



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

Company Bonanza Creek Energy
Well North Platte E-A-24HNC
Field Wattenberg
County Weld
State Colorado

Company Bonanza Creek Energy
Well North Platte E-A-24HNC
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-39517-00

SEC 24 TWP 5N RGE 63W

SE SW

Other Services
NONE

Permanent Datum
Log Measured From
Drilling Measured From
Ground Level
Elevation
Kelly Bushing at 17'
Kelly Bushing
Elevation
K.B. 4584'
D.F. 4551'
G.L. 4568'

Date 8/16/2014

Run Number	1		
Depth Driller			
Depth Logger	6850'		
Bottom Logged Interval	6850'		
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	8:00		
Time Logger on Bottom	9:20		
Equipment Number	13034		
Location	Brighton		
Recorded By	N. Menchaca		
Witnessed By	K. Dodge		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
1							
2							
3							
Casing Record							
Surface String	Size	9.625"	Wd/ft	36#	Top	0'	Bottom
Prot. String							
Production String	7"		26#		0'		6975'
Liner							

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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

Logged From Liner Top To SURFACE

Main Pass and Repeat Pass logged with 0 PSI

Thank You For using Allied Wireline

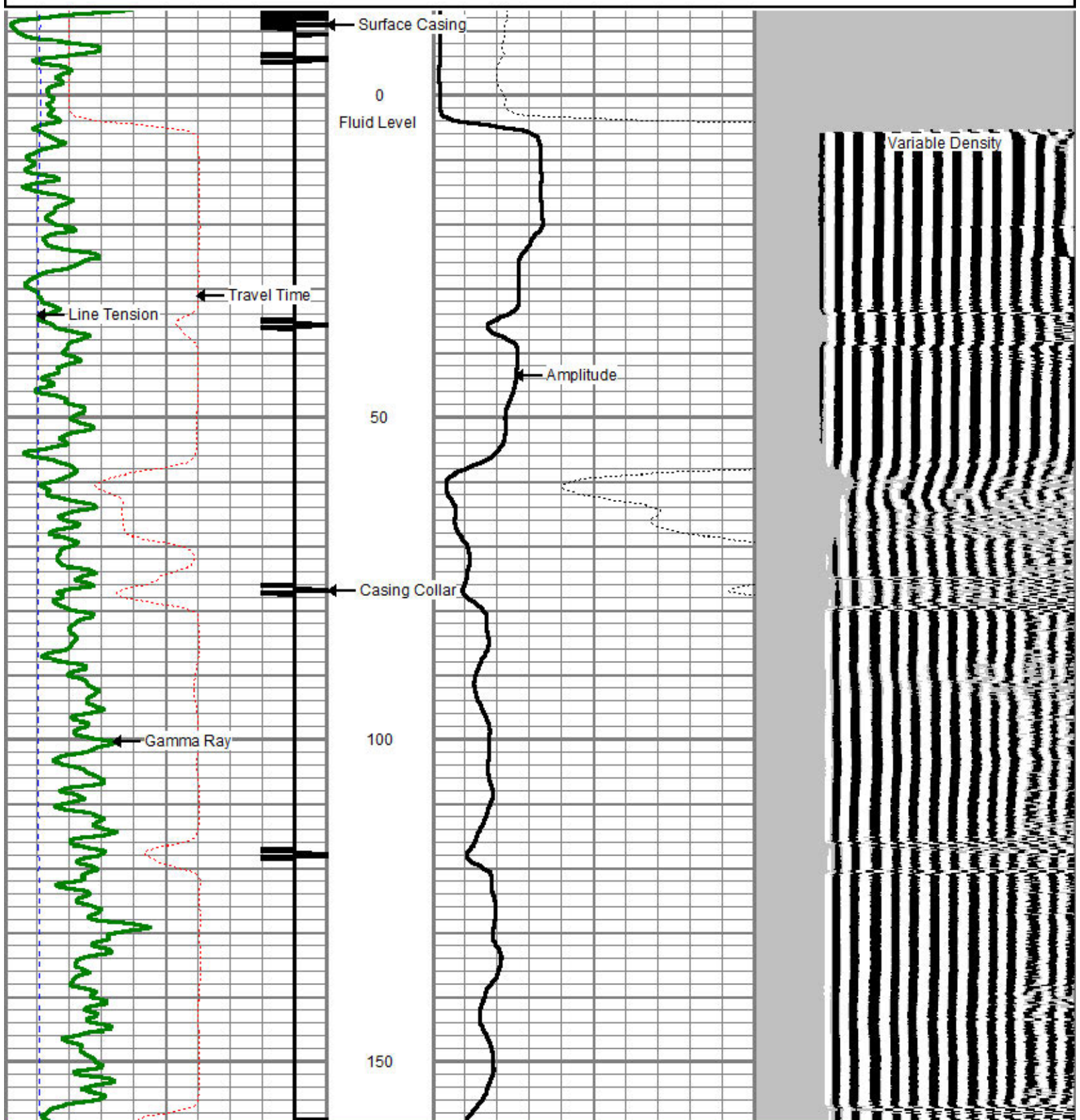
(303) 659-4609

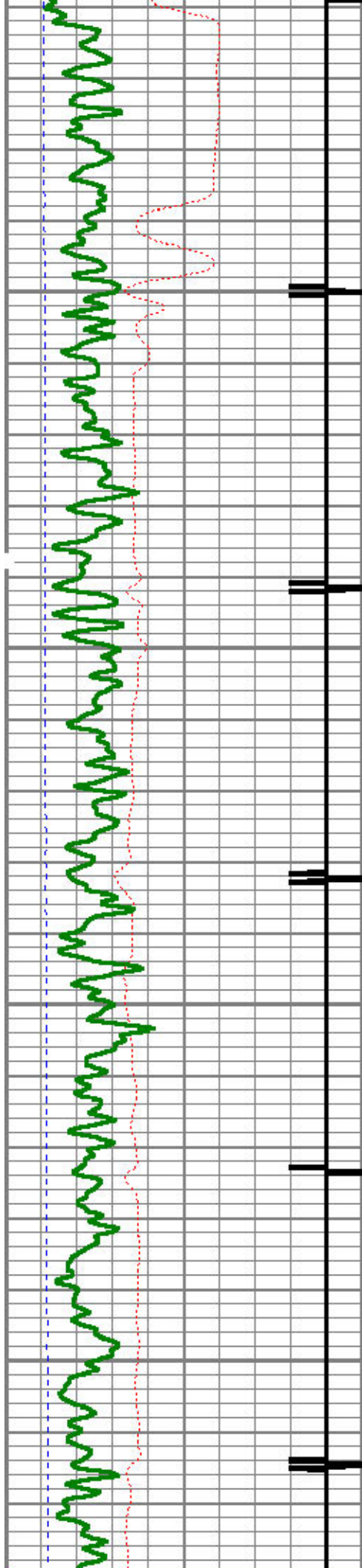


Main Pass (0 P.S.I.)

Database File: northplattee-a-24hnc.db
Dataset Pathname: pass19.4
Presentation Format: cblprobe
Dataset Creation: Sun Aug 17 13:11:02 2014 by Calc 0
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)	2000						



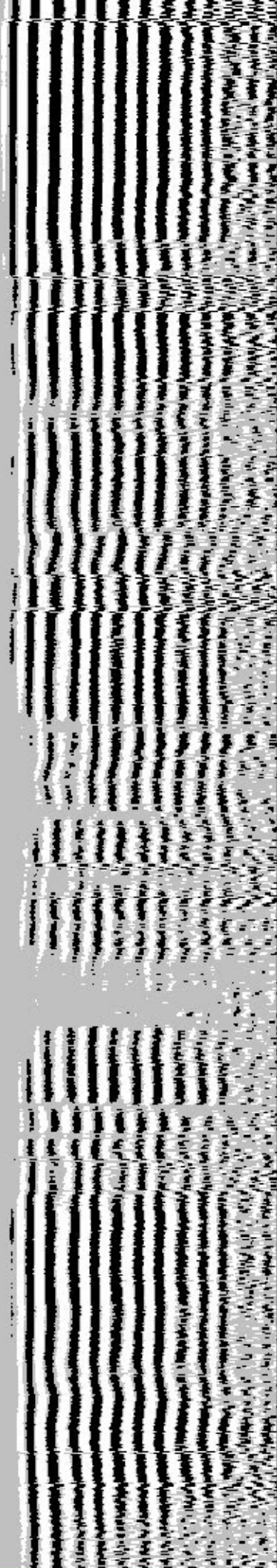
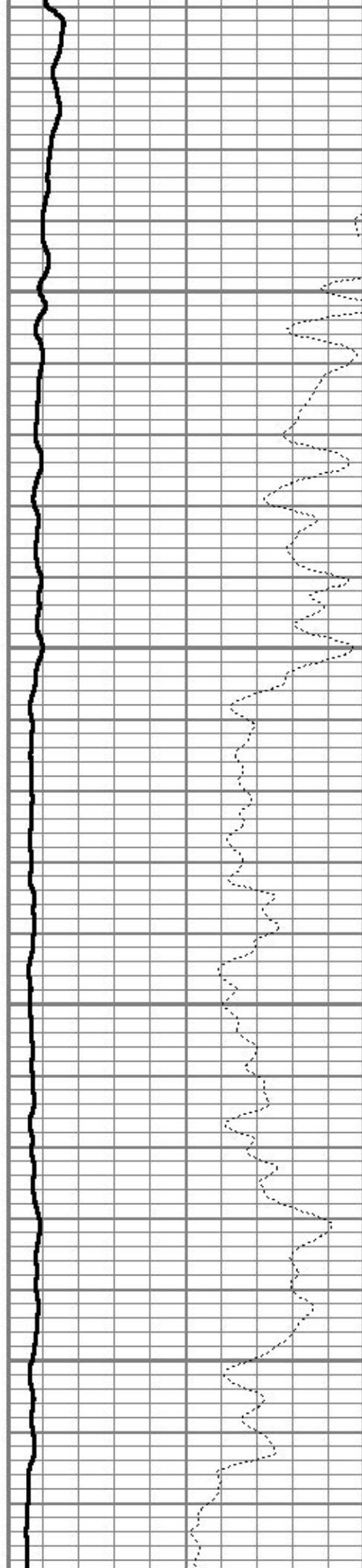


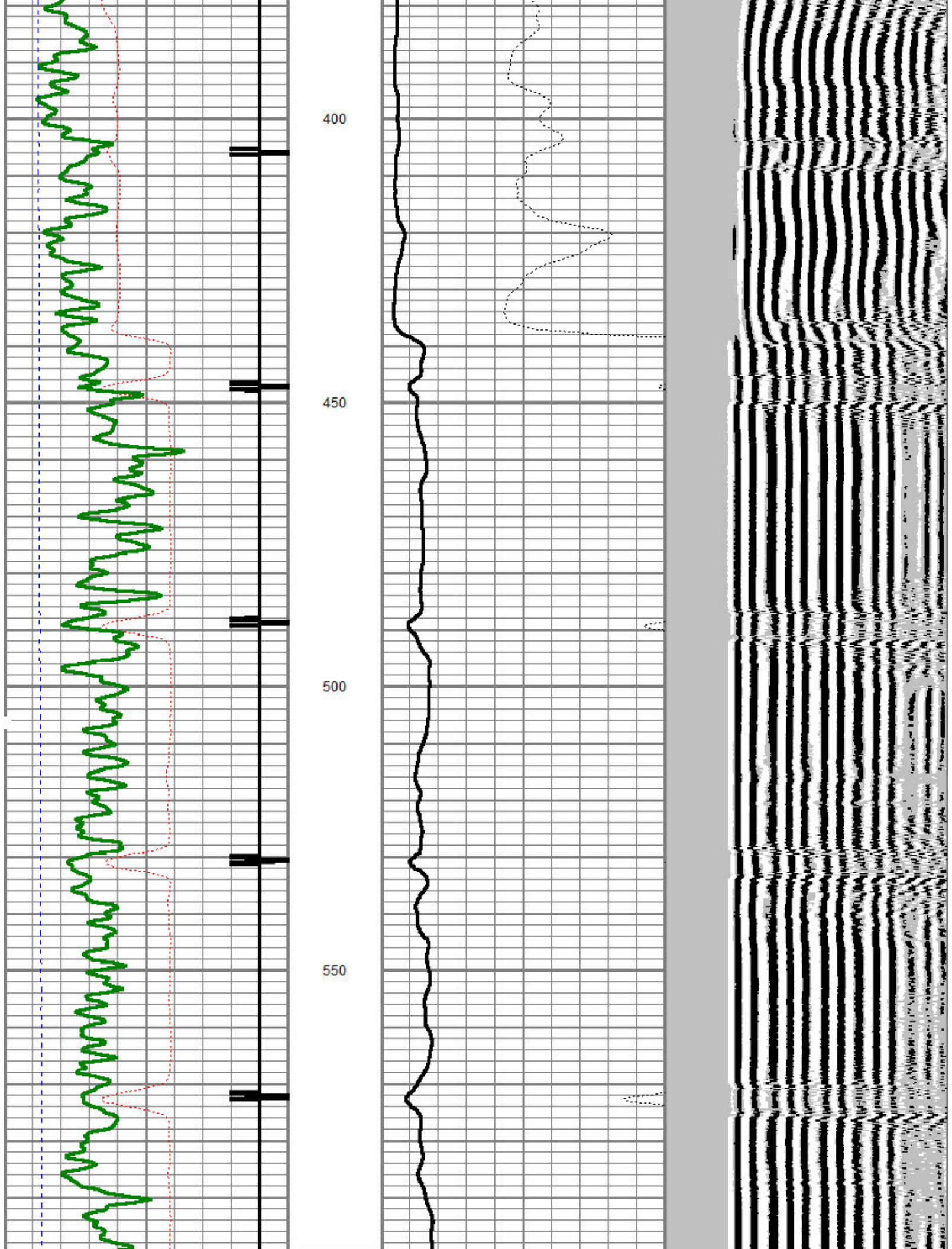
200

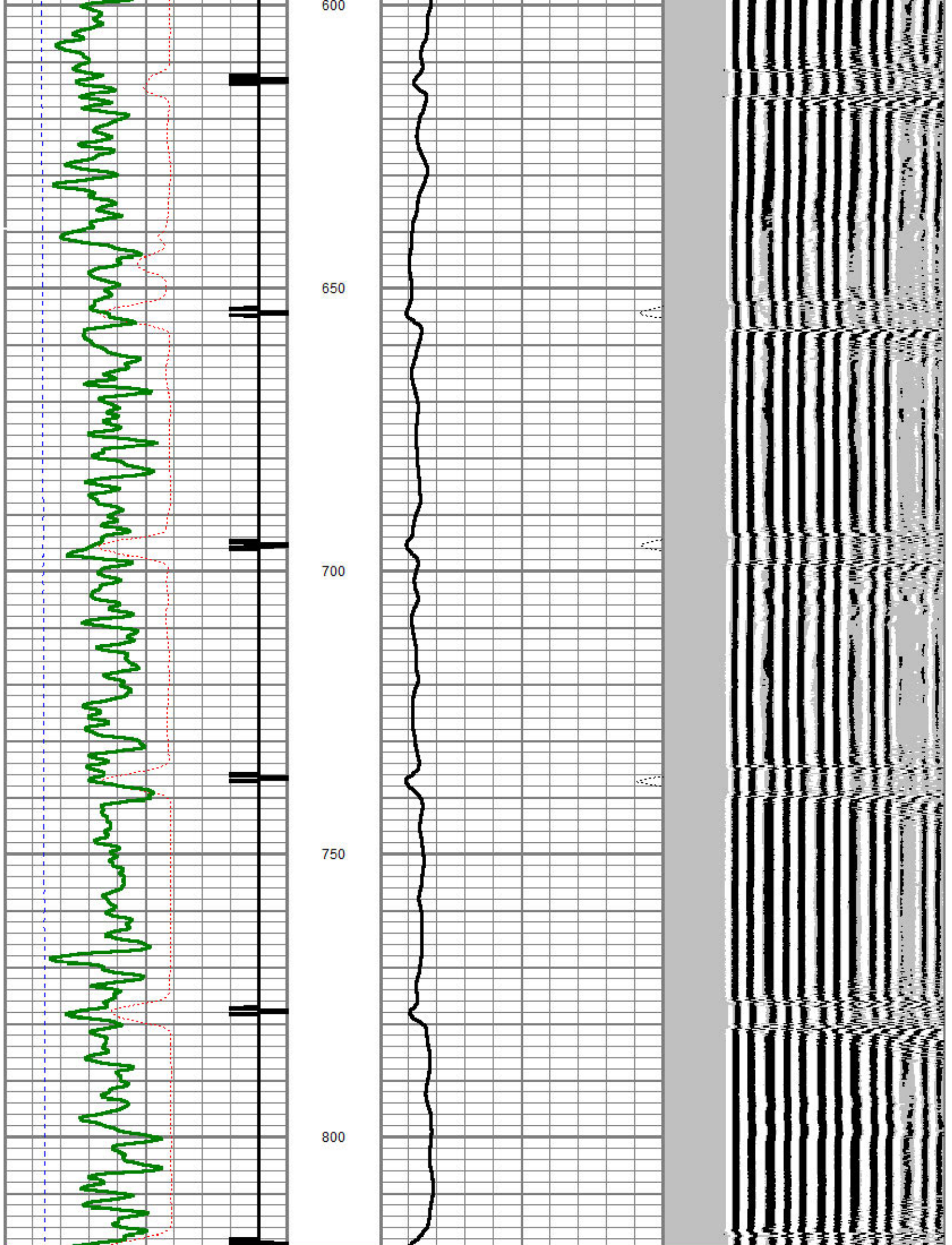
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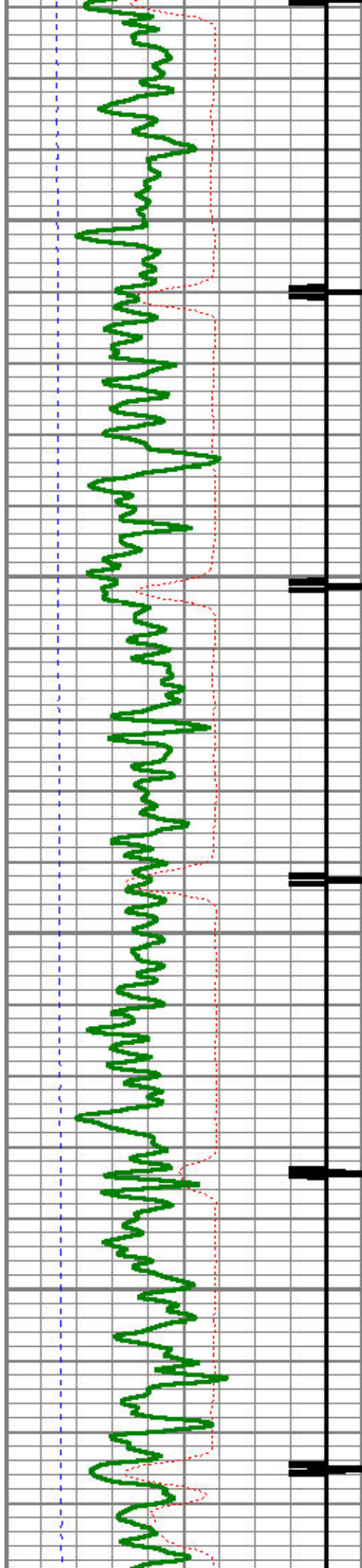
300

