



GEMDAS LOGGING REPORT NO. 16

COMPANY AMOCO AUST. WELL TILANA No1
 DATE 25/9/85. TIME 05:00
 DEPTH 6444' (1964m) LAST REPORT DEPTH 5850' (1783m)
 RIG OPERATIONS DRILL 12 1/4" HOLE
 REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#10 Type: SMITH SUB Size: 12 1/4 Jets: 3x15
(NB#10)
 On Bit: Footage: 124' Hours: 1.8 HRS ROP: 68.9 FT/HR WOB: 30-40 RPM: 110
 Pump Press: 2200 SPM: 121 Torque: 15-70 TBR: 11801 CP I: \$ 250 CP B: \$ 530

HYDRAULICS REPORT

Mud Density In: 9.0 Mud Density Out: 9.1-9.3 ECD: 9.2 PV/YP: 16/12
 Gels: _____ Salinity: _____ PPM Cl Solids: _____ %
 Hole Volume: 1026 BBL Annular Volume: 848 BBL Tubing Volume: 104 BBL Displaced Volume: 74 BBL
 Carbide Lag—Calculated Lag: 1678 STKS. Flowrate: 6149 gpm.
 Drillpipe Annular Vel (Max. Dia. Sec.): 46.1 FT/MIN Drillpipe Annular Vel (Open Hole): 120.3 FT/MIN
 Drill Collar Annular Vel (Open Hole): 174.8 FT/MIN Critical Vel: 292.8 FT/MIN
 Pressure Loss System: 1032 psi Pressure Loss Bit: 1168 pps % Pressure Loss: 53%
 Nozzel Vel: 380 FT/SEC Jet Impact Force: 1092 LBS HHP: 418 HP

PRESSURE PARAMETERS

Drilling Exponent: 0.8-1.51 Avg ~ 1.15 Flowline Temperature: 38°C
 Shale Density: _____ Shale Factor: _____
 Background Gas: 0.1 - 1.0 (0.002 Max. Formation Gas: 1.5 (0.03) @ 1806m (5925') Trip Gas: NIL @ 1926.4 (6320')
 Other Gas: NIL
 Fill: 25' ON TRIP IN Tight Hole: UP TO 60 HUB DRAG ON STAND 8 ON TRIP OUT
 Cavings: Est %: FW UP TO ~30% Average Size: SMALL, SANDSTONE

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.7 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg IN SIS
 Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ SHOBS
 Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ T.D Estimated Fracture Pressure at TD: 13.2 ppg

Comments: DRILL 12 1/4" HOLE TO 1926.4m. CR. DROP SCRUDY
AND POOH FOR BIT CHANGE DUE TO LOW ROP. MAKE UP NEW
BHA AND RTH WITH NB#10 DRILL AHEAD.
SURFACE HP = 788 HP. HP/SQ IN = 3.55
PRESSURE TRENDS NORMAL.
OCCASIONAL HIGH TORQUE FOR POSSIBLY DUE TO LOOSE
SAND.
LITHOLOGY: SANDSTONE/SILTSTONE
NB#9 AVG ROP = 49.7 FT/HR.