

**CROO**  
**1540**

(1) OWNER:  
Name Pacific Power & Light Company  
Address 920 S. W. 6th Avenue  
Portland 4, Oregon 97204

(2) LOCATION OF WELL:  
County Crook County Owner's number, if any— Well #7  
NW 1/4 NW 1/4 Section 31 T. 14S R. 16 E W.M.  
Bearing and distance from section or subdivision corner  
S 58° 13' 20" East 1447 feet from N.W. corner  
of Section 31, T 14 S, R 16 E, WM.

(3) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 11.

(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   
24" O. Diam. from 0 ft. to 230 ft. Gage 5/16" wall  
12" I. Diam. from 0 ft. to 228 ft. Gage 5/16" wall  
12" I. Diam. from 253 ft. to 256 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 A D Cook & Son  
Type Wire Wound Model No. 75WS  
In. 12" ID Slot size 25 Set from 228 ft. to 253 ft.  
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:  
Was well gravel packed?  Yes  No Size of gravel:  
Gravel placed from 253 ft. to 205 ft.  
Was a surface seal provided?  Yes  No To what depth? 15 ft.  
Material used in seal— Concrete  
Did any strata contain unusable water?  Yes  No  
Type of water? Surface Water Depth of strata 0 to 12 ft.  
Method of sealing strata off Cased off and concrete seal.

(10) WATER LEVELS:  
Static level 17 ft. below land surface Date Sept. 4, '57  
Artesian pressure Slight lbs. per square inch Date Sept. 27, '57  
Log Accepted by: PACIFIC POWER & LIGHT COMPANY  
[Signed] George J. Pragg Date January 28, 1958.  
Vice President (Owner)

(11) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom?  
Yield: 550 gal./min. with 84 ft. drawdown after 8 hrs.  
" 800 " 200 " 1 "  
" " " " " "  
Bailer test NO gal./min. with ft. drawdown after hrs.  
Artesian flow Slight g.p.m. Date Sept. 27, 1957  
Temperature of water - Was a chemical analysis made?  Yes  No  
Attached.

(12) WELL LOG: Diameter of well 24 inches.  
Depth drilled 256 ft. Depth of completed well 256 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
Soft sand	0	2
Sand Stone & Surface Water	2	12
Clay	12	19
Gravel with Clay Binder	19	31
Sandy Silt	31	52
Sandy Silt & Some Gravel	52	57
Sandy Silt	57	101
Sandy Silt & Some Gravel	101	122
Silt	122	194
Sticky Shale	194	223
Yellow Silt	223	228
Cemented Gravel	228	231
Sand & Gravel, Water Bearing	231	252
Yellow Clay	252	256

Work started May 20 1957. Completed Sept. 4 1957

(13) PUMP:  
Manufacturer's Name Fairbanks Morse Co. Pamona Pump D  
Type Deep well turbine H.P. 50

Well Driller's Statement:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**R. J. Strasser Drilling Co**  
NAME \_\_\_\_\_ (Person, firm, or corporation) (Type or print)  
Address 8110 SE Sunset Lane -Portland 6, Oregon  
Driller's well number 3092  
[Signed] Robert L. Strasser - Partner (Well Driller)  
License No. 10 Date Jan. 23, 1958