350







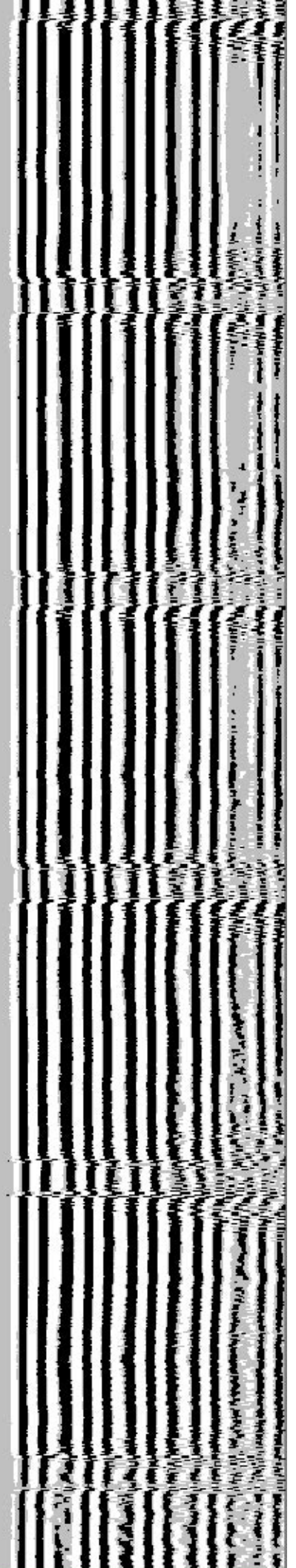
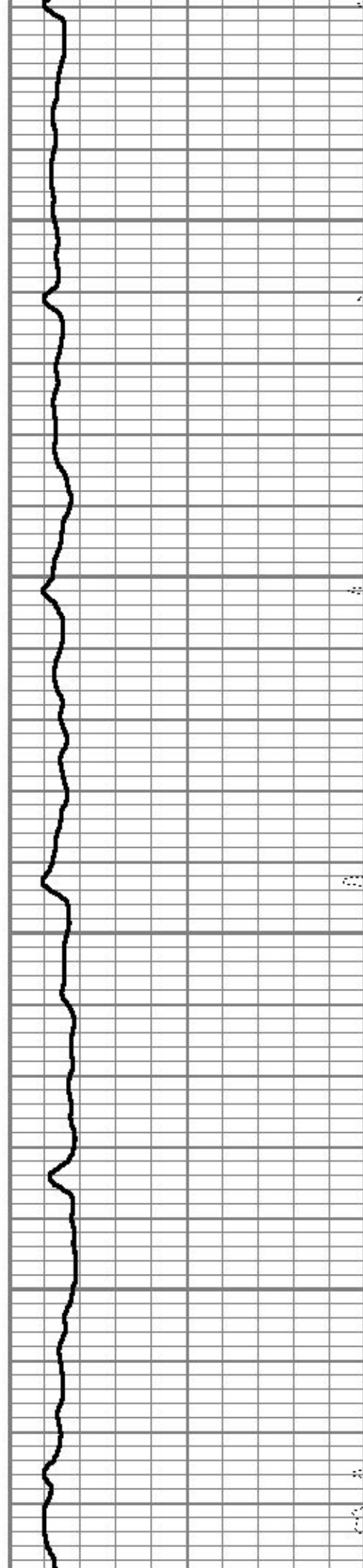


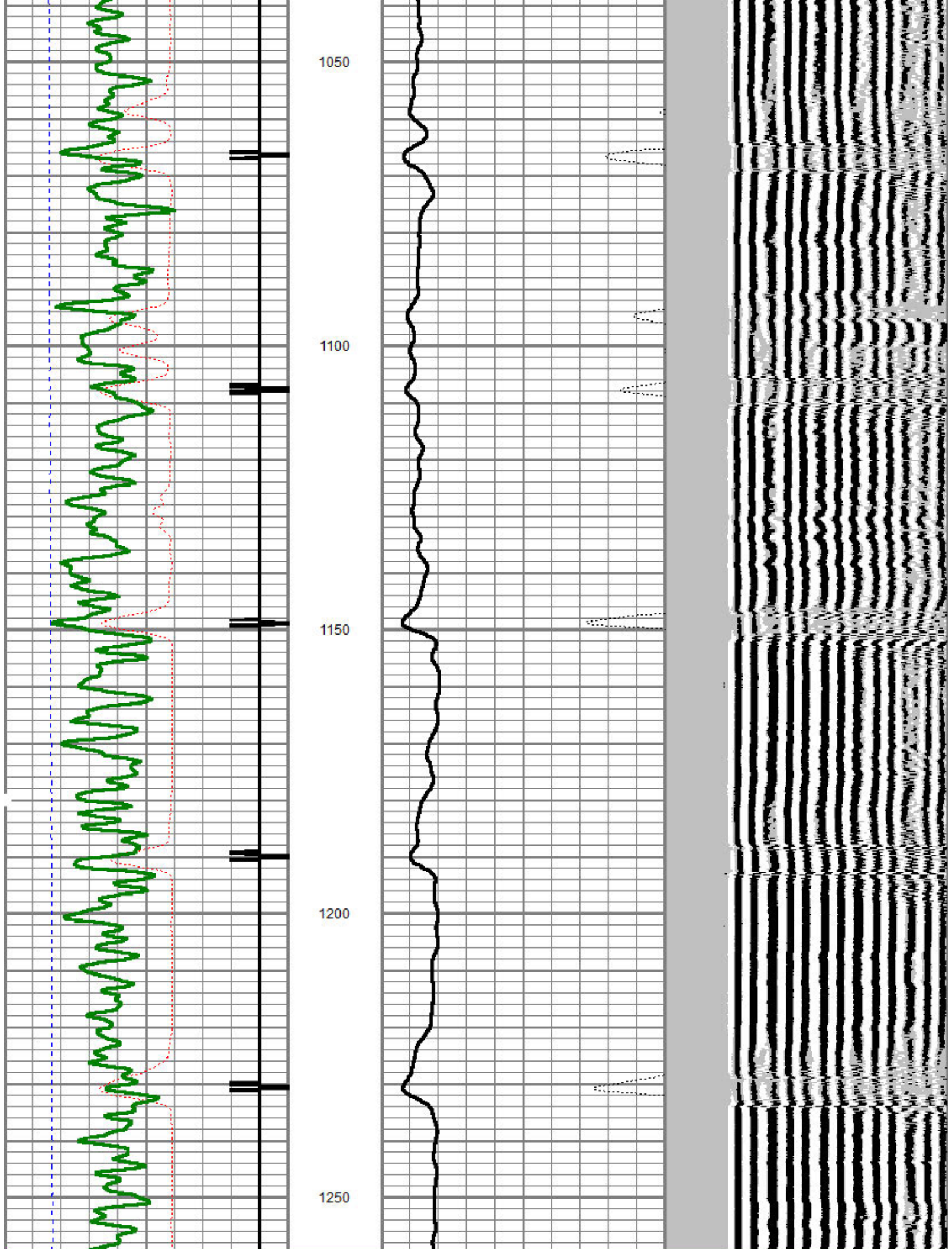
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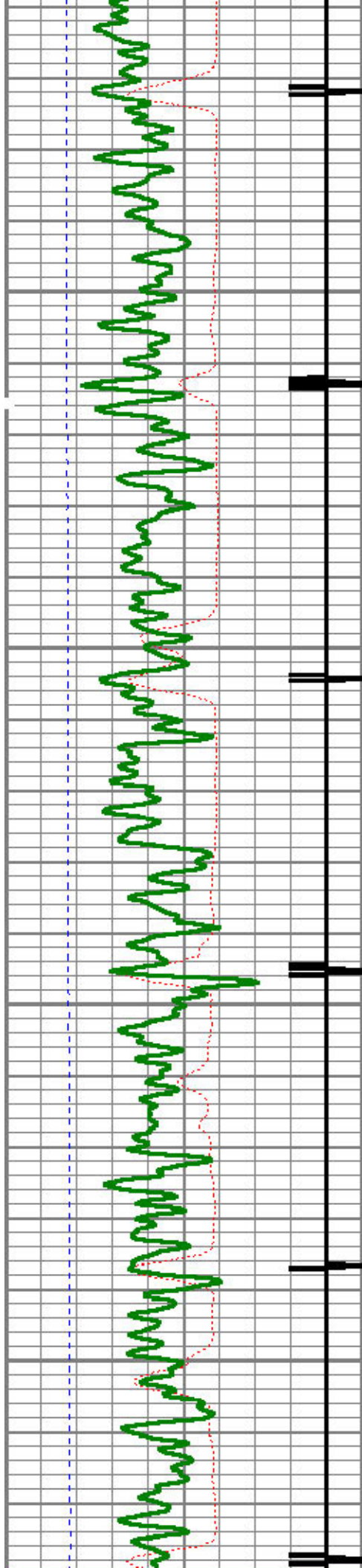
900

950

1000





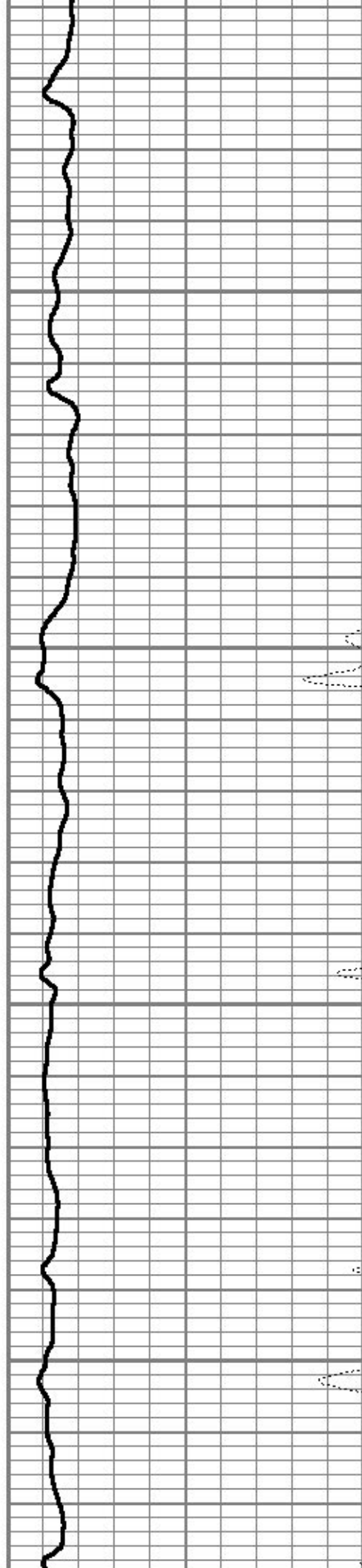


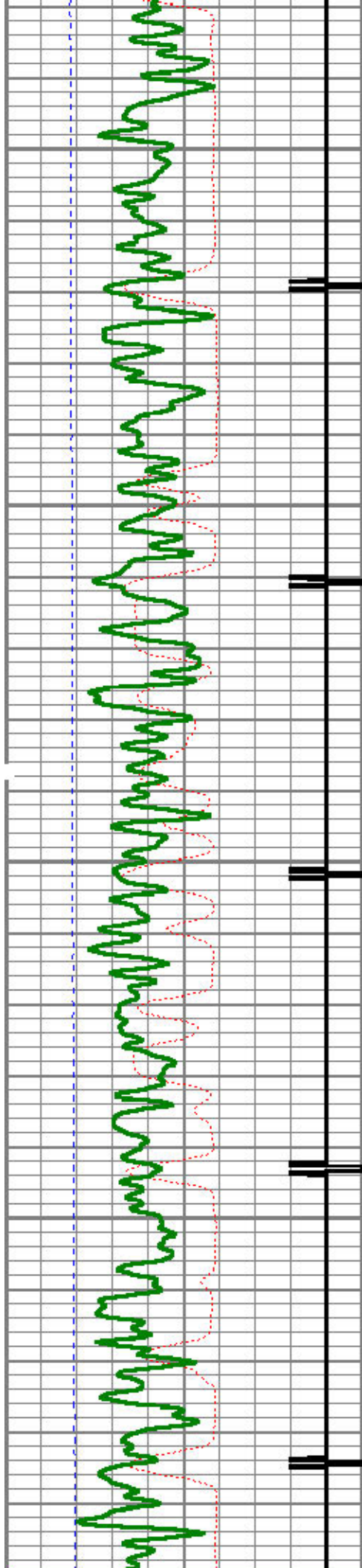
1300

1350

1400

1450



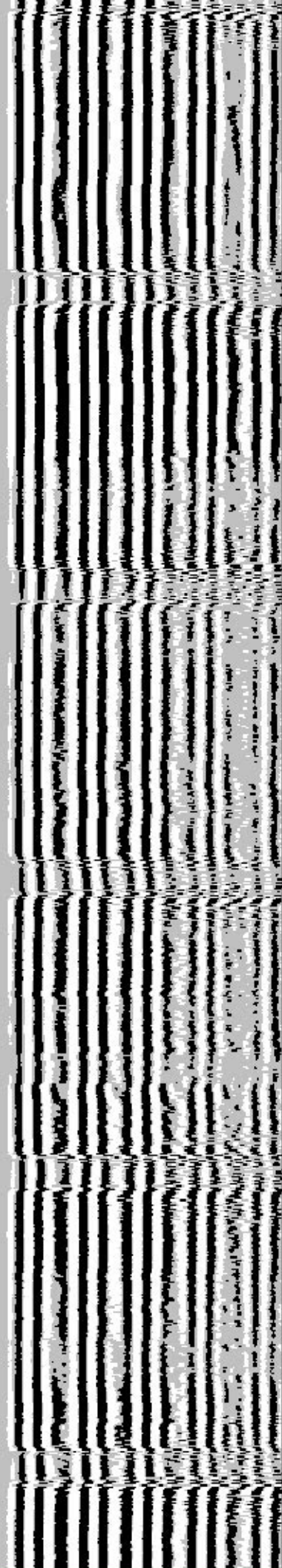
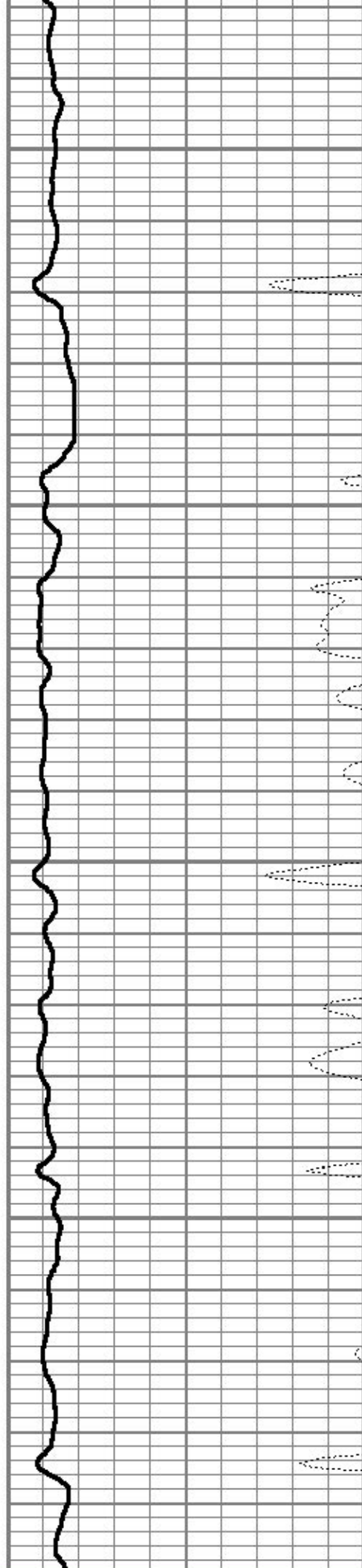


