



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

Company	Bonanza Creek Energy	Company	Bonanza Creek Energy
Well	Antelope F-J-18 HNB	Well	Antelope F-J-18 HNB
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-35865	Other Services
644' FNL & 1278' FWL		None	
Permanent Datum	SEC 18 TWP 5N RGE 62W	Elevation	
Log Measured From	Ground Level	Elevation	4614'
Drilling Measured From	Kelly Bushing 15' APD	K.B. 4629'	
	Kelly Bushing	D.F. 4628'	
		G.L. 4614'	
Date	29-April-2013		
Run Number	One		
Depth Driller	11090'		
Depth Logger	6568'		
Bottom Logged Interval	6563'		
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	16:00		
Time Logger on Bottom	16:30		
Equipment Number	13033		
Location	Brighton, CO		
Recorded By	B.Kalkwarf		
Witnessed By	Kurt Dodge		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
1	13.5"	Surface	401'
2	8.75"	410'	6705'
3	6.125"	6705'	11090'
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			410'
Production String	7"	26#	Surface
Liner	4.5"	11 6#	6605'
			6920'
			10962'

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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. B.Kalkwarf, M. Schneider, R. Anderson, C. Rall

Thank You for using Allied Wireline
(303) 659-4609



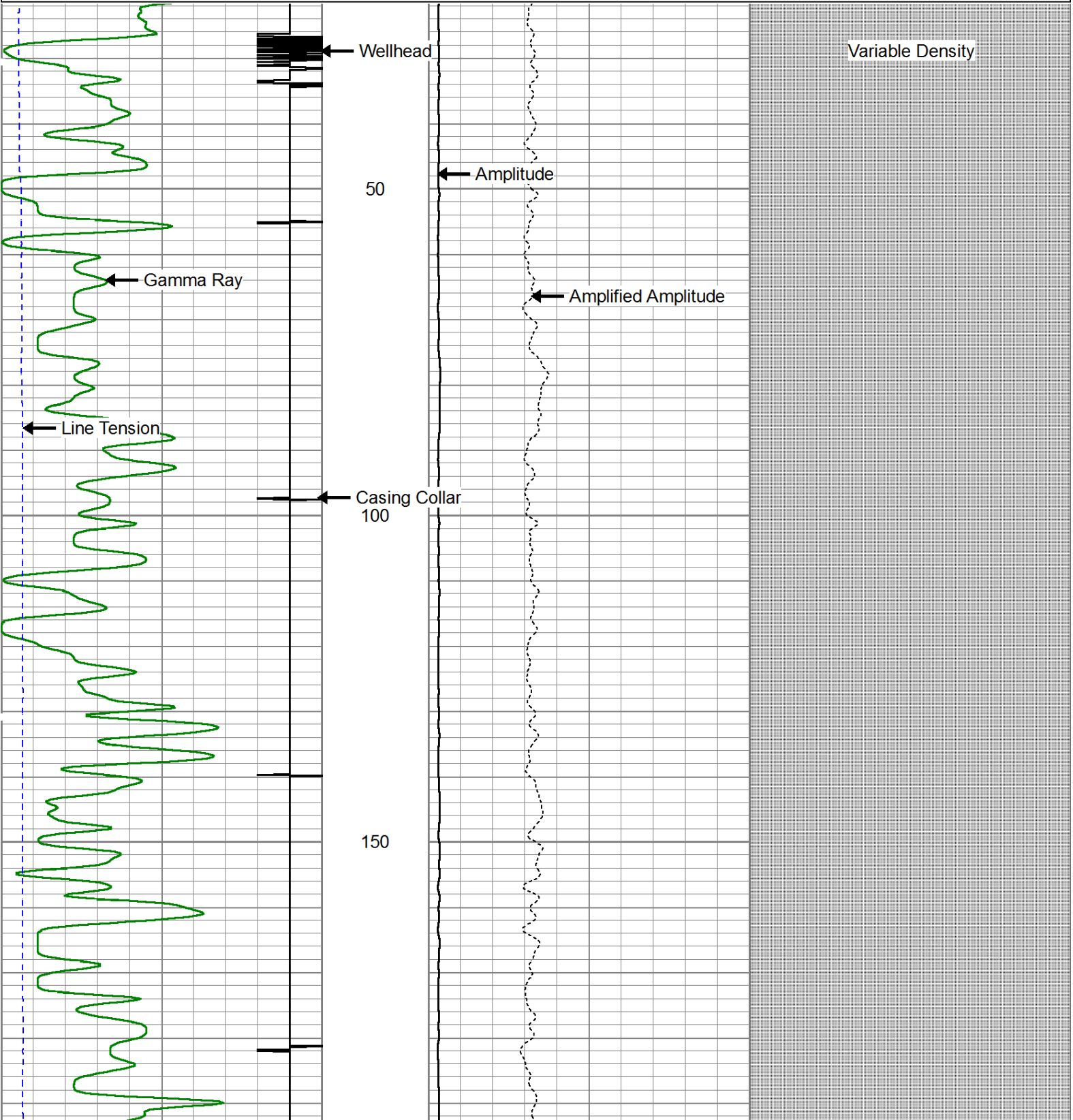
Main Pass (0 PSI)

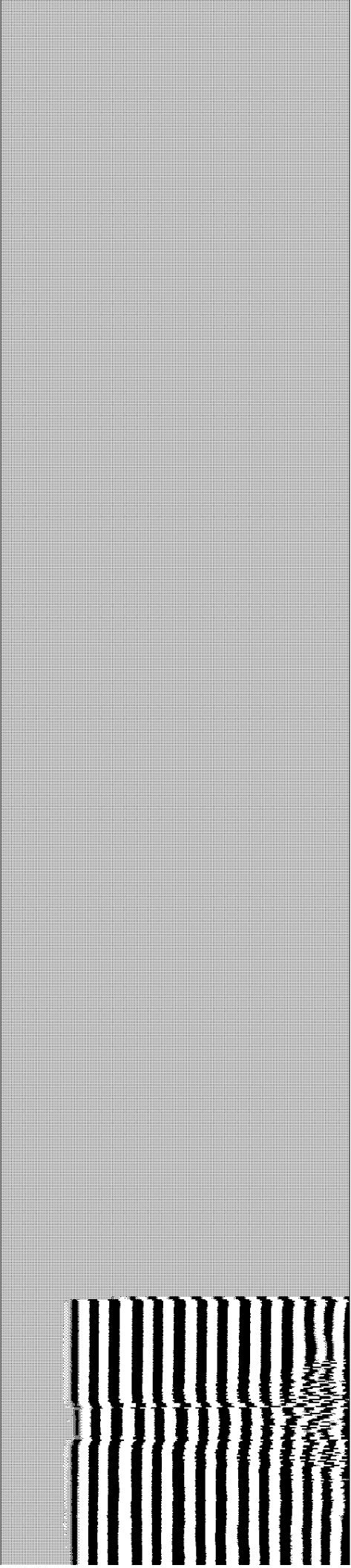
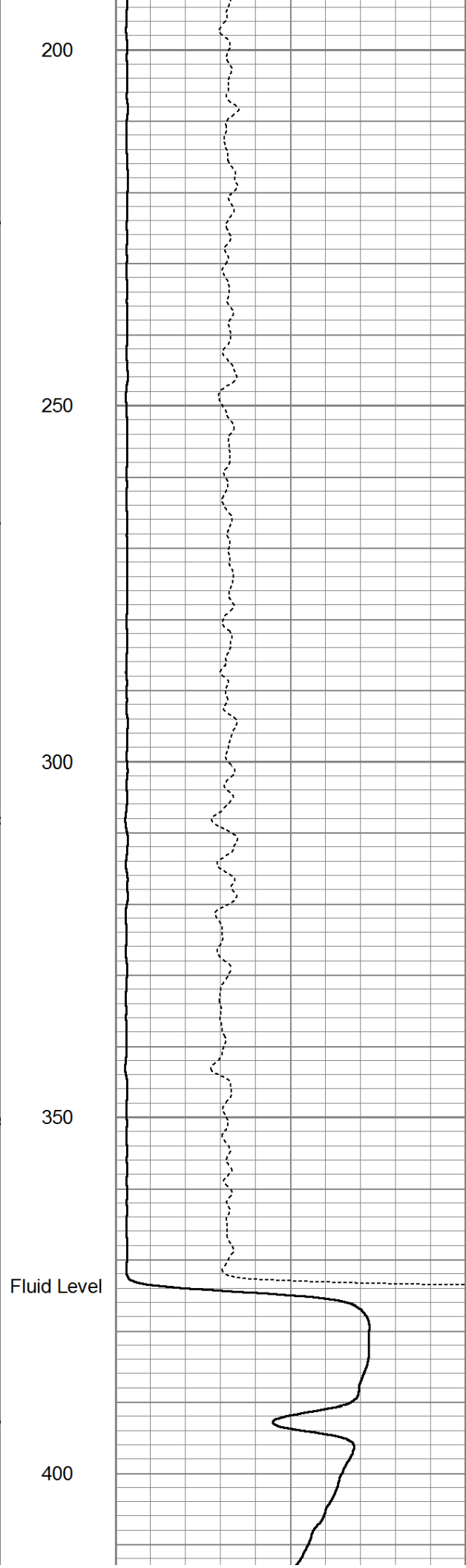
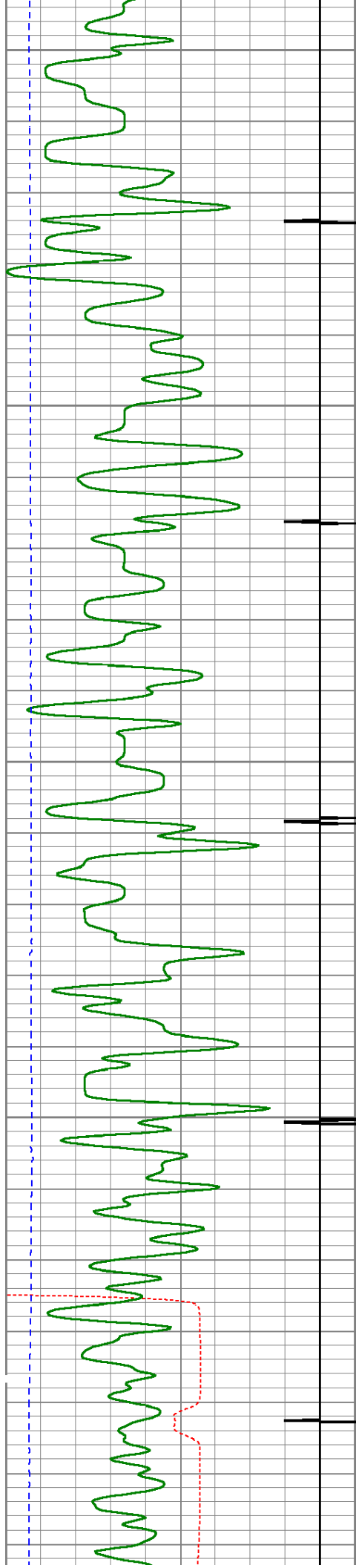
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Dataset Pathname: cbl/pass4.1
Presentation Format: cblprobe
Dataset Creation: Mon Apr 29 18:09:36 2013 by Calc 0
Charted by: Depth in Feet scaled 1:240

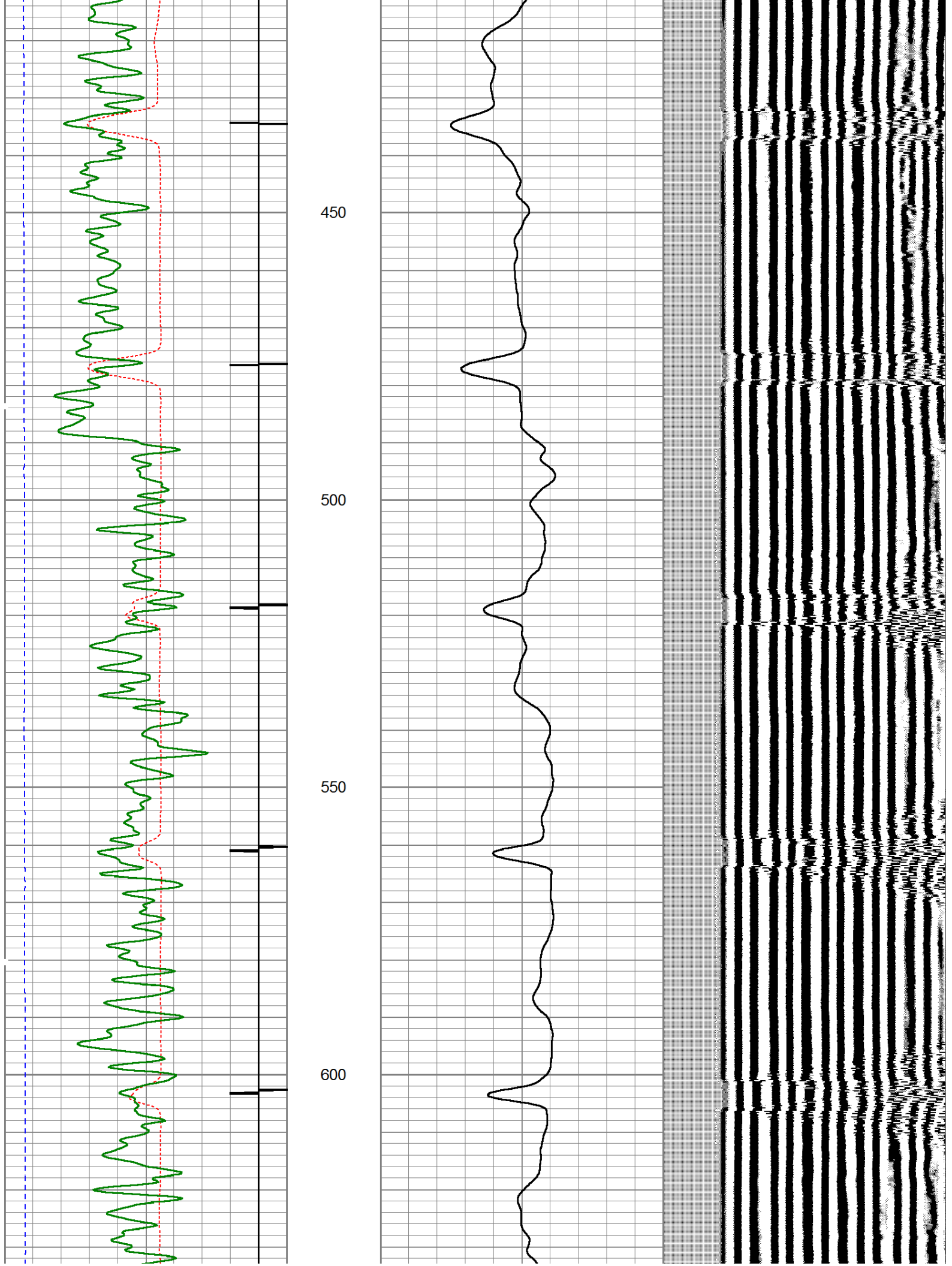
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

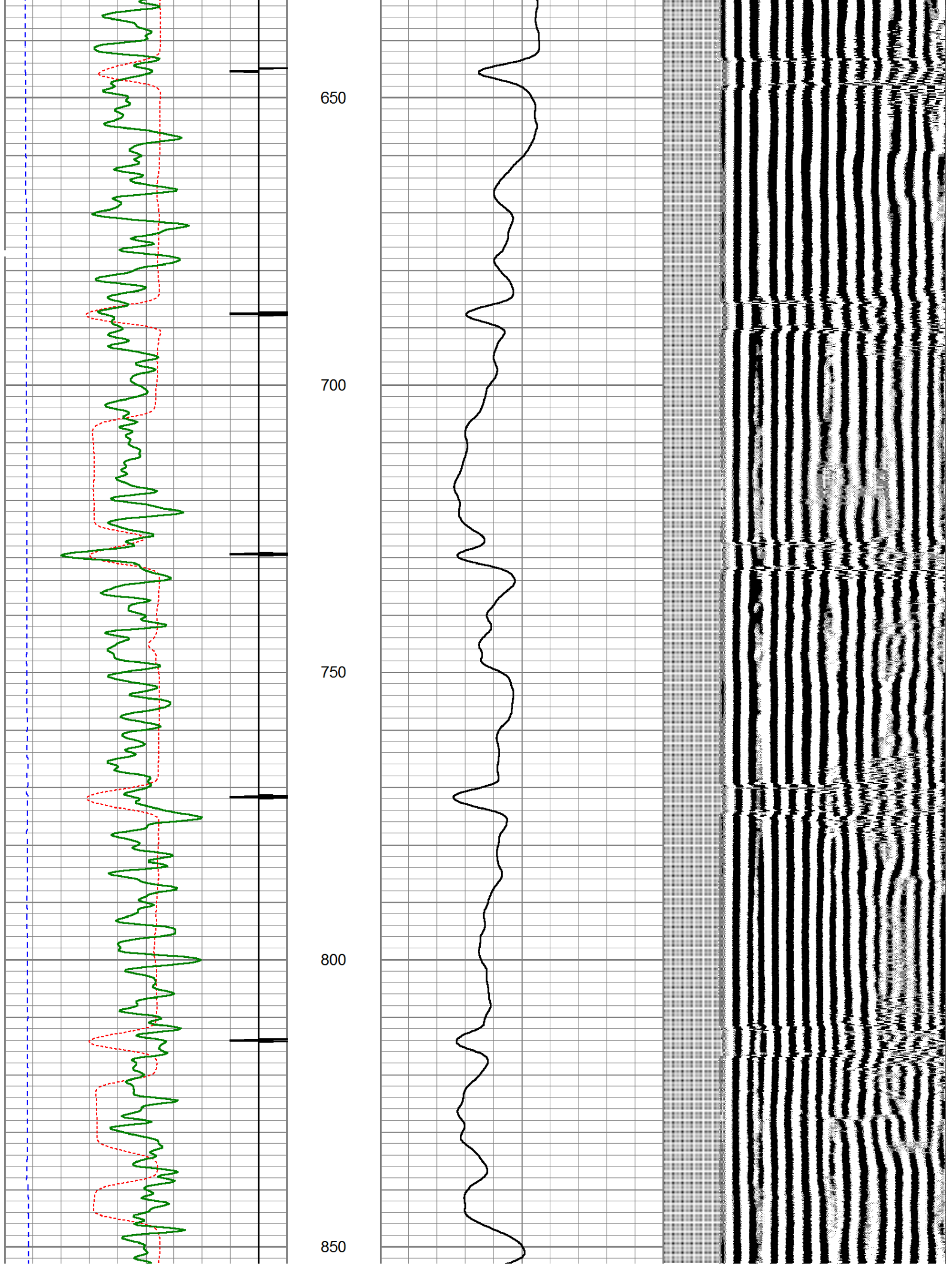
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10

