

MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Charles N. Griffin		Company Charles N. Griffin	
Well	Riley #1X	Well	Riley #1X
Field	Moffett	Field	Moffett
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24425-00-00		Other Services	
Permanent Datum NW NW NW SE		CNL/CDL	
Log Measured From Kelly Bushing		MEL	
Drilling Measured From Kelly Bushing		Elevation	
SEC 9 TWP 30S RGE 15W		K.B. 1987	
		D.F. 1982	
		G.L. 1982	
Date	5/26/2022		
Run Number	One		
Depth Driller	4834		
Depth Logger	4834		
Bottom Logged Interval	4833		
Top Log Interval	250		
Casing Driller	8.625 @ 263		
Casing Logger	264		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7000		
Density / Viscosity	9.4 52		
pH / Fluid Loss	10.5 9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.8 @ 76		
Rmt @ Meas. Temp	0.6 @ 76		
Rmc @ Meas. Temp	1.08 @ 76		
Source of Rmt / 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.

Croft Blktp, S to 110, 1 E, S to location

Log Measured From: Kelly Bushing5 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: T. Martin		Primary Witness: Eli Felts	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (101)	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 28.17 27.68			CDL-M&W (305-05)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58			ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50						
CILD	8.33			DIL-M&W (502 HT)	18.25	3.50	220.00
CILM	4.50						
SP	0.20						
Dataset: griffin_riley #1x.db: field/well/StkMI/pass4.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_riley #1x.db
Dataset field/well/StkMI/pass4.1/_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 10	degF 80	Off	ft 4834

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

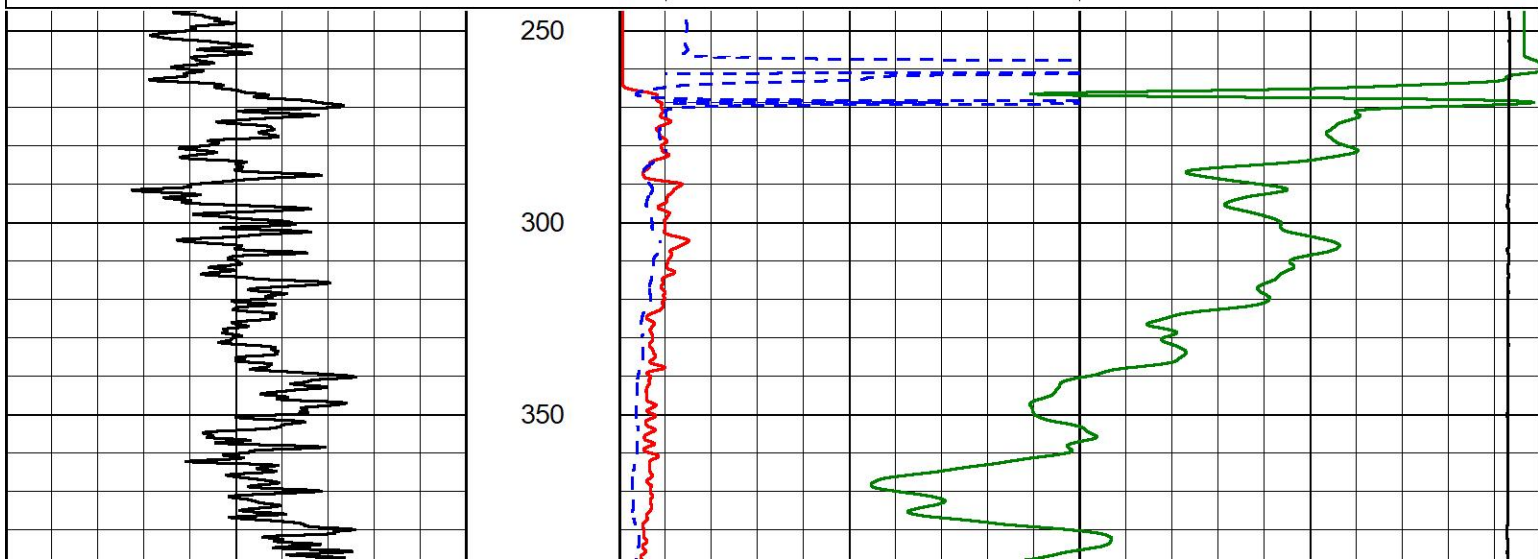


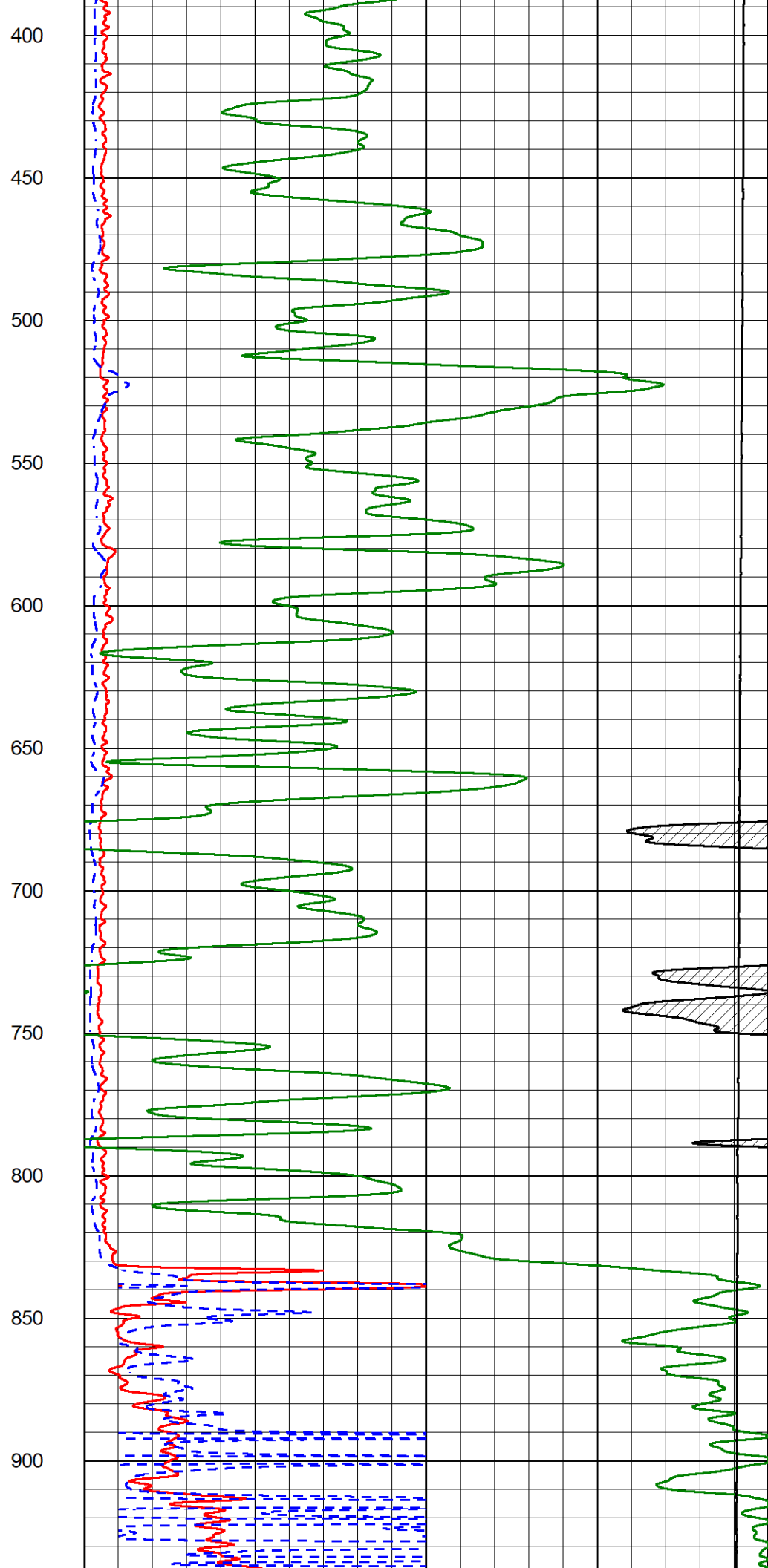
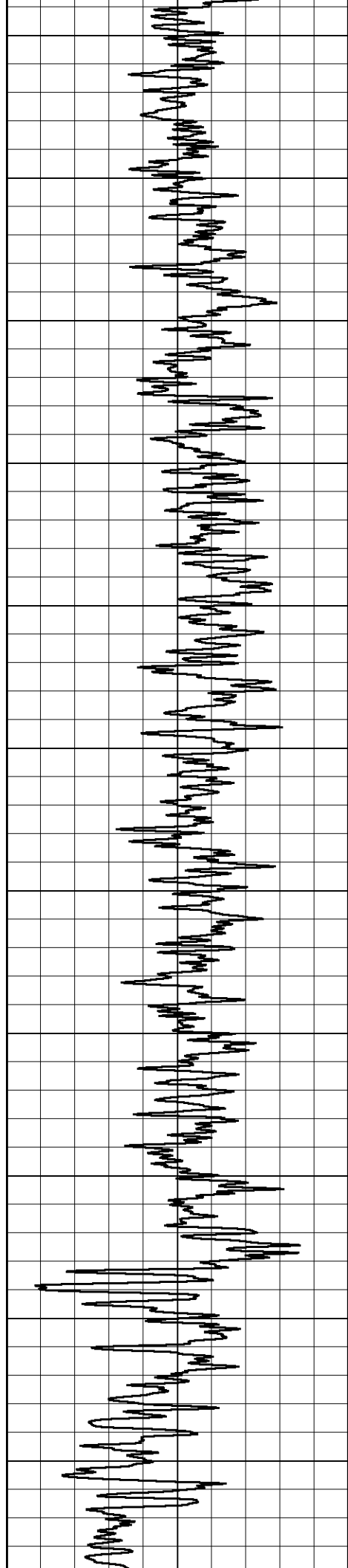
2" SCALE RESISTIVITY

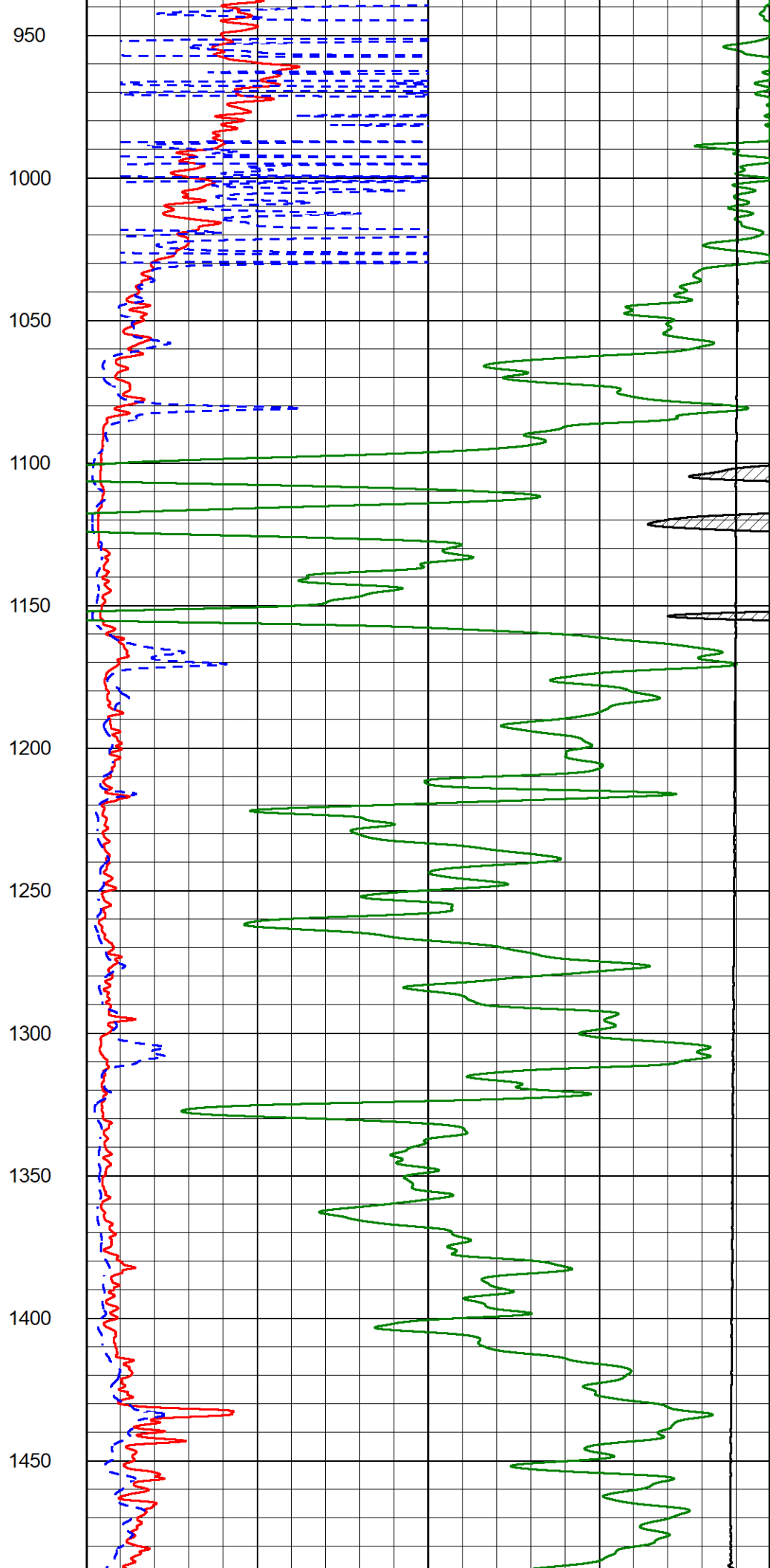
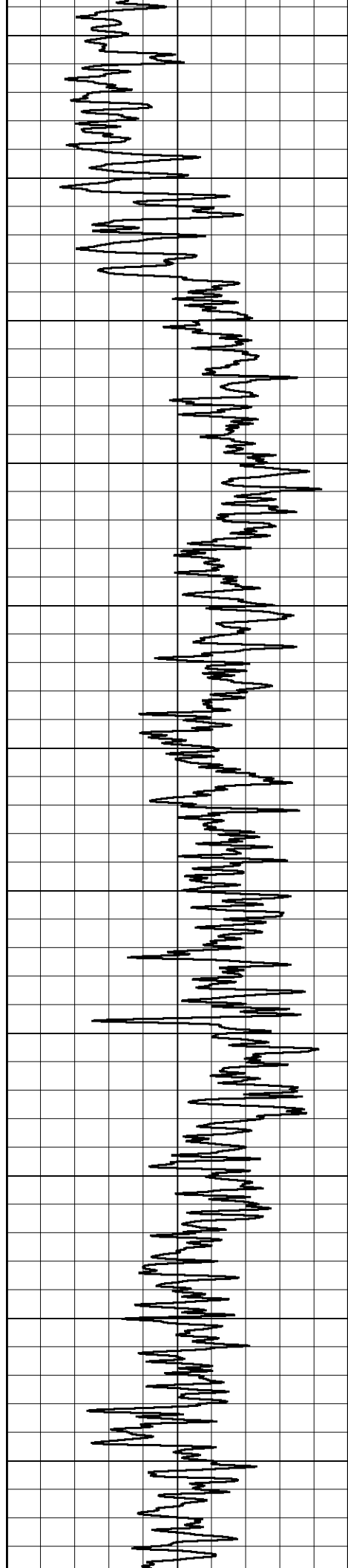
MAIN PASS