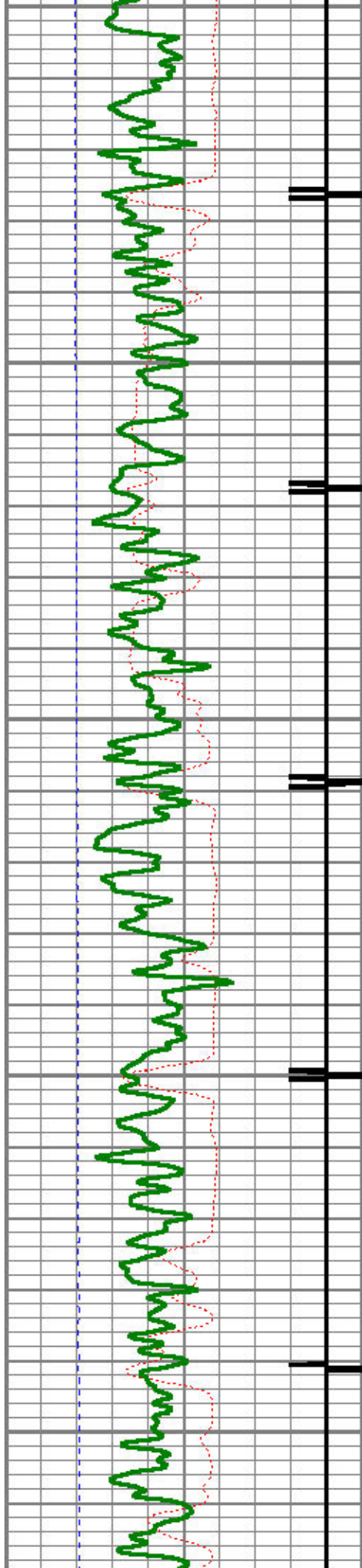
1500

1550

1600

1650





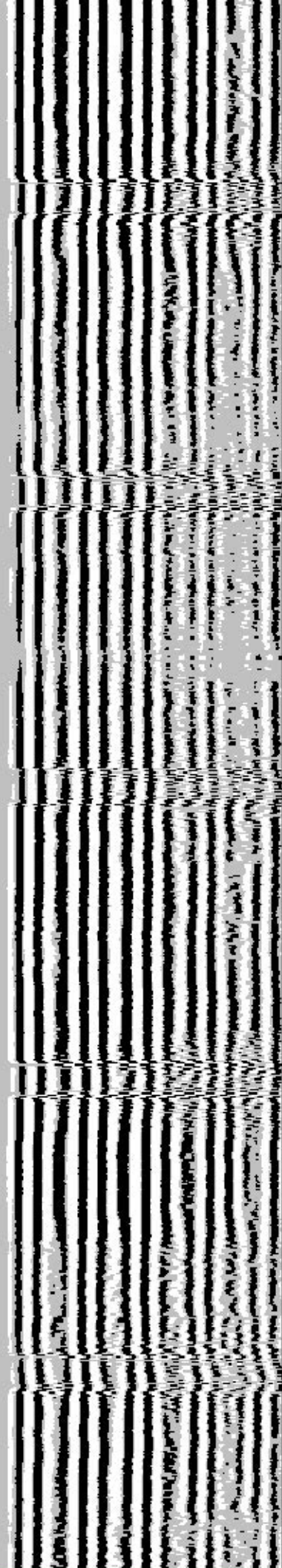
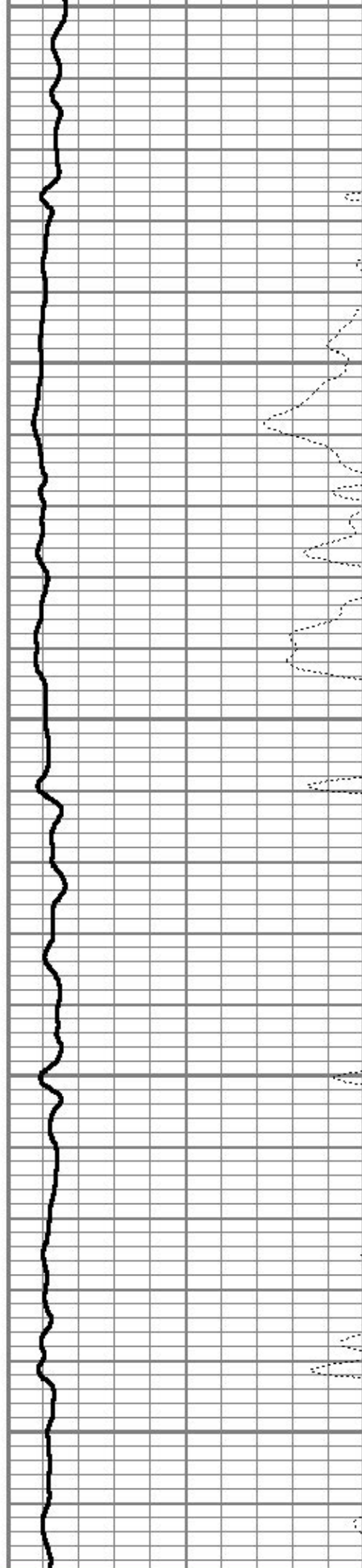
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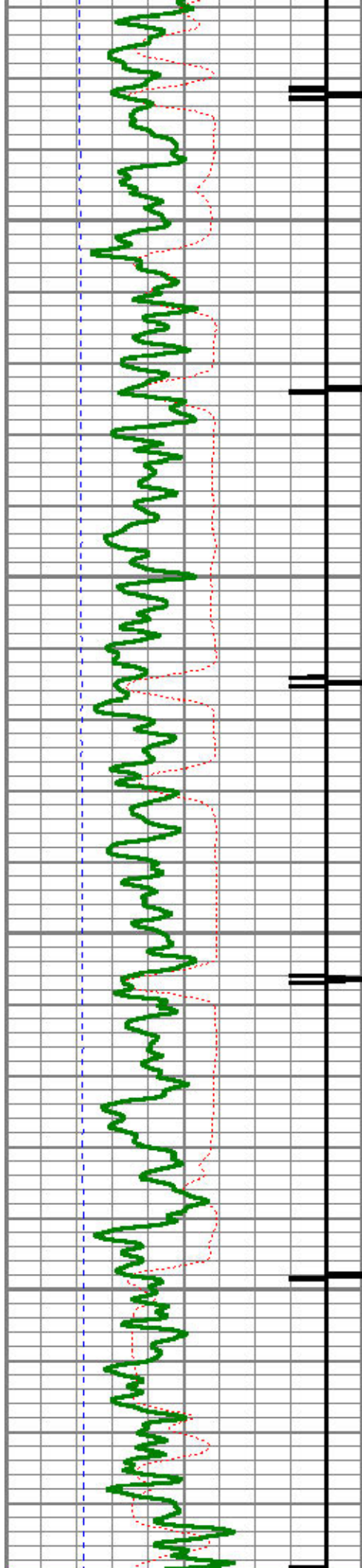
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1800

1850

1900



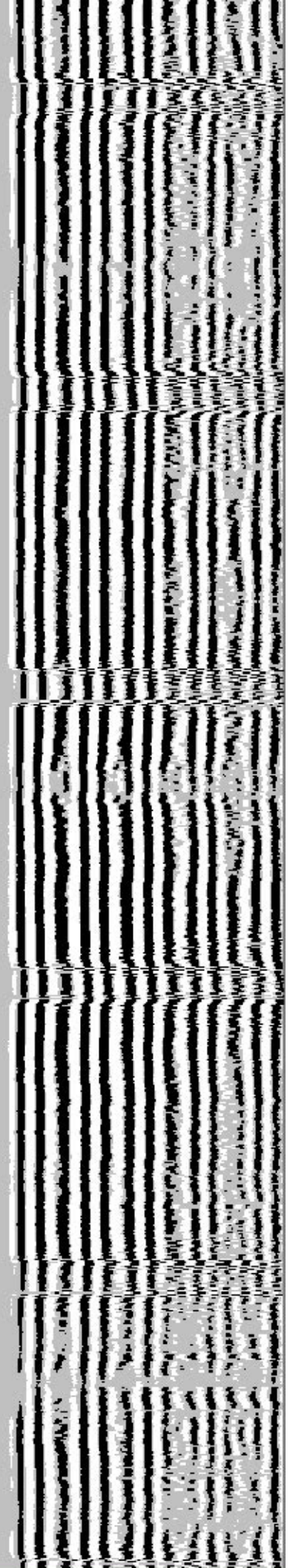
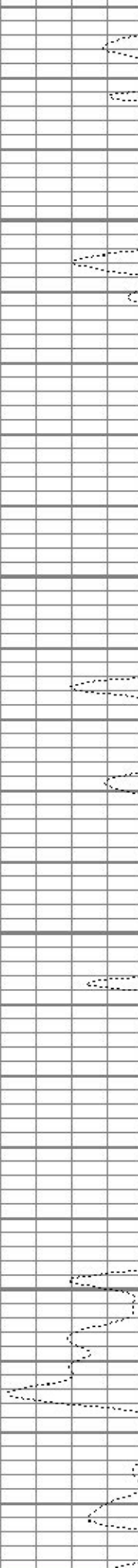


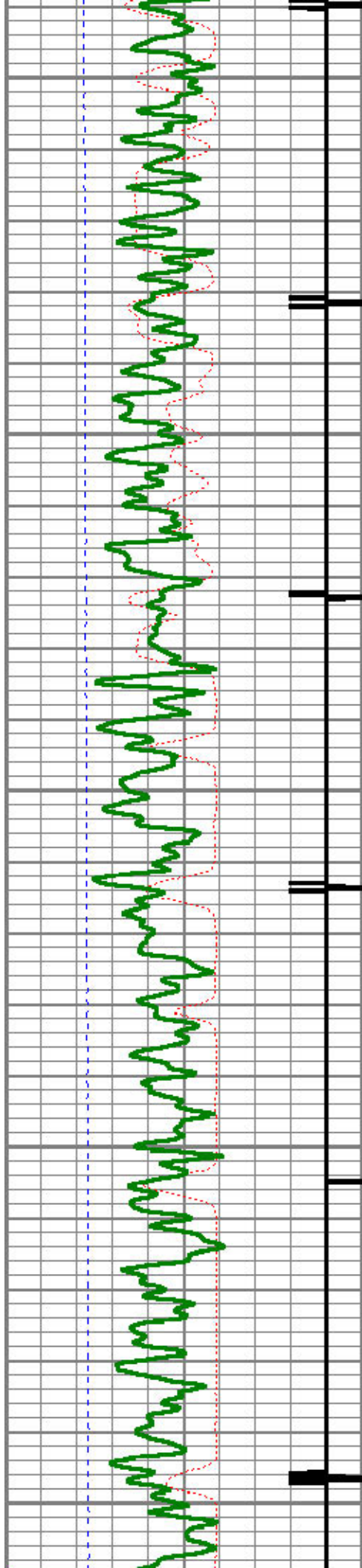
1950

2000

2050

2100





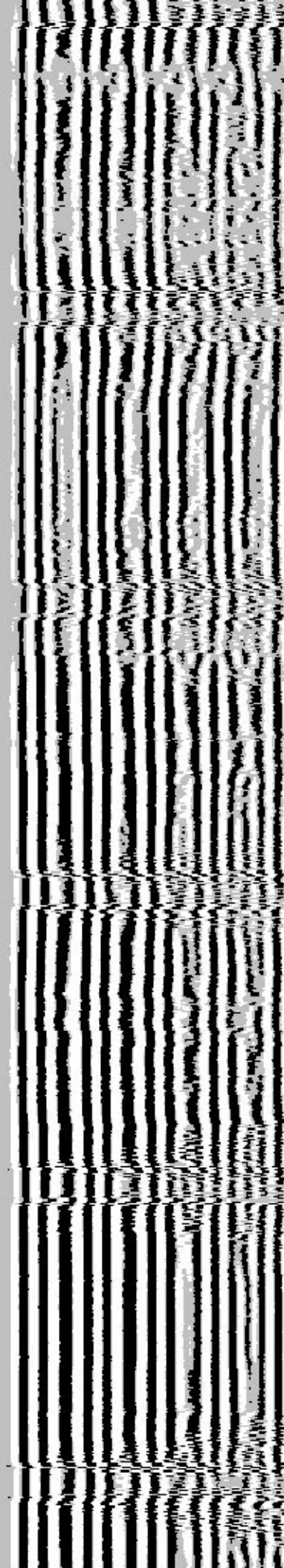
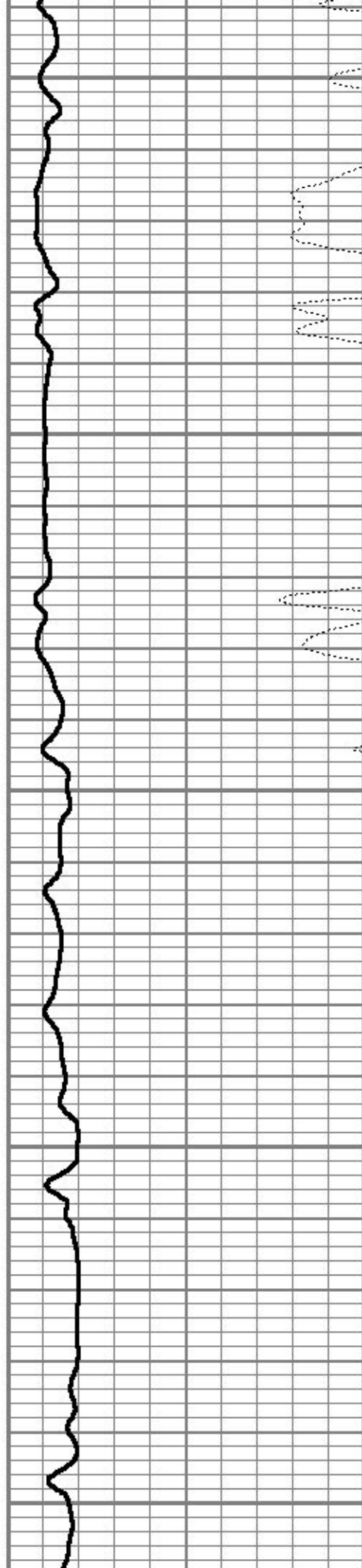
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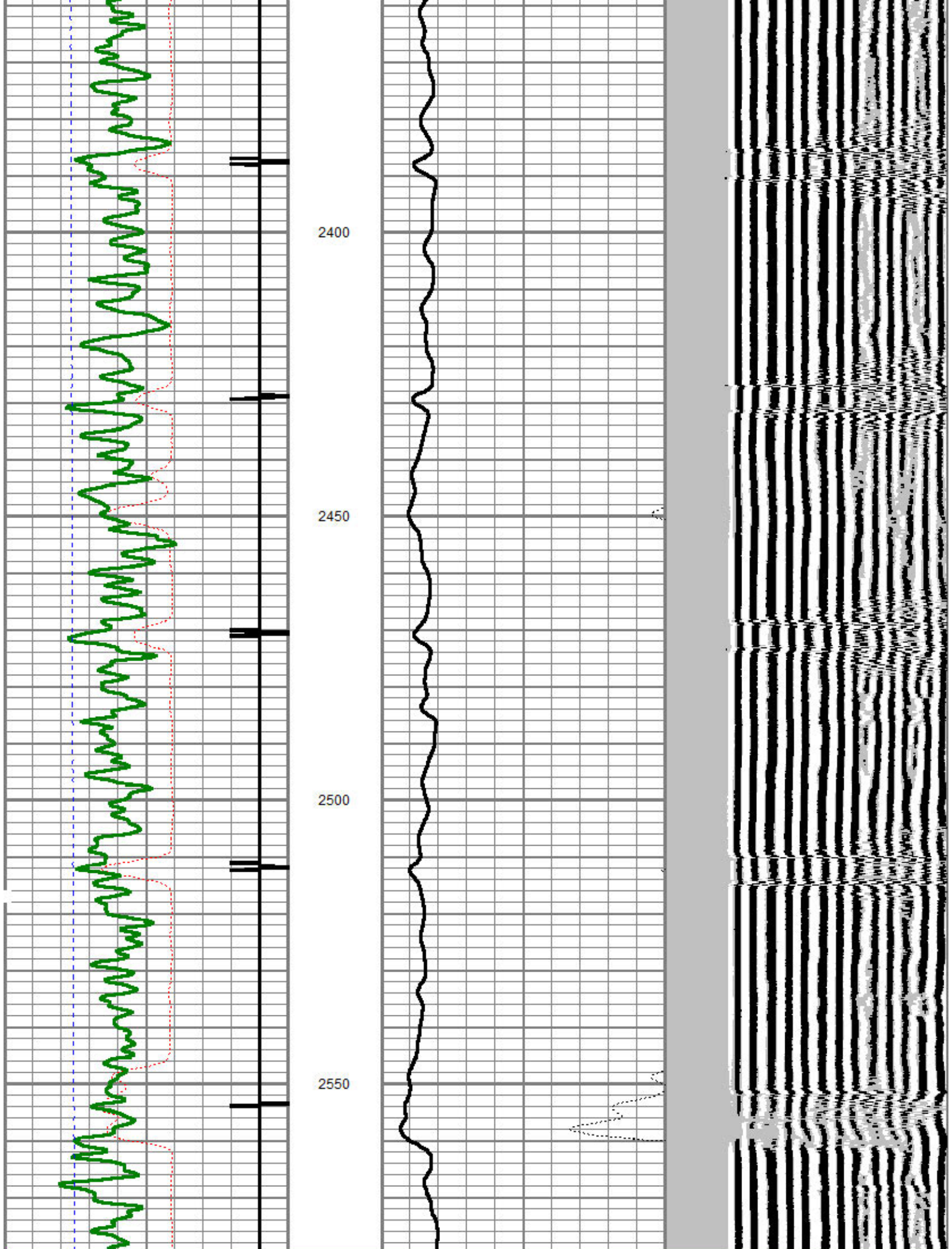
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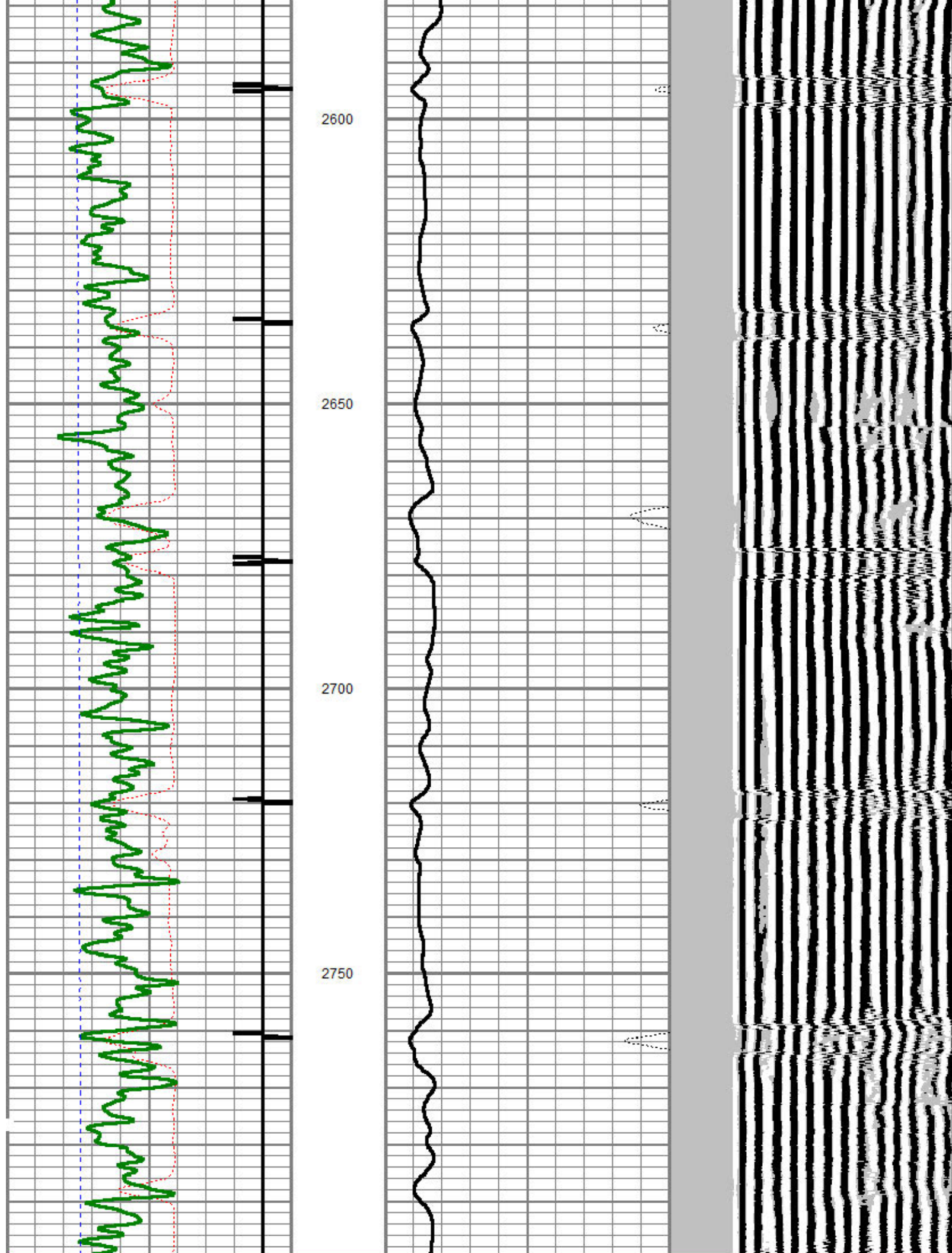
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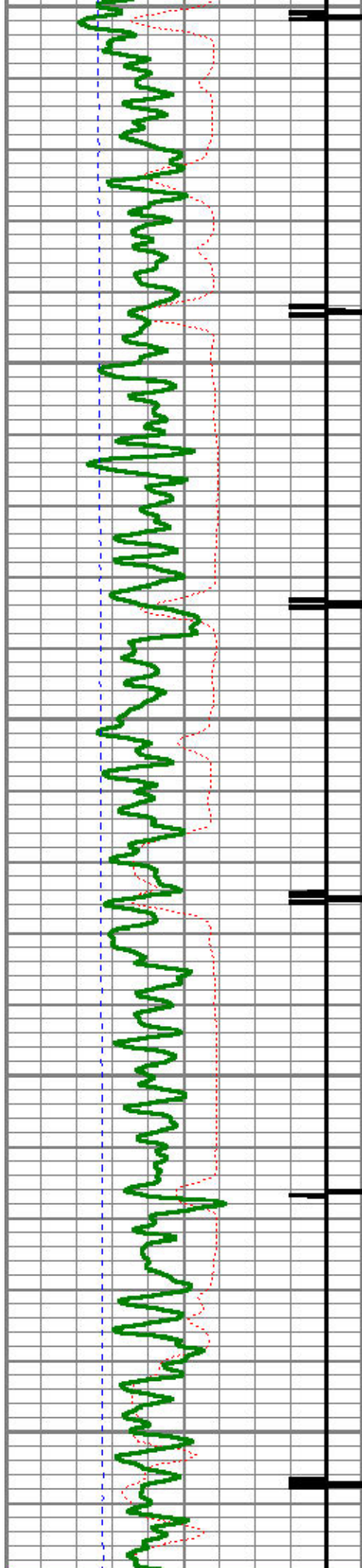
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2350









