

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WENU 202
Doc ID	1515614

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
BOREHOLE VOLUME CALIPER LOG
COMPENSATED NEUTRON PEL DENSITY MICRO LOG
COMPOSITE LOG
MICROLOG
PHASED INDUCTION SHALLOW FOCUSE SP LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WENU 202
Doc ID	1515614

Tops

Name	Top	Datum
HEEBNER	4016	.
TORONTO	4033	.
LANSING	4072	.
SWOPE	4532	.
HERTHA	4586	.
MARMATON	4676	.
PAWNEE	4785	.
CHEROKEE	4841	.
ATOKA	5016	.
MORROW	5158	.
ST GENEVIEVE	5437	.

QUASAR ENERGY SERVICES, INC.



3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336

Form 185-2c

Fax: 940-612-3336 | qesi@qeserve.com

3/9/20

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY	Well Name: WENU 202
Type Job: Cement- Surface	AFE #: 0

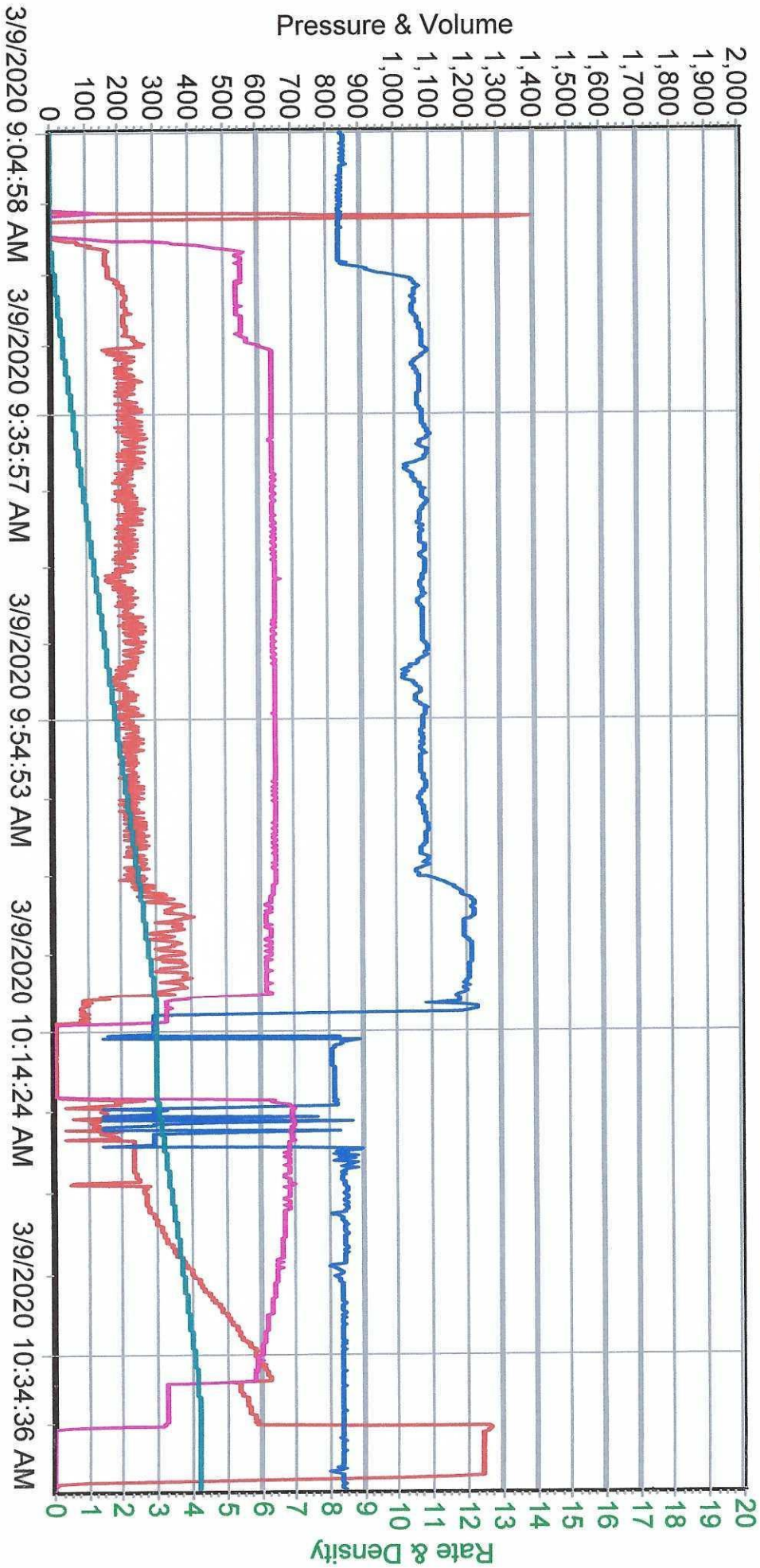
CASING DATA			
Size:	8 5/8	Grade:	J-55
		Weight:	24
Casing Depths	Top: 0	Bottom:	SJ - 42.20
Drill Pipe:	Size: 0	Weight:	0
Tubing:	Size: 0	Weight:	0
		Grade:	0
		TD (ft):	1789
Open Hole:	Size: 12 1/4	T.D. (ft):	1789
Perforations	From (ft): 0	To: 0	Packer Depth(ft): 0

CEMENT DATA							
Spacer Type:		FRESH WATER					
Amt.	10 BBL	Sks Yield		ft ³ /sk		Density (PPG)	
LEAD:	CLASS C - 2% GYP, 2% C-45, 3% CC, 1/2# POLY					Excess	100
Amt.	510	Sks Yield	2.42	ft ³ /sk		Density (PPG)	12.1
TAIL:	CLASS C - 2% CC, 1/2# POLY					Excess	100
Amt.	165	Sks Yield	1.35	ft ³ /sk		Density (PPG)	14.8
WATER:							
Lead:	14.25	gals/sk:		Tail:	6.4	gals/sk:	
110 / DP7							
Pump Trucks Used:							
Bulk Equipment:	229 / 660-24 -- 230 / 660-20						
Disp. Fluid Type:		Amt. (Bbls.)		Weight (PPG):			
Mud Type:				Weight (PPG):			

COMPANY REPRESENTATIVE: RODNEY GONZALEZ **CEMENTER:** KIRBY HARPER

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
0430						ON LOCATION -- SPOT AND RIG UP
1003						CASING ON BOTTOM -- BREAK CIRC.
1015						SAFETY MEETING
1022	1500					PRESSURE TEST
1025	200			10	5	START PUMPING WATER SPACER
1028	250			220	6	START PUMPING LEAD @ 12.1 PPG
1104	250			40	6	START PUMPING TAIL @ 14.8 PPG
1114						SHUT DOWN -- CLEAN PUMP AND LINES
1117	300			0	6	START DISPLACING WITH FRESH WATER
1137	550			101	2	SLOW RATE
1139	600-1250			111		BUMP PLUG
1141	1250-0					RELEASE PRESSURE -- FLOAT HELD
				20		CIRCULATE CEMENT TO THE PIT

MERIT
WENU 202
8.625 SURFACE
03/09/20





QUASAR ENERGY SERVICES, INC.

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 Gainesville, Texas 76240
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 Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2c

3/15/20

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY **Well Name:** WENU 202

Type Job: Cement - DV Tool **AFE #:** 0

CASING DATA					
Size:	5 1/2	Grade:	J-55	Weight:	17
Casing Depths	Top: 0	Bottom:	SJ - 45.36		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 0	Weight:	0	Grade: 0	TD (ft): 6388
Open Hole:	Size: 7 7/9	T.D. (ft):	6388		
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	DVT -- 45732.3	

CEMENT DATA						
Spacer Type:	MUD FLUSH					
Amt.	40 BBL	Sks Yield		ft ³ /sk	20 BBL PER STAGE	Density (PPG)
LEAD:	50/50 CLASS C -- 6% GYP, 10% SALT, 5# KOLSEAL, 2% GEL, .5% C-17					Excess
Amt.	410	Sks Yield	1.58	ft ³ /sk	1ST-255SK/2ND-155SK	Density (PPG) 13.7
TAIL:	60/40 - 4% GEL					Excess
Amt.	50	Sks Yield	1.5	ft ³ /sk	RAT AND MOUSE HOLES	Density (PPG) 13.5

