

MBC WELL LOGGING LLC

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

Well Name: BOCK A-4 AFE 62931 MERIT ENERGY CO LLC
API: API 15-081-22186-00-00
Location: HASKELL COUNTY, KANSAS USA
License Number: 32446 Region: EUBANK
Spud Date: 2-09-2019 Drilling Completed: 2-15-2019
Surface Coordinates: 2193'fel- 2316'fni-SEC 15-T28S-R34W
DUKE RIG 9 #5929 RODNEY GONZALES CO-MAN
Bottom Hole HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'
Coordinates:
Ground Elevation (ft): 3035 K.B. Elevation (ft): 3048
Logged Interval (ft): 4000 To: 5729 Total Depth (ft): Elog
Formation: ST LOUIS
Type of Drilling Fluid: WBM/ MUDCO-JUSTIN WHITING CELL (620)-214-3630

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

OPERATOR

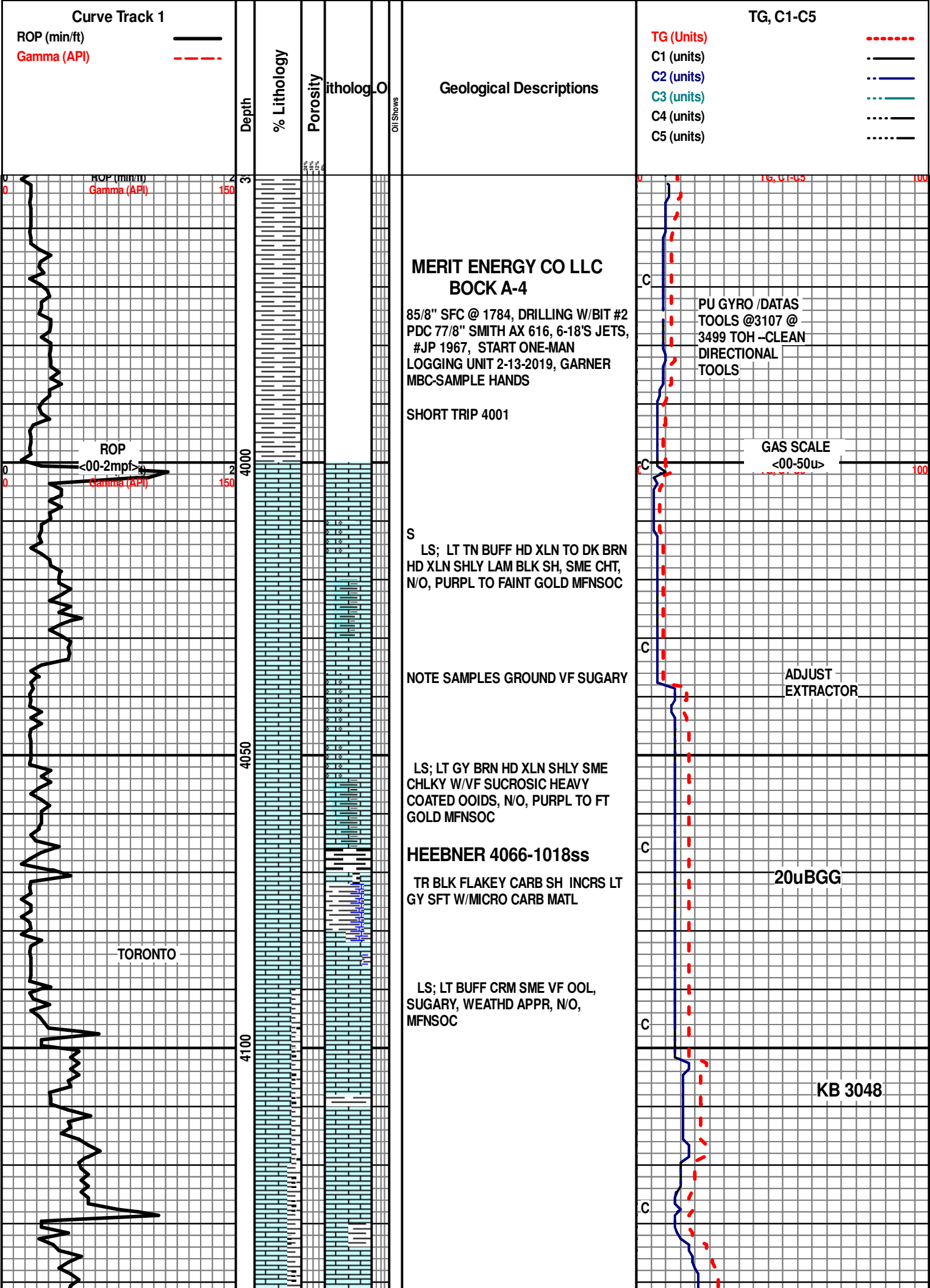
Company: MERIT ENERGY CO LLC
Address: ATTN: KRYSTIN ROBINSON GEOLOGY
13727 NOEL RD STE 1200
DALLAS, TEXAS 75240

