



CEMENT BOND  
VARIABLE DENSITY LOG  
W/ GAMMA RAY/ CCL

Company		BONANZA CREEK ENERGY	
Well		Antelope Y44-U41-18HNC	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # :	
SEC		TWP	
RGE		Elevation	
Permanent Datum		Kelly Bushing	
Log Measured From		Kelly Bushing	
Drilling Measured From		Ground Level 17' APD	
Date		March 24th, 2014	
Run Number		ONE	
Depth Driller		N/A	
Depth Logger		6658'	
Bottom Logged Interval		6645'	
Top Log Interval		Surface	
Open Hole Size		8.75"	
Type Fluid		WATER	
Density / Viscosity		8.33	
Max. Recorded Temp.		N/A	
Estimated Cement Top		1750'	
Time Well Ready		0800	
Time Logger on Bottom		0830	
Equipment Number		12029	
Location		Brighton, CO	
Recorded By		Robert Grissom	
Witnessed By		Tim Guana	
Borehole Record		Tubing Record	
Run Number		Bit	
ONE		13.5"	
TWO		8.75"	
THREE		6.025"	
Casing Record		Size	
Surface String		9.625"	
Prot. String		7"	
Production String		4.5"	
Liner		11.6"	

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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

Main Pass and Repeat Pass logged with ( 0 ) PSI

Thank You For Using Allied Wireline Services!!

303.659.4609



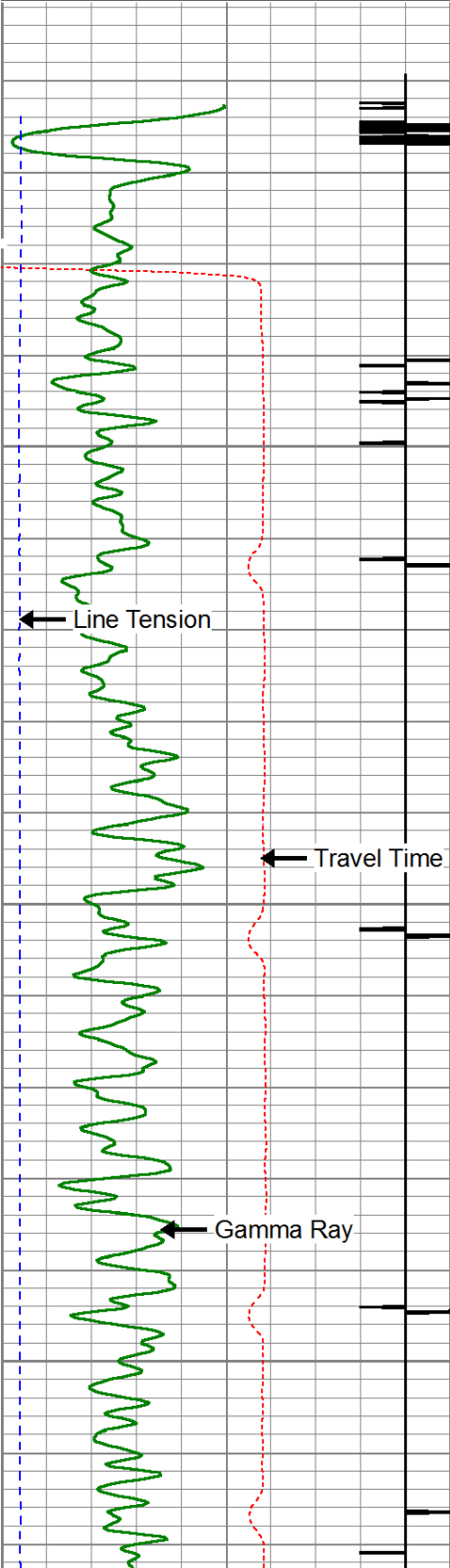
Main Pass (0 PSI)

Database File: bonanza creek- antelope y44-u41-18hnc\_cbl.db  
Dataset Pathname: pass3  
Presentation Format: cblprobe  
Dataset Creation: Mon Mar 24 08:39:40 2014 by Log SCH 120126  
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

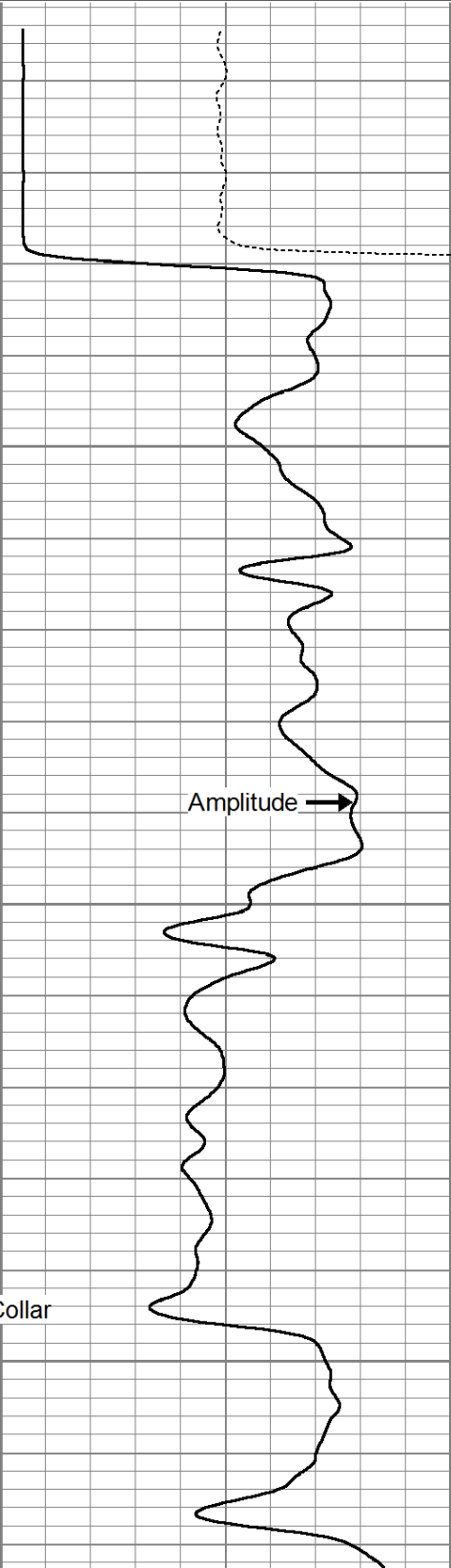
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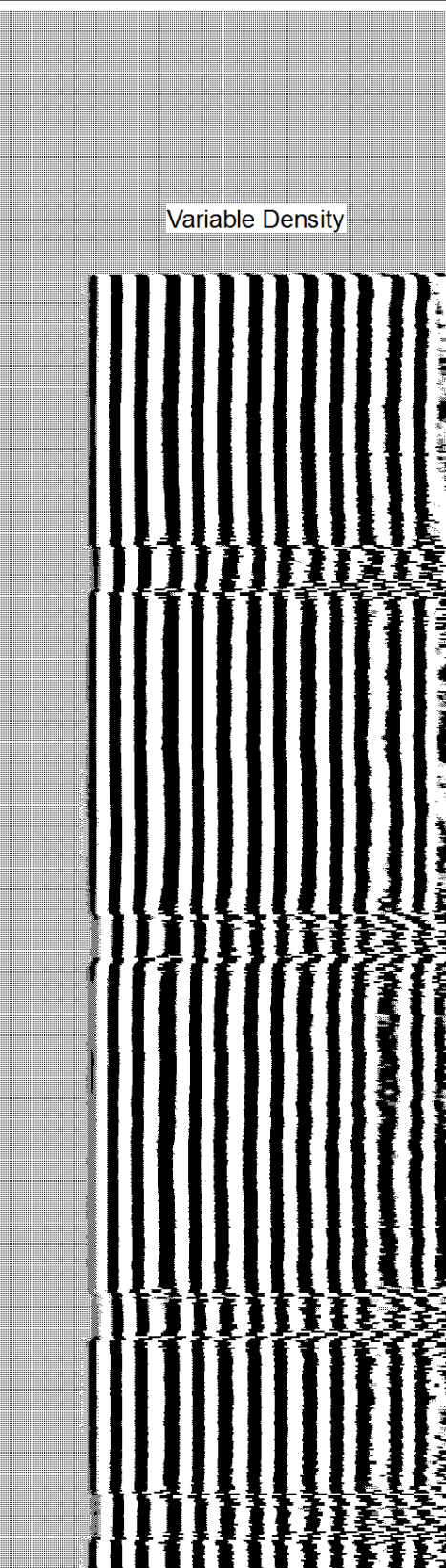
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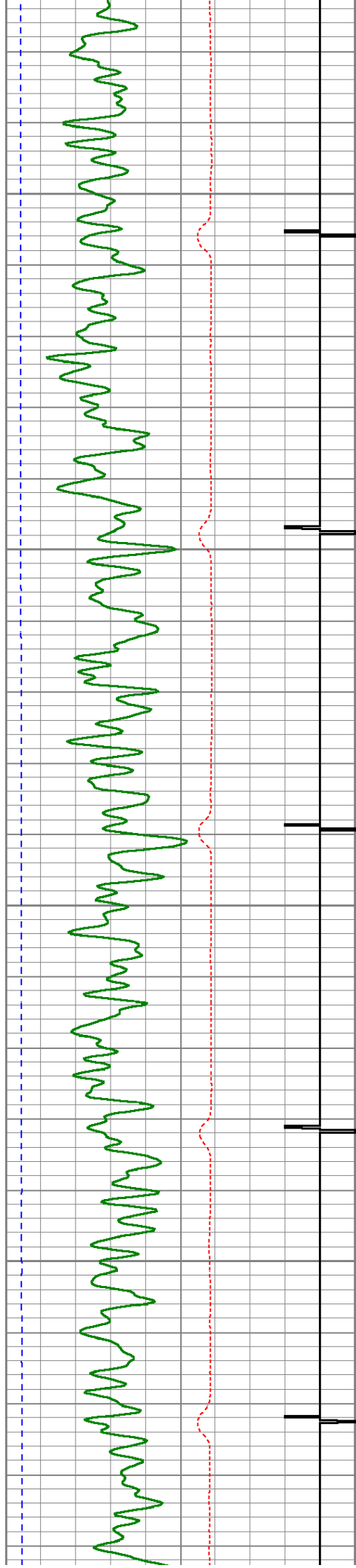
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Amplitude



Variable Density

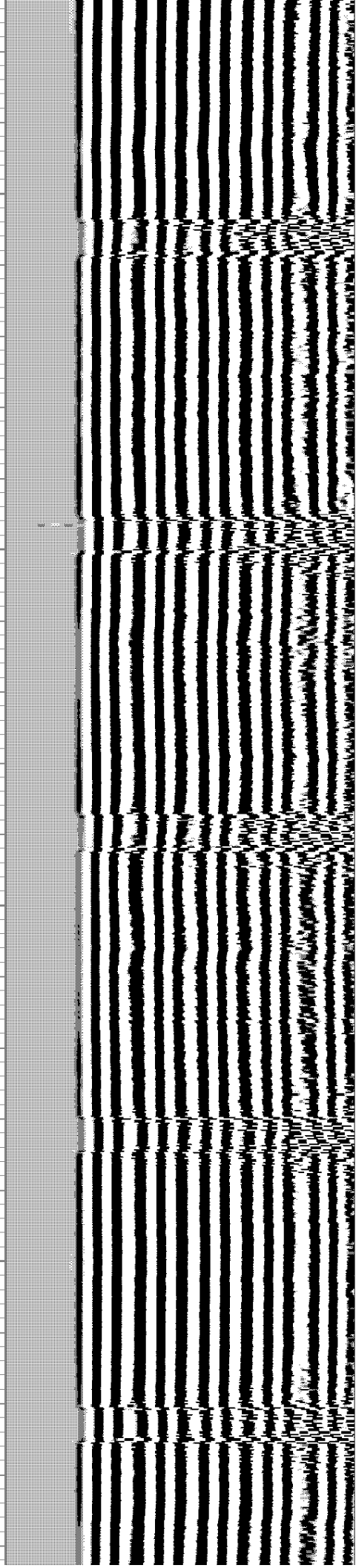
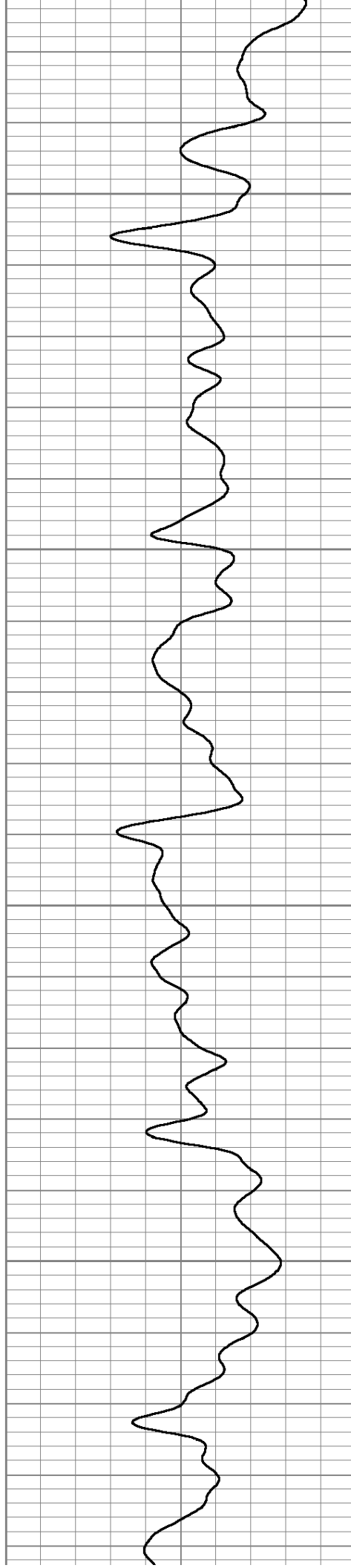


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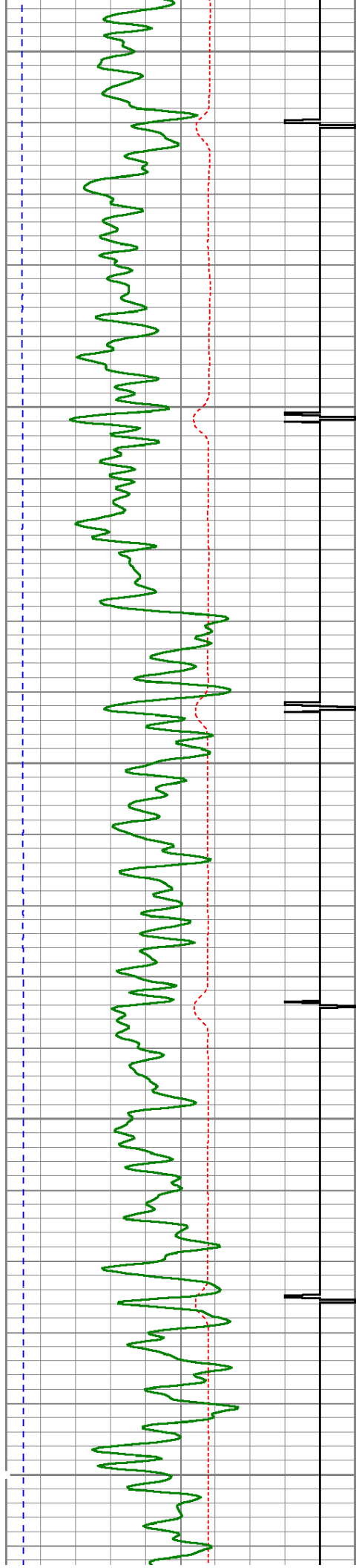
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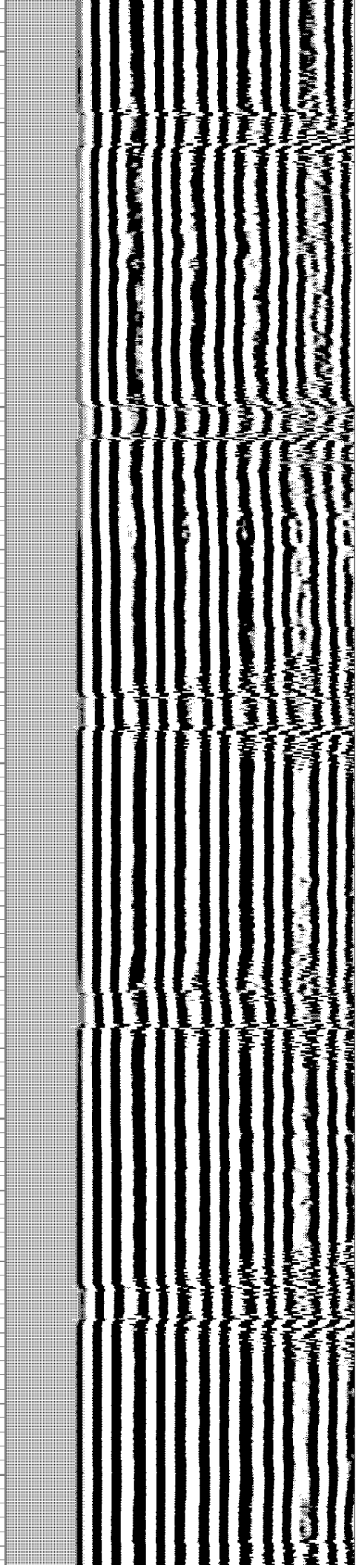
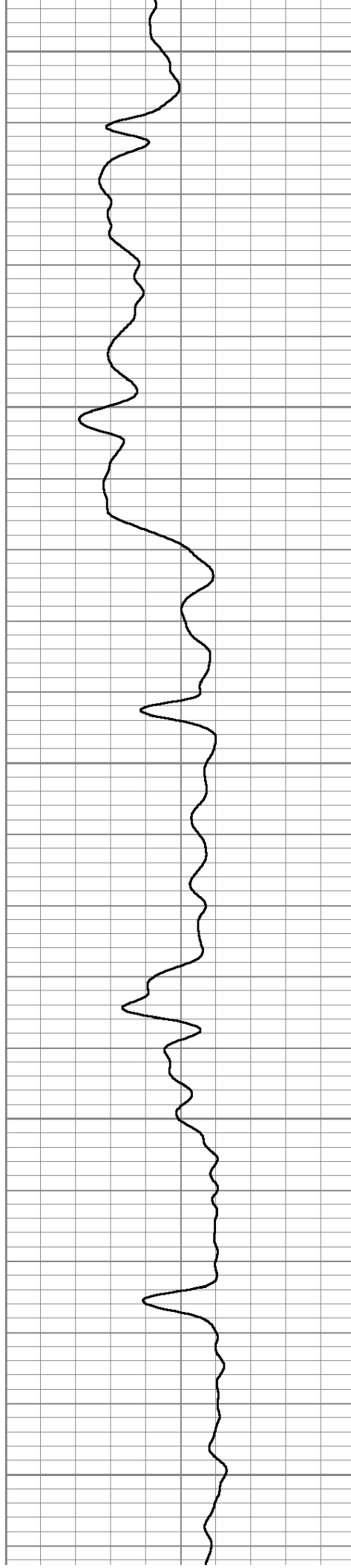
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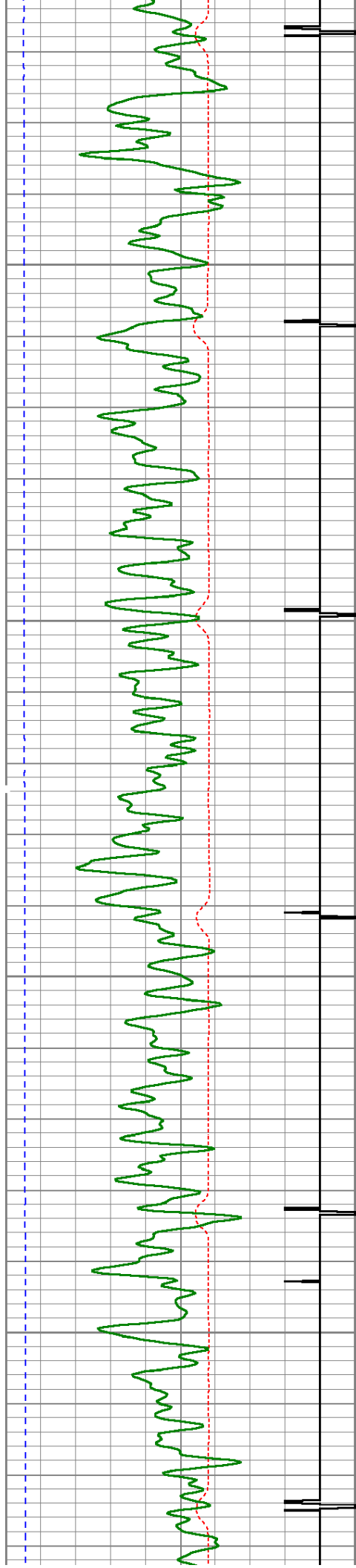
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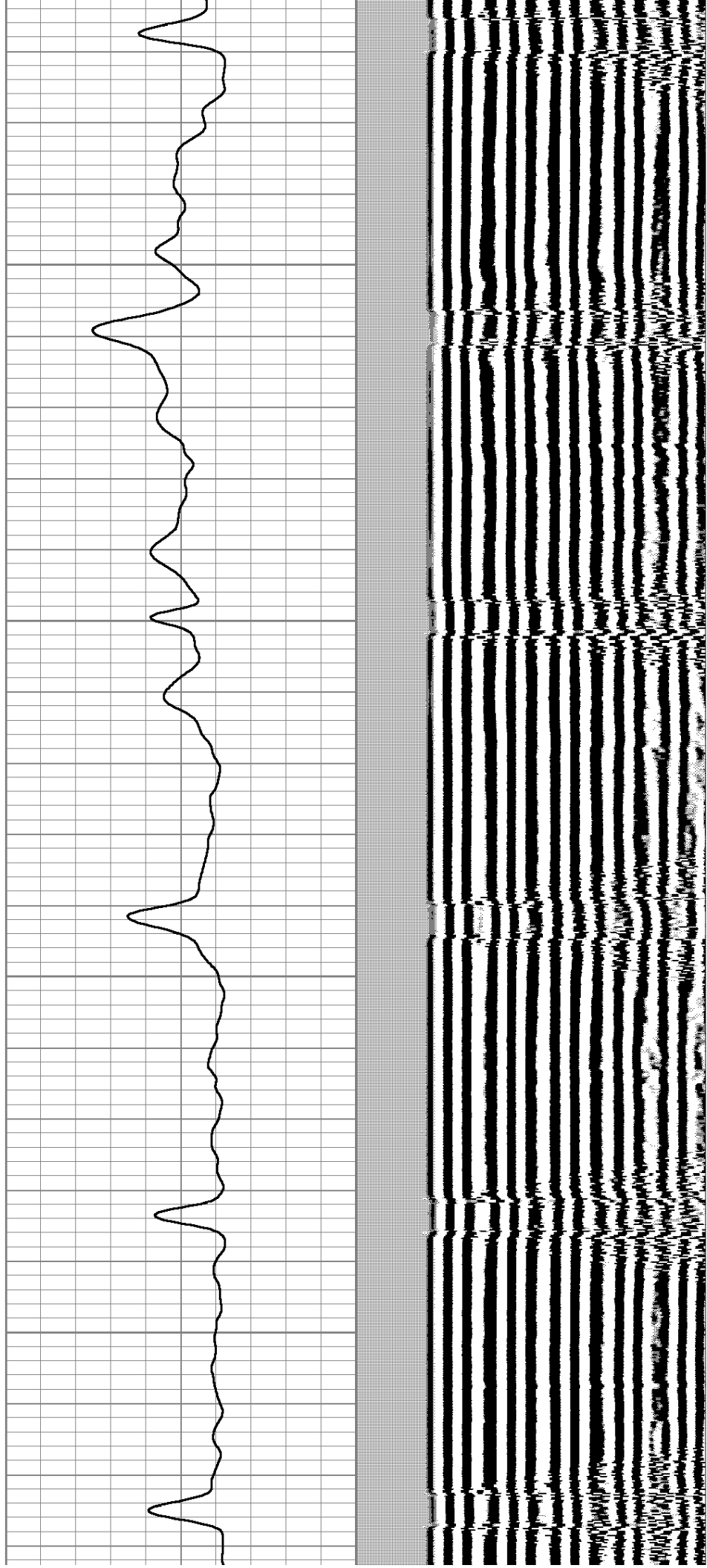


