



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company **MERIT ENERGY CORP., LLC**
Well **WENU #701**
Field **EUBANK NORTH**
County **HASKELL** State **KANSAS**

Location: API #: 15-081-22208-00-00

Other Services

SEC 9 TWP 28S RGE 34W
813' FNL & 1986' FEL

CNL/CDL
MEL/BHCS

Permanent Datum GROUND LEVEL Elevation 3064'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3076'
D.F. N/A
G.L. 3064'

Date	12/5/2019
Run Number	ONE
Depth Driller	5600'
Depth Logger	5602'
Bottom Logged Interval	5601'
Top Log Interval	1750'
Casing Driller	8.625" @ 1763'
Casing Logger	1758'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	1600
Density / Viscosity	9.0 58
pH / Fluid Loss	10.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.30 @ 71
Rmt @ Meas. Temp	.98 @ 71
Rmc @ Meas. Temp	1.76 @ 71
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.70 @ 132
Operating Rig Time	5 HOURS
Max Rec. Temp. F	134 DEGF
Equipment Number	P-108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	RODNEY GONZALEZ

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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.

GARDEN CITY KANSAS
SOUTH TO 50 RD, 10 WEST TO CC RD, 3 SOUTH TO 80 RD,
1/2 EAST, SOUTH INTO

Log Measured From: KELLY BUSHING 12 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

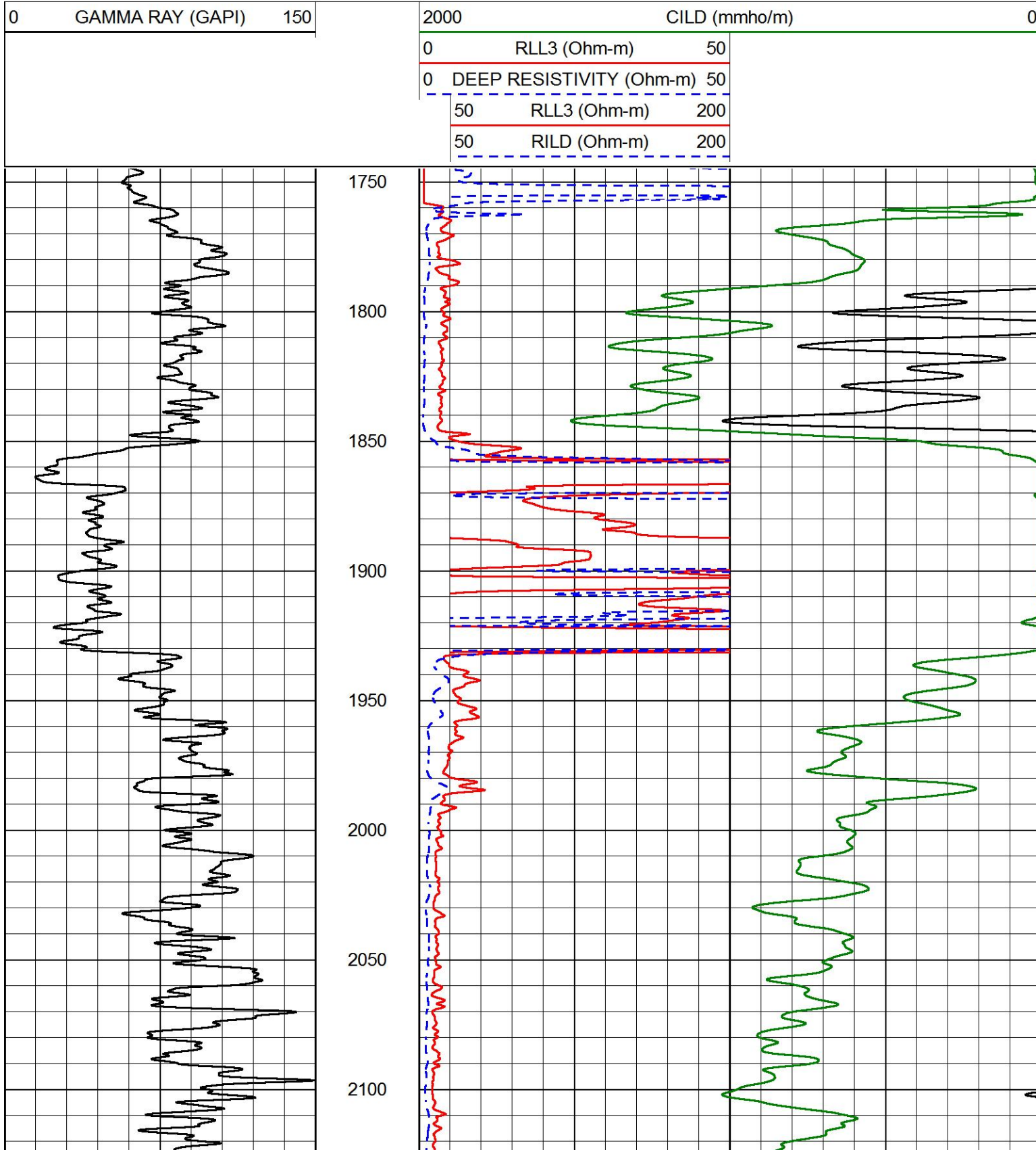
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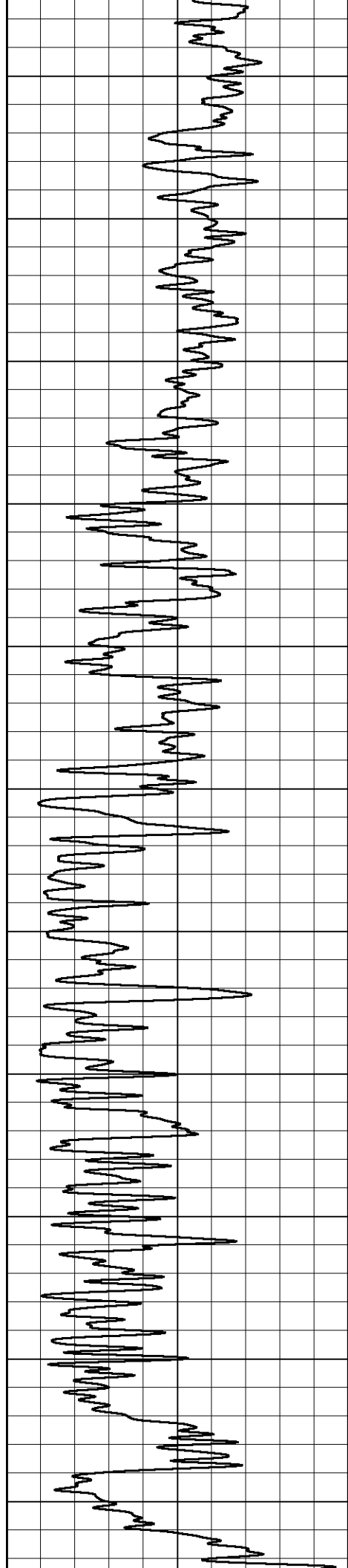
Primary Witness: RODNEY GONZALEZ
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	44.50			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	41.40 40.65			CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	32.35 32.33 31.85			CDL-M&W (979-229)	8.50	4.00	250.00
MCAL MI MN	20.87 20.87 20.87			ML-PSI UDM ML (UDM-01) Stackable Microlog Tools	11.50	4.00	215.00
RLL3 RLL3F	15.80 15.79			DIL-M&W (55-222)	18.50	3.50	220.00
CILD	8.00						
CILM	4.70						
SP	0.20						
		Dataset:	merit_wenu_701.db: field/well/stackml/pass3.1				
		Total length:	47.00 ft				
		Total weight:	835.00 lb				
		O.D.:	4.00 in				

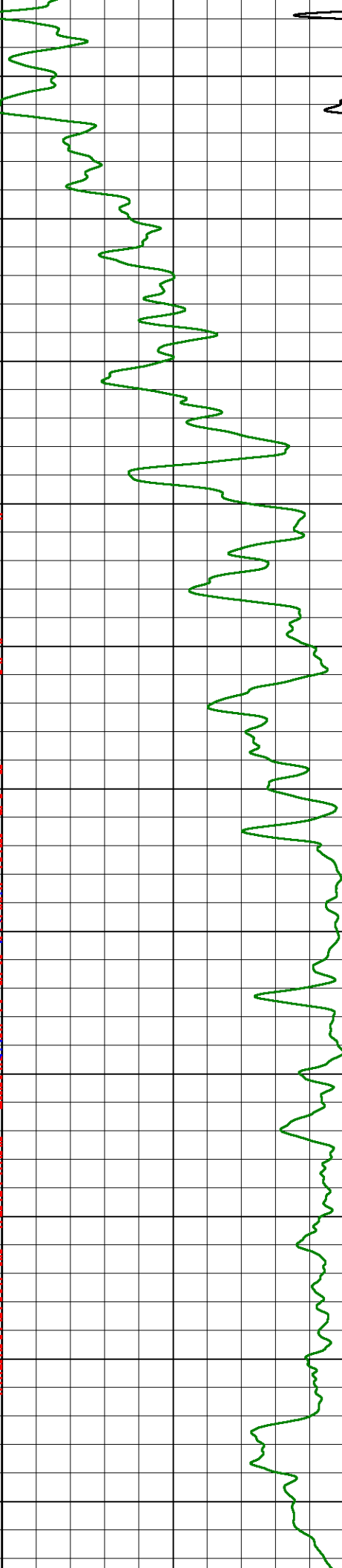
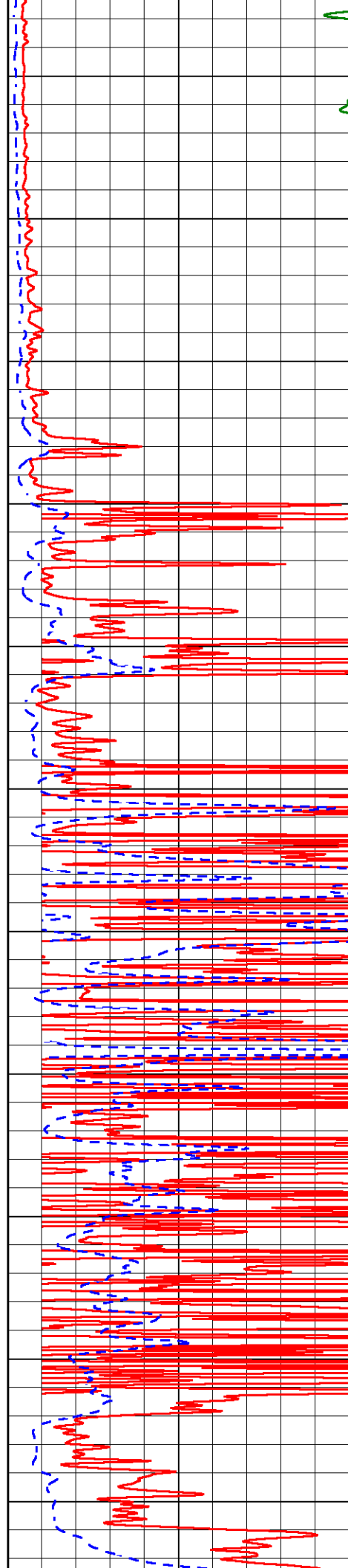
MAIN PASS