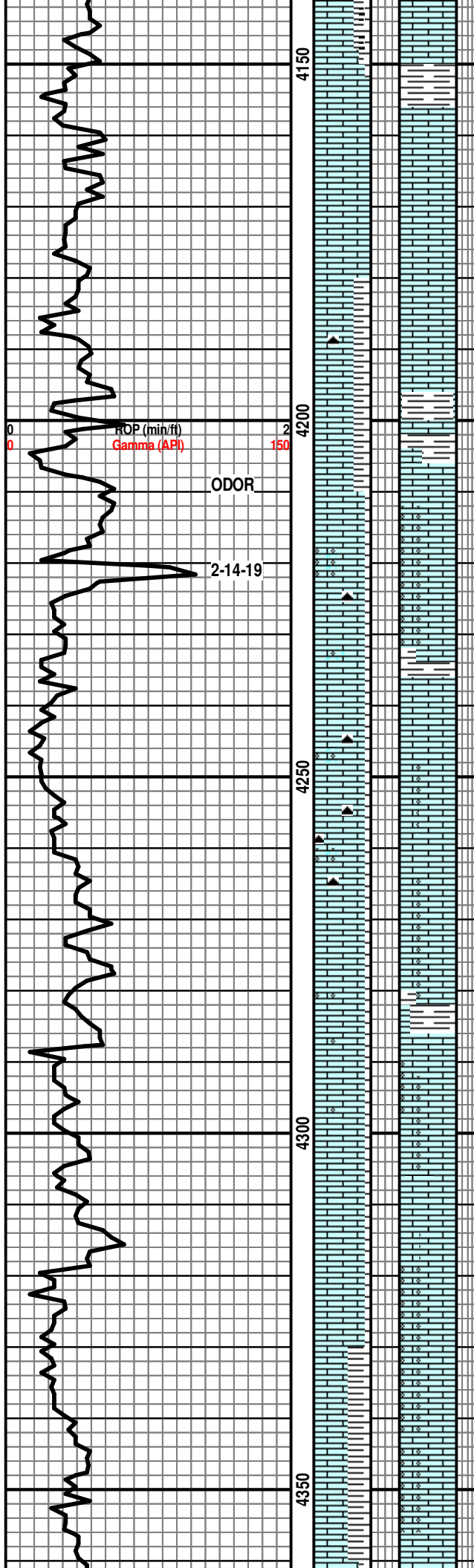
MUDLOGGER

Name: AUSTIN GARNER
Company: MBC WELL LOGGING LLC
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		





SH SLI OLIVE GY, SME GRN
SFT-PUDDING,

LANSING 4166-1118ss

LS; BUFF CVRM, VF XLN COMNLGD
W/CHLK, CHLK EDGES, SCATT VIT
CHT, V/FAINT ODOR, 90%+ PURPL
FLOR TR BRITE YEL IN CHLK, NO VIS
STNG DRY NO CUT

SH; DULL DK GY BLKY LMY, MICRO
SHLY FOSS DEBRIS

LS; PALE BUFF- BUFF WH BRTL,
WEATHD APPR, SME SHDW VF OOL,
SME SPKLD BRN SEMI VIT MICRO
FOSS CHT, N/O, PURPL SME FAINT
GOLD FLOR NSOC

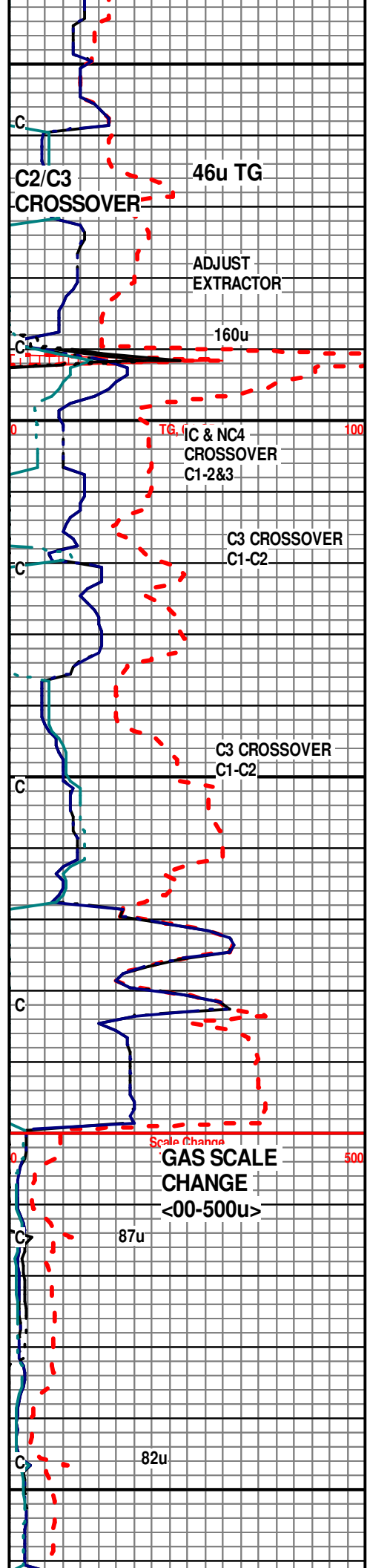
LS; LT BUFF SME GYISH BRTL,
S-CHLKY VF GRNY W/VF OOL, W/SH
CNTR, IP, ABDT CHLK, SCATT CHT,
N/O, PURPL SME DK GOLD FLOR,
NSOC