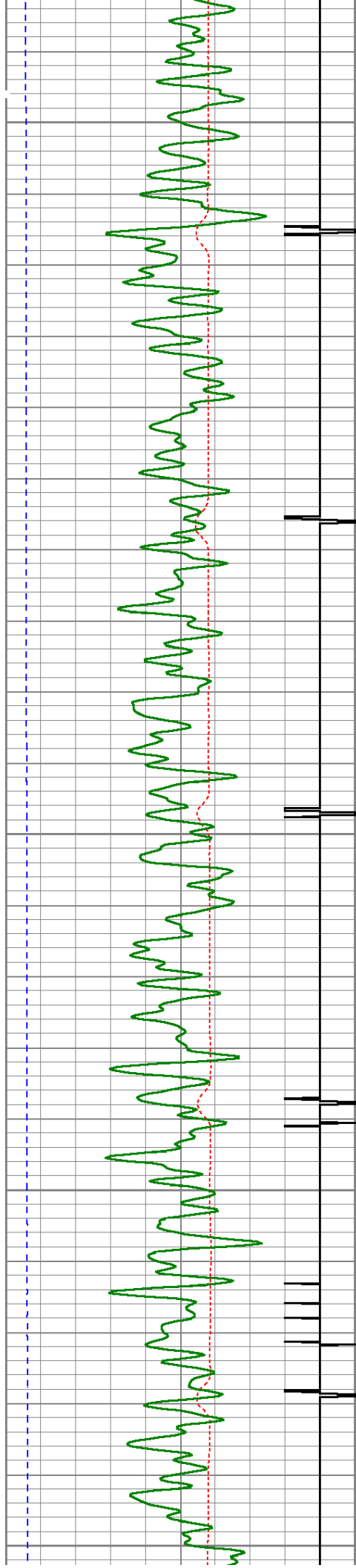
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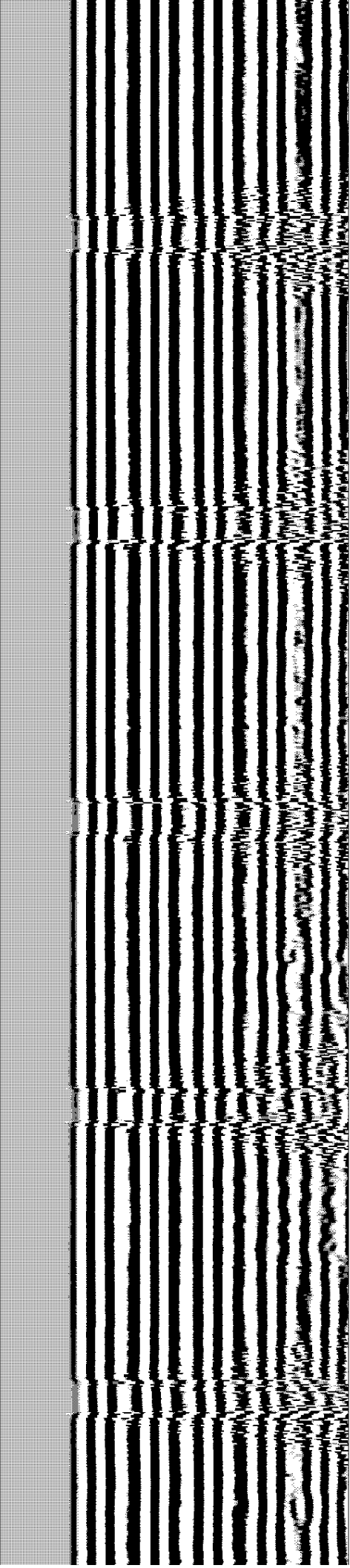
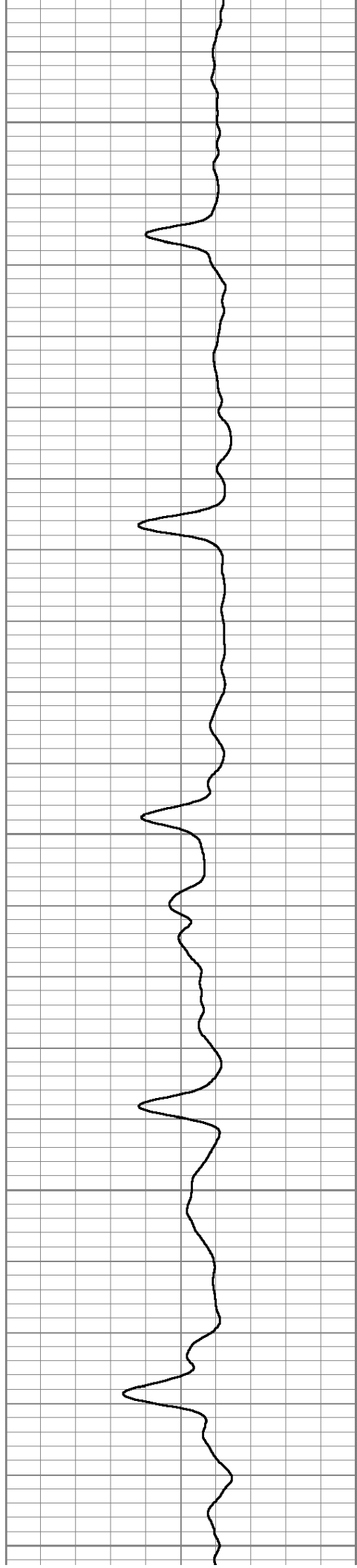
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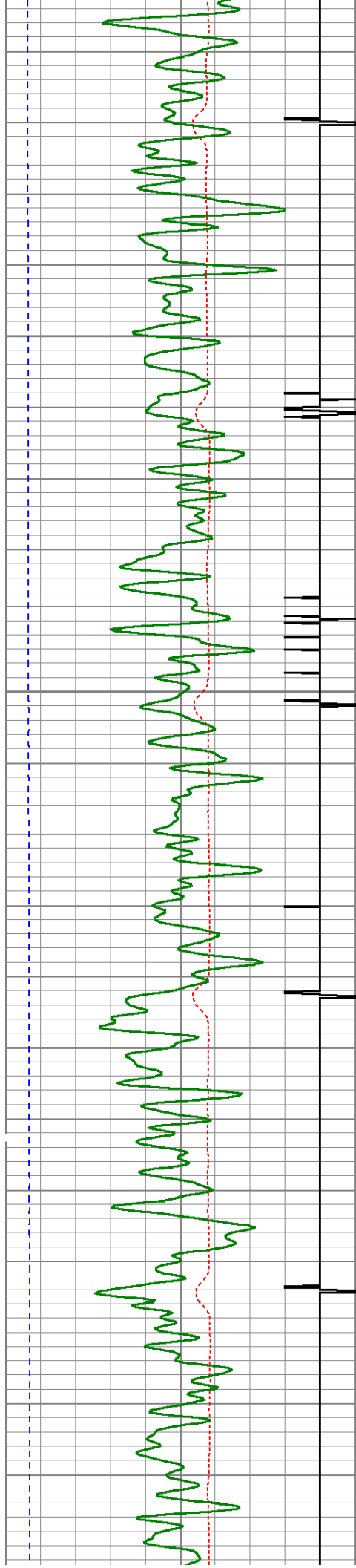
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1000

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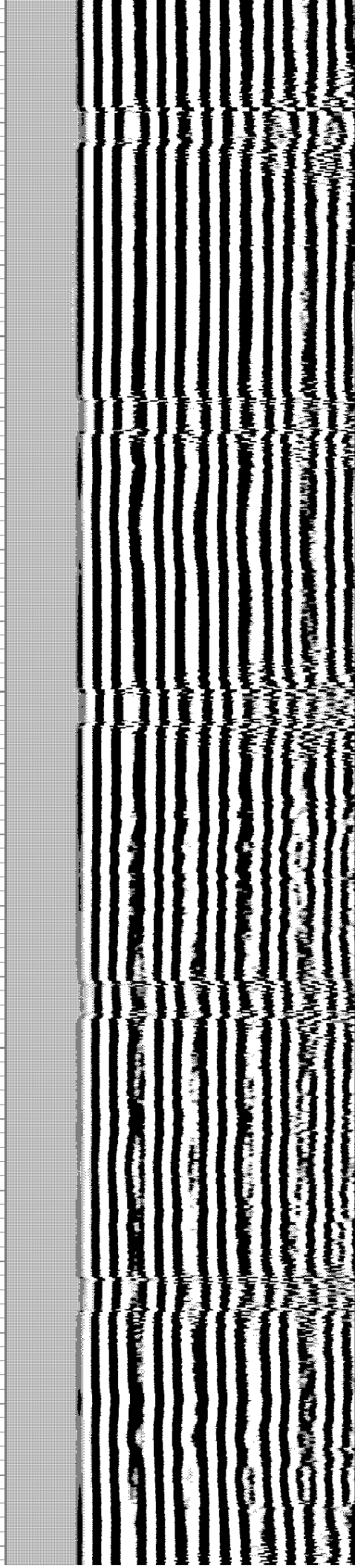
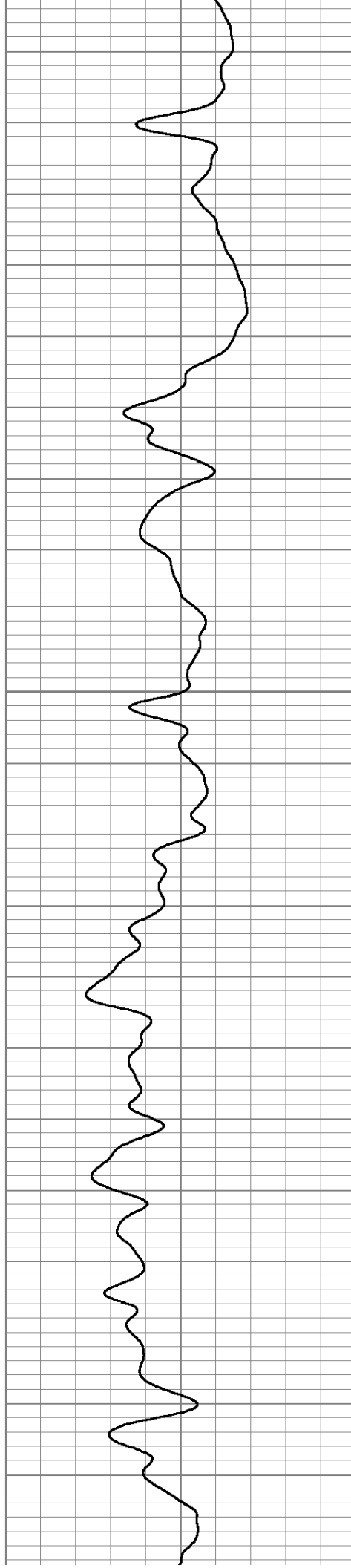


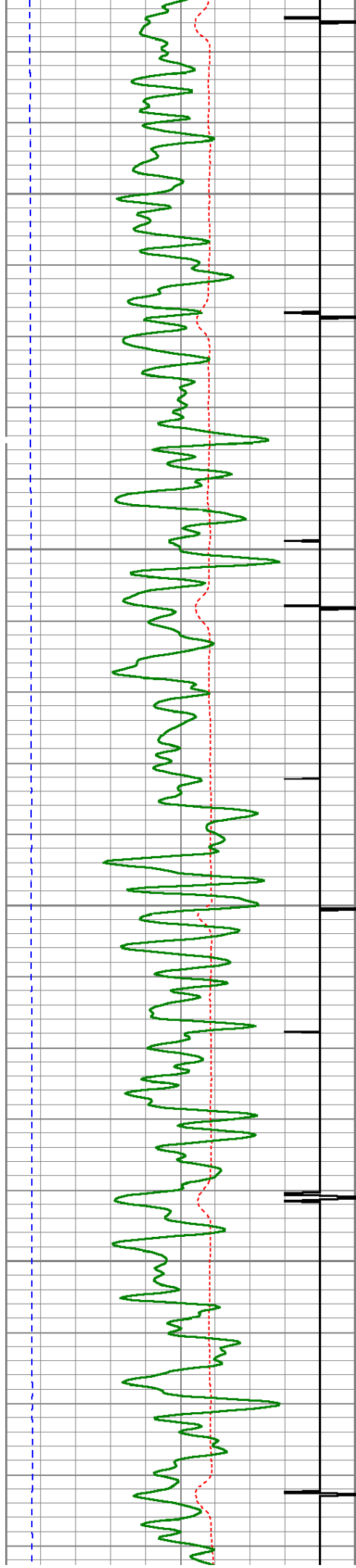
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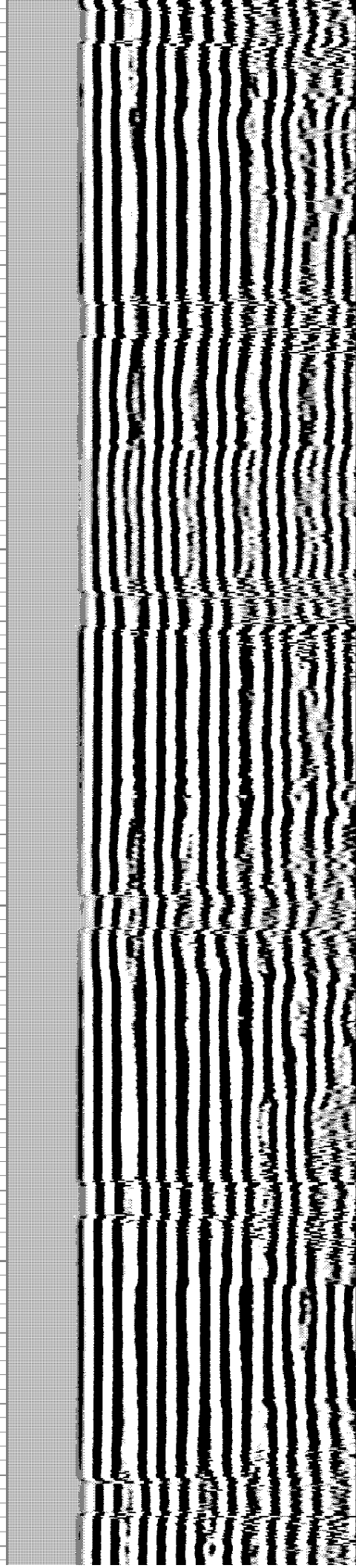
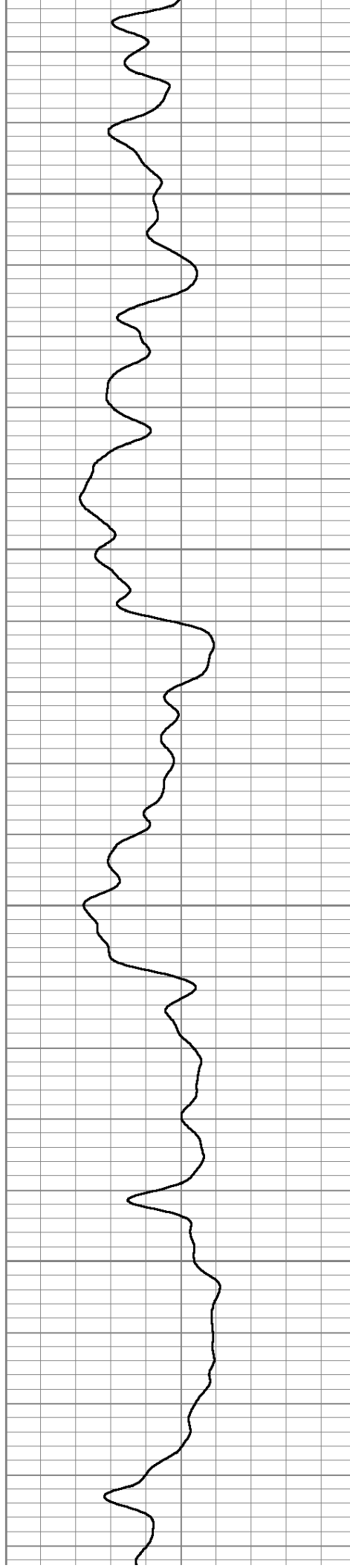