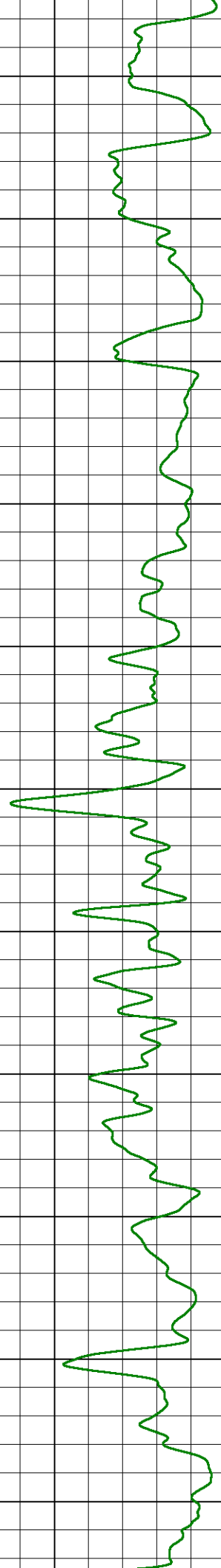
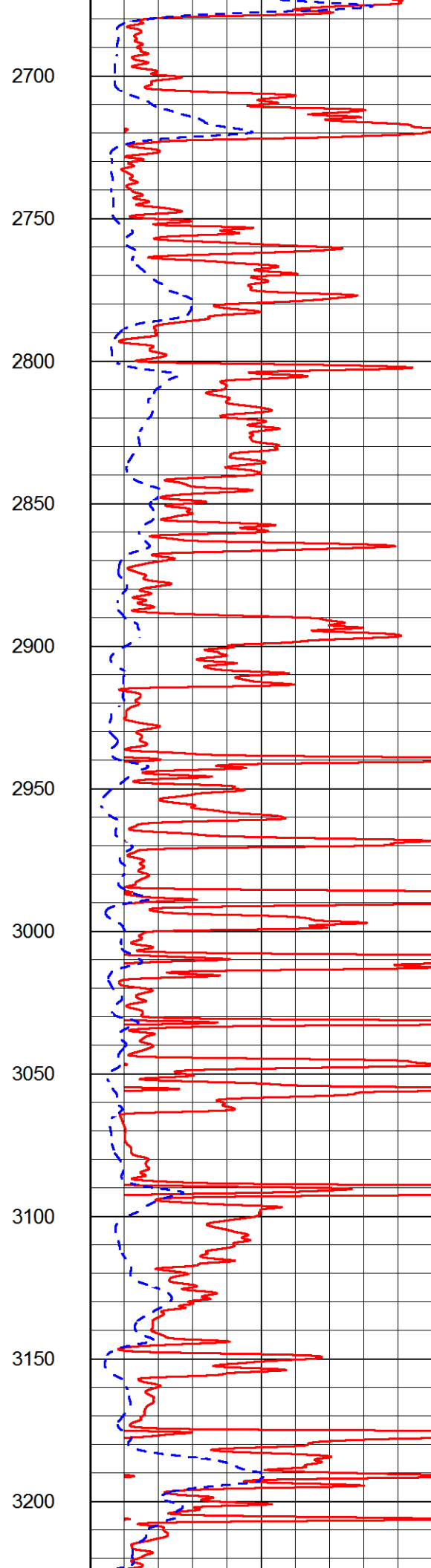
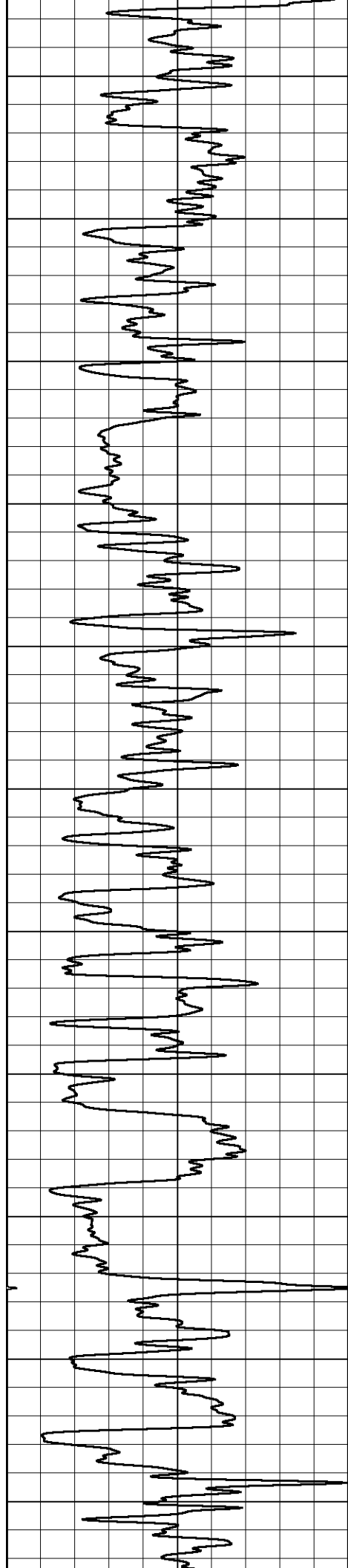
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 Dataset Pathname stackml/pass3.1
 Presentation Format dil2in
 Dataset Creation Fri Dec 06 00:05:06 2019
 Charted by Depth in Feet scaled 1:600

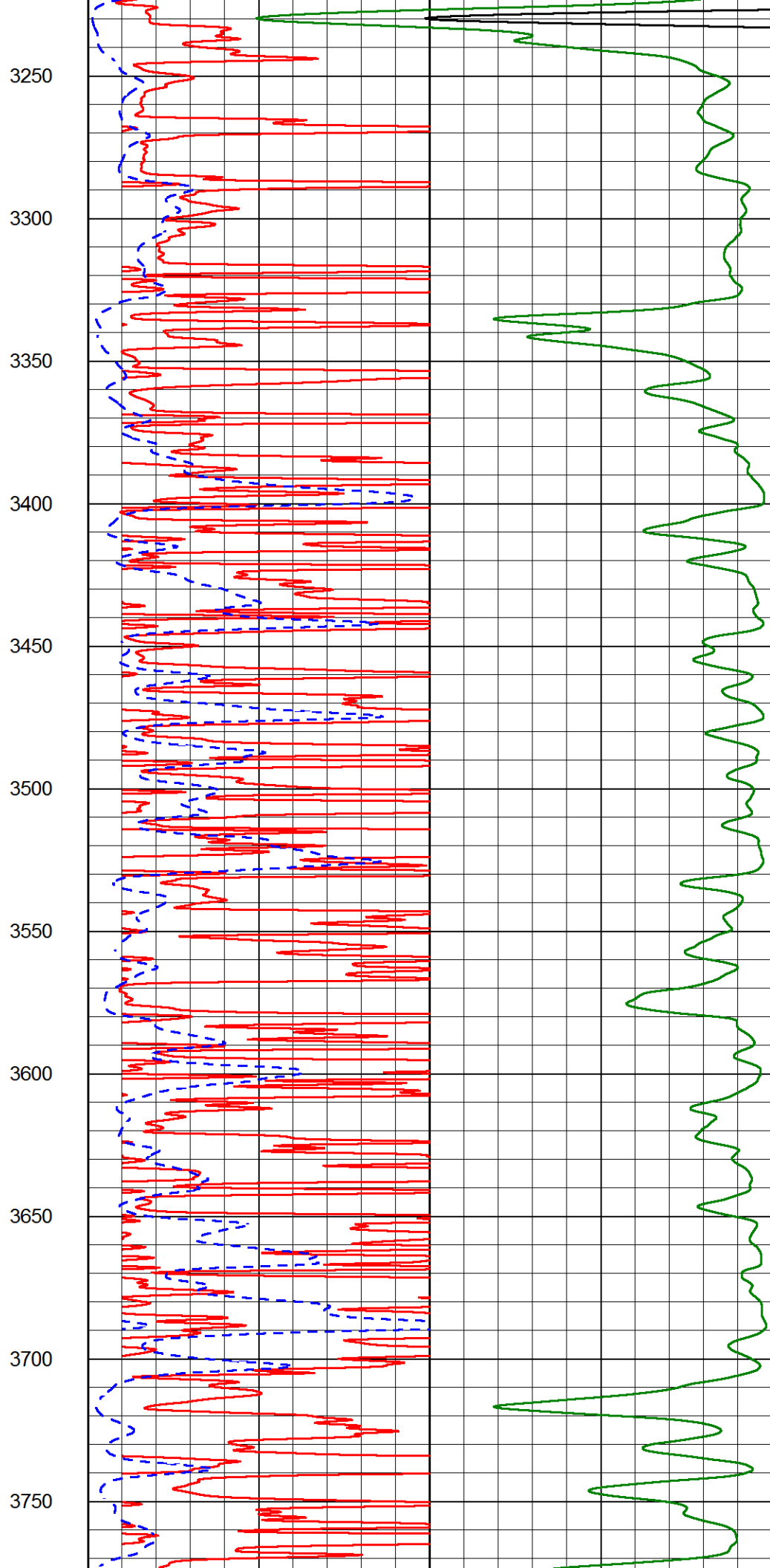
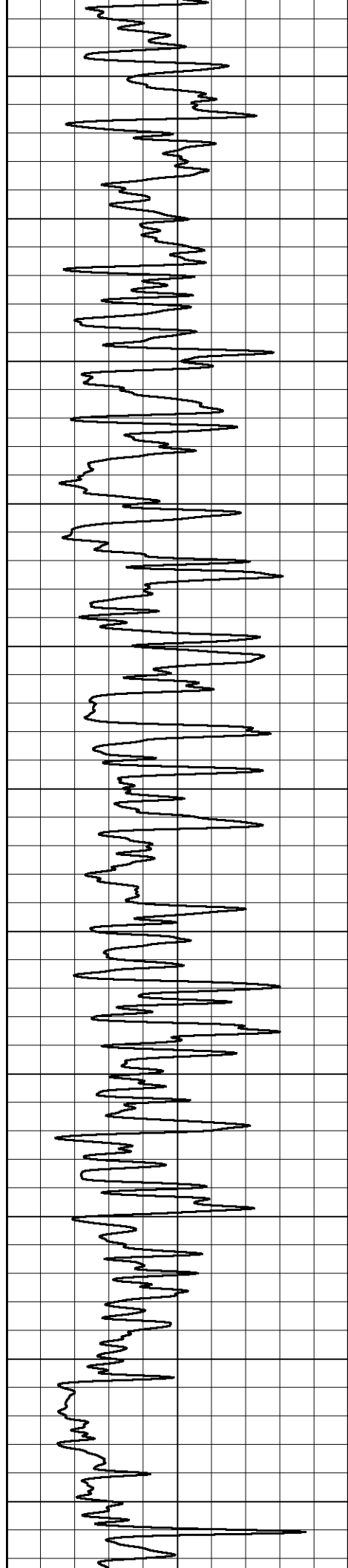


