



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Griffin Management LLC
Well Whitley #1
Field Moffett West
County Barber
State Kansas

Company Griffin Management LLC
Well Whitley #1
Field Moffett West
County Barber State Kansas

Location: API #: 15-007-24403-00-00

Other Services

SEC 8 TWP 30S RGE 15W
N/2 NE NE NE
190 FNL & 330 FEL

CNL/CDL
MEL

Permanent Datum Ground Level Elevation 1979
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 1991
D.F.
G.L. 1979

Date 3/2/2022

Run Number	One		
Depth Driller	4840		
Depth Logger	4842		
Bottom Logged Interval	4841		
Top Log Interval	250		
Casing Driller	8.625 @ 251		
Casing Logger	250		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5500		
Density / Viscosity	9.3 54		
pH / Fluid Loss	10.0 9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75 @ 76		
Rmt @ Meas. Temp	0.56 @ 76		
Rmc @ Meas. Temp	1.01 @ 76		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.46 @ 124		
Operating Rig Time	2.5 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-108		
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.

Havilland, E to Croft blktp, S to 110,
1.5 S, 1 E, S & W 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:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_whitley #1.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	490	50		4842

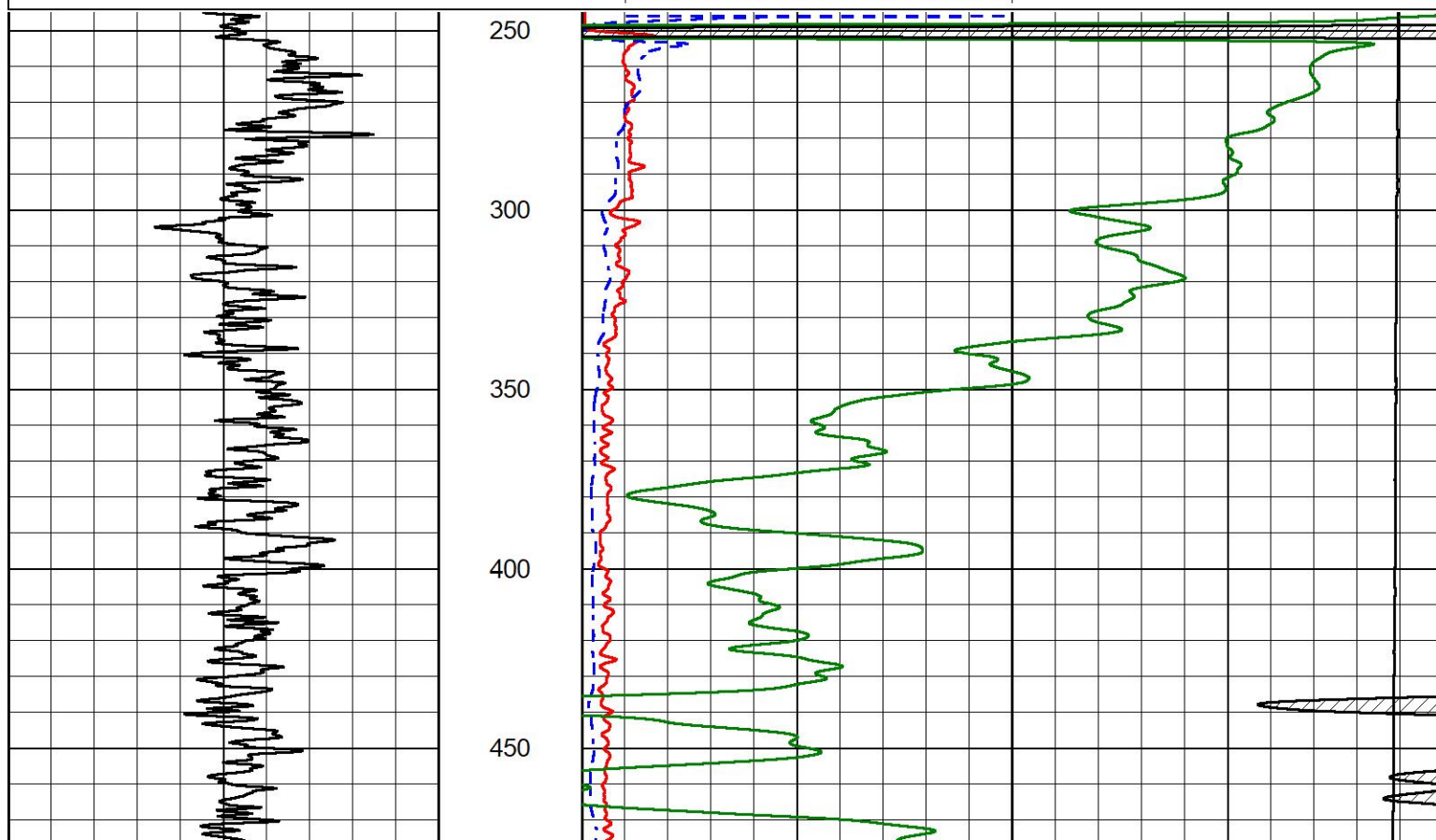


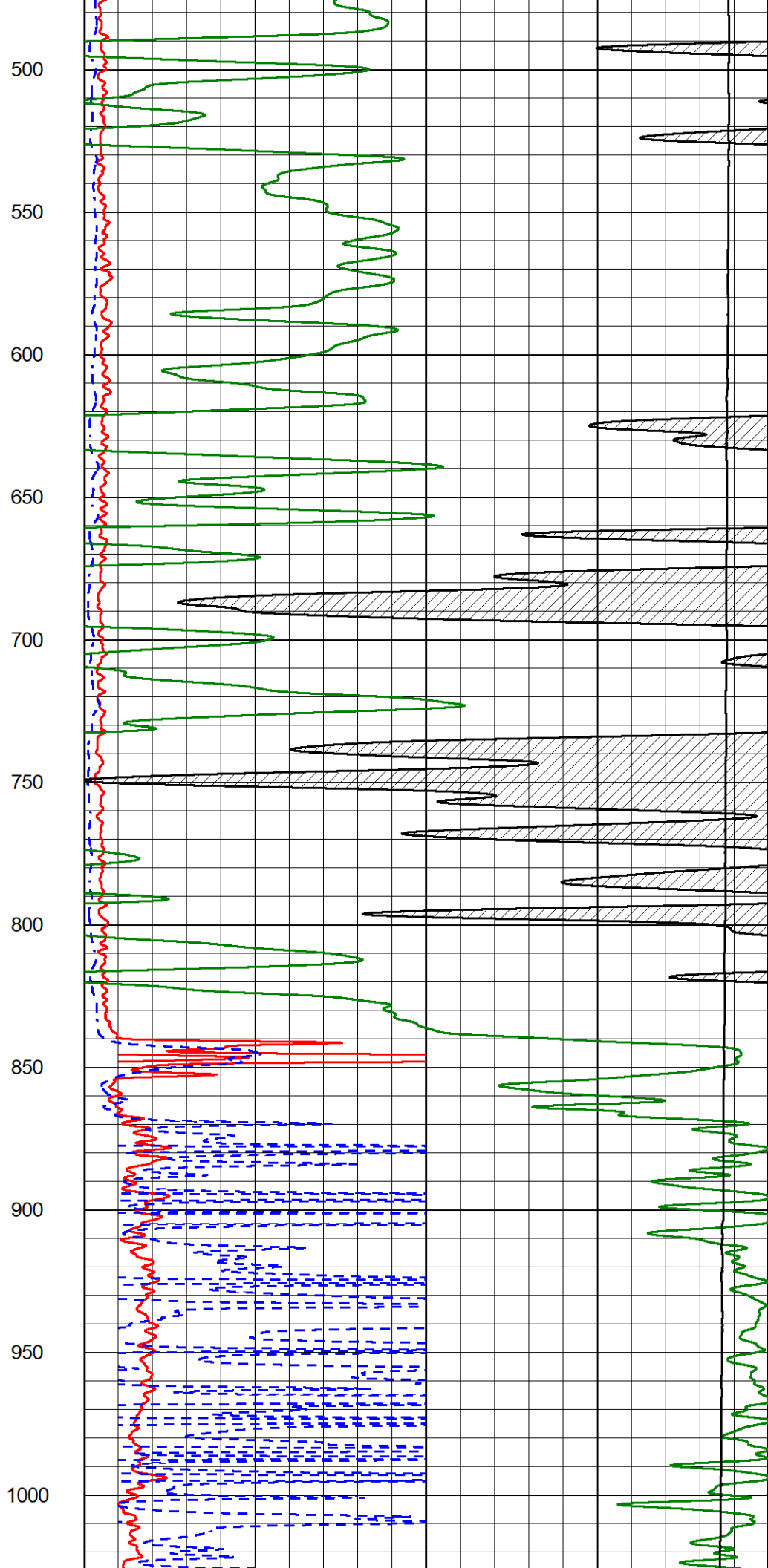
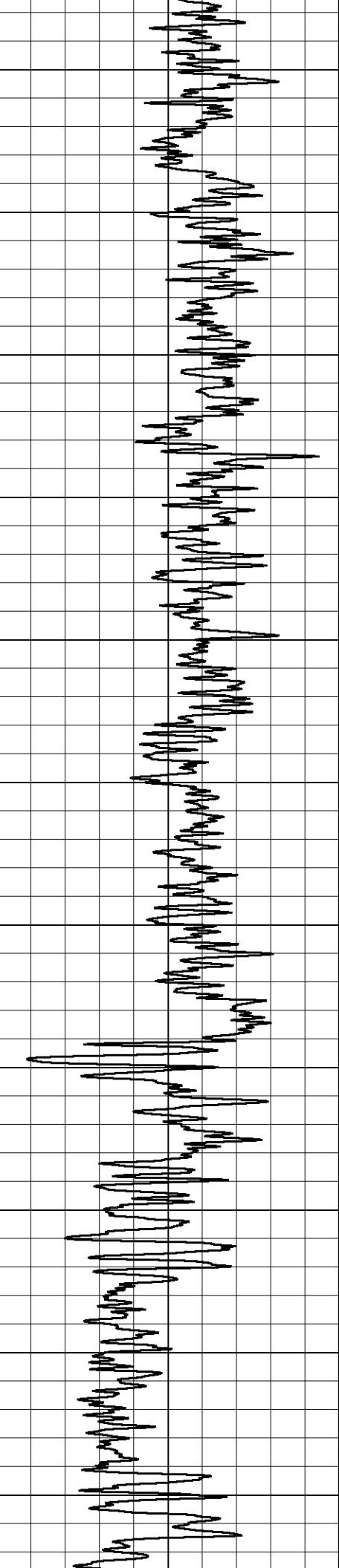
2" SCALE RESISTIVITY

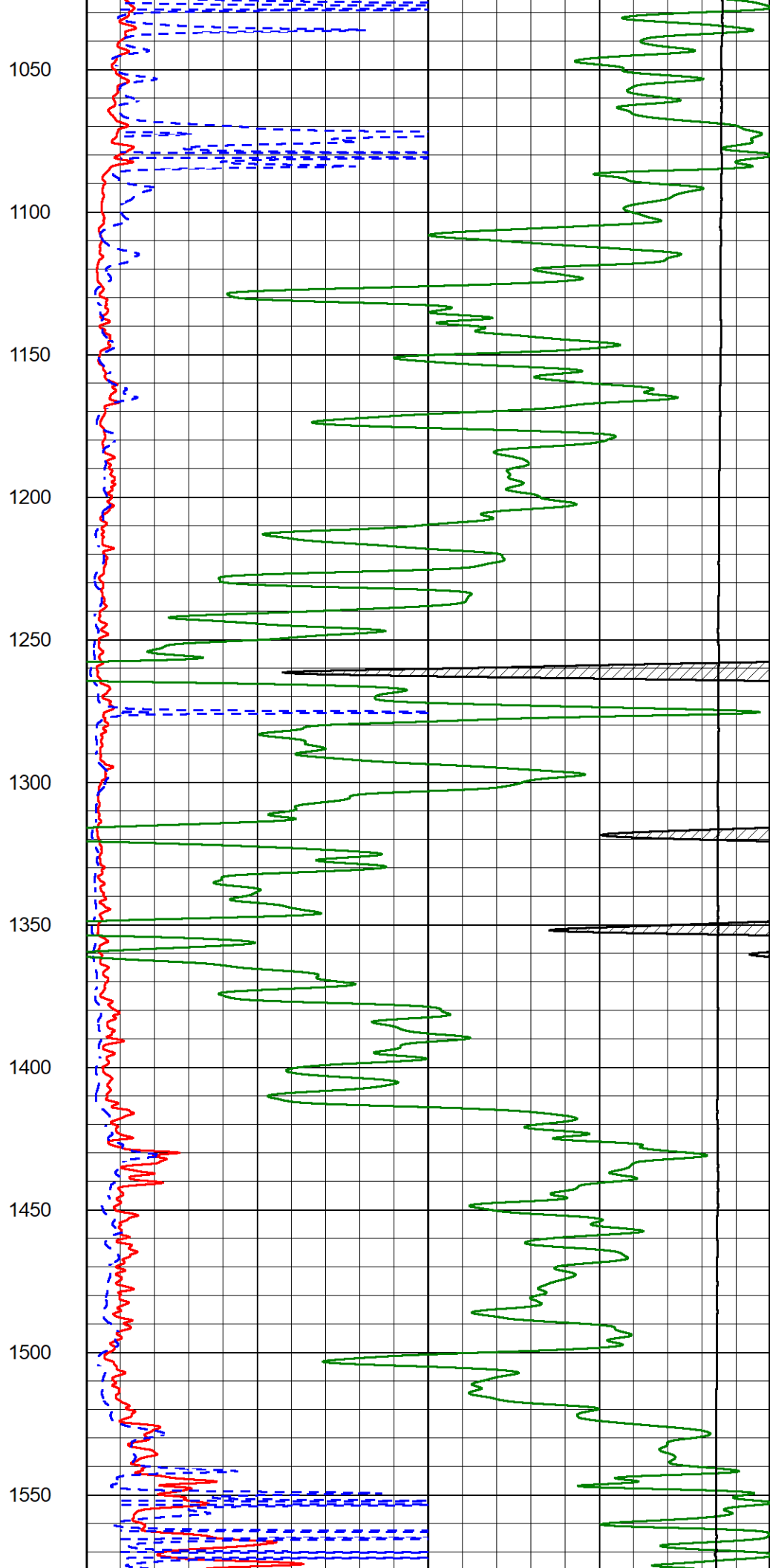
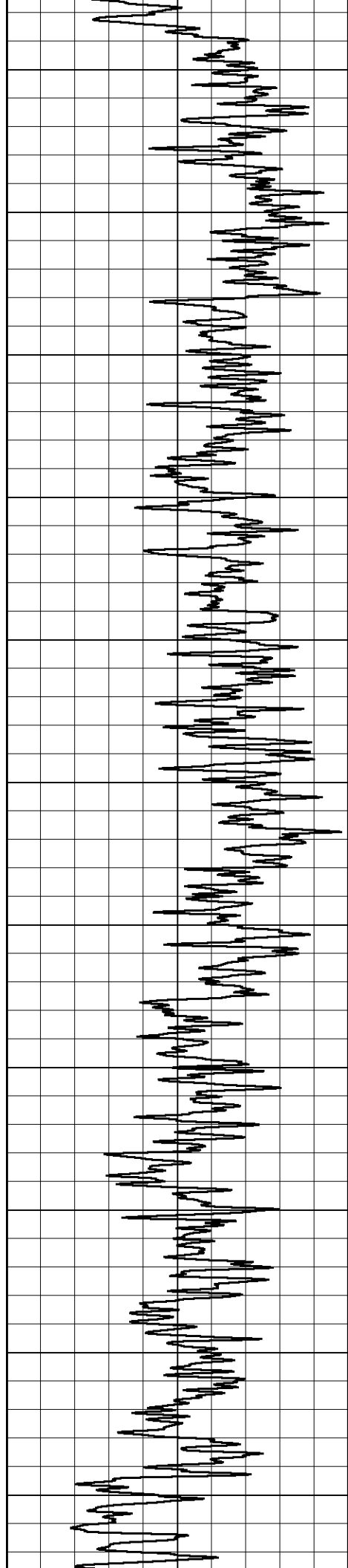
MAIN PASS

