



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

Company	Bonanza Creek Energy	Company	Bonanza Creek Energy
Well	Pronghorn F-J-15HNB	Well	Pronghorn F-J-15HNB
Field	Wildcat	Field	Wildcat
County	Wattenberg	County	Wattenberg
State	Colorado	State	Colorado
Location:		API # : 05-123-36146	Other Services
430' FNL & 1187' FWL		None	
SEC 15	TWP 5 N	RGE 61 W	
Permanent Datum	Ground Level	Elevation	4648'
Log Measured From	Kelly Bushing	15' APD	
Drilling Measured From	Kelly Bushing		
Elevation	K.B. 4663'	D.F. 4664'	G.L. 4648'
Date	27-March-2013		
Run Number	One		
Depth Driller	10722'		
Depth Logger	6342'		
Bottom Logged Interval	6330'		
Top Log Interval	Surface		
Open Hole Size	8 3/4"		
Type Fluid	Water		
Density / Viscosity	-		
Max. Recorded Temp.	-		
Estimated Cement Top	NA		
Time Well Ready	1030		
Time Logger on Bottom	1145		
Equipment Number	12029		
Location	Brighton, CO		
Recorded By	R.Grissom		
Witnessed By	Kurt Dodge		Kevin Bunker
Borehole Record		Tubing Record	
Run Number	Bit	From	To
1	13.5"	Surface	410'
2	8.75"	410'	6536'
3	6.125"	6536'	10891'
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			
Production String	7"	26#	Surface
Liner	4.5"	11 6#	6436'
Short Joint			10891'

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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

Well logged using 15' KB

Main Pass and Repeat Pass logged with zero pressure on wellbore.

Your Crew Today. R.Grissom, C.Rall, C.Medina

Thank You for using Allied Wireline

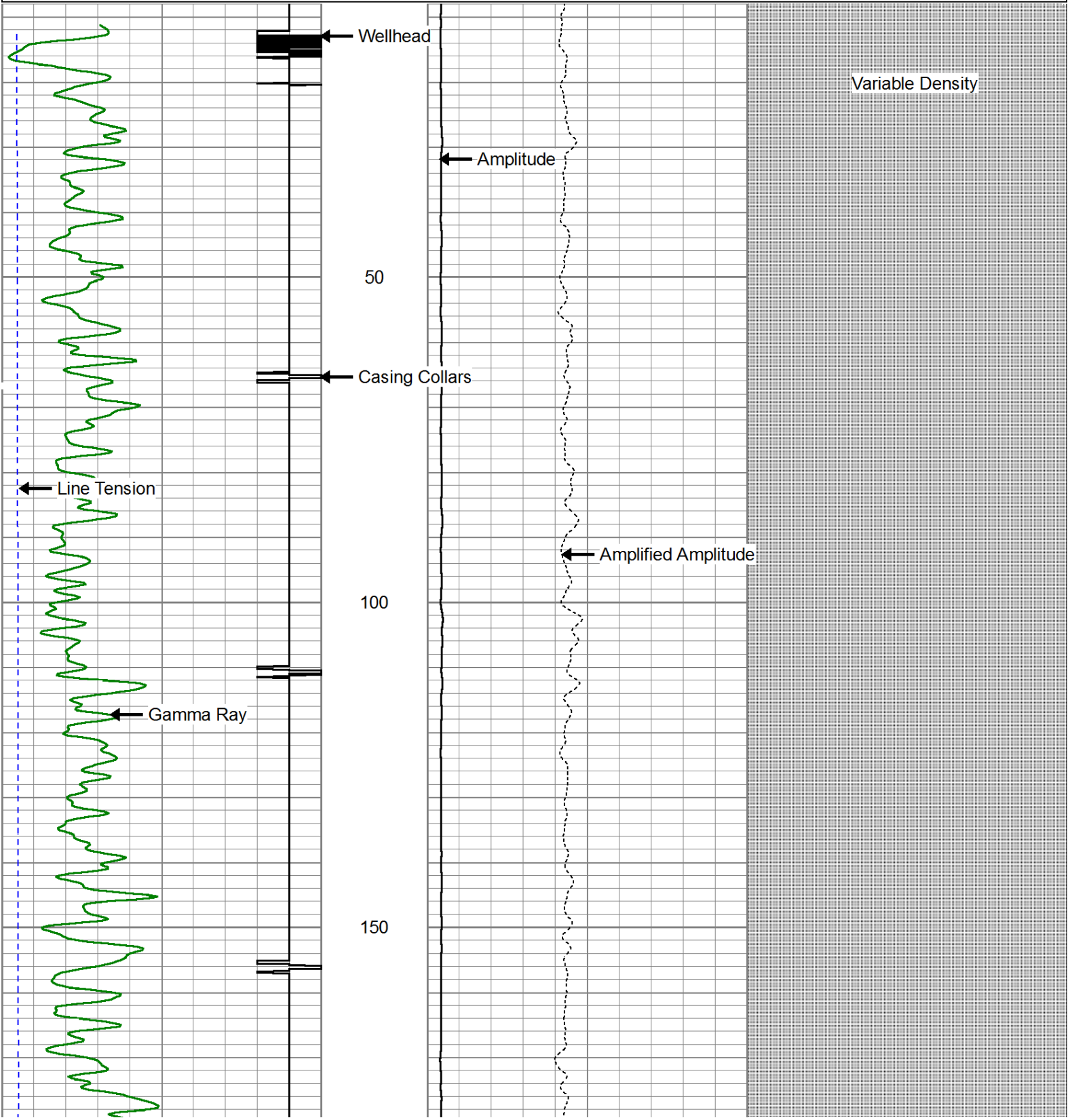
(303) 659-4609

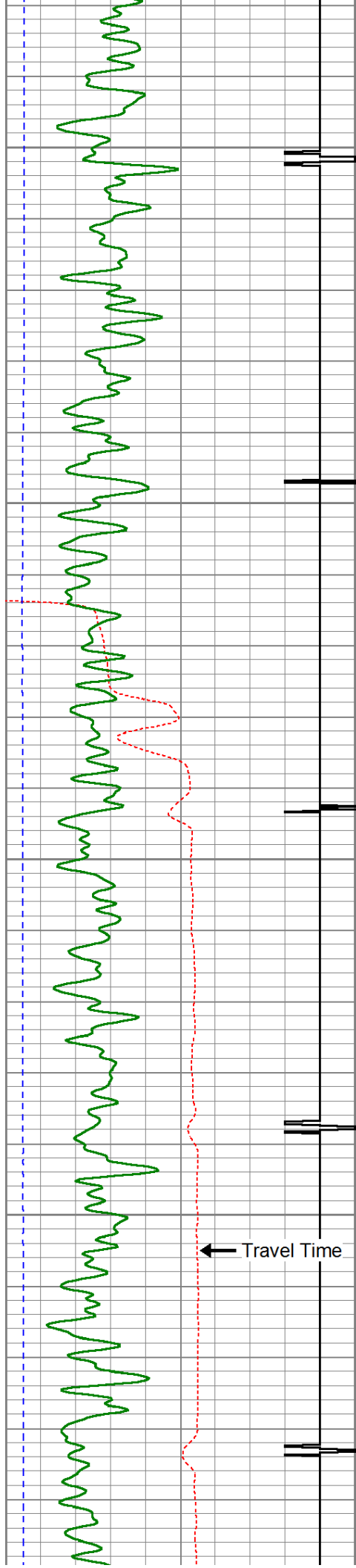


Main Pass ( 0 PSI )

Database File: bonanza\_creek\_pronghorn\_f\_j\_15\_cbl.db  
Dataset Pathname: merge1  
Presentation Format: cblprobe  
Dataset Creation: Wed Mar 27 15:04:40 2013  
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	0	Amplitude (mV)	100	200	Variable Density	1200
9	Collar Locator	-1	0	Amplified Amplitude (mV)	10			
0	GR (GAPI)	150						
0	Line Tension (lb)	5000						





200

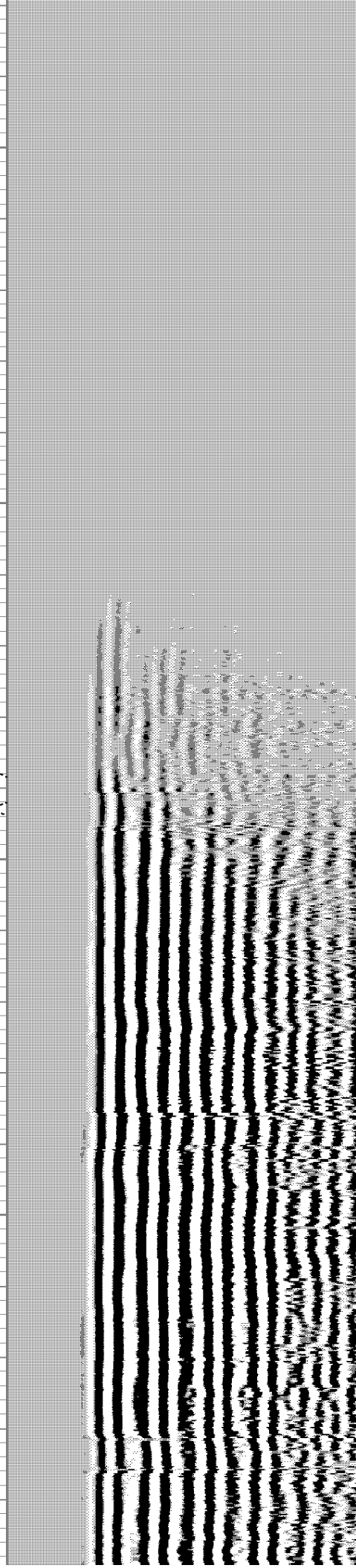
250

300

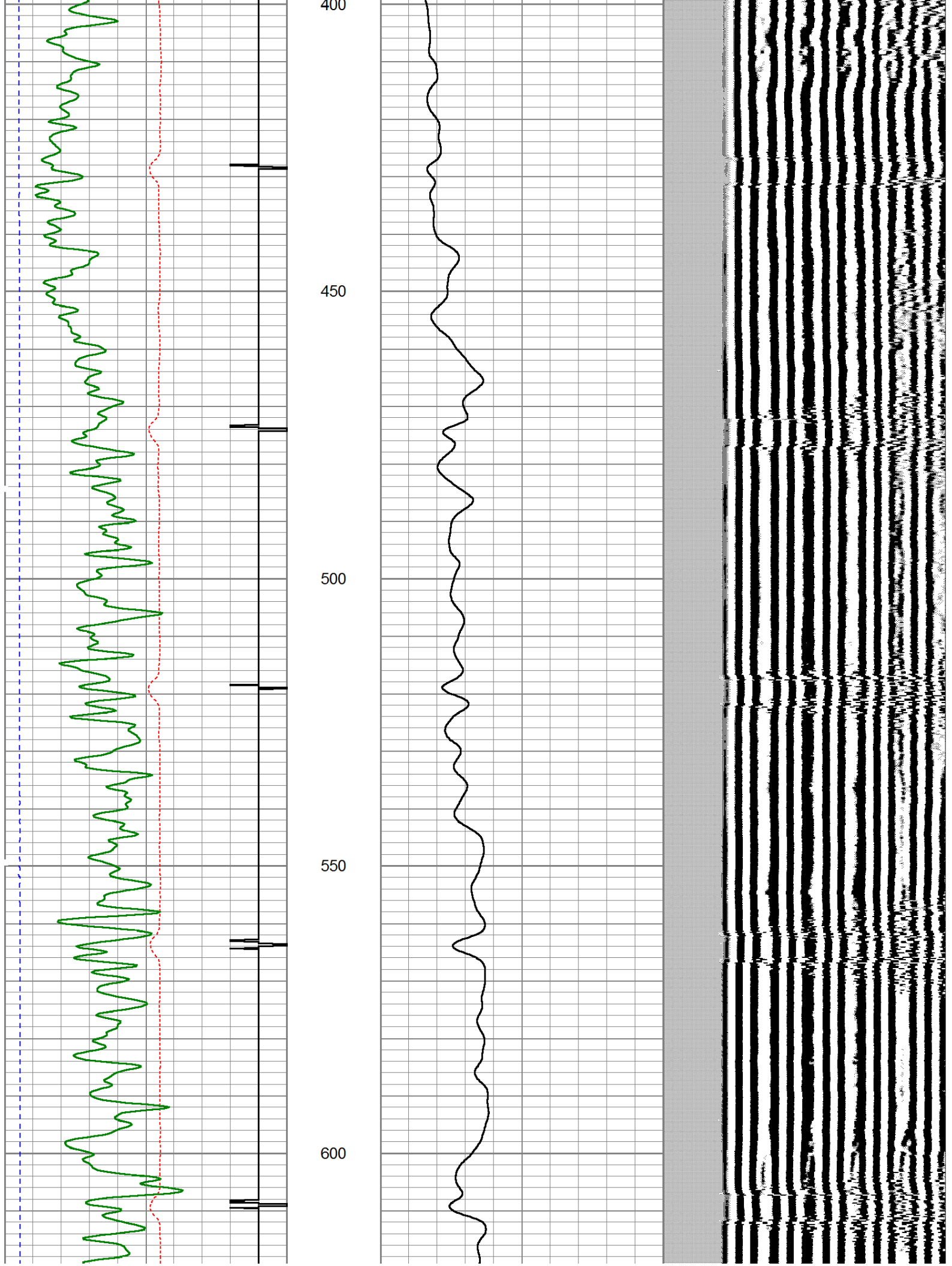
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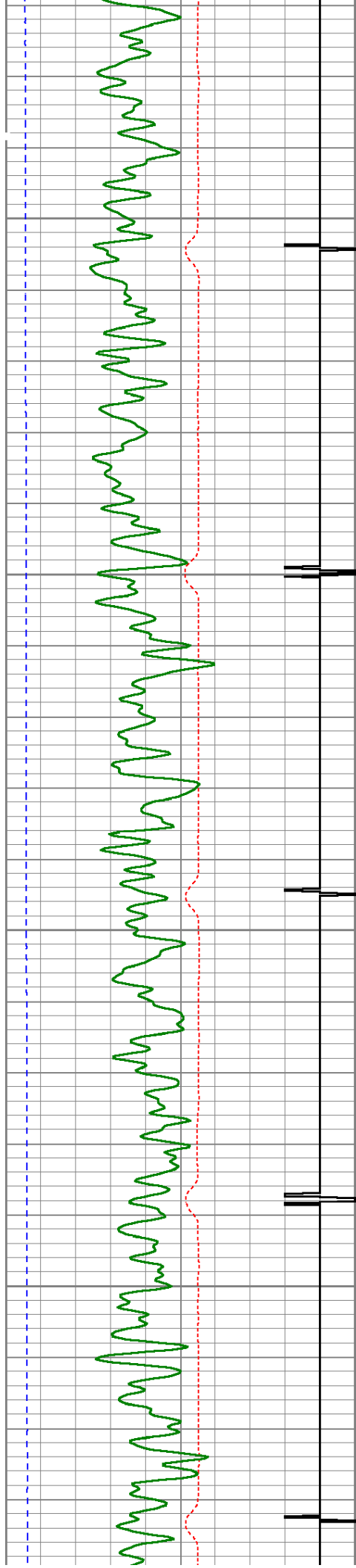
Fluid Level

