



WATER-RIGHT DOCKET

Canyon De Chelly National Monument

Docket No: 1

HEADQUARTERS WATER SYSTEM

Preliminary Docket Information

00-00-0000: headquarters water system information

Area: Canyon de Chelly Docket #1

Title of Docket: Headquarters Water System

1. Memorandum on results of well drilling at Chinle, Navajo Indian Reservation, Apache County, Arizona, by L. C. Halpenny, dated September 1949.
2. Well Pump Data Chart dated September 9, 1952, Sheet 1 of 1.
3. Completion Report of Construction Project, Report 7 SPL, date work completed June 17, 1960.
4. Analytical Statement, Lab. No. 51321, dated February 28, 1963.
5. U. S. Geological Survey Analytical Notes, Lab No. 056236 dated February 8, 1965.
6. Laboratory Data Sheet for Water Samples, No. 68-PH-119, completed September 19, 1967.
7. Memorandum to Superintendent, Canyon de Chelly, from Hydraulic Engineering Technician, SSC dated September 20, 1967, concerning Water Chemical Analysis Kit.
8. Report of Well Driller, Binning Drilling, completed October 3, 1967, (2 pages).
9. Laboratory Data Sheet for Water Samples, No. 68-PH-175, collected October 5, 1967.
10. Ground Water Analysis, Lab No. 061507 dated April 20, 1967.
11. USGS Chemical Analysis, Lab. No. 063295 dated February 2, 1968.
12. Memo to Superintendent, Canyon de Chelly NM from Hydraulic Engineer, Water Resources, SWRO, dated Dec. 19, 1973, transmitting Test Pumping Data for Well #2 (10P-536).

Canyon de Chelly NM
Water Rights Docket #1
Outline of Assembly-Correspondence

1. Memorandum to Regional Director, Region Four from Acting Regional Director, dated August 7, 1943
2. Memorandum to Regional Director from Chief, Water Resources, dated August 30, 1962
3. Memorandum to Director from Acting Regional Director, dated September 27, 1962
4. Memorandum to Superintendent from Assistant Regional Director, dated September 13, 1963
5. Memorandum to Regional Director, Southwest Region from Chief, Branch of Water Resources, dated July 15, 1964
6. Memorandum to Director from Assistant Regional Director, Operation, dated December 2, 1965
7. Memorandum to Superintendent from Acting Supervisory Hydraulic Engineer, LWSHC, dated April 5, 1967
8. Memorandum to Director, W.S.C. from Chief, Division of Water Resources, dated January 18, 1971

NOTE TO FILE

Potential exists that there are duplicate well registration files filed with the Arizona Department of Water Resources (ADWR). Correspondence indicates two letters have been sent the ADWR, one by the Superintendent and one by the Southwest Region. No well registration numbers can be found in the Docket. A call should be placed to ADWR to find out if two registrations were filed and what registration numbers (55-???) were attached to the filings. If duplicate registrations exist, a letter should be sent to ADWR to withdraw one.

William R. Hansen
September 18, 1995

RECEIVED
NATIONAL PARK SERVICE
JUN 14 1982

L54 (SWR-OM)

CERTIFIED

JUN 14 1982

*File in
Canyon de Chelly Water Right
Docket # 1*

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

Dear Mr. Steiner:

Enclosed are the completed forms to register all production and observation wells administered by the Southwest Region of the National Park Service located in Santa Fe, New Mexico, as required by Arizona Groundwater Management Act (1980), A.R.S. 45-493.

The following production and observation wells are to be registered:

Hubbell Trading Post - one production well
Wupatki National Monument - one production well and one observation well
Sunset Crater National Monument - one production well and one observation well

The following wells are also reported as a matter of comity:

Canyon de Chelly National Monument - 1 well
Navajo National Monument - 2 wells

Should you have any questions with regards to this matter, or if we can be of further assistance, please contact Garland Moore of this office at (505) 988-6368.

Sincerely yours,

/s/ Robert L. Kerr

Regional Director,
Southwest Region

Enclosures

cc:

General Superintendent, Navajo Lands Group
Superintendents, Canyon de Chelly, Navajo, Sunset/Wupatki, Hubbell Trading Post
Chief, Division of Water Resources, WASO/497
(each with copy of enclosure)

Note: Please file this information in your appropriate water right docket

DEPARTMENT OF WATER RESOURCES
99 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

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

FOR OFFICE USE ONLY	
REGISTRATION NO. 35	_____
FILE NO.	_____
FILED (DATE)	AT (TIME)
INA	_____
AMA	_____

- Name of Registrant:
United States of America - National Park Service
P.O. Box 728 Santa Fe New Mexico 87501
(Address) (City) (State) (Zip)
 - File and/or Control Number under previous groundwater law:
A-5-10-221-1 701 35
(File Number) (Control Number)
 - a. The well is located within the NE 1/4 NE 1/4, Section 22,
of Township 5 N 2, Range 10 E W, G & SRB & M, in the
County of Apache.
b. If in a subdivision: Name of subdivision Canyon de Chelly National Monument,
Lot No. _____, Address P.O. Box 588, Chinle, Arizona 86503.
 - The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Municipal and other park uses.
 - If for irrigation use, number of acres irrigated from well N/A.
 - Owner of land on which well is located. If same as Item 1, check this box ☐
Navajo Indian Reservation Window Rock Arizona
(Address) (City) (State) (Zip)
 - Well data (If data not available, write N/A)
a. Depth of Well 617 feet
b. Diameter of casing 6 inches
c. Depth of casing 617 feet
d. Type of casing Steel, welded, standard gage
e. Maximum pump capacity 100 gallons per minute.
f. Depth to water 9.25 feet below land surface.
g. Date well completed March 1967
(Month) (Day) (Year)
 - The place(s) of use of water. If same as Item 3, check this box ☒
1/4 1/4 1/4, Section _____ Township _____ Range _____
1/4 1/4 1/4, Section _____ Township _____ Range _____
- Attach additional sheet if necessary. See Sheet #2

9. DATE 6/11/82 SIGNATURE OF REGISTRANT Robert J. Smith
Regional Director, Southwest Region

INSTRUCTIONS FOR COMPLETING REGISTRATION FORM

General Instructions

1. A person who owns an "Existing Well" shall register the well, pursuant to A.R.S. 45-593, by filing this form in duplicate with the Department of Water Resources not later than midnight June 14, 1982. The form must be completed and signed. Failure to do so will constitute a violation of A.R.S. 45-593, and may subject the well owner to injunction and/or civil penalties, pursuant to A.R.S. Title 45, Article 12.
2. An "Existing Well" means, (1) a well which was drilled on or before June 12, 1980 and which is not abandoned or sealed, or (2) a well which was not completed on or before June 12, 1980, but for which a Notice of Intention to Drill was on file with the Arizona Water Commission on or before June 12, 1980.
3. No registration fee is required for Exempt Wells. A \$10.00 registration fee must accompany registration forms for all Non-Exempt Wells.
4. An "Exempt Well" means a well having a pump with a maximum capacity of not more than 35 gallons per minute which is used to withdraw groundwater. An Exempt Well may include the non-commercial irrigation of not more than 1 acre of land.
5. A "Non-Exempt Well" means a well that is not an "Exempt Well".

INSTRUCTIONS FOR REGISTRATION QUESTIONS

1. The Registrant must be the owner of the well and may be an individual, public or private corporation, company, partnership, firm, association, society, estate, trust, any other private organization or enterprise, the United States, any state, territory or country or a governmental entity, political subdivision or municipal corporation organized under or subject to the constitution and laws of this State.
2. If you own an existing irrigation well drilled at any time, or any other type of well drilled on or after June 20, 1968, you should have an assigned control and/or file number. Write these numbers in item 2. If you do not know the number, please explain the reason on the form or on an attached sheet.
3.
 - a. Fill in the Section, Township and Range in all cases if it is available.
 - b. If the well is in a subdivision and you have this information, give the subdivision name, Lot Number, and Address.
4. Show all purposes for which the water is used.
5. If the well is used for irrigation, give the number of acres irrigated in 1980 from the well.
6. If the owner of the land is an individual, give the last name, first name, middle initial. If the owner of the land is a corporation, partnership, firm, etc., fill in the appropriate title.
7. Complete the section on Well Data with the most accurate information available to you. If the data is not available, write N/A in the blanks.
8. Give the legal description of the place of use of the water. If place of use is in a subdivision and legal description is not available, give the subdivision name, Lot Number and/or address on the blank line.
9. The person in whose name a well is registered shall notify the Department of any change in ownership and shall keep all information on the registration record current and accurate. A form entitled "Change of Well Information/Ownership" is available for this purpose. A blank form will be furnished with the returned duplicate copy of the registration form.

