

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MTU 403
Doc ID	1717306

All Electric Logs Run

ANNULAR HOLE VOLUME LOG 5 CASING
ARRAY CONDUCTION 1 INCH LOG
ARRAY CONDUCTION 2 INCH LOG
ARRAY CONDUCTION 5 INCH LOG
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG
DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY INDUCTION
MICROLOG

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Operator	Merit Energy Company, LLC
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Tops

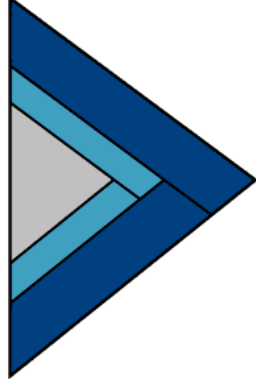
Name	Top	Datum
Heebner	3924	.
Toronto	3940	.
Lansing	4018	.
Iola	4161	.
Swope	4351	.
Hertha	4405	.
Marmaton	4524	.
Altamont	4548	.
Pawnee	4612	.
Ft Scott	4645	.
Cherokee	4662	.
Atoka	4821	.
Morrow	4872	.
Chester	4942	.
St Genevieve	5000	.

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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	1832	Class A	665	See Attached
Production	7.875	5.5	17	5067	Class A	170	See Attached

Décollement Consulting Inc.



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

Well Name: MTU 403
API: 15-055-22575-01-00
Location: 300' fel 2417' fnl, Sec 28, T24S, R33W, Finney County KS
License Number: 2/12/2023
Spud Date: 2/12/2023
Surface Coordinates: Lat: 37.939274° Long: -100.939018°
Bottom Hole Coordinates:
Ground Elevation (ft): 2888
Logged Interval (ft): 3900 To: 5070
Formation: Primary: Chester Ss
Type of Drilling Fluid: Water Based Mud
K.B. Elevation (ft): 2900
Total Depth (ft): 5070
Region: Wildcat
Drilling Completed: 2/15/2023
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

