RADIAL CEMENT BOND VARIABLE DENSITY LOG W/ GAMMA RAY / CCL

ALLIED WIRELINE

Company	BONANZA CREEK ENERGY
Well	ANTELOPE U-Y-17HNB
Field	WATTENBERG
County	WELD
State	COLORADO

Company BONANZA CREEK ENERGY
Well ANTELOPE U-Y-17HNB
Field WATTENBERG
County WELD
State COLORADO

Location: API # : 05.123.37651

NWNE

SEC 17 TWP 5N RGE 62W

Other Services

Permanent Datum	GL	Elevation	4695
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B.
D.F.
G.L. 4695

Date	5-SEPT-2013
Run Number	ONE
Depth Driller	11,136'
Depth Logger	6890'
Bottom Logged Interval	6889"
Top Log Interval	
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	13:00
Time Logger on Bottom	13:45
Equipment Number	130-33CH
Location	BRIGHTON
Recorded By	LEROY HOBBS
Witnessed By	KURT DODGE

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	36	SURFACE	463'
Prot. String				
Production String	7"	26	SURFACE	7014'
Liner	4-1/2"	11.60	6914'	11,185'

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

PRIMARY LOG ON WELL
KB NOT PROVIDED
WELL LOGGED UNDER "0" PSI

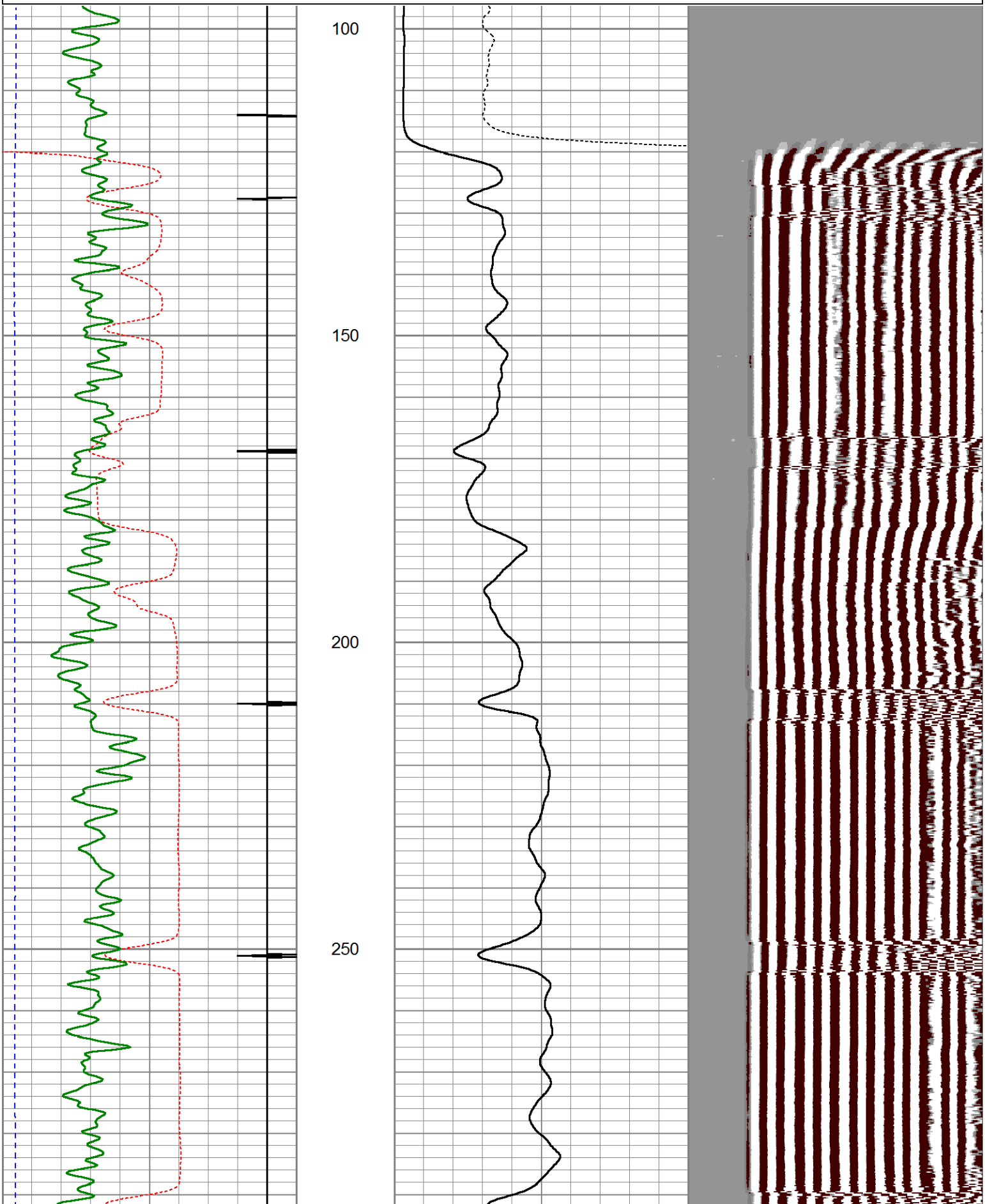
THANK YOU FOR USING ALLIED WIRELINE.

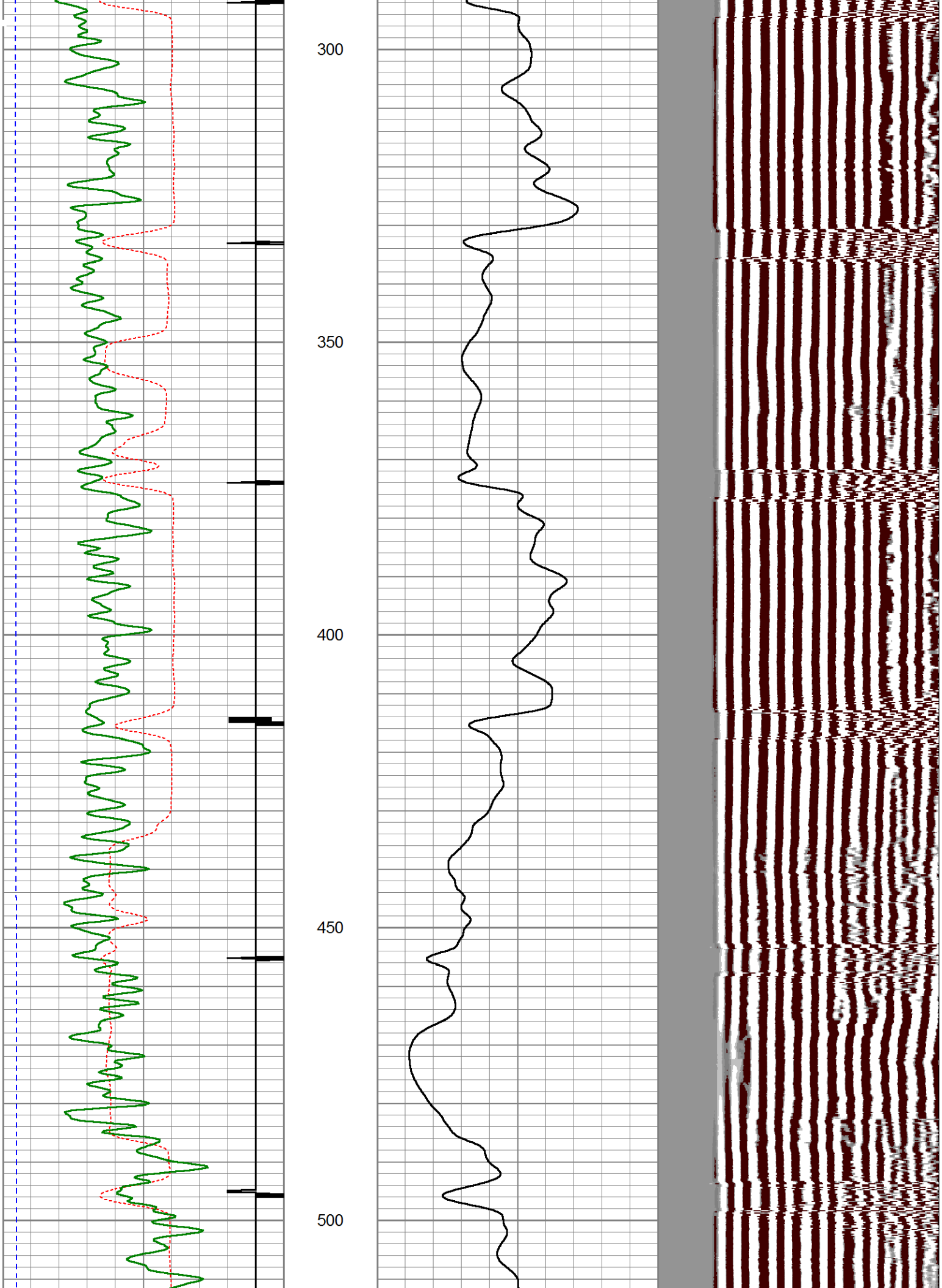
Database File:	e:\antelopeu-y-17hnb.db
Dataset Pathname:	pass2
Presentation Format:	cblprobe
Dataset Creation:	Thu Sep 05 13:24:38 2013 by Log 0
Charted by:	Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	*Casing Collar*	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10

