



WATER-RIGHT DOCKET

Fort Clatsop National Memorial

Docket No: 1

WELL WATER SYSTEM, WELLS NO. 1 - INACTIVE

Supporting Hydro Data

00-00-0000: geological survey: water analysis

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER ANALYSIS

2GW
Dec. 1953

Location Near Astoria, Oregon (SW of) SN/10W-35D County Clatsop
Source Undeveloped Spring Depth (ft) _____ Diam (in.) _____
Cased to (ft) _____ Date drilled _____ Point of coll. At spring
Owner Ft. Clatsop Nat'l. Memorial, P.O. Box 83, Astoria, Oreg.
Treatment _____ Use Domestic & Public
WBF _____ WL _____ Yield 2 GPM, max. Supply
Temp (°F) _____ Appear. when coll. Clear
Collected April 23, 1962 By C. L. Peterson
Remarks One of several springs in 50 foot radius

	ppm	epm		ppm	epm
Silica (SiO ₂)	19		Bicarbonate (HCO ₃)	17	0.28
Aluminum (Al)			Carbonate (CO ₃)	0	.00
Iron (Fe)	.04				
			Sulfate (SO ₄)	.6	.01
			Chloride (Cl)	6.8	.19
			Fluoride (F)	.1	.01
Calcium (Ca)	3.0	0.15			
Magnesium (Mg)	1.2	.10	Nitrate (NO ₃)	.4	.01
Sodium (Na)	5.2	.23			
Potassium (K)	.5	.01			
Total		0.49	Total		0.50

	ppm		
		Specific conductance (micromhos at 25° C)	55
Dissolved solids:		pH	6.2
Calculated	45	Color	5
Residue on evaporation at 180° C	44		
Hardness as CaCO ₃	12		
Noncarbonate	0		

Lab. No. **PNW 7215**

Field No.

Project

Form 10-174
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Work Order No.

4-WR-63B

Fund Symbol

14X1035 (0343)

Year Programmed

1962-1963

PCP No.

U-1

Master Plan No.

NMEM-FC-3016, NMEM-FC-3004B

Master Plan Corrected By

As Built Drawings By

Park

Fort Clatsop National Memorial

Region

Western

Location in Park

Northern portion

State(s)

Oregon

County or Counties

Clatsop



Contract and/or



Day Labor

Work Order Title

Capital Improvements for the Acquisition of Water Rights
(Water Investigations - Test Wells and Spring Development -
Fort Clatsop)

Date Started

October, 1961

Date Completed

May, 1962

DESCRIPTION OF FIXED ASSETS
(For completion by employee in charge of project)Direct
Costs

Drill & plug 3 test wells (Wells #3, #4, #5) \$2,587.00

Test water flow Well #2 (Supt's residence) 68.19

Develop spring 230.00

Total direct costs \$2,885.19

TOTAL COSTS
(For completion by FFO)

TOTAL

\$

DISTRIBUTION

No. To

WASO

WRO

WODC

FOCL

THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED
DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGESSubmitted By: *Charles L. Peterson*
Charles L. Peterson

Title: Superintendent

Date: April 5, 1963

Approved

By:

Title:

Date:

COSTS VERIFIED

Title:

Date:

BY

11360

Form 10-174A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPOSITION OF COST FOR COMPLETION REPORT

Work Order Number
4-WR-63BFund Symbol
14X1035 (0343)Park
Fort Clatsop National MemorialRegion
WesternYear Programmed
1961-1962 & 1963Location in Park
Northern portionWork Order Title
**Capital Improvements for the Acquisition of Water Rights (Water Investigations -
Test Wells and Spring Development - Fort Clatsop)**

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE

(1) Personal Services.....	\$ 223.19	
(2) Travel.....		
(3) Contract Work	1,732.00	
(4) Supplies and Materials.....		
(5) Other Direct Expenses.....	930.00	
(6) Operation of Equipment.....		
(7) Depreciation of Equipment.....		
(8) Purchase of Construction Equipment.....		
(9) Purchase of Other Accountable Equipment		
(10) Other Costs:		2,885.19
(11) TOTAL COST CHARGED TO FFO FUNDS	xxxxxxxxxx	\$ ~~XXXX~~

OTHER COSTS:

(12) PS&S, AP, and/or Facilitating Services @ _____ %.....	\$	
(13) Inventory and Other Non-Fund Costs		
(14) GROSS WORK ORDER COSTS	xxxxxxxxxx	\$
LESS:		
(15) Residual Value of Construction Equipment on Line 8	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	xxxxxxxxxx	\$

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

COMPLETION REPORT

WORK ORDER NO. 4-WR-63B

PROJECT: Water Investigations - Fort Clatsop (Test Wells and Spring Development)

NARRATIVE STATEMENT

The two existing wells were known to be inadequate for proposed development of the area and it had been determined that extension of the lines of the Youngs River-Lewis and Clark Water District to connect with park construction would be unreasonably and disproportionately costly.

