



MIDWEST WIRELINE

DUAL INDUCTION
LOG

Company American Warrior, Inc.		Company American Warrior, Inc.	
Well	O'Brate-Beach #2-26	Well	O'Brate-Beach #2-26
Field	Wildcat	Field	Wildcat
County	Finney	County	Finney
State	Kansas	State	Kansas
Location: API #: 15-055-22556-00-00		Other Services	
1682 FSL & 921 FWL		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	2797
Log Measured From	Kelly Bushing	K.B.	2810
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2797
Date	5/5/2022		
Run Number	One		
Depth Driller	5000		
Depth Logger	5002		
Bottom Logged Interval	5001		
Top Log Interval	1600		
Casing Driller	8.625 @ 1607		
Casing Logger	1601		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2900		
Density / Viscosity	9.4 45		
pH / Fluid Loss	10.5 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70 @ 70		
Rmt @ Meas. Temp	0.53 @ 70		
Rmc @ Meas. Temp	0.95 @ 70		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.39 @ 126		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	126		
Equipment Number	P-24		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Kevin Timson		

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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.

Pierceville,
1 1/2 South, 1 West,
South to location

Log Measured From: Kelly Bushing 13 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: D. Schmidt		Primary Witness: Kevin Timson	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\american_warrior_obrate beach 2-26.db
Dataset field/well/stkml/pass3.10/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	127	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	-253	60		5002

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

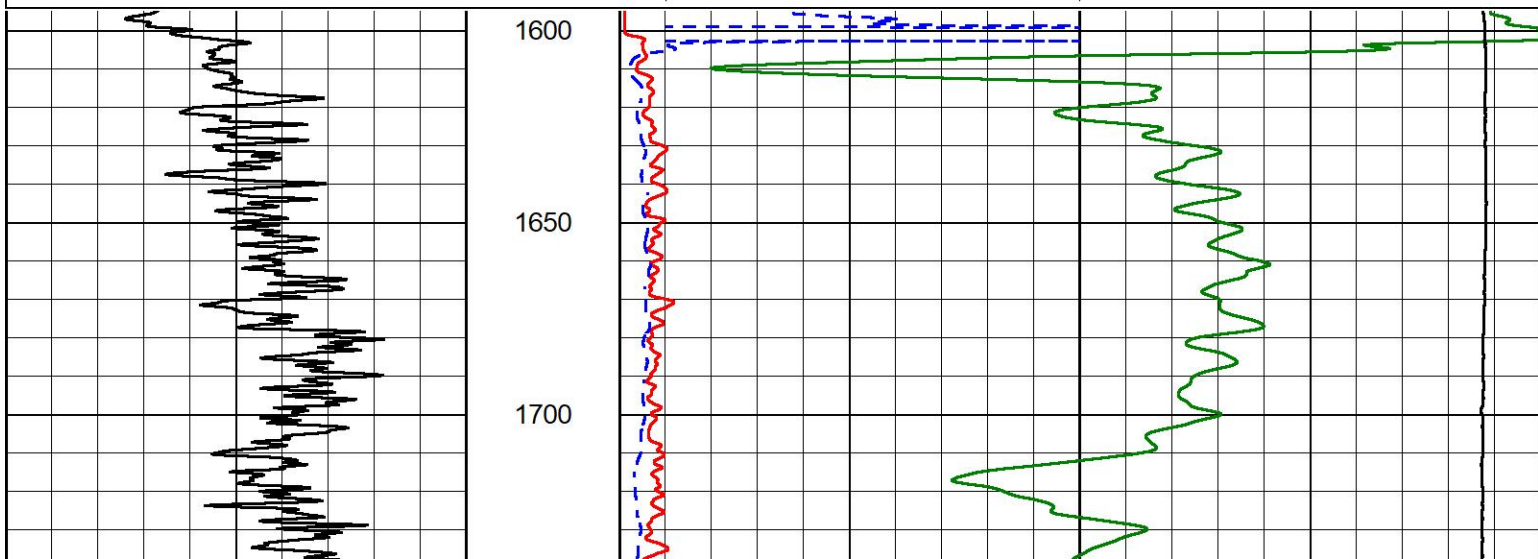


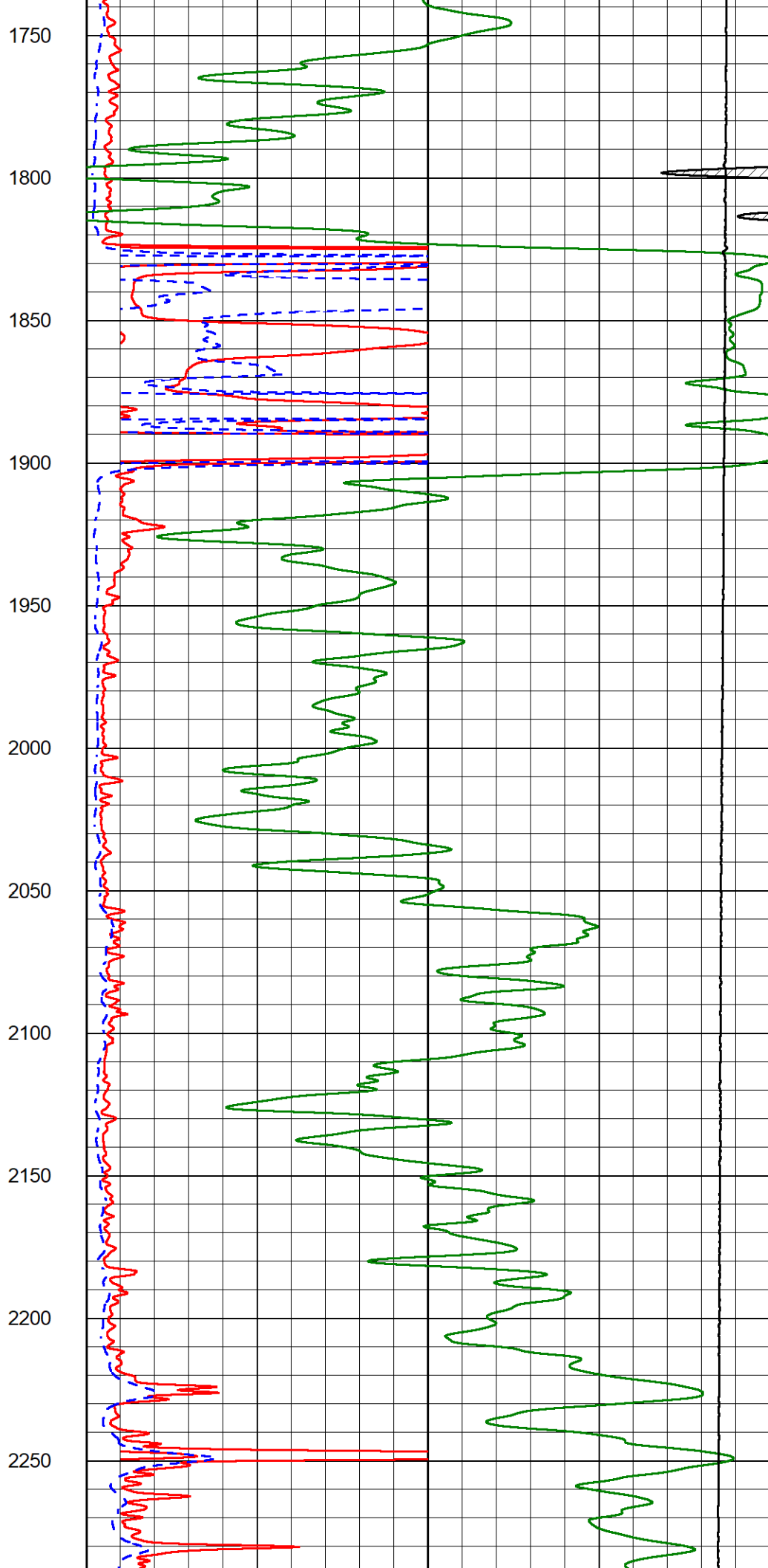
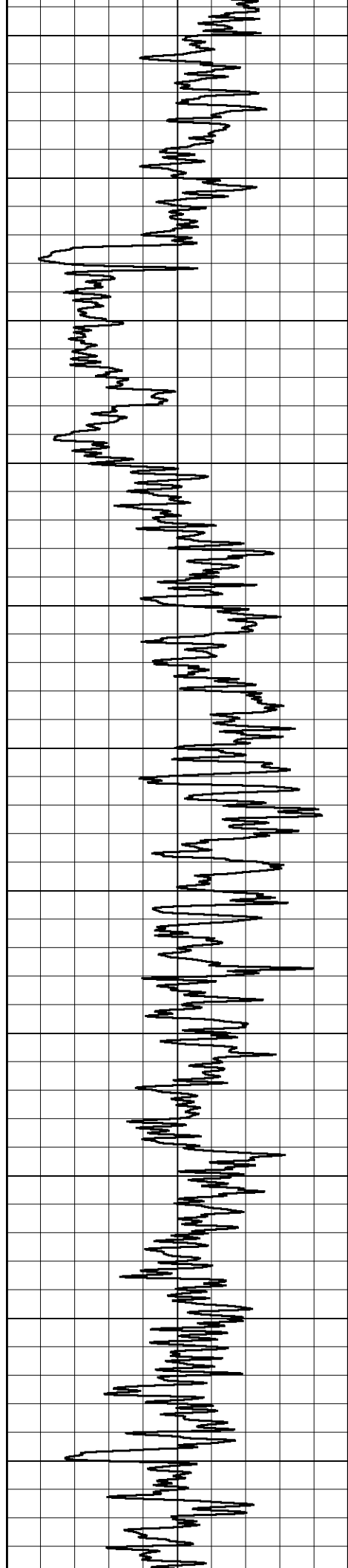
2" SCALE RESISTIVITY

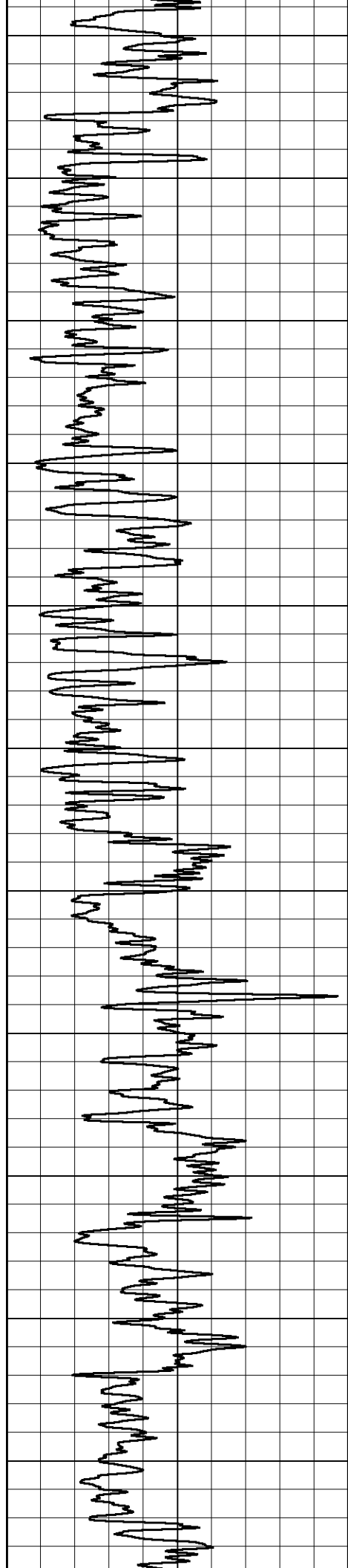
MAIN PASS

Database File american_warrior_obrate beach 2-26.db
Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Thu May 05 19:18:45 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	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







2300

2350

2400

2450

2500

2550

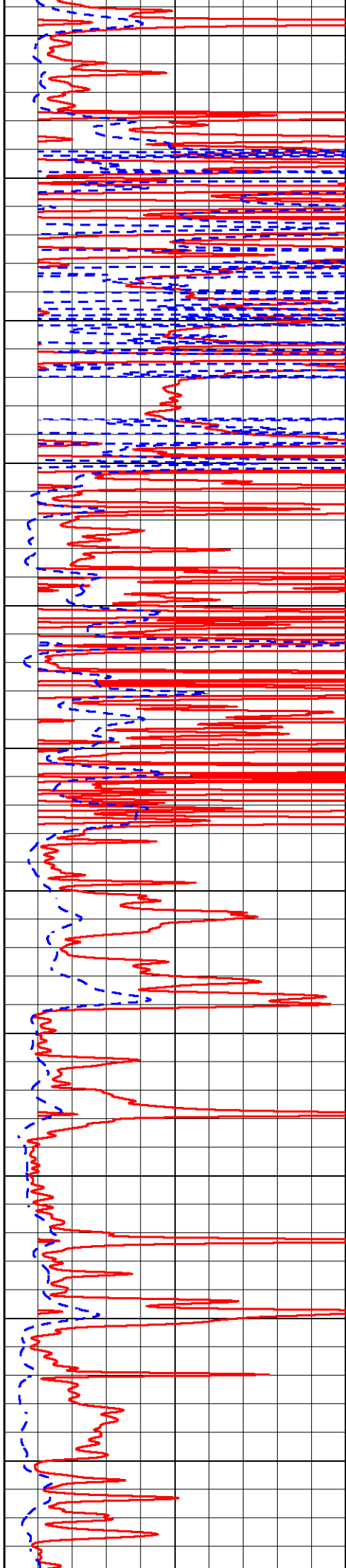
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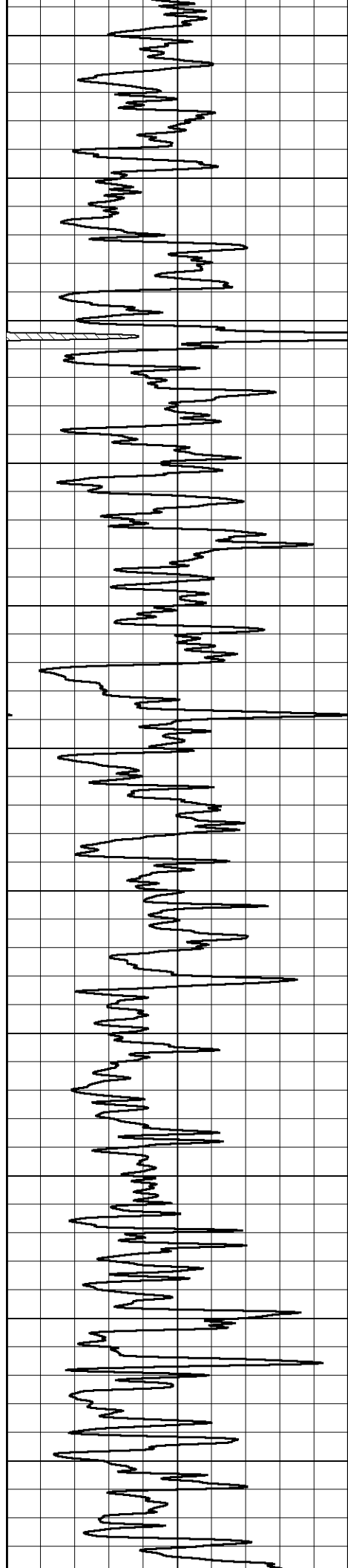
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2700