200	Variable Density	1200

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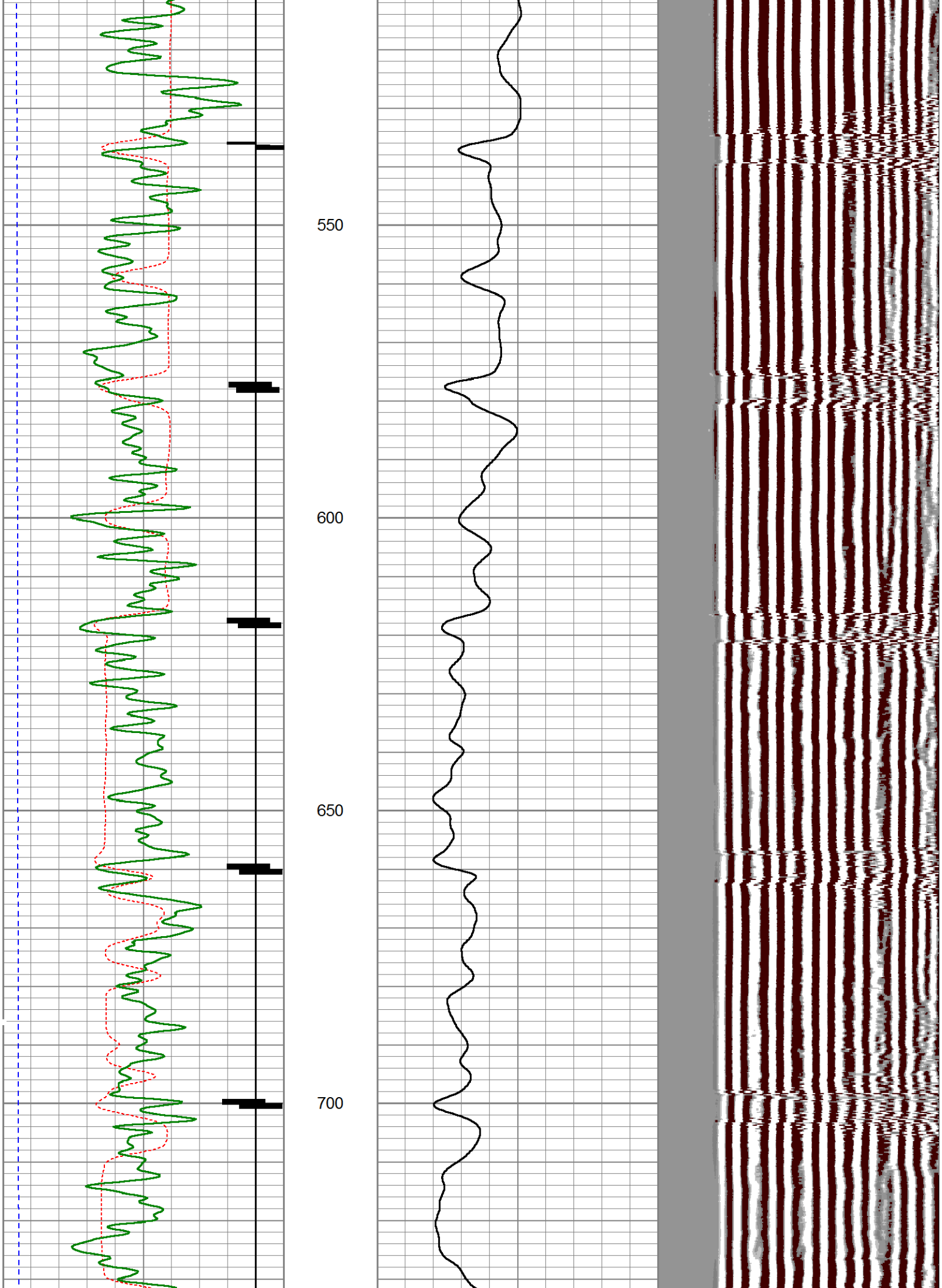
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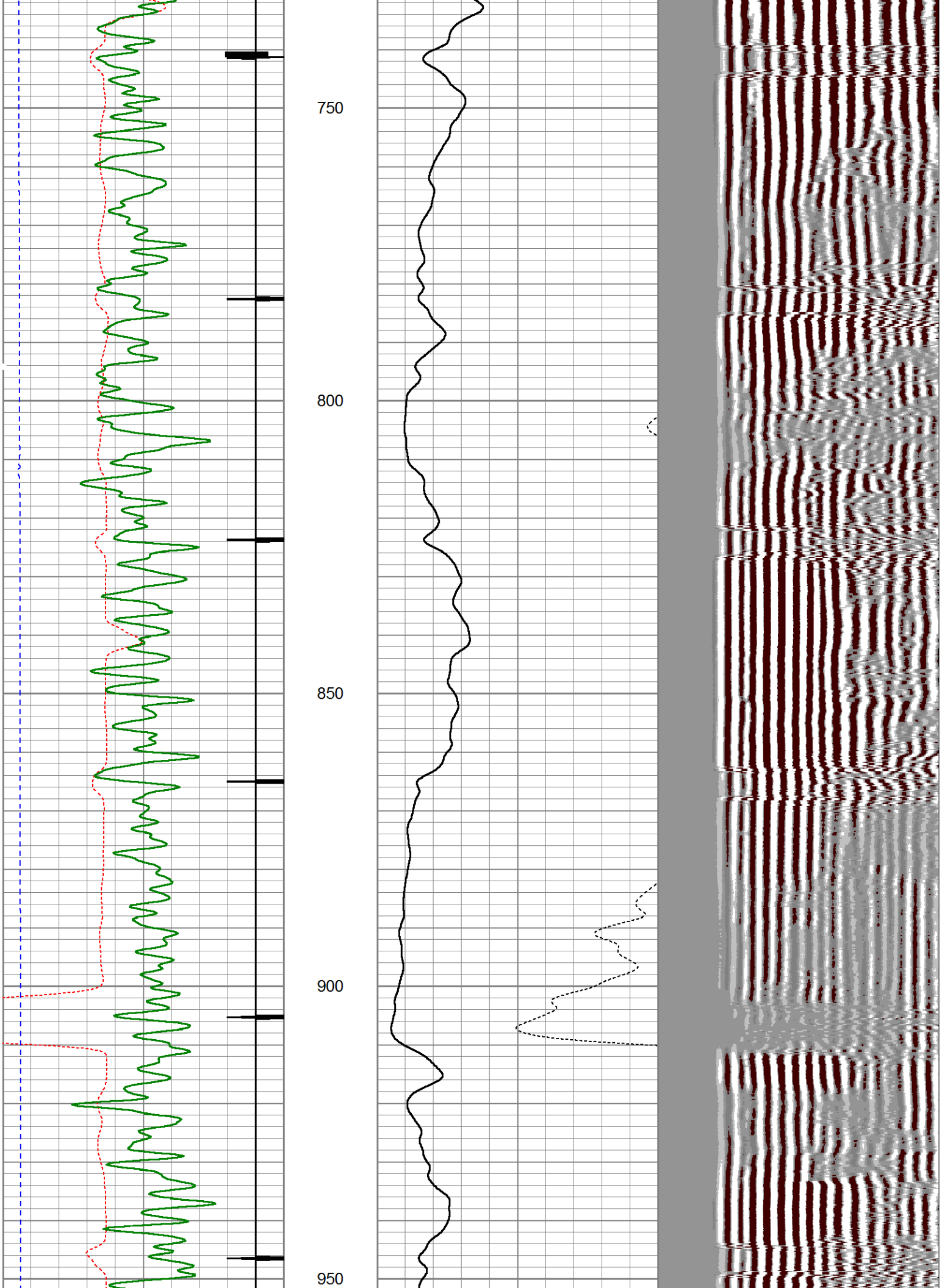
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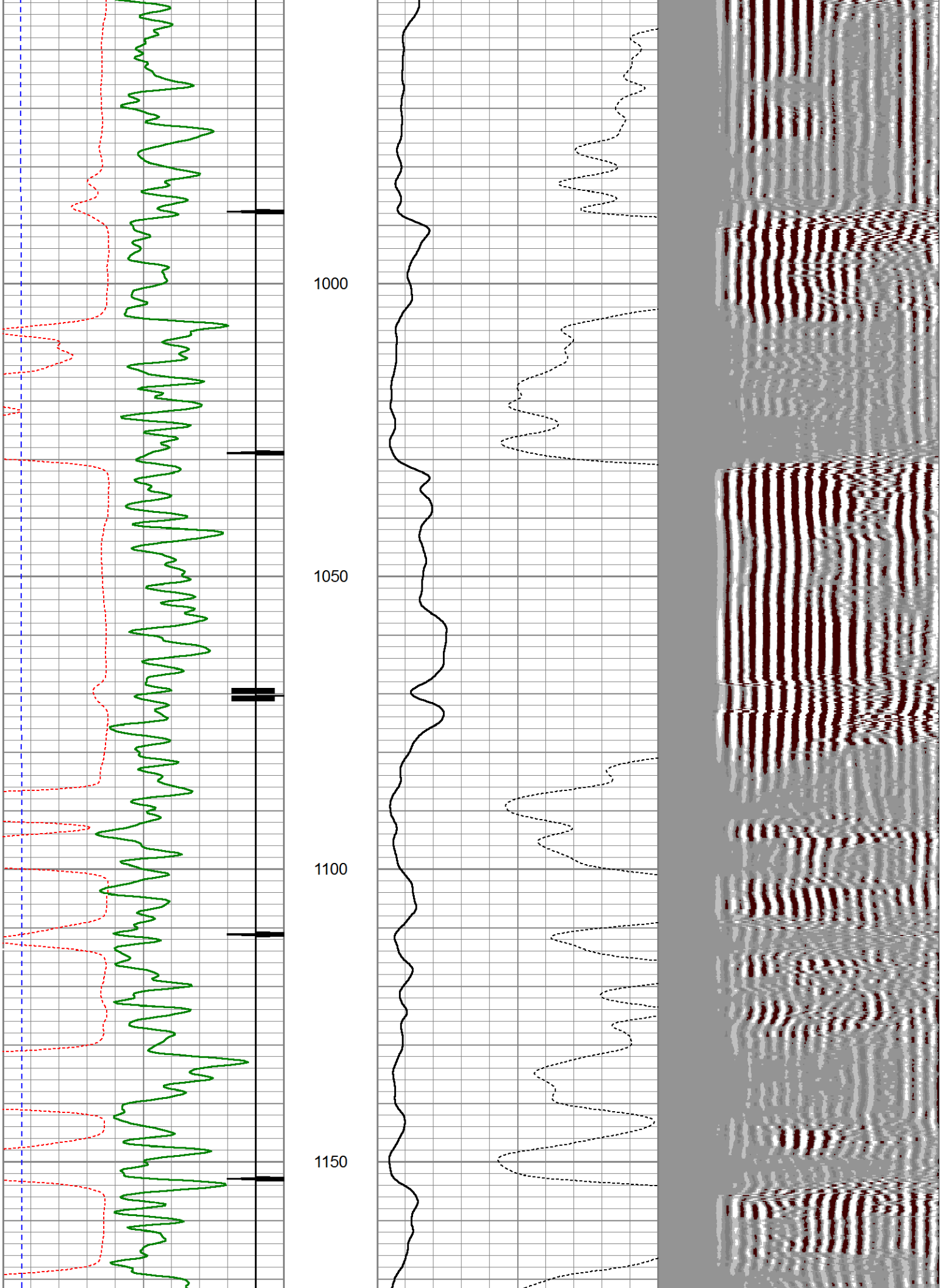
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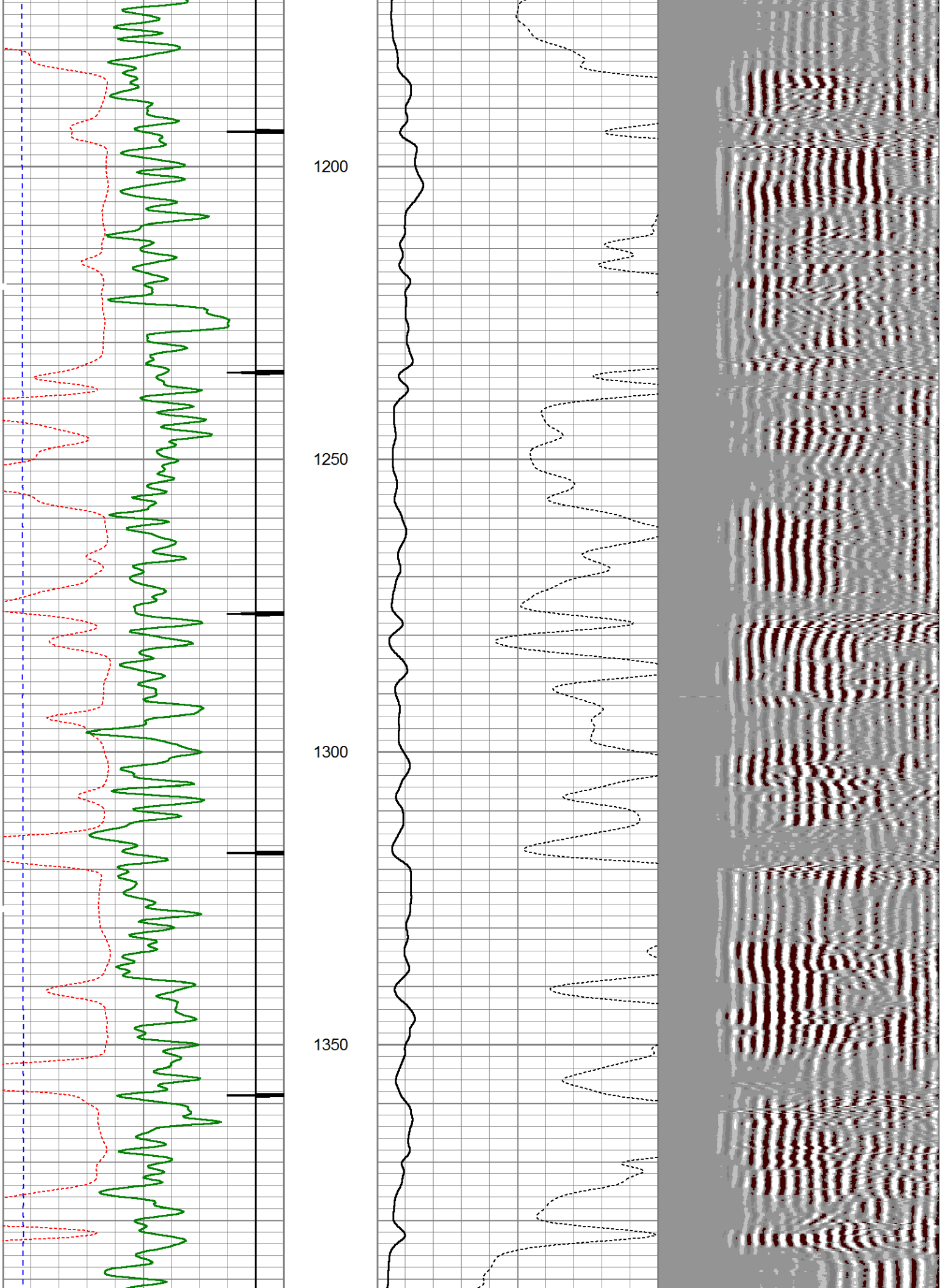
