



# GEMDAS LOGGING REPORT NO. 46

COMPANY AMOCO AUST. WELL TILAND No1  
 DATE 25/10/85 TIME 05:00  
 DEPTH 3746.6m (12292') LAST REPORT DEPTH 3707m (12162')  
 RIG OPERATIONS RUNNING IN HOLE WITH NO CORE BIT TO CUT CORE No3  
 REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (OPERATOR)

## DRILLING REPORT

Bit No.: RRB#8 Type: D.B CD 502 Size: 8 1/2" Jets: 1" TFA. (3x21 EQUIV)  
 On Bit: Footage: — Hours: — ROP: — WOB: — RPM: —  
 Pump Press: — SPM: — Torque: — TBR: — CP I: \$ — CP B: \$ —

## HYDRAULICS REPORT

Mud Density In: 9.8 Mud Density Out: 9.9 ECD: 10.0 PV/YP: 19/16  
 Gels: — Salinity: — PPM Cl Solids: — %  
 Hole Volume: 1747 BBL Annular Volume: 1538 BBL Tubing Volume: 209 BBL Displaced Volume: 117 BBL  
 Carbide Lag—Calculated Lag: 111 BBL (934 STBS) Flowrate: 220 GPM  
 Drillpipe Annular Vel (Max. Dia. Sec.): 16.5 FT/MIN Drillpipe Annular Vel (Open Hole): 43 FT/MIN  
 Drill Collar Annular Vel (Open Hole): 62.7 FT/MIN Critical Vel: 432 FT/MIN  
 Pressure Loss System: 338 Pressure Loss Bit: 43 PSI % Pressure Loss: 11  
 Nozzel Vel: 69.6 FT/SEC Jet Impact Force: 78.4 LBS HHP: 5.5

## PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 1.8 AUG 1.75 Flowline Temperature: 57.5 °C  
 Shale Density: — Shale Factor: —  
 Background Gas: 5u (0.1%) Max. Formation Gas: 10u (0.2%) @ 3747m Trip Gas: — @ —  
 Other Gas: NIL  
 Fill: NIL Tight Hole: NONE ON TRIP OUT.  
 Cavings: Est %: UP TO 30% Average Size: SMALL BLOCKY.

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.0 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 13 ppg  
 Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE  
 Max. Estimated Pore Pressure (Open Hole): 9.4 @ 3570m Estimated Fracture Pressure at TD: 13.5 (S/S)

Comments: DRILL TO 3742m ROP INCREASES TO 8.8m/HR (29 FT/HR)  
DRILL TO 3744m - NEGATIVE FLOW CHECK DRILL TO 3746.6m  
ROP STILL 7.8m/HR (25 FT/HR) CIRCULATE BOTTOMS UP  
SAMPLE SANDSTONE, MAX GAS 10u (0.2%) POOH TO CUT  
CORE No3. NO TIGHT HOLE ON TRIP OUT.  
LITHOLOGIE AT T.D. = SANDSTONE.  
SURFACE HP = 53.9 HP AT BIT / SQ IN = 0.1  
CORRECTED HOLE VOLUME = 1974 BBL CORRECTED ANN. VOL = 1649 BBL  
NB#19 52m (171') IN 14.6 HRS AT 3.6 M/HR 11.7 FT/HR.