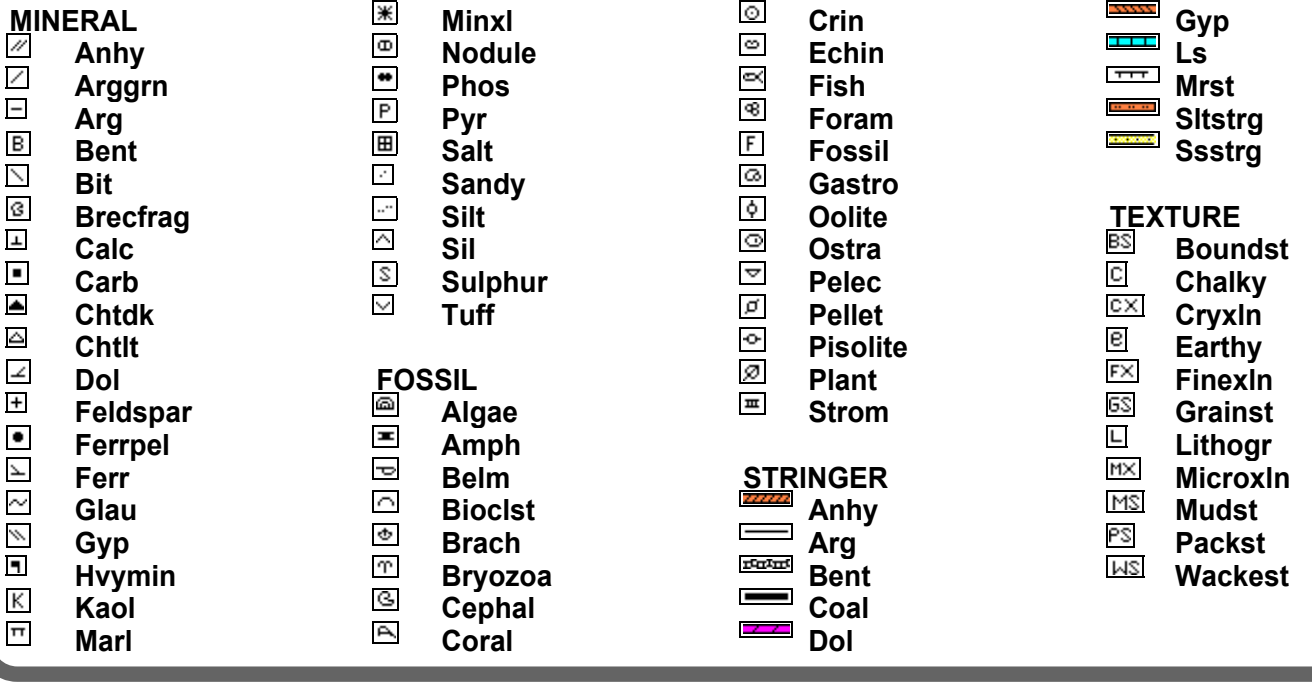
GEOLOGIST

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

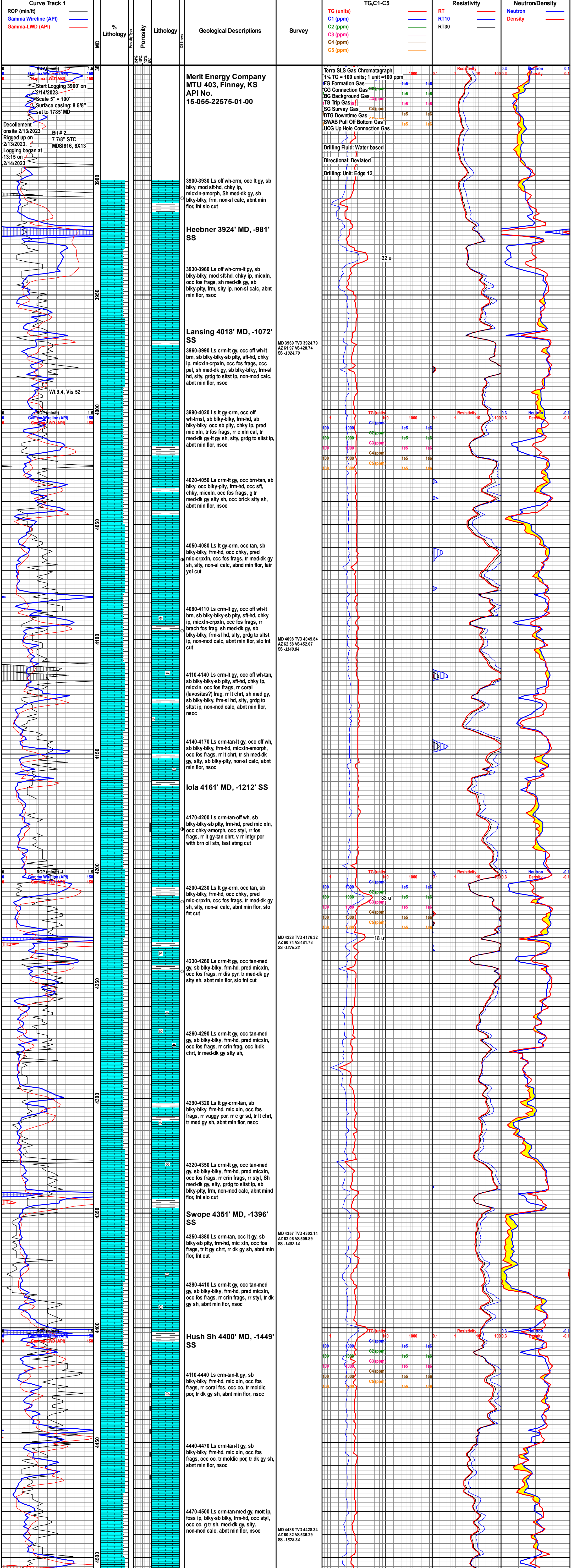
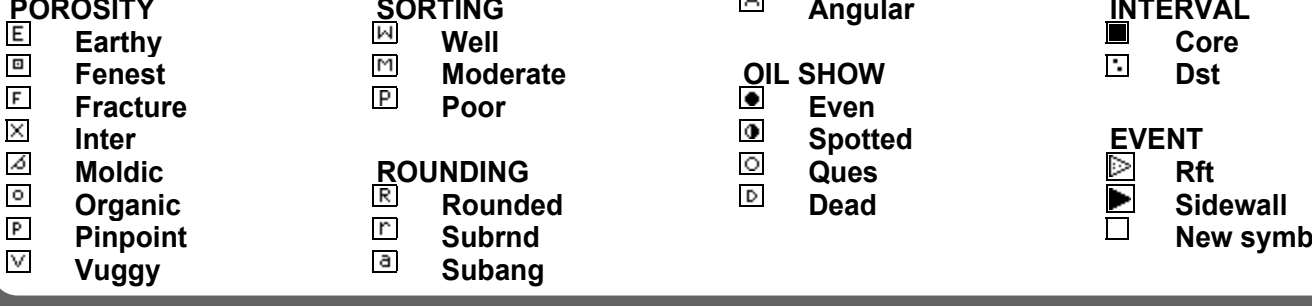
ROCK TYPES