Travel Time







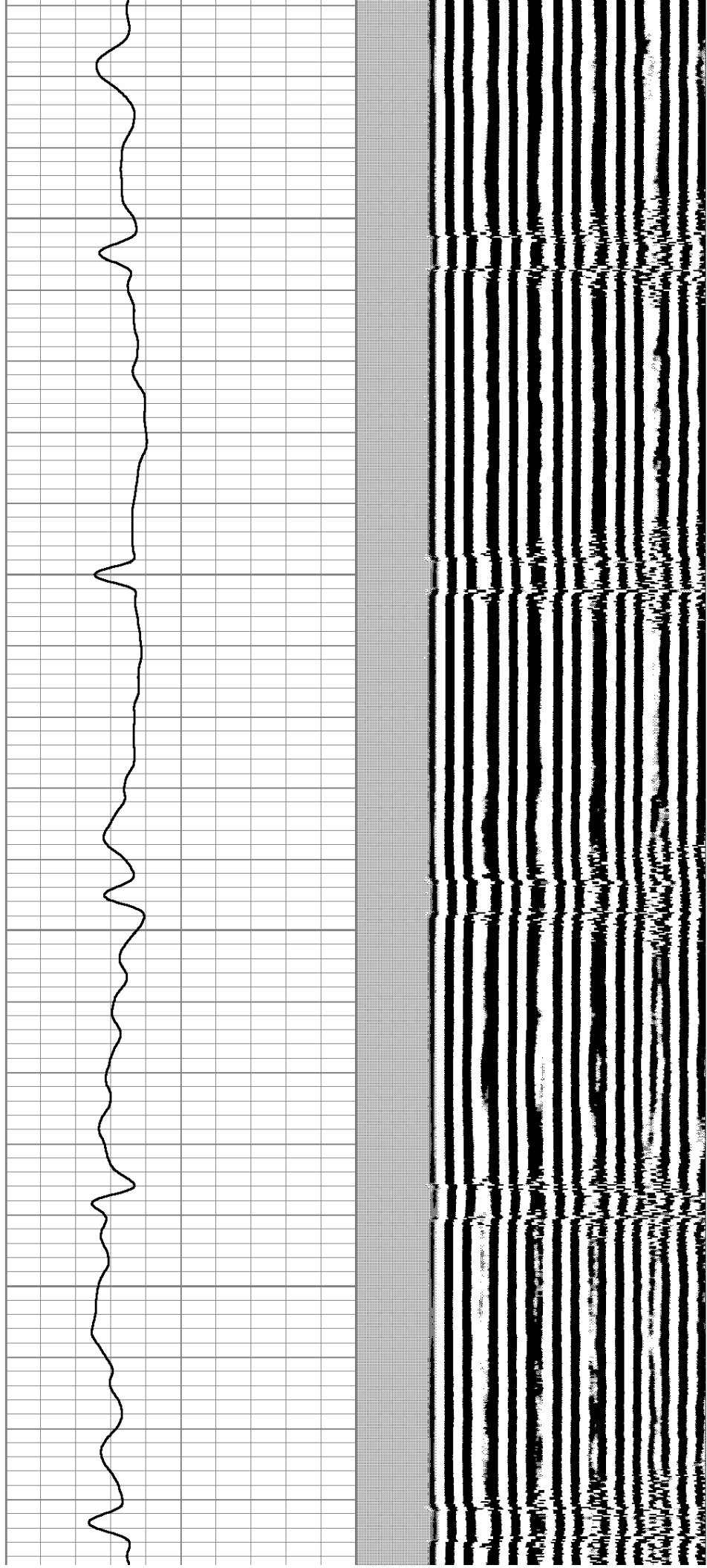


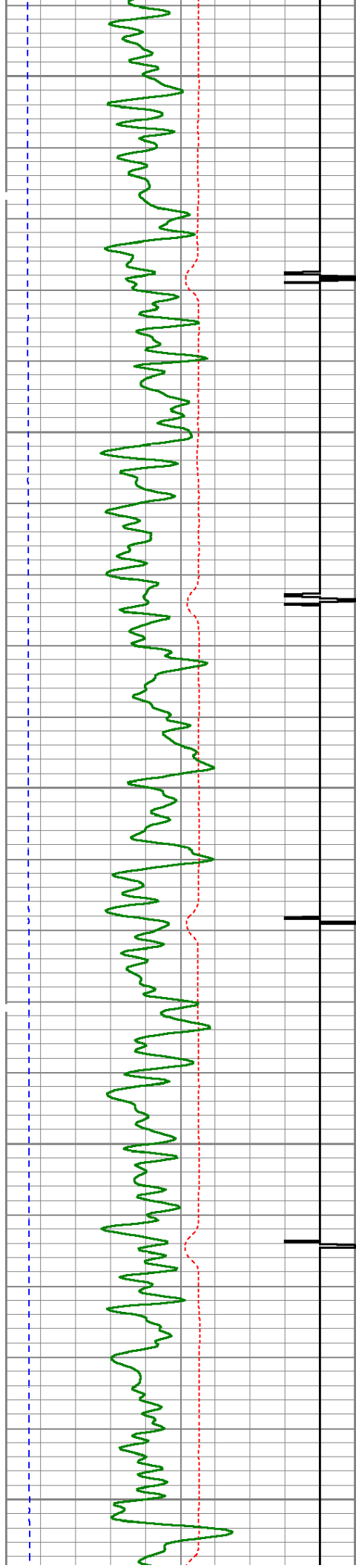
650

700

750

800





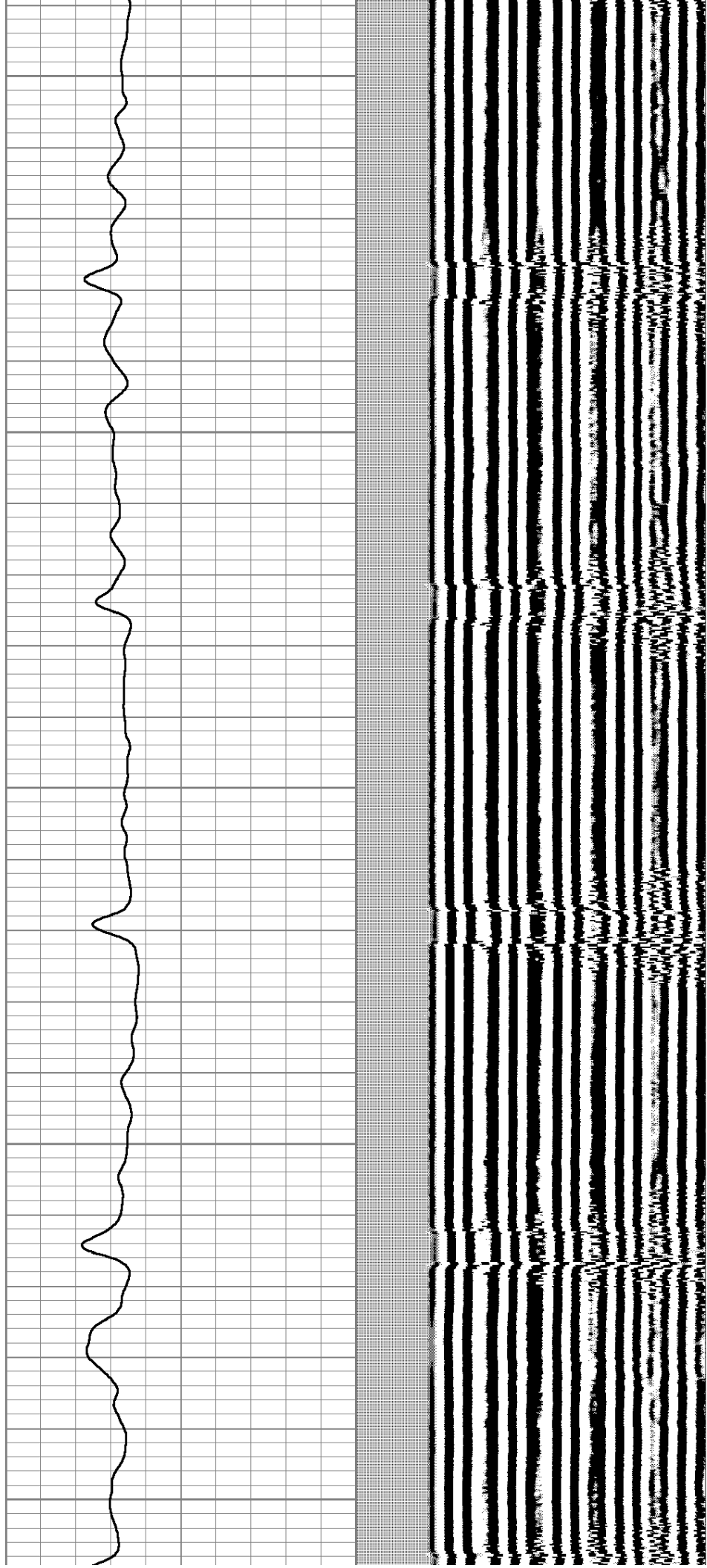
850

900

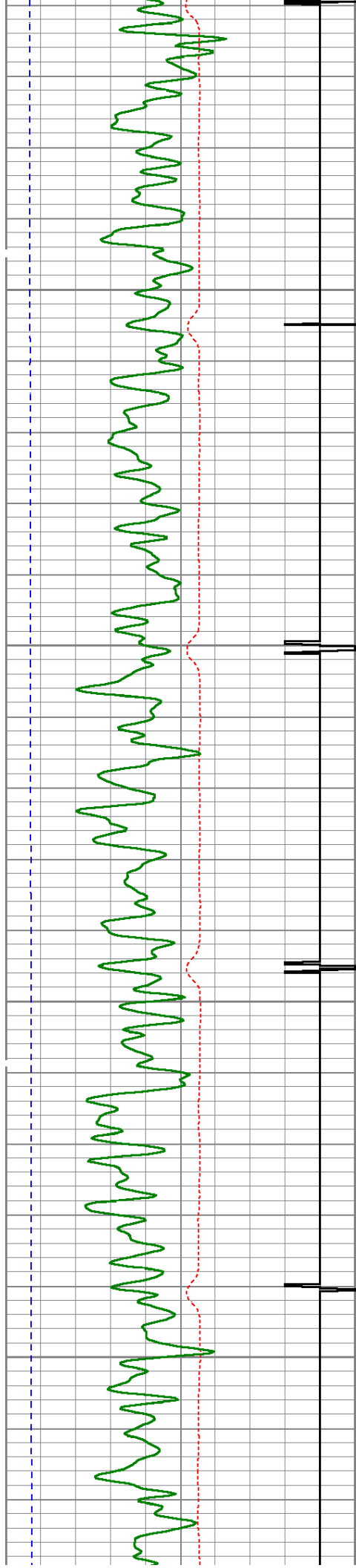
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1000

1050





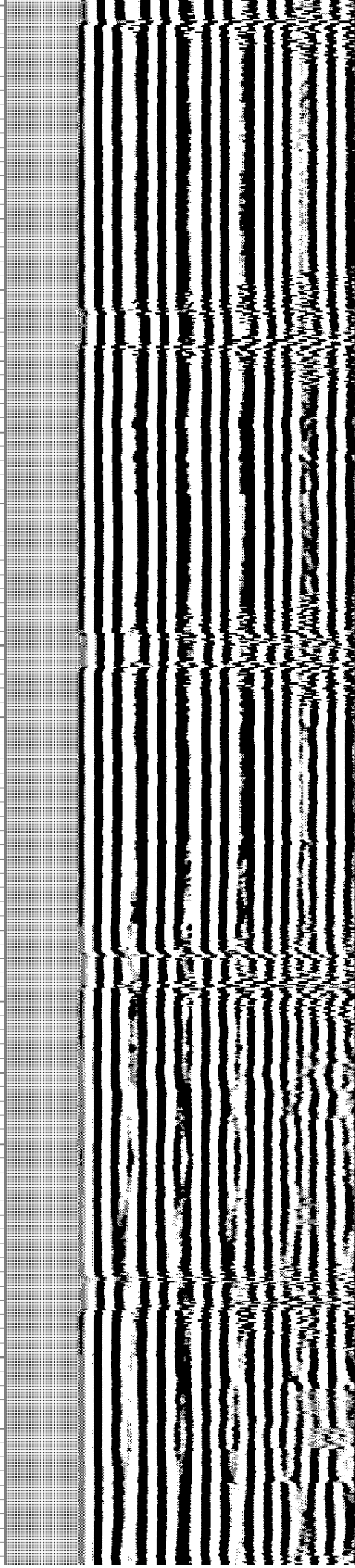
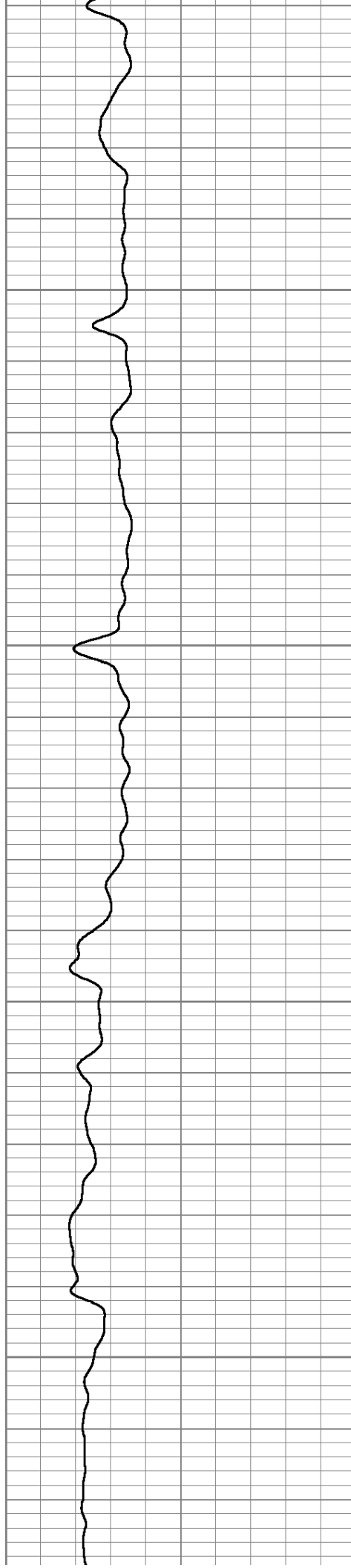


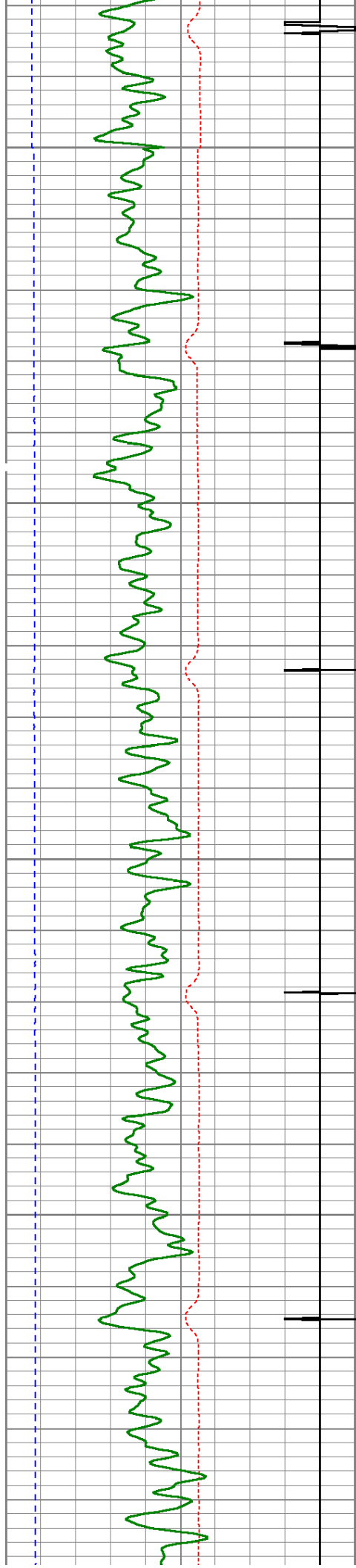
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1150

1200

1250



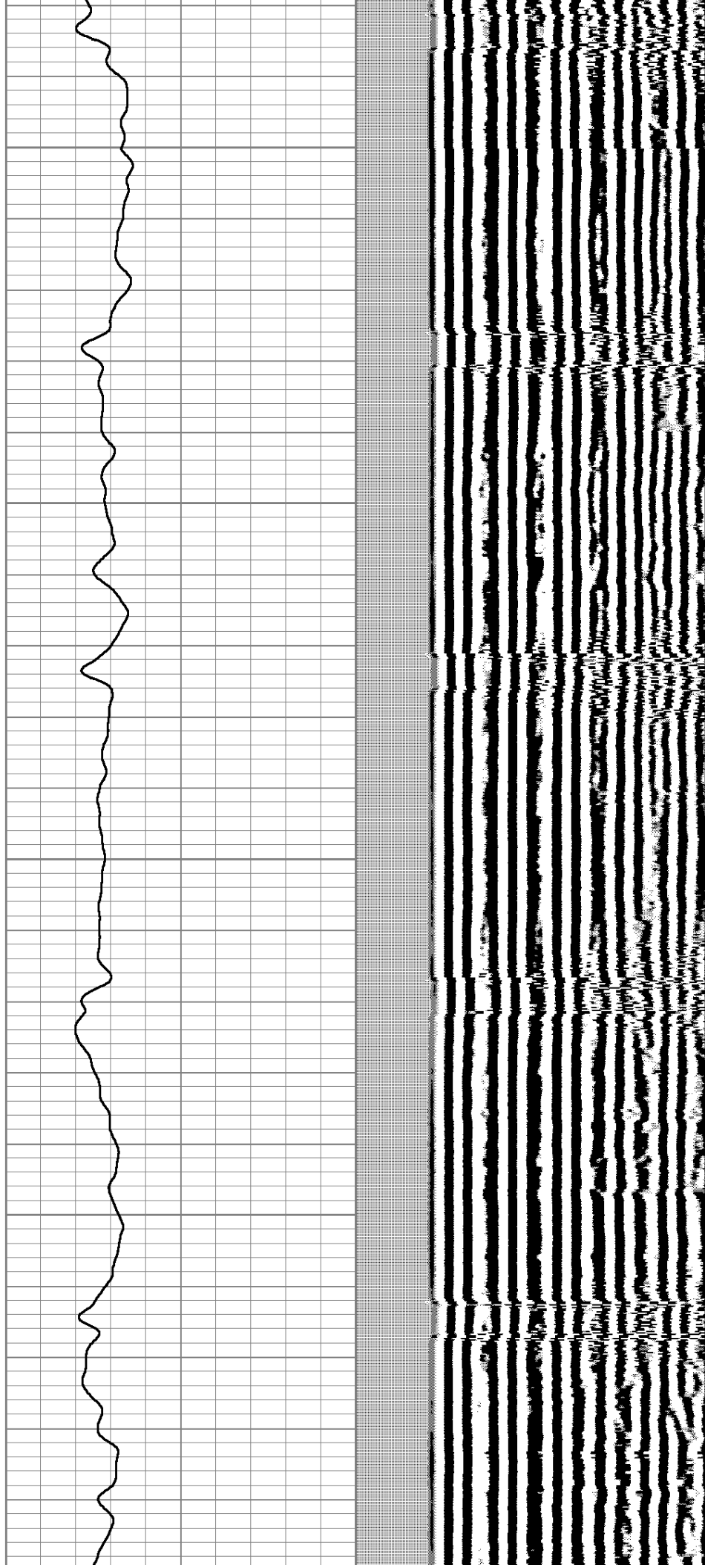


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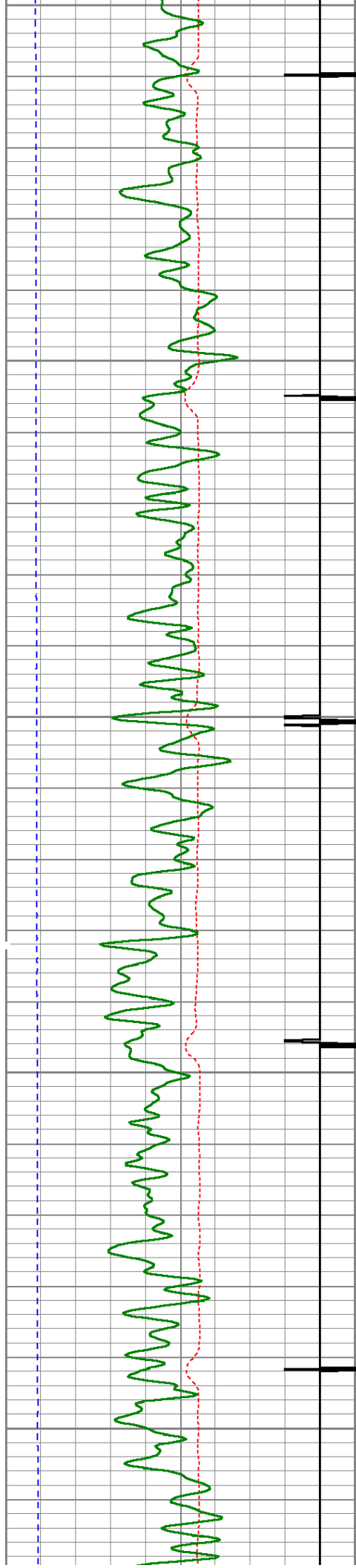
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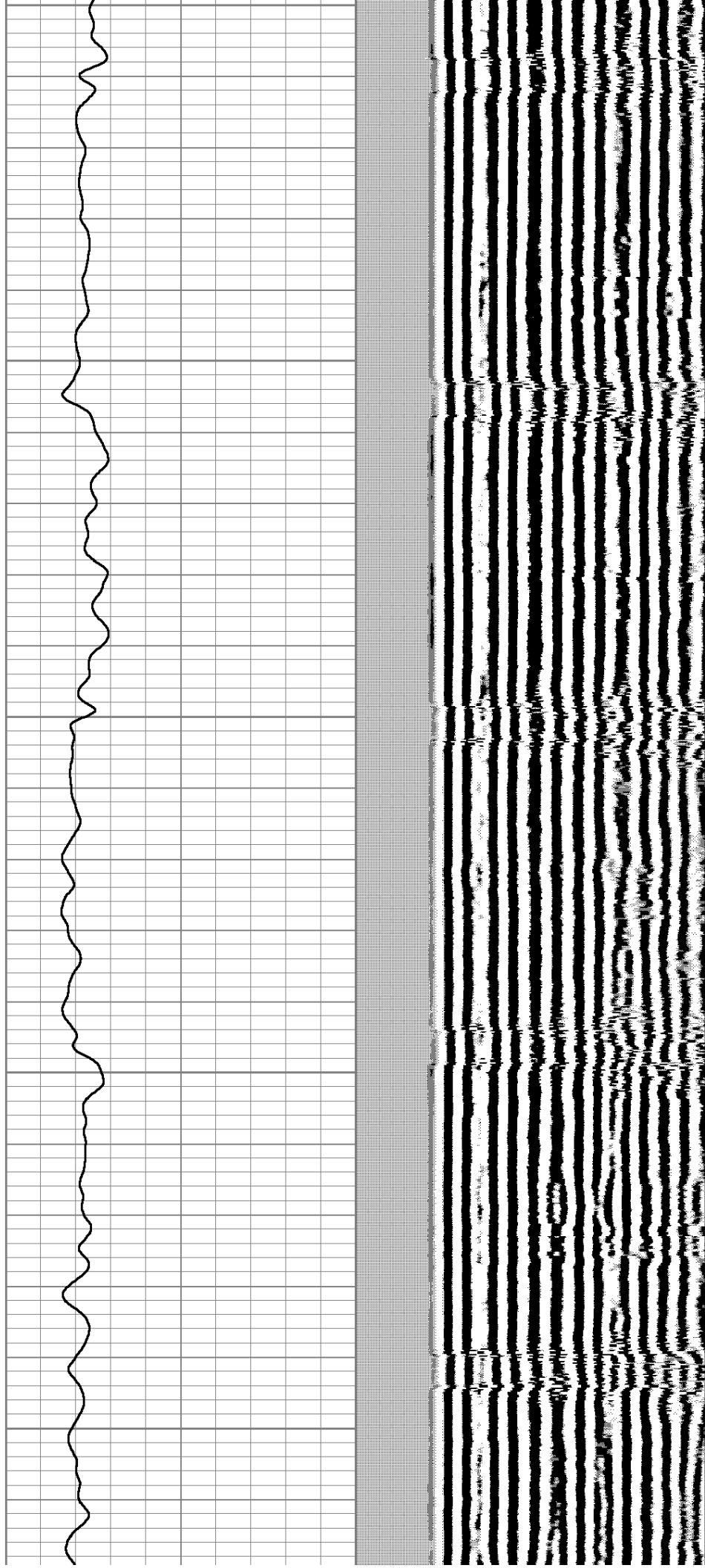
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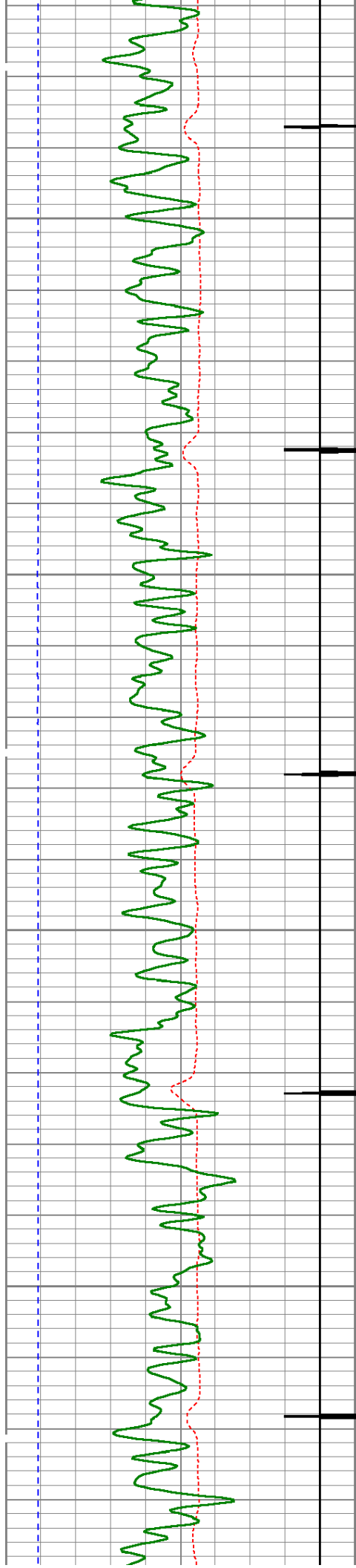