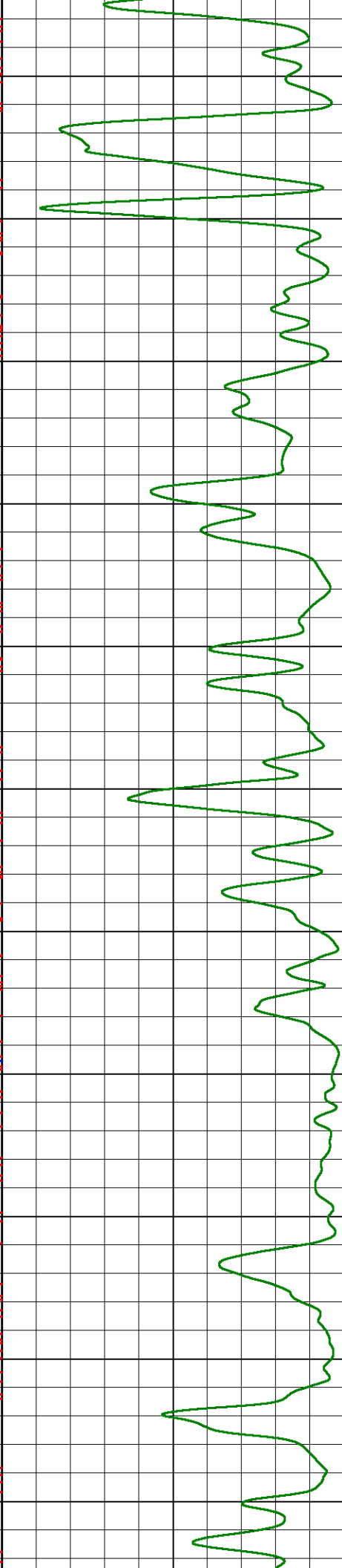
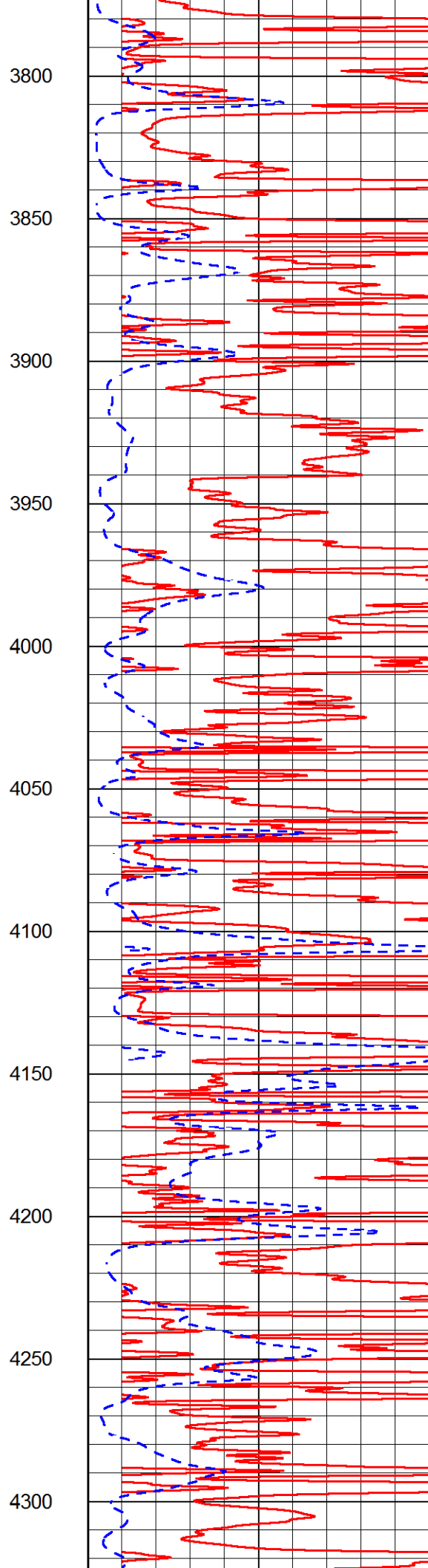
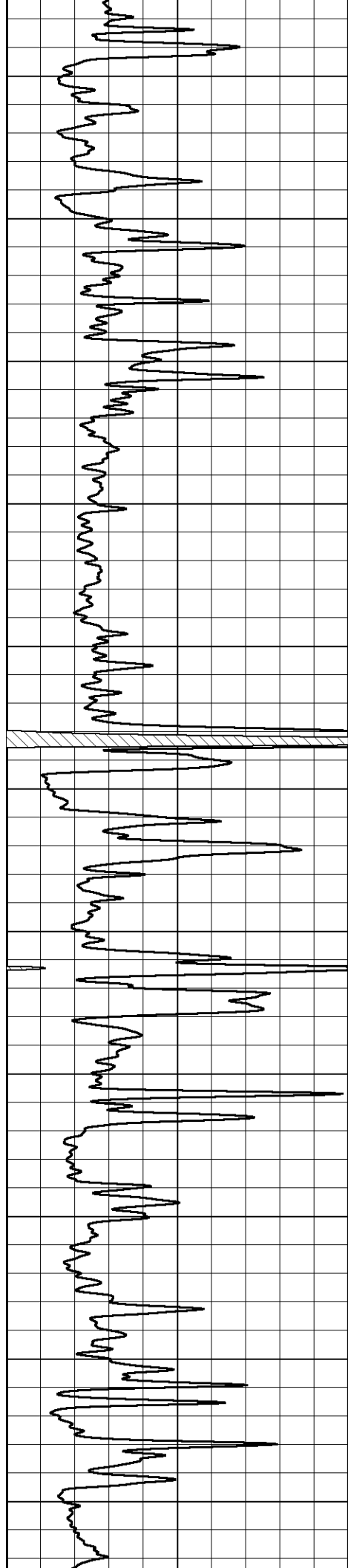


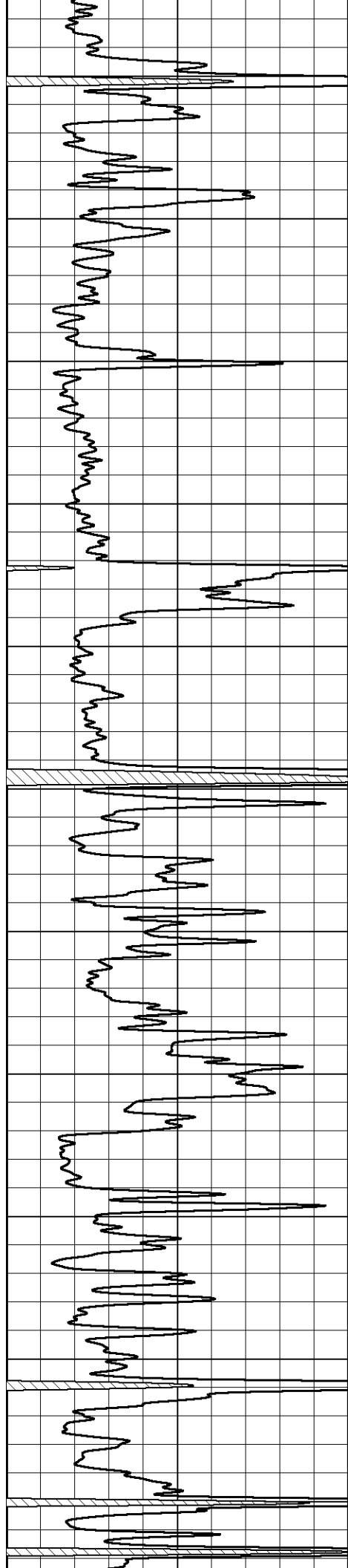
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2200
2250
2300
2350
2400
2450
2500
2550
2600
2650











4350

4400

4450

4500

4550

4600

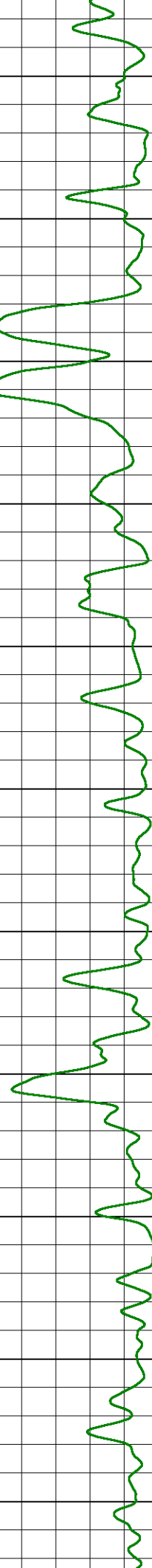
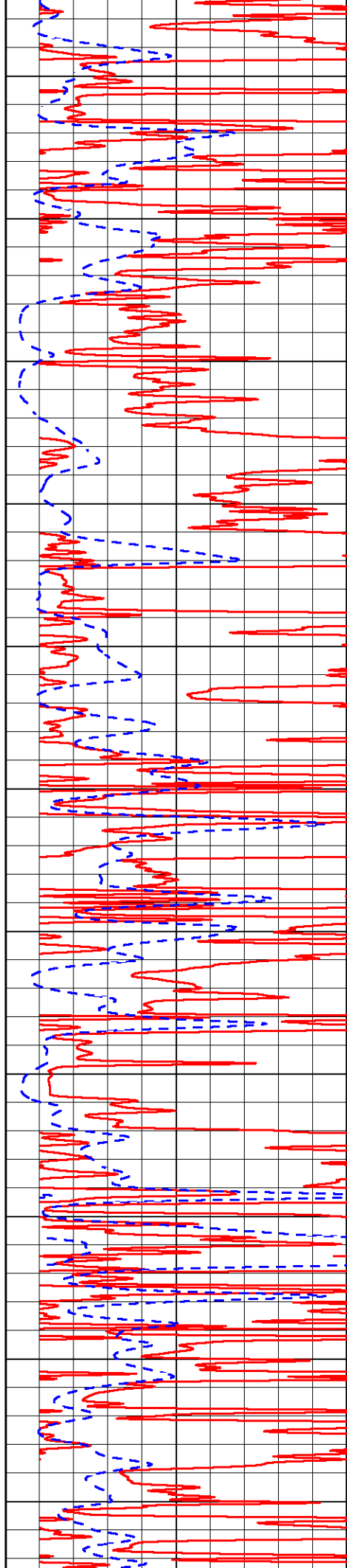
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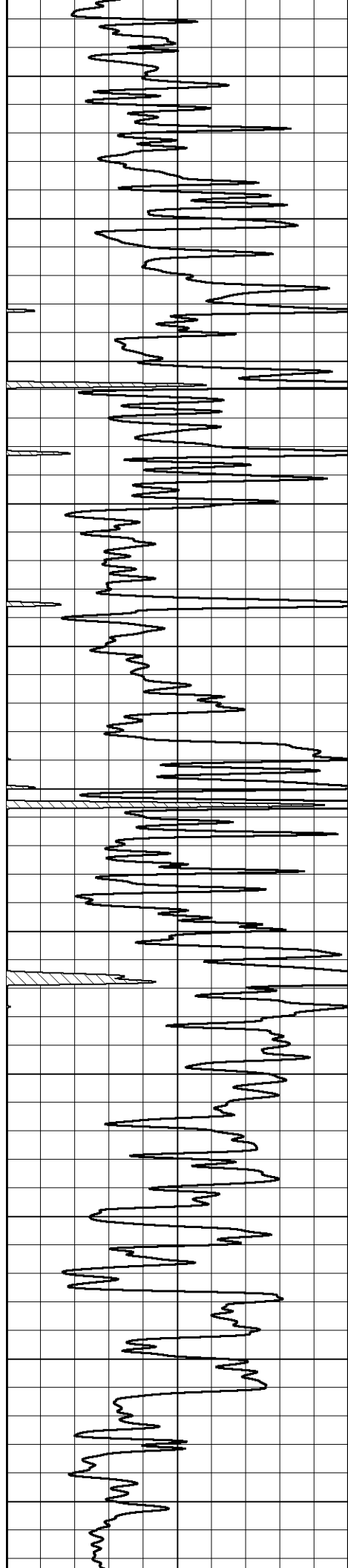
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4900

