

MIDWEST WIRELINE

MICRORESISTIVITY LOG

CompanyGriffin Management LLC		Company Griffin Management LLC	
Well	Stacy #4	Well	Stacy #4
Field	Moffett	Field	Moffett
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24404-00-00		Other Services	
SEC 9 TWP 30S RGE 15W		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1994
Log Measured From	Kelly Bushing	K.B.	2006
Drilling Measured From	Kelly Bushing	D.F.	1994
G.L.	1994		
Date	10/23/2022		
Run Number	One		
Depth Driller	4839		
Depth Logger	4842		
Bottom Logged Interval	4841		
Top Log Interval	2800		
Casing Driller	8.625 @ 264		
Casing Logger	268		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7000		
Density / Viscosity	9.3 55		
pH / Fluid Loss	11.0 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.8 @ 76		
Rmf @ Meas. Temp	0.6 @ 76		
Rmc @ Meas. Temp	1.08 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.49 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Eli Felts		

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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.

Pratt, W to Croft Blktp, S to 110,
1 E, S & E into

Log Measured From: Kelly Bushing

12 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: Eli Felts
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)		
GR	40.33			GR-M&W (106)	3.00	3.50	50.00		
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00		
LSD DCAL SSD	28.18			CDL-M&W (307-11)	8.50	4.00	250.00		
	28.17			ML-PSIML (401)	7.58	4.00	65.00		
	27.68								
MCAL MI MN	19.58								
	19.58								
	19.58								
RLL3F RLL3	15.50 15.50			DIL-M&W (501 HT)	18.25	3.50	220.00		
CILD	8.33								
	CILM							4.50	
SP	0.20								
Dataset: griffin_stacy #4.db: field/well/StkMI/pass3.1									
Total length: 42.33 ft									
Total weight: 685.00 lb									
O.D.: 4.00 in									

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_stacy #4.db
Dataset field/well/StkMI/pass3.1/_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	180	90		4842

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



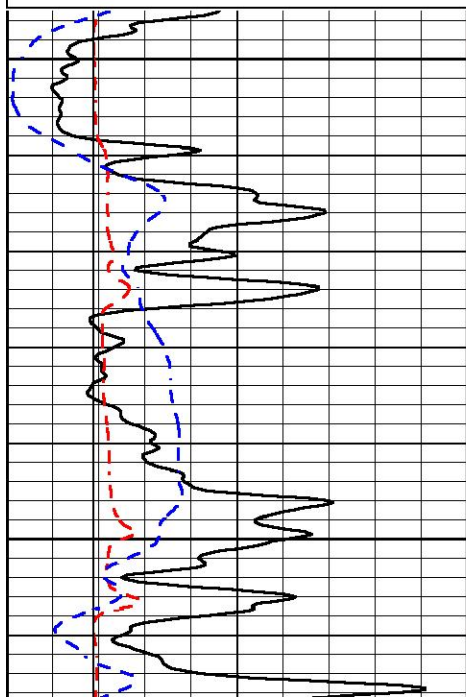
DETAIL SECTION

MAIN PASS

Database File griffin_stacy #4.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Sun Oct 23 17:18:30 2022
Charted by Depth in Feet scaled 1:240

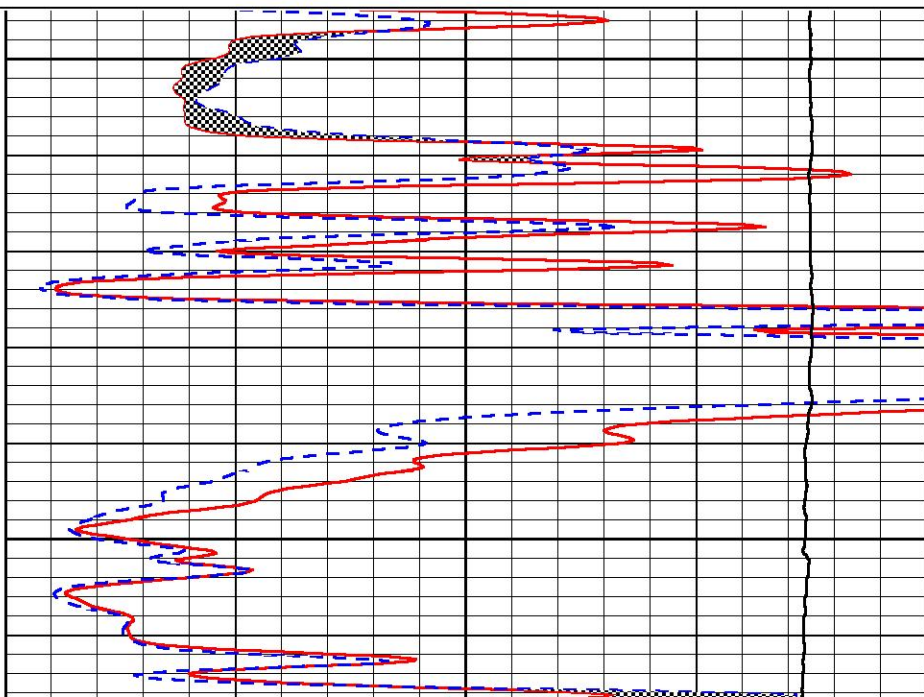
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6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

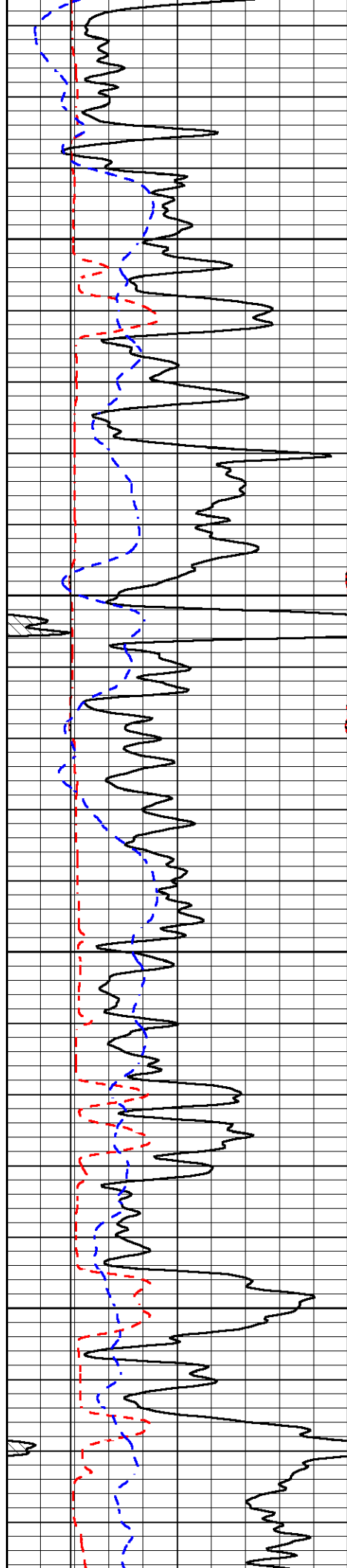
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