WATER:						
Lead:		gals/sk:	7.2	Tail:		gals/sk:
						Total (bbls):
Pump Trucks Used:	110 - DP7					
Bulk Equipment:	229 - 660-24 / 228 - 660-23					
Disp. Fluid Type:	WATER/MUD	Amt. (Bbls.)	147	Weight (PPG):	8.33 / 9.2	
Mud Type:				Weight (PPG):	9.2	

COMPANY REPRESENTATIVE: RODNEY **CEMENTER:** KIRBY HARPER

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	AM/PM	Casing	Tubing	ANNULUS	TOTAL	
2030	03/14/20					ON LOCATION -- SPOT AND RIG UP
0820	03/15/20					CASING ON BOTTOM -- BREAK CIRC.
0830						SAFETY MEETING
1012	2500					PRESSURE TEST
1014	400			20	5	PUMP HIVIS MUDFLUSH
1019	400			72	6	START MIXING 255 SK CMT @ 13.7 PPG
1038						SHUT DOWN -- CLEAN LINES - DROP PLUG
1045	200			0	7	START DISPLACING WITH FRESH WATER
1051	200			35	8	START DISPLACING WITH MUD
1100	400				7	CEMENT REACHES DISPLACEMENT
1105	900			137	3	SLOW RATE
1107	1000-1500			147		BUMP PLUG
1108	1500-0					RELEASE PRESSURE -- FLOAT HELD
1112						DROP OPENING TOOL
1133	700					OPEN TOOL
1145						CIRC WITH RIG PUMP -- WOC



