

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) (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 <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	KATY JACKSON 1-7
Doc ID	1657811

All Electric Logs Run

ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
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	KATY JACKSON 1-7
Doc ID	1657811

Tops

Name	Top	Datum
HEEBNER	3857	.
TORONTO	3880	.
LANSING	3910	.
SWOPE	4267	.
MARMATON	4435	.
PAWNEE	4513	.
FORT SCOTT	4536	.
CHEROKEE	4555	.
ATOKA	4666	.
MORROW	4725	.
MORROW LIME	4803	.
ST GENEVIEVE	4819	.
ST LOUIS	4830	.





MERIT ENERGY

## **Merit Energy Company**

**Finney County, Kansas (NAD 27)**

**Sec 7, T23S, R32W, 6th PM**

**Katy Jackson 1-7**

**Wellbore #1**

**Design: Wellbore #1**

## **Survey Report - Geographic**

**09 April, 2022**



<b>Company:</b>	Merit Energy Company	<b>Local Co-ordinate Reference:</b>	Well Katy Jackson 1-7
<b>Project:</b>	Finney County, Kansas (NAD 27)	<b>TVD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Site:</b>	Sec 7, T23S, R32W, 6th PM	<b>MD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Well:</b>	Katy Jackson 1-7	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

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

<b>Site</b>	Sec 7, T23S, R32W, 6th PM				
<b>Site Position:</b>		<b>Northing:</b>	521,432.13 usft	<b>Latitude:</b>	38° 4' 29.959 N
<b>From:</b>	Map	<b>Easting:</b>	1,319,061.81 usft	<b>Longitude:</b>	100° 51' 56.786 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-1.45 °

<b>Well</b>	Katy Jackson 1-7					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	521,432.13 usft	<b>Latitude:</b>	38° 4' 29.959 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,319,061.81 usft	<b>Longitude:</b>	100° 51' 56.786 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	2,857.9 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2022	3/28/2022	5.63	65.37	51,084.10000000

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	300.73	

<b>Survey Program</b>	<b>Date</b>	4/9/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
100.0	1,731.0	Single Shot Surveys (Wellbore #1)	OWSG GYRO-NS	OWSG Gyrocompass Gyro	
1,841.0	5,000.0	KLX MWD Surveys (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Map Northing (usft)</b>	<b>Map Easting (usft)</b>	<b>Latitude</b>	<b>Longitude</b>	
0.0	0.00	0.00	0.0	0.0	0.0	521,432.13	1,319,061.81	38° 4' 29.959 N	100° 51' 56.786 W	
100.0	0.39	30.32	100.0	0.3	0.2	521,432.43	1,319,061.98	38° 4' 29.962 N	100° 51' 56.784 W	
200.0	1.16	312.79	200.0	1.3	-0.4	521,433.41	1,319,061.41	38° 4' 29.972 N	100° 51' 56.791 W	
300.0	1.04	330.69	300.0	2.8	-1.6	521,434.89	1,319,060.22	38° 4' 29.986 N	100° 51' 56.807 W	
400.0	1.04	320.52	400.0	4.2	-2.6	521,436.38	1,319,059.20	38° 4' 30.001 N	100° 51' 56.820 W	
500.0	1.12	336.61	499.9	5.8	-3.6	521,437.98	1,319,058.24	38° 4' 30.016 N	100° 51' 56.832 W	
600.0	1.16	345.32	599.9	7.7	-4.2	521,439.85	1,319,057.59	38° 4' 30.035 N	100° 51' 56.841 W	
700.0	1.55	353.04	699.9	10.0	-4.6	521,442.17	1,319,057.17	38° 4' 30.057 N	100° 51' 56.847 W	
800.0	1.75	358.64	799.8	12.9	-4.8	521,445.04	1,319,056.97	38° 4' 30.086 N	100° 51' 56.851 W	
900.0	2.00	1.22	899.8	16.2	-4.8	521,448.31	1,319,056.97	38° 4' 30.118 N	100° 51' 56.852 W	
1,000.0	2.18	5.72	999.7	19.8	-4.6	521,451.95	1,319,057.20	38° 4' 30.154 N	100° 51' 56.850 W	

