

DUAL INDUCTION LOG

MIDWEST WIRELINE

Company American Warrior, Inc.		Company American Warrior, Inc.	
Well Dible #1-28	Well Dible #1-28		
Field	Field		
County Thomas	County Thomas	State Kansas	State Kansas
State Kansas	Location: API #: 15-193-21128-00-00		
SEC 28 TWP 6S RGE 31W		Other Services	
Permanent Datum	Ground Level	Elevation	2950
Log Measured From	Kelly Bushing	K.B.	2963
Drilling Measured From	Kelly Bushing	D.F.	2950
G.L. 2950		C.N.L./C.D.L. MEL/BHCS	
Date	5/27/2024		
Run Number	One		
Depth Driller	4583		
Depth Logger	4585		
Bottom Logged Interval	4584		
Top Log Interval	350		
Casing Driller	8.625 @ 355		
Casing Logger	355		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	500		
Density / Viscosity	9.3 53		
pH / Fluid Loss	11.0 5.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.85 @ 80		
Rmt @ Meas. Temp	0.64 @ 85		
Rmc @ Meas. Temp	1.15 @ 80		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.56 @ 122		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	122		
Equipment Number	110		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Marc Downing		

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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.

Rexford,
North to Y Rd,
2 West to 34, 1 1/4 North,
West into

Log Measured From: Kelly Bushing

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: Marc Downing
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\american warrior_dible 1-28.db
Dataset field/well/stkml/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	122	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	421	80		4585

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

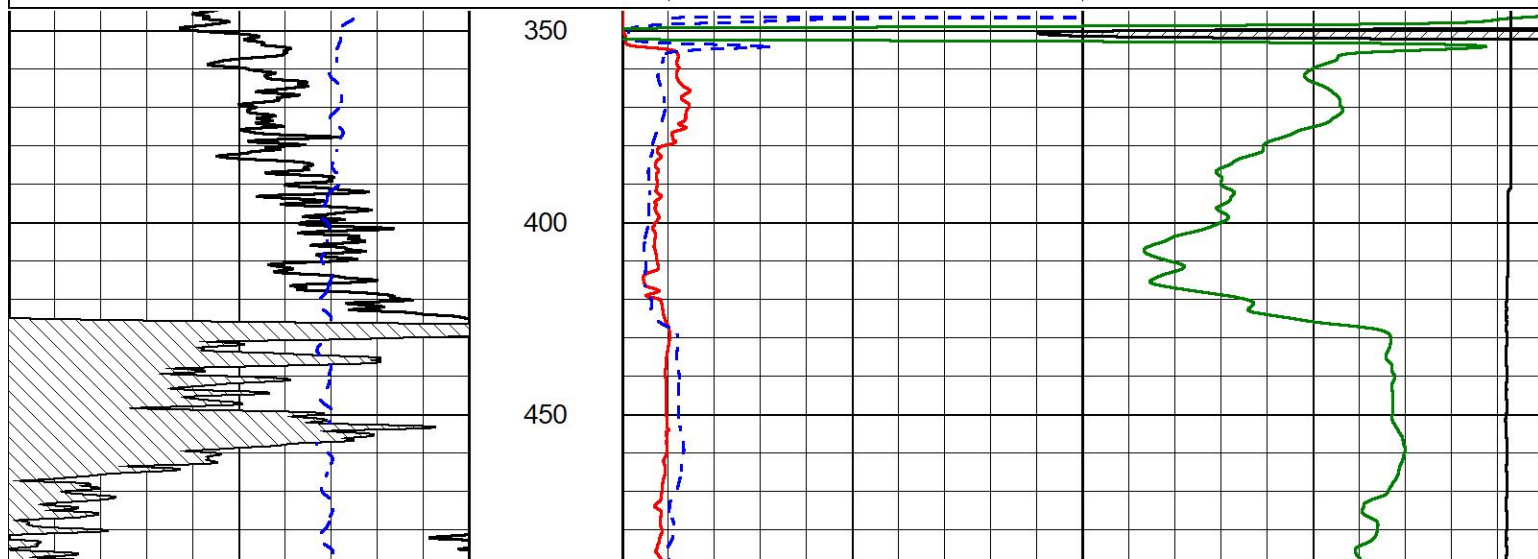


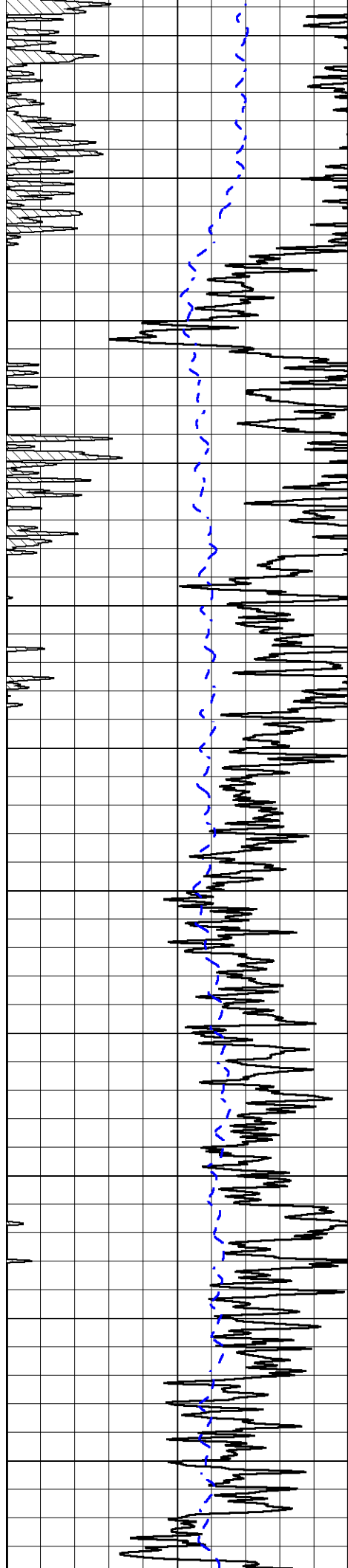
2" SCALE RESISTIVITY

MAIN PASS

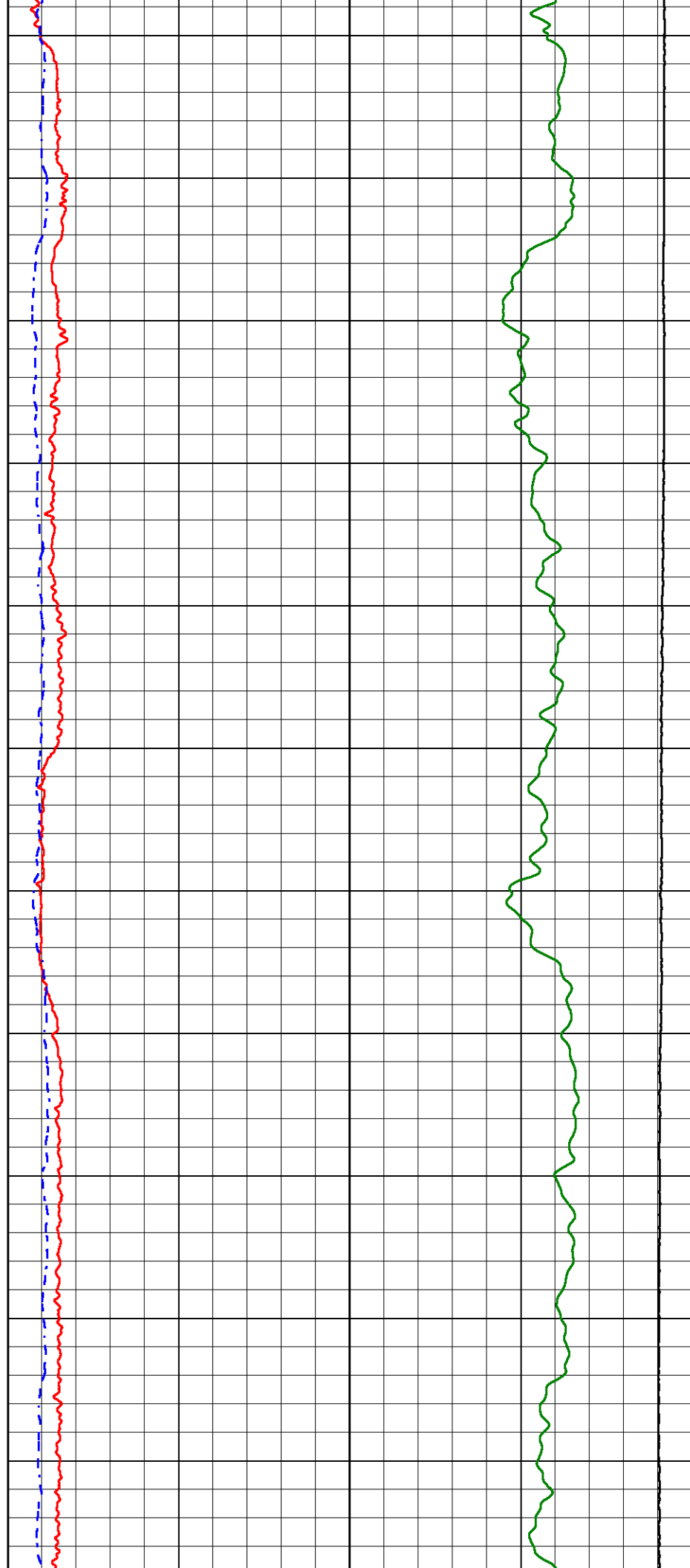
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Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Mon May 27 22:09:59 2024
Charted by Depth in Feet scaled 1:600

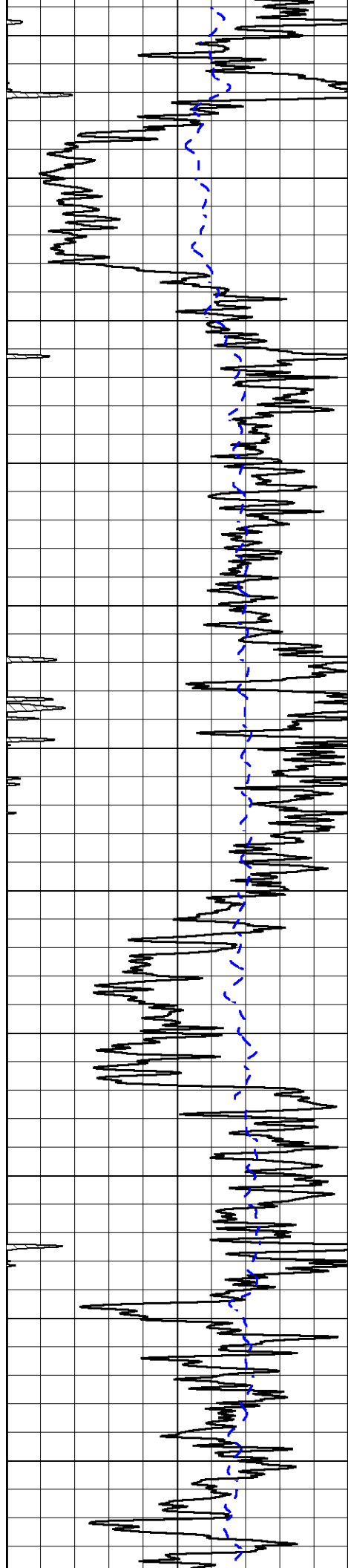
0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200





