

## Cement Bond Variable Density Log W/ Gamma Ray/CCL

Company Bonanza Creek Energy  
Well North Platte 11-41-33HC  
Field Wattenberg  
County Weld  
State Colorado

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Well North Platte 11-41-33HC  
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Location: API #: 05-123-39906  
SEC 33 TWP 5N RGE 63W  
Permanent Datum SHL: 382' FNL & 458' FWL  
Log Measured From Kelly Bushing 16' APD  
Drilling Measured From Kelly Bushing  
Other Services  
NONE  
Elevation  
K.B.: 4585'  
D.F.: 4584'  
G.L.: 4569'

Date October 25, 2014

Run Number	1		
Depth Driller	-		
Depth Logger	6626'		
Bottom Logged Interval	6612'		
Top Log Interval	Surface		
Open Hole Size	8.75		
Type Fluid	Fresh Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	-		
Estimated Cement Top	400'		
Time Well Ready	10:00		
Time Logger on Bottom	10:35		
Equipment Number	13033		
Location	Brighton		
Recorded By	C. Rall		
Witnessed By	D. Barberousse		

Borehole Record  
Run Number Bit From To Size Weight From To

Casing Record  
Surface String 9.5/8" 36# 0 432'  
Prot. String  
Production String 7" 26# 0 6946'  
Liner

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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  
Main Pass & Repeat Pass Logged w/0 PSI

Logged from 16' Kelly Bushing

Logging Speed Requested by Company

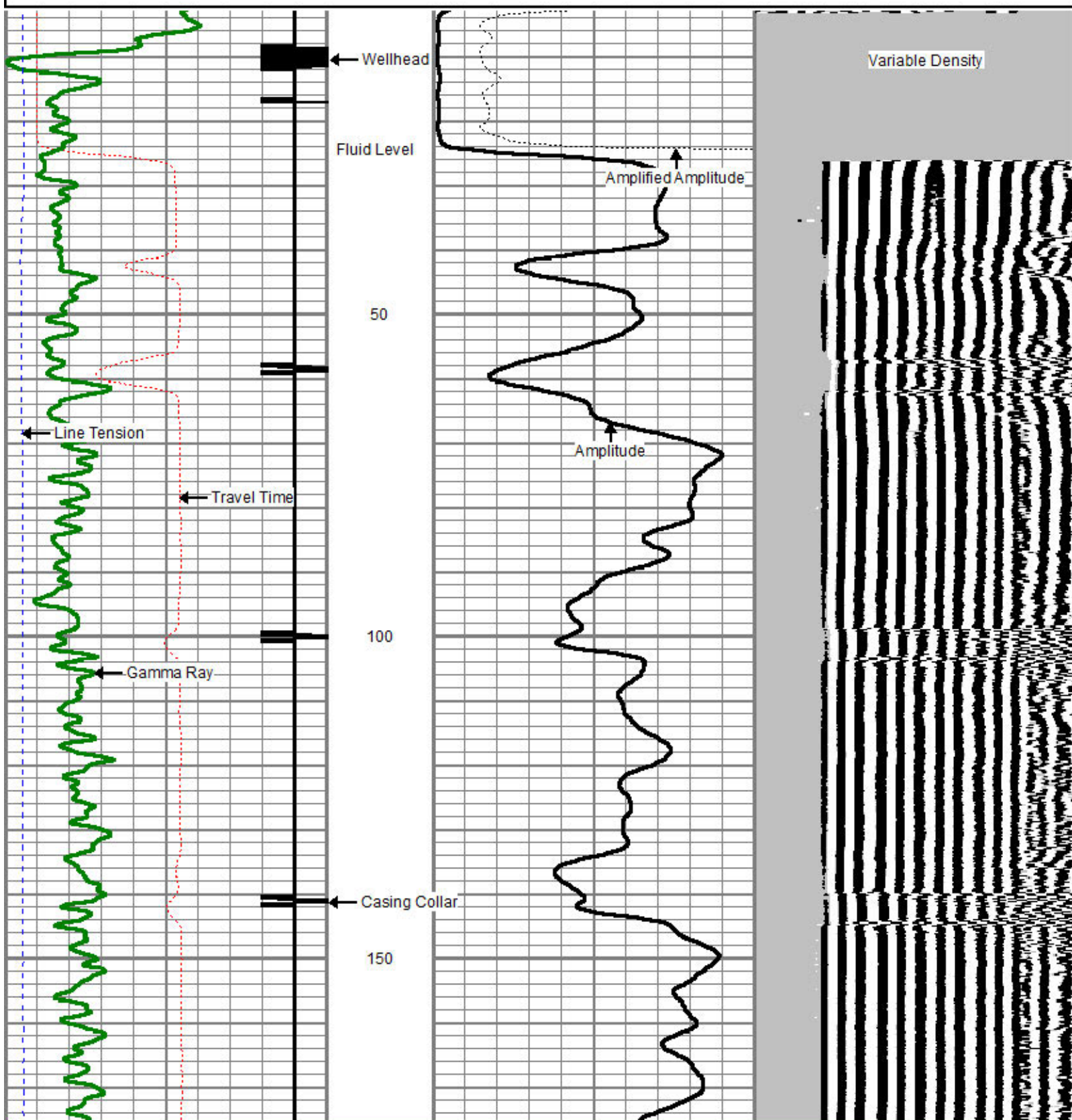
Thank You For using Allied-Horizontal Wireline Services  
(303) 659-4609

Database File: bonanza creek north platte 11-41-33hc\_cbl.db  
Dataset Pathname: pass7.1  
Presentation Format: cblprobe  
Dataset Creation: Sat Oct 25 12:23:14 2014 by Calc 0  
Charted by: Depth in Feet scaled 1:240

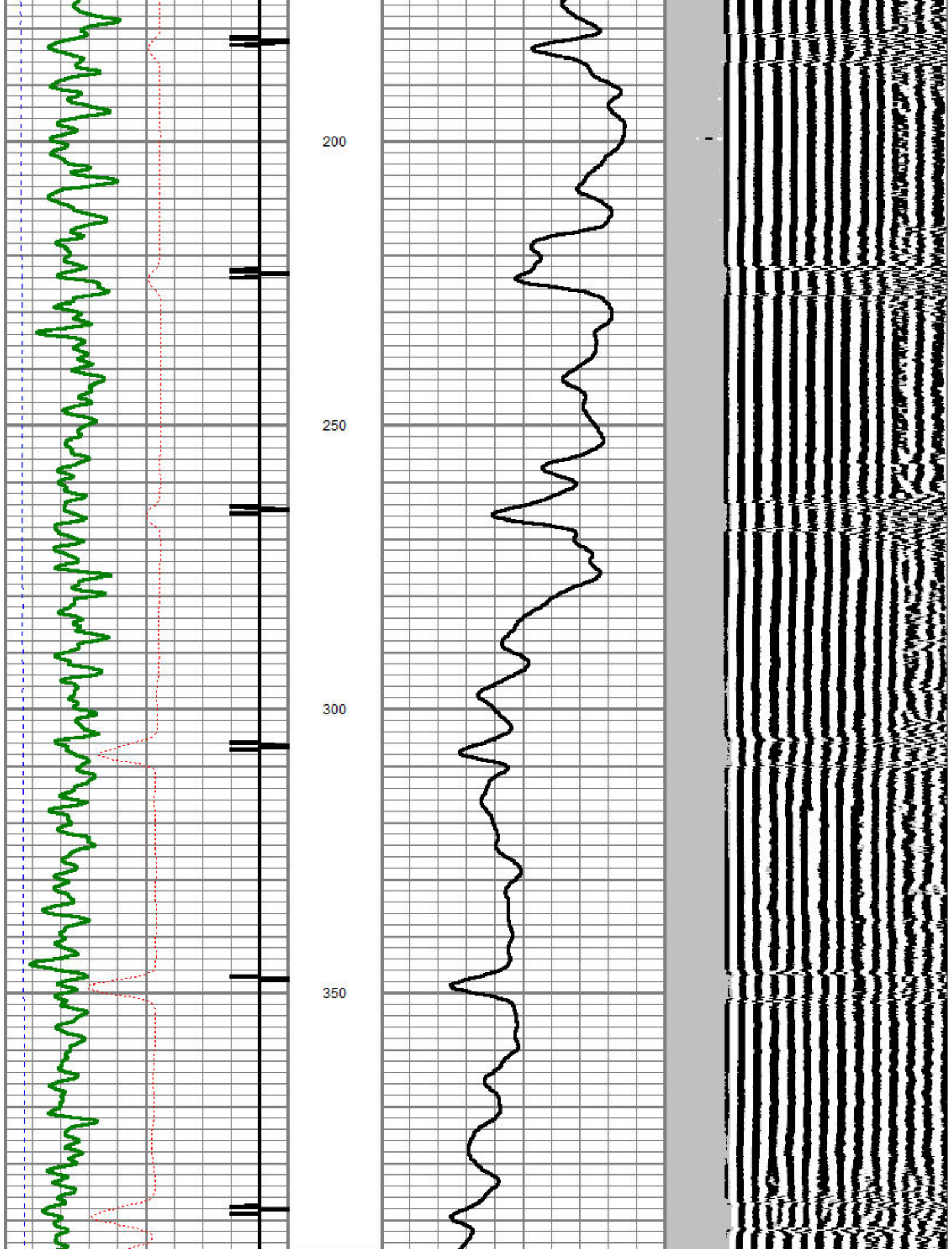
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

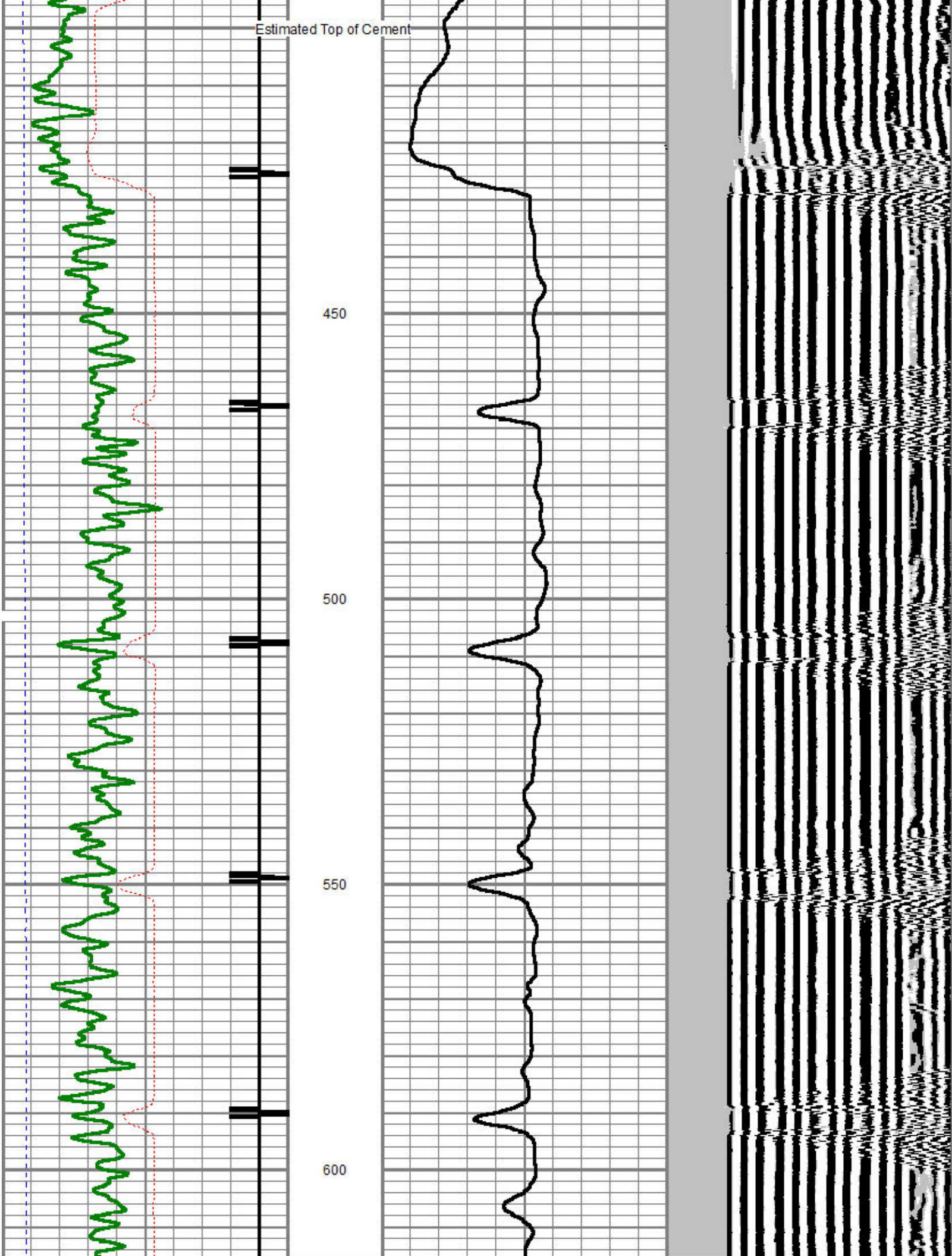
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10