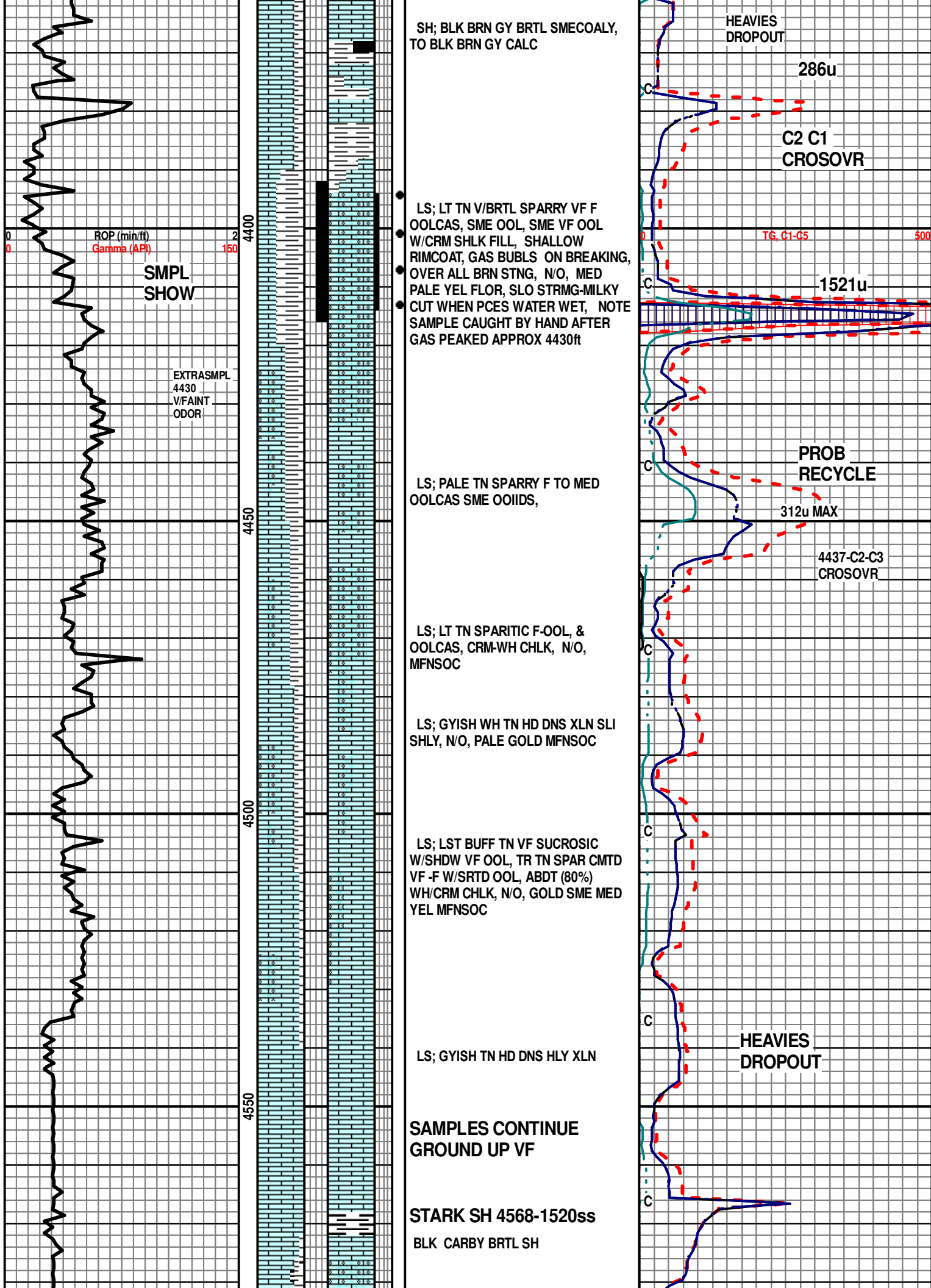
LS; DIRTY GYISH BRN BRTL,
WEATHD APPR, BANDED IP, SHDW
MICRO OOL, & FOSS, TR BUFF VF
OOL, V/CHLKY, SCATT CHT, SME
MICRO BLK PELL, N/O, PURPL WEAK
FAINT GOLD MFNSOC

