



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company VINCENT OIL COMPANY
Well SWONGER #3-4
Field MULBERRY CREEK
County FORD State KANSAS

Location: API #: 15-057-21040-00-00

Other Services

1212' FNL & 384' FEL
SEC 4 TWP 29S RGE 23W

CNL/CDL
MEL/BHCS

Permanent Datum GROUND LEVEL Elevation 2548'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2563'
D.F. 2561'
G.L. 2548'

Date 7/9/2020

Run Number	ONE		
Depth Driller	5410'		
Depth Logger	5406'		
Bottom Logged Interval	5405'		
Top Log Interval	650'		
Casing Driller	8.625" @ 695'		
Casing Logger	694'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	9200		
Density / Viscosity	9.25 65		
pH / Fluid Loss	10.5 12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.20 @ 80		
Rmt @ Meas. Temp	0.15 @ 80		
Rmc @ Meas. Temp	0.27 @ 80		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.12 @ 130		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	130		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	KEN LEBLANC		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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.

FORD,
5 1/2 SOUTH ON KINGSDOWN FORD RD TO WILBURN RD,
4.2 WEST, SOUTH INTO AT TB

Log Measured From: KELLY BUSHING 15 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: KEN LEBLANC
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\vincent_swonger 3-4.db
Dataset field/well/STKML/pass3.2/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	4.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	115	0	Off	0



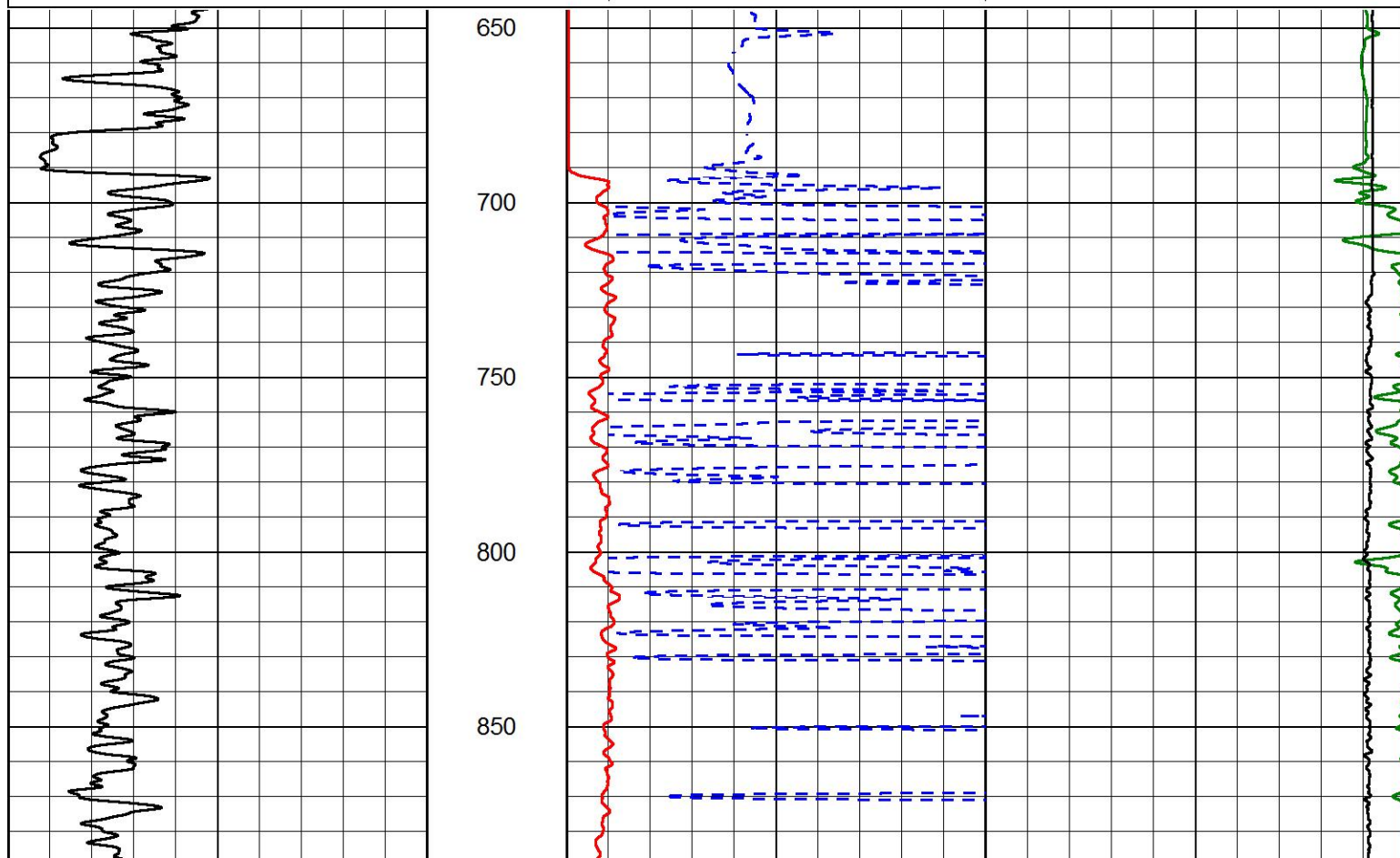
MAIN PASS

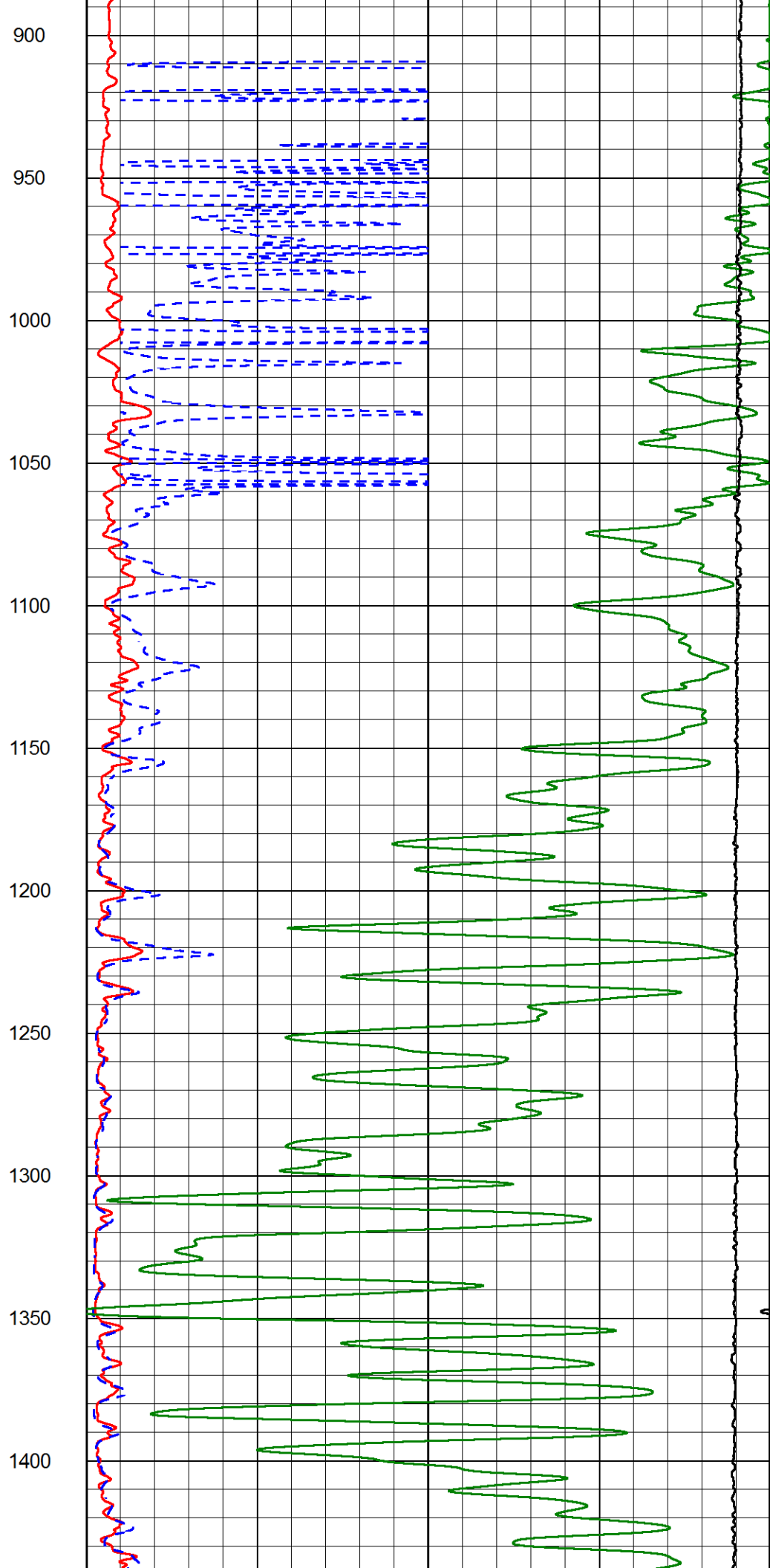
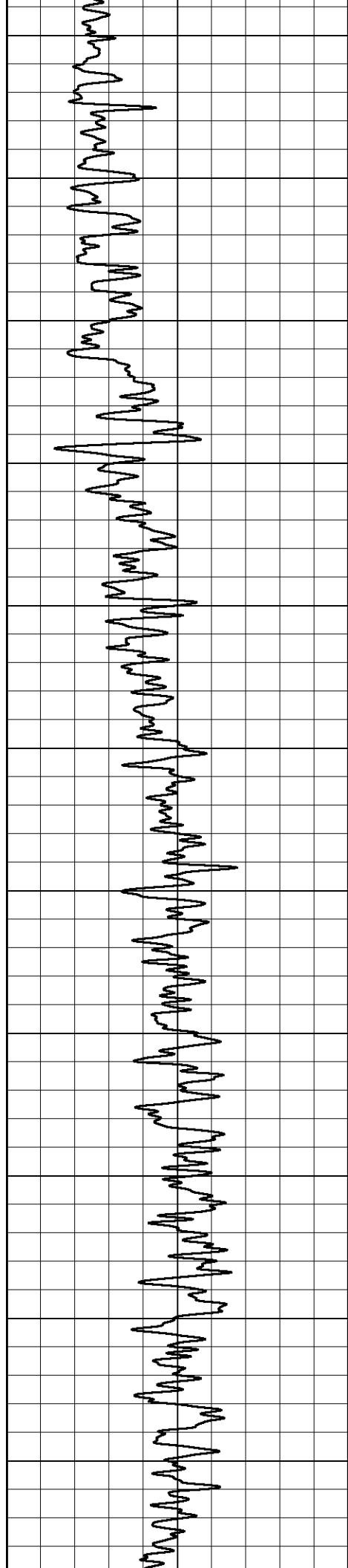
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Dataset Pathname STKML/pass4.1
Presentation Format _dil2in
Dataset Creation Fri Jul 10 00:30:52 2020
Charted by Depth in Feet scaled 1:600

