



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

Company	Bonanza Creek Energy	Location:	API # : 05-123-39063	Other Services			
Well	Antelope 11-41-33HNB			NONE			
Field	Wattenberg						
County	Weld						
State	Colorado						
		SEC 33	TWP 5N	RGE 62W			
Permanent Datum	Ground Level	Elevation	4579'	Elevation			
Log Measured From	Kelly Bushing 16' APD			K.B. 4595'			
Drilling Measured From	Kelly Bushing			D.F. 4594'			
				G.L. 4579'			
Date	May 19, 2014						
Run Number	1						
Depth Driller	-						
Depth Logger	6443'						
Bottom Logged Interval	6430'						
Top Log Interval	Surface						
Open Hole Size	8.75						
Type Fluid	Fresh Water						
Density / Viscosity	8.33						
Max. Recorded Temp.	-						
Estimated Cement Top	-						
Time Well Ready	14:52						
Time Logger on Bottom	15:30						
Equipment Number	13033						
Location	Brighton						
Recorded By	C. Rail						
Witnessed By	Kevin Bunker						
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#	0	467'			
Prot. String							
Production String	7"	26#	0	6748'			
Liner			6556'	-			

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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 Logged w/o PSI  
  
Logged from 16' Kelly Bushing  
  
Logging Speed Requested by Company  
  
Thank You For using Allied Wireline Services  
(303) 659-4609



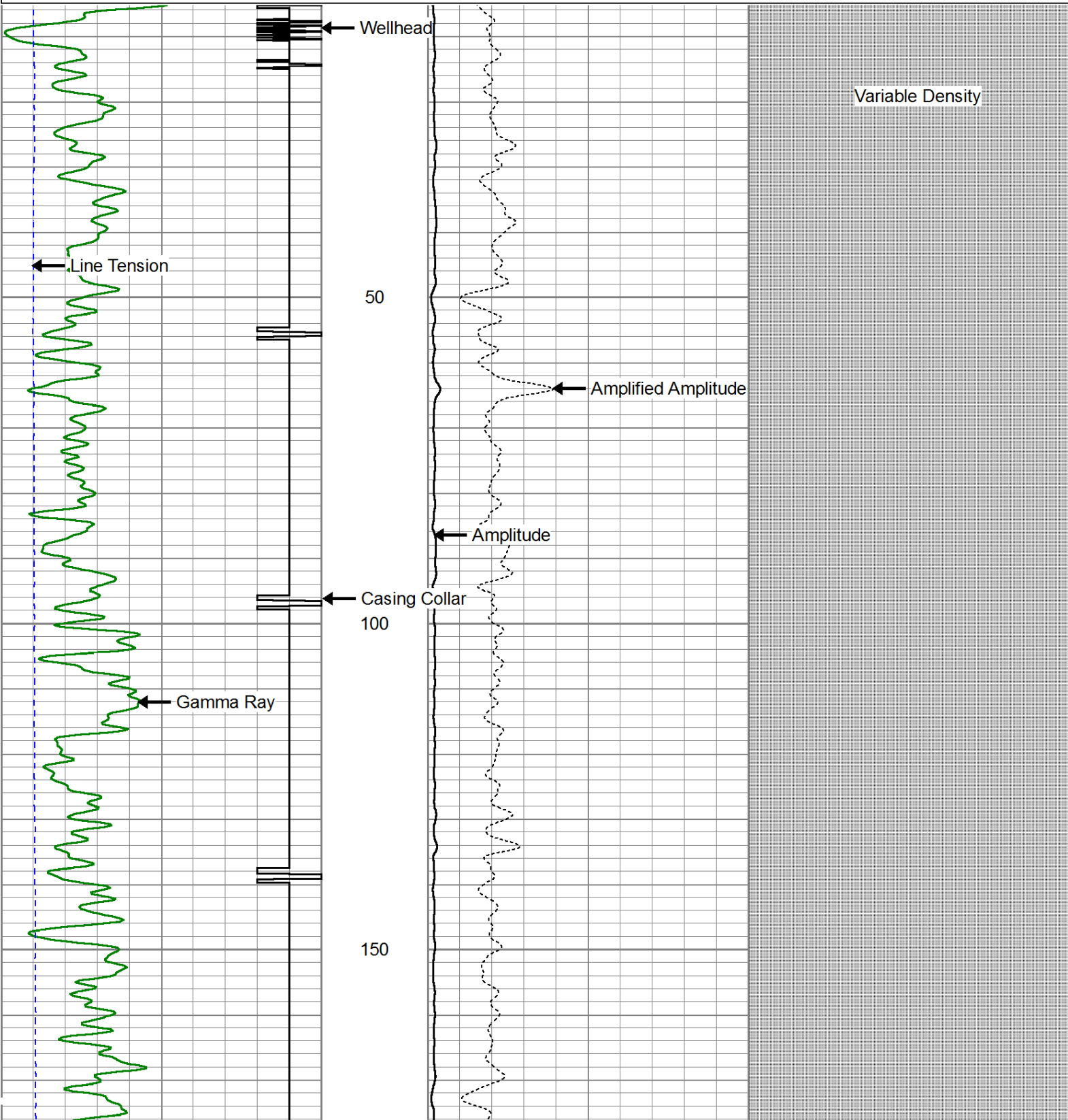
Main Pass ( 0 PSI )

Database File: bonanza creek antelope 11-41-33hnc\_cbl.db  
Dataset Pathname: pass5  
Presentation Format: cblprobe  
Dataset Creation: Mon May 19 15:38:05 2014 by Log 0  
Charted by: Depth in Feet scaled 1:240

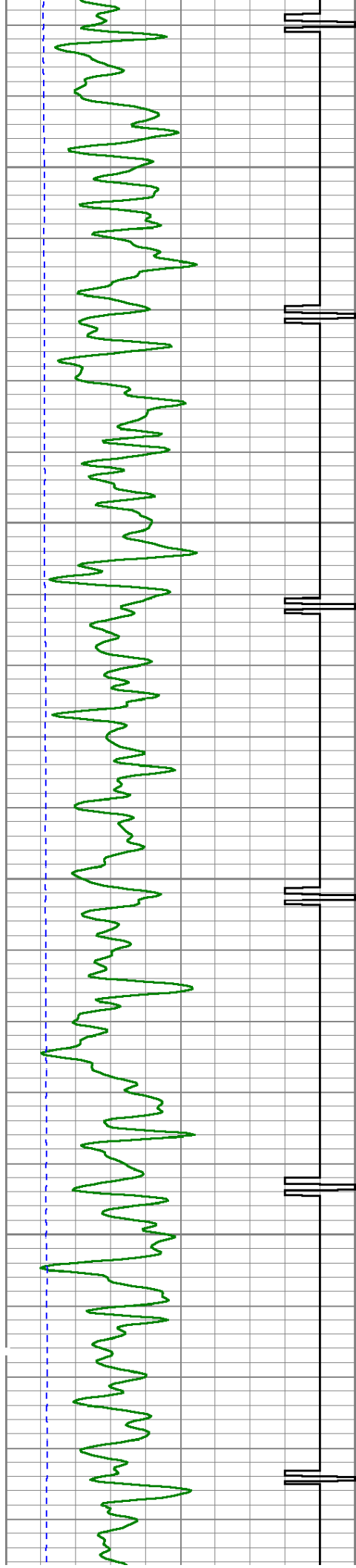
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9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

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

200 Variable Density 1200





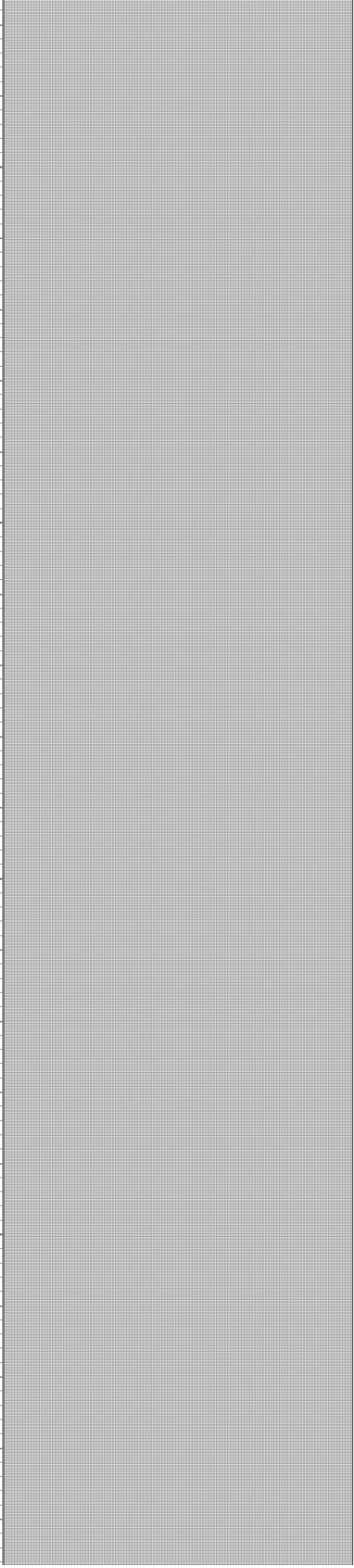
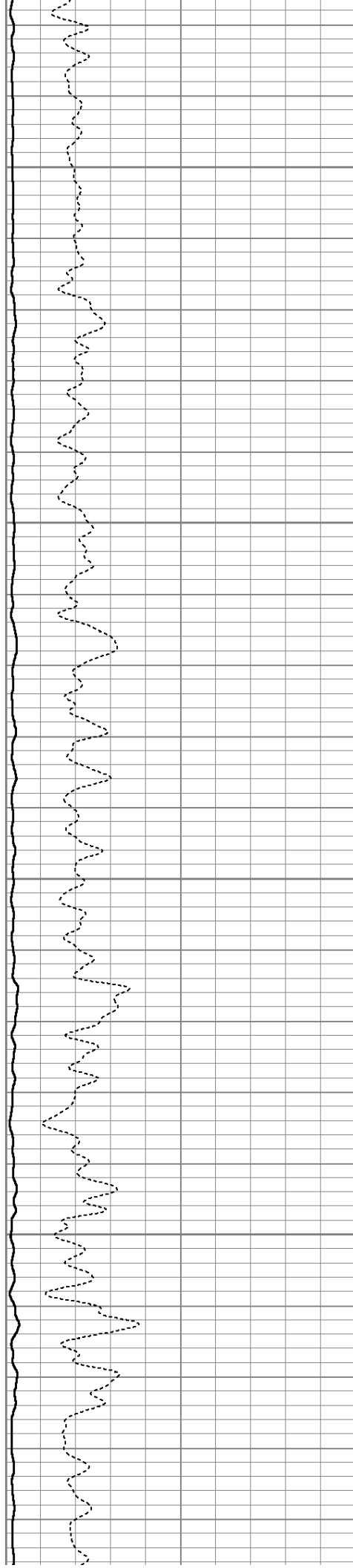


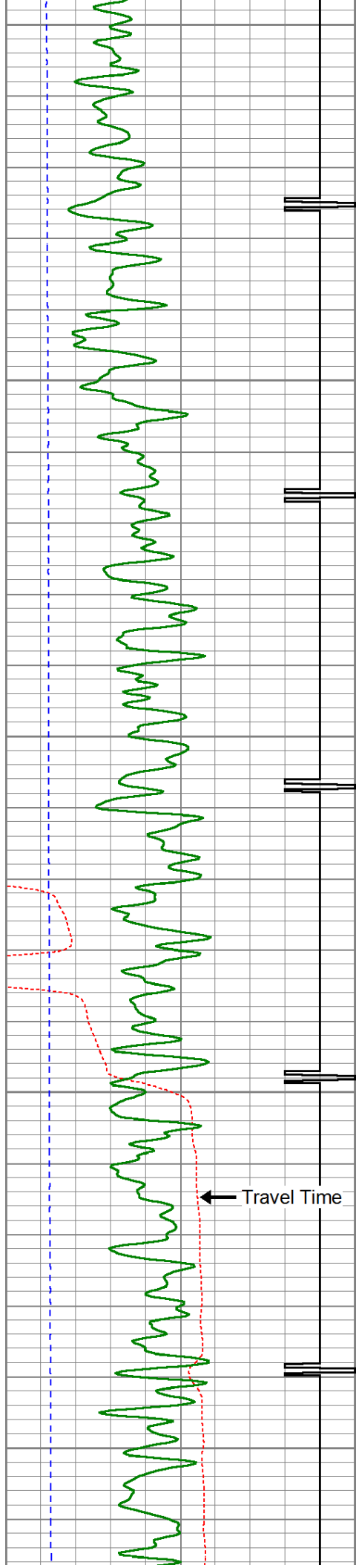
200

250

300

350





Fluid Level

Travel Time

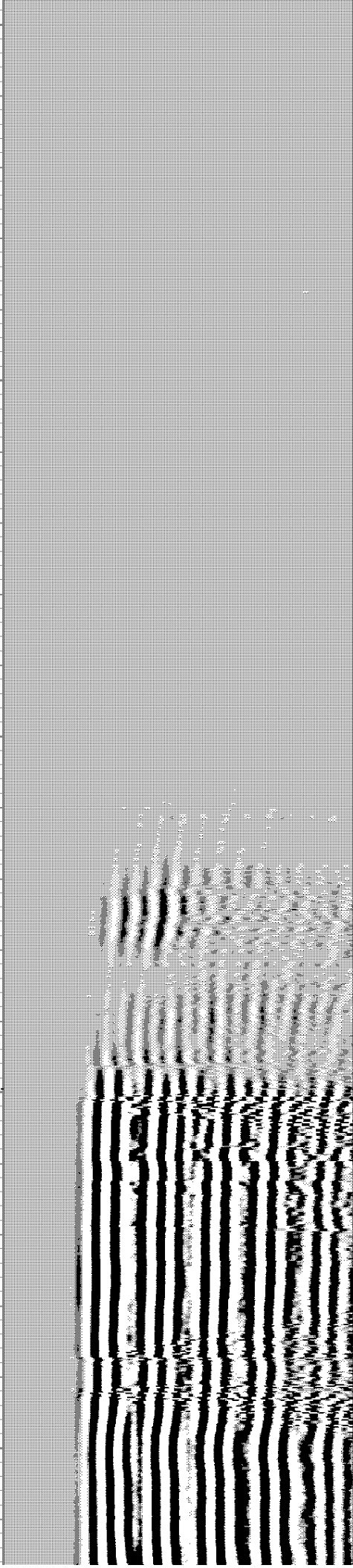
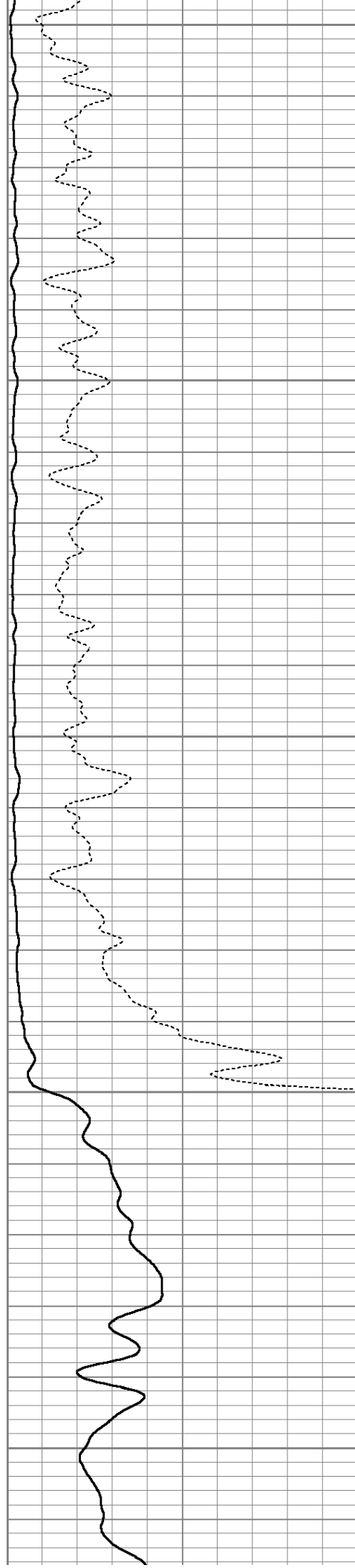
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450

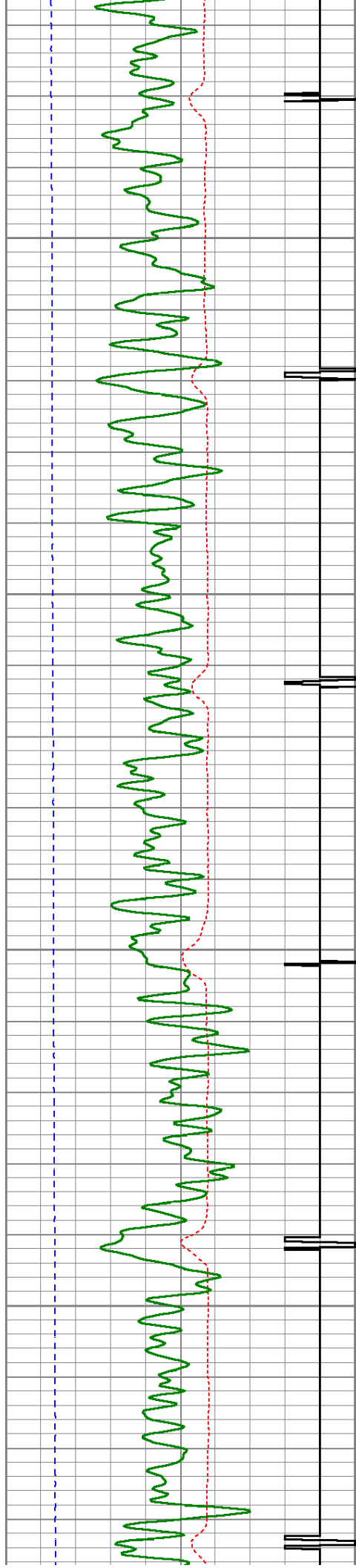
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550

