



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Griffin Management, LLC		Company Griffin Management, LLC	
Well	Scottie #1	Well	Scottie #1
Field	Moffett West	Field	Moffett West
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24422-00-00		Other Services	
SEC 9 TWP 30S RGE 15W		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	1946
Log Measured From	Kelly Bushing	K.B.	1951
Drilling Measured From	Kelly Bushing	D.F.	1946
		G.L.	1946
Date	6/5/2022		
Run Number	One		
Depth Driller	4785		
Depth Logger	4786		
Bottom Logged Interval	4785		
Top Log Interval	250		
Casing Driller	8.625 @ 264		
Casing Logger	261		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6000		
Density / Viscosity	9.6	62	
pH / Fluid Loss	9.5	9.6	
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 65		
Rmt @ Meas. Temp	0.54 @ 65		
Rmc @ Meas. Temp	0.21 @ 65		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.21 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-108		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Charles Griffin	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,
South to 110, East to 130,
South to location

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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

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

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 CNSSC	37.23 36.48			CNT-M&W (210)	5.00	3.50	100.00		
LSD DCAL SSD	28.18 28.17 27.68			CDL-M&W (303-03)	8.50	4.00	250.00		
MCAL MI MN	19.58 19.58 19.58			ML-PSI STKBL ML (401)	7.58	4.00	65.00		
RLL3F RLL3	15.50 15.50								
CILD	8.33								
CILM	4.50								
SP	0.20								
Dataset: Total length: Total weight: O.D.:				griffin_scottie 1.db: field/well/stkml/pass3.13 42.33 ft 685.00 lb 4.00 in					

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_scottie 1.db
Dataset field/well/stkml/pass3.13/_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 390	degF 60	Off	ft 4786

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

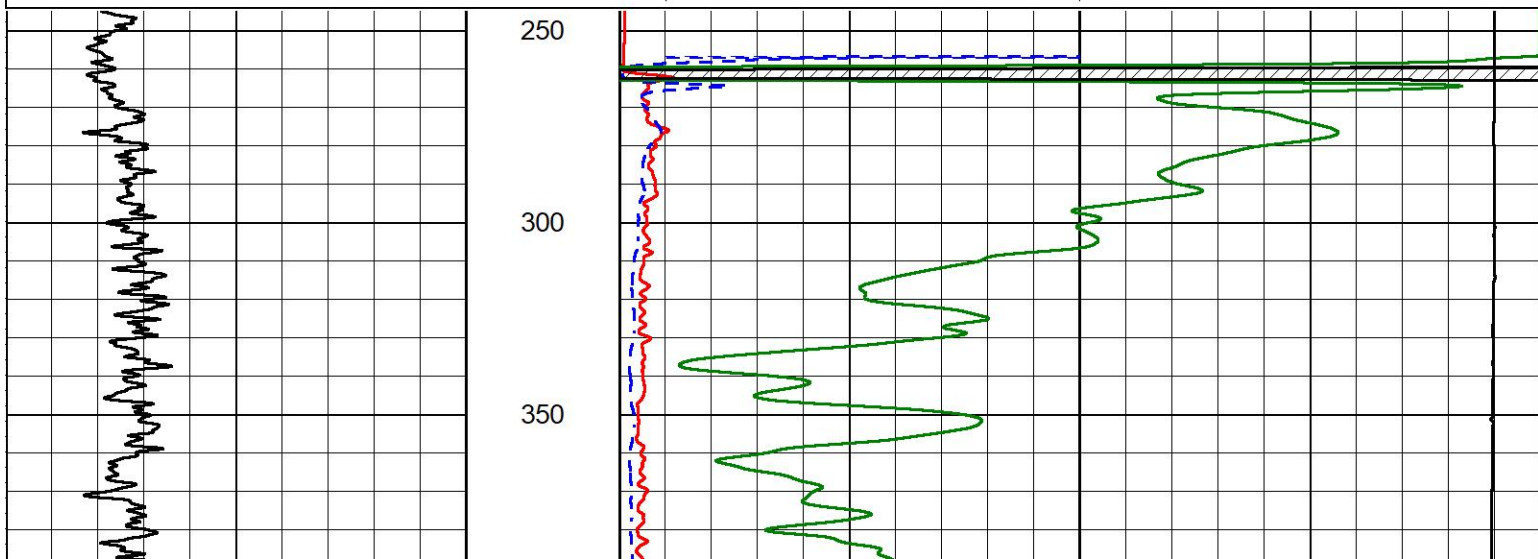


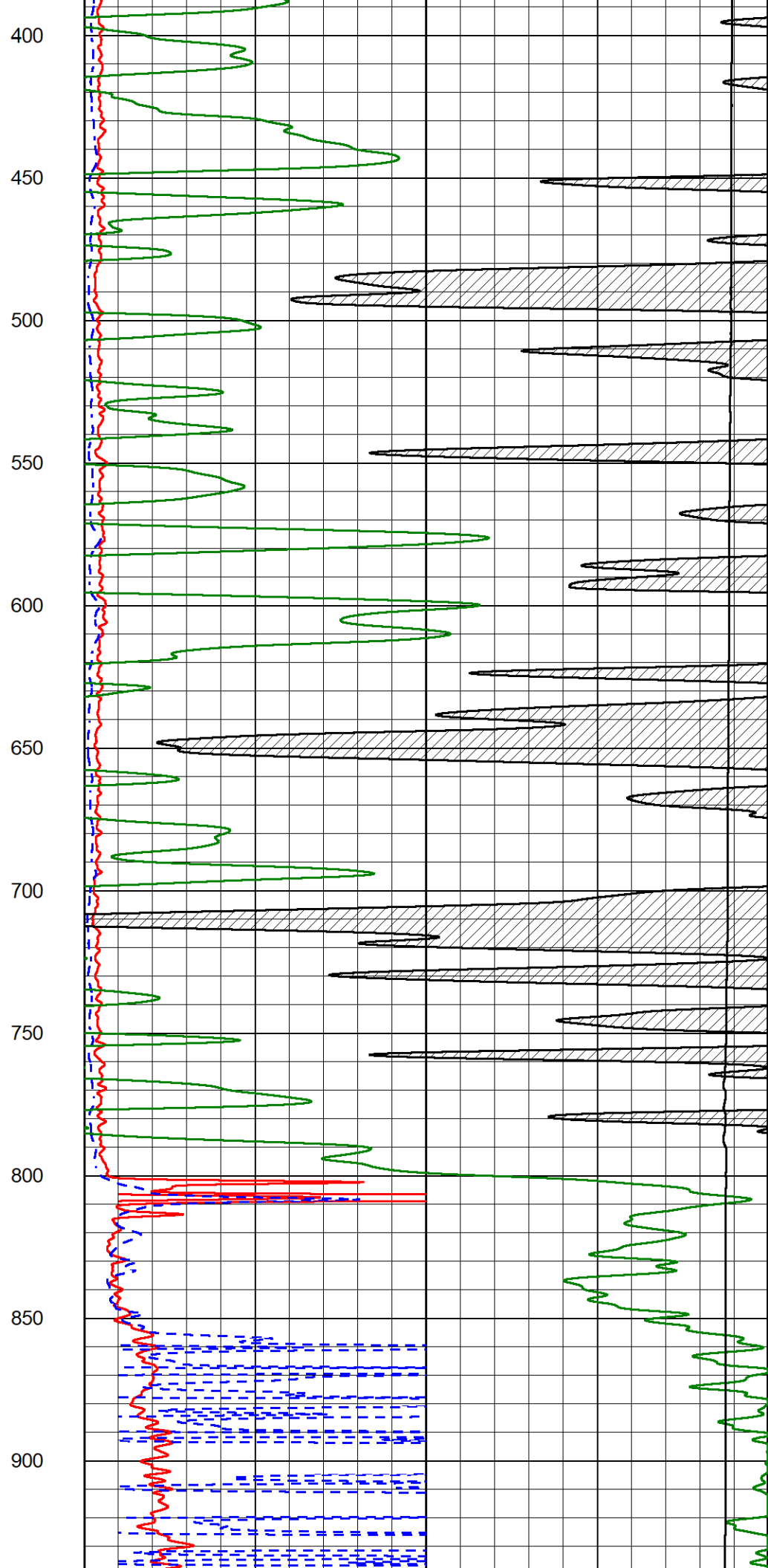
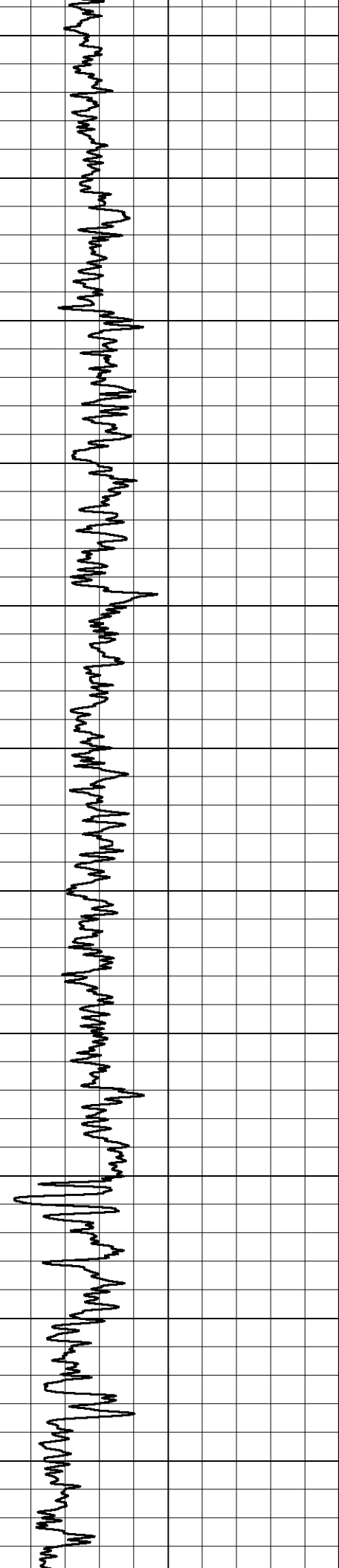
2" SCALE RESISTIVITY

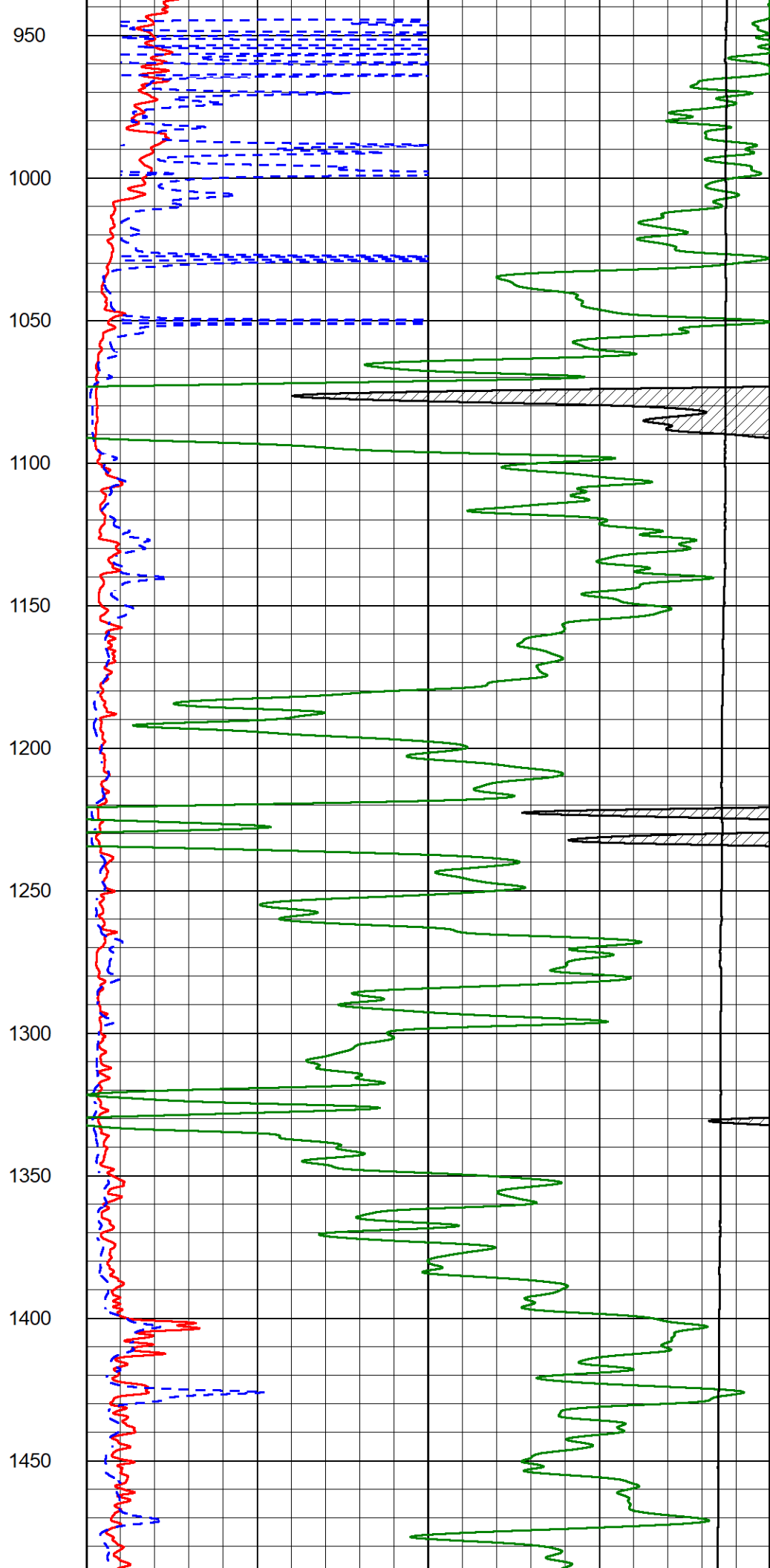
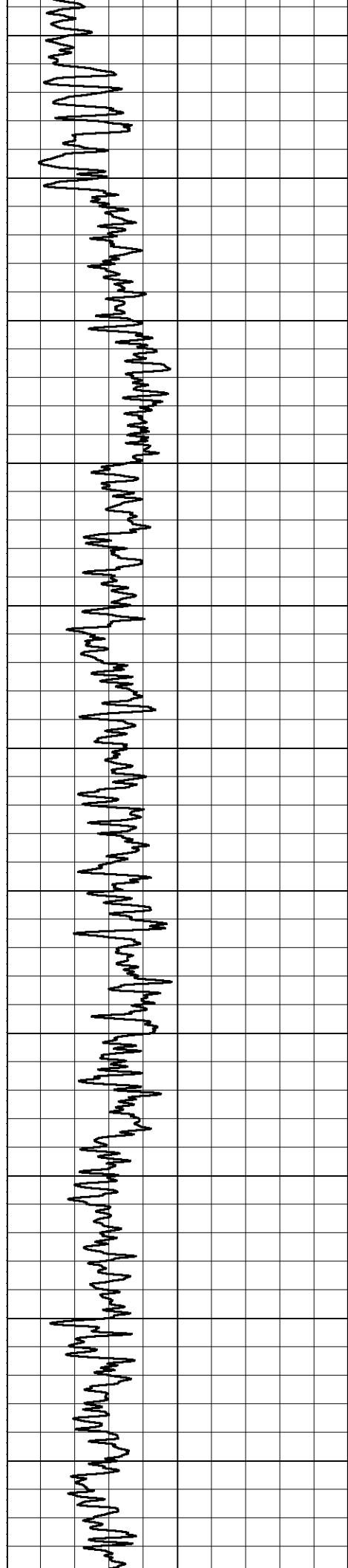
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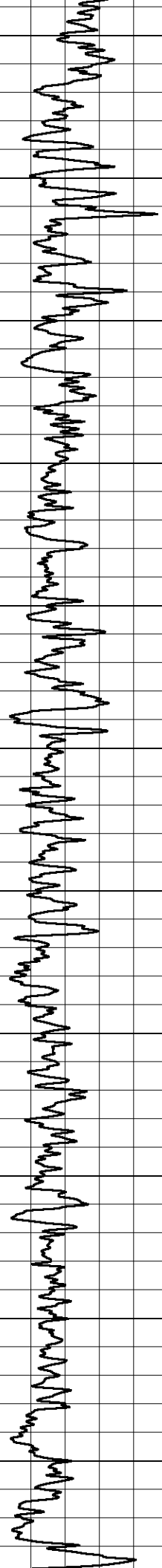
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Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Mon Jun 06 00:01:06 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	300	1000	Conductivity (mmho/m)	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