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5000

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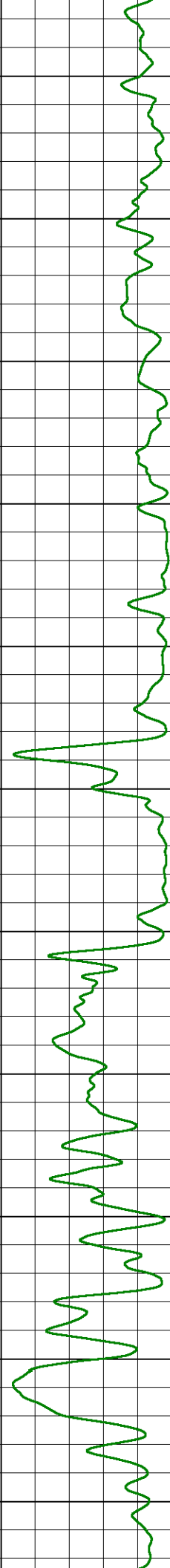
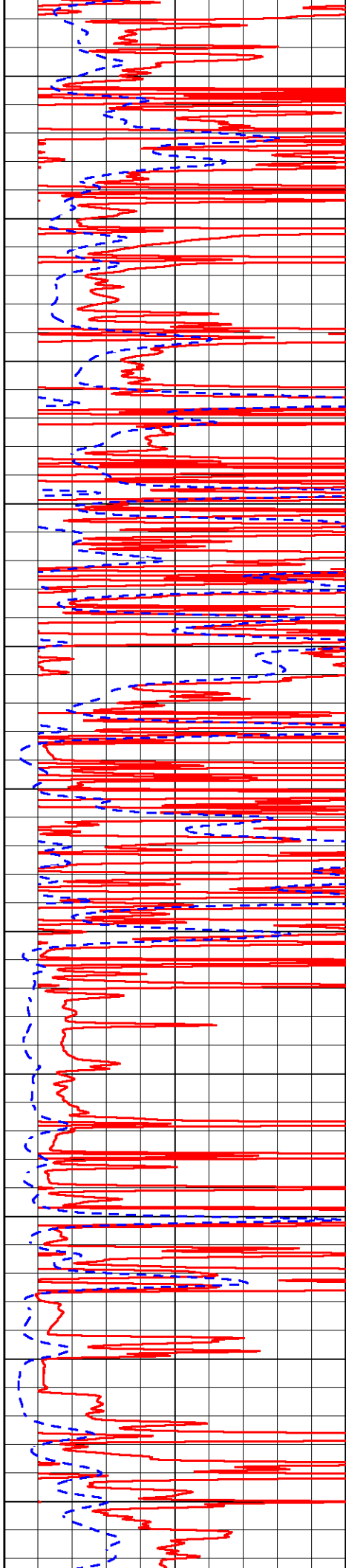
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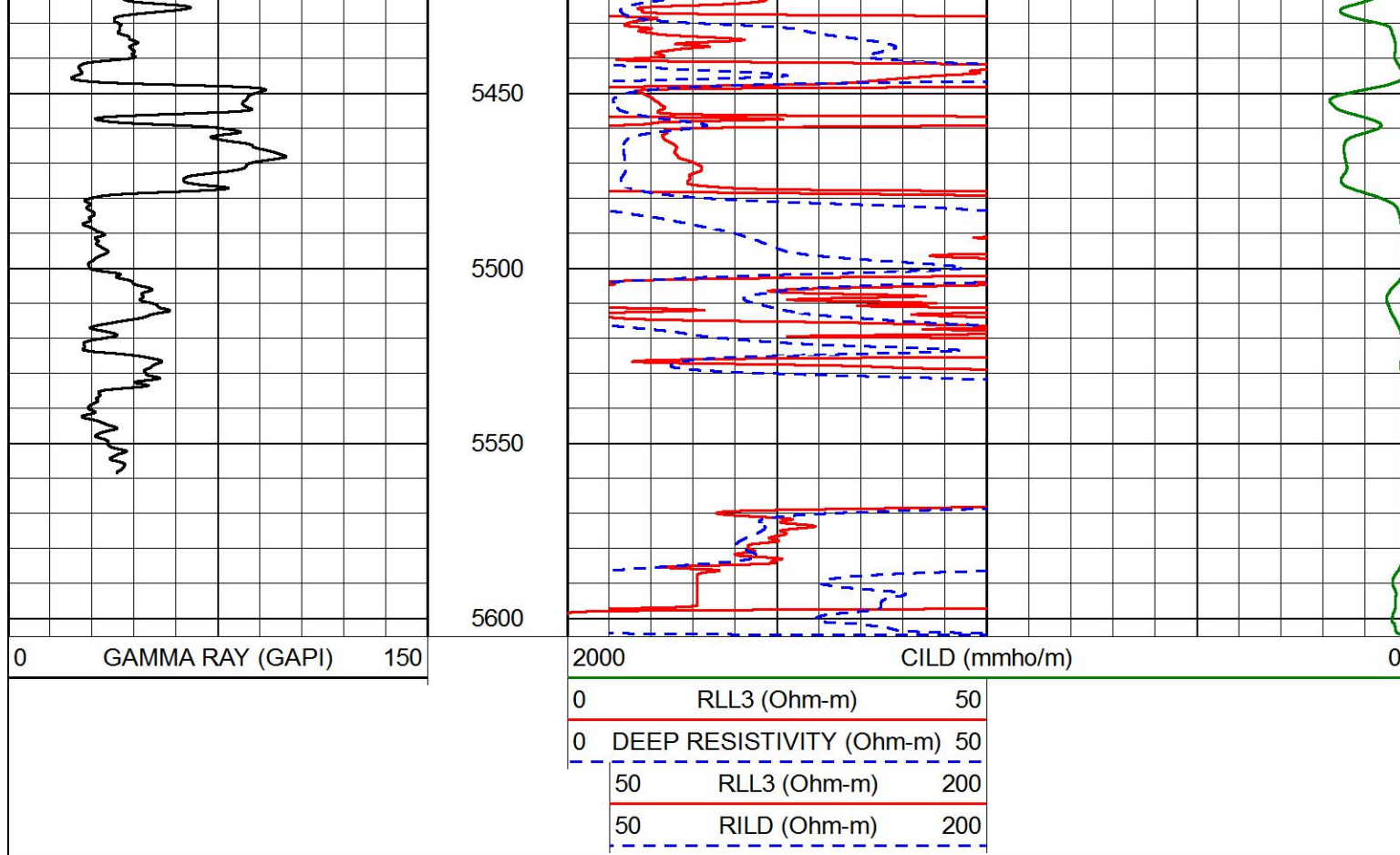
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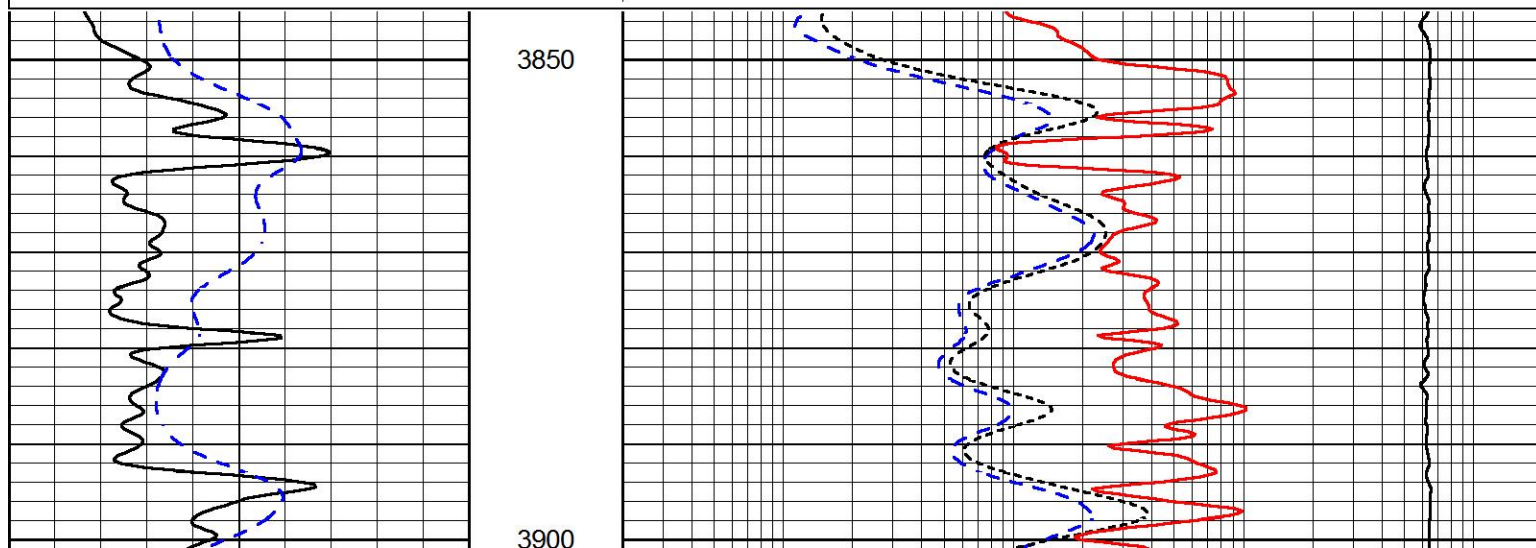
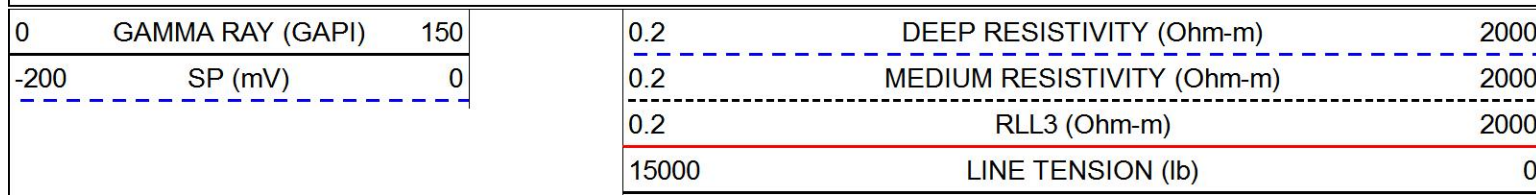
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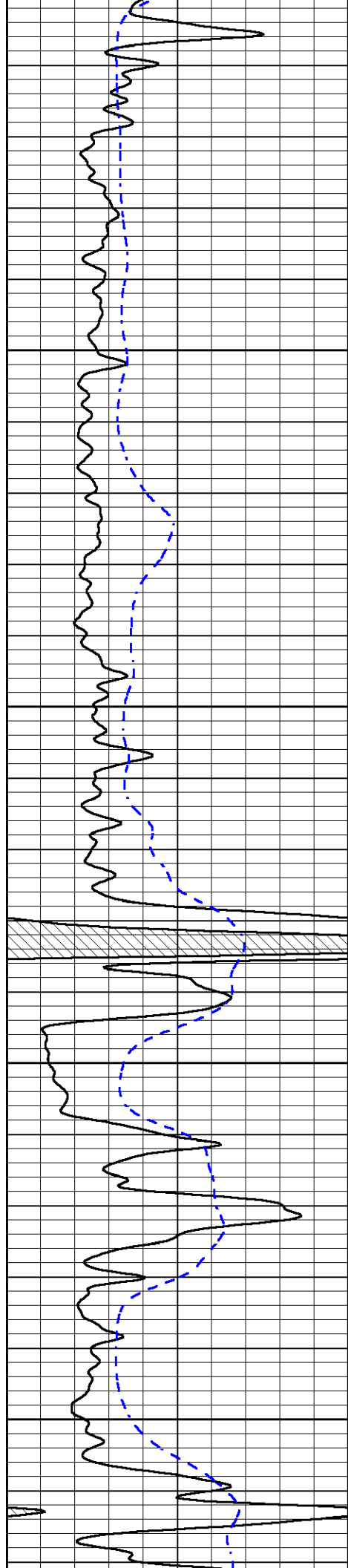




MAIN PASS

Database File merit_wenu_701.db
 Dataset Pathname stackml/pass3.1
 Presentation Format dil
 Dataset Creation Fri Dec 06 00:05:06 2019
 Charted by Depth in Feet scaled 1:240



