



WATER-RIGHT DOCKET

Coronado National Memorial

Docket No: 8

FOREST SERVICE WELL (D24-21) 18.

Preliminary Docket Information

05-07-2003: Water Rights Summary

WATER RIGHTS SUMMARY - Coronado National Memorial
 Compiled by William R. Hansen on April 2, 2002; Modified by Alberti April 5, 2002; Modified by Hansen Dec. 20, 2002 and May 7, 2003 (Yellow indicates claims to be withdrawn)
 This Summary was done to evaluate water right use and claims as part of ongoing settlement discussions in the San Pedro River Adjudication and replaces previous evaluations and summaries that may be found in CORO dockets.

Doc No.	WaterSource/Name	San Pedro SOC No.	Date SOC Filed	State Reg. No.	USGS 1/4, 1/4, 1/4	Legal Location 1/4, 1/4, 1/4, Sec. T, and R	Type of Right	Comp. Date	Res/Acq Date	Well Depth	Case Dia	DTW	Pump GPM	Use
01	Brown Allot. Spring.	39-11130	1/4/82	36-11163	AAD	SENESE 17 (24S21E)	Federal	1880	11/10/78	--	--	--	--	S. WL
02	Joe's Spring #3	39-11129A	1/4/82	36-11129	AAD	SENESE 17 (24S20E)	Federal	1880	11/10/78	--	--	--	--	S. WL
03	Tunnel Mine Spring	39-11129B	1/4/82	33-87251	DBD	SENESE 17 (24S20E)	State	12/1/681	3/26/80	--	--	--	--	S. WL
04	Baumkirchner Well #2	39-11130E	1/4/82	35-625138	BCB	NWSWNW 17 (24S21E)	State	1943	3/20/80	86	6	56	35	P. WL F
05	Baumkirchner Well #3	39-11130F	1/4/82	35-625137	BCB	NWSWNW 17 (24S21E)	State	1932	3/20/80	124	6	52	35	P. WL F
06	Brown Allot. Well	39-11130B	1/4/82	35-642742	CDB	NWSWNW 8 (24S21E)	Federal	1946	11/10/78	115	6	85	4	P. S. WL F
07	(aka Coronado #4) Border Well	39-11130C	1/4/82	35-625140	CDD	SESESW 17 (24S21E)	Federal	7/3/75	11/5/52	758	10	624	30	No Use
08	Forest Service Well	39-11130H	1/4/82	35-633159	CDB	SESESW 17 (24S21E)	Federal	?	9/2/60	140.6	5	43.4	--	P. WL F
09	Hazel Well	39-008265	12/29/81	55-629141	BDN	CH. to NWSENE	Federal	?	11/10/78	0	0	0	0	Collap/Dry
10	Headquarters Well	39-11130G	1/4/82	35-633156	BCC	SENESE 17 (24S20E)	State	?	?	?	?	?	?	W/draw
11	Sparks Well #1	39-1113636	4/3/89	35-625139	BCC	SWSWNW 18 (24S21E)	Federal	5/6/59	9/2/60	98	8	44	35	P. WL F
12	Sparks Well #2	39-1113637	4/3/89	35-625638	BBC	SWSWNW 13 (24S20E)	State	11/1/941	1941	28	5 ft	14	15	P. WL F
13	Zaleski Well	39-11130D	1/4/82	35-625639	BBC	SWSWNW 13 (24S20E)	State	1890	1890	365	6 ft	80	0	W/draw
14	Federal Reserved Water Rights	39-11129	1/4/82	See Docket Summary	BCB	NWSWNW 17 (24S21E)	State	?	3/20/80	?	?	?	?	W/draw
15	Montez. Ranch Pond	39-004344	6/13/80	38-004702	ACB	Park Wilds	Federal	--	Many	--	--	--	--	10 AF
16	Montez. Ranch Well SX5	39-004343A	6/13/80	35-640476	ACB	NWSWNE 17 (24S21E)	State	2/28/77	2/298**	330	6	147	25	Adm Use
17	Montez. Ranch Well ACB1	39-004343B	6/13/80	35-640476	ACB	NWSWNE 17 (24S21E)	State	10/20/75	2/298**	330	6	147	25	W. L. F
18	Montez. Ranch Well SX6	39-004343C	6/13/80	35-084460	ACB	NWSWNE 17 (24S21E)	State	6/16/80	2/298**	300	6	150	7	P. WL F
19	Montez. Ranch Well ADC1	39-004343	6/13/80	35-640477	ADC	NWSWNE 17 (24S21E)	State	6/16/80	2/298**	300	3	150	6	P. WL F
20	Montez. Ranch Well X1	39-004343	6/13/80	35-640478	ACB	SWSENE 17 (24S21E)	State	6/30/80	2/298**	330	6	160	25	Dry - W/draw
21	Montez. Ranch Well SX3	39-004343D	6/13/80	35-640479	ACB	NWSWNE 17 (24S21E)	State	6/30/80	2/298**	300	6	150	6	Dry - W/draw
22	Montez. Ranch Well SX1	39-004343E	6/13/80	35-507449	ACB	NWSWNE 17 (24S21E)	State	10/16/84	2/298**	330	6	235	15	P. WL F
23	Montez. Ranch Well ACB2	39-004343F	6/13/80	35-507450	ACB	NWSWNE 17 (24S21E)	State	10/16/84	2/298**	300	6	216	8	P. WL F
24	Montez. Ranch Well X2	39-004343G	6/13/80	35-509098	ACB	NWSWNE 17 (24S21E)	State	10/23/84	2/298**	340	6	215	12	P. WL F
25	Montez. Ranch Well X3	39-004343H	6/13/80	35-509097	ACB	NWSWNE 17 (24S21E)	State	10/31/84	2/298**	320	6	235	35	P. WL F
26	Montez. Ranch Well ABC1	39-004343I	6/13/80	35-509096	ABC	NWSWNE 17 (24S21E)	State	11/6/84	2/298**	340	6	250	--	P. WL F
27	Montez. Ranch Well ACA2	39-004343J	6/13/80	35-509095	ACA	SWNWE 17 (24S21E)	State	11/9/84	2/298**	310	6	250	25	P. WL F
28	Montez. Ranch Well ACA3	39-004343K	6/13/80	35-509094	ACA	NWSWNE 17 (24S21E)	State	2/28/85	2/298**	340	6	250	30	P. WL F
29	Montez. Ranch Well ACA1	39-004343L	6/13/80	35-510144	ACA	NWSWNE 17 (24S21E)	State	3/27/85	2/298**	340	6	246	--	P. WL F
30	Montez. Ranch Well ACA4	39-004343M	6/13/80	35-510143	ACA	NWSWNE 17 (24S21E)	State	3/28/85	2/298**	340	6	250	--	P. WL F
31	Assumes wells on Tract 101-41: SOC - Statement of Claimant; State Registration No. - 33, 36, and 38 forms for surface waters, 55 forms for well registration. T-Township; R-Range. Type of													

Right & Priority Date - Determined by land ownership & date of reservation or purchase; P - Park Administration; S-Stockwater; WL-Wildlife; and F - Fire Suppression.

