



WATER-RIGHT DOCKET

Lake Roosevelt National Recreation Area

Docket No: 13

HUNTER'S CAMPGROUND

Preliminary Docket Information

05-29-1968: water docket information ; may 29, 1968

WATER DOCKET INFORMATION

A R E A COULEE DAM N.R.A.

DOCKET NO. 13

APPLICATION NO. 9488

PERMIT NO. 8699

CERTIFICATE NO. 6227-A

TITLE OF DOCKET HUNTERS CAMPGROUND

PRIORITY May 29, 1968

REMARKS: _____

CERTIFICATE RECORD No. 13 Pa. No. 6227-A **392315**
 STATE OF WASHINGTON, COUNTY OF Stevens

Certificate of Ground Water Right

Issued in accordance with the provisions of Chapter 283, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Water Resources thereunder.

THIS IS TO CERTIFY That UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE
 of Coulee Dam, Washington, has made proof
 to the satisfaction of the Department of Water Resources of Washington, of a right to the use of
 the ground waters of a well
 located within NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Sec. 1, Twp. 30 N., R. 36 E.W.M.,
 for the purpose of domestic supply for public campground
 under and subject to provisions contained in Ground Water Permit No. 8699 issued by the De-
 partment of Water Resources and that said right to the use of said ground waters has been perfected
 in accordance with the laws of Washington, and is hereby confirmed by the Department of Water
 Resources of Washington and entered of record in Volume 13 at page 6227-A
 that the right hereby confirmed dates from May 29, 1968; that the quantity of ground
 water under the right hereby confirmed for the purposes aforesaid, is limited to an amount actually
 beneficially used for said purposes, and shall not exceed 20 gallons per minute; 1.5 acre-
feet per year, for domestic supply for public campground from May 1 through October 31
of each year

Special provisions required by the Department of Water Resources:

A description of the lands to which such ground water right is appurtenant:
 Hunters Campground, within: SW $\frac{1}{4}$ of Sec. 1, T. 30 N., R. 36 E.W.M.

Indexed <u>h</u>	Recorded <u>h</u>	Compared <u>h</u>	Page <u>459</u>	SEA W. ZOODESMA
Date of <u>OCT 31 1968</u>	County of <u>Stevens</u>	At <u>10:35 P.M.</u>	County Auditor	<i>David A. Richie</i>
State of <u>Washington</u>	Department of <u>Water Resources</u>		Call to:	U. S. Department of the Interior
				National Park Service
				Box 37
				Coulee Dam, Washington 99116
				Attn: David A. Richie, Supt.
			\$2.00	

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of-
 set herein described, except as provided in Sections 6 and 7, Chapter 122, Laws of 1929.

This certificate of ground water right is specifically subject to relinquishment for nonuse of water
 as provided in Section 18, Chapter 233, Laws of 1967.

WITNESS the seal and signature of the Assistant Director, Division of Water Management, Depart-
 ment of Water Resources affixed this 30th day of October, 19 68

John H. Fuller
 Assistant Director
 Division of Water Management
 Department of Water Resources

Unrecorded
10/31/68

Ground Water Permit No. 8692

**CERTIFICATE OF GROUND
WATER RIGHT**

Recorded in the Department of Water
Resources, Olympia, Washington, in Book

No. 13 of Ground Water Right

Certificates, on page 6227-A, on the

30th day of October

19 68

STATE OF WASHINGTON,

County of } ss.

I certify that the within was received and

duly recorded by me in Volume

of Book of Water Right Certificates, at

page , on the day of

, 19

STATE OF WASHINGTON
DEPARTMENT OF WATER RESOURCES
DIVISION OF WATER MANAGEMENT

Permit to Appropriate Public Ground Waters
of the State of Washington

Book No. 18 of Ground Water Permits, on page 8699 under Application No. 7-88

UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE

of Coulee Dam, Washington

is hereby granted a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights, and to the limitations and provisions set out herein.

Priority date of this permit is May 29, 1968

Source of the proposed ground water appropriation is a well

within area, sub-area

zone. Name or number of works is

Quantity of water appropriated shall be limited to the amount which can be beneficially applied and not to exceed 20 gallons per minute; 1.5 acre-feet per year, to be used for the following purposes: domestic supply for public campground

as more definitely set out below.