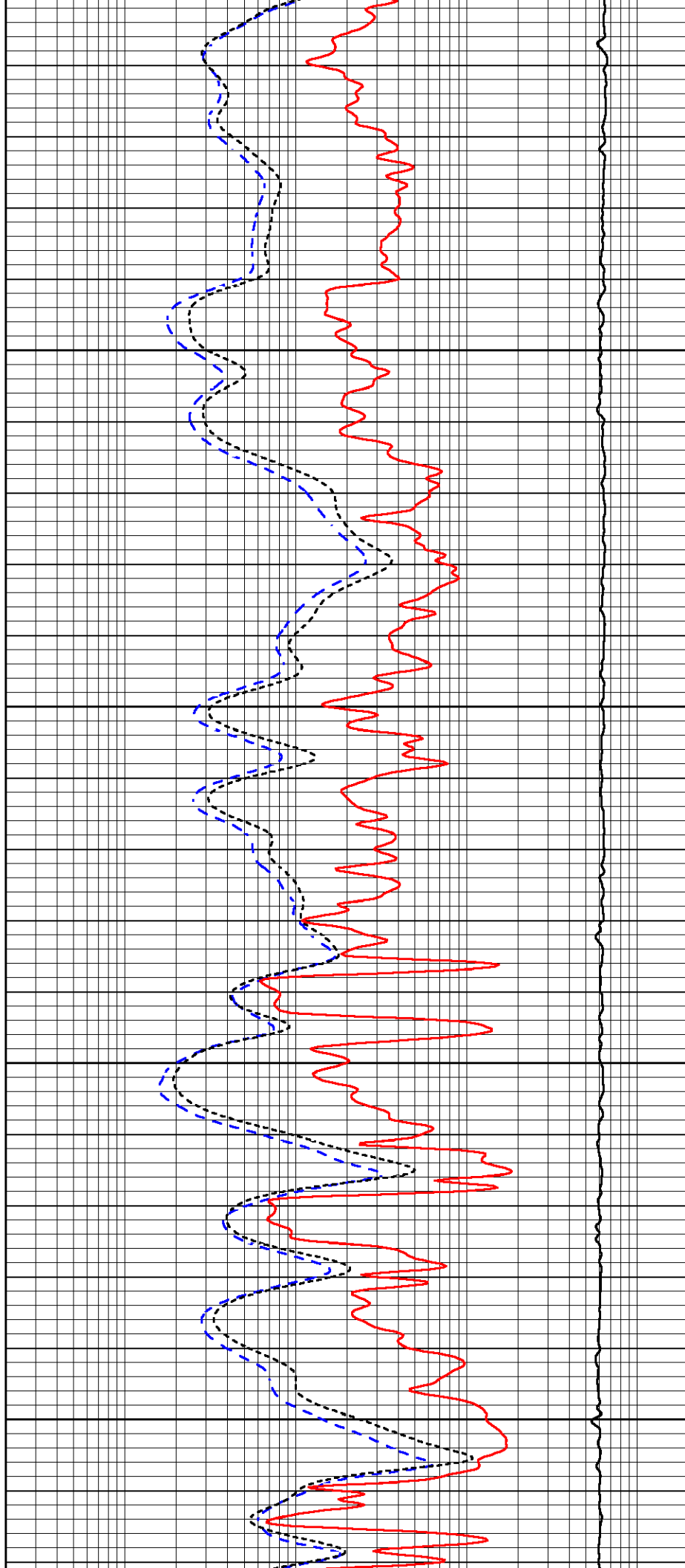


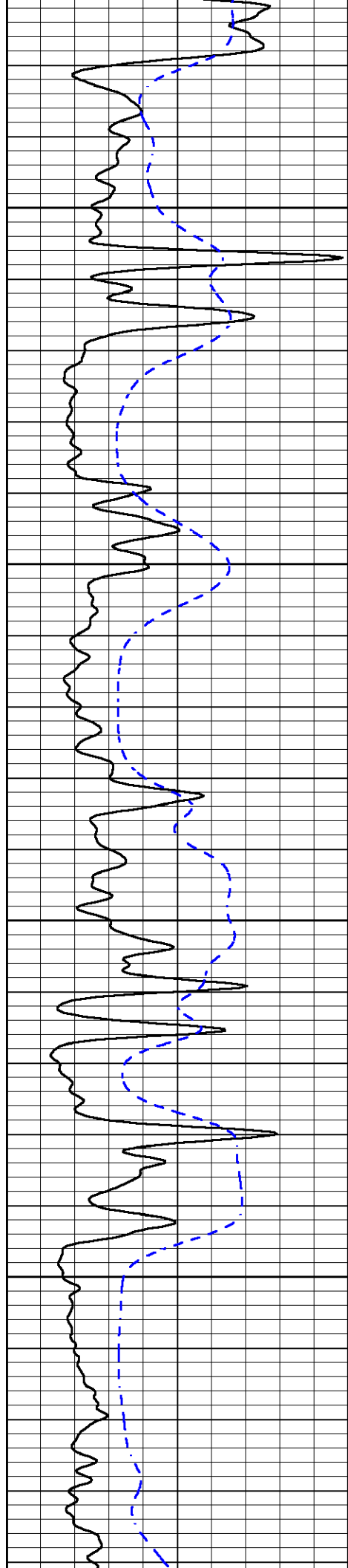
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4050

4100



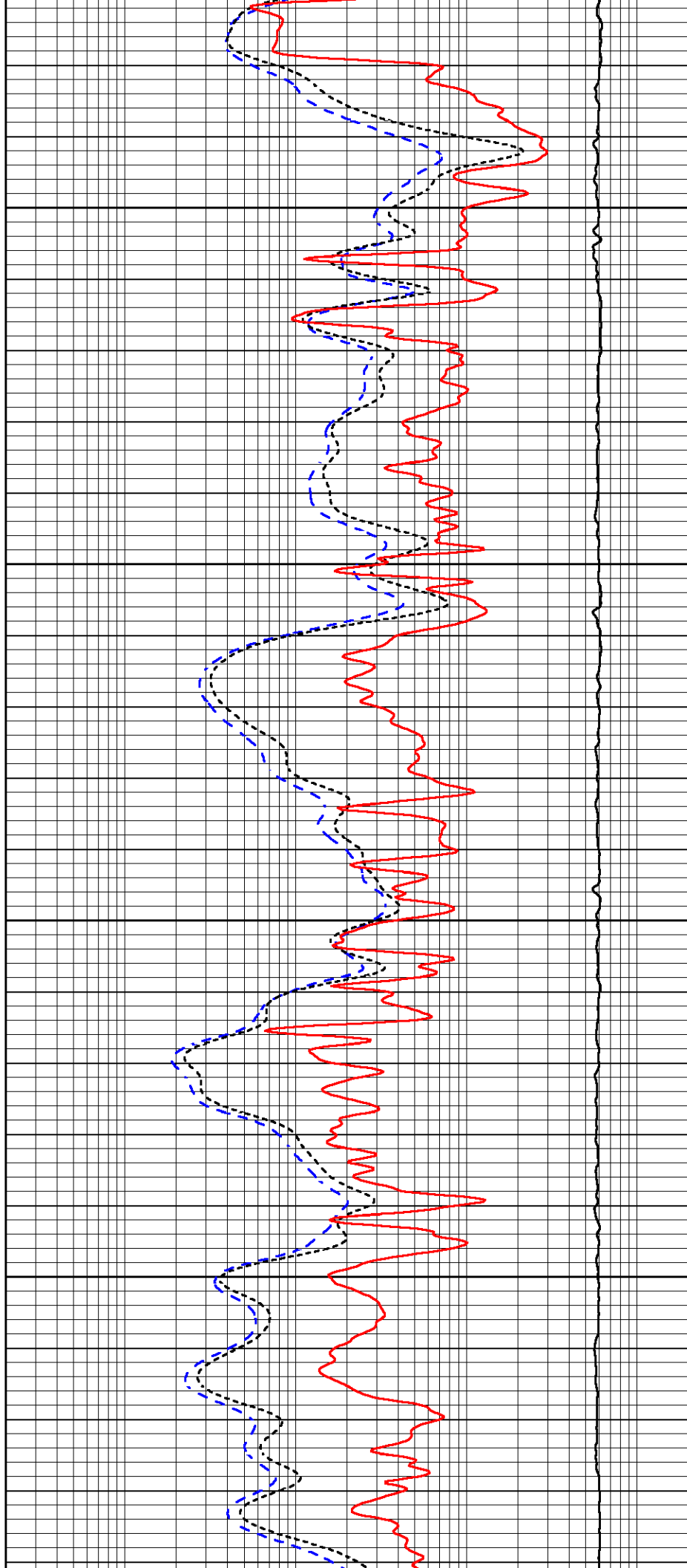


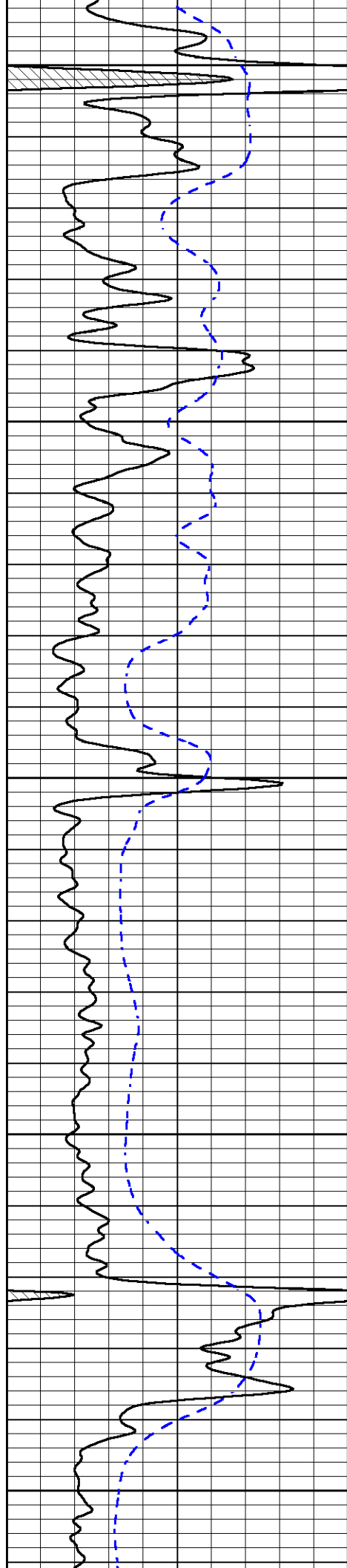
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4300





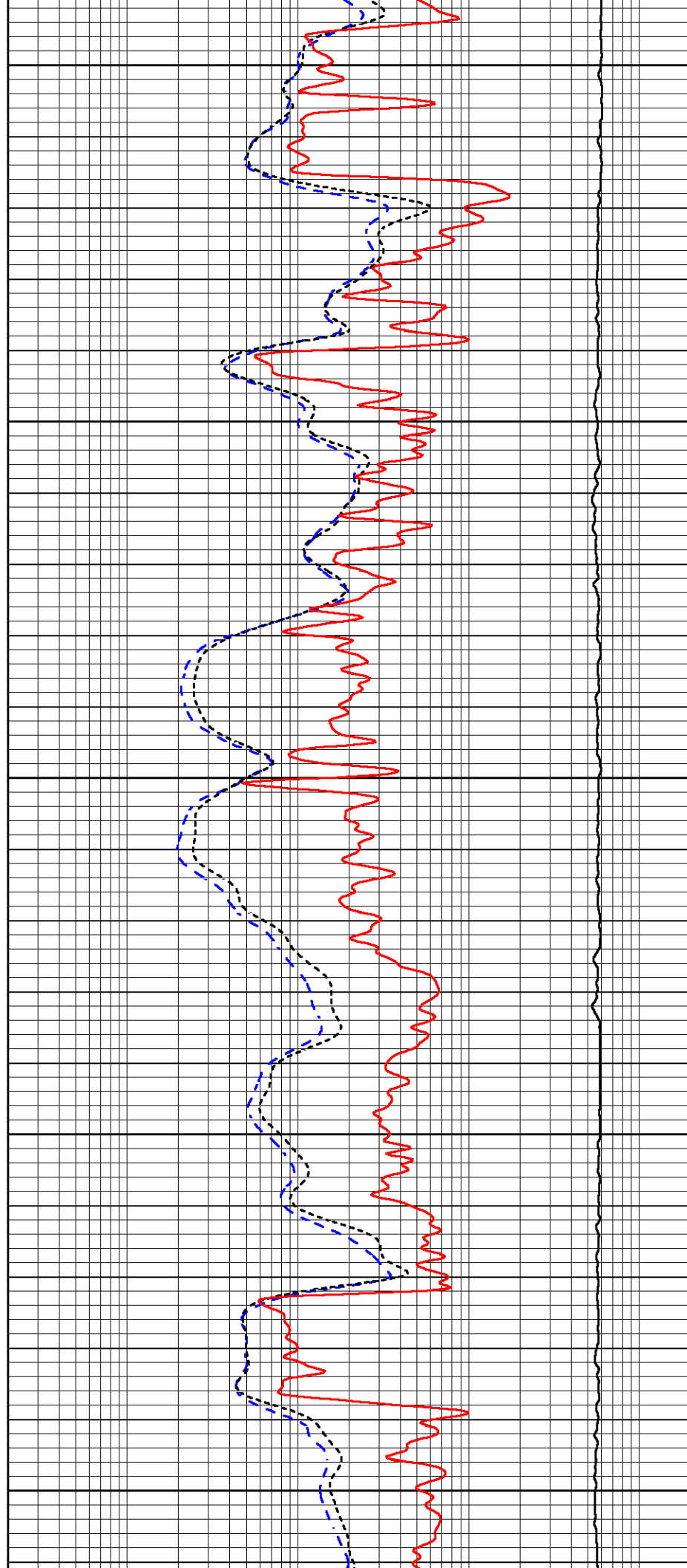
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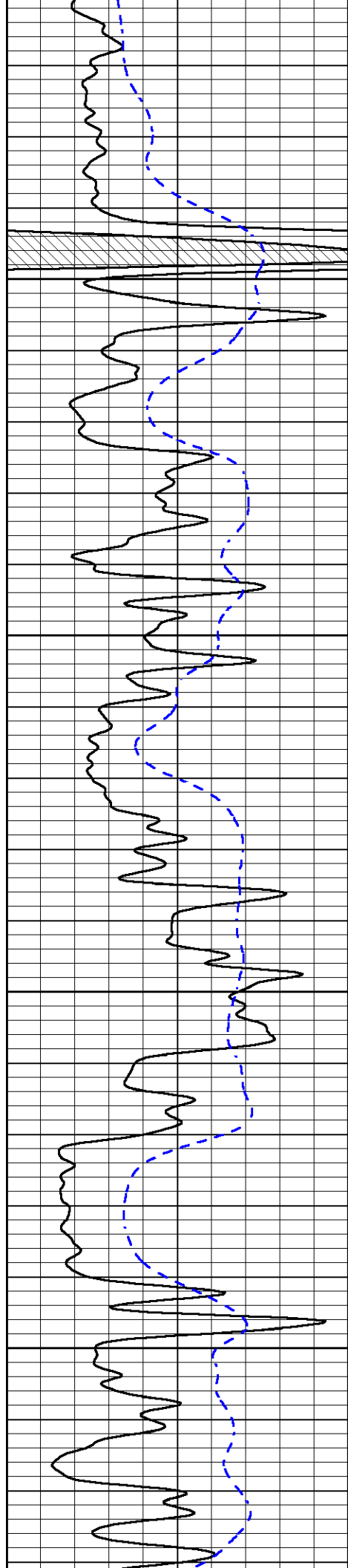
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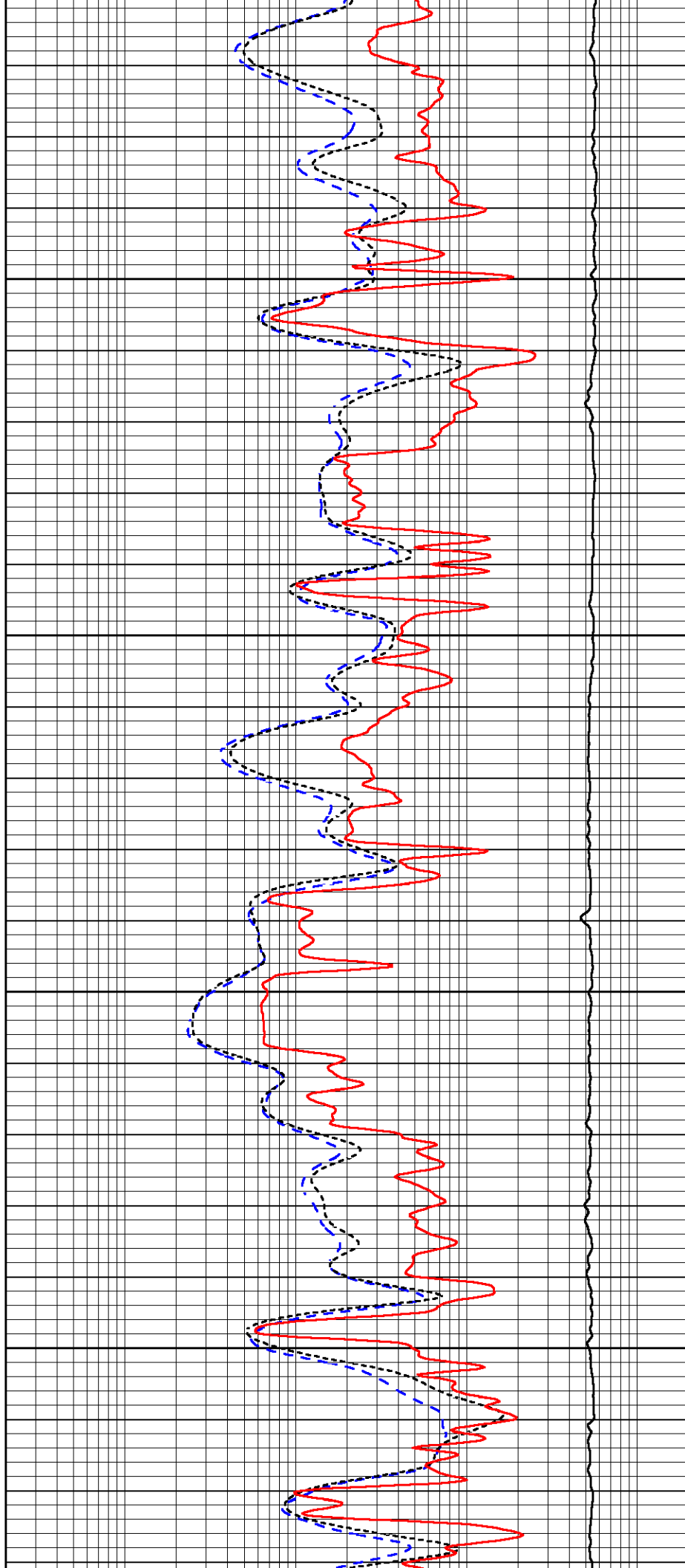


