

MBC WELL LOGGING LLC

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

Well Name: MAE 1-10 AFE 5529 MERIT ENERGY
API: 15-055-22462-01-00
Location: FINNEY COUNTY, KANSAS USA
License Number: 32446
Spud Date: 10-03-2017
Surface Coordinates: 2515'fwl- 837'fml-SEC 10-T25S-R33W
DUKE RIG 9 #5929 RODNEY GONZALES CO-MAN
Bottom Hole WEATHERFORD-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO 3808
Coordinates: 596.96fsl 52.01 fwl AZ 133.2s QUAD 46.80e
Ground Elevation (ft): 2901 K.B. Elevation (ft): 2914
Logged Interval (ft): 3850 To: 5220 Total Depth (ft): Elog 5214'
Formation: ST LOUIS
Type of Drilling Fluid: WBM AES HUGO ROSALES (620) 655-4315

Region:

Drilling Completed: 10-09-2017

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

OPERATOR

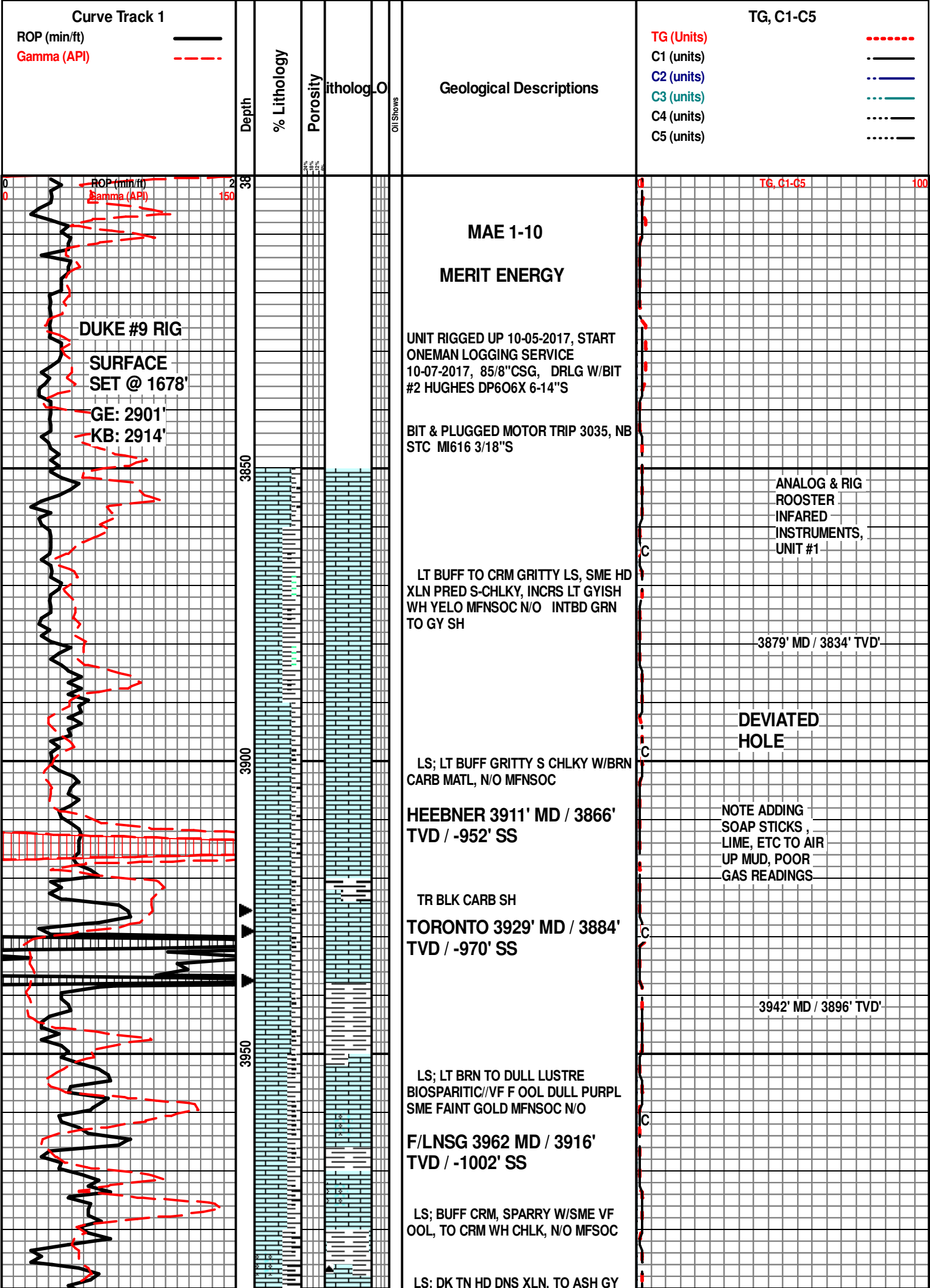
Company: MERIT ENERGY CO LLC
Address: ATTN MATTHEW GARVIN GEOLOGY
13727 NOEL RD STE 1200
DALLAS, TEXAS 75240