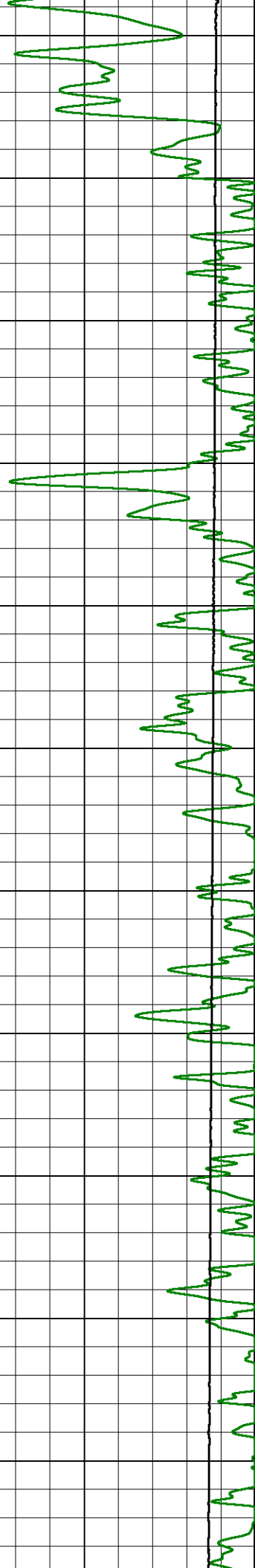
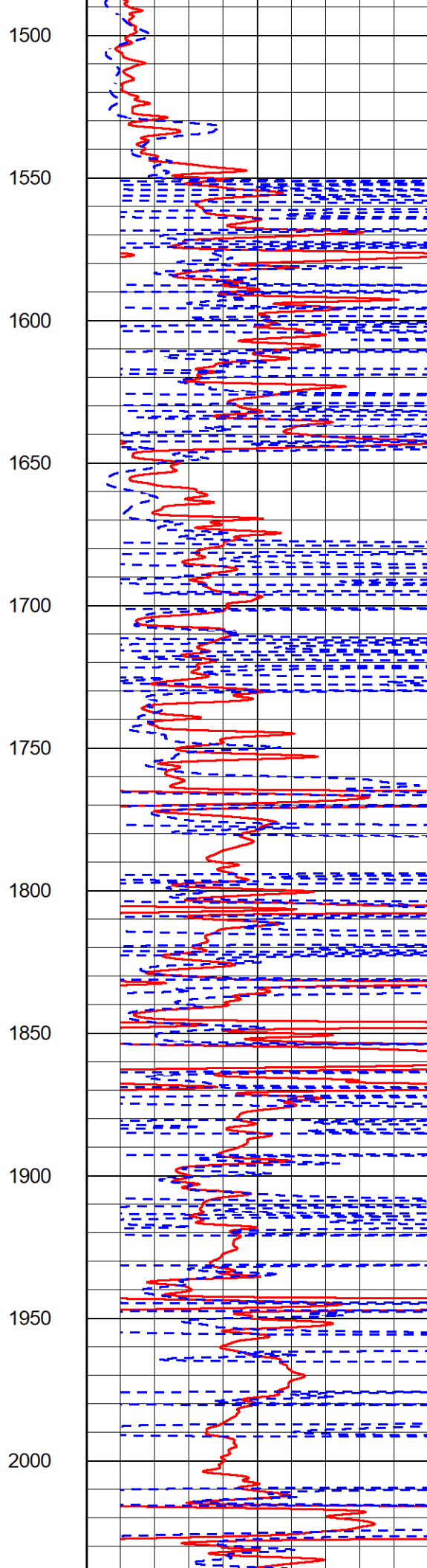
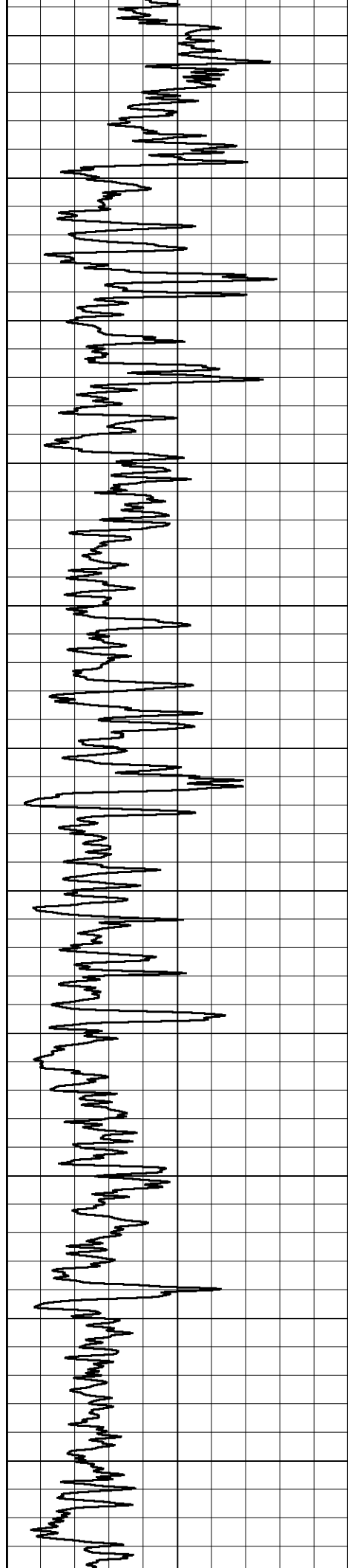
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Dataset Pathname StkMI/pass4.2
Presentation Format _dil2in
Dataset Creation Thu May 26 14:12:08 2022
Charted by Depth in Feet scaled 1:600

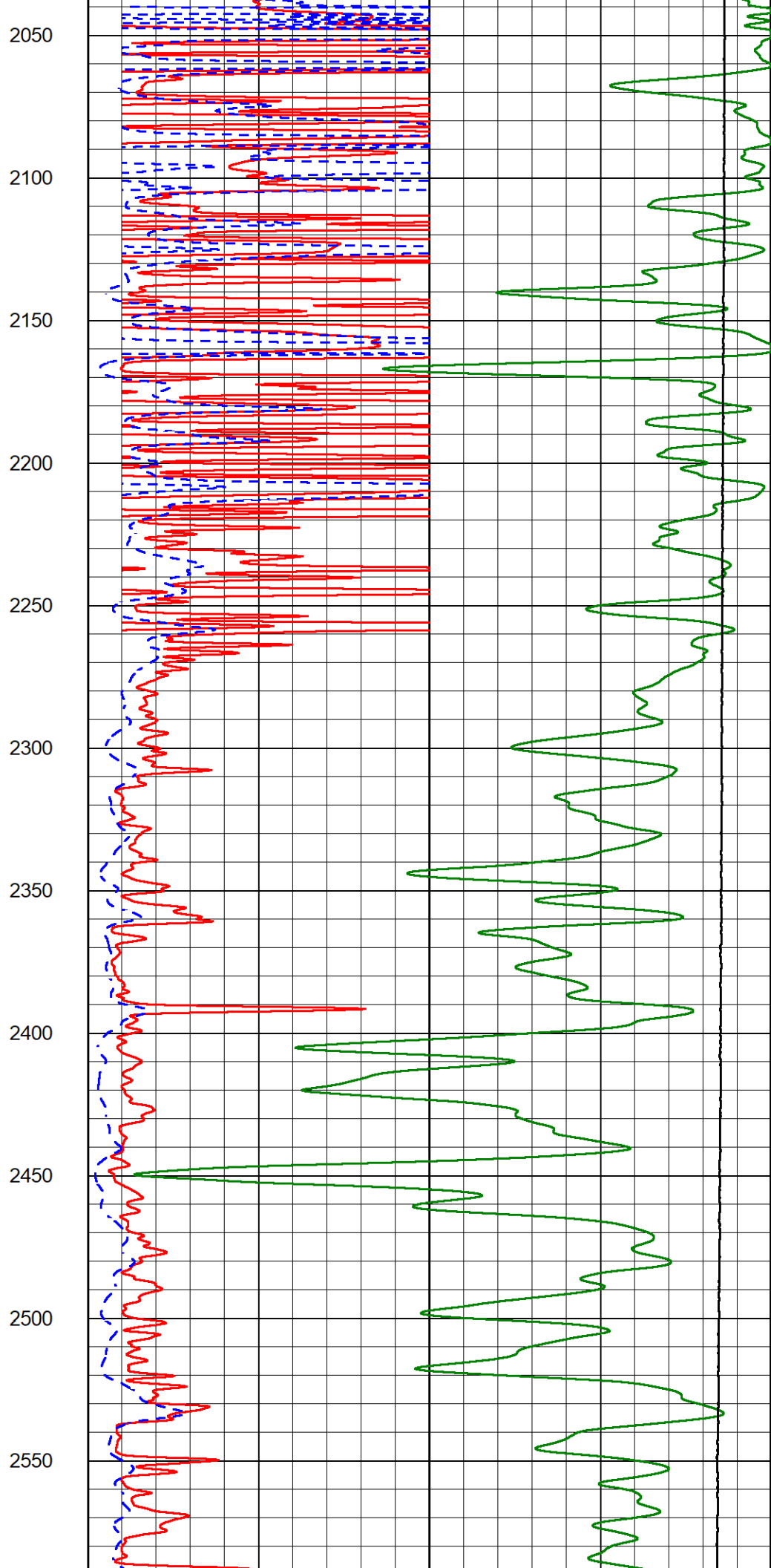
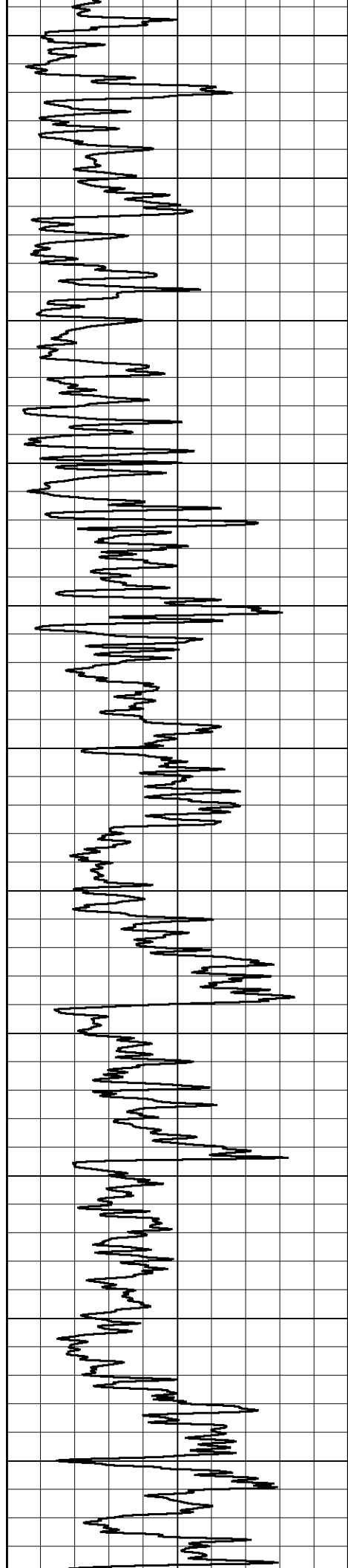
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			15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50			
0	Deep Resistivity (Ohm-m)	50			
	Shallow Resistivity				
50	(Ohm-m)	200			
50	Deep Resistivity (Ohm-m)	200			

