



# GEMDAS LOGGING REPORT NO. 34

COMPANY AMOCO AUST. WELL Tilana No.1  
 DATE 13 October 1985m. TIME 0500 hrs  
 DEPTH 3157m ; 10358 ft. LAST REPORT DEPTH 3074m : 10085'  
 RIG OPERATIONS Drilling 12.25" hole section : Volcanics  
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)  
SIGNED

## DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 3x14  
 On Bit: Footage: 91m/298' Hours: 23.6 ROP: 3.9m/hr : 12.70% WOB: 41-44 RPM: 85  
 Pump Press: 2910 psi SPM: 124 Torque: 2.7-3.0 TBR: 124,000 CP I: \$ 1600 CP B: \$ 1540

## HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4-9.5 ppg ECD: 9.5 ppg PV/YP: 27/21  
 Gels: 6/11 Salinity: 2200 PPM Cl Solids: 5 %  
 Hole Volume: 1581 bbl Annular Volume: 1304 bbl Tubing Volume: 174 bbl Displaced Volume: 103 bbl  
 Carbide Lag—Calculated Lag: 320 stks at 287m Flowrate: 617 gpm  
 Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 121 ft/min  
 Drill Collar Annular Vel (Open Hole): 176 " Critical Vel: 432 "  
 Pressure Loss System: Cok: 3145 psi Pressure Loss Bit: 1600 psi % Pressure Loss: 55  
 Nozzel Vel: 439 ft/sec Jet Impact Force: 1304 ~~576~~ lbs HHP: 576

## PRESSURE PARAMETERS

Drilling Exponent: 1.78 at 3.3 m/hr Flowline Temperature: 62 °C  
 Shale Density: \_\_\_\_\_ Shale Factor: \_\_\_\_\_  
 Background Gas: 7-8v Max. Formation Gas: 40v @ 3082m Trip Gas: \_\_\_\_\_ @ \_\_\_\_\_  
 Other Gas: Nil; gas decreased when volcanics intersected.  
 Fill: Nil Tight Hole: Nil  
 Cavings: Est %: Minor, 5% Average Size: Small, blocky mostly

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.0 ppg / 2.7 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: ≈ 17 ppg

Comments: Flow checks at 3062.5 & 3081m both negative;  
Intersect volcanics at 3117m.  
No overpressure indicators.  
Corrected Hole Vol: 1622 bbl Corrected Annulus Vol: 1345 bbl  
Surface HHP 1048 : HHP/Area : 4.89 /sq in of bit