

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 Recompletion Date _____ 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	MCWILLIAMS E 11
Doc ID	1641606

All Electric Logs Run

ANNULAR HOLE VOLUME LOG 5 CASING
ARRAY COMPENSATED TRUE RESISTIVITY LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
BOREHOLE SONIC ARRAY LOG
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG
MICROLOG
QUAD COMBO LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MCWILLIAMS E 11
Doc ID	1641606

Tops

Name	Top	Datum
HEEBNER	3894	.
TORONTO	3916	.
LANSING	3983	.
IOLA	4134	.
SWOPE	4322	.
HERTHA	4377	.
MARMATON	4492	.
ALTAMONT	4509	.
MARMATON	4549	.
PAWNEE	4581	.
FT SCOTT	4609	.
CHEROKEE	4627	.
ATOKA	4743	.
MORROW	4838	.
CHESTER	4916	.
ST GENEVIEVE	4946	.



MERIT ENERGY

Merit Energy Company

Finney County, Kansas (NAD 27)

Sec 21, T24S, R33W

McWilliams E-11

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

08 March, 2022



KLX Directional Drilling, INC.

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
Merit Energy Company LLC	MC-220209	3/8/2022

Lease	Well Name	County & State
Sec. 21, T24S, R33W	McWilliams E11	Finney, Kansas

API No.	Survey Depth Range	Survey Type
15-055-22547	320 feet to 5100 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Kyle Greene

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by KLX Directional Drilling. This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Kristopher Ray
Regulatory Compliance Manager
KLX Directional Drilling, Inc.

Company:	Merit Energy Company	Local Co-ordinate Reference:	Well McWilliams E-11
Project:	Finney County, Kansas (NAD 27)	TVD Reference:	RKB @ 2905.0usft (Duke #9)
Site:	Sec 21, T24S, R33W	MD Reference:	RKB @ 2905.0usft (Duke #9)
Well:	McWilliams E-11	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Finney County, Kansas (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Sec 21, T24S, R33W				
Site Position:		Northing:	475,340.95 usft	Latitude:	37° 56' 47.526 N
From:	Map	Easting:	1,292,053.59 usft	Longitude:	100° 57' 19.258 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.51 °

Well	McWilliams E-11					
Well Position	+N/-S	0.0 usft	Northing:	475,340.95 usft	Latitude:	37° 56' 47.526 N
	+E/-W	0.0 usft	Easting:	1,292,053.59 usft	Longitude:	100° 57' 19.258 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,893.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	3/1/2022	5.58	65.13	51,002.10000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	46.65

Survey Program	Date	3/8/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
320.0	5,100.0	KLX MWD Surveys (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	
320.0	0.20	346.00	320.0	0.5	-0.1	0.6	346.00		
First MWD Survey @ 320.0' MD / 320.0' TVD									
469.0	0.30	66.00	469.0	1.0	0.2	1.0	9.43		
620.0	0.40	324.00	620.0	1.5	0.2	1.6	7.75		
776.0	0.50	0.00	776.0	2.7	-0.1	2.7	357.62		
964.0	0.70	58.00	964.0	4.1	0.9	4.2	11.92		
1,446.0	0.80	320.00	1,446.0	8.2	1.2	8.3	8.28		
1,591.0	0.50	323.00	1,590.9	9.5	0.2	9.5	1.00		
1,779.0	0.60	323.00	1,778.9	11.0	-0.9	11.0	355.20		
1,843.0	1.10	88.30	1,842.9	11.2	-0.5	11.2	357.41		
1,937.0	1.36	93.75	1,936.9	11.2	1.5	11.3	7.67		

Company:	Merit Energy Company	Local Co-ordinate Reference:	Well McWilliams E-11
Project:	Finney County, Kansas (NAD 27)	TVD Reference:	RKB @ 2905.0usft (Duke #9)
Site:	Sec 21, T24S, R33W	MD Reference:	RKB @ 2905.0usft (Duke #9)
Well:	McWilliams E-11	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
2,030.0	1.23	91.64	2,029.9	11.1	3.6	11.7	18.02		
2,124.0	1.19	89.09	2,123.9	11.1	5.6	12.4	26.78		
2,218.0	1.05	93.75	2,217.9	11.0	7.4	13.3	33.94		
2,312.0	1.05	90.32	2,311.8	11.0	9.1	14.3	39.81		
2,406.0	0.97	97.18	2,405.8	10.9	10.8	15.3	44.81		
2,500.0	2.59	62.64	2,499.8	11.7	13.5	17.9	48.92		
2,594.0	4.88	57.10	2,593.6	14.9	18.7	23.9	51.49		
2,687.0	5.14	53.58	2,686.2	19.5	25.4	32.0	52.45		
2,781.0	6.55	45.76	2,779.7	25.8	32.6	41.6	51.71		
2,876.0	6.46	46.82	2,874.1	33.2	40.4	52.3	50.59		
2,970.0	6.59	47.70	2,967.5	40.4	48.2	63.0	50.03		
3,064.0	6.02	42.16	3,060.9	47.7	55.5	73.2	49.33		
3,157.0	6.11	34.86	3,153.4	55.4	61.6	82.9	48.05		
3,250.0	5.89	39.79	3,245.9	63.1	67.5	92.4	46.93		
3,345.0	5.93	45.41	3,340.4	70.3	74.1	102.2	46.52		
3,440.0	5.76	44.80	3,434.9	77.1	81.0	111.9	46.39		
3,533.0	5.10	43.65	3,527.5	83.5	87.1	120.7	46.24		
3,628.0	4.97	46.38	3,622.1	89.3	93.0	129.0	46.16		
3,721.0	6.90	47.17	3,714.6	95.9	100.0	138.6	46.20		
3,816.0	6.95	46.38	3,808.9	103.8	108.4	150.1	46.25		
3,910.0	6.81	45.85	3,902.3	111.6	116.5	161.3	46.24		
4,004.0	6.55	43.65	3,995.6	119.3	124.2	172.2	46.15		
4,099.0	6.24	45.15	4,090.0	126.9	131.6	182.8	46.04		
4,193.0	7.38	45.32	4,183.4	134.7	139.5	194.0	46.00		
4,287.0	7.56	48.40	4,276.6	143.1	148.4	206.2	46.05		
4,381.0	7.56	47.61	4,369.7	151.4	157.6	218.5	46.16		
4,475.0	7.38	47.34	4,462.9	159.6	166.6	230.8	46.23		
4,568.0	7.16	48.40	4,555.2	167.5	175.4	242.5	46.31		
4,662.0	6.46	47.78	4,648.5	175.0	183.7	253.7	46.39		
4,757.0	6.20	46.73	4,743.0	182.1	191.4	264.1	46.42		
4,851.0	6.02	47.96	4,836.4	188.9	198.7	274.1	46.46		
4,945.0	5.58	50.68	4,929.9	195.1	205.9	283.6	46.55		
5,009.0	4.92	48.05	4,993.7	198.9	210.4	289.5	46.61		
5,100.0	4.92	48.05	5,084.3	204.1	216.2	297.3	46.65		
TD @ 5100.0' MD / 5084.3' TVD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
320.0	320.0	0.5	-0.1	First MWD Survey @ 320.0' MD / 320.0' TVD	
5,100.0	5,084.3	204.1	216.2	TD @ 5100.0' MD / 5084.3' TVD	