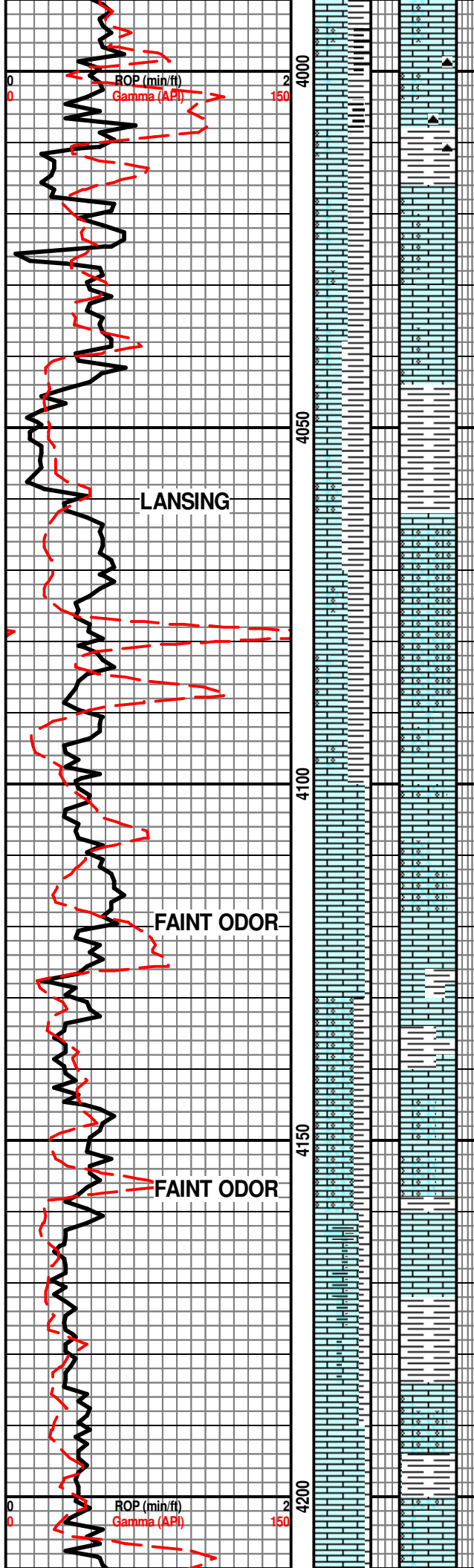
MUDLOGGER

Name: AUSTIN GARNER//TROY FOWLER
Company: MBC WELL LOGGING LLC (620) 873-2953 (620)-655-2016
Address: 21156 RD 22
MEADE, KANSAS 67864

ROCK TYPES

	Anhy		Oolitic ls -1		Sndy sh		Red sh-1
	Brec		Stgensndy-arkos		Sltst-1		Stgensndy-arkos
	Cht		New ls-1		Sltly-shale		Sndy ool ls
	Coal		Carby shale		Lmy ss-1		Sndy-ls-1
	Congl		Lmy carby sh-3		Arkosic snd		Calc shale
	Shly dolomite		Carb sh		Ss		Granitewash
	Dolo new		Gyp		Grn sh strk		Ls shly-b
	New dolomite		Sltst		Grn mott gy sh		Poor sortd ss
	Newdolo ls 2		Salt		Lmy sh-2		Snd-ls-sh
	Ls & ooids		Sndy sh--red		Shale-1		





BUFF, F XLN, CLR CHT, TR VF FOOL,
HEAVY RIM COAT, IN CHLK, N/O SME
WEAK YEL FLOR NSOC

**LANSING 4009' MD / 3962'
TVD / -1047' SS**

SH GY DK GY SME BLK, SME BLK
CHT

LS; DIRTY GY BUFF CHLKY VF OOL,
& FOSS PCES, SME LT GY SMOKEY
SHLY LS NO SHOW

SH; GY DK GY SME GRN, BLK CHT,

SH; GRN SFT BLKY SME BLK BLKY
SFT

LS; CRM TN VF OOL TR VF OOLCAS,
WEATHD APPR, TR BIOSPARTIC/VF
OOL, N/O YEL MFNSOC

LS; PALE TN BUF SPARRY SUGARTY
F & MED OOLC & OOL, SME FOSS
FRGS, ABDT CRM WH CHLK, N/O GOLD
FLOR NSOC

LS; GYISH BUFF VF XLN, SHLY IP, TN
CHT, FOSS PCES, SME FREE
F-OOIDS, FAINT ODOR, WEAK YEL
FLOR, NSOC

LS; TN MED OOLCAS, SUGARY SILI
FOSS, PCES, SME VF OOL, WEAK
ODOR, YEL MFNSOC

**LNSG F 4157' MD / 4106'
TVD / -1192' SS**

SH; GYBLK, SME GRN

LS; TN VF F OOL, IP, SME F-OOLCAS,
SPARRY, ABDT CHLK, YELGOLD
FLOR, NSOC, N/O

LNSG G 4213' MD / 4161'