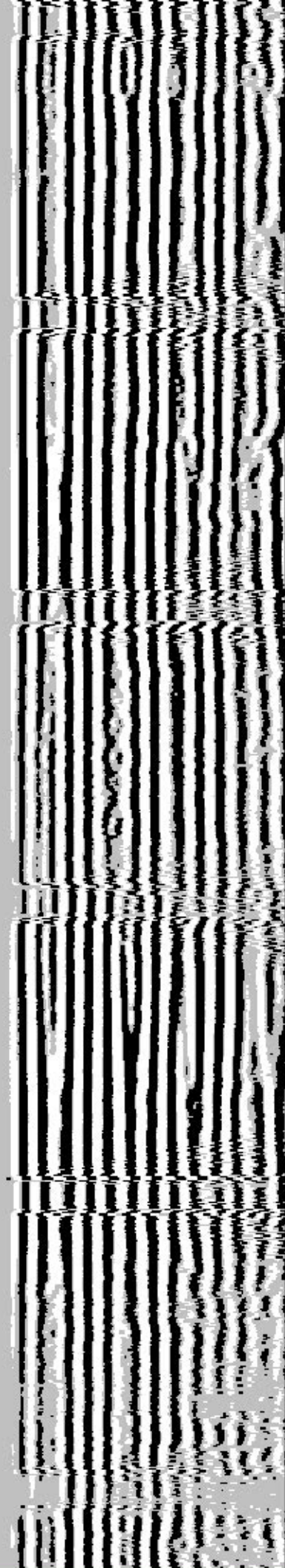
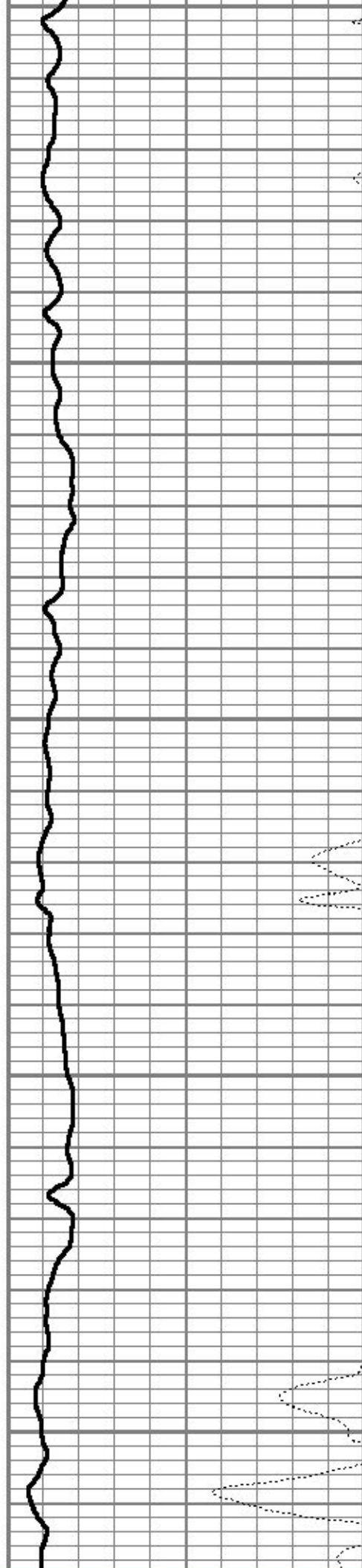
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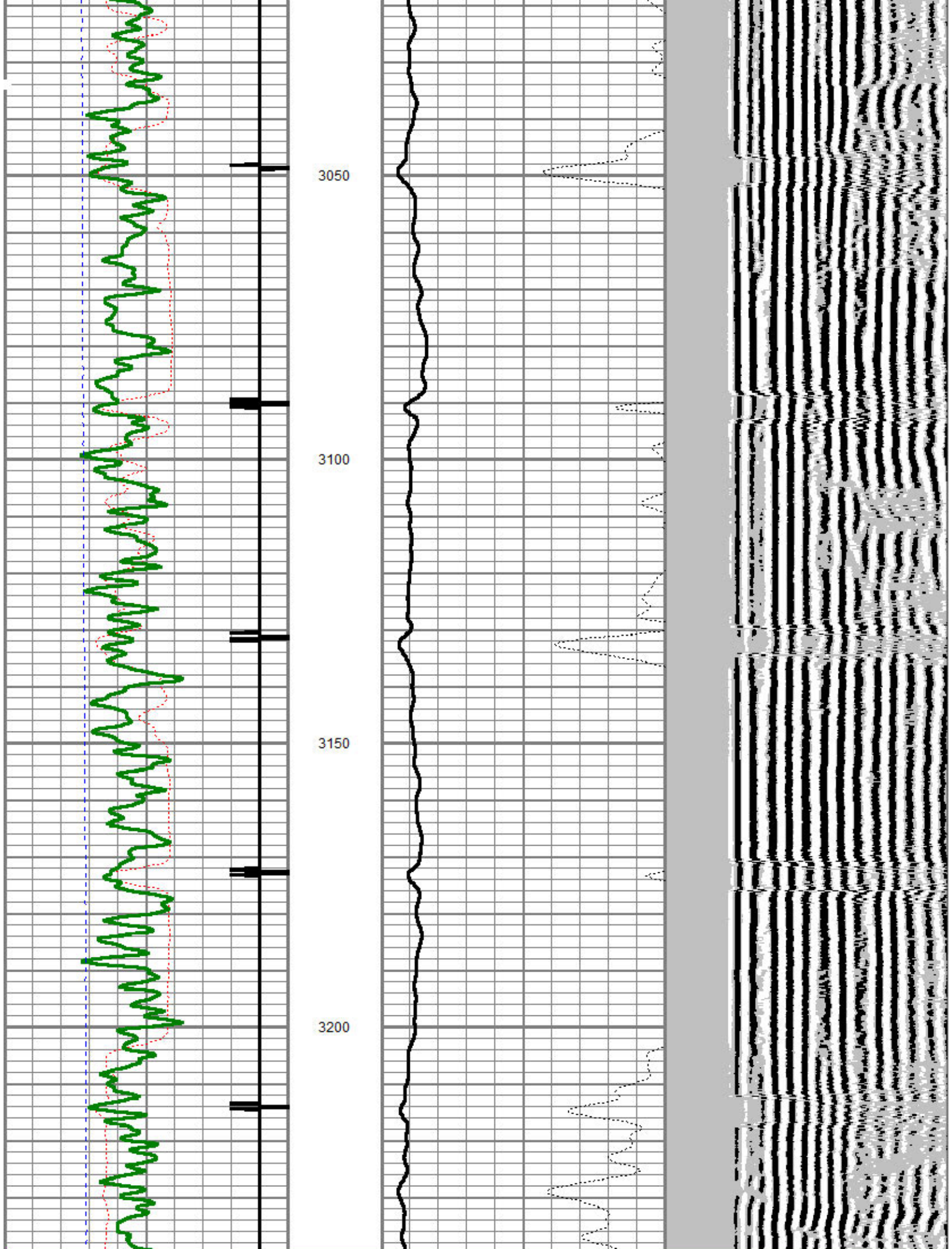
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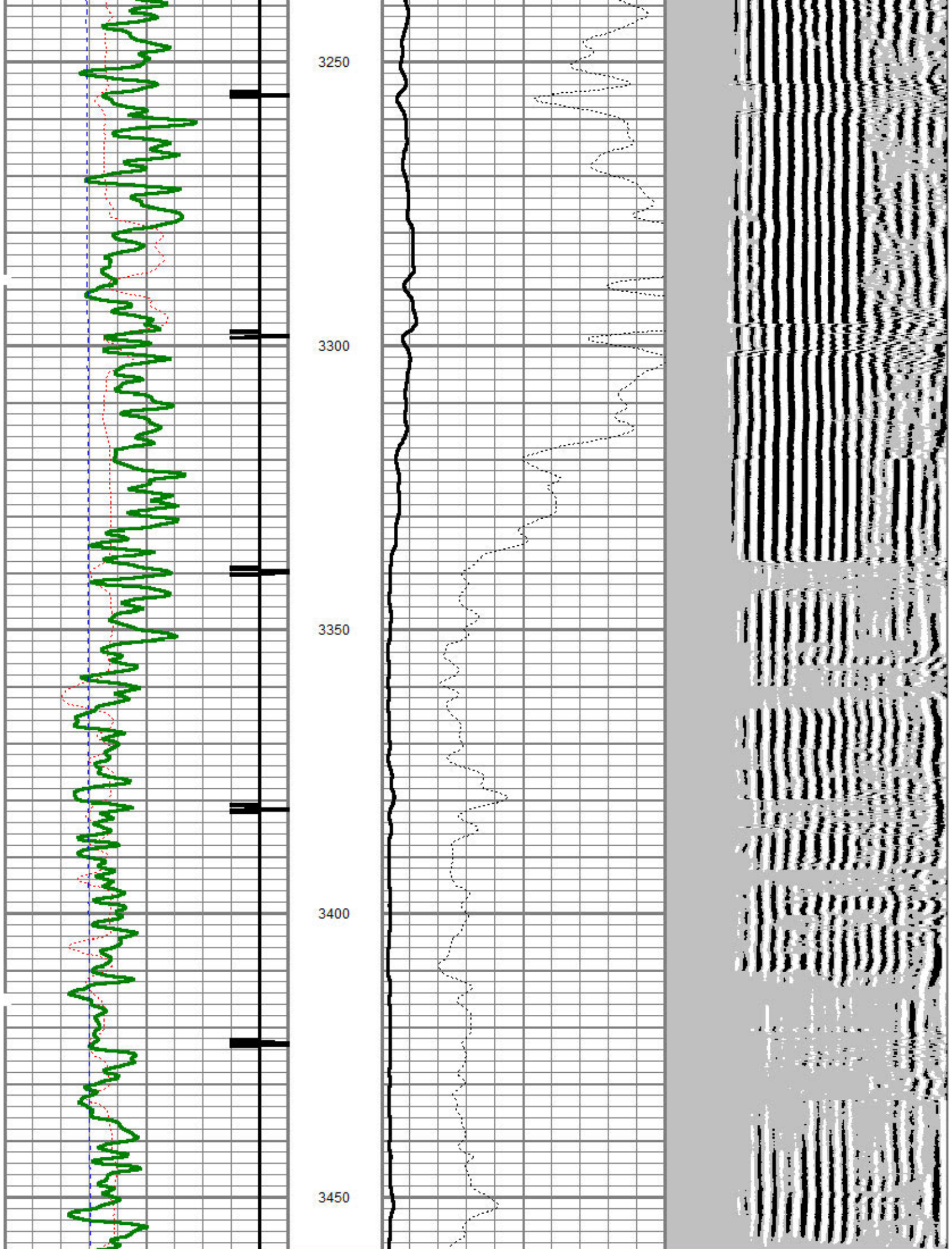
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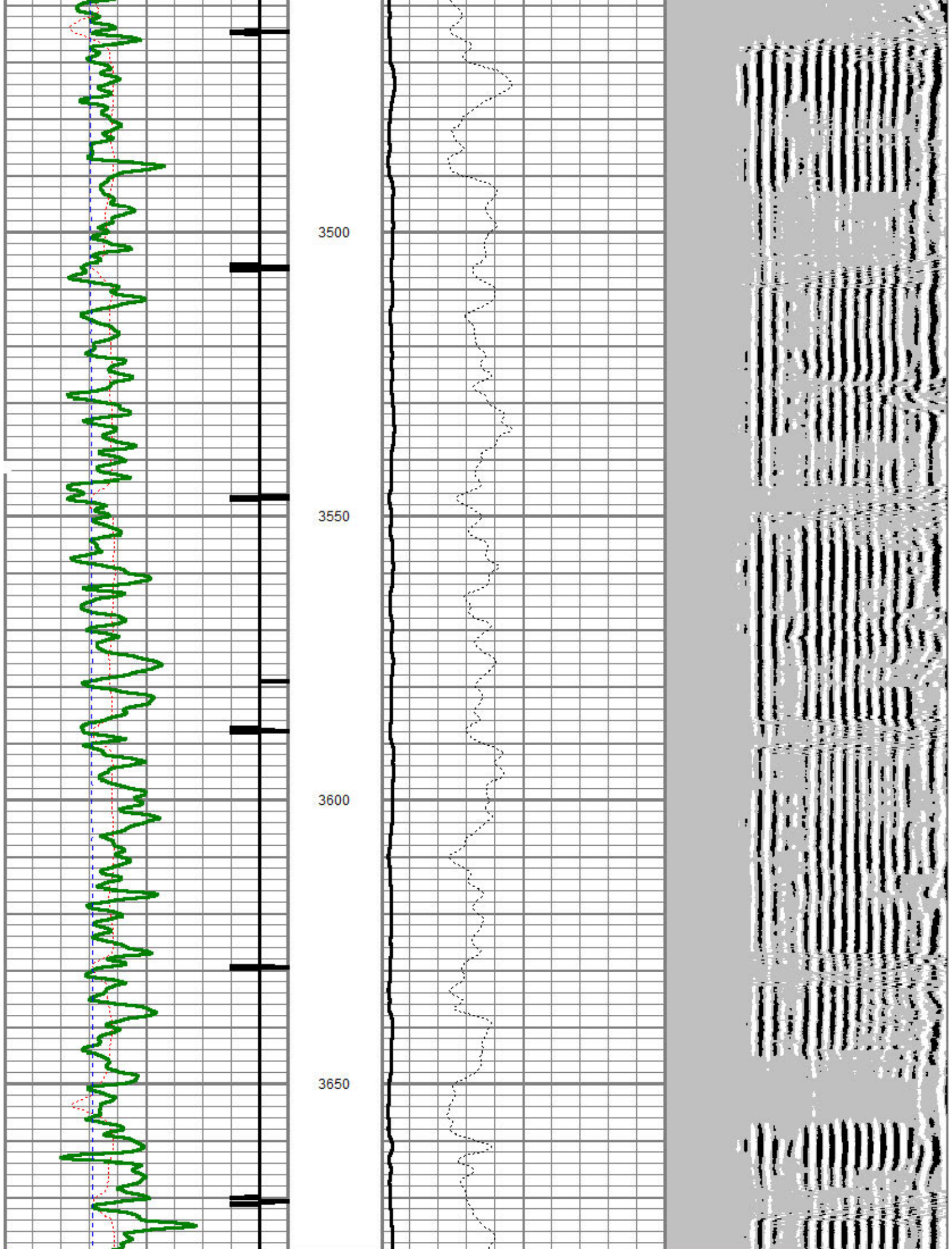
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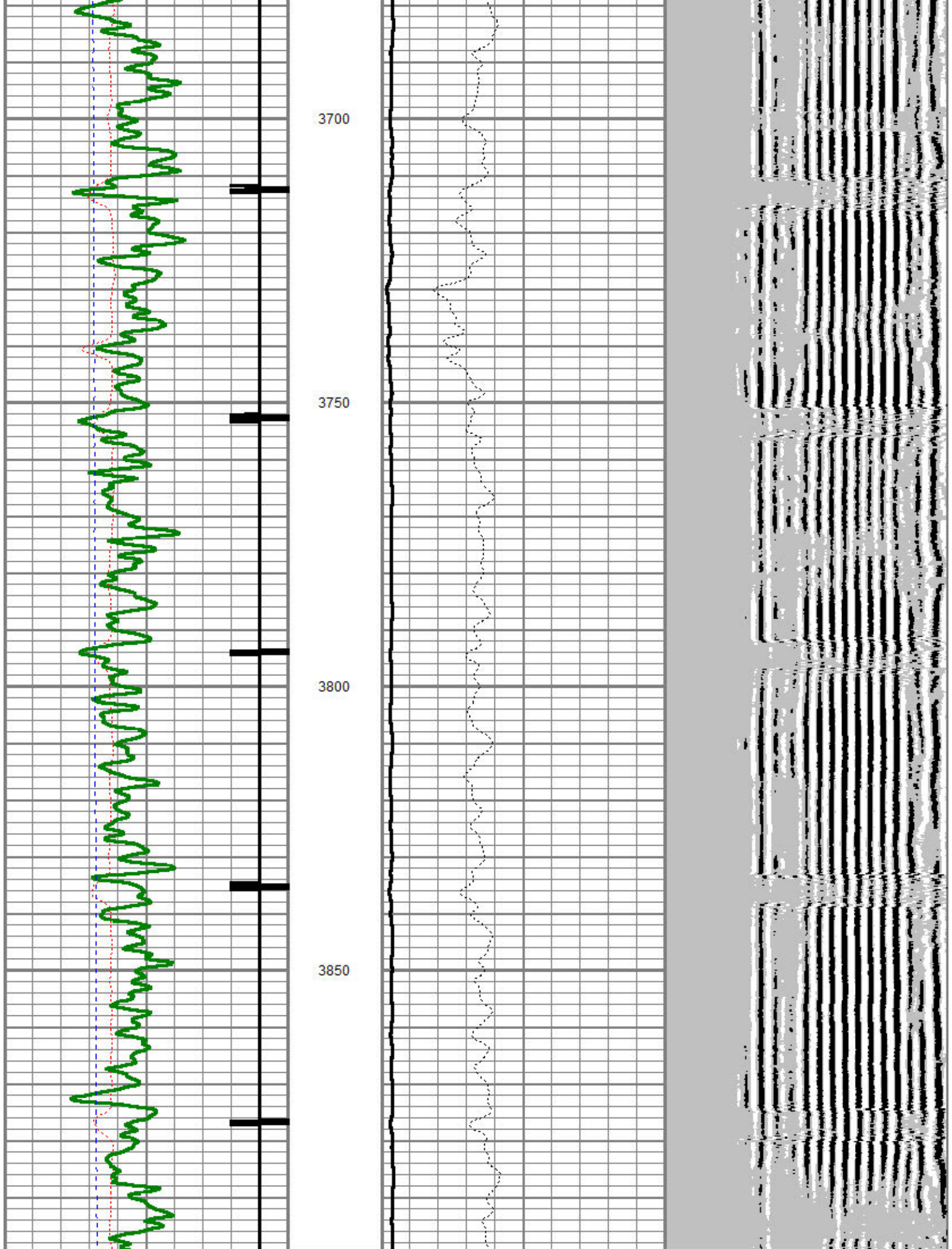
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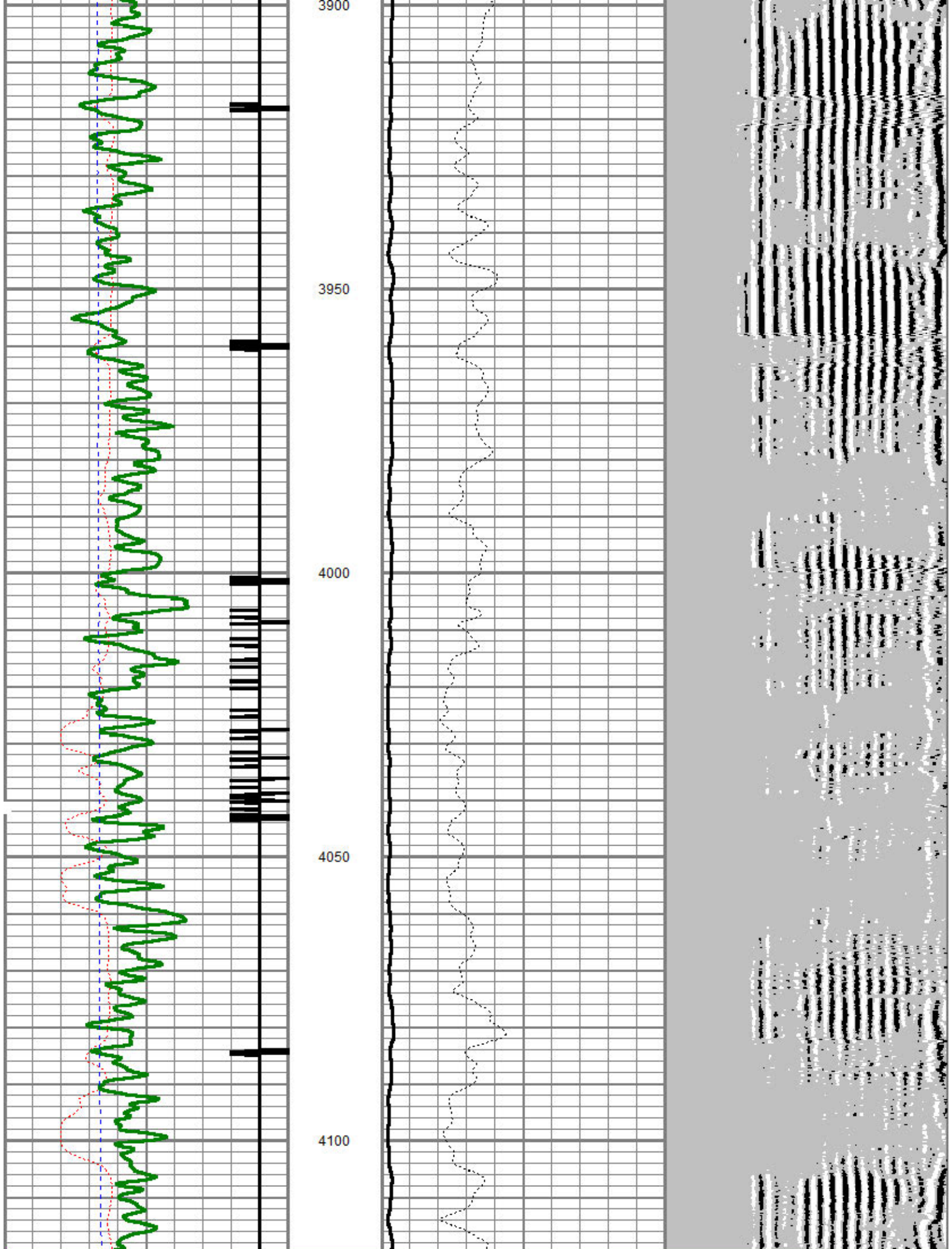