Checked By: _____ Approved By: _____ Date: _____

MBC WELL LOGGING LLC

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

Well Name: McWILLIAMS E-11 DIRC 21-T24sR33w FINNEY AFE 69515
 Well Id: API 15-055-22547-01-00
 Location: FINNEY COUNTY, KANSAS USA
 License Number: 32446
 Spud Date: 03/03/22
 Surface Coordinates: SW/SW/SW/SW SEC21 T24sR33w,
 DUKE RIG 9, RODNEY GONZALES CO-MAN
 Bottom Hole EST 440fwi 468fsi
 Coordinates: HLS WIRE LINE SVCS
 Ground Elevation (ft): 2893 K.B. Elevation (ft): 2905
 Logged Interval (ft): 3800 To: 5100 Total Depth (ft): Elog 5103
 Formation: ST LOUIS
 Type of Drilling Fluid: MUDCO Tony Mastas CELL (316) 772-6679
 Region: COWGILL
 Drilling Completed: 03-08-22

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




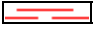
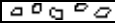










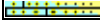



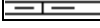



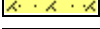




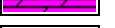



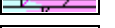



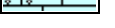


OPERATOR

Company: MERIT ENERGY CO LLC
 Address: MARTIN LANGE
 13727 NOEL ROAD STE1200
 DALLAS, TEXAS 75240-7362

MUDLOGGER

Name: AUSTIN GARNER (620)655-2016
 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		

ACCESSORIES

LITHOLOGY

- Anhy
- Brec
- Cht
- Coal
- Congl
- Shly dolomite
- Dolo new
- New dolomite 2012
- Newdolo ls 2
- Ls & ooids
- Oolitic ls -1
- Stgensndy-arkos
- New ls-1
- Carby shale
- Lmy carby sh-3
- Carb sh
- Gyp
- Slst
- Salt
- Sndy sh--red
- Sndy sh
- Slst-1
- Slty-shale
- Lmy ss-1
- Arkosic snd
- Ss
- Grn sh strk
- Grn mott gy sh
- Lmy sh-2
- Shale-1
- Red sh-1
- Stgensndy-arkos
- Sndy ool ls

- Sndy-ls-1
- Calc shale
- Granitewash
- Ls shly-b
- Poor sortd ss
- Snd-ls-sh

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg

- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- New dolostringer
- Dol
- Fldspr-1
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Qtz
- New symbol
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Styolitic
- Slickenside

STRINGER

- Anhy

- Red sh stringer
- Arg
- Bent
- Coal
- Dol
- Gyp
- Oolls-1
- Ls
- Mrst
- Slstgrg
- Ssstrg
- Grn sh strk

TEXTURE

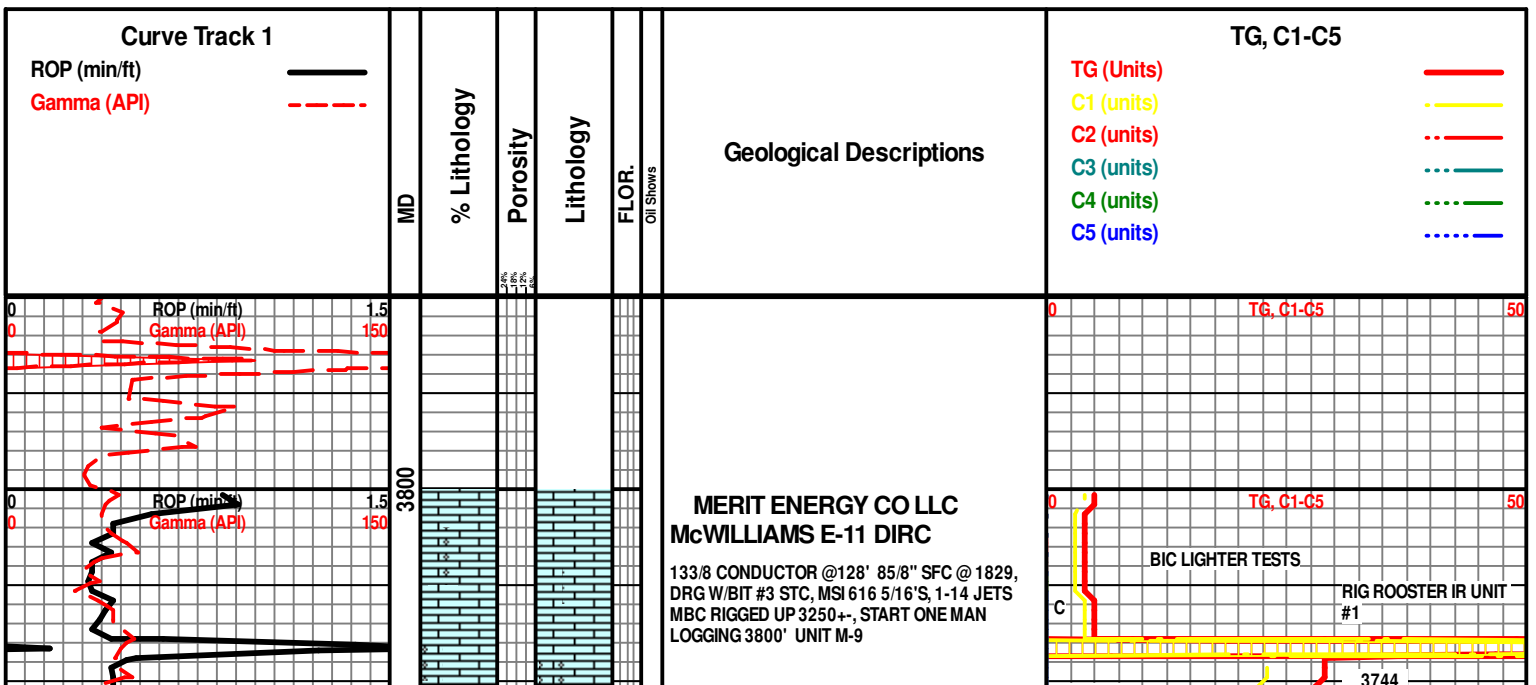
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- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

