



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

Company Bonanza Creek Energy
Well State Antelope 44-41-HNB
Field Wattenberg
County Weld
State Colorado

Company Bonanza Creek Energy
Well State Antelope 44-41-HNB
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-36599

280' FSL & 1923' FEL

SEC 12 TWP 5 N RGE 62 W

Other Services
None

Permanent Datum Ground Level Elevation 4597'
Log Measured From Kelly Bushing 15' APD
Drilling Measured From Kelly Bushing

Elevation
K.B. 4612'
D.F. 4611'
G.L. 4597'

Date 23-April-2013

Run Number	One
Depth Driller	10985'
Depth Logger	6299'
Bottom Logged Interval	6288'
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	0900
Time Logger on Bottom	1020
Equipment Number	12029
Location	Brighton, CO
Recorded By	R.Grisson
Witnessed By	Joe Kauffman

Run Number	Borehole Record		Tubing Record				
	Bit	From	To	Size	Weight	From	To
1	13.5"	Surface	410'				
2	8.75"	410'	6705'				
3	6.125"	6705'	10985'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	Surface	410'
Prot. String				
Production String	7"	26#	Surface	6705'
Liner	4.5"	11.6#	6605'	10798'
Short Joint				

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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 surface.

Your Crew Today. R.Grisson, R.Anderson, S.Hughes

Thank You for using Allied Wireline

(303) 659-4609

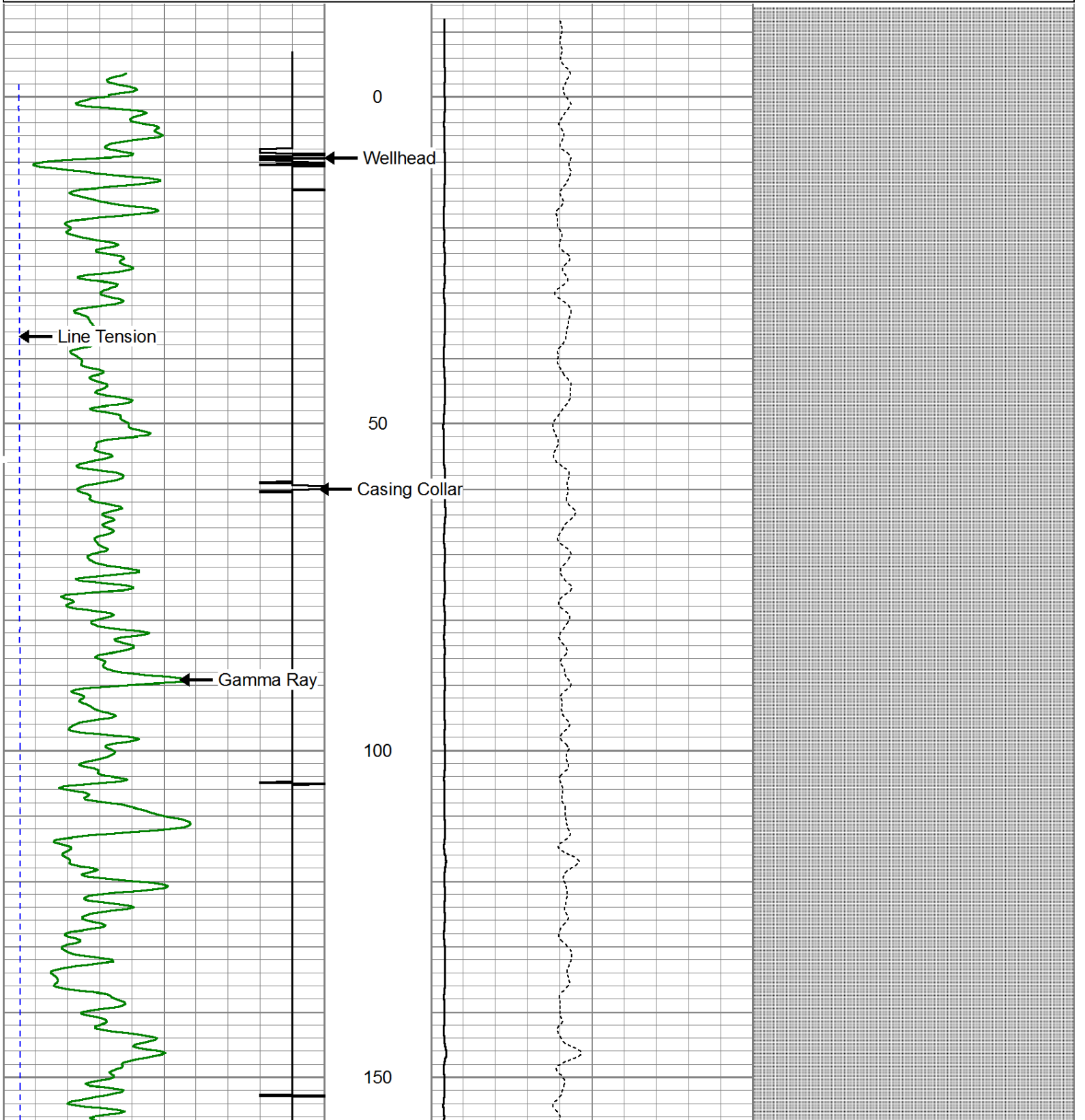


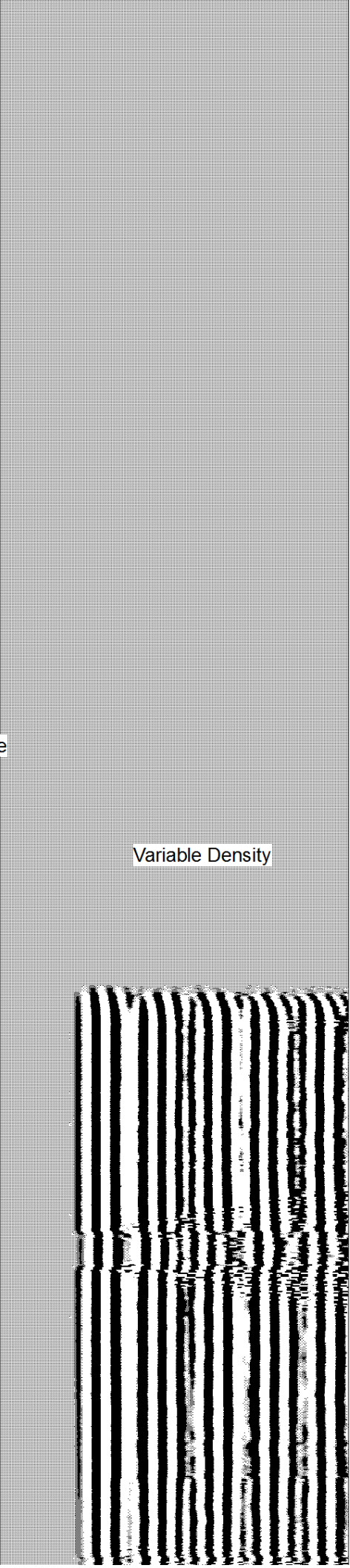
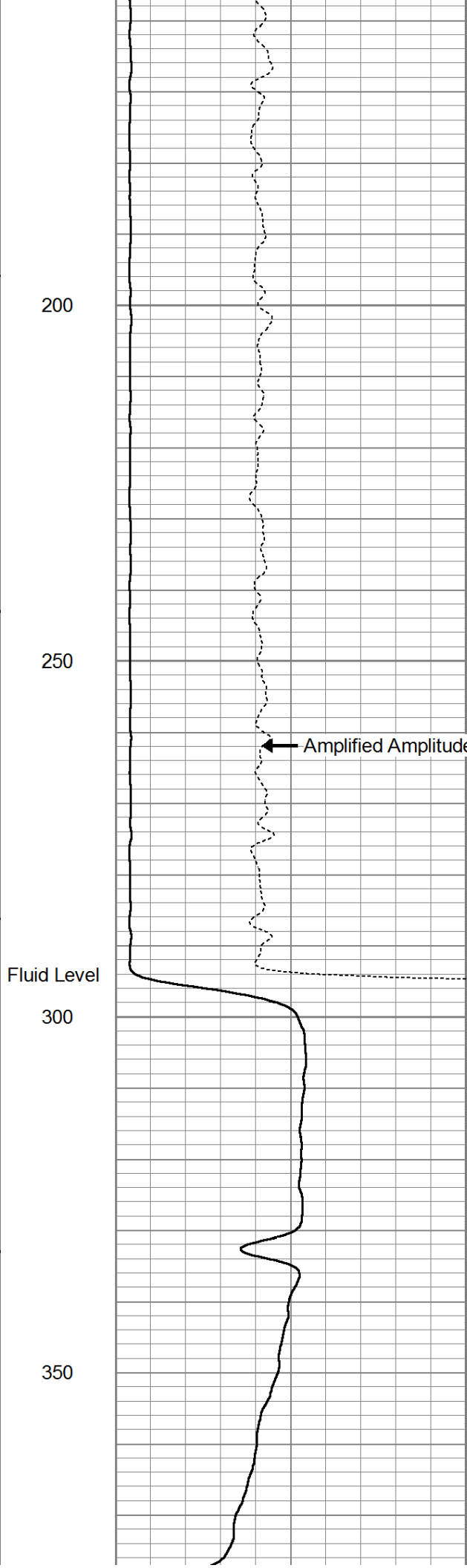
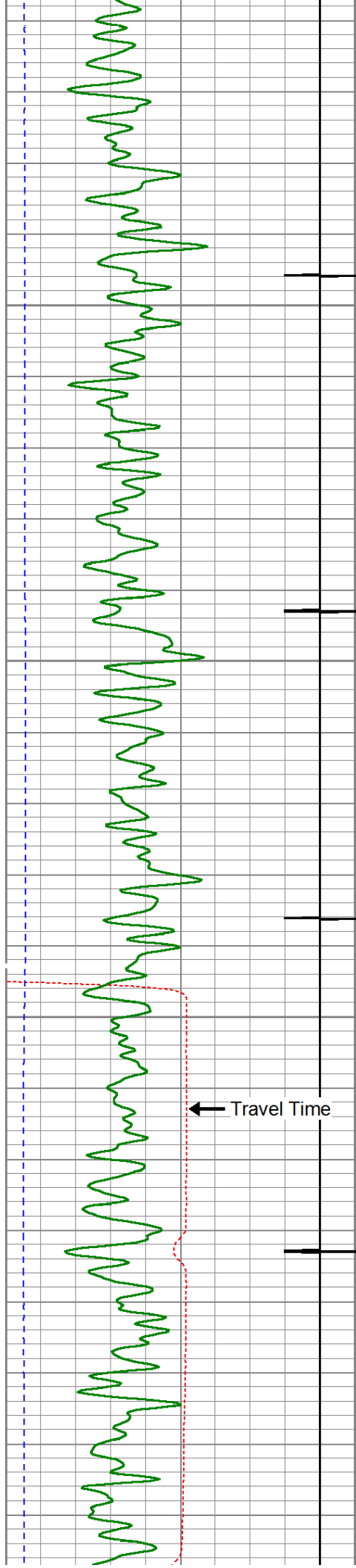
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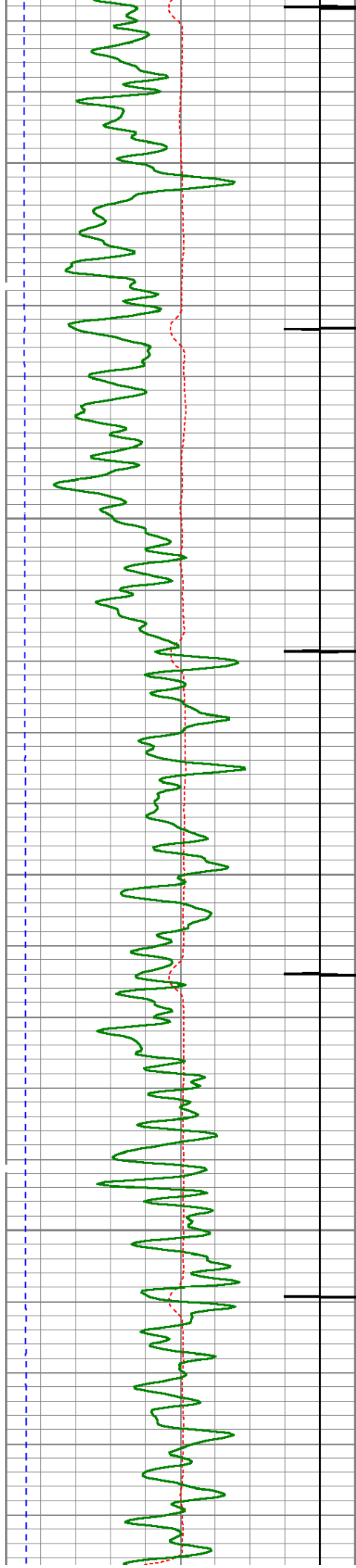
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 Dataset Pathname: pass6
 Presentation Format: cblprobe
 Dataset Creation: Tue Apr 23 10:31:01 2013 by Log SCH 120126
 Charted by: Depth in Feet scaled 1:240

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

0	Amplitude (mV)	100	200	Variable Density	1200
0	Amplified Amplitude (mV)	10			





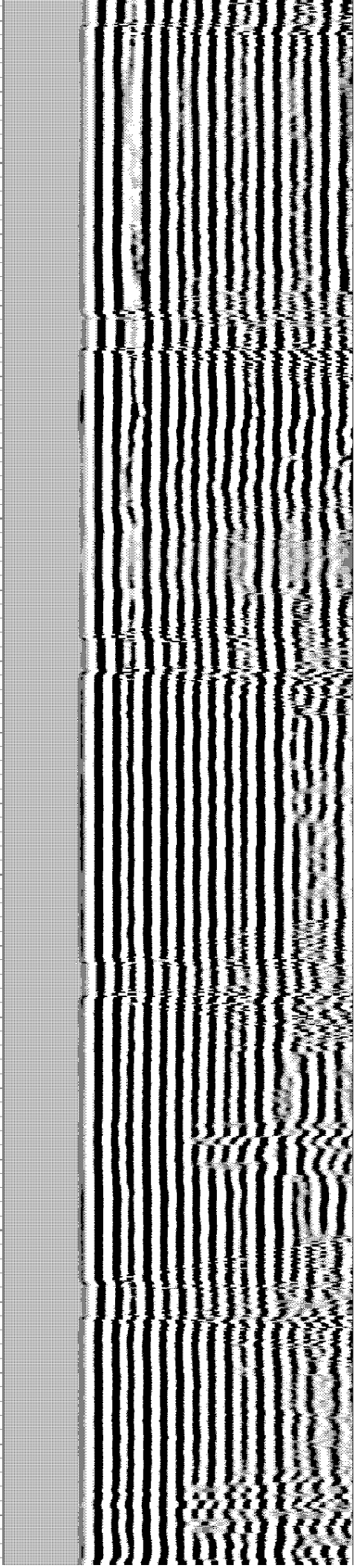
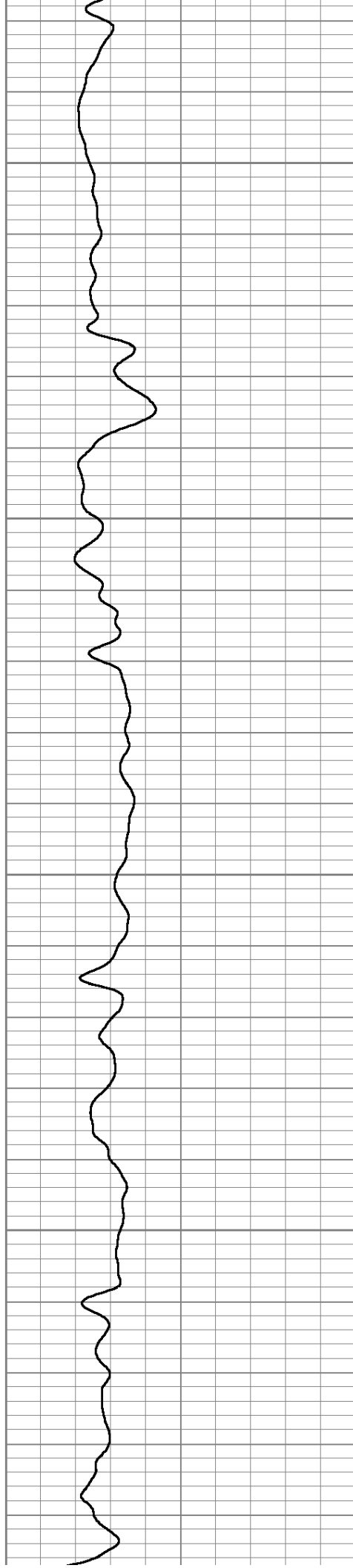


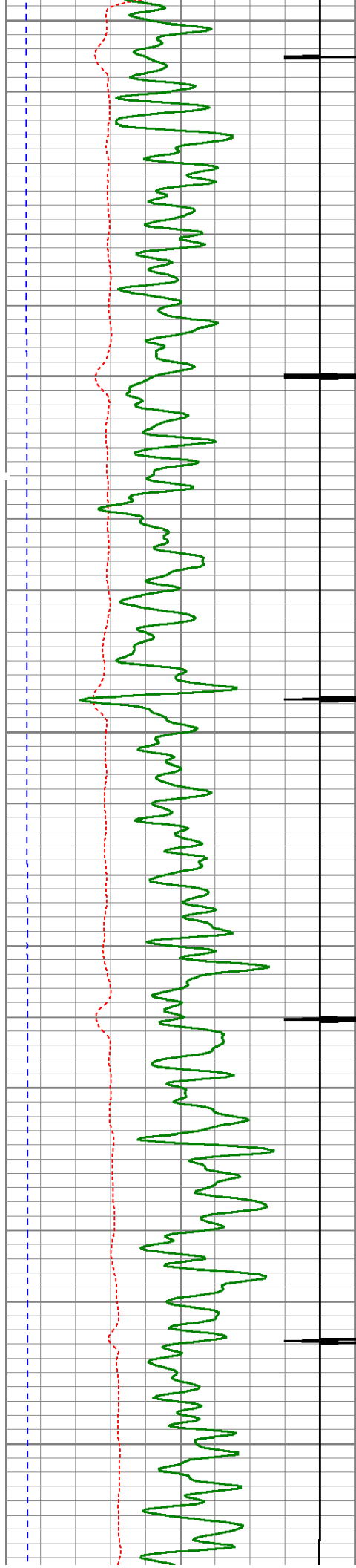
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450