200 Variable Density 1200

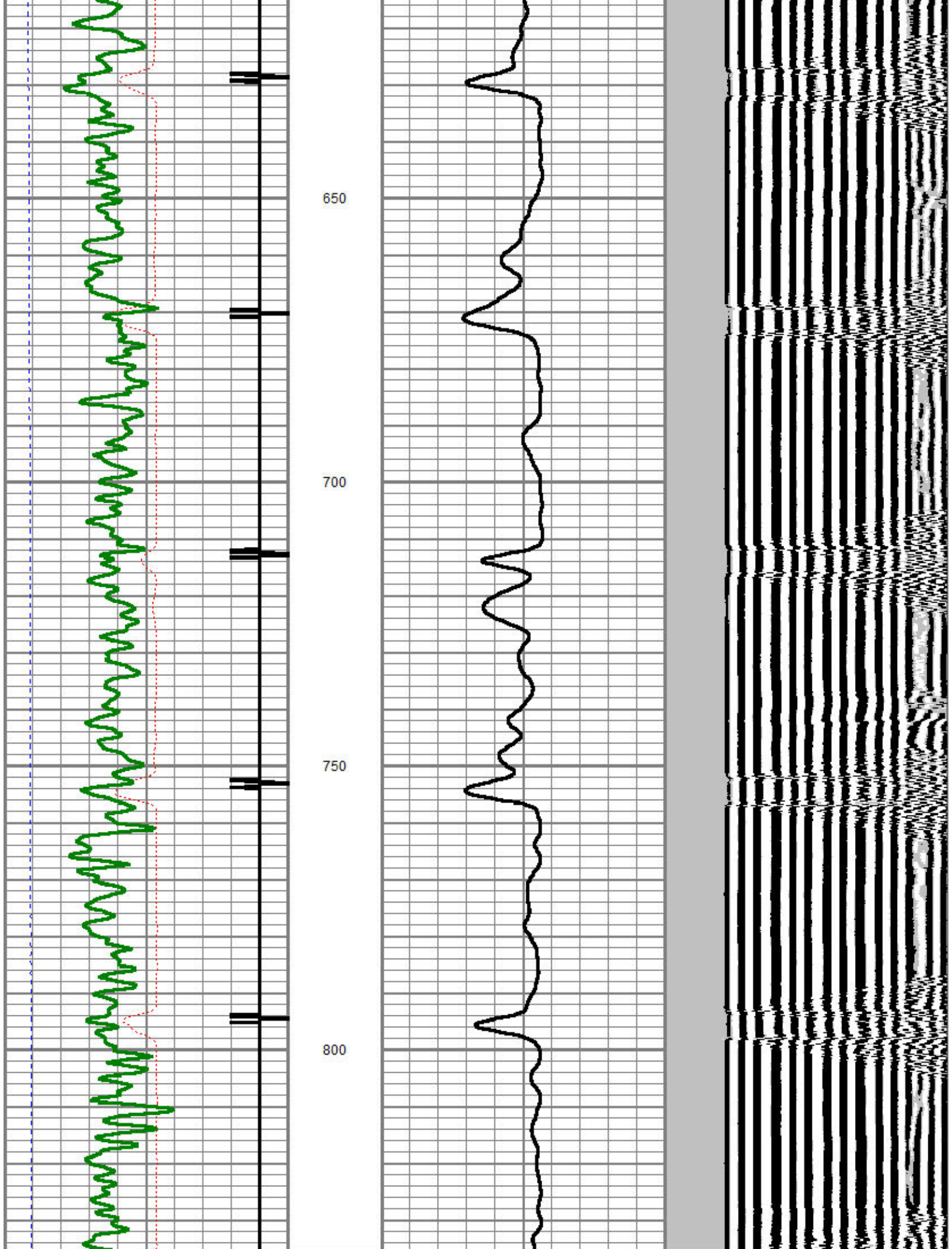


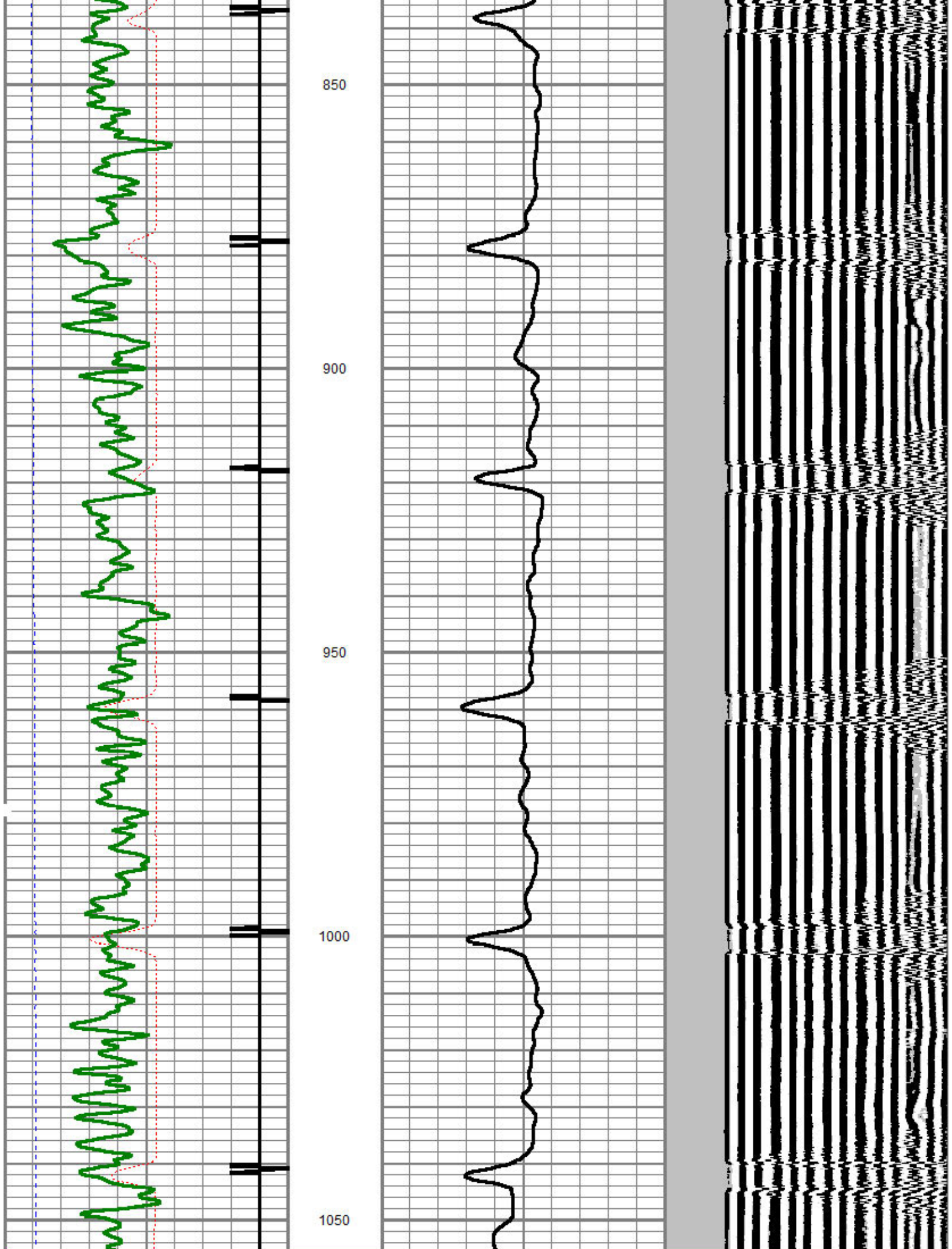




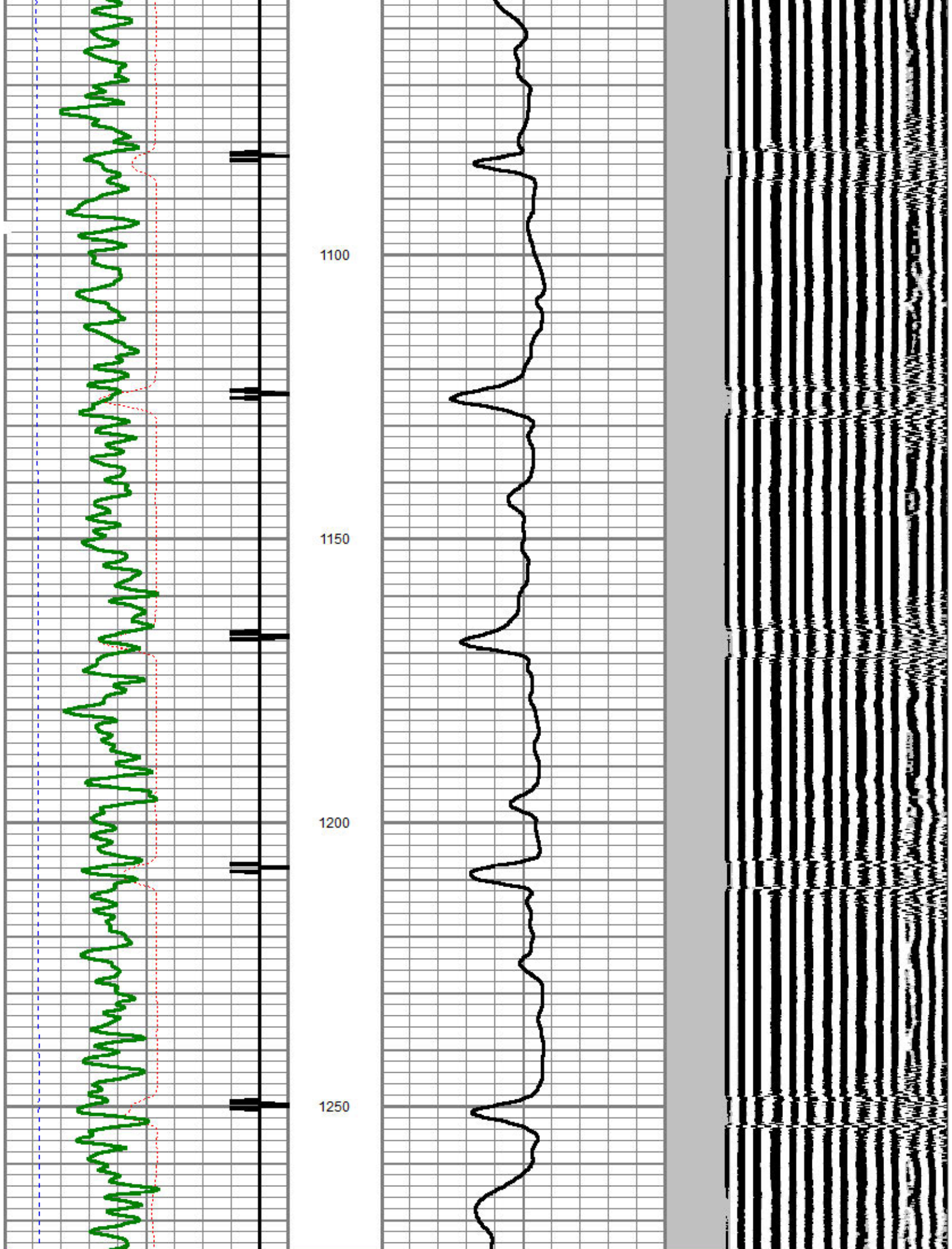


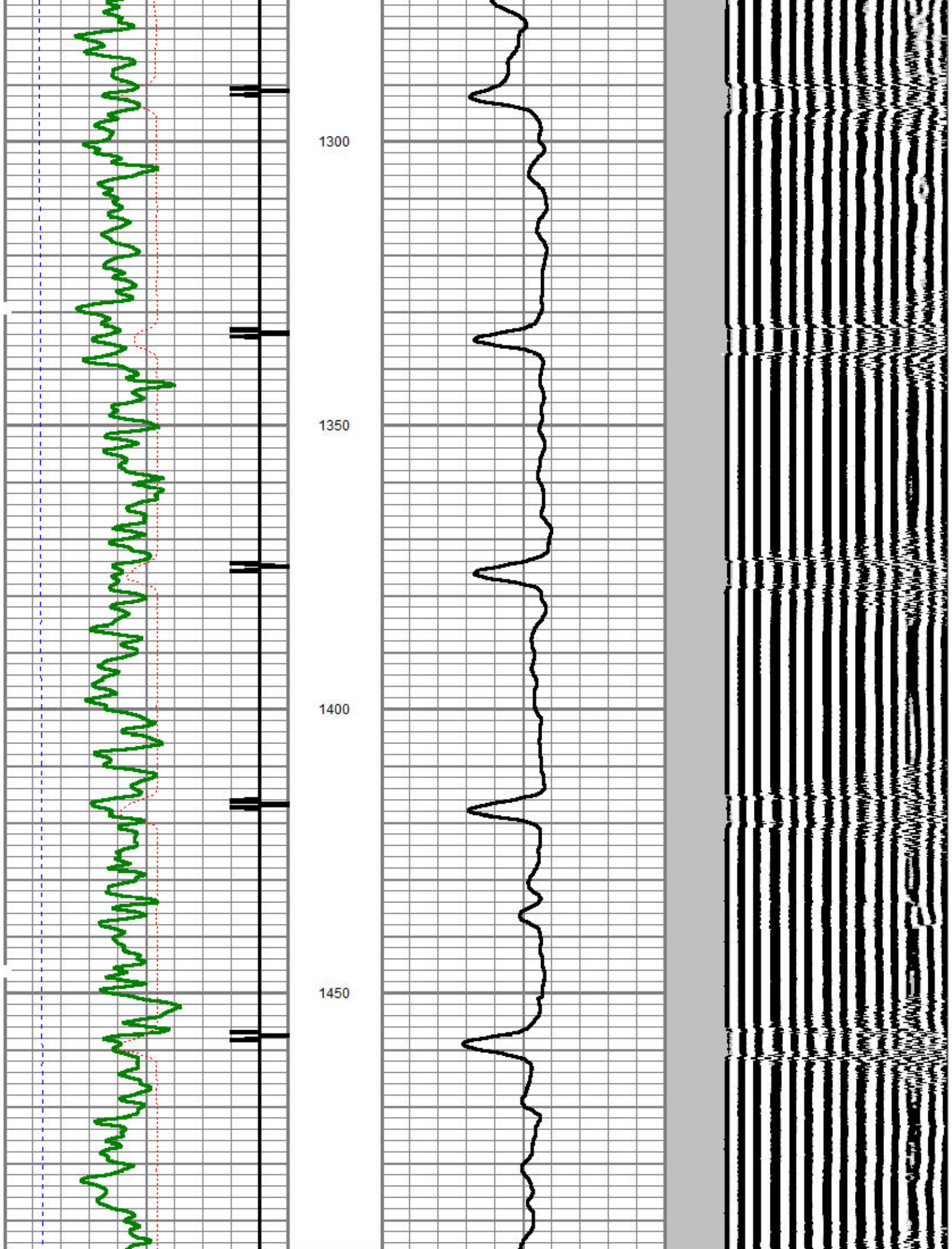




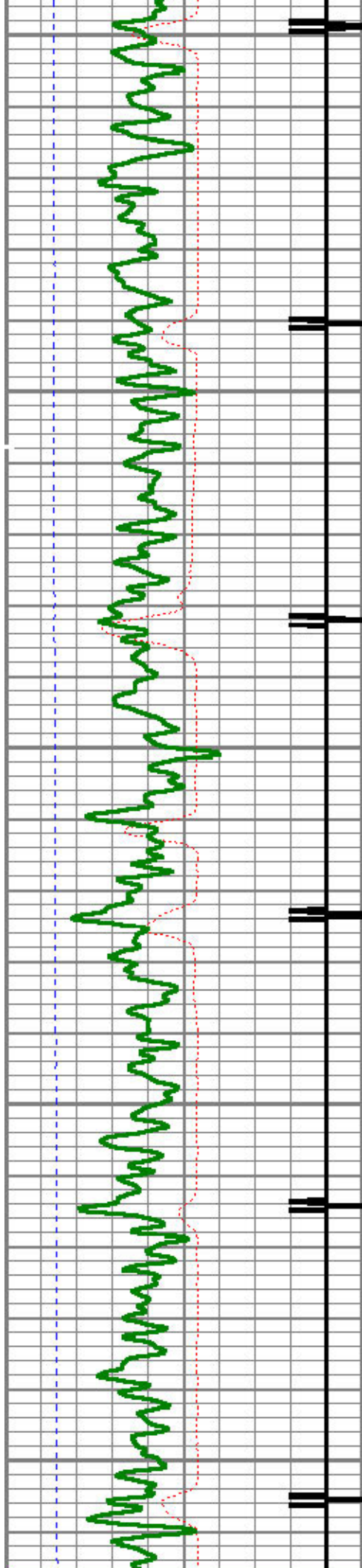












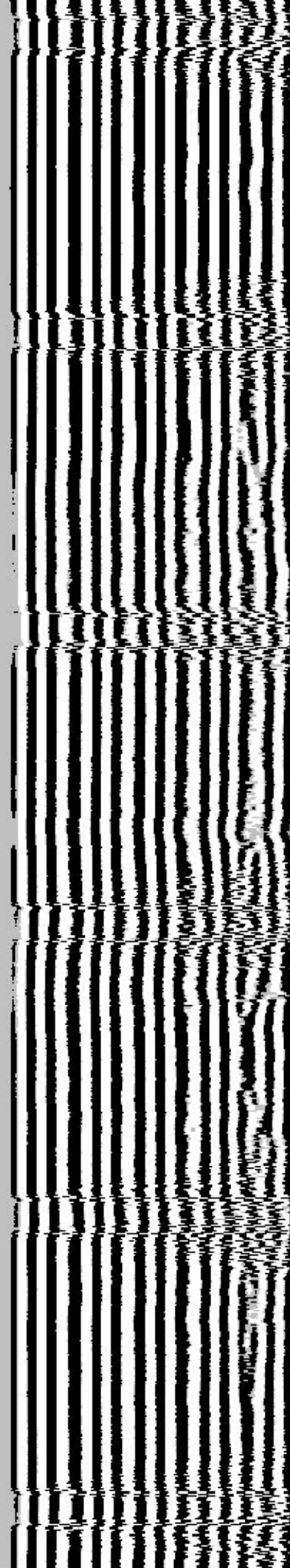
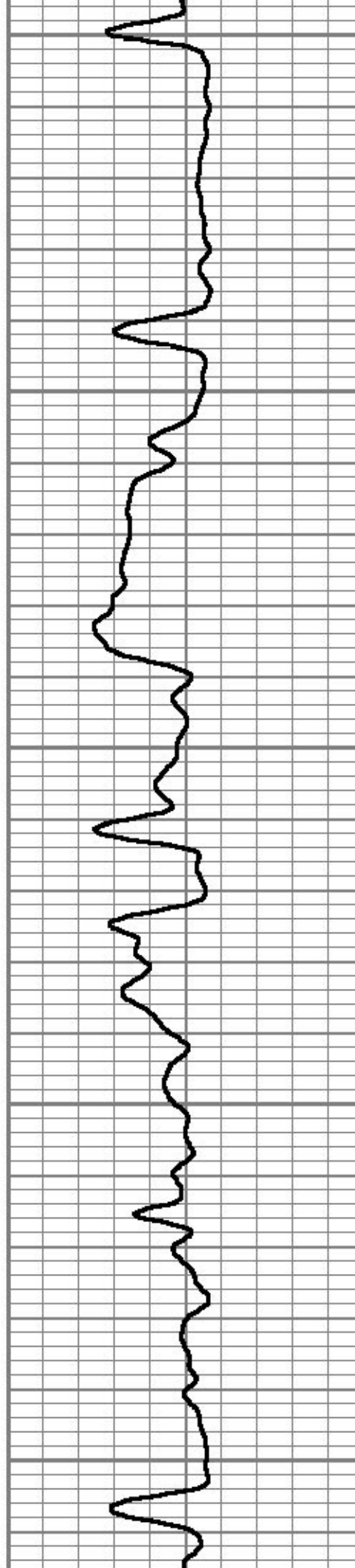
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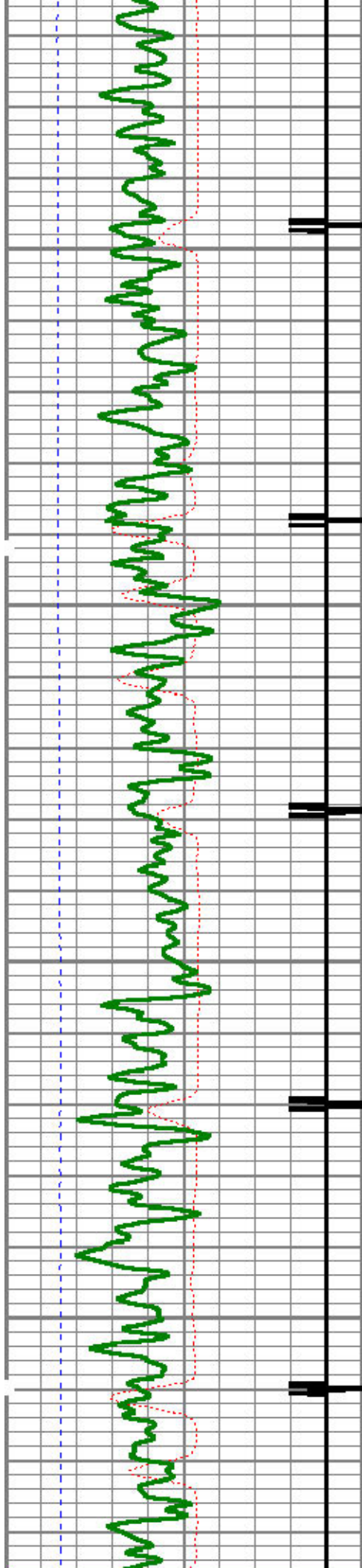
1550

