CROO 1564

WATER WELL REPORT
STATE OF OREGON

CROO 1564

State Well No. 14S/16E-32cb

State Permit No. Abandoned

Owners Well No.: Ochoco Heights well #2

(1) OWNER:
Name Pacific Power & Light Company
Address 920 S.W. Sixth Ave.
City Portland, Oregon 97204 State

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☒
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐
Thermal: ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED: See attached sheet
Steel ☐ Plastic ☐
Threaded ☐ Welded ☐

..." Diam. from ... ft. to ... ft. Gauge ...
..." Diam. from ... ft. to ... ft. Gauge ...

LINER INSTALLED:
..." Diam. from ... ft. to ... ft. Gauge ...

(6) 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.

(7) SCREENS: see attached sheet
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.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? SEI
see attached sheet gal./min. with ... ft. drawdown after ... hrs.
" " " "
Air test gal./min. with drill stem at ... ft. ... hrs.
Bailer test gal./min. with ... ft. drawdown after ... hrs.
Artesian flow g.p.m.
perature of water Depth artesian flow encountered ... ft.

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☐
Well seal—Material used 5 sk mix concrete
Well sealed ~~from land surface to~~ 3 ft to 240 ft.
Diameter of well bore to bottom of seal 30 in. to 100; 24" to bottom
Diameter of well bore below seal - in.
Number of sacks of cement used in well seal? 195 sacks
How was cement grout placed? ~~XXXXXXXXX~~ concrete placed down tremie pipe as casing was withdrawn
Was pump installed? No Type ... HP ... Depth ... ft.
Was a drive shoe used? ☐ Yes ☒ No Plugs ... Size: location ... ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☒ Yes ☐ No Size of gravel: 3/16-5/16
Gravel placed from see attached sheet ft. to ft.

(10) LOCATION OF WELL:
County Crook Driller's well number 8111
NW ¼ SW ¼ Section 32 T. 14S R. 16E W.M.
Tax Lot # Lot Blk Subdivision
Address at well location: Approx 100' N-NE of existing state well No. 14/16-32(1)

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.
Static level N.A. ft. below land surface. Date -
Artesian pressure - lbs. per square inch. Date -

(12) WELL LOG:
Diameter of well below casing -
Depth drilled 280 ft. Depth of completed well 0 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
See attached sheet			

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Work started 8/3/81 19 Completed 11/5 19 81
Date well drilling machine moved off of well 11/5 19 81

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Donald L. Ward (Drilling Machine Operator) Date 11/11 19 91
Drilling Machine Operator's License No. 1085

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 Schneider Equipment, Inc. (Person, firm or corporation) (Type or print)
Address 2881 River Rd NE, St. Paul, Or
[Signed] Stephen J. Schneider (Water Well Contractor)
Contractor's License No. 649 Date 11-10 19 81

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*12658-690

SCHNEIDER EQUIPMENT, INC.
21881 RIVER RD. N.E.
ST. PAUL, OR 97137
PH. (503) 633-2666

Ochoco Heights Well No. 2
Prinevi CROO 1564

14S/16E-32cb
Crook Co.

Material	From	To
Sand, brown	0	3
Gravel & sand w/ decomposed clay binder	3	5
Sand, coarse, brown & gravel 8" minus multicolored	5	20
Gravel 8" minus & sand medium brown	20	32
Sand, brown medium fine	32	38
Sand, medium coarse, brown	38	47
Clay, brown	47	53
Sand, brown, medium coarse	53	65
Sand, brown, fine	65	83
Sand, black, fine	83	92
Clay, gray	92	104
Sand, black, fine	104	113
Clay, gray w/ some wood	113	118
Sand, black, fine	118	121
Clay, gray	121	123
Sand, black, fine	123	136
Clay, gray, fine sandy, moist	136	138
Clay, gray	138	146
Clay, dark gray, fine sandy, moist w/ some wood	146	147
Sand, black, fine	147	152
Clay, gray	152	226
Clay, gray w/ some stray gravel	226	227
Rock, weathered, broken, green, cemented w/ clay, gray	227	231
Rock, weathered, broken, green & gray, cemented w/ clay, gray	231	235
Gravel 3/4 minus and sand medium coarse	235	240
Clay, gray green	240	245
Rock, weathered, broken, green w/ some clay, gray, hard	245	253
Rock, weathered, broken, green & gray w/ clay, green and gray, hard	253	258
Clay, green, gritty, dry	258	259
Rock, weathered, broken, green, w/ clay, green - yellow & brown streaked, hard	259	263
Clay, green, yellow & brown streaked, firm	263	264
Clay, green, firm	264	264'6"
Rock, weathered, broken, brown, w/ some clay	264'6"	266'6"
Clay, green, multi-colored, gritty	266'6"	269
Rock, weathered, broken, brown w/ some clay	269	270
Clay, brown & green multi-colored, gritty	270	275
Clay & weathered broken rock, brown	275	280

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145/16E-32 cb Crook

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Pacific Power & Light Co.
Ochoco Heights Well No.2

Well Drilling & Abandonment
Sequence of Events
from 8/3/81 to 11/5/81

1. Drilled 32" diameter hole to 100'.
2. Installed 30" casing from surface to 100'.
3. After well was idle for weekend, static was 44'
4. Drilled 26" diameter hole to 260'.
5. Drilled 18" diameter hole to 280'.
6. Installed 24" casing from surface to 250' (bottom of hole, from 250' on, had filled with fine sand).
7. After well was idle for two weeks (awaiting screen) static inside 24" casing was 105'. Bottom of hole was bailed to 270' to permit installation of 12" casing and screen. Static was bailed down to 157' and did not recover any overnite revealing formation below 24" casing (250') was not water bearing.
8. Installed 12" casing with pipe size screen from surface to 268'. Screen sections were: 234½' to 241½' and 245' to 258'.
9. Gravel pack was placed from 214' to 270'.
10. Concrete plug was placed in bottom of 12" casing.
11. Pulled back 24" casing to 234'.
12. Developed well by swabbing & surging with a pump.
13. After well was idle for 1 month, static between 24" and 30" casing was 44', static between 12" & 24" casings and inside 12" casing was 105'.
14. Well was test pumped at 67 gpm with 94' drawdown after 3 hours.
15. Because of insufficient water, it was decided to abandon the well, whereupon the 12" casing and screen was removed completely.
16. Redi-mix concrete was then placed thru a tremie pipe from 240' to the surface as the 24" and 30" casings were removed. Note that upon initial pulling of the 24" casing, the static rapidly rose to 68'. The top of the concrete was left 3' below surface so as not to interfere with any future excavations/landscaping at the site. The top 3' was backfilled with native material.

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