

6" Hole and 5" Liner

After testing BOP and dressing cement to TOL with 8-1/2" bit the liner lap was tested to 3,500 PSI. The liner was then cleaned out to the set shoe and tested to 3,100 PSI. The shoe was drilled and a CCCT was performed to 20.0 PPG (w/o leak off). Formation was drilled to 3651.5 M (11,980') and a FCCT was performed to 20.0 PPG (w/o leak off). The hole was drilled to ATD of 4267 M (14,000') without hole problems. Contamination by CO₂ and connection gas trends required circulation for treatment and weight increases up to 15.5 PPG. Trip gas and CO₂ contamination prior to running the 5" liner necessitated increasing the mud weight to 15.8 PPG. All bit trips in this section were trouble free.

The hole was logged with all logs going to bottom.

After logging, a 6" bit was run to TD to work junk left by CST's, pending orders to drill ahead. The hole was plugged back from TD to 3,886.2 M (12,750') and the plug dressed to 4,032.5 M (13,230').

A 5" liner (42 jts, 18 PPF, N-80, Buttress) with a TIW hydraulic hanger was run and washed to 4,065.1 M (13,337') while attempting to tag the plug. After attempting to set the liner hanger, the liner was set on bottom at 4,065.1 M (13,337') with TOL at 3,557.6 M (11,672'). The liner was cemented with 195 sx 'G' + 35% SF, 53 PPS Barite, 2.0% CFR-2, 0.7% Halad 22-A, 2.0% HR-12 at 18.0 PPG.

Cement was dressed to TOL with a 6" bit and CSG scraper and to 3,949.3 M (12,957') with a 4-1/8" mill and CSG scraper. Drilling operations concluded on 3 March, 1986.