500
550
600
650
700
750
800
850
900
950
1000





1050

1100

1150

1200

1250

1300

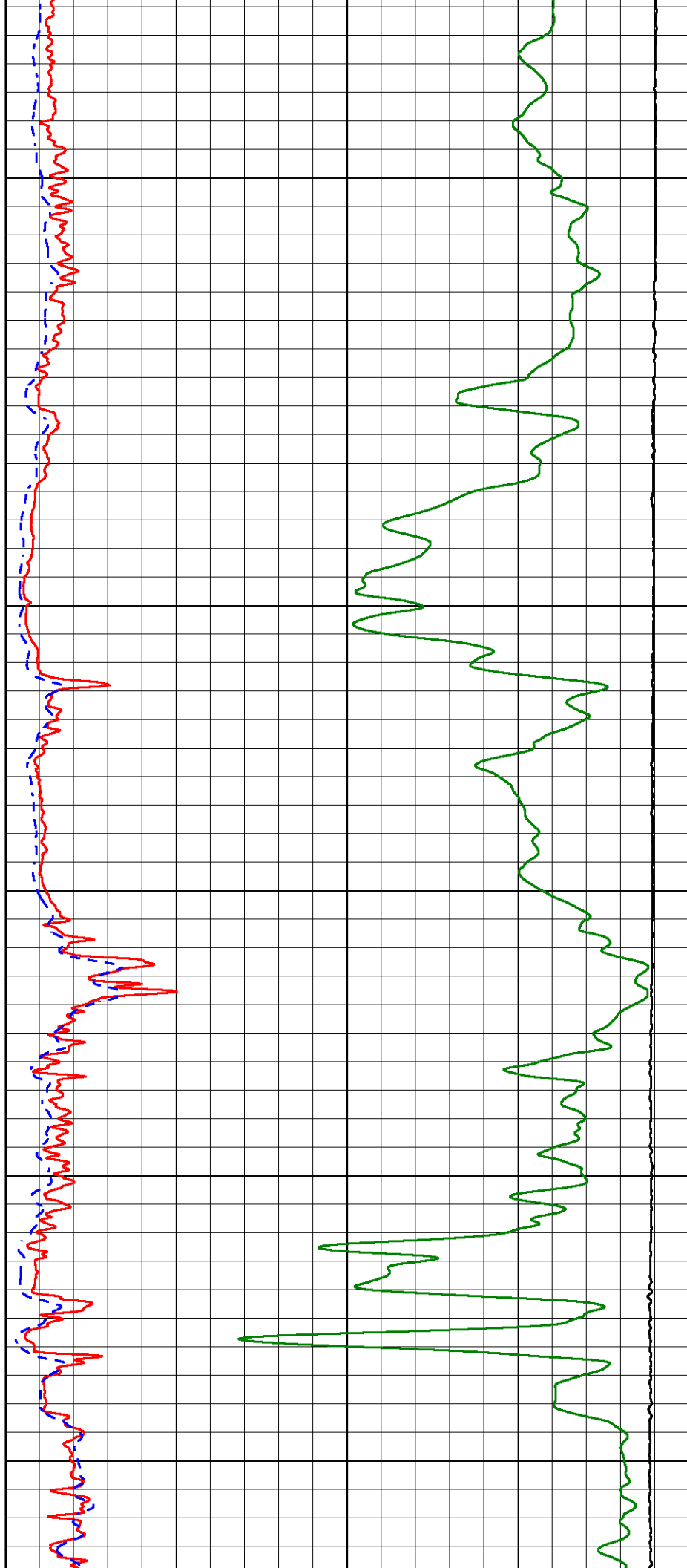
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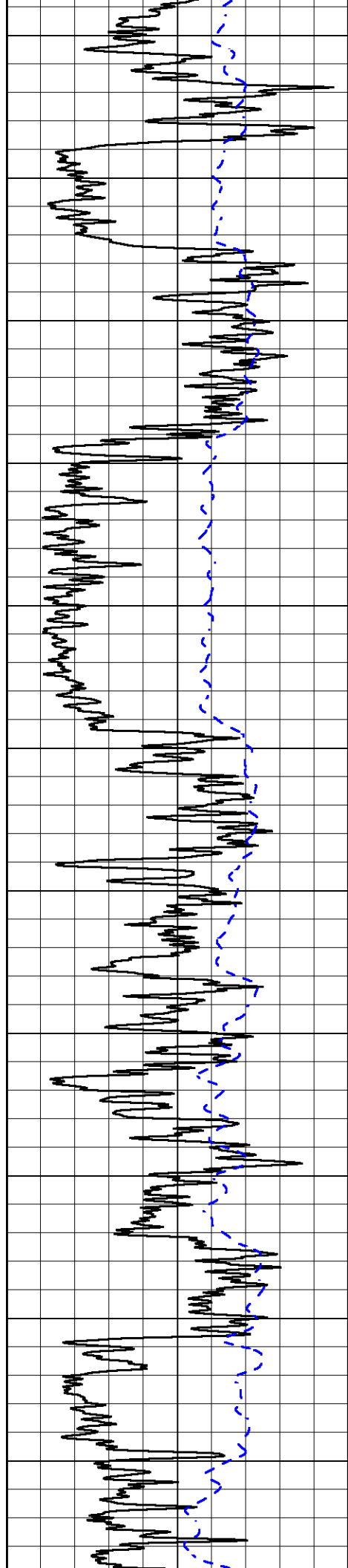
1400

1450

1500

1550





1600

1650

1700

1750

1800

1850

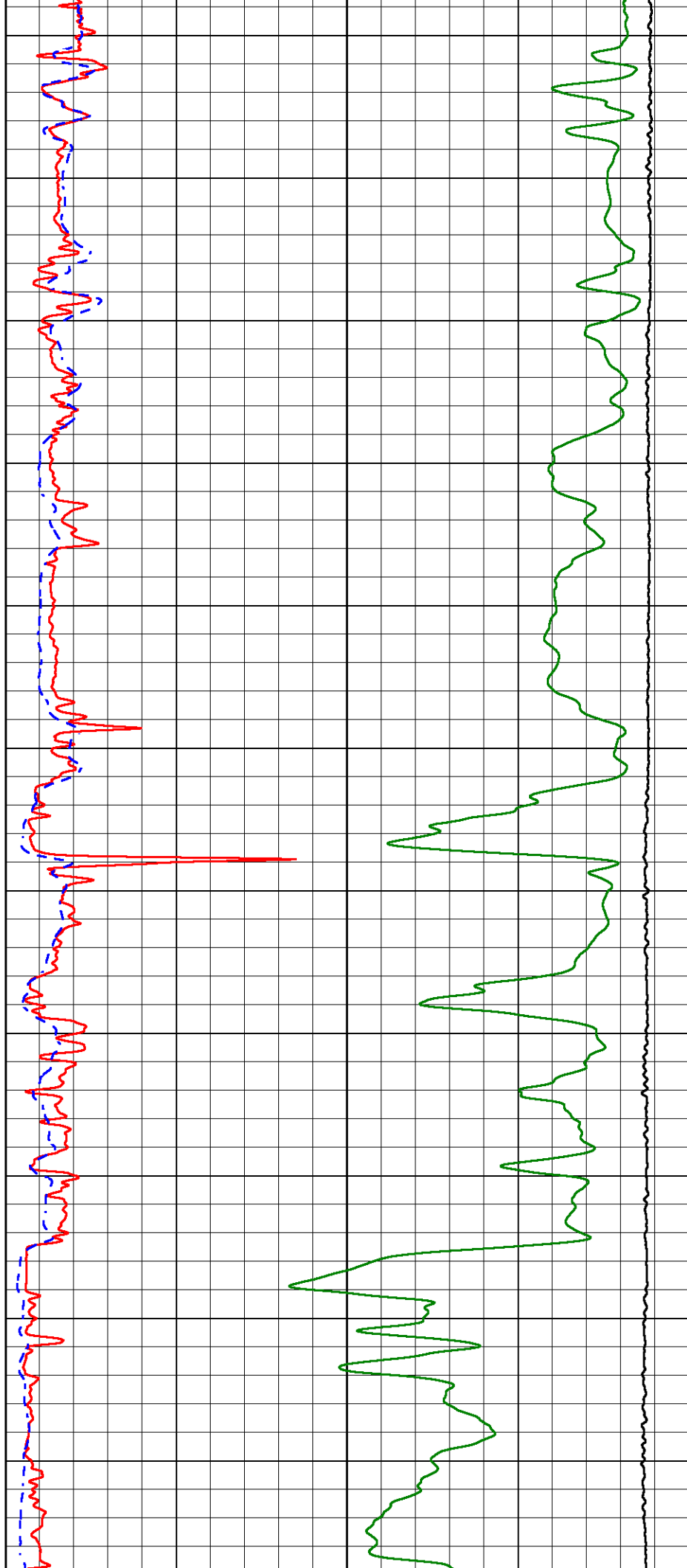
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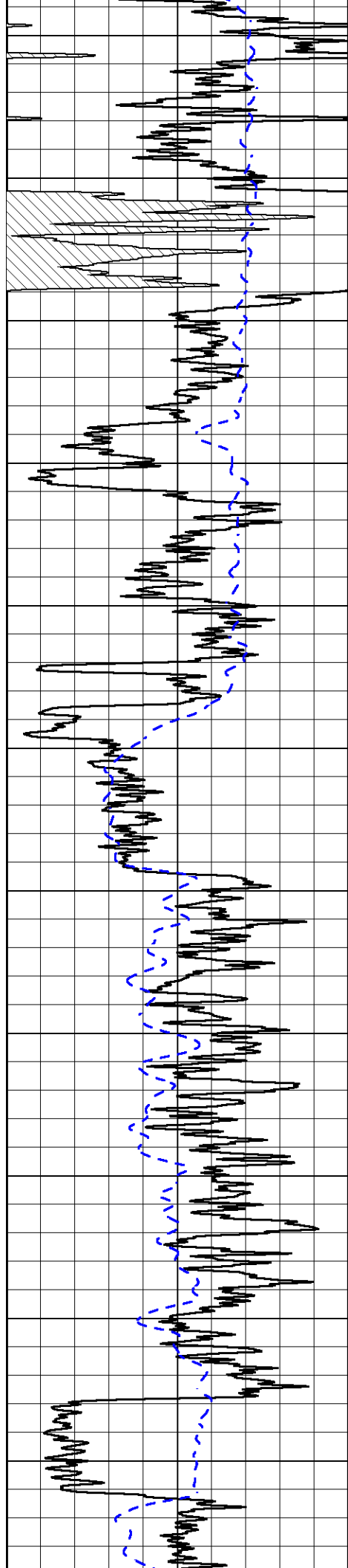
1950

