



**EXPLORATION
LOGGING
OF AUSTRALIA INC.**

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GEOLOGICAL-ENGINEERING REPORT No.2
Tilana No.1 / AMOCO AUSTRALIA
EXLOG UNIT 216 / DIAMOND M "EPOCH"

14th - 20th September 1985
5452 ft
1662 m

Report by : G.Hodge , J.Strautins

OPERATION SUMMARY

The following wireline log was run: ISF-BHC-GR-Cal-SP.

Drill-pipe was laid out and NB#5, a SMITH SDGH 17.5", was run in to open out the 12.25" pilot hole from 418-1661.7m (1372-5452'). The shallow calcarenites and clays were drilled rapidly at 300-500 ft/hr, but the progress slowed to 10-40 ft/hr through the volcanics. Minor mud losses to the formation were noted below 1326.7m (4353'), similar to the original pilot hole. But these never exceeded 20 bbl/hr, and were generally 10-15 bbl/hr. The torque became extremely high and erratic upon entering these volcanics. The gas increased at 1554m (5100') from 7 units to maximum of 44 units at 1597m (5240'). After circulating at 1662m (5452') for carbide returns, the bit was pulled with up to 80klb of drag. The bit was run in the hole with no tight sections. 1.5m (5') of fill was tagged. After circulating the hole, the bit was tripped out with only minor drag (to 20klb).

The 13.375" casing was run with the shoe set at 1651m (5418').

Cement (1607 sx Lead, 500 sx Tail) was pumped and displaced with the rig pumps. However, the wiper plug was seated early and 1036.6m (3401') of cement remained in the casing.

NB#6, a SMITH SDGH 12.25" (no jets), was run in and tagged soft cement at 614.8m (2017'), washed this to 639.1m (2097'), and drilled soft to firm cement to the float collar at 1624m (5329'). This was drilled with seawater which was dumped. There appeared to be no cement below the float. The casing was displaced with mud and a trip begun. After 15 stands, the well was seen to flow, the trip was reversed and heavier mud (9.1 ppg) was circulated and the trip completed.

Circulation was not possible through the casing and up the 17.5/13.375" annulus until the casing shoe was drilled with NB#7 (SMITH SDT 12.25"). After the casing had been circulated, a wireline bridge plug was set at 1624m (5320').

Current operations at 2400 hrs 20-9-85: RIH to sting into bridge plug.