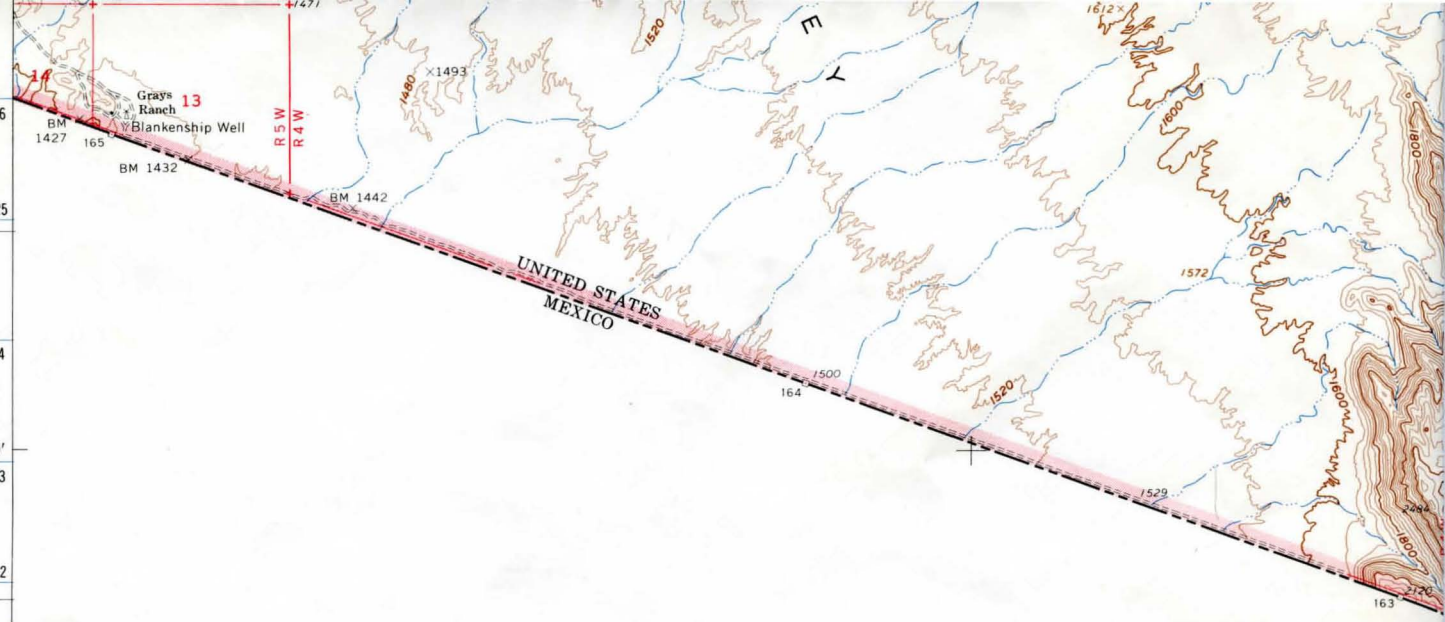



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
3448 III (KINO PEAK)
112°45′
32°00′
ARCH CANYON 3.2 MI.
Diablo Mts
AJO MTN DR
ONE WAY
AJO MOUNTAIN DRIVE
ONE WAY
NAT. MON. HDQRS. 3.8 MI.
Sweetwater Pass
INDIAN
RESERVATION
Diaz Spire
Diaz Peak
Cement Tank
AJO RANGE
ORGAN PIPE CACTUS
SONOYTA
NATIONAL MONUMENT
VALLEY
Gravel
Bee Spring
BM ×1742
BM ×1614
BM ×1532
×1816
×1671
×1572
T. 17 S.
T. 18 S.
R 5 W
R 4 W
3447 IV (LUKEVILLE)

DIAZ PEAK QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)

3548 III
(PISINIMO)





3526 3525 3524 50′ 3523 3522 3521 3520 3519 3518 3517 280 000 FEET 3515 3514

31°45′ 112°45′

335 336 337 250 000 FEET 338 339 340 341 342 40′ 343 344 345

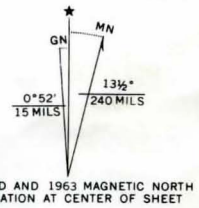
Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1963

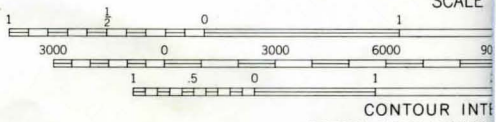
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Where omitted, land lines have not been established



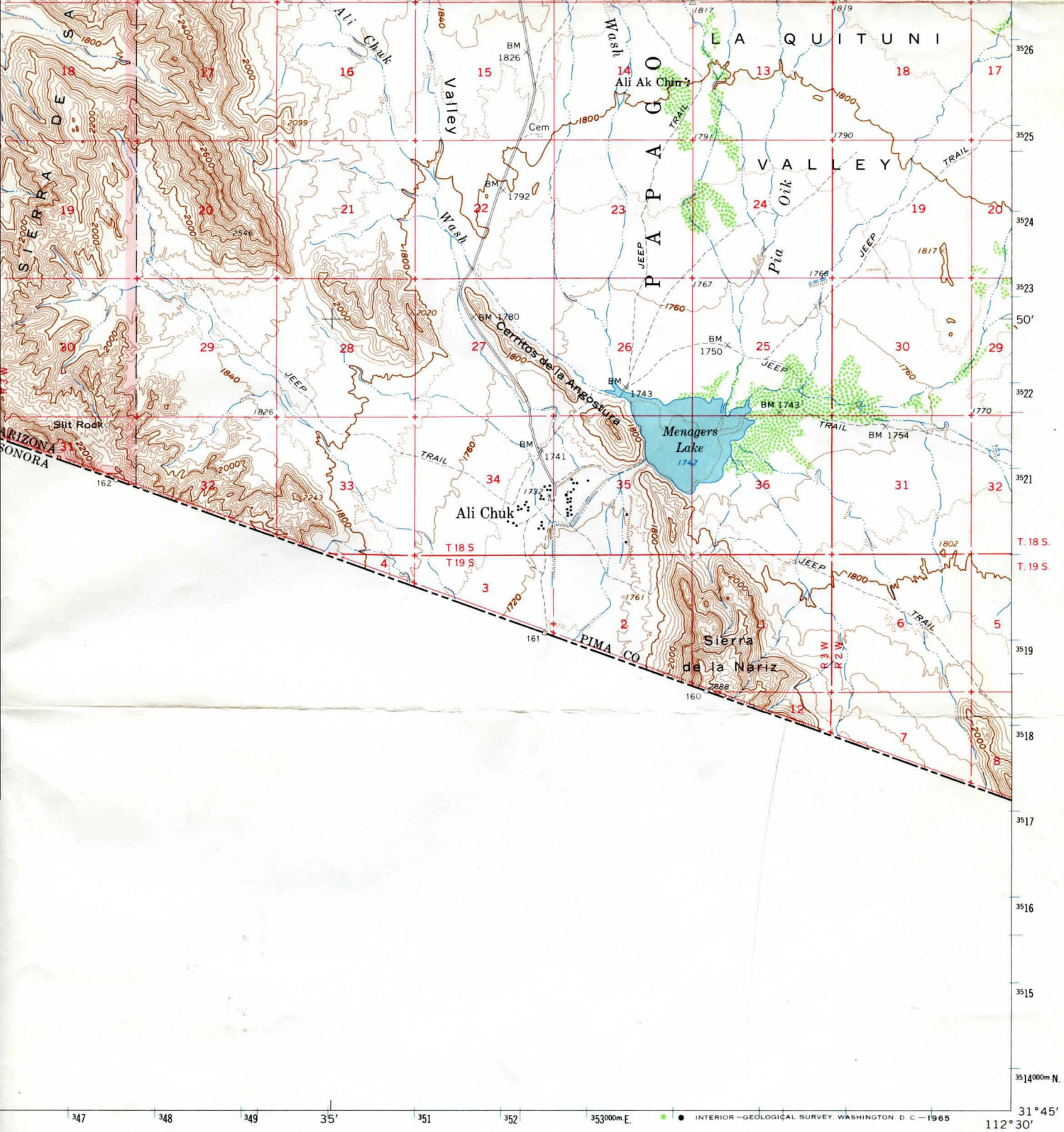
UTM GRID AND 1963 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE



CONTOUR INTE
DOTTED LINES REPRESE
DATUM IS ME

THIS MAP COMPLIES WITH NATI
FOR SALE BY U. S. GEOLOGICAL SURVEY; DEN
A FOLDER DESCRIBING TOPOGRAPHIC MAP



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965

62500

2 3 4 MILES

12000 15000 18000 21000 FEET

3 4 5 KILOMETERS

VAL 40 FEET
T 20-FOOT CONTOURS
SEA LEVEL

AL MAP ACCURACY STANDARDS
ER 25, COLORADO OR WASHINGTON 25, D. C.
AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - - -

DIAZ PEAK, ARIZ.

N3145 —W11230/15

1963

AMS 3447 I—SERIES V798

PARK:

NEGATIVE NO._____

SEE CLASSIFICATION NO._____

SUBJECT: Water Hole
air view

LOCATION: NW face of Diaz Peak

PURPOSE: record location of water hole

PHOTOGRAPHER AND COMPANIONS: Begeman, NPS
Carrico, NPS

DATE: spring 1968

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NEGATIVE FILE ENVELOPE

FORM 10-107
(JULY 1961)

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Diaz Peak Tinaja

Quadrangle Diaz Peak **T.** 17S **R.** 4W **Elevation** 2600 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive to Cement Tank (see). From tank walk northeast toward visible dark, down-folded layers in mt. slope. Upon reaching the first high walls, turn right (se) up large canyon + ¼ mi. to lg. bowl & tinaja in canyon. OVER →
Terrain: Somewhat steep. loose rock. Steep sides around tinaja require cautious descent to water.
Ground Cover: Catclaw & baby bonnets in washes, some mesquite.

Flow: Past (date) None **Present** None

Depth 22" **Length** 13' **Width** 6' **Storage** ____ **gals. (estimated)**

Brief History: First recorded discovery by rangers Taylor & Cable in 7/67 who were led to obsure site by white-wing doves. Re-visited by Cable & Hoy in 7/68 who recorded measurements & route.

Present Development and Human Use: None.

Wildlife Use: Deer & coyote scats found by tanl.

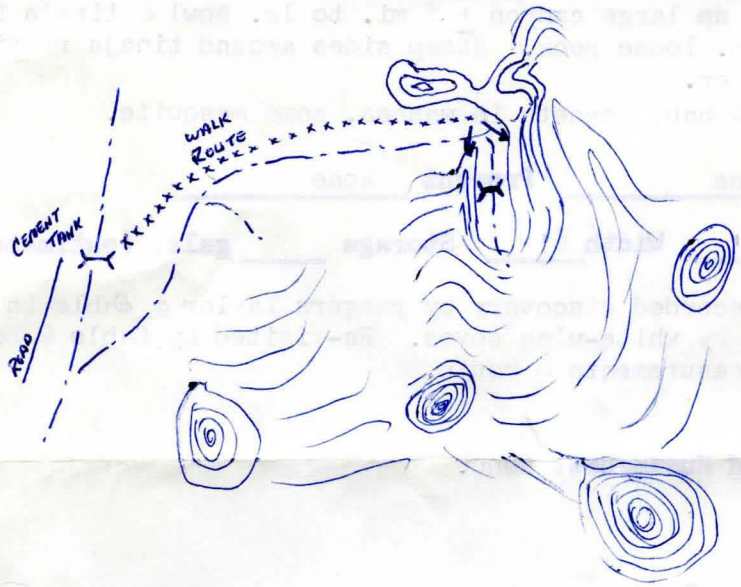
Remarks & Recommendations:

1. **Development and Maintenance** None.

2. **Protection and Use** None.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/15/68

FOLLOW ARROYO TO THE EAST OF CEMENT TANK UP STREAM ON LEFT BANK UNTIL YOU COME TO SHARP RISE. AT THAT POINT ARROYO FORKS. TAKE RIGHT (SOUTH HEADING) FORK TO TINAJA.



ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Diaz Peak Tinaja depth 22" Diaz Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
7/15/68	Cable-Hoy	16 in.	Water noted 10 days after .68" rainfall (at VC). Since hot, windy.
12/21/68	Cable	full	last rain 11/13&14/68 .49 tinaja frozen over
1-13-69	BEGEMAN	APPROX 20" - (2-3" BELOW FULL)	LAST RAIN on 12/26&27/68 .94" @ U.C. RECENT DEER PELLETS AROUND EDGE
4-14-69	ABBEY	FULL	RAIN OF UNKNOWN AMOUNT ON 4-10 IN DIAZ AREA
5/27/69	Goodsell	8" LEFT	DOVES + BIGHORN DROPPINGS IN AREA. TANK 1/4 - 1/5 FULL
12-18-69	Goodsell & Brown	FULL	
2/23/71	Inman	2"	Rainfall since Nov. .77. No animal tracks or sign
6/ /76			





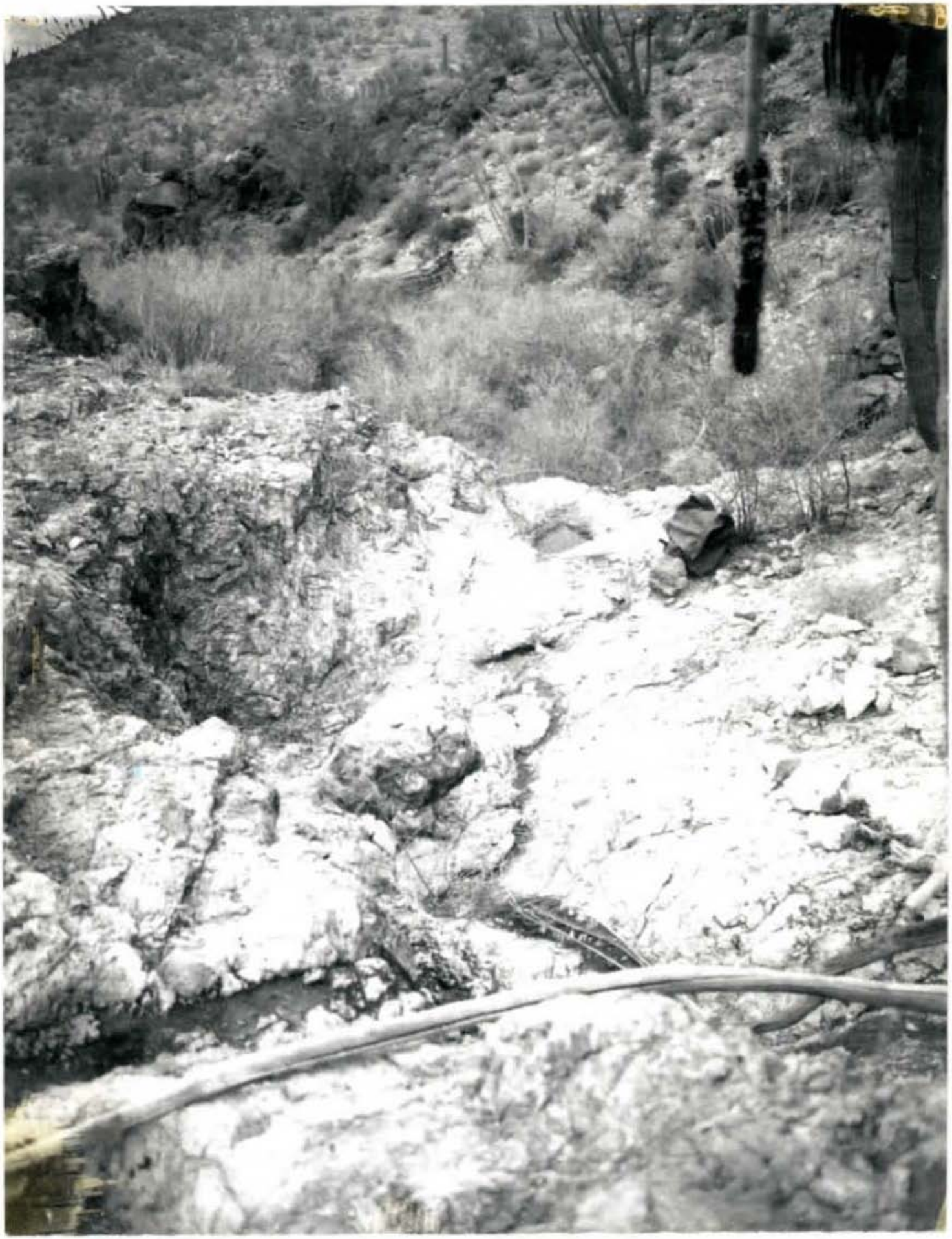


2/23/71 mjd

Diaz Teniaja 24" x 15" with 2 inches water

(rain for the year: .06 inches

J030081



1 8 0 0 3 0 r

2/23/71 mjd

drag Tarp in 24" x 15"
with 2" water

(rainfall for the year: .06")

