



MIDWEST WIRELINE

DUAL INDUCTION
LOG

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	
SEC 5 TWP 30S RGE 15W		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	1998
Log Measured From	Kelly Bushing	K.B.	2003
Drilling Measured From	Kelly Bushing	D.F.	1998
Date		5/7/2022	
Run Number	One		
Depth Driller	4900		
Depth Logger	4907		
Bottom Logged Interval	4906		
Top Log Interval	250		
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	This Log Record Was Witnessed By
Engineer: J. Henrickson	Primary Witness: Eli Felts
Operator:	Secondary Witness: Charles Griffin
Operator:	Secondary Witness:
Operator:	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

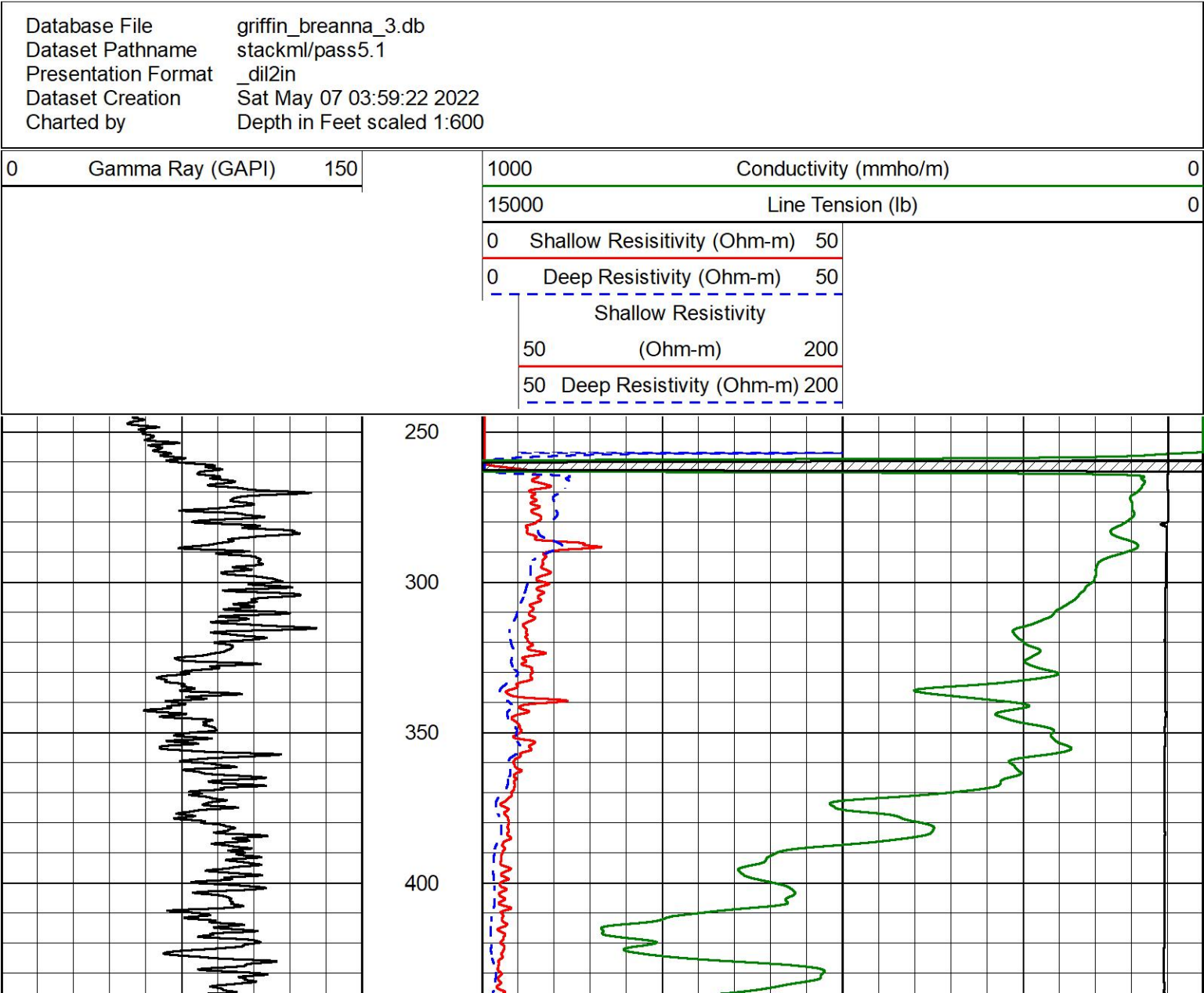
Variable Description

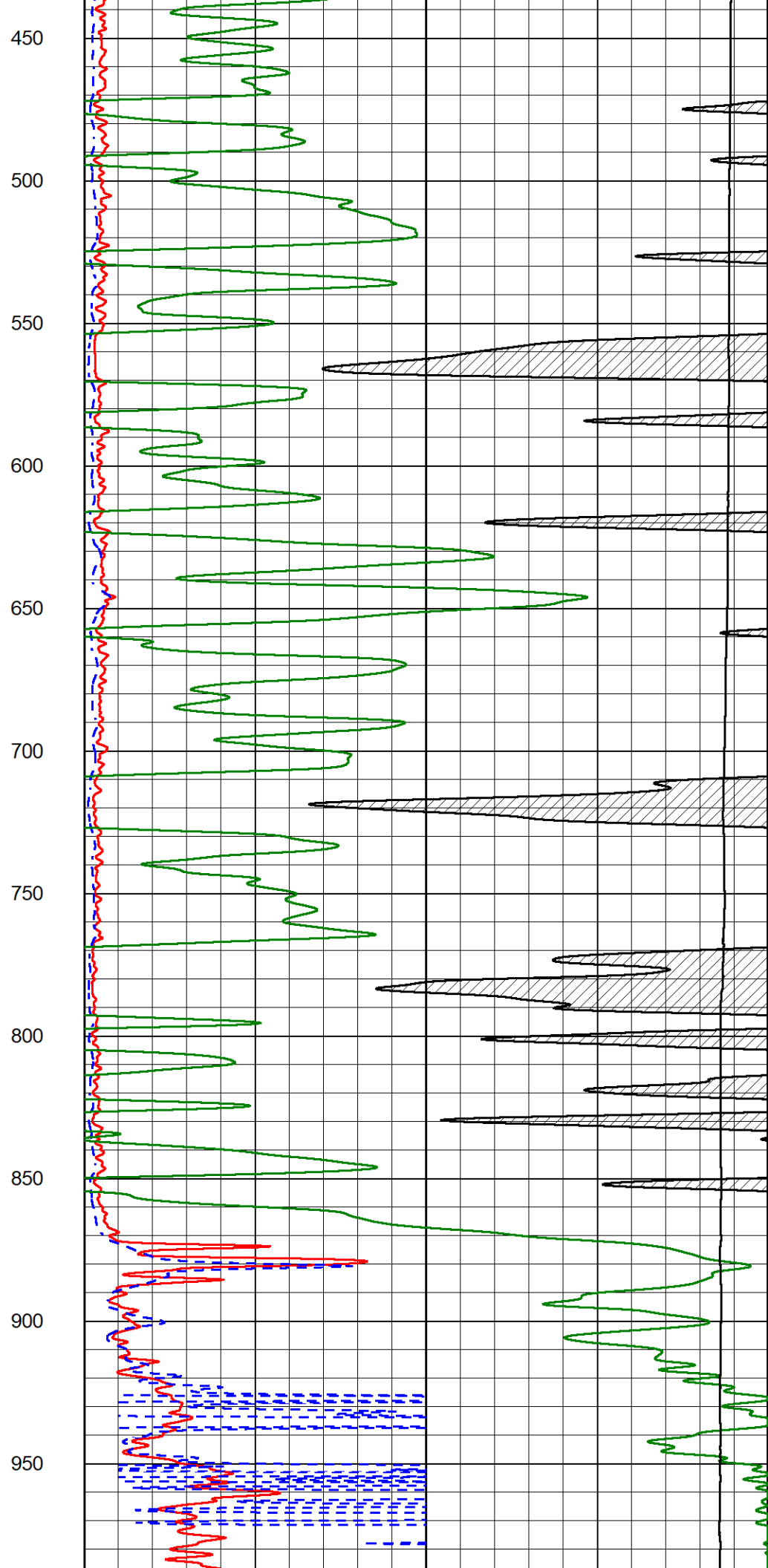
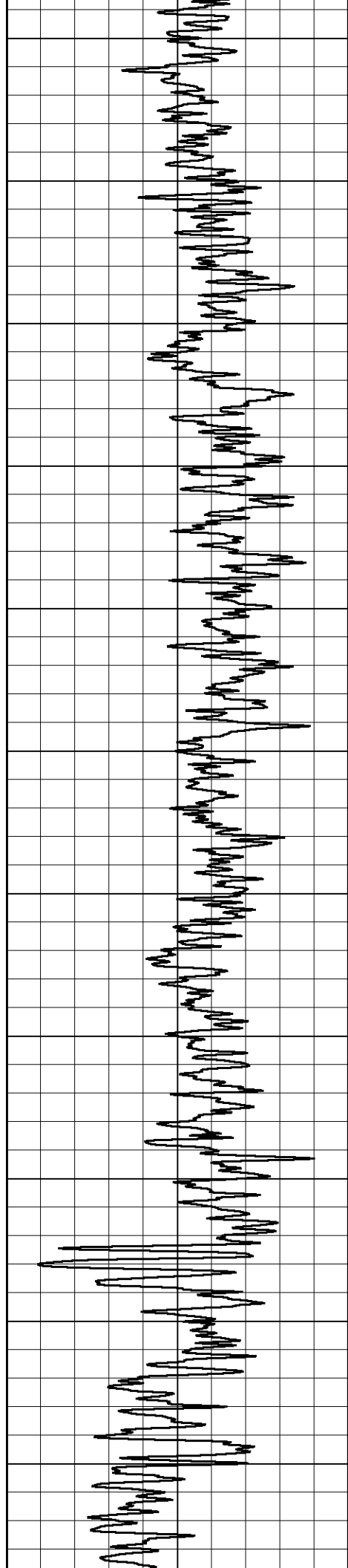
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

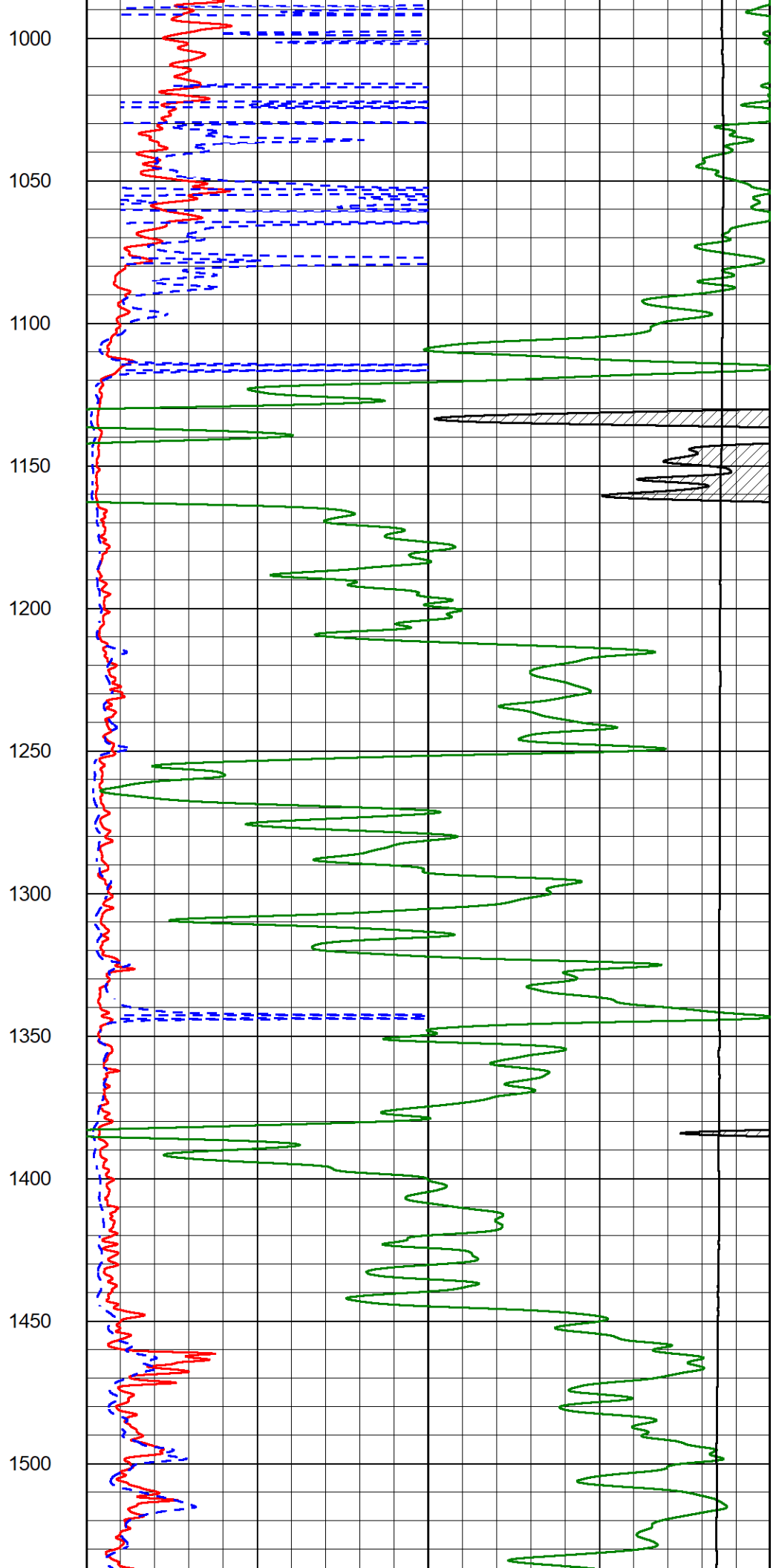
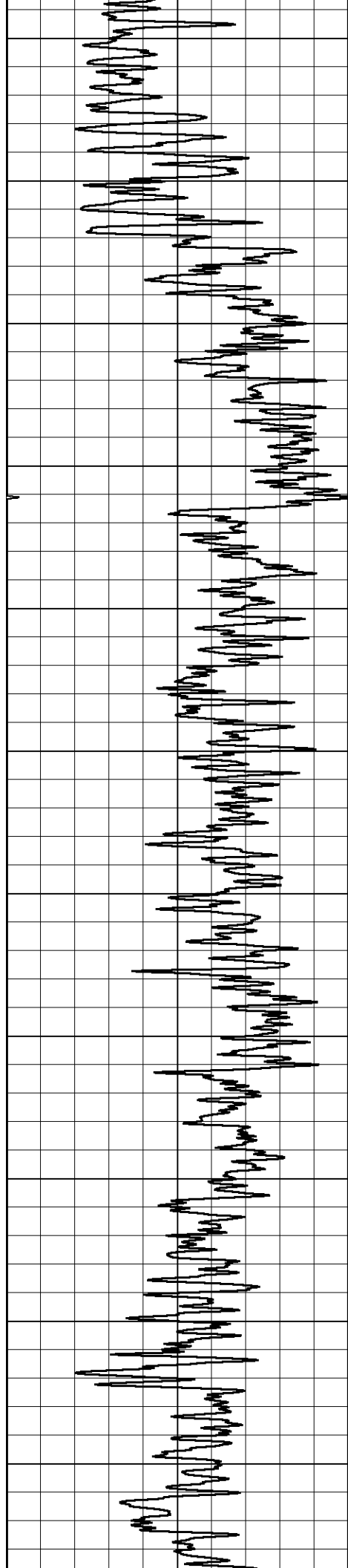
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