CACH



United States Department of the Interior
NATIONAL PARK SERVICE

Canyon de Chelly National Monument
P.O. Box 588
Chinle, Arizona 86503

IN REPLY REFER TO:

D5039

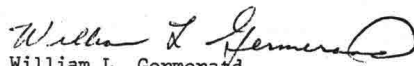
May 6, 1982

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

Dear Sir:

Attached are the well registration forms for Canyon de Chelly National Monument with a money order in the amount of \$10.00 to cover the registration fee.

Sincerely,


William L. Germeraad
Superintendent

Enclosure

cc: General Superintendent, NALA

DEPARTMENT OF WATER RESOURCES

99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING

PRINT OR TYPE - FILE IN DUPLICATE

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

FOR OFFICE USE ONLY	
REGISTRATION NO. 55-	_____
FILE NO.	_____
FILED _____ AT _____	(DATE) (TIME)
INA _____	
AMA _____	

- Name of Registrant:
Canyon de Chelly National Monument
P.O. Box 588 Chinle Arizona 86503
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
A-5-10-22-1701 35
(File Number) (Control Number)
- The well is located within the 1/4 1/4 1/4, Section 22, of Township 5 N/S Range 10 E/W, G & SRB & M, in the County of Apache.
 - If in a subdivision: Name of subdivision _____, Lot No. _____, Address _____.
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Municipal
- 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 617 feet
 - Diameter of casing 6 inches
 - Depth of casing 617 feet
 - Type of casing steel casing
 - Maximum pump capacity 100 gallons per minute.
 - Depth to water 9' feet below land surface.
 - Date well completed March 1967
(Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☐
1/4 1/4 1/4, Section _____ Township _____ Range _____
1/4 1/4 1/4, Section _____ Township _____ Range _____
Attach additional sheet if necessary
- DATE 5/6/72 SIGNATURE OF REGISTRANT Walter L. Gernisand

INSTRUCTIONS FOR COMPLETING REGISTRATION FORM

General Instructions

1. A person who owns an "Existing Well" shall register the well, pursuant to A.R.S. 45-593, by filing this form in duplicate with the Department of Water Resources not later than midnight June 14, 1982. The form must be completed and signed. Failure to do so will constitute a violation of A.R.S. 45-593, and may subject the well owner to injunction and/or civil penalties, pursuant to A.R.S. Title 45, Article 12.
2. An "Existing Well" means, (1) a well which was drilled on or before June 12, 1980 and which is not abandoned or sealed, or (2) a well which was not completed on or before June 12, 1980, but for which a Notice of Intention to Drill was on file with the Arizona Water Commission on or before June 12, 1980.
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2. If you own an existing irrigation well drilled at any time, or any other type of well drilled on or after June 20, 1968, you should have an assigned control and/or file number. Write these numbers in item 2. If you do not know the number, please explain the reason on the form or on an attached sheet.
3.
 - a. Fill in the Section, Township and Range in all cases if it is available.
 - b. If the well is in a subdivision and you have this information, give the subdivision name, Lot Number, and Address.
4. Show all purposes for which the water is used.
5. If the well is used for irrigation, give the number of acres irrigated in 1980 from the well.
6. If the owner of the land is an individual, give the last name, first name, middle initial. If the owner of the land is a corporation, partnership, firm, etc., fill in the appropriate title.
7. Complete the section on Well Data with the most accurate information available to you. If the data is not available, write N/A in the blanks.
8. Give the legal description of the place of use of the water. If place of use is in a subdivision and legal description is not available, give the subdivision name, Lot Number and/or address on the blank line.
9. The person in whose name a well is registered shall notify the Department of any change in ownership and shall keep all information on the registration record current and accurate. A form entitled "Change of Well Information/Ownership" is available for this purpose. A blank form will be furnished with the returned duplicate copy of the registration form.

UNITED STATES GOVERNMENT

memorandum

DATE: July 3, 1979

REPLY TO
ATTN OF: Hydraulic Engineer, Water Resources, SWR

SUBJECT: Analysis of Canyon de Chelly National Monument Water Source

TO: Regional Chief of Maintenance, SWR

Purpose: Conduct a flow test of the existing water supply system at the monument.

Results:

1. The pump is operating in accordance with manufacturer's performance curves.
2. Electrically the pump is in perfect operating condition.
3. The lower 40 feet of the well is reportedly filled with silt thus sealing off 20 feet of the perforated zone from 577 to 597 feet below top of casing.
4. The pump is delivering 69.8 gpm with a pressure of 62 psi at the well head.
5. The well has a lower efficiency rating at this time wherein the drawdown is 22 feet lower than it should be. This increased in pumping head consumes 6.7% of the total energy requirements of the pump.

Recommendations:

1. Pump - none.
2. Well - the lower .40 feet should be cleaned of all silt and the incrustated perforations should be cleared by chemical and mechanical methods.

Existing System at Well Head:

1. Well-
Diameter - 6 inches, Total Depth - 617 feet.
Diameter - 8 inches, Total Depth - 110 feet.
Perforations - field cut ($\frac{1}{4}$ " x 12").
47 perforations from 597 to 550 feet.
45 perforations from 447 to 402 feet.
50 perforations from 205 to 160 feet.



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

OPTIONAL FORM NO. 10
REV. 7-76
GSA FPMR 41 CFR 101-11.6
5010-112

2. Hydraulic-
Static Water Level - 9.25 ft. below ground level. Test pumped
48 hours at average discharge rate of 192 gallons per minute.
Drawdown from 9.25 feet to 36.0 feet below ground level.
3. Pump-
Unit Jacuzzi 7556J5-T/S-131, Serial #SS1-20034.
4. Motor-
Franklin Electric
Model # 236102200 3
RPM - 3450; volts - 208/220
Cycles - 60; AMP -20.6
SF - 1.15; SFA - 23.2
HP - 7.5; SER - AN785
Code - G; Date - 07.

Pump and motor located 106 feet below top of casing.

5. Electrical Test-
 - A. Incoming idle voltage - 240
Running voltage - 230
Running anperage: Black - 21a
Yellow - 23a
Red - 21a
 - B. Check Pump - motor for ground-
(motor windings to housing)
1 Red good
2 Black good
3 Yellow good
 - C. Check "Open Windings (continuity) in cable or motor-
1-2 (Red to Black) 0.70XR1
2-3 (Black to Yellow) 0.75XR1
1-3 (Red to Yellow) 0.80XR1
6. Flow Test-
Install pressure gage nearest pump discharge line, bollowed by 1½"
gate valve and 10 feet of 1½" discharge line. Discharge to system
and reservoir valved shut so that all water will flow to test area.
Flow measurements made in 35 gal. rated garbage can and time.

RESULTS OF FLOW TEST

Pressure (psi)	Equivalent (feet)	Time to fill 35 gal (sec)	Computed (gpm)
0	0	24	87.5
20	46.20	26	80.8
40	92.40	28	75.0
60	138.60	30	70.0
80	184.80	32	65.6

At the conclusion of the above test a pressure gauge was installed at the top of the discharge line. Normal operating conditions showed that the system operates at 62 psi. Computed flow is 69.8 gallons per minute.

The above flow conditions compare favorably with the pump performance curves supplied by its manufacturer.

7. Well Performance-

Constant discharge time drawdown measurements were made for 150 minutes on the drawdown and 40 minutes on the recovery cycle with a Fisher M-Scope. All measurements were made to 0.01 feet from the top of casing and later reduced to ground level. (See Appendix A for test data and appropriate graphs).

In comparing the results of this short term test with a more comprehensive test performed in 1967 we find that the well has decreased in efficiency, where the drawdown is 22 feet lower than it should be. The raising of 70 gpm for the 22 feet consumes approximately 6.7% of the total electrical energy requirements of the pump.

Efficiency can be restored by removing all incrustation at the perforations and cleaning approximately 30 to 40 feet of silt at the bottom of the well which has sealed off the lower 20 feet of perforations (597 to 577 feet).

