



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: River Bend 4
 Well Id:
 Location: Sec. 35-24S 32W Finney County, Kansas
 License Number: 15-055-22492-00-00 Region: WILDCAT
 Spud Date: 8-7-2018 Drilling Completed: 8-11-18
 Surface Coordinates: 180' FWL & 612' FNL
 SW NW NW NW
 Bottom Hole
 Coordinates:
 Ground Elevation (ft): 2825' K.B. Elevation (ft): 2839'
 Logged Interval (ft): 3800' To: 4950' Total Depth (ft): 4950'
 Formation: Morrow, Chester
 Type of Drilling Fluid: Natural Chemical

Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MERIT ENERGY
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 Geo: Martin Lange

GEOLOGIST

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 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 620-600-0777

ROCK TYPES

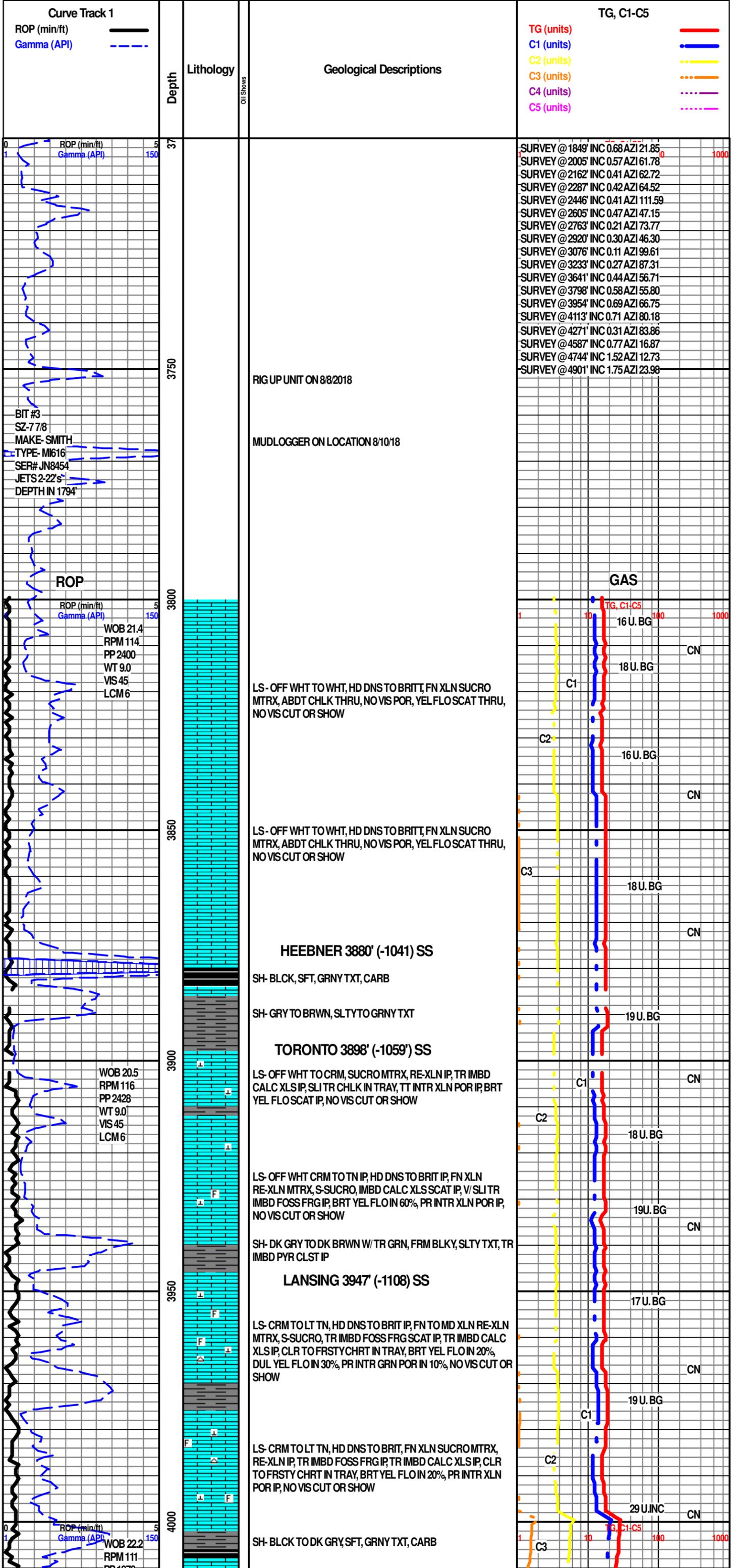
Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sltysl
Coal	Salt	Dol	Lms
Congl	Shale	Dtd	
Dol	Shcol	Gry sh	