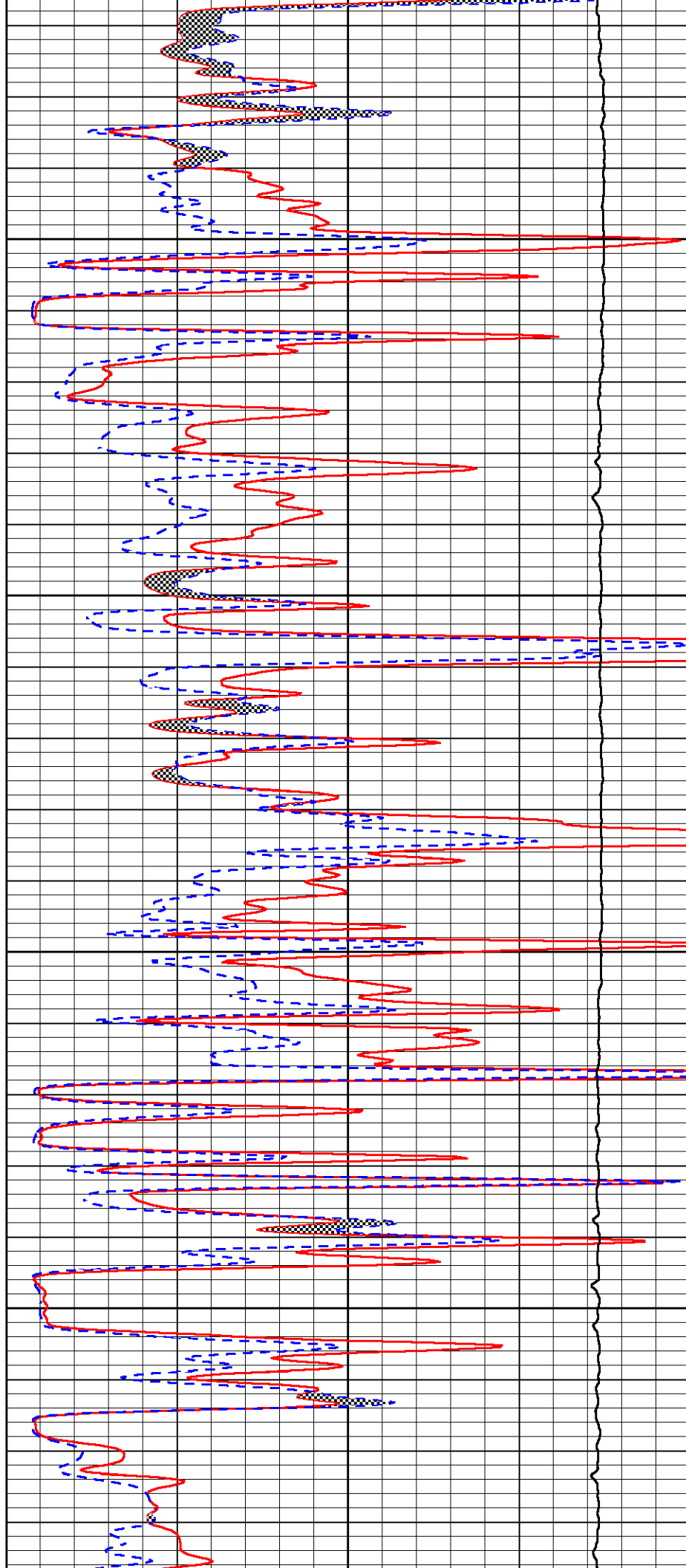


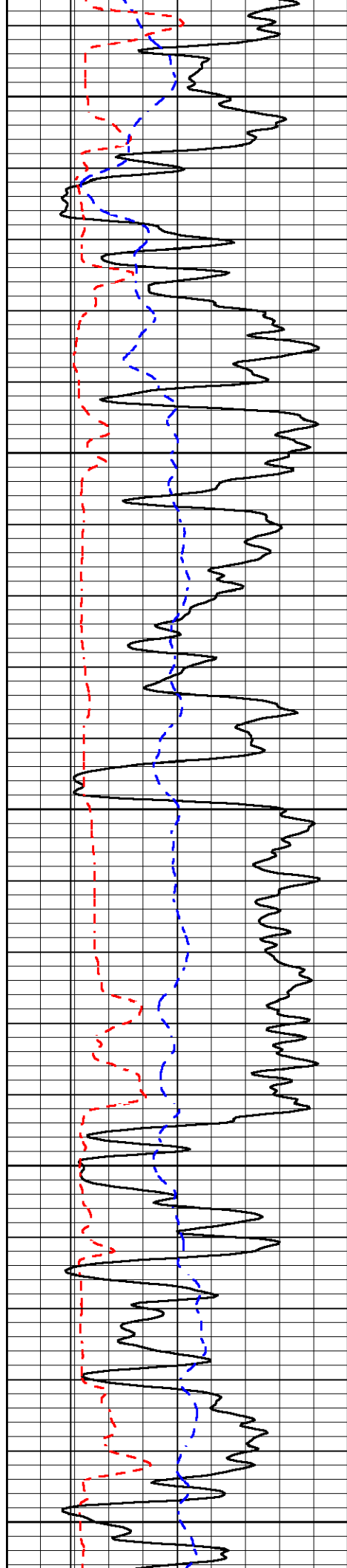
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2950

3000

3050





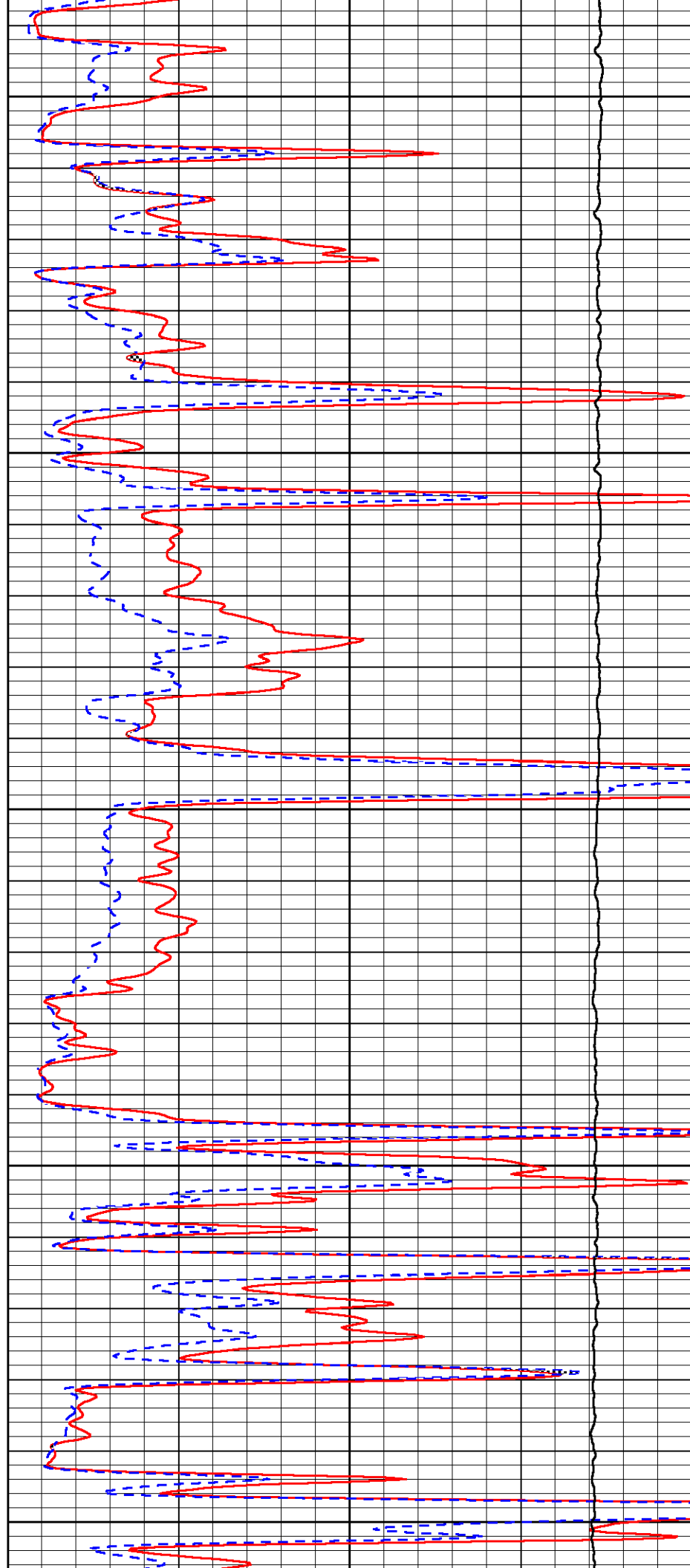
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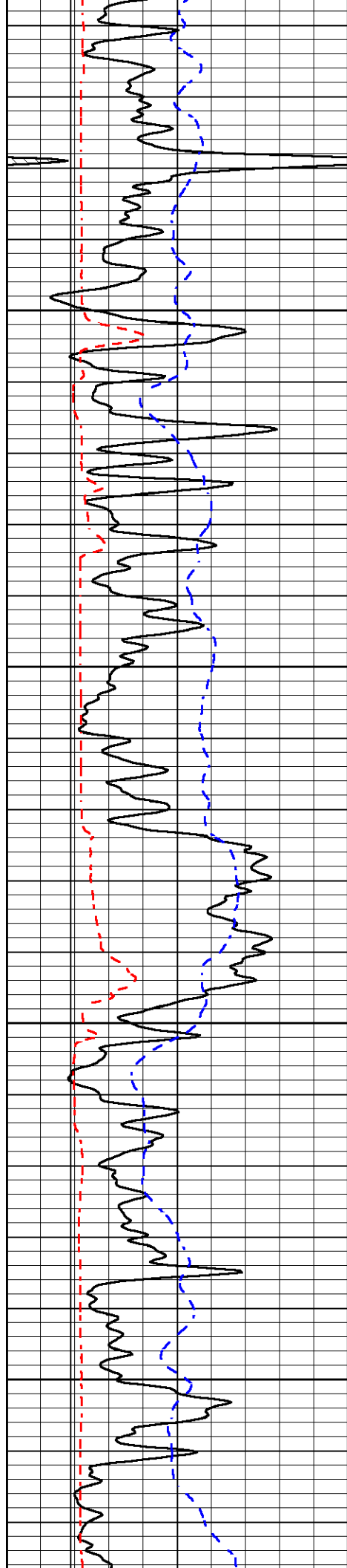
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3200