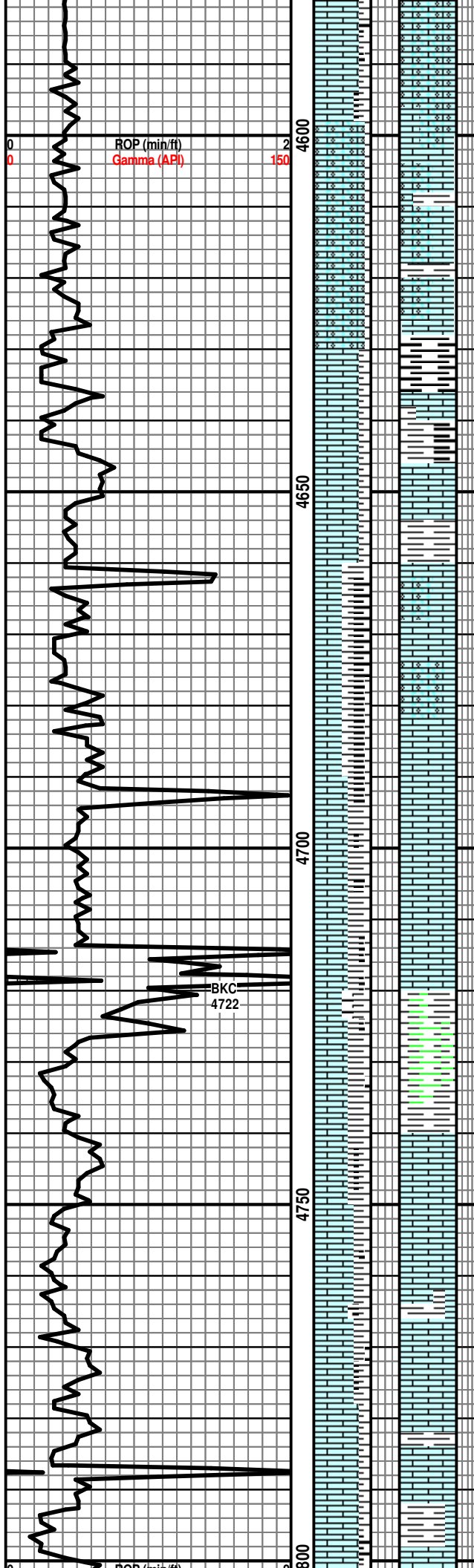
SH; BRNISH GY TO SLI GRN CALC

LS; CRM BUFF WREATHD APPR,
SPARITIC IP, SME SCATT OOL, CRS
ANG IMBD SPAR XTLS, N/O, MFNSOC

SAMPLS GROUND UP VF







LS; TN SPARITIE VF-F OOL &
OOLCAS, SME UPR FINE OOLCAS,
ABDT CRM-WH CHLK, N/O, SME MED
GOLD MFNSOC

LS;S GY TN HD X;N SHL;Y W/ALM
GYISH CHLK W/VF GY PELL

SHS; GY DK GY BLKY RGH LMY
MICRO FOSS PCES, CRS CHOR PCE

HUSPKNY 4636-1588ss

BLK BLKY CARB, V/BRTL THIN
PLATY TR MICRO PYR

LS; GY WH VF OOL & FOSS FRG
HASH, BLK SH INTRUS, VF GY PELL,
IN CHLKY W/FOSS FRGS, INCRS BRN
TN HD DNS XLN, TR OPAQ
SPARITIC F-OOLCAS, N/O, SBLK TO
V/DK AMBER MFNSOC

