



WATER-RIGHT DOCKET

Chaco Culture National Historical Park

Docket No: 3

FAJADA VIEW WATER SUPPLY

Preliminary Docket Information

00-00-0000: water docket information

W A T E R D O C K E T I N F O R M A T I O N

A R E A CHACO CANYON N M

DOCKET NO. 3

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

TITLE OF DOCKET FAJADA VIEW WATER SUPPLY (NEW HEADQUARTERS AREA)

PRIORITY

REMARKS:



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
CHACO CULTURE NATIONAL HISTORICAL PARK
STAR ROUTE 4, BOX 6500
BLOOMFIELD, NEW MEXICO 87413
(505) 988-6727, 6716



L54

October 10, 1995

Memorandum

To: Owen Williams, Chief, Water Rights Branch
From: Natural Resources Specialist, Chaco Culture NHP
Subject: Water Rights

In response to your memo dated 8/25/95, I have searched through all files in the park and am only able to provide the attached information. Either not much has transpired on water rights at Chaco in the past 15+ years, or correspondence has yet to catch up to the files. You folks may even already have this in your records.

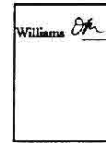
At this time, there is only one working well in the park and that is the source for all public and staff use (well no. 21.10.21.344A,B). The second well, right beside the first, is a monitoring well only and has been plugged though not permanently. On the attached Declaration of Ownership is the only part location description I can find. We have no idea of a water spreading ditch system you refer to. Our Maintenance/Water Treatment Plant Operator, Teddy Dempsey has all the working knowledge of water in the park and says "that's all there is".

Please let us know if you should need more data.

Herschel E. Schulz

Encs.





August 25, 1995

L54(479)

Memorandum

To: Superintendent, Chaco Culture National Historical Park

From: Owen Williams, Chief, Water Rights Branch

Subject: Water Rights

As you may be aware, the National Park Service's repository of water rights information, including permits, certificates, etc., is located at the Water Rights Branch in Fort Collins, Colorado. These items are presently housed in "fireproof" cabinets in our offices. To better protect these important documents and lengthen their useful life, we have begun a project to put the information contained in the water rights "dockets" onto CD-ROM for day-to-day use. Once the information is on CD-ROM, the paper documents will be transferred to an off-site "disaster protection repository". Parks, SSOs, etc., will eventually receive copies of the electronic versions for their own use.

In preparing the files for transfer, we are reviewing each of the thousands of pages of documentation. In doing so I have determined that the dockets for Chaco Culture park were in need of, at least, a few pieces of additional information. Thus, this memo is written to request a couple of minimal items. More may be needed in the future, but the timing may be more "relaxed". Specifically, to tentatively identify the basic legal doctrine under which water is being used, we must know the land ownership history for those parcels on which NPS wells are located. Our dockets indicate there are two wells producing water at Chaco Culture park. While we have park land status information, the dockets lack information on the precise location of the wells.