Park: Canyon de Chelly Well
 Date: June 29, 1979
 Weather: Warm & Windy
 Observer: Garland Moore

DRAWDOWN DATA

Clock Time (hour)	Pumping Time (min)	Depth to Water (BGC)	Specific Capacitance	Remarks
1839	0	11.69	5.97	69.8 gpm (62 psi)
	1	24.40	2.86	
	4	31.30	2.23	
	6	34.27	2.04	
	7	34.70	2.01	
	8	35.10	1.99	
	9	35.40	1.97	
1849	10	35.70	1.96	
1850	11	36.00	1.94	
	12	36.20	1.93	
	13	36.44	1.92	
	14	36.62	1.91	
	15	36.72	1.90	
	16	36.87	1.89	
	17	37.02	1.89	
	18	37.15	1.88	
	19	37.25	1.87	
	20	37.33	1.87	
1904	25	37.95	1.84	
1909	30	38.39	1.82	
1914	35	38.60	1.81	
1919	40	38.88	1.80	
1924	45	39.09	1.79	
1929	50	39.30	1.78	
1939	60	39.63	1.76	
1949	70	39.96	1.75	
1959	80	40.17	1.74	
2009	90	40.37	1.73	
2019	100	40.47	1.72	
2029	110	40.58	1.72	
2039	120	40.72	1.71	
2049	130	40.78	1.71	
2059	140	40.91	1.71	
2109	150	40.97	1.70	

<u>RECOVERY DATA</u>						
<u>Clock Time</u> <u>(hour)</u>	<u>Time, Pump Start</u> <u>(t. min)</u>	<u>Time, Pump Stop</u> <u>(t' min)</u>	<u>Ratio</u> <u>t/t'</u>	<u>Depth to</u> <u>Water BGL</u>	<u>Drawdown from</u> <u>Pumping Curve</u>	<u>Calculated</u> <u>Recovery</u>
2109	150	0	-	40.97	40.97	0
	151	1	151.00	24.57	40.97	16.40
	152	2	76.0	20.40	40.97	20.57
	154	4	38.5	17.85	40.97	23.12
	155	5	31.0	17.12	40.97	23.85
	156	6	26.0	16.58	40.97	24.39
	157	7	22.4	16.14	40.97	24.83
	158	8	19.8	15.85	40.97	26.12
	159	9	17.7	15.51	40.97	25.46
2119	160	10	16.0	15.28	40.97	25.69
	161	11	14.6	15.00	40.97	25.97
	162	12	13.5	14.90	40.97	26.07
	163	13	12.5	14.69	40.98	26.29
	165	15	11.0	14.33	40.98	26.65
2131	172	22	7.82	13.52	40.98	27.46
2139	180	30	6.00	12.74	40.99	28.25
2149	190	40	4.75	12.15	41.00	28.85

Form 110-04-1240

PAGE 1

Examined _____
 Recorded by B. C. _____ T. B. _____
 Inspection Sheet _____
 Copied _____

REPORT OF WELL DRILLER

STATE OF ARIZONA

Application No. _____
 Claim No. _____
 Coordinate No. _____

GENERAL STATEMENT: Report of well driller is hereby made and filed with the State Engineer, in accordance with the laws of ARIZONA.
 (This report shall be filed with the State Engineer within 30 days after the completion or abandonment of the well. Failure to file such reports constitutes a misdemeanor.)

DEPT. OF THE INTERIOR NATIONAL PARK SERVICE

(1) WELL OWNER:

Name CANYON DE CHELLY
 Address CANYON, ARIZONA

(2) LOCATION OF WELL:

County _____ Ground Water Basin _____
 (leave blank) NW 1/4 NE 1/4
 North _____ East _____
 South _____ West _____

of Section 22 T 5 N R 10 W (strike out words not needed) NEW MEXICO PRINCIPAL MERIDIAN

(3) NATURE OF WORK (check):

New Well ☒ Repair ☐ Abandon ☐
 Replacement Well ☐ Deepening ☐ Repair ☐ Abandon ☐
 If abandonment, describe material and procedure: _____

(4) NATURE OF USE (check):

Domestic ☐ Industrial ☐ Municipal ☒ Stockwater ☐
 Irrigation ☐ Mining ☐ Other ☐ Test Well ☐

(5) TYPE OF CONSTRUCTION (check):

Rotary ☐ Dug ☐ Jetted ☐
 Cable ☒ Driven ☐ Bored ☐

(6) CASING SCHEDULE:

Threaded ☐ Welded ☒
8" Diam. from 0 feet to 110 feet Gage 570
6" Diam. from 0 feet to 617 feet Gage 570
 " Diam. from _____ feet to _____ feet Gage _____

New ☒ Reject ☐ Used ☐

(7) PERFORATIONS:

Perforated? Yes ☒ No ☐

Type of perforator used CUTTING TORCH

Size of perforations 1/4 inches by 12 inches

47 perforations from 597 feet to 550 feet

45 perforations from 447 feet to 402 feet

50 perforations from 205 feet to 160 feet

_____ perforations from _____ feet to _____ feet

_____ perforations from _____ feet to _____ feet

(8) SCREENS:

Well screen installed? Yes ☒ No ☐

Manufacturer's Name _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____

Diam. _____ Slot size _____ Set from _____ ft. to _____

(9) CONSTRUCTION:

Was well gravel packed? Yes ☐ No ☒ Size of gravel: _____

Gravel placed from _____ feet to _____ feet

Was a surface seal provided? Yes ☒ No ☐

To what depth? 110 feet

Material used in seal: CLAY AND CEMENT

Did any strata contain unusable water? Yes ☐ No ☒

Type of water: _____ Depth of strata _____

Method of sealing strata off: _____

Was surface casing used? Yes ☒ No ☐

Was it cemented in place? Yes ☒ No ☐

(10) WATER LEVELS:

Static level 9' 3" feet below land surface Date 10-3-67

Artesian pressure _____ feet above land surface Date _____

LOG RECEIVED:

(11) FLOWING WELL:

Controlled by (check) Valve ☐

Cap ☐ Plug ☐ No Control ☐

Does well leak around casing? Yes ☐

No ☐

(12) WELL TESTS:

Drawdown is the distance in feet the water level is lowered below static level.

Was a pump test made? Yes ☒ No ☐ If so, by whom? GINNING DRILLING

Yield: 100 gal./min. with 27 feet drawdown after 21 1/2 hours

" 200 " 30 " 27 "

Bailer test 70 gal./min. with 26 feet drawdown after 8 hours

Arterian flow _____ g.p.m. Date _____

Temperature of water 58° Was a chemical analysis made? No ☐ Yes ☒

(13) WELL LOG:

Diameter of well 8" BORE 6" CASE inches

Depth drilled 617 feet. Depth of completed well 617 feet.

NOTE: Place an "X" in the space or combination of spaces needed to designate the material or combination of materials encountered in each depth interval. Under REMARKS make any desirable notes as to occurrence of water and the color, size, nature, etc., of material encountered in each depth interval. Use additional sheet if needed.

DEPTH		MATERIAL										REMARKS
From	To	Clay	Silt	Sand	Gravel	Cobbles	Boulders	Marl	Concretions	Bedrock	Other	
0	10	X										RED
10	18	X										" 13' TO 18' WATER
18	25	X										SANDSTONE RED
25	31	X										" "
31	40	X										RED
40	50	X										RED
50	60	X										GRAY
60	70	X										GRAY
70	85	X										GRAY
85	90	X										RED WATER 9 FT SURFACE
90	100	X										" SANDSTONE TAP
100	110	X										" " SEALED WATER
110	120	X										" "
120	130	X										" "
130	140	X										" " SOFT-WATER
140	150	X										" "
150	160	X										" "
160	170	X										" "
170	180	X										" "
180	190	X										" " SOFT-WATER
190	200	X										COPPER-COLOR-SANDSTONE HARD
200	220	X										" " " "
220	230	X										" " " "
230	240	X										" " " "
240	250	X										" " " "
250	260	X										" " " "
260	270	X										" " " "
270	280	X										LIGHT COPPER HARDER
280	290	X										" " " "
290	300	X										" " " "
300	315	X										TAN SANDSTONE HARDER
315	320	X										" " " "

Work started AUGUST 7, 1967 Completed OCTOBER 3, 1967

(14) PUMP:

Manufacturer's Name _____

Type: _____ H. P. _____

Depth to pump or bowles _____ feet

Well Driller's Statement:

This well was drilled under my supervision, and this report is true to the best of my knowledge and belief.