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Cement Tank

Quadrangle Diaz Peak **T.** 17S **R.** 4W **Elevation** 2000 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From Lukeville Customs drive east along boundary fence to Dos Lomitas hills or Blankenship Well. Turn left (north) and drive long, occasionally rough road to large cement dam in wash on right side.
Terrain: Rolling plains, occasional washes. Tank at base of Diaz Peak in large wash.
Ground Cover: Overgrazed. Access route dominated by creoeote-salt bush. Sanuaro, organ pipes and legumes in washes around the tank.
Flow: Past (date) None **Present** None

Depth 8 ft. **Length** **Width** 70 ft. **Storage** filled **gals. (estimated)**

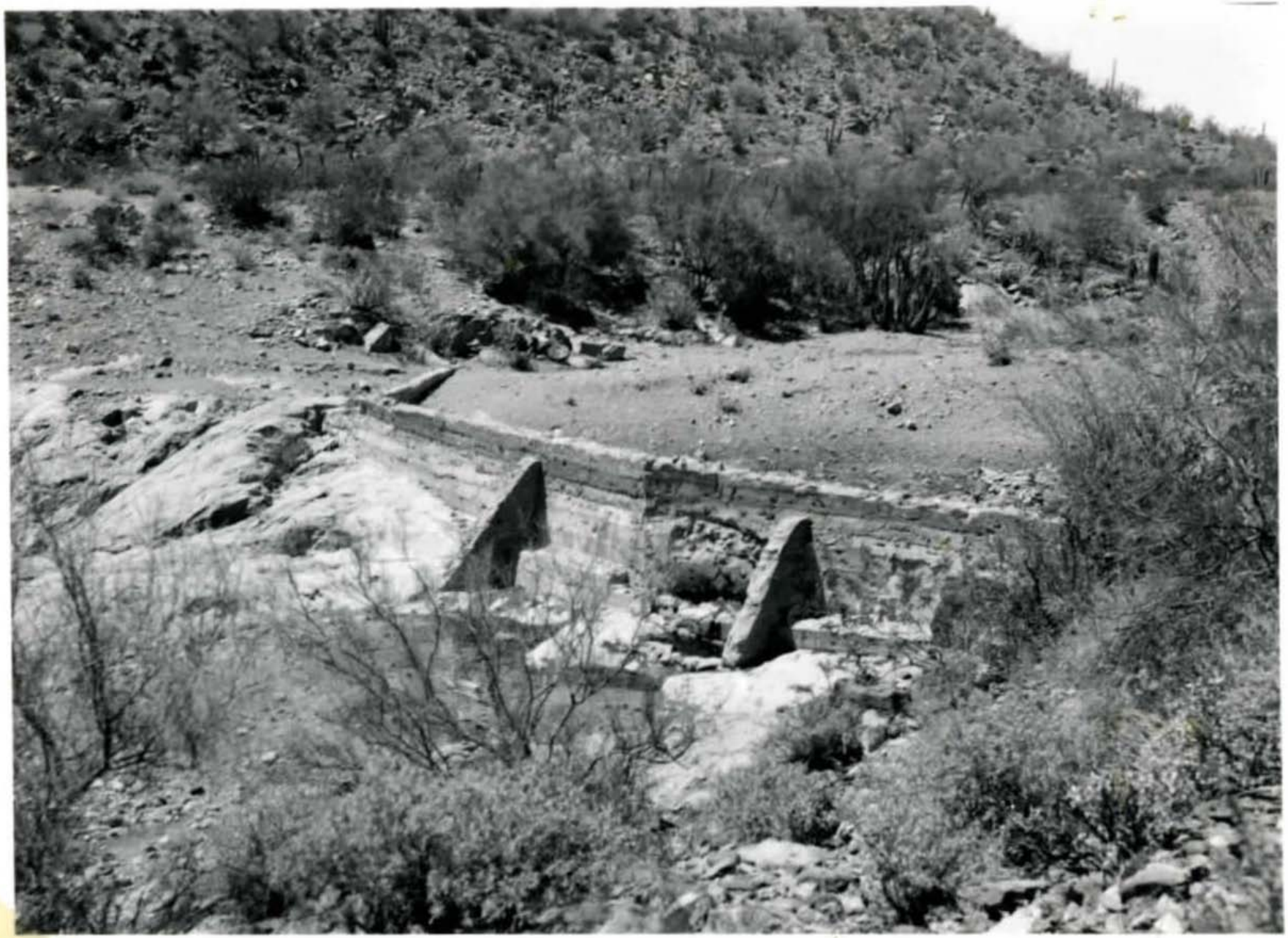
Brief History: A cement dam built in and across an arroyo by Lon Blankenship (probably) during 2nd decade. Filled w/ sand & gravel. Possibly intended as a "sand tank" due to a protruding pipe in bottom of dam, i.e., dam fills w/ sand and wa ter percolates through pipe and accumulates in sm. pool of lower side.
Present Development and Human Use: Dam has long since filled with gravel and is not kept cleaned out. Pipe in bottom and overflow during rainfall temporarily allows standing water in depression on lower side for stock use.

Wildlife Use: See above. Considerable digging evident below dam.

Remarks & Recommendations:
1. **Development and Maintenance**

2. **Protection and Use**

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/15/68



2/23/71



note growth in silt

Mgd

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Not a permanent source

Name of Water Source Cement Tank — depth 8' (96") — Deer Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
7/15/68	Cable-Hoy	Dry	Dry after 10 days since .86 rainfall. Hole± 3' dug below dam.
12/21/68	Cable	small ponds at the base of dam	rained last night- cold and damp this afternoon
12-31-68	ABBY	HOLES AT BASE OF DAM FULL	LAST RAIN 12-26 0.96" AT HEADQUARTERS
1-13-69	BEGEMAN	DAM DRY - WATER IN SAND TRAPS BELOW DAM.	" " " - CATTLE, DEER & PIG SIGN IN SAND TRAPS
12/31/68	Abby	holes at base of dam full	
4-14-69	ABBEY	DRY	RAIN of UNKNOWN AMOUNT IN AREA on 4-10
12-18-69	Goodsell & Brown	DRY	
2/21/71	Brennan	DRY	Rainfall for year: ~~0~~ 1.03" since Nov.
7/23/71	Patrick	Pool at base of dam 20 ft. X 30 ft. X 12 in. + small potholes	Last probable rain in vininity 7/21/71. Amount unknown.

WATER SOURCE HANDBOOK

Name of Water Rustler's Canyon

Quadrangle Diaz Peak/ Mt. Ajo **T.** 17-S **R.** 4-W **Elevation** 2300 **ft.**

Access Route From either Cement or AMD post # 21 walk northeast into lg. bowl or "rincon" turn northeast & follow well used trail into narrow canyon. Emerge from canyon at eastern end passing thru short fence leading onto Papago Reservation. From beyond fence circle back west via faint trail down into lg. drainage with several tinajas.
Terrain All canyons rocky, reaonably passable. Ten to 12 tinajas in lower canyon.

Ground Cover Legume trees, e.g., cat claw, drainage base mostly rock.

Flow (Dates)

Depth (Max.) 3 **ft.** **Length** 7 **ft.** **Width** **ft.** / largest of 12 **Storage** **Gals.(est)**

Brief History Vague stories recount this canyon reportedly being used as a hideout for cattle rustles. A rustler-lawmen showdown reportedly occured cir. 1912. Present, well used trail leading from Cement Tank-Sonoyta area thru cut & onto grassy slope on Reservation.

Present Development and Use May be area for Papago sheep hunting. Lg. tub, bucket, block of wet cement & sign "Construction, etc." under overhang near lower canyon. Trail & campsites, probably used by Papagos in upper part on grassy flats. also chipping (point) site here.

Wildlife Use Probably variety of wildlife, e.g., bighorn, if not excessively hunted by Papagos.
Remarks and Recommendations Too remote for much NPS use. Recommend historical & current trail use research.

1. **Development and Maintenance**
   None, too remote. Waterhole enalrgement would probably only increase hunting in area.

2. **Protection and Interpretation** Due to NPS inacessibility & Papago-Mexican accessibility probably nothing can be done here, except for more historical & current use research.

Bill, Marina Hoy

4/69

WATER SOURCE REPORT

Name of Water source Rustler Canyon

Quadrangle (Mt. Ajo) Deer Peak **T.** 16s **R.** 4w **Elevation** 2800 **Ft.**

Access Route Best access from either post 21 on Ajo Mt. Drive, or above post or from cement tank. Se map for exact route.

Terrain Lower canyon steep walled, symetrical, moderate grade; after intermident water fall, grade steep.

Ground Cover Miscl legume and other chapperal-type growth making difficult travel in upper canyon.

Flow Past (Dates)

Depth (Max) reverse
Length see/ **Ft.** **Width** ft. **Storage** gals. (estimated)

Brief History Unknown except Frank Brown mentions a shoot-out in the canyon cir. 1912, with rustlers and an unknown party.

Present Development and Use None

Wildlife Use None

Remarks & Recommendations

1. **Development & Maintenance** None

2. **Protection & Interpretation** Rustler history should be further researched and routes into canyon better noted.

2.

ORPI-R-2 (09-67)

Supt [illegible]
Chief Ranger
Assist Chief Ranger
File

ORGAN PIPE CACTUS NATIONAL MONUMENT
Ranger Patrol Report

Purpose of Patrol: Explore S end of Ajos

Name: Cable and Goodsell Vehicle: personal

Date: 2-21-69 License No:

Depart: 0700 Odometer End:

Return: 1800 Odometer Start:

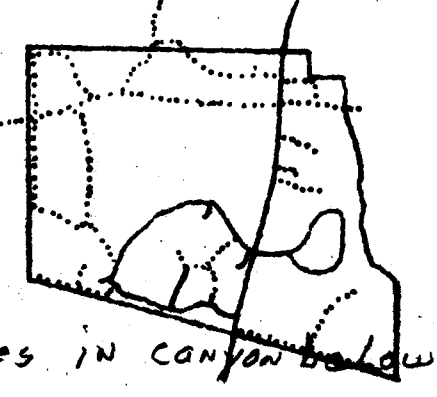
Total Hours: 10 Total Miles:

NARRATIVE: (B e brief but accurate and complete, include times and mileages as necessary. Indicate route of travel on map.)

Left car at Estes Canyon Picnic Area and went up Mt Ajo by way of Bull Pasture - From Mt Ajo we went South down the boundary to marker #11 - We went about 1/4 of a mile further S along the boundary and then we dropped into Rustler Canyon. Nine main water holes in Rustler Canyon

	Present Depth	Projected Depth when Full	Length	Width	remarks
1	19"	29"	13'	8'	Moss and
2	7"	15"	6'	4½'	algae present
3	10"	13"	7½'	5'	in all ponds
4	11"	25"	12'	5½'	No wildlife
5	32"	34"	16½'	6'	signs - mosquito
6	12"	19"	10'	4½'	Larva? present
7	30"	36"	12'	3'	rock type Andesite
8	16"	23"	10½'	4'	
			6½'	2½'	

Tremendous dike cutting canyon about half way down it - probably several more water holes in upper canyon



Two arches in canyon below the

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Rustler's Canyon

9 Tinajas: depth 3" (36") to 13" Deer Peak

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
6-21-69	Cable	all tinajas empty	peccary have been digging in sand looking for water
3/21/71	Bill, Marina Hoy	largest tinaja 13" water approx. 7 ft. X 2 ft. hole (approx. 1 ft. low)	A major drought period. Only approx. ½" rain this year. Considered to be a reliable water hole.

BLANKEN SHIP CAVED IN ——— WINDMILL DOWN ATTEMPT TO CLEAN & REDRILL

WATER

Name of Water Source: Blankens
Diaz
Quadrangle Peak **T.** 18S **R.** 5W

Photos Yes **Sketch** No **Record**

Access Route: Drive on Hwy. 85 s
east and drive ± 5¼ miles along

Terrain: Flat, overgrazed, few ar

Ground Cover: Little due to overg
creosote & salt bush dominate the
Flow: Past (date) + 20,000 gal/da
8/51; 75' 7/52.
Depth +85/ **Length** **Width**

Brief History: Dug by Lon Blankens
Robert Louis Gray. for 5,000. Gray
of homestead rights elsewhere. Gra
1937--denied. Presently used under

Present Development and Human Use:
locked by the Gray family. Little i[illegible] use of the site is made by them.

Wildlife Use: Possible use in corrals-troughs.

Remarks & Recommendations:

1. **Development and Maintenance** Permission for the NPS to protect west end of the Blankenship home should be sought, from the Grays; also to acquire the building for NPS use upon termination of Gray residence in the Monument.

2. **Protection and Use** None.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/13/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Blankenship Well (Gray's Ranch, Dos Lomitas)

Quadrangle Diaz Peak **T.** 18S **R.** 5W **Elevation** 1430 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive on Hwy. 85 south to Lukeville Port of Entry. Turn east and drive ± 5¼ miles along boundary to Blankenship Well.

Terrain: Flat, overgrazed, few arroyos cross road.

Ground Cover: Little due to overgrazing, mesquite along arroyos; creosote & salt bush dominate the access & ranch area.

Flow: Past (date) ± 20,000 gal/day **Present**
8/51; 75' 7/52. /1952

Depth ±85/ **Length** **Width** **Storage** gals. (estimated)

Brief History: Dug by Lon Blankenship in 1917. Purchased ± 1919 by Robert Louis Gray for 5,000. Gray filed settlement claim--denied because of homestead rights elsewhere. Gray filed application to purchase in 1937--denied. Presently used under terms of grazing permit.

Present Development and Human Use: Buildings are intact and kept locked by the Gray family. Little if any use of the site is made by them.