Notes to File and Action Items

Docket 0001 - SOC 39-8208 w/drawn by Order dated June 2, 1995 - duplicate claim by FS.
 Docket 0002 - SOC 39-8152 w/drawn by Order dated June 2, 1995 - duplicate claim by FS. Assign 36-11205 to NPS from FS.
 Docket 0003 - Change legal from DBC - SWNWSE to DBD - SENWSE per Alberti email dated Feb 26, 2003.

Dockets 4 and 5 - Well registrations 55-633157 and 55-633158 were withdrawn on June 8, 1995 (letter to ADWR) because they were duplicate registrations filed by CORO and the Western Region. Remove stock as a beneficial use on 39-11130 E and F. 39-003608 was withdrawn by the Baumkirchner's on July 1, 1995. Amend NPS SOC 39-11130F (Baumkirchner #3) completion date to 1952 (from 1969).

Docket 0006 - Withdraw 55-642742. Duplicate registration from NPS and FS. SOC 39-8264 withdrawn by Order dated June 2, 1995. Assign 36-11163 to NPS from FS.

Docket 0007 - Withdraw 55-633159 for Coronado Well #4. Duplicate registration filed by CORO and Western Region.

Docket 0008 - Withdraw SOC 39-1130H per instructions from Alberti on Sept. 27, 200 - well collapsed and dry at 21 ft. Incorrect legal - no need to amend because withdrawing claim.

Docket 0009 - Withdraw SOC 39-8265 per instructions from Alberti on Jan 29, 2002 - well never found by NPS. Has Lone Mtn. Ranch withdrawn their claim (39-003748)?

Docket 0010 - Withdraw 55-633156. Duplicate registration filed by CORO and Western Region. Change legal to SWSWNW (BCC) 18 (24S21E).

Docket 0011 - Assign well registration (55-629658) to NPS. Change legal to NWSWSW 13 (24S20E)

Docket 0012 - Withdraw SOC 39-11-13637 per instructions from Alberti on Jan 29, 2002 - well may have been mine shaft which was plugged before acquisition by NPS.

Docket 0013 - Withdraw SOC 39-11130D. Not found by NPS on May 2, 1995 or Jan 29, 2002. Alberti recommends withdrawal on Jan 29, 2002.

Docket 0014 - Change uses to park administration, stock, wildlife, and fire suppression in docket and amend individual claims as necessary.

Docket 0015 - Amend SOC 39-004344 - change purpose from irrigation and stockwater to wildlife for 1 AFY. Amend maximum capacity from 15 to 1 AFY. Amend 38-64702 - change capacity from 15 to 1 AFY and quantity from 30-40 to 1 AFY.

Docket 0019 - Withdraw 55-649479 - Dry! Amend Richards' SOC 39004343 dropping well from claim.

Docket 0020 - Withdraw 55-649478 - Dry! Amend Richards' SOC 39004343 dropping well from claim.

Amend Richard's SOC 39-004343 for Montezuma Ranch well's (13 wells) and SOC 39-0004344 for the stockpond. Completed by letter to ADWR on December 5, 2002.

Do we withdraw 36 claims on 0001, 0002, 0003 when surface water rights recognized as reserved right? When?

Correct addresses on all claims/registrations.

Lone Mountain Ranch - claims of concern in park (55-612472 and 55-612487).

1 GEORGE A. SCHADE, JR.
Special Master
2 Arizona General Stream Adjudication
Arizona State Courts Building, Suite 228
3 1501 W. Washington Street
Phoenix, AZ 85007
4 (602) 542-9600
State Bar No. 003289
5

6 IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

7 IN AND FOR THE COUNTY OF MARICOPA

8 IN RE THE GENERAL ADJUDICATION
OF ALL RIGHTS TO USE WATER IN THE
9 GILA RIVER SYSTEM AND SOURCE

W-1 (Salt)
W-2 (Verde)
W-3 (Upper Gila)
W-4 (San Pedro)
(Consolidated)

11 **Contested Cases Nos. W1-11-556
and W1-11-1132**

13 ORDER AND PARTIAL DECREE OF
STIPULATED WATER RIGHTS IN THE
14 SAN PEDRO RIVER WATERSHED FOR
THE CORONADO NATIONAL MEMORIAL

15 This matter came before the Court on the Final Hydrographic Survey Report for the San Pedro
16 River Watershed (1991) ("San Pedro HSR") and objections to that report; consideration of the San
17 Pedro HSR and objections were referred to Special Master John E. Thorson and, subsequently, to
18 Special Master George A. Schade, Jr.; the Special Masters organized and conducted proceedings in
19 Contested Cases Nos. W1-11-556 and W1-11-1132 involving the water rights of the United States of
20 America appurtenant to the Coronado National Memorial, a federal reservation of land within the San
21 Pedro River Watershed administered by the United States Department of the Interior, National Park
22 Service; certain parties in both contested cases having reached stipulations that were filed on March
23 19, 1996, and on May 2, 2003, as to the water rights in one stockpond, three springs, and twenty wells,
24 to be decreed for the Coronado National Memorial; Special Master Thorson having accepted the

1 stipulation filed on March 19, 1996, and Special Master Schade having accepted the stipulation filed
2 on May 2, 2003; Special Master Schade having filed a report with the Clerk of the Court on May 15,
3 2003, recommending the approval of both stipulated agreements and abstracts of water rights and
4 having served the involved parties and all persons listed on the Gila River Adjudication Court-
5 Approved Mailing List; the Special Master having given claimants in the Gila River Adjudication,
6 pursuant to A.R.S. § 45-257(A)(2), a period of 180 days, or until November 12, 2003, to file an
7 objection to the report, and until December 8, 2003, to file responses to the objections; the Bella Vista
8 Water Company, Inc. and Pueblo Del Sol Water Company (the "Water Companies") having filed an
9 objection; the United States having filed a response; and the Court having considered the report and
10 the objection and being fully advised;

11 THE COURT FINDS that notice of the Special Master's report was given as required by law
12 and prior orders of this Court; the period allowed for filing objections to the Special Master's report
13 was as required by A.R.S. § 45-257(A)(2); the period for filing objections to the report has passed; and
14 the stipulated agreements and abstracts of proposed water rights for the United States of America
15 within the Coronado National Memorial should be approved.