LS;S CRM WH COMNGLDS CHLK & HD
XLN,SME SHDW OOL, H.L. FRAC, TR
PYR, N/O PURPL W/SLI GOLD TINT,M
MFNSOC

PLSNT SH 4722-1674ss

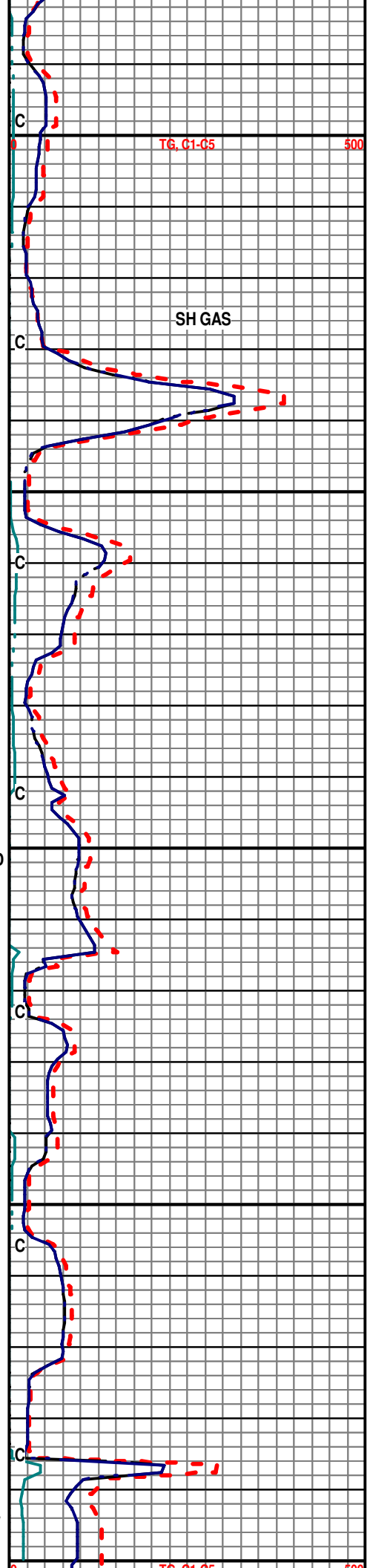
SH; LT GY, GY-GRN, GRN, CALC TO
LMY

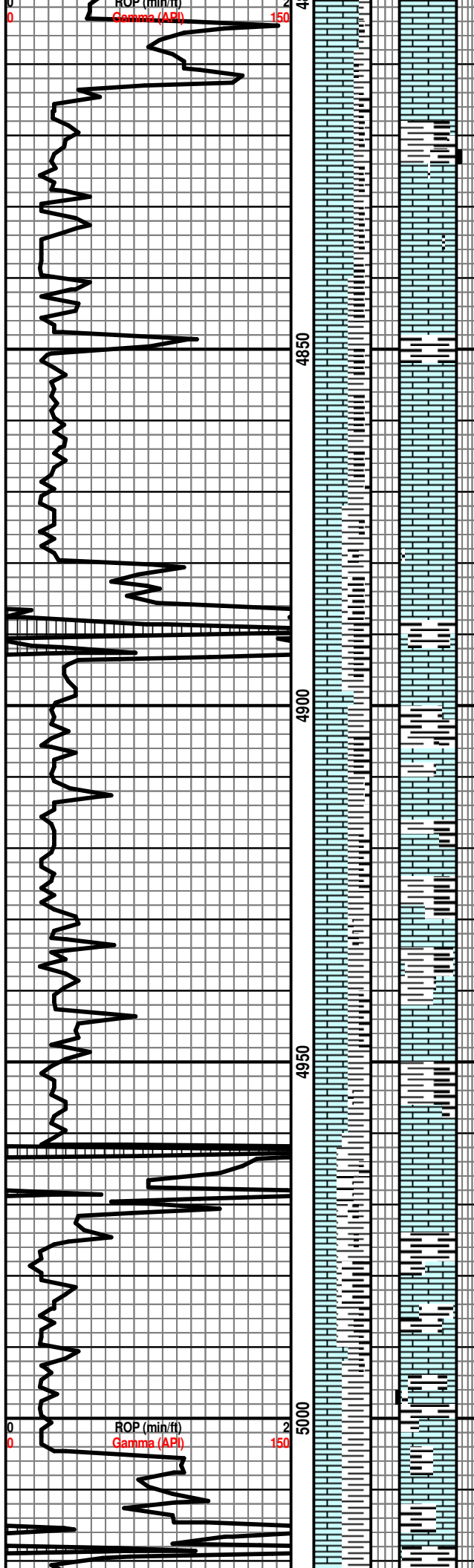
MARMATON 4742-1694ss

LS; LT GY TN CRM HD DNS XLN
SHLY, IP, GY SH CLAST, PYR, N/O,
MFNSOC

SH GY DK GY SME GY-GRN

LS; PALE BUFF TN SLI GY TINTM IP,
CHLKY W/F-GY OOLDS PELL, TR FREE
CRM CRS OVAL SPAR OOLDS, SME W/
DK GY VF PELL, & SPTCHES, N/O
PURPL TO FT-GOLD MFNSOC