Wildlife Use: Possible use in corrals-troughs.

Remarks & Recommendations:

1. **Development and Maintenance** Permission for the NPS to protect west end of the Blankenship home should be sought, from the Grays; also to acquire the building for NPS use upon termination of Gray residence in the Monument.

2. **Protection and Use** None.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/13/68

Water Book

RECONSTRUCTION OF BLANKENSHIP WELL

ORGAN PIPE CACTUS NATIONAL MONUMENT

Work Order No. 8660-0008511

Progress report by: Richard K. Weaver CET

The purpose of this project was to reconstruct this old historic well with modern methods for future use in regard to the interpretive plan or Blankenship Ranch. According to unwritten records this well is some 57 years old. It was originally hand dug to about a depth of 90 to 107 feet. In later years, Jack Grey had dug out more material to about 113 feet. This was due to the lowering water table and caveins. He has not been in this well for 30 years, according to our on site conversation with him on April 26, 1973.

The depth of this well before starting this project was 76 feet from the top of the concrete and rock square framework around the 35" by 30" opening. This framework is 19" high from the ground to the top. The well itself is cased with wood timbers around the square opening to the bottom of the 76' depth at least. There is some water at the bottom of this existing depth.

On April 20 several quotes were obtained to do the following work:

1. Bail the well of loose material and debris
2. Install 18" culvert pipe to the depth of 113' if possible

The only quote available was from Gilbert Pump Co. of Tucson of which was to be at another well site at ORPI the 23rd of April. All other firms could either not do the work or could not be contacted. Gilbert Pump Co. was given the job and moved to the Blankenship Well site on Wednesday April 25, 1973. On Monday and Tuesday the 23rd and 24th, the park staff were preparing for the lowering of the existing windmill over the well. This mill is about 30 feet high with a 10 ft. Aeromoeter blade. It was determined that the pump firm could do a better job with their equipment to lower this mill. The pump firm had started to move into the well site at 7 a.m. and then proceeded to set up for lowering the windmill. This job took until 12 p.m. . The park maintenance crew was doing most of the welding and other miscellaneous task in getting it lowered. They also removed the loose logs that were across the opening of the well.

At 1:00 p.m. the pump company began lowering the 10" bailer and very slowly began removing the loose material in the bottom of the well. It was a tedious task because the log walls of the well were very fragile due to loose logs. This process was continued until 2:30 p.m. At 3:20 p.m. the 18" galvanized culvert for well casing was delivered by Garland Steel Co. of Phoenix. The sections were in 20 ft. lengths and the first

length was perfurated with a cutting torch and carefully lowered into the well opening by the well rig of the pump company. The next section was raised and welded and clamped to the first and this process continued until 80 feet of casing was in place and resting on the bottom of the well. The well or pump firm again began bailing or attempting to bail and found some very hard material to penetrate, bringing very little water up as they bailed. This process continued until 6:00 p.m.

On April 27, 1973 at 8:39 a.m. the crews again began hitting the hardened material with their bailer. This continued until 11:00 a.m. when they finally broke through some old wood and rock. The bailer then began to lower itself to the point where a five foot section was cut and welded to the lowered portion. This process continued until about 2:00 p.m. when hard dry material was hit and no water was available. After some discussion with the Gilbert Co. Supervisor, Joe Brown, it was decided that we should either abandon the bailing or get some water and try and break this crust. I decided that it was worth a try to get some water truck to the site and add water. In the meantime I went to headquarters to confer with the Park Superintendent about the problem. He agreed that maybe we have done about all we could to preserve the well structure and maybe we should discontinue.

Upon returning to the well site the bailing was continueing with the water truck adding some water. The hard portion of the well was broken through and they went through some gravel and hit a water vein or acquifer. By 5:00 p.m. the bailer was delivering some water and mud with the casing lowering, by 6:00 p.m. the mud got thicker and a five foot section of casing was welded in place with two feet above the concrete and rock square opening. A couple of more bailings showed that there was some mud and a little water. After some discussion with Gilbert pump it was decided that it was not practical to continue at this pace. Because of the changing conditions and time adding to the cost we felt it more practical to have a drill rig continue the process. During the later part of the day, Mr. Jack Grey was on hand to give us some information about the well. He had not been in this well for 30 years but in the early years the water table seemed to be dropping and he had dug out the bottom to get enough water for his cattle operation. This depth was from 107 to 113 feet. Based on the lowering water table and the slow process I had the well reconstruction stopped and the work was completed at 7:30 p.m.

Based on the following information it is recommended that a contract be let by water resources in region to drill additional depth of about 185 feet to obtain a more suitable acquifer for (1) Monitor water use in area by measuring periodically under water resources program (2) To obtain an adequate quantity of water to pump by windmill for park interpretive program (3) To obyain an adequate quantity of water for domestic use for future visitor use. A submersible electric pump could be installed at the bottom of the well and the windmill portion could pump above the electric pump for park interpretive program. There is currently a two h.p. submersible pump in stock at Saguaro NM which is not used. It was recently pulled from a dried up well at quarters No. 43. The pump

is only a few months old. An electric power source would have to be made available. In the meantime the windmill could supply a portable supply for the visitor drinking and interpretive use. A sketch plan is enclosed for clarity.

An irrigation well is currently being utilized about a mile away by the people of Mexico. Its' depth is 275 feet and pumps approximately 400 GPM.

The reconstruction costs of the Blankenship Well thus far is as follows:

1. Moving in and out of site, bailing well and installing 18" galvanized, spiral culvert as casing = $ x 20 hrs. $500.00

2. 100 feet galv., spiral culvert @ $4.55 per ft: = $455., 4 ea. steel galv. bands @ $4.55 ea. = $18.20 frt. = $1.25 per driving mile = $175.00 Total to Garland Steel Co. + 648.00

3. 120 ft. 3/8" steel galv. soccer rod @ $ .75 ft. = 90.00

4. Organ Pipe Cactus personnel costs:

Flynn	2 MD	= 16 hrs.	@	$6.42 hr.	=	$113.00
Thomas	3 "	= 24 "	@	4.77 hr.	=	126.00
Worsham	4 "	= 48 "	@	4.77 hr.	=	168.00
Roth	1 "	= 8 "	@	4.24 hr.	=	37.00
Julander	1 "	= 8 "	@	4.14 hr.	=	36.00
Kohr	PMD	= 3 "	@	3.72 hr.	=	98.00
						577.00 *

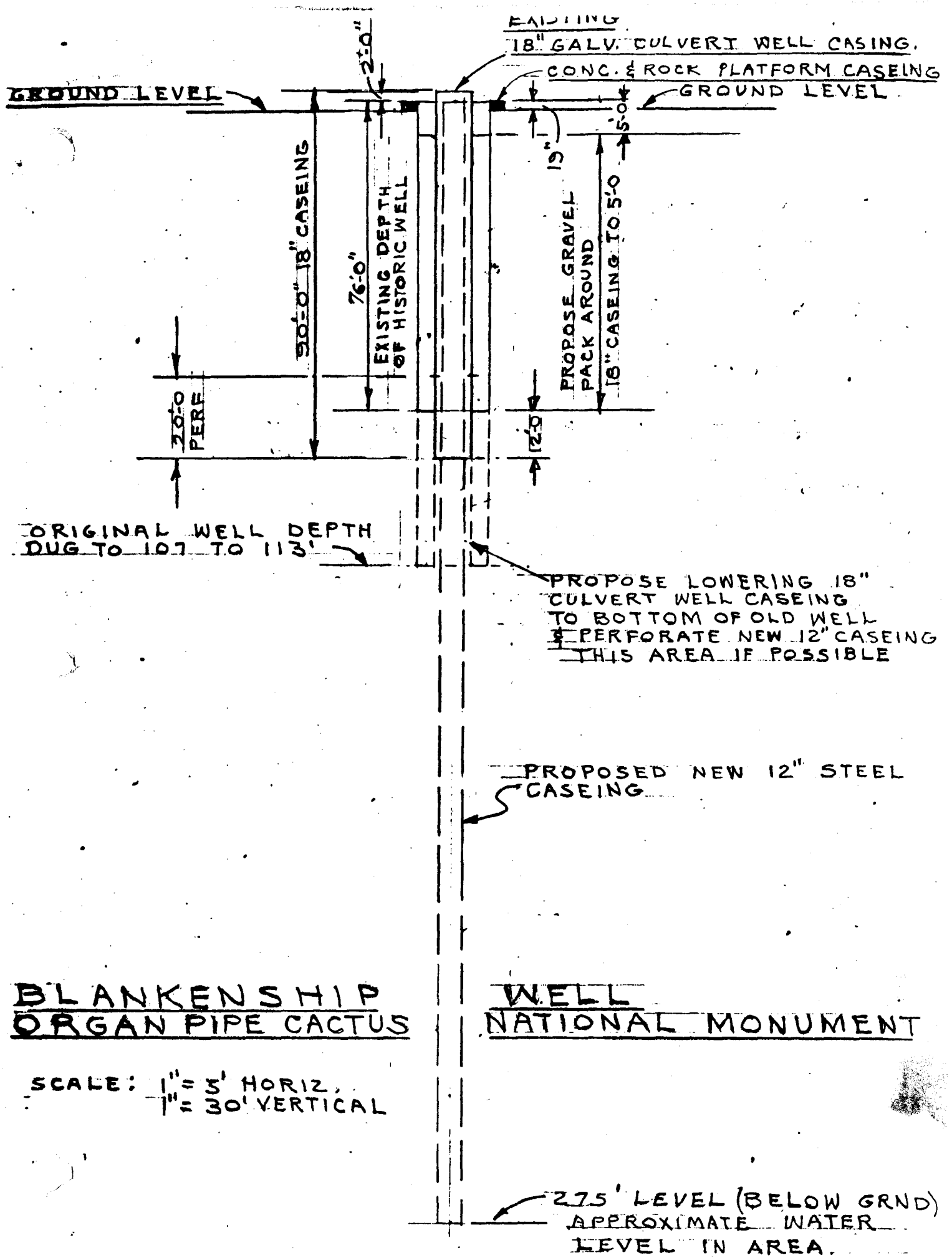
577.00

*This total figure is with estimated benefits by U.S. Government $1825.20

Total projects costs charged to work order -- $1825.20
Costs of supervision by SOAR (per diem = $44.00) 44.00
* charged to SOAR account Total Job Costs to date 1869.20

Although there was about twelve feet of casing lowered into the cavein portion of the well, this project took a great deal of cooperation and active participation by the park staff, especially the Park Maintenance.

Jack Worsham worked extra hard to get the welding completed and prepare the windmill for lowering by building scaffolding. The comment by the Gilbert Pump Co. represenative was that this was one of the best crews he had worked with. I personally enjoyed the work with the park staff and contractor.



BLANKENSHIP WELL
ORGAN PIPE CACTUS NATIONAL MONUMENT

SCALE: 1" = 5' HORIZ.
1" = 30' VERTICAL

ORPI 1/71

WATER SOURCE REPORT

Name of Water Source B ee Spring (from the multitude of bees in and around the spring)

Quadrangle Diaz Peak T. 17 S R. 4 W Elevation 2000 Ft.

Access Route Fron the south boundary road follow faint jeep road along the bench marks to west entrance to Ali Wau Pass. Stop near bench mark 1877' and proceed on foot along the escarpment forming the west side of the Santa Rosas to large overhang (visible from the road a mile west of the stopping point). Spring is under large overhang.

Terrain Rocky gradually changing to gravel at the lower elevations.

Ground Cover wild folwers and shrubs gradually changing to cacti and creosote bus h at the lower levels.

Flow Past (Dates) The seepage was very smallon Feb. 9, 1972. There had been no rain in the area since ½" rain in Dec. 1971.

Depth (Max) There was seepage from several areas with some retension in a small cavity in the rocks.

Length Ft. Width Ft. Storage 1 gals (est.)

Brief History Unknown, There is evidence of early Indian s in the vicinity (sherds, rock chips, metate , etc.) Visited by Ranger Cole and VIP Irish on Feb. 9, 1972.

Present Development and Use None.

Wildlife Use Bees, birds. There some animal scat beneath the overhang.

Remarks & Recommendations

1. Development & Maintenance N one

2. Protection & Interpretation

United States Department of the Interior

NATIONAL PARK SERVICE

COOPERATIVE NATIONAL PARK RESOURCES STUDIES UNIT
125 BIOLOGICAL SCIENCES (EAST) BLDG. 43
UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

IN REPLY REFER TO:

12 Jan. 1982

MEMORANDUM

TO: Resource Management Specialist, ORPI

FROM: Biological Technician, CPSU/UA

SUBJECT: Photographs of Bee Spring

Enclosed is a set of three slides taken of Bee Spring and vicinity during our December 1981 field trip with Ranger Bill Mikus. The close-up does not show much water, as there was not much there, but does show the situation in which the water occurs. The two others serve to locate the spring from a distance.

Bryan Brown

Bryan Brown

Year of the Visitor

PROCESSED BY KODAK

flow rate in this photo is < 0.5 gpm

Kodachrome
SLIDE

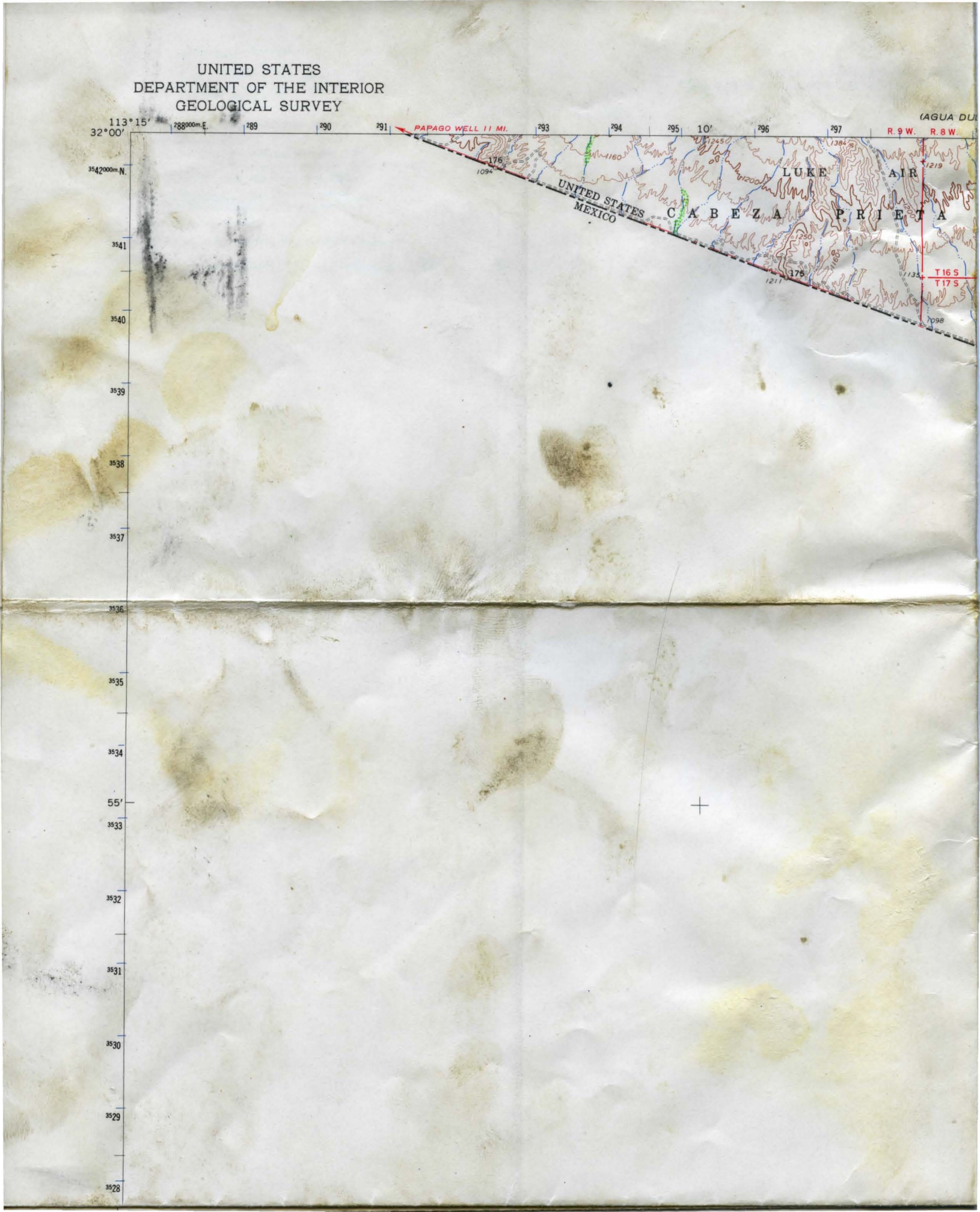
SHELF FILE CHARGEOUT RECORD (Letter Size)