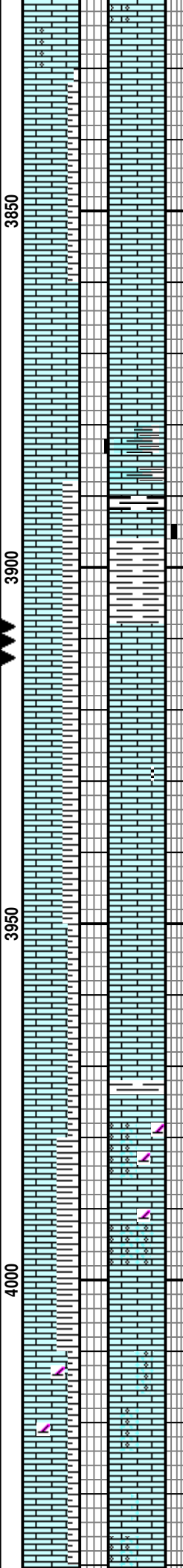
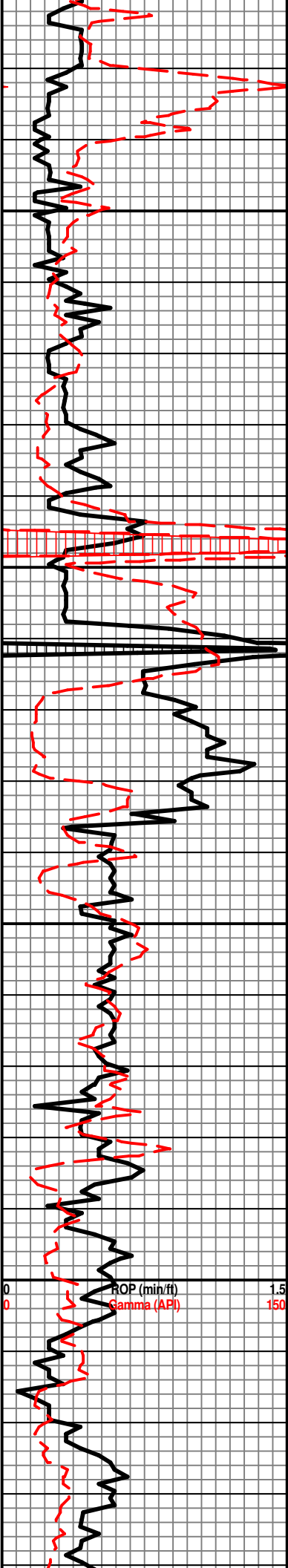
OIL SHOW