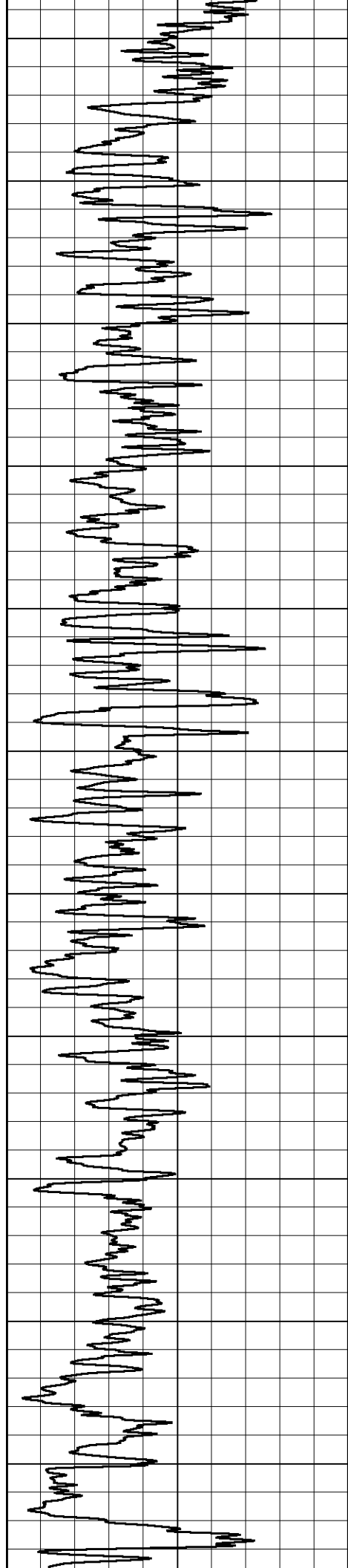
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
LSD	28.18		CDL-M&W (303-03)	8.50	4.00	250.00
	28.17					
	27.68					
ML-PSI STKBL ML (402)	19.58		ML-PSI STKBL ML (402)	7.58	4.00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









1550

1600

1650

1700

1750

1800

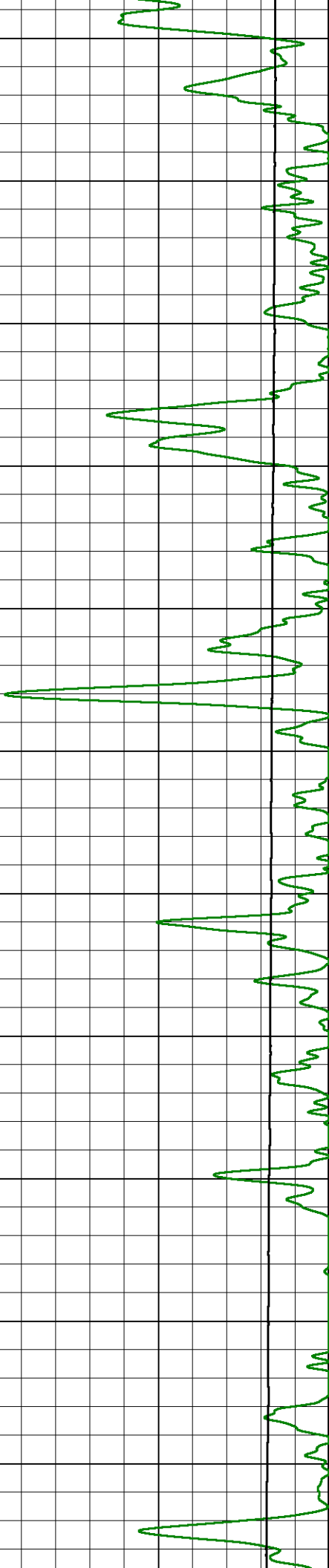
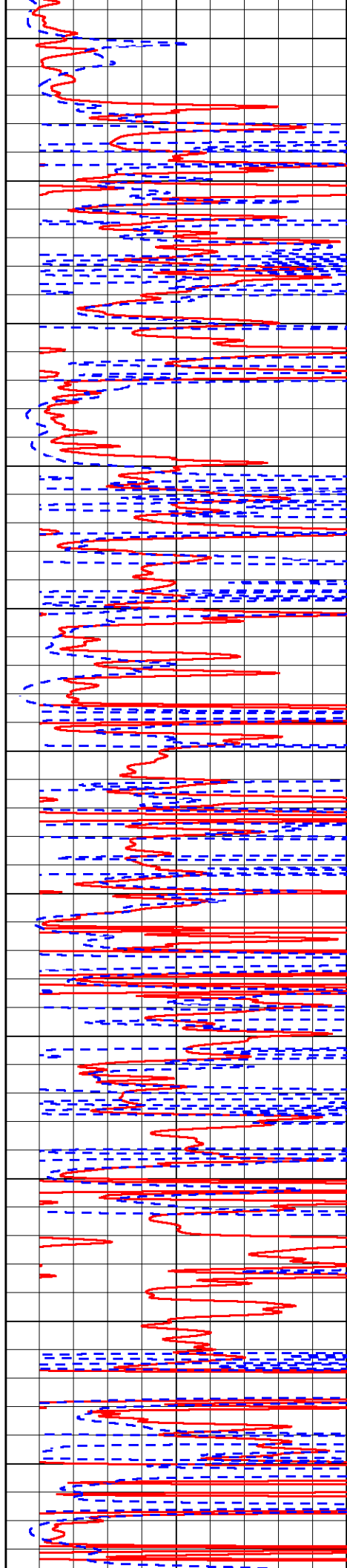
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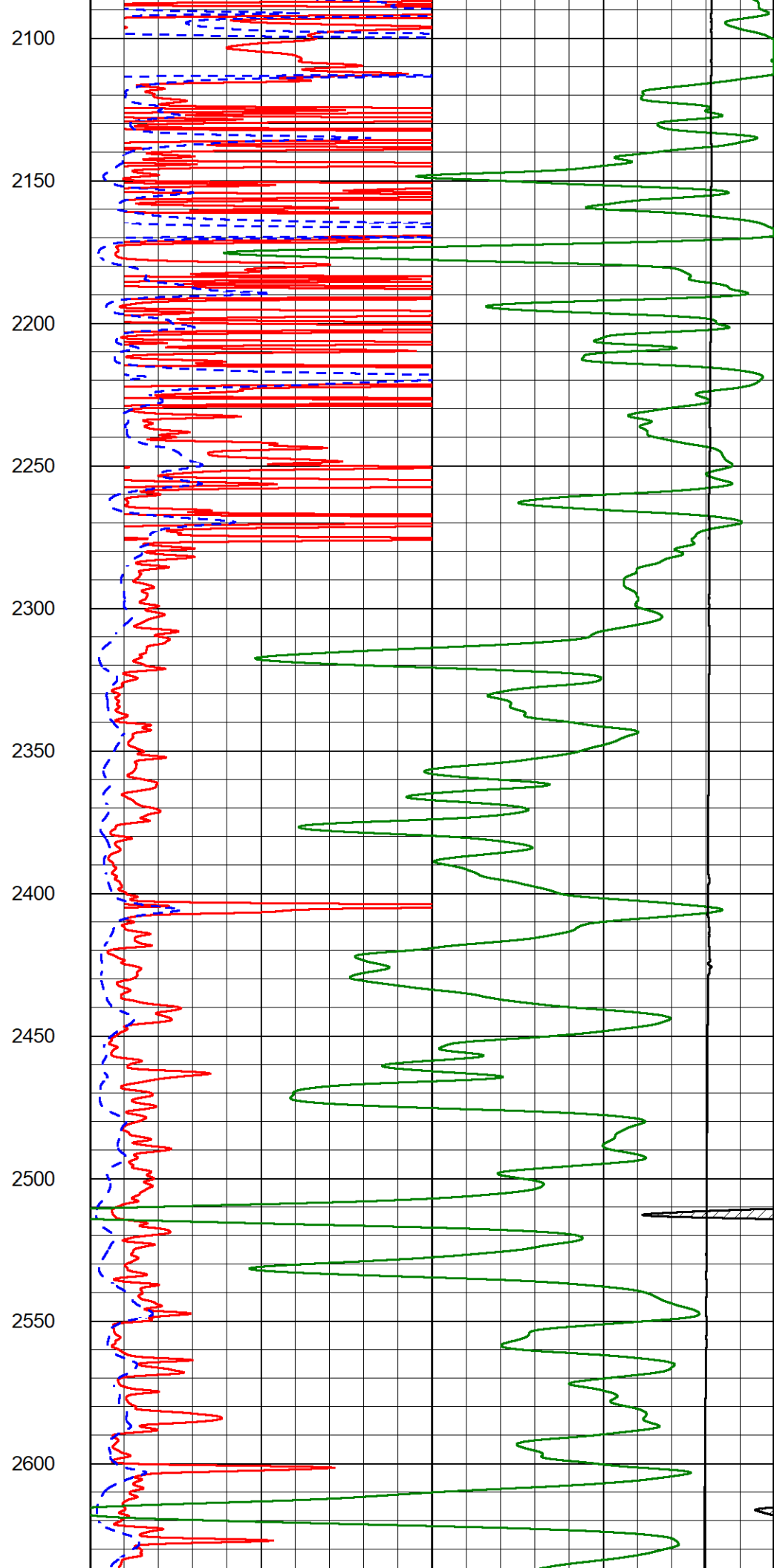
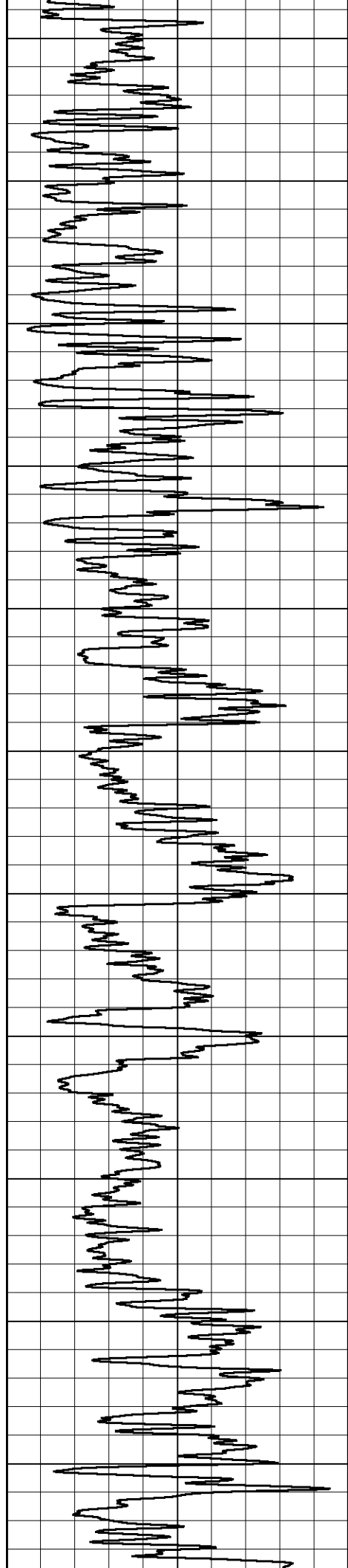
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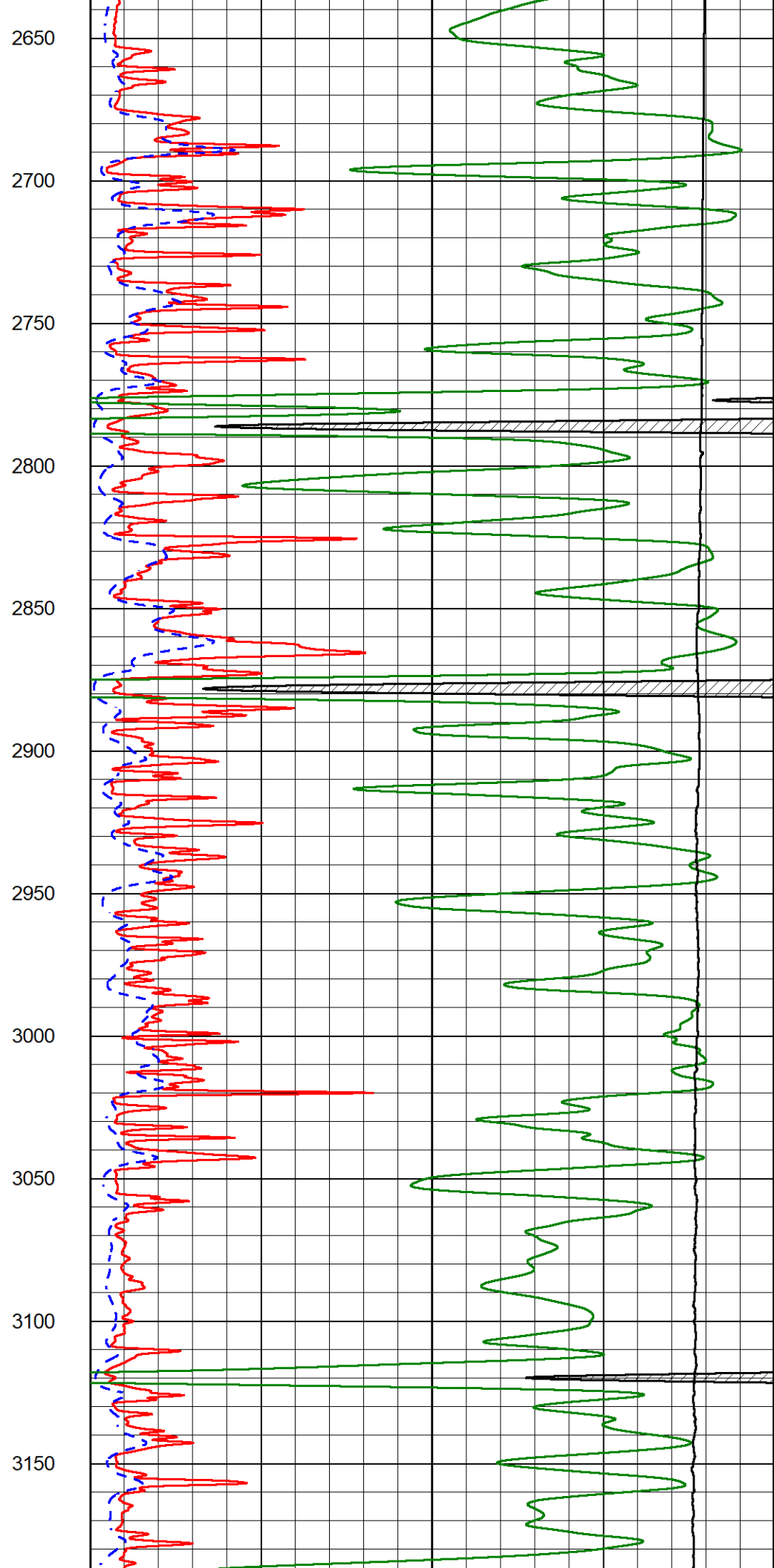
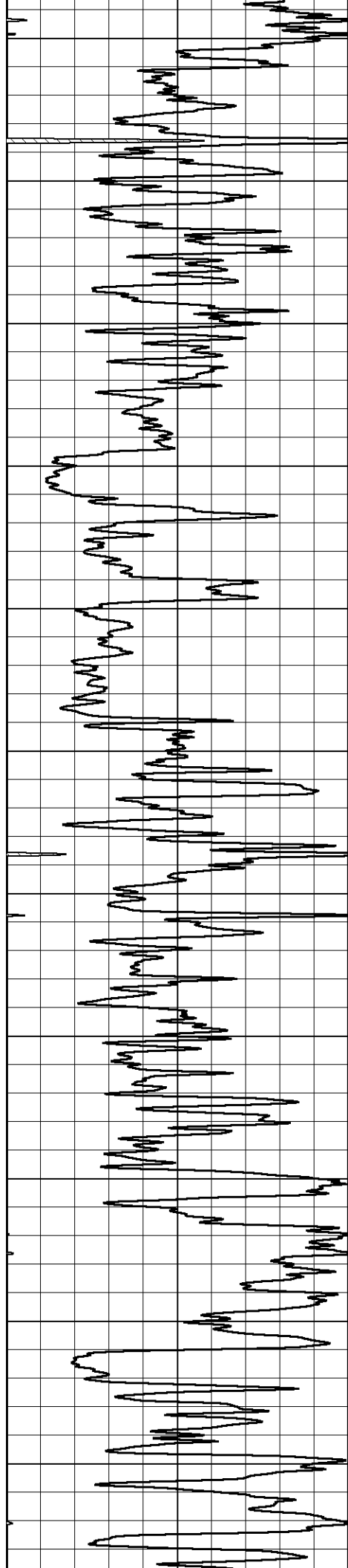
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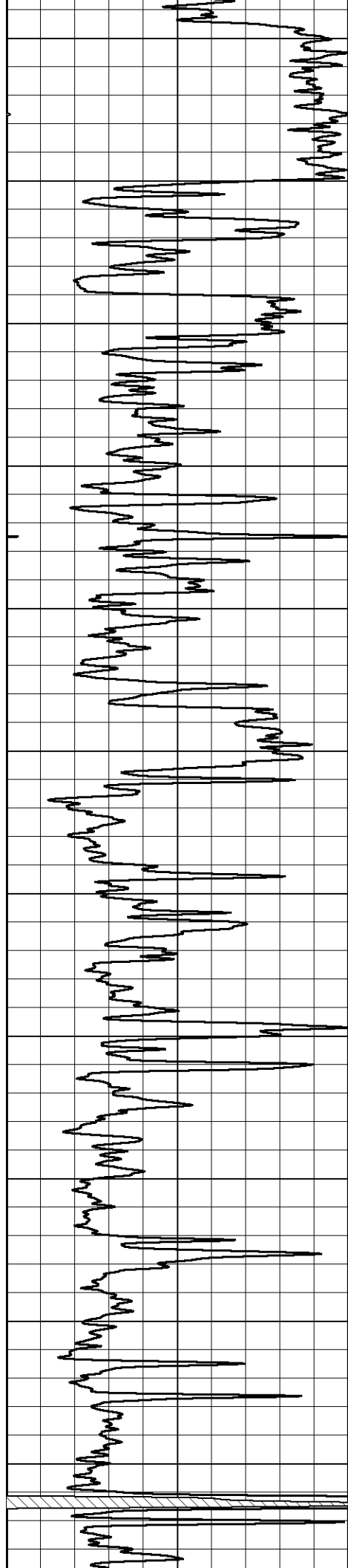
2000

