



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

5th - 13th September 1985
Spud - 5452 ft
Spud - 1662 m

Report by : D.New , J.Strautins

OPERATION SUMMARY

The semi-submersible rig Diamond M "Epoch" arrived on location on the 2nd September 1985, and Tilana No.1 was spudded at 2030 hrs on the 5th September 1985.

NB#1, a HTC DGJ 26", was run in (see Table #1) in tandem with a 36" Hole-Opener, and tagged seabed at 104.5m (343') below the rotary table. This section was drilled to 208.8m (685') at which point a survey was run and a wiper trip performed. Deviation was only 0.5 degrees, and no fill was recorded on the trip in. The hole was displaced with hi-vis mud prior to tripping out.

Casing (30", 8 joints) was run and the shoe landed and cemented at 203.3m (667') (see Table #4). Cement returns were noted at the sea-floor.

RRB#1, the HTC DGJ 26", was run in and drilled cement, the shoe and new formation to 281.9m (925') where a survey was run (deviation 0 degrees). Drilling continued to 413.3m (1365') where another survey was run and retrieved at the 30" shoe. The survey was a misrun. The bit was run in again, but a bridge was noted at 403.8m (1325'). This interval to bottom was worked with the bit, a high-vis pill spotted, and another survey dropped and recovered during a short trip (0.5 degrees). No fill was recorded on the trip back to bottom. The hole was displaced with high-vis mud and the bit tripped.

Casing (20", 26 joints) was run and the shoe landed at 413.3m (1356'). Cement returns were observed at the sea-floor.

NB#2 SMITH DSJ 17.5" drilled the shoe and new formation to 418.2m (1372') at which point an FIT was performed. The formation was seen to fracture at 15.3 ppg EMW. The bit was tripped to continue drilling with a 12.25" pilot hole.

NB#3 SMITH SDT 12.25" drilled at a variable ROP to 1292.3m (4240') where the bit was tripped due to decreasing rate of penetration. Surveys taken at 500' intervals indicated hole angle to be less than a maximum of 1.5 degrees. Drag on the trip out was only apparent in one location at 640m (2100').

NB#4, a SMITH F2CE 12.25", was run in and encountered a bridge at 987.9m (3242') and reamed/washed to 1123.4m (3686'). Reaming/washing was also required over the interval 1267.9m (4160') to bottom. Trip gas was 32u. Drilling continued to 1383.7m (4540') where a steady mud loss was noted, and the flow rate was decreased