- Even
- Spotted
- Ques
- Dead

Comments

KLX ENERGY SERVICES, MWD CO,
 111390 FM 380
 WILLIS, TEXAS (936) 856-8483





LS; OFF WH BUFF CRM CHLKY SHDW
VF OL, INCRS MOTT W/GY PELL &
SPLOTCHES, FOSS TUBES, NO
SHOW

LS; LT TN HD GRITTY S CHLKY INCRS
GYISH HD 3% PYR

HEEBNER SH 3890-
TR BLK CARBY SH, PRED GY GRN

TORONTO 3908-
LS; WH SLI BUFF HD XLN, W/CHLK
FILL FOSS, TO S-CHLKY TR TN VIT
CHT N/O NO SHOW

LS; CRM WH TR CRM WH W/OOL PELL,
PRED TN HD XLN W/FOSS FRGS, CLR
VIT CHT, N/O PRED PURPL SME LT YEL
MFNSOC

SH DULL GY LMY GRDS TO GY HD
DNS SHLY LS, FLAKEY FRAC
LANSING GRP 3976-

LS; LT TN HD XLN TO CRM WH
S-CHLKY W/SME OOL PELL, SME GY
MOTT WH CRM OL PELL, TR WH VF
DOLO, N/O PURPL MFNSOC

LS; CHLKY CRM TNJ W/ VF F OOL
PELL, INCRS TN F-UPR OOLCAS, &
OOL, SME SPAR CMTED, N/O PURPL
SME YEL FLOR NSOC

SRV 3818
INC 6.95° AZI 46.38
TVD 3808

MUD CHECK
WT 9.3
VIS 56
PV 17
YP 20
GEL 14/37
PH 10.5
FIL 6.4
A;KFIL 0.3--
CHL 2,800
CAL 20
SOL 7
LCM 3

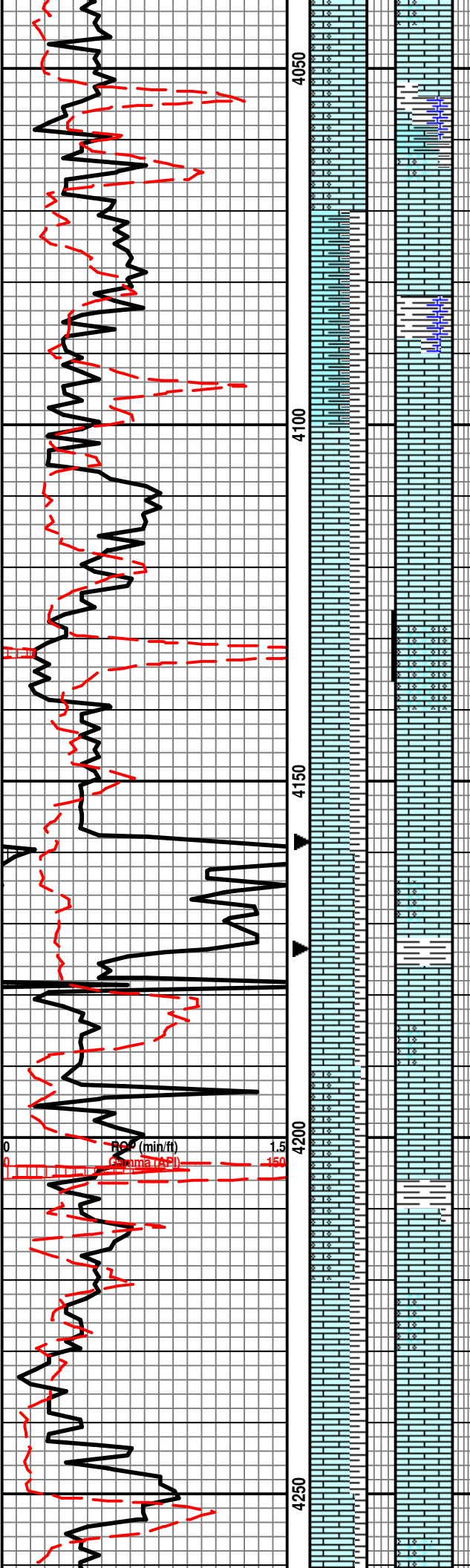
SRV MD 3910
INCL 6.8° AZI 4585
TVD 3902

LOWER EXTRACTOR
3/4" --MOVE IN
TROUGH

TG, C1-C5

SRV MD 4000
INC 6.55° AZI 4365
TVD 3995

ROP (min/ft) 1.5
Gamma (API) 150



LS; TN HD XLN

SH; LT GY GY RGH W/ TN PELL, LMY

TN HD DNS XLN LS W/SHDW FOSS

SH; GY P/SRTD BLK PELL & Splotches, LMY, TR GY SFT LMY, 10% PYR

SRV MD 4099
INC 6.24, AZI 45015
TVD 4090

LS; LT CRM SPARITIC F & MED OOLCAS, CHLK FILL IP, SILIC INCLUS, N/O PURPL W SME YEL MFNSOC

IOLA 4130-

LS; LT TN SPARRY OL TO BUFF CRM WEATGHDE APPR P/SRTD VF TO F OOL, THIN RIM COAT, ABDT CRM WH CHLK, N/O PURPL TO PURPLISH GOLD MFNSOC

LS; ;LT TN HD DNS CRYP XLN

SH; DK BRN LMY

DRUM 4184

SRV MD 4193
INC 7.38 AZI 4532
TVD 4183

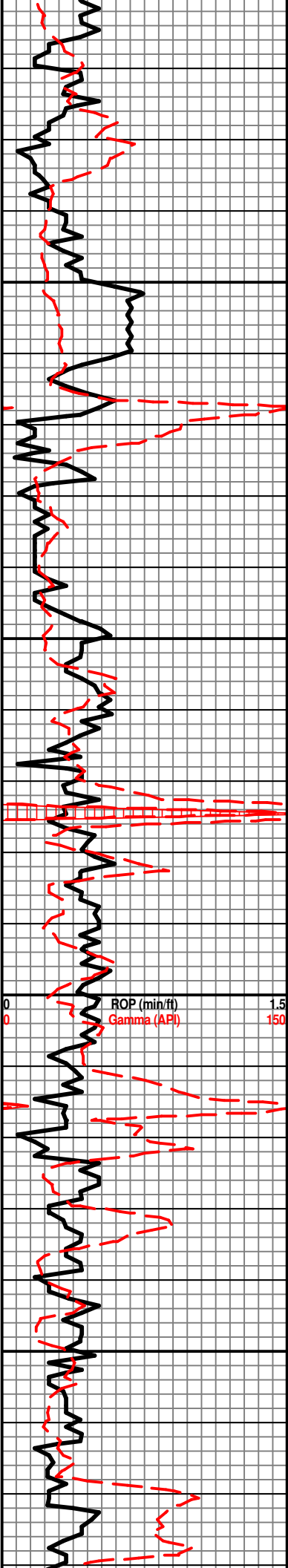
LS; LT TN BUFF SPARRY VF -UPR F OOLCAS & OOL, ABDT WH CHLK, N/O PURPL FLOR NSOC

TG, C1-C5

50

BLK TO DK GY LMY SH

LS; CRM TN CHLKY VF F OOL, TO WH TN HD DNS XLN, SHDW VF FOSS DEBRIS, TR CHOR, N/O PURPL FLOR NSOC



4300

4350

4400

4450

ROP (min/ft)
Gamma (API)

1.5
150

LS; LT TN SPARRY VF OOLC W/OOL
PELL, ABDT CRM WH CHLK, N/O,
PURPL SME GOLD MFNSOC

LS; TN GY TN HD DNS XLN SME
FOSS DEBRIS

STARK

SH BLK BRTL CARBY

SWOPE 4328

LS; TN SLI GY TN VF F OOLC & OL, TR
ELIP VUG POR, SPARRY, SME GAS
BUBL AFTER 30min, V/FAINT GOLD
FLOR, N/O, NO CUT NO CRUSH CUT

LS; TN GY HD DNS SHLY XLN COMGLD
CRM CHLK

HUSHPKY

TR GY BRN BLK SH

LS; DUSTY VF OOL, VF SNDY IP, TO LT
BRN GRITTY SPARRY VF F OOL SME
OOLCAS, TR MED OOLMODIC, INCRS
GY SHLY, N/O, DK GOLD PURPL
MFNSOC

SH & LS; GY DK GY HD, W/SME FOSS
FRGS

LS; CRM MOTT TN SPARRY HD VF F
OOL, & VF OOLCAS ON HD DNS XLN,
TR FREE MED CRS RD SPAR OOIIDS,
N/O FAINT GOLD PRED PURPL
MFNSOC