2050









3200

3250

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3350

3400

3450

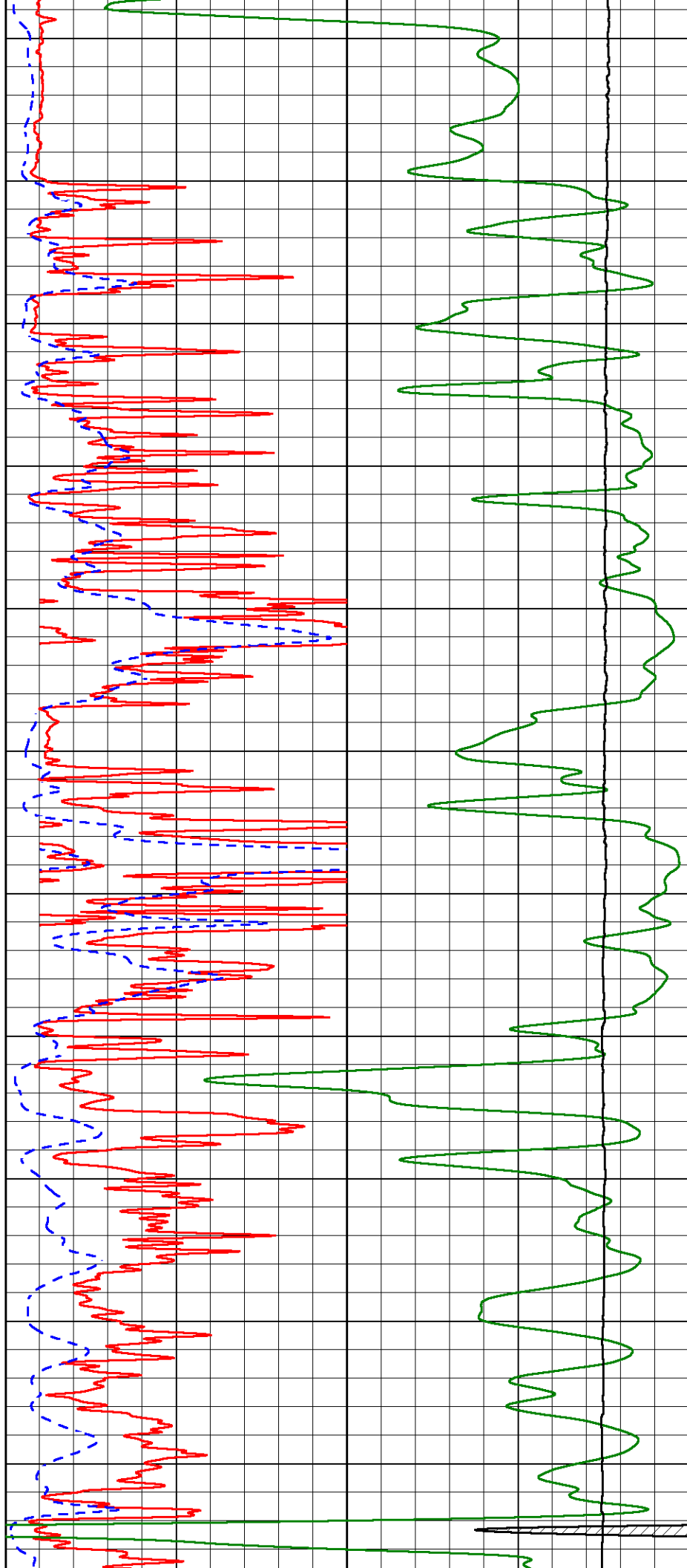
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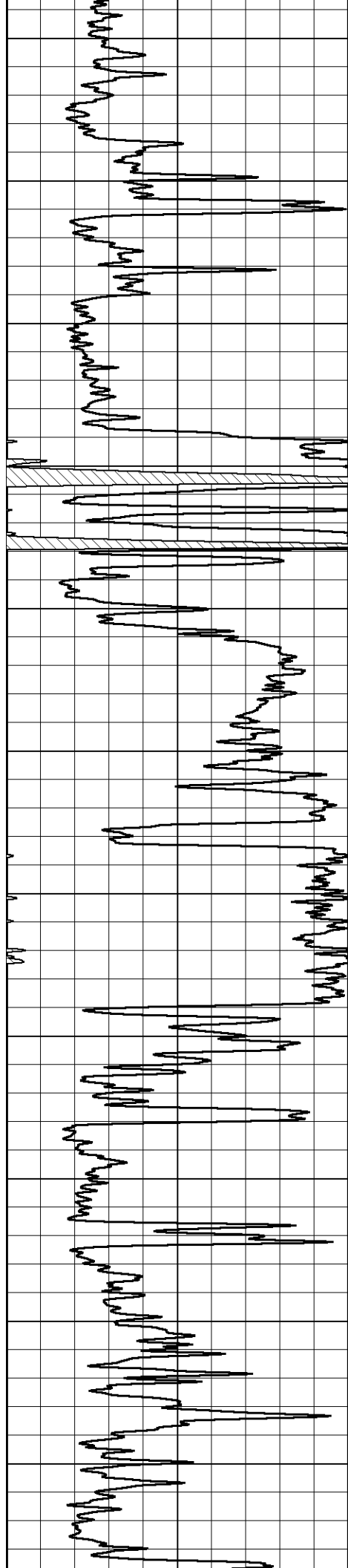
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3700





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3800

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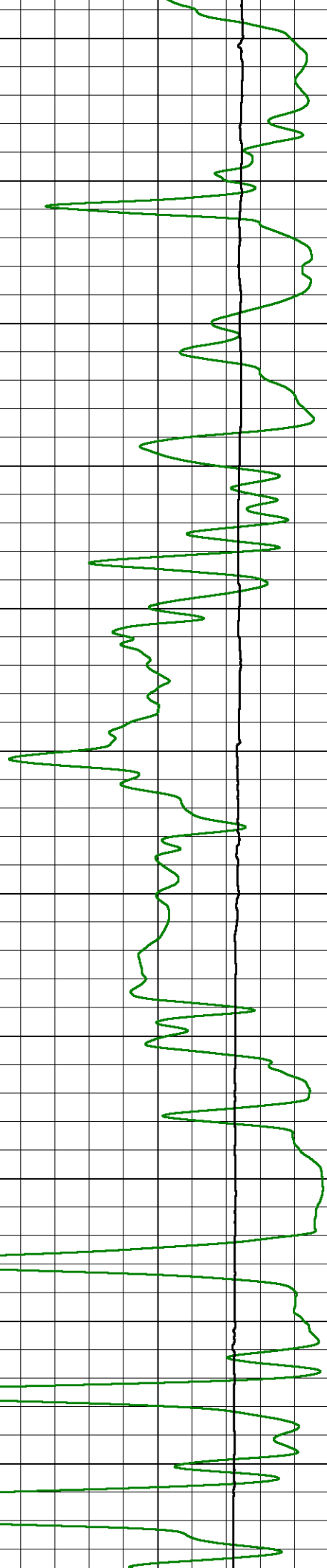
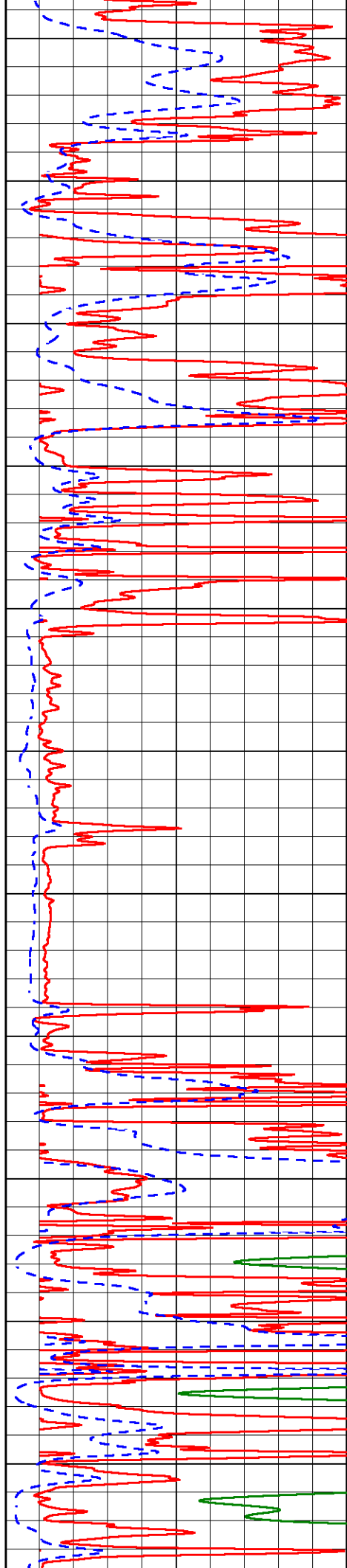
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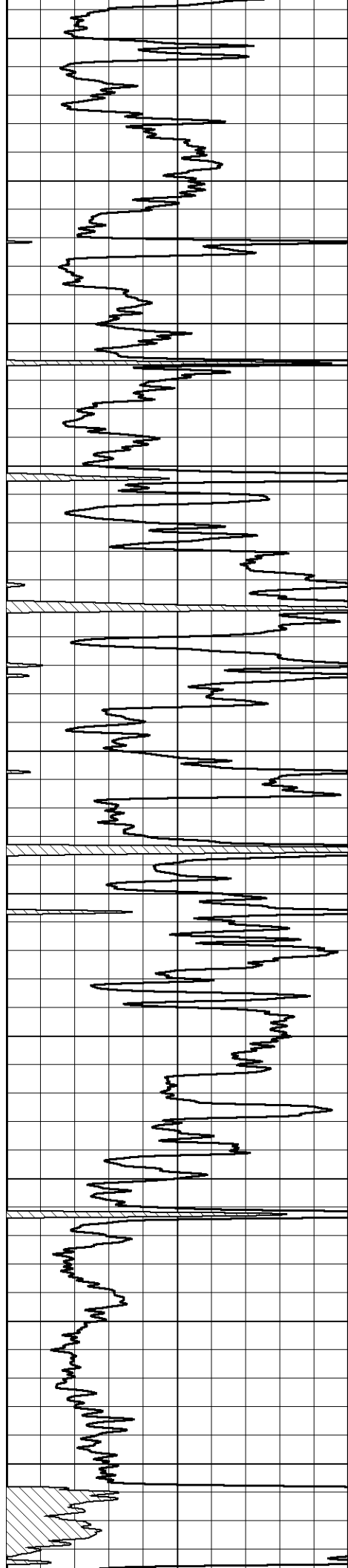
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4150