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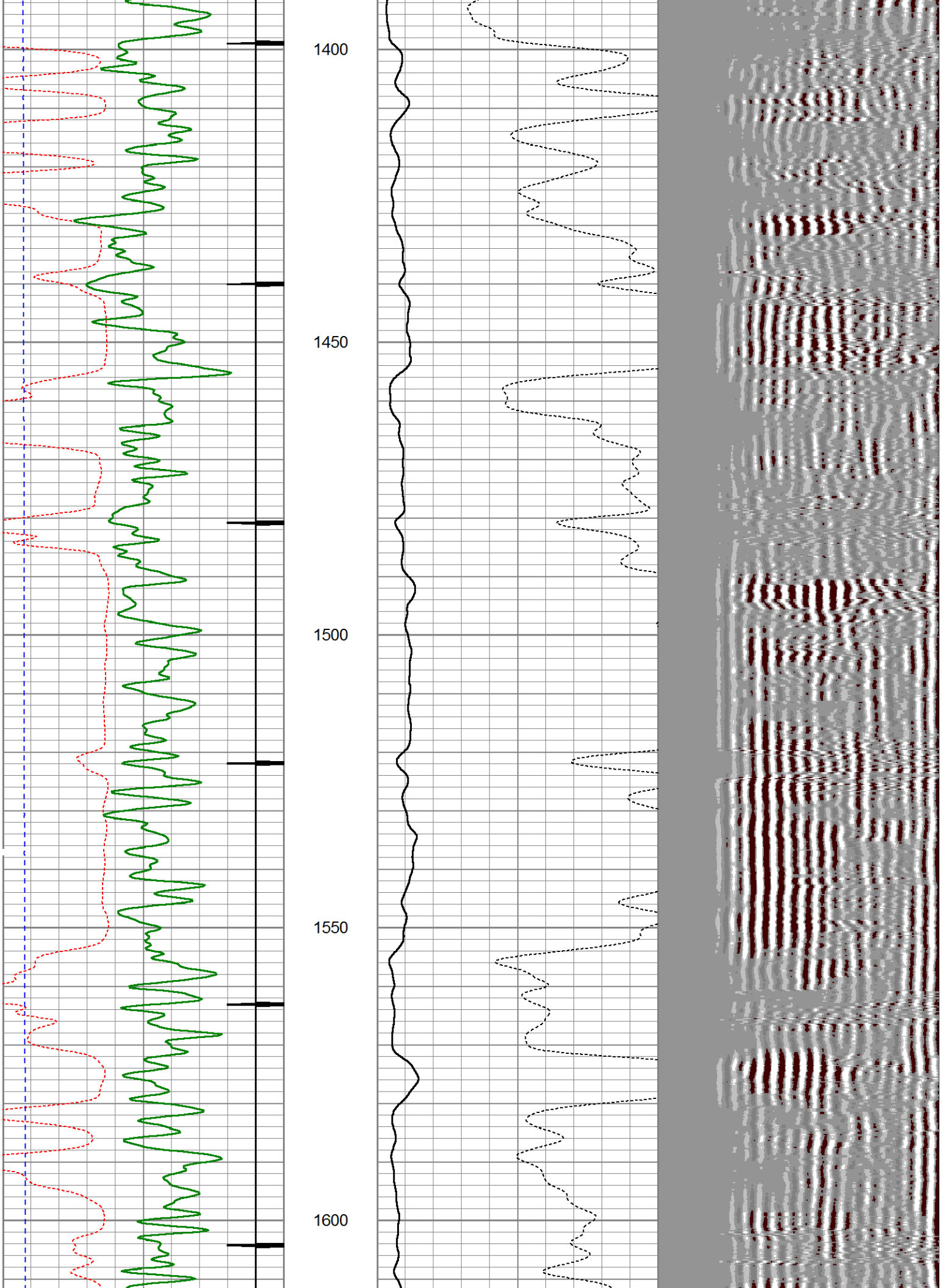
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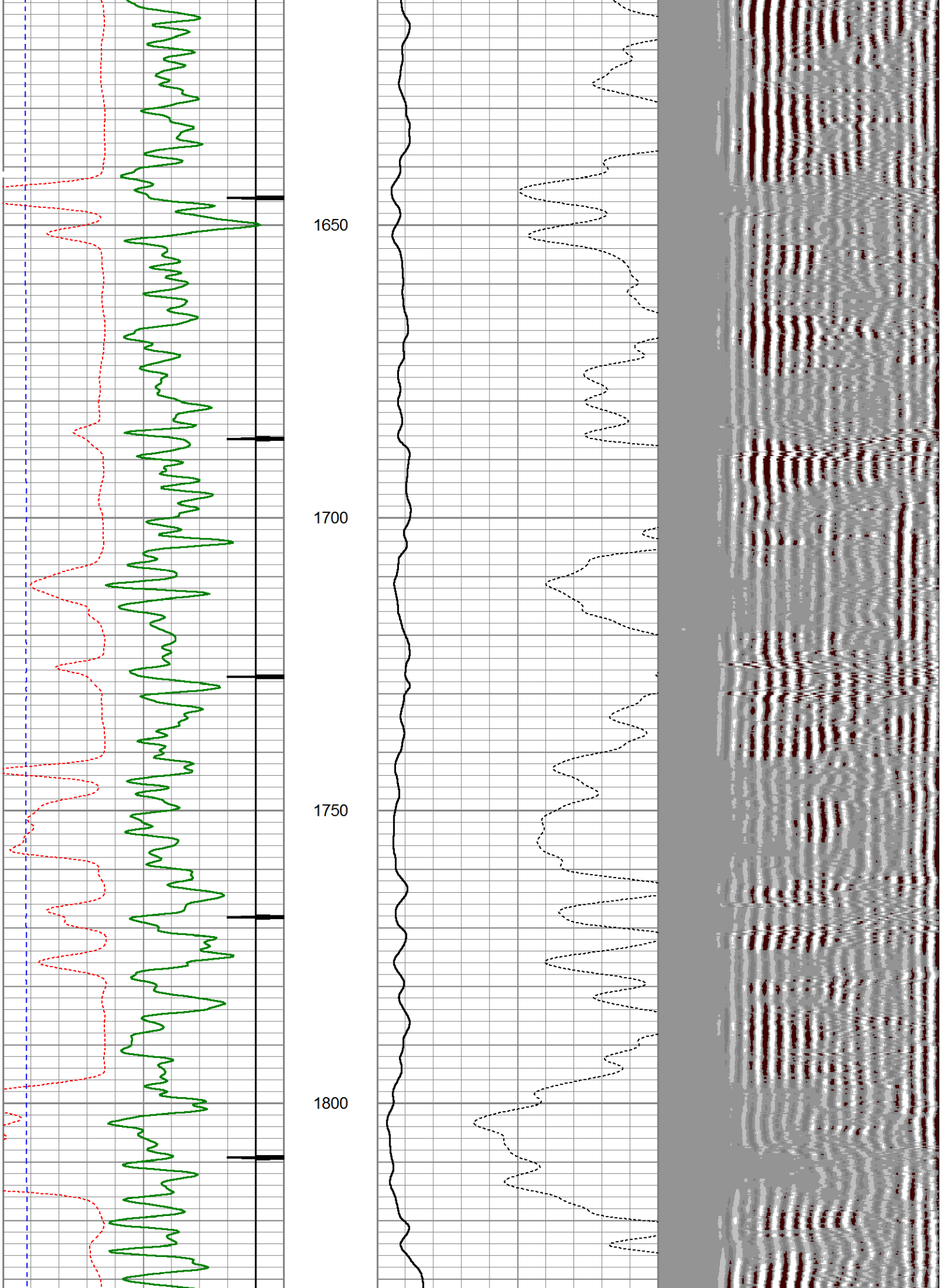
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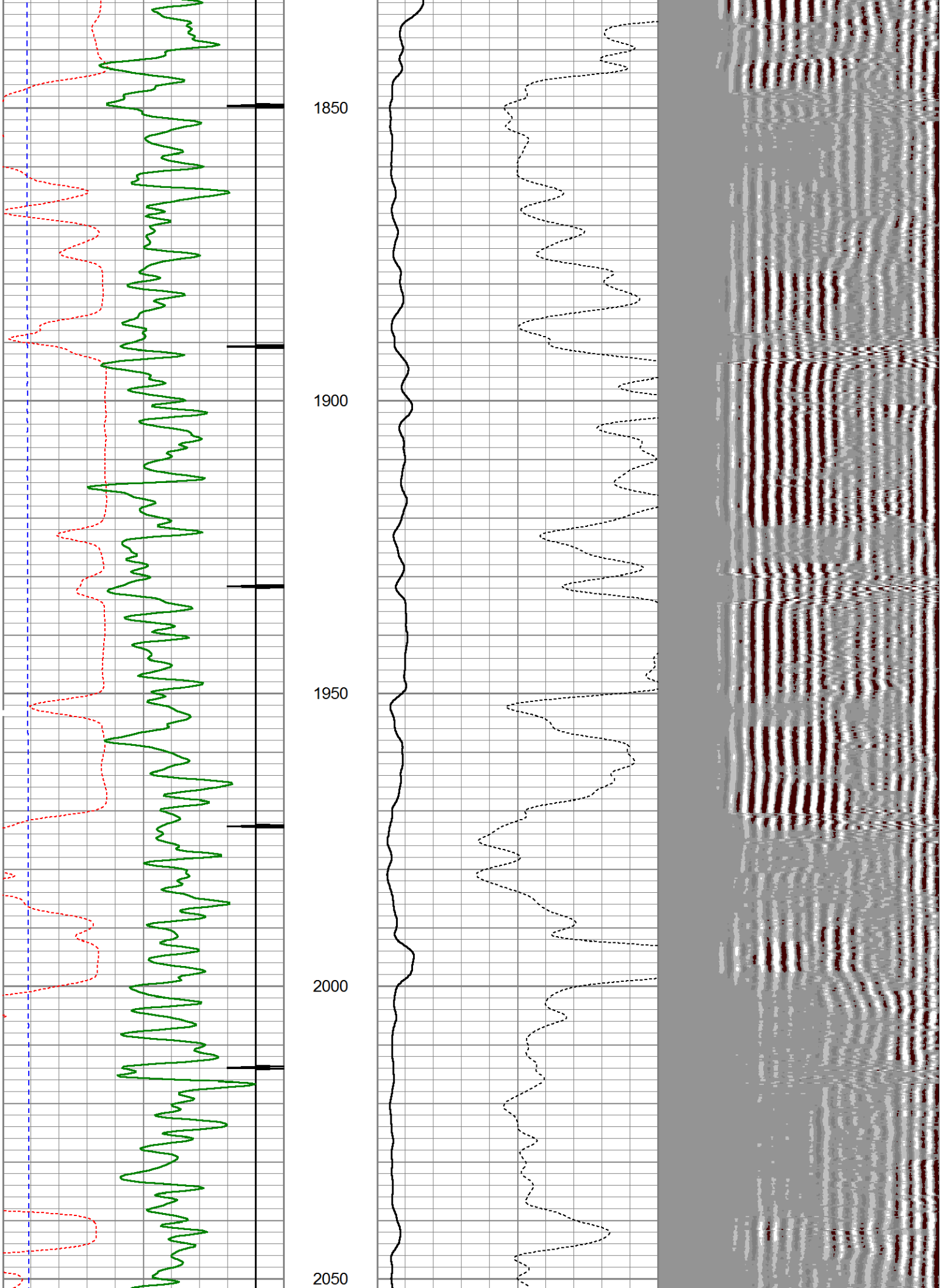
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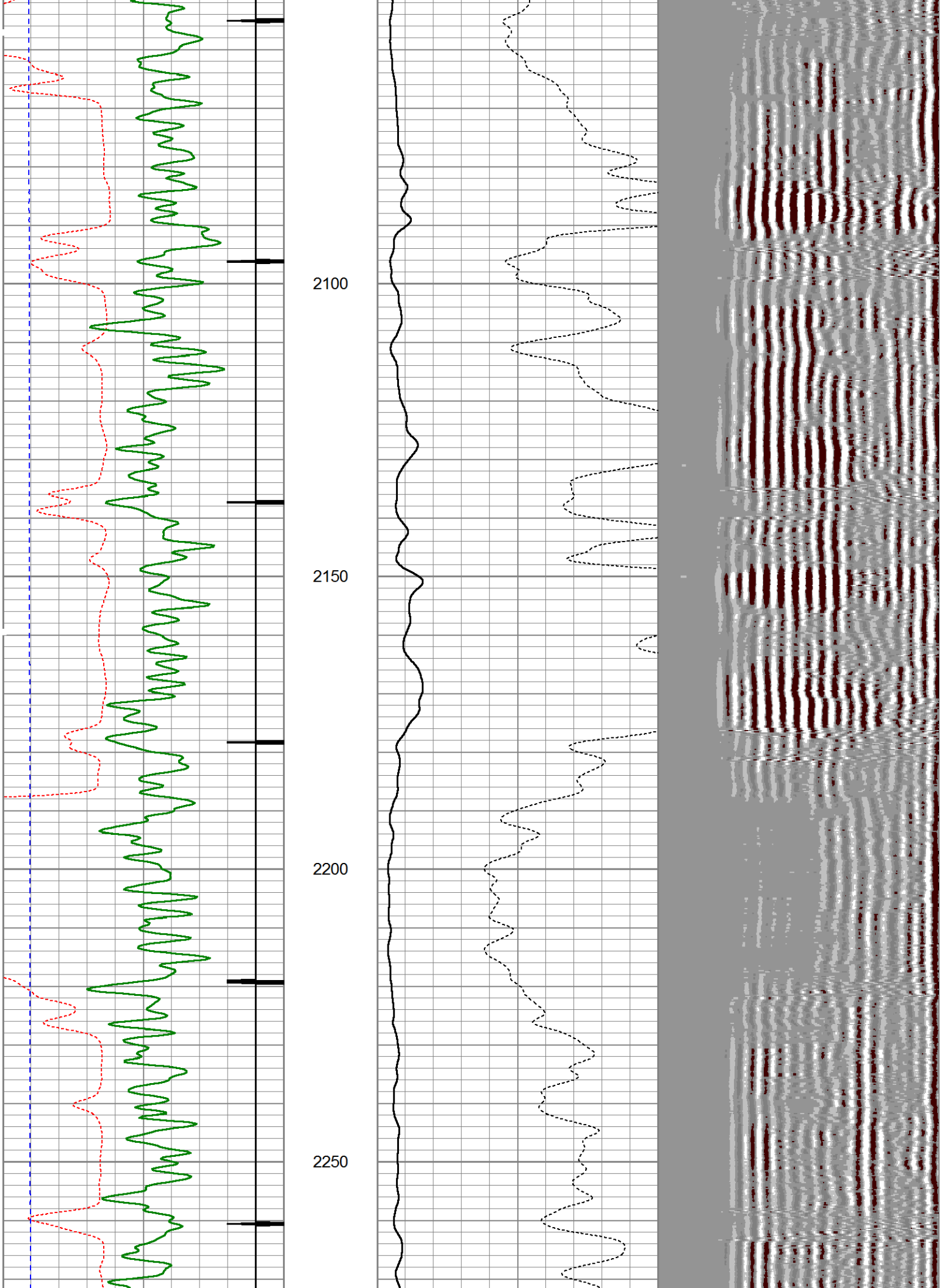
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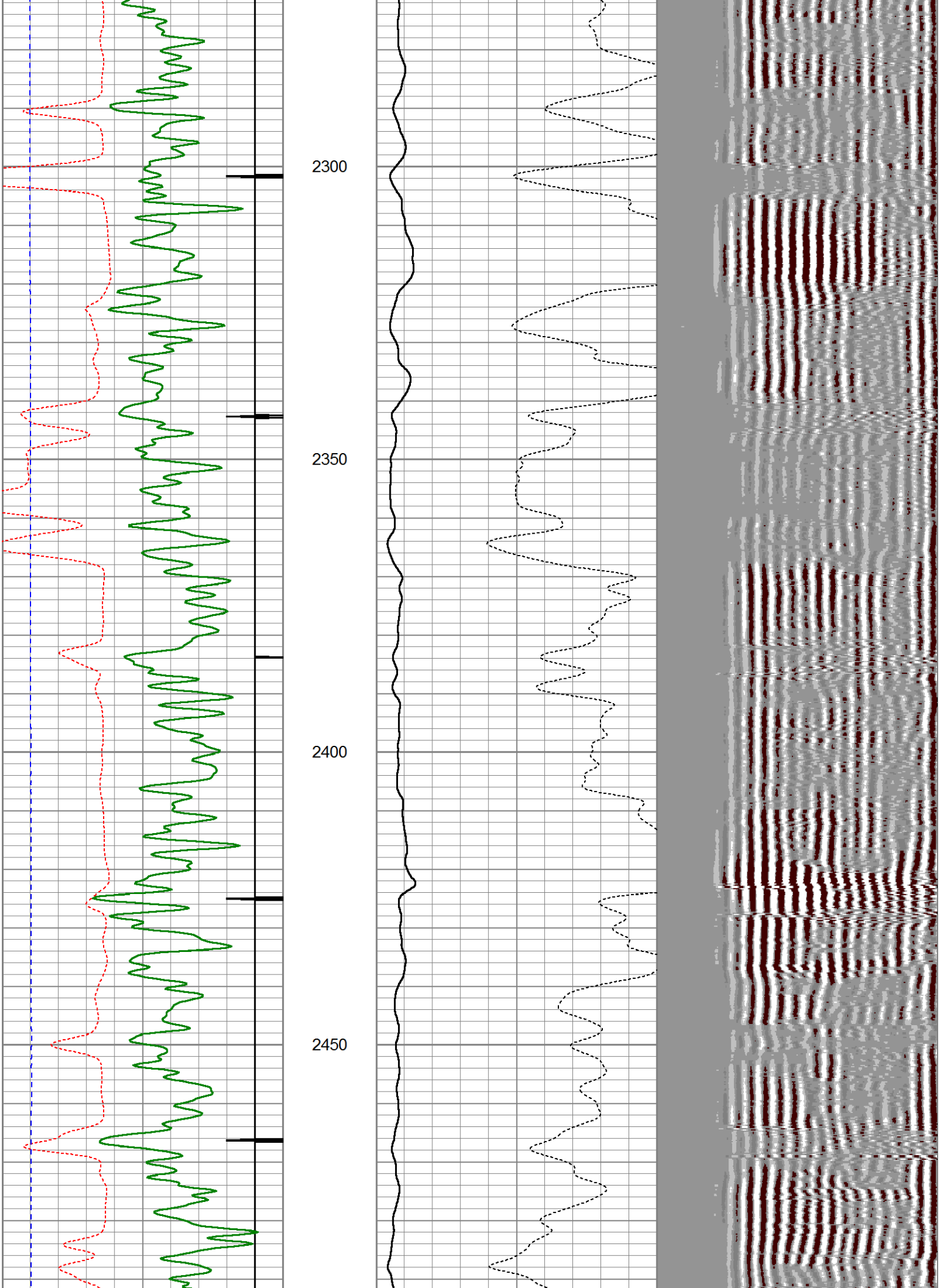