QUITOBAQUITO

Springs: Quitobaquito
Burro Springs
Aguajita Springs
Williams Springs

Wells: Hocker Well
Levy Well
Montgomery Well
Jenkins Well
Oldham Well

QUITOBAQUITO


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
113°15'
32°00'
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290
291
PAPAGO WELL 11 MI.
293
294
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175
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LUKE AIR
UNITED STATES
MEXICO
C A B E Z A P R I E T A
250
1168
1135
175
1211
T 16 S
T 17 S
098


QUITOBAQUITO SPRINGS QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)
3448 III
(KINO PEAK)
BATES WELL 16 MI.
160 000 FEET
113°00'
32°00'
302
303
5'
304
305
306
307
308
310
MOUNTAIN
ICE
RANGE
GAM
RANGE
ORGAN PIPE CACTUS
QUITOBAQUITO HILLS
NATIONAL MONUMENT
Cipriano Pass
Cipriano Hills
BM 1304
BM 1247
BM 1190
BM 1147
BM 1131
1756
1725
1633
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1349
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1127
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1121
1113
1080
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1044
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1025
1017
1110
1200
1400
1600
1800
1000
1200
1400
1600
1800
2000
ARIZONA
SONORA
174
173
172
Airstrip
Cerro Well
Cerro Blanco
Hocker Well
Williams Spring
Burro Spring
Quitobaquito Springs
Aguajita Spring
Aguajita Wash
DRIVE
PUERTO BLANCO
LA ABRA PLAIN
Montgomery Well
Jenkins Well
Oldham Well
Levy Well?
PIMA CO
DRIPPING SPRINGS 10 MI.
23 MI. TO ARIZ. 85
LUKEVILLE 14 MI.
360 000
FEET
55'
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3540
3537
3535
3534
3533
3532
3531
3530
3529
(LUKEVILLE)
3447 IV

WATER SOURCE REPORT

Name of Water source Quitobaquito

Quadrangle Quitobaquito T. 17S R. 8W Elevation 1080 Ft.

Access Route Drive Puerto Blanco Dr. from either side (13 mi. from south side) to pond.

Terrain Flat area leached with white minerals, beneath granite Quitobaquito hills. Quito. (incl. Burro and ~~Rincon~~ Wilson) is a fissure-type spring.
Ground Cover Cottonwoods, common & screwbean mesquite, condalia, wolf berry, desert willow, bulrush, etc.

Flow Past (Rates) 30 gal/min in 1956; 43 gal/min in 1917.
Temp. approx. 80° at spring.
Depth (Max) Av. 39"
Length 300' Ft. Width 200' ft. Storage gals. (estimated)

Brief History Early used as center of band of Sand Papagos. Noted by Kino in 1698. Settled cir. 1860 by Adolph (Andrew) Dorsey who built ponds, adobe jacal, planted pomegranate & fig trees. Lated used by T. Childs, R. Daniels and J. Merril, and families Lopez, and Orosco. A frequent watering place for miscl. travelers. Jim Orosco, Sand Papago, bought out in 1957.
Present Development and Use A major visitor -use area, esp. for birds.

Wildlife Use Primarily a bird oasis; little else reported, formerly reportedly inhabited by desert bighorn.

Remarks & Recommendations

1. Development & Maintenance A quitobaquito policy, es. re. the adjacent parking lot, picnic table should be considered. Periodic "brushing" is important to trail walkers.

2. Protection & Interpretation Present bird walk (1967-9) should be continued. Dificcult history should be continued.

WATER SOURC

BURRO SPRING

Name of Water Source: Burro Spring

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Ele**

Photos Yes **Sketch** NO **Recorded**

Access Route: From Quitobaquito wall fence and continue north from north of the two saddles & down into inco

Terrain: Rolling granite hills.

Ground Cover: Overgrazed. Spring co & grasses well cropped from grazing.

Flow: Past (date) Unk. **P**

Depth 2-3" **Length** var. **Width** 20'

Brief History: Probably none of any

FENCED 1977 IN AN EFFORT TO PREVENT BURRO FOULING & TO DRIVE BURRO'S TO TRAPS

Present Development and Human Use: None.

Wildlife Use: cattle use, probably miscl. wildlife also.

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Spring is protected by lack of its knowledge, but after cattle removal might be considered as a walk from Quito., or as a stop enroute to Rincon Spring via an NPS constructed trail.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/25/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Burro Spring

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1160 **ft. Map Scale** 1:62500

Photos Yes **Sketch** NO **Recorded on Map** Yes

Access Route: From Quitobaquito walk to northern end of fence, or around fence and continue north from northeast corner of fence over the right of the two saddles & down into inconspicuous ravine containing spring.
Terrain: Rolling granite hills.

Ground Cover: Overgrazed. Spring contains some pluchea (tule), mesquite & grasses well cropped from grazing.
Flow: Past (date) Unk. **Present** ran ± 70 ft. on ground (after rain.

Depth 2-3" **Length** var. **Width** 20' **Storage** none **gals. (estimated)**

Brief History: Probably none of any significance.

Present Development and Human Use: None.

Wildlife Use: cattle use, probably miscl. wildlife also.

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Spring is protected by lack of its knowledge, but after cattle removal might be considered as a walk from Quito., or as a stop enroute to Rincon Spring via an NPS constructed trail.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/25/68

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

Name of Water Source Burro Spring

Zeuto

Date	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
7/24/68	Bill Hoy	ran ± 70 yds. above ground.	Observation after 1.20" rain on 7/21/22/23. Much grazed.
7/10/70	Bill Hoy	" " 60 " to muc.	Observation after 109" rain since July 2.
3/15/71	Inman		Trampled + fouled by cattle. Could be such a pleasant watering site.
10/27/89	John Cole	2 pools of water, about 2 X 3 feet each, perhaps 2 inches deep. Slight flow of water for less than a yard	Many signs of deer and the javelina using water source.

4-5-78

WAT

AGUAJITA SP.
FENCED 1928 TO
PREVENT BURRO USE
& TO DRIVE BURROS
TO OTHER WATER

Name of Water Source: Aguaji

Quadrangle Quito-baquito **T.** 17S **R.**

Photos Yes **Sketch** No **R**

Access Route: From where ro
Quitobaquito, walk a short

Terrain: Aguajita Wash is a
rolling plain-type terrain.
Ground Cover: Mesquite anc
7755 gal/
Flow: Past (date) 2500 gal/
few su
Depth inches **Length** 510'/

Brief History: Probably nc
extant corral for trapping
watered at the spring.

MZ

Present Development and Human Use: See history above.

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance** No NPS development would be practical at this time due to heavy livestock watering and use by the Grays for trapping stock.

2. **Protection and Use** Upon termination of the Gray partnership and residence in the Mon. consideration might be given to use of the spring as a picnic site or other visitor use site.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/13/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Aguajita(o) Spring

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1120 ft. **Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From where road passes through Aguajita Wash 1 mile east of Quitobaquito, walk a short distance south to spring.

Terrain: Aguajita Wash is at this point, broad and ahallow within a rolling plain-type terrain.

Ground Cover: Mesquite and smoke trees are common in the wash.

Flow: **Past (date)** 7755 gal/day (Dunn)-12-58 2500 gal/day (Cutter) 3-51 **Present** 1 gal/min.-6/52

Depth few inches **Length** 510'/ **Width** 200' **Storage** surface flow none **gals. (estimated)**

Brief History: Probably no structures ever exixted here except Gray's extant corral for trapping livestock. Stock has undoubtedly long watered at the spring.

Present Development and Human Use: See history above.

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance** No NPS development would be practical at this time due to heavy livestock wattering and use by the Grays for trapping stock.

2. **Protection and Use** Upon termination of the Gray partnership and residence in the Mon. consideration might be given to use of the spring as a picnic site or other visitor use site.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/13/68

4-5-78

ORPI 7-68

ENTIRE SPRING &

Name o WDSHRED FENCED

Quadra 1977 TO PREVENT Scale 1:62500

Photos USE - TO DRIVE

Access BURROS & STOCK TO round (south) a

pond a OTHER WATER second jct. and

drive

Terra ANTELOPE GATES west side of

gran

Groun PROVIDED FOR WILD few mesquite. Olney bullrush

Flow: LIFE uchea border pools.

Depth ? OVER NITE CAMPING gals. (estimated)

Brie PUP FISH IN TANK ring 1914 (?) and 1919

when adows, R. Wright & Wm.

Keena & agri. purposes.

Meado rank Williams, who w/

Grays bought title, etc. built

Present Development and Human Use: Overnight camping is allowed here (w/ burro trap. a camping permit). Site is primitive (no facilities) and unattractive due to overgrazing. A concrete trough carries water ± 60 yds to a concrete tank for cattle watering. A barbwire fence surrounds spring to keep cattle out. built in 1960

Wildlife Use: Unknown miscl. miscl. wildlife probably drink from trough & its overflow.

Remarks & Recommendations:

1. **Development and Maintenance** None during cattle watering.

2. **Protection and Use** After Gray departure consideration might be given to trail from Quitobaquito to to Rincon Spg. via Burro Spg.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/13/68

4-5-78

ENTIRE SPRING & WDSHARED FENCED 1977 TO PREVENT USE - TO DRIVE BURROS & STOCK TO OTHER WATER

ANTELOPE GATES PROVIDED FOR WILD LIFE

? OVER NITE CAMPING

PUP FISH IN TANK

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Williams (~~Rincon~~) Springs

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1100 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From Cattleguard at Quitobaquito drive around (south) ~~around~~ pond and along boundary fence 1½ mi. and turn right at second jct. and drive northeast 1.1 mile to Spring.

Terrain: Flat. Spring located in cove ("rincon") on west side of granite Quitobaquito Hills.

Ground Cover: Badly overgrazed; considerable cholla, few mesquite. Olney bullrush & pluchea border pools.

Flow: Past (date) + 1500 gal. p/day 1 gal. in 57 sec. **Present**

Depth 2-3 ft. **Length** **Width** **Storage** gals. (estimated)

Brief History: Blankenship watered cattle at spg. during 1914 (?) and 1919 when rights were sold to Gray family. 1916: J. N. Meadows, R. Wright & Wm. Keenan had mining claims at spgs. & used for domestic & agri. purposes. Meadows left & Wright & Keenan soon solds rights to Frank Williams, who w/ Grays used for domestic & stock purposes. 1920 Grays bought title, etc. built

Present Development and Human Use: Overnight camping is allowed here (w/ a camping permit). Site is primitive (no facilities) and unattractive due to overgrazing. A concrete trough carries water ± 60 yds to a concrete tank for cattle watering. A barbwire fence surrounds spring to keep cattle out. burro trap.

Wildlife Use: Unknown miscl. miscl. wildlife probably drink from trough & its overflow.

Remarks & Recommendations:

1. **Development and Maintenance** None during cattle watering.

2. **Protection and Use** After Gray departure consideration might be given to trail from Quitobaquito to to ~~Rincon~~ Williams Spg. via Burro Spg.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/13/68



4-4-78

HOCKER WELL
DEPTH ____ X
WINDMILL STOLEN 1976
JACAL FIRE PLACE
COLLAPSED 1977
DOG 1924
PHOTO ____

ORPI 7-68

PORT

ell

ion 1000 ft. Map Scale 1:62500

ap Yes

t of Quitobaquito, drive around (south)
o well.

s, much chainfruit cholla in area.

ent ____

Storage ____ gals. (estimated)

ocker and an unnamed Mexican to

CIAL USE PERMIT

Present Development and Human Use: Used by Gray Partnership for livestock watering and trapping. Comprises a windmill, corral, cement trough and adjacent jacal-ramada built and lived in for a time by Hocker (Hocker).
? Removed 1977

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance**

2. **Protection and Use** See attached note by Bill Brown.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/13/68

4-4-78

HOCKER WELL

DEPTH _____ X

WINDMILL STOLLEN 1974

JOCOL FIRE PLACE

COLLAPSED 1974

DOG 1924

PHOTO ___

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Hocker (Jack's) Well

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1000 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From cattleguard just east of Quitobaquito, drive around (south) pond and along border fence 2.4 miles to well.

Terrain: Flat, few arroyos.

Ground Cover: Over grazed, few mesquites, much chainfruit cholla in area.

Flow: Past (date) _____ **Present** _____

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Tom Childs hired Ike Hocker and an unnamed Mexican to hand dig the well.

Present Development and Human Use: SPECIAL USE PERMIT
Used by Gray Partnership for livestock watering and trapping. Comprises a windmill, corral, cement trough and adjacent jacal-ramada built and lived in for a time by Hocker (Hocker).
? Removed 1977

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance**

2. **Protection and Use** See attached note by Bill Brown.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/13/68

3. Hocker Well

A cowboy and border patrol camp dating from the time Ike Hocker drilled the well (ca. 1930). Now used by Bobby Gray on grazing lease. This site is similar to Pozo Salado, with well, troughs, and windmill. But it also has an interesting jacal with an arched stone fireplace. If this jacal could be retained, in association with the well and surrounding tress, it could be the goal of an interesting side trip from Quitobaquito.

Historic sites & structures Rpt
Wm Brown
Regional Historian

Stone fire place cabin in 1938?
ML

ORPI 7/68

WATER SOURCE REPORT
PERIODIC CHECK

CAMERA

Name of Water Source _____

Date 1/20/70	Observer	Amt. of Water or Rate of Flow	Remarks (Include past & present weather conditions: wildlife use)
1. Quitobaquito		depth	
2. Levy well?			
3. Burro Spring			
4. Hocker well	windmill, corral	- OK	
	ramada, cement trough		
5. Aguajita Sp.	corral	- 4" at base pool	
6. Williams Sp.	concrete trough to tank, fence	- 14-15"	
7. Montgomery well	- cement lined		
8. Jenkins well			
9. Oldham well			
10. Cornerwell	-	- broken. gitch	

MONTGOMERY WELL

WA

PHOTO PAGE 42 & 43
H. M. & W. BOOK

Name of Water Source: I

Quadrangle Quito-baquito **T.** 17S **R.** 8

Photos Yes **Sketch** NO **Rec**

NOW FENCED

Access Route: ~~Approx 100 yds~~ took off side of road behind a mesquite

BM 1147

Terrain: Flat.