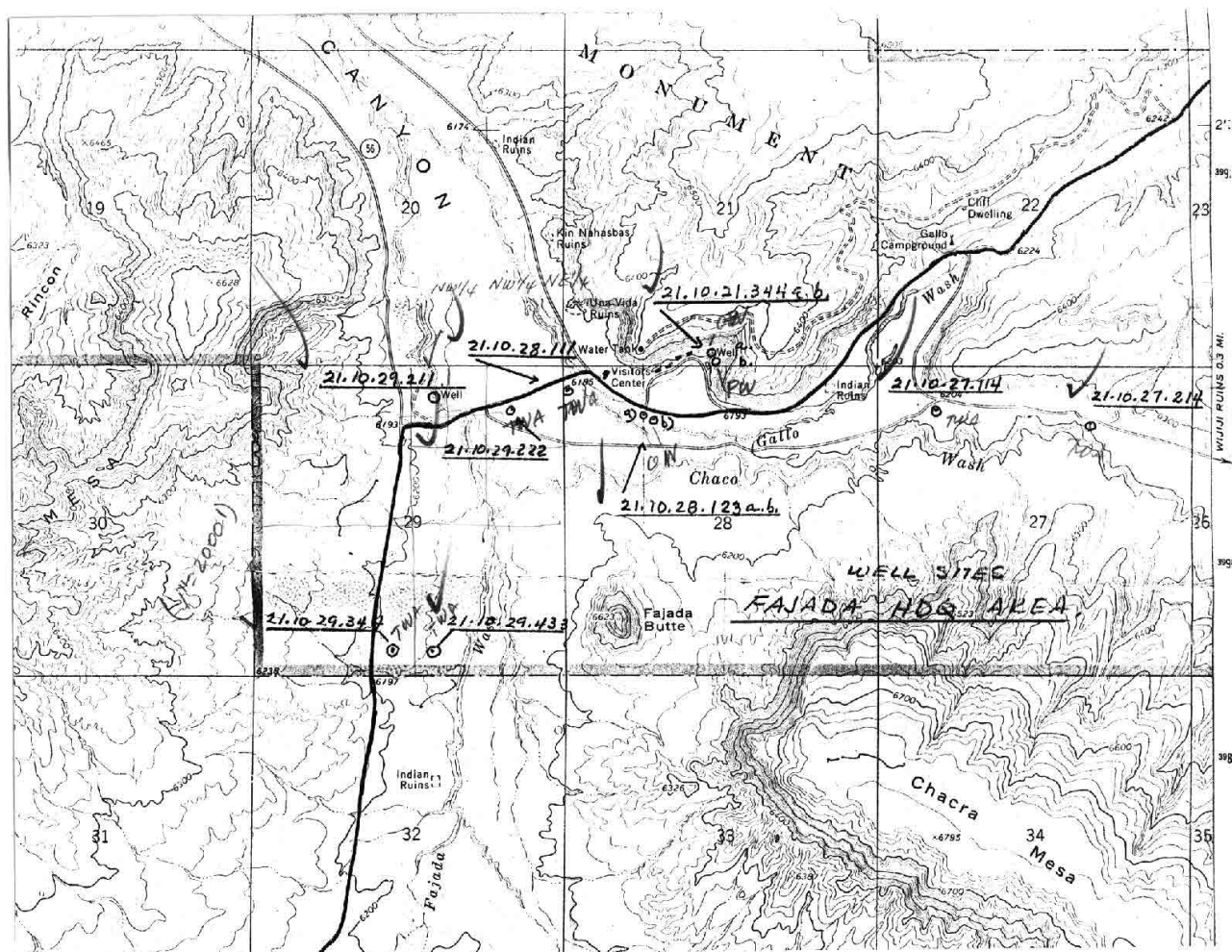
Please provide us with the aliquot part location descriptions for each well to as fine a level of detail as practical. This will allow us to make a preliminary determination as to whether the wells are covered by state or federal law. It may go without saying, but we would appreciate any additional information available concerning water development and use at the park. The minimum that we need, though, is the location of water developments, location of use, too, if possible.

