LITHOLOGY SUMMARY

3534 - 3554M (11594-11660FT)

VOLCANICS WITH INTERBEDDED COAL AND SLTST/SHALE

VOLCANICS: TUFFACEOUS, VF-F GR, ALTERED, CLAYEY, MOD TO V CALC, VARYING FRI-HARD.

COAL: BLK, HARD BCMG SOFTER AND DK BRN BLK BELOW 3581M.

SHALE: BCMG SLTST: CARBONAC, SLTY IN PT, V SFT-HD.

3554 - 3597M (11660-11801FT)

PREDOM SST, SHALE AND COAL WITH MINOR INTERBEDDED VOLCANICS ABOVE 3574M AND BELOW 3581M.

SST: F GR, W SRTD, SILICA CMT BCMG MORE CLY MTX BELOW 3570M, V PR VIS POR (4-6 PCT)

SHALE: CARBONAC, SFT-FIRM.
COAL: AS ABOVE.

GAS SUMMARY

BACKGROUND GAS: 25 UNITS (0.5%)
COMPOSITION C1-C4 WITH TRACE C5
MAXIMUM GAS: DEPTH 3553 M (11,657 FT), 160 UNITS (3.2%)
TRIP GAS: NO TRIP
CONNECTION GAS: 3542 M. - 16 UNITS, 3551 M. - 18 UNITS, 3561 M. - 44 UNITS 3571 M. - 30 UNITS

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 3553M (11,657 FT), 13 M/HR (43FT/HR)
MINIMUM ROP: DEPTH 3579.3M (11,743 FT), 1.2M/HR (4 FT/HR)
AVERAGE ROP: 3.6 M/HR (11.3 FT/HR)

PRESSURE PARAMETERS

DXC,RANGE: 1.4 - 2.1 DXC AVERAGE 1.8
SHALE DENSITY, RANGE: ---
SHALE FACTOR, RANGE: ----
TEMP OUT: 71.5 DEG C TEMP IN: 70.1 DEG C
MUD WT.IN: 9.6 PPG MUD WT.OUT:9.64 PPG ECD:9.74 PPG
EST PORE PRESSURE: 8.7 - 9.4 PPG EMW.

COMMENTS:

MAX. PORE PRESSURE ESTIMATED TO BE 9.4 PPG AT 3570 M.

(PLEASE NOTE : THE FOLLOWING IS THE SHOW SUMMARY FOR OCTOBER 21, 1985 WHICH WAS NOT INCLUDED IN YESTERDAY'S DAILY DRILLING REPORT)

SHOW SUMMARY - OCTOBER 21, 1985

3472 - 3473M (11391-11394FT)

MODERATELY BRIGHT YEL FLUOR IN OFF-WH TUFFS, F-GRN, SFT, WEATHERED, WITH ASSOC. COAL, BLK, HD, BLKY FRACT (COAL BLEEDING GAS BUBBLES IN WET SAMPLE). EXTREMELY TENUOUS, NON-STREAMING YEL, DULL FLUOR. OF VAGUE CUT AFTER 30 MINS. OF EXPOSURE TO SOLVENT. TOTAL GAS RECORDED, MAX. 56 UNITS: C1=5171 PPM: C2=780: C3=501:

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