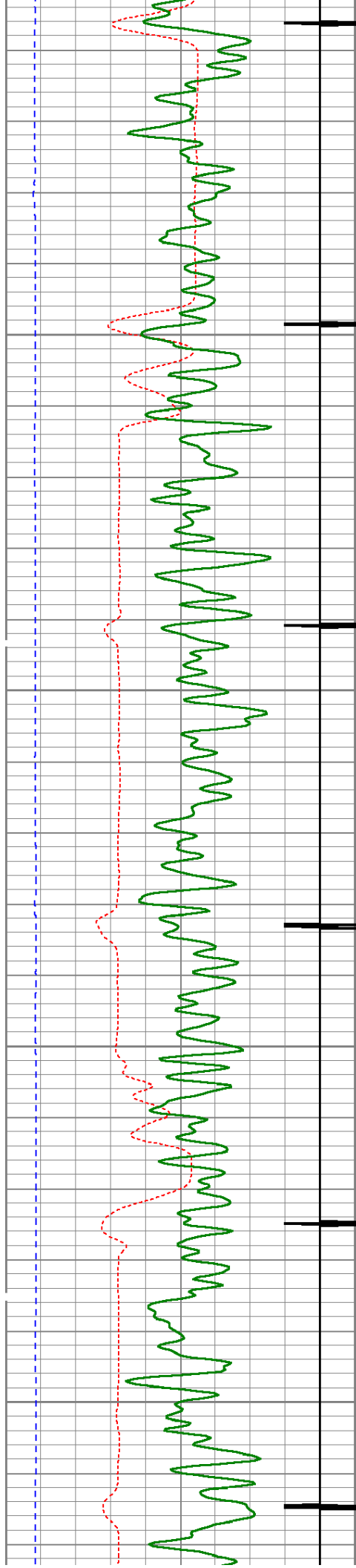
200 Variable Density 1200









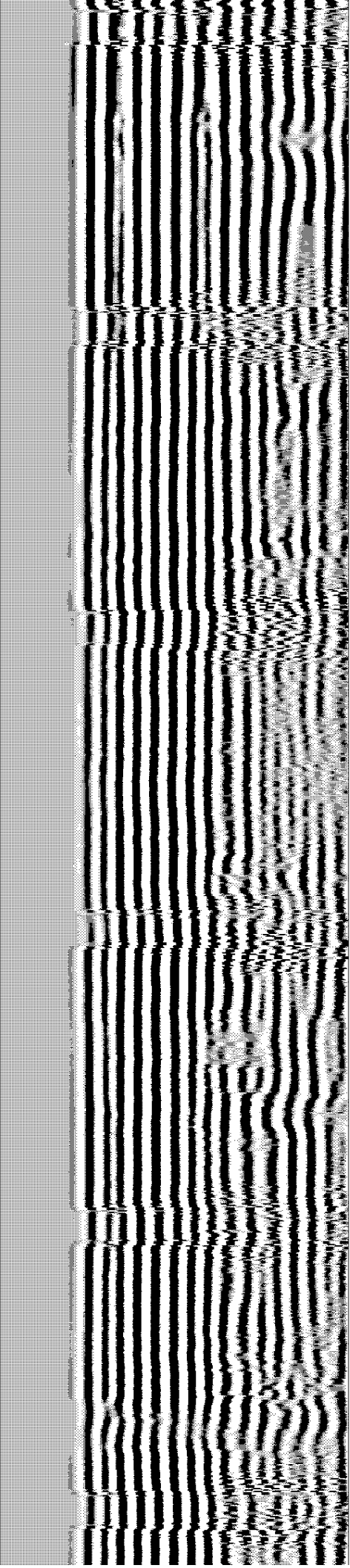
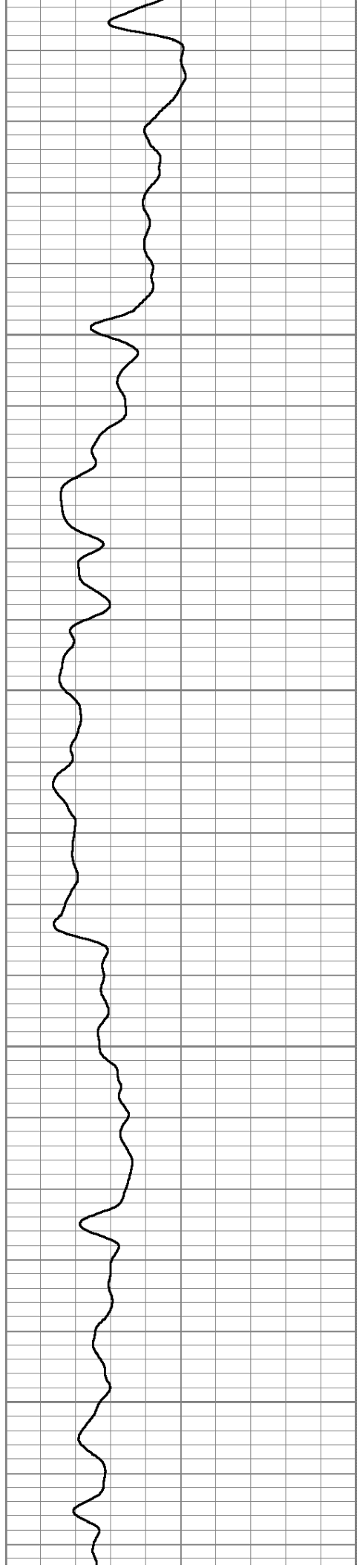


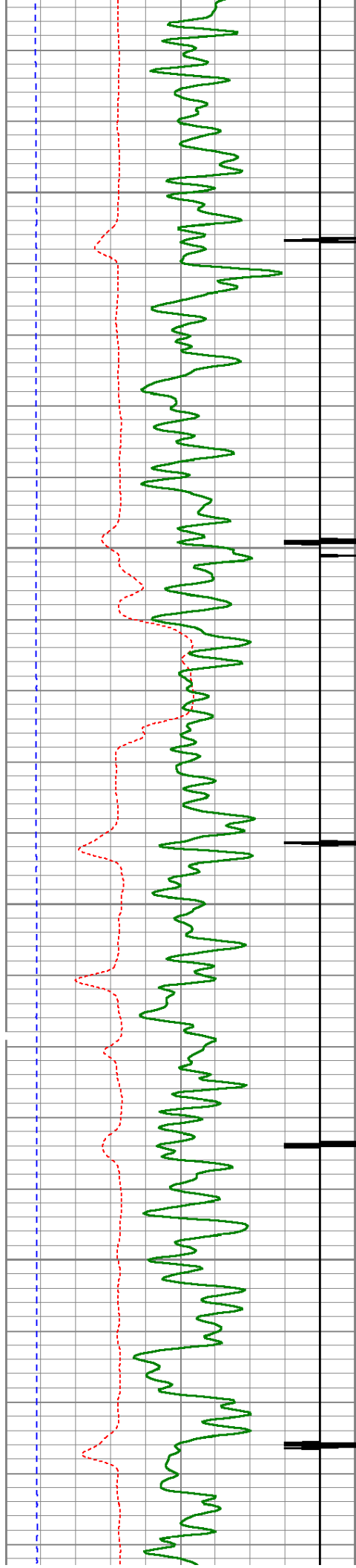
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950

1000

1050



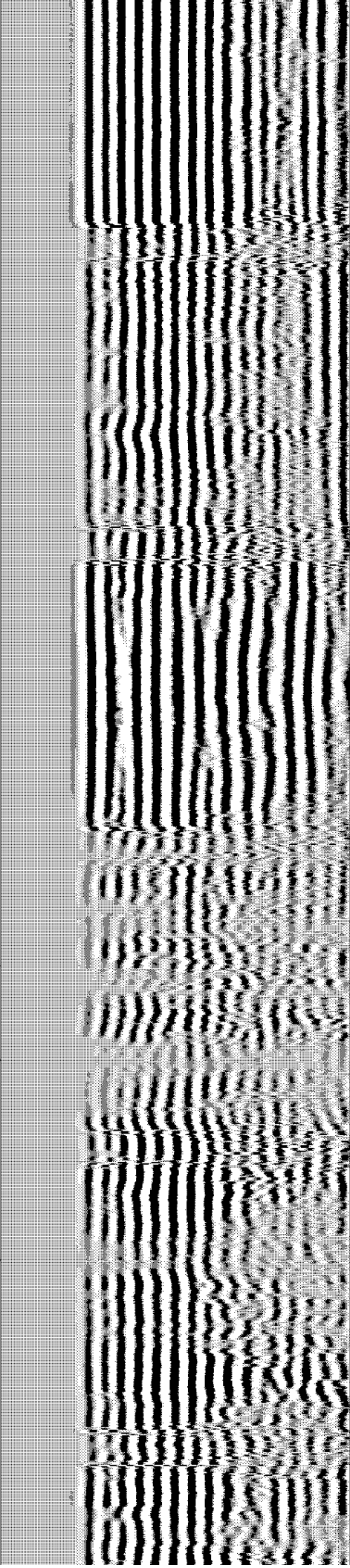
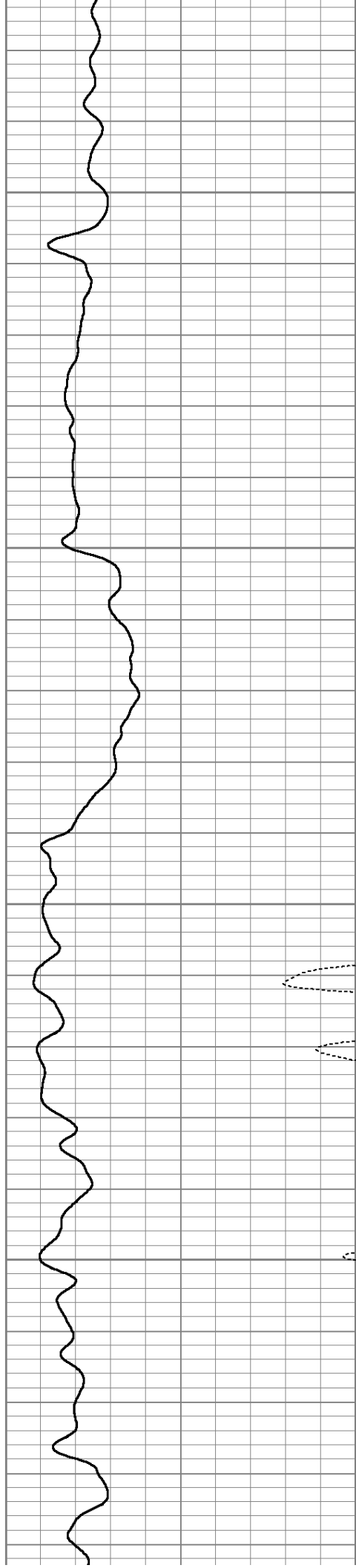


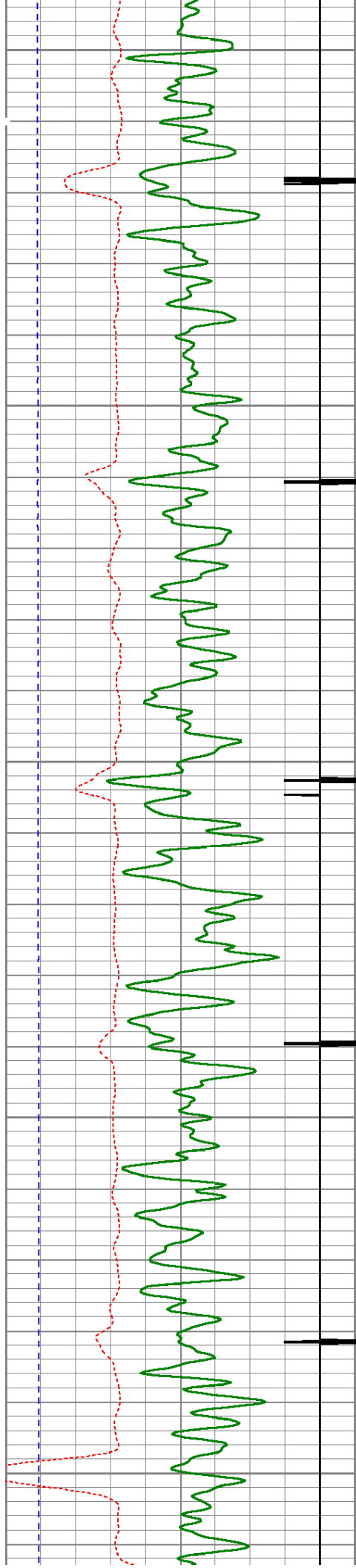
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1150

1200

1250





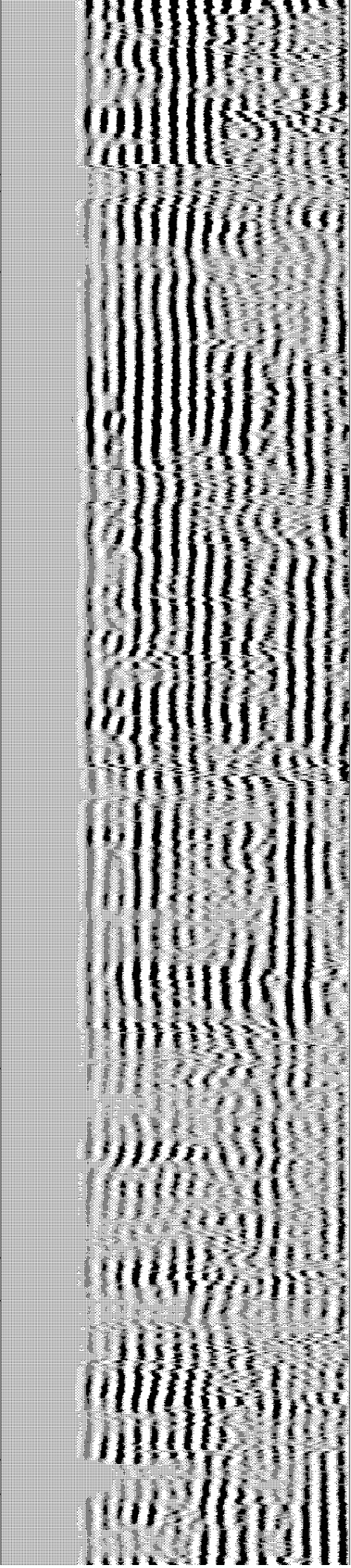
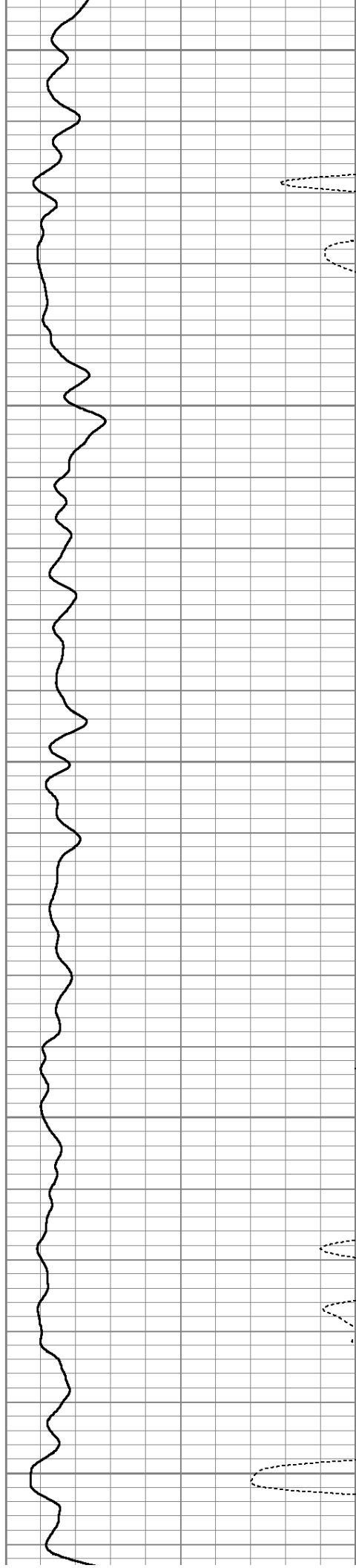
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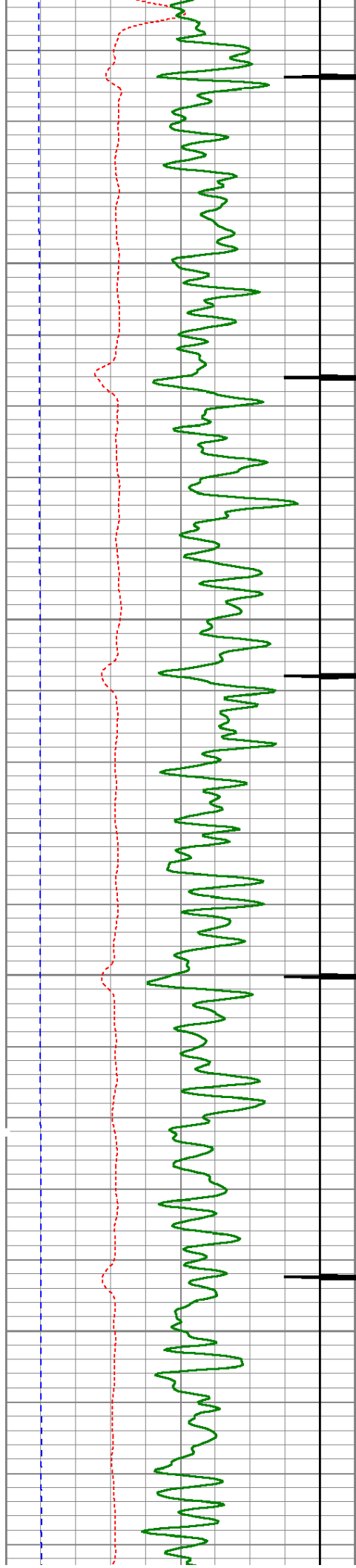
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1400

1450

1500



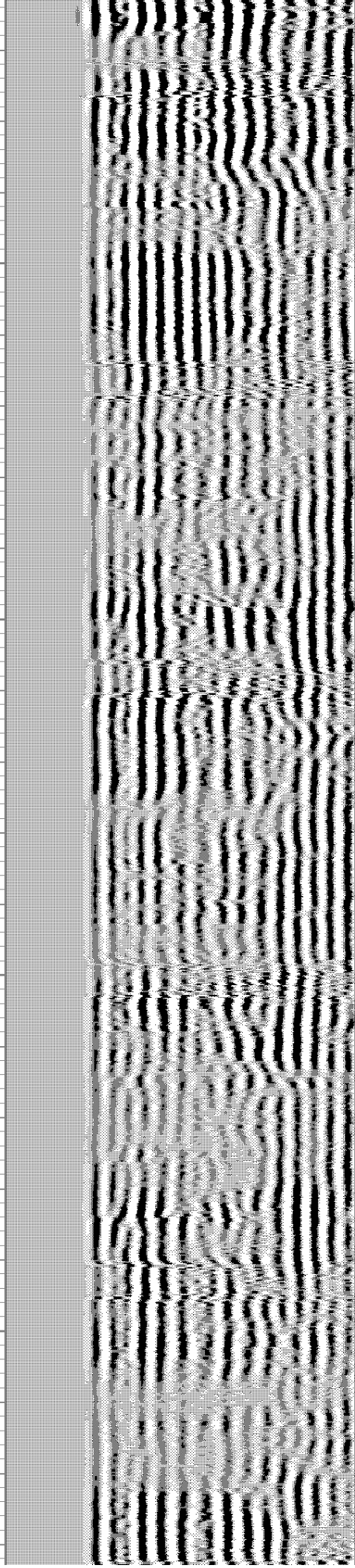
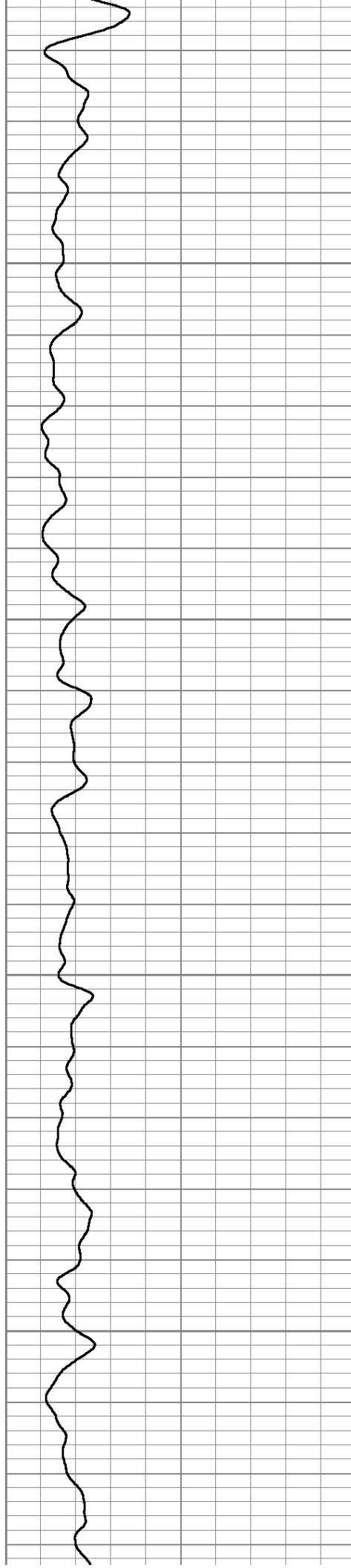


