



WATER-RIGHT DOCKET

Lake Roosevelt National Recreation Area

Docket No: 11

KELLER FERRY CAMPGROUND WELL.

Preliminary Docket Information

03-03-1964: water docket information; march 03, 1964

WATER DOCKET INFORMATION

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

DOCKET NO. 11

APPLICATION NO. 7143

PERMIT NO. 6861

CERTIFICATE NO. 5053-A

TITLE OF DOCKET KELLER FERRY CAMPGROUND

PRIORITY March 3, 1964

REMARKS: Well Supply 60 g.p.m.

CERTIFICATE RECORD No. 11 PAGE No. 5053-ASTATE OF WASHINGTON, COUNTY OF Lincoln**Certificate of Ground Water Right**

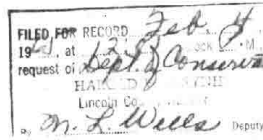
Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the State Supervisor of Water Resources thereunder.

THIS IS TO CERTIFY That U.S. DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, COULEE DAM RECREATIONAL AREA
of Coulee Dam, Washington, has made proof
to the satisfaction of the State Supervisor of Water Resources of Washington, of a right to the use of
the ground waters of a well
located within NE 1/4
Sec. 17, Twp. 28 N., R. 33 E. W.M.
for the purpose of domestic supply and irrigation
under and subject to provisions contained in Ground Water Permit No. 6861 issued by the State
Supervisor 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 State Supervisor of Water
Resources of Washington and entered of record in Volume 11 at page 5053-A;
that the right hereby confirmed dates from March 3, 1964; 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 60 gallons per minute; 7.0 acre-feet
per year for domestic supply and the irrigation of 1 acre for public campground.

Special provisions required by the Supervisor of Water Resources:

A description of the lands to which such ground water right is appurtenant:

Keller Ferry Campground, in Sec.17, T.28 N., R.33 E.W.M.



FILED ☒ INDEXED ☒
 COMPARED ☒ PAGED ☒

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

WITNESS the seal and signature of the State Supervisor of Water Resources affixed this
2nd day of February, 1965.

M. L. Wells
 State Supervisor of Water Resources

Ground Water Permit No. 6861

**CERTIFICATE OF GROUND
WATER RIGHT**

Recorded in the office of the State Super-
visor of Water Resources, Olympia, Wash-
ington, in Book No. 11 of Ground
Water Right Certificates, on page 5053-A,
on the 2nd day of February
19 65.

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 PRINTING PLANT OLYMPIA, WASH. 1964

2.
Hall Park Service
Oculu Dam Recreation Area
Oculu Dam, Washington

Proof of Appropriation of Water

Application No. 7143

Permit No. 6861

1. Name of Permittee Coulee Dam National Recreation Area
2. Postoffice address Box 37, Coulee Dam, Washington 99116
3. Source of appropriation Well
4. Name or number of works (if any) None
5. For what purpose or purposes is water used? Domestic supply (campground) and irrigation of lawn.
6. Give date of beginning of construction May 15, 1961
7. Give date of completion of construction work, including water distribution system June 30, 1961
8. Give date when water was completely applied to proposed use June 30, 1961
9. If used for irrigation:
 - Give number of acres described in permit 1.2
 - Give number of acres actually irrigated 1.2
10. If used for power: HP actually developed None
11. LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS USED:

NE1/4NW1/4 of Sec. 17, T. 28 N., R. 33 E., W. M.

Access Port or Airlift Been Installed?

N/A

12. During what months is water used? April through October
13. Does map filed with your application show correctly the location of well or point of diversion for withdrawal of water, and area of land where water is used? Yes
14. If the dimensions, location or type of structure do not correspond to those described in your permit, state what changes have been made, giving dimensions, etc. N/A
15. Actual measured discharge or diversion of permanent system: 60 (gpm or cfs)

(Sign certification on reverse side)

STATE PRINTING PLANT  OLYMPIA, WASHINGTON

STATE OF WASHINGTON,

County of Okanogan } ss.