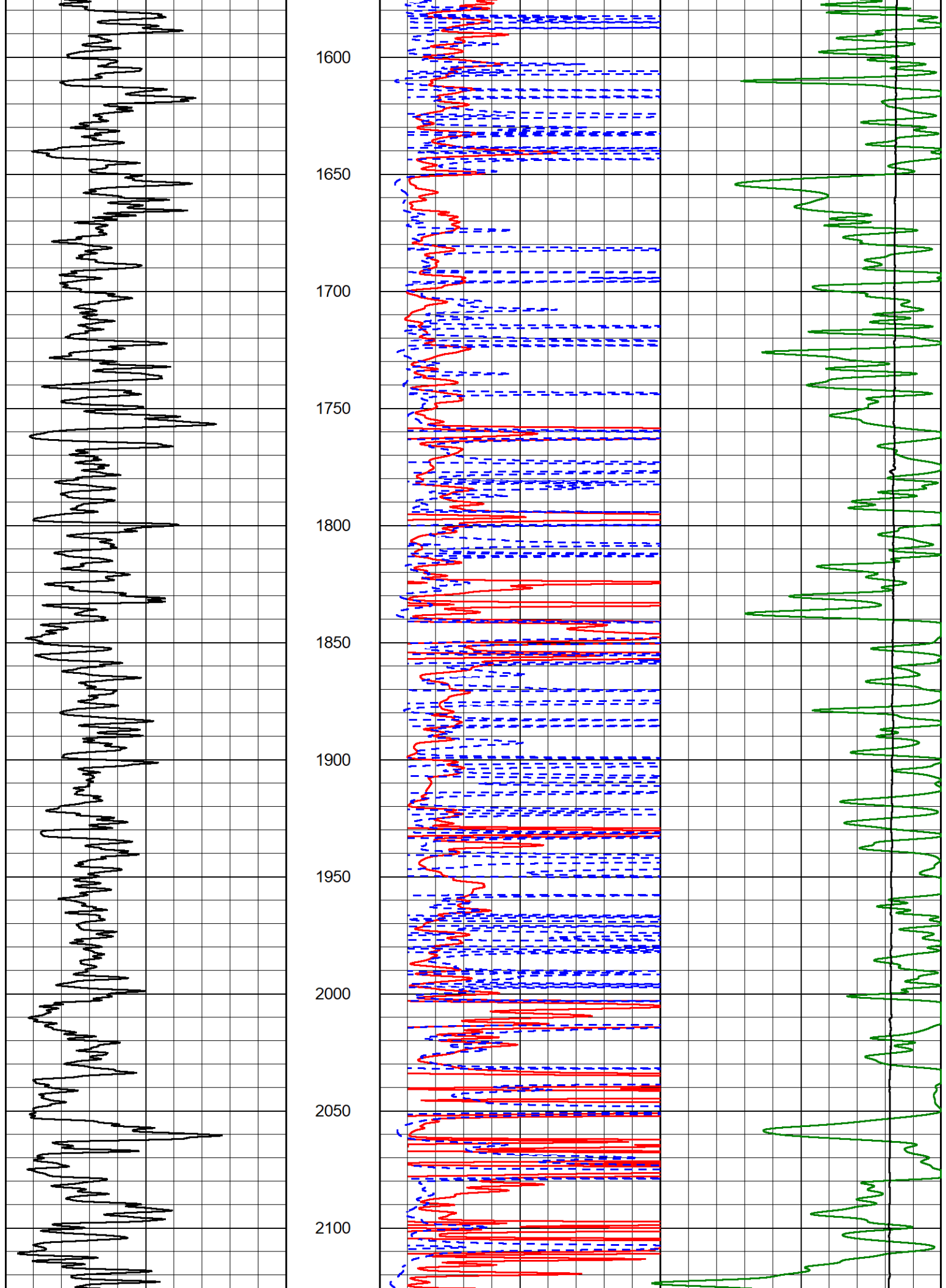
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Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Wed Mar 02 09:46:01 2022
Charted by Depth in Feet scaled 1:600

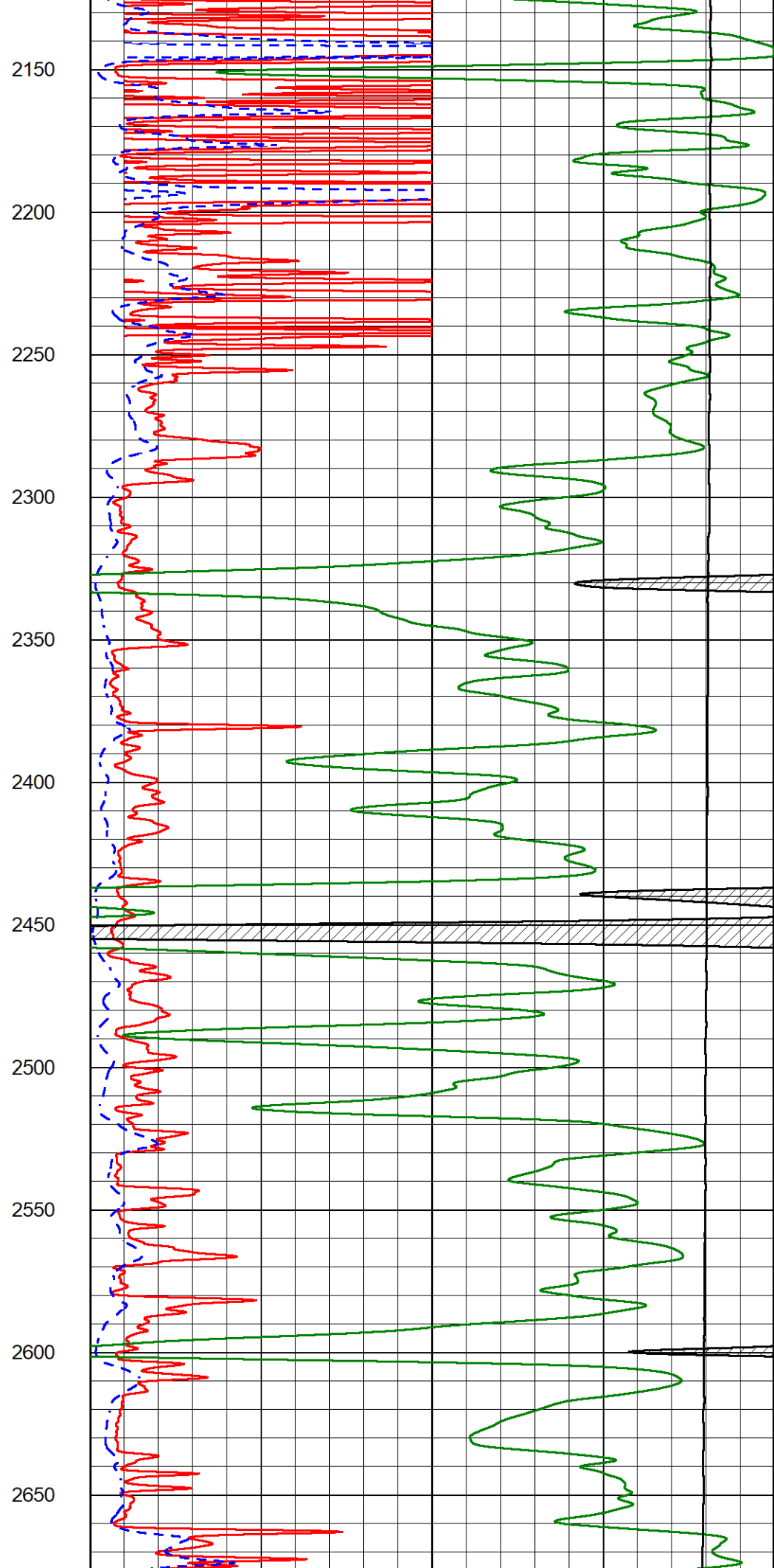
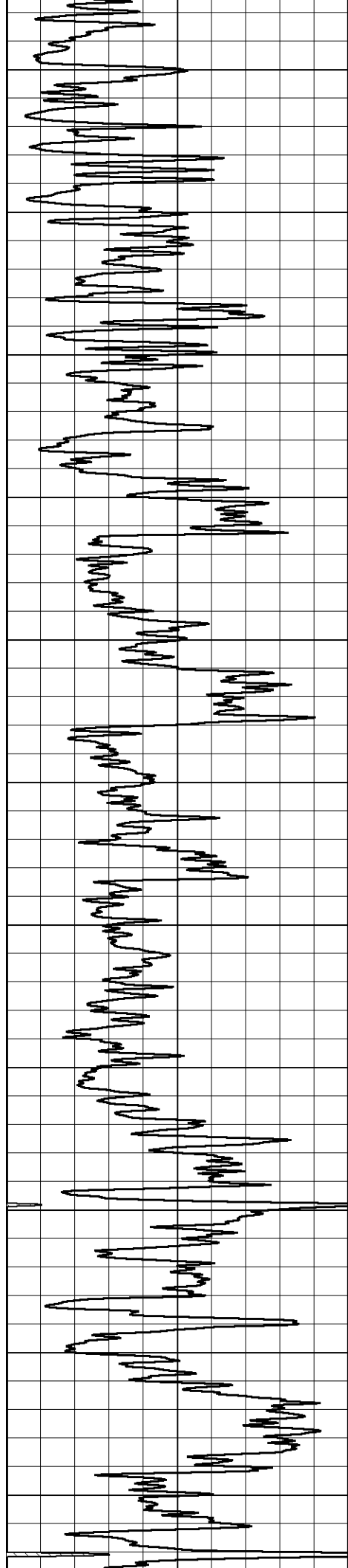
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			15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
				Shallow Resistivity	
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