2750

2800





2850

2900

2950

3000

3050

3100

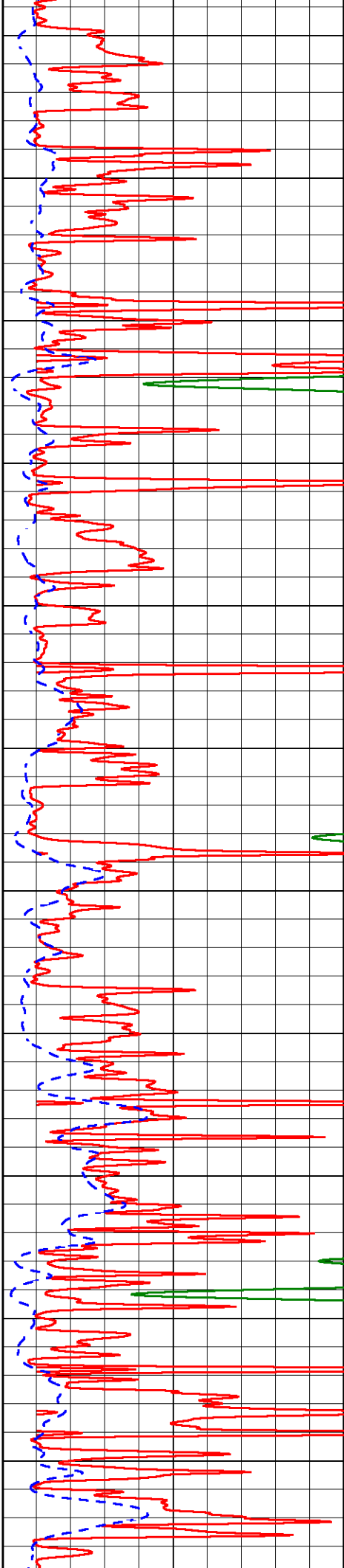
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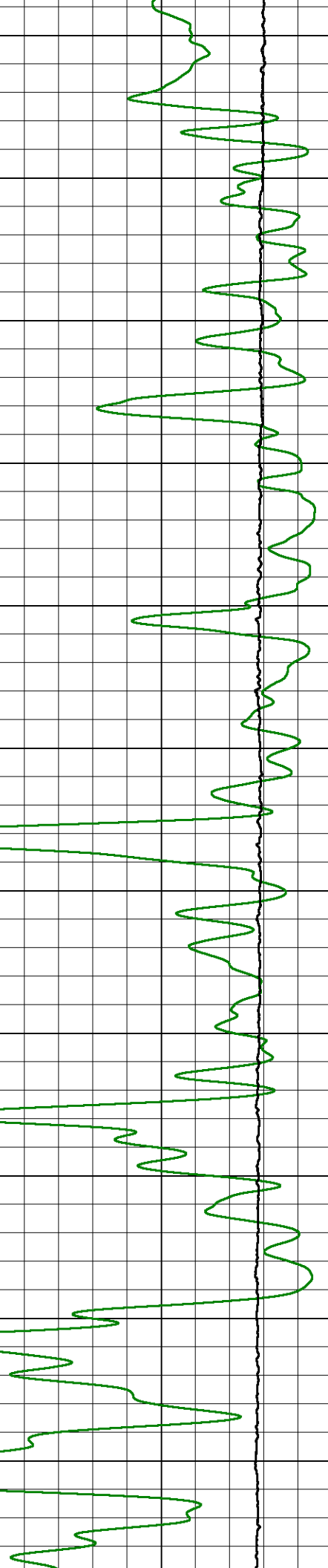
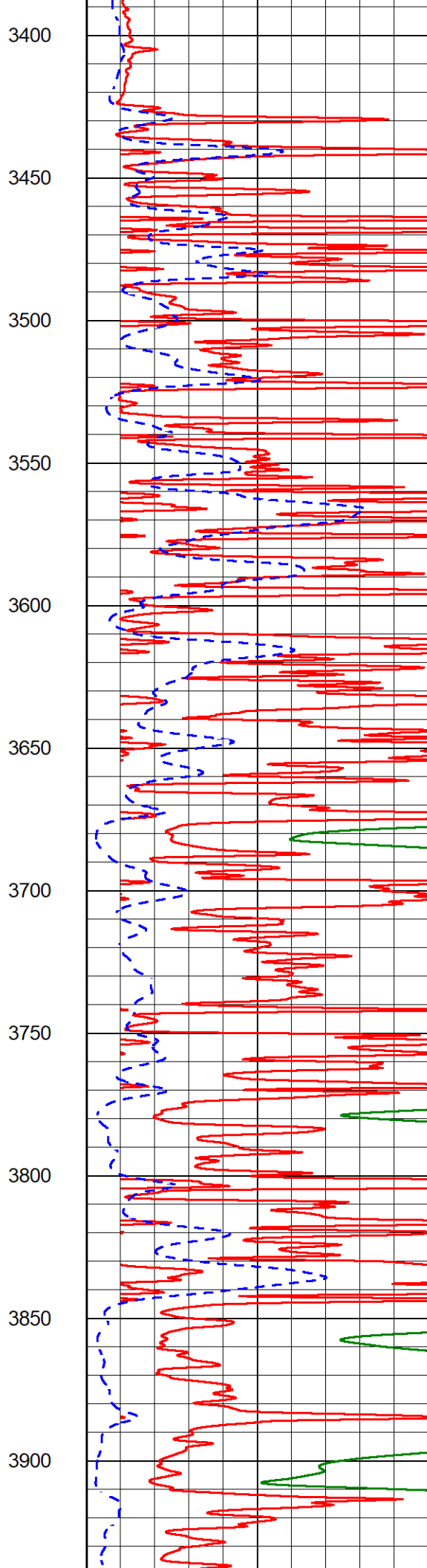
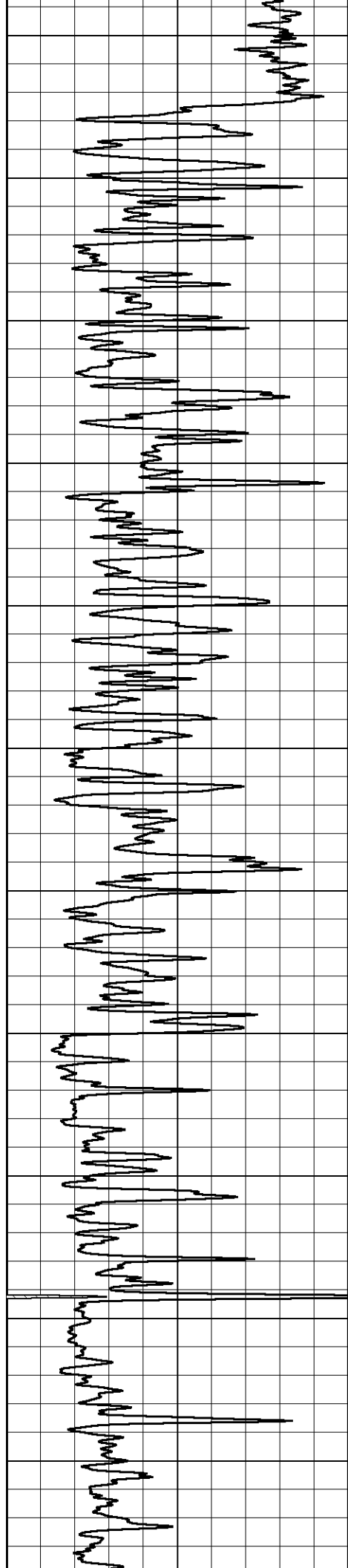
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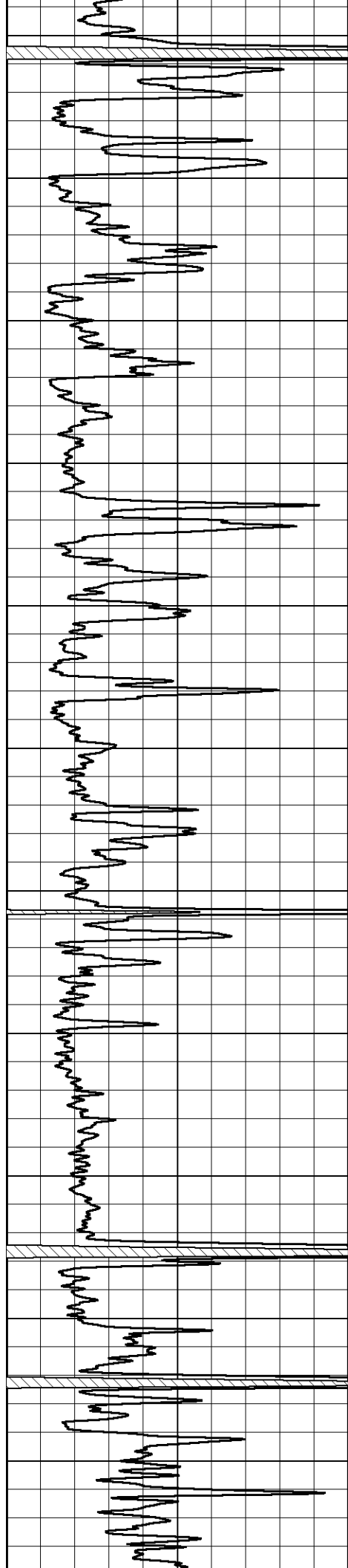
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3300

3350







3950

4000

4050

4100

4150

4200

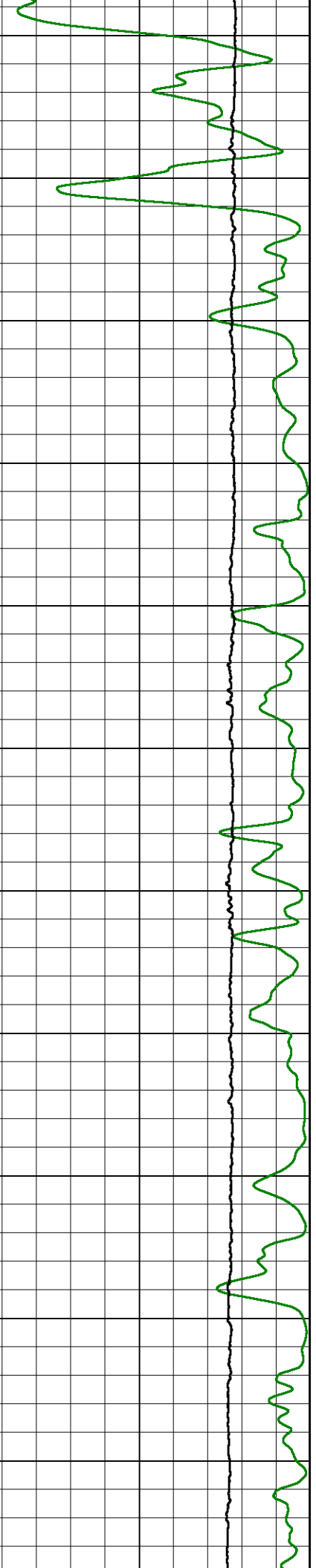
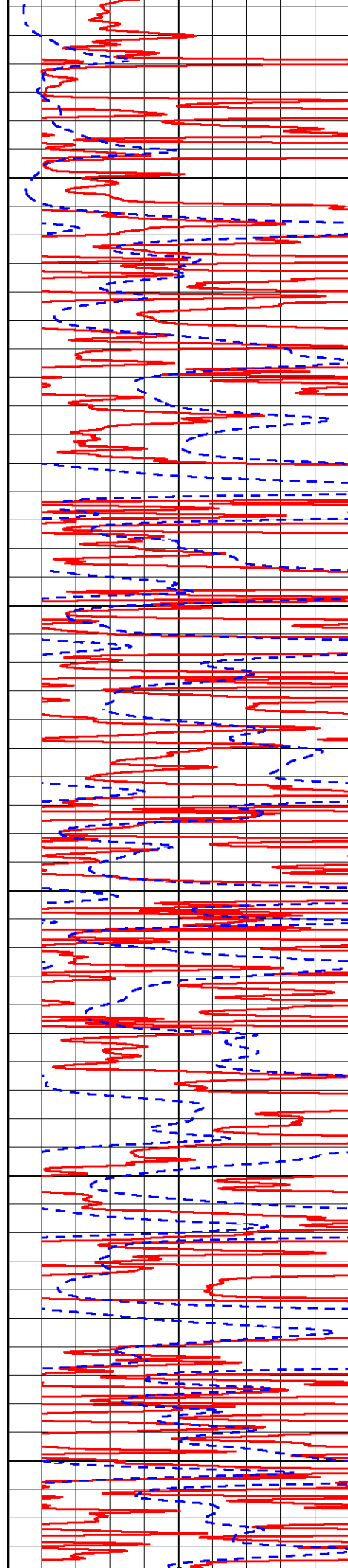
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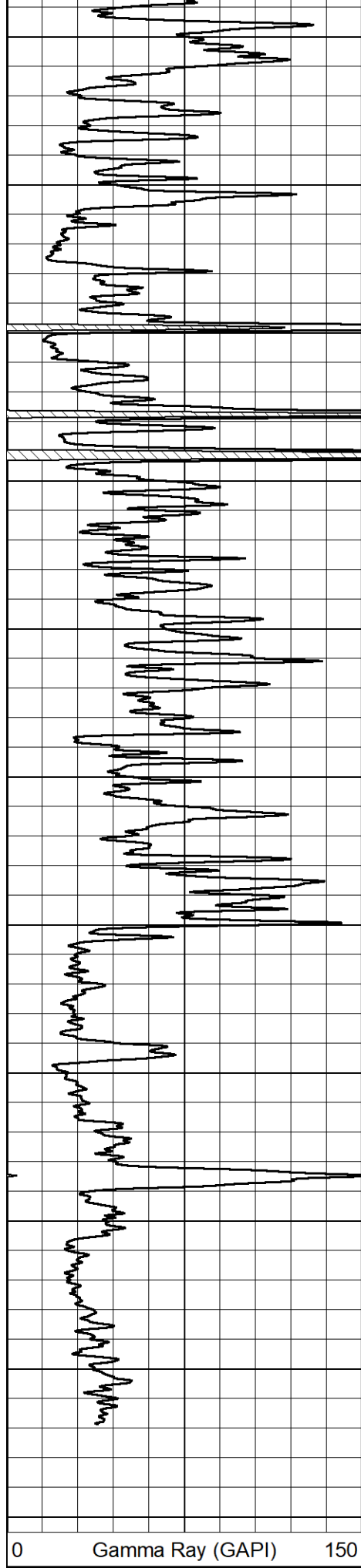
4300