16 THE COURT ADJUDICATES AND DECREES the water rights of the United States of
17 America for the Coronado National Memorial as set forth in the twenty-four abstracts of water rights
18 stipulated by the parties and described in Special Master Schade's report of May 15, 2003.

19 IT IS ORDERED that the twenty-four abstracts of water rights shall be incorporated in the
20 tabulations or lists of all water rights and their relative priorities on the Gila River system and source
21 in the form that the Court shall determine, pursuant to A.R.S. § 45-257(B)(2), to be most appropriate.

22 IT IS FURTHER ORDERED that the dismissals of Statements of Claimant Nos. 39-8265, 39-
23 11130(D), 39-11130(H), and 39-13637 are accepted.

24 IT IS FURTHER ORDERED overruling the objection of the Water Companies.

1 Dated this 9th day of March, 2004.

2
3 /s/ Eddward P. Ballinger, Jr.
4 EDDWARD P. BALLINGER, JR.
5 Judge of the Superior Court

6 A copy of this order is mailed to all parties
7 appearing on the Court-approved mailing
8 list for Contested Cases Nos. W1-11-556
9 and W1-11-1132, dated May 6, 2003, and
10 the Gila River Adjudication Court-
11 Approved Mailing List, Nos. W-1, W-2, W-
12 3, and W-4 (Consolidated), dated October 6,
13 2003.
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CORO - 0008



United States Department of the Interior

NATIONAL PARK SERVICE

Water Resources Division
1201 Oakridge Drive, Suite 250
Fort Collins, Colorado 80525-5596

IN REPLY REFER TO:

May 7, 2003

L54 (2380)
CORO/Water Rights

Ms. Elizabeth Logan, Section Manager
Water Management Support Section
Arizona Department of Water Resources
500 N. Third Street
Phoenix, AZ 85004

Re: Coronado National Memorial - Withdrawal of Well Registrations (55-642742, 55-633156, and 55-633159) and Claims (39-11130D and H, 39-008265, and 39-11-13637); Change of Ownership (36-11163 and 36-11205); and Amendments (39-11130 and 39-004344)

Dear Ms. Logan:

We have recently completed an extensive review of our water rights and adjudication claims for Coronado National Memorial in the San Pedro River Basin as part of settlement discussions with various objectors. Therefore, we request that you make the following changes to our claims.

Please withdraw well registrations 55-642742, 55-633156, and 55-633159 because they are redundant with well registrations 55-629140, 55-629139, and 55-629142. The National Park Service (NPS) inadvertently filed duplicate claims through two separate offices in the 1980's for the same wells.

Please amend 39-11130 by withdrawing our claim to the two wells known as Zaleski Well (39-11130D) and the Forest Service Well (39-11130H). We would also like to withdraw claims 39-008265 and 39-11-13637 which were filed by previous land owners prior to assignment to the NPS. Our file review and field reconnaissance reveal that these wells are either dry, collapsed or non-existent.

Please change the ownership on 36-11163 and 36-11205 in your records from the USDA - Coronado National Forest to the USA - National Park Service - Coronado National Memorial. The Statement of Claimant forms (39's) are already in the name of the Coronado National Memorial. The land and water rights were transferred from the Forest Service to the National Park Service on November 10, 1978 (P.L. 95-625).

Please amend our claims filed for 39-11130 B, E, F, and G (Tunnel Mine Springs, Baumkirchner Wells #2 and #3, and the Headquarters Well) and 39-004344 (Montezuma

Ranch stockpond). We are amending the beneficial use, completion date, and legal locations for 39-11130 and amending the beneficial use, storage capacity and annual volume for 39-004344. The attached Amendments indicate the specifics of each of these changes.

If you have any questions please contact Bill Hansen, on my staff, at (970) 225-3532.

Sincerely,



Charles Pettee
Chief, Water Rights Branch

Cc: Fahmy – SOL
Leininger – DoJ
Alberti – CORO
Callahan – City of Phoenix
Wilmoth – Fennemore Craig
Chandley – Ryley, Carlock & Applewhite
Carla Consoli – Bryan Cave LLP
Lewis – Gila River Indian Community
Ronald – Arizona Attorney Generals Office
Schade – Special Master, Arizona General Stream Adjudication
Sparks – Sparks, Tehan & Ryley, P.C.
Weldon – Salmon, Lewis and Weldon, P.L.C.

NOTE TO FILE

The Forest Service Well was acquired from the Forest Service on September 2, 1960 (PL-86-689). A Statement of Claimant form (39-011130) was filed on January 4, 1982. A Well Registration form (55-629141) was filed on June 9, 1982. A field investigation on May 2, 1995, conducted by Larry Martin, Water Operations Branch, and myself, revealed that the well had collapsed at 40 feet. As shown on the well registration, the original depth of the well was 140.6 feet. Due to the collapse, the well will be backfilled by the park and the claim withdrawn in the San Pedro River adjudication.

Wm. R. Hansen
May 3, 1995

WITHDRAW

CHANGE OF WELL INFORMATION

Registration Number 55 629141

I request the following information be changed in Well File Number D(24-21)18bda

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new) owner of the well described below:

Township _____ Range _____ Section _____, _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$

Registration #55-_____ File No. _____

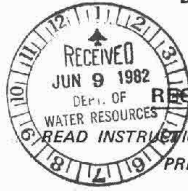
Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.



DEPARTMENT OF WATER RESOURCES
88 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

Declaration: The United States gives this notification to the State in the interest of the United States to the use of water.