600





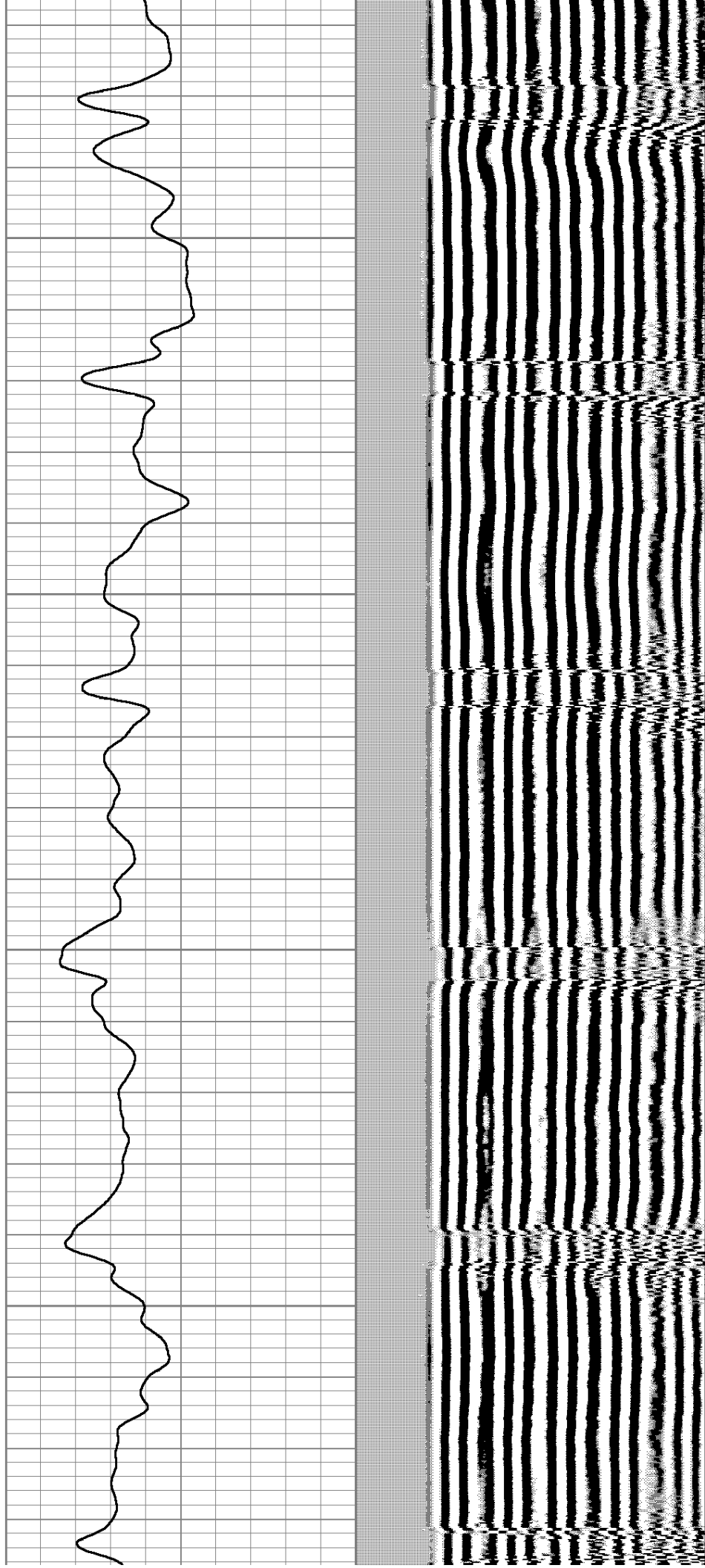


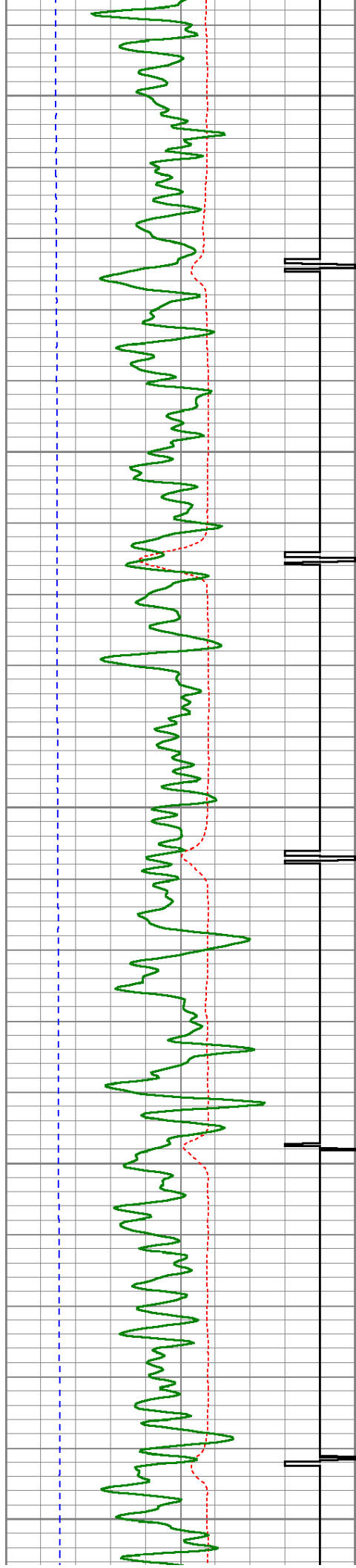
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700

750

800





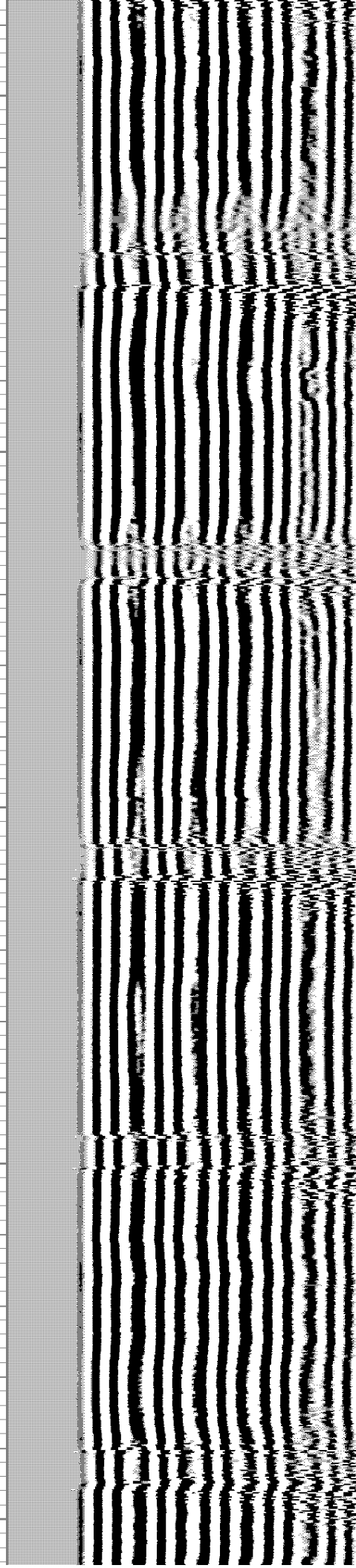
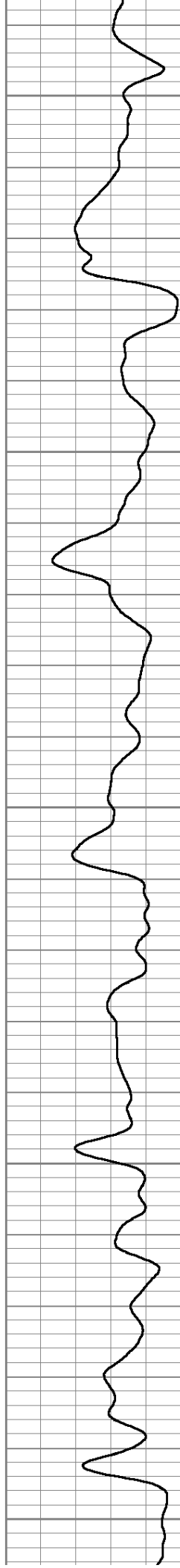
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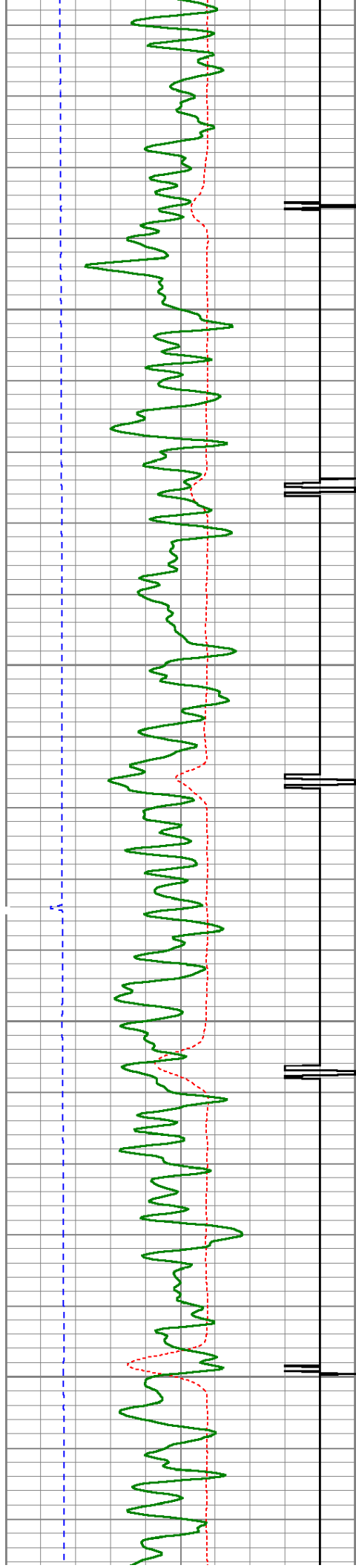
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950

1000

1050



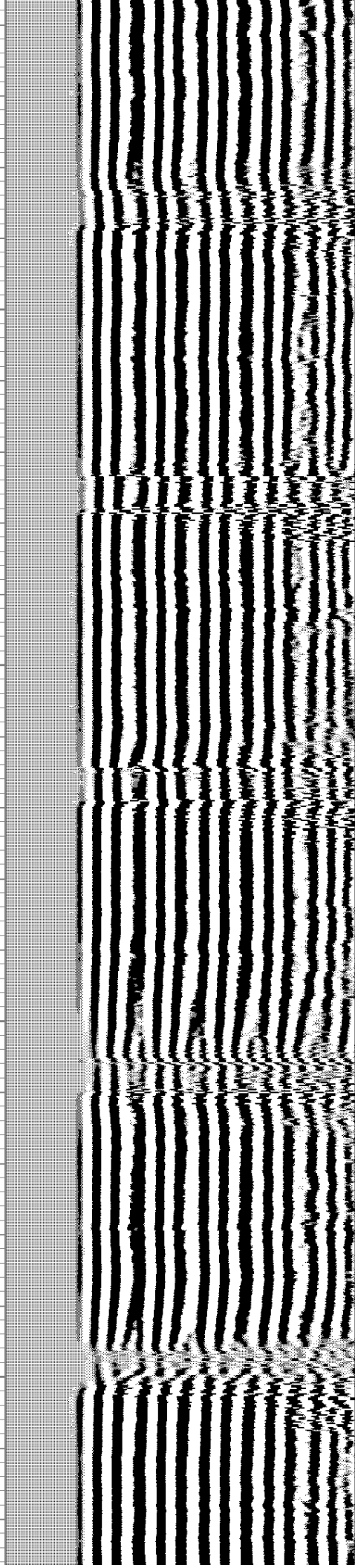
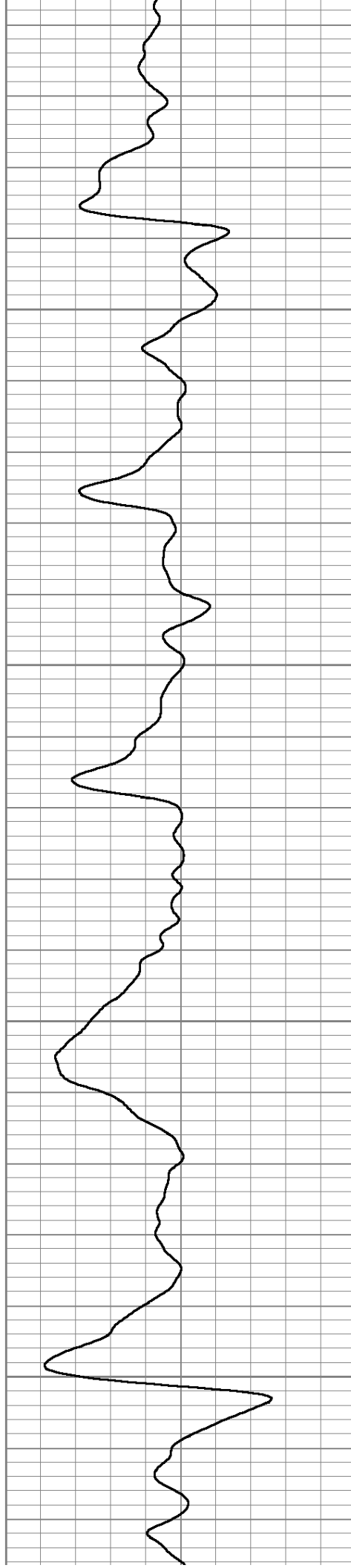


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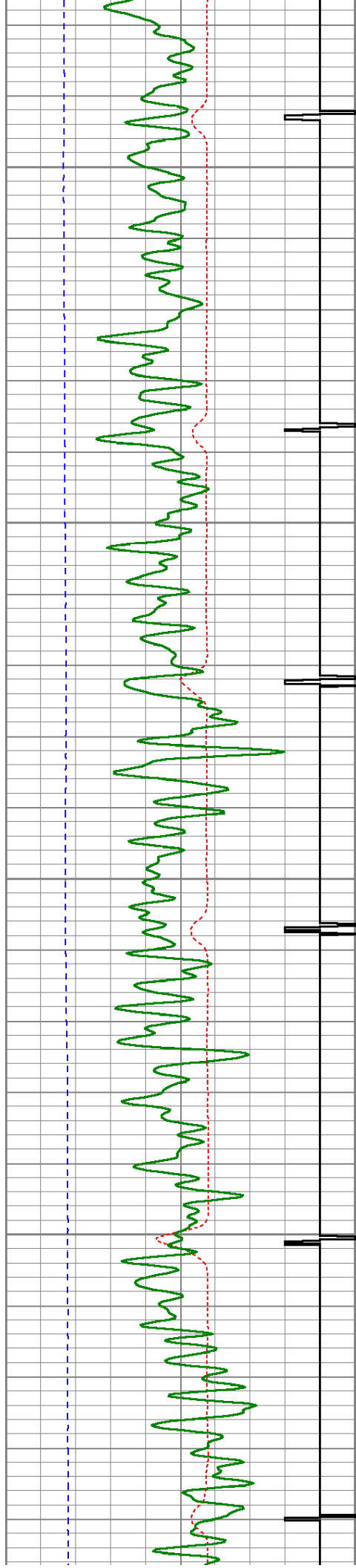
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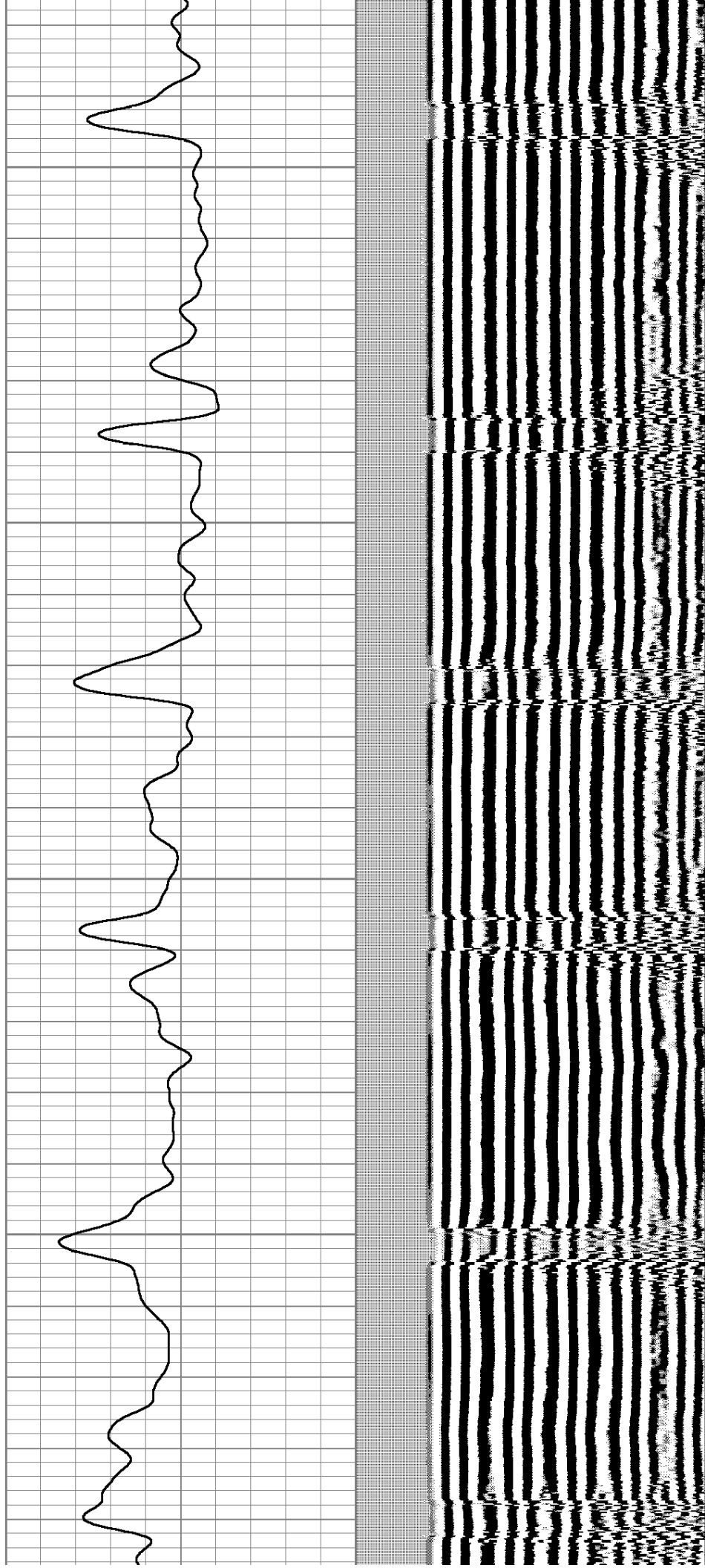