1500

1550

1600

1650

1700

1750

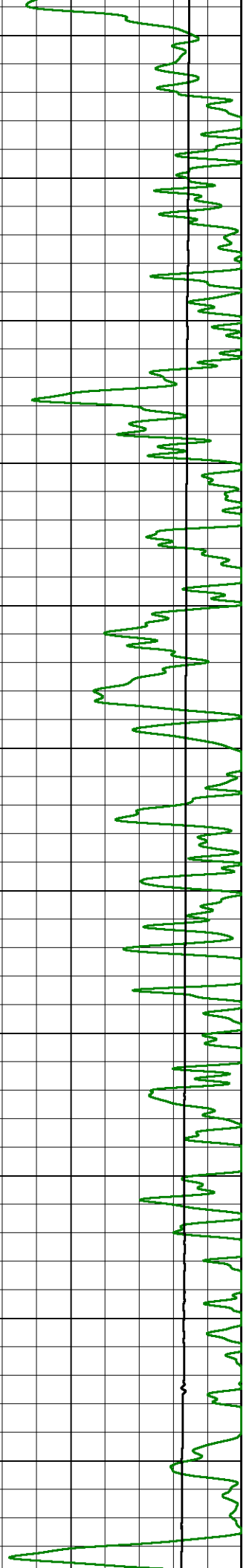
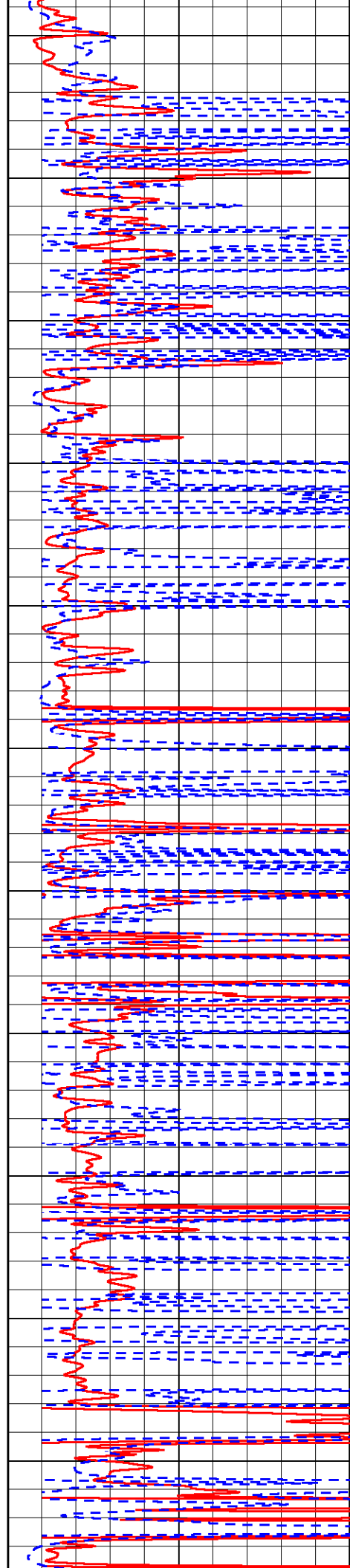
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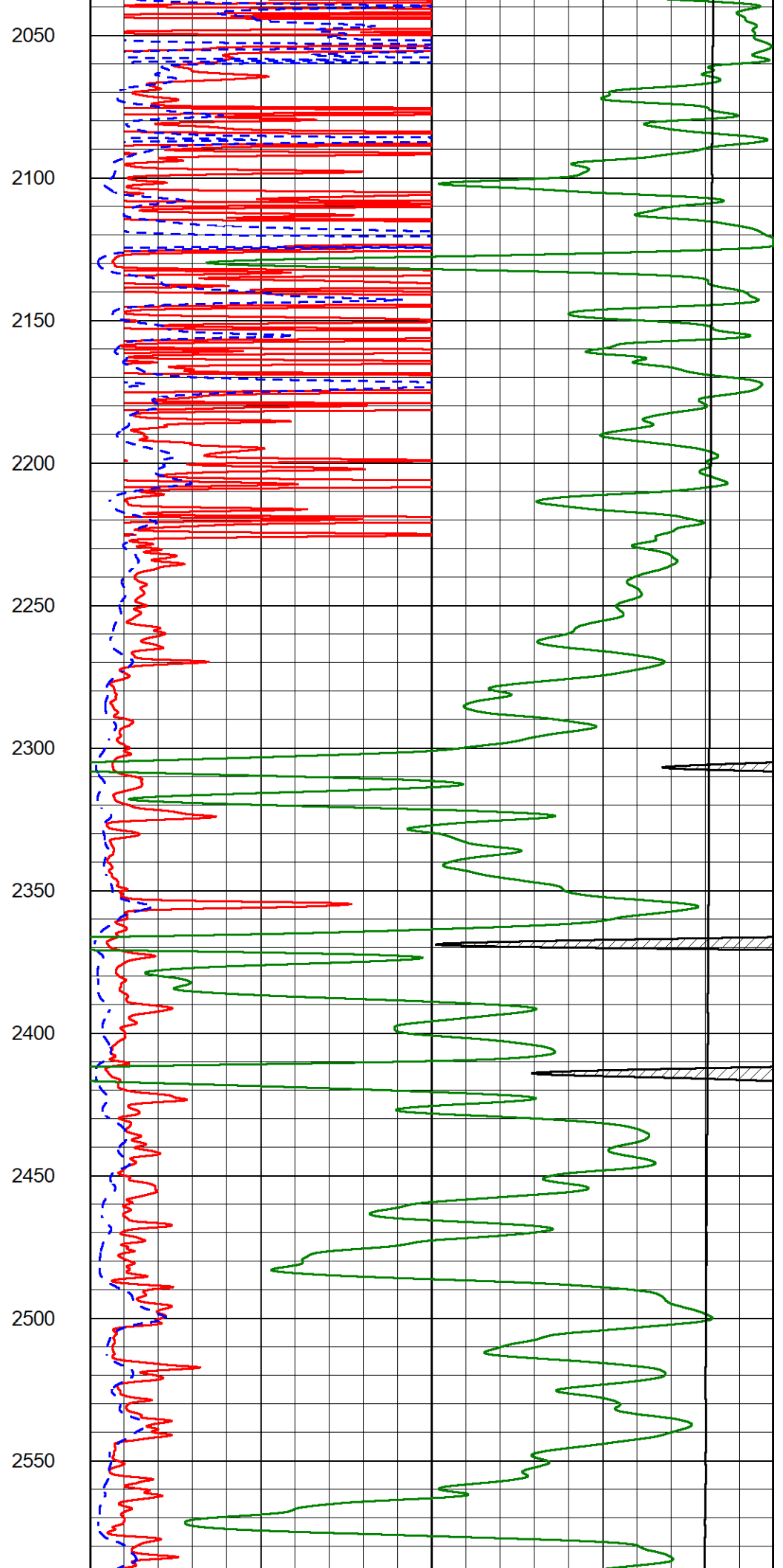
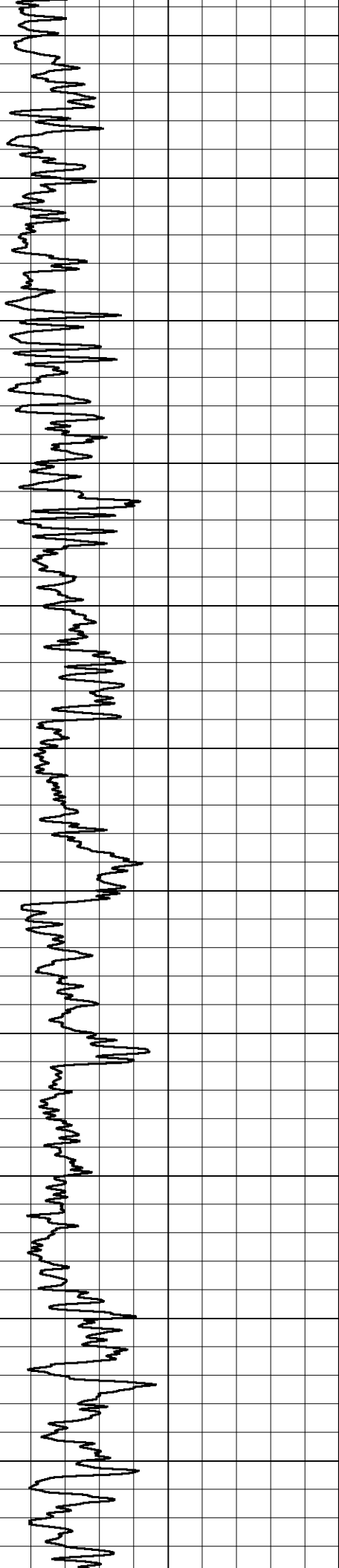
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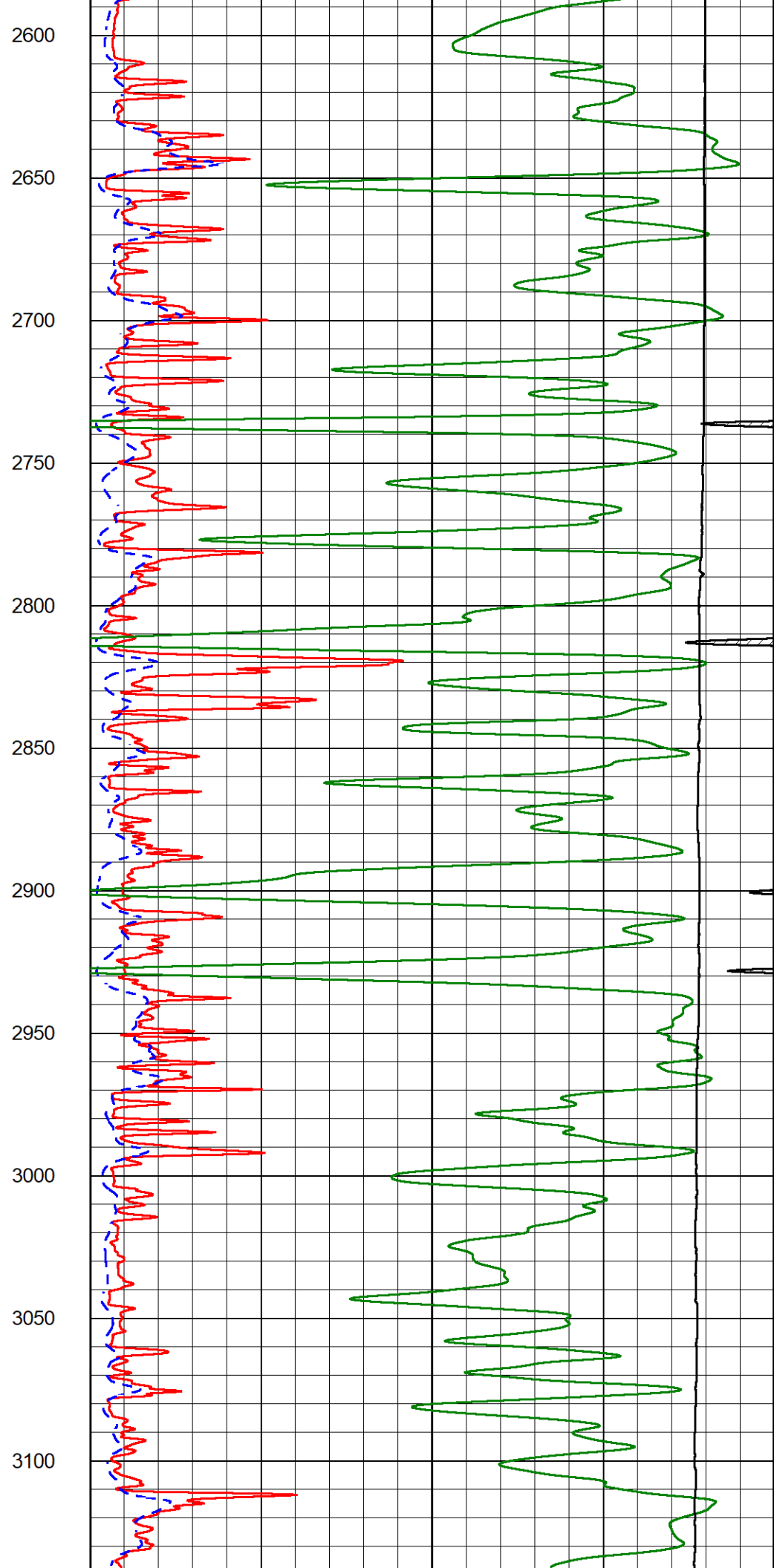
