



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Carmen Schmitt, Inc.

Well Audrey #1

Field

County Sheridan State Kansas

Location: API #: 15-179-21484-00-00

1250 FSL & 2050 FWL

SEC 30 TWP 8S RGE 30W

Permanent Datum Ground Level Elevation 2946
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL
Elevation
K.B. 2951
D.F.
G.L. 2946

Date 5/21/2022

Run Number One

Depth Driller 4635

Depth Logger 4633

Bottom Logged Interval 4632

Top Log Interval 250

Casing Driller 8.625 @ 265

Casing Logger 265

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3300

Density / Viscosity 9.3 49

pH / Fluid Loss 11.5 6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.55 @ 65

Rmt @ Meas. Temp 0.41 @ 65

Rmc @ Meas. Temp 0.74 @ 65

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.29 @ 122

Operating Rig Time 3 Hours

Max Rec. Temp. F 122

Equipment Number P-24

Location Hays

Recorded By D. Schmidt

Witnessed By Brad Rine

<<< Fold Here >>>

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.

Menlo,
1 1/2 South, East into

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: Brad Rine
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\carmen schmitt_audrey 1.db
Dataset field/well/stkml/pass3.19/_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	-70	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	85	40		4633

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

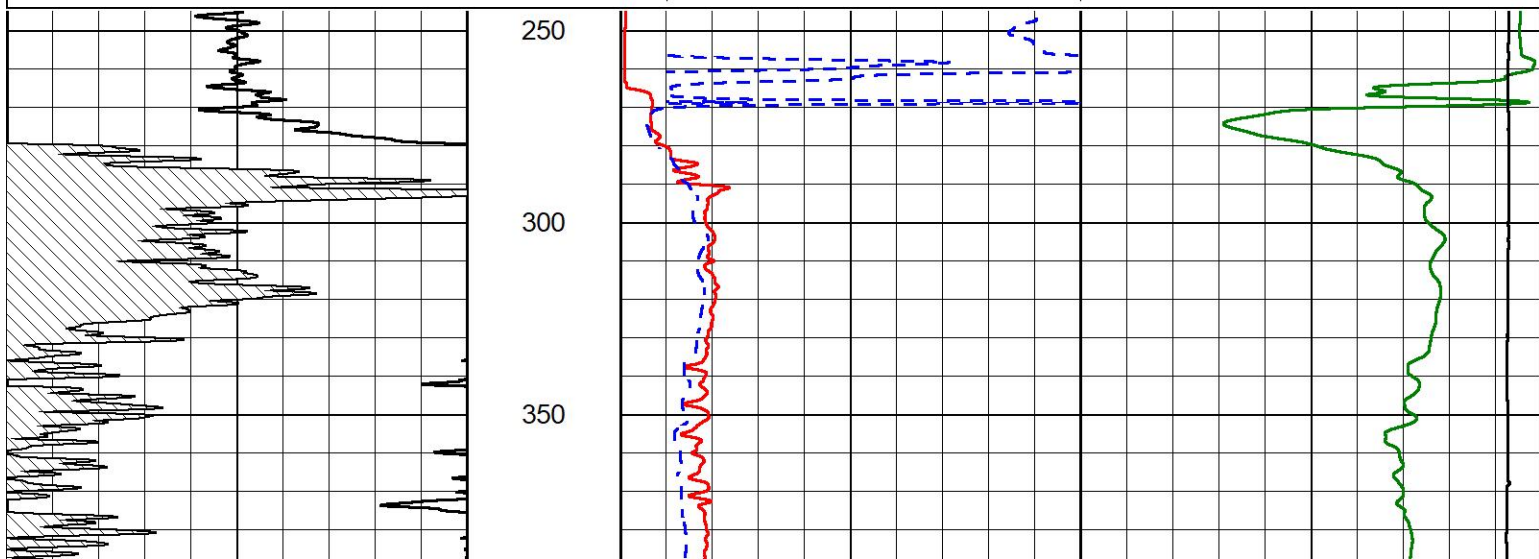


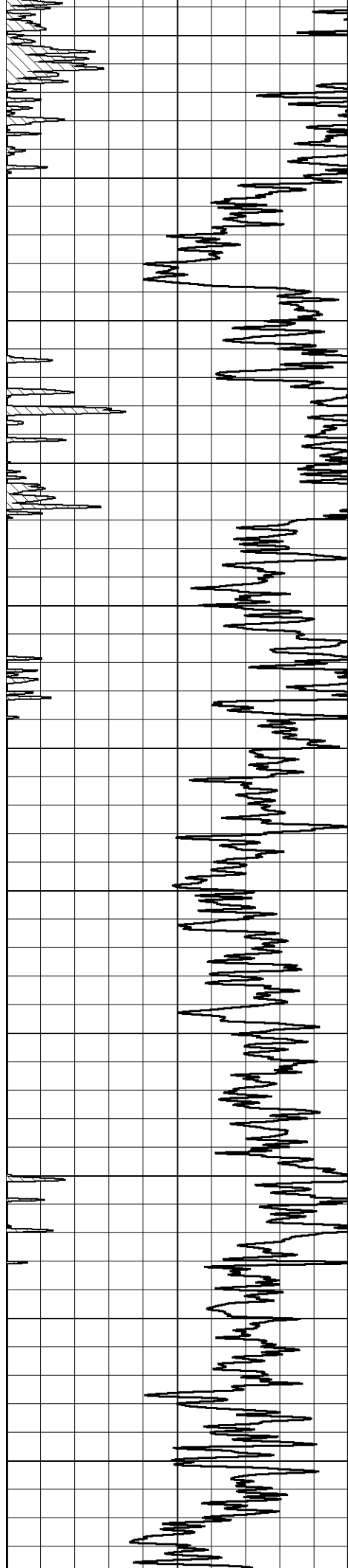
2" SCALE RESISTIVITY

MAIN PASS

Database File carmen schmitt_audrey 1.db
Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Sat May 21 06:46:04 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





