



# GEMDAS LOGGING REPORT NO. 36

COMPANY AMOCO Aust. WELL Tilana No.1  
 DATE 15 October 1985 TIME 0500 Hrs.  
 DEPTH 3292m : 10801 ft LAST REPORT DEPTH 3225m : 10581 ft  
 RIG OPERATIONS Drilling 12.25" hole section;  
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)  
SIGNED

## DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14  
 On Bit: Footage: 226m/741 Hours: 66.2 ROP: 3.4 m/hr; 11.2 ft/hr WOB: 45 RPM: 88  
 Pump Press: 2770 psi SPM: 122 Torque: 3.0-4.3 TBR: 348,000 CP I: \$ 3295 CP B: \$ 1565

## HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4 ppg ECD: 9.5 ppg PV/YP: 21/16  
 Gels: 5/12 Salinity: 2100 PPM Cl Solids: 5 %  
 Hole Volume: 1645 bbl Annular Volume: 1357 bbl Tubing Volume: 182 bbl Displaced Volume: 106 bbl  
 Carbide Lag—Calculated Lag: 760 strokes at 3159m. Flowrate: 605 gpm  
 Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 119 ft/min  
 Drill Collar Annular Vel (Open Hole): 172 " Critical Vel: 354 "  
 Pressure Loss System: Calc 2970 psi Pressure Loss Bit: 1540 psi % Pressure Loss: 56  
 Nozzel Vel: 430 ft/sec Jet Impact Force: 1253 lbs HHP: 543

## PRESSURE PARAMETERS

Drilling Exponent: 1.84 at 3.4 m/hr Flowline Temperature: 52°C; Max: 61°C  
2.09 " 1.4 "  
 Shale Density: \_\_\_\_\_ Shale Factor: \_\_\_\_\_  
 Background Gas: 7-10v Max. Formation Gas: 52v @ 3258m Trip Gas: Nil @ \_\_\_\_\_  
 Other Gas: Nil - no connection gas.  
 Fill: Nil Tight Hole: Nil  
 Cavings: Est %: Minor Average Size: Small

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.9 ppg / 2.6 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: 14.2 ppg

Comments: Drilling in Volcanics, siltstones, minor coal beds.  
No abnormal pressure indicators.  
Lag: Actual 12210 stks; Calculated 11495 strokes.  
Corrected Hole Vol: 1730 bbl; Corrected Annulus Vol: 1442  
Surface HHP: 977; 4.61/sq in of bit