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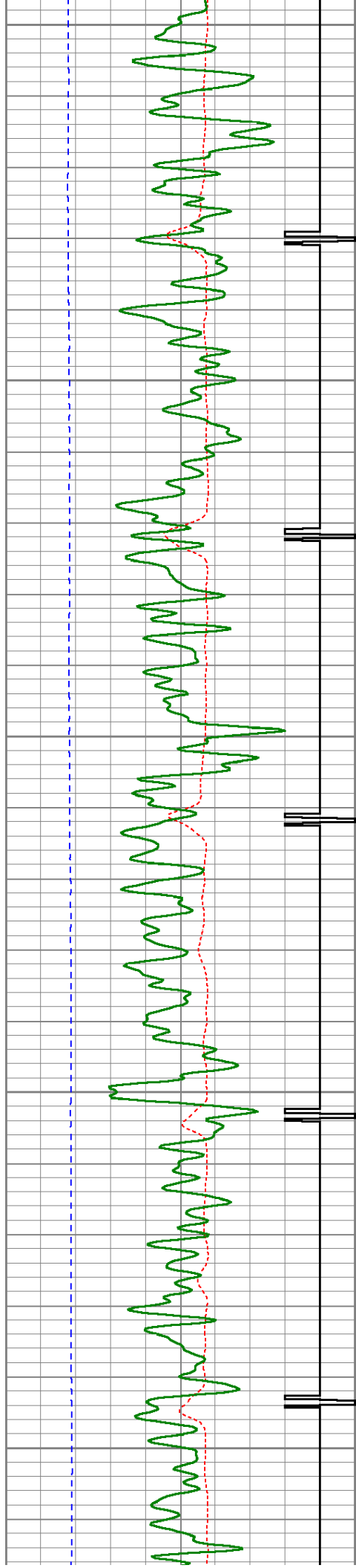
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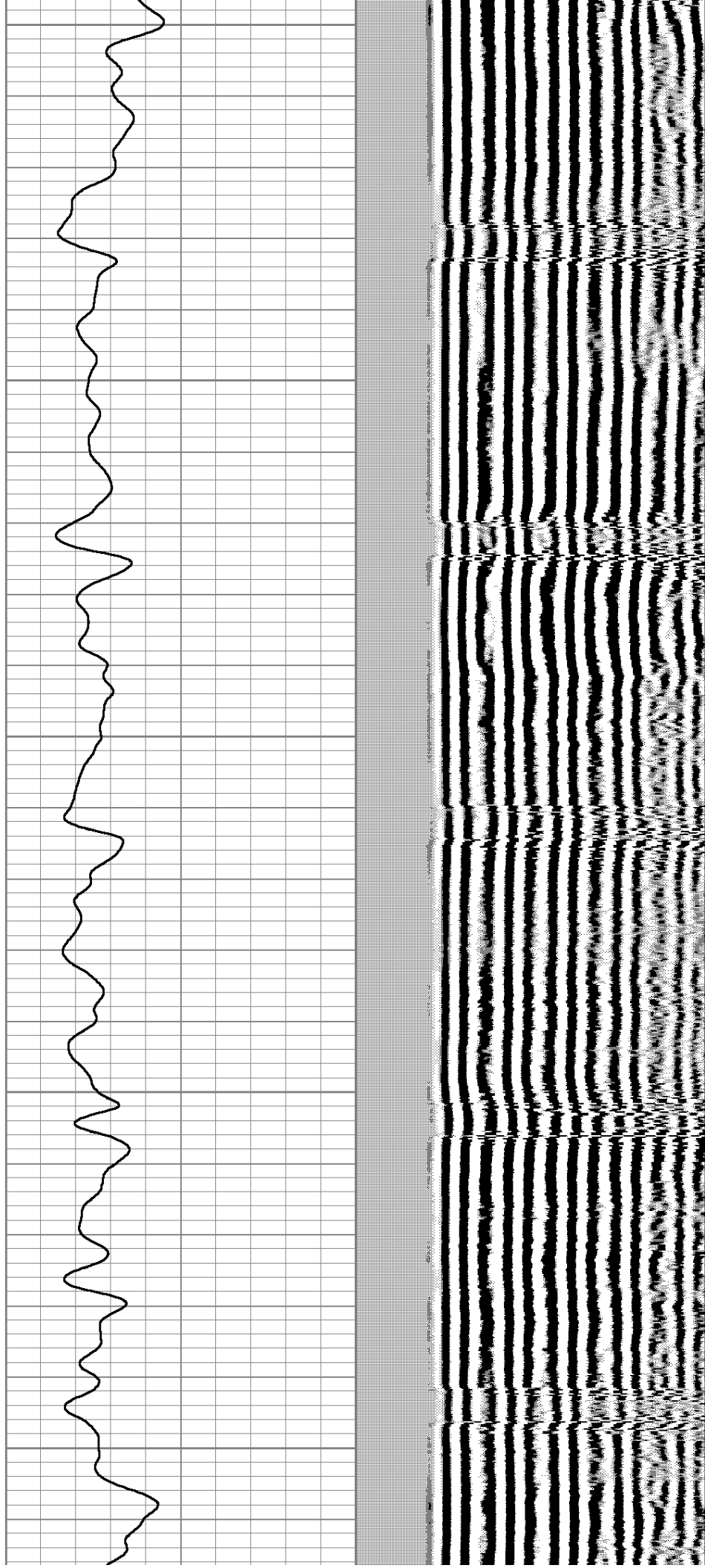
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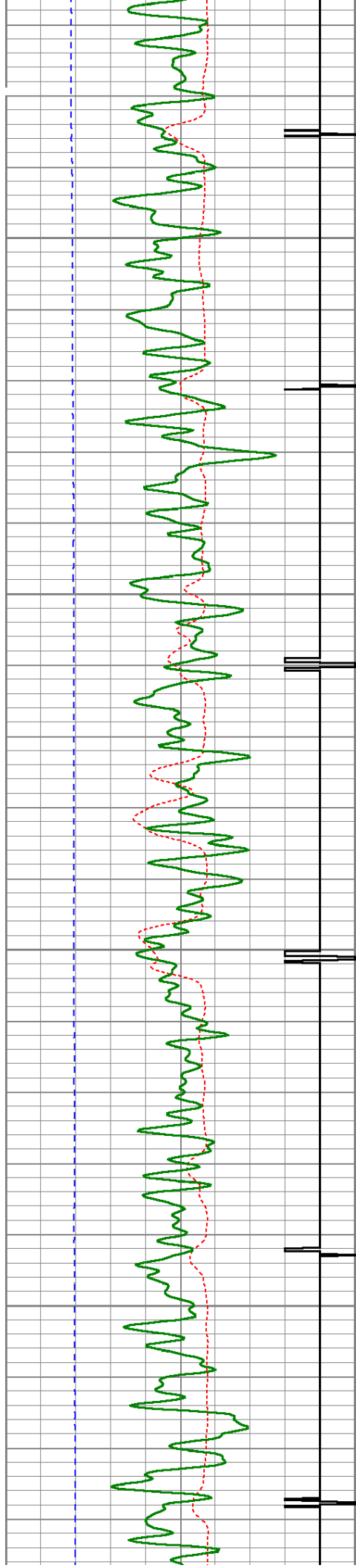
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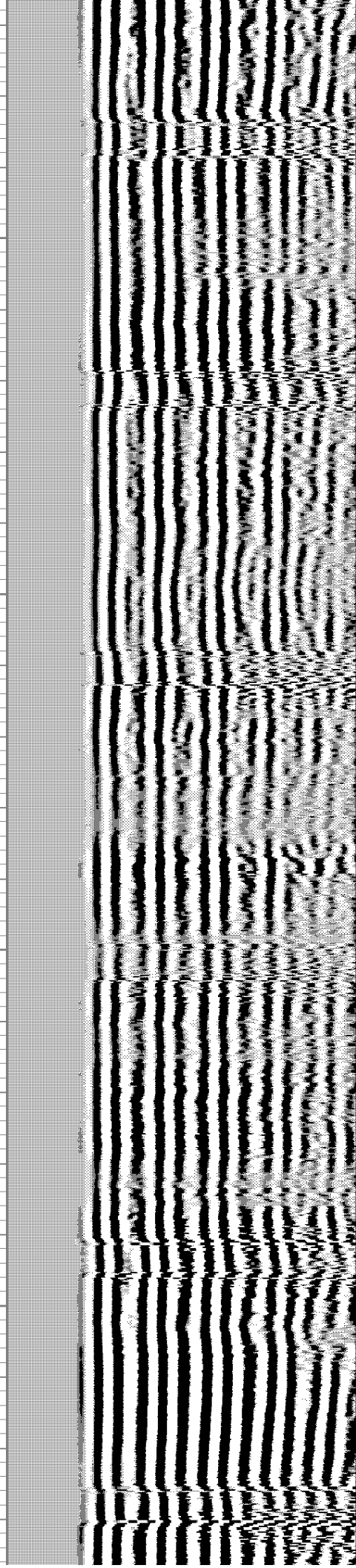
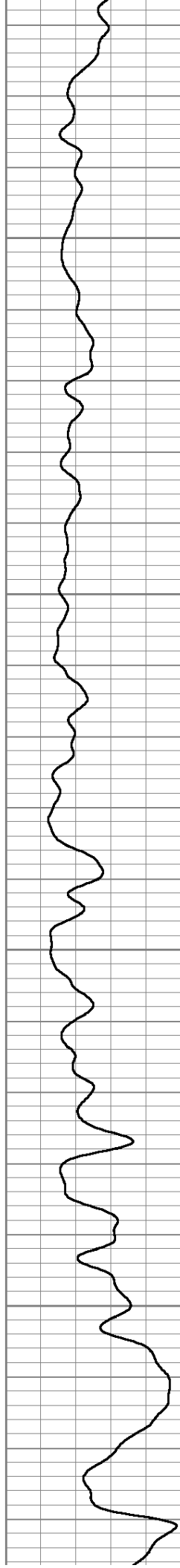


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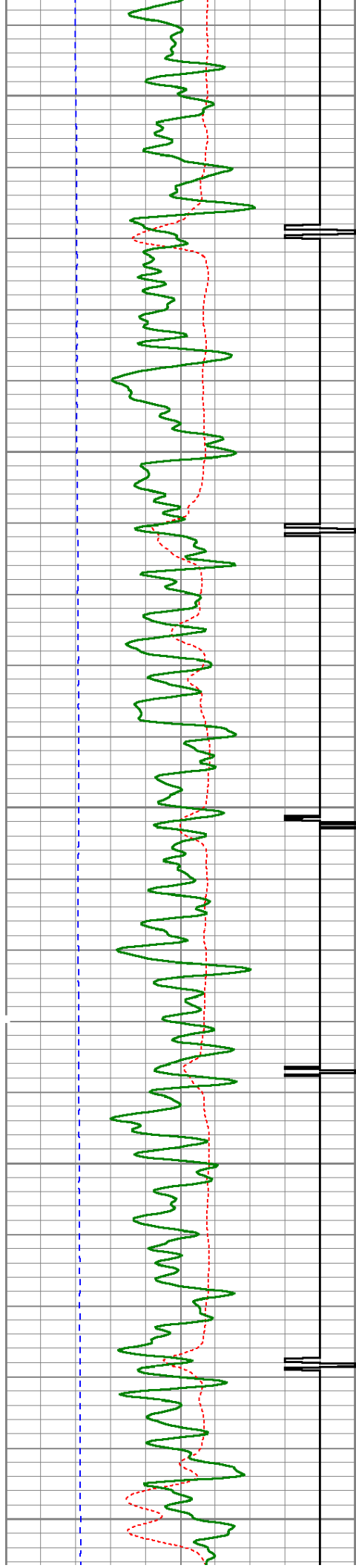
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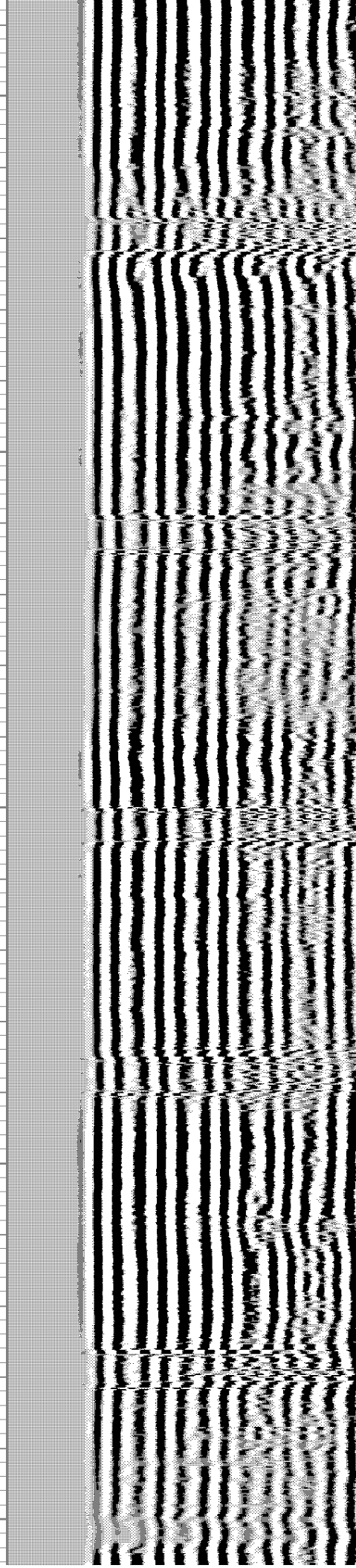
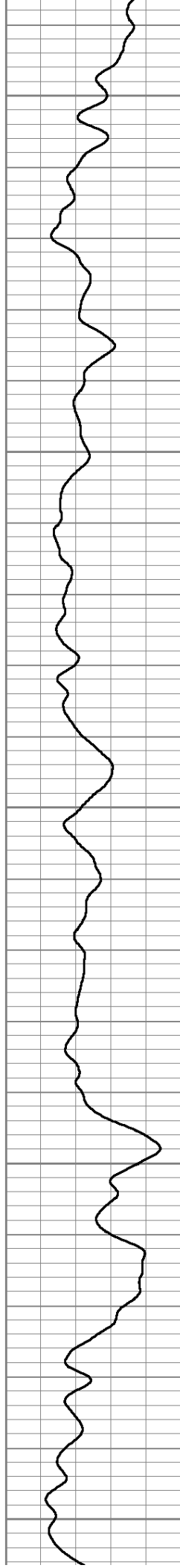
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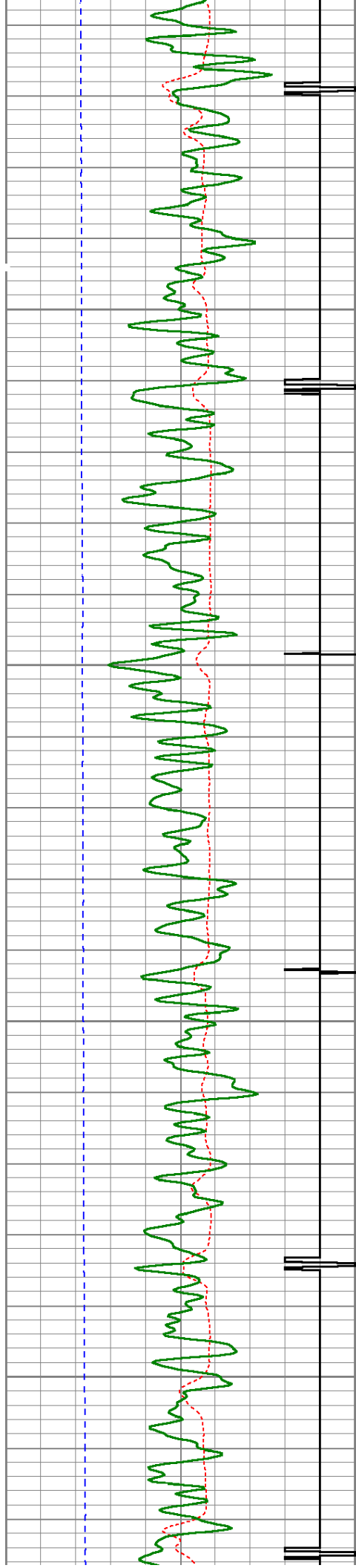
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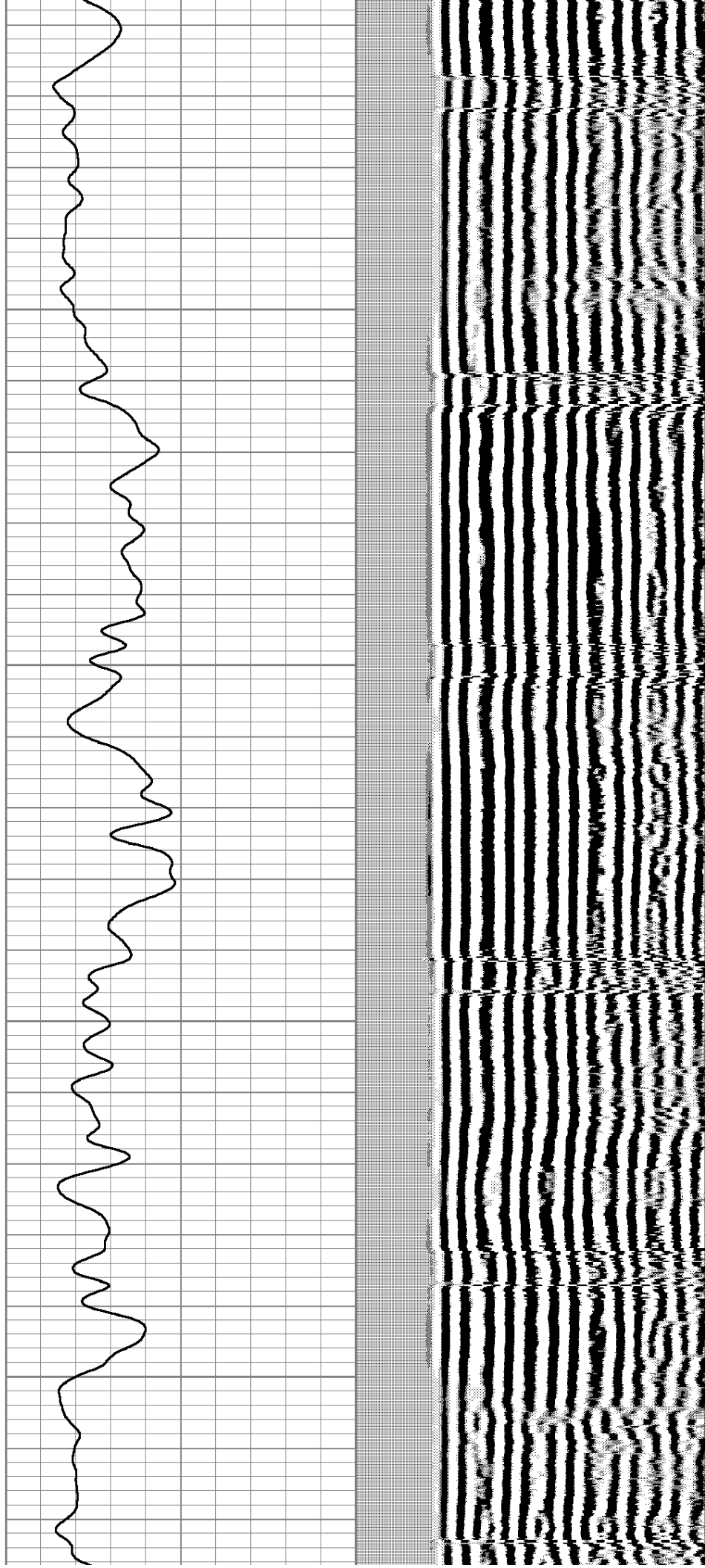


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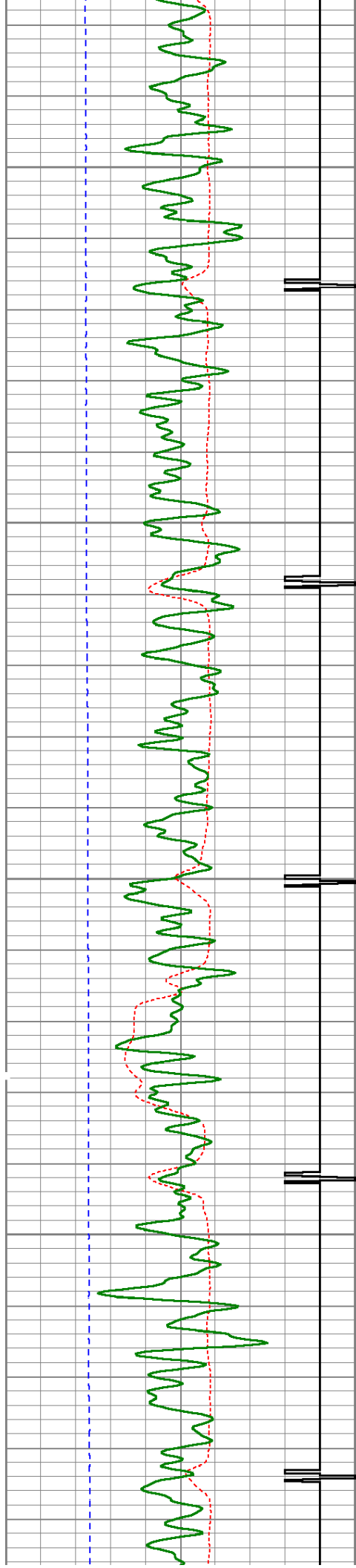
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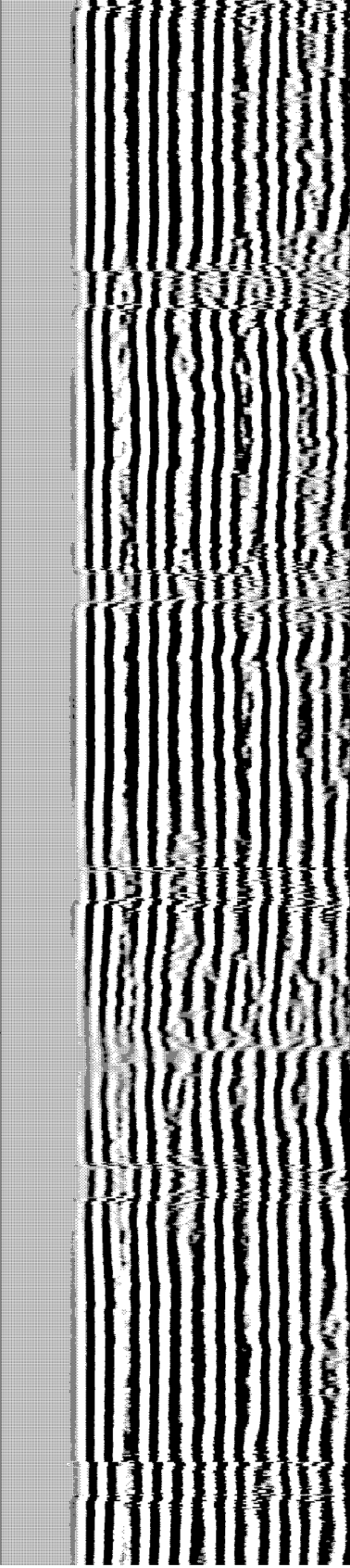
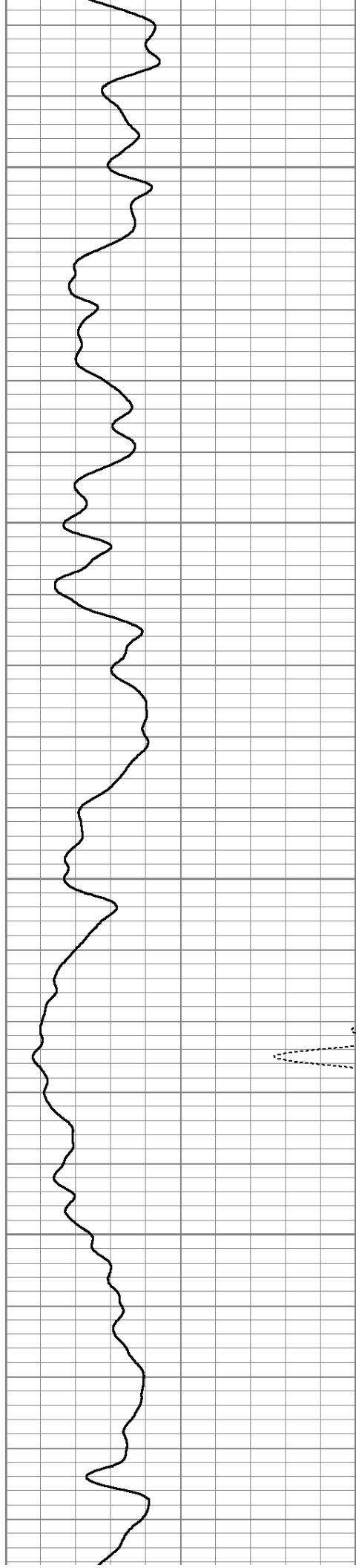