Location of the well, tunnel, or infiltration trench is 2050 feet west and 1000 feet north of south quarter corner of Sec. 1

being within NW1/4SW1/4 of Sec. 1, T. 30 N., R. 36 E.W.M.

county of Stevens

Use, or uses to which water is to be applied:

For municipal supply: gallons per minute; acre-feet per year, to supply

For irrigation: gallons per minute; acre-feet per year, for the irrigation of acres.

For miscellaneous uses: 20 gallons per minute; 1.5 acre-feet per year for domestic supply for public campground from May 1 through October 31 of each year.

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Hunters Campground, within: SW1/4 of Sec. 1, T. 30 N., R. 36 E.W.M.; LESS roads.

DESCRIPTION OF WORKS FROM WHICH WATER IS TO BE WITHDRAWN

The well will be drilled and have a diameter of 8 inches, and depth of 146 feet.
(Dug or drilled)

Description of tunnel or infiltration trench:

Please read carefully provisions below.

Particular specifications required by the Department of Water Resources for the purpose of preventing waste of public waters:

The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right.

Construction work shall begin on or before Started
and shall thereafter be prosecuted with reasonable diligence and completed on or before Completed
and complete application of water to proposed use shall be made on or before
October 1, 1969

Given under my hand and the seal of this office at Olympia, Washington, this 4th day of
October, 1968


Assistant Director
Division of Water Management
Department of Water Resources

Report of Examination on Ground Water

Received date May 29, 1968 Date of exam July 8, 1968 Appl. No. 9488
 U. S. Department of the Interior
 Name National Park Service Address P.O. Box 37, Coulee Dam, Washington
 Type of works a well Dimensions 8" x 146'
 Progress of works Completed
 Quantity applied for 20 g.p.m. 1.5 acre-feet per year
 Legal sub. NW1SW1SW1 Sec. 1 Twp. 30 Rge. 36 E. County Stevens
 Use Domestic supply for public campground
 Irrigation-acreage: Present Planned Feasible
 Municipal: Population as of
 Industrial
 Time pump will be operated May 1 through October 31
 Other water rights appurtenant to this land None
 Proximity to existing works, springs, wells, or streams None
 Area Sub-area Zone

RECOMMENDATIONS

Approved for 20 g.p.m. 1.5 acre-feet per year, subject to existing
 water rights. (1 acre-foot 325,850 gallons.)

The field examination of this application was conducted by Marlowe E. Miller,
 Watermaster, Water Management Region 3, District 3-B.

The annual quantity to be withdrawn, 1.5 acre-feet, is based upon the request of the
 applicant. This is equivalent to the pump being operated about 10% of the time from
 May 1 through October 31 of each year.

The installation of an access port as described in attached Ground Water Bulletin No 1
 shall be required prior to issuance of final certificate of water right. The applicant
 may, for his own convenience, wish to install an air-line and gage in addition to the
 access port.

Signed at Olympia, Washington
 this 26 day of September, 1968


 WILLIAM R. SMITH, Geologist
 Division of Water Management

S. F. No. 370-B-OS-3-62-75C.



\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
Division of Water Resources

COPY

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters
OF THE STATE OF WASHINGTON

Application No. G. W.

United States Department of the Interior
I, National Park Service

(Name of applicant)

of Box 37, Coulee Dam, Washington 99116

(Complete post office address)

do hereby make application for a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights. This application is made under the provisions of Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject to the rules and regulations of the Department of Conservation, Division of Water Resources.

