

DUAL INDUCTION LOG

MIDWEST WIRELINE

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	
N2 N2 N2 330 FNL & 2640 FWL		CNL/CDL MEL	
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	250		
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			DIL-M&W (501 HT)	18.25	3.50	220.00
	15.50						
CILD	8.33						
	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 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 180	degF 90	Off	ft 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



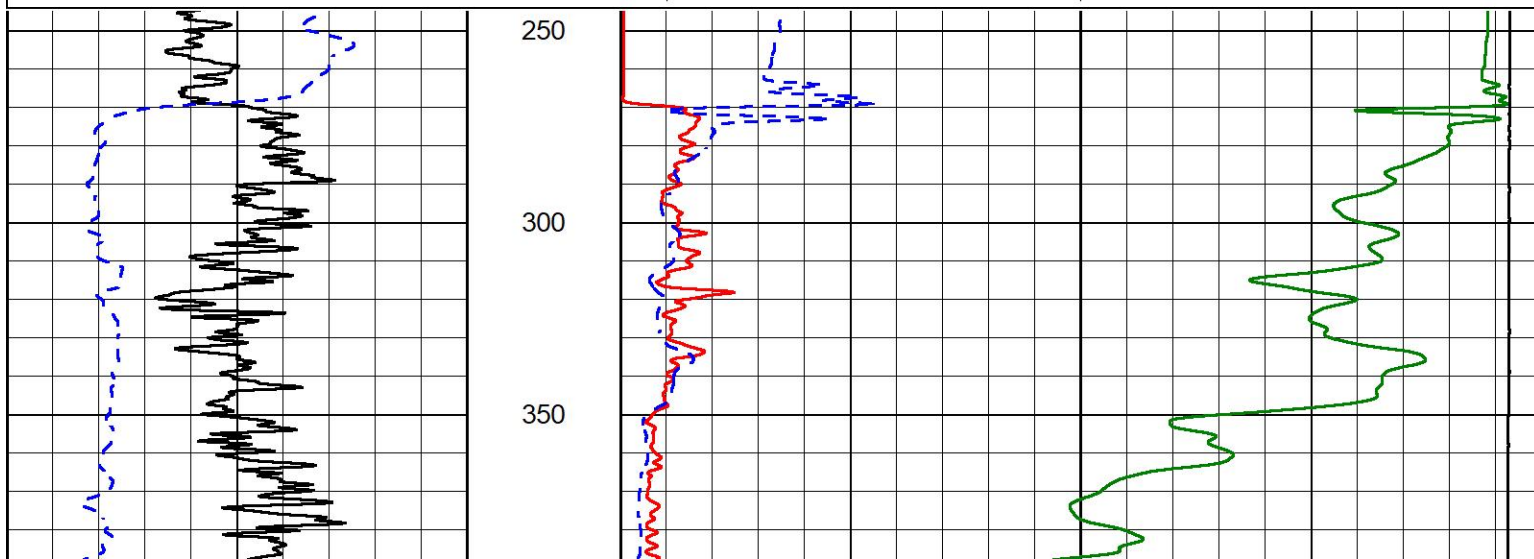
MIDWEST WIRELINE

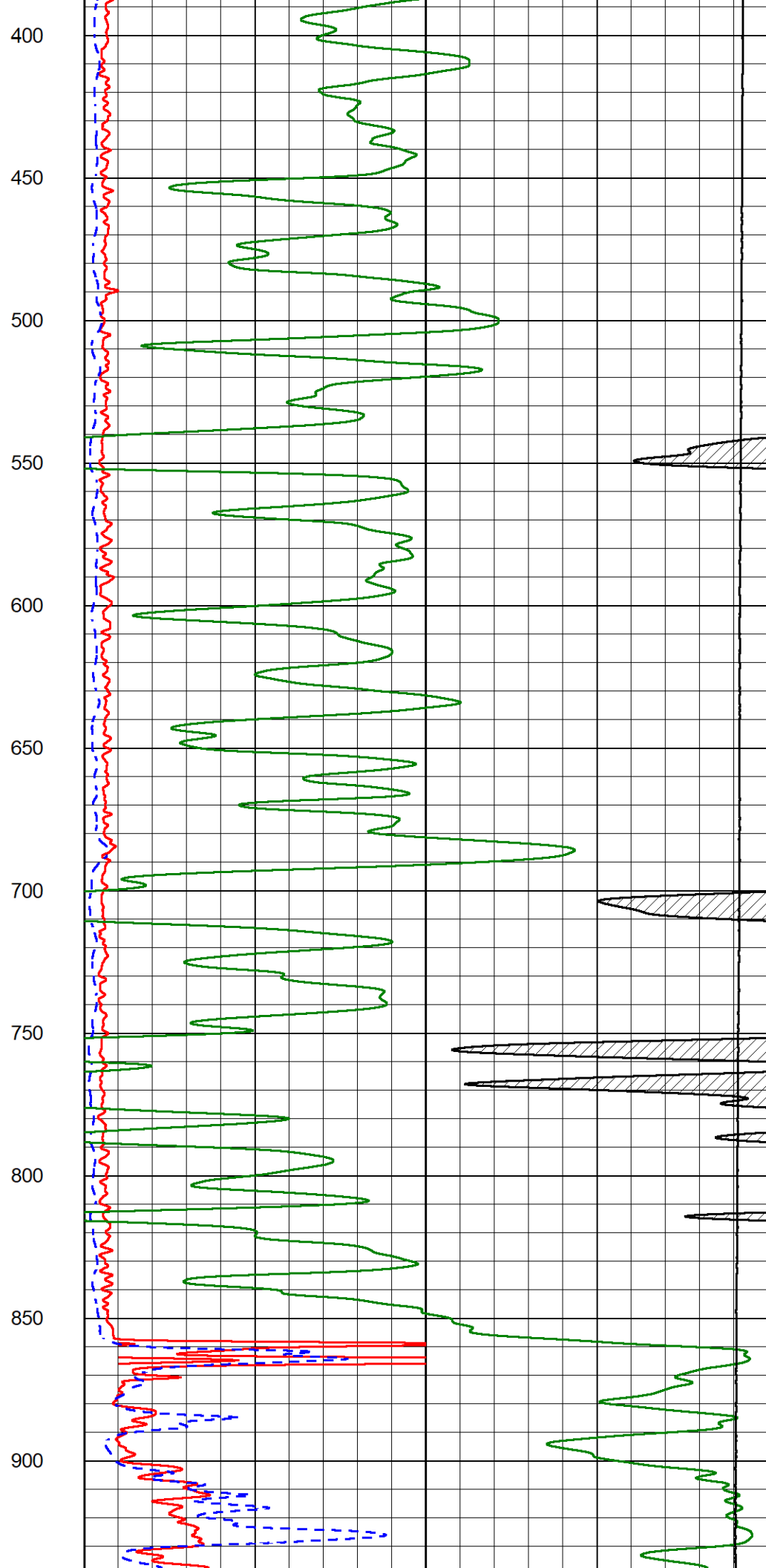
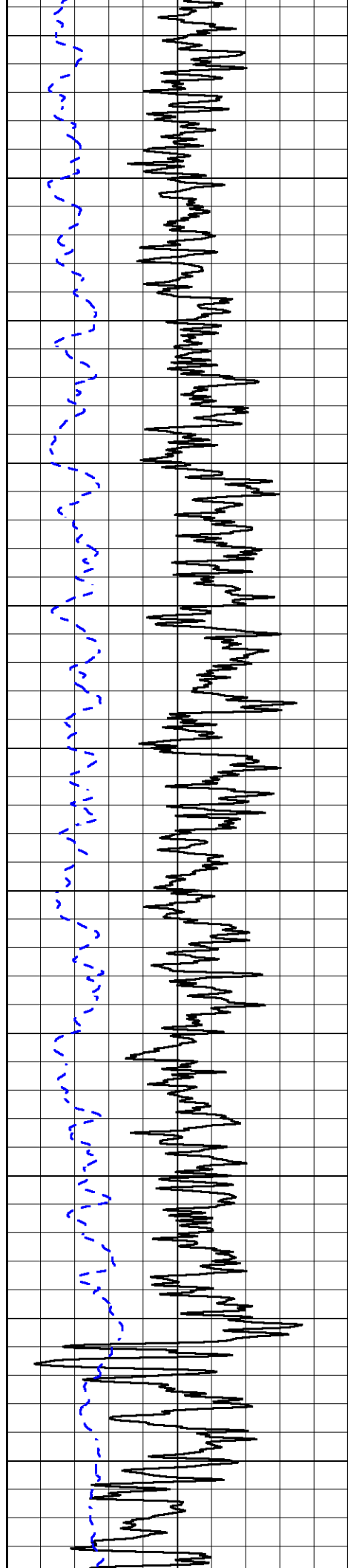
2" SCALE RESISTIVITY

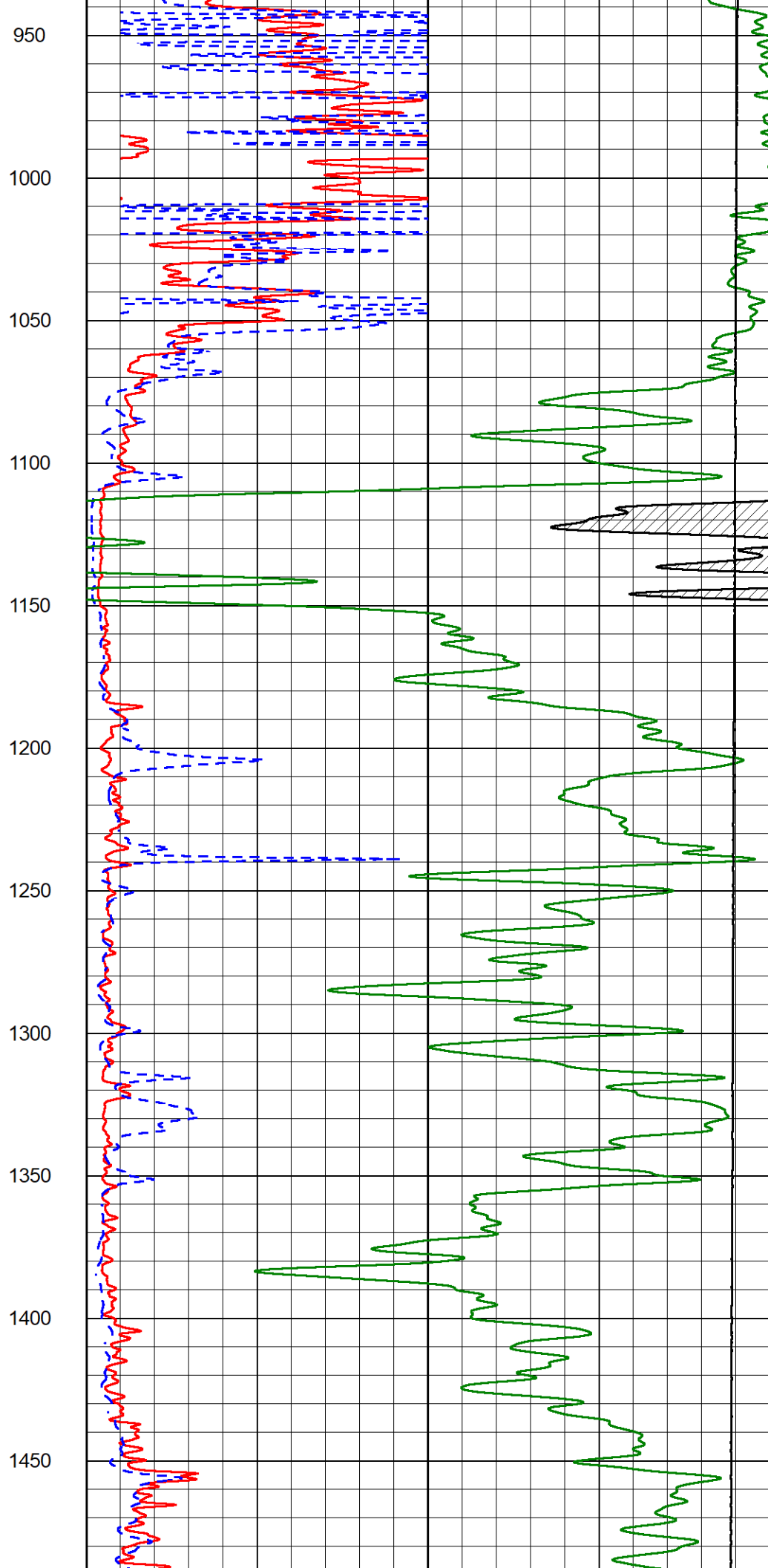
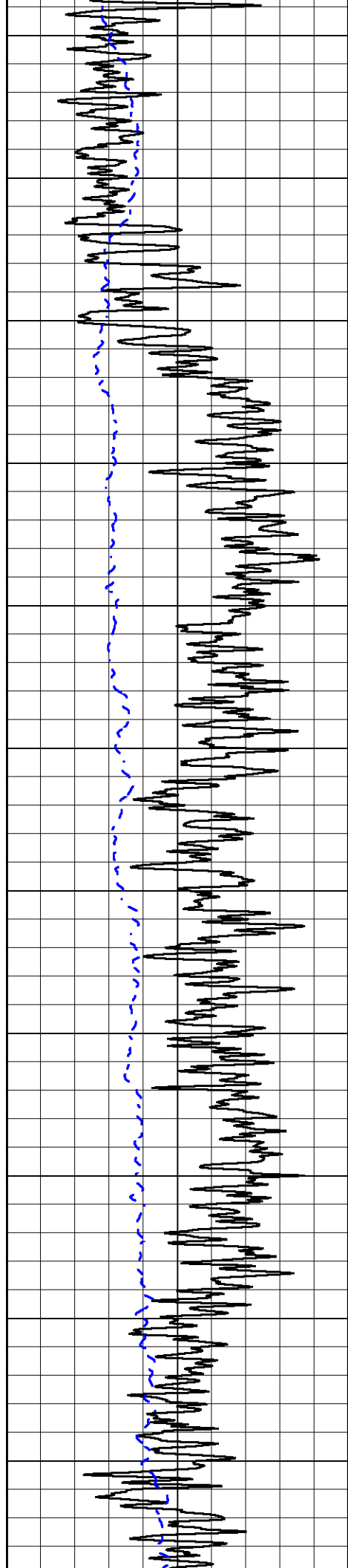
MAIN PASS