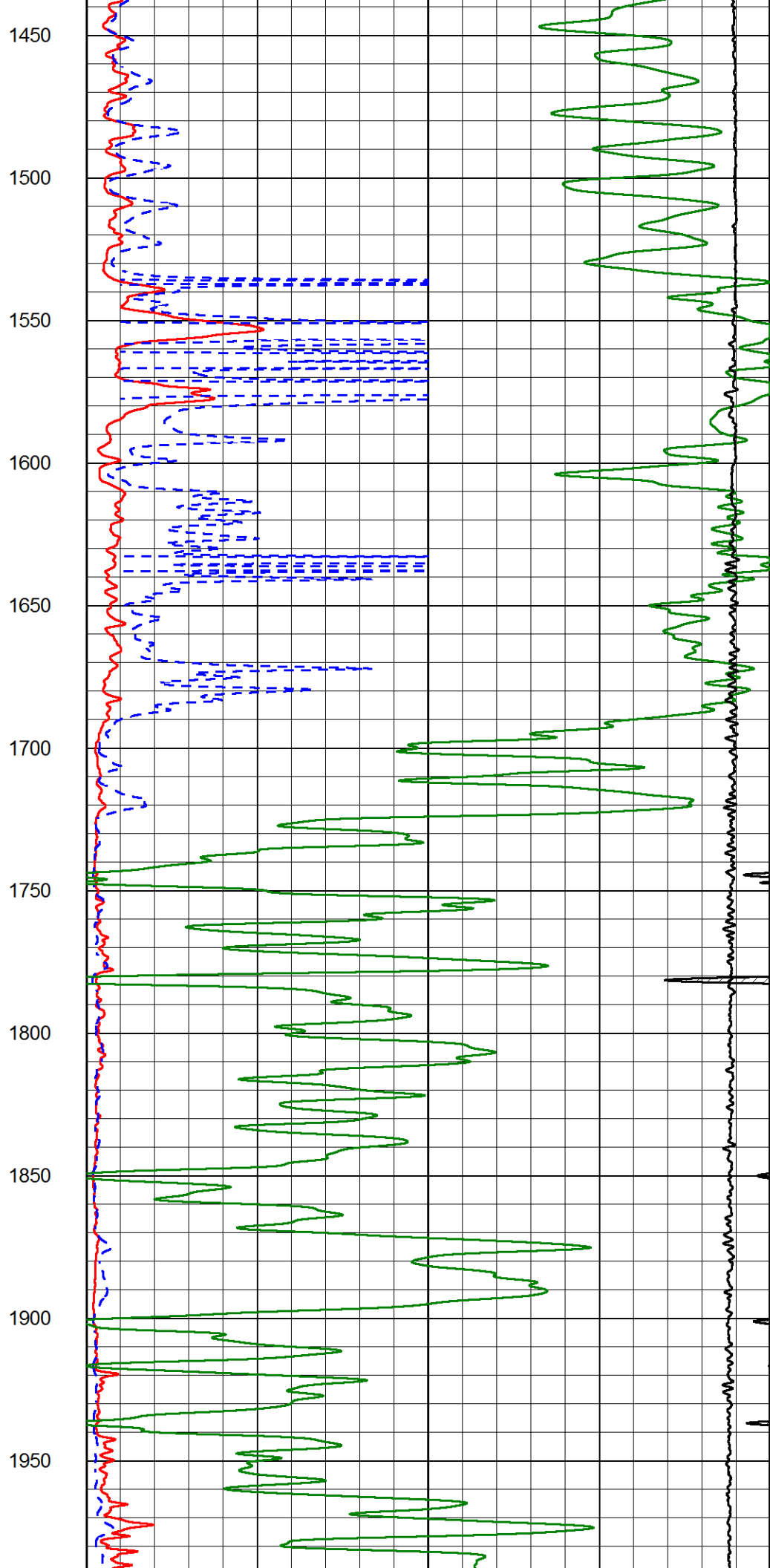
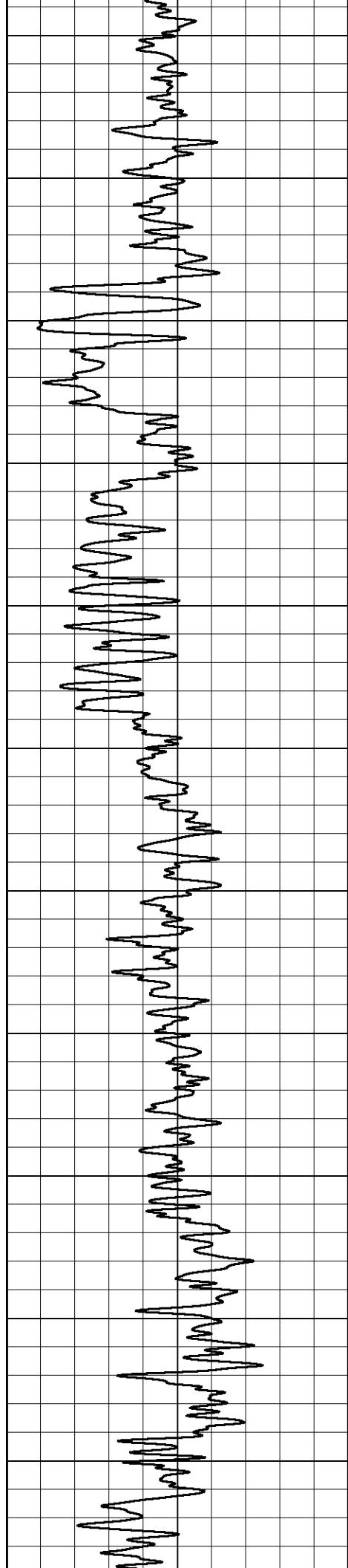
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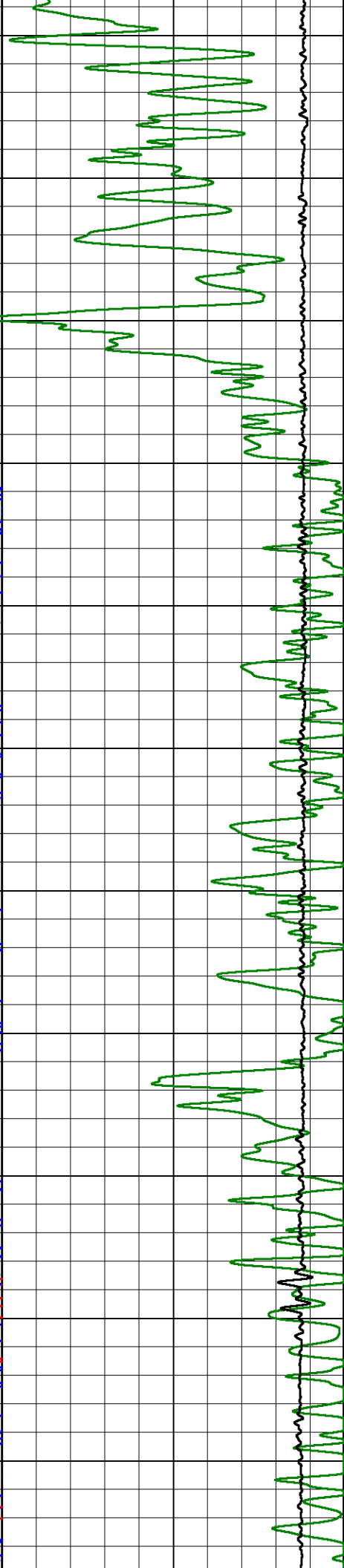
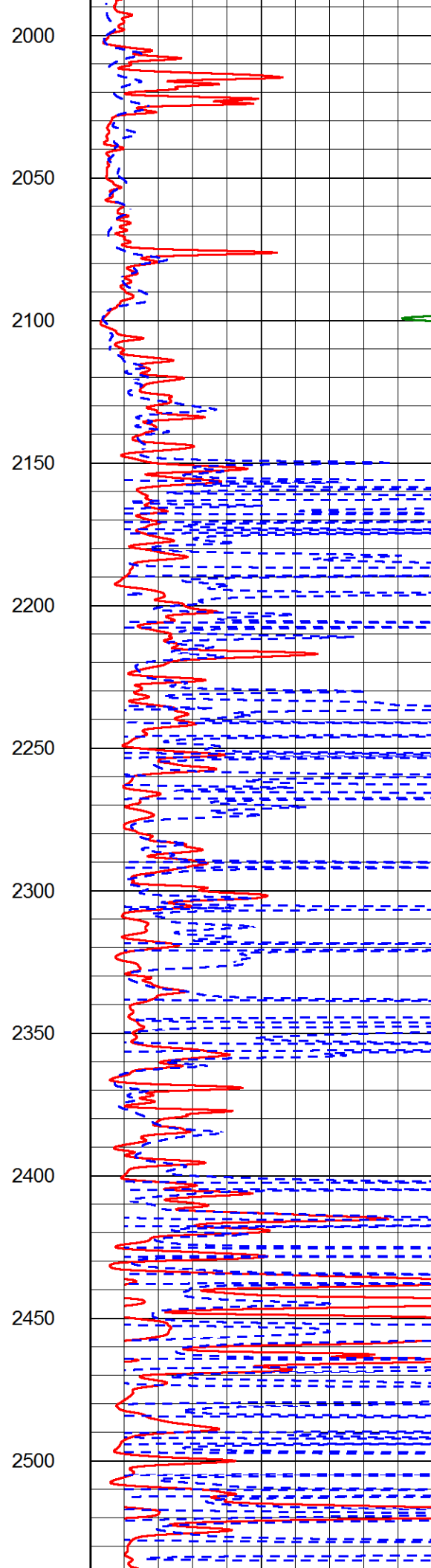
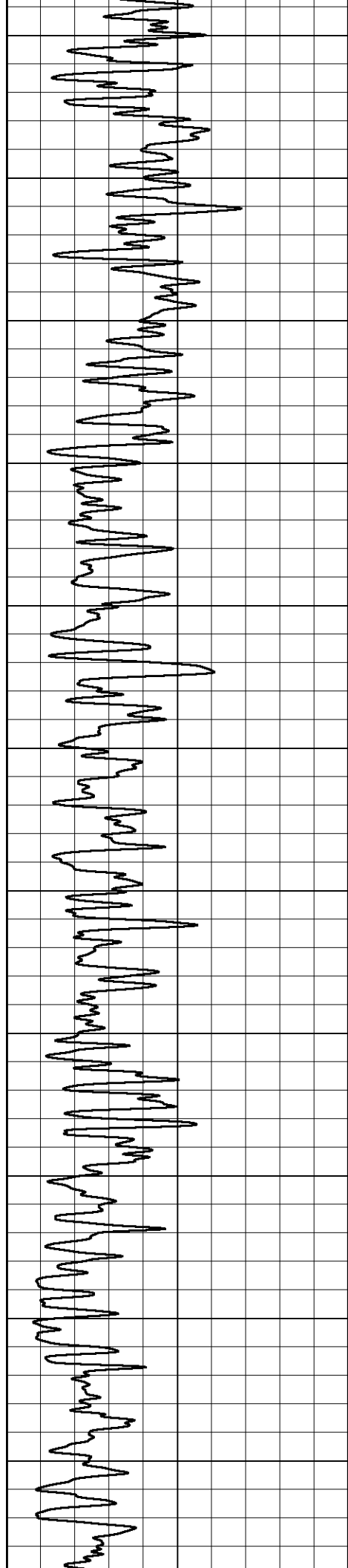
0 (GAPI) 150