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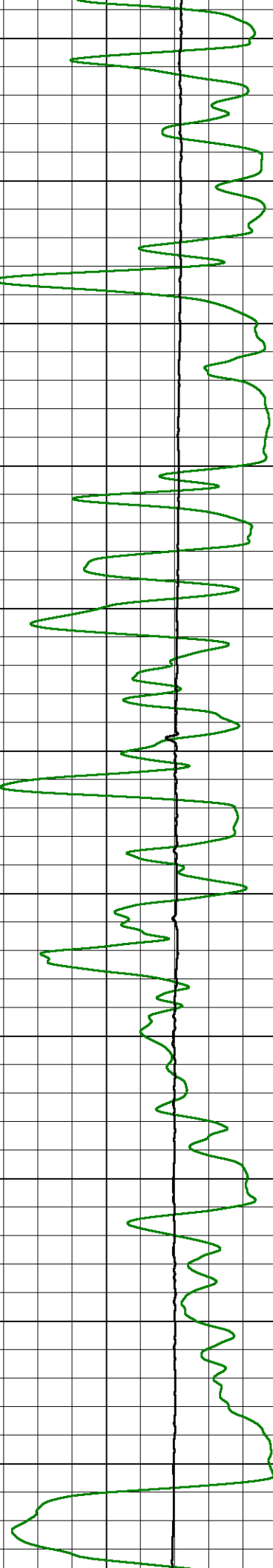
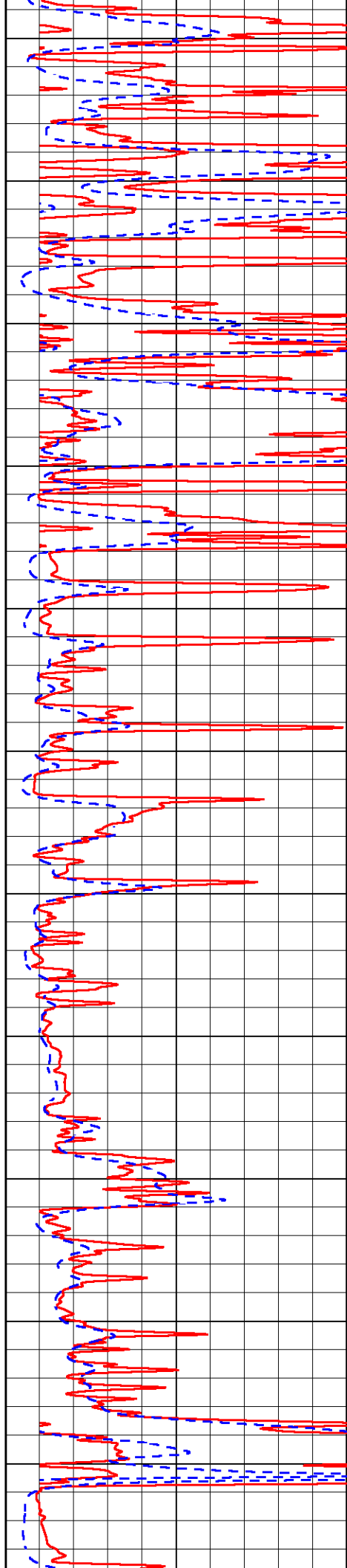
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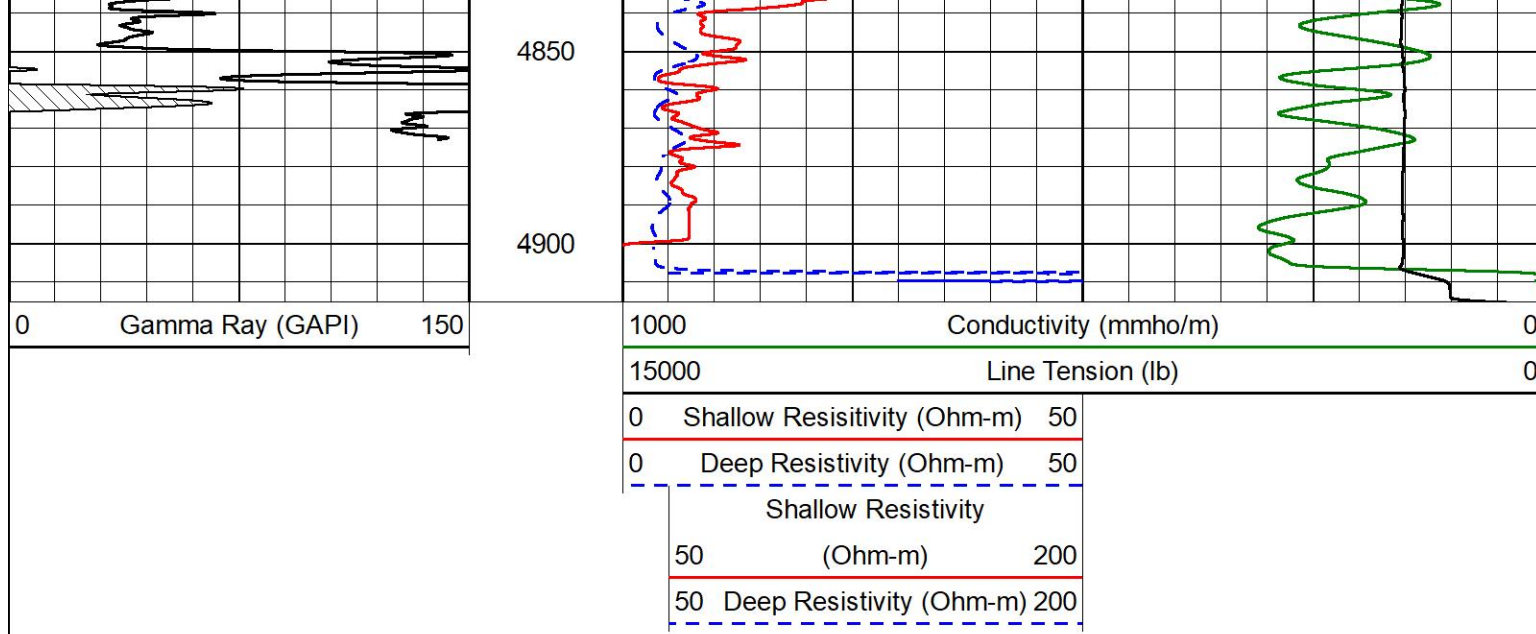
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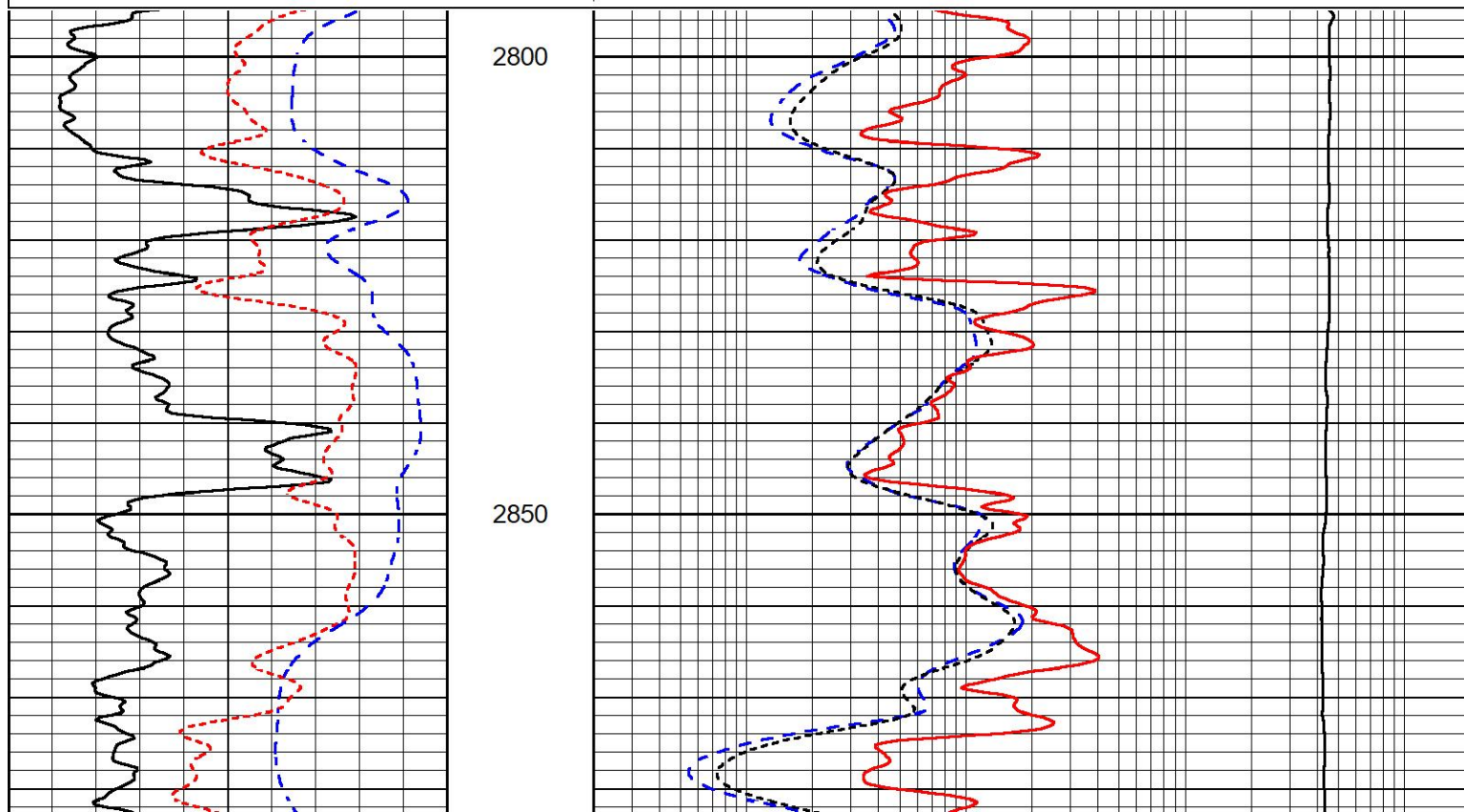
MIDWEST WIRELINE

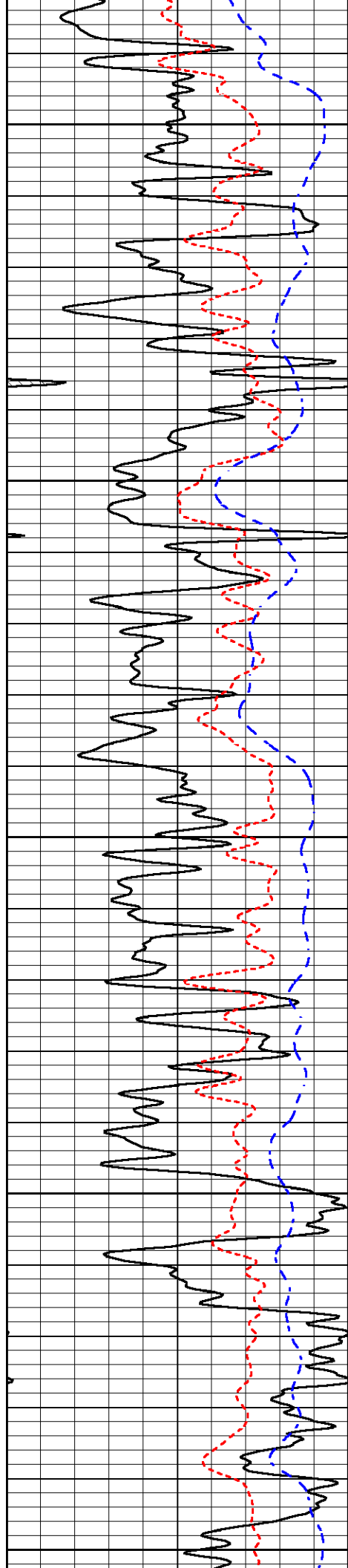
DETAIL SECTION

MAIN PASS

Database File griffin_breanna_3.db
 Dataset Pathname stackml/pass4.1
 Presentation Format _dil
 Dataset Creation Sat May 07 03:27:34 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0





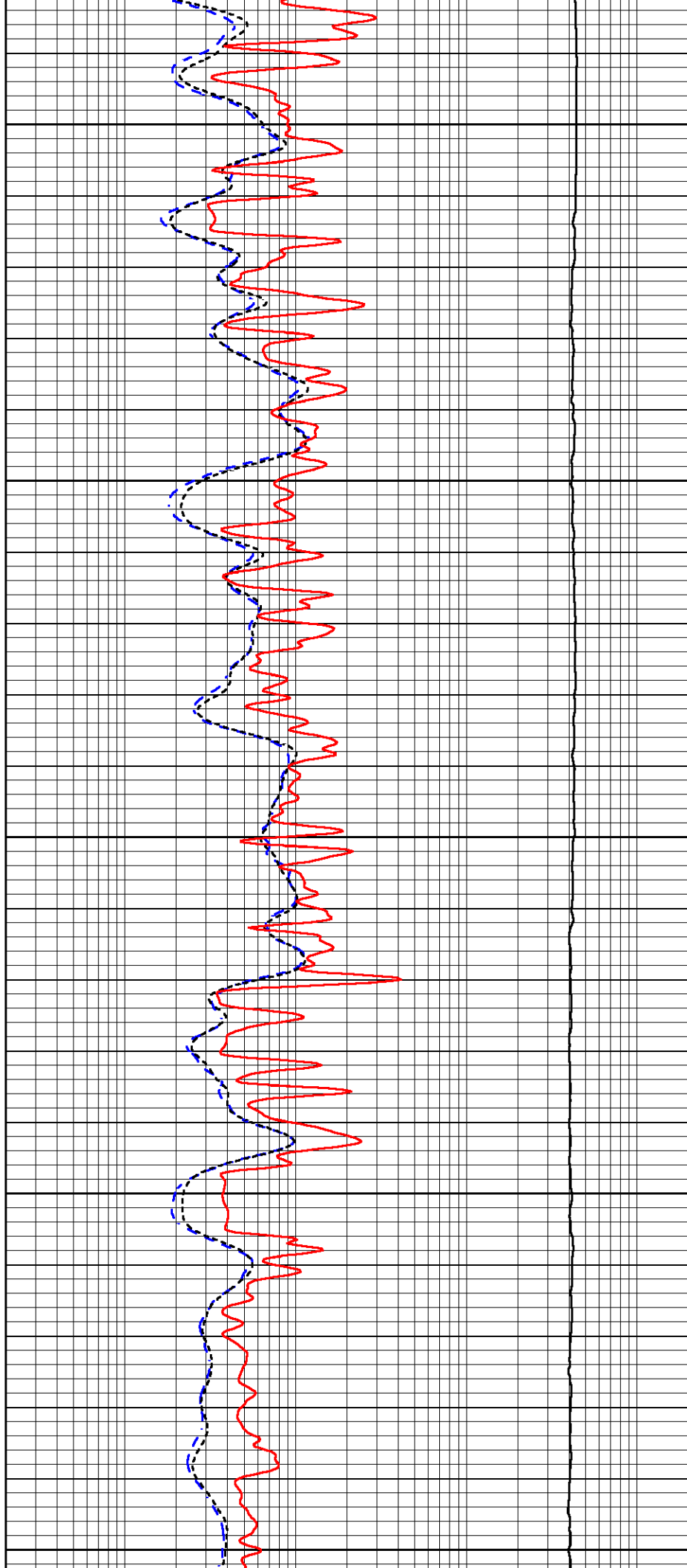
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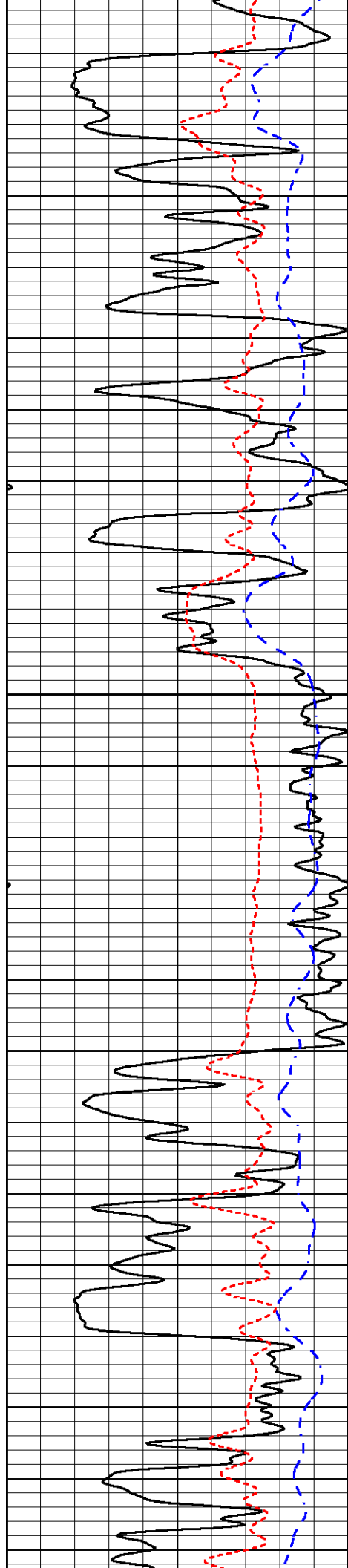
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3000