500

550





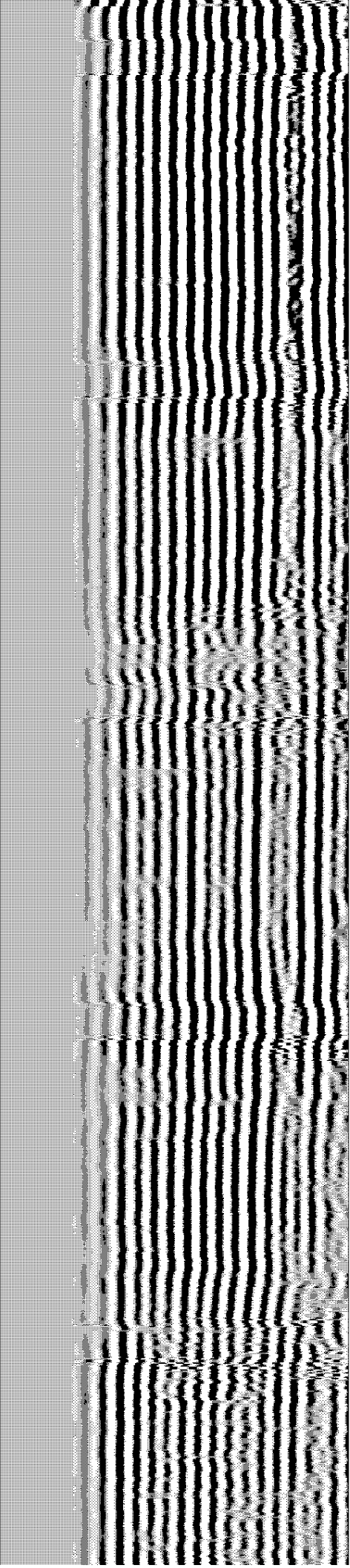
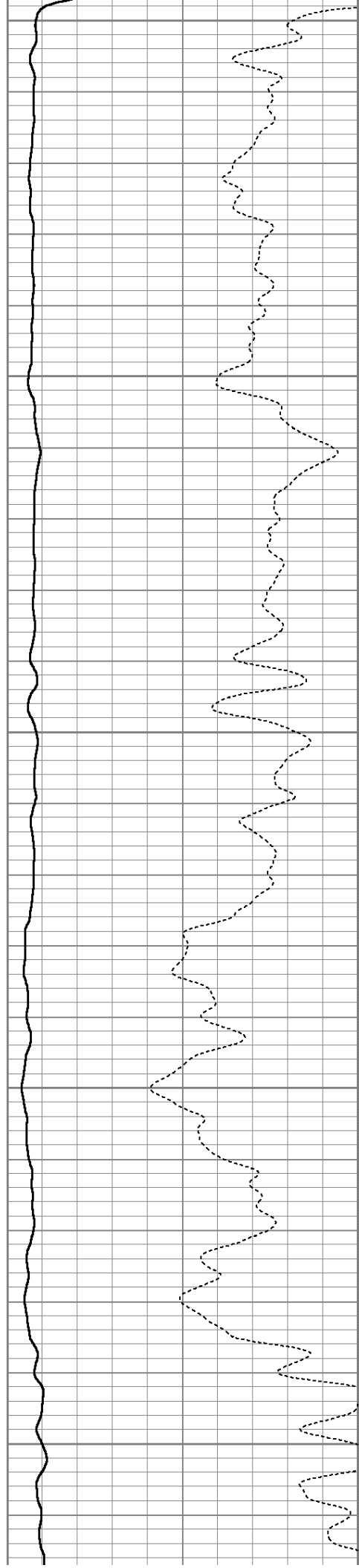
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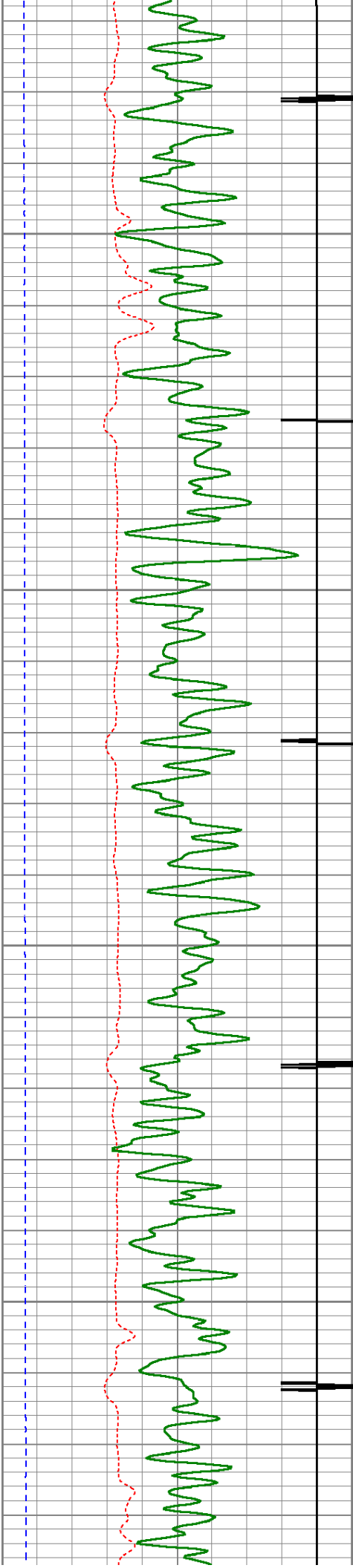
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700

750

800



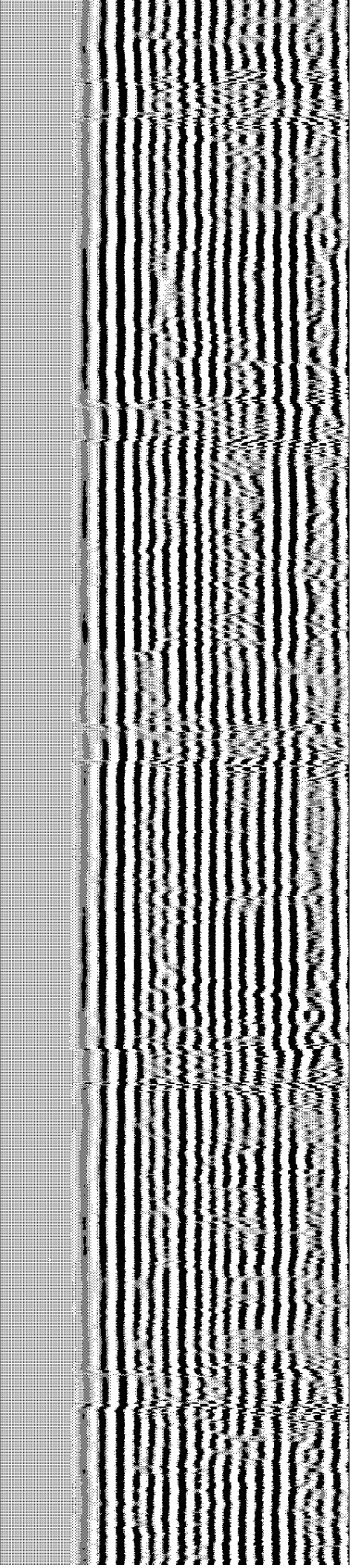
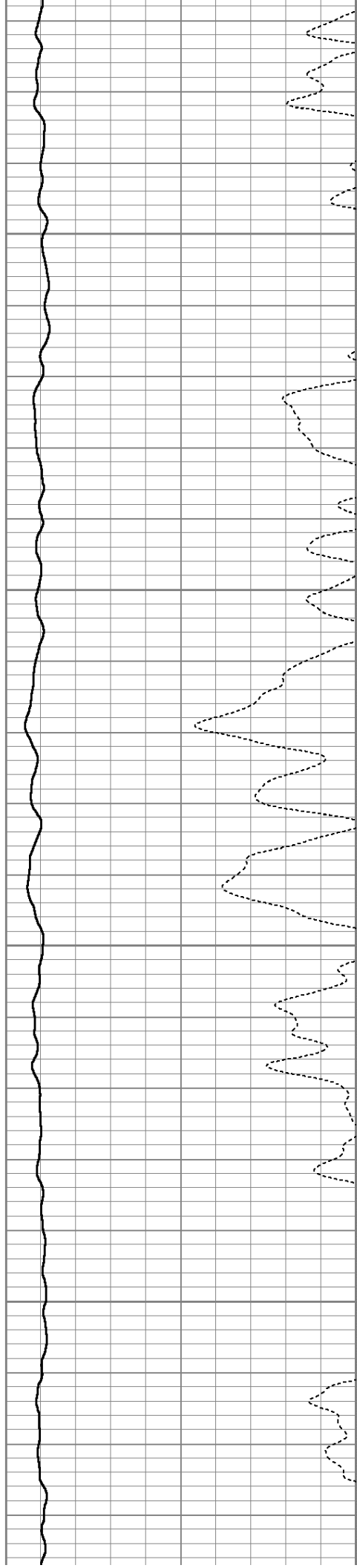


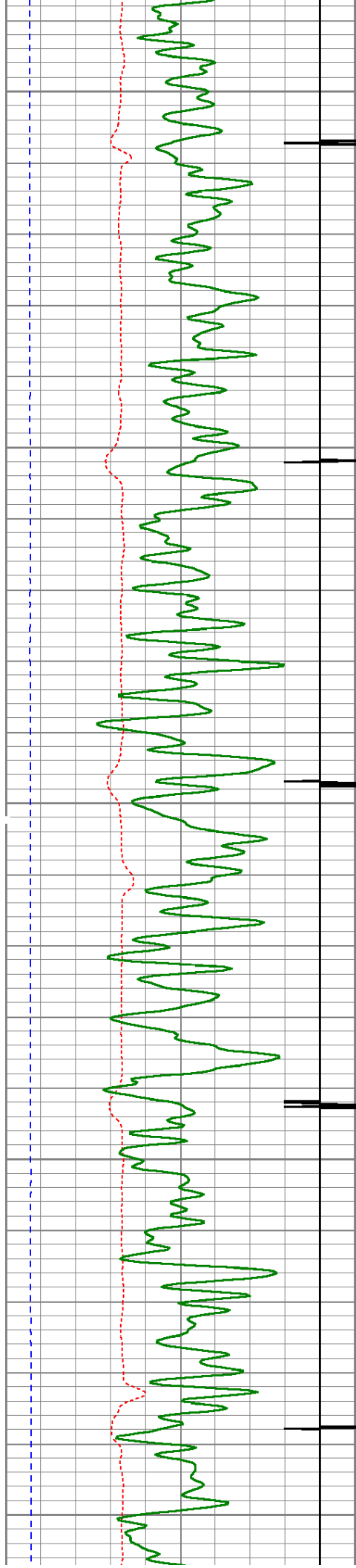
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900

950

1000





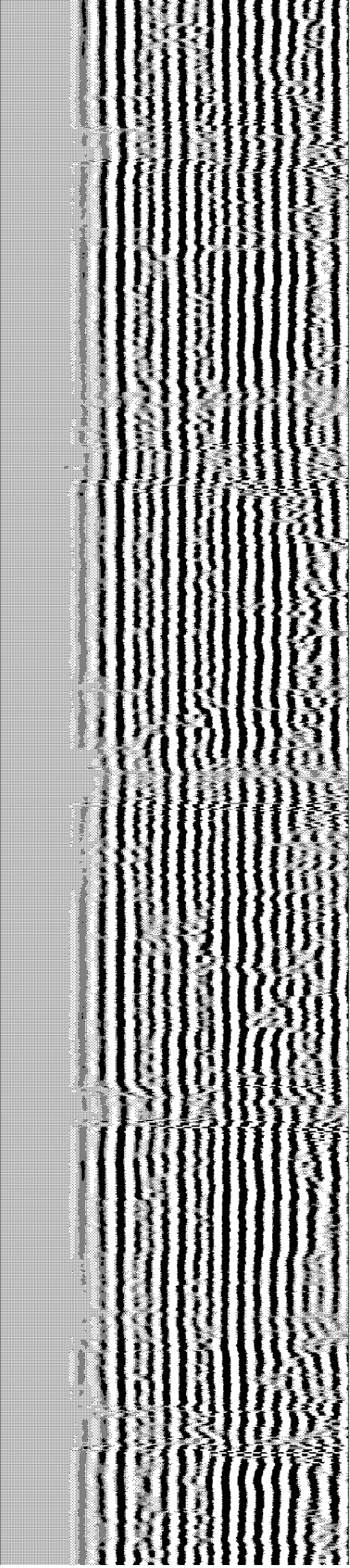
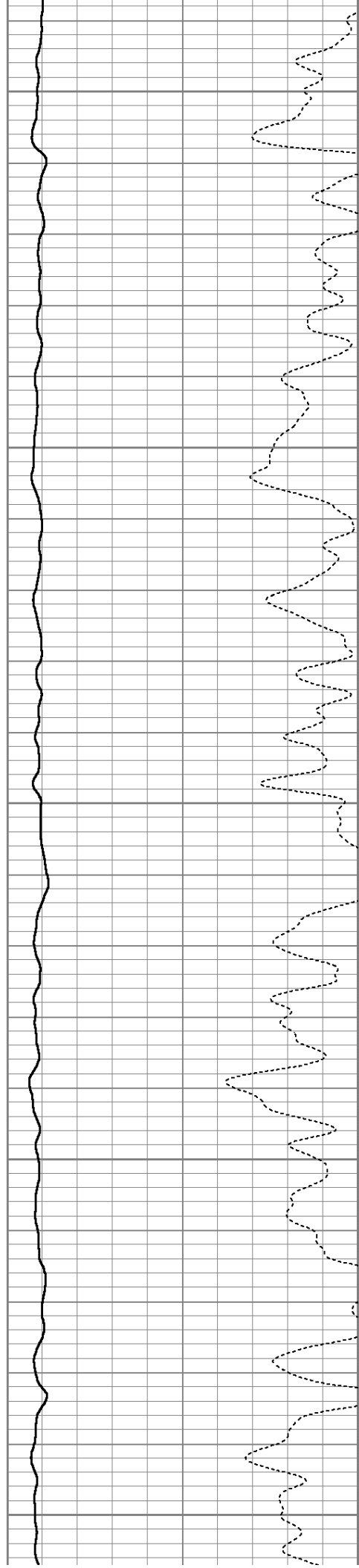
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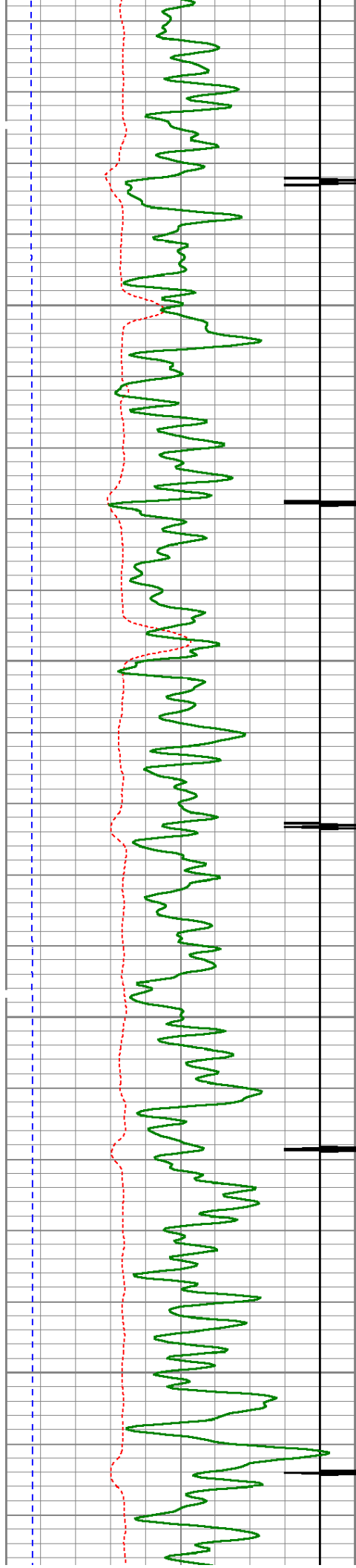
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1150

1200

1250



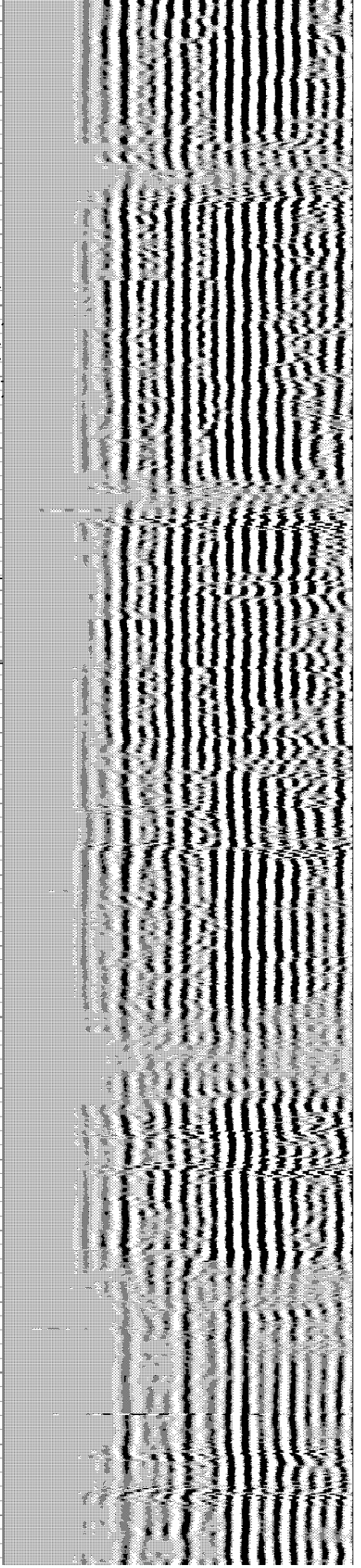
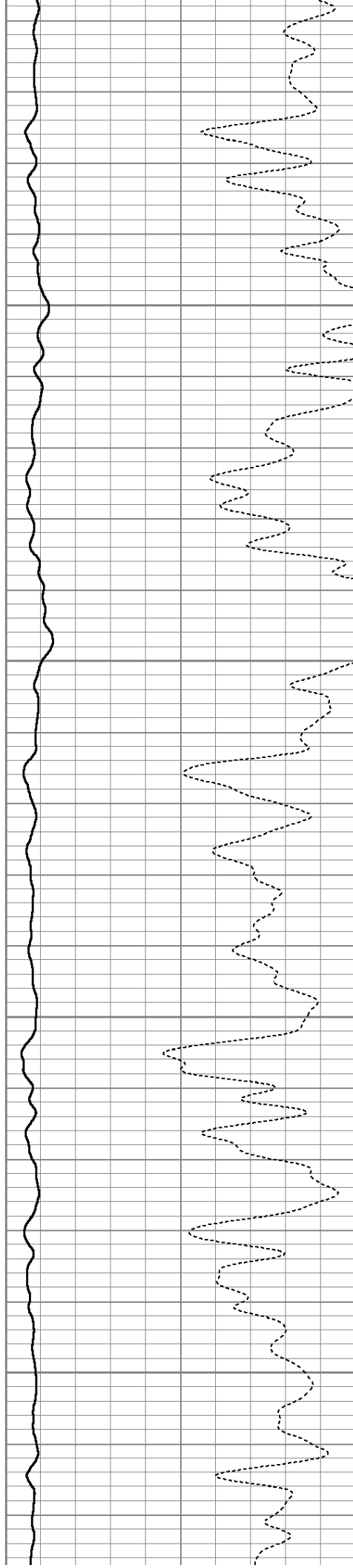


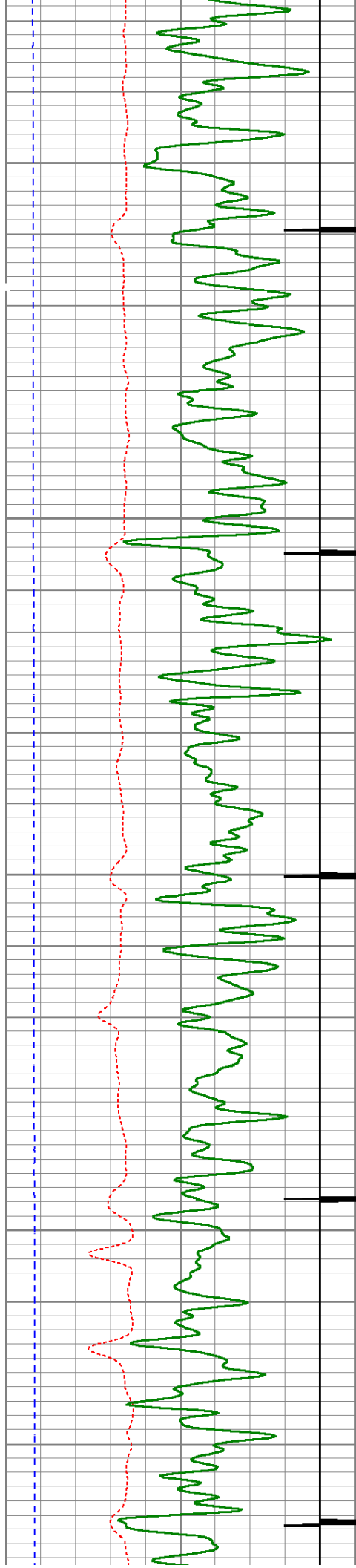
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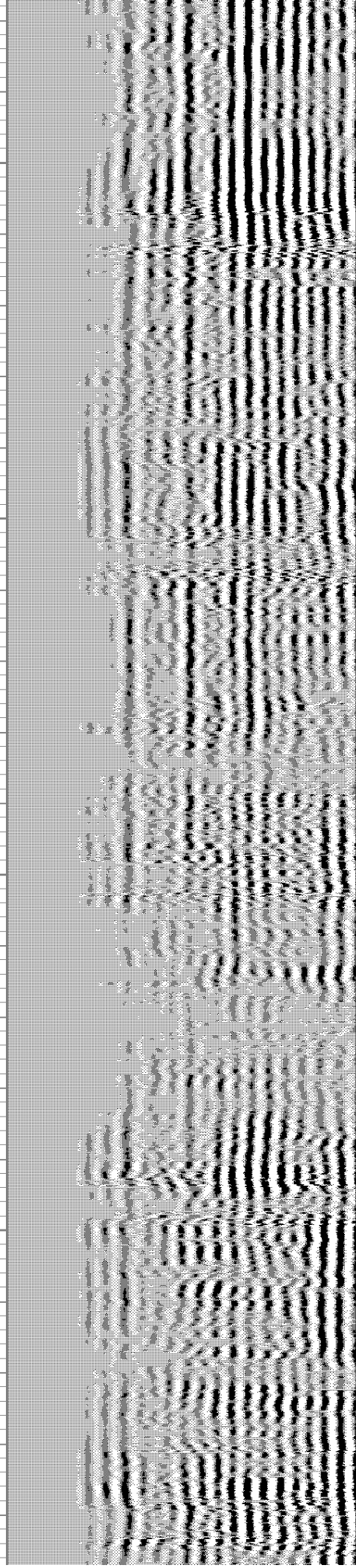
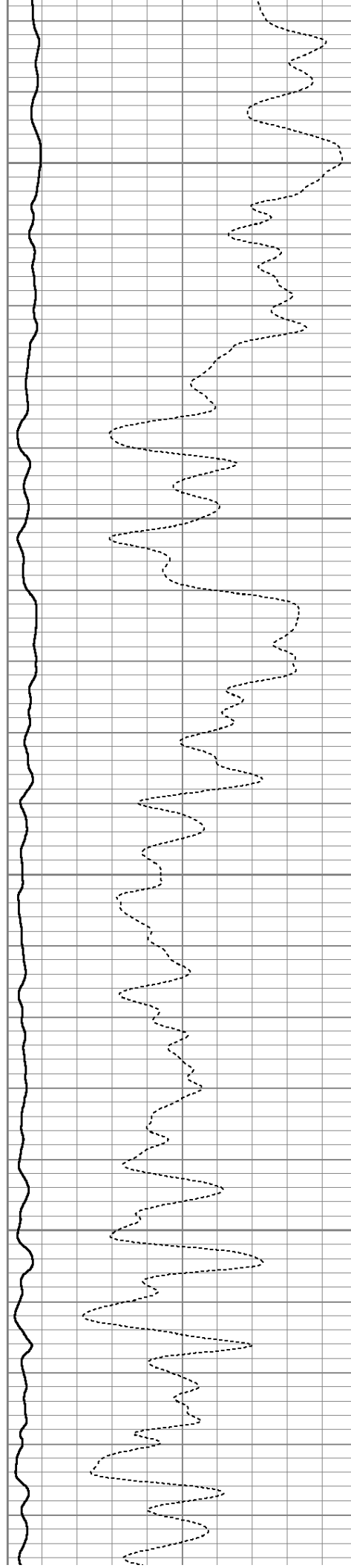