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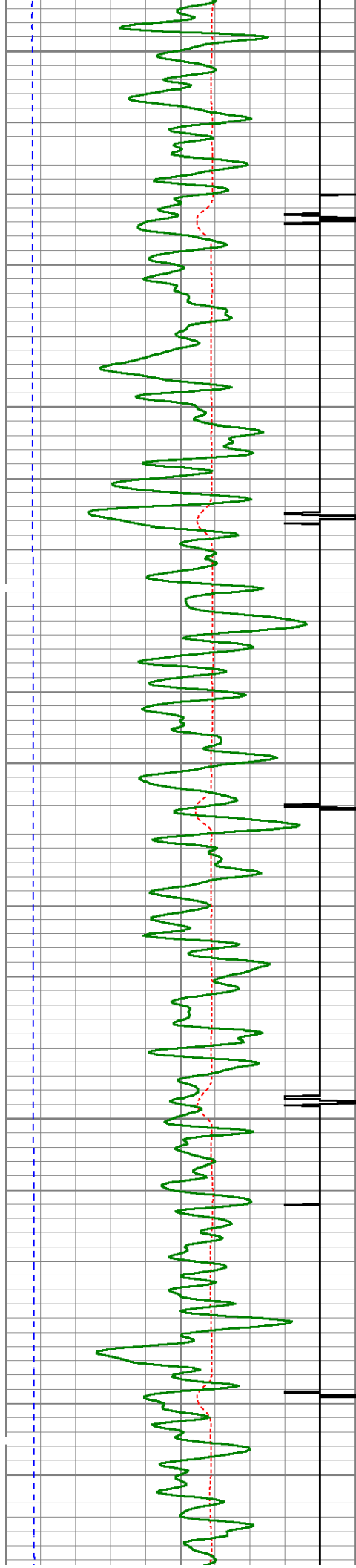
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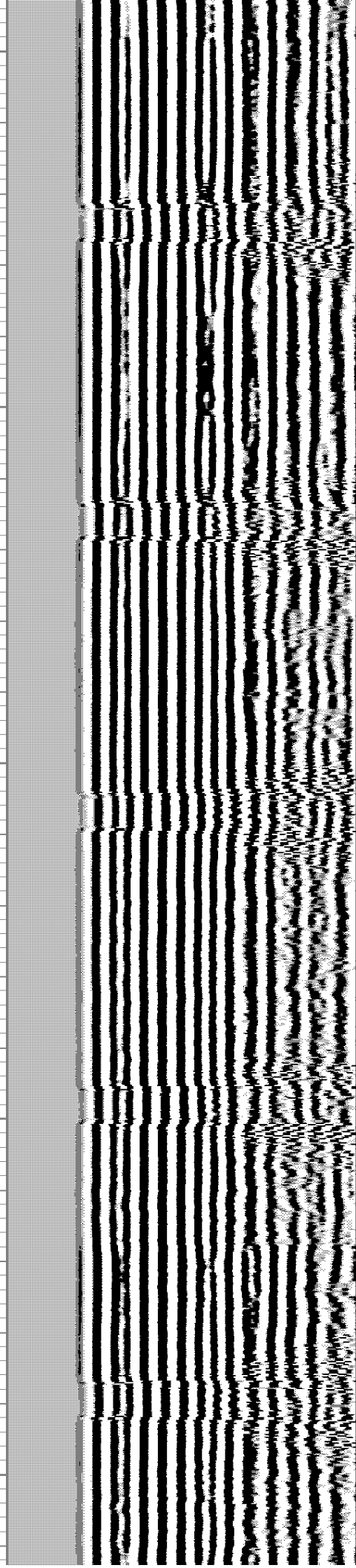
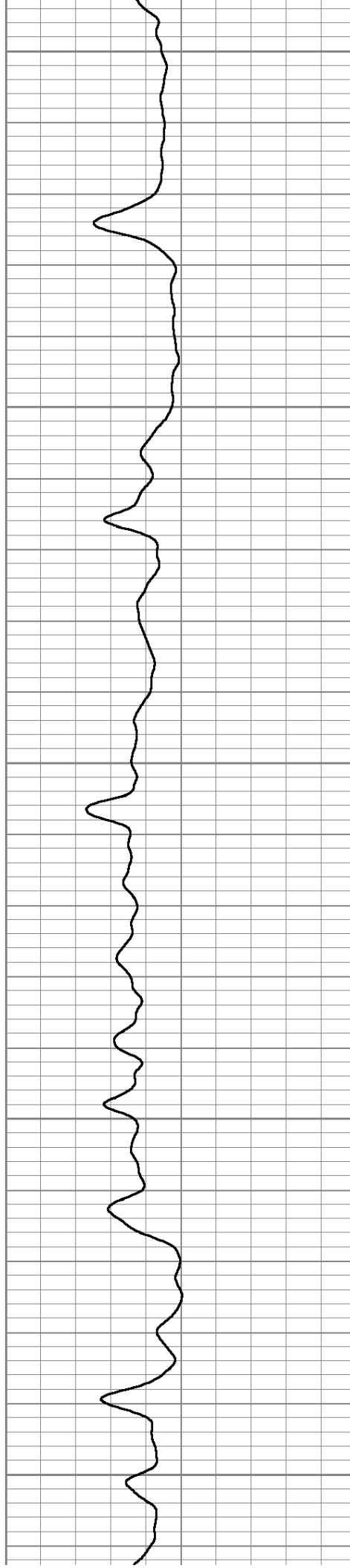
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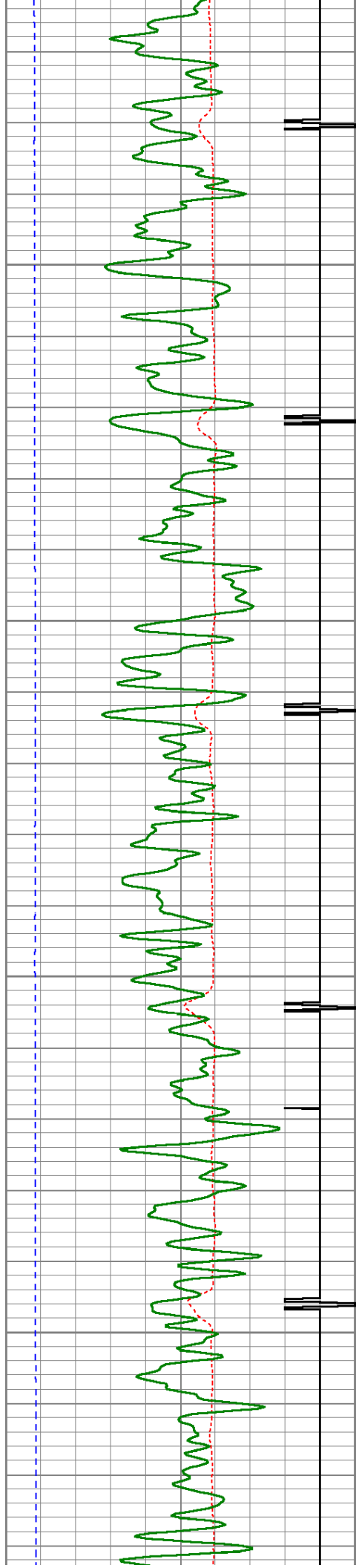
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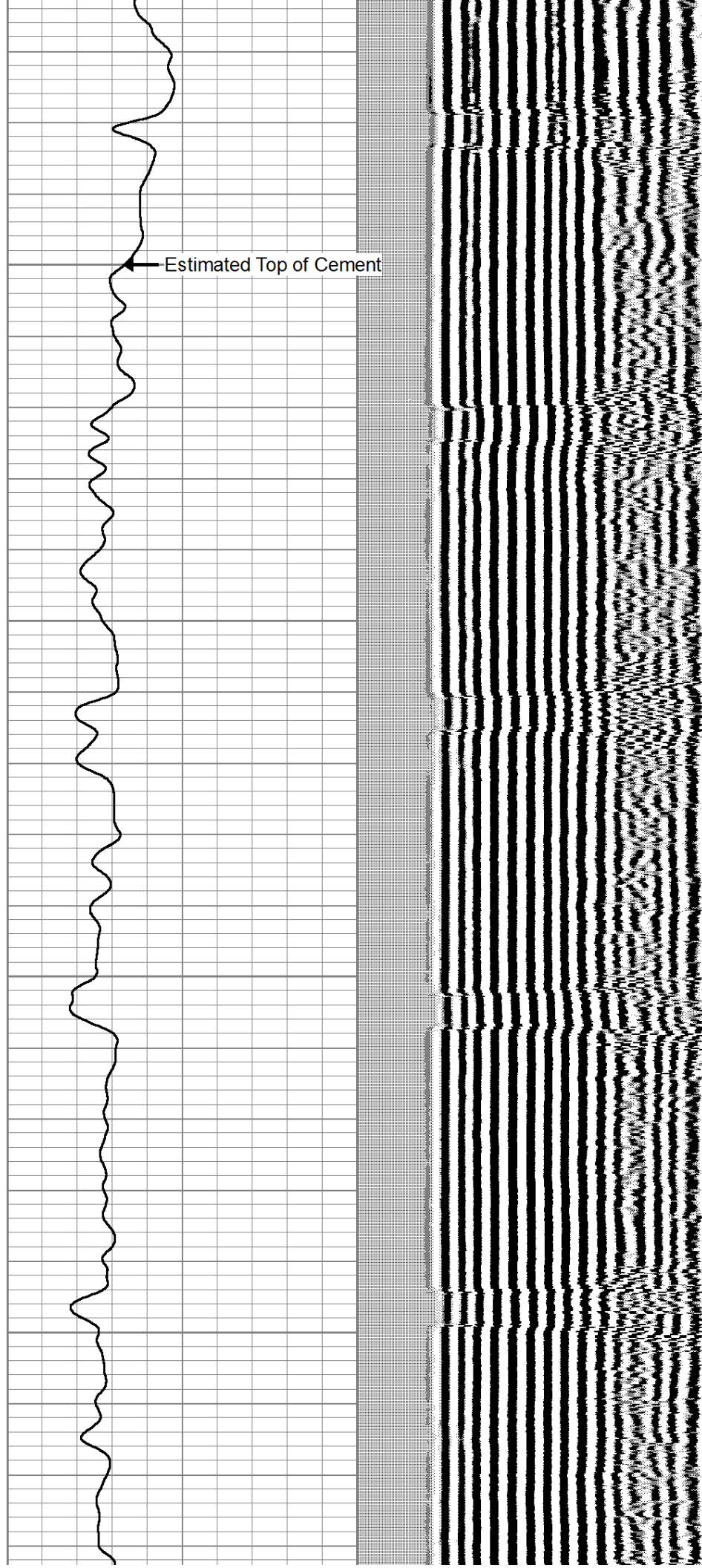


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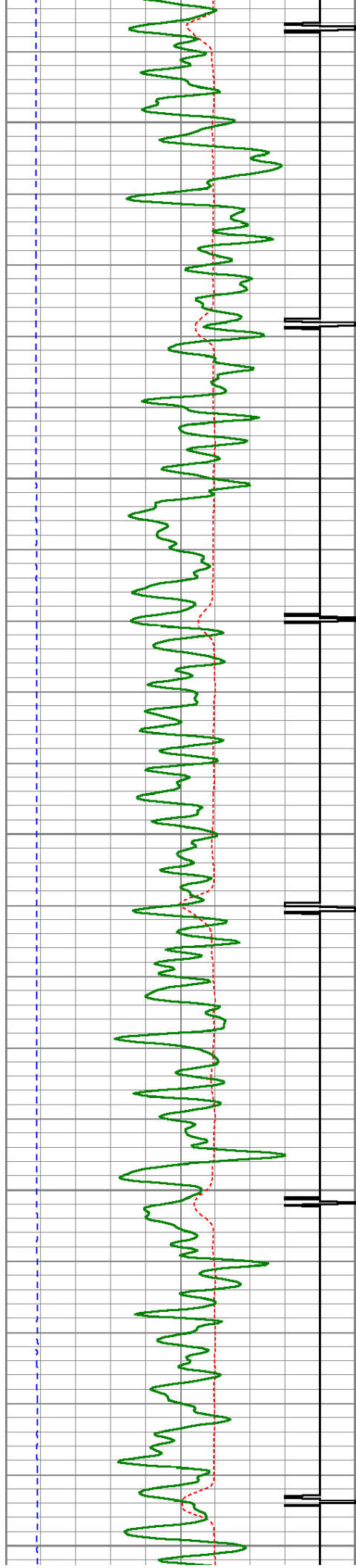
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1900



Estimated Top of Cement





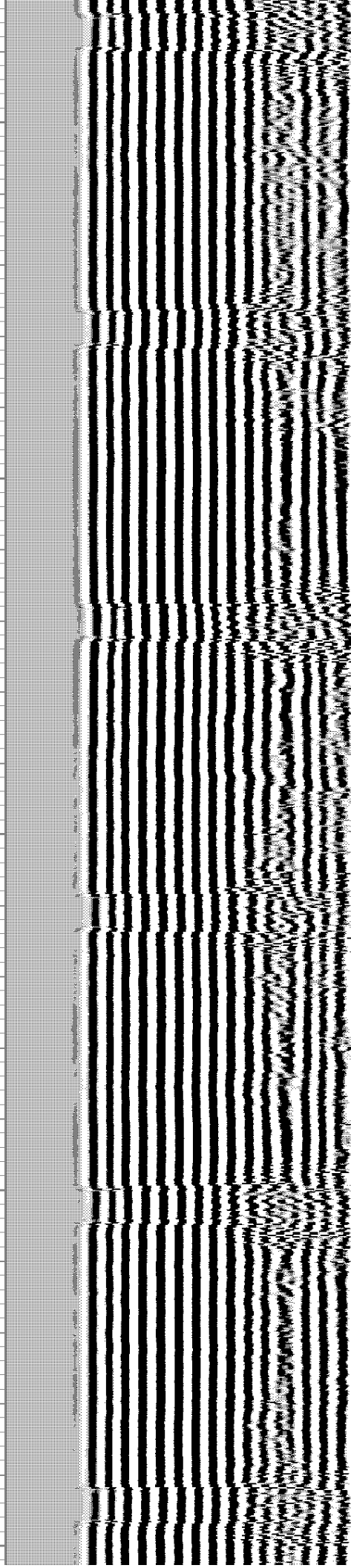
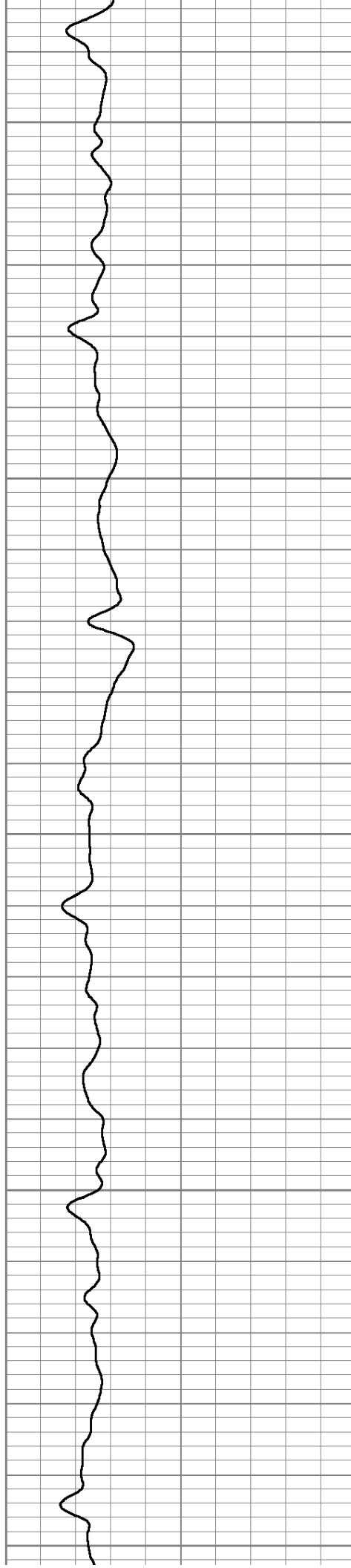
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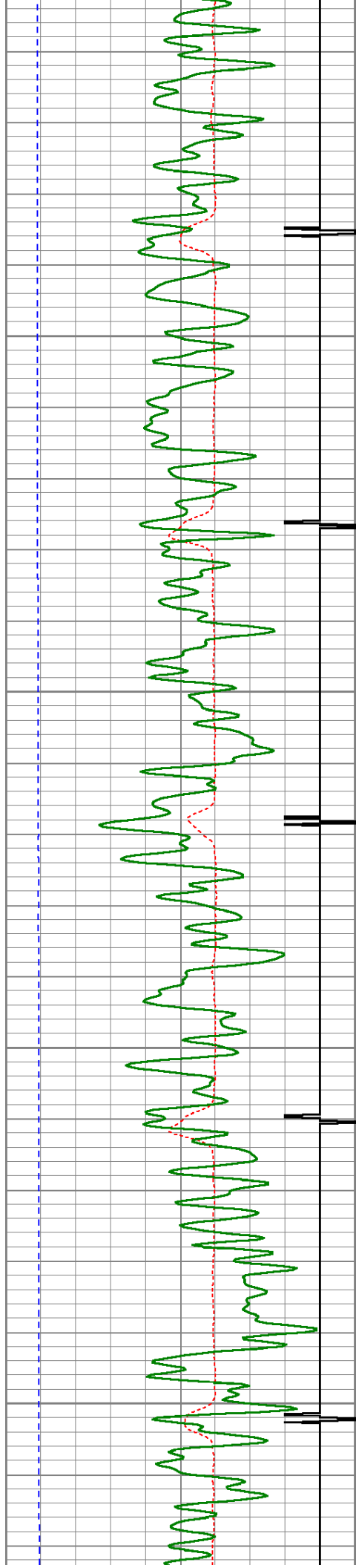
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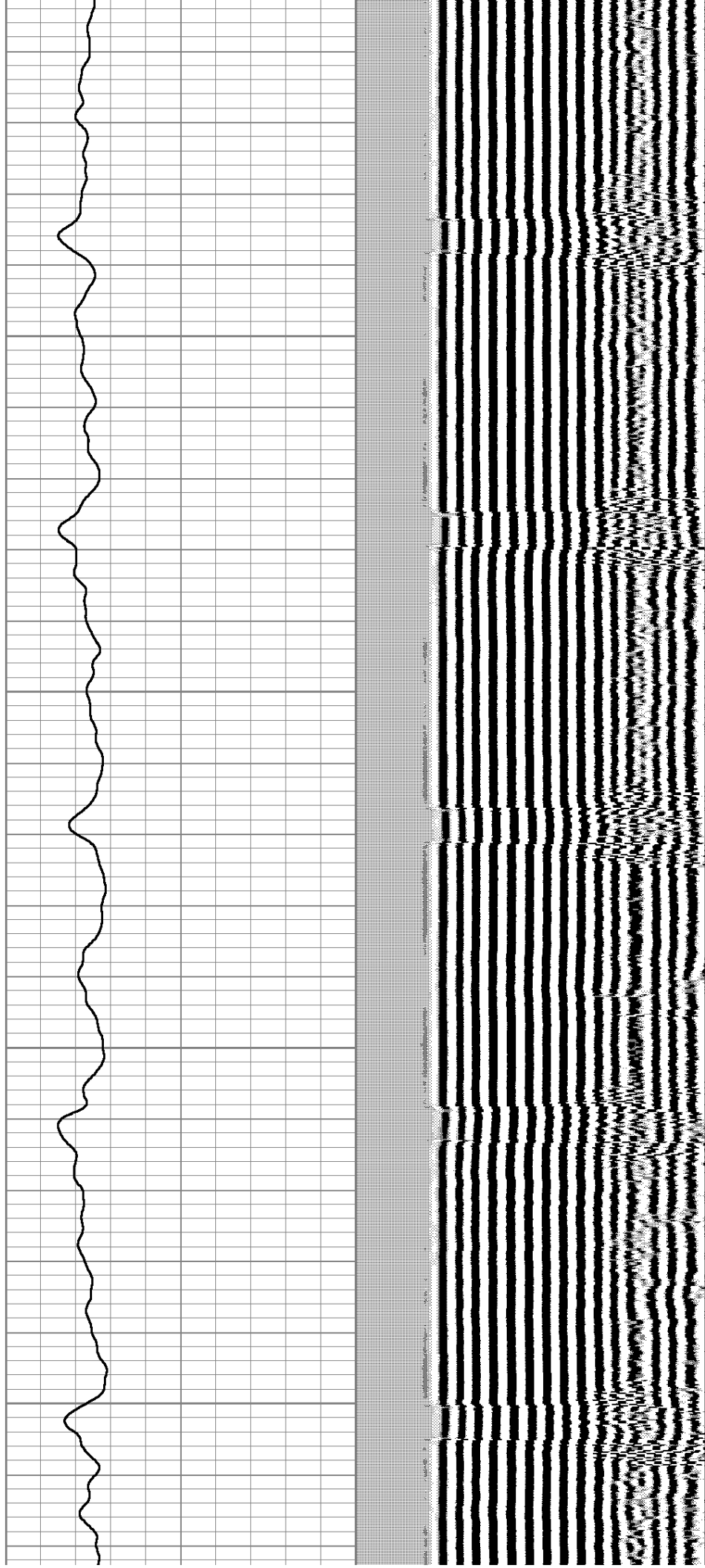


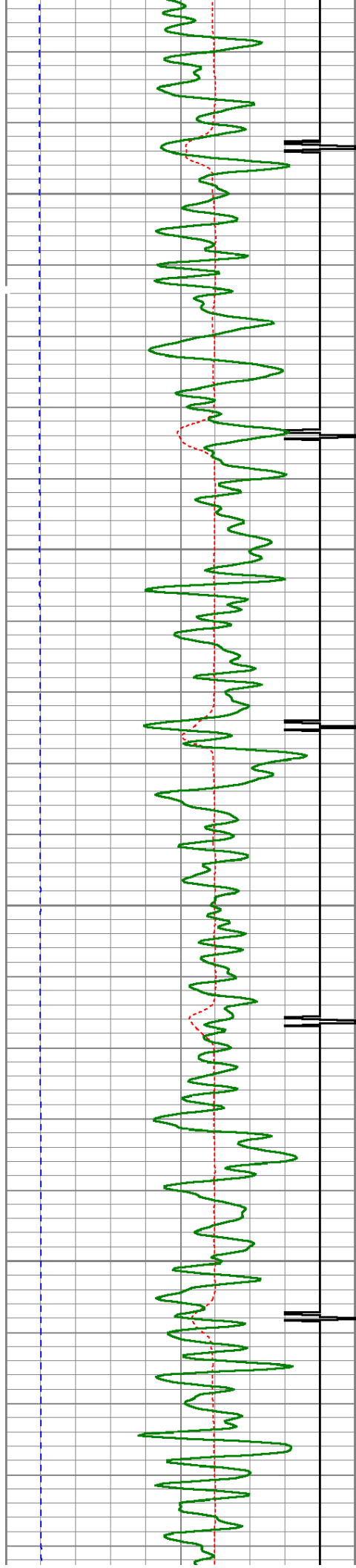
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2300

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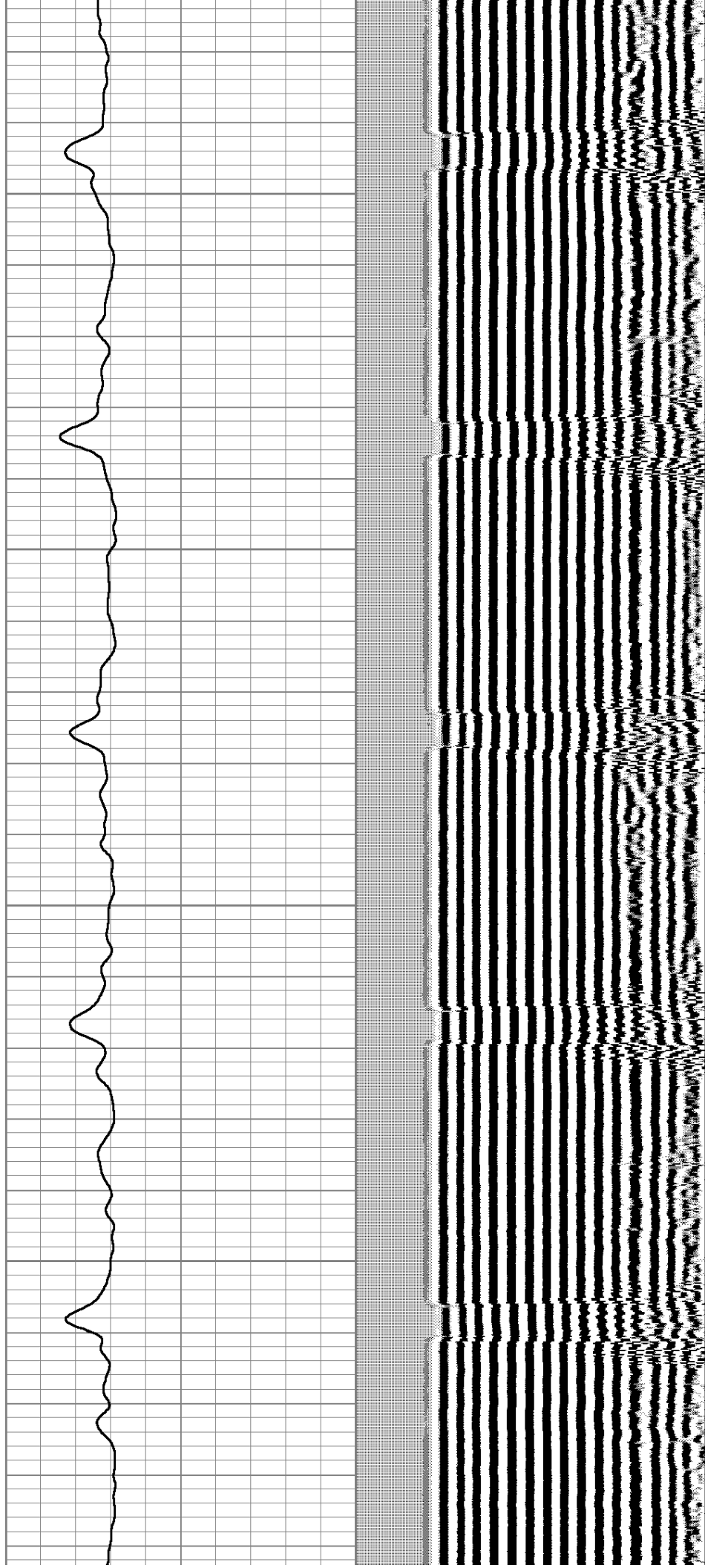