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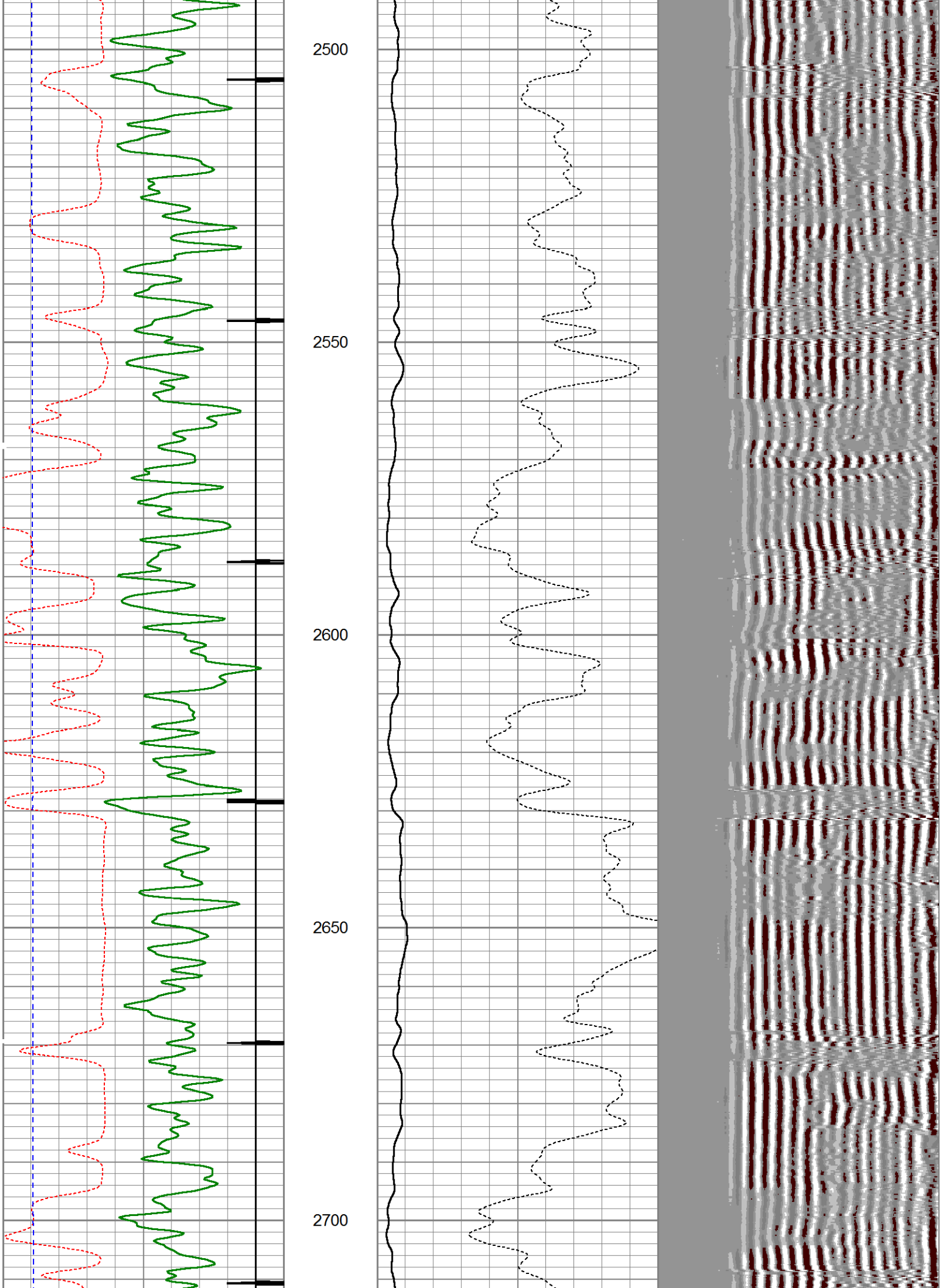
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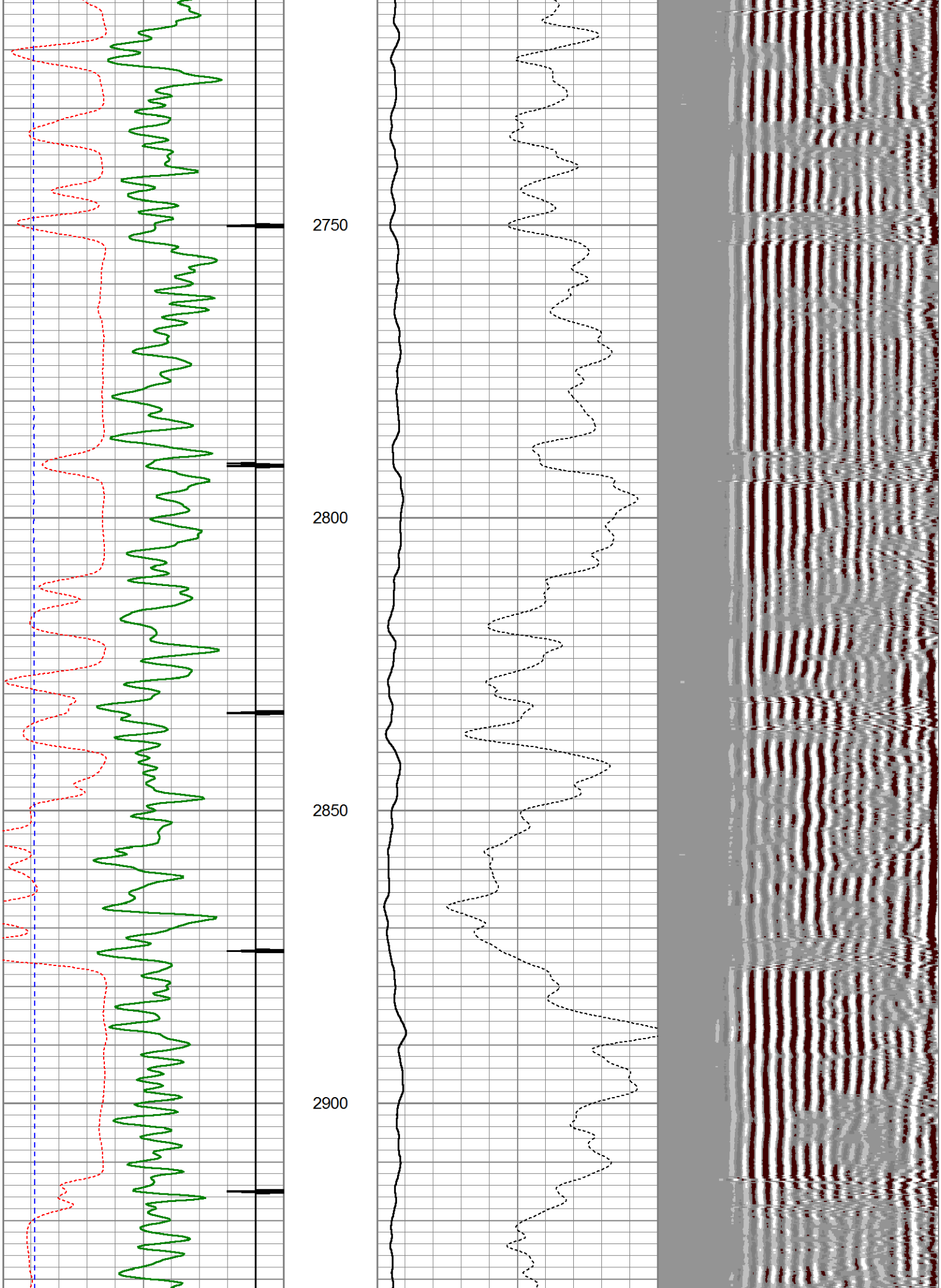
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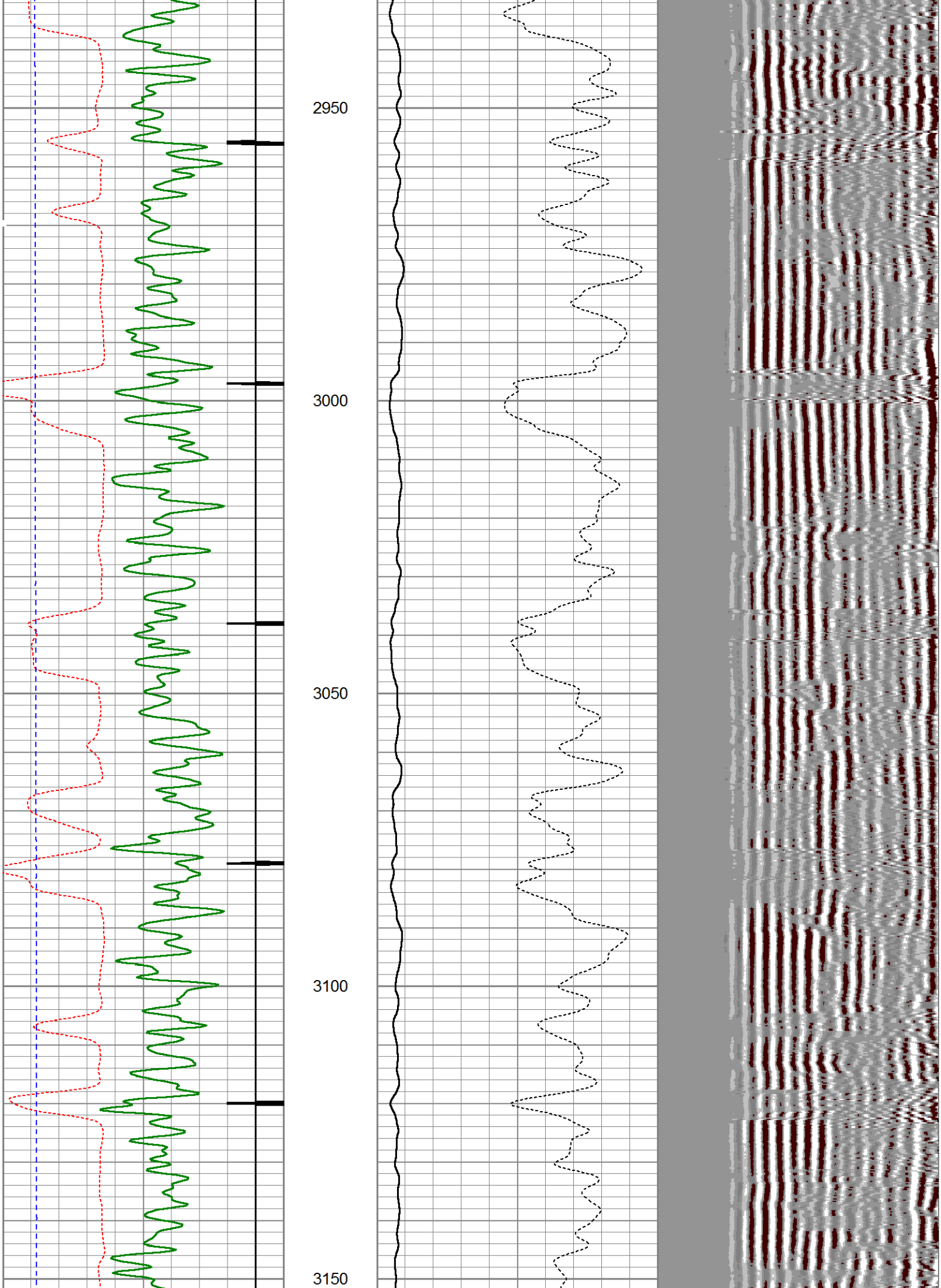
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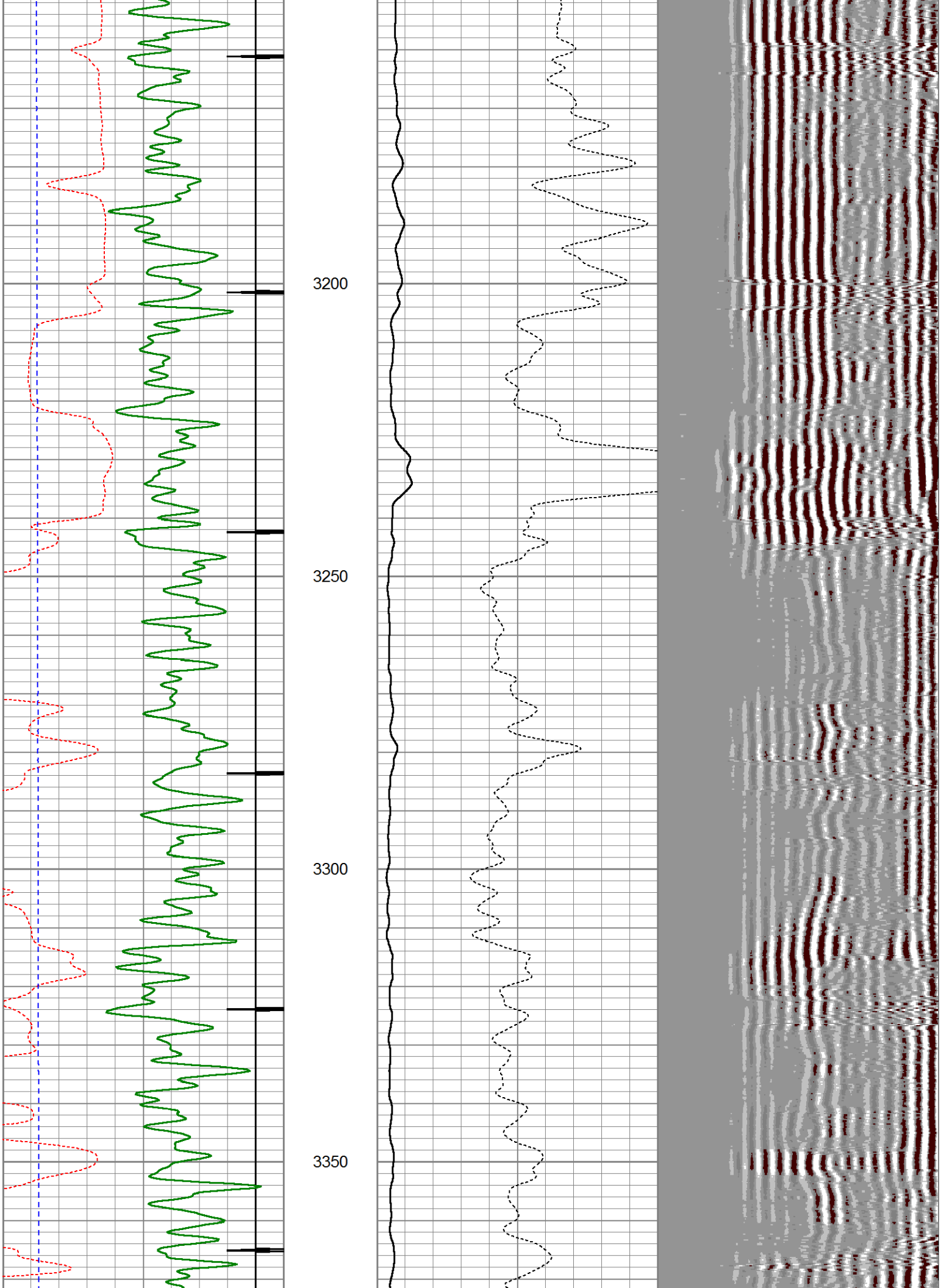