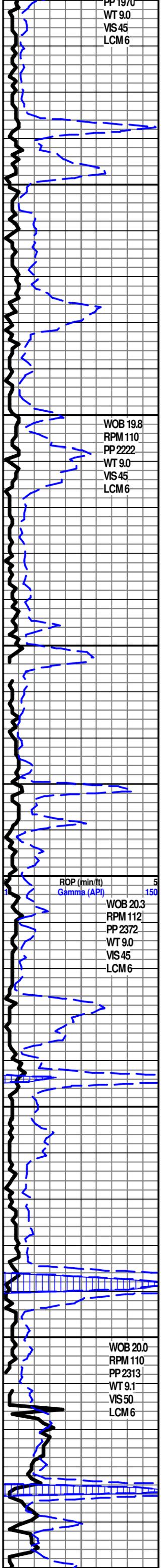
ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
Carb	Sand	Strom	
Chtdk	Silty	Fuss	TEXTURE
Chtlt		Oomold	Boundst
Dol	FOSSIL	STRINGER	Chalky
Feldspar	Algae	Anhy	Cryxln
Ferrpel	Amph	Arg	Earthy
Ferr	Belm	Bent	Finexln
Glau	Bioclst	Coal	Grainst
Gyp	Brach	Dol	Lithogr
Hvymin	Bryozoa	Gyp	Microxln
Kaol	Cephal	Ls	Mudst
Marl	Coral	Mrst	Packst
Minxl	Crin	Sltstrg	Wackest
Nodule	Echin	Ssstrg	
Phos	Fish	Carbsh	
Pyr	Foram		

OTHER SYMBOLS

POROSITY TYPE	SORTING	Angular	INTERVALS
Earthy	Well	OIL SHOWS	Core
Fenest	Moderate	Even	Dst
Fracture	Poor	Spotted	Dst
Inter	ROUNDING	Ques	EVENTS
Moldic	Rounded	Dead	Rft
Organic	Subrnd	Gas show	Sidewall
Pinpoint	Subang		
Vuggy			





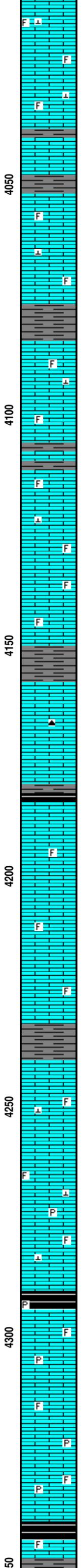
PP 1970
WT 9.0
VIS 45
LCM 6

WOB 19.8
RPM 110
PP 2222
WT 9.0
VIS 45
LCM 6

ROP (min/ft)
Gamma (API)

WOB 20.3
RPM 112
PP 2372
WT 9.0
VIS 45
LCM 6

WOB 20.0
RPM 110
PP 2313
WT 9.1
VIS 50
LCM 6



LS- CRM TN TO BFF, HD DNS, FN TO MD RE-XLN, S-SUCRO, SLI TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, BRT YEL FLO IN 35%, DUL YEL FLO IN 40%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO BFF, HD DNS TO BRIT IP, FN TO MD XLN RE-XLN MTRX, S-SUCRO, SUB-CHLKY IP, TR IMBD FOSS FRGS, SLI TR SFT WHT CHLK IP, BRT YEL MIN FLO IN 50%, PR INTER-XLN POR IP, NO VIS CUT OR SHOW

IOLA 4100' (-1261')

LS- CRM LT TN TO TN, HD DNS TO BRIT IP, FN TO MD XLN RE-XLN MTRX, S-SUCRO IP, IMBD FOSS FRG IP, TR IMBD & FREE CALC XLS, TR DK GRY SH IN TRAY, BRT YEL FLO IN 15%, PR INTR-XLN POR IP, NO VIS CUT OR SHOW

