

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

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WOLVERINE 1
Doc ID	1718188

All Electric Logs Run

ANNULAR HOLE VOLUME
ARRAY COMPENSATED TRUE RESISTIVITY LOG
BOREHOLE COMPENSATED SONIC ARRAY LOG
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG
MICROLOG
QUAD COMBO LOG
QUAD COMBO LOG TVD

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Tops

Name	Top	Datum
Heebner	3971	.
Lansing	4062	.
Marmaton	4581	.
Altamont	4603	.
Pawnee	4670	.
Ft. Scott	494	.
Cherokee	4716	.
Atoka	4832	.
Morrow	4934	.
L. Morrow	5012	.
St Genevieve	5073	.

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	WOLVERINE 1
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	170	A	655	SEE ATTACHED
Production	7.875	5.5	17	5186	A	185	SEE ATTACHED

Merit Energy
Finney County, Kansas (NAD27)
Site: Wolverine
Well: Wolverine 1
Wellbore #1 - Design #2
GLE: 2917.30
RKB: 2929.55

Stryker Directional

Measured			Vertical			Map	Map			Vertical	Dogleg	
Depth	Incl.	Azim.	Depth	Northings	Eastings	North	East	Latitude	Longitude	Section	Rate	Comments
(ft)	°	°	(ft)	(ft)	(ft)	(ft)	(ft)			(ft)	(deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	440553.42	1303543.66	37.85	-100.91	0.00	0.00	

2100.00	2.00	317.94	2099.98	1.30	-1.17	440554.72	1303542.49	37.85	-100.91	1.75	2.00
2200.00	4.00	317.94	2199.84	5.18	-4.68	440558.60	1303538.98	37.85	-100.91	6.98	2.00
2300.00	6.00	317.94	2299.45	11.65	-10.51	440565.07	1303533.15	37.85	-100.91	15.69	2.00
2400.00	8.00	317.94	2398.70	20.70	-18.68	440574.12	1303524.98	37.85	-100.91	27.88	2.00
2500.00	10.00	317.94	2497.47	32.31	-29.16	440585.73	1303514.50	37.85	-100.91	43.52	2.00
2600.00	12.00	317.94	2595.62	46.48	-41.94	440599.90	1303501.72	37.85	-100.91	62.60	2.00
2700.00	14.00	317.94	2693.06	63.18	-57.01	440616.60	1303486.65	37.85	-100.91	85.10	2.00
2771.46	15.43	317.94	2762.17	76.65	-69.17	440630.07	1303474.49	37.85	-100.91	103.25	2.00
2800.00	15.43	317.94	2789.68	82.29	-74.25	440635.71	1303469.41	37.85	-100.91	110.84	0.00
2900.00	15.43	317.94	2886.08	102.04	-92.08	440655.46	1303451.58	37.85	-100.91	137.44	0.00
3000.00	15.43	317.94	2982.47	121.80	-109.90	440675.22	1303433.76	37.85	-100.91	164.05	0.00
3100.00	15.43	317.94	3078.87	141.55	-127.72	440694.97	1303415.94	37.85	-100.91	190.65	0.00
3200.00	15.43	317.94	3175.27	161.30	-145.55	440714.72	1303398.11	37.85	-100.91	217.26	0.00
3300.00	15.43	317.94	3271.66	181.05	-163.37	440734.47	1303380.29	37.85	-100.91	243.86	0.00
3400.00	15.43	317.94	3368.06	200.81	-181.19	440754.23	1303362.47	37.85	-100.91	270.47	0.00
3500.00	15.43	317.94	3464.45	220.56	-199.01	440773.98	1303344.65	37.85	-100.91	297.07	0.00
3600.00	15.43	317.94	3560.85	240.31	-216.84	440793.73	1303326.82	37.85	-100.91	323.68	0.00
3700.00	15.43	317.94	3657.25	260.06	-234.66	440813.48	1303309.00	37.85	-100.91	350.28	0.00
3800.00	15.43	317.94	3753.64	279.81	-252.48	440833.23	1303291.18	37.85	-100.91	376.89	0.00
3900.00	15.43	317.94	3850.04	299.57	-270.31	440852.99	1303273.35	37.85	-100.91	403.49	0.00
4000.00	15.43	317.94	3946.43	319.32	-288.13	440872.74	1303255.53	37.85	-100.91	430.10	0.00
4100.00	15.43	317.94	4042.83	339.07	-305.95	440892.49	1303237.71	37.85	-100.91	456.70	0.00
4200.00	15.43	317.94	4139.23	358.82	-323.77	440912.24	1303219.89	37.85	-100.91	483.31	0.00
4300.00	15.43	317.94	4235.62	378.58	-341.60	440932.00	1303202.06	37.85	-100.91	509.91	0.00
4400.00	15.43	317.94	4332.02	398.33	-359.42	440951.75	1303184.24	37.85	-100.91	536.51	0.00
4500.00	15.43	317.94	4428.41	418.08	-377.24	440971.50	1303166.42	37.85	-100.91	563.12	0.00
4587.28	15.43	317.94	4512.55	435.32	-392.80	440988.74	1303150.86	37.85	-100.91	586.34	0.00
4600.00	15.43	317.94	4524.81	437.83	-395.07	440991.25	1303148.59	37.85	-100.91	589.72	0.00
4700.00	15.43	317.94	4621.21	457.58	-412.89	441011.00	1303130.77	37.85	-100.91	616.33	0.00
4800.00	15.43	317.94	4717.60	477.34	-430.71	441030.76	1303112.95	37.85	-100.91	642.93	0.00
4900.00	15.43	317.94	4814.00	497.09	-448.54	441050.51	1303095.12	37.85	-100.91	669.54	0.00
5000.00	15.43	317.94	4910.39	516.84	-466.36	441070.26	1303077.30	37.85	-100.91	696.14	0.00
5100.00	15.43	317.94	5006.79	536.59	-484.18	441090.01	1303059.48	37.85	-100.91	722.75	0.00
5200.00	15.43	317.94	5103.19	556.35	-502.00	441109.77	1303041.66	37.85	-100.91	749.35	0.00

