ALLIED WIRELINE

Cement Bond
Variable Density Log
W/ Gamma Ray/CCL

Company Bonanza Creek Energy
Well State Seventy HolesA11-E14-3HNC
Field Wattenberg
County Weld State Colorado
Location: API # : 05-123-38885 Other Services
SEC 3 TWP 4N RGE 62W NONE

				Elevation
Permanent Datum	Ground Level	Elevation	4534'	K.B. 4550'
Log Measured From	Kelly Bushing 16' APD			D.F. 4549'
Drilling Measured From	Kelly Bushing			G.L. 4534'

Company Bonanza Creek Energy
Well State Seventy HolesA11-E14-3HNC
Field Wattenberg
County Weld
State Colorado

Date	4/19/2014
Run Number	1
Depth Driller	-
Depth Logger	6222'
Bottom Logged Interval	6265'
Top Log Interval	Surface
Open Hole Size	8.75
Type Fluid	Fresh Water
Density / Viscosity	8.33
Max. Recorded Temp.	-
Estimated Cement Top	Surface
Time Well Ready	1303
Time Logger on Bottom	1332
Equipment Number	13033
Location	Brighton
Recorded By	N.Menchaca
Witnessed By	K.Bunker

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Wgt/Ft	Top	Bottom

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	0	427'
Prot. String				
Production String	7"	26#	0	6323'
Liner				

<<< Fold Here >>>

Comments

Primary Log on this Well

Main Pass and Repeat Pass logged with 0 PSI

Logged from 16' Kelly Bushing

Logging Speed Requested by Company

Thank You For using Allied Wireline Services
(303) 659-4609

ALLIED WIRELINE

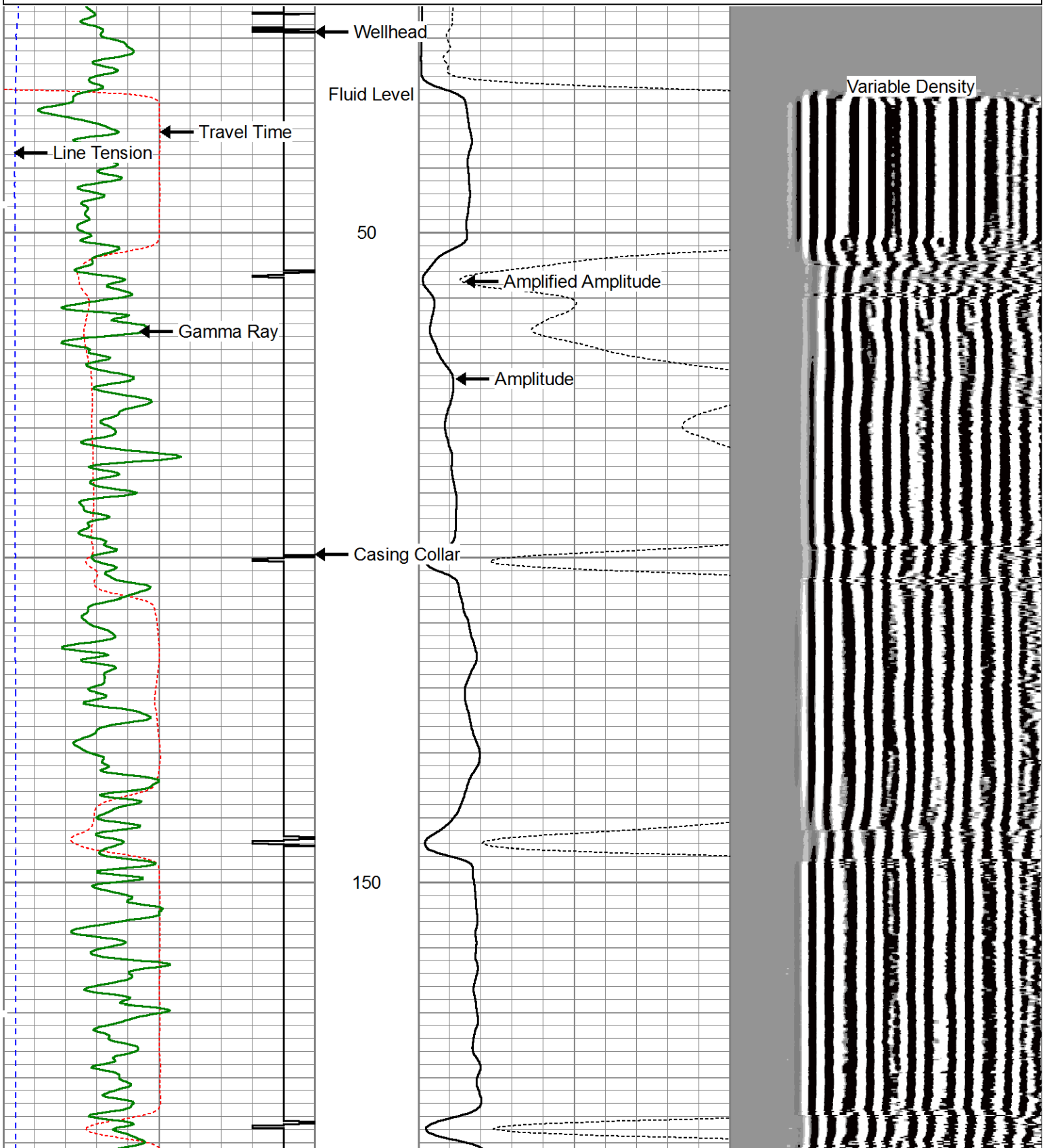
Main Pass (0 P.S.I.)

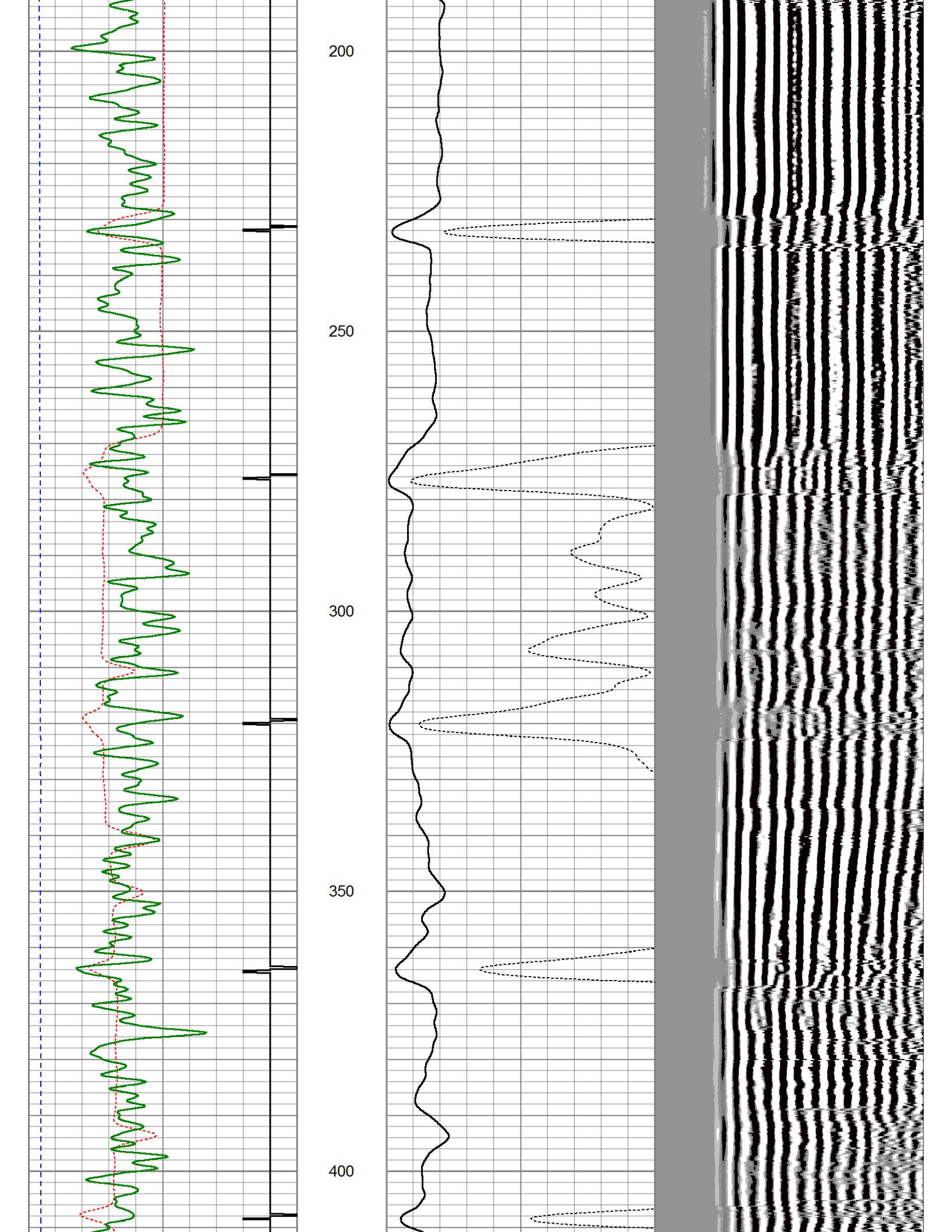
Database File:	c:\users\engineers\desktop\bc sates 70 holes\stateseventyholesa11-e14-3hnc_cbl.db
Dataset Pathname:	pass4
Presentation Format:	cblprobe
Dataset Creation:	Sat Apr 19 15:02:41 2014 by Log 0
Charted by:	Depth in Feet scaled 1:240