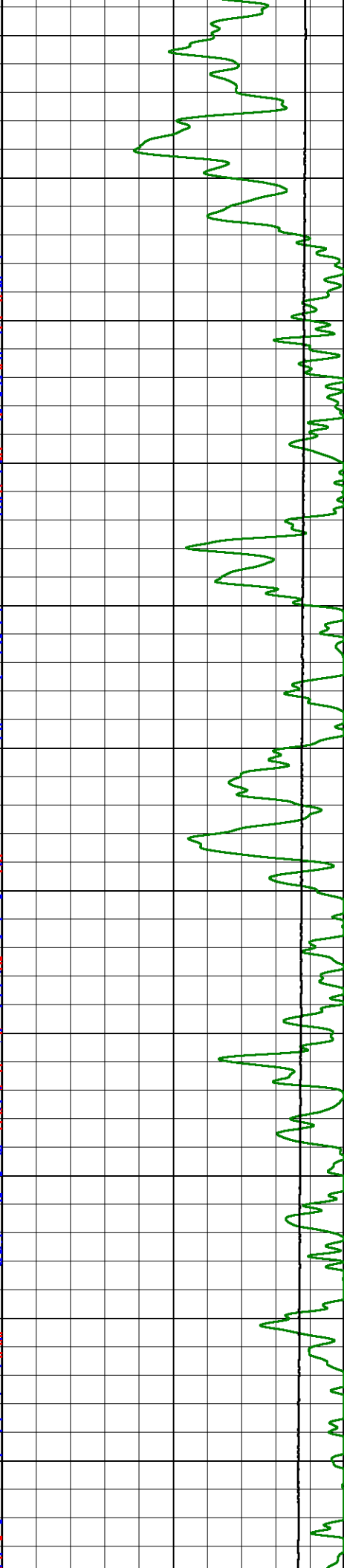
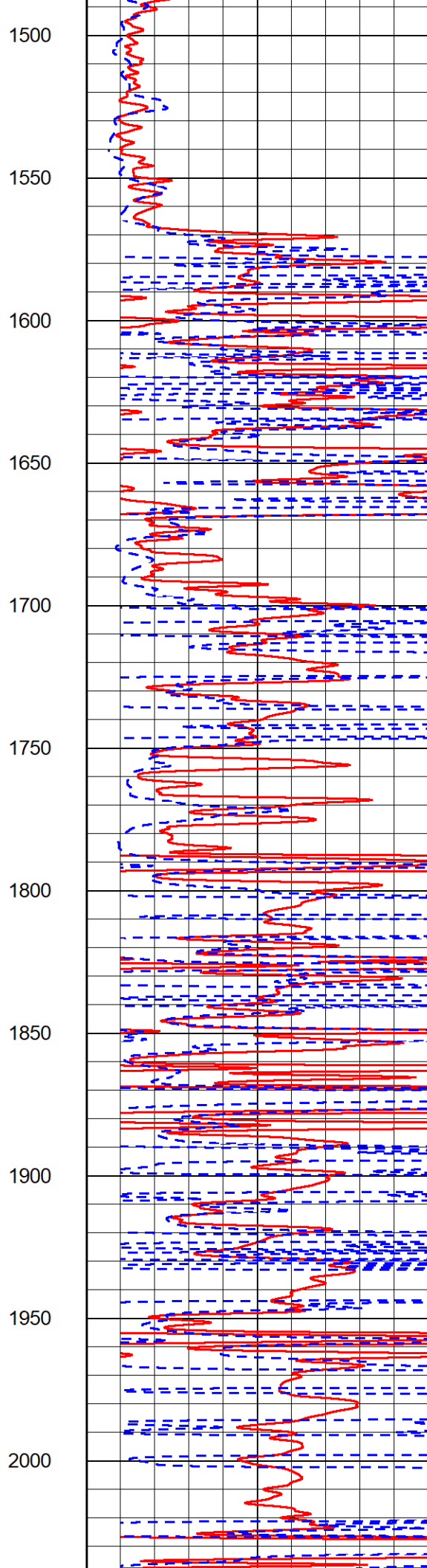
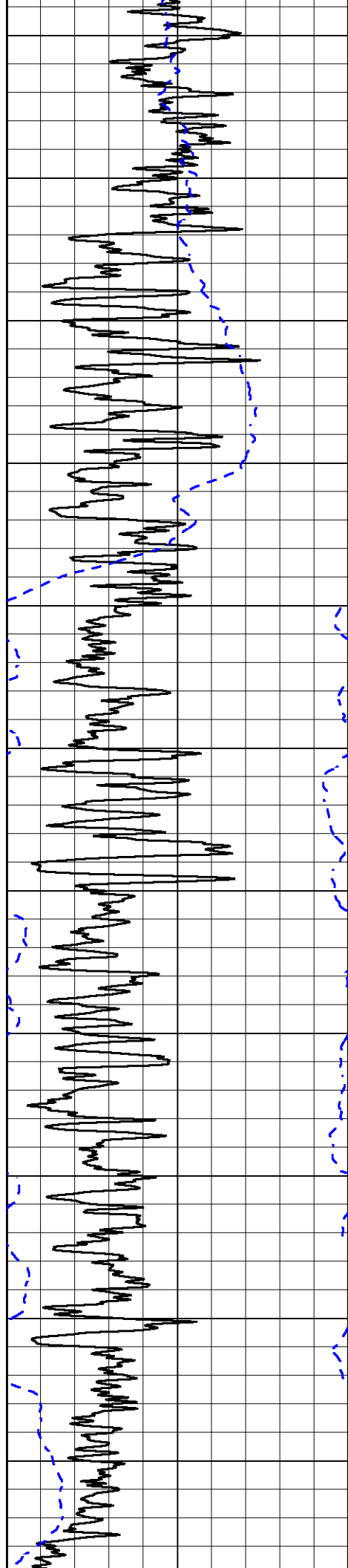
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Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Sun Oct 23 17:18:20 2022
Charted by Depth in Feet scaled 1:600

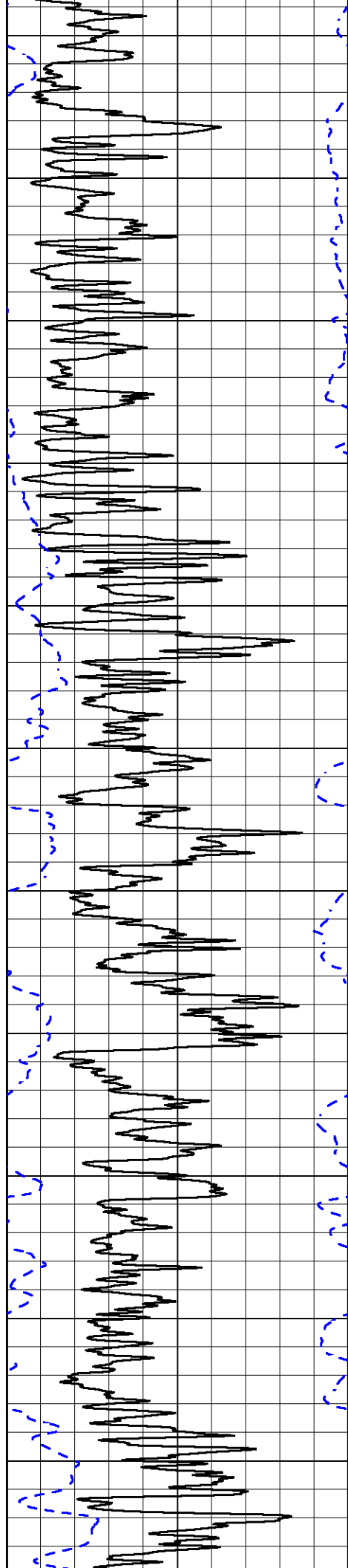
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-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200











2050

2100

2150

2200

2250

2300

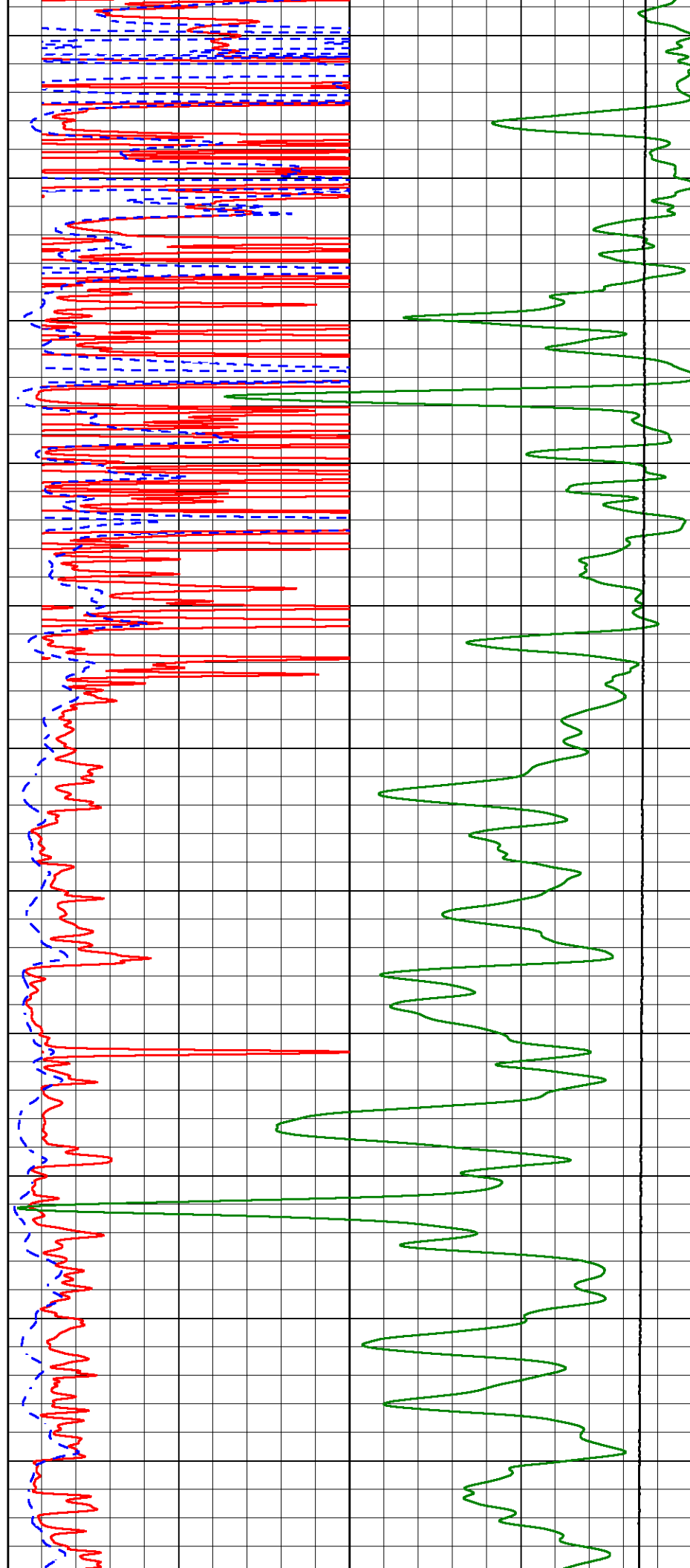
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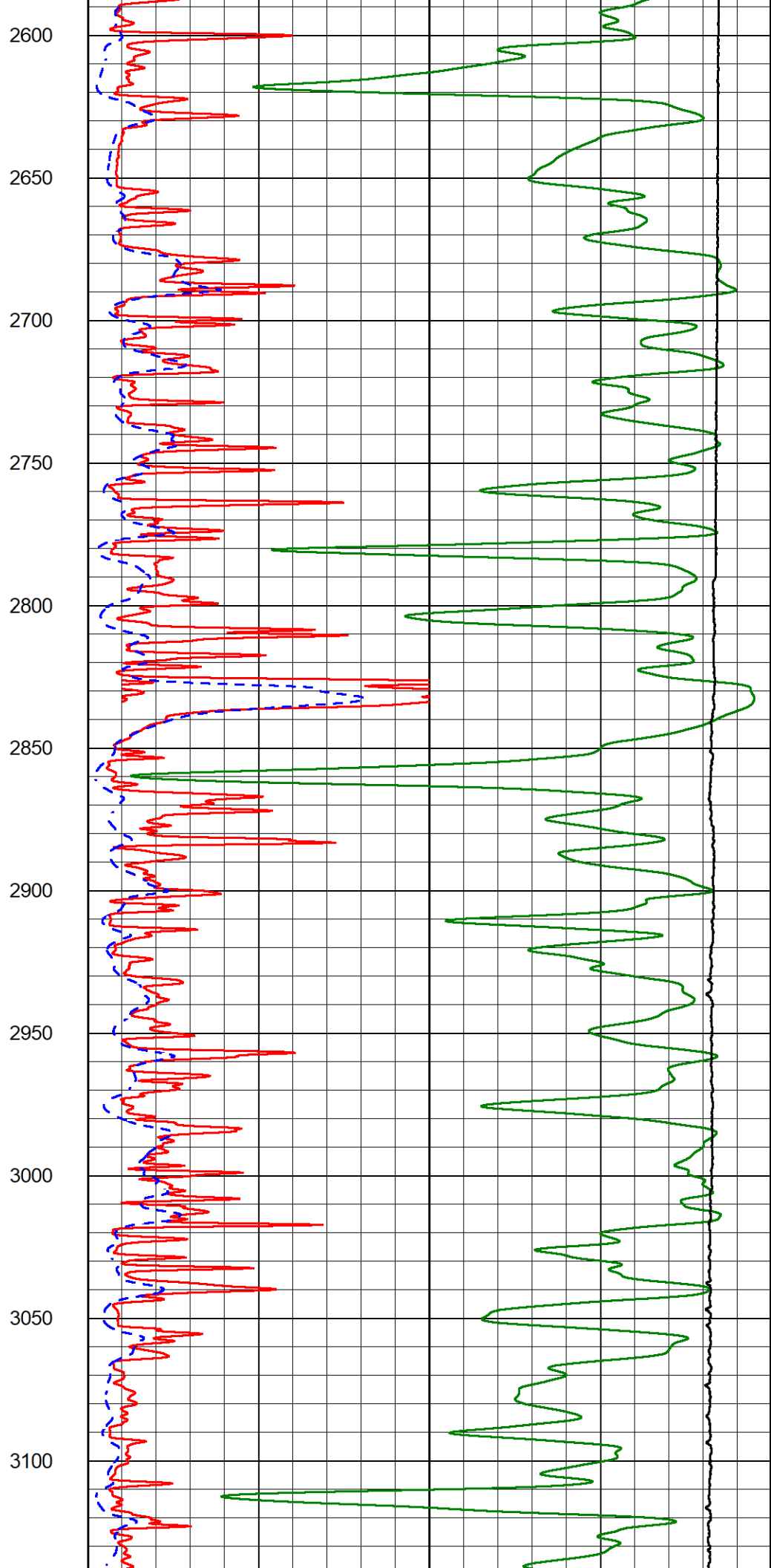
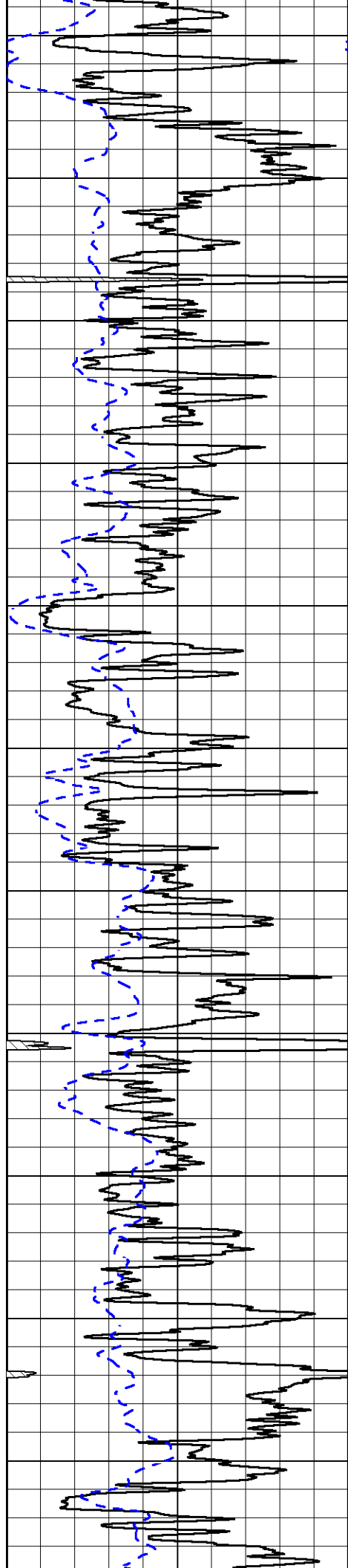
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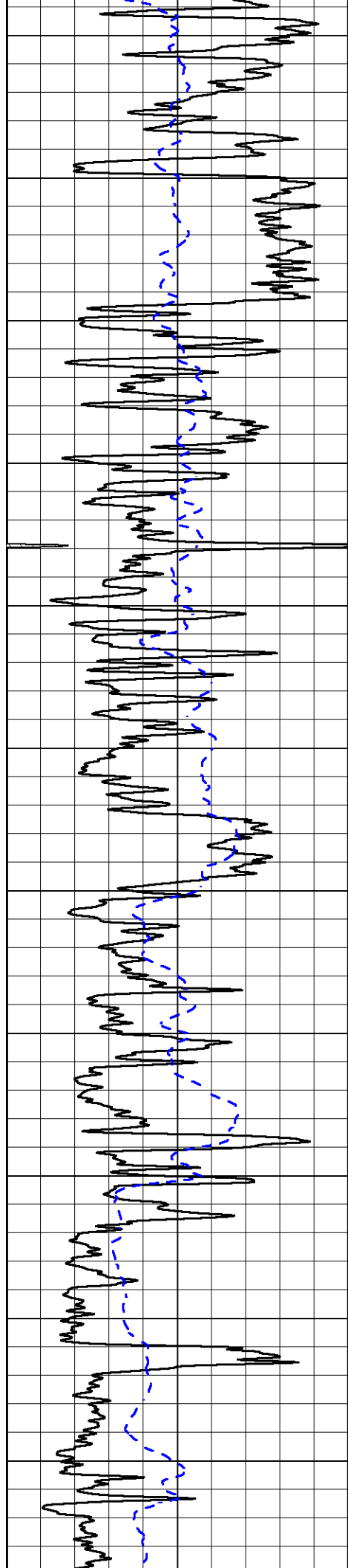
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2500