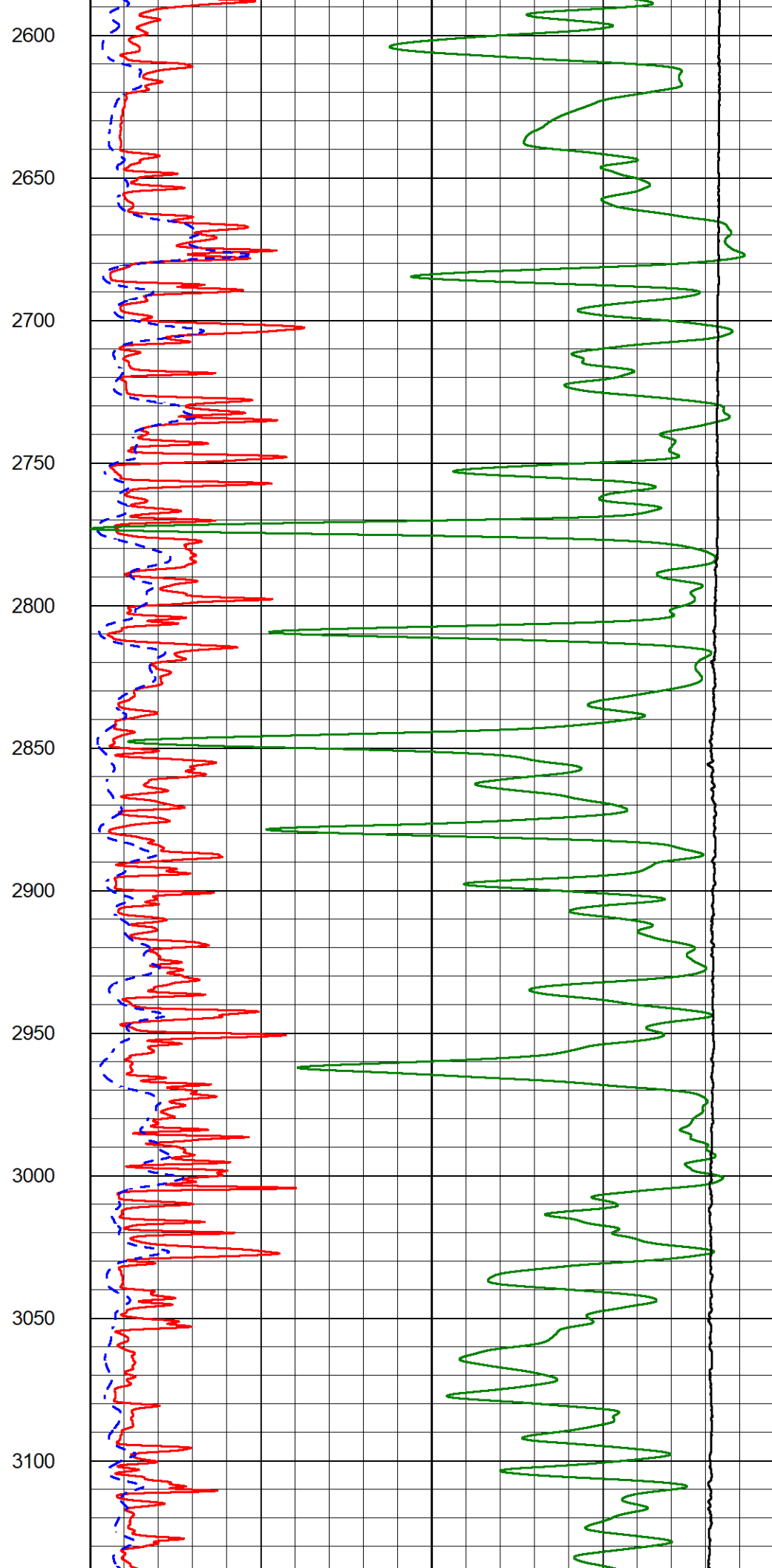
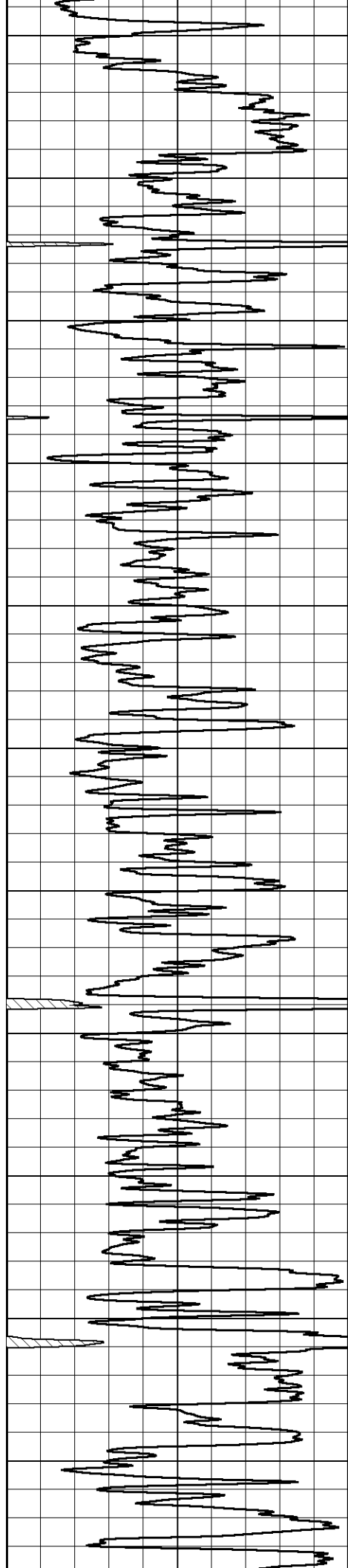


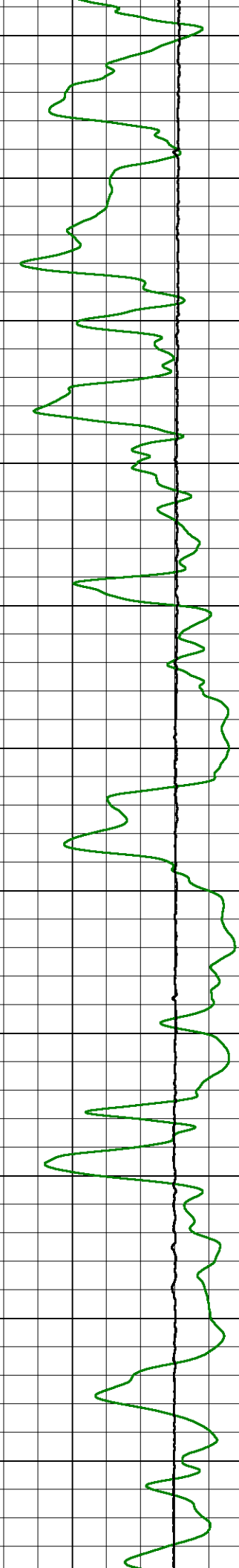
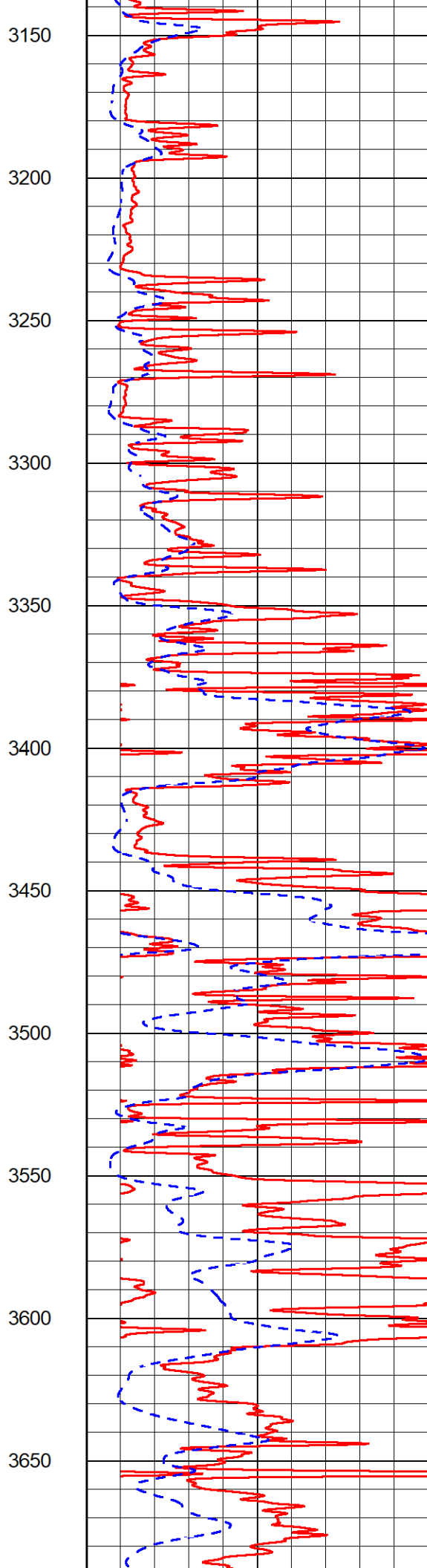
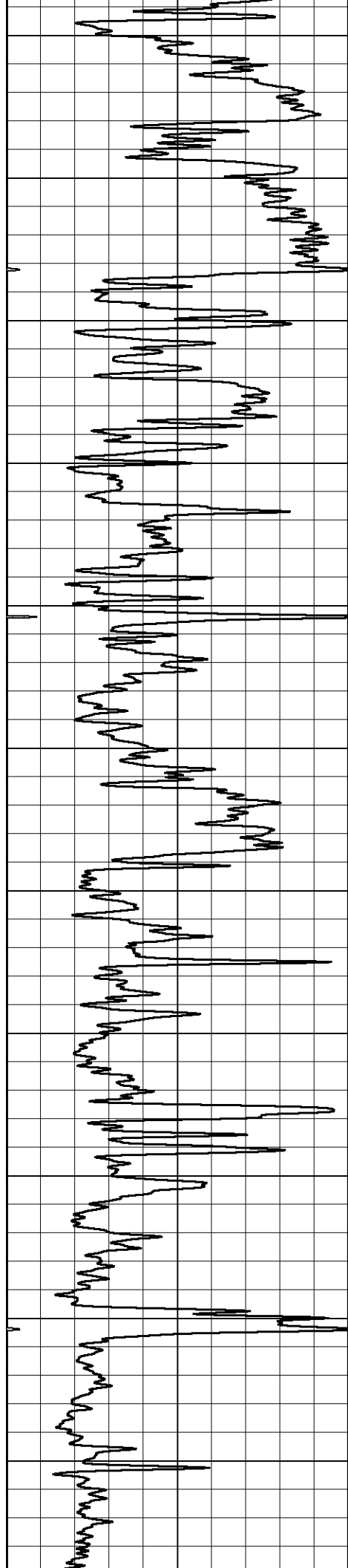