Name GINNING DRILLING (Type or print)

Address 227 50th W. PAYSON, UTAH

(Signed) Leslie Ginning (Well Driller)

License No. 243 Date _____, 1967

USE OTHER SIDE FOR ADDITIONAL REMARKS

USE OTHER SIDE FOR ADDITIONAL REMARKS

D5039

Southwest Region
Santa Fe, New Mexico

SEP 13 1963³

Memorandum

To: Superintendent, Canyon de Chelly
From: Assistant Regional Director
Subject: Concessioner's Request to Drill a Water Well

In response to your telephone call of September 9 we have reviewed Justin LaFont's request to drill a water well and make a water system installation on monument land. It is our understanding he wishes to drill a well in order to avoid payment for water from our system which he considers excessive.

It is our opinion that the rate given him of 40 cents per 1,000 gallons is reasonable. We consider the supply sufficient to serve his needs as well as those of the Service. Therefore, we are not approving the proposal.

We should be informed that we are also providing him with sewage facilities which are considered a part of the cost of his water rate and, if he should provide his own water, we would still be required to make a reasonable charge for sewage disposal. The following section (Section 6) from his current contract No. 14-10-0100-504 is quoted in part:

Utilities. (a) The Secretary shall furnish to the Concessioner, when available, and at reasonable rates to be fixed by the Secretary, garbage disposal, water, electric light and power, telephone, and telegraph service for use in connection with the operations authorized hereunder.

Mr. LaFont should also be reminded that the water from any well which might be drilled by him would have to be filed in the name of the United States Government and would become the property of the National Park Service.

Such proposals as this one tend to increase the possessory interest which is not desirable. Therefore, they must be fully justified by the concessioner in writing before being given consideration by the Service.

(SIGNED)

George W. Miller

cc:
Director ✓

JCMiller:ch
9/12/63

CA CH

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

AUG 12 1943	
RECEIVING	FILE
<i>WJH</i>	
<i>8/13</i>	

August 7, 1943.

MEMORANDUM for the Regional Director, Region Four.

Reference is made to Attorney Johnson's memorandum of August 4 relative to the water rights at Canyon de Chelly National Monument.

The monument was established by the Presidential Proclamation under authority of Act of Congress of February 14, 1931, (Public, No. 667 - 71st Congress), Sections 445A and 445B of Supplemental No. 6 to the Code of the Laws of the United States, 1932, Title 16, state that the rights and privileges of the Navajo Indian are not effected in any matter by the establishment of Canyon de Chelly National Monument, but that the National Park Service in its administration of the monument has the responsibility for the maintenance, preservation and restoration of the pre-historic ruins or other features of scientific or historical interest within the area and the right to construct such structures of improvement as may be necessary in connection with the administration and protection of the monument.

The Park Service in the winter of 1935-36 drilled a well from which it has not only been obtaining its own water but also furnishing water to numerous Indians visiting the adjacent trading post. As this well was drilled under the above-mentioned provisions and since a water right is not required for a well in the area, it is felt that no action is required on our part to perfect any right in this area.

Ross A. Maxwell

Ross A. Maxwell,
Acting Regional Director.

cc: Director

Other Supporting Information

RECEIVED
NATIONAL PARK SERVICE
WASHINGTON OFFICE
AUG 16 8 12 AM '79

L54(SWR)OM

AUG 13 1979

AMY:
Please file in
Canyon de Chelly
Water Rights Study

Memorandum

To: General Superintendent, Navajo Lands Group
From: Associate Regional Director, Park Operations, SWR
Subject: Water Resources Investigations

The status of all water resources and water rights activities in each of the parks within the Group is as follows:

El Morro

The monument's "Declaration of Owner of Underground Water Right" was accepted for filing by the State of New Mexico on January 18, 1977 and has been assigned Declaration No. Misc. 32-5.

The above declaration claims a total of 13-acre feet of water per annum for municipal purposes with a priority date of 1906. The usual disclaimer clauses are included.

Additional work to be done, and is reflected in this Region's long-range program, includes:

- 1) Water Resources Management Plan
- 2) Quantification of Reserved Water Rights
- 3) Water Resources/Water Rights Study

Aztec Ruins

Project for drilling of observation wells authorized by Account #7075-70001-585 has been completed on July 15, 1979. Four observation wells were drilled to depths varying from 10 to 35 feet. The purpose of the wells is to measure and record fluctuations in ground water levels found within the monument. The objective of the study is to develop alternating ways in preventing fluctuating ground waters from endangering excavated and unexcavated archaeological ruins of the monument. Preliminary results indicate that the monument is underlain by two

shallow ground water zones which are separated by an impermeable clay zone. The deeper water zone (23 to 30 feet), eastern end of monument, is found in gravel deposits of an ancient stream. It is our opinion, based on limited data, that waters from these deposits do not surface into the ruins within the monument. The upper or shallower water zone (within the upper 10 feet of surface) occurs intermittently and is recharged by local precipitation and from percolated irrigation water from the field located to the north and uphill from the monument. In addition surface runoff from a neighboring pond inundates the north-eastern portion of the monument. Waters from this source are responsible for a swampy and densely vegetated area in the vicinity of the ruins referred to as: Mounds A, B, C, D, and Earl Morris Ruins. This Office is planning to install water level recording gages on each observation well recently drilled and to run a resistivity survey of the monument. All of the above data including alternatives with cost estimates to prevent surface, shallow and ground waters from endangering the archaeological ruins, will be completed by December 1979.

The monument enjoys an adjudicated water rights to 4.8 acre feet of water on 1.6 acres of land for irrigation purposes. The monument obtains its water from the Farmer's Ditch Company which enjoys a priority date of 1892 or earlier.

Chaco Canyon

Water Resources-Water Rights

1) U. S. Geological Survey Draft Report titled "Report of effects and recommended monitoring of energy-related development on water resources in the San Juan Basin at Chaco Canyon National Monument," was completed and draft comments submitted. The final report is scheduled for completion by December 1979.

2) Observation well named Aggravation No. 1, located to the south of the monument was perforated on August 4. Pressure monitoring recorders have been delivered to the monument.

The observation well was perforated from 3957 to 3987 feet below ground level. The purpose of the monitoring program is to determine the effects of nearby energy related activities on the West water Canyon member of the Morrison Formation. The results, in raw and uninterpreted form, will be made available to all upon written request to the Regional Office.

3) Tritium analysis for selected wells including "Fields Well" at the monument has been completed by the University of California at San Diego. Additional tritium and Carbon 14 analysis is being discussed with the same University. We anticipate that this study will be initiated in August with a report submitted by December 1979.

4) Geohydrological report has been contracted with Dr. Zane Spiegel of Santa Fe. This report is overdue and we are following up on it.

5) Temperature-Depth profile data was collected by Dr. Marshall Reiter of New Mexico Bureau of Mines and Mineral Resources on May 17, 1979. Results of the survey with interpretation is expected this fall.

6) To date, the National Park Service has protested four industrial applications for water rights within the San Juan Basin. This course of action is expected to continue.

7) Surface water monitoring, chemical and sediment analysis program is being discussed with the U. S. Geological Survey and is in progress of being implemented.

At Chaco Canyon two declarations of Owner of Underground Water Rights have been accepted for filing by the State of New Mexico on May 18, 1977 and have been assigned Declaration Nos. SJ-324 and SJ-325. The above declarations are for 100 and 20 acre feet of water per annum respectively for municipal purposes with a priority date of March 11, 1907. The usual disclaimer clauses are included.

Additional work to be done includes:

- 1) Water Resources Management Plan
- 2) Quantification of Reserved Water Rights
- 3) Water Rights Study for Court and/or Administrative Hearings

Hubbell Trading Post

The State of Arizona has passed an Act requiring registration of water rights with the appropriate State Office. Legal inquiry suggests that the U. S. rights to the Ganado Irrigation System at this Trading Post fits into the State's definition of requiring them to be registered.

Recent telephone conversations with the Field Solicitor in Phoenix recommend that the NPS not file with the State as it is untimely and will in all probability not serve any useful purpose, as any conflicts over water will be with the Navajo Nation where the Secretary of Interior will make a decision and not the State.

Additional work to be done includes:

- 1) Water Resources Management Plan
- 2) Quantification of Reserved Water Rights
- 3) Water Resources/Water Rights Study

Sunset Crater and Wupatki

A replacement well is being drilled at Sunset Crater. Hydrologist Paul Christensen, a graduate cooperative student from NAU is inspecting the project. The well is being drilled by Perry Brothers Well Drilling Company. The project is experiencing great difficulty thus far. We expect this project to be completed before the end of August.

