



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

Well Name: JACQUART 3
 Well Id:
 Location: Sec 15 28s 34w, Haskell County, Kansas
 License Number: 15-081-22169-0000
 Spud Date: Jan 11th 2018
 Surface Coordinates: NE-NE-SW-SE
 Region: EUBANK
 Drilling Completed: Jan 14th 2018

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 3021' K.B. Elevation (ft): 3035'
 Logged Interval (ft): 4000' To: 5675' Total Depth (ft): 5675'
 Formation: MORROW, CHESTER
 Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Merit Energy Co. LLC
 Address: 13727 Noel Road, Suite 1200
 Dallas, TX 75240
 Co. Geo: Mr. Daniel Zabaldano

GEOLOGIST

Name: Tim Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 Off: 888-543-8378 Cell: 580-754-0062

ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Sltst
 Ss
 Till
 Carb sh
 Dol
 Dtd
 Gry sh

Sandylms
 Shale
 Sltstn
 Shlyslts
 Sltysht
 Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtit
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sity

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

- Core
- Dst
- Dst

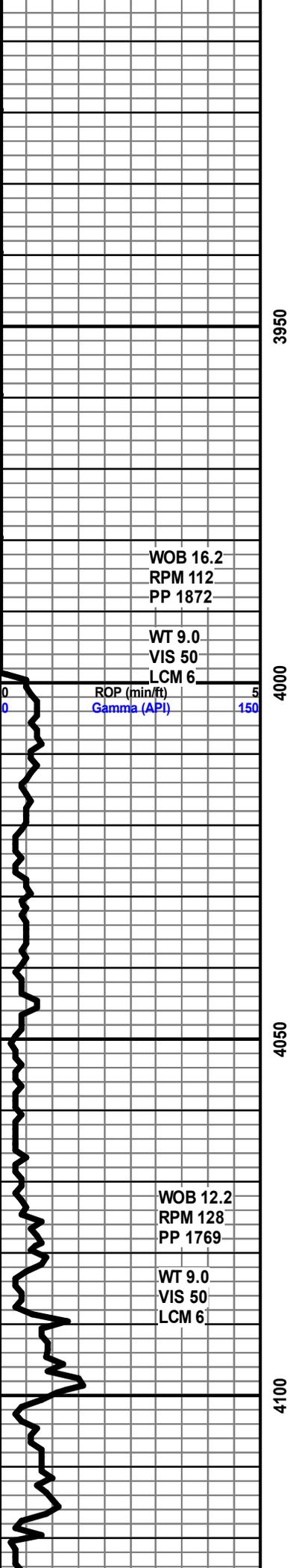
ROUNDING

- Rounded
- Subrnd
- Subang

EVENTS

- Rft
- Sidewall

Curve Track 1				TG, C1-C5																																																																												
ROP (min/ft)		Depth	Lithology	Geological Descriptions																																																																												
Gamma (API)																																																																																
				TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)																																																																												
BIT #2 7 7/8" SMITH MS1516 SER. JK2059 JETS 6-18 IN @ 1800'	0 150 300 450 600 750 900 1050 1200 1350 1500 1650 1800 1950 2100 2250 2400 2550 2700 2850 3000 3150 3300 3450 3600 3750 3900	38 3900	RIG UP UNIT JAN 12TH 2018 DUKE RIG 9 PUSHER : EMIGDIO ROJAS CO MAN : RODNEY GONZALEZ	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">SURVEYS</th> <th style="width: 10%;">TG, C1/C5</th> <th style="width: 10%;">100</th> <th style="width: 10%;">1000</th> </tr> </thead> <tbody> <tr><td>1481'=1.0 DEG. AZ 207.9</td><td></td><td></td><td></td></tr> <tr><td>1638'=1.8 DEG. AZ 236.9</td><td></td><td></td><td></td></tr> <tr><td>1733'=1.7 DEG. AZ 139.9</td><td></td><td></td><td></td></tr> <tr><td>1824'=1.5 DEG. AZ 254.9</td><td></td><td></td><td></td></tr> <tr><td>1980'=1.2 DEG. AZ 262.9</td><td></td><td></td><td></td></tr> <tr><td>2169'=1.2 DEG. AZ 234.9</td><td></td><td></td><td></td></tr> <tr><td>2326'=1.0 DEG. AZ 248.9</td><td></td><td></td><td></td></tr> <tr><td>2528'=1.5 DEG. AZ 231.9</td><td></td><td></td><td></td></tr> <tr><td>2721'=1.6 DEG. AZ 239.9</td><td></td><td></td><td></td></tr> <tr><td>2878'=1.1 DEG. AZ 234.9</td><td></td><td></td><td></td></tr> <tr><td>3026'=0.8 DEG. AZ 238.9</td><td></td><td></td><td></td></tr> <tr><td>3191'=0.9 DEG. AZ 265.9</td><td></td><td></td><td></td></tr> <tr><td>3381'=1.1 DEG. AZ 268.9</td><td></td><td></td><td></td></tr> <tr><td>3538'=1.8 DEG. AZ 261.9</td><td></td><td></td><td></td></tr> <tr><td>3696'=2.3 DEG. AZ 254.9</td><td></td><td></td><td></td></tr> <tr><td>3758'=3.0 DEG. AZ 262.0</td><td></td><td></td><td></td></tr> <tr><td>3802'=3.5 DEG. AZ 260.9</td><td></td><td></td><td></td></tr> <tr><td>3864'=3.2 DEG. AZ 264.9</td><td></td><td></td><td></td></tr> </tbody> </table>	SURVEYS	TG, C1/C5	100	1000	1481'=1.0 DEG. AZ 207.9				1638'=1.8 DEG. AZ 236.9				1733'=1.7 DEG. AZ 139.9				1824'=1.5 DEG. AZ 254.9				1980'=1.2 DEG. AZ 262.9				2169'=1.2 DEG. AZ 234.9				2326'=1.0 DEG. AZ 248.9				2528'=1.5 DEG. AZ 231.9				2721'=1.6 DEG. AZ 239.9				2878'=1.1 DEG. AZ 234.9				3026'=0.8 DEG. AZ 238.9				3191'=0.9 DEG. AZ 265.9				3381'=1.1 DEG. AZ 268.9				3538'=1.8 DEG. AZ 261.9				3696'=2.3 DEG. AZ 254.9				3758'=3.0 DEG. AZ 262.0				3802'=3.5 DEG. AZ 260.9				3864'=3.2 DEG. AZ 264.9			
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WOB 16.2
RPM 112
PP 1872

WT 9.0
VIS 50
LCM 6

ROP (min/ft)
Gamma (API)

WOB 12.2
RPM 128
PP 1769

WT 9.0
VIS 50
LCM 6

3950

4000

4050

4100



START 24 HR MANNED UNIT JAN.13TH 2018

LS- OFF WHT CRM LT TN - HD DNS TO TR BRITT, MD-XLN RE-XLN IP, TO SUCRO S-CHLKY IP TR FOSS FRGS IP, TR FREE WHT TN CHERT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

HEEBNER 4027' (-992')