1600

1650

1700



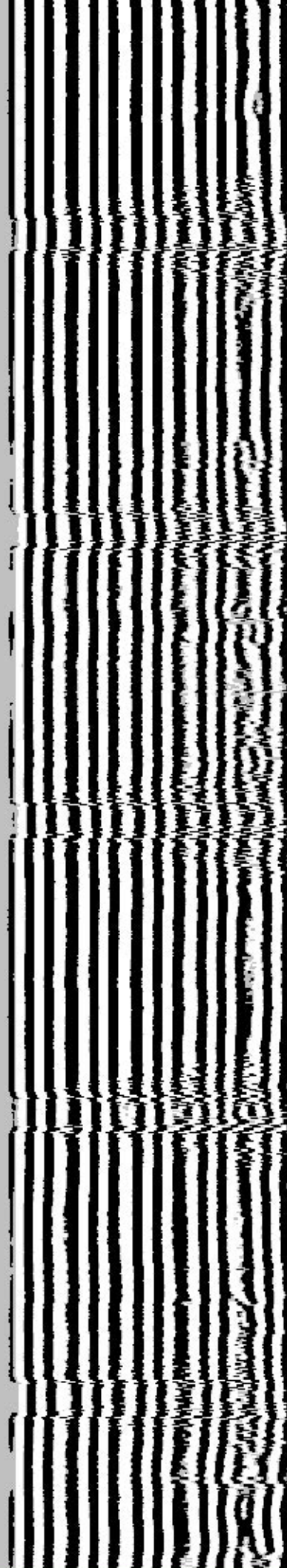
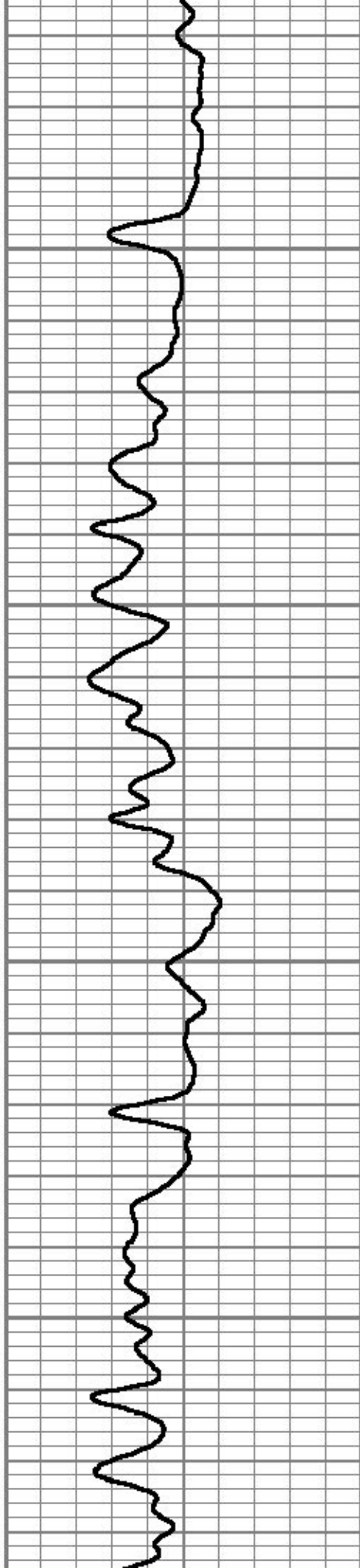


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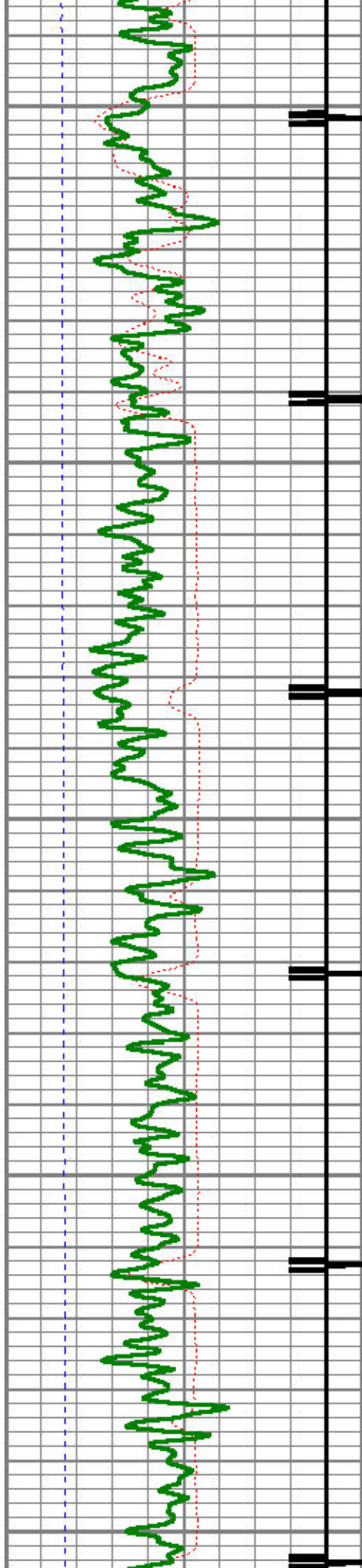
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1850

1900







1950

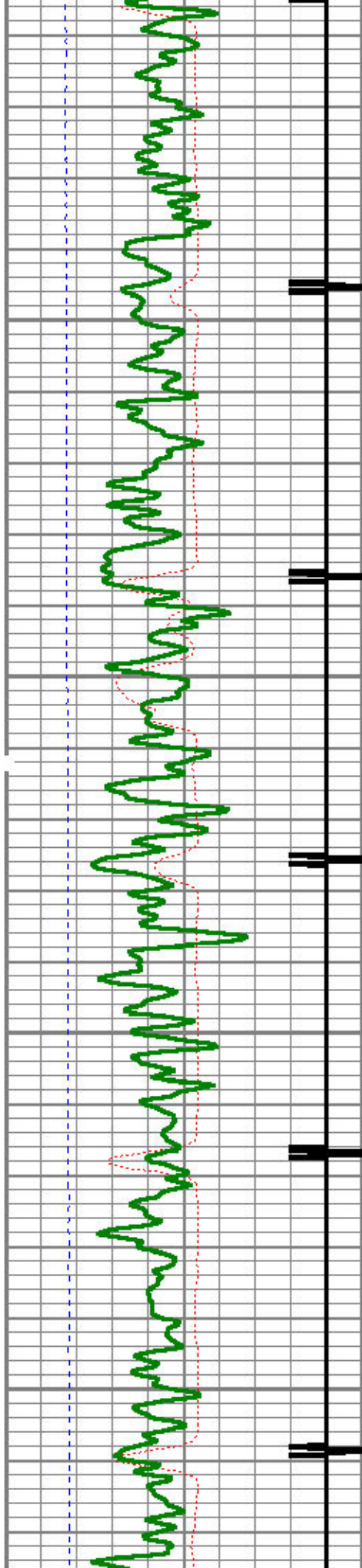
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2050

2100

2150



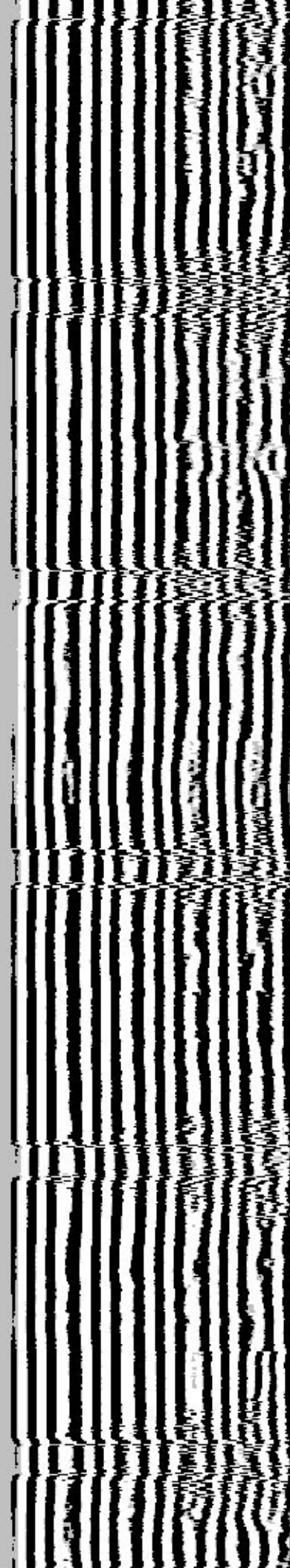
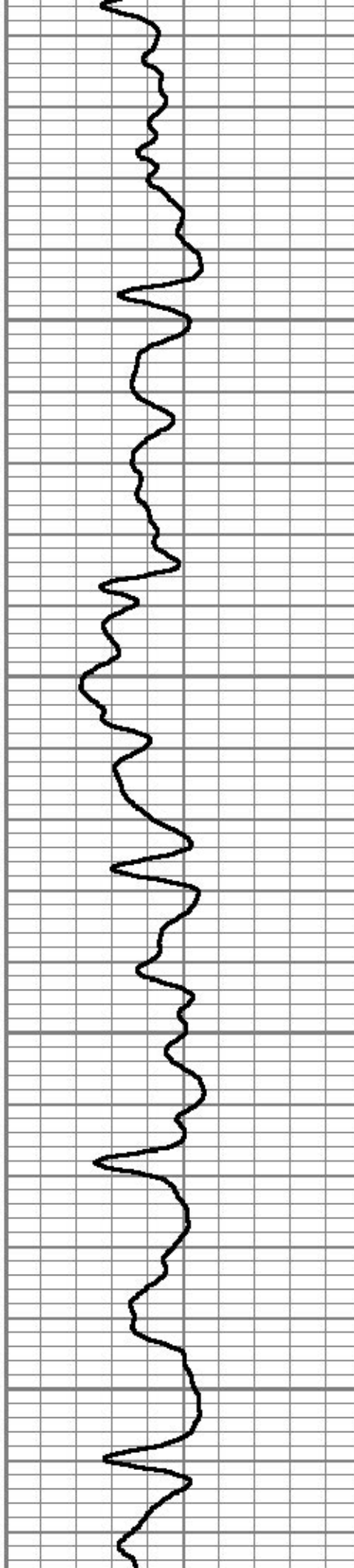


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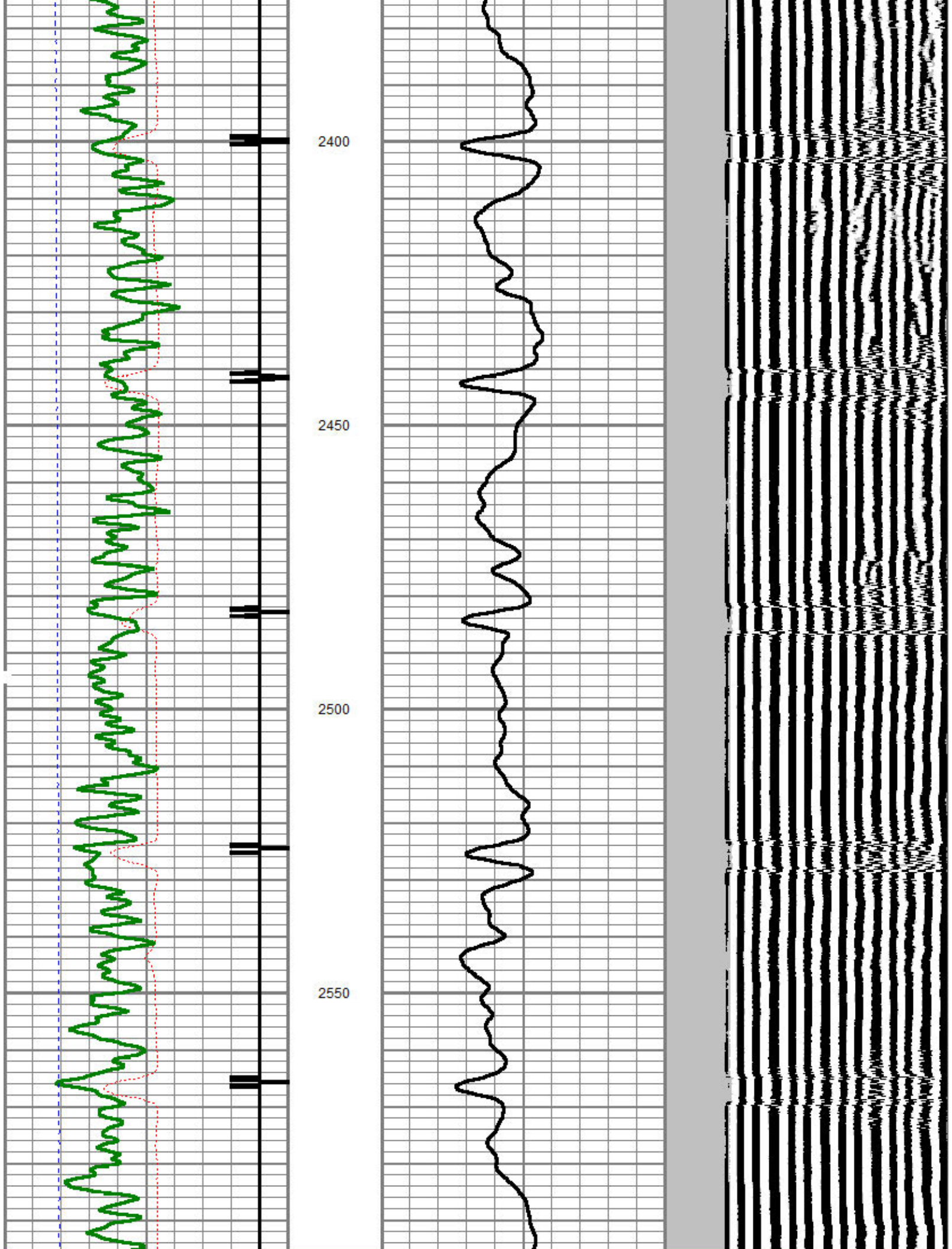
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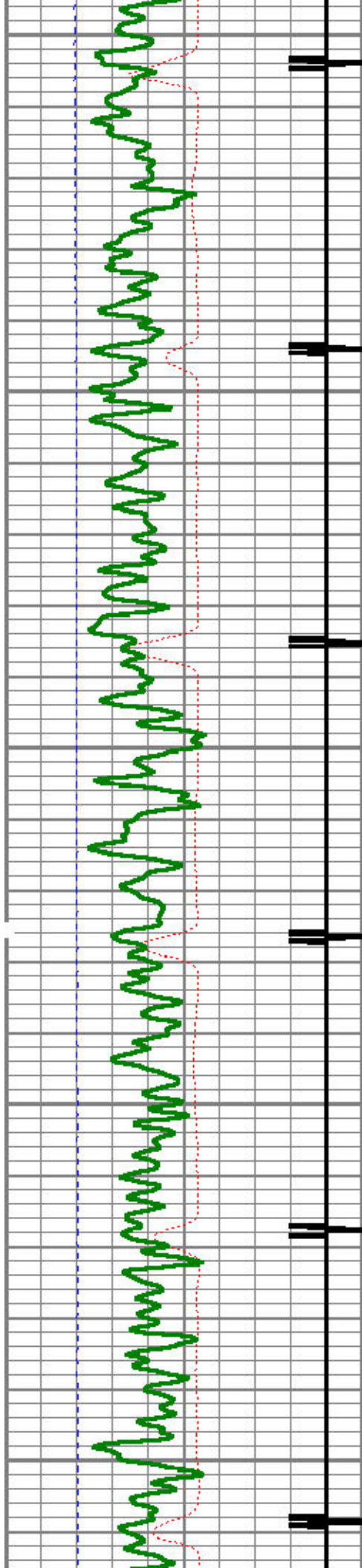
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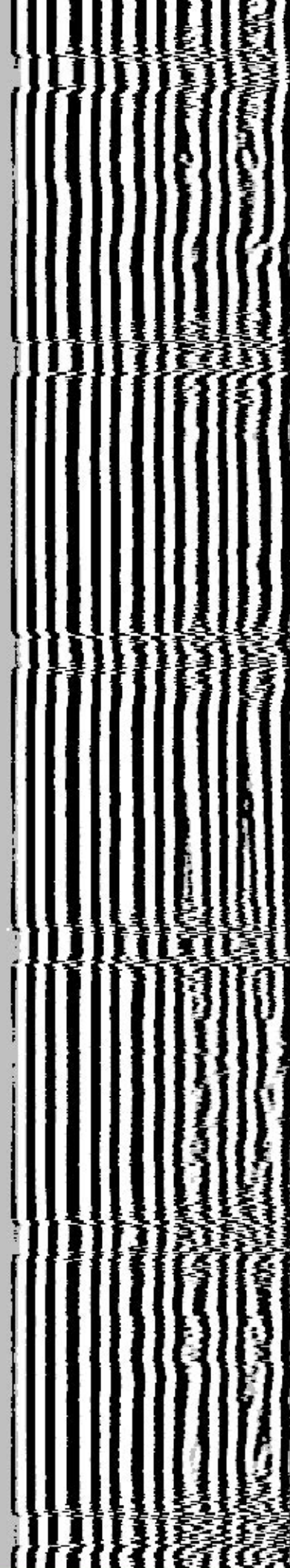
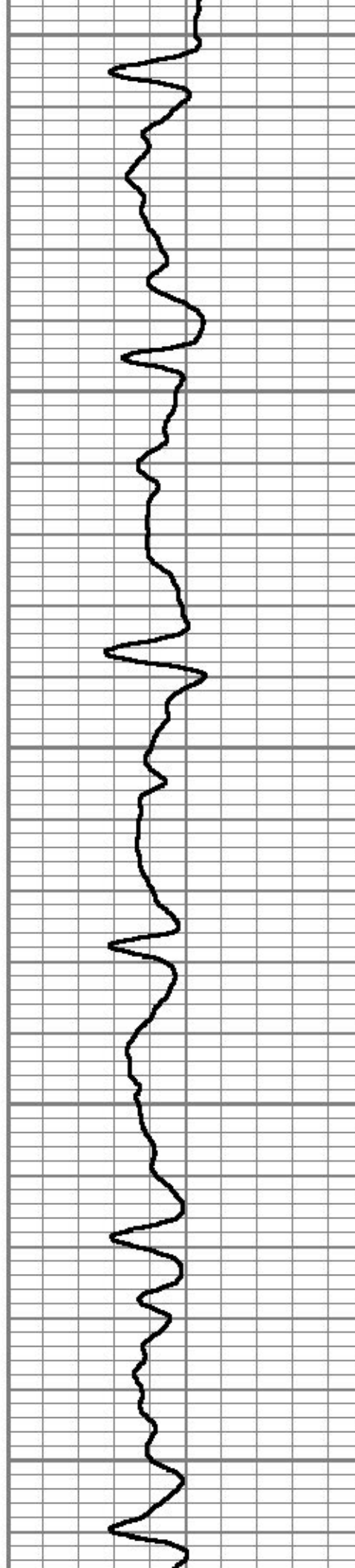
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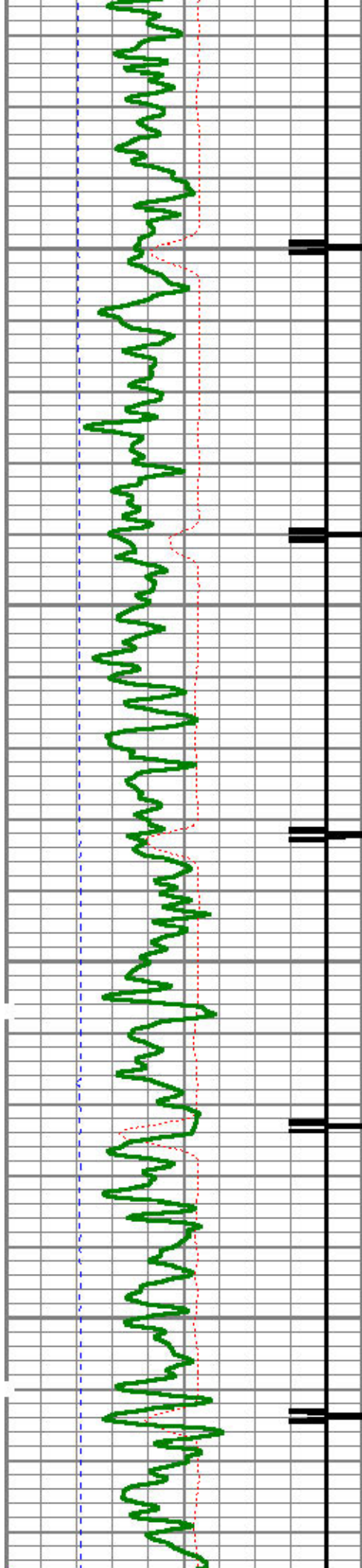
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2800