1. The proposed appropriation will be from Well

(Well, tunnel, infiltration trench)

located 1½ miles from Hunters, Washington

(Give approximate distance and direction from nearest city or town)

Area Sub-area

(Leave blank)

(Leave blank)

Zone

(Leave blank)

Applicant's name or number of well or other works, if any Hunters Campground2. The quantity of water which applicant intends to withdraw for beneficial use is 20gallons per minute; 1.5 acre feet per year.3. The use or uses to which water is to be applied Domestic supply for public campground

(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)

4. The time during which water will be required each year May thru October5. Location of well or other works for withdrawal of water: In county of Stevens(a) 2050' West, 1000' North of ½ corner between Sec. 1 & 12

(Give distance and bearing from nearest corner of section or legal subdivision)

being within the NE¼, NW¼, SW¼, SW¼ of Sec. 1, Twp. 30 N., Rge. 36E, WM

(Give smallest legal subdivision)

(E. or W.)

or (b) If within limits of recorded platted property, town or city: Lot, Block,

of

(Give name of plat or addition)

(If within town or city, give name)

(c) Show this location on accompanying section plat. Other adequate maps or drawings will be acceptable.

6. DESCRIPTION OF WORKS:

(a) Well will be **drilled** and have a diameter of **8** inches and an estimated depth of **146** feet.

(b) Tunnels or trenches to be described: (Attach additional sheets if needed for full description.)

(c) Distribution system to be described: **Proposed system will consist of galvanized pipe to distribute water through the campground with connections to restrooms.**

(d) If pumps are to be used, give size and type:

Reda-submersable -deepwell

(e) Give capacity and type of motor or engine to be used:

Electric motor 3hp

(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:

Approximately 100 feet from Franklin D. Roosevelt Lake and 12 feet higher in elevation

(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein:

None		
(Name)	(Direction)	(Distance)
(Name)	(Direction)	(Distance)
(Name)	(Direction)	(Distance)

SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:

7. For Municipal Supply: To supply the city, town, or community of **Public Campground**, in the county of **Stevens**, having a present population of **50**, and an estimated population of **120**, in 19 **75**.

8. For Irrigation: Number of acres to be irrigated _____ acres.

9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed)
(If more space is required, attach separate sheet)

(On accompanying plat show location of the existing wells or works)

10. What interest do you have in the above described property?

U.S. Government - Owner

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property? **No**

If so, from what source?

12. Construction work will begin on or before **May 24, 1967**

13. Construction work will be completed on or before **completed June 7, 1967**

14. Water will be put to complete beneficial use on or before **June 1, 1968**

Nothing herein shall constitute a waiver by the United States of the rights, title priority or interest it may otherwise have to the use of this or any other in the State of Washington

(Signature of applicant)

15. Name and address of owner of land on which well or works are located:

Department of the Interior

(Name)

Box 37, Coulee Dam, Washington 99116

(Address)

**Department of the Interior
National Park Service**

(Signature of legal landowner)

Signed in the presence of us as witnesses:

David A. Richie - Superintendent

(Name)

(Address of witness)

(Name)

(Address of witness)

STATE OF WASHINGTON, }
COUNTY OF THURSTON. } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion as follows:

In order to retain its priority, this application must be returned to the State Supervisor of Water Resources, with corrections, on or before, 19

WITNESS my hand this day of, 19

.....
State Supervisor of Water Resources.

DIRECTIONS FOR PREPARING APPLICATIONS

1. Initial examination fee of \$10.00 should accompany each application. If additional fee is required, you will be notified.
2. Write plainly in ink or use typewriter.
3. Read carefully all questions. Answer only those that apply to your project.
4. Under Question 2 estimate in gallons per minute and acre-feet per year the quantity of water that will be required for your proposed use.
5. A map showing the location of well or other works and place of use, must be made on the enclosed section plat. If for irrigation, show the approximate area to be irrigated. Show also location of other existing wells or other works for withdrawing ground water within a radius of one-quarter mile.
6. In answering Question 5, give the distance and direction of location of well or other construction works for withdrawal of water from the nearest 40-acre corner or other legal subdivision, as
 "320 feet north and 1100 feet east from the southwest corner of Sec. 1, Twp. 13 N., Rge. 2 E.W.M.," or
 "North 36° 20' east 500 feet from the northeast corner of NW¼ of SW¼ of Sec. 33, Twp. 12 N., Rge. 3 E.W.M.," or
If within the limits of incorporated town or city:
 "Lot 4, Block 6 of Churchill's Addition to the City of Spokane, Washington."
7. Be sure to give on the map brief directions for driving to the location of the well or other works from some town or easily located point on a state highway. This is for our convenience in making the examination.
8. If you have been using ground water since **before** June 7, 1945, it will not be necessary to secure a permit from the state for this purpose.
9. Sign application on the line indicated under Section 14.