2000

2050

2100





2150

2200

2250

2300

2350

2400

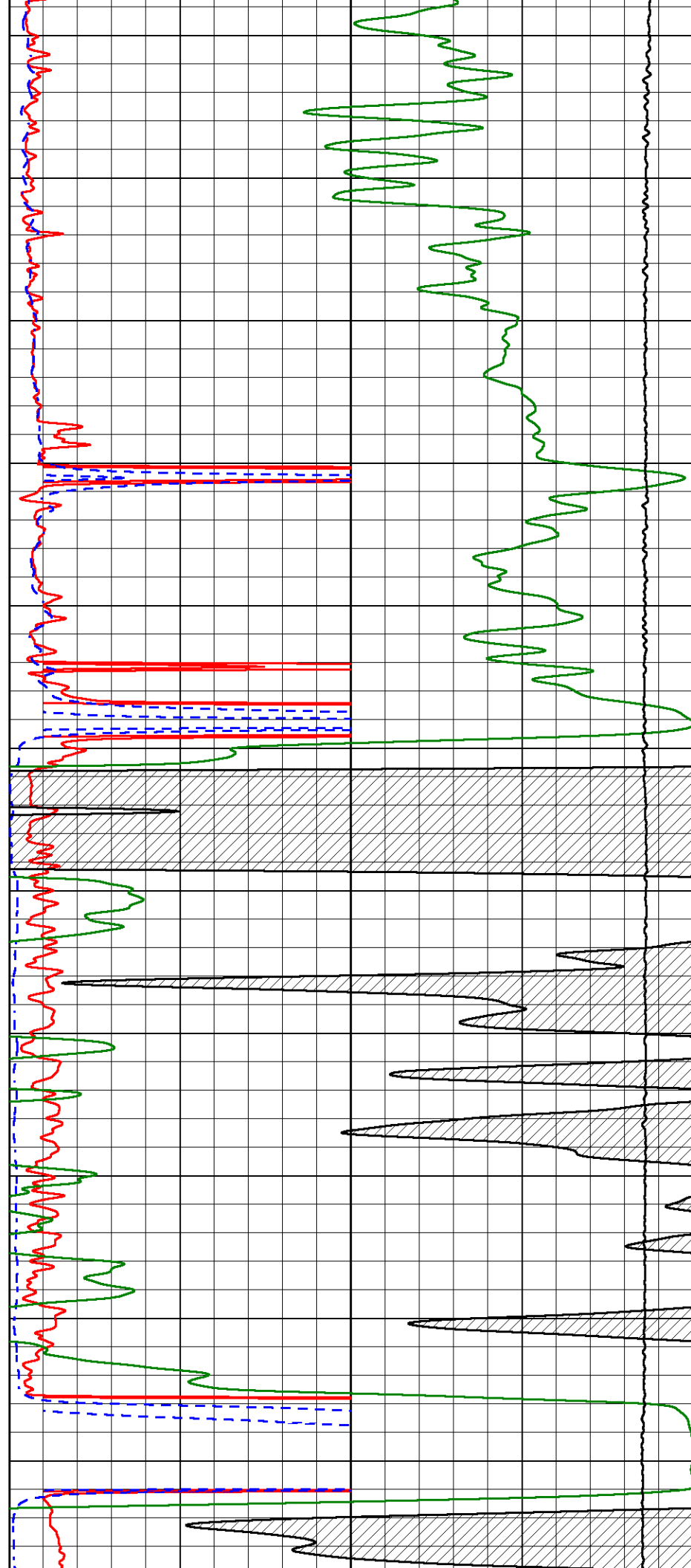
2450

2500

2550

2600

2650



2700

2750

2800

2850

2900

2950

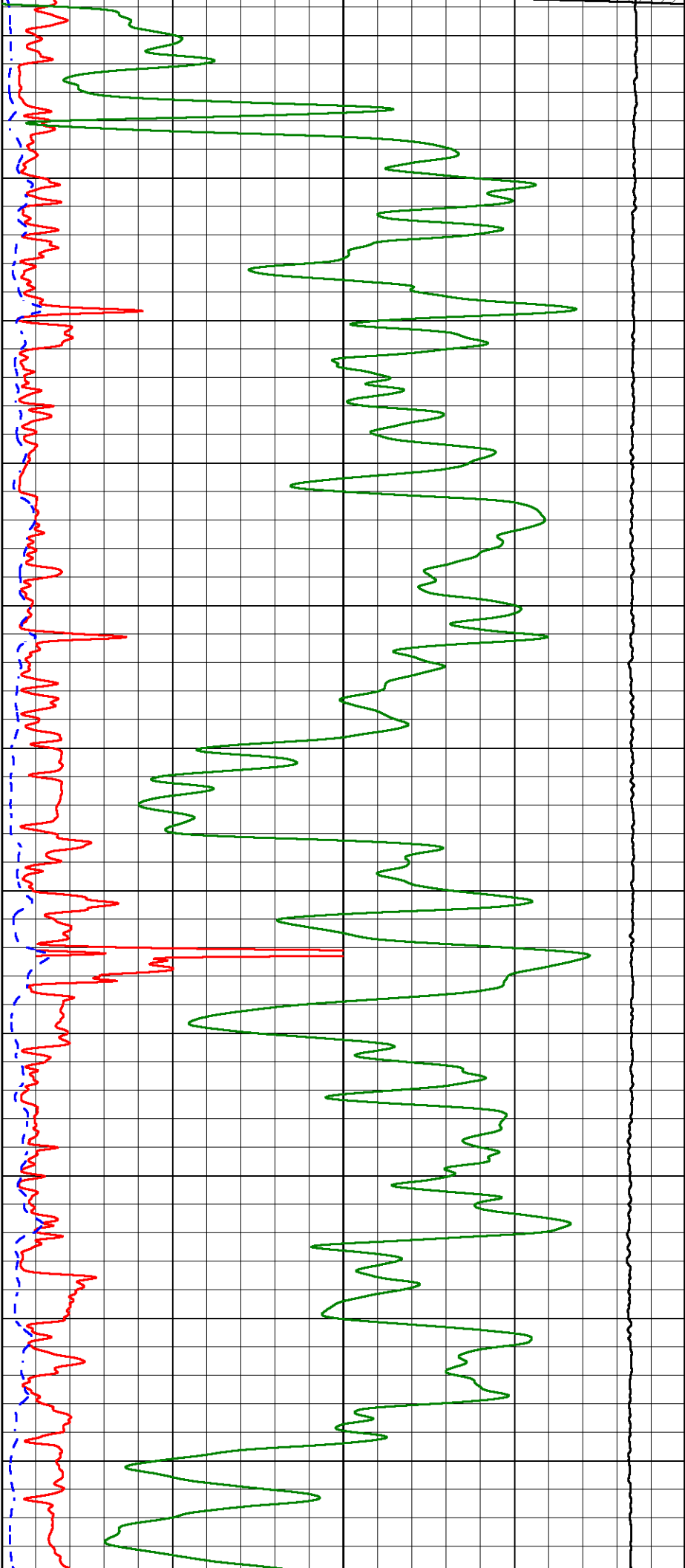
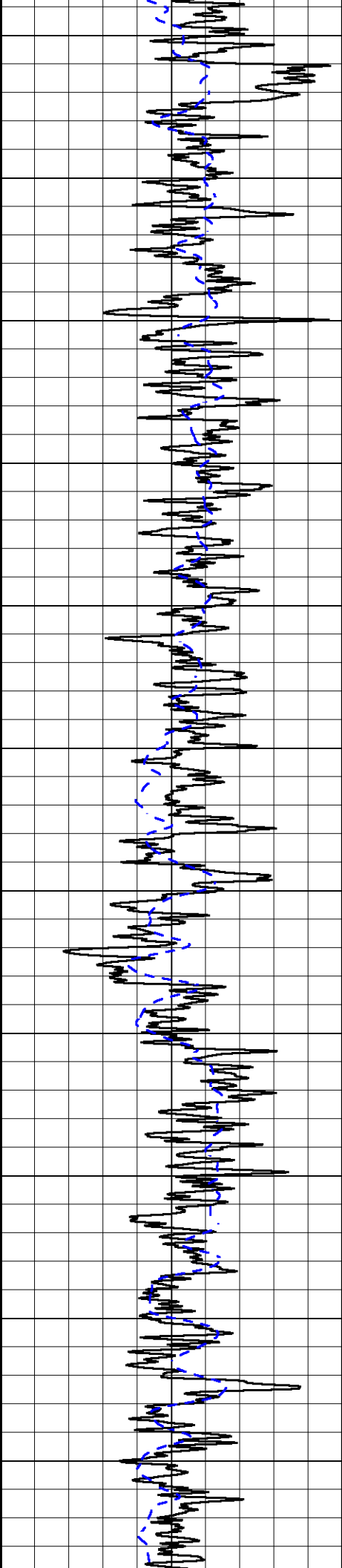
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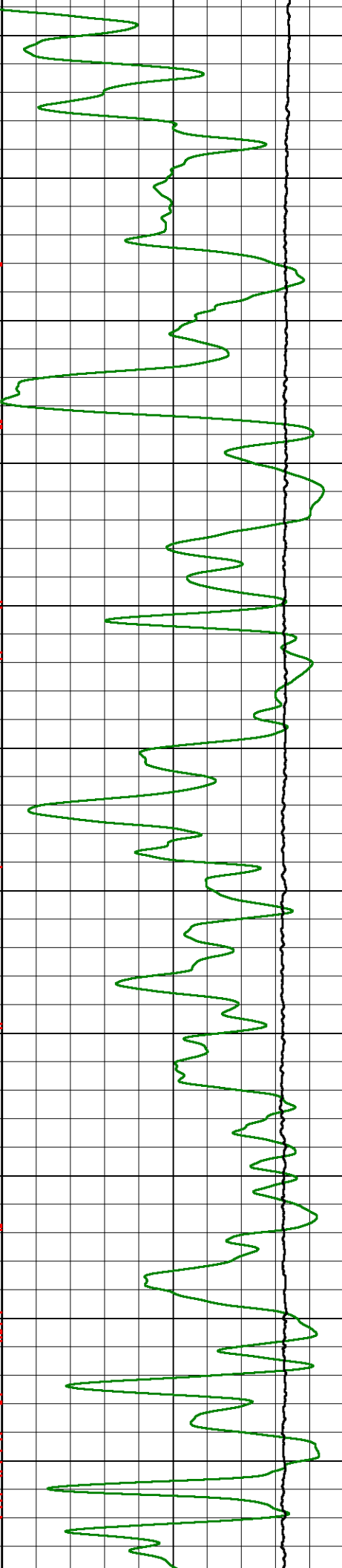
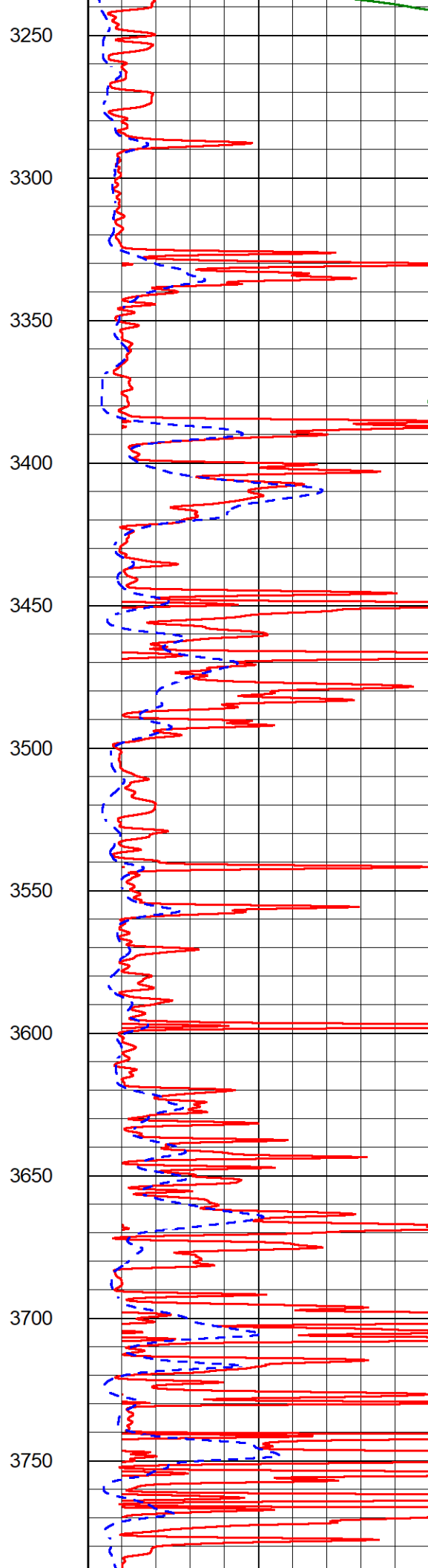
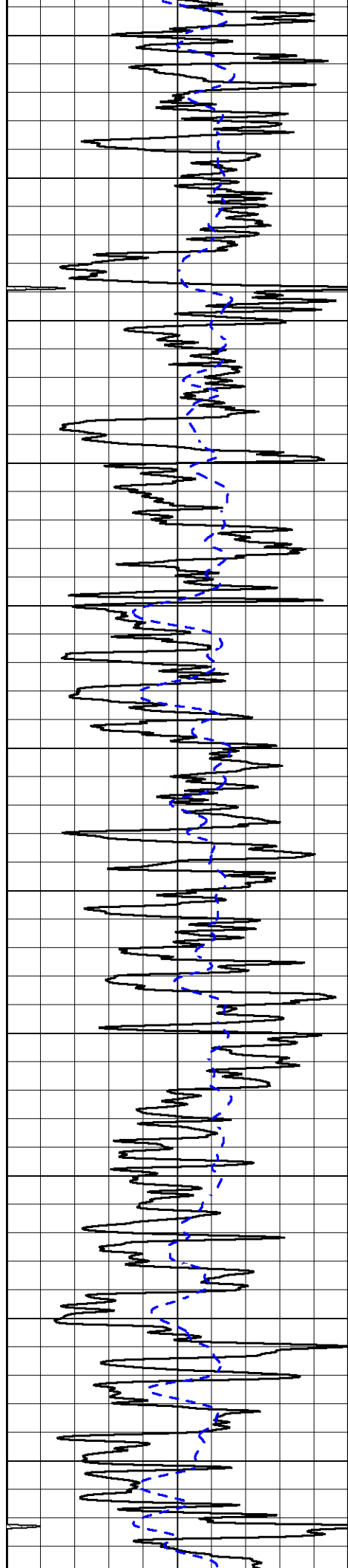
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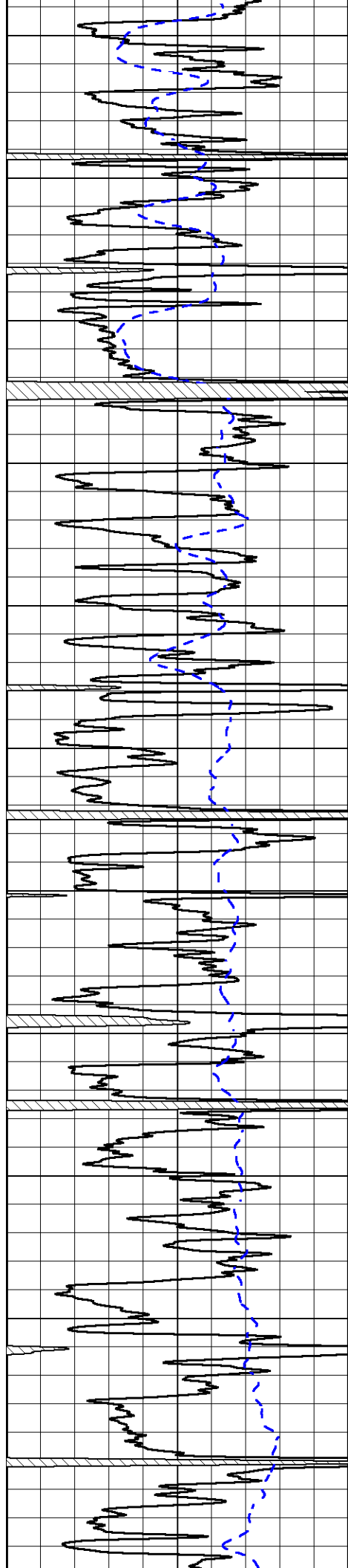
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3150

