

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](mailto: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	CORA 1-16
Doc ID	1515142

All Electric Logs Run

BOREHOLE COMPENSATED SONIC 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	CORA 1-16
Doc ID	1515142

Tops

Name	Top	Datum
HEEBNER	3857	.
TORONTO	3873	.
LANSING	3953	.
IOLA	4085	.
SWOPE	4269	.
HERTHA	4322	.
MARMATON	4439	.
PAWNEE	4530	.
CHEROKEE	4580	.
ATOKA	4679	.
MORROW	4782	.
MORROW BASE	4831	.
MORROW LIME	4841	.
CHESTER	4863	.
ST GENEVIEVE	4875	.



# MBC WELL LOGGING LLC

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

Well Name: CORA 1-16 AFE 65113 MERIT ENERGY CO LLC  
 Well Id: API 15-055-22533-00-00  
 Location: FINNEY COUNTY, KANSAS USA  
 License Number: 32446  
 Spud Date: 2-24-2020  
 Surface Coordinates: 1334'fwl- 2512'fml-SEC 16-T24S-R33W  
 Bottom Hole Coordinates: STEP -DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'  
 Ground Elevation (ft): 2863 K.B. Elevation (ft): 2875  
 Logged Interval (ft): 3750 To: 5005 Total Depth (ft): Elog 5004'  
 Formation: ST LOUIS  
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630  
 Region: COWGILL  
 Drilling Completed: 02/28/2020

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

## OPERATOR

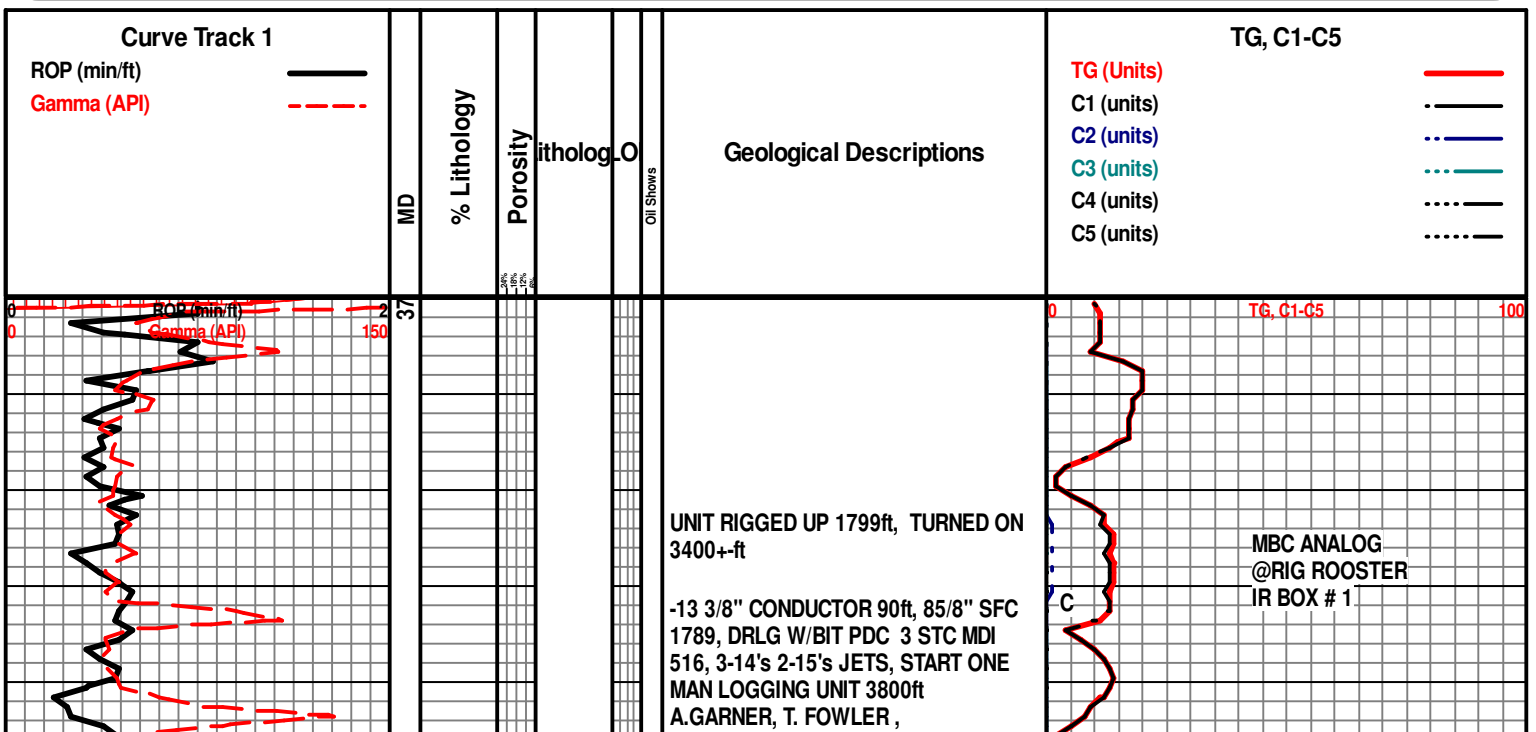
Company: MERIT ENERGY CO LLC  
 Address: ATTN MARTIN LANGE GEOLOGY  
 13727 NOEL RD STE 1200 TOWER TWO  
 DALLAS, TEXAS 75240

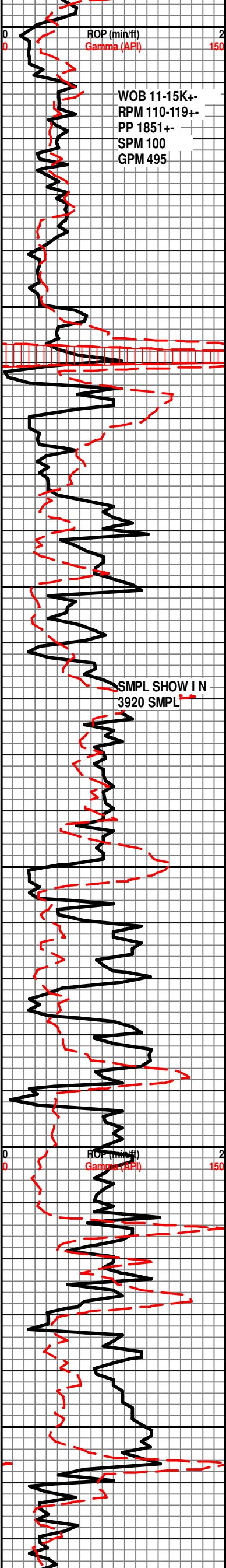
## MUDLOGGER

Name: AUSTIN GARNER//TROY FOWLER  
 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		Slst-1		Stgensndy-arkos
	Cht		New ls-1		Slty-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		Slst		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 (min/ft)  
Gamma (API)