400

450

500

550

600

650

700

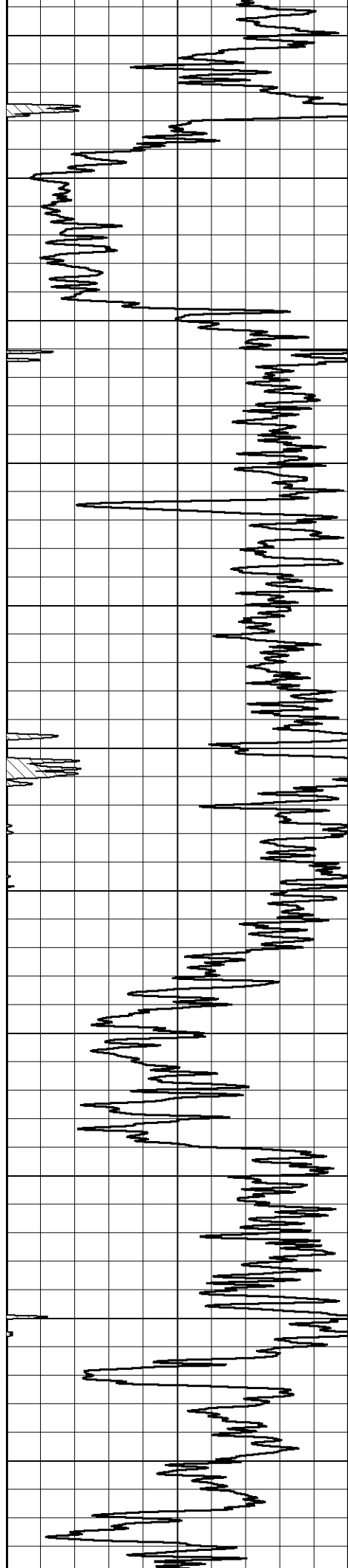
750

800

850

900





950

1000

1050

1100

1150

1200

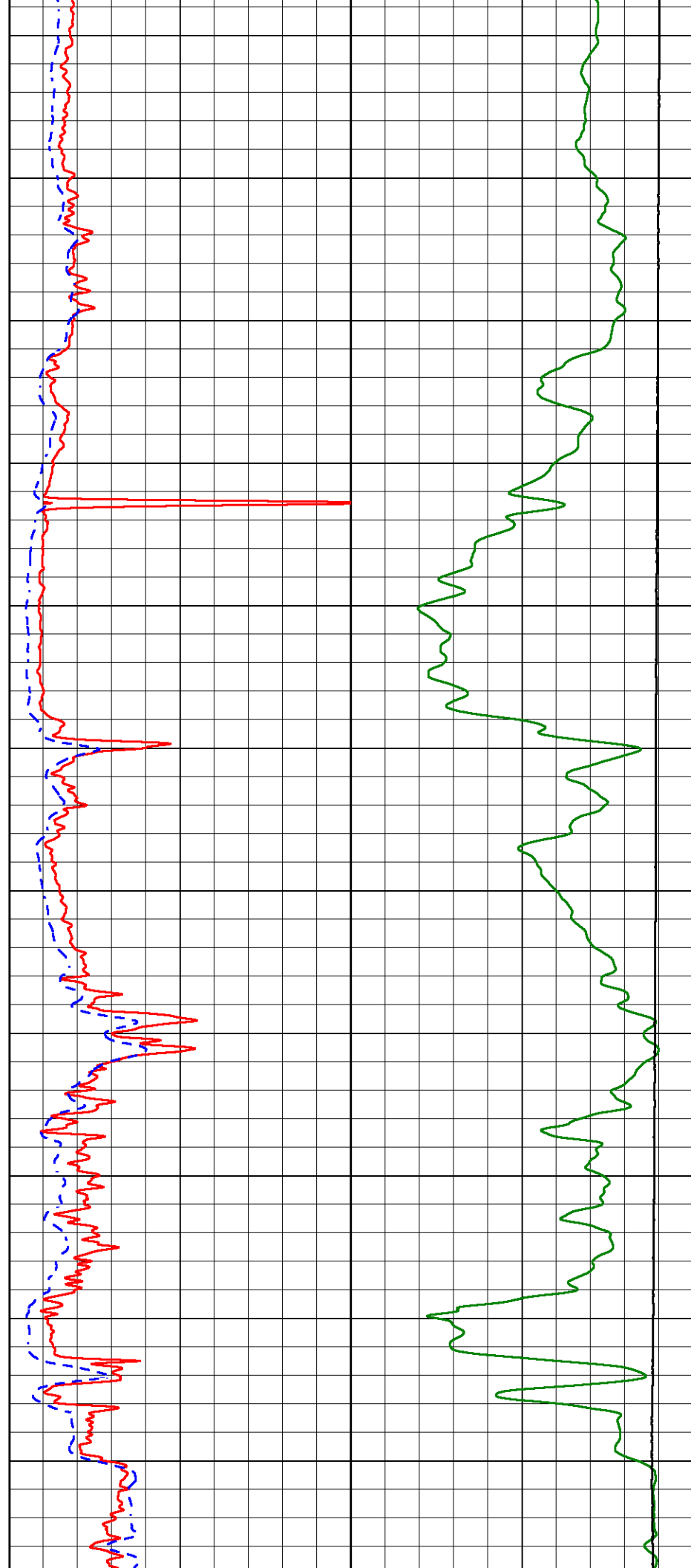
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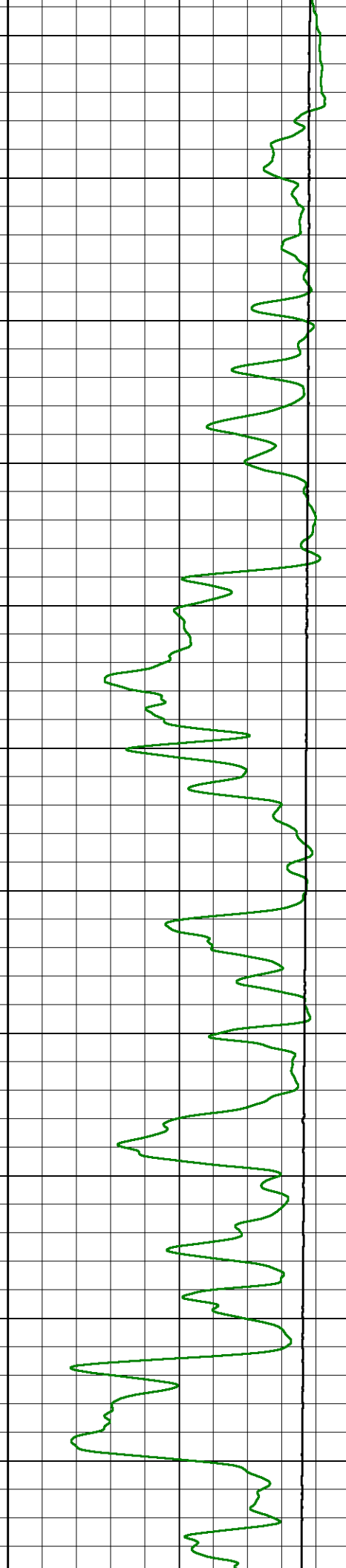
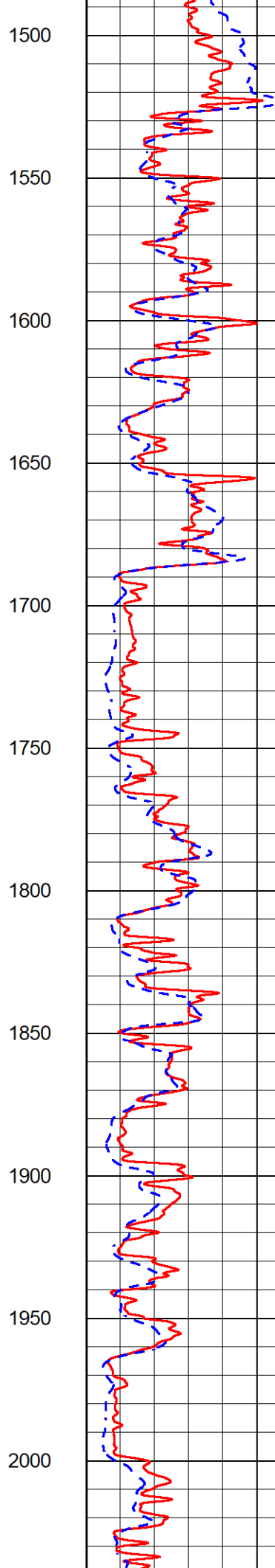
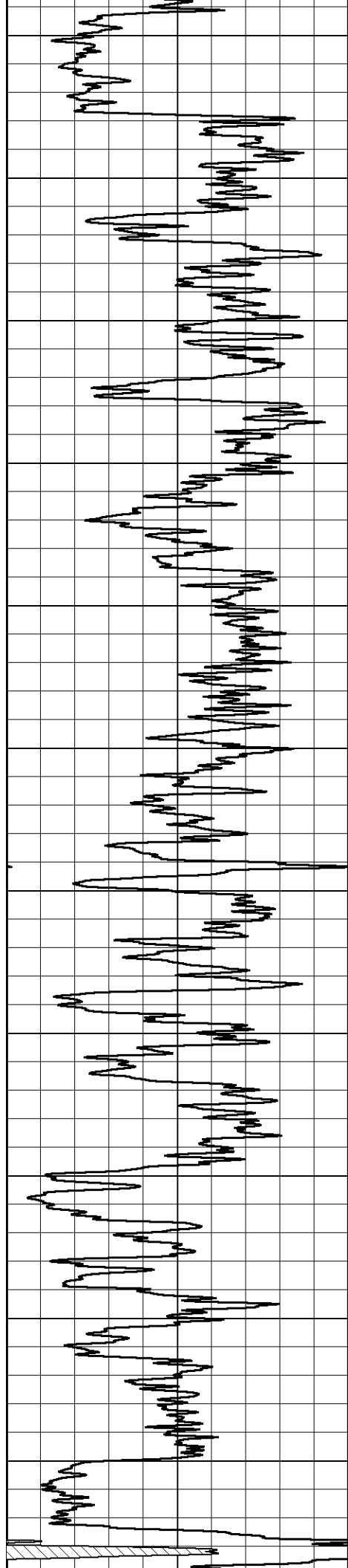
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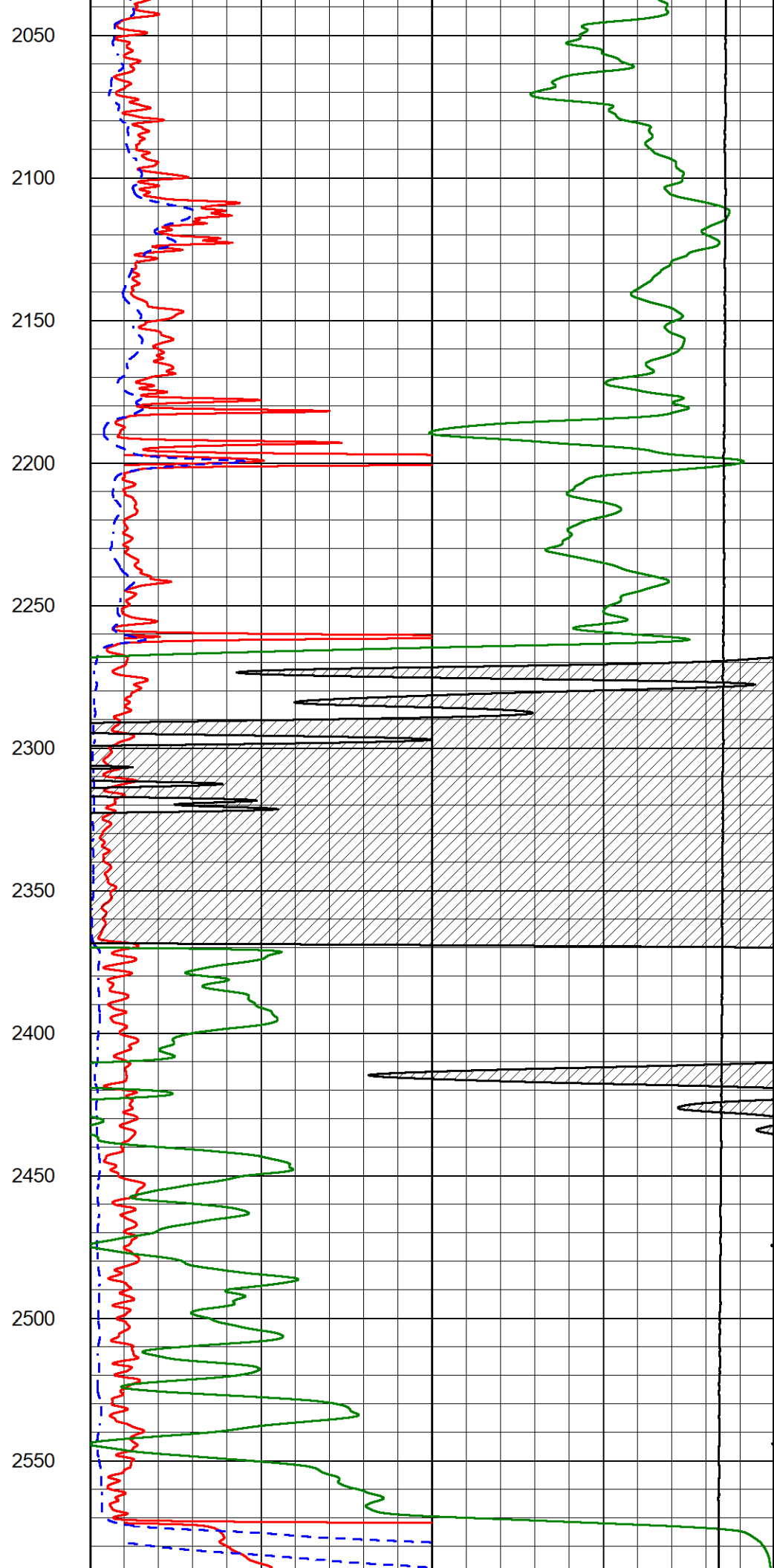
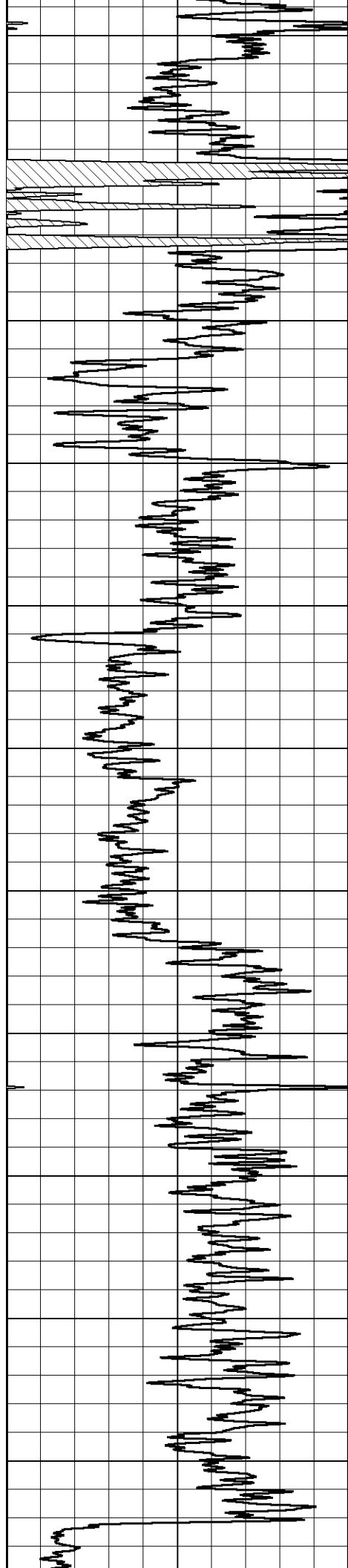
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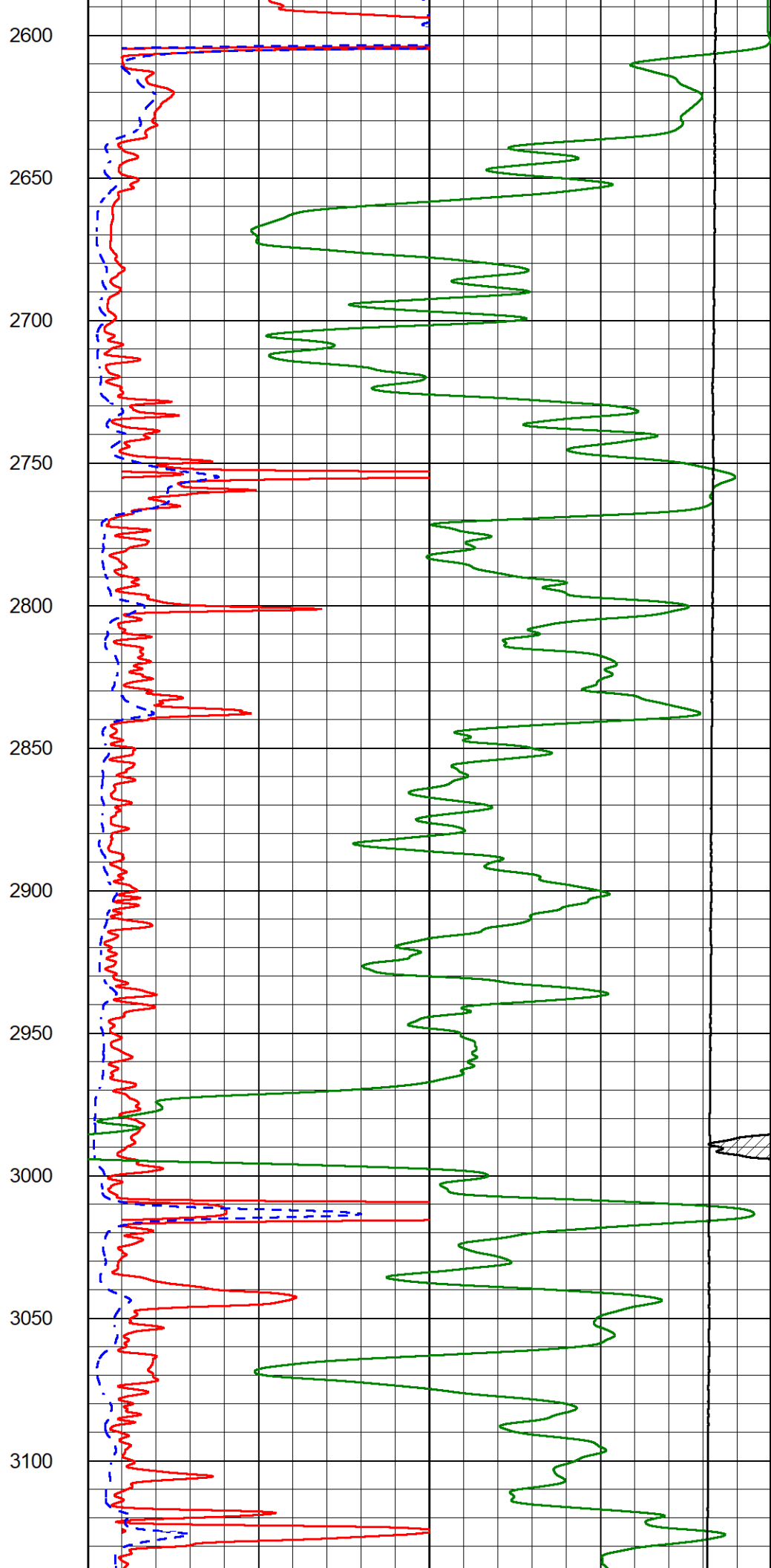
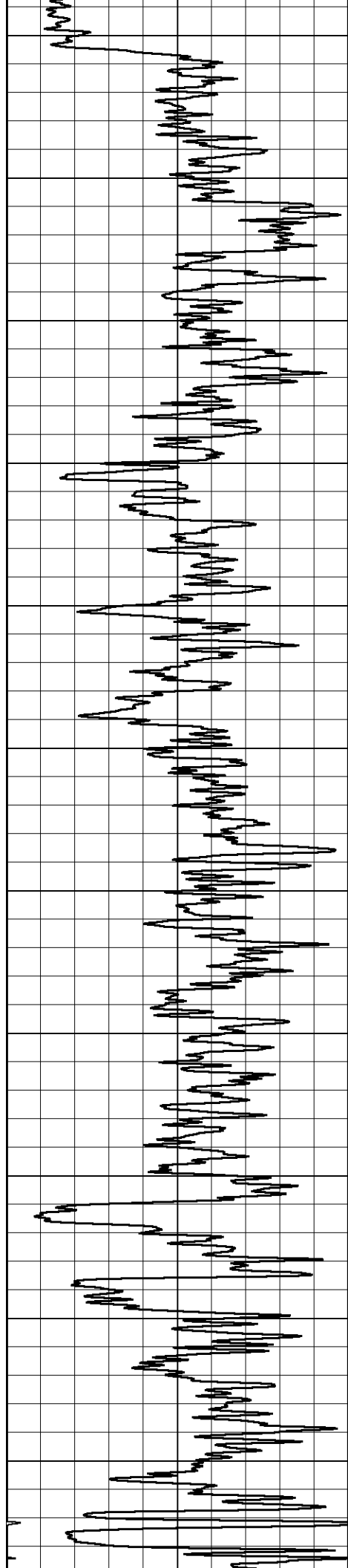
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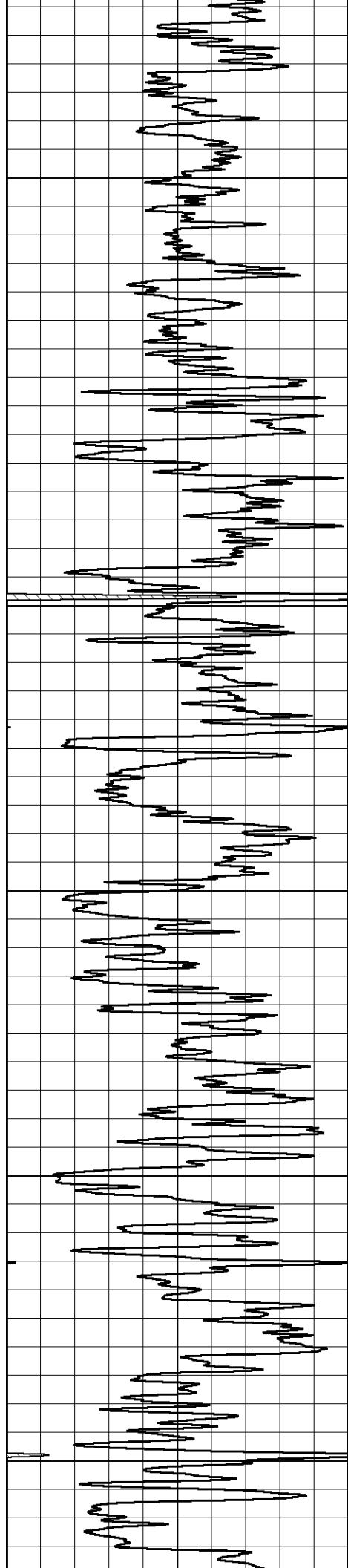
1450