The existing wells were (1) a 45-foot drilled well with 6" casing and 1/2 hp electric pump, 3 g.p.m. flow, located near the site of the Fort Clatsop Replica. The well had been constructed in 1955 as part of the community-sponsored development and provided water for limited grounds irrigation and a drinking fountain. (2) a 45-foot drilled well with 6" casing and 1/2 hp electric pump, 3 g.p.m. flow, located behind the residence of the Superintendent (building #1). The well had been constructed in 1955 to serve the residence. Water quality of both wells was poor in that a high iron content was noticeable to taste and vision.

Since a basic requirement for proper development of the park was availability of a reliable water supply, decision was made to drill a well in advance of advertising for bids on building construction. On October 16, 1961 a well drilling contract was awarded Janssen Drilling Company of Aloha, Oregon, and they drilled at the site of the proposed utility building. After 178 feet of drilling, with no appreciable flow attained, the hole was abandoned as of January 4, 1962 and plugged. This on the advice of an inspection and report by Bruce L. Foxworthy, District Geologist, Ground Water Branch, U.S.G.S. who recommended another test well be drilled at a site suitably removed from possible effects of land levelling and contamination from septic tanks. His further advice was to drill no deeper than 40 or 50 feet since the "Astoria Formation" of unweathered impervious clay and shale underlies the area, and potable water, in small quantities, can be found only at shallow depths from the weathered zone at the top of the formation. The 178 ft. well is numbered as #3 for record purposes.

Move to a new site was made and drilling proceeded on Well #4 which was abandoned at 45 feet on April 10, 1962, after entering the "Astoria Formation" without striking water.

Move made east from Well #4 and drilling done for Well #5 which was abandoned April 16, 1962, at 40 ft. level after entering the "Astoria Foundation" without striking water.

Flow tests were then made during dry weather at a spring which fed a small pond at the east base of a small hill north of the Fort Clatsop Replica. A sustained flow of 5 g.p.m. was recorded and decision made to proceed with development of the spring. Chlorination would be required since bacterial test reported the water as "unsafe". A complete chemical analysis of the water from the spring source was conducted and report filed with all interested offices. Engineering survey work was undertaken and performed by WODC personnel and Working Drawing NMEM-FC 3016 was prepared for the subsequent completion of the system which was constructed in part under Work Order B-2 FOCL and in part under Work Order B-7 FOCL.

A test pump was rented in May, 1962, to establish the draw down and flow rate for the well #2 at the Superintendent's residence. The sustained flow rate was recorded as 3 g.p.m.

Wells #1 (Fort) and #2 (Residence) are still available for use. Well #1 will be used for late summer irrigation and to supplement and simulate a water flow to the Lewis and Clark spring which commonly dries up in late summer. Well #2 will be cut in to the reservoir supply line in emergency situations to augment the supply from the developed spring.

The following is a chronological report of action under W.O. 4-WR-63B:

	<u>Cost</u>
10-16-61 Unnumbered contract awarded for drilling Well #3.	
1-4-62 Well #3 abandoned at 178 ft. Drilled & plugged	\$1,732.00
1-9-62 Order issued for additional drilling at new locations.	
4-10-62 Well #4 abandoned at 45 ft.)	
4-16-62 Well #5 abandoned at 40 ft.)(Drilled & plugged	855.00
4-23-62 Quality Water Branch, U.S.G.S. makes complete chemical analysis of spring water	40.00
5-8-62 Drawdown and flow test conducted for Well #2	35.00
Wages of the park maintenanceman for various duties performed at all wells and at the spring	<u>223.19</u>
Total costs for well and spring investigations	\$2,885.19


Charles L. Peterson
Superintendent

July 13, 1961

D5031

Memorandum

To: Superintendent, Fort Clatsop
From: E. G. Wilkinson, Project Supervisor, Fort Clatsop
Subject: Sewage Disposal, Residence No. 1, Fort Clatsop

Reference is made to W.O.D.C. memorandum of June 28 in which it was requested that an investigation of a new disposal field location for the subject residence be made.

After making a survey of the area which could be used for a disposal field, and taking percolation tests, the following conclusions have been reached:

1. The soil strata is a very dense clay from one-foot below the surface to a depth which cannot be determined without using a drilling rig.
2. Percolation tests were performed throughout the area where a gravity line and a disposal field could be installed and the results indicated that the soil is not at all suitable for a disposal field. A total of six percolation tests were run and the results varied from a drop of 4-inches in 30 minutes to a 1/16-inch drop in 30 minutes. The tests were performed in accordance with the Manual of Septic Tank Practice of the U.S.P.H.S.
3. It is my suggestion that an investigation be made into the possibility of utilizing a seepage pit. This would require the use of a drilling rig to drill a hole deep enough to get below the layer of dense clay. The well log of the present well in the Fort Area indicated the clay strata to be approximately 30 feet in depth. The only other alternative would be to install a small sewage lift station and utilize the sewage treatment facilities to be built for the Visitor Center.