<b>Company:</b>	Merit Energy Company	<b>Local Co-ordinate Reference:</b>	Well Katy Jackson 1-7
<b>Project:</b>	Finney County, Kansas (NAD 27)	<b>TVD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Site:</b>	Sec 7, T23S, R32W, 6th PM	<b>MD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Well:</b>	Katy Jackson 1-7	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,100.0	2.14	6.00	1,099.7	23.6	-4.2	521,455.70	1,319,057.58	38° 4' 30.191 N	100° 51' 56.846 W	
1,200.0	2.25	4.78	1,199.6	27.4	-3.9	521,459.51	1,319,057.94	38° 4' 30.229 N	100° 51' 56.843 W	
1,300.0	2.58	12.29	1,299.5	31.5	-3.2	521,463.67	1,319,058.59	38° 4' 30.270 N	100° 51' 56.836 W	
1,400.0	3.21	13.47	1,399.4	36.5	-2.1	521,468.59	1,319,059.72	38° 4' 30.319 N	100° 51' 56.824 W	
1,500.0	3.02	14.14	1,499.2	41.7	-0.8	521,473.87	1,319,061.01	38° 4' 30.372 N	100° 51' 56.809 W	
1,600.0	2.56	18.74	1,599.1	46.4	0.6	521,478.54	1,319,062.37	38° 4' 30.418 N	100° 51' 56.794 W	
1,700.0	3.39	17.48	1,699.0	51.3	2.2	521,483.47	1,319,063.98	38° 4' 30.467 N	100° 51' 56.775 W	
1,731.0	3.22	12.66	1,729.9	53.1	2.6	521,485.20	1,319,064.45	38° 4' 30.484 N	100° 51' 56.770 W	
<b>Gyro Tie-in @ 1731.0' MD / 1729.9' TVD</b>										
1,841.0	2.90	15.18	1,839.8	58.8	4.0	521,490.89	1,319,065.85	38° 4' 30.541 N	100° 51' 56.754 W	
1,903.0	2.51	15.26	1,901.7	61.6	4.8	521,493.72	1,319,066.62	38° 4' 30.569 N	100° 51' 56.745 W	
1,967.0	2.02	22.03	1,965.6	64.0	5.6	521,496.12	1,319,067.41	38° 4' 30.593 N	100° 51' 56.736 W	
2,031.0	0.92	19.22	2,029.6	65.5	6.2	521,497.65	1,319,068.00	38° 4' 30.608 N	100° 51' 56.729 W	
2,094.0	0.40	5.16	2,092.6	66.2	6.4	521,498.34	1,319,068.19	38° 4' 30.615 N	100° 51' 56.727 W	
2,157.0	0.44	166.52	2,155.6	66.2	6.5	521,498.33	1,319,068.27	38° 4' 30.615 N	100° 51' 56.726 W	
2,253.0	0.53	154.31	2,251.6	65.4	6.7	521,497.57	1,319,068.54	38° 4' 30.608 N	100° 51' 56.723 W	
2,347.0	0.44	174.26	2,345.6	64.7	7.0	521,496.82	1,319,068.77	38° 4' 30.600 N	100° 51' 56.719 W	
2,442.0	0.48	190.25	2,440.6	63.9	6.9	521,496.06	1,319,068.73	38° 4' 30.593 N	100° 51' 56.720 W	
2,536.0	0.40	193.24	2,534.6	63.2	6.8	521,495.36	1,319,068.59	38° 4' 30.586 N	100° 51' 56.721 W	
2,630.0	1.36	276.04	2,628.6	63.0	5.6	521,495.15	1,319,067.40	38° 4' 30.584 N	100° 51' 56.736 W	
2,724.0	3.08	282.28	2,722.5	63.7	2.0	521,495.81	1,319,063.83	38° 4' 30.589 N	100° 51' 56.781 W	
2,819.0	3.82	267.86	2,817.3	64.1	-3.6	521,496.23	1,319,058.17	38° 4' 30.592 N	100° 51' 56.852 W	
2,913.0	4.79	270.32	2,911.1	64.0	-10.7	521,496.14	1,319,051.12	38° 4' 30.589 N	100° 51' 56.940 W	
3,008.0	5.71	276.12	3,005.7	64.5	-19.4	521,496.66	1,319,042.45	38° 4' 30.592 N	100° 51' 57.048 W	
3,101.0	6.77	280.96	3,098.1	66.1	-29.3	521,498.20	1,319,032.47	38° 4' 30.605 N	100° 51' 57.174 W	
3,195.0	8.00	282.63	3,191.3	68.6	-41.2	521,500.68	1,319,020.65	38° 4' 30.627 N	100° 51' 57.322 W	
3,290.0	8.40	287.90	3,285.4	72.1	-54.2	521,504.26	1,319,007.59	38° 4' 30.659 N	100° 51' 57.487 W	
3,383.0	8.40	293.35	3,377.4	76.9	-66.9	521,509.04	1,318,994.89	38° 4' 30.703 N	100° 51' 57.647 W	
3,478.0	9.54	296.25	3,471.2	83.1	-80.3	521,515.27	1,318,981.46	38° 4' 30.761 N	100° 51' 57.817 W	
3,606.0	10.64	290.54	3,597.2	92.0	-100.9	521,524.11	1,318,960.88	38° 4' 30.843 N	100° 51' 58.077 W	
3,697.0	12.44	288.69	3,686.4	98.1	-118.1	521,530.20	1,318,943.73	38° 4' 30.899 N	100° 51' 58.293 W	
3,792.0	13.36	284.03	3,779.0	104.0	-138.4	521,536.14	1,318,923.39	38° 4' 30.953 N	100° 51' 58.550 W	
3,885.0	13.19	284.30	3,869.5	109.2	-159.1	521,541.37	1,318,902.68	38° 4' 30.999 N	100° 51' 58.810 W	
3,978.0	12.79	286.14	3,960.1	114.7	-179.3	521,546.85	1,318,882.51	38° 4' 31.048 N	100° 51' 59.064 W	
4,136.0	13.36	297.57	4,114.1	128.0	-212.3	521,560.16	1,318,849.52	38° 4' 31.171 N	100° 51' 59.481 W	
4,292.0	10.68	305.30	4,266.6	144.7	-240.1	521,576.86	1,318,821.74	38° 4' 31.330 N	100° 51' 59.833 W	
4,385.0	9.85	306.01	4,358.2	154.4	-253.5	521,586.52	1,318,808.27	38° 4' 31.422 N	100° 52' 0.005 W	
4,478.0	8.26	303.28	4,450.0	162.7	-265.6	521,594.86	1,318,796.25	38° 4' 31.501 N	100° 52' 0.158 W	
4,573.0	7.03	310.84	4,544.1	170.3	-275.7	521,602.41	1,318,786.15	38° 4' 31.573 N	100° 52' 0.286 W	
4,667.0	5.80	304.69	4,637.6	176.7	-283.9	521,608.87	1,318,777.89	38° 4' 31.635 N	100° 52' 0.392 W	
4,762.0	4.26	308.12	4,732.2	181.7	-290.6	521,613.78	1,318,771.17	38° 4' 31.682 N	100° 52' 0.477 W	
4,855.0	4.22	308.47	4,824.9	185.9	-296.0	521,618.04	1,318,765.77	38° 4' 31.723 N	100° 52' 0.546 W	
4,912.0	4.04	307.76	4,881.8	188.4	-299.3	521,620.58	1,318,762.54	38° 4' 31.747 N	100° 52' 0.587 W	
5,000.0	4.04	307.76	4,969.6	192.2	-304.2	521,624.38	1,318,757.64	38° 4' 31.783 N	100° 52' 0.650 W	
<b>TD @ 5000.0' MD / 4969.6' TVD</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,731.0	1,729.9	53.1	2.6	Gyro Tie-in @ 1731.0' MD / 1729.9' TVD	
5,000.0	4,969.6	192.2	-304.2	TD @ 5000.0' MD / 4969.6' TVD	



<b>Company:</b>	Merit Energy Company	<b>Local Co-ordinate Reference:</b>	Well Katy Jackson 1-7
<b>Project:</b>	Finney County, Kansas (NAD 27)	<b>TVD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Site:</b>	Sec 7, T23S, R32W, 6th PM	<b>MD Reference:</b>	RKB @ 2869.9usft (Duke #9)
<b>Well:</b>	Katy Jackson 1-7	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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# MBC WELL LOGGING LLC

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

Well Name: KATY JACKSON 1-7 MERIT ENERGY AFE 69780  
 Well Id: API 15-055-22557-01-00  
 Location: FINNEY COUNTY, KANSAS USA  
 License Number: 32446  
 Spud Date: 03-30-22  
 Surface Coordinates: SE/NE/NE/NE SEC 7 T23sR32w, 549'fnl 181'fel  
 Bottom Hole Coordinates: HLS WIRELINE-- KLX MWD -WILLIS TEXAS  
 Ground Elevation (ft): 2858 K.B. Elevation (ft): 2870  
 Logged Interval (ft): 3800 To: 5000 Total Depth (ft): Elog 5000  
 Formation: ST LOUIS, RUN PRODUCTION PIPE  
 Type of Drilling Fluid: MUDCO Tony Mastas CELL (316) 772-6679, CHEMICAL MUD

Region:

Drilling Completed: 04-07-22

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




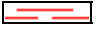
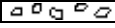