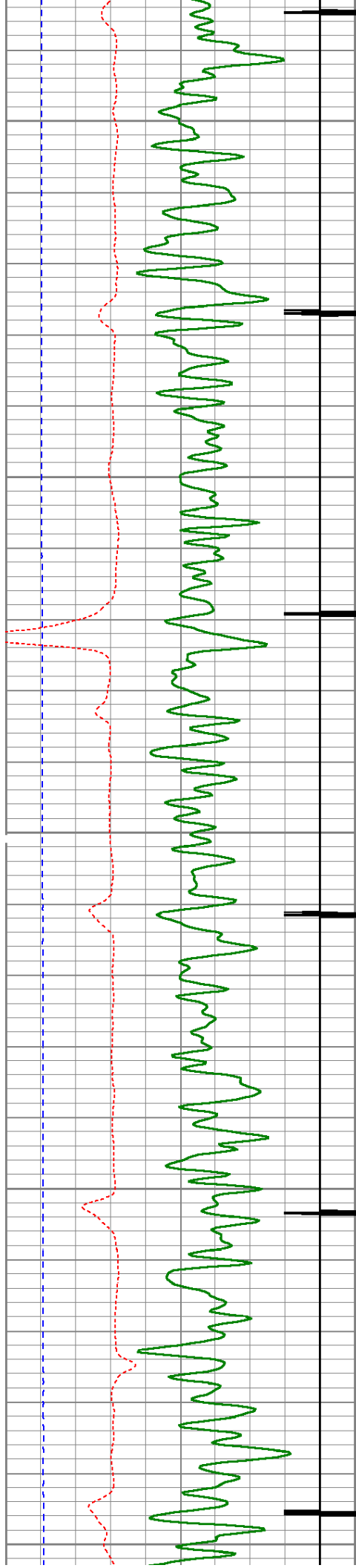
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1600

1650

1700





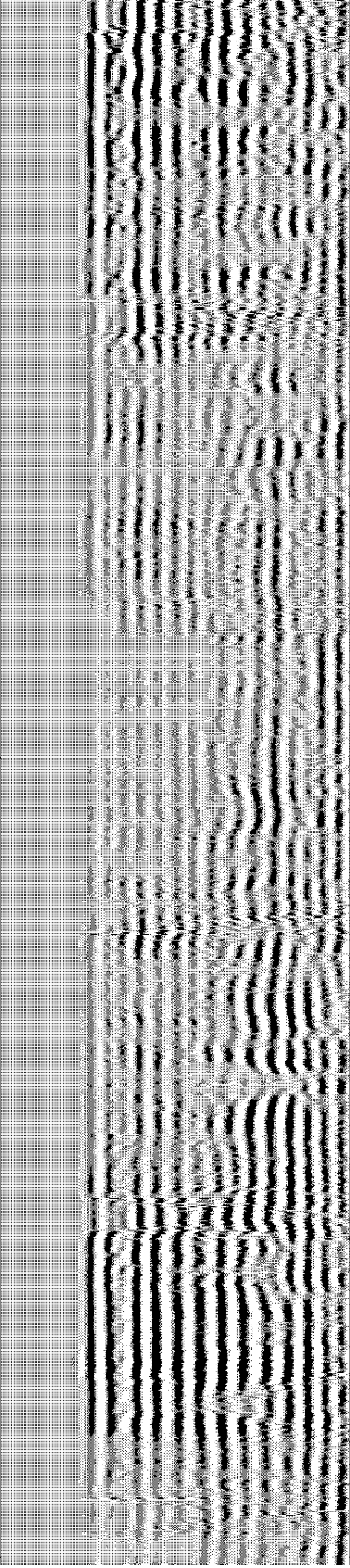
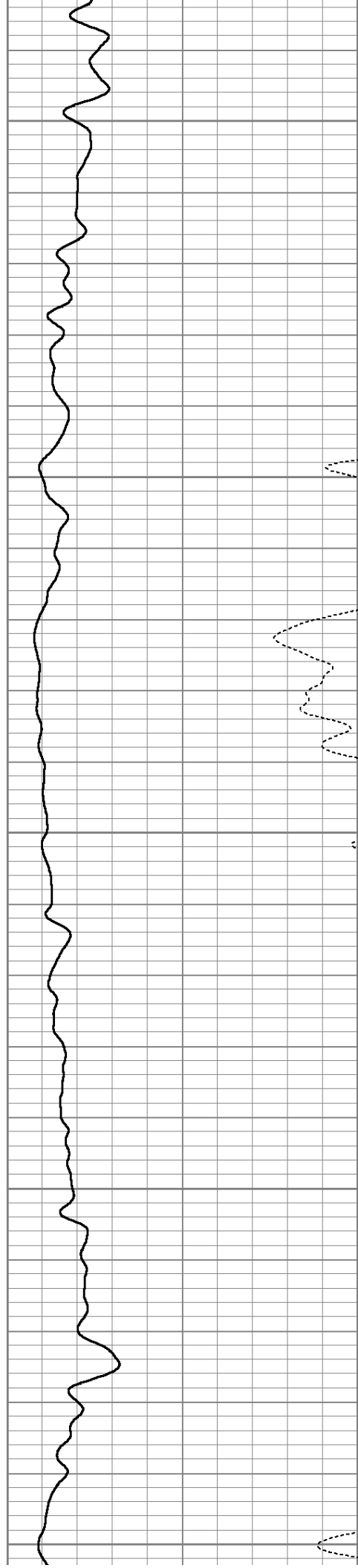
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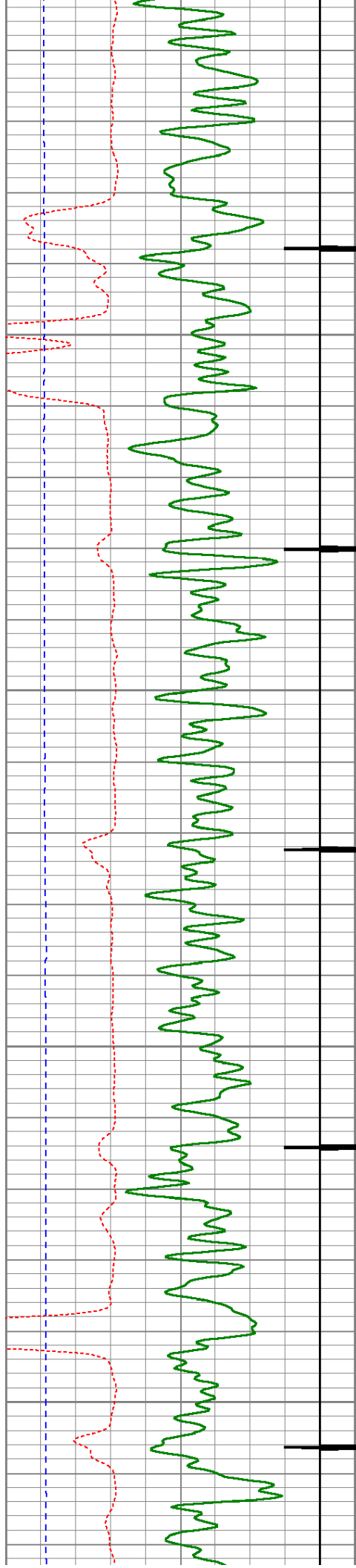
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1850

1900

1950



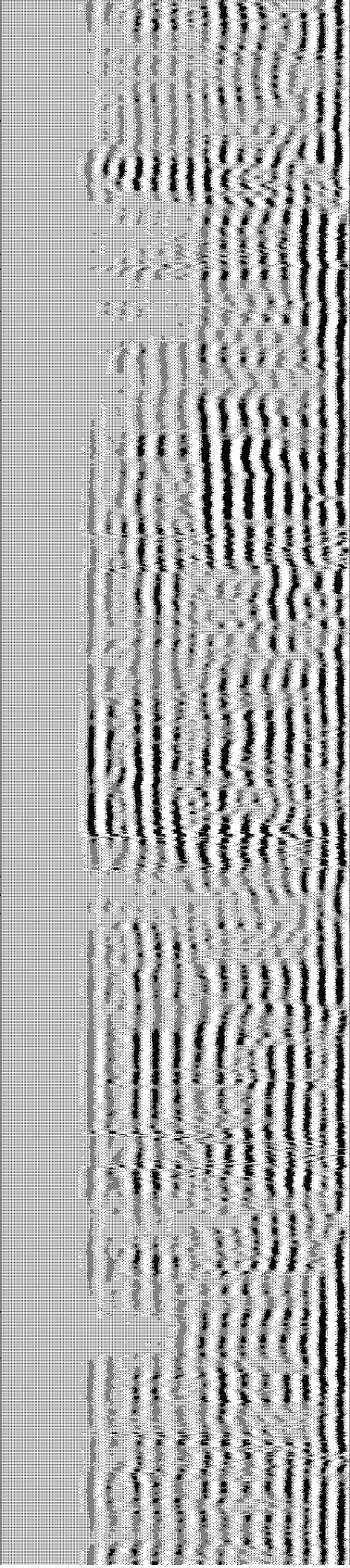
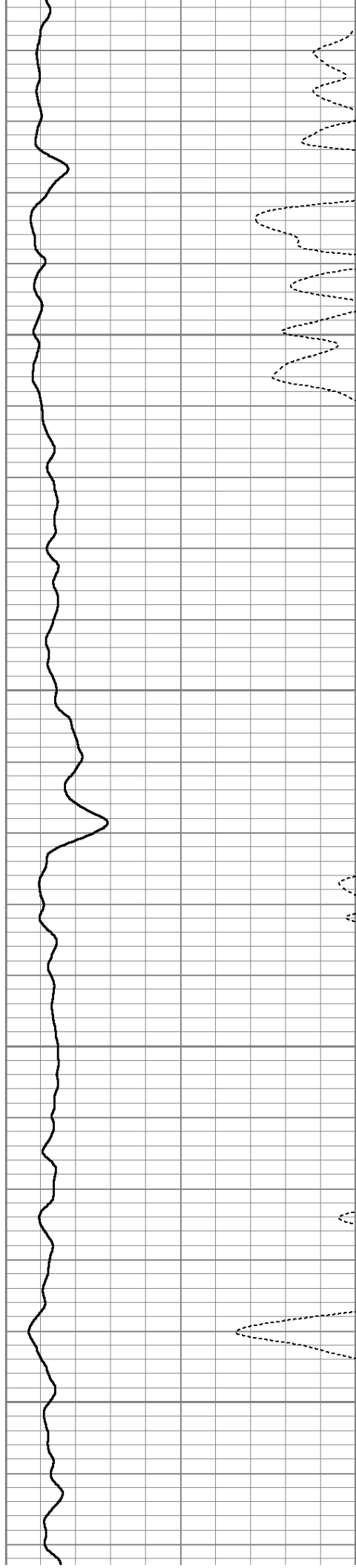


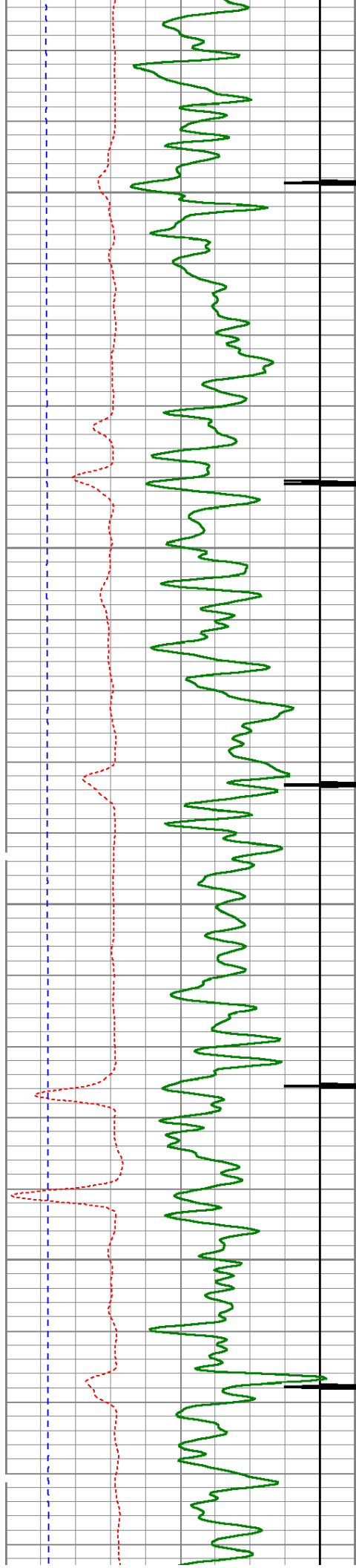
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2050

2100

2150



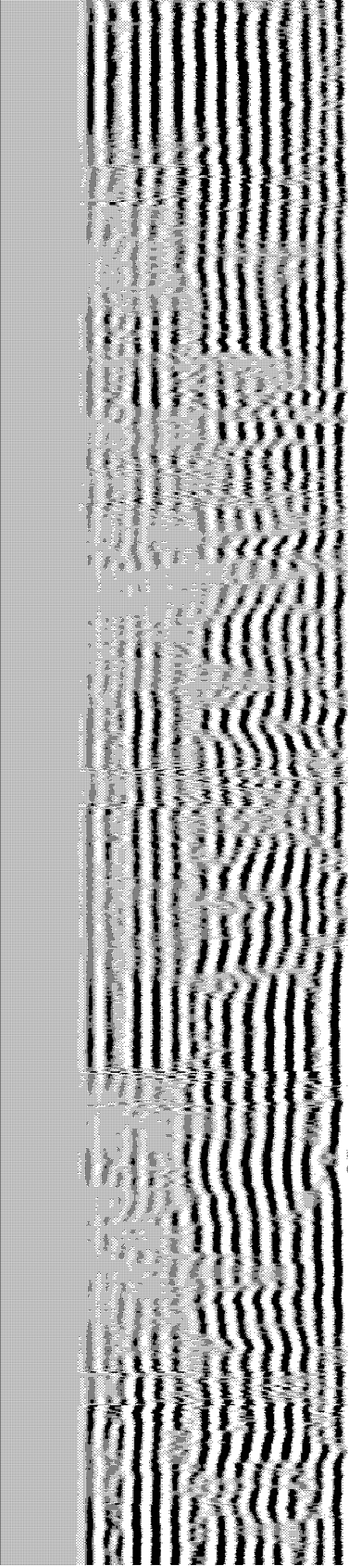
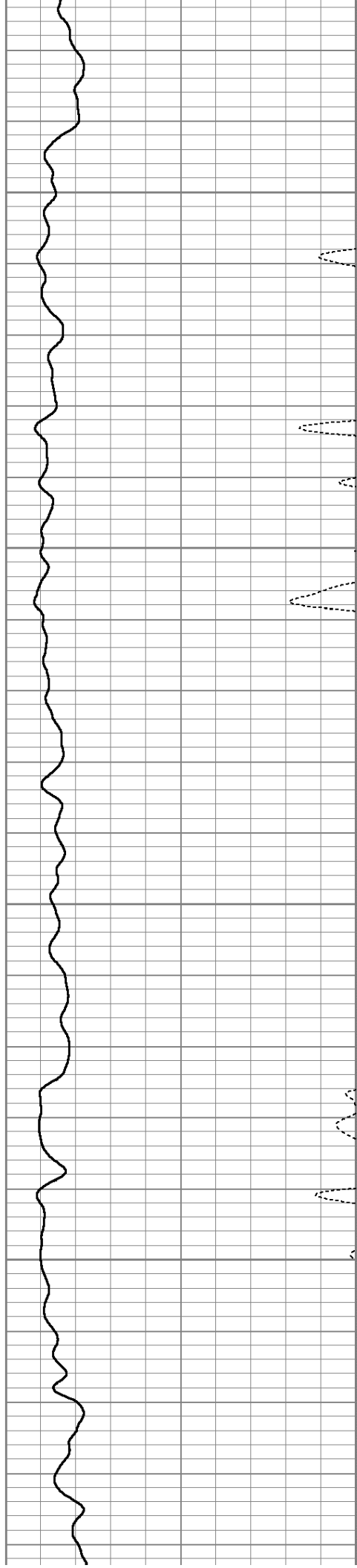


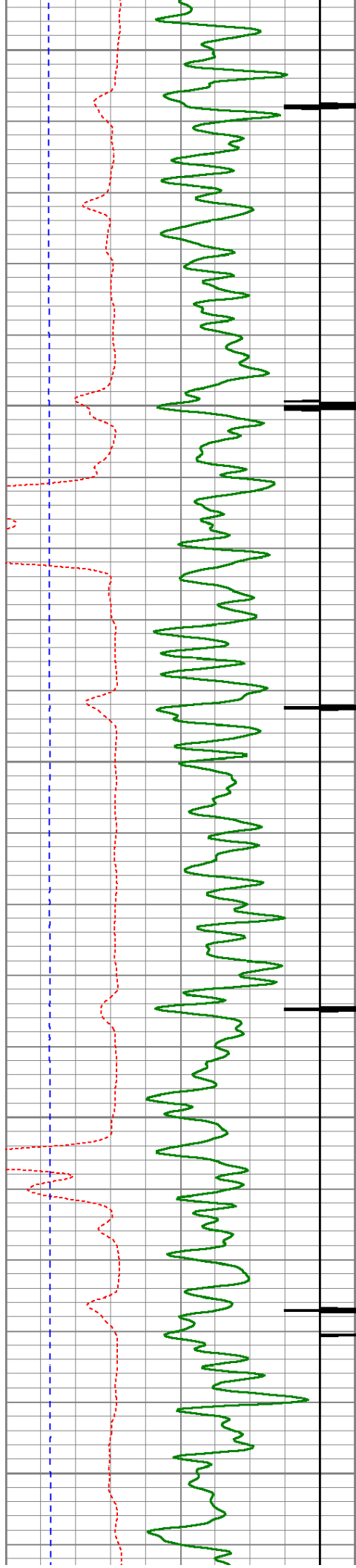
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2250

2300

2350





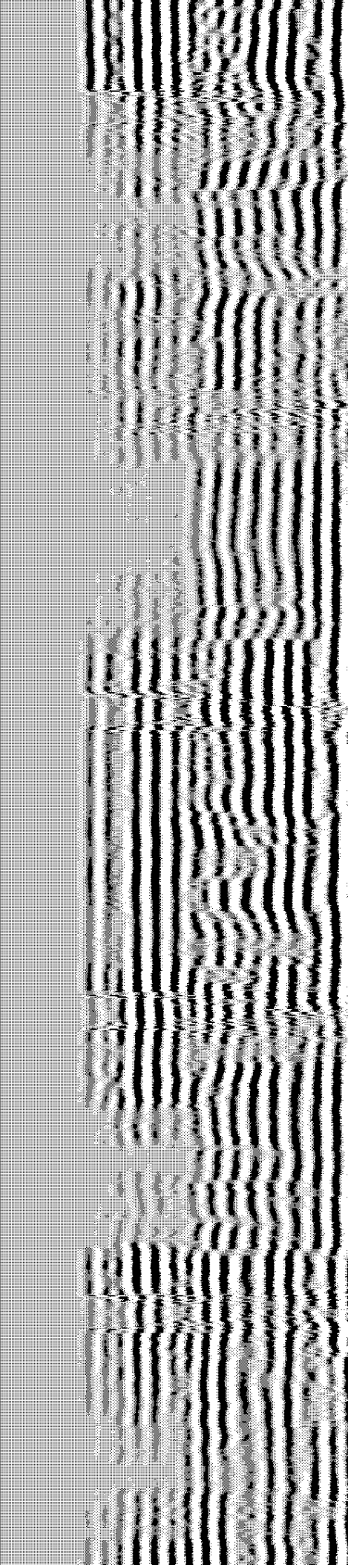
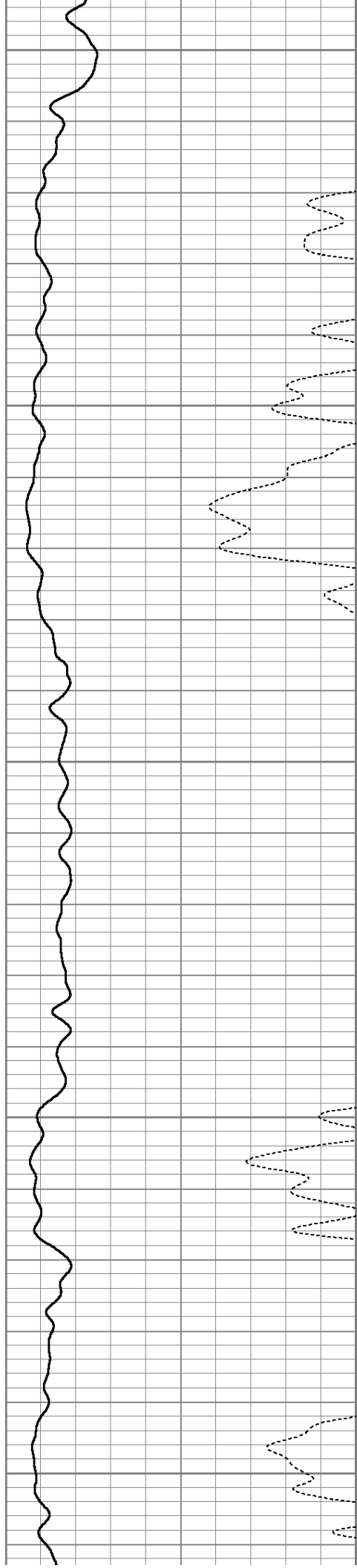
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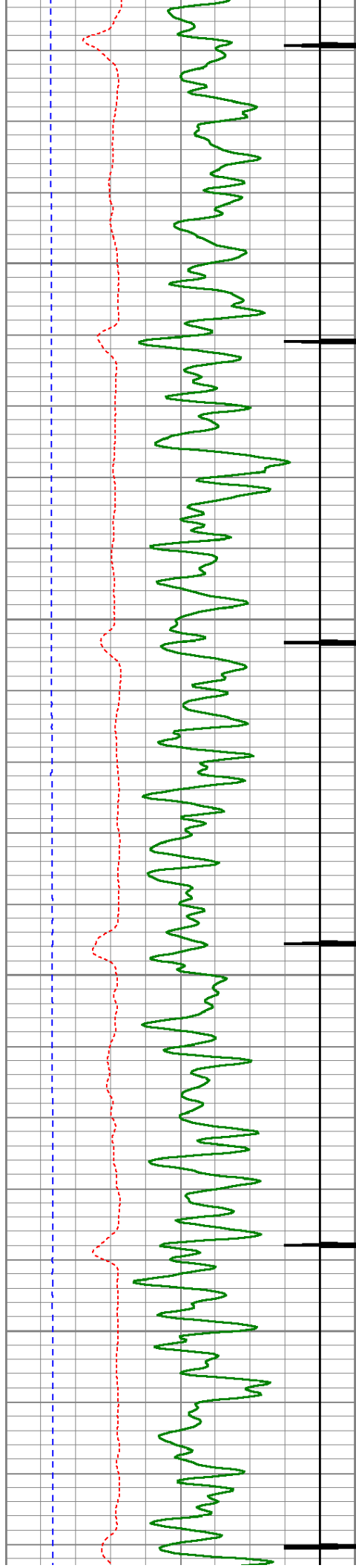
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2500