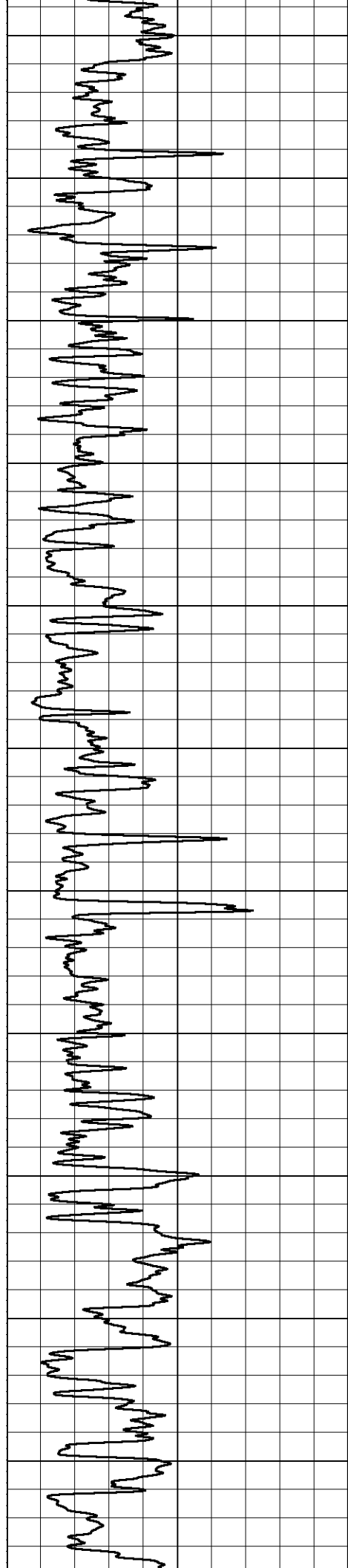
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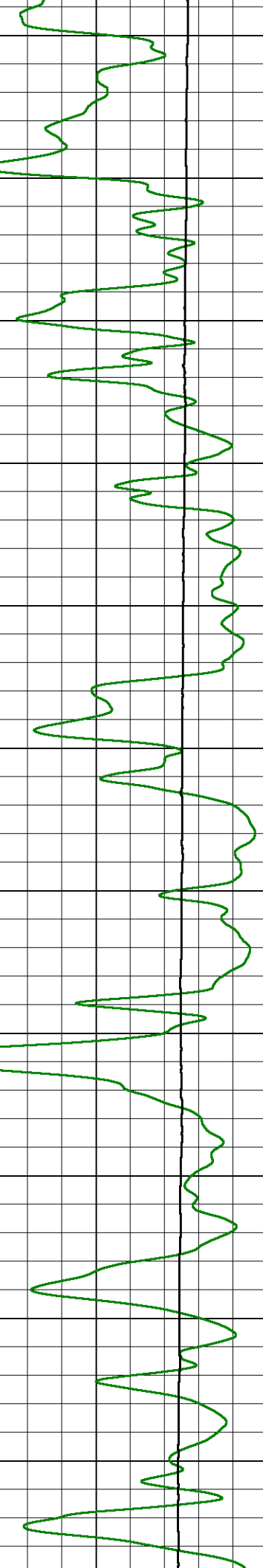
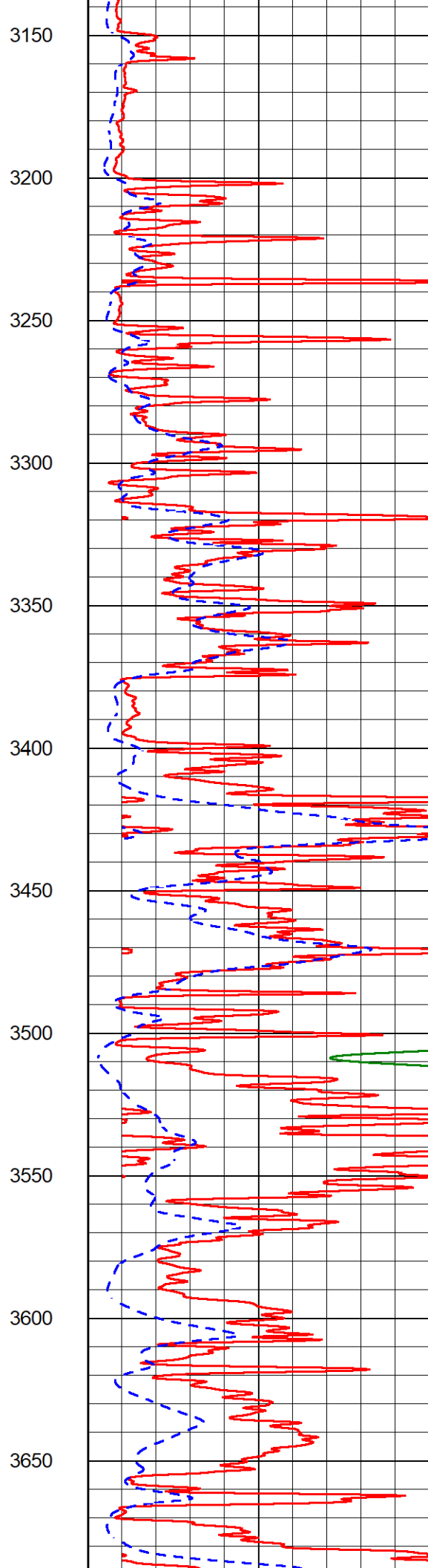
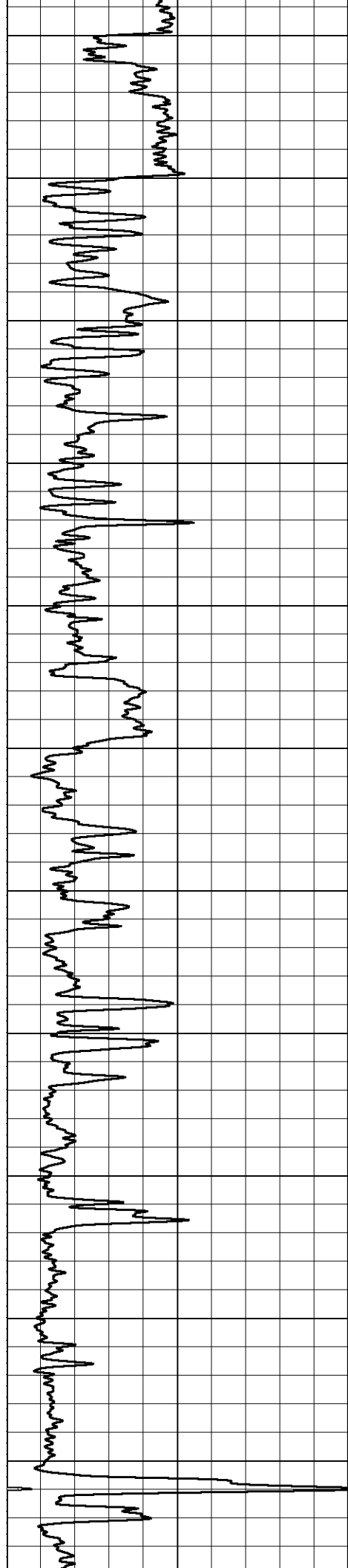
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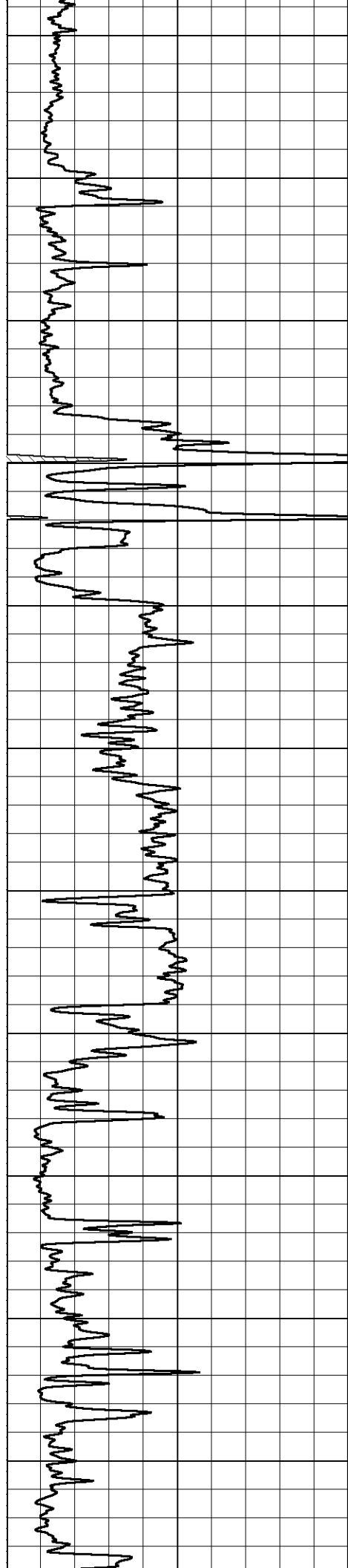
2000











