



# GEMDAS LOGGING REPORT NO. 25

COMPANY AMOCO AUST. WELL TILANA No 1  
 DATE 4/10/85. TIME 04:00  
 DEPTH 2717m (8914') LAST REPORT DEPTH 2610.7m (8565')  
 RIG OPERATIONS DRILL 12 1/4" HOLES.  
 REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)

## DRILLING REPORT

Bit No.: NB#14 Type: SMITH F2CE Size: 12 1/4 Jets: ~~3x13~~ 3x13, 1x8  
 On Bit: Footage: 495 Hours: 27.7 ROP: 17.8 FT/HR (5.4 m/HR) MOB: 35-43 RPM: 90  
 Pump Press: 2860 SPM: 120 Torque: 3-5 TBR: 144350 CP I: \$ 812 CP B: \$ 1050

## HYDRAULICS REPORT

Mud Density In: 9.3 Mud Density Out: 9.3<sup>r</sup> ECD: 9.4 PV/YP: 21/13  
 Gels: \_\_\_\_\_ Salinity: \_\_\_\_\_ PPM Cl Solids: \_\_\_\_\_ %  
 Hole Volume: 1445 BBL Annular Volume: 1203 BBL Tubing Volume: 149 BBL Displaced Volume: 92  
 Carbide Lag—Calculated Lag: 6115th 72 BBL. Flowrate: 611 GPM.  
 Drillpipe Annular Vel (Max. Dia. Sec.): 45.6 FT/MIN Drillpipe Annular Vel (Open Hole): 119.7 FT/MIN  
 Drill Collar Annular Vel (Open Hole): 174 FT/MIN Critical Vel: 313 FT/MIN  
 Pressure Loss System: 1216 Pressure Loss Bit: 1664 % Pressure Loss: 58%  
 Nozzel Vel: 447.6 FT/SEC. Jet Impact Force: 1316.5 LBS HHP: 593

## PRESSURE PARAMETERS

Drilling Exponent: 1.0 - 1.95 AVE ~ 1.60 Flowline Temperature: 50.0  
 Shale Density: \_\_\_\_\_ Shale Factor: \_\_\_\_\_  
 Background Gas: 1-2u (601-001) Formation Gas: 9u @ 2692m Trip Gas: \_\_\_\_\_ @ \_\_\_\_\_  
 Other Gas: NIL (0.18%) (8931')  
 Fill: NIL Tight Hole: NIL  
 Cavings: Est %: MINOR, GENERAL COAL Average Size: SMALL BLOCKY

## ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.23 ppG Min. Estimated Fracture Pressure (Open Hole): 13 ppG  
 Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ 5100'  
 Max. Estimated Pore Pressure (Open Hole): 8.7 @ SMO.T.D. Estimated Fracture Pressure at TD: 13(55)-147 (145)

Comments: DRILL TO 2615m FLOW CHECK. C.R AT 2623.5m.  
DRILL TO 2708m (8884) FLOW CHECK. DRILL TO 2713m  
(8900) CIRCULATE FOR 30MIN RUN SURVEY (CDU 2°)  
DRILL AHEAD. FROM 2715m (8907') INCREASED PUMP  
RR. AND DECREASED PUMP FLOW INDICATED CENTRAL  
NOZZEL BLOCKED. NOZZEL UNPLUGGED AT 2721m (8927')  
SURFACE HP=1019HP HP/SG IN AT BIT=5.03  
 LITHOLOGY: SILTSTONE, WITH MINOR SANDSTONE AND  
CLAYSTONE.