Ground Cover: Overgrazed. Crec

Flow: Past (date) Dry

Depth 3'6" **Diam Length** 12' **Width**

Brief History: Dug or contracted general merchandize store near we purchases between Santo Domingo & a lg. store in Ajo.

Present Development and Human Use:

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Location, dates and influence of store should be researched.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/24/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Levy Well

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1110 **ft. Map Scale** 1:62500

Photos Yes **Sketch** NO **Recorded on Map** Yes

took for concrete floor of store

Access Route: ~~Approx 100 yds~~ east of Aguajita Wash ~~and 15 yds on south side of road behind a mesquite thicket~~.

Terrain: Flat.

Ground Cover: Overgrazed. Creosotebush, club cholla.

Flow: Past (date) Dry **Present** _____

Depth 3'6" **Diam** ~~Length~~ 12' **Width** _____ **Storage** none **gals. (estimated)**

Brief History: Dug or contracted my M. G. Levy to supply a small general merchandize store near well. Store was a focal point for purchases between Santo Domingo & Sonoyta. Levy later established a lg. store in Ajo.

Present Development and Human Use: None.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** Location, dates and influence of store should be researched.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/24/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Montgomery Well

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1160 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From the Quitobaquito jct. drive north .4 mile, then turn at 42x43 marking BM, right and drive primitive road northeast for .4 mile (past Jenkins collapsed well) to Montgomery well on right side of rd. in thicket of mesquite trees.
Terrain: Flat, small small arroyos branching from lg. Aguajita Arroyo.

Ground Cover: Over grazed, mesquites common due to proximity to broad Ajuajita Arroyo.
Flow: Past (date) None **Present** Dry

Depth 18.5' **Length** ____ **Width** 4 ft. **Storage** dry **gals. (estimated)**

Brief History: Dug by Al Jenkins in 1936-37 for Elmer Montgomery at the former's suggestion. Well is lined with cement (still extant). Forms were corregated tin using wagon wheels for spacing. Elmer Montgomery was the uncle of Robert Montgomery, American-Mexican mechanic in Sonoyta.

Present Development and Human Use: Well partially covered by timbers. No sign of recent use.

Wildlife Use: None, dry.

Remarks & Recommendations:
1. **Development and Maintenance** None

PHOTO: PAGE 42 & 43 HAZARDOUS MINE & WELL BOOK UPDATED MARCH 78 BM 1147

2. **Protection and Use** None. FENCED

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/17/68

4-4-78

ORPI 7-68

JENKINS WELL
ACCORDING TO BOBBY
GRAY, LIFETIME RESIDENT
3200' N. OF AQUAJITA
SPRING, AT OEND OF
DIRT ROAD WHICH LEADS
FROM SENIC LOOP RD.
ABOUT 4' DEEP
CAVED IN COMPLETLY
DEPRESSION ABOUT
10' ABOUT 2½ FT. DOWN

t. Map Scale 1:62500

north .3 mile & turn right
ell on right side of road.
3200'N AQUA
ajita Wash nearby.

one **gals. (estimated)**

before digging Montgomery
gomery to settle there with
rk for highway dept.
nearby gold mine and

Recreation Development and Human Use: None

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/17/68

4-4-78

JENKINS WELL

ACCORDING TO BOBBY GRAY, LIFETIME RESIDENT 3200' N. OF AQUANITA SPRING, AT END OF DIRT ROAD WHICH LEADS FROM SENIC LOOP RD.

ABOUT 4' DEEP

CAVED IN COMPLETLY

DEPRESSION ABOUT 10' ABOUT 2½ FT. DOWN

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Jenkins Well

Quadrangle Quito-baquito **T.** 17S **R.** 8W **Elevation** 1160 **ft. Map Scale** 1:62500

Photos Yes **Sketch** NO **Recorded on Map** Yes

Access Route: From Quitobaquito jct. drive on PBD north .3 mile & turn right on primitive road & drive .1 mile to collapsed well on right side of road. Montgomery Well is .4 mile beyond on same road. 3200'N AQUA
Terrain: Flat. Several small arroyos & large Aguajita Wash nearby.

Ground Cover: Overgrazed. Mesquites in area.

Flow: Past (date) Dry **Present** _____

Depth 4 ft. **Diam. ~~Length~~** 15 ft. **Width** _____ **Storage** None **gals. (estimated)**

Brief History: Dug by Al Jenkins & Jim Orosco just before digging Montgomery Well, in 1936 or 37. Jenkins persuaded Elmer Montgomery to settle there with his well nearby (.4 mile). Montgomery left to work for highway dept. Jenkins lived a short time at the well, worked a nearby gold mine and died of cancer in 1939.
Present Development and Human Use: None

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/17/68

ORPI 7/68

WATER SOURCE REPORT

Name of Water source Oldham Well

Quadrangle Quitobaquito **T.17 S R. 8 W** **Elevation** 1,960 **Ft.**

Access Route From road crossing at Aguajita Spg. or AMD-Quito. jct. walk northeast beyond Aguajita Wash; walk behind (north of) small hill and note shallow, almost covered well.

Terrain Generally flat, except for broad, shallow Aguajita Wash.

Ground Cover Overgrazed; few mesquites and smoke trees about wash.

Flow Past (Dates)

Depth (Max) diam.
Length 10 **Ft./ Width** **ft.** **Storage** **gals.** (estimated)

Brief History Geo. ("Shorty") Oldham notes his father, W. T. Oldham built a store at the well in 1920. Coffee, beans, flour, sugar, tobbaco, matches & a few clothes were sold. Well by store owned in 1919 by Three-fingered Jack Wright & Newt Meadows who sold to Williams (probably Frank). Johnny Johnson dug original well & built "mud" house there in 1919. Remained until "scared out" by Wright.
Present Development and Use None

Wildlife Use Dry

Remarks & Recommendations
1. Development & Maintenance None

2. Protection & Interpretation Only of minor interpretive (historical) interest.

AGUA DULCE

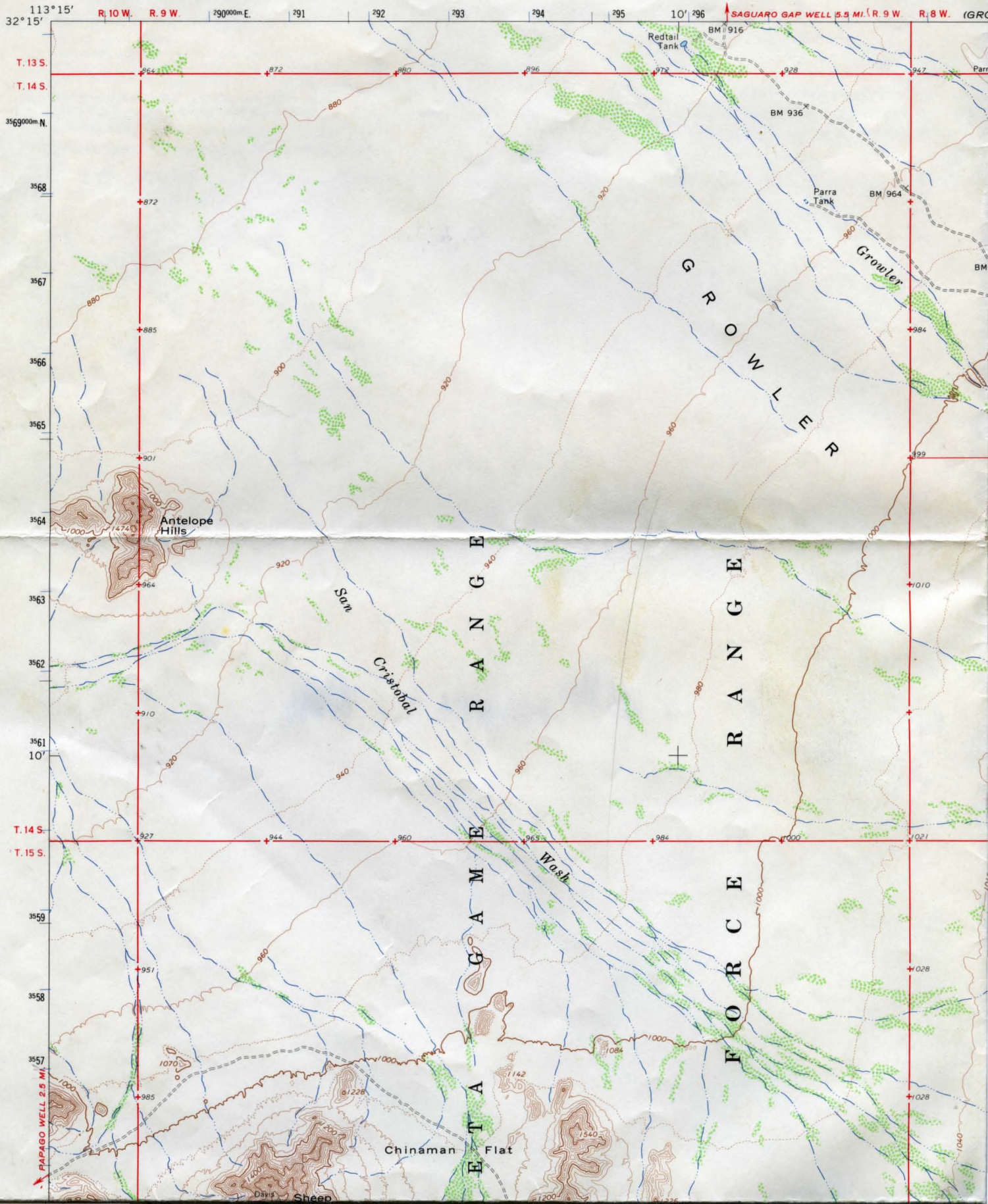
SHELF FILE CHARGEOUT RECORD (Letter Size)

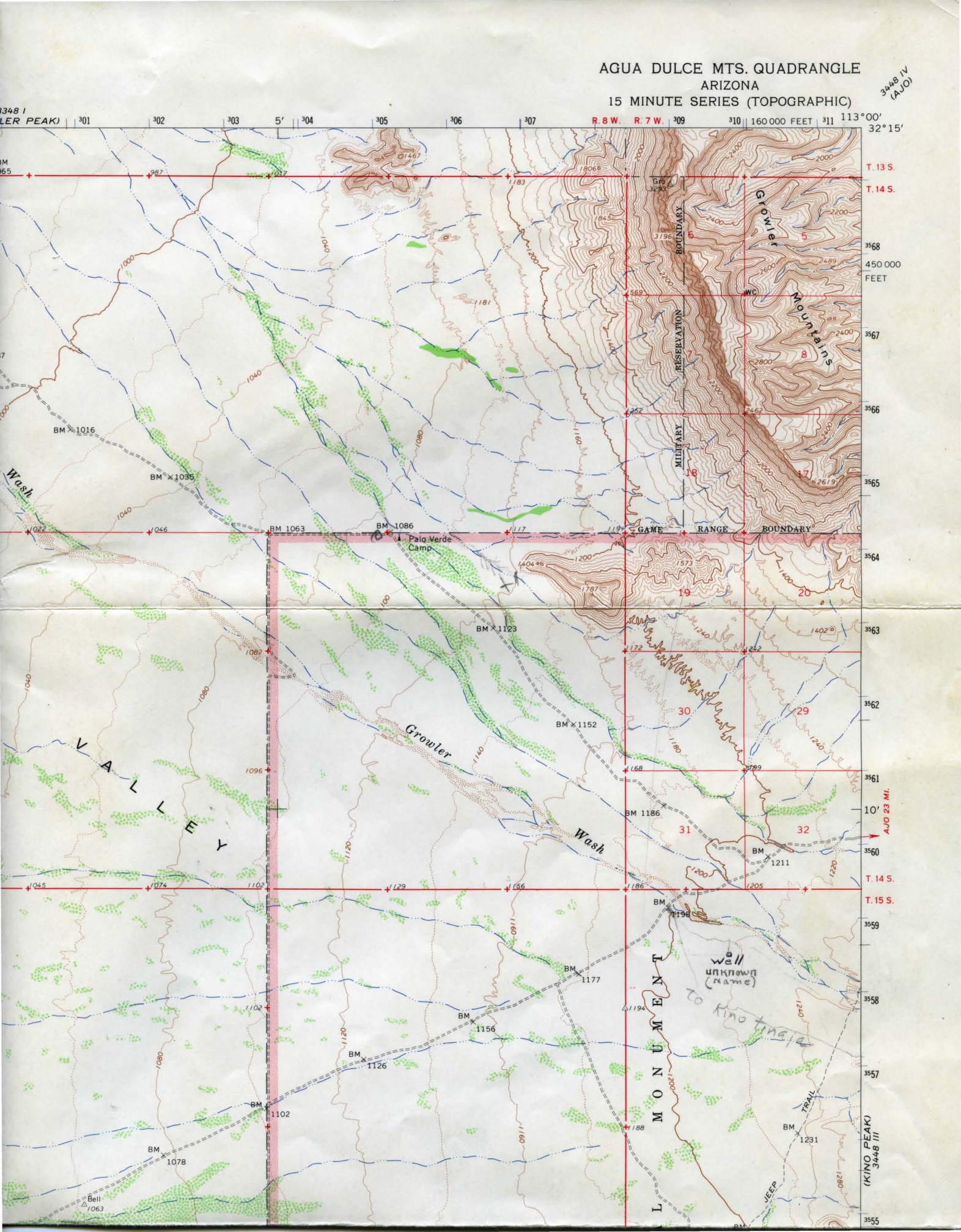
Wells: Pozo Nuevo
Powers Well
South Well
Cipriano Well