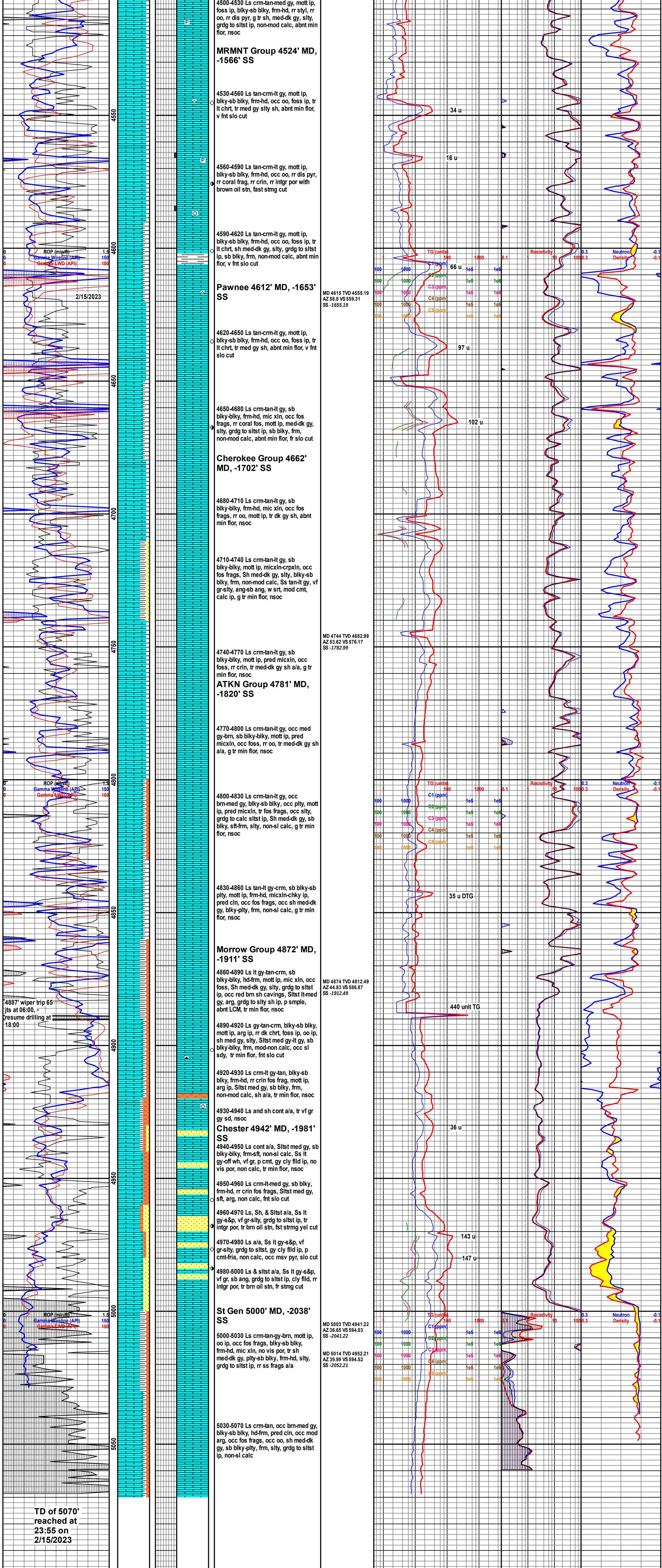


ACCESSORIES



OTHER SYMBOLS







Survey Report

Service Company: Black Diamond

Location: Garden City

Well: MTU 403

Rig: Edge 12

API or UWI: 71758

Job Number:

State: Kansas

Operating Company: Merit Energy

County: USA

Magnetic Declination: 0

Country: Finney County

Proposed Azimuth: 70.42

Comment:

