



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Griffin Management LLC		Company Griffin Management LLC	
Well	Breanna #3	Well	Breanna #3
Field	Moffett North	Field	Moffett North
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24416-00-00		Other Services	
1456 FNL & 2115 FEL		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1998
Log Measured From	Kelly Bushing	K.B.	2003
Drilling Measured From	Kelly Bushing	D.F.	1998
SEC 5 TWP 30S RGE 15W			
Date	5/7/2022		
Run Number	One		
Depth Driller	4900		
Depth Logger	4907		
Bottom Logged Interval	4906		
Top Log Interval	2800		
Casing Driller	8.625 @ 263		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4200		
Density / Viscosity	9.5 56		
pH / Fluid Loss	11.0 6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.45 @ 75		
Rmt @ Meas. Temp	.34 @ 75		
Rmc @ Meas. Temp	.61 @ 75		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.27 @ 125		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	125		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Eli Felts	Charles Griffin	

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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.

Croft Kansas
South to 110, 1 East, South 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: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts
Secondary Witness: Charles Griffin
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_breanna_3.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 605	degF 60	Off	ft 4907

Variable Description

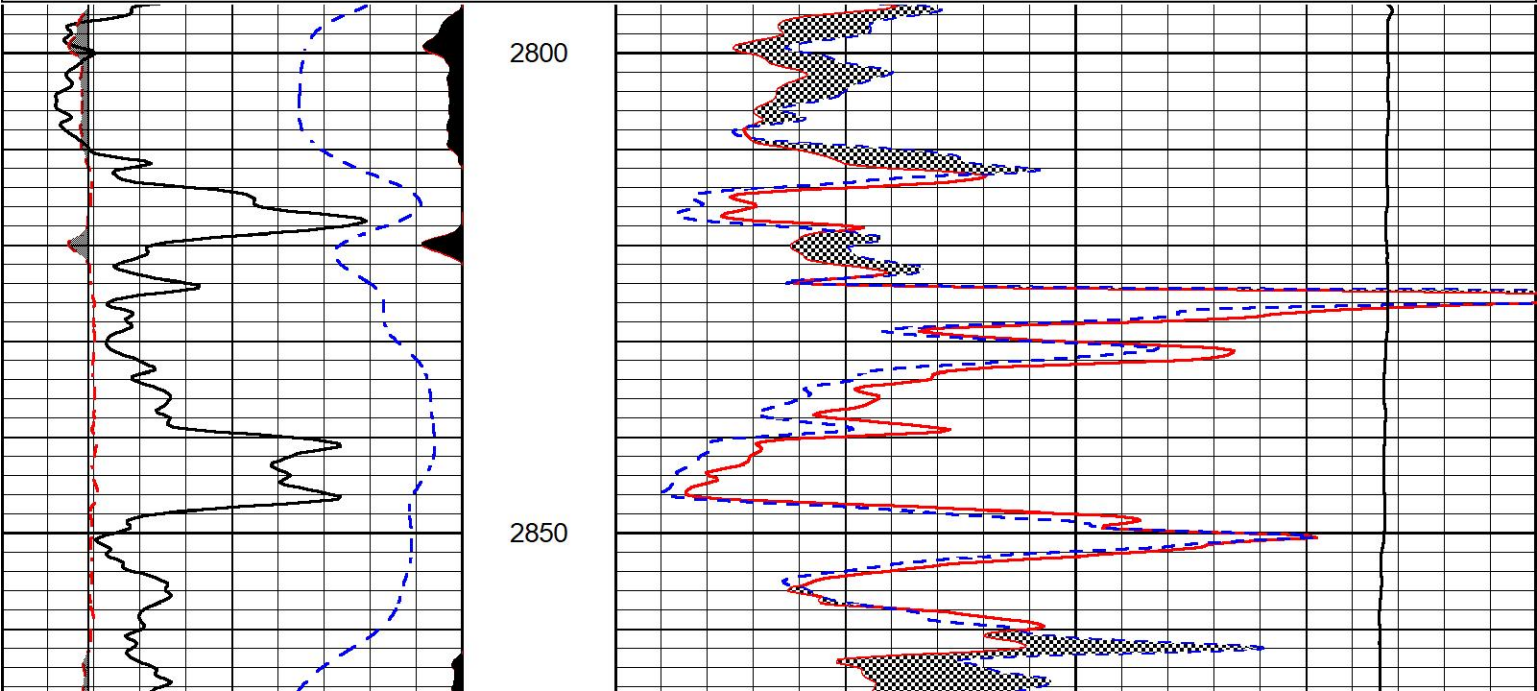
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

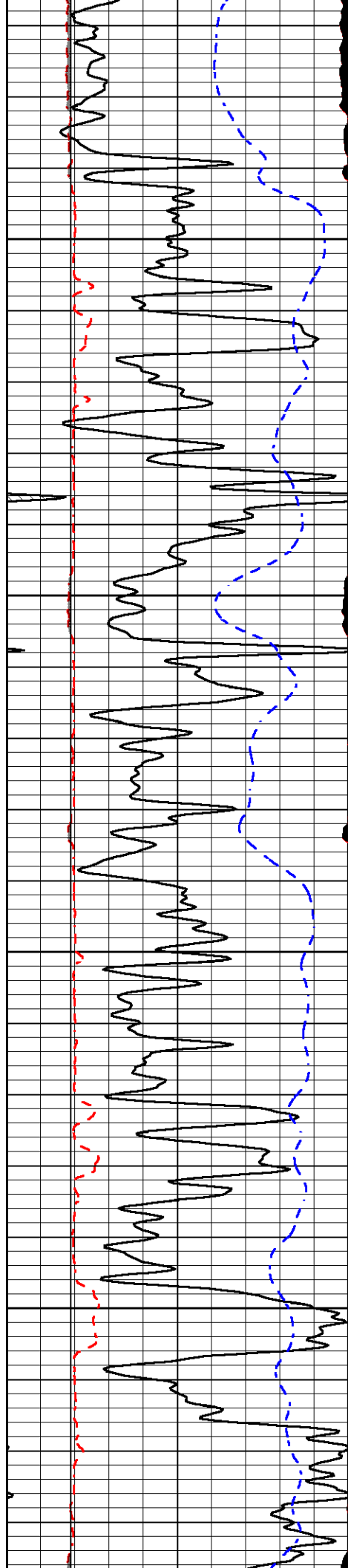
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17		ML-PSI STKBL ML (402)	7.58	4.00	65.00
SSD	27.68					
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					

CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					
Dataset: griffin_breanna_3.db: field/well/stackml/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in						

 DETAIL SECTION MAIN PASS		
Database File griffin_breanna_3.db Dataset Pathname stackml/pass4.1 Presentation Format _micro Dataset Creation Sat May 07 03:27:34 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