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Form 185-2c

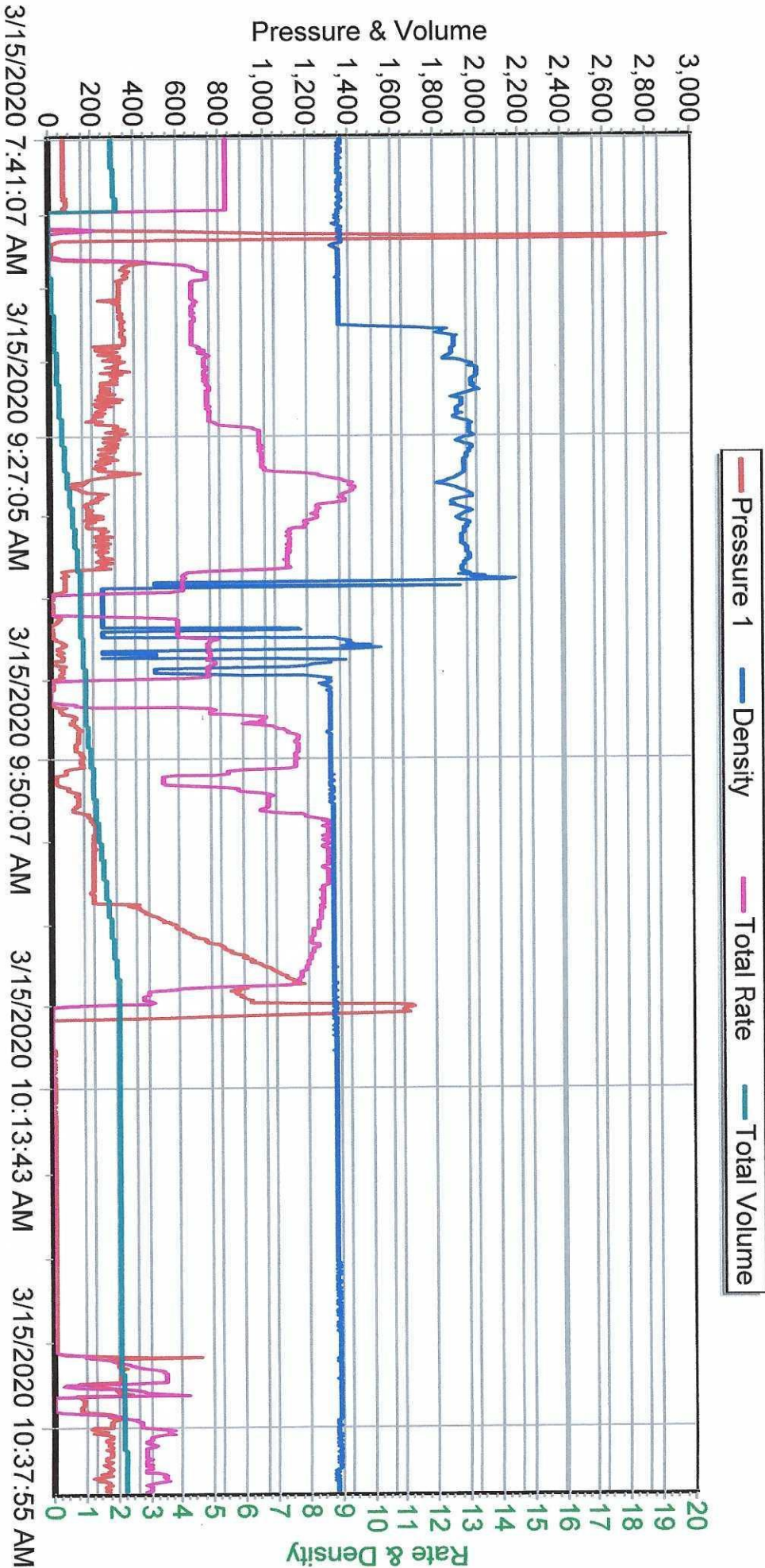
3/15/20

JOB LOG

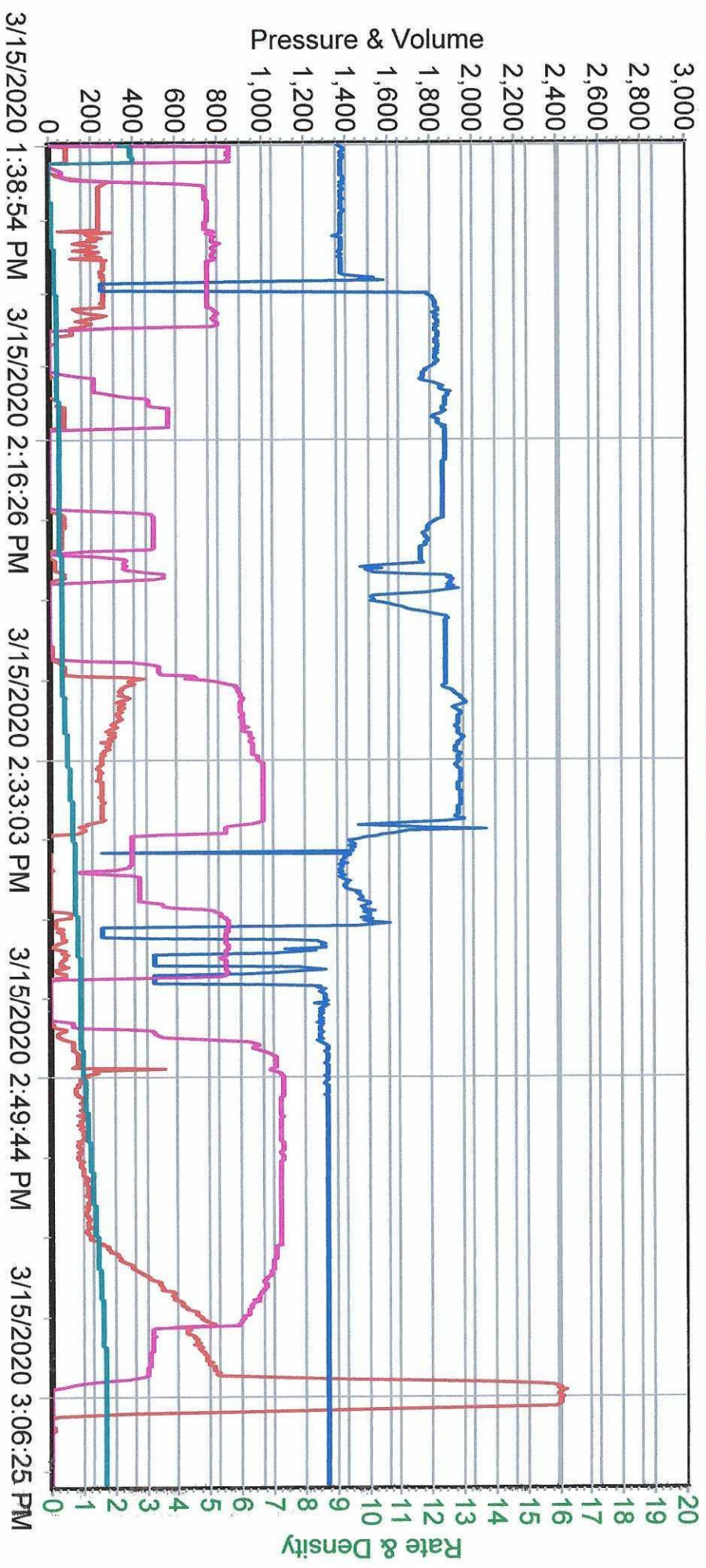
JOB LOG

Company: MERIT ENERGY COMPANY				Well Name: WENU 202			
Type Job: Cement - DV Tool				AFE #: 0			
CASING DATA							
Size:	5 1/2		Grade:	J-55	Weight:	17	
COMPANY REPRESENTATIVE: RODNEY			CEMENTER: KIRBY HARPER				
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
						----- SECOND STAGE -----	
1500						SHUT DOWN RIG PUMP -- SWAP LINES	
1503	300				20	5	PUMP HIVIS MUD FLUSH
1512					13	3	PLUG RAT AND MOUSE HOLES (50 SK)
1527	300				44	6	START MIXING 155 SK CMT @ 13.7 PPG
1541							SHUT DOWN -- CLEAN LINES -- DROP PLUG
1546	250				0	7	START DISPLACING WITH FRESH WATER
1558	400				80	5	DISPLACEMENT REACHES CEMENT
1604	800				100	3	SLOW RATE
1604	800-2500				110		BUMP PLUG -- CLOSE TOOL
1607	2500-0						RELEASE PRESSURE -- TOOL CLOSED

MERIT ENERGY COMPANY
WENU # 202
5 1/2" PRODUCTION
1ST STAGE
03/15/2020



MERIT ENERGY COMPANY
 WENU # 202
 5 1/2" PRODUCTION
 2ND STAGE
 03/15/2020



— Pressure 1 — Density — Total Rate — Total Volume

MBC WELL LOGGING LLC

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

Well Name: WENU AFE 62931 MERIT ENERGY CO LLC
 Well Id: API 15-081-22217-00-00
 Location: HASKELL COUNTY, KANSAS USA
 License Number: 32446
 Spud Date: 3-07-2020
 Surface Coordinates: 1130'fel- 1200'fnl-SEC 4-T28S-R34W SW/SW/NE/NE
 Bottom Hole Coordinates: BAKER HUGHES -DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'
 Ground Elevation (ft): 3077
 Logged Interval (ft): 4000 To: 6411
 Formation: ST LOUIS
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630

Region: EUBANK NORTH
 Drilling Completed: 3-13-2020
 K.B. Elevation (ft): 3089
 Total Depth (ft): Elog 6403

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

OPERATOR

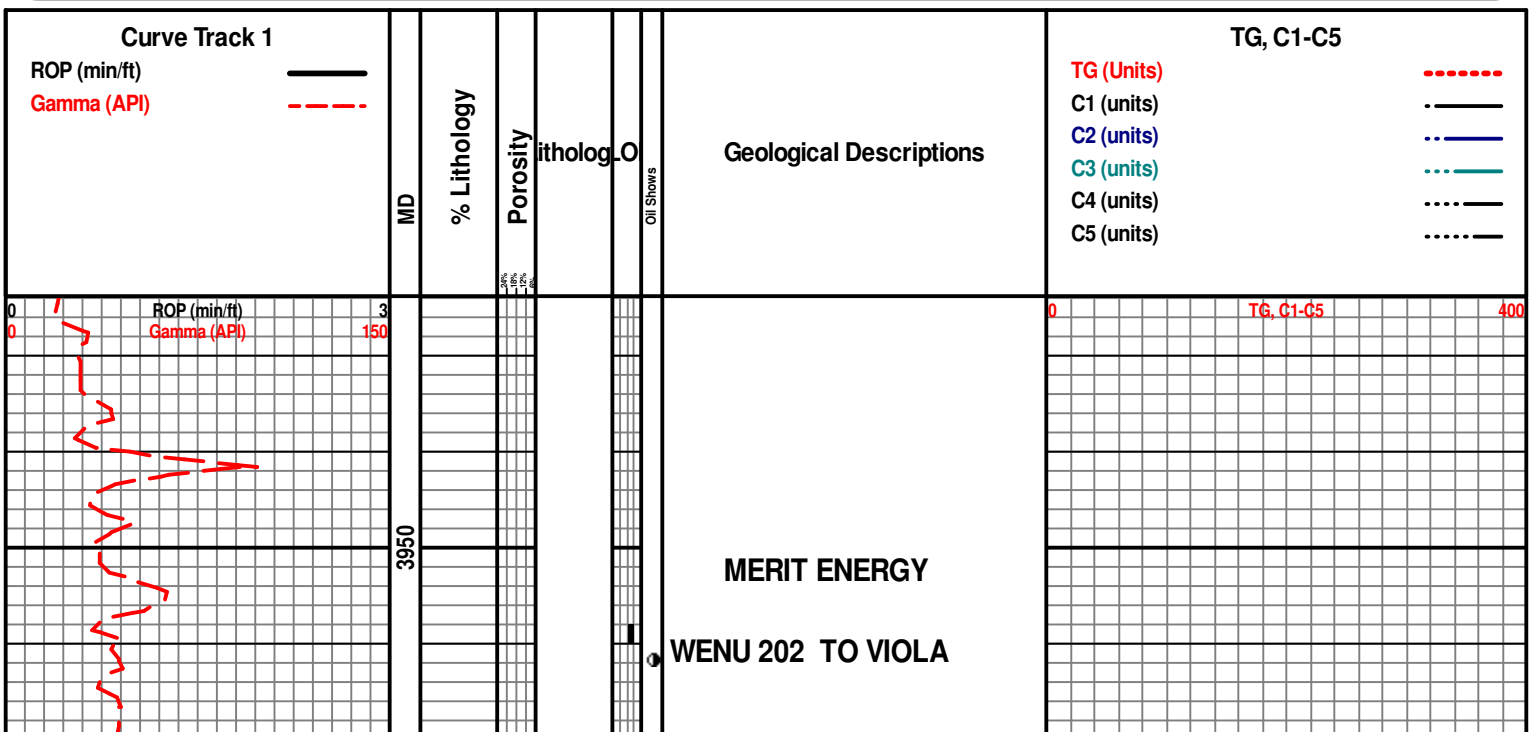
Company: MERIT ENERGY CO LLC
 Address: ATTN KRYSTIN ROBINSON GEOLOGY
 13727 NOEL RD STE 1200
 DALLAS, TEXAS 75240

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		Slstst-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 20		Slstst		Grn mott gy sh		Poor sortd ss
	Newdolo ls 2		Salt		Lmy sh-2		Snd-ls-sh
	Ls & ooids		Sndy sh--red		Shale-1		



ROP IS 8ft
DEEPER
THAN
GAMMA

ROP (min/ft)
Gamma (API)

WOB 22-24+
RPM 107/110
PP 2049/2099
SPM 101
GPM 497

ROP (min/ft)
Gamma (API)

DRLG W/PDC BIT # 2 SMITH MDI 616
6-15'S JETS 85/8 SFC 1789, START
ONEMAN DATA UNIT 4000 , A
GARNER, T FOWLER, MBC SAMPLES,

LS- GY OFF WHT TN, HRD DNS BRITT,
F-XLN, SUCRO TO CHLKY, TRS OF
FOSS FRAGS, PALE YEL MIN FLO, NO
VIS CUT OR SHOW

HBNR 4016' / -927'

TRNT 4032' / -943'

SH- FRM BLK CARB

LS- OFF WHT LT GY TO LT TN, HRD
DNS TO BRITT, F-XLN, SUCRO TO
V/CHLKY, OFF WHT CHRT, SNDY TXT
IP, DLL YEL MIN FLO, POSS PR
INTER-GRN POR, NO VIS CUT OR
SHOW, NO ODOR

F/LNSG 4072' / -983'

LS- GY OFF WHT TN TO MOTT, HRD
DNS TO BRITT, F-XLN, SUB-SUCRO TO
CHLKY, TRS OF GY TN CHRT SME W/
OOL, F/TRS OF QRTZ-XLS, TRS OF
OOL FR/SORTD, DLL YEL MIN FLO, PR
OOLICASTIC POR IP, NO VIS CUT OR
SHOW, FAINT GAS ODOR

SH- BLK CARB

LNSG 4122' / -1033'

