



GEMDAS LOGGING REPORT NO. 23

COMPANY AMOCO AUST WELL TILANA No 1
 DATE 2/10/85 TIME 05:00
 DEPTH 2563m (8409') LAST REPORT DEPTH 8099 (2468.6m)
 RIG OPERATIONS DRILL 12 1/4" HOLE
 REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
 SIGNED

DRILLING REPORT

Bit No.: NB#13 Type: SMITH F3 Size: 12 1/4" Jets: 14, 14, 14 (ONE PARTIAL)
BLOCKED, EQUIVALENT TO A 5)
 On Bit: Footage: 438FT Hours: 31 ROP: 14.1 FT/HR WOB: 40-45 RPM: 85-90
 Pump Press: 2900 SPM: 96 Torque: 2-6.0 TBR: 159261 CP I: \$ 2150 CP B: \$ 1303.

HYDRAULICS REPORT

Mud Density In: 9.6 Mud Density Out: 9.65 ECD: 9.67 PV/YP: 22/12
 Gels: _____ Salinity: _____ PPM Cl Solids: _____ %
 Hole Volume: 1319 Annular Volume: 1091 Tubing Volume: 140 Displaced Volume: 89
 Carbide Lag—Calculated Lag: (1899) STMS 23BBL Flowrate: 49
 Drillpipe Annular Vel (Max. Dia. Sec.): 36.8 FT/MIN Drillpipe Annular Vel (Open Hole): 96 FT/MIN
 Drill Collar Annular Vel (Open Hole): 139.5 FT/MIN Critical Vel: 294.5 FT/MIN
 Pressure Loss System: 881psi Pressure Loss Bit: 1042 (2071psi) Pressure Loss: 53 (69)
 Nozzel Vel: 348.6 (491) FT/SEC Jet Impact Force: 848 (1197) LBS HHP: 298 (592) HP

PRESSURE PARAMETERS

Drilling Exponent: 1.3 - 1.9 1.75 AVG. Flowline Temperature: 44°C
 Shale Density: - Shale Factor: 2-6
 Background Gas: 1-2u Max. Formation Gas: 71u @ 2521.5m Trip Gas: NIL @
(0.02-0.04%) NIL (8273')
 Other Gas: _____
 Fill: NIL Tight Hole: NIL
 Cavings: Est %: MINOR Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.3 pps Min. Estimated Fracture Pressure (Open Hole): 13 pps EMW
 Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ 5106
 Max. Estimated Pore Pressure (Open Hole): 8.7 pps @ T.D. Estimated Fracture Pressure at TD: 14.9 pps

Comments: DRILL 12 1/4" HOLE. NEGATIVE FLOW CHECKS AT 2499m
(8199') AND AT 2523m (8277'). TORQUE INCREASES AFTER
A CONNECTION AT 2542m (8339') AND CONTINUED TO BE
HIGH AND ERRATIC. ROP SLOWLY DECREASING. - POSSIBLE
LOCKED CONE.

PUMP PRESSURES TOO HIGH FOR FLOW RATES
INDICATING A PARTIAL BLOCKED NOZZEL. NOZZEL AREA REDUCED
TO THE EQUIVALENT OF A 5.
SURFACE HP = 829. HP AT BIT / SQ IN = 2.5 (5.02)