



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Murfin Drilling Company, Inc.
Well Jean A #2-7
Field Wildcat
County Cheyenne
State Kansas

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Field Wildcat
County Cheyenne State Kansas

Location: API #: 15-023-21563-00-00
600 FSL & 2100 FEL
SEC 7 TWP 1S RGE 37W
Permanent Datum Ground Level Elevation 3101
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
CNL/CDL
DIL/BHCS
Elevation
K.B. 3106
D.F.
G.L. 3101

Date	1/9/2022		
Run Number	One		
Depth Driller	4635		
Depth Logger	4629		
Bottom Logged Interval	4628		
Top Log Interval	3500		
Casing Driller	8.625 @ 324		
Casing Logger	324		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1200		
Density / Viscosity	8.6 56		
pH / Fluid Loss	12.0 6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.95 @ 62		
Rmt @ Meas. Temp	0.71 @ 62		
Rmc @ Meas. Temp	1.28 @ 62		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.48 @ 122		
Operating Rig Time	6 Hours		
Max Rec. Temp. F	122		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Wes Hansen		

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Bird City, N to DD Rd, 2 E to T,
1 S, W into after TB

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Wes Hansen
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_jean a #2-7.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	122	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	500	50	Off	4629

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth



MIDWEST WIRELINE

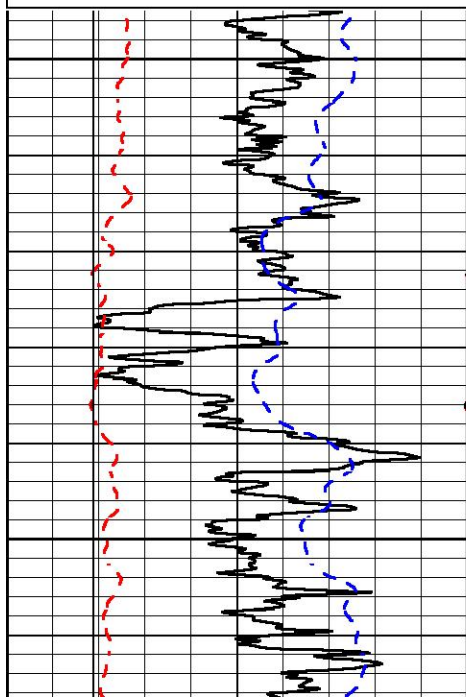
DETAIL SECTION

MAIN PASS

Database File murfin_jean a #2-7.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Sun Jan 09 09:44:02 2022
Charted by Depth in Feet scaled 1:240

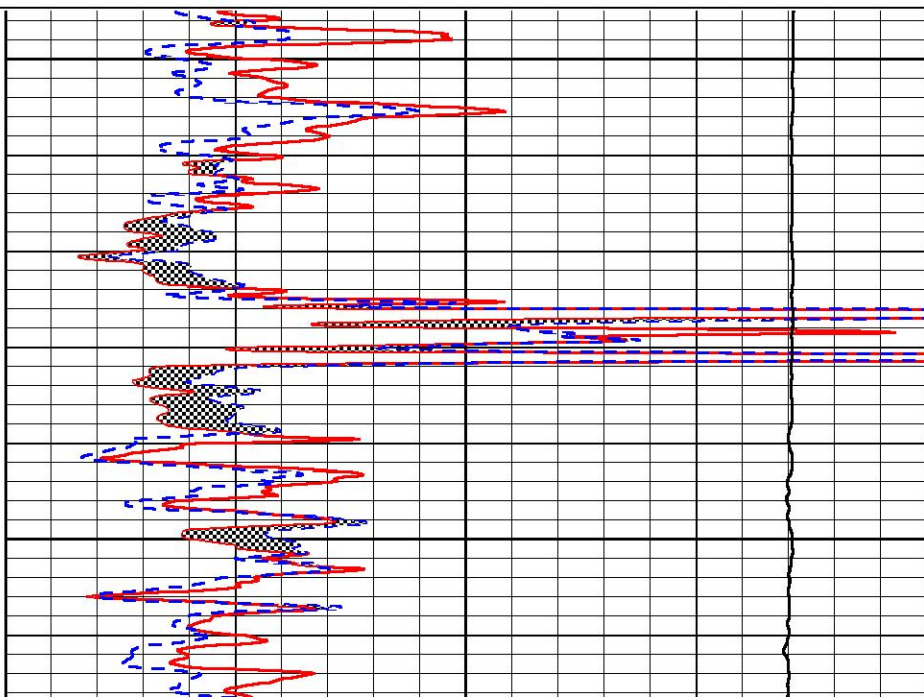
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

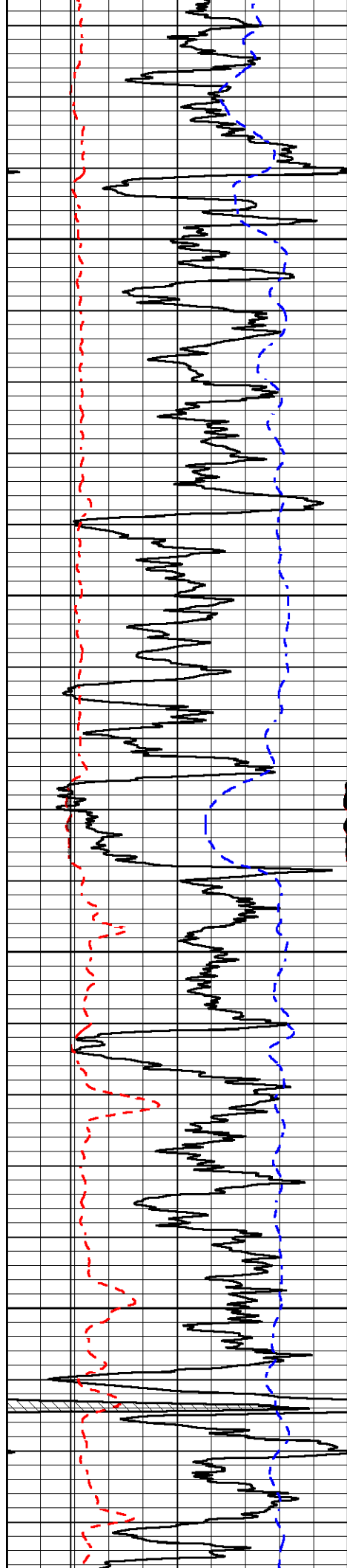
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3500