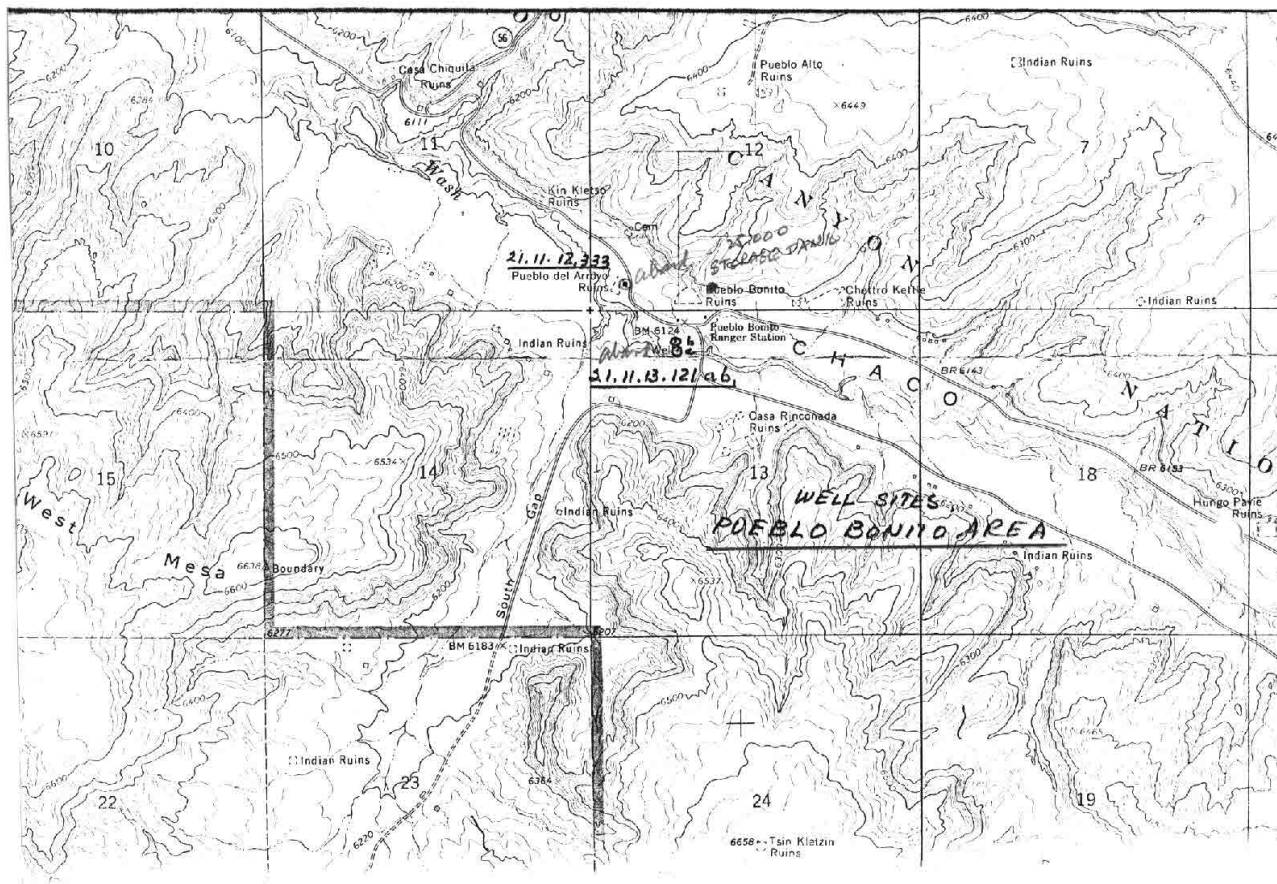
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Let me add that we have docketts for two wells and a water spreading ditch system only. If there are other water developments in the park we need information on those as well so that we may document them and take action, if necessary, to guarantee their protection under state or federal law. Thanks for you assistance. Call me if you have questions at (970) 225-3505.

cc: IMFA-CPS - Wise
479(cc:mail) - Kimball, Flora, Jackson, Kliwinski, Walker, Berger

FNP:OWILLIAMS:jar:8/25/95:s:\wrb\orw\chcu.mem





Other Supporting Information

Form 10-174 (June 1962)		UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE		App. Order No. 10-7 JICA	
FACE SHEET FOR COMPLETION REPORT				Fund Symbol 14X1035	
Park Chaco Canyon National Monument	Region Southwest	Year Programmed 1963			
Location in Park Utility area to campground	State(s)	PCP No. 1-18			
	County or Counties	Master Plan No. CCNM-2040-D			
☒ Contract and/or ☐ Day Labor		Master Plan Corrected By			
Work Order Title Construction of water system extension, Gallo Wash Campground		As Built Drawings By			
		Date Started July 30, 1963			
		Date Completed September 24, 1963 ✓			
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		TOTAL COSTS (For completion by FPO)			
100,8 Utilities - water system		10,924.46			
TOTAL		\$ 10,924.46			
DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES			
No.	To	Submitted	Title	Date	
1	WASO	By: _____	Project Supervisor	10/1/63	
1	WODC	By: _____	Superintendent	10/2/63	
2	Southwest Reg.	By: <i>Henry Alaraz, Jr.</i>	Regional Accountant	11/20/63	
1	Chaco Canyon	By: _____			
COSTS VERIFIED					
BY <i>Henry Alaraz, Jr.</i>					
Henry Alaraz, Jr.		11340			

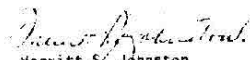
**Narrative Section, Completion Report
Construction of Water System Extension to Gallo Campground, Chaco Canyon
Ed. H. Foster's Son, Contract No. 14-10-0333-1081, of June 28, 1963**