WOB 11-15K+  
RPM 110-119+  
PP 1851+  
SPM 100  
GPM 495

SMPL SHOW I N  
3920 SMPL

ROP (min/ft)  
Gamma (API)

MBC SAMPLE HANDS

**DEV 3807 2\* AZI 301.1**

LS; BRNISH GRITTY S-CHKLKY,  
MICRO OOL, IP, SME MICRO QTZ, B  
RN SCATT CSARB MATL, PURPL TO DK  
AMBER MFNSOC N/O

ALL TOPS ARE E-LOG TOPS

**HEEBNER 3857-982ss**

SH; BLK BLKLY TO PLATY CARB

**TORONTO 3873-998ss**

LS; BUFF HD DFNS VF  
BIOSPARWITIC//VFOOL, PYR N/O  
MFNSOC

LS; WH SFT CHLKY DETRIT, LT BRN  
SPLSOTCH STNG IP, BRITE YEL FLOR,  
SLO MILKY STGRM CUT, N/O

SH; MED GY HD CALC

**DEV 3900 2.1\* 305.1**

+  
LS; CRM WH WEATHD APPR, SME VF,  
F ELIP TO RD THIN RIM COAT  
SHALLOW OOLCAS LAM TO OOL, SME  
FOSS SHLTR, SPAREITIC IP, CLR VIT  
CHT, N/O. PURPL TO YEL FLOR NSOC

SH; GY DK GY HD LMY

**LANS GRP 3953-1078ss**

LS; LT TN SME W/GY SH INTRUS & VF  
F OOL, CHLK FILL OOL, SPARITIC IP,  
PURPL TO YEO WH MFNSOC N/O

**DEV 3992 2.4\* 302.1**

LS; LT TN OFF WH HD XLN INTBD DK  
GY FOSS HASH SH

LS; DK BRN BRN HD XLN TR TN OOL,  
N/O, MFNSOC

SH; DK BRN/BLK, CARB TO BLK-GY

**IOILA 4085-1210ss**

TR (1) PCE PALE TN P/SRTD VF

TG, C1-C5

100

CLNING #1  
SANDTRAP

JET PITS CLN  
SUCTION 3937

LOWER  
EXTRACTOR

ADJUST  
EXTREACTOR UP

TG, C1-C5

100

BIOSPARITIC/OOL, N/O, MFNSOC

**DEV 4087 3\* AZI 308.1**

LS; LT TN CRM VF F OOL, SME FOSS, CHLKY INTR FILL, ABDT CRM WH CHLK, N/O, PURPL SME FAINT GOLD MFNSOC

LS; LT TN HD DNS SSPARRY XLN, SME W/ TN F-OOL PELL, V/CHLKY, N/O PURPL SME GOLD MFNSOC

GRN SME GY CALC SH

**DRUM 4150-1275ss**

LS; GYISH TN, TN HD XLN, SHDW OOL & TRACE-FOSS, IP, GY TN VIT CHT, TR PALE GYWH VF SUCROS W/GY PELL MFNSOC

**DEV 4181 2.96\* AZI 3.9.1**

SH; GYISH MICRO FOSS LMY

LS; V/LT CRM TN HDE DNS XLN SME CRS CRINIODAL HASH

LS; GYISH WH CRM CHLKY, SME SHDW TRASHY OOL & FOSS, GY VITY CHT, MFNSOC

LS; LT TN VF SUGASRY SPARITIC VF F OOLCAS & OIDS, V/THIN RIM COAT, SME F-OOL W/GY SH CNTR, N/O MFNSOC

**STARK SH 4262-1387ss**

**SWOPE 4269-1394ss**  
LS; DK TN BRN SPARRY VF F OOL, & OOLCAS, V/STINKY SOUR ODOR, DK PURPL SME GOLD, TR MED YEL MFNSOC

**DEV 4275 3.2\* AZI 311.1**

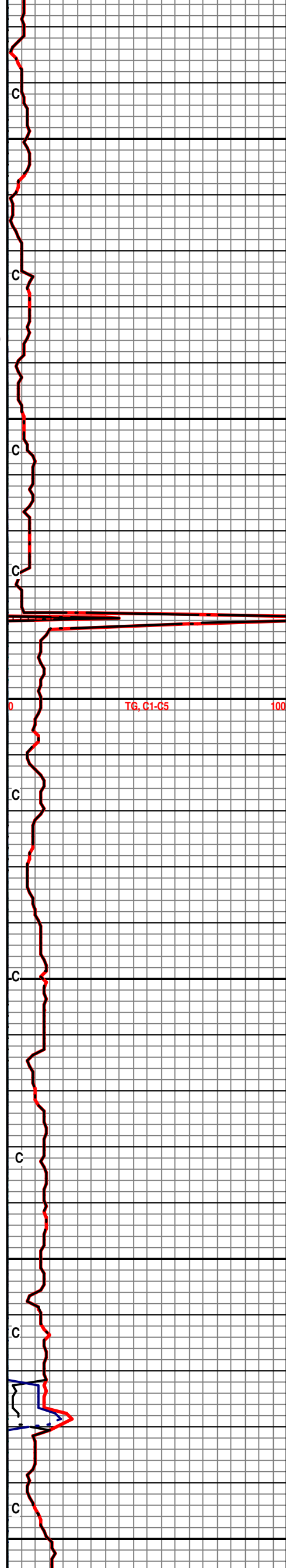
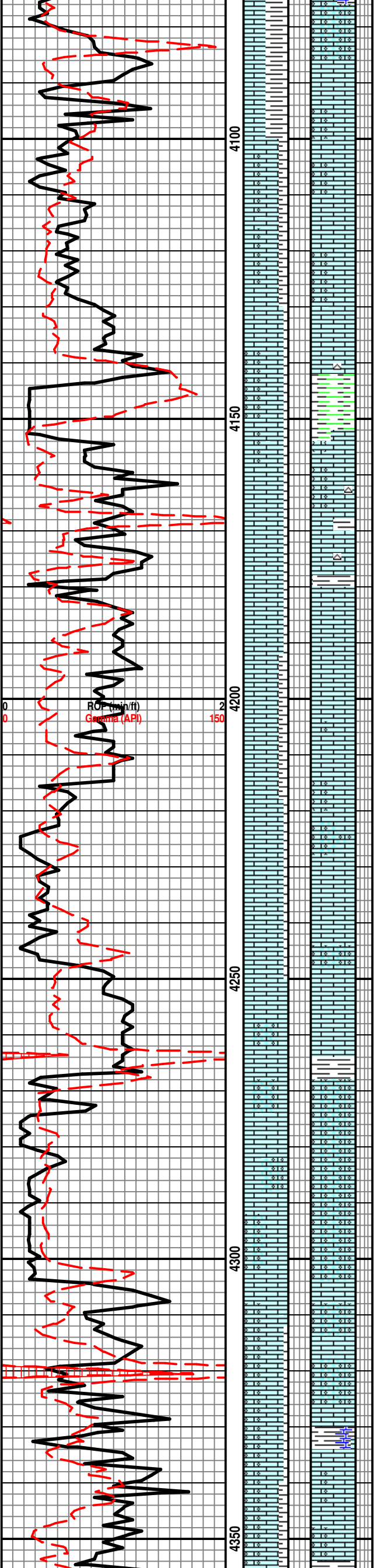
LS; LT TN SPARITIC, P/SRTD VF TO UPR FINE THIN RIM COATED OOLCAS, IMBD VF F OIDS, CRM WH CHLK, N/O, SCATT PALE YEL PRED POURPL MFNSOC