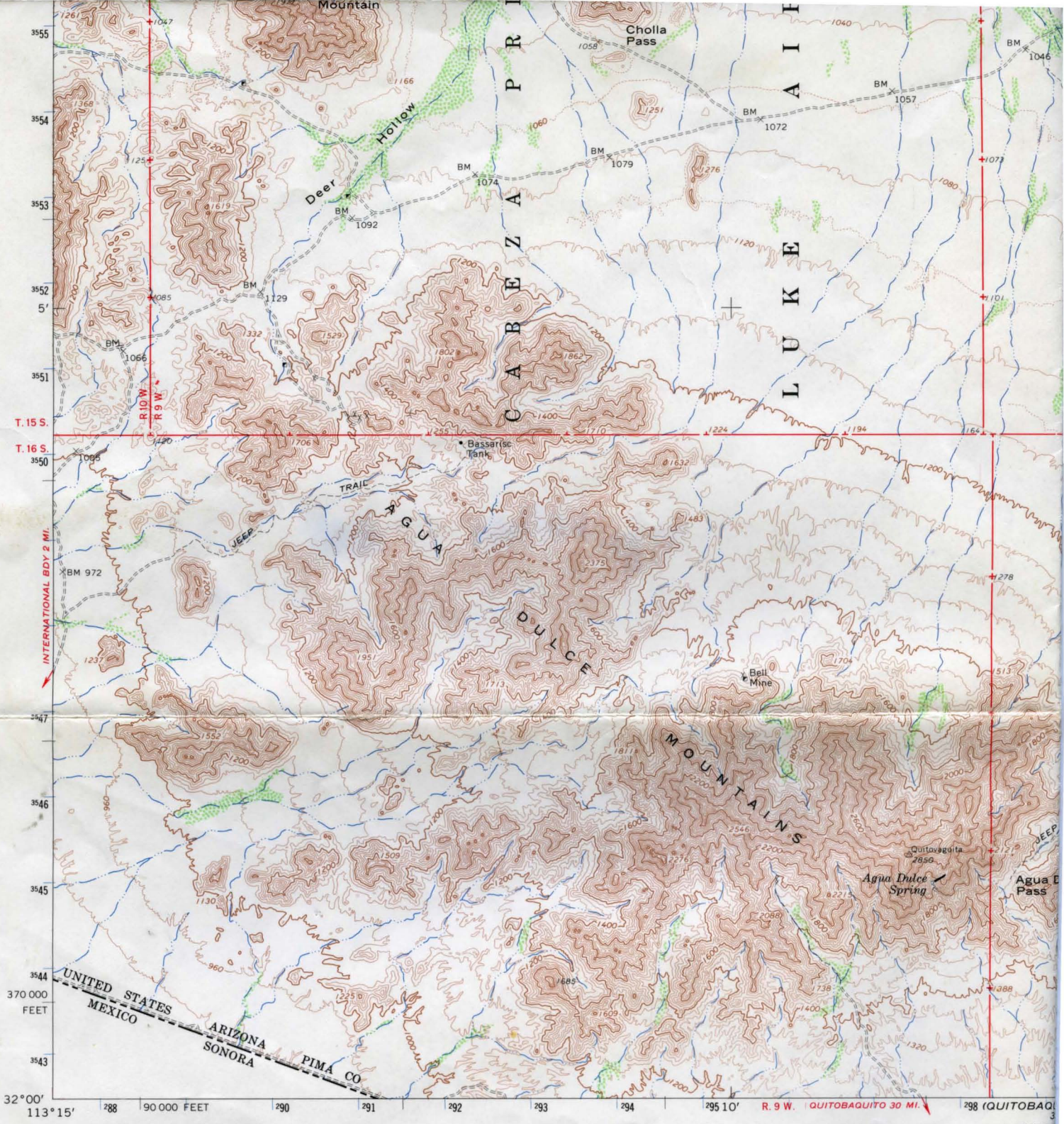
AGUA DULCE



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY




AGUA DULCE MTS. QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)
3448 IV (AJO)
3448 I (LER PEAK)
R. 8 W.
R. 7 W.
160 000 FEET
113°00'
32°15'
T. 13 S.
T. 14 S.
T. 15 S.
450 000 FEET
BOUNDARY
RESERVATION
MILITARY
GAME RANGE BOUNDARY
Growler Mountains
Growler Wash
VALLEY
MONUMENT
Palo Verde Camp
BM 1016
BM 1035
BM 1063
BM 1086
BM 1123
BM 1152
BM 1186
BM 1211
BM 1198
BM 1177
BM 1156
BM 1126
BM 1102
BM 1078
BM 1231
Well unknown (name)
to Kino trail
TRAIL
JEEP
AJO 23 MI.
(KINO PEAK) 3448 III
Bell 1063



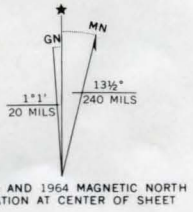
Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1964

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

Where omitted, land lines have not been established



UTM GRID AND 1964 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE

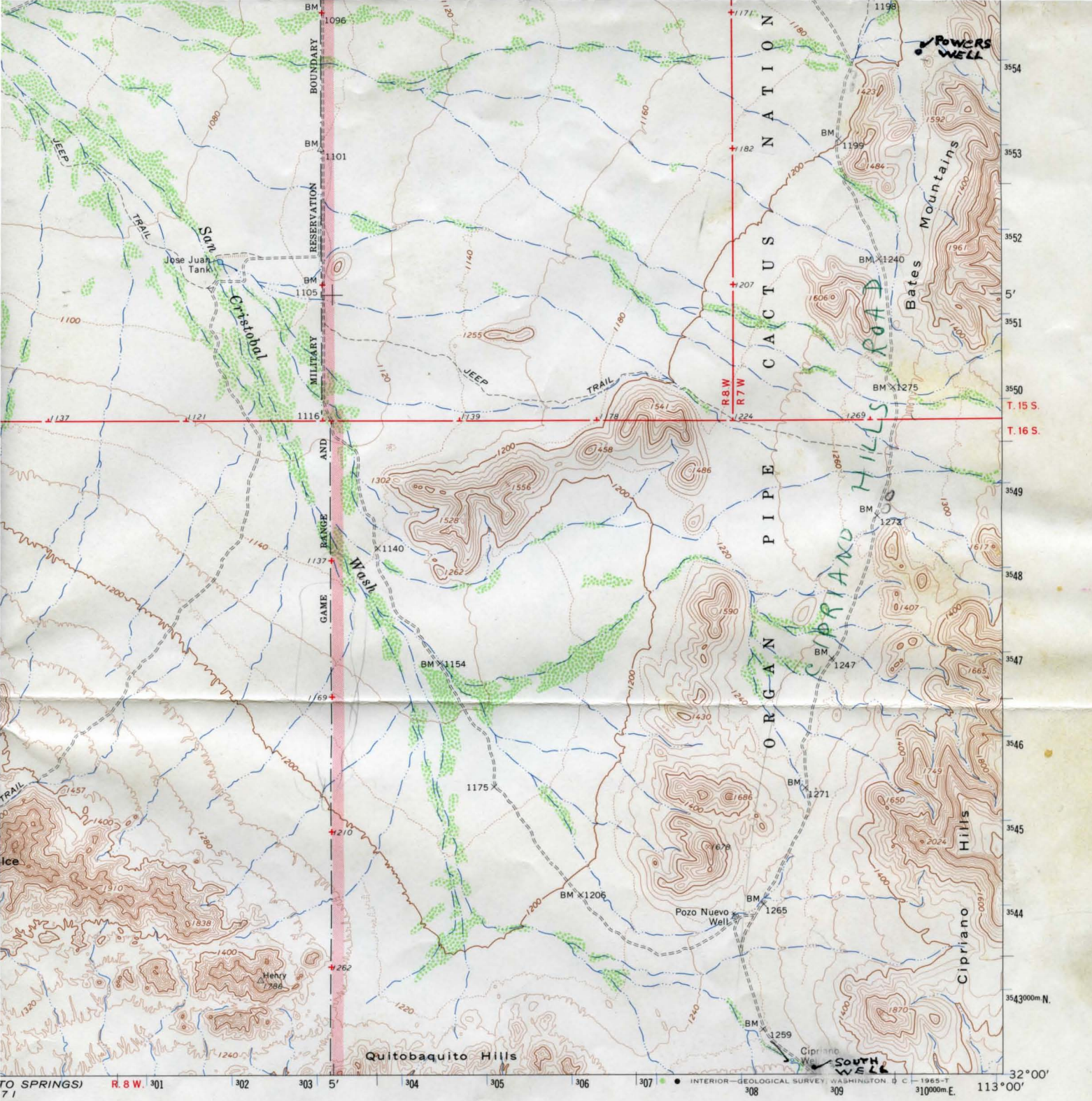
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3000 0 3000 6000

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CONTOUR IN
DOTTED LINES REPRE
DATUM IS N

THIS MAP COMPLIES WITH NA
FOR SALE BY U. S. GEOLOGICAL SURVEY, DE
A FOLDER DESCRIBING TOPOGRAPHIC MA



TO SPRINGS)
71
:62500

2 3 4 MILES
00 12000 15000 18000 21000 FEET
3 4 5 KILOMETERS

RVAL 40 FEET
NT 20-FOOT CONTOURS
N SEA LEVEL

NAL MAP ACCURACY STANDARDS
ER 25, COLORADO OR WASHINGTON 25, D. C.
AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Unimproved dirt



QUADRANGLE LOCATION

AGUA DULCE MTS., ARIZ.

N3200—W11300/15

1964

AMS 3348 II—SERIES V798

(LUKEVILLE)
3447 IV

4-21-72

Pozo Nuevo

Photo in H M & W Book
Page 37-38

4-6-78

POZO NUEVO
DRILLED AUGUST 1963
JOSE JUAN 1924
60' FT. NORTH DRILLED
1903 BY HENRY GRAY

MAINT PULLED WELL
1-22-78 168 FOOT
PIPE WATER 127 FEET

Form 10-445
(5/62)

HISTORIC AMERICAN BUILDINGS SURVEY
INVENTORY

1. STATE Arizona
COUNTY Pima
TOWN VICINITY Organ Pipe
STREET NO. Cactus National Monument

ORIGINAL OWNER Jose Juan Orosco ~~R. L. Gray~~
ORIGINAL USE Line-camp shelter
PRESENT OWNER ORPI
PRESENT USE ~~Abandoned~~ Seasonal use
WALL CONSTRUCTION Pole-and-plank
NO. OF STORIES One

2. NAME Pozo Nuevo Jacal

DATE OR PERIOD 1920s
STYLE Mexican Border
ARCHITECT } Unknown Jose Juan Orosco
BUILDER } Henry Gray

3. FOR LIBRARY OF CONGRESS USE

4. NOTABLE FEATURES, HISTORICAL SIGNIFICANCE AND DESCRIPTION OPEN TO PUBLIC

Significant as an exemplar of jacal construction at ORPI.
A CC structure.

This is a one-room jacal shelter about 12 x 15 feet outside dimension. Walls are constructed of salvaged timbers, planks, mesquite logs, and poles. The roof is of earth.

The jacal suffers from neglect and needs stabilization or it will fall down one day.

These seasonally occupied structures (jacals) are of the most catch-as-catch-can construction. Each year the cowboys repaired them until they were just adequate for shelter. Once neglected, they disappear fast. Thus they fall into that category of long-gone temporary structures, of which there are few if any examples. It would be a good thing to save one of these undistinguished, but very necessary utilitarian shelters.

5. PHYSICAL CONDITION OF STRUCTURE Endangered Interior Exterior

6. LOCATION MAP (Plan Optional) See ORPI Historical Base Map

7. PHOTOGRAPH Attached

8. PUBLISHED SOURCES (Author, Title, Pages)
INTERVIEWS, RECORDS, PHOTOS, ETC.

None.

9. NAME, ADDRESS AND TITLE OF RECORDER
Regional Historian William E. Brown
Southwest Regional Office
National Park Service
Santa Fe, New Mexico

DATE OF RECORD April 1967

SUPPLEMENTAL INFORMATION AND PHOTOGRAPHS MAY BE ADDED ON SHEET OF SAME SIZE

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Jose Juan Well (Juan's Well, Pozo Nuevo)

Quadrangle Agua Dulce **T.** 16S **R.** 8W **Elevation** 1265 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: Drive ± 4 mi. north from Cipriano Jct. on Puerto Blanco Dr. to jct. where "interior" and "boundary" roads continue on separate routes to the north.

Terrain: Generally flat except for unnamed hills just north of the well.

Ground Cover: Overgrazed, mostly creosotebush.

Flow: Past (date) 4 gpm (1958/ during drilling. **Present** Less that in 1958.

Depth 175' **Length** ____ **Width** ____ **Storage** ____ **gals. (estimated)**

Brief History: Dug by Jose Juan Orozco ± 1908 (H. Gray) Sells-1910 - Files-1924 and used by him for watering cattle out of the Quitobaquito area. Not Bonito? Henry Gray purchased well from Jim Orosco in fall of 1951. During Orosco use water drawn from well by a windlass and poured into a trough. Henry Gray built windmill. Evidently a weak well going dry in drought seasons. (Supernaugh)

Present Development and Human Use: SPECIAL USE PERMIT. Continues to be used by Henry Gray for watering and trapping cattle. Present development a tin shack, a wooden jacal, corral and windmill. A new well drilled Henry Gray after consderable misunderstanding, 60' from old well.

Wildlife Use:

Remarks & Recommendations:

1. **Development and Maintenance**

2. **Protection and Use** Good illustration of a border line-camp and jacal. Should be protected and stabalized (w/ permission of H. Gray) for possible use as an interpretive site. (See ~~attached~~ Historic Sites and Structures Inventory)

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/13/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Jose Juan Well (Juan's Well, Pozo Nuevo)

Quadrangle Agua Dulce **T.** 16S **R.** 8W **Elevation** 1265 ft. **Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded** 4-21-72

POZO NUEVO

PHOTO IN H M & W BOOK
PAGE 37-38

4-6-78

POZO NUEVO
DRILLED AUGUST 1963
JOSE JUAN 1924
60' FT. NORTH DRILLED
1953 BY HENRY GRAY

MAINT PULLED WELL
1-22-78 168 FOOT
PIPE WATER 127 FEET

2. **Protection and Use** Good illustration of a border line-camp and jacal. Should be protected and stabalized (w/ permission of H. Gray) for possible use as an interpretive site. (See attached Historic Sites and Structures Inventory)

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/13/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Powers Well

Quadrangle Agua Dulce **T.** 16S **R.** 7W **Elevation** 1360 **ft. Map Scale** 1:62500

Photos no **Sketch** No **Recorded on Map** yes

Access Route: From Cipriano Jct. on PBD drive a short distance north of Cipriano Well, ~~but short of~~ beyond Pozo Nuevo and walk east into flat broad valley leading into ~~Cipriano Hills~~ Bates mts. Well is in mouth, towards center.

Terrain: Flat,

Ground Cover: Over grazed; miscl. plantlife.

Flow: Past (date) Dry 1912-15 **Present** dry 3/5/71 rgd

Depth 150'/ 135'-1917. **Length** 3' sq. **Width** 3'sq. **Storage** dry **gals. (estimated)**

Brief History: Dug by Fred Powers about 1915-16. Bryan notes in 1917 well dry while Cipriano & Lewis had water; Powers apparently drains away thru lava or alluvium to Growler Valley water table.

Present Development and Human Use: Well lined w/ mesquite logs; no collar. Large platform w/ stone walls ± 2 ' high, about 20X10 yds sq. Bryan reports in 1917 that well was "admirably located" but dry, possibly due to drainage through bottom of valley. A sm. corral is reportedly south against valley wall a short distance.

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None

2. **Protection and Use** None

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/20/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Pozo de Cresesio Leon ~~Well~~ (South Well)

Quadrangle Agua Dulce **T.** 16S **R.** 7W **Elevation** 1260 **ft. Map Scale** 1:62500

Photos _____ **Sketch** _____ **Recorded on Map** Yes

Access Route: Same as for Cipriano well (see), but lies ± 160 yds southeast of Cipriano Well across the road next to a fallen lean-to.

Terrain: Same as for Cipriano Well

Ground Cover: Same as for Cipriano Well

Flow: Past (date) _____ **Present** dry, filled.

Depth 1½8 **Length** 8' **Width** 8' **Storage** none **gals. (estimated)**

Brief History: Dug by C. Ortega. A man named Munoz married Bartolo's Ortega's daughter & lived at (near) Cipriano Well; kept few cows. Cipriano gave to his brother Bartolo who gave it to His daughter & Munos after their wedding. In 1917 K. Bryan well 57' deep, 55.6' to water.

