

## WELL HISTORY

Werner #34-21

RECORD DATE

10 2 1984

DEPT OF GEOL. SURV.  
ALBANY, N.Y.

11/13/84 Spud-in at 12:00 noon. Drill clays and gravels to 197'

11/14/84 Drill clays and gravels to 239'. Run 6 jts. of 13-3/8, K-55, 54.5# casing to 239'. Cement around shoe with 200 SX Class G cement treated with 2% CaCl<sub>2</sub>. Cement in place at 7:20 p.m.

11/15/84 Drill 12-1/4" hole in clay to 784'

11/16/84 Drill clay and basalt to 1206'

11/17/84 Drill basalt to 1320'

11/18/84 Drill basalt to 1416'

11/19/84 Drill basalt to 1538'

11/20/84 Drill basalt to 1603'. Wipe hole. Run 41 jts of 8-5/8" K-55, 24# casing to 1603' with float collar at 1564. Cement with 730 CF cement and perlite (50% mix), 1% gel, and 3% CaCl<sub>2</sub>. Cement in place at 5:15 a.m. No returns to surface. Run in annulus to top of cement at 191' and pump 60 sx Class G cement with 3% CaCl<sub>2</sub>. Cement in place at 6:45 a.m. Good returns to surface.

11/21/84 Wait on cement. Land casing. Install and test 10" 3000 psi BOP equipment. Drill cement.

11/22/84 Drill 7-7/8" hole in sand and clay to 2173'

11/23/84 Drill lignite, sand and clay to 2762. Gas show at 2425 of 403 units.

11/24/84 Drill shale to 2808'. Run Schlumberger Dual Induction Log and Accoustic Velocity Log. Dipmeter would not run in past 2100'. Rerun 7-7/8" bit to ream and condition hole.

11/25/84 Ream and condition hole 2324 to 2808. Run Dipmeter to 2800'. Wait on cementers.

11/26/84 Pump cement plugs for suspension (see plugging record)

11/27/84 Release rig at 6:00 a.m.