5300.00	15.43	317.94	5199.58	576.10	-519.83	441129.52	1303023.83	37.85	-100.91	775.96	0.00
5322.00	15.43	317.94	5220.79	580.44	-523.75	441133.86	1303019.91	37.85	-100.91	781.81	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
 Vertical depths are relative to GL: 2917.3' + 12.25' KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
 Vertical Section is from Slot and calculated along an Azimuth of 317.939° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), Kansas South 1502.
 Central meridian is -98.500°.
 Grid Convergence at Surface is -1.482°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 5322.00ft.,
 the Bottom Hole Displacement is 781.81ft., in the Direction of 317.939° (Grid).

Well Name:	Wolverine 1		
API:	15-055-22564-00-00		
Location:	2132' fwl, 2499' fnl, Sec 26-T25S-R33W, Flinney County KS		
License Number:		Region:	Wildcat
Spud Date:	2/4/2023	Drilling Completed:	2/8/2023
Surface Coordinates:	Lat: 37.8518530°		
	Long: -100.9123960°		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2917.3	K.B. Elevation (ft):	2930
Logged Interval (ft):	3850 To: 5225	Total Depth (ft):	5225
Formation:	Primary: MRMN GRP, Secondary: Ft Scott, Pawnee, Cherokee, Chester, St Louis		
Type of Drilling Fluid:	Water Based Mud		