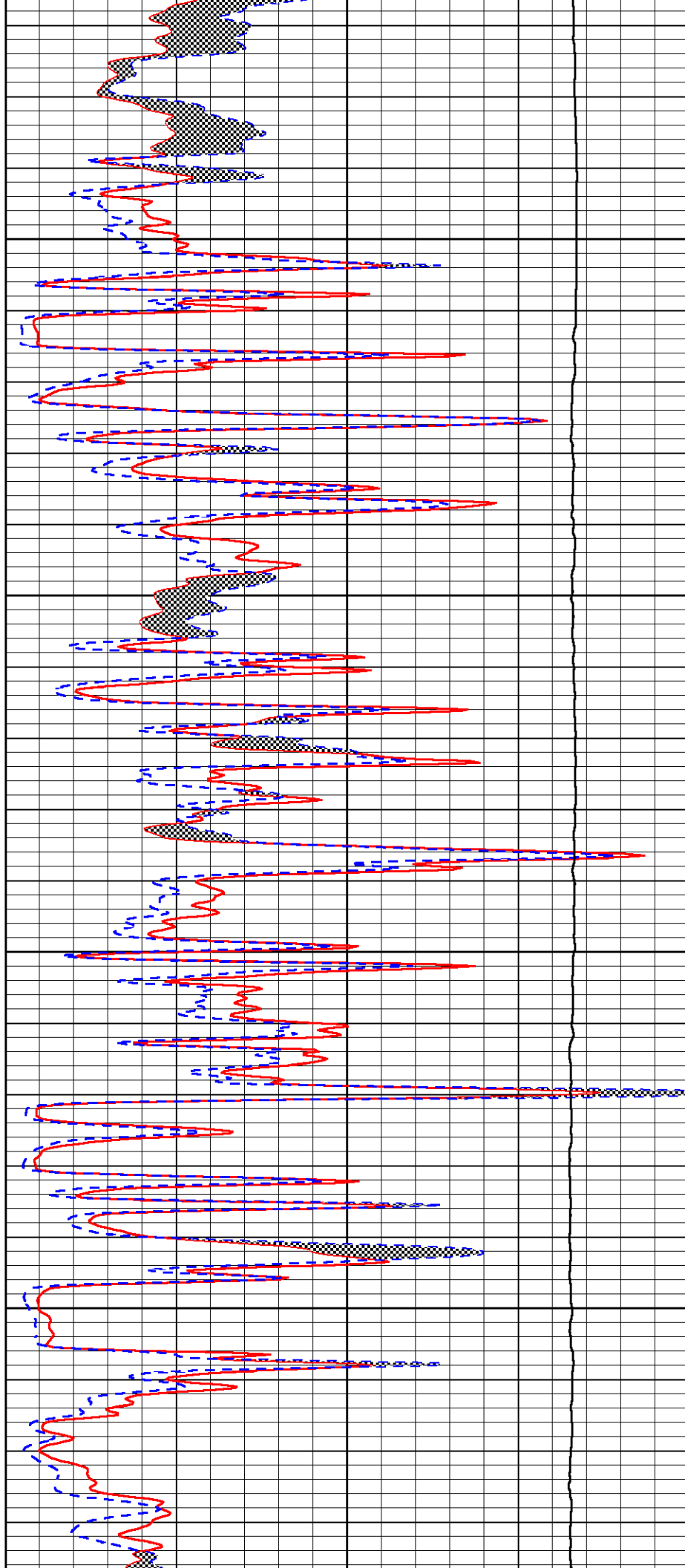


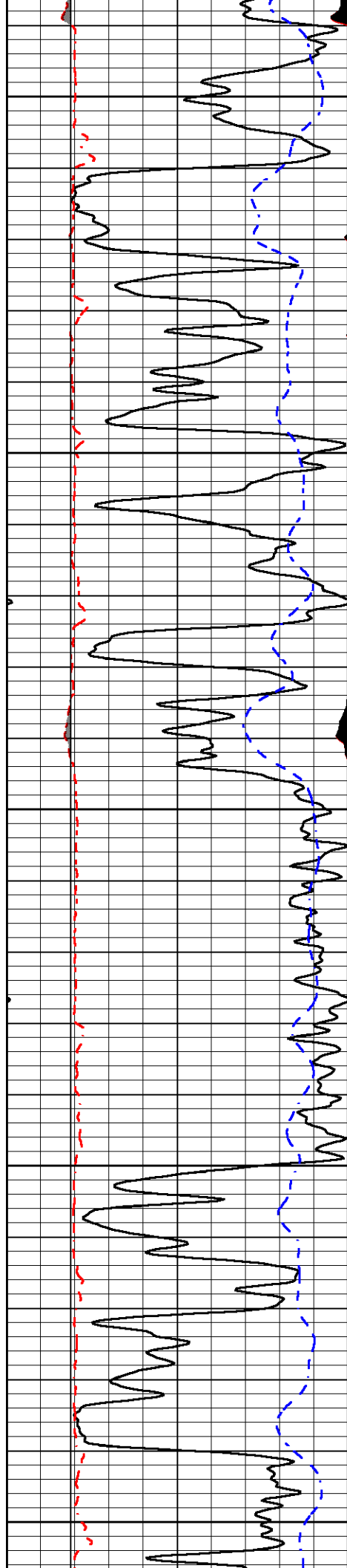
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2950

3000

3050





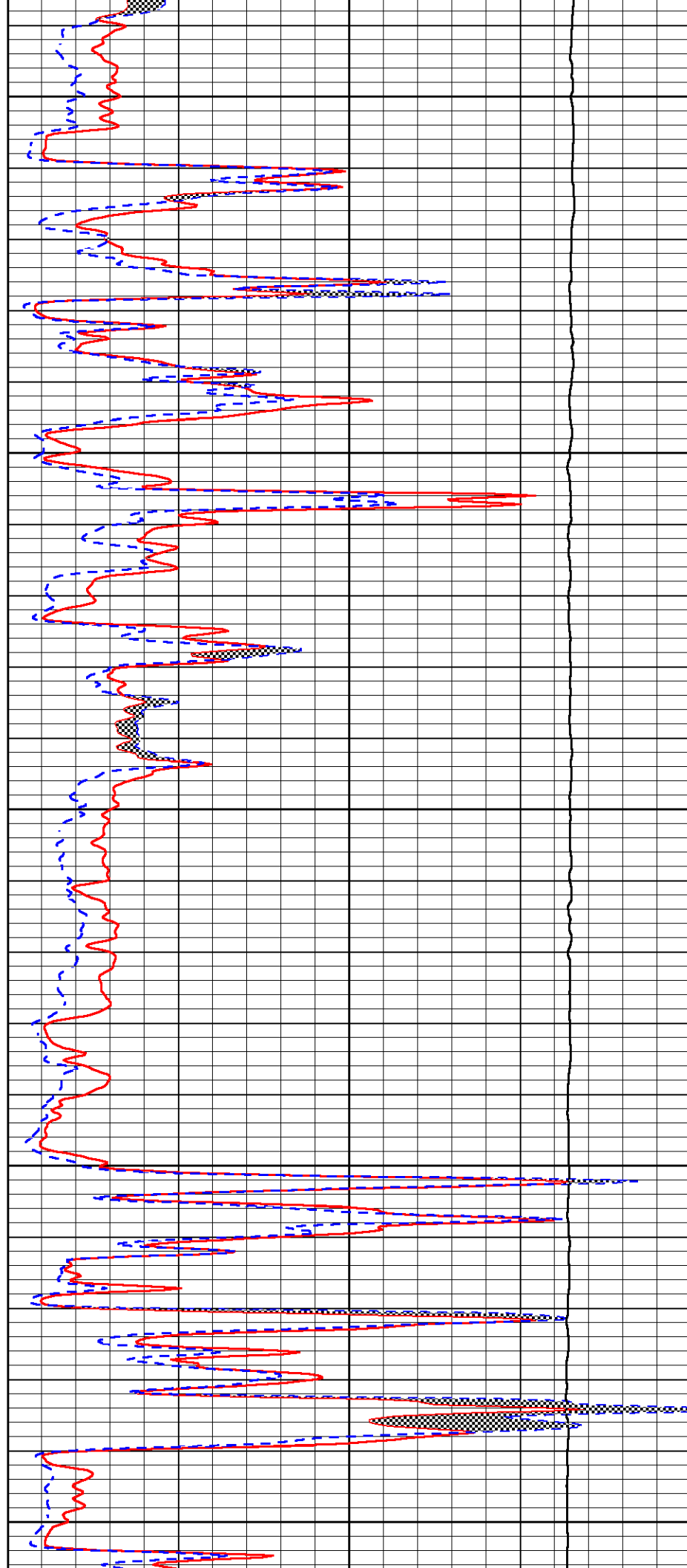
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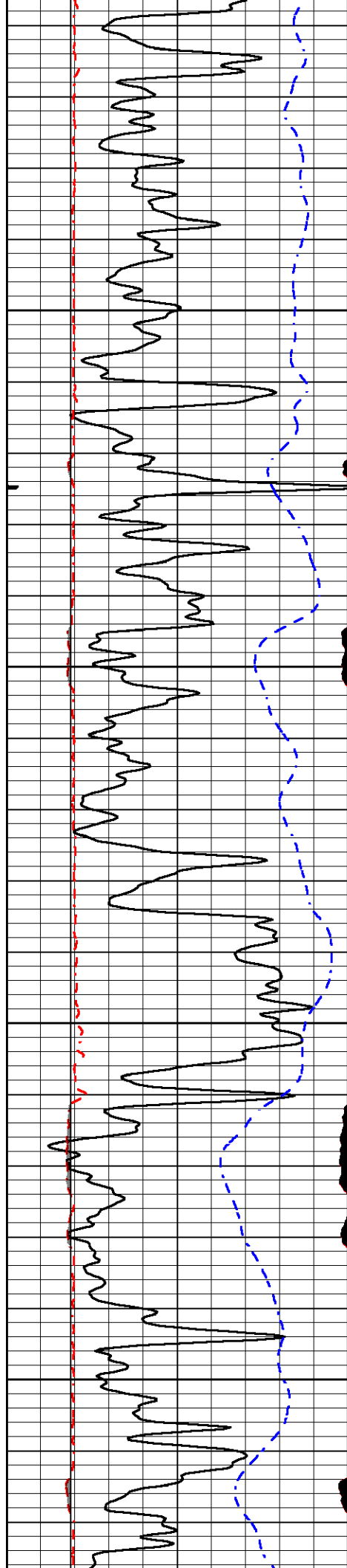
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3200