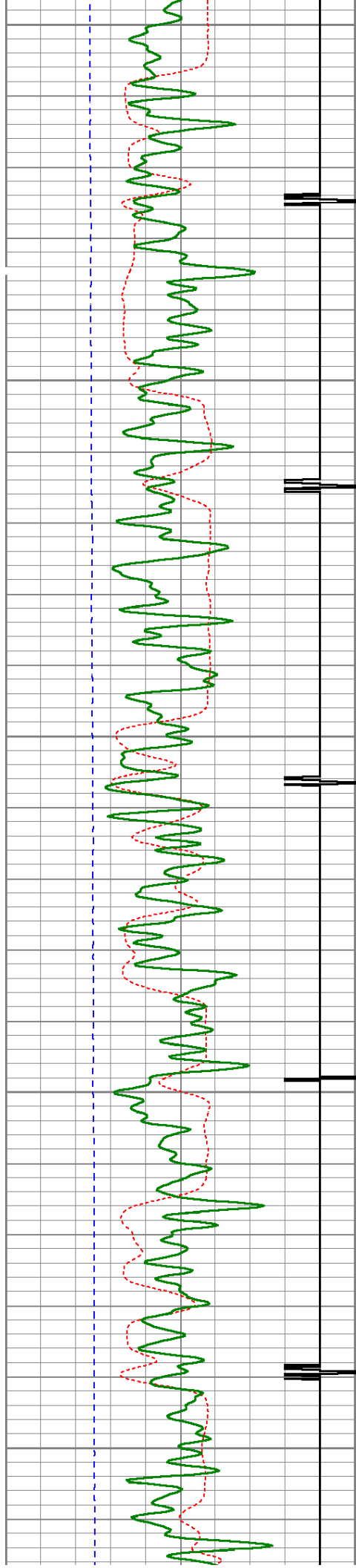
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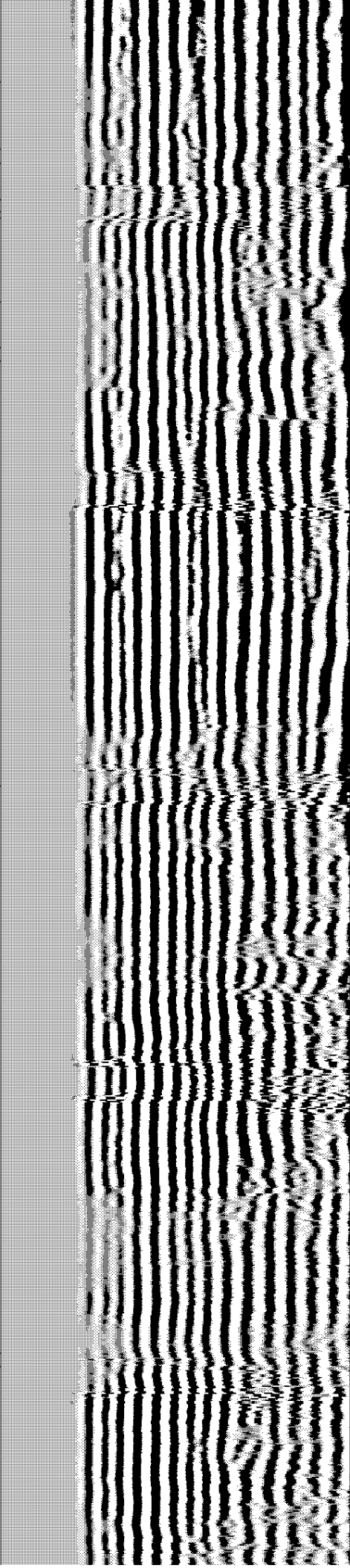
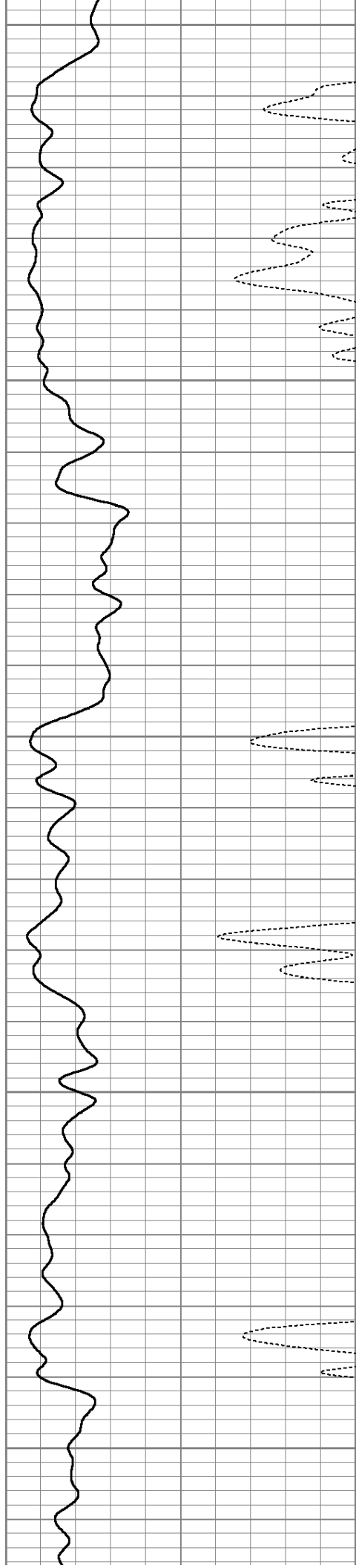
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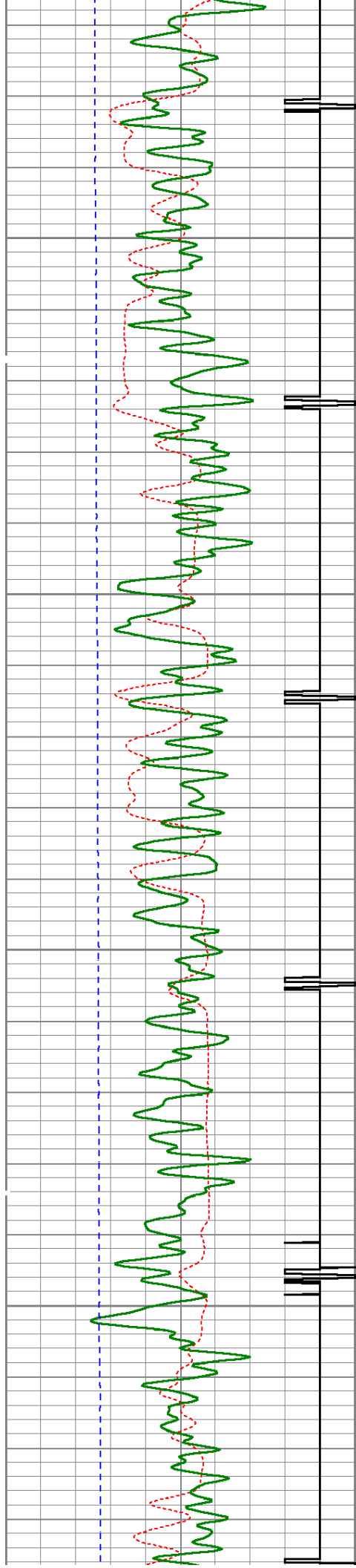
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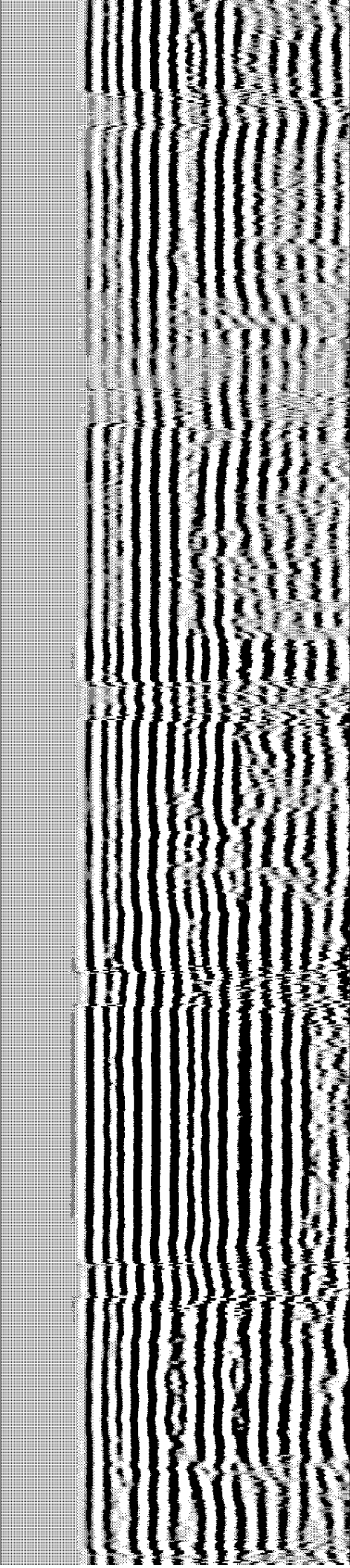
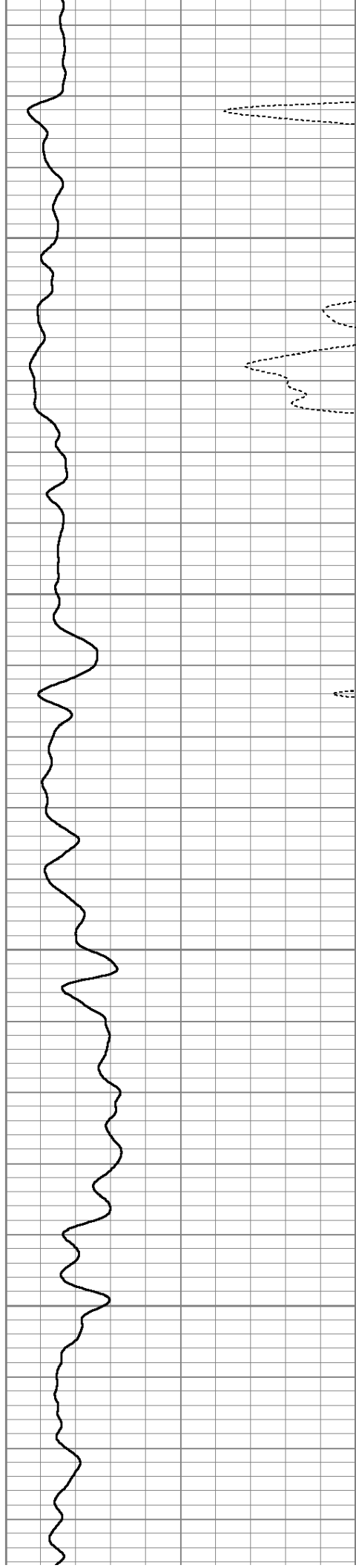


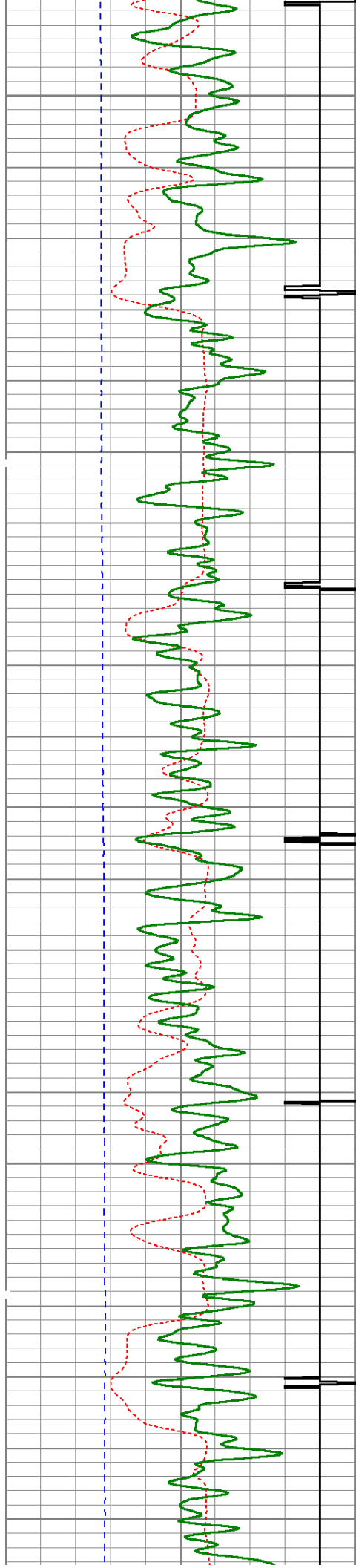
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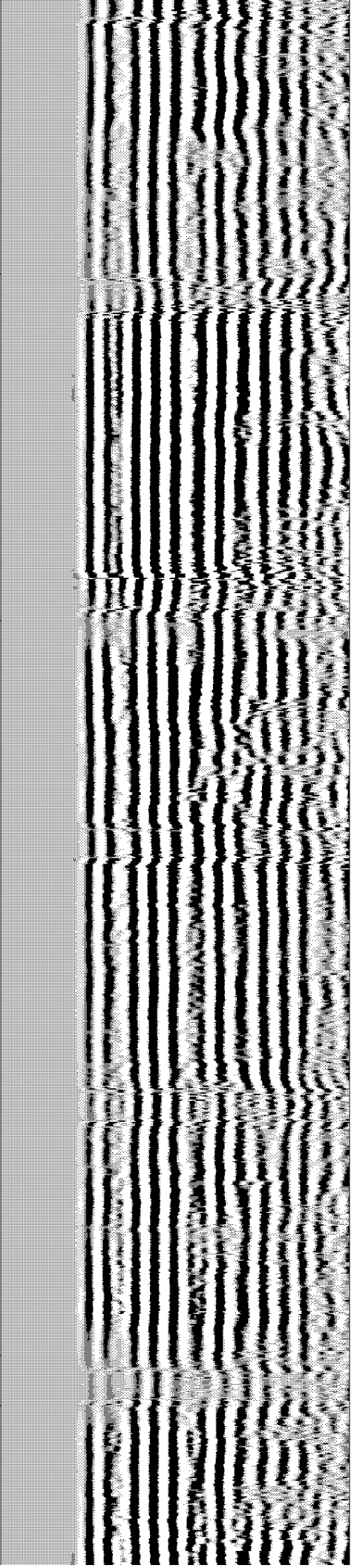
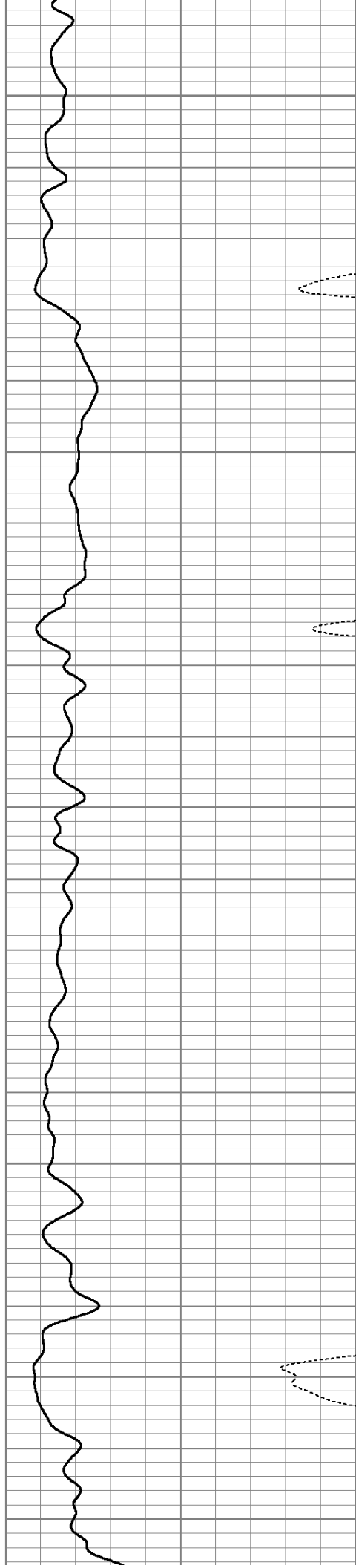
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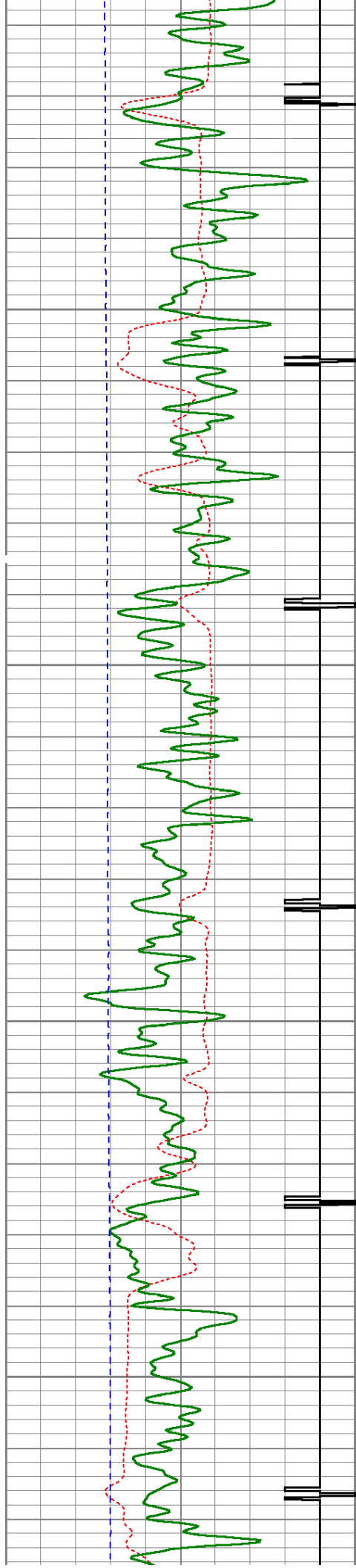
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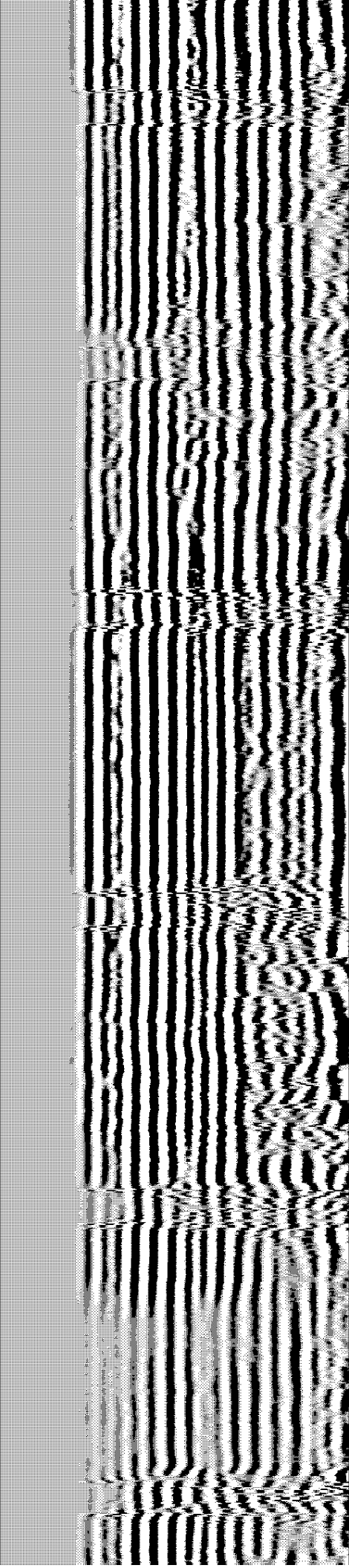
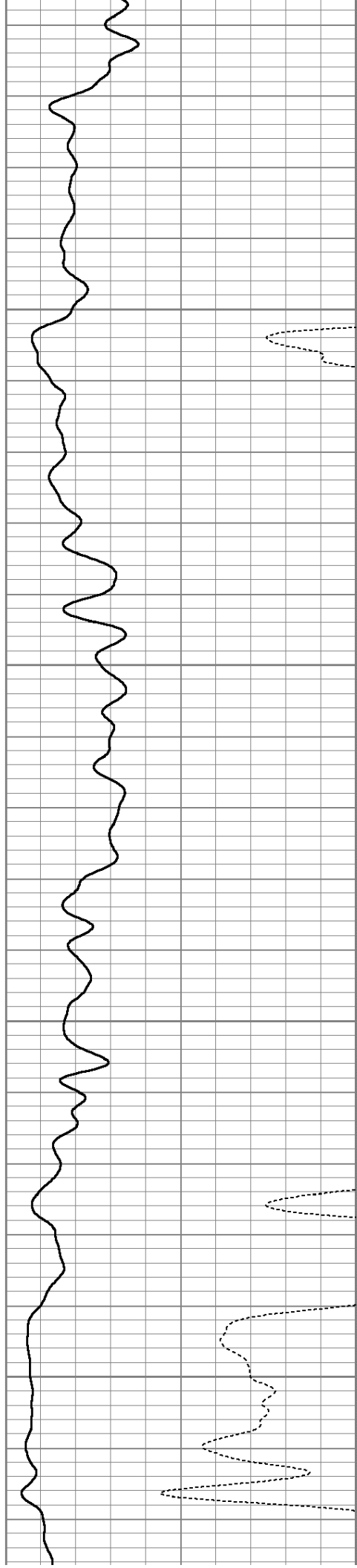