2550







3150

3200

3250

3300

3350

3400

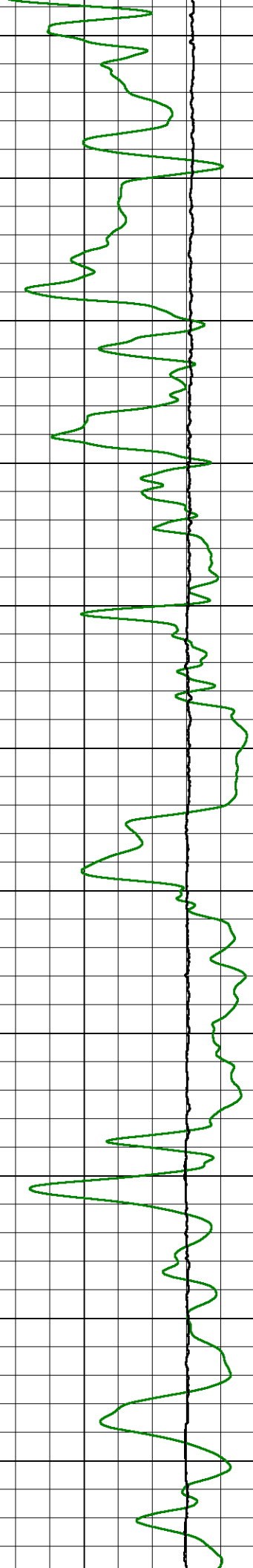
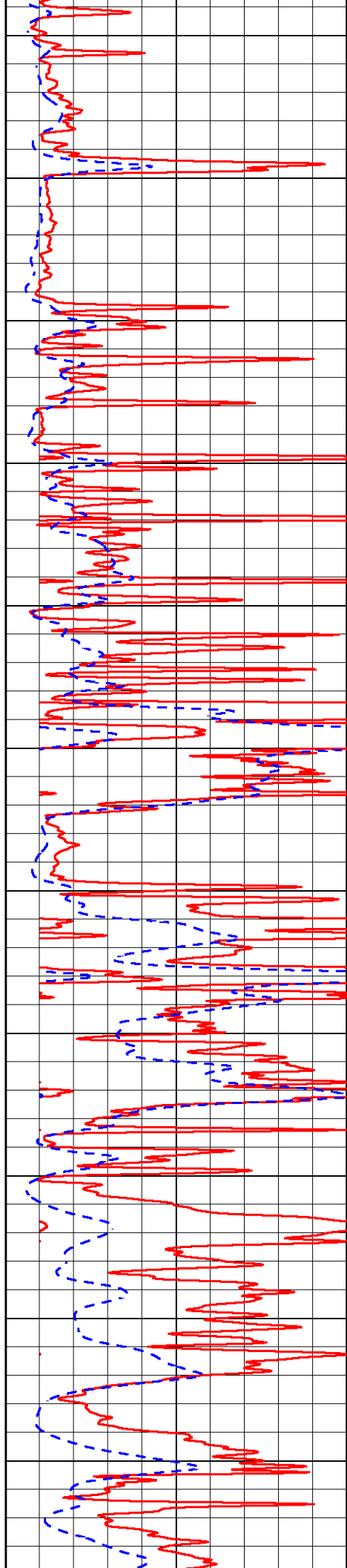
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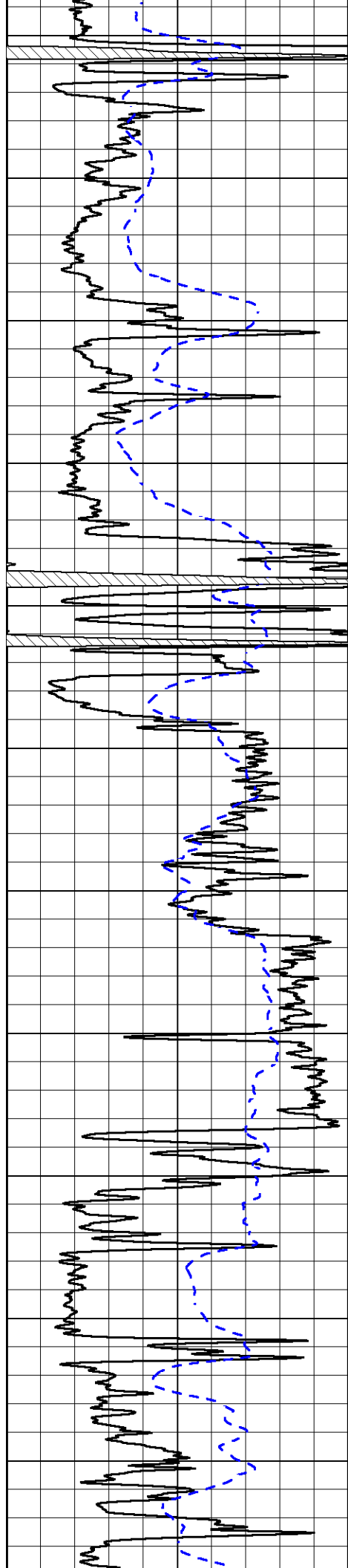
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3550