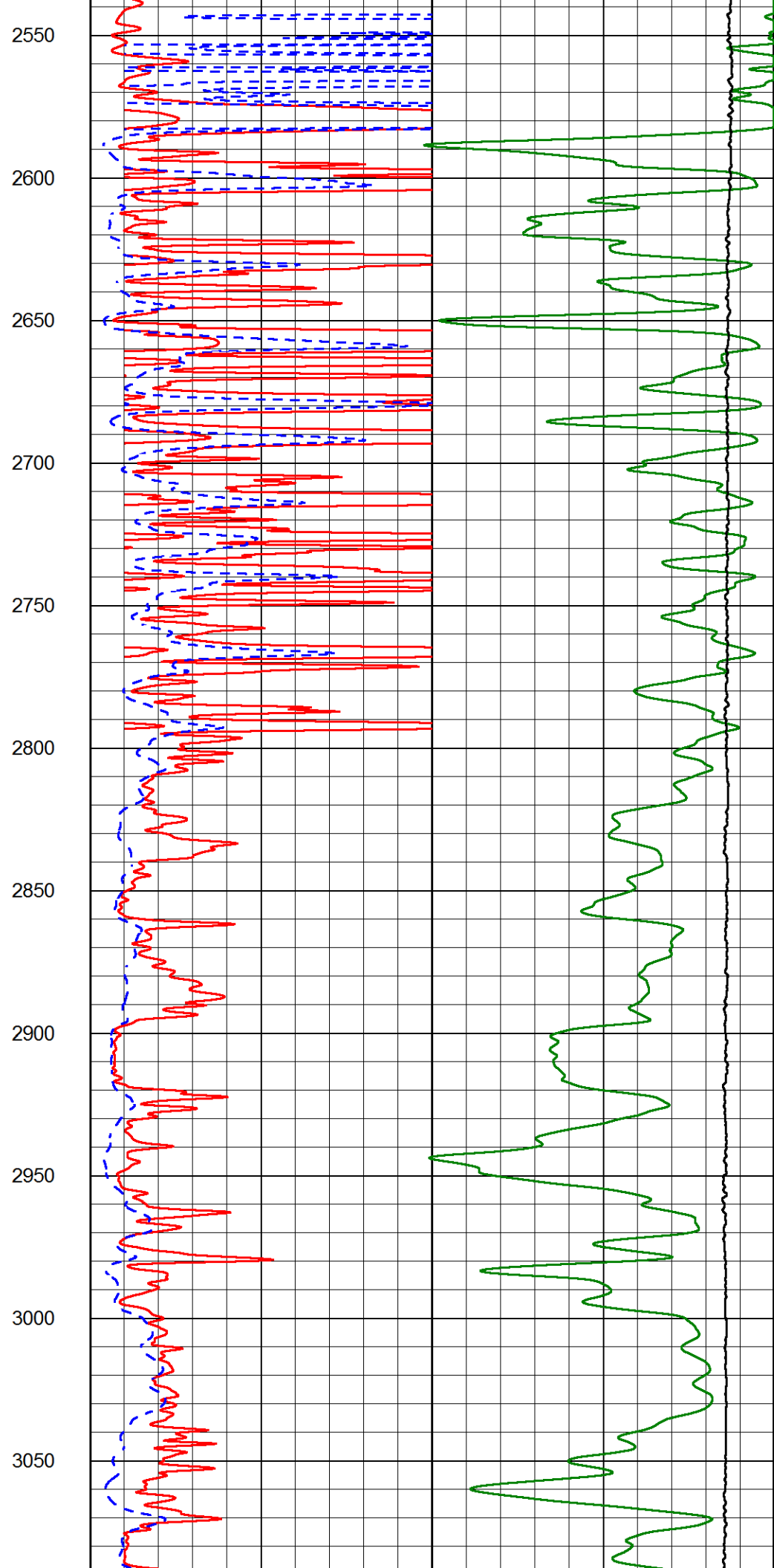
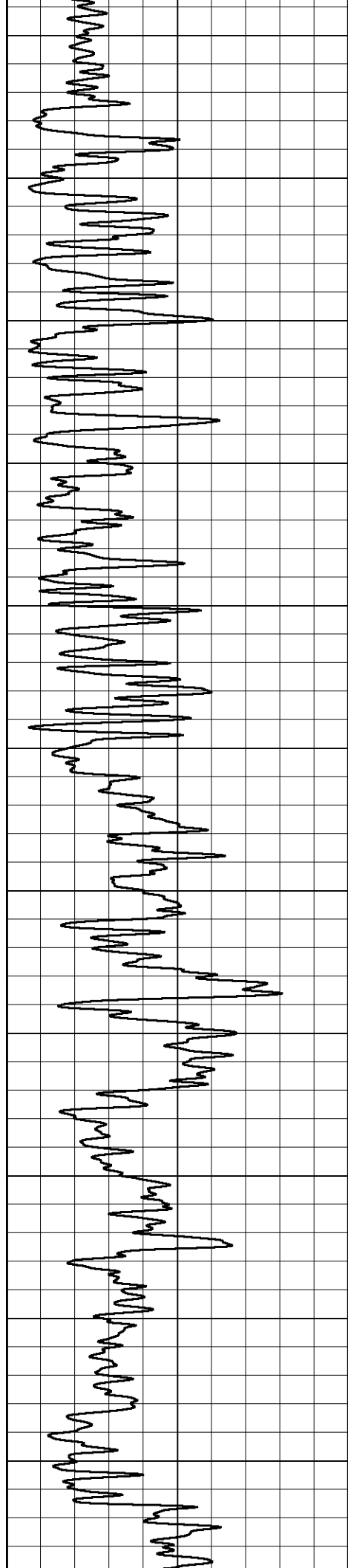
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15000	Line Tension (lb)	0
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50
50	RLL3 (Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200