LS- OFF WHT GY MOTT TN, HRD DNS
BRITT, F-XLN, CHLKY, POSS VF
MICRO-OOL, OFF WHT CHRT, CLR
QRTZ-XLS IP, DLL YEL MIN FLO, POSS
PR MICRO-PP POR, NO VIS CUT R
SHOW, FAINT ODOR

SH- GY DRK GY BLK, FRM BRITT TO
SFT. SMTH GRNY, BLKY TO PLTY

LS- TN GY OFF WHT MOTT, HRD DNS
BRITT, F-XLN TO M/F-OOL FR/PR
SORTD, SUCRO TO CHLKY, TN GY
CHRT, DLL YEL FLO, PR/FR
OOLICASTIC POR, NO VIS CUT OR
SHOW

LNSG B 4195' / -1106'

SH- GY DRK GY, CALC TO CARB

LS- OFF WHT TN TO GY, HRD DNS,
F-XLN, CHLKY, TRS OF FOSS FRAG,
TRS OF OOL PR-SORTD, TRS OF GY
CHRT, QRTX-XLS, SHLY IP, DLL YEL
MIN FLO, NO VIS POR, NO VIS CUT OR
SHOW, NO DET ODOR

LS- OFF WHT GY DRK GY TN TO MOTT,
HRD DNS BRITT, F/XLN TO TRS F-OOL
PR/FR SORTD SME SHADOW OOL,
CHLKY, GY OFF WHT CHRT, DLL YEL

TG, C1-C5

400

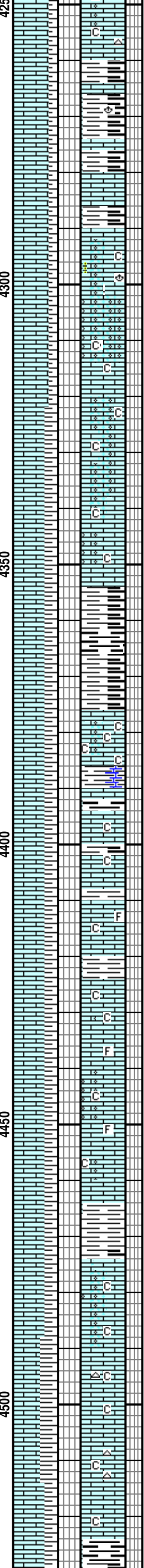
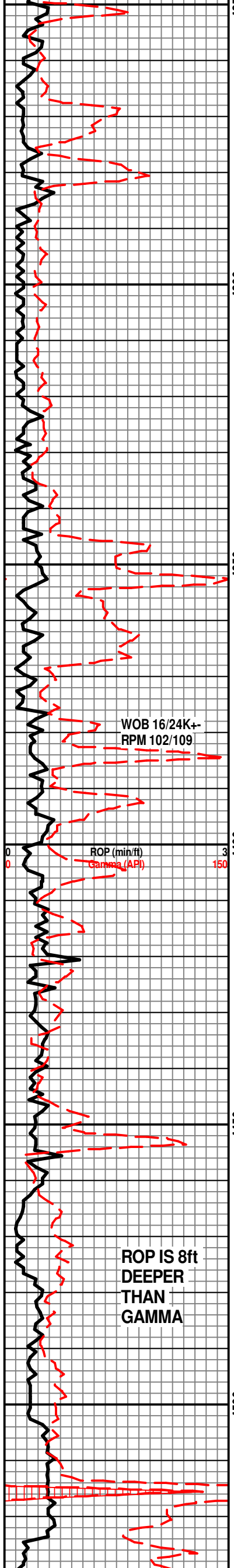
@RIGROOSTER
IR UNIT 3

MUD LEVEL
VARYING

RIG JETTING PITS
NO CONSTANT
MUDLEVEL

TG, C1-C5

400



CHLKY, GY OFF WHT CHRT, DLL YEL MIN FLO, TRS PR/FR OOLCASTIC POR, NO VIS CUT OR SHOW, NO ODOR

SH- GY DRK GY TO BLK, FRM BRITT, CALC TO CARB, GRNY TO SLI SILTY, TRS OF FOSS FRAGS

LNSG F 4282' / -1193'

LS- OFF WHT TN LT GY TO BUFF. HRD DNS TO BRITT, F/VF-XLN M/F-OOL PR SORTD TO SLI SNDY, SUCRO TO V/CHLKY, FOSS FRAGS, CALC GRNS, F/TRS OF QTRZ-XLS, DLL YEL MIN FLO, PR/FR OOLCASTIC TO PR MICRO VUG POR IP, NO VIS CUT OR SHOW, V/FAINT ODOR

LS- GY DRK GY OF WHT TO BUFF, HRD BRITT, VF-XLN M/F-OOL PR/FR SORTD, SUCRO TO CHLKY, TRS OF SHADOW OOL, YEL MIN FLO, PR/FR-OOLICAST TO VOG POR, NO VIS CUT OR SHOW, FAINT ODOR

MNCRK 4344' / -1255'

SH- GHY DRK GY TO BLK, FRM BRITT, SMTYH BLKY TO GRNY, SILTY IP, CALC TO CARB

LNSG G 4368' / -1297'

LS- CRM OFF WHT TO LT TN, HRD BRITT, F-XLN, CHLKY, F/TRS MICRO OOL PR SORTD, FOSS FRAGS, PALE DLL YEL MIN FLO, POSS PR MICRO-VUG TO PP POR, NO VIS CUT OR SHOW, NO DET ODOR

B DRUM 4391' / -1302'

LS- GY TN OFF WHT TO MOTT, HRD BRITT, F/VF-XLN, SUCRO TO CHLKY, F/TRS OF FOSS FRAGS, DLL PALE YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

LS- OFF WHT GY TN, HRD DNS TO BRITT, F-XLN, SUCRO TO CHLKY, TN CHRT, TRS OF FOSS FRAGS, TRS OF PR/FR SORTD OOL MOSTLY SCATT W/ SME SHADOW IP, YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

DENNIS 4455' / -1366'

GY DRK GY BLK, FRM BRITT, BLKY GRNY CALC, FOSS FRAGS, CARBY IP

LS- TN GY OFF WHT MOTT, HRD DNS BRITT, F/VF-XLN, SUB-SUCRO TO V/CHLKY, TRS OF M/F-OOL PR SORTD SME SHADOW, TRS OF TN BRN CHRT, DLL YEL MIN FLO, POSS PR OOLICAST POR, NO VIS CUT OR SHOW

STRK SH 4514' / -1425'

SH- GY DRK GY TO BLK, FRM BLK CARR. PTY

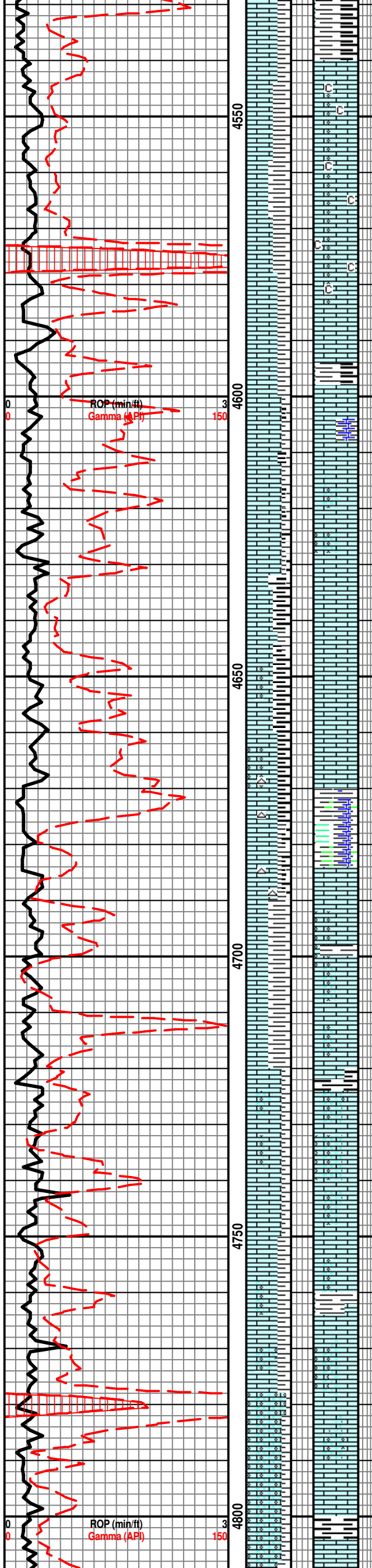
WOB 16/24K+ RPM 102/109

ROP (min/ft)
Gamma (API)

