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LITHOLOGY SUMMARY

450515

3297.0 - 3315.8M (10818-10879FT)

PREDOM CLST WITH THIN COALS AND INTERBED TO INTER-LAMIN SST

CLST: RDSH/BRN, BLKY TO SUB-FIS, MICRO-LAM OF CARB MAT, FIRM.

CLST: MED BRN TO GY/BRN, BLKY FRAC, MICMIC, IN PART GRADES TO SLST, ORGAN DEBRIS, FIRM.

COAL: BLK, FIRM TO HD, VIT-LUST, BLKY WITH TR SUB-FIS FRAC, TR CONCH FRAC BIT GRADE.

SST: LT GY TO MED BRN, F GR, M TO W SRT, SA-SR, SILICA CMT, TR DOL AND CLAY CMT. V RARE LT BRN TO YEL BRN STAIN. FAIR POROSITY 7-12%.

3315.8 - 3327.8M (10879-10918FT)

SST WITH INTERBED COAL AND CLST
SST: MED GY TO LT BRN GY, V F TO F GR, M TO W SRT, SR, SILICEOUS CMT WITH TR DOL AND CLAY CMTS. FIRM TO HD. TR RDSH/BRN TO BLK STAIN, FAIR POROSITY 7-10%.

COAL: 3316.5-3317.3M 3319.0-3319.5M
BLK, VIT LUSTRE, BLKY TO SPLINTERY FRAC, SUB-CONCH FRAC SURFACE, FIRM TO HD, SILTY IN PART. MICRO-LAM, TR PYRITE.

CLST: MED BRN TO DK BRN, BLKY, TR SUB-FIS, V CARB, MICMIC, FIRM TO HD.

SST: CLR TO SEMI TRANSPARENT, MED GRN, M TO W SRT, SR, SIL CMT, TR DOL CMT. TR MED BRN TO DK BRN-BLK STAIN. FIRM TO HD, FAIR TO POOR POROSITY 5-10%.

3327.7 - 3332.0M (10918-10932FT)

SLST: DK TO BRN BLK, SIL,V CARB, GRADES TO SUPER-FN SST. BLKY FRAC.

3332.0 - 3340.0M (10932-10958FT)

SST: CLR TO CRMY WHT, MED GRN, M TO W SRT, SR, SIL CMT, TR DOL AND CLAY CMTS.

SST: LT BRN TO YEL BRN, F GR, W SRT, SR, SIL CMT, TR DOL-CMT. TR MOD BRN TO DK RD/BRN STAIN.

3340.0 - 3376.0M (10958.5-11077FT)

CLST WITH INTERBED SST AND COAL
CLST: MED GY BRN, BLKY TO SUB-FIS TO FIS, FIRM TO HD GRADING TO SLST, CARB TO V CARB, SIL.

SST: MD BRN/GY TO MED GY, V F GR, M TO W SRT, SR, DOL CMT, SIL CMT, FIRM TO SOFT, V ARG, ORG DEBRIS. RARE PATCHY DK RDSH BRN STAIN. VIS POROSITY POOR - 5-10%.

COAL: DK GY/BLK, BLKY WITH SUB-FIS FRAC, MICRO-LAM, GRADING TO SLST COAL. 3353.8-3354.2M

3376.0 - 3411.0M (11077-11192FT)

SST WITH INTERBED CLST AND COAL.
SST: MED GY TO DK GY, M GR, W SRT, HD, DOL CMT, SIL CMT, TR CLAY, SOFT TO FIRM, V ARG. V RARE TO TR RD BRN STAIN.

SST: CLR TO CRMY WHT, MED-GRN, M TO W SRT, SR, SILIC CMT TR DOL CMT.

CLST: MED BRN/GY, BLKY TO SUB-FIS, FIRM, GRDS TO SLST. MOD CARB, ARG, MICMIC, FIRM.

COAL: 3383.3-3385.5M, 3390.7-3390.9M, BLK,FIRM TO