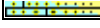



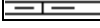



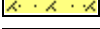




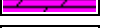



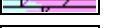



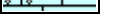


## OPERATOR

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

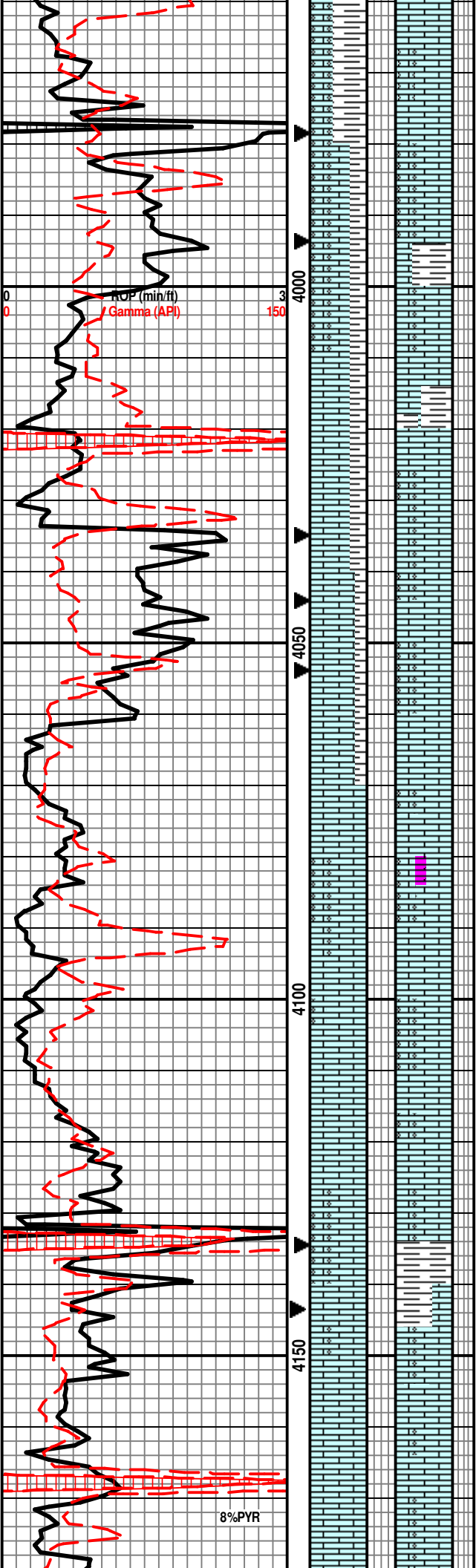
## MUDLOGGER

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		





LS; SLI TN BRTL SME VF SHDW OOL & FOSS, CRM WH CHLK, BRITTLE W/ELL, MFNSOC N/O

SRV MD 3978  
INC 12.79°  
AZM 286.14  
TVD 3960.12

LS; SMETN HD DNS F XLN, FLAKY FRAC, SMELT BRN SPARITIC VF OOL,, VF IMBD QTZ, COMGLD WH CHLK, MUCH CRM/WH CHLK, MFNSOC N/O

TG, C1-C5 100  
REPLACE SAMPLE GATE W/ NEWER MBC GATE TO RAISE LEVEL IN TROUGH. CHECK "STINGER" ON EXTRACTOR ---BIC LIGHTER

SLIDE DRILLING

LS; BUFF TN MOTT WH IP, F XLN. SHDW FOSS, SME VF OOL,--HEAVY COATED, SME CHLK W/F-OOL, MFNSOC N/O

LS; VLT TN CHLKY VF OOL, SMELT GYW/LAM CHLK, TR DOLOMIE, MFNSOC N/O

IOLA 4103-1233

LS; CRM WH, BUFF VF OOL, CHLK MATRIX IP, SME HD DNS SILIC BLKY, TR OFF WH VF OOL SFT TO BRITTLE, CLSTRS, MSNSOC, N/O

LS; VLT BUFF WEATHD APPOR, DULL LUSTRE, CHLKY, SHDW OOL, SILIC REPLCD FOSS INTBD GYBRN SHLY LS W/MICRO OOL, SMSE W/PELL, MFNSOC N/O