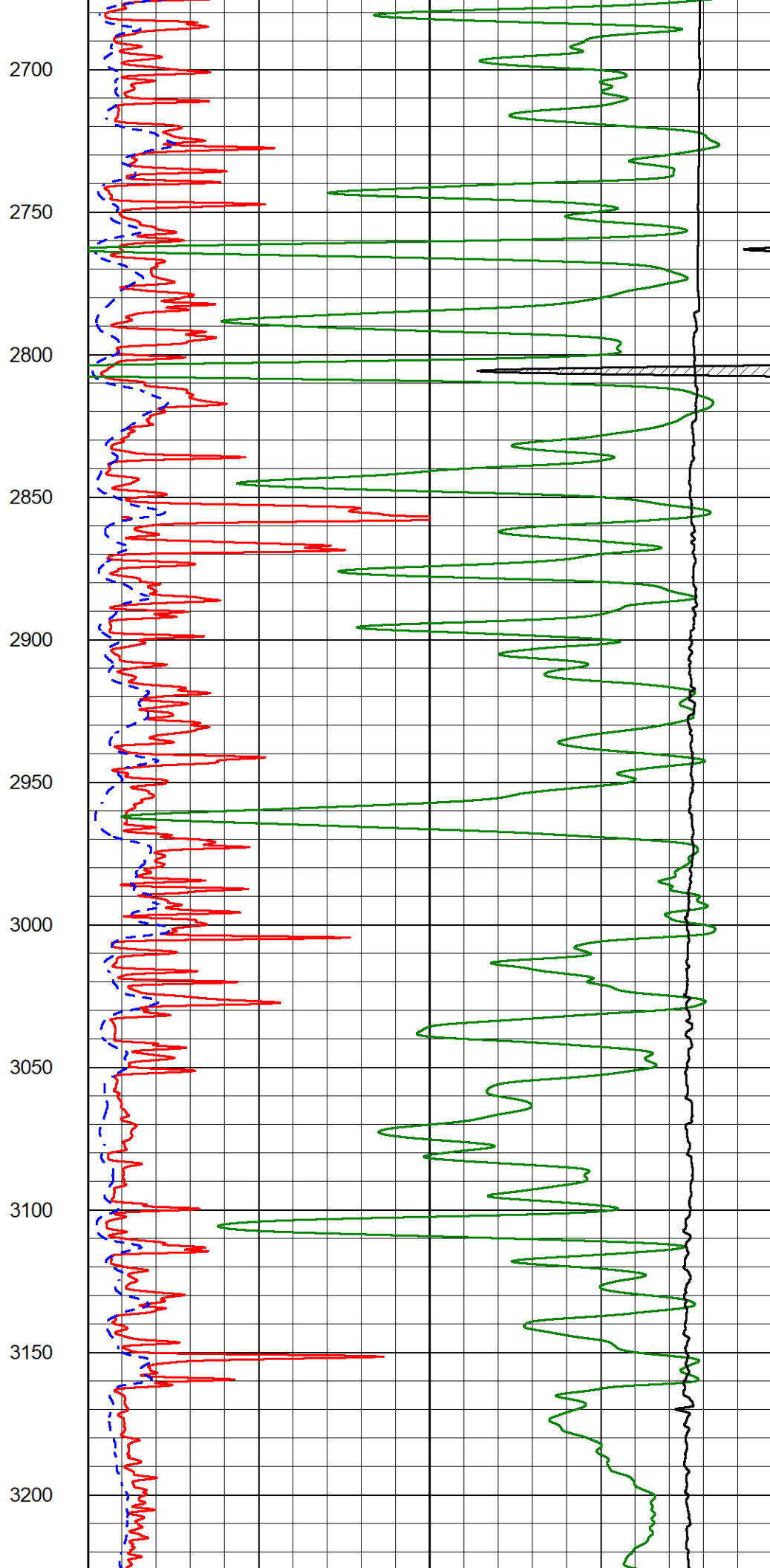
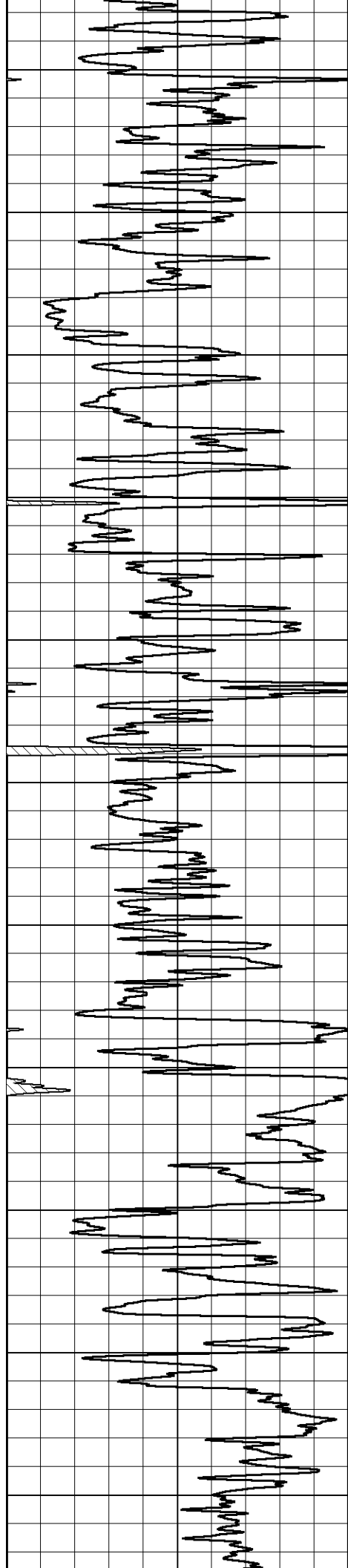


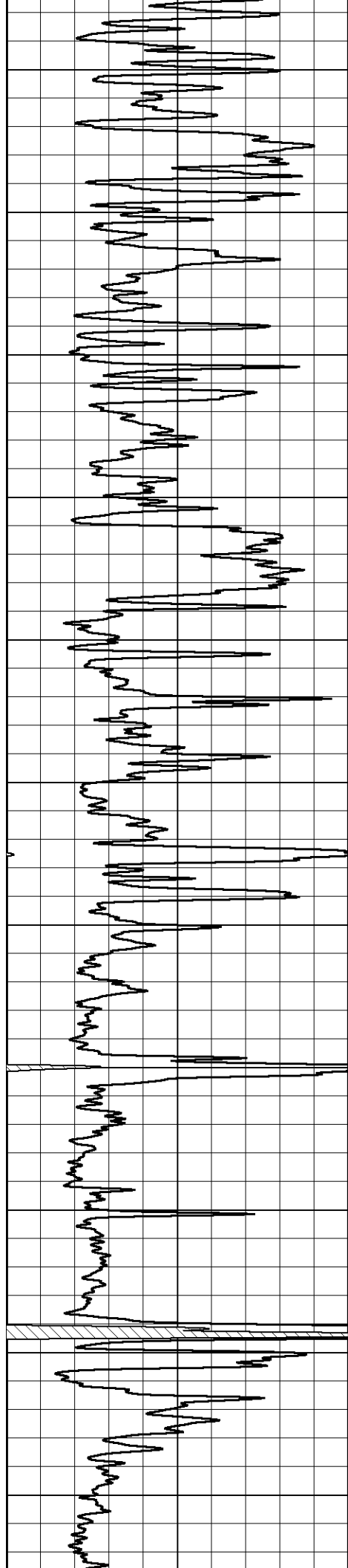












3250

3300

3350

3400

3450

3500

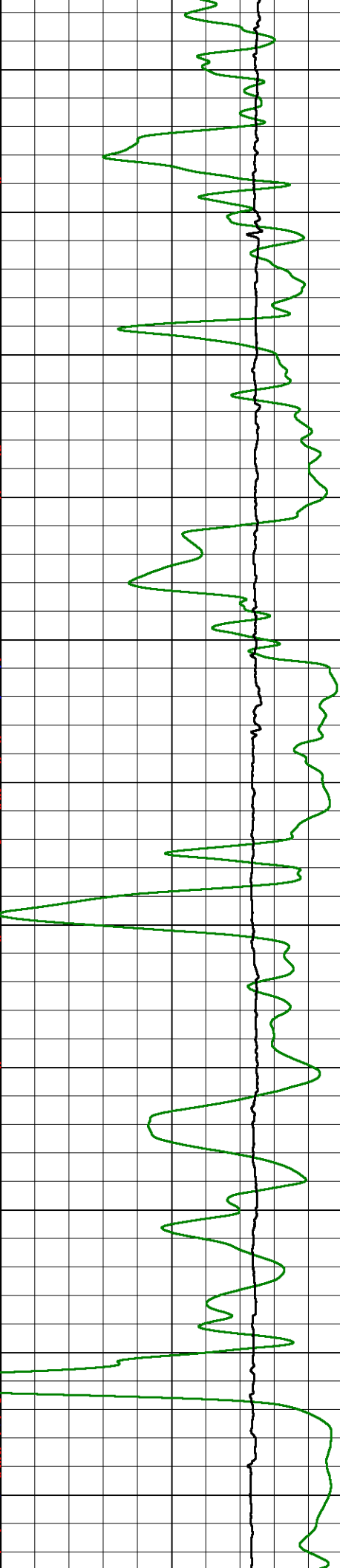
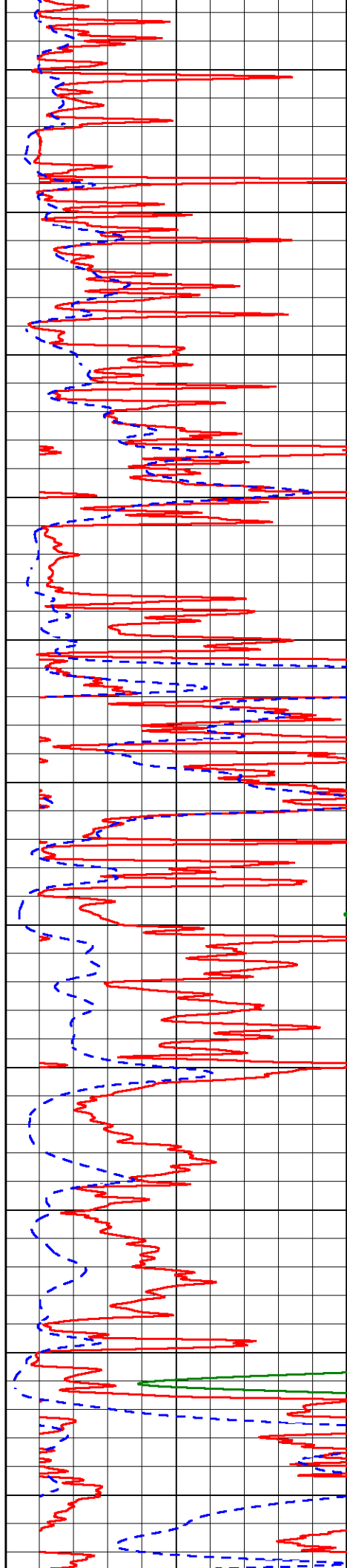
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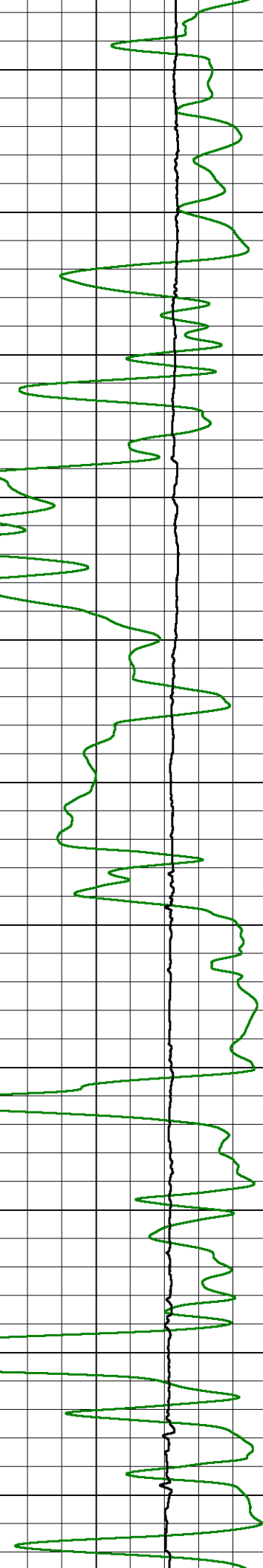
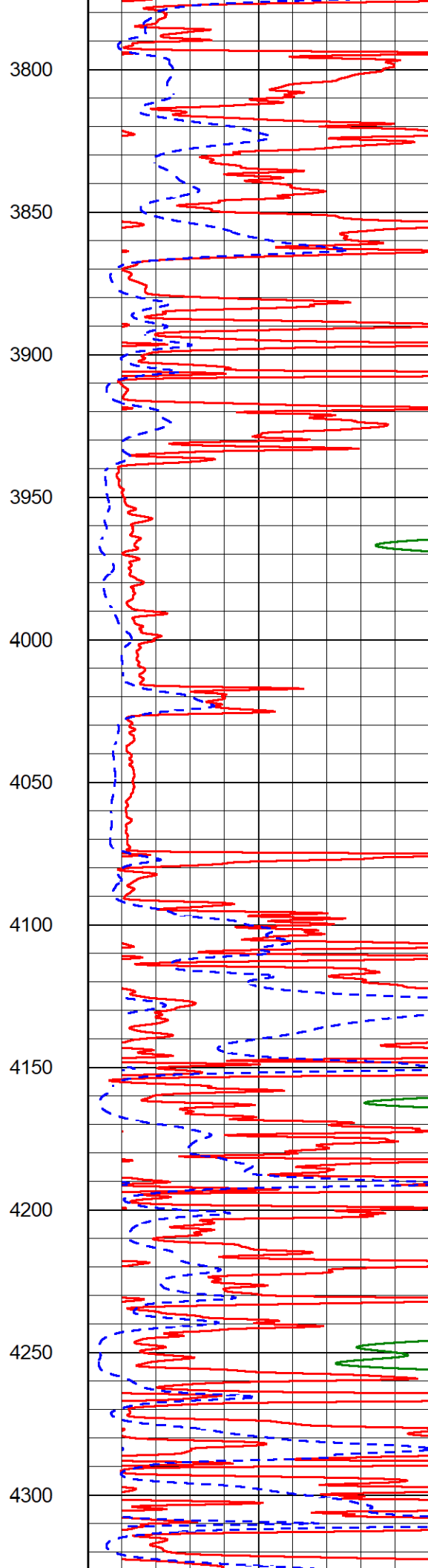
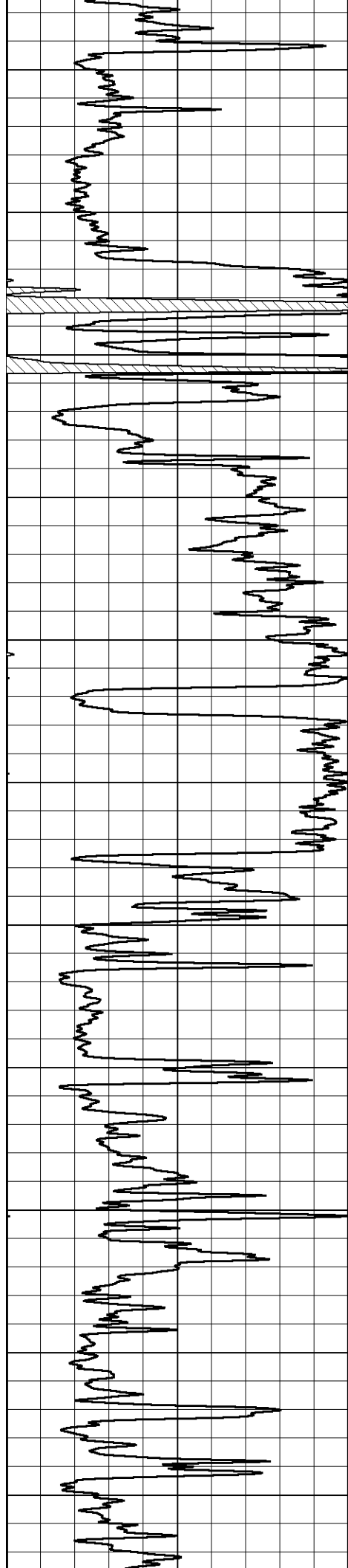
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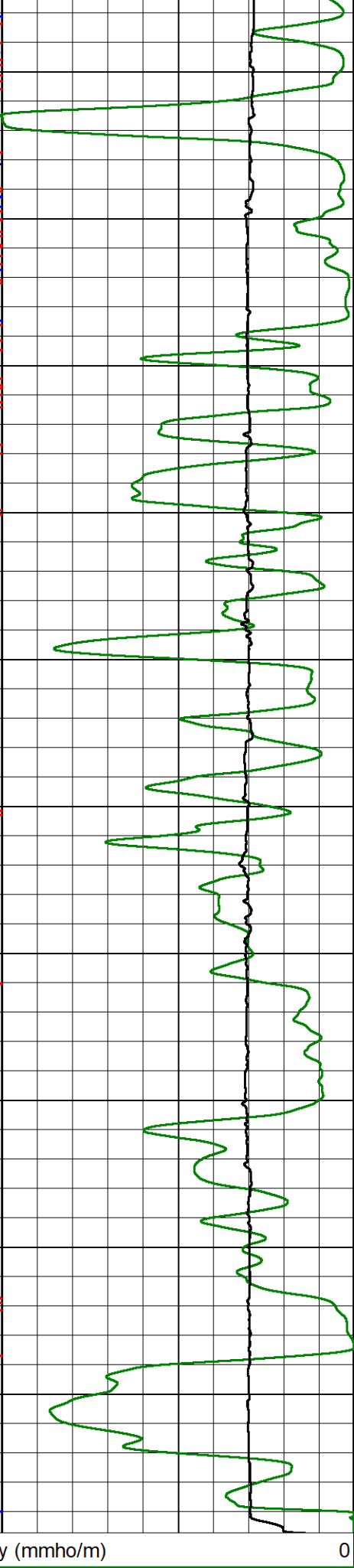
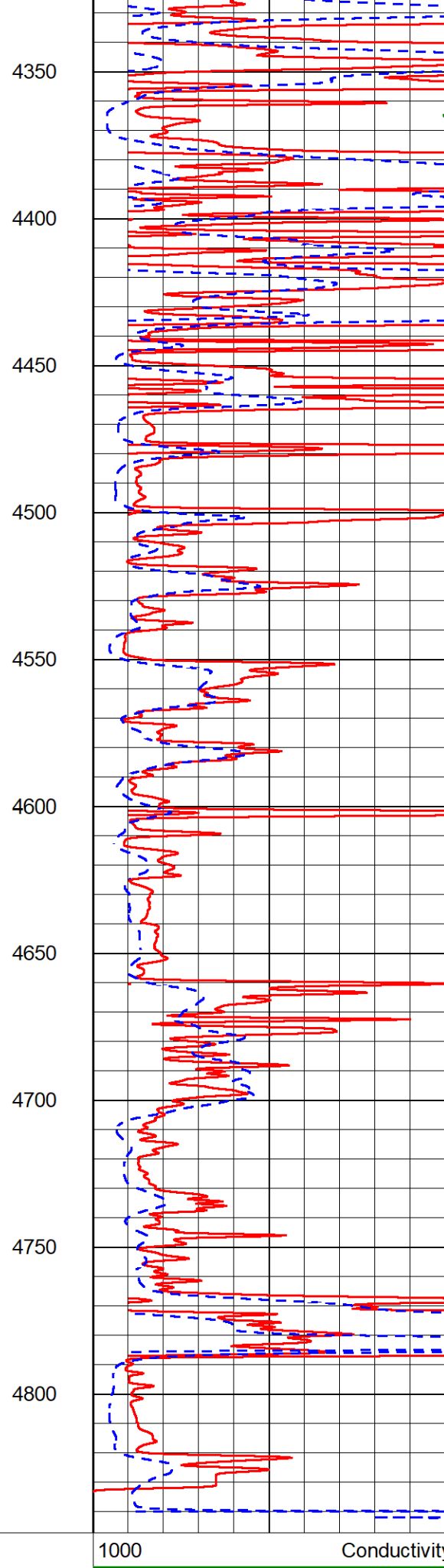
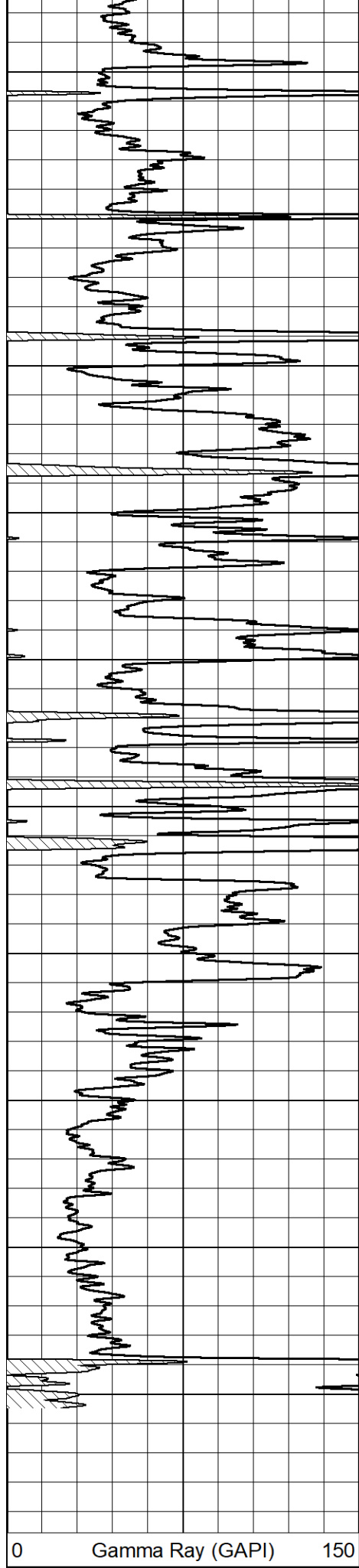
3650