3250

3300



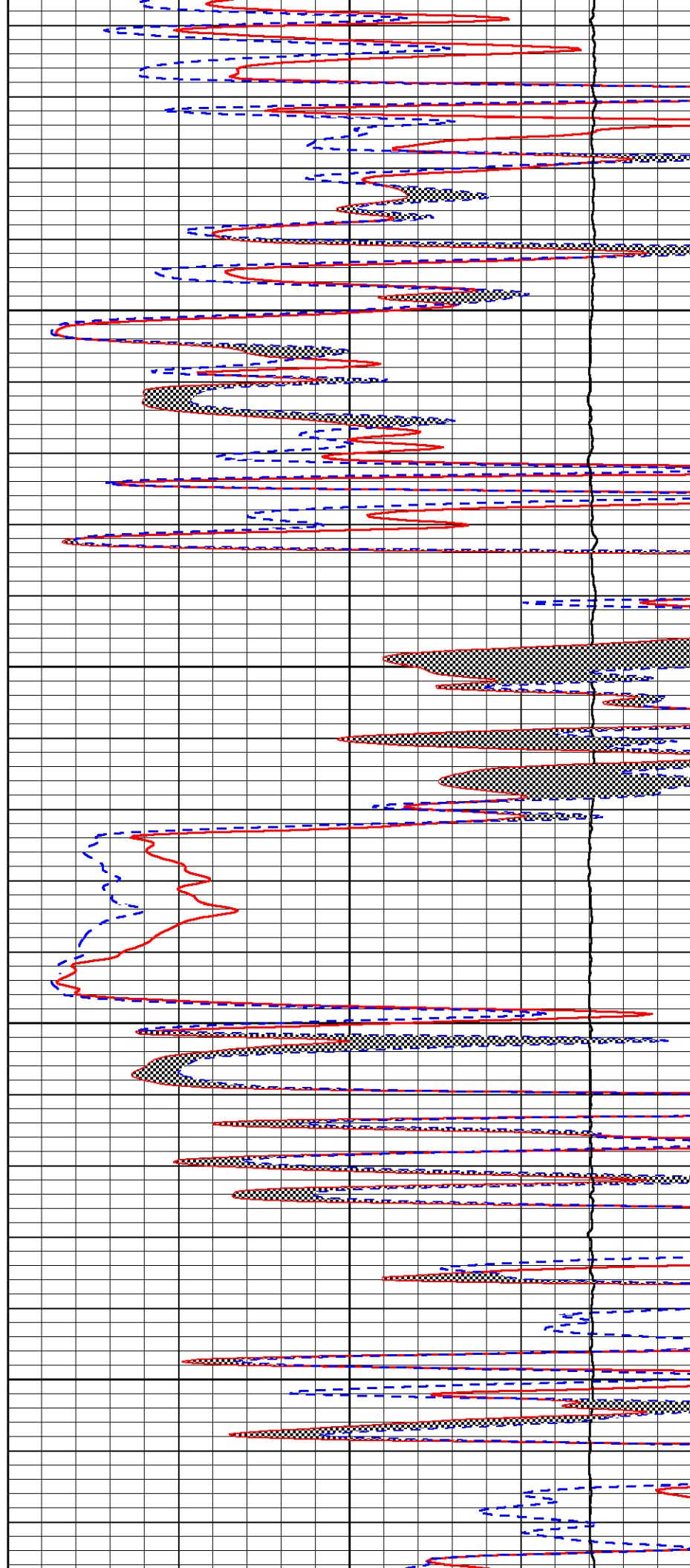


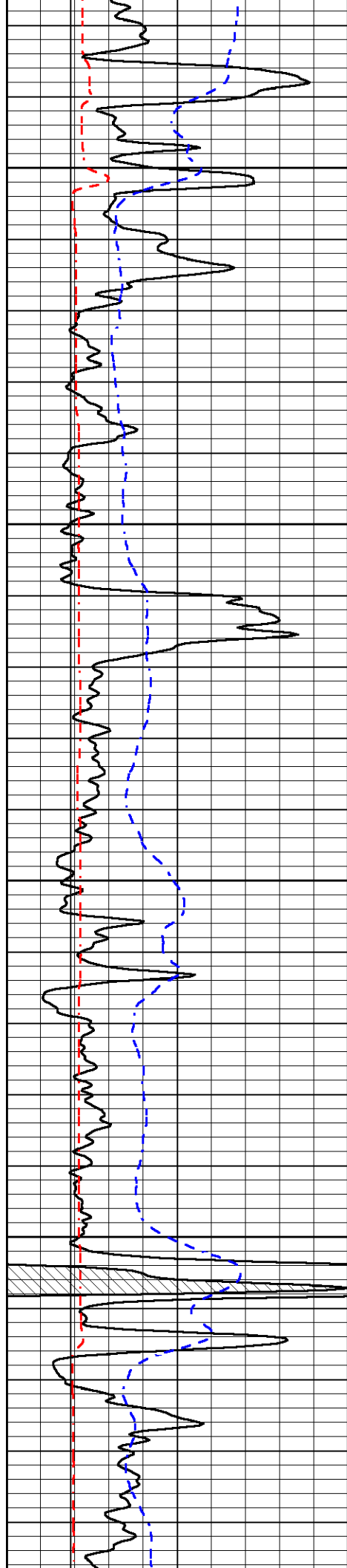
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3400