3550



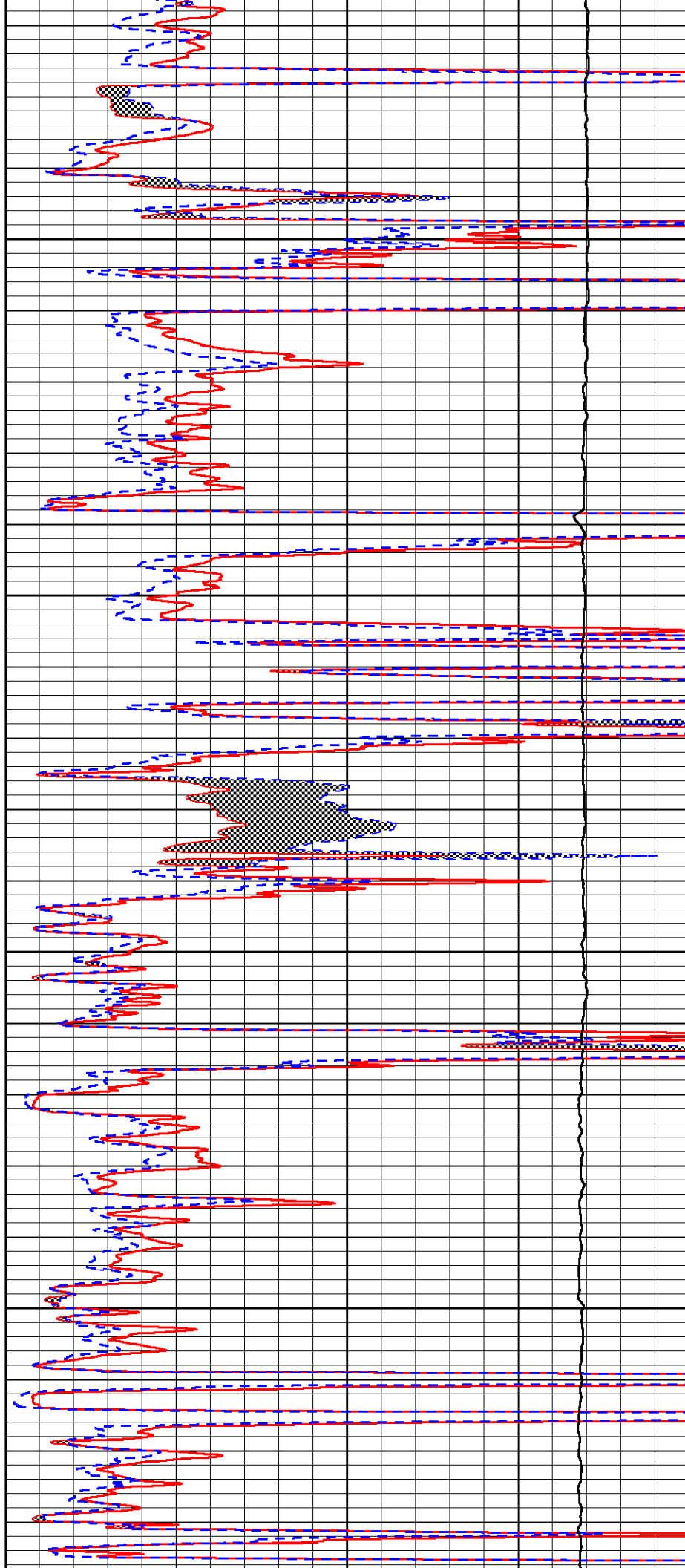


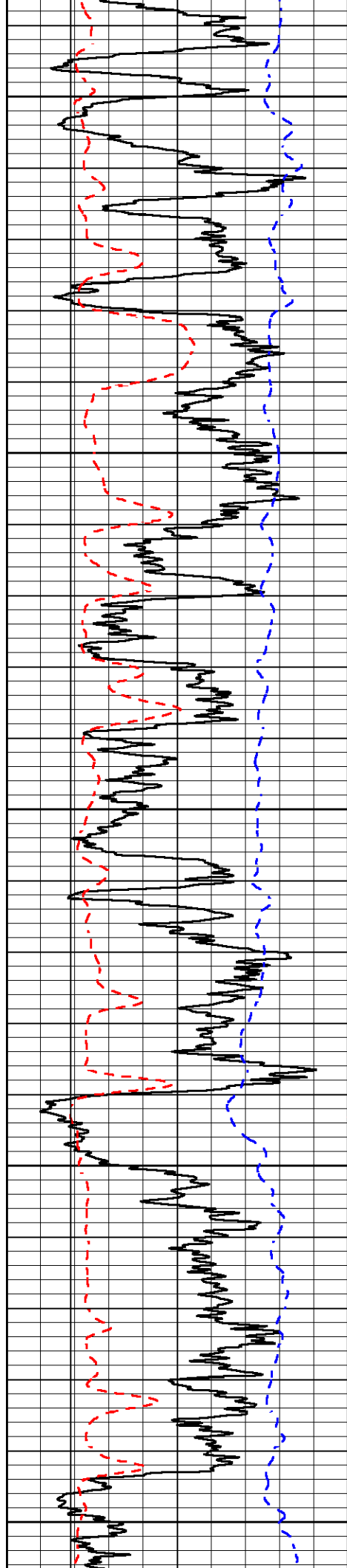
3600

3650

3700

3750