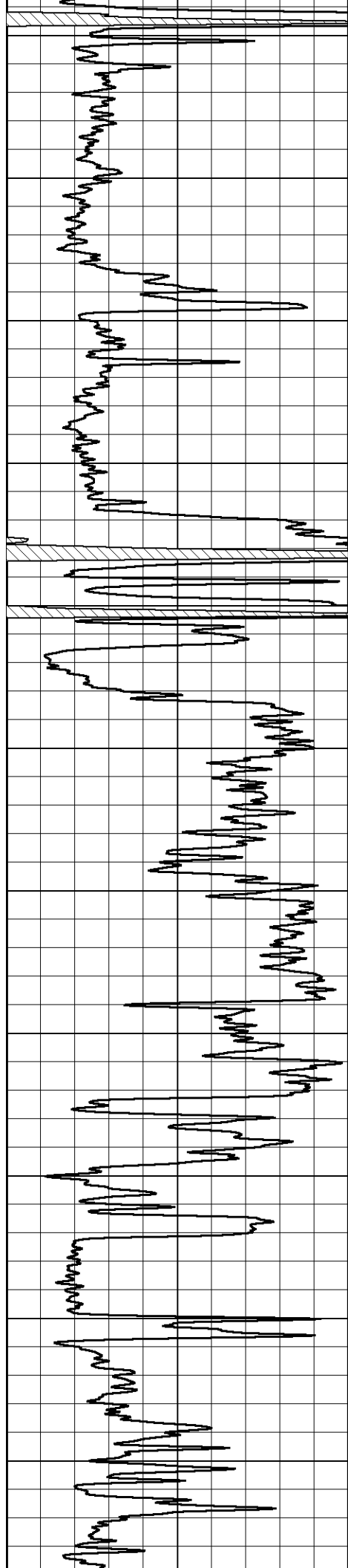












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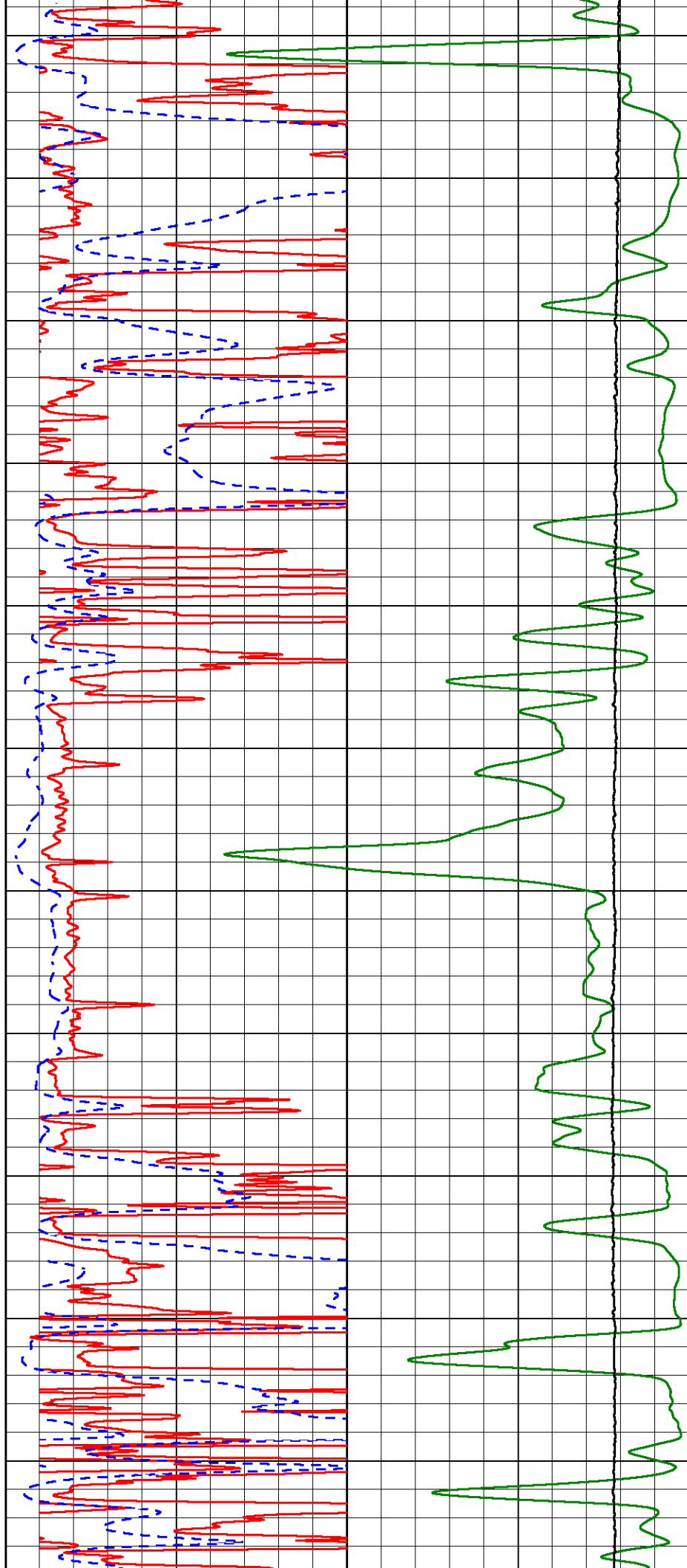
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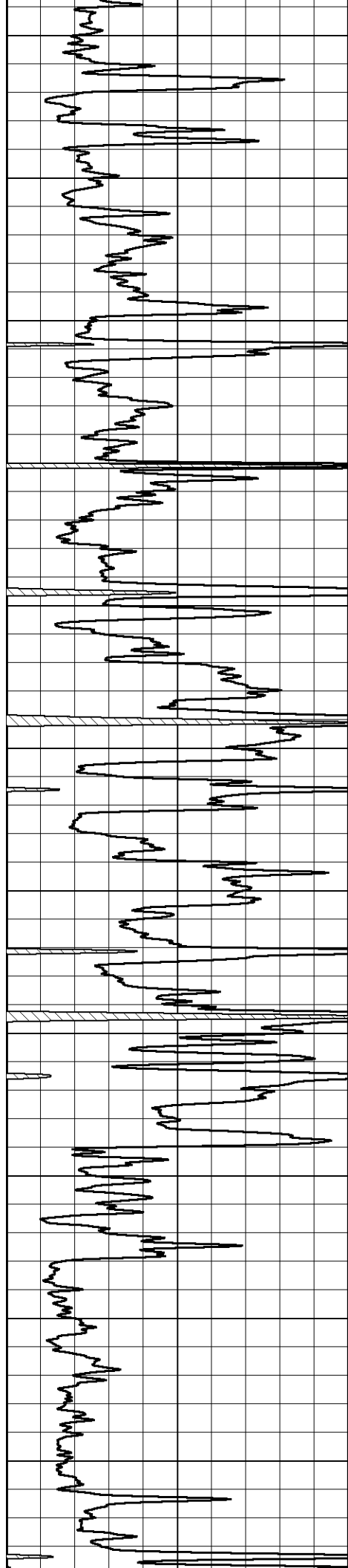
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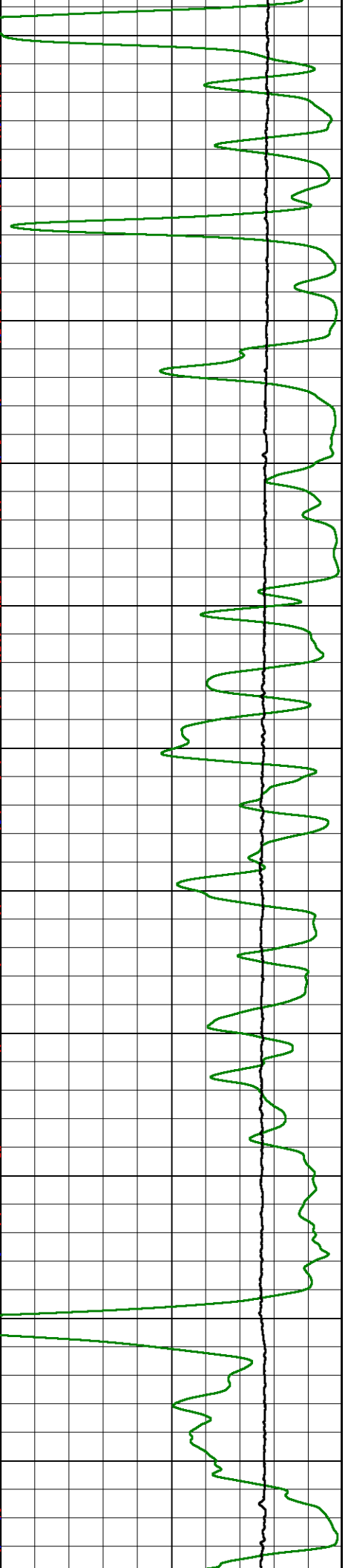
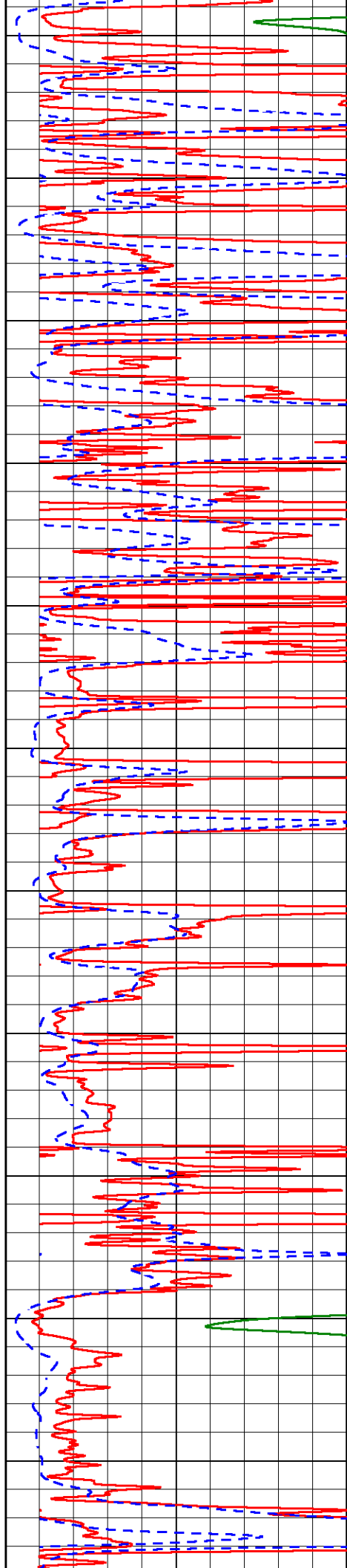
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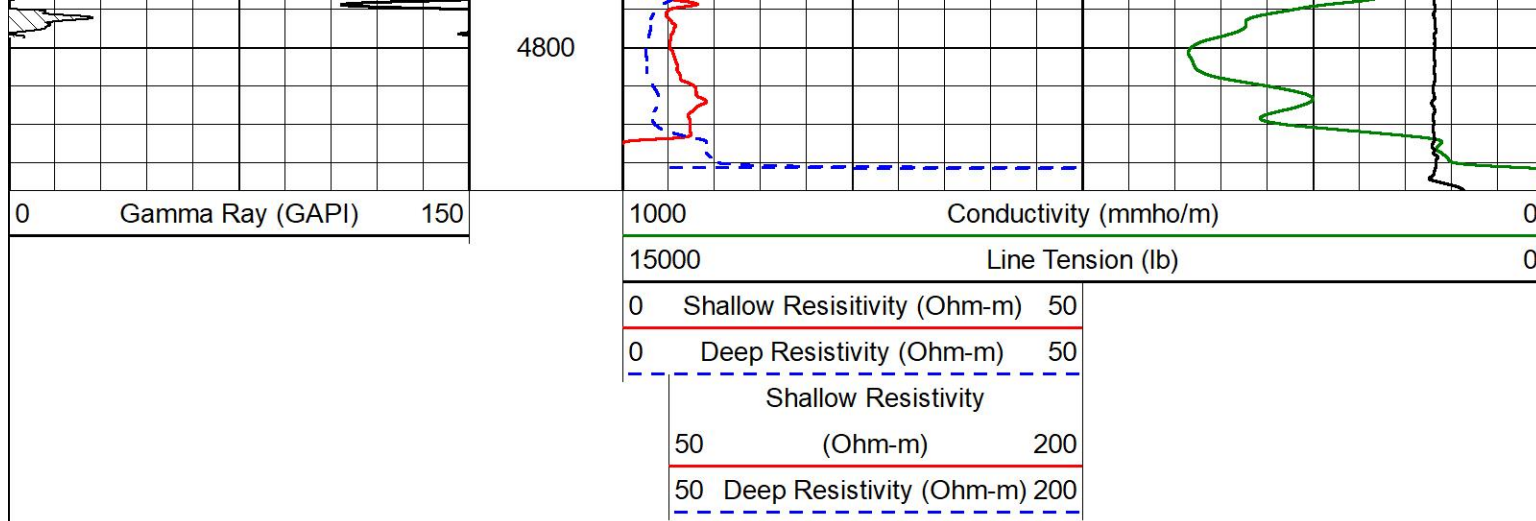
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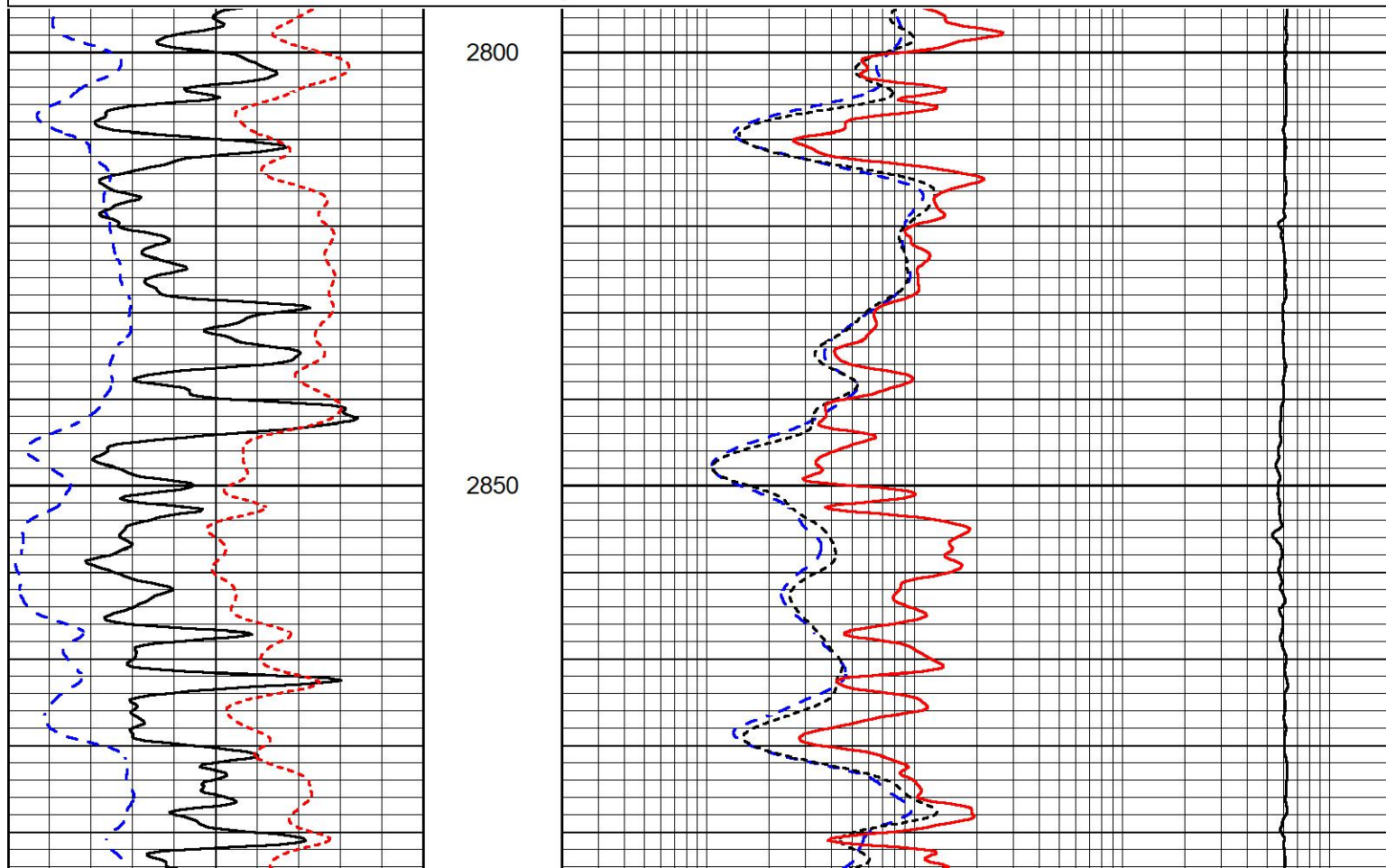


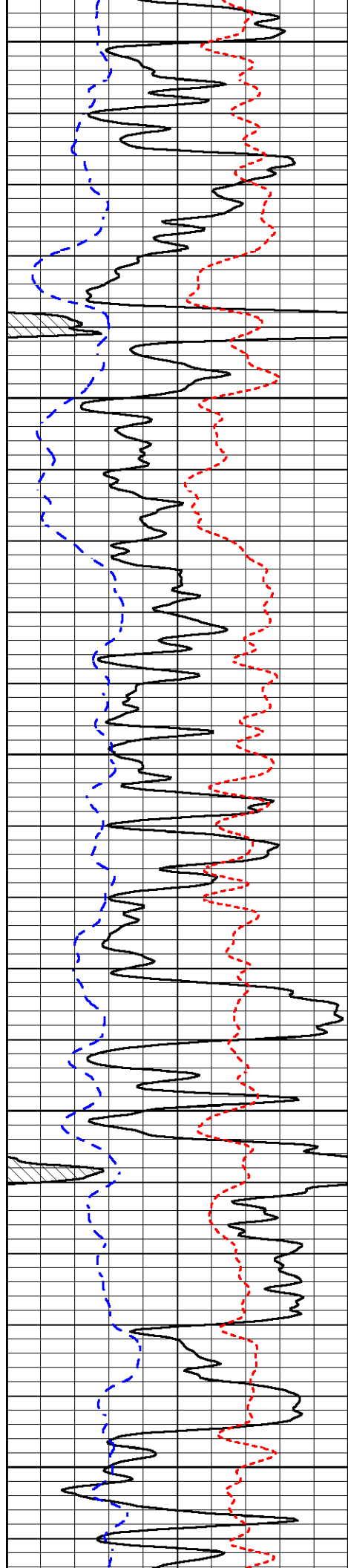
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File griffin_riley #1x.db
 Dataset Pathname StkMI/pass4.1
 Presentation Format _dil
 Dataset Creation Thu May 26 14:12:27 2022
 Charted by Depth in Feet scaled 1:240