2550

2600



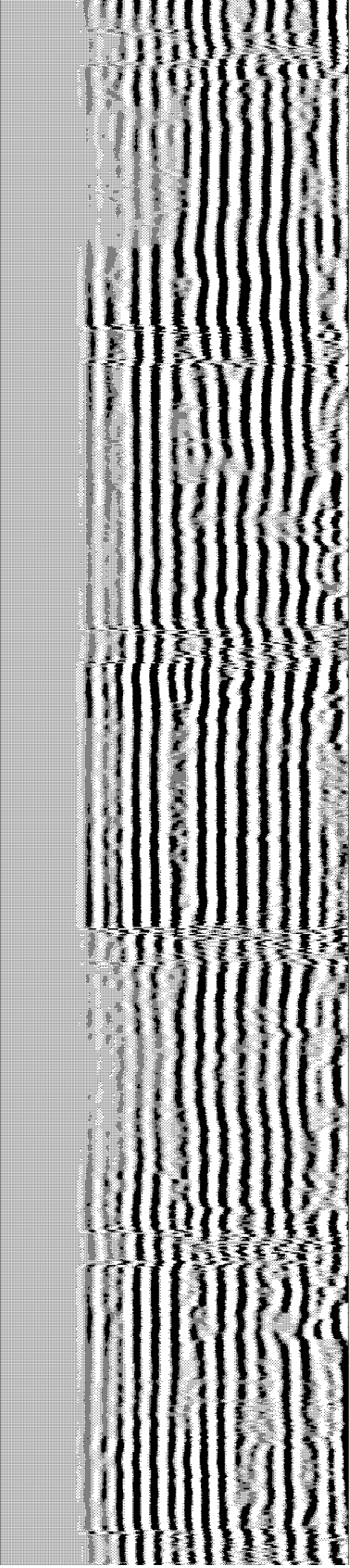
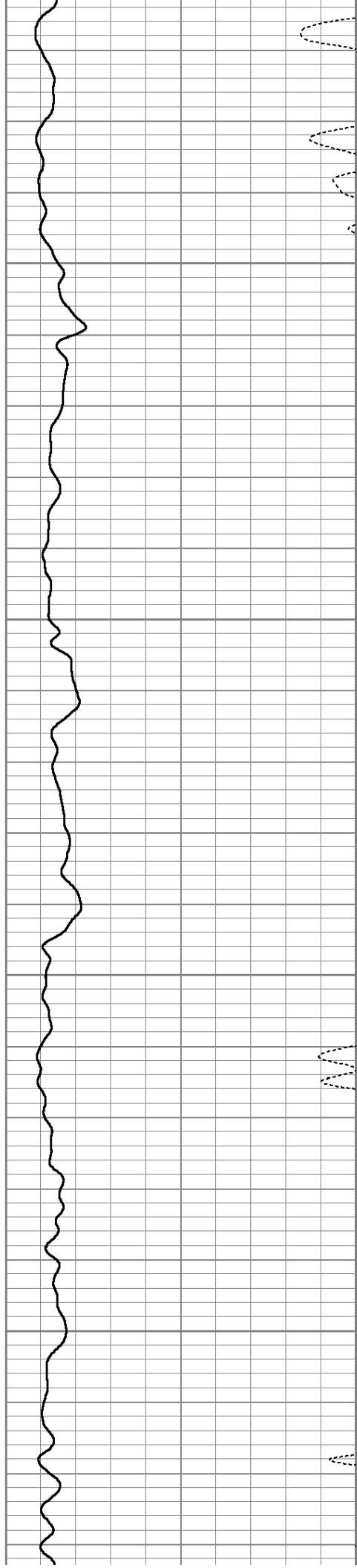


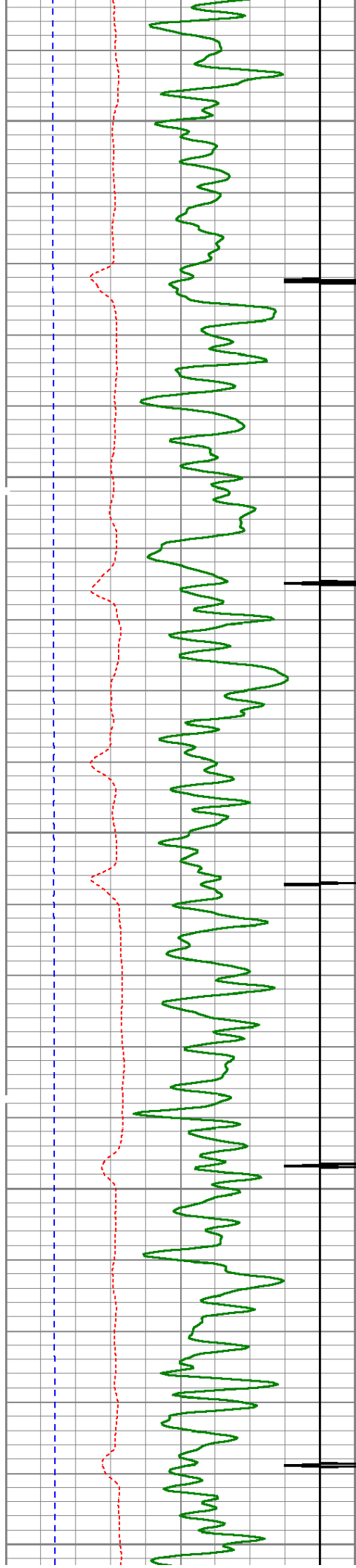
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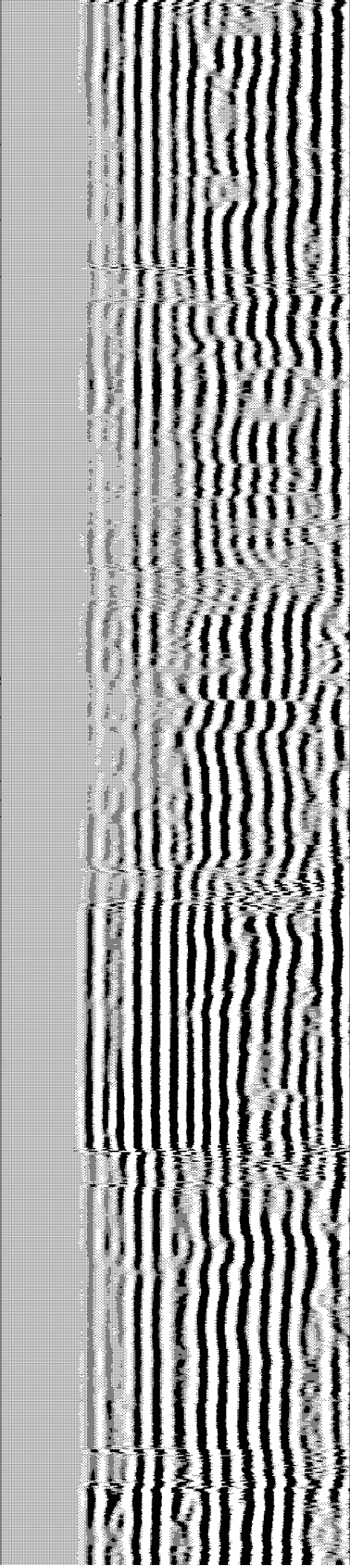
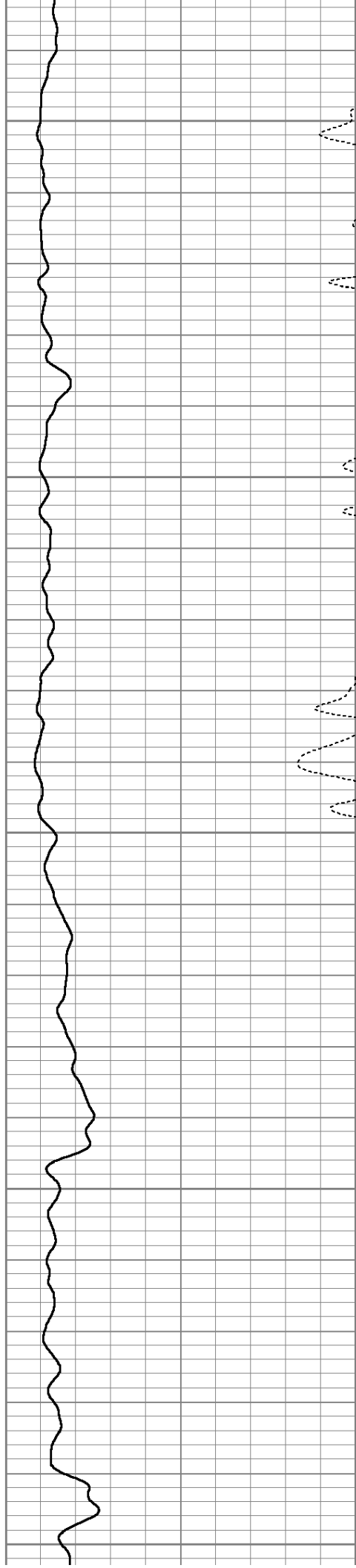
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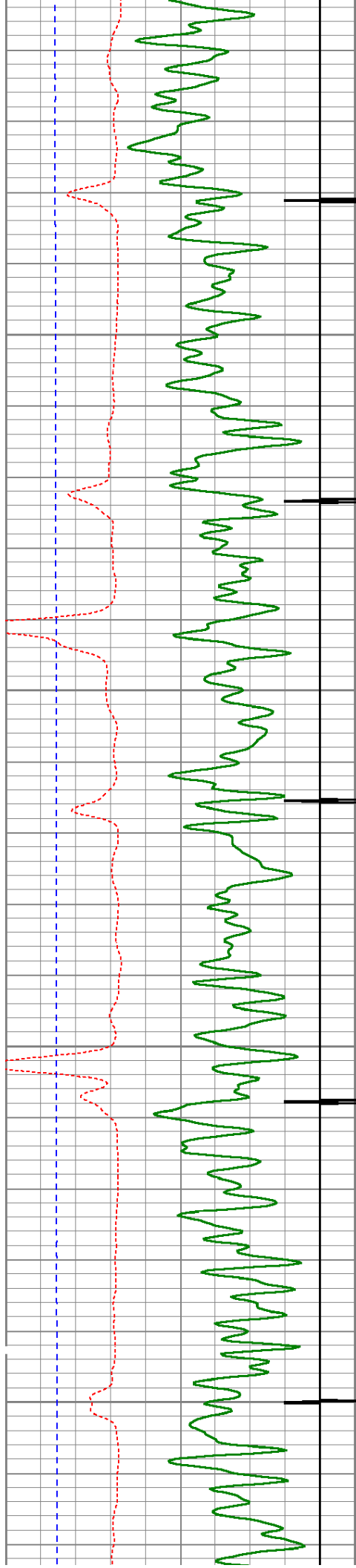
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2950

3000

3050



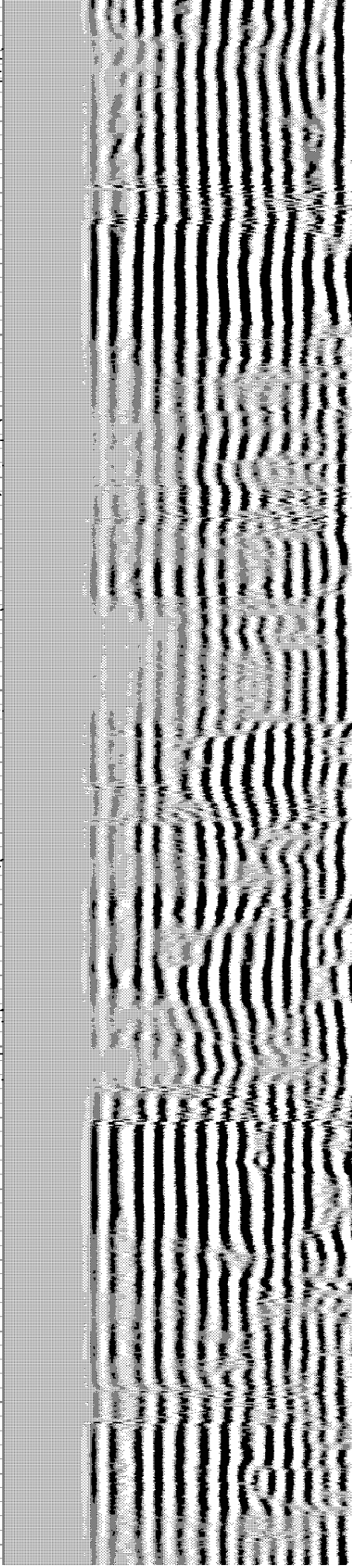
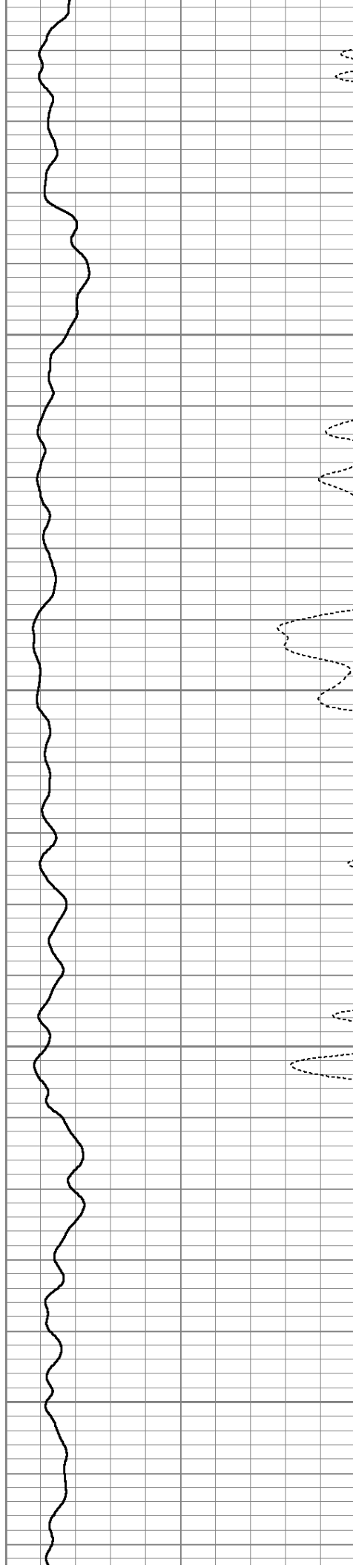


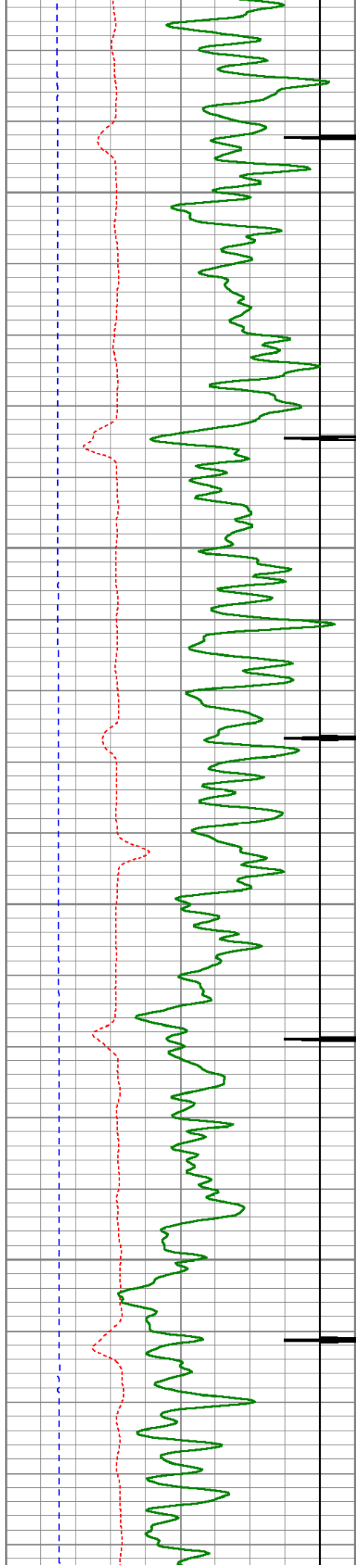
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3150

3200

3250



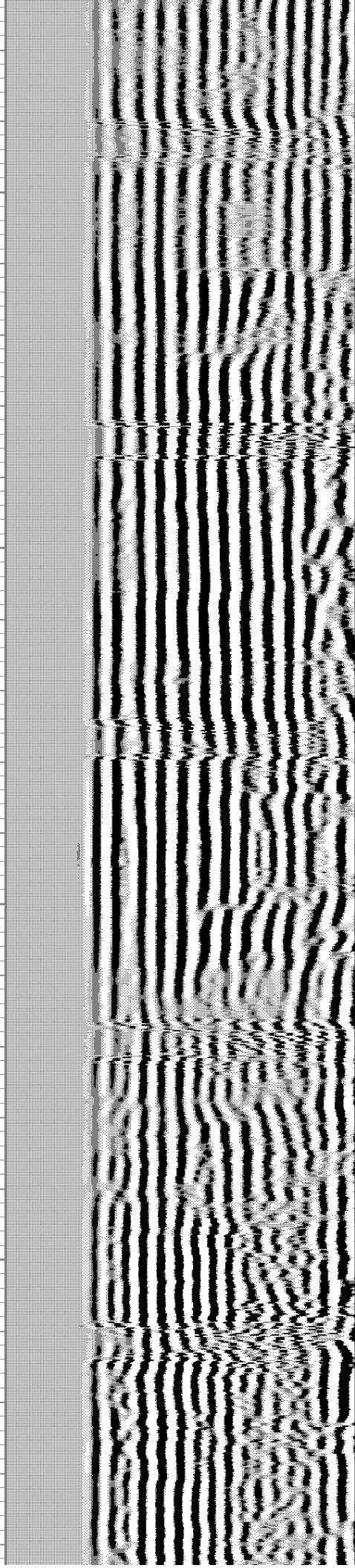
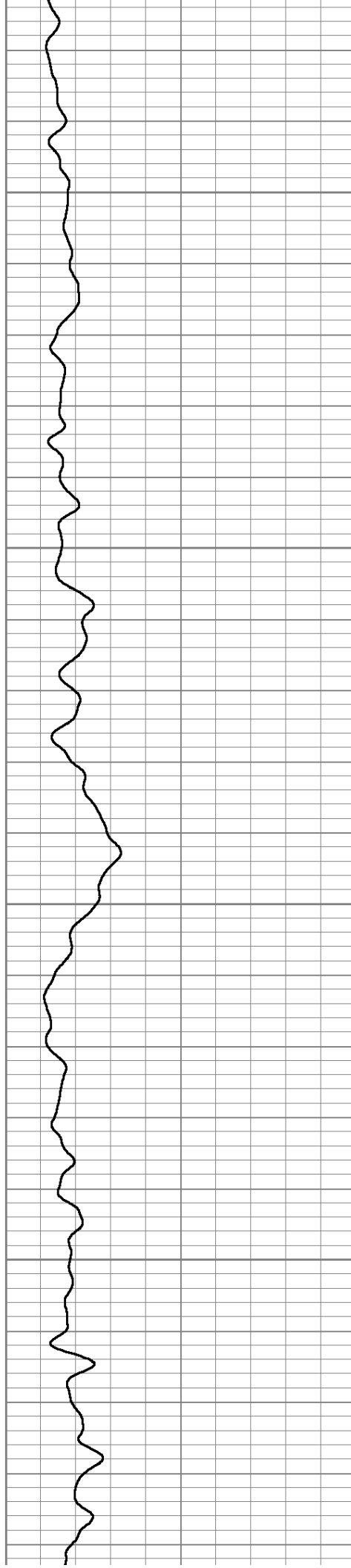