SCHEDULE OF FEES DUE IN CONNECTION WITH OBTAINING GROUND WATER RIGHTS

Examination Fees: There is a minimum fee of \$10.00 for each application received. This fee covers all withdrawals up to and including 2250 gallons per minute. There is an additional examination fee of \$2.00 for each 450 gallons per minute, or fraction thereof, over 2250 gallons per minute.

Fees for Filing and Recording Permits: There is a minimum fee of \$4.00 for filing and recording permit. This fee covers irrigation of up to and including 20 acres.

For irrigation of over 20 acres, there is an additional fee as follows:

- 20¢ per acre over 20 acres to 100 acres, inclusive;
- 10¢ per acre over 100 acres to 1000 acres, inclusive;
- 5¢ per acre over 1000 acres.

Permit fee for other uses: Twice the examination fee.

Fee for filing and recording certificate: There is a minimum fee of \$3.00.

LWSSC

sand in both of these holes indicates that a fine screen would be necessary, and a gravel pack may also be required, to eliminate the sand problem in a production well. The clay surface dips toward the southeast, hence the thickness of potentially productive overlying material increases in that direction. A production well probably could be developed near either of the auger holes; in any case, a well should be located as far to the southeast as is practical.

Permeable material also may occur below the glacial-lake clay that underlies Rogers Bar. However, the clay may be as much as 600 feet thick, and exploratory drilling would be needed to determine the existence of water-yielding coarser materials.

USGS Report 1969

CODA

Hunters Park

Docket #13

Hunters Park campground is on the east shore of the lake, about 1 mile north of the mouth of Hunters Creek (figs. 1 and 20). The campground is on a terrace at about 1,300-foot altitude between two bedrock knobs just east of the campground, in line with an abandoned and buried channel of Hunters Creek.

At the outset of this water-supply evaluation, the National Park Service had begun expansion and improvement of facilities at Hunters Park. A well had been dug to 40 feet, but the yield was only 1½ gpm of turbid water, unsuitable for use. The reconnaissance of surface features in the area was followed by the drilling of two test wells, neither of which was entirely satisfactory because of small yields.

The two surface features that influenced the selection of the test-well sites were (1) the location of the abandoned and buried channel of Hunters Creek, which is between the two bedrock knobs northeast and southeast of the campground, and (2) the distribution of coarse gravel exposed along the shoreline of Roosevelt Lake at low water. The gravel is concentrated in line with the buried channel, and indicates the most promising site for a well.

The first of the two test wells was drilled near the south side of the buried channel, 250 feet southeast of the boat-launching ramp. The driller reported water-bearing