In addition to the above, Mr. Christensen has elected to make a detailed geology map of both areas as partial fulfillment of his thesis for a Master's Degree.

The following work is also being planned:

- 1) Water Resources Management Plan
- 2) Quantification of Reserved Water Rights
- 3) Water Resources/Water Rights Study

A survey is being made of the Cameron Uranium field north of Wupatki to determine the possible geohydrological effects on Wupatki if uranium mining is reactivated.

Navajo National Monument

Enclosed is a report prepared by the U. S. Geological Survey titled "Ground Water in the Navajo Sandstone in the Black Mesa Area, Arizona." In addition discussions have been held with representatives of Peabody Coal Mining Operations and with U. S. Geological Survey. Admittedly, the Company and U. S. G. S. are quiet on the entire subject on how the mining activity will affect the monument's water supply. This Office, however, has made a study based on published or soon to be published data and is in process of interpreting the information. This report will be completed by the end of August. U. S. G. S. puts out limited number of copies of observation well data in the mining area. Peabody Coal Mining Company has been extremely cooperative and interested in determining if their operation will affect existing water table conditions in the Region.

Additional work programmed is:

- 1) Water Resources Management Plan
- 2) Quantification of Reserved Water Rights
- 3) Water Resources/Water Rights Study

Canyon de Chelly

All water rights for this monument must be claimed as Indian Water Rights, as such, it is mandatory that the U. S. apply the Indian formula to any claims for water. This Office with your assistance will contact the Navajo Nation to file the monument's claim for Indian water under the reservation doctrine.

In addition the following is planned:

- 1) Water Resources Management Plan
- 2) Water Resources/Water Rights Study
- 3) Quantification of Reserved (Indian) Water Rights

This information is supplied for your information. Should you have any questions, please contact Garland Moore of this office.

(Sgd.) Leslie P. Arnberger

Enclosure

cc:

Chief, Division of Air & Water, WASO (Atten: Vic Berte')
Superintendent, Aztec Ruins, Canyon de Chelly, El Morro, Hubble Trading
Post, Navajo, Wupatki/Sunset Crater

Southwest Region
P. O. Box 728
Santa Fe, New Mexico 87501

L54

MM

DEC 19 1973

RECEIVED
DEC 20 8 09 AM '73

Shick
Please file
enclosures in
Canyon de Chelly
wr Pocket #1.
File memo in
corr. file

Memorandum

To: Superintendent, Canyon de Chelly NM
From: Hydraulic Engineer, Water Resources, SWRO
Subject: Test Pumping Well #2 (10P-536)

Enclosed is subject recently received from USGS at Flagstaff. Inhouse plotting of the test pumping data suggests that several boundary conditions exist, but that the recharge is fairly rapid.

Further analysis is required before the maximum yield of the well can be determined. In the interim, we can safely conclude that the well is capable of delivering at least 192 gpm.

More information will be forthcoming. Please file in Water Right Docket #1.

(SIGNED)

Garland Moore

GM:ba
Enclosures

cc:
Chief of Maintenance, NRM-WASO
Gen. Supt., Navajo Lands Group
Associate Regional Director, PSM-SWR
PSM-SWR



IN REPLY REFER TO:

154-MW

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240

JAN 18 1971

Memorandum

To: Director, Western Service Center
Attention: Mr. Gerard S. Witucki

From: Chief, Division of Water Resources

Subject: Headquarters Well - Canyon de Chelly

In reviewing our files, we are unable to locate a report, well log, chemical analysis, etc. on the subject well which was authorized during the 1967 Fiscal Year and drilled during the 1968 Fiscal Year as a carry over project. A quarterly report, dated December 31, 1967 to March 31, 1968, submitted by Mr. Fields, indicated that the well was completed to a depth of 617 feet and pumped at 192 gpm and that La Posta engineering was preparing a final report on the well. A docket should be assembled and distributed to document the well and water system.

Manuel Morris

Manuel Morris

cc
Director, Southwest (2)

D-USE

WESTERN SERVICE CENTER	
JAN 20 1971	
☒	DIRECTOR, WSC
☒	CHIEF, L&P
☒	CHIEF ADM. SVC.
☒	CHIEF, CS&M
☒	LAND & NAT. RES. DIV.
☒	PLANT & SOILS
☒	HIST. ARCHTEC.
☒	CHIEF, PRGMS.
☒	MANAGEMENT

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WATER		
JAN 22 1971		
ACT. INFO.	INITIALS	DATE
WITUCKI, G.		
CHAVEZ, D.		
FILE		
REMARKS		



IN REPLY REFER TO:
L54-SLW

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240
July 15, 1964

RECEIVED		
NPS SOUTHWEST REGIONAL OFFICE		
JUL 20 1964		
	Surname	Date
Regional Director		
Operations		
Administration		
Coop. Activities		
Development		
Resource Study		
Files		

Memorandum

To: Regional Director, Southwest Region
From: Chief, Branch of Water Resources
Subject: Proposed water right docket for Canyon de Chelly

Mr. Dunn's memorandum of October 3, 1962, to you on the subject was reviewed in connection with the current Package Master Plan for this area. Statements in the latter appear to conflict with information we have in our files. The master plan narrative reads, "The well presently in use by the National Park Service was developed originally by former concessioner Cozy McSparron and was acquired from him by the Service," whereas a Well Pump Data Chart dated September 9, 1959, copy enclosed indicates that there is only a Federal pump in the area and that another concessioner's request to drill a well, cited in a memorandum from you to the Superintendent dated September 13, 1963, copy also enclosed, was refused. Also enclosed is an August 7, 1943, memorandum identifying the well then in use as having been drilled by the Service. No interim correspondence in our files supports the above cited statement in the Master Plan Narrative.

As soon as convenient the docket requested with a clarified history of the system including connections to Bureau of Indian Affairs sources would be a valuable addition to our files. Connections to Bureau of Indian Affairs sources are mentioned in the correspondence, but no description of such connections is available.

E. W. Reed
E. W. Reed

Enclosures 3

cc:
Superintendent, Canyon de Chelly, w/o encs.
Chief, WODC (2), w/o encs.

L54 each

July 14, 1964

Water Rights

There are no individual water rights on the reservation as these are vested in the Navajo tribe pursuant to the treaty of 1868. Permission to drill wells and use water is obtained from the Navajo tribe. There appears to be no intent on the part of the Navajo tribe to change this situation judging from the following excerpt from their proposed constitution:

"All water rights to any stream, natural spring, lake, reservoir, pond water hole, well, and all other water supplies developed with government or tribal funds on the Navajo reservation shall remain tribal property."

The well presently in use by the National Park Service was developed originally by former concessioner Cozy McSparron and was acquired from him by the Service. Because this well was originally developed by an individual using private capital, there may be a possibility that he acquired a right which is transferable to the National Park Service.

Copies from Canyon de Chelly Master Plan Page 3.

*OK
C. R. Miller
10/3/62*

October 3, 1962

L54-RL

Memorandum

To: Regional Director, Southwest Region

From: Chief, Branch of Water Resources

Subject: Proposed Water Right Docket for Canyon de Chelly

Enclosed is a copy of my memorandum of July 3, 1958, which was requested in Mr. Miller's memorandum of September 27.

Mr. Barton and I appear to have agreed that the National Park Service well intercepts subsurface stream flow in a well defined channel, and is thus subject to appropriation. Springs which are now diverted below ground are also subject to appropriation if they originally emerged on the surface. Other ground water is not subject to appropriation.

After resolving that matter in connection with both National Park Service and Indian supplies, the next question is whether the Bureau of Indian Affairs and this Service should work out a clarification of water claims, and whether it should be recorded with the State. This matter should also be reconsidered in connection with the tri-party agreement as to the water allocation at Pipe Springs.

RECEIVED

A. van V. Dunn

Enclosure

cc:

✓ Mr. Dunn

AvanVDunn:ljc

✓

Southwest Region
Santa Fe, New Mexico

L54
CACA

9/27/62

Memorandum

To: Director
From: Acting Regional Director
Subject: Proposed Water Right Docket for Canyon de Chelly
National Monument

We have recently received a memorandum dated August 30 from the Chief of the Branch of Water Resources in your office suggesting that a water right docket be assembled to include water system data for Canyon de Chelly National Monument.

In the same memorandum we were requested to define National Park Service and Indian interests as suggested in a memorandum to us by your office dated July 3, 1958. We are unable to find a copy of the memorandum of July 3, 1958 and would appreciate a copy for our files and action.