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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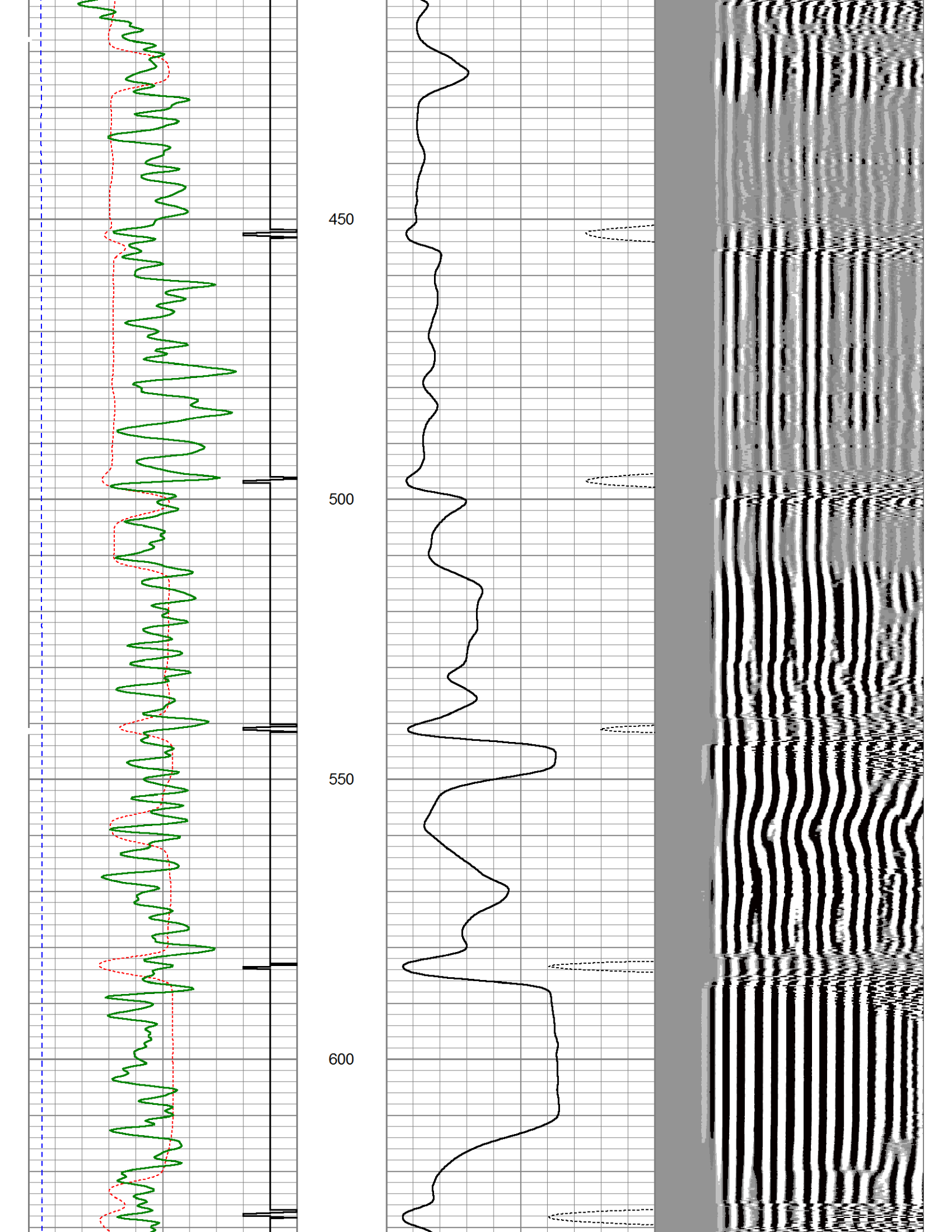
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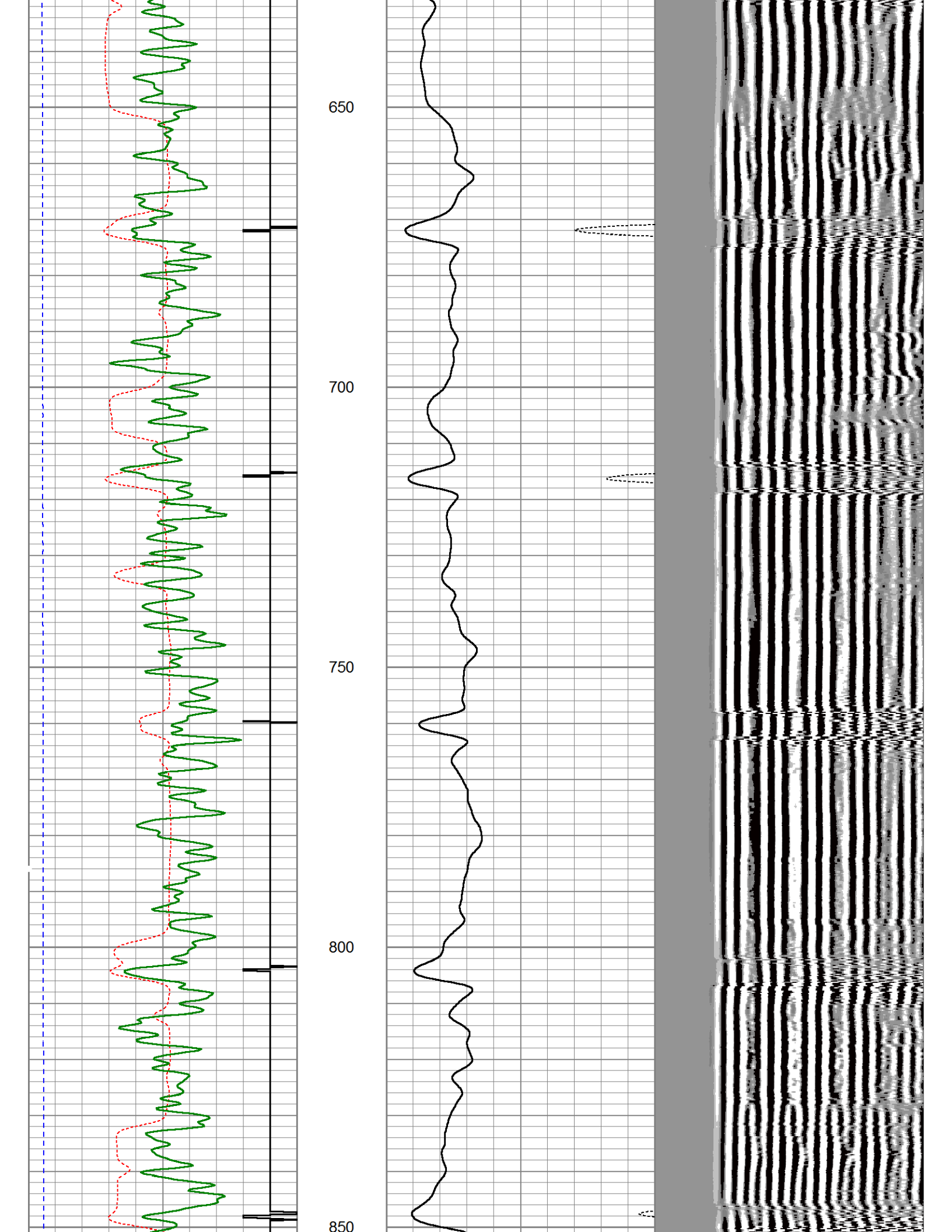
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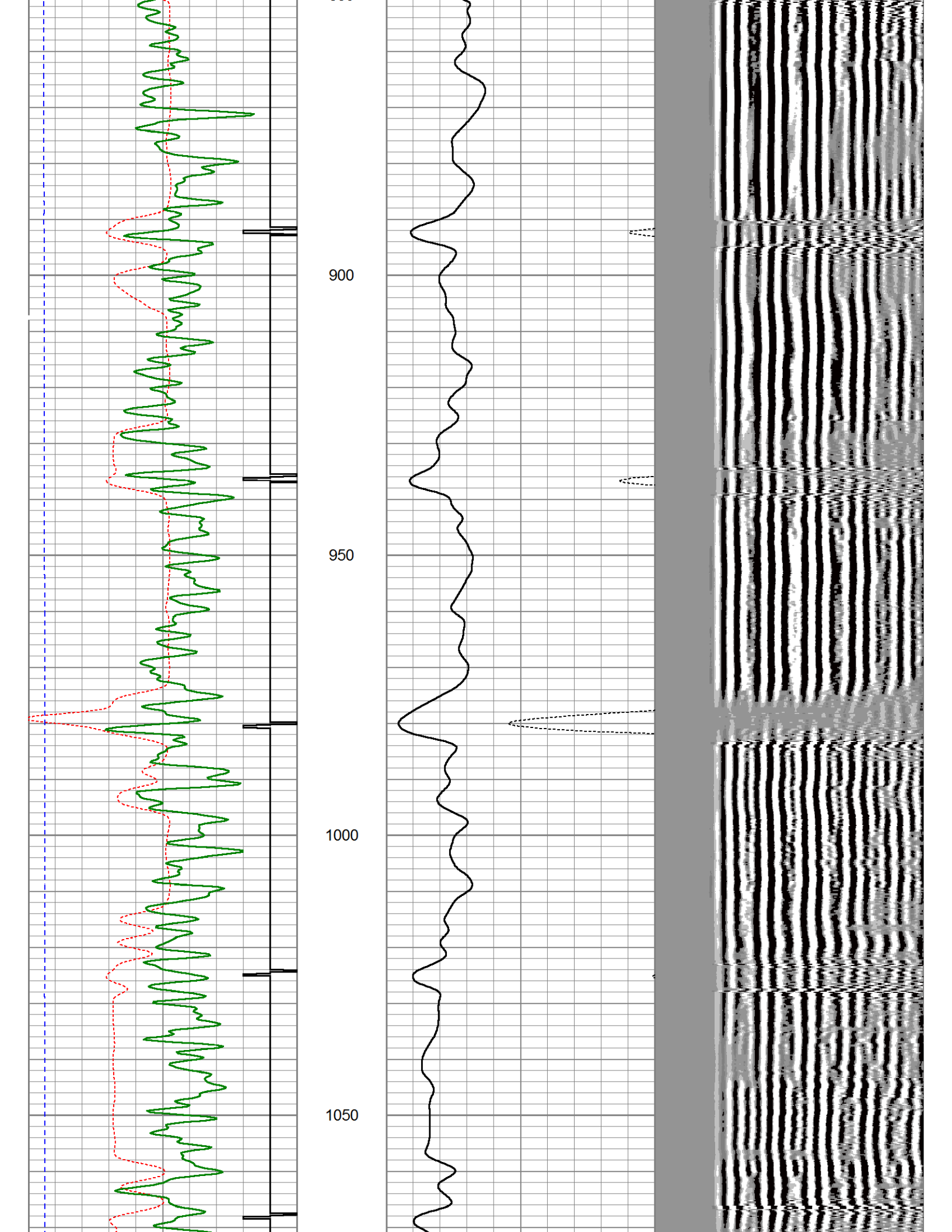
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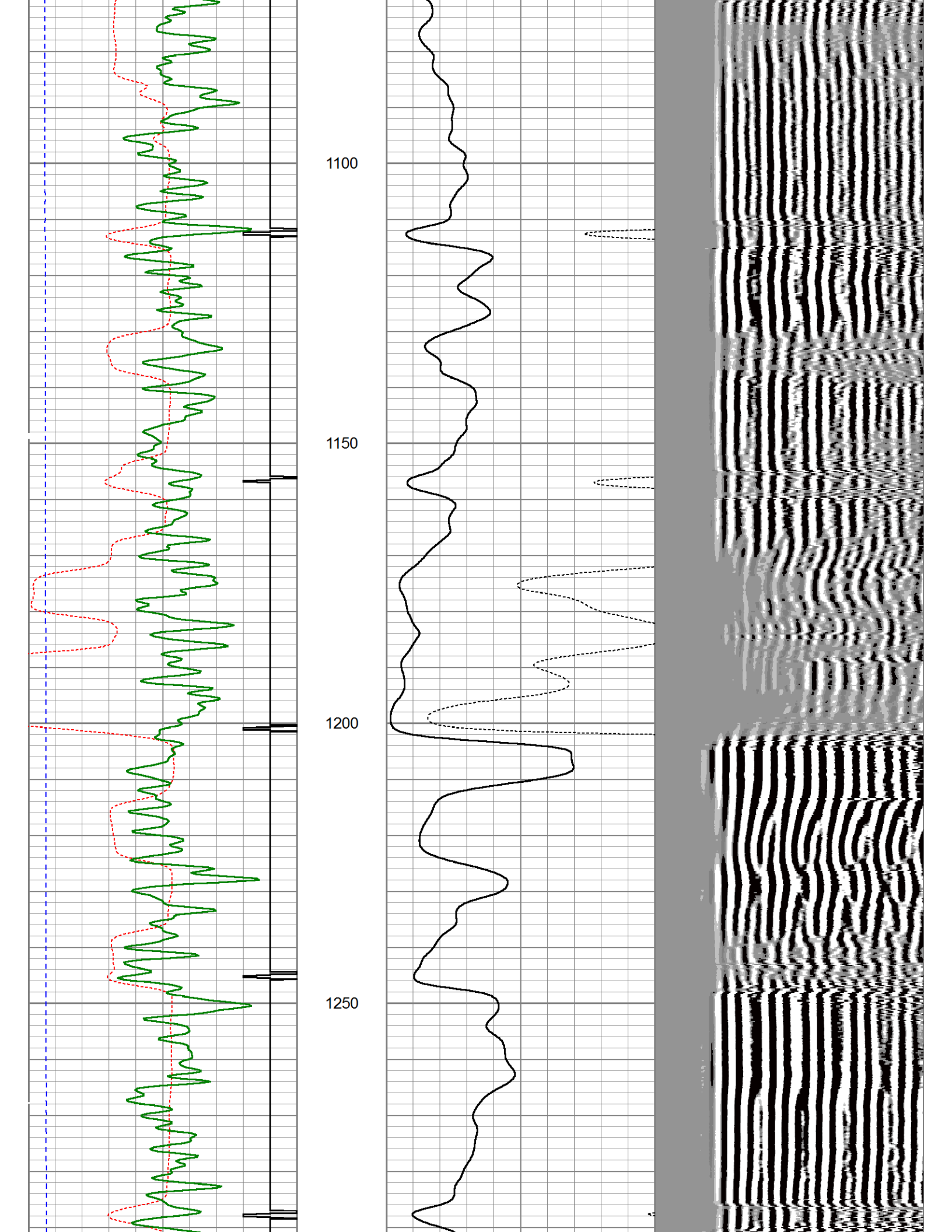