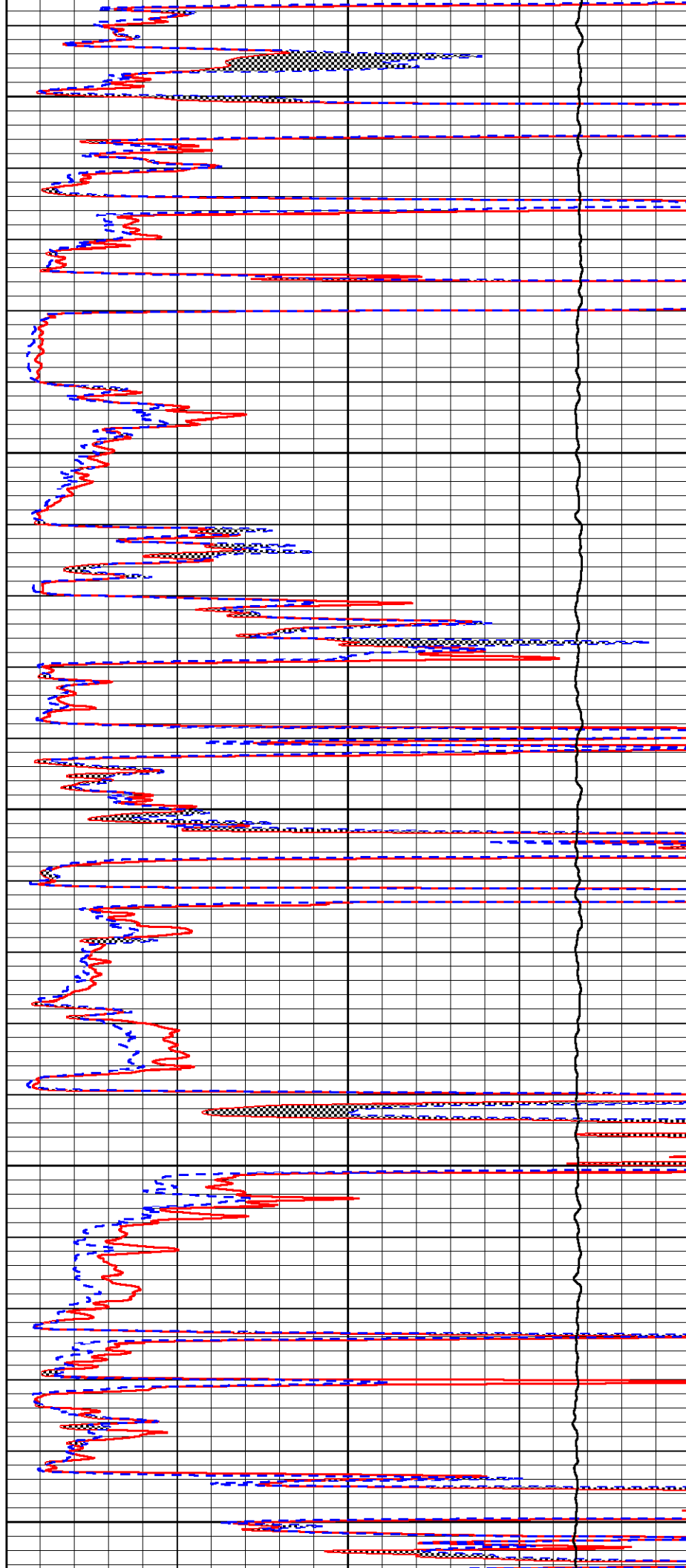
3800

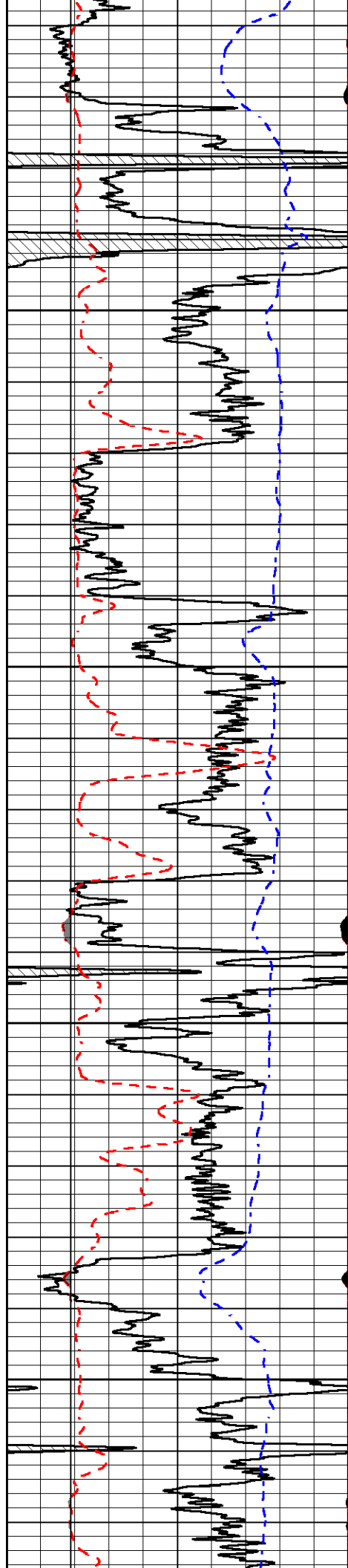
3850

3900

3950

4000