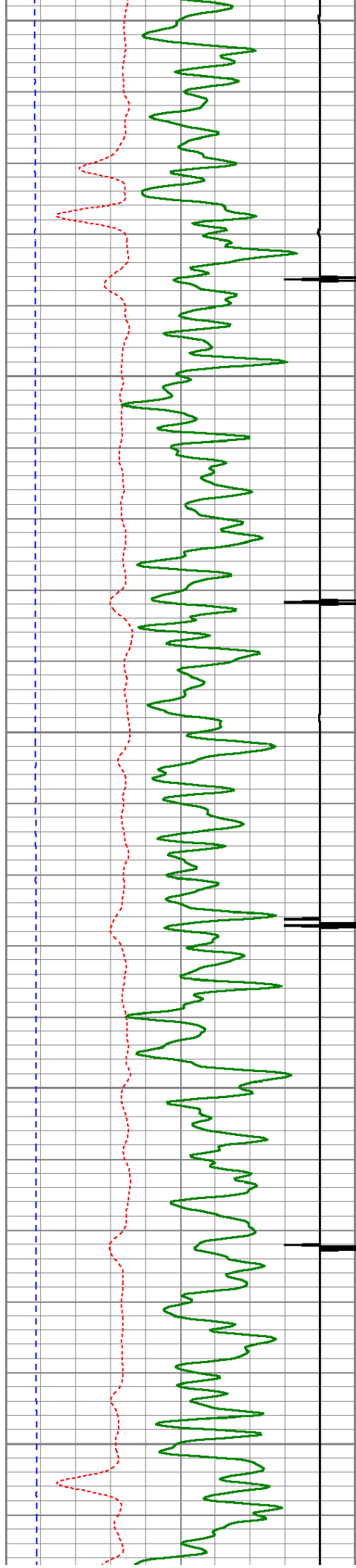
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1650





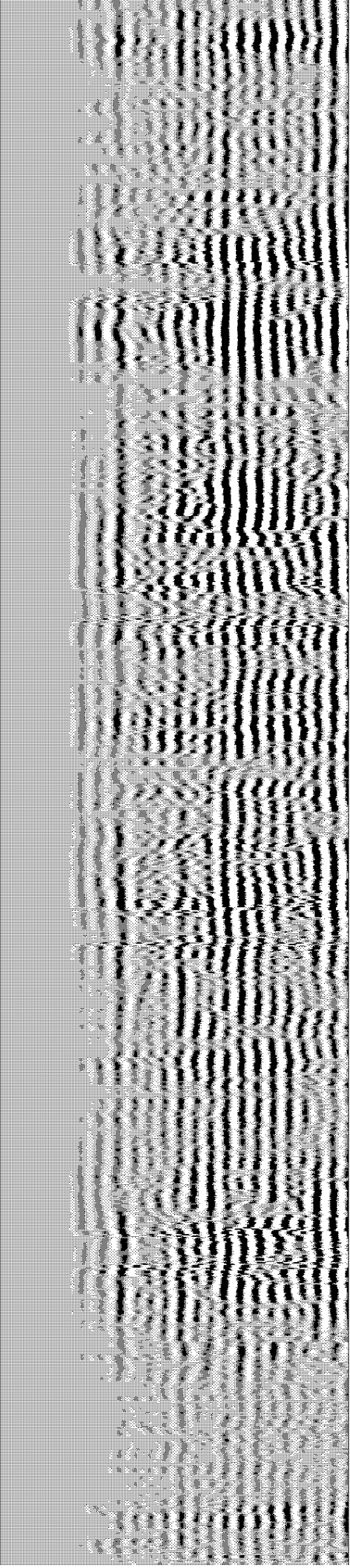
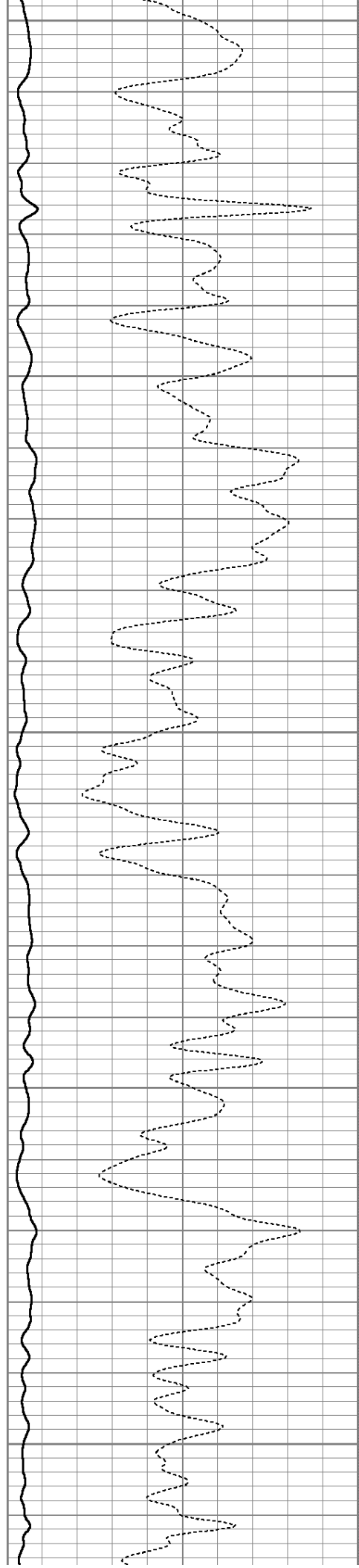
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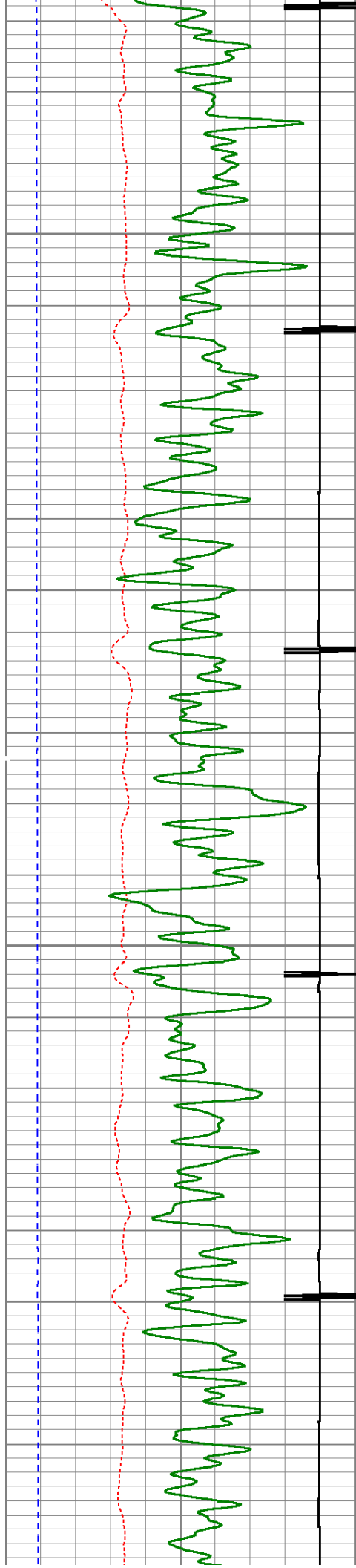
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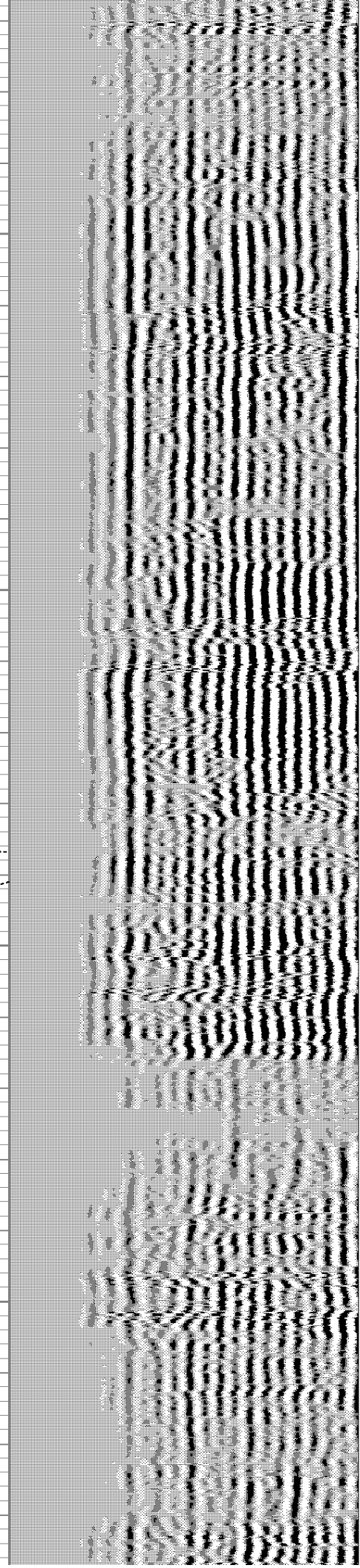
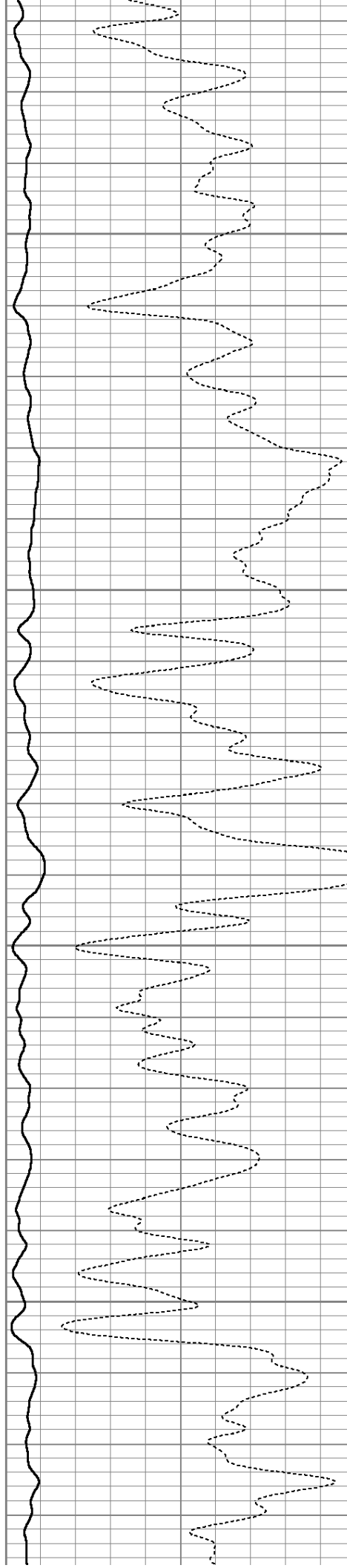


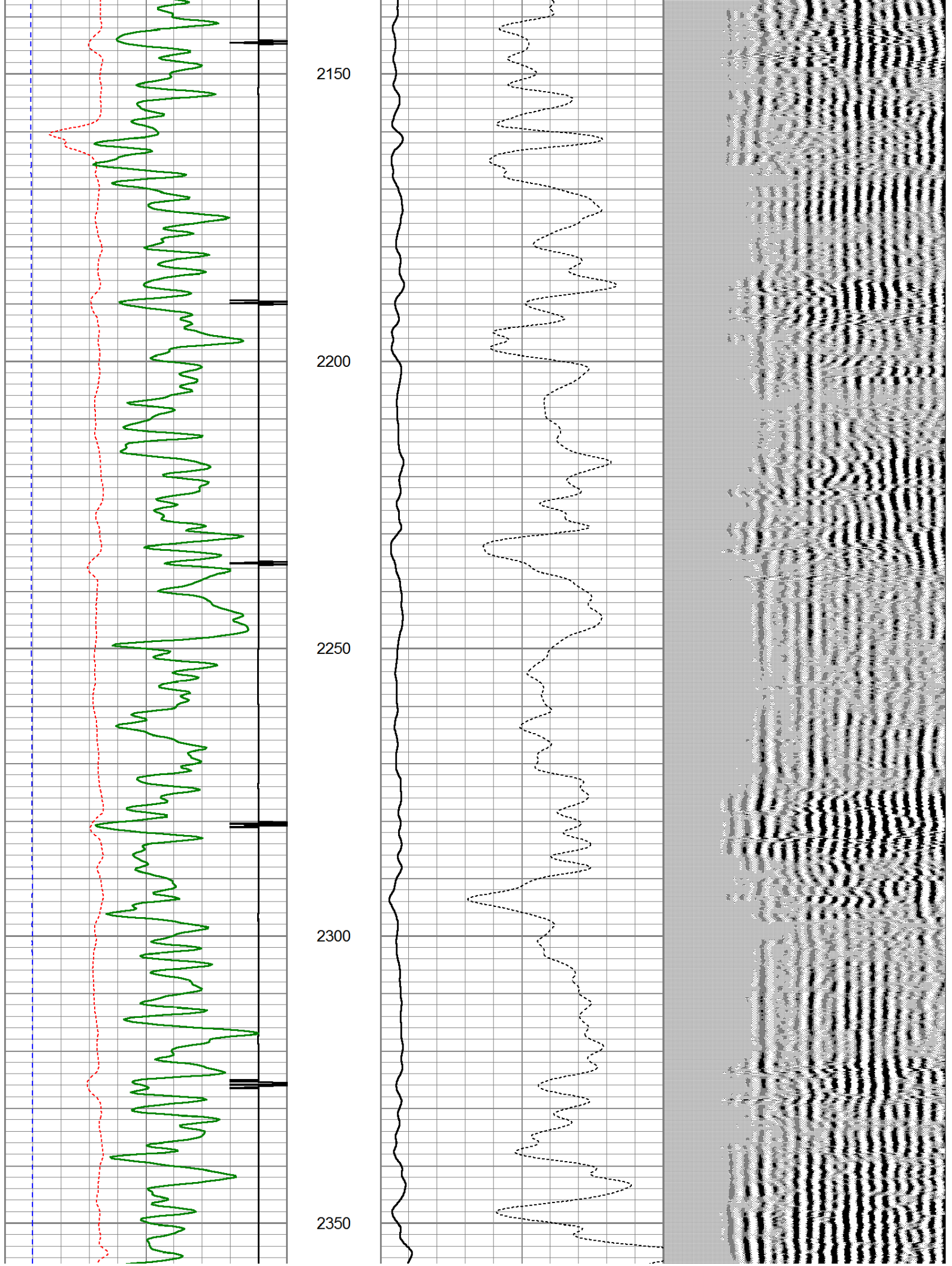
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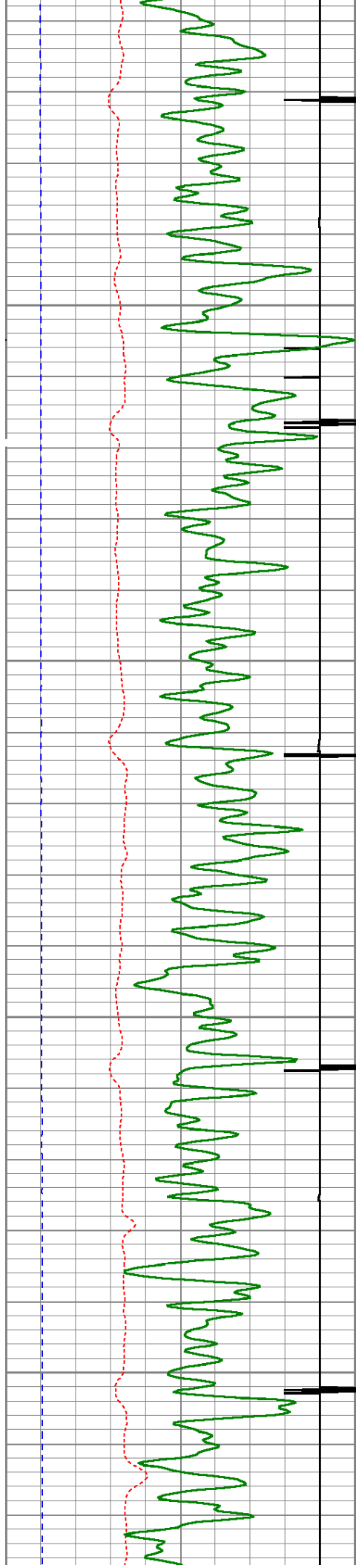
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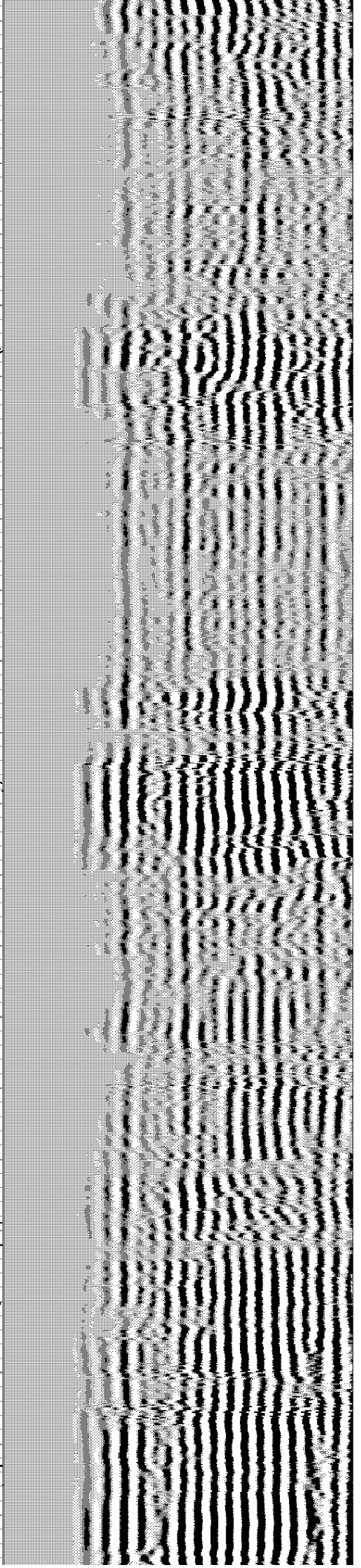
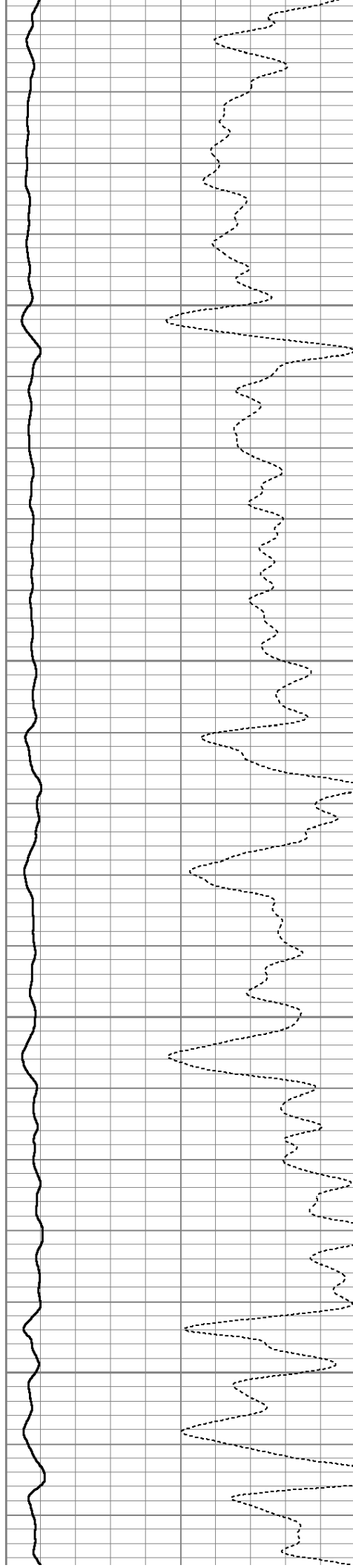