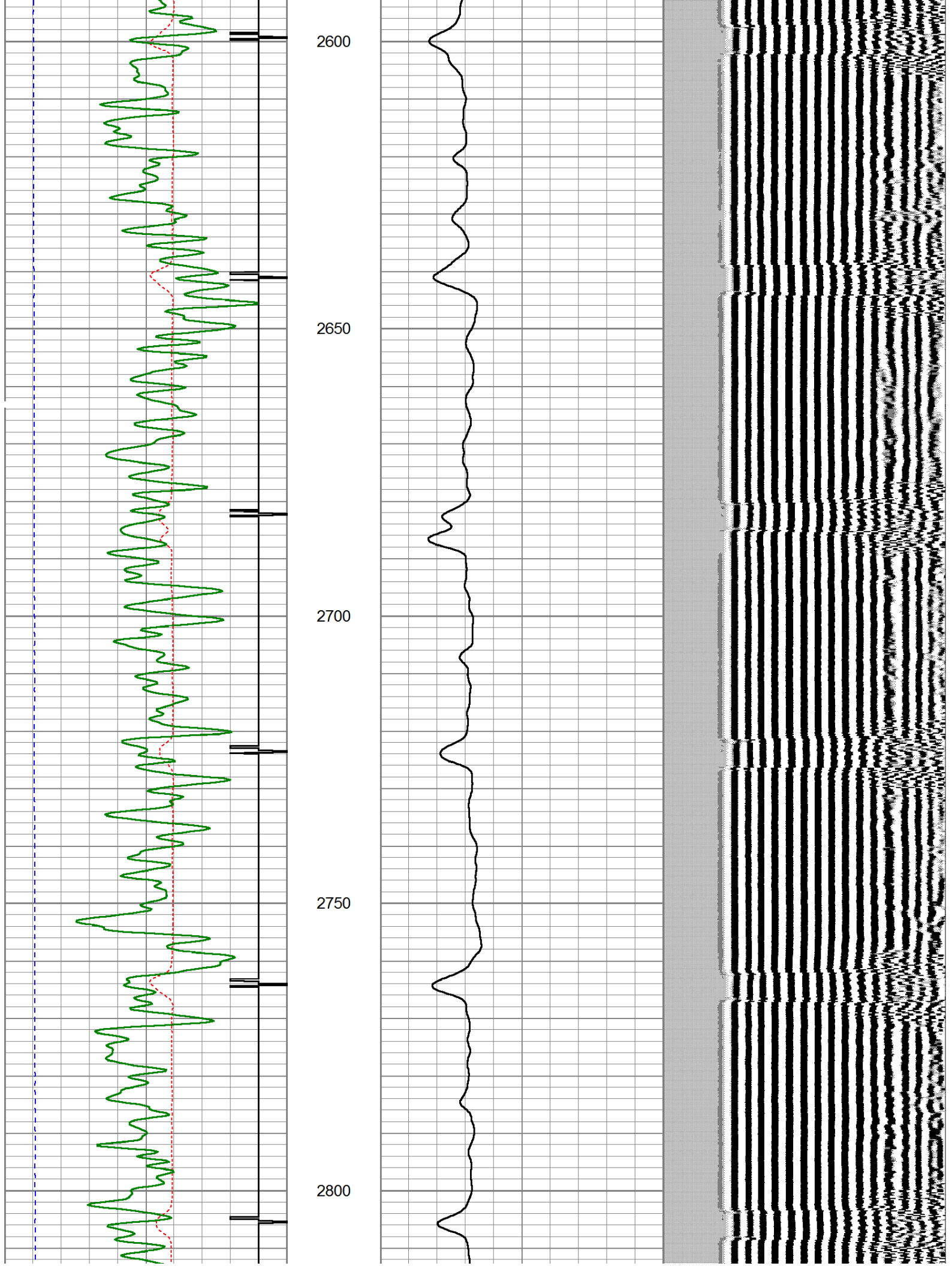
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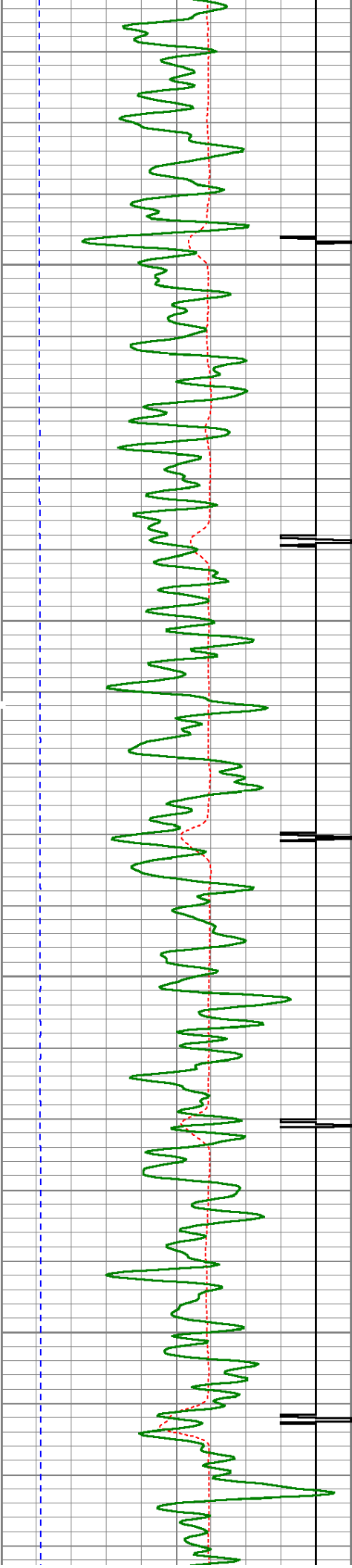
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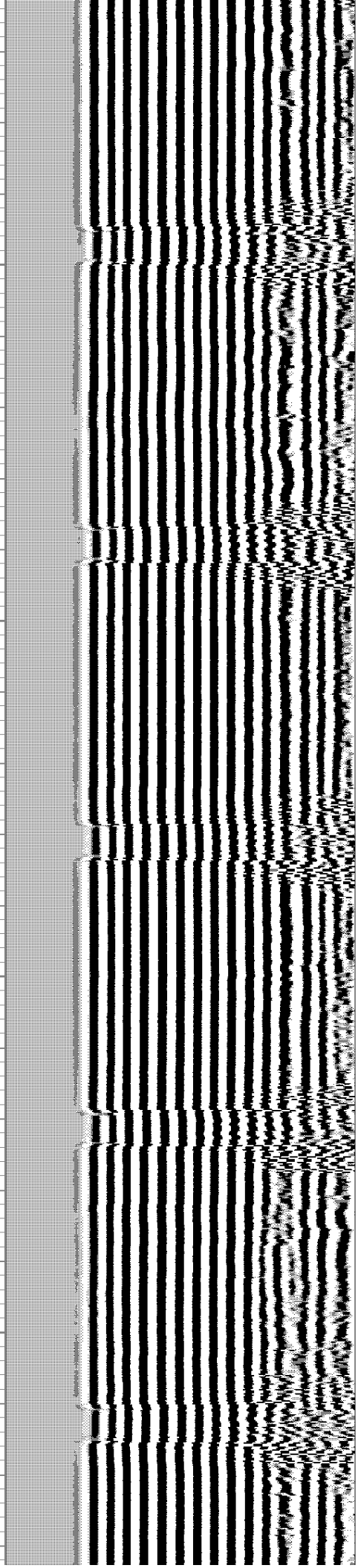
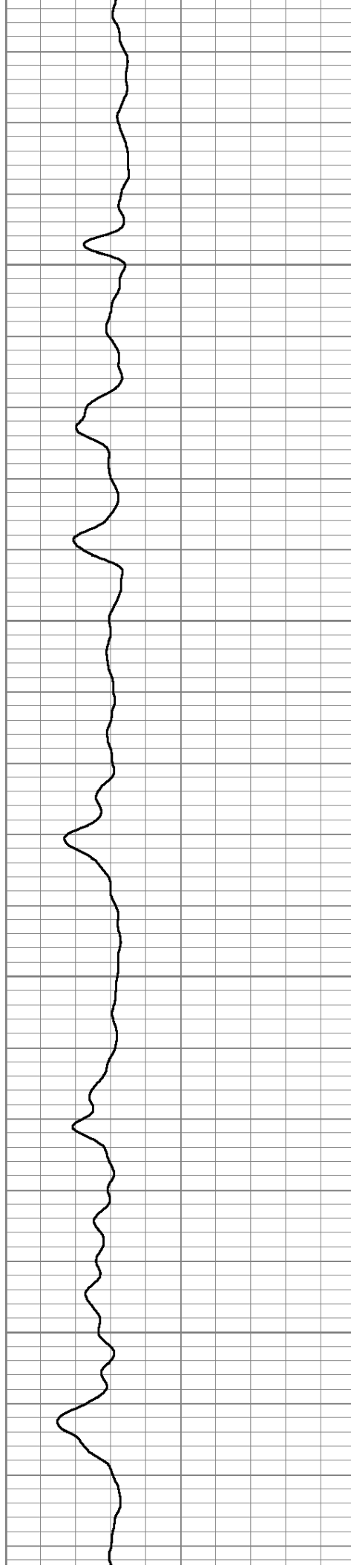


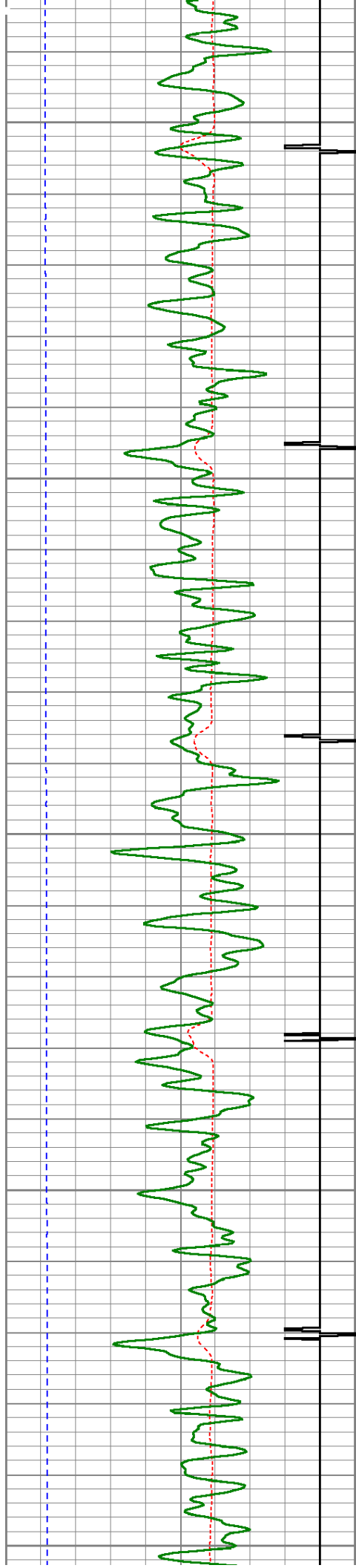
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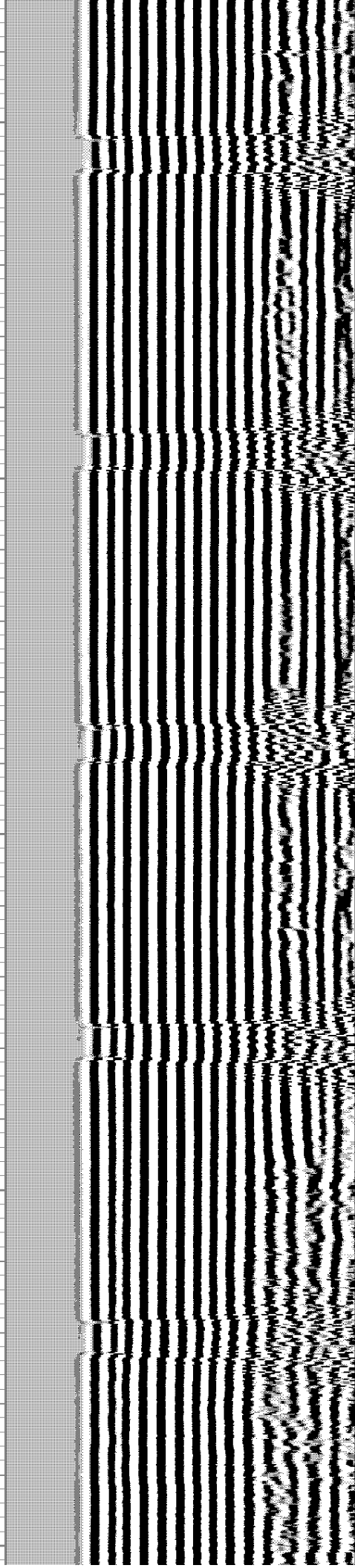
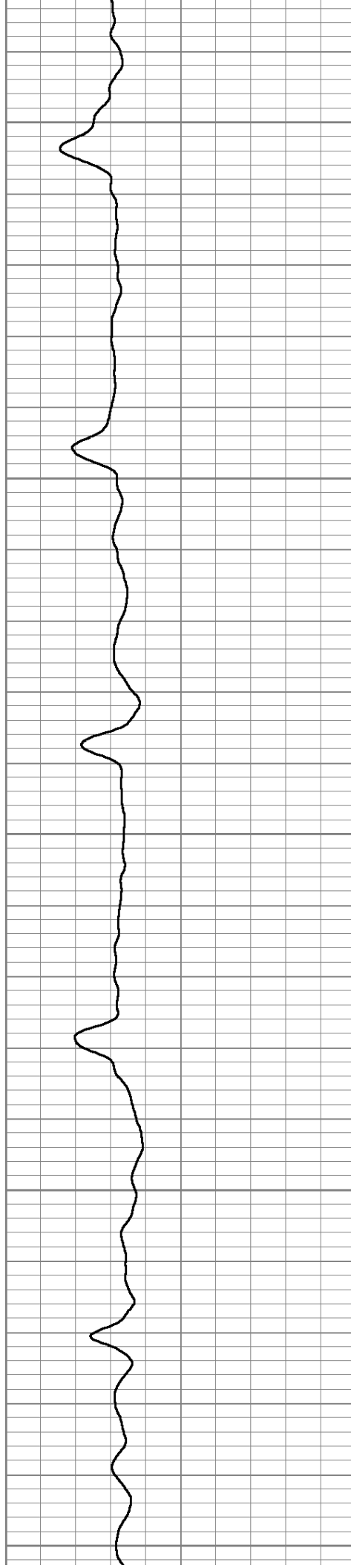
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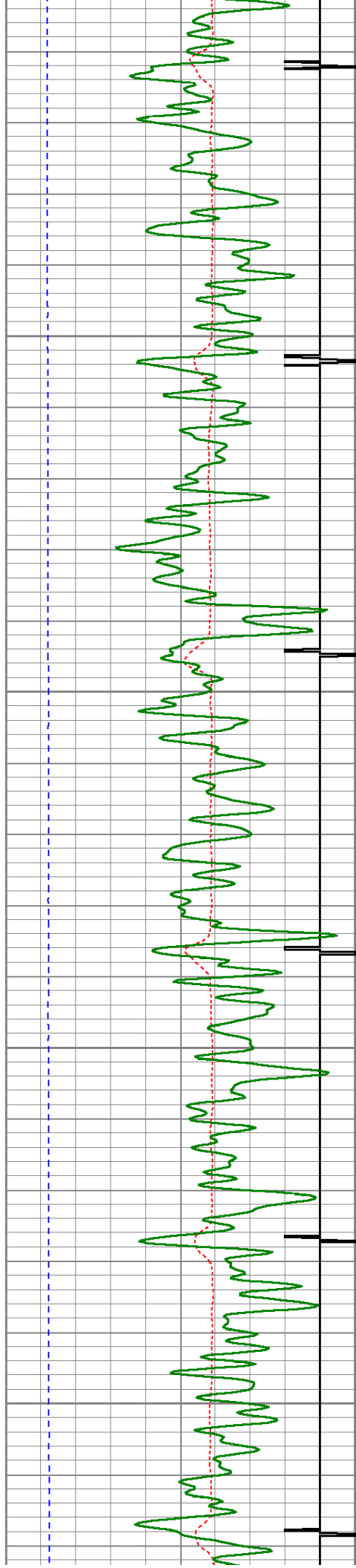
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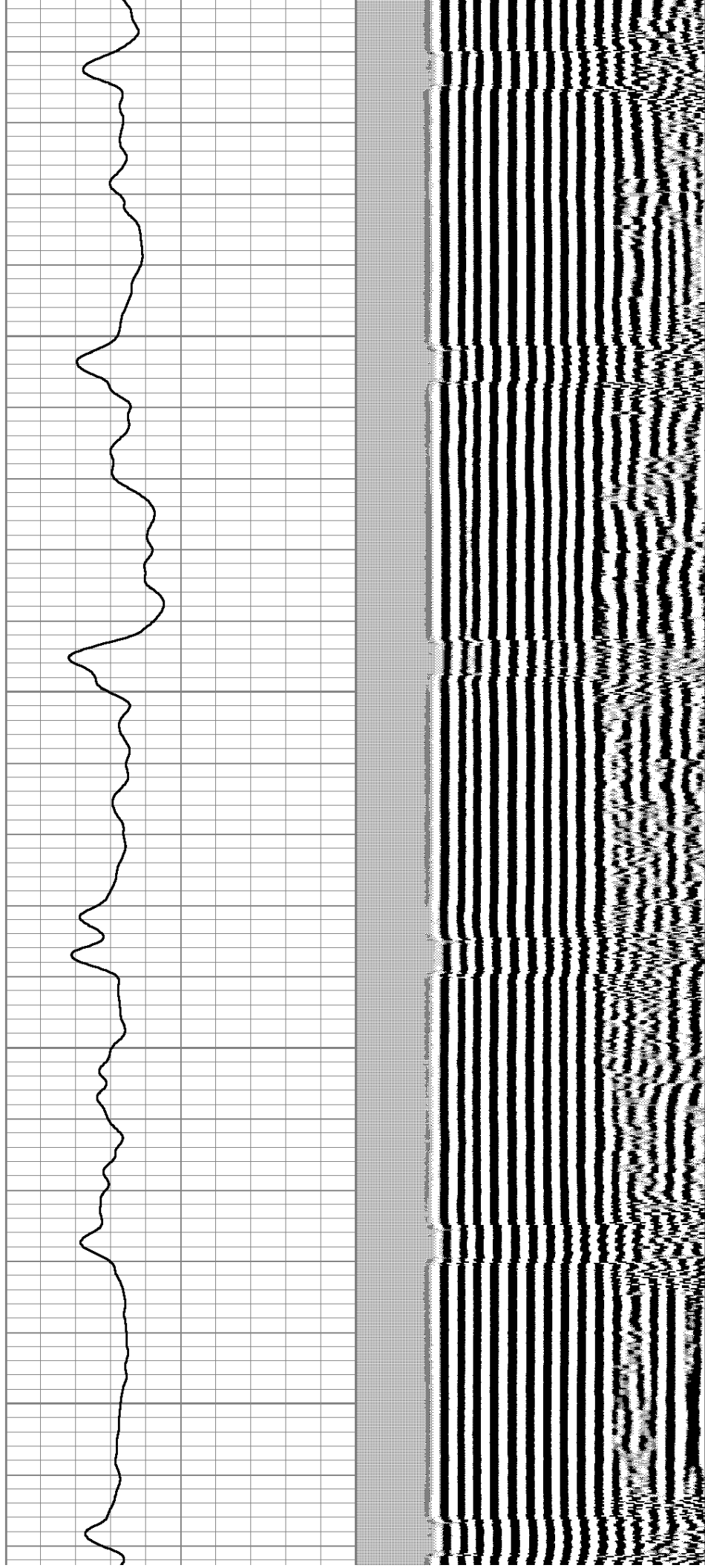


