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DAILY GEOLOGICAL REPORT

LITHOLOGY SUMMARY

3222 - 3240M (10571'-10630') INTIMATELY INTBD IGN INTRUS AND SLTST WITH OCC SH AND COAL BDS.

IGN: MOD DK GRN-BK, C XTLN, HD, IN PT MOD TO V CALC.

SLTST(DOM AT 3229-40M): DK BRN, FIRM TO HD, VAR CARB, ARG, NONCALC.

SH(SOME AT 3229-40M):M TO DK BRN, SFT, SL SLTY, CARB, NONCALC.

COAL(3228-29M): BK, HD, SUBCONCH TO IRREG FRAC, IN PT DK BRN, SFTER, LOWER GRD.

3240 - 3288M (10630'-10787') VOLC RX INTIMATELY INTBD WITH SLTST, COAL AND SH AS ABOVE, AND RARE SST. VOLC DOM AT 3245-58M AND 3285-88M. COAL COMMON AT 3243-46M, 3257-58M AND 3273-76M.

VOLC: TUFFS, PL GRN, BUFF, CRM, FIRM TO SFT, PROB WEATHERED, ABUN C GR QTZ AND OTHER MIN GR, GLASS SHARDS, VAR CALC.

SST: F GR, MOD SRT, WH, FIRM TO SL FRI, CLY AND SIL CMT, SL TUFFACEOUS, IN PT CALC.

GAS SUMMARY

BACKGROUND GAS: 12 UNITS (0.24%)
COMPOSITION: C1-C5: 927, 93, 80, 12, AND 2 PPM, RESPECTIVELY.

MAXIMUM GAS: DEPTH 3258M (10,689FT), 52 UNITS (1.04%)
COMPOSITION: C1-C5: 6180, 624, 466, 55, 105 AND 47 PPM., RESPECTIVELY.

TRIP GAS: NONE

CONNECTION GAS: NONE

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 3227.5M (10,589 FT), 11.9 M/HR (39 FT/HR)
MINIMUM ROP: DEPTH 3262 M (10,703 FT), 1.5 M/HR (5 FT/HR)
AVERAGE ROP: 3.4 M/HR (11.2 FT/HR)

PRESSURE PARAMETERS