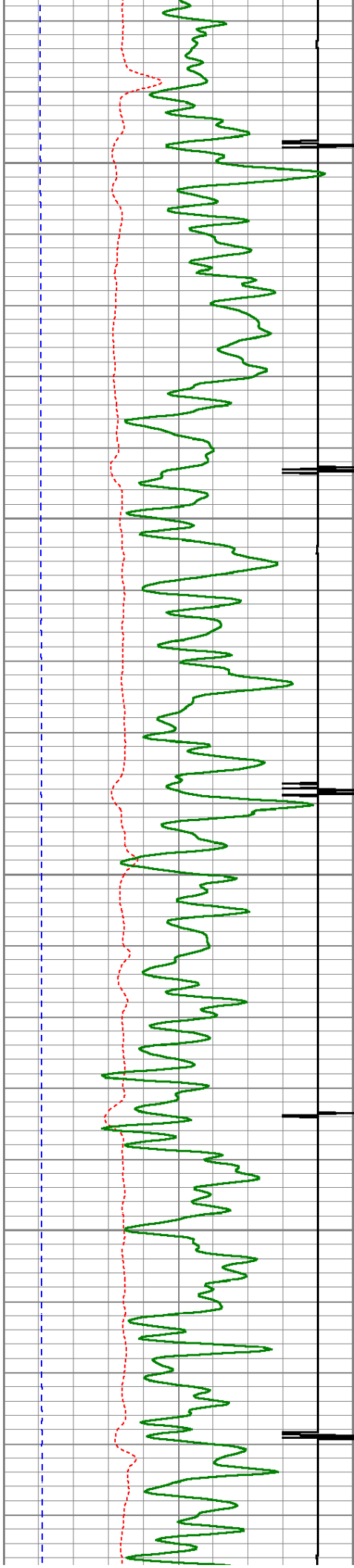
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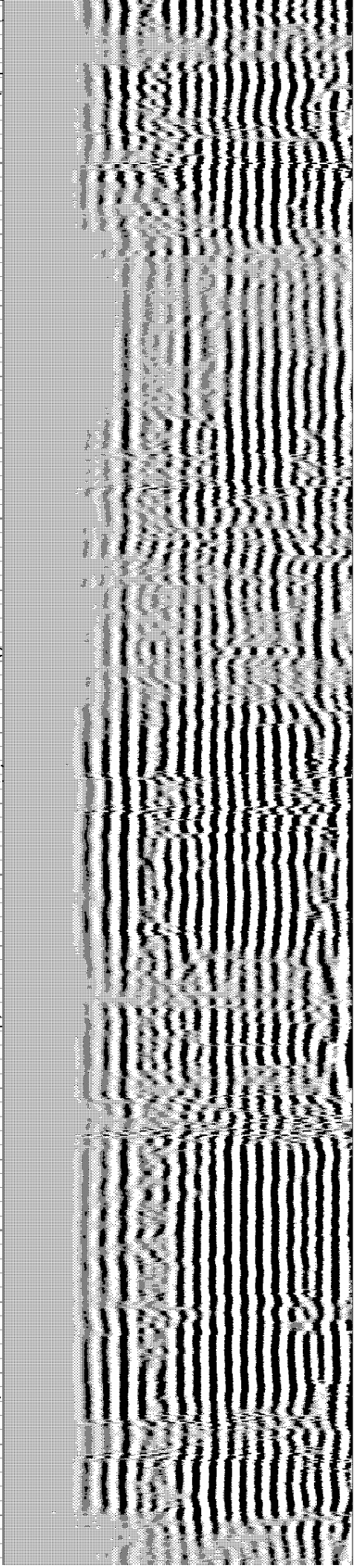
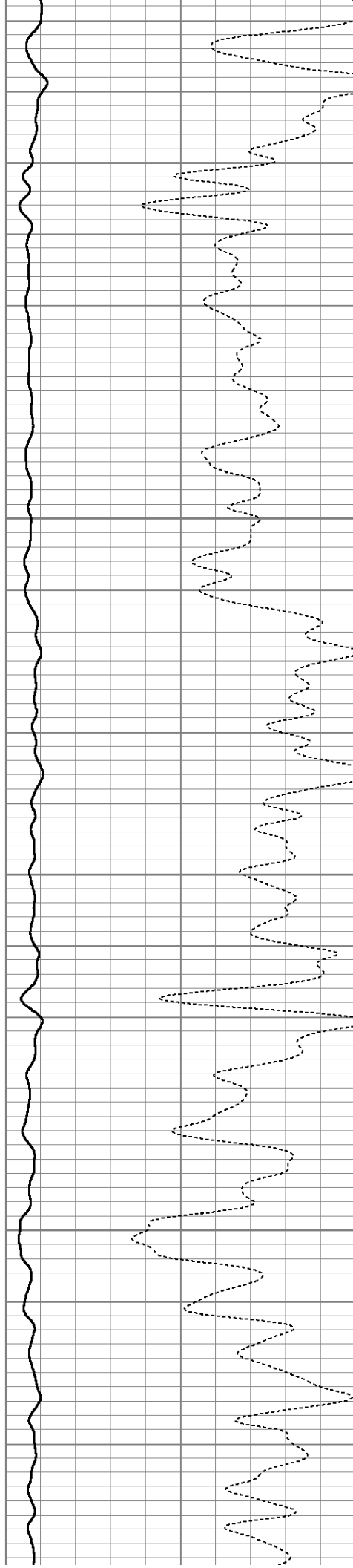


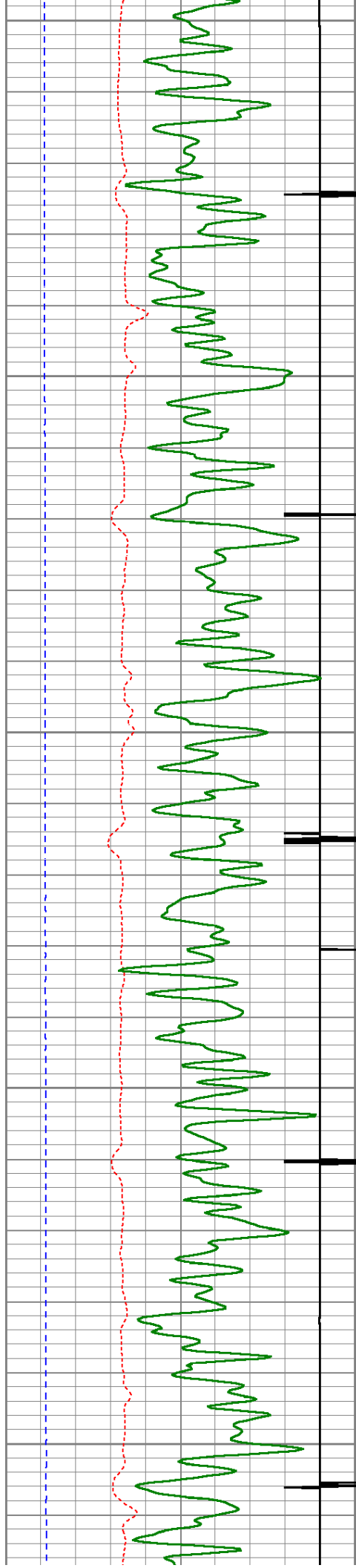
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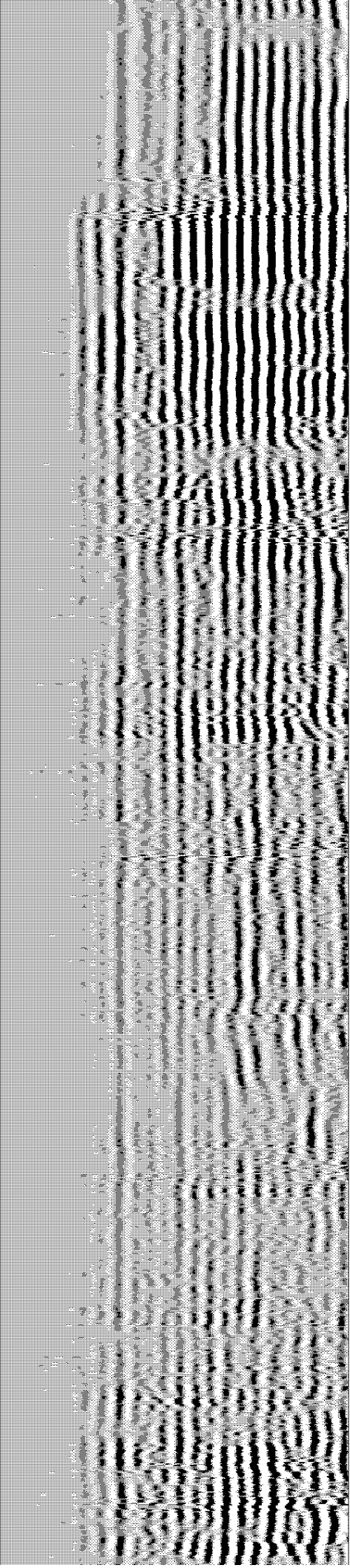
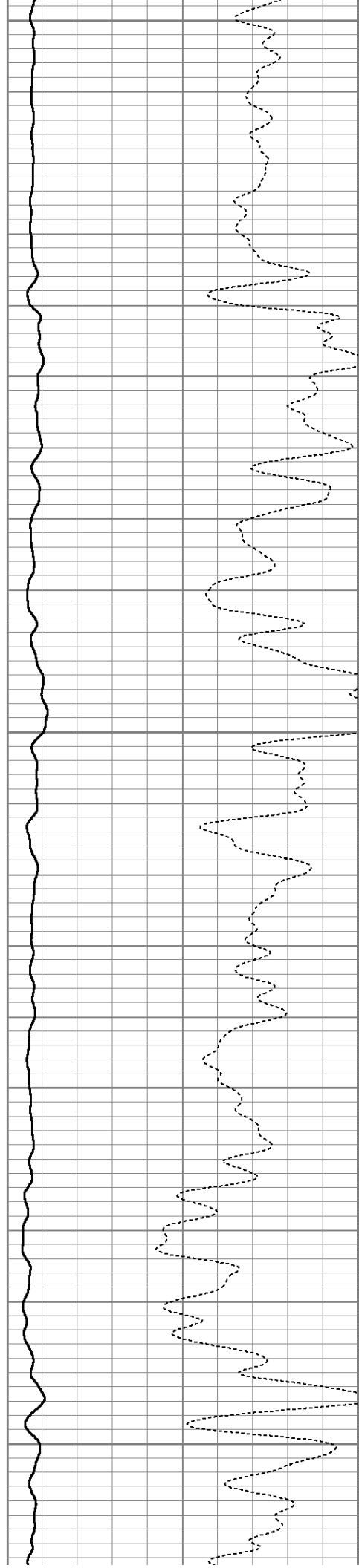
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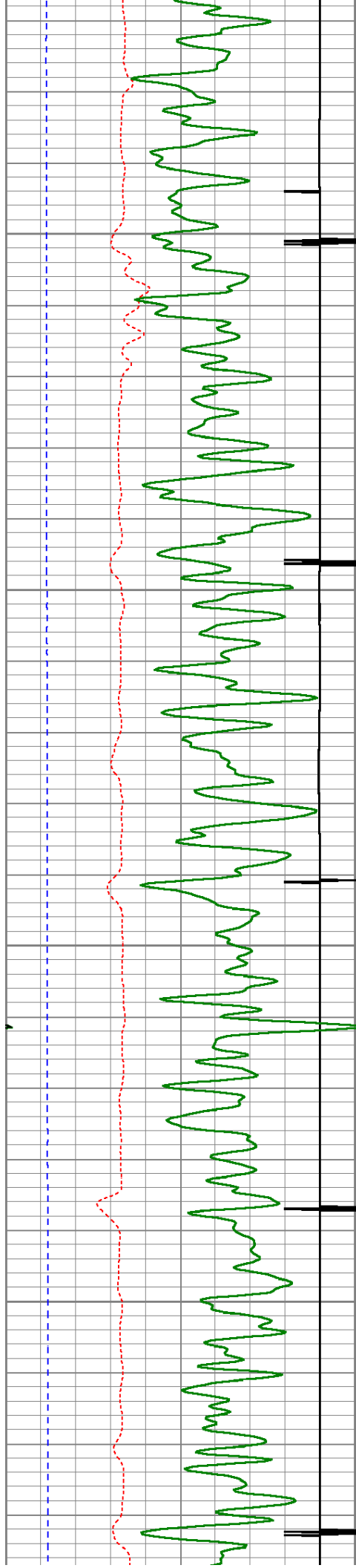
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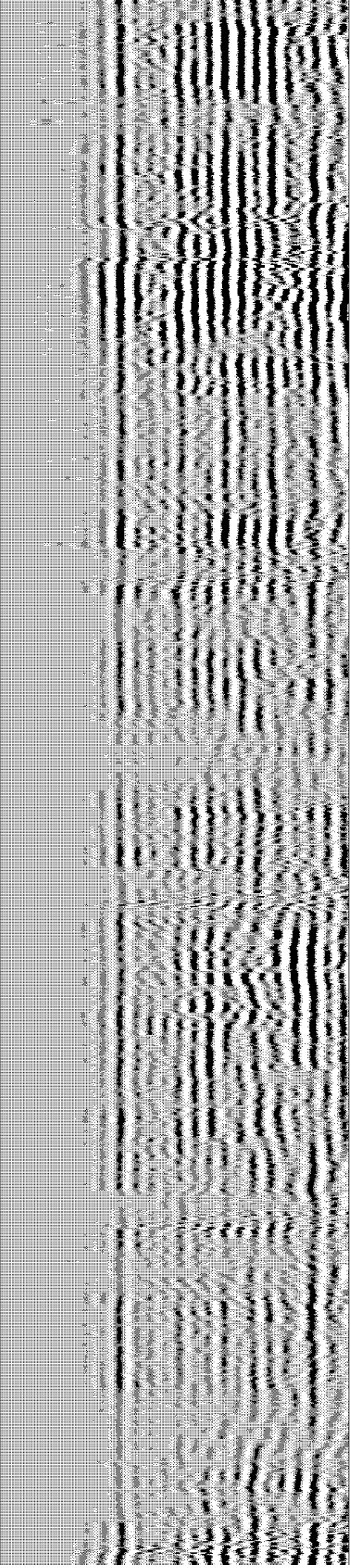
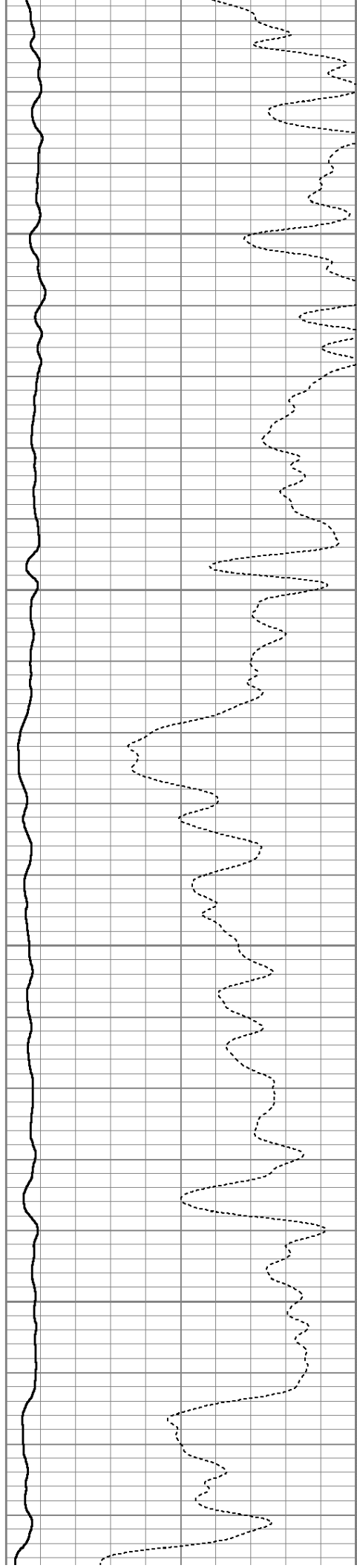