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1550  
1600  
1650  
1700



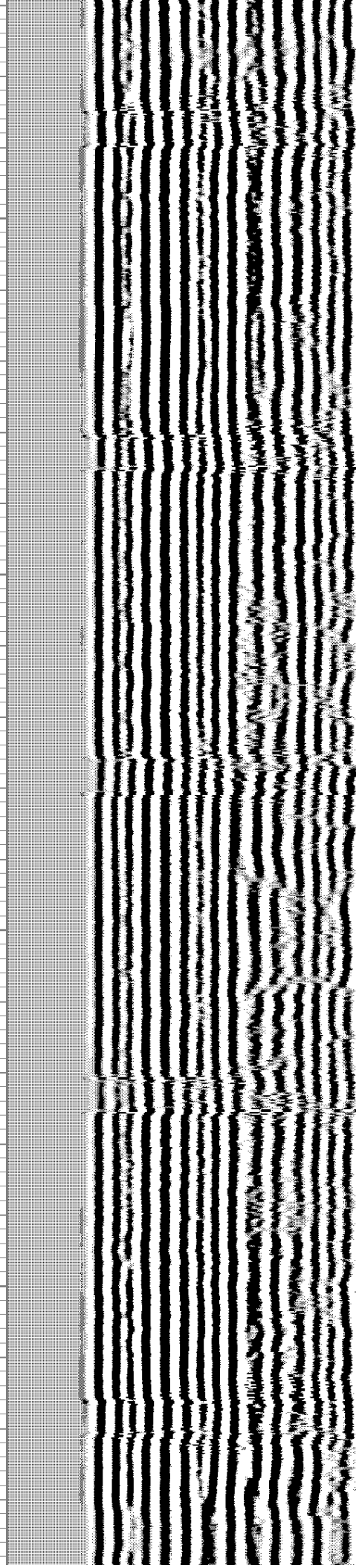
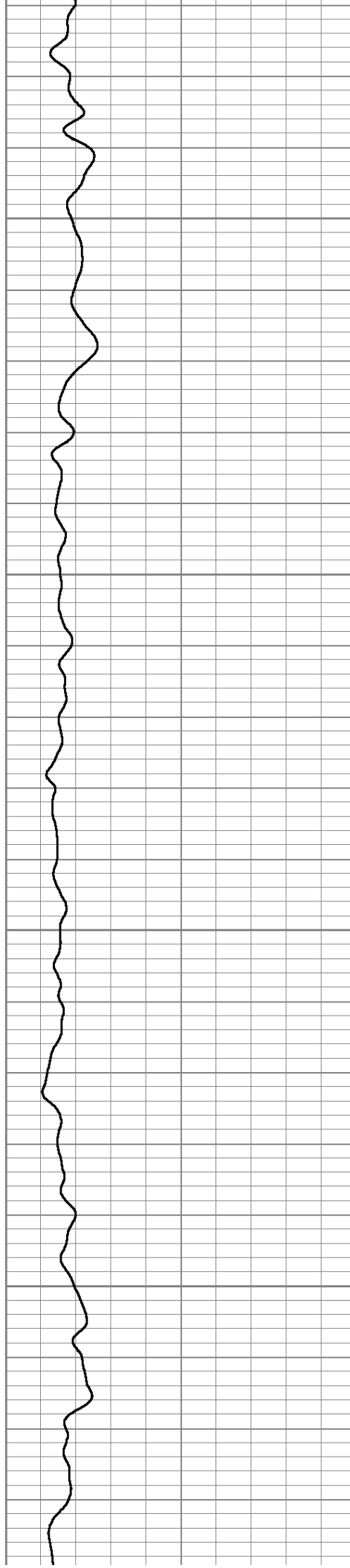


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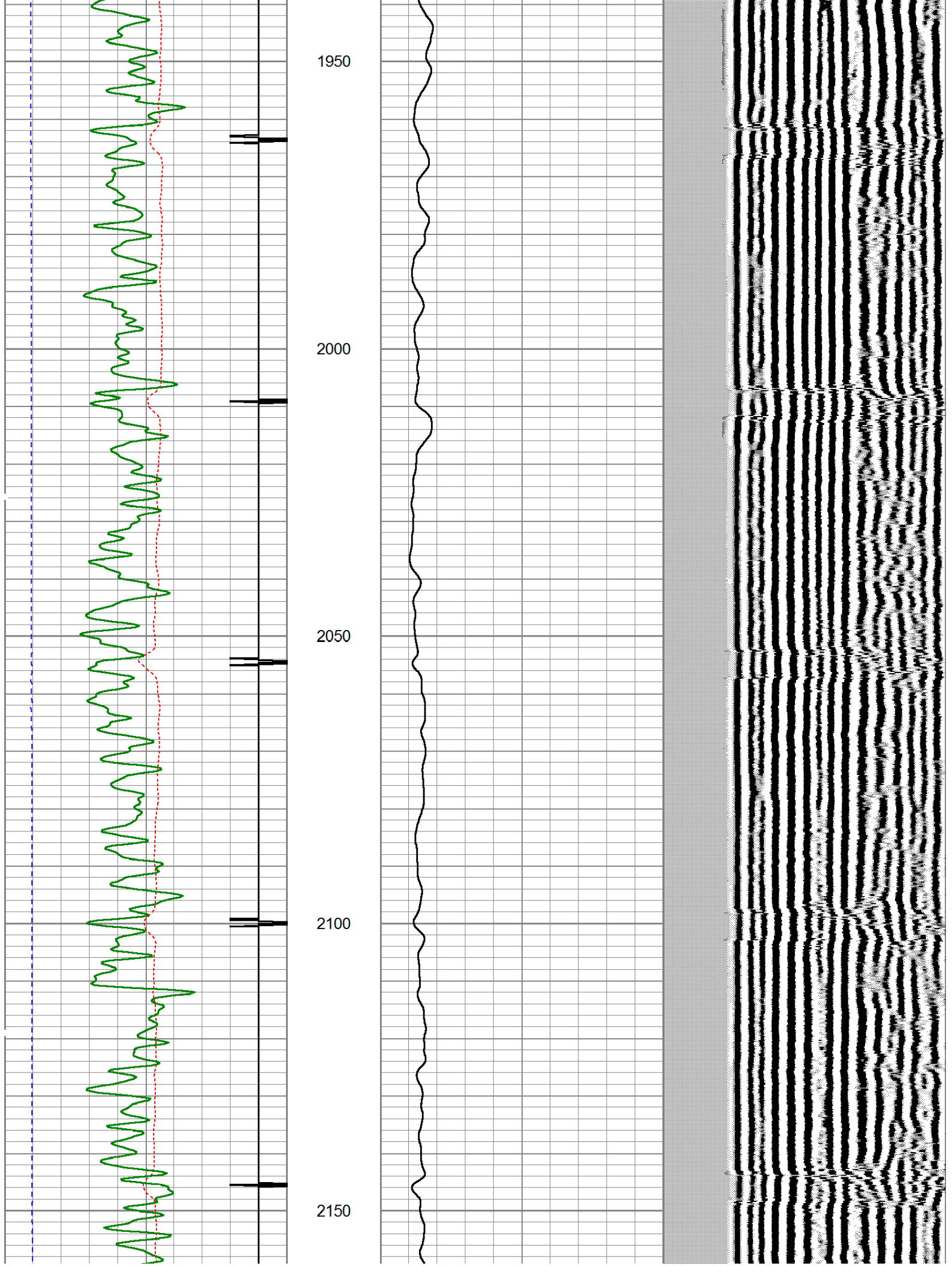
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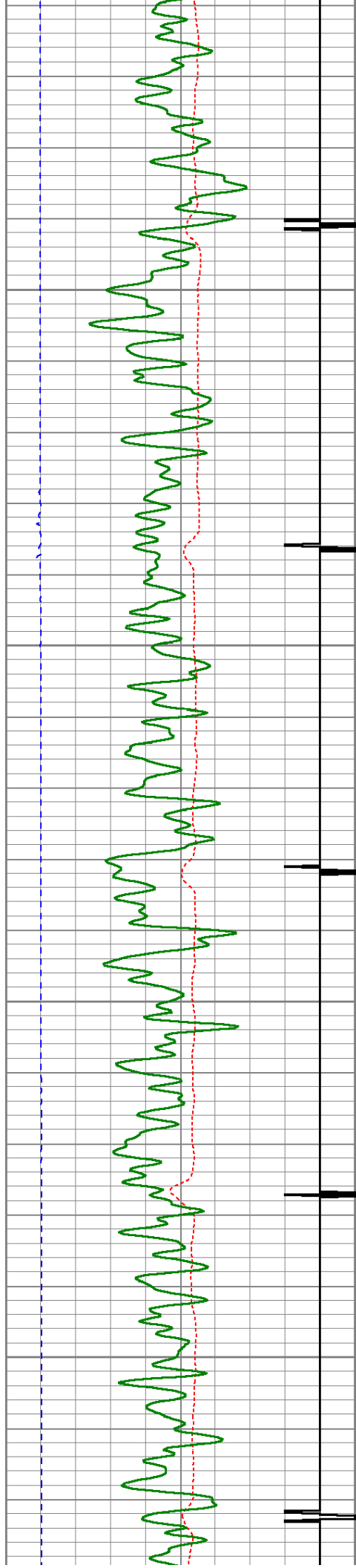
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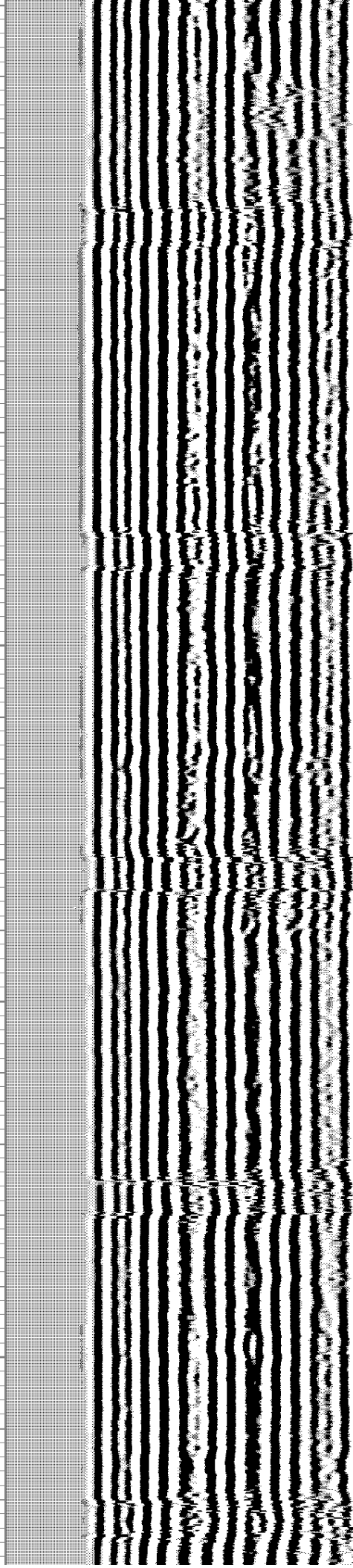
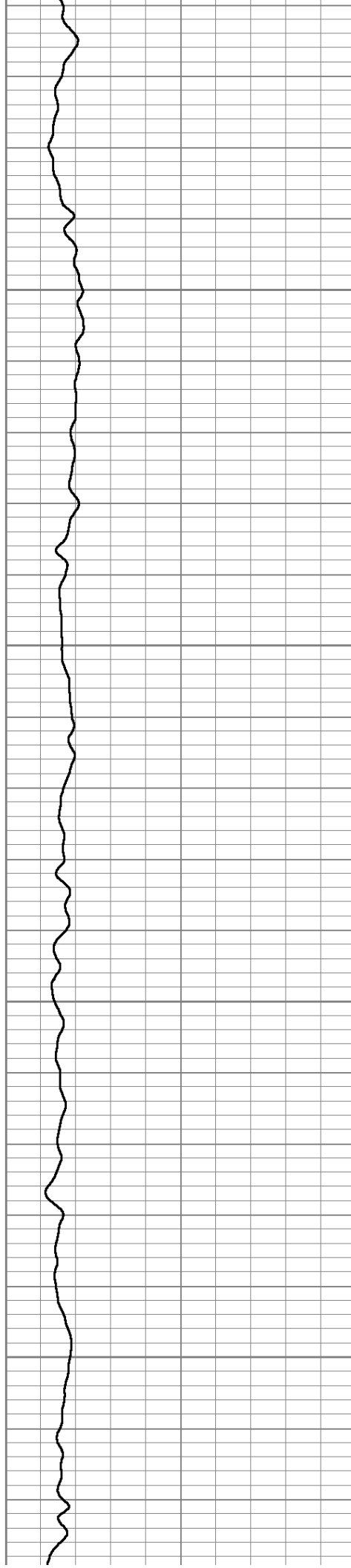


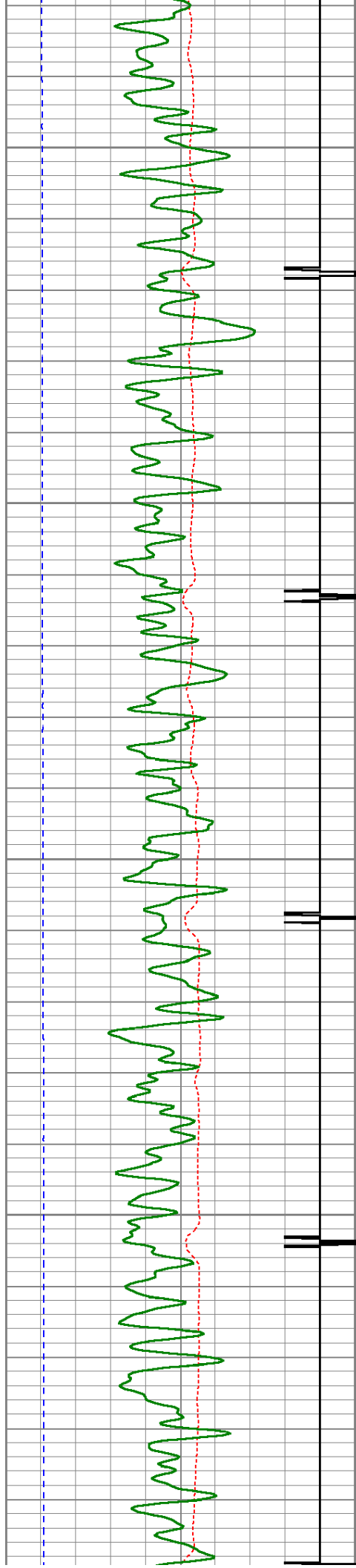
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2300

2350



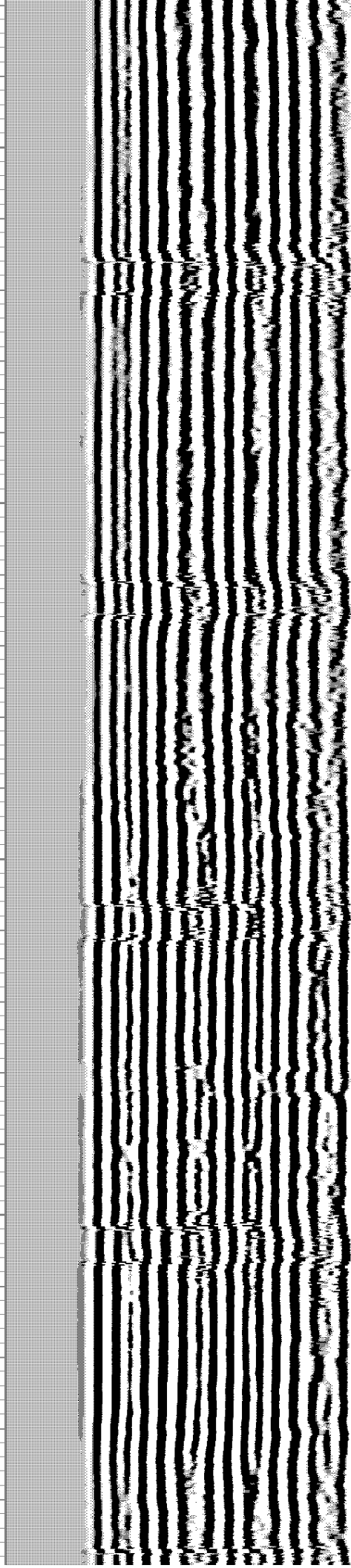
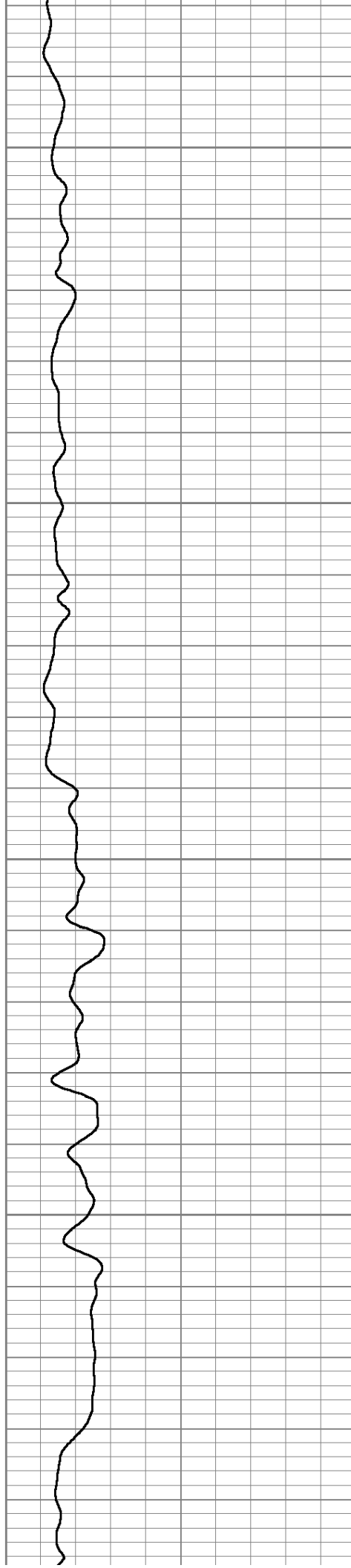


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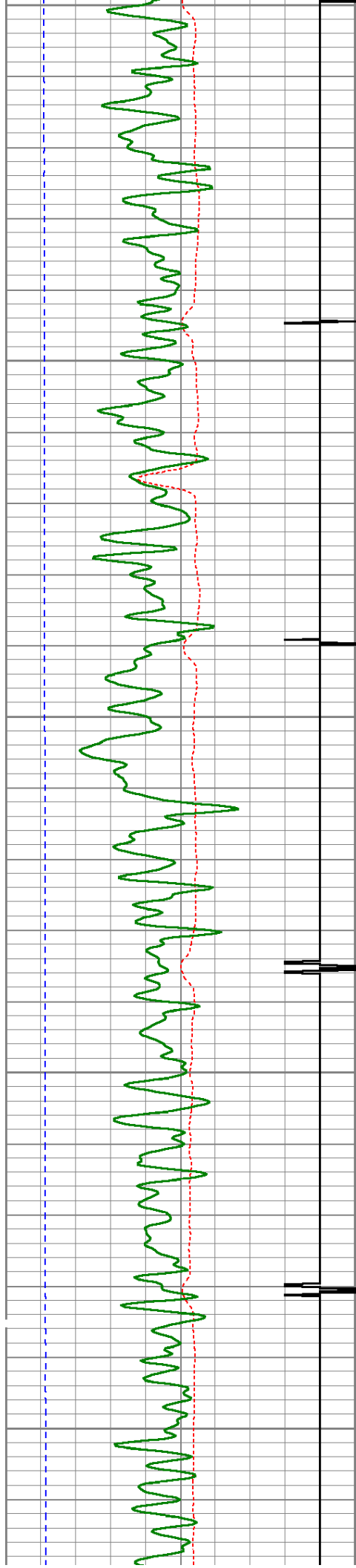
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2550