3150

3200

3250

3300

3350

3400

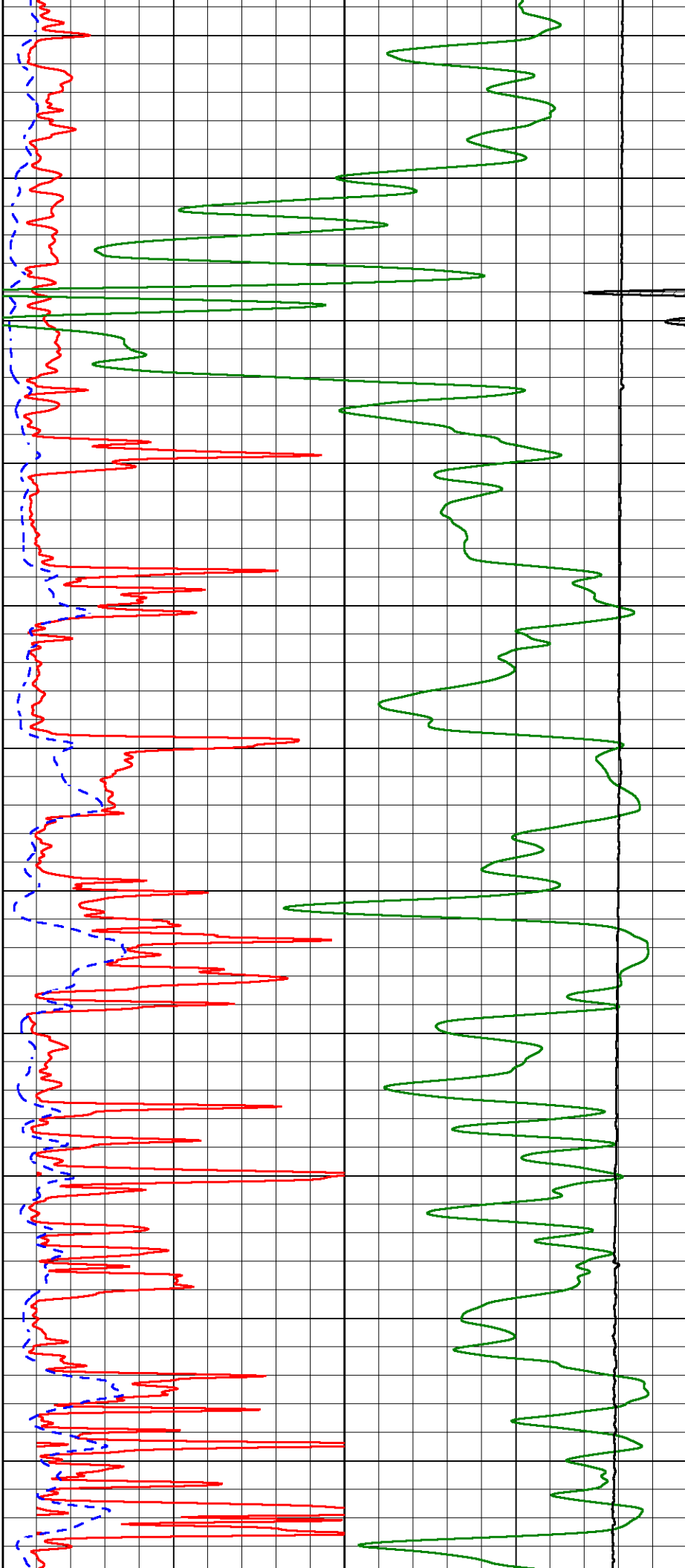
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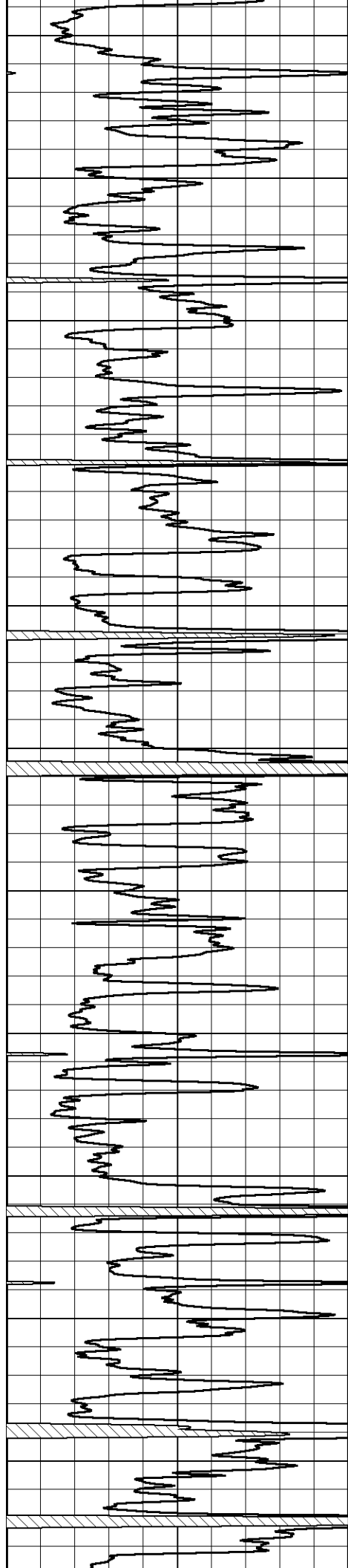
3500