3600

3650





3700

3750

3800

3850

3900

3950

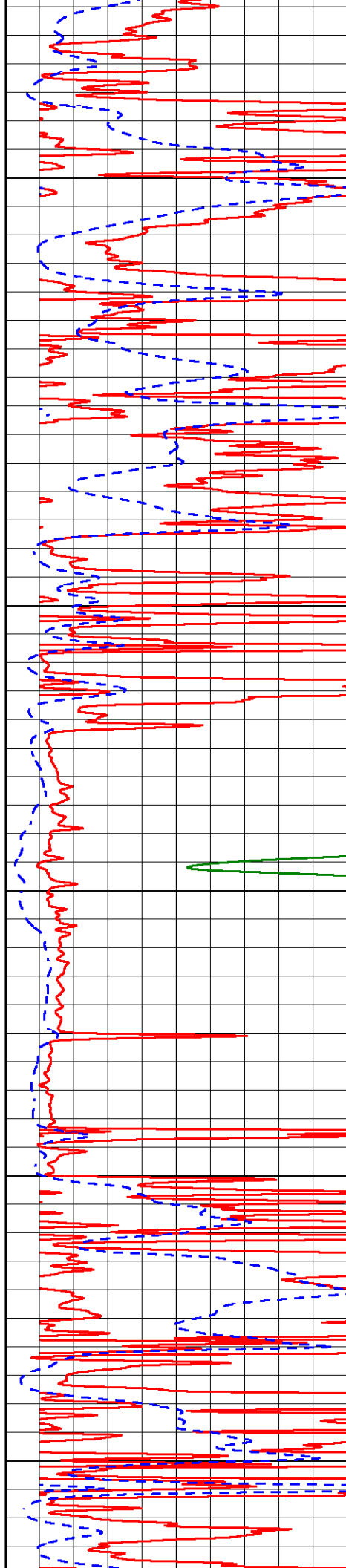
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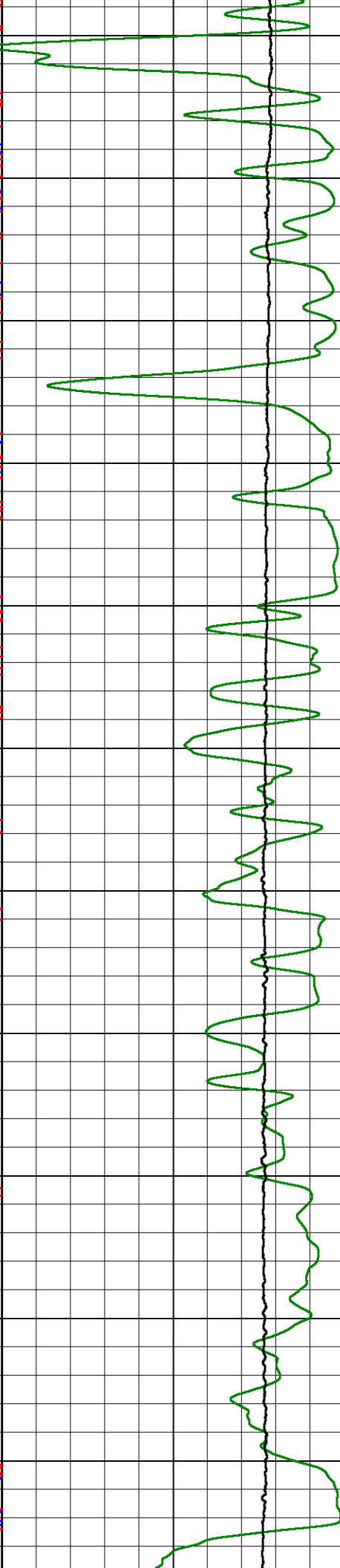
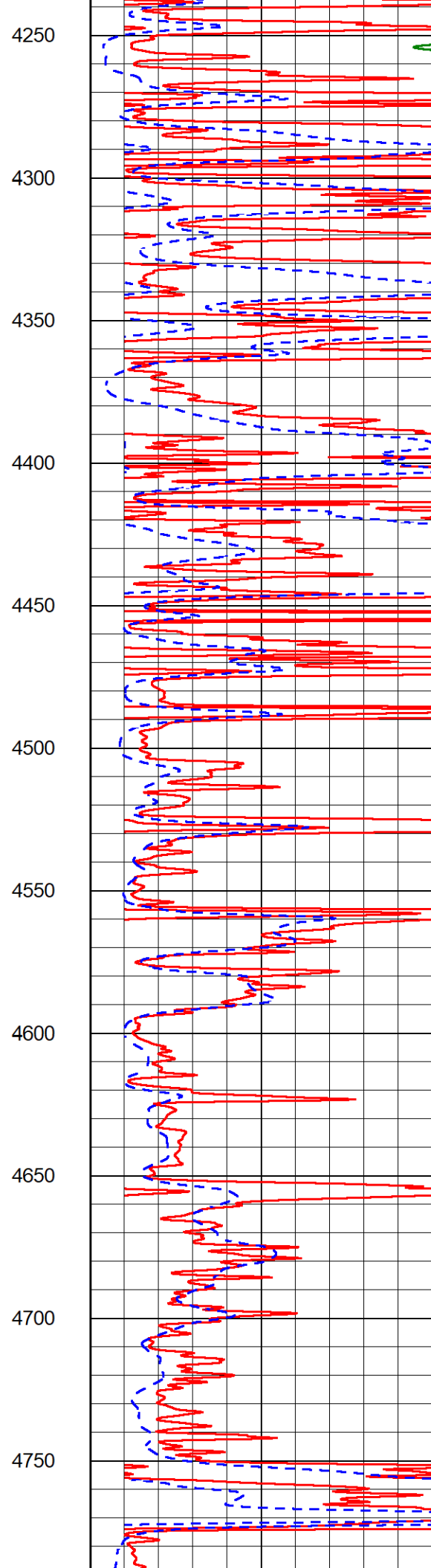
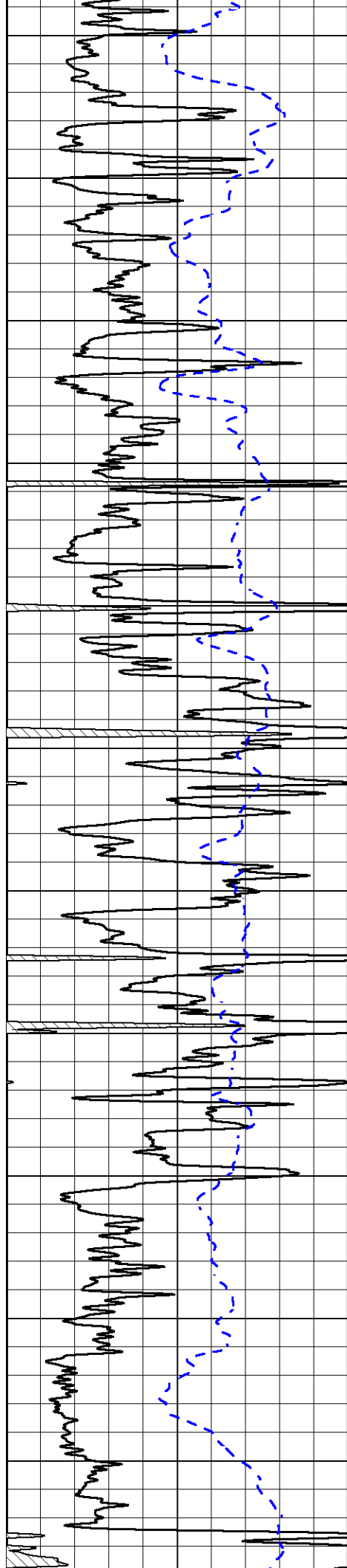
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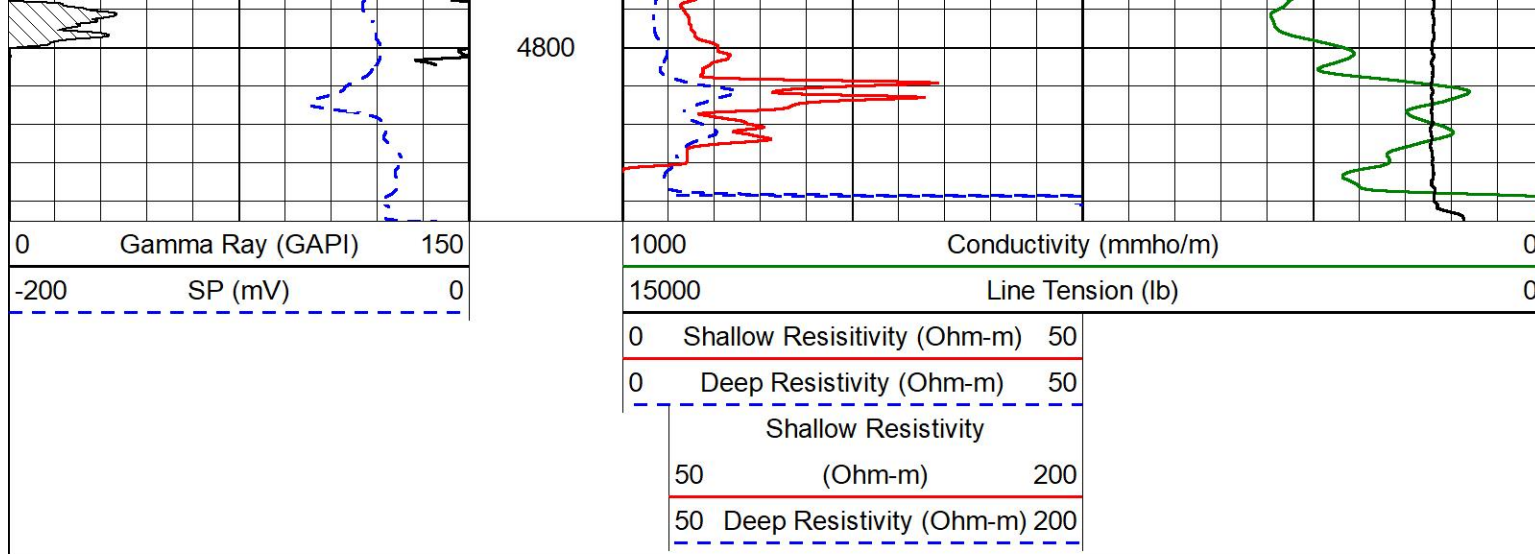
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4150

4200



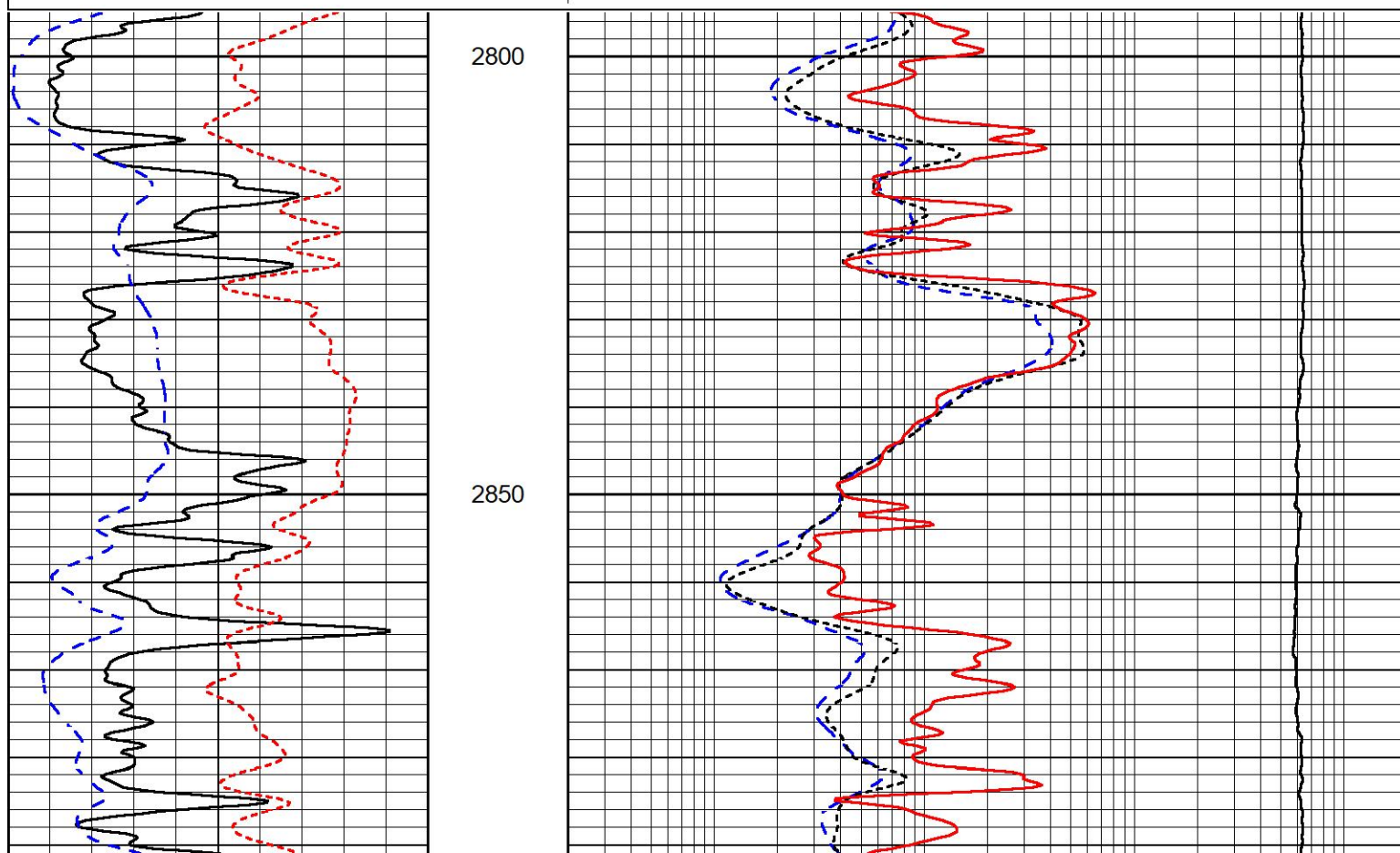
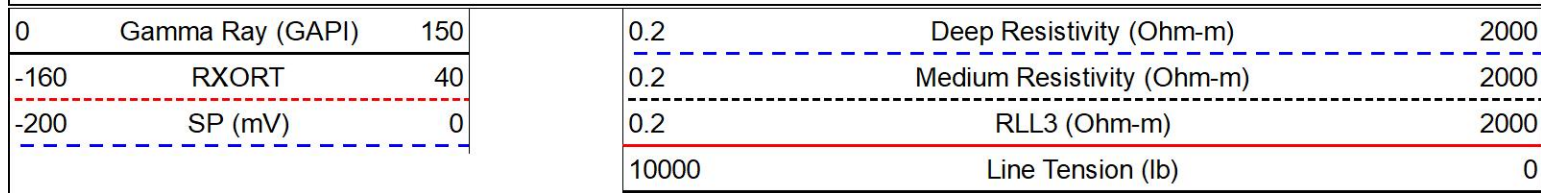