1. Ed. H. Foster's Son, 125 West Maple, Farmington, New Mexico was awarded the contract to construct the extension of the waterline to the Gallo Campground on June 28, 1963. Notice to proceed was acknowledged on July 17, 1963 and acceptance of the completed contract was made on September 24, 1963, well before the final date when the contract was to have expired. The contract price was \$8,976.50.
2. The contract involved the installation of 5,200 linear feet of 2½" polyvinyl-chloride water pipe, 235 linear feet of 1" galvanized steel drain pipe, an air-vacuum valve with box, two risers, and one ¾" campground hydrant. Change Order No. 1 provided for the installation of one pipe-drain assembly, to replace one drain riser and hand pump assembly, as originally specified.
3. Change Order No. 1 of August 13, 1963 authorized the contractor to make changes required to correct deficiencies and omissions which had been disclosed subsequent to the original specifications as bid. This change order increased the contract price by \$607.70. An allowance of ten additional days was made on the contract period to compensate for the extra work involved.
4. The project supervisor assigned to inspect the construction for compliance with specifications and construction procedures was Mr. Frank A. Matteson of the Western Office of Design and Construction, who made such inspections periodically, travelling from his headquarters at Bandelier National Monument.
5. After preconstruction conferences, the contractor's supervisor set up a house trailer in a designated site adjacent to the utility building and began actual excavation on July 30. Work progressed fitfully thereafter because of breakdowns of equipment and unfamiliarity with the installation of PVC pipe. A second supervisor replaced the first one on August 28, after which accomplishment improved.
6. The award of this contract to Ed. H. Foster's Son of Farmington, N. M., is considered to have yielded a very acceptable standard of construction. The contractor, Mr. George Foster, was found to be cooperative in all respects and eager to produce a good job.
7. An "as constructed" drawing has not yet been prepared.
8. Personal observations concerning the use of polyvinyl-chloride water pipe include:
 - a. Initial cost, and cost of installation, is less than the equivalent galvanized steel pipe while strength is as great or greater.The PVC pipe is very responsive to temperature changes, expanding, contracting and twisting in an open trench. Much care must be exercised to make sure that the joints are properly aligned, and that the

cement is allowed full time to "set" before the pipe is moved, after which one workman can handle several 20 foot sections with ease. The pipe is zig-zagged in the bottom of the trench to allow for contraction to the extent that about 5,240 linear feet of pipe is required in a direct run of 5,200 feet.

b. The introduction of an installation of PVC pipe promises to present some disadvantages in future maintenance in that, in this instance, the plastic pipe and fittings are apparently not available closer than the West Coast. This may prove inconvenient and expensive when fittings for repairs or extensions are needed without delay.

The introduction of the PVC system will also mean that an additional small stock of plumbing fittings must be carried for maintenance purposes and that unfamiliar installation procedures will be presented to the Navajo workman, who are not yet too familiar with the procedures used in the installation and repair of the usual iron pipe and fittings.