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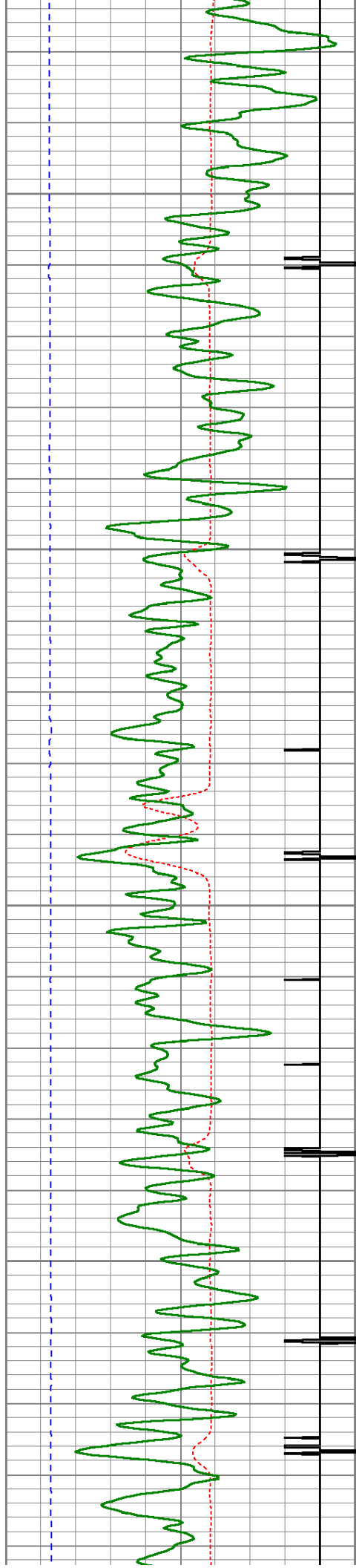
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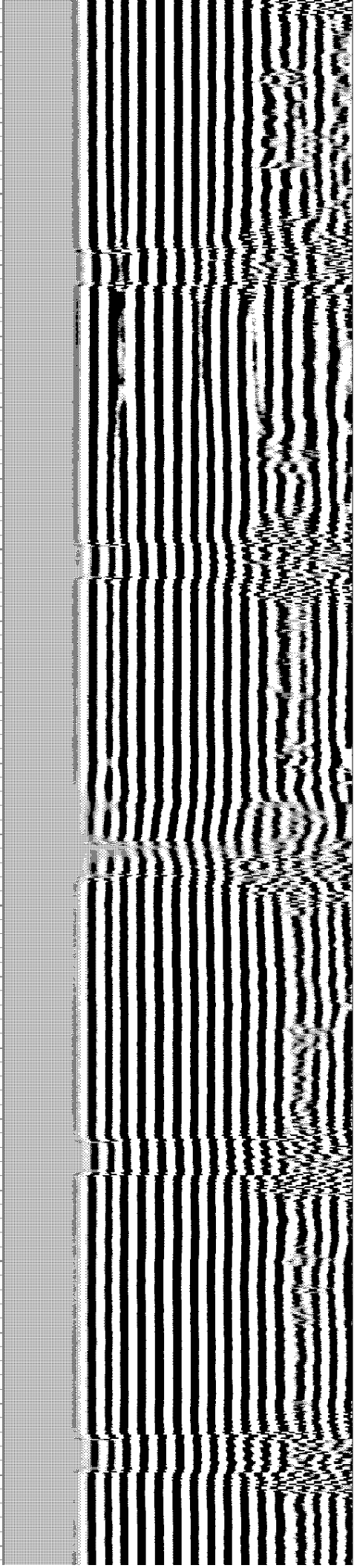
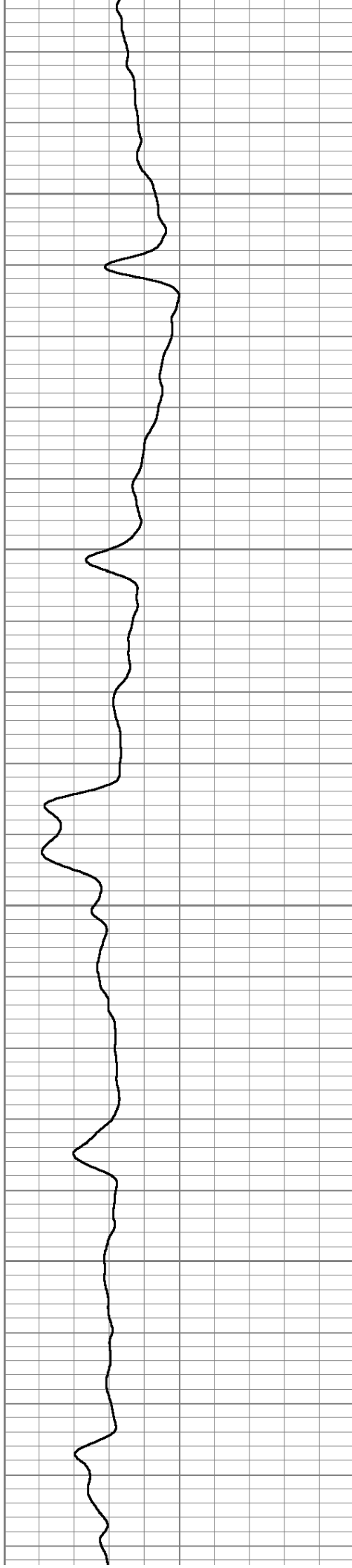


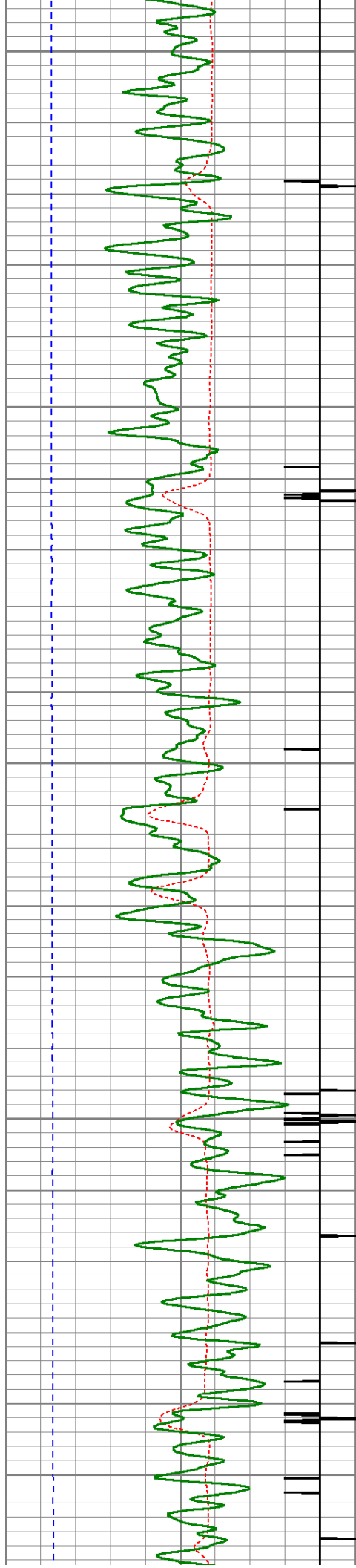
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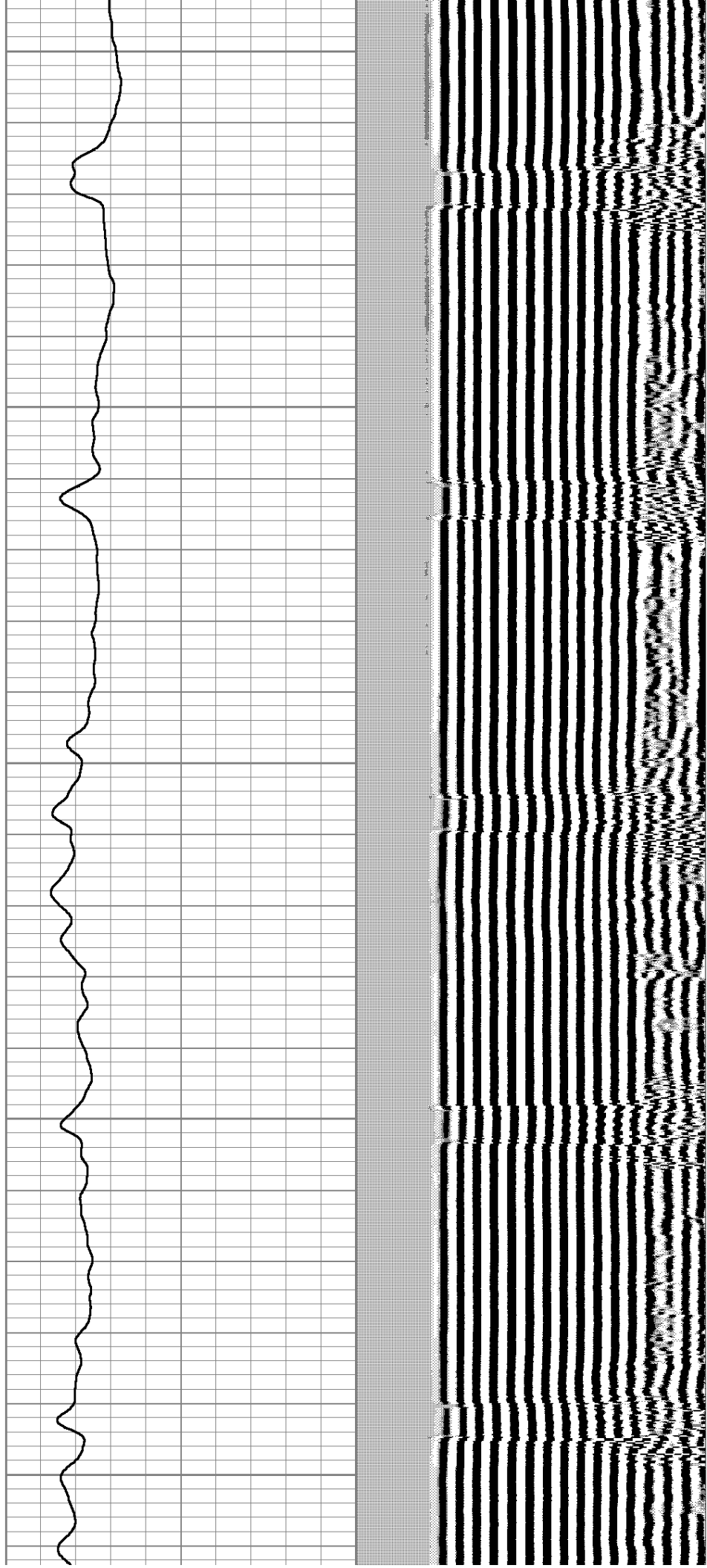
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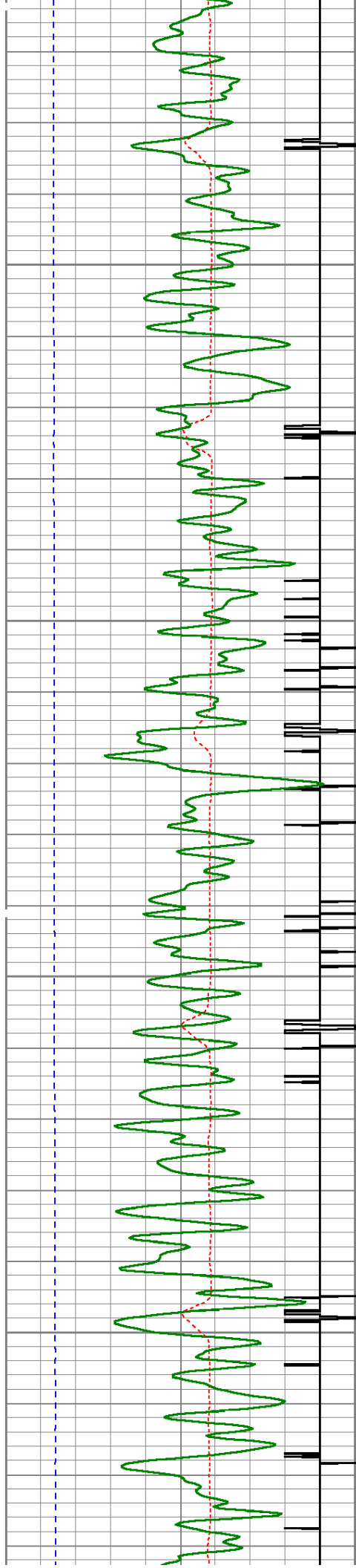
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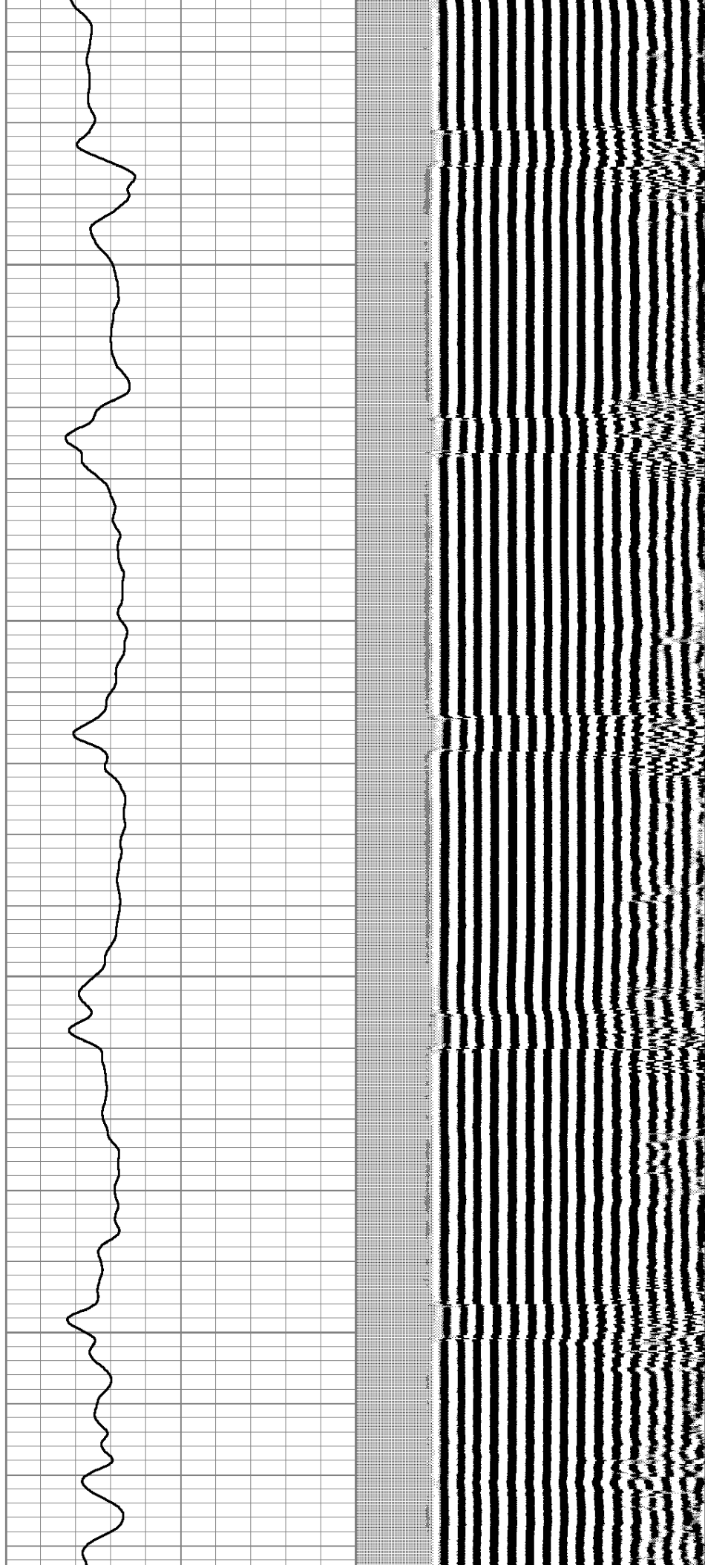


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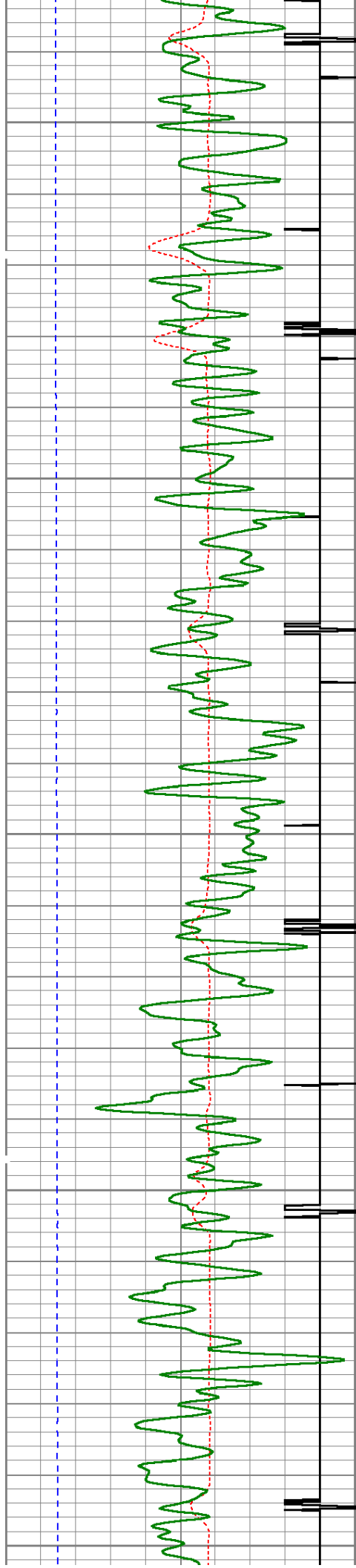
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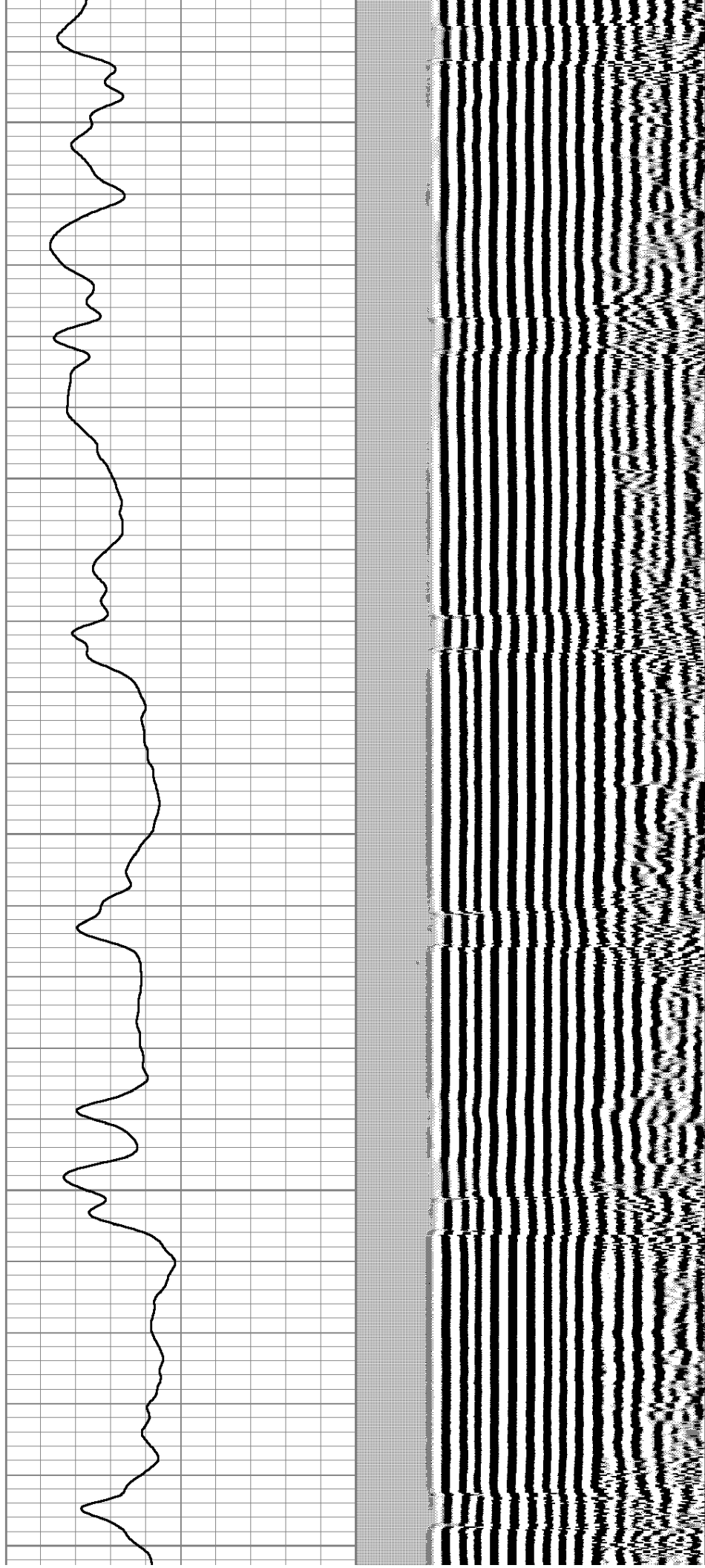
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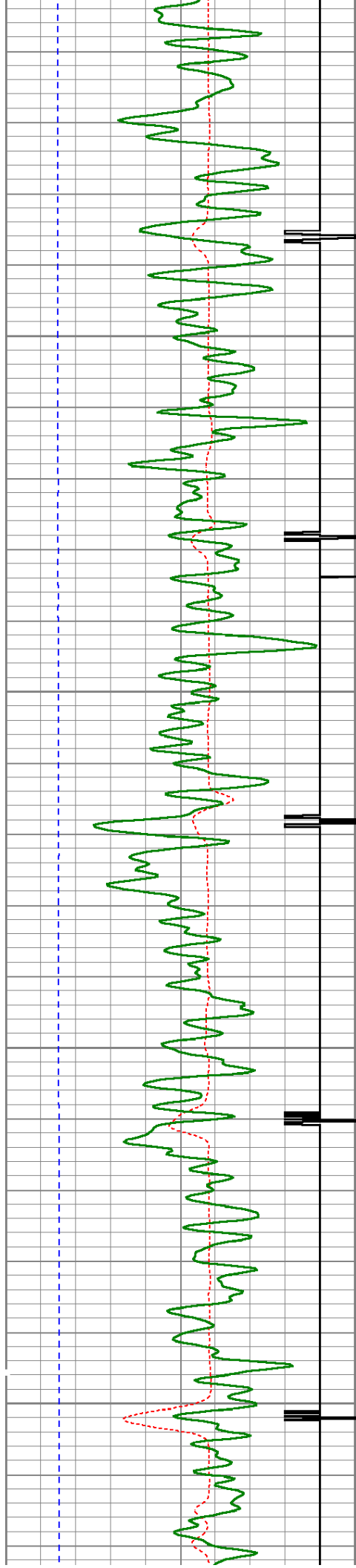
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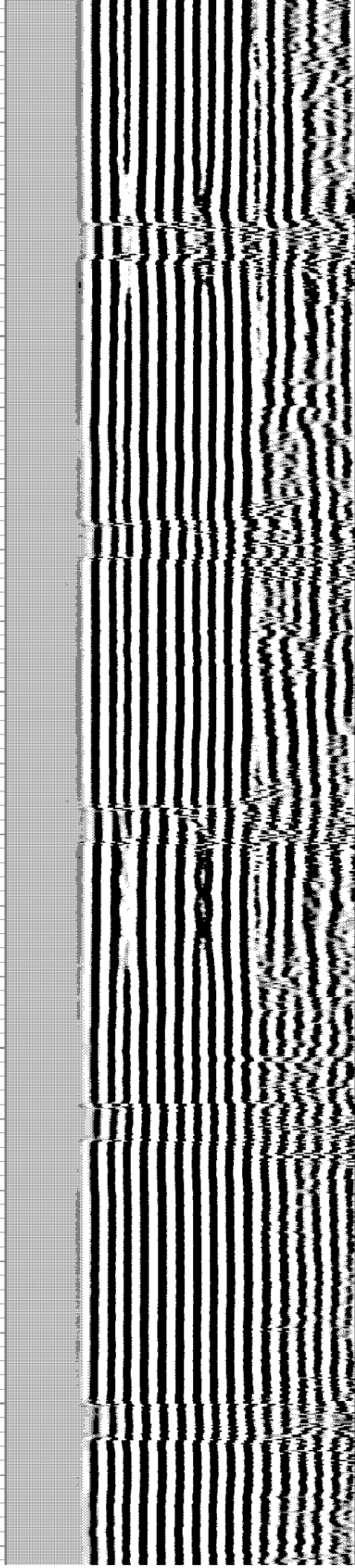
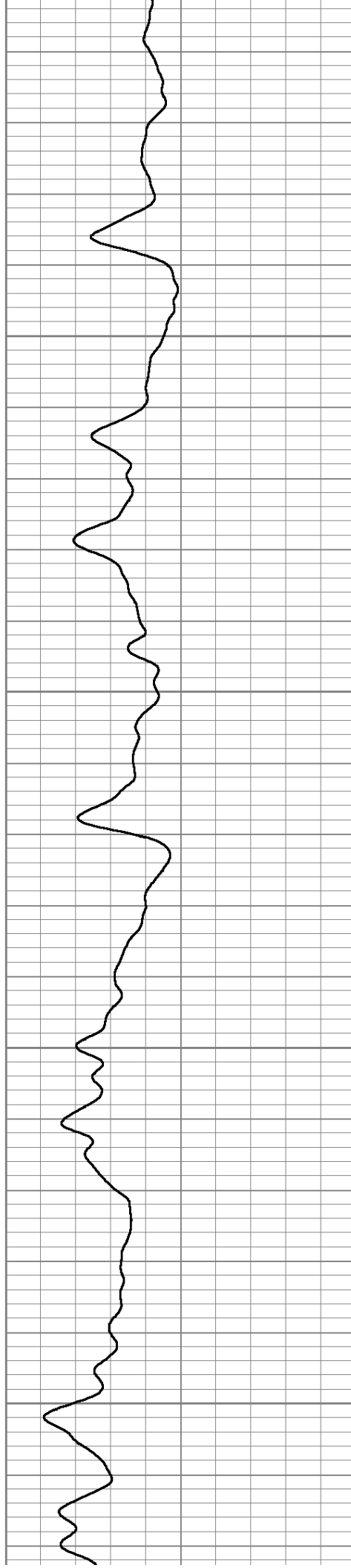