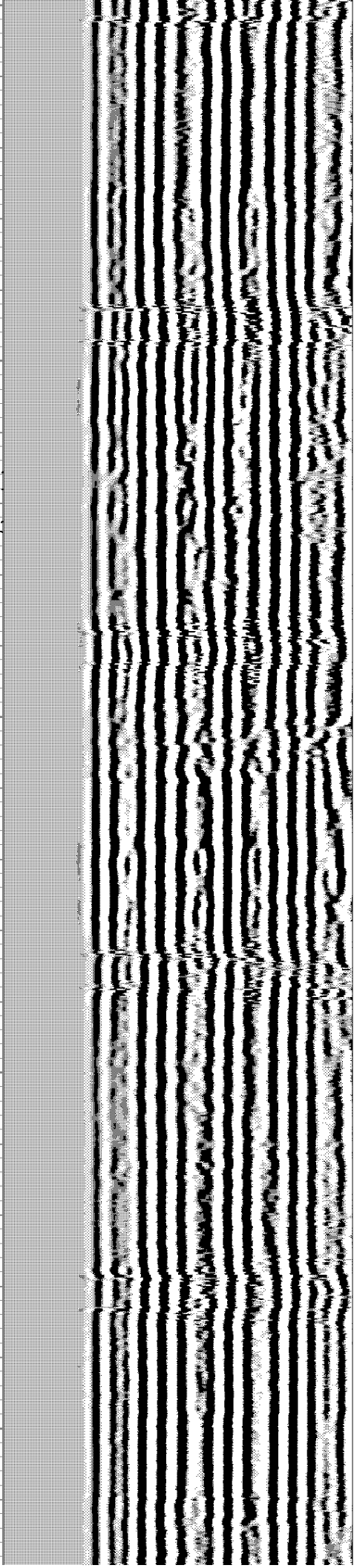
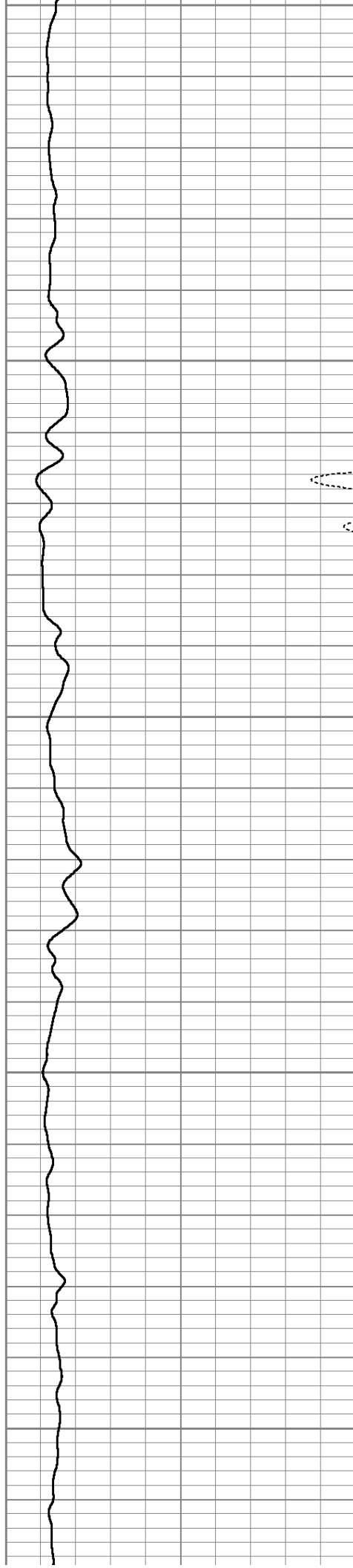
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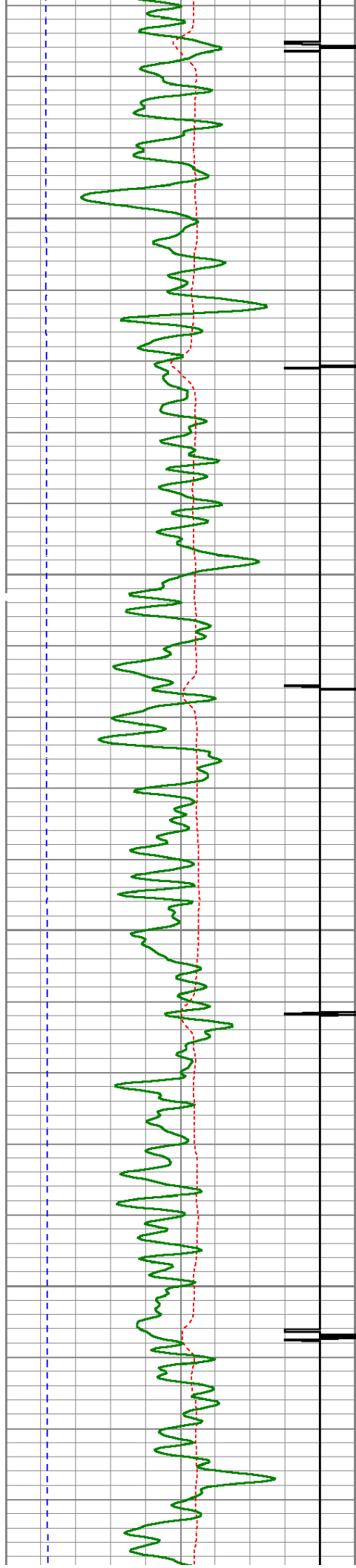
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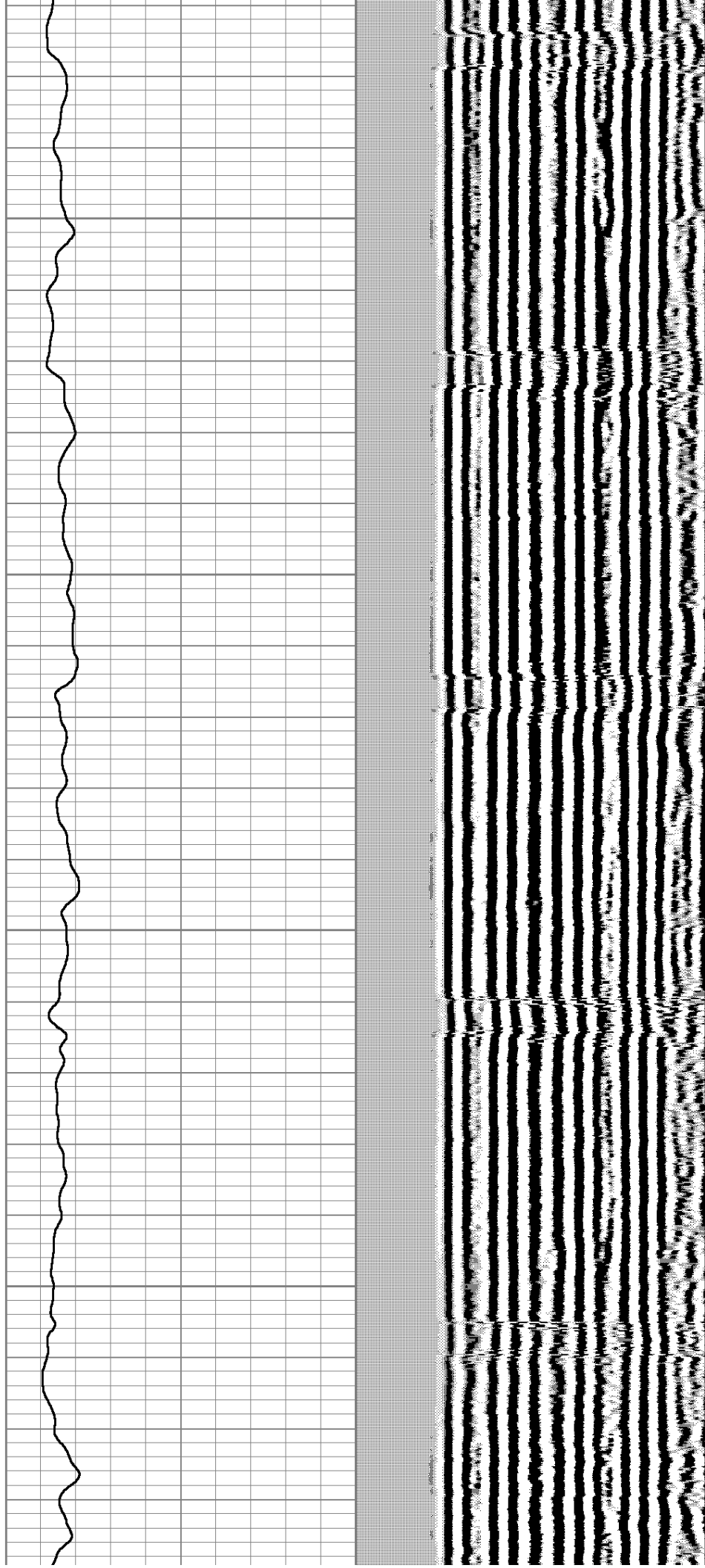


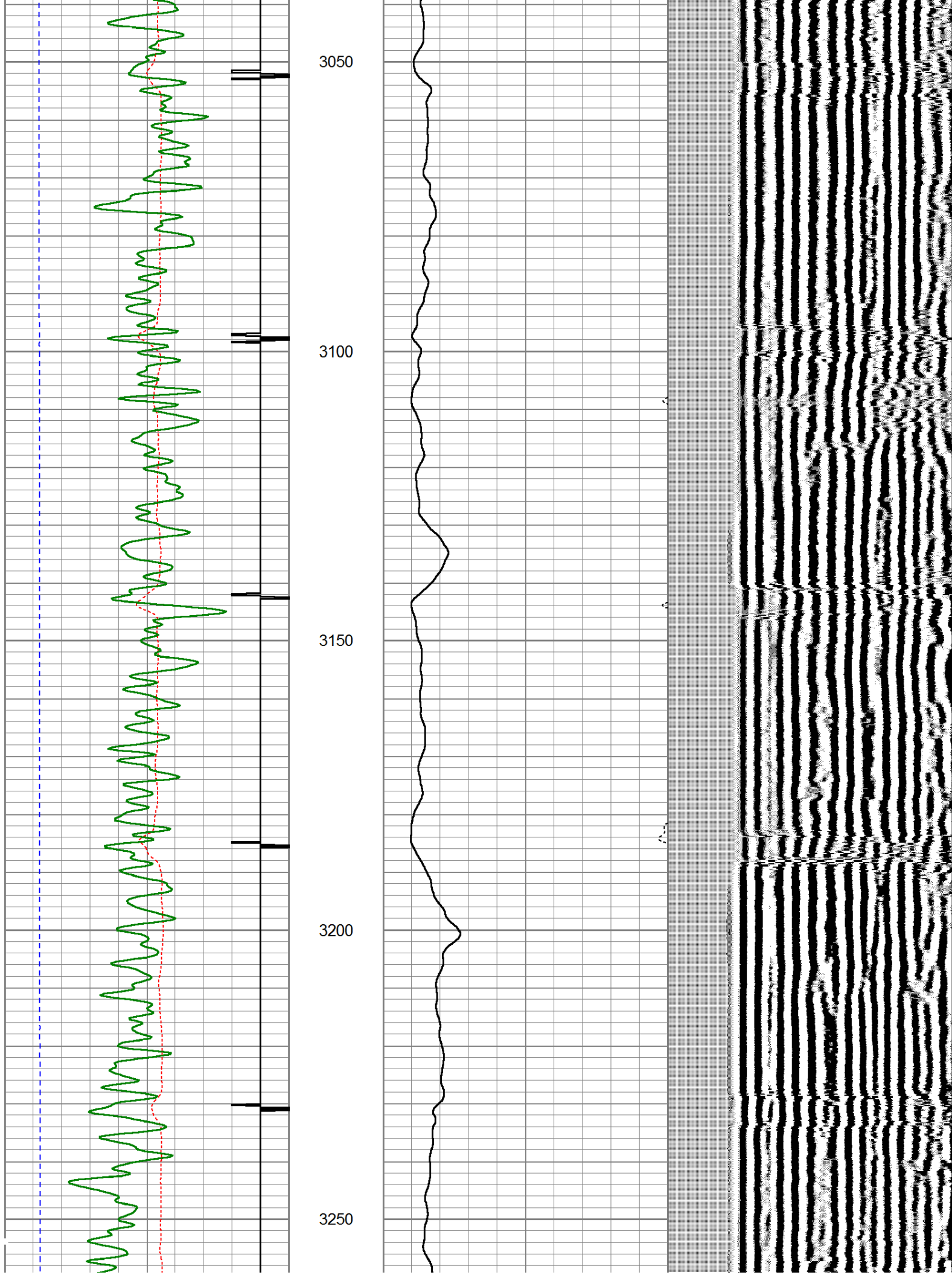
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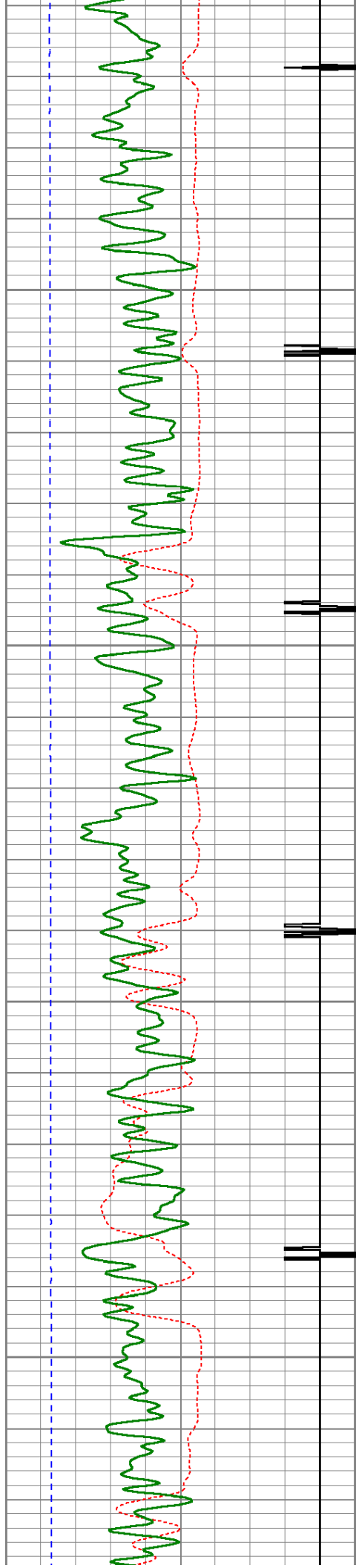
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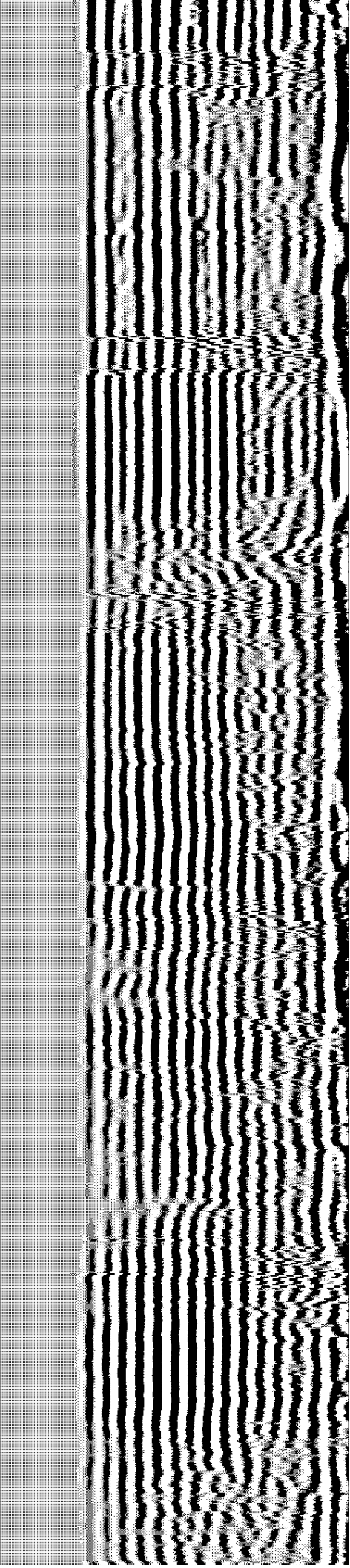
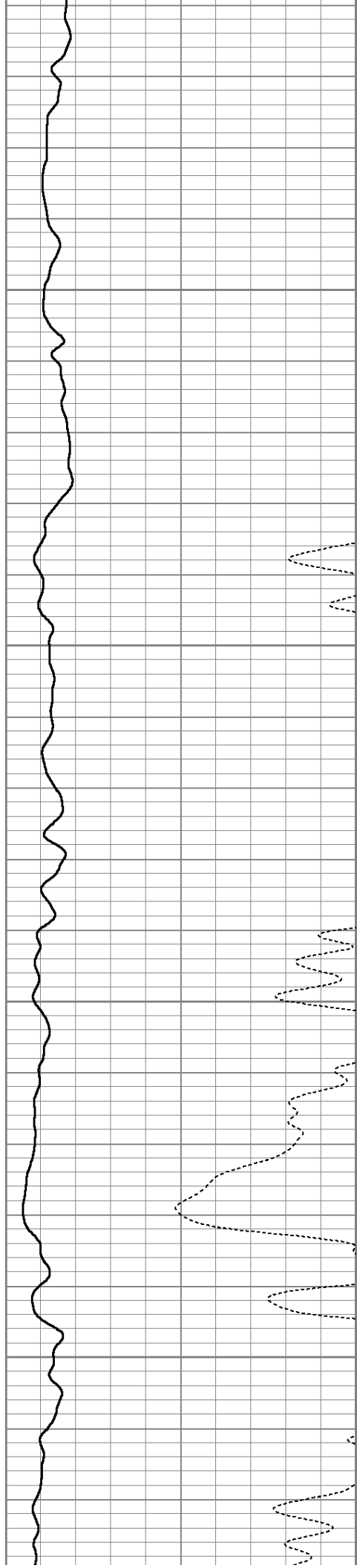


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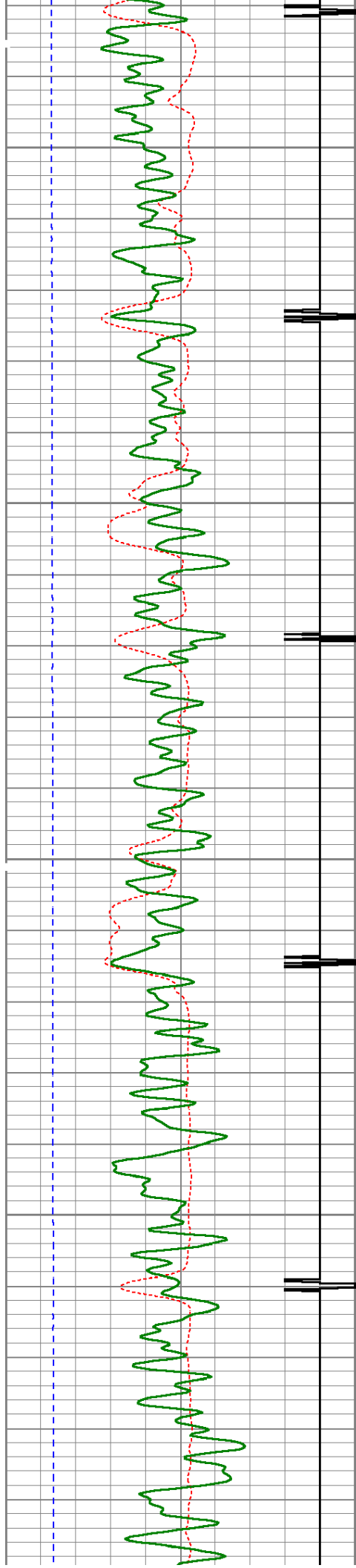
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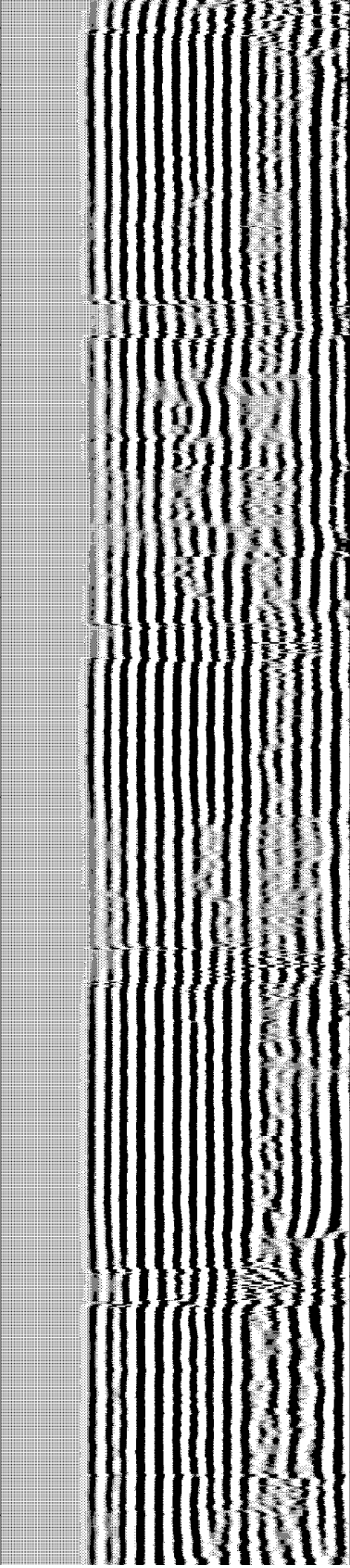
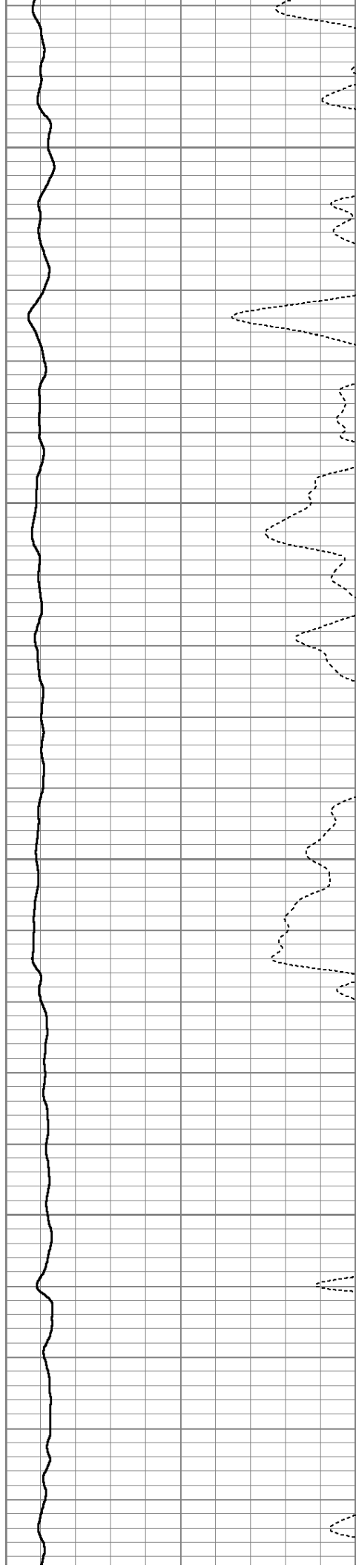