3550

3600

3650





3700

3750

3800

3850

3900

3950

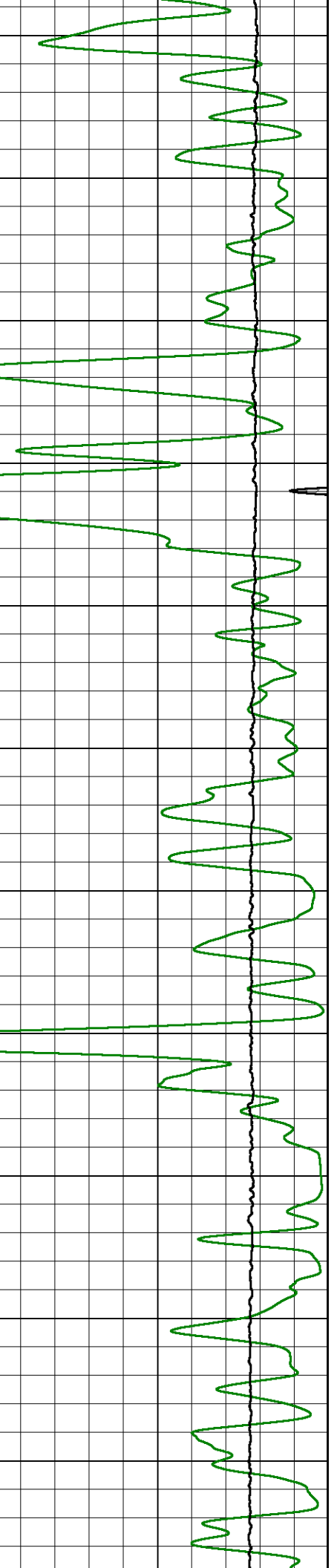
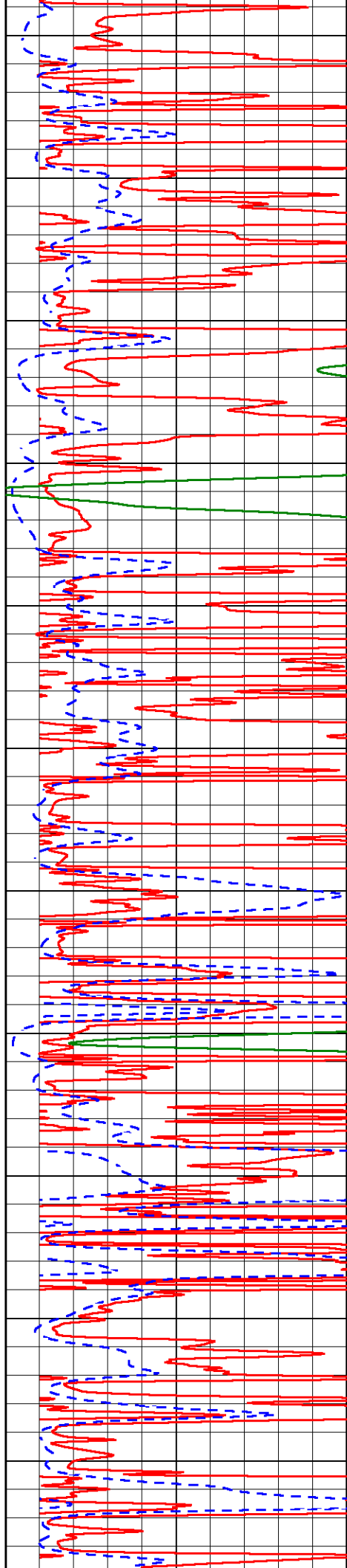
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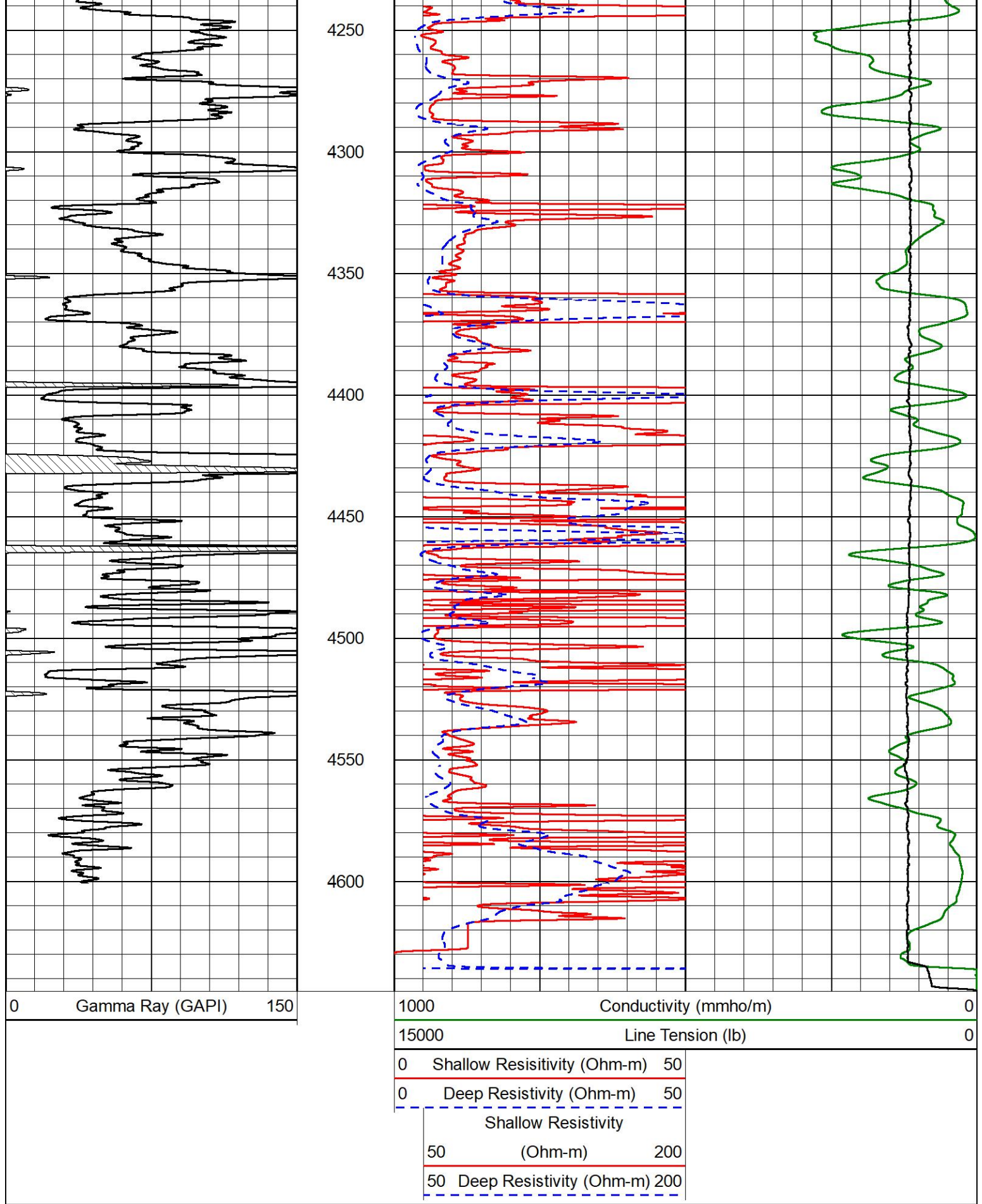
4050