3700

3750

3800

3850

3900

3950

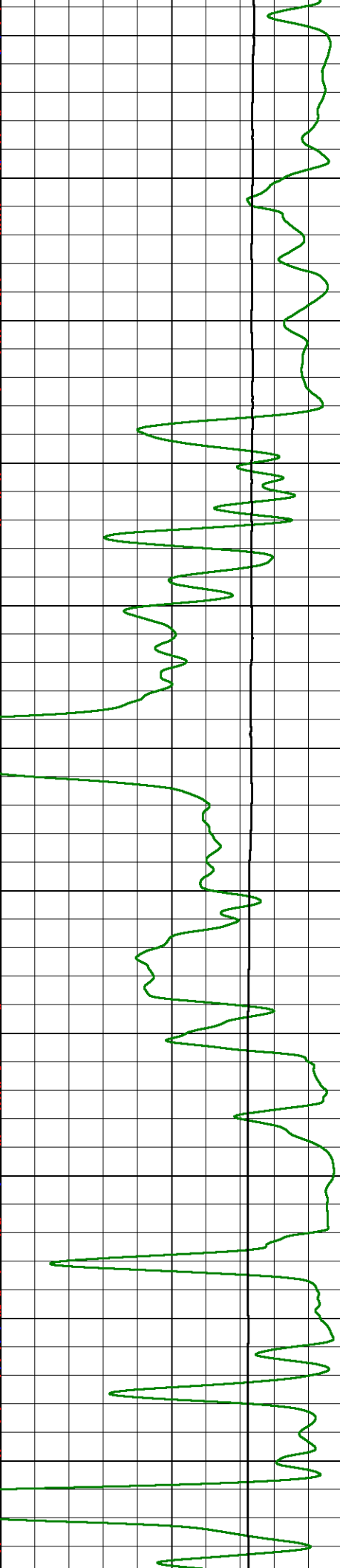
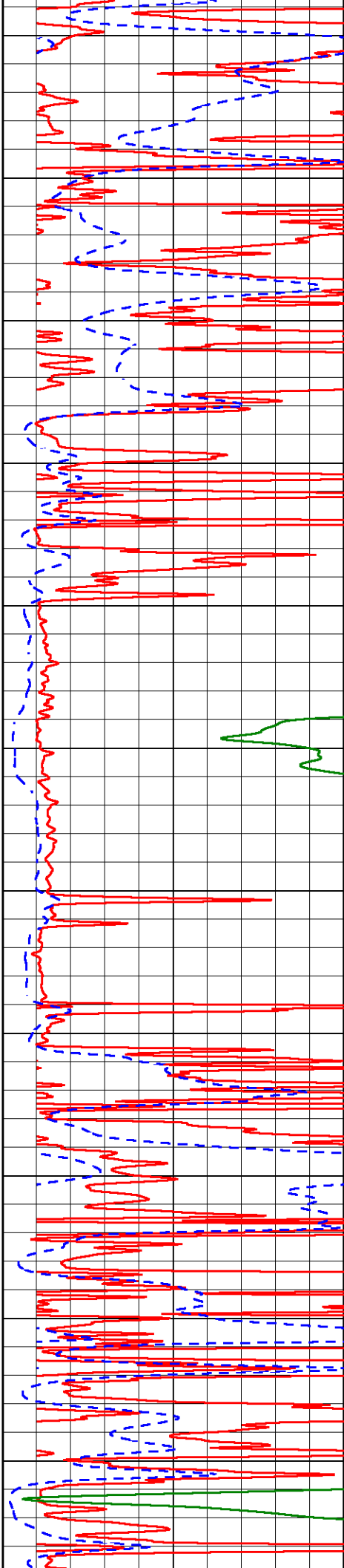
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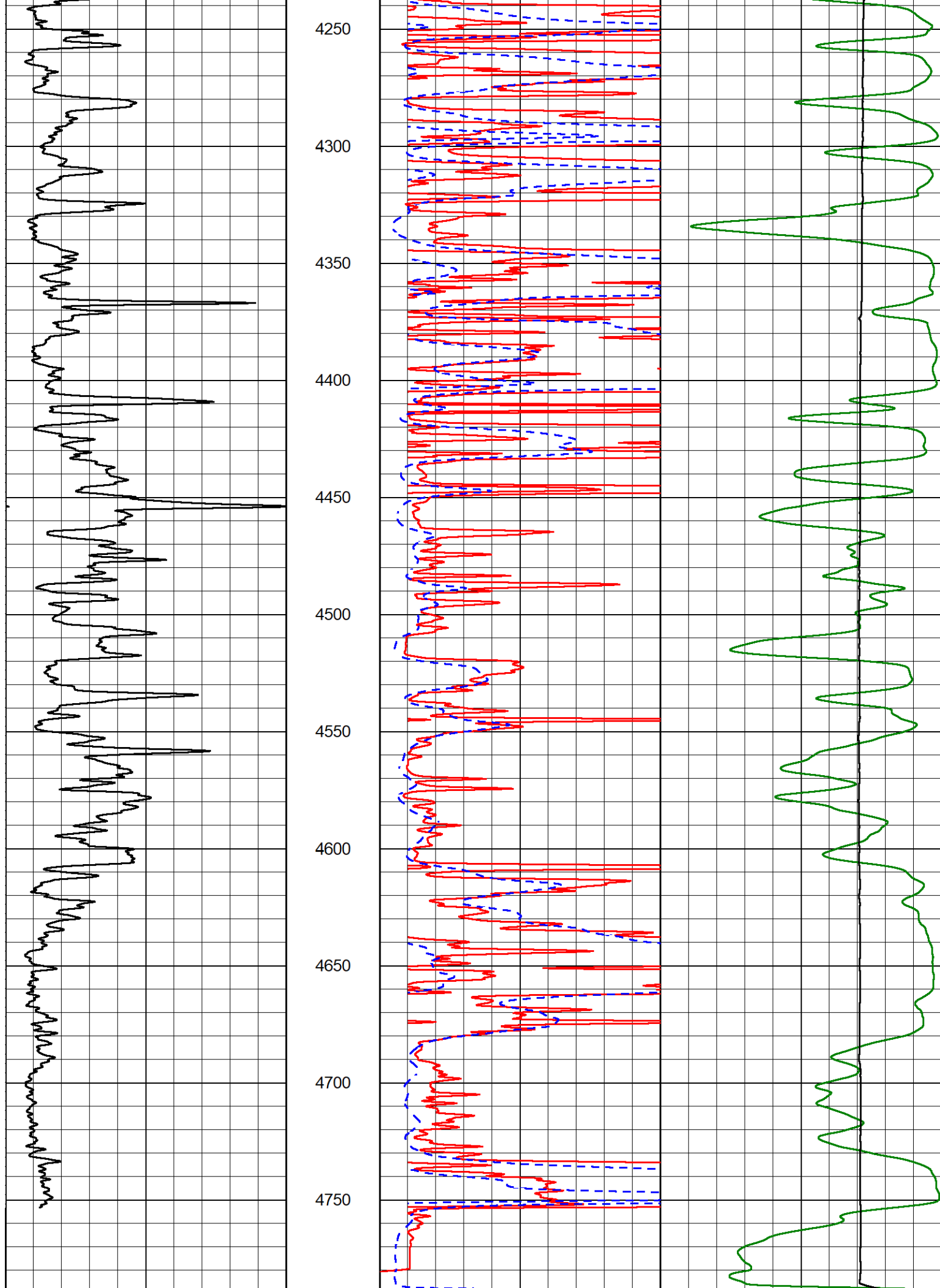
4050

4100

4150

4200





0	Gamma Ray (GAPI)	300	1000	Conductivity (mmho/m)	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



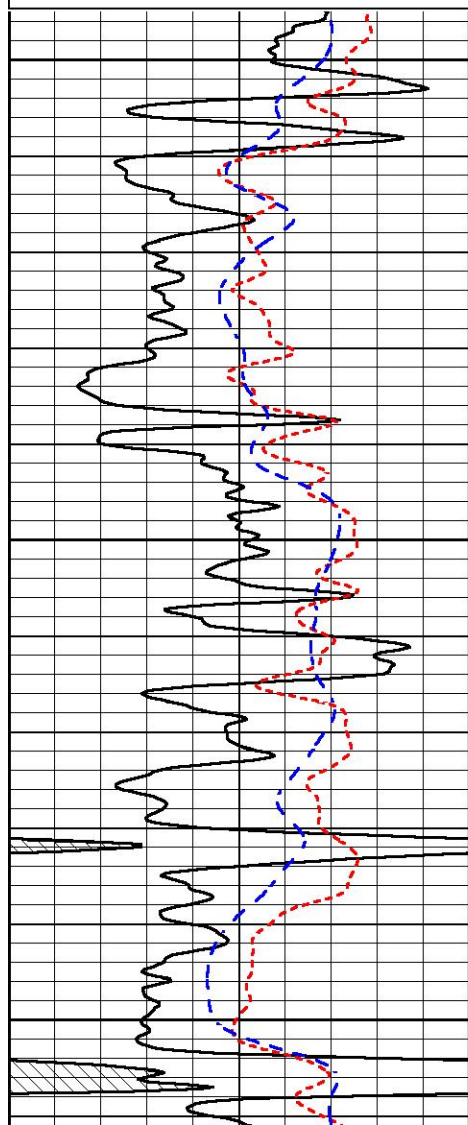
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File griffin_scottie 1.db
Dataset Pathname stkml/pass3.1
Presentation Format _dil
Dataset Creation Sun Jun 05 23:56:54 2022
Charted by Depth in Feet scaled 1:240

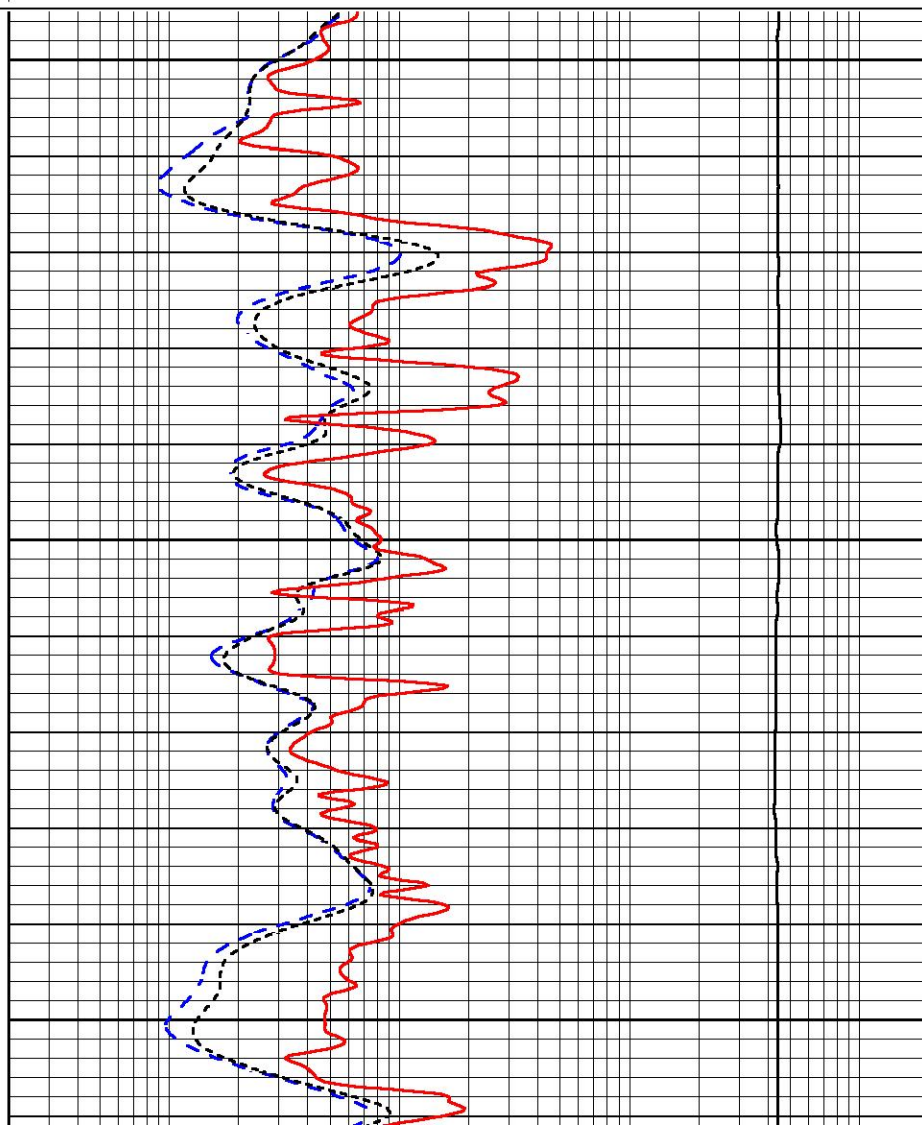
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-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0

