



## GEMDAS LOGGING REPORT NO. 48

COMPANY AMOCO Aust WELL TILAMA No1  
 DATE 27/10/85. TIME 05:00  
 DEPTH 3841m; 12602 ft. LAST REPORT DEPTH 3752m; 12310 ft.  
 RIG OPERATIONS Drilling 12.25" hole section: Volcanics  
 REPORT BY ~~D. NEW~~ G. Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)  
SIGNED

## DRILLING REPORT

Bit No.: 20 Type: Smith F2 Size: 12.25" Jets: 3x14  
 On Bit: Footage: 89m; 292' Hours: 20.1 ROP: 4.4m/hr; 14.5ft/hr WOB: 44 RPM: 90  
 Pump Press: 2980 psi SPM: 120 Torque: 4.7-5.5 TBR: 108,000 CP I: \$ 2060 CP B: \$ 1365

## HYDRAULICS REPORT

Mud Density In: 9.9 ppg Mud Density Out: 9.9 ppg ECD: 10.0 ppg PV/YP: 20/19  
 Gels: 3/10 Salinity: 2300 PPM CI Solids: 9 %  
 Hole Volume: 1908 bbl Annular Volume: 1575 bbl Tubing Volume: 214 bbl Displaced Volume: 119 bbl  
 Carbide Lag—Calculated Lag: 900 strokes at 3617m Flowrate: 596 gpm  
 Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 117 ft/min  
 Drill Collar Annular Vel (Open Hole): 170 " Critical Vel: 374 "  
 Pressure Loss System: Calc 3175 psi Pressure Loss Bit: 1590 psi % Pressure Loss: 53  
 Nozzel Vel: 424 ft/sec Jet Impact Force: 1295 lbs HHP: 553

## PRESSURE PARAMETERS

Drilling Exponent: 1.70 at 3.5 m/hr Flowline Temperature: 53°C; Max 64°C  
 Shale Density: - Shale Factor: -  
 Background Gas: 5-6v Max. Formation Gas: 11.5v @ 3783m Trip Gas: Nil @ -  
 Other Gas: No Connection gas.  
 Fill: Nil Tight Hole: On connection at 3807m; 80-100 k/lb.  
 Cavings: Est %: Minor, <10% Average Size: Small, blocky.

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.9 ppg / 2.0 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): 9.4 ppg @ 3570m Estimated Fracture Pressure at TD: 16.1 ppg

Comments: Drill ahead - small drill breaks  
Tight hole on connection at 3807m; 80-100 k/lbs over pull

Lag: 14300 stks Theoretical Lag: 13340 stks  
 Surface HHP 1036 HHP/sq in 4.6g  
 Corrected Hole: 2021 bbl; Corrected Annulus: 1688 bbls