(Sgd) Elwyn G. Wilkinson

Project Supervisor

In duplicate

Copies to: Mr. R.C. Cooper - WODC

STATE OFFICE BUILDING
1400 S. W. 5TH AVENUE
PORTLAND 1, OREGON

DAYS—CAPITOL 6-2161
AFTER HOURS—CAPITOL 2-1500

MAILING ADDRESS:
P. O. Box 231
PORTLAND 7, OREGON

Mr. Charles L. Peterson, Supt.
Ft. Clatsop National Memorial
P. O. Box 83
Astoria, Oregon

RE: W - Ft. Clatsop Nat. Memorial

Harold E. Milliken
Assistant Chief Sanitary Engineer

COPY

OREGON STATE BOARD OF HEALTH

MINERAL CONTENT OF WATERLocation of Source Fort Clatsop National Mem. Sampling Point WellCollected By Terrich Date Oct. 14, 1960 Analysis By LL Date Oct. 20, 1960Laboratory Number 516

Parts Per Million

1. Color	22.0	high
2. Turbidity	17.0	high
3. pH	7.00	
4. Alkalinity Bicarbonate	47.5	
5. Carbon Dioxide	10.0	
6. Aluminum	0.10	
7. Ammonia Nitrogen	0.33	
8. Calcium	3.9	
9. Chloride	11.9	very low
10. Chlorine Residual	.	
11. Fluoride	0.19	very low
12. Hardness	16.8	
13. Iron	0.75	high
14. Magnesium	1.7	very low
15. Manganese	0.05	
16. Phosphates	0.07	
17. Potassium	1.8	
18. Silicon	39.5	?
19. Sodium	21.4	
20. Sulfates	0.6	
21. Total Solids	144.0	
22. Volatile Solids	51.0	
23. Suspended Solids	22.0	
24. Nitrates	0.05	
25. Nitrites	0.014	
26. Conductance $\mu\text{mho/cm}$	136.00	2-16-60

With Total Solids so low and with
pH of 7.0, I would suspect that
the Iron is rust from casing, or
of similar source. It could be
taken care of by zeolite type
filter or Colson's.

0.10
0.02
0.90

OREGON STATE BOARD OF HEALTH

MINERAL CONTENT OF WATERLocation of Source Fort Clatsop National Mem. Sampling Point Well at Supt. ResidenceCollected By Terzich Date Oct. 14, 1960 Analysis By LL Date Oct. 20, 1960

1960

Laboratory Number 516

Parts Per Million

1. Color	<u>22.0</u>
2. Turbidity	<u>17.0</u>
3. pH	<u>7.00</u>
4. Alkalinity Bicarbonate	<u>47.5</u>
5. Carbon Dioxide	<u>10.0</u>
6. Aluminum	<u>0.10</u>
7. Ammonia Nitrogen	<u>0.33</u>
8. Calcium	<u>3.9</u>
9. Chloride	<u>11.9</u>
10. Chlorine Residual	<u>.</u>
11. Fluoride	<u>0.19</u>
12. Hardness	<u>16.8</u>
13. Iron	<u>0.75</u>
14. Magnesium	<u>1.7</u>
15. Manganese	<u>0.05</u>
16. Phosphates	<u>0.07</u>
17. Potassium	<u>1.8</u>
18. Silicon	<u>39.5</u>
19. Sodium	<u>21.4</u>
20. Sulfates	<u>0.6</u>
21. Total Solids	<u>104.0</u>
22. Volatile Solids	<u>51.0</u>
23. Suspended Solids	<u>22.0</u>
24. Nitrates	<u>0.05</u>
25. Nitrites	<u>0.014</u>
26. Conductance mcsmho/cm	<u>136.00</u>

2-16-60

4 15 1362

COPY

FT. CLATSOP NATL MEM
STATE OF OREGON

☐ SUPP. _____
☐ HIST. _____
☐ A. R. _____
☒ MEMO _____
☐ FILE NO. _____

File Original and
Best Copy with the
STATE ARCHIVER,
SALINE, OREGON

Driller's well number _____
 [Signed] Edward M. Jansson
 (Well Driller) [Signature]
 License No. 79 Date 1/8, 1962

(USE ADDITIONAL SHEETS IF NECESSARY)

NOTES TO WATER WELL CONTRACTORS:
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 10 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

State Well No. _____

State Permit No. _____

(1) OWNER:

Name U S Department of The Interior
Address Fort Clatsop National Memorial
P O Box 83 Astoria, Oregon

(2) LOCATION OF WELL:

County Clatsop Driller's well number _____
1/4 Section T. R. W.M.
Bearing and distance from section or subdivision corner

Five miles SW of Astoria**(3) TYPE OF WORK (check):**

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☒
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

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

(5) TYPE OF WELL:

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

(6) CASING INSTALLED:

Threaded ☐ Welded ☐
8" Diam. from 0 ft. to 45 ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? ☐ Yes ☐ No
Type of perforator used _____
Size of perforations in by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:

Well screen installed ☐ Yes ☐ No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Well seal—Material used in seal _____
Depth of seal ft. Was a packer used? _____
Diameter of well bore to bottom of seal in.
Were any loose strata cemented off? ☐ Yes ☐ No Depth _____
Was a drive shoe used? ☐ Yes ☒ No
Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level ft. below land surface Date _____
Artesian pressure lbs. per square inch Date _____

(11) WELL TESTS:

Drawdown from _____ level is lowered below static level.
Was a pump test made? ☐ Yes ☐ No If yes, by whom? _____
Yield: gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:

Diameter of well below casing _____
Depth drilled 45 ft. Depth of completed well ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	2
Yellow Clay	2	11
Light Gray Sand	11	12
Gravel & Cobble—Partly cemented	12	33
Approx 2 gal per min at 30 ft		
Blue Shale	33	40

Dry and abandoned—all casing removed and well plugged

Work started 4/12/62 Completed 4/16/62
Date well drilling machine moved off of well 4/16/62

(13) PUMP:

Manufacturer's Name _____
Type _____ H.P. _____

Water Well Contractor's Certification:

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

NAME A H Janssen Drilling Company (type or print)

Address 21075 SW Tualatin Hwy Astoria, Oregon

Drilling Machine Operator's License No. _____

(Signed) Edna M. Janssen (Water Well Contractor)

Contractor's License No. 79 Date 4/23

(USE ADDITIONAL SHEETS IF NECESSARY)

Other Supporting Information

[156] From: Alice Johns at NP-WASO-WR 7/11/94 12:54PM (3123 bytes: 64 ln)
To: Mark Flora at NP-WASO-AQ
cc: Owen Williams
Subject: FOCL Scoping Document

----- Message Contents -----

Text item 1:

Mark,

Well the end of May has come, and I bet you are wondering how I am doing on preparing the water rights section for the FOCL scoping document, which you asked for by the end of May. I am close, and it will not require much (a few sentences) to complete the task.

From examining the records in this office, it appears that there are no water right issues. As you stated in the report, the lands are all acquired, and the park's water supply is from the Lewis and Clark Water District.

Our records indicate, however, that there were two wells (constructed in 1955) on the property when the United States took title to the lands. Shortly thereafter (1964) a spring was developed and three wells were drilled at an attempt to get a better yielding well. But, all 3 were dry and were plugged. Then in 1965, the NPS went on the Water District supply.

My guess is that both of the 1955 wells and the springs never had water rights associated with them. The wells yielded only about 3 gpm each and were/are? probably exempt. The spring, well who knows whether it was actually ever developed and the water put to use? Anyway if it arose on NPS land and did not form a channel which flowed off our land, there would be no water right associated with this spring. Of course our records simply describe it as "a spring". There is no location given.

In any event, I have requested a listing of water rights in the vicinity of FOCL from the State of Oregon, just to be sure there are no "skeletons in the closet".

It may also be worth determining the current status of the two wells (have they been plugged?). I will include more information on this when I prepare something for you for the scoping report, which may be a little bit (but not very) late, so that I can incorporate the info. from the state.

← message originally sent the end of May. Re-sent 7-11-94 by A. Johns

Text item 2: Final comments

Mark,

I obtained a reply from the State of Oregon. The only water rights in the area are those of the Lewis and Clark Water District, which show Fort Clatsop as a place of use (among many others). Thus there do not appear to be any water rights of the United States associated with Fort Clatsop.

Edit water rights section to read:

"There is no record of water rights held by the United States for Fort Clatsop National Memorial. The park's water is supplied by the Lewis and Clark Water District."

I also suggest that you consider some changes to the section titled "Groundwater resources", on page 17. I will send you some materials from the WRB dockets related to this.

It may also be worth including, somewhere in the plan, the need to determine if old wells were properly abandoned so as to prevent aquifer contamination.

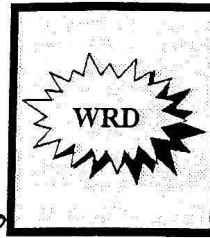
Thats it. Sorry I took so long in getting back to you. The State lost my information request so I had to resend it to them, at which time they got right on it.