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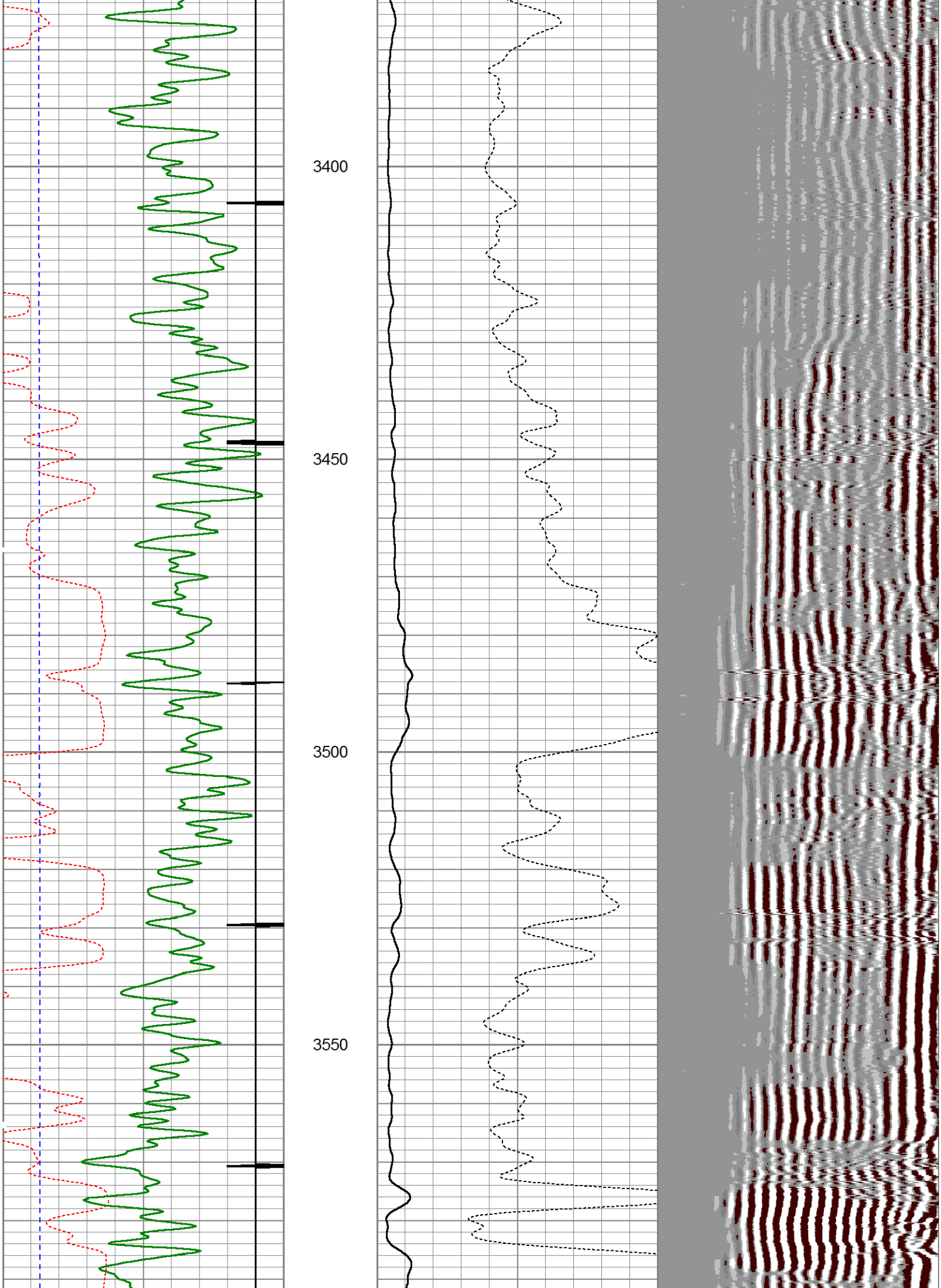
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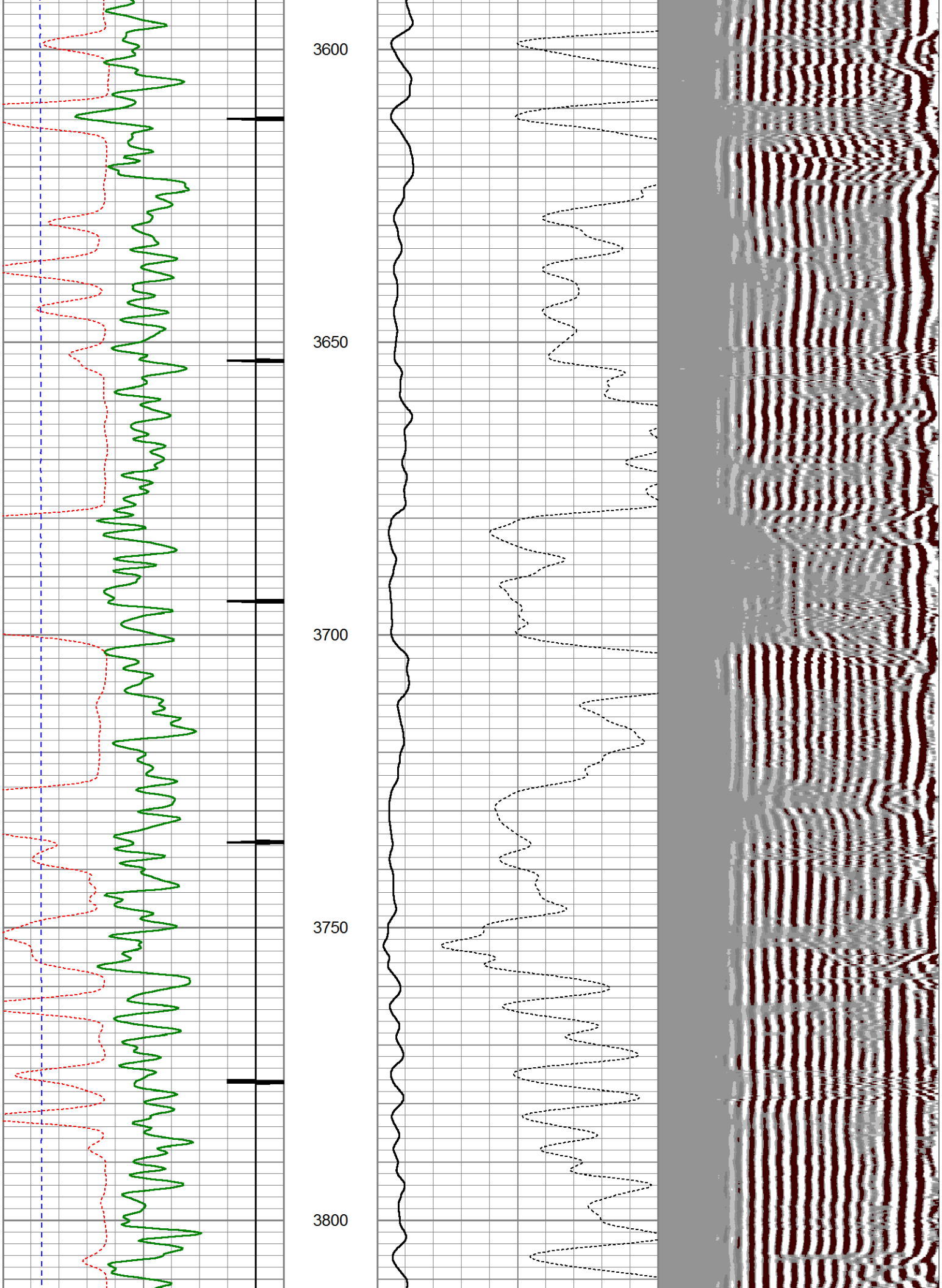
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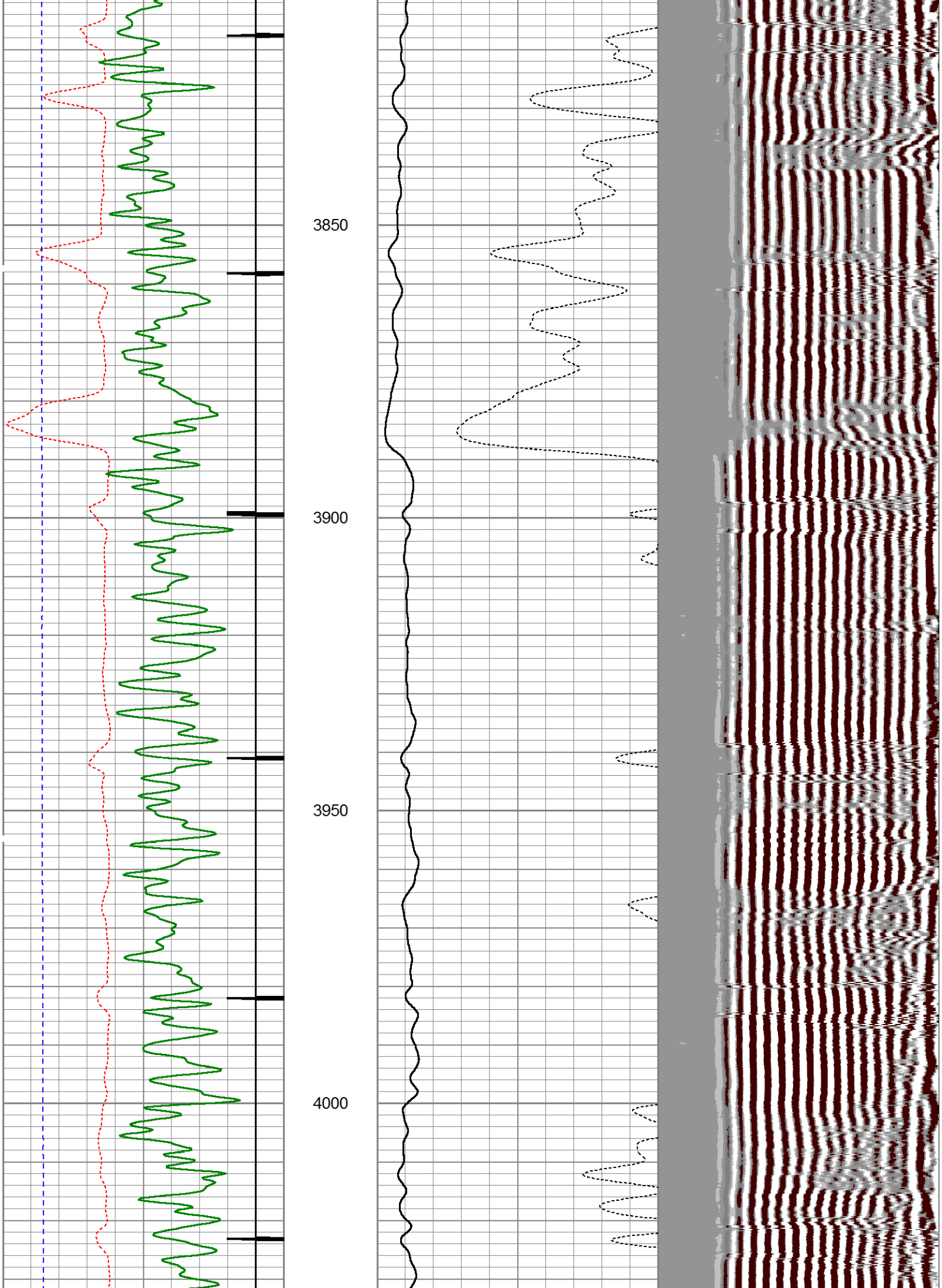
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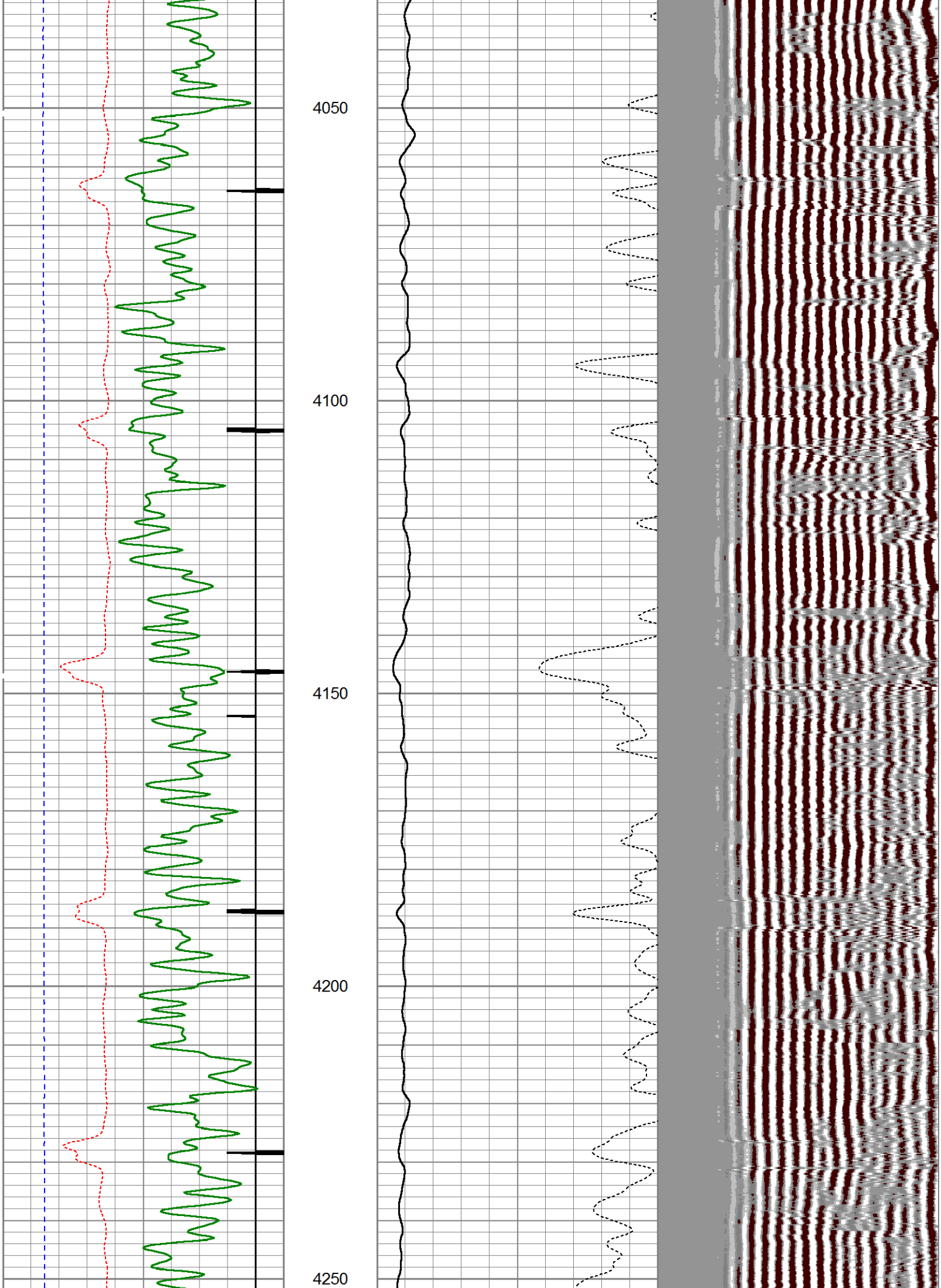
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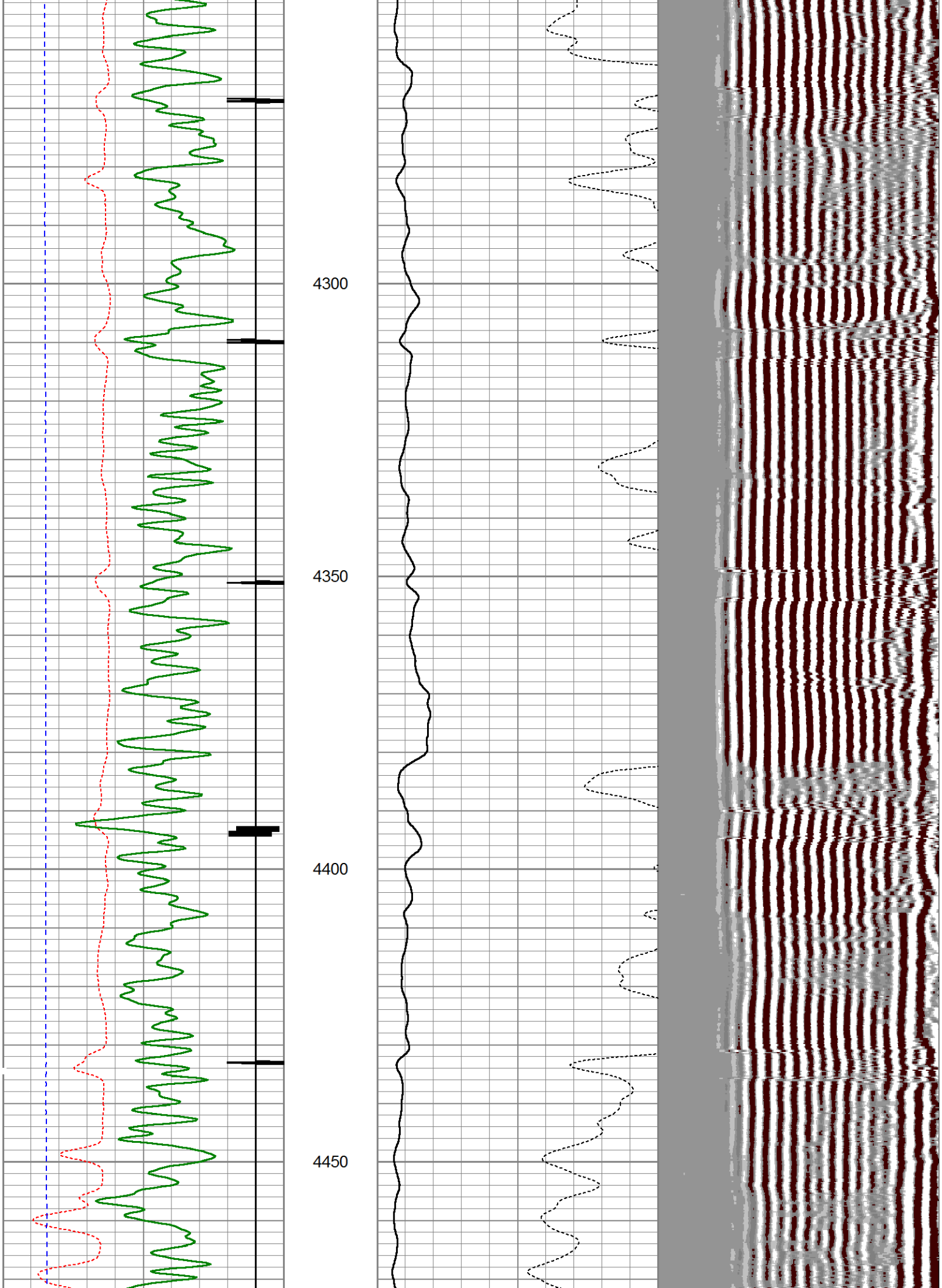