North Reference: GRID

Latitude: 37.939274

Longitude: -100.939018

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS
185.00	0.18	71.20	185.00	0.09	0.28	71.20	0.29	0.29
277.00	0.88	133.25	277.00	-0.34	0.93	110.36	0.99	0.76
339.00	0.79	112.07	338.99	-0.83	1.67	116.45	1.86	1.29
421.00	0.70	121.03	420.98	-1.30	2.62	116.39	2.93	2.03
479.00	1.58	22.59	478.97	-0.75	3.23	102.99	3.32	2.80
524.00	0.79	122.52	523.97	-0.34	3.73	95.20	3.75	3.40
565.00	0.88	111.89	564.96	-0.61	4.26	98.13	4.31	3.81
608.00	1.06	122.35	607.96	-0.94	4.91	100.90	5.00	4.31
627.00	1.23	121.73	626.95	-1.15	5.23	102.37	5.35	4.54
694.00	1.23	121.73	693.94	-1.90	6.45	106.43	6.73	5.44
738.00	1.23	116.99	737.93	-2.37	7.27	108.01	7.65	6.06
781.00	1.41	122.61	780.92	-2.86	8.13	109.38	8.62	6.70
800.00	1.32	115.40	799.91	-3.08	8.53	109.86	9.06	7.00
929.00	1.58	125.60	928.87	-4.75	11.31	112.78	12.27	9.07
972.00	1.58	120.41	971.85	-5.40	12.31	113.68	13.44	9.79
995.00	1.58	120.41	994.84	-5.72	12.85	113.98	14.07	10.19
1040.00	1.67	124.90	1039.83	-6.41	13.93	114.71	15.33	10.97
1083.00	1.58	120.94	1082.81	-7.07	14.95	115.31	16.54	11.71
1126.00	1.85	126.48	1125.79	-7.79	16.02	115.93	17.81	12.48
1212.00	2.29	122.96	1211.73	-9.55	18.57	117.21	20.88	14.30
1254.00	2.55	129.56	1253.70	-10.60	20.00	117.93	22.63	15.29
1298.00	2.73	130.52	1297.65	-11.90	21.55	118.92	24.62	16.31
1489.00	4.04	131.23	1488.31	-19.29	30.07	122.69	35.73	21.86
1661.00	5.54	131.31	1659.71	-28.77	40.86	125.15	49.97	28.86
1748.00	6.16	130.70	1746.25	-34.59	47.55	126.03	58.80	33.21
1791.00	6.42	131.66	1788.99	-37.69	51.10	126.41	63.49	35.51
1900.00	6.95	131.75	1897.25	-46.13	60.57	127.29	76.14	41.61
2029.00	7.21	115.93	2025.28	-54.87	73.68	126.68	91.86	51.03