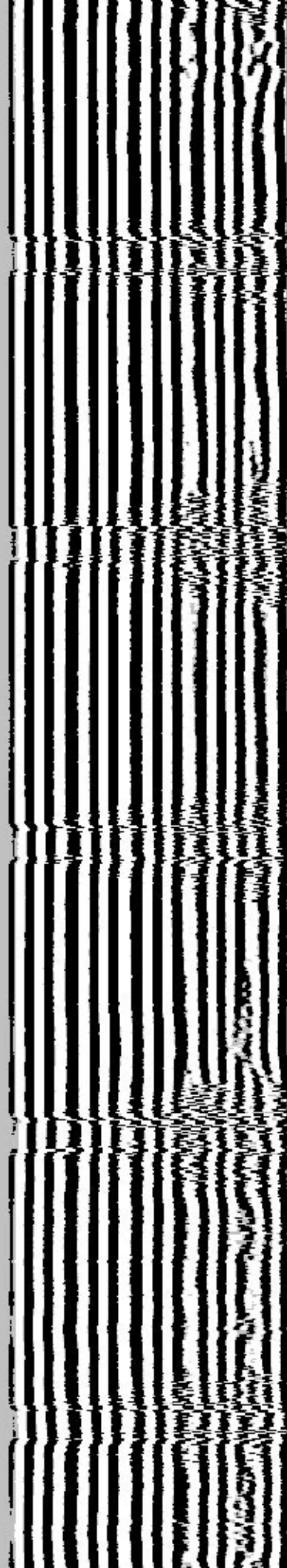
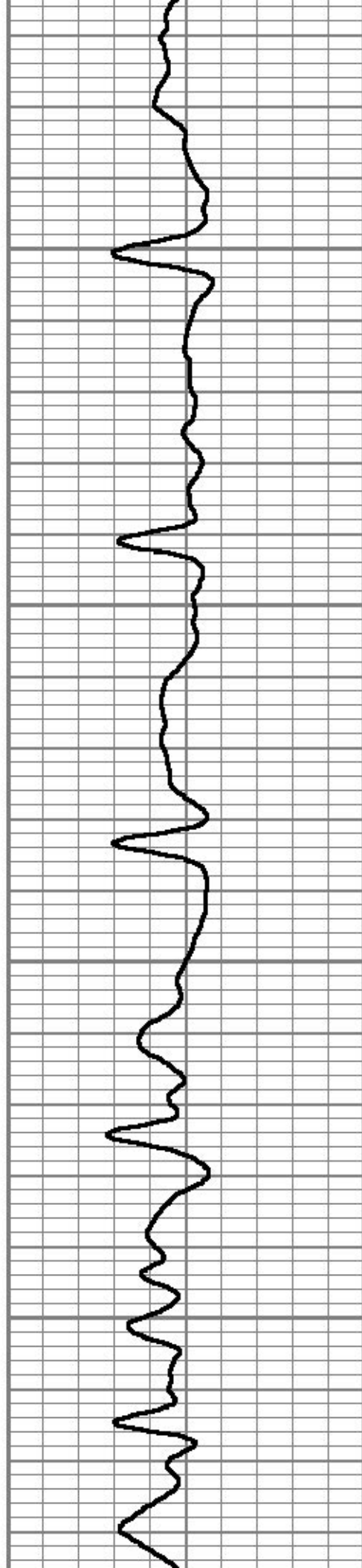


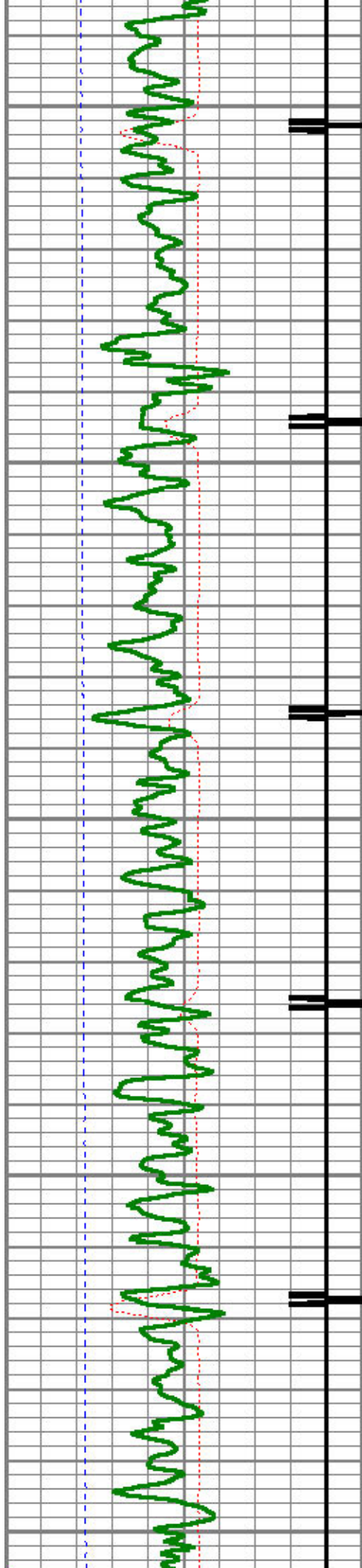
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2900

2950

3000





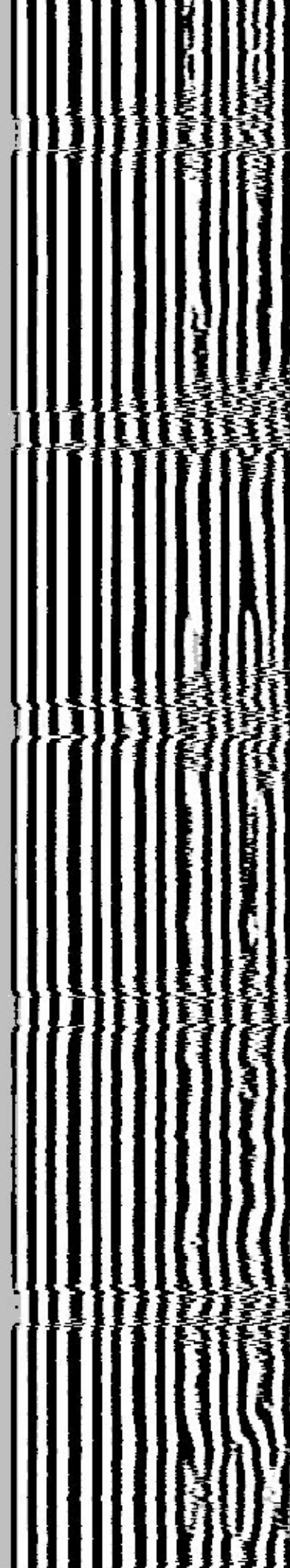
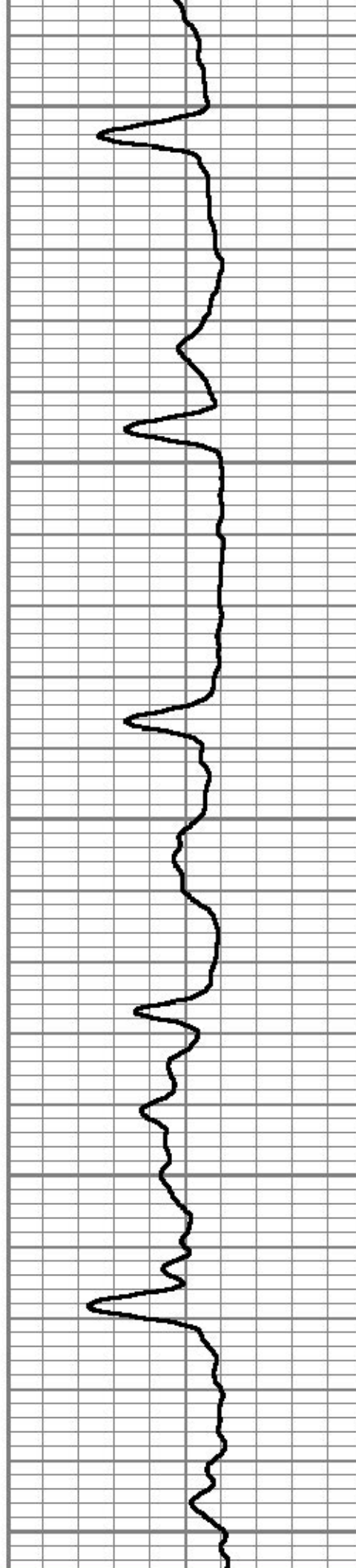
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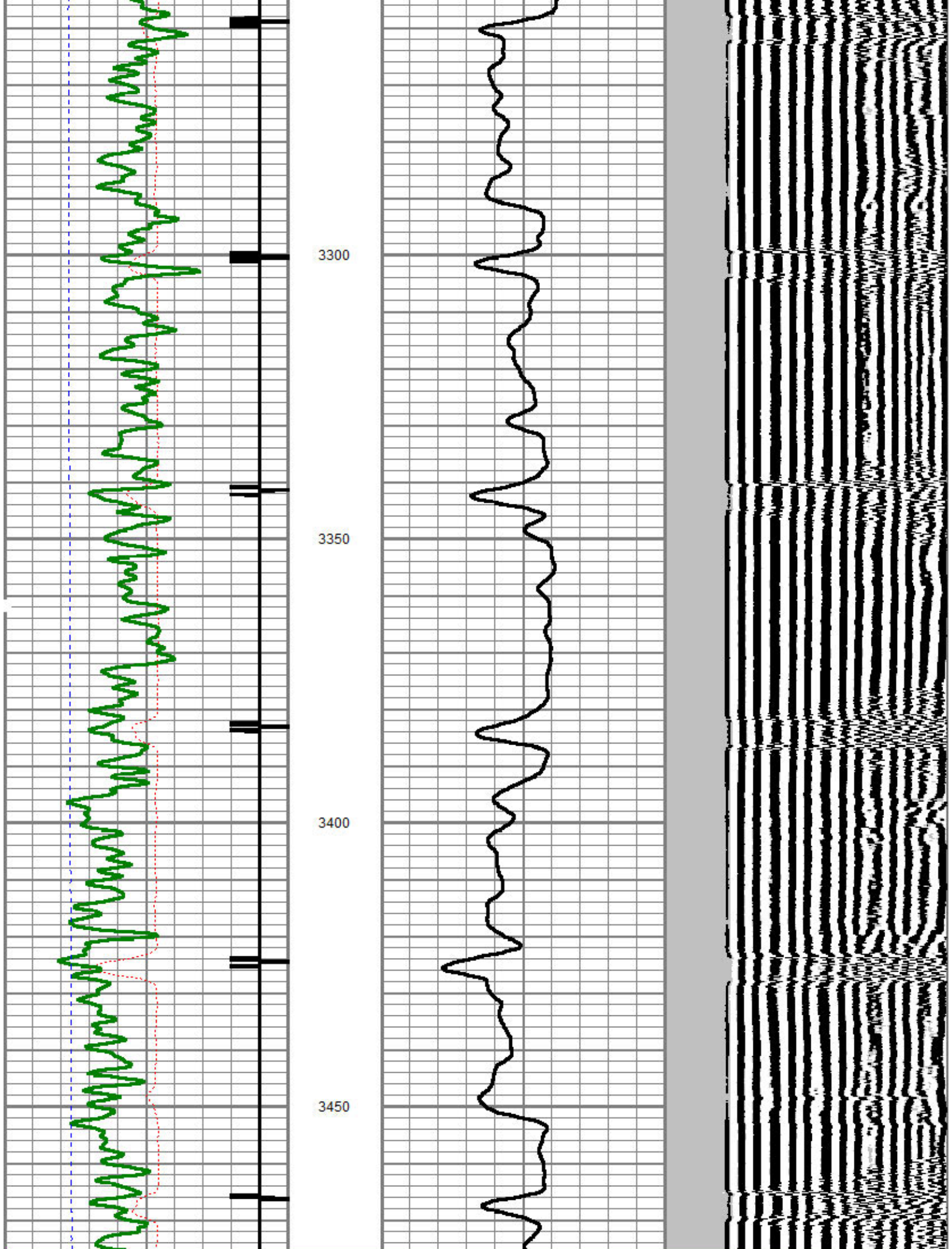
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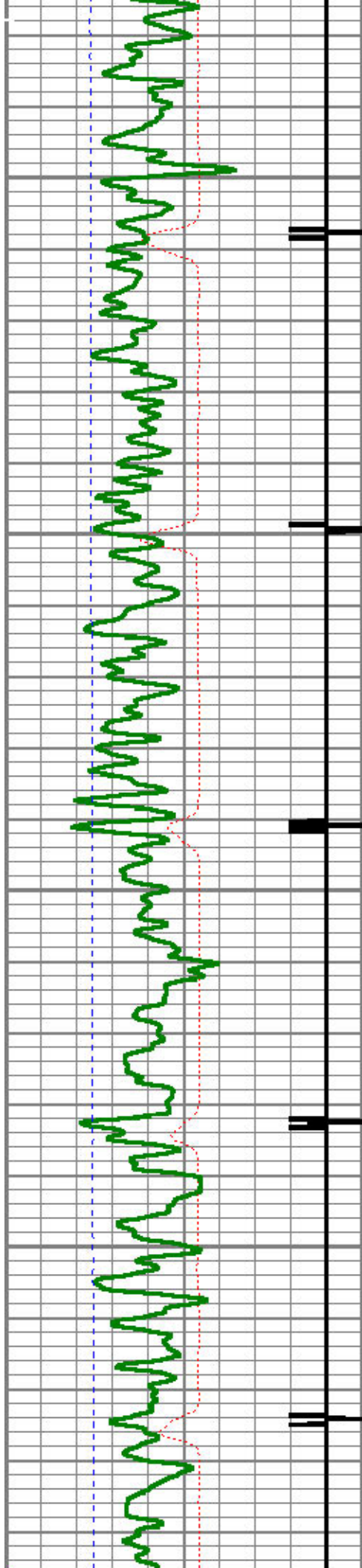
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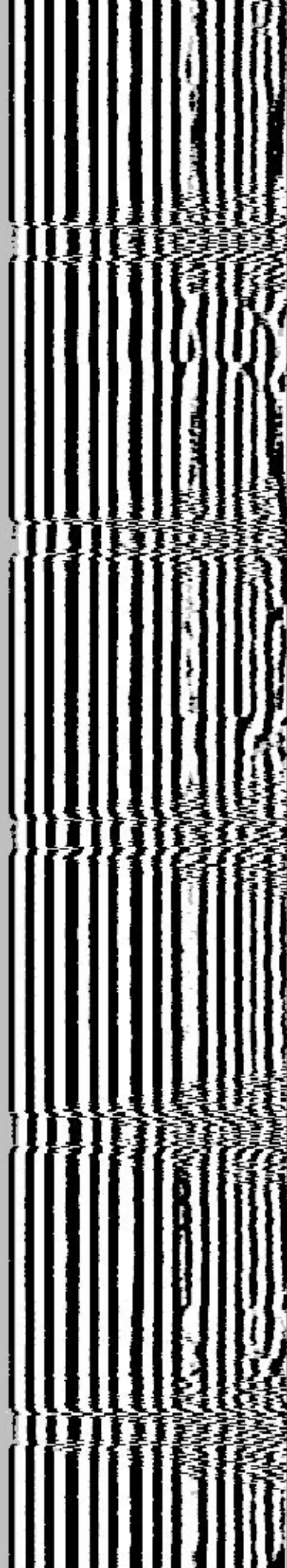
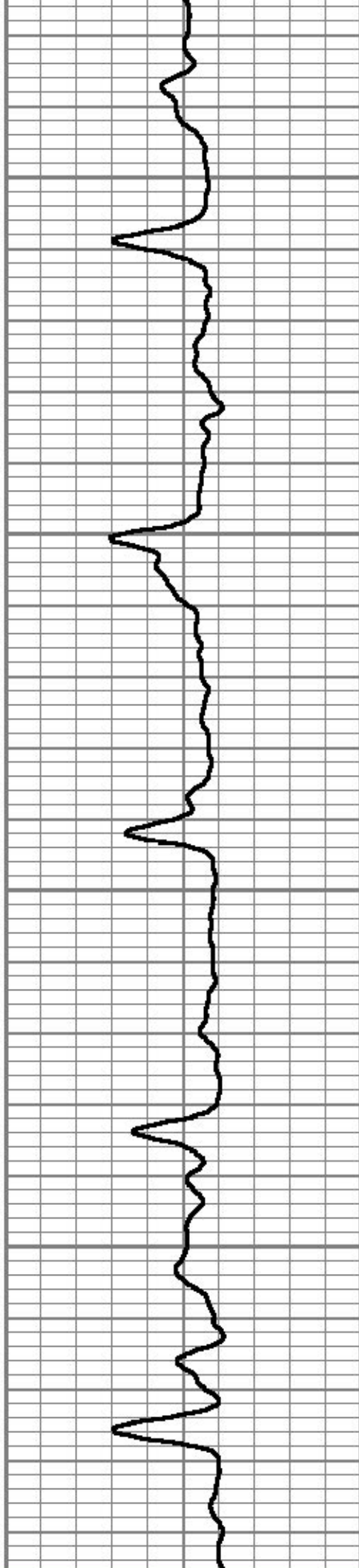