TG, C1-C5

4005' MD / 3957' TVD'

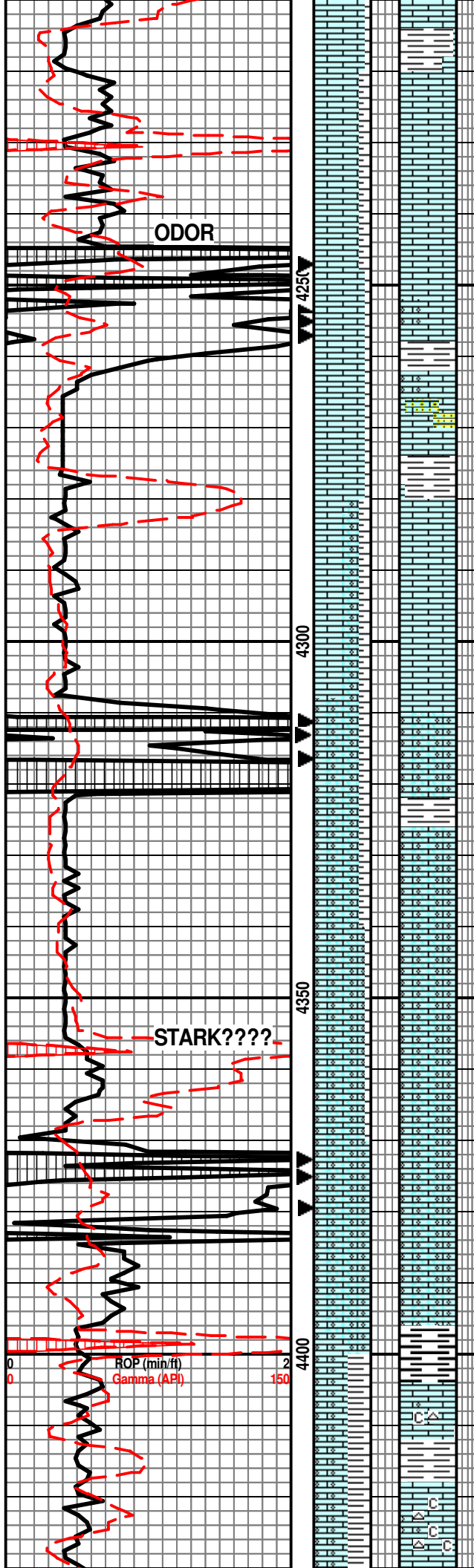
4069' MD / 4020' TVD'

4131' MD / 4080' TVD'

TG, C1-C5

100

100



TVD / -1247' SS

SH DK GY LMY , FOSS PCES

LS; CRM BUFF FOSS PCES, & PYR,
YEL FLOR, WEAK ODOR, NSOC

LS. CRM CHLKY TO BUFF HD XLN,
SILIC IP, SME FRAC XLN W/ PP DK
BRN STNG, BRITE YELGOLD FLOR,
SLOW MILKY CUT

LS; LT TN/CRM,
BIOSPARTIC/OOLCS, IMBD CRS CRIN,
SME TN VF SNDY W/FOSS, LMY CMT,
INTBD SH GY BRN DK GY, PURPL
FLOR SME DULL GOLDS, N/O NSOC

LS: LT TN BUFF SPARRY F SME MED
OOLCAS & OOL, FREE & IMBD CRIN,
ABDT CHLK, SUGARY IP, N/O WEAK
GOLD FLOR NSOC

**STARK SH 4356' MD / 4300'
TVD / -1386' SS**

LS; OPAQ TN SPARRY, CONTORTED
OOLCAS & OOLDS, VF F SME MED,
IMBD CRS SPAR XTLS, SME FOSS
DEBRIS, CRM WH CHLK, N/O SME
V/WEAK GOLD MFNSOC

**SWOPE 4367' MD / 4311'
TVD / -1397' SS**

**HERTHA LS 4400' MD / 4343'
TVD / -1429' SS**

SH- GY DRK GY T BLK, FRM BRITT,
SMTH BLKY, CARBY, SILTY IP

LS- CRM OFF WHT LT GY TO MOTT,
HRD DNS TO BRITT, V/CHLKY, TRS OF
OOL, F/TRS OF GY CHRT, YEL MIN
FLO. POSS PR OOLICASTIC POR IP,