3250

3300



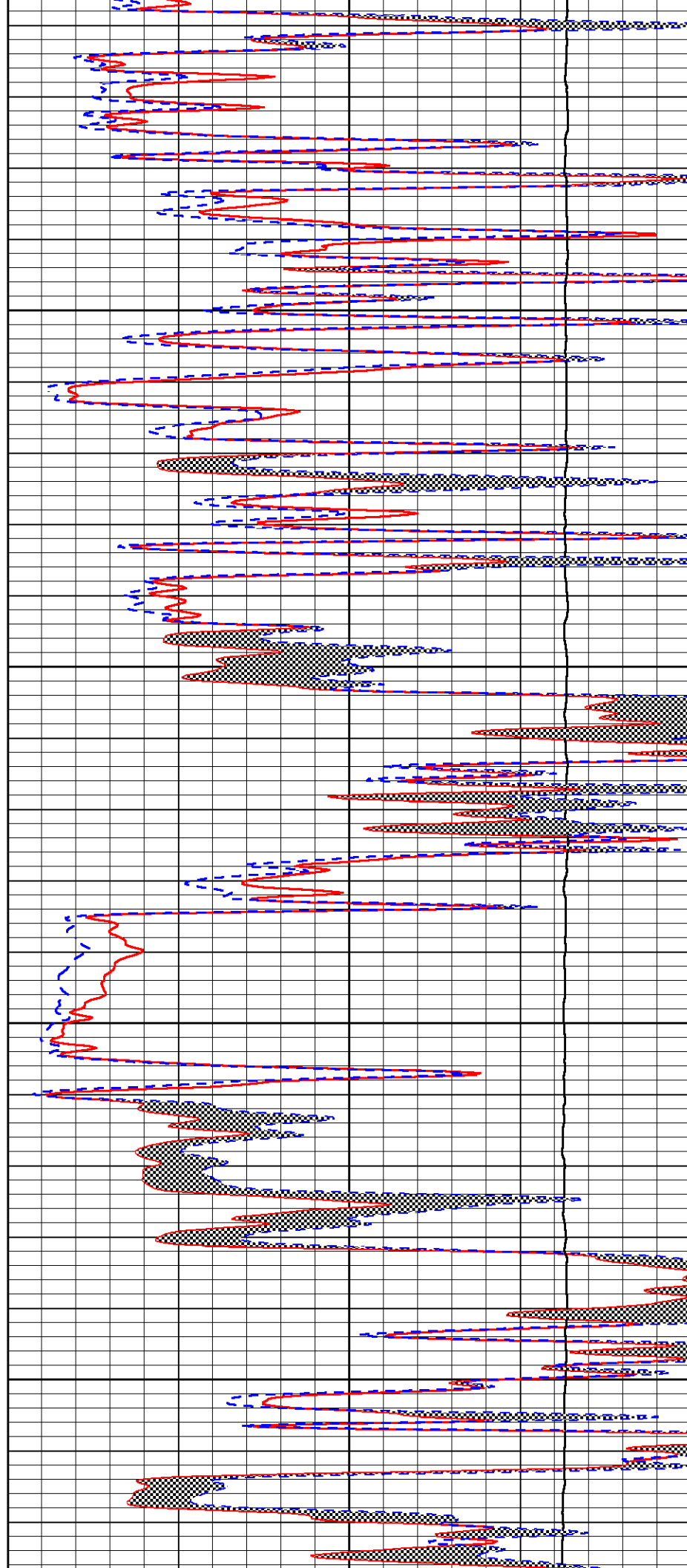


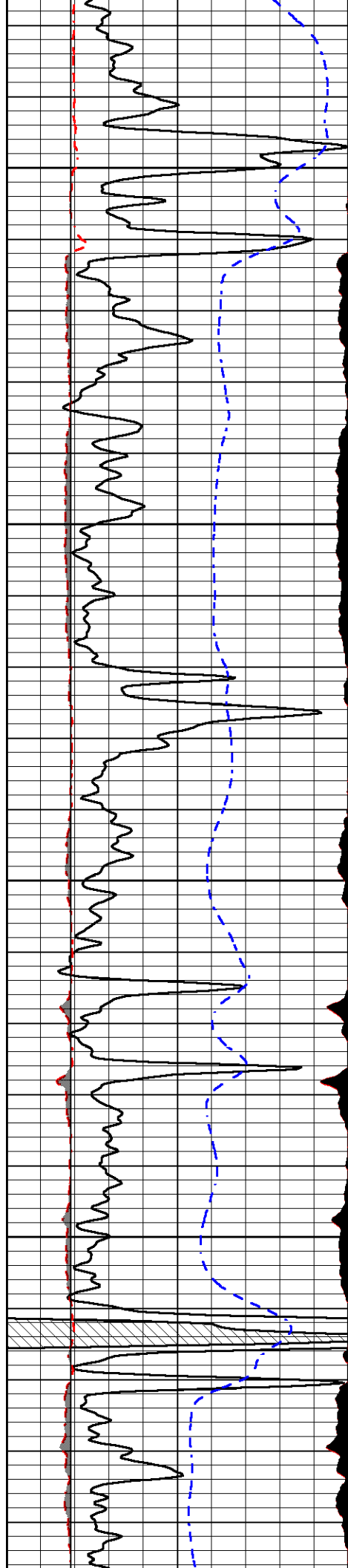
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3450