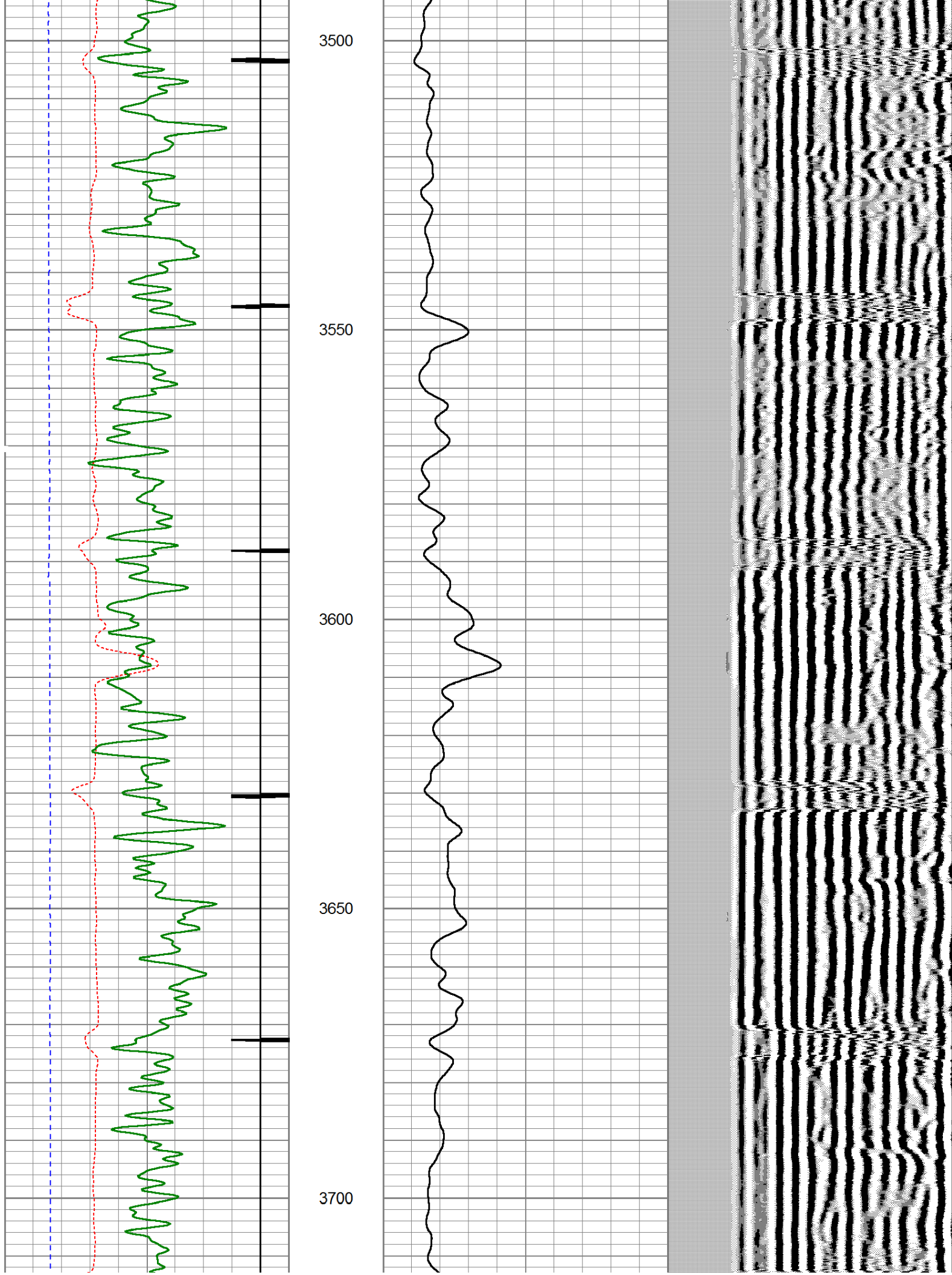
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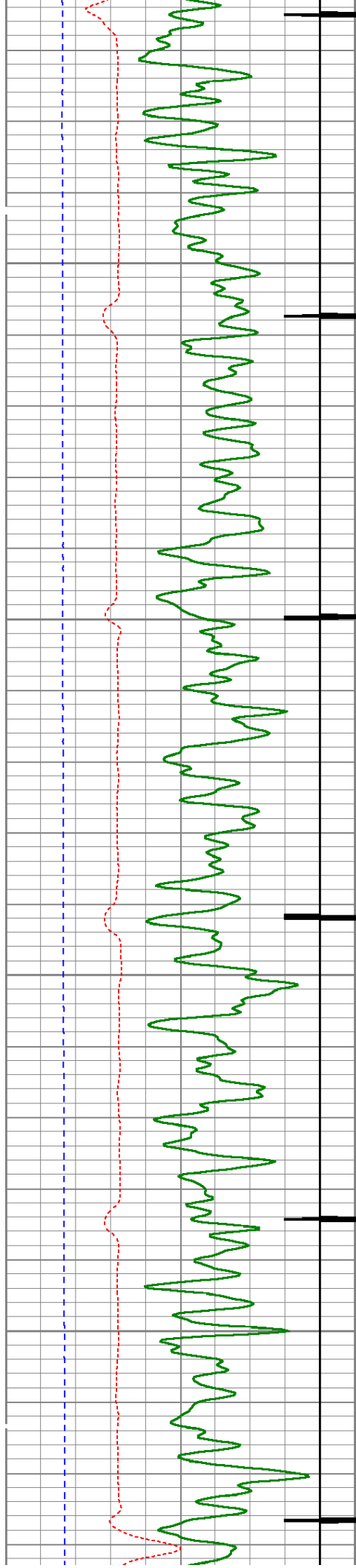
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3450





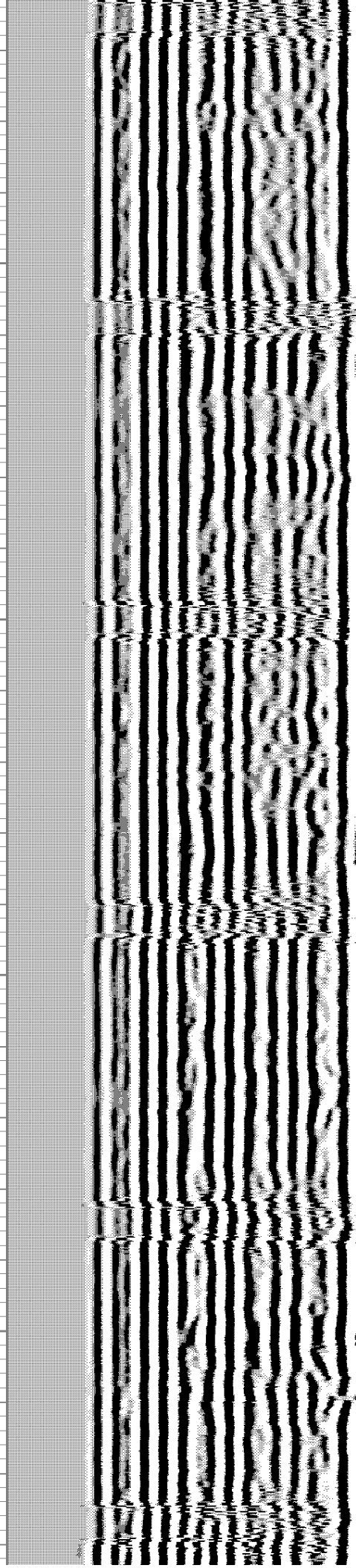
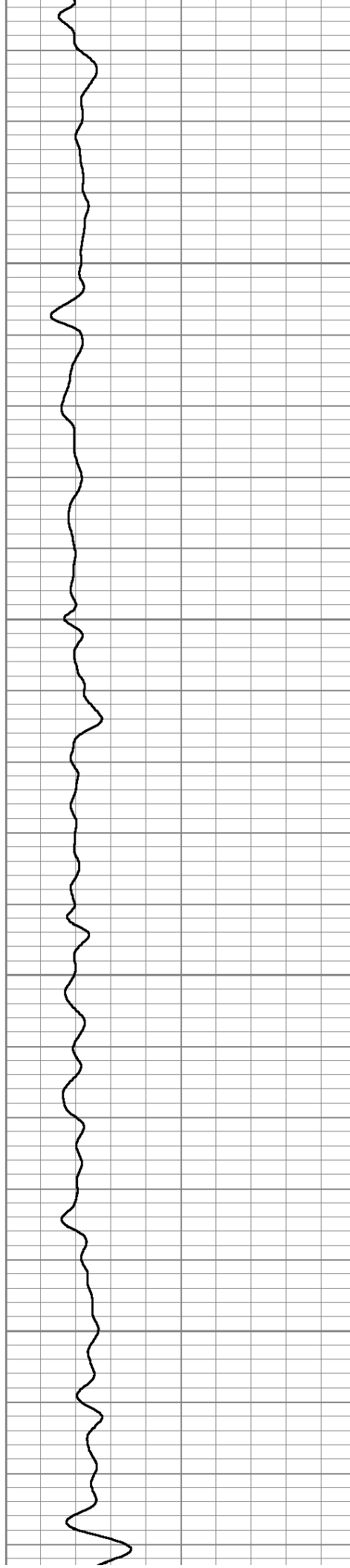


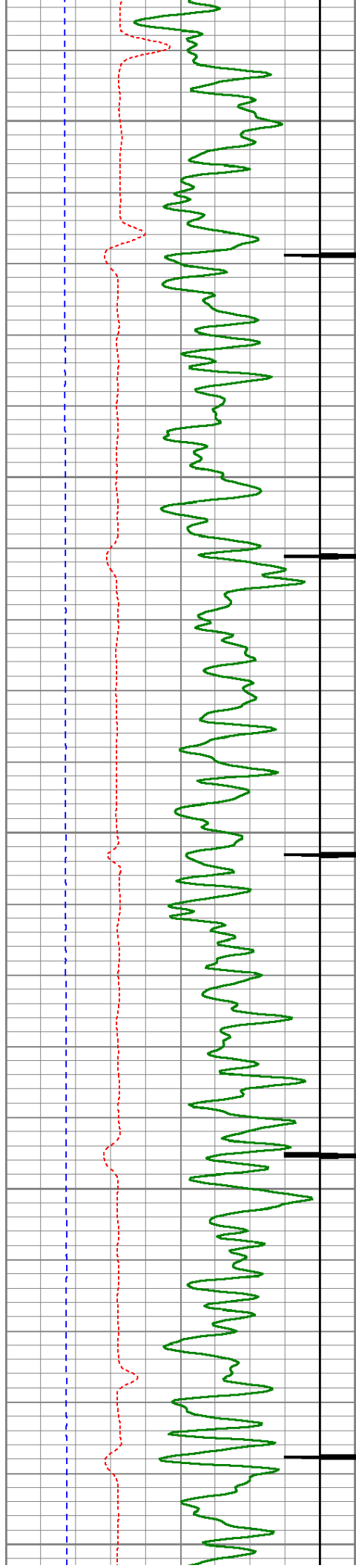
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3850

3900





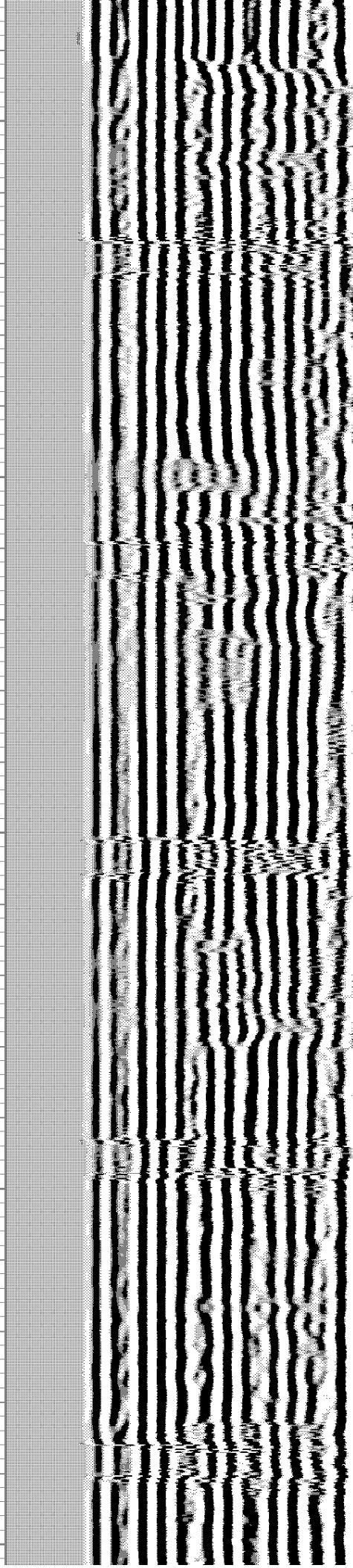
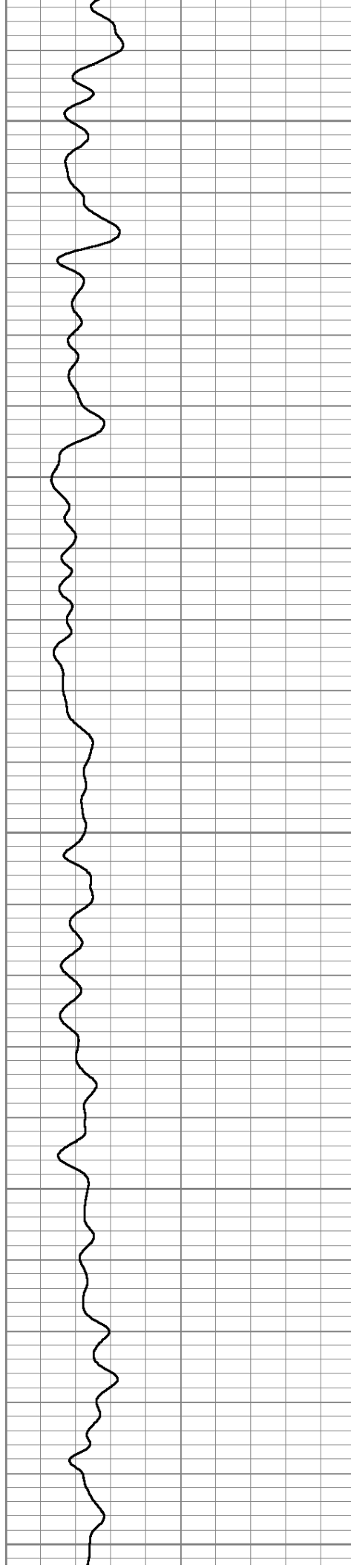
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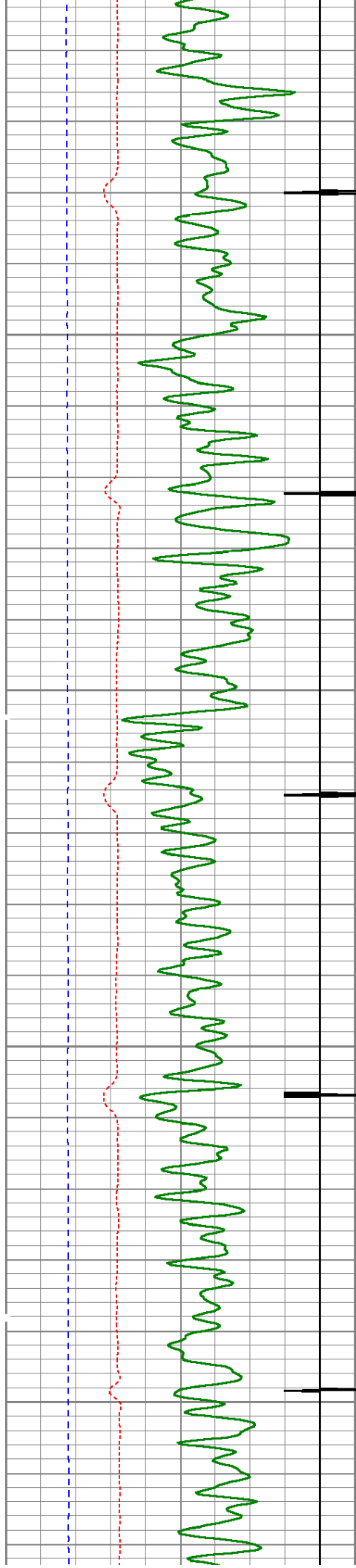
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4050

4100

4150



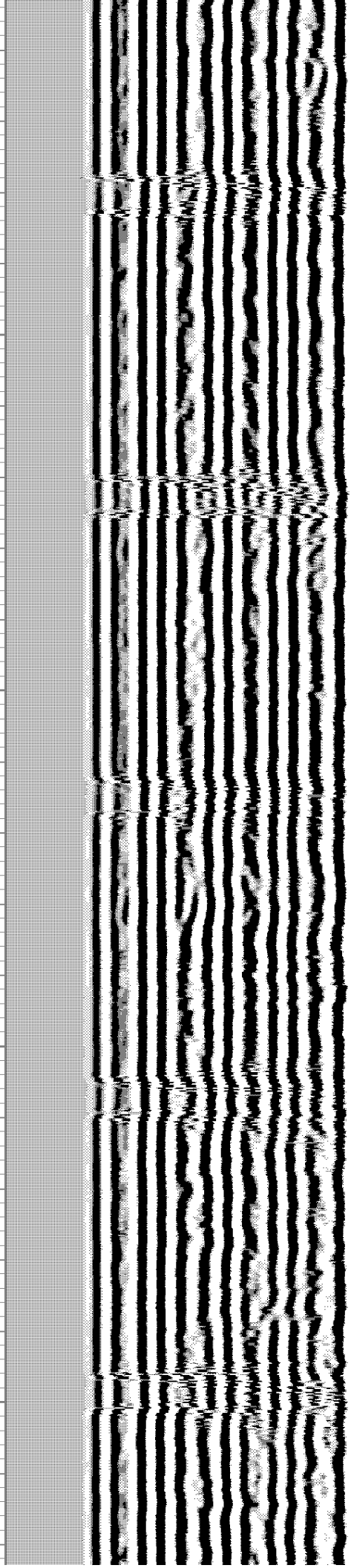
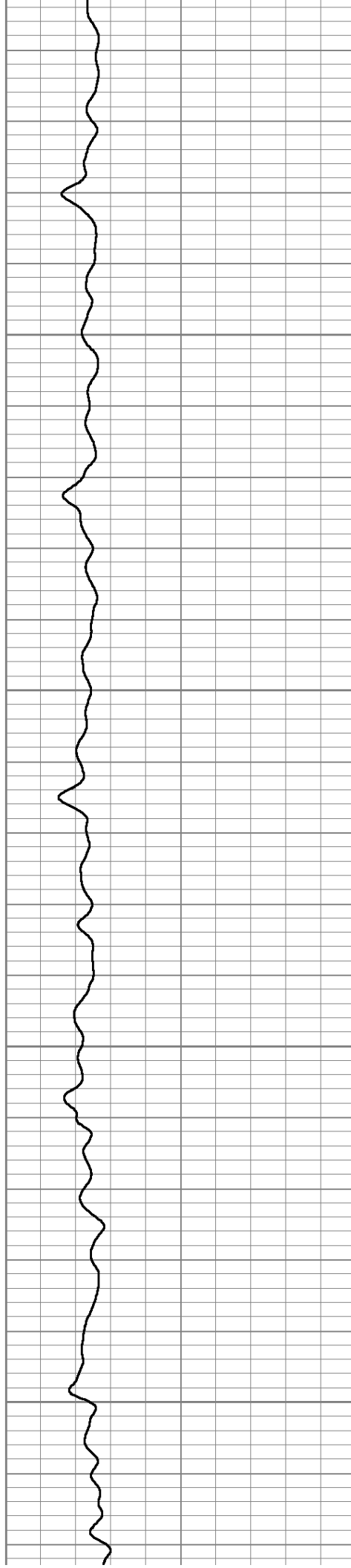