SH- BLK SFT CARB

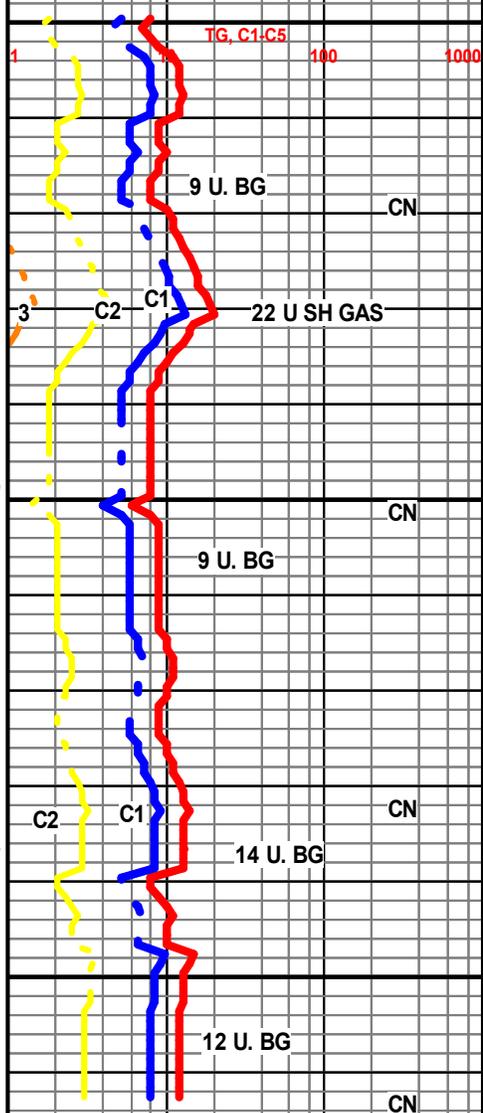
TORONTO 4039' (-1004')

LS- WHT OFF WHT CRM, HD IP TO SUCRO S-CHLKY THRU, WHT TR FOSS FRGS IP, WHT CHERT, LT BRIT YEL FLO IP TO DLL YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- WHT OFF WHT CRM BFF- HD IP TO BRITT, MD-XLN TO SUCRO S-CHLKY MTRX, TR FREE ABDT SFT WHT CHLK, SCAT IMBD FOSS FRGS IP, TR MED CALC XLS IMBD IP, LT YEL FLO IP, PR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

SH- LT TO MED GY- FM BLKY SMTH TXT TO SLI GRNY IP, SLI CALC

3927'	=3.6 DEG	AZ 264.9
3991'	=4.3 DEG	AZ 266.9
4053'	=3.5 DEG	AZ 266.9
4136'	=4.5 DEG	AZ 259.9
4200'	=4.3 DEG	AZ 266.0
4263'	=3.9 DEG	AZ 258.0
4326'	=4.1 DEG	AZ 261.0
4390'	=4.0 DEG	AZ 264.0
4453'	=4.2 DEG	AZ 259.9
4516'	=4.2 DEG	AZ 262.0
4578'	=4.2 DEG	AZ 262.0
4642'	=3.8 DEG	AZ 250.9
4673'	=3.5 DEG	AZ 257.9
4716'	=3.4 DEG	AZ 251.9
4778'	=3.8 DEG	AZ 251.9
4810'	=3.5 DEG	AZ 252.9
4906'	=3.8 DEG	AZ 247.9
5033'	=3.5 DEG	AZ 253.9
5095'	=3.4 DEG	AZ 254.9
5159'	=3.1 DEG	AZ 246.9
5244'	=3.0 DEG	AZ 249.9
5303'	=3.4 DEG	AZ 246.9
5368'	=3.5 DEG	AZ 242.9
5431'	=3.5 DEG	AZ 238.9
5494'	=3.2 DEG	AZ 244.9
5558'	=2.8 DEG	AZ 247.9



TG, C1:C5

9 U. BG

22 U SH GAS

9 U. BG

14 U. BG

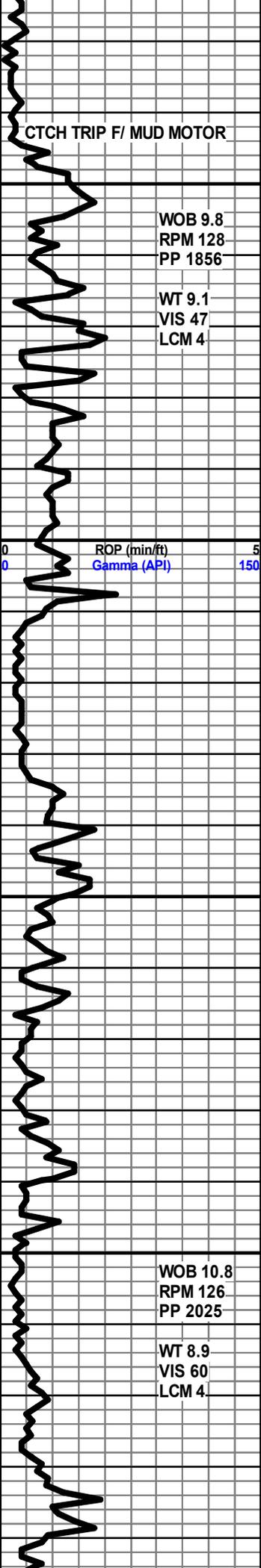
12 U. BG

CN

CN

CN

CN



LS- OFF WHT CRM LT TN - HD BRITT, MD-XLN RE-XLN MTRX , W/ IMBD FOSS FRGS IP TO V/ SUCRO SLI S-CHLKY IP, SLI TR SFT WHT CHLK IP, LT BRIT YEL MIN FLO SCATT, PR VIS INTER-XLN POR IP, POSS MICRO VUG POR IP, NO VIS SHOW OR CUT

BOB @ 4:45 AM JAN 14TH 2018

LANSING 4144' (-1110')

LS- OFF WHT CRM LT TN - HD DNS TO BRITT IP, F-XLN TO MED -XLN, SUCRO S-CHLKY IP, TR IMBD FOSS FRGS IP, IMBD LRG CALC XLS, ABDT WHT TRNSLCNT CHRT, LT BRIT YEL MIN FLO, TR PR VIS MICRO PP POR IP, NO VIS SHOW

4178-4181' LS- LT TN TN LT BRN(DUE TO OIL STN IN 80%) HD V/ BRITT, MD-XLN TO SUCRO IP, RE-XLN MTRX, IMBD SMLL TO MD ANG LM GRNS, SCAT FOSS FRGS IP, TR CALC XLS IMBD IP, WHT WEATHERED CHRT IP, BRIT YEL GLD SPTTD FLO THRU, GD VIS INTER-XLN TO GD VIS VUG POR THRU, EXCEL INST FLSH CUT IN 90%, EXCEL SLO STRM MILKY BUE CUT THRU, LT TN LCH ON DISH, FR OIL ODOR WET, GD OIL ODOR DRY

LS- WHT OFF WHT CRM LT TN - HD BRITT IP TO SFT IP, MED -XLN RE-XLN MTRX, V/ OOLMLD IP TO SLI OOL, V/ S-CHLKY TO CHLKY IP, ABDT WHT TRNSLCNT CHRT IMBD IP, TR FOSS FRG IP, GRDNG TO ABDT FREE SFT CHLK, LT BRIT YEL MIN FLO IP, GD SCAT OOLCAST POR IP TO TR INTER-XLN POR IP, NO VIS SHOW OR CUT