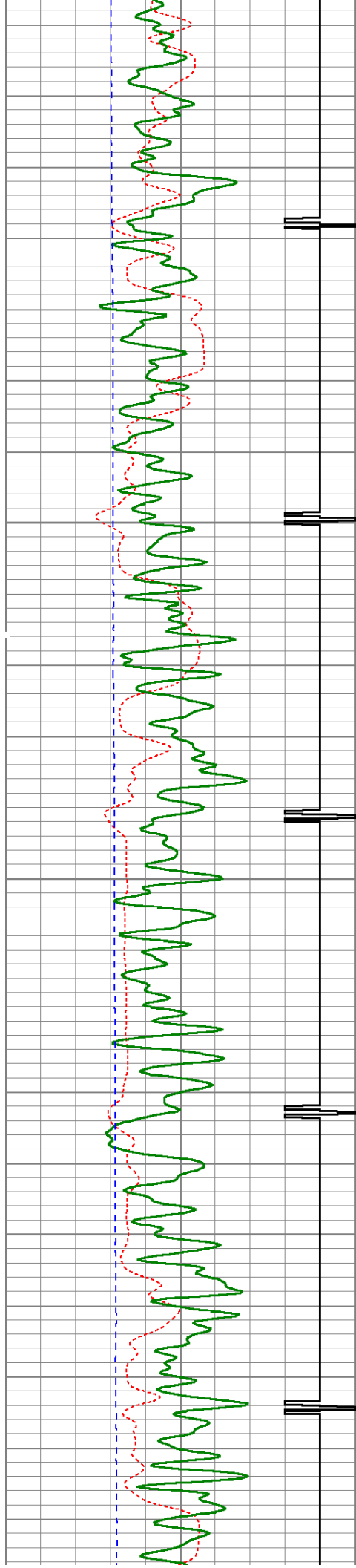
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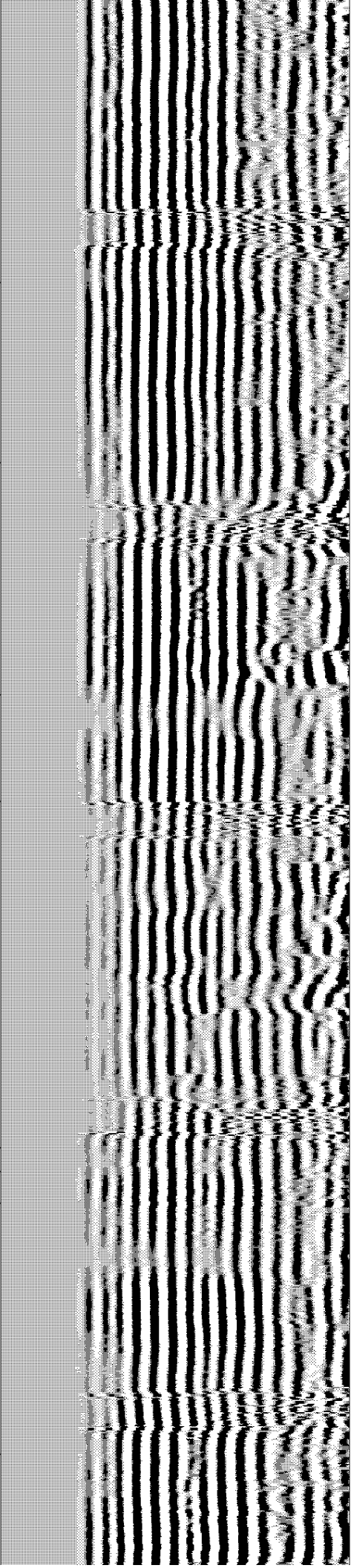
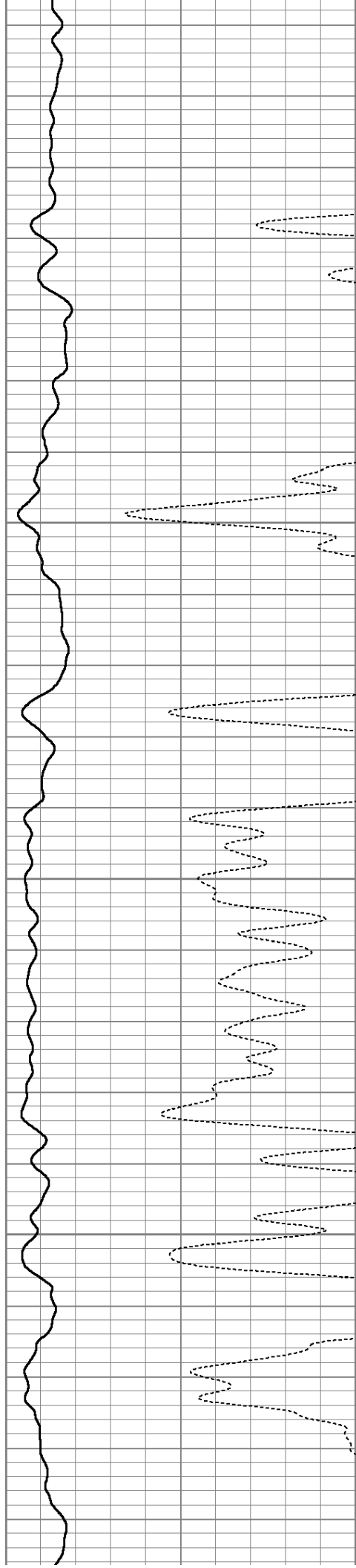


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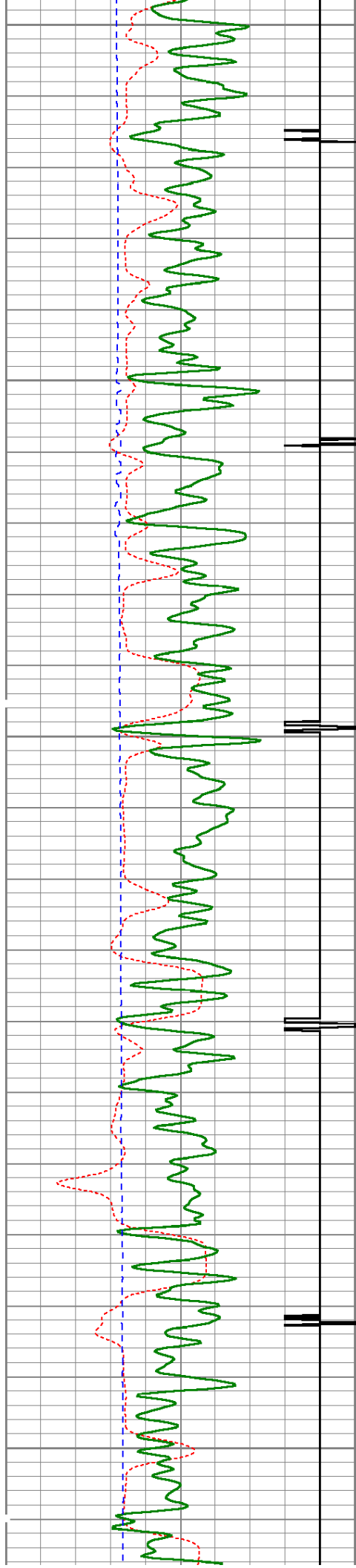
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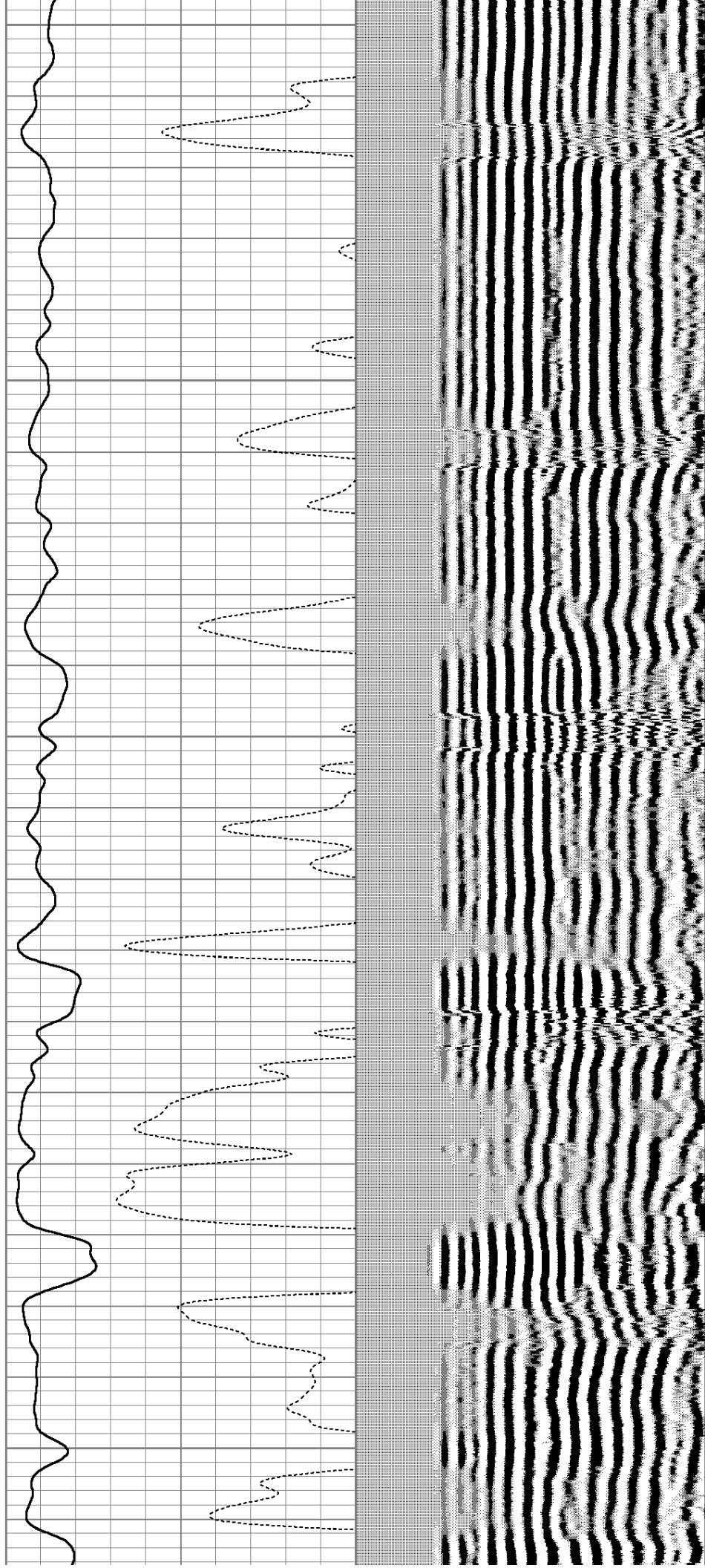
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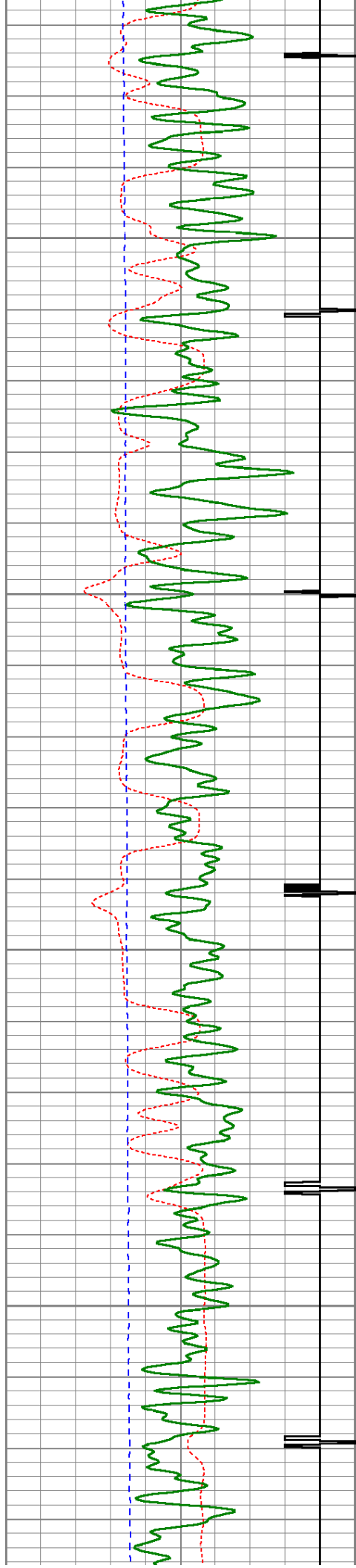
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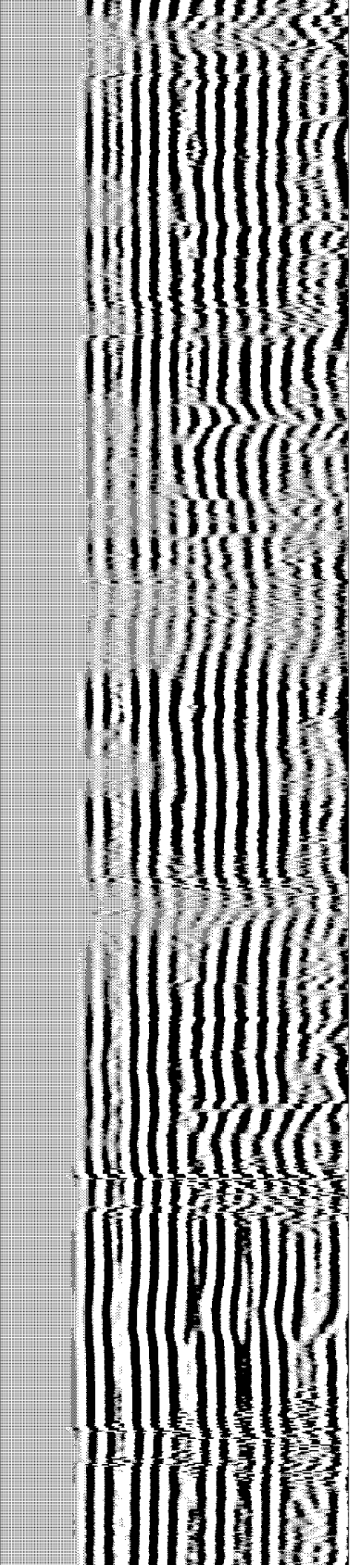
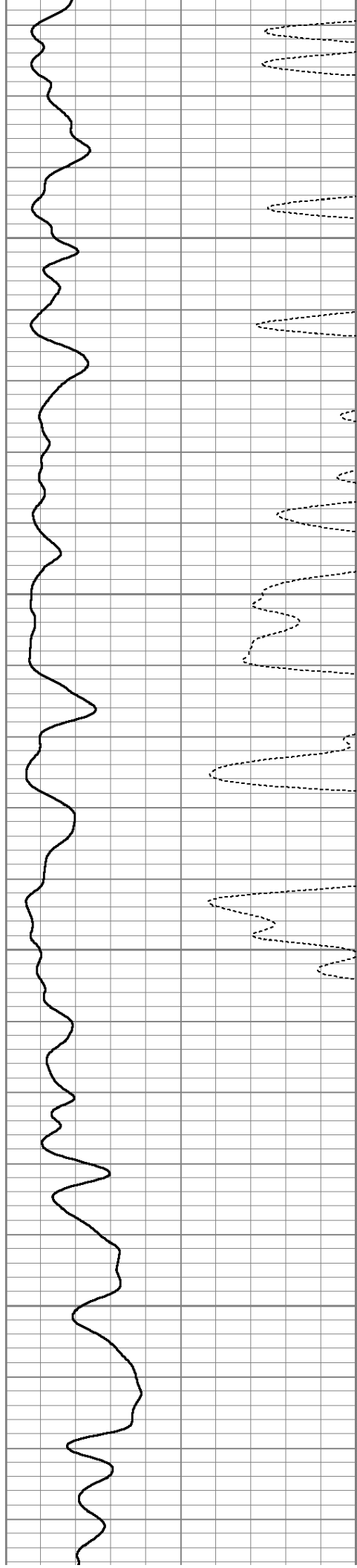