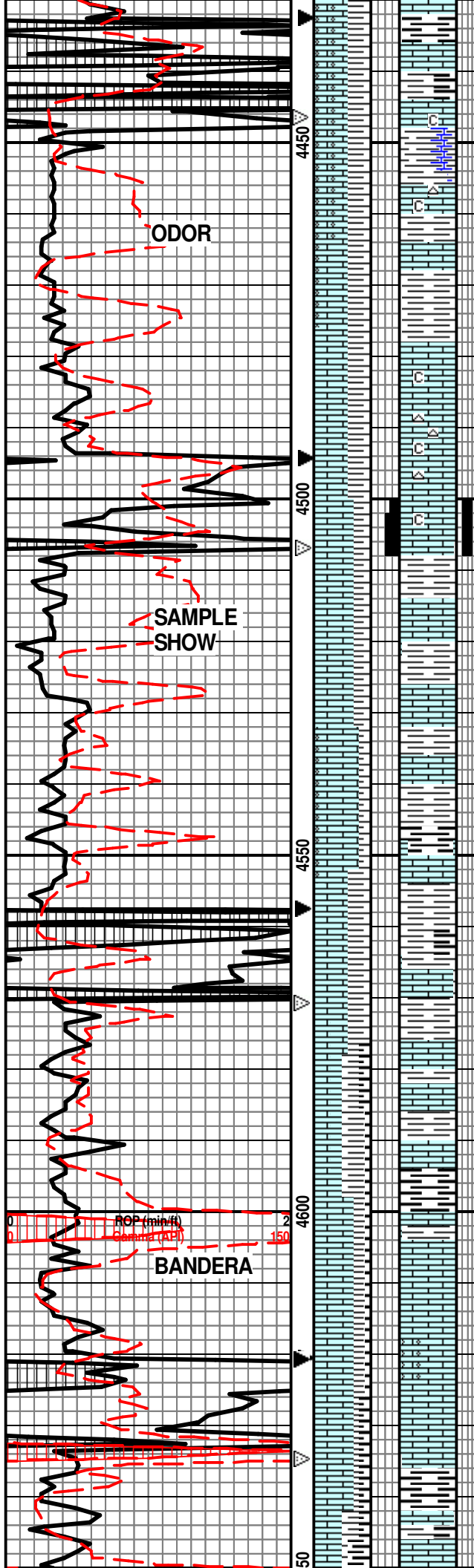
4258' MD / 4204' TVD'

4320' MD / 4265' TVD'

4381' MD / 4325' TVD

TG, C1-C5

100



NO VIS CUT OR SHOW

EXLINE 4443' MD / 4386' TVD / -1472' SS

LS- OFF WHT GY TO LT TN, HRD DNS TO BRITT, F-XLN, SUB-SUCRO TO VHLKY, TRS OF DISS GY BLK SH, TRS OF OOL POSS CARRY, TRS OF TN GY CHRT, SPOTTY DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS-CRM OFF WHT LT TN TO MOTT, HRD DNS TO BRITT, F-XLN, SUB-SUCRO TO CHLKY, TRS OF TN GY CHRT, DLL YEL MIN FLO, POSS MICRO-PP POR, NO VIS CUT OR SHOW

PLSNT SH 4494' MD / 4437' TVD / -1522' SS

- (2) PCES SPARRY F-OOLC, THIN RIMCOAT, VUGGY, OOLCAS, SME OOLDS, FOSS SHLTR, N/O, DK BRN OVER-ALL STNG, FLASH STRMG MILKY CUT, BRIT YEL SLI WH FLOR

MARMATON 4520' MD / 4462' TVD / -1548' SS

4525' @ 09:30 AM WIPER TRIP 32 STANDS / RETURN TO DRILLING @ 2:10 PM

ALTAMONT 4540' MD / 4482' TVD / -1567' SS

SH- GY DRK GY TO BLK, FRM BRITT, GRNY TO SLI SILTY, POSS CARB IP

LS- GY TN OFF WHT, HRD BRITT, F-XLN, CHLKY, IBD TO DISS BLK SH, DRK GY CHRT IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

