

Attachment F

Well Logs: CROO 1540 - Authorized & CROO 53759 - Proposed

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FEB 26 2010

**WATER RESOURCES DEPT
SALEM, OREGON**

T 11026

17/16-310 (1) 012
 App G605
 Per G506
 Cook CW

R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane
 Portland 6, Oregon
 Sept. 17, 1957

Log of 12" well drilled for Pacific Power & Light Company.
 Legal Description of well location: S 58degrees 13 min. 20 sec. east for
 1447 ft. from N.W. Corner of Sec. 31, Township 14 S. R 10E Willamette
 Meridian, Creek County, Ore.

- 0 - 2 Soft sand
- 2 - 12 Sandstone, with surface water
- 12 - 19 Clay
- 19 - 31 Gravel with clay binder.
- 31 - 52 Sandy silt
- 52 - 57 Sandy silt with some gravel
- 57 -101 Sandy silt
- 101 -122 Sandy silt with some gravel
- 122 -194 Silt
- 194 -223 Sticky shale
- 223 -228 Yellow silt
- 228 -231 Cemented gravel
- 231 -252 Sand and gravel, water-bearing
- 252 -256 Yellow clay

Casing:

- 0 - 230 ft.---24" O.D. 5/16 wall pipe.
 - 0- 230 ft.---12" I.D. 5/16 wall pipe.
 - 230 - 253 ft.---12" I.D. Cook Well Screen
 - 253 - 256 ft.---12" I.D. 5/16 wall pipe. Steel plate welded on bottom of pipe.
- Opening between 12" pipe and inside of 24" pipe filled with gravel-pack material to 205 ft. Opening between 15 ft. and 205 ft. filled with clay. Cement seal from 5 ft. to 15 ft.

Static water level---17 ft.
 Pumping level, at 550 g.p.m.---101 ft.



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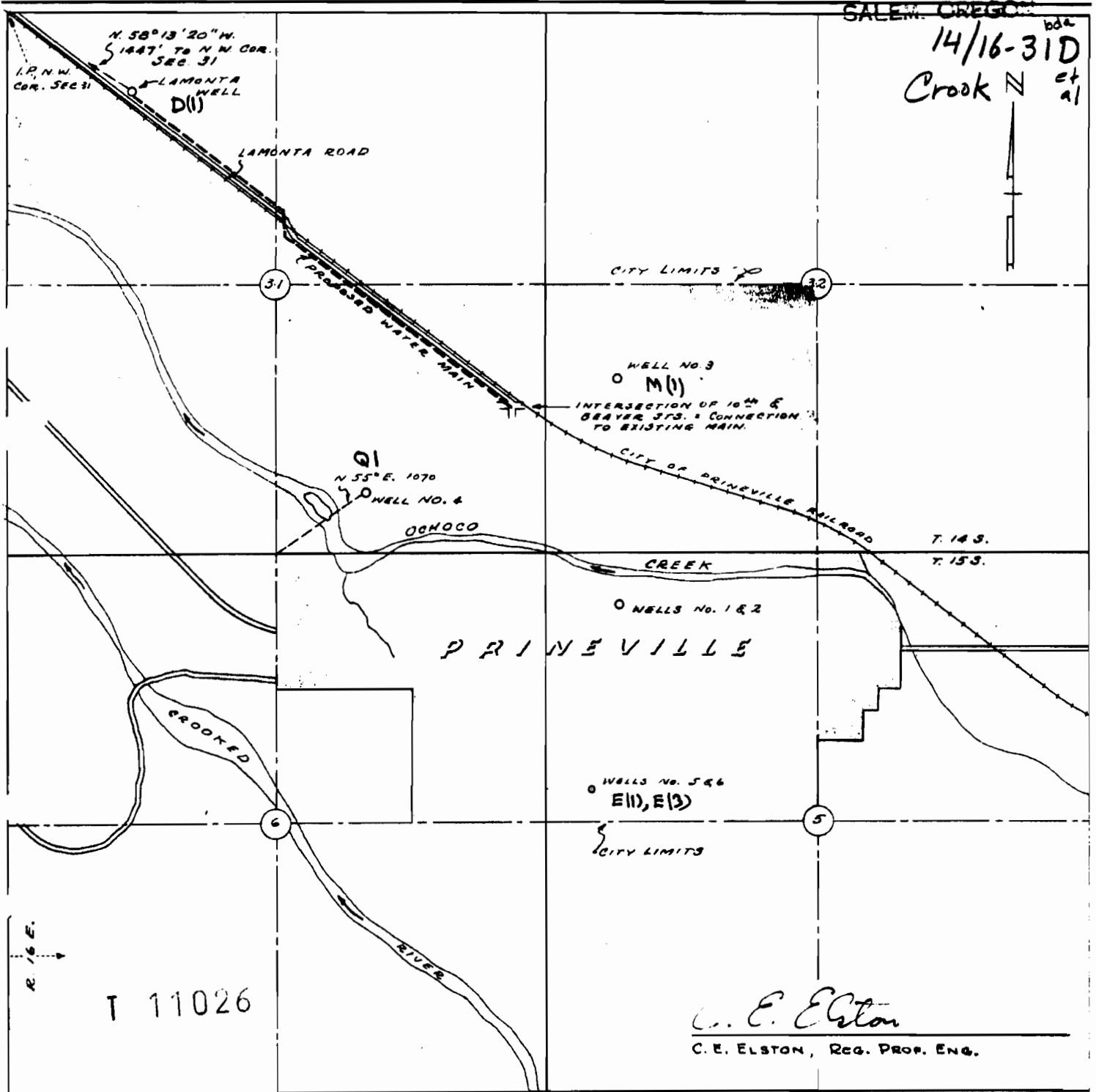
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Application No. G-605
 Permit No. G-506