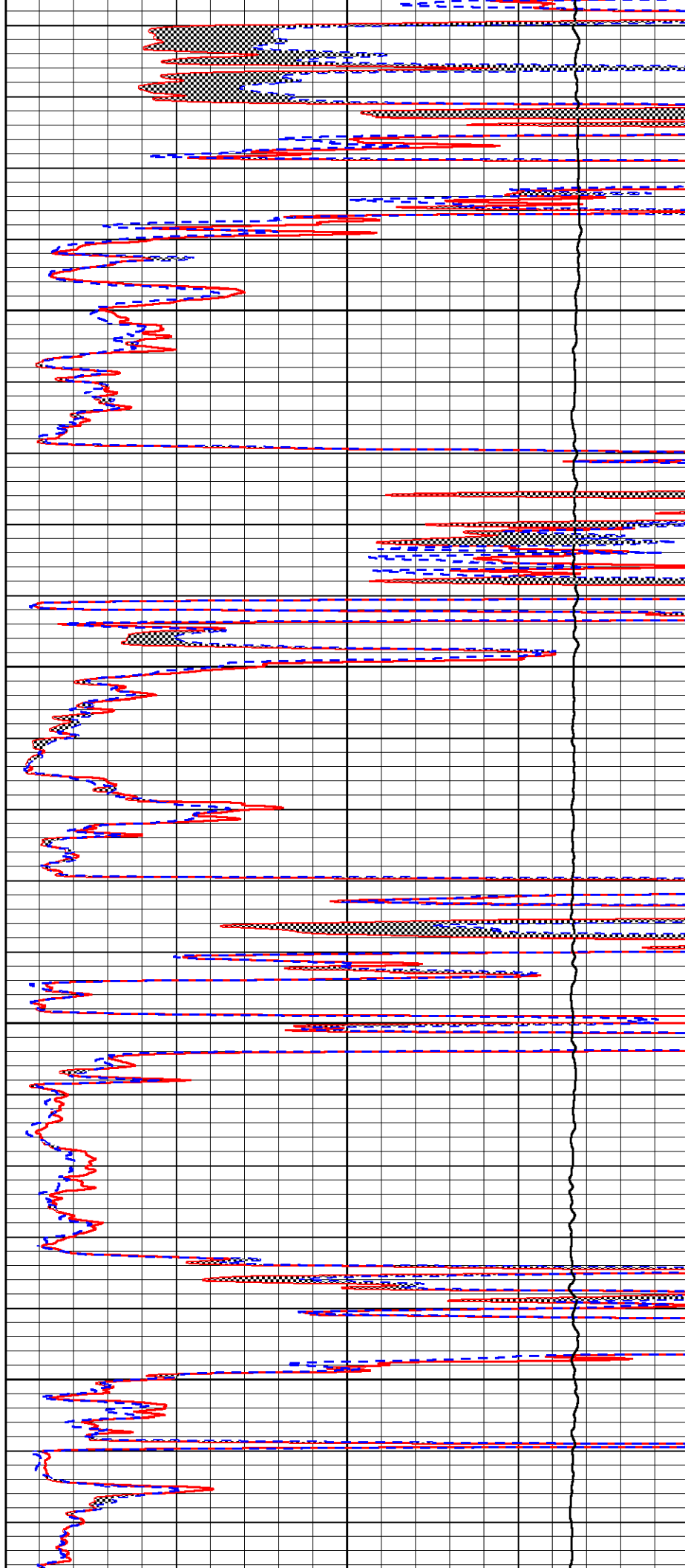


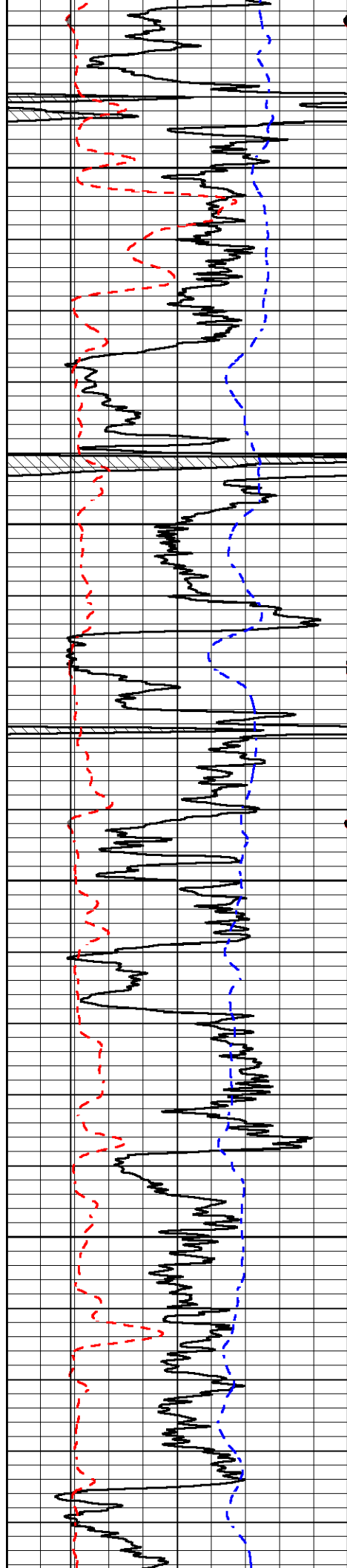
4050

4100

4150

4200