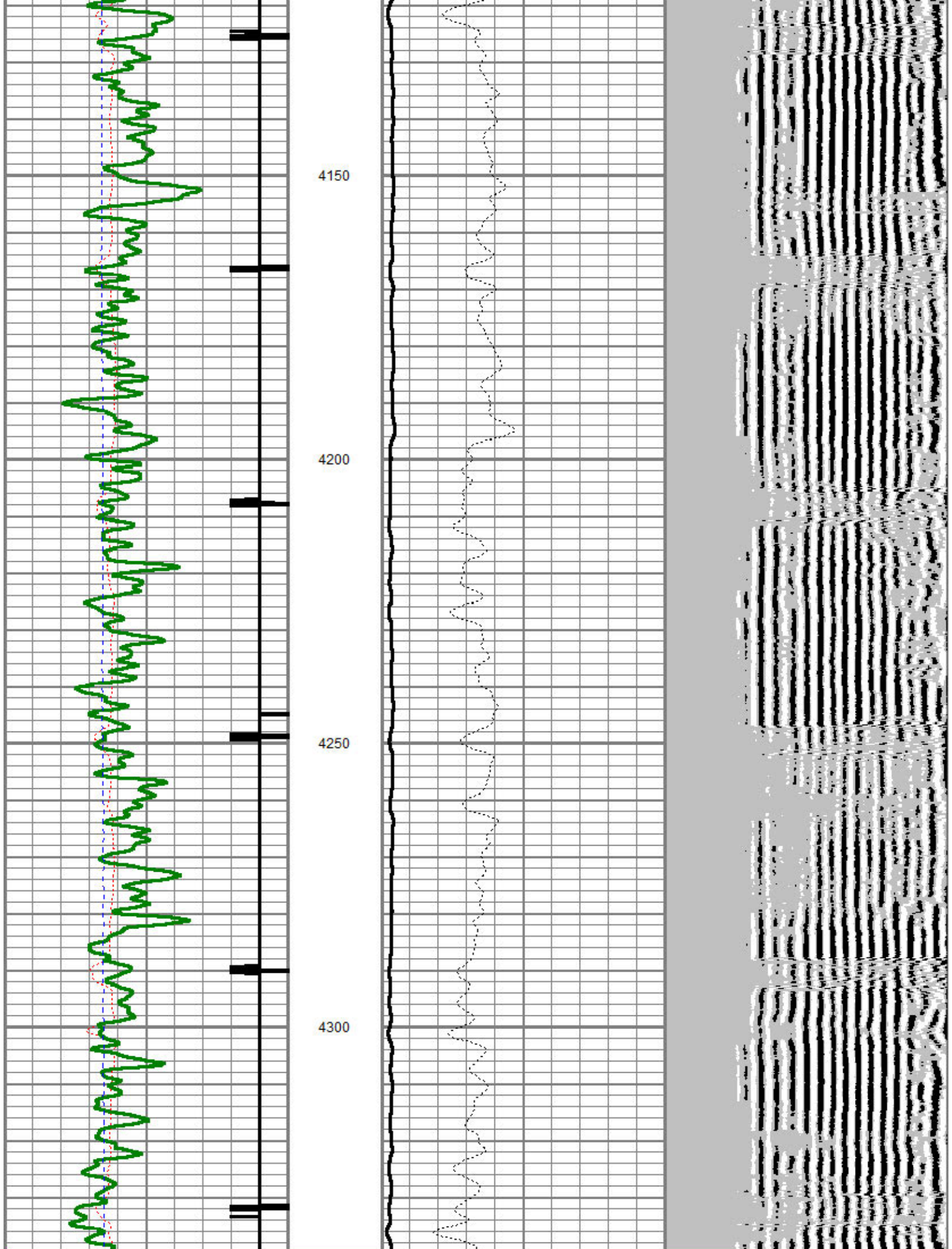


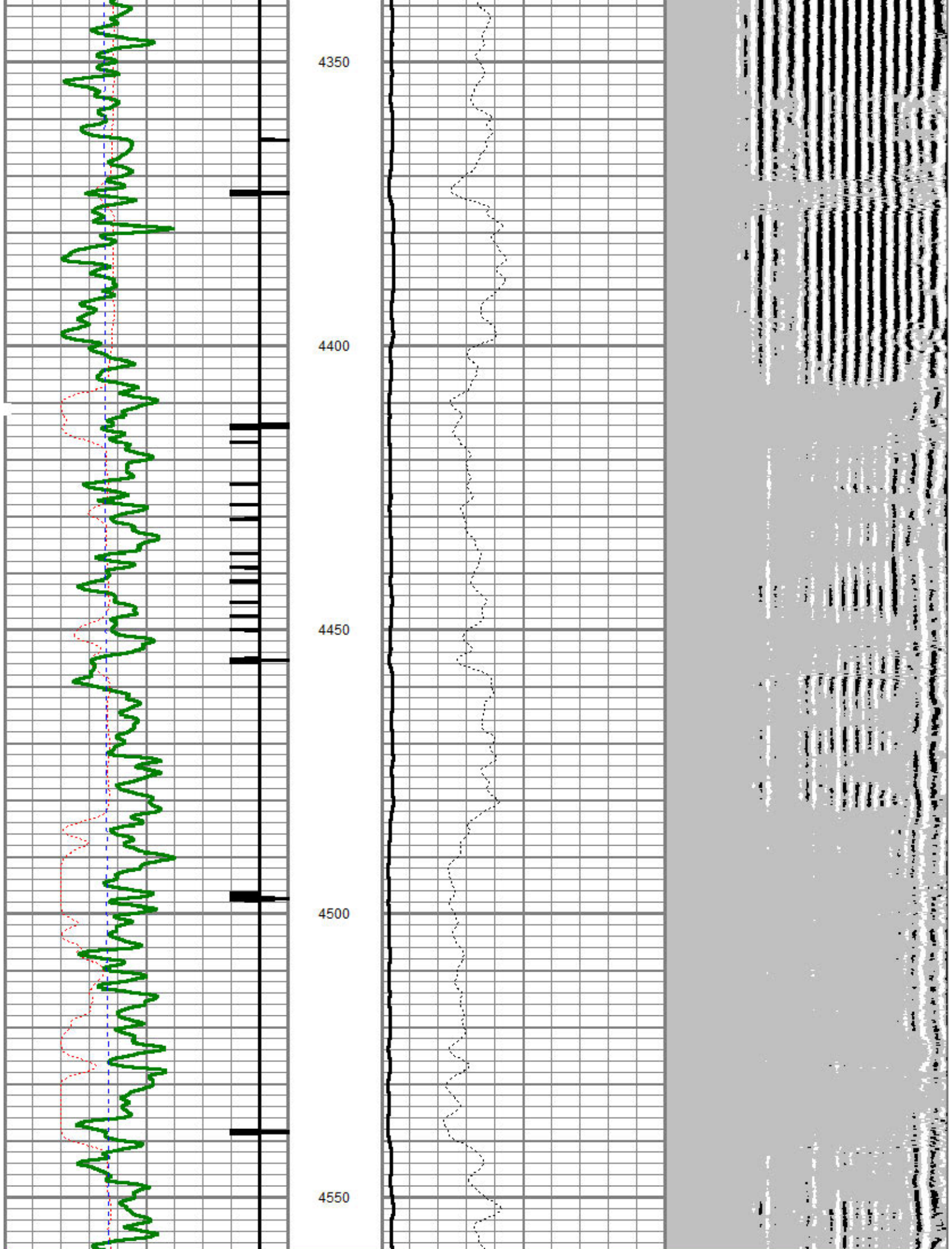


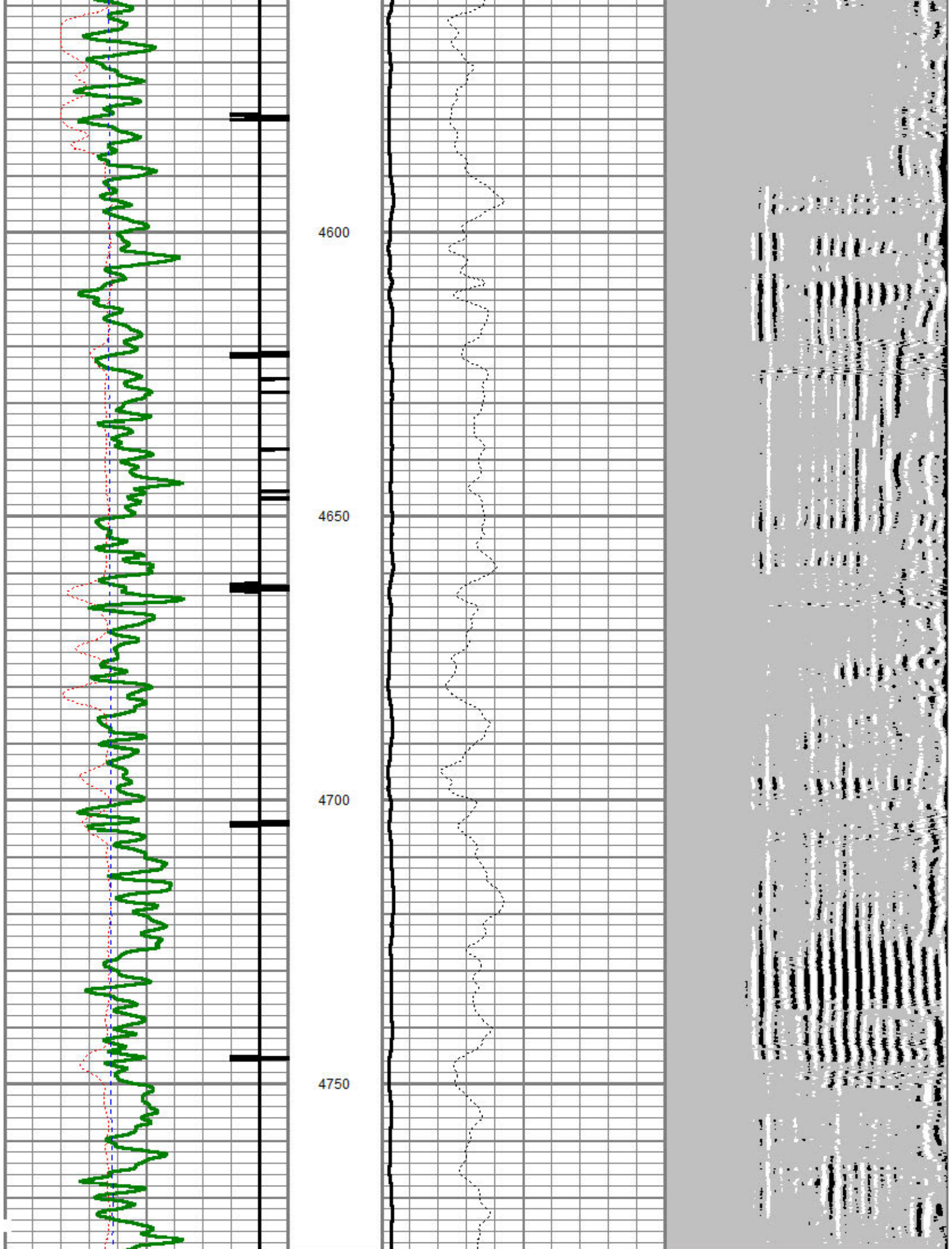


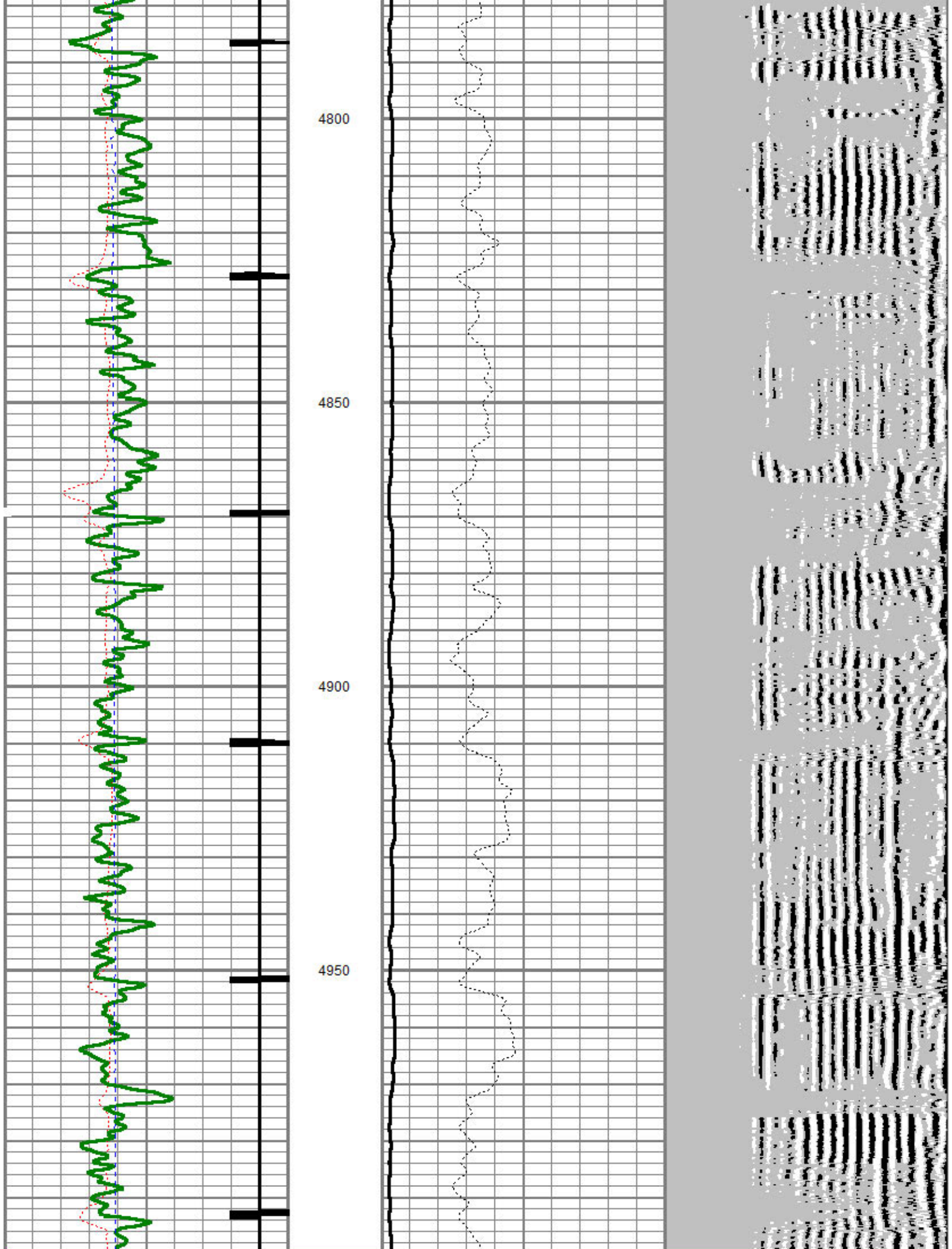


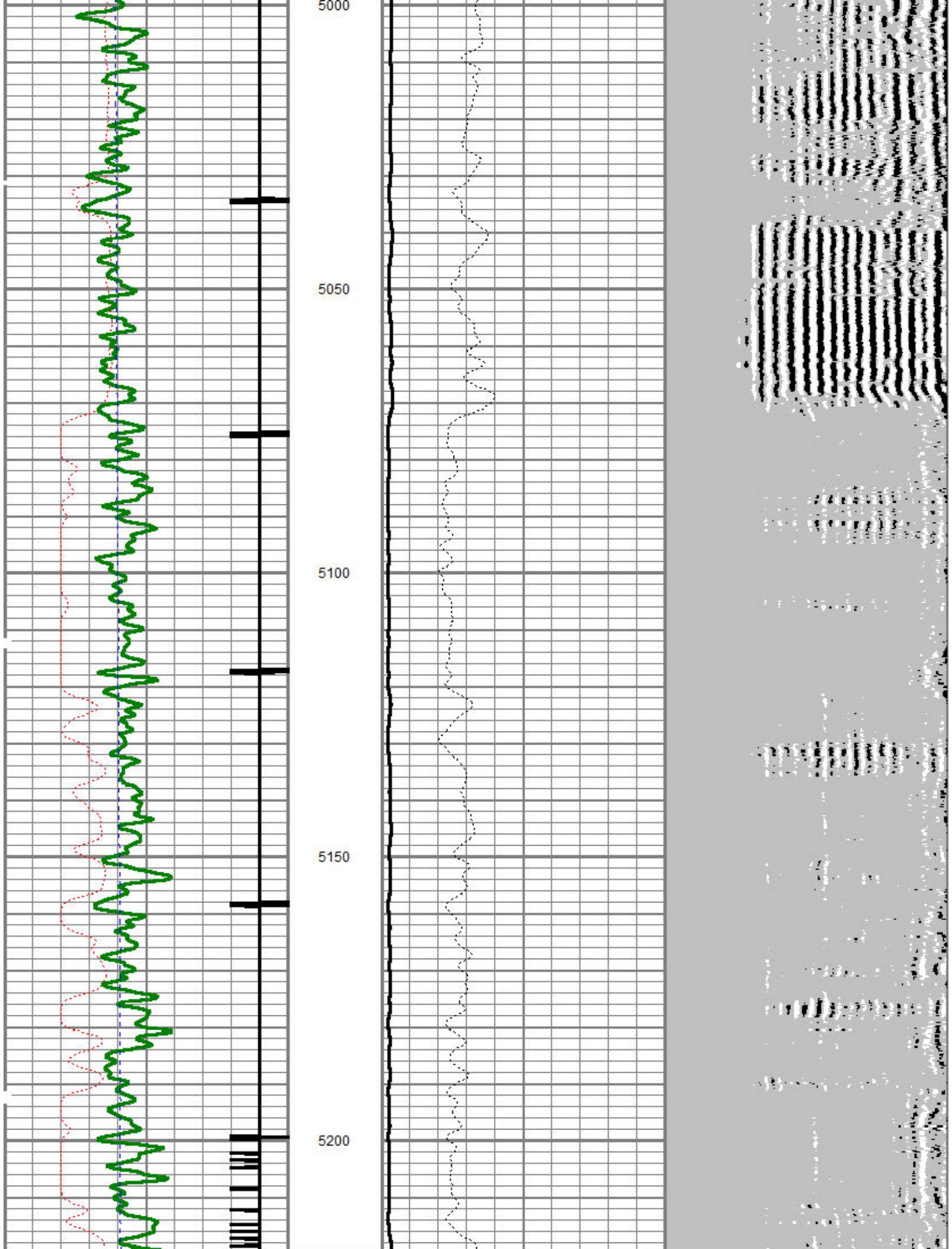


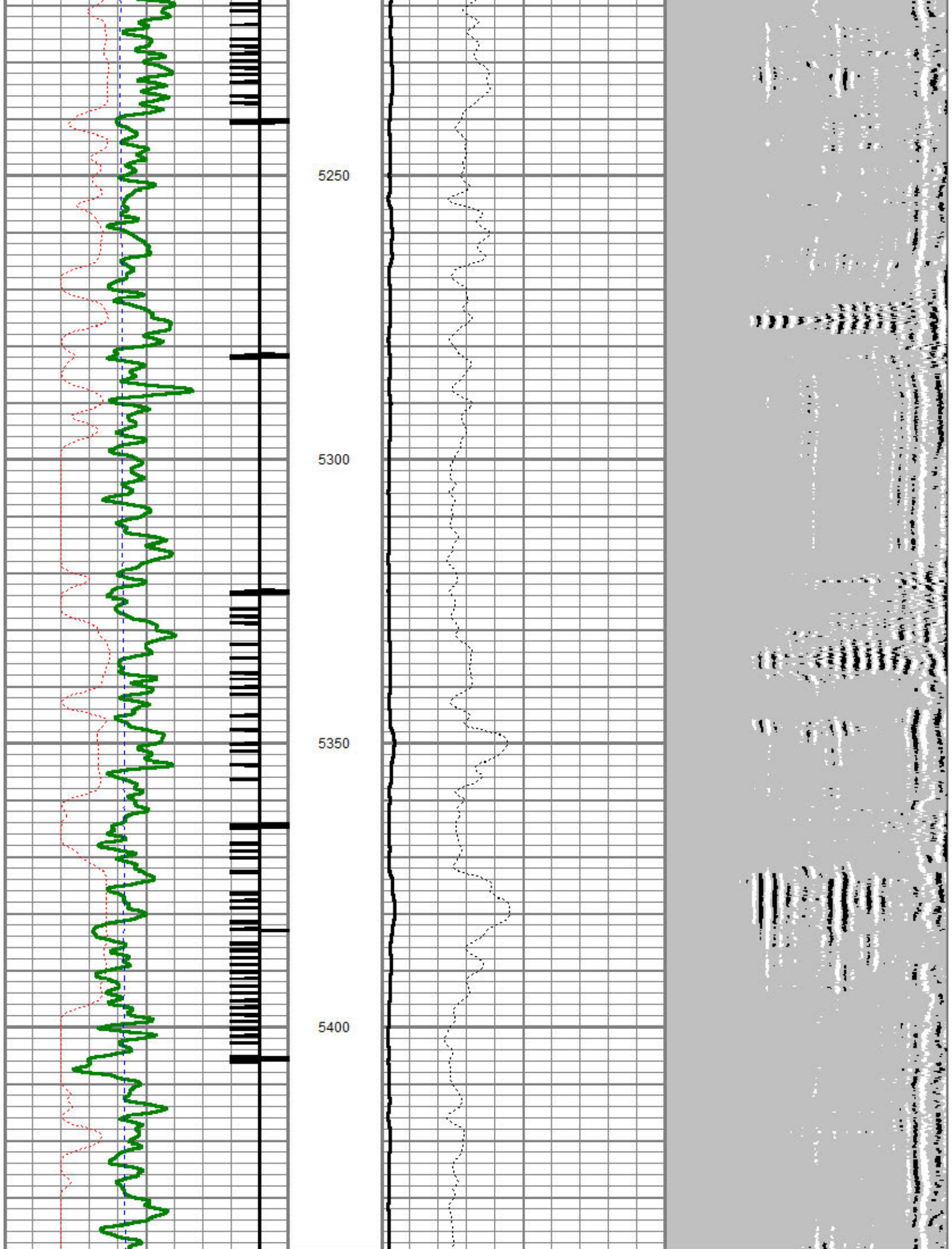


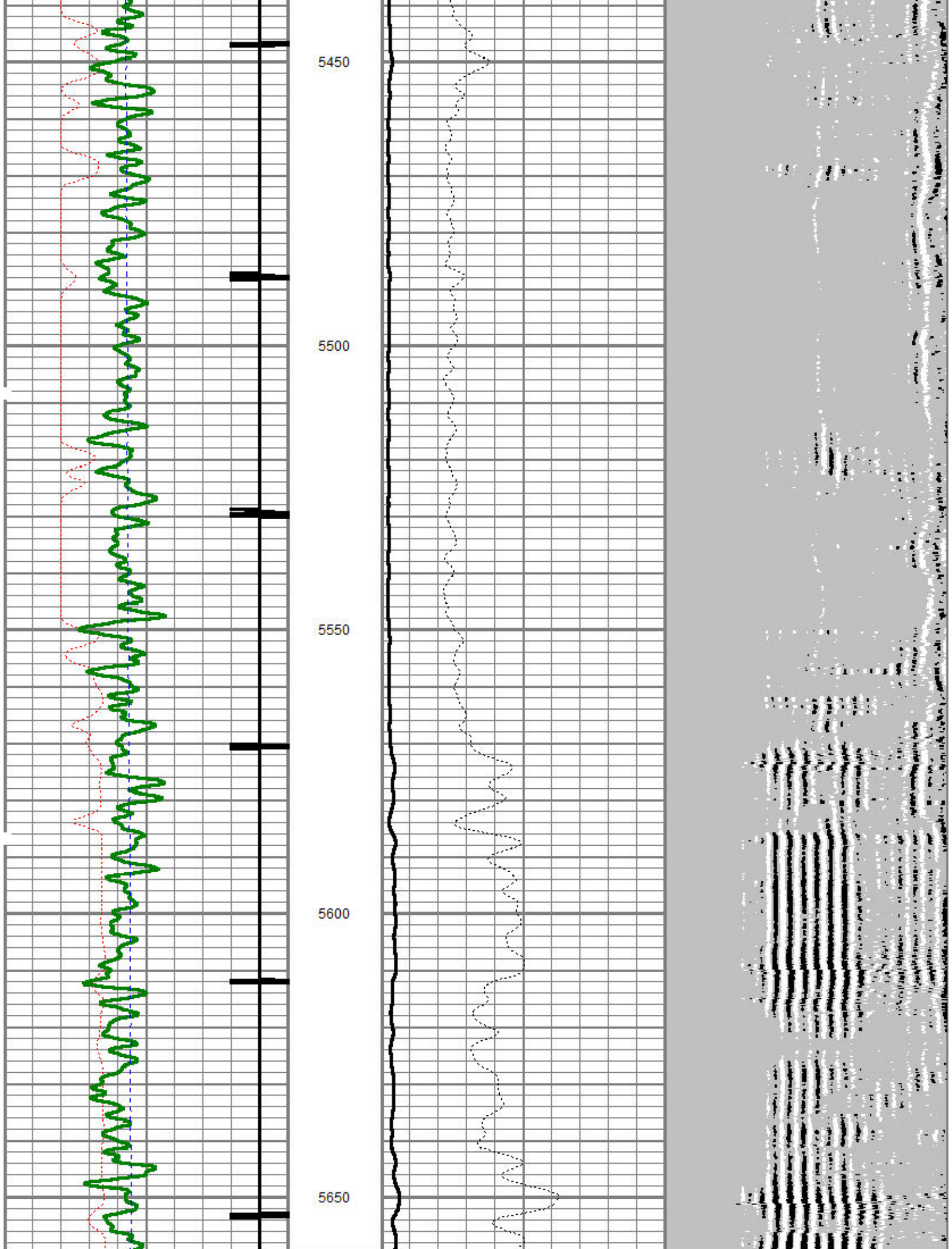


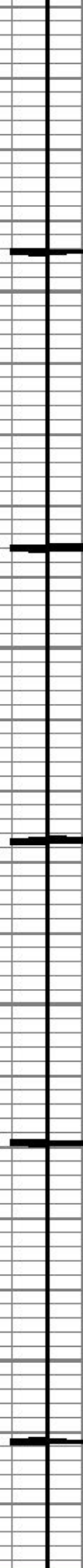