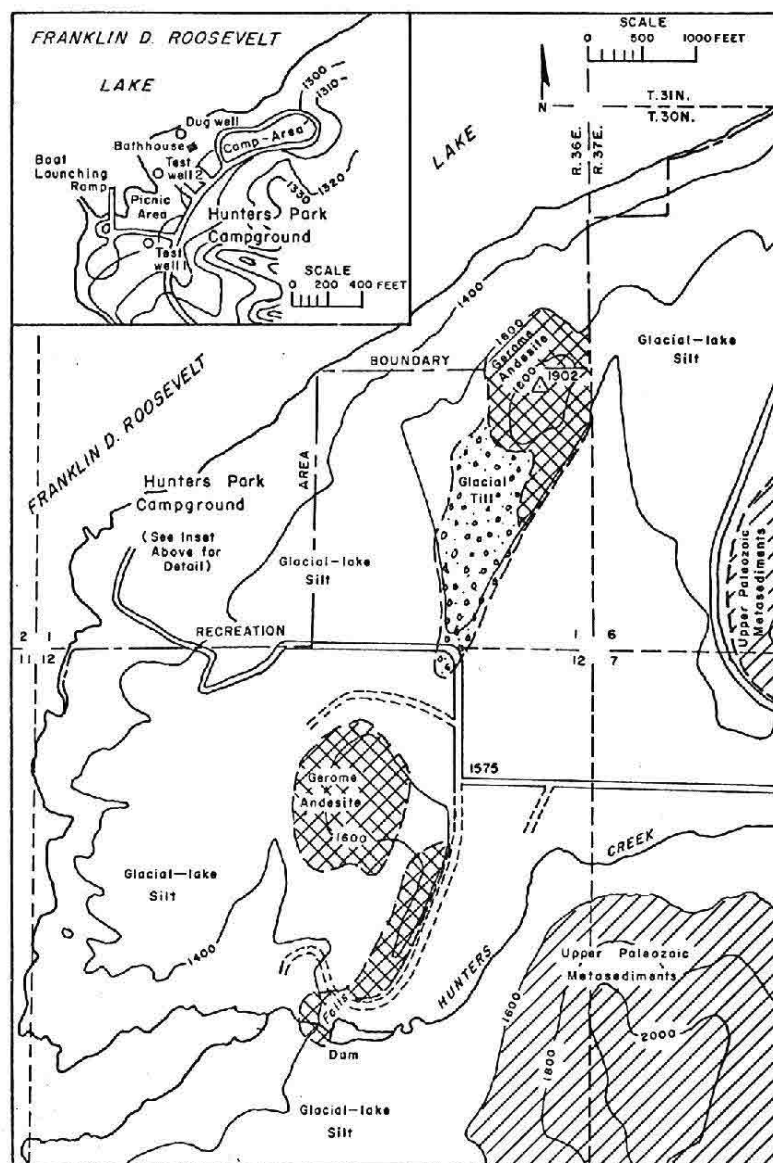


FIGURE 20.--Hunters Park campground (No. 19 on fig. 1).
Base from USGS quadrangle. Insert area from NPS
developed area plan.

gravel from 135 to 146 feet and basalt bedrock at 157 feet below land surface (table 11). Problems in getting sediment-free water from the first test well led to drilling the second test well which was located near the center of the buried channel, about 400 feet north of the first test well. The second well was drilled at nearly the same altitude and penetrated sand and gravel between 128 and 146 feet below land surface, about the same depth as in the first well. The sand and gravel in the second well was silty and yielded only 2 gpm. The second well continued either to bedrock or to a large boulder at 241 feet below land surface without penetrating an aquifer. Although these depths substantiate the existence of the buried Hunters Creek channel, the channel gravel failed to yield water to the second test well at a rate adequate for the needs of the campground.

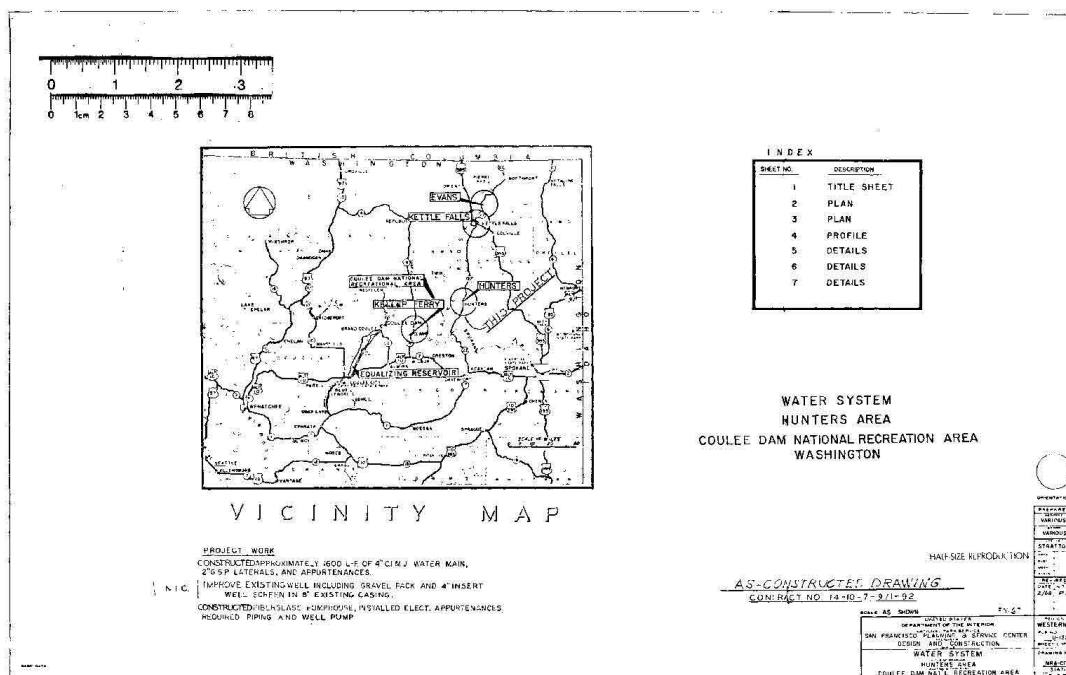
Attempts to develop a water supply from the first test well were then renewed. A 0.008-inch slot stainless steel screen 4 inches in diameter was centered in the 8-inch casing opposite perforations from 135 to 145 feet, and grade-16 silica sand was used to form an envelope around the screen. The well was developed with compressed air for about 24 hours to remove any accumulation of silt and clay from the formation just outside the perforated 8-inch casing, and it was pumped for 10 hours at varying rates up to 25 gpm. The maximum drawdown was 64.50 feet. During test pumping, the well produced no sand and by the end of the pumping period the water showed only very slight turbidity. The screen appears to have improved the well so that it is able to produce as much as 25 gpm of sand-free water.