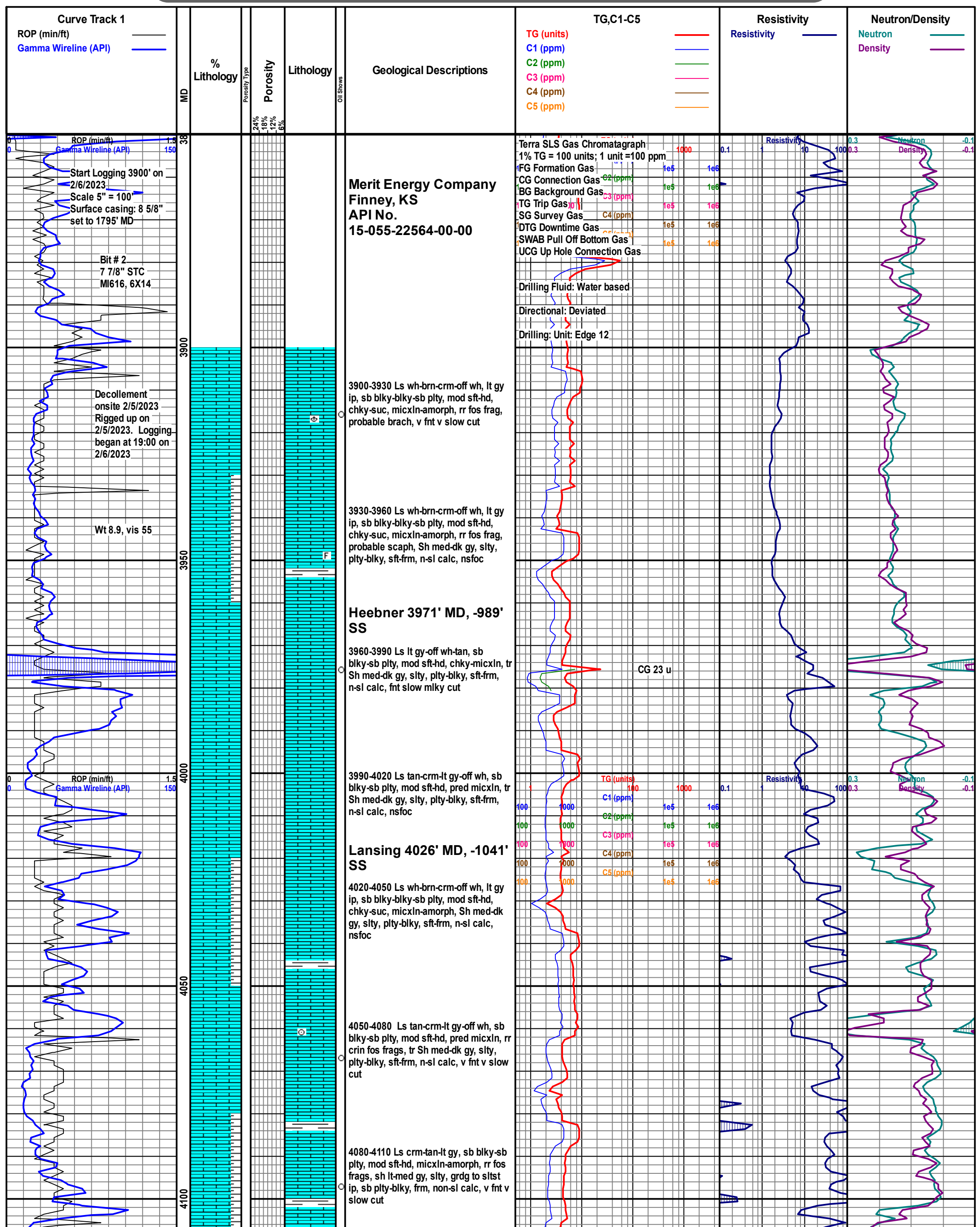
Company: Merit Energy Company
Address: 13727 Noel Rd., Suite 1200
Dallas, TX 75240