AJ



NATIONAL PARK SERVICE
WATER RESOURCES DIVISION
FORT COLLINS, COLORADO

FAX #: (303) 225-9965
VERIFICATION #: (303) 225-3500
Address: 1201 Oak Ridge Dr. Suite 250
Fort Collins, CO. 80525



DATE ~~5/27/94~~ 5/27/94 6/23/94 Attn: Alice Johns

TO Cory Engel
NAME Oregon Water Resources Dept. GROUP _____

CITY, STATE _____ MAIL CODE _____

OFFICE PHONE 503-378-8455

FAX NUMBER 503-378-~~87709~~ 8130 VERIFICATION 2 pp. sent 5:08 p.m. 5/27 g

FROM

NAME Alice Johns GROUP Water Rights Branch

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET) 2

SPECIAL INSTRUCTIONS

Attached is a request for a tabulation of water rights. Prior to processing request, could you contact me (re) method of payment for any charges & an estimate of cost for compiling this tabulation? My direct line is 303-225-3539. Thank-you

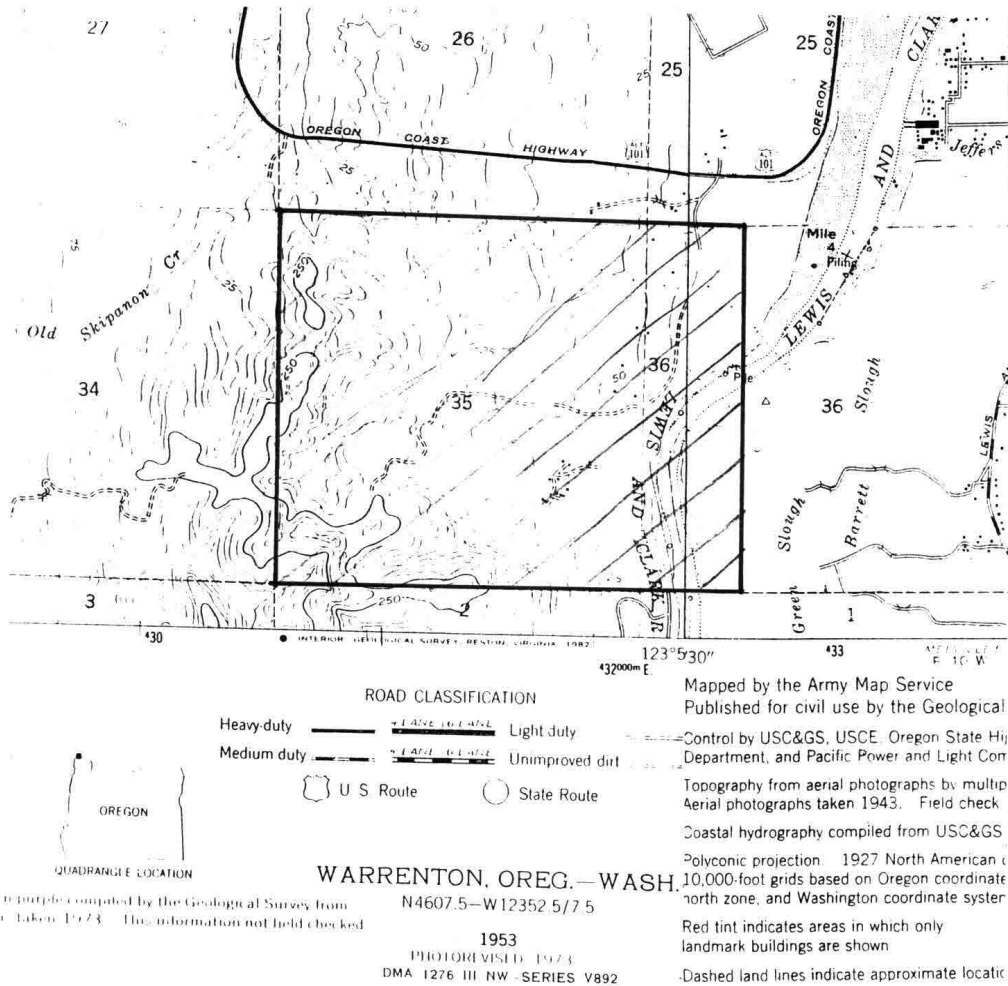
Receipt Verified By _____ Date _____ Time _____

Listing of water rights by:

Point of diversion
 Place of use
 Priority date or date of filing
 Type of use, or
 Amount (cfs/gpm and af/y)
 Holder of water right (name of record on certificate)

Listing requested for:

all of Section 35, T8N, R10W,
 and W1/2 W1/2 Section 36,
 of same T and R.



TRANSMISSION REPORT

:NPS WATER RESOURCES (JUN 23 '94 10:22AM)

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*****
*
* DATE      START  REMOTE TERMINAL  MODE      TIME      RESULTS  TOTAL  DEPT. FILE
*   TIME      IDENTIFICATION                      PAGES  CODE  NO.
*
* JUN 23    10:20AM      503 378 8130 G3ST      01'47"    OK      02
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TRANSMISSION REPORT

:NPS WATER RESOURCES (MAY 27 '94 05:10PM)

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* DATE      START  REMOTE TERMINAL  MODE      TIME      RESULTS  TOTAL  DEPT. FILE
*   TIME    IDENTIFICATION                DEPT. CODE NO.
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* MAY 27    05:08PM      503 378 8130 G3ST      01'27"    OK      02
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Remarks: The system and distribution area is identical to that described in Permit No. 14386 and confirmed by Certificate No. 23392. The purpose of this application is to include uses not covered by the earlier water right (uses other than domestic) and additional users which have come on the system since proof of appropriation was submitted on the earlier right.