3500



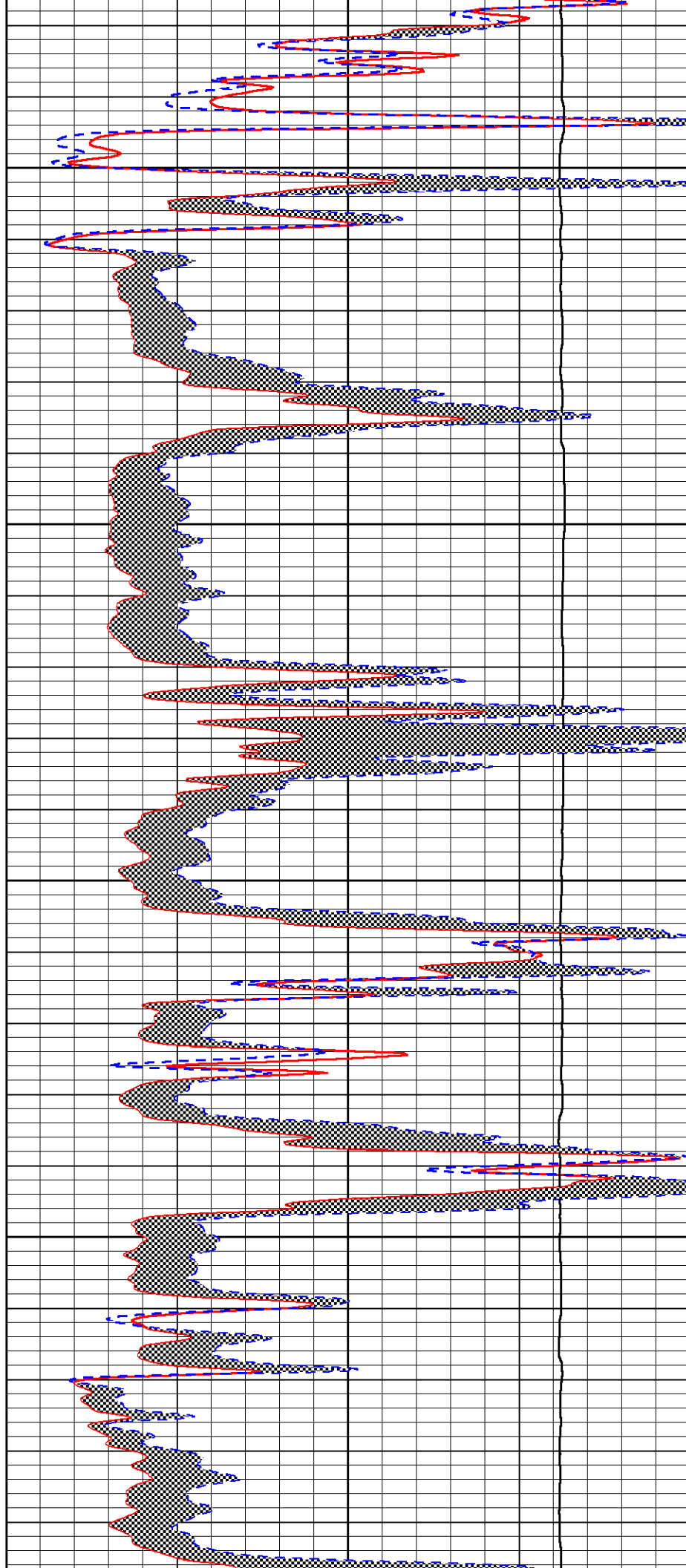


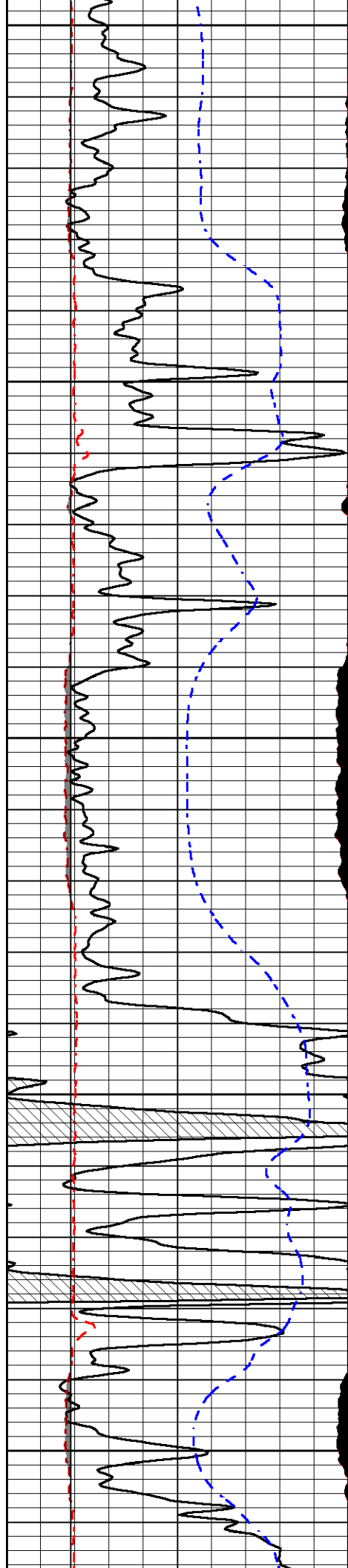
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3700





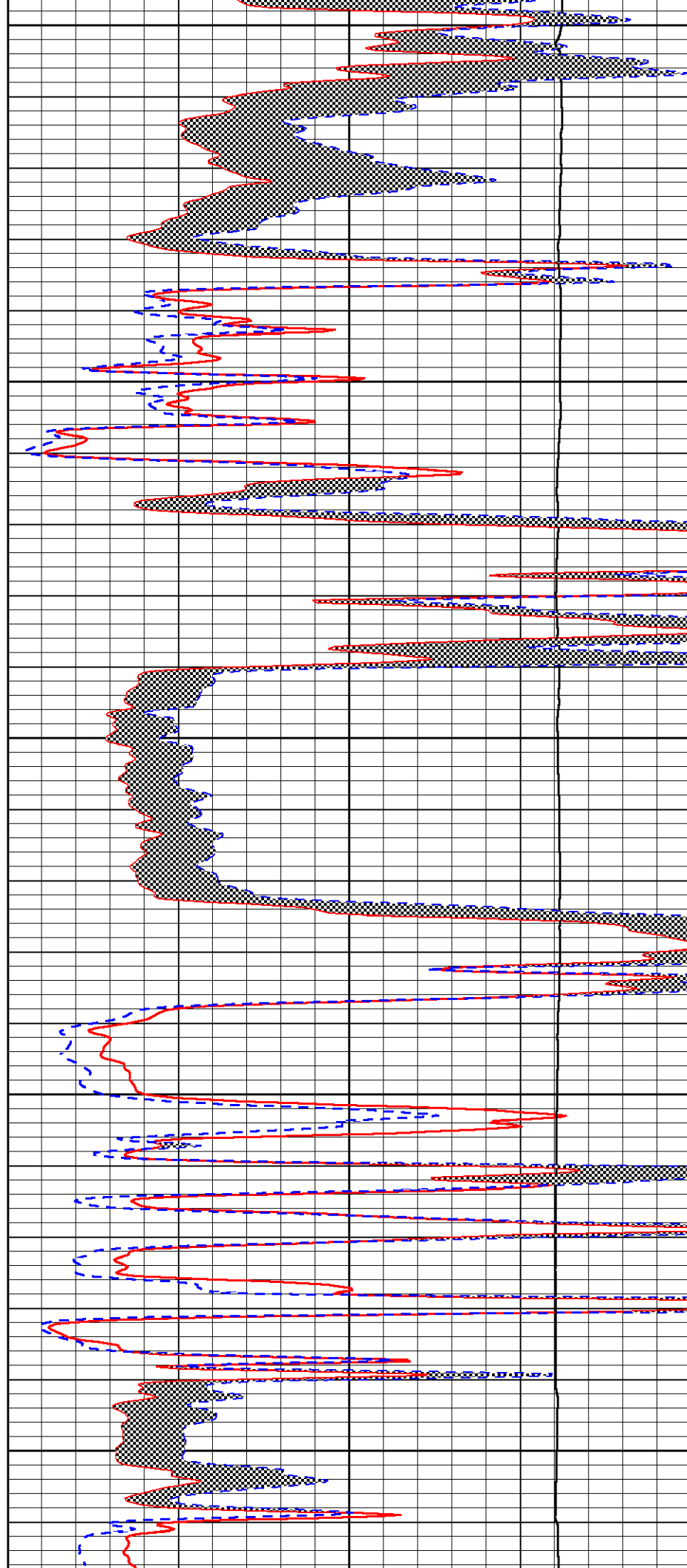
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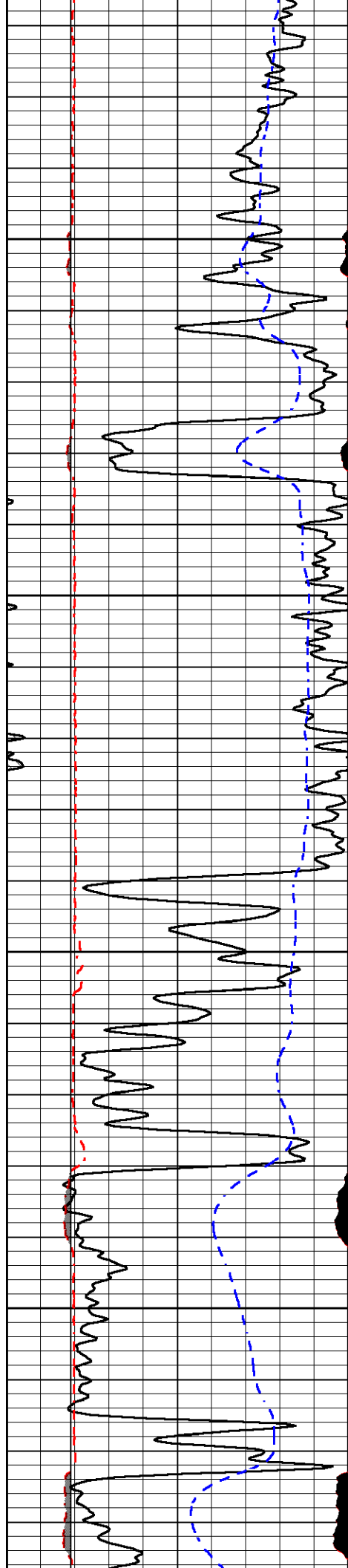
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3900