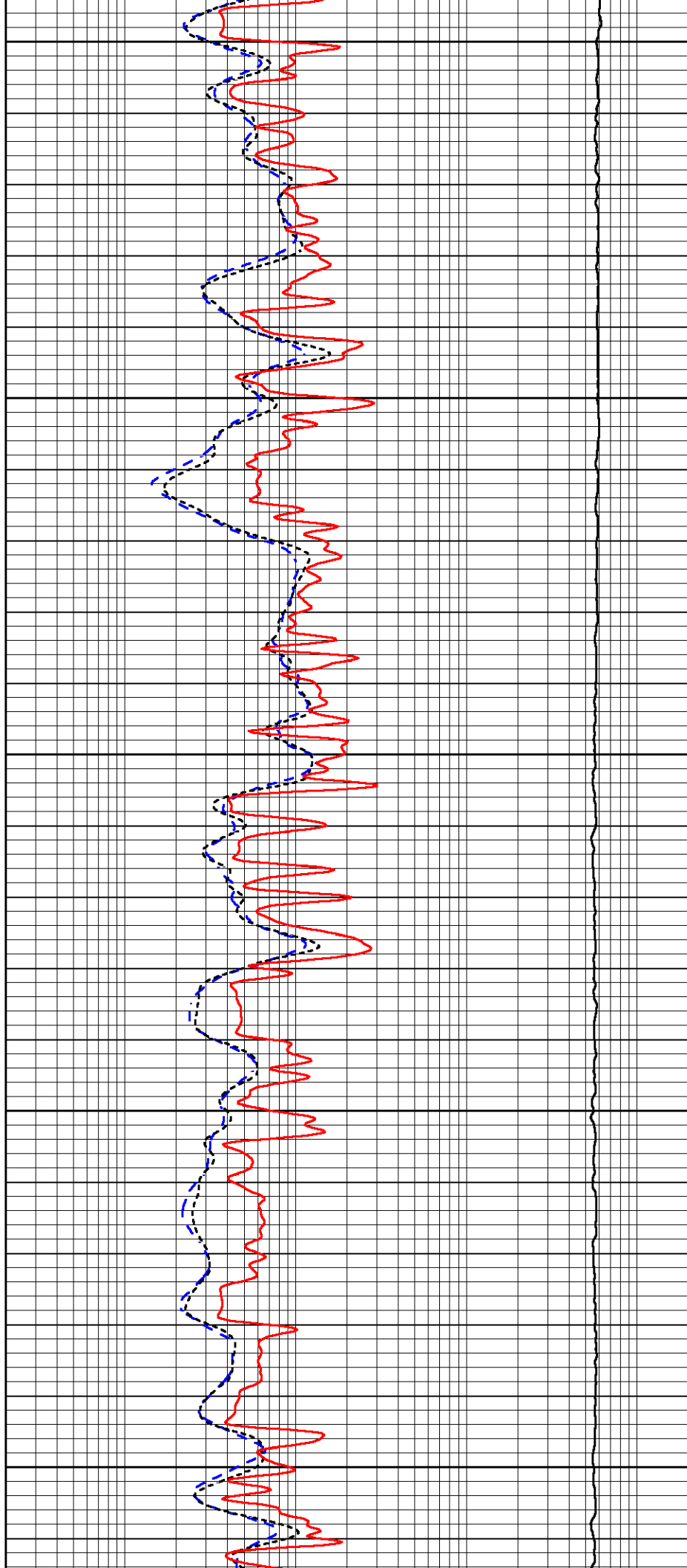
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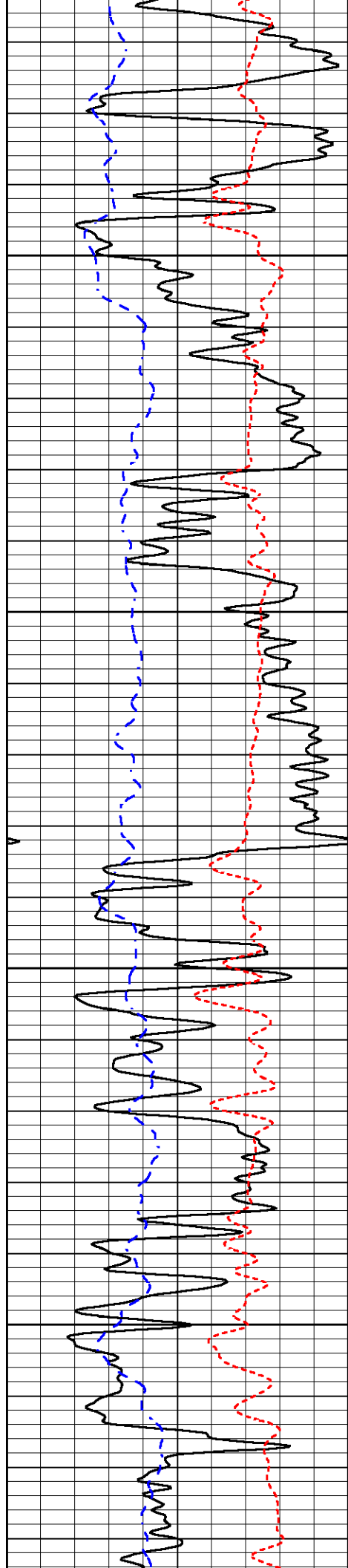
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3100



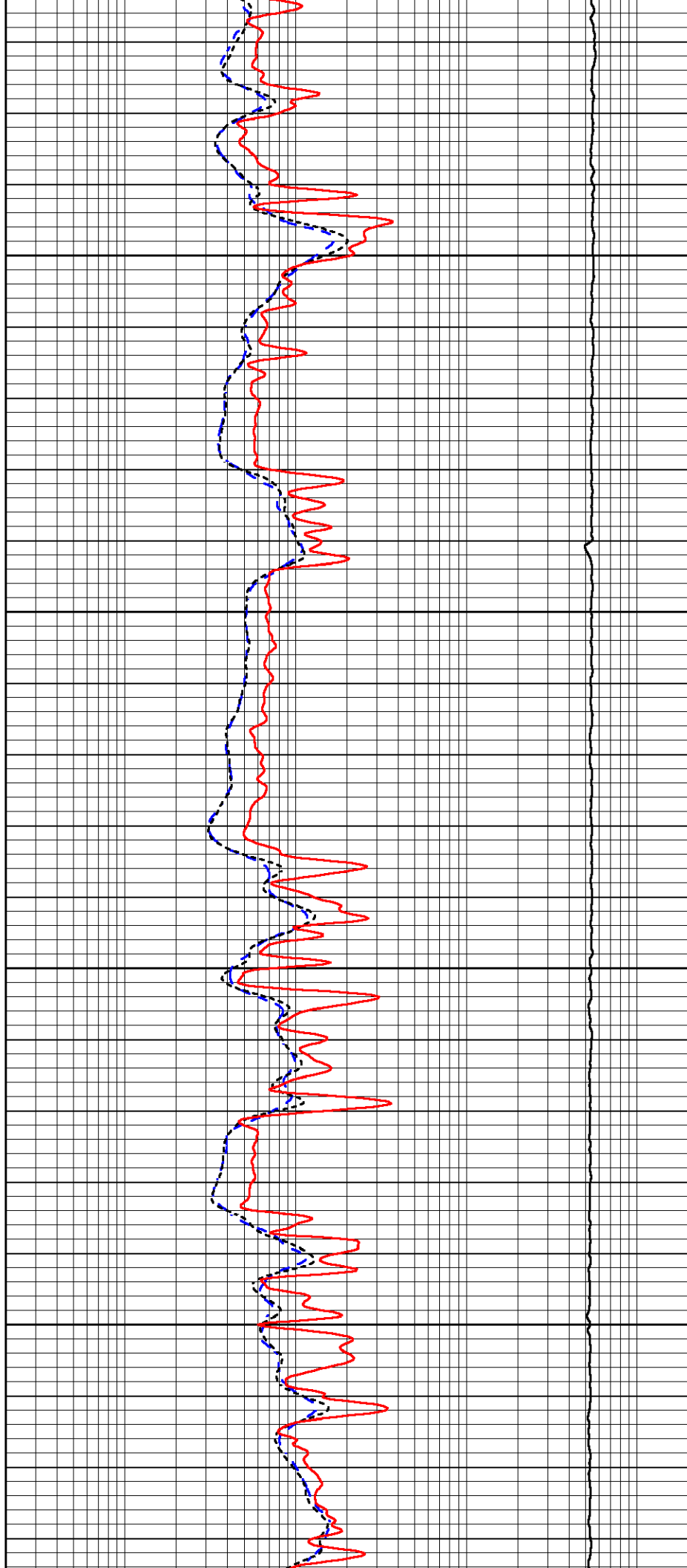


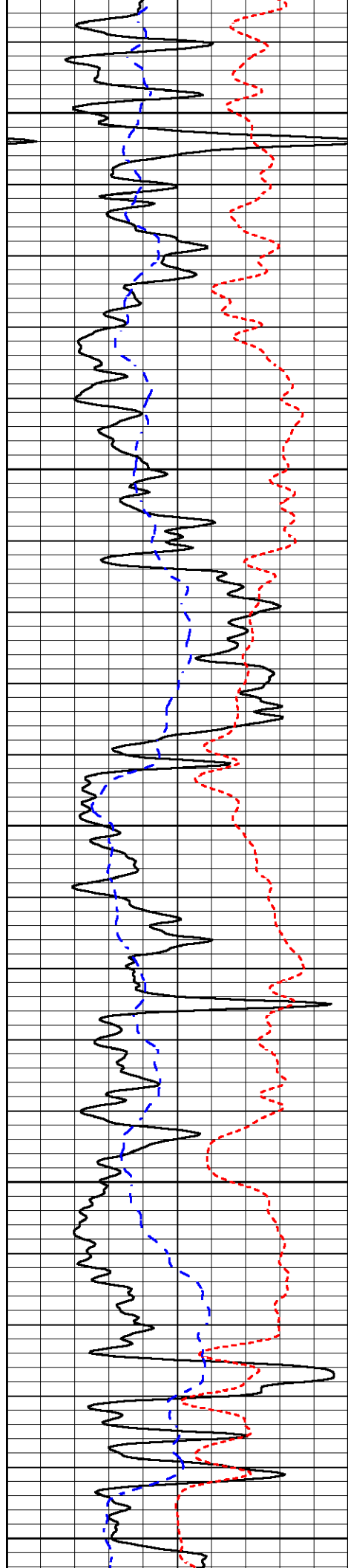
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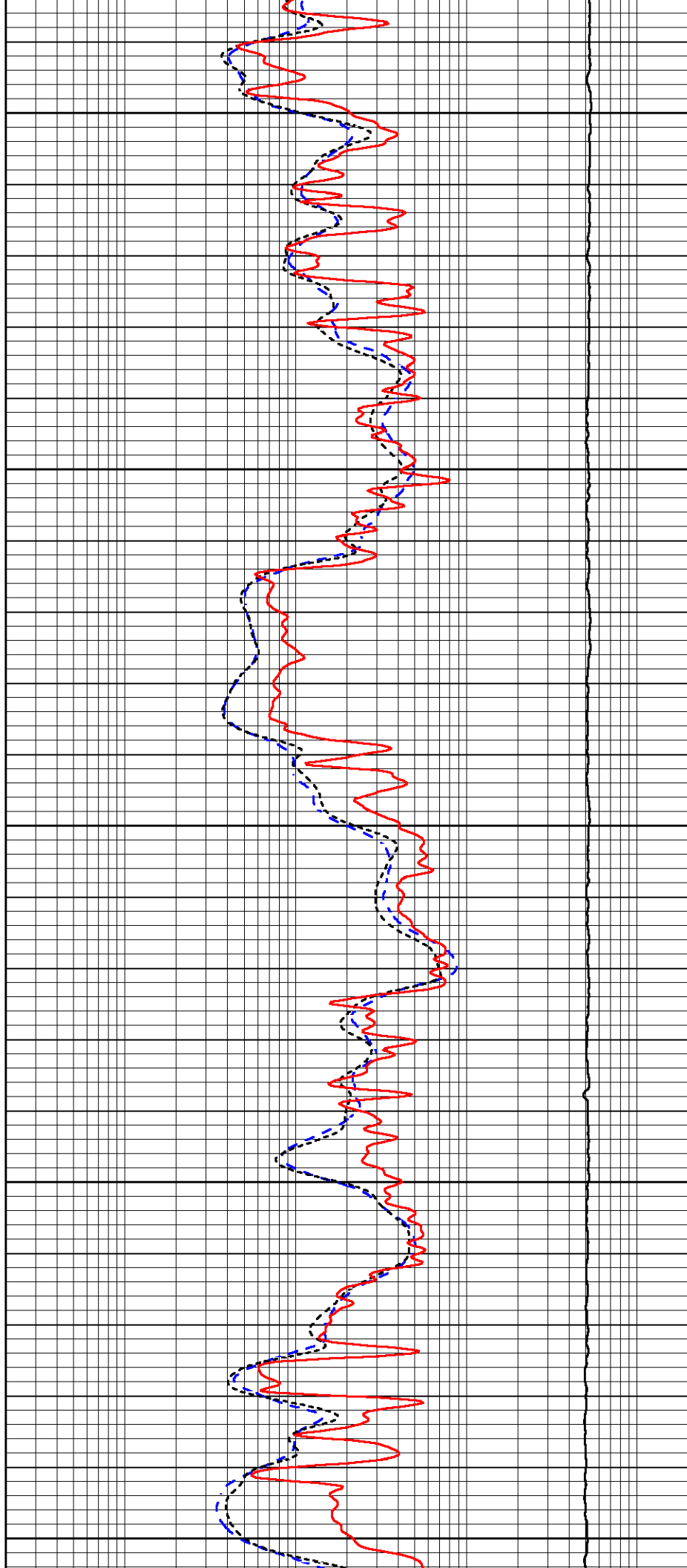
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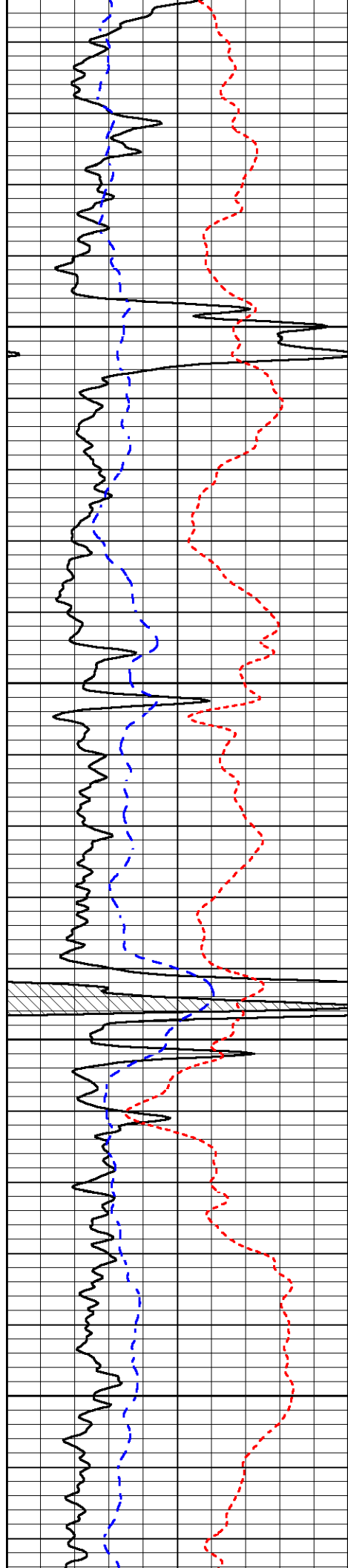
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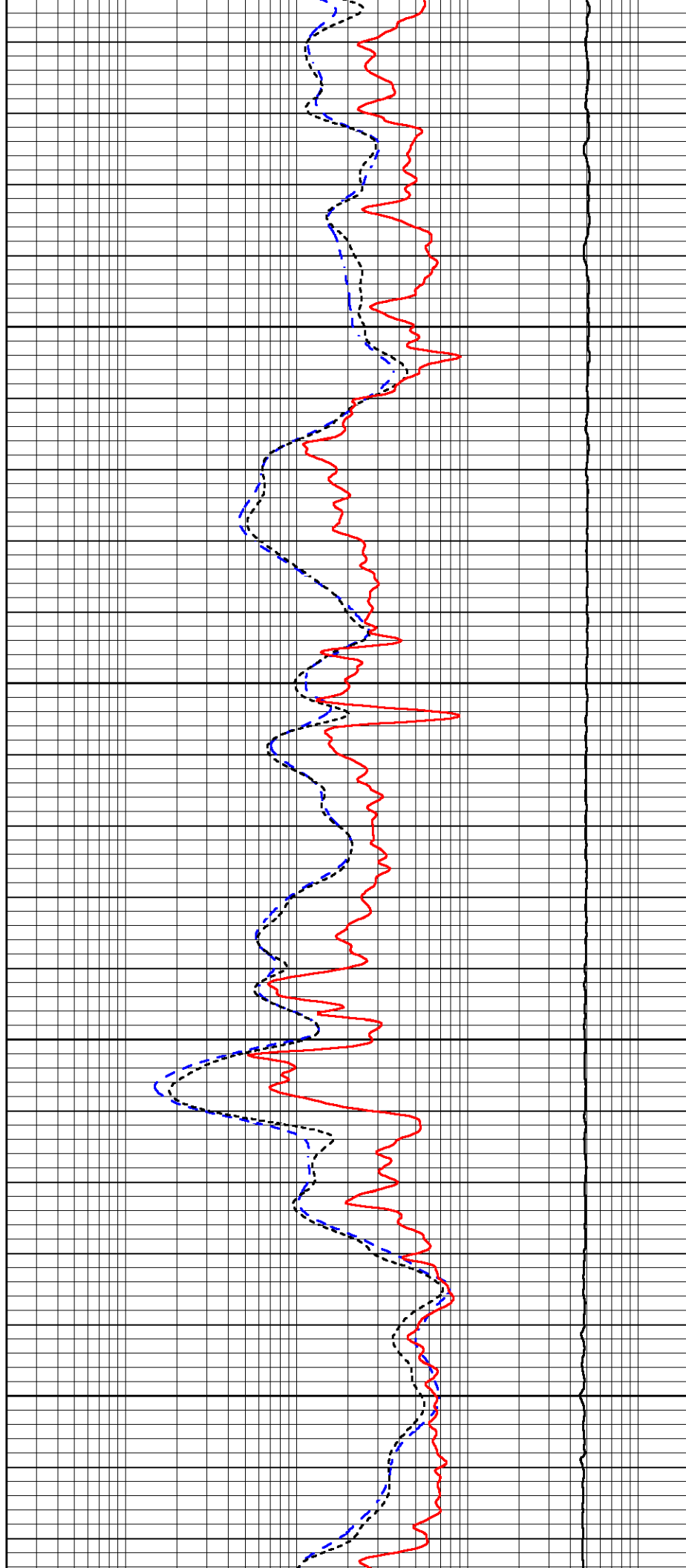