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☒
NON-EXEMPT WELL - \$10.00	☐

FOR OFFICE USE ONLY	
REGISTRATION NO. 55-	629141
FILE NO.	D(24-21)18-bda
FILED	6-9-82 AT 1:30
(DATE)	(TIME)
INA	
AMA	

- Name of Registrant:
National Park Service, Western Region, Division of Water Resources
450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
(File Number) 35- (Control Number)
- The well is located within the NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 18 of Township 24 S N/S, Range 21 E E/W, G & SRB & M, in the County of Cochise.
 - If in a subdivision: Name of subdivision _____
Lot No. _____, Address _____
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
unused
- If for irrigation use, number of acres irrigated from well _____
- Owner of land on which well is located. If same as Item 1, check this box ☒

(Address) (City) (State) (Zip)
- Well data (If data not available, write N/A)
 - Depth of Well 140.6 feet
 - Diameter of casing 5 inches
 - Depth of casing 20 feet
 - Type of casing steel
 - Maximum pump capacity N/A gallons per minute.
 - Depth to water 43.4 feet below land surface.
 - Date well completed N/A
(Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☐

Coronado National Memorial - Forest Service Well
Attach additional sheet if necessary.
- DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki
GERARD S. WITUCKI
CHIEF, DIVISION OF WATER RESOURCES

ARIZONA WATER COMMISSION
CENTRAL SECURITY BUILDING
222 N. Central Ave.
Suite 550
Phoenix, Arizona 85004
602-255-1581

Mar. 26, 1985

STATEMENT OF CLAIMANT

(Leave Blank)

IN THE MATTER OF DETERMINATION OF)
RELATIVE RIGHTS TO THE USE OF)
WATERS OF THE SAN PEDRO RIVER AND ITS)
TRIBUTARY WATERSHED, INC. ARAVAIPA CK.)

File No. 39-11130
Filed: _____ at _____ M
(date) (time)

The State Land Department has enclosed with the accompanying Notice this form on which claimant shall present as required, the particulars of his claim of right to the subject waters. All applicable portions must be completed. A separate Statement of claimant must be submitted for each source or point of diversion of public water unless those waters are commingled prior to use. A map published by the United States Geological Survey or a map of equal standard shall be submitted with this Statement showing on the face of the map the particulars of point of diversion, place of use and other pertinent information.

Print or type. If more space is required, use explanatory at end of form, or attachment.)

Name of Claimant: National Park Service, U.S. Government, Department of Interior
(Last) (First) (M.I.)

450 Golden Gate Avenue, Box 36063, San Francisco, CA 94102 (415) 556-8660
(Address, City, State, Zip) (Telephone No.)

State the nature of the right or use on which claim is based: (indicate, and attach supporting documentation)

A. Right to surface water initiated by beneficial use prior to June 12, 1919.
Indicate registry number if previously submitted under Water Rights
Registration Act _____

B. Court Decreed Water Right. Cite Title and Date of Case _____
Cause No. _____ County _____

C. Application for Permit to Appropriate Water filed. State Land Department
Application No. _____, Permit No. _____, Certificate of
Water Right No. _____

D. Claim of Water Right for a Stockpond. State Land Department Application
No. _____ Forest Service Well

E. X Other. Describe: Federal Reserve Water Right - Brown Allotment Spring (Coronado)

A. Date of initiation of right: Nov. 6, 1906 (see explanatory) National Memorial
(Month/Day/Year)

B. Date water first used for beneficial purposes: Nov. 6, 1906
(Month/Day/Year)

Purpose, annual amount and annual period of use: (see explanatory)

Purpose	Amount	Month/Day	Month/Day
Irrigation	_____ ac.ft./gallons	From _____ to _____	
Domestic	_____ ac.ft./gallons	From _____ to _____	
Stockwater	<u>X</u> _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	
Municipal	_____ ac.ft./gallons	From _____ to _____	
Power	_____ ac.ft./gallons	From _____ to _____	
Mining	_____ ac.ft./gallons	From _____ to _____	
Recreation	_____ ac.ft./gallons	From _____ to _____	
Wildlife	<u>X</u> _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	
Other Uses	<u>X</u> _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	

A. (1) If for irrigation purposes, describe place of use: (also indicate on map)
Township (N/S) _____ Range (E/W) _____ Section _____ Legal Subdivision _____ No. of Acres. _____

(2) If land reclaimed over period of years, indicate schedule and amount of
land reclaimed first and each subsequent year(s): _____

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Headquarters Well
- B. Location of Source (indicate on map): 1/4 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: April 13, 1959; Date well placed in use: May 9, 1959.
(Month/Day/Year) (Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SW 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: pump. If pump, list type of pump and capacity: submersible - 10 gpm
 - (5) Casing depth 84 ft. Total well depth 97.9 ft. Diameter of casing 8 inches.
 - (6) Depth to water: 43.8 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: 3.6 X 10⁵ ~~Ac.Ft.~~/Gallons
 - (8) State purpose of use: domestic
 - (9) Indicate annual period of use: Jan. 1 to Dec. 31.
(Month/Day) (Month/Day)
7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Forest Service Well
- B. Location of Source (indicate on map): 1/4 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: unknown; Date well placed in use: unknown.
(Month/Day/Year) (Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NE 1/4 SE 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
 - (5) Casing depth 20 ft. Total well depth 141 ft. Diameter of casing 5 inches.
 - (6) Depth to water: 43.4 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: not presently in use
 - (9) Indicate annual period of use: to .
(Month/Day) (Month/Day)

E. (1) Year construction began: _____.

(2) Year construction completed: _____.

(3) Date water first stored: _____ (Month/Year).

F. If dam, list following:

(1) Construction material: _____

(2) Maximum Length: Top _____ ft.; Bottom _____ ft.

(3) Maximum Width: Top _____ ft.; Bottom _____ ft.

(4) Maximum Height: _____ ft.

G. If diverting works, describe:

Distribution works:

A. If ditch or canal:

(1) Date construction began: _____
(Month/Day/Year)

Date construction completed: _____
(Month/Day/Year)

(2) Length of ditch or canal to first place of use: _____ ft., total
length of ditch or canal: _____ ft.

(3) Top width: _____ ft.; Bottom width: _____ ft.

(4) Grade (slope) of ditch: _____

(5) If ditch or canal owned and/or operated by an association or company or such other entity, list name of association or company or such other entity:

B. If pipeline:

(1) Type: steel (i.e., aluminum, steel, etc.)

(2) Diameter: 1 inches

(3) Length of pipeline to first place of use: 1200 ft. and total length of pipeline: 1200 ft.

(4) Grade (slope) of pipeline: 25%

C. If other, describe:

Enlargement(s) of storage reservoir and/or diverting and/or distributing works

A. Date begun: _____
(Month/Day/Year)

Date completed: _____
(Month/Day/Year)

B. Describe details of enlargement(s):

C. Dimensions of works as originally constructed and as enlarged:

Explanatory

Item 3. This site was authorized for inclusion into Coronado National Memorial on November 10, 1978 as a part of a land transfer agreement with the U.S. Forest Service. This portion of Coronado Nat'l Mem. was originally reserved as a part of the Huachuca Forest Preserve on Nov. 6, 1906.