3050

3100



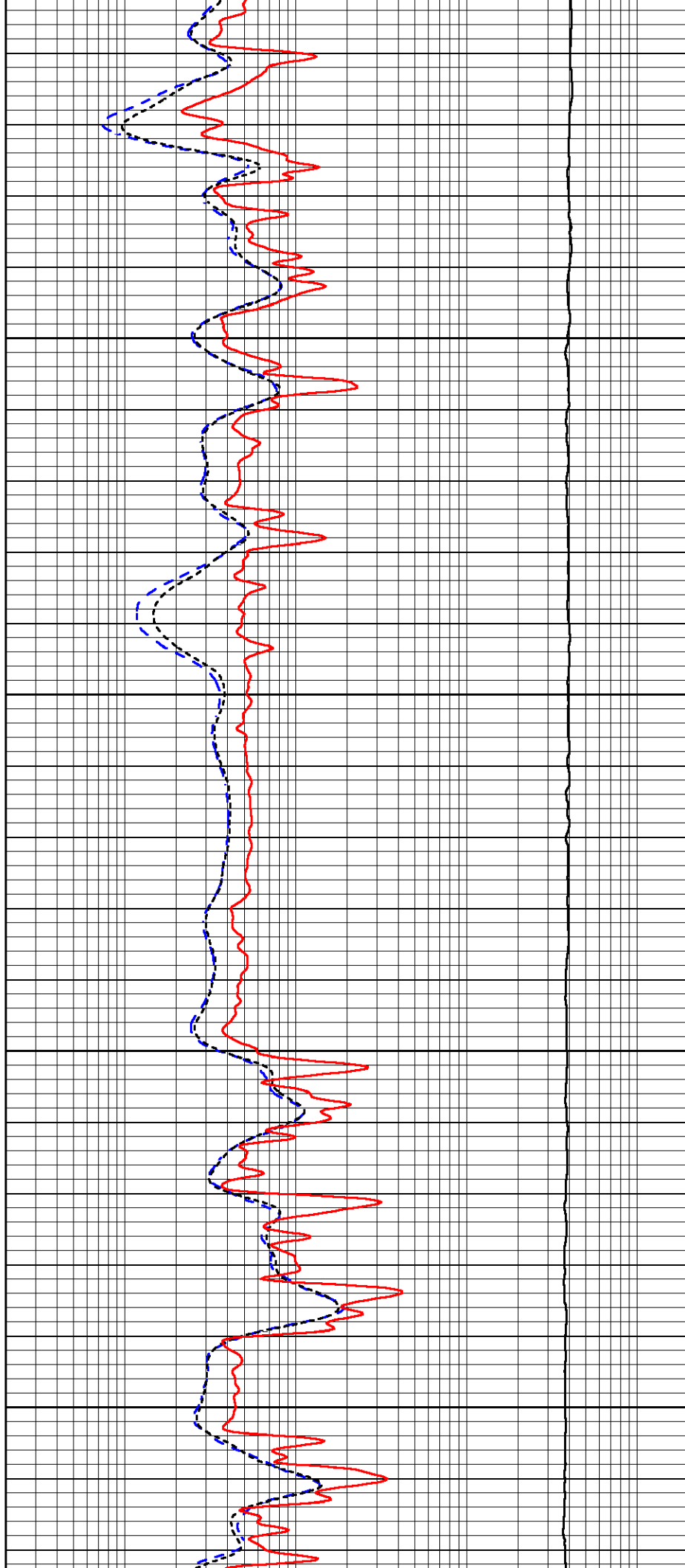


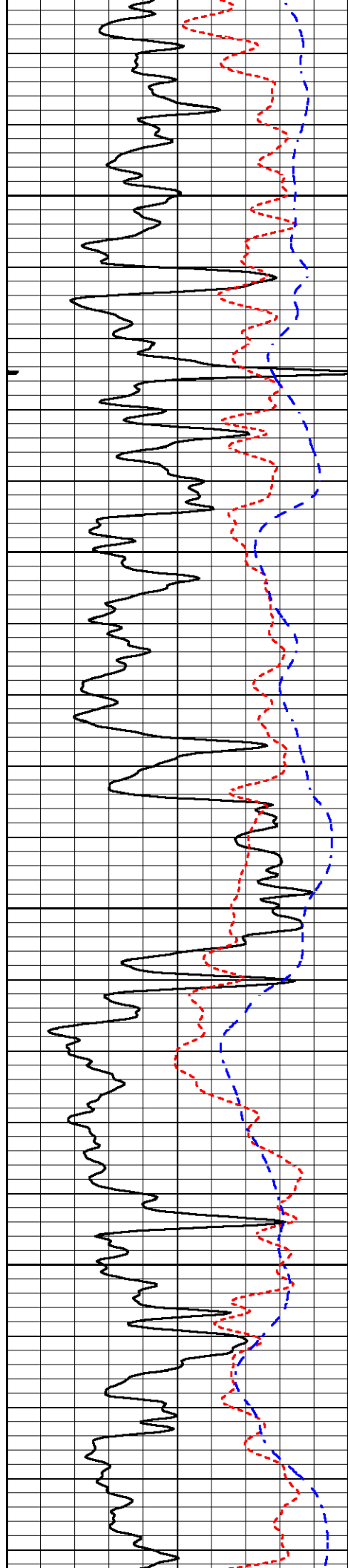
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3200