4350

4400

4450





0 150

4500

4550

4600

4650

4700

4750

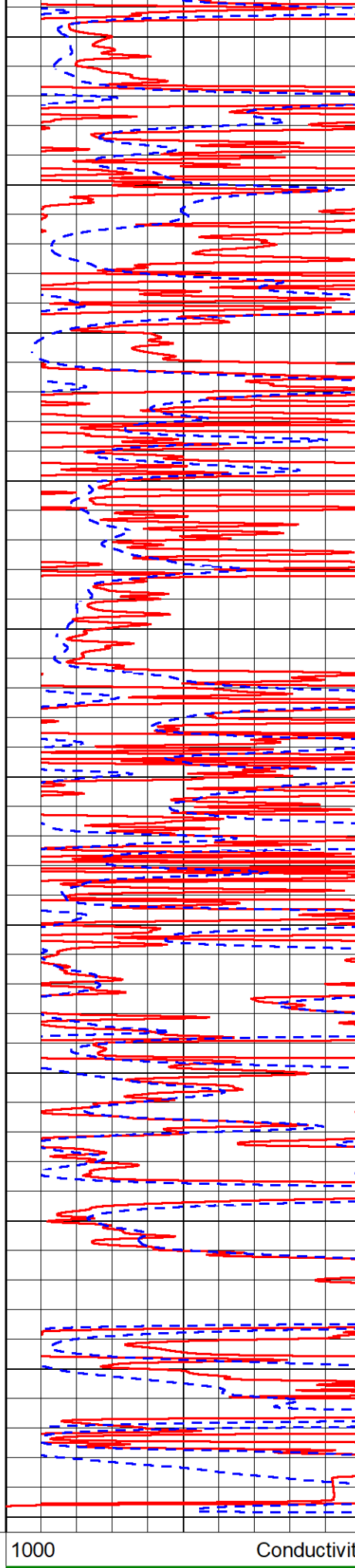
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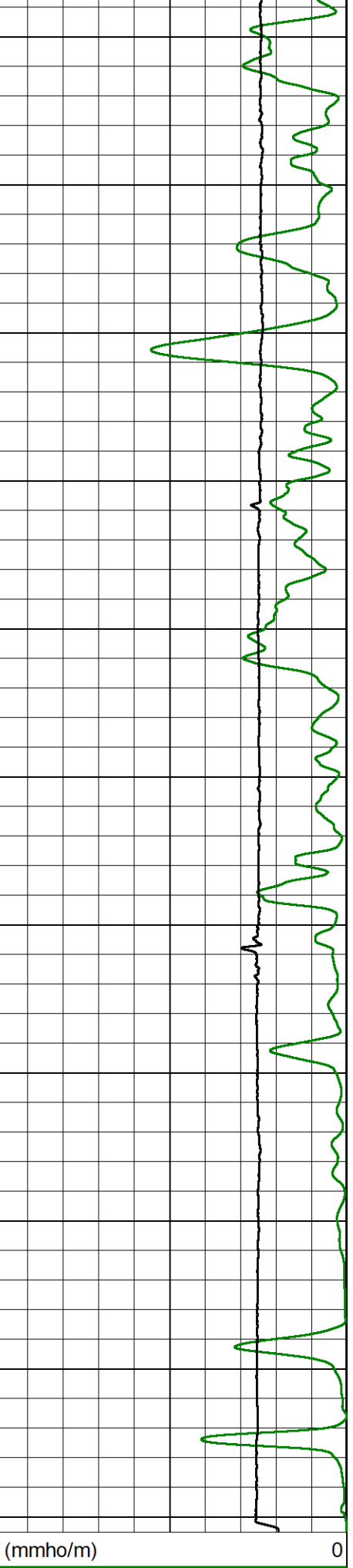
4950

5000



1000 15000

0 50



0 50

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



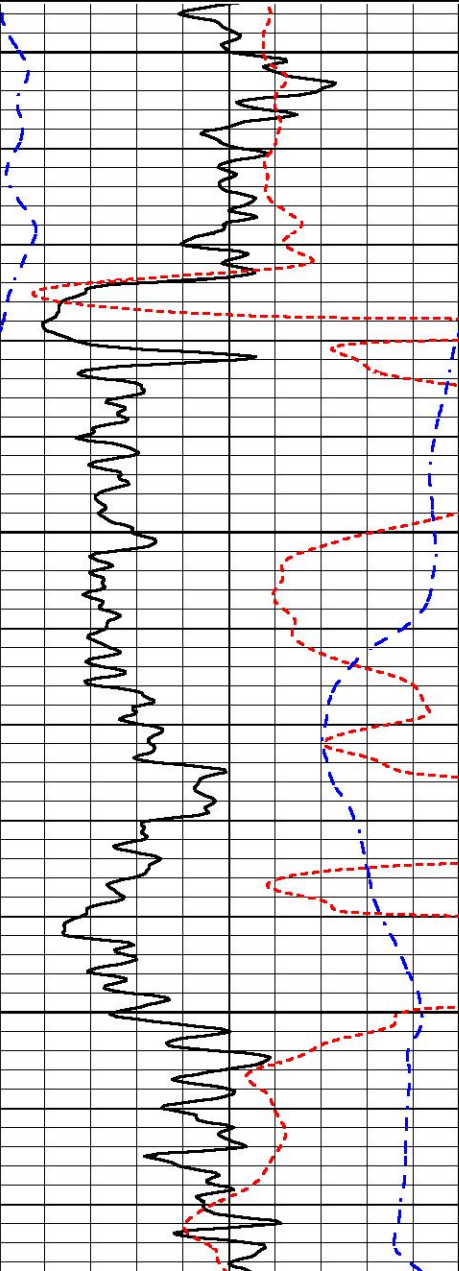
ANHYDRITE SECTION

MAIN PASS

Database File	american warrior_obrate beach 2-26.db
Dataset Pathname	stkml/pass3.4
Presentation Format	_dil
Dataset Creation	Thu May 05 19:18:58 2022
Charted by	Depth in Feet scaled 1:240

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

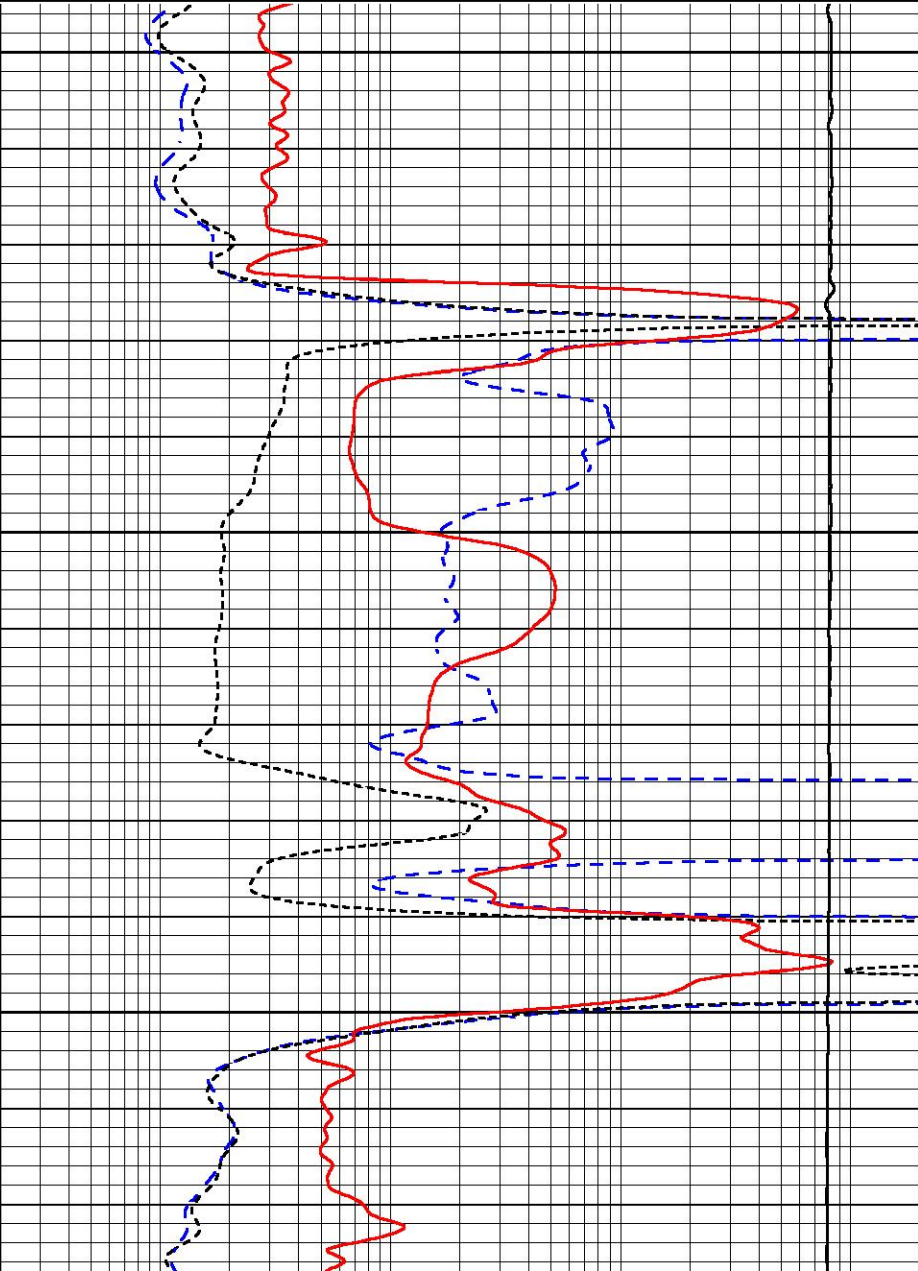
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