Merritt S. Johnston
Superintendent and
Contracting Officer

Form 10-174
(Rev. 1/54)UNIT STATES DEPARTMENT OF THE INT OR
NATIONAL PARK SERVICE

REPORT 7 SPL

COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION	AREA	COUNTY	STATE
Three	Chaco Canyon National Monument	San Juan	New Mexico
PROJECT OR JOB TITLE	PCP NO.		
Utilities, Water and Sewer Systems, Headquarters Area, Chaco Canyon	U-10 and U-7-1		
LOCATION IN AREA	MASTER PLAN NO.	BUILDING NO.	
Headquarters Area, Fajada View	none	none	
WORKING DRAWING NO. AND TITLE			
Sewer System, NMCC 3108A. Water System, NMCC 3108A, Utilities, Water & Sewer, Chaco Canyon			
APPROPRIATION TITLE AND SYMBOL		ACCOUNT NO.	
U-1035 Construction		332.1 (Portion)	
CONTRACT NO.	DATE WORK STARTED	DATE WORK COMPLETED	
14-10-333-253	November 10, 1957	February 24, 1958 ✓	
NAME OF CONTRACTOR		ADDRESS	
Riverside Construction Corporation		804 East Main Street, Farmington, New Mexico	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
Well Installation, 15' Dia. 30' deep, CMP	1	9,850.00	9,850.00
Sealing existing well	1	250.00	250.00
Pumping plant, inc. metal bldg., pump, motor, complete	1	1,970.00	1,970.00
2" pipe at Gallo Wash, incl. crossing, insulation	1	1,352.48	1,352.48
350 ft. galv. pipe, 2", @2.60 per ft.	350	2.40	910.00
40 ft. steel reservoir, built on site	1	11,128.00	11,128.00
6" transite pipe, 2242 ft. @4.38 in place	2242	4.38	9,819.96
6" galv. pipe installed up cliff & in rock @21.58	339	21.58	7,315.62
Concrete valve box for 6" gate valves & junction	1	435.00	435.00
Fire hydrants, standard city type, installed	5	311.27	1,556.35
Service connections, 3/4 inch, residences	6	99.56	597.36
Copper tubing, 3/4 inch, 157 ft.	157	1.23	193.11
Service connection, 2 inch, to Visitor Center	1	169.48	169.48
Copper tubing, 2 inch, 60 ft.	60	1.60	96.00
TOTAL, Water System			\$ 45,643.36
8 inch vitrified tile pipe, sewer, 462 ft.	462	2.40	1,108.80
1 sewage disposal, septic tank, field, unit	1	8,000.00	8,000.00
2 manholes in place	2	223.00	446.00
TOTAL, Sewer System			9,554.80
Plus Change Orders No. 2 and 3			CONTRACT TOTAL \$ 55,198.16

Facilitating Services		SUMMARY OF EXPENDITURES	
PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES	
	Field Finance Office Clearance:	\$ 56,273.16	
OTHER	Robert L. Giles, Regional Accountant 6/10/58		
\$ 56,273.16			

CHANGE ORDERS			
ORIGINAL CONTRACT AMOUNT	FIRST	SECOND	THIRD
\$58,842.46	Deduct- \$3,595.69	Add - \$100.00	add-\$475.00
FINAL CONTRACT AMOUNT	FOURTH deduct \$48.61	FIFTH	SIXTH
\$ 55,773.16	Adj. underruns	-	-

THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH
APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES

SUBMITTED BY (Name and title)	DATE
APPROVED BY (Name and title)	DATE
Charles C. Sharp, Superintendent <i>Charles C. Sharp</i>	May 26, 1958

NARRATIVE SECTION, COMPLETION REPORT, UTILITIES, WATER & SEWER

RIVERSIDE CORPORATION, CONTRACT NUMBER 14-10-333-252

CHACO CANYON NATIONAL MONUMENT

Riverside Construction Corporation of Farmington, New Mexico, was awarded the contract to construct a water system, including an additional well at the CCC Well Site in the Chaco Wash, a distribution system, and storage tank.

As part of the same contract, Riverside Corporation constructed a sewer system for the Visitor Center, including sewer line, septic tank, distribution box, and leaching field. Both jobs were carried along at the same time, with work proceeding on components of each as indicated by needs for best use of manpower and equipment, and to fit weather conditions.

The contractor started moving materials and equipment to the site during the week ending November 10, 1957, and began excavating for placement of the water tank on top of the mesa above the headquarters area. Access to the site was made feasible by a bench in the sandstone cliffs, which sloped down almost to the canyon floor some two miles above the headquarters, and a road was laid out following the contours, without too much difficulty. This construction road is well hidden by the nature of the terrain, and is visible only on one or two short stretches.

Before the job had actually started, WODC Construction Supervisor Charles Novak, Contractor H. G. Cozzens, and Superintendent Sharp discussed several changes, after examining the project on the site. Engineer Novak and the superintendent discussed proposed changes with the Region Three Office, and worked out Change Order No. 1, embodying four items in the water line installation, which resulted in two major changes.

1. The underground crossing of the Gallo Wash, with a 2 inch supply pipe, was changed to an insulated overhead crossing, which was more desirable due to flood hazards and to the present downcutting tendency of this wash. This crossing is just below terrain level and does not show.

2. The two-inch supply line up the cliff to the storage tank was omitted, and this line connected to the 6 inch transite distribution line near the Visitor Center, thus converting the installation to a floating system. This cost some \$3,595 and simplified the installation. It would have been very difficult to run two lines up the crevice in the cliff and put on the volume of insulation required.