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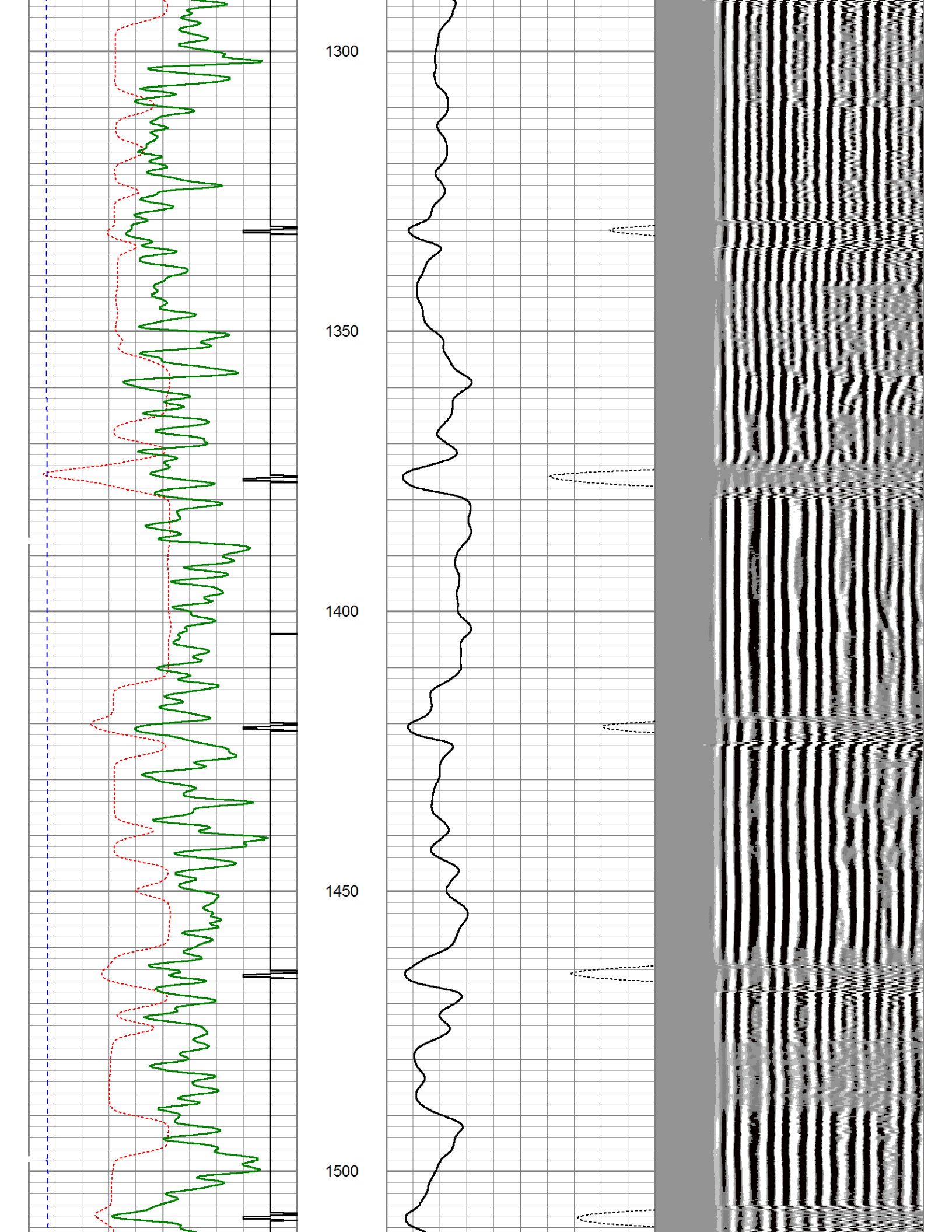
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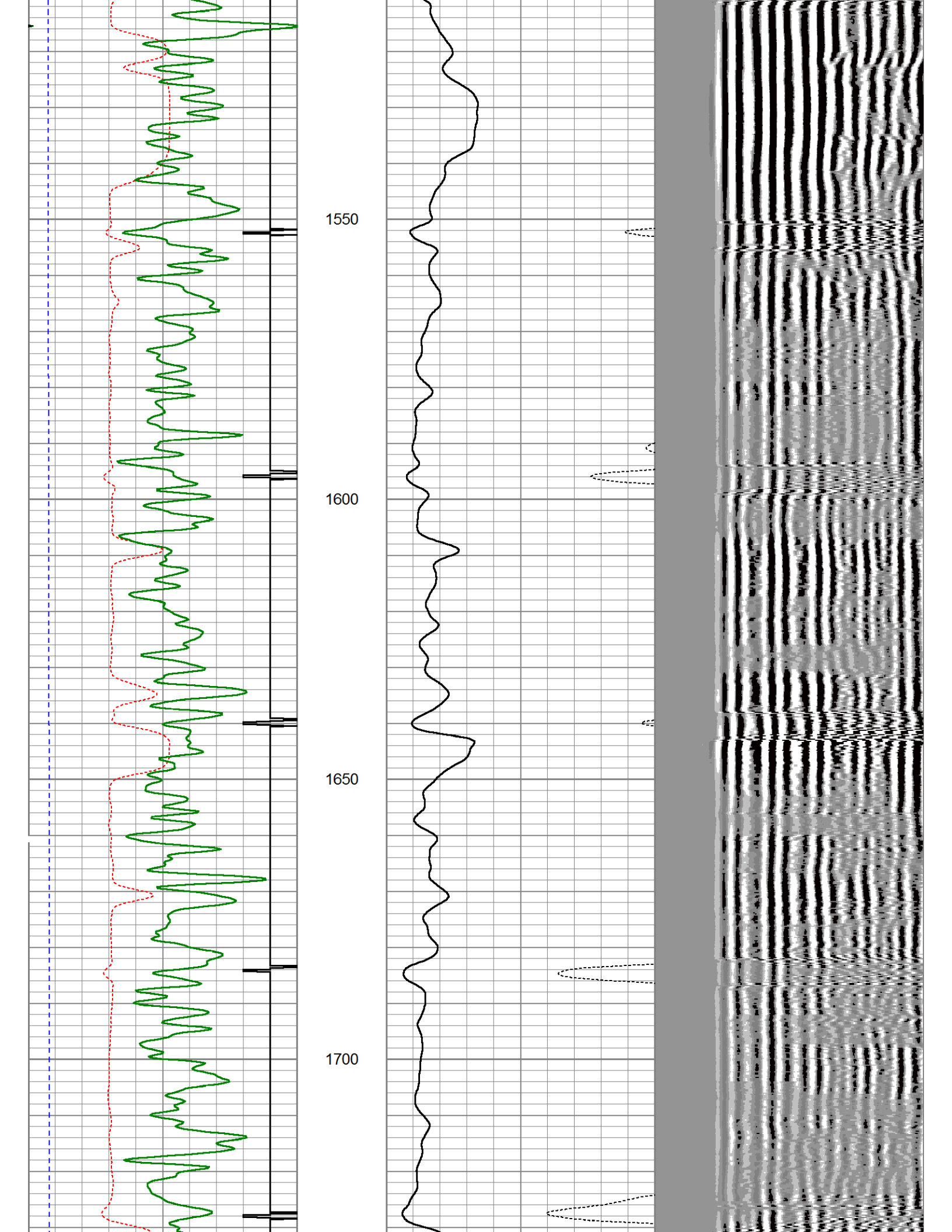
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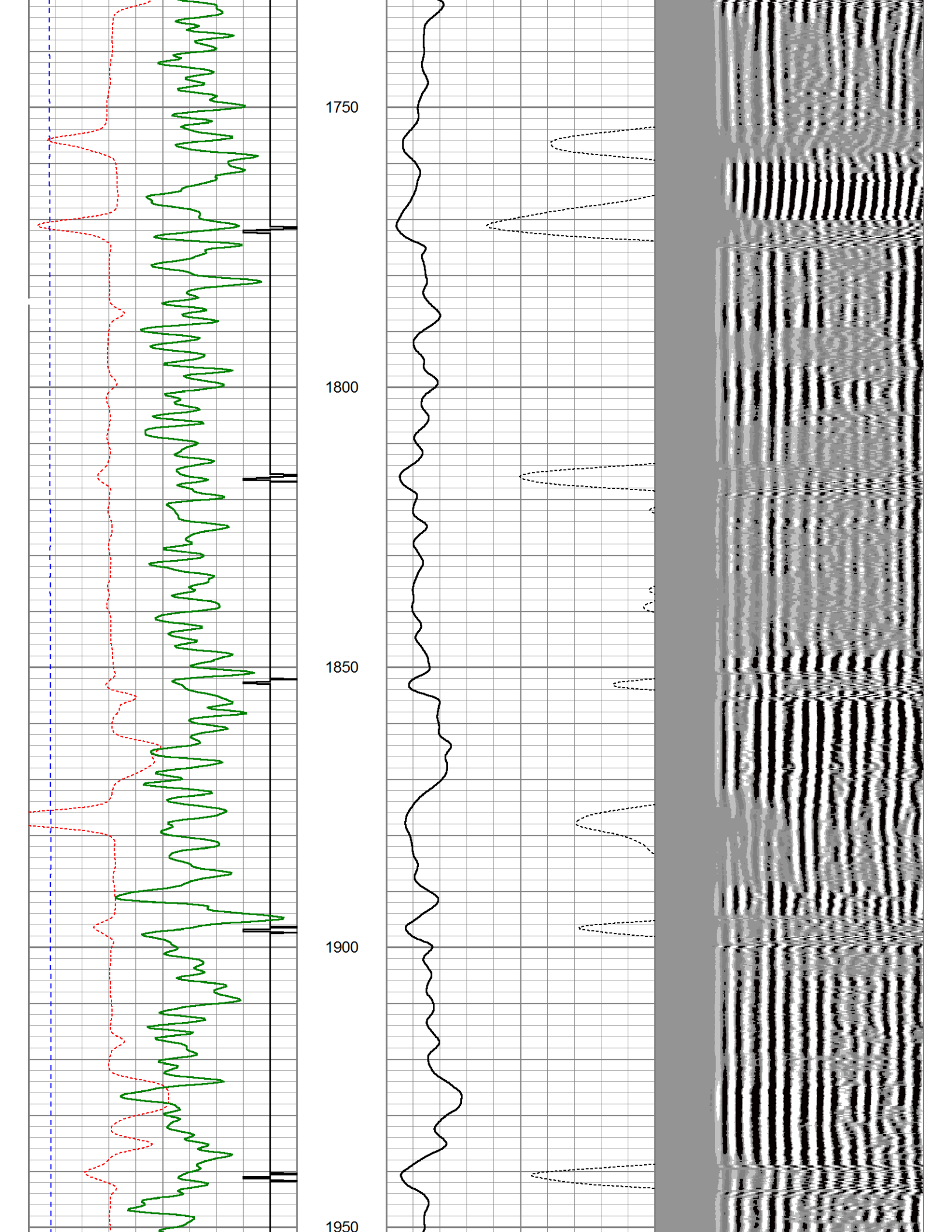
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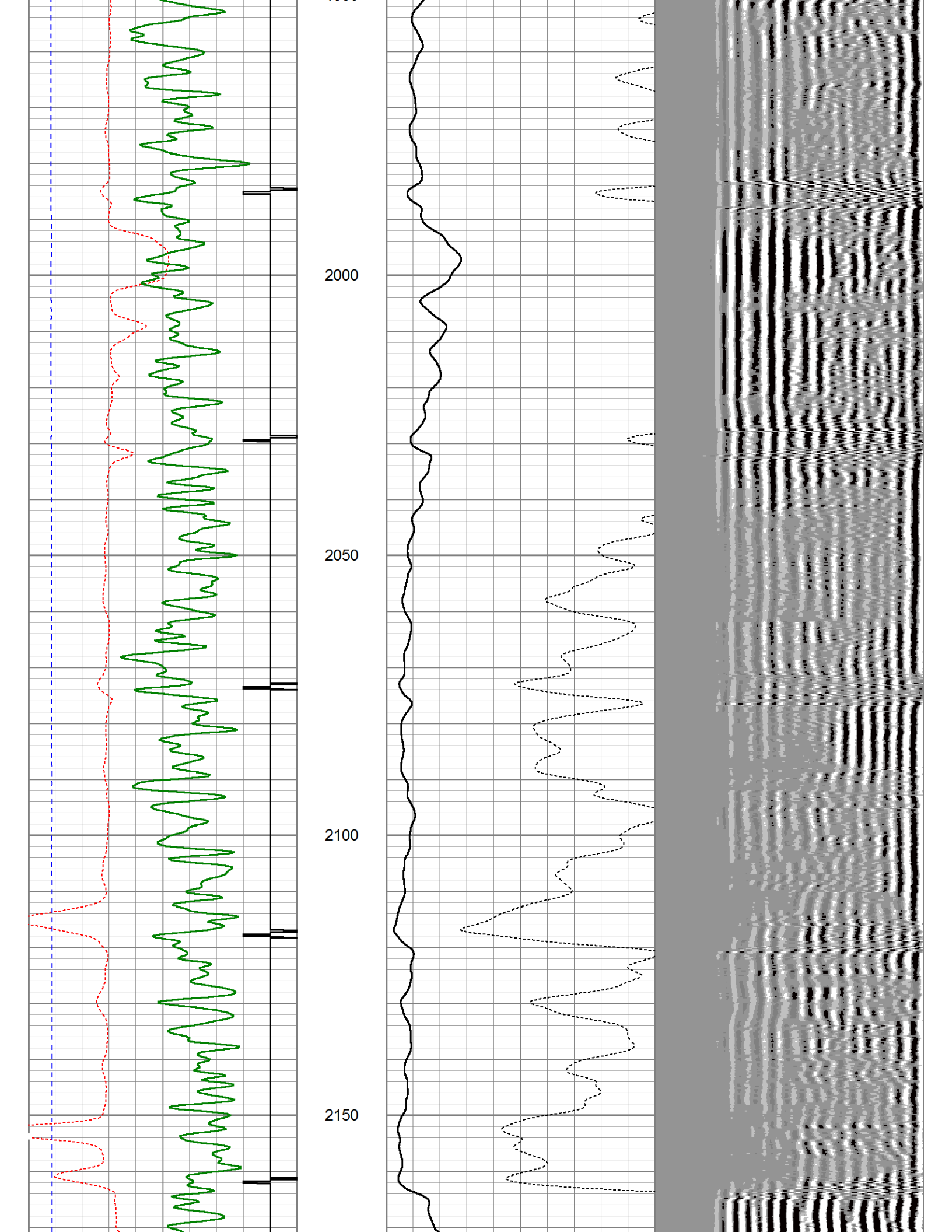
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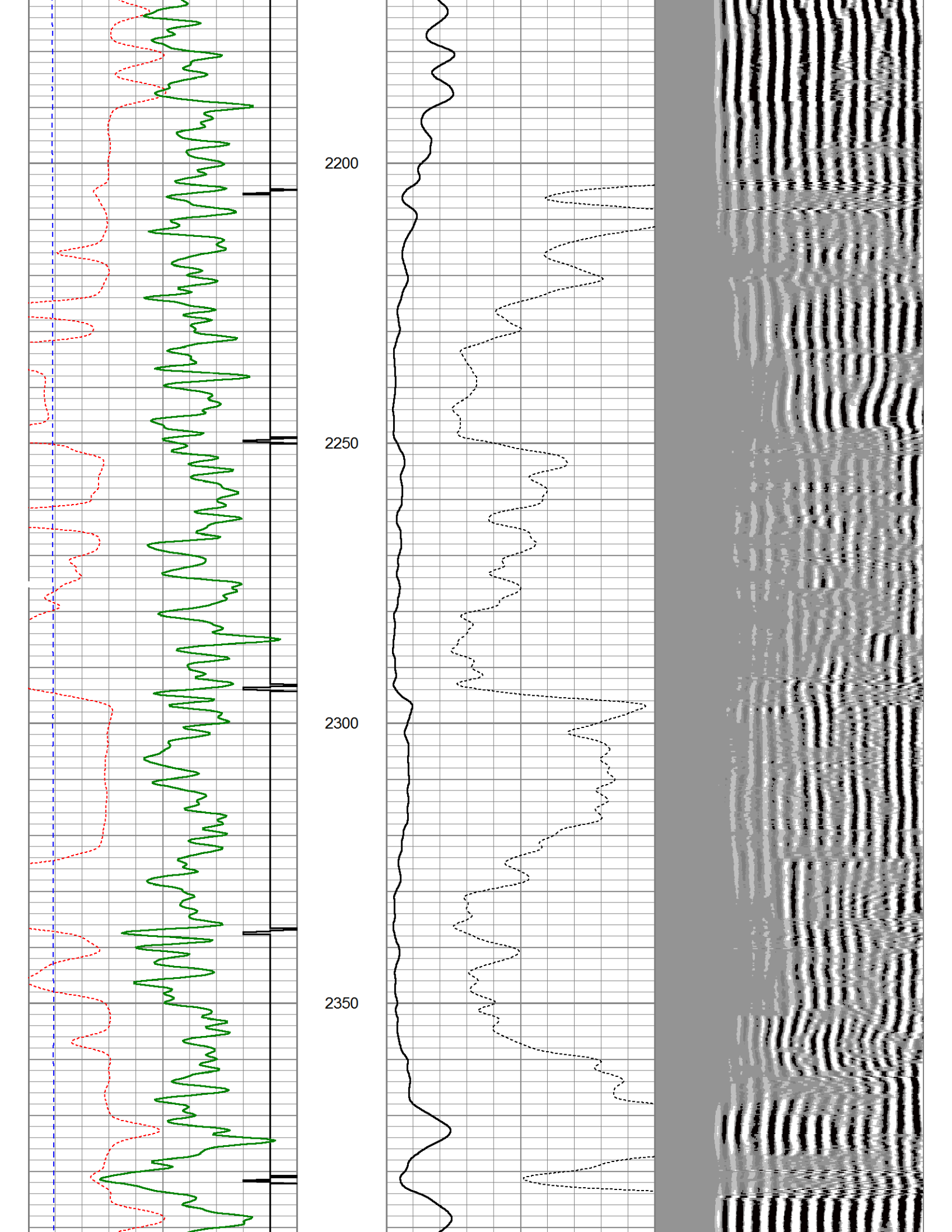