George W. Miller
Acting Regional Director

In duplicate

MEFields:ew 9/26/62



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D.C.

August 30, 1962

IN REPLY REFER TO:

L54-RL

Memorandum

To: Regional Director, Southwest Region

From: Chief, Branch of Water Resources

Subject: Proposed Water Right Docket for Canyon de Chelly
National Monument

*4 doctets
in file*
We have recently received for review a copy of the completion report, approved June 30, 1962, for Project B-2, entitled "Construction of Water and Sewer System, Headquarters Area."

We suggest that a water right docket be assembled to include existing water system data.

*lets
WASO
9/26*
An effort should also be made to define National Park Service and Indian interests as suggested in our memorandum to you of July 3, 1958.

A. van V. Dunn
A. van V. Dunn
Chief, Branch of Water Resources

Copy to: Superintendent, Canyon de Chelly
Chief, WODC (2)

RECEIVED	
NPS SOUTHWEST REGIONAL OFFICE	
SEP 4-1962	
Regional Director	
Cons., Interp & Use	
Administration	9/4
Resource Planning	
Program Coord.	
Operations	
Concessions	
Natural History	
Hist & Archaeology	
Ranger Exp. Svc.	
Files	15028 9/4



L54
cash



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WESTERN OFFICE DESIGN AND CONSTRUCTION
1400 GEARY STREET SAN FRANCISCO 9 CALIFORNIA

January 21, 1960

IN REPLY REFER TO
D 9039
Mr. [Signature]
DIV. OF DESIGN
AND CONSTRUCTION
JAN 25 1960
[Signatures]

Memorandum

To: Superintendent, Canyon de Chelly National Monument
From: Supervisory Engineer, WDEC
Subject: Interconnection with BIA Water Supply at Canyon de Chelly

In your conference by telephone with Mr. Novak on January 19, you asked us to give you a sketch of a method of connecting the BIA water supply line into the water system now under construction. We assume that you intend to negotiate a contract for the interconnection in the event that, after a thorough pumping test with the new pumping plant, you find the supply in the Monument well to be inadequate.

On the attached print of Sheet 3 of Drawing No. WM-CDC-3110, we have sketched schematically in red pencil what we consider a minimum of hydraulic appurtenances that would be needed for the job. The pump and motor should be capable of boosting water from the BIA source into the storage tank of our new system at the maximum rate possible with available electric energy. The check valve should be similar to the one at the outlet of our well pump. A 4" gate valve should be installed between the booster pump and the junction with our system. The junction can be made by means of a side outlet elbow. Arrangement of the appurtenances inside the pumphouse is schematic as shown and can be done ad lib by the contractor.

If you wish to have the booster pump controlled automatically by water surface stages in the well and storage tank, you will need to request the contractor to design the electrical hookup.

P. E. Smith
Supervisory Engineer

In duplicate

Attachment

Copy to: Reg. Dir., Reg. Three
Mr. Marsh, Globe, Ariz.
Const. Rep. L. Smith
Chief of D&C
Chief, Water Resources Section

In reply refer to:
L3035-L

WR
G

July 3, 1958

Memorandum

To: Regional Director, Region Three
From: Chief, Water Resources Section
Subject: Request for Permission to Drill Well, Navajo Tribal Council, Canyon de Chelly

Your memorandum of June 25 to the Superintendent presents opinions by Mr. Barton which I had gained before in discussing the opposite situation. The difference is that I have previously considered the Federal rights to use water.

As I understand it, the existing wells intercept water in a "well defined underground channel" (the arroyo). I believe that a search of some of my early file would also reveal that some of the subsurface flow originally emerged as seeps or springs.

Waters of the type which I have described have been subject to appropriation since at least as early as 1931. However, this water must normally flow out of the relatively small monument, into the surrounding Navajo Reservation, where the United States has claimed that Indian rights were superior to any Federal rights we might establish under state law.

It is not clear from Mr. Berger's memorandum, but I assume that the Tribal well would not be in the arroyo, but about one quarter mile back from the rim. Such a well would probably intercept percolating water which is not in a well defined underground channel. However, I question my interpretation because I do not see why the Tribal Council would have confidence in obtaining adequate water except in the arroyos or canyons where the percolating water ultimately becomes concentrated in well defined channels.

We have deferred any final action on Federal rights to waters for the monument because: (1) there was certain lack of confirmation that the situation is as I have described it; (2) there has been lack of final legal instructions; and (3) there was the probability that the Bureau of Indian Affairs would protest any filing in compliance

with the state water laws as it did in connection with rights to Pipe Springs. The original opposition to a filing for Pipe Springs was while the Walker River case was being tried. That situation has further changed since the United States has now introduced claims to two thirds of the waters of Pipe Springs, in compliance with the tri-party agreements and secretarial regulations in Arizona vs. California.

Accordingly, this might be a good time to obtain a complete description of the situation, and definition of the basis of Park Service rights, or the action which should be taken to clarify them.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Canyon de Chelly
Chief, WODC
Regional Solicitor Barton
Assistant Solicitor, Parks, w/c memo of 6/25
Mr. Carr
A. V. Dunn

AvVDunn:let

W R Coffey
L54
(x)L3035

Region Three
Santa Fe, New Mexico

JUN 25 1958

Memorandum

To: Superintendent, Canyon de Chelly
From: Regional Director
Subject: Request for Permission to Drill a Well,
Navajo Tribal Council, Canyon de Chelly

Your memorandum of June 11 refers to the possibility of drilling a well and placing a windmill in an area of the Monument known as "Peach Orchard," approximately two miles beyond the White House Overlook road and approximately one-quarter mile from the Canyon rim.

Canyon de Chelly National Monument was established by Proclamation No. 1946, April 1, 1931 (47 Stat. 2448) and the boundaries were revised by Proclamation 2036, March 3, 1933 (47 Stat. 2562). Both proclamations contained language stating that the supervision, management and control should be under the Director of the National Park Service, under the direction of the Secretary of the Interior and both proclamations refer to the Act of August 25, 1916 (39 Stat. 535).

Notwithstanding the language of the proclamations, the act of February 14, 1931 (46 Stat. 1161), under the authority of which the proclamations were issued, fairly clearly defines the nature of the title to the real property used for monument purposes. The first clause of Sec. 2 of that act reads as follows: "That nothing herein shall be construed as in any way impairing the right, title, and interest of the Navajo Tribe of Indians which they now have and hold to all lands and minerals, including oil and gas, and the surface use of such lands for agricultural, grazing, and other purposes, except as hereinafter defined;"

Since the title to all the lands was then in the United States in trust for the Navajo Tribe, it is still in that status. It is the opinion of the Field Solicitor that Congress could have divested the Tribe of its equitable title but did not choose to do so. Instead, with the consent of the Tribe, it impressed the lands within the monument boundary with an incorporeal interest in the nature of an easement. This easement is limited to uses for monument purposes. Insofar as necessary monument uses are concerned, the easement represents a dominant tenancy and the Navajo Tribe is a servient tenant. However, it is the opinion of the Field Solicitor that the general law of dominant and servient tenant includes the right of a servient tenant to make such use of the land covered by an easement as does not interfere with the enjoyment of the easement by the dominant tenant. Under those principles it is difficult to see how the proposed well would amount to such an interference, and unless it does, it would appear that the Tribe can install the proposed well without making any showing that it was granted the right to do so at the time the Monument was established.

Although a Special Use Permit might not be necessary, we believe it is preferable to grant one and suggest the term be a reasonable length of time not to exceed 20 years.

If the Tribe could be induced to place the well at a point which will minimize the damage to the scenic qualities of the Monument, that would be much appreciated. Will you please see what can be done by personal contacts in that connection.

(SIGNED)

Hugh M. Miller
Regional Director

Copy to: Director(2),
with attachment
Field Solicitor Barton



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Canyon de Chelly National Monument
Chinle, Arizona

IN REPLY REFER TO

154

June 11, 1958

Memorandum

To : Regional Director, Region Three
From : Superintendent, Canyon de Chelly
Subject: Request for Permission to Drill Well

Recently we were approached by the President of the Chinle Chapter of the Navajo Tribal Council regarding the possibility of drilling a well and placing a windmill in an area of the Monument known as Peach Orchard. Peach Orchard is about two miles beyond the White House Overlook road and approximately one-fourth mile from the Canyon rim.