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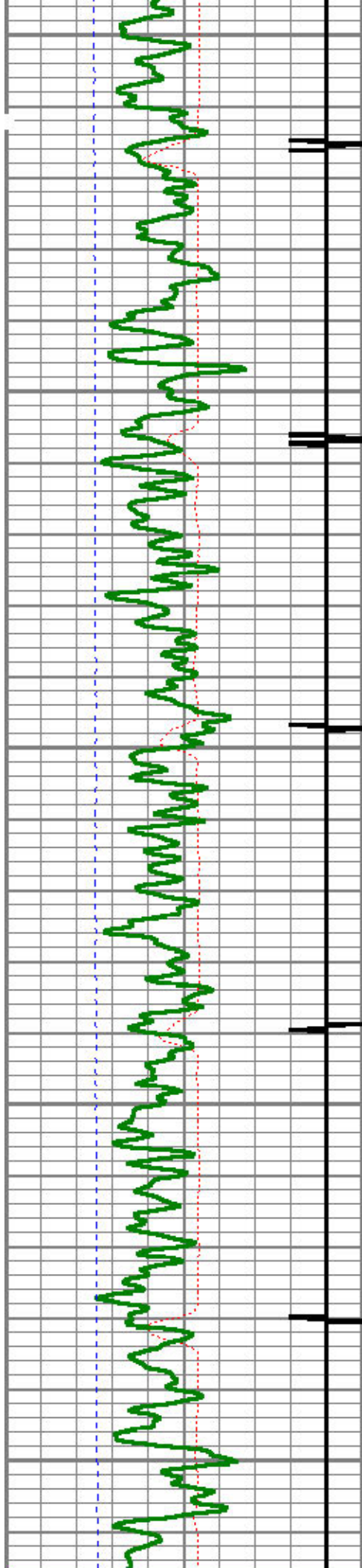
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3650







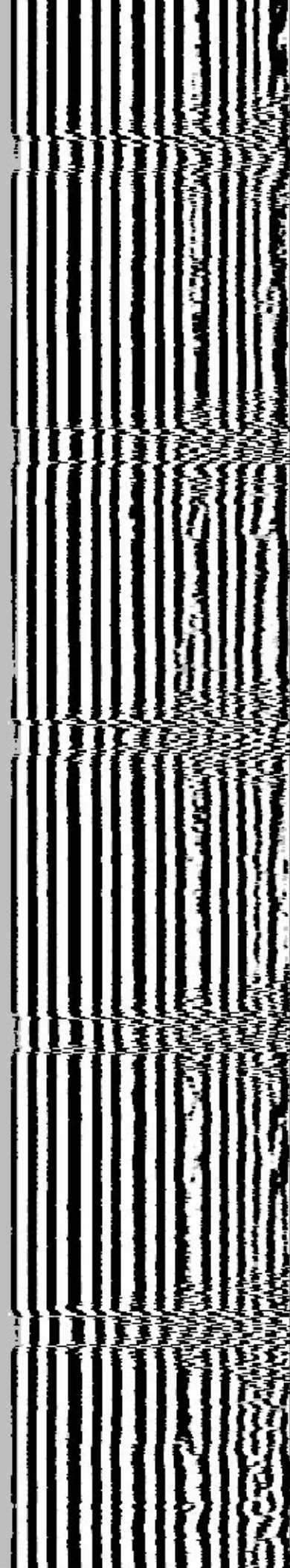
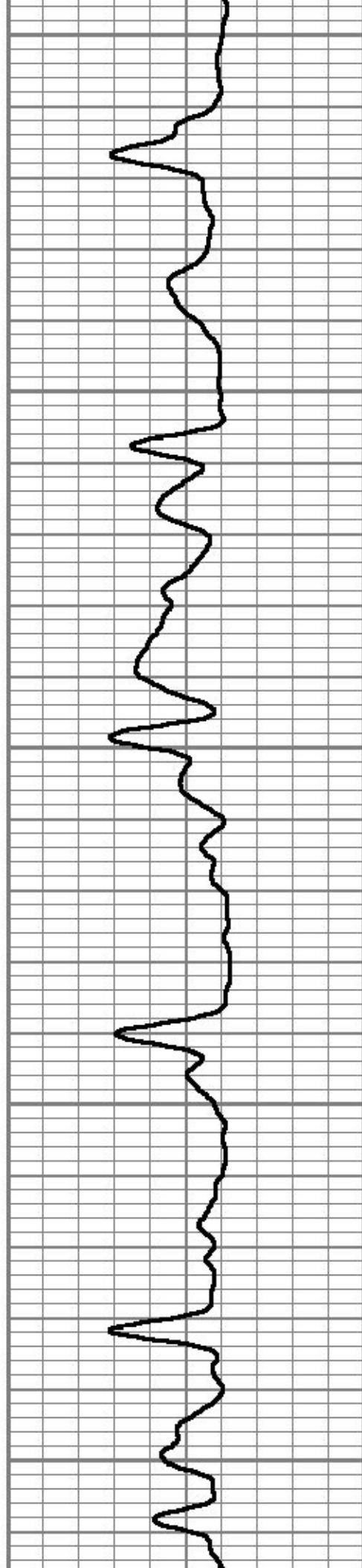
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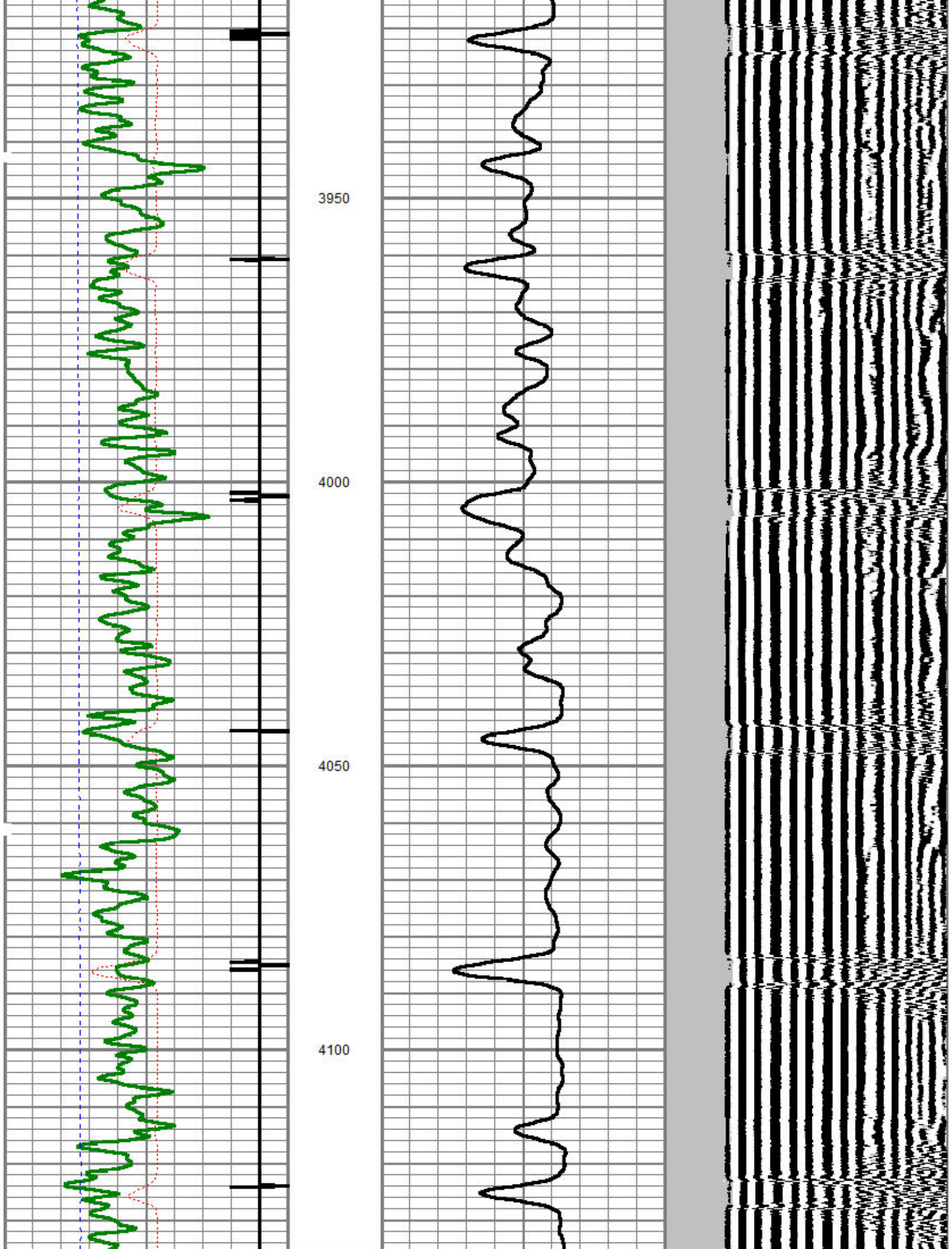
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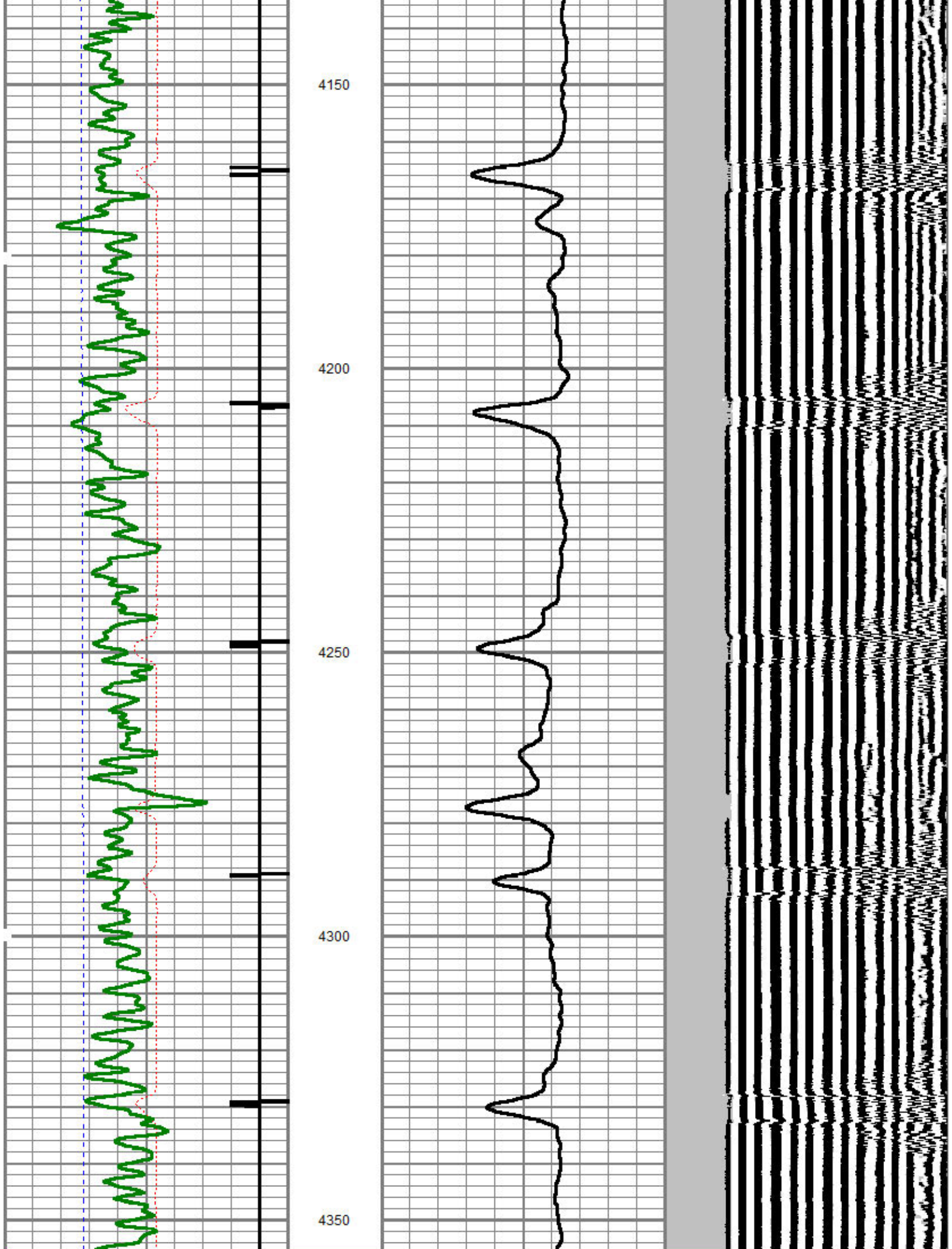
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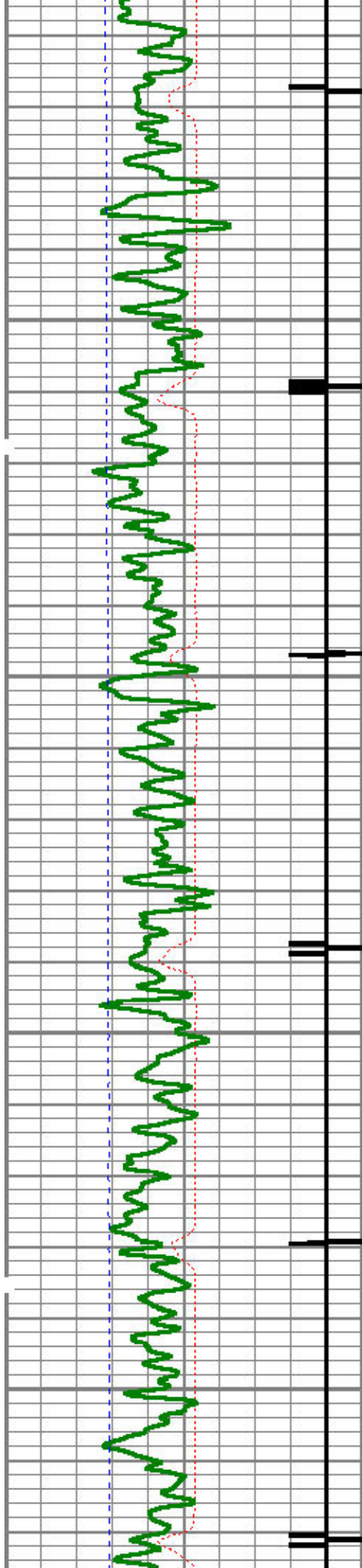