LS- CRM LT TN TOTN, HD TO BRIT, FN TO MD XLN RE-XLN MTRX, S-SUCRO, IMBD & FREE FOSS FRGS SCAT THRU, SLI TR SFT WHT CHLK IP, BRT YEL MIN FLO IN 30%, DUL YEL MIN FLO IN 50%, PR MICRO PP POR IP, NO VIS CUT OR SHOW

SH- LT GRY TO GRY, FRM TO SFT BLKY, SLTY TXT

LS- CRM LT TN TO BFF, HD DNS TO BRIT IP, F XLN, SUCRO MTRX, RE-XLN IP, TR S-CHLKY, SLI TR DK BRWN CHRT IN TRAY, BRT YEL FLO IN 25%, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- GRN TO BLCK, SFT BLKY TO SPLNTY, SLTY TXT, SLI TR IMBD DISS PYR IP

LS- WHT TO OFF WHT CRM LT TN, HD DNS TO BRIT IP, MD-XLN, SUCRO MTRX, RE-XLN IP, TR IMBD CALC-XLS SCAT IP, TR IMBD FOSS FRGS SCAT IP, SLI TR SFT WHT CHLK SCAT IP, BRT YEL MIN FLO IN 50%, V/PR MICRO PP POR IP, NO VIS CUT OR SHOW

SH- LT GRY TO DK GRY, FRM TO SFT BLKY, SLTY TXT

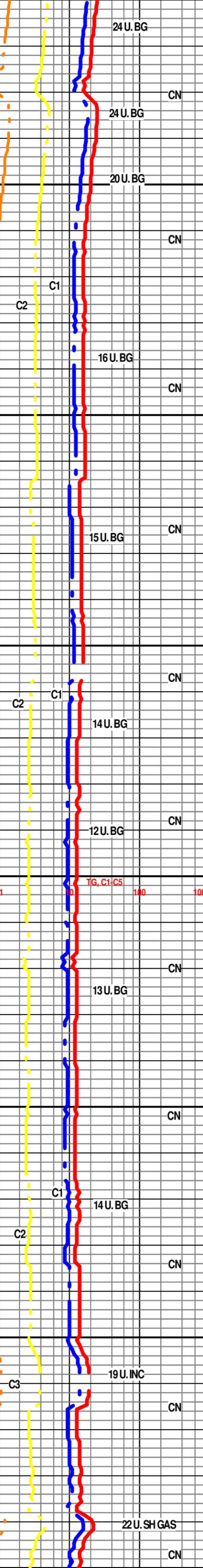
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN, SUCRO MTRX, IMBD CALC XLS IP, TR IMBD FOSS FRG IP, V/ SLI TR FN DISS PYR IP, BRT YEL MIN FLO IN 50%, V/PR MICRO PP POR SCAT IP, NO VIS CUT OR SHOW

STARK 4292' (-1453') SS

SH- BLCK TO DK GRY, SFT BLKY, SLTYTXT, IMBD DISS PYR & CLSTRS

LS- OFF WHT TO CRM LT TN TO DRK TN IP, HD DNS TO TR BRIT, FN-XLN, RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS IP, TR DISS PYR IP, TR SFT WHT CHLK SCAT IP, BRIT YEL MIN FLO IN 40%, V/PR INTER-XLN POR IP, NO VIS CUT OR SHOW

HUSHPUCKNEY 4340' (-1501') SS



24 U. BG

CN

24 U. BG

20 U. BG

CN

16 U. BG

CN

15 U. BG

CN

14 U. BG

CN

12 U. BG

CN

13 U. BG

CN

14 U. BG

CN

19 U. INC

CN

22 U. SH GAS

CN

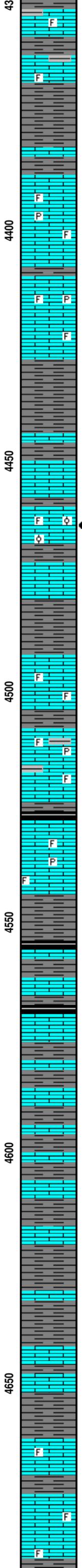
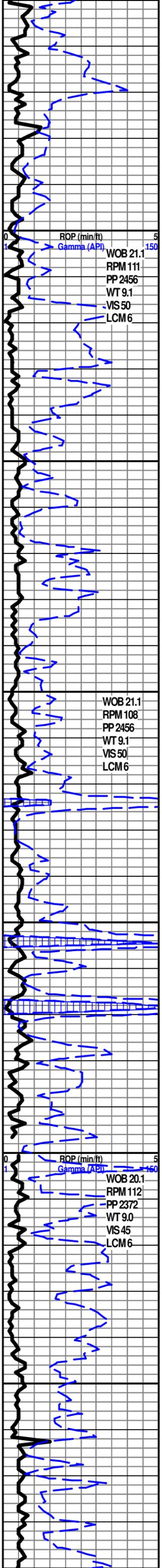
TG, C1-C5