3450

3500



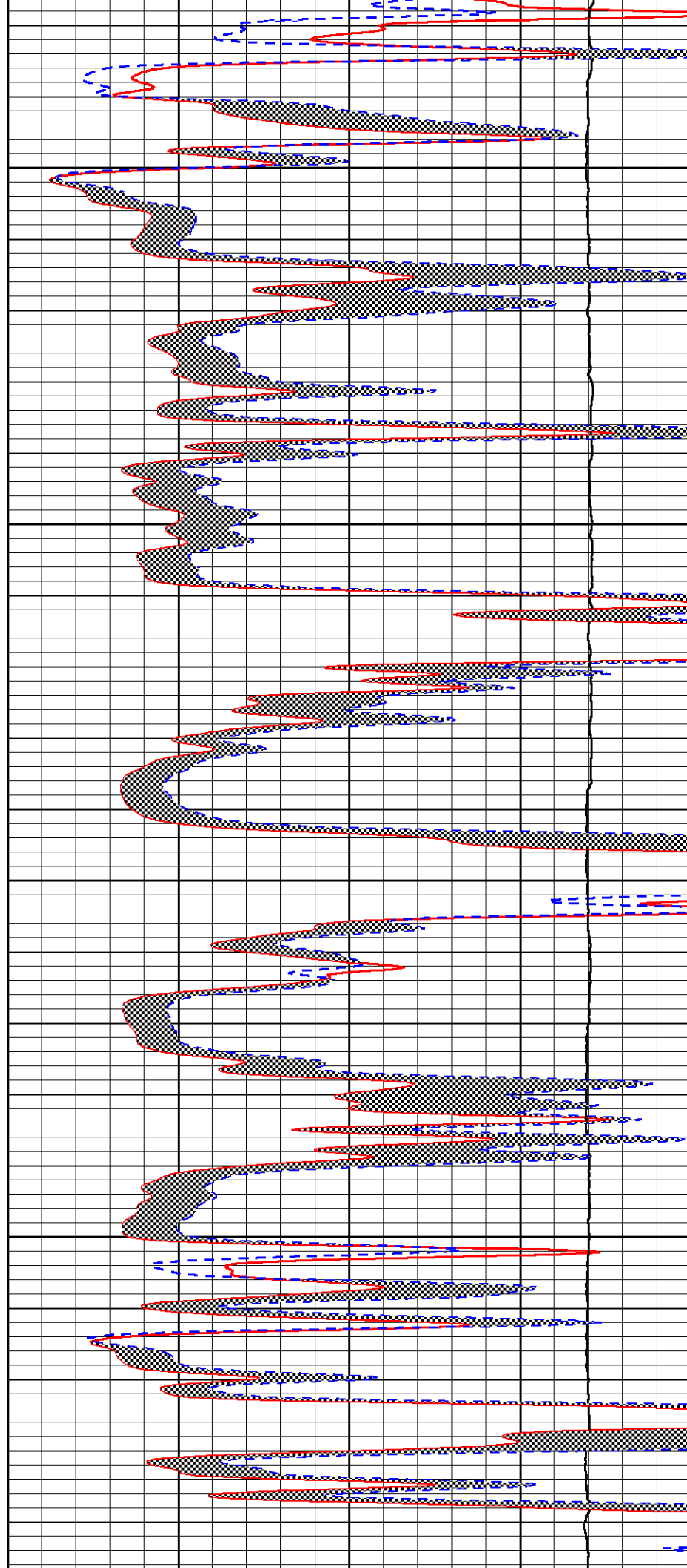


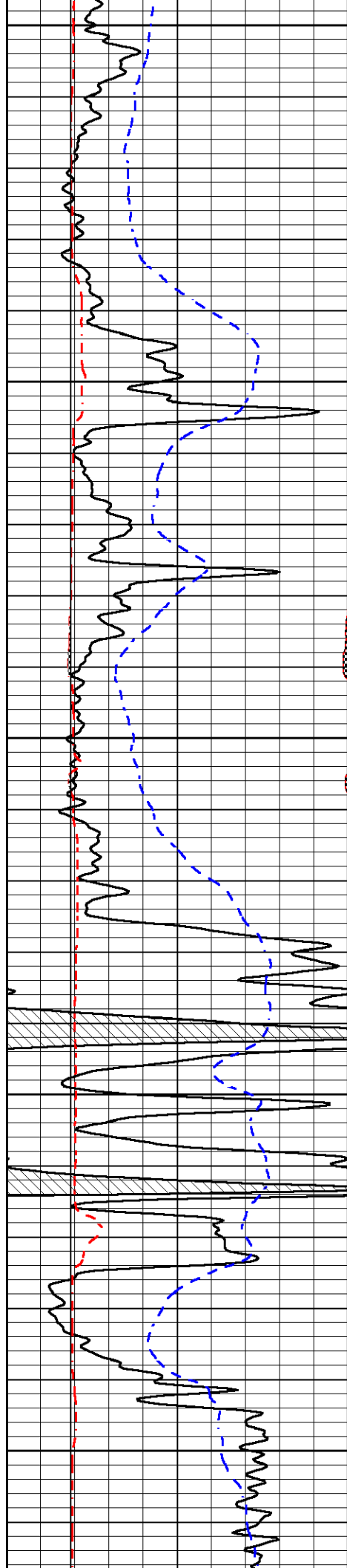
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3600

3650

3700





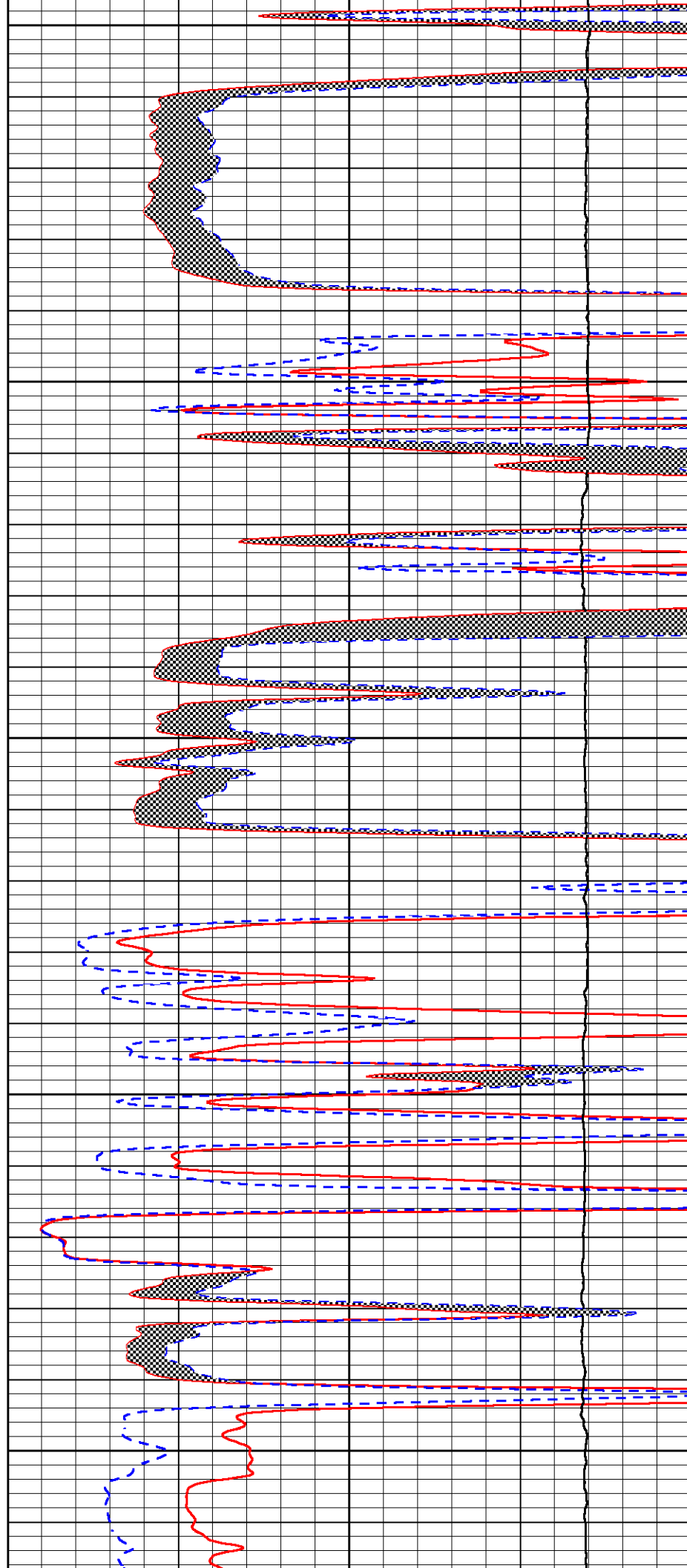
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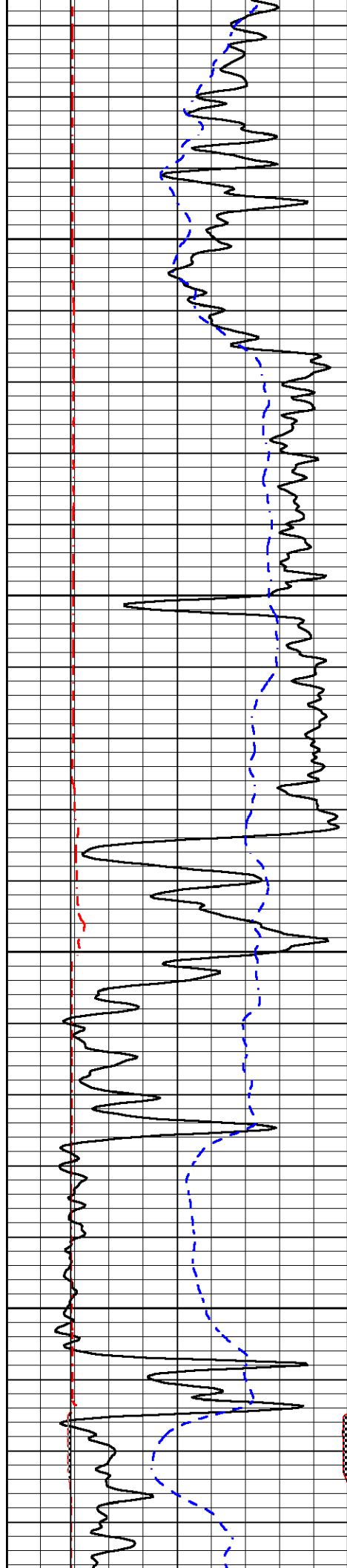
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3850