Present Development and Human Use: Near depression is a primitive lean-to or jacal of mesquite & ocotillo surroundings by scatterings of tin, bottles, cookware, etc. indicated a former simple habitation (Leon or Munoz?)

Wildlife Use: None

Remarks & Recommendations:

1. **Development and Maintenance** None, except scattered litter could be cleaned up.

2. **Protection and Use** Should be located & ~~located~~ described for minor historical purposes. Munoz of Sonoyta should have further info., & should be interviewed.

Observer-Compiler Bill Hoy **Title** seas. Ranger **Date** 7/12/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Cipriano Well (north well)

Quadrangle Agua Dulce **T.** 16S **R.** 7W **Elevation** 1260 **ft. Map Scale** 1:62500

Photos yes **Sketch** no **Recorded on Map** yes

Access Route: From Cipriano Jct. on Puerto Blanco Drive drive north over Cipriano Pass and down into next valley a short distance. C. Well is easily seen on right side of road.

Terrain:

Broad, gentle, somewhat rolling valley. Arroyo on west side of well.

Ground Cover:

Overgrazed by Gray cattle. Creosote and miscl. cactus dominant plants.

Flow: Past (date) _____ **Present** _____

Depth + 30' **Length** 15' **Width** 15' **Storage** _____ **gals. (estimated)**

Brief History: Hand dug by Mexican haciendo owner Cipriano Ortega in late 1800's. Later owned by Jose Juan Orosco. In 1917 geologist Kirk Bryan found well 57' deep 55.6 ' to water. Used only as corral and watering place. Reportedly used by Carlos Serventi for a short time.

Present Development and Human Use: No NPS use or development. Fence placed around well for safety. Current use is historical only. Well is dry, flared at top; may have been lined in the past due to good condition of well. See Historical sites and structures survey report in ORPI library.

Wildlife Use:

None

Remarks & Recommendations:

1. **Development and Maintenance** Not practical, although preservation for historical purposes might be considered.

2. **Protection and Use** Protection for historical interpretation i.e., a northern point of influence of Cipriano Ortega.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/12/68

4-5-78

CIPRIANO WELL

WATER SOU

PHOTO H.M. & W. BOOK PAGE ____?

Name of Water Source: Cipriano We
Agua
Quadrangle Dulce **T.** 16S **R.** 7W **E**

Photos yes **Sketch** no **Recorded**

Access Route: From Cipriano Jct. or
Cipriano Pass and down into next va
easily seen on right side of road.
Terrain:
Broad, gentle, somewhat rolling val
Ground Cover:
Overgrazed by Gray cattle. Creosot
Flow: Past (date) ____

Depth + 30' **Length** 15' **Width** 1

Brief History: Hand dug by Mexican l
late 1800's. Later owned by Jose J
Bryan found well 57' deep 55.6 ' to
watering place. Reportedly used by

ML

Present Development and Human Use:
placed around well for safety. Current use is historical only. Well is dry, flared at top; may have been lined in the past due to good condition of well. See Historical sites and structures survey report in ORPI library.
Wildlife Use:
None

Remarks & Recommendations:

1. **Development and Maintenance** Not practical, although preservation for historical purposes might be considered.

2. **Protection and Use** Protection for historical interpretation i.e., a northern point of influence of Cipriano Ortega.

Observer-Compiler Bill Hoy **Title** Seas. Ranger **Date** 7/12/68

CPGR-PIR

Tinajas: Tule Tank
Jose Juan Tank

Springs: Agua Dulce Spring

Wells: Corner Well
Papago Well
Tule Well
Wallis Well
Miller Well
Indian Well

[redacted]

For additional information on the CPNR see:

Simmons, Hilah
1965 The Geology of the Cabeza Prieta Game Range
ORPI library

Archeological Survey of CPNR
by Dr Bernard Fontana 1965

not a permanent source

ORPI 7/68

WATER SOURCE REPORT

Name of Water source Tinaja olla

Quadrangle Mt. Ajo T. 16 S R. 5 W Elevation 2,480 Ft.

Access Route From post # 8 or Canyon Diablo Picnic area walk north towards ridges bearing right into right (easternmost) drainage under dark brown walls. At drainage, scramble up left and around cut to shelf. Tinaja is under a lone saguaro on lip above drainage. 22 ft. No signs of being a permanent source

Terrain Complex of drainages with the large Diablo Arroyo being dominant. Rock is generally bad and contains numerous small caves. Tillitson peak is behind (north) the broken series of ridges.

Ground Cover The usual legume-type plant is encountered in the arroyo vicinity.

Flow Past (Dates)

Depth (Max)

Length 10 Ft. Width 3 ft. Storage gals. (estimated)

Smaller tinajas are located just above and below larger one.

Brief History Discovered in Dec., 1968 by seasonal naturalist Bill Hoy and Marina Stiefel while seaching for an Indian olla (pot). 5/27/71 dry as well

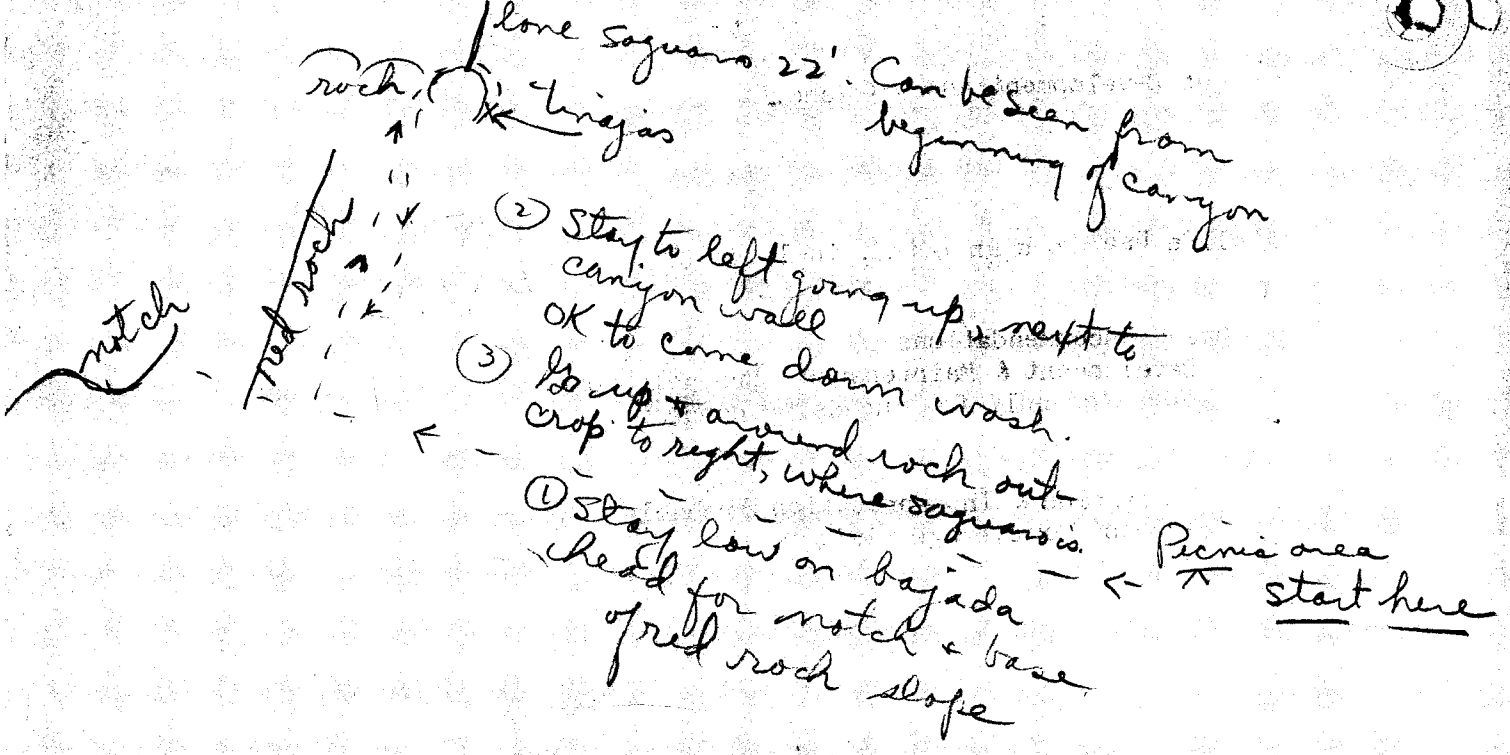
Present Development and Use None.

Wildlife Use No sign noted, incl. cattle.

Remarks & Recommendations

1. Development & Maintenance Probably none. Tinaja could be deepened only few inches by concrete.

2. Protection & Interpretation Probably none due to difficulty of access for average visitor.


lone saguaro 22'. Can be seen from beginning of canyon
rock
hiajas
notch
red rock
(2) Stay to left going up, next to canyon wall
OK to come down wash.
(3) Go up + around rock outcrop to right, where saguaro is.
(1) Stay low on bajada
Picnic area
start here
head for notch + base of red rock slope

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Papago Well
O'Neill
Quadrangle Hills **T.** 15S **R.** 10W **Elevation** 909 **ft. Map Scale** 1:62500

Photos _____ **Sketch** _____ **Recorded on Map** yes

Access Route: From Jose Juan Well drive west & north to CPGR gate or from Bates Well drive west to same gate. Continue on long, sometimes bad road to Well located on south side of road.
Terrain: Flat, Agua Dulce Mts. to the south, located in wash jct. area.

Ground Cover: Creosote-bursage.

Flow: Past (date) _____ **Present** _____
to water, 1917.
Depth 225'/ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Drilled as supply water for Papago gold Mine to the southeast. In 1920 well contained a tripod & pulley. A steel cable was drawn thru pulley & attached to sand pump--lowered to water & pulled out by attaching cable to a car. new well drilled by Havins (probably) in 1941.

Present Development and Human Use: Gasoline pump & shed maintained by BSF&W. The present well has been dug and owned by the Havins family. 1,000 gal. tank installed by BSF&W.

Wildlife Use: Miscl. use

Remarks & Recommendations:
1. **Development and Maintenance** Property of BSF&W.

2. **Protection and Use** See above.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/21/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tule Well (Tule Viejo)

Quadrangle Sierra Arrida **T.** 14S **R.** 14W **Elevation** 1174 **ft. Map Scale** :62500

Photos _____ **Sketch** _____ **Recorded on Map** _____

Access Route: From either Quitobaquito or Bates Well drive west into CPGR (using four-wheel drive vehicle). Upon reaching Tule Mts. drive northwest on Camino del Diable for several miles to Well.
Terrain: In lg. basin between Cabeza Prieta mts. & Tule mts.

Ground Cover:

Flow: Past (date) 500 gal/day/ after boundary survey. 120 gal/hr **Present** 120 gal/hr.

Depth 42.8'/ 13' water **Length** _____ **Width** 1917-35' (Bryan) **Storage** _____ **gals. (estimated)**

Brief History: Dug ~~1~~ after 1860 before 1917 (2 wells) by Mexican (possibly C. Ortega)& adobe house built; sold water during Camino travel-gold rush. Cleaned out after boundary survey, 1893 had vile taste. USF&WS developed in 3/41: windmill, cleaned & sealed w/ iron. 100 people attended dedication at well on 3/41. / originally + 30 ft. deep, hand dug.

Present Development and Human Use: Used by BSFW for patrol, & wildlife use. Salty & contains gypsym, harmless but ill-tasting.

Wildlife Use: See above

Remarks & Recommendations:

1. **Development and Maintenance** None, on BSF&W land

2. **Protection and Use** See above

Observer-Compiler Bill Hoy **Title** _____ **Date** _____

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Tule Tank (Tinaja)

Quadrangle Tule Mts. **T.** 11S **R.** 15W **Elevation** 1300 **ft. Map Scale** _____

Photos _____ **Sketch** _____ **Recorded on Map** Yes

Access Route: From Tule Well drive ± 3 miles west & walk ± ¼ mi up wash in south end of Cabeze Prieta Mts. to tank.

Terrain:

Ground Cover:

Flow: Past (date) _____ **Present** _____

Depth _____ **Length** _____ **Width** _____ **Storage** _____ **gals. (estimated)**

Brief History: Formerly used as camping place for Arenenos (Sand Papagos) Called it "otoxakam" (where there is tule). Water in plunge pool at bottom of 1,600 ft. fall.

Present Development and Human Use:

Wildlife Use: Miscl.

Remarks & Recommendations:

1. **Development and Maintenance** BSF&W property.

2. **Protection and Use**

Observer-Compiler _____ **Title** _____ **Date** _____

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Jose Juan Tank (Charco)

Quadrangle Agua Dulce **T.** 15S **R.** 8W **Elevation** 1100 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From Pozo Nuevo drive northwest to boundary & north to gate or from Bates Well drive southwest to boundary & south to gate on unimproved rd. From gate drive ± 1 mile west to tank.
Terrain: flat, located on San Cristobal wash, mesquite in drainage area.

Ground Cover: Mostly creosote-bursage; mesquite in drainage area.

Flow: Past (date) _____ **Present** _____

Depth 20' **Length** 200' **Width** 200' **Storage** _____ **gals. (estimated)**

Brief History: A natural depression or charco deepened & damed by Jose Juan Orosco, John Cameron & Tom Childs. In 12/56 BSF&W used equipment to improve the tank to its present demensions. Fenced by cattle proof fence. Purpose of tank is to provide water for CPGR wildlife.

Present Development and Human Use: Tank is enclosed by a cattle proof fence designed to allow entrance of wildlife. A large earthern dam impounds the water on the north side.

Wildlife Use: Purpose of tank is to provide water for wildlife; a BSF&W project.

Remarks & Recommendations:

1. **Development and Maintenance** None, BSF&W property

2. **Protection and Use** The tank should be considered for use in bird, ungulate & other wildlife observations, especially during drought periods.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/19/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Agua Dulce (Blue Bird Spring)

Quadrangle Agua Dulce **T.** 16S **R.** 9W **Elevation** 2050 **ft. Map Scale** 1:62500

Photos _____ **Sketch** No **Recorded on Map** Yes

Access Route: From Jose Juan Tank drive south into canyon below Agua Dulce Pass. From pass walk narrow trail west in canyon. May also be approached from the south on boundary road, but correct canyon is difficult to locate.

Terrain: Steep, granite Agua Dulce Mts. with numerous north-south canyons. A fracture spring.

Ground Cover: Lg. mesquite tree at tank.

Flow: Past (date) _____ **Present** _____

Depth 2'± **Length** 3 ft± **Width** 2½' ± **Storage** _____ **gals. (estimated)**

Brief History: Elmer Montgomery & nephew Robert (Ponoyta mechanic) worked mine below spring. Used water from spring carried by two buckets on a stick. Elmer called it the Blue Bird Spg. after a bird he saw there.

Present Development and Human Use: A permanent bamboo blind has been erected above the spg. by the BSF&W for wild life counts. A narrow trails leads to spg. from Agua Dulce Pass (east). A BSF&W concrete lip has improved depth.

Wildlife Use: Probably well-used by variety of wildlife as this source is considerable distance from other water.

Remarks & Recommendations:

1. **Development and Maintenance** None; property of BSP&W.

2. **Protection and Use** Same as above.