C2
C1

C2
C1

C2
C1

C3



LS- CRM LT TN TO DK TN IP, HD DNS TO BRIT IP, FN XLN, SUCRO MTRX, TR RE-XLN IP, IMBD FOSS FRG SCAT IP, TR IMBD GRY SH IP, SLI TR SFT WHT CHLK IN TRAY, BRT YEL FLO IN 15%, DUL YEL FLO IN 20%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

SH- LT GY TODK GRY, FRM TO SFT BLKY, SLTYTXT

LS- OFF WHT TO CRM LT TN TO LT GRY IP, HD DNS TO BRIT IP, SUCRO MTRX, RE-XLN IP, SLI TR FREE FOSS FRGS SCAT IP, IMBD FOSS FRG SCAT IP, SLI TR IMBD DISS PYR IP, TR IMBD GRY SH SCAT IP, BRT YEL MIN FLO IN 30% PR INTER-XLN POR, NO VIS CUT OR SHOW

SH- GRY TO DK GRY, FRM TO SFT BLKY, SMTH TO SLTY TXT

MARMATON 4449' (-1610') SS

4463'-4467' LS- CRM LT TN TO DK TN (DUE TO OIL STN IN 60%), HD DNS TO BRIT, FN TO MD XLN, RE-XLN MTRX, TR IMBD FOSS FRG IP, OOL SCAT THRU, TR OOLMLD IP, BRT YEL GLD FLO IN 60%, PR TO FR OOLMLD POR SCAT IP, PR TO FR INTR XLN POR IP, GD FLSH CUT THRU, GD TO EXEL MLKY BLU SLW STRM THRU, GD OIL ODOR

SH- LT GRY DK GRY TO BRWN IP, FRM BLKY, SMTH TXT

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN, SUCRO MTRX, TR SCAT IMBD FOSS FRG IP, SLI TR IMBD GRY SH IP, GRY SH W/ IMBD DISS PYR IP SCAT IN TRAY, BRT YEL FLO IN 20%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

PAWNEE 4528' (-1689') SS

LS- OFF WHT TO CRM LT TN TO LT GRY MOTT, HD DNS TO BRIT IP, FN XLN, SUCRO MTRX, TR IMBD FOSS FRGS IP, SLI TR DISS PYR IP, TR IMBD GRY TO DRK GRY SH THRU, DUL YEL MIN FLO IN 20%, V/PR INTER-XLN POR IP, NO VIS CUT OR SHOW