According to Mr Reed Winnie, Chapter President and Mr Zhealy Tso, Tribal Judge at Chinle, permission for drilling the well and placing the windmill was granted to the Tribe at the time they consented to the establishing of the Monument within the Navajo Reservation. Apparently the Indians source of water in this particular area has dried up or petered out and they now have to haul water for a considerable distance or take their flocks into the Canyon.

Perhaps this matter has been brought up before however, I can find nothing in our files regarding permission having been granted for the drilling of a well and placing a windmill in this or any area of the Monument.

I tried to explain to these gentlemen that I did not feel it would be possible for them to drill a well within at least one-half mile of the Canyon rim since that is considered the Monument boundary and any development, other than National Park Service development, would not be permitted.

Paul A. Berger
Superintendent

Mr. Burney.

May 23, 1945.

A. van V. Dunn.

With reference to the attached memorandum of May 16 from Region Three pertaining to water right schedule applicable to the concessioner at Canyon de Chelly National Monument, Mr. Richey wants to discuss this case while here.

The print has no scale on it, but at 40'-1", which I think is right, the National Park Service well is just 180' from the windmill of the Thunderbird Ranch. Arizona has a correlative underground water law by which the senior appropriator is protected against depletion of his source by later appropriators, making the Federal water rights very poor if a dispute should materialize.

AvVD:sh.

A. VAN V. DUNN
Chief, Water Rights Division.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

AUG 12 1943	
ROUTING	Date
<i>WJ</i>	<i>8/12</i>
<i>D</i>	<i>8/13</i>
FILE	

August 7, 1943.

MEMORANDUM for the Regional Director, Region Four.

Reference is made to Attorney Johnson's memorandum of August 4 relative to the water rights at Canyon de Chelly National Monument.

The monument was established by the Presidential Proclamation under authority of Act of Congress of February 14, 1931, (Public, No. 667 - 71st Congress), Sections 445A and 445B of Supplemental No. 6 to the Code of the Laws of the United States, 1932, Title 16, state that the rights and privileges of the Navajo Indian are not effected in any matter by the establishment of Canyon de Chelly National Monument, but that the National Park Service in its administration of the monument has the responsibility for the maintenance, preservation and restoration of the pre-historic ruins or other features of scientific or historical interest within the area and the right to construct such structures of improvement as may be necessary in connection with the administration and protection of the monument.

The Park Service in the winter of 1935-36 drilled a well from which it has not only been obtaining its own water but also furnishing water to numerous Indians visiting the adjacent trading post. As this well was drilled under the above-mentioned provisions and since a water right is not required for a well in the area, it is felt that no action is required on our part to perfect any right in this area.

Ross A. Maxwell

Ross A. Maxwell,
Acting Regional Director.

cc: Director

April 2, 1943.

MEMORANDUM for the Director.

Acting Regional Director Richey of Region Three brought up the question with Mr. Dunn last month as to how our water rights stood at Canyon de Chelly. Enclosed is a copy of Mr. Dunn's memorandum of April 1 to me on this subject.

This is one of the monuments that has never been visited by any member of the Water Rights staff. Mr. Dunn's memorandum states that all land in the monument is said to belong to the Indians but is not in an Indian Reservation. He also states that the Indians have used water for generations at this monument. Of late years I believe the Park Service has drilled a well which serves the monument. It would seem as if the Indians have prior rights to any water there, but we are wondering if the Park Service is in any danger of having its sparse needs at that monument invaded. As I understand it, our usage is very small there, and there may be no likely conflict.

I do not see any present necessity of making a filing at Canyon de Chelly if the above statement of facts is correct.

ALJ:SH

Albert L. Johnson,
Attorney.

Enclosure 2136690.

cc: Region Three, with enclosure.
Supt., S.W.Mons., with enclosure.

FILE COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
SAN FRANCISCO, CALIF.

April 1, 1943.

MEMORANDUM for Attorney Albert L. Johnson.

As a result of conversation with Mr. Richey in March, I think we should assemble a more complete file on the status of water rights and land at Canyon de Chelly.

All land in the monument is said to belong to the Indians, but is not an Indian Reservation. The McSparron Trading Post exists under some form of permit which the Park Service has taken over from the original permittee. In turn, the Park Service issued a special use permit to McSparron.

The Park Service has since drilled a well which serves the monument. However, the Indians have used water for generations and are still doing so from small springs on the area.

A. van V. Dunn

A. van V. Dunn,
Hydraulic Engineer.

(Copies mailed Director, Region Three, and Supt., S.W. Mons., April 2, 1943.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HEADQUARTERS, SOUTHWESTERN MONUMENTS
COOLIDGE, ARIZONA

REC'D JUL 1 1937
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June 29, 1937.

Mr. Joseph E. Taylor, Attorney,
Branch of Land Acquisition & Regulation,
National Park Service,
110 Sutter Street,
San Francisco, California.

Subject: Water Rights

Dear Sir:

Canyon de Chelly Natl Monument

As promised Mr. Johnson, we have requested the Associate Regional Geologist, Mr. Vincent W. Vandiver, to prepare a report on the water rights situation at Canyon de Chelly National Monument.

Mr. Vandiver's report, with photographs, is enclosed.

Cordially,

Frank Pinkley

Frank Pinkley,
Superintendent.

cc: Vandiver

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Santa Fe, New Mexico
June 25th, 1937

Mr. Frank Pinkley, Superintendent,
National Park Service,
Coolidge, Arizona

Subject: Water Rights Canyon de Chelly N. M.

Dear Mr. Pinkley:

With further reference to my letter of June 2nd and your letter of May 17th to Mr. Collins on the above subject I am enclosing herewith your file complete.

I am also enclosing a copy of the log of the Canyon de Chelly well together with other data most of which has kindly been supplied by the Navajo Indian Service. Four photographs of the well location with respect to the wash and the rocks in the surrounding area are likewise attached. I am sending the negatives to these photos to Dr. Gould at Okla. City and in the event that you wish extra prints kindly request them from him as this is where we have to send for our printing.

From the log of the de Chelly well it is difficult to say as to whether it is producing from the valley fill alluvium or a coarse sandstone lense in the Chinle formation. *note* It is probable that the red sandstone encountered at 59 feet is the top of the Shinarump conglomerate. It appears quite likely that the Chinle has been removed from the valley floor and that the Shinarump is the surface upon which the wash alluvium was deposited. In any case I think we can safely say that the water in the well is percolating water or water from the subsurface flow of the wash. While I am not familiar with the Arizona law I believe this will answer your question.

I recently visited Canyon de Chelly and Montezuma Castle in company with Mr. Trager and Dr. Gould and at the time we inspected the well sites and talked over the matter of water rights. I am sending them copies of this correspondence and if they have any comments I am sure they will communicate with you. The contours and location of the well are shown on the master plan for the Monument.

It appears that the report on Montezuma Castle well answers the question satisfactorily. There is little question that the water in the well is coming from a sub-surface flow of Beaver Creek although we have no log of the well and very little other information regarding same. *note*

Enclosure
cc Regional Office and Dr. Gould
District Office
Mr. Earl Trager (Berkeley)

Very truly yours,
Vincent W. Vandiver
Vincent W. Vandiver,
Associate Regional Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Santa Fe, New Mexico
June 25th, 1937

National Park Service Well at Chinle, Arizona

CANYON DE CHELLY NATIONAL MONUMENT

BEGAN WELL: January 1st, 1936

FINISHED WELL: January 16th, 1936

DIAMETER OF WELL: 8 inches

DEPTH OF WELL: 100 feet

SURFACE OF GROUND TO WATER: 3 feet

QUANTITY OF WATER ON TEST RUN: 69,120 gallons per day *48 gpm*

KIND OF CASING: Screw SIZE: 6-5/8-inch, O.D.

SCREEN, kind: MC Avey Button LENGTH: 8 feet

DRILLER: Burt S. Cravath

REMARKS: Casing to bottom of hole and strainer between 53' and 61'.

		<u>LOG</u>		
<u>FROM</u>	<u>DEPTH</u>	<u>TO</u>	<u>FORMATION</u>	<u>REMARKS</u>
Surface		8 feet	Sand	
8 feet		46 feet	Sand and silt	Water
46 feet		50 feet	Sand and Gravel	Water Horizon
50 feet		59 feet	Sand	
59 feet		100 feet	Red Sandstone	

Note: Water level in the well is 3 feet below the surface and drops to 20 feet below the surface when water is drawn at rate of 25 g. p. m. Pumping equipment consists of 3 h.p. engine driving a deep well pump furnishing 10 to 15 g.p.m. was installed by WPA in 1936. Water is pumped 1000 feet through 1 1/2" line to 5000 gallon concrete reservoir south of Custodians residence.