3900

3950



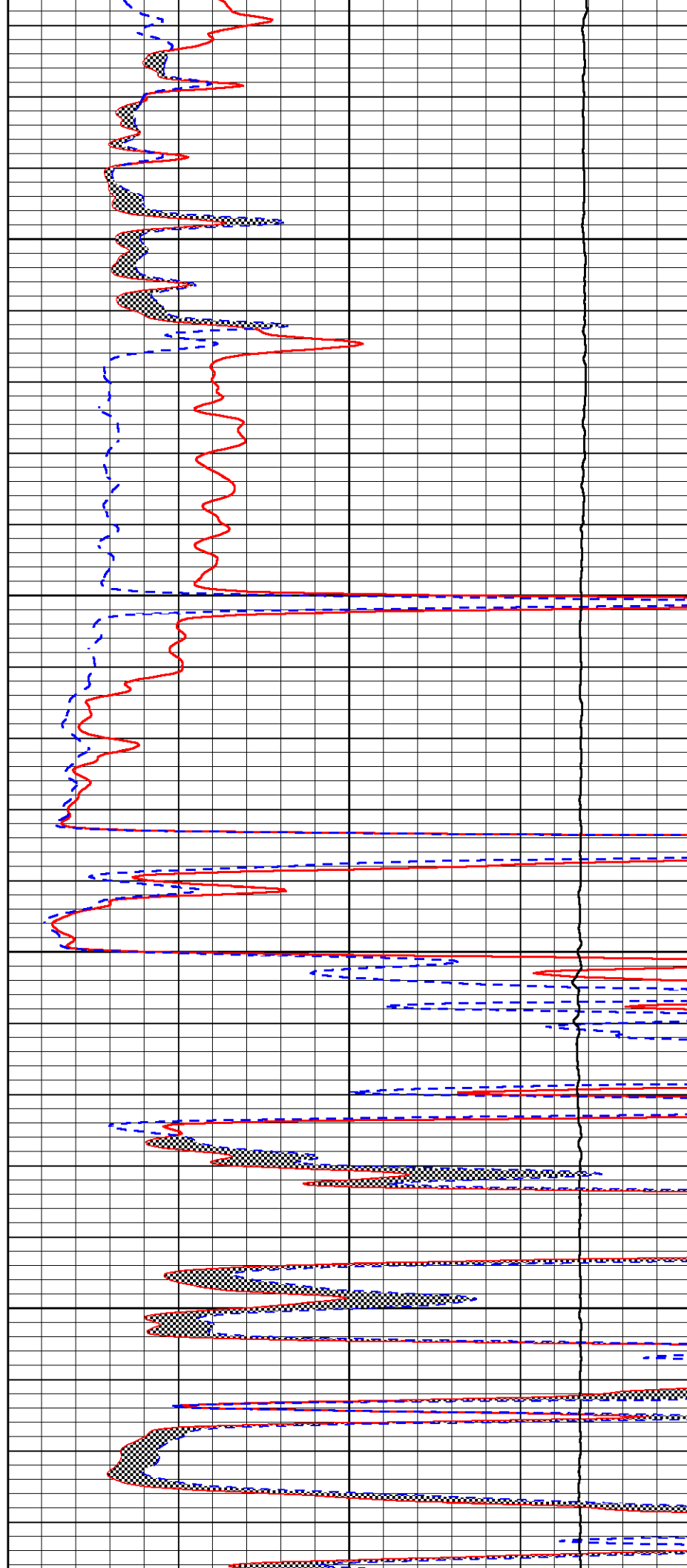


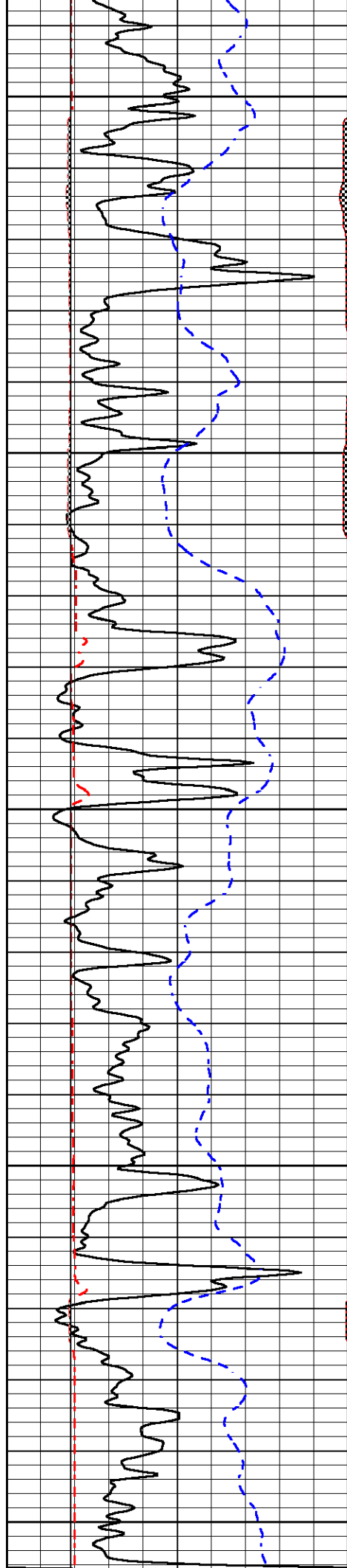
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4050

4100

4150





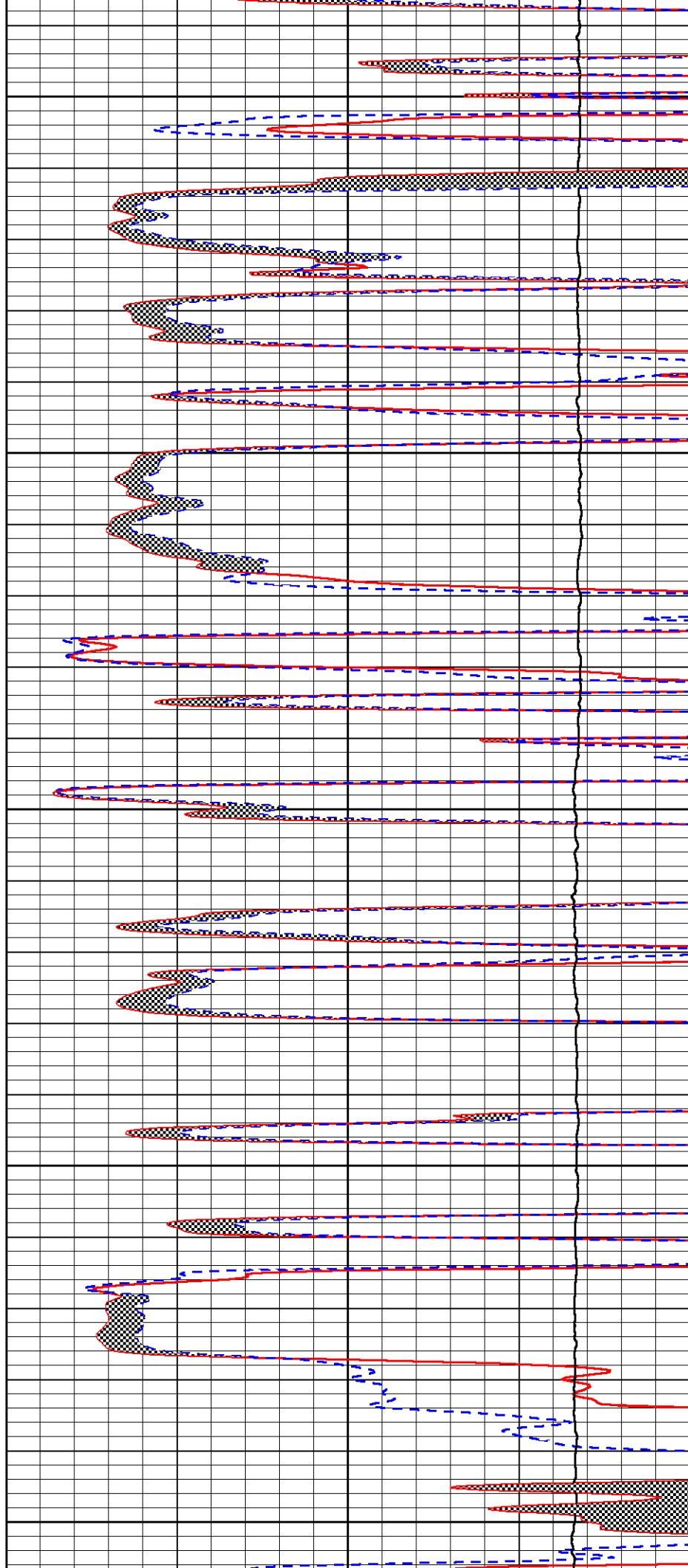
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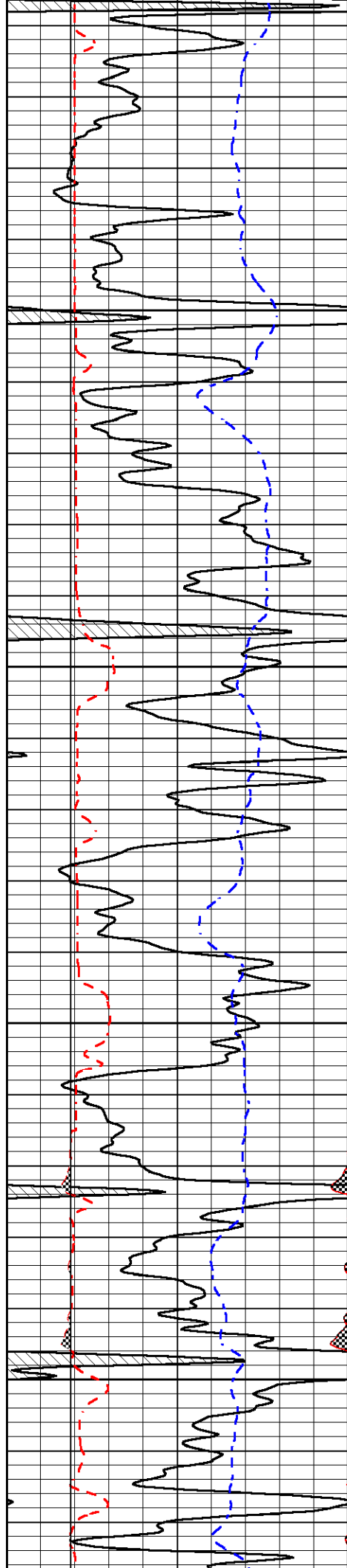
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4300