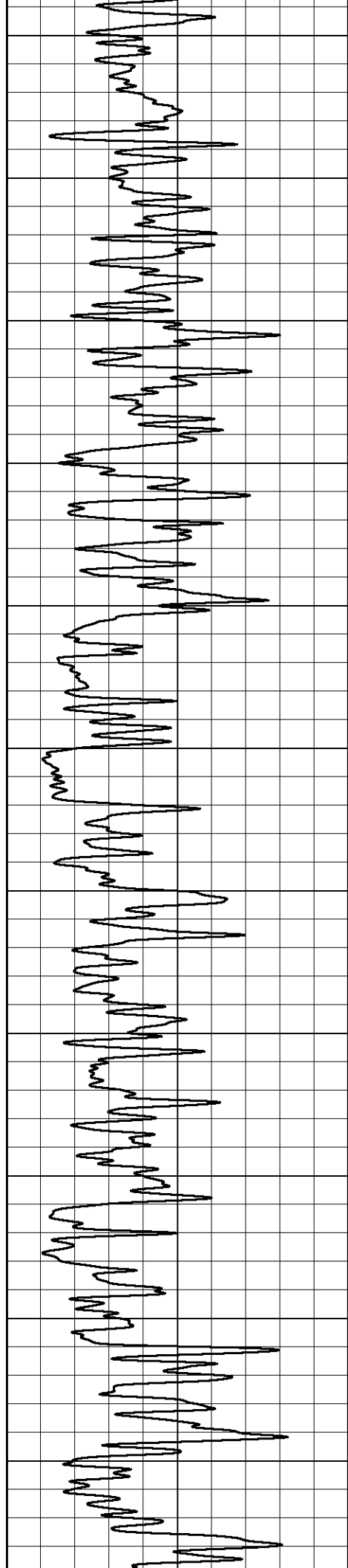












3100

3150

3200

3250

3300

3350

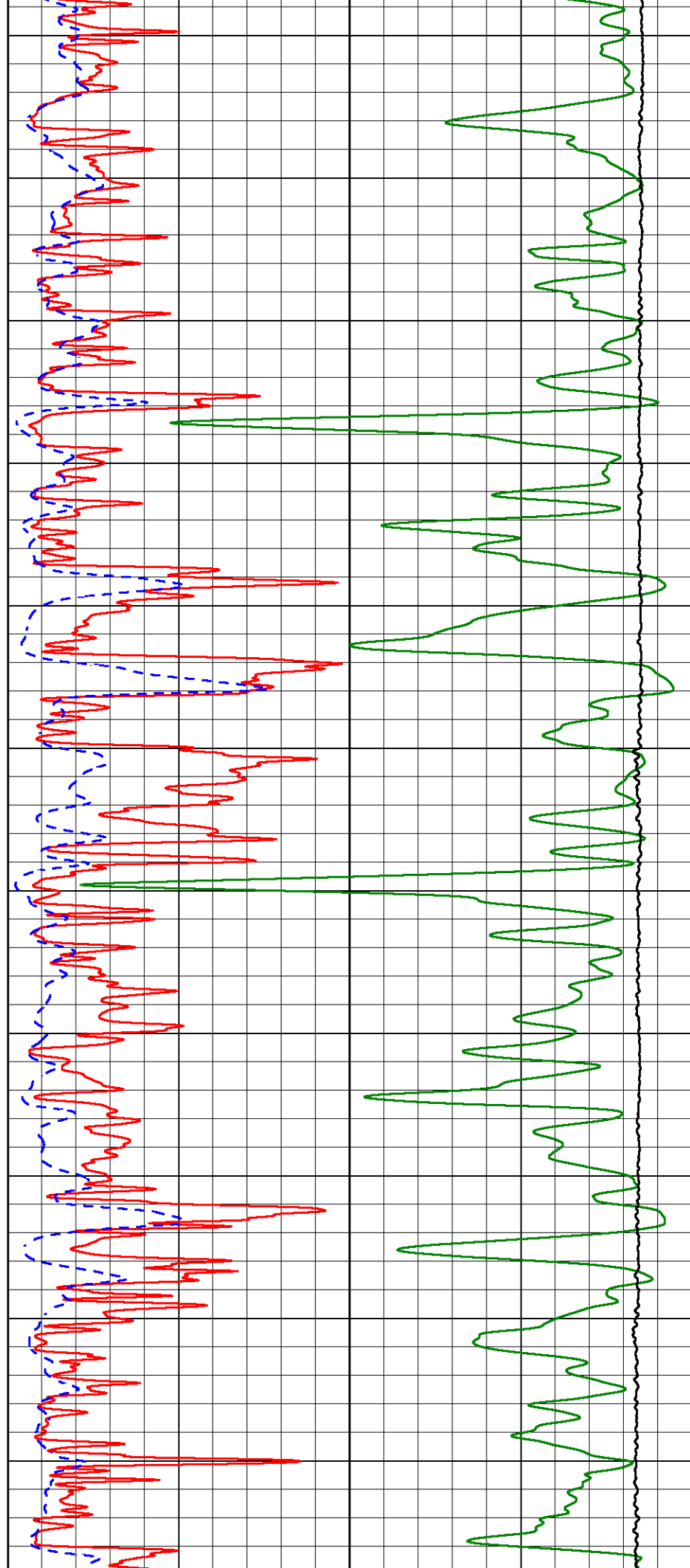
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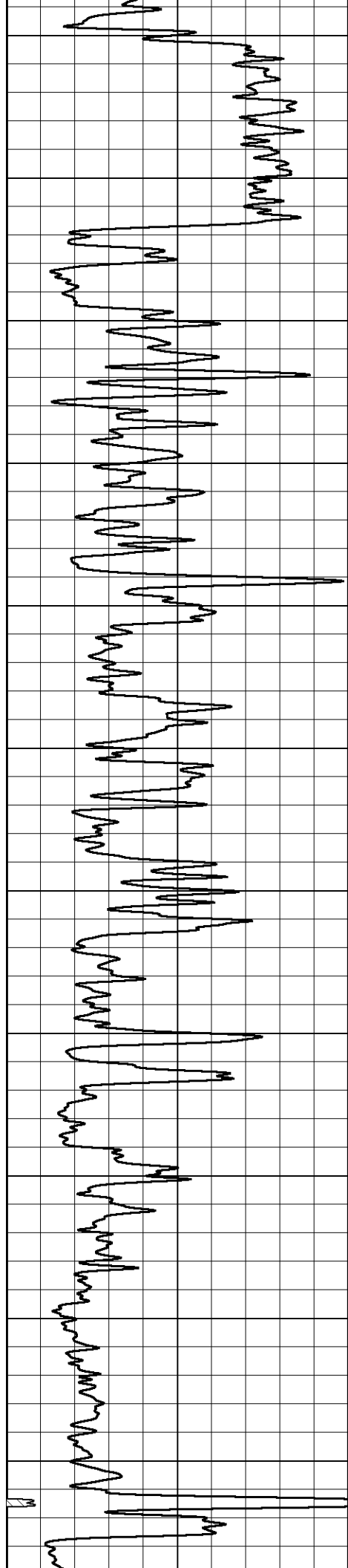
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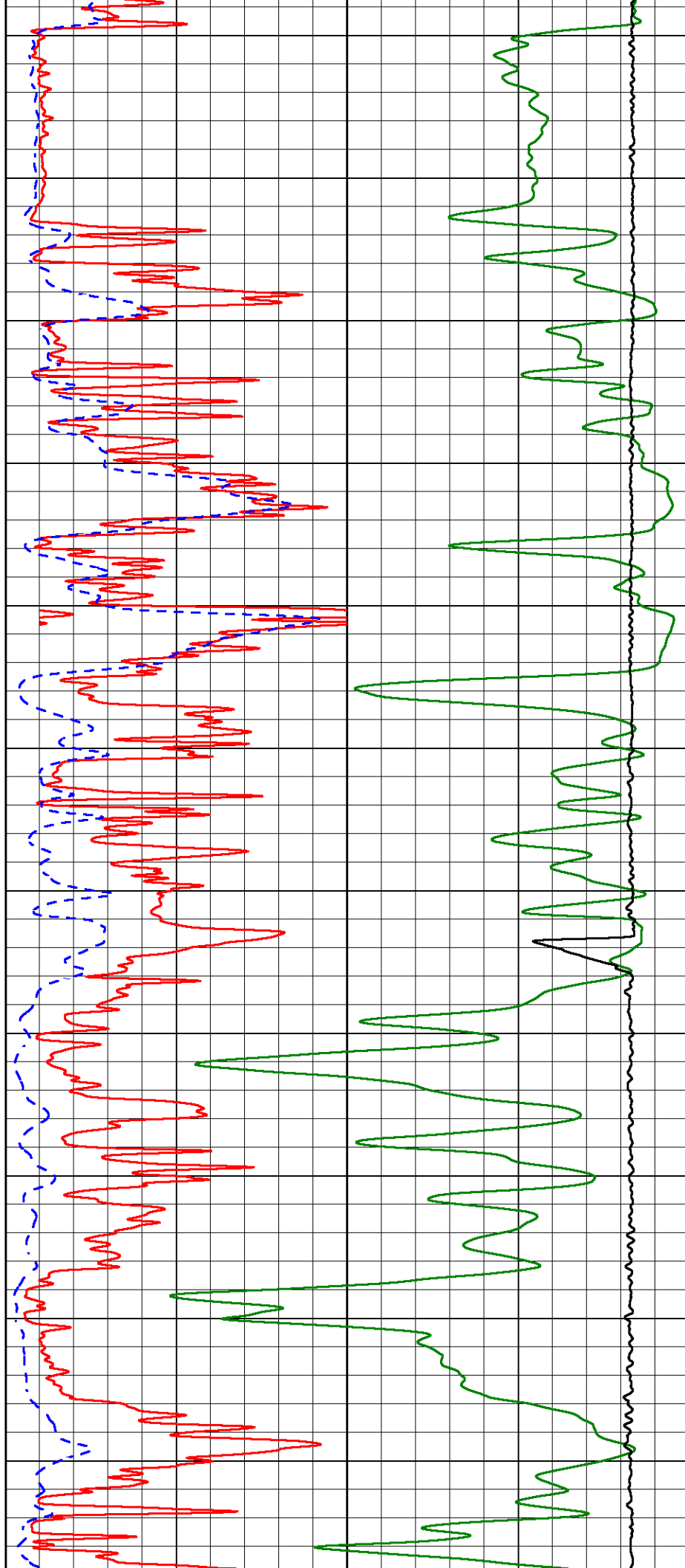
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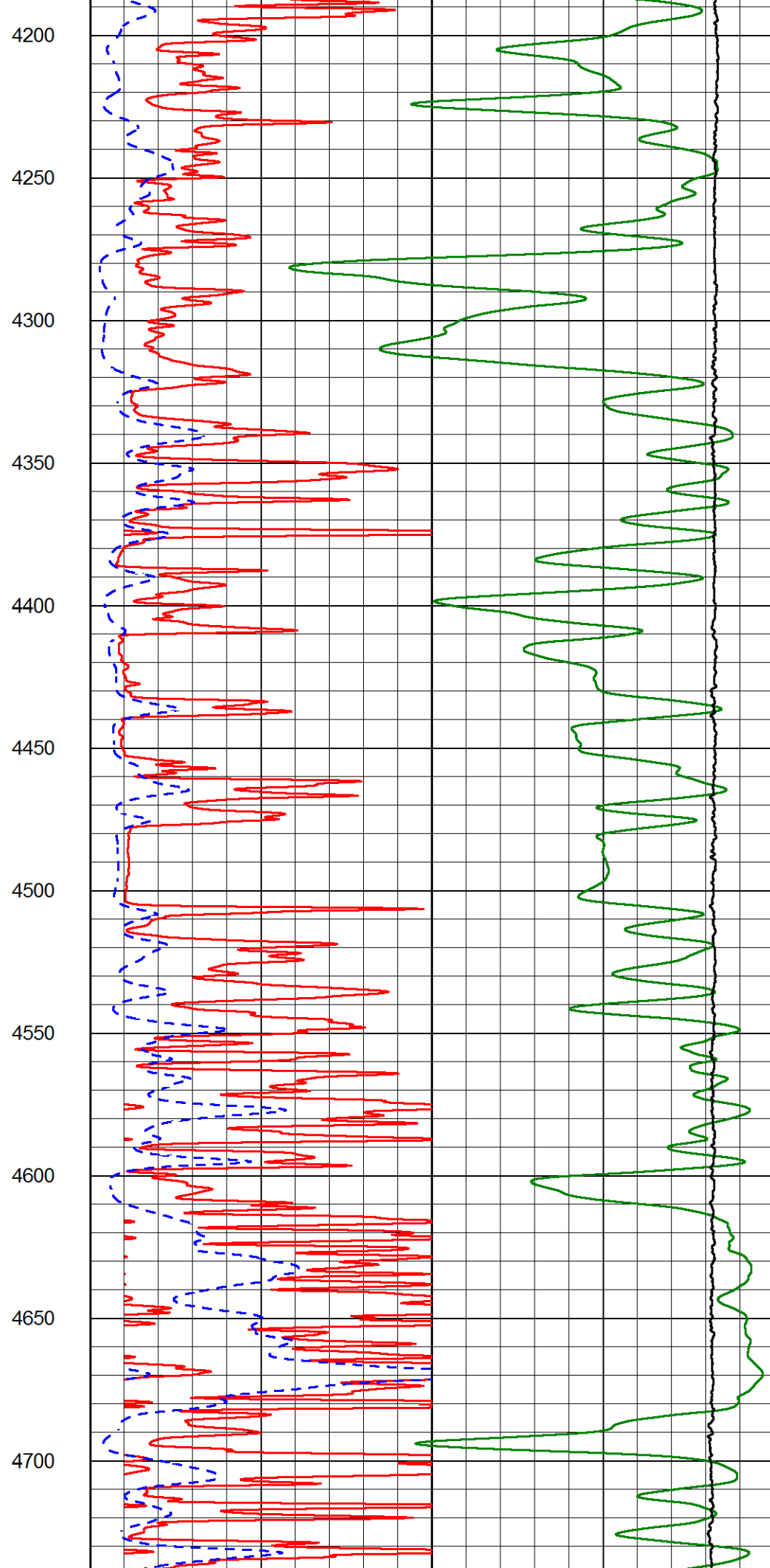
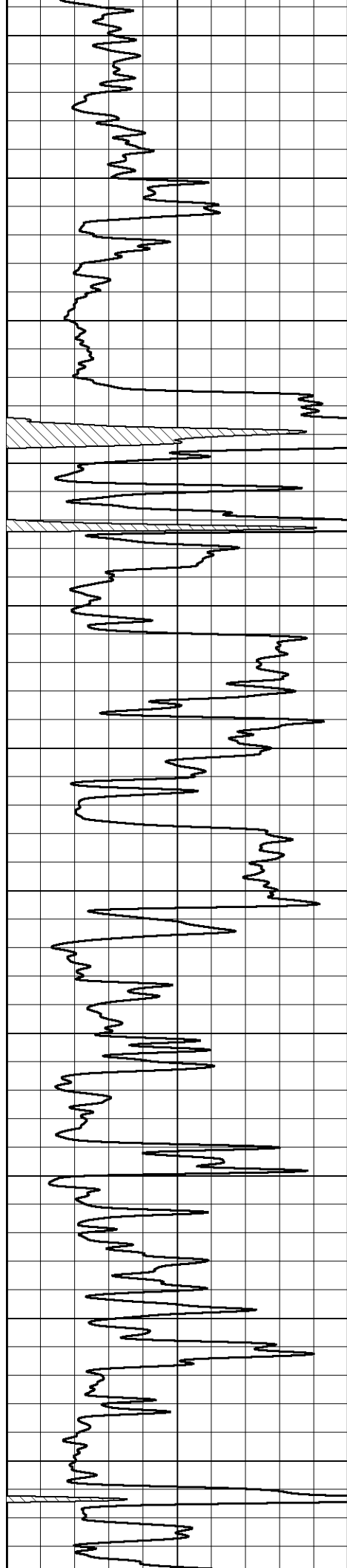
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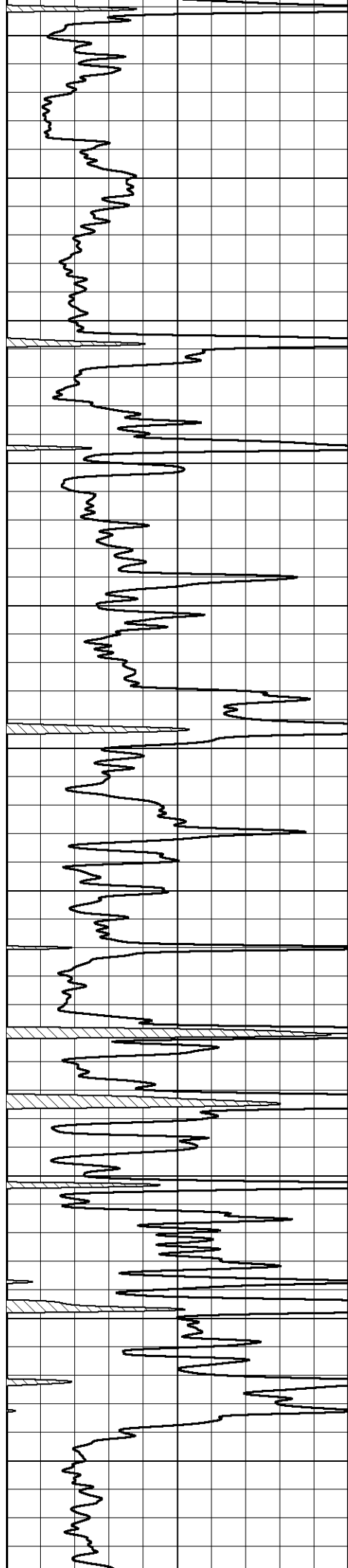