3200







3800

3850

3900

3950

4000

4050

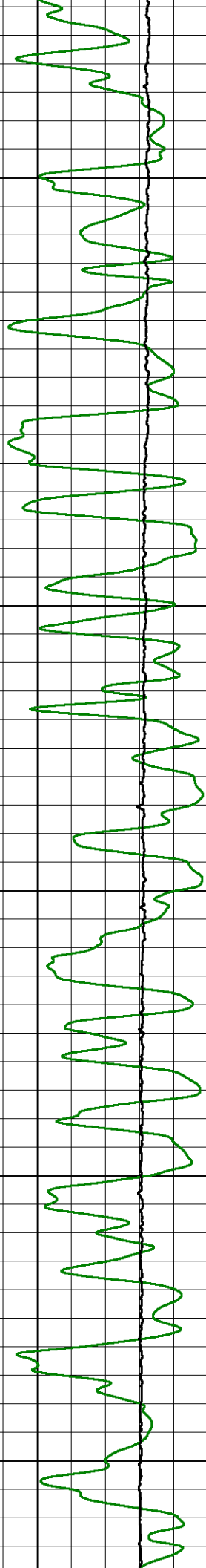
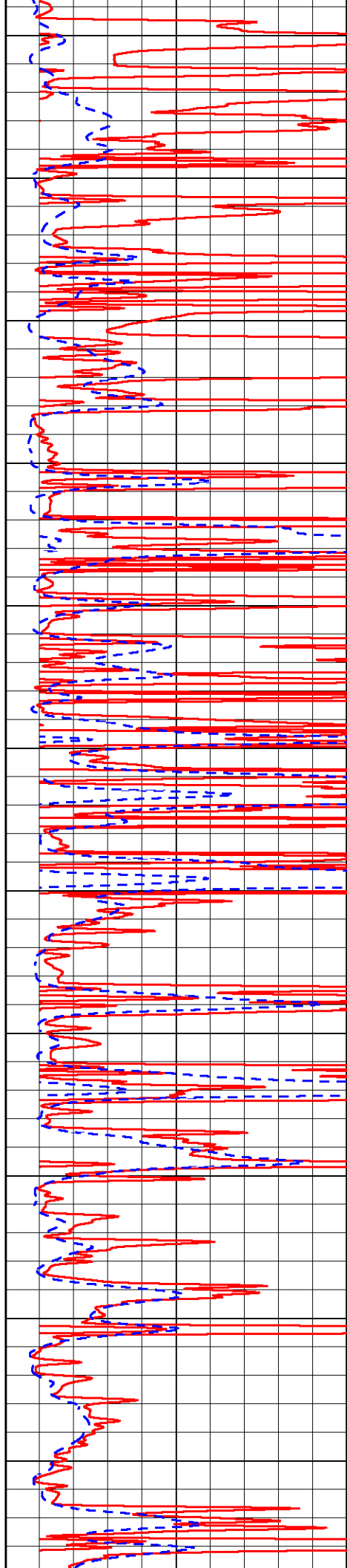
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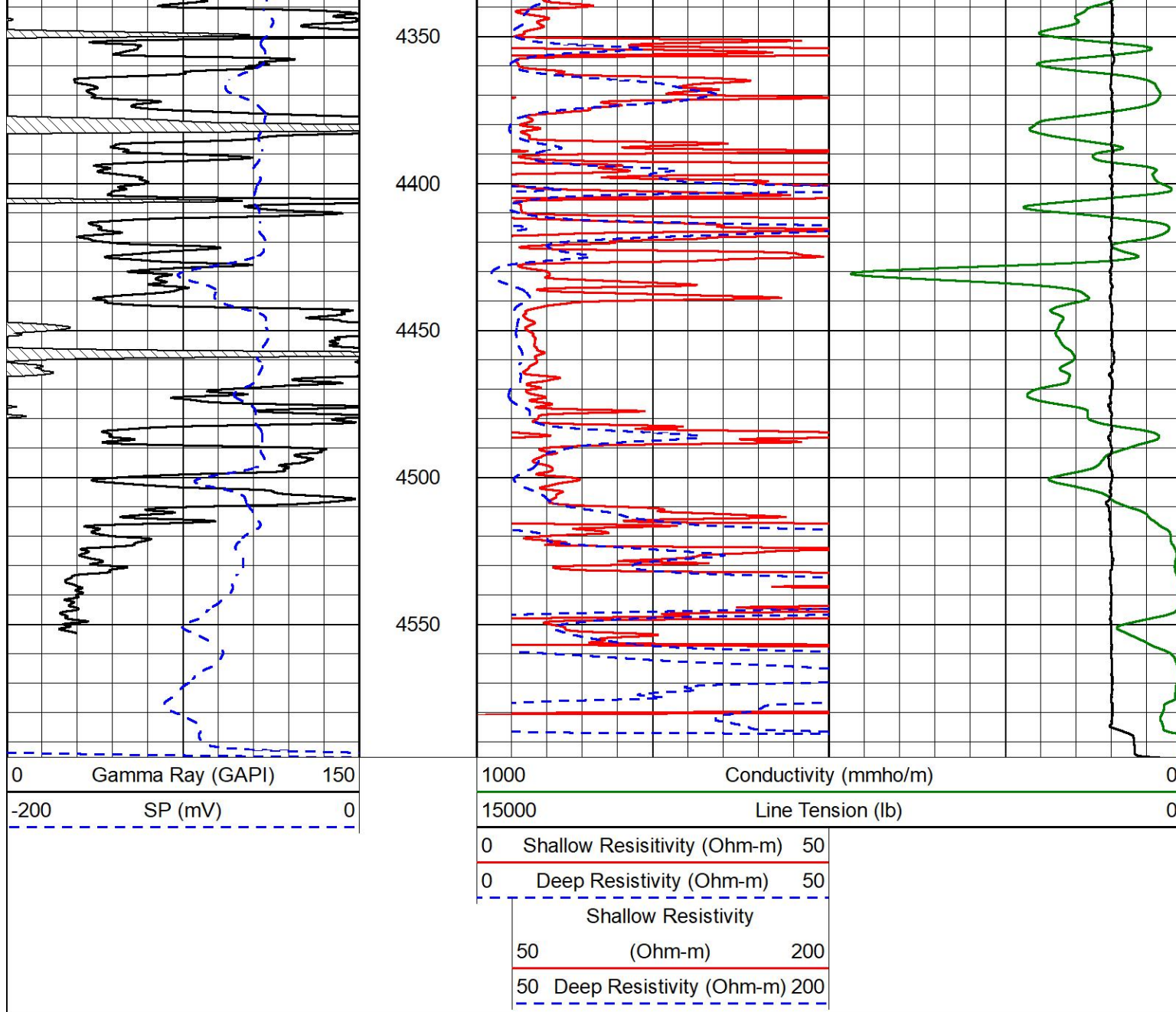
4150