Youngs River-Lewis and Clark Water District

by

Earl Beyers
Signature of Applicant

Chairman

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

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

WITNESS my hand this day of , 19

Water Resources Director

By

This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the

2 day of Sept. , 1980, at 8:00 o'clock
P.M.

Application No. 60575

Permit No. 45279

60575

Water Resources Director

24

RECEIVED
 SET 02 1990
 WATER RESOURCES DEPT
 SALEM, OREGON

Addendum sheet
 Youngs River - Lewis & Clark Water District

Item 3 - Place of Use for Municipal Purposes

T. 8 N., R. 10 W., W.M.	Section 25 35 36	E $\frac{1}{2}$ E $\frac{1}{2}$	Fort Clatsop
T. 8 N., R. 9 W., W.M.	Section 19 20 28 29 30 31 32 33	SW $\frac{1}{4}$ +E $\frac{1}{2}$ SW $\frac{1}{4}$	Lot 10
T. 7 N., R. 10 W., W.M.	Section 1 12	NE $\frac{1}{4}$	Lot 1
T. 7 N., R. 9 W., W.M.	Section 4 5 6 7 8 9 10 15 16 17 18 22 27	W $\frac{1}{2}$ W $\frac{1}{2}$ E $\frac{1}{2}$ W $\frac{1}{2}$	

Application No. 60575
 Permit No. 45279

STATE OF OREGON
COUNTY OF CLATSOP

CERTIFICATE OF WATER RIGHT

This Is To Certify, That YOUNGS RIVER-LEWIS & CLARK WATER DIST.
of Astoria, State of Oregon^{97/43}, has made proof
to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of
R. & L. Forks of Barney Creek
a tributary of Youngs River for the purpose of
domestic
under Permit No. 14386 of the State Engineer, and that said right to the use of said waters
has been perfected in accordance with the laws of Oregon; that the priority of the right hereby
confirmed dates from July 24, 1940
; that the amount of water to which such right is entitled and hereby confirmed, for the purposes
aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed
2.0 cubic feet per second, being 1.0 cubic foot per second from each fork

or its equivalent in case of rotation, measured at the point of diversion from the stream.
The point of diversion is located in the E $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, Township 6
North, Range 9 West, W.M.

The amount of water used for irrigation, together with the amount secured under any other
right existing for the same lands, shall be limited to " - - - - " of one cubic foot per second
per acre,

and shall
conform to such reasonable rotation system as may be ordered by the proper state officer.
A description of the place of use under the right hereby confirmed, and to which such right is
appurtenant, is as follows:

SE $\frac{1}{4}$ SE $\frac{1}{4}$
Section 19
SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 20
W $\frac{1}{2}$ NW $\frac{1}{4}$
SW $\frac{1}{4}$
Section 29
N $\frac{1}{2}$
SW $\frac{1}{4}$
Section 30
W $\frac{1}{2}$
Section 31
E $\frac{1}{2}$ W $\frac{1}{2}$
W $\frac{1}{2}$ E $\frac{1}{2}$
Section 32

Township 8 North, Range 9 West, W. M.

E $\frac{1}{2}$
Section 25
E $\frac{1}{2}$ SE $\frac{1}{4}$
Section 36

Township 8 North, Range 10 West, W. M.

W $\frac{1}{2}$ NE $\frac{1}{4}$
E $\frac{1}{2}$ SE $\frac{1}{4}$
Section 5
W $\frac{1}{4}$
Section 6
S $\frac{1}{2}$
Section 7
SW $\frac{1}{4}$ SE $\frac{1}{4}$
NE $\frac{1}{4}$ SE $\frac{1}{4}$
Section 8
W $\frac{1}{2}$ NE $\frac{1}{4}$
W $\frac{1}{2}$
NW $\frac{1}{4}$ SE $\frac{1}{4}$
S $\frac{1}{2}$ SE $\frac{1}{4}$
Section 9
SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 10
E $\frac{1}{2}$
Section 15
NW $\frac{1}{4}$ NW $\frac{1}{4}$
Section 17
W $\frac{1}{2}$ E $\frac{1}{2}$
Section 22

Township 7 North, Range 9 West, W. M.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 20th day of November, 19 57.

LEWIS A. STANLEY

State Engineer

Recorded in State Record of Water Right Certificates, Volume 16, page 23392.



See'd in 120 1/8/62

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
GROUND WATER BRANCH
Box 3418 - 1002 N. E. Holladay Street
Portland 8, Oregon

IN REPLY REFER TO:

James M. Whitworth

AIR MAIL

January 8, 1962

Mr. George F. Whitworth, Regional Engineer
National Park Service
180 New Montgomery
San Francisco 5, California

Dear Mr. Whitworth:

As you requested, Mr. Don Price, geologist, and myself visited the site of the test well at Fort Clatsop Monument, Clatsop County, the afternoon of January 3, 1961, and discussed the problems of developing an additional water supply with the superintendent, Mr. Charles Peterson.