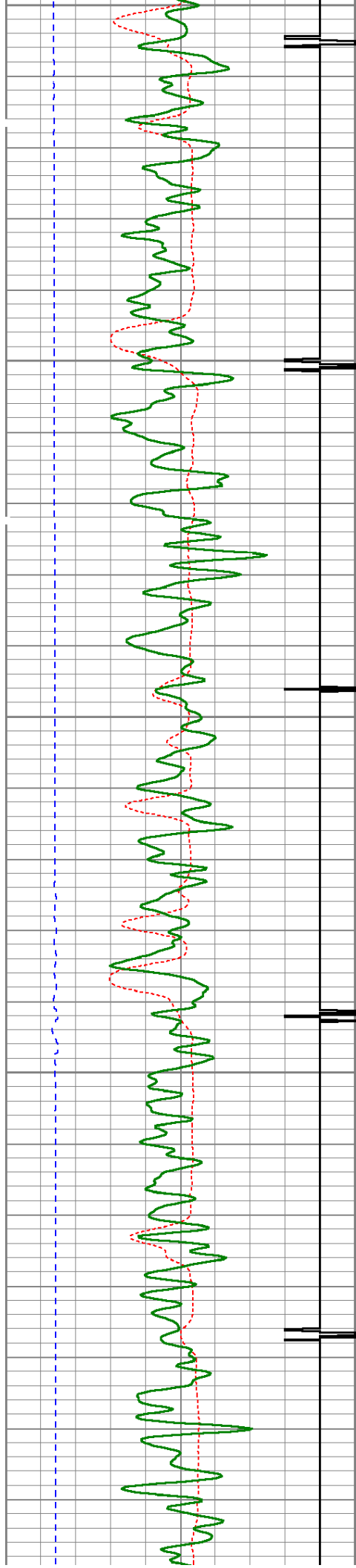
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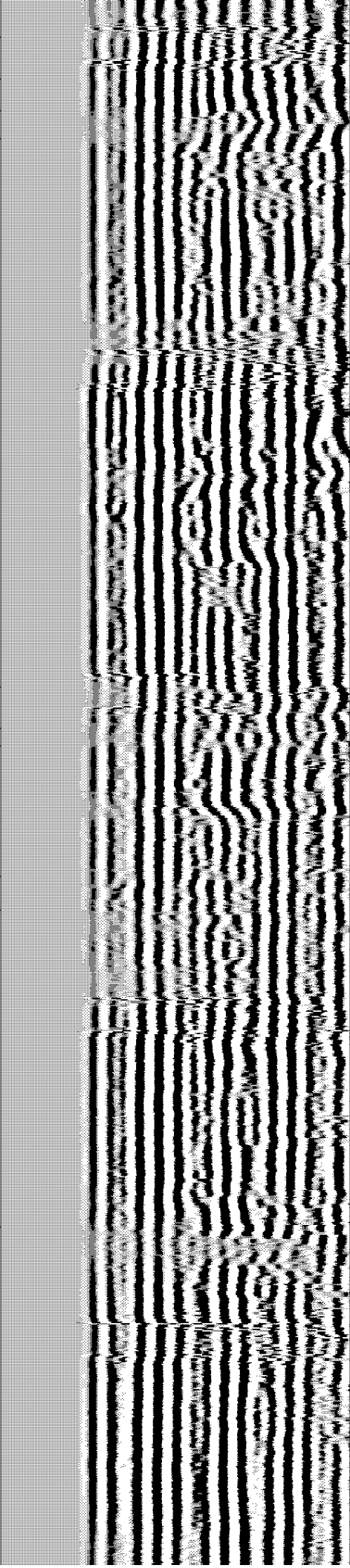
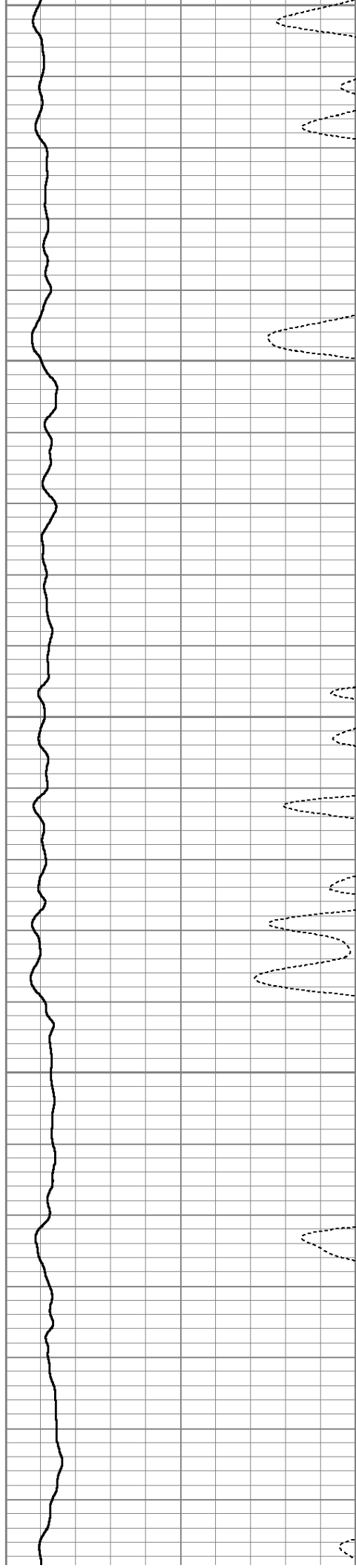
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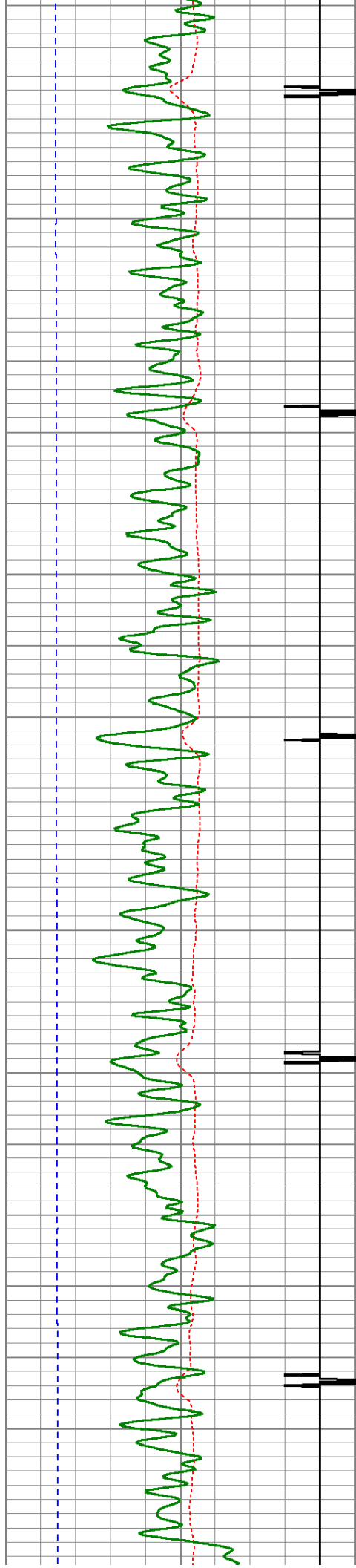
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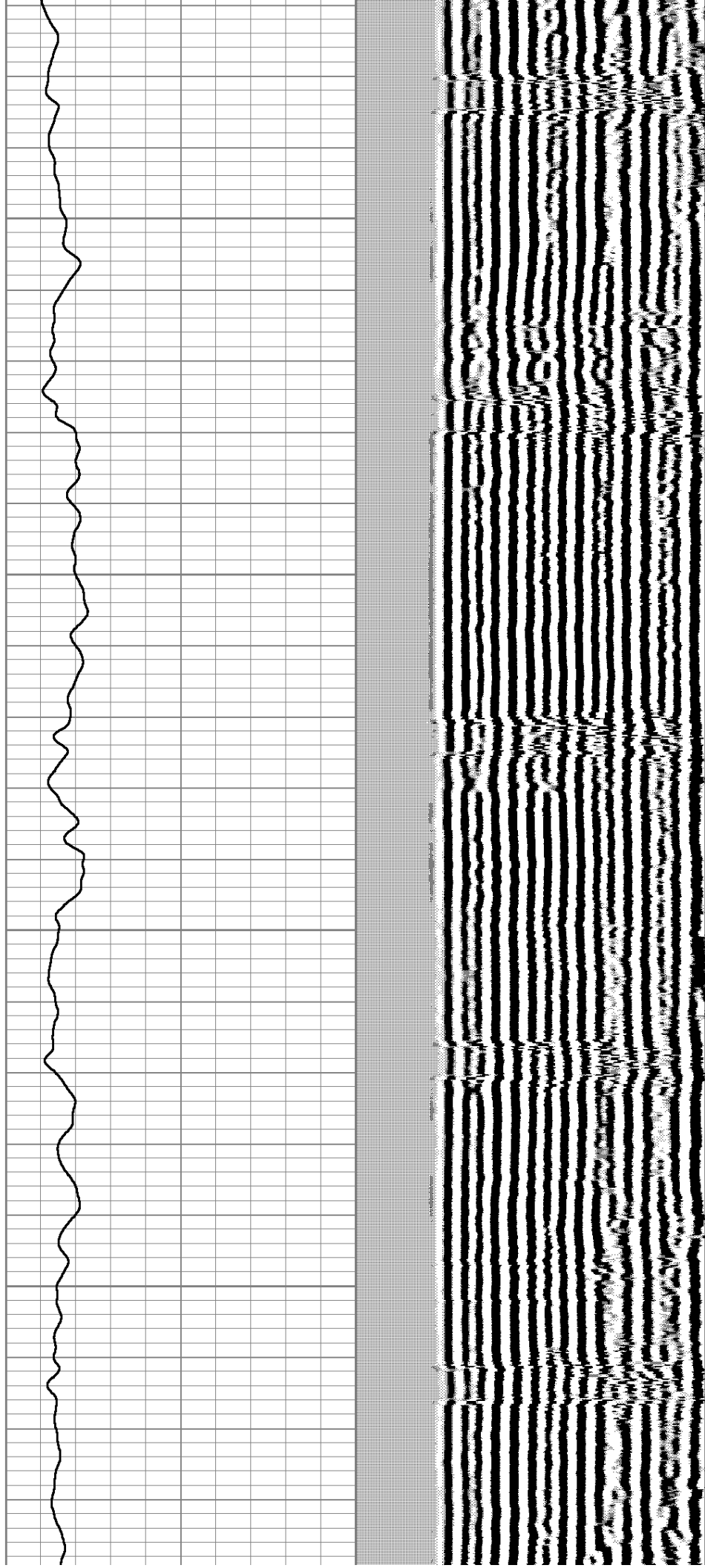


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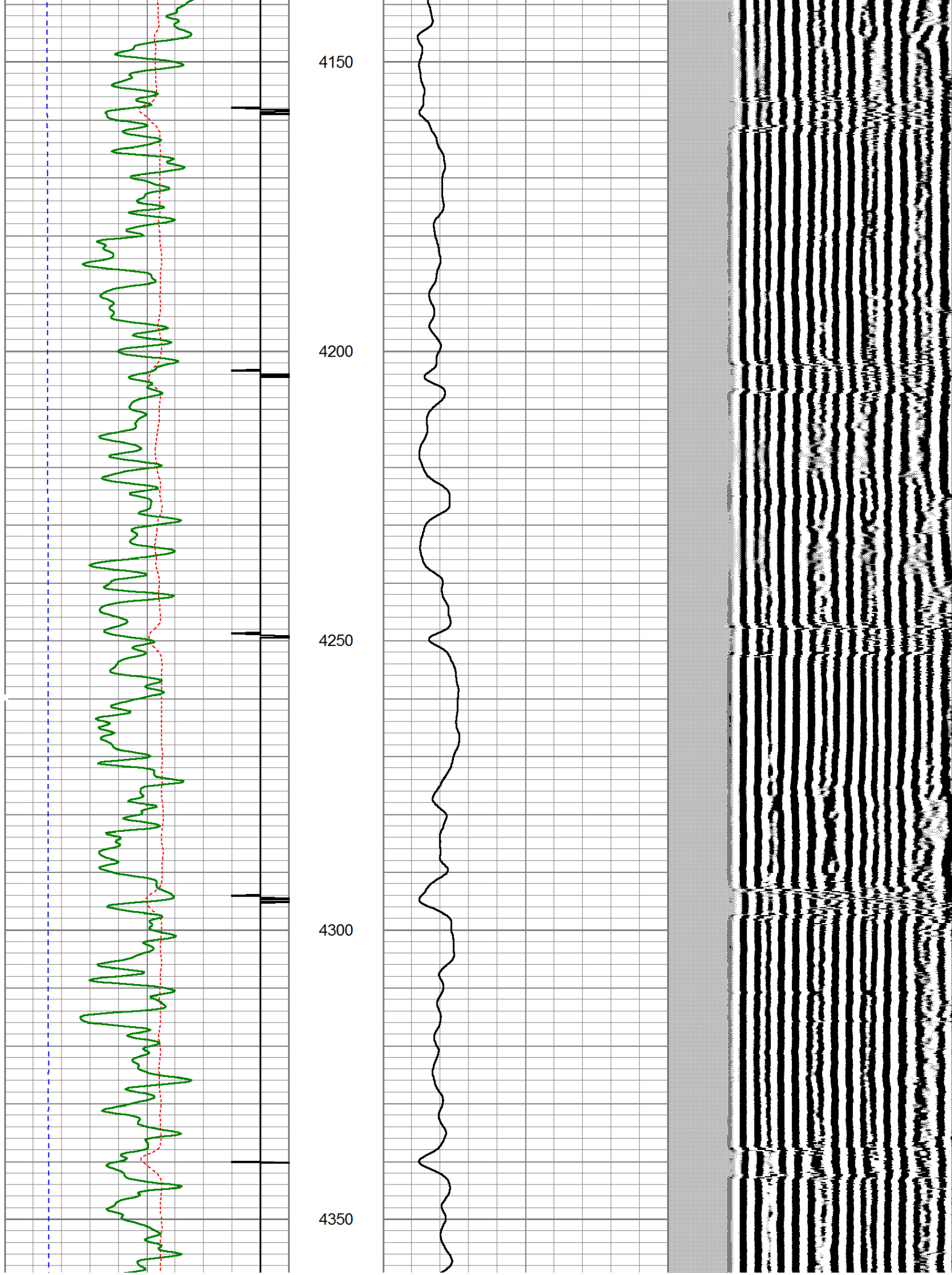
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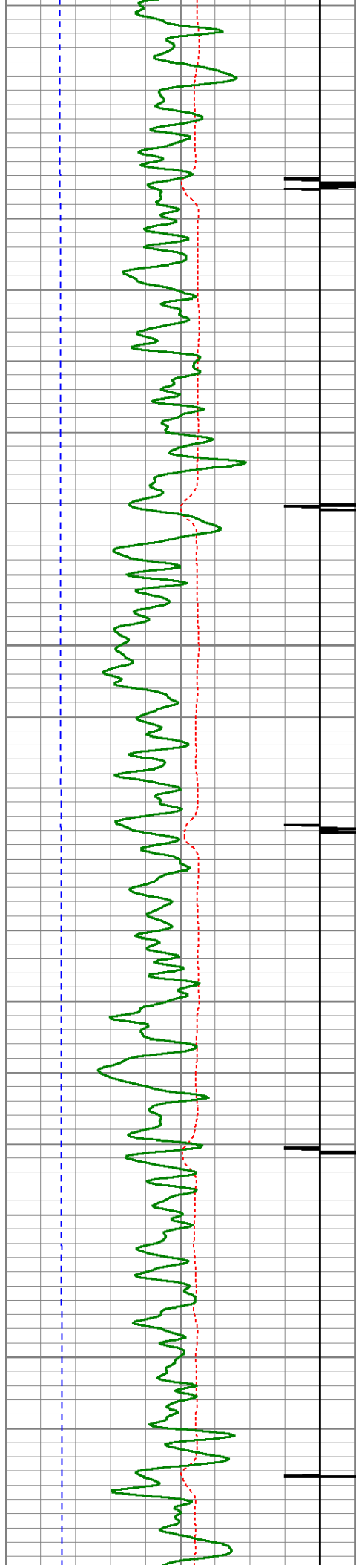
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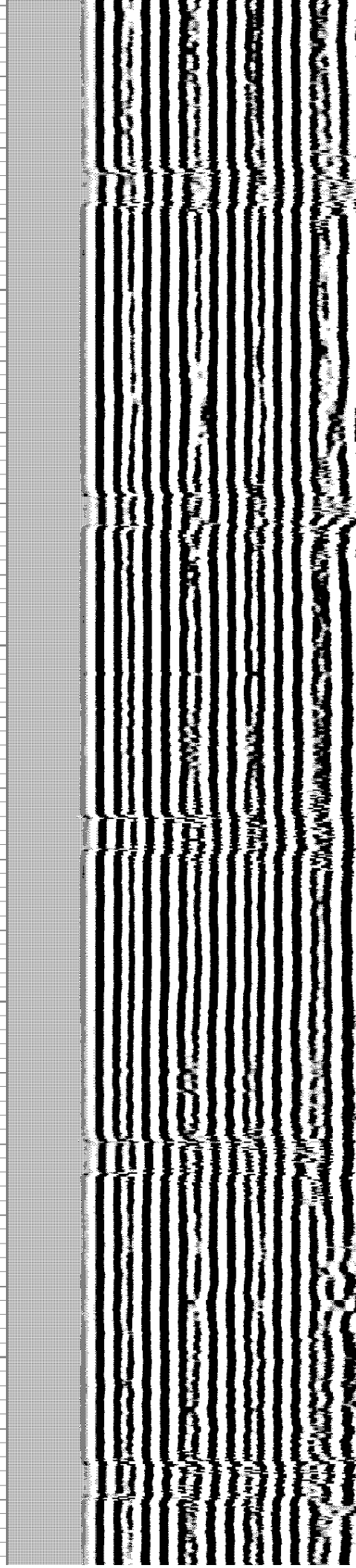
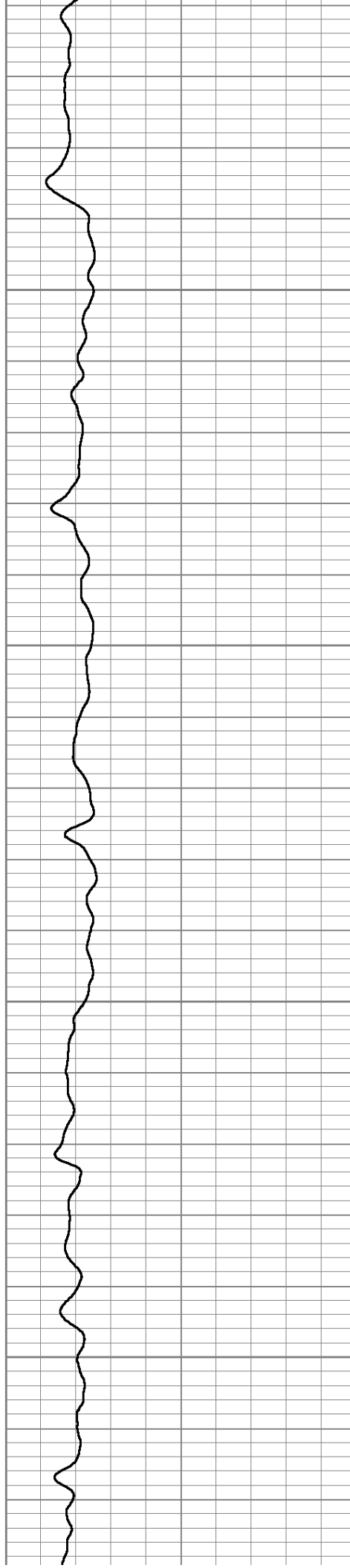


