EXLOG

GEMDAS LOGGING REPORT NO. 21

COMPANY __AMOCO AUST__   WELL __TILANA No1__

DATE __30/9/85__   TIME __05:00__

DEPTH __7971' (2429.5m)__   LAST REPORT DEPTH __7627' (2324.3m)__

RIG OPERATIONS __POOH. FOR BIT CHANGE.__

REPORT BY __D. NEW__   REPORT RECEIVED BY __J. GUILORY__ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: __NB#12__   Type: __SMITH F3__ Size: __12'/4__   Jets: __3 x 15__

On Bit: Footage: __798FT__ Hours: __43.1 HRS__ ROP: __16.9 (LAST 24 HRS)__ WOB: __40-44__ RPM: __65-85__

Pump Press: __2390__ SPM: __120__ Torque: __0.8 - 7.6__ TBR: __211375__ CP I: $ __4500__ CP B: $ __962.__

HYDRAULICS REPORT

Mud Density In: __9.2__   Mud Density Out: __9.2+__   ECD: __9.24__   PV/YP: __17/7__

Gels: _____ Salinity: _____ PPM Cl   Solids: _____ %

Hole Volume: __1255 BBL__ Annular Volume: __1038 BBL__ Tubing Volume: __132 BBL__ Displaced Volume: __85 BBL__

Carbide Lag—Calculated Lag: __179 STKS (21 BBL)__   Flowrate: __610 GPM.__

Drillpipe Annular Vel (Max. Dia. Sec.): __45.8 FT/MIN__   Drillpipe Annular Vel (Open Hole): __119.5 FT/MIN__

Drill Collar Annular Vel (Open Hole): __173 FT/MIN__   Critical Vel: __211.3 FT/MIN__

Pressure Loss System: __1216 PSI__   Pressure Loss Bit: __1174 PSI__   % Pressure Loss: __49%__

Nozzel Vel: __378 FT/SEC__   Jet Impact Force: __1098 LBS__   HHP: __4178.__

PRESSURE PARAMETERS

Drilling Exponent: __1.1 - 2.1__   Flowline Temperature: __50.0°C.__

Shale Density: __—__   Shale Factor: __—__

Background Gas: __1 - 5cc.__ Max. Formation Gas: __413cc__ @ __7703' 2348m.__ Trip Gas: __2cc__ @ __7627' (2324m)__

Other Gas: __NIL__

Fill: __NIL__   Tight Hole: __NIL__

Cavings: Est %: __MINOR__   Average Size: __SMALL__

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: __3.6 ppg.__   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): __8.7__ @ __T.D__   Estimated Fracture Pressure at TD: _____

Comments: __NO PROBLEMS ON WIPER TRIP AT 7627' (2324m) (DEV=1/2)__
__DRILL AHEAD TO 7658' TORQUE INCREASES AND BECOMES VERY__
__ERRATIC AFTER A CONNECTION. TORQUE CONTINUED TO INCREASE__
__AND BECOME MORE ERRATIC FROM THIS DEPTH UNTILL T.D__

__LITHOLOGY: SILTSTONE WITH INTERBEDDED SANDSTONE__
__AND COAL.__
__SURFACE HP = 850.6 HP   BIT HP/DIA = 3.54 HP/SQ IN.__