

SHALE: M TO DK GRY-BRN GRDNG TO BLK, MOD SFT, SUBFIS, NON CALC, EARTHY AND ORG RICH GRDNG TO LOW GRD COAL. VAR SLTY AND SNDY, MICA, DISSEM PY AND BLEBS, OCC BD W/ F GR SST.

SLTST: M RD-TAN, V ARG, HD, V W IND, SL DOL, BRIT, OCC SNDY.

COAL: V THIN STRNGRS, BLK, BRIT, CONCH FRAC, GRDS TO V ORG RICH SHALES IN PART. TR PINPOINT DEAD OIL STAIN (?) PYROBIT (?) ON OCC SST FRAG AND ON LARGER GR FACES THROUGHOUT INTERVAL. M YEL TO GOLD FLUOR, PL TRANSP BL-WH CUT FLUOR W/ A DULL YEL TO ORNG DES RNG FLUOR.

#### 2060-2176M

SST: M TO V C GR, CLR TO MLKY W/ OCC ROSE, UNCONSOL QTZ, SUBRND-SUBANG GR AND SUB AND EUHED XTLS. OCC FRAG W/ INTERLOCK RELICT CRM-PNK FELD AND WH CLY, QTZ OVRGRWTHS. OCC GRS FRSTED AND PITTED. UP TO 30% VIS POR. MOD ABUN M TO DK BRN OIL STN(?) PYROBIT(?).

M TO V C GR LSE SND MOST ABUN BETWEEN 2072-85M, 2102-07M, 2111-17M, 2133-40M.

SST: WH TO CRM-TAN, V F TO F GR, SUBRND W/ OCC SUBANG, W SRT, W CMT W/ WH CLY, MOD FIRM BUT EASILY FRI, OCC GRDS TO SLTST, ABUN THIN BANDS OF GRY-BRN ORG MAT, ABUN CLR MICA, OCC PY. POR GEN 10% OR LESS BUT OCC UP TO 20% IN CLEANER FRAG. OCC M TO DK BRN OIL STN ASSOC W/ ORG MAT.

V F TO F GR W CMT SST MOST ABUN BETWEEN 2087-90M, 2093-2102M, 2115-29M, 2135-43M, 2166-68M.

COAL: BIT TO SUBBIT, BLK, HD, BRIT, CONCH FRAC AND BLKY, STRIATED, OCC BECOMES V ARG, ABUN ASSOC PY, DK MICA AND V THIN F GR SST.

SHALE: DK GRY-BRN, OCC M GRY-BRN AND BRN-BLK, MOD SFT, SUB FIS, V ORG RICH OCC GRDNG TO ARG COAL. V THINLY INTERBD F GR SST, VAR SLTY AND SNDY OCC GRDNG TO V ARG SST, NON CALC, ABUN MICA (MUSC/BI), F DISSEM PY. DKER SH HDER AND HIGHLY INDURATED.

ORGANIC MAT AND ASSOC OIL STN GIVE PL TRANSP BL-WH CUT FLUOR W/ A DULL M YEL DES RNG FLUOR THROUGHOUT SECTION.

#### 2123-2147M

GOOD M TO DK BRN OIL STN, MOD BRT YEL FLUOR, LT STRAW CUT W/ A MOD BRT TRANSP YEL-WH STRMG CUT FLUOR, BRT BL-WH DES RNG FLUOR.

BED THICKNESS HIGHLY VARIABLE IN THIS SECTION FROM IMM LAMINATIONS TO GREATER THAN 5M.

#### 2176-2212M

SST: TAN TO LT BRN, V F GR, ANG, MOD W TO MOD PR SRT, MOD SFT AND FRI, CLR AND FRSTED QTZ AND OCC FELD IN A NONCALC CLY MTX, ABUN BLK MICROCARB WISPS AND CLYST LAM, TR MICA AND PY. 10-20% VIS POR. LT BRN, EVEN TO V MINOR SPOTTY, RESID OIL STN, DULL YEL-BRN FLUOR OF CLR CRUSH CUT W/ M LT YEL FLUOR AND CLR DES RNG OF BRT YEL FLUOR.