3700

3750







0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
Shallow Resistivity		
50	(Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200



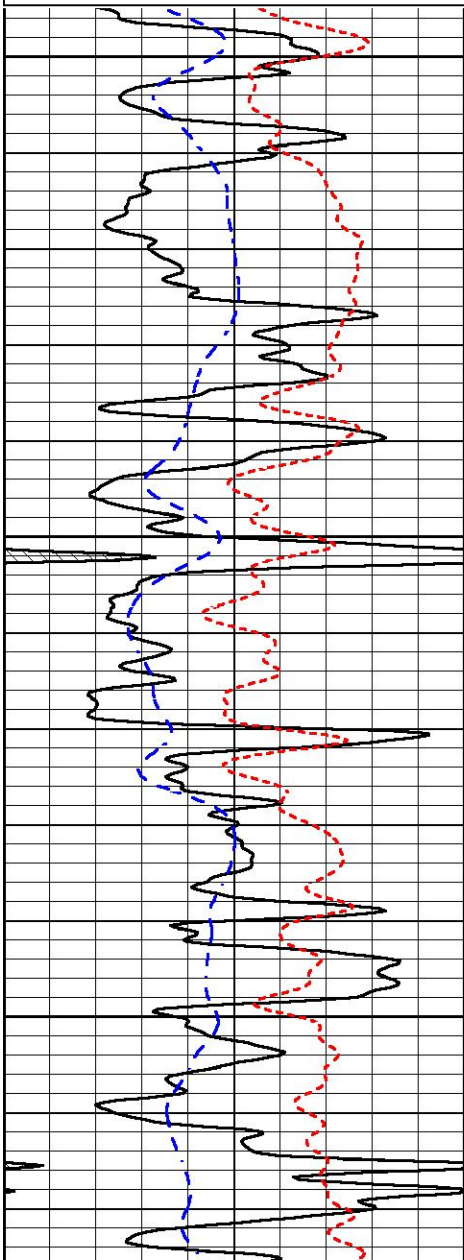
DETAIL SECTION

MAIN PASS

Database File griffin_whitley #1.db
 Dataset Pathname StkMI/pass3.1
 Presentation Format _dil
 Dataset Creation Wed Mar 02 09:46:13 2022
 Charted by Depth in Feet scaled 1:240

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

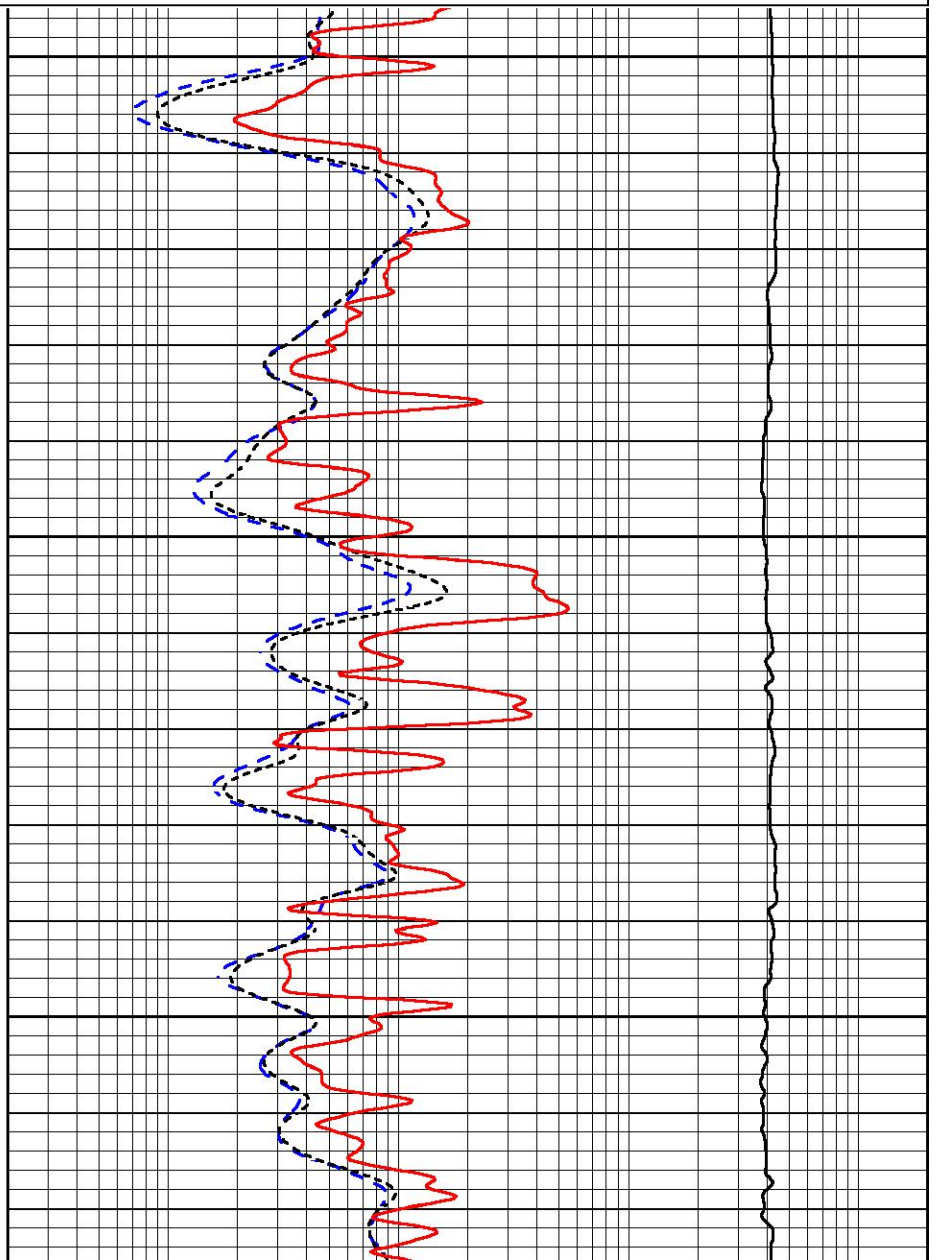
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