4100

4150

4200





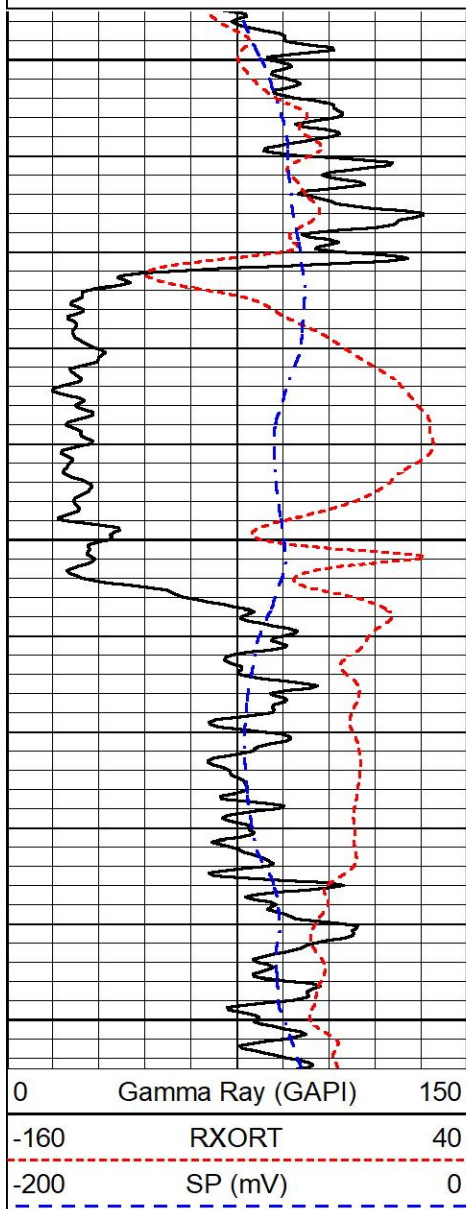
ANHYDRITE SECTION

MAIN PASS

Database File carmen schmitt_audrey 1.db
 Dataset Pathname stkml/pass3.4
 Presentation Format _dil
 Dataset Creation Sat May 21 06:46:16 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

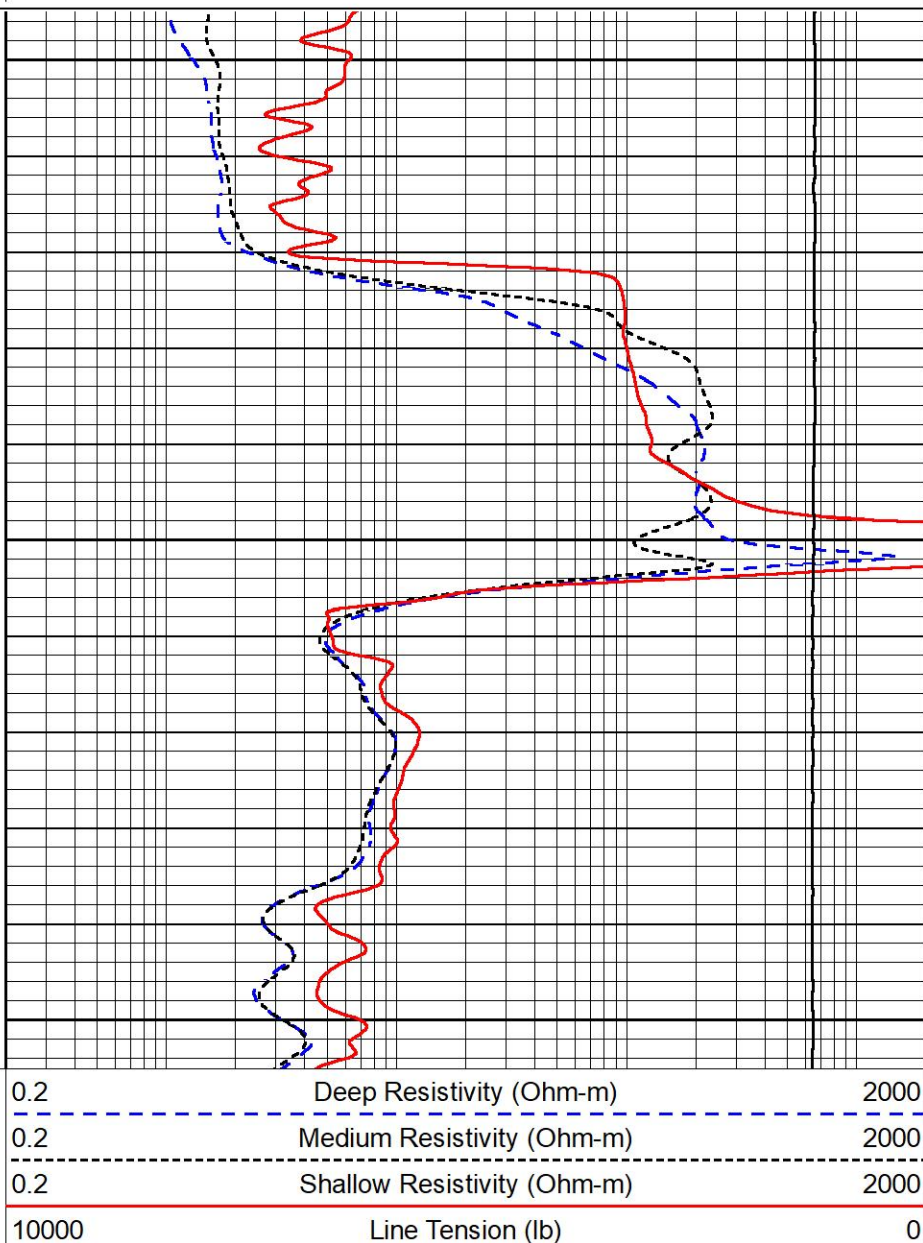


2550

2600

2650

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



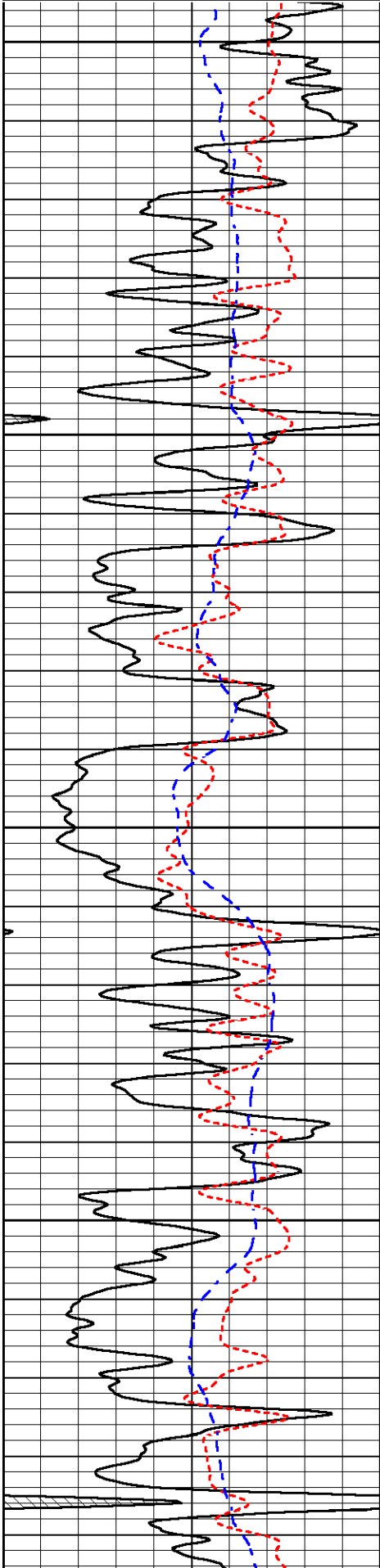
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File carmen schmitt_audrey 1.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _dil
 Dataset Creation Sat May 21 06:41:02 2022
 Charted by Depth in Feet scaled 1:240

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



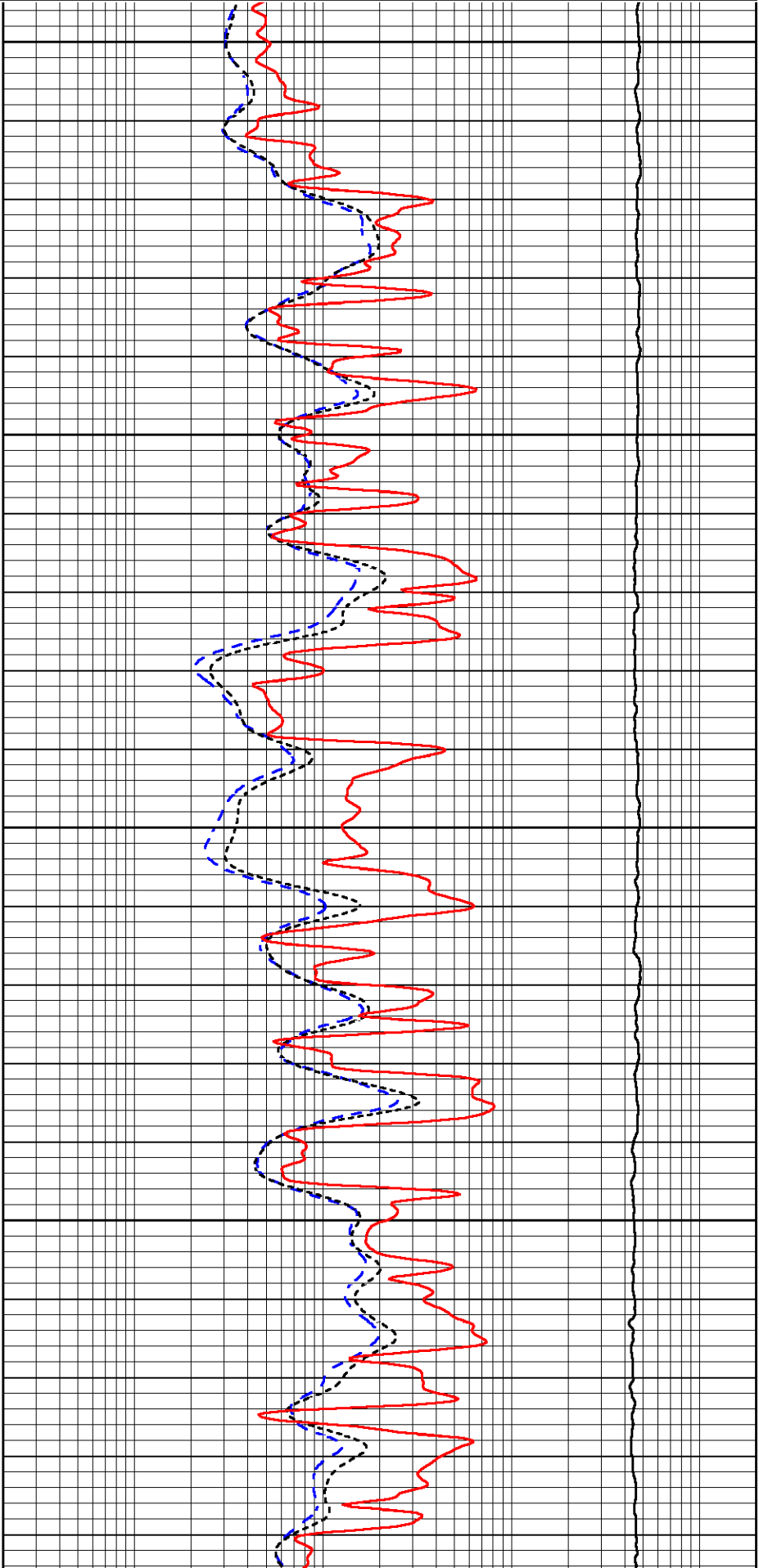
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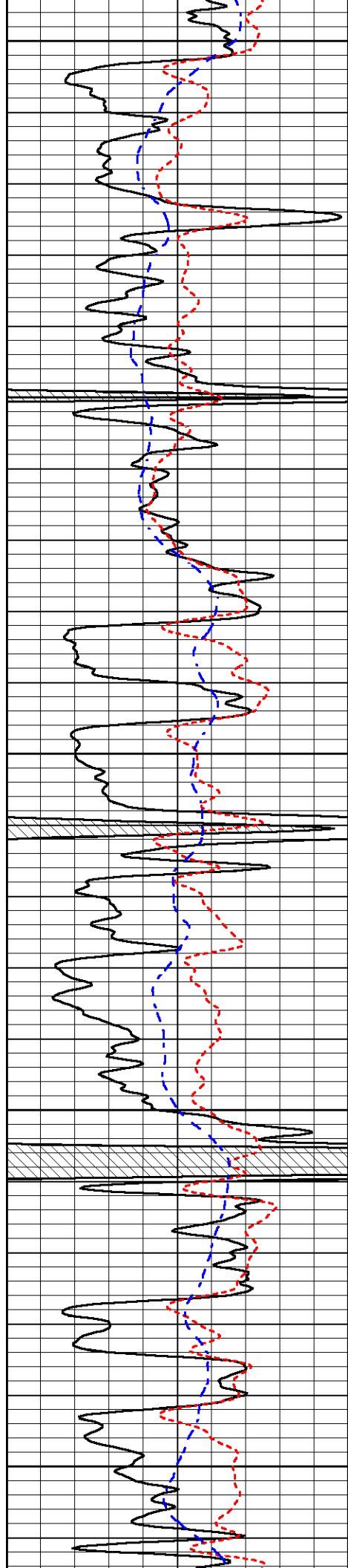
3650