Item 4. The National Park Service claims the entire flow from this source for the indicated purposes. The volumetric flow from this source was measured at 2.0 gpm on 8/19/80. The estimated annual flow from this source is (continued on the next page)

Item 7. Pertinent dates for the wells listed on this form are as follows:

Mem. from public domain. Federal Reserve Water Right applies.

from public domain. Federal Reserve Water Right applies.

(continued on the next page)

VERIFICATION

(Claimant-Affiant representative's name)

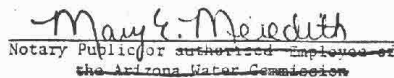
ag first duly sworn, deposes and says; That the affiant, or its duly authorized representative, possesses the knowledge and the authorization to execute this affidavit as to the correctness and truthfulness of the matters set forth in the statement of Claimant", except as to those matters alleged upon information and belief, and as to those matters believes them to be true and correct.

Claimant-affiant signature

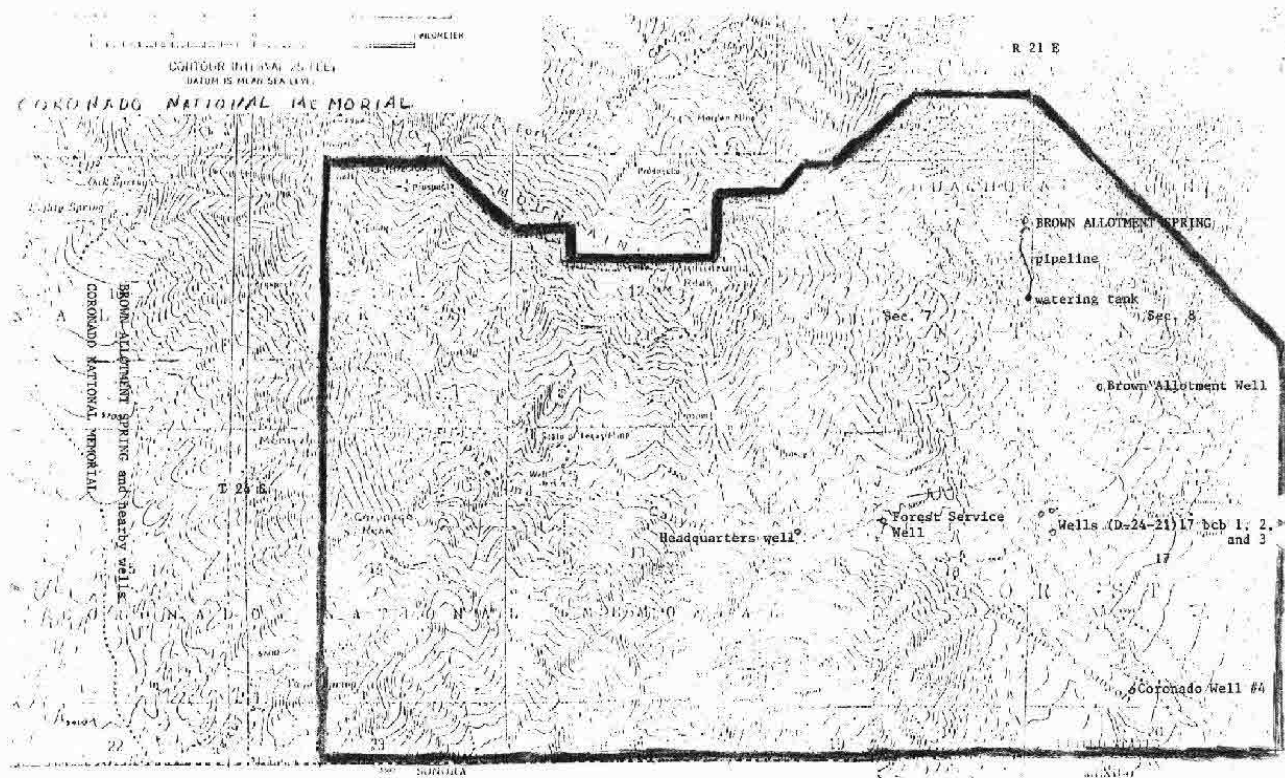
Claimant-affiant signature

est:

Subscribed and sworn to before me this
30th day of November, 1981.



My Commission expires 3/26/85



Supporting Hydro Data

PERMANENT REFERENCE
 Do Not Discard

FORM 9-1642B (DEC 66) **NATIONAL TRAIL SERVICE** Well No. (D-24-21)18 bda
WELL SCHEDULE
 U. S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION

MASTER CARD

Record by W. Werrell Source of data Field Date June 4, 74 Map Hereford SW-7 1/2
 State Arizona County Cochise
 Latitude: 31° 20' 45" N Longitude: 111° 01' 45" W Sequential number 1
 Local well number: D-24-21-18 BDA Other number: _____
 Local use: _____ Owner or name: U.S. Forest Service
 Ownership: County, (F) Fed Gov't, City, Corp or Co., Private, State Agency, Water Dist. (F)
 Use of water: (U) Stock, (U) Irrig., (U) Recharge, (U) Desal-P S, Desal-other, Other (U)
 Use of well: (U) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, (U) Unused, Withdraw, Waste, Destroyed (U)
 DATA AVAILABLE: Well data () Freq. W/L meas.: () Field aquifer char. ()
 Hyd. tab. data: ()
 Qual. water data: type: Specific conductance
 Freq. sampling: () Pumpage inventory: () no. period: _____
 Aperture cards: () yes ()
 Log data: ()

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 140.6 ft. 141 feet Steel tape ()
 Depth cased: 20 ft. 20 feet Steel () Diam. 5 in. ()
 Finish: () porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, (X) other ()
 Method: () air bored, cable, dug, () jetted, () reverse trenching, driven, drive wash, () other ()
 Drilled: () percussive, rotary, () other ()
 Date Drilled: () Pump intake setting: () ft. ()
 Driller: () name () address ()
 Lift: () (type): air, bucket, cent, jet, (cent.) (turb.) none, piston, rot, submerg, turb, other () Deep () Shallow ()
 Power: () nat. LP () Trans. or meter no. ()
 (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. ()
 Descrip. MP Top of well casing, 1.2 ft. above LSD. Alt. MP ()
 Alt. LSD: 5175 5175 Accuracy: USGS Topo-25' Contours (3)
 Water Level: 43.4 ft. above MP; 43 below LSD Accuracy: by steel tape (A)
 Date meas: Feb 17, 74 274 Yield: () gpm () Method: () determined ()
 Drawdown: () ft. () Accuracy: () Pumping period: () hrs. ()
 QUALITY OF WATER DATA: Iron () Sulfate () Chloride () Hard. ()
 Sp. Conduct 510 $\times 10^6$ () Temp. 71 $^{\circ}\text{F}$ () Date sampled June 4, 74 674
 Taste, color, etc. ()