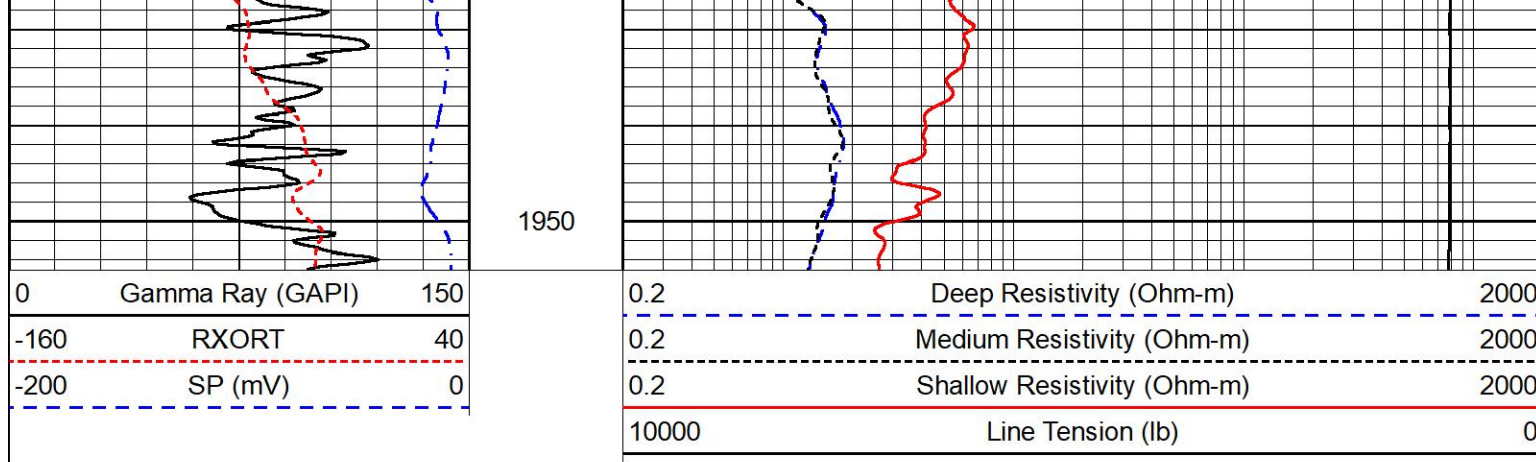


1800

1850

1900



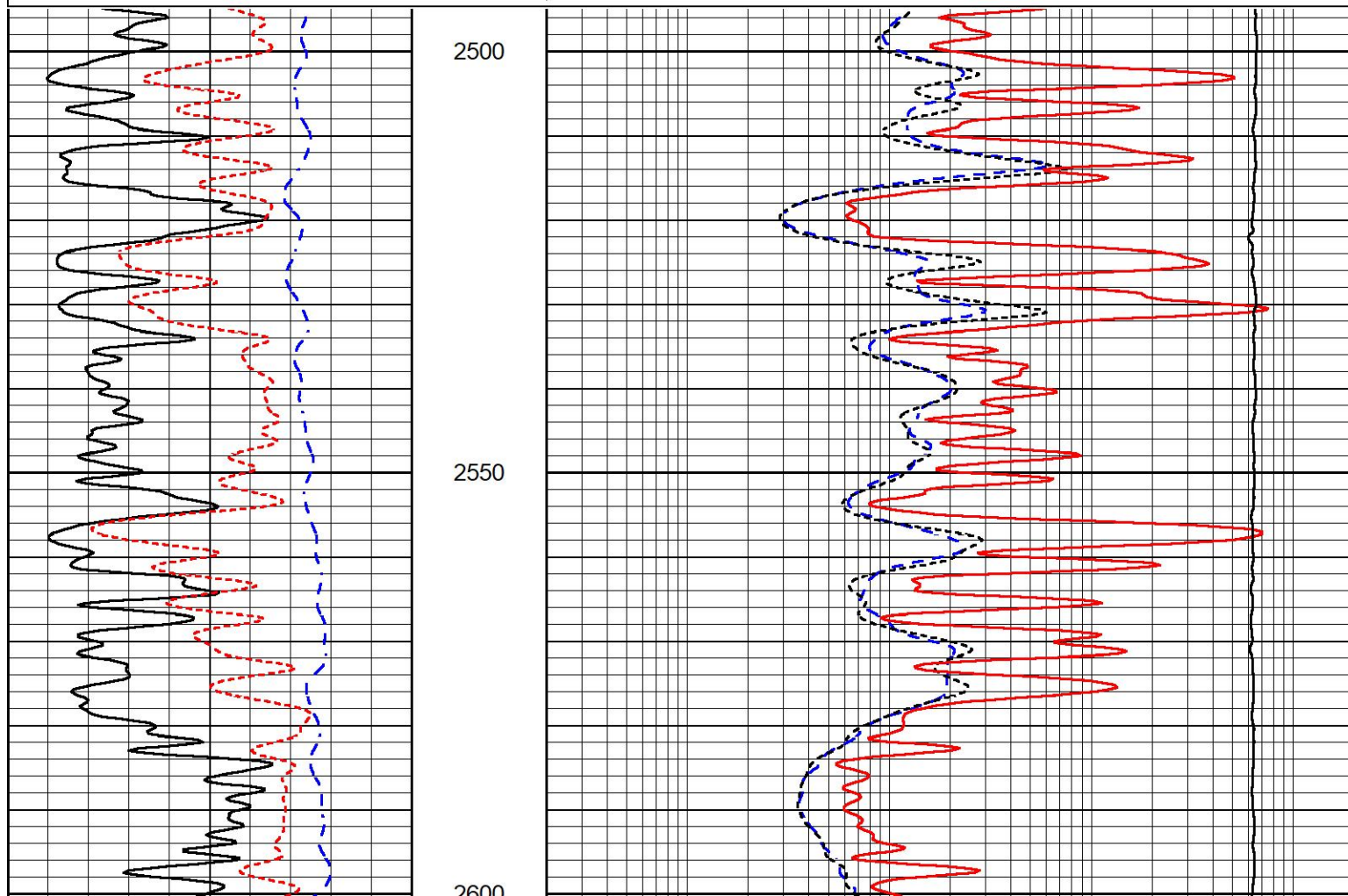
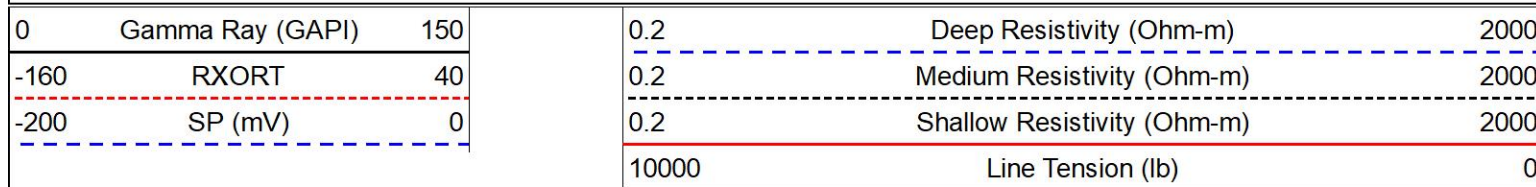


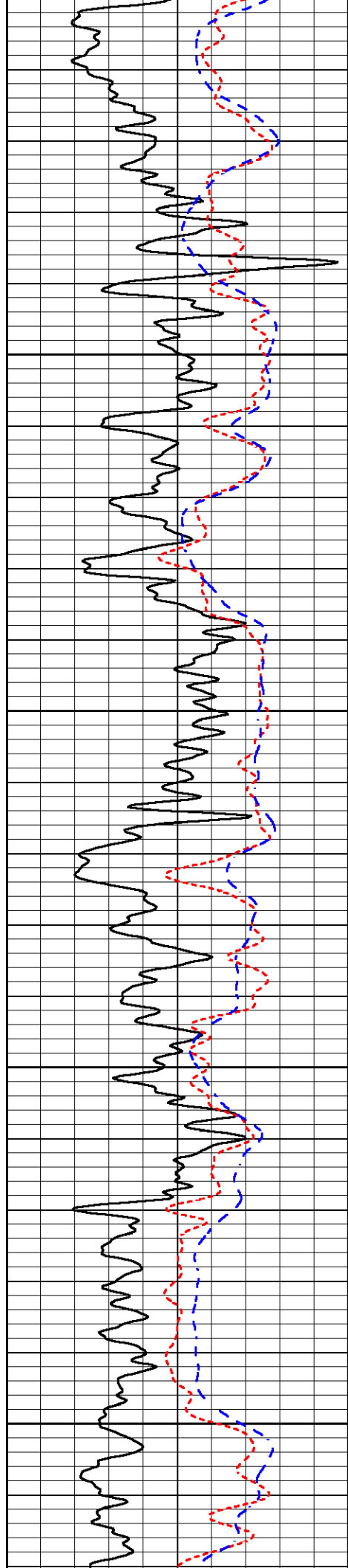
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File american_warrior_obrate_beach_2-26.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _dil
 Dataset Creation Thu May 05 19:18:22 2022
 Charted by Depth in Feet scaled 1:240





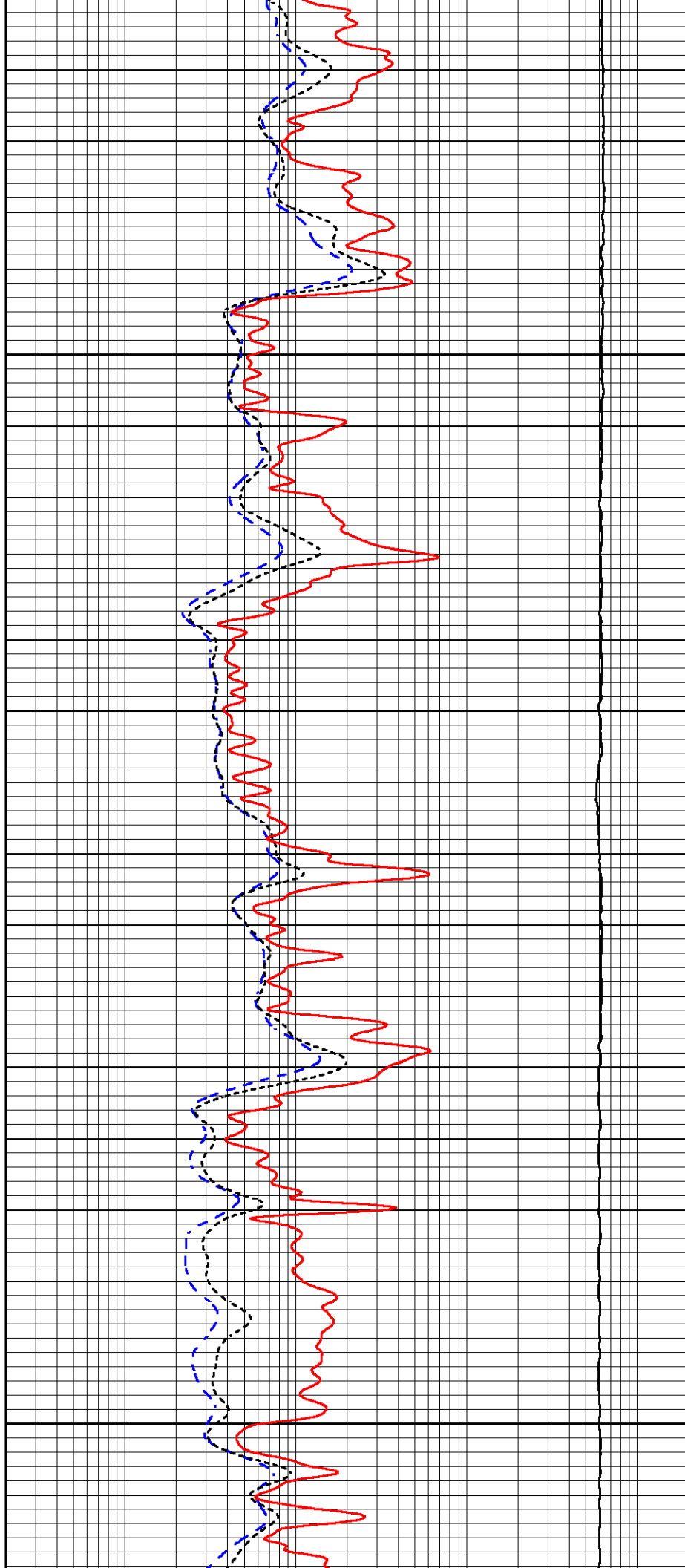
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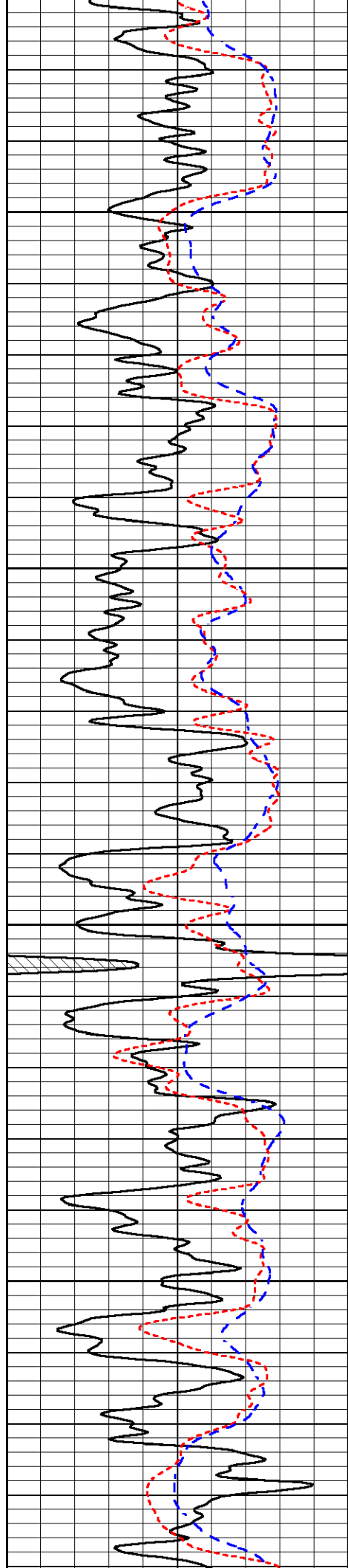
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2700

2750

2800



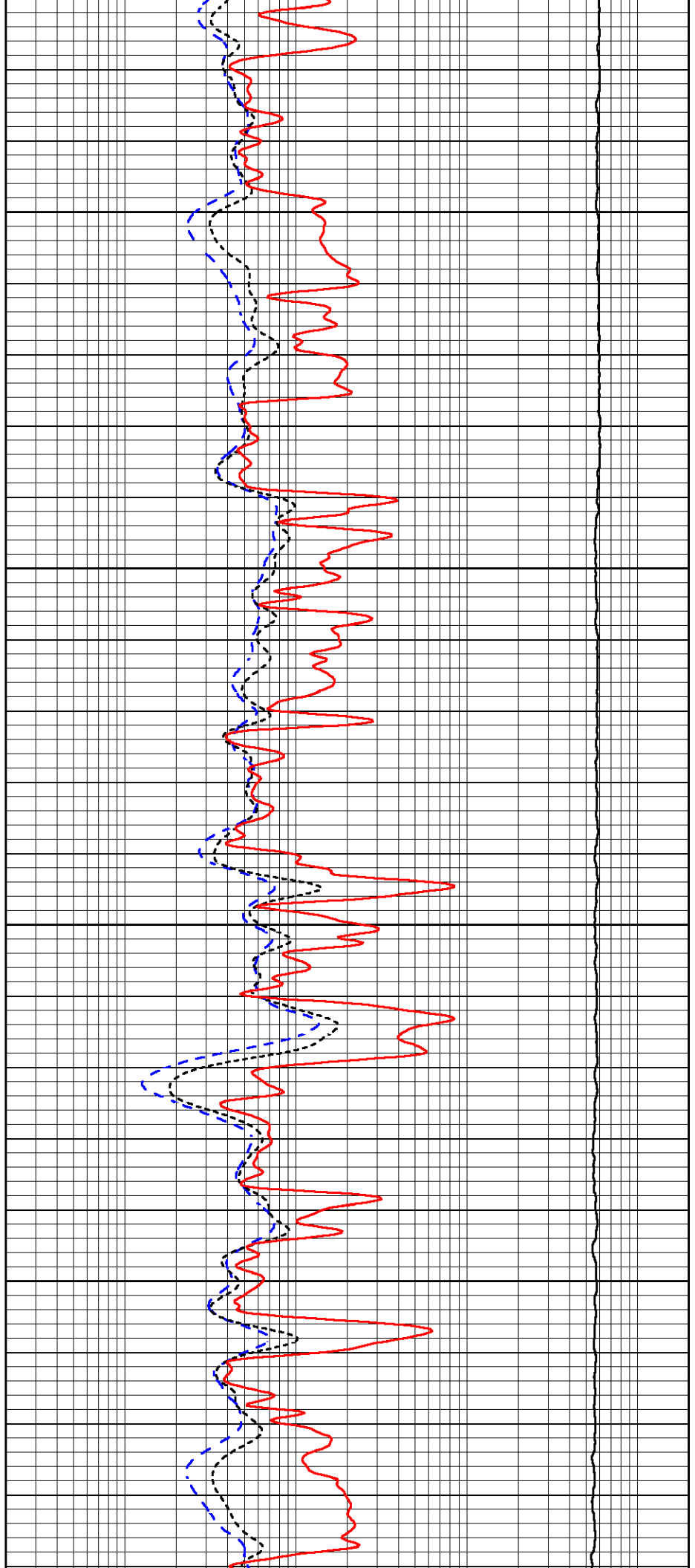


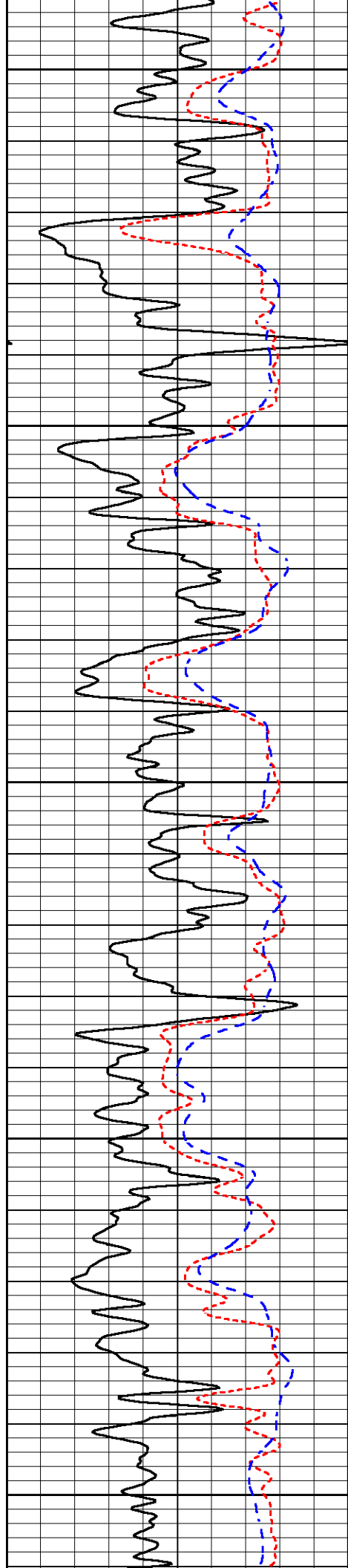
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2900