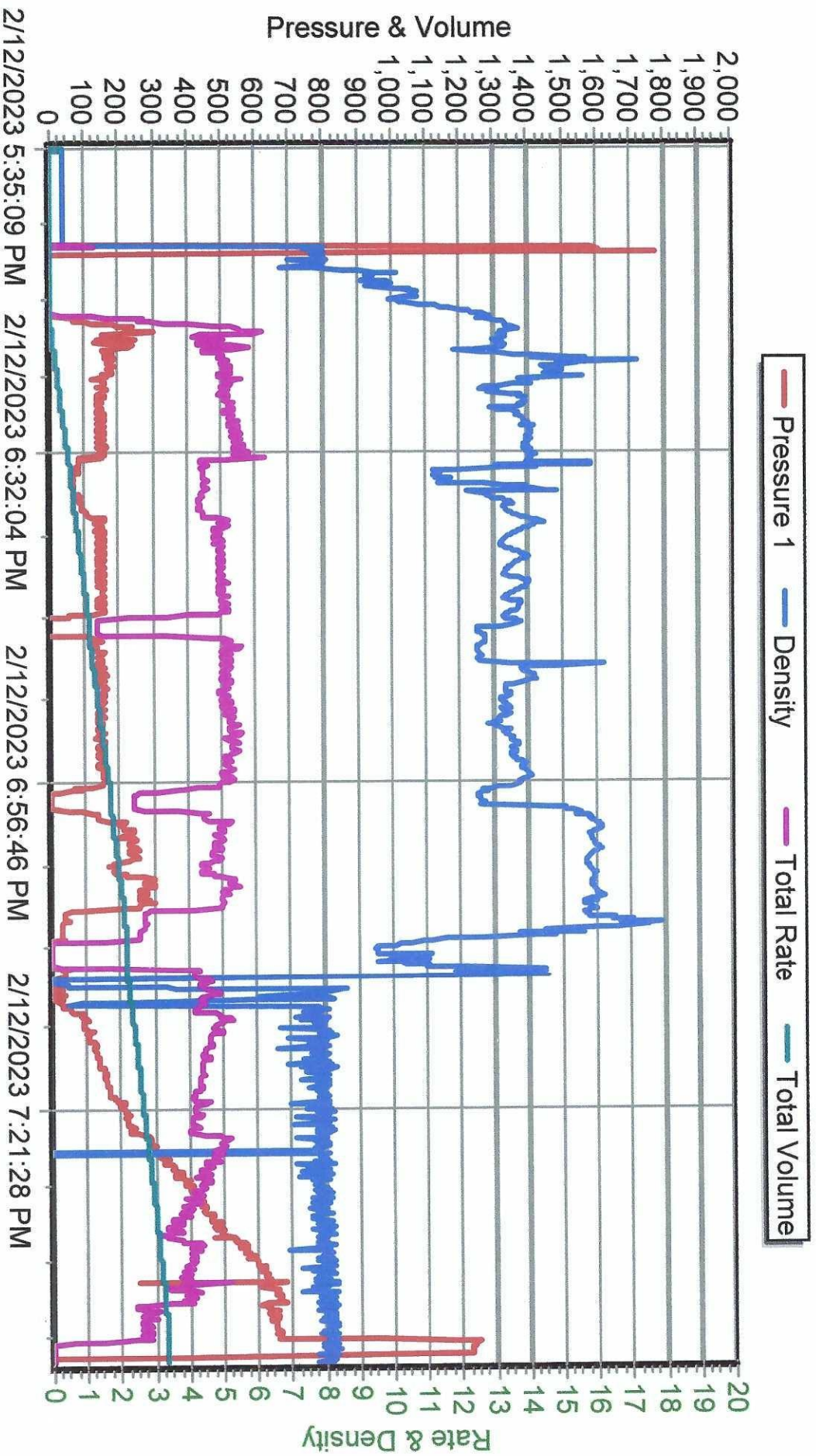
2159.00	6.95	97.74	2154.31	-59.49	88.81	123.82	106.89	63.74
2288.00	6.16	79.37	2282.48	-59.27	103.35	119.83	119.14	77.51
2417.00	5.63	66.80	2410.80	-55.50	115.97	115.57	128.56	90.66
2547.00	7.83	60.91	2539.90	-48.68	129.57	110.59	138.41	105.76
2676.00	10.20	69.53	2667.30	-40.41	147.95	105.28	153.37	125.85
2805.00	13.01	64.43	2793.65	-30.15	171.75	99.96	174.38	151.72
2935.00	14.33	57.31	2919.98	-15.14	198.50	94.36	199.07	181.94
3064.00	14.07	57.40	3045.04	1.93	225.14	89.51	225.15	212.77
3193.00	13.28	61.44	3170.38	17.46	251.37	86.03	251.97	242.68
3322.00	13.81	60.47	3295.79	32.13	277.78	83.40	279.63	272.48
3452.00	11.70	60.21	3422.58	46.33	302.72	81.30	306.24	300.74
3581.00	12.22	57.13	3548.78	60.24	325.54	79.52	331.06	326.90
3710.00	14.25	57.40	3674.34	76.20	350.38	77.73	358.57	355.66
3840.00	15.12	61.88	3800.10	92.82	378.82	76.23	390.02	388.02
3969.00	14.60	61.97	3924.79	108.39	408.01	75.12	422.16	420.74
4098.00	13.81	62.58	4049.84	123.12	436.02	74.23	453.07	452.07
4228.00	12.93	60.74	4176.32	137.37	462.49	73.46	482.46	481.78
4357.00	12.57	62.06	4302.14	151.00	487.48	72.79	510.33	509.89
4486.00	11.34	60.82	4428.34	163.76	510.95	72.23	536.56	536.29
4615.00	9.58	58.80	4555.19	175.51	531.21	71.72	559.45	559.31
4744.00	5.89	53.62	4682.99	185.00	545.73	71.27	576.23	576.17
4874.00	4.22	44.83	4812.49	192.35	554.47	70.87	586.89	586.87
5003.00	3.08	36.65	4941.22	198.49	559.88	70.48	594.03	594.03