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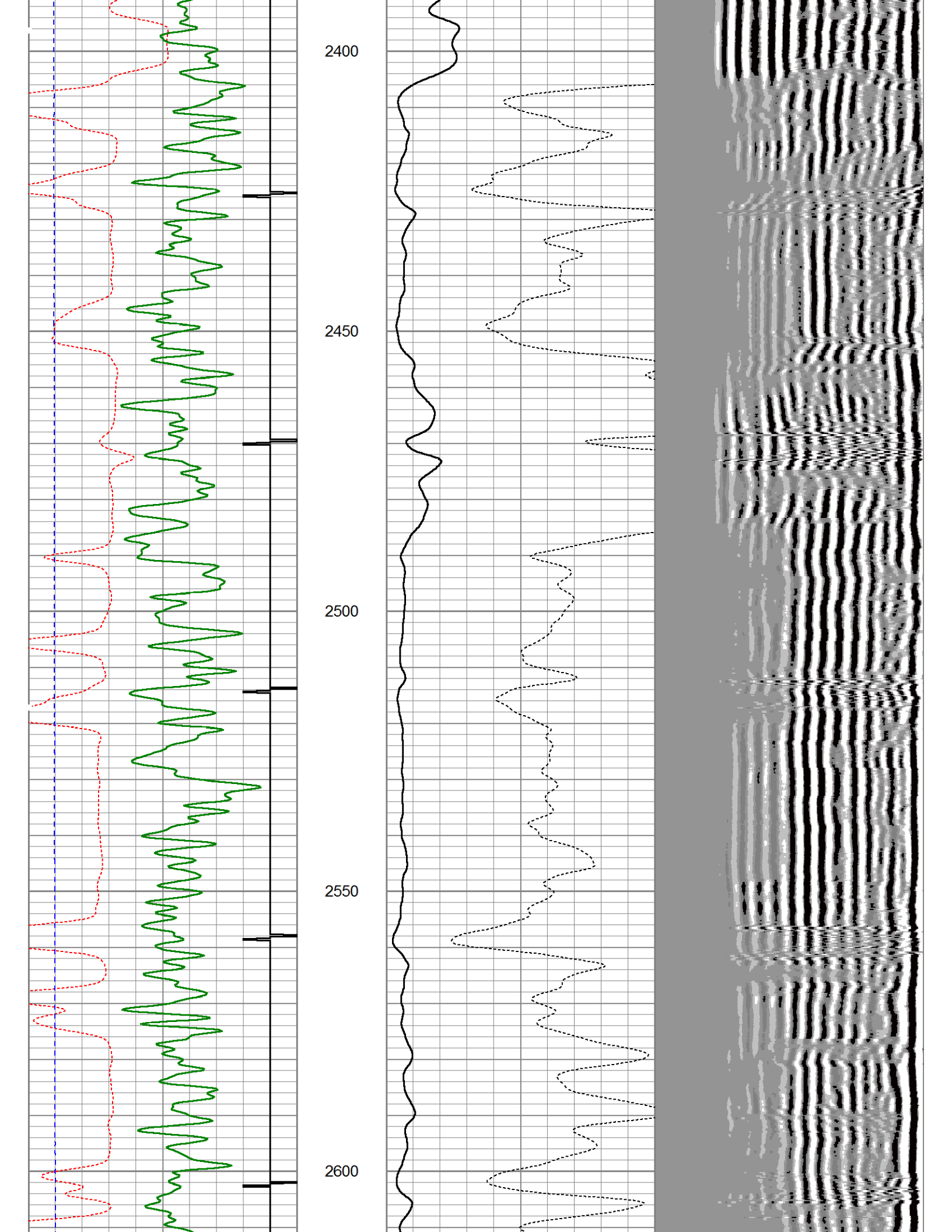
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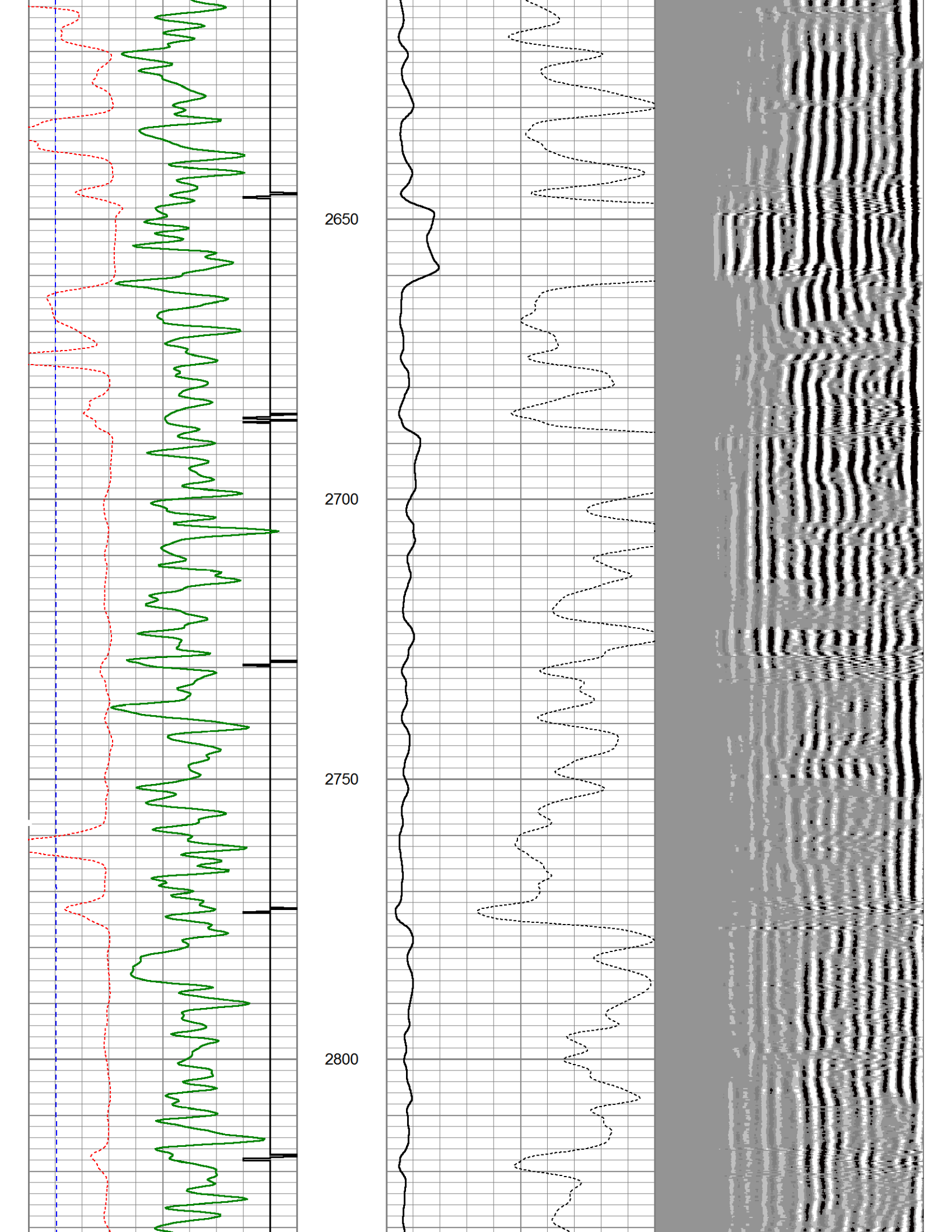
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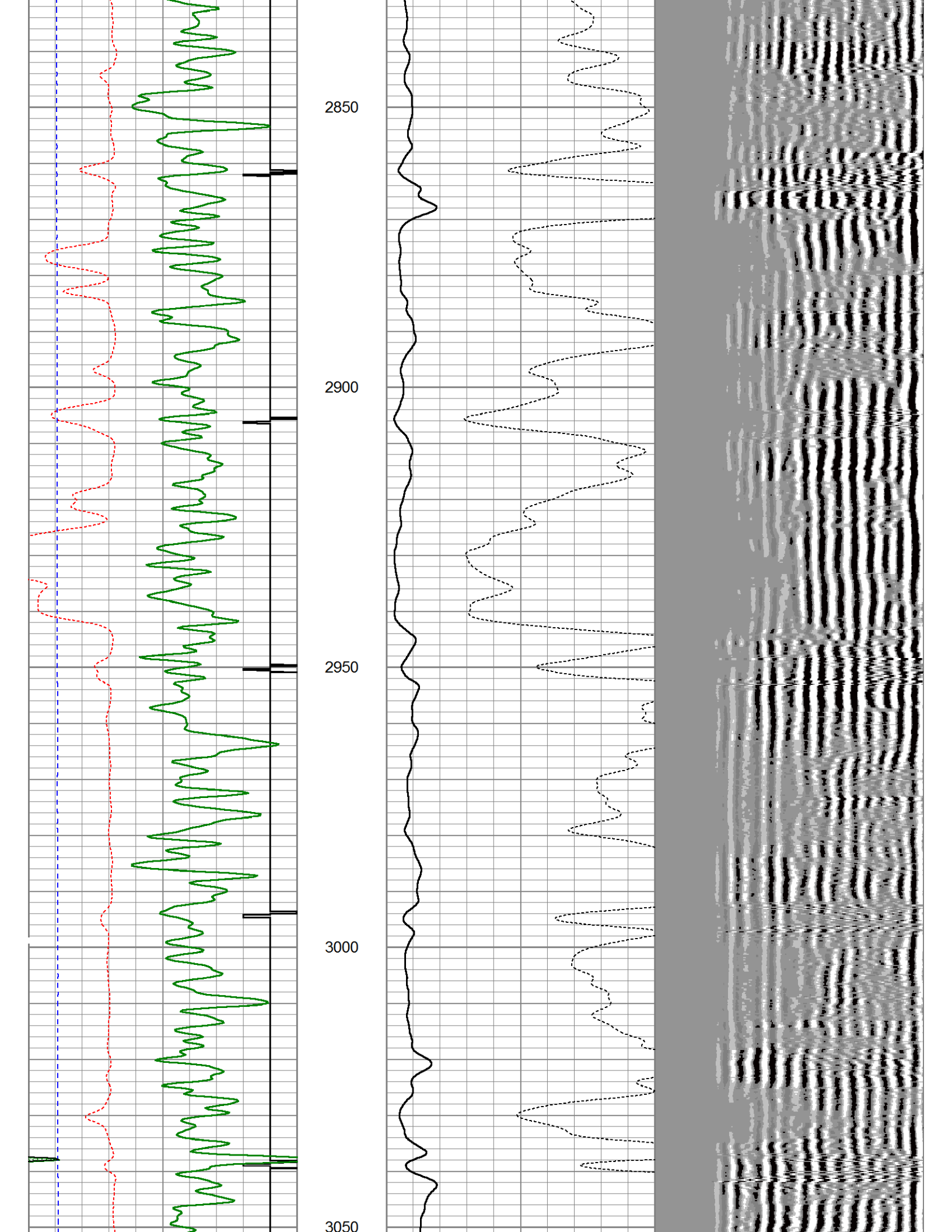
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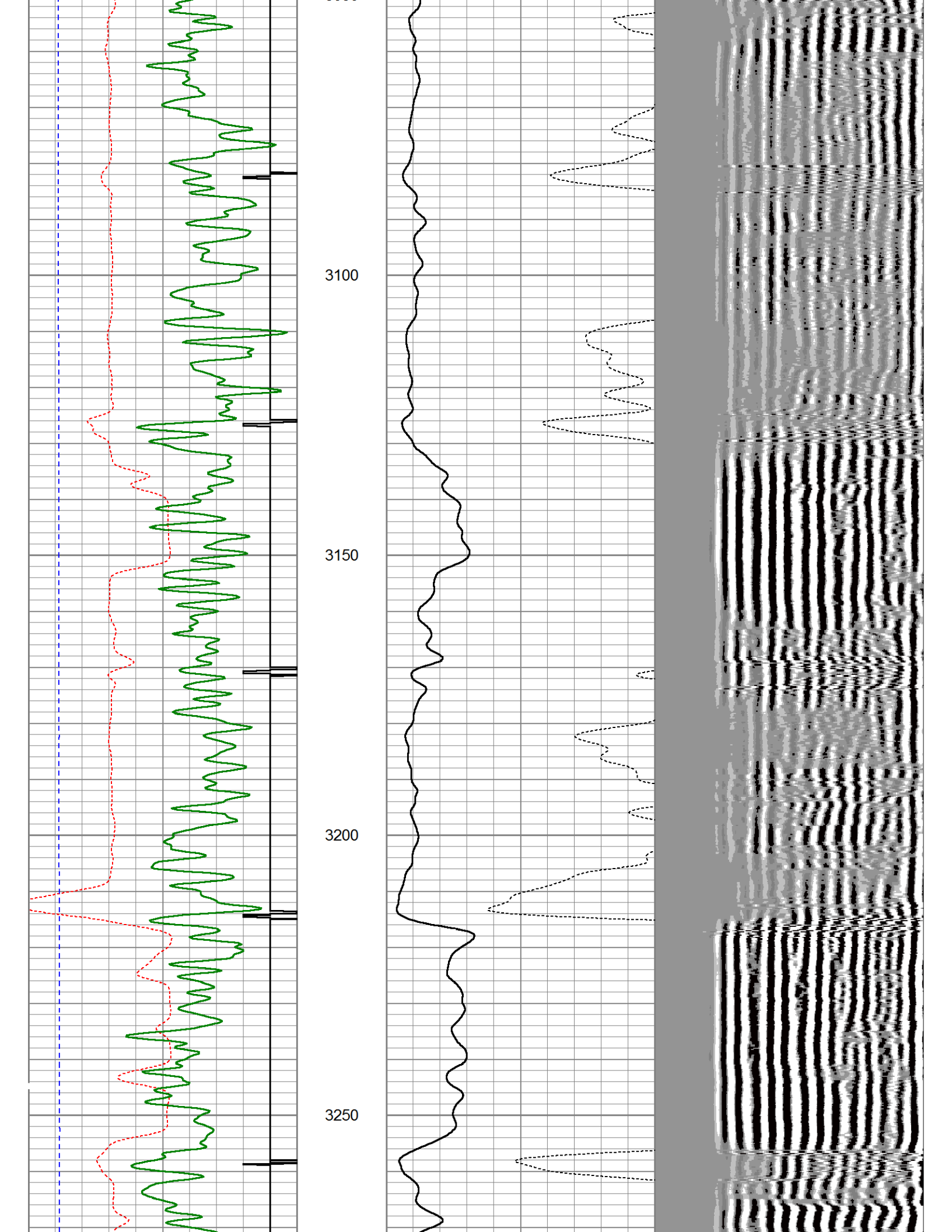
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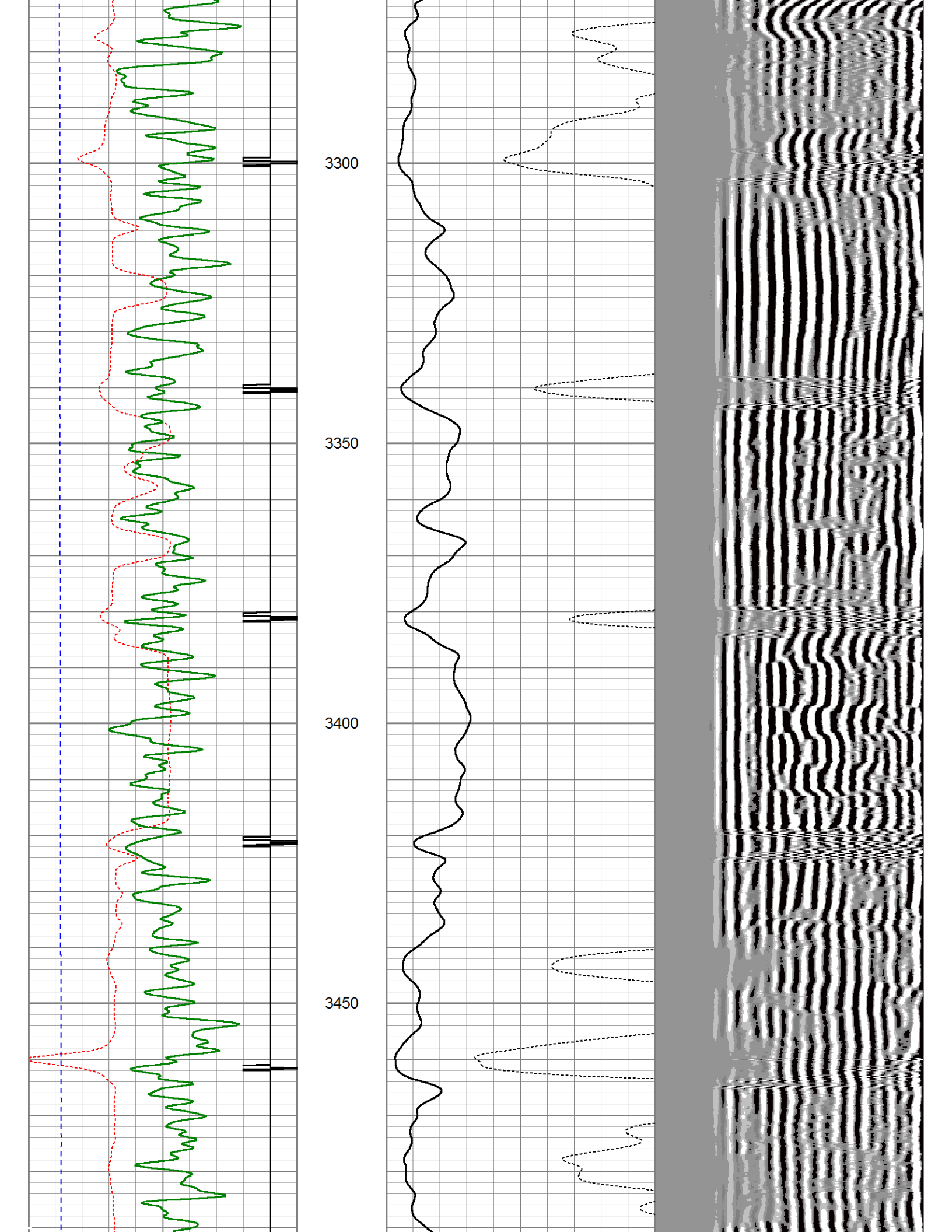