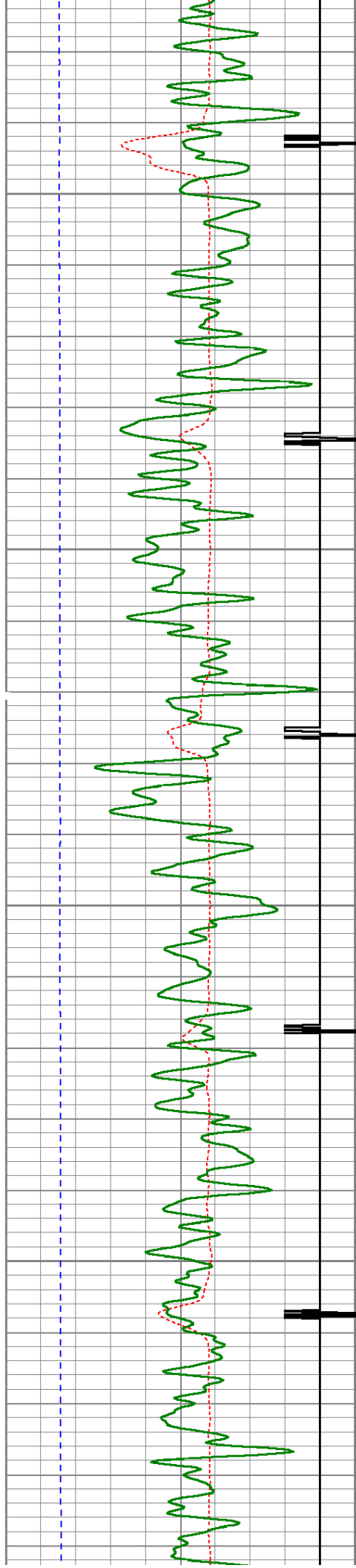
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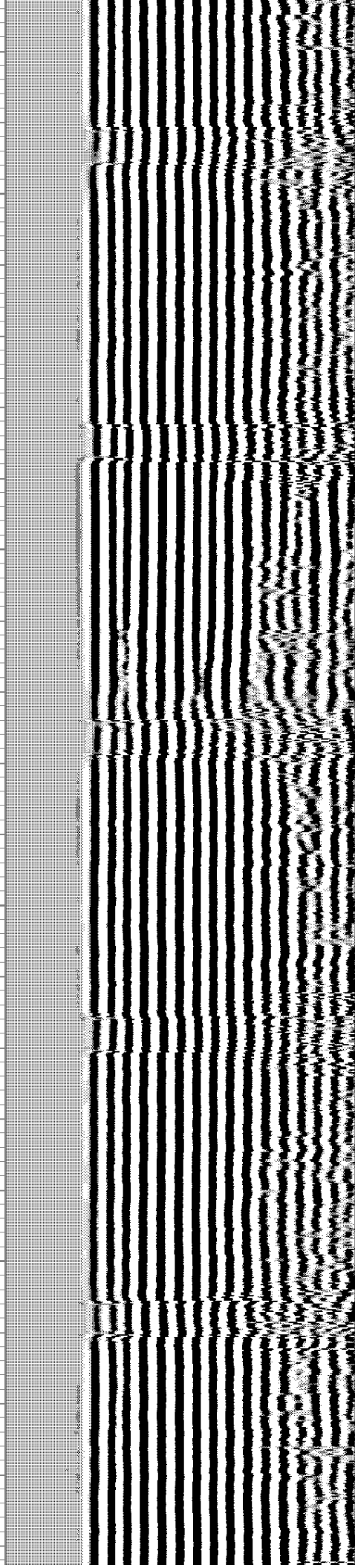
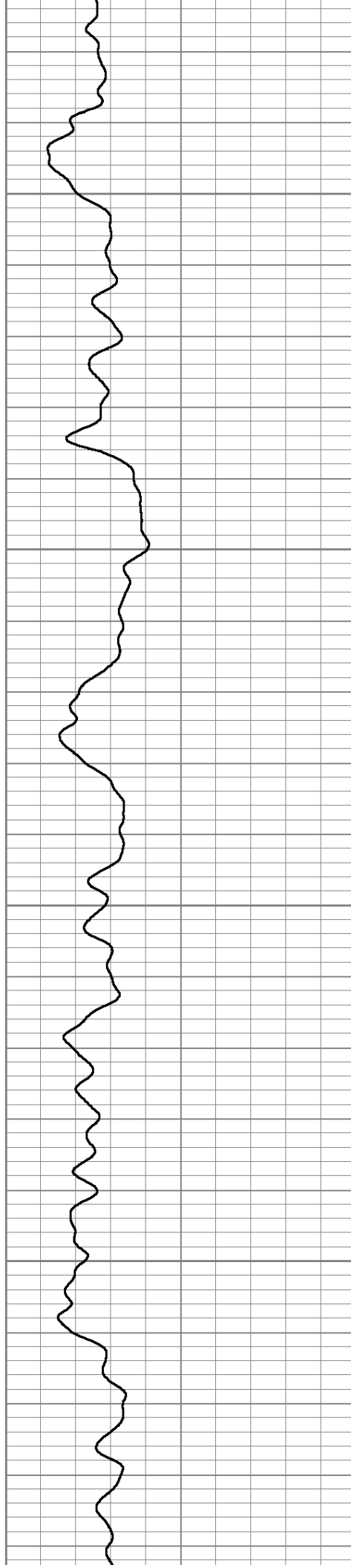


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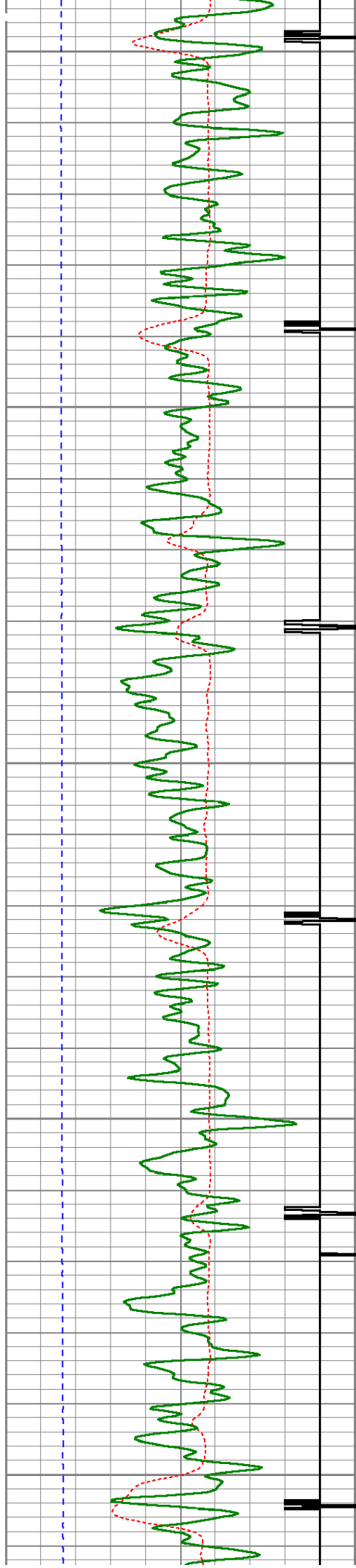
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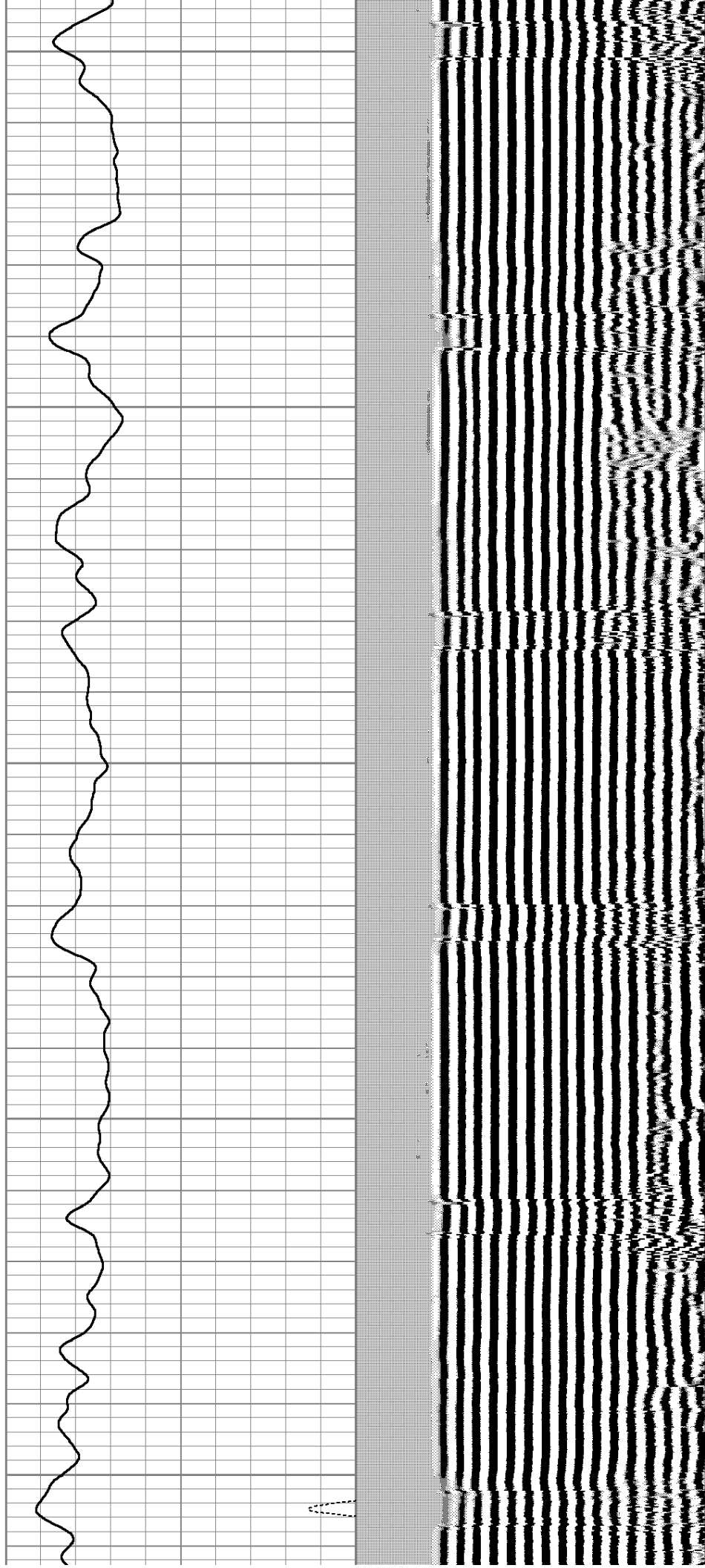
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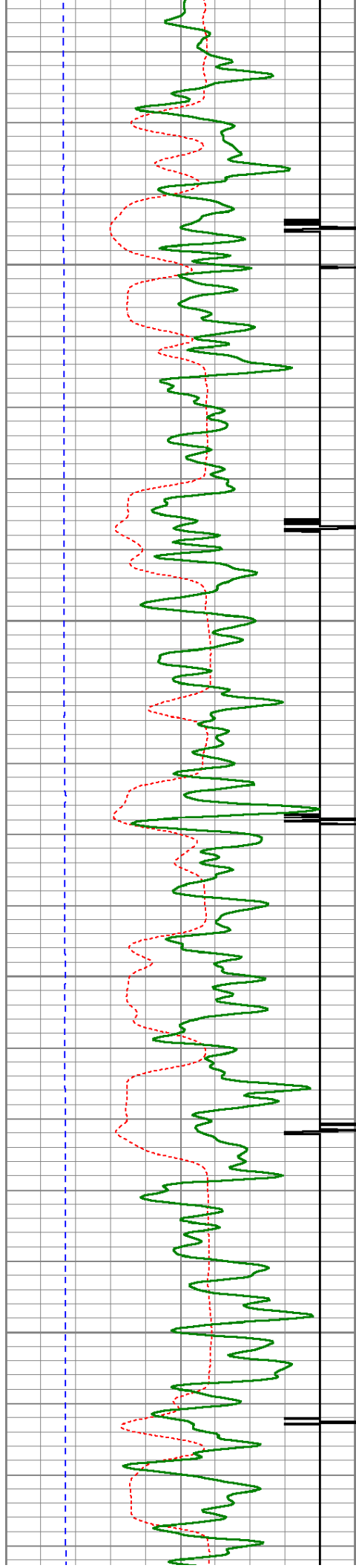
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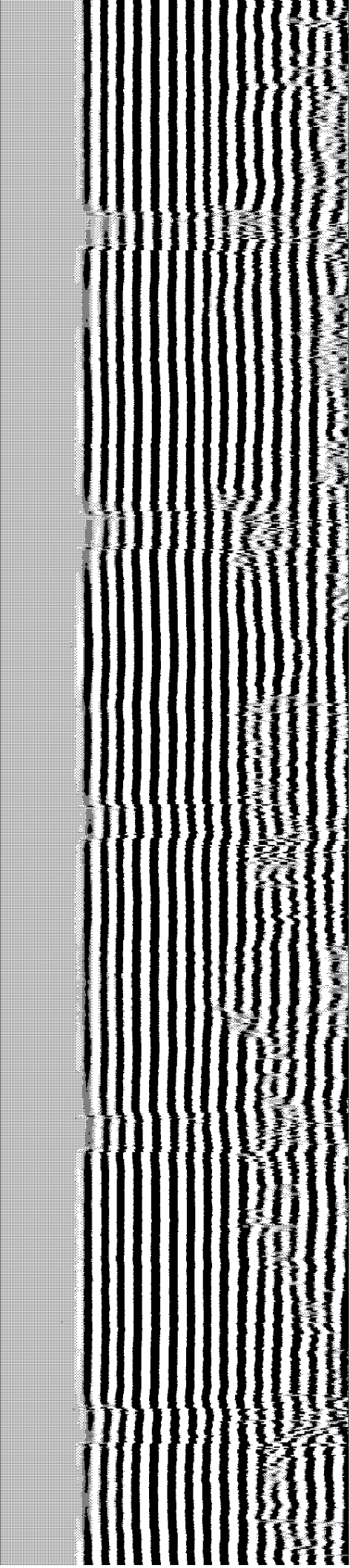
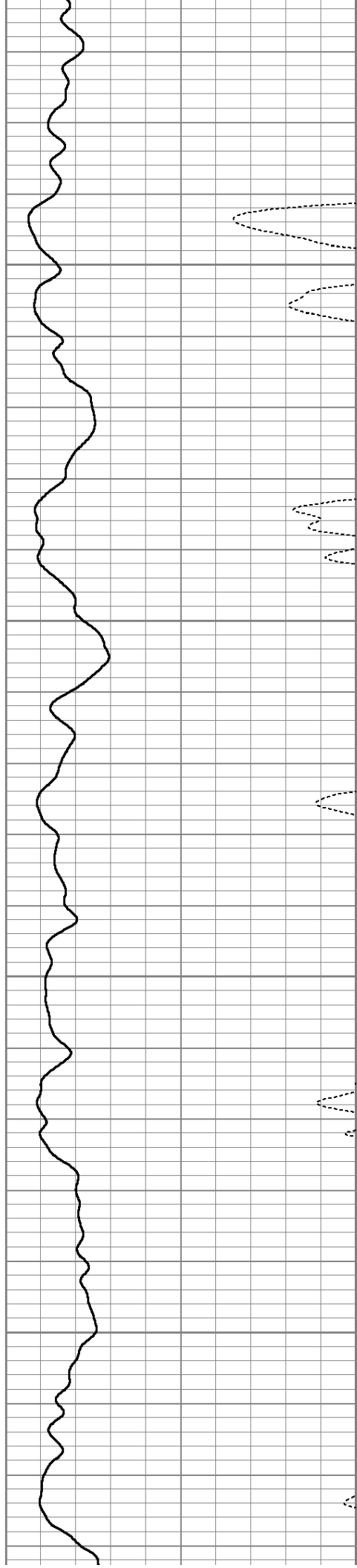