3950



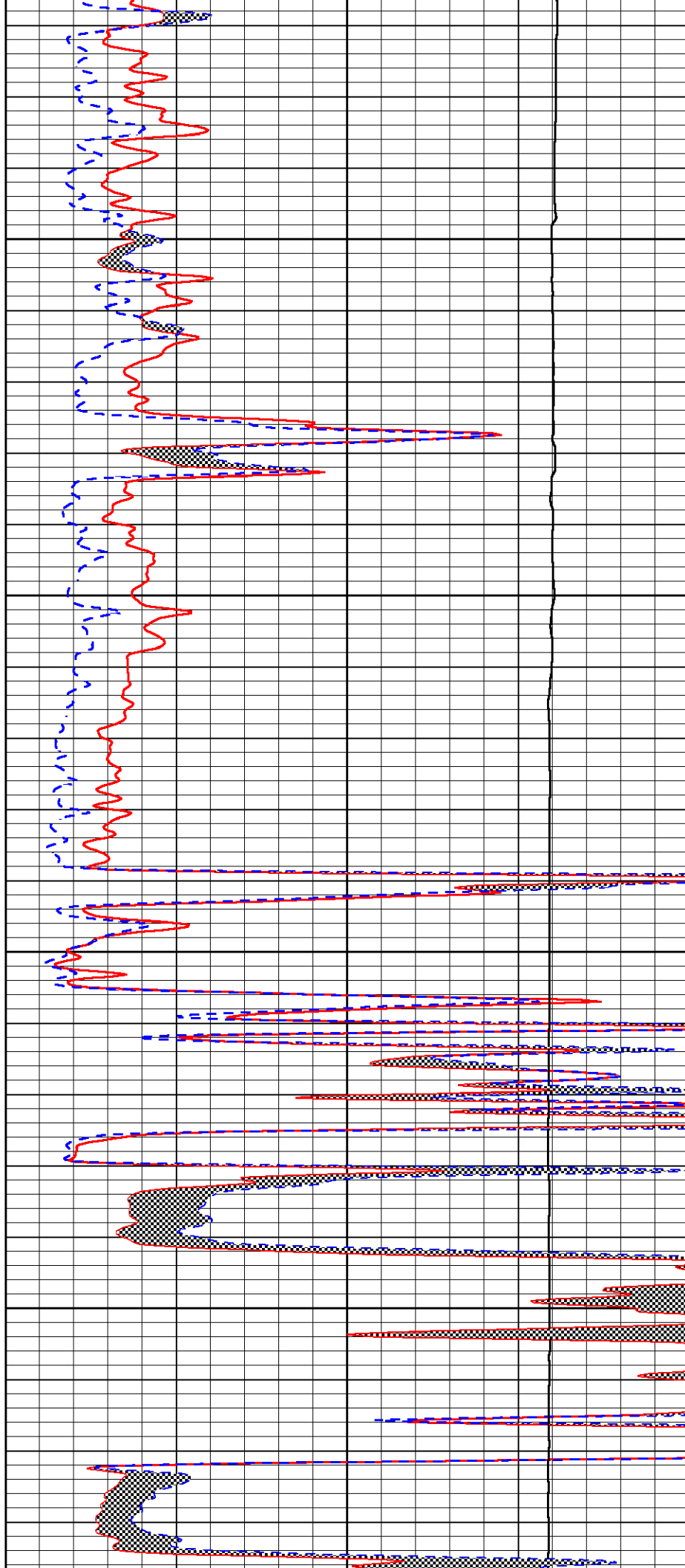


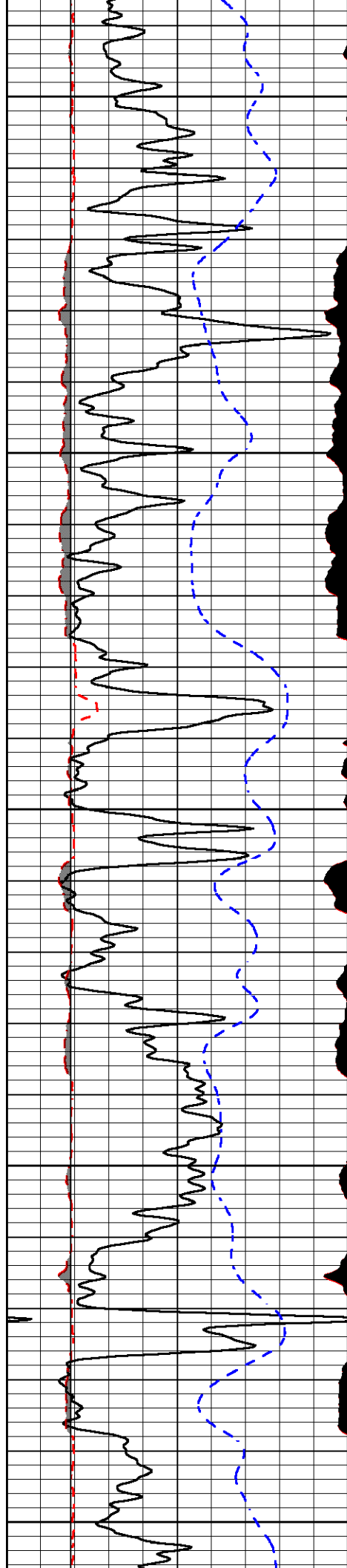
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4050