DLS
0.10
0.88
0.52
0.18
3.14
4.19
0.44
0.59
0.90
0.00
0.23
0.52
1.02
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0.33
0.00
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0.74
0.53
0.91
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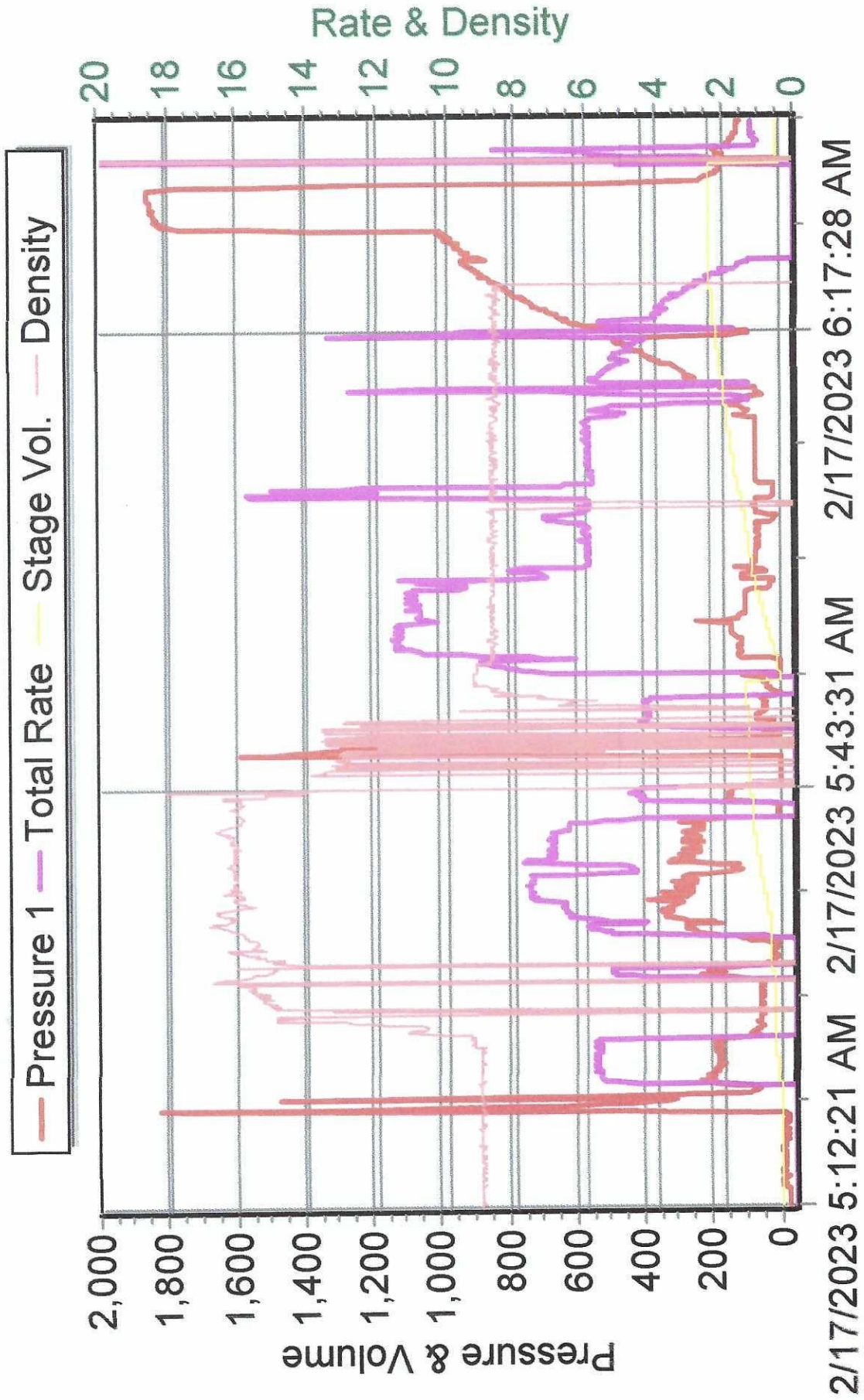
MERIT ENERGY COMPANY
MTU #403
8.625" SURFACE
02/12/2023