I, Lester W. Robinson, being first duly sworn, depose and say that I have read the above and foregoing proof of appropriation; that I know the contents thereof; and that the facts therein stated are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 26th day of January, 1965

Lester W. Robinson

Subscribed and sworn to before me this 26 day of Jan, 1965

Delma M. Wagnon
Notary Public.



ALBERT D. ROSELLINI
GOVERNOR

JAN 12 1965

C. R. A.

STATE OF WASHINGTON

Department of Conservation

EARL COE, DIRECTOR

338 GENERAL ADMINISTRATION BUILDING
OLYMPIA

January 11, 1965

DIVISIONS:

RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND GEOLOGY
COLUMBIA BASIN PROJECT
POWER RESOURCES
WEATHER MODIFICATION

U.S. Department of the Interior
National Park Service
Coulee Dam National Recreation Area
Coulee Dam,
Washington

Gentlemen:

Re: G. W. Keller Ferry Campground
Permit No. 6861

We acknowledge receipt of Notice of Completion of
Construction under the above
numbered permit wherein you state the work is completed.

If you will file the enclosed form as soon as the water
has been put to the full use, a final water right
certificate may be issued to you. Please enclose the
statutory filing and recording fees of \$3.00 payable to the
Department of Conservation and \$ 2.00
made out to the Lincoln County Auditor.

Please send two separate checks or money orders.

Very truly yours,

DEPARTMENT OF CONSERVATION

EARL COE, DIRECTOR

MGW:
Enc. yw

M. G. Walker
M. G. WALKER, Supervisor
Division of Water Resources

L 54

Coulee Dam National Recreation Area
Coulee Dam, Washington 99116

January 8, 1965

RECEIVED		
NPS Western Regional Office		
JAN 11 '65		
	Surname	Date
Reg. Dir.		
Asst. R.D. (AD)		
Asst. R.D. (OP)		
Asst. R.D. (CA)		
Asst. to R.D. (PA)		
Sp. Asst. (Dev)		
Sp. Asst. to R.D.		
R. S. Advisor		

Morris

State of Washington
Department of Conservation
335 General Administration Building
Olympia, Washington

Gentlemen:

Enclosed are Notice of Completion of Construction forms
for the following permits:

Public Water Permit No. 13673
Public Ground Water Permit No. 6861 ✓
" " " " 6862

Very truly yours,

Charles F. Woodbury
Acting Superintendent

Enclosures-3

cc:
Western Region w/copies Notice of Completion of Construction,
Dept. of Cons. letter 12/28/64
Instructions
Permits

Notice of Completion of Construction

U. S. Department of the Interior
I, National Park Service, the holder of Ground Water Permit No. 6861
issued by the State Supervisor of Water Resources of the State of Washington for the appropriation
of ground waters withdrawn from a well (Well, tunnel or infiltration trench), in
accordance with the tenor of such permit and the limitations endorsed therein by the State Supervisor
of Water Resources, have completed the construction of the works described therein, on the 30th
day of June, 1961

If construction has been abandoned: Date Reason

Remarks:

IN WITNESS WHEREOF, I have hereunto set my hand this 8th day of January, 1965

Charles Woodbury
(Signature of applicant)

Box 37, Coulee Dam, Washington
(Present address)



ALBERT D. ROSELLINI
GOVERNOR

STATE OF WASHINGTON
Department of Conservation

ROY MUNDY, DIRECTOR

335 GENERAL ADMINISTRATION BUILDING
OLYMPIA

January 1, 1965

DIVISIONS:
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND GEOLOGY
COLUMBIA BASIN PROJECT
POWER RESOURCES
WEATHER MODIFICATION

National Park Service
Coulee Dam National Recreation Area
Keller Ferry Campground
Coulee Dam, Washington

Gentlemen:

Enclosed is Permit No. 6861 issued to you under
Application No. 7143. As the examination report
of our inspector indicates that you have already begun
construction on your project, we are enclosing a
Notice of Completion of Construction. Please file this
notice when you have finished the work.

Please read carefully the instruction sheet as well as both
sides of your copy of the permit.

Very truly yours,

DEPARTMENT OF CONSERVATION

ROY MUNDY, DIRECTOR

MGW: yw
Enc.