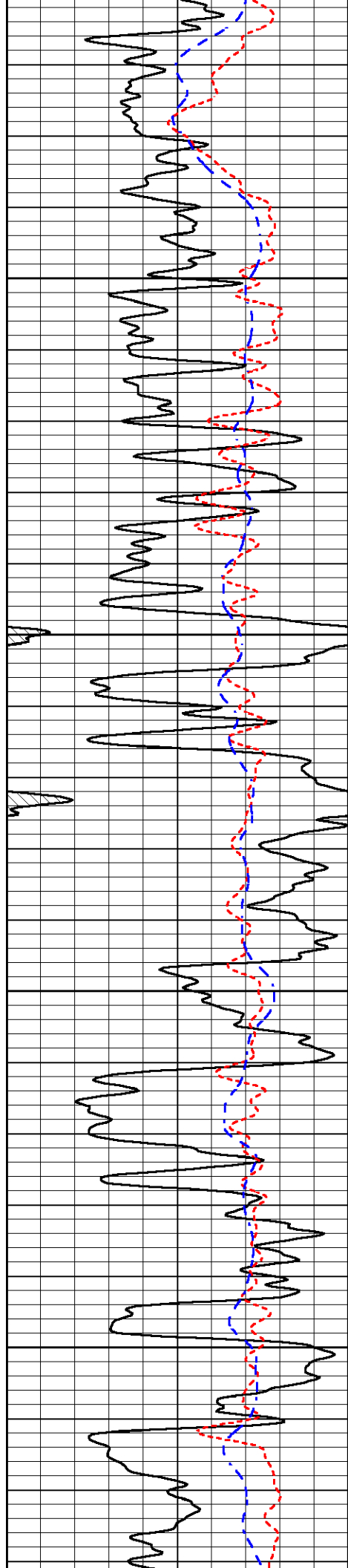


2800

2850

2900



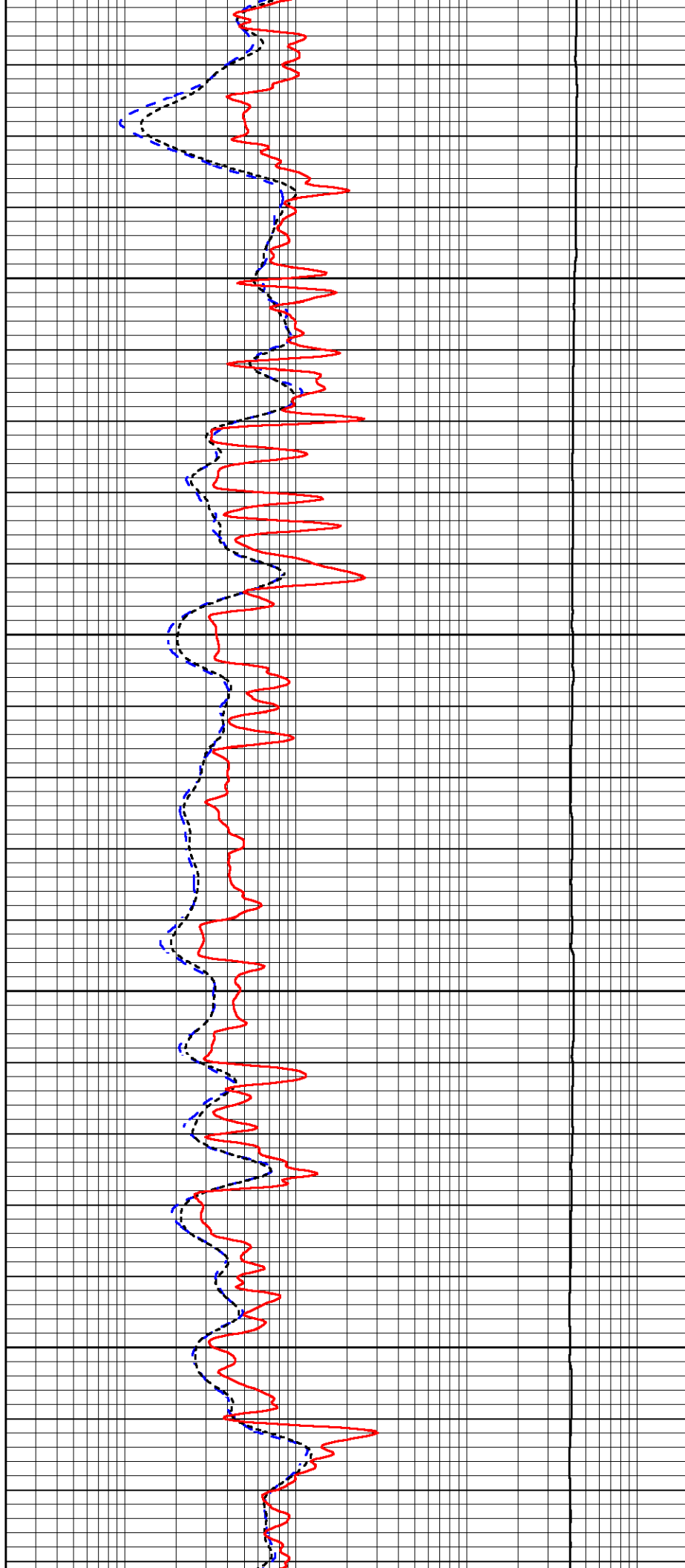


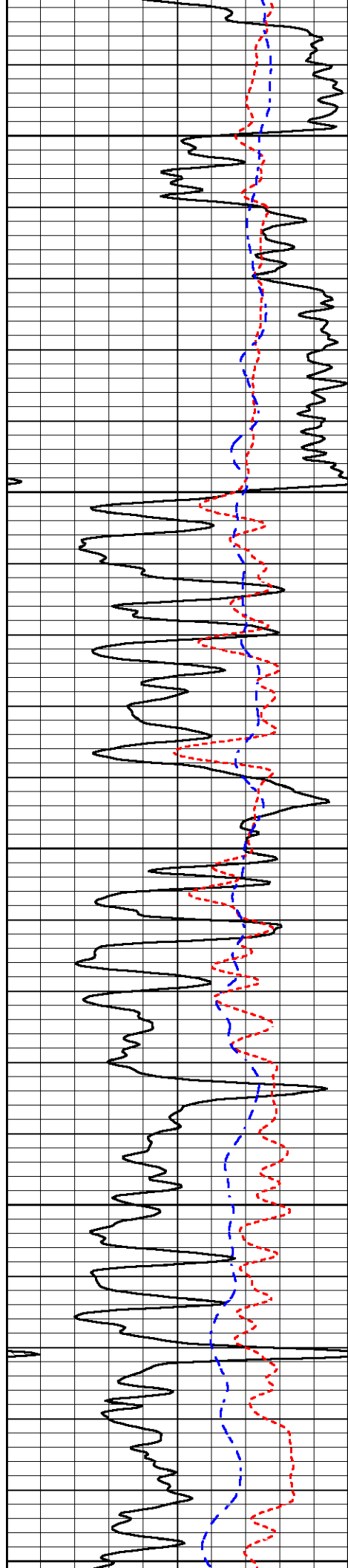
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3000

3050

3100





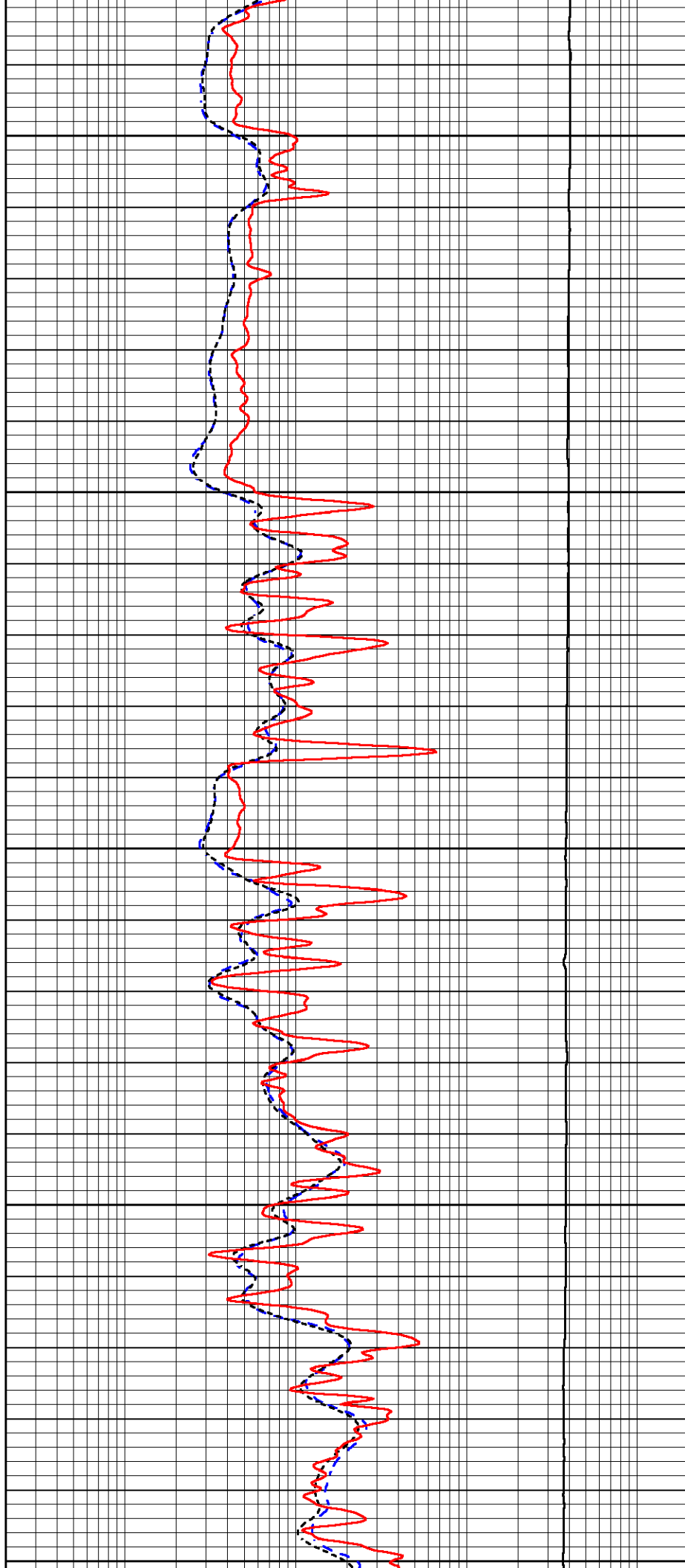
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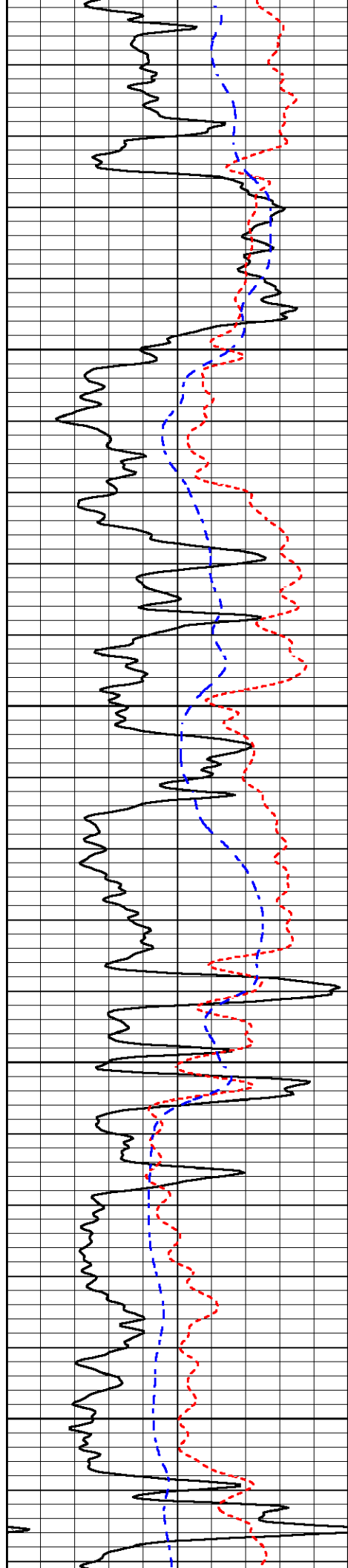
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3250

3300

3350



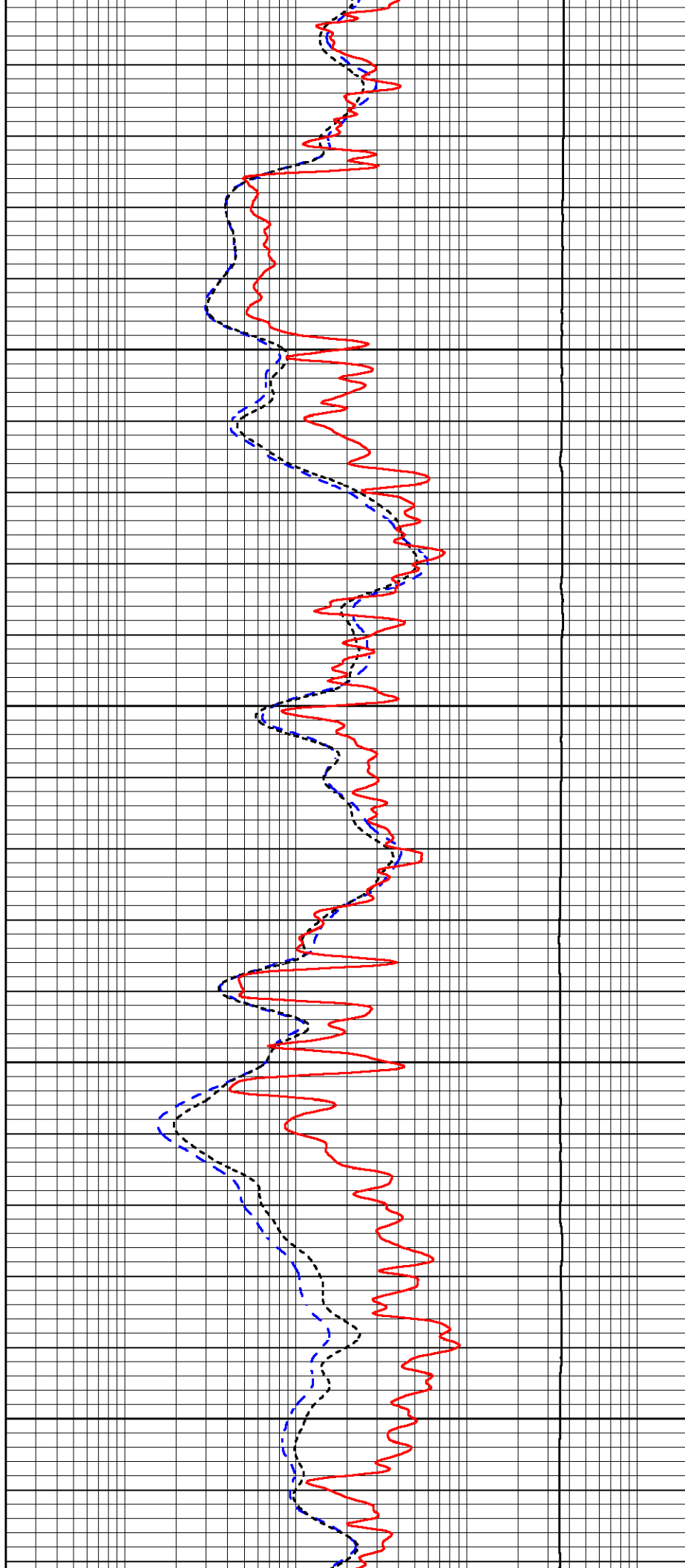


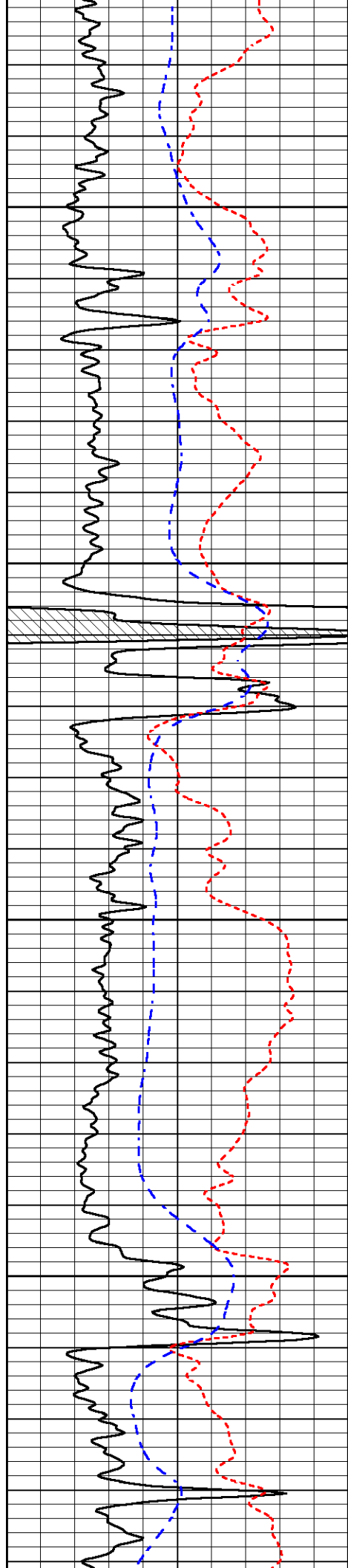
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3450