# 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 16E 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.

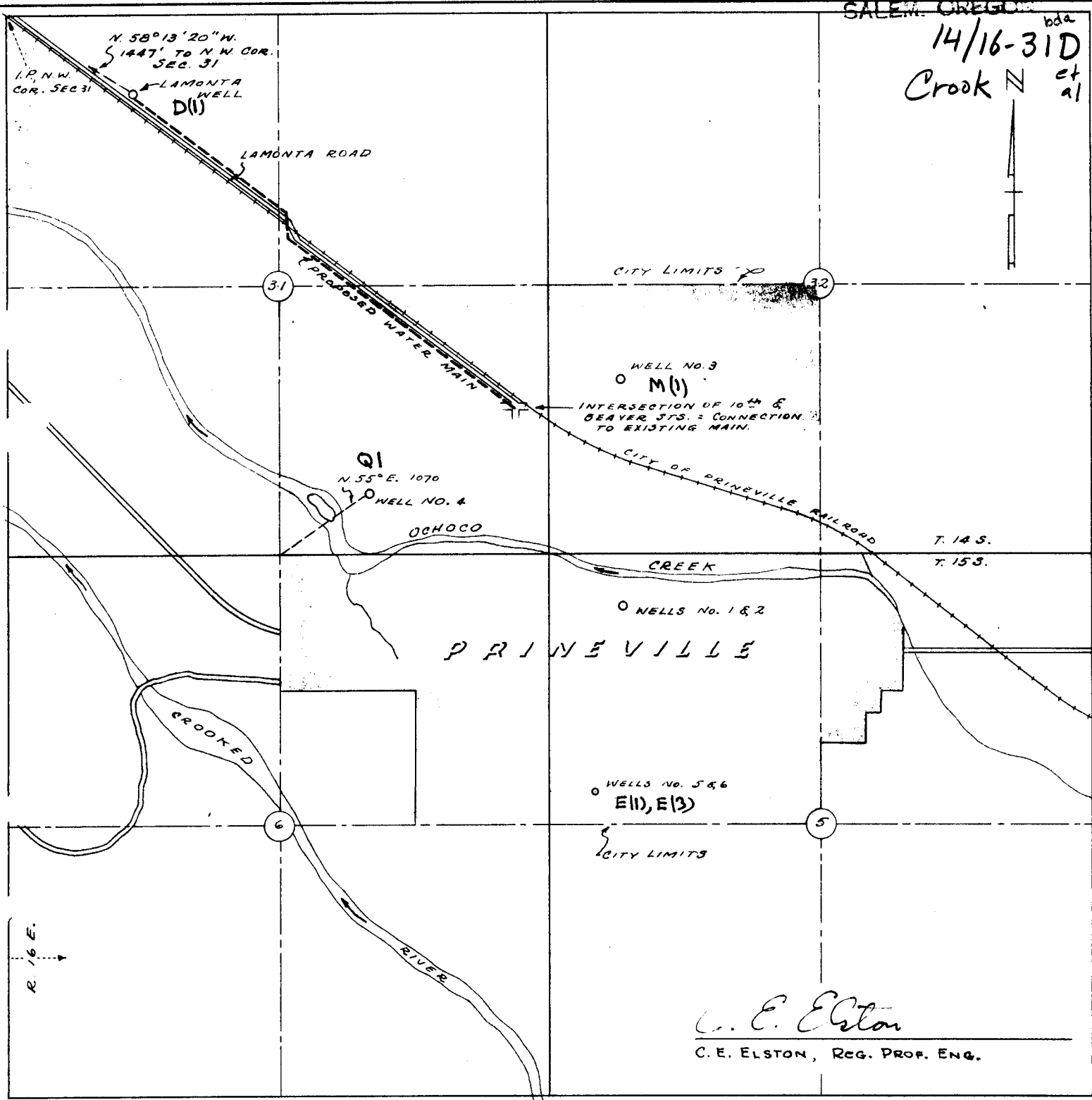


Application No. G-605  
 Permit No. G-506

CROO 1540

**RECEIVED**  
 APR 5 1957  
 STATE ENGINEER  
 SALEM, OREGON

14/16-31D  
 Crook N et al



*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.

*C. E. Elston*

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  
 SCALE: 4" = 1 Mile March, 1957

AMERICAN SOCIETY OF TESTING MATERIALS  
1400 R STREET, N.W.  
WASHINGTON, D.C. 20004  
TELEPHONE 462-6000

14/16-310(1)  
CROOK CO.

TO:

SUBJECT:

Deep well  
Petersville Well #4

DATE RECEIVED: 11-25-57

PH 7.25

7.25

parts per million

Total Solids (Residue on Evaporation)	271
Volatile Solids (Loss on Ignition)	21
Alkalinity (as CaCO <sub>3</sub> )	
Carbonate	0
Bicarbonate	142
Hardness (as CaCO <sub>3</sub> )	148
Silica (SiO <sub>2</sub> )	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 <sub>4</sub> )	21.6
Fluoride (F)	0.0
Nitrate (NO <sub>3</sub> )	5.0
Free Carbon Dioxide (CO <sub>2</sub> )	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.

CHARLTON LABORATORIES, INC.