M. G. Walker
M. G. WALKER, Supervisor
Division of Water Resources

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

Permit to Appropriate Public Ground Waters
of the State of Washington

Book No. 14 of Ground Water Permits, on page 6861 under Application No. 7143
U.S. DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, COULEE DAM NATIONAL RECREATION AREA
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 March 3, 1964

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 60 gallons per minute; 7.0 acre-feet per year, to be
used for the following purposes: domestic supply and irrigation for public campground

as more definitely set out below.

Location of the well, tunnel, or infiltration trench is 285 feet west and 1485 feet north
from center of Sec.17
being within NE1/4, Sec.17, T.28 N., R.33 E.W.M.
county of Lincoln

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

For municipal supply: _____ gallons per minute; _____ acre-feet per year,
to supply _____ and domestic supply for public campground
For irrigation/ 60 gallons per minute; 7.0 acre-feet per year,
for the irrigation of 1 acres.

For miscellaneous uses: _____ gallons per minute; _____ acre-feet per year,
for _____

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Keller Ferry Campground, in Sec.17, T.28 N., R.33 E.W.M.

DESCRIPTION WORKS FROM WHICH WATER TO BE WITHDRAWN

The well will be dug and have a diameter of 30 inches, and depth of 43 feet.
(Dug or drilled)

Description of tunnel or infiltration trench:

(Please read carefully provisions below)

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

Construction work shall begin on or before Started
and shall thereafter be prosecuted with reasonable diligence and completed on or before January 1, 1966
and complete application of water to proposed use shall be made on or before January 1, 1967

Given under my hand and the seal of this office at Olympia, Washington, this 1st day of January, 1965.


State Supervisor of Water Resources

Report of Examination on Ground Water

Received date March 3, 1964 Date of exam August 13, 1964 Appl. No. 7143
 National Park Service
 Name Coulee Dam National Recreation Area Address Coulee Dam, Washington
 Type of works a well Dimensions 30" x 43'
 Progress of works Well drilled and in partial use (project started)
 Quantity applied for 60 g.p.m. acre-feet per year
 Legal sub. NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 17 Twp. 28 N. Rge. 33 E.W.M. County Lincoln
 Use Domestic supply and irrigation for public campground
 acre in garden
 Irrigation-acreage: Present fraction of / Planned 1.2 Feasible 1
 Municipal: Population 300 as of 1970
 Industrial
 Time pump will be operated continuously for domestic supply and during irrigation season
for irrigation.
 Other water rights appurtenant to this land None known
 Proximity to existing works, springs, wells, or streams Well is 3 feet above and 40 feet distant
from Franklin D. Roosevelt Lake.

Area Sub-area Zone

RECOMMENDATIONS

Approved for 60 g.p.m. 7.0 acre-feet per year, subject to existing
 water rights. (1 acre-foot 325,850 gallons.)

The installation of an access port to well as described in attached Ground Water Bulletin No. 1 is recommended.

The well as presently equipped will not produce the recommended instantaneous withdrawal but it is the applicant's intention to install a larger pumping system before Certificate issues.

The water requirement for campground supply has been based on an average use of 25 gallons per day per person over a 4 $\frac{1}{2}$ month camping period for a total of about 3.0 acre-feet per year for a projected campground population of 300 persons. An allowance of 4.0 acre-feet per year has been recommended for campground irrigation of 1 acre.

Signed at Olympia, Washington
 on this 14 day of October, 1964.


 EUGENE F. WALLACE, Geologist
 Division of Water Resources

Affidavit of Publication

STATE OF WASHINGTON
COUNTY OF LINCOLN

ss.

**NOTICE OF GROUND WATER
RIGHT APPLICATION NO. 7143**
State of Washington Office of
Supervisor of Water Resources
Olympia
AMENDED

TAKE NOTICE:

That NATIONAL PARK SERVICE, COULEE DAM NATIONAL RECREATION AREA (Keller Ferry Campground) of Coulee Dam, Washington, on March 3, 1964, filed application for permit to withdraw public ground waters through a well situated within NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 17, Township 28 N., Range 33 E.W.M., in Lincoln County, in the amount of 80 gallons per minute, subject to existing rights continuously, each year for the purpose of community domestic supply and during irrigation season for irrigation. Any objections must be accompanied by a two dollar (\$2.00) recording fee and filed with the State Supervisor of Water Resources within thirty (30) days from August 27, 1964.