4100

4150





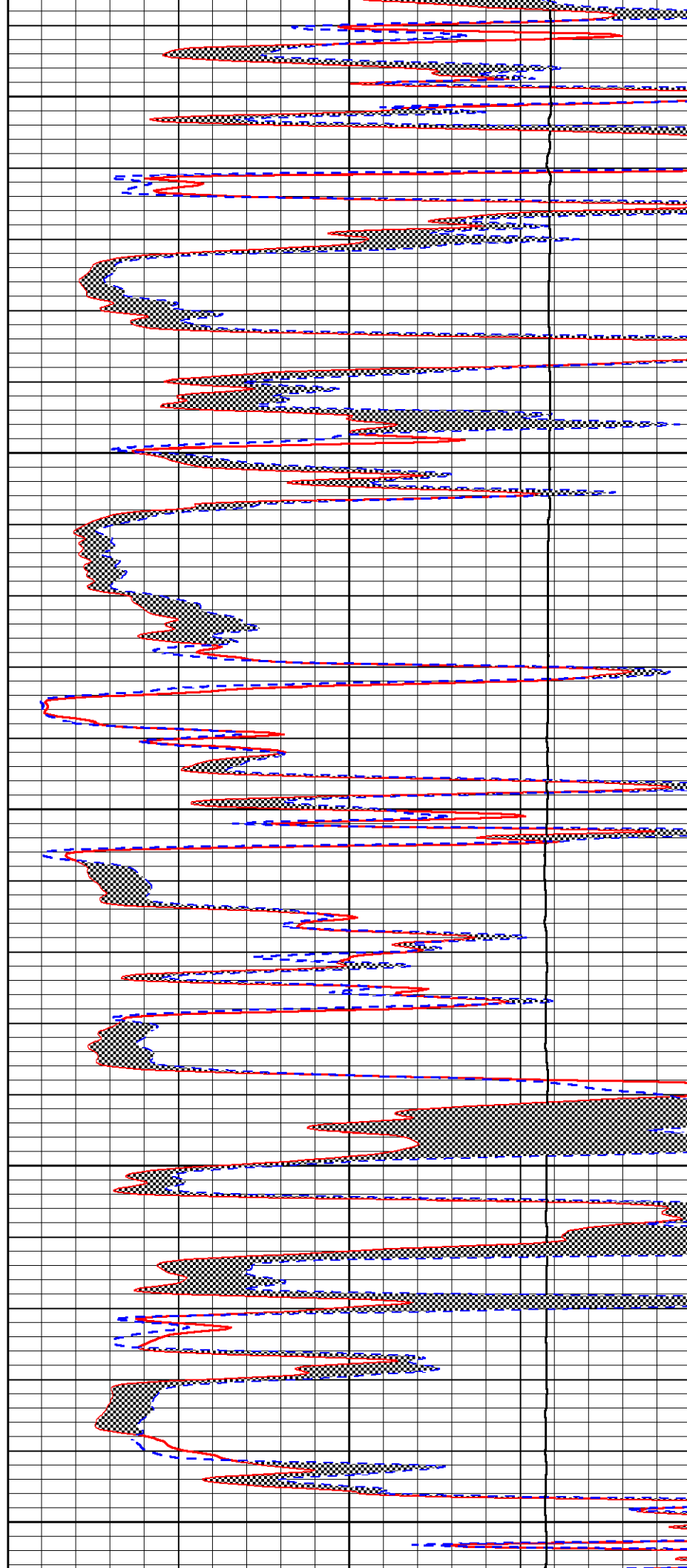
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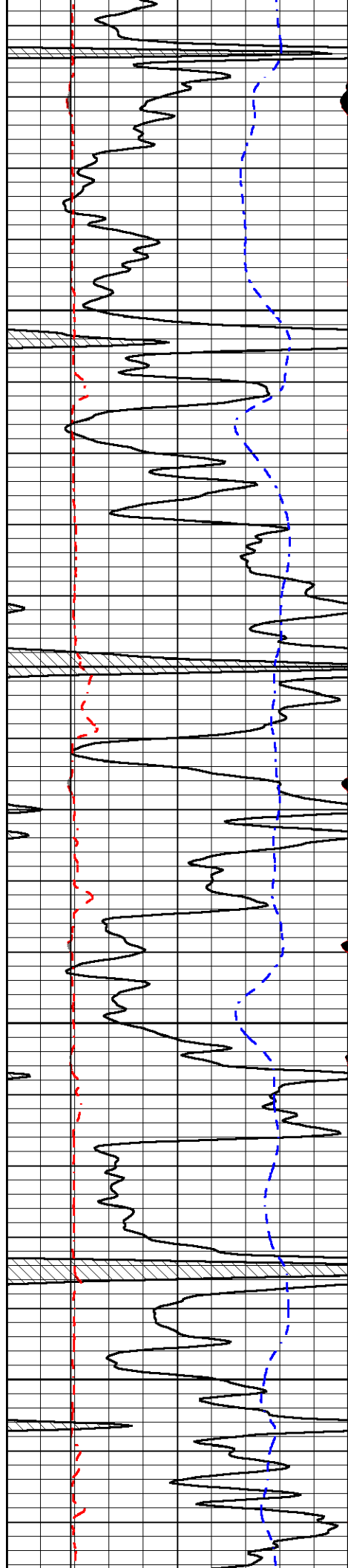
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4400