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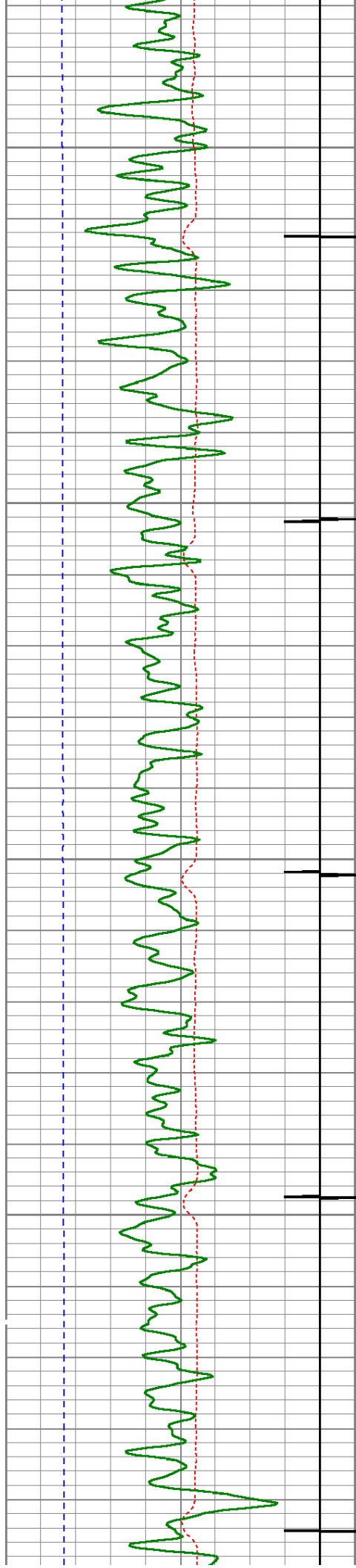
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4550





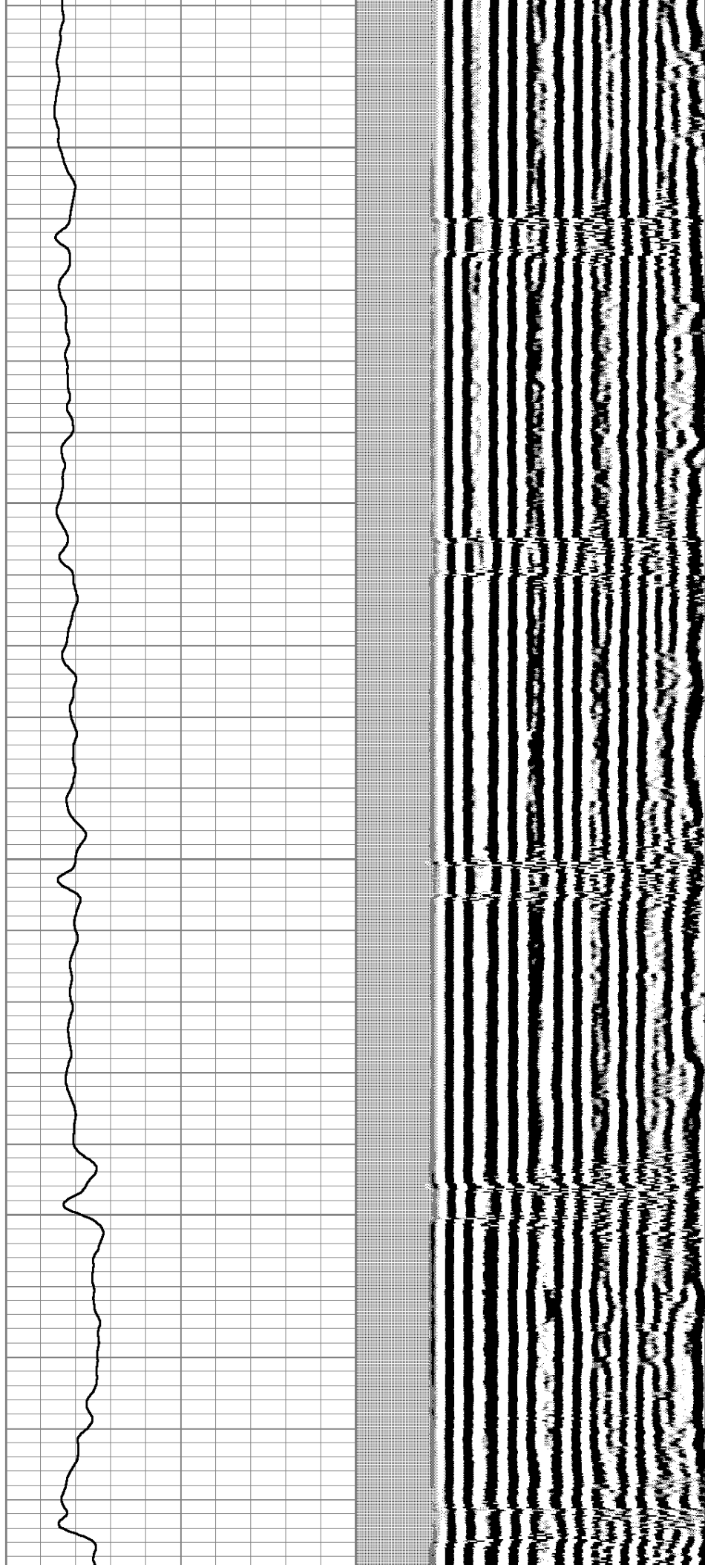


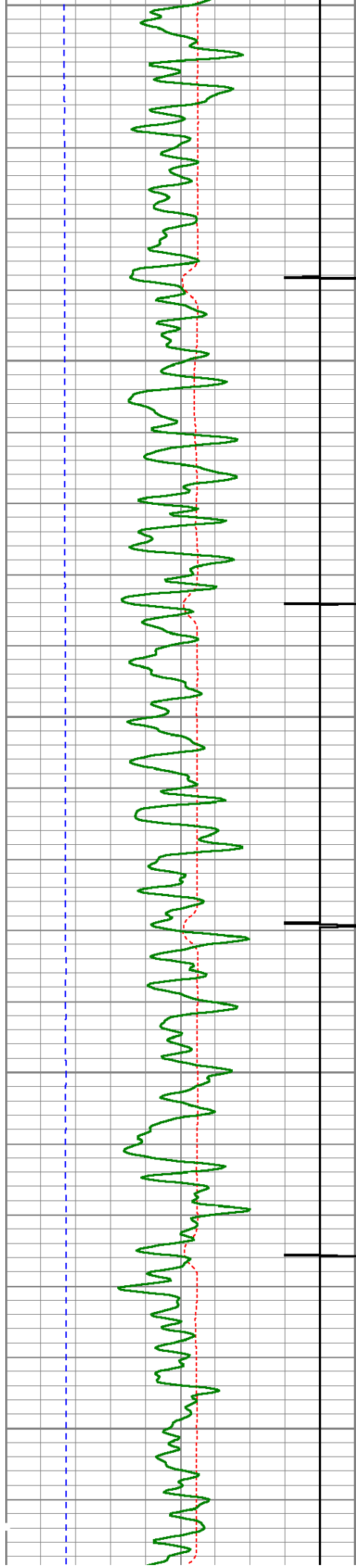
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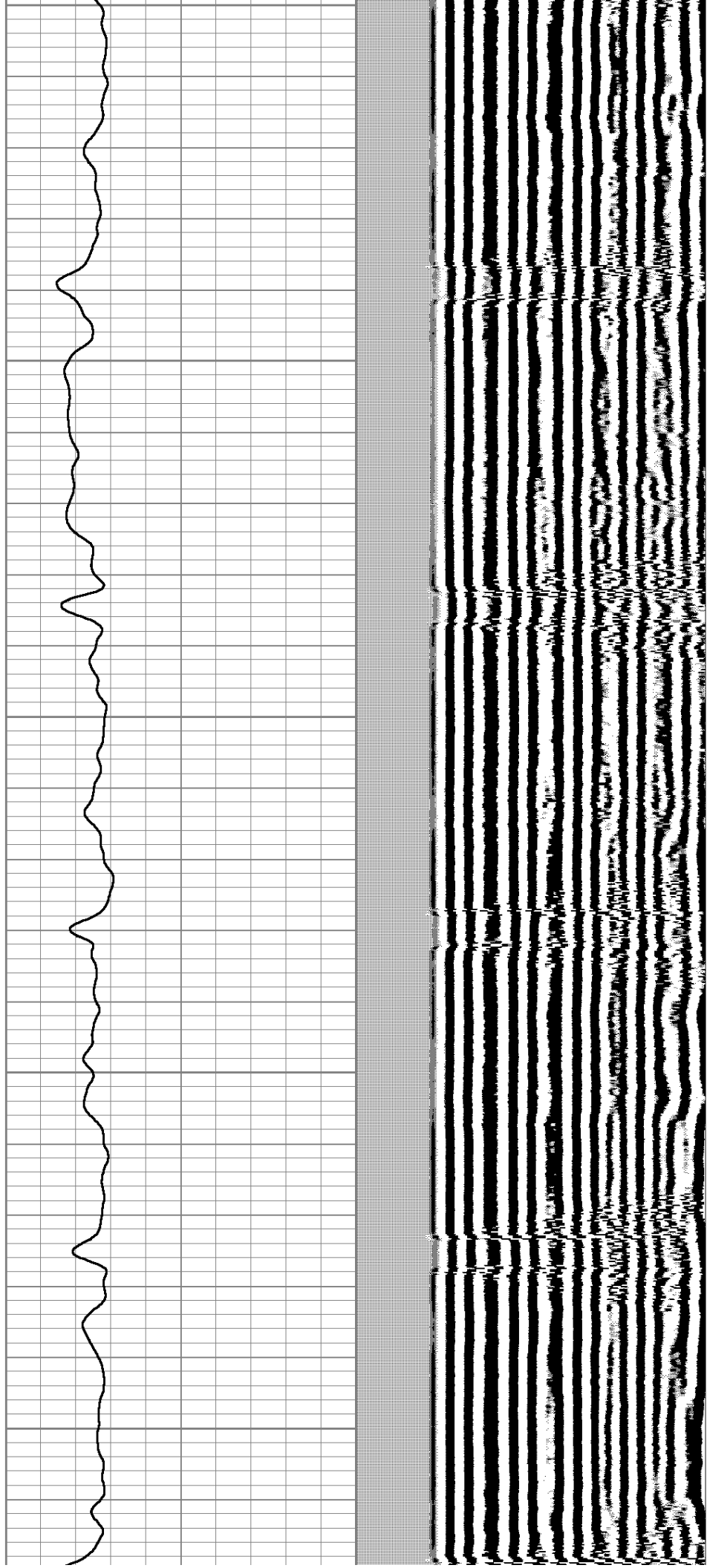
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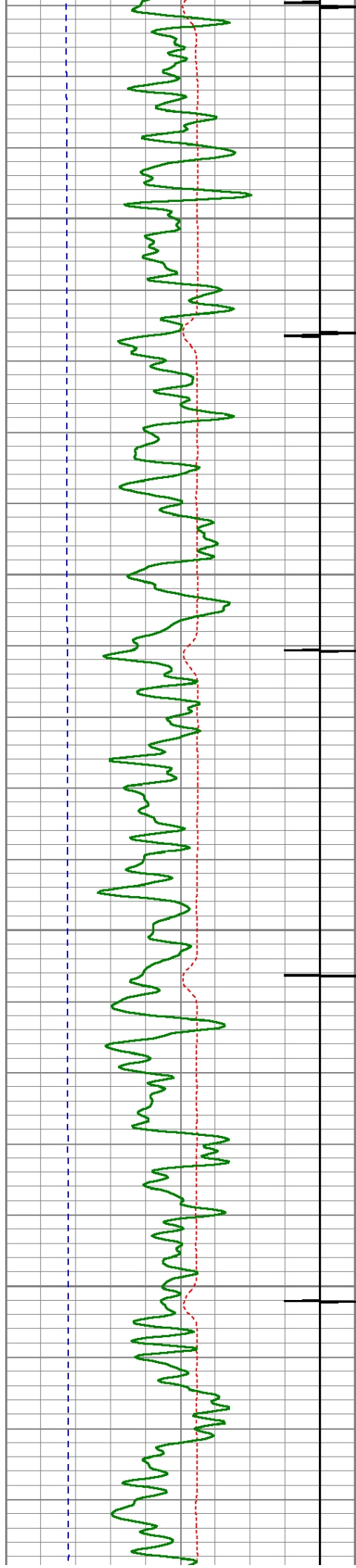




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4950  
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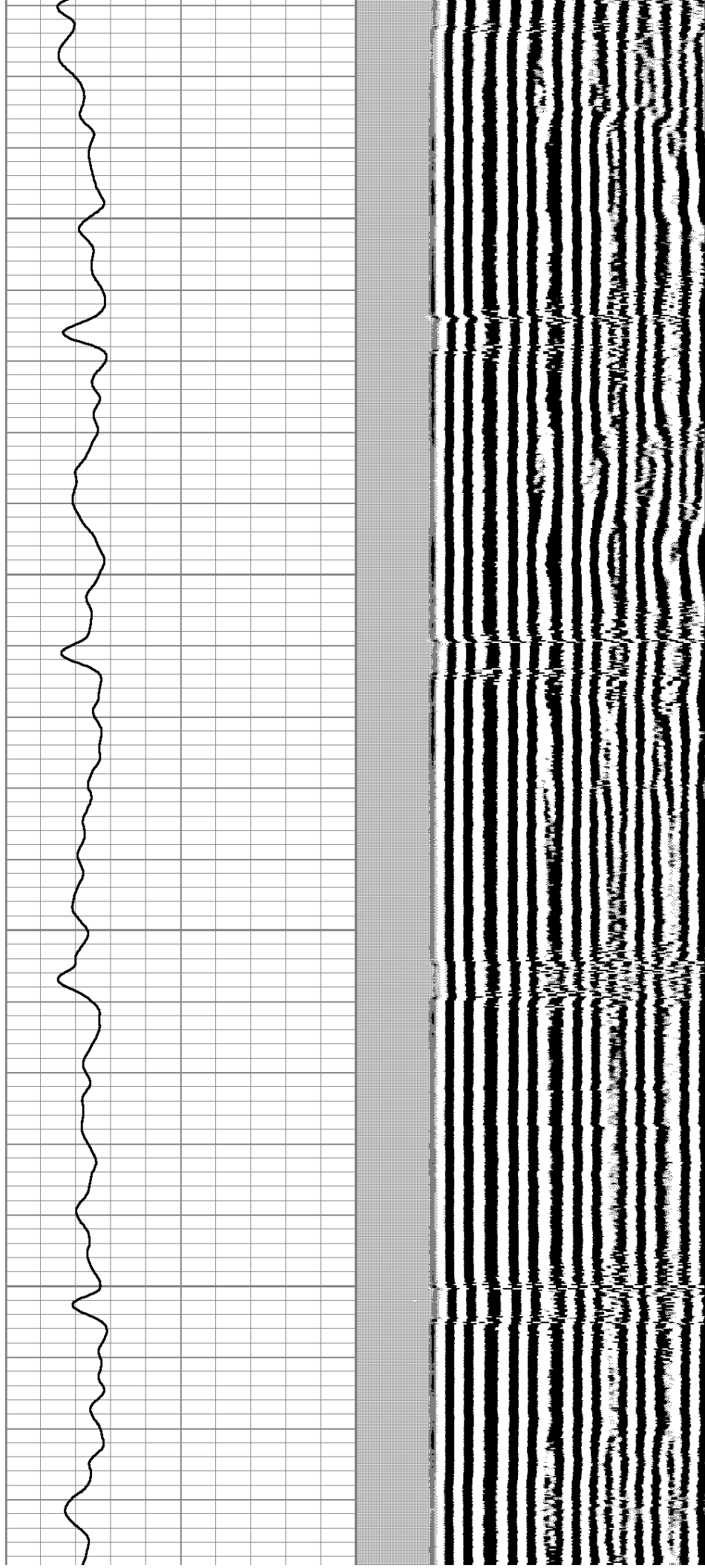