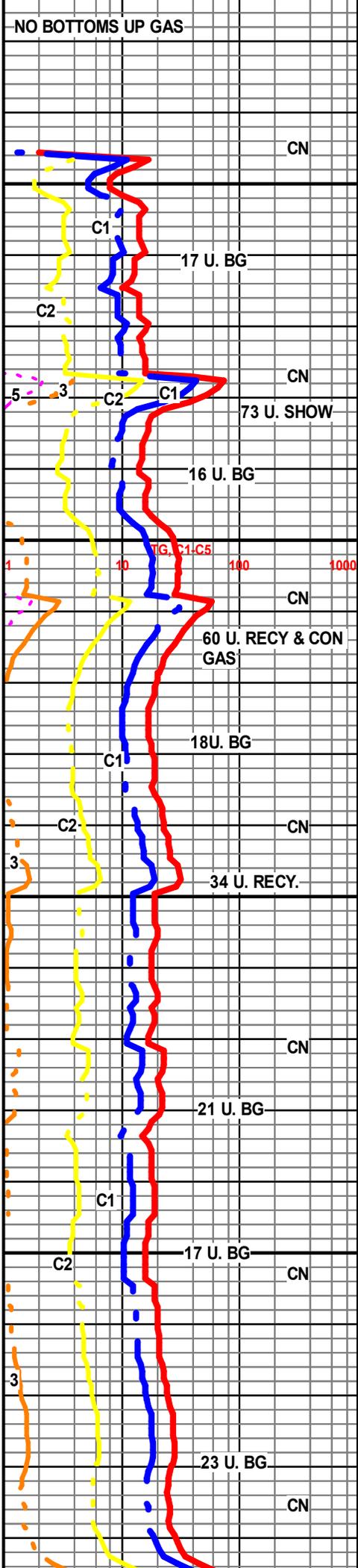
LS- LT TN TN LTG Y- HD DNS TO BRITT, MD-F-XLN RE-XLN MTRX, MOTT, TO SLI SUCRO IP, IMBD FOSS FRGS THRU, IMBD LT GY SH IP, SCAT IMBD WHT TN CHRT IP, LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

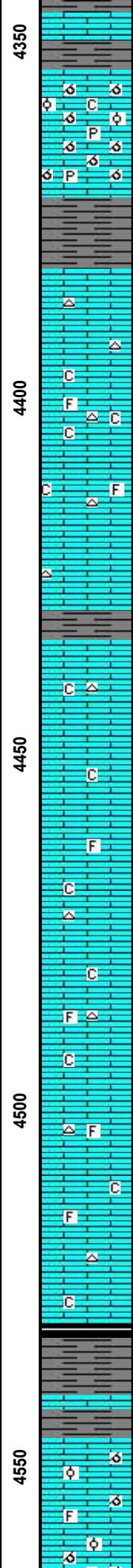
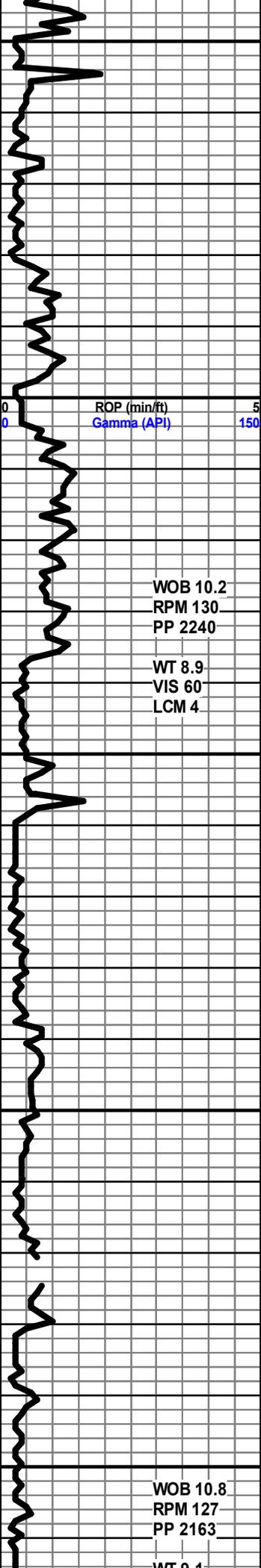
LS-CRM LT TN TN - HD TO V/ BRITT, MED-XLN TO SUCRO IP, TR SMLL TO MED CALC XLS IP, V/ S-CHLKY YO CHLKY IP, TR FREE FOSS FRGS , TR WHT TRNSLCNT CHRT, LT YEL MIN FLO SCAT IP, NO VIS POR, NO VIS SHOW OR CUT

LS- WHT OFF WHT TR CRM- MED HD TO SFT, V/ SUCRO S-CHLKY TO CHLKY MTRX, TR FREE SFT WHT CHLK IP, V/ DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN - HD DNS V/F-CRYPTO-XLN IP TO MED -XLN , TN WHT MOTT CHERT IP, FRLY NON DESCRIPT, NO FLO, NO VIS SHOW OR CUT

SH- BLK SFT CARB TO V/ DK GY CALC IP





4361-4365 LS- OFF WHT CRM - HD V/ BRITT, MED-XLN RE-XLN MTRX , V/ MICRO OOLCAST TO OOLICAST , MICRO OOL IP, W SCAT CHLKY OOL. TR DISS PYR IMBD IP, LT BRIT YEL FLO IN 30%, DLL YEL FLO IN 10%, GD VIS OOLICAST TO TR PR VUG POR IP, FR RING CUT, FLEETING OIL ODOR (NOTE: GAS INCREASE WAS ALMOST 90% METHANE)

LS- WHT OFF WHT CRM - HD BRITT TO SFT IP. MED-XLN SLI RE-XLN TO SUCRO S-CHLKY , TR FREE SFT WHT CHLK, TR IMBD FOSS FRGS IP, WHT TRANSLCNT CHRT IMBD IP, LT BRIT MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- WHT OFF WHT CRM - MED HD TO SFT, SUCRO V/ S-CHLKY MTRX, ABDT FREE SFT CHLK IP, TR FOSS FRGS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

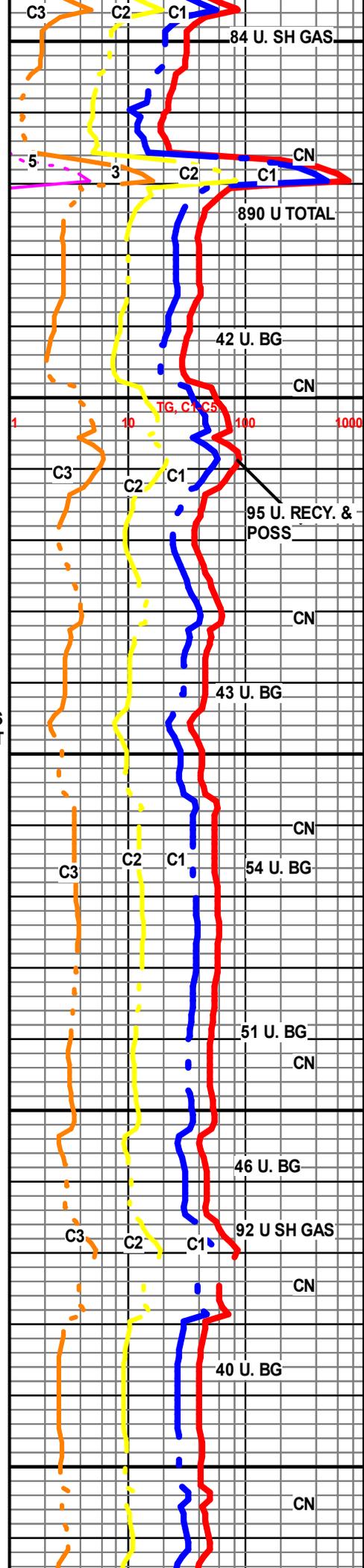
LS- WHT OFF WHT CRM - HD DNS TO BRITT, MD-XLN RE-XLN MTRX SUCRO S-CHLKY IP, FOSS FRGS IP , TR ABDT FREE SFT CHLK IP, ABDT WHT TN CHRT, LT YEL MIN FLO, TR PR MICRO PP POR IP, NO VIS SHOW