Other changes were minor, involving adaptation of line gradient to fit the terrain better, and installation of an additional service connection.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Chaco Canyon NATIONAL MONUMENT

Blomfield, New Mexico

July 23,

19 47

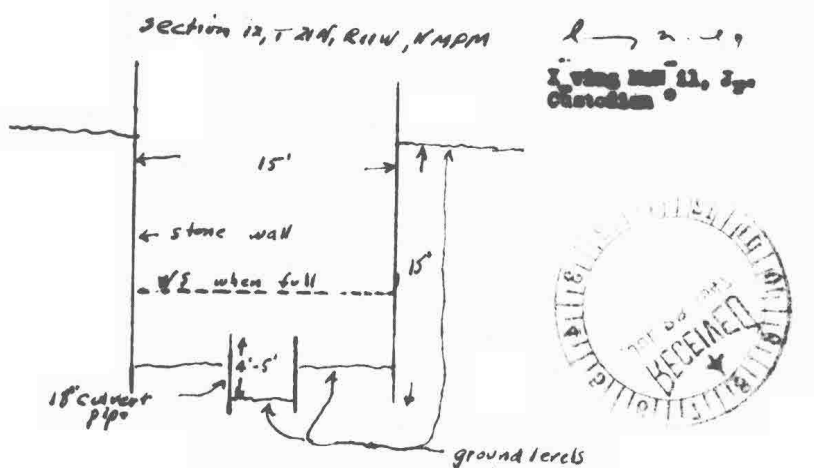
MEMORANDUM for the Regional Director, Region Three,
National Park Service.

Reference is made to the memorandum from Regional Engineer Lassiter, which requests information about the water well here at Chaco Canyon National Monument for the Water Rights Division.

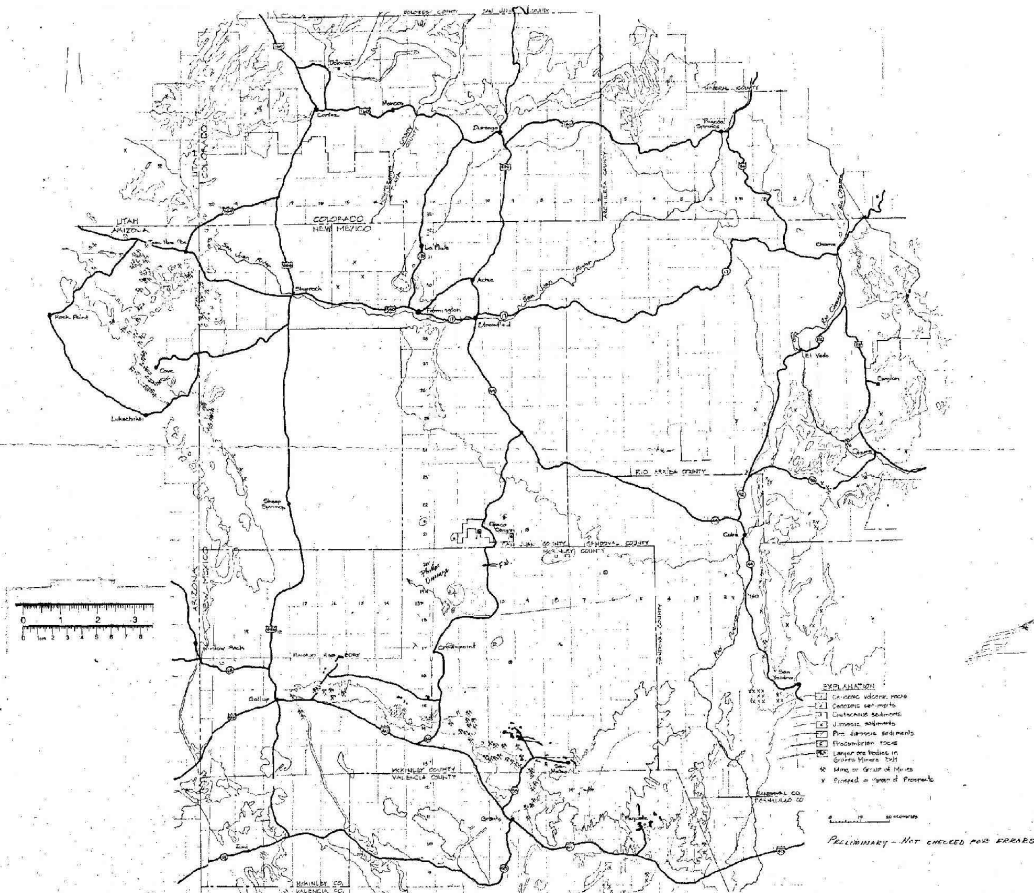
The well is a shallow, dug one. There is a rock wall enclosure with a roof over it. The roof is flush with the ground. The enclosure is approximately 15 feet in diameter and 15 feet deep. Inside the rock enclosure is a corrugated pipe culvert which is estimated at 5 feet long and 4 feet in diameter, which is set on end. The water is pumped from within the culvert, which is used as a casing. The depth of the water is estimated, when the well is full, at 4 feet.