4200

4250

4300



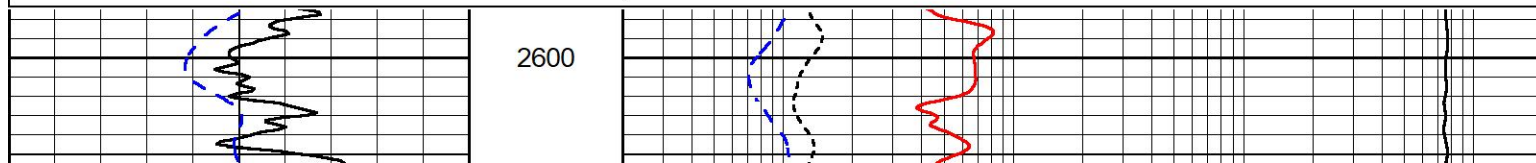


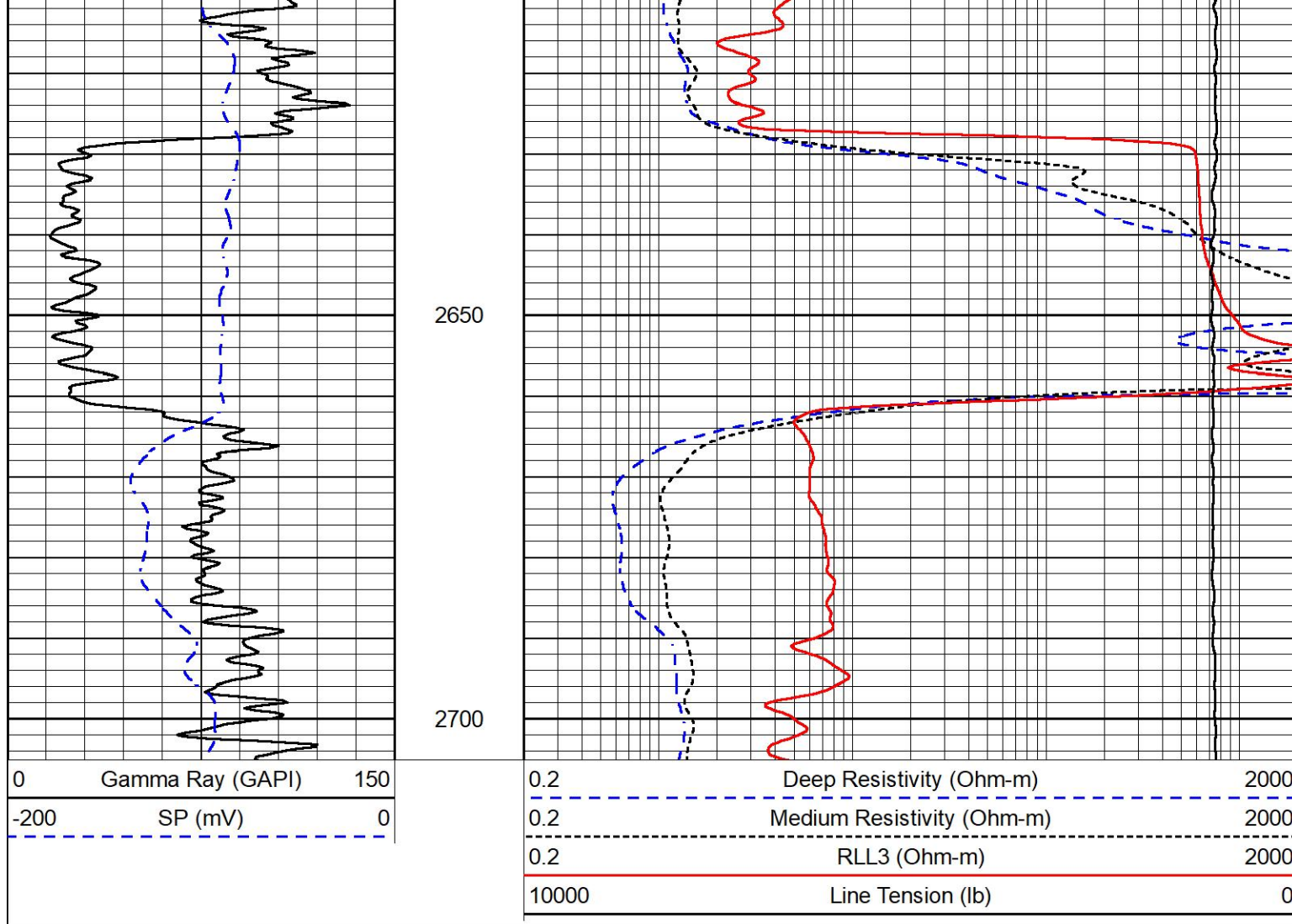
ANHYDRITE SECTION

MAIN PASS

Database File american_warrior_dible 1-28.db
 Dataset Pathname stkml/pass3.4
 Presentation Format _dil
 Dataset Creation Mon May 27 22:10:08 2024
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Medium Resistivity (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0

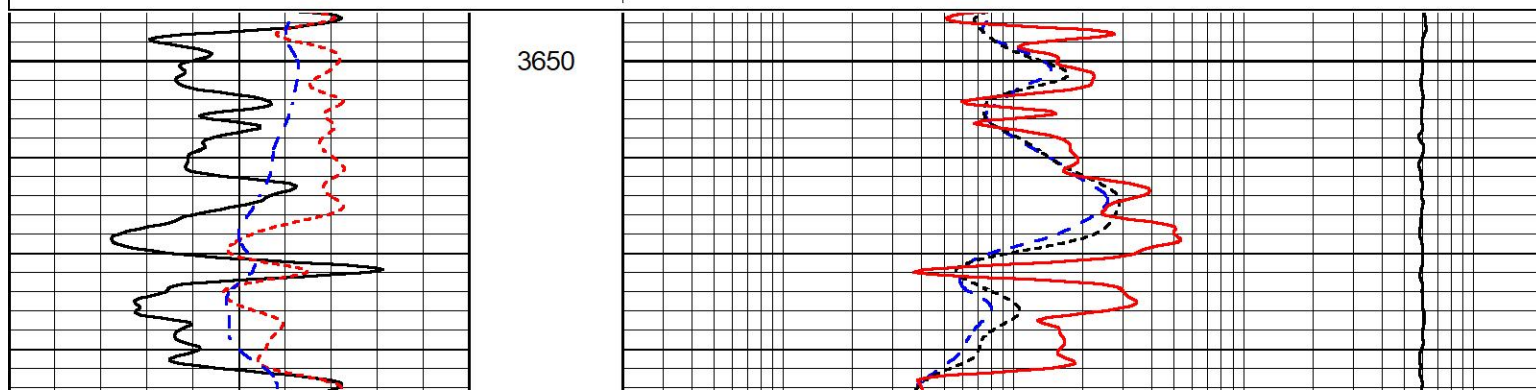
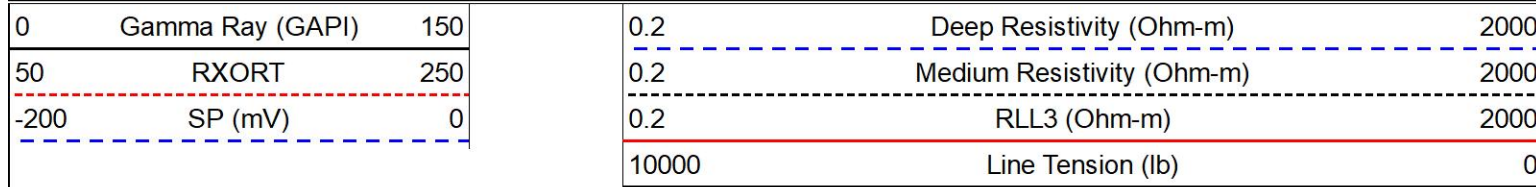


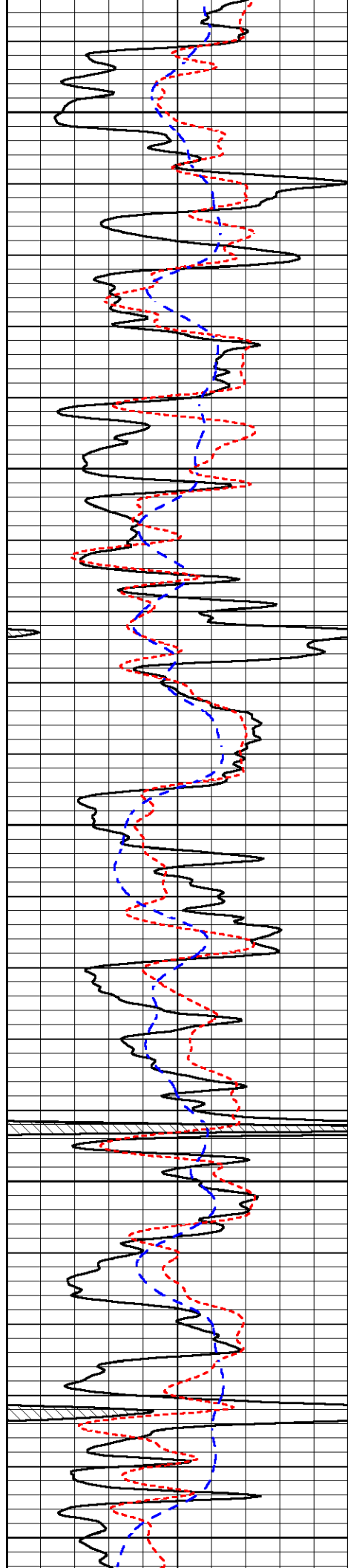


DETAIL SECTION

MAIN PASS

Database File american_warrior_dible 1-28.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _dil
 Dataset Creation Mon May 27 22:05:59 2024
 Charted by Depth in Feet scaled 1:240