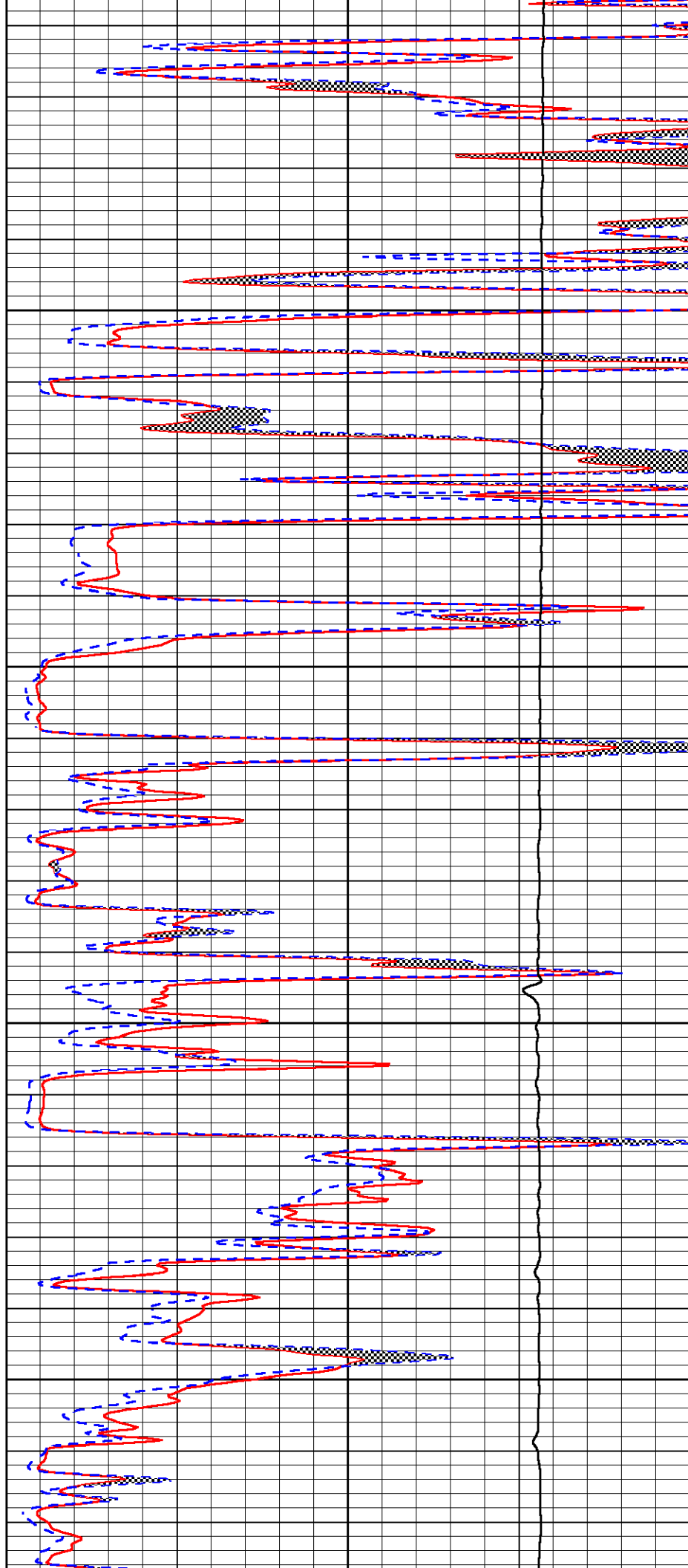


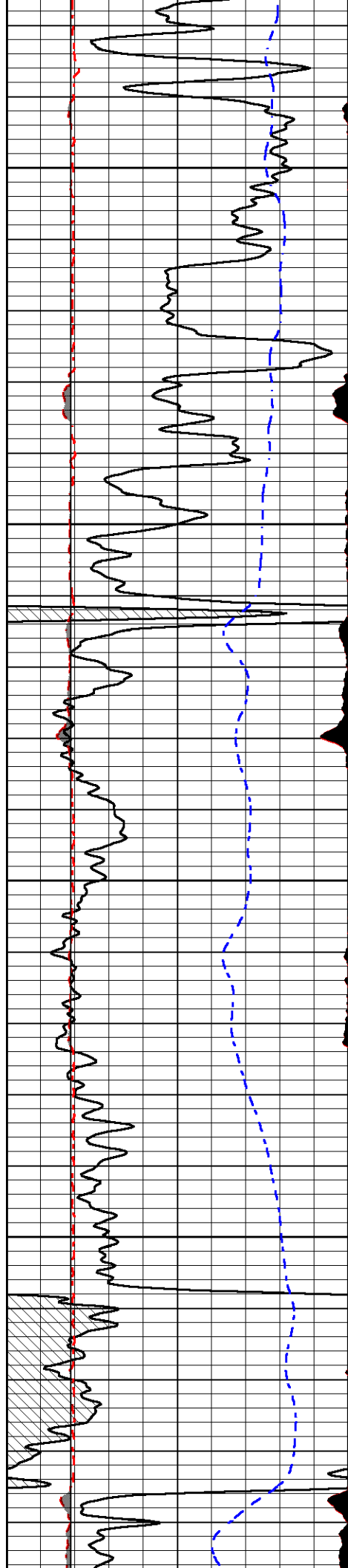
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4600



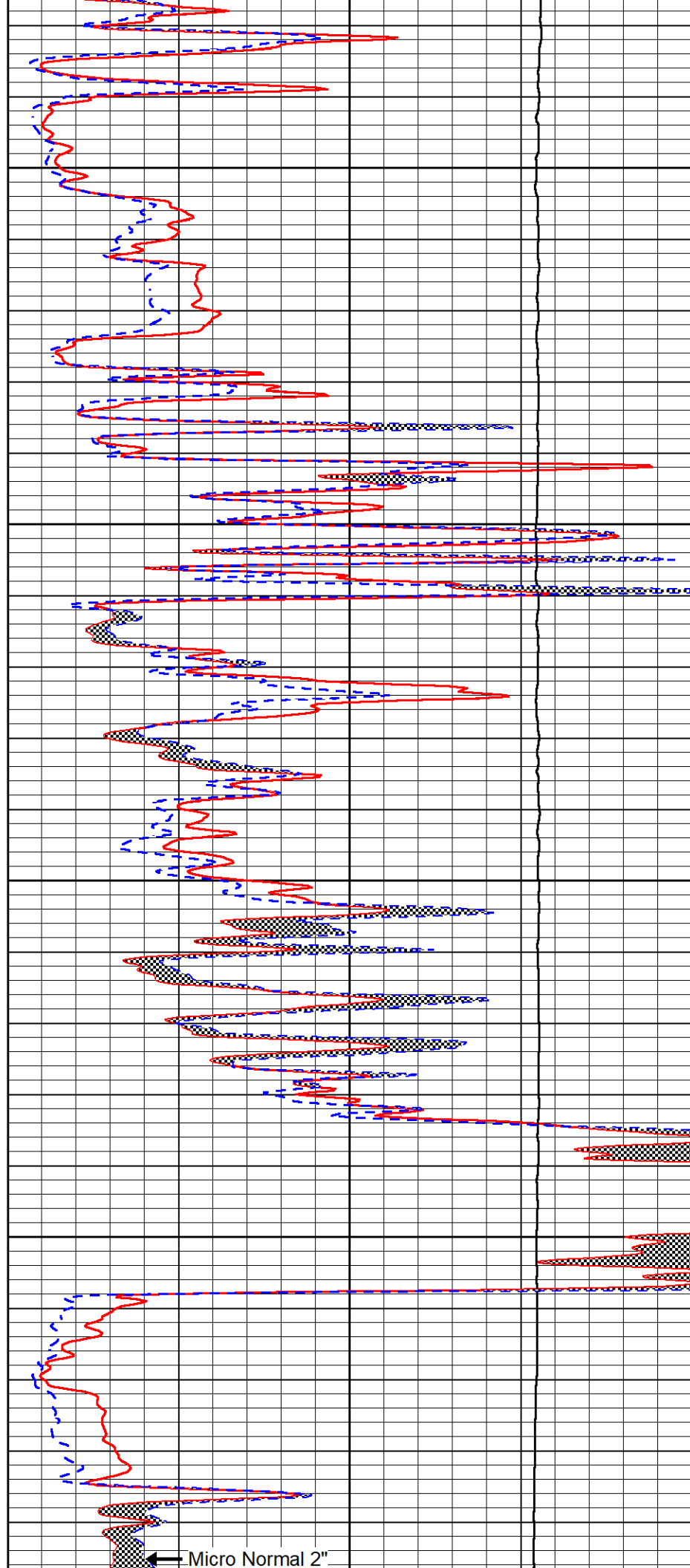


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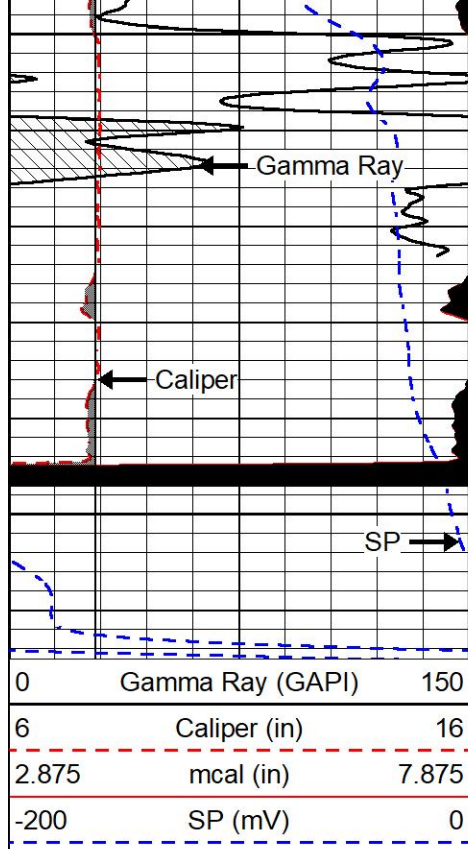
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4750

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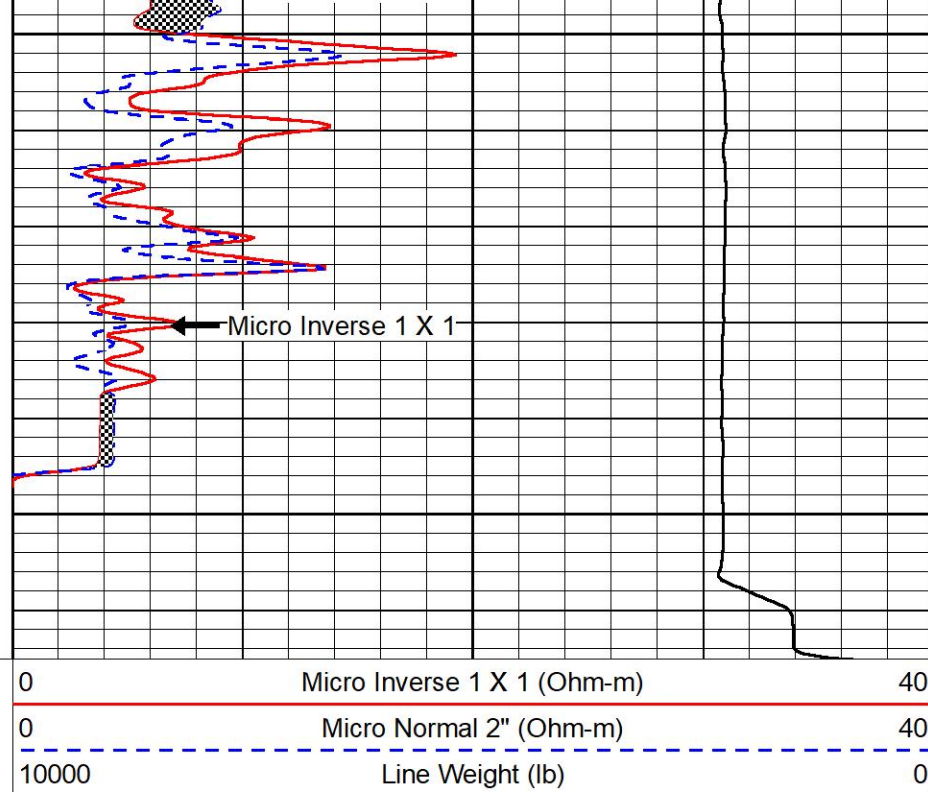