3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150







4750

4800

4850

4900

4950

5000

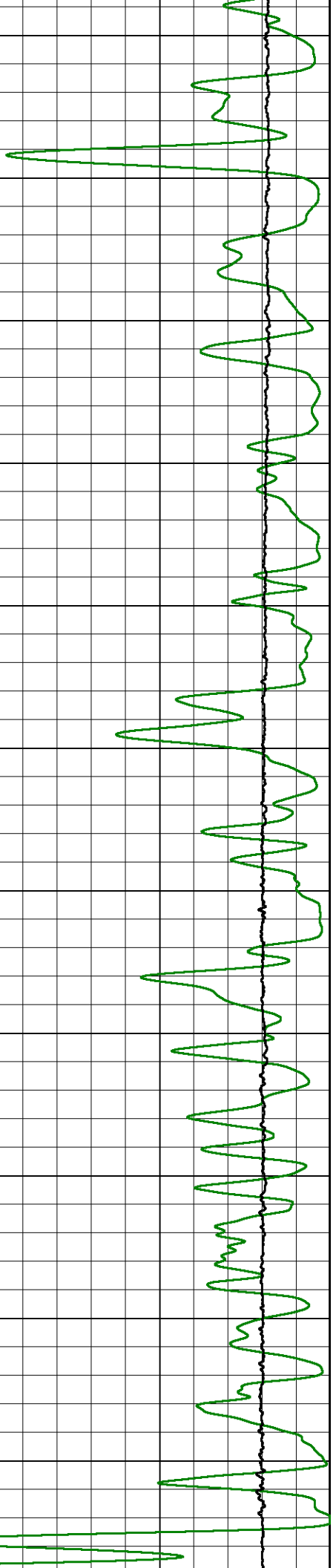
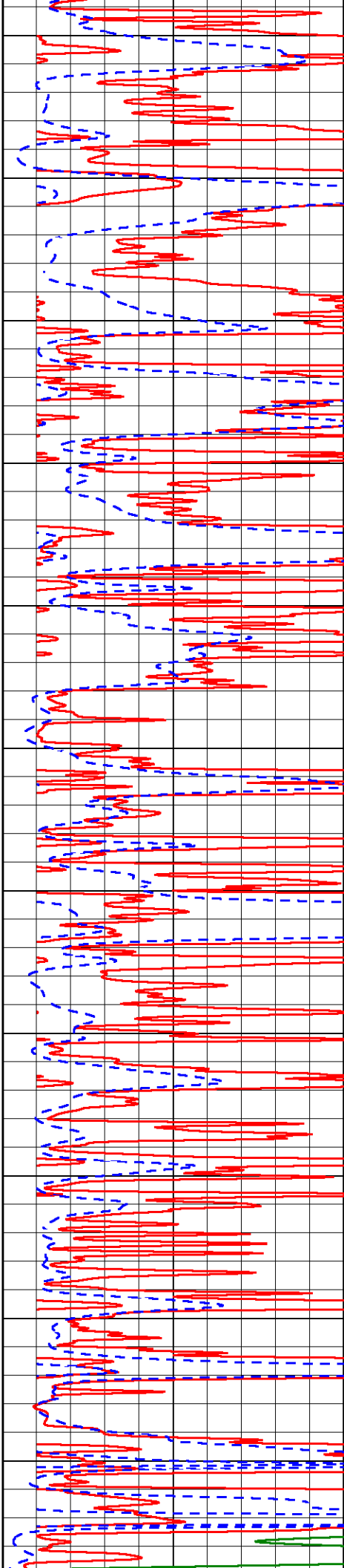
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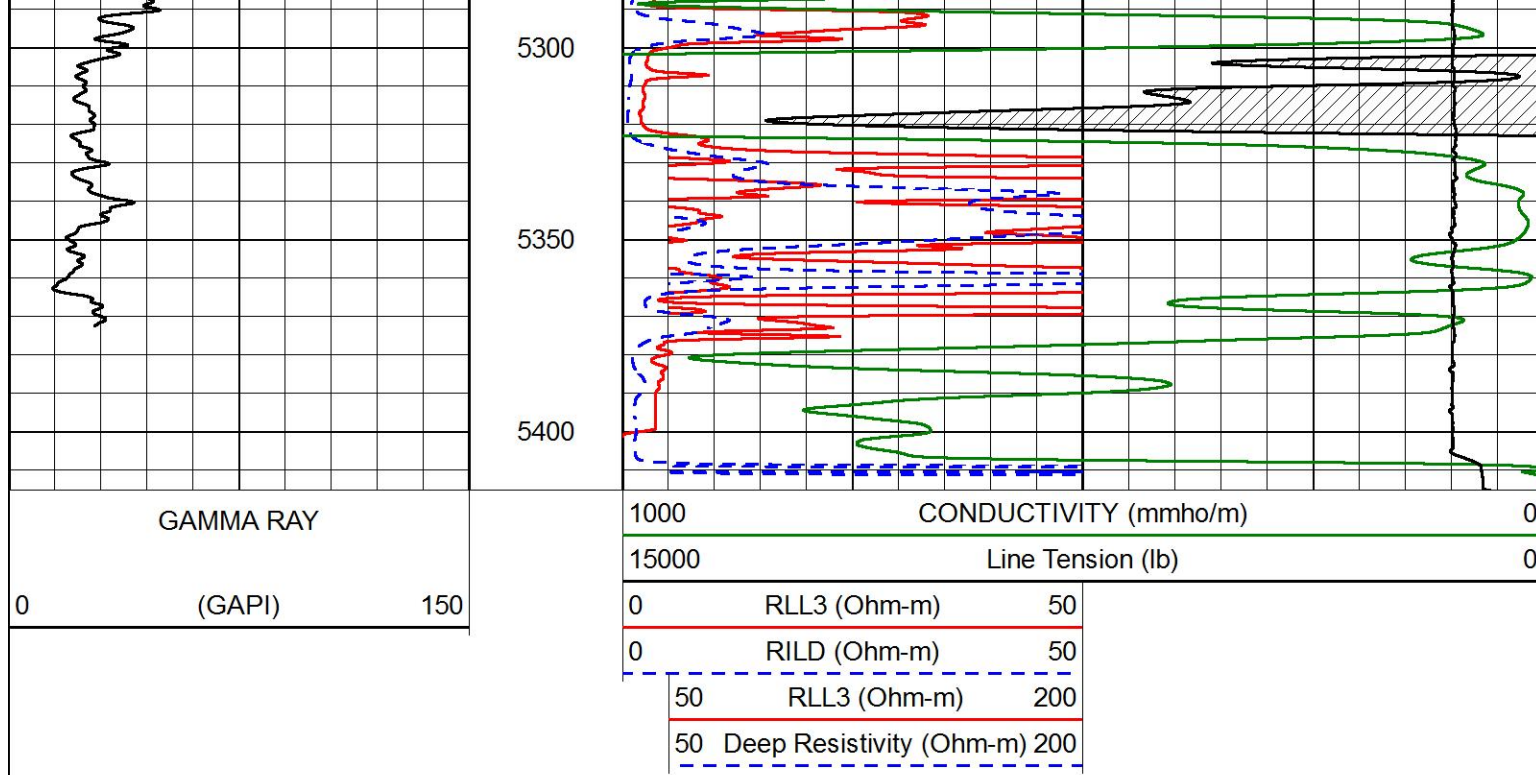
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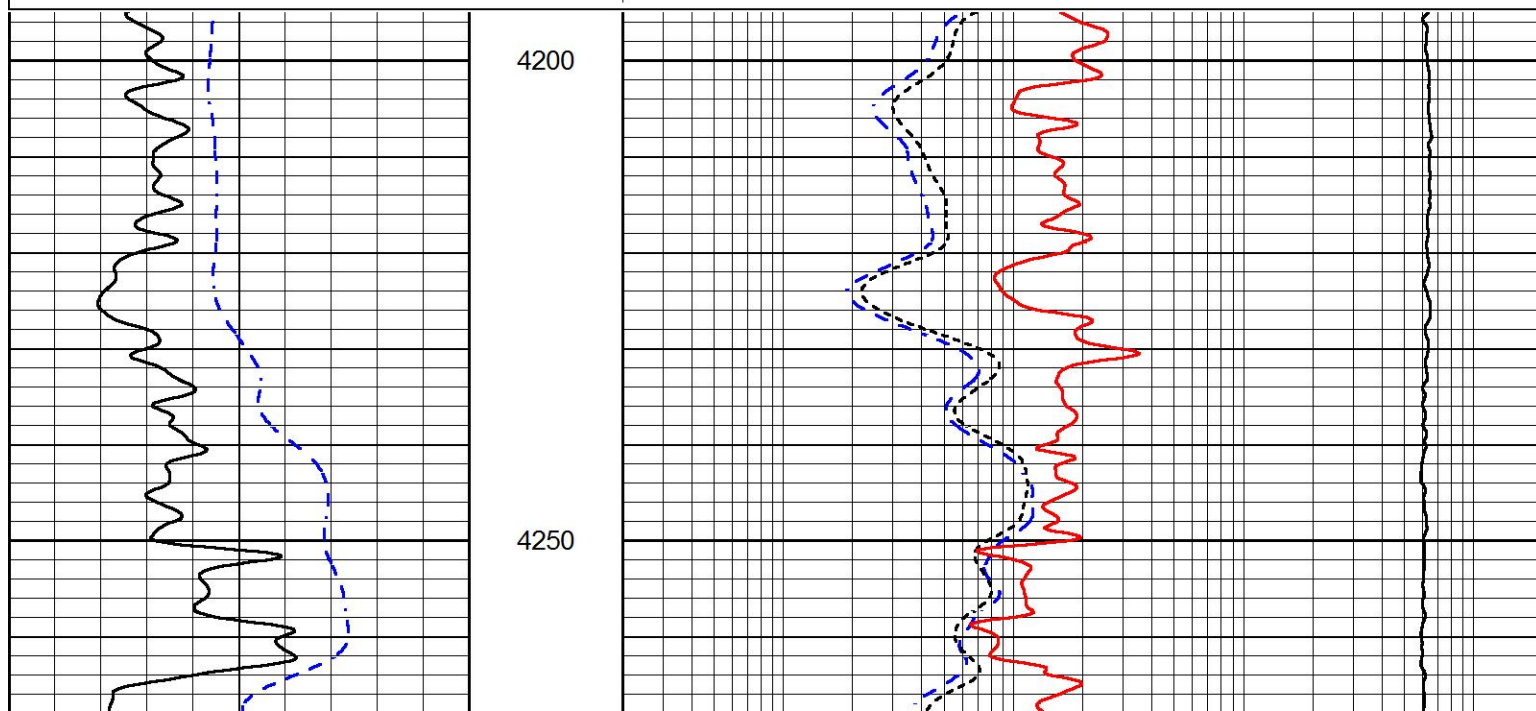
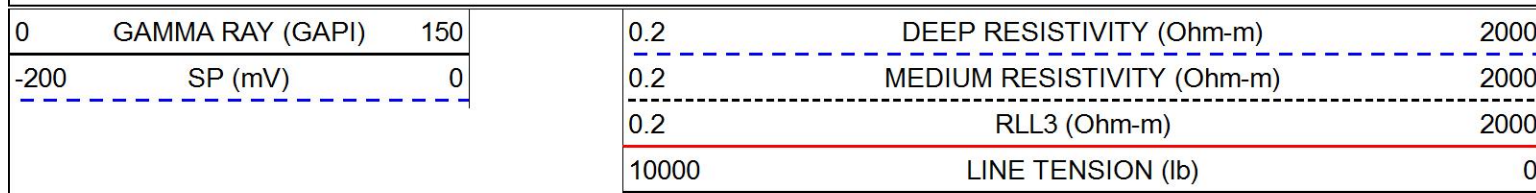
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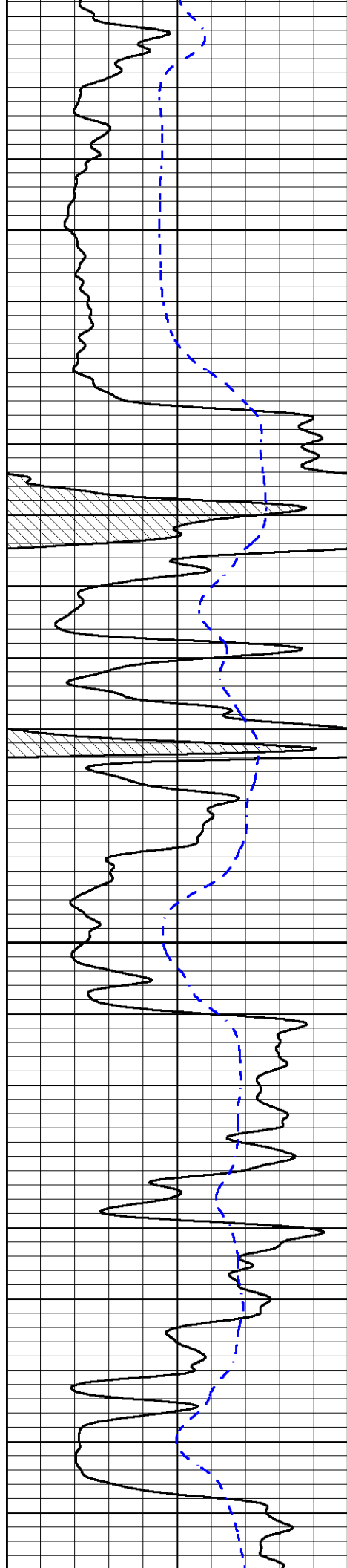
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Database File vincent_swonger 3-4.db
 Dataset Pathname STKML/pass3.1
 Presentation Format _dil
 Dataset Creation Thu Jul 09 23:30:36 2020
 Charted by Depth in Feet scaled 1:240



