

## WELL DATA

Operator: Oregon Natural Gas Development Corporation, Portland, Oregon

Well Name: Werner 34-21

Location: 389.57' N and 1585.5' W of SE Corner, Sec. 21, T5S,  
R2W, WB&M, Marion County, Oregon

Spud: November 13, 1984

Complete  
Drilling: November 27, 1984

Elevation: 181' G.L.; 193.5' KB

Status: Suspended

Total Depth: 2808' Driller's depth  
2806' Logged depth (Schlumberger)

Hole Specifi-  
cations: 17½" surface to 240'; 12¼" 240' to 1603'; 7-7/8" 1603' to 2808'

Casing: 13-5/8" Surface to 239' - Cemented with 200 sacks Class G cement.  
8-5/8" Surface to 1603' - Cemented with 730 cu. ft. cement,  
perlite and 1% gel. Returns to 105' Cemented annular space  
with 60 sacks cement.

Contractor: Taylor Drilling Co., Chehalis, Washington Rig #4

Company  
Geologist: Jack Meyer; Wes Bruer

Petroleum  
Engineer: Charlie Stinson

Well Site  
Super-  
intendent: W. W. "Boots" Lipscomb

Tool Pusher: Jiggs Colclasure

Type Mud: Lignosulfonate

Mud Company: Beaver Drilling Fluids Co., Aloha, Oregon

Maximum  
Bottom Hole  
Temperature: 97° F

Mud Logging  
Company: Western Geo-Engineers, Woodland, California  
239' to TD

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-2-

Logging: Schlumberger Well Logging Service Co., Sacramento, California.

Logs: SP and Dual Induction 1604' to 2806'  
Sonic 1604' to 2860'  
Dipmeter 1604' to 2806'  
Formation Density/Compensated Neutron/Gamma Ray 1604' to 2806'

Other  
Services: Haliburton, Rio Vista, California

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