SH; BLK DK GY TR GRN , DK GY LMY
SME GYISH GRITTY MARLY SHLY

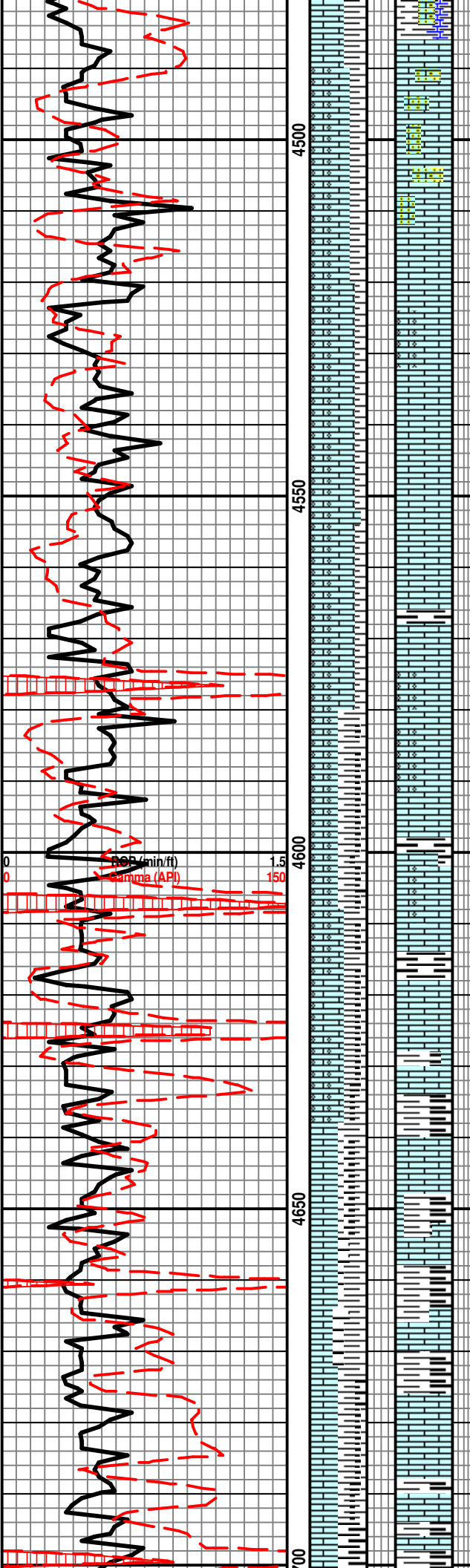
SRV MD 4287
INC 7.56 AZI 48.40
TVD 4276

SRV MD 4381
INC 7.56 AZI 4761
TVD 4369

TG, C1-C5

50

SRV MD 4476
INC 7.38 AZI 47.34
TVD 4462.95



MARMATON 4485

LS; BUFF WH HD DNS, WEATHD APPR, S,E SHDW OOL & FOSS, INCRS GY MOTT N/O, PURPL SME GOLD FLOR NSOC

LS; GY TN HD SHLY FOSS XLN

LS; TN BUFF SPARRITIC OOL, SME CHLKY OOL PURPL TO SCATT YEL FLOR, NSOC N/O

LS; GY TN HD DNS FLAKEY FRAC XLN SHLY

BANDERA SH

DK GY MARLY LT GY LMY SH

PAWNEE 4570-1655ss

LS; LT TN, GY CHLKY VF OOL, CRM CHLK, N/O PURPL SCATT YEL MFNSOC

BLK DK GY CALC CARBY SH

LS; CRM WH TN VF OOL, DK GY CNTR, S,E OOL & FOSS HASH, N/O LT PURPL TO FAINT YEL MFNSOC

BLK CARB SH

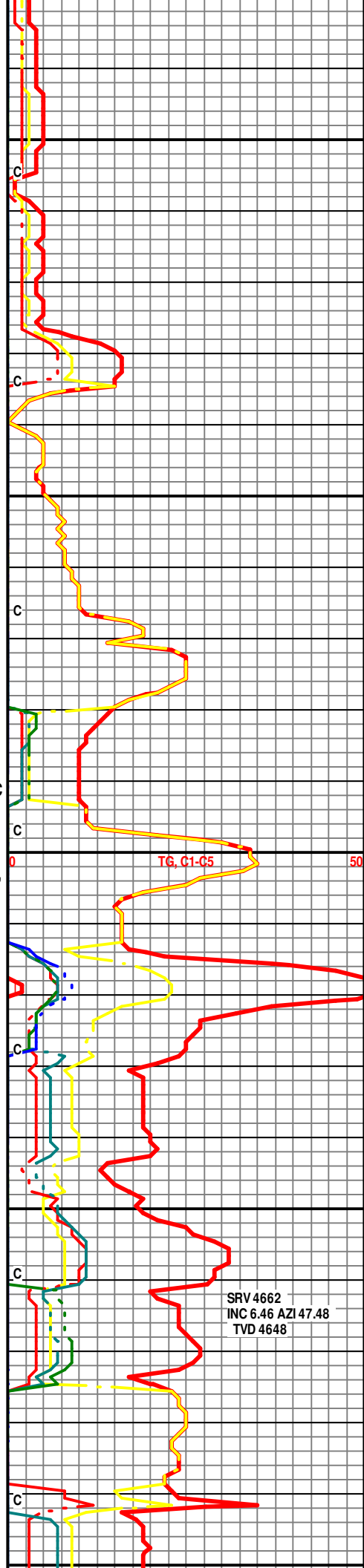
CHEROKEE 4619-1714ss

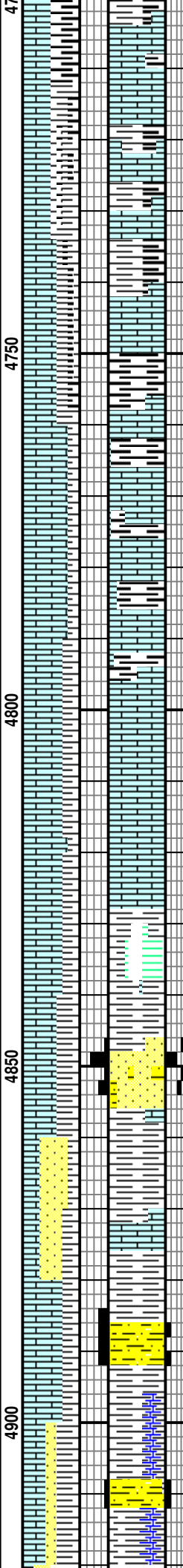
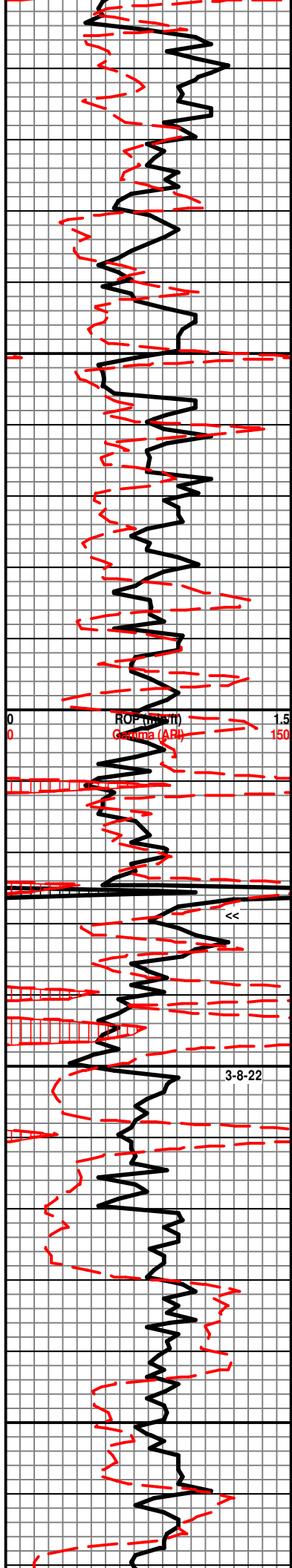
LS; LT TN SPARRITC VF OOL, & FOSS MISHMASH, TO DK TN OOL & MICRO FOSS, 10% PYR, N/O MED PURPL W/30% PALE WEAK GOLD MFNSOC

