

GEMDAS LOGGING REPORT NO. 28

COMPANY Amoco Aust. WELL Tilana No.1
 DATE 7 October '85. TIME 0500
 DEPTH 9618 ft; 2931.5m LAST REPORT DEPTH 2826m; 9272'
 RIG OPERATIONS Drilling 12.25" hole - dominantly claystone
 REPORT BY Gary Hodge REPORT RECEIVED BY J. Guillory (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 16 Type: SMITH F2 Size: 12.25" Jets: 14, 14, 14
 On Bit: Footage: 408'/24 Hours: 24.8 ROP: 16.5 ft/hr / 5m/hr WOB: 40-43 RPM: 90
 Pump Press: 2830psi SPM: 123 Torque: 2.5-2.6 TBR: 143,000 CP I: 2010 CP B: 1250

HYDRAULICS REPORT

Mud Density In: 9.3 + ppg Mud Density Out: 9.4 ppg ECD: 9.5 ppg PV/YP: 24/18
 Gels: 5/13 Salinity: 3,000 PPM Cl Solids: 5 %
 Hole Volume: 1474 bbl Annular Volume: 1215 bbl Tubing Volume: 161 bbl Displaced Volume: 97 bbl
 Carbide Lag—Calculated Lag: 320 strokes at 2871m. Flowrate: 610 gpm
 Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min
 Drill Collar Annular Vel (Open Hole): 174 " Critical Vel: 384 "
 Pressure Loss System: Calc: 2990 psi Pressure Loss Bit: 1580 psi % Pressure Loss: 56
 Nozzel Vel: 434 ft/sec Jet Impact Force: 1288 lbs HHP: 563

PRESSURE PARAMETERS

Drilling Exponent: 1.77 at 3.5 m/hr Flowline Temperature: 55°C; Max 58°C
 Shale Density: - Shale Factor: 2
 Background Gas: 4v Max. Formation Gas: 27v @ 2909m Trip Gas: Nil @
 Other Gas: Nil, no connection gas; gas from coals;
 Fill: Nil Tight Hole: Nil
 Cavings: Est %: 5-10% Average Size: Small, <10mm;

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.3 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: 15.1 ppg

Comments: Drill ahead - flow check drill breaks at 2831.6m and 2846m - no flow.

Drill in Sandstones, claystones, siltstones, minor coals;

Corrected Hole Volume 1512 bbl / Corrected Annulus 1254 bbls
Surface HHP: 1007 Bit HHP/Area: 4.77 / sq in of bit.