2950

3000





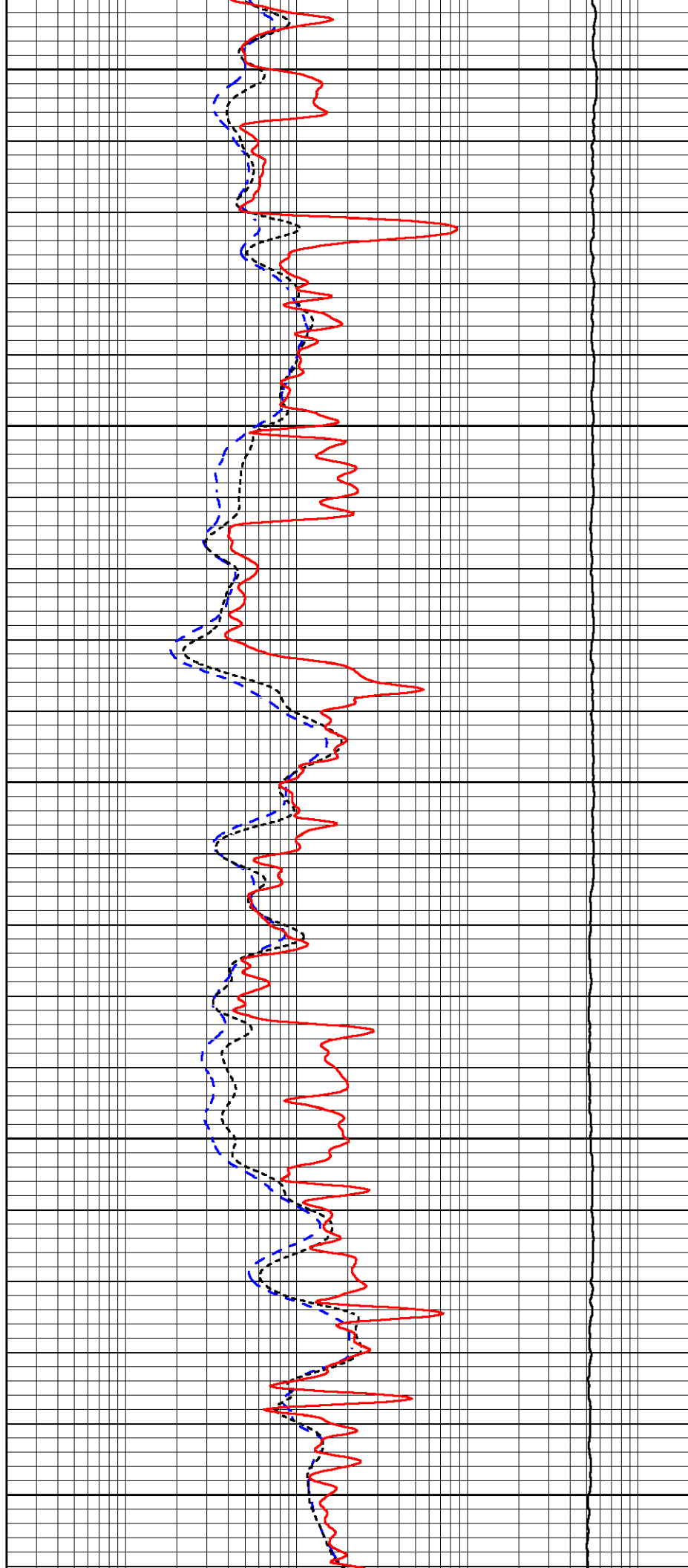
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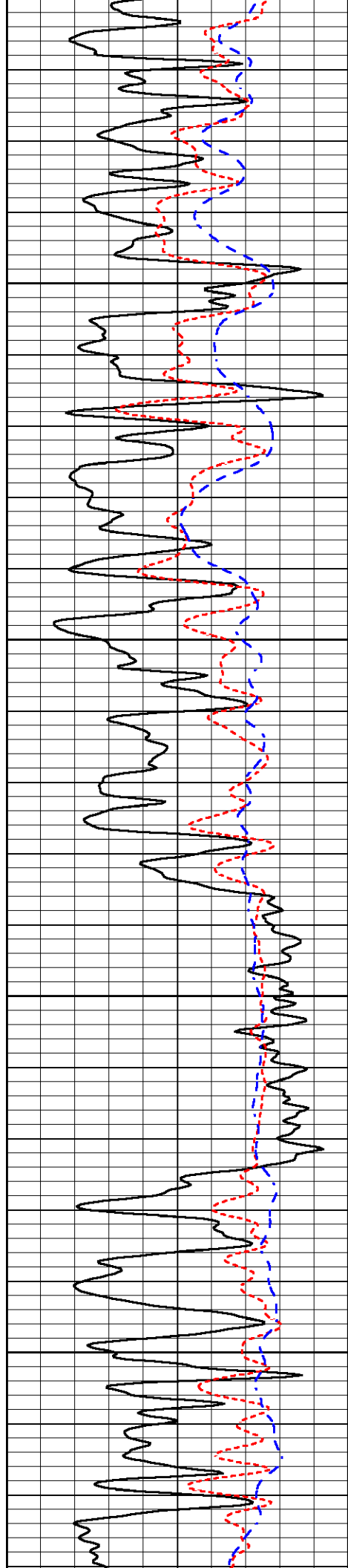
3100

3150

3200

3250



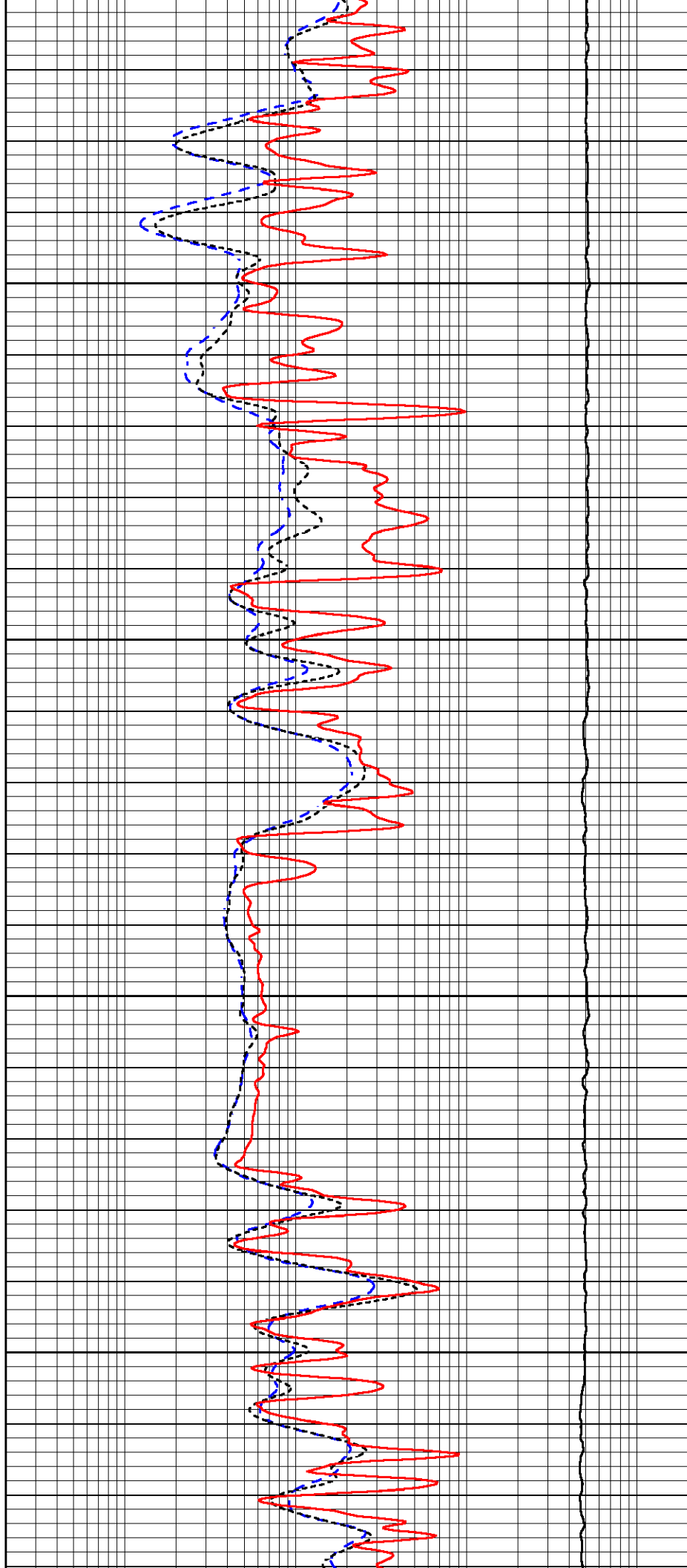


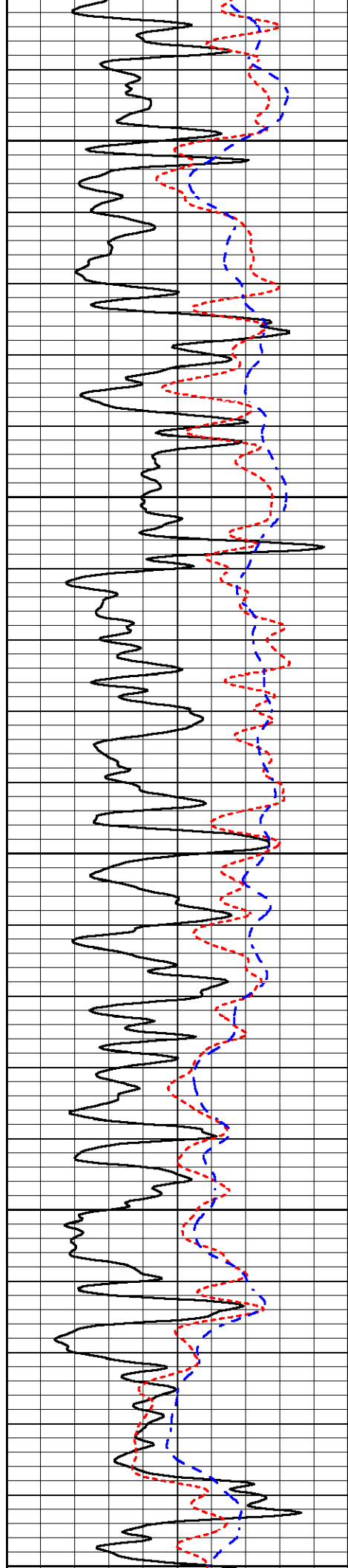
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3350