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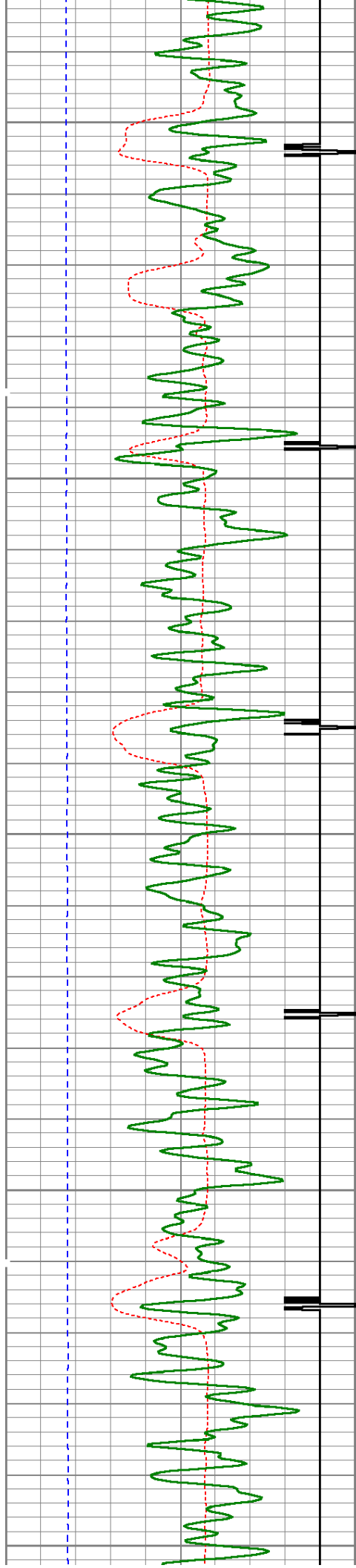
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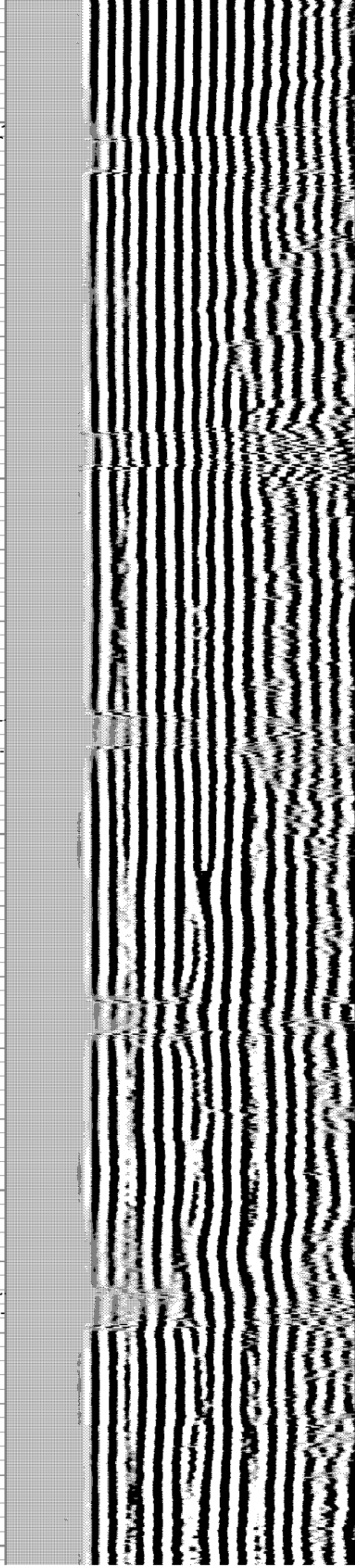
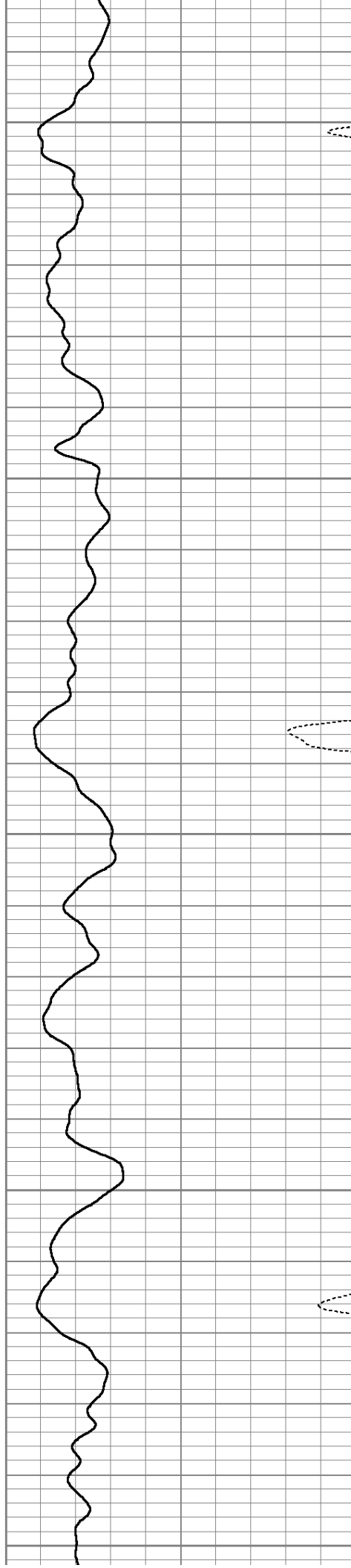
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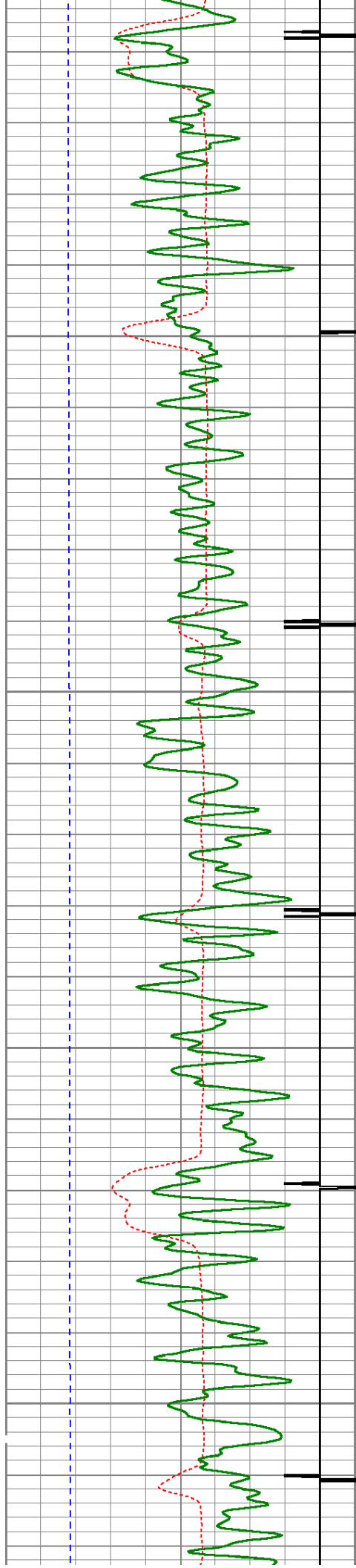
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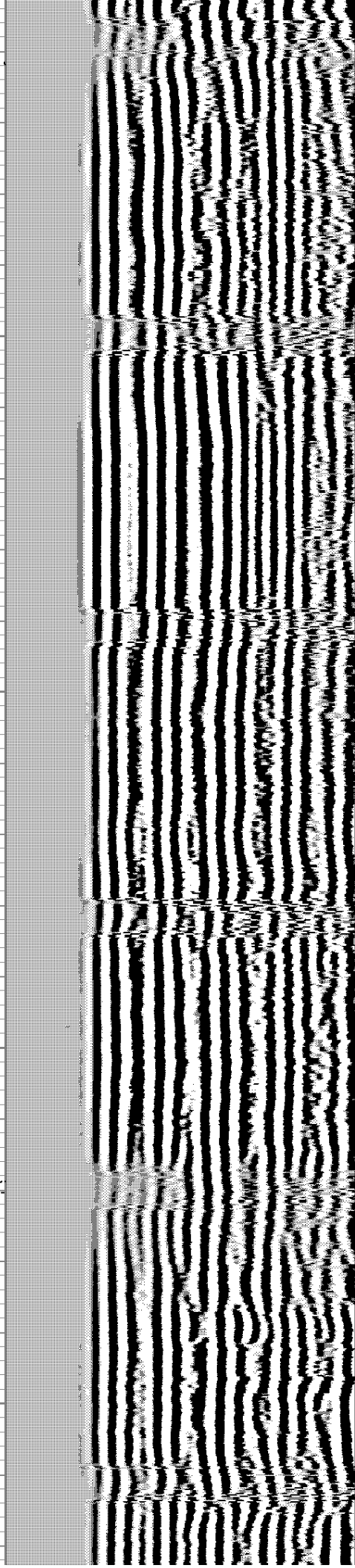
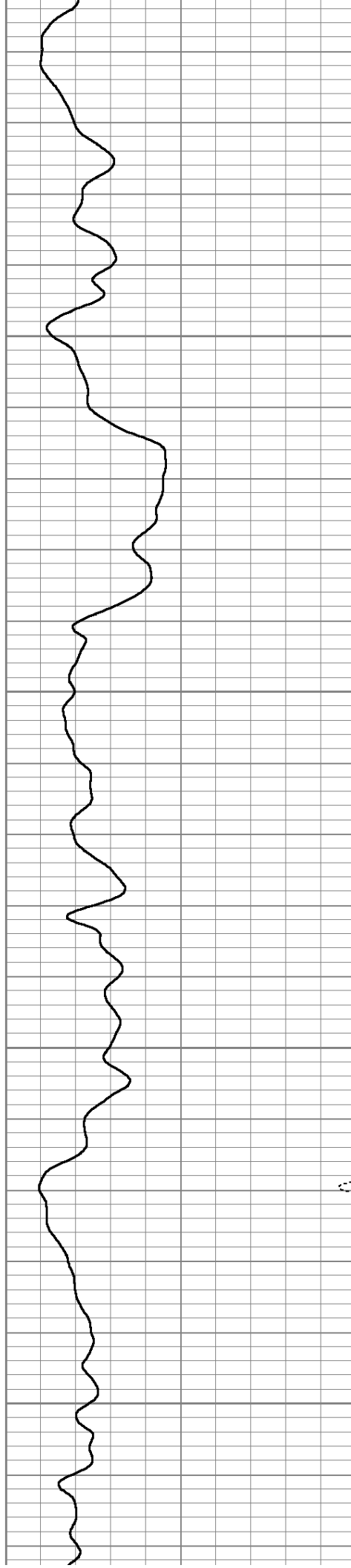


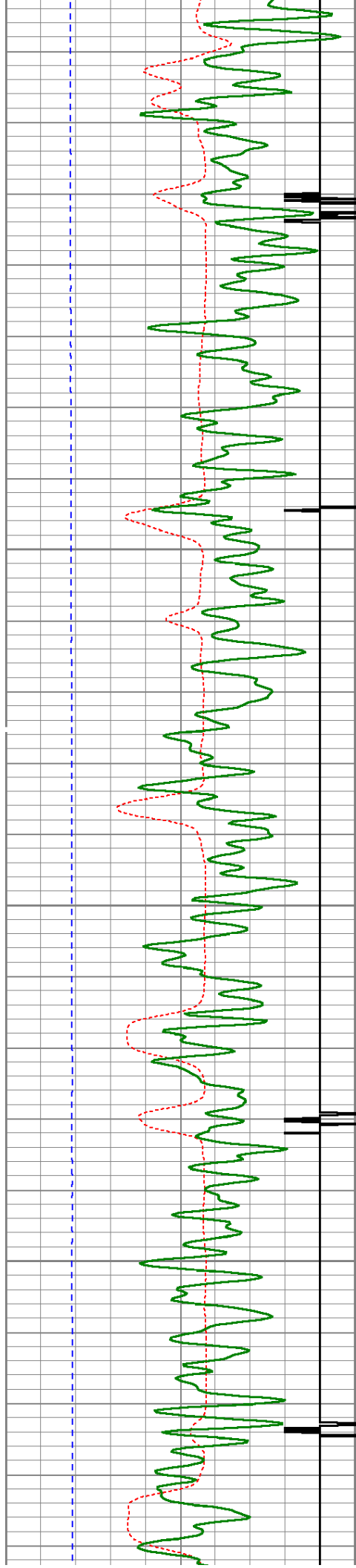
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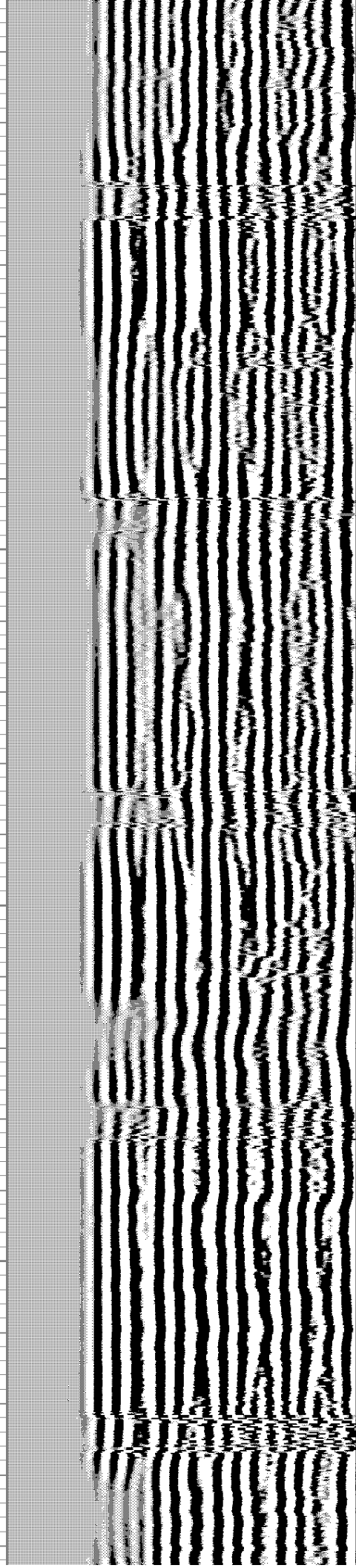
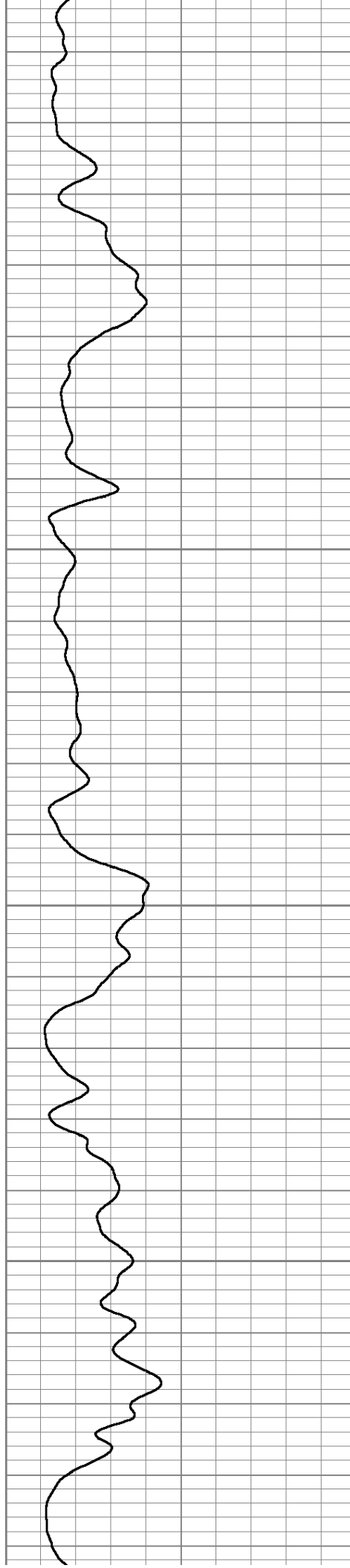


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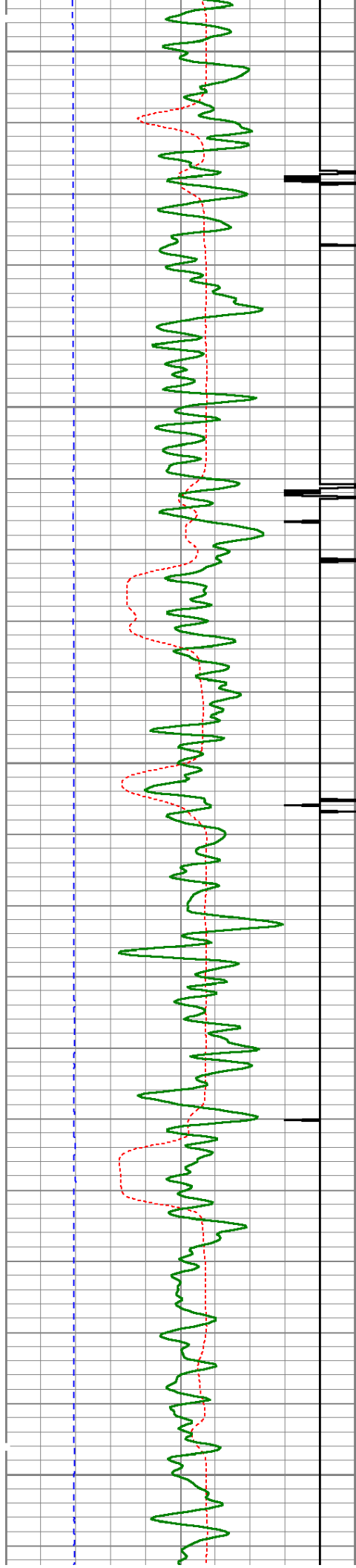
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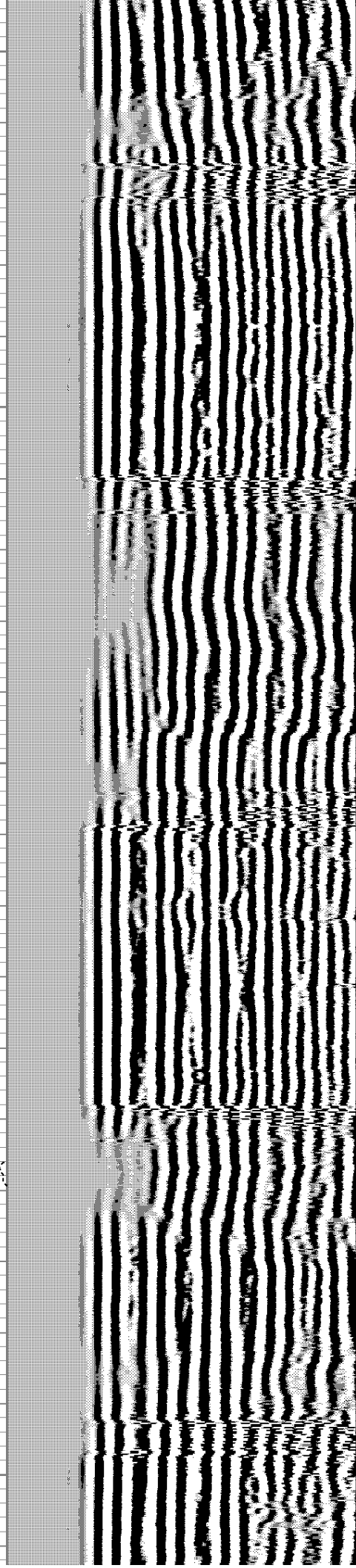
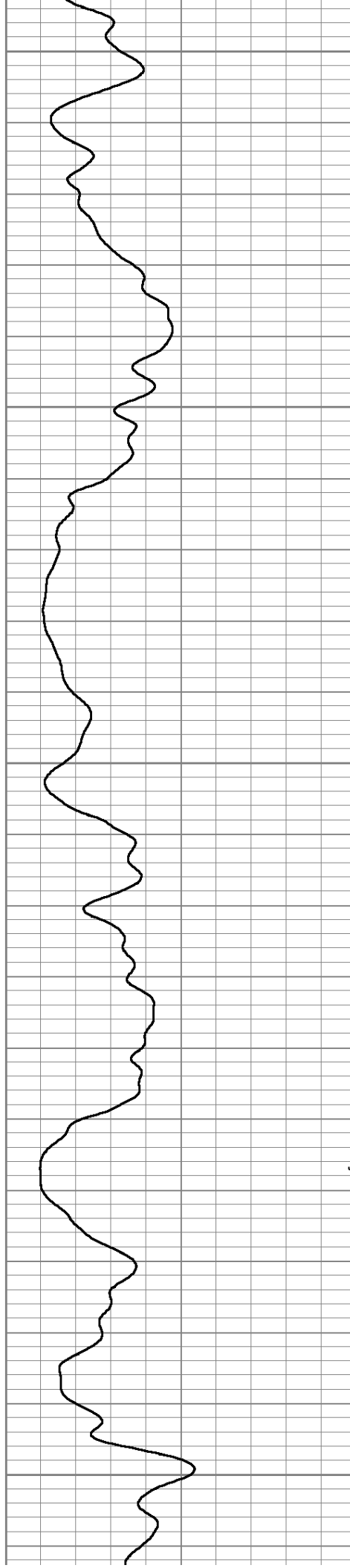
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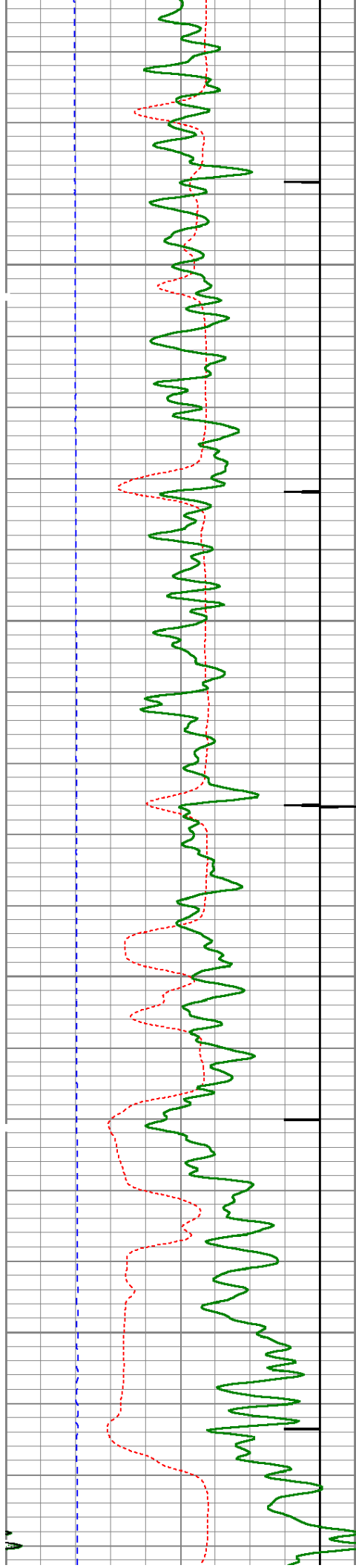
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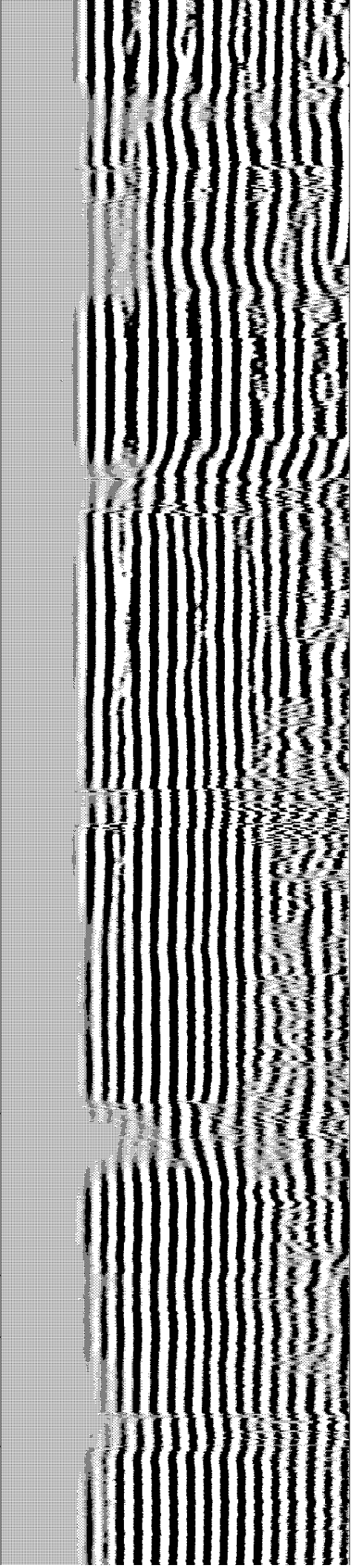
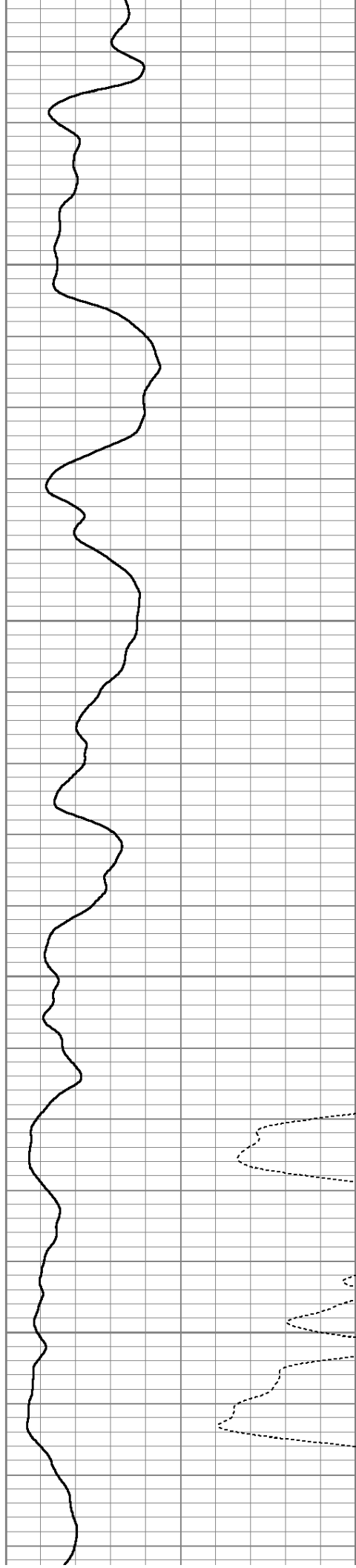