← Micro Normal 2"



4850

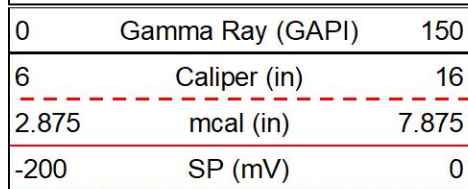
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REPEAT SECTION

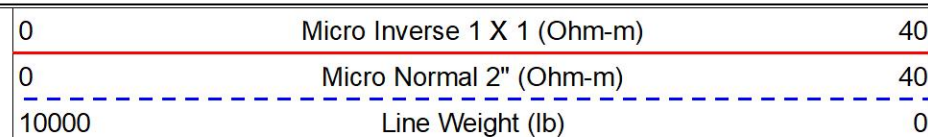
REPEAT PASS

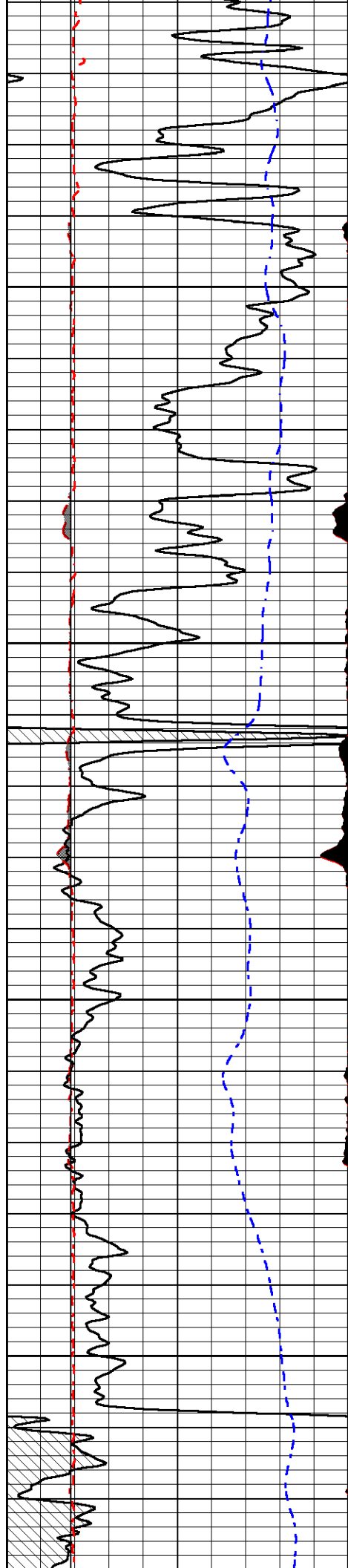
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 Dataset Pathname stackml/pass2.1
 Presentation Format _micro
 Dataset Creation Sat May 07 03:04:45 2022
 Charted by Depth in Feet scaled 1:240



4550

4600



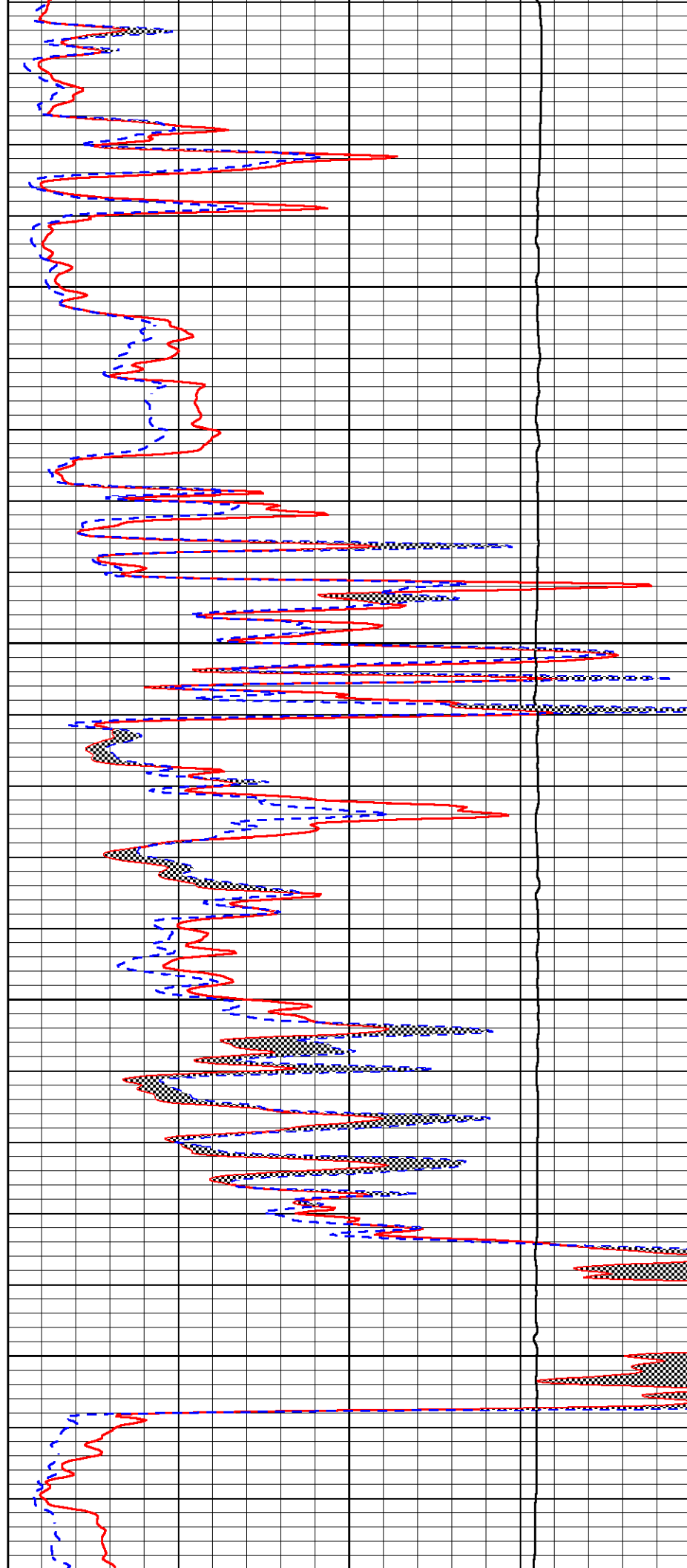


4650

4700

4750

4800



Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.04		

Compensated Neutron Calibration Report

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 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:	103
Tool Model:	M&W
Performed:	Fri Dec 3 12:13:24 2021
Calibrator Value:	500.0 GAPI
Background Reading:	28.0 cps
Calibrator Reading:	986.0 cps
Sensitivity:	0.5700 GAPI/cps



Company	Griffin Management LLC
Well	Breanna #3
Field	Moffett North
County	Barber
State	Kansas