Witness my hand and official seal this 4th day of August, 1964.
M. G. WALKER
State Supervisor of
Water Resources

(Aug. 20-27)

Dorothy L. Randall, being first duly sworn on oath deposes and says that she is the Principal clerk of the Davenport Times, a weekly newspaper. That said newspaper is a legal newspaper and has been approved as a legal newspaper by order of the superior court in the county in which it is published and it is now and has been for more than six months prior to the date of the publication hereinafter referred to, published in the English

language continually as a weekly newspaper at Davenport, Lincoln County, Washington, and is now and during all of said time was printed in an office maintained at the aforesaid place of publication of said newspaper. That the annexed is a true copy of

Notice of Ground Water Right Application No. 7143

as it was published in regular issues (and not in supplement form) of said newspaper once a week for a period of Two consecutive weeks, commencing on the 20th day of August, 1964, and ending on the 27th day of August, 1964, both dates inclusive and that such newspaper was regularly distributed to its subscribers during all of said period. That the full amount of the fee charged for the foregoing publication is the sum of \$ 6.30, which amount has been paid in full, at the rate of \$2.40 a hundred words for the first insertion and \$1.80 a hundred words for each subsequent insertion.

Dorothy L. Randall
Subscribed and sworn to before me this 8th day
of October, 1964

H. W. C. Callum
Notary Public in and for the State of Washington,
Residing at Davenport, Washington.

(SEAL)

Affidavit of Publication

STATE OF WASHINGTON)
COUNTY OF LINCOLN) ss.

Dorothy L. Randall, being first duly sworn on oath deposes and says that she is the Principal clerk of the Davenport Times, a weekly newspaper. That said newspaper is a legal newspaper and has been approved as a legal newspaper by order of the superior court in the county in which it is published and it is now and has been for more than six months prior to the date of the publication hereinafter referred to, published in the English

language continually as a weekly newspaper at Davenport, Lincoln County, Washington, and is now and during all of said time was printed in an office maintained at the aforesaid place of publication of said newspaper. That the annexed is a true copy of

Notice of Ground Water Right Application No. 7143

NOTICE OF GROUND WATER RIGHT APPLICATION NO. 7143
State of Washington Office of Supervisor of Water Resources Department of Conservation Olympia

TAKE NOTICE:

That NATIONAL PARK SERVICE, COULEE DAM NATIONAL RECREATION AREA (Keller Ferry Campground) of Coulee Dam, Washington, on March 3, 1964, filed application for permit to withdraw public ground waters through a well situated within NE 1/4 NW 1/4 of Section 17, Township 28 N., Range 32 E.W.M., in Lincoln County, in the amount of 80 gallons per minute, subject to existing rights continuously, each year for the purpose of community domestic supply and during irrigation season for irrigation.

Any objections must be accompanied by a two dollar (\$2.00) recording fee and filed with the State Supervisor of Water Resources within thirty (30) days from June 4, 1964.

Witness my hand and official seal this 20th day of May, 1964.
(SEAL)

M. G. WALKER
State Supervisor of Water Resources

(May 28-June 4)

as it was published in regular issues (and not in supplement form) of said newspaper once a week for a period of two consecutive weeks, commencing on the 28th day of May, 19 64, and ending on the 4th day of June, 19 64, both dates inclusive and that such newspaper was regularly distributed to its subscribers during all of said period. That the full amount of the fee charged for the foregoing publication is the sum of \$ 6.30, which amount has been paid in full, at the rate of \$2.40 a hundred words for the first insertion and \$1.80 a hundred words for each subsequent insertion.

Dorothy L. Randall
Subscribed and sworn to before me this 28 day
of June, 19 64

(SEAL)

[Signature]
Notary Public in and for the State of Washington,
Residing at Davenport, Washington.