A sample of water for chemical analysis was collected from the well near the end of the pumping period (table 2). The water appears to be of good quality, but the iron content is higher than desirable.

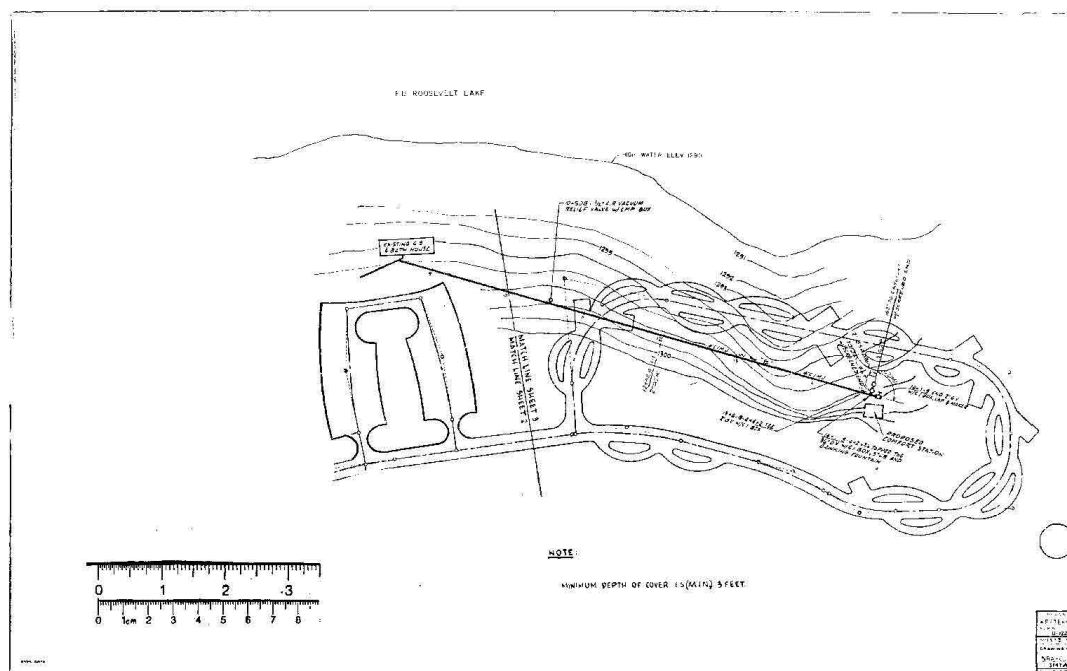
An additional ground-water supply probably could be obtained in the future from a well drilled a short distance northwest of the first test well. An 8-inch well with an 8-inch screen of proper slot size probably would yield at least 25 gpm. Greater assurance of success could be obtained by drilling a larger diameter well and gravel packing around a 6- or 8-inch screen.