Merit Energy Company

MTU 403





MORROW SAND FRAC

MERIT ENERGY COMPANY

PERFS 4960-4985

Well: MTU 403

Field: MORROW SAND FRAC

FINNEY, KS



MORROW SAND FRAC

PERFS 4960-4985

3/9/2023

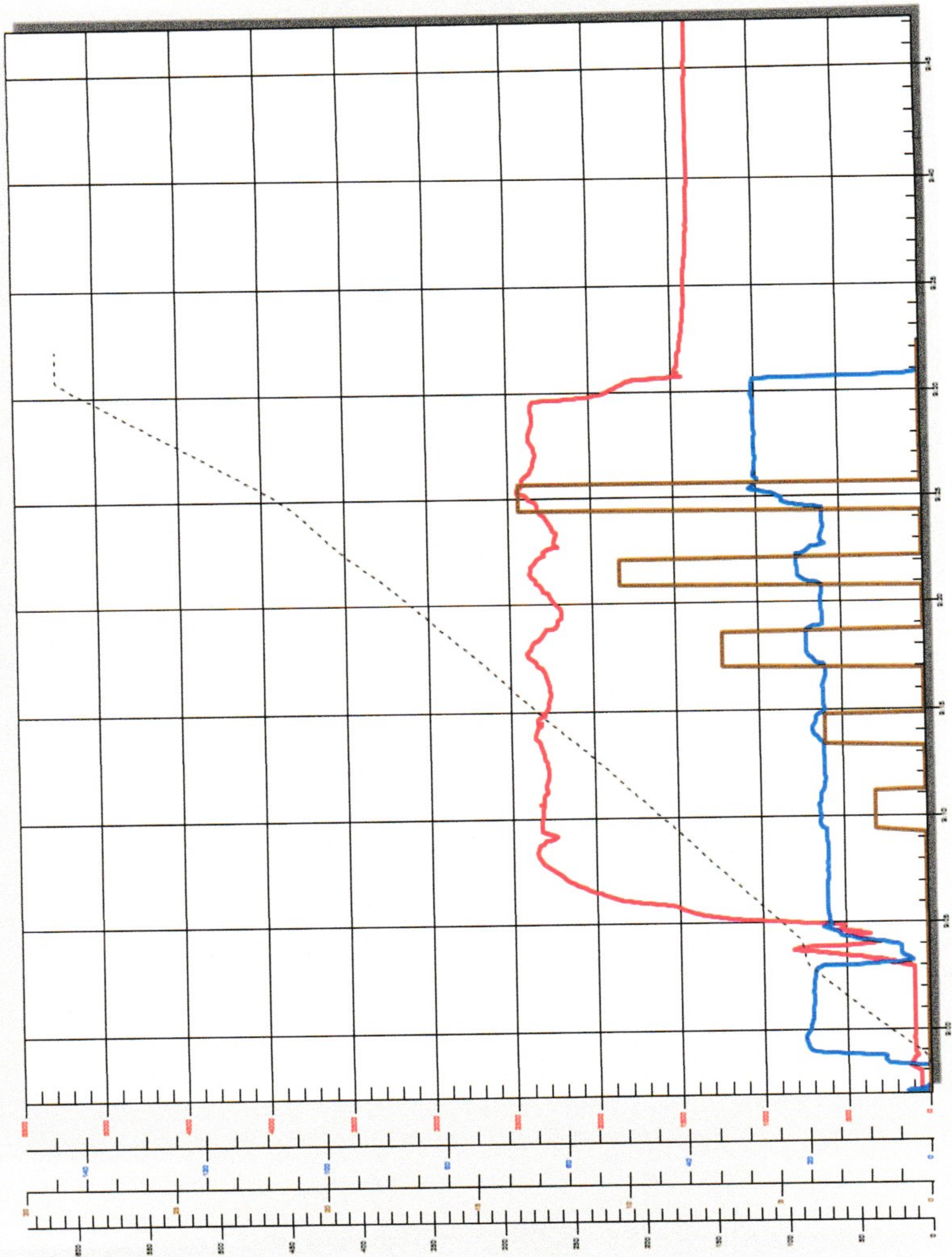
Well: MTU 403

FINNEY, KS

Casing O.D.: 5.5 Wt.: 15.5# Depth:
Formation: MORROW SAND FRAC

MAX PSI	2457.99	AVG PSI	2350
MAX RATE	28.46	AVG RATE	18.30
16/30 AZ	32,140	FOAMER	100

Quasar



Comments with Data

Time	Comment	Pressure 1	Selected Discharge Rate	Discharge Grand Total	Discharge Stage Total
3/9/2023 8:58:18 AM	OPEN WELL	121.12	3.54	0	0
3/9/2023 9:03:03 AM	WELL LOADED 84 BBLS	224.43	9.04	84.92	84.92
3/9/2023 9:03:45 AM	BREAKDOWN	832.69	4.47	87.81	2.49
3/9/2023 9:03:59 AM	ON GEL	342.87	5.53	88.94	3.62
3/9/2023 9:09:21 AM	X LINK PAD	2301.25	16.57	173.91	84.66
3/9/2023 9:11:09 AM	1.66 PPG 16/30	2297.69	16.92	205.4	31.13
3/9/2023 9:13:21 AM	SWEEP	2321.74	16.62	242.02	36.48
3/9/2023 9:14:46 AM	3.30 PPG 16/30	2326.19	18.15	267.43	24.87
3/9/2023 9:16:59 AM	SWEEP	2310.16	16.3	304.32	36.46
3/9/2023 9:18:40 AM	6.67 PPG 16/30	2293.24	19.44	335.72	30.84
3/9/2023 9:20:49 AM	SWEEP	2306.6	16.72	372.58	36.44
3/9/2023 9:22:12 AM	10.00 PPG 16/30	2326.19	20.9	400.35	27.2
3/9/2023 9:24:22 AM	SWEEP	2319.06	16.43	437.53	36.54
3/9/2023 9:25:35 AM	13.33 PPG 16/30	2417.92	27.41	465.84	27.83