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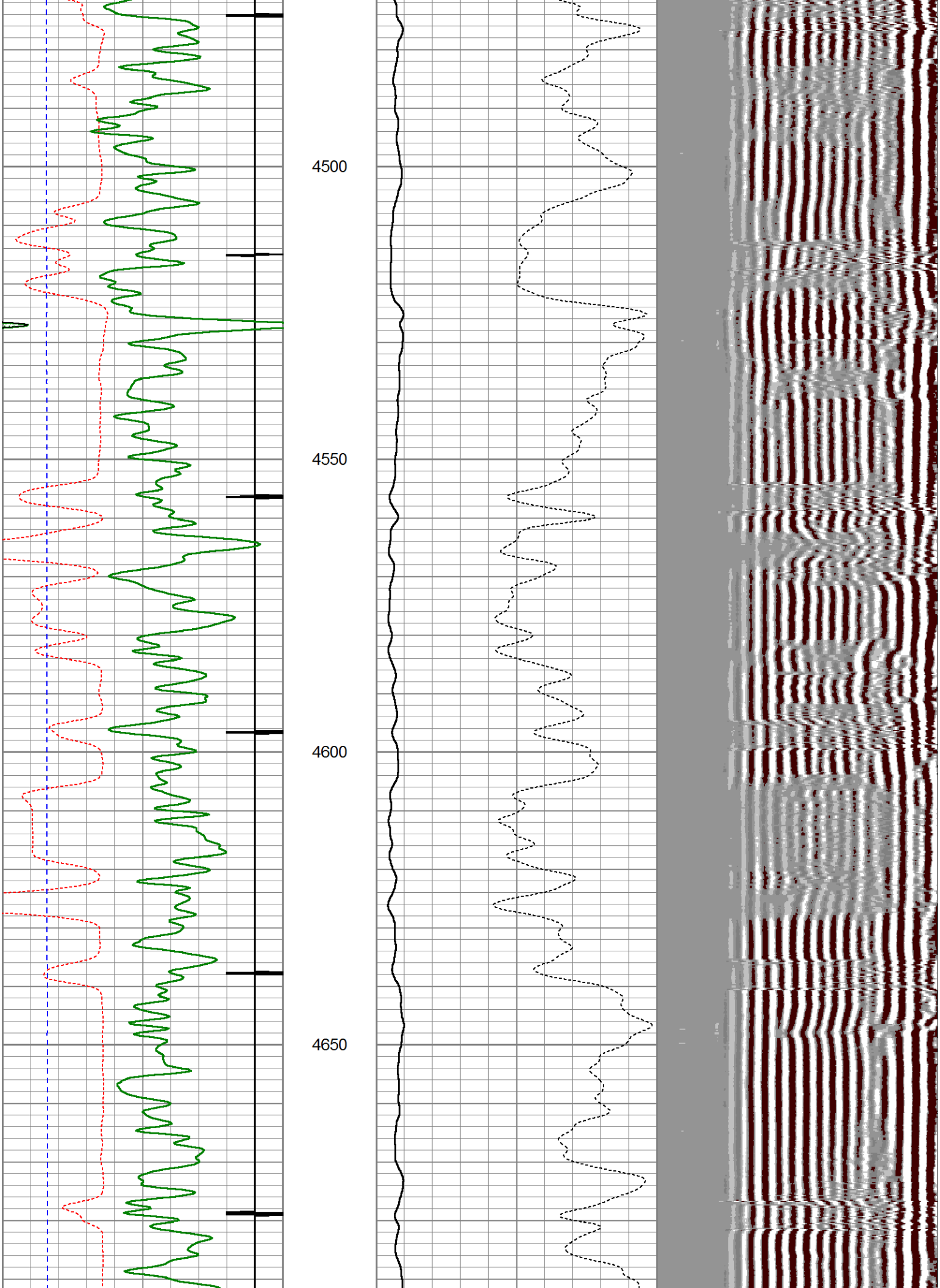
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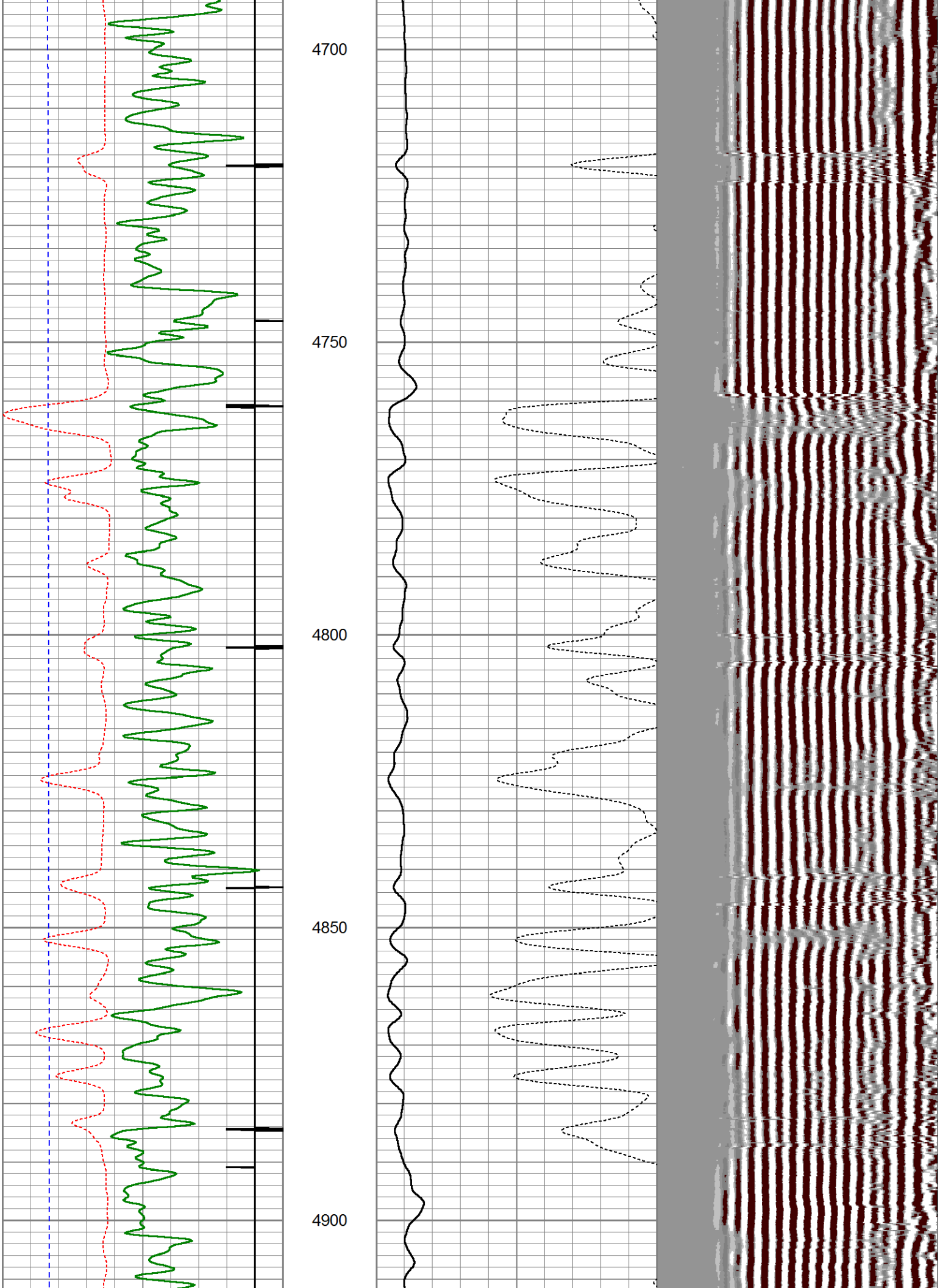
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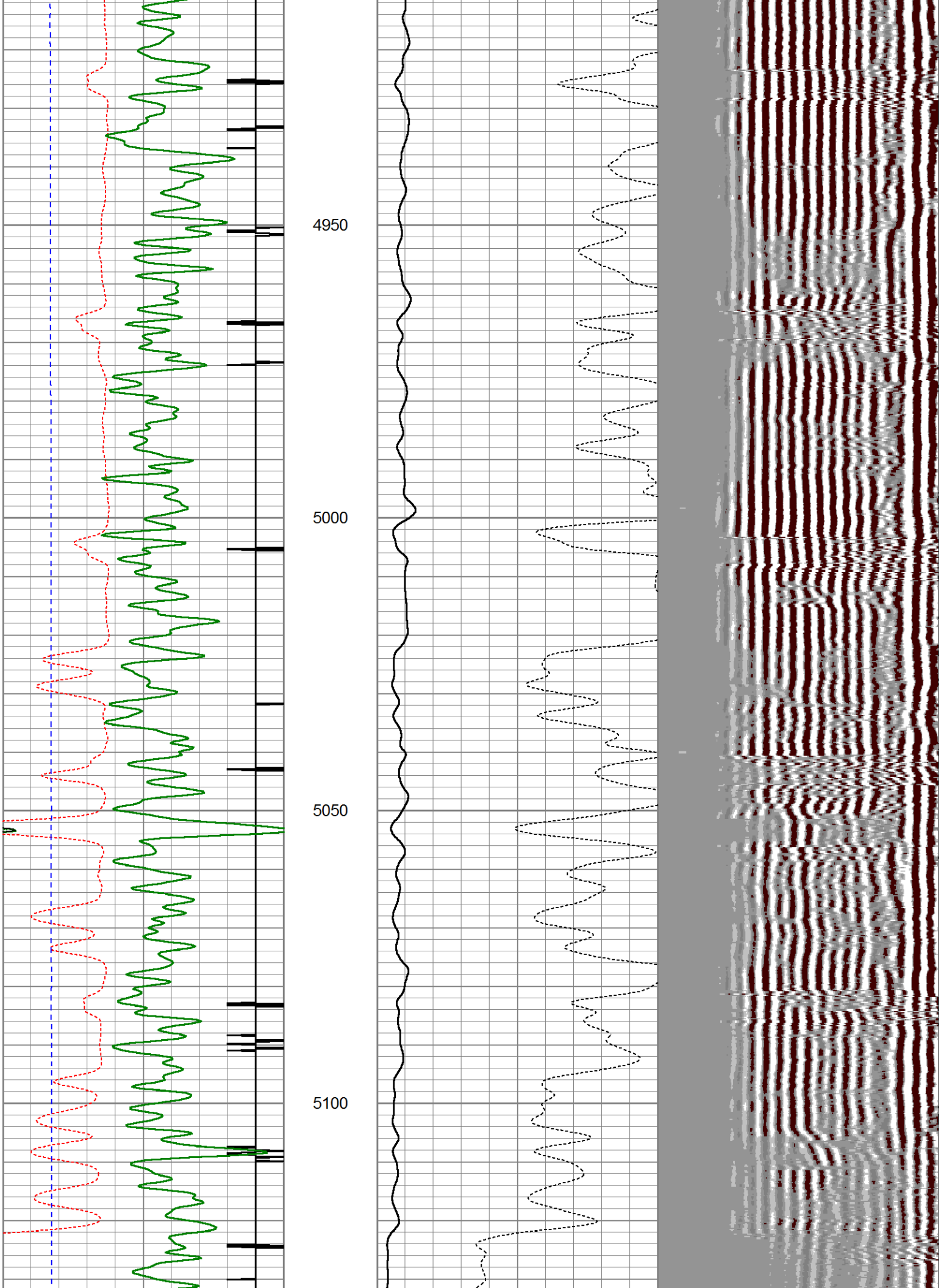
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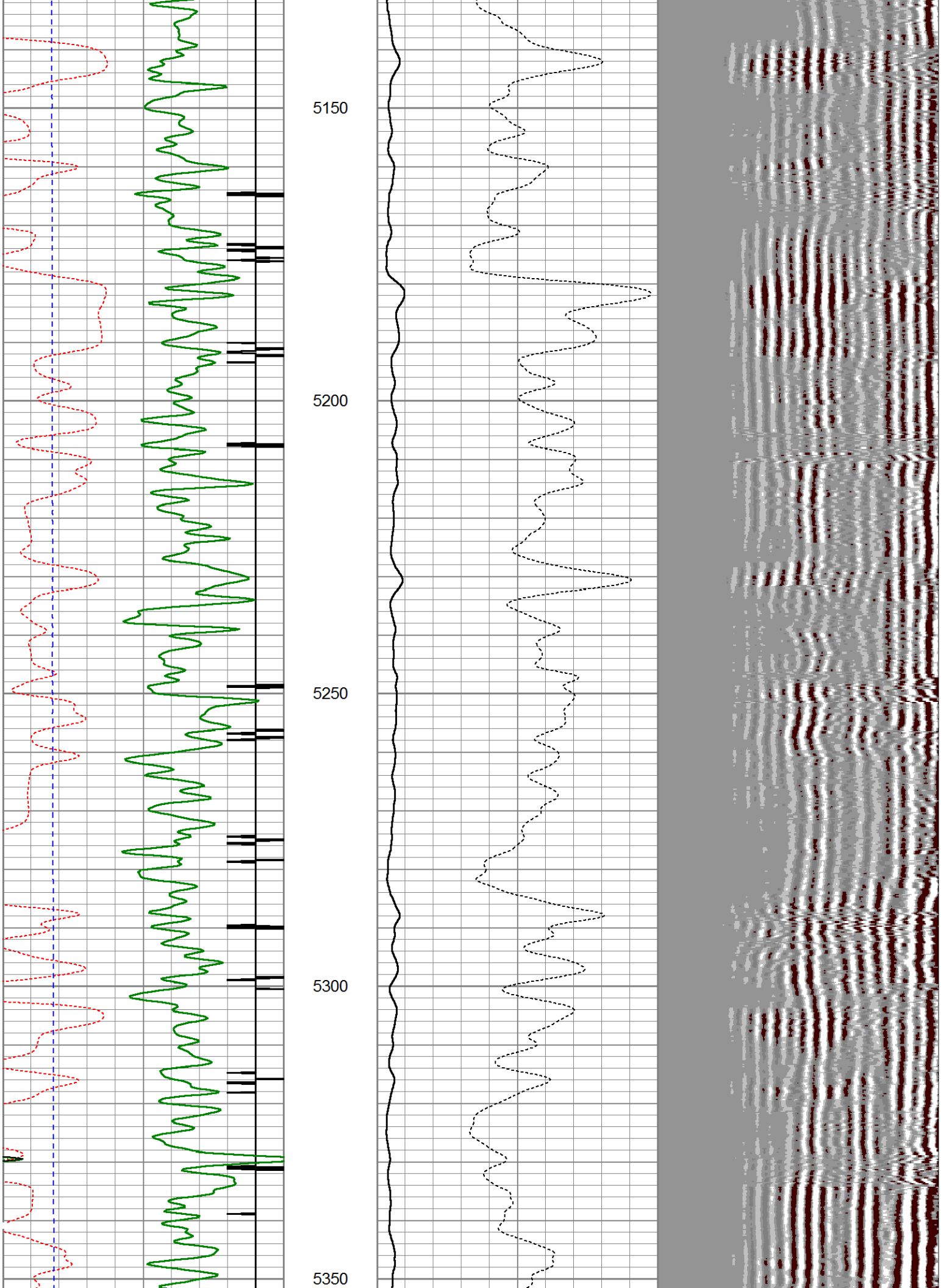