Existing geologic information, confirmed by examination in the field, indicates that the low ridge upon which the monument and the test well are located is underlain by materials of the Astoria Formation, which consist largely of poorly permeable clay, shale, and minor amounts of cemented gravel. Examination of road cuts near the site, together with Mr. Peterson's description of the well at his residence and a neighboring well, suggests that small yields of potable water probably can be obtained at shallow depths from the weathered zone at the top of the Astoria Formation. Conversely, several records of other wells drilled into that formation indicate that very little water of good quality can be expected at greater depths in that formation. Unfortunately, at the site selected for the well, much of the weathered material already had been removed by bulldozing, so that the well was started in largely unweathered impervious clay and shale.

Accordingly, it was our suggestion to Mr. Peterson that drilling at that site be suspended, and that another test well be drilled at a site suitably removed from possible effects of land leveling and contamination from septic tanks. Inasmuch as there is little likelihood of obtaining much water from depths below about 40 or 50 feet, it is suggested that further test drilling be restricted to shallow depths.

Because of the generally poor permeability of the rock materials underlying the monument, it may be impossible to develop the required 10 gallon-per-minute supply from a single well. If two or more wells are required, they should be located with due regard to

possible sources of contamination, and should be adequately spaced to prevent or minimize interference (mutual drawdown) during summertime periods of peak demand.

I trust this information will assist in developing the additional supply needed. If further problems arise, we will be glad to furnish whatever information we have that will aid in their solution.

Sincerely,

Bruce L. Fennerthy
District Geologist

June 30, 1960

Memorandum

To: Regional Director, Region Four

From: Chief, Water Resources Section

Subject: Water Right Docket No. 1, Fort Clatsop National Memorial

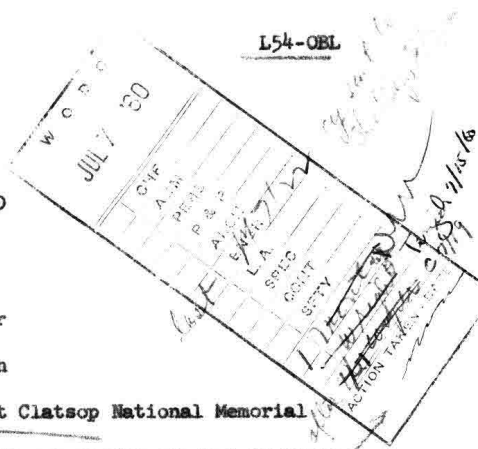
We acknowledge receipt of Mr. Whitworth's memorandum of June 17 transmitting to this office a copy of the subject docket containing driller's log of the well drilled for the Oregon Historical Society and Drawing NM-FC-2100. If available, the pump capacity should be added to the record and the well spotted on the drawing.

We note from the files that Federal title to the area has not yet been completed. We also note from Mr. P. E. Smith's memorandum of June 15 to you, concerning working drawing, water sewer, power and telephone systems, that any proposed NPS development will be the subject of further WODC study this summer. The following suggested docket expansion should be helpful in connection with the water supply studies.

The appraisal report, by Mr. E. F. Kolberg, of the Fort Clatsop area, which was transmitted to this office with Mr. Maier's memorandum of March 31, 1960, appears to indicate the existence of two water sources; one is a spring shown on Drawing NMEM-FC-3001 as being in the SW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 36, T 8 N, R 10 W, on the R. J. and Jean Kraft property; the second is a 175 feet deep well which we believe is located in Sec. 35, T 8 N, R 10 W, on the Miller property. We have just received a copy of Working Drawing No. NMEM-FC-3008, from WODC, on which is shown a proposed water system with the water source shown as a proposed well which appears to be located in NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 36, T 8 N, R 10 W, on the Owen property.

In summary there appears to be the following water sources:

1. Existing 45 feet deep well drilled for the Oregon Historical Society.
2. Existing spring on the R. J. and Jean Kraft property.
3. Existing 175 feet deep well on the Miller property.



4. Proposed NPS well on the Owen property.

Drawing NMNM-FC-3008 may prove to be a suitable map on which to spot the abovementioned water sources and might be substituted for Drawing NM-FC-2100 presently in the docket.

These details should be clarified after title to the Fort Clatsop area is obtained, and should be helpful to WODC.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

In duplicate

Copy to: Chief, WODC 2

FORT CLATSOP NATIONAL MEMORIAL
WATER RIGHTS

L. S. Spaulding
June 24, 1960

Fort Clatsop National Memorial is presently served with water from a well near the fort replica. A second well on the recently purchased K. C. Miller property serves the residence on that tract. Development plans contemplate replacing the two existing systems with a unified system taking water from a new well to be located in a proposed utility building.

The State of Oregon ground water code provides for registration of wells and for permits for the appropriation of ground water but exempts appropriations for single or group domestic purposes where the amount does not exceed 15,000 gallons per day. The capacity of the proposed system is less than 15,000 gallons per day, hence no filing is required.