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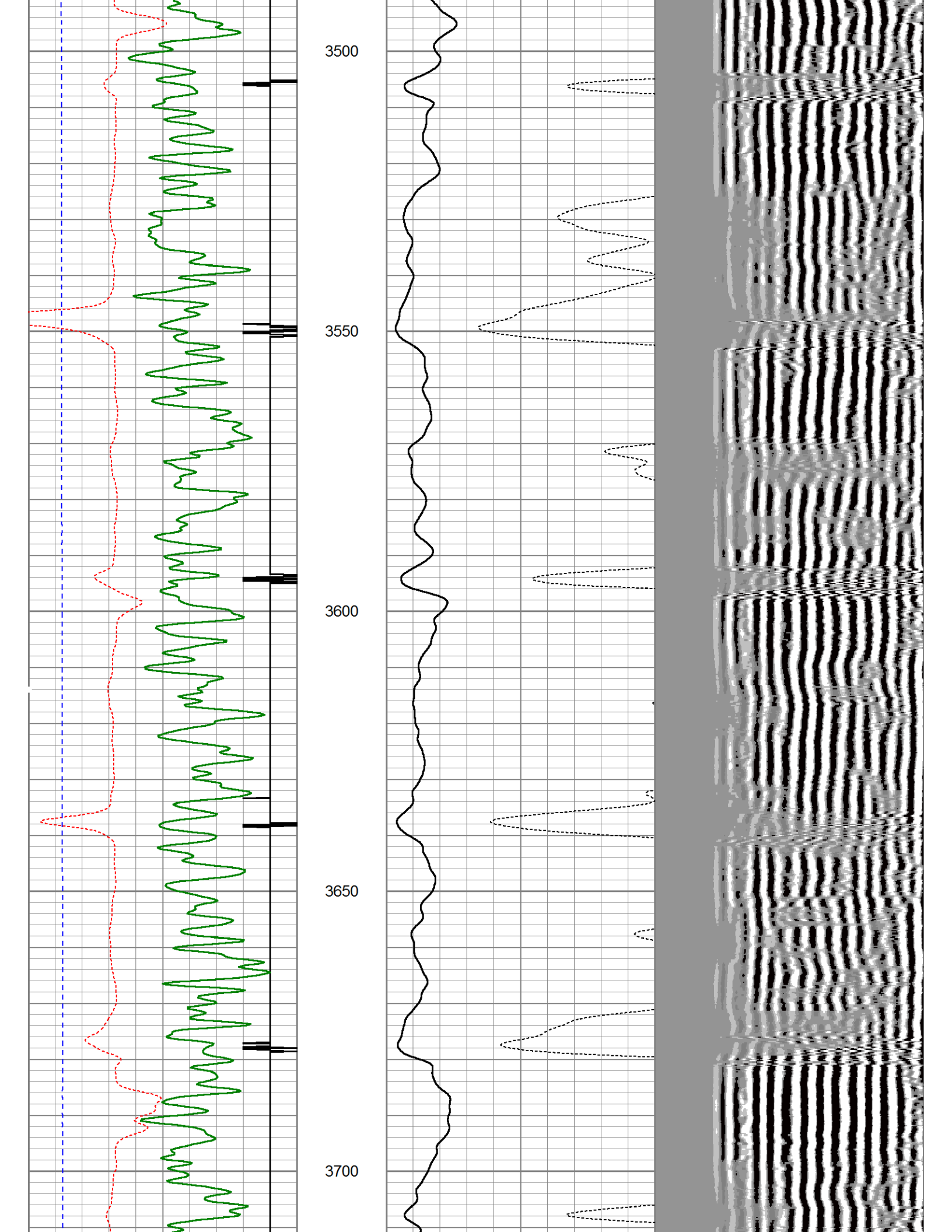
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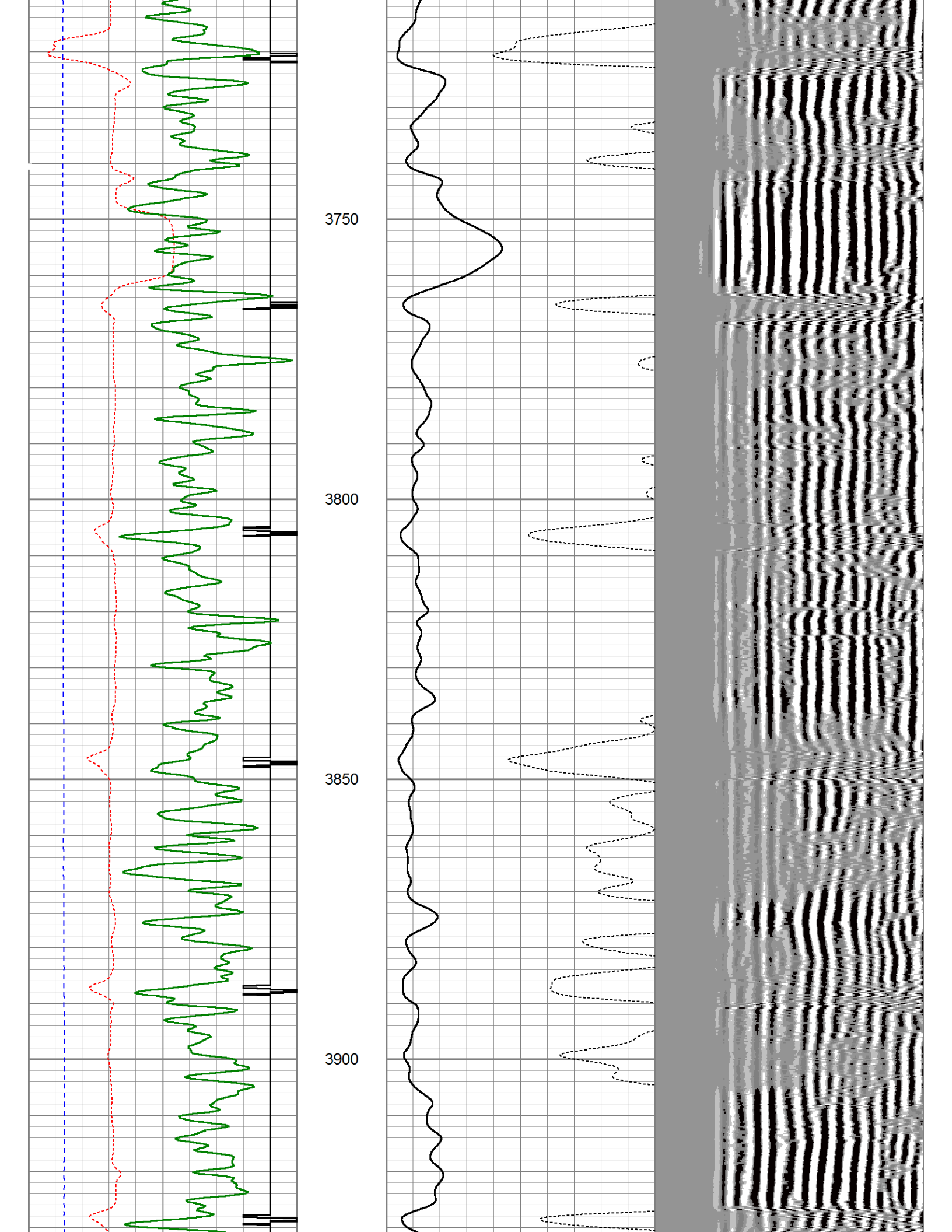
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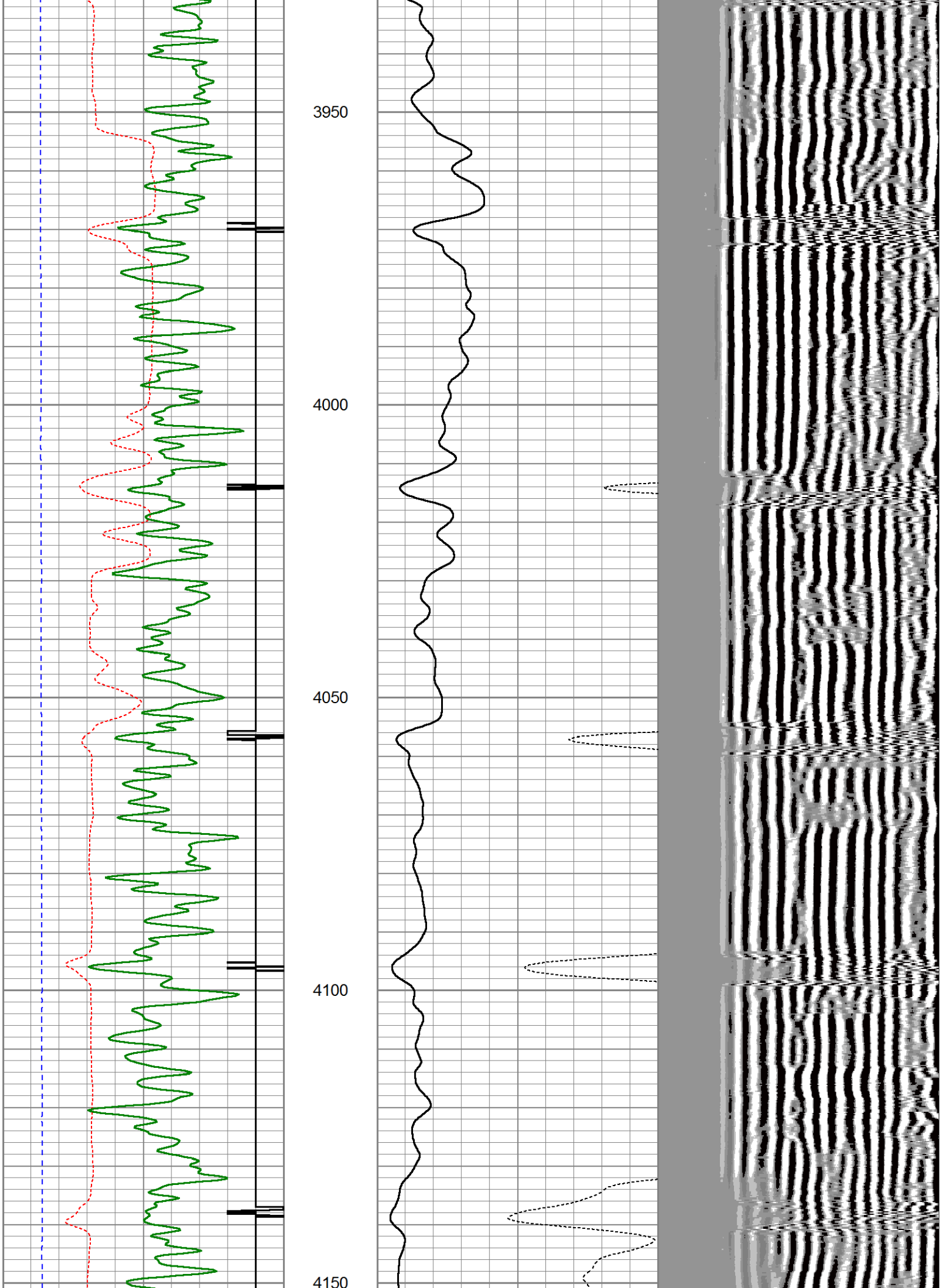
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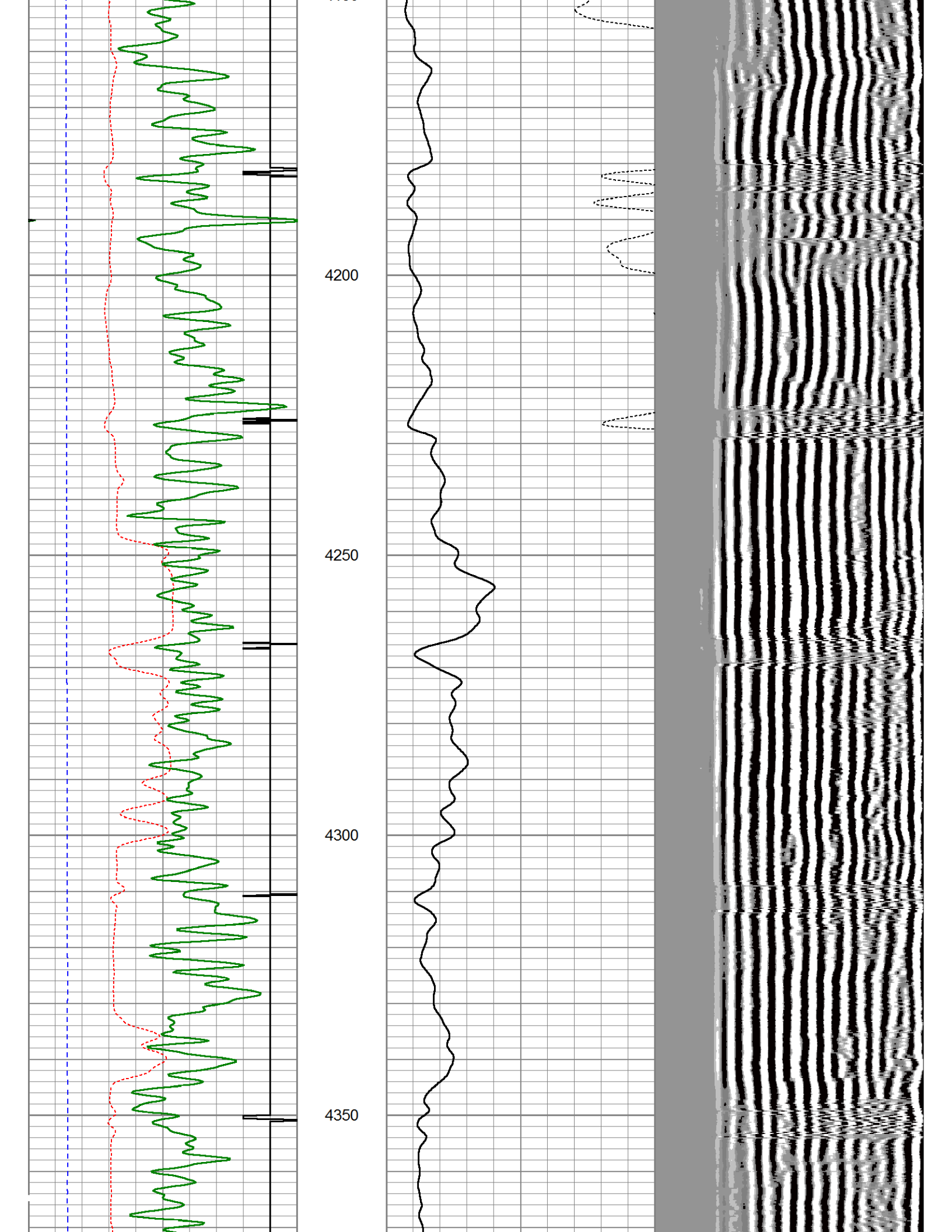
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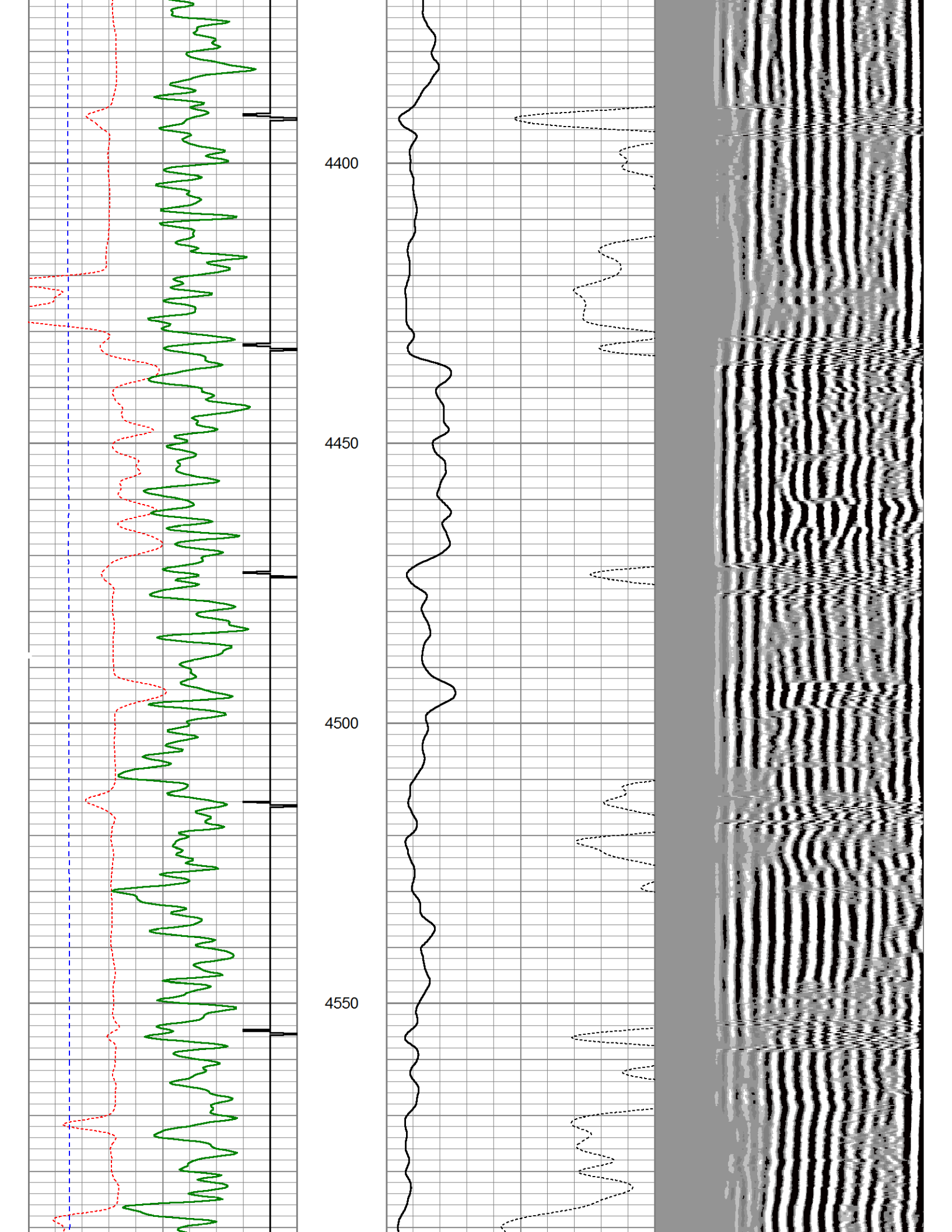