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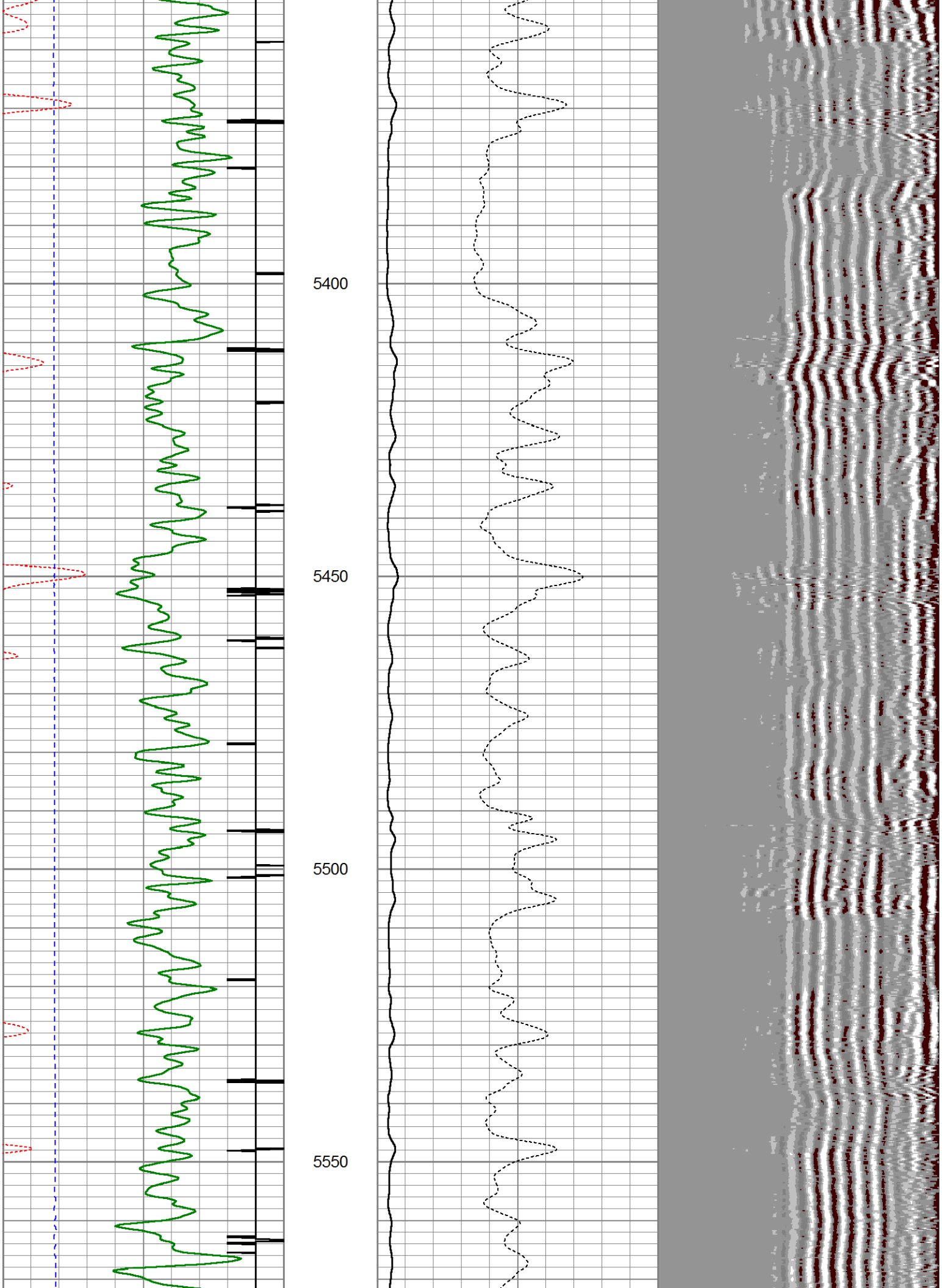
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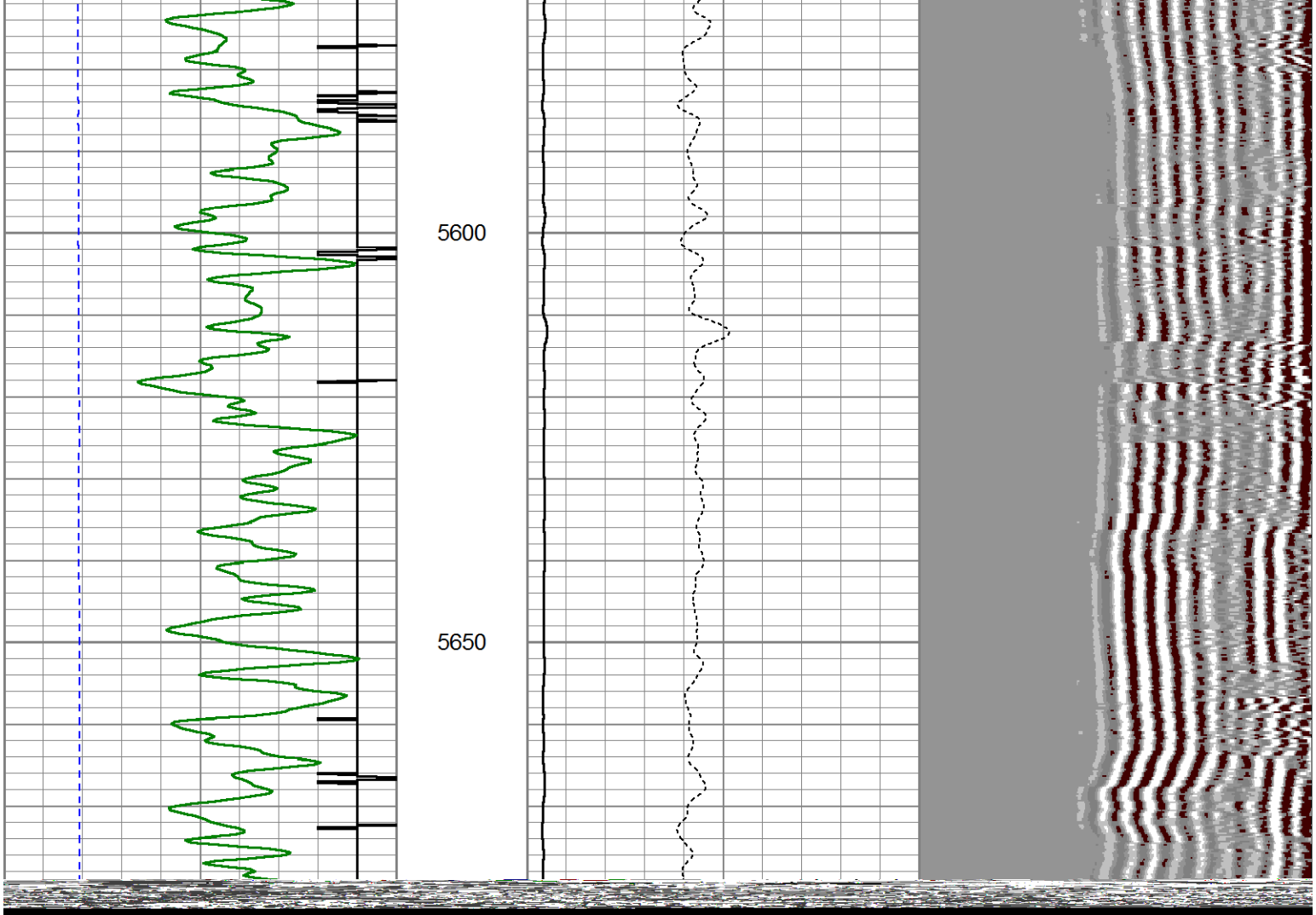
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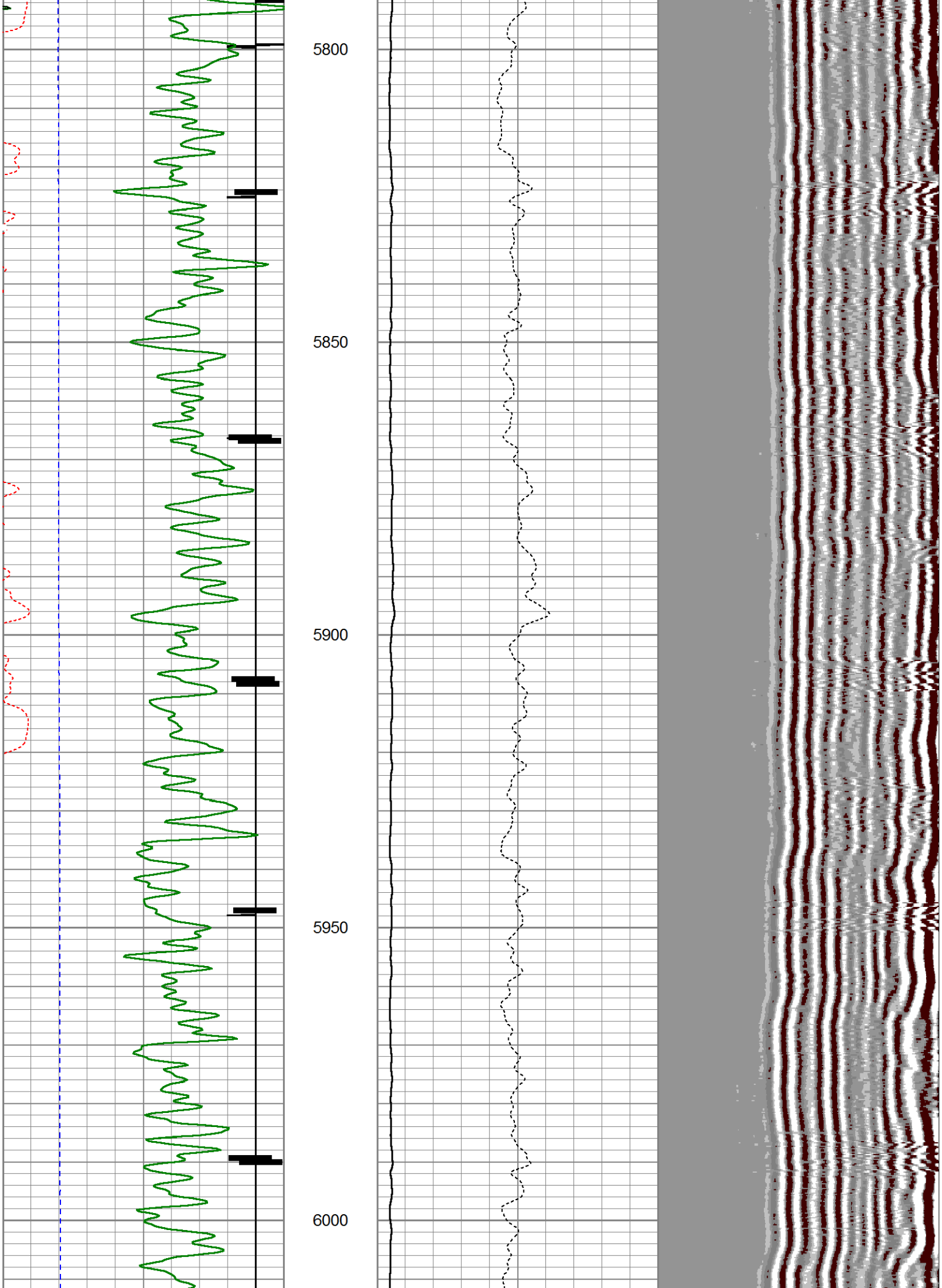
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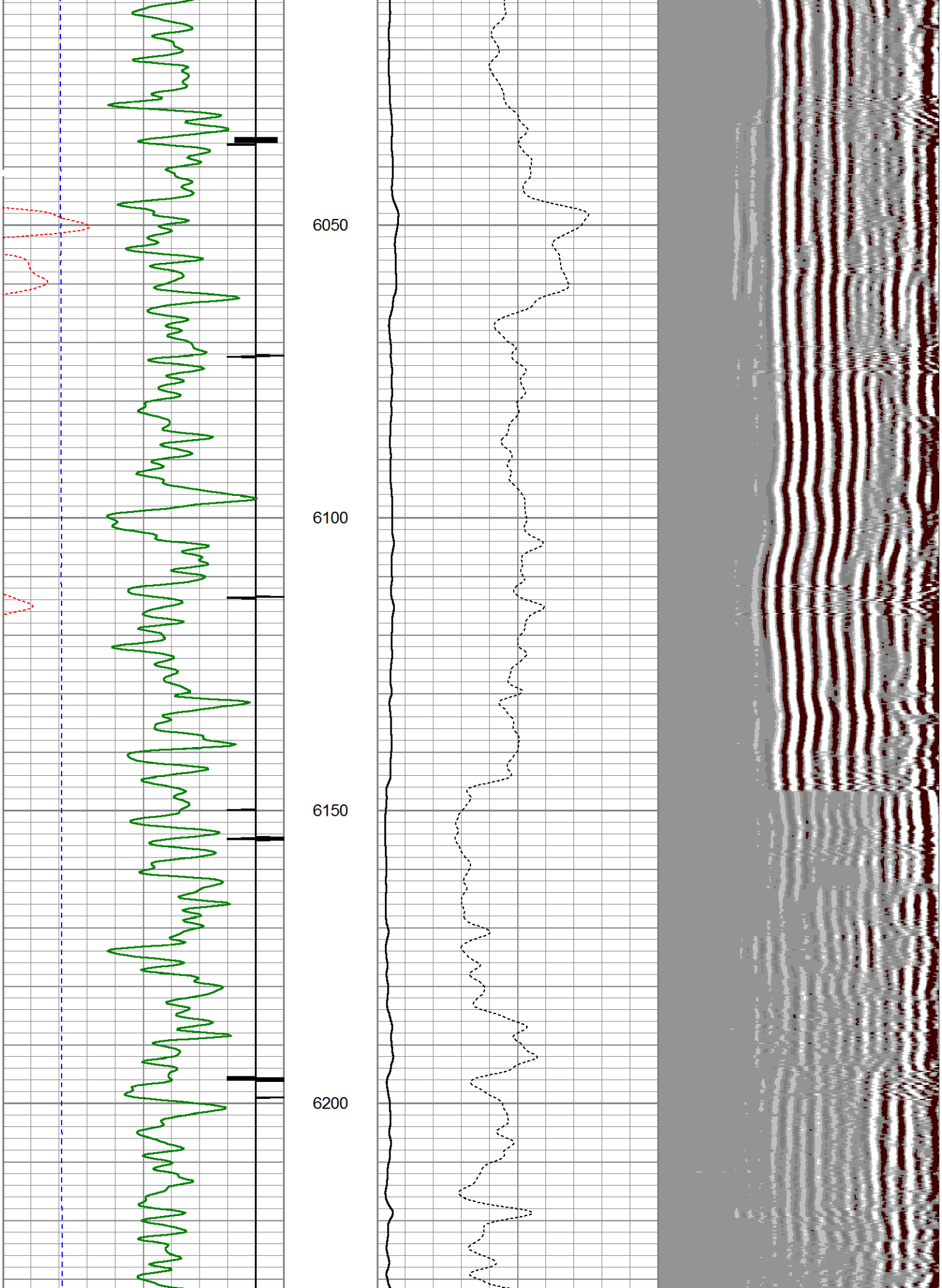
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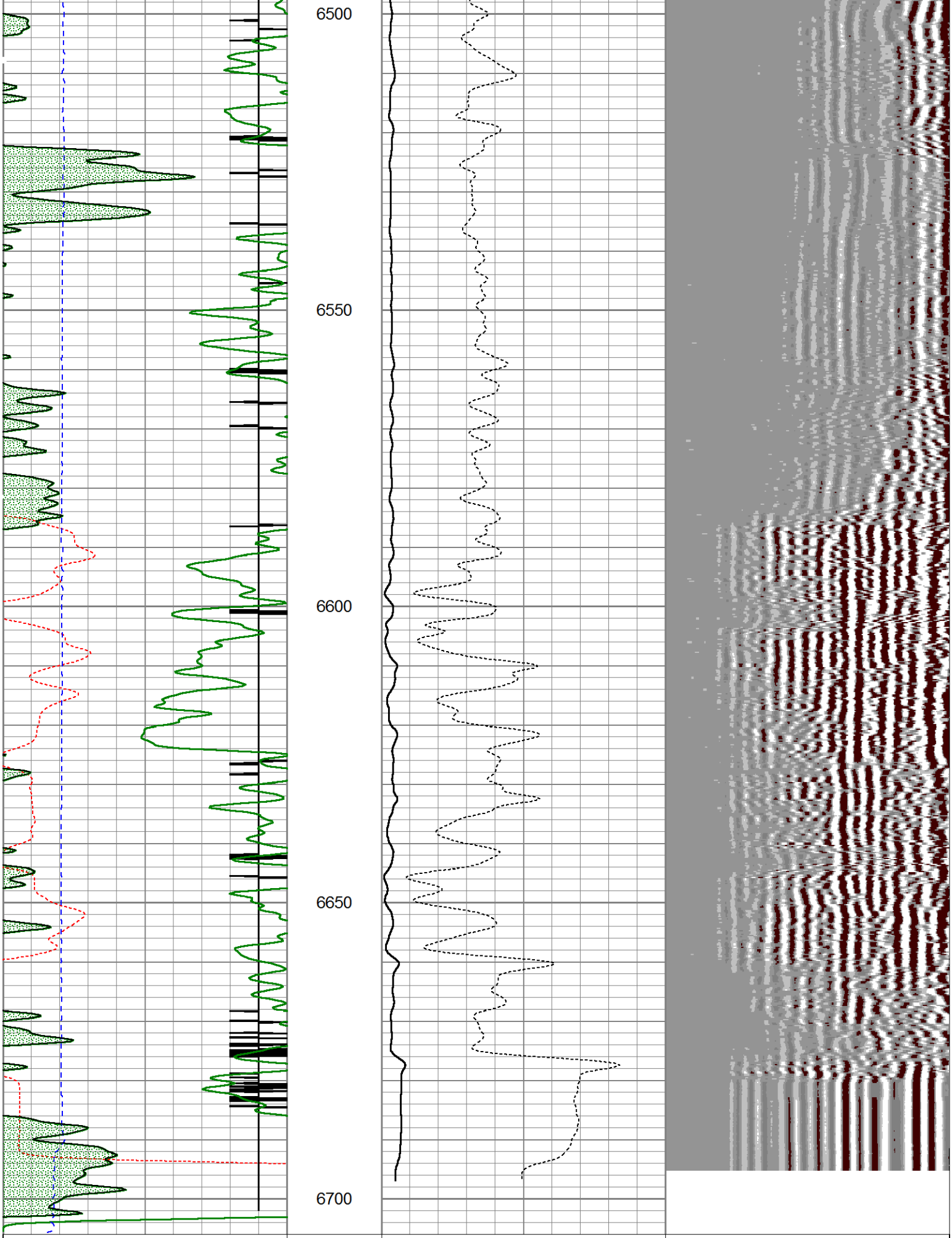

