



GEMDAS LOGGING REPORT NO. 19

COMPANY AMOCO AUST. WELL TILANA No1
 DATE 28/9/85 TIME 05:00 HRS
 DEPTH 7227' (2203m) LAST REPORT DEPTH 7065' (2153m)
 RIG OPERATIONS DRILL 12 1/4" HOLE.
 REPORT BY D. NEW REPORT RECEIVED BY J. GULLORI (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#12 Type: SMITH F3 Size: 12 1/4" Jets: 15, 15, 15
 On Bit: Footage: 54 Hours: 5.0 ROP: 10.8 FT/HR WOB: 35-42 RPM: 80
 Pump Press: 2320 SPM: 121 Torque: 3-3.5 TBR: 24491 CP I: \$ 1600 CP B: \$ 2602

HYDRAULICS REPORT

Mud Density In: 9.1 Mud Density Out: 9.2 ECD: 9.22 PV/YP: 24/20
 Gels: _____ Salinity: _____ PPM Cl Solids: _____ %
 Hole Volume: 1144 BBL Annular Volume: 945 BBL Tubing Volume: 119 BBL Displaced Volume: 80 BBL
 Carbide Lag—Calculated Lag: 163 STKS (19 BBL) Flowrate: 610 GPM
 Drillpipe Annular Vel (Max. Dia. Sec.): 45.8 FT/MIN Drillpipe Annular Vel (Open Hole): 119.6 FT/MIN
 Drill Collar Annular Vel (Open Hole): 173.7 FT/MIN Critical Vel: 418 FT/MIN
 Pressure Loss System: 1159 Pressure Loss Bit: 1161 PSI % Pressure Loss: 50
 Nozzel Vel: 378 FT/SEC Jet Impact Force: 1086.2 LBS HHP: 413.2

PRESSURE PARAMETERS

Drilling Exponent: 1.5-2.0 AVG 1.7 Flowline Temperature: 41.4
 Shale Density: _____ Shale Factor: _____
 Background Gas: 0-0.26% Max. Formation Gas: 0.34 (0.0046) 7086' Trip Gas: 0.02 (0.2) @ 7173'
(0.0046) (2160m) (2186m)
 Other Gas: NIL
 Fill: NIL Tight Hole: NIL
 Cavings: Est %: MINOR 45% Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.1 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg (S/S)
 Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 @ SMOG
 Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D. Estimated Fracture Pressure at TD: 18 ppg

Comments: DRILL TO 7173' (2186.3m) C.R. POOH FOR BIT CHANGE.
NO PROBLEMS ON TRIP. RTH WITH NB#12. DRILL AHEAD

LITHOLOGY: DOLERITE / GABBRO.

SURFACE HP = 825.7 HP HP/50 IN = 3.51

NB#11 605 FT / 410 HRS (DN BOTTOM), AVE ROP = 14.7 FT/HR.