**LSHP SH 4318-1443ss**

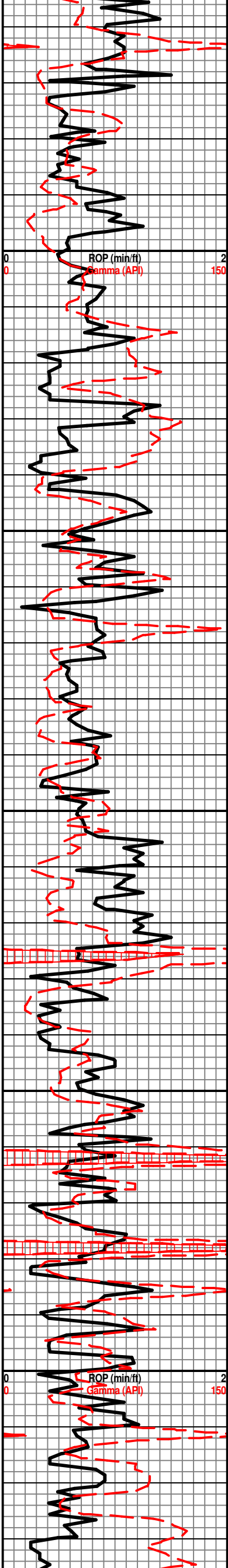
**HERTHA 4322-1447ss**

SH; LT TO DK GY RGH TXT LMY

TN HD DNS XLN LS W/SHDW FOSS & OOL, TR CHOR, N/O, SMFNSOC







**DEV 4370 3\* AZI 315.1**

**EXLINE 4361-1486ss**

LS; V/LT TN XLN TR MED ANG XLN, CHLK EDGES & COMGLD, ABDT GEL BALLS NO SHOW

LS; LT MOTT GY TN HD XLN INCRS LT BUFF SPARRY VF F OOL, HEAVY COATEDS GRNS, ABDT CHLK & GEL, N/O, FAINT GOLD PRED PURPL MFNSOSC

**PLSNT SH 4418-1543ss**

SH; GY LT GY SME VF CALCITIC TR LT GRN VF CALCITIC

**DEV 4464 3\* AZI 313.1**

**MARMATON 4439-1564ss**

**MRMCP1 4454-1579ss**

LS- OFF WHT TN GY TO MOTT, HRD DNS TO BRITT, F-XLN, SUCRO TO CHLKY, OOL PR/FR, TN GY CHRT SME W/ OOL, FOSS FRAGS, DLL YEL MIN FLO, POSS PR OOLICASTIC POR, NO VIS CUT OR SHOW, NO ODOR

LS- CRM OFF WHT TO LT TN, HRD BRITT, SUB-SUCRO TO SLI CHLKY, TRS OF OOL PR SORTD F/TRS OF FOSS FRAGS, SHLY IP, YEL MIN FLO, PR/FR OOLICASTIC TO PR VUG POR, NO VIS CUT OR SHOW, NO ODOR

**MRMN C 4492-1617ss**

LS- GY TN OFF WHT. HRD TO BRITT, F-XLN TO PR SORTD M/F-OOL, SUB-CHLKY, FOSS FRAGS, DLL PALE YEL FLO, POSS PR INTER-FOSS POR, NO VIS CUT OR SHOW

**PAWNEE 4530' / -1655ss**

SH- SFT BLK CARB

LS- OFF WHT LT TN, HRD DNS TO BRITT, F/VF-XLN TO M/F OOL, V/CHLKY, ABNDT SFT OFF WHT CHLK, TN GY CHRT W/ OOL IP, DLL YEL MIN TO PALE YEL FLO, POSS PR INTER-OOL POR, NO VIS CUT OR SHOW, NO ODOR

**DEV 4560 3.2\* AZI 313.1**

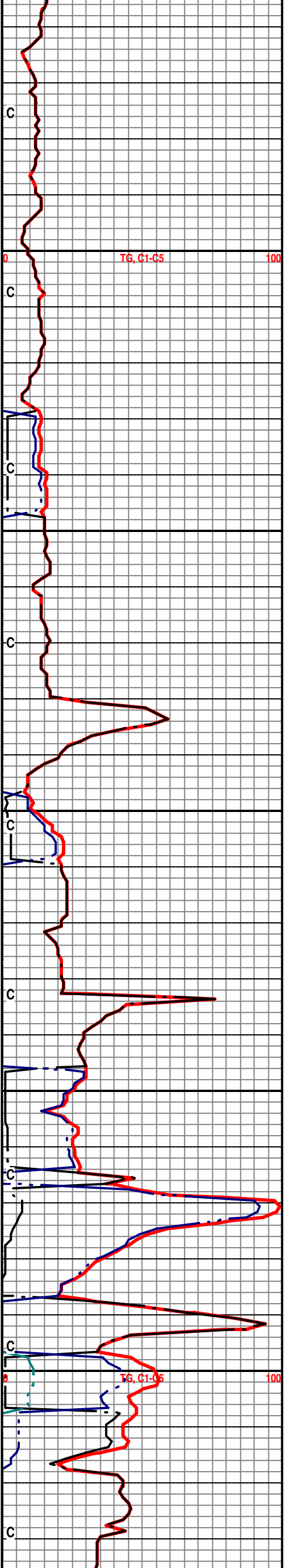
SH- GYT DRK G TO BLK, CARBY

**CHRK 4580' / -1705ss'**

LS- WHT LT GY, HRD BRITT, F-XLN, CHLKY, TRS OF OOL PR SORTD, TRS FOSS FRAGS, TN GY CHRT IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, FAINT ODOR