ROP IS 8ft DEEPER THAN GAMMA

TG, C1-C5

400



SWOPE 4532' / -1425'

LS- GY OFF WHT TN MOTT, HRD DNS TO BRITT, F/VF-XLN TO M/F TO MICRO-OOL. GRNS PR/FR SORTD IN CHLK, V/CHLKY, DLL BLU/YEL FLO IP TO DLL YEL MIN FLO, POSS PR MICRO VUG TO PR OOLICASTIC POR, NO VIS CUT OR SHOW

HUSH SH 4572' / -1484'

SH- GY DRK GY TO BLK, CARB, MICRO PYR

HERTHA LS 4585' / -1497'

EXLINE LS 4620' / -1531'

LS; CRM WEH CHLKY W/F-GY PELL & SPKS, TRASHY SHDW VF HEAVY COATAED OOL N/O, PUYRPL MFNSOIC

LS; GY TN HD DNS XLN, SLI SHLY FRAC, COMNGLD CHLK & CHLK EDGES N/O, MFNSOC

PLSNT SH 4660' / -1572'

SH DULL DK GY BLK, ABDT LT GRN VF CALCITIC, PYR, MICA, BLK SH INTRUSS

MARM GRP 4676' / -1587'

LS; GYISH WH WH, P/SSRTD BIOSPARITIC/F-OOL, TR WH CHLKY F OOL & OOLCAS, TR CHOR LT PURPL SCATT YEL MIN FLOR NSOC N/O

BLK CARBY SH

LS; LT CRM BUFF WEATHDAPPR, IP, P-SRTD BIOSPARITIC & SME OOL, PYR, SME GY PELL, MFNSOC N/O

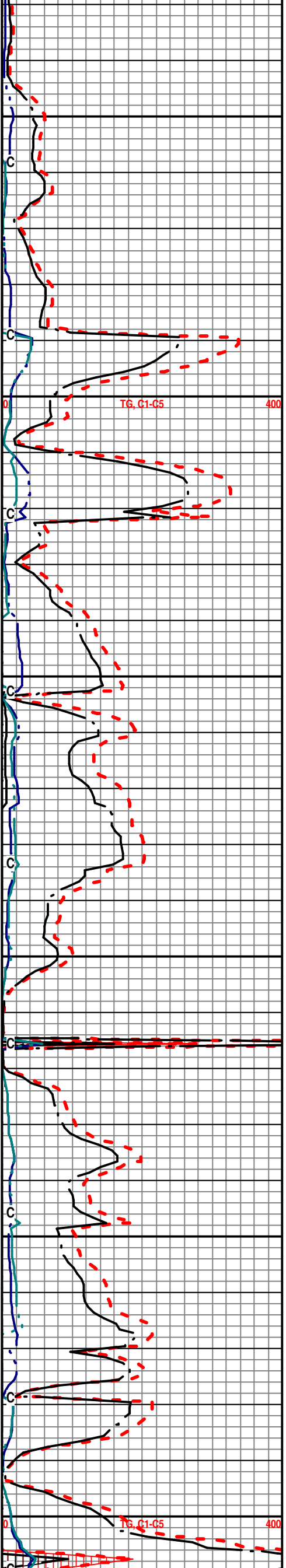
LS; SME TN BRTL P/SRTD VF F OOL, HEAVY COATED,, ELIP IP, CHJLKY MFNSOC N/O

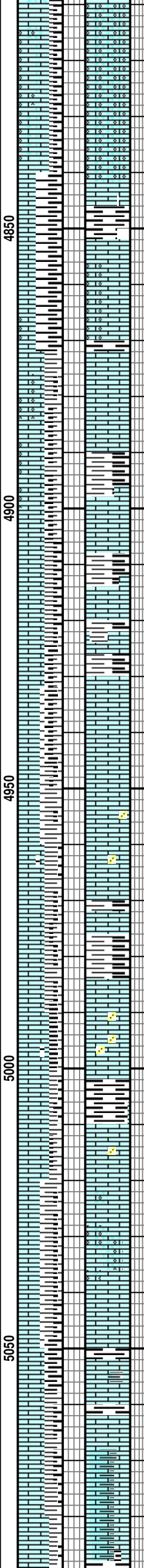
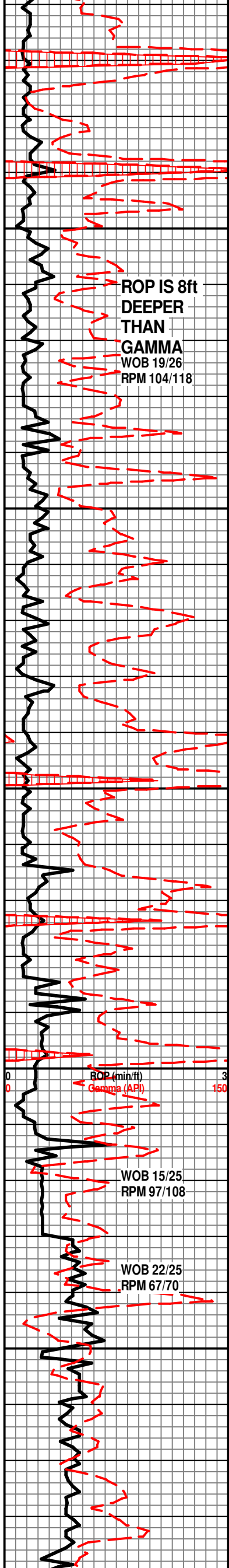
BNDRA SH 4776' / -1687'

PAWNEE 4784' / -1695'

LS; LT BUFF WH P/SRTD F-OOL, W/BLK SH CNTR I.P., THJIN RIM COAT, FOSS FRGS, NO PURPL FLOR NSOC

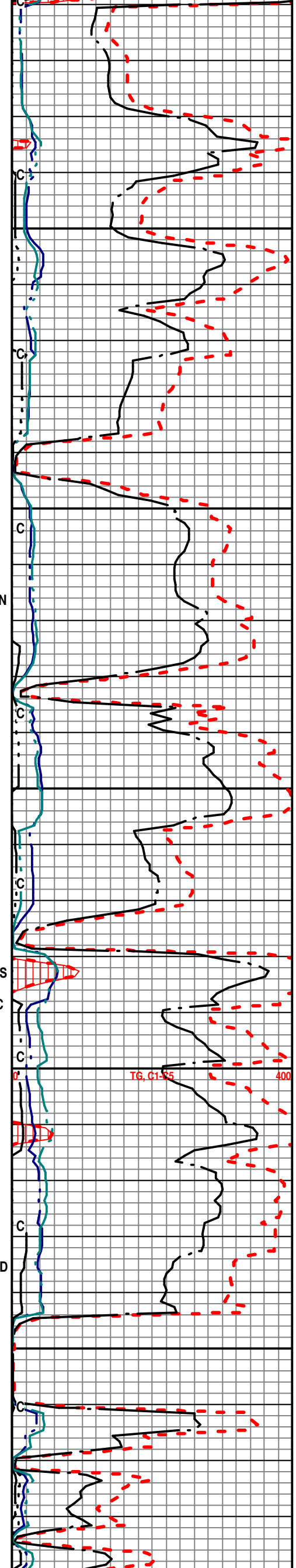
BLK CARB SH

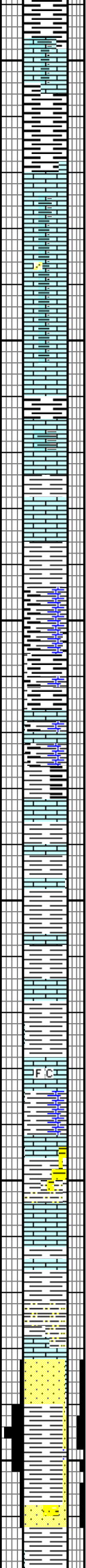
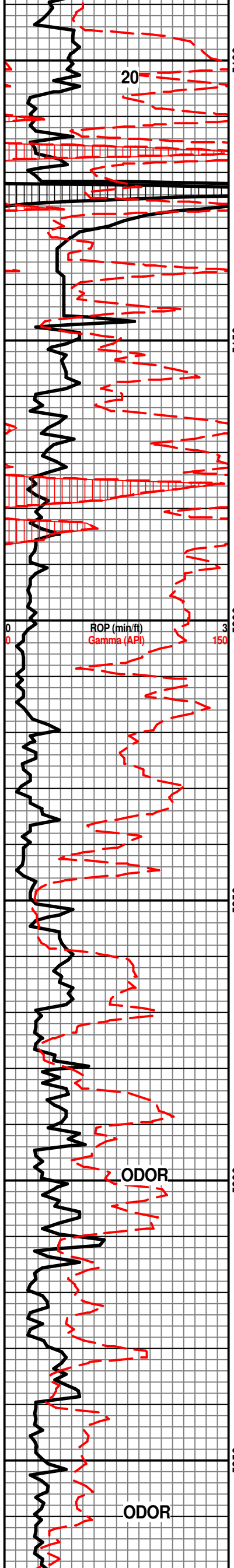