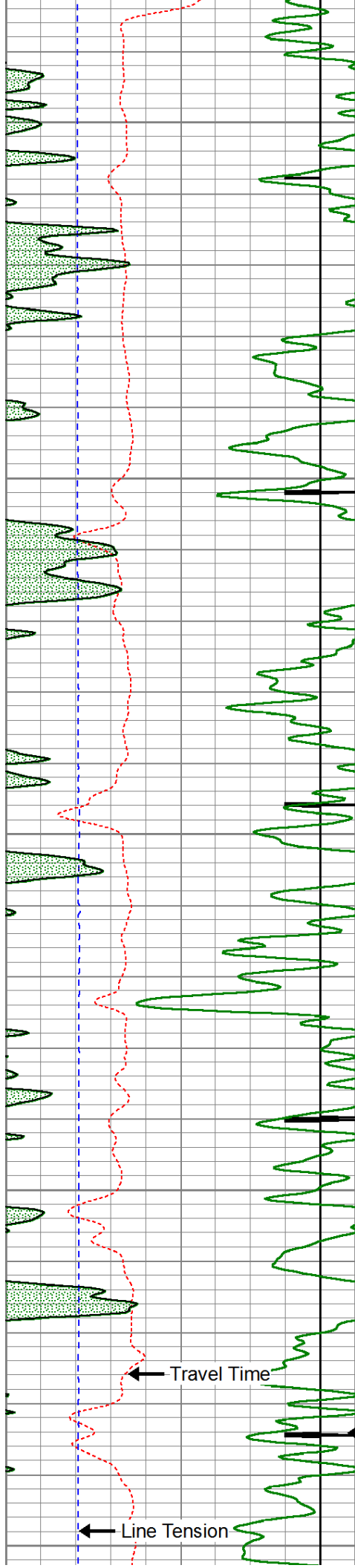
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6300





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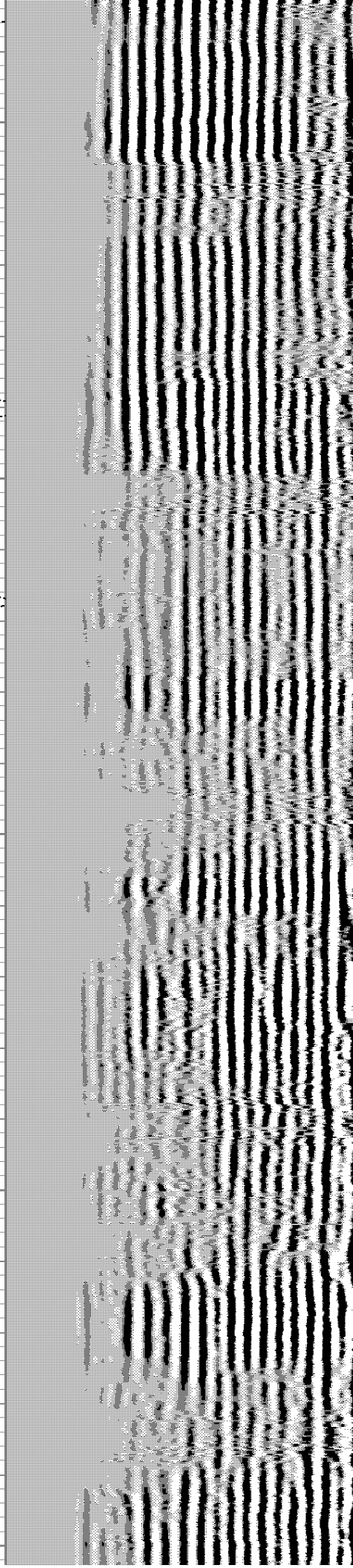
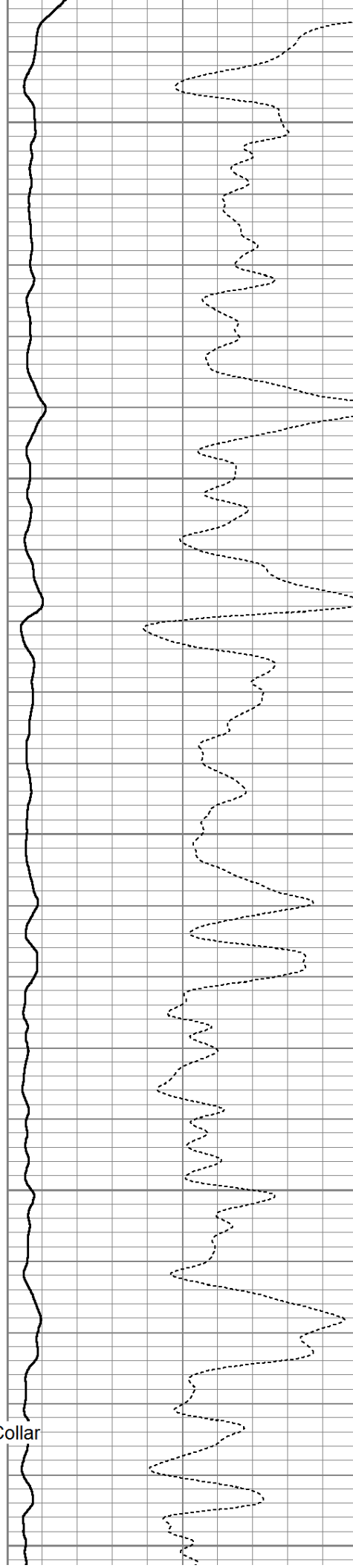
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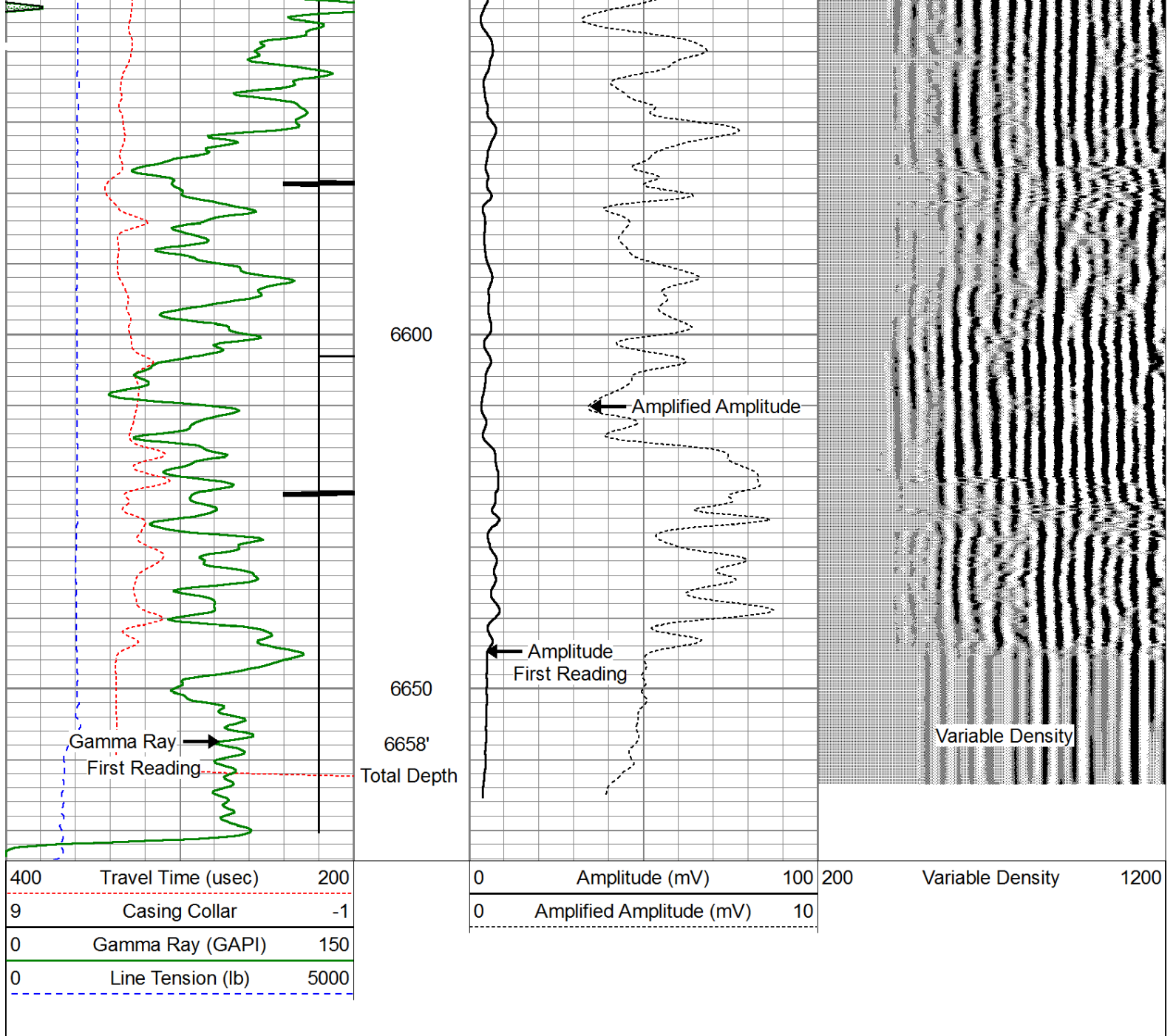
Travel Time

Line Tension

Casing Collar





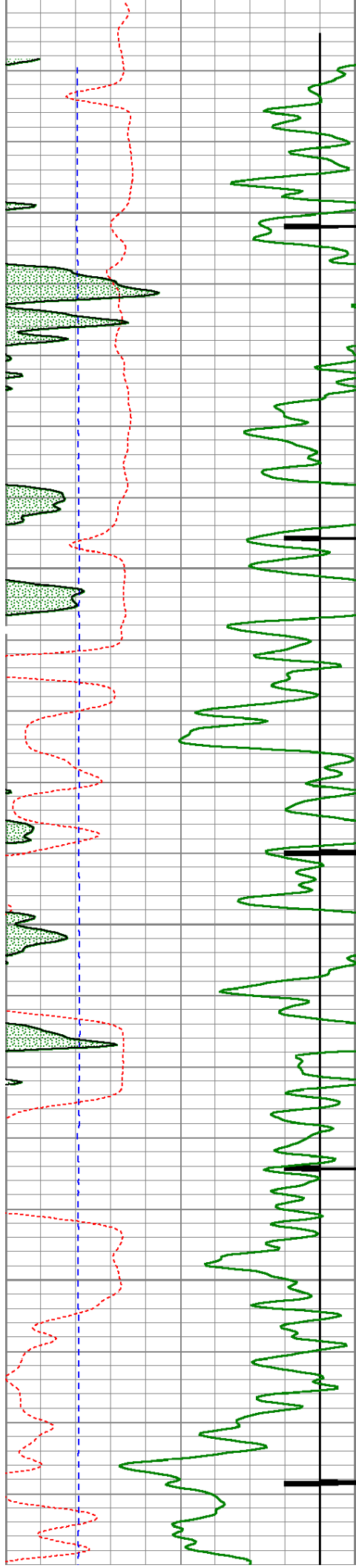


# Repeat Section (0 PSI)

Database File: bonanza creek- antelope y44-u41-18hnc\_cbl.db  
 Dataset Pathname: pass2  
 Presentation Format: cblprobe  
 Dataset Creation: Mon Mar 24 08:32:40 2014 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240

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



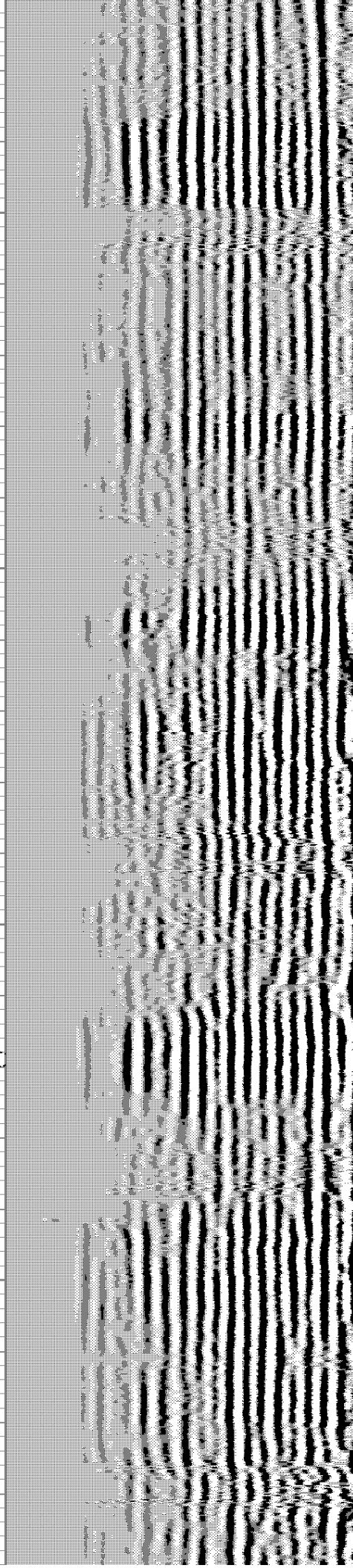
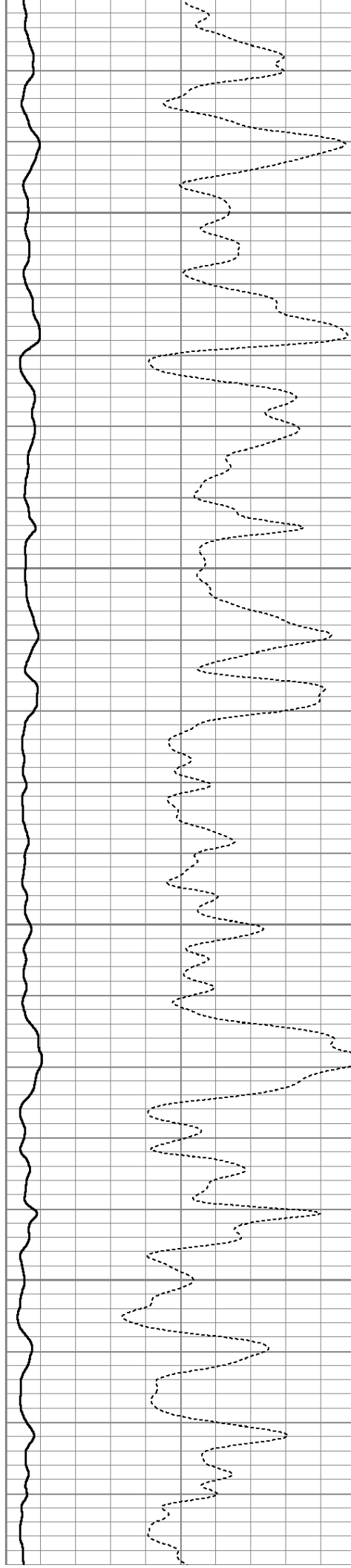


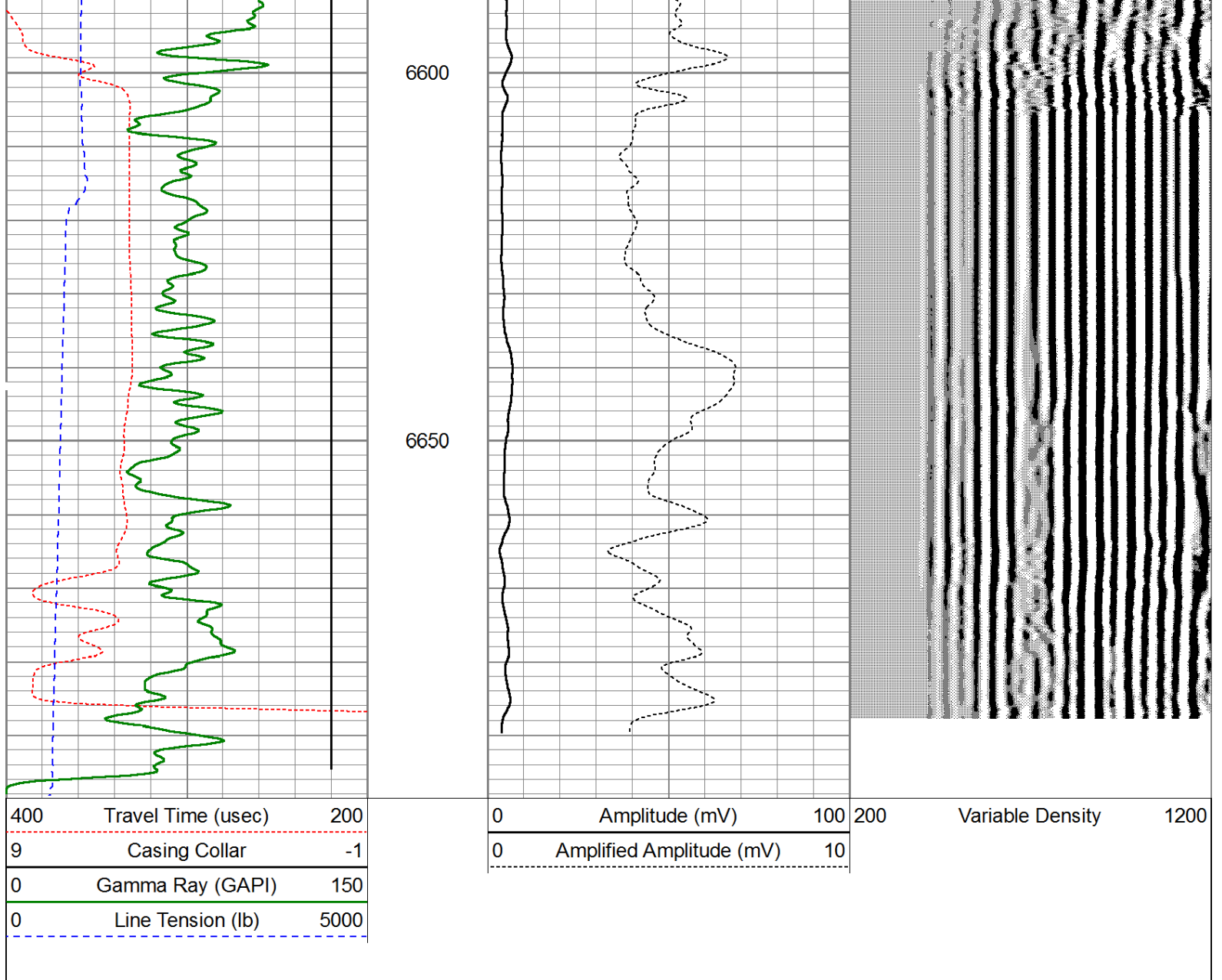
6400

6450

6500

6550





Calibration Report		
Database File:	bonanza creek- antelope y44-u41-18hnc_cbl.db	
Dataset Pathname:	pass3	
Dataset Creation:	Mon Mar 24 08:39:40 2014 by Log SCH 120126	
Gamma Ray Calibration Report		
Serial Number:	101135-Dig	
Tool Model:	Probe275	
Performed:	Sat Mar 22 11:25:00 2014	
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:	101254	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	4199.108	ft

Master Calibration, performed Sat Mar 22 15:06:33 2014:

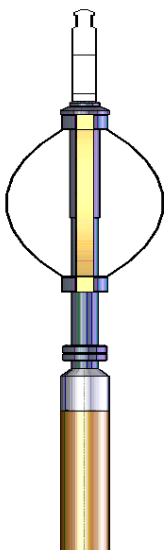
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.046	0.616	1.000	62.165	112.870	3.946
CAL	0.007	0.864				
5'	0.007	0.568	1.000	62.165	109.027	0.196
SUM						
S1	0.002	0.662	0.000	100.000	151.505	-0.351
S2	0.010	0.587	0.000	100.000	173.434	-1.766
S3	0.007	0.523	0.000	100.000	193.770	-1.386
S4	0.008	0.502	0.000	100.000	202.402	-1.552
S5	0.007	0.553	0.000	100.000	183.422	-1.352
S6	0.007	0.635	0.000	100.000	159.241	-1.174
S7	0.007	0.698	0.000	100.000	144.720	-1.051
S8	0.007	0.698	0.000	100.000	144.825	-1.052

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	0.007	0.864	1.000	0.000

Air Zero Calibration, performed Mon Oct 10 09:41:05 2005:

	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 Name	Start Depth (ft)	End Depth (ft)	Length (ft)	Weight (lb)	O.D. (in)
WVF3FT	11.84	11.84	0.00	0.00	0.00
WVFCAL	11.84	11.84	0.00	0.00	0.00
WVFS1	11.84	11.84	0.00	0.00	0.00
WVFS2	11.84	11.84	0.00	0.00	0.00
WVFS3	11.84	11.84	0.00	0.00	0.00
WVFS4	11.84	11.84	0.00	0.00	0.00
WVFS5	11.84	11.84	0.00	0.00	0.00
WVFS6	11.84	11.84	0.00	0.00	0.00
WVFS7	11.84	11.84	0.00	0.00	0.00
WVFS8	11.84	11.84	0.00	0.00	0.00
WVF5FT	10.84	11.84	1.00	0.00	0.00
RBT-Probe (101254)	8.75	11.84	3.09	90.00	2.75
Probe Radii Bond Tool with Digital Telemetry					
Probe275	2.88	5.56	2.68	20.00	2.75
2.75" Centralizer					
CCL	3.88	3.88	0.00	0.00	0.00
GR	2.54	7.32	4.78	57.00	2.75
GR-Probe275 (101135-Dig)					
Probe 2 3/4" Logging Gamma Ray					
Dataset: bonanza creek- antelope y44-u41-18hnc_cbl.db: field/well/run1/pass3 Total Length: 20.28 ft Total Weight: 197.00 lb O.D. 2.75 in					