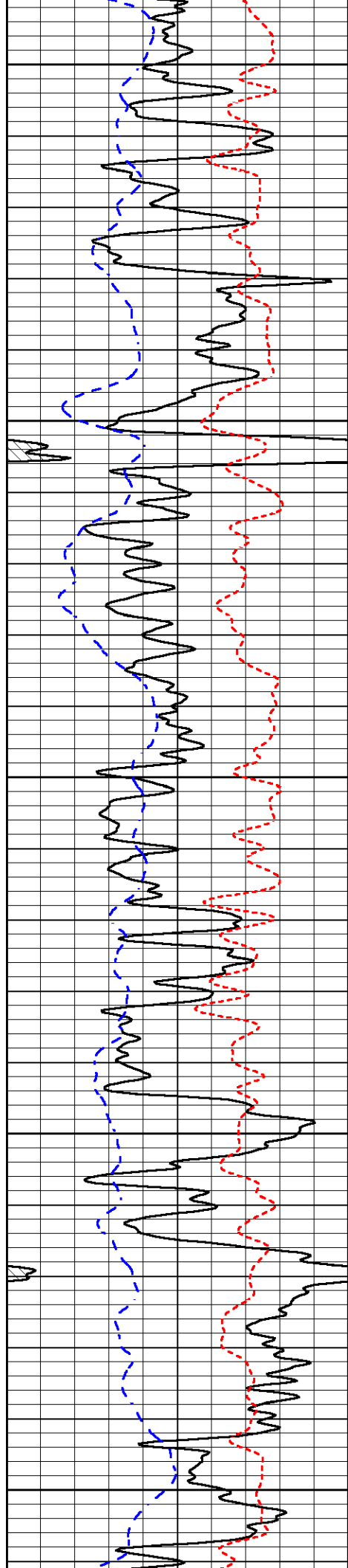


DETAIL SECTION

MAIN PASS

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





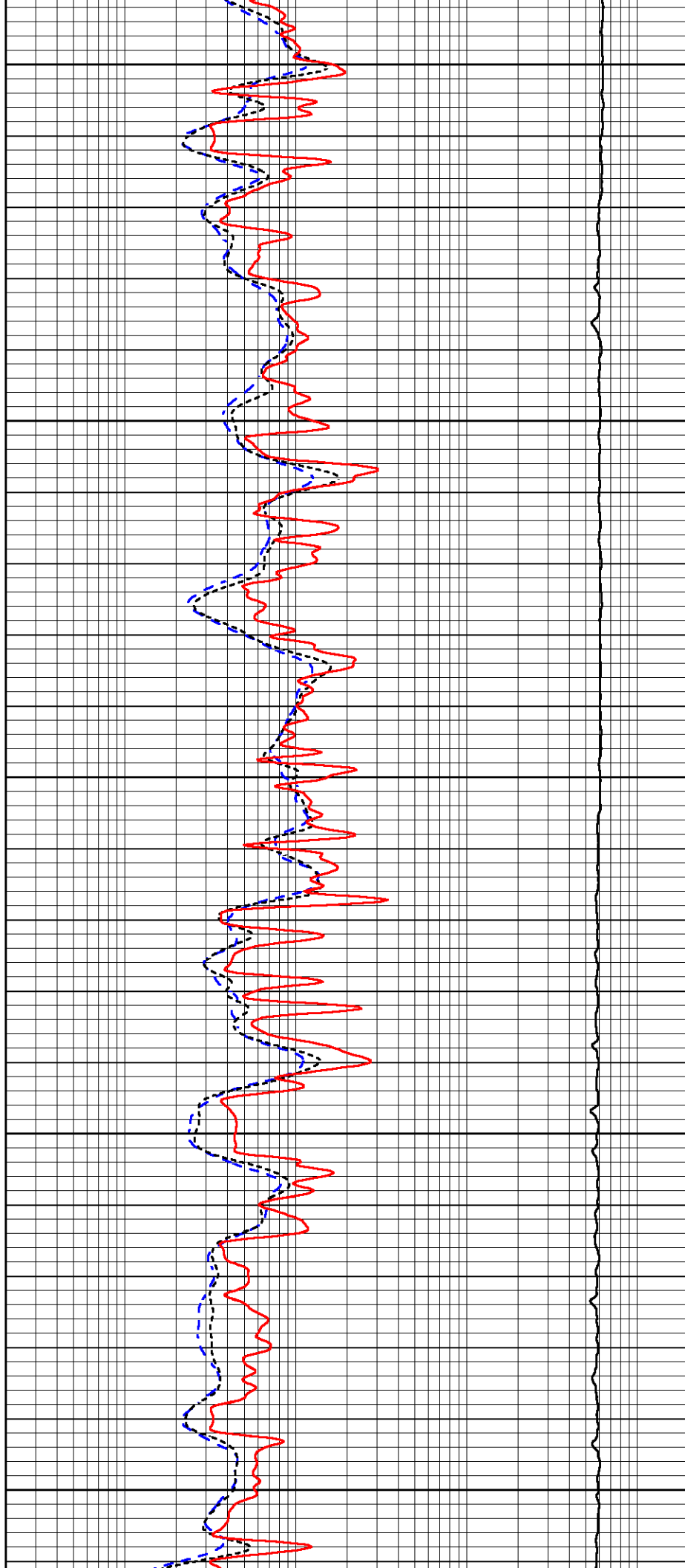
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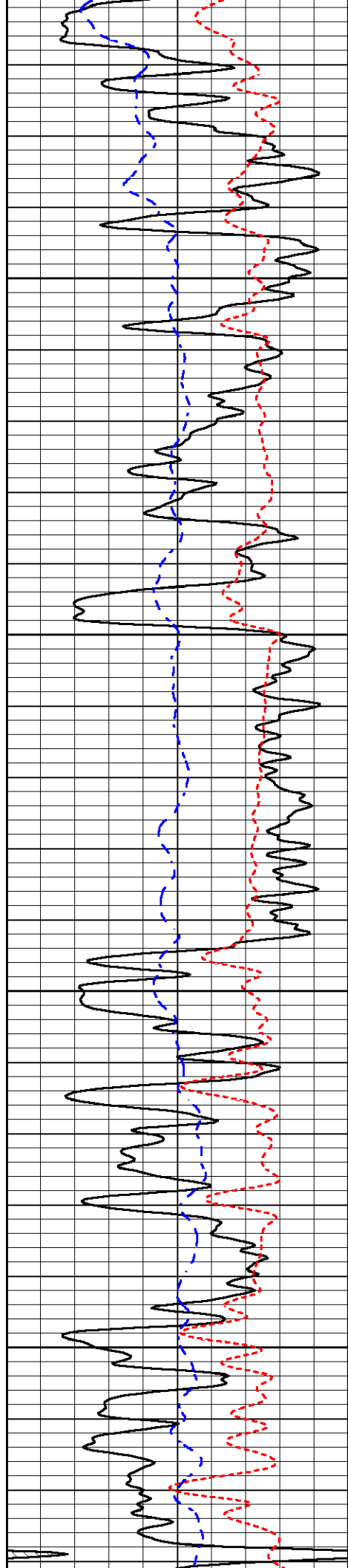
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3000

3050

3100



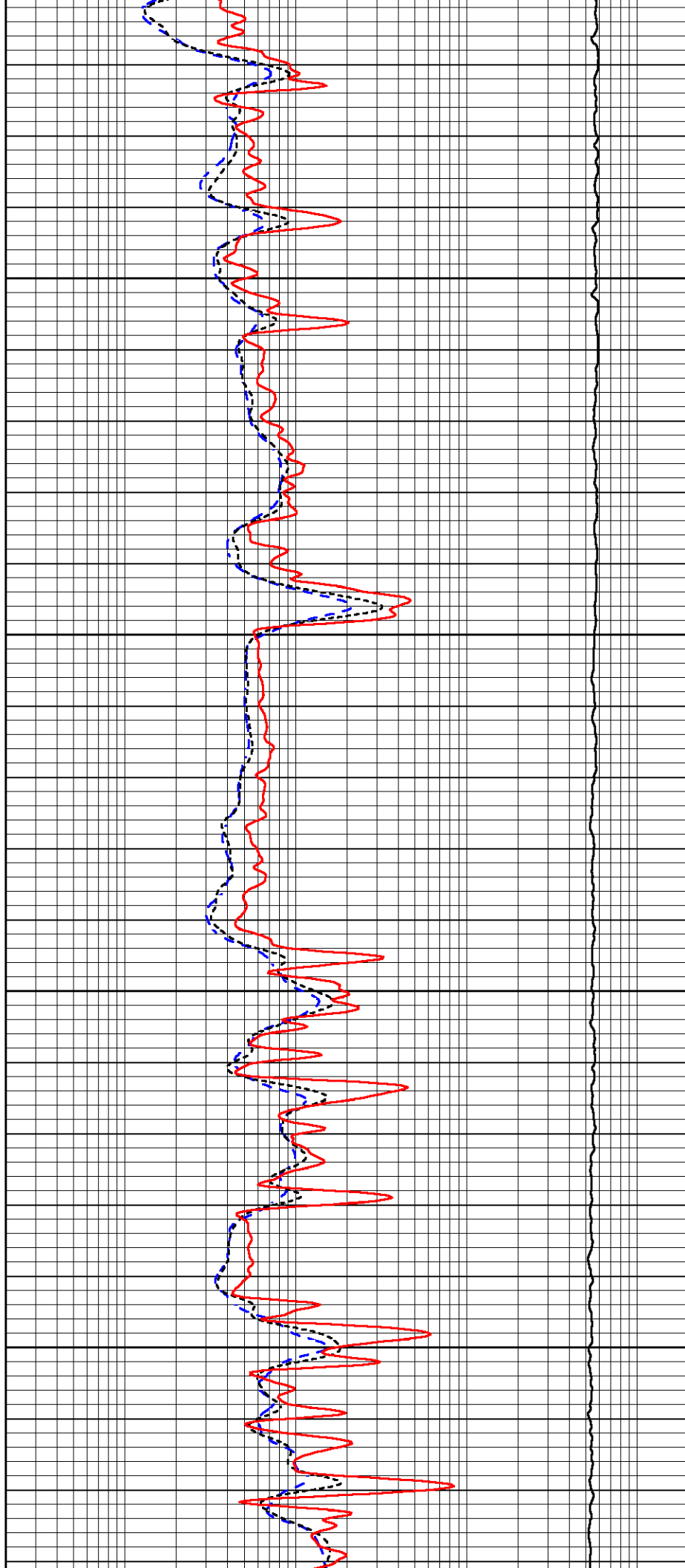


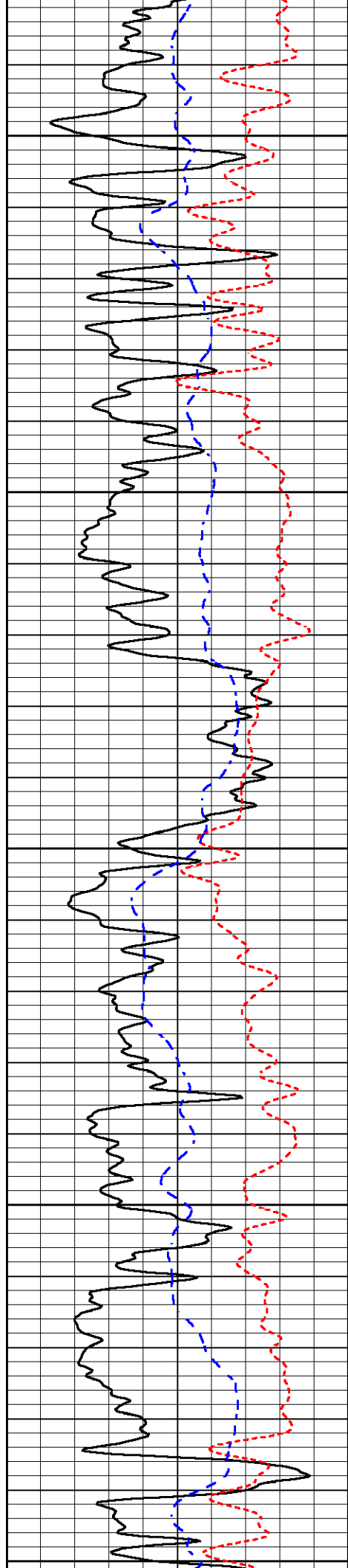
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3200

3250

3300





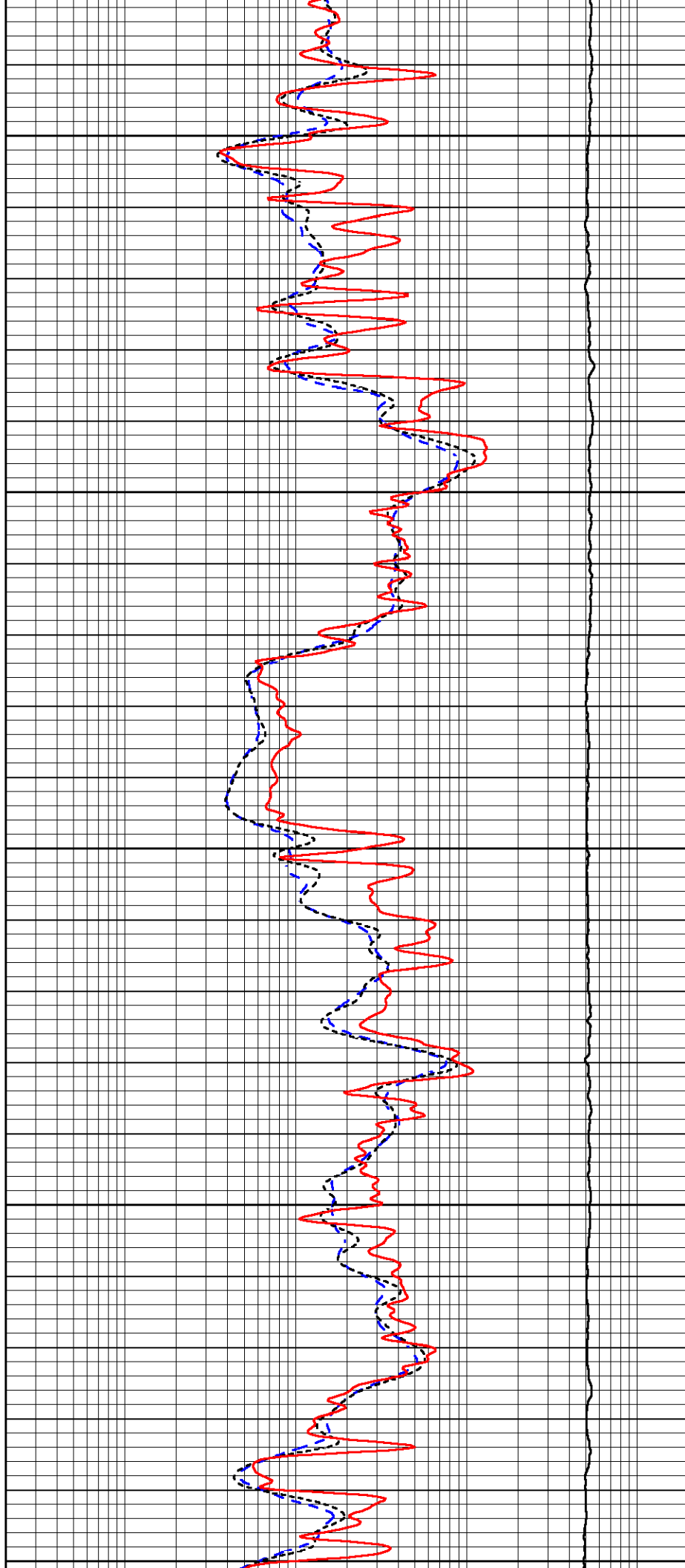
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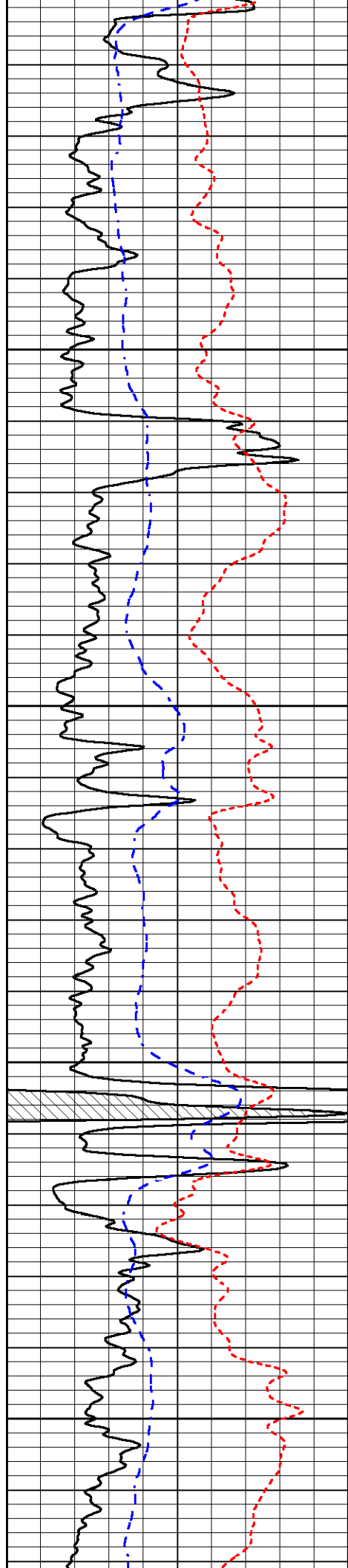
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3450