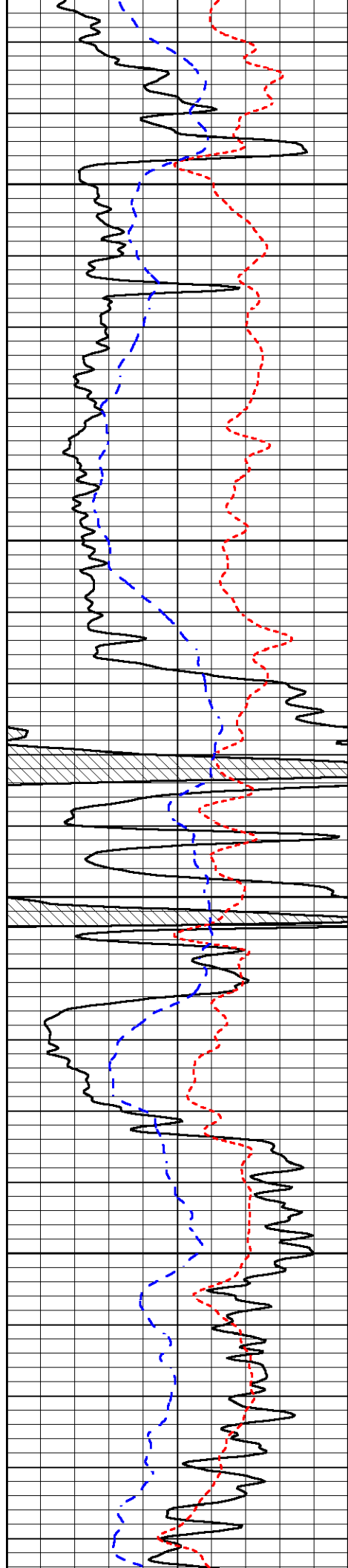
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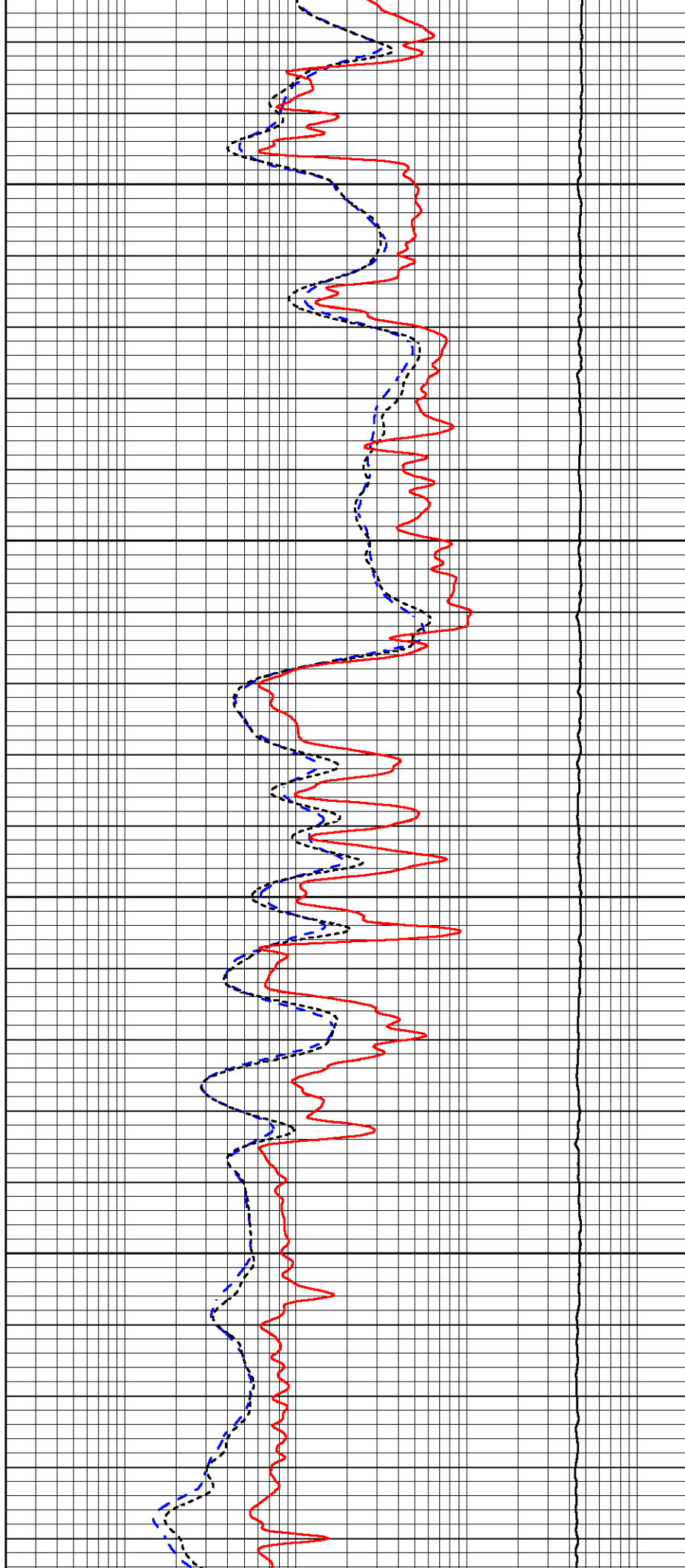


