



GEMDAS LOGGING REPORT NO. 33

COMPANY AMOCO AUST. WELL Tilana No.1
 DATE 12 October 1985 TIME 0500 HRS
 DEPTH B 3074m; 10085' LAST REPORT DEPTH 3066m; 10059'
 RIG OPERATIONS Drilling 12.25" hole.
 REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14
 On Bit: Footage: 8 Hours: 1 ROP: Av. 8m/hr WOB: 40-44 RPM: 85-90
 Pump Press: 2150 psi SPM: 105 Torque: 3.0-4.2 TBR: 5000 CP I: \$ 1250 CP B: \$ 3540

HYDRAULICS REPORT

Mud Density In: ppg Mud Density Out: ppg ECD: ppg PV/YP: ~~23~~ 23/20
 Gels: 5/12 Salinity: 2200 PPM Cl Solids: 6 %
 Hole Volume: 1542 bbl Annular Volume: 1272 bbl Tubing Volume: 101 bbl Displaced Volume: 169 bbl
 Carbide Lag—Calculated Lag: 320 stks at 2871m Flowrate: 520 gpm
 Drillpipe Annular Vel (Max. Dia. Sec.): ~~157~~ 39 ft/min Drillpipe Annular Vel (Open Hole): 102 ft/min
 Drill Collar Annular Vel (Open Hole): 148 " Critical Vel: 110 "
 Pressure Loss System: Calc 2230 psi Pressure Loss Bit: 1135 psi % Pressure Loss: 51
 Nozzel Vel: 370 ft/sec Jet Impact Force: 926 ~~375~~ lbs HHP: 0.345

PRESSURE PARAMETERS

Drilling Exponent: 1.71 at 4.5 m/hr Flowline Temperature: 45 °C
 Shale Density: — Shale Factor: —
 Background Gas: — Max. Formation Gas: — @ — Trip Gas: — @ 3066m
 Other Gas: —
 Fill: Minor Tight Hole: —
 Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: ppg / 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 ppg

Comments: Run Wireline logs;
Decided to drill ahead - BOP stack test;
Run in NB #16;
Flow Check at 3068.5 - negative;
Surf. HHP 652 2.9/sq in of bit.
Corrected Hole: 1582 bbl / Annulus 1312 bbl