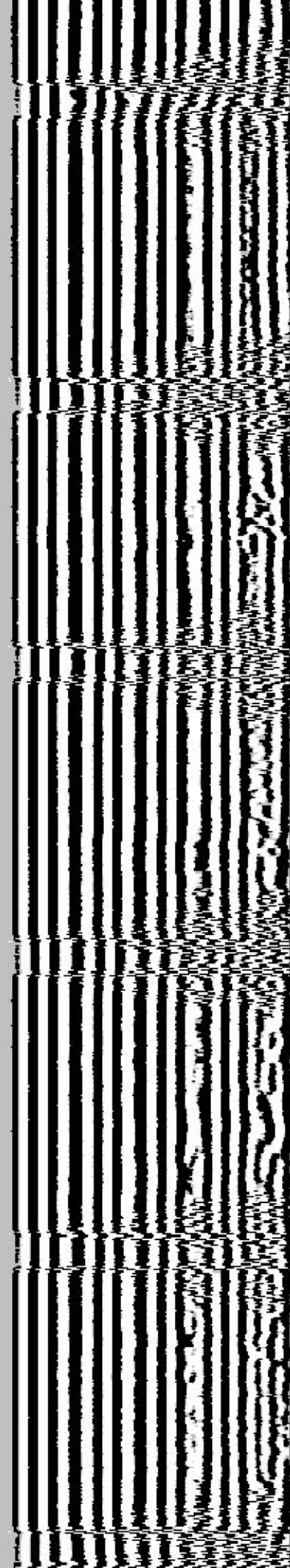
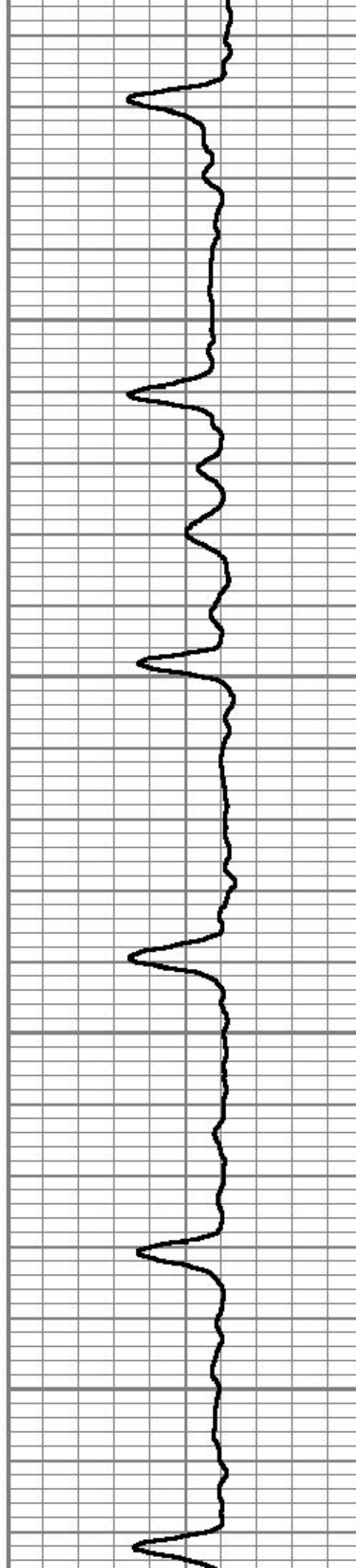


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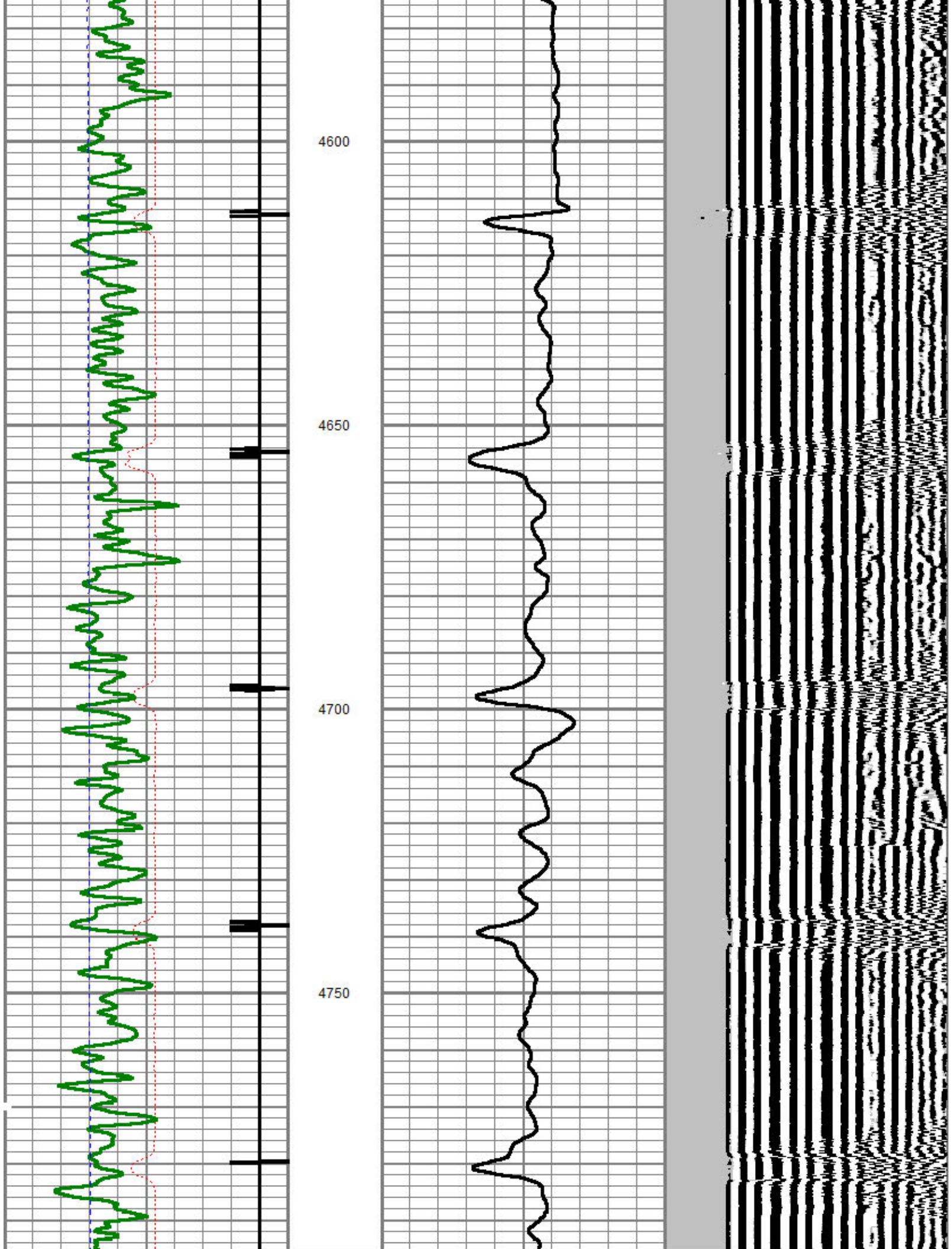
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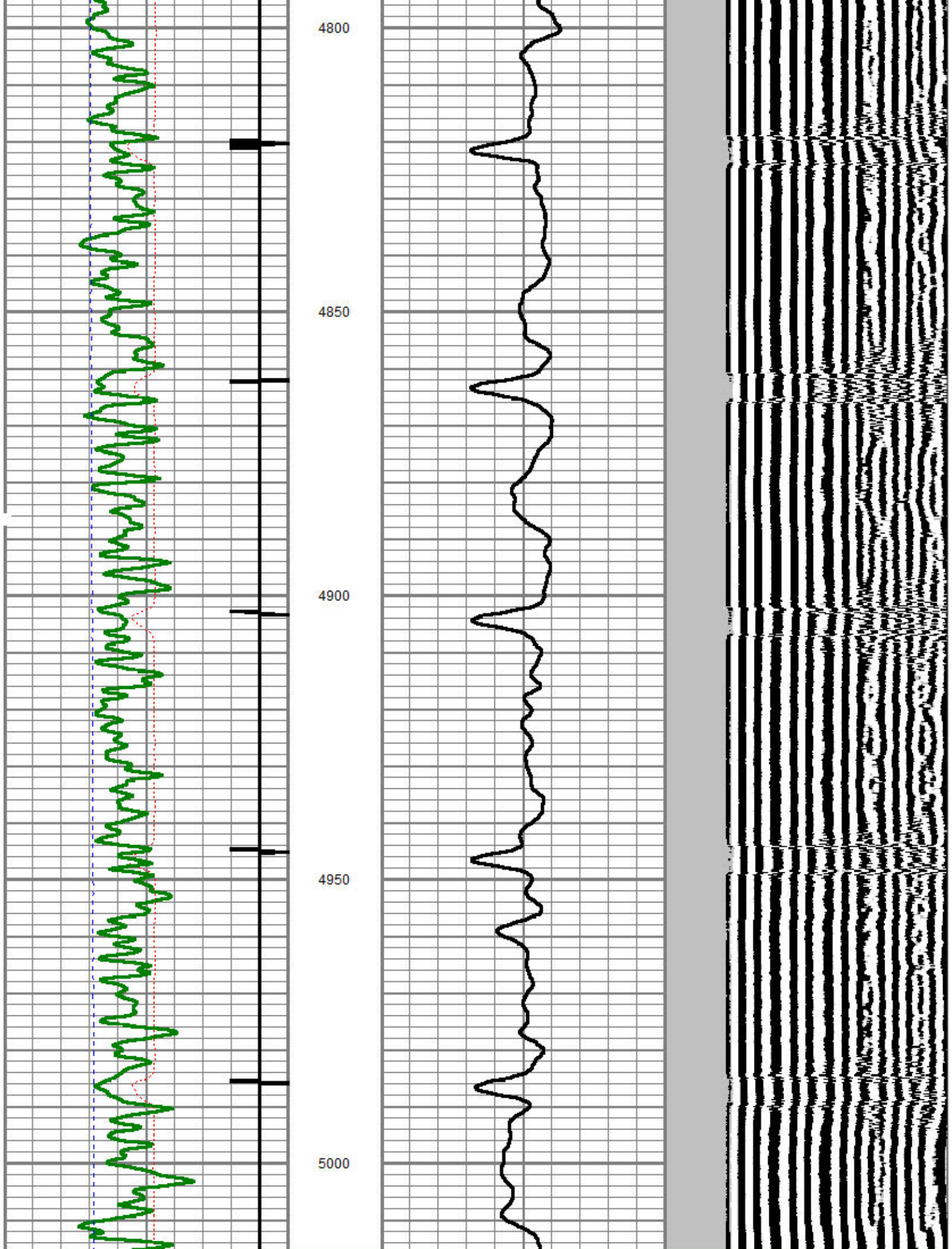
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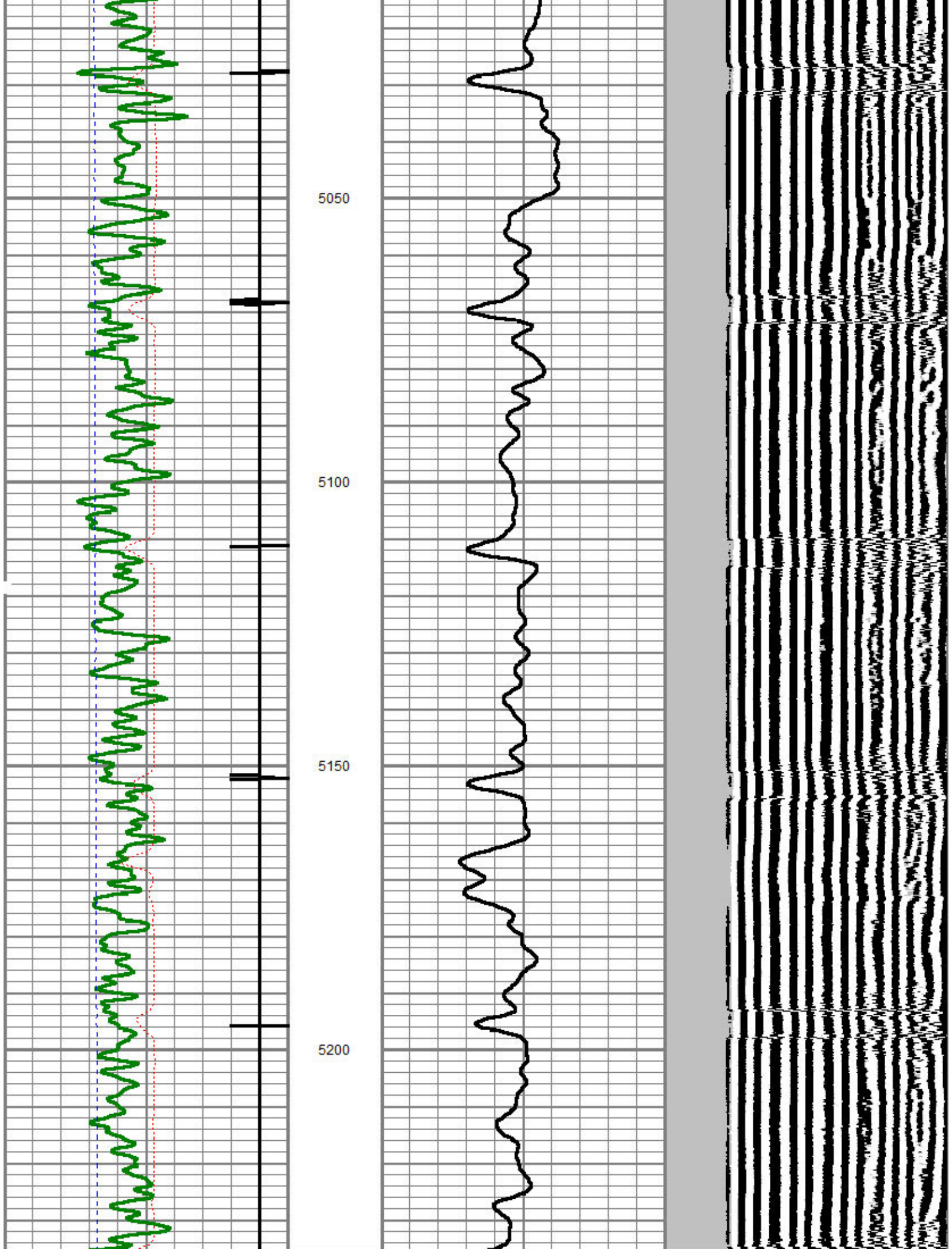