3/9/2023 9:25:36 AM	START FLUSH	2419.7	27.22	466.75	28.74
3/9/2023 9:29:55 AM	CUT N2	1937.01	27.77	584.72	117.52
3/9/2023 9:31:03 AM	END FLUSH	1471.23	0.11	606.12	19.25
3/9/2023 9:31:10 AM	ISIP 1461	1462.33	0.11	606.14	19.27
3/9/2023 9:31:11 AM	FRAC GRAD.73	1462.33	0.1	606.14	19.27
3/9/2023 9:36:11 AM	5 MIN	1408	-9999	-9999	-9999
3/9/2023 9:41:11 AM	10 MIN	1387.52	-9999	-9999	-9999
3/9/2023 9:46:11 AM	15 MIN	1381.29	-9999	-9999	-9999

Comments with Data

Time	Comment	Sand Stage Total	Sand Grand Total
3/9/2023 8:58:18 AM	OPEN WELL	0	0
3/9/2023 9:03:03 AM	WELL LOADED 84 BBLs	0	0
3/9/2023 9:03:45 AM	BREAKDOWN	0	0
3/9/2023 9:03:59 AM	ON GEL	0	0
3/9/2023 9:09:21 AM	X LINK PAD	0	0
3/9/2023 9:11:09 AM	1.66 PPG 16/30	2021	2021
3/9/2023 9:13:21 AM	SWEEP	13	2043
3/9/2023 9:14:46 AM	3.30 PPG 16/30	2987	5030
3/9/2023 9:16:59 AM	SWEEP	26	5107
3/9/2023 9:18:40 AM	6.67 PPG 16/30	6702	11809
3/9/2023 9:20:49 AM	SWEEP	53	11954
3/9/2023 9:22:12 AM	10.00 PPG 16/30	8929	20883
3/9/2023 9:24:22 AM	SWEEP	90	21192
3/9/2023 9:25:35 AM	13.33 PPG 16/30	11838	33029
3/9/2023 9:25:36 AM	START FLUSH	12207	33399
3/9/2023 9:29:55 AM	CUT N2	130	33711
3/9/2023 9:31:03 AM	END FLUSH	0	33711
3/9/2023 9:31:10 AM	ISIP 1461	0	33711
3/9/2023 9:31:11 AM	FRAC GRAD.73	0	33711
3/9/2023 9:36:11 AM	5 MIN	-9999	-9999
3/9/2023 9:41:11 AM	10 MIN	-9999	-9999
3/9/2023 9:46:11 AM	15 MIN	-9999	-9999