CROO 1540

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 APR 5 1957
 STATE ENGINEER
 SALEM, OREGON

14/16-31D
 Crook N et al



T 11026

C. E. Elston
 C. E. ELSTON, REG. PROF. ENG.

CERTIFICATE:

I, C. E. ELSTON OF PORTLAND, OREGON DO HEREBY CERTIFY THAT THIS MAP WAS MADE FROM NOTES TAKEN DURING AN ACTUAL SURVEY MADE UNDER MY IMMEDIATE SUPERVISION ON MARCH 15, 1957, THAT THE WELL SHOWN HEREON CONSISTING OF A 24" STEEL CASING IS S. 58° 13' 20" E., 1447' FROM THE N.W. COR. OF SEC. 31, T. 14 S., R. 16 E. W. M., CROOK COUNTY, OREGON.

PACIFIC POWER & LIGHT COMPANY
 proposed
NEW WELL (LAMONTA WELL)
 for
 PRINEVILLE MUNICIPAL WATER SYSTEM
 In Sec. 31, T. 14 S., R. 16 E. W. M.
 Prineville, Crook County,
 Oregon

C. E. Elston
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SCALE: 4" = 1 Mile March, 1957

OFFICE OF THE
STATE ENGINEER
DEPARTMENT OF
TRANSPORTATION
SALEM, OREGON

14/16-310(1)
CROOK CO.

TO:

SUBJECT:

Water from *Deep well*
Palomares Well No. 1 ←

DATE RECEIVED: 11-25-57

Palomares Well No. 1

7.25

parts per million

Total Solids (Residue on Evaporation)	271
Volatile Solids (Loss on Ignition)	21
Alkalinity (as CaCO ₃)	
Carbonate	0
Bicarbonate	142
Hardness (as CaCO ₃)	148
Silica (SiO ₂)	43.5
Iron (Fe)	0.04
Aluminum (Al)	0.63
Calcium (Ca)	33.0
Magnesium (Mg)	15.9
Sodium (Na)	24.0
Potassium (K)	3.5
Manganese (Mn)	0.0
Chloride (Cl)	19.8
Sulfate (SO ₄)	21.6
Fluoride (F)	0.0
Nitrate (NO ₃)	5.0
Free Carbon Dioxide (CO ₂)	15

This water is classed as a hard bicarbonate type. Because of its hardness it will be scale-forming and will require treatment for use in steam boiler operation. It is low in iron and non-corrosive, so should not cause iron staining of laundry or fixtures.

Except for the nuisance due to hardness the water should be satisfactory for general domestic use and irrigation.

DEPARTMENT OF TRANSPORTATION, OREGON



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-SALEM, OREGON

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

CROO 53759

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02-08-2010

WELL LABEL # L 102606

START CARD # 1009332

(1) LAND OWNER Owner Well I.D. 1542 First Name Last Name Company THE CITY OF PRINEVILLE Address 397 NE 3RD STREET City PRINEVILLE State OR Zip 97754

(2) TYPE OF WORK [X] New Well [] Deepening [] Conversion [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Cable Mud [] Reverse Rotary [] Other

(4) PROPOSED USE [] Domestic [] Irrigation [] Community [X] Industrial/ Commercial [] Livestock [] Dewatering [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] Attach copy Depth of Completed Well 280.00 ft.

Table with columns: Dia, From, To, Material, From, To, Amt, sacks/lbs. Rows include Bentonite and Cement.

How was seal placed: Method [] A [] B [X] C [] D [] E [X] Other POURED IN DRY Backfill placed from ft. to ft. Material Filter pack from ft. to ft. Material Size Explosives used: [] Yes Type Amount

(6) CASING/LINER Casing Liner Dia + From To Gauge Sil Plst Wld Thr

Shoe [] Inside [] Outside [] Other Location of shoe(s) Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS Perforations Method TORCH Screens Type Material

Table with columns: Perf, Casing, Screen, Dia, From, To, Sem/slot width, Slot length, # of slots, Tels/pipe size

(8) WELL TESTS: Minimum testing time is 1 hour [] Pump [] Bailer [X] Air [] Flowing Artesian Yield gallon Drawdown Drill stem Pump depth Duration (hr)

Temperature 57 F Lab analysis [] Yes By Water quality concerns? [] Yes (describe below) From To Description Amount Units

(9) LOCATION OF WELL (legal description) County Crook Twp 14.00 S N/S Range 15.00 E E/W WM Sec 23 SE 1/4 of the SE 1/4 Tax Lot 602

FREIGHT DEPOT 3875 NW LAMONTA RD

(10) STATIC WATER LEVEL Date SWL (psi) SWL (ft) Existing Well / Predeepening Completed Well 02-05-2010 16

WATER BEARING ZONES Depth water was first found 265 Table with columns: SWL Date, From, To, Est Flow, SWL (psi), SWL (ft)

(11) WELL LOG Ground Elevation Material From To SANDY TOPSOIL 0 3 RIVER ROCK 3 15 COARSE BLACK SAND 15 21 BROWN CLAY & GRAVEL 21 28 GREY CLAY 28 265 GRAVEL CONG 265 275 GREY CLAY 275 280

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WATER RESOURCES DEPT SALEM, OREGON

Date Started 02-01-2010 Completed 02-05-2010

(unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number 1889 Date 02-08-2010 Electronically Filed Signed JAMES H. WILLIAMS (E-Filed)

(bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 584 Date 02-08-2010 Electronically Filed Signed DARRELL MAPPET (E-Filed) Contact Info (optional)

T 11026