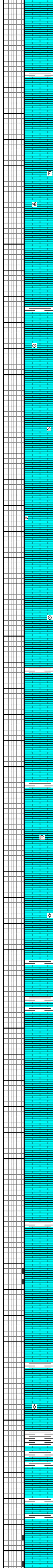
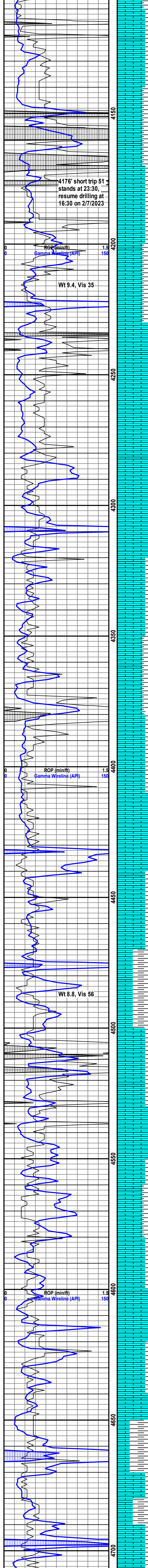
Name: Brian Reddick
Company: Decollement Consulting, Inc.
Address: 13300 Braun Rd.
Golden, CO 80401

	Anhy		Congl		Mrlst		Slst
	Bent		Dol		Salt		Ss
	Brec		Gyp		Sh rdbn		Till
	Cht		Igne		Shale		
	Clyst		Lmst		Shcol		
	Coal		Meta		Shav		

[illegible]

POROSITY	SORTING	Angular	INTERVAL
Earthy	Well	Angular	Core
Fenest	Moderate	OIL SHOW	Dst
Fracture	Poor	Even	EVENT
Inter		Spotted	Rft
Moldic	ROUNDING	Ques	Sidewall
Organic	Rounded	Dead	New symbol
Pinpoint	Subrnd		
Vuggy	Subang		





4110-4140 Ls crm-tan-lt gy, sb blkly-sb ply, mod sft-hd, micxln-amorph, rr fos frags, sh lt-med gy, slty, grdg to sltst ip, sb ply-blky, frm, non-sl calc, v fnt v slow cut

4140-4170 Ls crm-tan-lt gy, sb blkly-sb ply, mod sft-hd, micxln-amorph, sh lt-med gy, slty, grdg to sltst ip, sb ply-blky, frm, non-sl calc, g tr red green shale cavings, nsfoc

4176' short trip 51 stands at 23:30, resume drilling at 16:30 on 2/7/2023

ROP (min/ft)
Gamma Wireline (API)

Wt 9.4, Vis 35

4170-4200 Ls crm-tan-lt gy, sb blkly-sb ply, mod sft-hd, micxln-amorph, rr fusil, rr oo, sh lt-med gy, slty, grdg to sltst ip, sb ply-blky, frm, non-sl calc, g tr red green shale cavings, flash cut

4200-4230 Ls crm-tan-lt gy, sb blkly-sb ply, mod sft-hd, micxln, occ chky-amorph, rr styl, sh lt-med gy, slty, grdg to sltst ip, sb ply-blky, frm, non-sl calc, g tr red green shale cavings

Iola 4242' MD, -1249' SS

4230-4260 Ls crm-tan-off wh, sb blkly-blky-sb ply, frm-hd, pred mic xln, occ chky-amorph, occ styl, rr crin fos frags, rr lt gy-tan chrt

4260-4290 Ls off wh-crm-tan, sb blkly-blky, frm-hd, pred mic xln, occ f xln, occ chky, occ styl, rr lt gy-trnsl chrt frags

4290-4320 Ls off wh-crm-tan, sb blkly-blky, frm-hd, pred mic xln, occ f xln, occ chky, occ styl, rr lt gy-trnsl chrt frags

4320-4350 Ls tan-lt gy-off wh, crm-buff ip, blkly-sb blkly-pty, pred mic sin, occ chky-amorph, occ styl, rr crin fos frags, tr dk gy sh

4350-4380 Ls tan-brn-off wh-crm, mott ip, occ fos frags, sb blkly, occ blkly-pty, frm-hd, mic xln ip, amorph-chky ip, Sh lt-dk gy, slty, non-sl calc, ply-blky, frm-sft

4380-4410 Ls lt gy-tan, occ crm-off wh, sb blkly-blky, occ ply, frm-hd, mic-crpxln, occ chky, pred cln, occ fos frags, tr lt gy-med gy sh

4410-4440 Ls crm-off wh, cln, sb blkly-blky, frm-hd, mic xln-chky, rr styl, rr c xln euhedral pyr