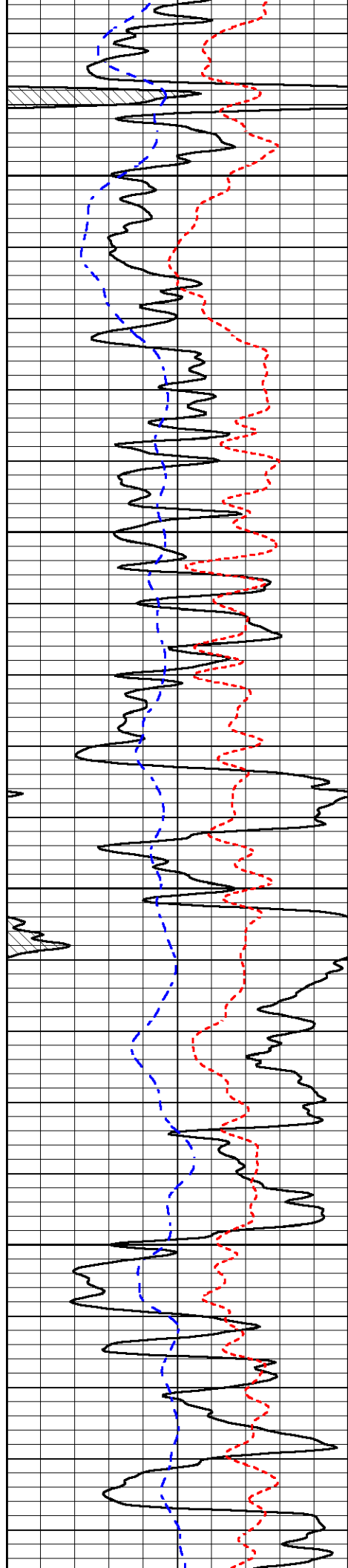


2800

2850

2900



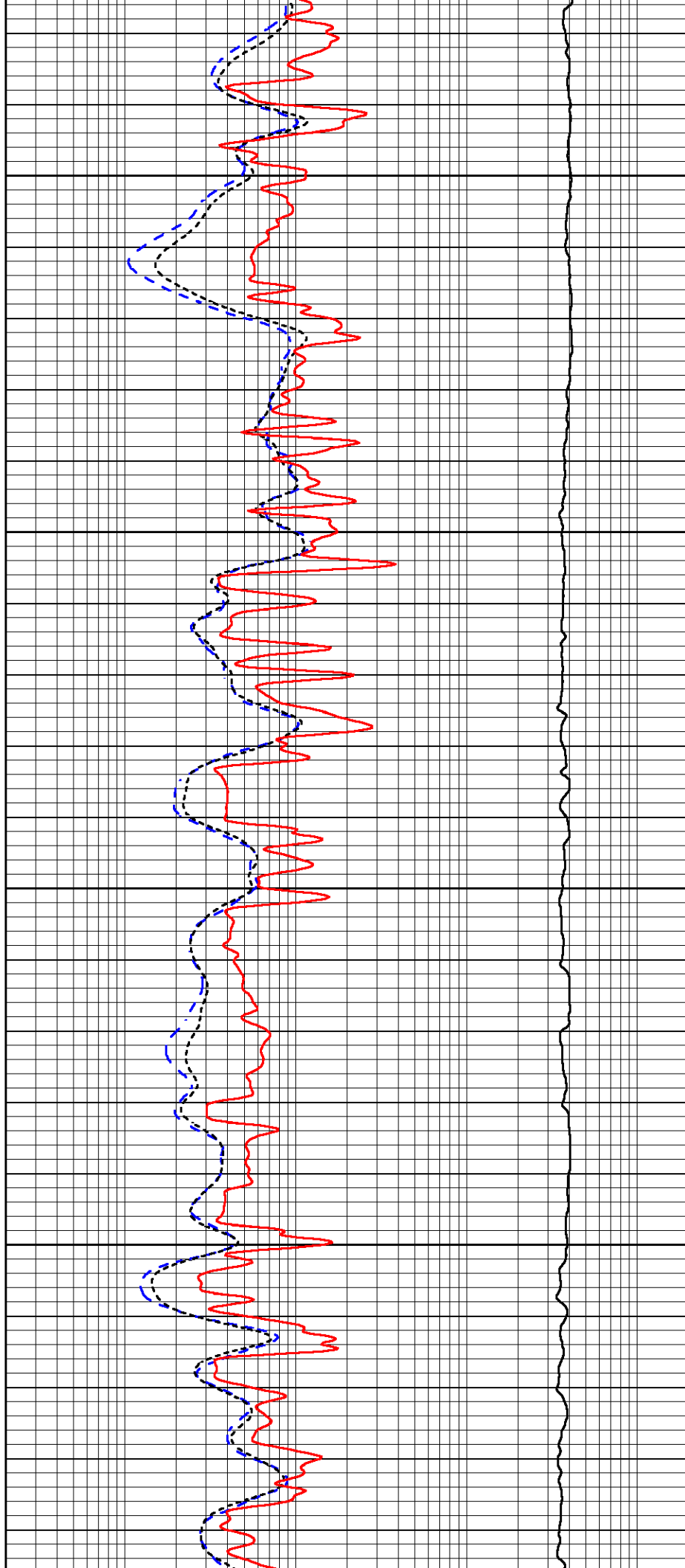


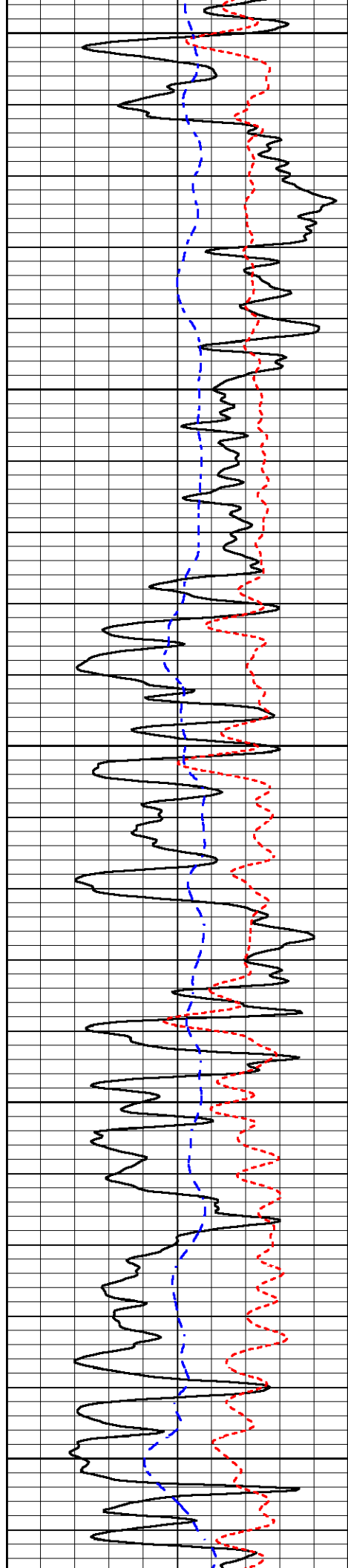
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3000

3050

3100





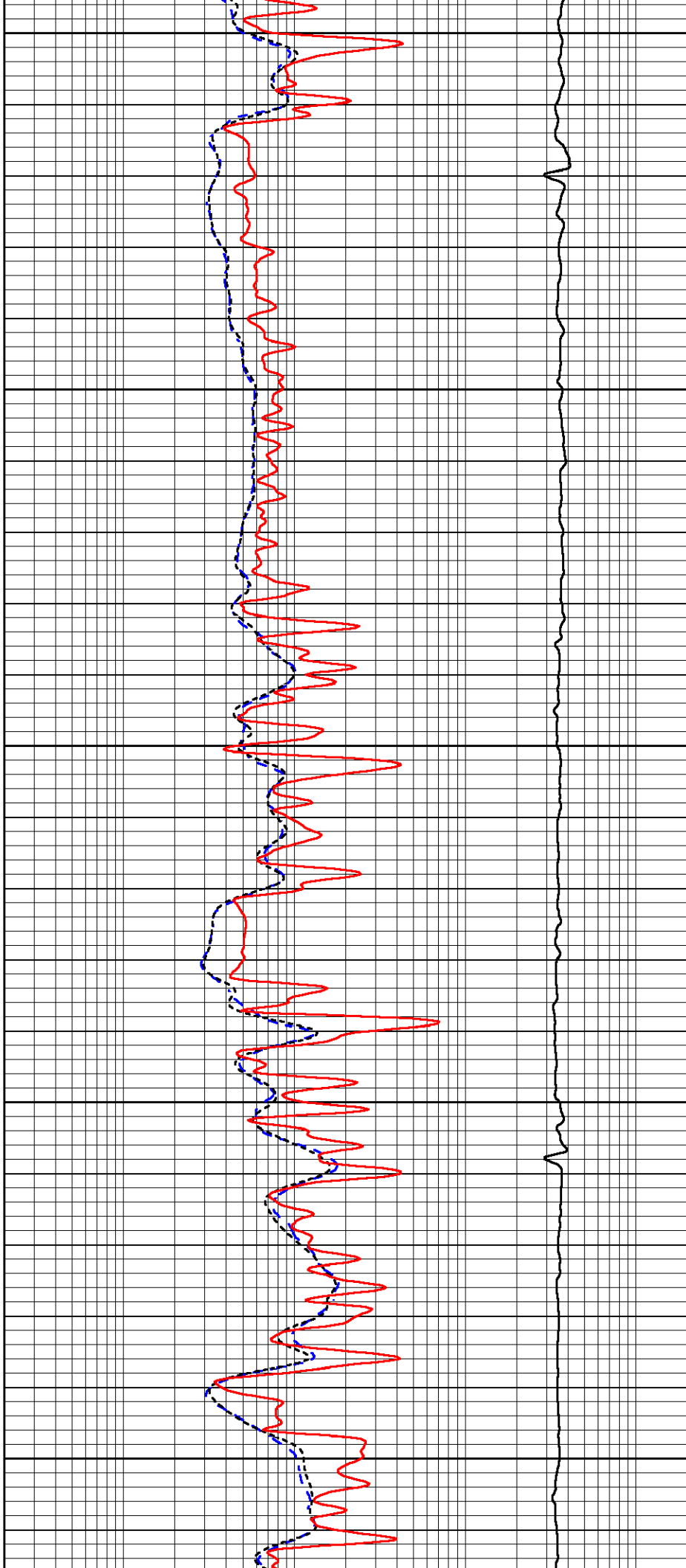
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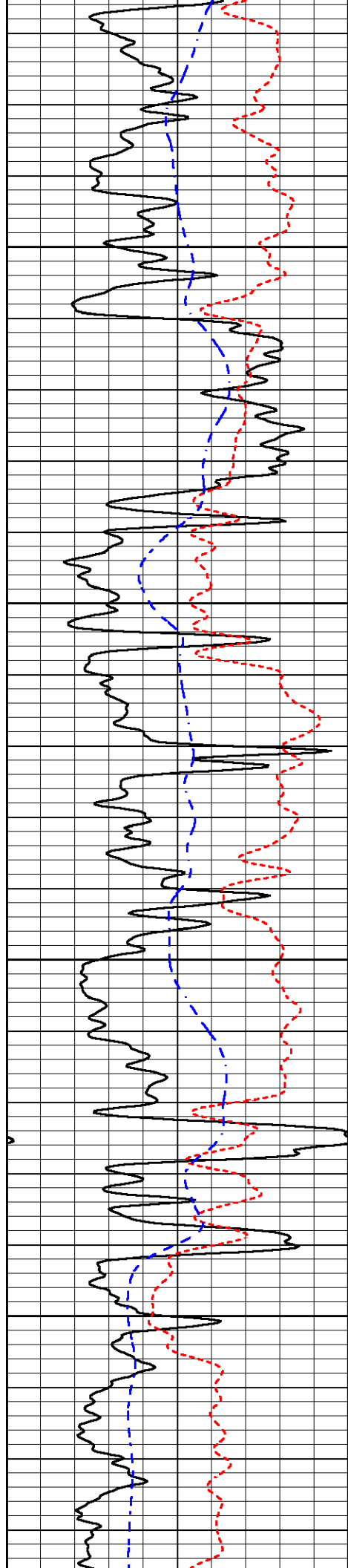
3200

