

01S/03E-01BDC

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6711 N. E. 58th Ave.
Vancouver, Wash. 98661

Phone: 694-6242

HANSEN DRILLING CO., Inc.

#8

LOG

228

Name Northwest Natural Gas Co.
Mail: 123 N. W. Flanders, Pt'd, Ore. 97209
Address Troutdale Road & S.E. 40th, Troutdale Ore.

Date Started 11/3/77 Date Finished 11/8/77

DESCRIPTION:

- (a) Well Depth 300 ft. Diameter 10"
- (b) Depth from ground surface to water level before
pumping ft. Bailer tested GPM
- (c) Drawdown of water level is feet.
(pumping level minus static water level)
- (d) Casing - screen - perforation - shoe - etc.

MATERIAL

20 ft. 10" pipe	2 bags cement
300' 1" pipe	29 bags mud gel
20 bags coke	2½ yds gravel
15 bags graphite	

TIME

1½ hrs standby for engineers
7 hrs mobilization & clean up
16½ hrs Drilling
4½ hrs run anodes, circulate, dump coke,
graphite, gravel

R300-Rotary/Nustad

PIONEER PTC. 1M

plat 31-57

#228

at 280

Log on Ground Information

Material	Depth
Top soil	0 - 2
Sand & clay	2 - 10
Cemented gravel	10 - 20
Gravel, boulders	20 - 55
Sand, gravel cemented } 225	55 - 100 186
Small gravel } 186	100 - 130 150
Basalt, hard } Cem gr 150	130 - 142
Basalt, broken soft } 2 bldr	142 - 152 128
Green clay }	152 - 155
Brown clay }	155 - 181
Decomposed basalt - Cem. sand gr 99	181 - 285 - 5
Cemented gravel	285 - 300

PORTLAND
NATURAL GAS COMPANY
N. ALBANY

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