Swope 4442' MD, -1441 SS

4440-4470 Ls lt gy-tan-brn, occ crm-off wh, sb blkly-blky, occ ply, frm-hd, mic-crpxln, occ chky, cln-mod arg, occ oolc, rr styl, tr med gy sh

4470-4500 Ls lt gy-tan, occ crm-off wh, sb blkly-blky, occ ply, frm-hd, mic-crpxln, occ chky, pred cln, occ fos frags, abnt Sh med-dk gy, sb blkly-pty, non-sl calc, slty ip, grdg to sltst ip

4500-4530 Ls lt gy-tan, occ crm-off wh, sb blkly-blky, occ ply, frm-hd, mic-crpxln, occ chky, pred cln, occ fos frags, occ med-dk gy sh, occ blk carb sh

4530-4560 Ls lt gy-tan, occ crm-off wh-brn, mott ip, sb blkly-blky, frm-hd, mic-crpxln, occ fos frags, occ pel, tr sh med-dk gy, ply-sb ply, slty, sl-non calc

4560-4570 Ls crm-lt gy-tan-off wh, sb blkly-blky, frm-hd, pred cln, occ fos frags, tr med gy slty sh a/a

4570-4580 Ls tan-crm-lt gy, sb blkly-blky, frm-hd, occ mott, rr fos frags, g tr sh gy, slty, non calc

MRMNT group 4581' MD, -1573' SS

4580-4590 Ls tan-crm-lt gy, sb blkly-blky, frm, tr slty gy sh a/a

4590-4600 Ls tan-crm, lt gy-off wh, sb blkly-sb ply, cln, tr vuggy por with possible oil stain

4600-4610 Ls tan-crm-lt gy, sb blkly-blky, frm-hd, occ mott, rr fos frags, rr gy sh

Altamont 4603' MD, -1595' SS

4610-4620 Ls lt gy-tan-crm-off wh, sb blkly-blky, frm-hd, occ mott, rr fos frags, g tr sh gy

4620-4630 Ls crm-lt gy-tan-off wh, sb blkly-blky, frm-hd, pred cln, occ fos frags, tr med gy slty sh

4630-4640 Ls crm-lt gy-tan-off wh, sb blkly-blky, frm-hd, pred cln, occ fos frags, tr med gy slty sh a/a

4640-4650 Ls mott-crm, blkly-pty, abnt fos frags, oo, pel, frm-hd, mod arg, rr gy slty sh

4650-4660 Sh dk gy-blk, splty-pty, occ sb blkly, frm, carb ip, rthy-sl slty, non-sl calc, abnt lt gy-crm ls

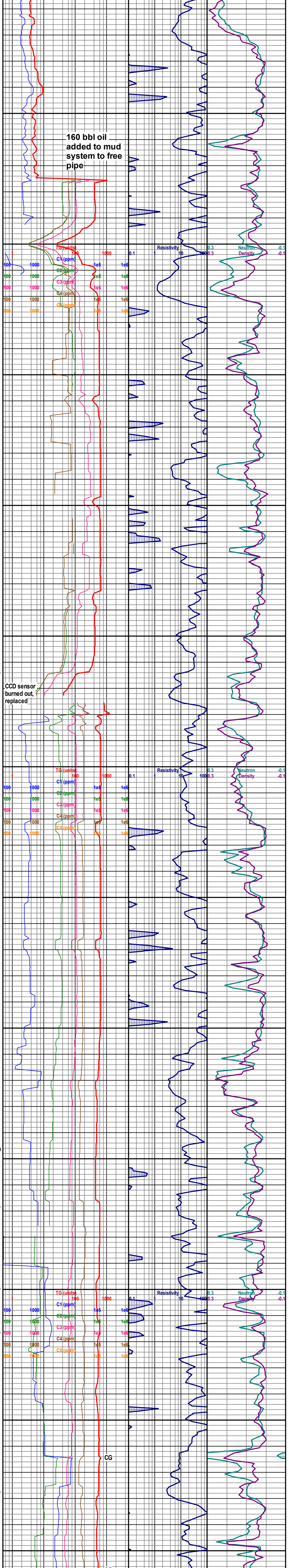
4660-4670 Sh med-dk gy, sb blkly-sb ply, frm, slty, abnt gy-crm-mott ls