4350

4400



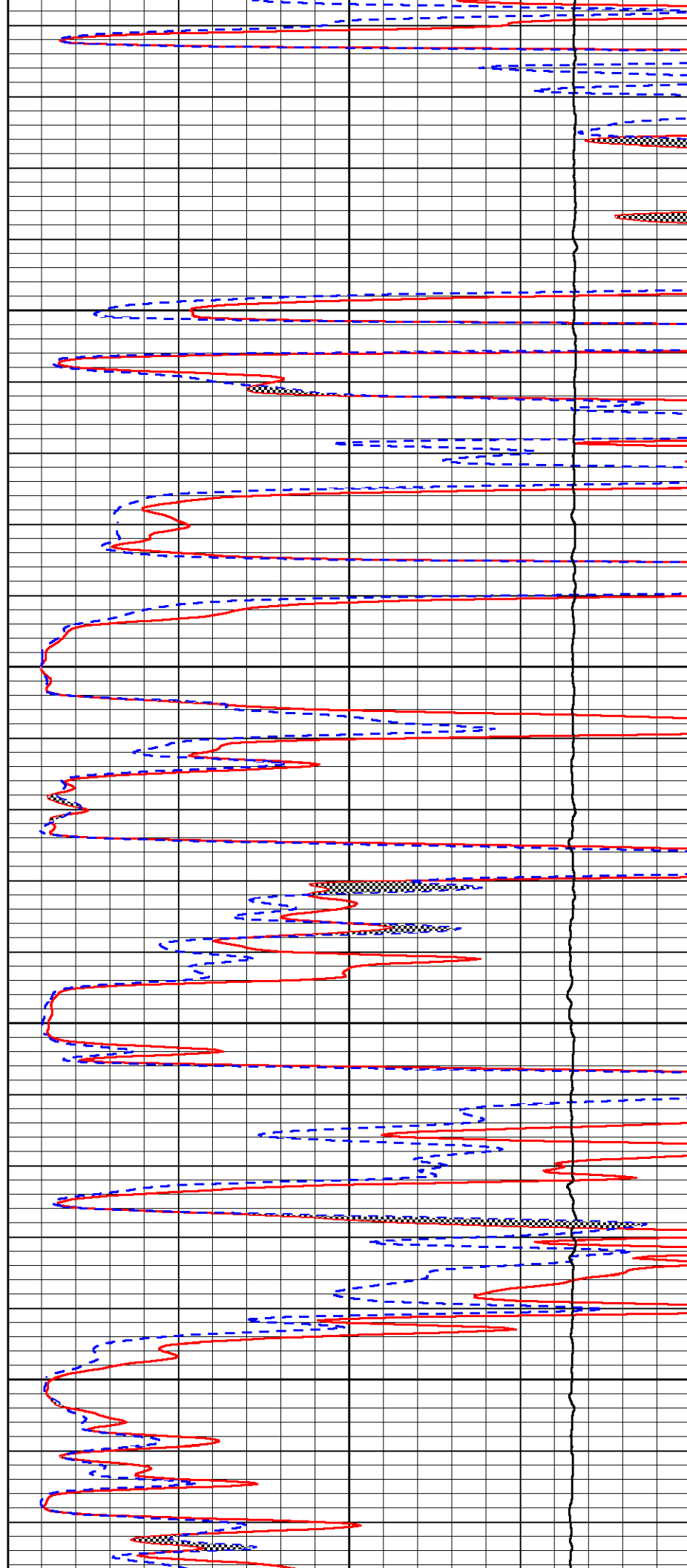


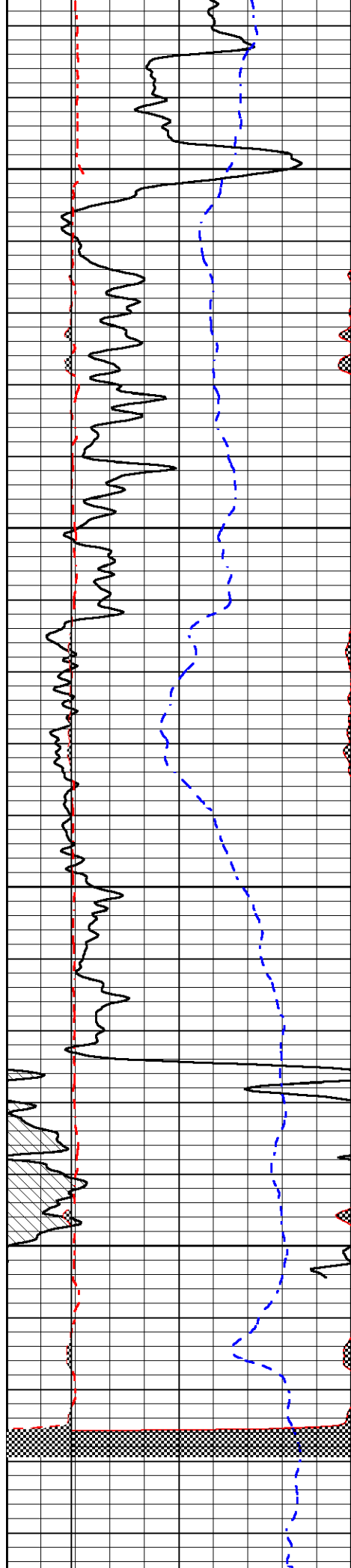
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4500