SH; MOTT LT OLIVE GRN W/GY MOTT,
FLAJEY PRED BLK RGH TXT LMY
CARBY, MICA/ PYR,

**SAMPLES CONTINUE
GROUND UP VF**

LS; WH OOL, CHLK, TO LT TNOOL, &
FOSS HASH, TR PYR, N/O MFNSOC

BANDERA 4848-1800ss

BLK CARB SH

PAWNEE

LS; GT TINT BRN LT BRN S-CHLKY,
VF-OOL & FOSS FRGS, SME SH CNTR
OOL, TR PYR, WEATHD APPR, N/O
V/FT GOLDS MFNSOC

CHEROKEE 4898-1850ss

BLK CARB SH

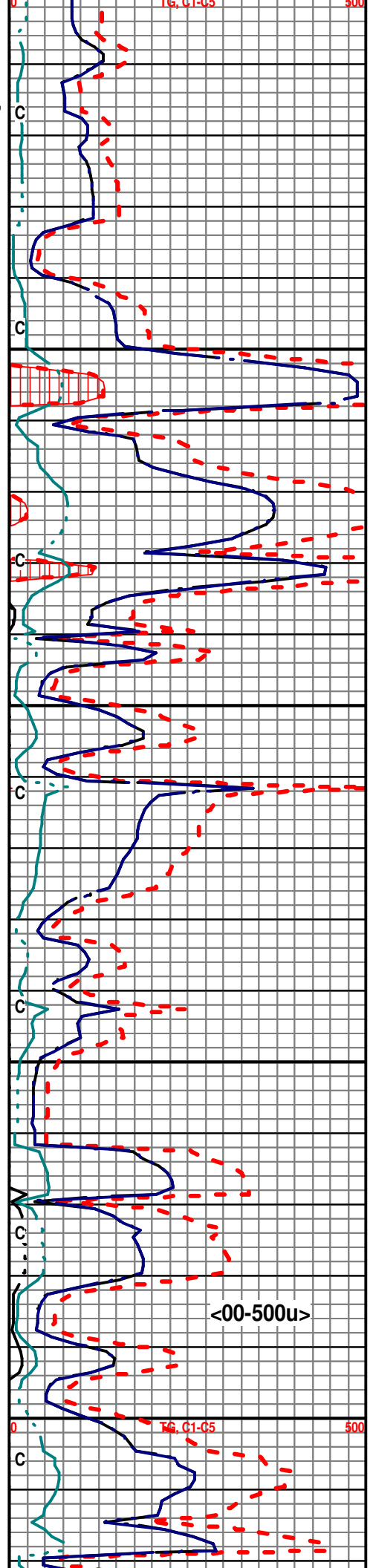
LS; HD DNS SHLY XLN INTBD CARBY
SH

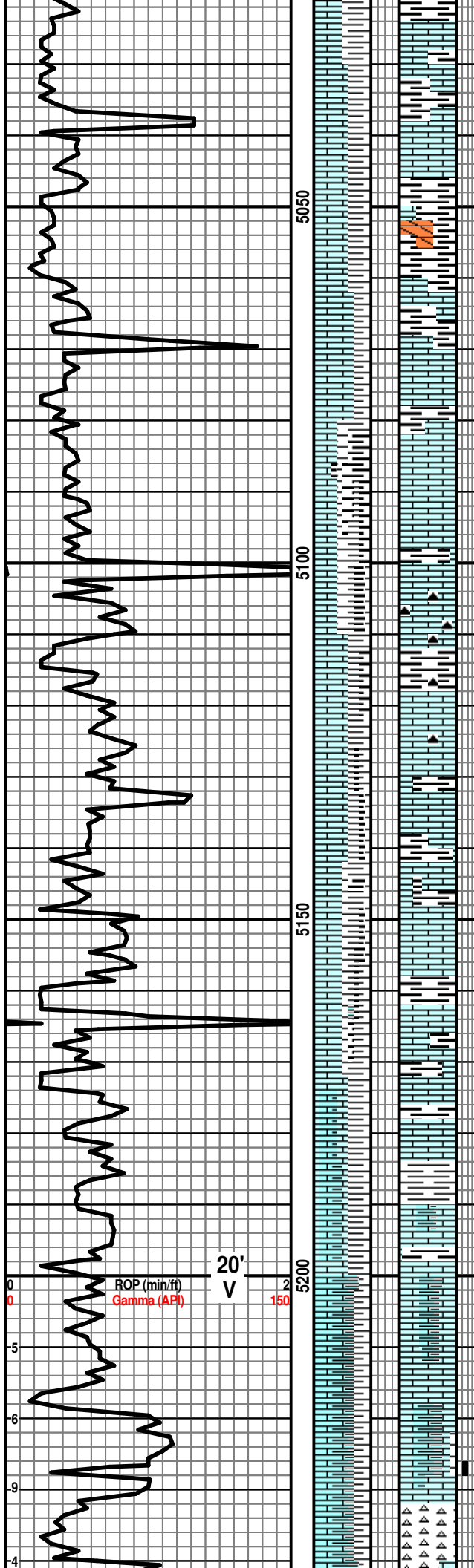
LS; TN HD XLN MICRO
BIOSPARITIC/OOL, SME GY W/SHELL
PRINTS, INTBD CARBY SH

**SAMPLES CONTINUE
GROUND UP VF**

LS; GY TN HD XLN

LS; DIRTY GY BRN S-CHLKY TO HD
DNS XLN, SME CHLKY W/MICRO
FOSS, INTBD CARB SH





LS; TN CRM MOTT GY CHLKY TO HD
XLN TRASHY SHDW MICRO FOSS, GY
SH SPOTS & SPLITCHES, N/O
MFNSOC

SH; BLK DULL BLK, DK GY PLATY TO
BLKY HD DNS TO FRM CARBY, CALC
PYR, TR GYP

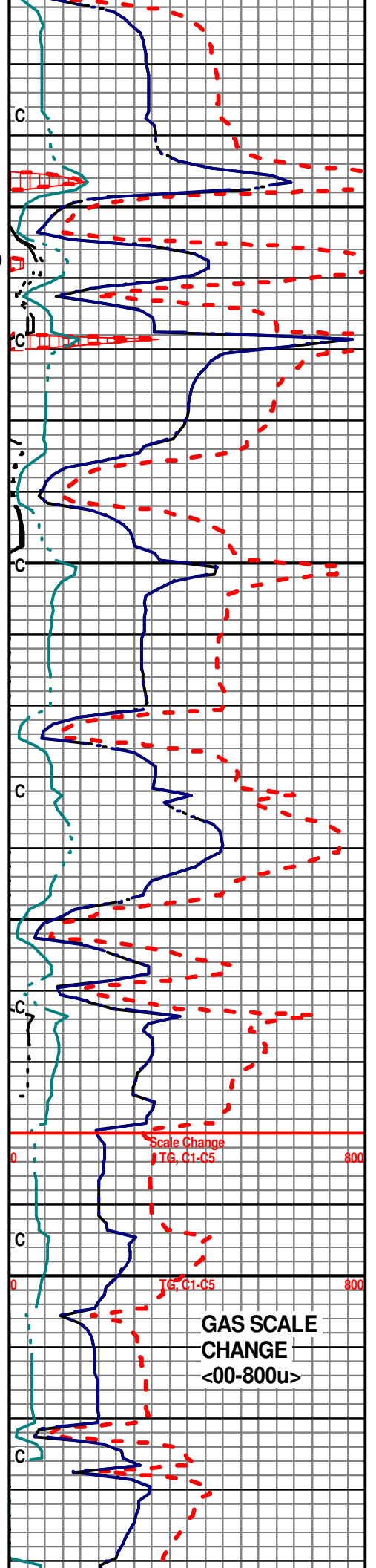
LS; BUFF WH WEATHD APPR
OOL-CHLKY, TO STN DNS VF F
BIOSPARITIC, TR DK TN SHDW CRS
CRINODAL CRYPT XLN NO SHOW

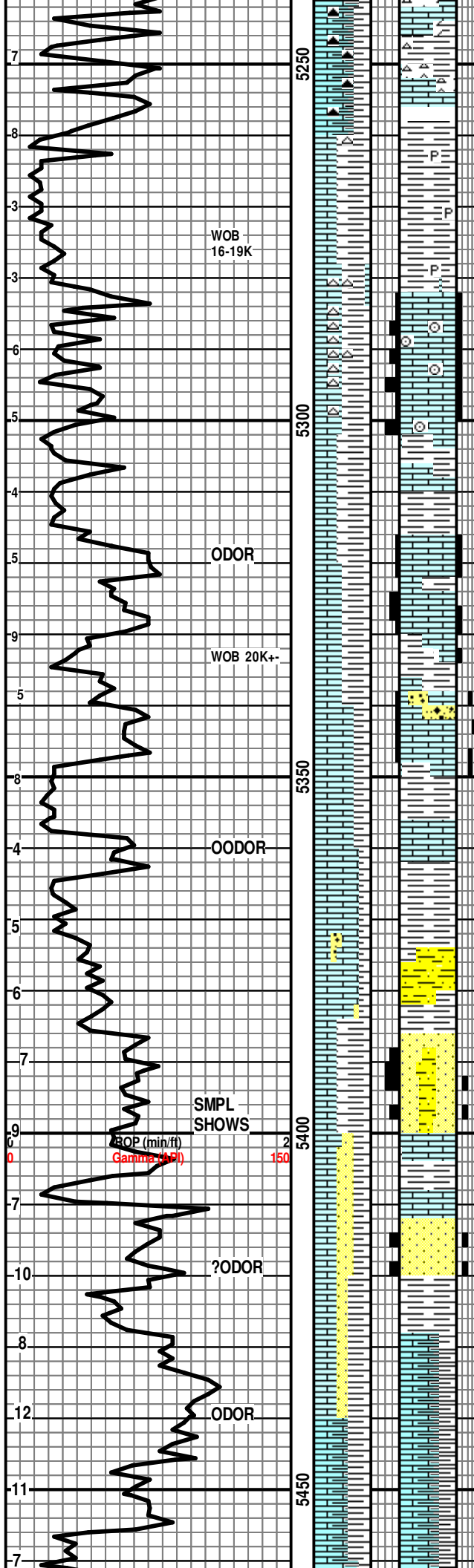
SH; BLK DULL CARB, LMY IP, MICA,
PYR, ABTD DK BRN VIT ANG CHT