3400

3450





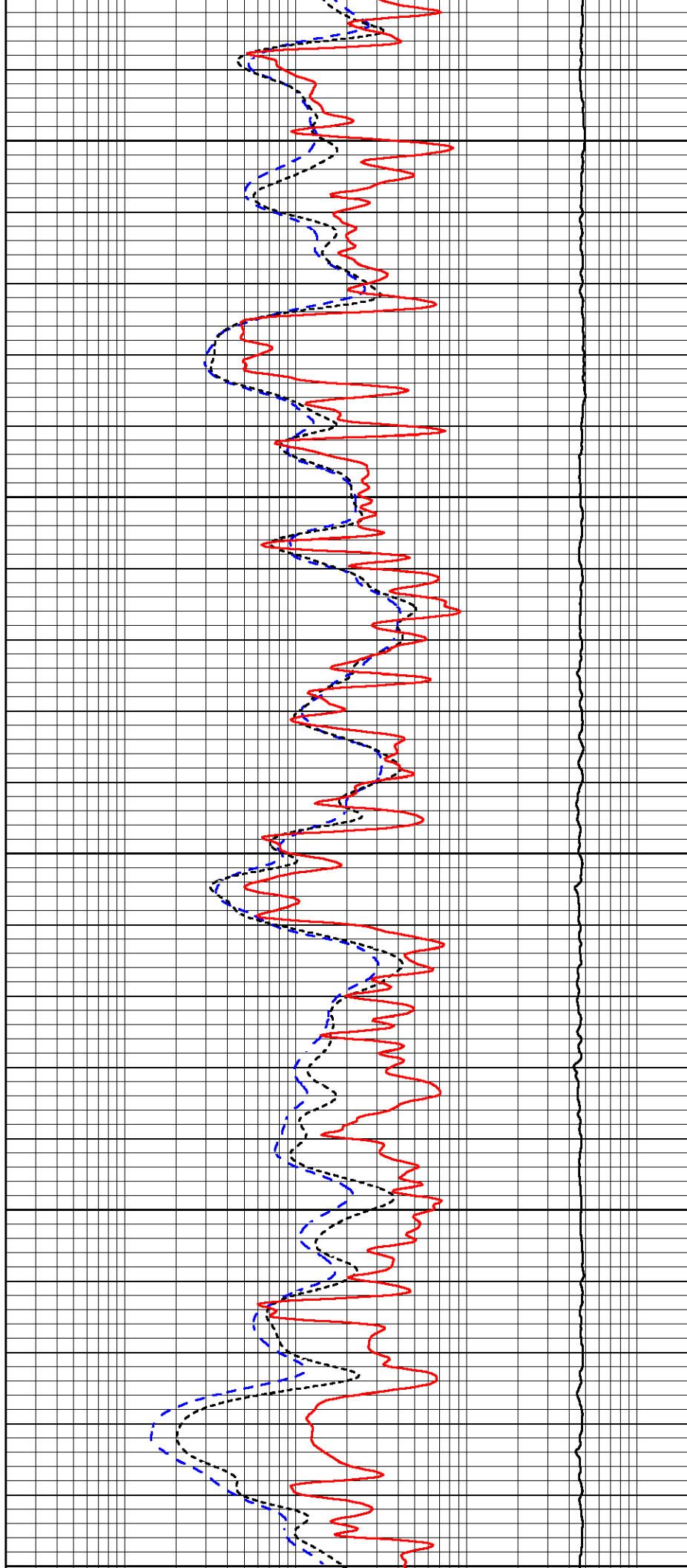
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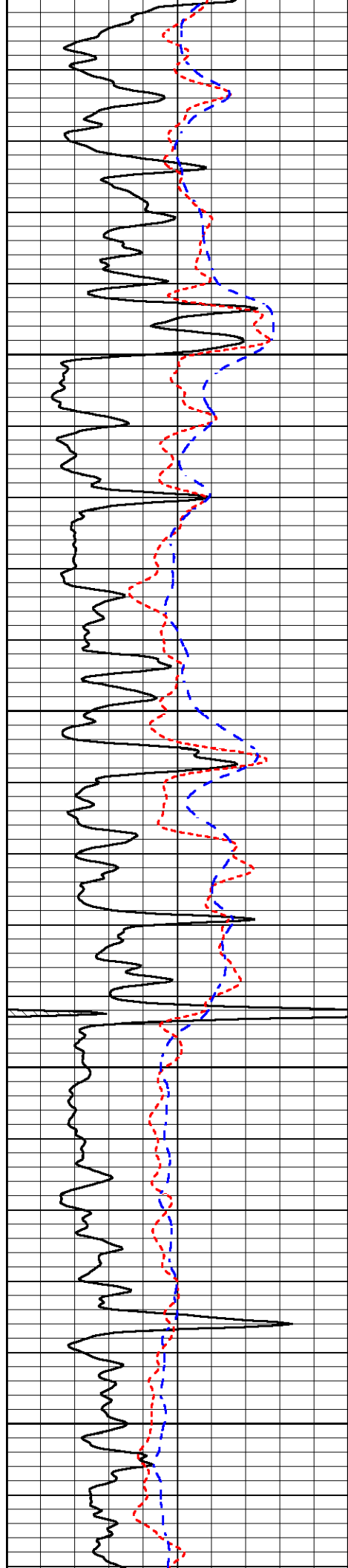
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3600

3650

3700





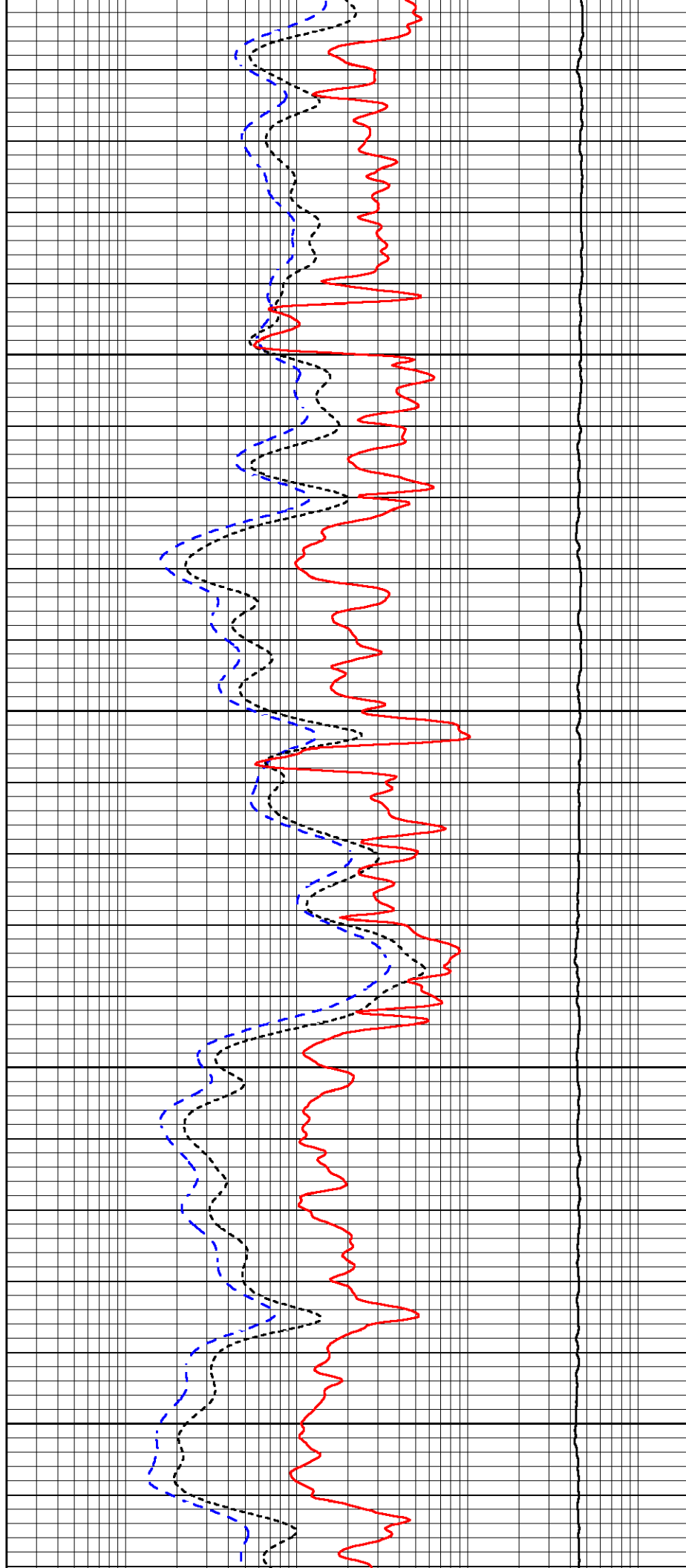
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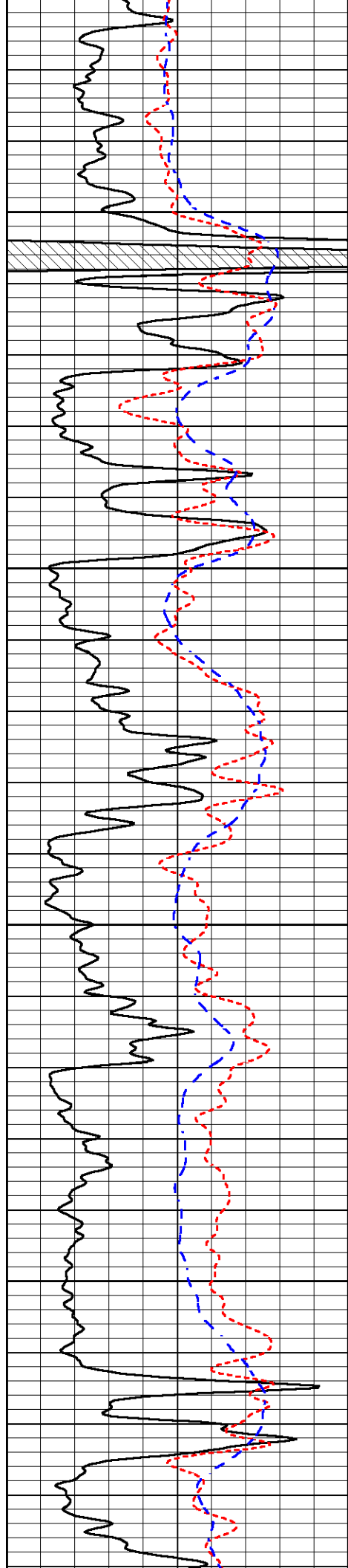
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3800

3850

3900



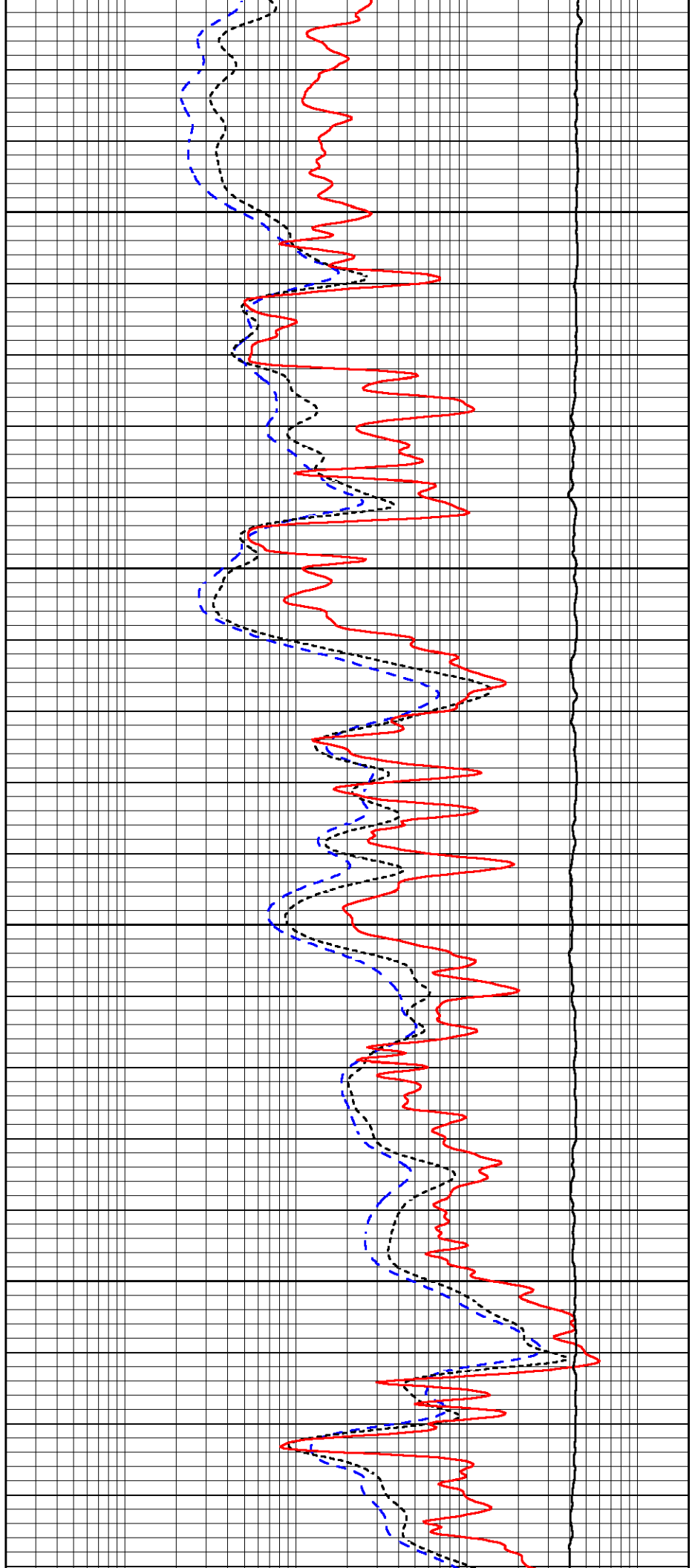


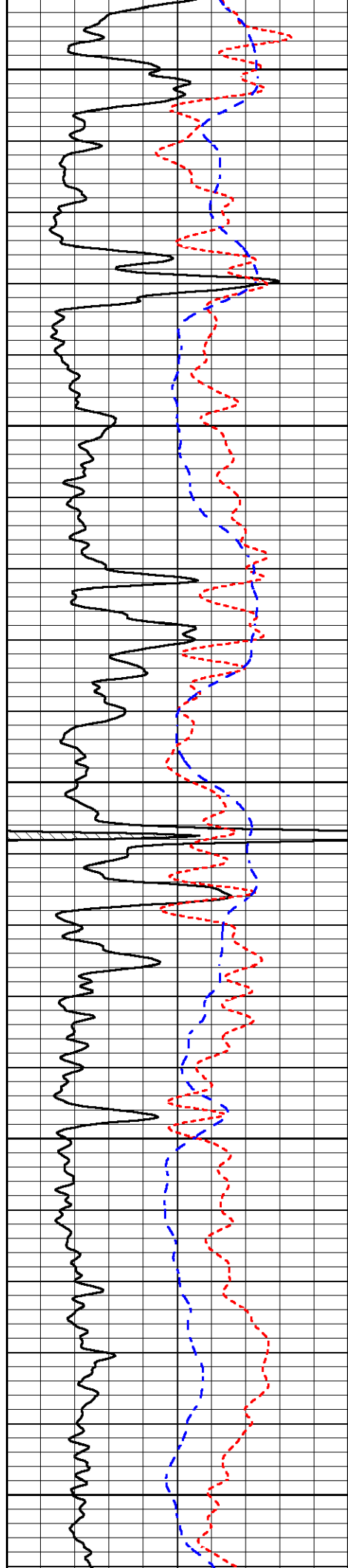
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4000