STARK 4531' (- 1496')

SH- BLK SFT CARB

SWOPE 4554'(- 1519')

LS- CRM LT TN TN OFF WHT - HD DNS IP TO BRITT, MED-XLN RE-XLN MTRX V/ OOLICAST TO V/ MICRO OOL, ABDT FOSS FRGS, SLI S-CHLKY IP, DLL YEL MIN FLO IP TO LT BRIT MIN FLO IP, PR OOLICAS T POR, PR MICRO



84 U. SH GAS

890 U TOTAL

42 U. BG

43 U. BG

54 U. BG

51 U. BG

46 U. BG

92 U SH GAS

40 U. BG

95 U. RECY. & POSS

1 10 100 1000

5

3

1

1

1

1

1

1

WT 9.1
VIS 54
LCM 4

VUG IP, NO VIS CUT OR SHOW

LS- WHT OFF WHT CRM- MED-XLN TO SUCRO S-CHLKY MTRX , HVY TR FREE SFT WHT CHLK IP, IMBD FOSS FRGS, SMLL OOLITES IMBD IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

HUSHPUCKNEY 4598' (- 1563')

SH- BLK SFT CARB

LS- CRM LT TN LT GY GY- HD DNS MED-F-XLN RE-XLN MTRX MOTT, IMBD FOSS FRGS IMBD DK GY SH THRU, TN GY CHERT IP, NO FLO NO VIS POR, NO VIS SHOW OR CUT

LS- CRM OFF WHT LT GY GY- HD DNS TO BRITT, MOTT, F-XLN IP TO V/ TT SUCRO MTRX SLI TR S-CHLKY IP, SLI TR LT GY CHERT IP, TR LT GY IMBD SH IP, NO FLO, NO VIS POR, NO VIS SHOW

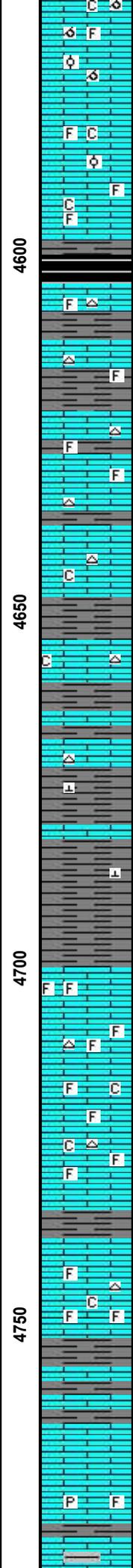
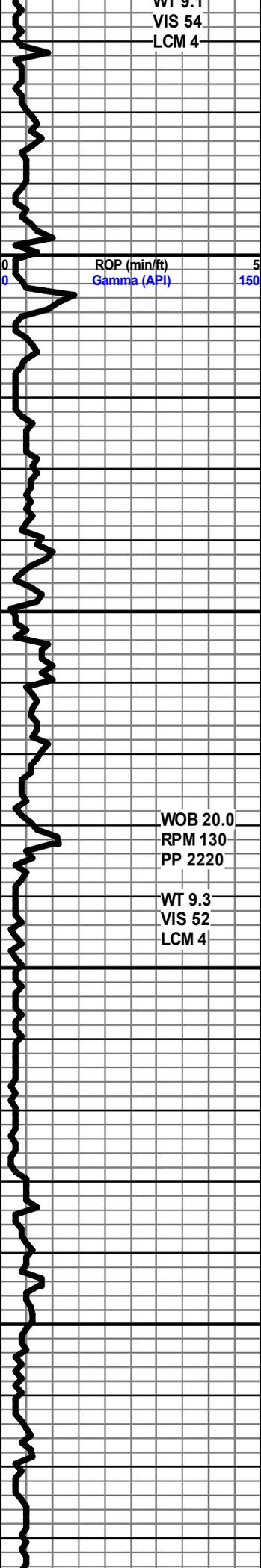
SH- GY DK GY - FRM BLKY SLI GRAINY TXT TO LT GREEN V/ SMOOTH TXT SLI CALC IP

MARMATON 4700' (- 1665')

LS- WHT OFF WHT CRM- HD BRIT, MED-XLN V/ RE-XLN MTRX TO SUCRO S-CHLKY IP, FOSS FRGS THRU, SCAT FREE CRIN STEMS, WHT TN CHERT IP, TR FREE SFT WHT CHLK IP, V/ DLL YEL MIN FLO IP, POSS PR INTER-FOSS POR TO NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MED-XLN RE-XLN IP, IMBD FOSS FRGS, SMLL CALC XLS IP, TR IMBD SH IP, SLI TR TAN CHERT, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD BRITT, MED-XLN IP RE-XLN TO SUCRO IP, HVY TR FREE SFT WHT CHLK IP, IMBD FOSS FRGS, SMLL OOLITES IMBD IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT



LS- WHT OFF WHT CRM- MED-XLN TO SUCRO S-CHLKY MTRX , HVY TR FREE SFT WHT CHLK IP, IMBD FOSS FRGS, SMLL OOLITES IMBD IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

HUSHPUCKNEY 4598' (- 1563')

SH- BLK SFT CARB

LS- CRM LT TN LT GY GY- HD DNS MED-F-XLN RE-XLN MTRX MOTT, IMBD FOSS FRGS IMBD DK GY SH THRU, TN GY CHERT IP, NO FLO NO VIS POR, NO VIS SHOW OR CUT

LS- CRM OFF WHT LT GY GY- HD DNS TO BRITT, MOTT, F-XLN IP TO V/ TT SUCRO MTRX SLI TR S-CHLKY IP, SLI TR LT GY CHERT IP, TR LT GY IMBD SH IP, NO FLO, NO VIS POR, NO VIS SHOW