PROPANE UNDER INTAKE OF EXTRACTOR

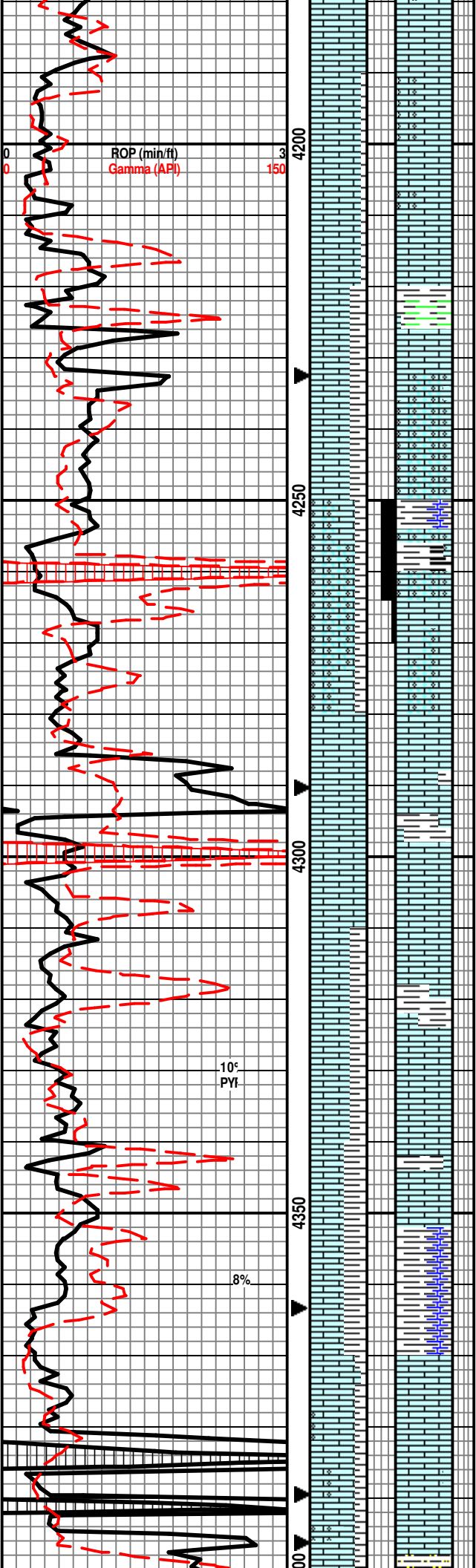
SLIDE DRILLING

DRUM 4142-1272

LS; WH, BUFF WH CHLK, & CHLKY, GRITTY W/OOL, 8% PYR MFNSOC N/O

SRV 4136 MD  
DEV 13.36°  
AZM 297.57  
TVD 4114.05

8%PYR



LS; BUFF LT TN VF OOL, SME FOSS, SME W/ANG  
BRECCA EDGES, CLSTRS, CRM WH CHLKY &  
CHLK, MFNSOIC N/O

LS; LT BUFF VF TN OOL PELL, NO SHOW

TG, C1-C5

100

LS; GY TN HD DNS XLN SHLY,

STARK 4239-

SH; DK GY FLAKEY W/OCC IMBD FOSS, TO DK  
OLIVE GRN W/PYR 5%

SWOPE 4246

LS; V/LT TN BUFF VF OOL, SME SUGARY VF  
OOLCAS, ABDT TN WH CHLK, MED PURPL FLOR  
TR FAINT GOLD TINE NSOC N/O

**STRK 4259-1389**

SRV 4292 MD  
DEV 10.68°  
AZMI 305.30  
TVD 4266.61

**SWOPE4267-1397**

LS; CRM WH V/CHLKY, SNME BONDED ON LT  
GY TN HD DNS XLN, NO SHOW

LS; LT GY TN HD NDS RGH TXT, SHDW FOSS &  
OOL, SILIC FOSS INCLUS, INTBD BLK FLAKEY  
SH, NO SHOW

**HSHP 4297-1427**

**HRTH 4302-1432**

LS; CRM TN CHLKY-XLN, SHDW OOL, IP, TR LT  
BRN FOSS F-XLN, NO SHOW

SH GY DK GY LMY BLKY

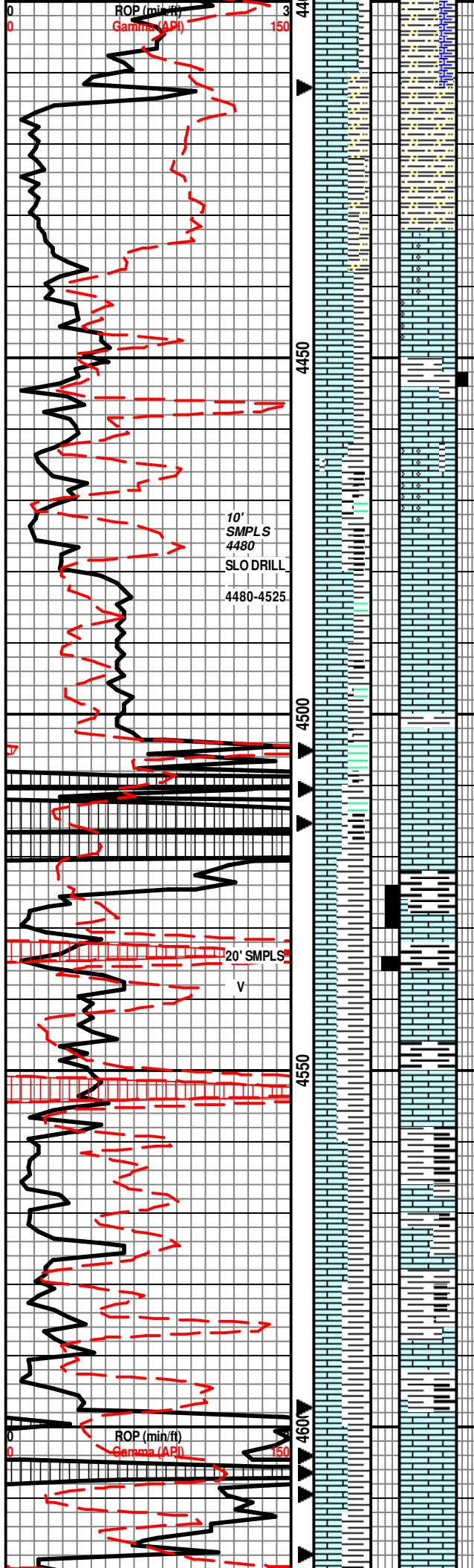
SH; GY DK GY ABDT MICA, SME PYR, 5%, LMY,  
SME DK GRN W/PYR,

LS; DK GY TN HD DNS MED FOSS GRDS TO TN  
LT BUFF CHLKY, NO SHOW

**60cc TEST GAS  
UNDERNEATH  
EXTRACTOR**

LS; LT BUFF WEATYHDAPPR, S-CHLKY, VF F  
SHDW OOL, TRACE FOSS, INCRS GY SHLY BRTL  
GRBNY W/SHDW OOL, NO SHOW

SRV MD 4385  
DEV 9.85°  
AZI 306.01  
TVD 4358.1



SLTST/SS, GY LT GYVF GR, LMY MICA, 5-10% PYR

FREE CRIN, ABDT GY SHLY HD XLN, SME SLTY SNDY SH NO SHOW

LS; CRM TN F XLN, SHDW OOL, VSHLKY PYR REPLCD SPICULES, NO SHOW

**MRMN 4435-1565**

LS; CRM CHLKY W/OOL, COMNGLD W/TN FOSS XLN LS, FREE CRIN, ABDT GY SHLY HD DNS XLN, SME SLTY SNDY SH, NO SHOW

**ALTA 4450-1580**

SH; DULL GY SFT TR MAROON MOTT, ABDT GRN, MICA SCATT PYR, ----1'-2%

LS; TN CVRM VF F OOL, CHLKY MATRIX, SME DK GY CNTR, N/O, DK PURPL SME FAINT GOLD MFNSOC,

SH; DK GY BLKY CALC

LS; TN F XLN FOSS SME OOL, NO SHOW

LS WH GYISH CHLKY, W/F-GY-OOL PELL, TR CHOR, NO SHOW

SH; BLK, PRED VARI GREENS

**DRILL SLIDING**

**PWNE 4513-1643**

LS; LT ND HD DNS SLI FLAKEY, SME PYR TR TN W/PELL, INTBD GY-GRN SH 15% PYR

**SHALE SAMPLE SHOW**

SH BLK PALTY CARBY, MICRO PYR, 10%, SME DK BRN FOSS LS LENS, FEW MICRO GAS BUBBLES, BLK FLOR, INSTANT VERY FAINT MLKY CUT FGAIR RING CUT

LS; LT TN HD DNS FOSS XLN, TR MED TN HD DNS SPAR CMTERD P/SRTD VF F OOL, HEAVY RIM COAT, N/O DK PURPL FLOR NSOC

TR BLK PYRITIC COALY SH

**CHEROKEE 4555-1685**

SH; LT GY FISS SFT TO BRTL GRITTY LMY TO BLK LMY CARBY 15% PYRIN BLK

LS; DK GY MOTT TN, TO OFF GYWH XLN, NO SHOW

SH; DULL BLK PLATY TO BLKY, LMY TR PALE VIOLET SFT, 10-15% PYR

**DRILL WHILE SLIDING**

LS; PALE GY WH DULL FOSS HASH, XLN, SME BONDED CHLKY, INCRS DULL DK GY SHLY NO SHOW

LS; DIRTY GY GRNY V/SHLY, FOSS DEBRS, MICRO OOL, TR CLK FILL FRAC, N/O NO SHOW

**NOTE MIXING CEDAR FIBER FOR- W/LCM, NORMALLY CAUSES LOW GAS READINGS-**

SRV MD 4478  
DEV 8.26° AZM  
-303.28 TVD 4450

**NOTE C2//C1 CROSS OVER**

SRV MD 4573  
DEV 7.03 AZI 310.84  
TVD 4544

TG, C1-C5

C1/C2 CROSSOVER

100

100

CHRKL MCP\_HUG 4623-1753

SH; BLK FISS BRTL CARBY

LS; LT TN/WH HD DNS XLN FOSS, IP, CRM WH CHLKK, W/FOSSS, MINTBD BLK BRN MICRO FOSS HAH SH NO SHOW

SRV MD 4667  
DEV 5.80° AZI 304.69  
TVD 4725'

ATOKA 4666-1796

LS; GYISH WH DULL HD SHDW VF OOL, IP, SME GYISH HD XLN W/ CHOR REPLCD SPICULES, TR GLAU, NO SHOW

4693 START SLIDE DRILL

LS; MOT BLK & WH, SPKLED IP, SHL HD DNS RGH TXT, SME FOSS DSEBRs, TR BLK SH LENS,

SH; GY, SLI BRN, MICRO BLK FOSS PRINTS, PLATY TO BLKY TR SPLNTY

(4) PCES FROM RE-RUN DRY SAMPLES

MRRW 4725-1855

SS; CLR S-ANG-S-RD VERY VF QTZ, HD TO MED TT, 10% VF BLK PELL, SCATT MICRO PYR 1-2%, SME VF CARB MATL, DK BRN OVERALL STNG, BLK FLOR, N/O, FLASH SLO BLU-WH, MILKY STRMG CUT, BIRITE YELBLU GRN RING CUT

SLTST; BLK DK GY VF GR, HD TT 5% PYR, ABDST BLK SH

SRV 4762  
DEV 4.26° AZI 308.12  
TVD 4732.18

SS STRINGER, LT GRN OVER ALL, CLR VF TO ALMOST SLTST HD TT CLSTRS, MICRO GLAU, NFSOC N/O NO CUT

SH; BLK BLKY

SS; TR OFF WH SLI GRN HD TT VF GR GL; AU NO SHOW CPOMGLD BLK SH, 5% PYR

BLK SH 20% FREE PYR

4780  
MUD CHECK  
WT 9.4  
VIS 48  
PV 18  
YP 16  
GEL 13/38  
PH 11  
FIL 5.2  
ALK FIL .59/1.27  
CHL 2,900  
CAL 4  
SOL 7.7  
LCM 4