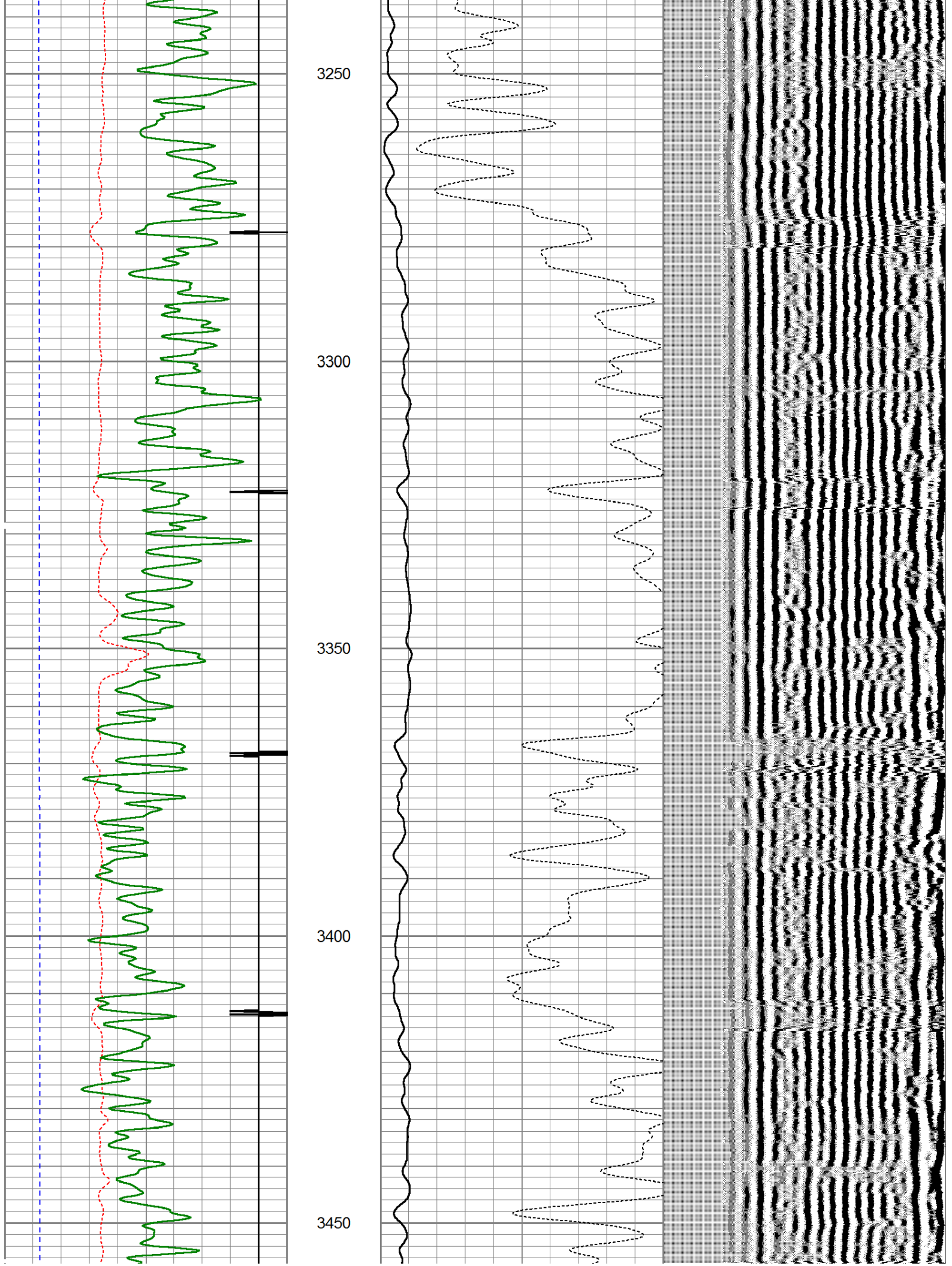
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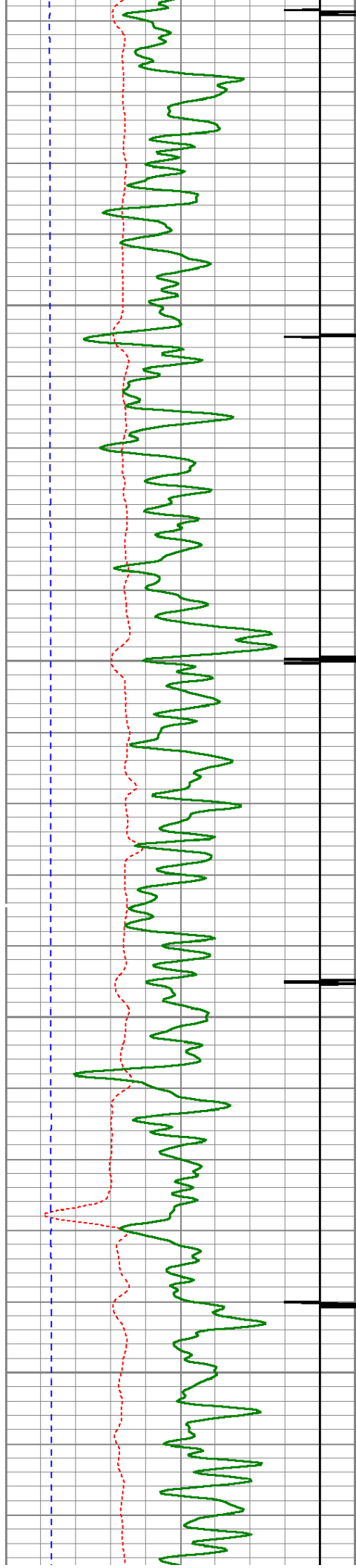
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3150

3200





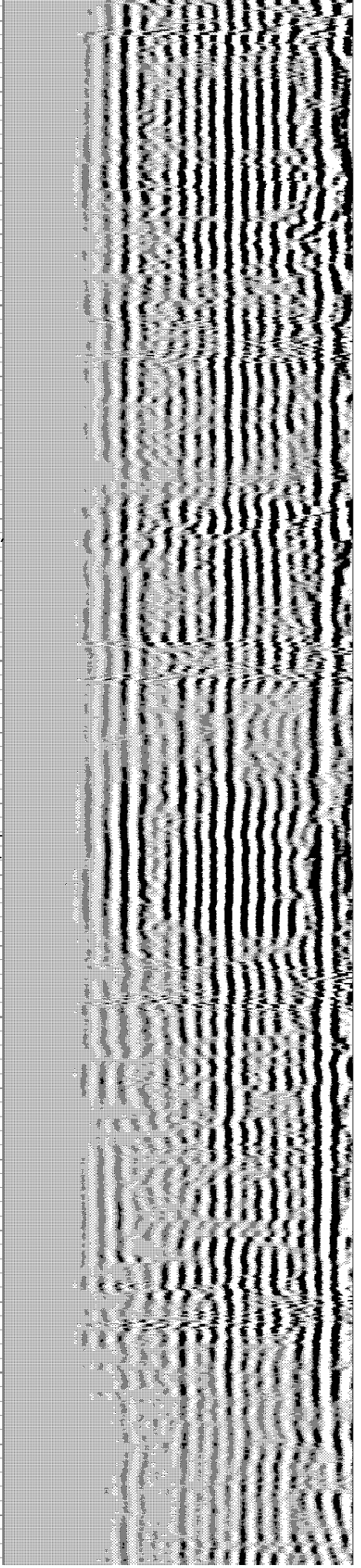
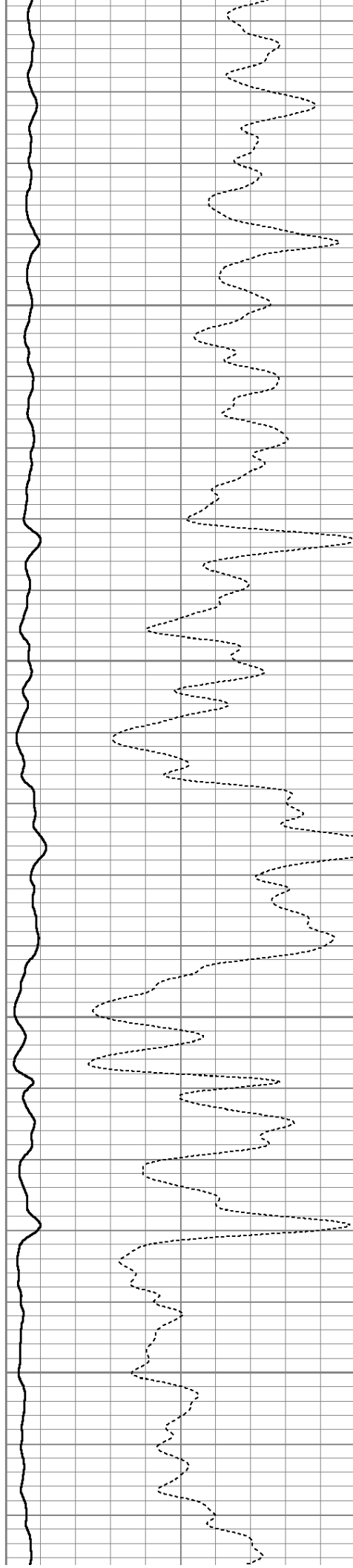


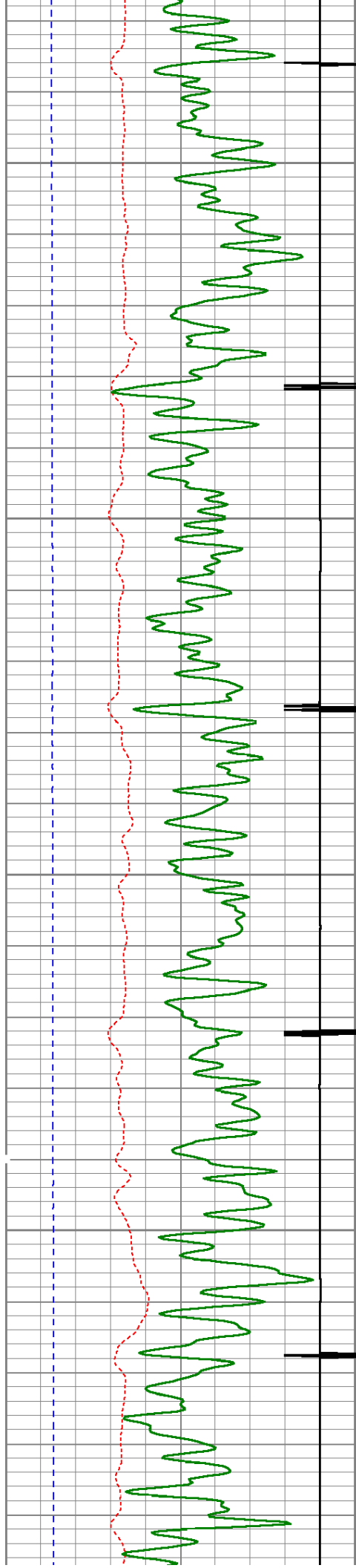
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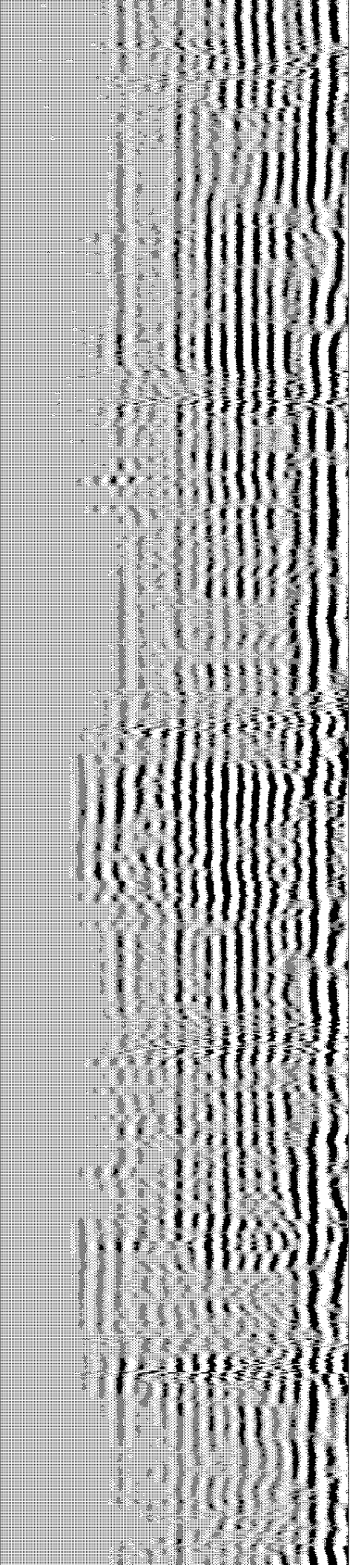
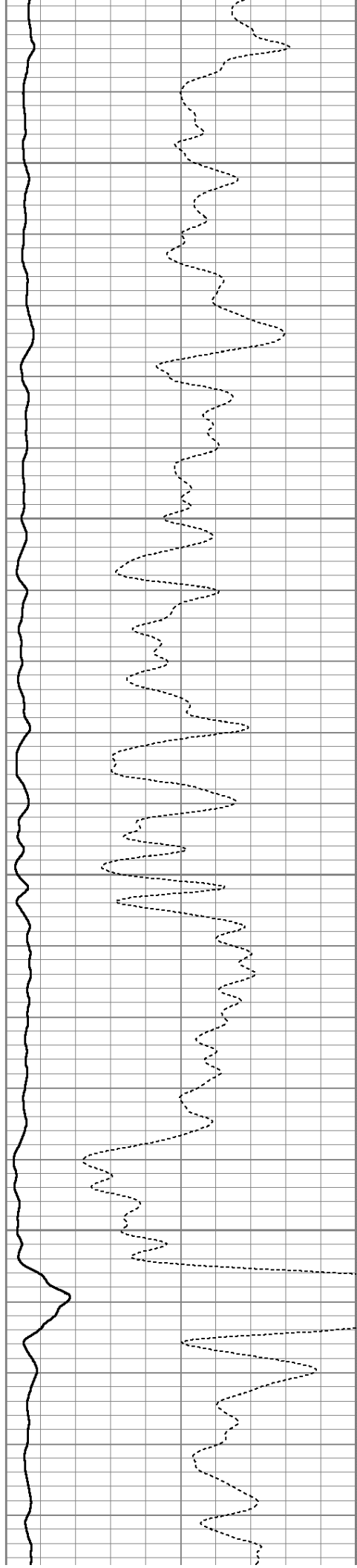


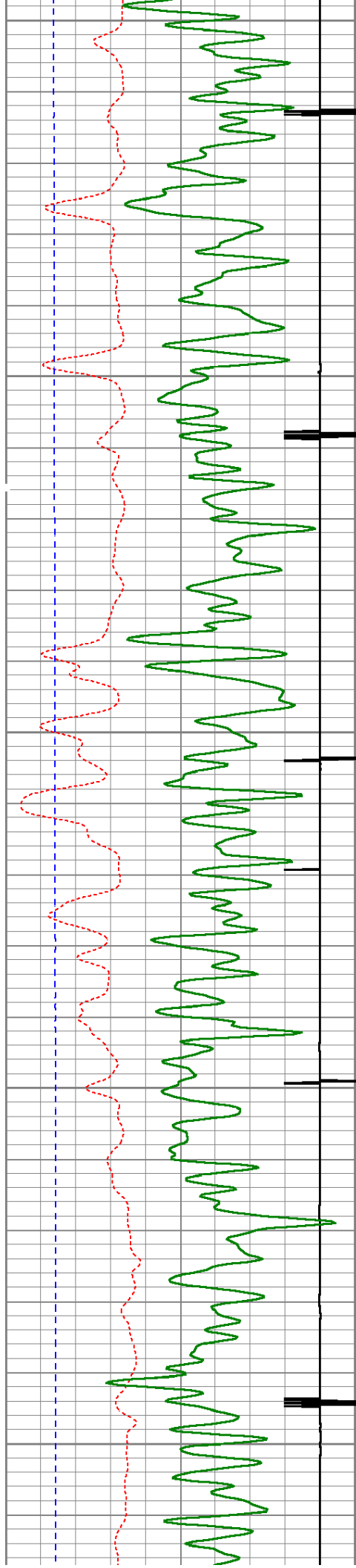
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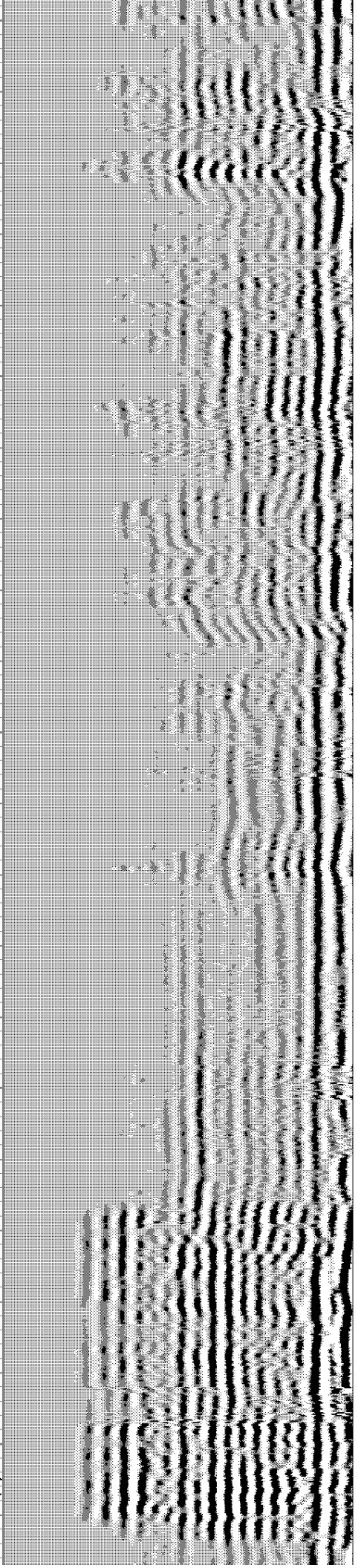
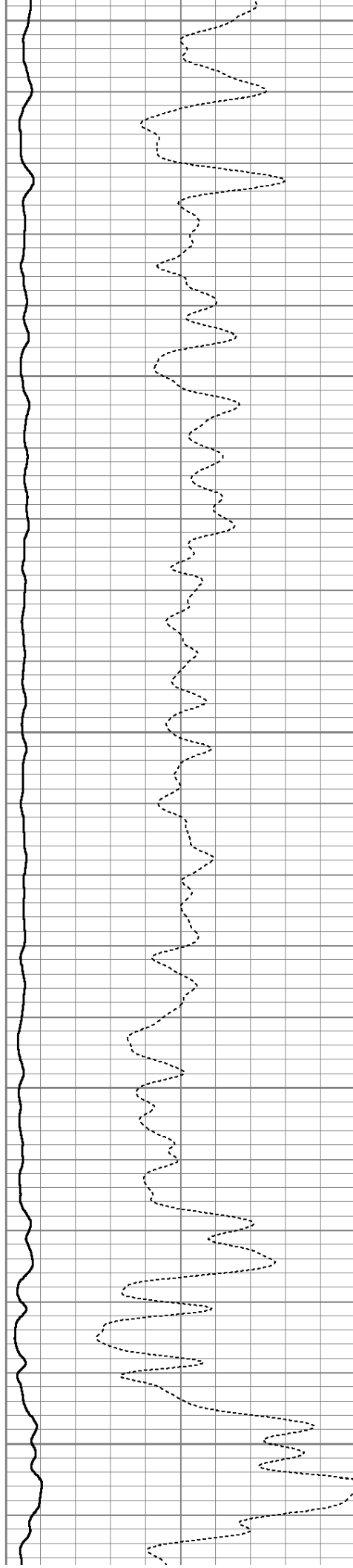
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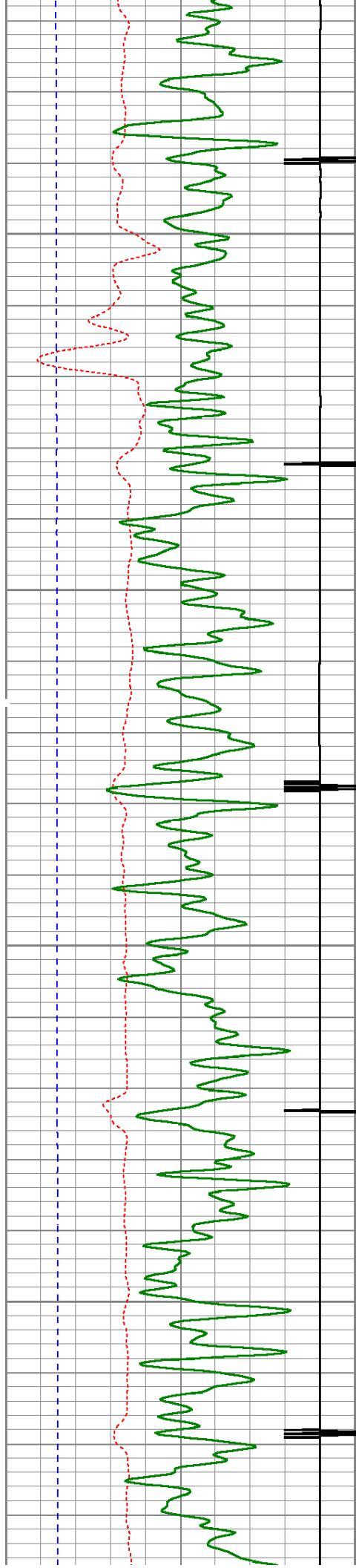
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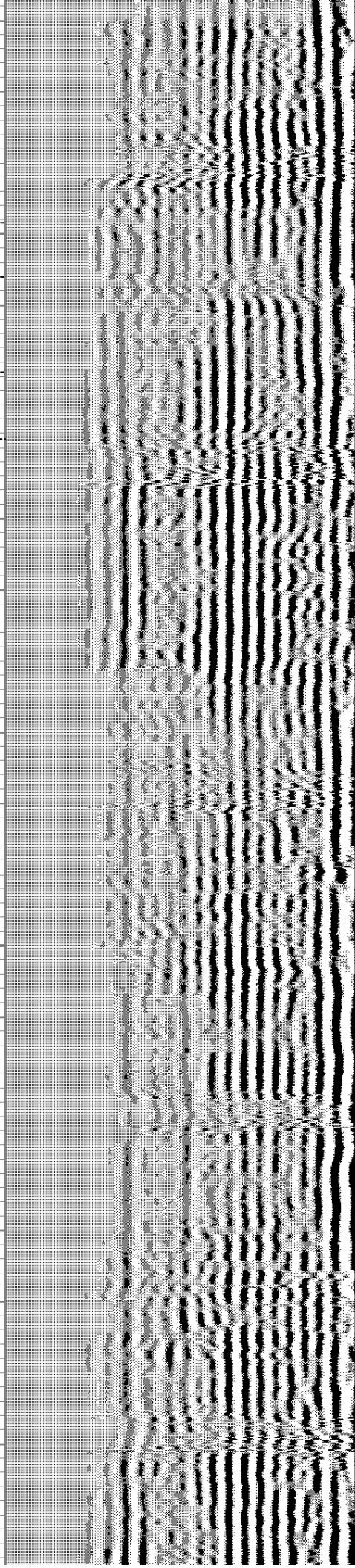
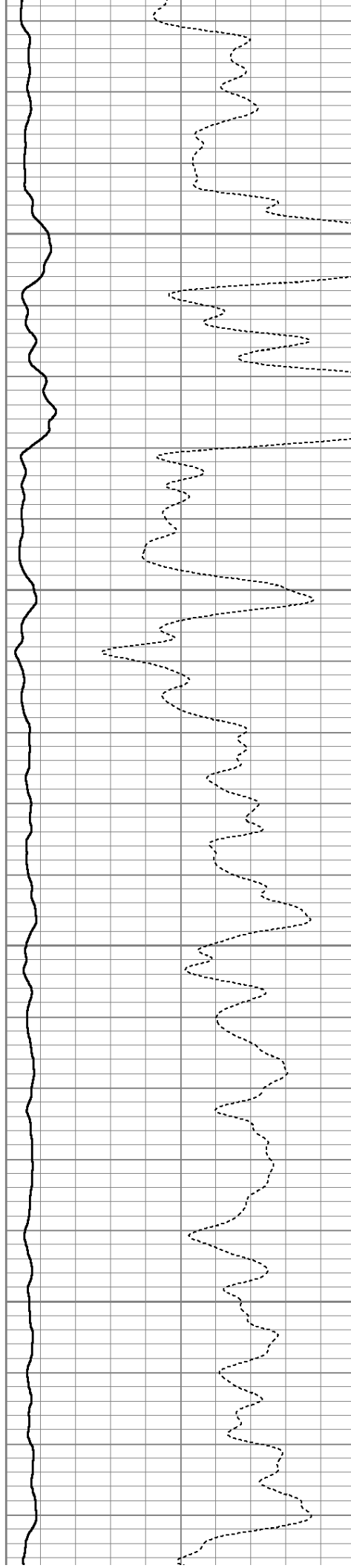