S. P. No. 374-B-OC-3-62-75C

\$10.00 examination fee should
accompany each application.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
Division of Water Resources

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters
OF THE STATE OF WASHINGTON

Application No. G. W. 7143

U. S. Department of the Interior, National Park Service, Coulee Dam National
X, Recreation Area.

(Name of applicant)

of Coulee Dam, Washington P. O. Box 37

(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 approximately 14 miles north from Wilbur, Washington on State Highway No. 4.

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

Area

(Leave blank)

Sub-area

(Leave blank)

Zone

(Leave blank)

Applicant's name or number of well or other works, if any, Keller Ferry Campground2. The quantity of water which applicant intends to withdraw for beneficial use is 60gallons per minute; 95 acre feet per year.3. The use or uses to which water is to be applied Domestic and irrigation

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

4. The time during which water will be required each year All Year5. Location of well or other works for withdrawal of water: In county of Lincolnapproximately 4,125 feet north and 3,625 feet west from section corner(a) common to Sections 16, 17, 20, and 21 in T. 29 N., R. 32 E., W.M.

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

being within the NW4 of Sec. 17, Twp. 28 N., Rge. 32 E.

(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 aug and have a diameter of _____ inches and an estimated depth of 43 feet.

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

(c) Distribution system to be described: 850 feet of 1½-inch pipe to and thru campground.

(d) If pumps are to be used, give size and type: single stage jet pump, 35 GPM, 2-inch suction, 1½-inch discharge.

(e) Give capacity and type of motor or engine to be used: electric motor, 3/4 H.P., 115-230 volts.

(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:

Well is 3 feet above and 40 feet distant from Franklin D. Roosevelt Lake.

(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 within one-quarter mile.

(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~~ public campground of 200, in the county of Lincoln, having a present population of 200, and an estimated population of 300, in 1970.

8. For Irrigation: Number of acres to be irrigated 1.2 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)

One acre of grass and trees located in the S/2NW/4 of Section 17, T. 28 N.,
R. 32 E., W.M.

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

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

Administrator

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property?.....

If so, from what source?.....

12. Construction work will begin on or before April, 1959

13. Construction work will be completed on or before May, 1959

14. Water will be put to complete beneficial use on or before May, 1959

Homer W. Robinson, Superintendent
(Signature of applicant)

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

U. S. Government
Administered by National Park Service

(Name)

(Address)

(Signature of legal landowner)

Signed in the presence of us as witnesses:

Charles P. Woodbury
(Name)
(Address of witness)

Walter P. Woodbury
(Name)
(Address of witness)

STATE OF WASHINGTON,
COUNTY OF THURSTON, ss.

This application does not constitute waiver of other
rights the United States may have to the same water.

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 and this..... day of....., 19.....

Supporting Hydro Data

LWSSC
USGS Report 1969Keller FerryCODA
Docket #11

Keller Ferry campground is on the south shore of the lake, directly opposite the mouth of Sanpoil Bay (fig. 1). The campground was developed on a point of a large terrace just above 1,300-foot altitude immediately west of the ferry landing (fig. 8).

A 43-foot well, dug for the National Park Service in 1959, penetrated only sand and gravel. It is a reliable water supply when Roosevelt Lake is full or nearly so, but it goes dry when the water level in the lake drops 25 feet. The water level in the lake is expected to drop more than 100 feet during the winters of 1968 and several following years because of work being done on the third powerhouse for Grand Coulee Dam.

The campground is on a terrace which is underlain by a sand and gravel channel deposit. The deposit becomes coarser toward the center of the lake. The depth of the sand and gravel was explored by four auger holes drilled in August 1967. The location of these holes is indicated in figure 9. At 25 feet or less, each of the first three holes encountered cobble gravel which the auger could not penetrate. The fourth auger hole encountered cobble gravel at 26 feet, but with difficulty was able to penetrate to 63 feet. Logs for the auger holes are in table 6.

A gamma-ray log of auger hole 4 was made through the hollow-stem auger. A zone of high gamma radiation from about 35 to 48 feet probably indicates finer material (silt and clay) present in the sand and gravel. The hole was cased to a depth of 56 feet with 4-inch pipe that had perforations from 48 to 52½ feet. After development, the well was pumped at 20 gpm for half an hour and had a drawdown of 0.05 foot.