3250

3300

3350



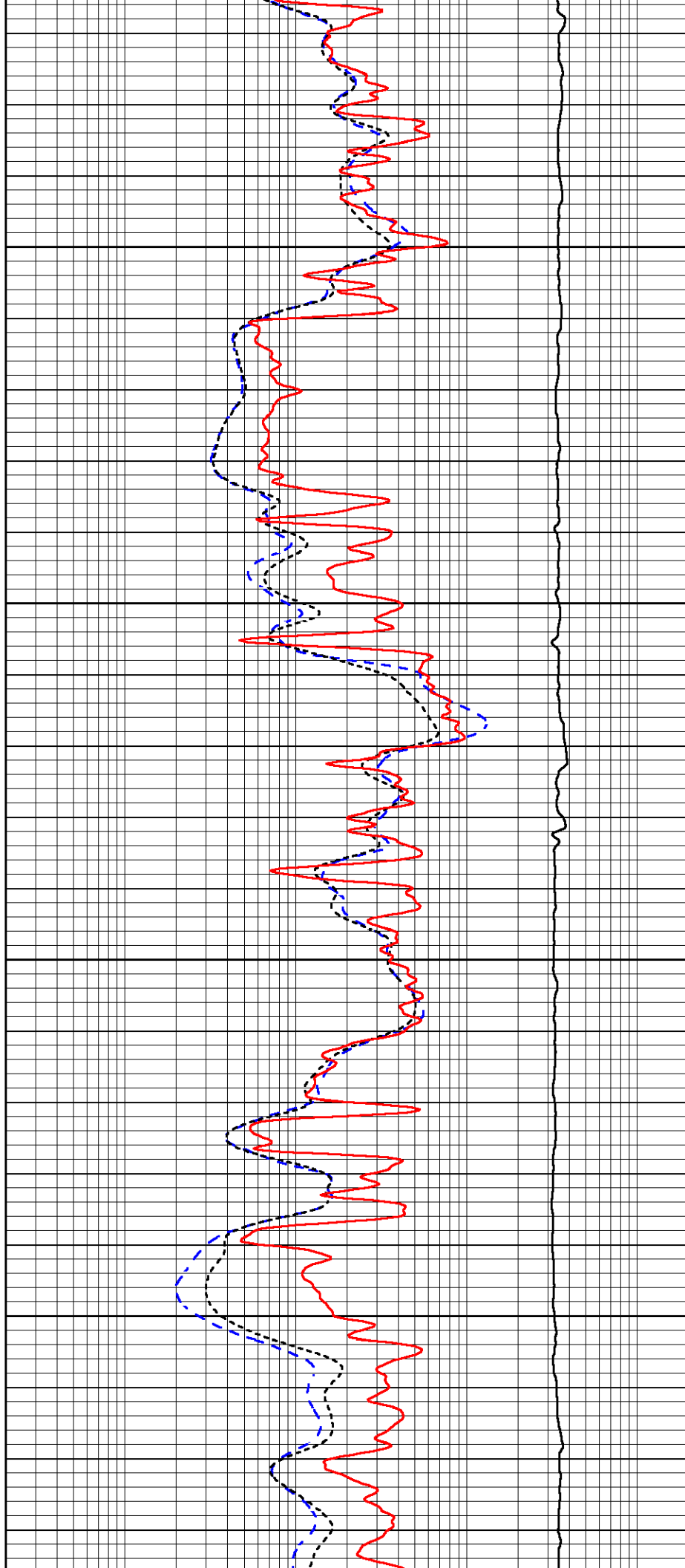


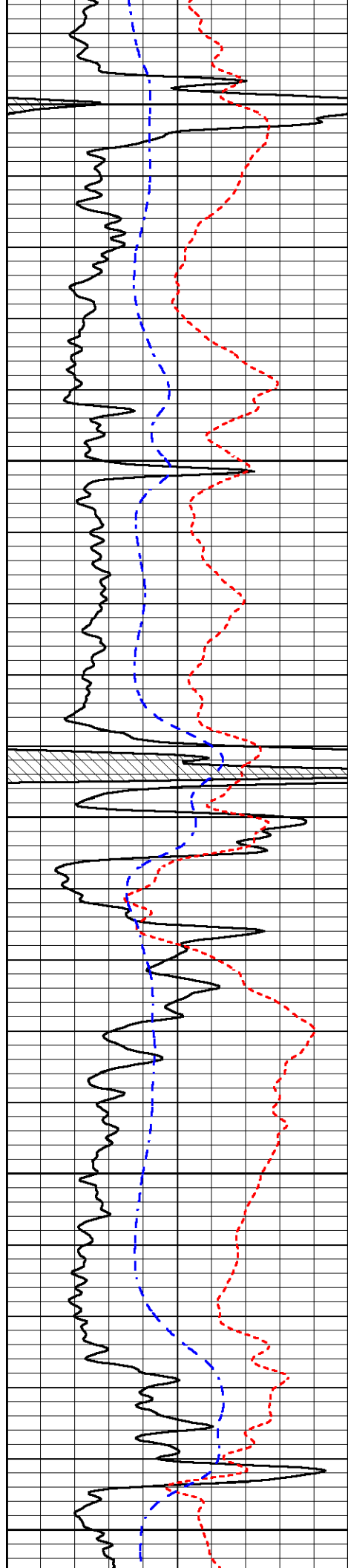
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3450

3500

3550





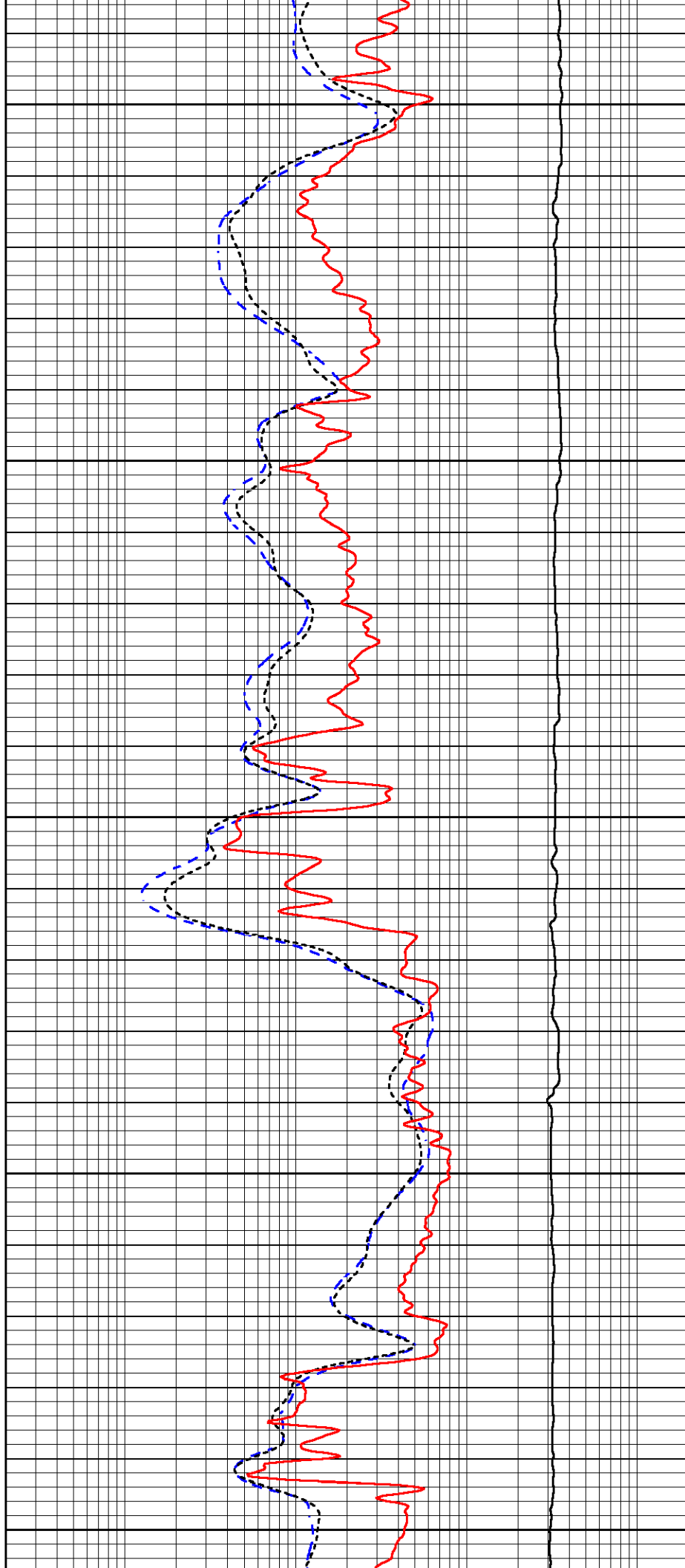
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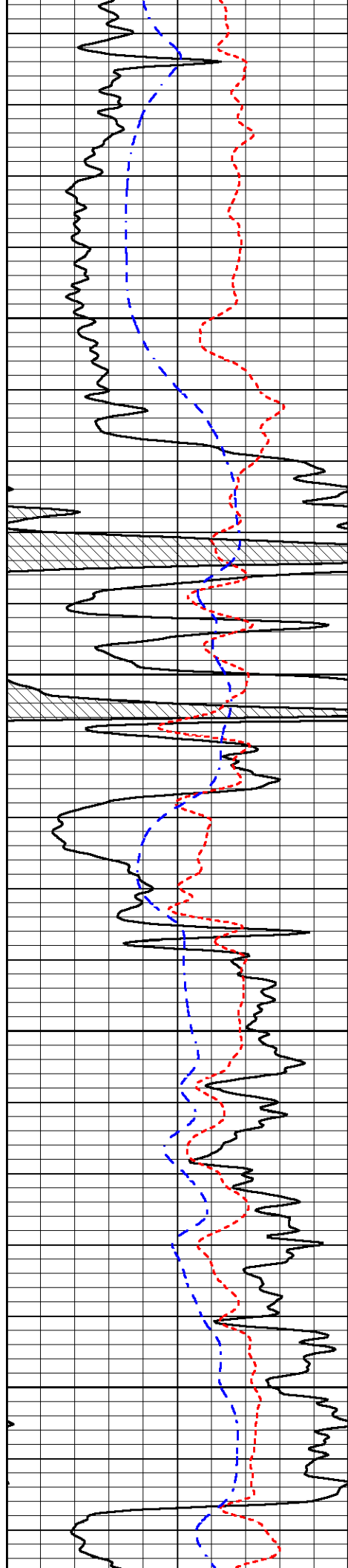
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3700