TN HD DNS FLAKEY FRAC XLN

SH; BLK BLKY TO PLATY V/CALC, CARBY, MICRO MICA, MICRO PYR 5-10%

SH; BLK BLKY FRM CALC, MICRO MICA, 5% PYR, S,ME DK BRN W/ VF DK GY PELL,





LS; CRM CHLKY COMGLD W/TN BRN HD DNS XLN, PRED HD XLN W/CHLK EDGES, 2% PYR

SH; BLK BLKY CARBY CA;C MCA 5% PYR

LS; TN GY TN HD XLNS SHDW VF FOSS, ABDT GYSH CHLKY TPO F X;M SME MICRO OOL, N/O DK PURPL SCATT WHEAT STRW YEL NSOC

LS; WH MOTT GY BLK HD XLN IP TO CHLKY GY WH, TR NAVAJO RED SFT SH INTBD BLK DK GY SH

LS; DIRTY GY WH MARLY SFT SME SCATT FOSS, , TR MICRO OOL, INTBD GRN TO BLK SH, SCATT YEL MFNSOC N/O

MORROW ?

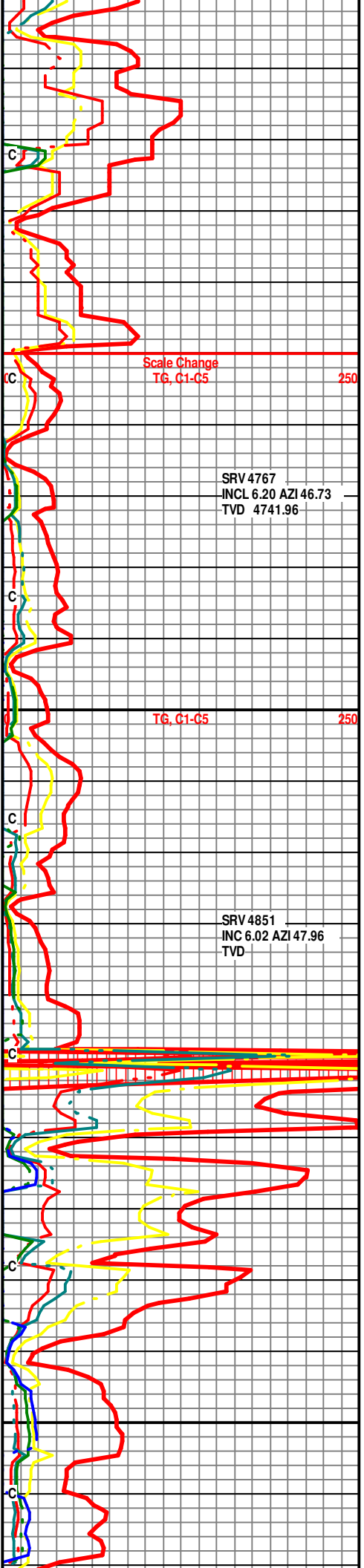
SH; GY SME BLK BLKY 15% PYR, SME GRN W/ MICRO GLAU PELL

SS; CLR VF GR, W/SRTD, PRED RD SME S-ANG FR TO MED TT, TR SLI CALC, , GRN WH VF GLAU SCATT, OVER-ALL BRN TO DK BRN STNG, SME FREE OIL, SME FREE OIL ON FRACNG, V/DK BRN GOOD ODOR, GAS BUBL (MIGHT BE TITE ON MED TT CLSTRS, PRED BLK W/APPROX 5%- FAINT YEL GRN FLOR, FLASH THIN MILKY W/SME VF STRMG, GOOD RING CUT

SH; GY MOTT GRN FLAKEY TO SPLNTY DK GY, CALC 5% PYR

SS; CLR VF GR MED TO HD TT, SME CALC, WH-GRN LAM CLAY, BLK TARRY INTR GR STNG, SME PYRITIC MATRIX & PYRITIZED SS N/O, BLK TO DK PURPL FLOR, SLOW MILKY STRM CUT , 15% PYR,