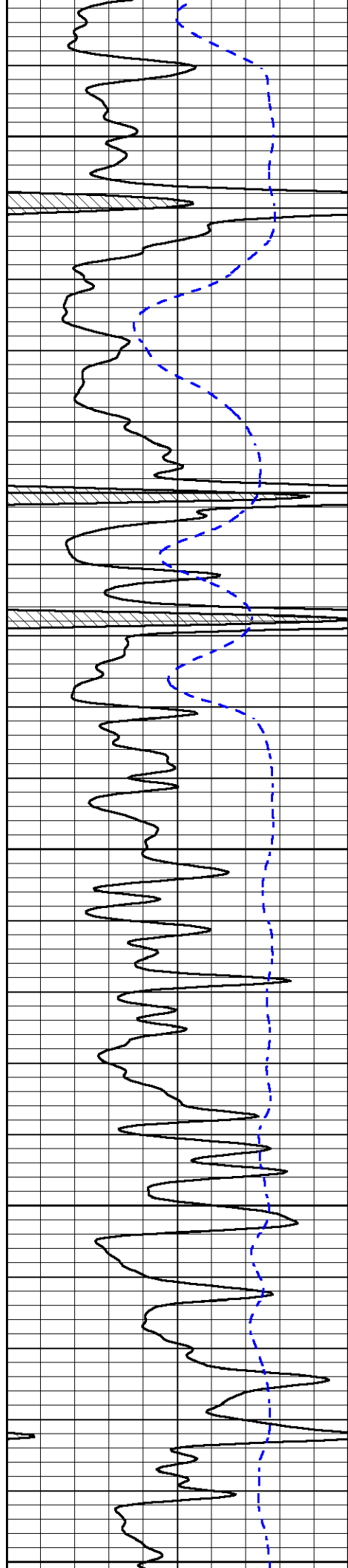
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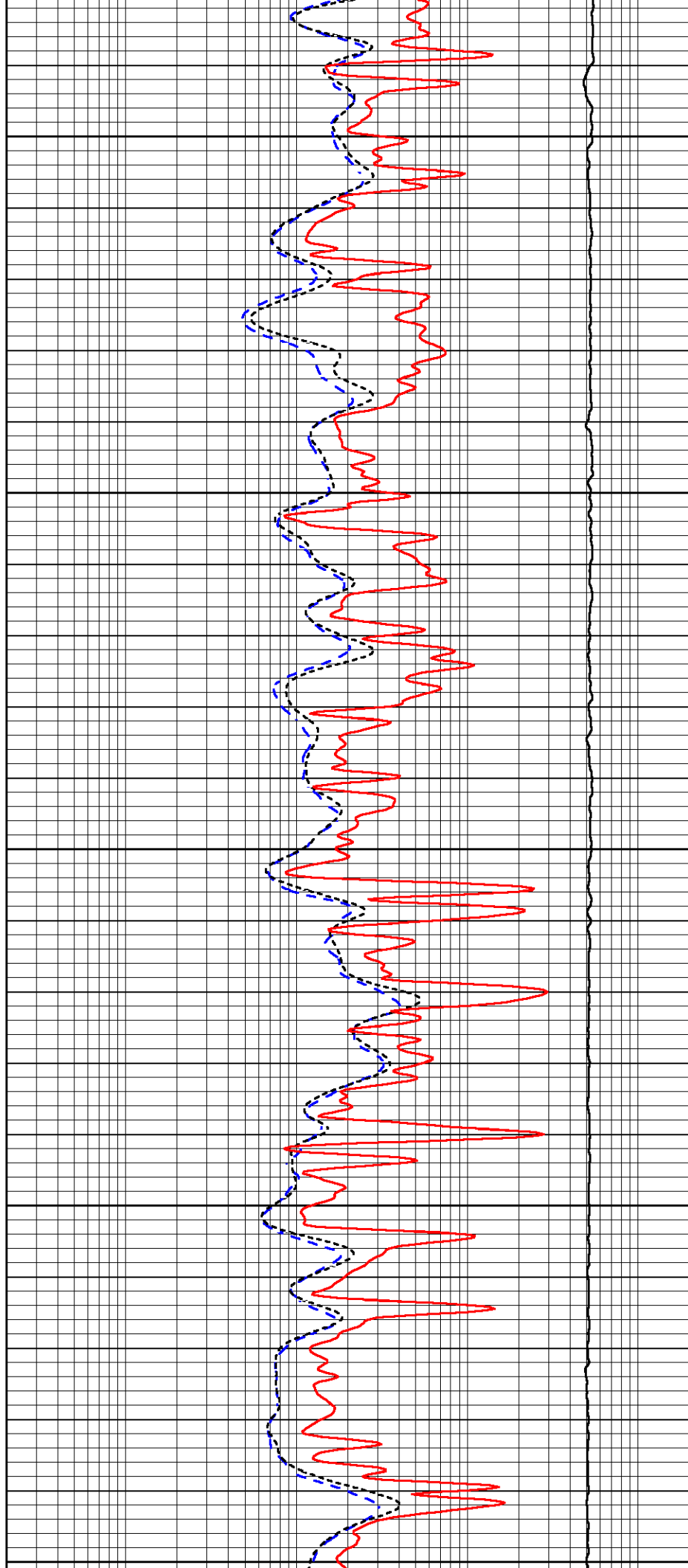
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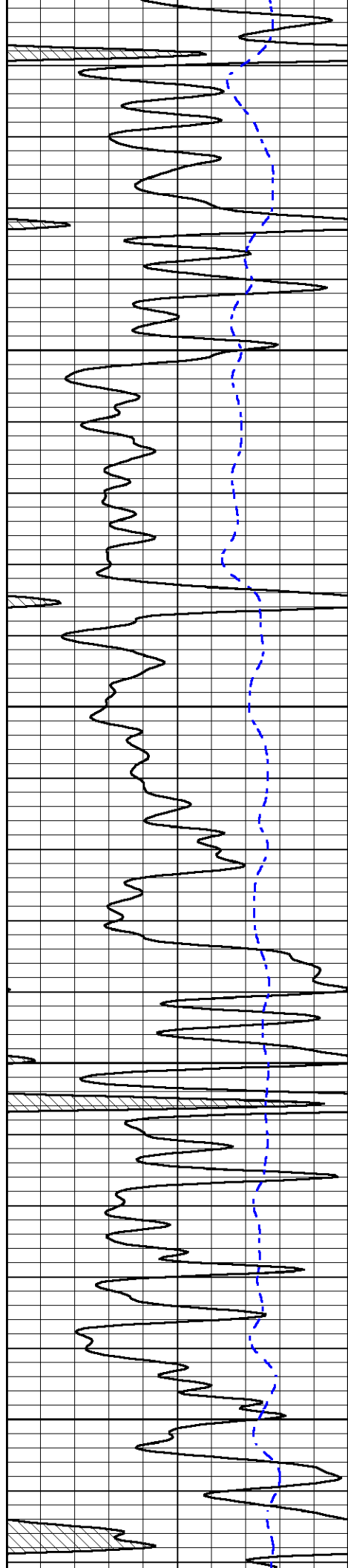
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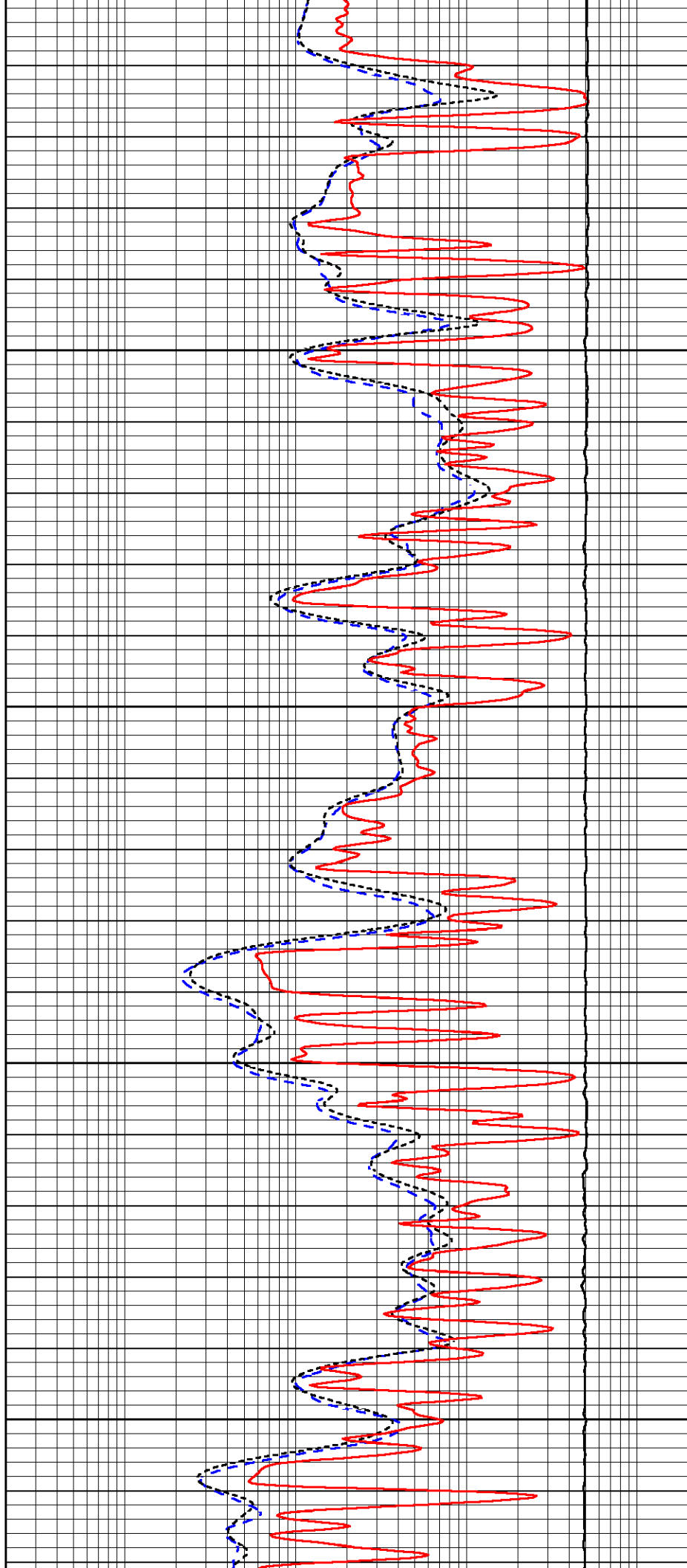