The chemical quality of the water from auger hole 4 at Keller Ferry is good. All constituents were below the limits recommended by the U.S. Public Health Service (1962, p. 7-8). A chemical analysis of a water sample from this auger hole is presented in table 2.

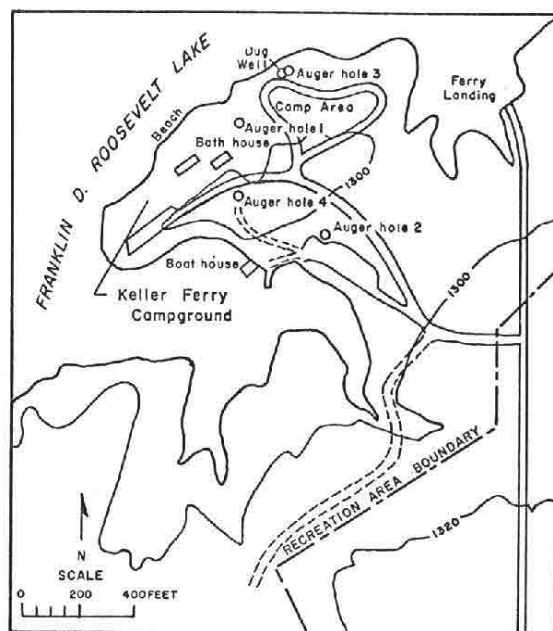


FIGURE 8.--Keller Ferry campground (No. 6 on fig. 1). Base from NPS master plan.

TABLE 6.--Logs of four auger holes at Keller Ferry campground.
Bored by U.S. Geological Survey, 1967

	Thick- ness (feet)	Depth (feet)
<u>Auger hole 1:</u> Altitude 1,293 ft.		
Sand, medium to very coarse, silty-----	20	20
Gravel, coarse to cobble-----	7	27
<u>Auger hole 2:</u> Altitude 1,295 ft.		
Sand, medium to coarse, and very coarse gravel-----	3	3
Gravel, very coarse, and coarse to very coarse sand-----	14	17
Sand, very coarse, with some gravel-----	7	24
Gravel, cobble-----	--	24+
<u>Auger hole 3:</u> Altitude 1,295 ft.		
Sand, medium to very coarse, silty-----	19	19
Gravel, cobble-----	.5	19.5
<u>Auger hole 4:</u> Altitude 1,305 ft; 4-inch casing to 55.5 ft, perforations 48 to 52½ ft; water level 14.24 ft below land surface, 9-27-67; yield 20 gpm for ½ hr, drawdown 0.05 ft.		
Silt, sandy-----	8	8
Gravel, medium-----	5	13
Sand, medium to very coarse, silty-----	13	26
Gravel, medium to cobble, sandy, silty with layers of silty sand; most silty zone indicated by high gamma radiation 35-48 ft-	22	48
Gravel, medium to cobble, sandy; low gamma radiation-----	15	63

Information on ground-water potential in this area was obtained from the well (not shown on map) serving the ferry landing just east of the campground. The well penetrated sand and gravel all the way to bedrock which is 154 feet below high-water level in Roosevelt Lake. The bedrock surface is probably even deeper below the campground area, and a successful well probably could be developed anywhere within the campground.