LABELLE 4813' / -1724'
 LS; WH CRM TNM VF OOL, TN PELL IP, SME S CHLKY F-OOL, SME P/SRTD VF F OOL W/SH CNTR, SME SPAR CMTD, N/O, PURPL TO FNT GOLD MFNSOC

CHEROKEE 4841' / -1752'
 BLK CARB SH SME V/DK GY W/CRIN
 LS; LT TN BUFF, WH OOL & FOSS, DEBRIS, S-CHLKY IP SME BIOSPARITIC N/O LT PURPL TO FNT GOLD MFNSOC
 BLK DK GY CARB SH
 LS; TN HD DNS FOSS DETRIT, COMNGD GY VF SUCROISIC
VRDGS 4887' / -1798'
 BLK CARBY SH
 LS; TR CRM F-OOL, LAM ON CRS CRIN, PR ED GY TN HD DNS SHLY XLN NO SHOW
 BLK CARB SH
 LS; LT CRM TN BRTL CHLKY VF OOL, IP, DK TN INTBD HD DNS XLN, INTBD GY DK GY SME BLK CARB SH, MICA
 LS; GY TN HD DNS XLN LSHLYT FOSS TUBES, FLAKY FRAC, IP, SME CHLKY EDGES W/MICRO QTZ, N/O MFNSOC
 BLK CARB SH
ATKN GRP 5016' / -1927'
 LS; WH MOTT TN VF OOL IP, THIN COAT TR SHDW F OOL, HEAVY COATED, TR GAS BUBL, V/FAINT GOLD FLOR V/SLO STHIN MILKY CUT N/O
 BLK CARB SH
 LS; DIRTY GY SHLY FOSS XLN, NO SHOW
 BLK CARB SH





ATOKA SH 5096' / -2007'

LS; DK & LT GY HD XLN SHLY

SH; BLK CARB

LS; CRM MOTT GY HD DNS SHLY XLN, W/CRM CHLK LENS & LAM, N/O MFNSOC

LS; DK GY HD XLN SHLY PYR TR DK BRN CYPTO XLN NO SHOW

MRRW GRP 5157' / -2068'

SH BLK FOSS CARBY, INTBD LS

LS; CRM, CHLKY P/SRSTD FOSS FRGRTL

SH; LT GY, V/SLI GRN SMIT RGH TXT, PYR, ABTD DK GY BLK SH

SH- SFT BLK CARB PYR

SH- GY DRK GY BLK, FRM SFT, SILTY CALC, PYR, CARBY

M MRRW LM 5246' / -2157'

SH- GY DKGY BLK, GRNISH, FRM SFT BRITT, SILTY, CALC IP, FOSS FRAGS, PYR

LS- CRM GY MOTT, HRD BRITT, F-XLN, CHLKY, FOSS FRAGS, DLL YEL MIN FLO, POSS POR INTER-FOSS TO MICRO-PP POR, WEAK MILKY BLU FLUSH CUT, FAINT ODOR

M MRRW SS 5284' / -2195'

SH; GRN TO GY ABTD GLAU, SME SLTY SNDY

SH- GY DRK GY BLK, FRM BRITT, PYR, CALC, SILTY, CARBY, FOSS FRAGS

DK GY HD TT VF GR SS, LAM BLK SH, INTBD SH W/ CRIN

UPR WEEN U 5332' / -2243'

SS- TN BRN GY OFF WHT, TT TO FRI, F/VF-QRTZ GRNS, SUB RND TO SUB ANG, SILC CMNT, DIRTY SILTY APPR, DISS BLCK SH IP, V/FAINT DLL YEL FLO, PR INTER-GRN POR, FAST MILKY BLU FLUSH TO SLO STREAM CUT, POSS OIL STAINED, V/FAINT ODOR

LWR WEEN U 5361' / -2272'

SH- FLAT GY TO GRN, FRM SFT,

COMPUTER
GLITCHED NO
GAS READINGS,
ROP IS FROM
PASON FROM
5122 TO 5147

C

C

C

C

C

C

C

C

ROP (min/ft)
Gamma (API)

150

TG, C1-C5

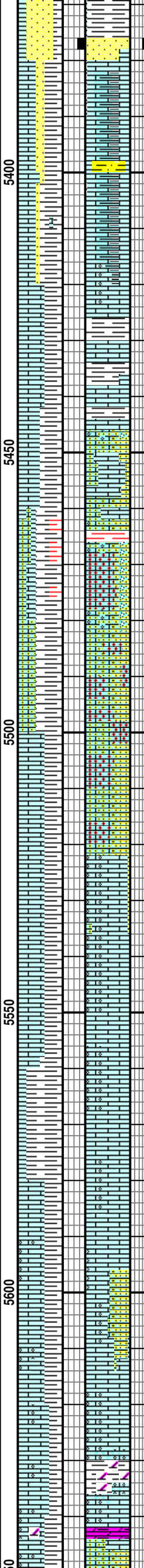
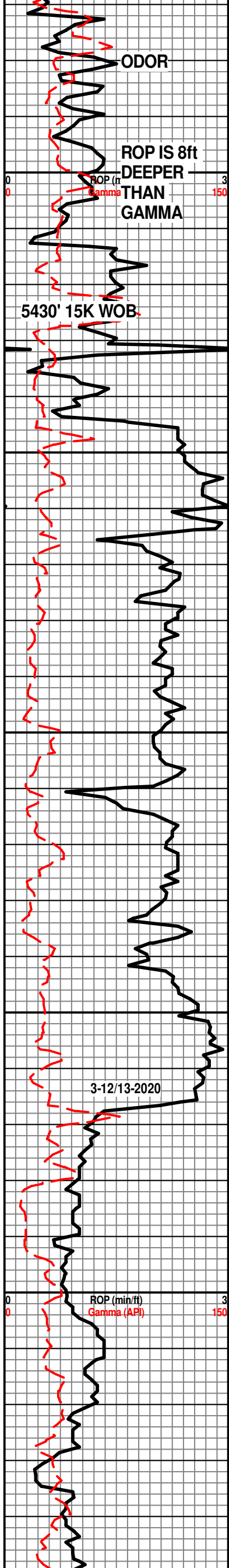
400

20

ODOR

ODOR

F.C.



SOAPY, CALC
TR SS; V/LT BRN TO GY VF GR, V/SLI CALC, BLK FLOR, SLI RING CUT

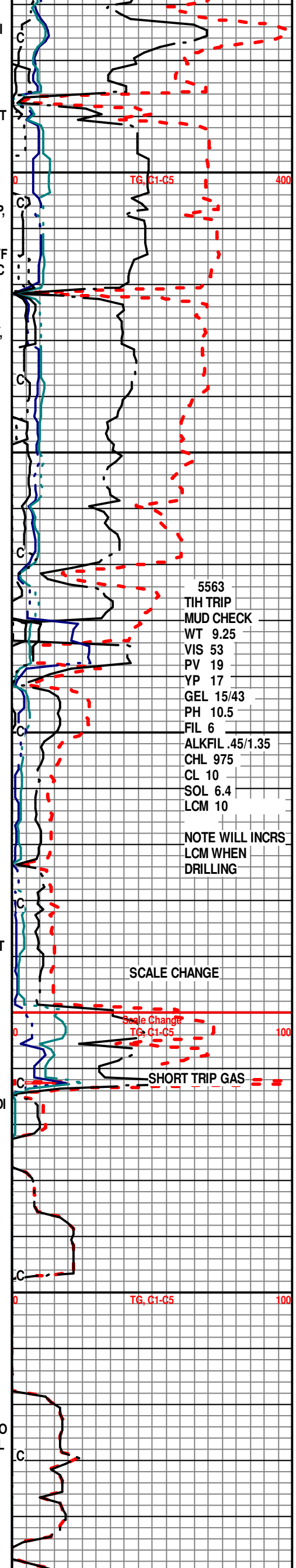
CSTR LM 5379' / -2290'
LS; MOUSE GY GY HD V/SHLY, ABDT LT GRN SH
TR LT GRN OFF WH VF GR LMY GLAU, NFSOC
LS; MOUSE GY LT GY SHLY, ERTY IP,
LS; LT MOTT CRM/WH, GY-TN SHW VF OOL, V-SHLY, N/O FNT GOLD MFNSOC