4050

4100





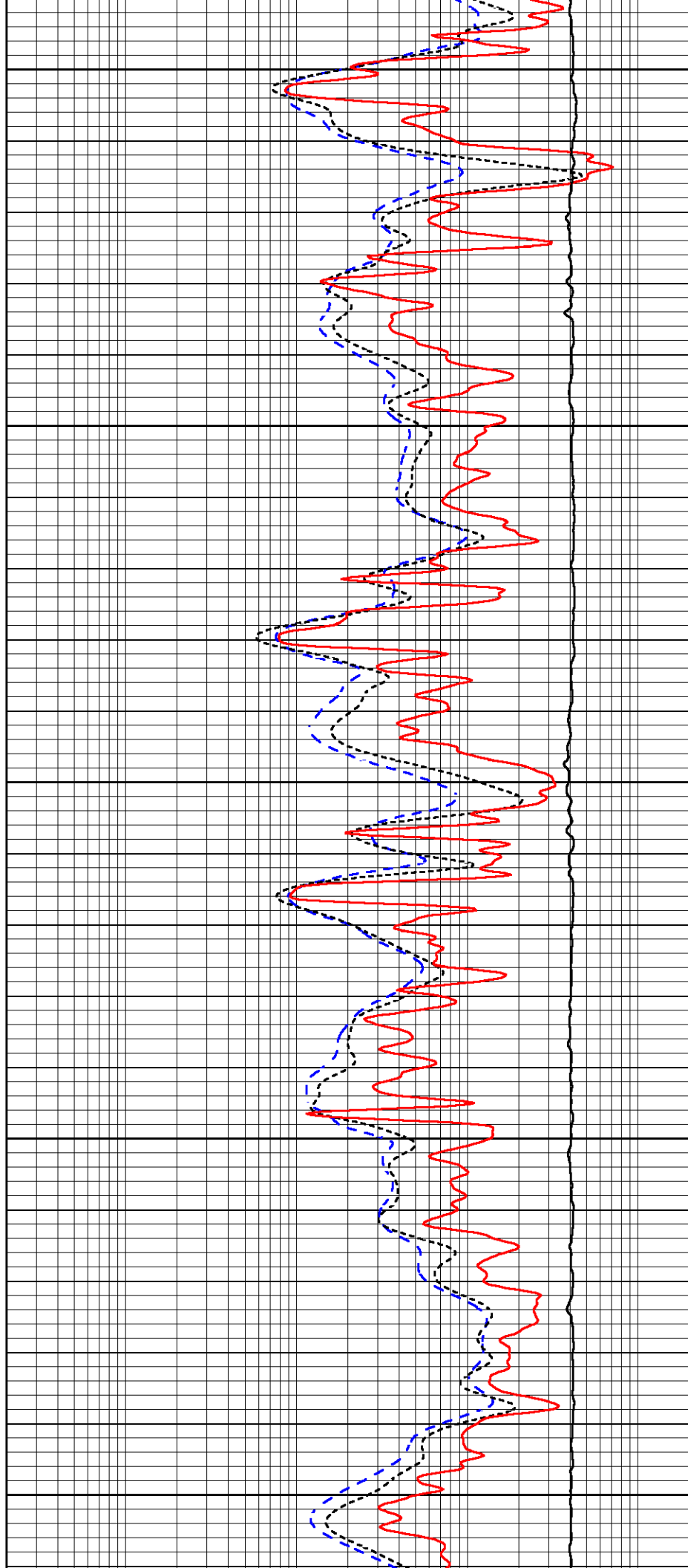
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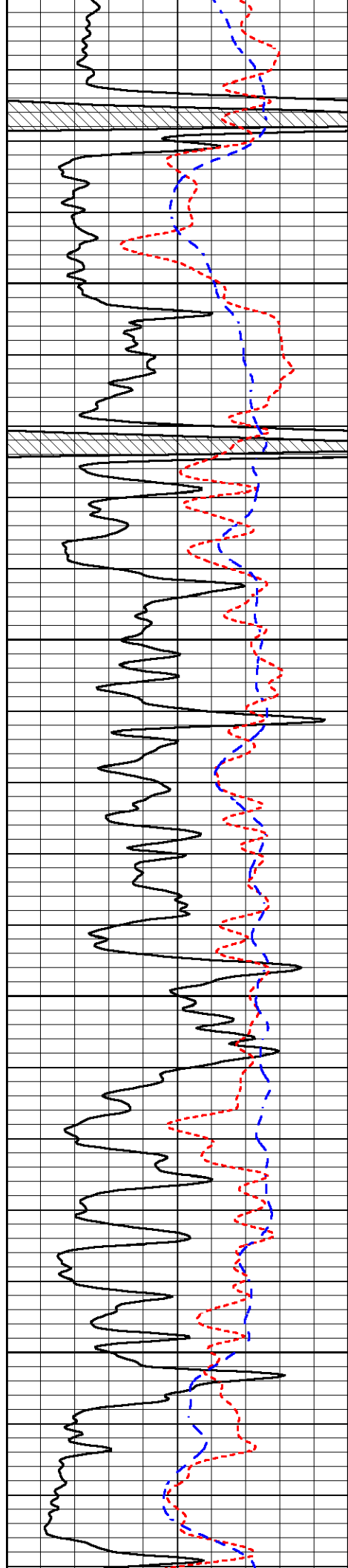
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4250

4300

4350



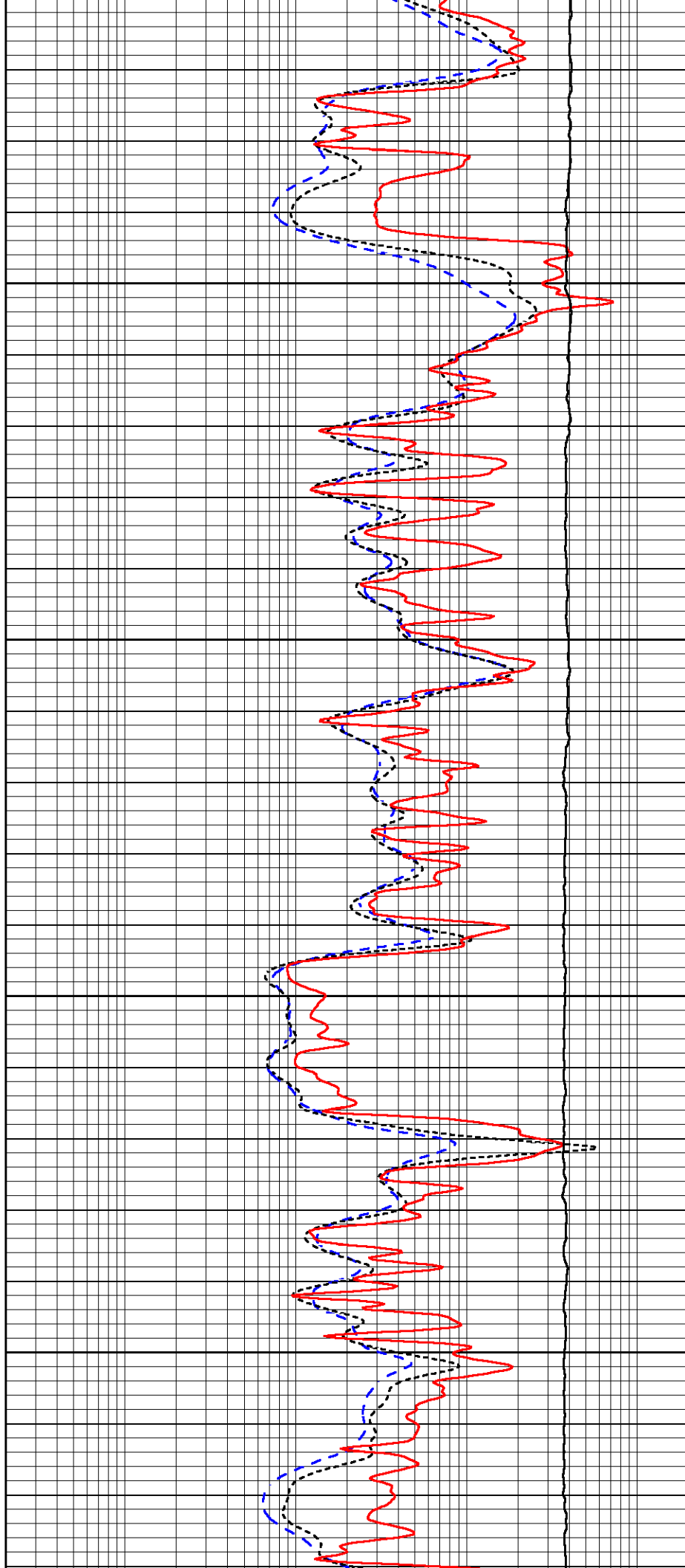


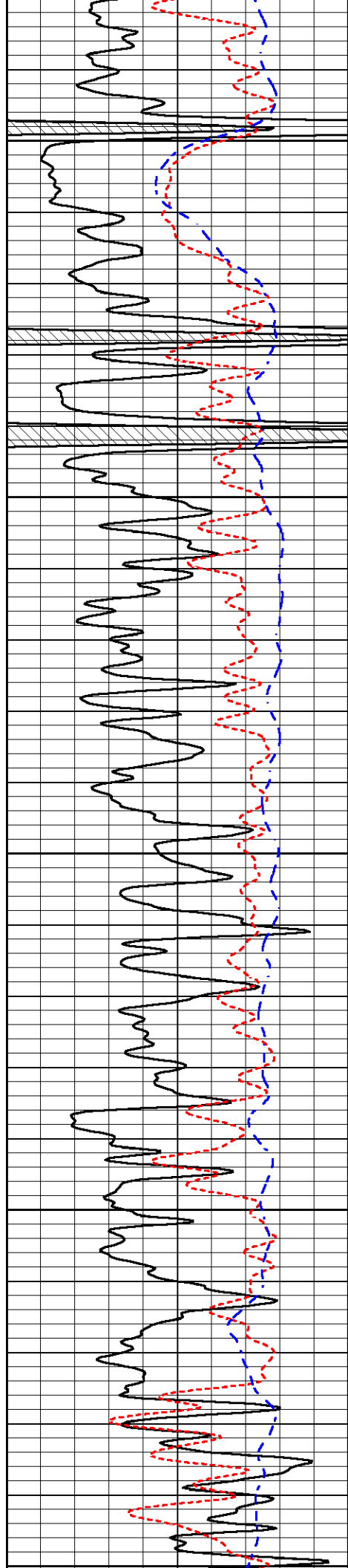
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4450

4500

4550





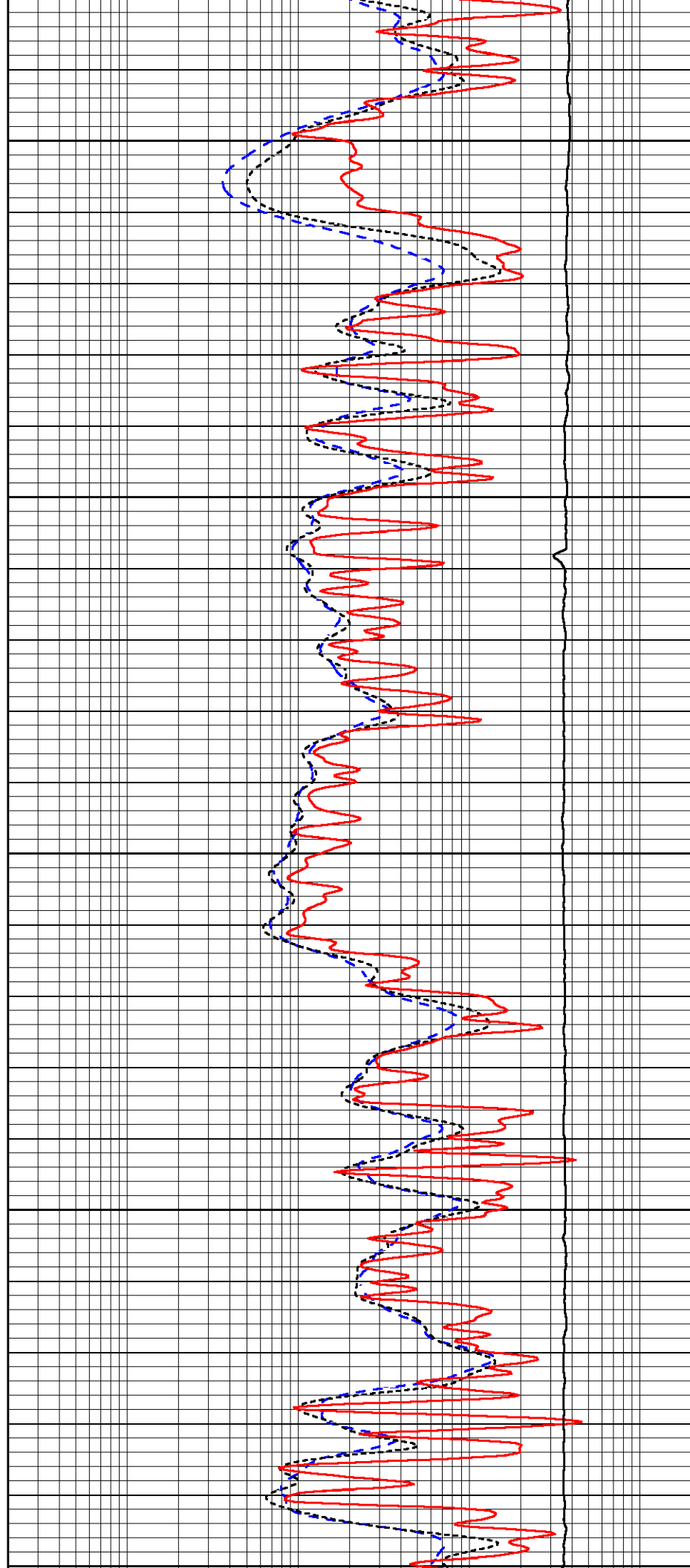
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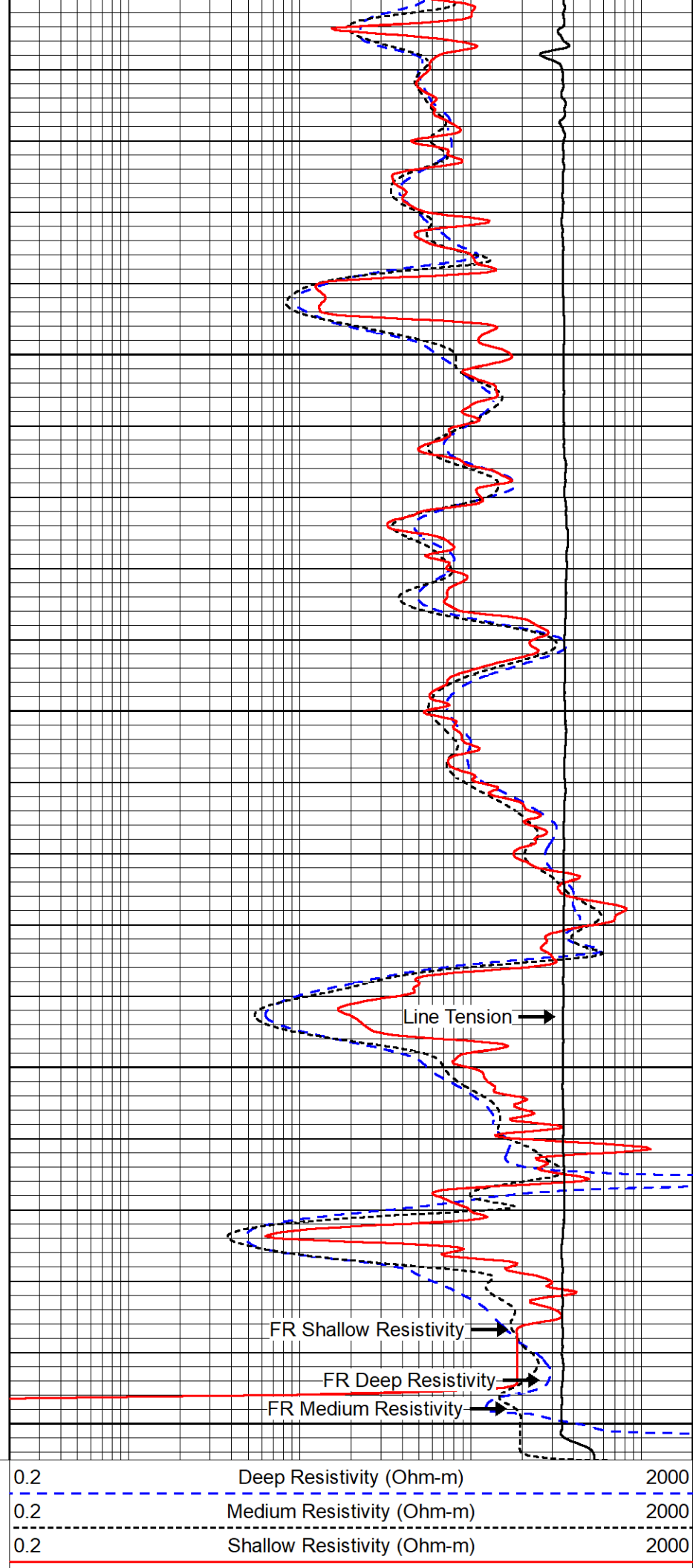
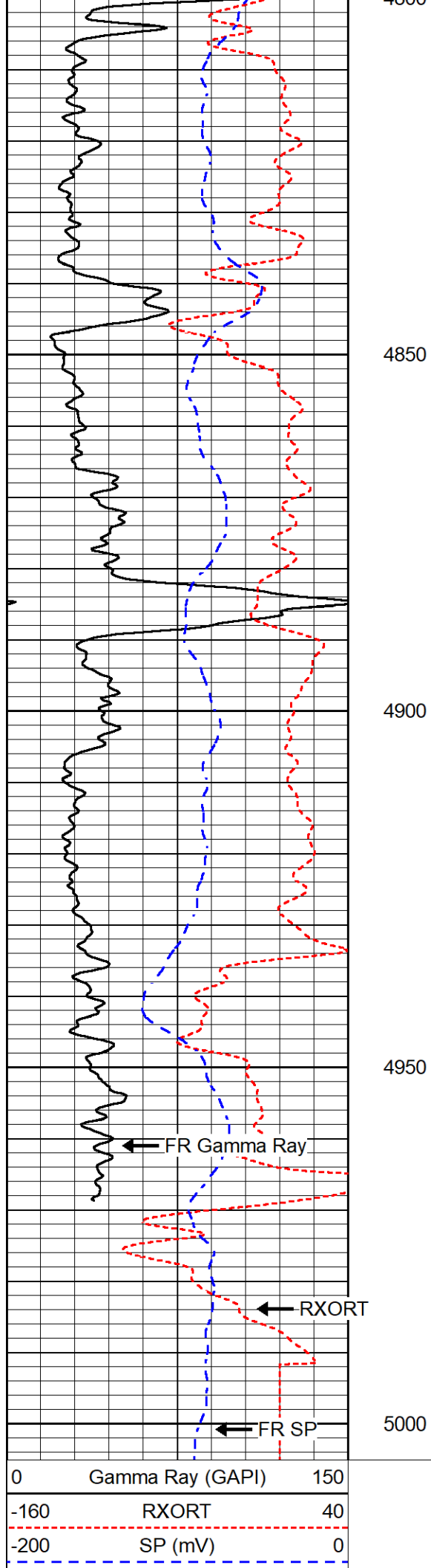
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4700