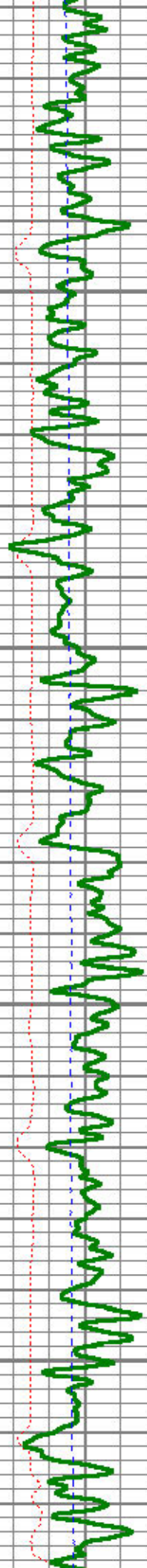










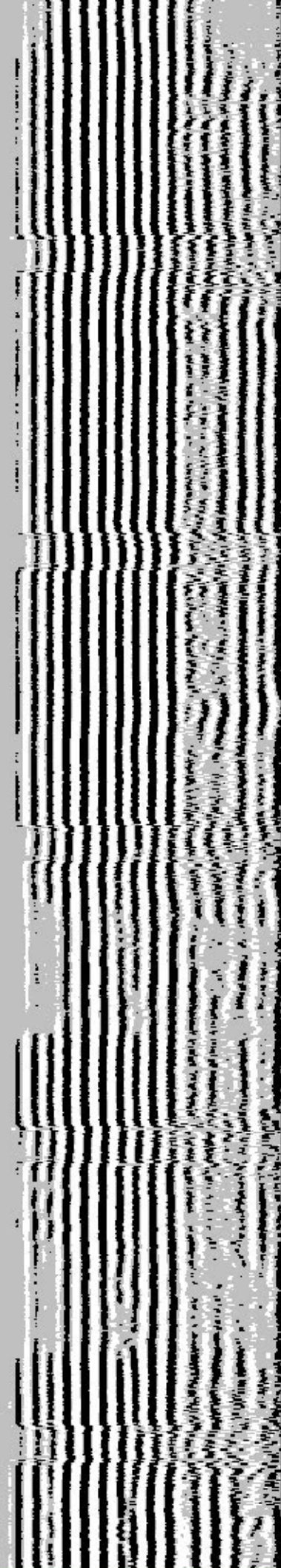
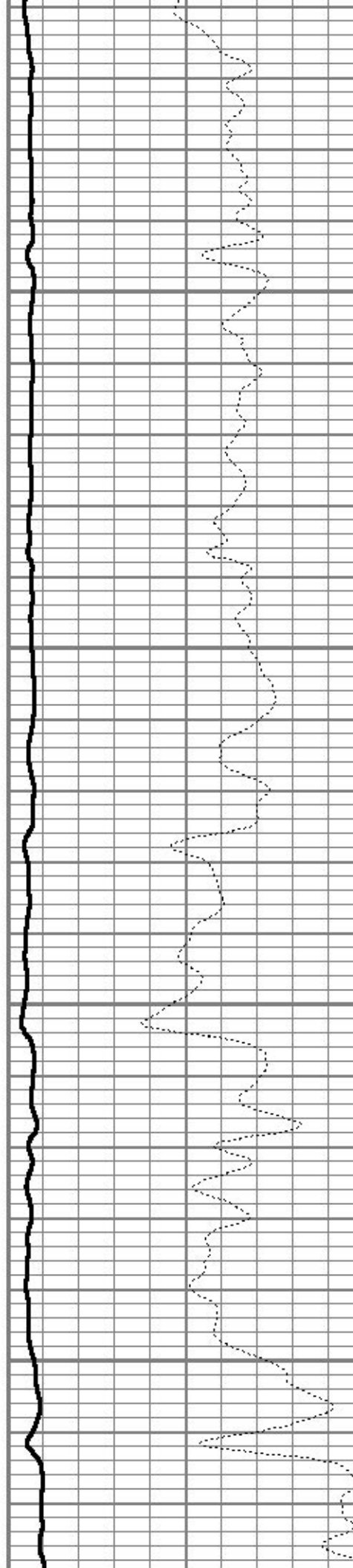


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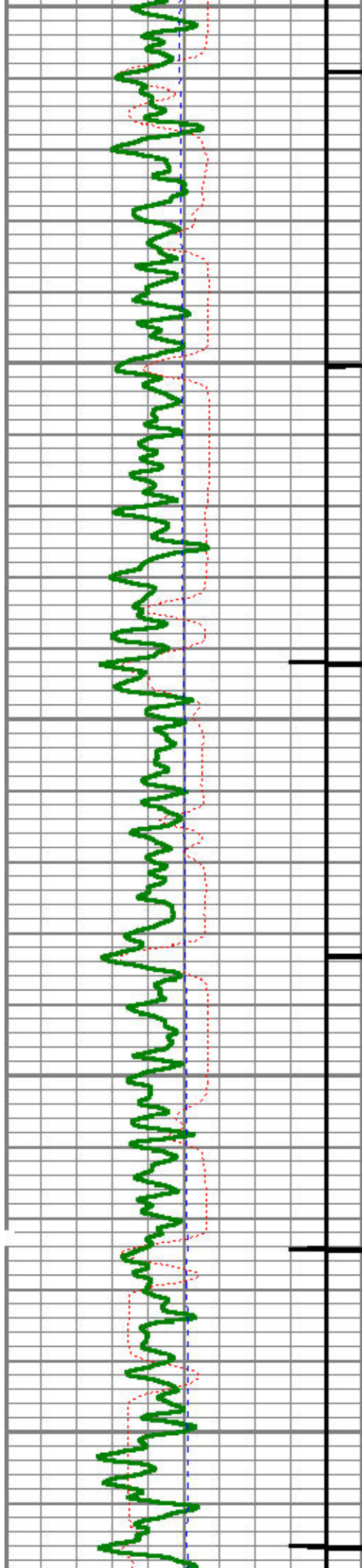
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5800

5850