SH- DRK GY TO BLK, FRM BRITT, CARB TO CALC, CHLKY, TRS TN TO OFF WHT LS, SCATT FOSS FRAGS

SHLY LS- GY OFF WHT, BRITT,



F/VF-XLN, CHLKY, TRS OF DRK GY TO DRK TN CHRT, DLL YEL MIN FLO, NO VIS, POR, NO VIS CUT OR SHOW

**ATOKA 4679' / -1804ss'**

DEV 4653=3.1\* AZI 316.1

SH- DRK GY BLK, CARBY

CALC SH- GY DRK GY, FRM BRITT, CHLKY, OFF WHT LS STRNGS, GRNY, CARBY

LMY SH- GRK DRK GY BLK MOTT, FRM BRITT, GRNY CALC, CARBY, LS-GY CHLKY FOSS FRAGS.GY CHRT

LS- GY DRK GY TN, HRD DNS TO BRITT, F-XLN TO VF-OOL FR SORTD, CHLKY, 1) SAMPLE VF-OOL STAIN, FR INTER-OOL POR, FAST MILKY BL FLUSH TO STEAM CUT, NO ODOR

DEV 4749 3.2\* AZI 318.1

SH- GY DRK GY TO BLK FRM BRITT TO SFT, SMTH GRNY, CAL TO CARB. CHLKY LS STRGS

**MRRW 4782' / -1907'ss**

SH- SFT BLK CARBY

SH- GY DRK GY TO BLK, FRM BRITT TO SFT, SLI SILTY IP, TRS OF FOSS FRAGS (SHELLS), TRS OF PYR, CARBY

**MRRW A SND 4822' / -1947'**

SILTY SS- TN OFF WHT FRSTY, VF QRTZ GRNS, TT, TO SLI FRI, SUB RND TO SUB ANG, SILC TO CALC CMNT, DIRTY APPR, F/TRS OF FREE OIL & STAIN, WEAK PALE YEL FLO, FAST MILKY BLU FLUSH, NO ODOR

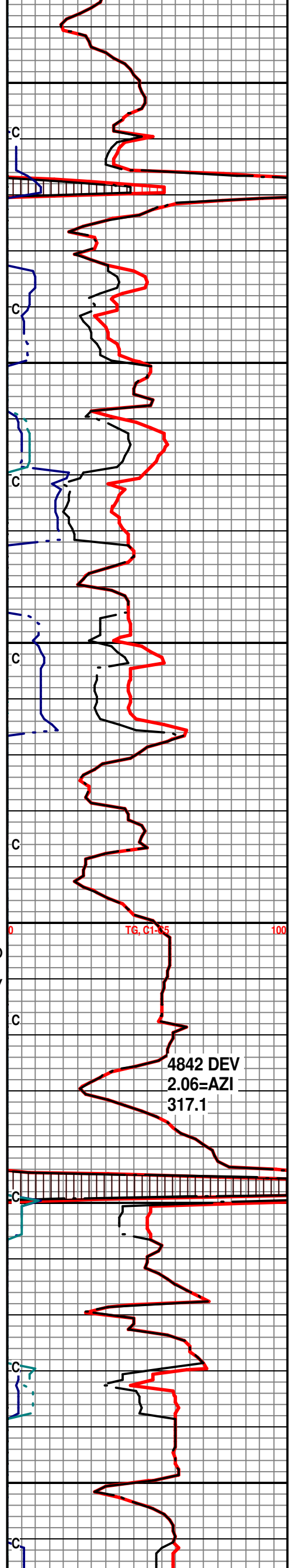
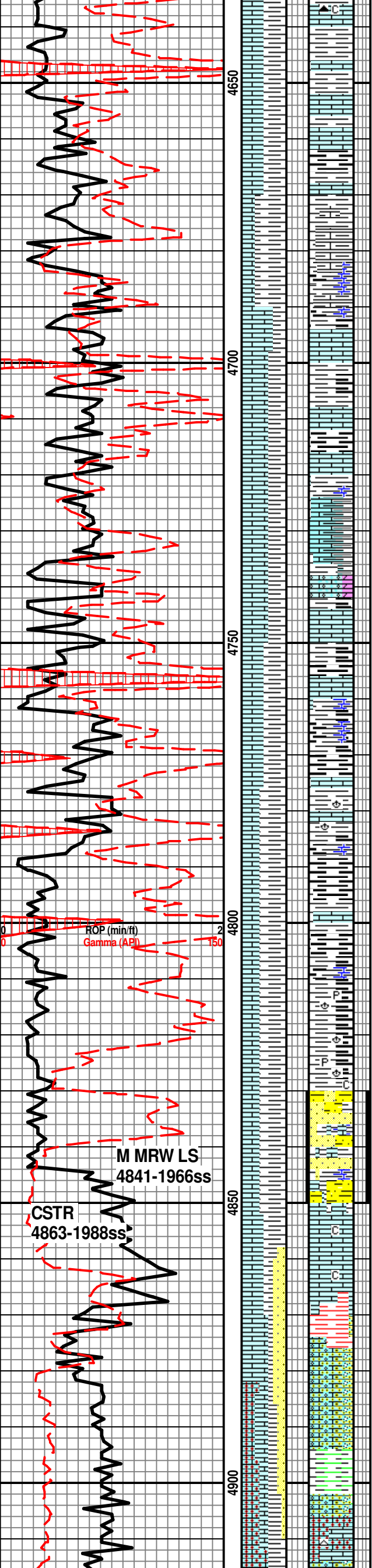
LS- TN BRN, HRD DNS TO BRITT, F-XLN, SUB-CHLKY, AHREN TO SLI-SNDY, TRS OF OOL, DLL YEL FLO, POSS PR INTER-GRN POR IP, NO VIS CUT OR SHOW, NO ODOR

**ST GEN 4875' / -2000ss**

OOL LS- CRM OFF WHT LT TN, HRD DNS TO BRITT, VF MICRO OOL GRNS, SUCRO TO V/CHLKY, DLL PALE MUSTRD YEL FLO, PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

