

GEMDAS LOGGING REPORT NO. 5

COMPANY AMOCO AUST. WELL TILANA-1
 DATE 14th SEPT' 85 TIME 0500hrs
 DEPTH 1661.7m (5452ft) LAST REPORT DEPTH 1587.9m (5210')
 RIG OPERATIONS _____
 REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 4 Type: SMITH F2 Size: 12 1/4" Jets: 11, 3 x 13.
 On Bit: Footage: 1212 ft. Hours: 26.0 ROP: 46 ft/hr avg WOB: 15-42 RPM: 90-113
 Pump Press: 2660 psi SPM: 142 Torque: 2.2 kft-lb TBR: 167,300 CP I: \$ 140 CP B: \$ 378

HYDRAULICS REPORT

Mud Density In: 9.1 ppg Mud Density Out: 9.1 ppg ECD: 9.34 PV/YP: 8/32
 Gels: 15/25 Salinity: 12,000 PPM Cl Solids: 7 %
 Hole Volume: 1057 bbl Annular Volume: 904 bbl Tubing Volume: 89 bbl Displaced Volume: 64 bbl
 Carbide Lag—Calculated Lag: +340 stks. Flowrate: 697 gpm
 Drillpipe Annular Vel (Max. Dia. Sec.): 52 ft/min Drillpipe Annular Vel (Open Hole): 137 ft/min
 Drill Collar Annular Vel (Open Hole): 286 ft/min Critical Vel: 526 ft/min
 Pressure Loss System: 908 psi Pressure Loss Bit: 1752 psi % Pressure Loss: 66
 Nozzel Vel: 464 ft/sec Jet Impact Force: 1525 lbs HHP: 713 hp

PRESSURE PARAMETERS

Drilling Exponent: 1.46 @ 44 ft/hr Flowline Temperature: 48°C
 Shale Density: - Shale Factor: -
 Background Gas: 3-5 u Max. Formation Gas: 13 u @ 5249' Trip Gas: 31 u @ 5452'
 Other Gas: -
 Fill: - Tight Hole: 3560 - 5452' (1085 - 1661.7m)
 Cavings: Est %: 20-30% Average Size: 2x3x4 mm³

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.54 / 10.64 ppg Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg @ csj shoe
 Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ csj shoe
 Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19.7 ppg

Comments: DRILL TO 1647.9m (5407') DRILL BREAK TO MAX. 300 FT/HR
CIRCULATE RETURNS @ 1661.7m (5452')
POOH FOR WIPER TRIP TO SHOE. 50klb drag 3560-5452'
RIH & CIRCULATE RETURNS, REAM ~ 4222 - 5452'
POOH w/ NB 4. UP TO 30klb drag on first 18 stds (3750-
5452')

RIG UP & RUN E-LOGS.

CORRECTED HOLE = 1096 bbl

" ANNULUS = 943 bbl.