3700

3750

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





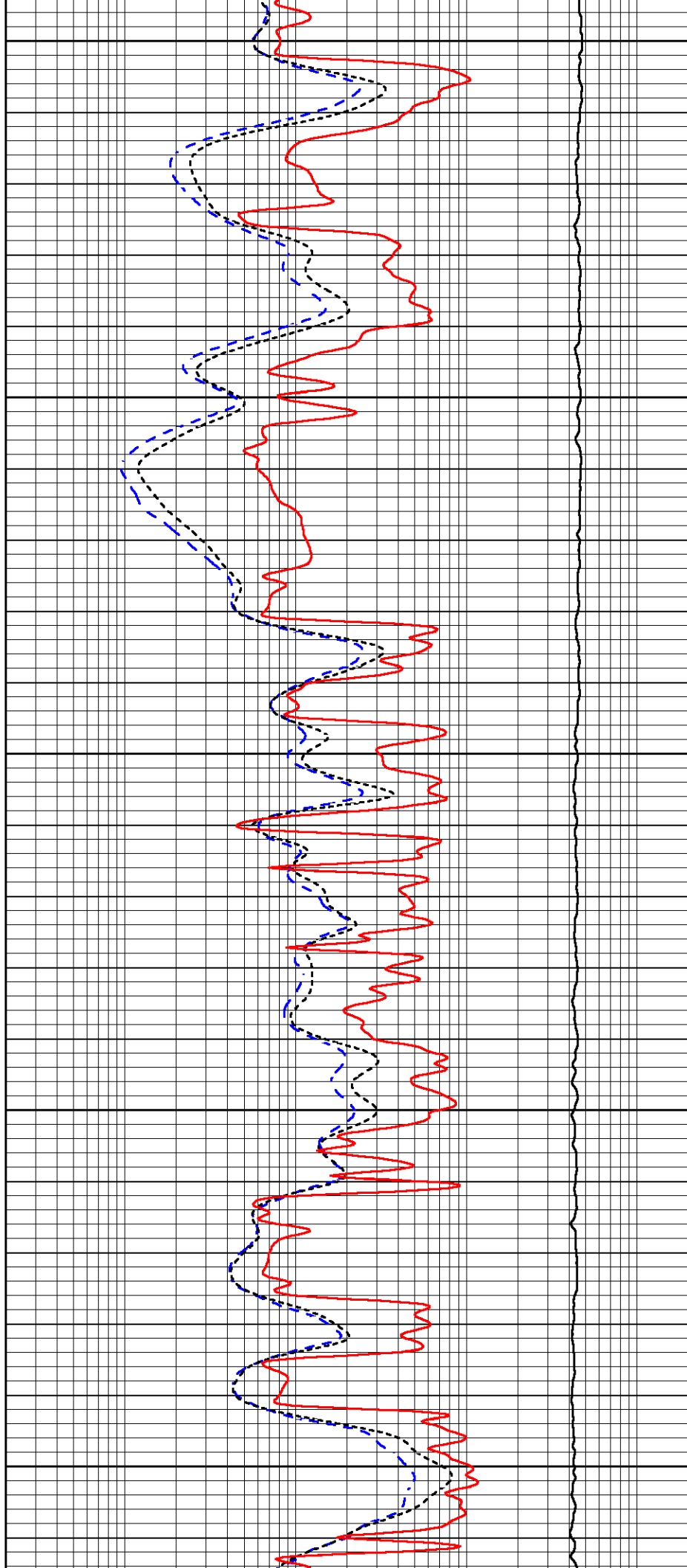
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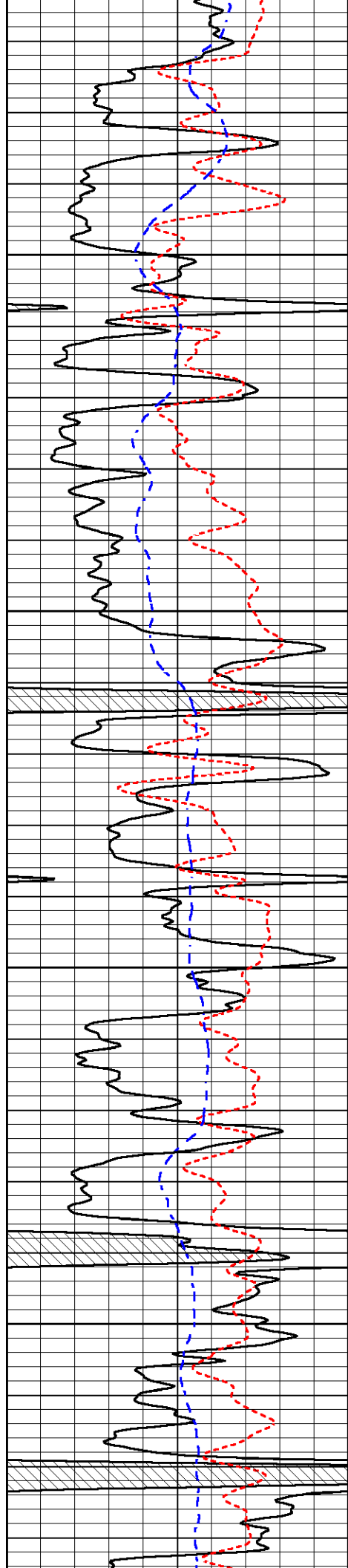
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3900

