LITHOLOGY SUMMARY

4032 - 4072.8M (13229-13363 FT)

PRED SLST AND CLST WITH INTERBEDDED SST AND RARE COALS.
CLST: V CALC AND DISPERSIVE, PROB MOD FIRM, MICMIC, RARE TO TR CARB FLAKES AND STREAKS.

SLST: BLKY TO SUB-FISS, MICMIC CARB AS STREAKS AND MICRO-LAMINS, FIRM TO MOD FIRM, IN PT GRDS TO SUPER FN SST.

SST: 4046-4048.5M, 4065-4072M UP FN WITH RARE LOW MED GRN, PRED SILICA CMT WITH 5-10% DOLO/SIDERITIC CMT, 1 TO 3% LT GY/GRN RK FRAGS, FIRM TO HD. VIS POROSITY 5-15%.

COAL?: T 4035M BITUM TO SUB ANTHR GRD.

GAS SUMMARY

BACKGROUND GAS: 22 UNITS (0.44%)
COMPOSITION C1 = 2362, C2 = 393, C3 = 126, IC4 = 16, NC4 = 18
MAXIMUM GAS: DEPTH 4047M (13278FT), 136 UNITS (2.72%)
COMPOSITION C1 = 16616, C2 = 2368, C3 = 700, IC4 =124 NC4 = 93, C5 = 15
TRIP GAS: NO TRIP
CONNECTION GAS: 4045M (13271FT), 10 UNITS (0.20%)
4063M (13380FT), 10 UNITS (0.20%)

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 4071.5M (13271FT), 7.6M/HR (25 FT/HR)
MINIMUM ROP: DEPTH 4064M (13333FT), 2.7 M/HR (8.9FT)
AVERAGE ROP: 4.9 M/HR (16.2 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 0.69 - 0.9 DXC AVERAGE: 0.80
TEMP OUT: 44 DEG C TEMP IN: 42 DEG C
MUD WT. IN: 15.3 PPG MUD WT. OUT: 15.3 PPG ECD: 15.7 PPG
EST PORE PRESSURE: 14.5 - 15.2 PPG EMW
EST FRACTURE PRESSURE: 20.5 PPG EMW

COMMENTS

FURTHER ANALYSIS OF THE CUTTINGS OVER WHICH VOLCANICS WERE RECORDED INDICATES THAT THE 'VOLCANICS' MAYBE AN ARTEFACT OF THE TURBODRILLING TECHNIQUE. FINAL LOGS AND SIDEWALL CORES SHOULD CONFIRM THIS.

PALYNOLOGY

3924-33 M : UNRELIABLE : VERY SCARCE FOSSILS SEEN ARE AT PEAK MATURITY, CONSISTENT WITH CAVING FROM ABOUT 3600 M, AND SIGNIFICANTLY LIGHTER THAN FOSSILS FROM THE OVERLYING SAMPLE AT 3789-98M. NOTHING OLDER THAN THE T. LILLEI ZONE WAS SEEN.
THESE RESULTS ARE CONSISTENT WITH MY NORTH SEA EXPERIENCE WITH TURBO-DRILLING, WHERE THE NATIVE ASSEMBLAGE IS CARBONISED AND THE ONLY FOSSILS SEEN ARE CAVED.

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