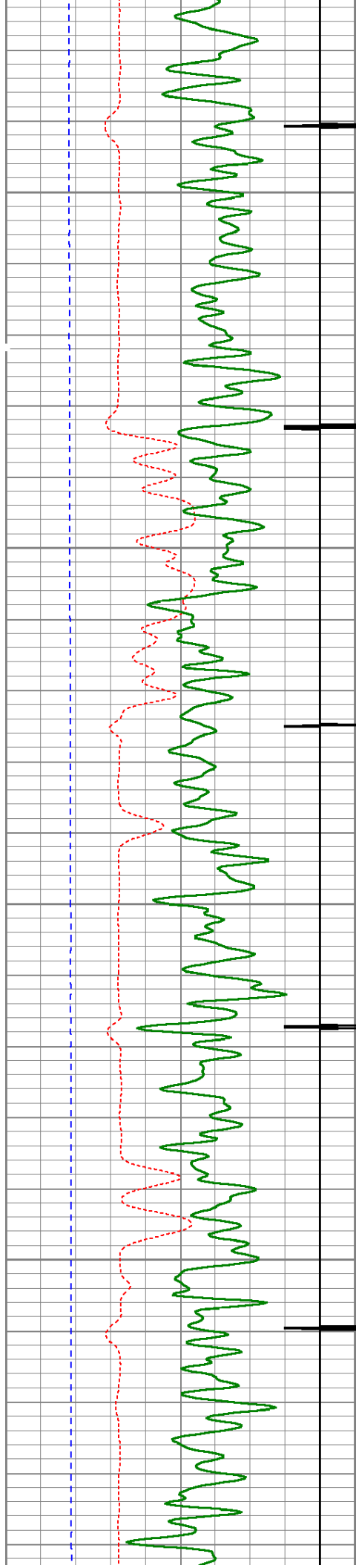
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4300

4350



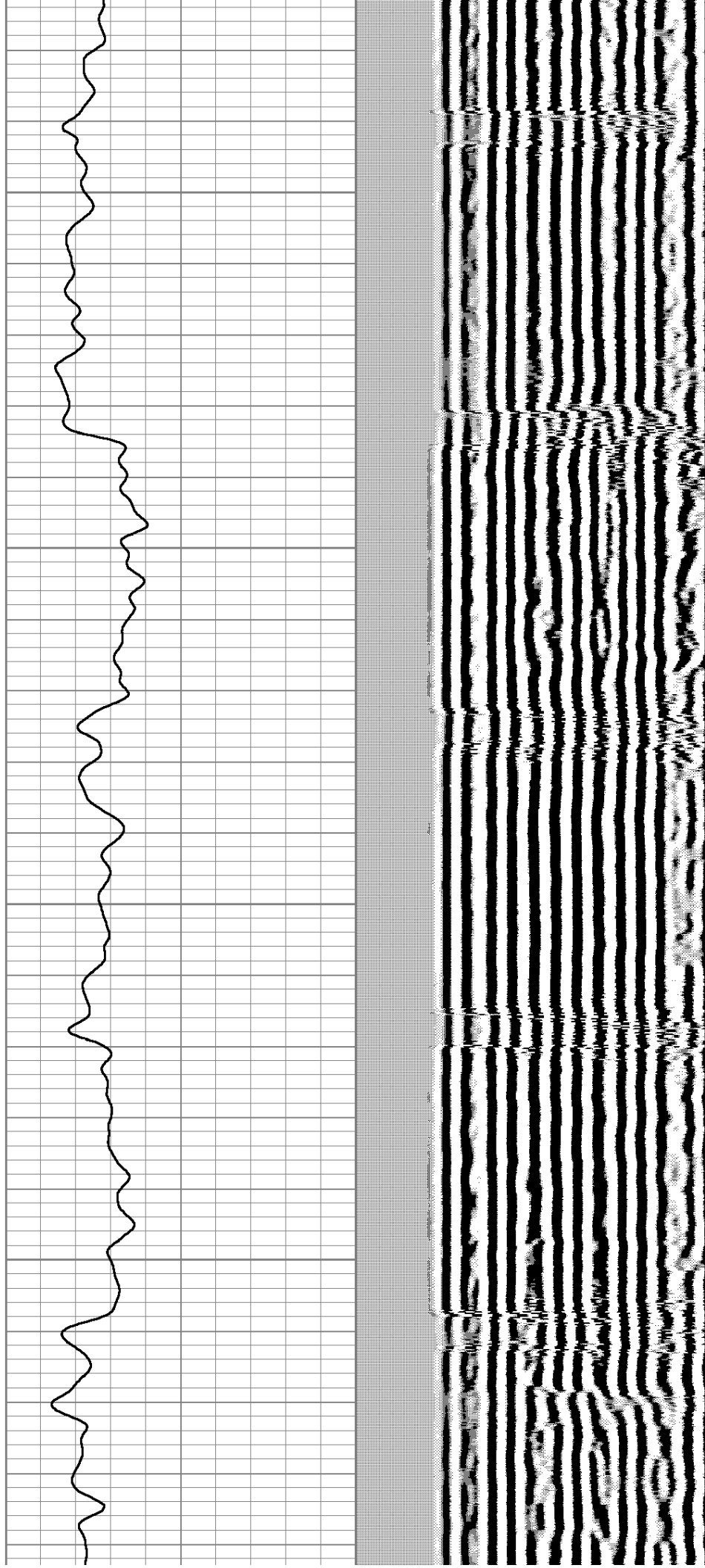


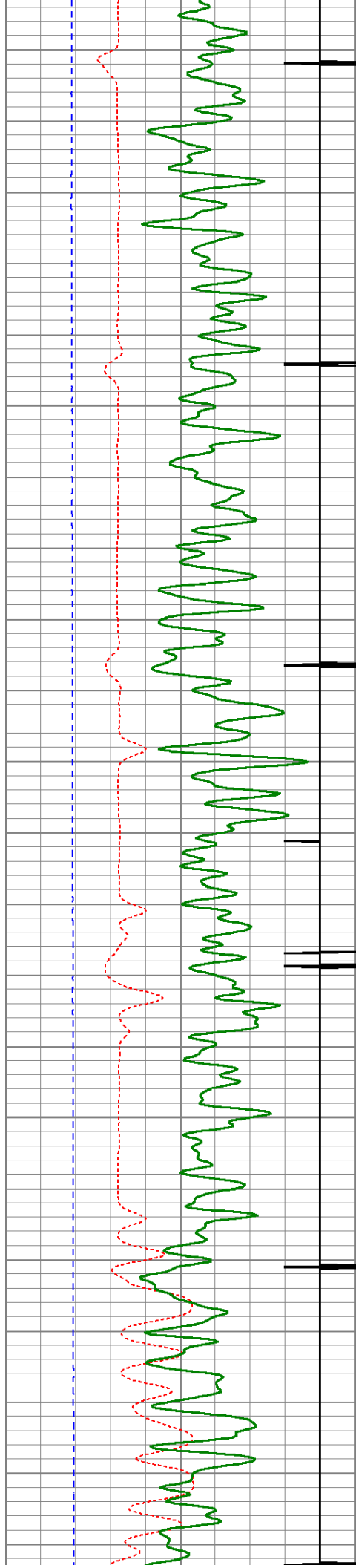
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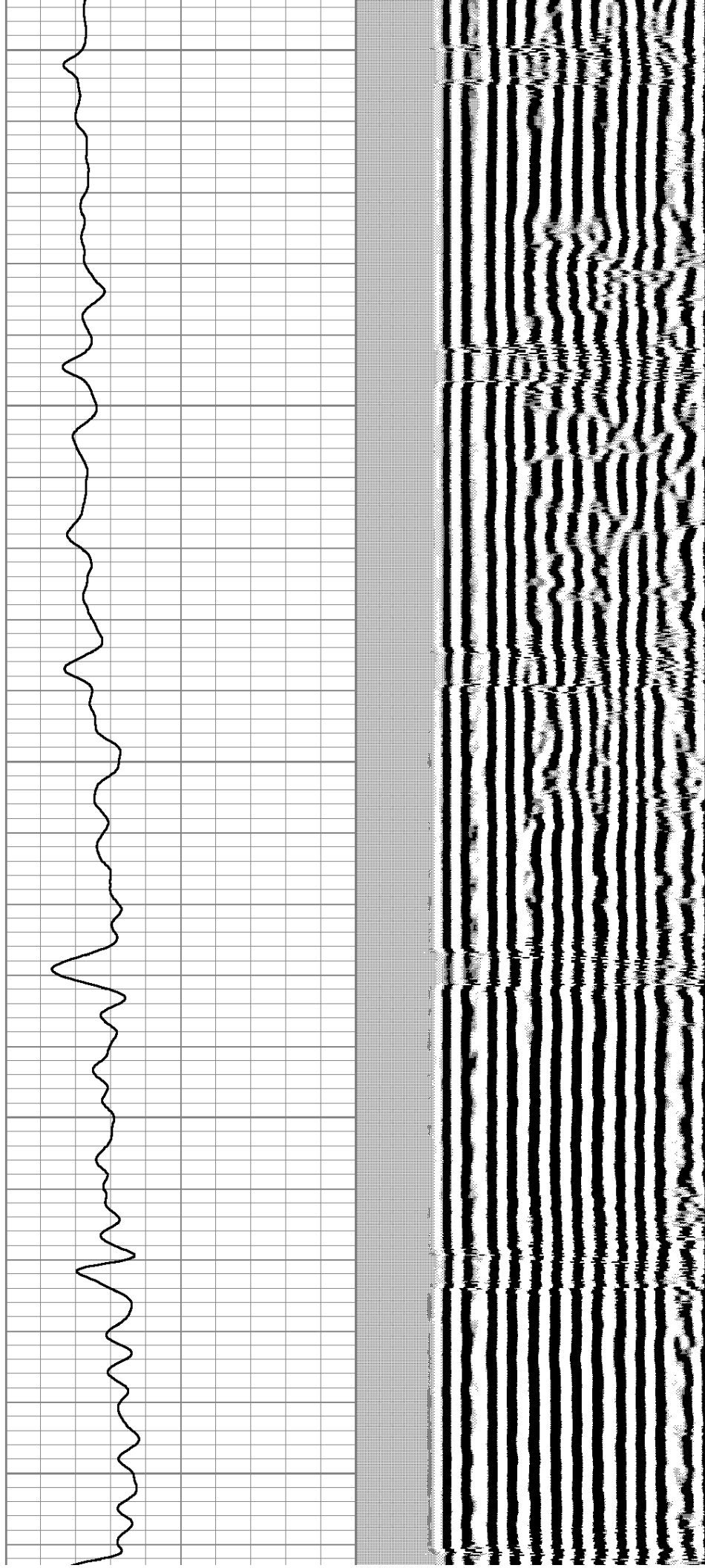
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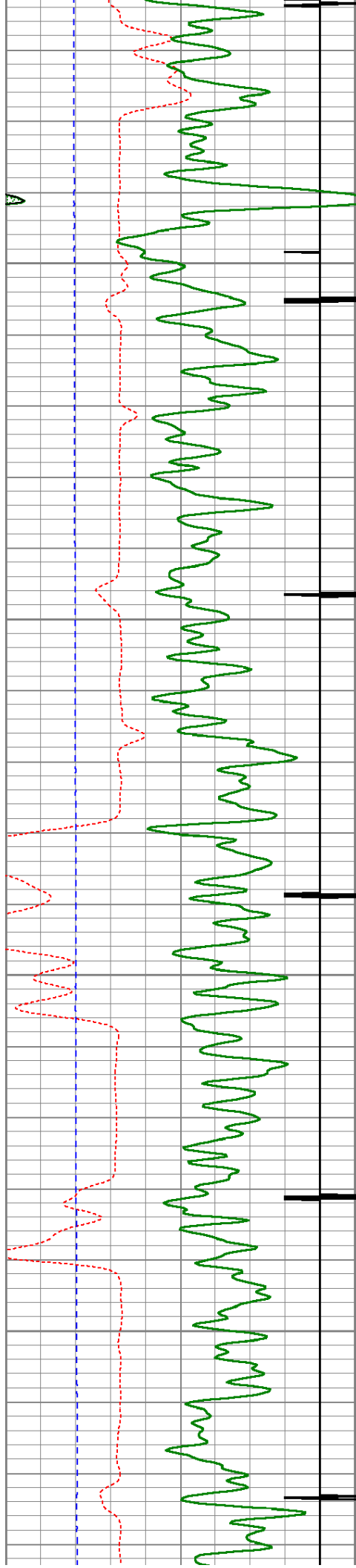
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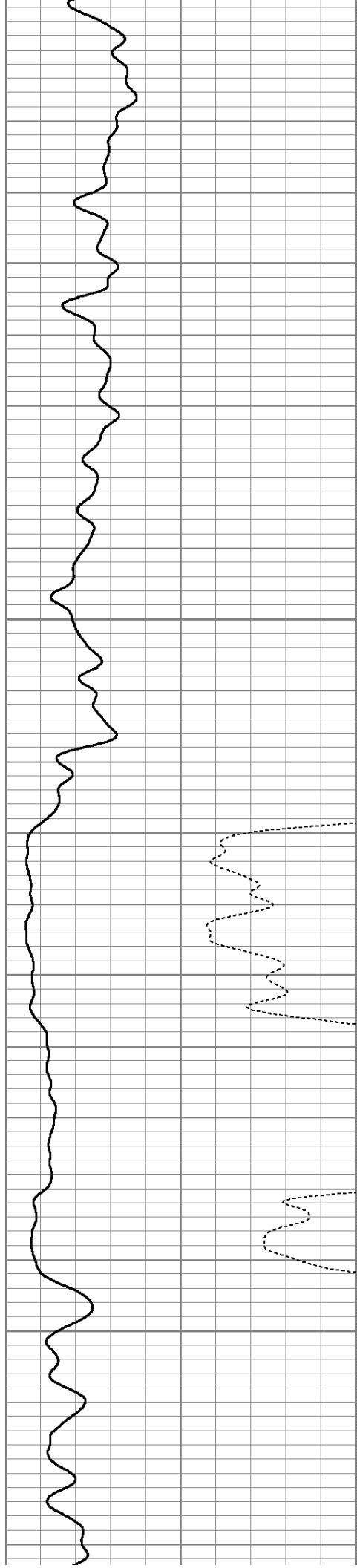


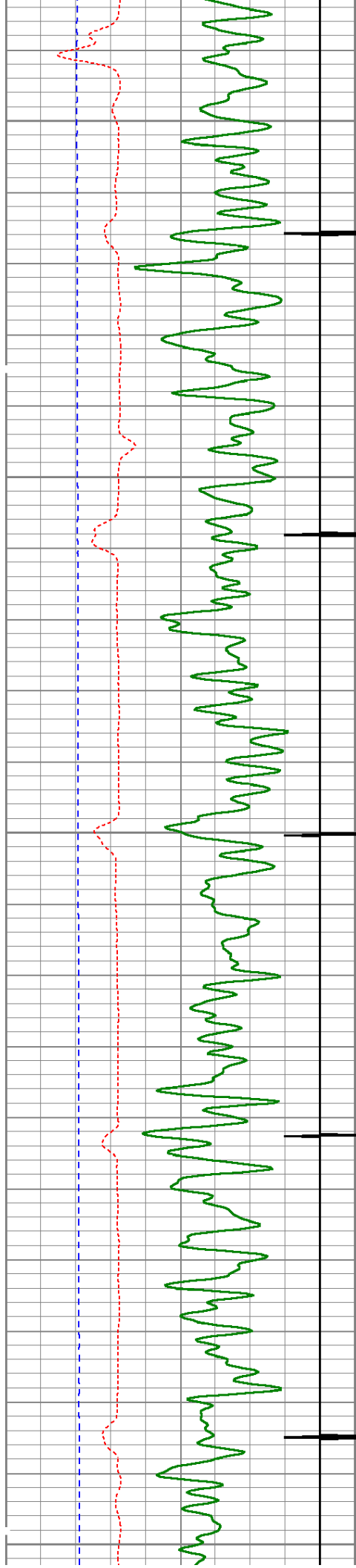
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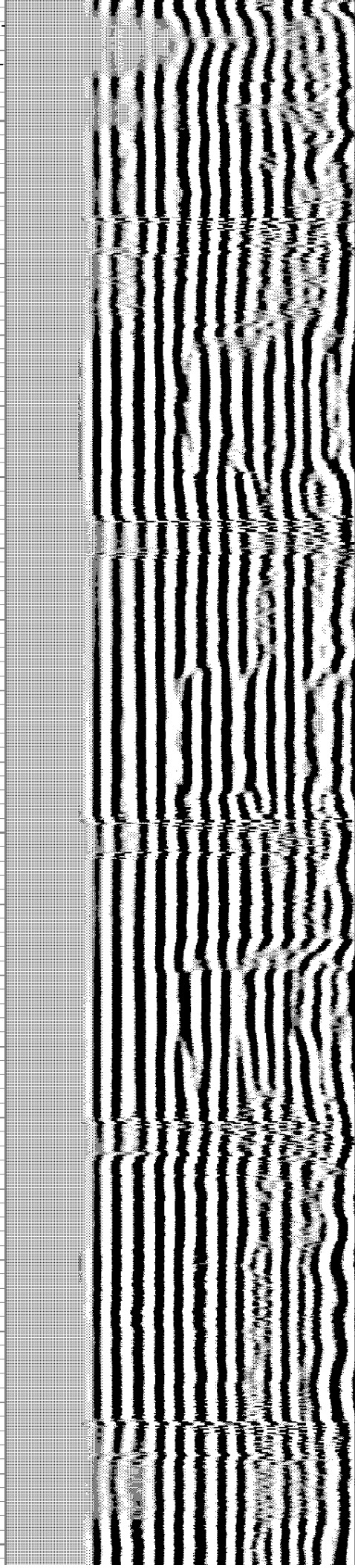
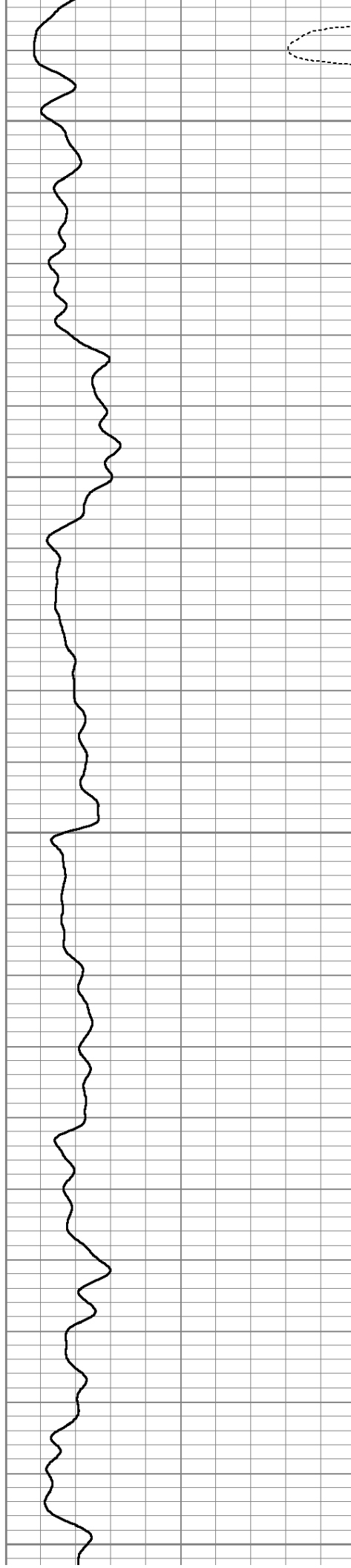
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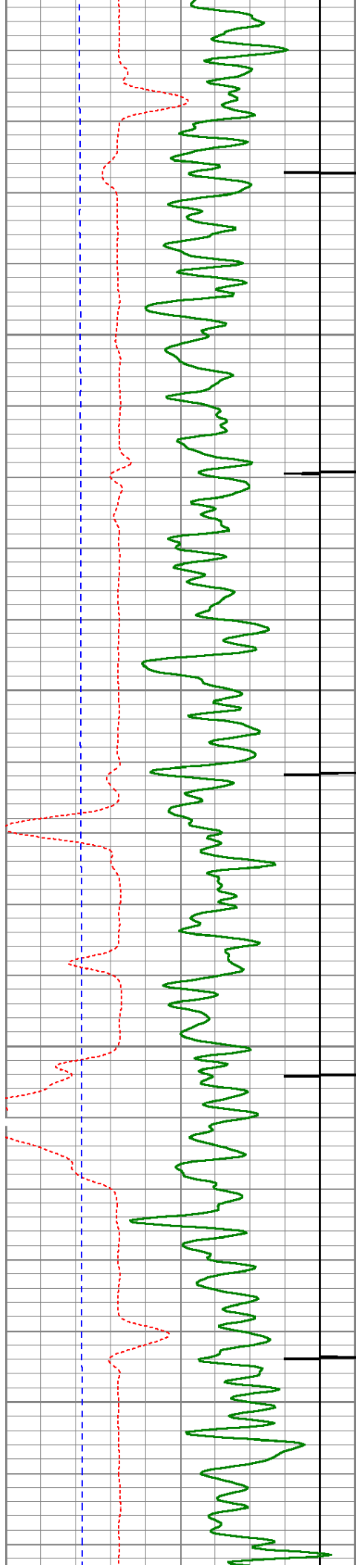
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5150