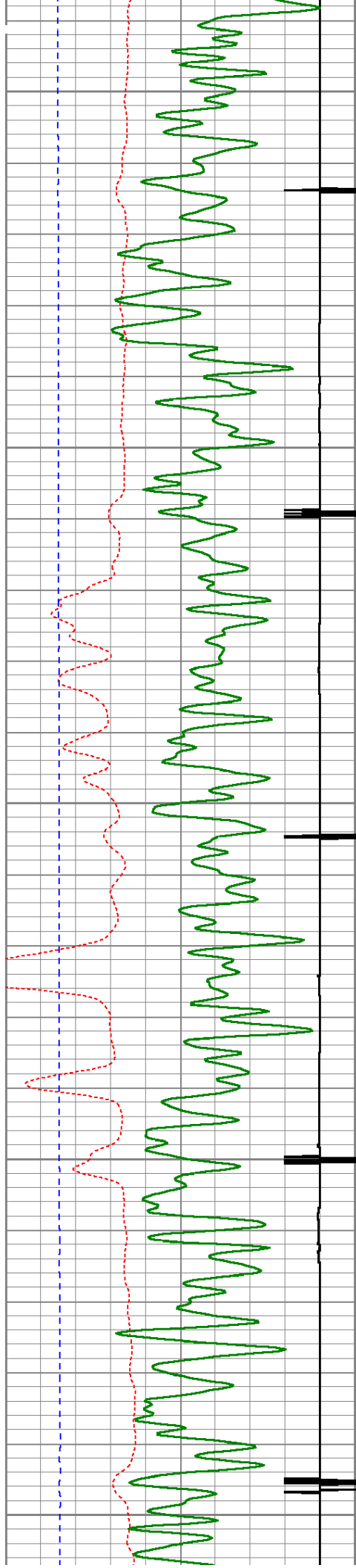
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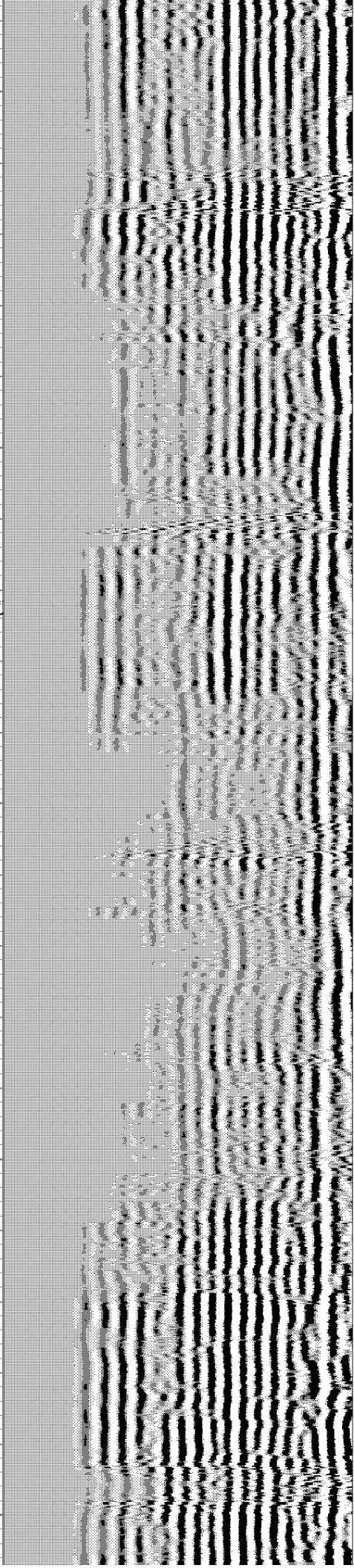
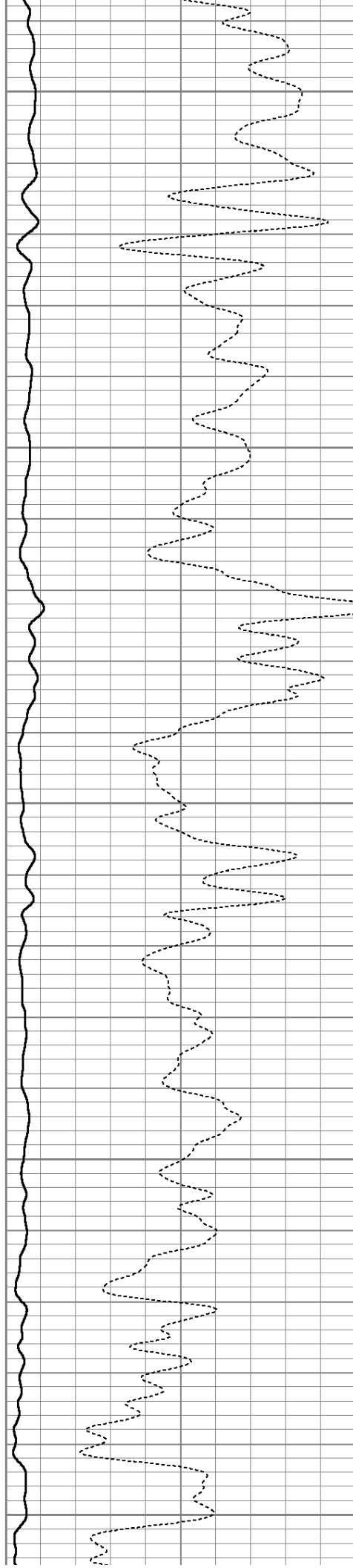
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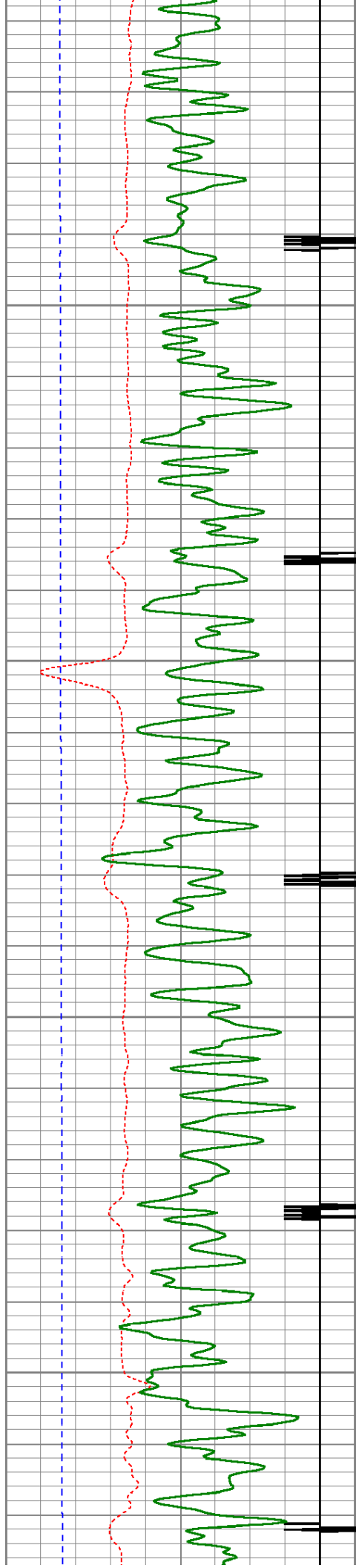
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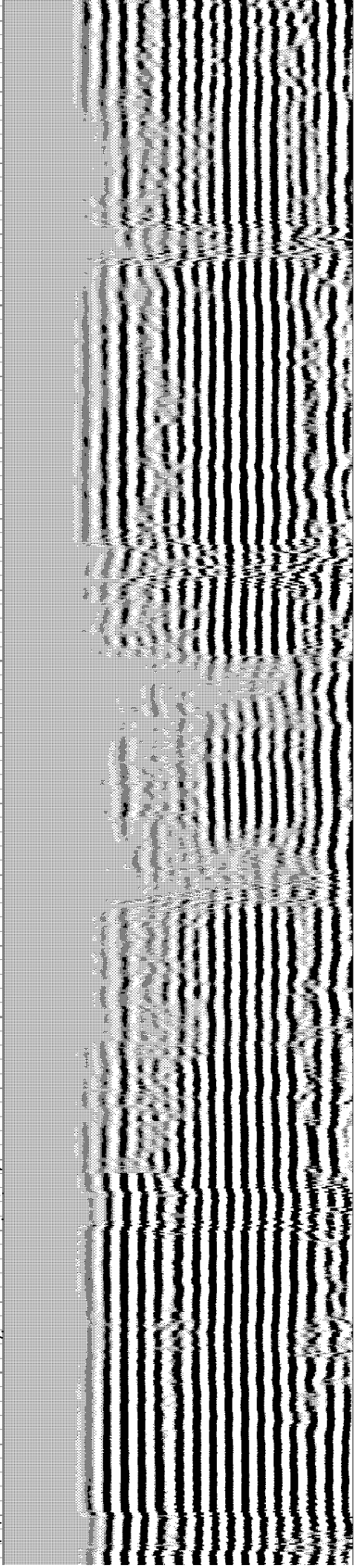
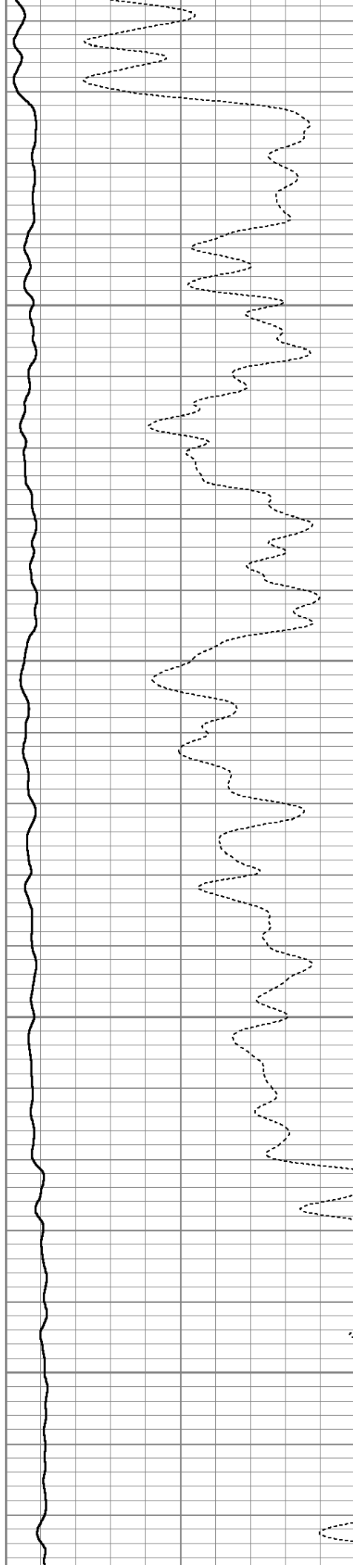


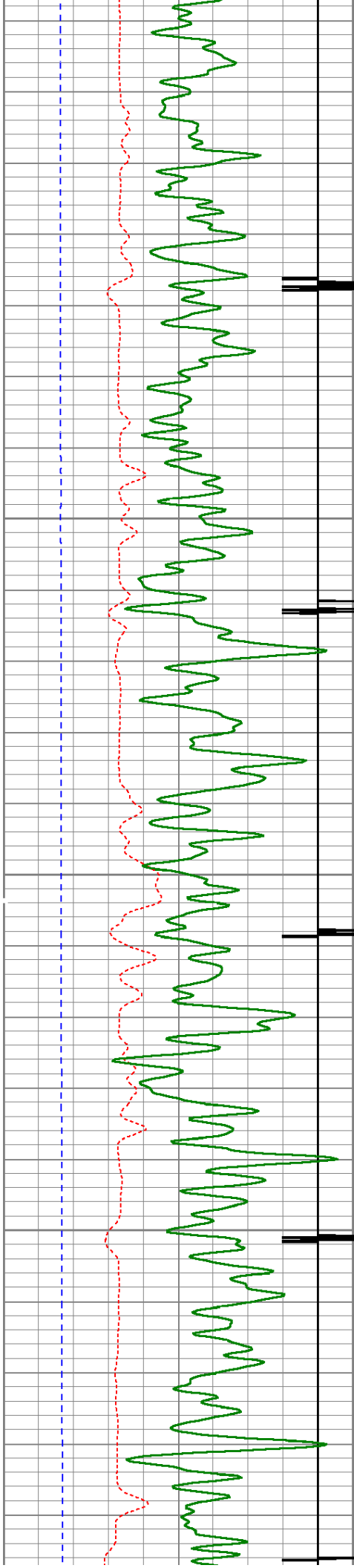
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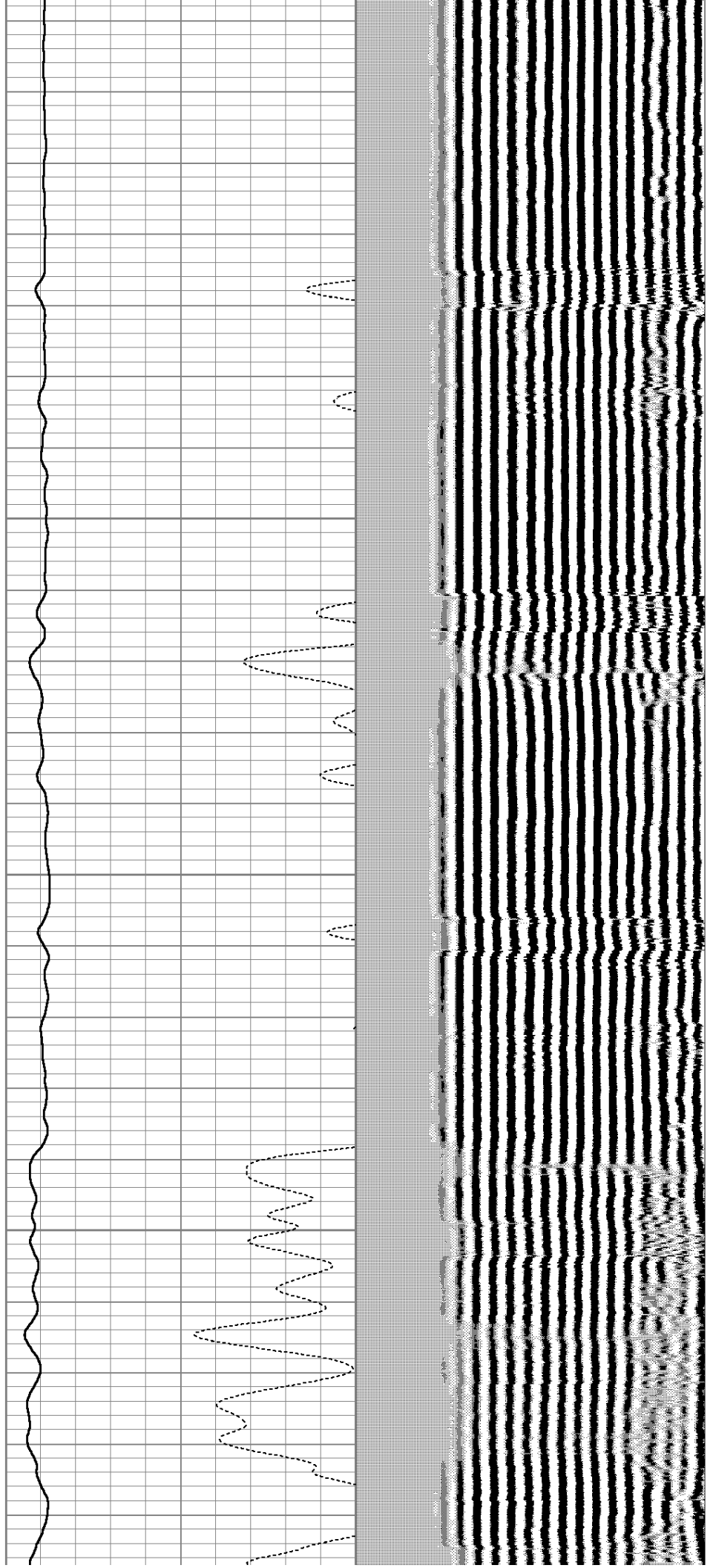