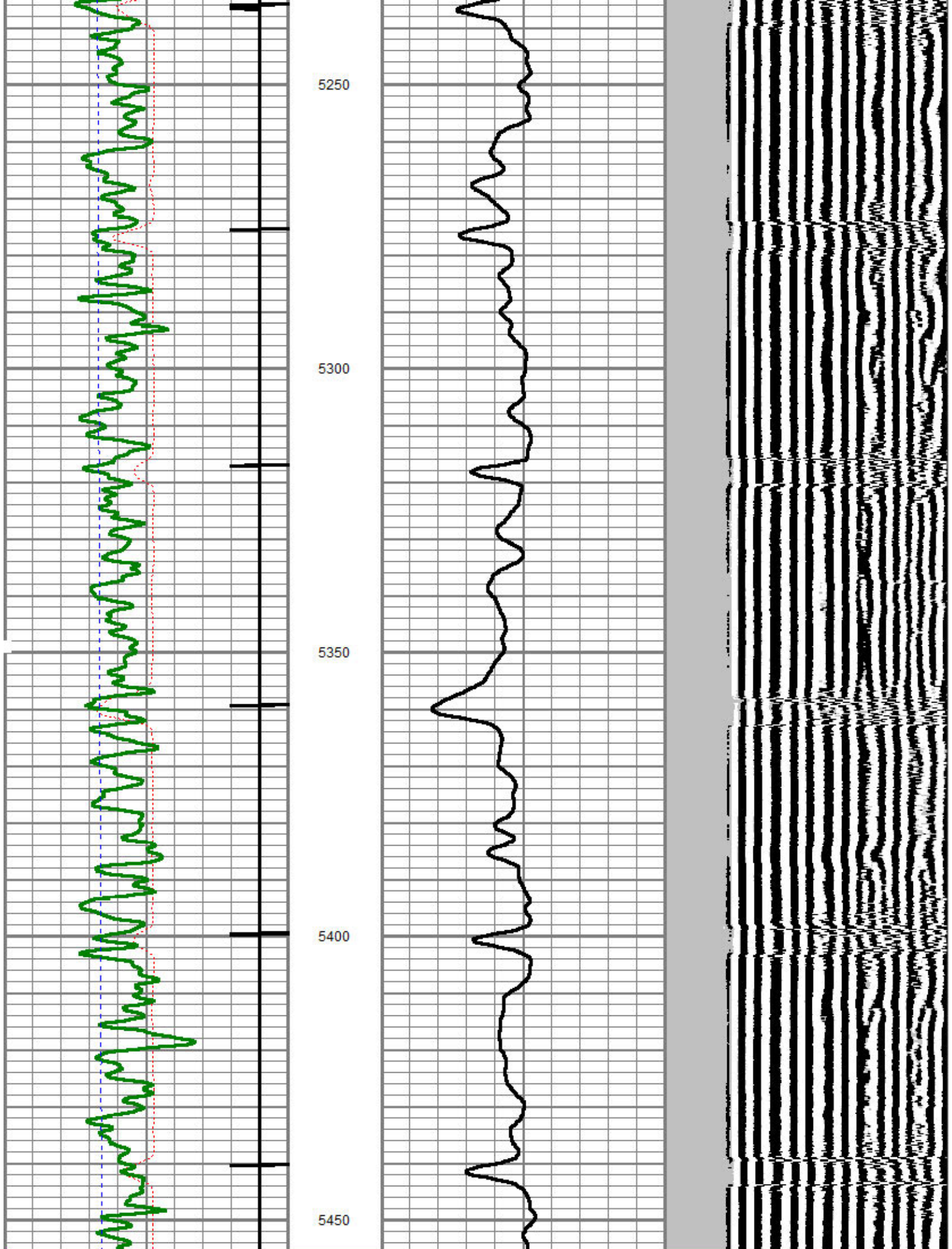




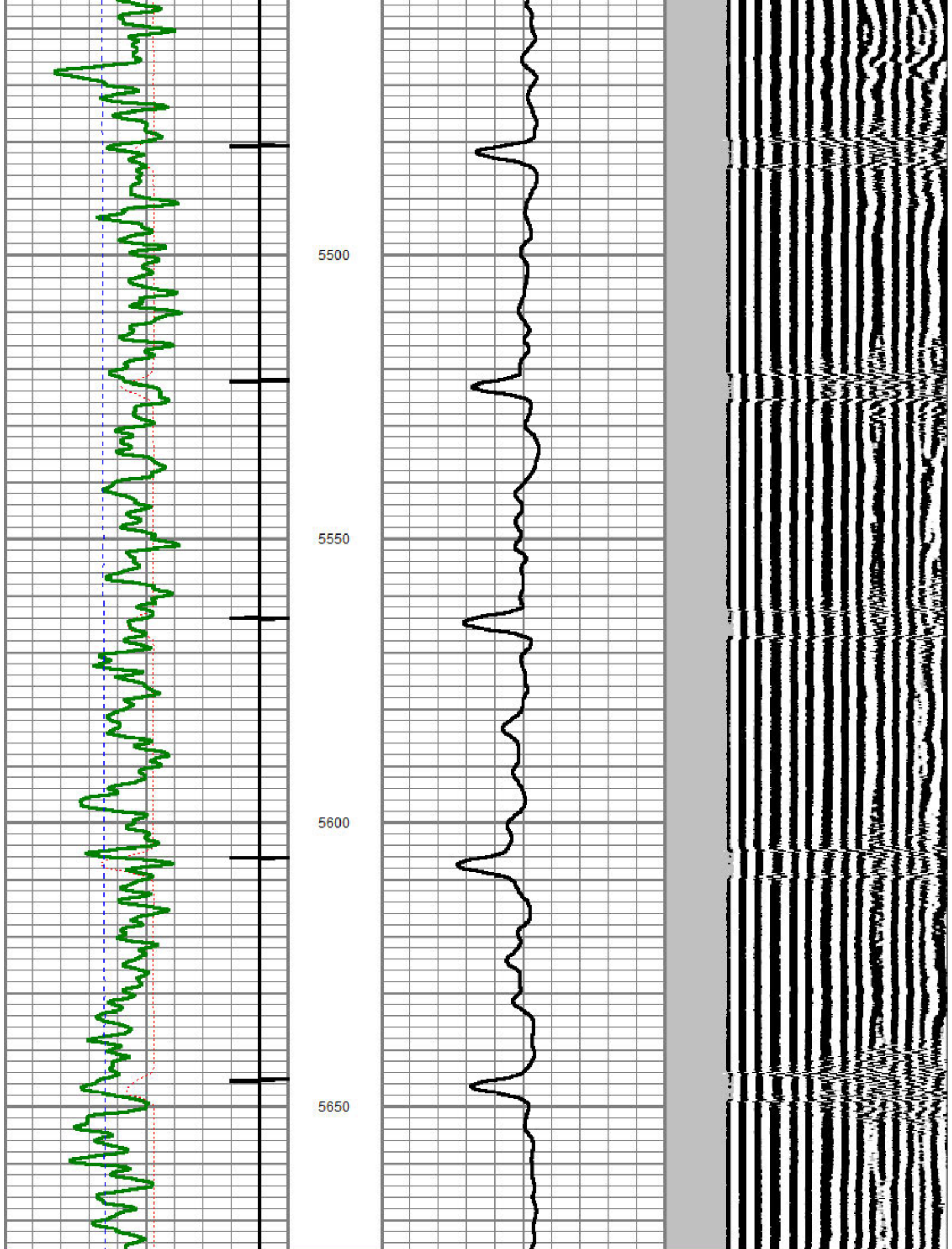


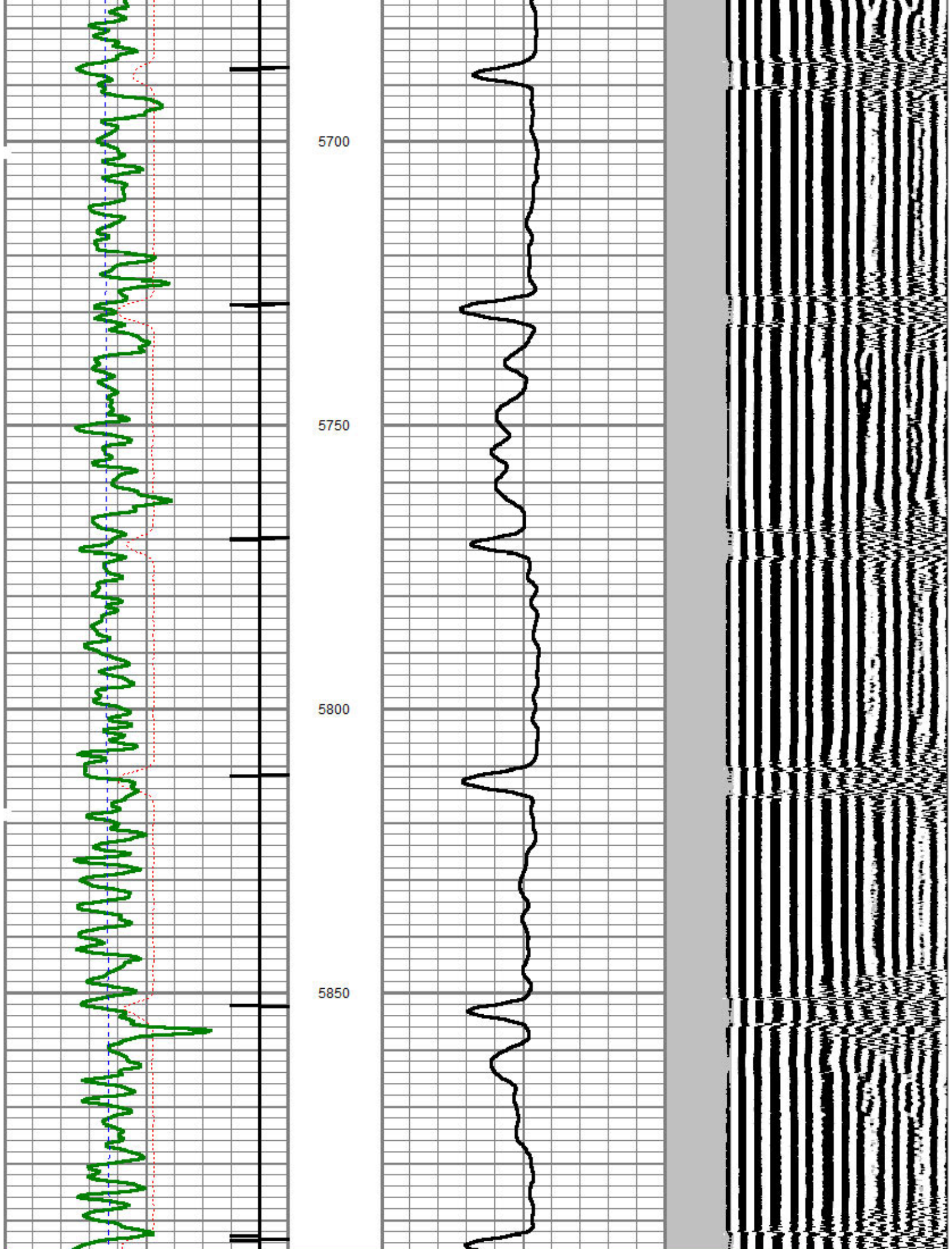




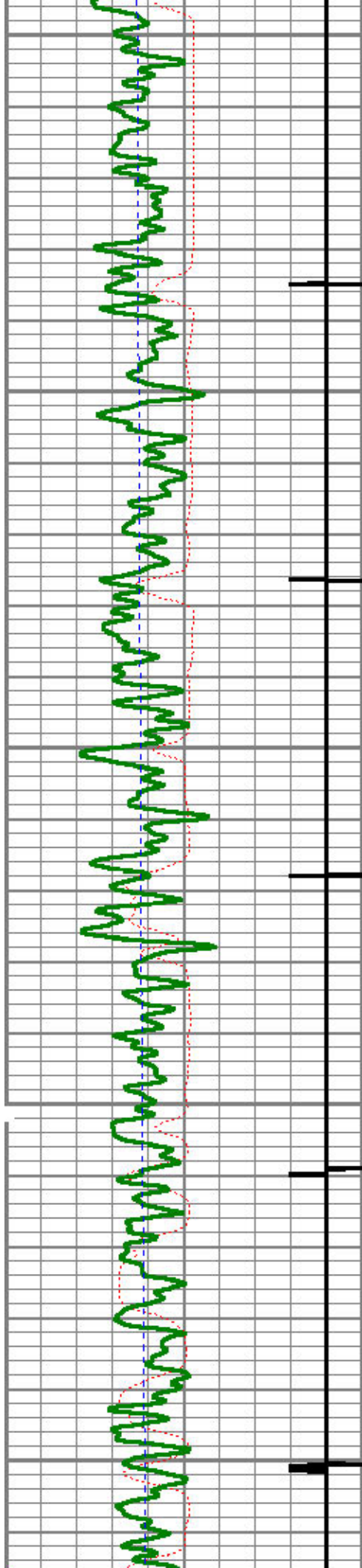












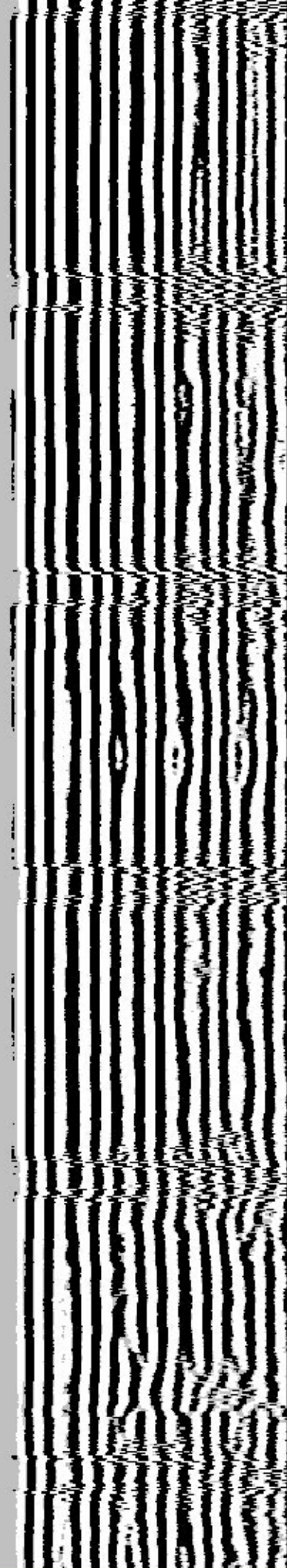
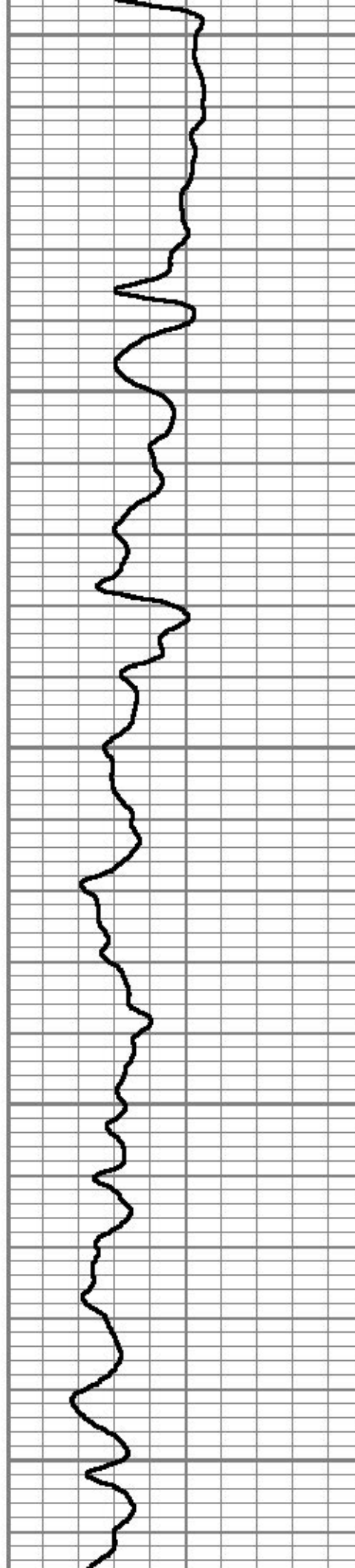
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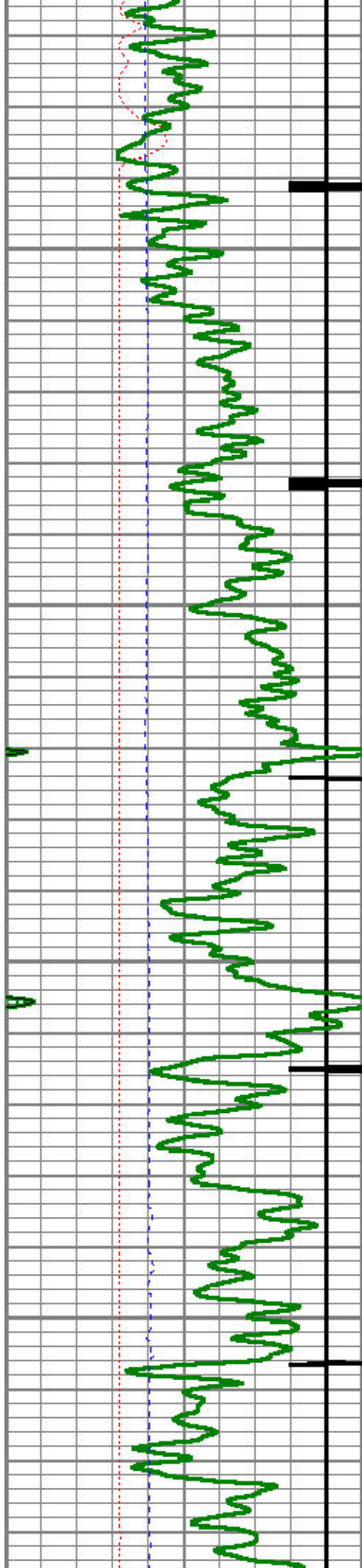
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6100





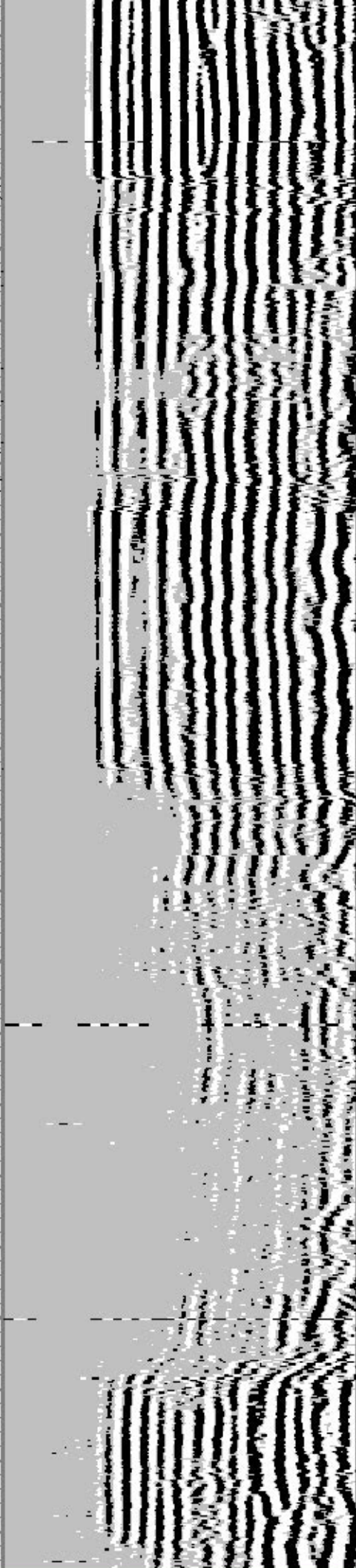
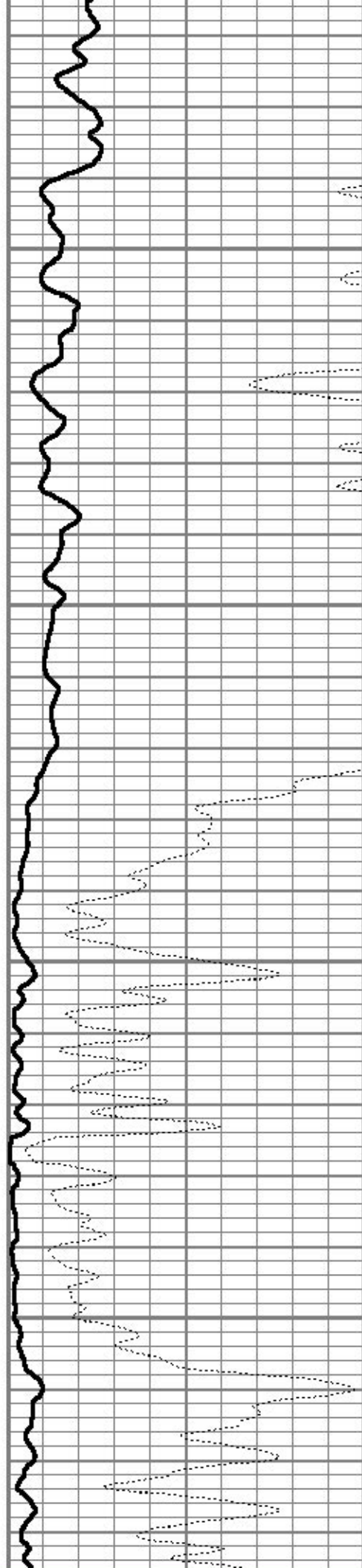