4750

4800







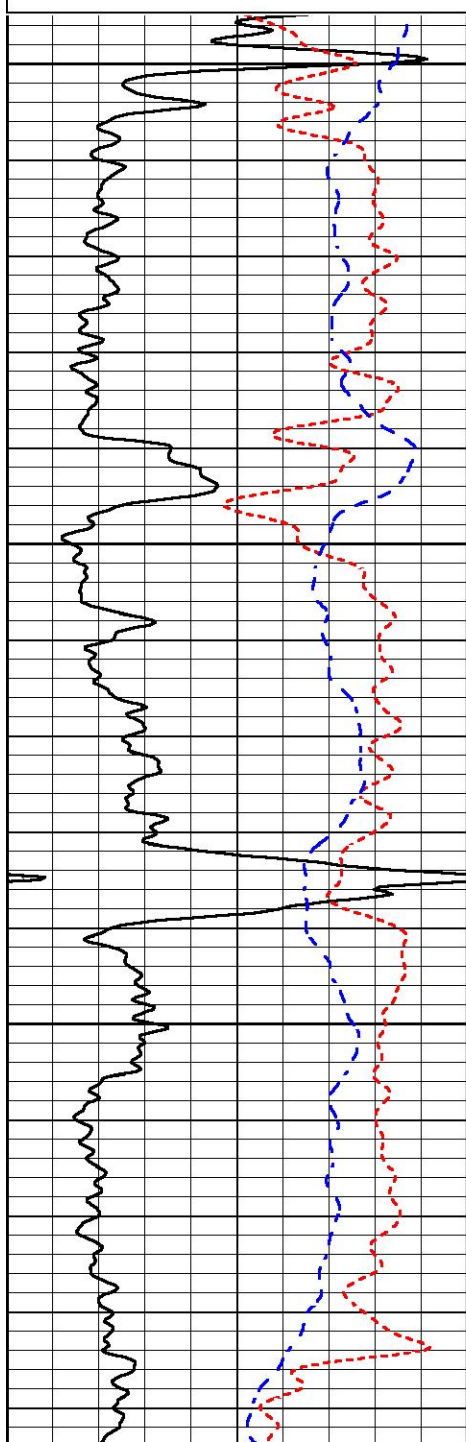
REPEAT SECTION

REPEAT PASS

Database File american_warrior_obrate_beach_2-26.db
Dataset Pathname stkml/pass2.1
Presentation Format _dil
Dataset Creation Thu May 05 19:20:26 2022
Charted by Depth in Feet scaled 1:240

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

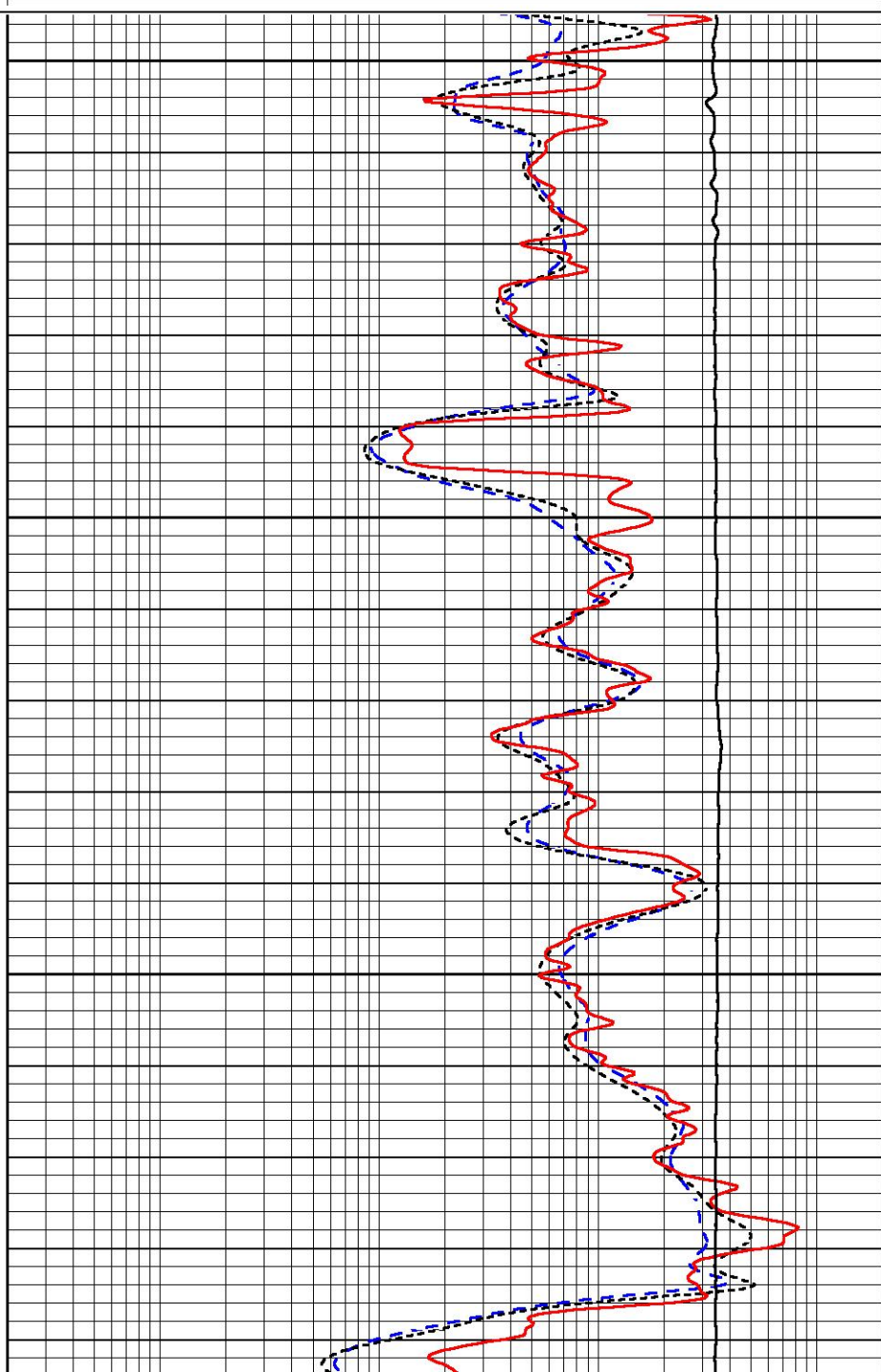
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

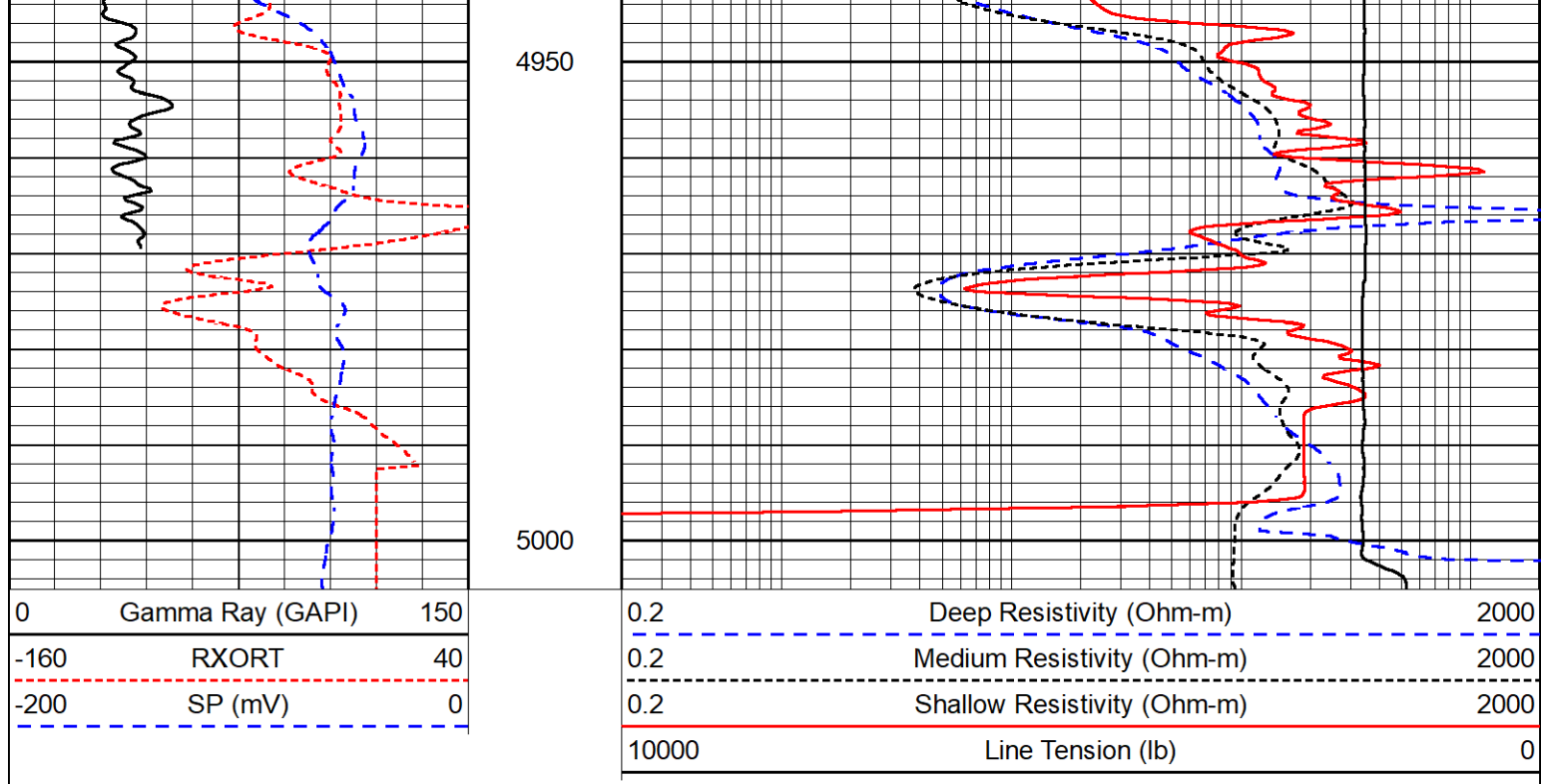


4800

4850

4900





Calibration Report

Database File american_warrior_obrate_beach_2-26.db
Dataset Pathname stkml/pass3.10
Dataset Creation Thu May 05 18:10:28 2022

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
Surface Cal Performed: Sat Apr 30 02:12:10 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-39.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.305	-34.000

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	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.3500

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	American Warrior, Inc.
Well	O'Brate-Beach #2-26
Field	Wildcat
County	Finney
State	Kansas