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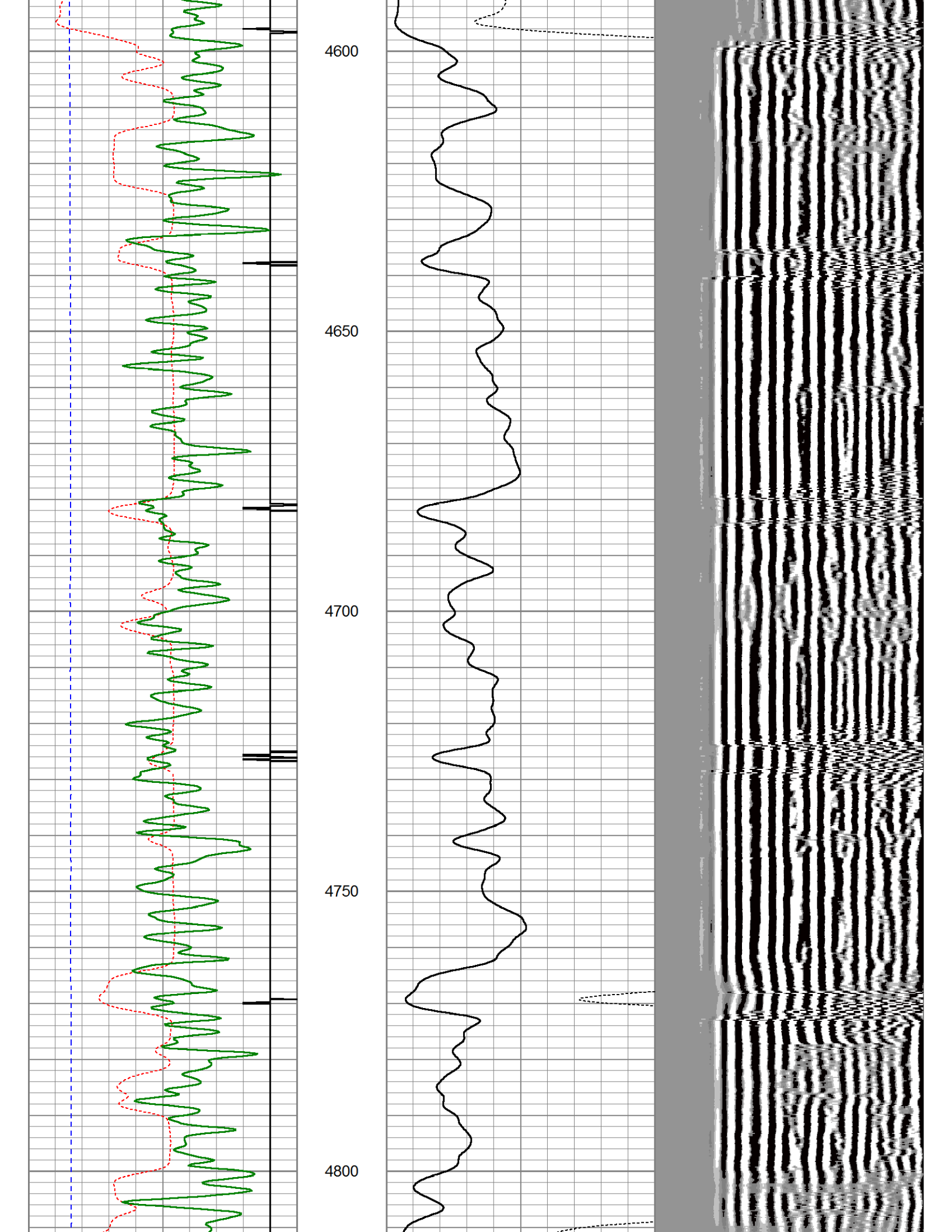
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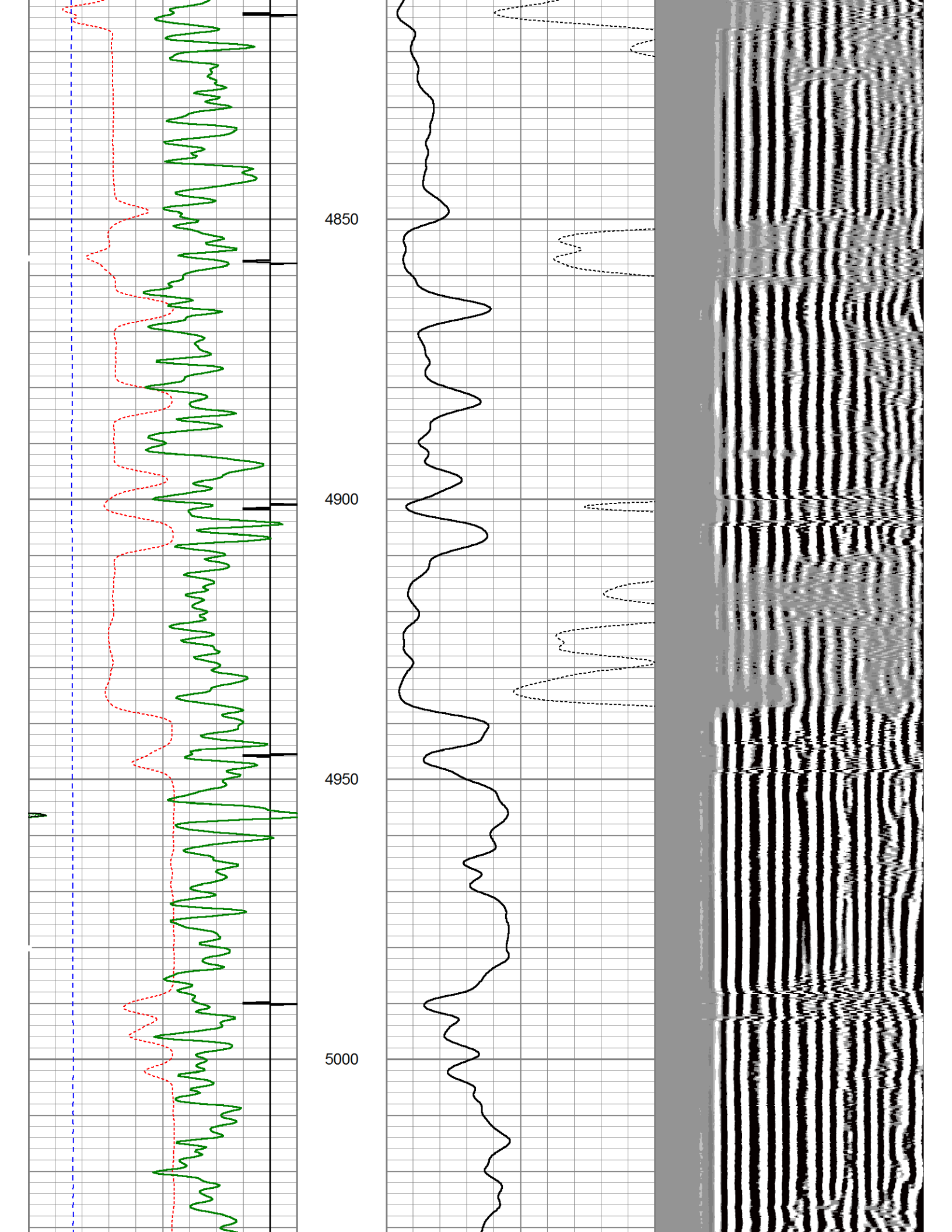
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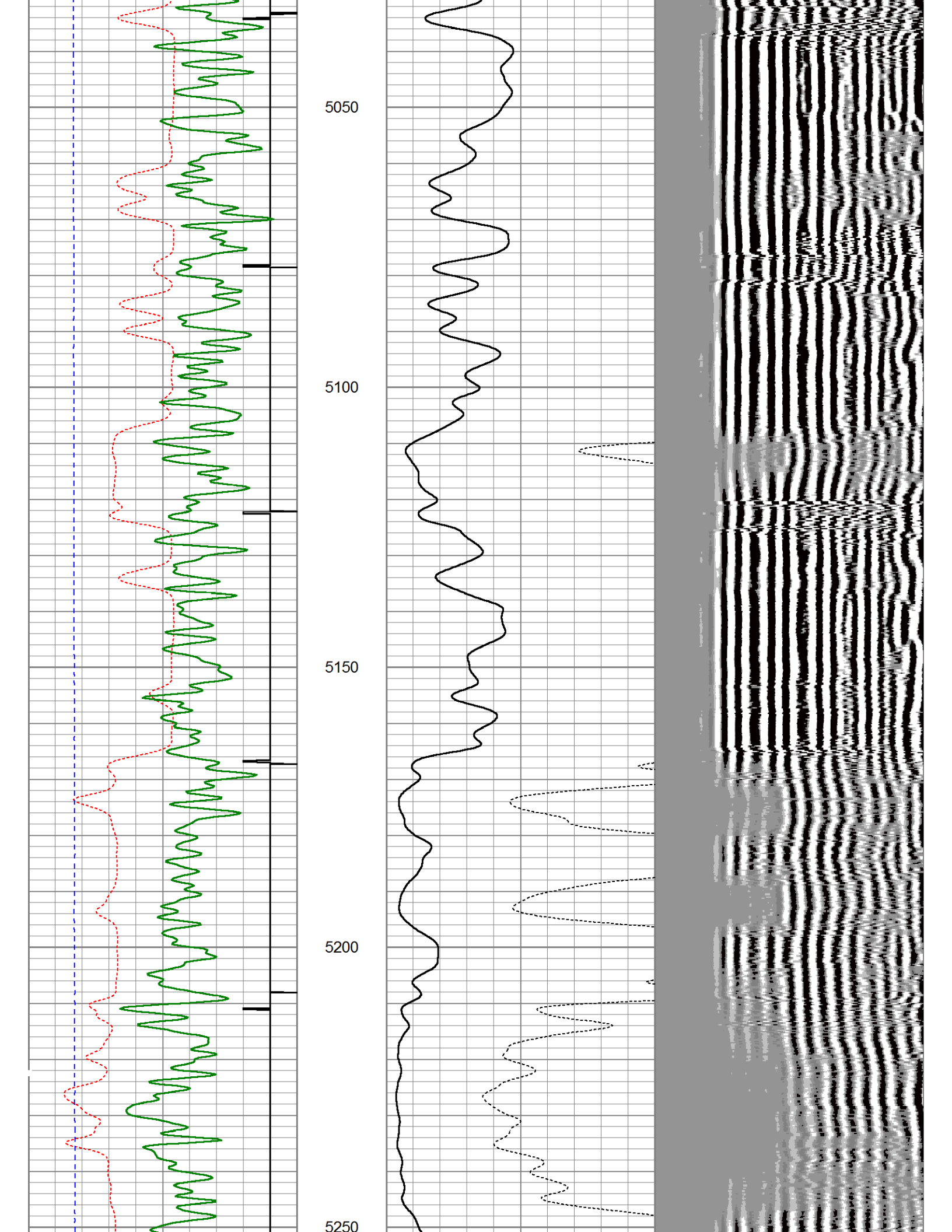
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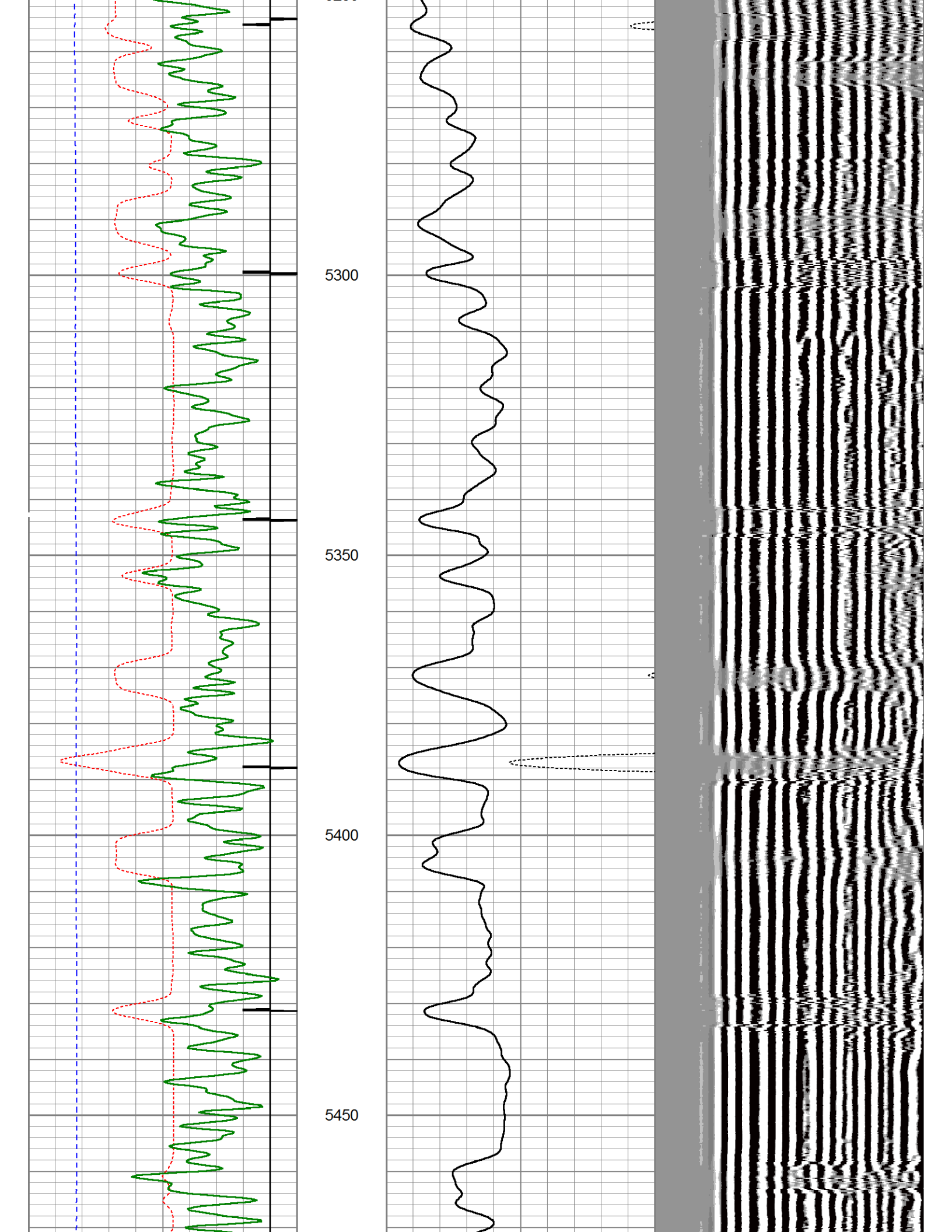
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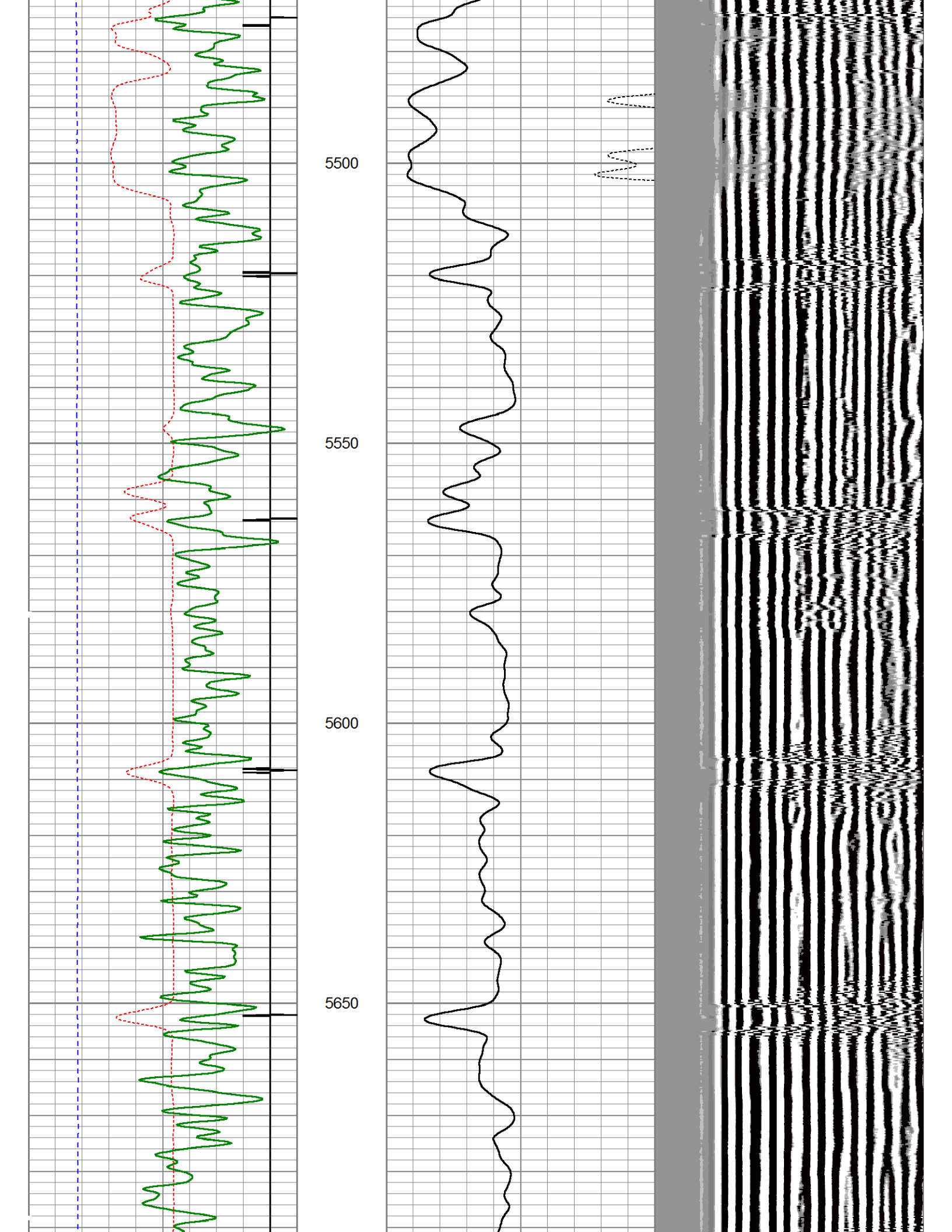