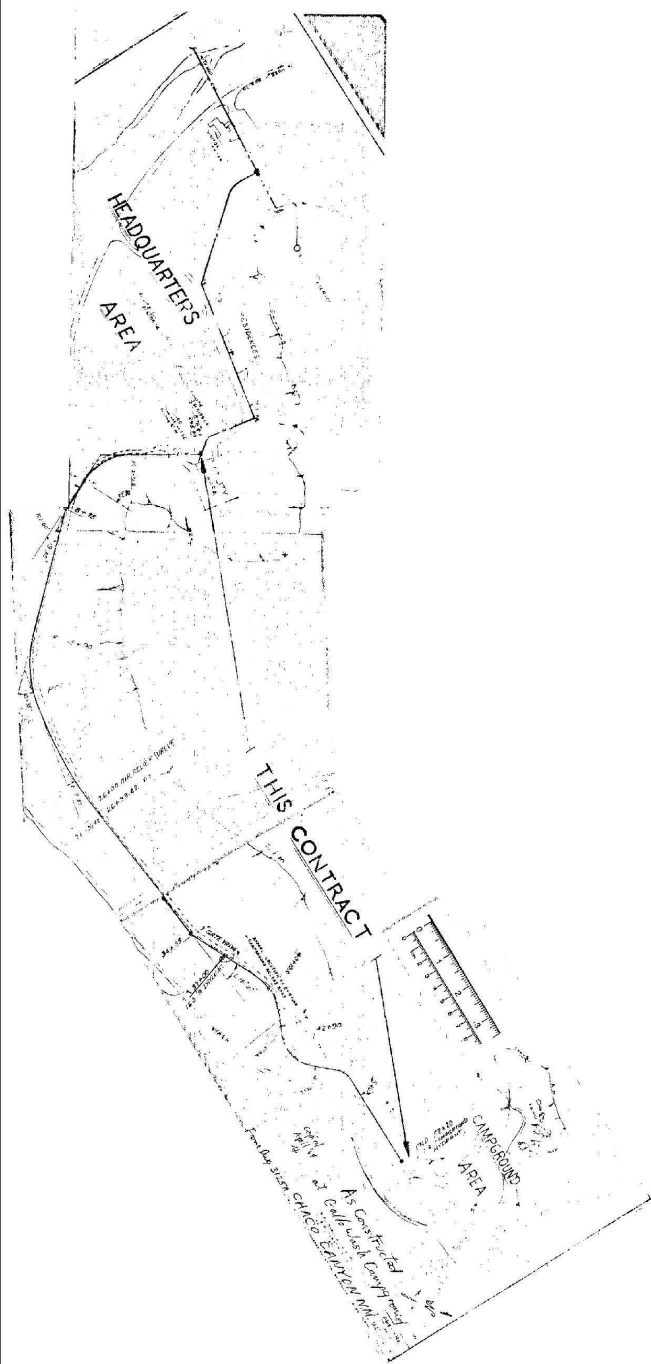
The suction line is 12 feet long. The water is pumped, from the pump, 65 feet up and through at least 2200 feet of pipe.

The pump is a Red Jacket O-500 with a capacity of 500 gallons per hour at this elevation which is a little over 6000 feet. The pump is powered by a Briggs and Stratton gasoline engine of 1 1/2 horse power, at 2000 to 3600 revolutions per minute.



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Docket Information

Number of Documents in Docket 16

Documents Dated from 7/23/1947 to 10/10/1995

Docket Compiled: 2/3/2011