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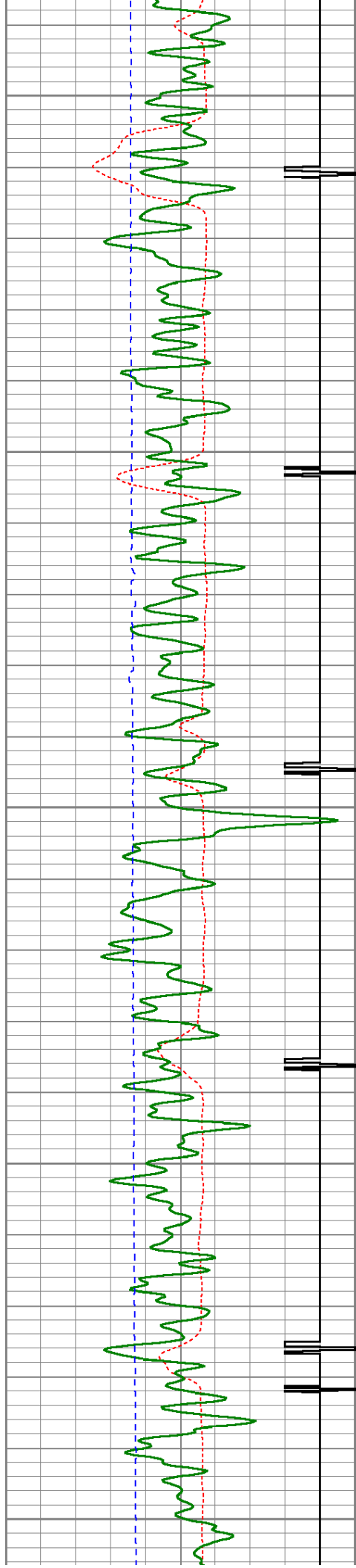
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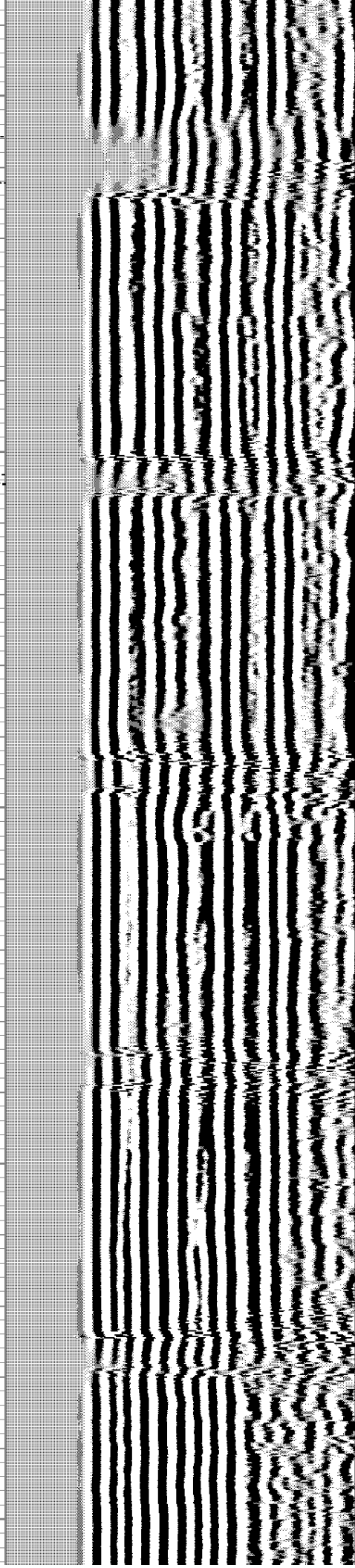
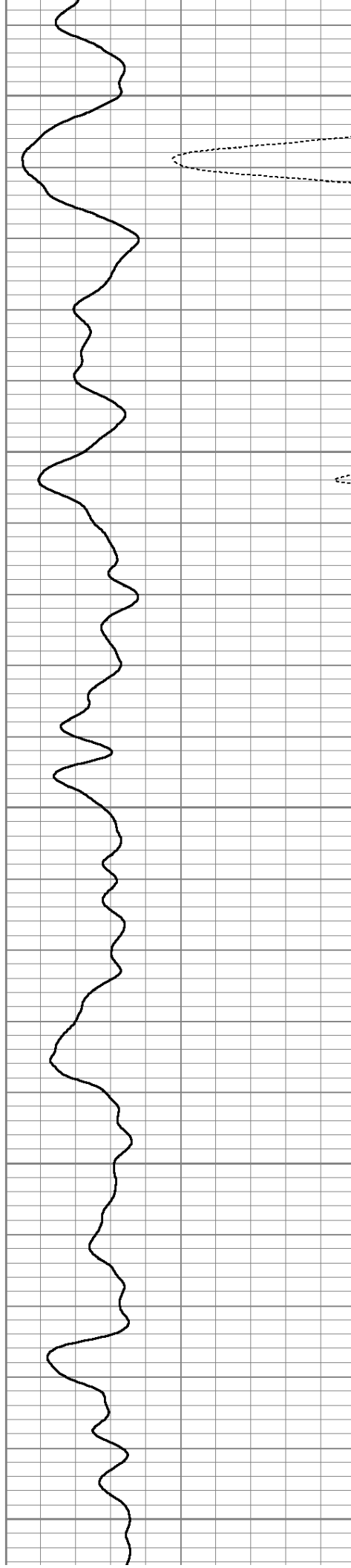
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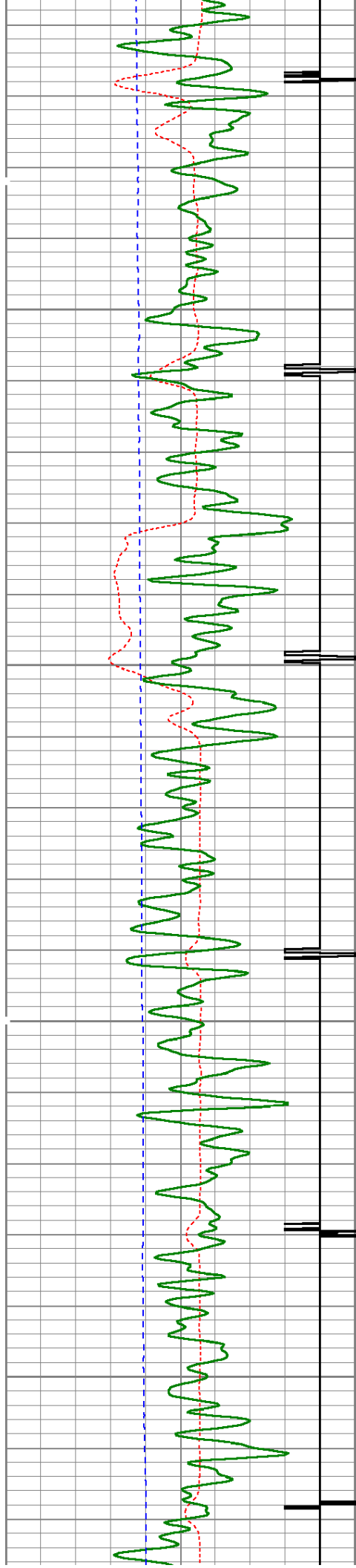
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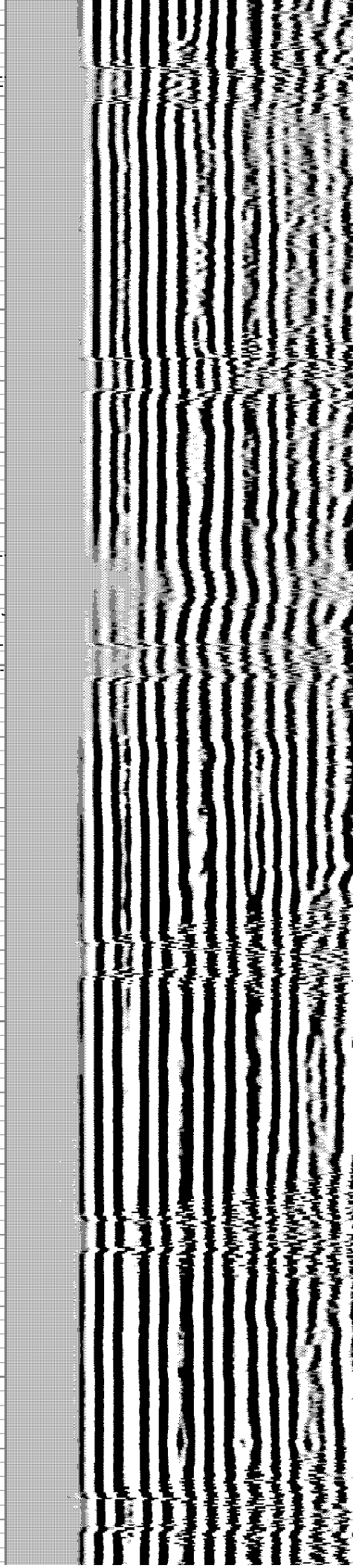
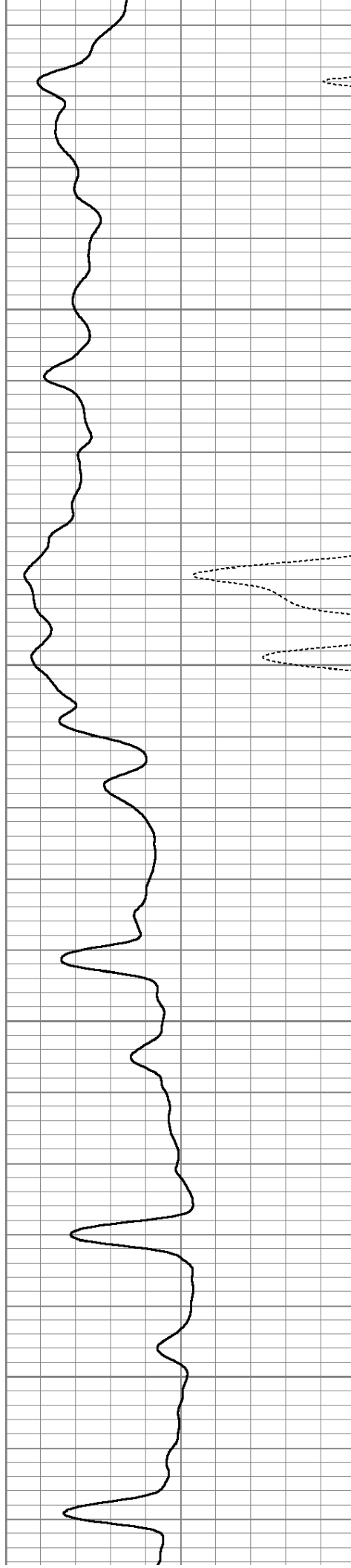


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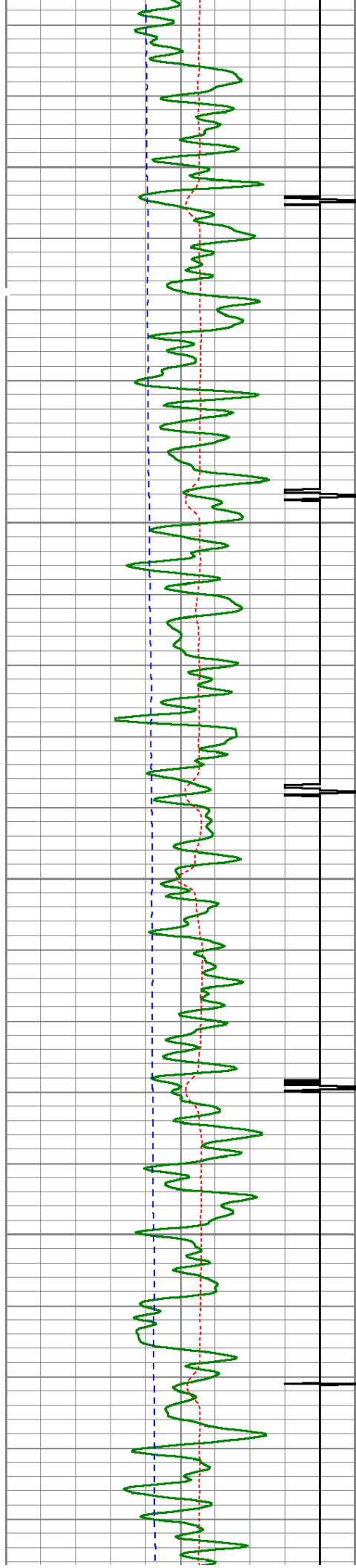
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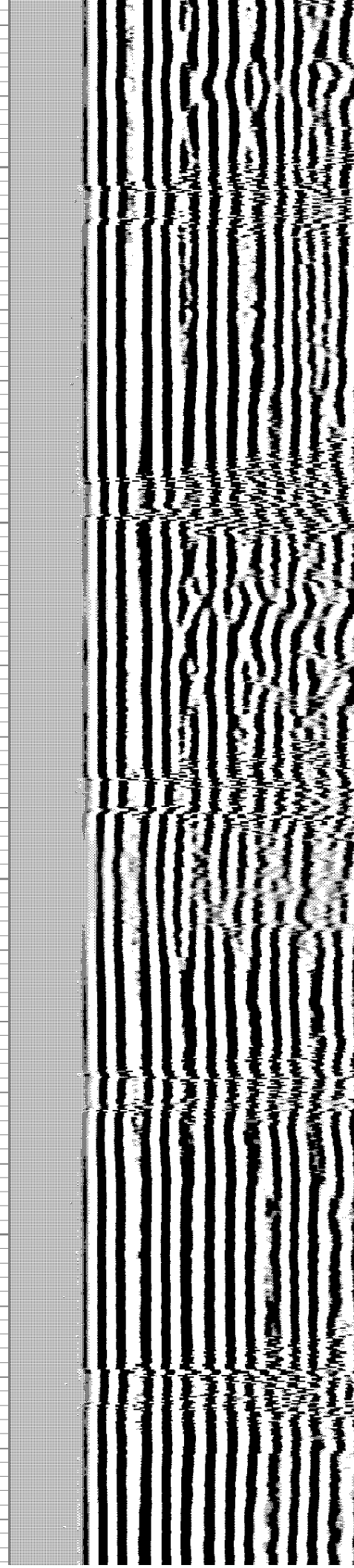
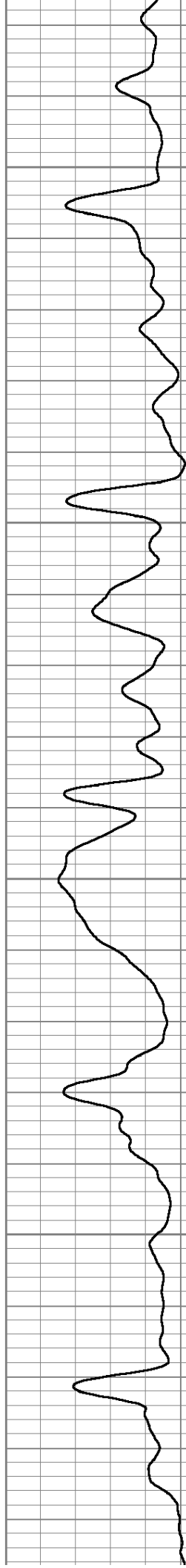


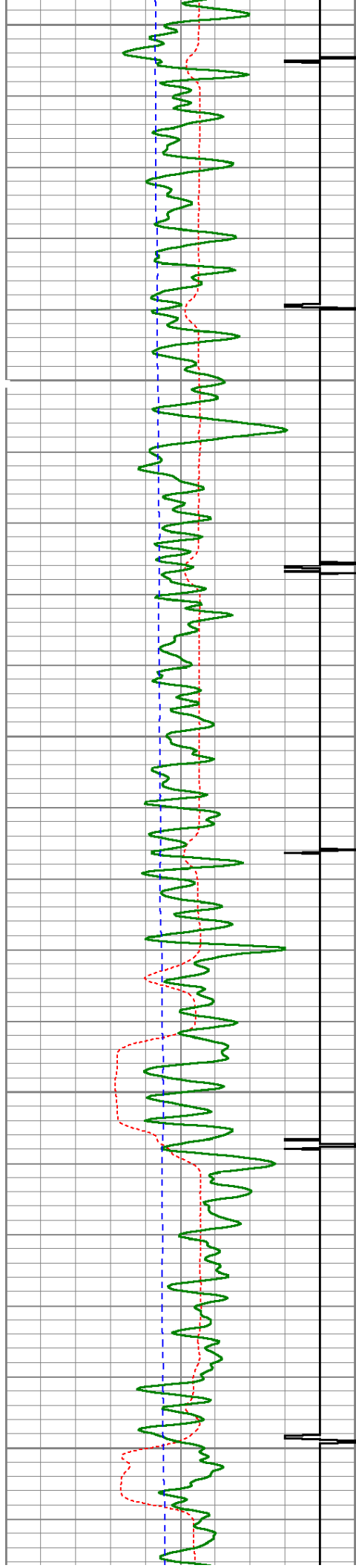
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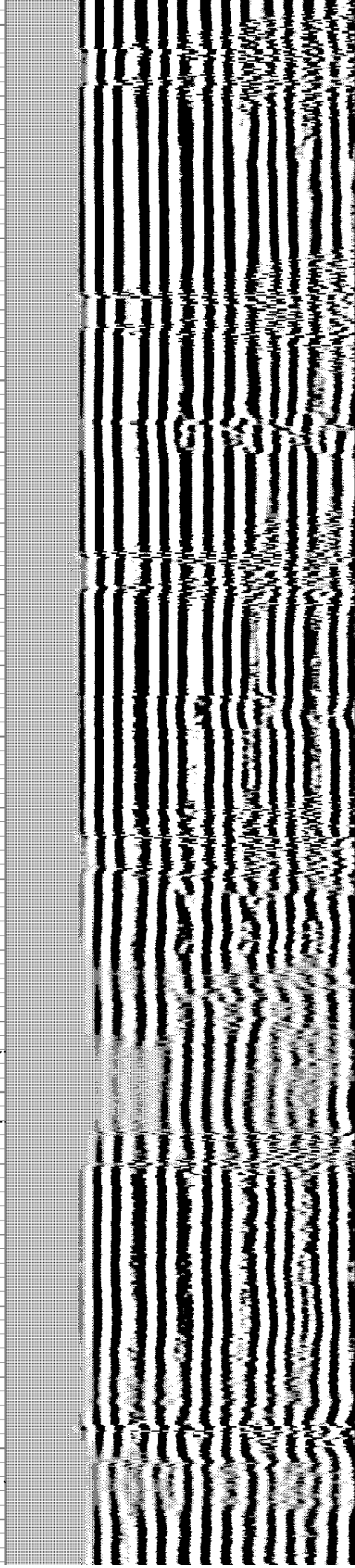
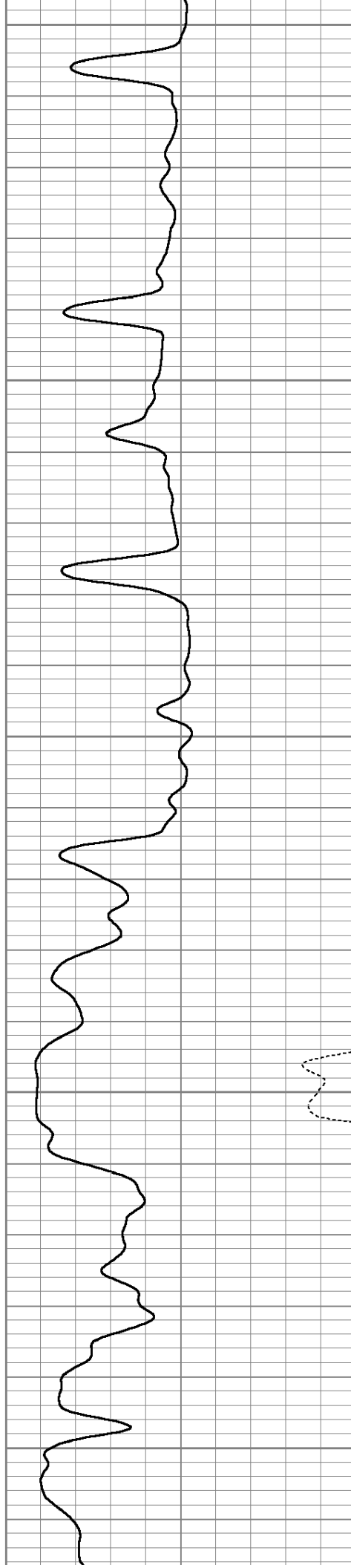
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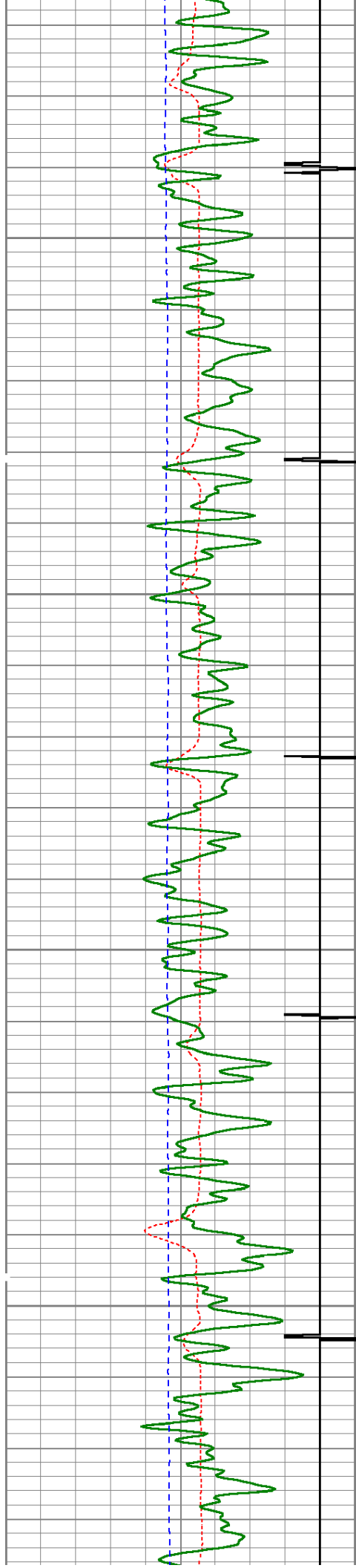
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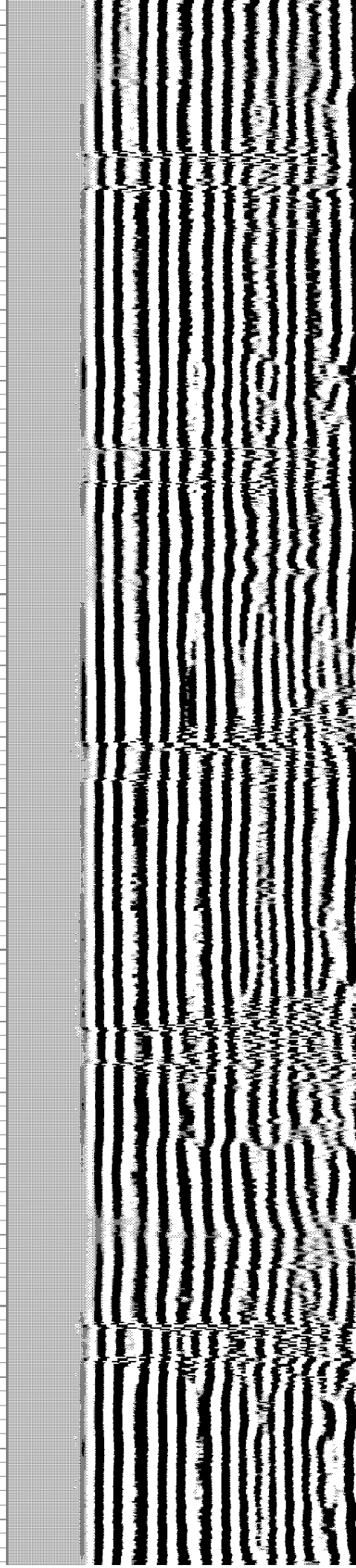
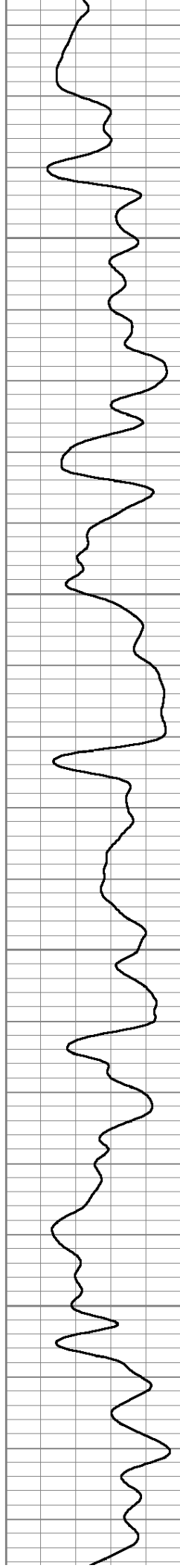