LS; DIRTY ASH GY HD DNS BRTL
SHLY SME FOSS FRGS, ABTD ASH GY
S-CHLKY W/ FOSS FRGS, INTBD BLK
CARB SH, SPICULES

LS; DITY GY BRN FOSS FRGS, SHLY,
SME GYISH CHLKY, INCRS BRN HD
DNS XLN, NO SHOW

SILIC LS & BRTL OPQ TO WH
TRANSPARENT CHT, , NO SHOW





MORROW SH 5260-2212ss

SH; DULL DK GY BLK SME GRN
W/GLAU & PYR, FREE PYR CLSTRS
SME FREE CRIN

- LS; DKS TN BRTL P/SRSTD CRINOIDAL DETRTL, BRTL CMTD, HEAVY DK BRN INTR FOSS & OVER ALL STNG, GAS BUBLS AFTER SITTING IN H2O, NO FREE OIL, WEAK ODOR, DK GOLDS FAINT FLOR, FLASH MILKY STRMG HEAVY CUT, INTR FOSS FRG POR

- LS; OFF WH CRTM BRTL, VF BIOMICRO SUCROSIC/VFOOL, IP, PYR, GLAU, CHOR, SME CHLKY, TR IMBD VF GR CLR QTZ, W/GLAU, SCATT FAINT GOLD FLOR, NWEAK ODOR, , VERY SLO THIN MILKY CUT

- LS; CRM H FOSS DETRTL, CRIN, SPICULES, TR POSS FISH SCALE, CHLKY, TR W/ CXLR VF GR SS ON CRIN, HEAVY GLAU, & CHOR, SCATT BRN SPOTCHY STNG NO ODOR, V/FAINT GOLD FLOR, VERY SLO LONG WEAK MILKY CUT

BLK TODK OLIVE GY SPLNTY MICA, SME BRN CLAY PLUG

- LS; DKS TN BRN BANDED FOSS HASH SME GY BRTLW/W/ABDTGLAU, GY MED SH CLST, IP, DK BRN INTR FOS SPLOTCHY STNG, V/FAINTORNG BLKFLO, -NO GAS BUBLS, NOO FREE OIL SME ODOR, MED RING CUT

- SS; V/LT BRN VF GR, MED TT, VF CLR S-RD QTZ, SMELMY CMT, ABDT GLAU IP, W/ LT GY CRM GYISH FRGRTL LS, SCATT SDPLOTCH STNG, TR GAS BUBL ON LS, BLK FLOR, MED RING CUT