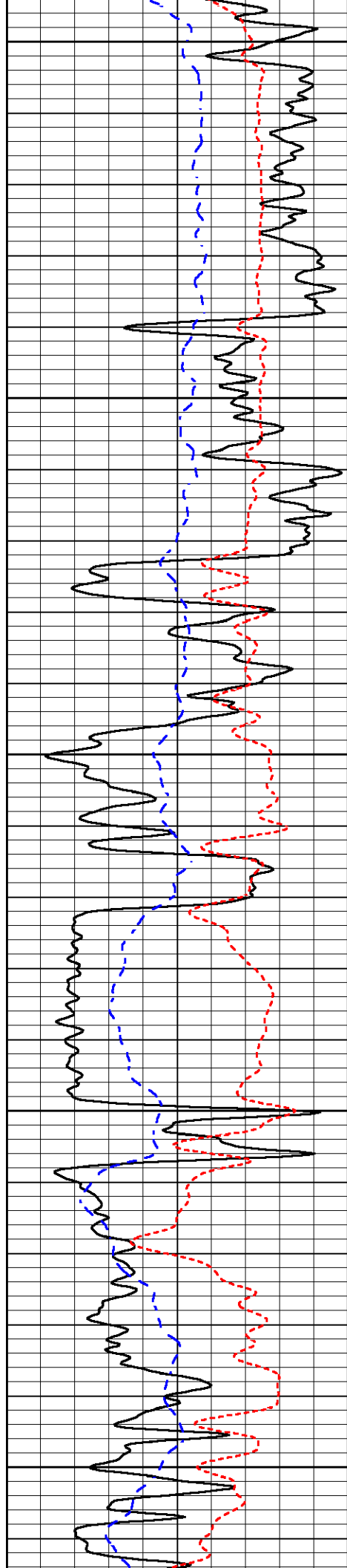
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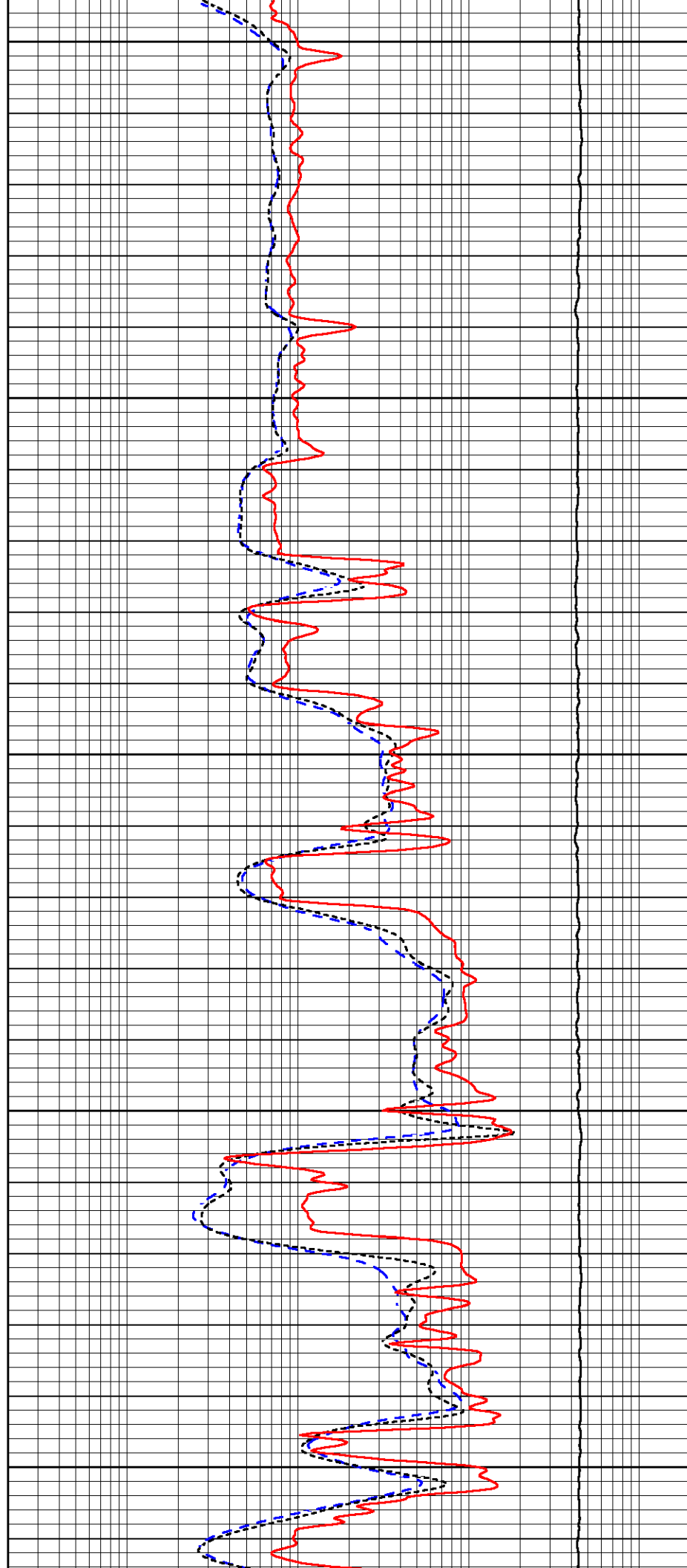
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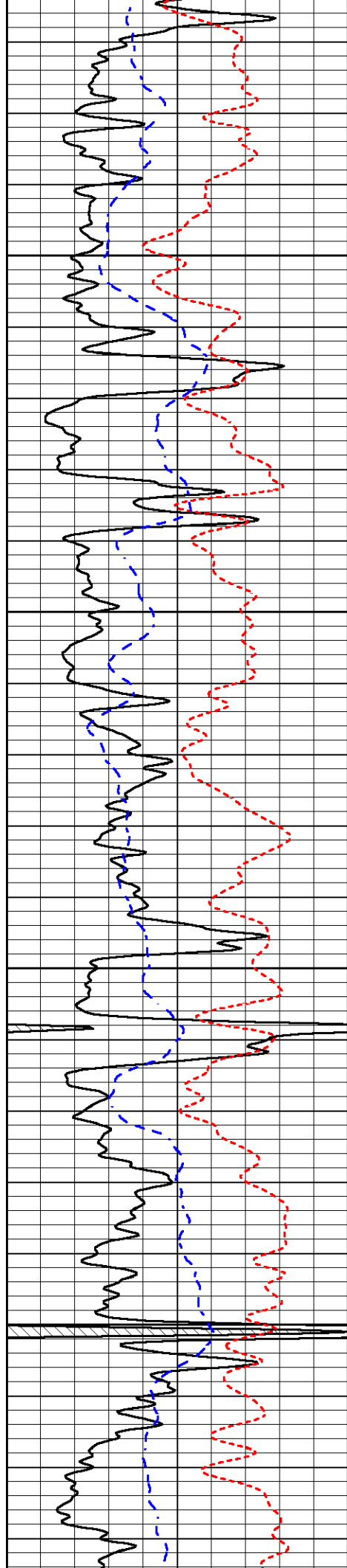
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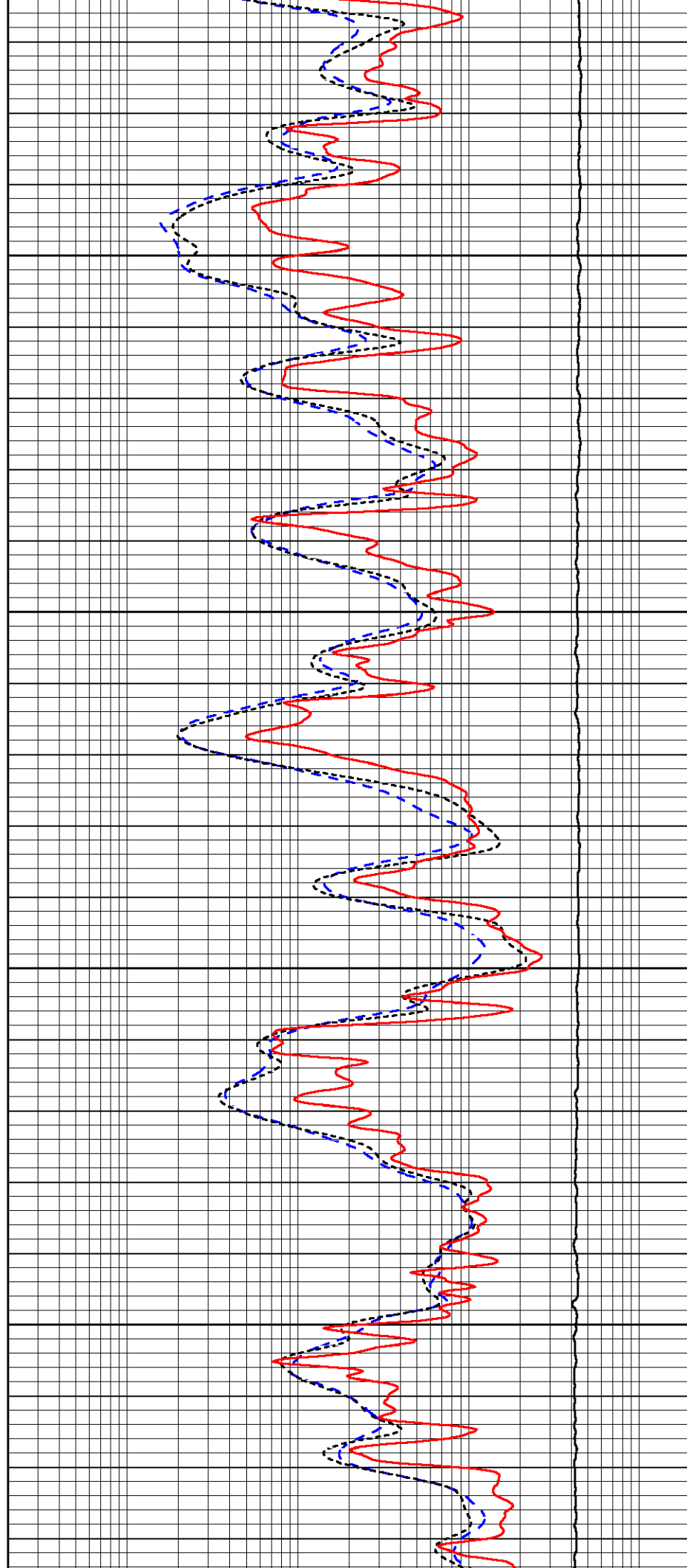


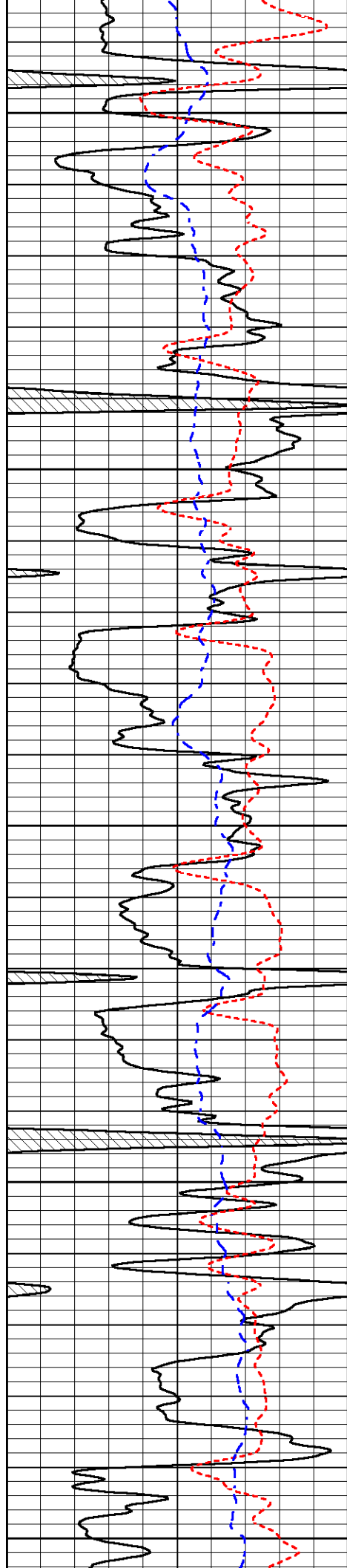
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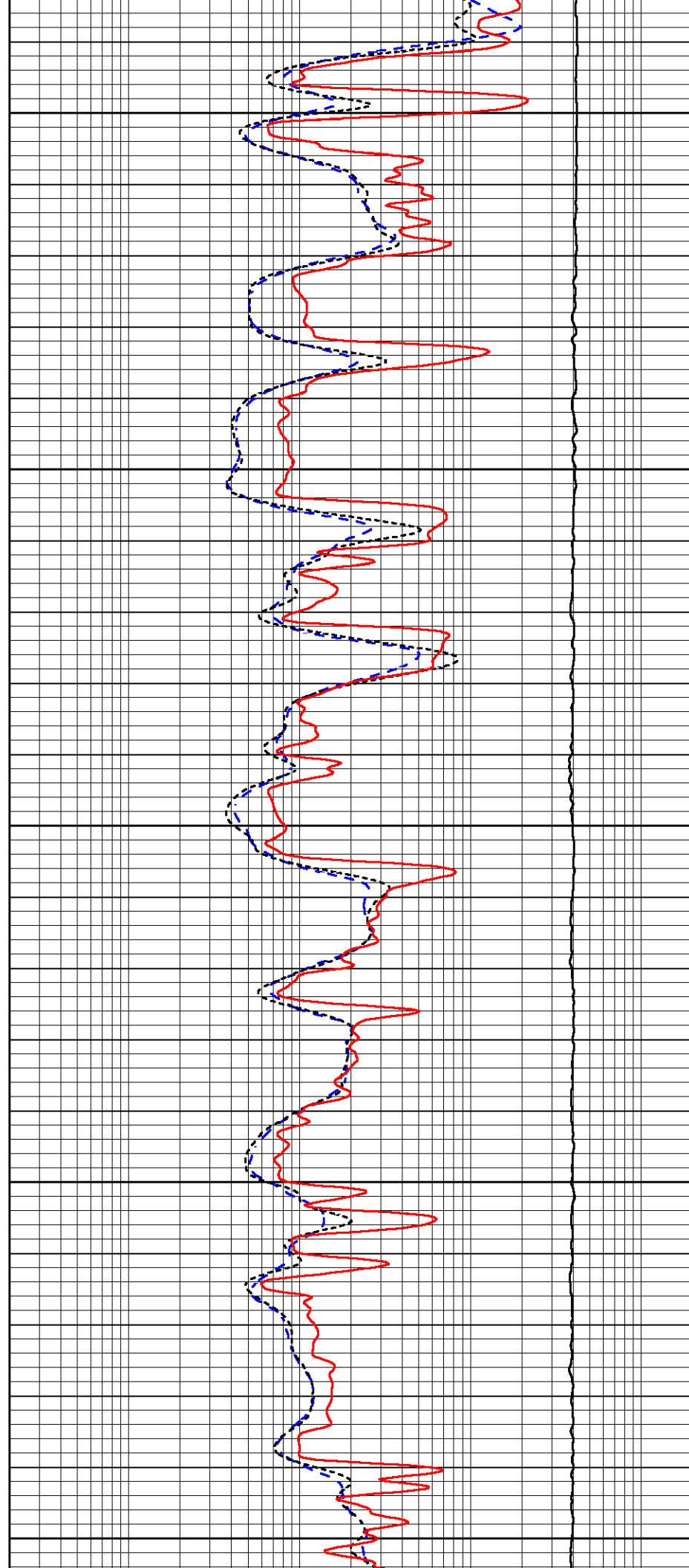
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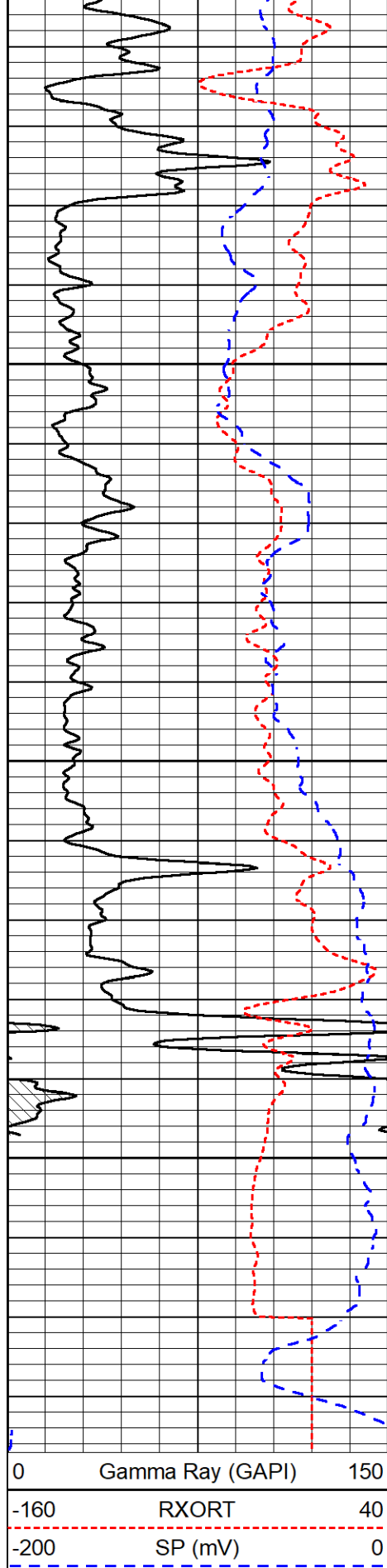
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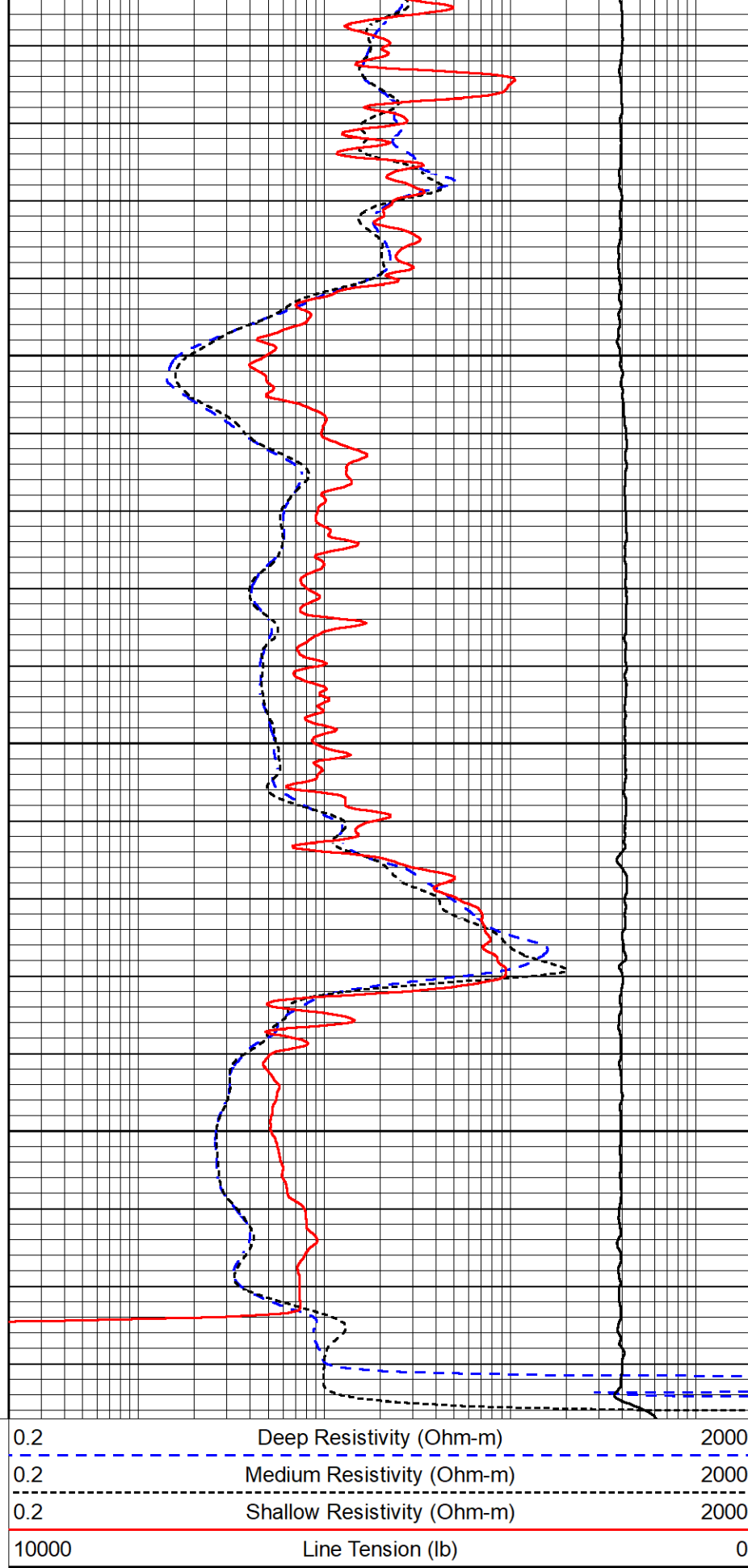




