

EXLOG
SMGEMDAS LOGGING REPORT NO. 1

COMPANY AMOCO AUSTRALIA WELL TILANA - 1
 DATE 10 SEPT '85 TIME 0500HRS
 DEPTH 465.7 m (1528') LAST REPORT DEPTH -
 RIG OPERATIONS REPAIR KELLY SWIVEL
 REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB3 Type: SMITH SDT Size: 12 1/4" Jets: 15, 15, 18
 On Bit: Footage: 56 Hours: 1.4 ROP: 60-200 ft/hr. WOB: 1-8 klb RPM: 80-100
 Pump Press: 2420 psi SPM: 162 Torque: 1-2 kft-lb TBR: 7100 CP I: \$ 311 CP B: \$ 246

HYDRAULICS REPORT

Mud Density In: 8.6 PPG Mud Density Out: 8.7 PPG ECD: 9.1 PPG PV/YF: 2/3
 Gels: SEAWATER Salinity: - PPM CI Solids: - %
 Hole Volume: 485 bbl Annular Volume: 428 bbl Tubing Volume: 19 bbl Displaced Volume: 38 bbl
 Carbide Lag—Calculated Lag: In gauge / 3624 stks. Flowrate: 833 gal/min.
 Drillpipe Annular Vel (Max. Dia. Sec.): 62 ft/min Drillpipe Annular Vel (Open Hole): 71 ft/min
 Drill Collar Annular Vel (Open Hole): 237 ft/min Critical Vel: 117 ft/min.
 Pressure Loss System: 828 psi Pressure Loss Bit: 1592 psi % Pressure Loss: 80
 Nozzel Vel: 450 ft/sec. Jet Impact Force: 1708 lbs. HHP: 774 hp.

PRESSURE PARAMETERS

Drilling Exponent: 0.85 @ 60 ft/hr. Flowline Temperature: 16°C / 60°F.
 Shale Density: - Shale Factor: -
 Background Gas: - Max. Formation Gas: - @ - Trip Gas: - @ -
 Other Gas: -
 Fill: - Tight Hole: -
 Cavings: Est %: <10% Average Size: 2 x 3 x 3 mm³

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 5.8 / 14.6 PPG Min. Estimated Fracture Pressure (Open Hole): 15.3 PPG @ CSS. SHOE
 Estimated Pore Pressure: 8.7 PPG Min. Estimated Pore Pressure (Open Hole): 8.7 PPG @ 1356'
 Max. Estimated Pore Pressure (Open Hole): 8.7 PPG @ TD Estimated Fracture Pressure at TD: 15.3 PPG

Comments: SPUD TILANA-1 2030HRS 5-9-85 W/ DIAMOND M EPOCH.
NB1 HTC DGJ W/ 36" H-O. DRILL 104.3 - 208.8m (343-685'). SET
30" CASING AT 203.3m (667').
RRB1 HTC DGJ 26". DRILL 208.8 - 416.0m (685-1365'). SET 20"
CASING AT 413.3m (1356'). INSTAL BOP'S & RISER.
NB2 SMITH SDS 17 1/2". DRILL 20" SHOE AND NEW FM TO
418.2m (1372'). PERFORM FIT (LEAK-OFF AT 15.3 PPG EMW). POOH.
RIH NB3. DRILL AHEAD AT CONTROLLED ROP THROUGH
CALCARENITE. PULL BACK TO SHOE TO REPAIR SWIVEL.