Well No. (D-24-21)18 bda

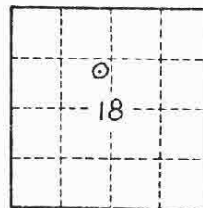
Well No. (D 4 21) 18 bda

Latitude-Longitude 31 20 45 S 110 14 58 W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD ☐ Physiographic Province: ☐ Section: ☐
 Drainage Basin: ☐ Subbasin: ☐
 Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)
 (P) offshore, (P) pediment, (S) hillside, terrace, undulating, valley flat ☐ P
 MAJOR AQUIFER: Jurassic (?) ☐ Huachuca Quartz Monzonite ☐
 system series aquifer, formation, group
 Lithology: ☐ Origin: ☐ Aquifer Thickness: ☐ ft
 Length of well open to: 141 ft 1 4 1 Depth to top of: ☐ ft
 MINOR AQUIFER: ☐ aquifer, formation, group
 system series Aquifer Thickness: ☐ ft
 Lithology: ☐ Origin: ☐ Aquifer Thickness: ☐ ft
 Length of well open to: ☐ ft Depth to top of: ☐ ft
 Intervals Screened: ☐
 Depth to consolidated rock: ☐ ft Source of data: ☐
 Depth to basement: ☐ ft Source of data: ☐
 Surficial material: ☐ Infiltration characteristics: ☐
 Coefficient Trans: ☐ gpd/ft Coefficient Storage: ☐
 Coefficient Perm: ☐ gpd/ft² Spec cap: ☐ gpd/ft; Number of geologic cards: ☐

This well was drilled several years ago by a private citizen. The land was soon taken by Dept. of Agriculture, Forest Service. Well is located 155 feet east of Coronado National Memorial and 348 feet south of paved road - distances chained by steel tape. This land may soon be acquired by National Park Service in order to allow the building of an access road to southeast portion of the park.



Aquifer test conducted on June 4, 1974 - see attached data sheets.

Depth of casing determined by lowering tape while looking down the well with a mirror. Also seen were circular striations on the side of the open hole section - indication of rotary drilling operation.

Specific conductance of June 4, 1974 was obtained from USGS from field collected sample.

GPO: 1972 O - 473 - 040

Well No. (D-24-21) 18 bda

Coronado ("Forest Service Well")
(D-24-21) 18 bda
Update Sheet

The Park Service is now the owner of this well. An iron plate has been welded to the top of the 5 inch well casing of this well. The site was visited on August 18, 1980; no measurements were taken.

W. Reed
9/25/80

[illegible]

Coronado
(D-24-21) 18 bda
"Forest Service Well"



Coronado, "Forest Service Well," looking Northwest. Montezuma Peak is in the background. This well was drilled by previous land owners (private sector) before the land was acquired by the Forest Service and then the NPS. This well is unused due to its low potential.

Coronado, "Forest Service Well," looking West. This well is located in Montezuma Canyon, east of Headquarters and south of the entrance road.



William Reed
8/18/80

NATIONAL PARK SERVICE
AQUIFER TEST DATA SHEET

Pumped Well Observation Well

Page 1 of 5Well Number (D-24-21) 18 bda
(If observation well, give pumping well number also - last)Location 155 ft. East of Coronado National Memorial
(If observation well, give distance and direction from pumped well)Total number of observation wells 0Owner of well U.S. Dept. of Agriculture - Forest ServiceMeasuring point is top of well casing
which is 1.2 feet above land surface datum.
belowPump intakes at 134 feet below land surface datum during aquifer test.Static water level is 43.40 feet above land surface datum.
belowDischarge determined by volumetric, using 5 gallon bucket
(flow meter / Parshall flume / constant head tank)Water level determined by electric probe
(electric probe / steel tape / air line)Well open to aquifer by open hole
(open hole / manufactured screen / machine slots / torch slots / ripped casing)
from 20 feet to 141 feet below land surface datumObservers: William Werrell, Dick Weaver,
George Brown.Date of beginning of aquifer test June 4 1974
month day yearNotes: Drawdown determined by lowering electric probe to static water level, the zero point of a steel tape was then taped to the probe line at the measuring point elevation. Drawdowns during the test were read directly from the steel tape held at the measuring point.

AQUIFER TEST DATA SHEET

(Pumped Well) Observation Well

Page 2 of 5Well # (D-24-21) 18 bda

(If observation well, give pumping well # also - last)

CLOCK TIME	ELAPSED TIME SINCE PUMPING STARTED/STOPPED (minutes)	DEPTH TO WATER BELOW MP (LSD) (feet)	DRAWDOWN OR RECOVERY (feet)	REMARKS: Discharge, Specific Conductance, Temperature, Taste, Odor, etc.
11:11	0	43.40	.	Static water level.
:		.	.	Pump turned on.
:13	2	.	5.5	
:14	3	.	6.6	
:15	4	.	7.5	Discharge = 5 gal in 2:55
:16	5	.	8.3	
:17	6	.	9.3	
:18	7	.	10.3	Discharge = 5 gal in 2:55
:19	8	.	11.4	
:20	9	.	12.3	
:21	10	.	13.3	Discharge = 5 gal in 2:55
:22	11	.	14.1	
:23	12	.	15.0	
:24	13	.	15.9	Discharge = 5 gal in 3:00
:25	14	.	16.7	
:26	15	.	17.7	
:27	16	.	18.6	Discharge = 5 gal in 2:55
:28	17	.	19.5	
:29	18	.	20.6	
:30	19	.	21.5	Discharge = 5 gal in 2:50
:31	20	.	22.4	
:32	21	.	23.2	
:33	22	.	24.3	Discharge = 5 gal in 2:50
:34	23	.	25.3	
:35	24	.	26.4	
:36	25	.	27.2	Discharge = 5 gal in 2:50

AQUIFER TEST DATA SHEET

Pumped Well Observation Well

Page 3 of 5

Well # (D-24-21) 18 bda

(If observation well, give pumping well # also - last)