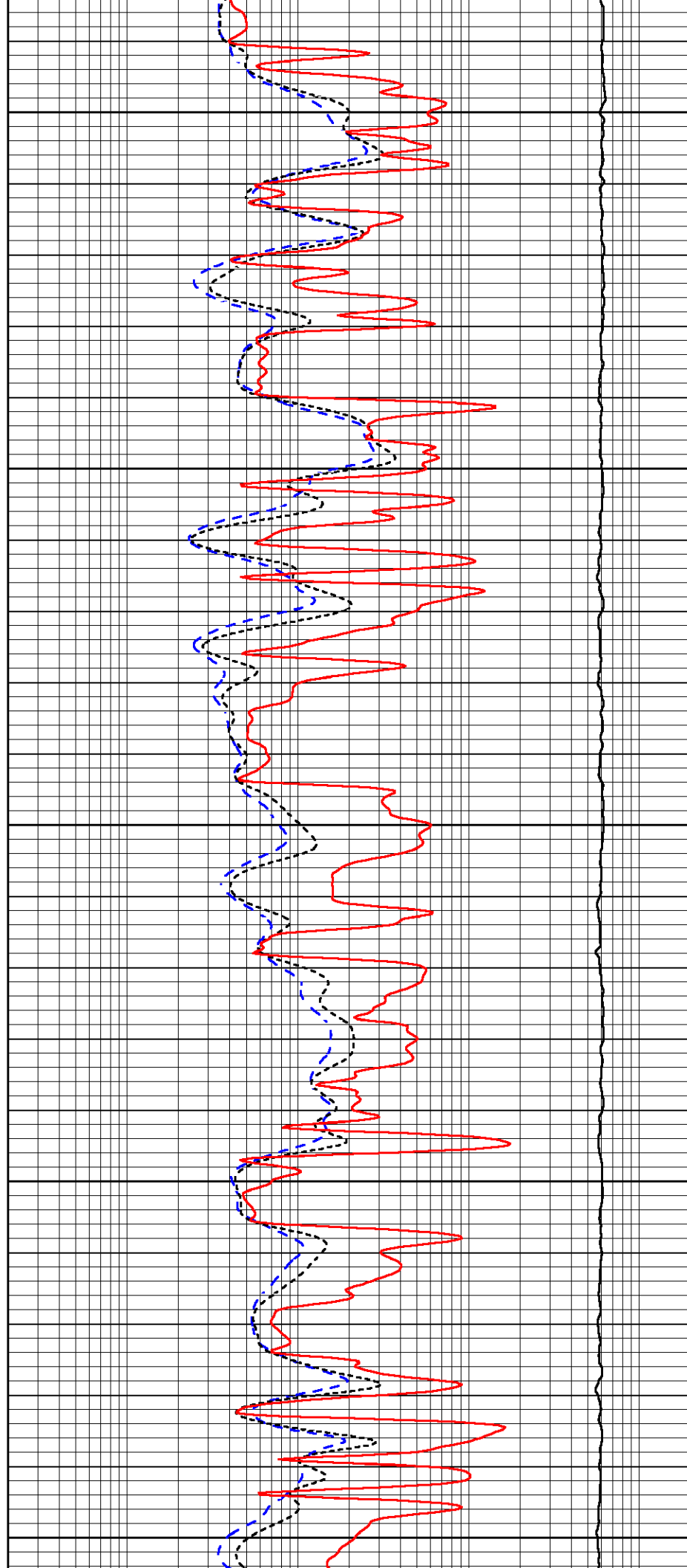
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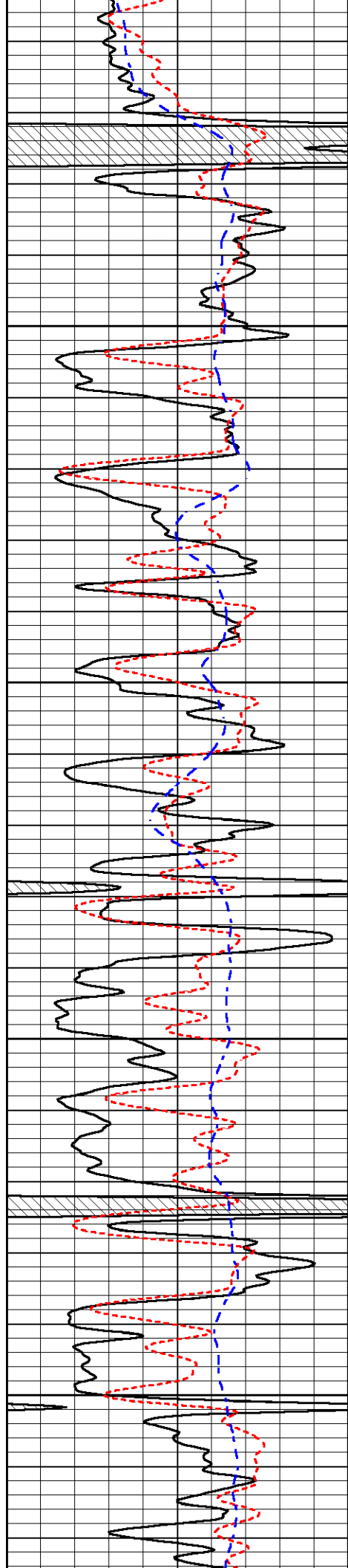
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3800

3850

3900



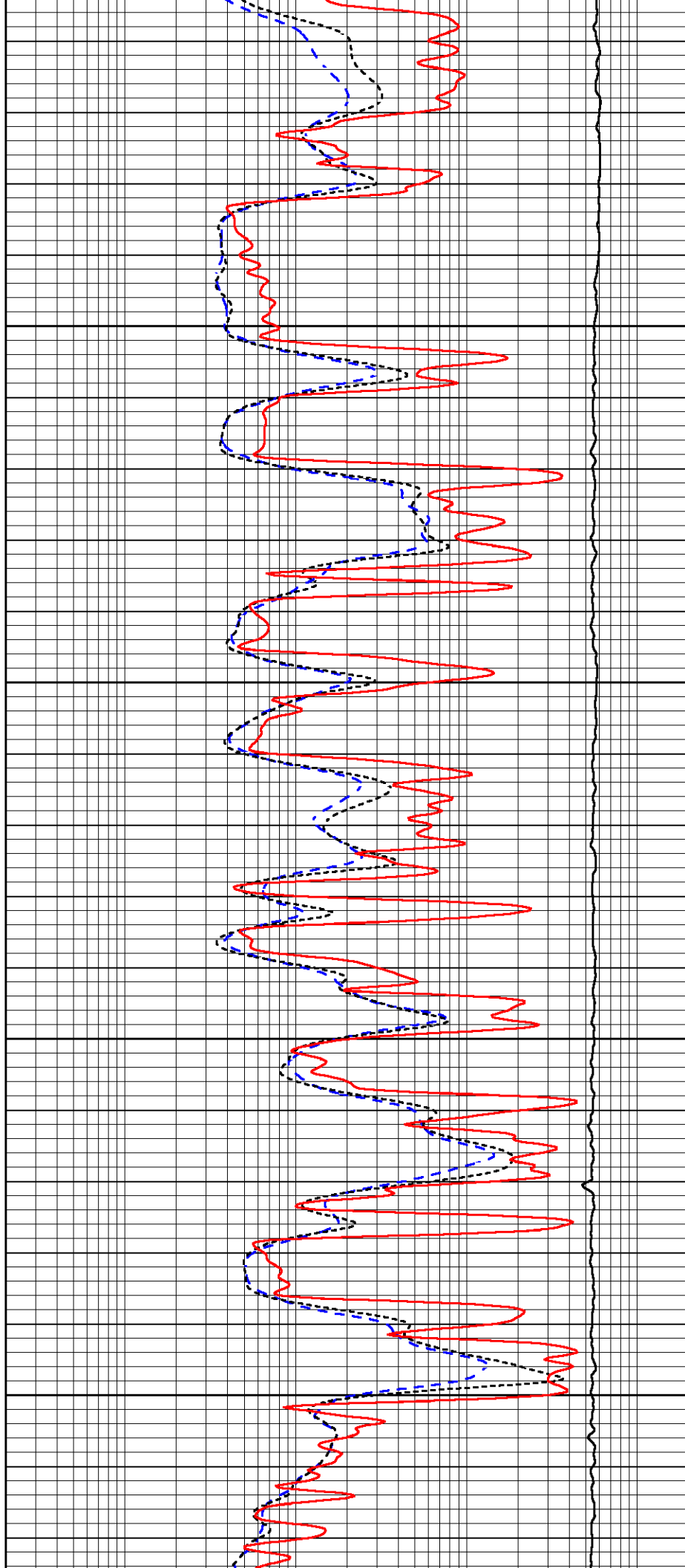


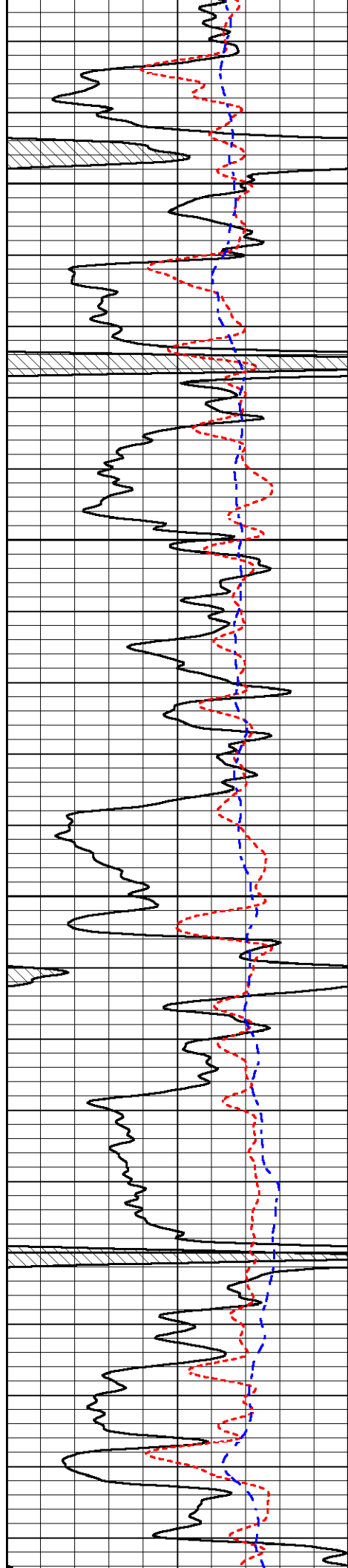
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4000