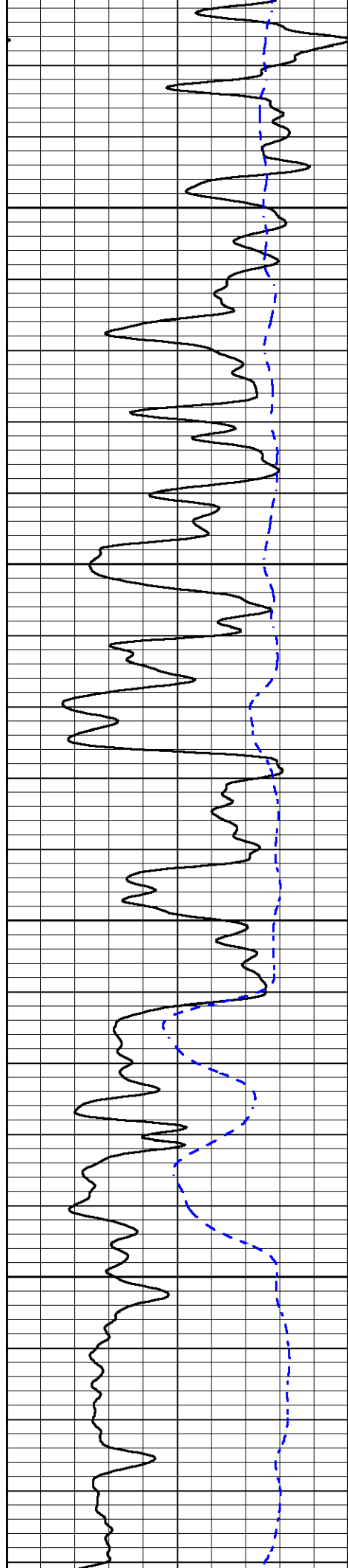
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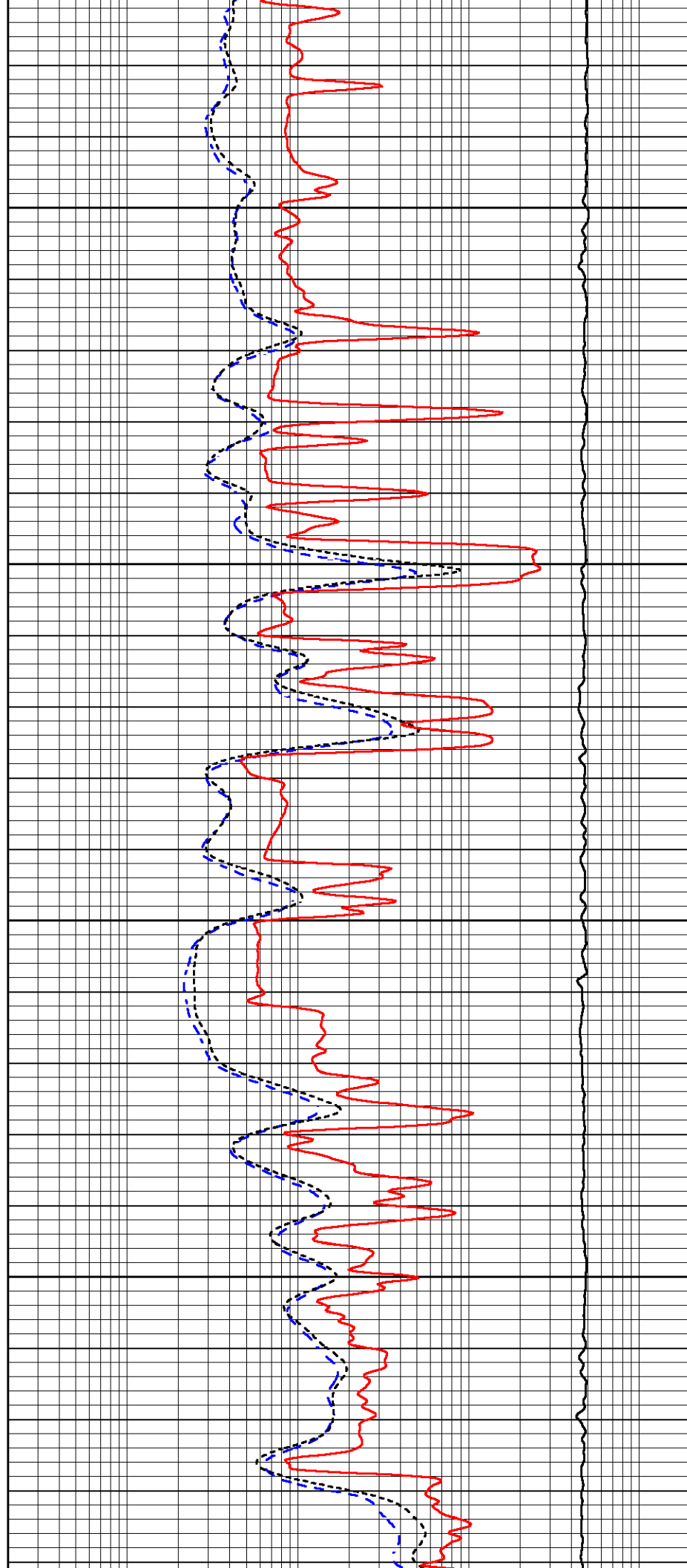


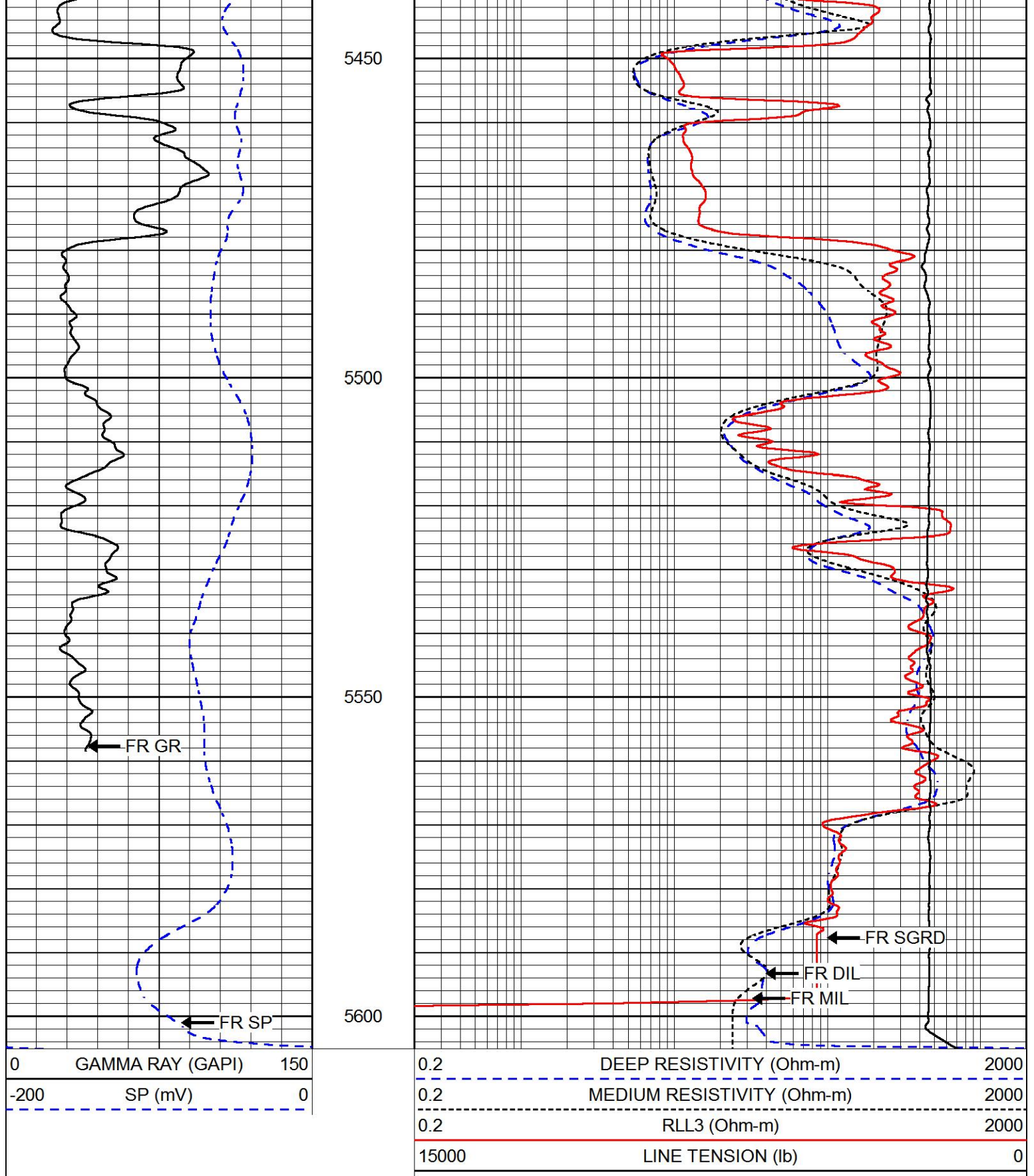
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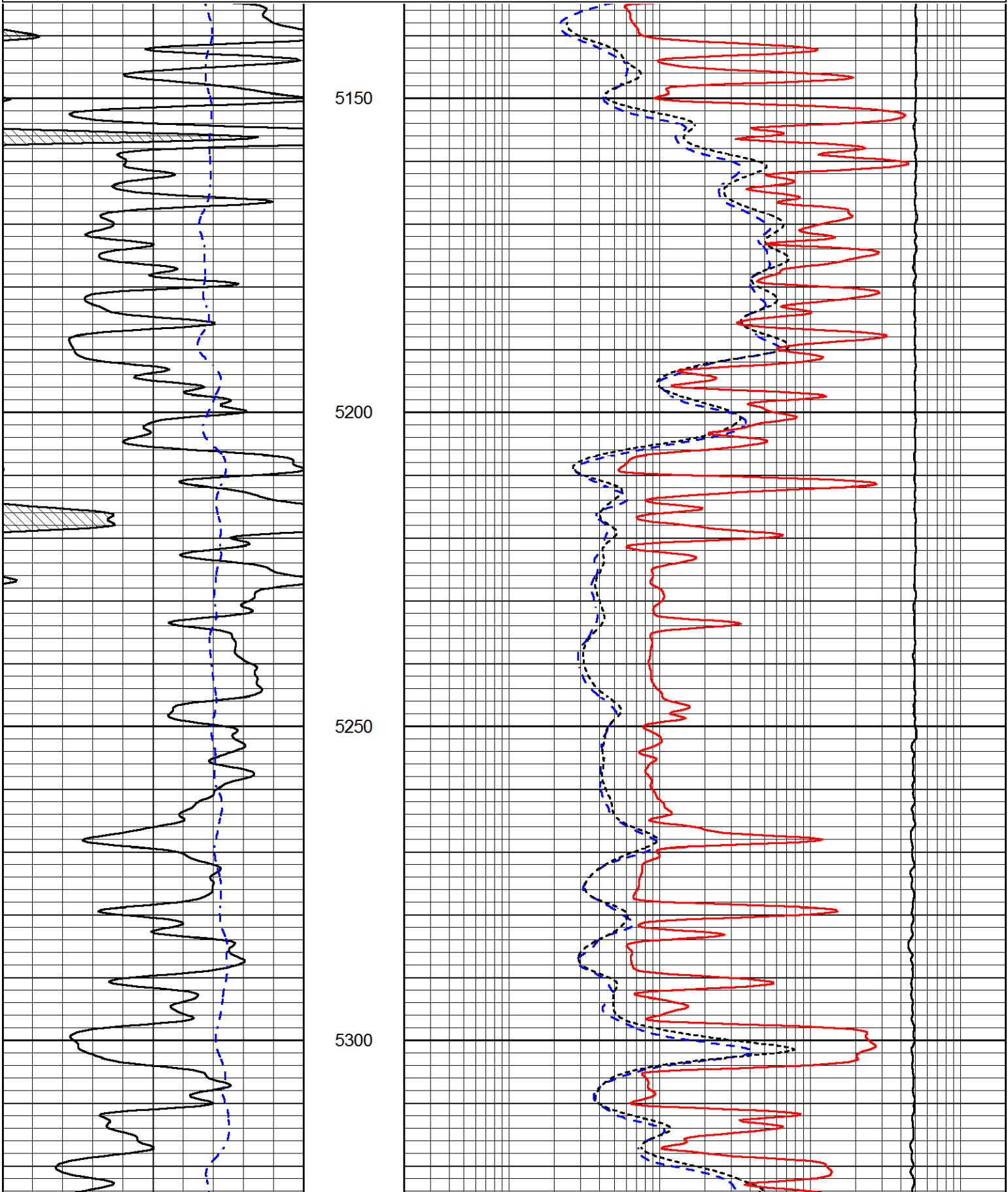