SH; LT GY GY GRN FLAKEY TO SQUARE BLKY CALC, TRACE FOSS

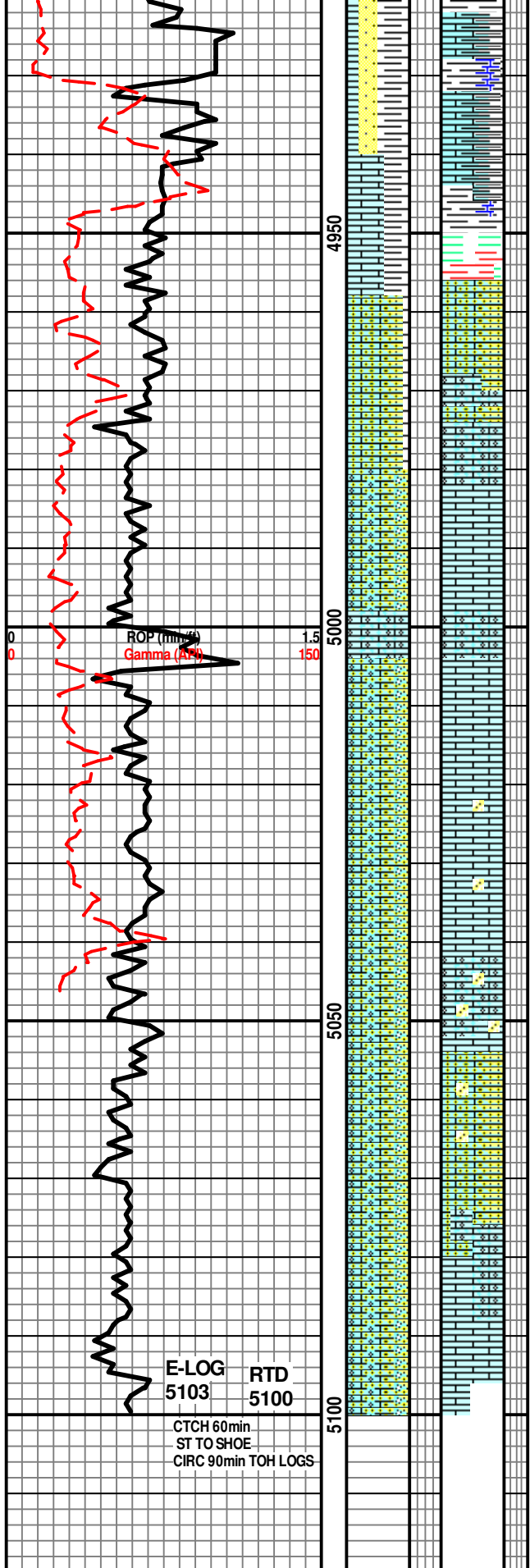


Scale Change TG, C1-C5 250

SRV 4767
INCL 6.20 AZI 46.73
TVD 4741.96

TG, C1-C5 250

SRV 4851
INC 6.02 AZI 47.96
TVD



ST GEN 4958-

SH; MED GRN HD BLKY TR MAROON

LS; CRM TN SME SLI GYISH TINT, VF AREN SME OOL PELL. PURPL FLOR NSOC N/O

LS; CRMISH WH PRED VF AREN SME VF OOL, ABDT CRM WH CHLK, MED PURPL FLOR NSOC

TN HD DNS XLN W/SHDW VF OOLPELL

LS; CRM-TN VF F OOL., CRM WH CHLK W/CLR RD F-QTZ SME OOL, INCRS GYISH SLI CRM WH AREN W/VF BLK MIN SPKS, PURPL FLOR NSOC

GYISH WH AREN LS

LS; SLI GYISH TN VF OOL PELL, TR CHLK W/MED OOL (1), IMBD VF CR RDS QTZ IP, CRM WH CHLK, W/VF OL, PURPLE FLOR NSOC

THANKS FOR USING
MBC WELL LOGGNG
AUSTIN & MARLA GARNER

SRV MD 4945
INC 5.58° AZI 50.68
TVD 4929.94

TG, C1-C5 250

SRV MD 5009
INC 4.92 AZI 48.05
TVD 4993.07

E-LOG RTD
5103 5100

CTCH 60min
ST TO SHOE
CIRC 90min TOH LOGS



QUASAR ENERGY SERVICES, INC.

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

Form 185-2c

3/4/22
 CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY		Well Name: MCWILLIAMS E#11	
Type Job: Cement- Surface		AFE #:	
CASING DATA			
Size:	13 3/8	Grade:	J55
		Weight:	48
Casing Depths	Top: 15	Bottom: 126.47	
Drill Pipe:	Size:	Weight:	
Tubing:	Size:	Weight:	Grade:
Open Hole:	Size: 17 1/2	T.D. (ft): 128	TD (ft): 128
Perforations	From (ft):	To:	Packer Depth(ft):

CEMENT DATA			
Spacer Type:			
Amt.	Sks Yield	ft³/sk	Density (PPG)
LEAD:	CLASS C -- 3% CC, 1/2# CELLFLAKE		Excess
Amt.	200	1.33	14.8
TAIL:			Excess
Amt.	Sks Yield	ft³/sk	Density (PPG)

WATER:			
Lead:	gals/sk: 6.3	Tail:	gals/sk:
			Total (bbls):
Pump Trucks Used: 110 -- DP7			
Bulk Equipment: 227 -- 660-23			
Disp. Fluid Type:	FRESH WATER	Amt. (Bbls.) 17.5	Weight (PPG): 8.33
Mud Type:		Weight (PPG):	

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

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
0130	3/4/22					ON LOCATION -- SPOT AND RIG UP	
0445						CASING ON BOTTOM -- BREAK CIRC	
0513	200				47	4	START MIXING 200 SK TAIL @ 14.8 PPG
0529	100				17.5	4	START DISPLACING WITH FRESH WATER
0535	150						SHUT DOWN -- SHUT IN WELL
0536	150-0						RELEASE PRESSURE
					20		CIRCULATE CEMENT TO SURFACE

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

Form 185-2c

3/5/22

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY			Well Name: MCWILLIAMS E#11			
Type Job: Cement- Surface			AFE #:			
CASING DATA						
Size:	8 5/8	Grade:	J55	Weight:	24	
Casing Depths	Top: 38.52	Bottom:	1828			
Drill Pipe:	Size:	Weight:				
Tubing:	Size:	Weight:		Grade:	TD (ft): 1839	
Open Hole:	Size: 12 1/4	T.D. (ft): 1839				
Perforations	From (ft):	To:	Packer Depth(ft):			
CEMENT DATA						
Spacer Type:						
Amt.		Sks Yield		ft³/sk	Density (PPG)	
LEAD:	CLASS A -- 2% GYP, 2% SMS, 3% CC, 1/4# CELLFLAKE				Excess	
Amt.	530	Sks Yield	2.39	ft³/sk	Density (PPG) 12.1	
TAIL:	CLASS A -- 2% CC, 1/4# CELLFLAKE				Excess	
Amt.	165	Sks Yield	1.19	ft³/sk	Density (PPG) 15.6	
WATER:						
Lead:	gals/sk:	14	Tail:	gals/sk:	5.2 Total (bbls):	
Pump Trucks Used:	110 -- DP7					
Bulk Equipment:	229 -- 660-23 / 189 -- 660-21					
Disp. Fluid Type:	FRESH WATER	Amt. (Bbls.)	113.8	Weight (PPG):	8.33	
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	RATE	
1100						ON LOCATION -- SPOT AND RIG UP
1400						CASING ON BOTTOM -- BREAK CIRC
1427	2100					PRESSURE TEST
1429	300			226	6	START MIXING 530 SK LEAD @ 12.1 PPG
1508	350			35	5.5	START MIXING 165 SK TAIL @ 15.6 PPG
1518						SHUT DOWN -- DROP TOP PLUG
1521	300			0	5	START DISPLACING WITH FRESH WATER
1538	600			104	3	SLOW RATE
1543	600-1100			114		BUMP PLUG
1544	1100-0					RELEASE PRESSURE -- FLOAT HELD
				50		CIRCULATE CEMENT TO THE PIT