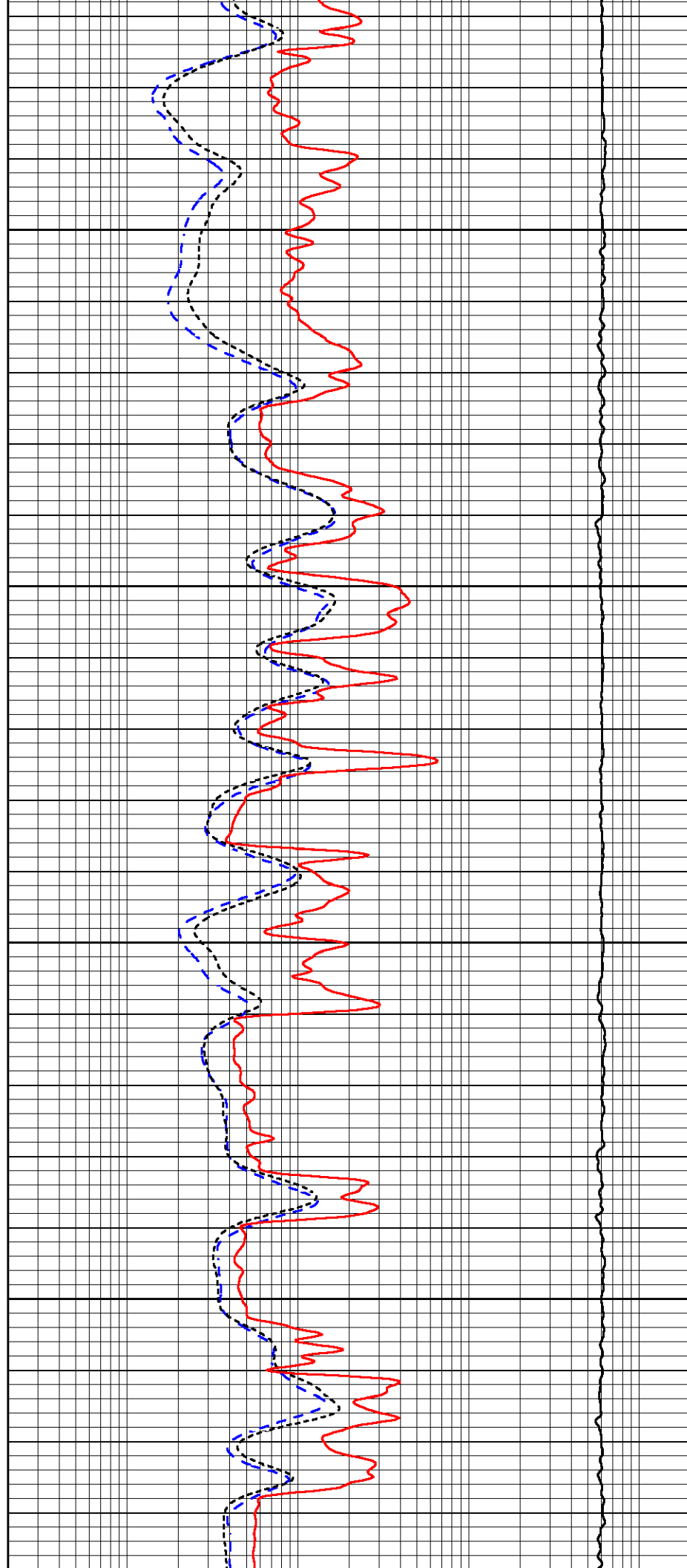


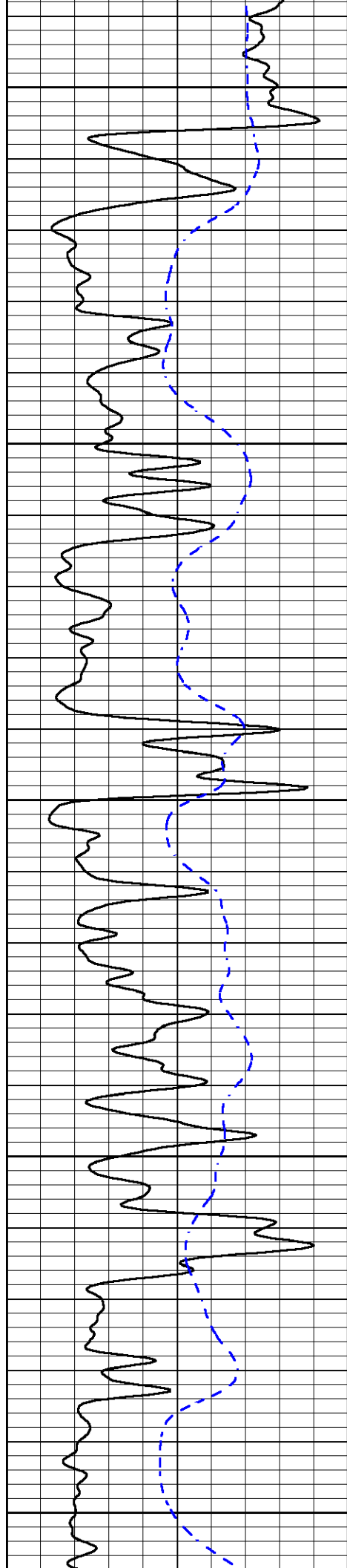
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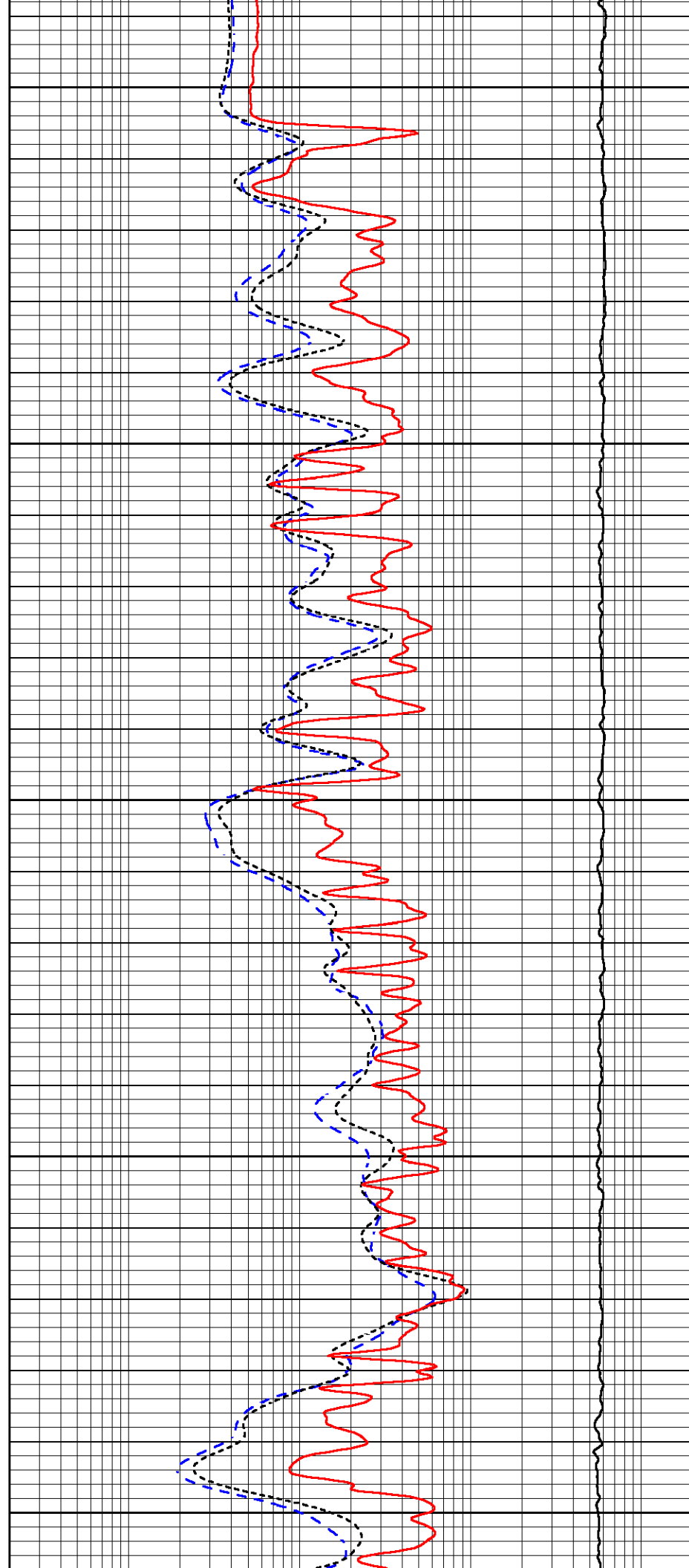
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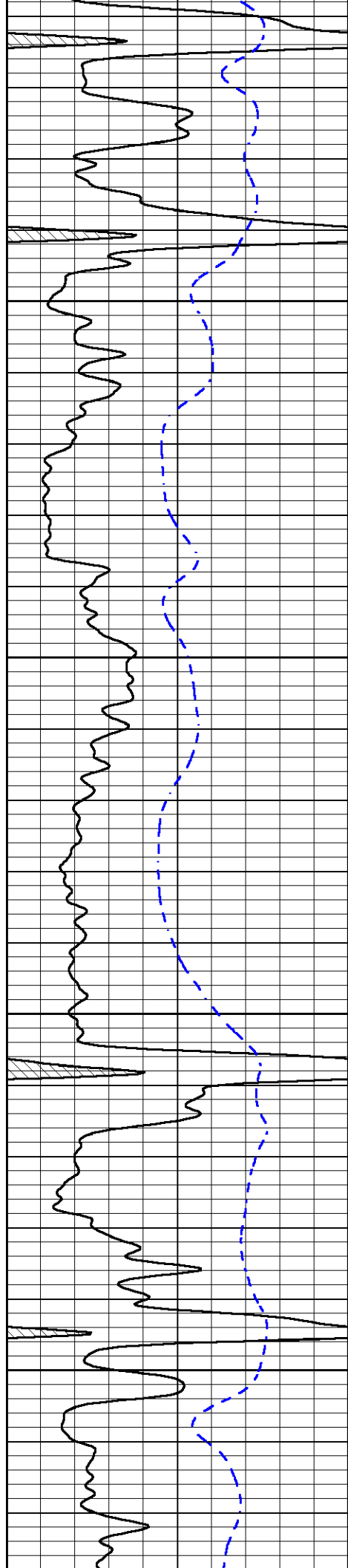
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4600