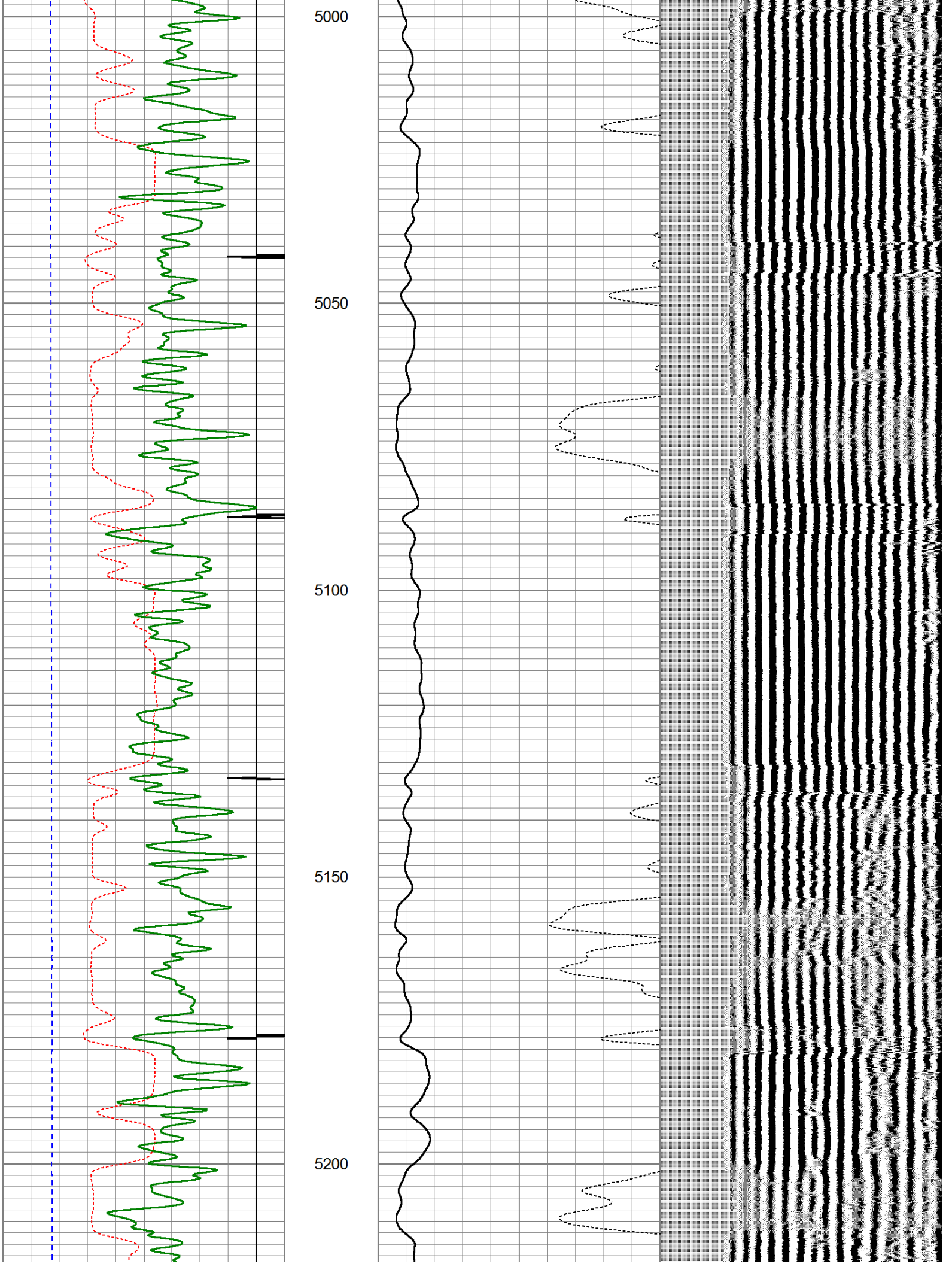
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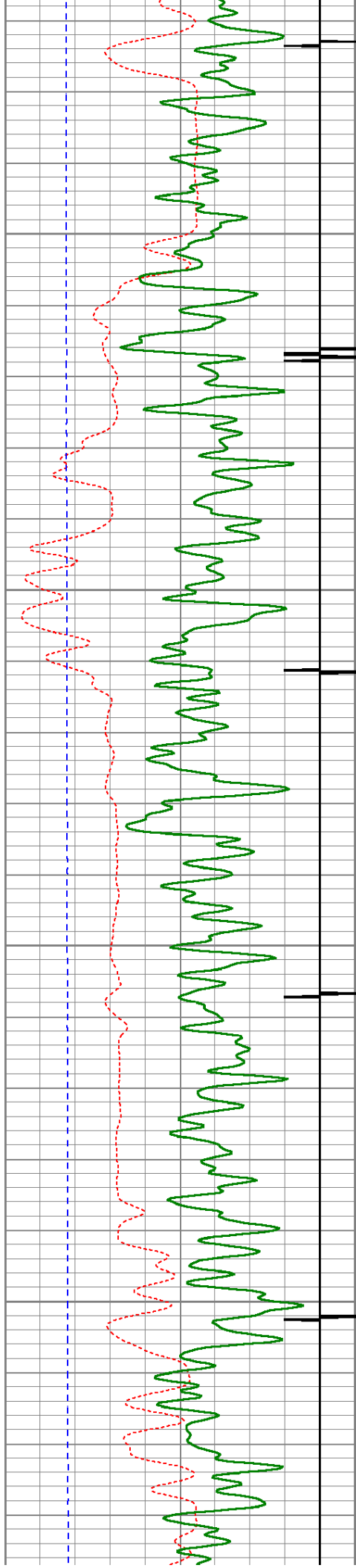
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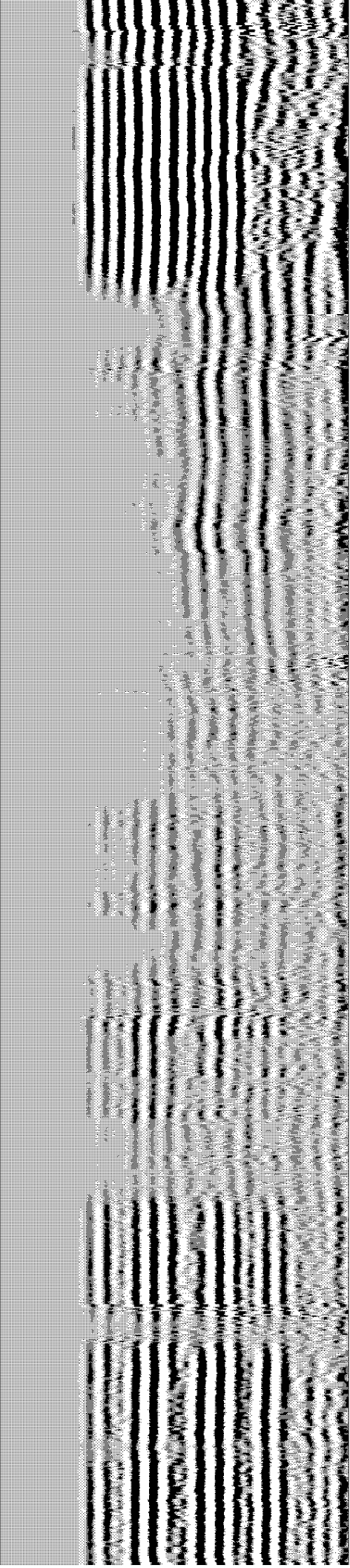
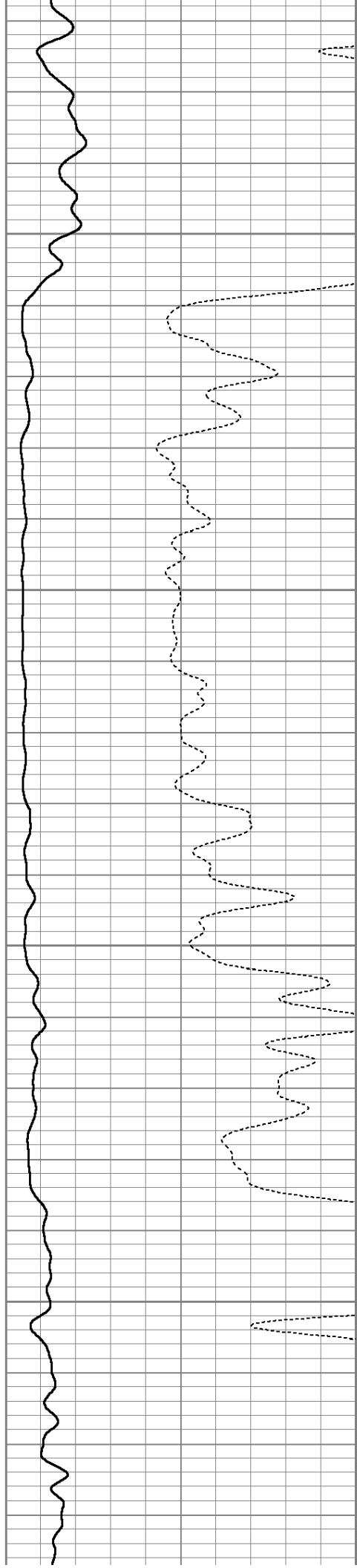


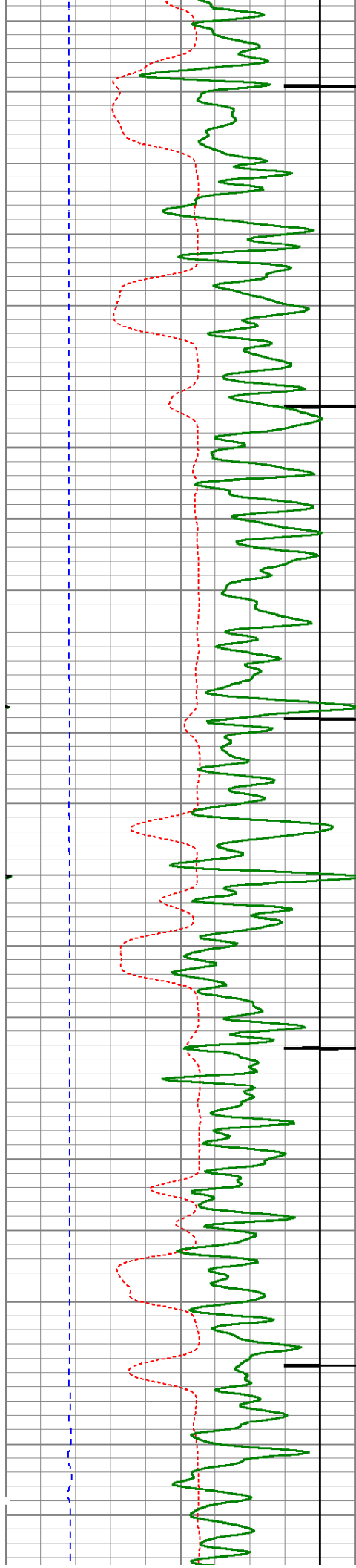
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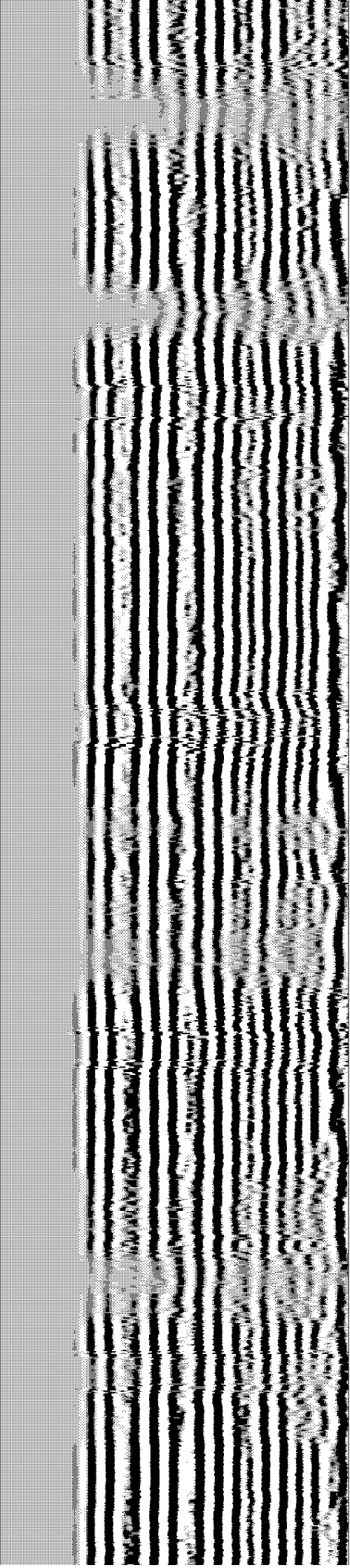
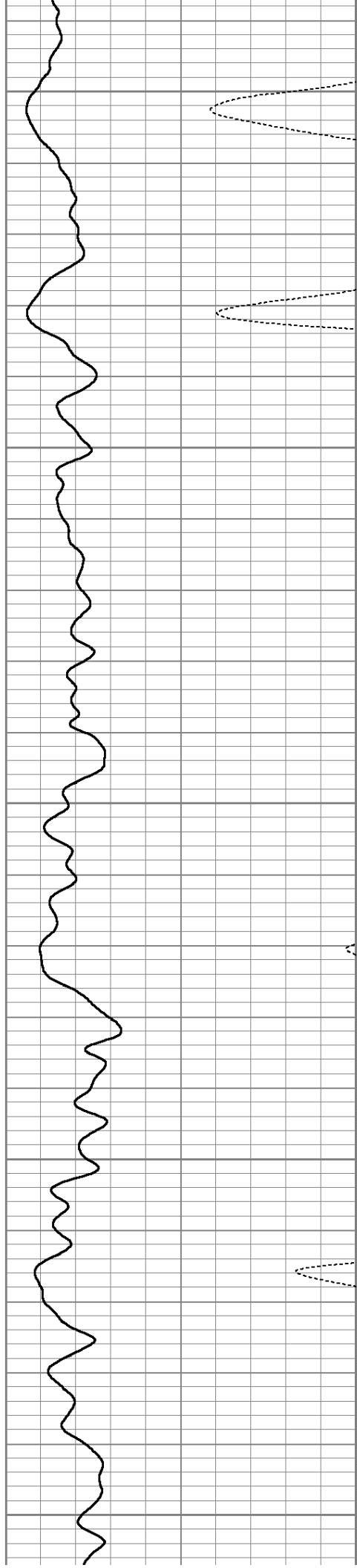
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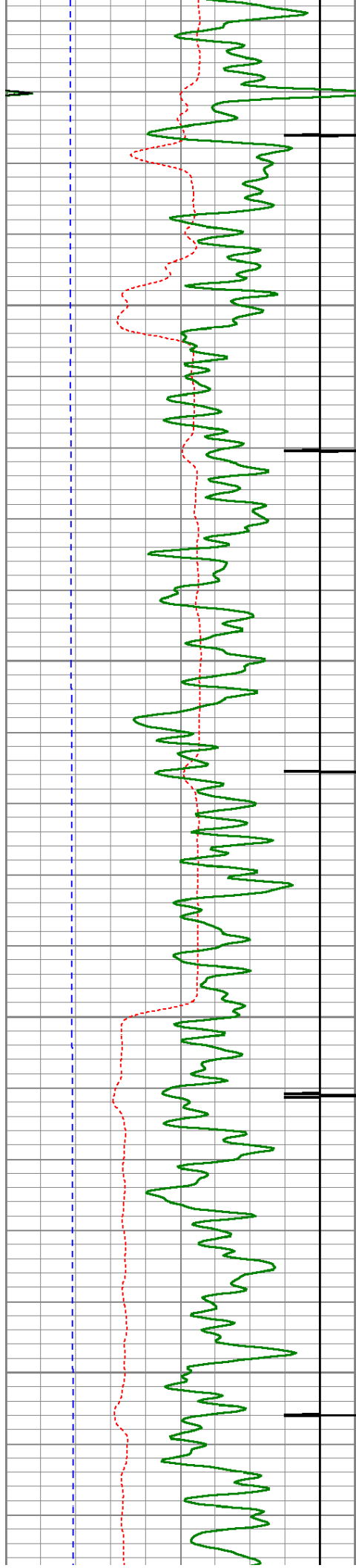
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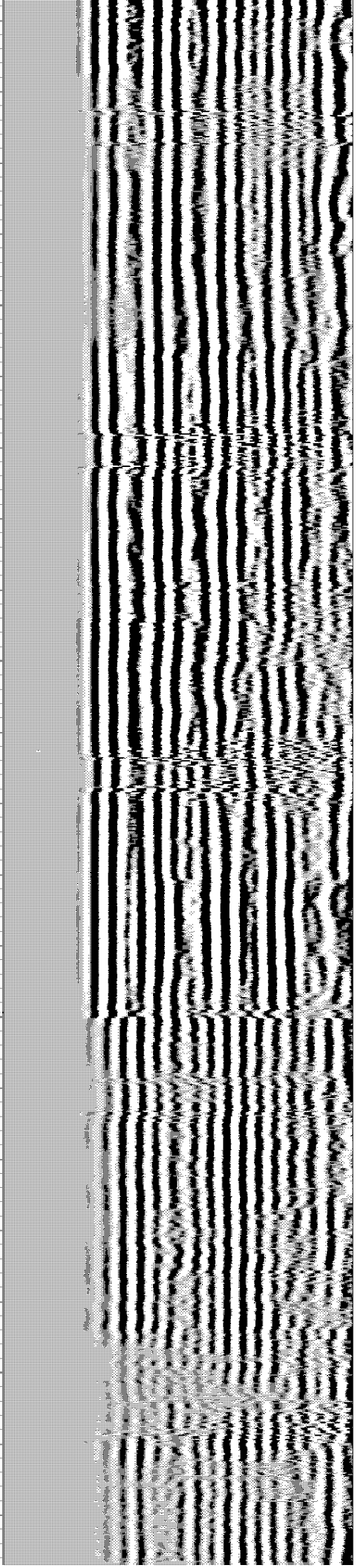
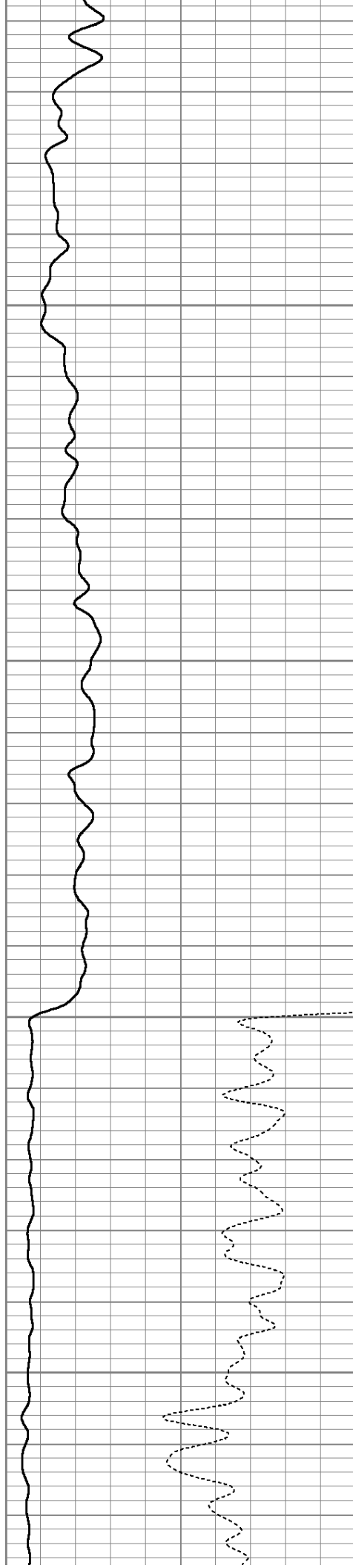


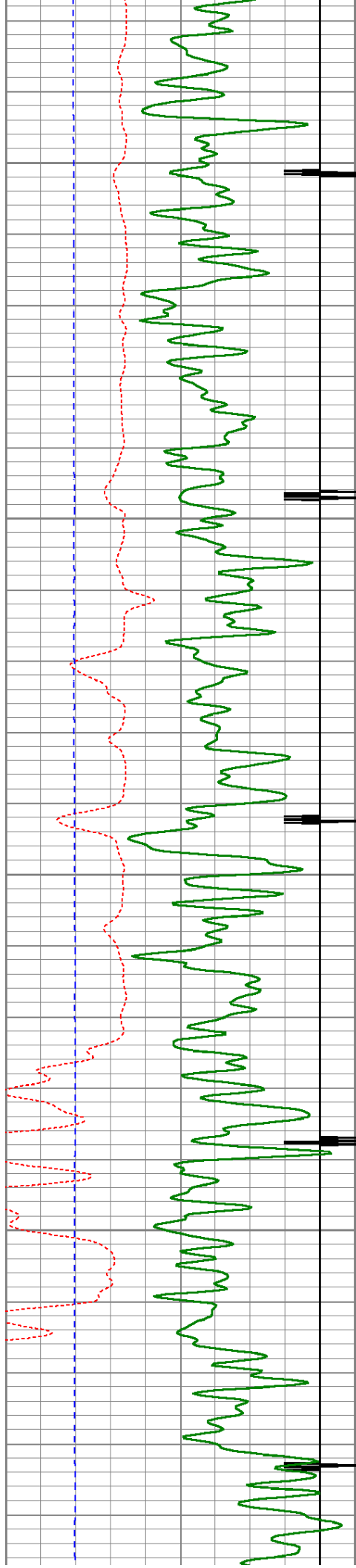
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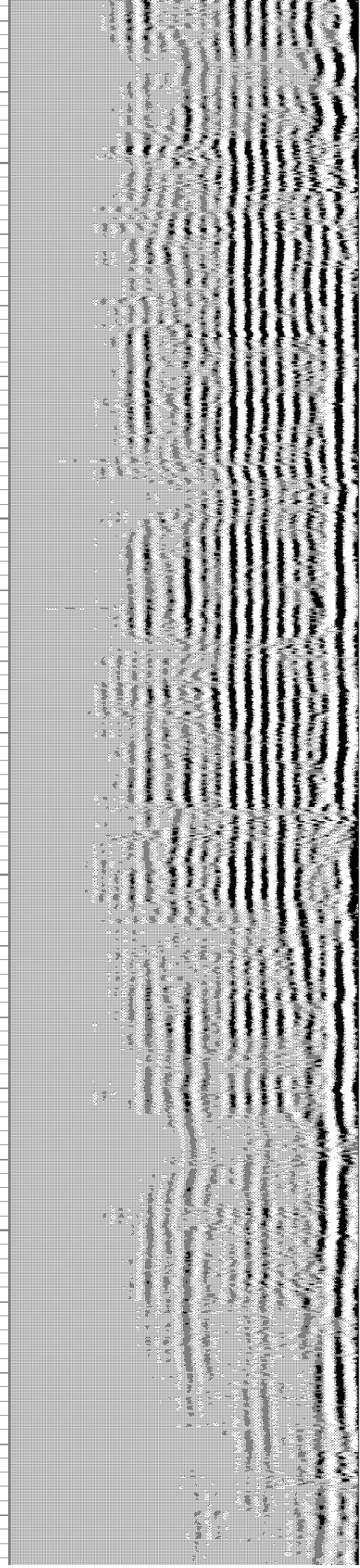
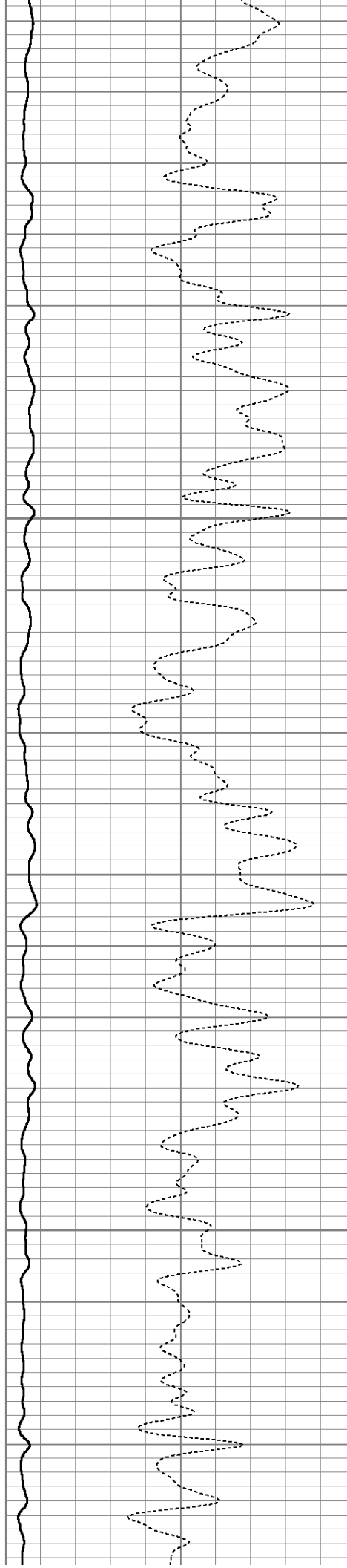