4050

4100



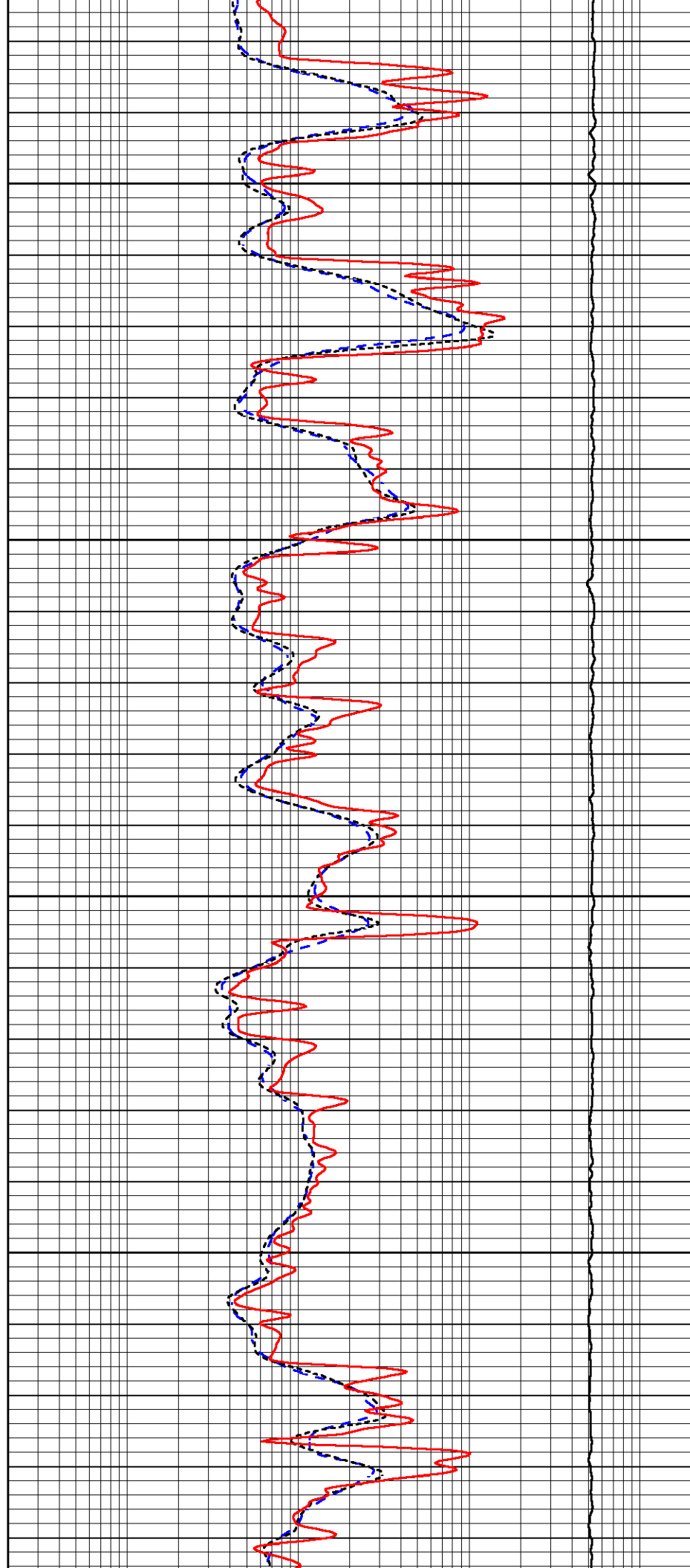


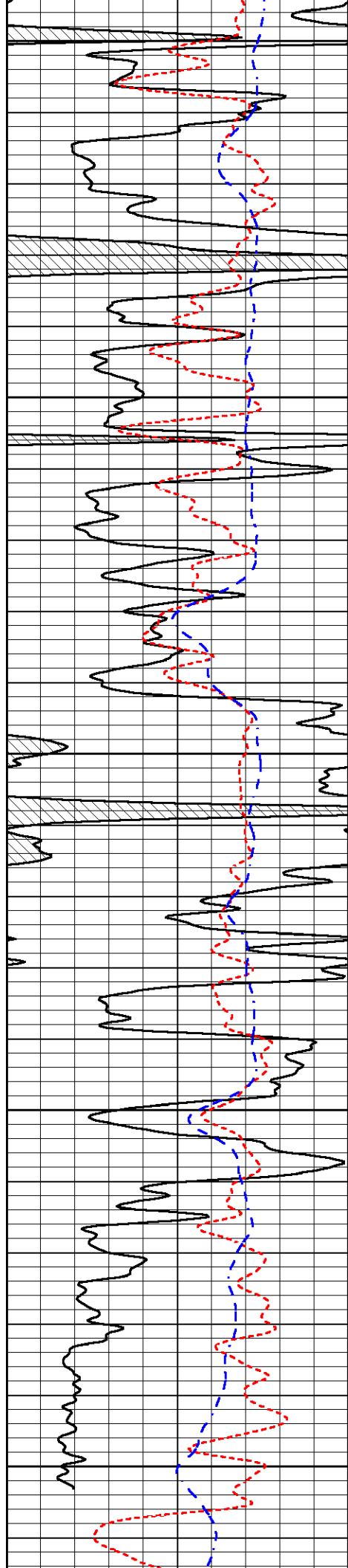
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4200

4250

4300





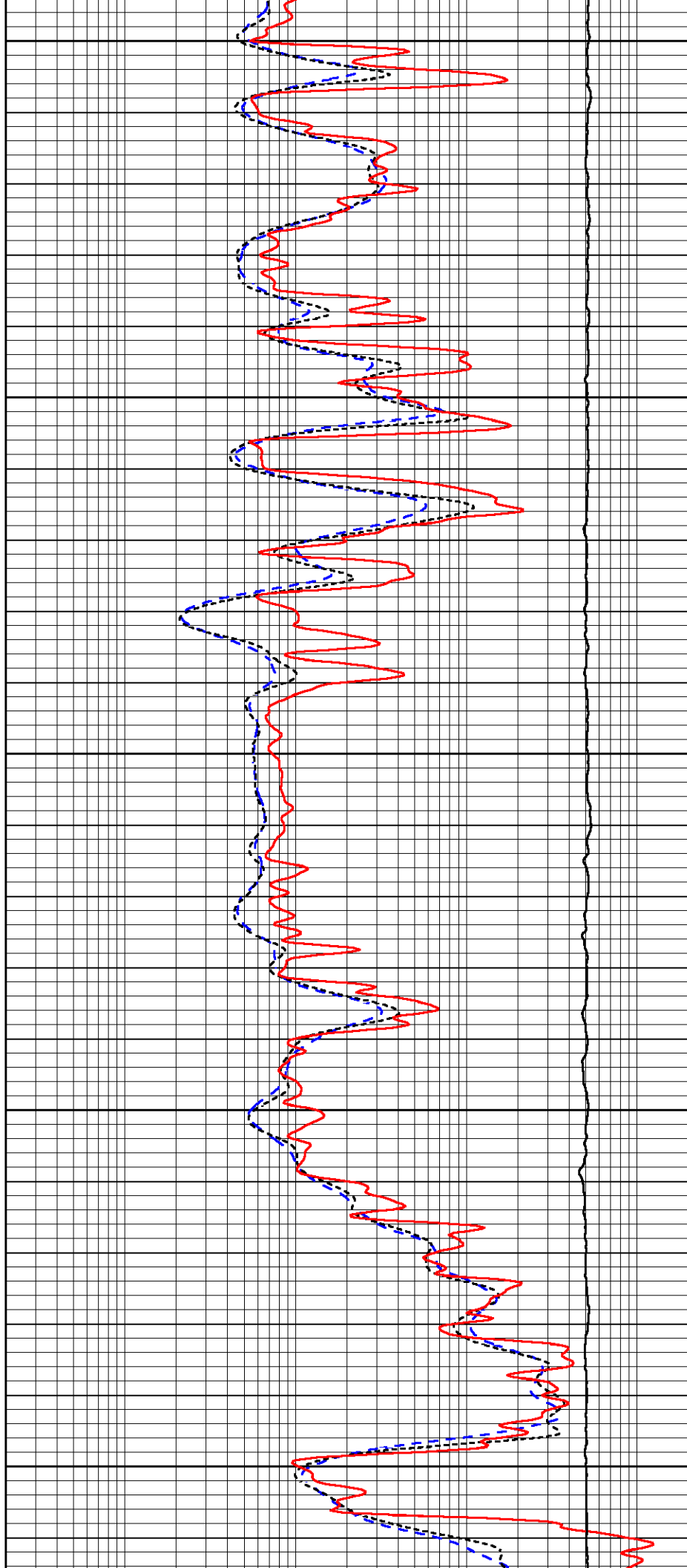
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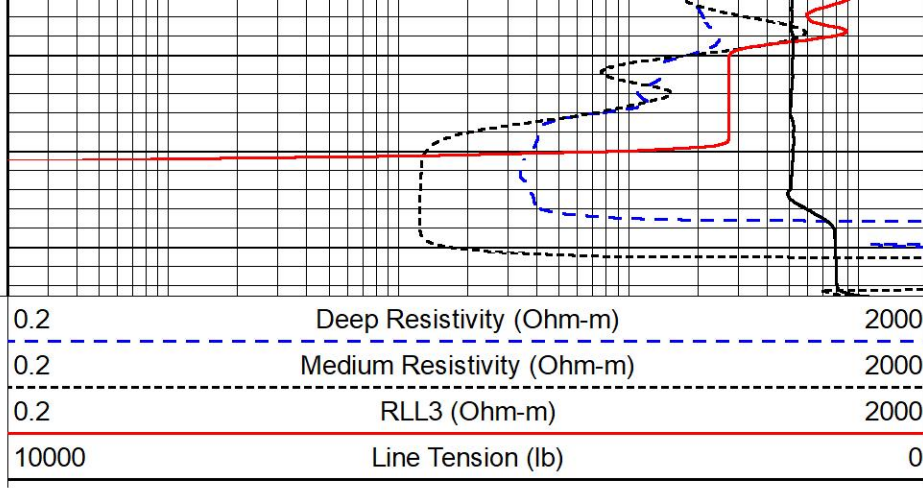
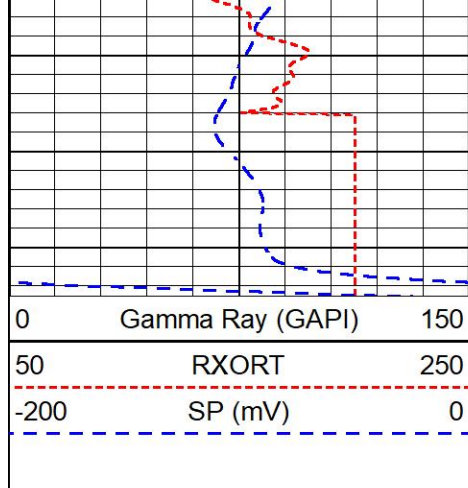
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4450

