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STEINMAN BROS. DRILLING CO.

Phone: (503) 654-2890

35/4E-33CA
CLAC
014943

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

Well #

14-86

(1) OWNER: **SALEM, OR** Owner's Well Number: **Paraday #2**
 Name Portland General Electric Company
 Address 121 S. W. Salmon Street
 City Portland State Oregon Zip 97214

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:
 Depth of Completed Well 380 ft.
 Special Standards date of approval _____

HOLE		SEAL		Amount sacks or pounds
Diameter	From To	Material	From To	
10-in.	0 36'	Grout	0 36'	29 sacks

How was seal placed? Method A B C D E
 Other _____
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6-inch	+2'	97'	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 4-inch	80'	380'	.188	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Glued

Final location of shoe(s) 97 feet

(7) PERFORATIONS/SCREENS:

Perforations Method Saw
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
2'	378'		180	4-inch		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Pumping level	Drill stem at	Time
15 gpm	259'		1/2 hr
15 gpm	308'		1 hr
15 gpm	314'		4 hrs.

Temperature of water 53° Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County Clack. Latitude _____ Longitude _____
 Township 3-South N or S, Range 4-East E or W, WM.
 Section 33 S.W. 1/4 N.E. 1/4
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Faraday Hydro Plant,
Hwy. 221, Estacada, Oregon 97023

(10) STATIC WATER LEVEL:
196 ft. below land surface. Date 7-14-86
 Artesian pressure _____ lb. per square inch. Date _____

(11) WELL LOG: Ground elevation 508 feet

Material	From	To	WB?	SWL
Clay: brown	0	2		
Loose cemented gravel and large boulders; 36 inch minus	2	31		
Cemented gravel and cobbles	31	84		
Midstone: grey-brown	84	123		
Eagle Creek Rock	123	202		
Shale: grey	202	211		
Shale: blue	211	212		
Shale: grey	212	221		
Basalt: grey, med.-hard	221	240		
Basalt: black	240	246		
Basalt: with green clay seams	246	249		
Basalt: with brown clay seams	249	256		
Basalt: brown, hard	256	277		
Basalt: black, med.-soft	277	281		
Basalt: black, hard	281	302		
Basalt: black with white specks	302	319		
Basalt: black with red streaks, med.-hard	319	338		
Basalt: grey, with green to blue-grey seams, med.-hard	338	345		
Soapstone: grey	345	352		
Basalt: grey, med.-hard	352	359		
Basalt: porous, black	359	372	18 gpm	196
Basalt: black, med.-hard	372	380		

Date started June 6, 1986 Completed July 14, 1986

(unbonded) Water Well Constructor Certification:
 I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ Date _____

(bonded) Water Well Constructor Certification:
 I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.

Signed Ronald F. McConnell Date July 24, 1986
 Company Steinman Bros. Drilling Co. Job No. 14-86