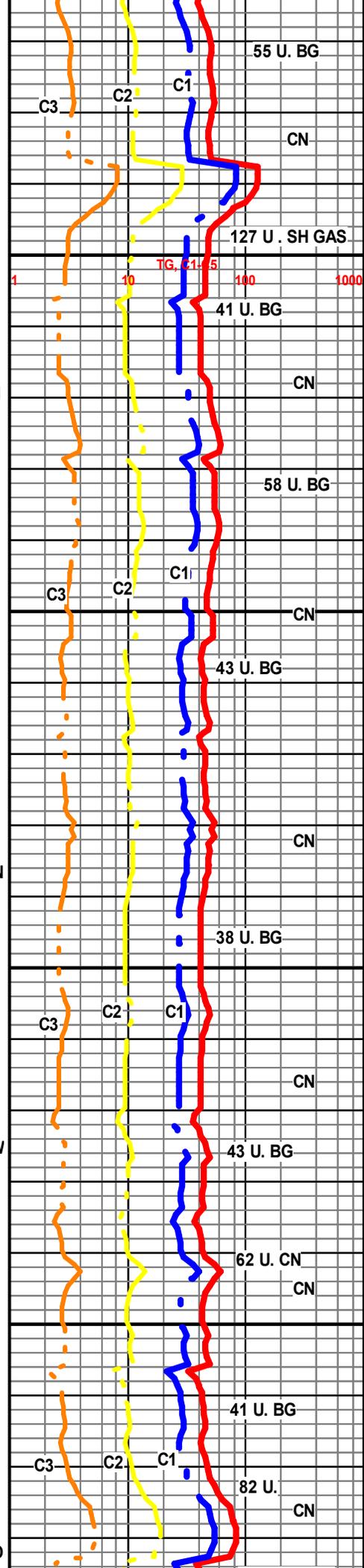
SH- GY DK GY - FRM BLKY SLI GRAINY TXT TO LT GREEN V/ SMOOTH TXT SLI CALC IP

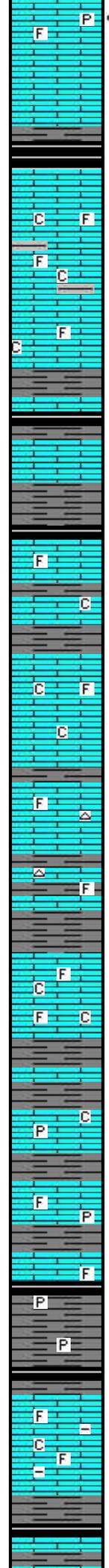
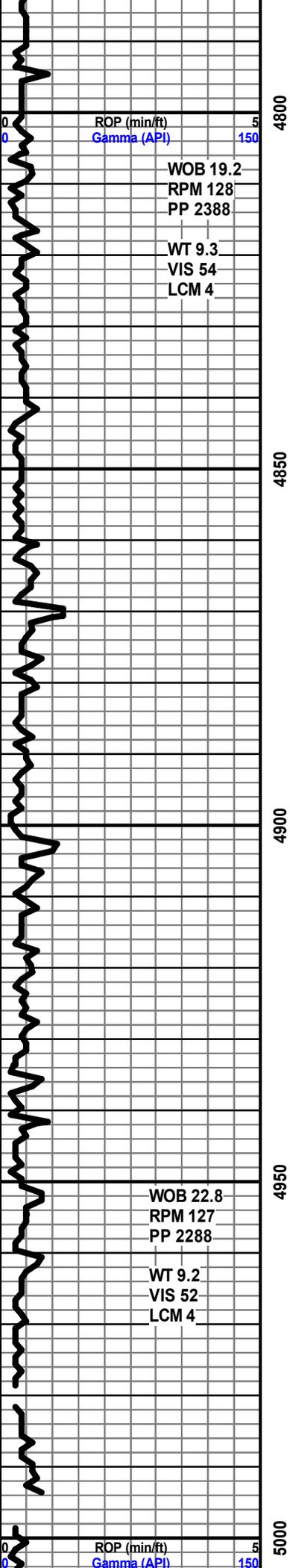
MARMATON 4700' (- 1665')

LS- WHT OFF WHT CRM- HD BRIT, MED-XLN V/ RE-XLN MTRX TO SUCRO S-CHLKY IP, FOSS FRGS THRU, SCAT FREE CRIN STEMS, WHT TN CHERT IP, TR FREE SFT WHT CHLK IP, V/ DLL YEL MIN FLO IP, POSS PR INTER-FOSS POR TO NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MED-XLN RE-XLN IP, IMBD FOSS FRGS, SMLL CALC XLS IP, TR IMBD SH IP, SLI TR TAN CHERT, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD BRITT, MED-XLN IP RE-XLN TO SUCRO IP, HVY TR FREE SFT WHT CHLK IP, IMBD FOSS FRGS, SMLL OOLITES IMBD IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT





SUCRO IP, ABDT IMBD SMLL TO MED ANG LM GRAINS THRU, TR FOSS FRGS, TR IMBD DISS GY SH IP, SLI TR DISS PYR IP, LT BRIT LEMON YEL FLO IN 30%, DLL YEL MIN FLO IN 20%, NO VIS POR, NO FLSH CUT NO STREAM CUT , LT RING CUT , NO OODR

PAWNEE 4804' (-1771')

SH- BLK SFT CARB

LS- OFF WHT CRM LT GY- HD BRITT, MD-XLN TO SUCRO TO SUCRO SLI S-CHLKY IP, SCAT IMBD FOSS FRGS THRU, TR IMBD DISS SH, SCAT FRM CHLK , DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB

CHEROKEE 4859' (- 1824')

SH- BLK SFT CARB

LS- OFF WHT CRM BFF- HD DNS TO BRITT IP, MED-XLN TO F-XLN IP, SLI S-CHLKY, IMBD MD-ANG LM GRAINS SCAT THRU, TR FOSS FRGS IP, TR IMBD SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN TN - HD DNS TO TR BRITT, F-XLN RE-XLN MTRX, SCAT IMBD FOSS FRGS THRU, SLI TR SUCRO IP, SLI TR FRM WHT CHLK IP, TR TAN GY CHERT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

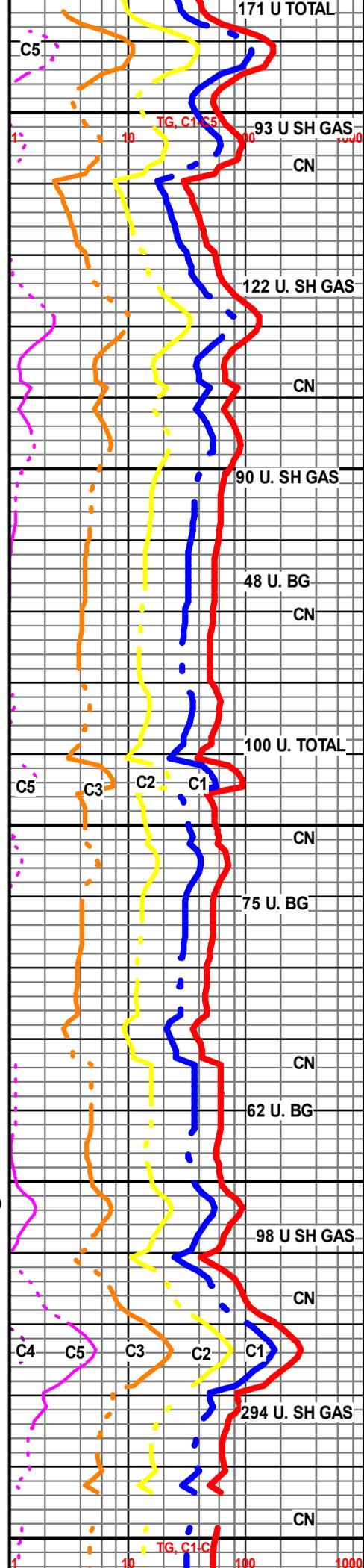
LS- CRM OFF WHT LT TN- HD DNS TO BRITT IP MED-XLN TO SUCRO IP, SLI S-CHLKY , IMBD FOSS FRGS SCAT THRU, TR DISS LT GY SH IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

