

GEMDAS LOGGING REPORT NO. 49

COMPANY AMOCO AUST WELL Tilana No.1  
 DATE 28 October 1985 TIME 0500 Hrs  
 DEPTH 3900.3m: 12796 ft LAST REPORT DEPTH 3841m: 12602 ft  
 RIG OPERATIONS Wiper trip at Total depth.  
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)  
SIGNED

## DRILLING REPORT

Bit No.: 20 Type: Smith F2 Size: 12-25" Jets: 14, 14, 14  
 On Bit: Footage: 1483m/487' Hours: 40.1 ROP: 3.7m/hr: 12.1ft/hr WOB: 44-46 RPM: 87-94  
 Pump Press: 2900 psi SPM: 121 Torque: 4.5-5.0 TBR: 216,000 CP I: \$ 1745 CP B: \$ 1483

## HYDRAULICS REPORT

Mud Density In: 9.7 ppg Mud Density Out: 9.8 ppg ECD: 9.8 ppg PV/YP: 19/16  
 Gels: 4/12 Salinity: 2100 PPM Cl Solids: 8.5 %  
 Hole Volume: 1937 bbl Annular Volume: 1599 bbl Tubing Volume: 218 bbl Displaced Volume: 120 bbl  
 Carbide Lag—Calculated Lag: 900 stks at 3617m Flowrate: 600 gpm  
 Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 118 ft/min  
 Drill Collar Annular Vel (Open Hole): 171 " Critical Vel: 339 "  
 Pressure Loss System: Calc: 316.5 psi Pressure Loss Bit: 1580 psi % Pressure Loss: 54  
 Nozzel Vel: 427 ft/sec Jet Impact Force: 1286 lbs HHP: 553

## PRESSURE PARAMETERS

Drilling Exponent: 1.81 at 3.3 m/hr Flowline Temperature: 61°C: Max 69°C  
 Shale Density: - Shale Factor: -  
 Background Gas: 6-7 v Max. Formation Gas: 26v @ 3856m Trip Gas: - @ -  
 Other Gas: Nil - no connection gas.  
 Fill: Nil Tight Hole: To 60 khs while circulating, returns at TD.  
 Cavings: Est %: Minor, <10% Average Size: Small, lumpy

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.8 ppg / 2.1 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 @ - Estimated Fracture Pressure at TD: 16-16.5 ppg

Comments: Drill to 12796 ft - 3900.3m - circulate Bottoms up;  
Drag to 60 khs while circulating. Wiper trip - no drag.  
Total Depth for Tilana No.1.

Corrected Hole Vol: 2052 bbls - Corrected Annulus Vol: 1714 bbls  
Annulus - Carbide: 14515 stks - Calculated 13540 stks  
Surface HHP: 1015 Bit HHP/Area = 4.69/sq in of bit