4550

4600



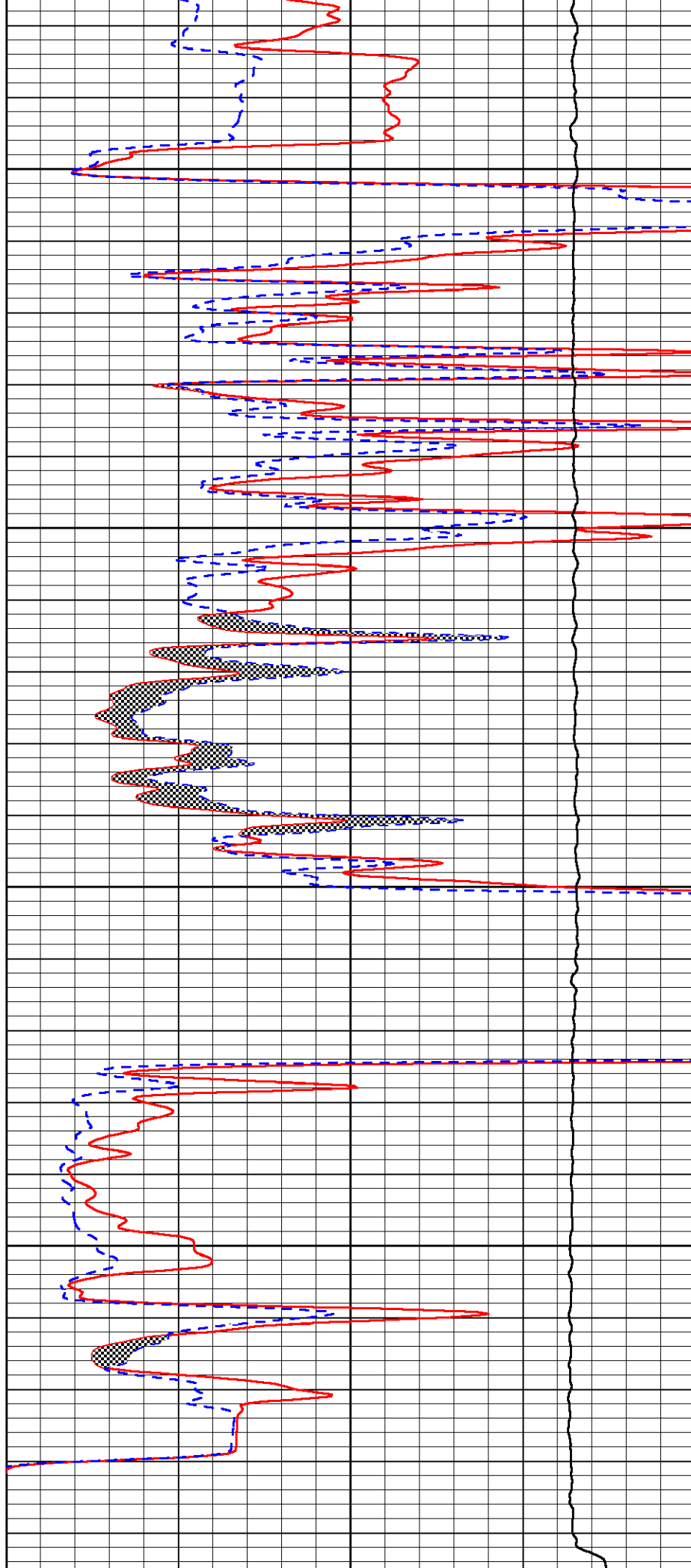


4650

4700

4750

4800



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



MIDWEST WIRELINE

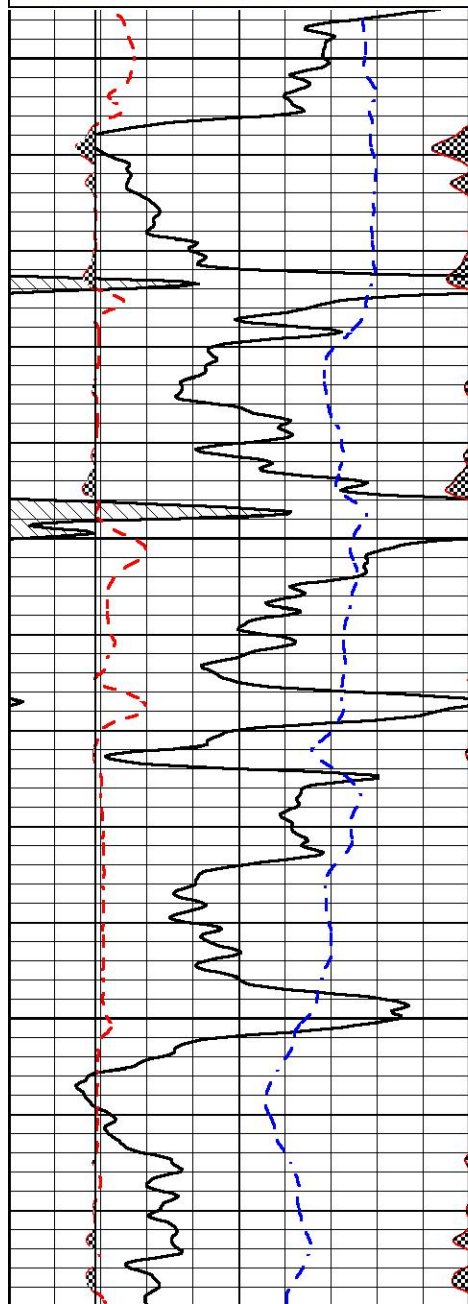
REPEAT SECTION

REPEAT PASS

Database File griffin_stacy #4.db
Dataset Pathname StkMI/pass2.1
Presentation Format _micro
Dataset Creation Sun Oct 23 16:21:01 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

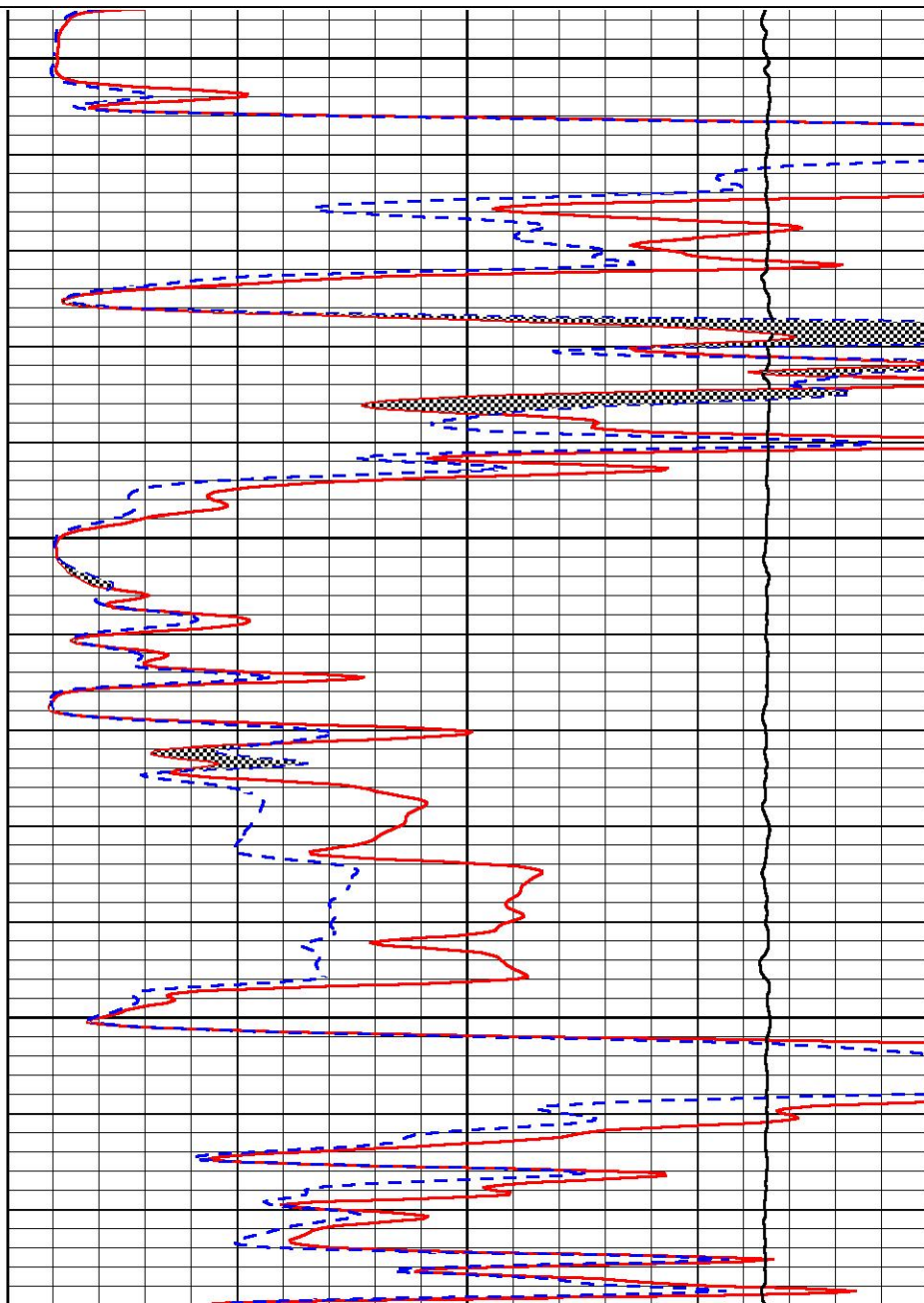
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