MRRW LIME 4803-1933

LS; CRM WH CHLKY, VF OOL HEAVY RIM COAT, TR PYR, (PURPL FLOR NSOC

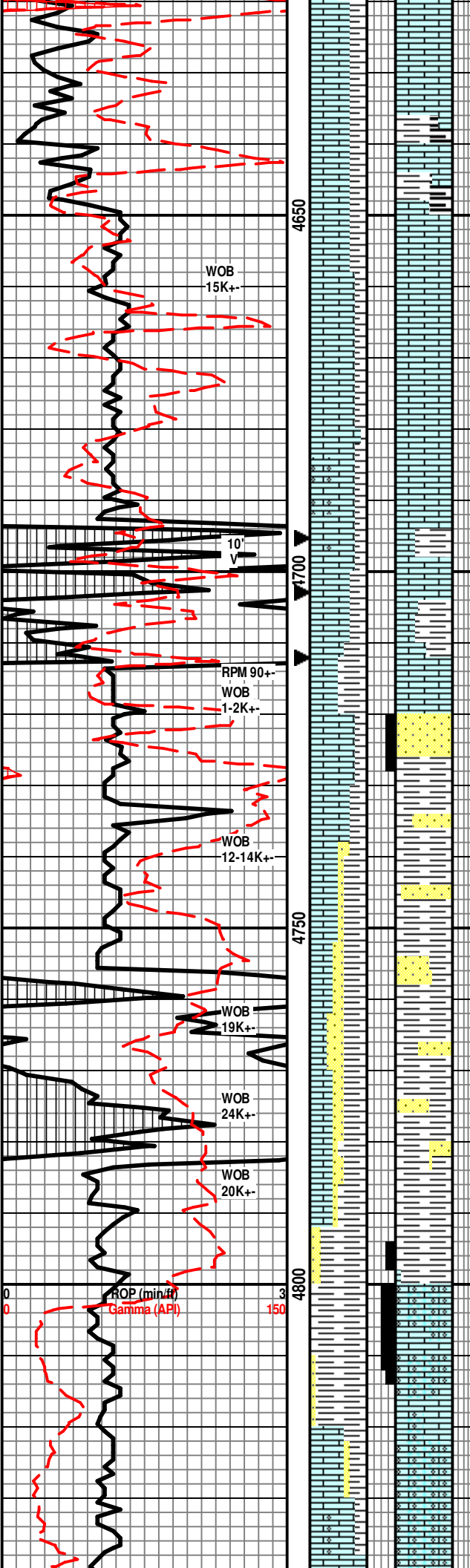
NOTE HEAVIES

STGN 4819-1949

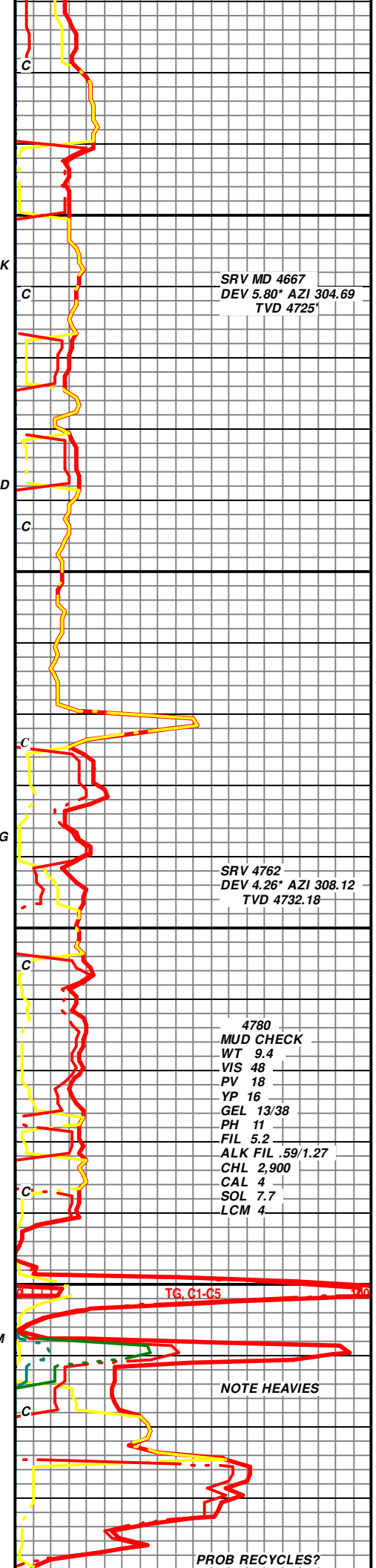
ST LOUIS 4830-1960

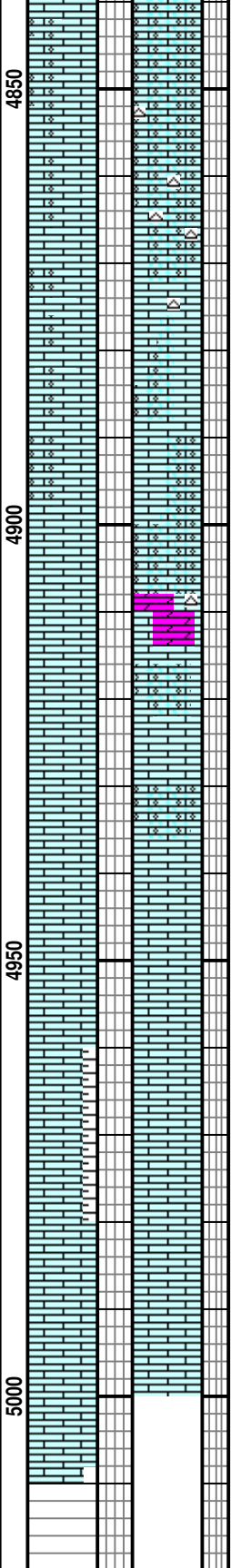
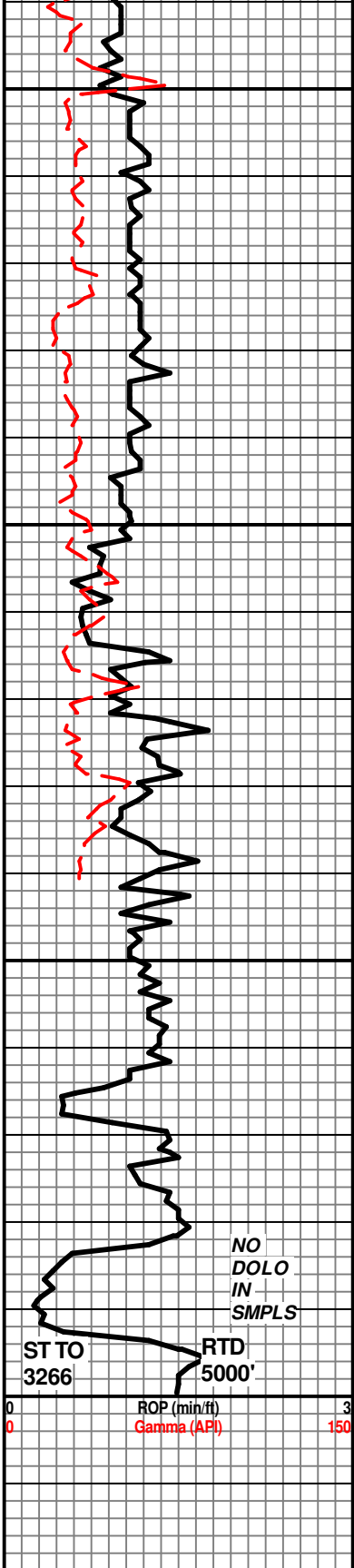
LS; CRM WH CHLKY OOL, TO LT BRN CRM VF OOL, SME HD DNS XLN, PURPL FLOR, N/O NSOC

PROB RECYCLES?



Well log text descriptions for various intervals including CHRKL MCP\_HUG, ATOKA, MRRW, and ST LOUIS.