3500

3550



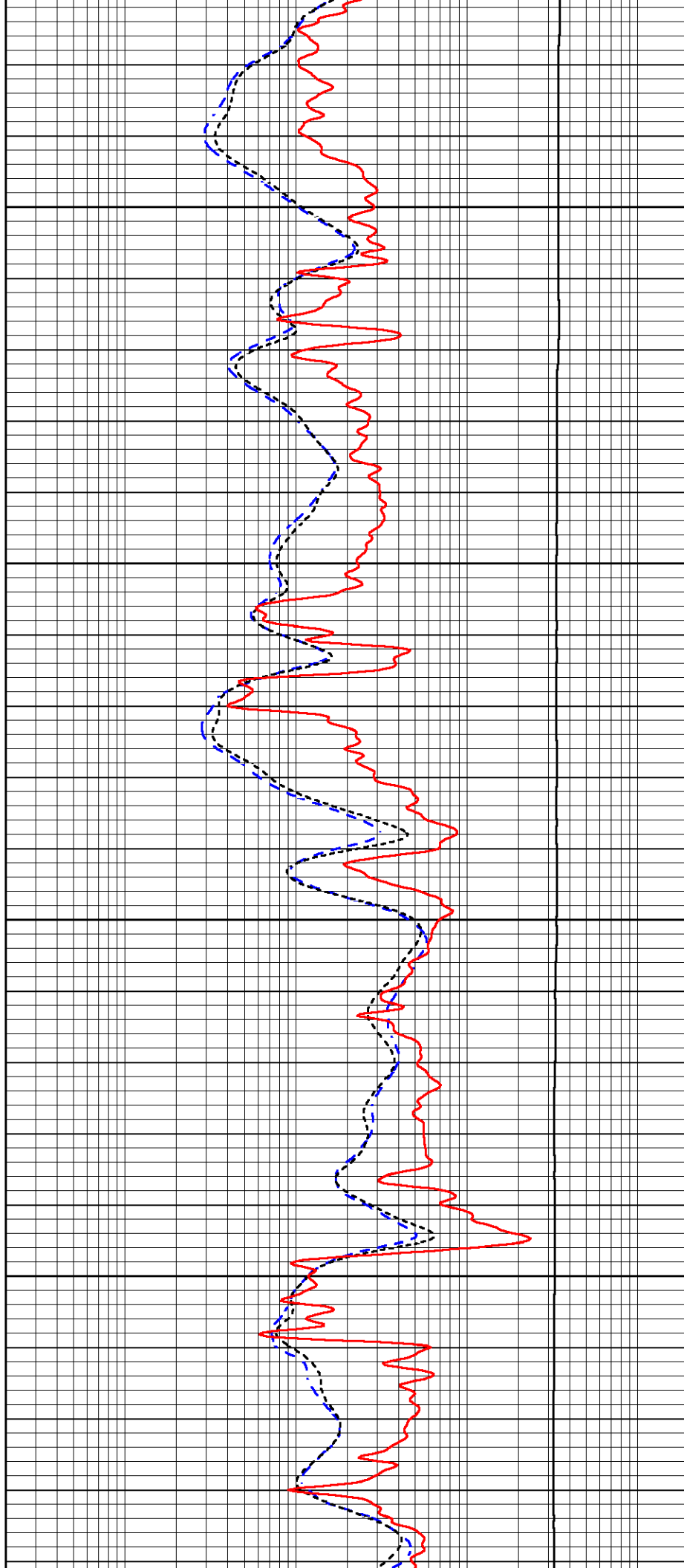


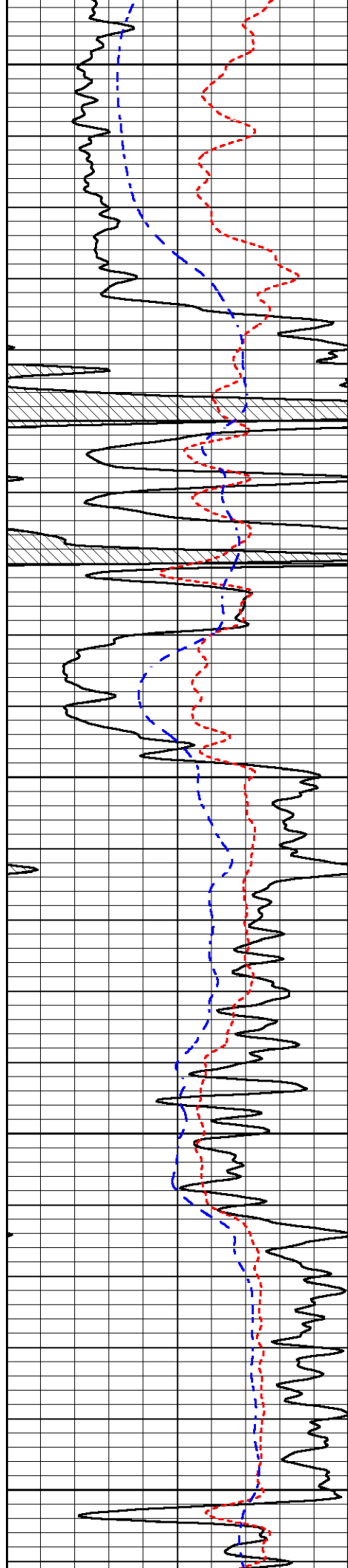
3600

3650

3700

3750





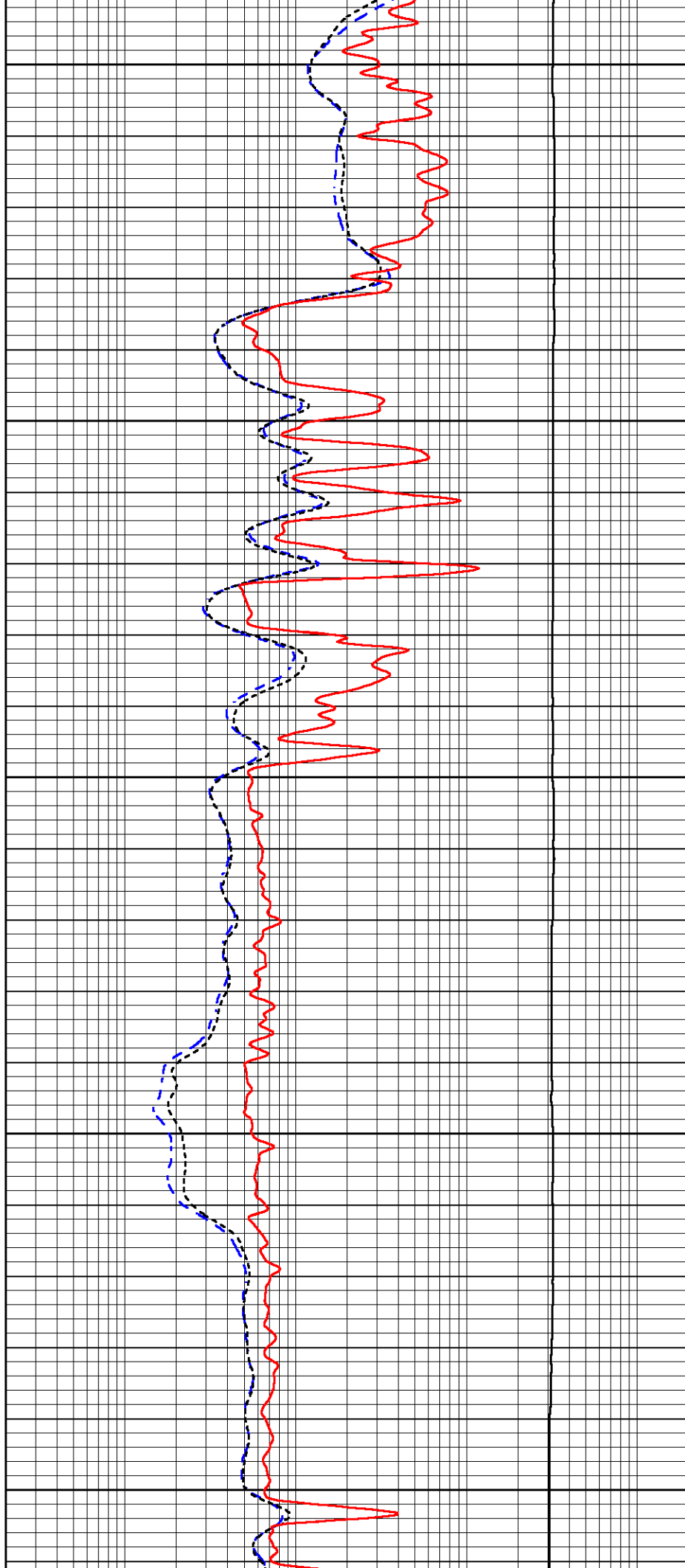
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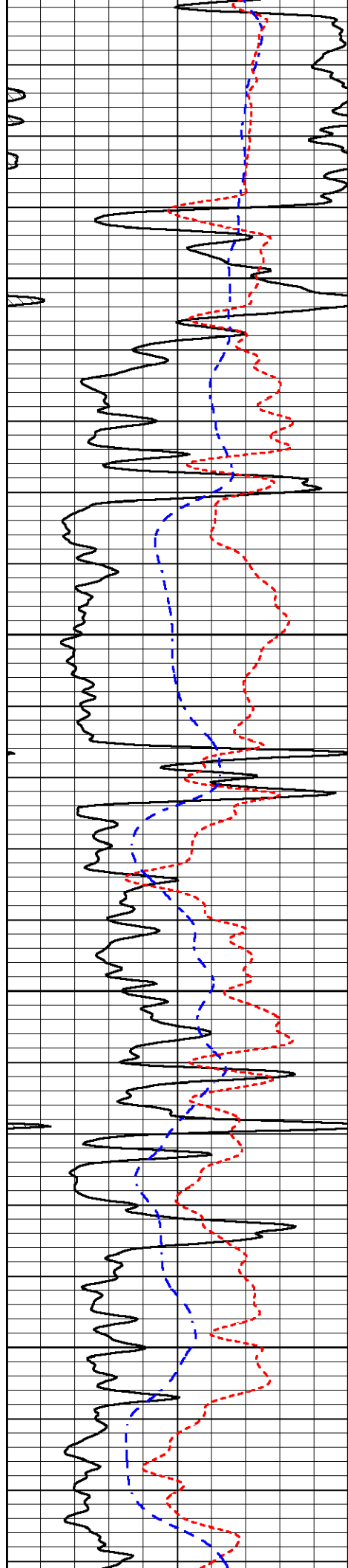
3850