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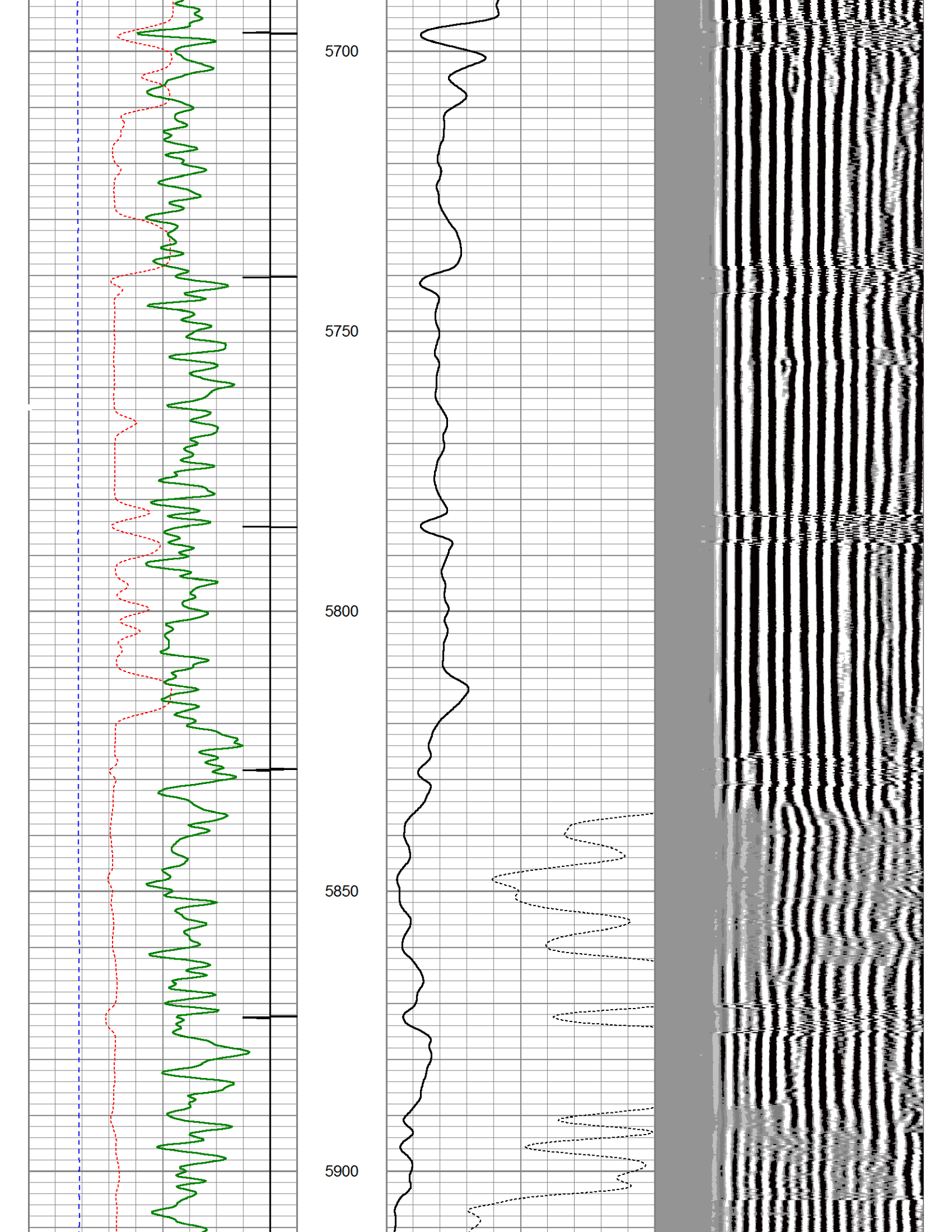
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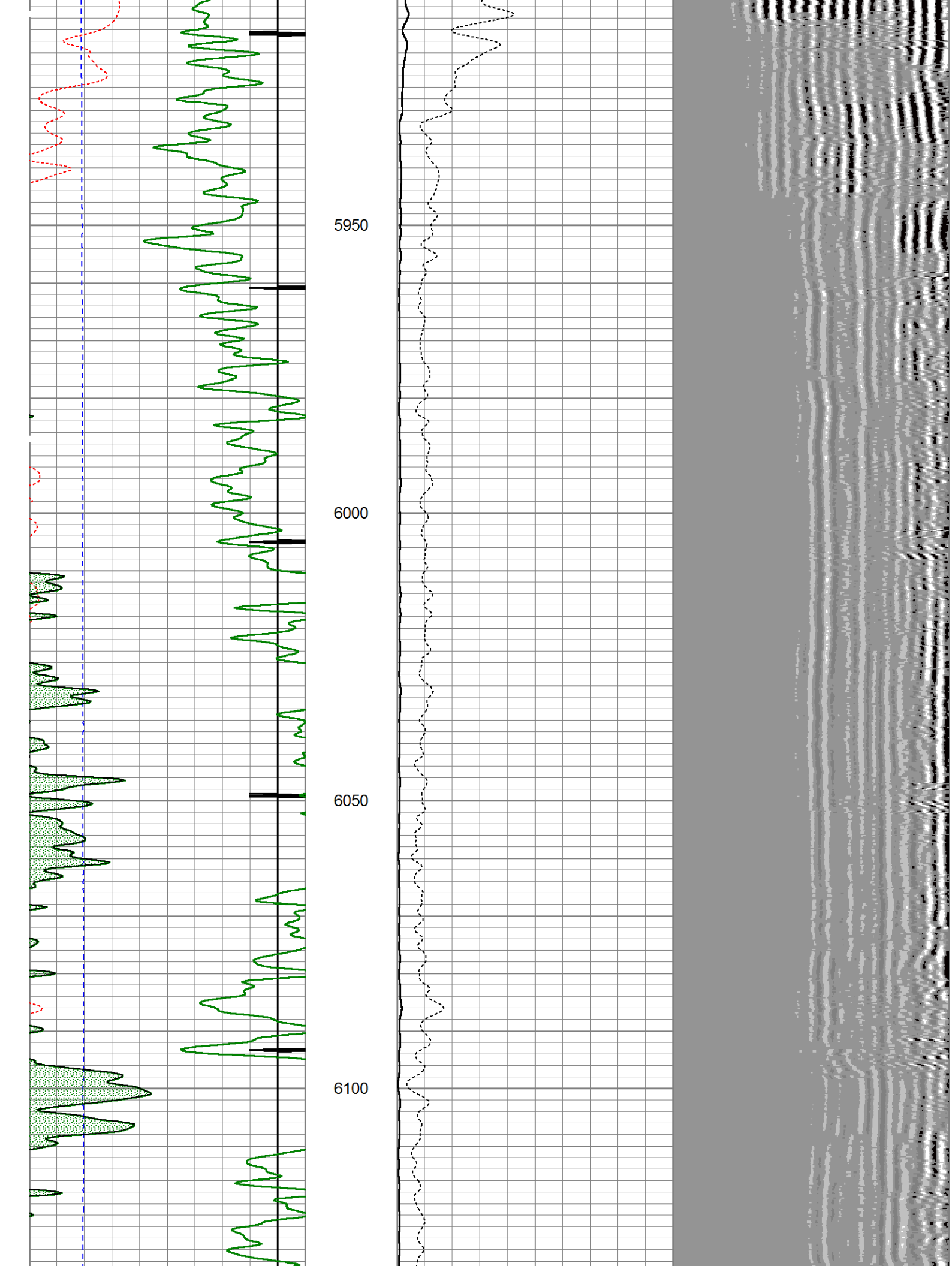
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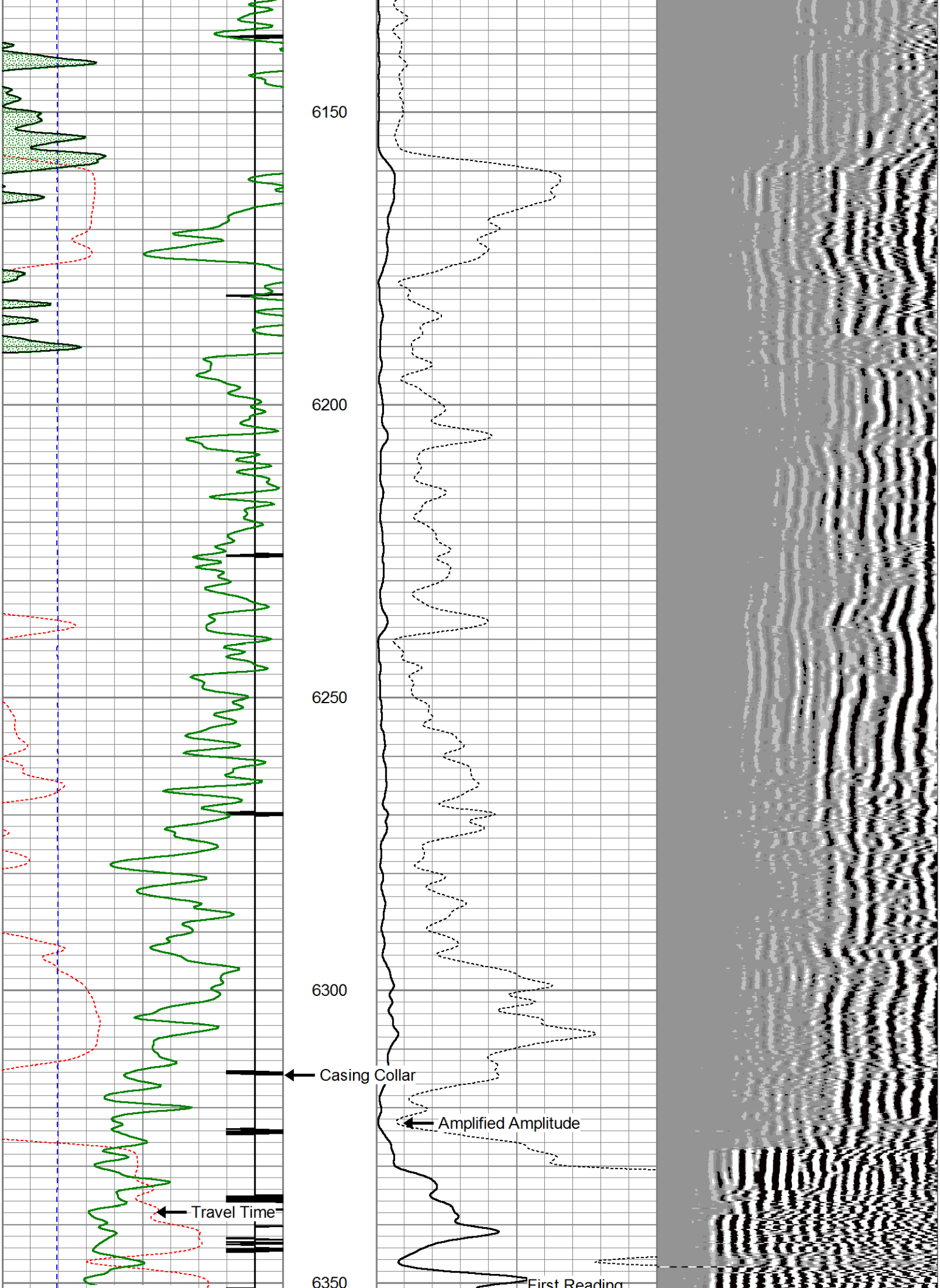
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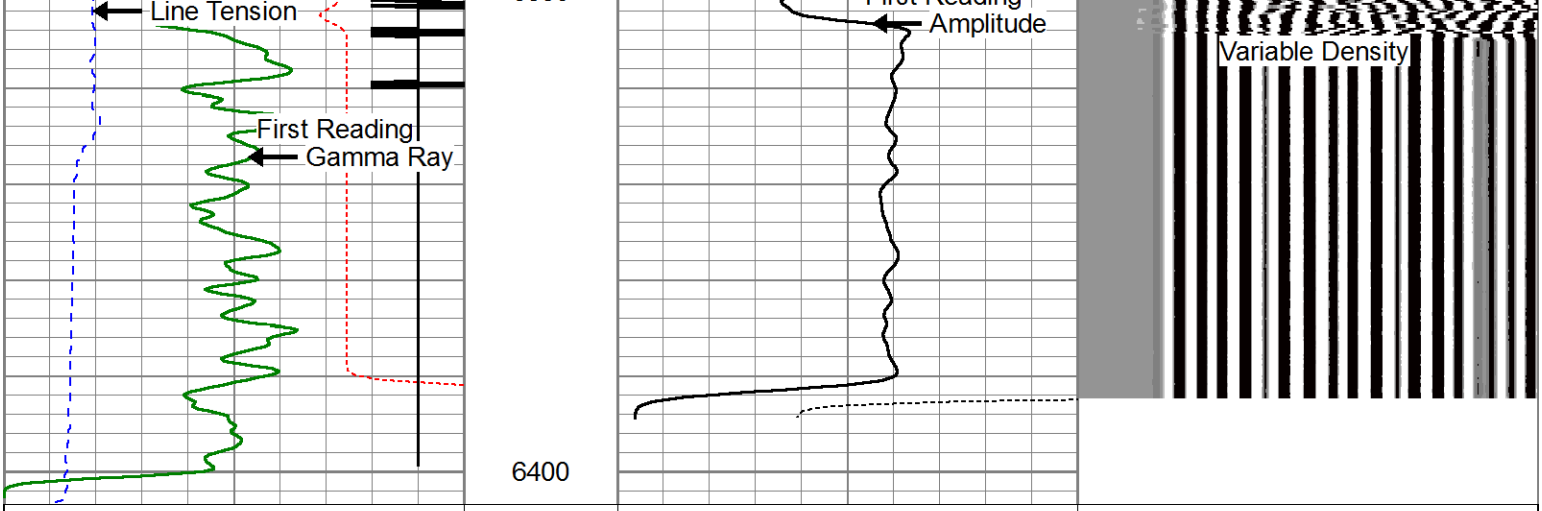
6200
6250
6300
6350
Casing Collar
Amplified Amplitude
Travel Time
First Reading