CLOCK TIME	ELAPSED TIME SINCE PUMPING STARTED/STOPPED (minutes)	DEPTH TO WATER BELOW MP/LSD (feet)	DRAWDOWN OR RECOVERY (feet)	REMARKS Discharge, Specific Conductance, Temperature, Taste, Odor, etc.
11:37	26	.	28.3	
:38	27	.	29.1	Discharge = 5 gal in 2:50
:39	28	.	30.0	
:40	29	.	30.9	
:42	31	.	.	Discharge = 5 gal in 2:50
:45	34	.	35.8	Discharge = 5 gal in 2:30
:47	36	.	.	Discharge = 5 gal in 2:40
:50	39	.	40.2	Discharge = 5 gal in 2:50
:—	—	.	.	Discharge = 5 gal in 2:50
:55	44	.	44.5	Discharge = 5 gal in 2:50
:—	—	.	.	Discharge = 5 gal in 2:50
12:00	49	.	48.2	
:—	—	.	.	Discharge = 5 gal in 2:50
:05	54	.	51.5	Discharge = 5 gal in 2:50
:—	—	.	.	Discharge = 5 gal in 2:50
:10	59	.	56.2	Discharge = 5 gal in 3:00
:—	—	.	.	Discharge = 5 gal in 3:00
:15	64	.	59.9	
:—	—	.	.	Discharge = 5 gal in 3:00
:—	—	.	.	Discharge = 5 gal in 3:00
:20	69	.	63.3	
:—	—	.	.	Discharge = 5 gal in 3:00
:25	74	.	66.4	Discharge = 5 gal in 3:00
:—	—	.	.	Discharge = 5 gal in 3:00
:30	79	.	69.9	
:—	—	.	.	Discharge = 5 gal in 2:50

AQUIFER TEST DATA SHEET

Pumped Well Observation Well

Page 4 of 5

Well # (D-24-21) 18 bda

(If observation well, give pumping well # also - last)

CLOCK TIME	ELAPSED TIME SINCE PUMPING STARTED/STOPPED (minutes)	DEPTH TO WATER BELOW MP/LSD (feet)	DRAWDOWN OR RECOVERY (feet)	REMARKS: Discharge, Specific Conductance, Temperature, Taste, Odor, etc.
: -	—	.	.	Discharge = 5 gal in 2:55
12:35	84	.	72.8	
: -	—	.	.	Discharge = 5 gal in 2:55
:40	89	.	75.5	Discharge = 5 gal in 3:00
: -	—	.	.	Discharge = 5 gal in 3:00
:45	94	.	78.2	Discharge = 5 gal in 2:55
: -	—	.	.	Discharge = 5 gal in 3:00
:50	99	.	81.3	
: -	—	.	.	Discharge = 5 gal in 3:00
:55	104	.	84.4	Discharge = 5 gal in 3:05
: -	—	.	.	Discharge = 5 gal in 3:05
13:00	109	.	88.0(?)	Discharge = 5 gal in 2:50
:01	110 - 0	.	.	Pump broke suction
:		.	.	and was turned off.
:		.	.	Pump occupies almost
:		.	.	all of well area for
:		.	.	the last foot or so,
:		.	.	thus quick drawdown
:		.	.	in this area.
:02	111 - 1	.	88.2	Well recovery data.
:06	115 - 5	.	86.8	
:11	120 - 10	.	84.9	
:16	125 - 15	.	83.1	
:21	130 - 20	.	81.7	
:26	135 - 25	.	80.1	
:31	140 - 30	.	78.1	

Page 5 of 5

(If observation well, give pumping well # also - last)

[illegible]

Other Supporting Information

D 240 210 18 BDA WR 629141 FILE TYPE: REGISTRATION WELL TYPE: EXEMPT

DATE ISSUED: 06 09 982 PLANNED PUMP CAP:

NAME: NATL PARK SVC

IN CARE OF: D W R

BOX 36063

SAN FRANCISCO CA 94102

ACCURACY: NOT VERIFIED

WATER USES:

AREA: OUTSIDE

SUB-BASIN:

WATERSHED: SAN PEDRO RIVER

WELL USES:

COUNTY: COCHISE

OWNER: FEDERAL

DRILLER:

WELL DPTH: 140 FT CASE DIAM: 5 IN CASE DPTH: 20 FT METH DET:

PUMP CAP: FINISH: STEEL ACRES IRR: YIELD:

DRAW DOWN: WATER LVL: 43 FT LIFT: POWER:

DATE COMPLETED:

POU #1:

POU #2:

STATUS: DATA OWN LOG R CRT R PQ NBR: IPQ STATUS:

ENTER - READ NEXT RECORD

CLEAR TO RETURN TO SELECTION CRITERIA



NATIONAL PARK SERVICE

450-GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94107

JUN 9 '82

June 4, 1982

Mr. Wesley E. Steiner, Director
Department of Water Resources
99 E. Virginia Avenue
Phoenix, Arizona 85004

Reference: Arizona Groundwater Management Act
(1980), A.R.S. 45-593

Dear Mr. Steiner:

Enclosed are the completed well registration forms for existing wells within the State of Arizona owned by the United States Government, Department of the Interior, National Park Service, Western Region. These forms have been completed for the following areas: Casa Grande National Monument (1 well), Chiricahua National Monument (8 wells), Coronado National Memorial (6 wells), Fort Bowie National Historic Site (1 well), Grand Canyon National Park (no wells), Lake Mead National Recreation Area (14 wells), Montezuma Castle National Monument (3 wells), Organ Pipe Cactus National Monument (21 wells), Petrified Forest National Park (3 wells), Saguaro National Monument (14 wells), Tonto National Monument (1 well), Tumacacori National Monument (3 wells), Tuzigoot National Monument (1 well), and Walnut Canyon National Monument (1 well). The location of these National Park Service areas are shown on the enclosed map (in red).

Of the total 77 wells being registered, 12 wells have a pump capacity exceeding 35 gallons per minute and therefore payment in the amount of \$120.00 (\$10.00 X 12) will be forwarded to your office by the U.S. Treasury Department under separate cover as the registration fee for these non-exempt wells.

If there are any questions with regards to this matter, or if we can be of further assistance, please contact Gerard S. Witucki, Chief, Division of Water Resources, (415) 556-8660. of this Office.