LS; CRM WH CHLKY TO DNS XLN, VF OOL, TRACE FOSS, SME TRANSLUS SEMI VIT CHT, PURPL FLOR NWSOC N/O

LS; WH CRM CHLKY OOL, SME WH W/SHDW VF OOL XLN, PURPL FLOR NSOC

LS; MOTT TN GY HD DNS XLN, K TR VF BRN DOLO, N/O PURPL FLOR NSOC

SLI TN GY VF OOL, CHLKY IP, TR WH VIT CHT, PURPL FLOR NSOC N/O

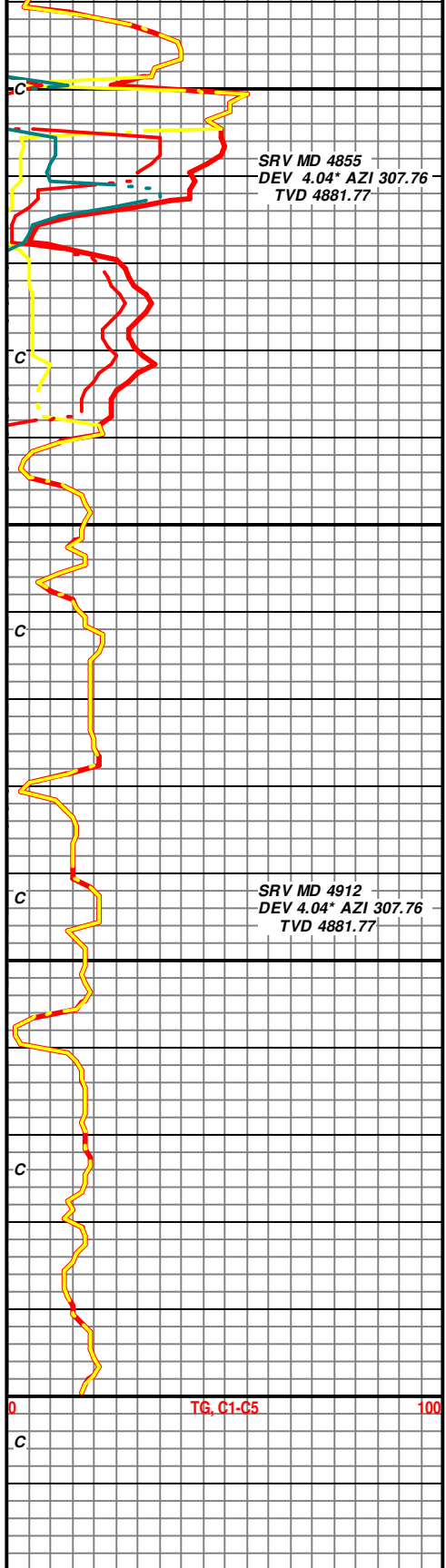
BRN HD DNS XLN, SHLY

LS; TN, BUFF WH VF OOL, SME VF SNDY, INCRS WH MOTT VIT ANG CHT, N/O. PUARPL FLOR NSOC

LS; GYISH WH TO TN HD DNS VF F XLN, SLI SHLY, F OOL I.P. ABDT "LEAPORD" VIT CONCORD FRAC ANG VIT CHT, 2% PYR, N/O O, DK PURPL SME V/FAINT GOLD MFNSOC

LS; BRN TN DK GY HD XLN, SME MOT6T CRM-DK BRN BRTL W/P--SORTD DK GY F TO VF PELL, N/O V/FAONT GOLD FLOR 25%, SME SCATT WEAK DULL YEL, PRED DK PURPL NSOC

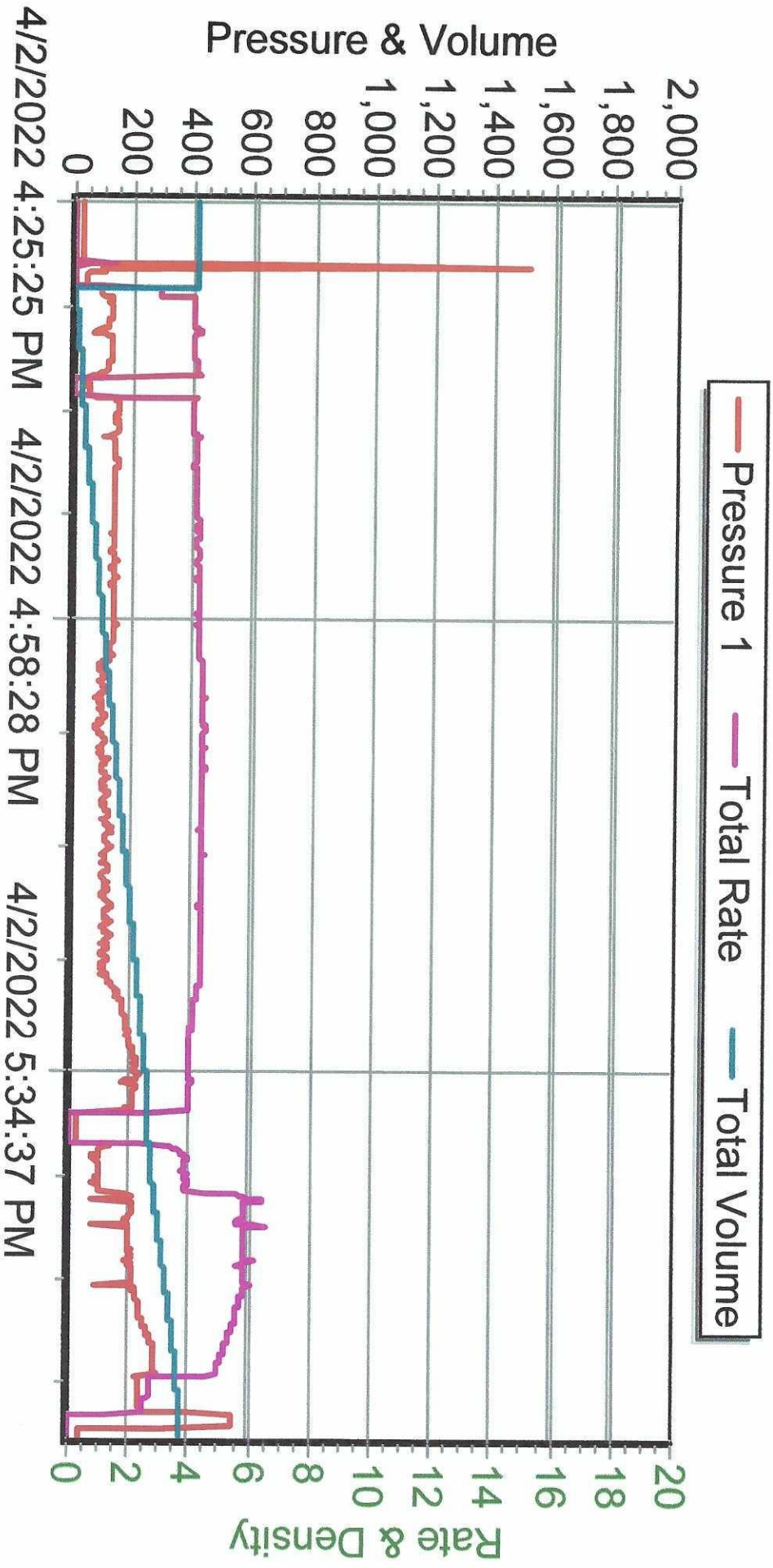
THANKS FOR USING  
MBC WELL LOGGING  
AUSTIN & MARLA GARNER





