

cement with 144 bbls. drilling mud. Bumped plug with 3000 psi. Accumulated horizontal displacement at 15,970' (setting depth of 5 1/2" liner) is 517.13' (6.3° average deviation from 14,347 to 15,970' with maximum deviation of 7° at 15,970').

- 11-10-79 Tested manifold upper and lower pipe rams, upper and lower Kelly cocks, and Kelly to 9000 psig. Tested Hydril to 7000 psig. Tested Kelly hose and mud lines to 3000# psig. All held okay. TIH and tagged top of cement at 14,026'. Drilled cement and tagged top of liner at 14,036'.
- 11-11-79 Cleaned out top of liner to 14,045'. Pressure tested liner top to 2100 psig (11.47 ppg equivalent). Held okay. Drilled float collar and 20' firm cement to 15,945'. Pressure tested shoe joint to 2000 psig. Held okay. Drilled cement, float shoe, and new formation to 15,977'.
- 11-12-79 Tested formation to 2000 psig. (11.0 ppg equivalent). Held okay. Continued drilling new formation.
- 11-13-79 to 12-26-79 Drilled 4 1/2" hole to 16,775'.
- 12-27-79 Ran Sperry-Sun Magnetic directional survey from 16,000 - 16,610' with the following recorded.

<u>Depth</u>	<u>Angle</u>	<u>Direction</u>
16,000	14	N-26-E
16,100	18	N-45-E
16,200	32	N-56-E
16,300	38	N-72-E
16,400	46	N-77-E
16,500	56	N-82-E
16,600	60	N-79-E
16,610	61	N-85-E

Total horizontal displacement over interval 16,000' - 16,610' is 635.53' at North 25° 06 min - east.

Ran Gamma Ray and Gamma Ray-Neutron logs over interval 15,200 - 16,775'. Ran Sperry-Sun Magnetic Survey over cased interval surface to 15,900'.

- 12-28-79 Rigged up and spotted cement plug from 15,679' - 16,264' with 50 sx Class "H" cement containing 1% CFR-2, .5% HR-12, and 28# 100 - mesh sand/gal. Displaced cement with 3 bbls. fresh water and 94 bbls. drilling mud.
- 12-29-79 TIH and tagged cement at 15,747'.
- 12-30-79 to 1-2-80 Continued drilling to 16,000'.