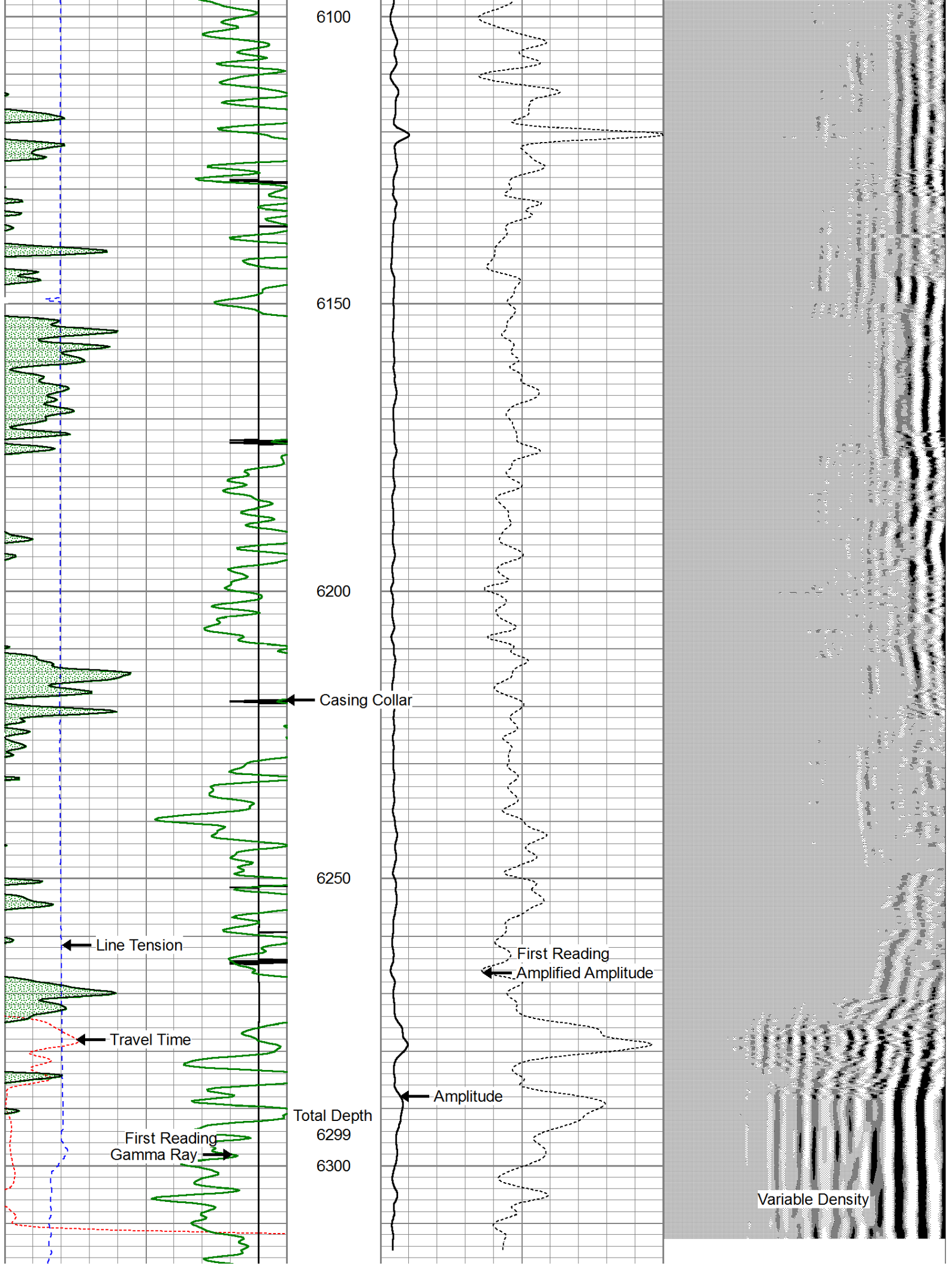
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6000

6050





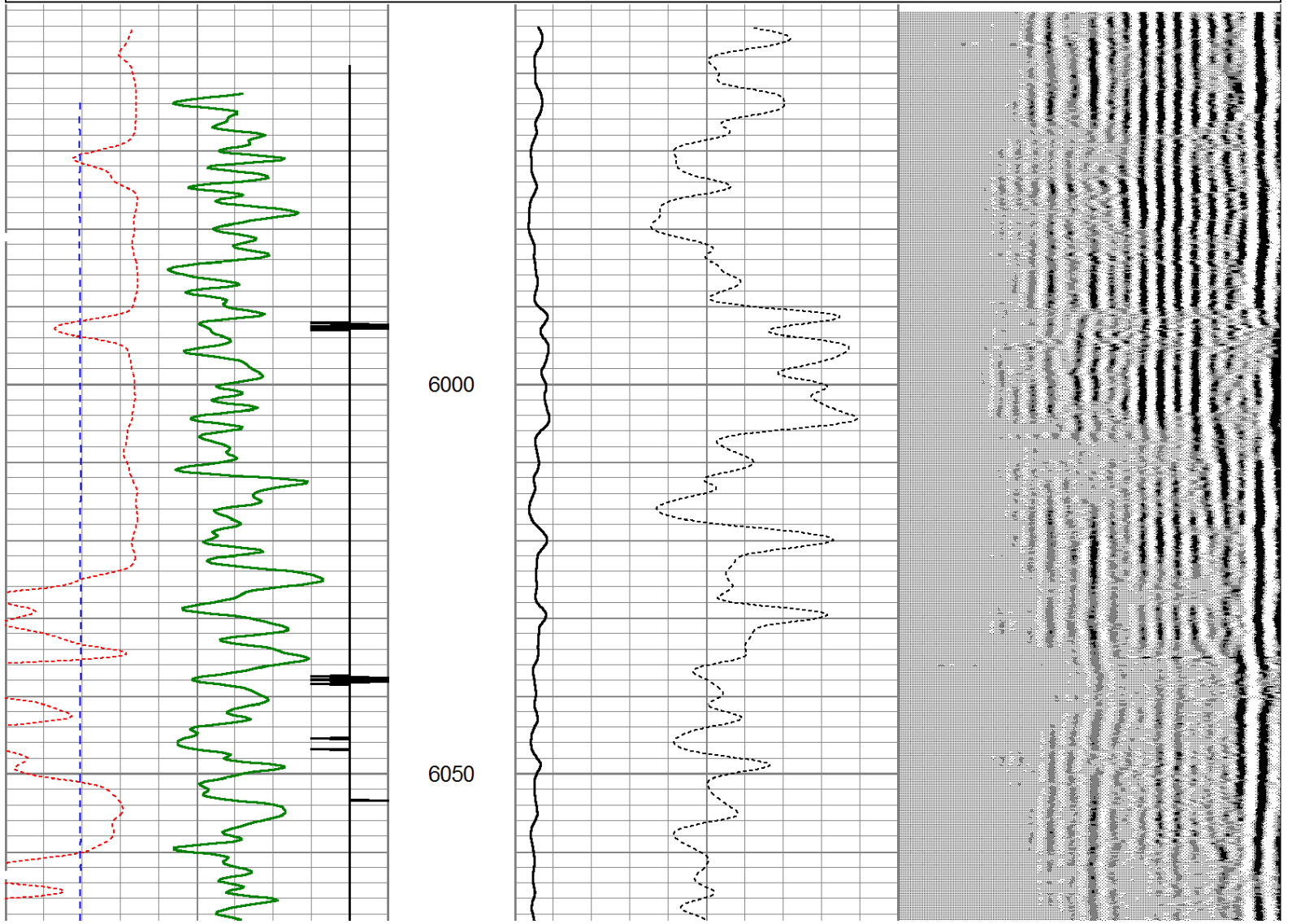
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9	Casing Collar	-1	0	Amplified Amplitude (mV)	10			
0	Gamma Ray (GAPI)	150						
0	Line Tension (lb)	5000						

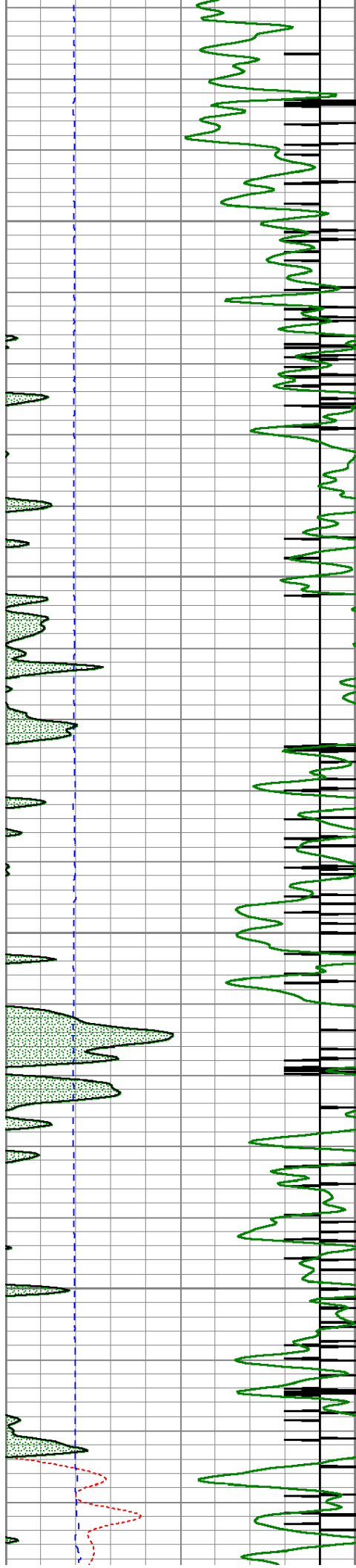


Repeat Pass (0 Pressure)

Database File: bonanza_creek_state_antelope_44_41_12_hnb_cbl.db
 Dataset Pathname: pass4
 Presentation Format: cblprobe
 Dataset Creation: Tue Apr 23 10:23:07 2013 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						



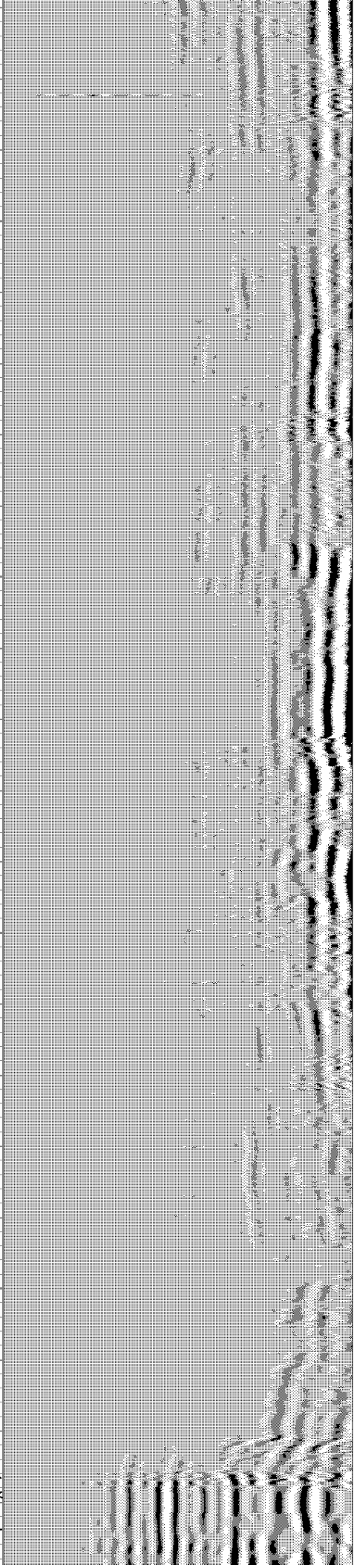
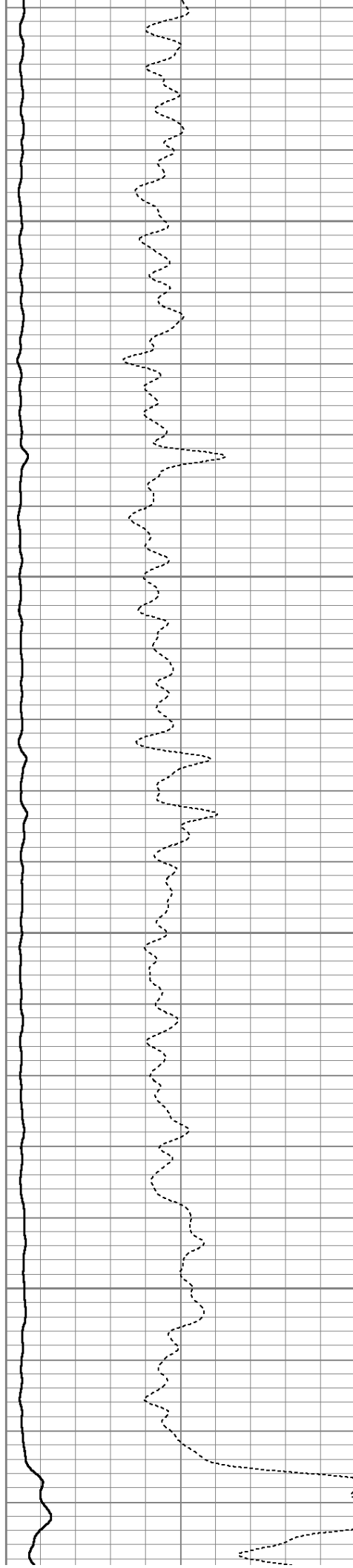


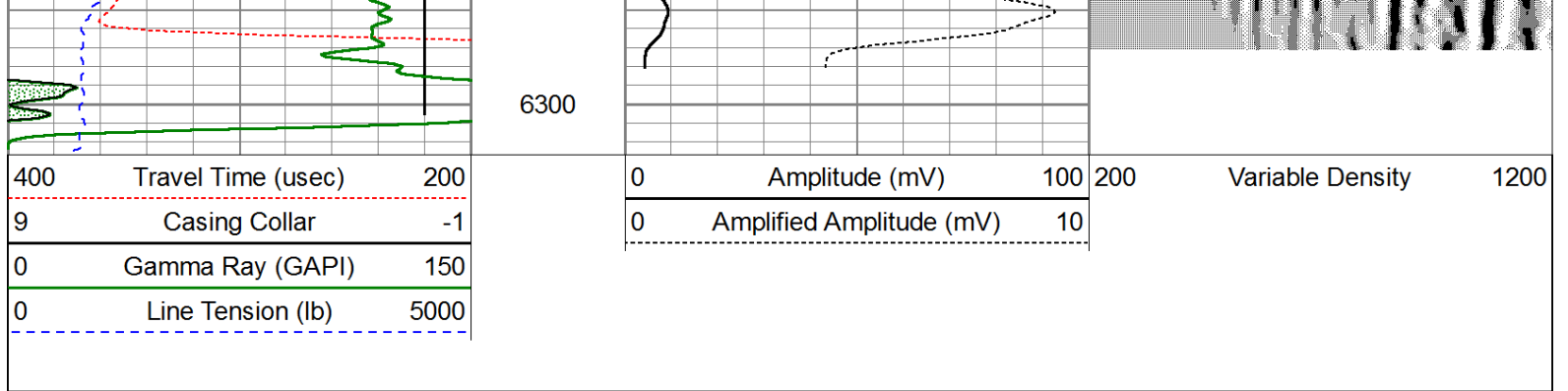
6100

6150

6200

6250





Calibration Report

Database File: bonanza_creek_state_antelope_44_41_12_hnb_cbl.db
 Dataset Pathname: pass6
 Dataset Creation: Tue Apr 23 10:31:01 2013 by Log SCH 120126

Gamma Ray Calibration Report

Serial Number:	120367-Dig		
Tool Model:	Probe275		
Performed:	Mon Apr 08 15:11:42 2013		
Calibrator Value:	138.0	GAPI	
Background Reading:	37.7	cps	
Calibrator Reading:	241.8	cps	
Sensitivity:	0.8500	GAPI/cps	

Segmented Cement Bond Log Calibration Report

Serial Number:	101203		
Tool Model:	Probe		
Calibration Casing Diameter:	8.625	in	
Calibration Depth:	2409.392	ft	

Master Calibration, performed Tue Apr 23 10:17:27 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	0.783	1.000	72.000	90.402	3.904
CAL	-0.008	0.619				
5'	-0.002	0.549	1.000	72.000	128.682	1.308
SUM						
S1	0.001	0.699	0.000	100.000	143.174	1.073
S2	-0.008	0.591	0.000	100.000	166.806	2.389
S3	-0.004	0.518	0.000	100.000	191.487	2.856
S4	-0.003	0.538	0.000	100.000	184.959	2.551
S5	-0.001	0.670	0.000	100.000	149.038	1.175
S6	0.000	0.811	0.000	100.000	123.307	1.012
S7	-0.001	0.819	0.000	100.000	121.957	1.064
S8	-0.003	0.764	0.000	100.000	130.361	1.368

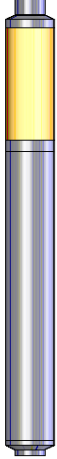
Internal Reference Calibration, performed Sat Mar 26 08:06:02 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.008	0.619	1.000	0.000

Air Zero Calibration, performed Tue Apr 23 09:51:04 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	-0.007	0.000	0.005
5'	-0.005	0.000	0.003
SUM			
S1	0.001	0.000	-0.000
S2	-0.001	0.000	-0.007
S3	-0.007	0.000	0.002
S4	-0.005	0.000	0.002
S5	-0.008	0.000	0.007
S6	-0.005	0.000	0.005
S7	-0.005	0.000	0.005
S8	-0.007	0.000	0.004

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	20.46		Titan Cable_head	1.00	1.44	10.00
CENT	19.46		Probe275 2.75\" Centralizer	2.88	2.75	20.00
WV3FT	12.02		RBT-Probe (101203) 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					
WV5FT	11.02					
CENT	7.83	Probe275 2.75\" Centralizer	2.88	2.75	20.00	
CP	4.96					

GR	4.96					
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_state_antelope_44_41_12_hnb_cbl.db: field/well/run1/pass6 Total Length: 20.46 ft Total Weight: 197.00 lb O.D.: 2.75 in
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