

AMOCO AUSTRALIA PETROLEUM COMPANY  
PELICAN NO. 5

DISCUSSION BY INTERVAL

6" HOLE INTERVAL (Cont'd)

General (Cont'd)

Drilling continued through Sandstones until at 12,262 ft (3737.3 m), the bit was pulled and a turbine and diamond bit were picked up. The trip to change the bit showed the hole to be in good condition. The turbine only drilled to 12,293 ft (3746.7 m), and due to the fact of its stalling out, it was pulled and replaced with a conventional bit.

During this stage, CO<sub>2</sub> contamination was still suspected and the excess Lime content was raised from 0.4 ppb - 1.0 ppb. When the bit was pulled and the turbine re-run, the test on the bottoms-up mud showed the Lime excess to be 0.3 ppb and the mud to be heavily contaminated by CO<sub>2</sub>. The pH was raised to 12.0 and the Lime content raised back to 1.0 ppb excess.

The turbine drilled ahead at 15 - 20 ft/hr (4.6 - 6.1 m/hr) and all the mud was passed over 100 mesh screens to maximise solids removal.

From 12,800 - 13,200 ft (3901 - 4023 m), the connection gas increased and the mud weight was subsequently raised to 15.3 ppg. Drilling continued to 13,363 ft (4073 m) where the turbine was pulled and replaced with a conventional bit. This trip showed the hole to be in good condition without any fill.

Drilling continued and the connection gases continued to rise. The mud weight was raised to 15.5 ppg.

At 13,765 ft (4195 m), the bit was pulled and the turbine run again. CO<sub>2</sub> gas contamination was still evident and Lime and Caustic additions were continued to combat this problem.

Between 13,900 ft (4237 m) and 14,000 ft (4267 m), connection and background gases continued to increase and the mud weight was raised to 15.8 ppg.