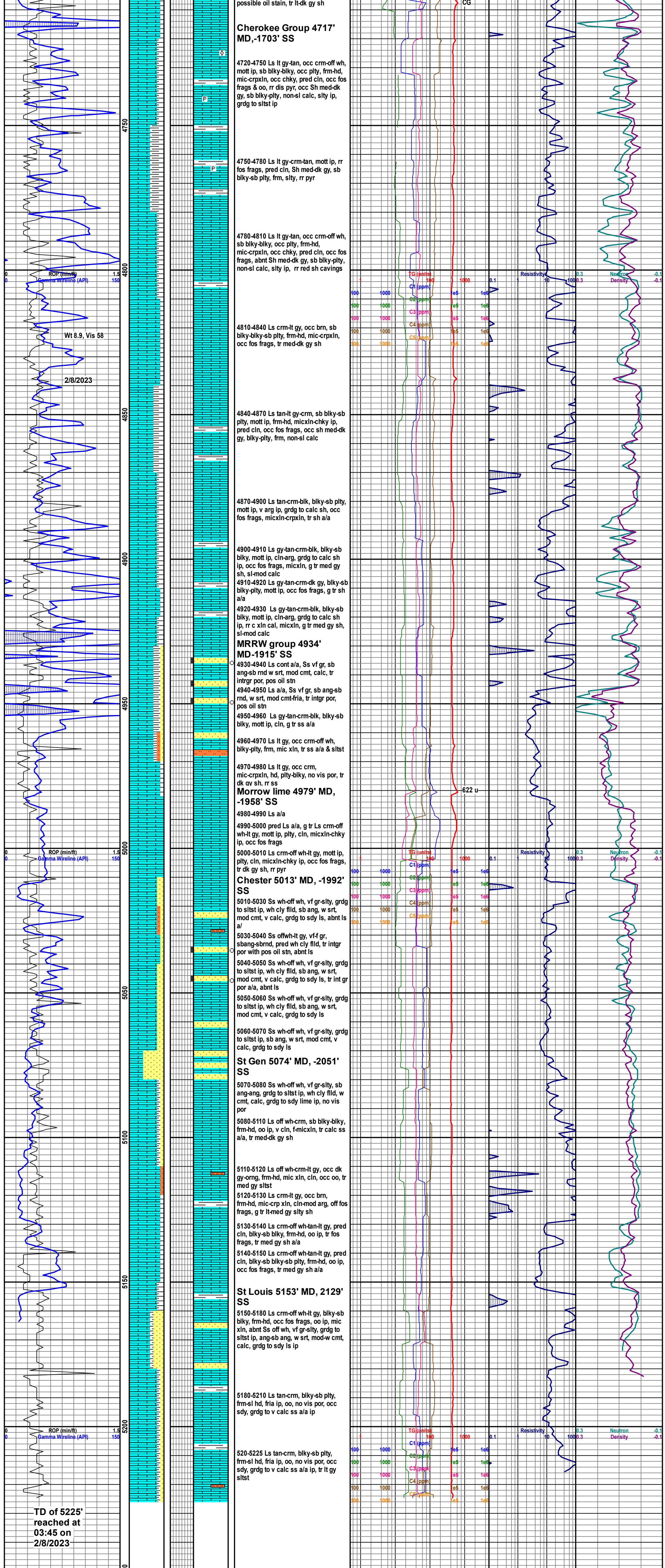
Pawnee 4671' MD, -1659' SS

4670-4680 Ls lt gy-tan-crm-off wh, sb blkly-blky, frm-hd, occ mott, rr fos frags, tr sh a/a