3250

3300



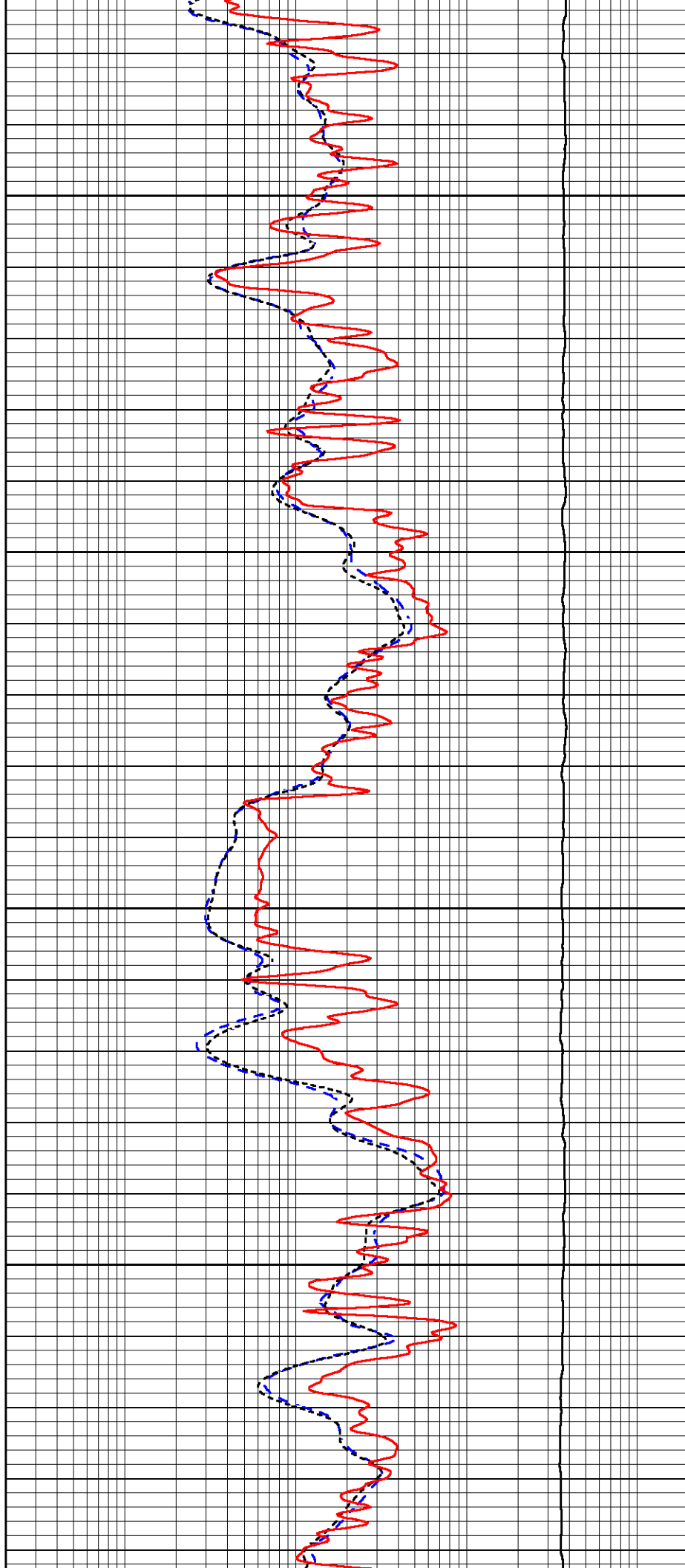


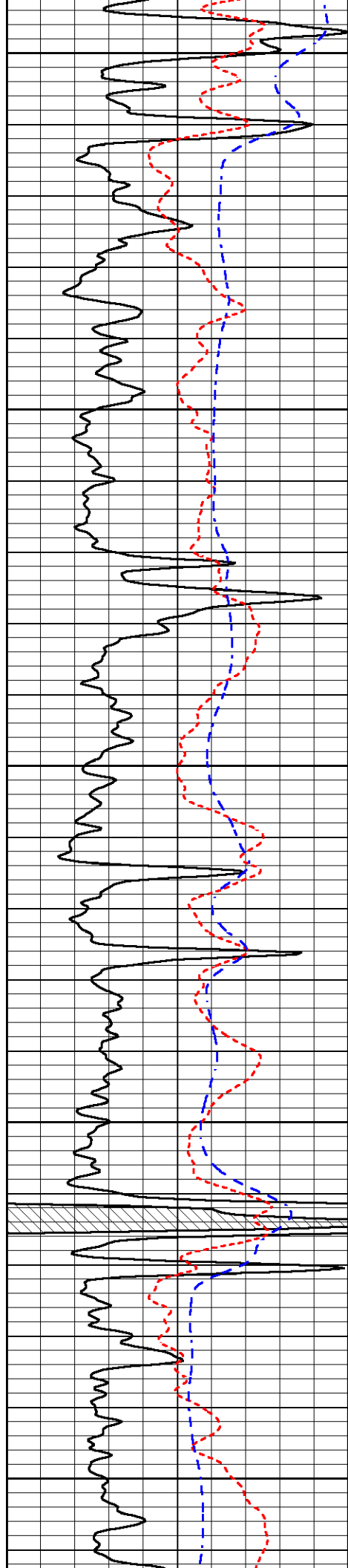
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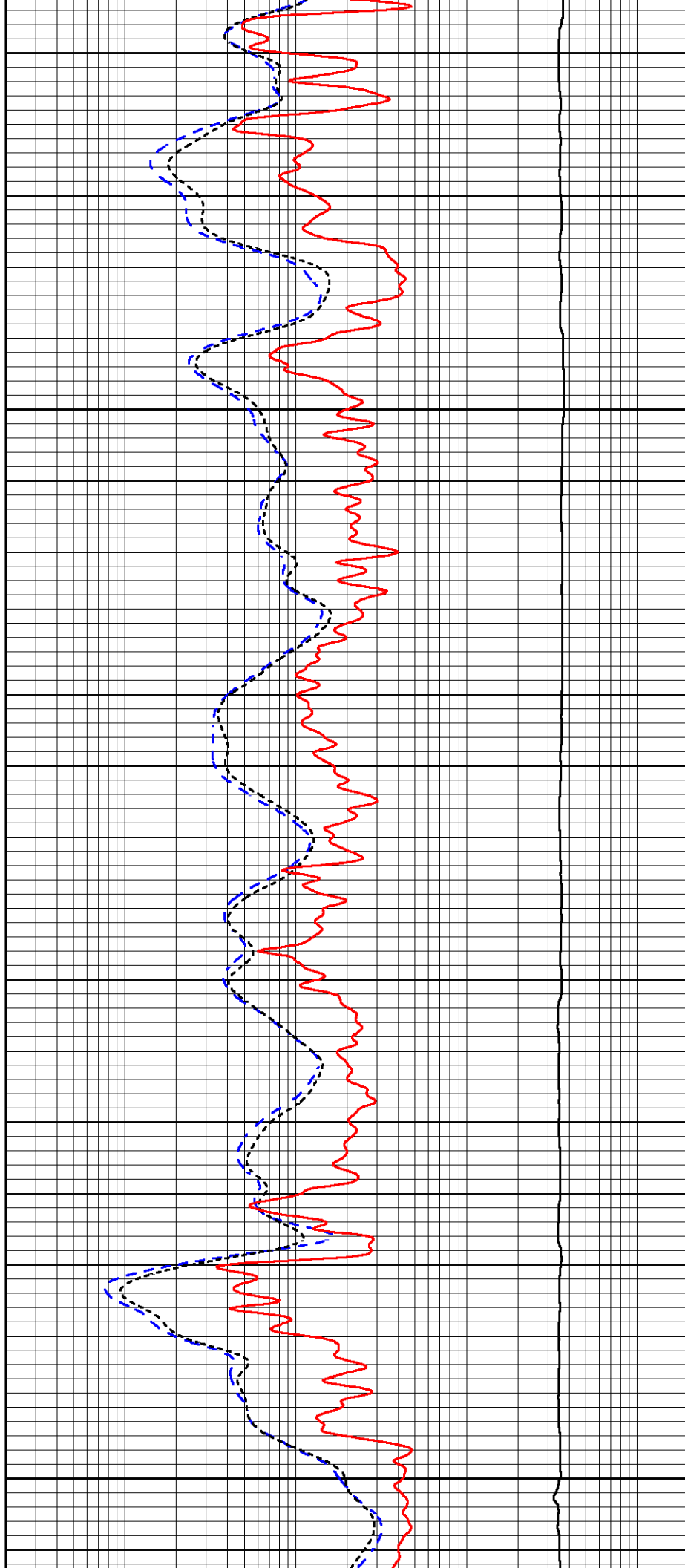
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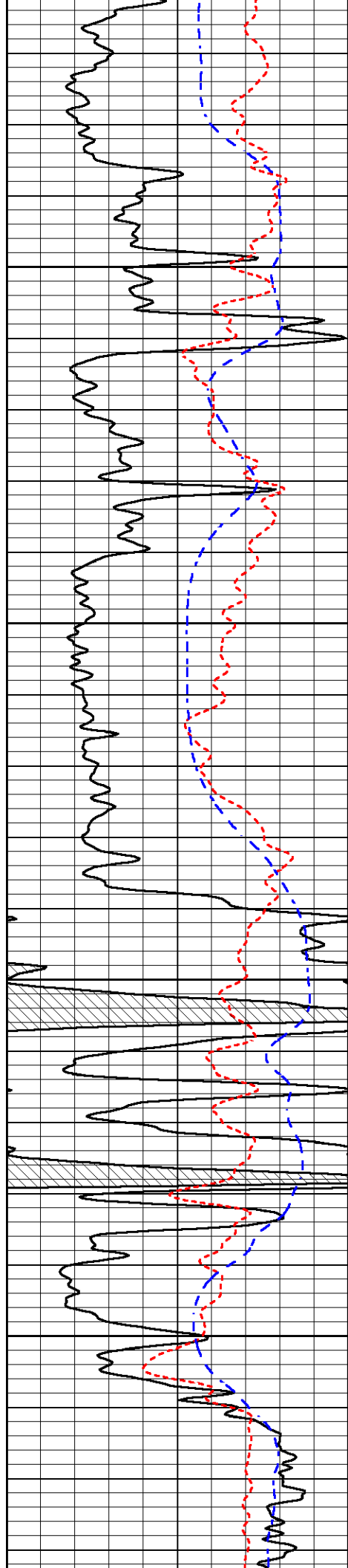
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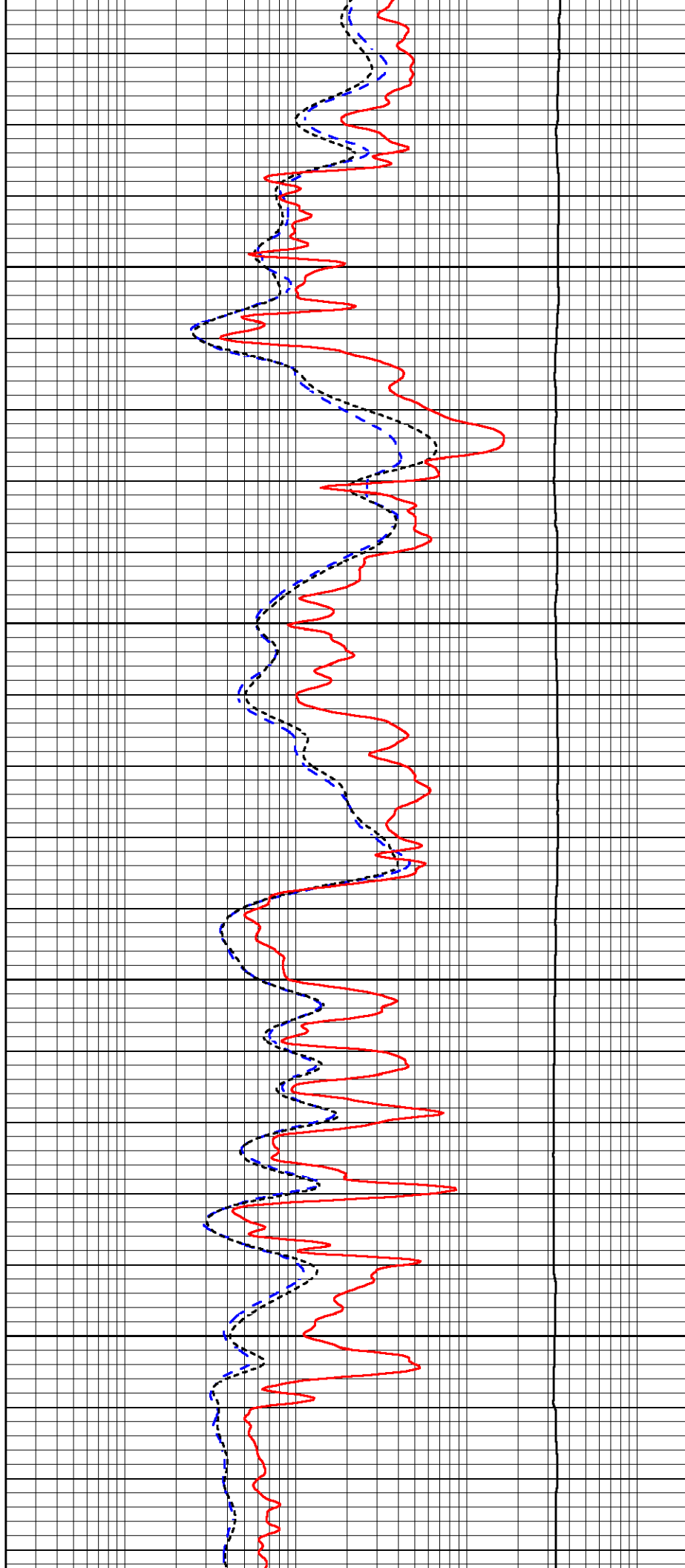


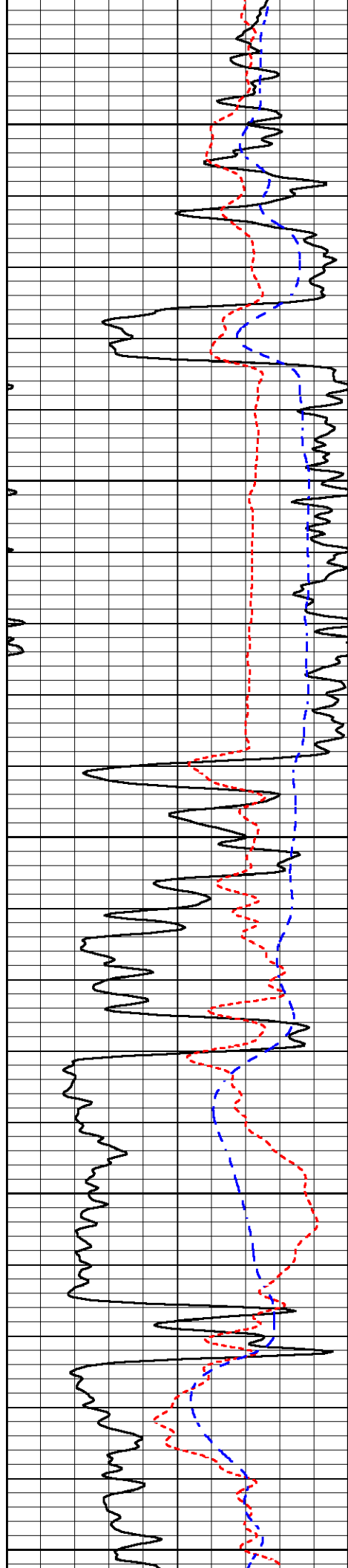
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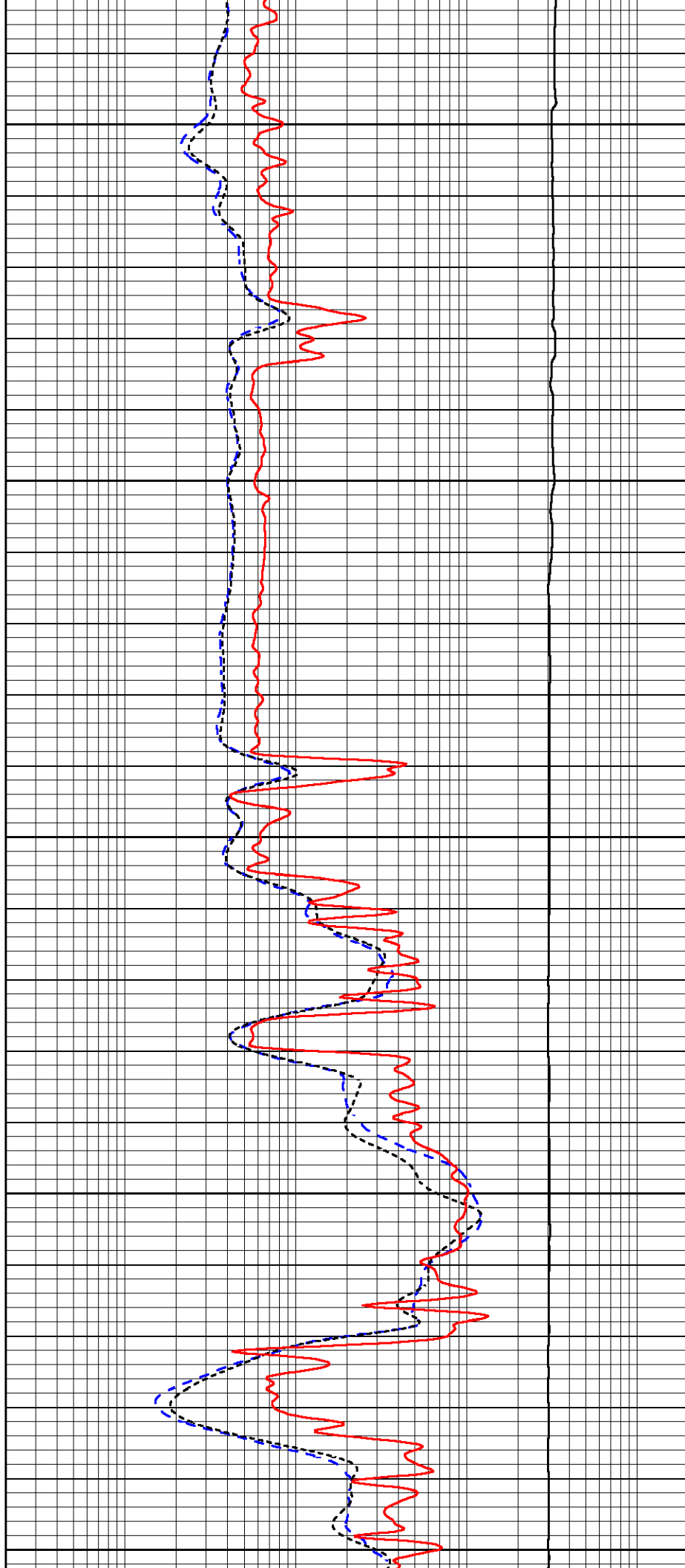
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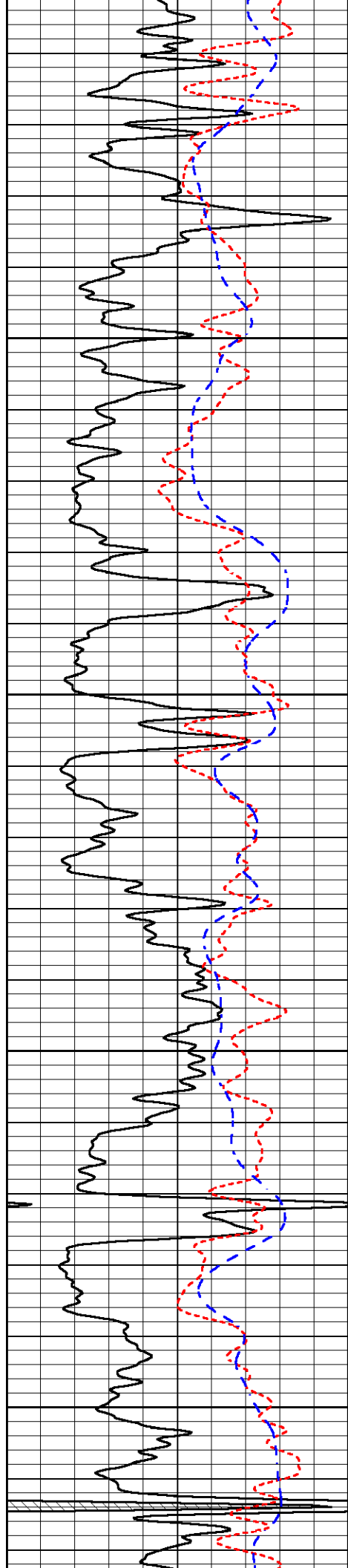
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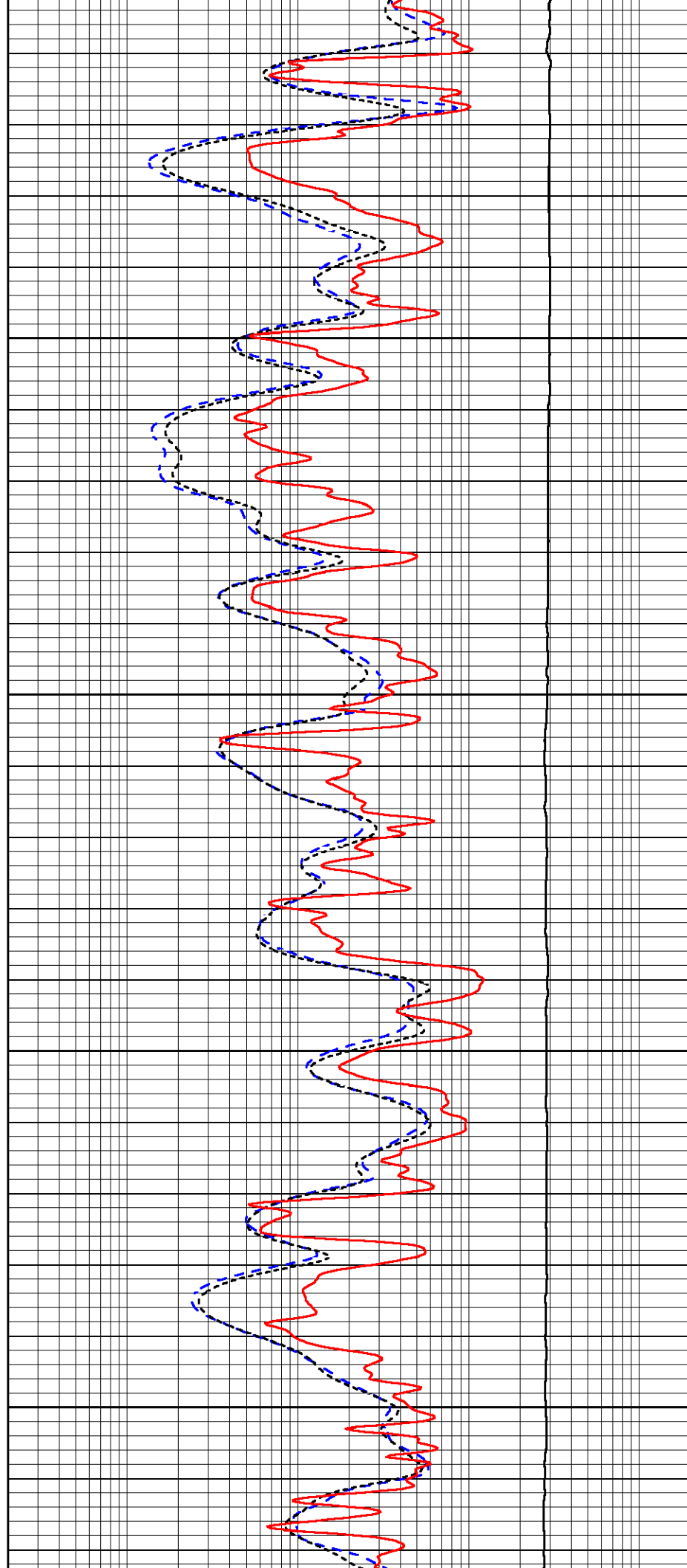