4650

4700



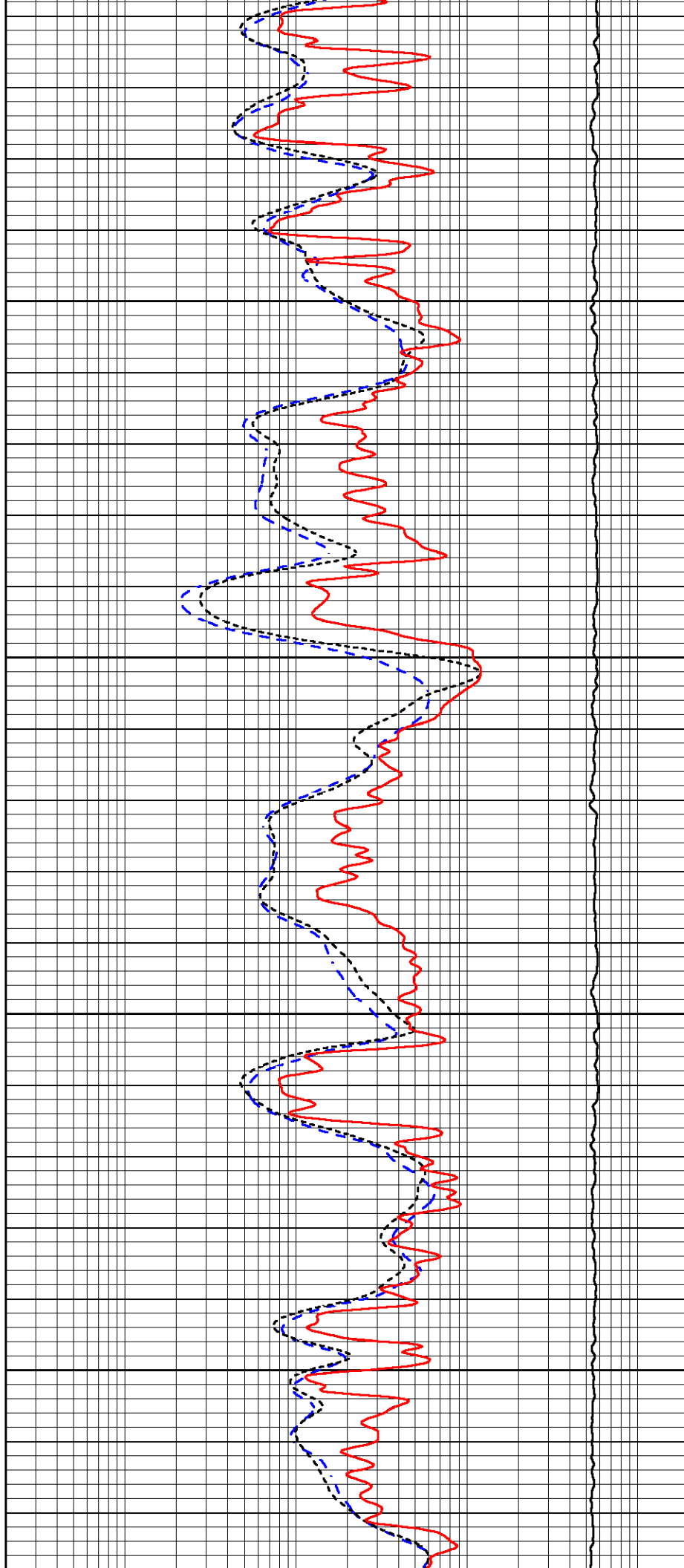


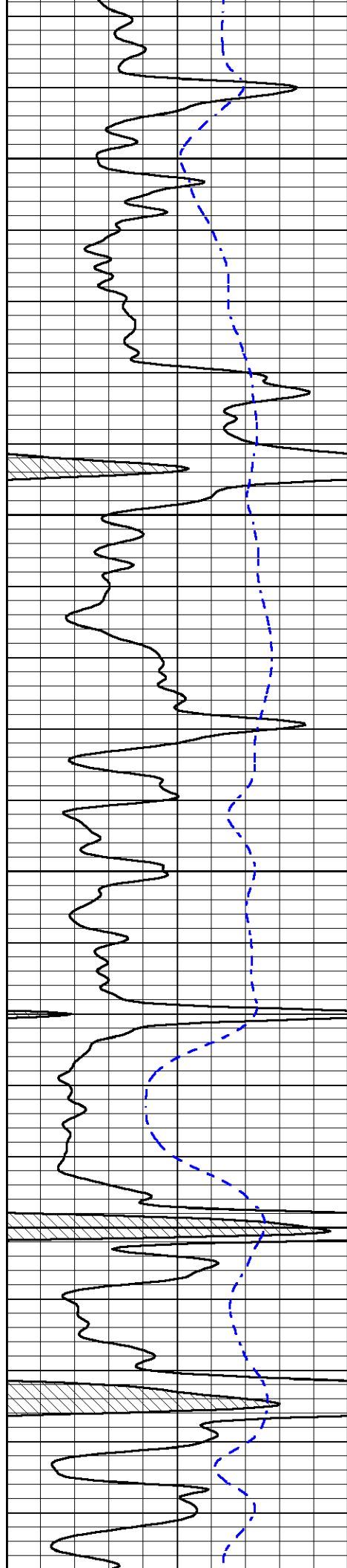
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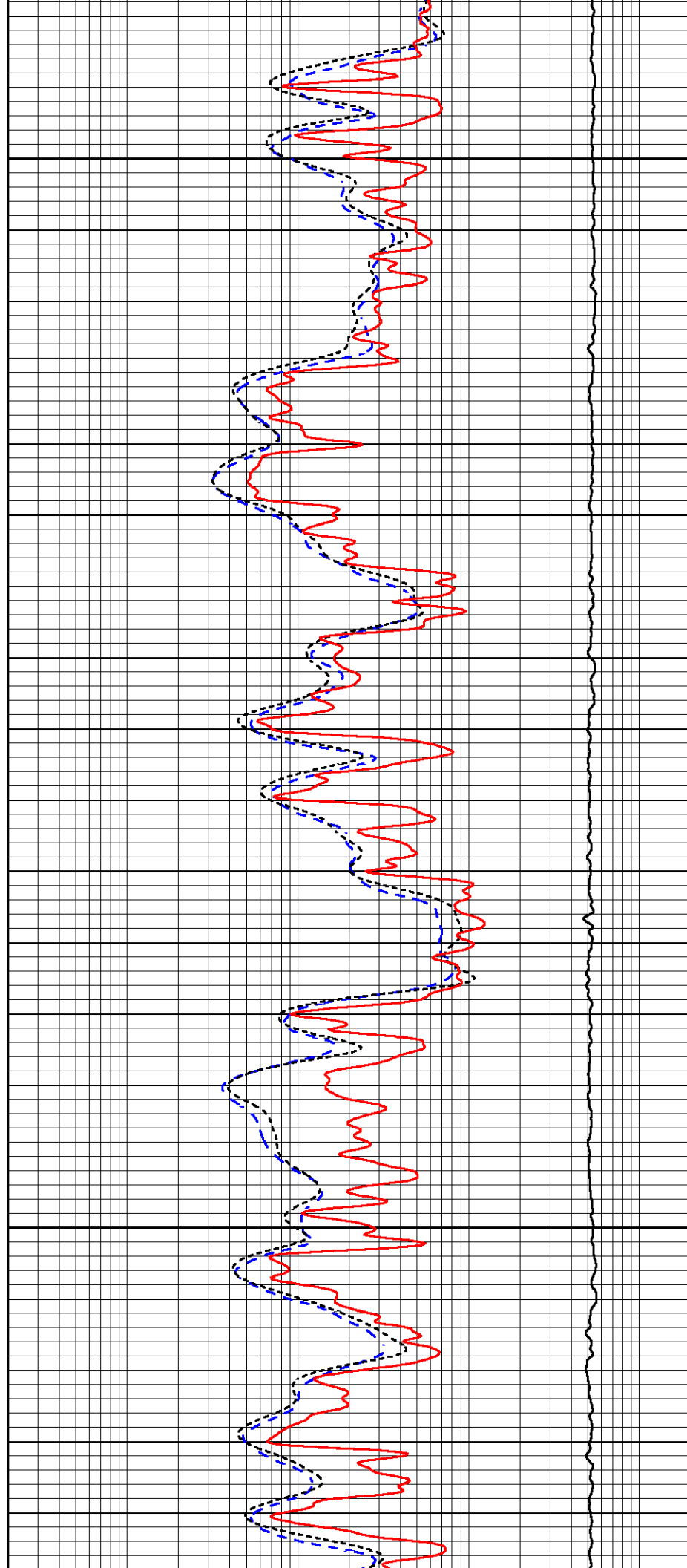


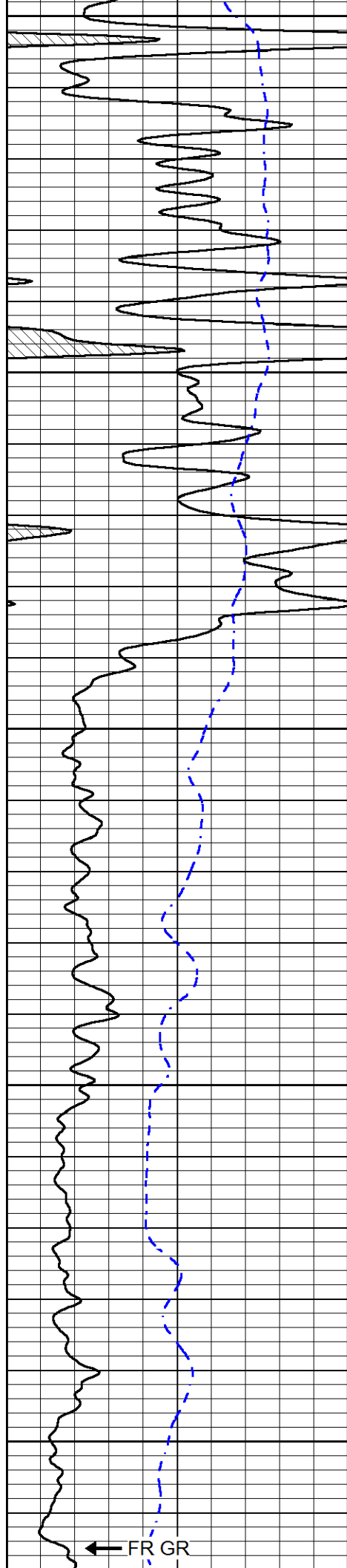
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5000