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Form 185-2c

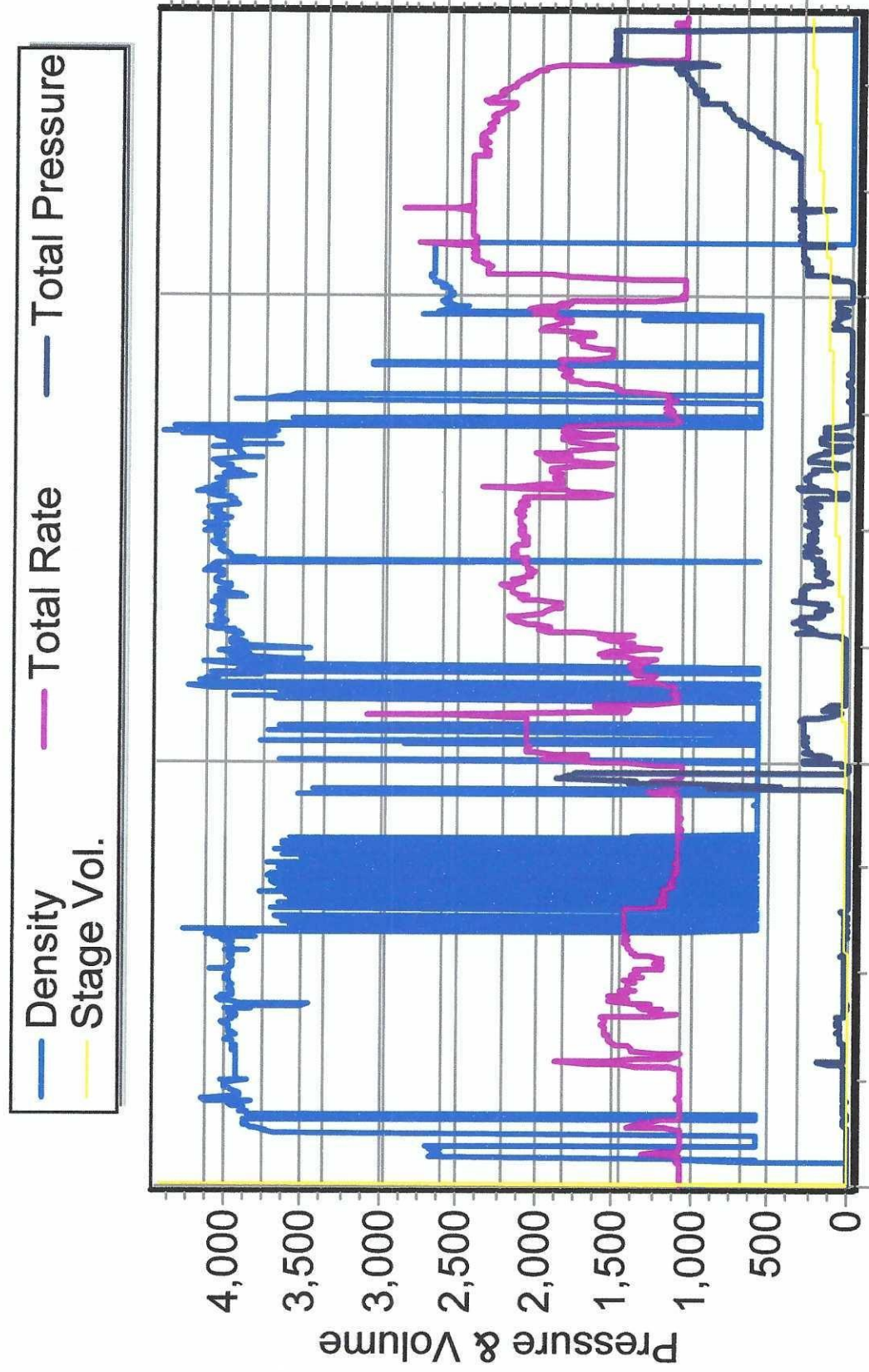
3/9/22

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Merit Energy Company			Well Name: McWilliams E#11			
Type Job: Cement- Production			AFE #: 69515			
CASING DATA						
Size:	5 1/2	Grade:	J-55	Weight:	17	
Casing Depths	Top:	Bottom:	5074'			
Drill Pipe:	Size:	Weight:	Packer:			
Open Hole:	Size: 7 7/8	T.D. (ft):	5100	Perfs.:		
CEMENT DATA						
Spacer Type:	5BBL H2O, 12BBL SUPER FLUSH, 5BBL H2O					
Amt.	Sks Yield	0	ft³/sk	Density (PPG)		
Tail:	Class A: 10%Salt, 6%Gyp, .5% C-15, 5#/sk Kol-Seal, 2% Gel1/4# Celloflake				Excess	
Amt.	210	Sks Yield	329.7	ft³/sk	1.57	
Rat&M:	Class: A 60/40/4 Plug Rat & Mouse				Excess	
Amt.	50	Sks Yield	73	ft³/sk	1.46	
WATER:						
Lead:	210	gals/sk:	7.1	Tail:	50	
		gals/sk:	7.16	Total (bbls):	44.0	
Pump Trucks Used:	04, DP03					
Bulk Equipment:	228, 660-20					
Disp. Fluid Type:	Water 6%KCL	Amt. (Bbls.)	116.6	Weight (PPG):	8.33	
COMPANY REPRESENTATIVE:	Rodney		CEMENTER:	Daniel Beck		
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
12:00						ON LOCATION & SAFETY MEETING
13:00						RIG TO CIRCULATE
13:36						RIG TO PT
13:45				13.0	slurry	PLUG RAT & MOUSE
14:14						PRESSURE TEST TO 2400PSI
14:15	350			22	5.4	PUMP 22BBL SPACER
14:26	400			58.7	slurry	PUMP 210SX @ 14.6#
14:41						SHUTDOWN / DROP PLUG / WP
14:52	420			10 THRU 40	7.4	DISPLACE
	450			50	7.4	
	450			60	7.4	
	600			70	7.4	
	750			80	7.2	
	950			90	6.7	
	1150			100	6.4	
	1300			106	5.3	
15:09	1300			116.6	5.3	LAND PLUG / PRESSURE UP TO 1800PSI
15:11						RELEASE BACK --- PLUG HELD
						JOB COMPLETE
14:30						
14:39						DISPLACE
Company:	Merit Energy Company			Well Name:	McWilliams E#11	
Type Job:	Cement- Production			AFE #:	69515	
Date:	3/9/2022	CEMENTING JOB LOG		QUASAR ENERGY SERVICES, INC. 185-2		

Merit Energy Company McWilliams E#1



3/9/2022 1:44:09 PM 3/9/2022 2:16:22 PM 3/9/2022 2:51:40 PM