Jones Bay

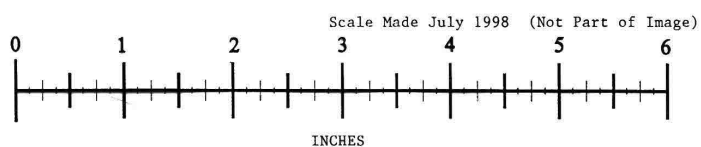
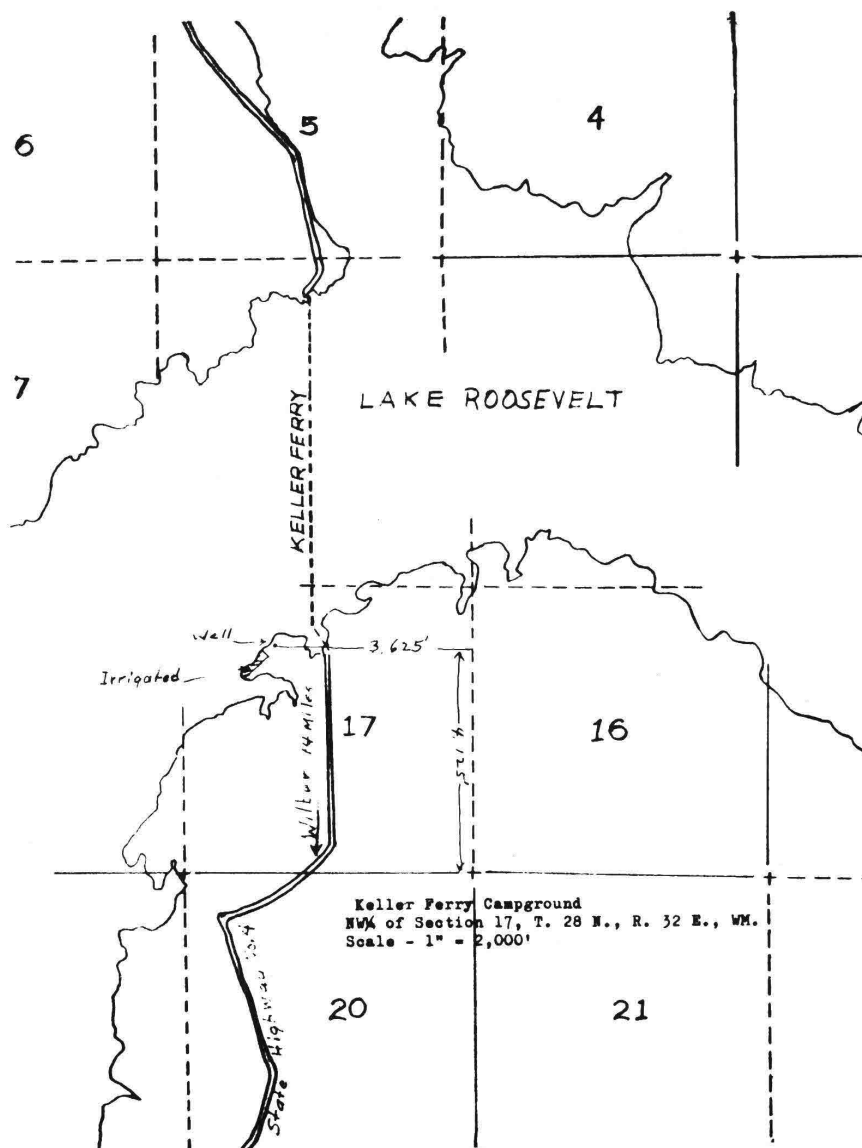
Jones Bay campground is on the south shore of the lake, about 5 miles upstream from the mouth of Sanpoil Bay (fig. 1). The campground is on a point near the head of the bay formed at the mouth of Penix Canyon (fig. 9). There is no water supply at Jones Bay at present (1968).

Jones Bay is west about 2 miles from a bedrock knob from which a sand and gravel bar extends and continues beyond the campground. The sand and gravel deposit probably extends at least to a depth of 100 feet, and probably would yield water to a well located almost anywhere in the campground area.

Lincoln Mill

The Lincoln Mill picnic area is on the south shore of the lake, just east of a small bay, 2½ miles west of the mouth of the drowned Hawk Creek valley (fig. 1). This area is served by the same water supply as the community of Lincoln. No additional water supply is needed at present (1968).

A delta remnant of clean sand and gravel is exposed at the surface in the picnic area. Although the thickness of the sand and gravel in the picnic area is unknown, exposures of granite overlain by Columbia River Basalt a short distance east of the area suggests that the deposits should be thickest toward the west. The most promising well site is near the west end of the terrace on which Lincoln Mill picnic area is developed.



Docket Information

Number of Documents in Docket 22

Documents Dated from 5/15/1961 to 1/26/1965

Docket Compiled: 4/21/2011