



GEMDAS LOGGING REPORT NO. 18

COMPANY AMOCO AUST. WELL TILANA No 1
 DATE 27/9/85. TIME 05:00
 DEPTH 7065' (2153m) LAST REPORT DEPTH 6742' (2055m)
 RIG OPERATIONS DRILL 12 1/4" HOLE
 REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#11 Type: SMITH F2 Size: 12 1/4 Jets: 3x15
 On Bit: Footage: 498 Hours: 31.7 ROP: 15.7 AVG. WOB: 35-40 RPM: 65
 Pump Press: 2370 SPM: 122 Torque: 2-3.5 TBR: 161314 CP I: \$ 800 CP B: \$ 1160

HYDRAULICS REPORT

Mud Density In: 9.1 Mud Density Out: 9.2 ECD: 9.22 PV/YP: 21/15
 Gels: _____ Salinity: _____ PPM Cl Solids: _____ %
 Hole Volume: 1120 BBL Annular Volume: 926 BBL Tubing Volume: 116 BBL Displaced Volume: 79 BBL
 Carbide Lag—Calculated Lag: 160 STHS Flowrate: 618 GPM
 Drillpipe Annular Vel (Max. Dia. Sec.): 121.1 FT/MIN Drillpipe Annular Vel (Open Hole): 46.4 FT/MIN
 Drill Collar Annular Vel (Open Hole): 176 FT/MIN Critical Vel: 345 FT/MIN
 Pressure Loss System: 1176 psi Pressure Loss Bit: 1194 psi % Pressure Loss: 50%
 Nozzel Vel: 383 FT/HR Jet Impact Force: 1117.2 LBS HHP: 430.6 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 1.9, 1.65 AVG. Flowline Temperature: 39.5°C
 Shale Density: _____ Shale Factor: _____
 Background Gas: 0-0.5u Max. Formation Gas: 0.5u @ 2039m Trip Gas: 0u (0%) @ 6921'
(0-0.01%) (0.01% (7017')) (21095m)
 Other Gas: NIL
 Fill: NIL Tight Hole: NIL ON WIPER TRIP
 Cavings: Est %: <5% Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.23 ppg BMW Min. Estimated Fracture Pressure (Open Hole): 13 ppg (S/S)
 Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ SHOB
 Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ T-D Estimated Fracture Pressure at TD: 18 ppg BMW

Comments: DRILL AHEAD TO 6778' (2066m) FLOW CHECK DRILLING
(BREAK (-NC)) DRILL AHEAD AT 3-GM/HR (10-20FT/HR) IN
DIORITE/VOLCANICS. WIPER TRIP AT 6921' (2109.5m) NO PROBLEMS
DRILL AHEAD.

LITHOLOGY: DIORITE/VOLCANIC.

SURFACE HP = 854.5 HP. HP/SQ IN = 3.65 HP.