SH- GY GRN, SFT SPLNTY SOAPY

OOL LS- CRM OFF WHT LT TN, HRD

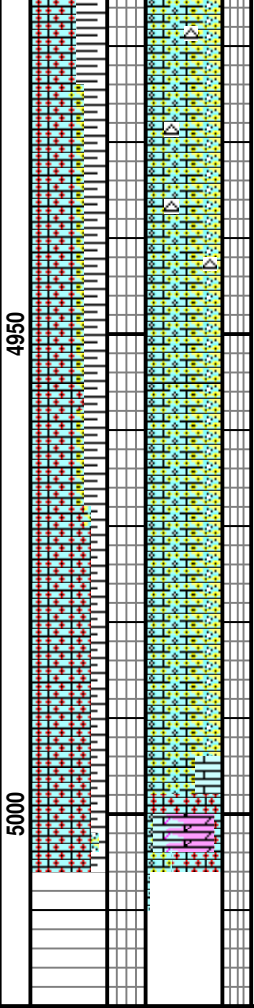
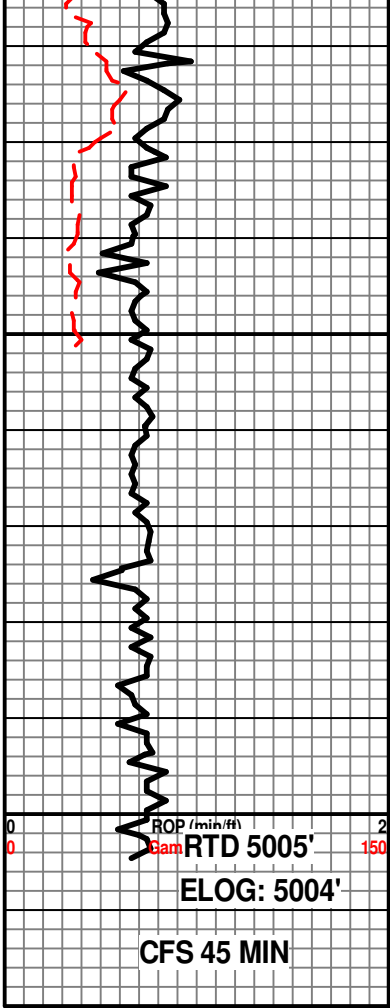


ROP (min/ft)  
Gamma (API)

M MRW LS  
4841-1966ss

CSTR  
4863-1988ss

4842 DEV  
2.06-AZI  
317.1



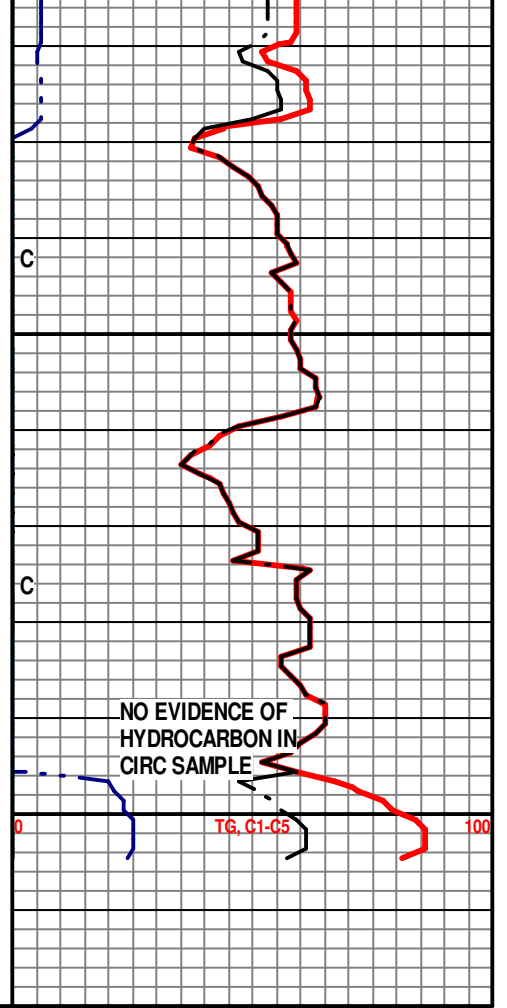
DNS BRITT, F-VF-XLN TO F/VF-MICRO  
 OOL, INCR LS CONTENT 30%, TN GY  
 CHRT, F/TRS OF FOSS FRAGS, PALE  
 YEL BLU FLO, PR INTER-GRN POR, M  
 NO VIS CUT OR SHOIW, NO ODOR

LS; OFF WH CRM VF AREN, CHLKY,  
 TN F-OOL PELL & CLR S-RD QTZ, COR  
 & GLAU, PURPL FLOR NSOC N/O

DEV SVR 4937==2.2 AZI  
 324.1

LS; CRM WH ARFEN SME OOL  
 PELL, LT PURPL FLOR SME GOLD,  
 NO ODOR, NO STNG, NO CUT ON  
 RANDOM PCES

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





**QUASAR ENERGY SERVICES, INC.**

3288 FM 51  
 Gainesville, Texas 76240  
 Office: 940-612-3336  
 Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2c

2/25/20  
 CEMENTING JOB LOG

**CEMENTING JOB LOG**

**Company:** MERIT ENERGY **Well Name:** CORA 1-16

**Type Job:** Cement- Surface **AFE #:** 65115

**CASING DATA**

Size:	13 3/8	Grade:	J-55	Weight:	48
<b>Casing Depths</b>	Top: 0	Bottom:	0		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 0	Weight:	0	Grade: 0	TD (ft): 91'
Open Hole:	Size: 17 1/2	T.D. (ft):	91		
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	0	