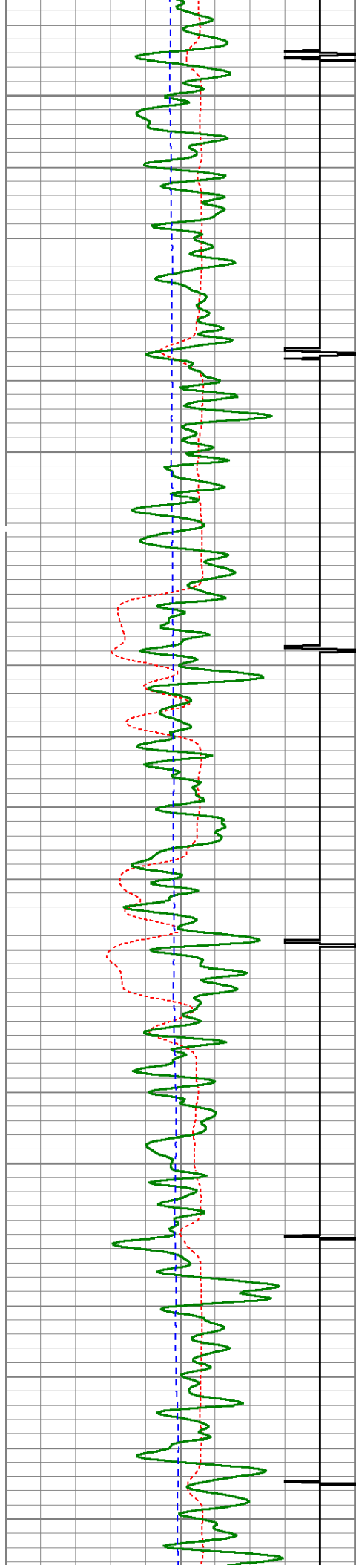
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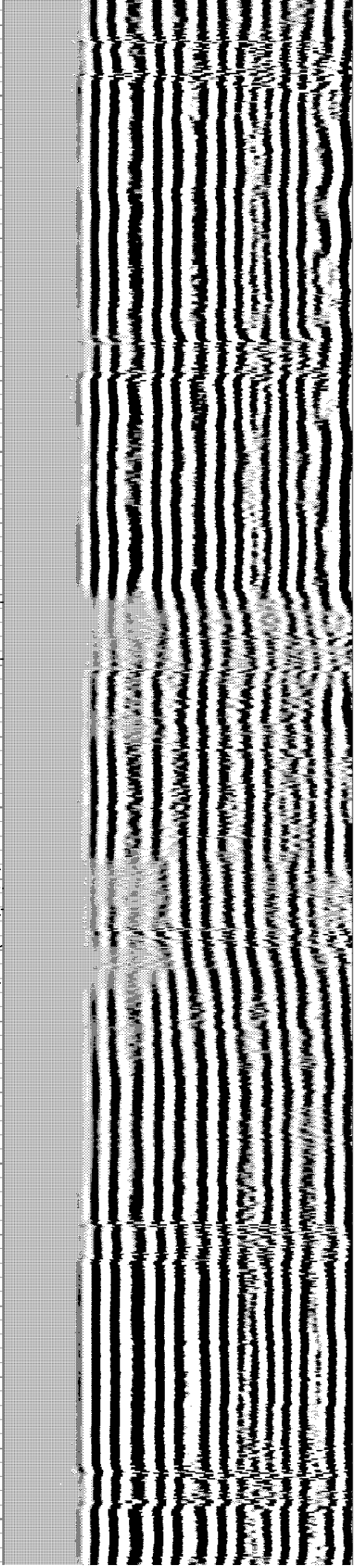
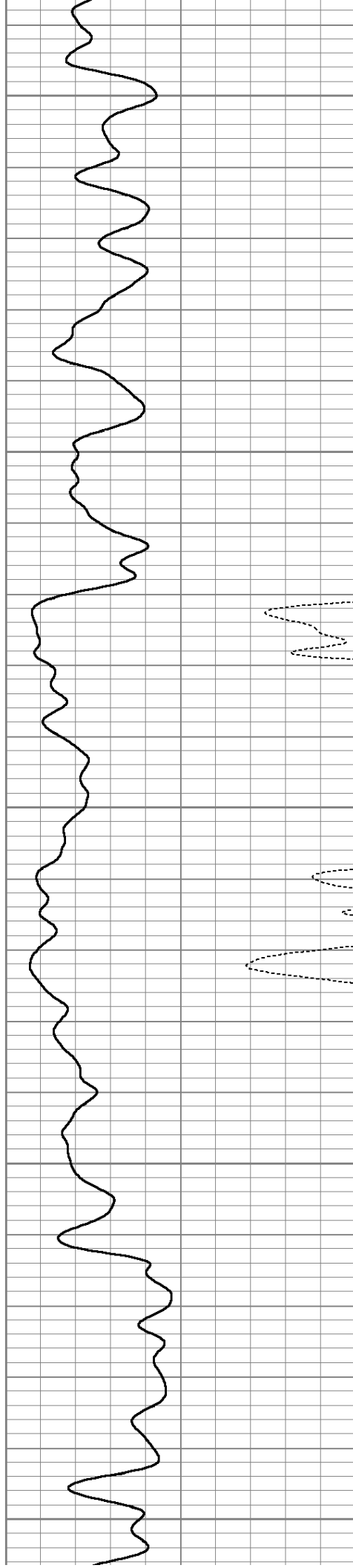
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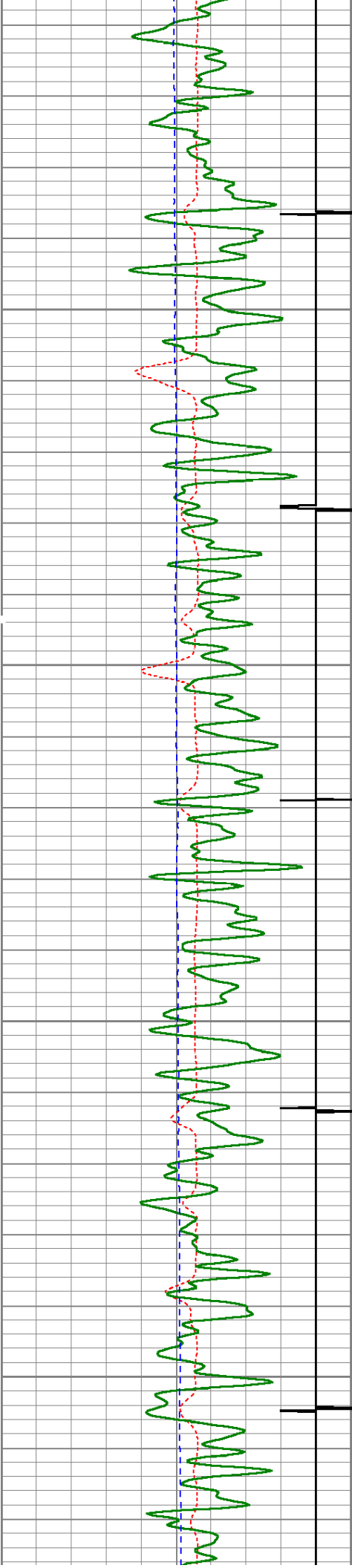
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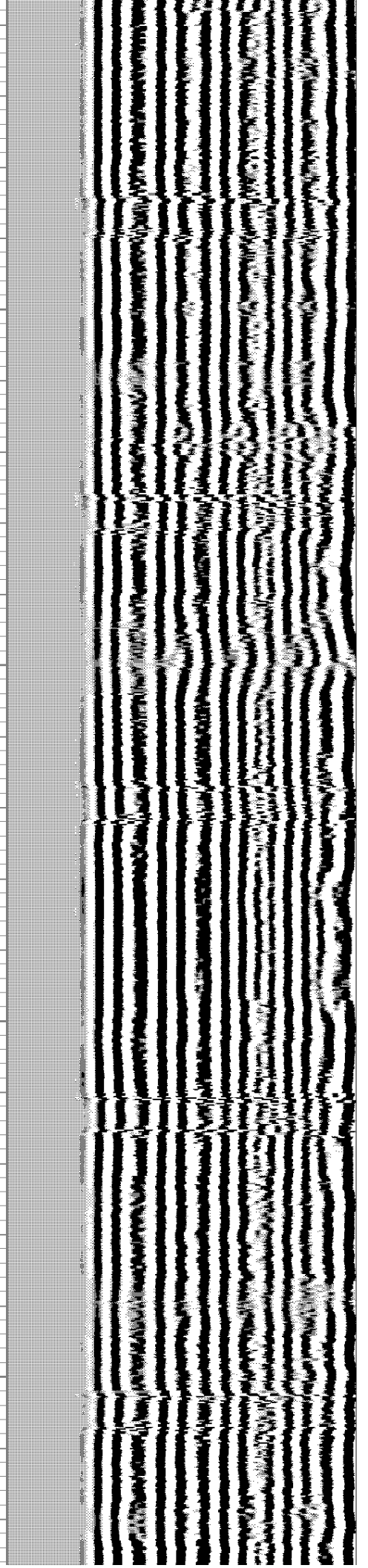
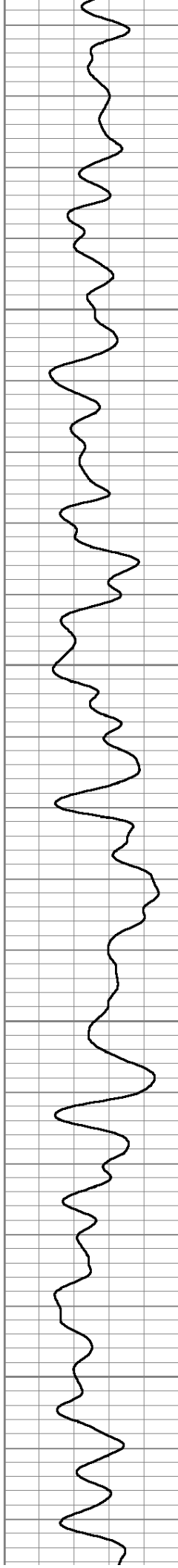


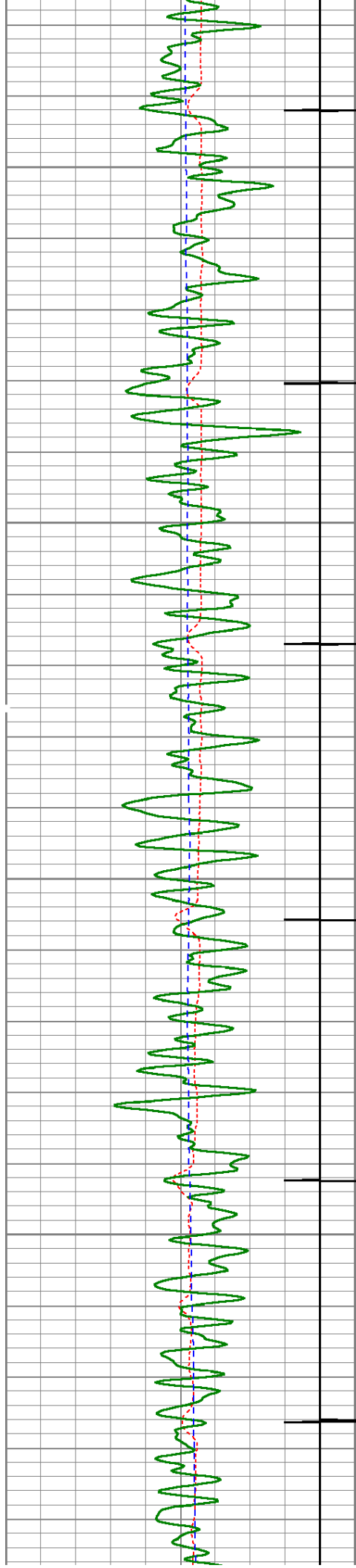
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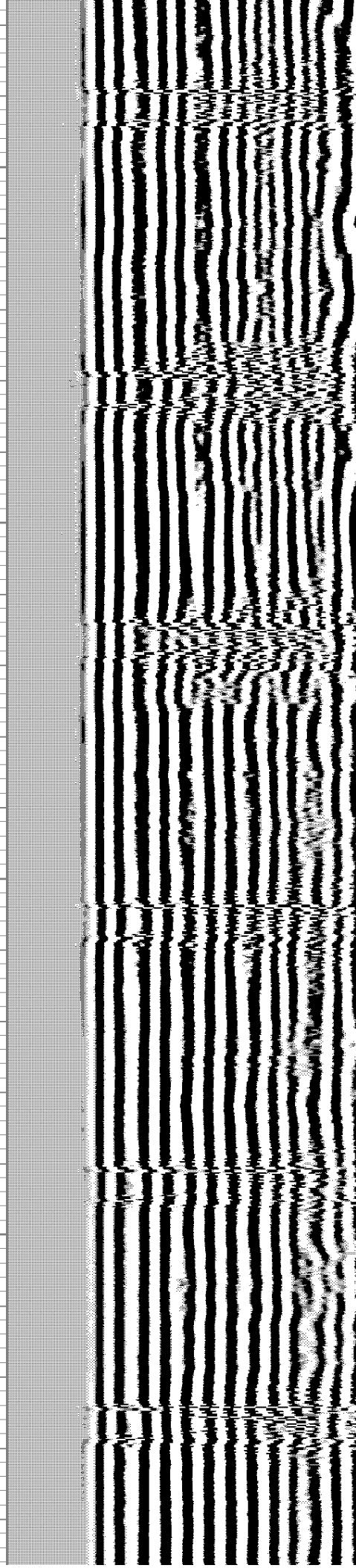


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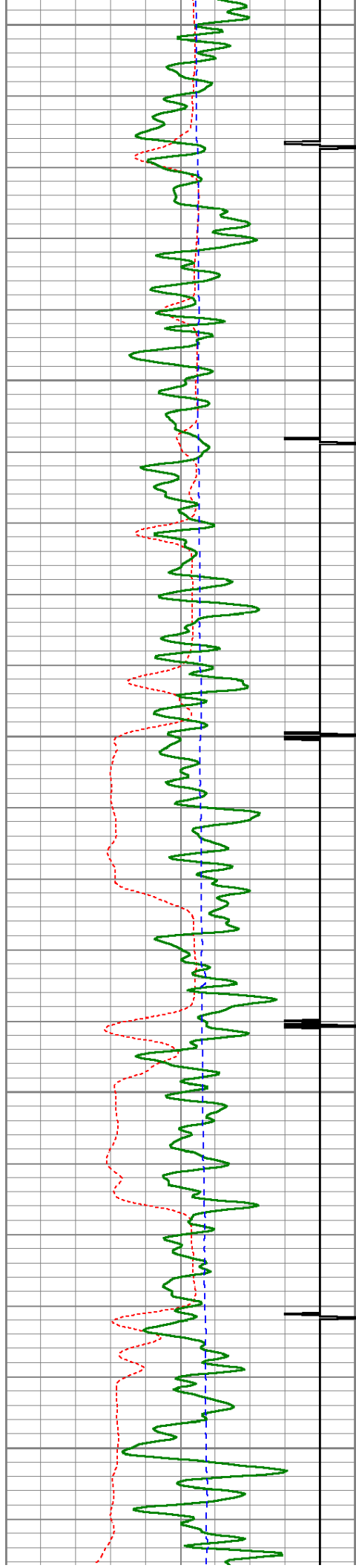
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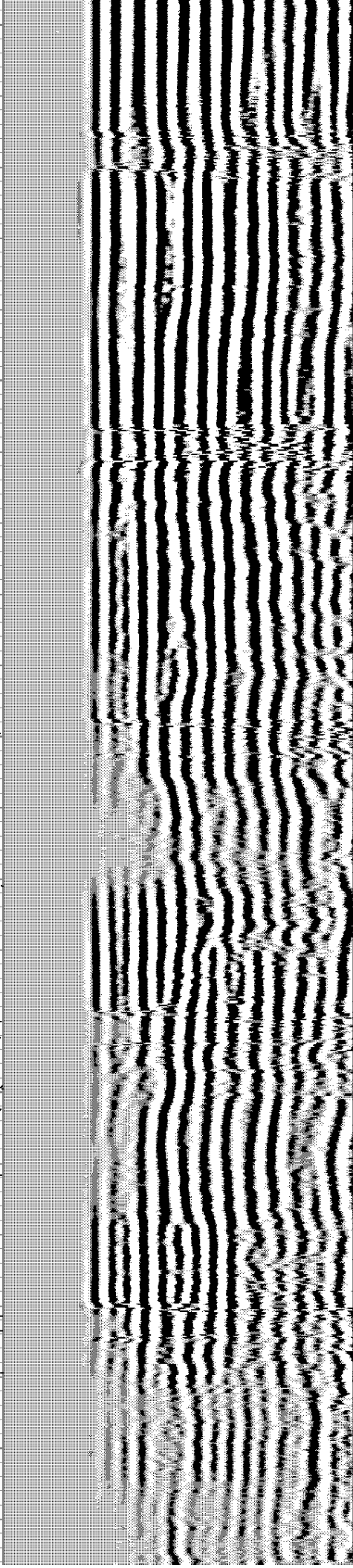
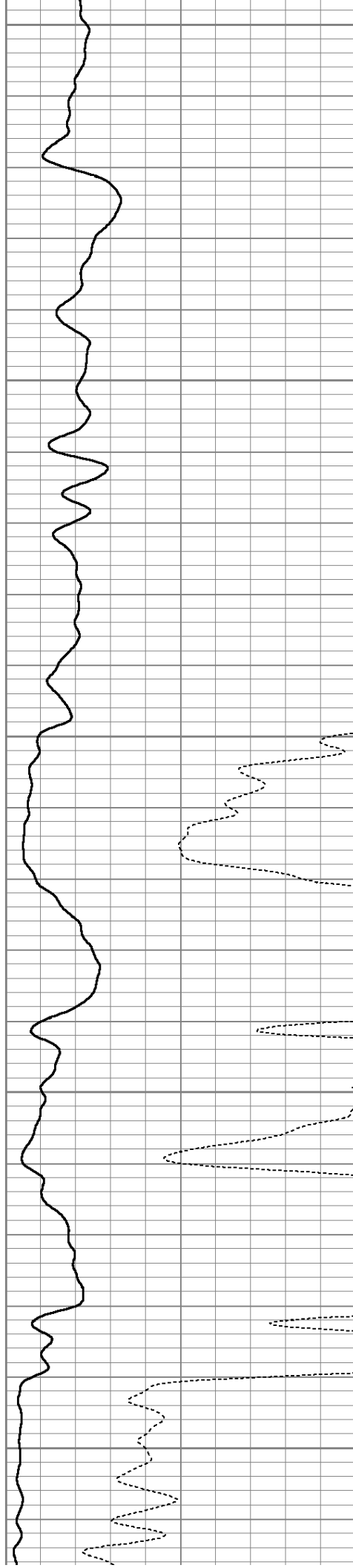
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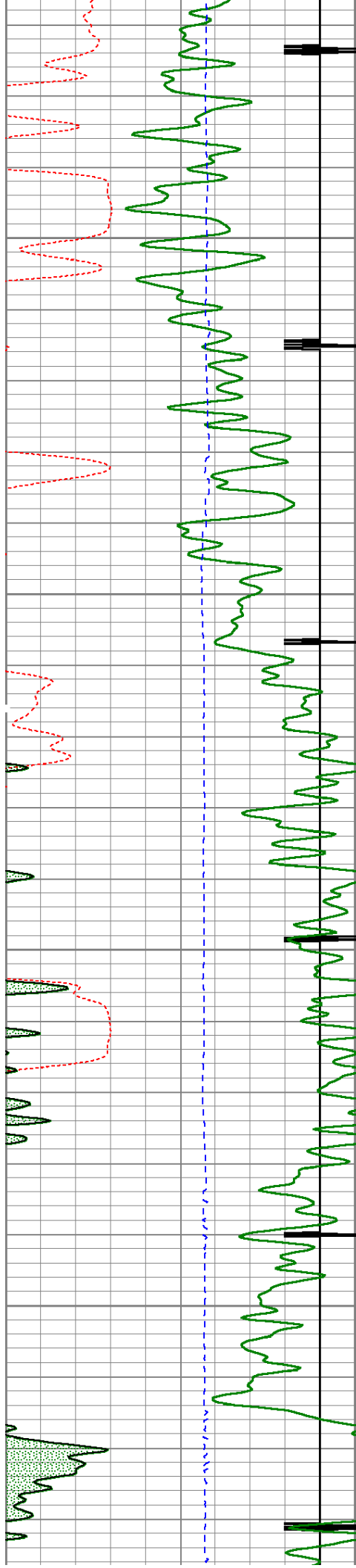
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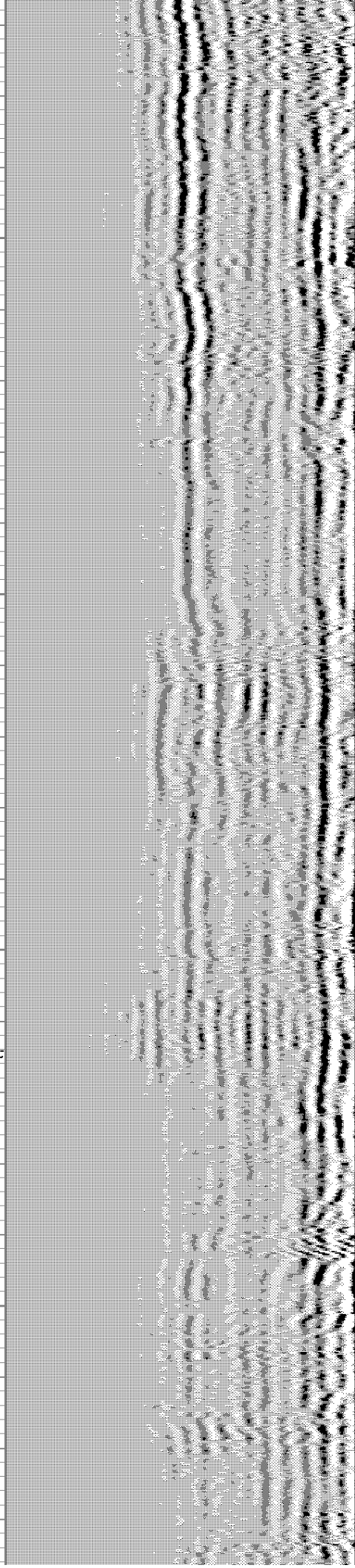
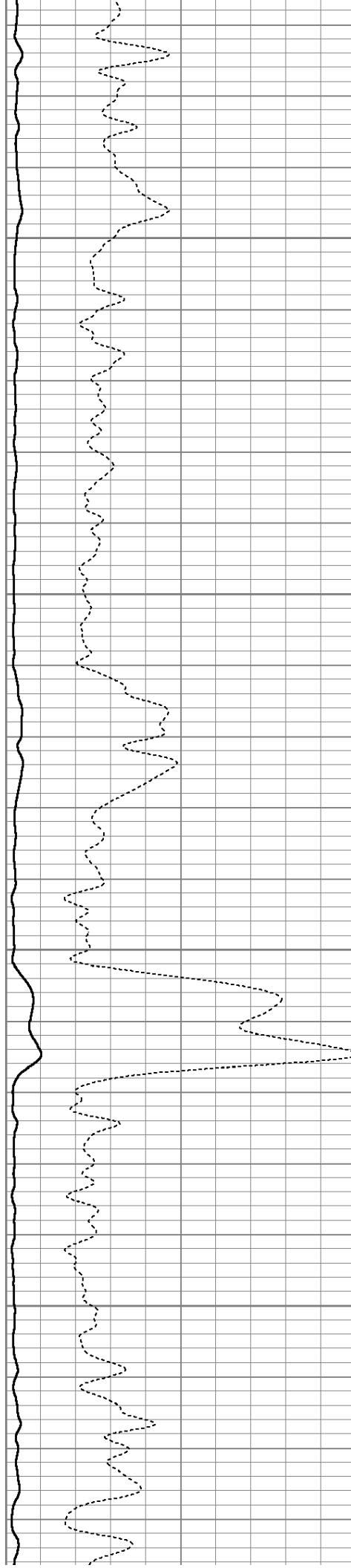