3750

3800



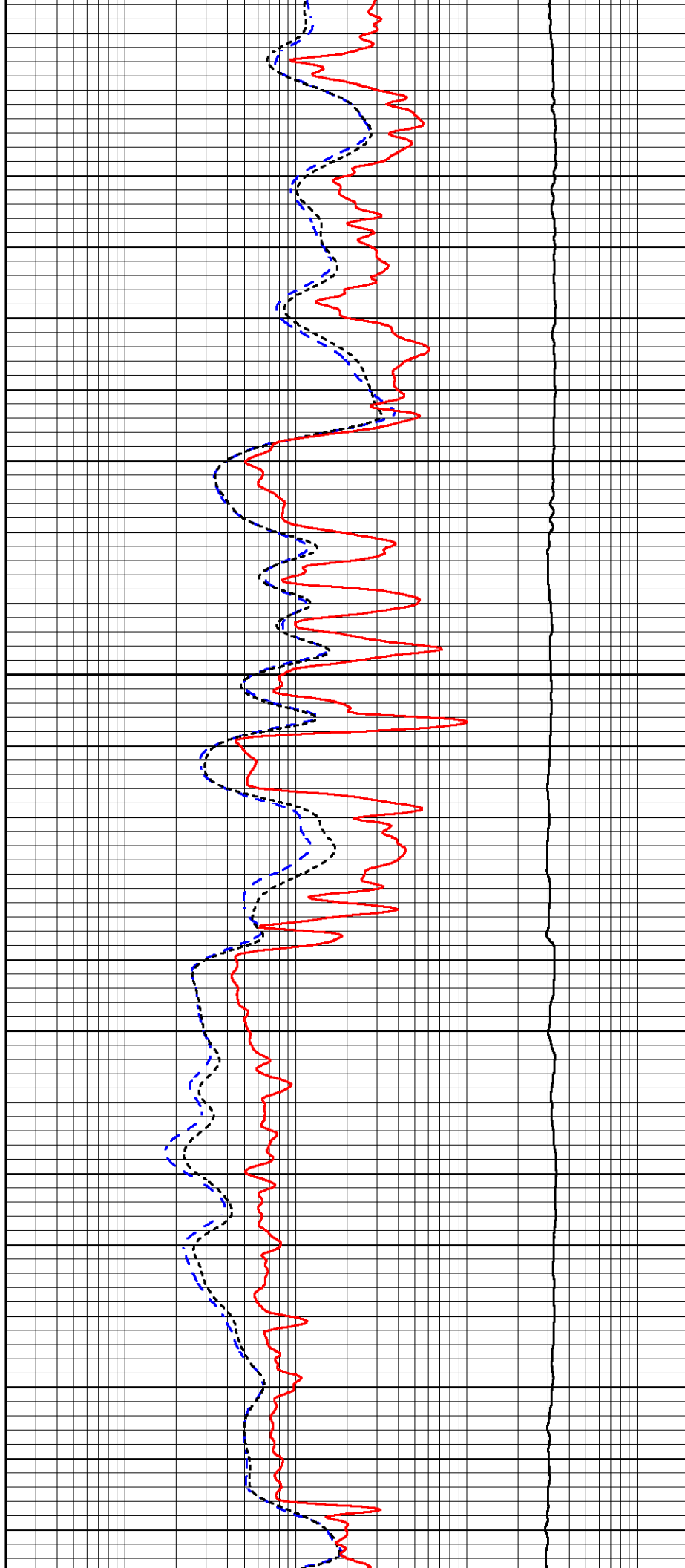


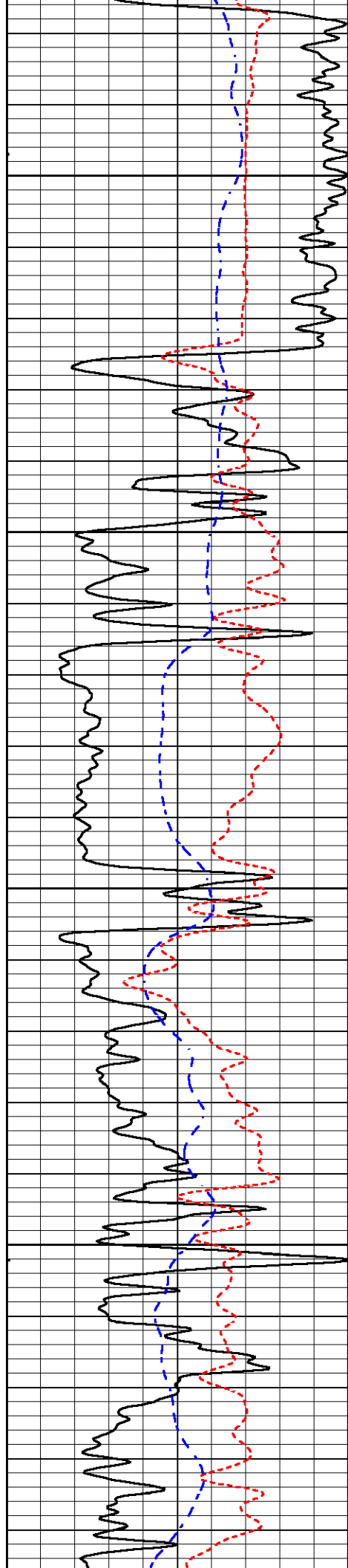
3850

3900

3950

4000



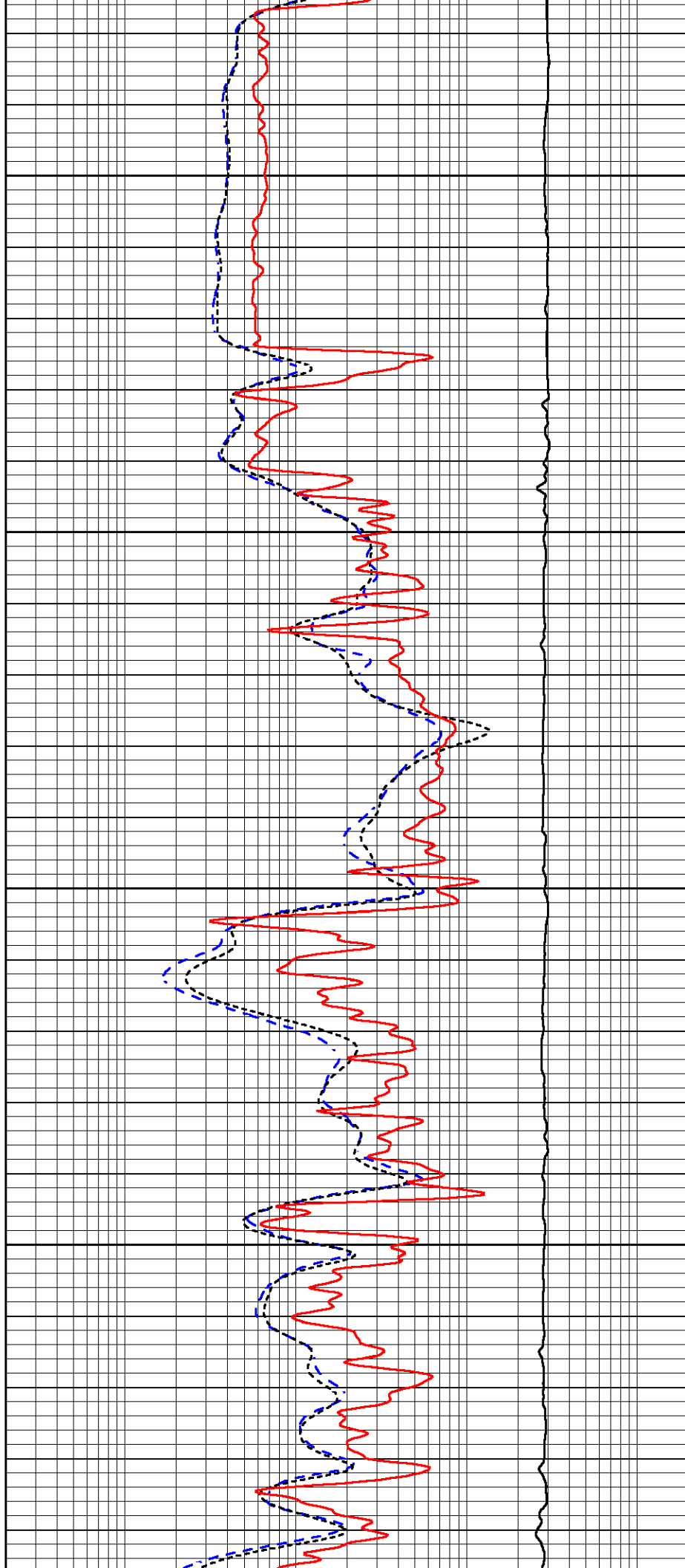


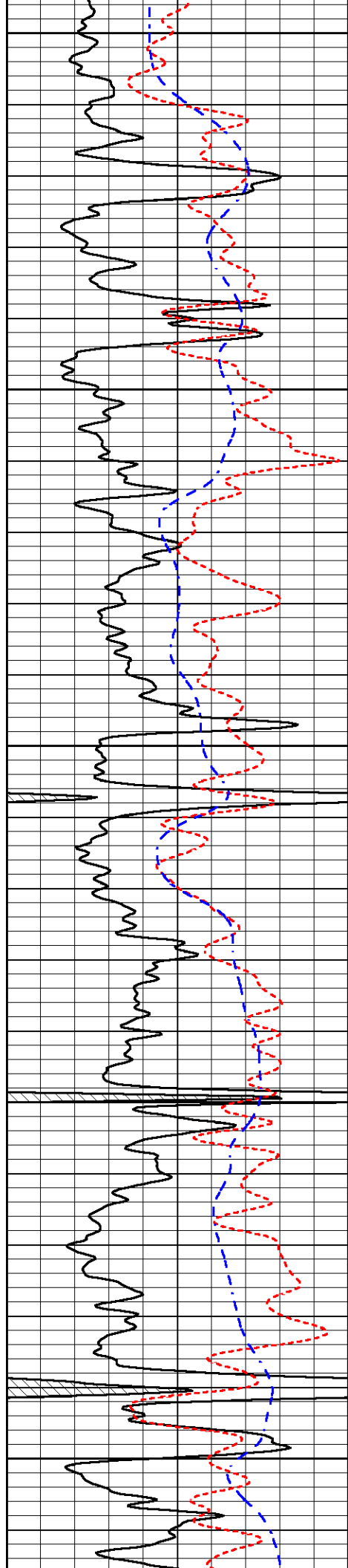
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4100

4150

4200





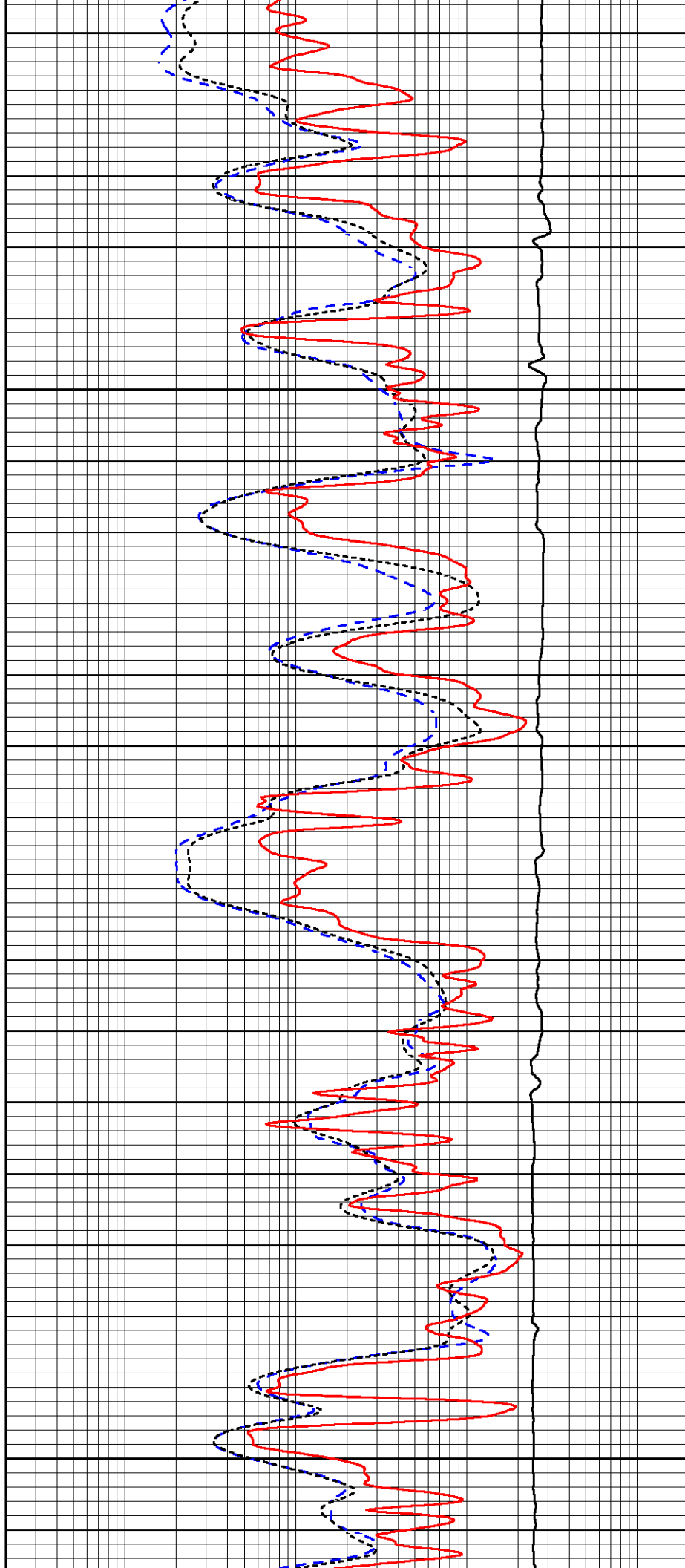
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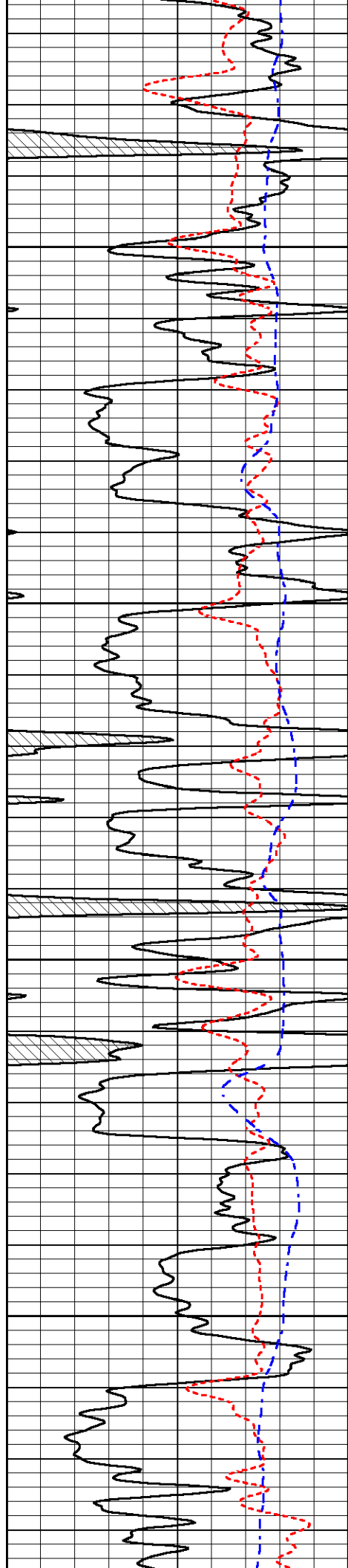
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4350