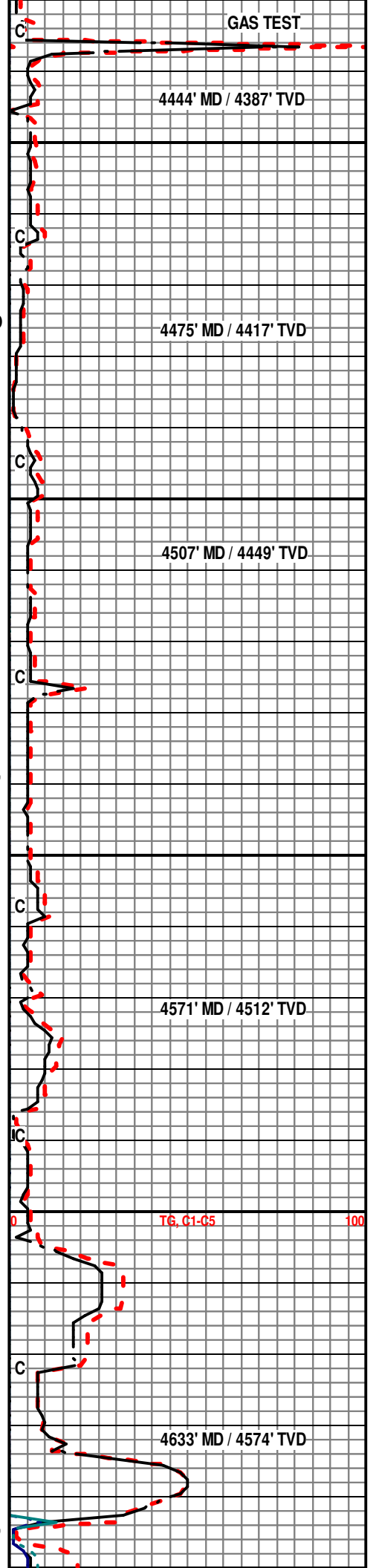
SH- BLK CARB, SPLNTY TO BLKY

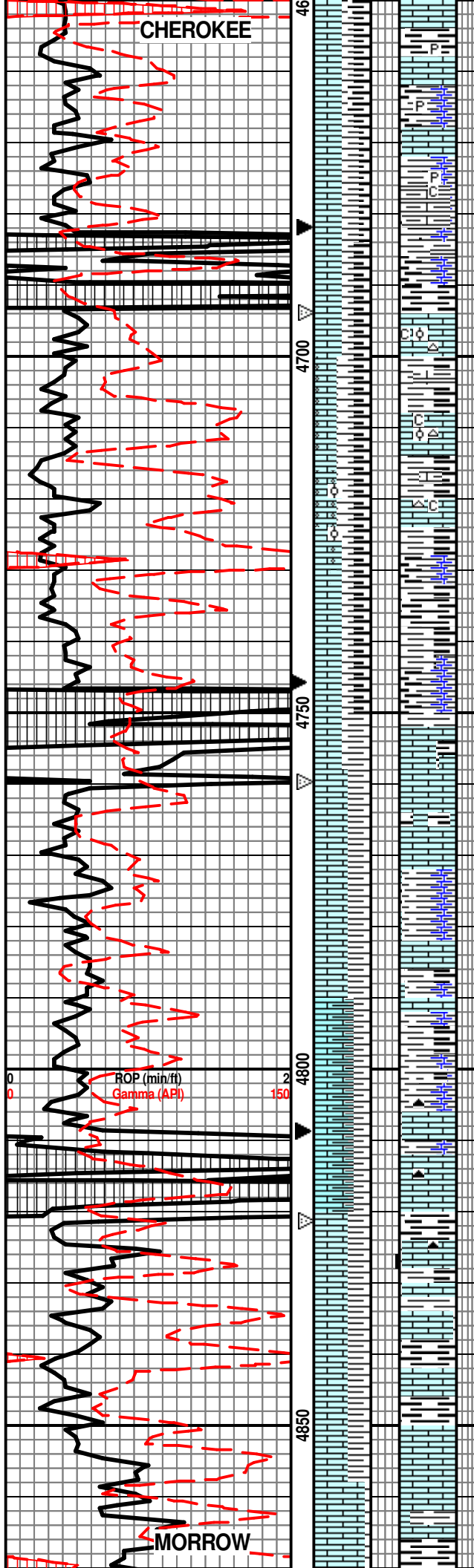
PAWNEE 4606' MD / 4547' TVD / -1633' SS

LS- CRM OFF WHT LT TN TO MOTT, HRD DNS TO BRITT, F-XLN, SUB-SUCRO TO CHLKY, SCATT OOL PR SORTD, F/TRS OF TN GY CHRT, INBD TO DISS GY BLK SH IP, DLL YEL MIN FLO, POSS PR OOLICAST POR IP, NO VIS CUT OR SHOW

LABETTE 4632' MD / 4574' TVD / -1659' SS

CHEROKEE 4652' MD / 4593' TVD / -1679' SS





SH- GY DRK GY BLK, FRM BRITT TO
SFT, SMTH BLKY TO GRNY, CARB, TRS
OF PYR NODS

CALC SH- GY DRK GY BRN TO BUFF,
FRM BRITT, CALC GRNS, CARBY IP

LS- GY LT GY OFF WHT, HRD DNS TO
BRITT, F-XLN, SUCRO TO CHLKY, TRS
OF FOSS FRAGS & OOL, F/TRS OF GY
CHRT, DLL YEL MIN FLO, DISS GY BLK
SH IP, POSS PR OOLCAST POR IP, NO
VIS CUT OR SHOW