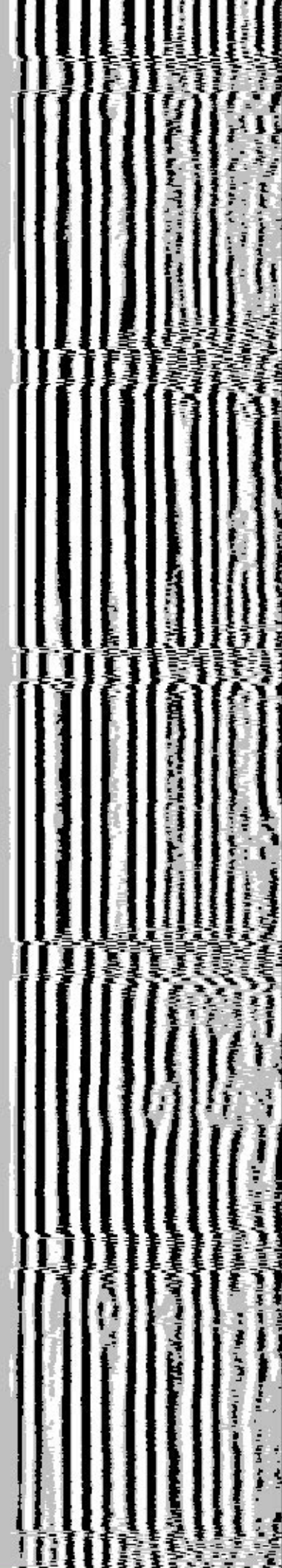
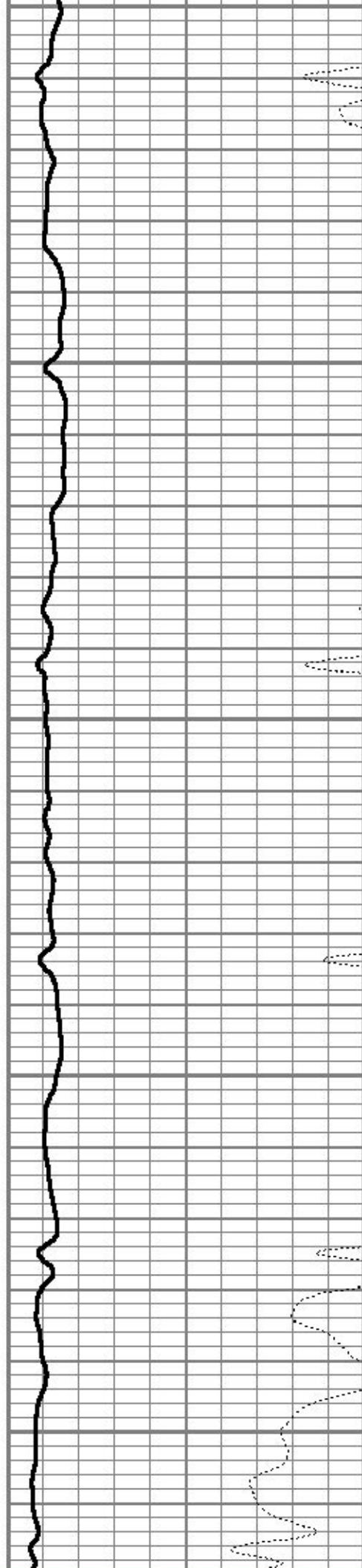
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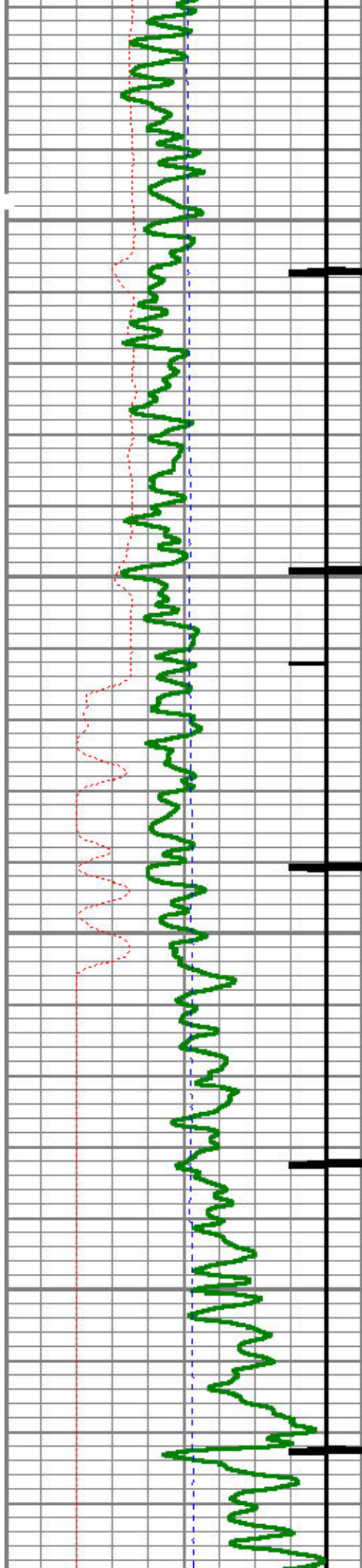
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6200

6250

6300



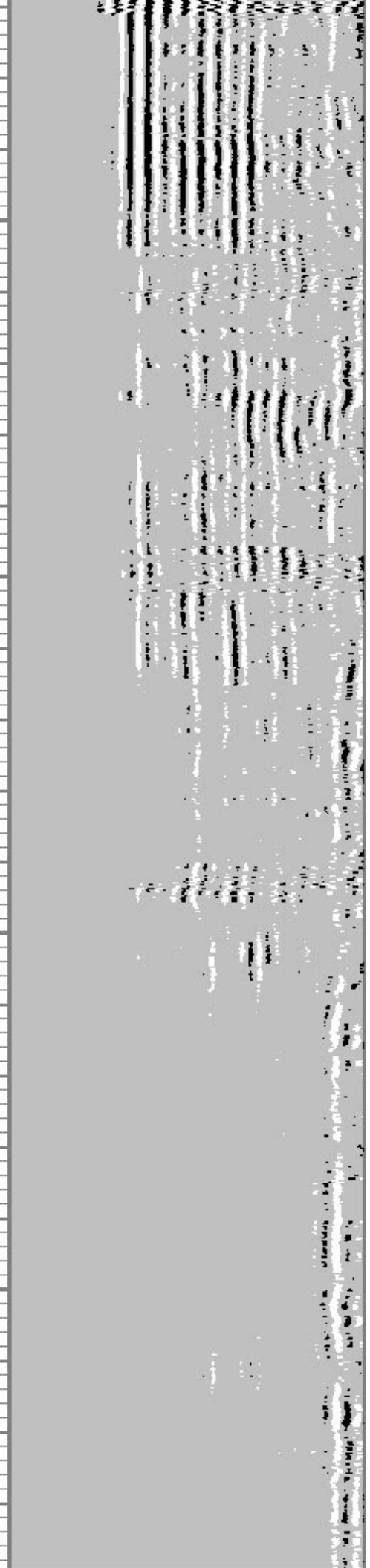
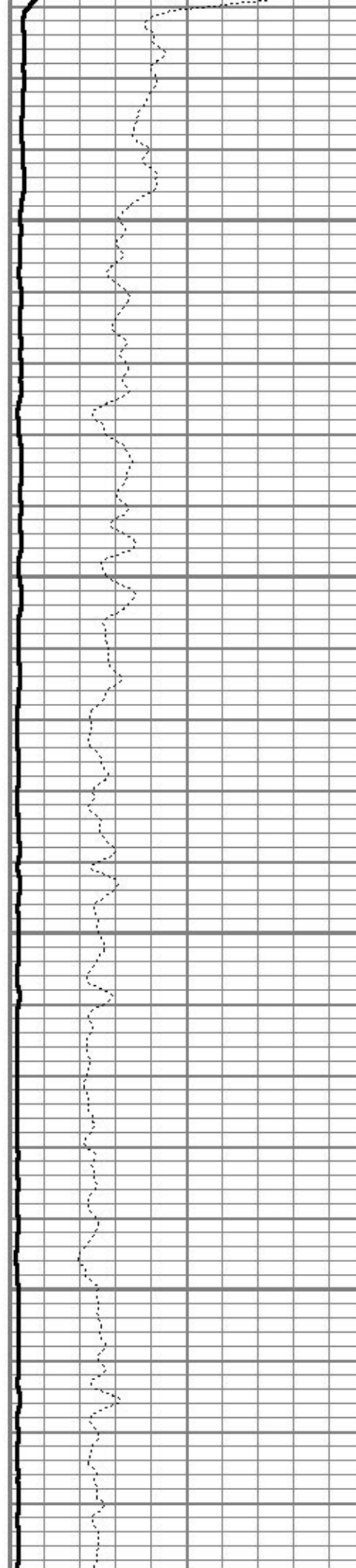