3950

4000



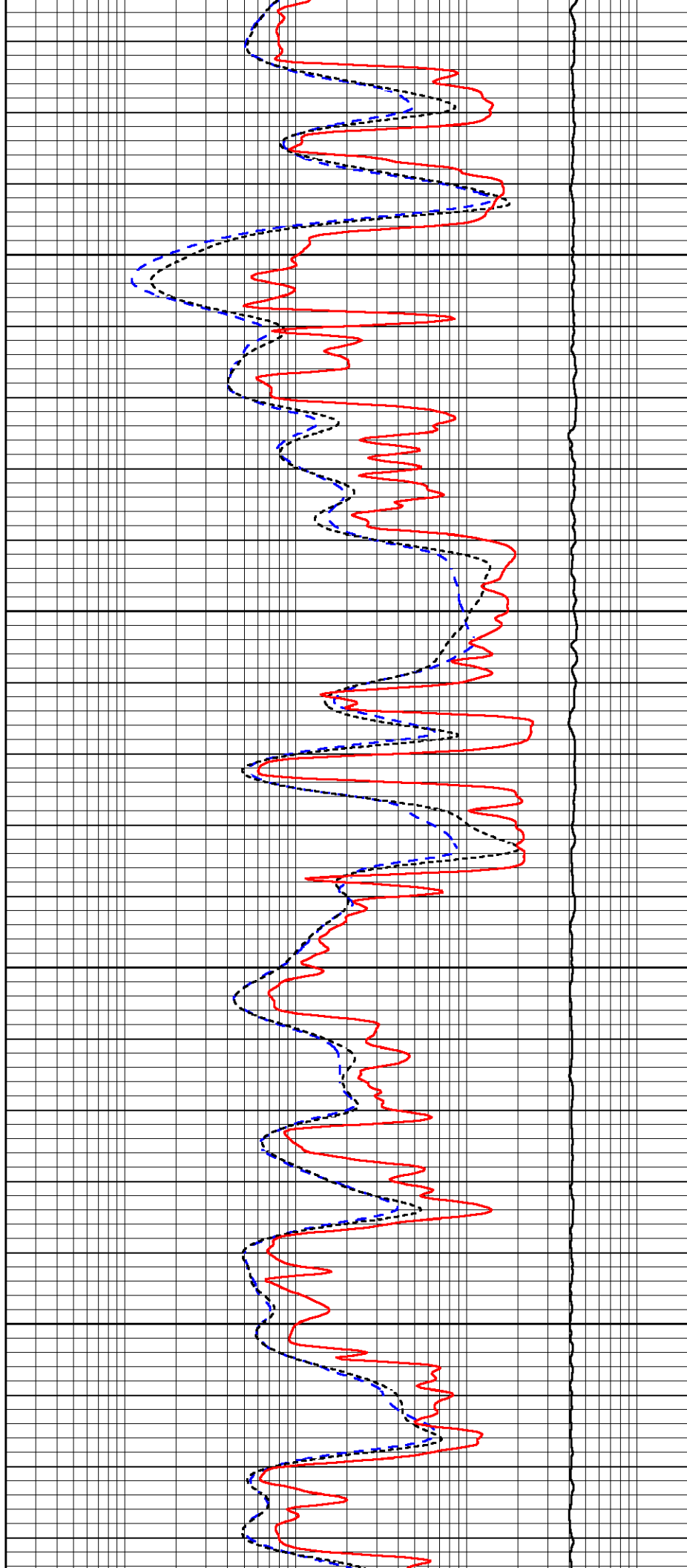


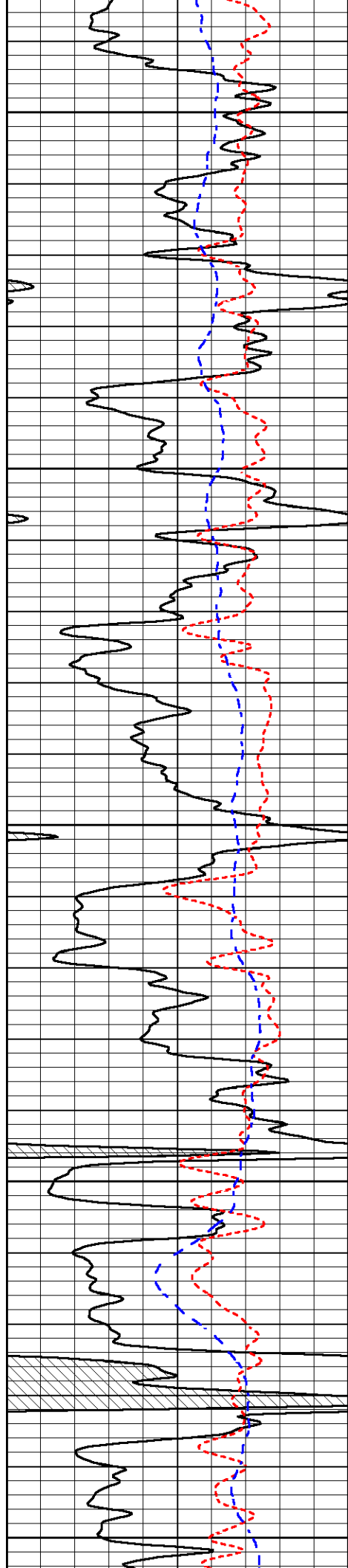
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4100

4150

4200





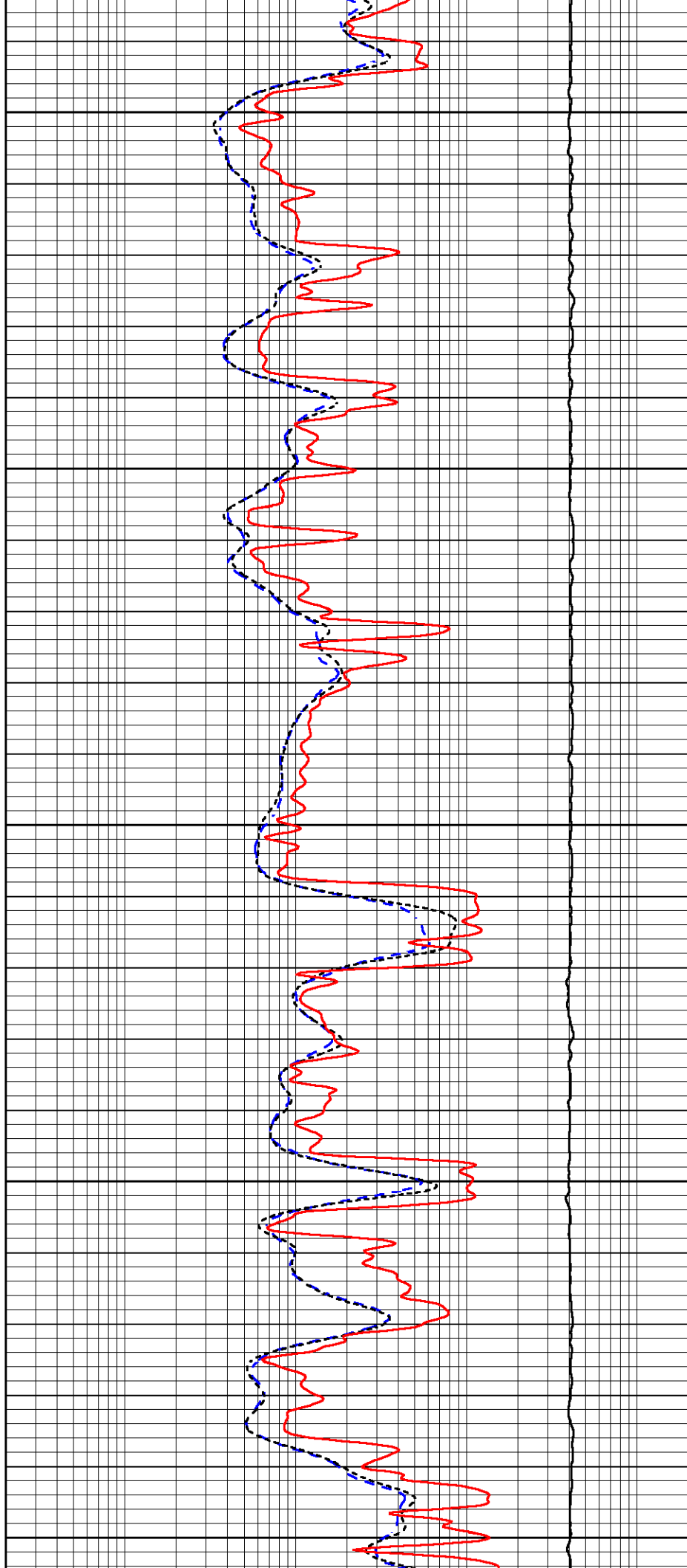
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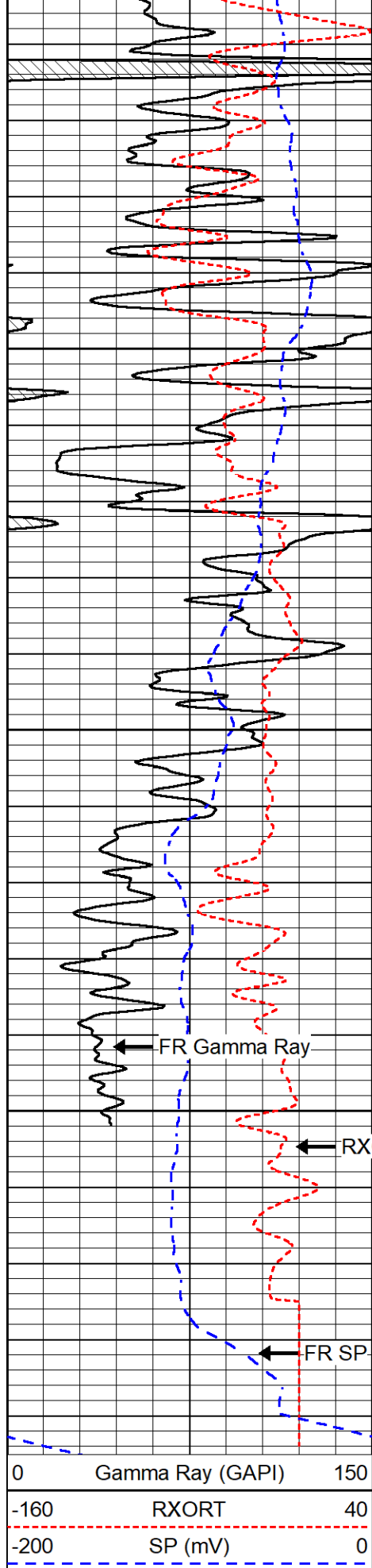
4300