3900

3950

4000



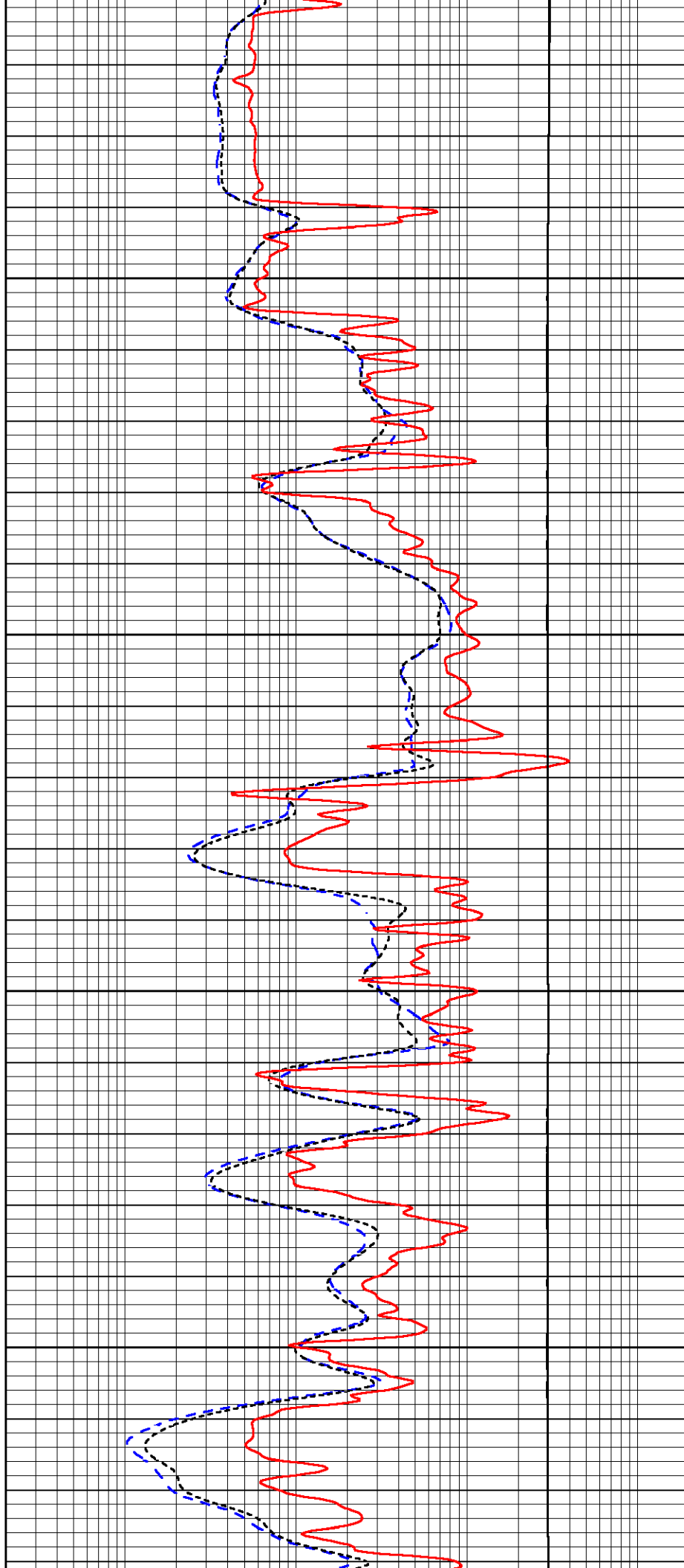


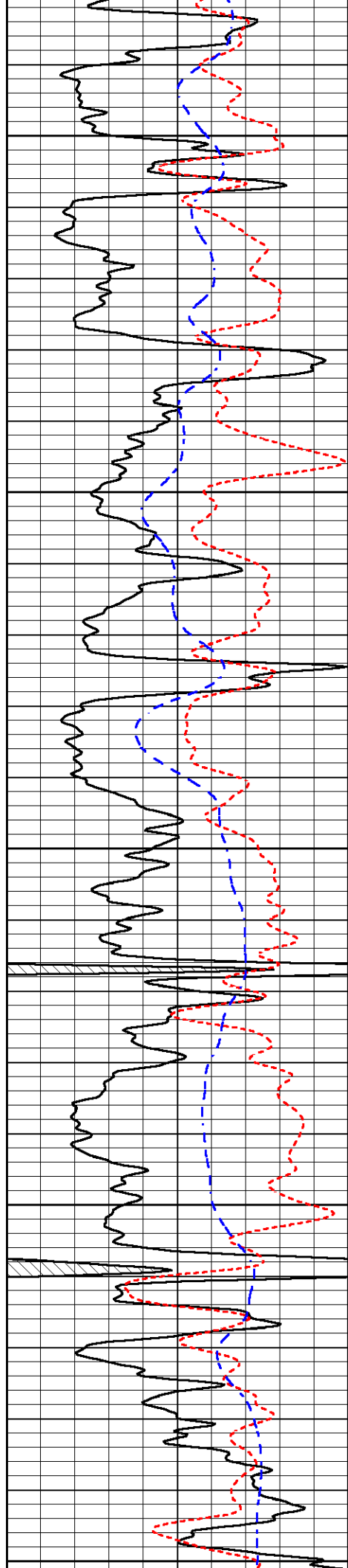
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4100

4150

4200





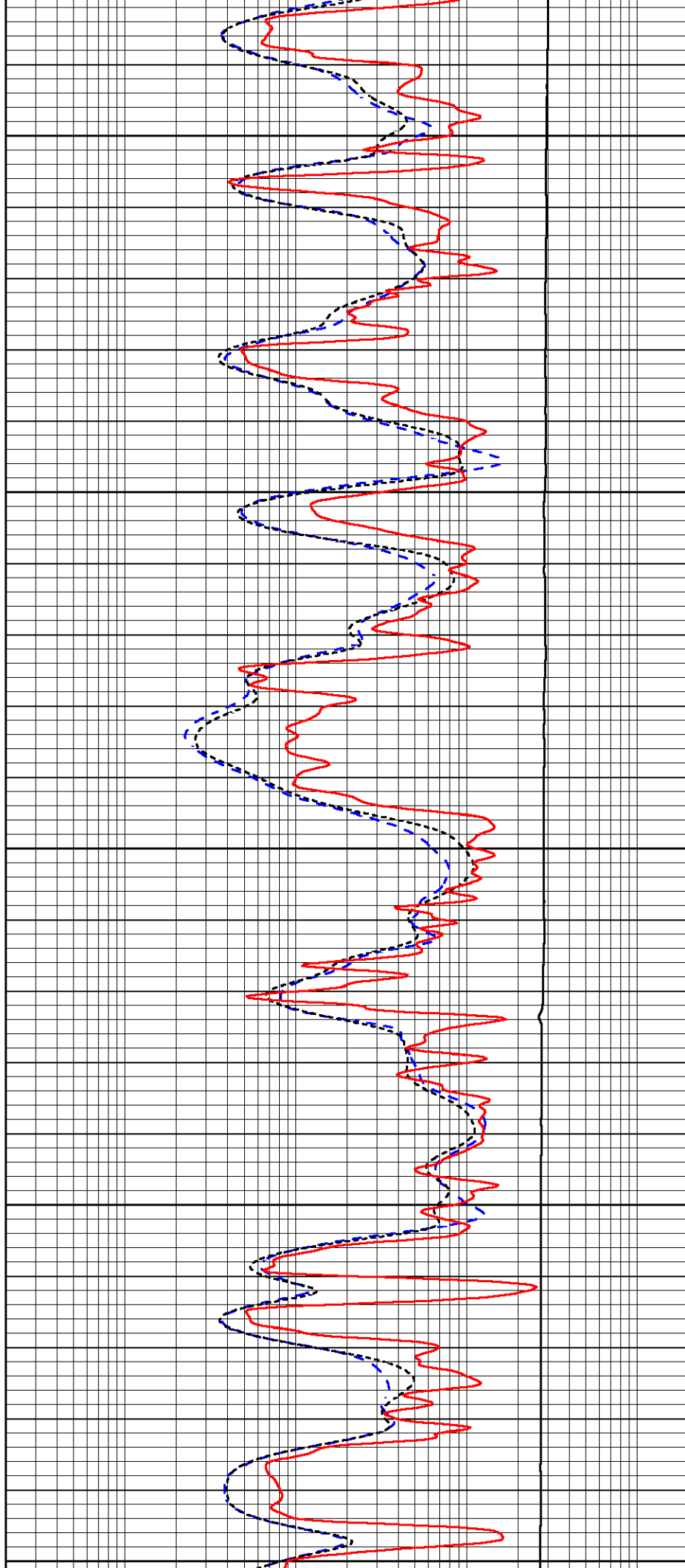
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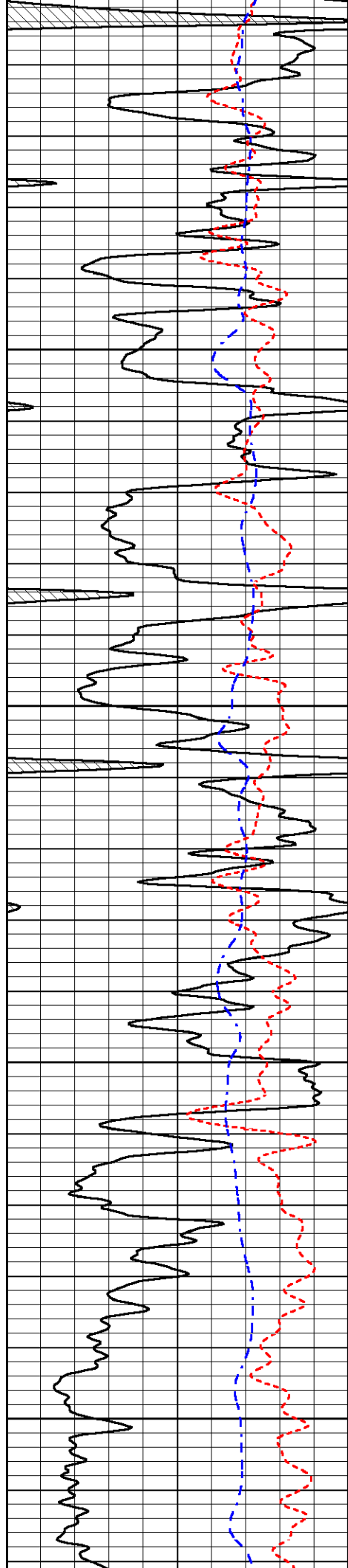
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4350