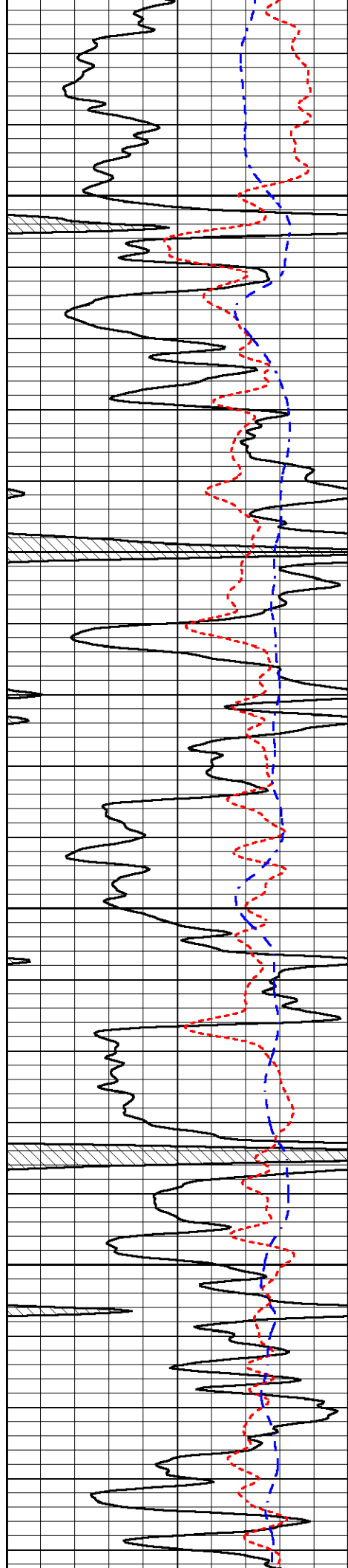
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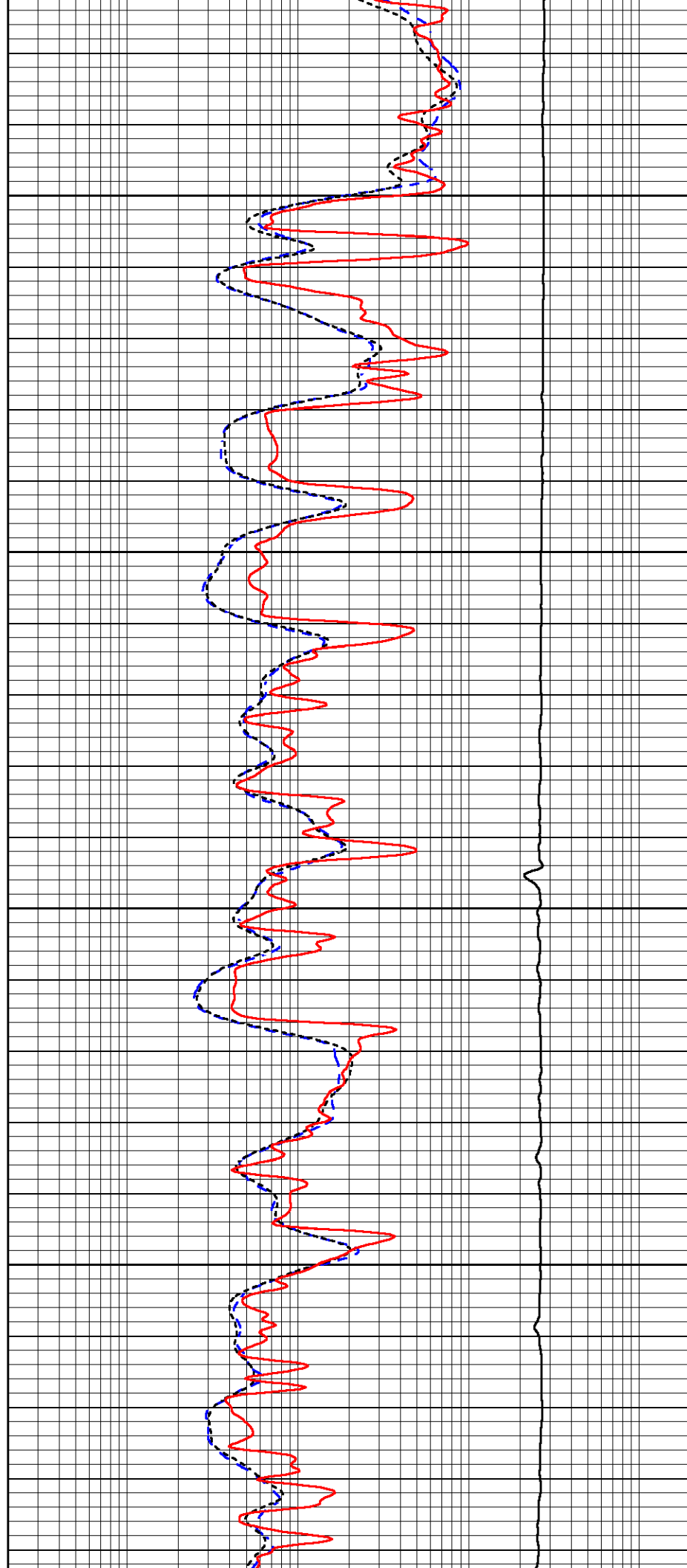


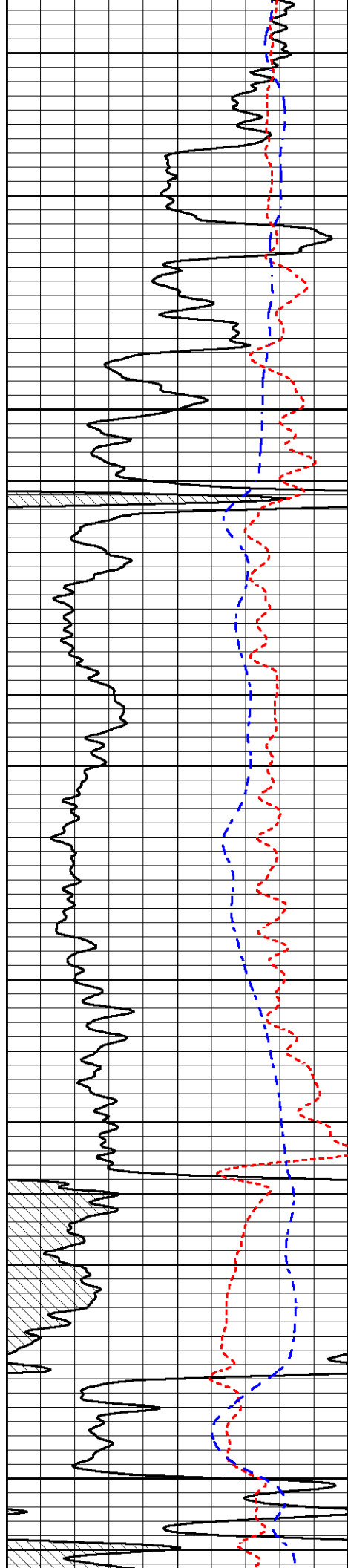
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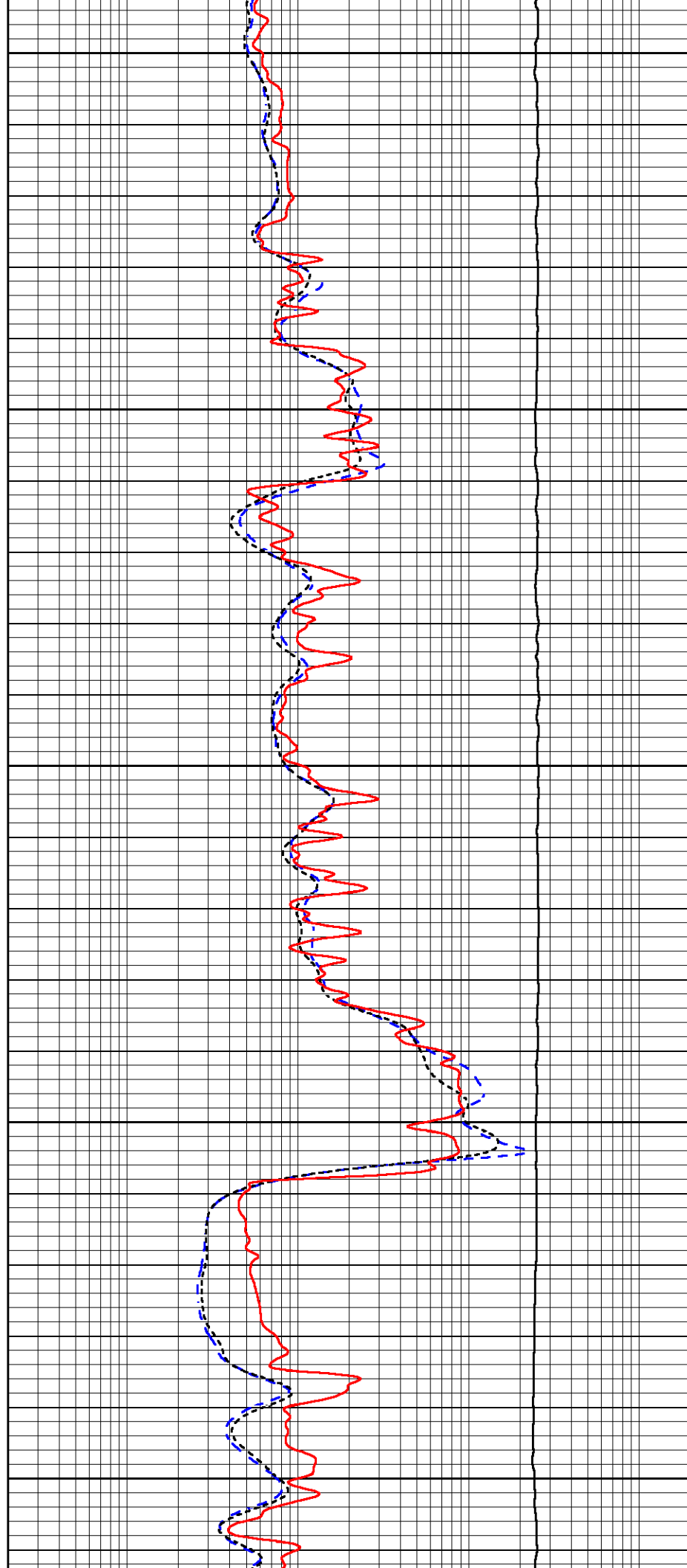
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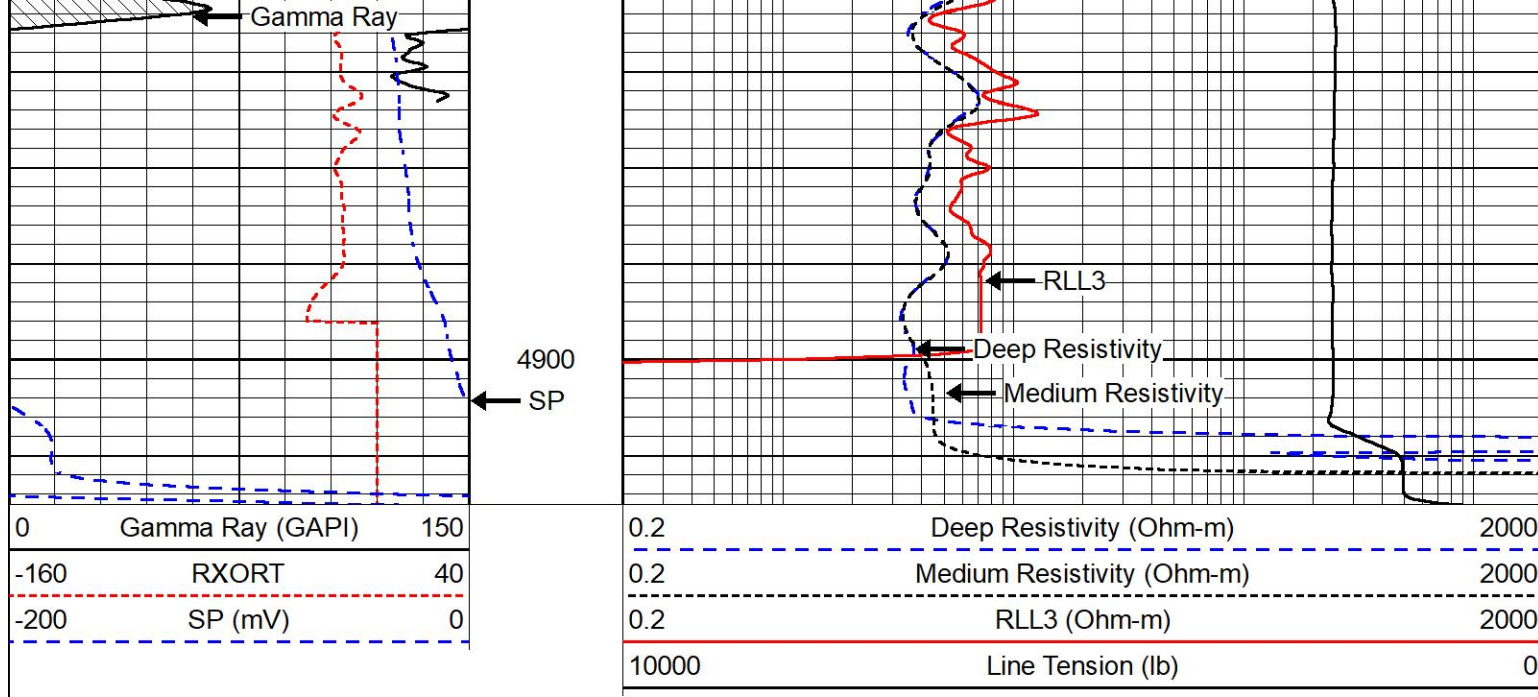
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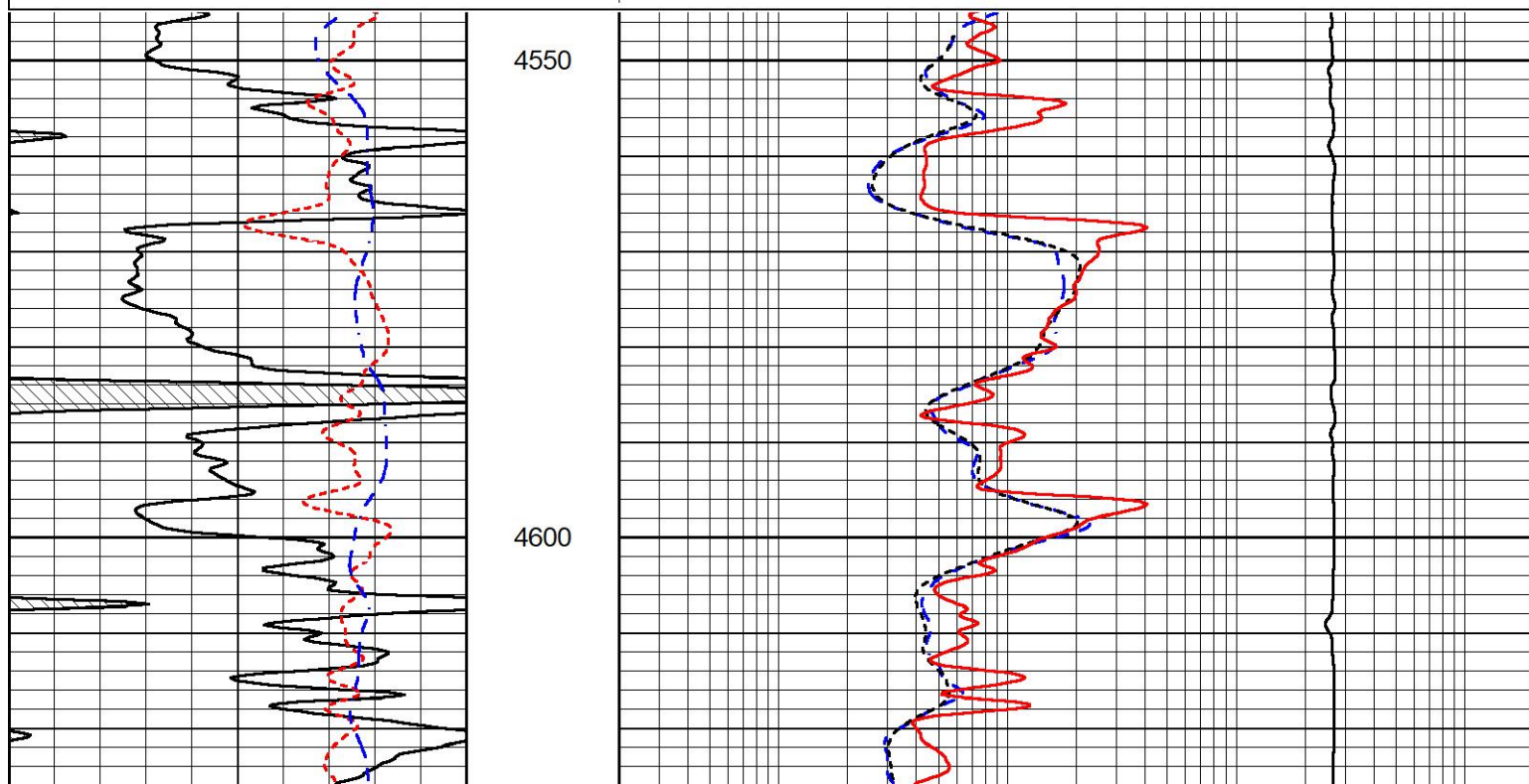
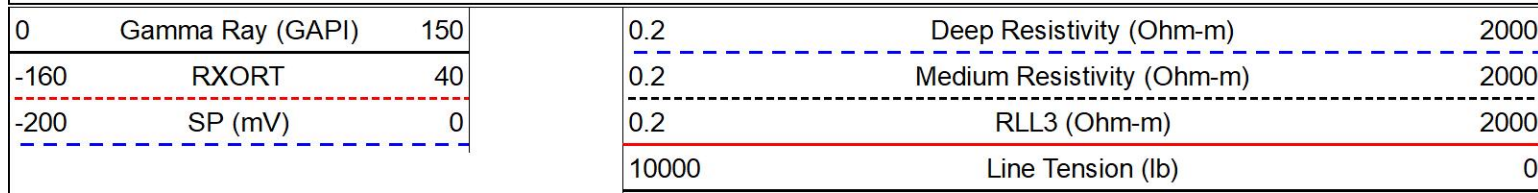