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

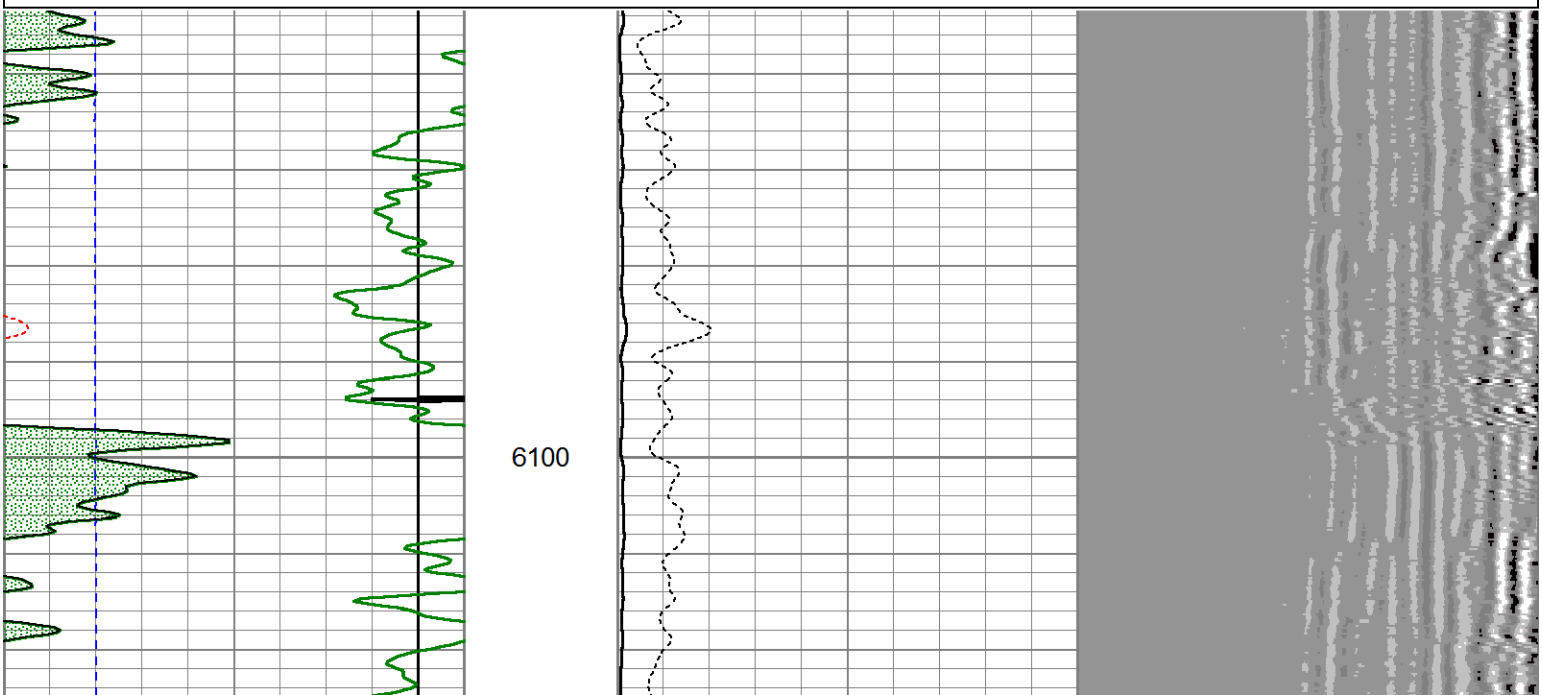
Repeat Pass (0 P.S.I.)

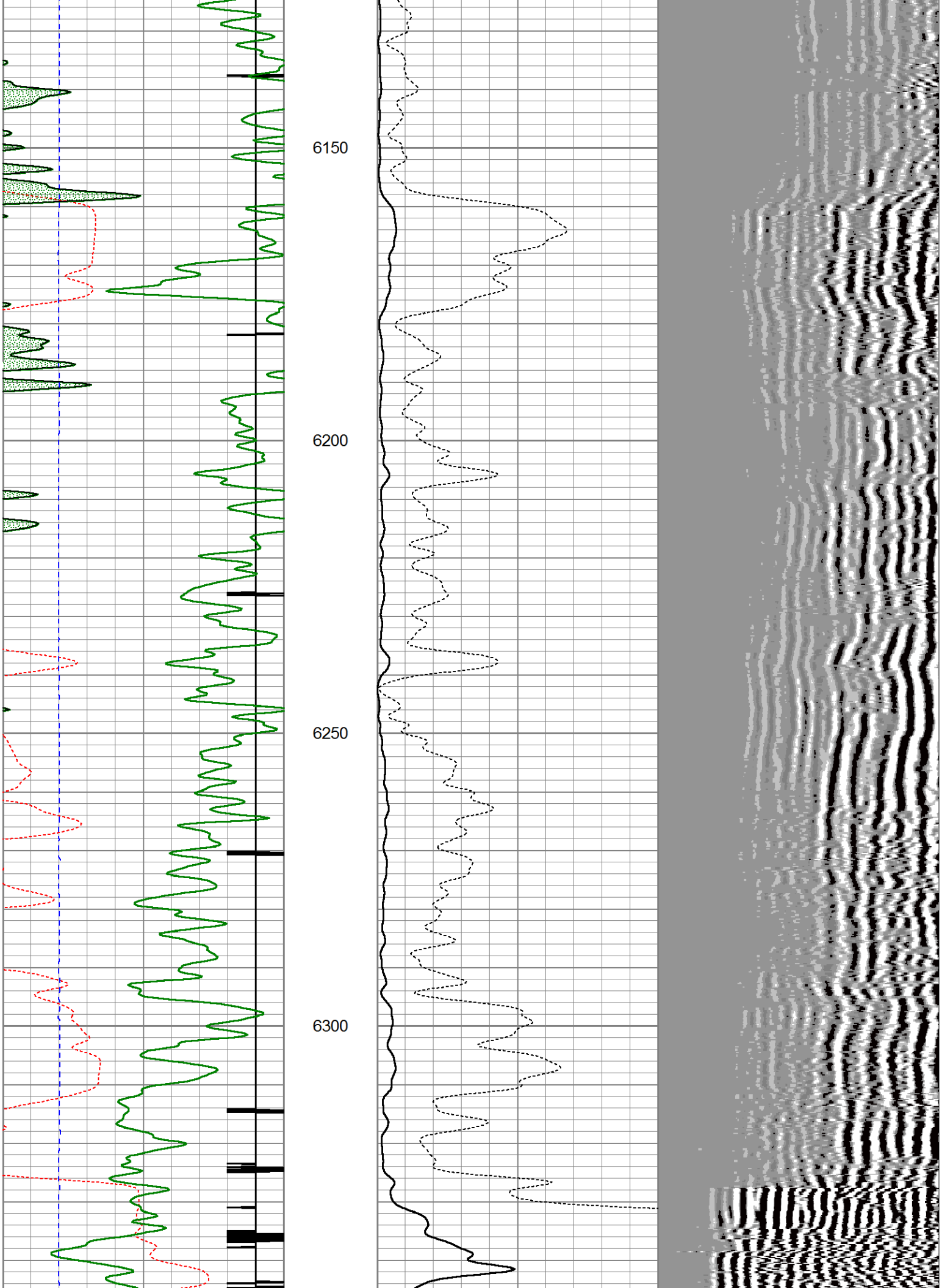
Database File: c:\users\engineers\desktop\bc sates 70 holes\stateseventyholesa11-e14-3hnc_cbl.db
Dataset Pathname: pass2
Presentation Format: cblprobe
Dataset Creation: Sat Apr 19 14:54:52 2014 by Log 0
Charted by: Depth in Feet scaled 1:240

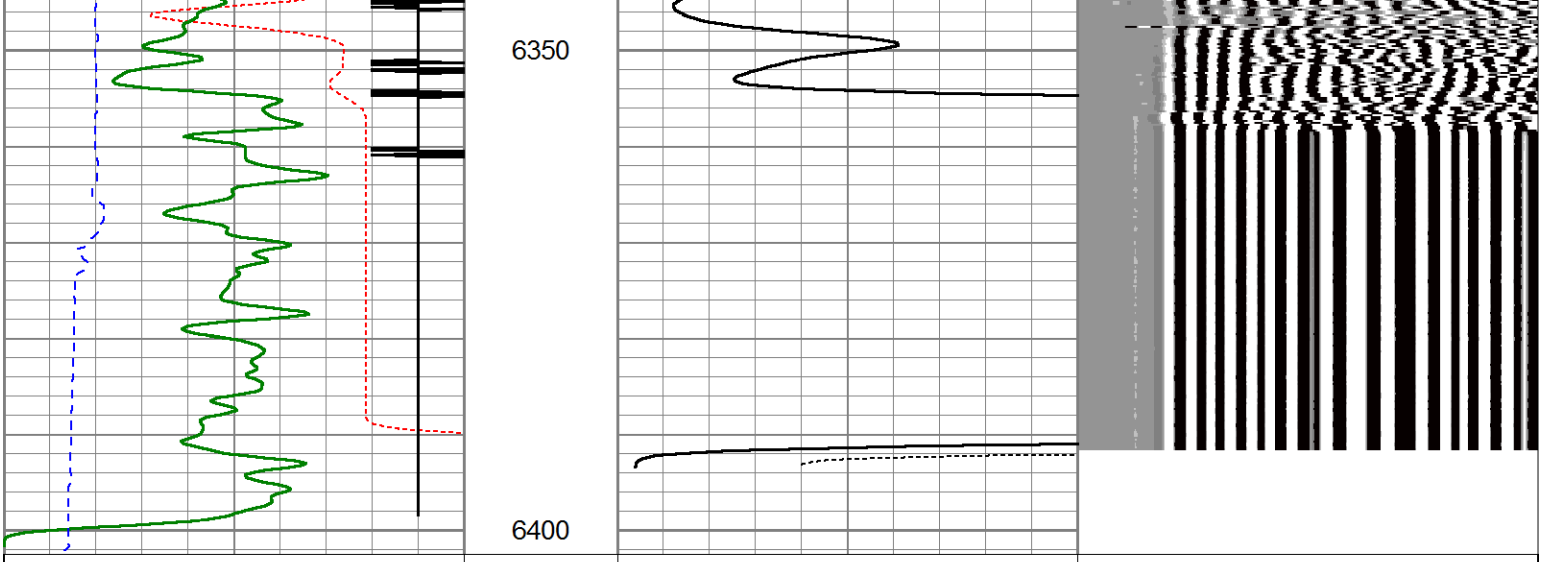
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

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

200	Variable Density	1200




6150
6200
6250
6300



Calibration Report

Database File: C:\Users\Engineers\Desktop\BC sates 70 holes\stateseventyholesa11-e14-3hnc_cbl.db
Dataset Pathname: pass4
Dataset Creation: Sat Apr 19 15:02:41 2014 by Log 0

Gamma Ray Calibration Report

Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Fri Nov 29 14:39:10 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Temperature Calibration Report

Serial Number:	110108-Dig			
Tool Model:	Probe275			
Performed:	Sun Jun 13 13:33:21 1993			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps
Gain:	1.00			
Offset:	0.00			
Delta Spacing	2			

Segmented Cement Bond Log Calibration Report

Serial Number:	101224	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.110	ft

Master Calibration, performed Sat Apr 19 08:02:42 2014:

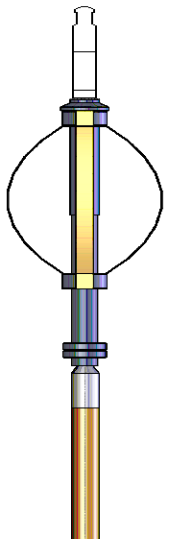
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.020	0.722	1.000	71.921	180.652	3.918
CAL	-0.019	0.754				
5'	-0.017	0.659	1.000	71.921	104.939	2.732
SUM						
S1	0.025	0.743	0.000	100.000	139.403	-3.541
S2	-0.022	0.724	0.000	100.000	134.135	2.923
S3	-0.019	0.737	0.000	100.000	132.274	2.553
S4	-0.020	0.744	0.000	100.000	130.856	2.636
S5	-0.020	0.737	0.000	100.000	132.106	2.651
S6	-0.020	0.729	0.000	100.000	133.435	2.663
S7	-0.020	0.724	0.000	100.000	134.317	2.717
S8	-0.020	0.729	0.000	100.000	133.503	2.642

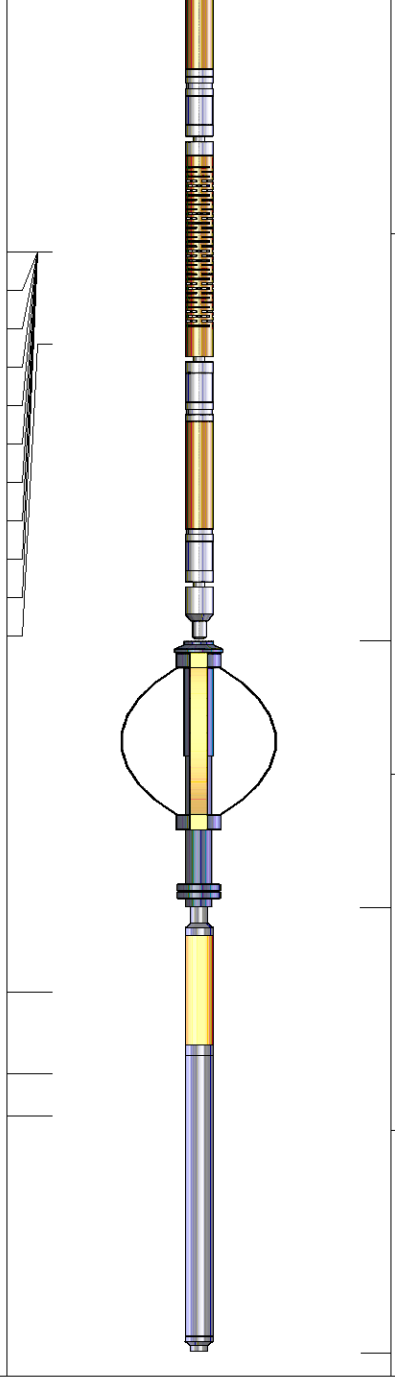
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.019	0.754	1.000	0.000

Air Zero Calibration, performed Sun Oct 27 20:29:00 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					
TEMP	3.00					
GR	2.54		GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00

Dataset:	stateseventyholesa11-e14-3hnc_cbl.db: field/well/run1/pass4
Total Length:	20.28 ft
Total Weight:	197.00 lb
O.D.	2.75 in