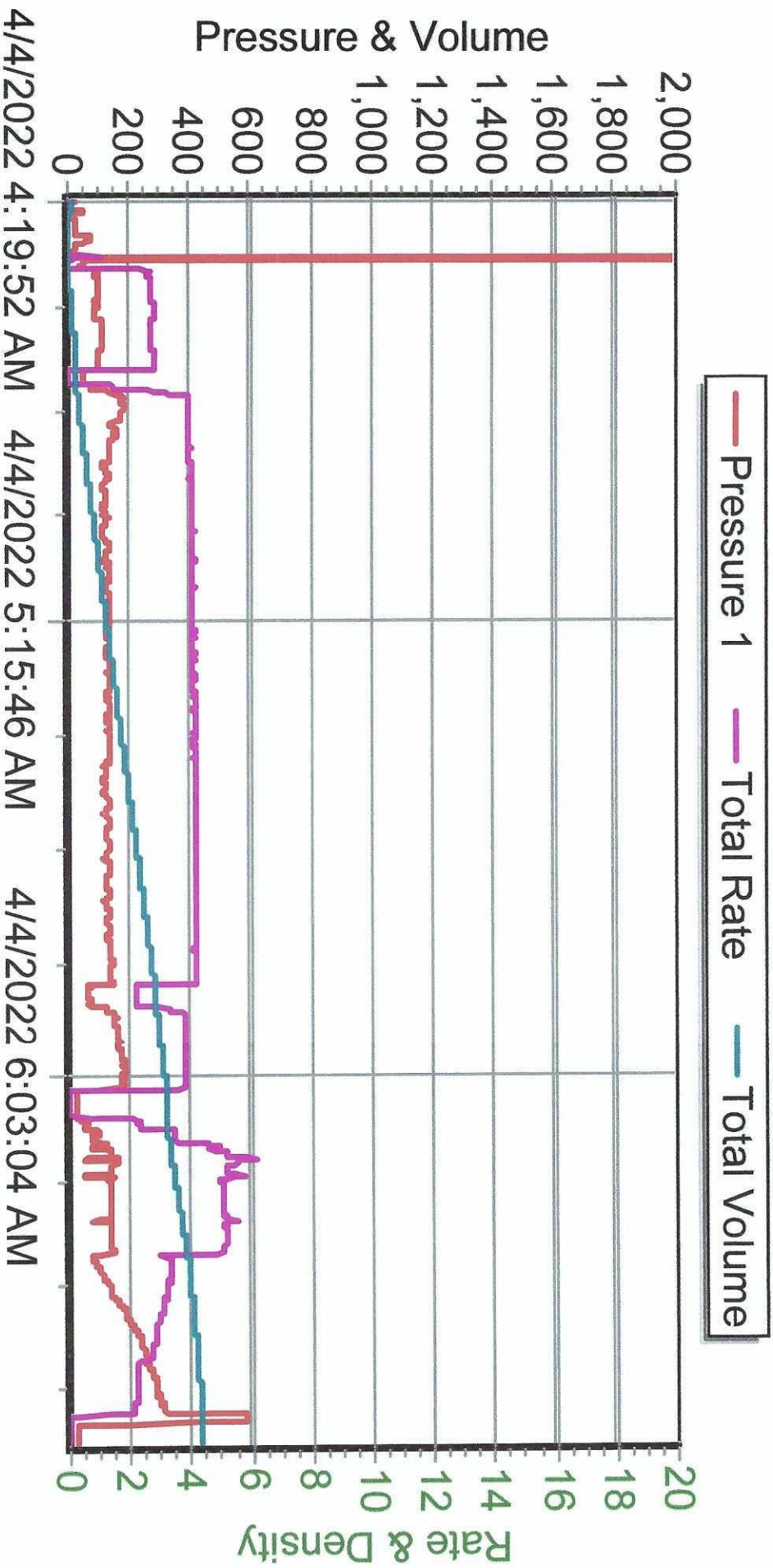


MERIT ENERGY COMPANY  
KATY JACKSON #1-7  
13.375" CONDUCTOR  
04/02/2022





MERIT ENERGY COMPANY  
KATY JACKSON #1-7  
8.625" SURFACE  
04/04/2022



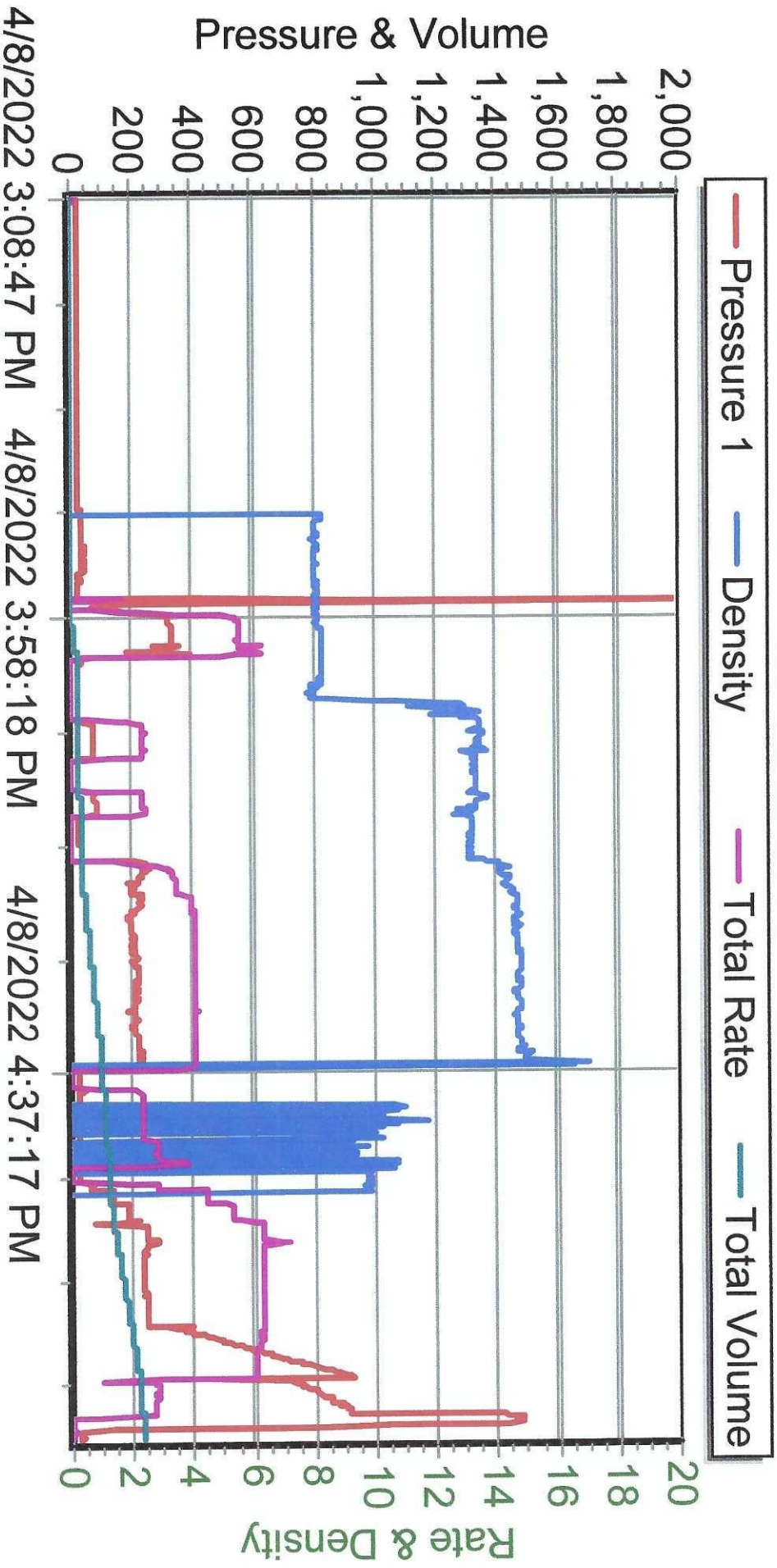


# MERIT ENERGY COMPANY

## KATY JACKSON 1-7

### 5.5" PRODUCTION

#### 04/08/2022





Quasar Energy Services, Inc.  
 3288 FM 51  
 Gainesville, TX 76240

# Invoice

Date	Invoice #
4/27/2022	145764

Bill To
Merit Energy 3670 W. Jones Ave Garden City, KS 67842

As of 09/22/2015 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 the full price.