5050

5100





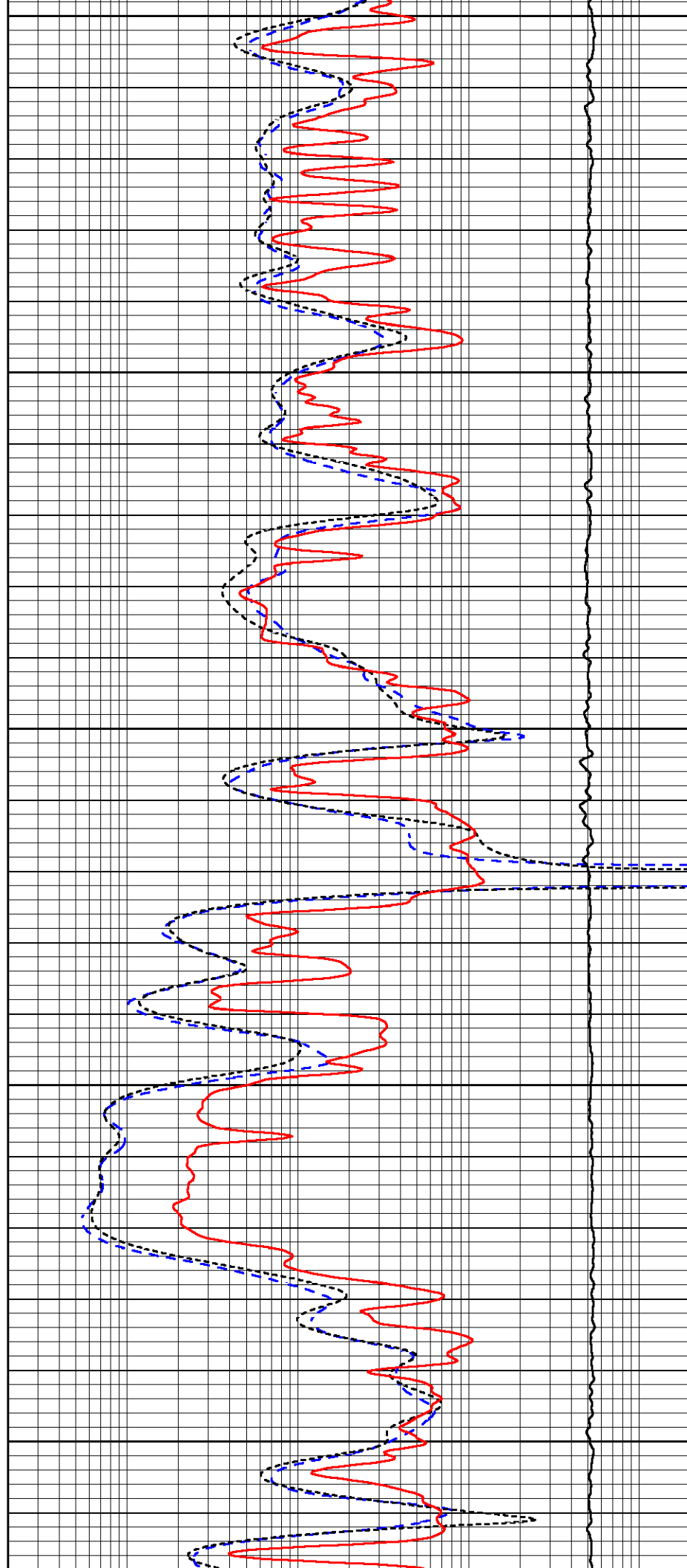
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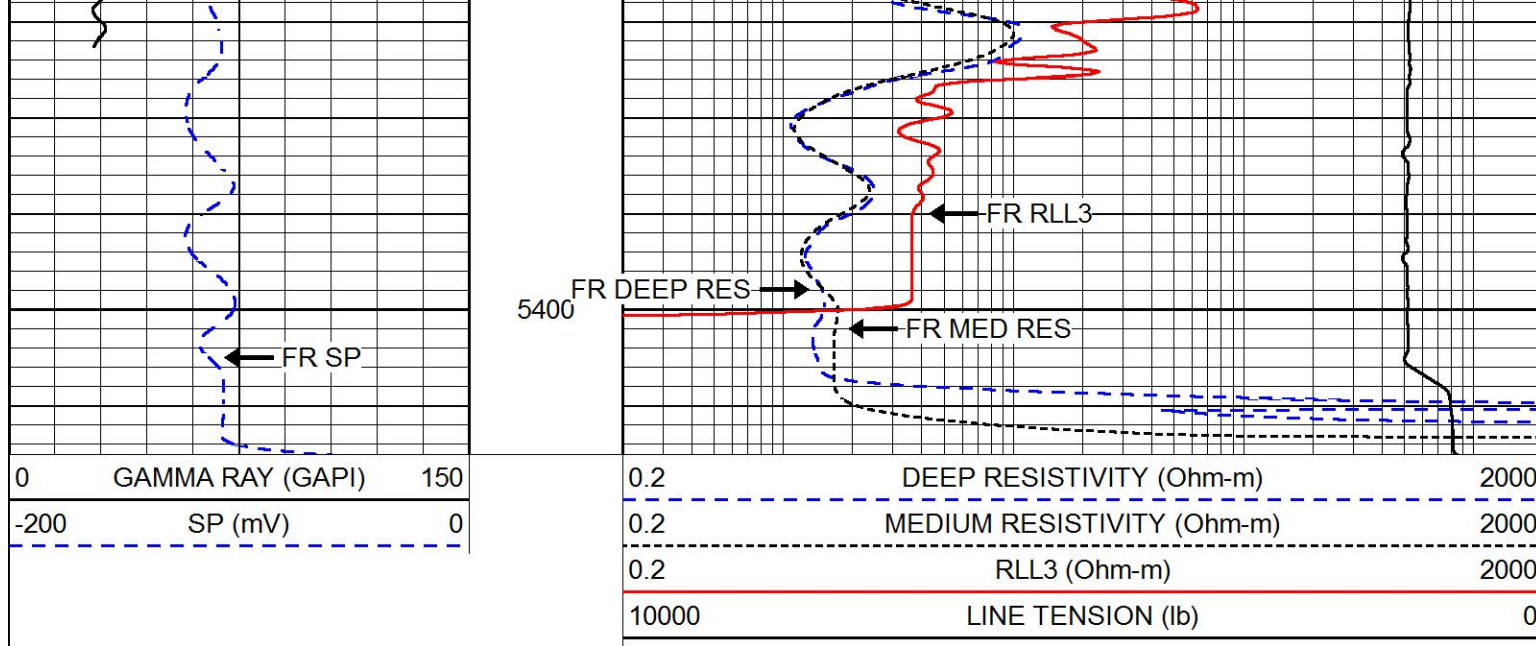
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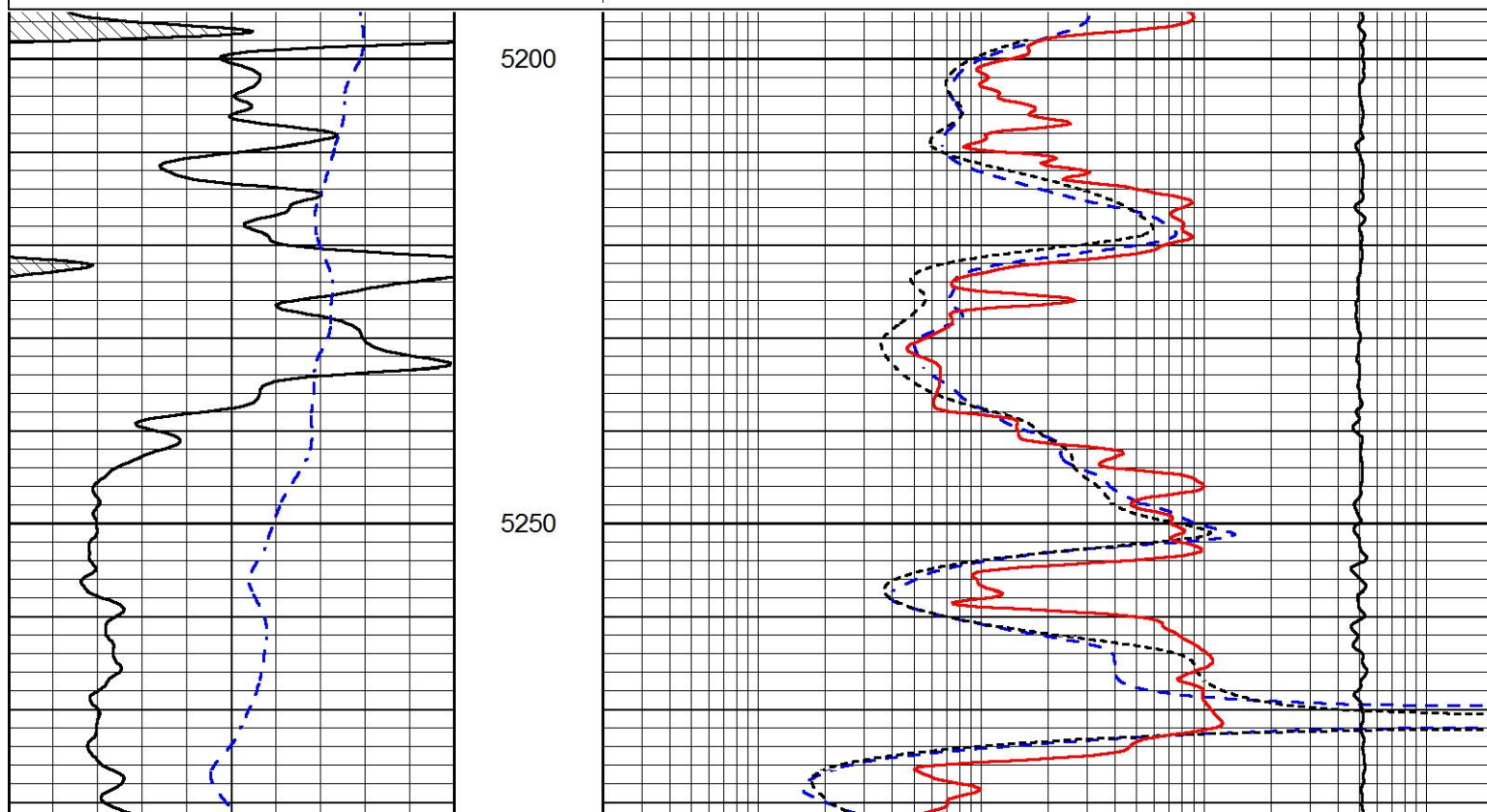
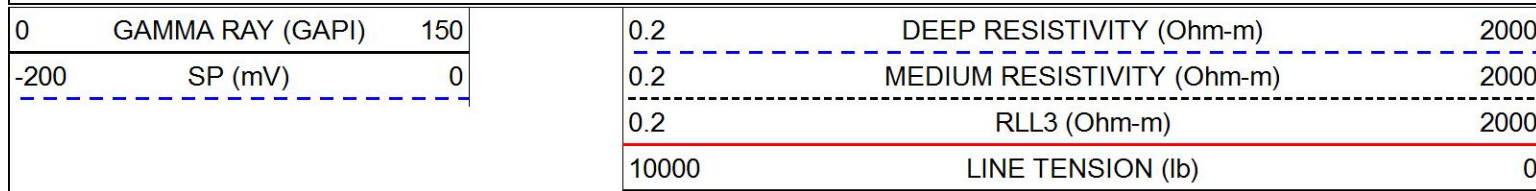
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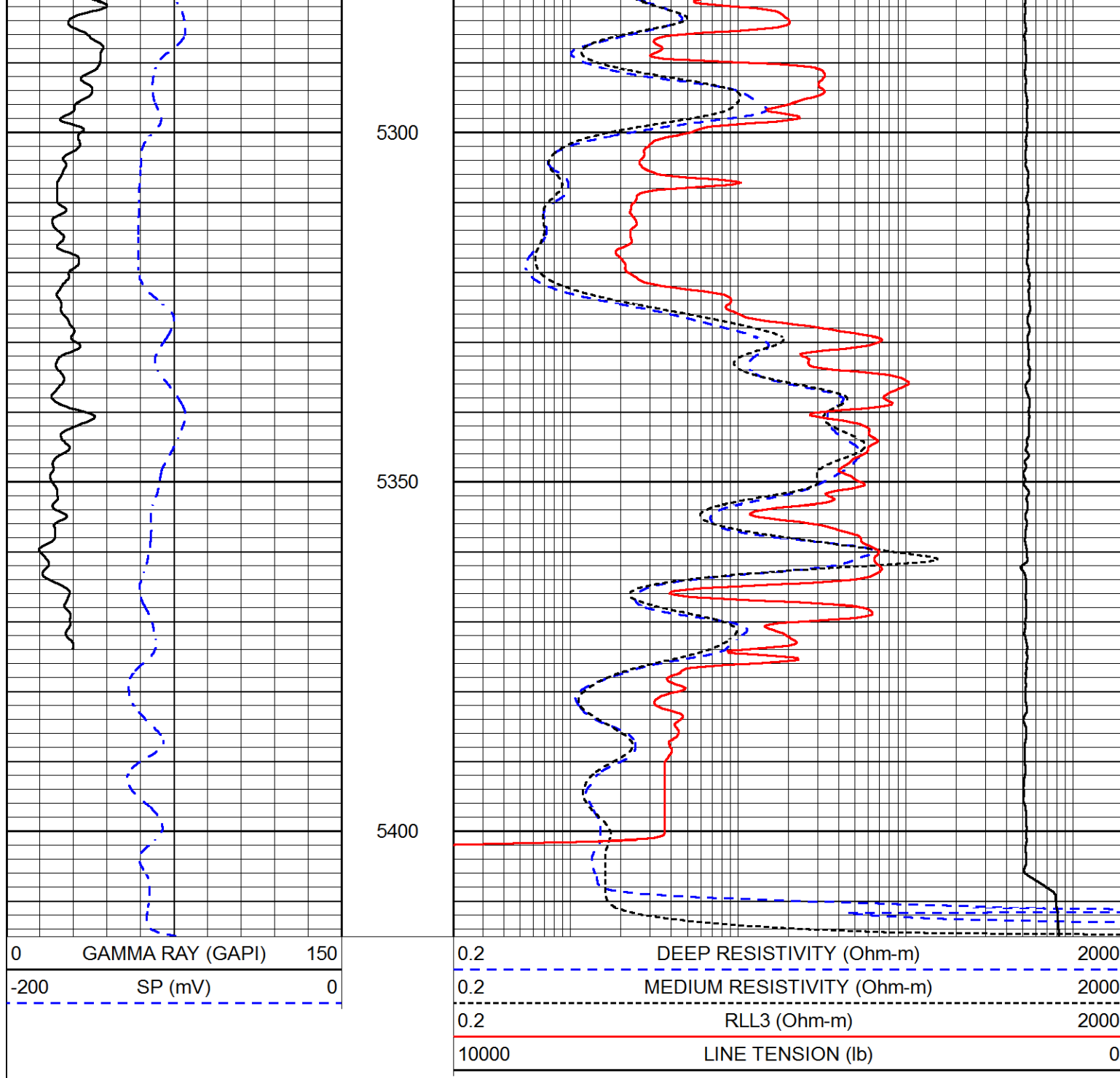




REPEAT SECTION

Database File vincent_swonger 3-4.db
 Dataset Pathname STKML/pass2.1
 Presentation Format _dil
 Dataset Creation Fri Jul 10 00:19:39 2020
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File vincent_swonger 3-4.db
 Dataset Pathname STKML/pass3.2
 Dataset Creation Thu Jul 09 23:01:09 2020

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
 Calibration Performed: Sun Jun 28 08:39:24 2020

Readings

References

Results

Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-30.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-28.000

Microlog Calibration Report

Serial-Model:
Performed:PSI-01-PSIML
Tue Jun 16 01:32:04 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	18500.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-0.8000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5250

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:817-947-M&W
16955B / 2ci
Tue Sep 24 21:18:50 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.685	g/cc	1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.534		
	Size		Reading		
Small Ring	4.50	in	1.02		
Large Ring	14.50	in	1.23		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

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: 233-M&W
Tool Model: M&W
Calibration Performed: Fri Feb 07 01:42:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps

Company VINCENT OIL COMPANY
Well SWONGER #3-4

PIONEER

Pioneer Energy Services

Field

MULBERRY CREEK

County

FORD

State

KANSAS