SH; BLK DULL, BLLKY RGH TXT,
CARBY CALC INTNB LS STINGERS

ATOKA 4763' MD / 4704' TVD
/ -1790' SS

LS; ASH GY, DK BRN HD DNS XLN,
SME W/GYP BANDS, COMNGLD CRM

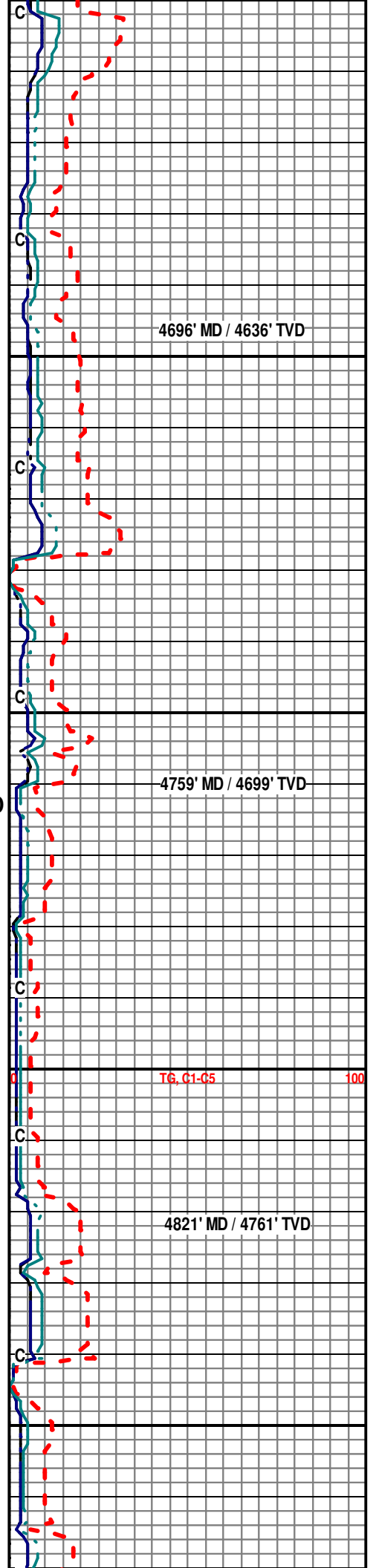
20FT SAMPLES

ATOKA SH 4813' MD / 4753'
TVD / -1839' SS

SAMPLES GROUND UP, TRASHY W/UP
HOLE CAVINGS

LS; GY TN HD DNS XLN CPMNGD
CRM HD XLN, INTRD GRN CLAY, PYR

MORROW 4863' MD / 4803'
TVD / -1889'

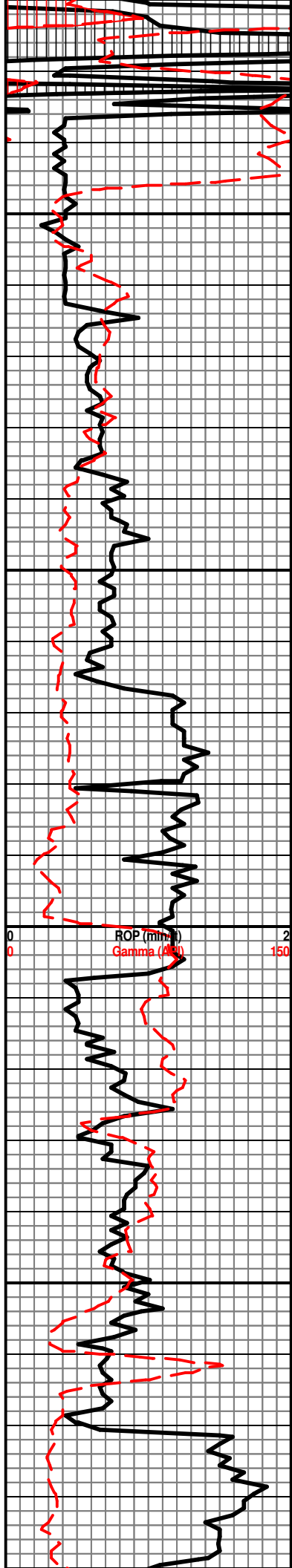


4696' MD / 4636' TVD

4759' MD / 4699' TVD

TG, C1-C5 100

4821' MD / 4761' TVD



4900

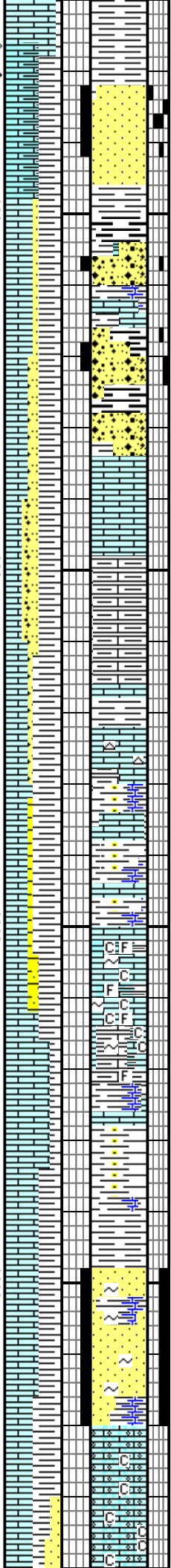
4950

5000

5050

ROP (min)
Gamma (API)

150



SH; MED GY SME GY BRNISH, SMO
SFT, SME TR GRN, SME BLK FLAKEY,
PYR,

(3PCS) SS; LT BRNOVER-ALL, VF
GR, FRI, PP TO OVR ALL STNG, SLI
SHLY, NO FREE OIL, FAINT ODOR, BLK
W/FAINT GOLD TINGE FLOR, SLOW
MILKY CUT

