

WELL DATA

Operator: OREGON NATURAL GAS DEVELOPMENT CORPORATION

Well Name: OM 41A-10

Location 1069' S and 355' W from the SE corner, Sec. 10, T6N, R5W, WB&M, Columbia County, Oregon

Elevation: 899.9' G. L.; 911.4' KB

Spud: December 4, 1986

Complete Drilling: December 15, 1986

Status: Completed as water observation well

Total Depth: 3,067' driller's depth  
3,070' logger's depth

Hole Specifications: 12 $\frac{1}{4}$ " surface hole to 435'; 7 7/8" 435-3067'

Casing: 8 5/8" K-55, 32.0 lb., ST&C surface to 422. Cemented to surface with 344 ft.<sup>3</sup> 1:1 perlite mixed with 2% gel, 2% CaCl. 5 $\frac{1}{2}$ " K-55, 15.5 lb., LT&C, surface to 3063. Cemented with 615 sacks Class G, mixed with 1% CaCl, 1% CFR3, .1% Halad 4, 3% KCl. No cement to surface.

Contractor: Taylor Drilling Company, Chehalis, WA Rig #5

Company Geologist: H. Jack Meyer

Petroleum Engineer: Charles E. Stinson

Well Site Super.: Todd A. Thomas

Tool Pusher: Steve Hokanson

Mud Type: Lignasulfonate

Mud Company: Beaver Drilling Fluids, Inc., Vancouver, WA

Maximum Bottom Hole Temperature: Less than 100° F.

Mud Logging Company: Western Geo-Engineers, Woodland, CA  
Surface to TD

Wireline Company: Dresser Atlas, Woodland, CA

Perforations or Liner Interval: 2402-2453' 2455-2480' 2482-2508' 2514-2532'  
2534-2542' 2544-2574' 2576-2584' 2586-2628'  
2632-2654' 2680-2710'  
2 shots/ft., 3 1/8" jumbo jet perforating gun

Other Service Companies: Cementing - Halliburton  
Coring - Eastman Christensen