**CEMENT DATA**

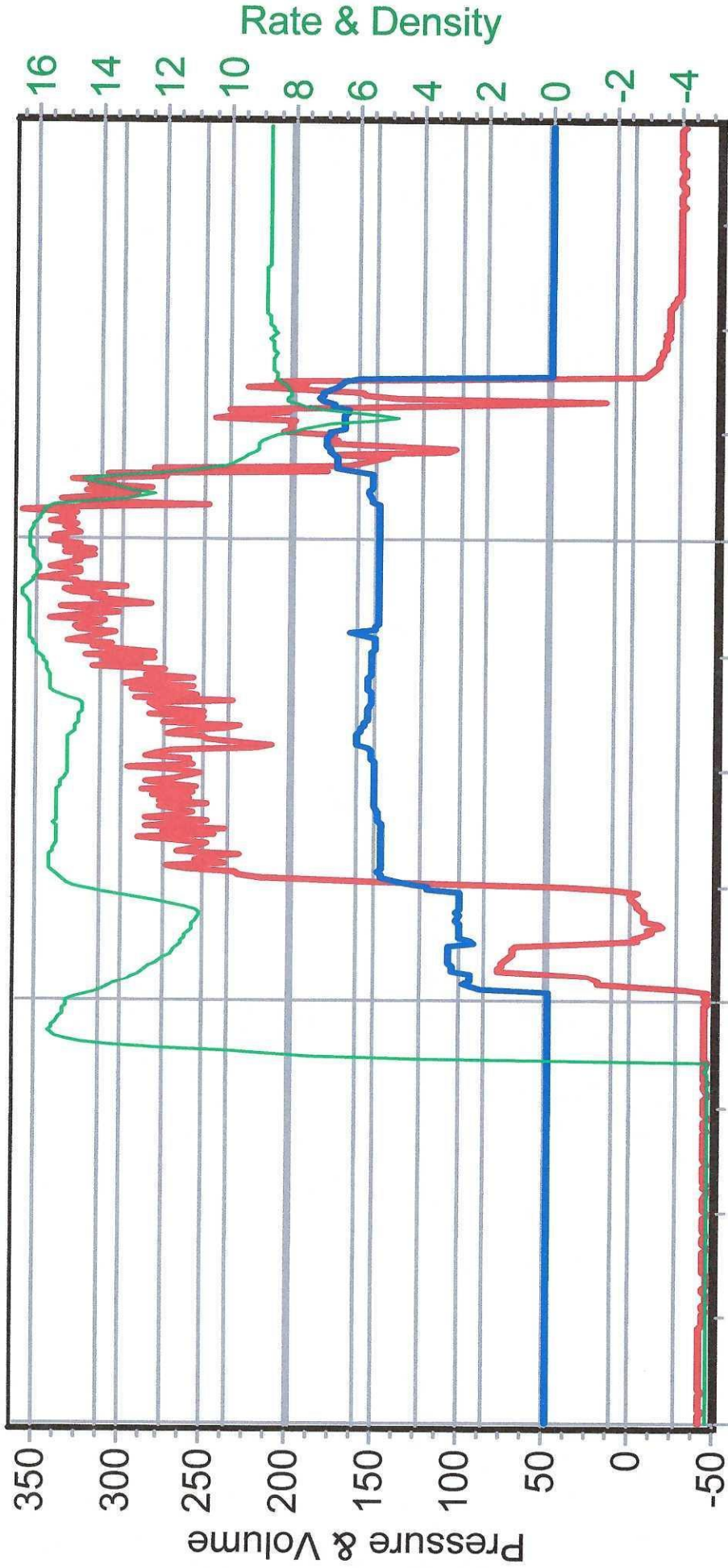
<b>Spacer Type:</b>					
Amt.	Sks Yield		ft <sup>3</sup> /sk	Density (PPG)	
<b>LEAD:</b>				Excess	
Amt.	Sks Yield		ft <sup>3</sup> /sk	Density (PPG)	
<b>TAIL:</b>	60/40/4			Excess	
Amt.	170	Sks Yield	1.41	ft <sup>3</sup> /sk	Density (PPG) 13.8

<b>WATER:</b>					
Lead:		gals/sk:	Tail: 6.8	gals/sk:	Total (bbls):
Pump Trucks Used:	210 - dp11				
Bulk Equipment:	228 - 660 23				
Disp. Fluid Type:	FRESH	Amt. (Bbls.)		Weight (PPG):	8.33
Mud Type:				Weight (PPG):	9.2

**COMPANY REPRESENTATIVE:** RODNEY GONZALES **CEMENTER:** *[Signature]*

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
23:00						ON LOC, SAFTEY MTG, R.U. 2/24/20	
02:00		60				3.1	START MIXING @ 14.8#
02:15		180			48	5	START DISPLACEMENT
02:19					12.5		SHUT DOWN, SHUT IN WELL
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!
							<i>26 bbls cement to the pit</i>

# MERIT CORA 1-16 13 3/8





**QUASAR ENERGY SERVICES, INC.**

3288 FM 51  
 Gainesville, Texas 76240  
 Office: 940-612-3336  
 Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2c

2/26/20

CEMENTING JOB LOG

**CEMENTING JOB LOG**

<b>Company:</b> MERIT ENERGY			<b>Well Name:</b> CORA 1-16			
<b>Type Job:</b> Cement- Surface			<b>AFE #:</b> 65113			
<b>CASING DATA</b>						
Size:	8 5/8	Grade:	j-55	Weight:	24	
<b>Casing Depths</b>	Top: 0	Bottom:	0			
Drill Pipe:	Size: 0	Weight:	0			
Tubing:	Size: 0	Weight:	0	Grade:	0 TD (ft): 1794	
Open Hole:	Size: 12 1/4	T.D. (ft):	1794			
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	0		
<b>CEMENT DATA</b>						
<b>Spacer Type:</b>						
Amt.	Sks Yield		ft <sup>3</sup> /sk	Density (PPG)		
<b>LEAD:</b>	CLASS C 2%CaCl, 2%METSOLITE, 2%GYPSUM, 1/2#POLY				Excess	
Amt.	515	Sks Yield	2.42	ft <sup>3</sup> /sk	Density (PPG) 12.1	
<b>TAIL:</b>	CLASS C 2%CaCl, 1/2#POLY				Excess	
Amt.	165	Sks Yield	1.34	ft <sup>3</sup> /sk	Density (PPG) 14.8	
<b>WATER:</b>						
Lead:	14.25	gals/sk:	174	Tail:	6.4 gals/sk: 25 Total (bbls): 199	
Pump Trucks Used:	210-DP11					
Bulk Equipment:	230 660-20, 228 660-25					
Disp. Fluid Type:	FRESH	Amt. (Bbls.)	110.9	Weight (PPG):	8.33	
Mud Type:				Weight (PPG):		
<b>COMPANY REPRESENTATIVE:</b> <u>RODNEY GONZALES</u>			<b>CEMENTER:</b> <u>[Signature]</u>			
TIME AM/PM	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
01:00						ON LOC, SAFTEY MTG, R.U.
06:10	180				5	START MIXING LEAD @ 12.1#
07:17	137			222	5.5	START TAIL @14.8#
07:30				39.5		SHUT DOWN, DROP PLUG
07:32	60				5.6	START DISPLACEMENT, WASHUP
07:59	450-930			111		PLUG DOWN
08:01						RELEASE PSI, FLOAT HELD
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!