MOUSE GY CALC SH SME CARB MATL
TR PYRITIC COALY

SS; OPAQ, TR ROSE, TR YEL, P/SRTD
MED & CRS PROB SME PBLY,
SECONDARY QTZ, SCATT PYR, TR WH
KAO ON GRNS, FREE S-ANG QTZ, TR
MICRO GLAU, SME PYR CMTE F GR,
WEAK ODOR, FAINT GOLD FLOR,
SCATT CLSTRTS W/LT BRNSTNG,
V/SLO MILKY CUT

CHESTER LS 4934' / 4874' TVD / -1960' SS

LS; CRM SLI YEL CHLKY W/MICRO
GLAU, TO GY TN HD DNS XLN, SME
LAM GRN

SHLY LS- GY DRK GY TO LT BRN, HRD
DNS TO BRITT, VF-XLN, SLI CHLKY,
SHLY IP, NO VIS FLO, NO VIS POR, NO
VIS CUT OR SHOW

LS- CRM GY DRK GY, HRD DNS TO BRITT,
VF-XLN, SLI CHLKY, TRS OF GY CHRT, F/TRS OF
FOSS FRAGS, DLL YEL MIN FLO, NO VS POR, NO
VIS CUT OR SHOW

LS- OFF WHT LT GY TO DRK GY, HRD
BRITT, F/VF-XLN, SUB-SUCRO TO
V/CHLKY, ABNDT FOSS FRAGS IN
CHLKY MTX REWORKED ?, TRS OF
GLAUC, TRS OF GY CHRT, V/DLL
MUSTRD YEL FLO, NO VIS POR, NO
VIS CUT OR SHOW

CHESTER LS BASE 4999' MD / 4940' TVD / -2026'SS

SILTY SHLY LS- GY LT GY TO BUFF,
HRD DNS TO BRITT, F/VF-XLN TO
VF-GRN, SUCRO TO CHLKY, LOOKS
WEATHRD IP, DLL YEL MIN FLO, NO
VIS POR, NO VIS CUT OR SHOW

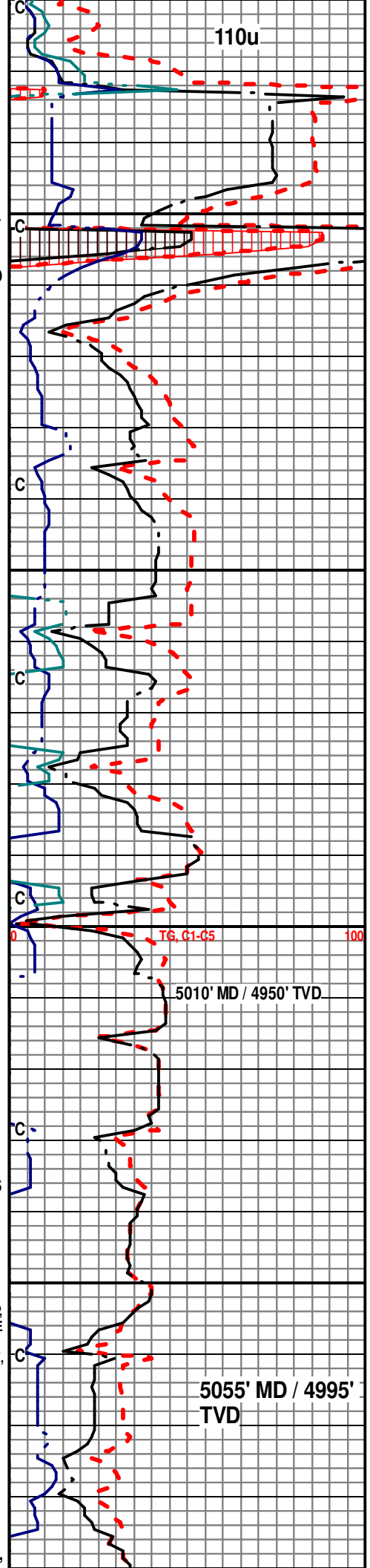
SH- GY DRK GY, FRM BRITT TO SFT,
GRNY SILTY, CALC, PYR, FOSS FRAGS

SS- CLR OPAQ TO SLI FRSTY, CRS M/F QRTZ
GRNS, TT TO SLI FRI, CONSLD TO CLUSTERS,
RND TO SUB ANG, SILC CMNT TO CALC CMNT IP,
FR SORTD, SME TN STAIN IP, TRS OF GLAUC SME
SH INCL, YEL FLO, WEAK MILKY WHITE FLUSH
TO STRM CUT, PR/FR INTER-GRN POR, FR SHOW,
FAINT GASSY ODOR