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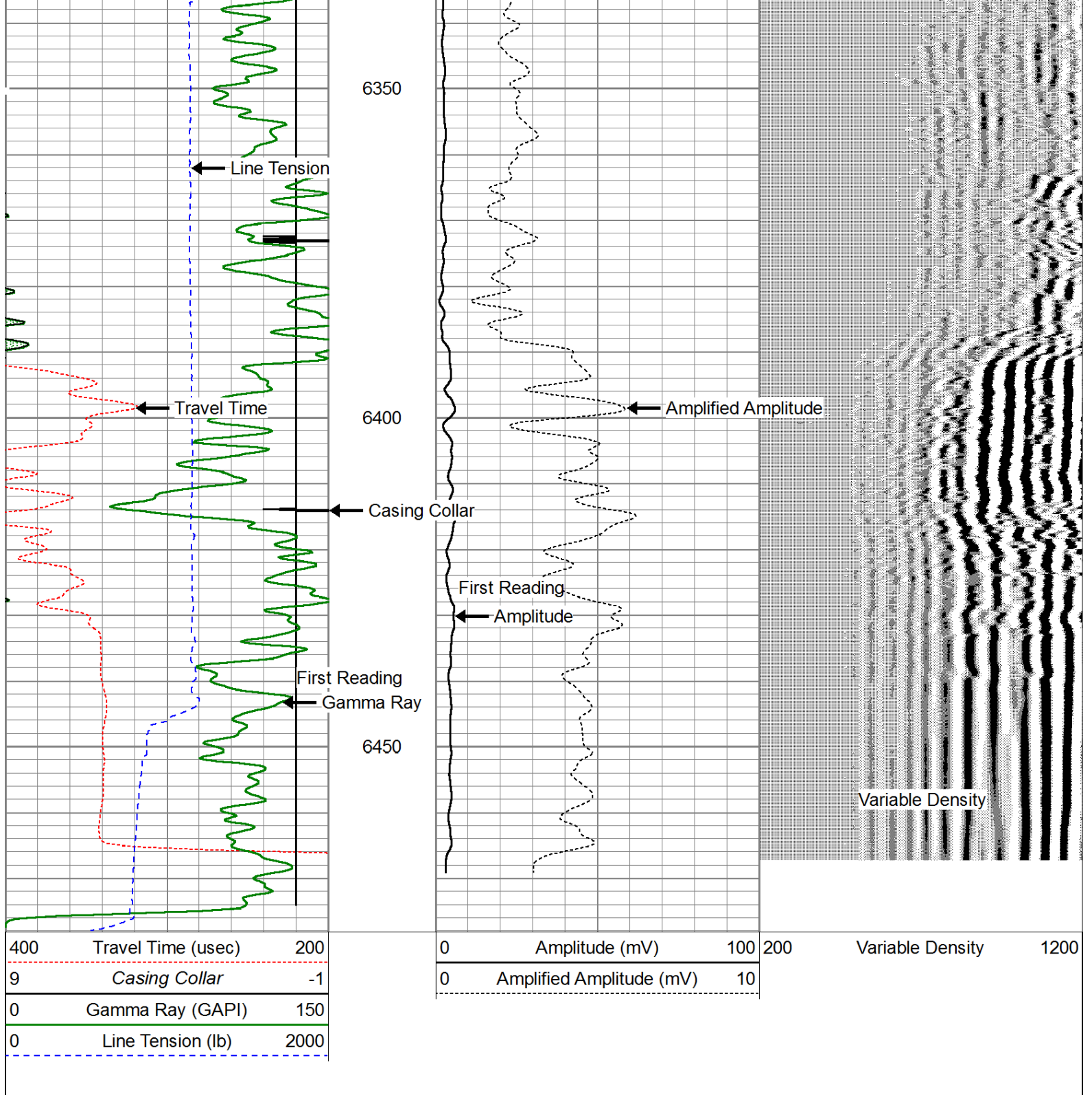
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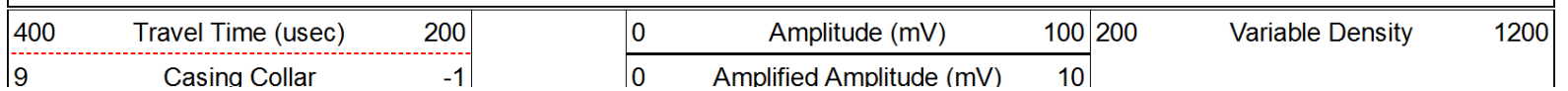




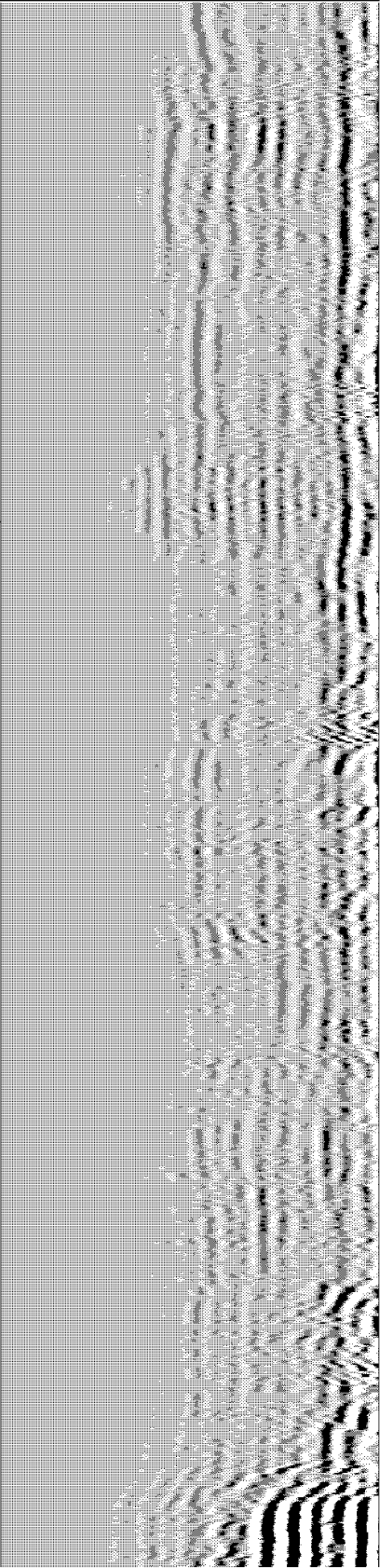
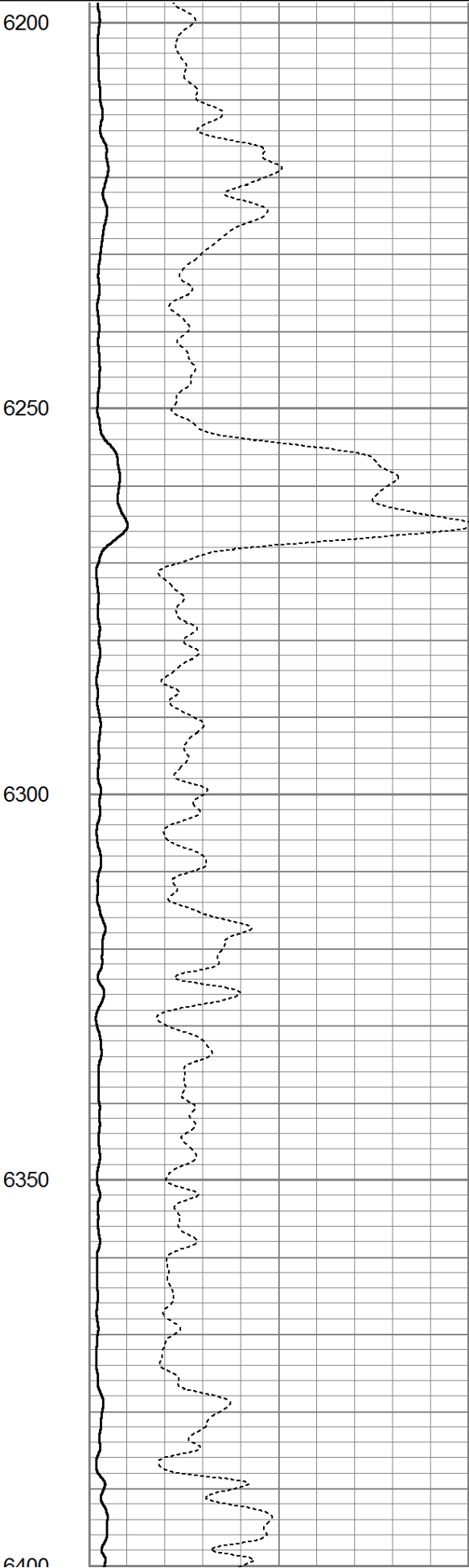
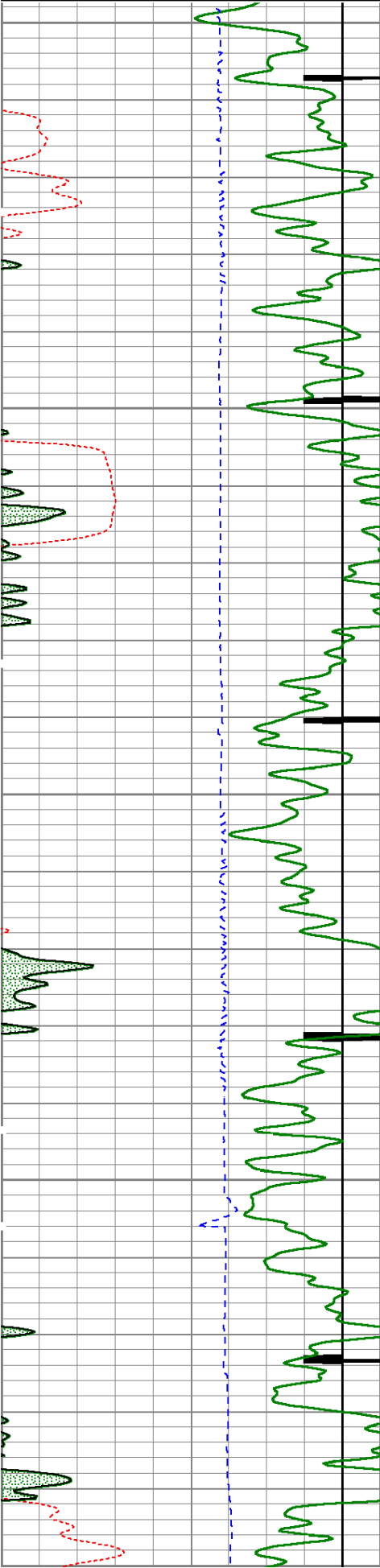


# Repeat Pass ( 0 PSI )

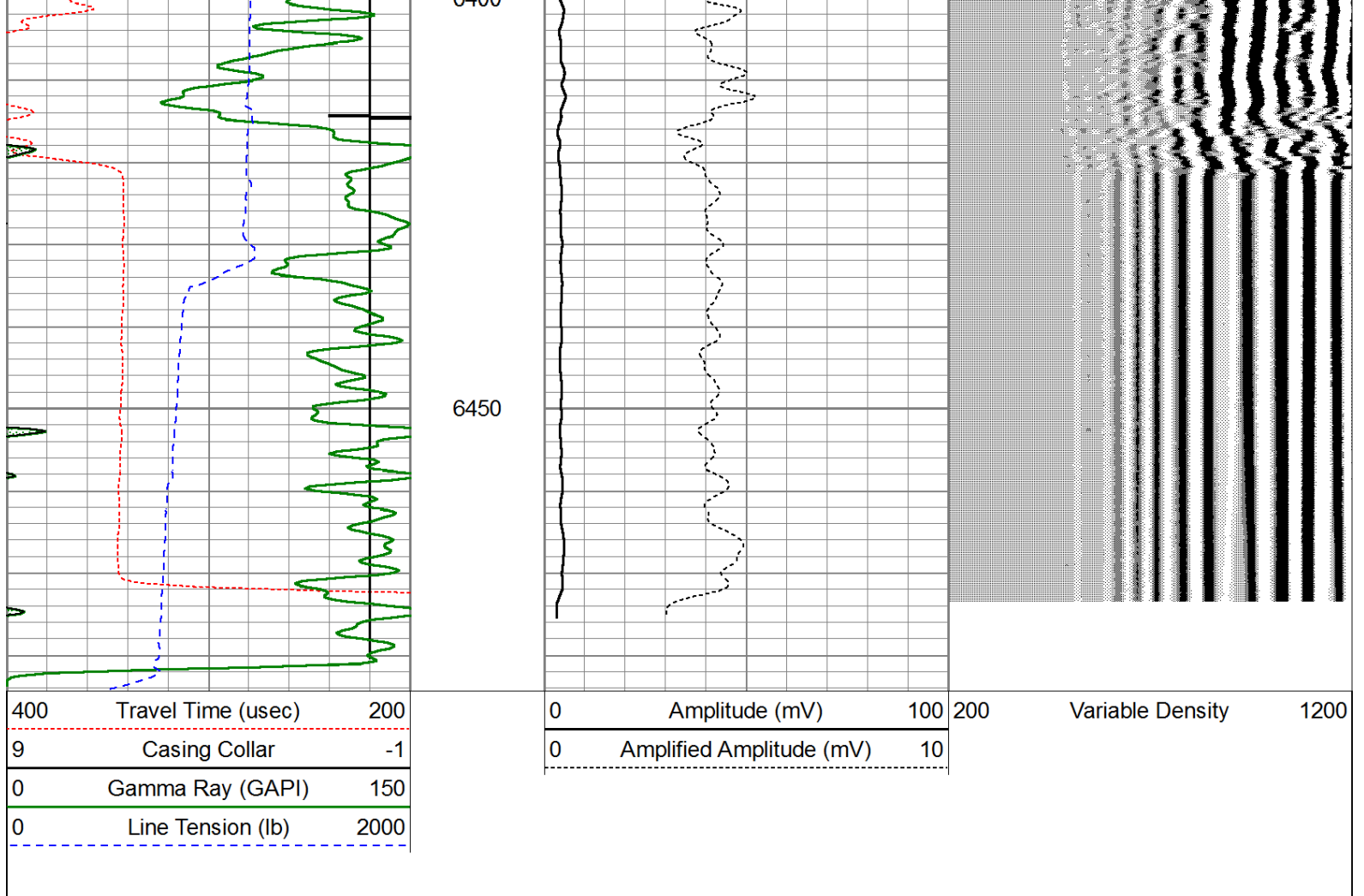
Database File: bonanza creek antelope 11-41-33hnc\_cbl.db  
 Dataset Pathname: pass3  
 Presentation Format: cblprobe  
 Dataset Creation: Mon May 19 15:29:38 2014 by Log 0  
 Charted by: Depth in Feet scaled 1:240



0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000







### Calibration Report

Database File: bonanza creek antelope 11-41-33hnc\_cbl.db  
Dataset Pathname: pass5  
Dataset Creation: Mon May 19 15:38:05 2014 by Log 0

### Gamma Ray Calibration Report

Serial Number: 111111  
Tool Model: Probe275  
Performed: Sun Apr 06 08:54:14 2014

Calibrator Value: 1022.0 GAPI

Background Reading: 82.4 cps  
Calibrator Reading: 1474.8 cps

Sensitivity: 0.7340 GAPI/cps

### Temperature Calibration Report

Serial Number: 111111  
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: 101254  
 Tool Model: Probe  
 Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 0.007 ft

Master Calibration, performed Mon May 19 09:49:51 2014:

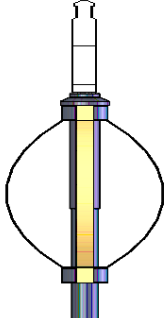
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.030	0.724	1.000	71.921	102.212	3.033
CAL	-0.025	0.776				
5'	-0.021	0.670	1.000	71.921	102.566	3.185
SUM						
S1	-0.032	0.756	0.000	100.000	126.902	4.068
S2	0.023	0.743	0.000	100.000	139.017	-3.236
S3	0.041	0.703	0.000	100.000	150.996	-6.223
S4	0.036	0.664	0.000	100.000	159.263	-5.729
S5	0.055	0.676	0.000	100.000	160.971	-8.783
S6	0.062	0.721	0.000	100.000	151.676	-9.367
S7	0.057	0.746	0.000	100.000	145.163	-8.295
S8	0.015	0.747	0.000	100.000	136.659	-2.080

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	-0.025	0.776	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



Tool Joint	Tool Joint Depth (ft)	Tool Joint Diagram	Tool Joint Description	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)
WVF3FT	11.84		RBT-Probe (101254) 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 (111111) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00

Dataset: bonanza creek antelope 11-41-33hnc\_cbl.db: field/well/run1/pass5

Total Length: 20.28 ft

Total Weight: 197.00 lb

O.D. 2.75 in