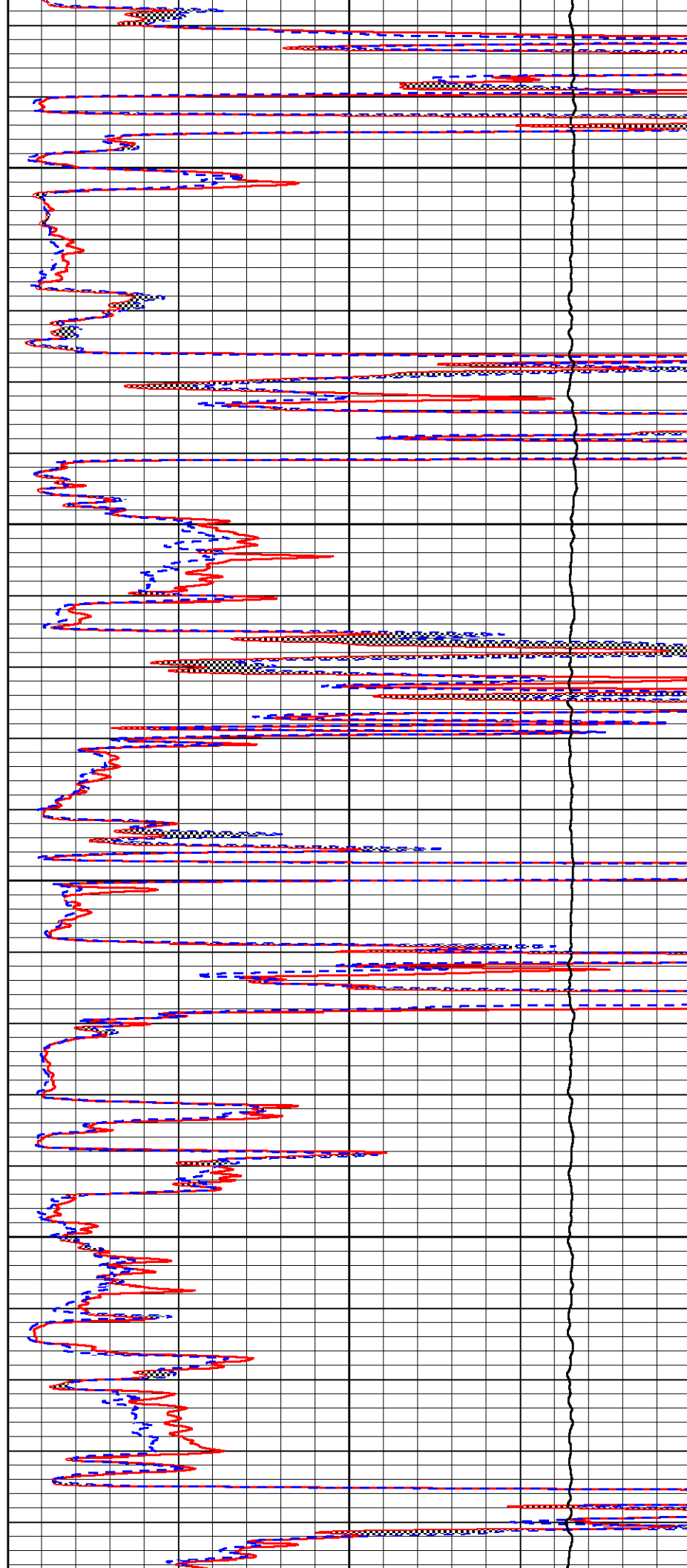


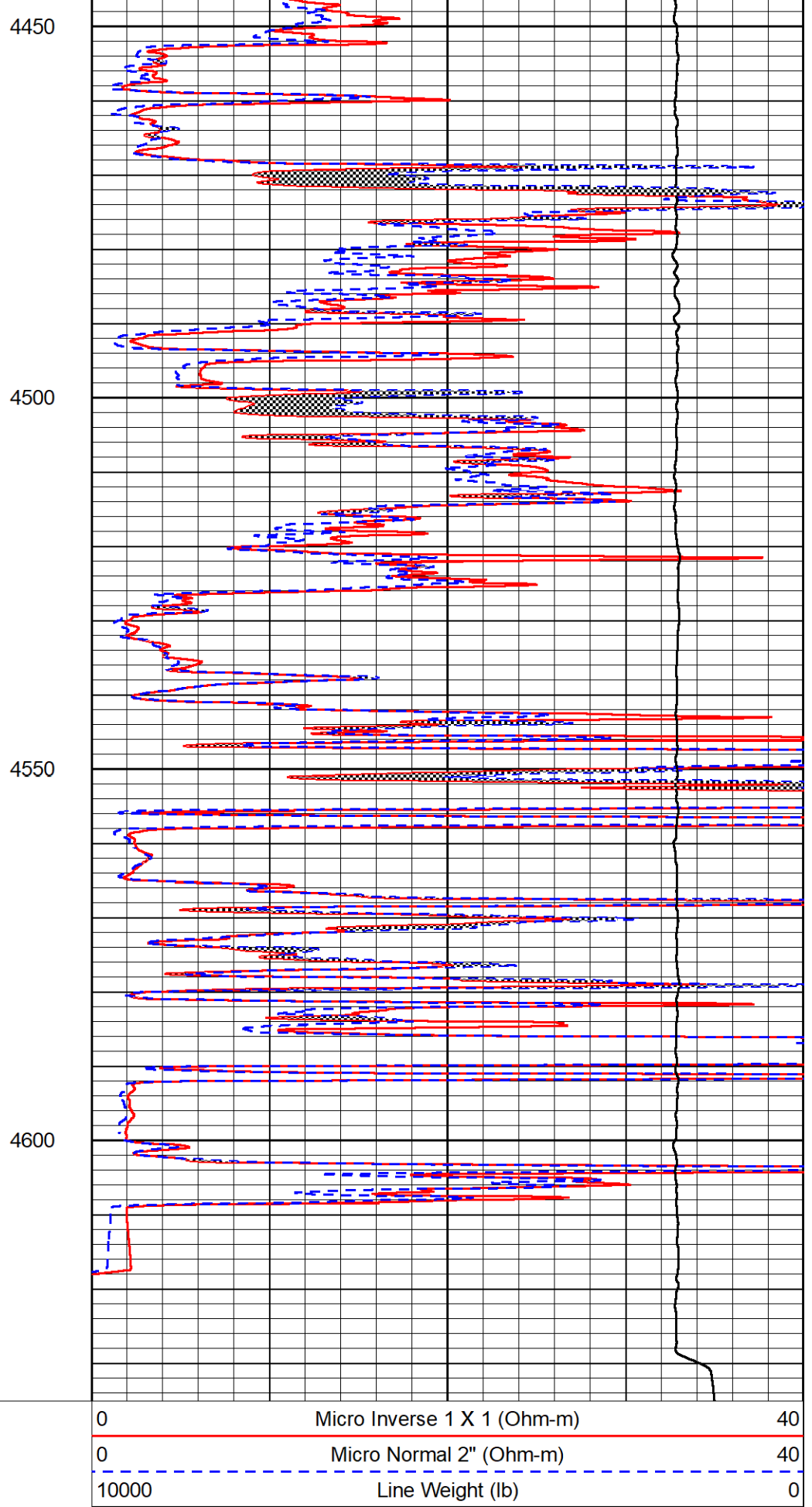
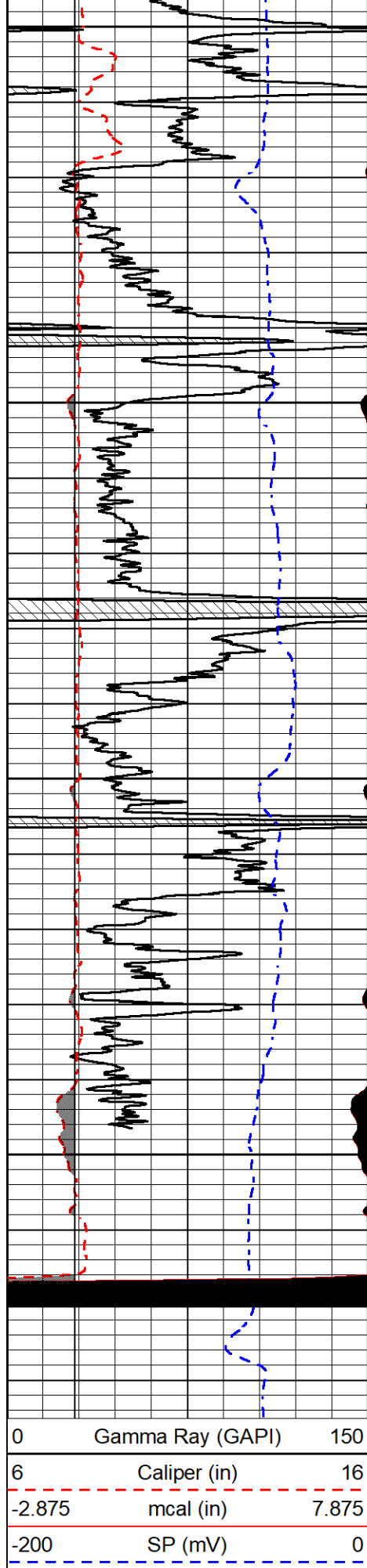
4250

4300

4350

4400





REPEAT SECTION



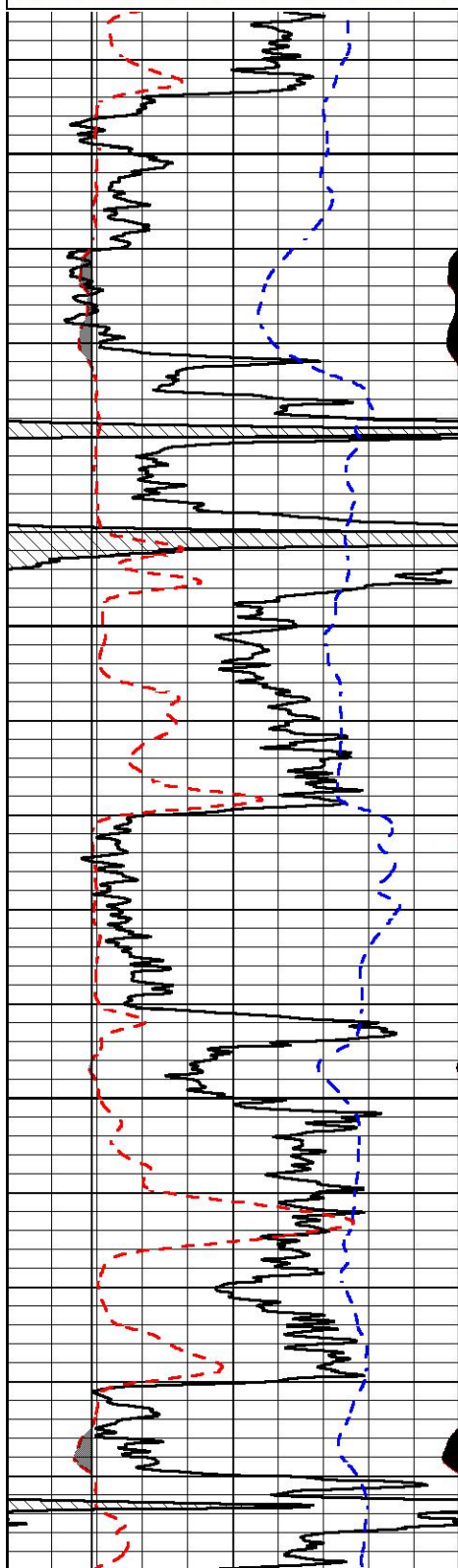
MIDWEST WIRELINE

REPEAT PASS

Database File murfin_jean a #2-7.db
Dataset Pathname StkMI/pass2.1
Presentation Format _micro
Dataset Creation Sun Jan 09 08:55:57 2022
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