B CSTR LM 5422' / -2333'
SH; LT GY SLI GRN, FLAKEY-PLATY, FOSS DEBRIS, PYR, SME BLK WAXY

ST GEN 5437' / -2348'
LS; CRM TR YEL, SME OFF WH VF AREN IP, N/O MFNSOC
MAROON SME RED SH
LT REDISH WH VF AREN LS
LS; OFF WH SLI CRM, V/LT REDISH TINGE VF AREN & VF HEAVY COATED OOL GRNS
LS; CRMWH CHLKY SME OOL, SME WEATHD CORAL N/O PURPL SME FNT GOLD MFNSOC

STLS 5532' / -2443'
LS; LT BUFF OFF WH, CRM, F-OOL, HEAVY COATED, CHLKY TR GLAU OR CHOR ABDT CRM WH CHLK MED PURPL MFNSOC N/O

ST LOUIS "D" 5620-2531ss
LS; TN HD DNS F-UPR F-OOL, XLN TO CRM BUFF CHLKY F-TO LWR MED OOL IN CHLK, N/O, SME WEAK YEL MFNSOC
TR LT GYISH DOLOMITIC SH
LS; SLI CRM TINT, TN FRAC XLN,



CTCH, SHORT TRIP, CTCH BIT TRIP 5563, LOST 440+- BHA ON BIT TRIP, RUN IN SCREW INTO, TOH, NB # 3 MDI 613 6-15'S, TIH DRILL OB DRLD 3764 IN 47.25 hrs AVG .75mpf

3-12/13-2020

WOB 19-22K
RPM 82
PP 1950/2000
SPM 95

5700

5750

5800

5850

5900

ROP (min/ft)
Gamma (API)

ROP IS 8ft
DEEPER
THAN
GAMMA

FOSS SHLTR-OOL, SMETR QTZ, N/O
DK PURPL SCATT FNT GOLD MFNSOC

LS; GY TN H DNS FLKY FRAC, SHDW
OOL & FOSS, SME SPICULES, TR
OOL CHT, COMNLGD CHTY LS IP, N/O,
DK PURPL FLOR NSOC

TR OFF WH GRITTY POWDERY ANHY

LS; DK TO MED TN HD CRYP XLN,
CHLK EDGES IP,

SPRGN 5698' / -2609'

DK BRN DOLO, TR LT BUFF
F-XTL, CRS VUT POR, SHDW OOL,
SUGARY XTLS MATRX, N/O V/FNT
GOLD FLOR, NSOC

DOLO & DOLOM LS, DK TN SLI GY HD
CRYP XLN FRAC, GYISH SFT W/
P-SRTD SH MATL & PELL IP, SCATT
FRA OPAQ CHT, IP, N/O DK PURPL SME
FNT GOLD MFNSOC N/O DK PURPL

DOLO; V/DK TN HD XN SHDW FOSS,
SME OOL, IP, TR DOLOMT LS, FREE
CRS TO PBV OPAQ DOLO XTLS,
SCATT CLR CHT, SME SH PELL, TR
MED BUFF VF SUGARY, N/O, PEUPL
TO NT GOLD MFNSOC

DOLO LS- OFF WHTGY TN, HRD DNSTO
BRITT, F/VF-XLN, SUCRO TO CHLKY IP,
TRS OF GY OFF WHTTO LT TN CHRT,
DLL PALE YEL MIN FLO, POSS PR
INTER-GRN POR IP, NO VIS CUT OR
SHOW

WRSW 5805' / -2717'

DOLO LS- CRM OFF WH GRITTY RGH
TXT, CHLKY, SME VIS OOL, VUGGY
POR, SME COMGLD VIT OFF WHT TO
TN CHT, N/O WEAK GOLD FLOR NSOC

LS- CRM LGY GY TO LT TN, HRD DNS
TO BRITT, F-XLN. CHLKY, F/TRS OF
OOL, OFF WHT TO LT TN CHRT, DLL
YEL MIN FLO, NO VIS POR, NO VIS
CUT OR SHOW

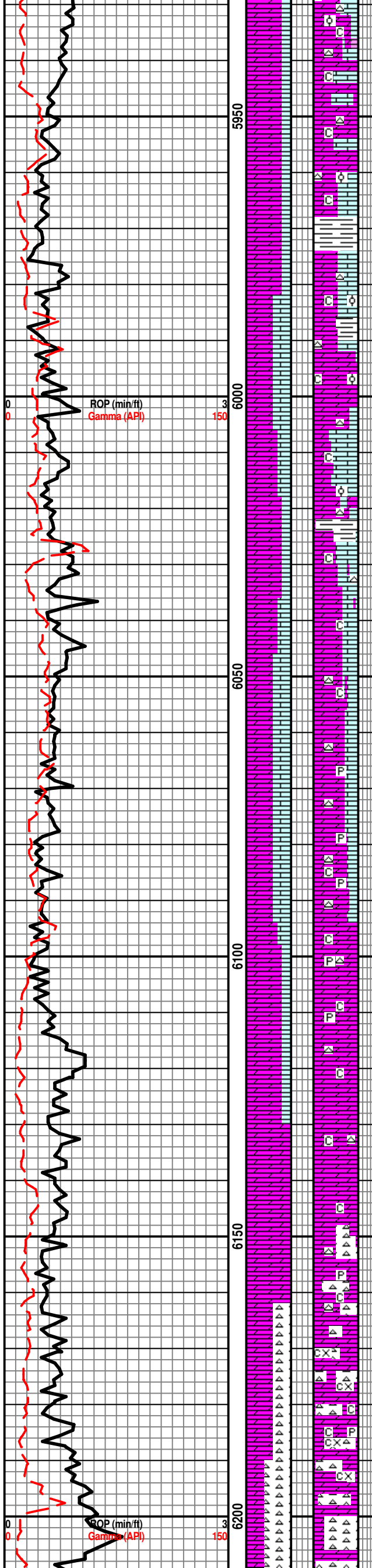
DOLO LS- CRM OFF WHT TO SLI MOTT,
F/VF-XLN TO RE-XLN, SUCRO TO
CHLKY, TRS OF QRTZ-XLS IP, TRS OF
OFF WHT CHLKY, TRS OFF OOL, DLL
YEL MIN FLO, NO VIS POR OR SHOW,
FISHY ODOR

DOLO LS- OFF WHT GY LT TN TO
MOTT, HRD DNS TO BRITT, F-XLN TO
RE-XLN, SUCRO TO CHLKY, F/TRS OF
QRTZ-XLS, LT TN CHRT, SCATT OOL
SME SHADOW PR SORTD, PALE DLL
YEL MIN FLO, POSS PR INTER-GRN
POR, NO VIS CUT OR SHOW

TG, C1-C5

100

RE-ZERO IR UNIT
IN TRAILER



DOLO LS- CRM OFF WHT GY TO MOTT, HRD BRITT, VF-XLN TO RE-XLN, SCURO TO V/CHLKY, DECREASED SCATT OOL. V/FEW TRS OF TN CHRT, V/PALE DLL YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW

SH- GY GRN, FRM SFT, SOAPY

OSAGE 5985' / -2896'

DOLO LS- GY OFF WHT, HRD BRITT, F-XLN SUCRO TO CHLKY, F/TRS OF OOL IN CHLKY MTX SME MICRO-OOL, NOTICABLY LESS CHRT, DLL TO NO VIS FLO, POSS PR/FR VUGGY POR IP, NO VIS CUT OR SHOW, F/TRS OF RHOMBS

DOLO LS- GY OFF WHT TN TO MOTT, HRD BRITT, F/VF-XLN, SUCRO TO CHLKY, F/TRS OF GY CHRT SME OOLITIC, INCR LS CONTENT, SPOTTY DLL YEL MIN FLO, NO VIS POR, TRS OF GY DRK GY SH IP, NO VIS CUT OR SHOW

DOLO- CRM OFF WHT LT GY TO LT TN IP, HRD BRITT, F-VF-XLN, SUCRO TO CHLKY, F/TRS GY OFF WHT CHRT SME W/ SPICULES, V/DLL YEL FLO IP, POSS PR INTER-GRN TO PR/FR MICRO VUG POR, NO VIS CUT OR SHOW