5200

5250



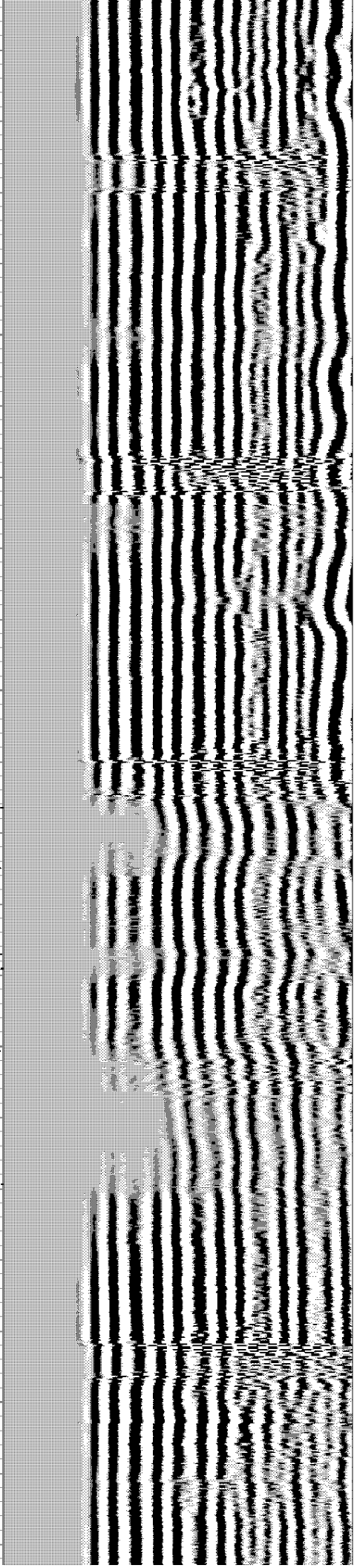
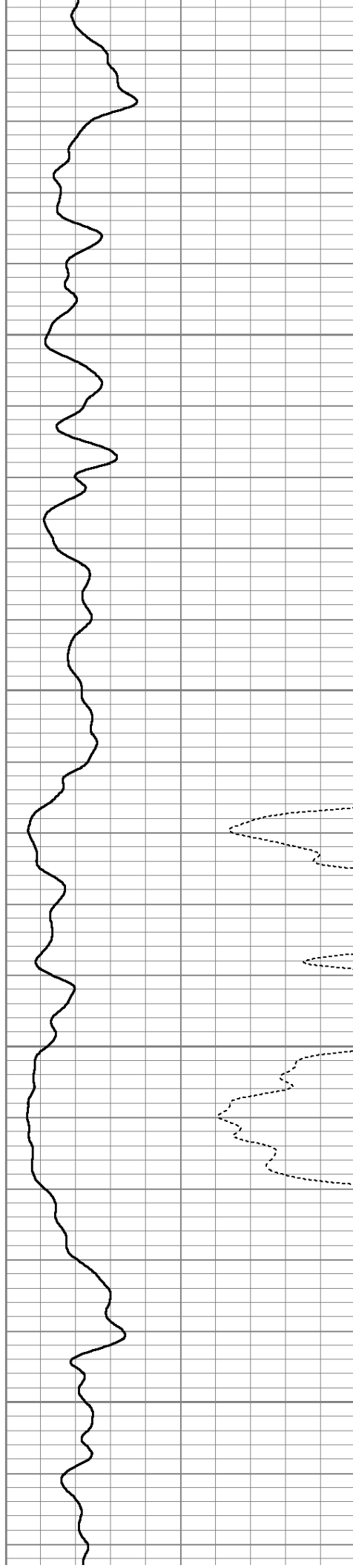


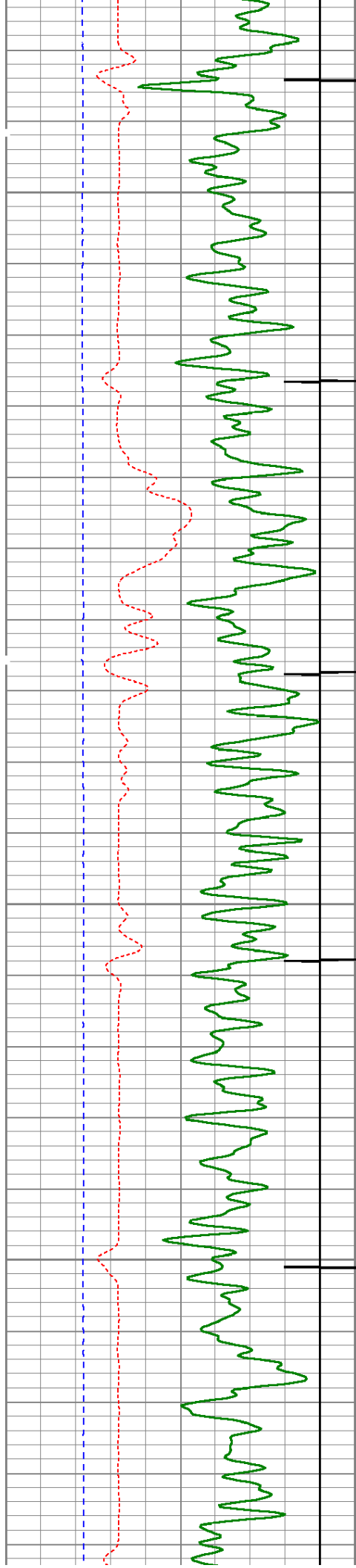
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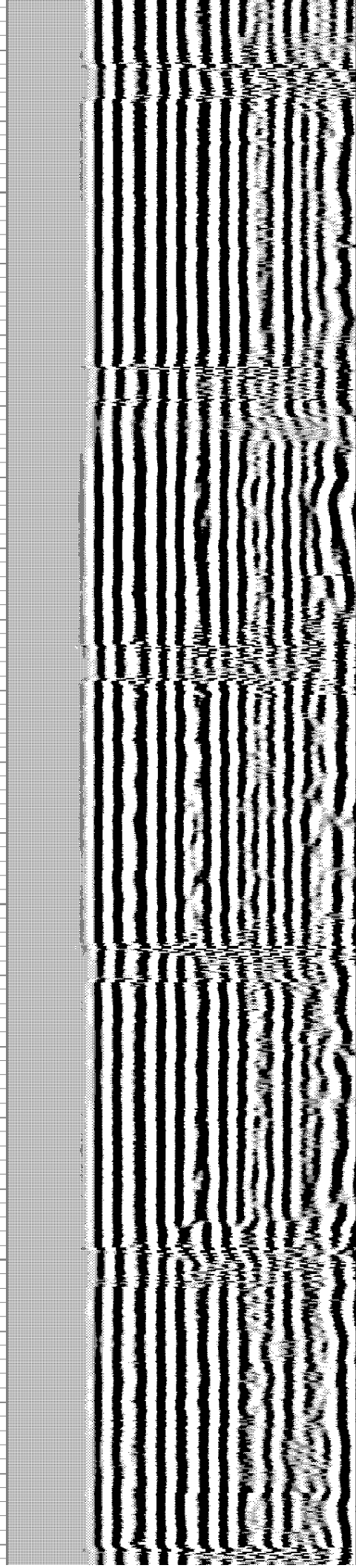
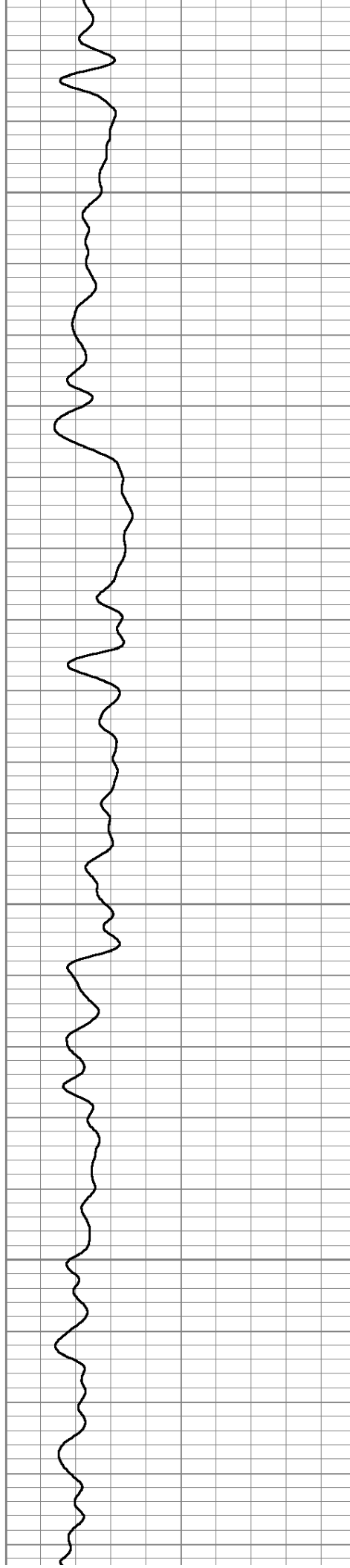


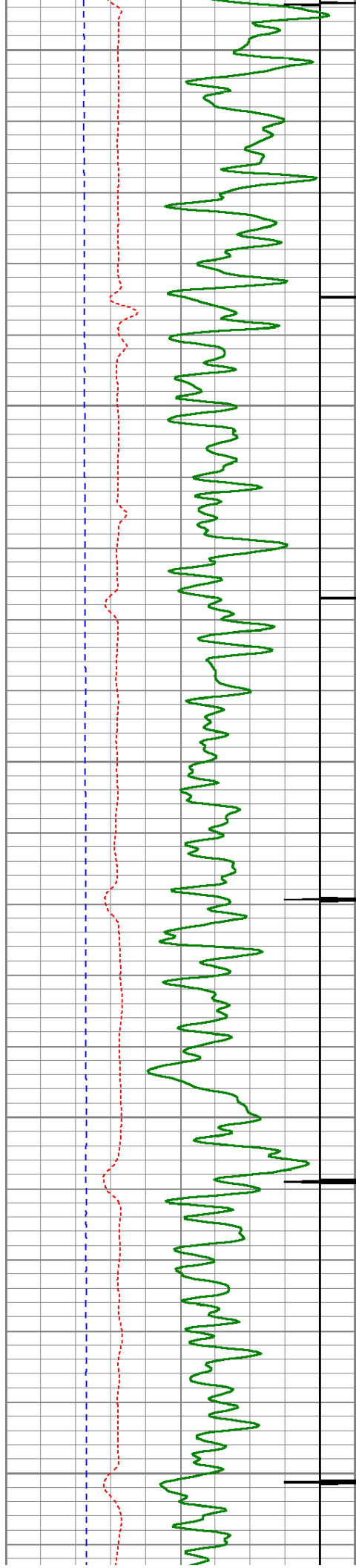
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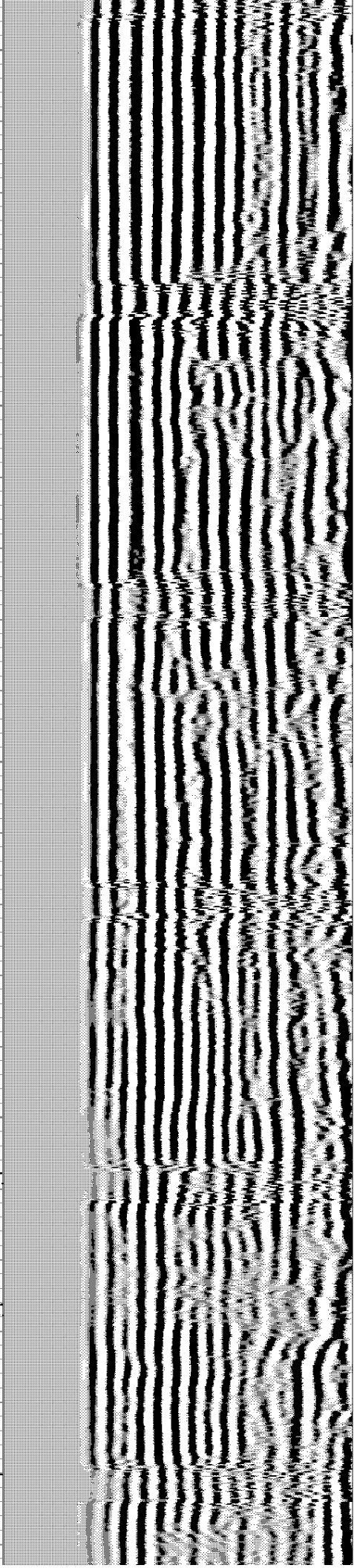
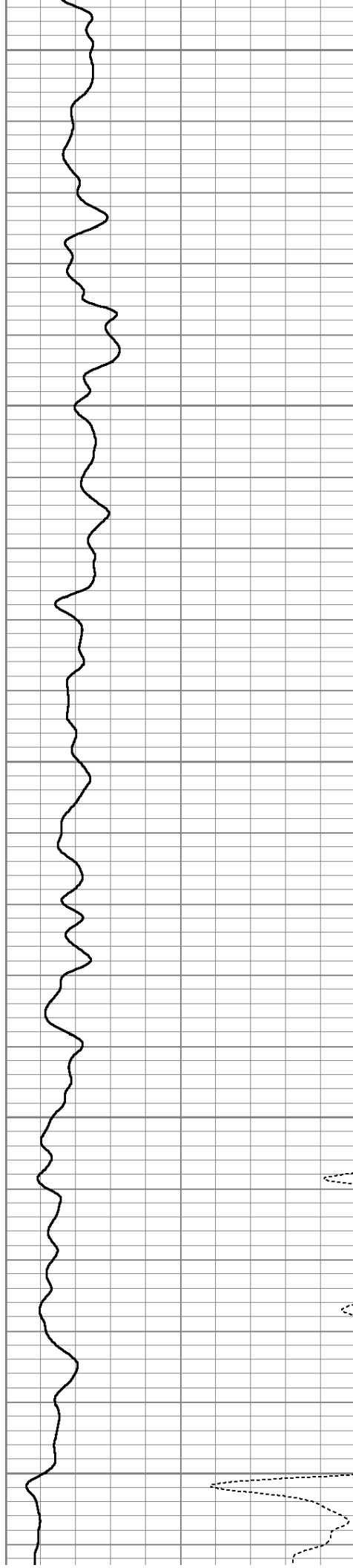
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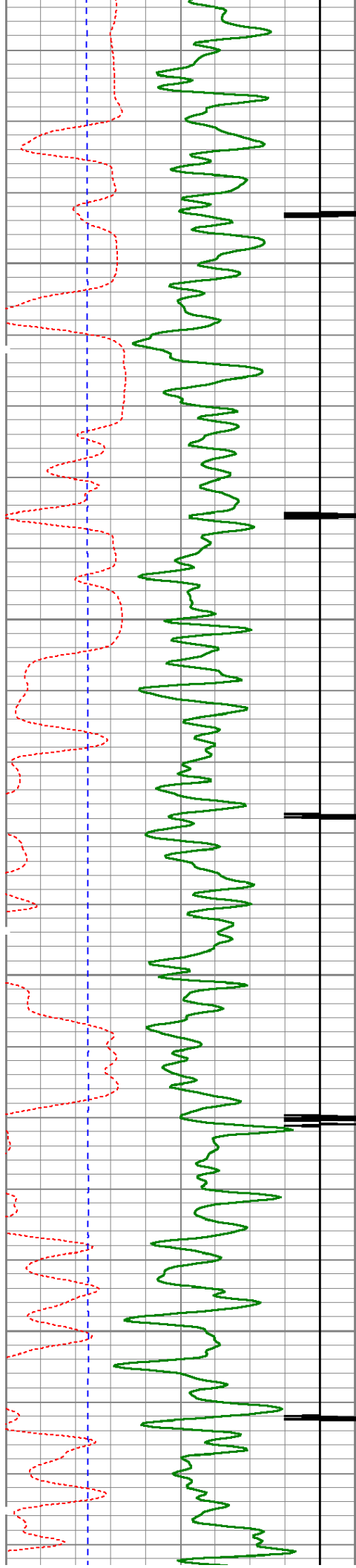
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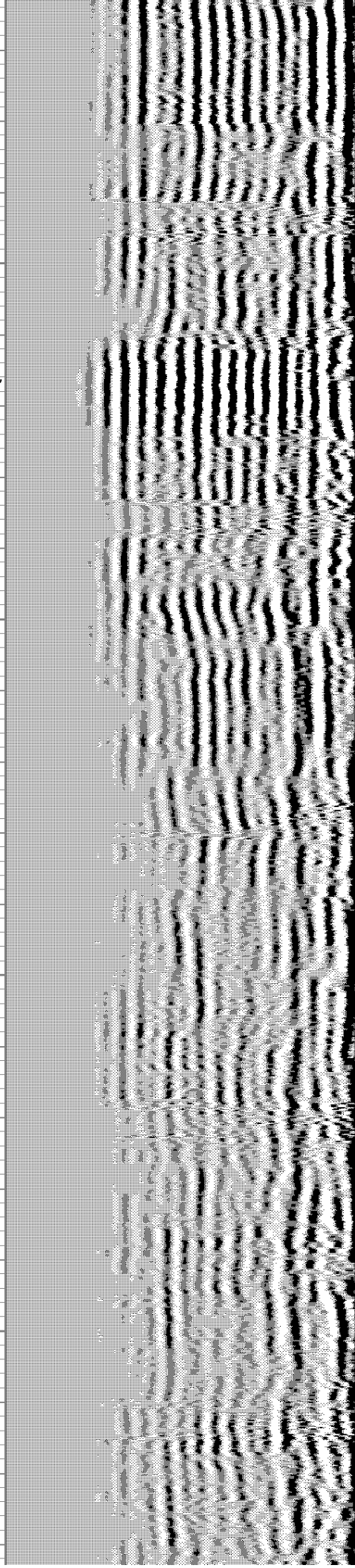
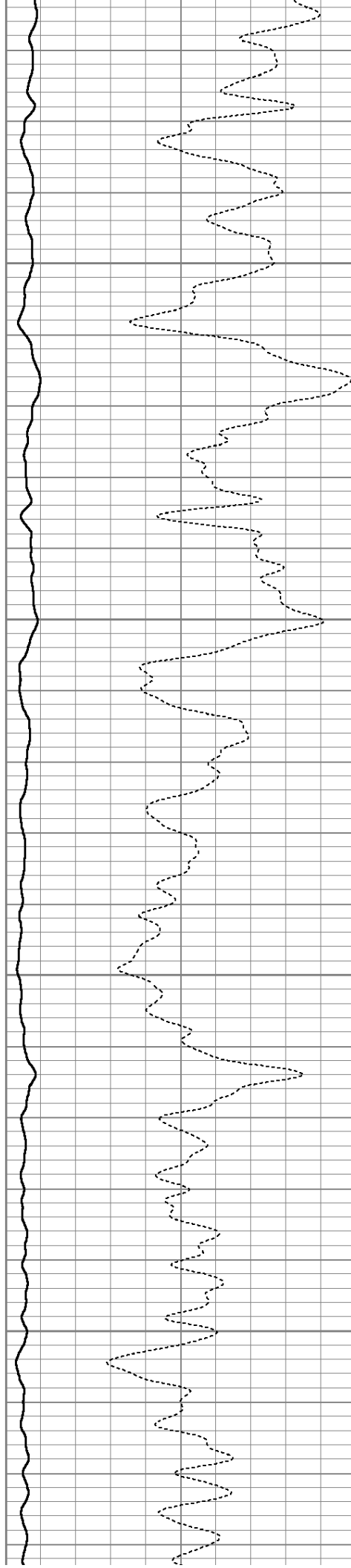