ST GEN 5065' MD / 5005' TVD / -2091' SS

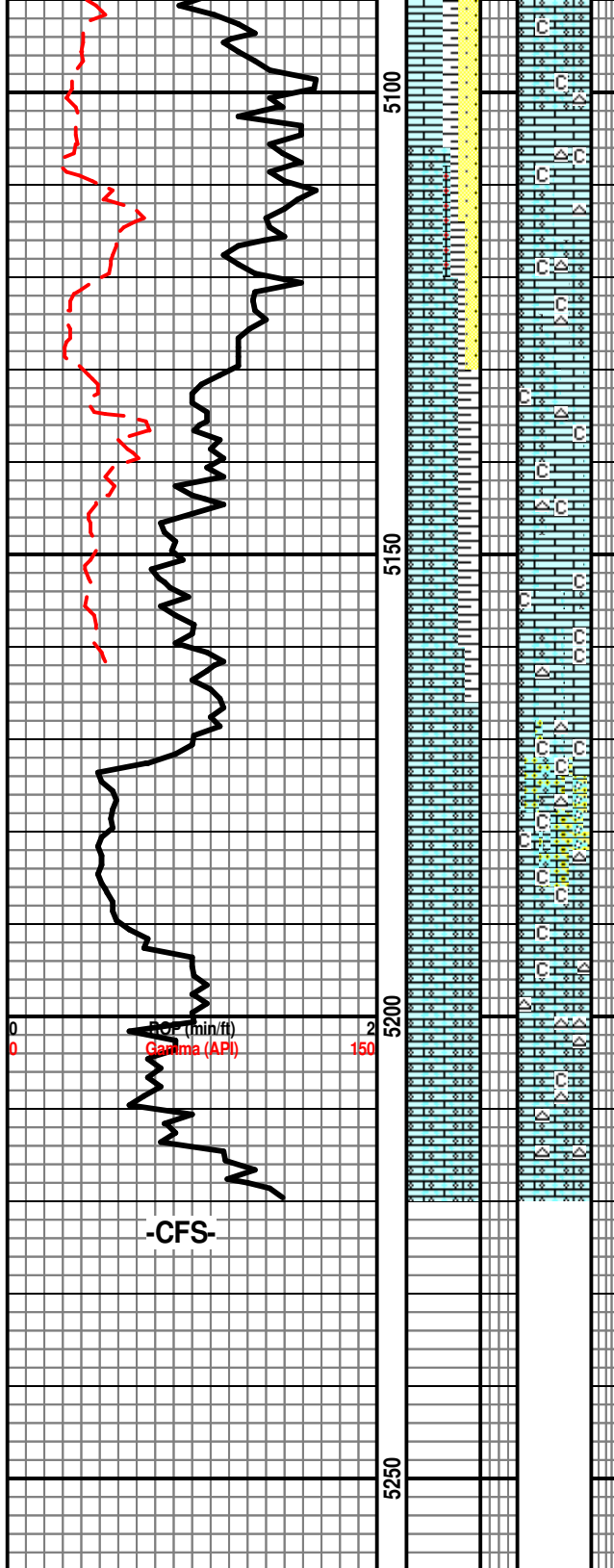
OOL LS- CRM OFF WHT LT TN TO
BUFF, HRD BRITT, M/F-OOL GRNS IN
CHLKY MTX, SUB-SUCRO TO V/CHLKY,
DLL YEL MIN FLO. PR INTER-GRN POR,

110u



5010' MD / 4950' TVD.

5055' MD / 4995'
TVD



NO VIS CUT OR SHOW, NO ODOR

OOL LS- CRM OFF WHT TO LT TN, HRD BRITT, M/F-OOL GRNS IN CHLKY MTX PR SORTD, SUB-SUCRO TO CHLKY, TRS OF TN OPAQ CHRT, DLL GLD YEL MIN FLO. POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

LS- CRM OFF WHT TO LT TN, SLIGHT PINKISH HUE, HRD BRITT, F-XLN TO CRS M-OOL GRNS, INCRS LS CONTENT 60%, SUB-SUCRO TO CHLKY, F/TRS OF TN OPAQ CHRT, TRS OF CALC-XLS, DLL GLD YEL MIN FLO. NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

LS- CRM OFF WHT LT TN TO PINK HUE, HRD BRITT, F-XLN TO VF-MICRO-OOL GRNS F/SORTD TO M CRS PR SORTD GRNS, TRS OF TN GY SEMI-OPAQ CHRT LS CONTENT 60%, SUCRO TO V/CHLKY, DLL GLD YEL MIN FLO. POSS PR INTER-GRN TO MICRO-PP POR, NO VIS CUT OR SHOW, NO ODOR

OOL LS- TN DRK BRN, HRD DNS TO BRITT, F-XLN TO SLI CRPTO-XLN, CHLKY IP, ABDNT TRS OF GY TN BRN OPAQ CHRT, TRS OF VF/MICRO-OOL IP SME SHADOW OOL, V/DLL GLD FLO TO NO VIS FLO, POSS MICRO-PP TO INTER-GRN POR, NO VIS CUT OR SHOW

RTD 5220' @ 05:45 AM 10/09/2017

ELOG: 5214'

THANK YOU FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER
TROY FOWLER

