450505

LITHOLOGY SUMMARY

3020.5 - 3055M (9910-10023FT) DOMINANTLY CLST WITH MINOR SST AND MINOR THIN COALS.

CLST: LT BRN GY - BRN GY, OCC BRN BLK, MOD CARB AS FLECKS OR THIN DISCONTINUOUS LAMINAE, MOD MICMICACEOUS, NON CALC BCMG TR DOLIC BELOW 3045M, FRI-FIRM, BLKY-SUBFIS, DISPERSIVE.

SST: I/B WITH CLST: WH-OCC PK GY, EQUALLY AS LSE GRS AND AGGS, VF-F GR, SA-SR, MOD WELL SRTD, UP TO 20-25% WITH CLY MTRX AND CALC CMT
FRI-FIRM, FAIR VIS POROSITY (10-15%).

SST: WH- V LT GY - OCC PK GY, SUPERFINE - M GRN DOM FIRM GR, COMMON LSE GRNS, A-SR, MOD SRTD, UP TO 10% WH CLY MTX, FAIR - GD VIS POROSITY (10-20%).

3055 - 3099M (9941-10,167FT) DOMINANTLY SST WITH MINOR CLST AND THIN COAL.

SST: CONSISTS OF THIN BEDS OF SST (I) AND THICKER SLOWER DRILLING INTERVALS OF SST (II) TO INTERBEDS OF BOTH

(I) SST: CLR-WH, VF - F GR, DOM F GR, AS MOSTLY LSE GRS WITH MINOR AGGS, DOM A-SA, WELL SRTD, TR WH CLY MTX, TR SIL, V GD VIS POROSITY (20-25%)

(II) SST: WH-V PL ORNG, SUPERFINE - V F GR, OCC F-M GR, MOSTLY AS AGGS AND FINELY I/B WITH CLST: A-SA, WELL SRTD, 10-15% CLY MTX, UP TO 5% DOLIC CMT AND UP TO 5% SIL CMT, PR-FAIR VIS POROSITY (5-15%).

GAS SUMMARY

BACKGROUND GAS: 15 - 30 UNITS (0.3 - 0.6%)
COMPOSITION C1 - C4

MAXIMUM GAS: DEPTH 3057M (10029FT), 295 UNITS (5.9%)
COMPOSITION C1 = 35916 (39.1%) C2 = 5740 (12.6%)
C3 = 2781 (6.1%) IC4= 359 (0.8%)
NC4 = 600PPM (1.3%) C5 = 20 (0.64%)

Wh = 20.92
Bh = 11.08
Ch = 0.35

TRIP GAS: NIL
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 3075M (1088FT), 34 M/HR (111 FT/HR)
MINIMUM ROP: DEPTH 3025M (9924FT), 1.3 M-HR (4.2 FT/HR)
AVERAGE ROP: 7.2 M/HR (23.6 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 1.24 - 1.86 DXC AVERAGE 1.6
TEMP OUT: 60 DEG C TEMP IN: 55 DEG C
MUD WT. IN: 10.2+ PPG MUD WT. OUT: 10.2 PPG ECD: 10.7 PPG
EST PORE PRESSURE 9.6-9.8 PPG EMW EST FRACTURE PRESSURE: 18.0 PPG EMW

COMMENTS

(1) A SANDSTONE BETWEEN 3055.5M AND 3058M PRODUCED 295U OF GAS (C1-C5) WITH NO FLUORESCENCE, HOWEVER BELOW 3070M NO INCREASE IN GAS WAS ASSOCIATED WITH THE SANDSTONES INDICATING A PROBABLE GAS/WATER CONTACT. BETWEEN 3058M AND 3070M. PORE PRESSURE NOW ESTIMATED AT 9.6-9.8 PPG. MUD WT. 10.2 PPG.
[illegible] CONTAMINATION EXTREMELY HEAVY 3070-93M. CUT