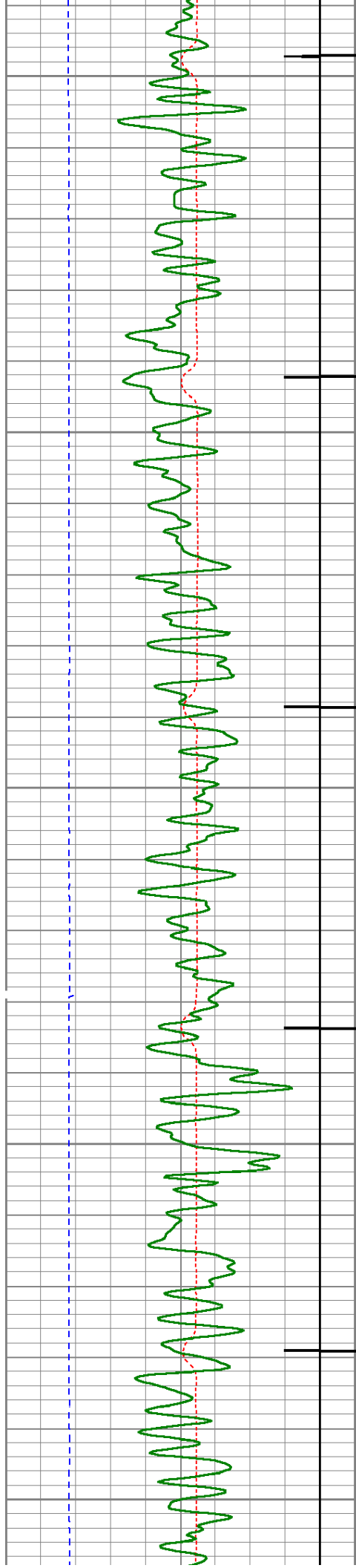
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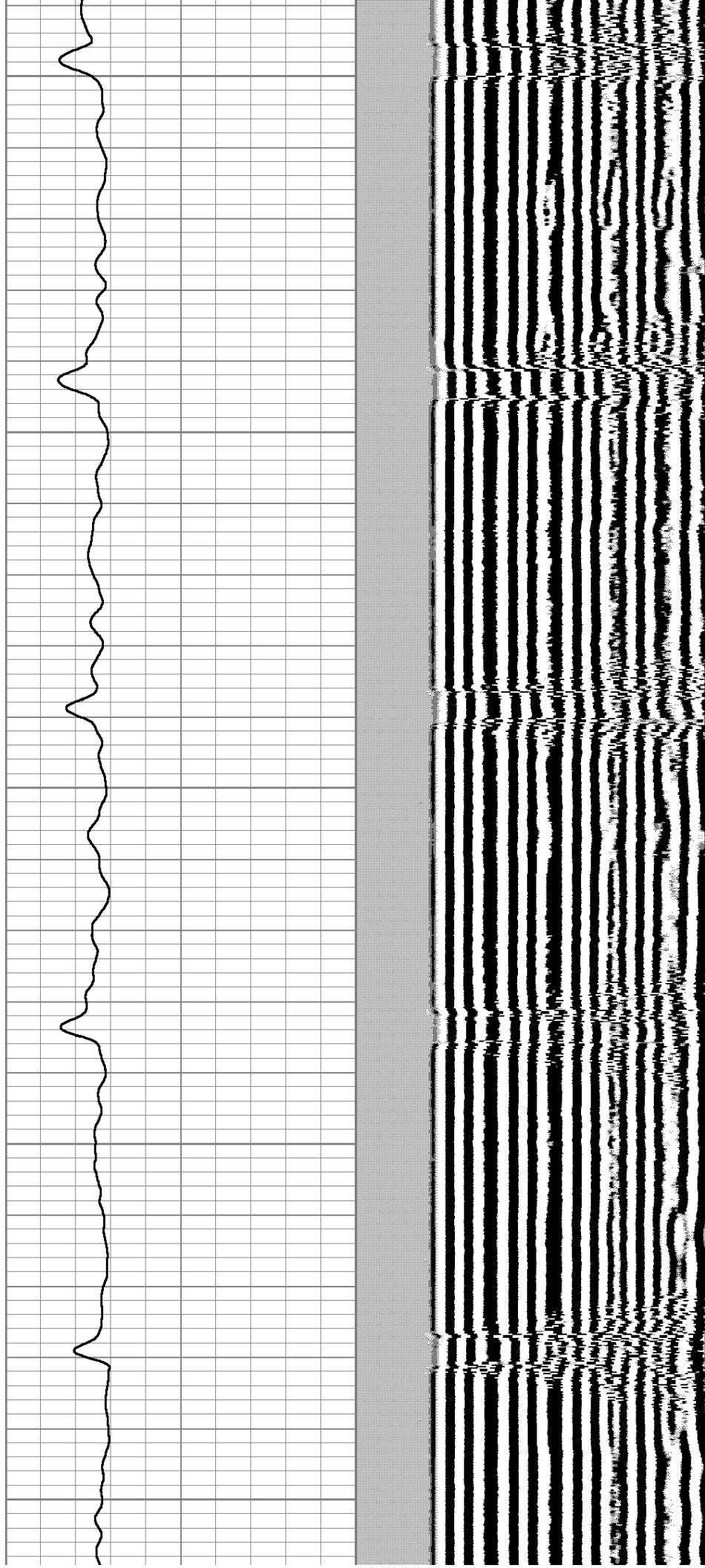
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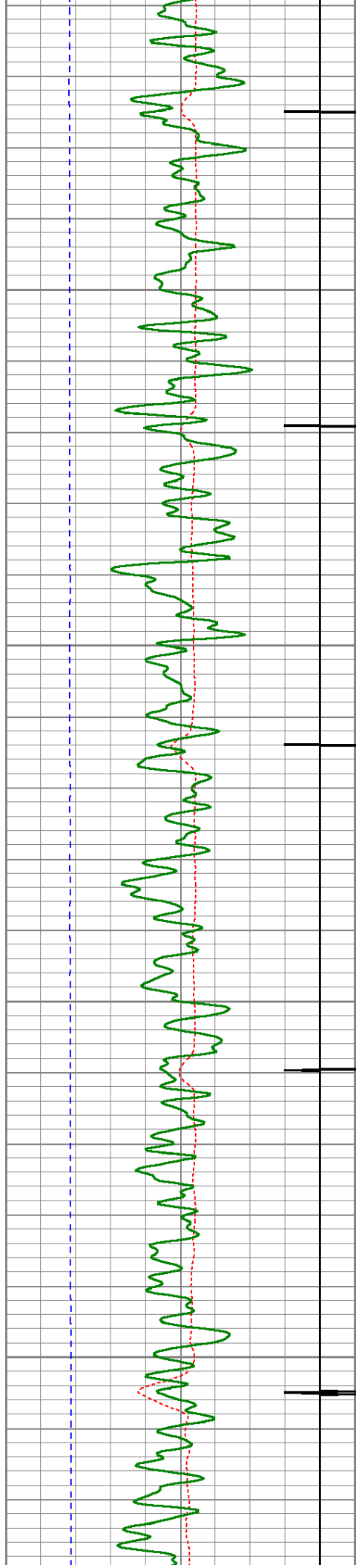
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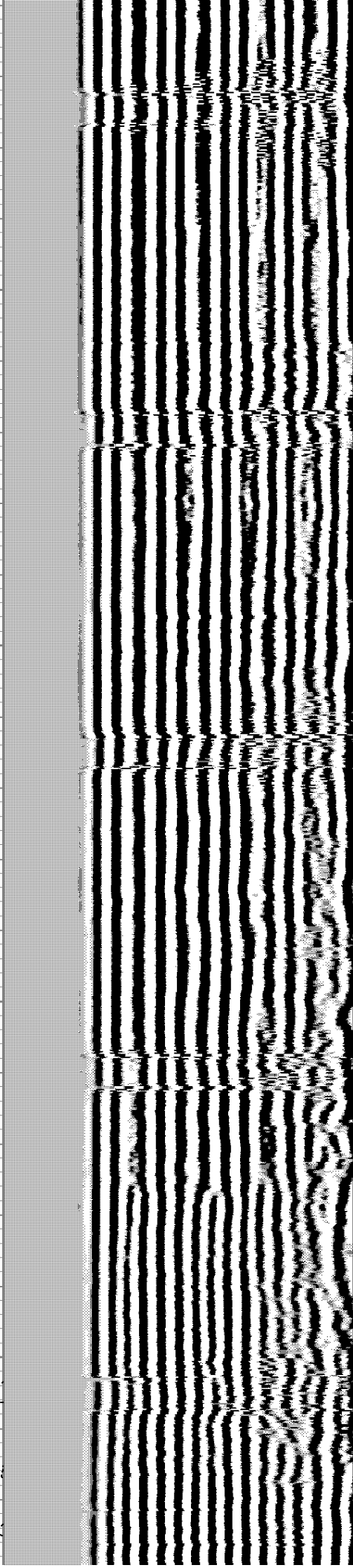
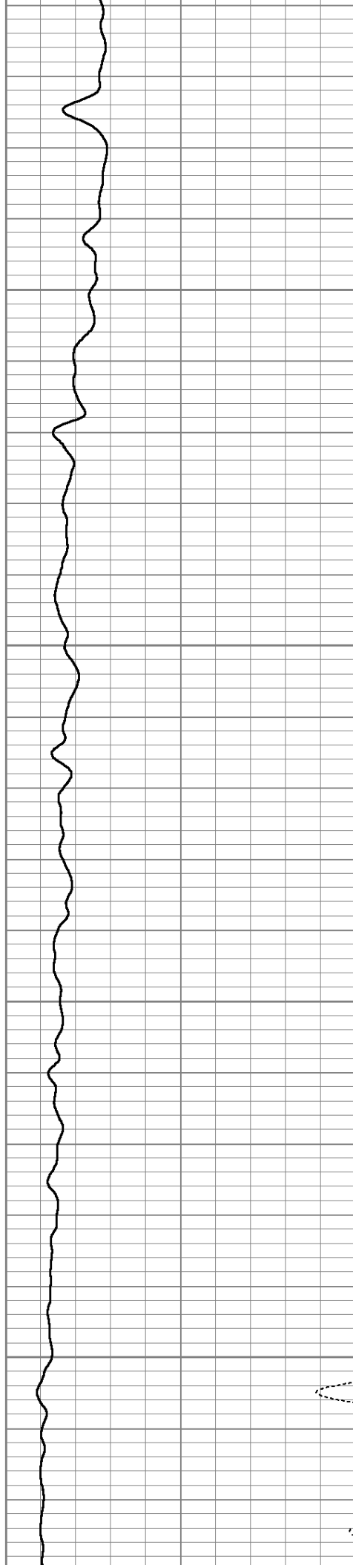


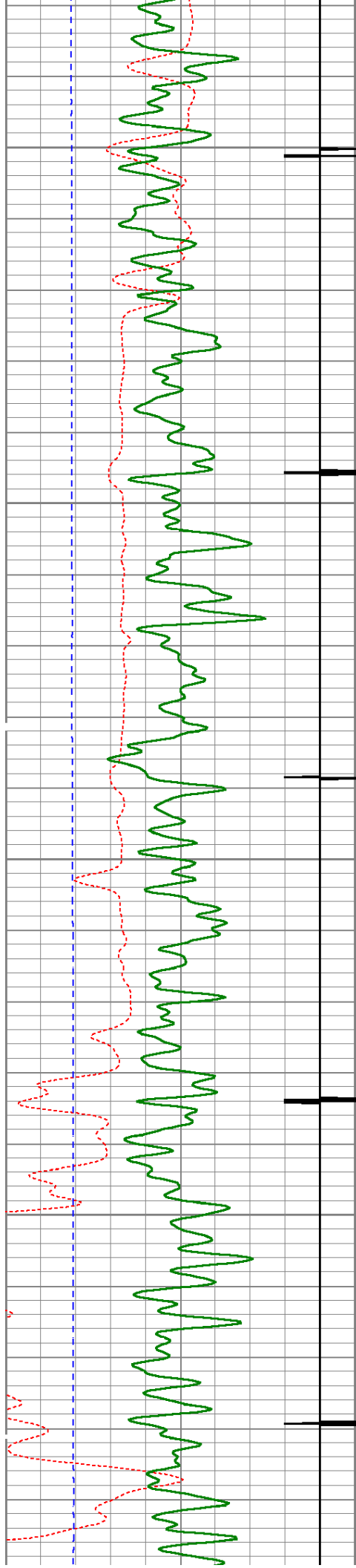
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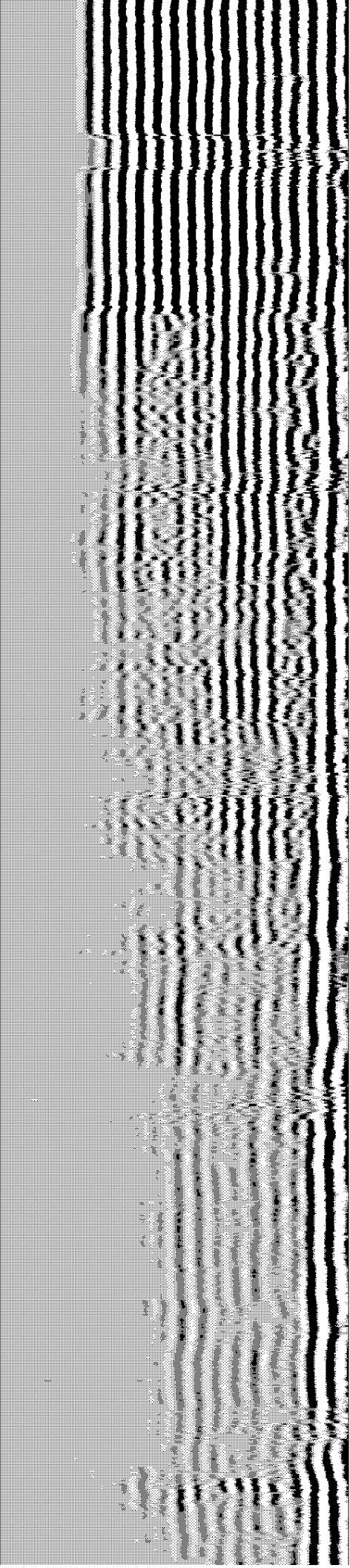
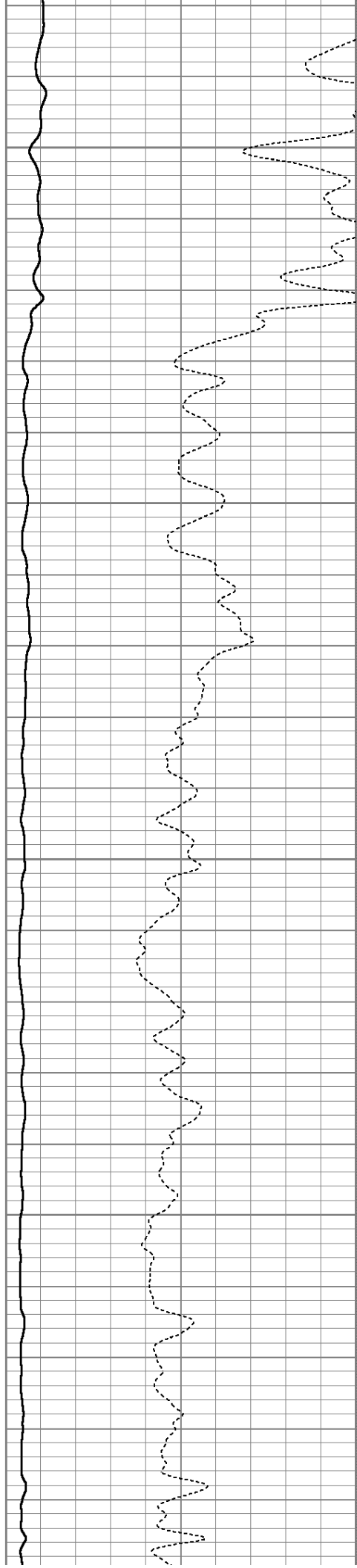


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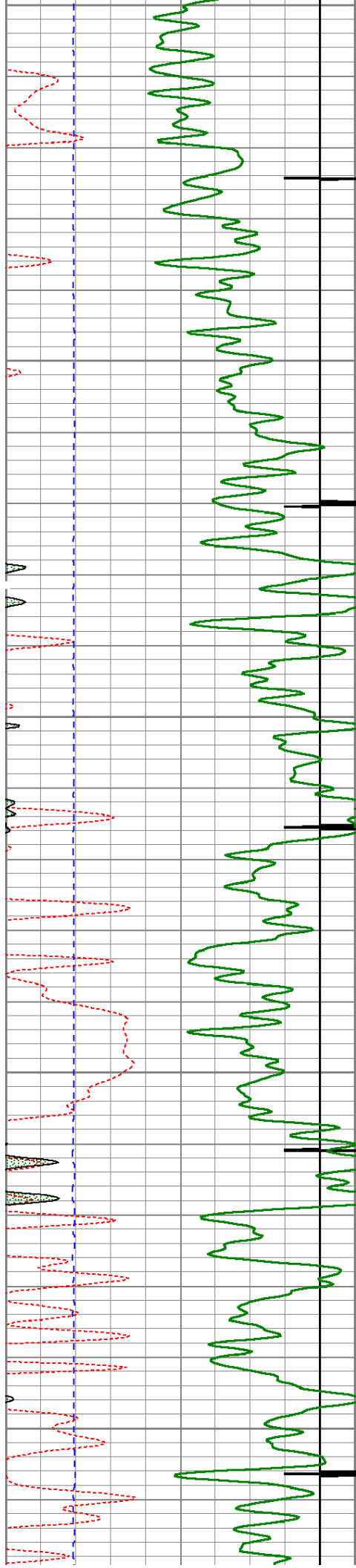
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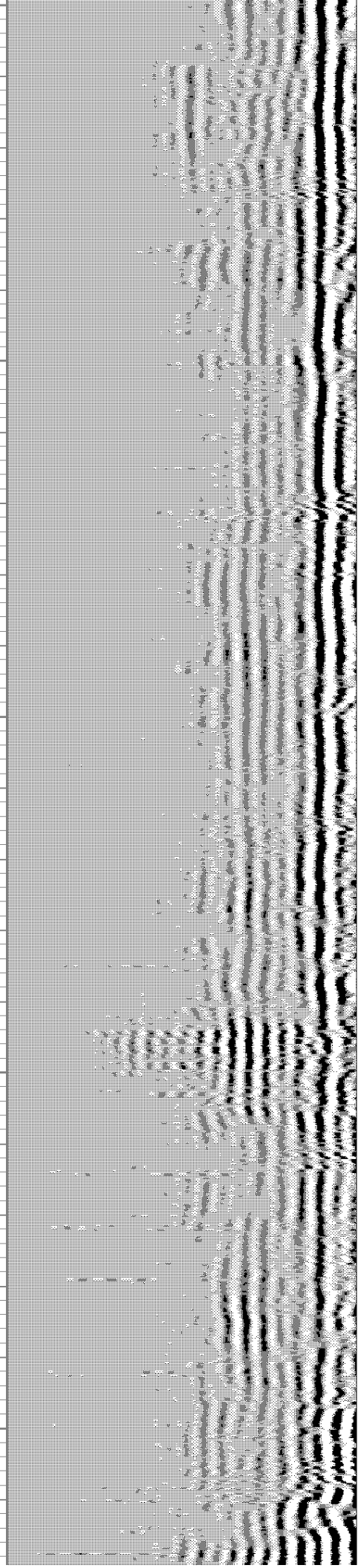
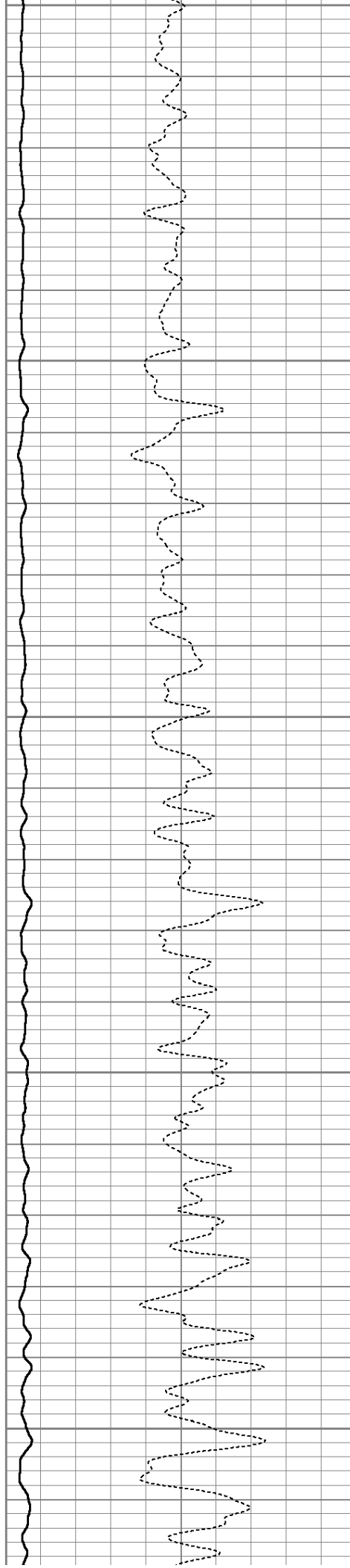
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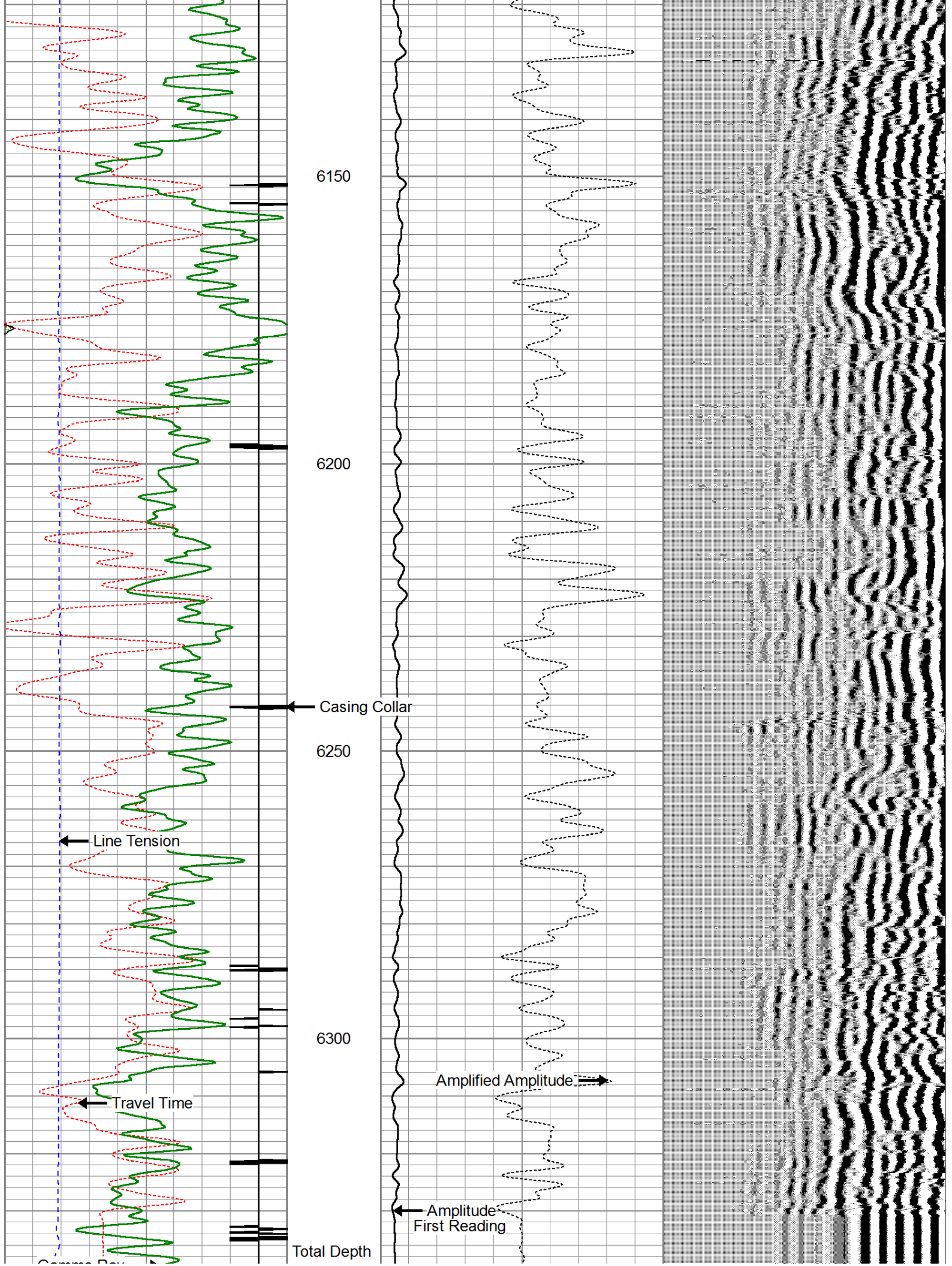