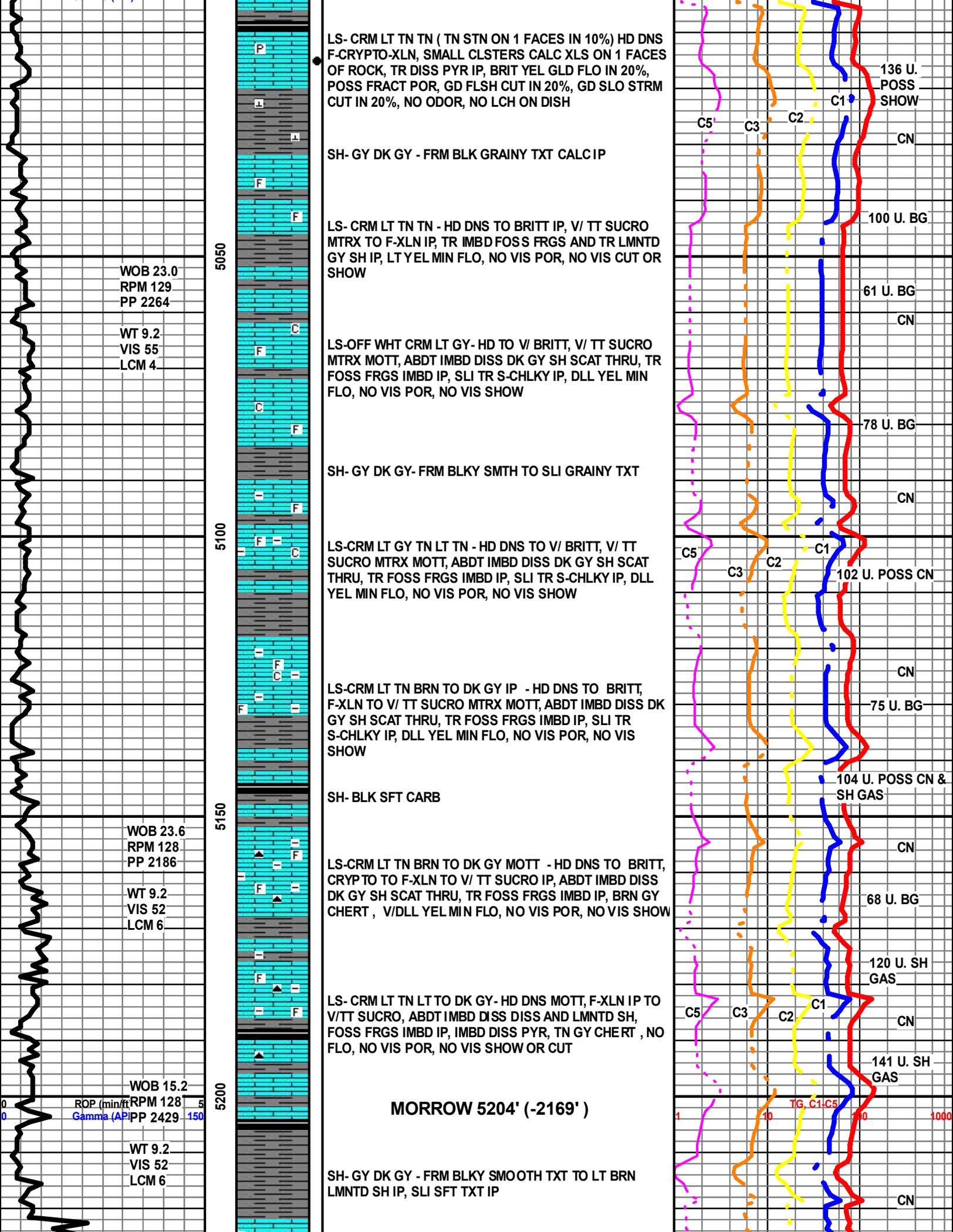
LS- OFF WHT CRM LT TN - HD DNS MOTT, F-XLN IP GRDNG TO SUCRO SLI S-CHLKY IP, TR FOSS FRGS IMBD IP, TR DISS PYR IP, TR LMNTD GY SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB SLI CALC IP, FREE PYR CLSTRS & IMBD DISS PYR IP

LS-OFF WHT CRM - HD BRITT, MD-XLN RE-XLN IP, IMBD FOSS FRGS, TR IMBD SFT CHLK IP, SLI TR IMBD SH , NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB TO DK GY- FRM BLKY V/ CALC TO LMY IP





LS- CRM LT TN TN (TN STN ON 1 FACES IN 10%) HD DNS F-CRYPTO-XLN, SMALL CLSTERS CALC XLS ON 1 FACES OF ROCK, TR DISS PYR IP, BRIT YEL GLD FLO IN 20%, POSS FRACT POR, GD FLSH CUT IN 20%, GD SLO STRM CUT IN 20%, NO ODOR, NO LCH ON DISH

SH- GY DK GY - FRM BLK GRAINY TXT CALC IP

LS- CRM LT TN TN - HD DNS TO BRITT IP, V/ TT SUCRO MTRX TO F-XLN IP, TR IMBD FOSS FRGS AND TR LMNTD GY SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS-OFF WHT CRM LT GY- HD TO V/ BRITT, V/ TT SUCRO MTRX MOTT, ABDT IMBD DISS DK GY SH SCAT THRU, TR FOSS FRGS IMBD IP, SLI TR S-CHLKY IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- GY DK GY- FRM BLKY SMTH TO SLI GRAINY TXT

LS-CRM LT GY TN LT TN - HD DNS TO V/ BRITT, V/ TT SUCRO MTRX MOTT, ABDT IMBD DISS DK GY SH SCAT THRU, TR FOSS FRGS IMBD IP, SLI TR S-CHLKY IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS-CRM LT TN BRN TO DK GY IP - HD DNS TO BRITT, F-XLN TO V/ TT SUCRO MTRX MOTT, ABDT IMBD DISS DK GY SH SCAT THRU, TR FOSS FRGS IMBD IP, SLI TR S-CHLKY IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS-CRM LT TN BRN TO DK GY MOTT - HD DNS TO BRITT, CRYPTO TO F-XLN TO V/ TT SUCRO IP, ABDT IMBD DISS DK GY SH SCAT THRU, TR FOSS FRGS IMBD IP, BRN GY CHERT , V/DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN LT TO DK GY- HD DNS MOTT, F-XLN IP TO V/TT SUCRO, ABDT IMBD DISS DISS AND LMNTD SH, FOSS FRGS IMBD IP, IMBD DISS PYR, TN GY CHERT , NO FLO, NO VIS POR, NO VIS SHOW OR CUT

MORROW 5204' (-2169')