6500
6550
6600
6650
6700
400 Travel Time (usec) 200
9 Casing Collar -1
0 Amplitude (mV) 100
0 Amplified Amplitude (mV) 10
200 Variable Density 1200

0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

Calibration Report

Database File: E:\ANTELOPEU-Y-17HNB.db
Dataset Pathname: pass2
Dataset Creation: Thu Sep 05 13:24:38 2013 by Log 0

Gamma Ray Calibration Report

Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Mon Jul 01 16:56:15 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	101224	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	316.392	ft

Master Calibration, performed Thu Sep 05 12:44:17 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.021	0.637	2.700	62.165	90.439	4.959
CAL	-0.021	0.786				
5'	-0.021	0.399	2.700	62.165	141.849	5.628
SUM						
S1	-0.021	0.657	0.000	100.000	147.457	3.051
S2	-0.021	0.698	0.000	100.000	139.069	2.862
S3	-0.021	0.703	0.000	100.000	138.180	2.847
S4	-0.021	0.677	0.000	100.000	143.312	2.971
S5	-0.021	0.612	0.000	100.000	158.077	3.288
S6	-0.021	0.566	0.000	100.000	170.379	3.571
S7	-0.021	0.536	0.000	100.000	179.507	3.736
S8	-0.021	0.573	0.000	100.000	168.307	3.511

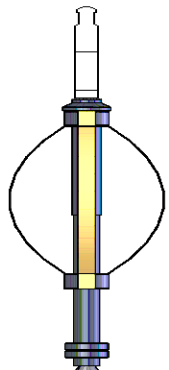
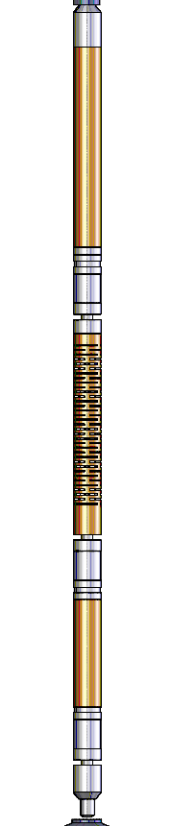
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

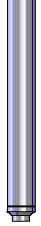
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.021	0.786	1.000	0.000

Air Zero Calibration, performed Fri Aug 09 10:42:06 2013:

Raw (v)	Calibrated (v)	Results
Zero	Zero	Offset

3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
WVF3FT	11.84		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.84					
WVFS1	11.84					
WVFS2	11.84					
WVFS3	11.84					
WVFS4	11.84					
WVFS5	11.84					
WVFS6	11.84					
WVFS7	11.84					
WVFS8	11.84					
WVF5FT	10.84					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	3.88					
GR	2.54		GR-Probe275 (110108-Dig)	4.78	2.75	57.00

			GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	37.00

Dataset:	ANTELOPEU-Y-17HNB.db: field/well/run1/pass2
Total Length:	20.28 ft
Total Weight:	197.00 lb
O.D.	2.75 in