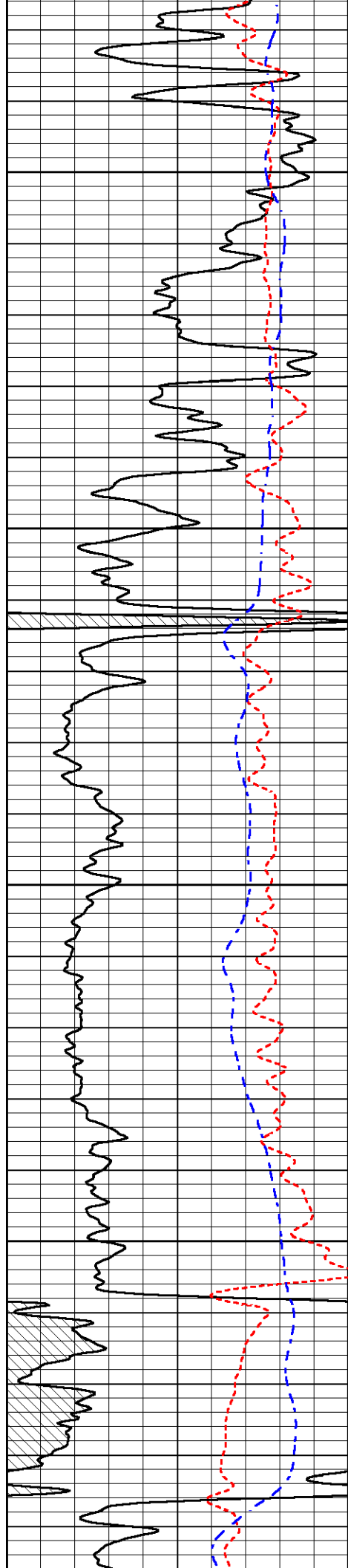
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File griffin_breanna_3.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Sat May 07 03:04:45 2022
 Charted by Depth in Feet scaled 1:240



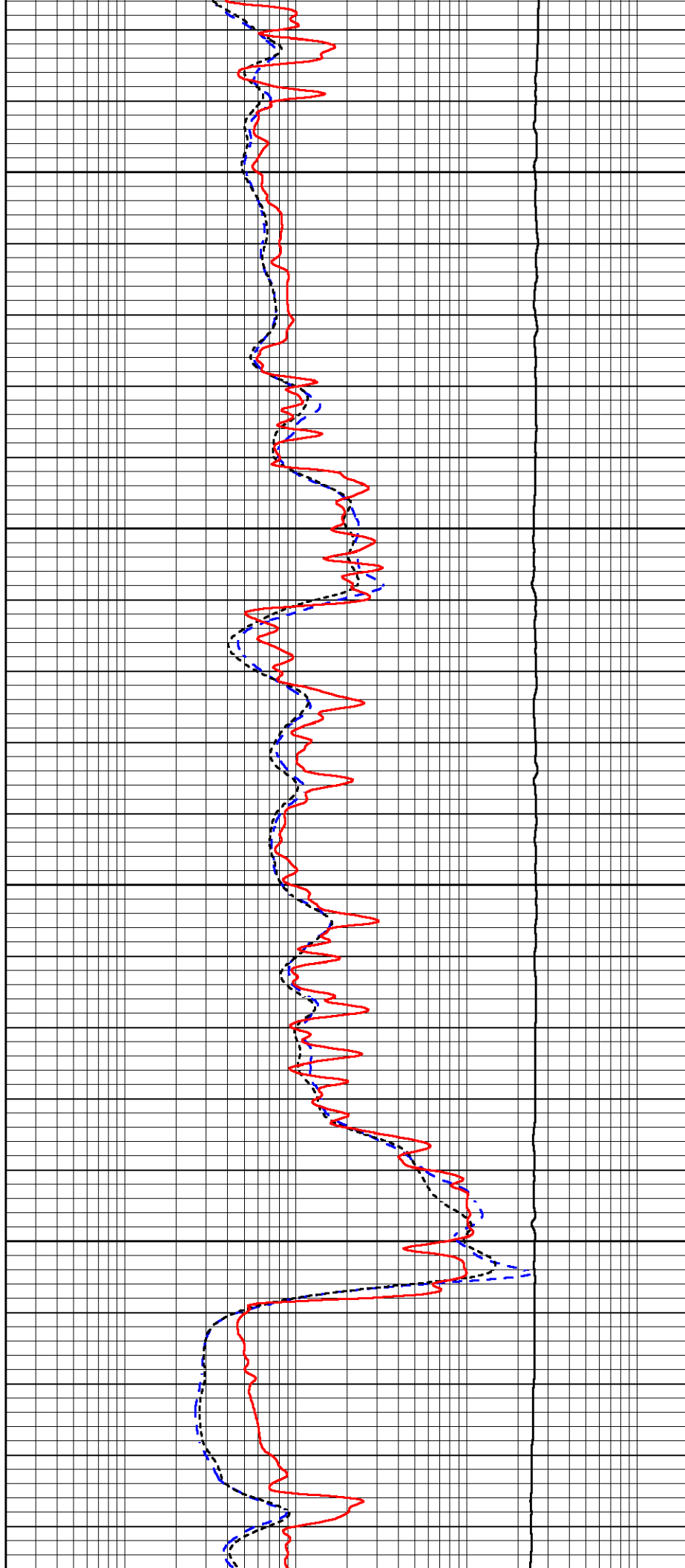


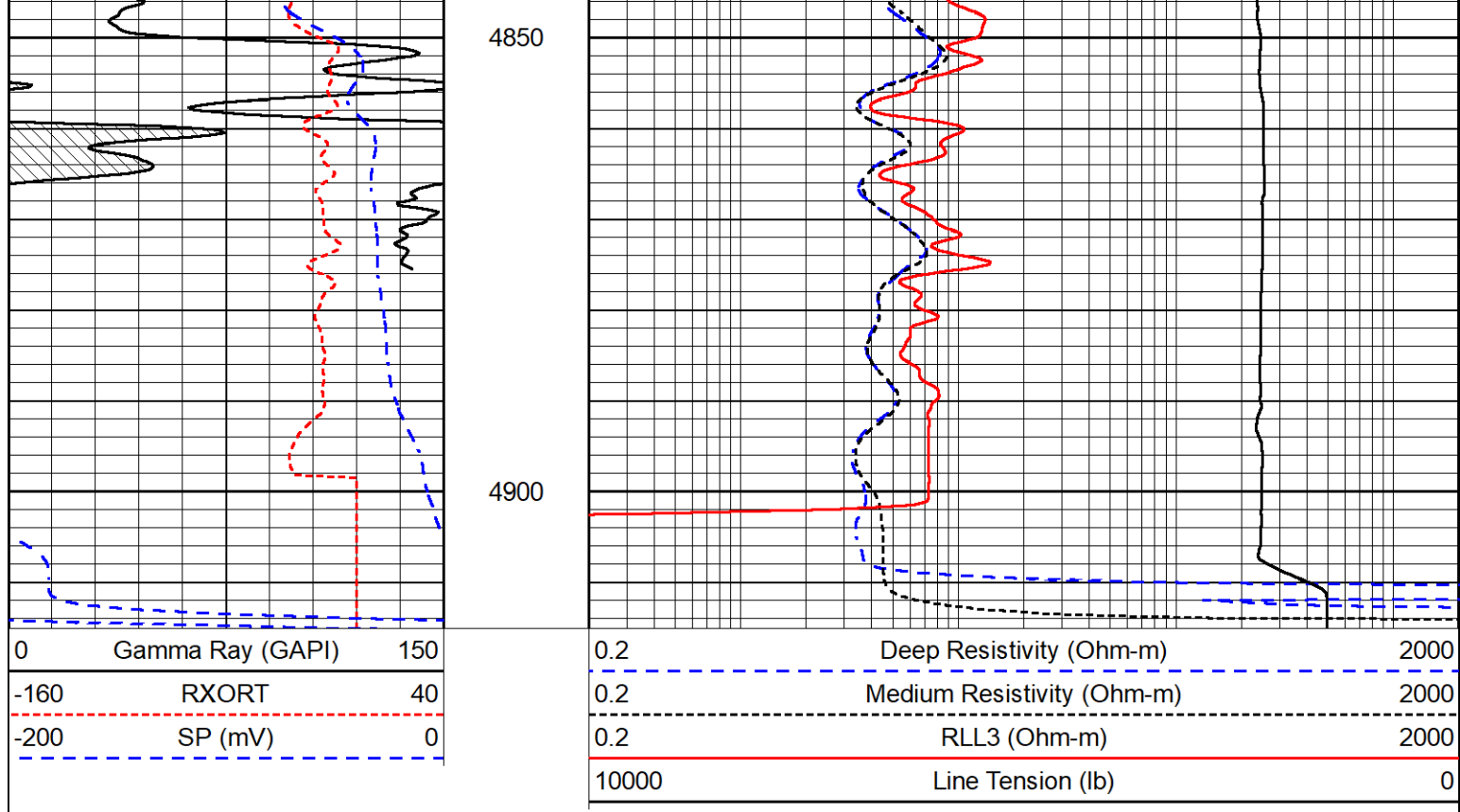
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Calibration Report							
Database File	griffin_breanna_3.db						
Dataset Pathname	stackml/pass4.1						
Dataset Creation	Sat May 07 03:27:34 2022						
Dual Induction Calibration Report							
Serial-Model:				504 HT-M&W			
Surface Cal Performed:				Thu Dec 16 22:32:49 2021			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	178.615	710.235		0.000	255.800	mmho/m	0.650
Medium	161.982	1441.110		0.000	255.800	mmho/m	0.450
					</		

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