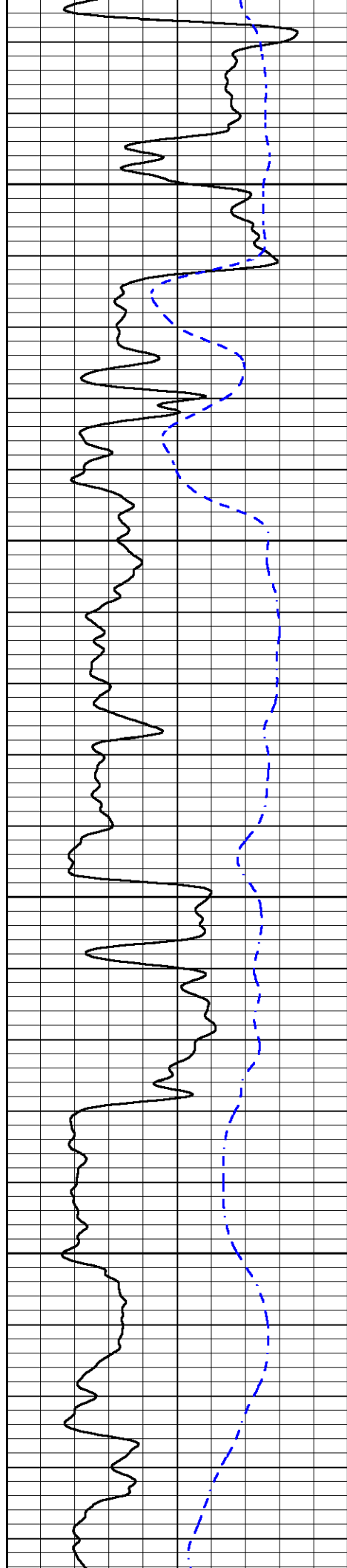
REPEAT SECTION

Database File merit_wenu_701.db
Dataset Pathname stackml/pass2.1
Presentation Format dil

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0



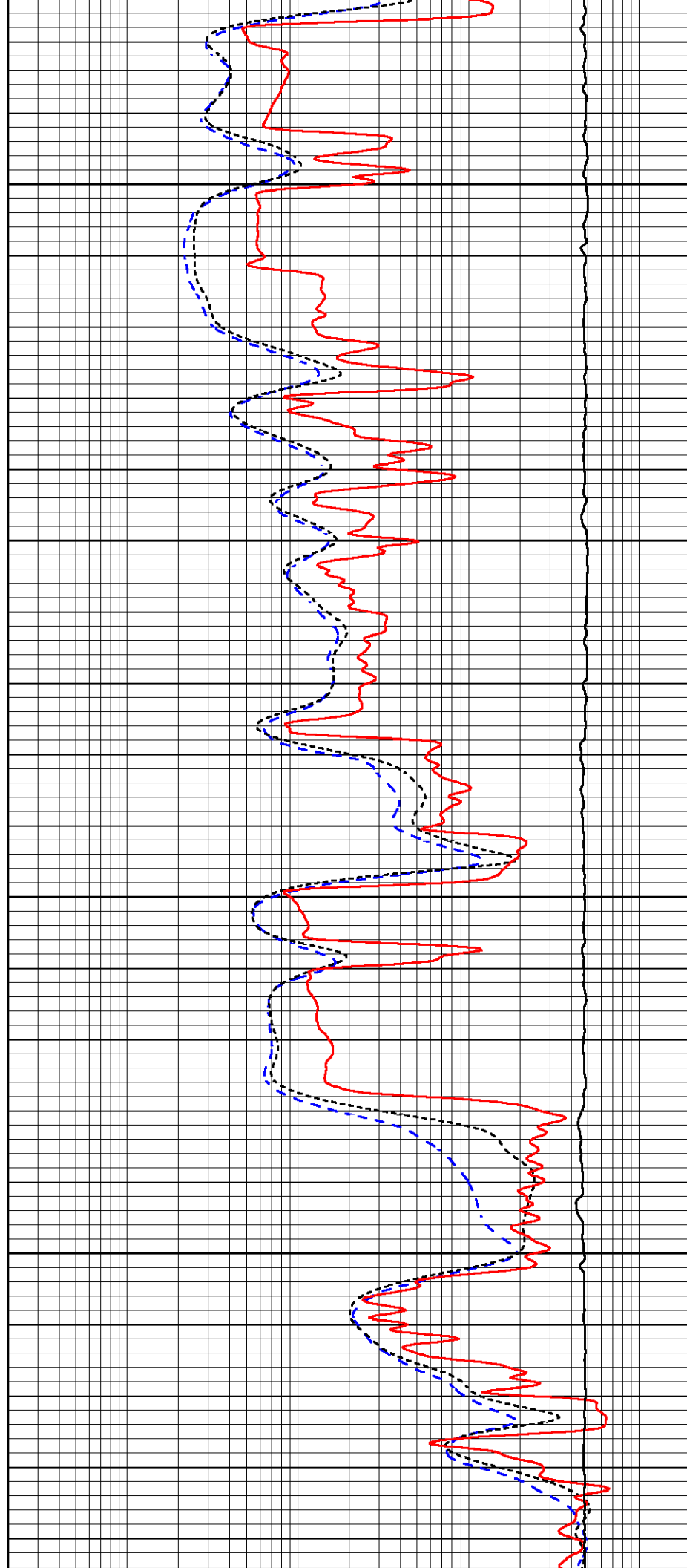


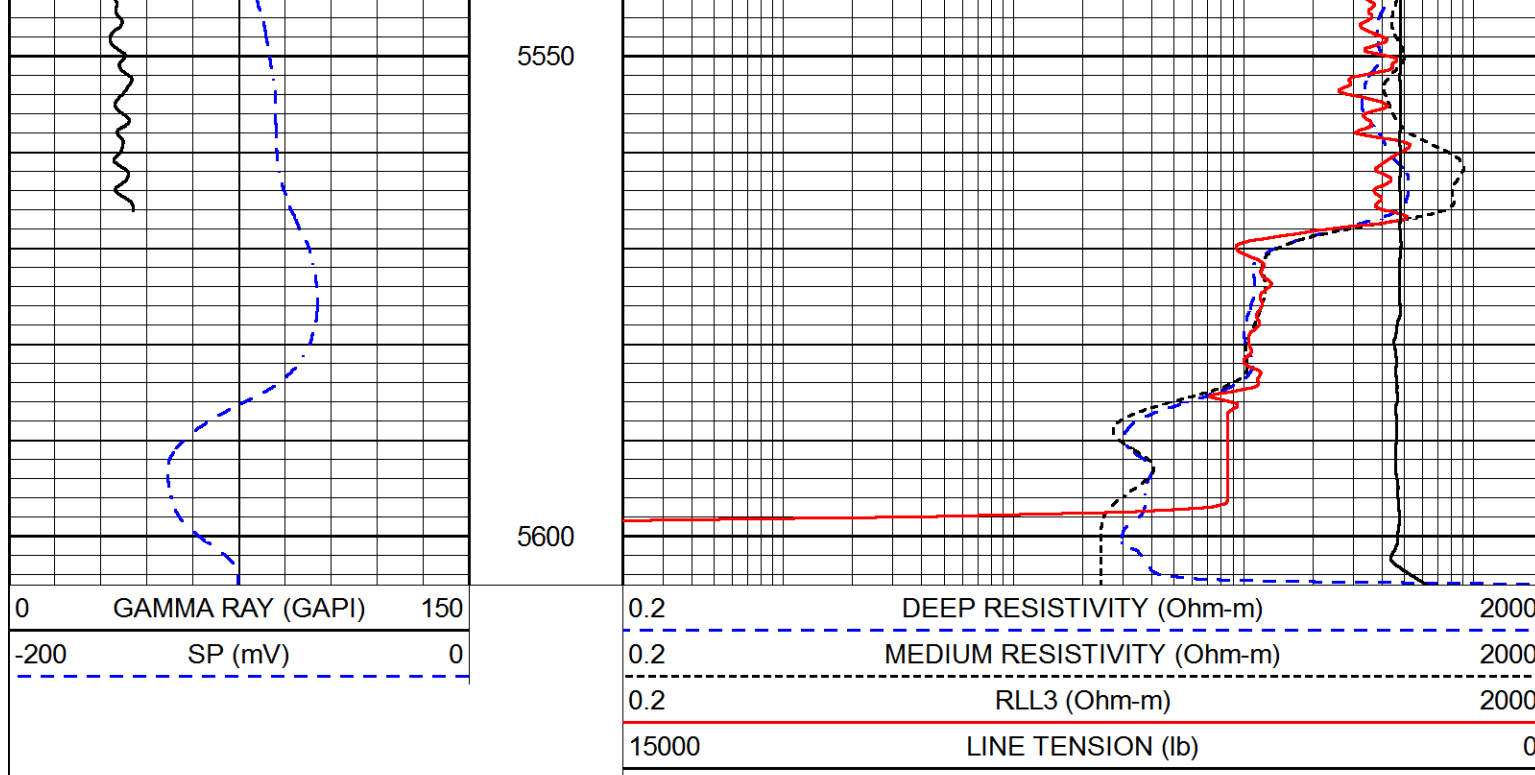
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5400

5450

5500





Calibration Report

Database File merit_wenu_701.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Fri Dec 06 00:05:06 2019

Dual Induction Calibration Report

Serial-Model: 55-222-M&W
 Calibration Performed: Sun Oct 27 17:18:15 2019

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.500	-41.000
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.380	-15.000

Microlog Calibration Report

Serial-Model: UDM-01-PSI UDM ML
 Performed: Fri May 31 06:10:42 2019

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	16000.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	18000.0000	0.0000
Caliper	1.0019	1.2642	8.0000	22.0000	in	53.3774	-45.4785

Compensated Density Calibration Report

Serial-Model: 979-229-M&W
 Source / Verifier: 21170B /
 Master Calibration Performed: Tue Jul 23 10:17:03 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	7680.82	9959.08	cps
Aluminum	2.710	g/cc	1424.07	6427.19	cps
Spine Angle = 75.43			Density/Spine Ratio = 0.548		
	Size		Reading		
Small Ring	4.00	in	1.15		
Large Ring	14.00	in	1.02		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



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