P. O. Box 4058
Portland 8, Oregon

April 4, 1960

Memorandum

To: Regional Director, Region Four
From: Acting Chief, Columbia River Survey
Subject: Fort Clatsop - Well Records

We have received a copy of R. T. Montgomery's memorandum of March 7 to you. In accordance therewith, we contacted the drilling company, and the driller's log for the well drilled at Fort Clatsop for the Oregon Historical Society is as follows:

First 30 feet - sticky yellow clay
30 - 45 feet - gravel

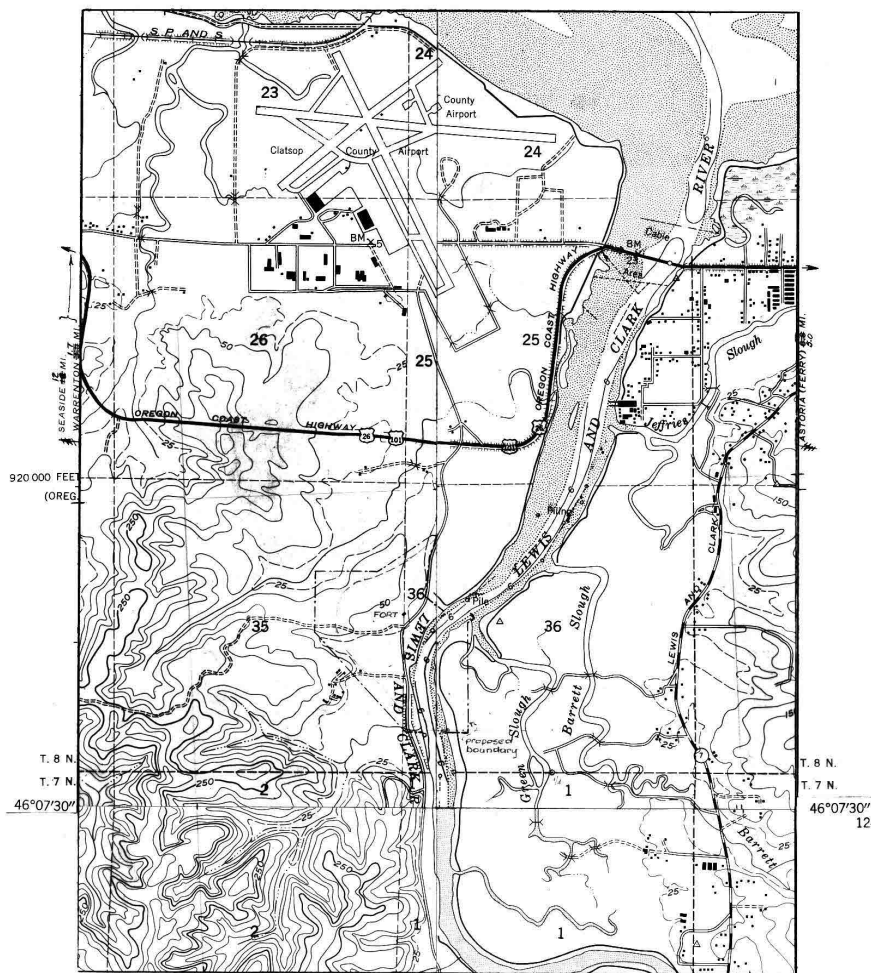
Static water level - 14 feet below surface
Tested to six gallons per minute at 40 feet below surface
Casing six inch steel - 44 feet 6 inches in length, plain end
Bottom 10 feet perforated with 4 slots per foot 1/8" X 12"
Drilling completed 1/27/55

The above information was obtained by a local telephone call on March 23, 1960, to the A. M. Jannsen Drilling Company, telephone number MITchel 4-2176.

Mark J. Pike
Acting Chief, Columbia River
Recreation Survey Branch

FORT CLATSOP 1-25-60
from Hassey Report
EXISTING WELL
6" dia
45' to water table
capacity - 6 GPM
"good quality"
poorly located - intrudes on historical area

~~be~~
believe that 2nd well was acquired with Miller
property

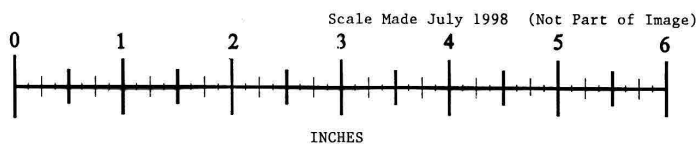


portions of Warrenton, Astoria
Gearhart and Olney quadrangles

FORT CLATSOP NATIONAL MEMORIAL
VICINITY

National Park Service - Region Four office

Scale 1" = 2000' Jan. 25, 1960 NMFC 2100



Docket Information

Number of Documents in Docket 33

Documents Dated from 7/24/1940 to 7/11/1994

Docket Compiled: 3/21/2011