Data from Navajo Indian Service and Master Plan

Vincent W. Vandiver, Associate Regional Geologist
Santa Fe, June 25, 1937



Photo No. 1: View of the Custodian's residence and the Thunderbird Guest Ranch at Canyon de Chelly National Monument. The location of the N.P.S. 100' well is indicated by the arrow. The Guest Ranch has a 20' dug well at the site of the windmill. Across the wash may be observed outcrops of the de Chelly sandstone and the Chinle shales. The beds are dipping in a general westerly direction at 5 or 6 degrees.



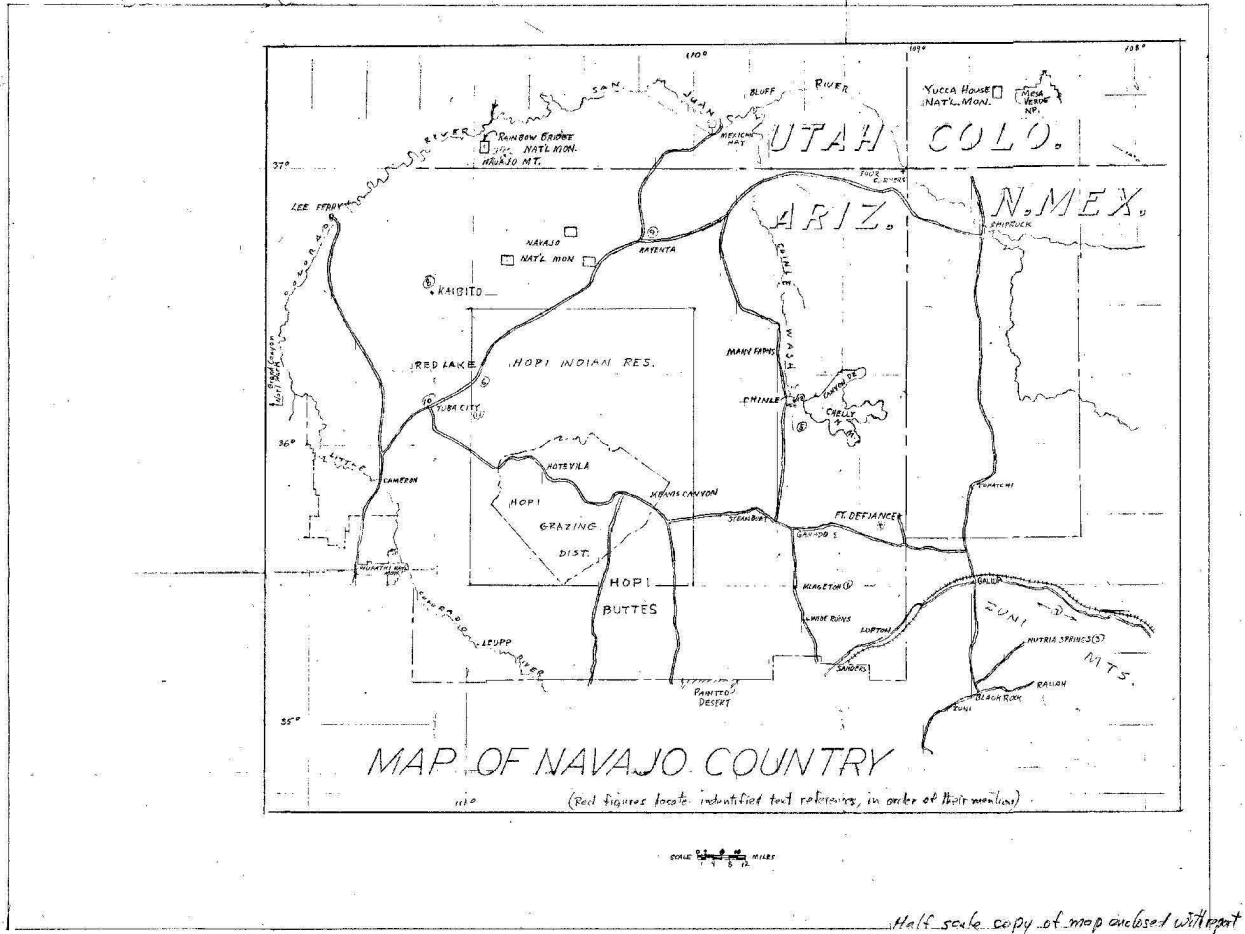
Photo No. 2: View along the road leading into Canyon de Chelly. The contact of the Chinle and Shinarump with the de Chelly sandstone below may be seen in the center of photo.

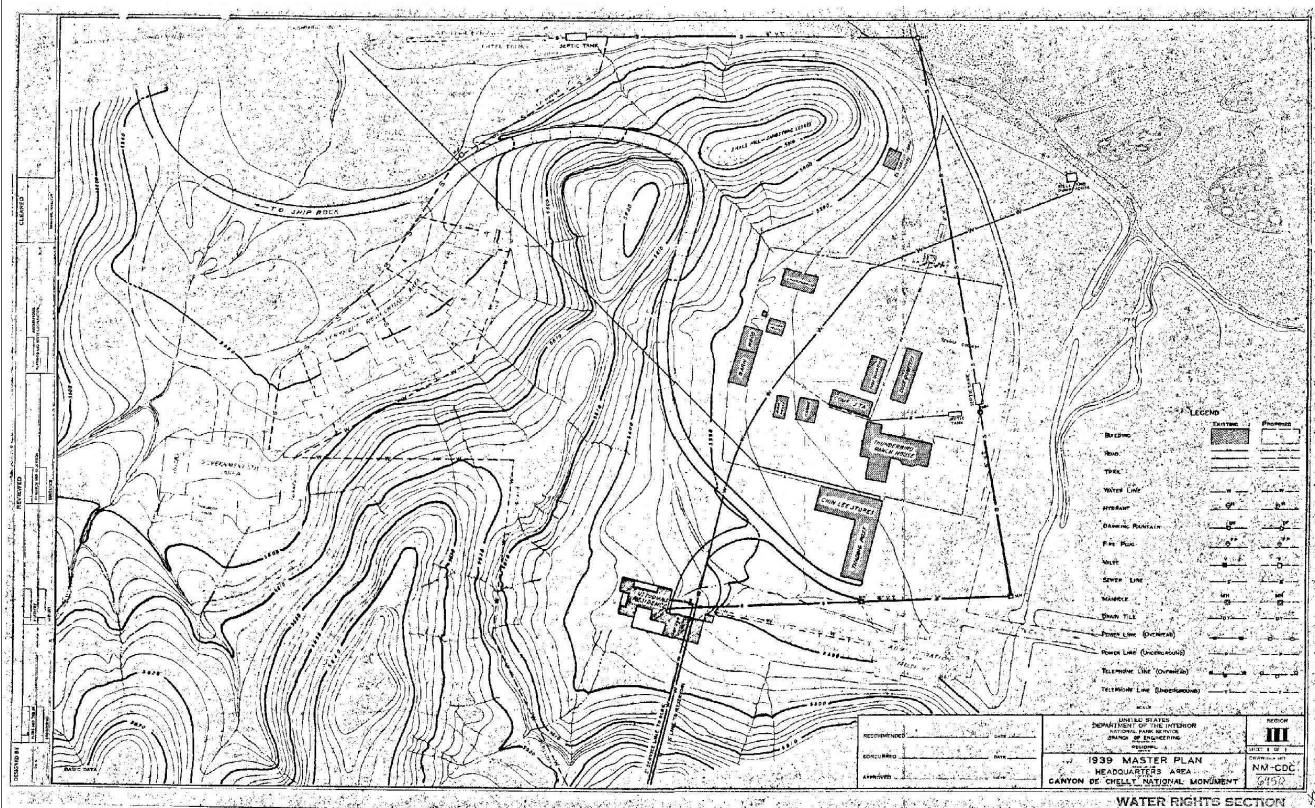


Photo No. 3: Location of the de Chelly well with respect to the wash beyond. The low hills in the distance are composed of Chinle shales and sandstones.



Photo No. 4: A closer view of the de Chelly well location with respect to the wash at the right. View is taken looking northwest with Chinle shales in the background.





Docket Information

Number of Documents in Docket 47

Documents Dated from 6/25/1937 to 9/18/1995

Docket Compiled: 2/1/2011