4350

4400

4450





4500

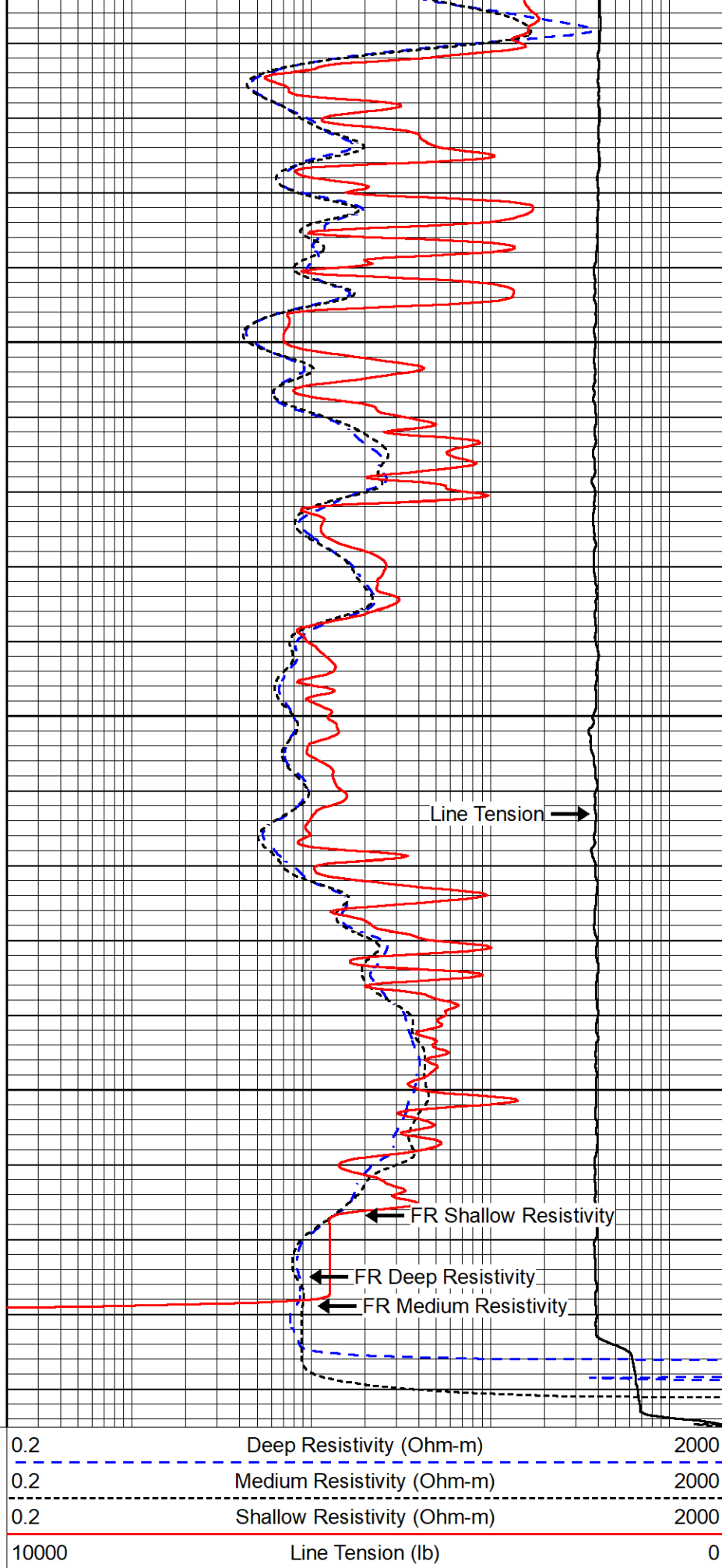
4550

4600

FR Gamma Ray

RXORT

FR SP



Line Tension

FR Shallow Resistivity

FR Deep Resistivity

FR Medium Resistivity



MIDWEST WIRELINE

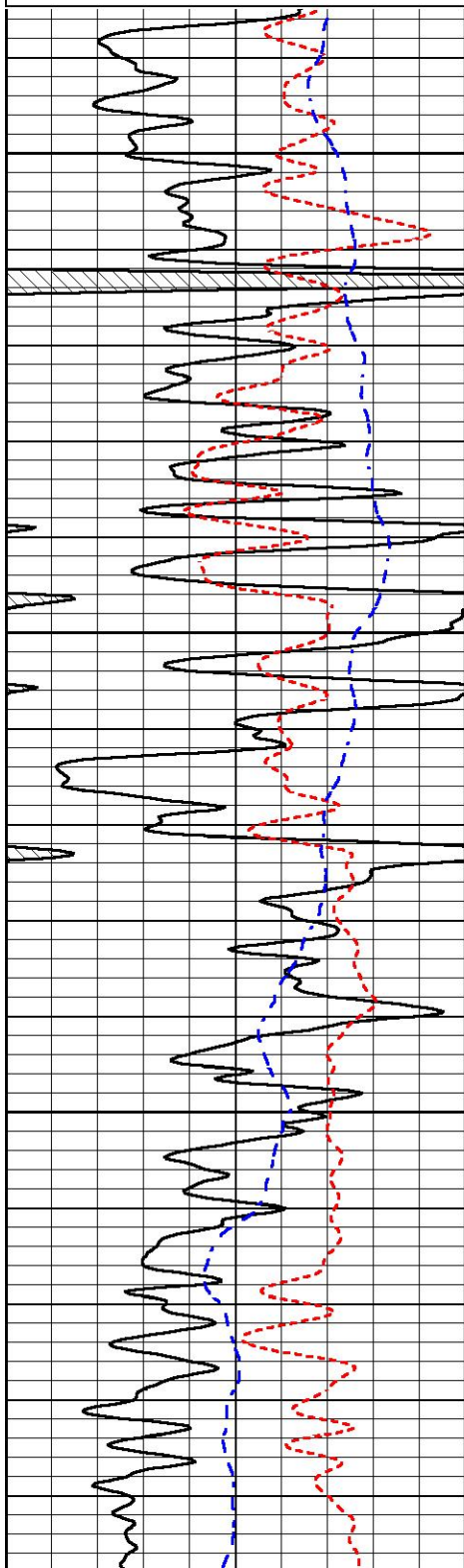
REPEAT SECTION

REPEAT PASS

Database File carmen schmitt_audrey 1.db
Dataset Pathname stkml/pass2.1
Presentation Format _dil
Dataset Creation Sat May 21 06:02:01 2022
Charted by Depth in Feet scaled 1:240

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

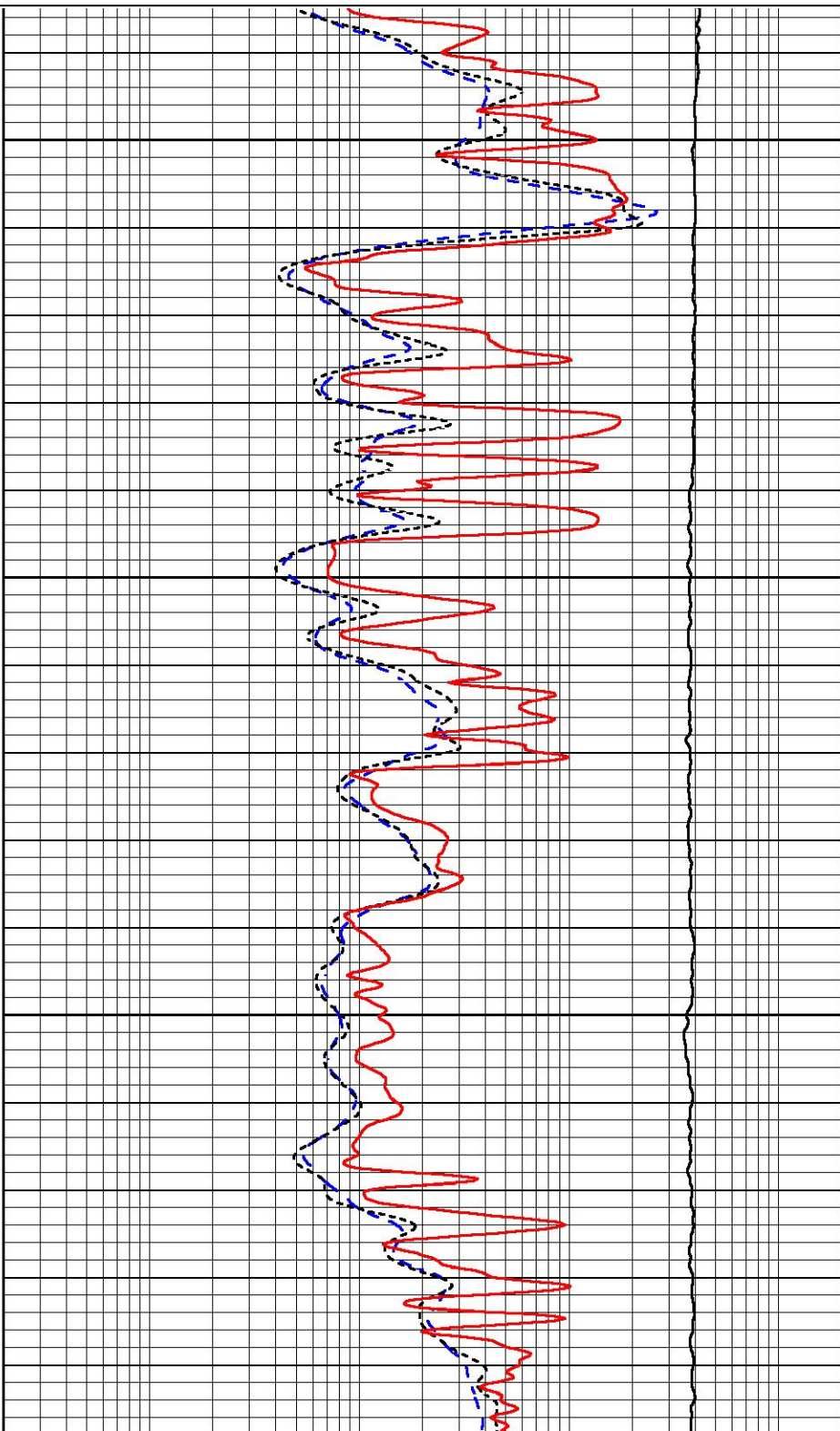
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

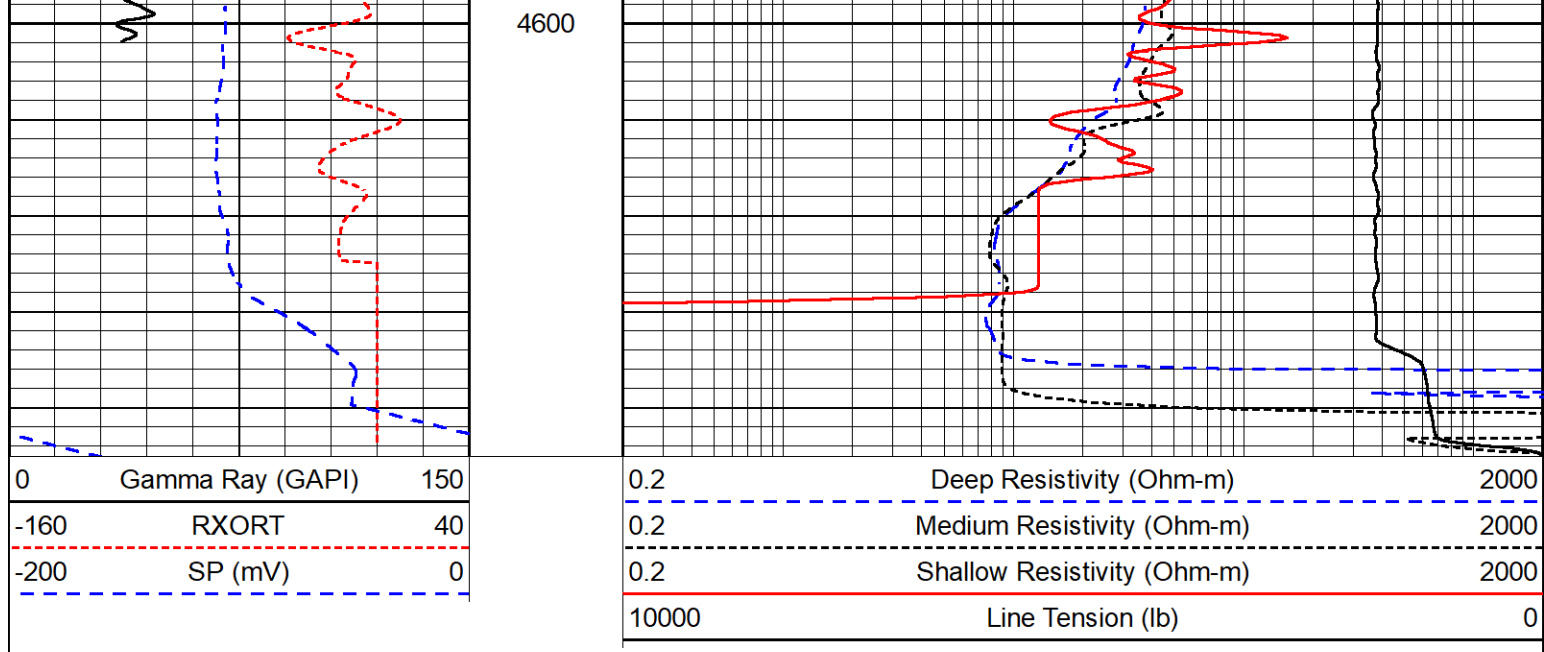


4450

4500

4550





Calibration Report							
Database File	carmen schmitt_audrey 1.db						
Dataset Pathname	stkml/pass3.19						
Dataset Creation	Sat May 21 06:13:51 2022						
Dual Induction Calibration Report							
Serial-Model:				502 HT-M&W			
Surface Cal Performed:				Wed Feb 9 17:39:00 2022			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	83.639	487.104		0.000	183.000	mmho/m	0.454
Medium	113.335	1585.690		0.000	442.000	mmho/m	0.350

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	Carmen Schmitt, Inc.
Well	Audrey #1
Field	
County	Sheridan
State	Kansas