



GEMDAS LOGGING REPORT NO. 35

COMPANY AMOCO AUST. WELL Tilana No.1
 DATE 14 October 1985. TIME 0500 HRS
 DEPTH 3225m : 10581 LAST REPORT DEPTH 3157m; 10358 ft
 RIG OPERATIONS Drilling 12.25" hole section - Siltstone & coal.
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 3 1/4
 On Bit: Footage: 159m : 522' Hours: 43.4 ROP: 3.7m/hr : 12 ft/hr WOB: 42-44 RPM: 87
 Pump Press: 2840psi SPM: 124 Torque: 3.0-4.1 TBR: 227,000 CP I: \$ 1740 CP B: \$ 1500

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4 ppg ECD: 9.4 ppg PV/YP: 24/18
 Gels: 6/13 Salinity: 2300 PPM Cl Solids: 5 %
 Hole Volume: 1614 bbl Annular Volume: 1331 bbl Tubing Volume: 178 bbl Displaced Volume: 104 bbl
 Carbide Lag—Calculated Lag: 760 strokes at 3159m. Flowrate: 616 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: 3105 psi Pressure Loss Bit: 1590 psi % Pressure Loss: 56
 Nozzel Vel: 4.38 ft/sec Jet Impact Force: 1297 lbs HHP: 572

PRESSURE PARAMETERS

Drilling Exponent: 1.84 at 2.3 m/hr Flowline Temperature: 61 °C
 Shale Density: - Shale Factor: (1.5)
 Background Gas: 10-12v Max. Formation Gas: 128v @ 3181m Trip Gas: Nil @
 Other Gas: Nil; gas from coals; no connection gas
 Fill: Nil Tight Hole: Nil
 Cavings: Est %: Minor; Average Size: Small.

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: 14.2 ppg

Comments: Flow checks at 3165, 3176, 3210 & 3221 m all negative;
Returns circulated at 3178m.
Survey at 3216m - 3/4 (10427 ft)
Lag: Actual: 11975 Theoretical: 11275

Corrected Hole Vol: 1697 bbl Corrected Annulus Vol: 1414 bbl
 Surface HHP: 1021 HHP/area of bit: 4.85/sq in of bit