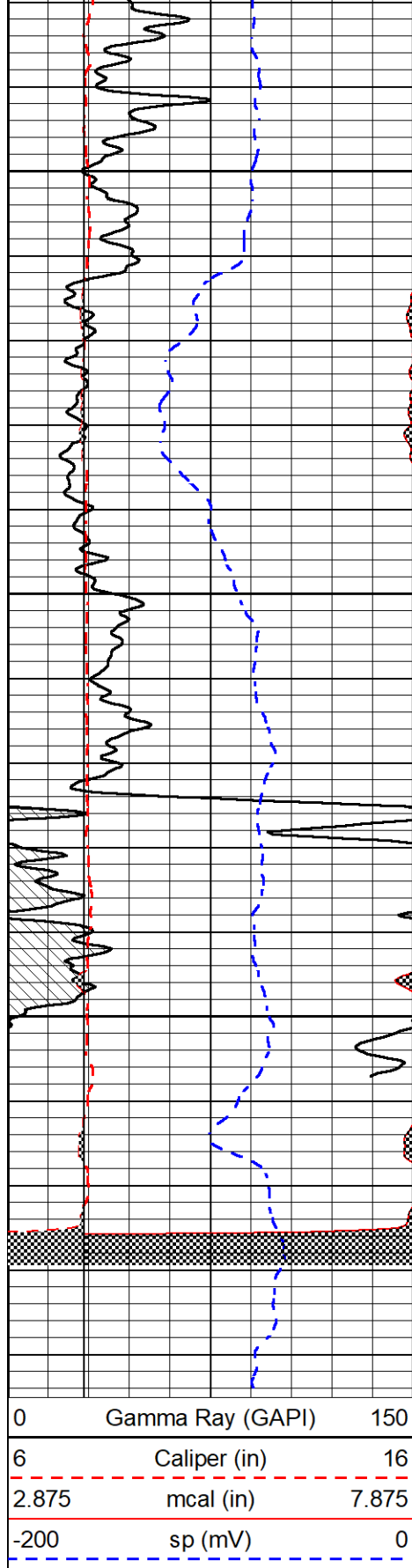


4550

4600

4650

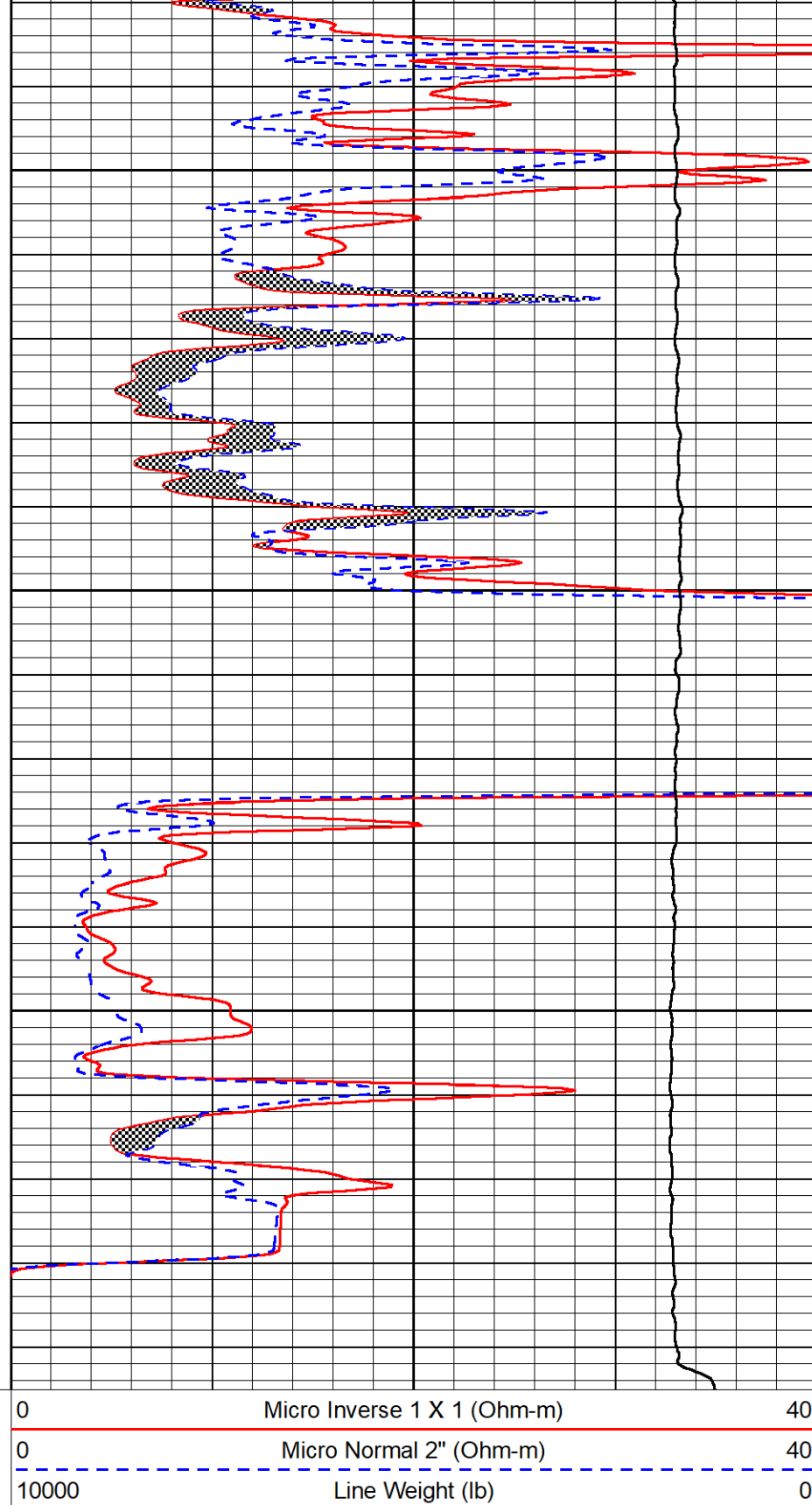




4700

4750

4800



Calibration Report

Database File griffin_stacy #4.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Sun Oct 23 17:18:30 2022

Dual Induction Calibration Report

Serial-Model:

501 HT-M&W

2.5 ft. 2.5 ft. 2.5 ft.

T. 2.5 ft. 2.5 ft. 2.5 ft.

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-35.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.305	-36.300

Microlog Calibration Report

 Serial-Model:
 Performed:

 401-PSIML
 Wed Oct 19 20:26:45 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-0.4000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	22000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	98.0000	-93.0000

Compensated Density Calibration Report

 Serial-Model:
 Source #:
 Master Calibration Performed:

 307-11-M&W
 20762B
 Sat Aug 27 10:20:16 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3600.52	4768.22	cps
Aluminum	2.670	g/cc	693.98	3106.20	cps
Spine Angle = 75.41			Density/Spine Ratio = 0.538		
	Size		Reading		
Small Ring	6.00	in	1.16		
Large Ring	18.00	in	1.01		

Compensated Neutron Calibration Report

 Serial Number:
 Tool Model:

 207-MW
 M&W

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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	

3)	Short Space Long Space	cps cps	pu
POST-SURVEY VERIFICATION			
	Detector	Readings	Measured Target
1)	Short Space Long Space	cps cps	pu pu
2)	Short Space Long Space	cps cps	pu pu
3)	Short Space Long Space	cps cps	pu pu
Gamma Ray Calibration Report			
Serial Number:		106	
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

 MIDWEST WIRELINE	Company	Griffin Management LLC
	Well	Stacy #4
	Field	Moffett
	County	Barber
	State	Kansas