3500

3550



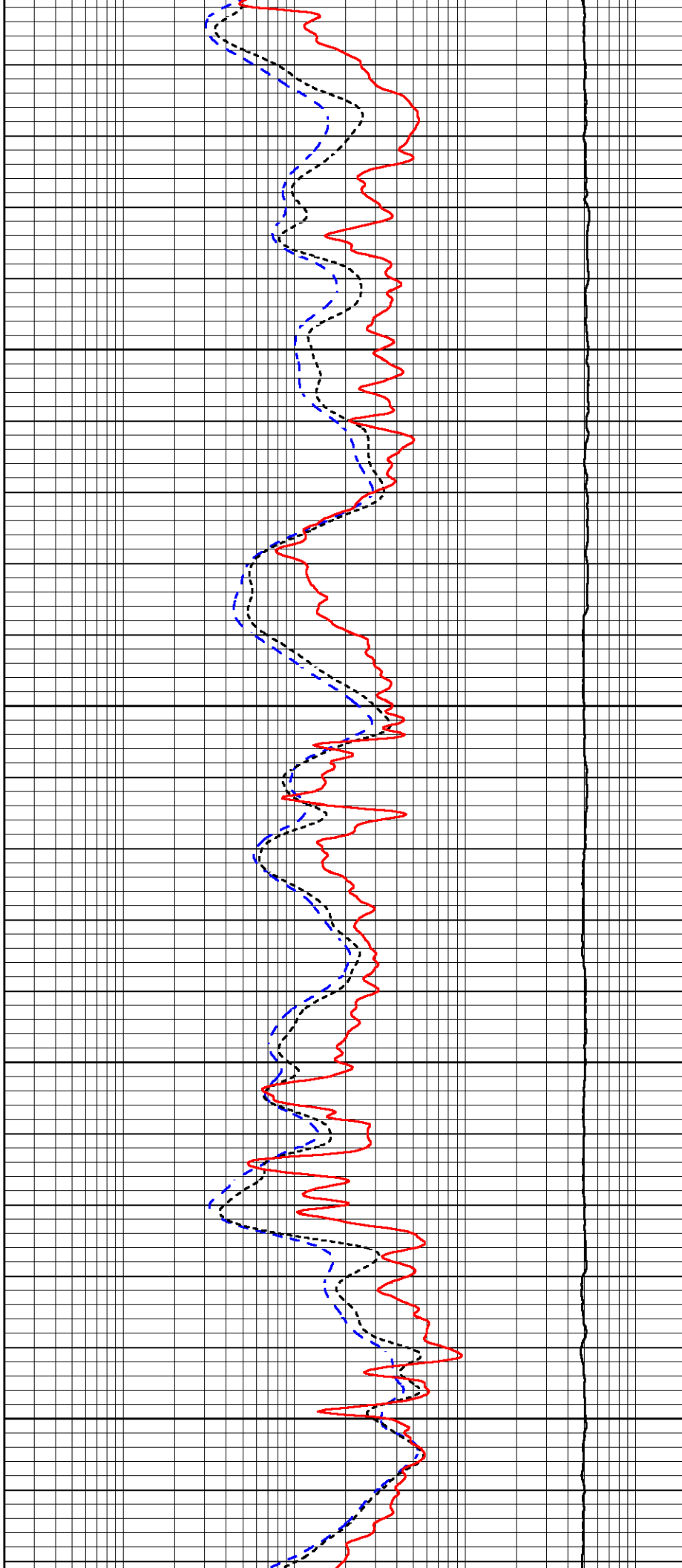


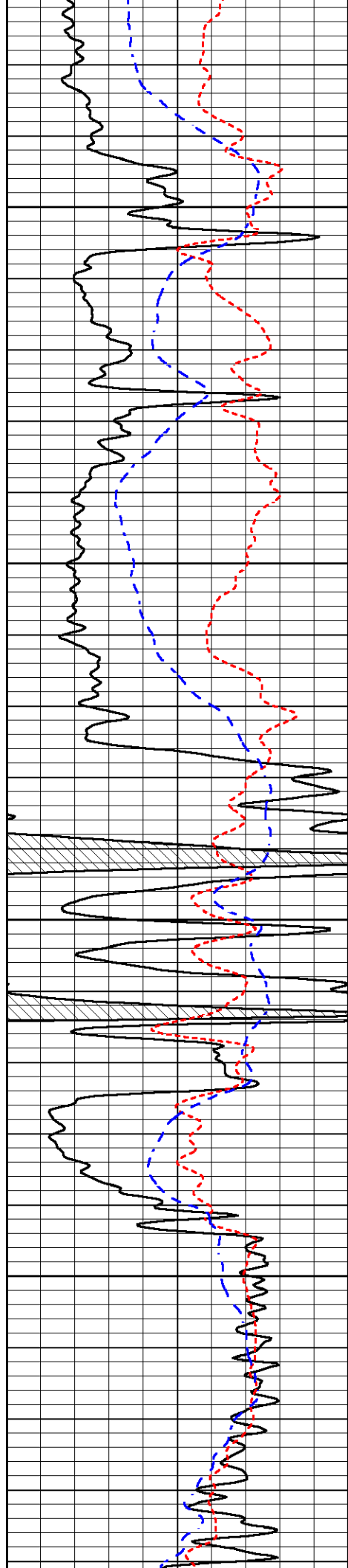
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3650

3700

3750



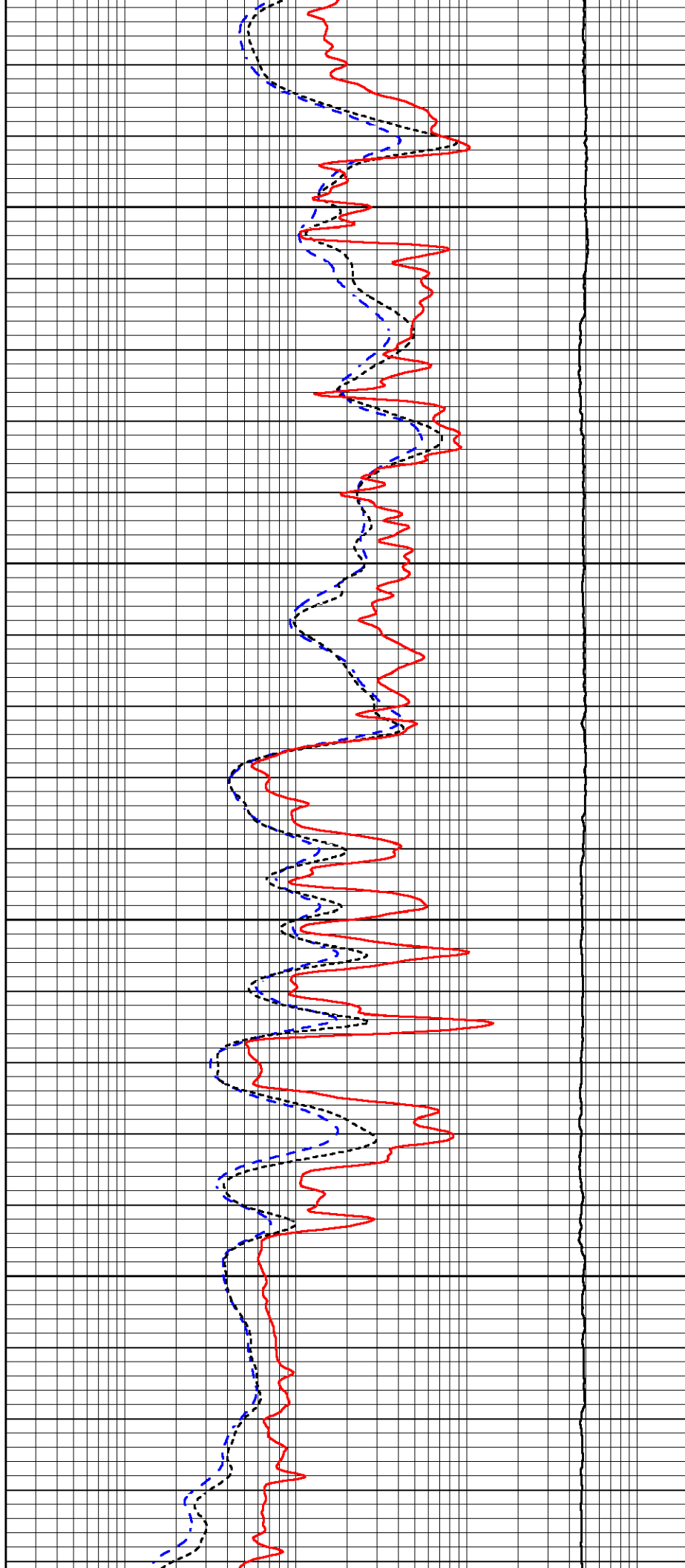


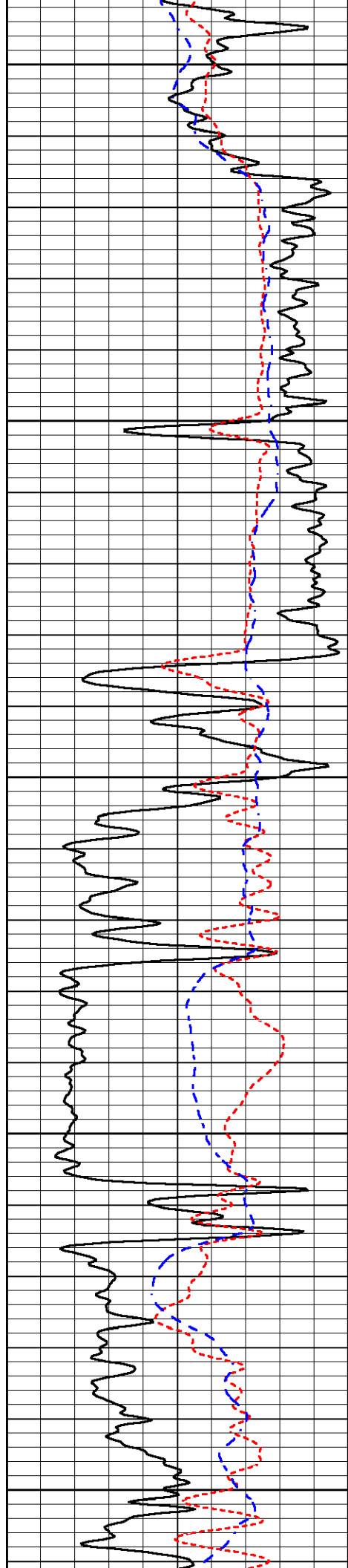
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3850

