



## GEMDAS LOGGING REPORT NO. 27

COMPANY Anoco Aust. WELL TILANA No 1  
 DATE 6/10/85 TIME 05:00  
 DEPTH 2826m, 9272' LAST REPORT DEPTH 2788.6m (9149ft)  
 RIG OPERATIONS Drilling 12.25" hole section, Sandstone.  
 REPORT BY Gary Hodge REPORT RECEIVED BY J. GULLORY (OPERATOR)  
 SIGNED

## DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14  
 On Bit: Footage: 18.8m/62' Hours: 2.8 ROP: 6.7m/hr / 22ft/hr WOB: 40-44 RPM: 90  
 Pump Press: 2950 psi SPM: 124 Torque: 2.6-2.9 TBR: 27,000 CP I: \$ 1690 CP B: \$ 2430

## HYDRAULICS REPORT

Mud Density In: 9.4 ppg Mud Density Out: 9.5 ppg ECD: 9.5 ppg PV/YP: 25/18  
 Gels: 4/16 Salinity: 3,300 PPM Cl Solids: 6 %  
 Hole Volume: 1424 bbl Annular Volume: 1174 bbl Tubing Volume: 155 bbl Displaced Volume: 95 bbl  
 Carbide Lag—Calculated Lag: 680 strokes at 257m. Flowrate: 615 gpm  
 Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 121 ft/min  
 Drill Collar Annular Vel (Open Hole): 175 " Critical Vel: 387 "  
 Pressure Loss System: Calc. 3020 psi Pressure Loss Bit: 1610 psi % Pressure Loss: 55%  
 Nozzel Vel: 438 ft/sec Jet Impact Force: 1311 lbs HHP: 578

## PRESSURE PARAMETERS

Drilling Exponent: 1.83 at 2.9 m/hr Flowline Temperature: 51 °C  
 Shale Density: - Shale Factor: -  
 Background Gas: 2-3v Max. Formation Gas: 3v @ - Trip Gas: 19v @ 2788.6m  
 Other Gas: Nil, no connection gas;  
 Fill: - Tight Hole: Nil on trips  
 Cavings: Est %: Minor, <10% Average Size: Small, mostly blocky

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.4 ppg / 3.0 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): 8.7 ppg @ - Estimated Fracture Pressure at TD: 13.6 ppg

Comments: Cut Core #2 from 2788.6-2807.3m (9149-9210ft) in 2.1 hours, Recov-  
 ery 100%. Run in NB#16, ream cored rat-hole in 2.3 hrs;  
 Drill ahead with minor drill-breaks,  
 Lithology - dominantly sandstone;

Corrected Hole Vol: 1498 bbls / Corrected Annulus Vol: 1249 bbls  
Surface HHP 1058 / Bit HHP per area 4.9 HP/sq in