Sincerely yours,

FOR Master John E. Cherry

Howard H. Chapman
Regional Director, Western Region

Enclosures

See attached sheet for bcc's

JUN 9 '82
 Rocky Mountain
 Regional Office
 Regional Director
 Deputy Regional Director
 Administration
 Port Operations
 Plans & Resource Mng.
 Comp Prog
 Communications & P.A.
 EEO
 Over Eval
 Action Taken

bcc's sent to:

Superintendent, Casa Grande, w/respective encls., w/blank form & w/o map
Superintendent, Chiricahua/Fort Bowie, w/respective encls., w/blank form & w/o map
Superintendent, Coronado, w/respective encls., w/blank form & w/o map
Superintendent, Grand Canyon, w/o encls.
Superintendent, Lake Mead, w/respective encls., w/blank form & w/o map
Superintendent, Montezuma Castle/Tuzigoot, w/respective encls., w/blank form & w/o map
Superintendent, Organ Pipe Cactus, w/respective encls., w/blank form & w/o map
Superintendent, Petrified Forest, w/respective encls., w/blank form & w/o map
Superintendent, Saguaro, w/respective encls., w/blank form & w/o map
Superintendent, Tonto, w/respective encls., w/blank form & w/o map
Superintendent, Tumacacori, w/respective encls., w/blank form & w/o map
Superintendent, Walnut Canyon, w/respective encls., w/blank form & w/o map
General Superintendent, Southern Arizona Group, w/respective encls., w/blank form & w/o map
Field Solicitor, San Francisco Office - Attn: J. Burke, w/encls. & w/blank form
Field Solicitor, Phoenix Office - Attn: W. Swan, w/map, w/blank form & w/example of completed form
Regional Director, Rocky Mountain Region - Attn: W. McKeel, w/map, w/blank form & w/example of completed form
Regional Director, Southwest Region - Attn: G. Moore, w/map, w/blank form & w/example of completed form
(WR)AF, w/SF 1034, w/o encls.



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

WESTERN REGION

450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

L54 (WR) PSW
CORO/GEN

July 8, 1974

Memorandum

To: Chief, Division of Water Resources, Western Region
From: Hydrologist, Division of Water Resources
Subject: Field Trip of June 3-5, to Coronado National Memorial

Purpose of the Trip: Trip made in accordance with request of memorandum of April 23, from John Clay, General Superintendent of Southern Arizona Group, requesting assistance in conducting an aquifer test (pump test) at Coronado National Memorial. This aquifer test was recommended in my field trip report of March 6.

Itinerary: Left San Francisco, flew to Tucson and drove to the park on June 3. Test conducted on June 4. Returned to San Francisco on June 5.

Companions: None

Accomplishments: Met with Mr. Dick Weaver of Southern Arizona Group, also Mr. George Brown, maintenance worker of the park. Supervised aquifer test, collected and recorded appropriate data.

Obtained more accurate well location and other pertinent data of the well. Filled out USGS well schedule (complete well data sheet), enclosed.

Observations: Well was drilled several years ago by a private citizen. The land was soon taken by Department of Agriculture, Forest Service. Well is located 155 feet east of park boundary and 348 feet south of paved road -- distances were chained by steel tape; USGS well # (D-24-21)18bda.

Collected and recorded aquifer test data as follows:

Elevation of ground surface datum = 5175 feet above sea level.

Depth of water below land surface datum (static) = 43.4 feet.

no FRW



Let's Clean Up America For Our 200th Birthday

Pumping at 1.7 gpm: drawdown = 13.3 feet in 10 min.
= 30.9 feet in 29 min.
= 48.2 feet in 49 min.
= 63.3 feet in 69 min.
= 75.5 feet in 89 min.
= 86.0 feet in 109 min.

After 110 minutes of pumping the pump broke suction and the test was ceased.

Recovery data is as follows: drawdown = 84.9 feet after 10 min.
= 81.7 feet after 20 min.
= 78.1 feet after 30 min.
= 73.8 feet after 45 min.
= 68.8 feet after 65 min.

During the pumping period of the test it was realized that the volume of water pumped very closely matched the amounts which could be expected by removing water from the hole while assuming that no water was entering the well, i.e., pumping of water from well storage.

Recovery data of the aquifer test indicates that recharge to the well is at the rate of 0.3 gallons per minute. This figure was computed by assuming a 6-inch diameter hole and 1.6 foot rise in water level per 10 minute period.

A water sample was collected during the pumping period. A specific conductance was determined several hours later and found to be 510 micromohs @ 71° F.

Conclusion: Aquifer test of the well indicates a yield of insufficient quantity to be useful for water supply of the park. This well is believed to have been drilled entirely in consolidated materials, its yield depending upon fractures of unpredictable depth and quantity. For the above reasons it is recommended that no further consideration be given to use of this well in obtaining a reliable water supply for the park.

As a result of the above findings, it is now suggested that a new water source be developed for the park. In this regard the afternoon was spent in field examination of the park as to potential well drilling sites, both Mr. Sharp and Mr. Brown accompanied me. Mr. Sharp, the contractor of the aquifer test, was also contractor for the well now supplying water to the park and also for the 100 ft dry hole drilled in front of the park headquarters. Mr. Brown is a long term employee

of the park and familiar with the present water supply system. As a result of the field examination three potential well sites were selected. Site #1 is located on the south side of Montezuma Canyon adjacent to the campground road SW-1/4, SE-1/4, NW-1/4, Sec. 18. The site is adjacent to an existing water line and electrical lines are in close proximity. Site #2 is on the north side of Montezuma Canyon, NE-1/4, SE-1/4, NW-1/4, Sec. 18. The nearest power and pipeline hook-up to this site is the monument headquarters, some 600 feet away. Site 3 is located in the extreme eastern portion of the park, NE-1/4, SE-1/4, SW-1/4, Sec. 17. Placement of a well at Site 3 into service, would require approximately 1-1/4 miles of pipeline. Hydrologic evaluation of the three sites is as follows: Sites 1 and 2 are along Montezuma Canyon, a canyon containing a shallow alluvium underlain by the Morita Formation which is faulted into place. The Morita is basically a siltstone and mudstone with occasional thin sandstone or pebble conglomerate lens. Production from this horizon, if any, would depend upon intersection of the sands or pebbles, or possible fractures. The present well of the park yields from this formation. Test wells drilled at these sites could possibly be 200 feet deep. Due to the geologic factors involved at these sites, the quantity of water produced at either site is highly speculative - in rough terms, I feel we have slightly better than 50-50 chance of acquiring a well comparable to the present park well. Site 3 is located in the eastern portion of the park where the alluvial materials are believed to be several hundred feet thick. A well at Site 3 may be as much as 500 feet deep. Production from the alluvium should be more than sufficient for total park needs.

Recommendations/Proposals:

It is recommended that we initially select Site 3 for drilling, if it does not prove to be satisfactory we can then move to Site 1 and 2 in that order.

SIGNED

William L. Werrell

Approved

(SGD) GERARD S. WITUCKI

Gerard S. Witucki
Chief, Division of Water Resources

Docket Information

Number of Documents in Docket 32
Documents Dated from 2/17/1974 to 3/9/2004
Docket Compiled: 3/14/2012