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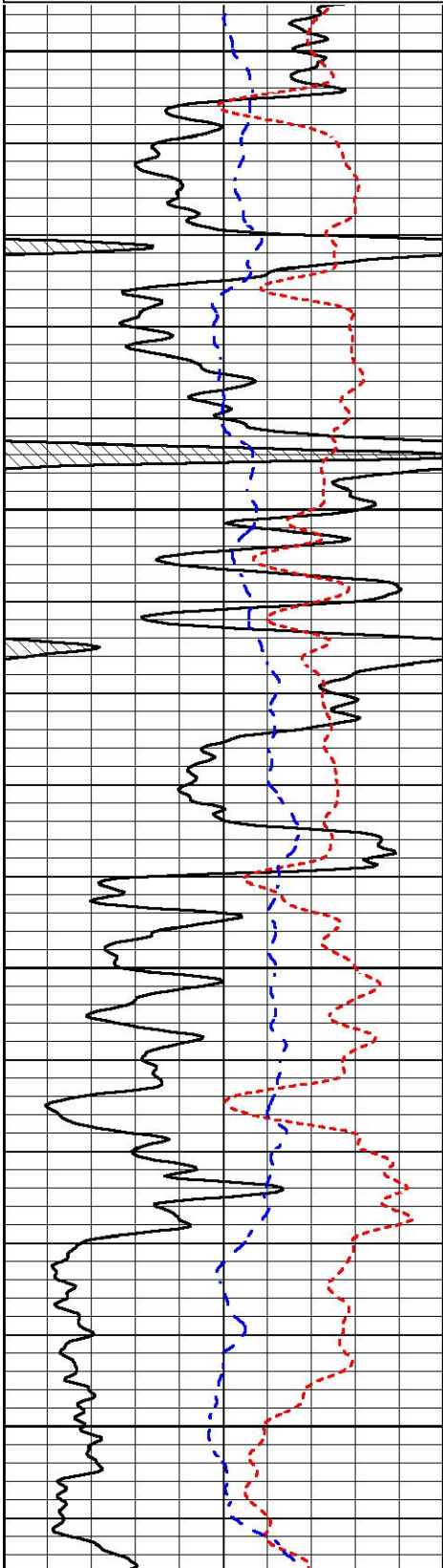


REPEAT SECTION

Database File griffin_riley #1x.db
 Dataset Pathname StkMI/pass3.1
 Presentation Format _dil
 Dataset Creation Thu May 26 13:31:13 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

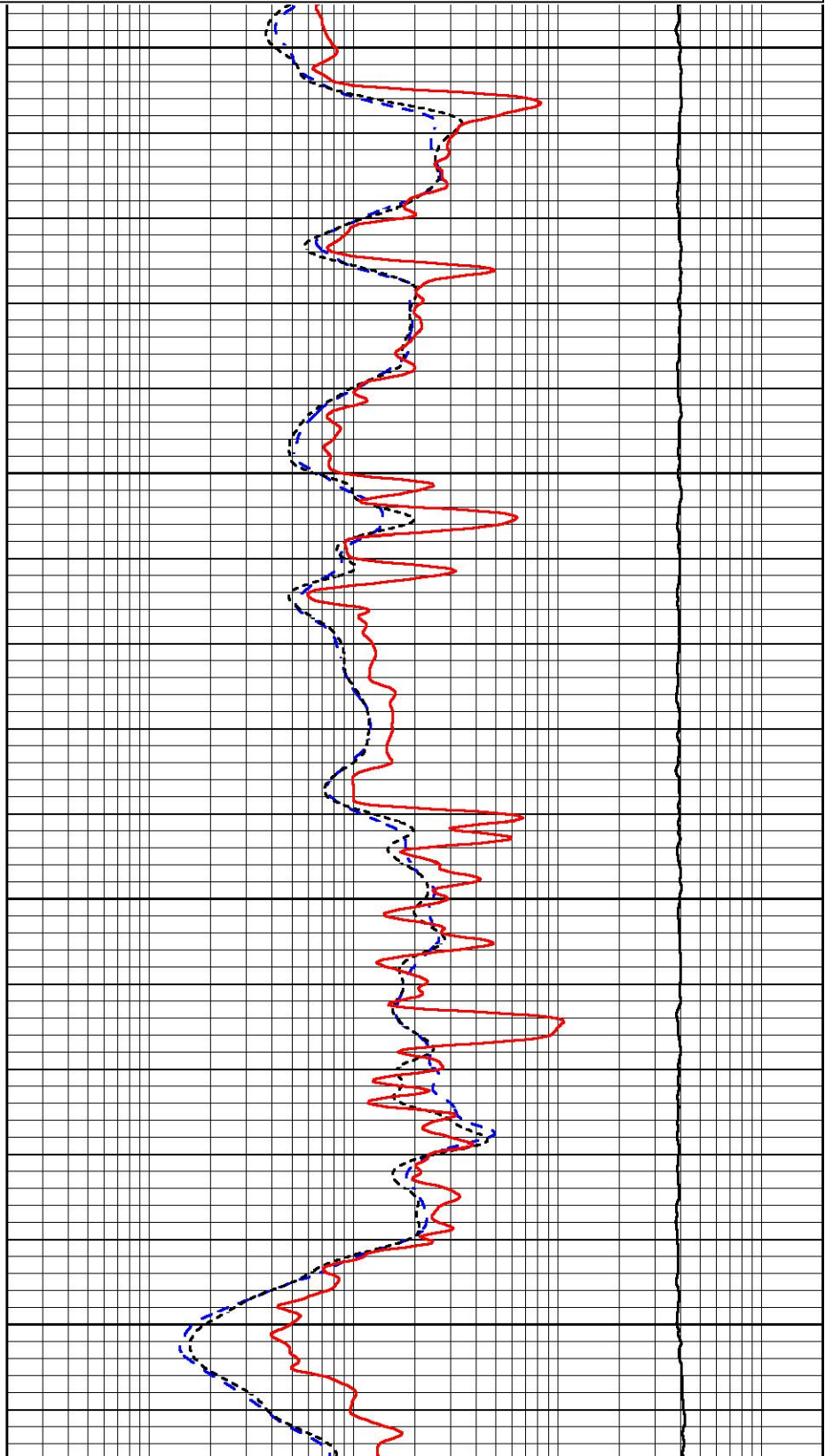


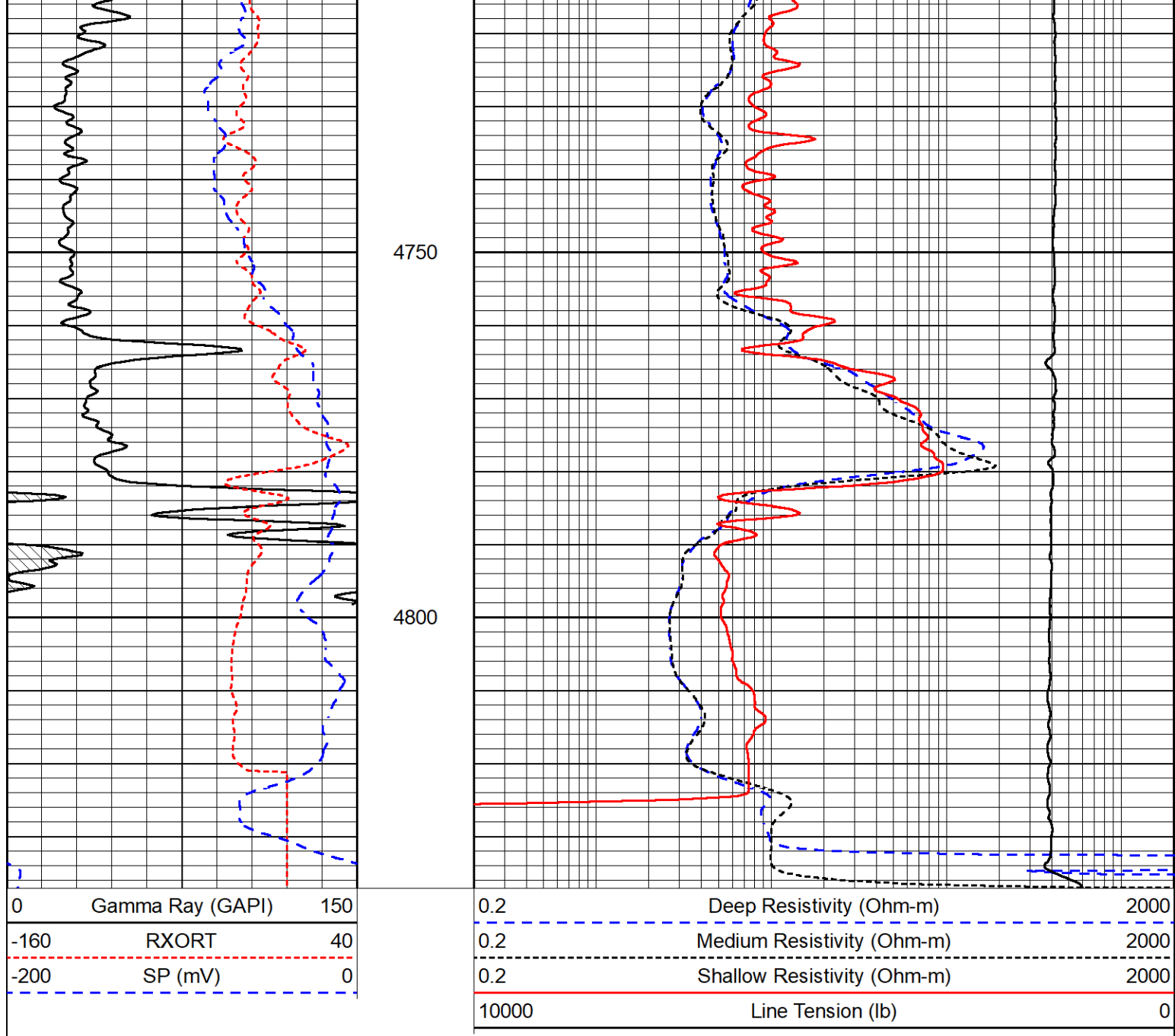
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Calibration Report

Database File griffin_riley #1x.db
 Dataset Pathname StkMI/pass4.1
 Dataset Creation Thu May 26 14:12:27 2022

Dual Induction Calibration Report

Serial-Model: 502 HT-M&W
 Surface Cal Performed: Wed Feb 9 17:39:00 2022

Loop:	Readings		References		Results	
	Air	Loop	Air	Loop	m	b
Deep	83.639	487.104	0.000	183.000	0.454	-35.000
Medium	113.335	1585.690	0.000	442.000	0.350	-11.000

Microlog Calibration Report

Serial-Model: 402-PSIML

Performed:

Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.1000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	65.0000	-59.8000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
Source #: 20762B
Master Calibration Performed: Fri Apr 22 07:18:08 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.600	g/cc	1556.73	5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.467		
	Size		Reading		
Small Ring	4.00	in	1.74		
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: Mon Jan 24 19:14:46 2022

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



Company Charles N. Griffin
Well Riley #1X
Field Moffett
County Barber