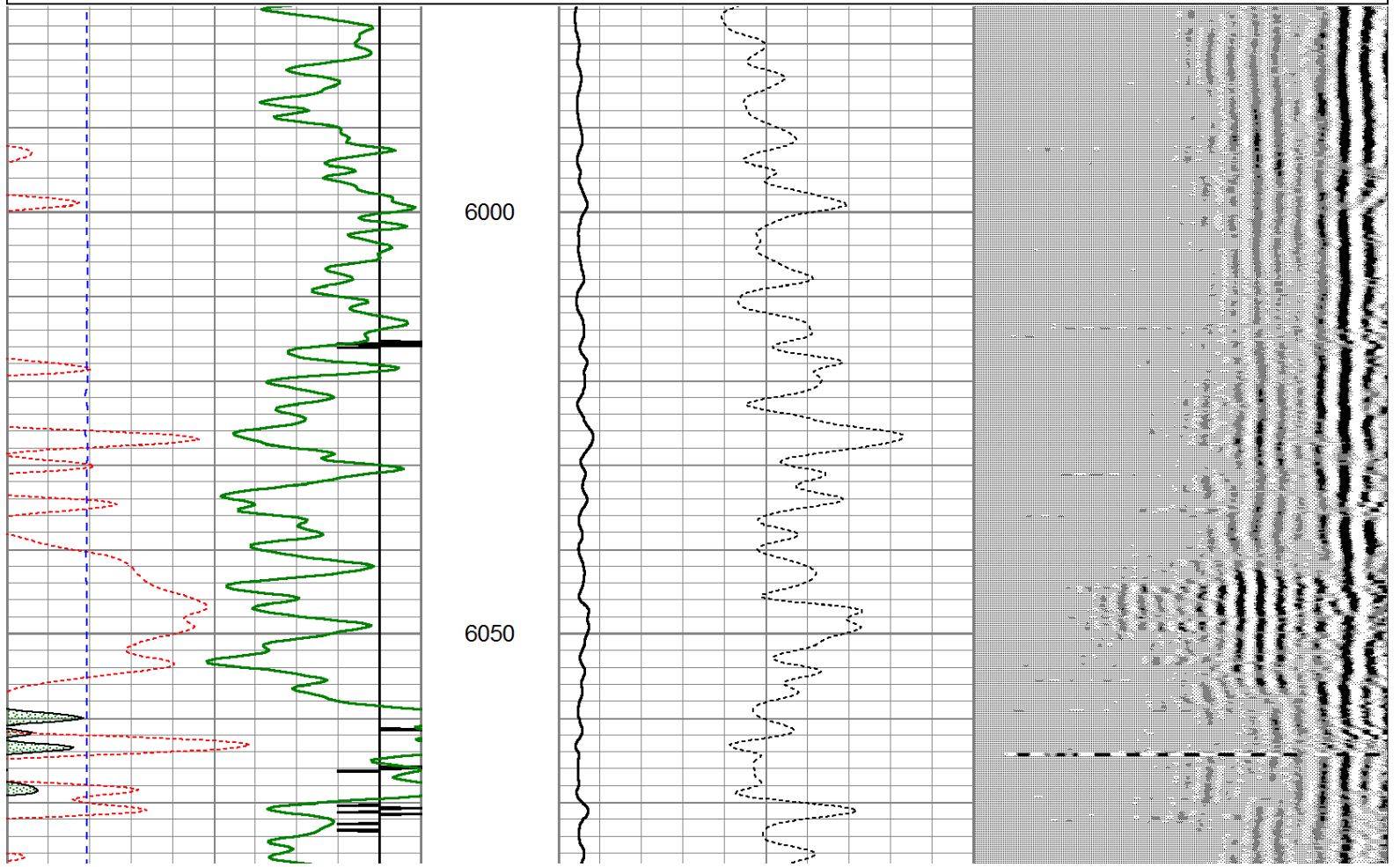
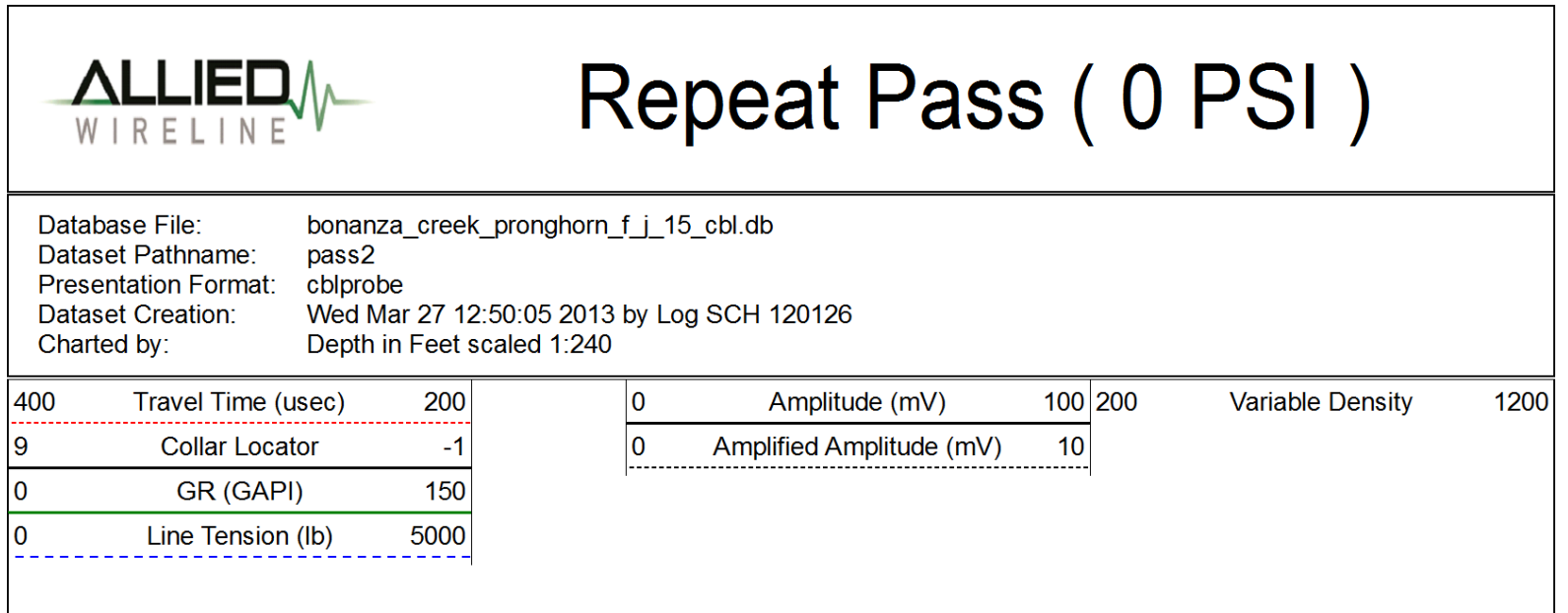
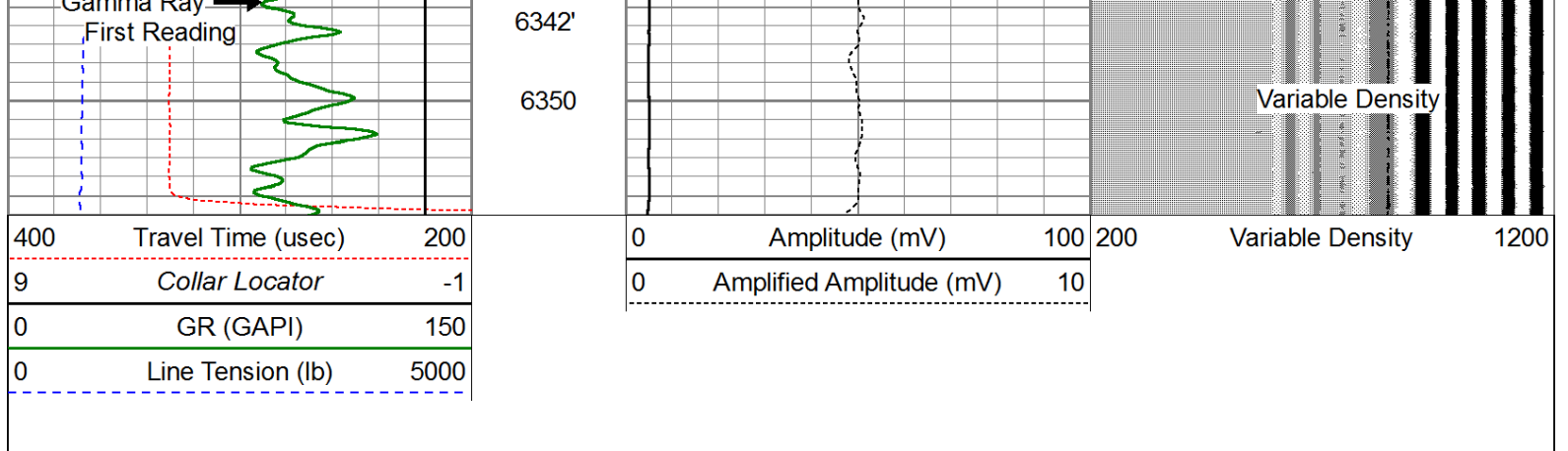
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6050  
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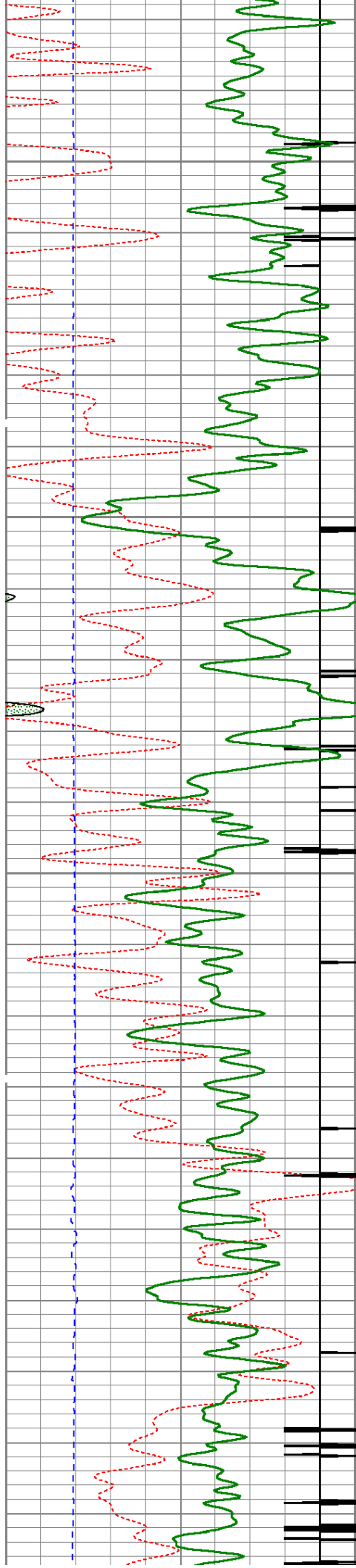










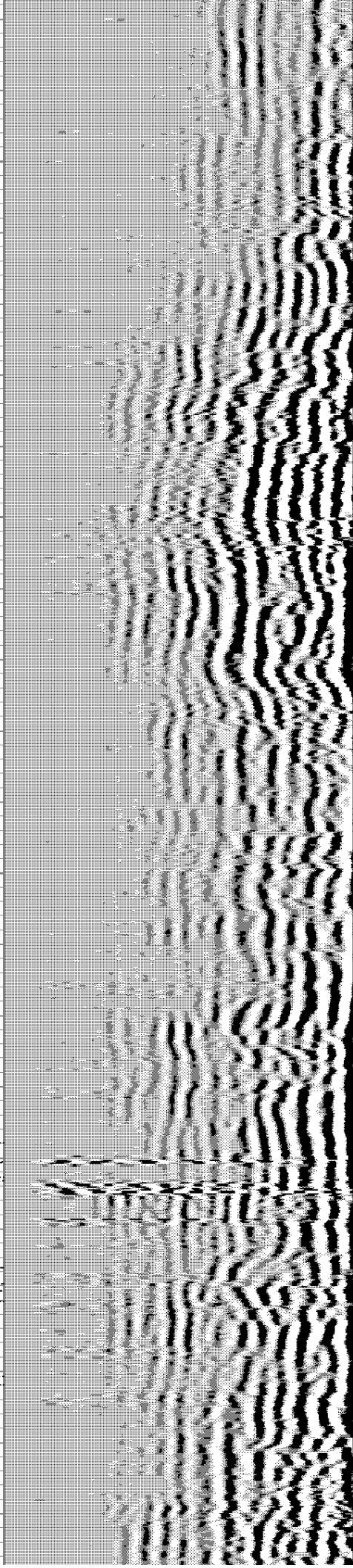
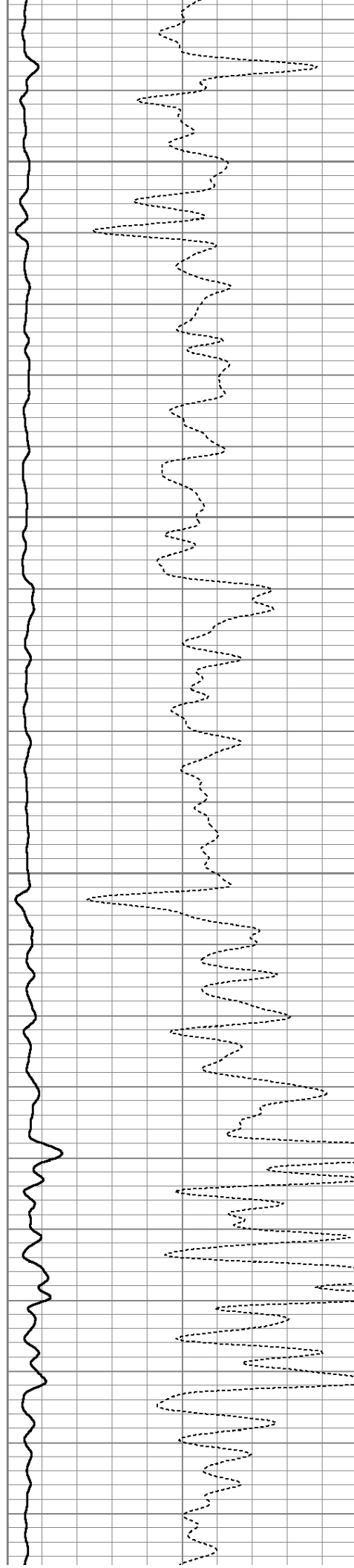


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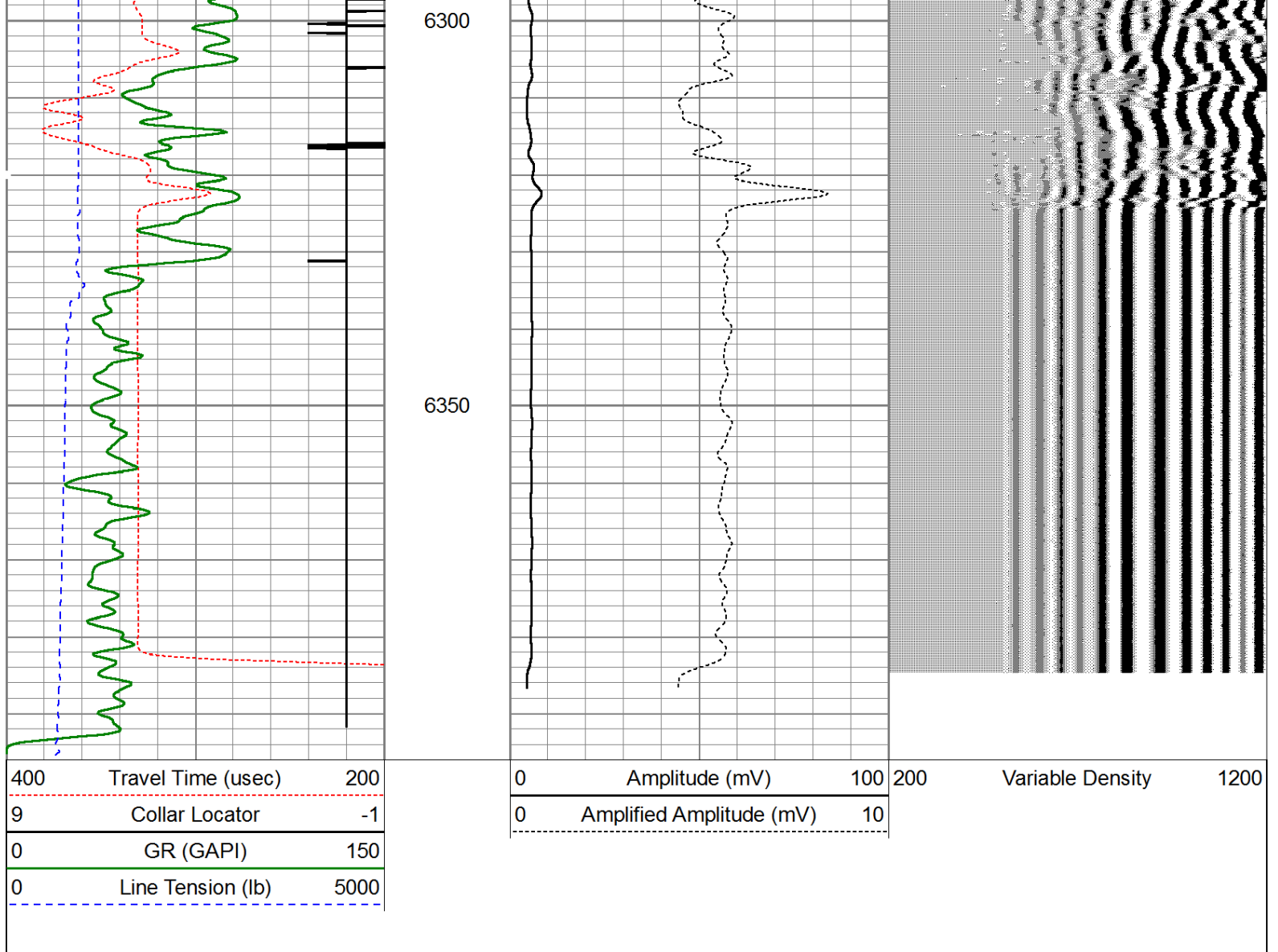
6150

6200

6250







Calibration Report			
Database File:	bonanza_creek_pronghorn_f_j_15_cbl.db		
Dataset Pathname:	merge1		
Dataset Creation:	Wed Mar 27 15:04:40 2013		
Gamma Ray Calibration Report			
Serial Number:	120367-Dig		
Tool Model:	Probe275		
Performed:	Fri Jun 11 16:02:47 2004		
Calibrator Value:	138.0	GAPI	
Background Reading:	37.7	cps	
Calibrator Reading:	241.8	cps	
Sensitivity:	0.6763	GAPI/cps	
Segmented Cement Bond Log Calibration Report			
Serial Number:	120424		
Tool Model:	Probe		
Calibration Casing Diameter:	7.000	in	
Calibration Depth:	449.497	ft	
Master Calibration, performed Thu Mar 21 09:26:31 2013:			

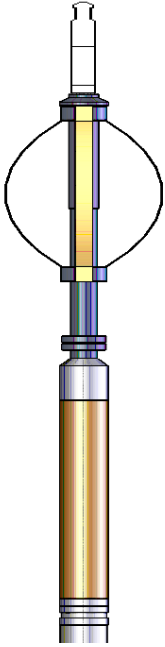
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.004	0.696	1.200	62.165	55.051	4.591
CAL	-0.014	1.258				
5'	-0.006	0.652	1.200	62.165	92.663	1.749
SUM						
S1	-0.002	0.758	0.000	100.000	121.592	0.247
S2	-0.004	0.699	0.000	100.000	132.254	0.587
S3	-0.006	0.682	0.000	100.000	130.421	0.811
S4	-0.006	0.679	0.000	100.000	136.137	0.813
S5	-0.000	0.678	0.000	100.000	137.388	0.013
S6	-0.010	0.674	0.000	100.000	136.142	1.431
S7	-0.007	0.689	0.000	100.000	133.613	0.990
S8	-0.008	0.708	0.000	100.000	129.686	1.061

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

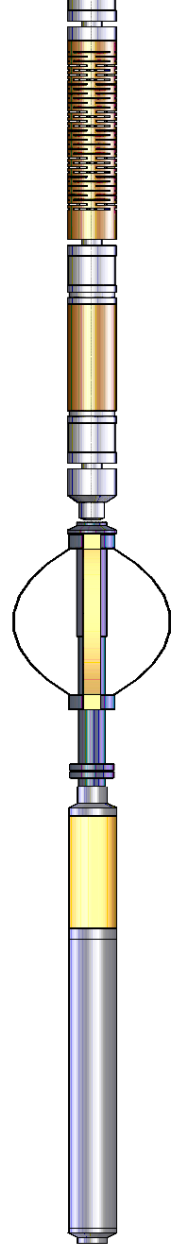
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.014	1.258	1.000	0.000

Air Zero Calibration, performed Wed Mar 27 11:14:44 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.002		0.000		-0.002	
5'	-0.003		0.000		-0.003	
SUM						
S1	0.038		0.000		-0.040	
S2	-0.001		0.000		-0.003	
S3	-0.002		0.000		-0.004	
S4	0.000		0.000		-0.006	
S5	-0.002		0.000		0.002	
S6	-0.002		0.000		-0.008	
S7	-0.001		0.000		-0.006	
S8	-0.002		0.000		-0.005	

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	12.02		RBT-Probe (120424) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	12.02					
WVFS1	12.02					
WVFS2	12.02					
WVFS3	12.02					
WVFS4	12.02					
WVFS5	12.02					
WVFS6	12.02					
WVFS7	12.02					
WVFS8	12.02					
WVF5FT	11.02					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	4.00					
GR	2.54		GR-Probe275 (120367-Dig) Probe 2 3/4" Digital Gamma Ray/CCL	4.96	2.75	57.00
Dataset: bonanza_creek_pronghorn_f_j_15_cbl.db: field/well/run1/merge1 Total Length: 20.46 ft Total Weight: 197.00 lb O.D. 2.75 in						