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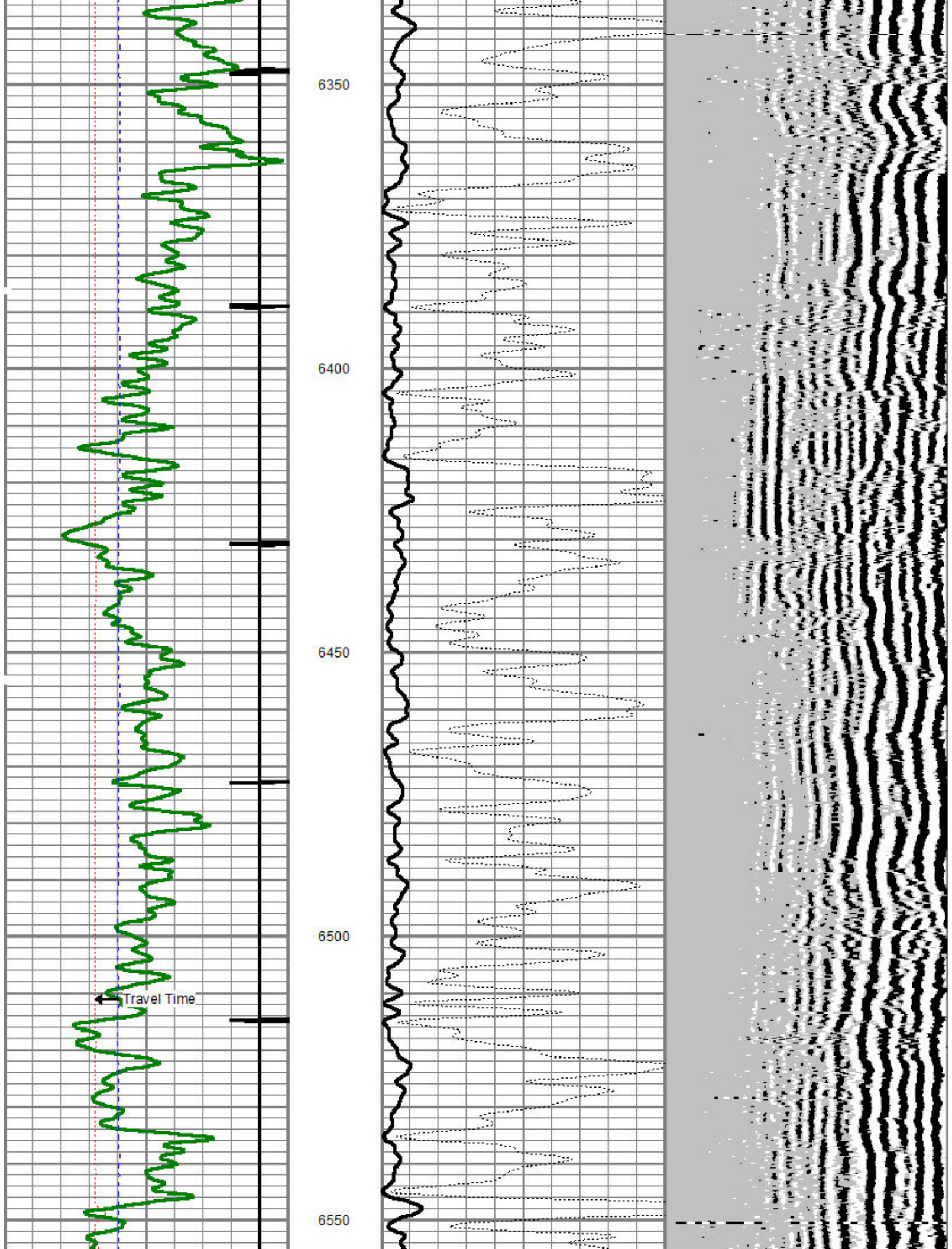
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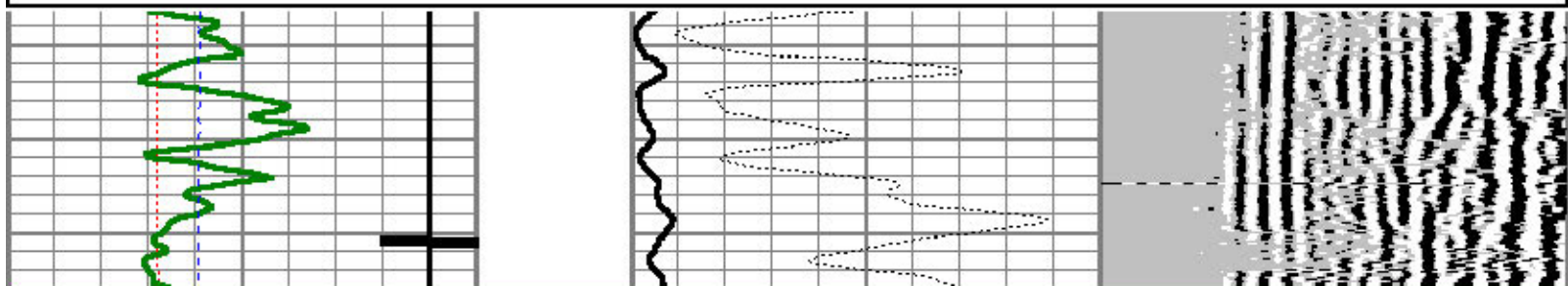
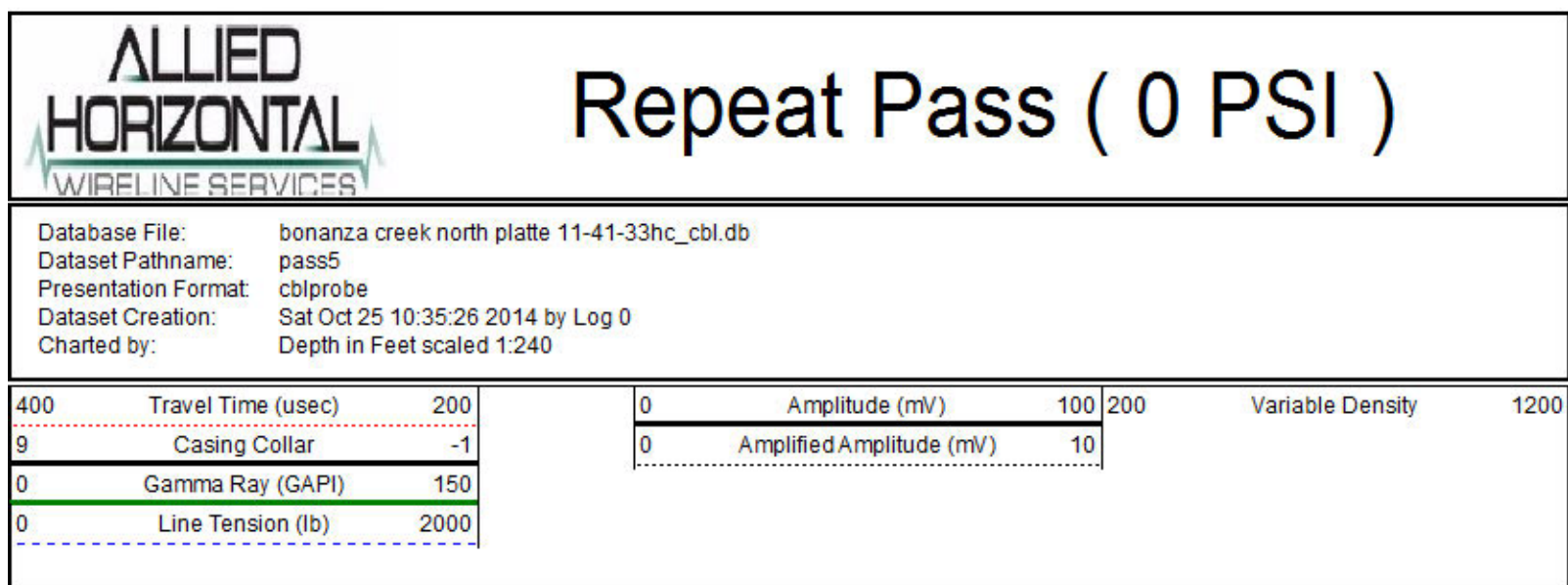
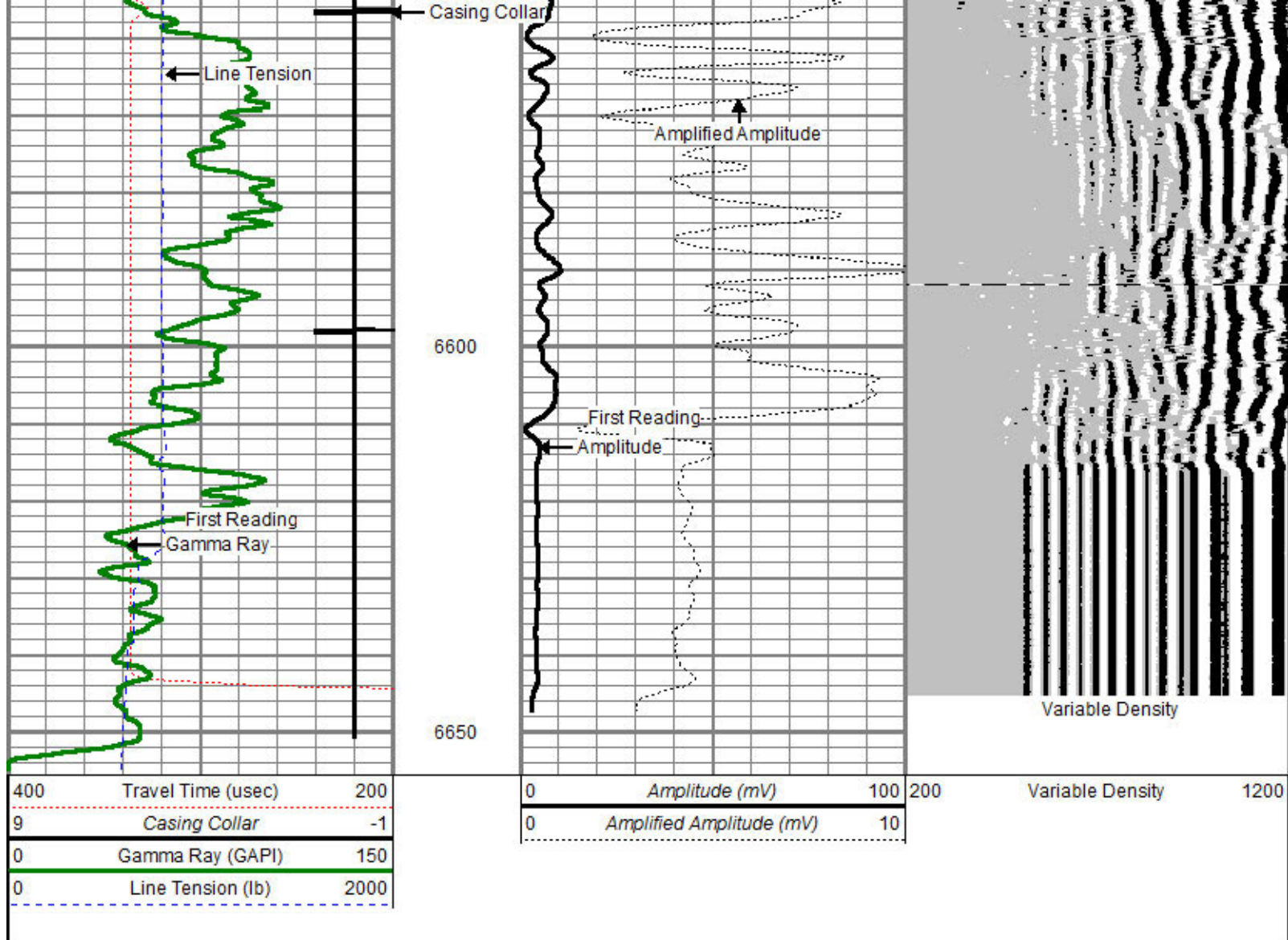
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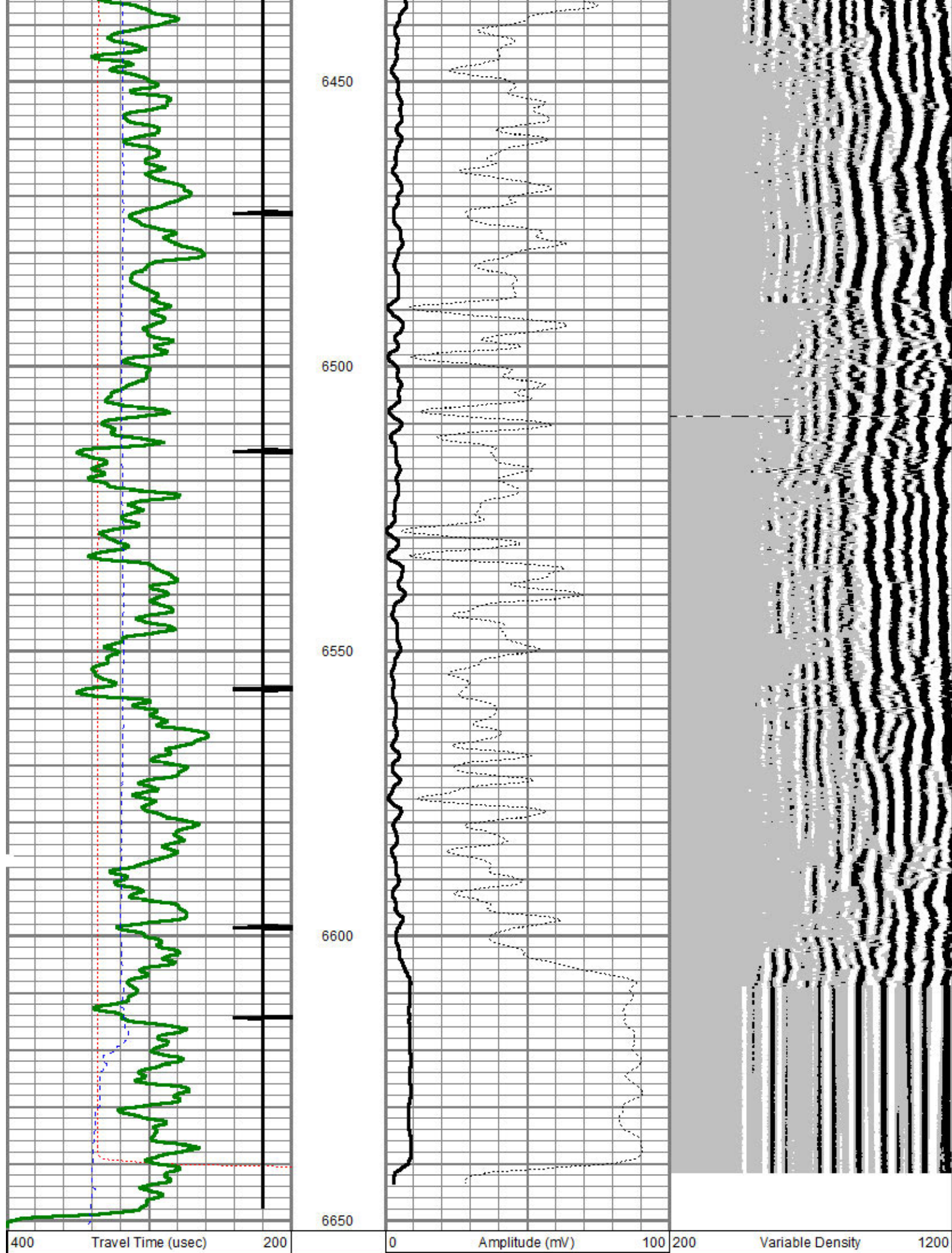












9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

0	Amplified Amplitude (mV)	10
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### Calibration Report

Database File: bonanza creek north platte 11-41-33hc\_cbl.db  
 Dataset Pathname: pass7.1  
 Dataset Creation: Sat Oct 25 12:23:14 2014 by Calc 0

### Gamma Ray Calibration Report

Serial Number: 111111  
 Tool Model: Probe275  
 Performed: Tue Jul 01 18:43:21 2014

Calibrator Value: 1022.0 GAPI

Background Reading: 82.4 cps  
 Calibrator Reading: 1474.8 cps

Sensitivity: 0.6000 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: 101254  
 Tool Model: Probe

Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 4164.950 ft

Master Calibration, performed Sat Oct 25 11:01:47 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.028	0.718	1.000	71.921	122.787	3.036
CAL	-0.024	0.765				
5'	-0.020	0.668	1.000	71.921	103.046	3.109
SUM						
S1	-0.028	0.751	0.000	100.000	128.329	3.578
S2	0.022	0.737	0.000	100.000	139.893	-3.146
S3	0.040	0.700	0.000	100.000	151.513	-6.037
S4	0.034	0.663	0.000	100.000	158.982	-5.467
S5	0.053	0.672	0.000	100.000	161.556	-8.512
S6	0.060	0.714	0.000	100.000	152.947	-9.134
S7	0.056	0.739	0.000	100.000	146.299	-8.151
S8	0.014	0.740	0.000	100.000	137.776	-1.909

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	-0.024	0.765	1.000	0.000

Air Zero Calibration, performed Sat Feb 22 08:53:18 2014:

	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	11.06		RBT-Probe (101254) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.06					
WVFS1	11.06					
WVFS2	11.06					
WVFS3	11.06					
WVFS4	11.06					
WVFS5	11.06					
WVFS6	11.06					
WVFS7	11.06					
WVFS8	11.06					
WVF5FT	10.06					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	3.88					
GR	2.54		GR-Probe275 (111111) Probe 2 3/4" Logging Gamma Ray	4.00	2.75	57.00

