LITHOLOGY SUMMARY

3737.5-3762M (12262-12342FT) CLST WITH THIN SST BED FROM 3758-59.5M(12329-12334FT)

CLST: BRN GY - OL GY, OCC LT OL GY, DARKER VARIETY IS V CARB AS STREAKS AND FLAKES, FIRM AND SUBFIS: LIGHTER VARIETY IS TR CARB, BECOMING SILTY AND GRDG TO SLTST IN PT, SFT AND V DISPERSIVE.

SST: OVER INTERVAL 3758-59.5M (12,329-12,334FT) WH- V LT GY - CLR, F-OCC V C GR, DOM M GR, A-SA, MOD SRT, 10-15% CLR SILICA CMT, FIRM, VIS POROSITY FAIR (10-15%) OVERALL.

RARE DOLOMITE: OVER SDY INTERVAL LT BRN-MED BRN, MICROXLN.

RARE COAL: BLK, METALLIC LUSTRE, CONCH FRAC, HARD AND BRITTLE, BITUMINOUS - ANTHRACITIC RANK.

GAS SUMMARY

BACKGROUND GAS: 14 UNITS (0.28%)
COMPOSITION C1 = 1743, C2 = 225, C3 = 85, IC4 = TR, NC4 = 8

MAXIMUM GAS: DEPTH 3758M (12329FT), 53 UNITS (1.05%)
COMPOSITION C1 = 4673, C2 = 808, C3 = 314, IC4 = 32, NC4 = 64, C5 = 6

TRIP GAS: DEPTH 3747M (12293FT), 14 UNITS (0.28%)
COMPOSITION C1 = 1717, C2 = 195, C3 = 49, IC4 = 4, NC4 = 6

CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 3757.5M (12328FT), 8.7 M/HR (28.5 FT/HR)
MINIMUM ROP: DEPTH 3753.5M (12315FT), 1.13M/HR (3.7 FT/HR)
AVERAGE ROP: 2.4 M/HR (7.9 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 0.83 - 1.18 DXC AVERAGE: 1.05
TEMP OUT: 38 DEG C TEMP IN: 37 DEG C
MUD WT. IN: 15.0 PPG MUD WT. OUT: 15.1 PPG ECD: 15.5 PPG
EST PORE PRESSURE: 14-15 PPG EMW EST FRACTURE PRESSURE: 20 PPG EMW

COMMENTS

BIT CHANGE 3747M.

PALYNOLOGY

3708-17 M : PROBABLY T.LONGUS : PROBABLY MAASTRICHTIAN : SAMPLE VERY DIFFICULT TO PROCESS DUE TO LIGNOSULPHANATE CONTAMINATION. RARE T. CONFESSUS WITHOUT L. BALMEI SUGGESTS LONGUS ASSIGNMENT : NON-MARINE : FULLY MATURE

REGARDS,
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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