# QUASAR ENERGY SERVICES, INC.

3288 FM 51  
 Gainesville, Texas 76240  
 Office: 940-612-3336  
 Fax: 940-612-3336 | qesi@qeserve.com



**FRACTURING | ACID | CEMENT**

<b>BID #:</b> 2513	<b>AFE#/PO#:</b> 0
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<b>TYPE / PURPOSE OF JOB</b> Cement- Surface	<b>SERVICE POINT</b> Liberal, KS
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<b>CUSTOMER</b> MERIT ENERGY	<b>WELL NAME</b> CORA 1-16
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<b>ADDRESS</b> gardencity.invoices@meritenergy.com	<b>LOCATION</b>
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<b>CITY</b> GARDEN CITY	<b>STATE</b> KS	<b>ZIP</b>	<b>TYPE AND PURPOSE OF JOB</b>
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<b>DATE OF SALE</b> 2/26/2020	<b>COUNTY</b> FINNEY	<b>STATE</b>
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QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT
60	1000	L	Mile	Mileage - Pickup - Per Mile	\$3.15	\$ 189.00
180	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	\$6.00	\$ 1,080.00
1	5440	L	Per Well	Pumping Charge 0'-3500'	\$1,575.00	\$ 1,575.00

**Subtotal for Pumping & Equipment Charges** **\$ 2,844.00**

QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT
680	5632	L	Per Sack	Cement - Class C	\$18.90	\$ 12,852.00
1	4780	L	Each	Guide Shoe 8 5/8"	\$491.40	\$ 491.40
1	4870	L	Each	Float Collar (Blue) 8 5/8"	\$913.50	\$ 913.50
1	4900	L	Each	Top Rubber Plug 8 5/8"	\$87.50	\$ 87.50
6	4920	L	Each	Centralizers 8 5/8"	\$88.20	\$ 529.20
5	5750	L	Per Gal.	VSC Cement Defoamer Liquid	\$44.10	\$ 220.50
1,763	5770	L	Per Lb.	Calcium Chloride	\$1.26	\$ 2,221.38
342	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	\$2.52	\$ 861.84
970	5850	L	Per Lb.	Gypsum	\$0.95	\$ 921.50
970	5900	L	Per Lb.	Sodium Metasilicate (SMS) C-45	\$2.21	\$ 2,143.70
100	5930	L	Per Lb.	Sugar	\$2.52	\$ 252.00

**Subtotal for Material Charges** **\$ 21,494.52**

<b>WORKERS</b>	<b>TOTAL</b>	\$ 24,338.52
	<b>DISCOUNT: 30%</b>	\$ 7,301.56
	<b>DISCOUNTED TOTAL</b>	\$ 17,036.96

**STAMPS & NOTES:**

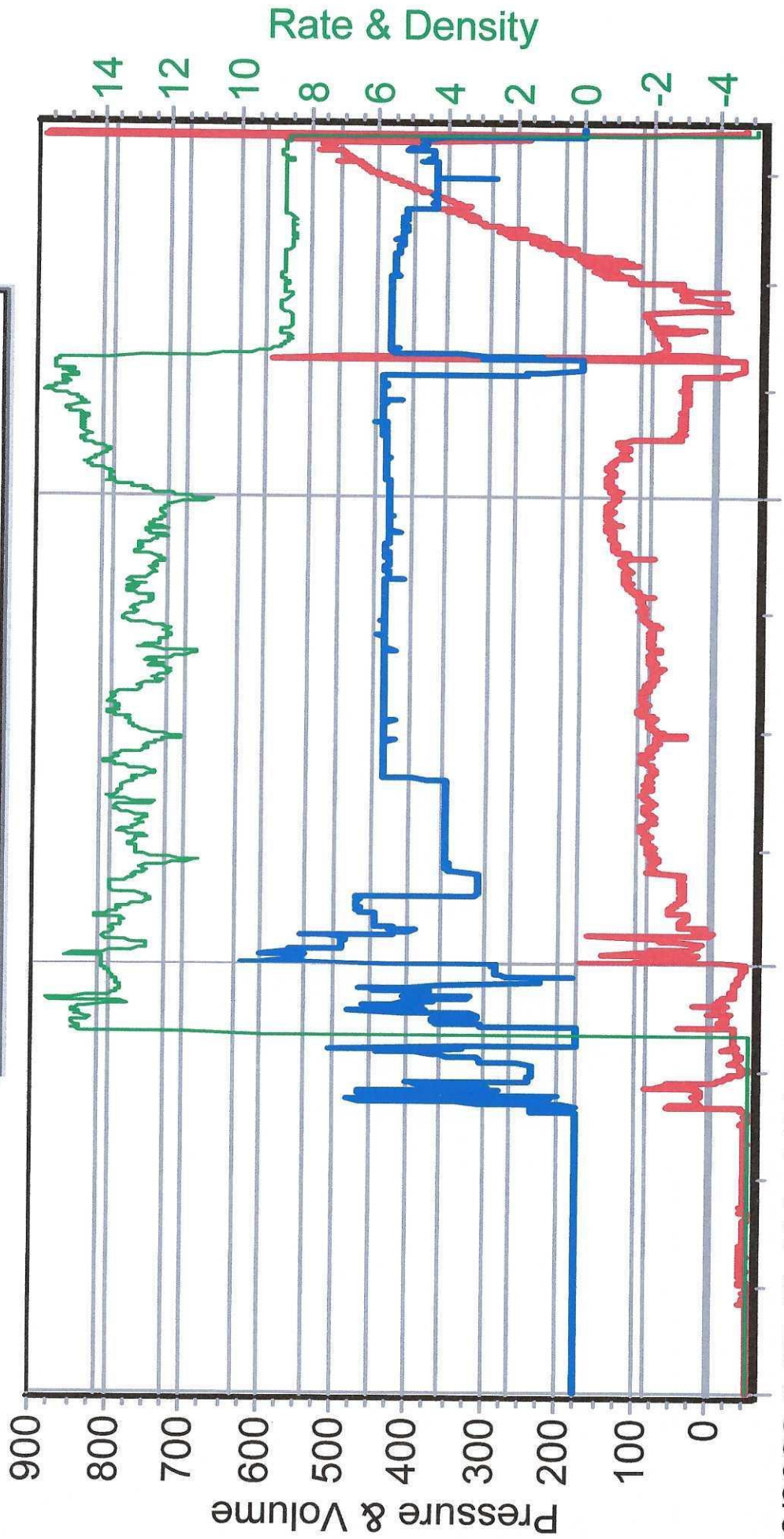
As of 9/22/15 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.