SH- GY DK GY - FRM BLKY SMOOTH TXT TO LT BRN LMNTD SH IP, SLI SFT TXT IP

WOB 23.0
RPM 129
PP 2264

WT 9.2
VIS 55
LCM 4

WOB 23.6
RPM 128
PP 2186

WT 9.2
VIS 52
LCM 6

WOB 15.2

ROP (min/ft) RPM 128 5
Gamma (API) PIP 2429 150

WT 9.2
VIS 52
LCM 6

136 U. POSS SHOW

100 U. BG

61 U. BG

78 U. BG

102 U. POSS CN

75 U. BG

104 U. POSS CN & SH GAS

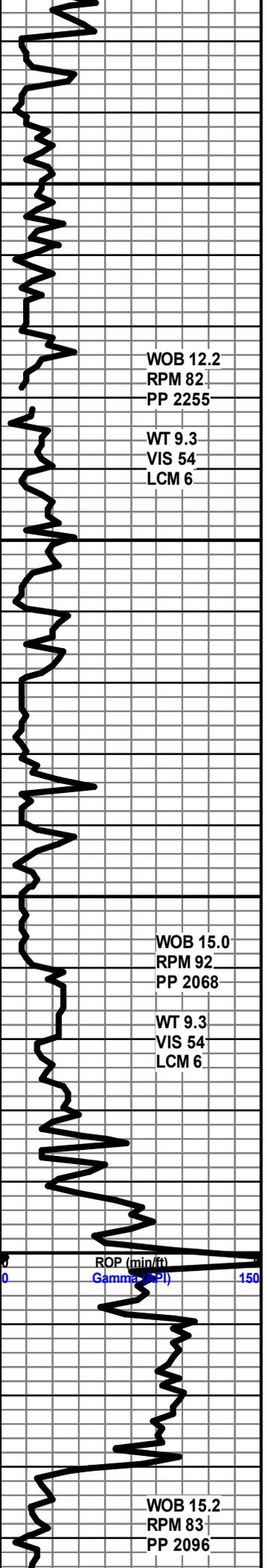
68 U. BG

120 U. SH GAS

141 U. SH GAS

1 10 100 1000

CN



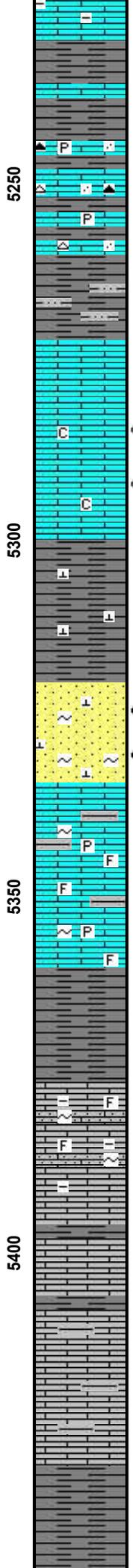
WOB 12.2
RPM 82
PP 2255

WT 9.3
VIS 54
LCM 6

WOB 15.0
RPM 92
PP 2068

WT 9.3
VIS 54
LCM 6

WOB 15.2
RPM 83
PP 2096



LS- TN BRN- HD DNS F-XLN TO V/TT FN SUCRO MTRX, IMBD TR LMNTD GY SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO V/ LT GREEN, FRM BLKY SMOOTH TXT

LS- CRM LT TN DK GY WHT-MOTT, HD DNS BRITT IP, F-XLN RE-XLN , IMBD WHT BLK CHERT, TR PYR CLSTRS, TR MD S-RND CLEAR QUARTZ GRAINS IP, IMBD DK GY SH IP, NO FLO, NO VIS POR, NO VI SHOW

SH- LT GREEN - FRM BLKY SMOOTH TXT TO SFT V/ SILTY TXT IP

LS- OFF WHT CRM BFF TR BLK DOS IP-HD BRITT, MED-XLN , RE-XLN MTRX, IMBD SMLL ANG LM GRNS , TR S-CHLKY IP, LT BRIT YEL FLO IP TO NO FLO, POSS PR INTER-XLN POR, FR FLSH CUT IN 30%, FR SLO STREAM CUT IN 50% NO ODOR,

SH- GY DK GY- FRM BLKY SMOOTH TXT , SLI TO V/ CALC TO LMY IP

SS- LT TN TN LT BRN (DUE TO OIL STN IN 60-80%) HD V/ FRI, F-MD GRAIN QRTZ, ANG TO S-ANG , CLR TO TAN GRAINS, FAIR TO WELL SRT,SIL TO SLI CALC CMNT, SCAT IMBD GLAUC IP, BRIT YEL GLD FLO THRU, FR TO GD VIS INTER-GRAIN POR SCAT THUR, V/GD FLSH CUT IN 60%, V/ GD SLO STRM CUT THRU, FR OIL ODOR WET, TAN LEACH ON DISH

LS- CRM LT TN LT GY- HD DNS TO BRITT, MOTT, MED-XLN RE-XLN IMBD, FOSS FRGS IP, IMBD DISS AD LMNTD SH , TR PYR IMBD IP, SLI TR GLAUC OR KAOL, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