TABLE 11.--Logs of two test wells at Hunters Park campground.
Drilled by Bach Drilling Co., 1966

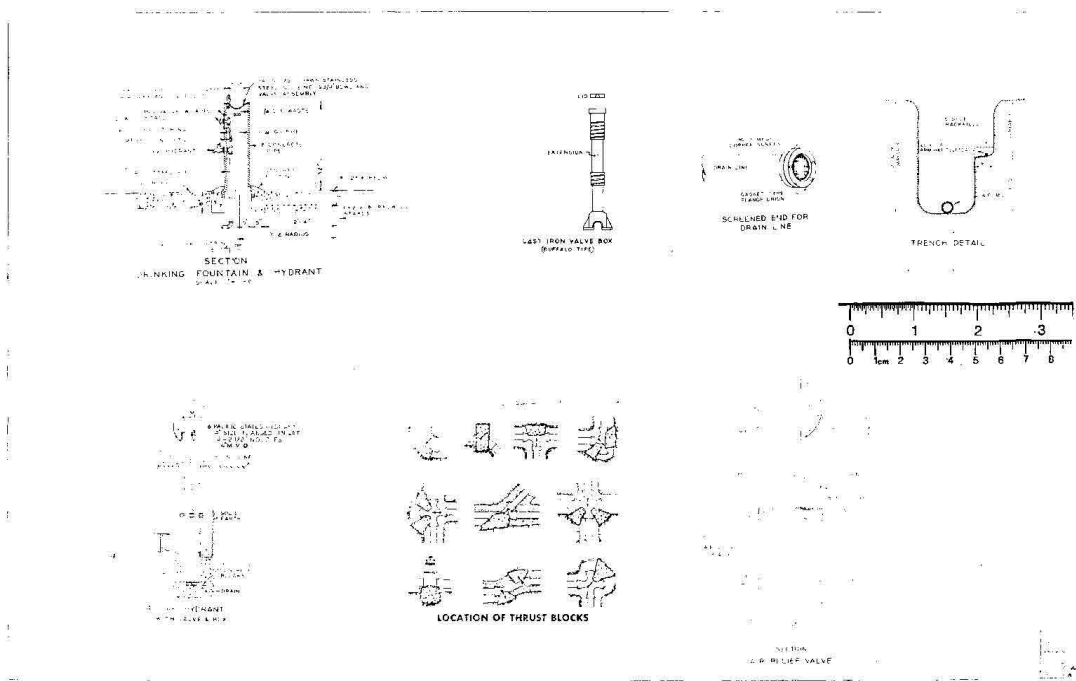
Test well 1: Altitude 1,298 ft; 8-inch casing to 158 ft; perforations 136-146 ft, 4-inch casing 123-135 ft and 145-154 ft; 4-inch diameter 0.008-inch slot screen 135-145 ft; water level 7.75 ft below land surface, 8-19-67; yield 25 gpm, drawdown 64.50 ft.		Thick- ness (feet)	Depth (feet)
Clay, yellow-----	60	60	
Clay with sand; yield 5 gpm-----	40	100	
Clay, gray-----	35	135	
Gravel, fine, "pea"-sized; yield 50 gpm-----	11	146	
Silt, sandy, clayey, heaving ("quicksand")---	11	157	
"Basalt"-----	8	165	
Test well 2: Altitude 1,297 ft; 8-inch casing to 240 ft, 6-inch casing to 241 ft; dry hole.			
Clay, silty, sandy, some water at 35 ft-----	65	65	
Sand, fine, silty, clayey, enough water for drilling-----	35	100	
Clay, some sand-----	5	105	
Clay, dark blue-----	23	128	
Sand and gravel, clayey; water 2 gpm-----	18	146	
Clay with sand and gravel-----	29	175	
Clay, sandy-----	66	241	
Graywacke bedrock (or boulders)-----		241+	







CODA 1006



Docket Information

Number of Documents in Docket 21

Documents Dated from 2/15/1968 to 5/29/1968

Docket Compiled: 4/21/2011