DOLO LS- CRM OFF WHT LT GY TO LT TN IP, HRD BRITT, F-VF-XLN, SUCRO TO CHLKY, AHREN/SNDY IP, F/TRS GY OFF WHT CHRT, IMBD PYR IP, V/DLL YEL FLO IP, POSS PR INTER-GRN TO PR/FR MICRO VUG POR, NO VIS CUT OR SHOW

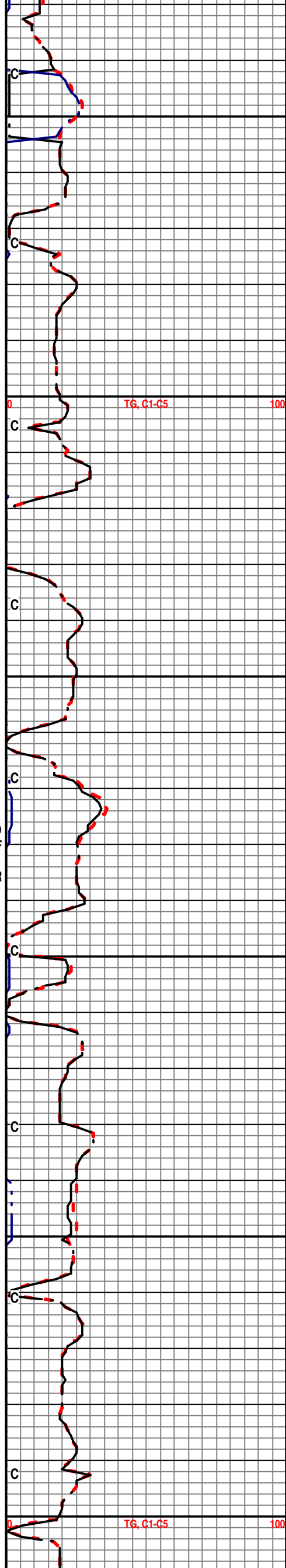
DOLO- CRM OFF WHT GY TO LT TN, HRD DNS BRITT, F-VF-XLN, SUCRO TO CHLKY, TRS OF PYR, TN OFF WHT CHRT, V/DLL YEL FLO IP, POSS PR INTER-GRN TO PR MICRO VUG POR IP, NO VIS CUT OR SHOW

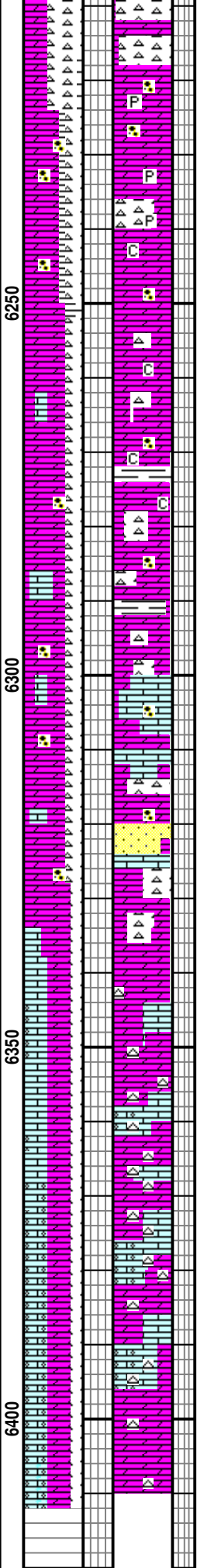
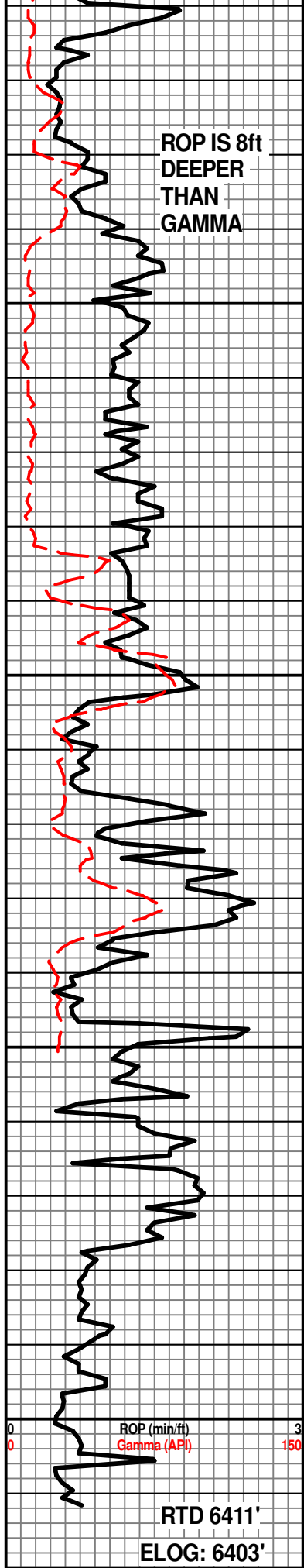
DOLO- OFF WHT LT GY IP, HRD BRITT, F-XLN TO GRNY AHREN IP, SUCRO TO CHLKY, OFF WHT TN GY CHRT, V/DLL YEL FLO IP, POSS PR INTER-GRN TO PR MICRO VUG POR IP, NO VIS CUT OR SHOW, NO ODOR

DOLO- CRM OFF WHT LT GY LT TN, HRD DNS TO SEMI BRITT, F-VF-XLN TO RE-XLN MTX, SUCRO TO SUB- CHLKY, ABNDT CRM OFF WHT TO CLR SEMI-OPAQ TO VIT CHRT SME W/ SPOTS IP, TRS OF QRTZ-XLS, SPOTTY DLL YEL FLO, PR INTER-GRN TO FR XLN POR, NO VIS CUT OR SHOW

DOLO LS- CRM OFF WHT TN, HRD DNS TO BRITT, F-VF-XLN TO RE-XLN MTX, SUCRO TO CHLKY, ABNDT CRM OFF WHT TN TO BRN VIT TO CLR CHRT MOTT TO SPOTS IP, TRS OF QRTZ-XLS, DLL PALE YEL FLO IP, POSS PR VUG POR TO PR INTER-XLN POR, NO VIS CUT OR SHOW

KDHK GRP 6198' / -3109'





DOLO SME DOLOM LS, PRED OPAQ WH TR V/LT ORNG TINT, HD DNS VF F XTL, TR TN CRYP XLN VF DIVIDED, ABDST VIT TO TRIPOLITIC CHT W/IMBD DEBRIS, TR SPICULES, WH CRS RHOMBS FREE, TR CLR RD SILIC CMTED QTZ CLSTR, N/O, DK PURPL SME PALE YEL WH FMFSOC

FREE PBLY CLR TO OPAQ DOLO XTLS COMNGLD CLR QTZ

DOLO; LT OPA WH, SLI BRN, F TO VF XTL, VUGGY POR, WH CHLK, WH TRIP CHT W/FOSS DEBRIS, ABDT WHL OFF WH POOR SORTED TN MOTT SEMIT RIP CHT, YEL GRNISH MFNSOC N/O

DK GY BLK SH W/PYR COMNGL W/DOLO

SME DK TO LT TN LS W/SHDW OOL & FOSS DEBRIS, PRED TN LT TN BRTL TO HD DNS VF F XLN DOLO, INTR XLN POR, TR VUG, WEAK YELSLI GRN MFNSOC N/O

WH VIT TO SEMI VIT CONCORD FAC CHT W/FOSS DEBRIS NO SHOW

SS; OFF WH VF GR RD TO S-RD CLR, ABDT GLAU, & DK BRN PELL, NO SHOW

VIOLA 6334' / -3245'

DOLO, & DOLOMITIC LS LT BUFF WEATHD APPR, DULL LUSTRE, OOL & SME FOSS DEBRIS, MICRO SHDW OOL W/MICRO QTZ CNTR, VIT TO TRIP CHT CONCORD FRAC W/ IMBDS FOSS TR IMBDF-OOL, PURPL SME WEAK YEL MFNSOC N/O

LS; & DOLOMITIC LS, LT BUFF SME F-OOL, W/ PYR, COMNGLD CHT TO BRN VF SUGARY DOLO, IMBDS CLR VIT FLAT CHT FLAAKES PURPL FLOR NSOC N/O

THANKS FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER
& TROY FOWLER

