

EXLOG**GEMDAS LOGGING REPORT NO. 31**

COMPANY AMOCO AUST. WELL Tilana No.1
 DATE 10 October 1985 TIME 0500 Hrs
 DEPTH 3066m - 10059 ft TD LAST REPORT DEPTH 3058m - 10033 ft
 RIG OPERATIONS Running Wireline logs:
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)

DRILLING REPORT

Bit No.: 15 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14
 On Bit: Footage: 259m / 849 ft Hours: 66.6 Drilling ROP: 3.9m/hr : 12.7 ft/hr WOB: 44 RPM: 87
 Pump Press: 2880 SPM: 123 Torque: 3.3-3.7 TBR: 364,000 CP I: \$ 2510 CP B: \$ 1415

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.3-9.4 ppg ECD: 9.4 ppg PV/YP: 24/17
 Gels: 5/11 Salinity: 2100 PPM Cl Solids: 6 %
 Hole Volume: 1538 bbl Annular Volume: 1269 bbl Tubing Volume: 169 bbl Displaced Volume: 101 bbl
 Carbide Lag—Calculated Lag: 320 strokes at 2871m. Flowrate: 612 gpm
 Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min
 Drill Collar Annular Vel (Open Hole): 174 " Critical Vel: 375 "
 Pressure Loss System: Calc. 3025 psi Pressure Loss Bit: 1575 psi % Pressure Loss: 55
 Nozzel Vel: 435 ft/sec Jet Impact Force: 1283 lbs HHP: 562

PRESSURE PARAMETERS

Drilling Exponent: 1.92 at 2.4 m/hr Flowline Temperature: 59°C ; Max 64°C
 Shale Density: - Shale Factor: -
 Background Gas: 60 Max. Formation Gas: 150 @ 3065m Trip Gas: Nil @ -
 Other Gas: Nil - no connection gas;
 Fill: - Tight Hole: Minor on trip out at 3066m.
 Cavings: Est %: Minor; 5% Average Size: Small, <10mm

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.2 / 2.9 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg
 Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ -
 Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ - Estimated Fracture Pressure at TD: 14.0 ppg

Comments: Drill to 3066m (10059 ft) - total depth for Tilana #1;
Circulate returns, drop multi-shot survey - POOH; minor drag
to 15kbs;

Run Wireline logs:

Corrected Annular Volume: 1579 bbls / Corrected Annulus: 1309 bbls.
Surface HHP: 1028 / HHP/area of bit: 4.77 / sq in of bit.