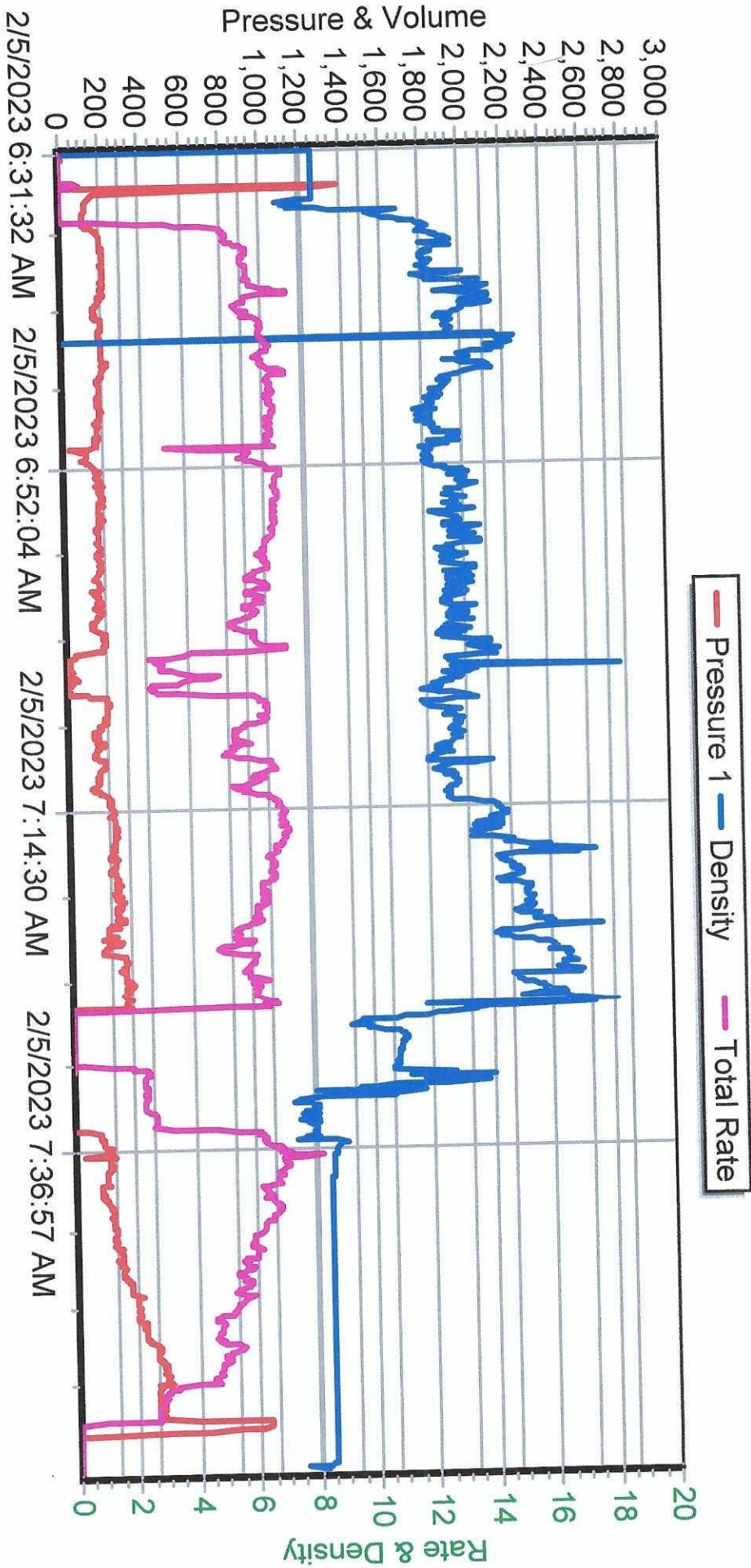
4680-4690 Ls lt gy-crm-tan, mott ip, rr fos frags, pred cln, abnt Sh med-dk gy, sb blkly-sb ply, frm, slty

4690-4720 Ls tan-crm-brn-gy, lt gy-off wh, mott, abnt fos frags & oo, sb blkly-sb ply, cln, tr vuggy por with





WOLVERINE #1



MERIT ENERGY COMPANY
WOLVERINE #1
5.5" LONGSTRING
02/09/2023