3900

3950





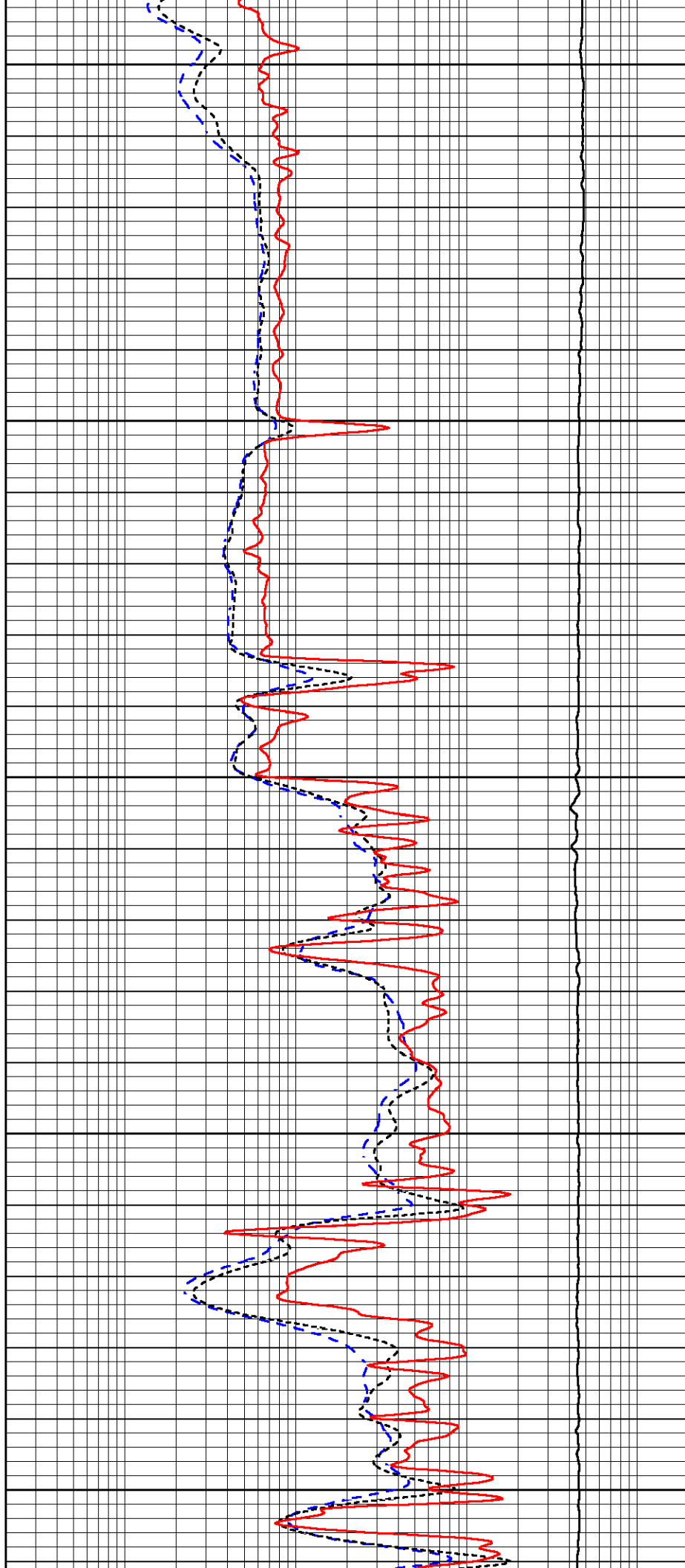
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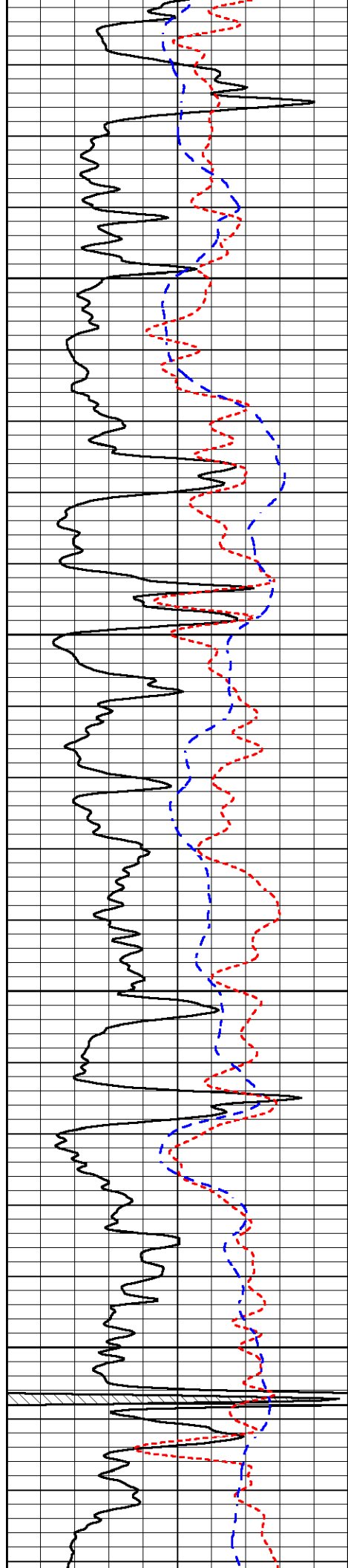
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4100

4150

4200



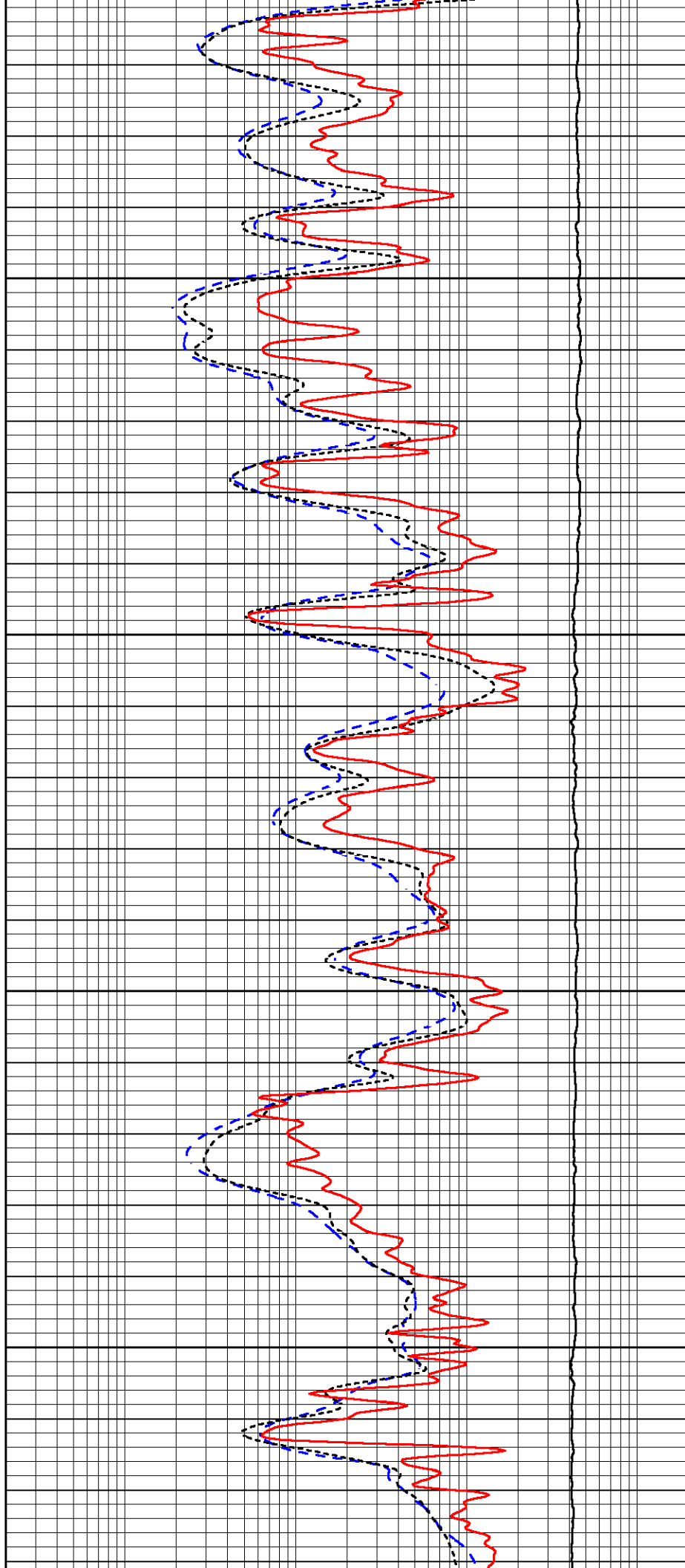


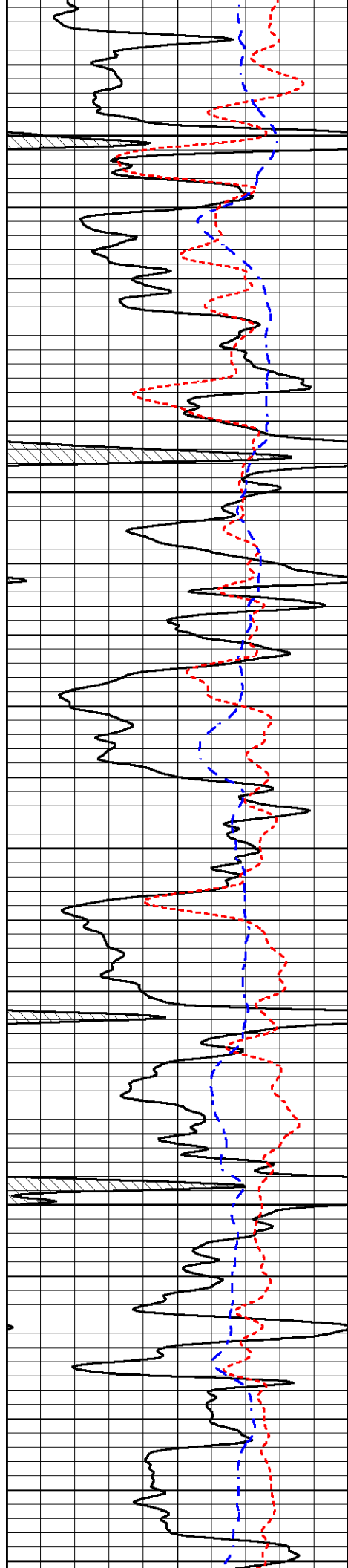
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4300

4350

4400





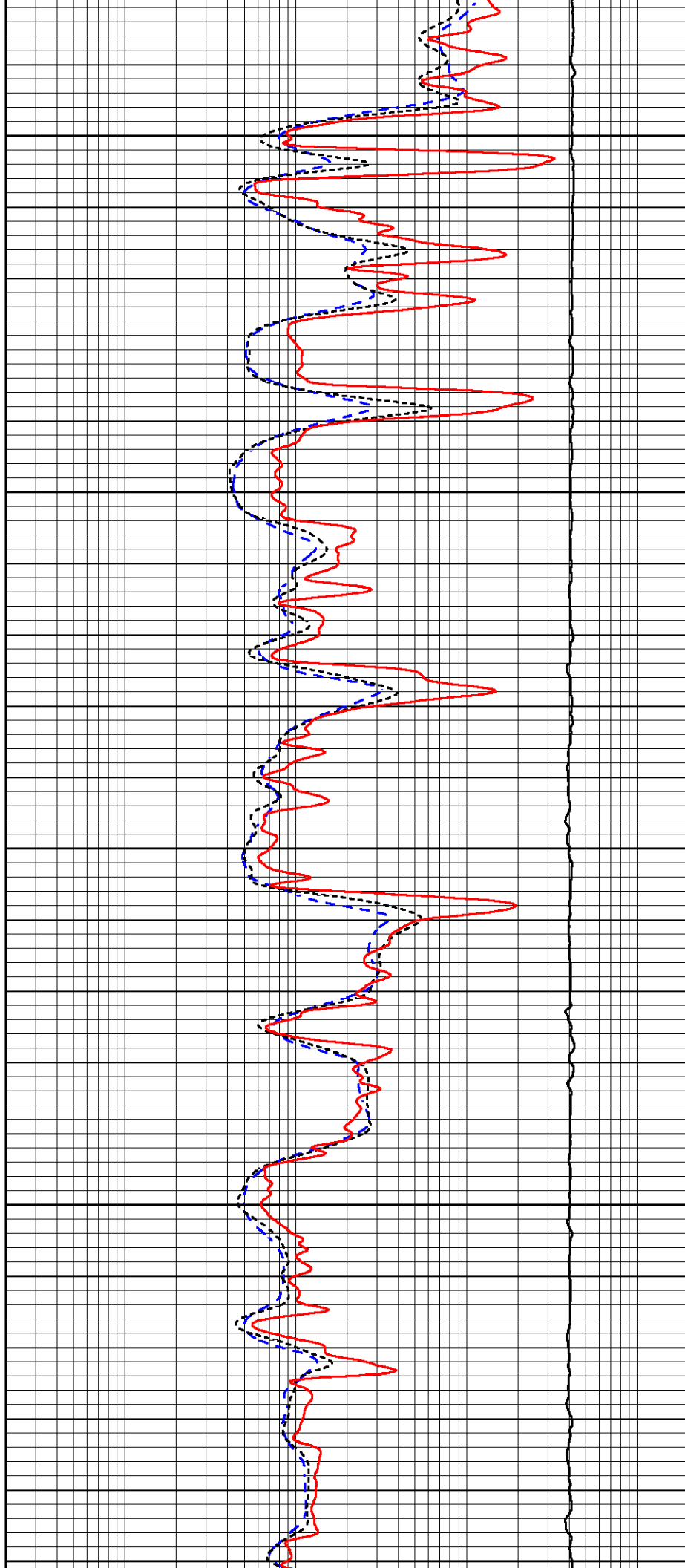
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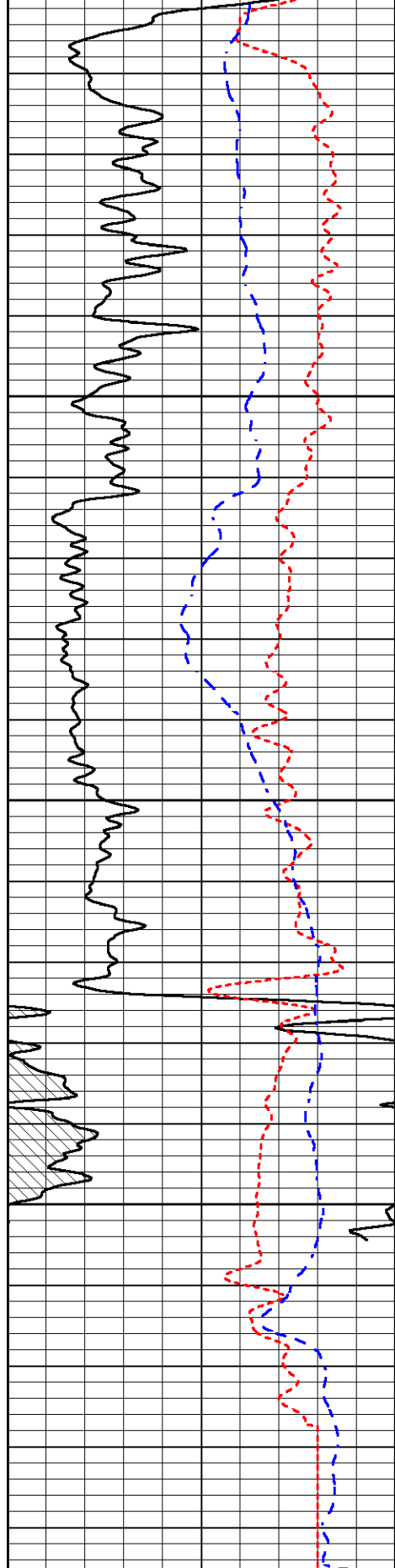
4500