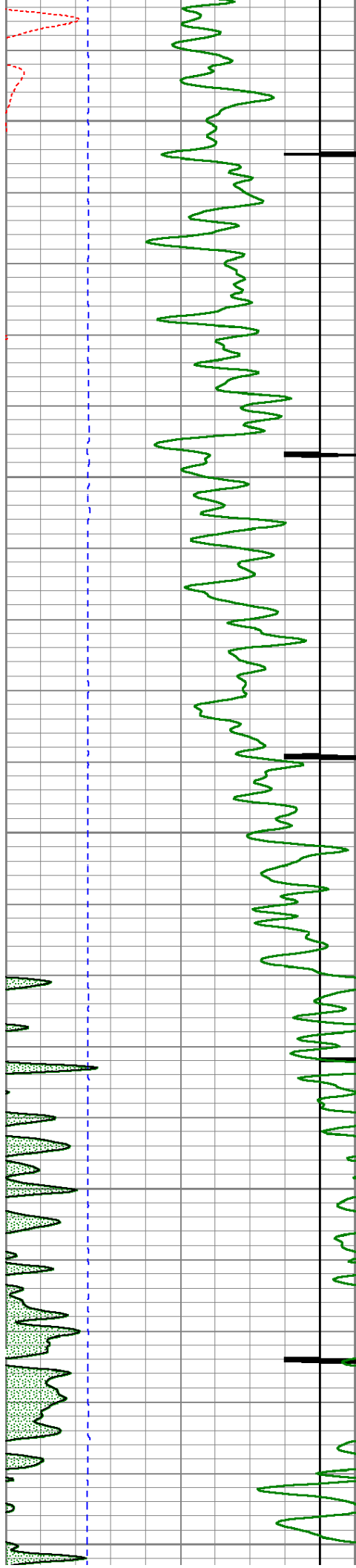
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6050

6100





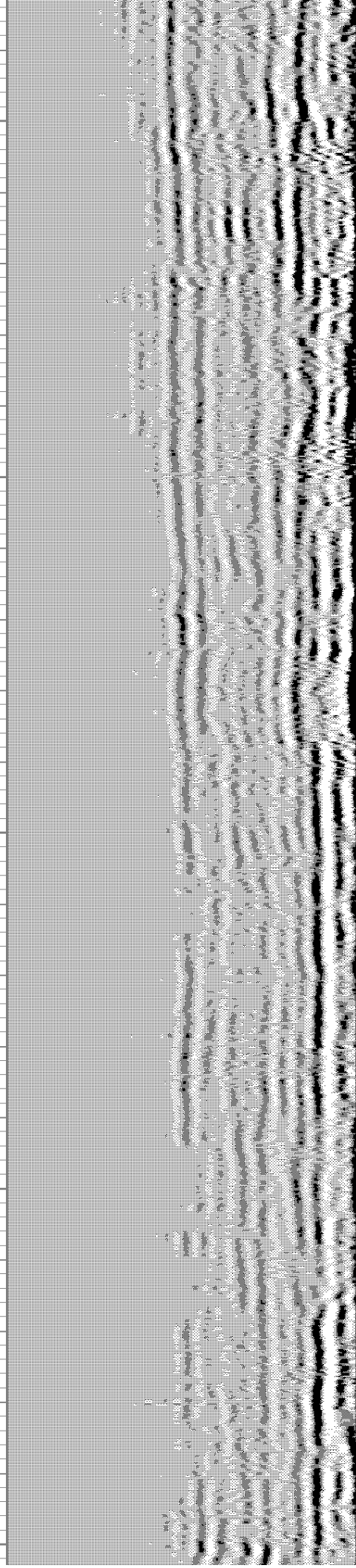
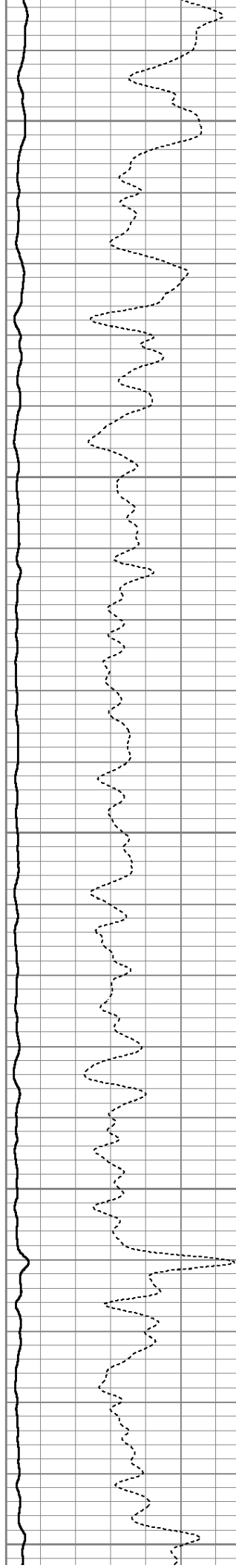
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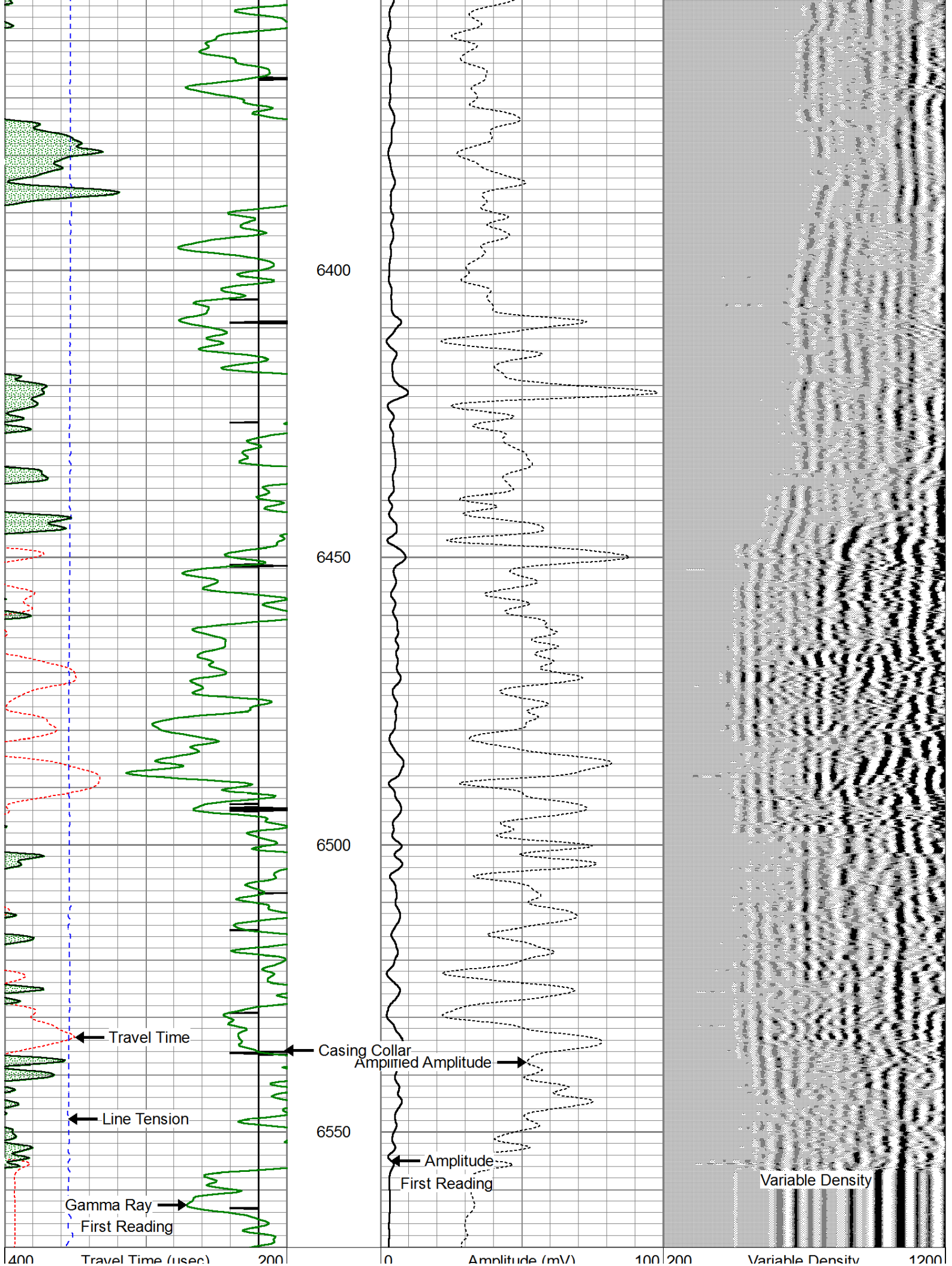
6200

6250

6300

6350





9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

0	Amplified Amplitude (mV)	10
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200	Variable Density	1200
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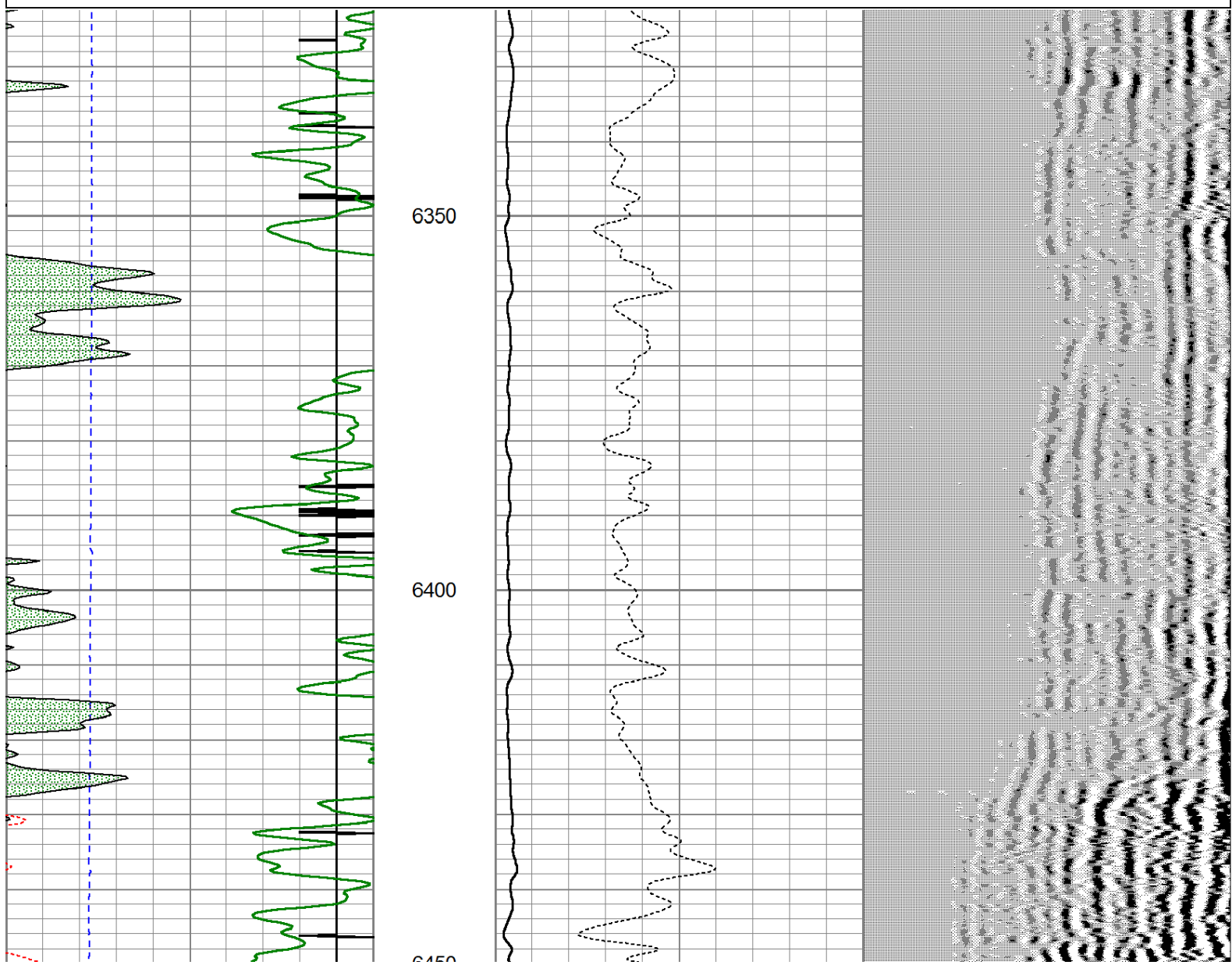
Repeat Pass (0 PSI)

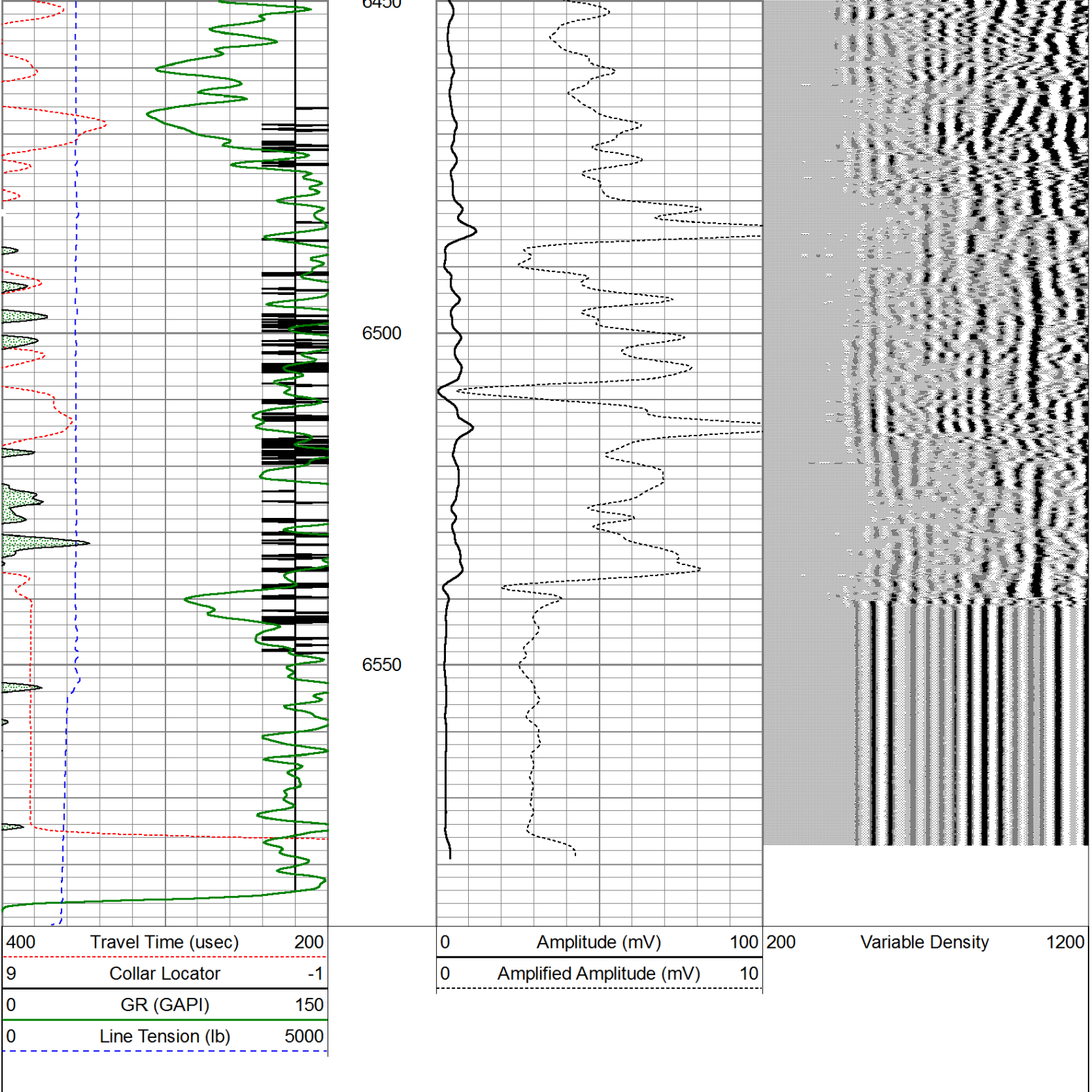
Database File: bonanzacreek_antelope_j_f_18_hnb_two.db
Dataset Pathname: cbl/pass2
Presentation Format: cblprobe
Dataset Creation: Mon Apr 29 16:36:54 2013 by Log 0
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	Collar Locator	-1
0	GR (GAPI)	150
0	Line Tension (lb)	5000

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

200	Variable Density	1200
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Calibration Report

Database File: bonanzacreek_antelope_j_f_18_hnb_two.db
Dataset Pathname: cbl/pass4.1
Dataset Creation: Mon Apr 29 18:09:36 2013 by Calc 0

Temperature Calibration Report

Serial Number: 101234
Tool Model: 1.375TEMP
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

Gamma Ray Calibration Report

Serial Number:	110108-Dig	
Tool Model:	Probe275	
Performed:	Mon Apr 29 16:12:13 2013	
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:	101224	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	0.158	ft

Master Calibration, performed Mon Apr 29 16:11:24 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.024	0.621	2.000	62.165	115.937	4.275
CAL	-0.019	0.638				
5'	-0.017	0.691	1.000	62.165	86.396	2.503
SUM						
S1	-0.150	0.635	0.000	100.000	187.974	1.914
S2	-0.007	0.633	0.000	100.000	221.273	1.058
S3	-0.012	0.618	0.000	100.000	241.334	1.930
S4	-0.016	0.613	0.000	100.000	229.946	2.557
S5	-0.017	0.625	0.000	100.000	211.061	2.723
S6	-0.019	0.616	0.000	100.000	188.720	3.024
S7	-0.022	0.606	0.000	100.000	172.866	3.446
S8	-0.022	0.622	0.000	100.000	172.030	3.396

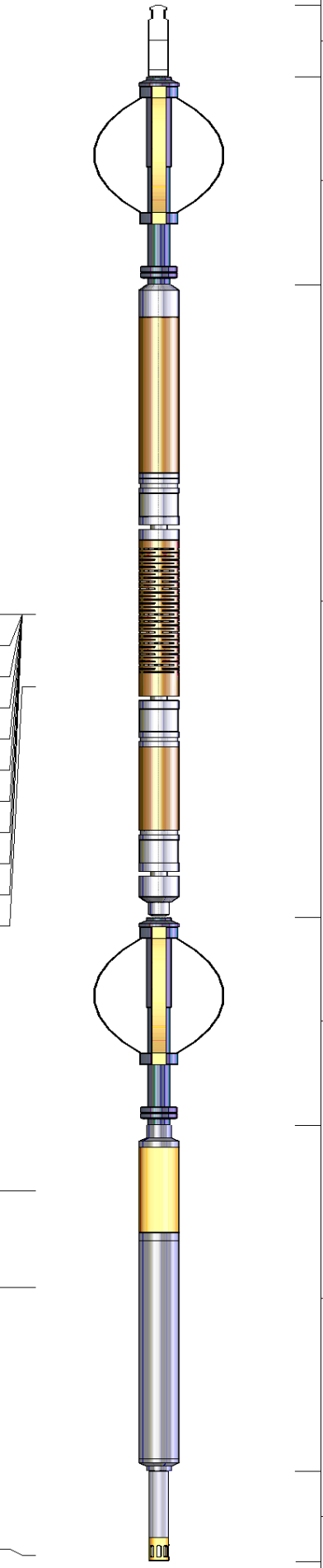
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.019	0.638	1.000	0.000

Air Zero Calibration, performed Mon Apr 29 16:06:54 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)
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	13.09		Titan Cable_head	1.00	1.44	10.00
	13.09		Probe275 2.75" Centralizer	2.88	2.75	20.00
	13.09					
	13.09					
	13.09					
	13.09					
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	13.09					
	13.09					
	12.09		RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
CCL GR	5.13		Probe275 2.75" Centralizer	2.88	2.75	20.00
	3.79		GR-Probe275 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
TEMP	0.08		Temp-1.375TEMP (101234) Temperature Tool	1.25	1.38	30.00

Dataset:	bonanzacreek_antelope_j_f_18_hnb__two.db: field/well/cbl/pass4.1
Total Length:	21.53 ft
Total Weight:	227.00 lb
O.D.	2.75 in