			Well
			Katy Jackson 1-7
Description	Quantity	Rate	Amount
Pickup Mileage	70	5.31	371.70
Equipment Mileage	140	8.30	1,162.00
Pump Charge	1	3,307.50	3,307.50
Class A Cement	50	16.54	827.00
<b>Total</b>			\$5,668.20
<b>Payments/Credits</b>			\$0.00
<b>Balance Due</b>			\$5,668.20

All accounts are past due net 30 days following the date of invoice. A finance charge of 1.5% per month or 18% annual percentage rate will be charged on all past due accounts.







**QUASAR ENERGY SERVICES, INC.**

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

Form 185-2J

4/22/22

CEMENTING JOB LOG

**CEMENTING JOB LOG**

**Company:** MERIT ENERGY COMPANY **Well Name:** KATY JACKSON #1-7

**Type Job:** SQUEEZE **AFE #:** 0

**CASING DATA**

Size:	5 1/2	Grade:	J55	Weight:	17
<b>Casing Depths</b>	Top: 0	Bottom:	4983		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 2 7/8	Weight:	0	Grade: 0	TD (ft): 0
Open Hole:	Size: 0	T.D. (ft):	0		
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>	CLASS A -- 2% CC ON THE SIDE				Excess	
Amt.	150	Sks Yield	1.19	ft <sup>3</sup> /sk	Density (PPG)	15.6
<b>TAIL:</b>					Excess	
Amt.	Sks Yield		ft <sup>3</sup> /sk		Density (PPG)	
<b>WATER:</b>						
Lead:		gals/sk:	5.2	Tail:		Total (bbls):
Pump Trucks Used:	110 - DP07					
Bulk Equipment:	230 -- 660-24					
Disp. Fluid Type:	FRESH WATER	Amt. (Bbls.)		Weight (PPG):		8.33
Mud Type:				Weight (PPG):		

**COMPANY REPRESENTATIVE:** \_\_\_\_\_ **CEMENTER:** KIRBY HARPER

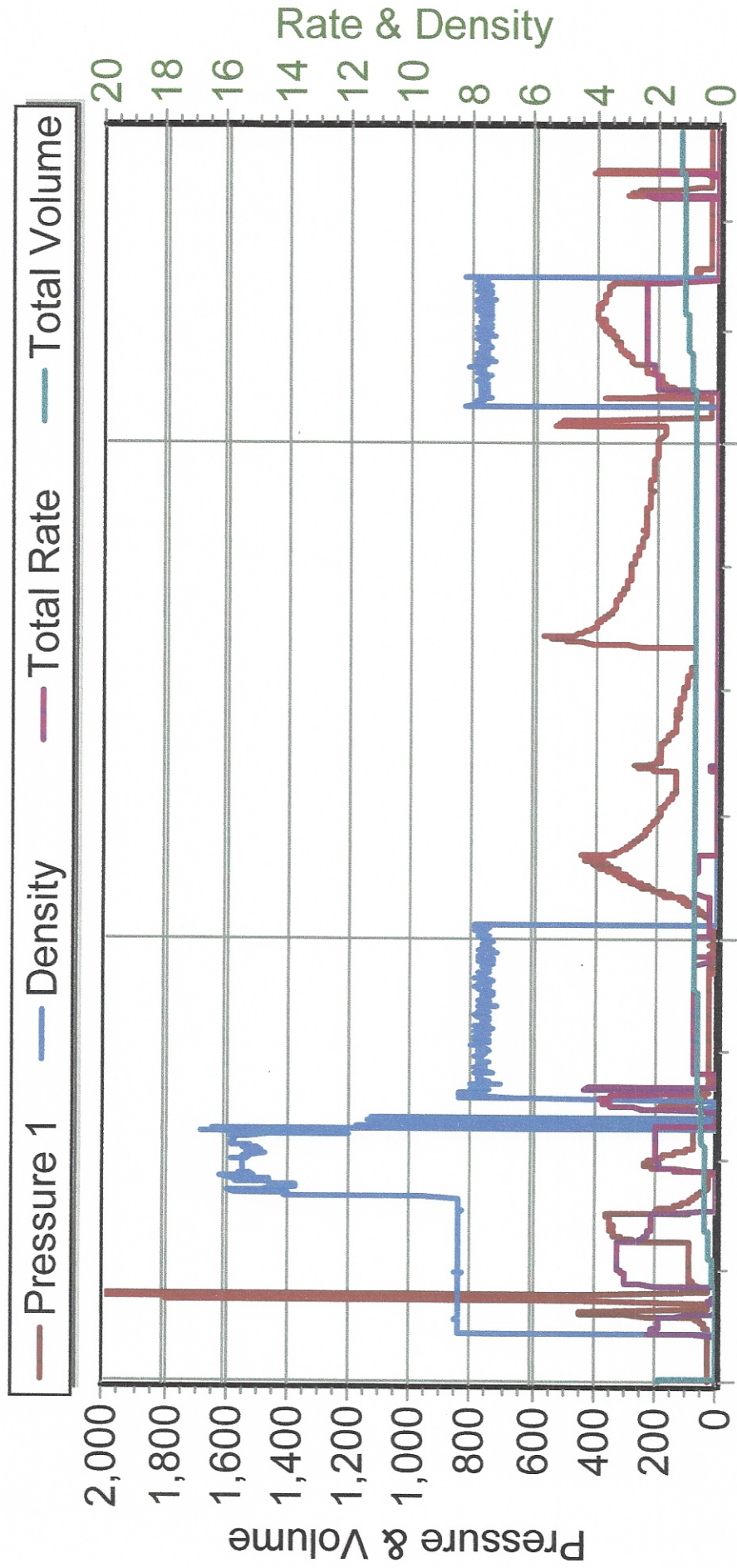
TIME AM/PM	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
0700						ON LOCATION -- SPOT AND RIG UP
0805			500	3.5	2	LOAD ANNULUS
0812		350		20/30	2	ESTABLISH RATE
0829		300		10	2	START MIXING 50 SK LEAD @ 15.6 PPG
0834						SHUT DOWN -- CLEAN LINES
0841		0		0	.7	START DISPLACING WITH FRESH WATER
0915		350		27	.6	START STAGING
1018						WELL PRESSURED UP -- HELD PRESSURE
1019						RELEASE PRESSURE -- NO FLOW BACK
1023			200	0	2	REVERSE OUT
1042				37		SHUT DOWN -- PULL 10 JTS
1056		400		2		PRESSURE UP TUBING
1056		400				SHUT IN WELL

# MERIT ENERGY COMPANY

## KATY JACKSON #1-7

### SQUEEZE

### 04/22/2022



4/22/2022 7:29:18 AM    4/22/2022 9:02:11 AM    4/22/2022 10:15:12 AM