4550

4600

4650



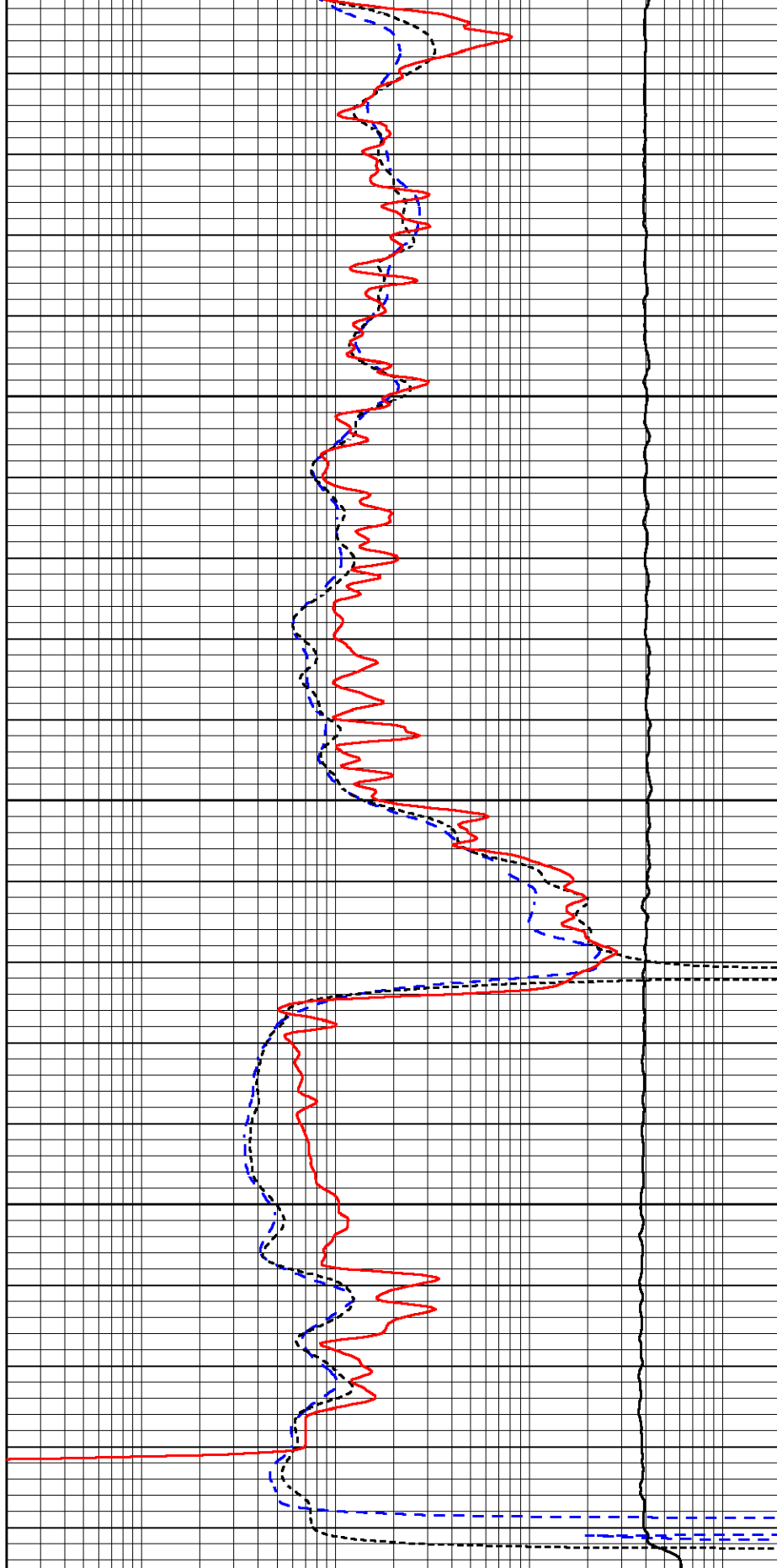


0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

4700

4750

4800



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



MIDWEST WIRELINE

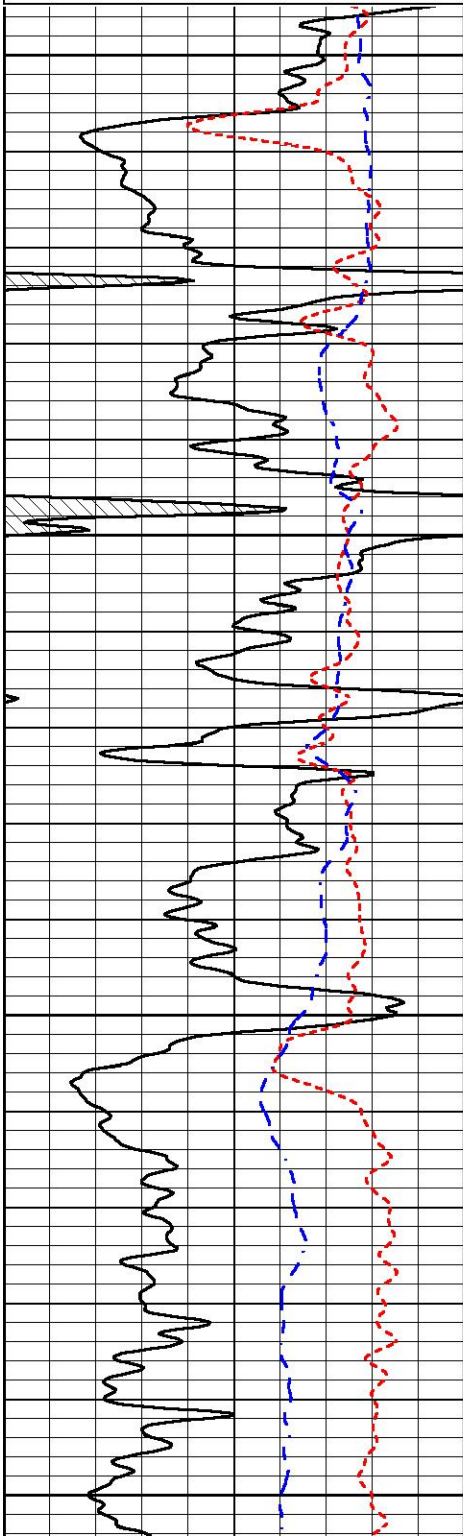
REPEAT SECTION

REPEAT PASS

Database File griffin_stacy #4.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Sun Oct 23 16:21:01 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	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

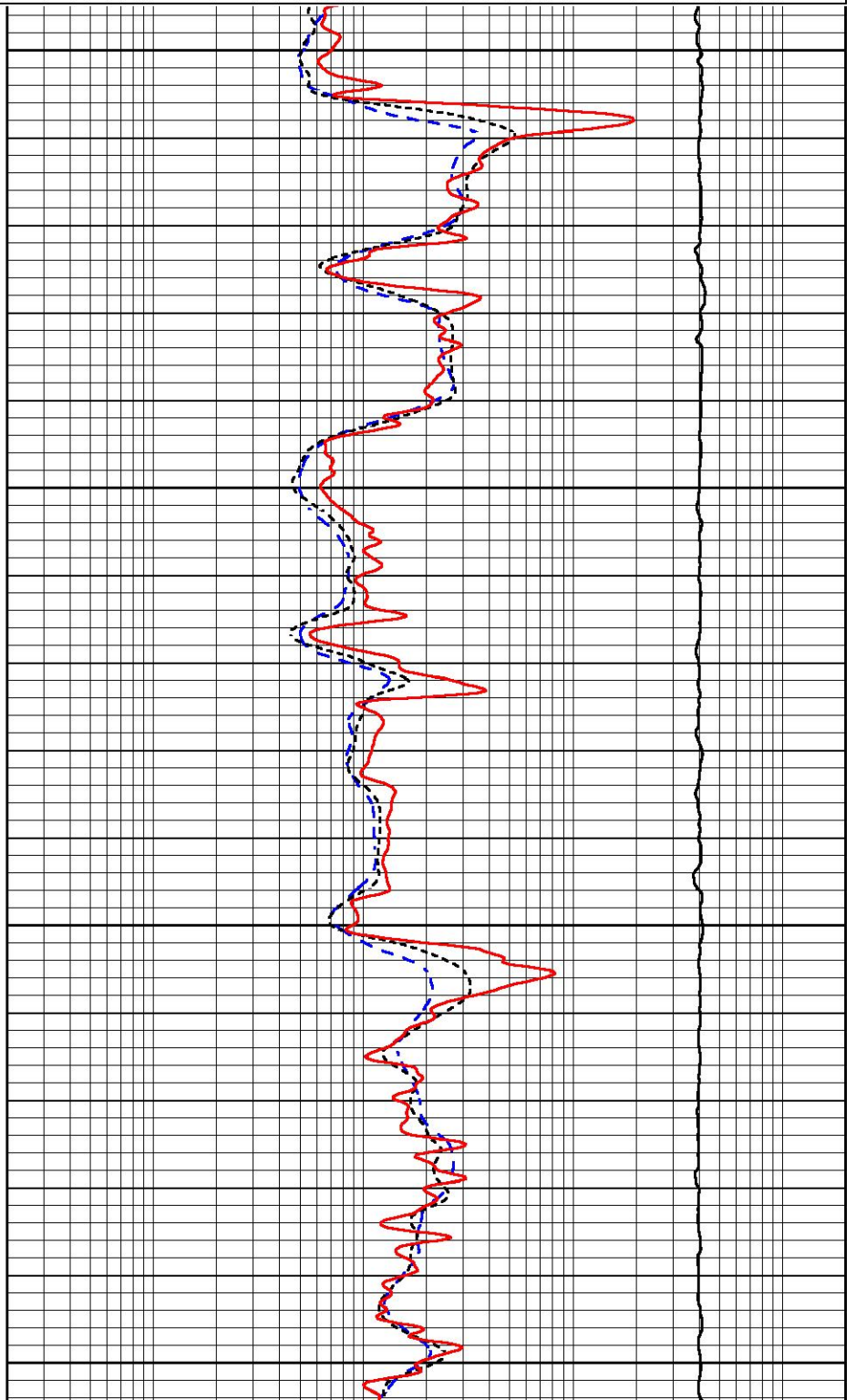


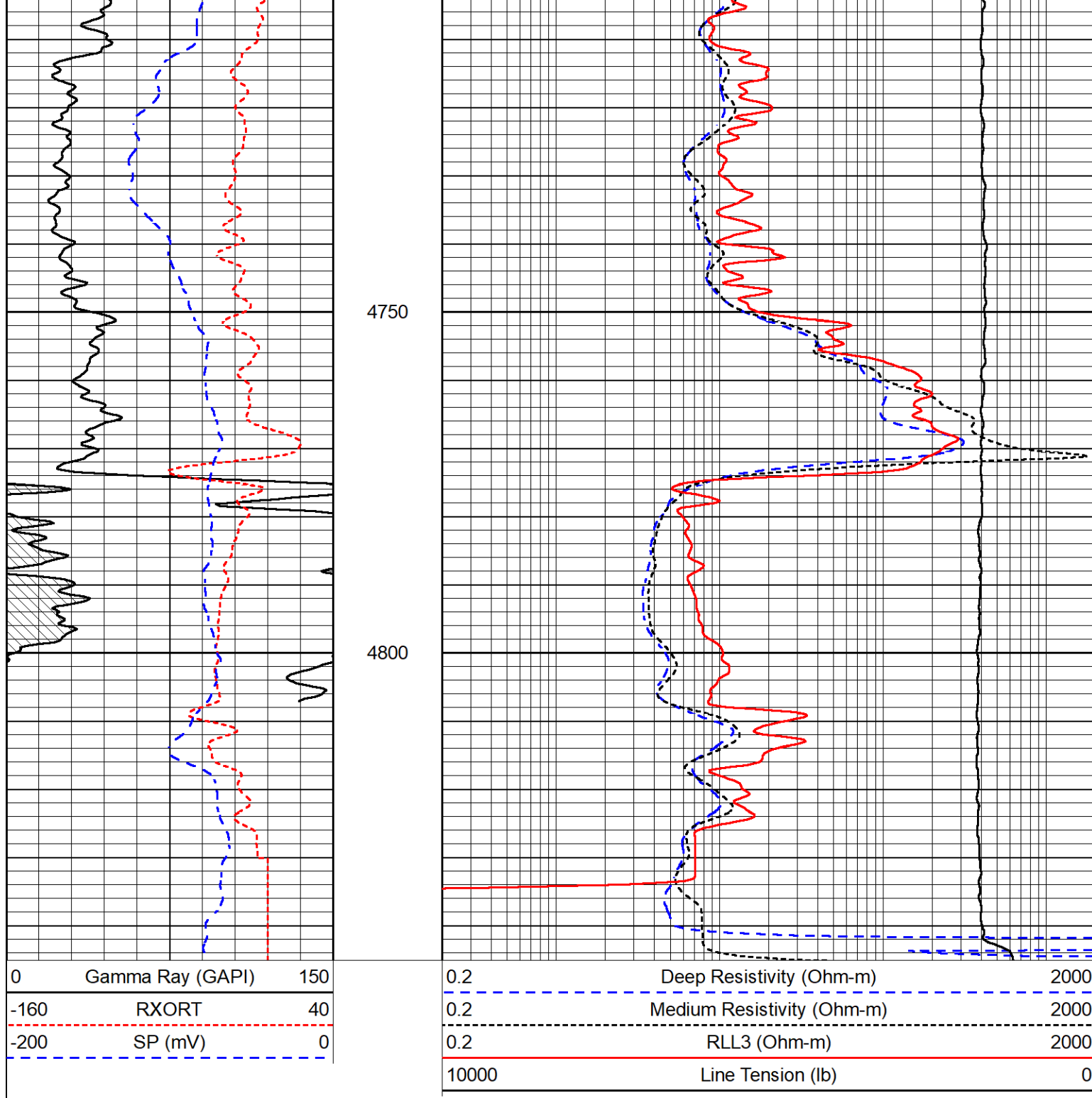
4550

4600

4650

4700





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
 Surface Cal Performed: Tue Oct 11 22:01:45 2022

Readings

References

Results

Loop:	Air	Loop	Air	Loop	mmho/m	m	b
Deep	83.639	487.104	0.000	183.000	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		cps				
	Long Space		cps	pu			
POST-SURVEY VERIFICATION							
Detector		Readings		Measured		Target	
1)	Short Space		cps				

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



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