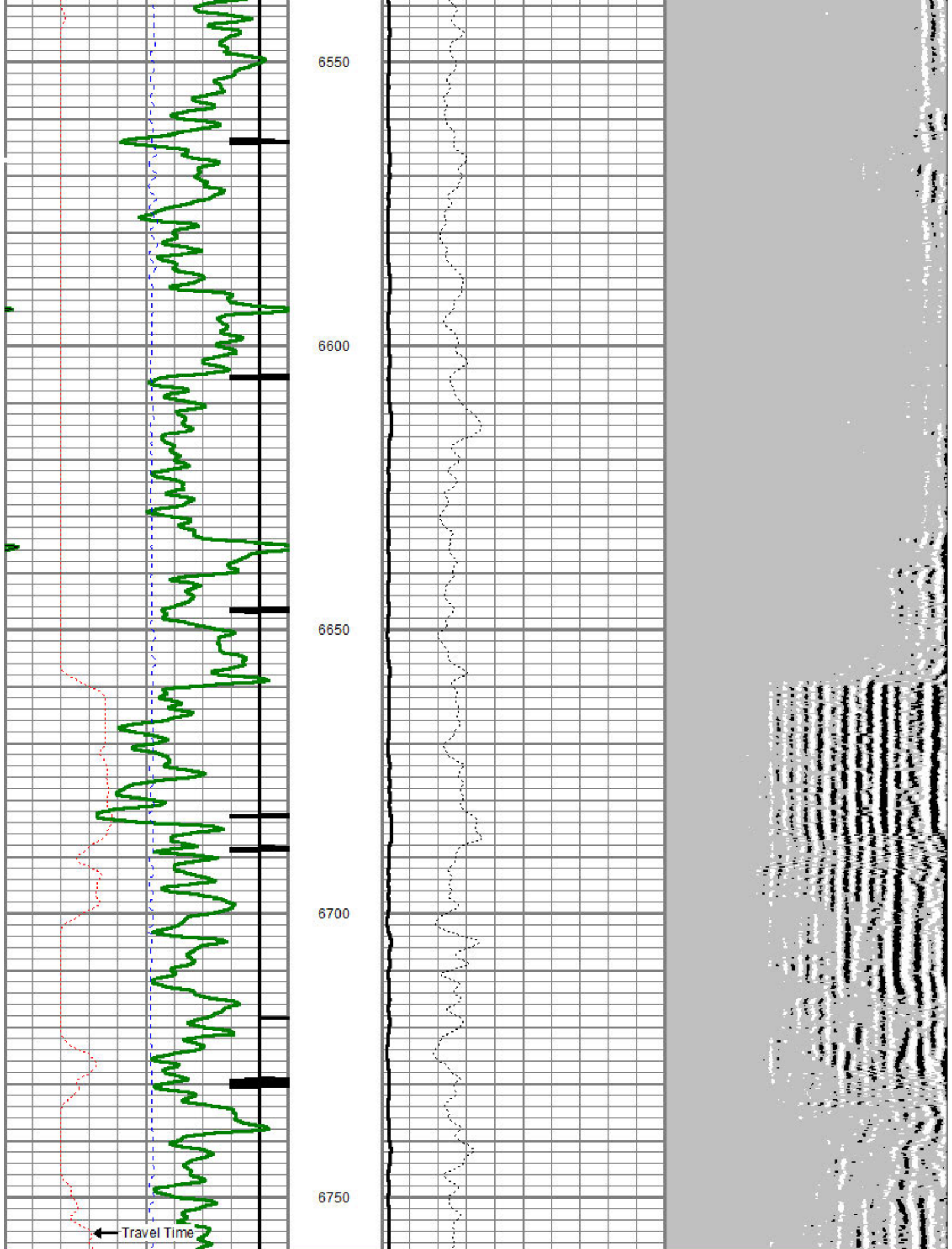
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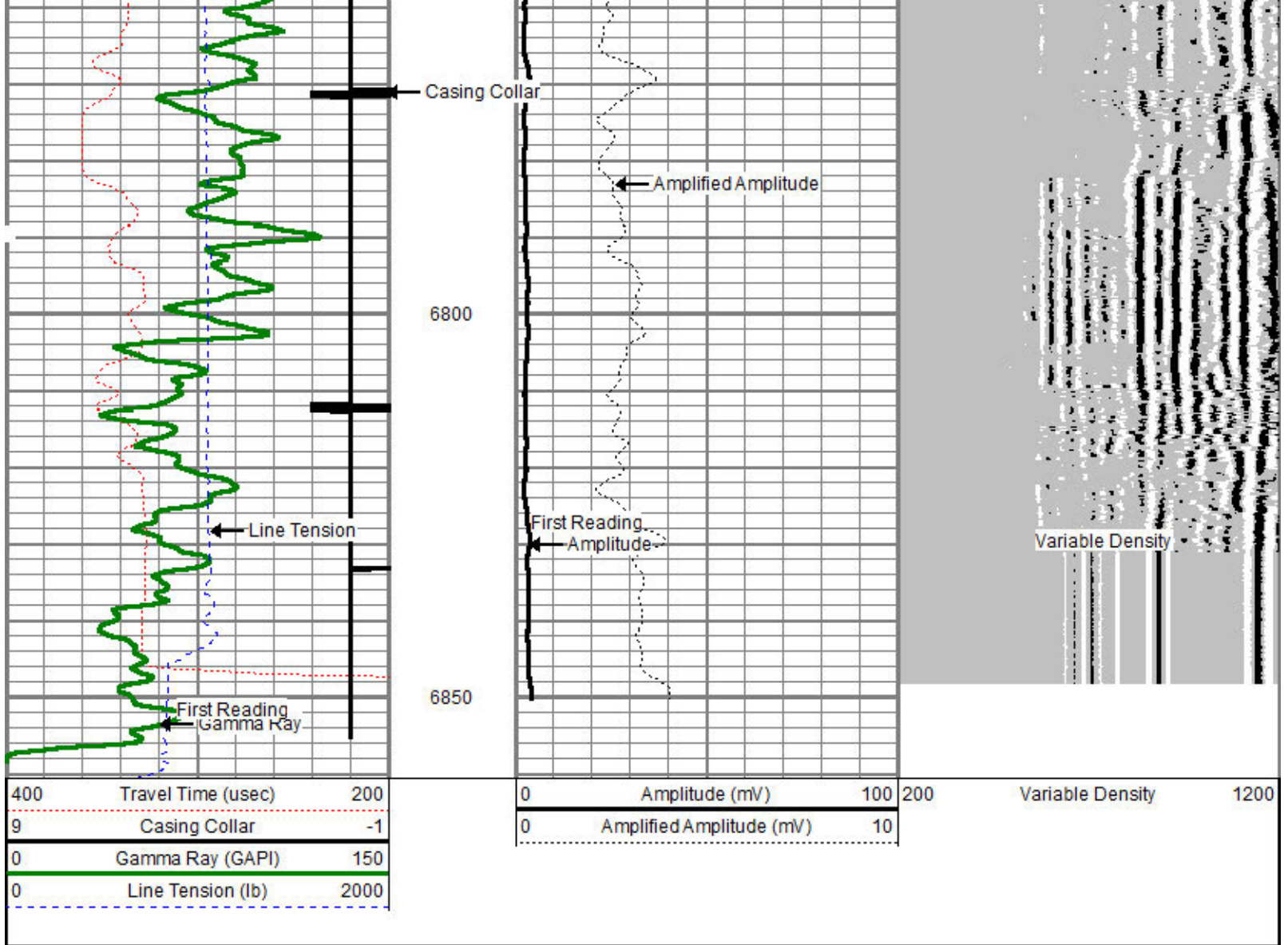
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6450

6500

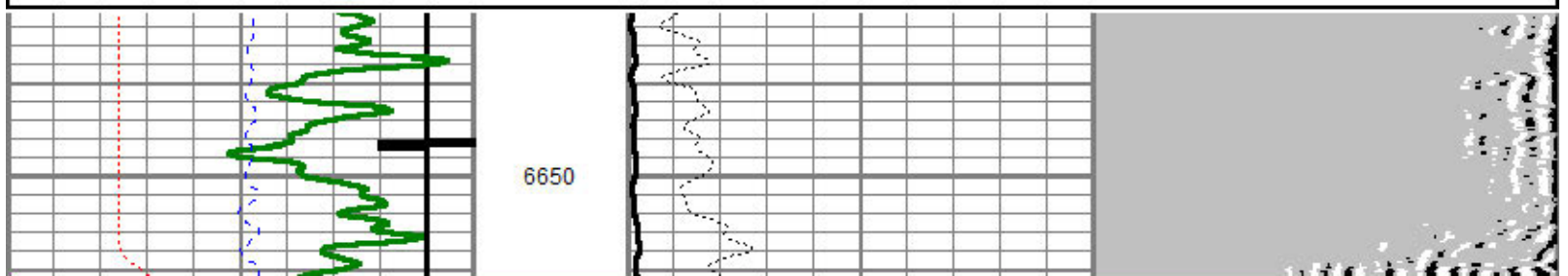
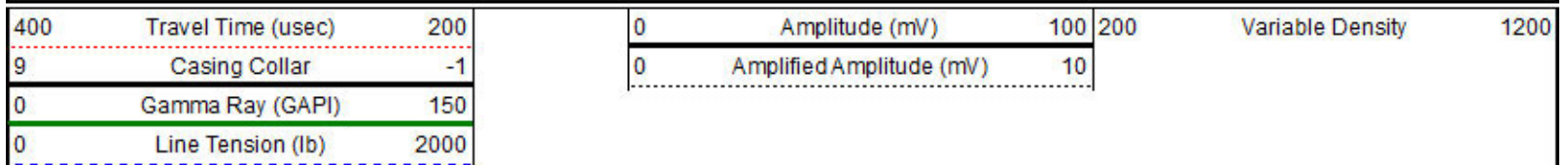


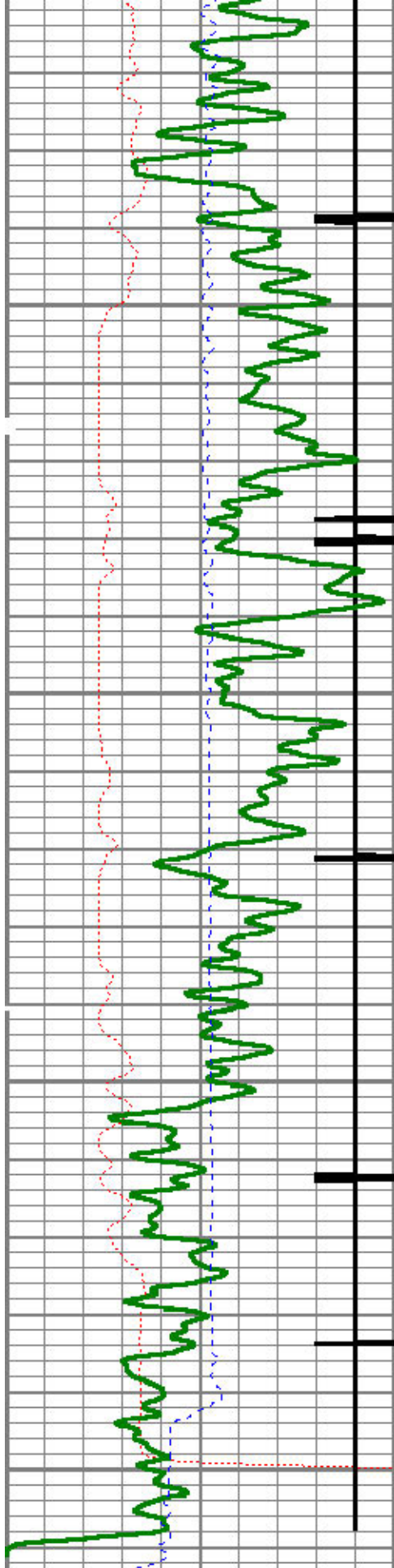




Repeat Pass

Database File: northplattee-a-24hnc.db
 Dataset Pathname: pass117.10
 Presentation Format: cblprobe
 Dataset Creation: Sun Aug 17 15:44:55 2014 by Calc 0
 Charted by: Depth in Feet scaled 1:240



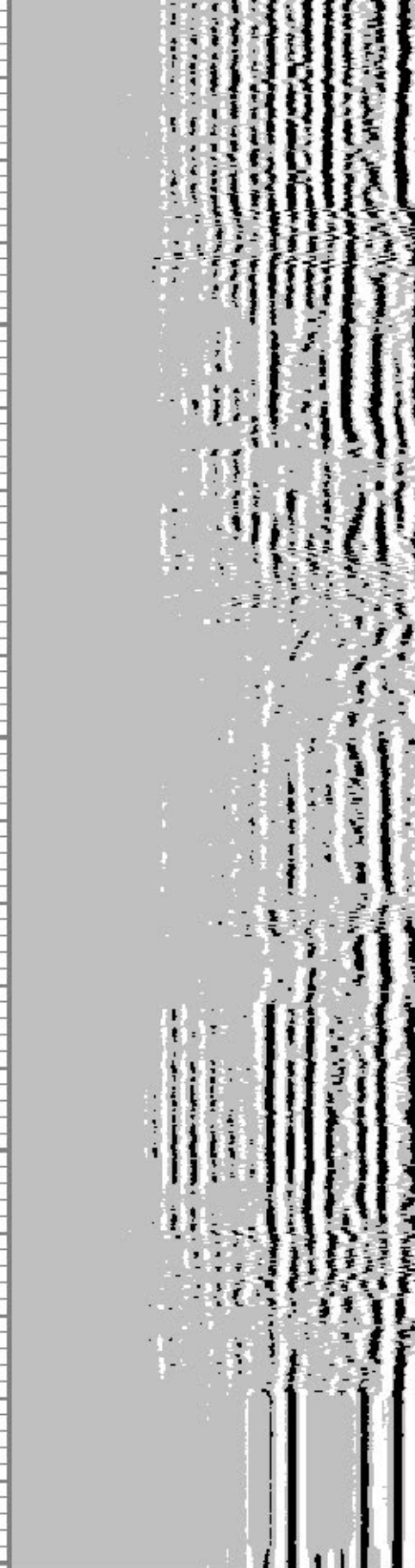
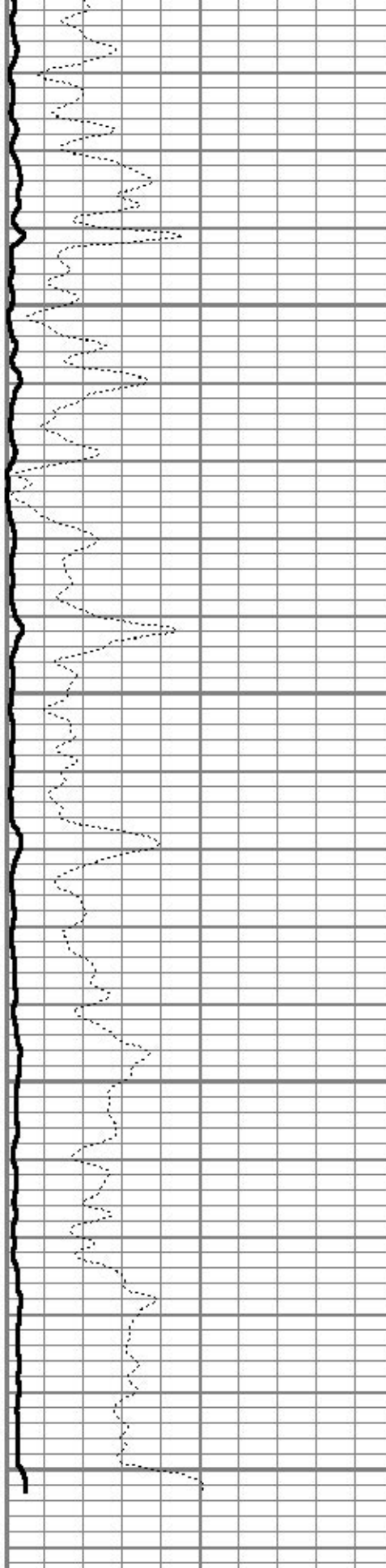


6700

6750

6800

6850



400	Travel Time (usec)	200
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
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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
			RBT-Probe (111107) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WV3FT	13.09					
WVFCAL	13.09					
WVFS1	13.09					
WVFS2	13.09					
WVFS3	13.09					
WVFS4	13.09					
WVFS5	13.09					
WVFS6	13.09					
WVFS7	13.09					
WVFS8	13.09					
WV5FT	12.09					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	5.13					
GR	3.79		GR-Probe275 (111111) 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

Total Length: 21.53 ft
Total Weight: 227.00 lb
O.D. 2.75 in

Calibration Report

Database File: northplatte-a-24hnc.db
Dataset Pathname: pass19.7
Dataset Creation: Sat Aug 16 19:03:19 2014 by Calc 0

Temperature Calibration Report

Serial Number: 101234
Tool Model: 1.375TEMP
Performed: Tue Jul 01 10:51:17 2014

	Reference	Reading
Low Reference:	1.00 degF	10.00 cps
High Reference:	1.00 degF	10.00 cps
Gain:	0.19	
Offset:	0.20	
Delta Spacing	2	

Gamma Ray Calibration Report

Serial Number: 111111
Tool Model: Probe275
Performed: Tue Jul 01 18:43:21 2014

Calibrator Value:	1022.0	GAPI
Background Reading:	82.4	cps
Calibrator Reading:	1474.8	cps
Sensitivity:	0.6000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 111107
Tool Model: Probe

Calibration Casing Diameter:	7.000	in
Calibration Depth:	189.617	ft

Master Calibration, performed Sat Aug 16 13:43:59 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.013	0.246	1.000	71.921	273.353	4.550
CAL	-0.025	0.324				
5'	-0.020	0.244	1.000	71.921	268.800	6.398
SUM						
S1	0.144	0.147	0.000	100.000	28643.400	-4110.490
S2	-0.002	0.266	0.000	100.000	373.195	0.729
S3	0.001	0.237	0.000	100.000	424.852	-0.633
S4	0.002	0.227	0.000	100.000	443.866	-0.845
S5	0.004	0.252	0.000	100.000	403.825	-1.671
S6	0.012	0.295	0.000	100.000	353.378	-4.223
S7	0.011	0.320	0.000	100.000	322.888	-3.445
S8	0.007	0.309	0.000	100.000	331.070	-2.344

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

CAL

0.000

0.000

-0.025

-0.500

1.000

0.000

Air Zero Calibration, performed Fri Aug 15 12:15:10 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