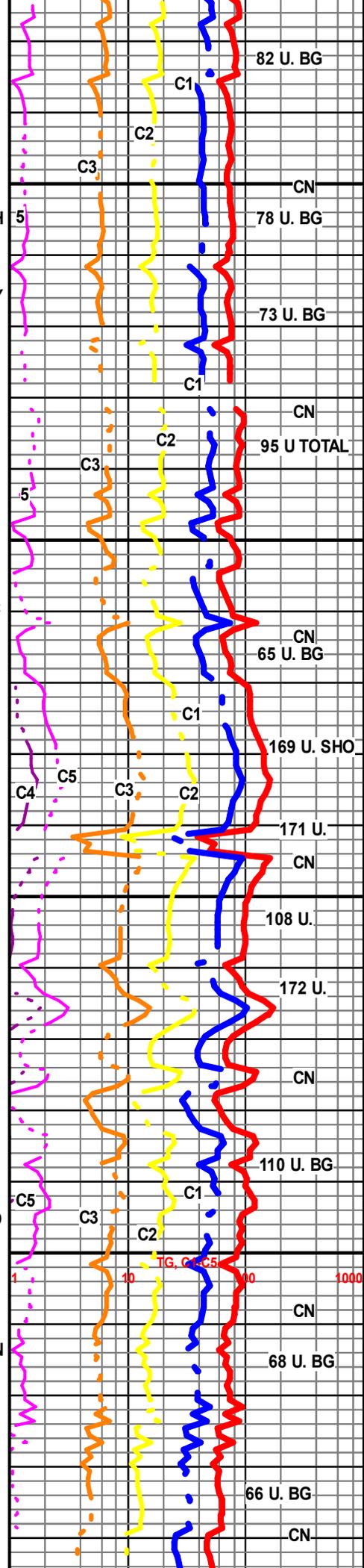
SH- GY DK GY- FRM BLKY SMOOTH TXT

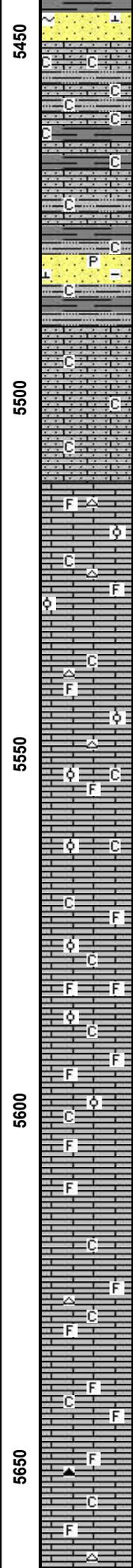
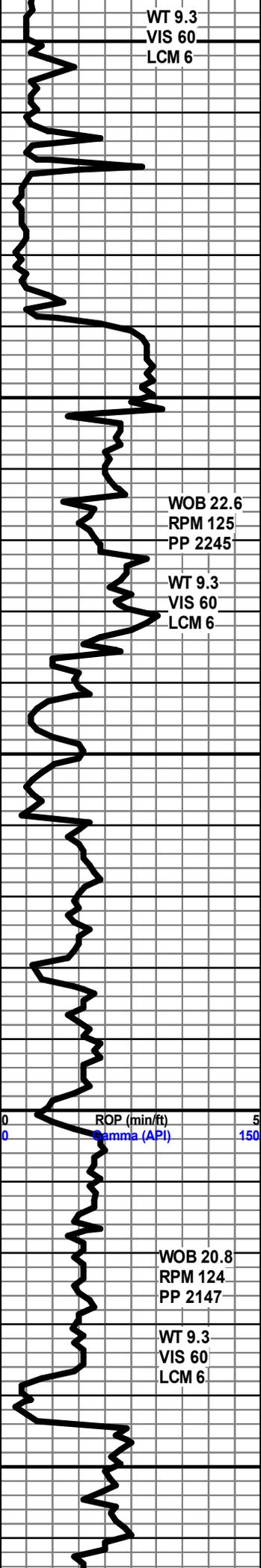
LS- CRM LT TN TN - HD DNS TO V/ BRITT, MED-XLN RE-XLN IP, IMBD FOSS FRGS IP, ABTD IMBD SCAT SMLL TO MED QRTZ GRAINS IP, IMBD DK GY SH, TR IMBD GLAUC OR KAOL IP, NO FLO, POS INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- LT TN TN LT G IP, HD DNS TO BRITT, MED-XLN RE-XLN IP TO SUCRO IP, IMBD LT GY SH IP, TR LT GREEN SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- GY DK GY BRN- FRM BLKY SMTH TXT MOTT

5448-5450' SS- FRSTY WHT- HD TT TO V/ FRI, F-MD GRN, CLEAR QUARTZ GRAINS, ANG TO S-ANG, FR SRT, SIL TO





CLEAR QUARTZ GRAINS, ANG TO S-ANG, FR SRT, SIL TO CAL CMNT IP, TR GLAUC & OR KAOL, BRIT YEL GLD FLO IN 30%, PR TO FR VIS INTER-GRAN POR IP, FR FLSH CUT TO V/GD SLO STRM CUT IN 30%, NO ODOR

SHALES AND SILTS, HD TO V/ SFT , ABDT IMBD FN TO MED CLEAR QUARTZ GRAINS W/ ABDT IMBD SFT WHT CHLK, LAMINATED RED AND PURPLE SHALES

5479-5481 SS- CLR TO FRSTY GRAINS, HD TT IP TO FRI, FN TO MED QUARTZ GRAINS , ANG S-ANG, SIL TO TR CALC CMNT IP, WELL SRT, IMBD DISS LT GY SH IP, TR DISS PYR IMBD IP, BRIT YEL GLD FLO IN 70%, PR TO FR VIS INTER-GRAN POR, WK FLSH CUT TO PR SLO STRM CUT IP, NO ODOR, NO LCH ON DISH

ST. GEN 5489' (-2454')

LS- OFF WHT CRM- V/ SUCRO S-CHLKY MTRX, ABDT IMBD V/F-GRN QURTZ, TR MICRO OOL IP, NO FLO , NO VIS POR, NO VIS SHOW

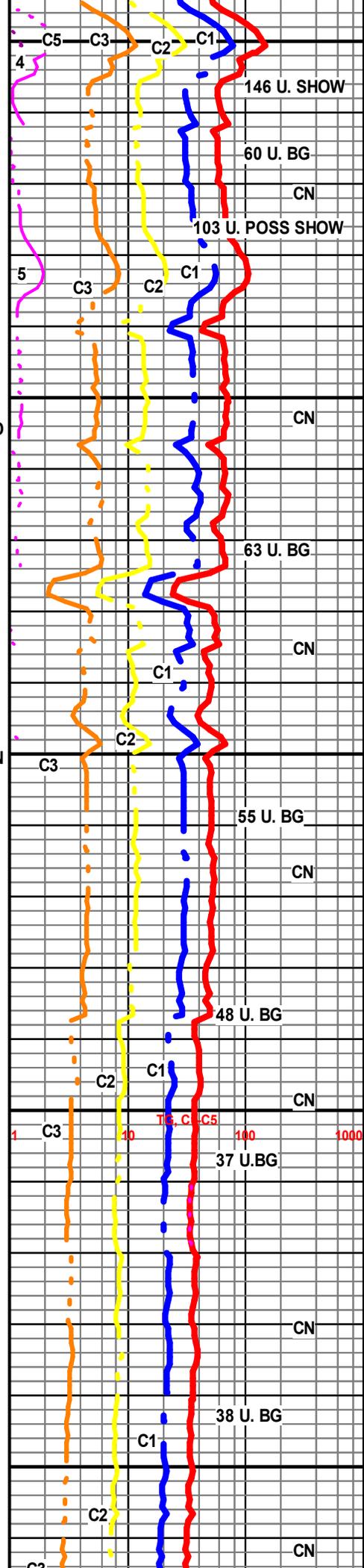
LS- CRM OFF WHT - HD BRITT MED-XLN RE-XLN MTRX, IMBD FOSS FRGS THRU, SMLL SCAT MICRO OOL, WHT OPQUE CHERT, S-CHLKY IP, V/ DLL YEL MIN FLO, NO VIS POR , NO VIS SHOW

LS- OFF WHT WHT CRM BFF - HD BRITT MED-XLN RE-XLN MTRX, IMBD FOSS FRGS THRU, SMLL SCAT MICRO OOL, WHT OPQUE CHERT, S-CHLKY IP, V/ DLL YEL MIN FLO, NO VIS POR , NO VIS SHOW

LS- OFF WHT CRM BFF - HD BRITT MED-XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, SMLL SCAT MICRO OOL, S-CHLKY IP, HVY TR FREE SFT WHT CHLK, V/ DLL YEL MIN FLO, NO VIS POR , NO VIS SHOW

LS-WHT OFF WHT CRM BFF- MD-XLN IP RE-XLN IP, V/ S-CHLKY TO CHLKY IP, FOSS FRGS THRU , WHT CHRT, DLL YEL FLO, NO VIS POR, NO VIS SHOW

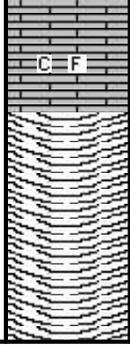
LS-WHT OFF WHT CRM BFF- MD-XLN IP RE-XLN , V/ S-CHLKY TO CHLKY IP, ABDT FOSS FRGS THRU , WHT ORNGE CHRT, DLL YEL FLO, NO VIS POR, NO VIS SHOW



R.T.D. @ 5675'

L.T.D. @

00

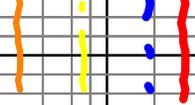


R.T.D. @ 9:48 AM JAN 14TH 2018

WIPER TRIP TO 4000

CTCH TOFL

CS



33U.BG

R.T.D @ 5675'

LOG COMPLETED BY
TIM HEDRICK/AARON SUELTER