SH- BLCK, SFT, CARB, GRNYTXT

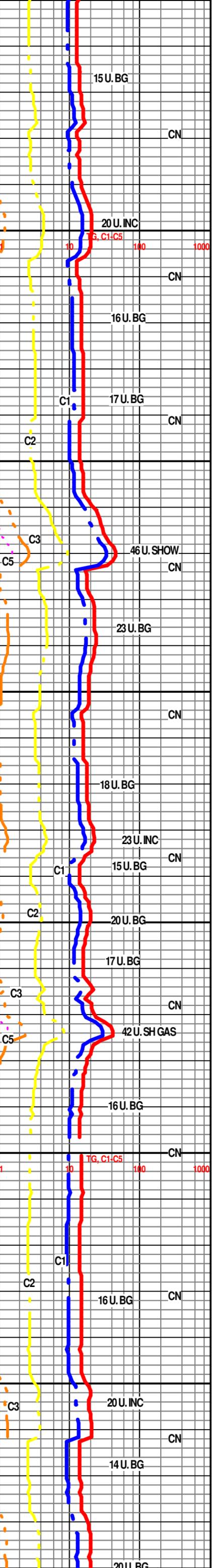
CHEROKEE 4570' (-1731') SS

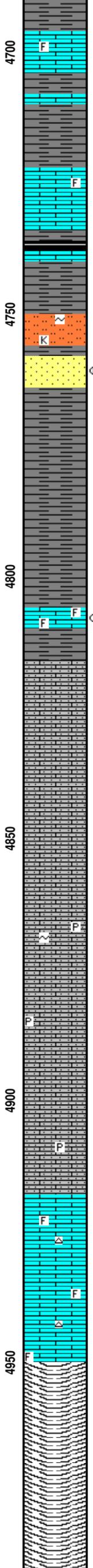
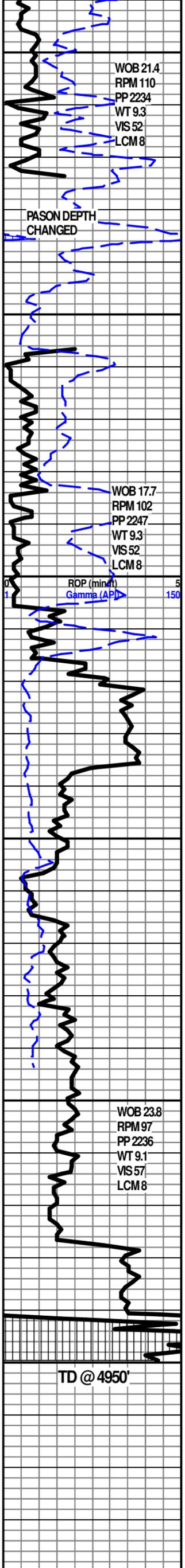
LS- WHT OFF WHT TO CRM TO TN, HD DNS TO BRIT IP, FN XLN, RE-XLN MTRX, SLI TR IMBD FOSS FRGS SCAT IP, TR IMBD DISS PYR & PYR CLSTERS SCAT IP, ABDT IMBD GRY SH SCAT IP, GRY SH THRU TRAY, BRT YEL MIN FLO IN 30%, NO VIS POR NO VIS CUT OR SHOW

SH- GRY TO DK GRY, FRM BLKY, SILTY TXT, ABDT LT TN LS IN TRAY

LS- LT TN TO TN, HD TO BRIT IP, FN TO MD XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, DUL YEL FLO IN 30% PR INTR XLN POR IP, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD TO BRIT IP, FN TO MD XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, DUL YEL FLO IN 30% PR INTR XLN POR IP, NO VIS CUT OR SHOW





ATOKA 4711' (-1872) SS

MORROW 4737' (-1898') SS

SLTSTN- LT GRY TO GR, FRM BLKY, SLTY TXT, IMBD DISS BLCK SH THRU, SLI TR IMBD KOAL OR GLAUC

CHESTER 4759' (-1920') SS

4759-4764' SS- OFF WHT TO LT TN (DUE TO OIL STN IN 60%) HD TO FRI, SM CLR QRZT GRNS THRU, WELL SRT, RND TO S-RND S-ANG IP, SIL CMNT TO SLI CALC CMNT IP, TR UNCONSOLIDATED GRNS DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO 10%, FR TO GD INTER-GRN POR THRU, V/PR TO PR FLSH CUT, GD TO V/GD MLKY BLU SLW STRM THRU, WK OIL ODOR

4807-4809' LS- CRM LT TN TO TN, (DUE TO OIL STN IN 40%), HD DNS TO BRIT IP, FN XLN RE-XLN MTRX, S-SUCRO IP, ABDT FOSS FRG THRU, SLI TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 40%, PR TO FR INTR FOSS POR IN 10%, PR INTR XLN POR IP, NO VIS FLSH CUT, V/PR SLW STRM IN 30%, NO ODOR

ST. GENEVIEVE 4818' (-1979') SS

LS- OFF WHT TO CRM, HD TO BRIT, SUCRO, S-CHLKMTRX, IMBD V/FN QRTZ GRNS THRU, DUL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD TO BRIT, SUCRO, S-CHLKMTRX, IMBD FN TO V/FN QRTZ GRNS THRU, SLI TR IMBD GLAUC, SLI TR PYR IN TRAY, DUL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD TO BRIT, SUCRO, S-CHLKMTRX, IMBD FN TO V/FN QRTZ GRNS THRU, TR PYR IN TRAY, DUL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

ST. LOUIS 4917' (-2078') SS

LS- CRM TO LT TN, HD DNS TO BRIT, FN TO MD GRN SUCRO MTRX, TR FOSS FRGS IP, TR WHT FRSTY CHRT IN TRAY, SLI TR WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 4950' 2:10 PM 8/11/18

CTCH 1 HOUR