4400

4450



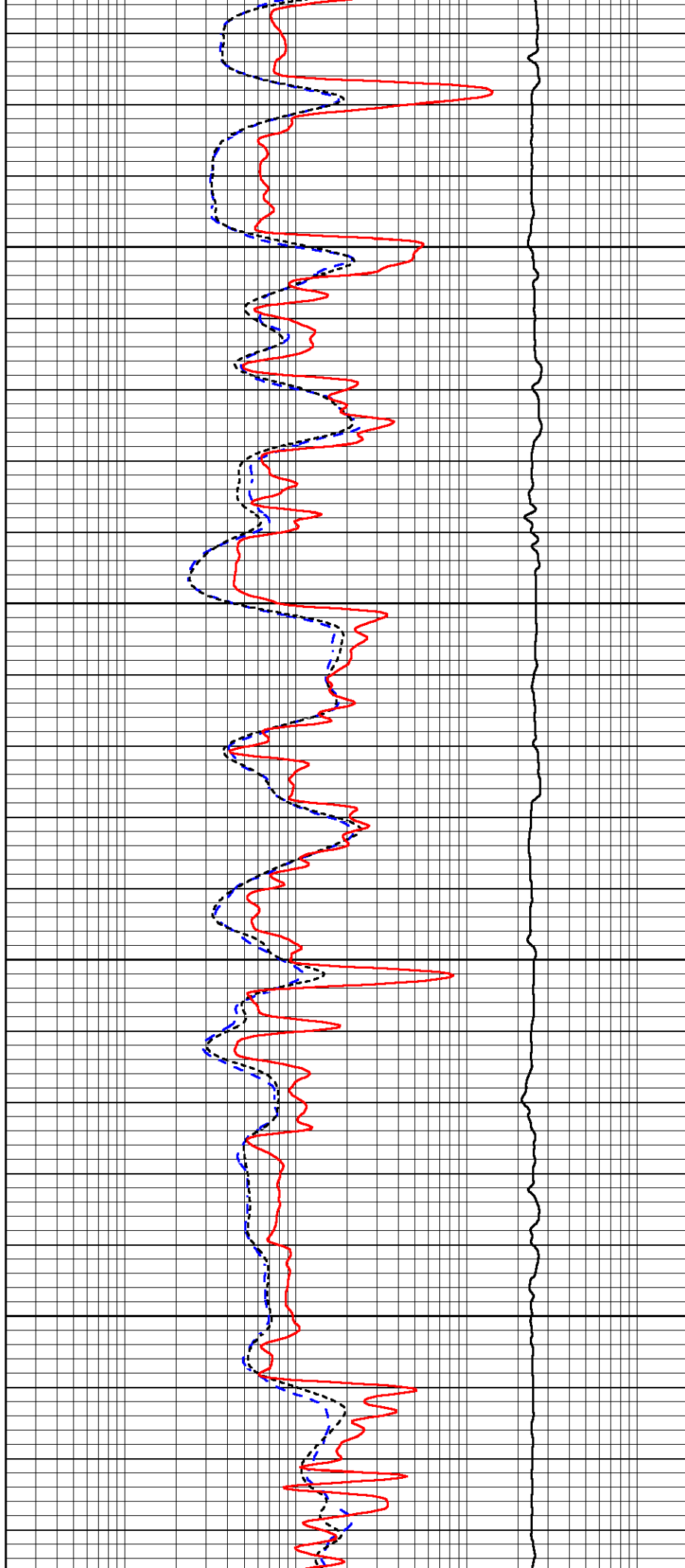


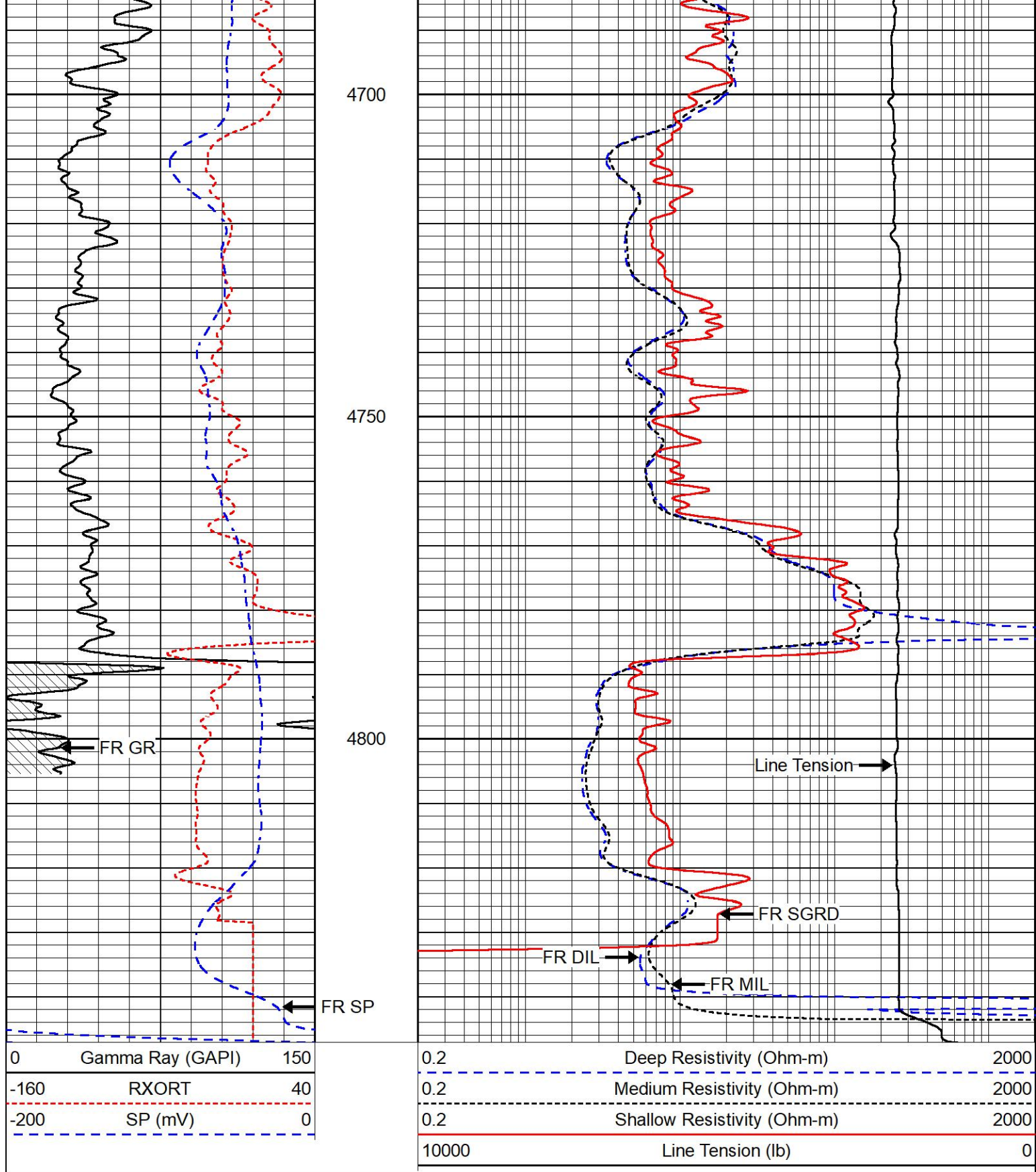
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4550

4600

4650





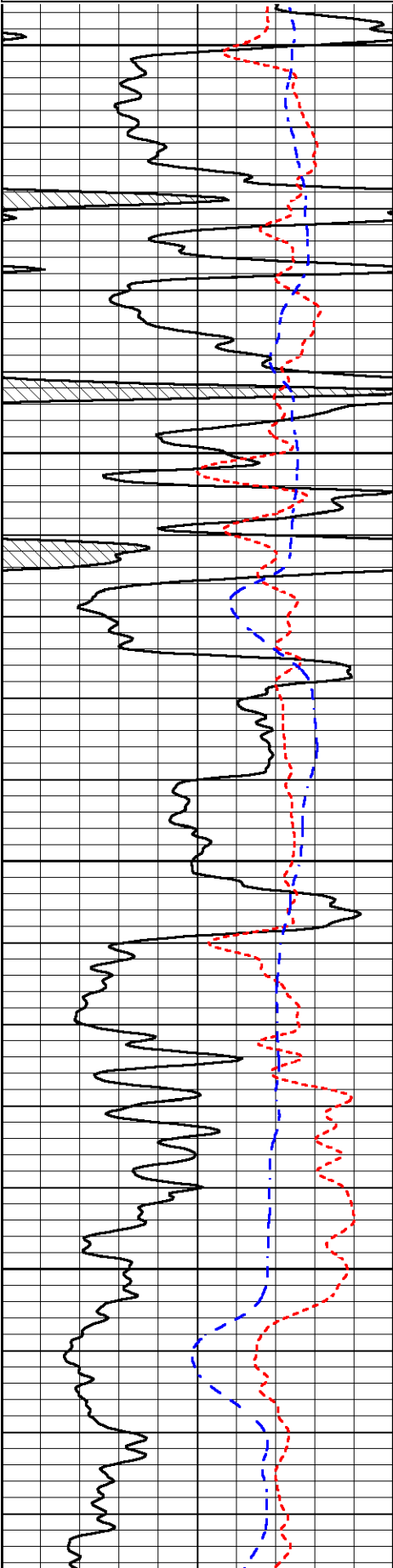
REPEAT SECTION

REPEAT PASS

Database File griffin_whitley #1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _dil
 Dataset Creation Wed Mar 02 00:07:08 2022

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

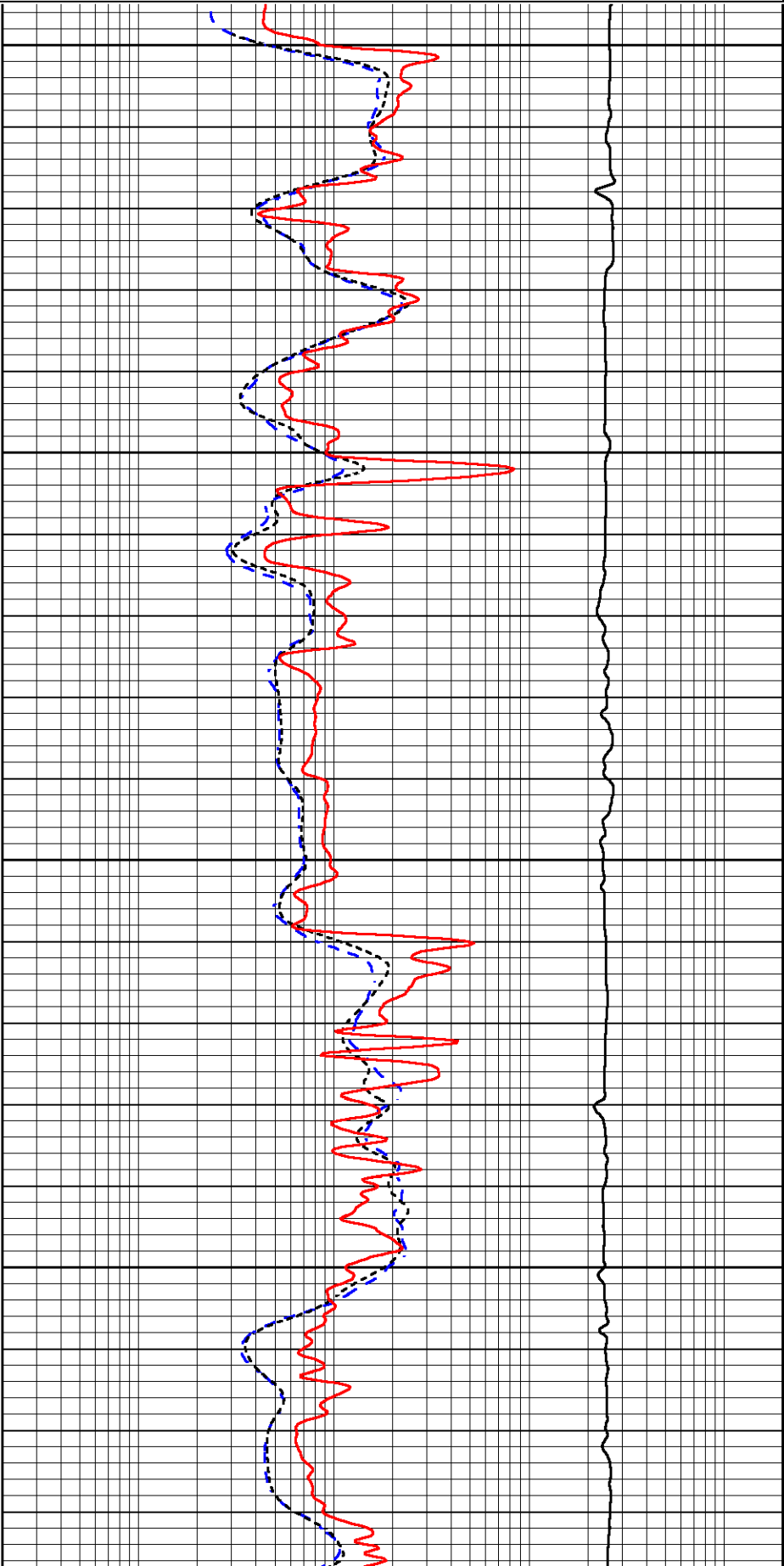


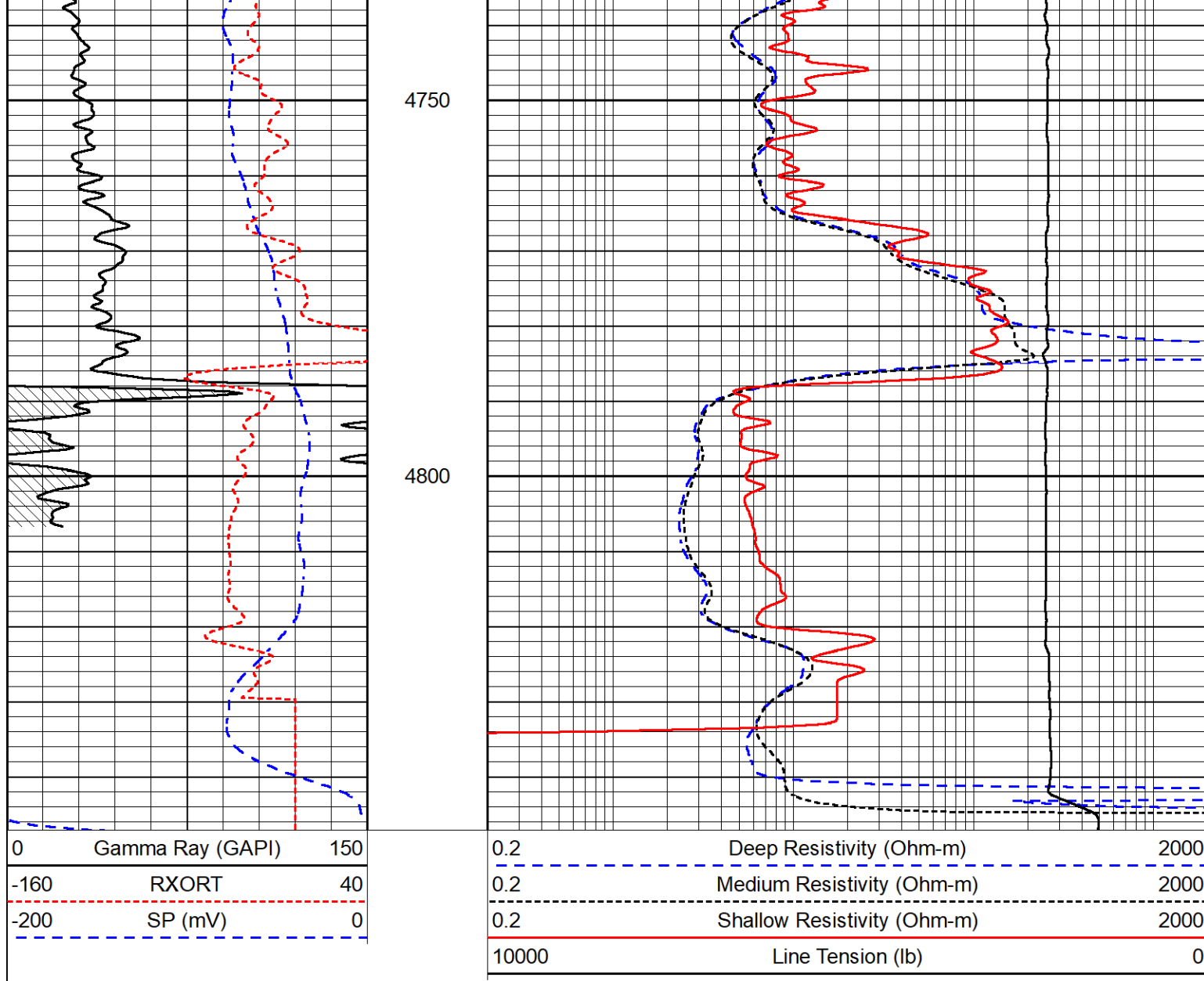
4550

4600

4650

4700





Calibration Report							
Database File	griffin_whitley #1.db						
Dataset Pathname	StkMI/pass3.1						
Dataset Creation	Wed Mar 02 09:46:13 2022						
Dual Induction Calibration Report							
Serial-Model:		504 HT-M&W					
Surface Cal Performed:		Thu Dec 16 22:32:49 2021					
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-20.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-51.000
Microlog Calibration Report							
Serial-Model:		402-PSI STKBL ML					
Performed:		Thu Dec 16 22:29:48 2021					
Readings		References			Results		

	Zero	Cal		Zero	Cal		m	b
Normal	0.0037	0.0043		0.0000	10.0000	Ohm-m	21000.0000	-1.0000
Inverse	0.1208	0.0013		0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834		5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report			
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	1.05		

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	

 MIDWEST WIRELINE	Company	Griffin Management LLC
	Well	Whitley #1
	Field	Moffett West
	County	Barber
	State	Kansas