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**CUSTOMER SIGNATURE & DATE**

\*\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.

# MERIT ENERGY CORA 1-16 8 5/8



2/26/2020 5:25:42 AM 2/26/2020 6:18:02 AM 2/26/2020 7:15:13 AM





# QUASAR ENERGY SERVICES, INC.

3288 FM 51

Gainesville, Texas 76240

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**FRACTURING / ACID / CEMENT**



<b>BID #:</b> 2514		<b>AFE#/PO#:</b> 65115							
<b>TYPE / PURPOSE OF JOB</b>				Cement- Production		<b>SERVICE POINT</b>		Liberal, KS	
<b>CUSTOMER</b>				MERIT ENERGY COMPANY		<b>WELL NAME</b>		CORA # 1-16	
<b>ADDRESS</b>				SUBLETTE.INVOICES@MERITENERGY.COM		<b>LOCATION</b>		GARDEN CITY, KS	
<b>CITY</b>		LINDSAY		<b>STATE</b>	OK	<b>ZIP</b>		73052	
<b>DATE OF SALE</b>				2/29/2020		<b>COUNTY</b>		FINNEY	
<b>STATE</b>						<b>TYPE AND PURPOSE OF JOB</b>			
QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED			UNIT PRICE	AMOUNT	
60	1000	L	Mile	Mileage - Pickup - Per Mile			\$3.15	\$ 189.00	
120	1010	L	Mile	Mileage - Equipment Mileage - Per Mile			\$6.00	\$ 720.00	
1	5480	L	Per Well	Pumping Charge 5001'-5500'			\$1,915.20	\$ 1,915.20	
<b>Subtotal for Pumping &amp; Equipment Charges</b>								<b>\$ 2,824.20</b>	
QTY.	CODE	YD	UNIT	MATERIALS			UNIT PRICE	AMOUNT	
235	5670	L	Per Sack	Cement - Lite - C			\$18.90	\$ 4,441.50	
24	2502	L	Per Gal.	Clayplex 650			\$44.10	\$ 1,058.40	
100	5693	L	Per Lb.	C-17 Fluid Loss			\$10.71	\$ 1,071.00	
3	5750	L	Per Gal.	VSC Cement Defoamer Liquid			\$44.10	\$ 132.30	
60	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut			\$2.52	\$ 151.20	
1,185	5850	L	Per Lb.	Gypsum			\$0.95	\$ 1,125.75	
1,175	5860	L	Per Lb.	Kol-Seal			\$0.78	\$ 916.50	
500	5870	L	Per Gal.	Mud Flush			\$1.26	\$ 630.00	
1,410	5890	L	Per Lb.	Salt			\$0.32	\$ 451.20	
1	4280	L	Each	Float Shoe (Blue) 5 1/2"			\$342.72	\$ 342.72	
1	4350	L	Each	Float Collar (Blue) 5 1/2"			\$472.50	\$ 472.50	
1	4420	L	Each	Top Rubber Plug 5 1/2"			\$59.40	\$ 59.40	
<b>Subtotal for Material Charges</b>								<b>\$ 10,852.47</b>	
<b>WORKERS</b>						<b>TOTAL</b>		\$ 13,676.67	
KIRBY HARPER						<b>DISCOUNT:</b>		30%	
VICTOR CORONA						<b>DISCOUNT</b>		\$ 4,103.00	
JESSE PAXTON						<b>DISCOUNTED TOTAL</b>		\$ 9,573.67	
<b>STAMPS &amp; NOTES:</b>						As of 9/22/15 any invoice with a discount must paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.			
						<b>CUSTOMER SIGNATURE &amp; DATE</b>			

\*\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.



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Form 185-2c

2/29/20

CEMENTING JOB LOG

**CEMENTING JOB LOG**

**Company:** MERIT ENERGY COMPANY **Well Name:** CORA # 1-16

**Type Job:** Cement- Production **AFE #:** 65115

**CASING DATA**

Size:	5 1/2	Grade:	J-55	Weight:	17
<b>Casing Depths</b>	Top: 0	Bottom:	SJ-46.96		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 0	Weight:	0	Grade: 0	TD (ft): 5004
Open Hole:	Size: 7 7/8	T.D. (ft):	5004		
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	0	

**CEMENT DATA**

<b>Spacer Type:</b>	MUD FLUSH					
Amt.	500 GAL	Sks Yield		ft <sup>3</sup> /sk	Density (PPG)	
<b>LEAD:</b>	50/50 (C) - 6% GYP, 10% SALT, 5# GILSONITE, .5% C-17, 1/4# POLY					Excess
Amt.	185	Sks Yield	1.57	ft <sup>3</sup> /sk	Density (PPG)	13.5
<b>TAIL:</b>	50/50 (C) - 6% GYP, 10% SALT, 5# GILSONITE, .5% C-17, 1/4# POLY					Excess
Amt.	50	Sks Yield	1.57	ft <sup>3</sup> /sk	RAT AND MOUSE	Density (PPG) 13.5

**WATER:**

Lead:		gals/sk:		Tail:		gals/sk:		Total (bbls):	
Pump Trucks Used:	110 - DP7								
Bulk Equipment:	228 / 660-23								
Disp. Fluid Type:	KCL WATER	Amt. (Bbls.)	115	Weight (PPG):	8.34				
Mud Type:				Weight (PPG):	9.2				

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

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
1330						ON LOCATION -- SPOT AND RIG UP	
1445						CASING ON BOTTOM -- BREAK CIRC	
1500						SAFETY MEETING	
1520		2000				PRESSURE TEST	
1522		300			14	5	START PUMPING MUD FLUSH
1528		--			12	3	PLUG RAT AND MOUSE HOLES
1536		300			51	6	START MIXING 185 SK CMT @ 13.5 PPG
1547		--					SHUT DOWN -- DROP PLUG - CLEAN LINES
1555		300			0	7	START DISPLACING WITH KCL WATER
1607		600			93	6	DISPLACEMENT REACHES CEMENT
1611		650			104	3	SLOW RATE
1616		700-1200			114		BUMP PLUG
1618		1200-0					RELEASE PRESSURE -- FLOATS HELD

# MERIT ENERGY COMPANY

## CORA 1-16

### 5 1/2" PRODUCTION

### 2-29-20