LS; GY WH HD DNS SHLY XLN, MICA, SME SFT ERTY W/VF GY PELL NO SHOW

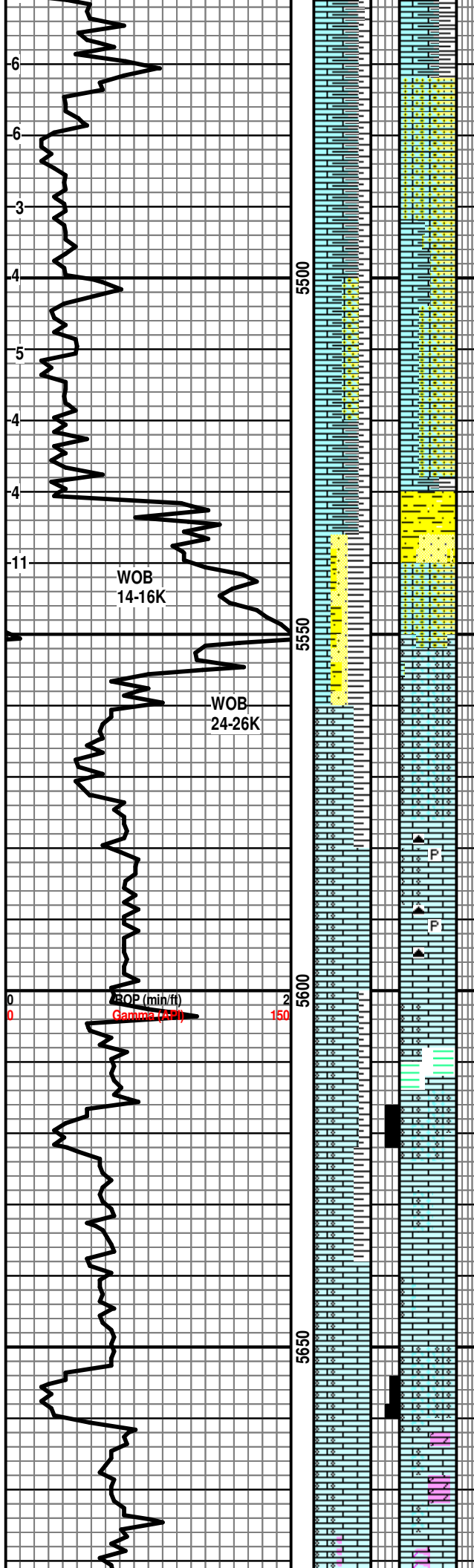
INCRS IN HEAVIES

792u

879u

TG. CNGS

800



LS; GY GY-WH DNS SHLY SME CARB
MATL, LAM GY SH W/ABDT MICA

LS; LT GY WH MOSTLY HDS TT VF
AREN, MICRO BLK PELL, SME CARB
MATL, N/O, NO STN, SCATT WEAK
GOLDS MFNSOC

SS; DIRTY GY WH V GR, MED TT, NON
CALC, SLI SHLY TO SHLY, SCATT THIN
CARB LENS, MICRO BLK PELL, N/O,
BLK FLOR NSOC

ST GEN 5530-2482ss

LS; OFF WH VF AREN

LS; CRM WH SFT CHLKY VF-F TN
OOIDS N/O, LTPURPL SME GOLD
TINGEMFNSOC

LS; CRM WH CHLKY, F-OOL, THIN
COATED GRNS, TR ORNG VIT ANG
CONCORD FRAC CHT, N/O, YEL
MFNSOC

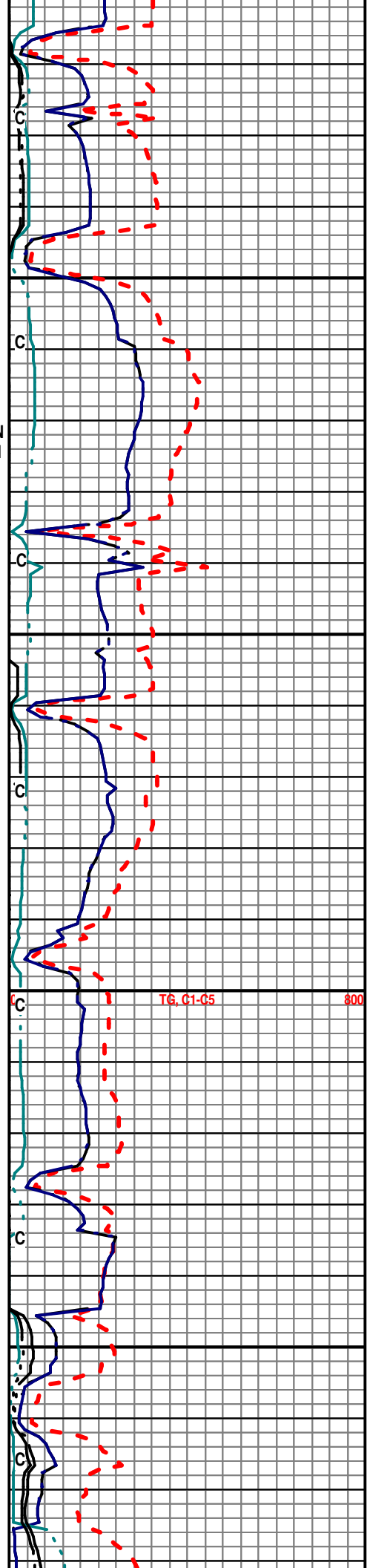
APPLE GRN LMY SH

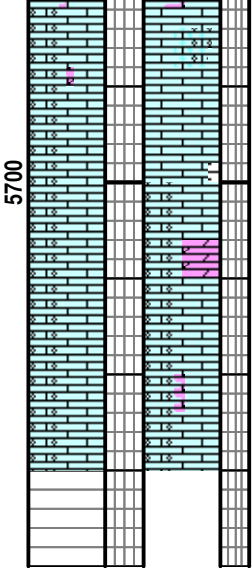
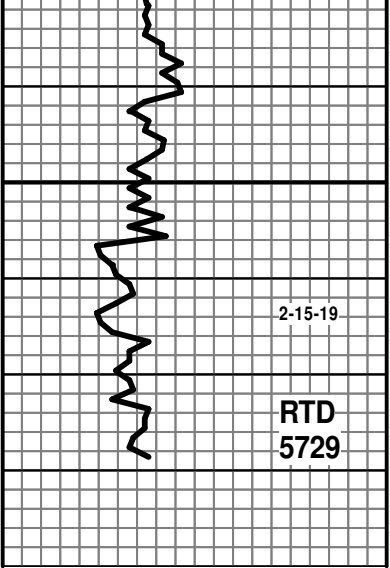
LS; CLRM WH SHDW F-OOL, TR
OPAQ SPAR CMTE F-OOL, N/O, SME
FAINT GOLDFNSOC

LS; CRM WH F-OOL, CHLKY PURPL
FLOR NSOC N/O

LS; DKL CRM CHLKY OOL LS, SME
BRNISH CRM HD XLN NO SHOW

TR DOLOMITIC/LS GY TN DULL XLN





LS; DARKER TN BRN, TN-VF-F OOL
PELL TO LT BRN HD XLN, TR
DOLOMITIC NO SHOW

THANKS FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER

