



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Murfin Drilling Company, Inc.
Well Frisbie B #2-15
Field
County Rawlins
State Kansas

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Well Frisbie B #2-15

Field

County Rawlins

State Kansas

Location: API #: 15-153-21278-00-00

1250 FSL & 2640 FWL

CNL/CDL
DIL/BHCS

SEC 15 TWP 2S RGE 35W

Permanent Datum Ground Level Elevation 3190
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 3195
D.F.
G.L. 3190

Date 1/5/2022

Run Number One

Depth Driller 4800

Depth Logger 4801

Bottom Logged Interval 4800

Top Log Interval 3550

Casing Driller 8.625 @ 330

Casing Logger 324

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1600

Density / Viscosity 9.1 65

pH / Fluid Loss 11.5 6.0

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.95 @ 50

Rmt @ Meas. Temp 0.71 @ 50

Rmc @ Meas. Temp 1.28 @ 50

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.38 @ 124

Operating Rig Time 6 Hours

Max Rec. Temp. F 124

Equipment Number P-24

Location Hays

Recorded By D. Schmidt

Witnessed By Clayton Erickson

<<< Fold Here >>>

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.

Beardsley,
5 North, East into

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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Clayton Erickson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_frisbie b 2-15.db
Dataset field/well/stkml/pass3.12/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	124	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	355	20		4801

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



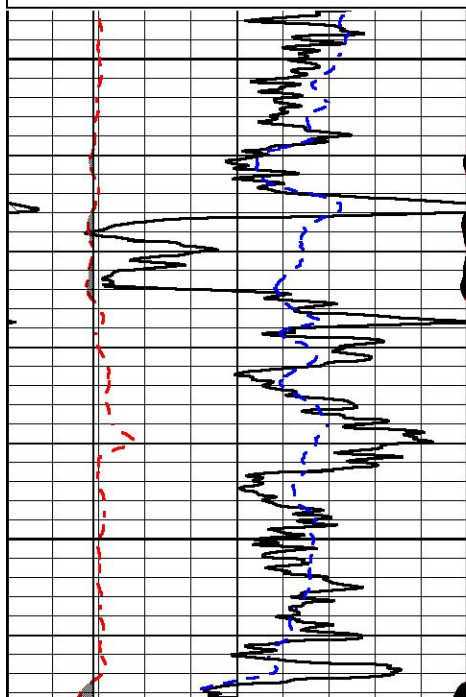
DETAIL SECTION

MAIN PASS

Database File murfin_frisbie b 2-15.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Wed Jan 05 09:23:05 2022
Charted by Depth in Feet scaled 1:240

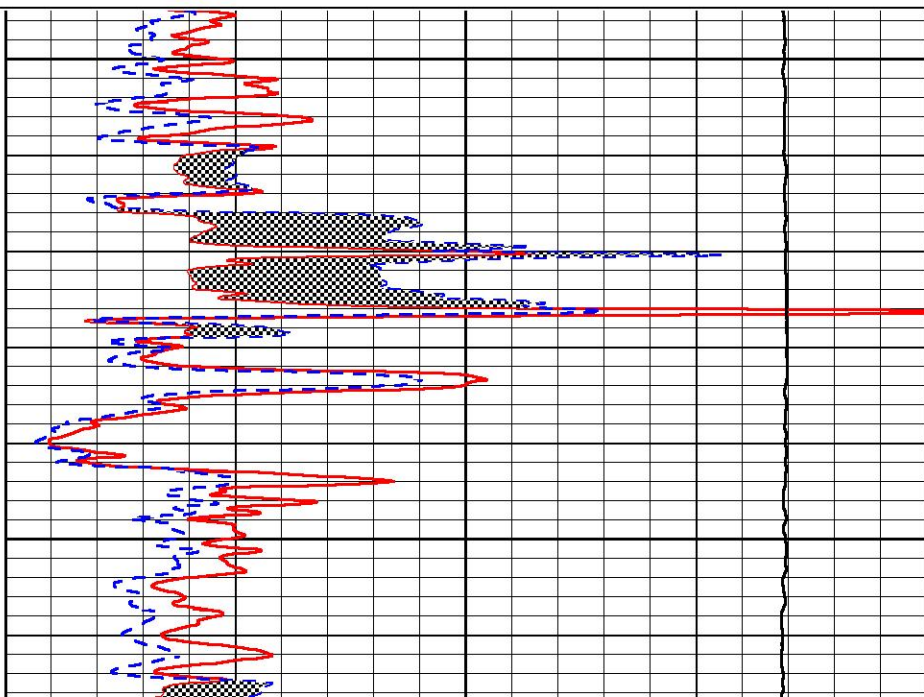
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

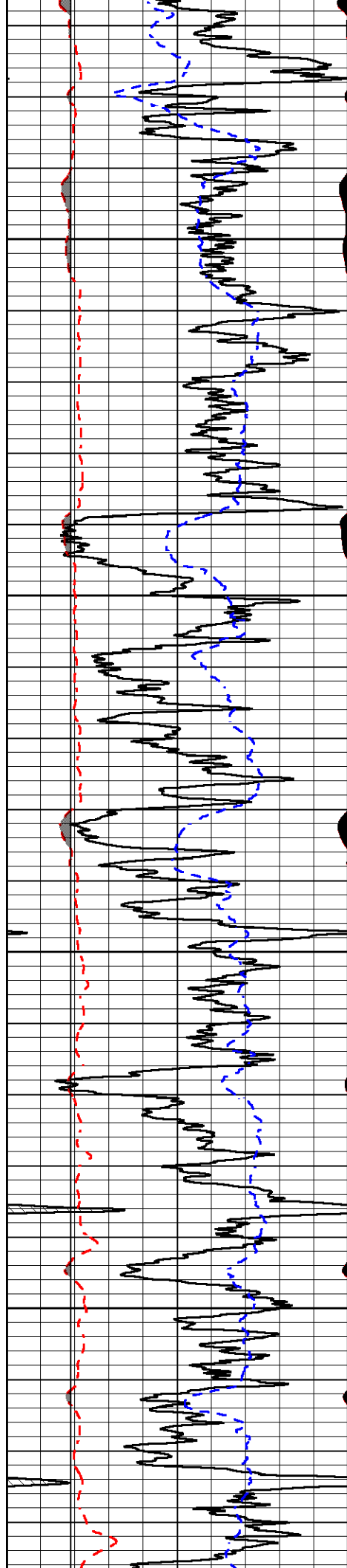
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3550

3600



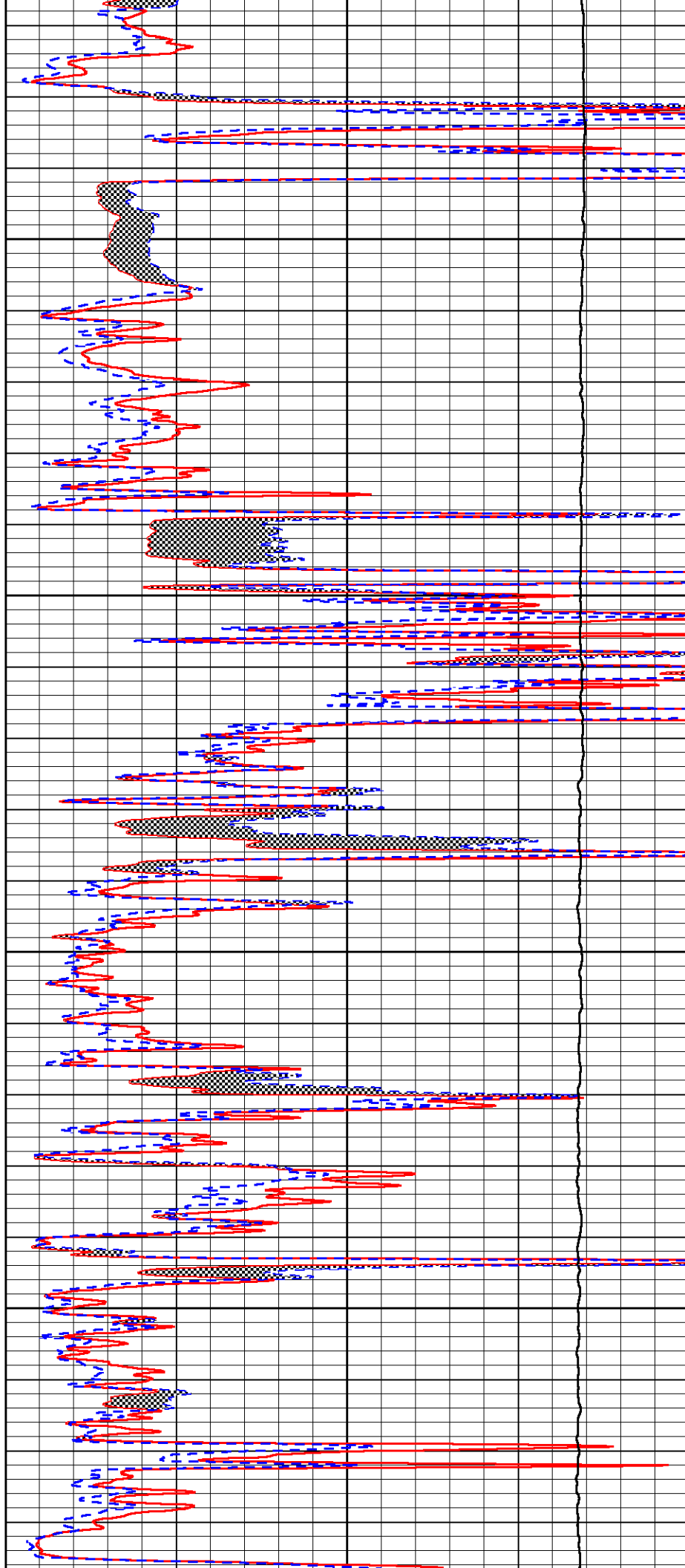


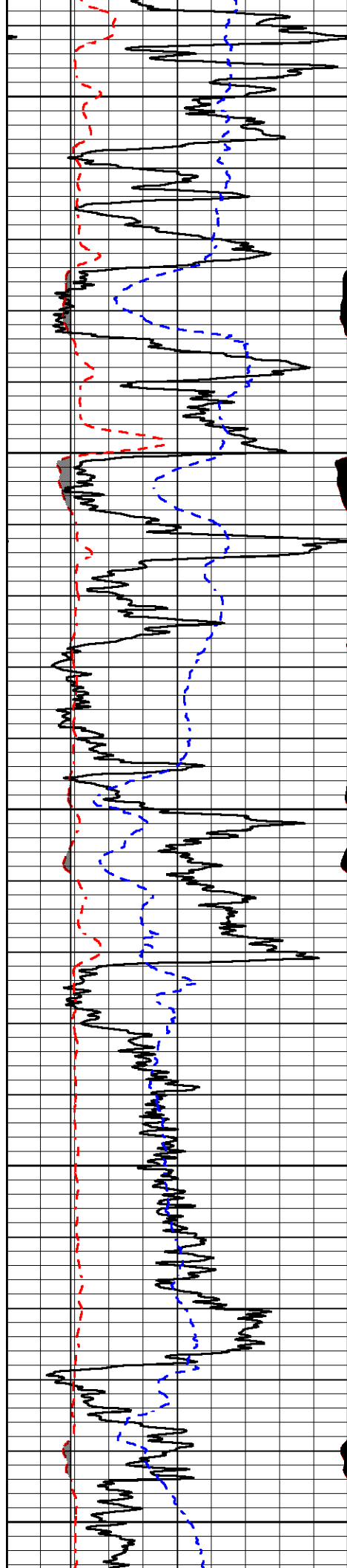
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3700

3750

3800





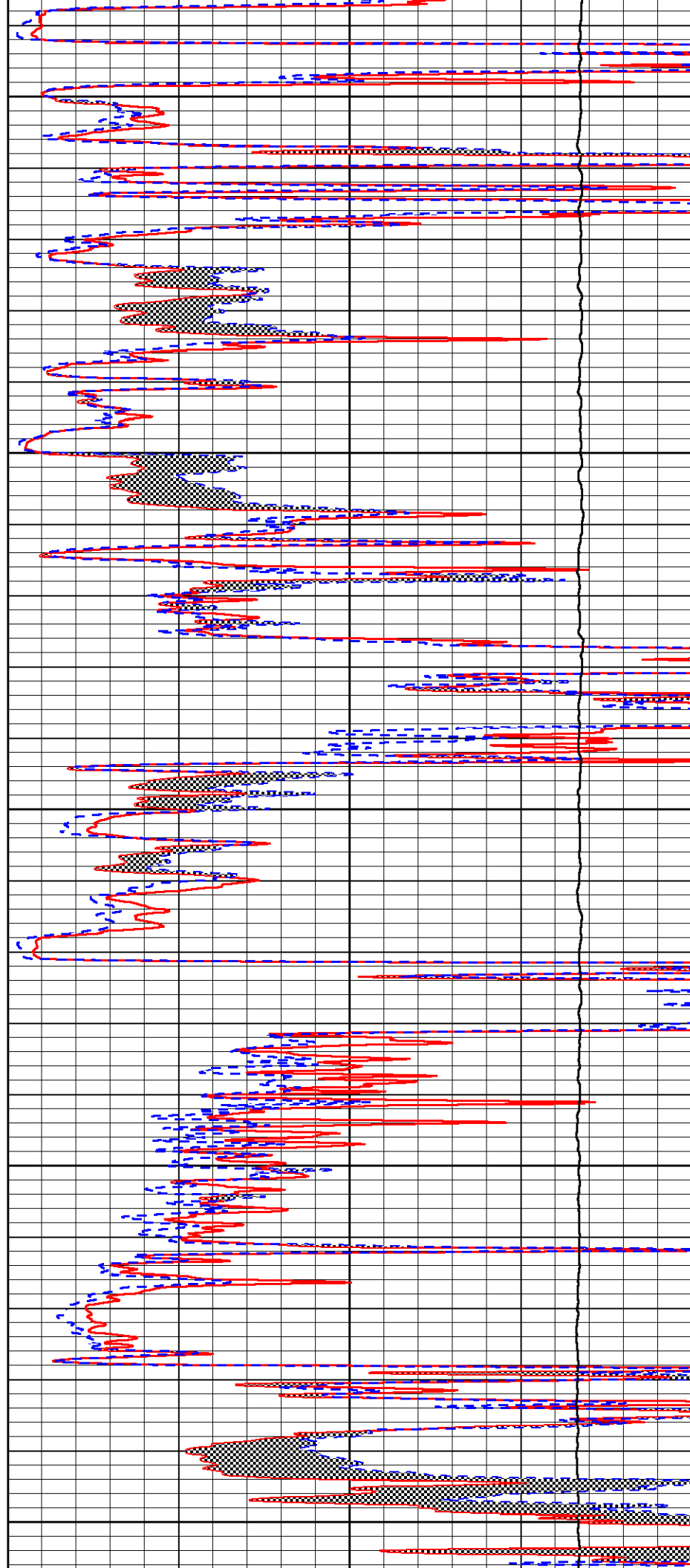
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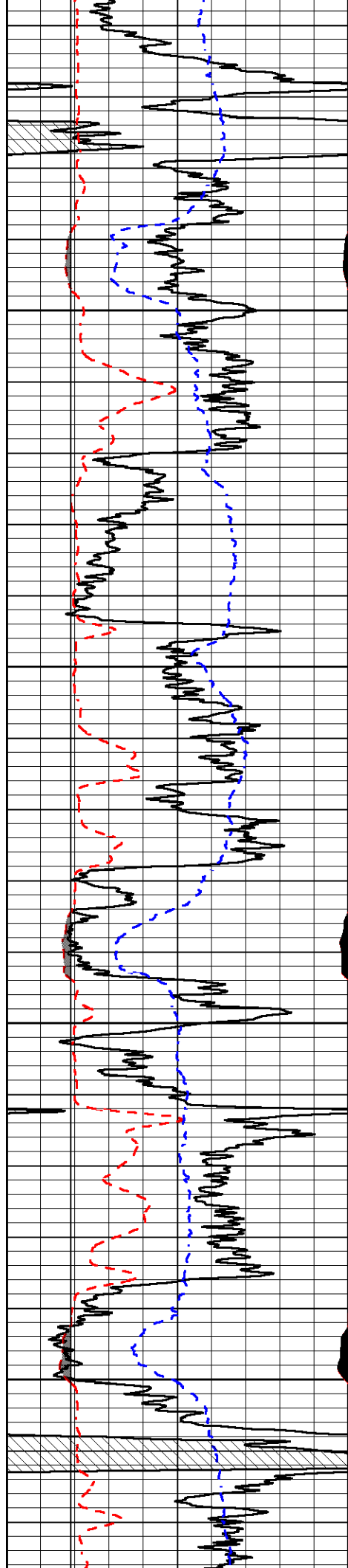
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3950

4000

4050



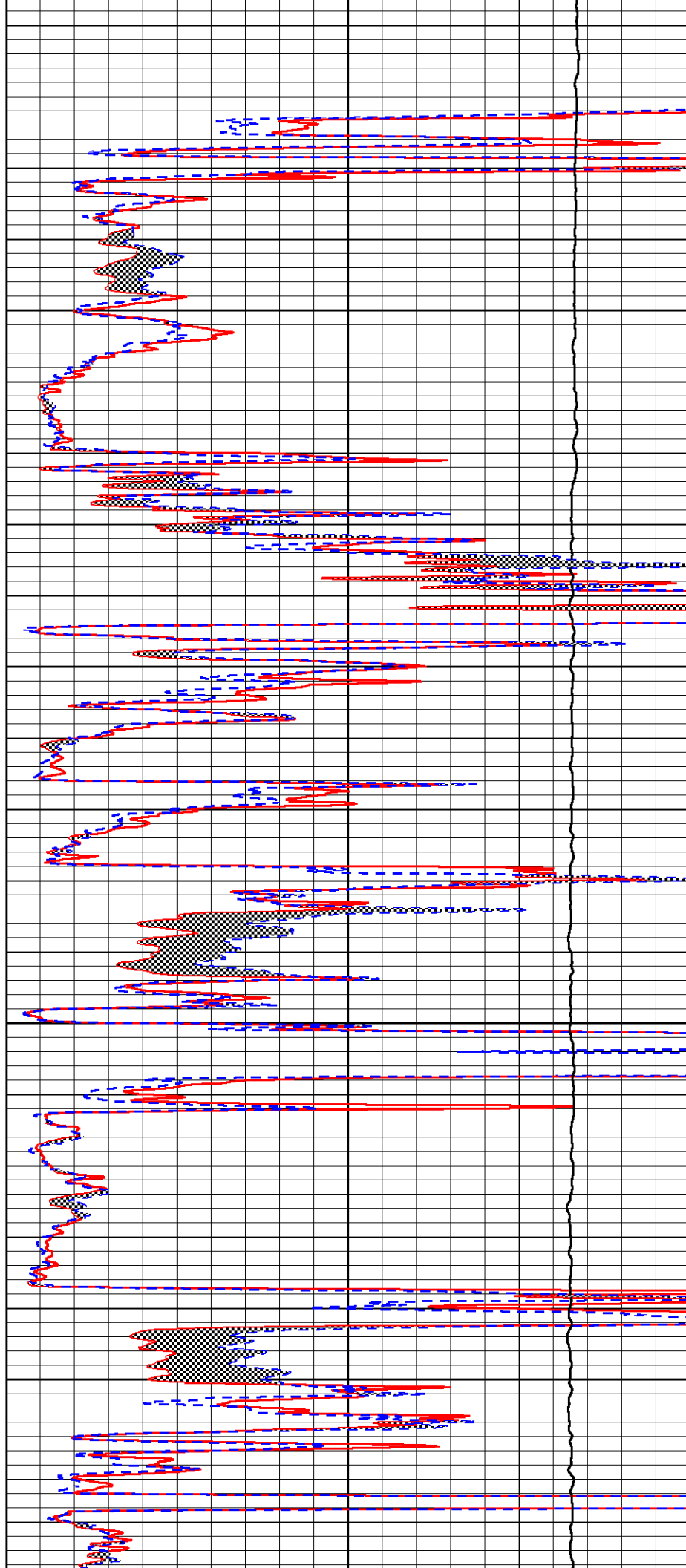


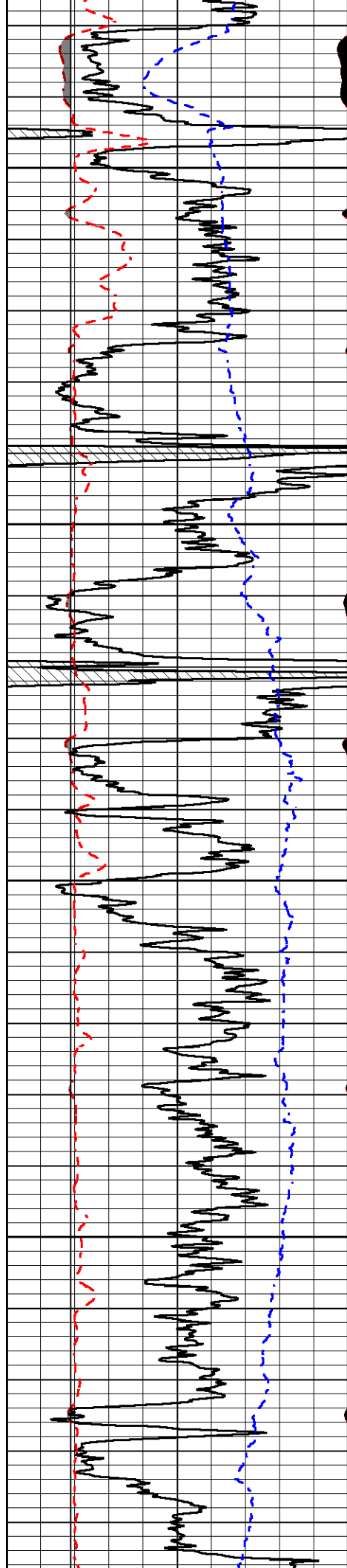
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4150

4200

4250



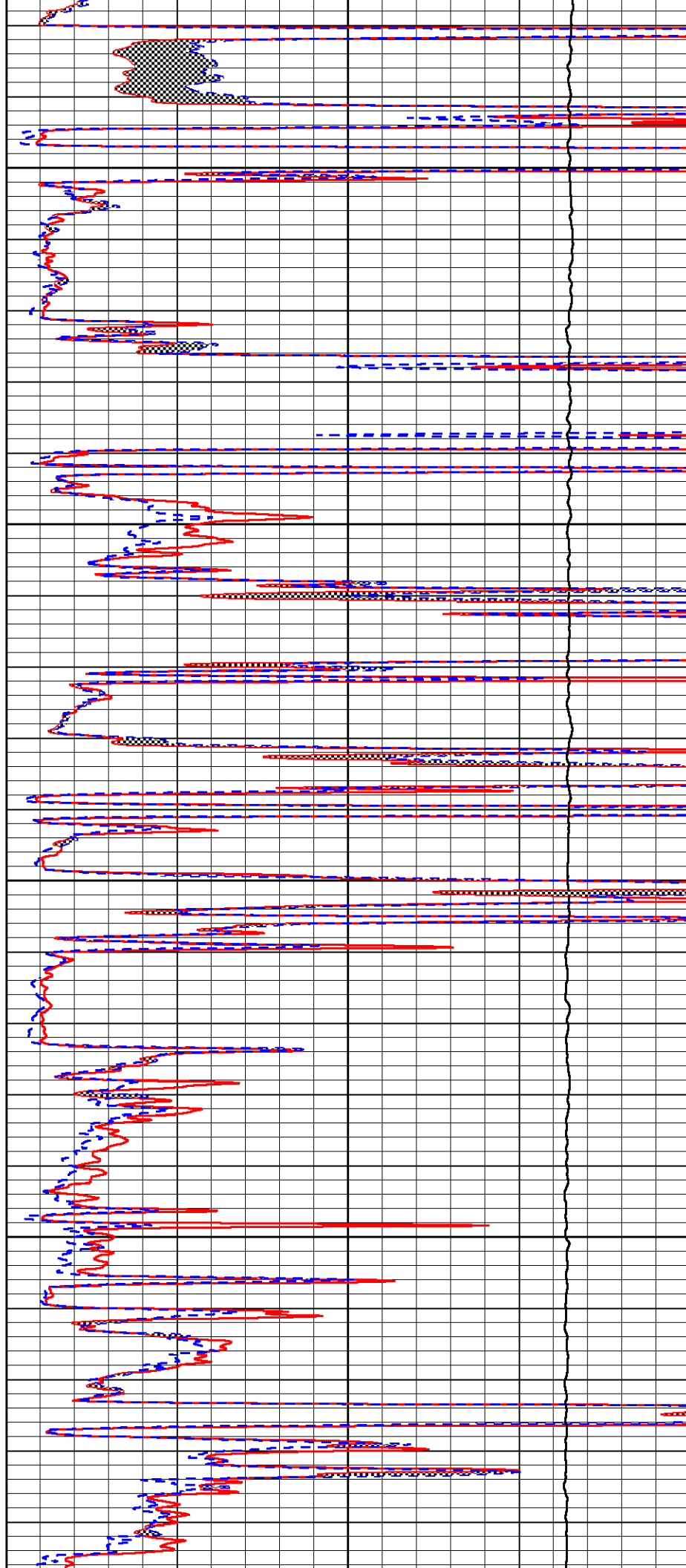


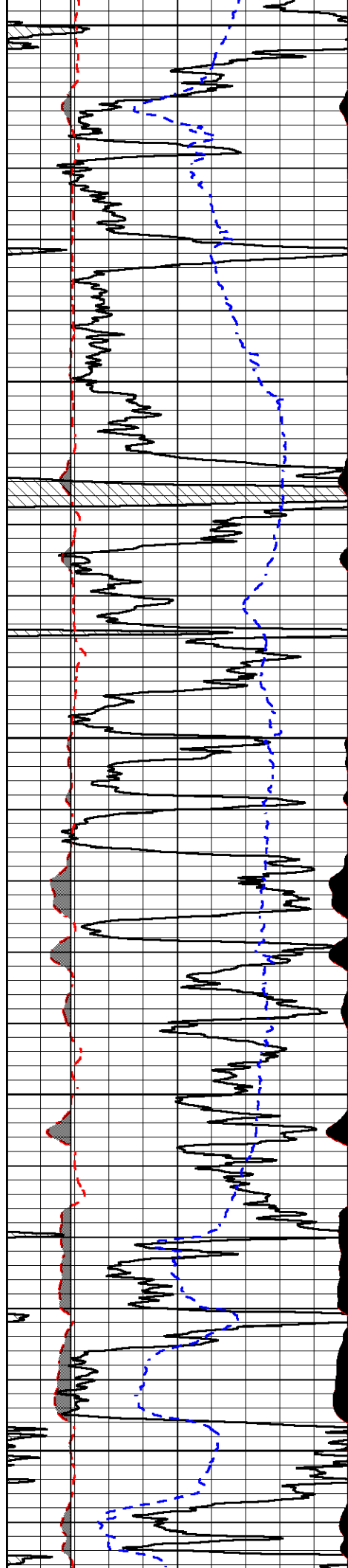
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4350

4400

4450





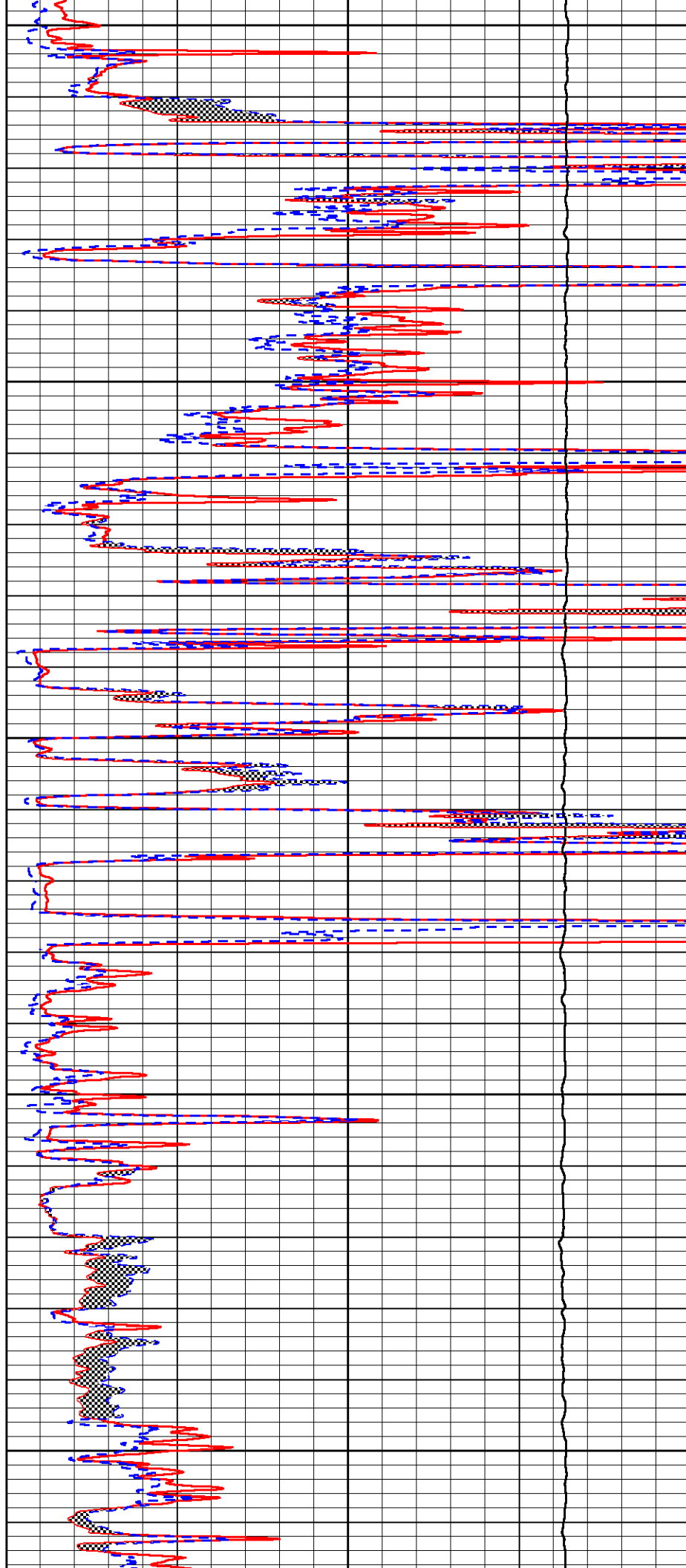
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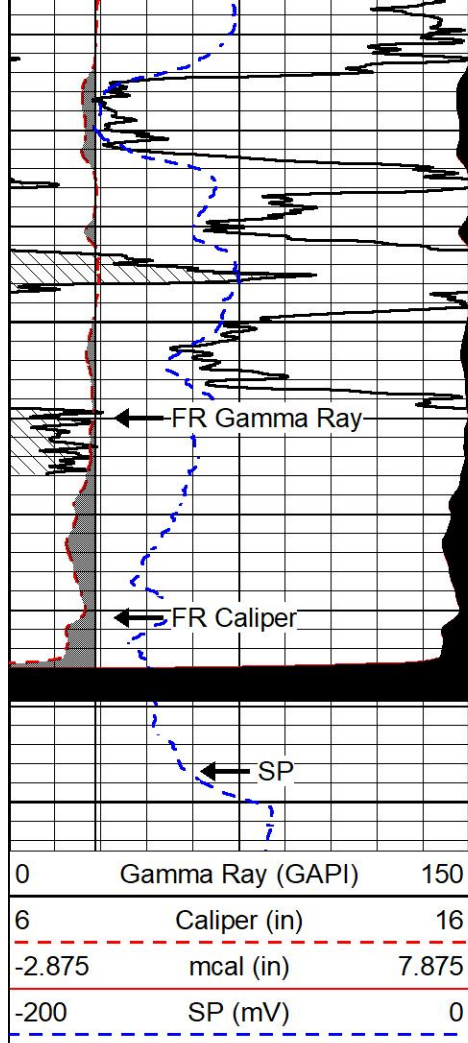
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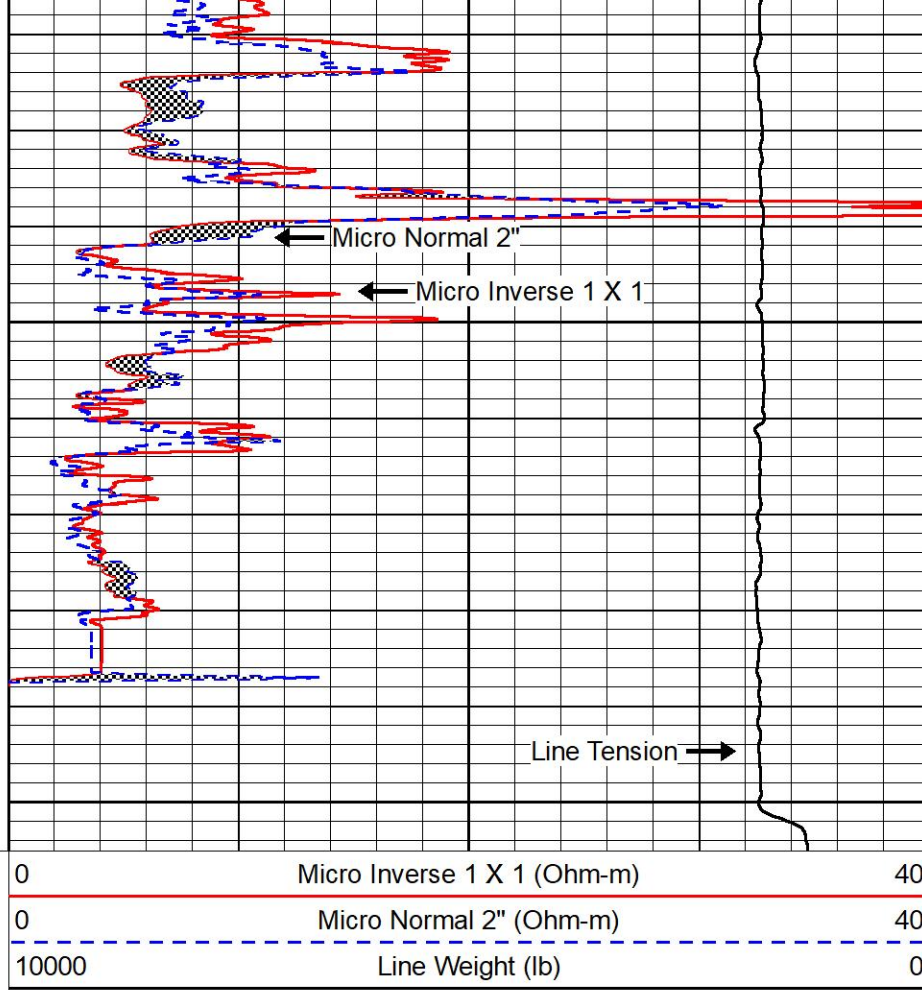
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4750

4800

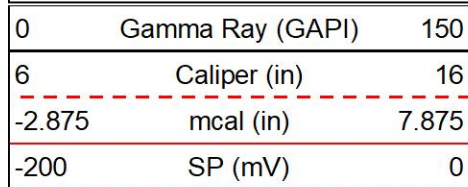


MIDWEST WIRELINE

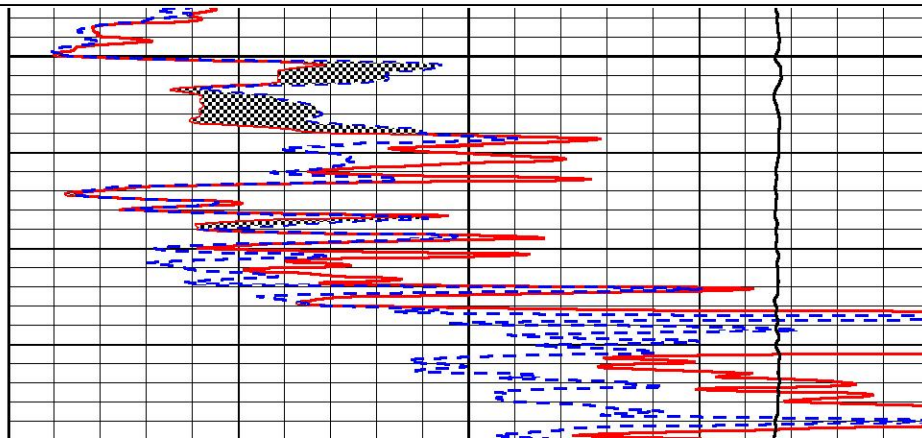
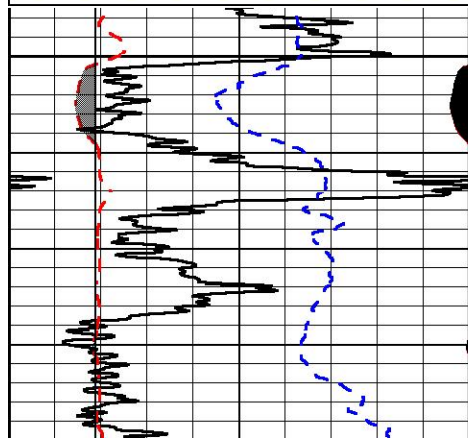
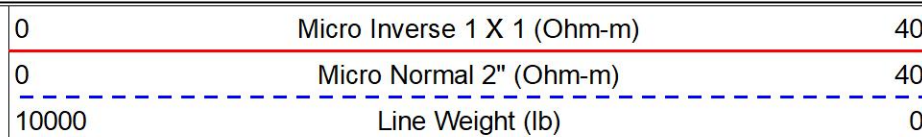
REPEAT SECTION

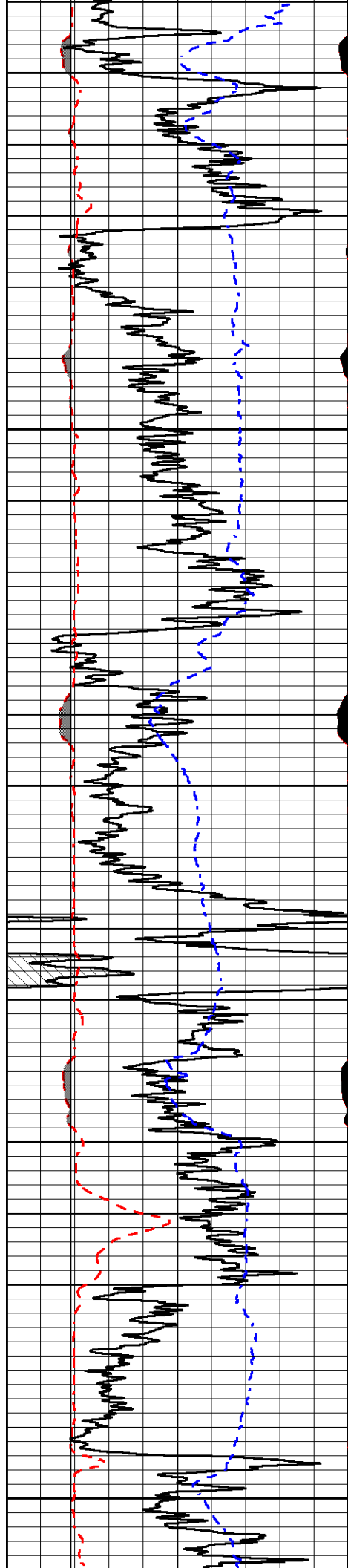
REPEAT PASS

Database File: murfin_frisbie b 2-15.db
 Dataset Pathname: stkml/pass2.1
 Presentation Format: _micro
 Dataset Creation: Wed Jan 05 09:00:58 2022
 Charted by: Depth in Feet scaled 1:240



3900





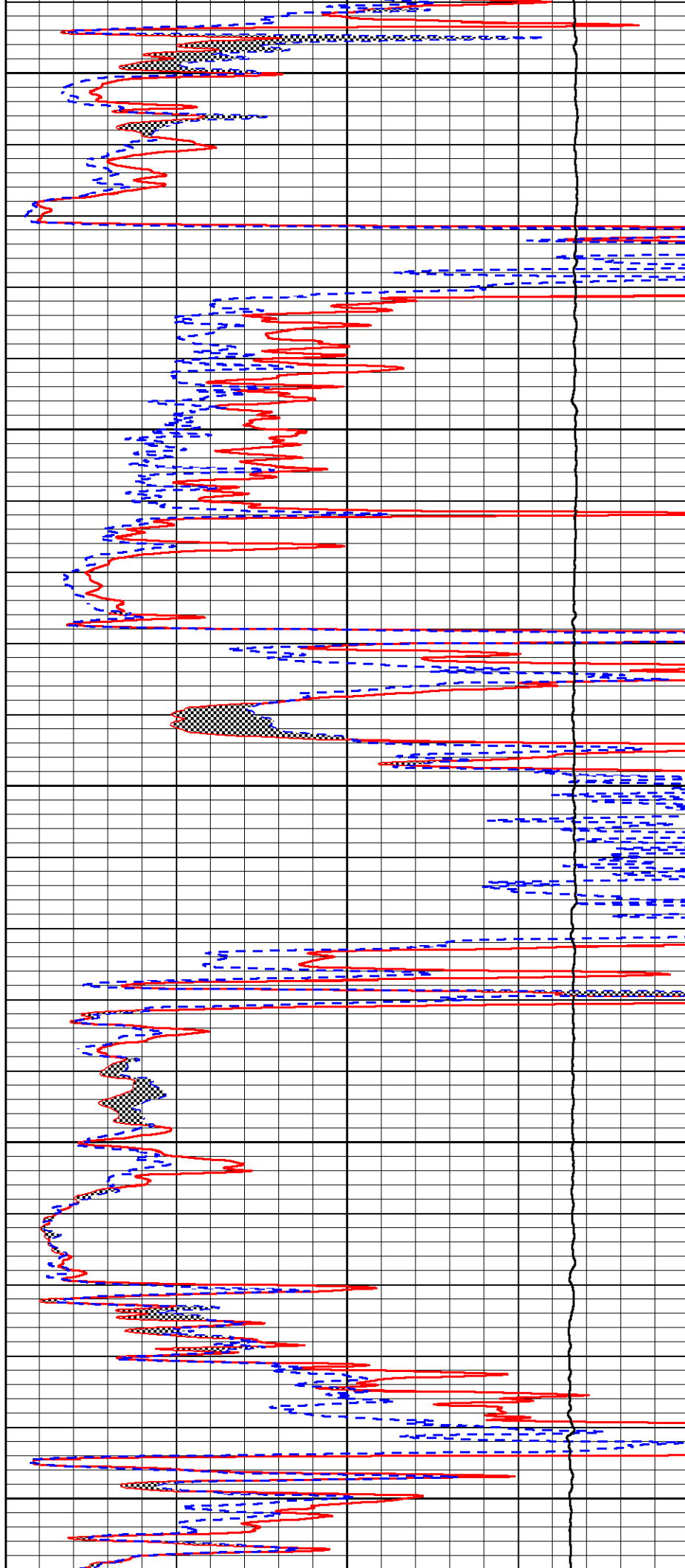
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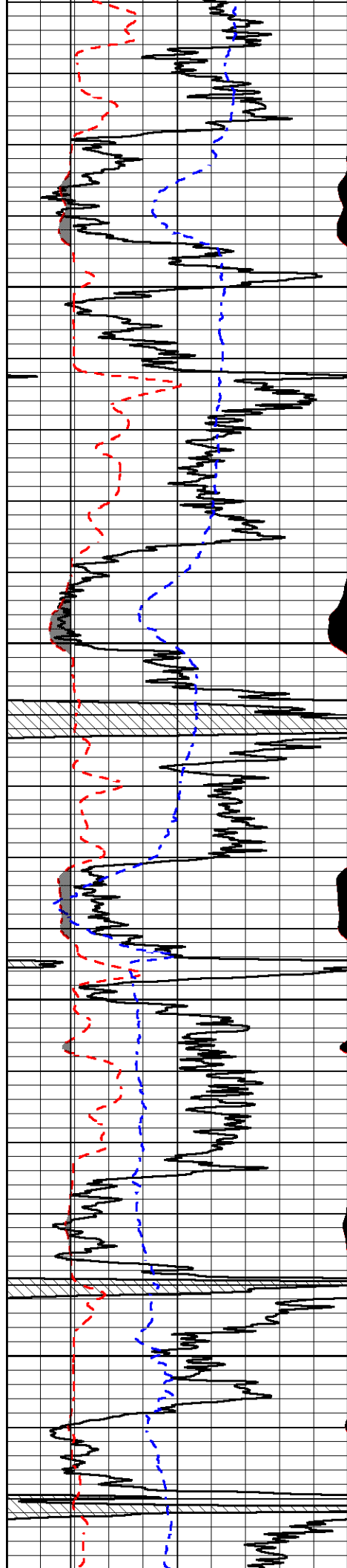
4000

4050

4100

4150



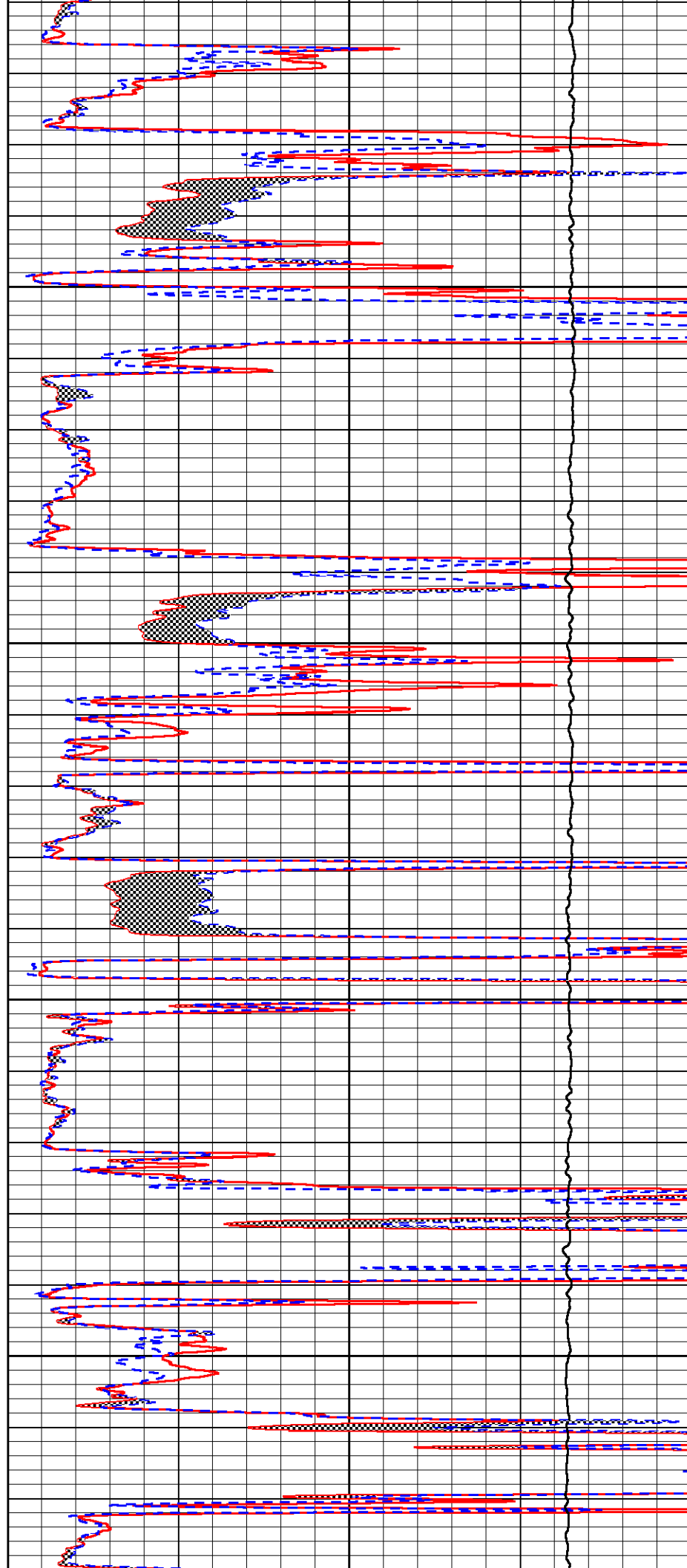


4200

4250

4300

4350



Serial-Model:
Performed:

402-PSIML
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	33000.0000	-1.5500
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-142.5000

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

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



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Well Frisbie B #2-15
Field



County	Rawlins
State	Kansas