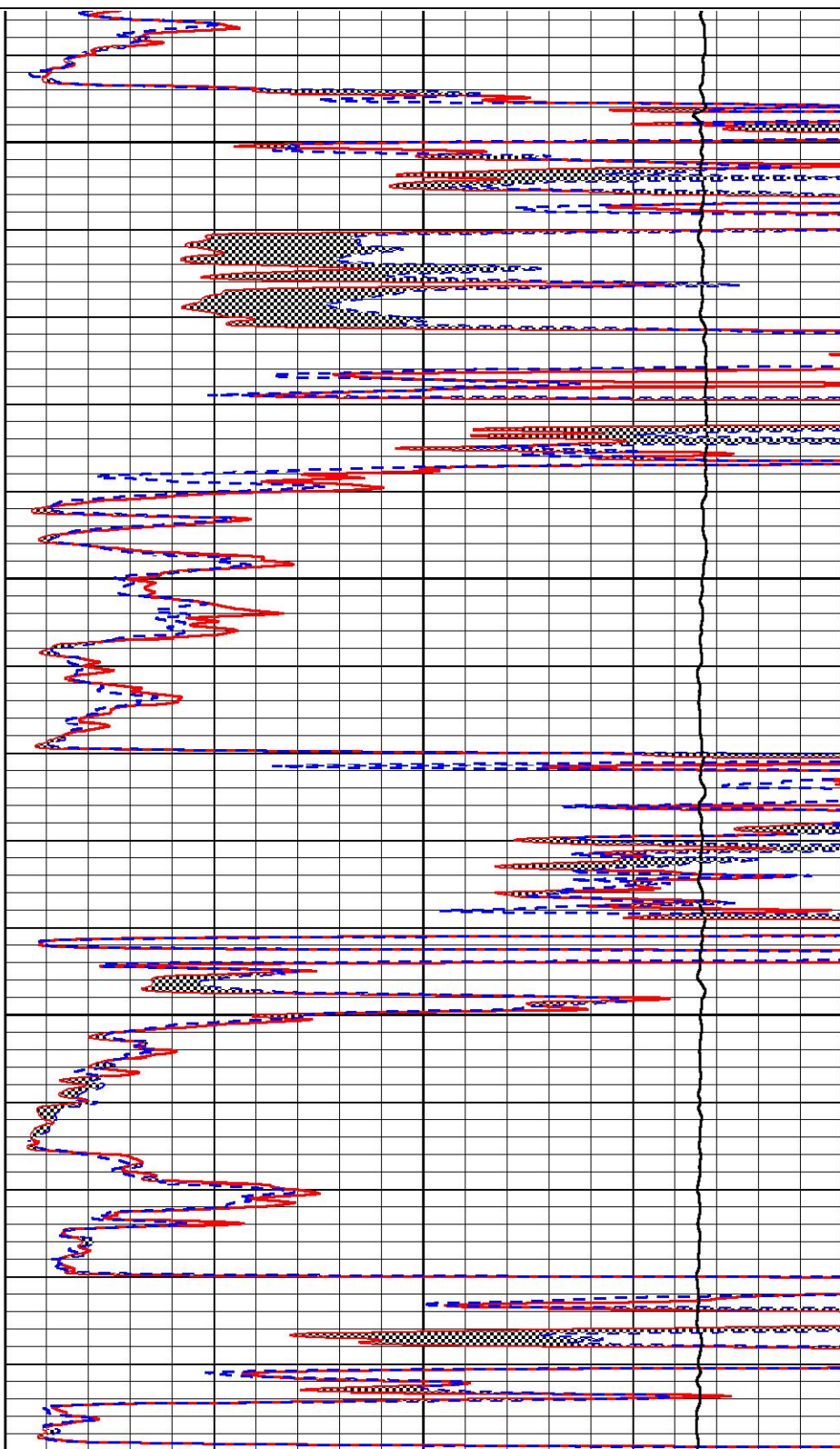


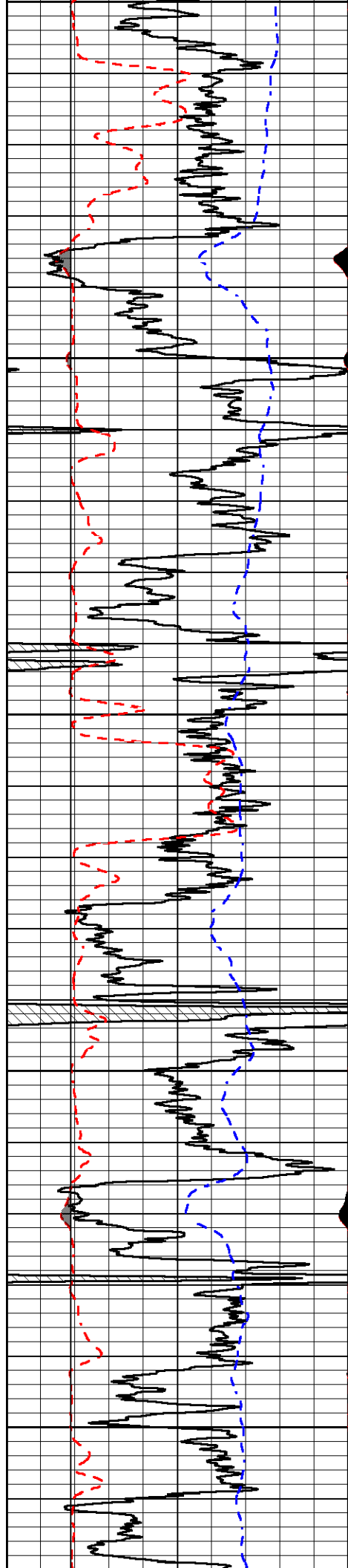
4000

4050

4100

4150





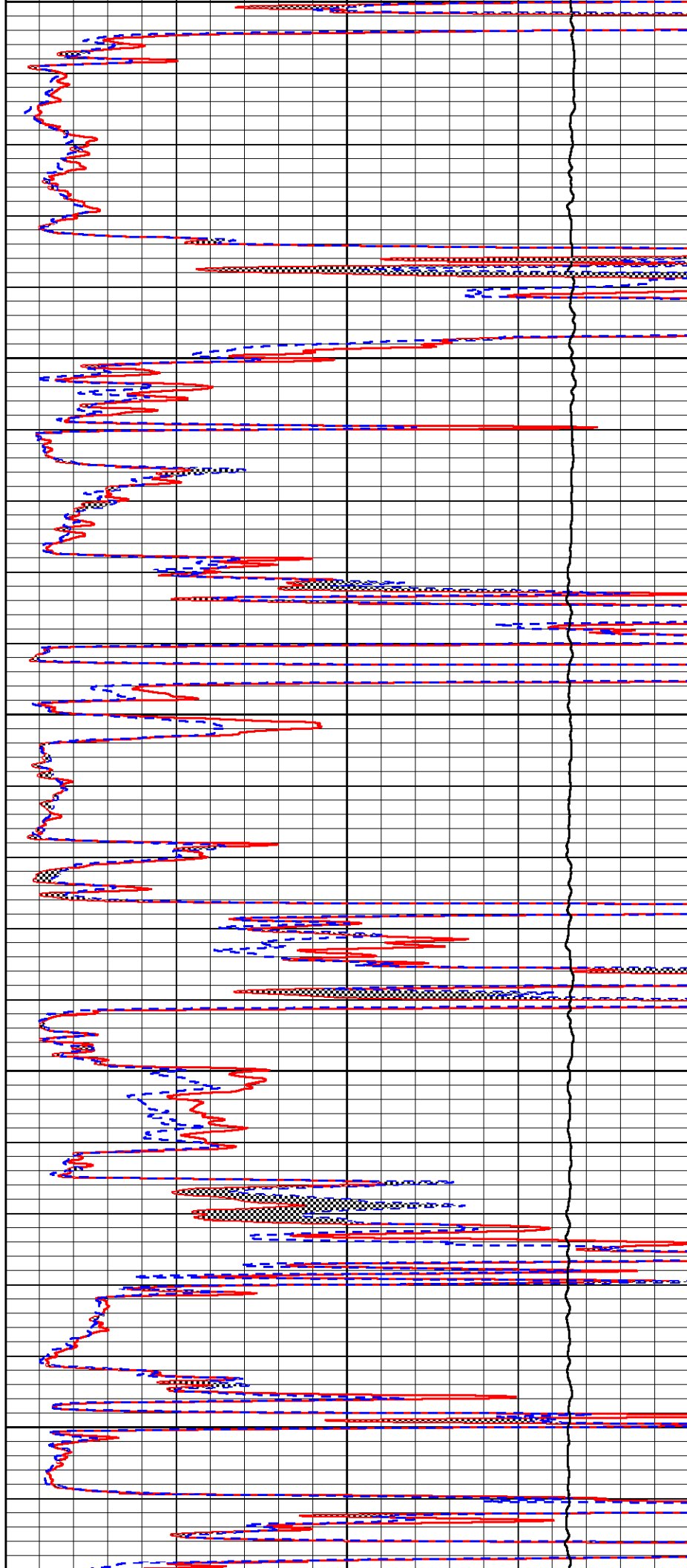
4150

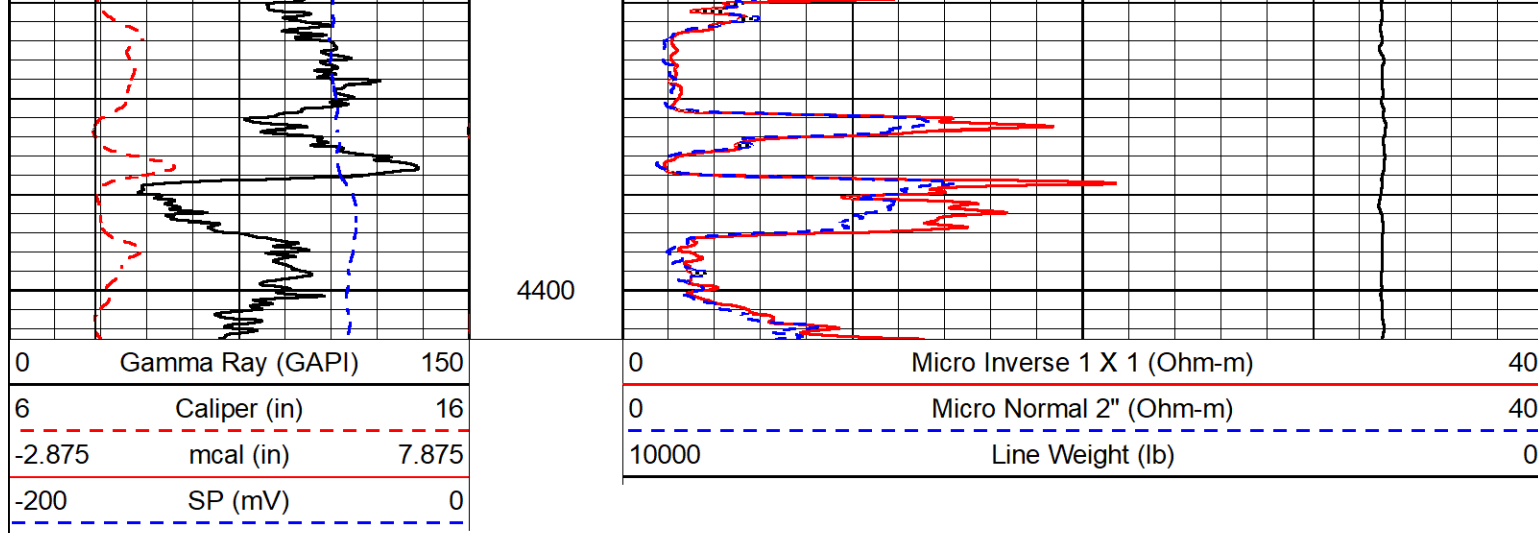
4200

4250

4300

4350





Calibration Report		
Database File	murfin_jean a #2-7.db	
Dataset Pathname	StkMI/pass3.1	
Dataset Creation	Sun Jan 09 09:44:02 2022	

Dual Induction Calibration Report							
Serial-Model:				501 HT-M&W			
Surface Cal Performed:				Mon Dec 20 13:26:03 2021			
		Readings		References		Results	
Loop:		Air	Loop	Air	Loop	m	b
Deep		83.639	487.104	0.000	183.000 mmho/m	0.420	-33.500
Medium		113.335	1585.690	0.000	442.000 mmho/m	0.300	-31.500

Microlog Calibration Report							
Serial-Model:				402-PSIML			
Performed:				Wed Jan 5 07:26:27 2022			
		Readings		References		Results	
		Zero	Cal	Zero	Cal	m	b
Normal		0.0000	1.0000	0.0000	1.0000 Ohm-m	27000.0000	-1.0000
Inverse		0.0000	1.0000	0.0000	1.0000 Ohm-m	23000.0000	0.0000
Caliper		1.0052	1.0858	5.0000	16.5000 in	142.7190	-142.5500

Compensated Density Calibration Report			
Serial-Model:		305-05-M&W	
Source #:		20762B	
Master Calibration Performed:		Mon Dec 13 15:18:29 2021	

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8758.11	9709.36	cps
Aluminum	2.630	g/cc	1513.14	5652.54	cps
Spine Angle = 72.88			Density/Spine Ratio = 0.476		

	Size		Reading
Small Ring	4.00	in	1.75
Large Ring	14.00	in	1.38

Compensated Neutron Calibration Report
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Serial-Model:	207-MW-M&W
Source #:	100046B
Master Calibration Performed:	Mon Nov 29 15:06:24 2021

Master Calibration					
Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	101	
Tool Model:	M&W	
Performed:	Fri Dec 3 15:10:46 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps

	Company	Murfin Drilling Company, Inc.
	Well	Jean A #2-7
	Field	Wildcat
	County	Cheyenne
	State	Kansas