4500

4550

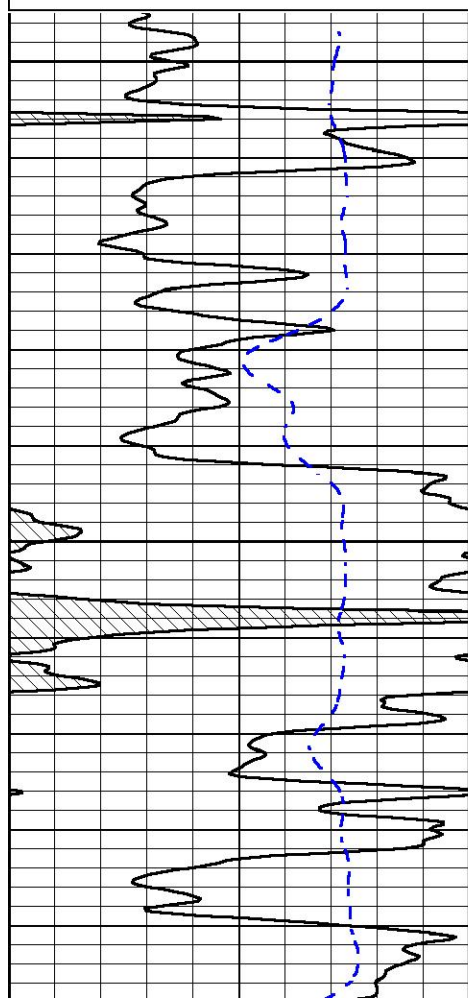
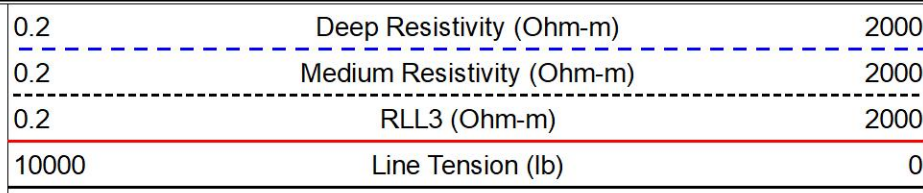
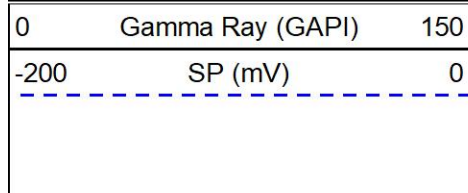




REPEAT SECTION

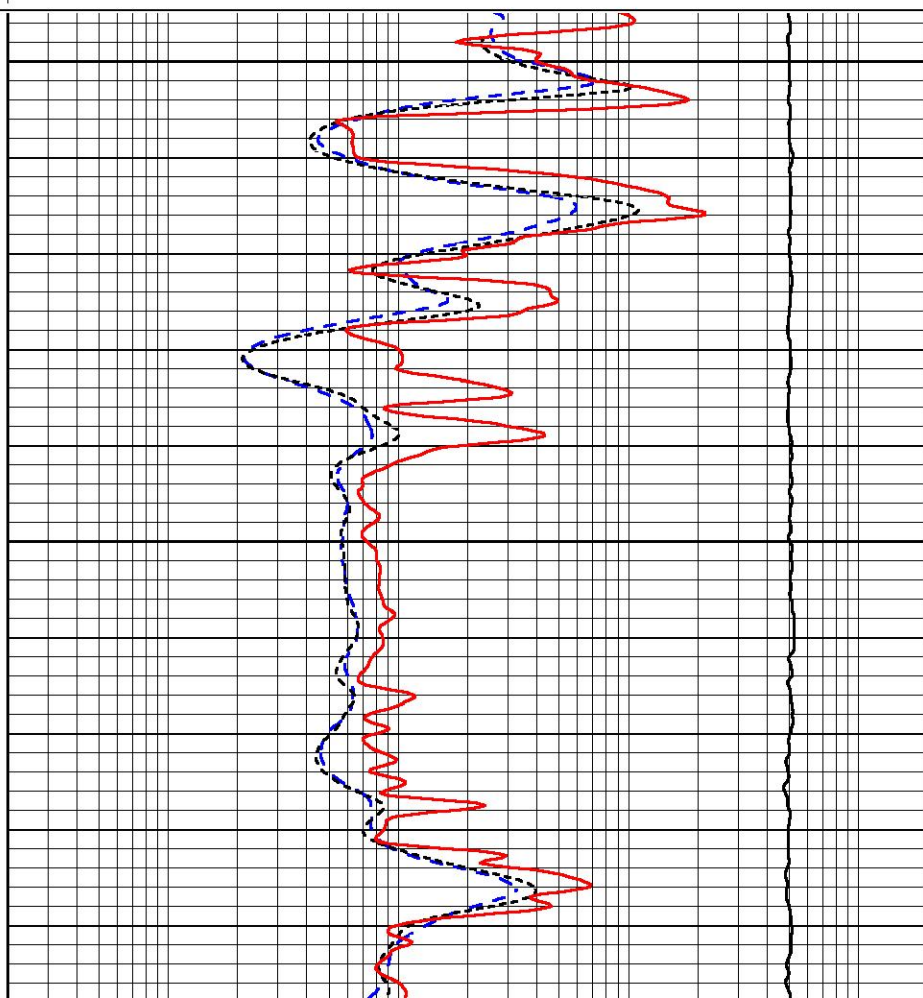
REPEAT PASS

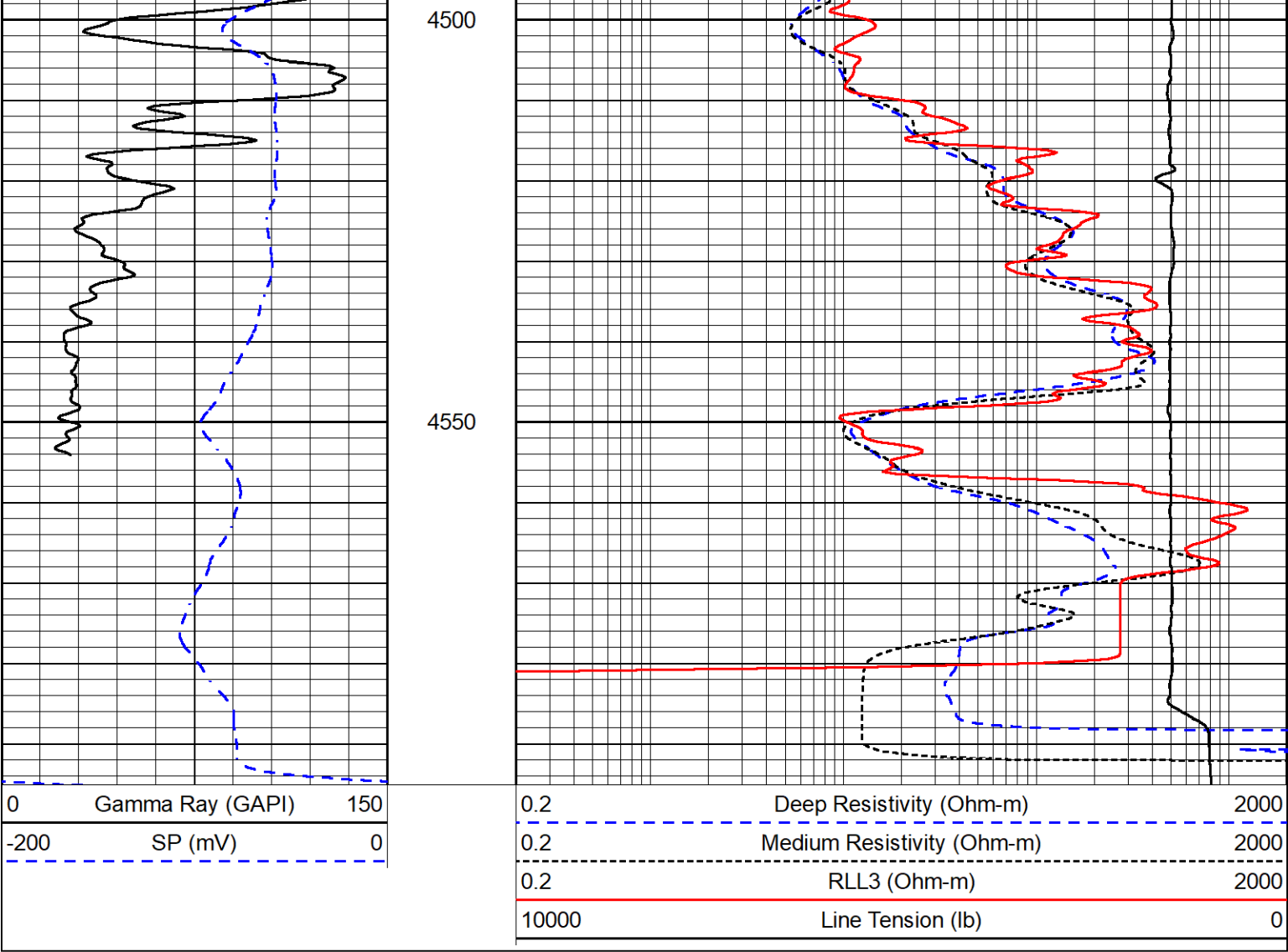
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 Dataset Pathname stkml/pass2.1
 Presentation Format _dil
 Dataset Creation Mon May 27 19:58:38 2024
 Charted by Depth in Feet scaled 1:240



4400

4450





Calibration Report							
Database File	american warrior_dible 1-28.db						
Dataset Pathname	stkml/pass3.1						
Dataset Creation	Mon May 27 22:05:59 2024						
Dual Induction Calibration Report							
Serial-Model:		504 HT-M&W					
Surface Cal Performed:		Mon May 27 19:30:10 2024					
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
	Deep	178.615 710.235	0.000	255.800	mmho/m	1.350	-12.000
	Medium	161.982 1441.110	0.000	255.800	mmho/m	0.950	-43.500
Microlog Calibration Report							
Serial-Model:		402-PSI STKBL ML					
Performed:		Tue Feb 27 01:52:43 2024					
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
	Normal	0.0037 0.0043	0.0000	10.0000	Ohm-m	15500.0000	-0.7000
	Inverse	0.1208 0.0013	0.0000	10.0000	Ohm-m	21500.0000	0.6000

Inverse	0.1208	0.0013	0.0000	10.0000	Onlin-H	21500.0000	-0.6000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6000

Compensated Density Calibration Report							
Serial-Model:				303-03-M&W			
Source #:				21170B			
Master Calibration Performed:				Fri Mar 22 13:26:25 2024			

Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.680	g/cc	5466.68		7555.42	cps
Aluminum		2.580	g/cc	1173.67		5050.86	cps
Spine Angle = 75.33				Density/Spine Ratio = 0.566			
		Size		Reading			
Small Ring		4.00	in	1.17			
Large Ring		14.00	in	1.07			

Compensated Neutron Calibration Report						
Serial Number:			210			
Tool Model:			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

Gamma Ray Calibration Report							
Serial Number:		105					
Tool Model:		M&W					
Performed:		Sat Oct 21 23:48:19 2023					
Calibrator Value:		500.0	GAPI				
Background Reading:		24.0	cps				
Calibrator Reading:		637.0	cps				
Sensitivity:		0.6000	GAPI/cps				

		Company	American Warrior, Inc.
		Well	Dible #1-28
		Field	
		County	Thomas
		State	Kansas