4400

4450



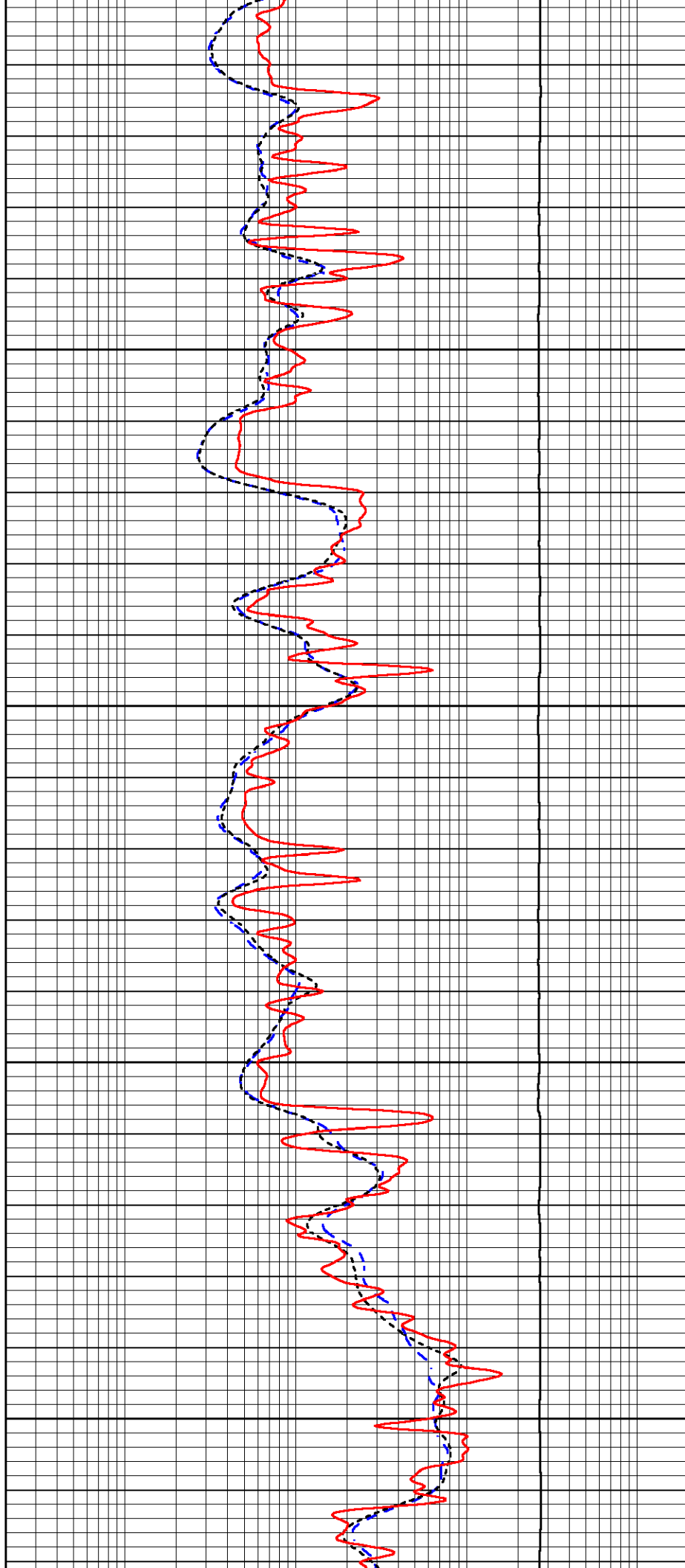


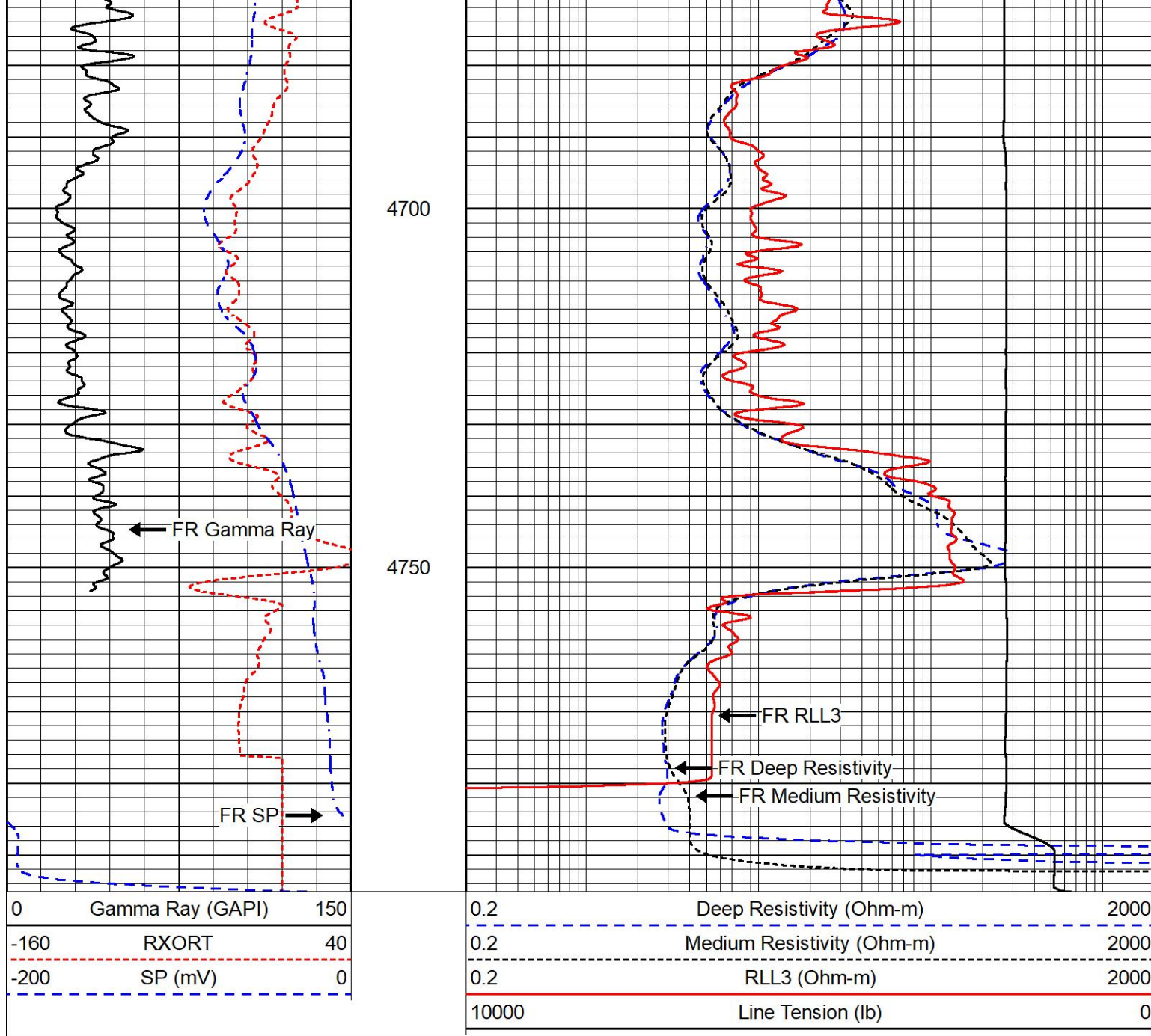
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4550

4600

4650



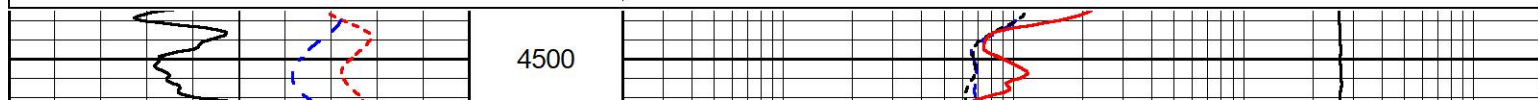
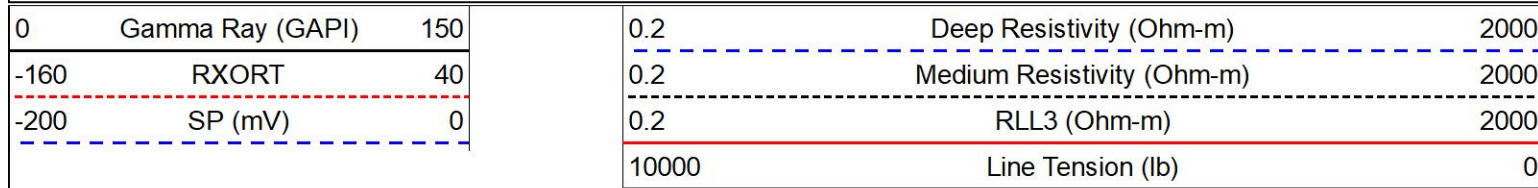


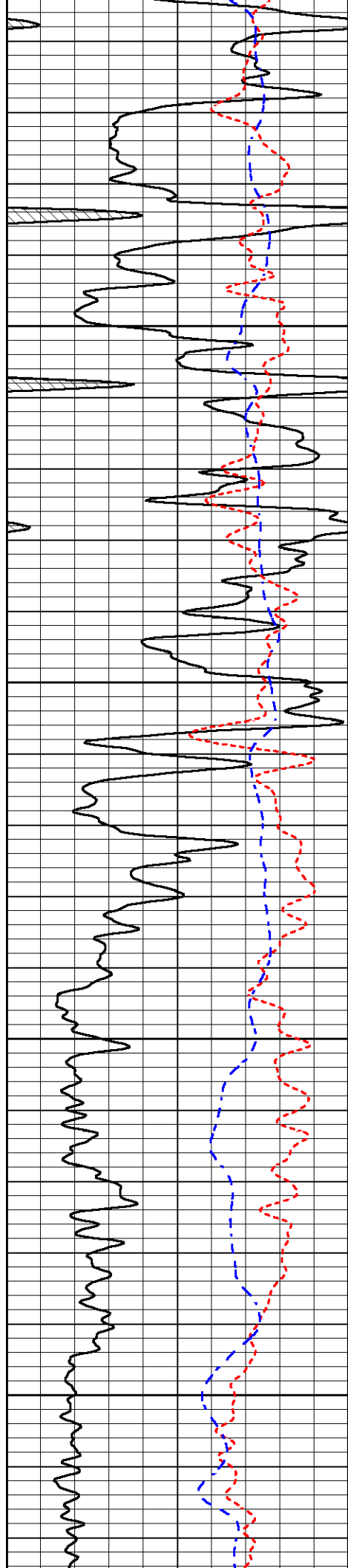
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File griffin_scottie 1.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _dil
 Dataset Creation Sun Jun 05 22:54:59 2022
 Charted by Depth in Feet scaled 1:240



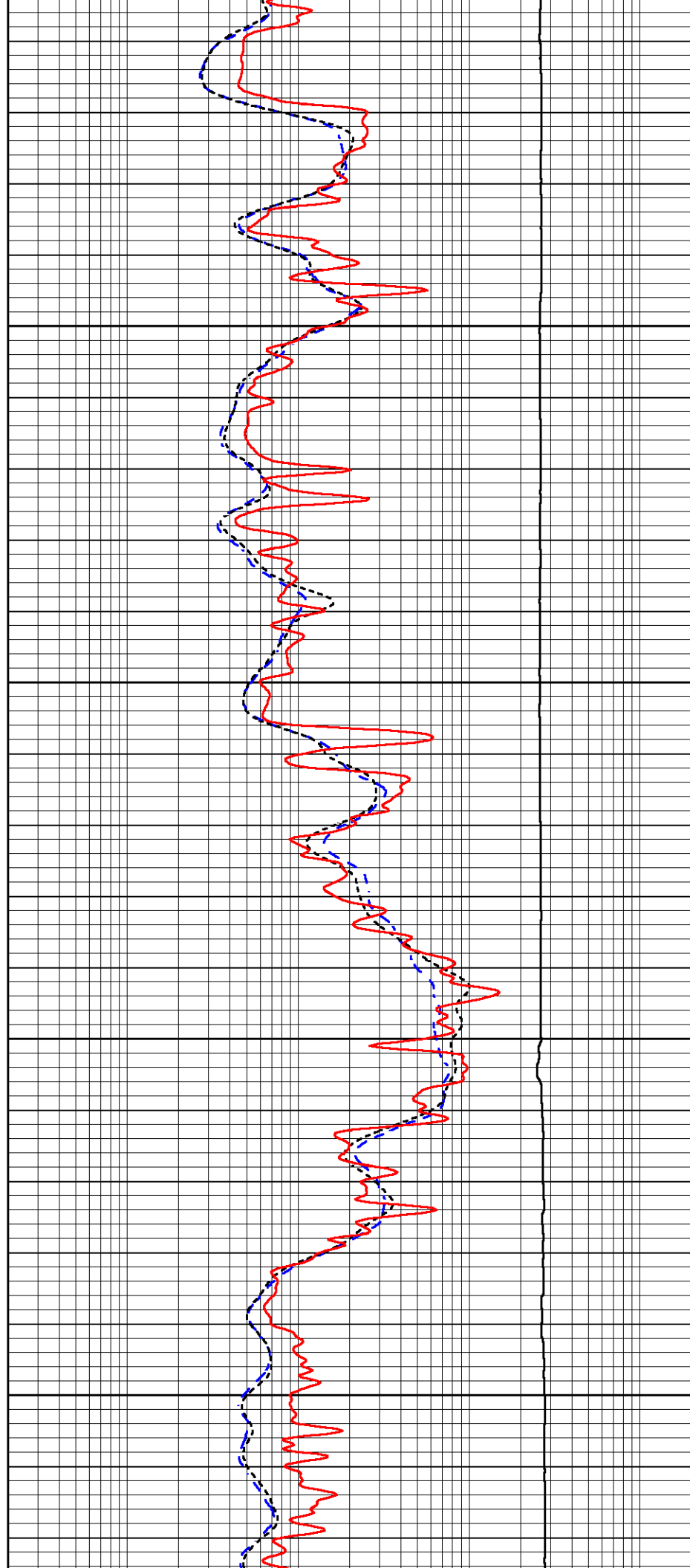


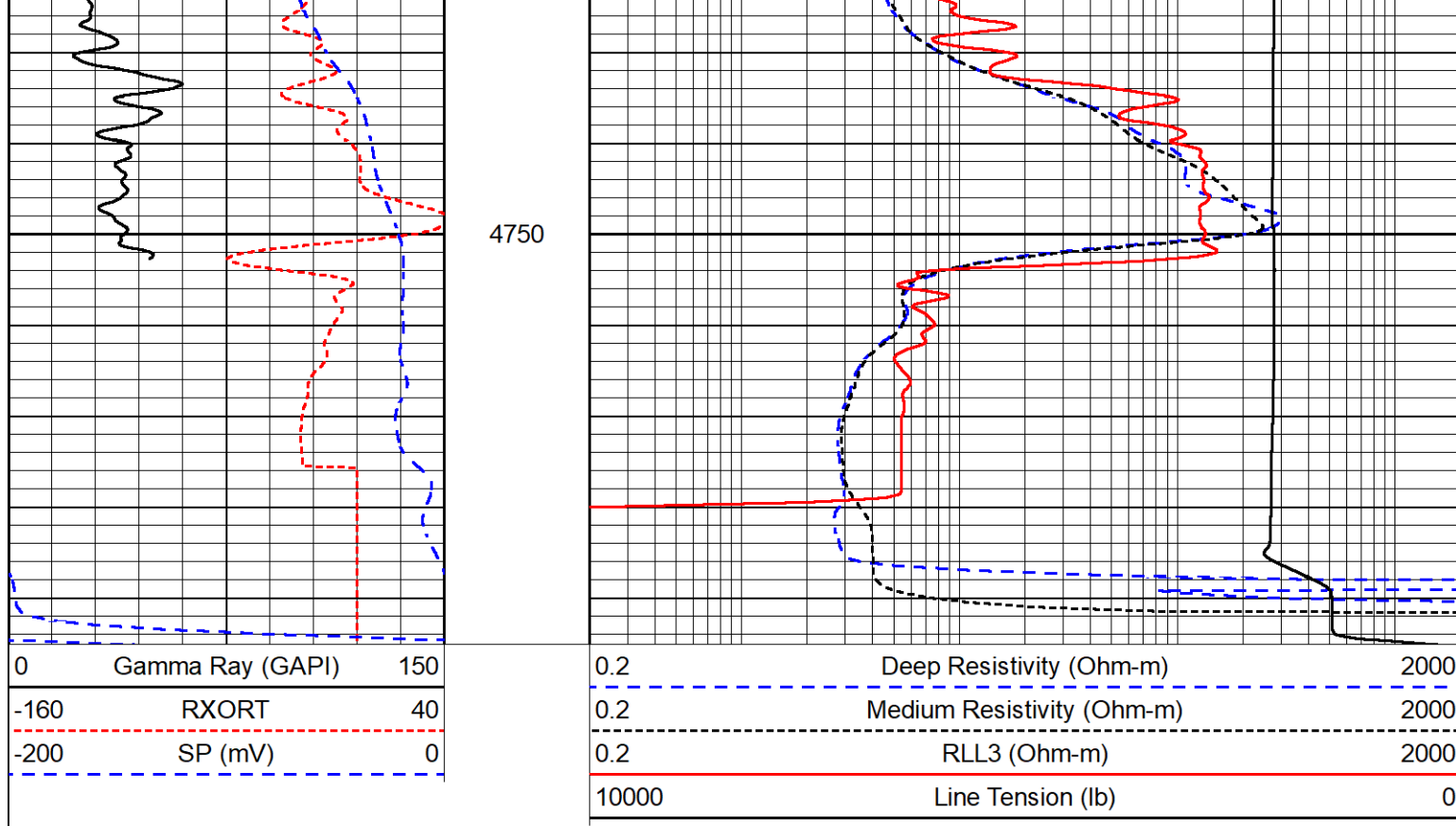
4550

4600

4650

4700





Calibration Report

Database File: griffin_scottie 1.db
 Dataset Pathname: stkml/pass3.13
 Dataset Creation: Sun Jun 05 22:50:06 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	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 401-PSI STKBL ML
 Performed: Fri Jun 3 18:46:15 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	13000.0000	-0.6000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	11500.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.5000

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	1.03		

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	Scottie #1
Field	Moffett West
County	Barber
State	Kansas