Observer-Compiler Bill Hoy **Title** Seas ranger **Date** 7/19/68

ORPI 7-68

WATER SOURCE REPORT

Name of Water Source: Corner (Needmore) Well

Quadrangle ~~Quitobaquito~~ Quitobaquito **T.** 17S **R.** 8W **Elevation** 1000 **ft. Map Scale** 1:62500

Photos Yes **Sketch** No **Recorded on Map** Yes

Access Route: From Quitobaquito cattleguard drive around(south) cattleguard and continue west along boundary to CPGR boundary. Well is immediately inside Game Range in SE corner.

Terrain: Flat

Ground Cover:

Flow: Past (date) Unk. **Present** to water

Depth 105' **Length** 80'/ **Width** **Storage** gals. **(estimated)**

Brief History: ~~Dug~~ Drilled by Jim Havens in ~~late 40's~~ Aug. 1949. Only good well before Tule Well. Use by Havens to water cattle grazing in that part of the Game Range. Called "Needmore" Well because during digging workers were constantly short of money & consequently of materials--they always seemed to"need more" of something. used continously until mar. 1955 when ordered off the range ~~#00~~ compensation.

Present Development and Human Use: No present use; future use depends on decision of Havens family (father now diseased). #00 gal. storage tank & water trough. Water all year.

Wildlife Use: Unk.

Remarks & Recommendations:

1. **Development and Maintenance** No NPS authority here.

2. **Protection and Use** See above.

Observer-Compiler Bill Hoy **Title** Seas. ranger **Date** 7/25/68

WATER SOURCE REPORT

Name of Water source Walls Well, Pozo de Federico.

Quadrangle Mt. Ajo T. 15S R. 3W Elevation 2120 Ft.

Access Route Turn 2½ miles below north boundary on Hwy. 85, 7½ miles to old abandoned Wall's Well, Miller Well, Kuakatch complex. 30 ft. south of road near nw corner of mesquite corral in Kuakatch. Large sandy wash west of development may require four-wheel vehicle.
Terrain Generally flat bisected by large Kuakatch Wash. Hills rise nearby to the south and east.

Ground Cover Typical mesquite & other legume trees, e.g. seep willow, palo verde, etc.

Flow Past (Dates)

Depth (Max) 33 ft. to water; 6 ft. 3 in. of water
Length 4 Ft. Width 3 ft. Storage gals. (estimated)

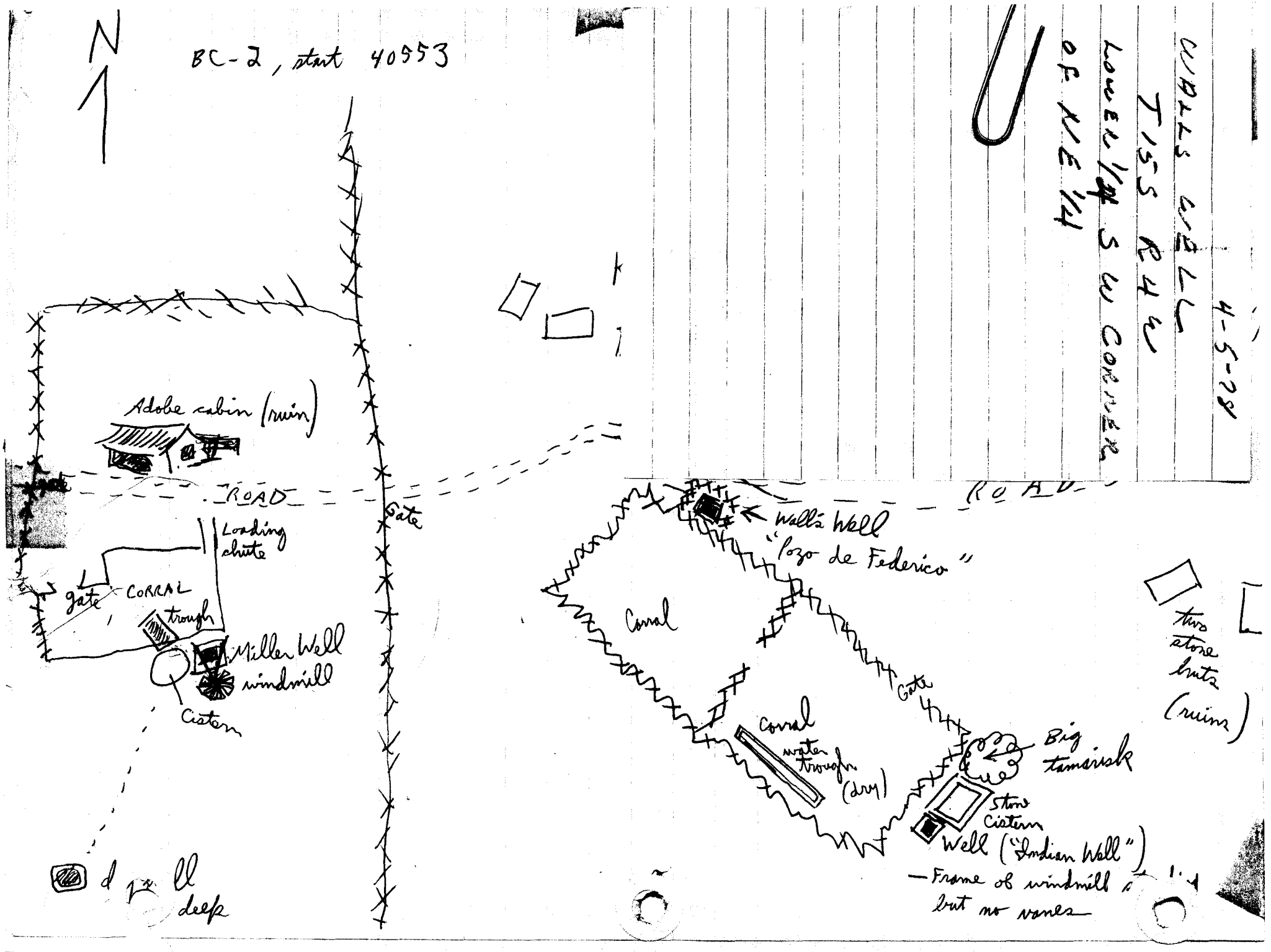
Brief History Dug cir. 1870 by Fredrick Well to supply water for his Growler Mine. At one time on Tucson-Yuma Road. Early dug to ± 46' & 36 ' of water; later drilled to 640' for (Gunsite Mine (?).

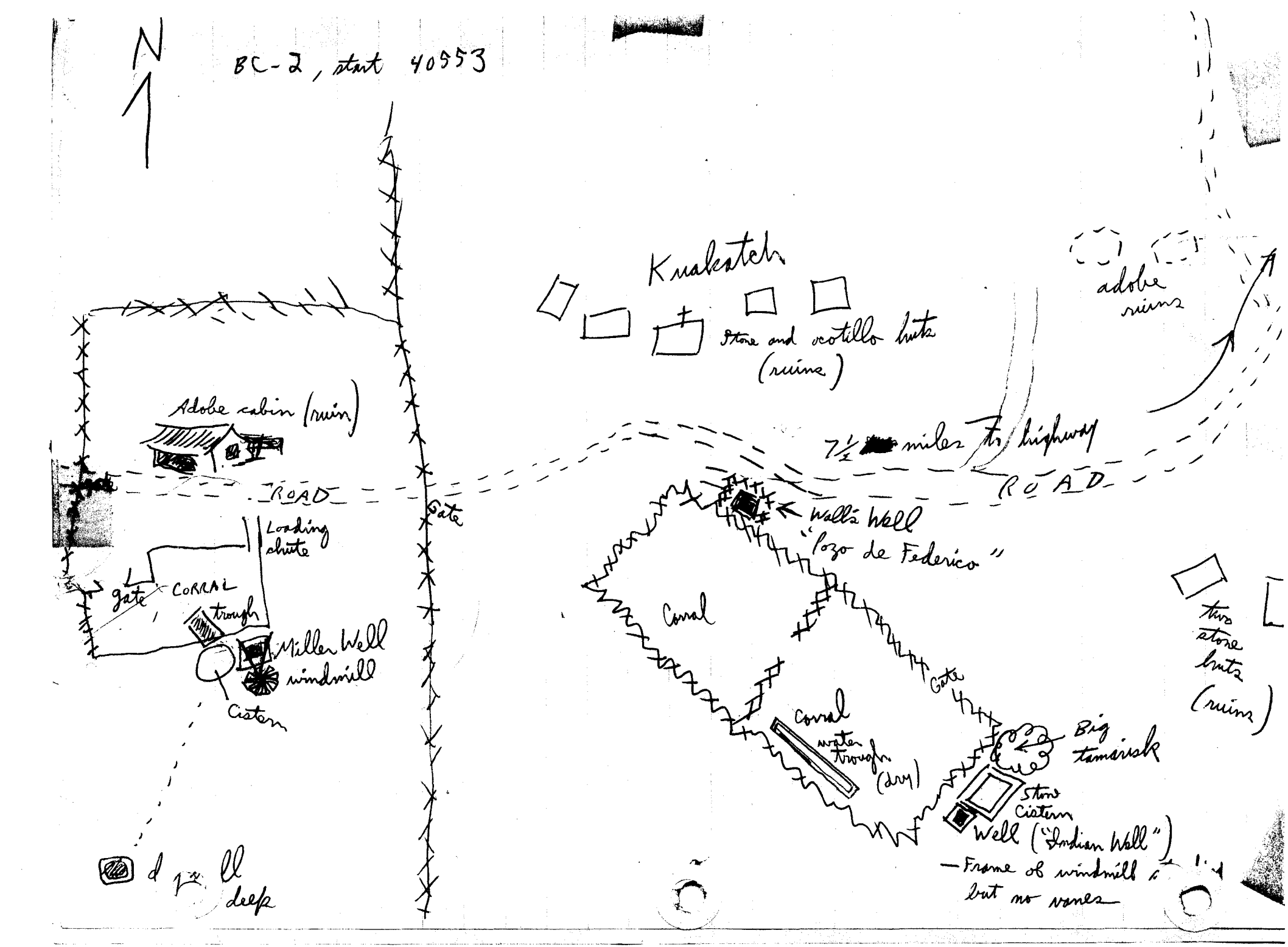
Present Development and Use None.

Wildlife Use None

Remarks & Recommendations
1. Development & Maintenance None

2. Protection & Interpretation Well has only historical value which could be further prusued. Might also be photographed.


N
BC-2, stat 40553
4-5-28
CUBBELLS CORNER
T15S R4E
LOWER 1/4 S W CORNER
OF NE 1/4
Adobe cabin (ruin)
ROAD
Loading chute
gate
CORRAL
trough
Miller Well
windmill
Cistern
Gate
d 2" ll
deep
ROAD
Walla Well
"Pozo de Federico"
Corral
Gate
Corral
water trough
(dry)
Big tamarisk
Stone Cistern
Well ("Indian Well")
— Frame of windmill
but no vanes
two stone huts
(ruins)


N
BC-2, stat 40553
Kwaketch
stone and ocotillo huts
(ruins)
adobe ruins
Adobe cabin (ruin)
ROAD
7½ miles to highway
ROAD
Gate
Loading chute
gate
CORRAL
trough
Miller Well
windmill
Cistern
Walla Well
"Pozo de Federico"
Corral
Gate
Corral
water trough
(dry)
Big tamarisk
stone Cistern
Well ("Indian Well")
—Frame of windmill
but no vanes
two stone huts
(ruins)
d 1st ll
deep

4-5-78

WAT

Name of Water source Mille MILLER WELL

Quadrangle Mt. Ajo T PAGE 52

Access Route See Wall's We HAZARDOUS MINES
Miller corral. Another well & WELLS
was probably also dug by Mil

Terrain See Wall's Well

LAND OWNED BY

Ground Cover See Wall's Well ORPI

Flow Past (Dates)

Depth (Max) 39.5 in. to wate
Length 4 Ft. 3 Width

Brief History Dug cir. 1916 by
Alamo. In 1927 Bill left (div
1927. Birdie deeded rights to
reported 15,000. House burned

M L

Present Development and Use 240 acres in ORPI; 78.5 acres in Reservation, (incl. well). Windmill in use filling trough & storage tank. Area is heavily grazed by Gray cattle. A ruined adobe cabin (jacal) and corral extant.

Wildlife Use

Recommendations

1. Development & Maintenance None; land owned by Leo Aich.

2. Interpretive Improvements None at present due to lack of ownership. Should be considered for future camping and/or historic site.

WATER SOURCE REPORT

Name of Water source Miller Well

Quadrangle Mt. Ajo T. 15S R. 3W Elevation 2120 Ft.

Access Route See Wall's Well. Well located at southeast corner of old Miller corral. Another well south a short distance, 30' deep & dry, was probably also dug by Miller. Both barely in Reservation.

Terrain See Wall's Well

Ground Cover See Wall's Well

Flow Past (Dates)

Depth (Max) 39.5 in. to water; 10' 4" of water
Length 4 Ft. 3 Width ft. Storage gals. (estimated)

Brief History Dug cir. 1916 by Bill & Birdie Del Miller after moving from Alamo. In 1927 Bill left (divorced) Birdie and deeded the site to her in 1927. Birdie deeded rights to Jonathan Investments in 1959 for a reported 15,000. House burned in 1938-39.

Present Development and Use 240 acres in ORPI; 78.5 acres in Reservation, (incl. well). Windmill in use filling trough & storage tank. Area is heavily grazed by Gray cattle. A ruined adobe cabin (jacal) and corral extant.

Wildlife Use

Remarks & Recommendations

1. Development & Maintenance None; land owned by Leo Rich.

2. Additional Interpretation None at present due to lack of ownership. Should be considered for future camping and/or historic site.

OPTIONAL FORM NO. 10
JULY 1973 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : Resource Management Specialist **DATE:** August 12, 1977

FROM : Park Technician

SUBJECT: Wall's Well MILLERS WELL M.L.

On 8-11-77 a check was made of Wall's Well. The following conditions were noted.

1) Five dead cows in Wall's Well coral with 2 new calves which appeared to belong to one of the dead cows.
2) Apx. 4 Ft. section of fence cut out of the coral on north side.
3) Windmill is pumping very little water.
4) N.P.S. boundary fence gate is in very poor condition and was down when checked.
5) No water at the Papago coral.

E. H. Mayer

copy to CRO

5010-110

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

ORPI 7/68

WATER SOURCE REPORT

Name of Water source Indian Well

Quadrangle Mt. Ajo **T.** 15S **R.** 3W **Elevation** 2120± **Ft.**

Access Route See Wall's Well. Located at southwestern end of corral in Kuakatch in Reservation, south of road. May also be reached by driving south on Reservation from Hwy. 86 onto Menager's Dam road.

Terrain See Wall's Well

Ground Cover See Wall's Well

Flow Past (Dates)

Depth (Max) 42 ft. to water, 18' 4" of water (1/10/69)
Length 4 **Ft.** **Width** 3 **ft.** **Storage** **gals.** (estimated)

Brief History Dug by Papago Indians at unknown time for use at Rancheria of Kuakatch, formerly used as Saguaro harvest temporal. Now abandoned and beginning to decay. Church wall has fallen.

Present Development and Use apparently none, abandoned.

Wildlife Use Unknown.

Remarks & Recommendations

1. **Development & Maintenance** None, not located in Mon.

2. **Protection & Interpretation** Probably has minor historical value. Should be photographed with Graphlex.