

Cement Bond Variable Density Log W/ Gamma Ray/CCL

Company Bonanza Creek Energy
Well North Platte F-J-13HNC
Field Wattenberg
County Weld
State Colorado

Company Bonanza Creek Energy
Well North Platte F-J-13HNC
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-40386

SHL: 453' FNL & 1174' FWL

SEC 13 TWP 5N RGE 63W

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Kelly Bushing 17' APD
Kelly Bushing

Elevation
K.B. 4658'
D.F. 4657'
G.L. 4641'

Other Services
NONE

Date January 9, 2015

Run Number 1

Depth Driller -

Depth Logger 6530'

Bottom Logged Interval 6522'

Top Log Interval Surface

Open Hole Size 8.75

Type Fluid Fresh Water

Density / Viscosity 8.33

Max. Recorded Temp. -

Estimated Cement Top 1650'

Time Well Ready 17:35

Time Logger on Bottom 18:15

E equipment Number 13033

Location Brighton

Recorded By A. Banerjee

Witnessed By D. Barberousse

Run Number

Bit From To

Size

Wgt/Lft

Top

Bottom

Surface String 9 5/8"

Prot. String

Production String 7"

Liner

<<< Fold Here >>>

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 & Repeat Pass Logged w/0 PSI

Logged from 17' Kelly Bushing

Logging Speed Requested by Company

Thank You For using Allied-Horizontal Wireline Services
(303) 659-4609

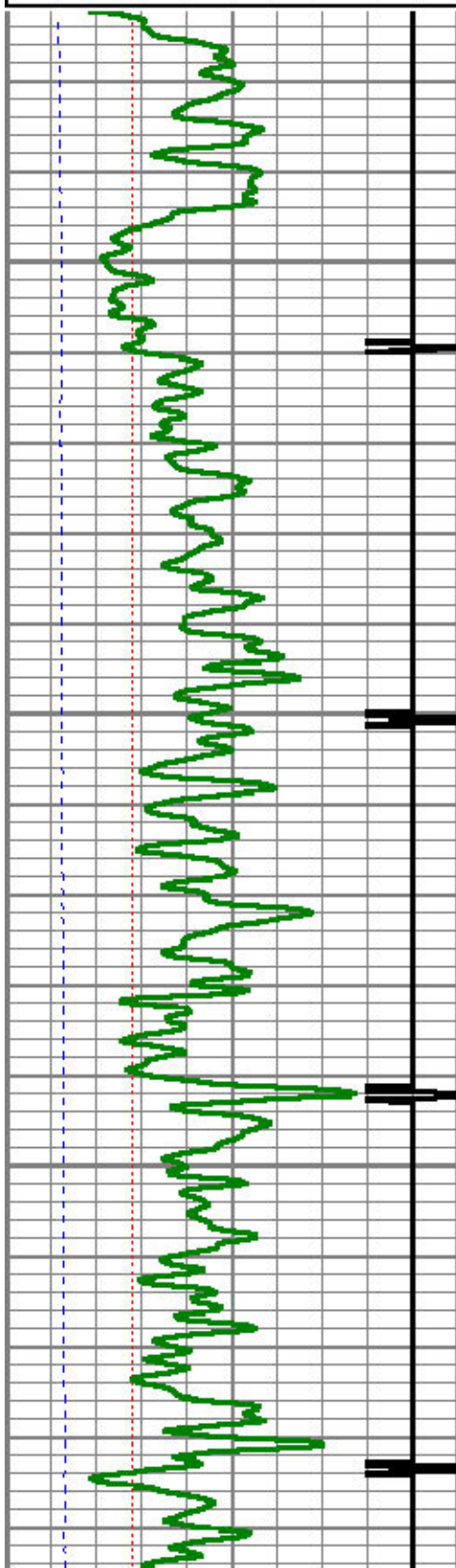
WIRELINE SERVICES

Database File: bc - np f-j-13hnc.db
 Dataset Pathname: pass3
 Presentation Format: cblprobe
 Dataset Creation: Fri Jan 09 18:25:46 2015 by Log 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)	2000

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

200 Variable Density 1200

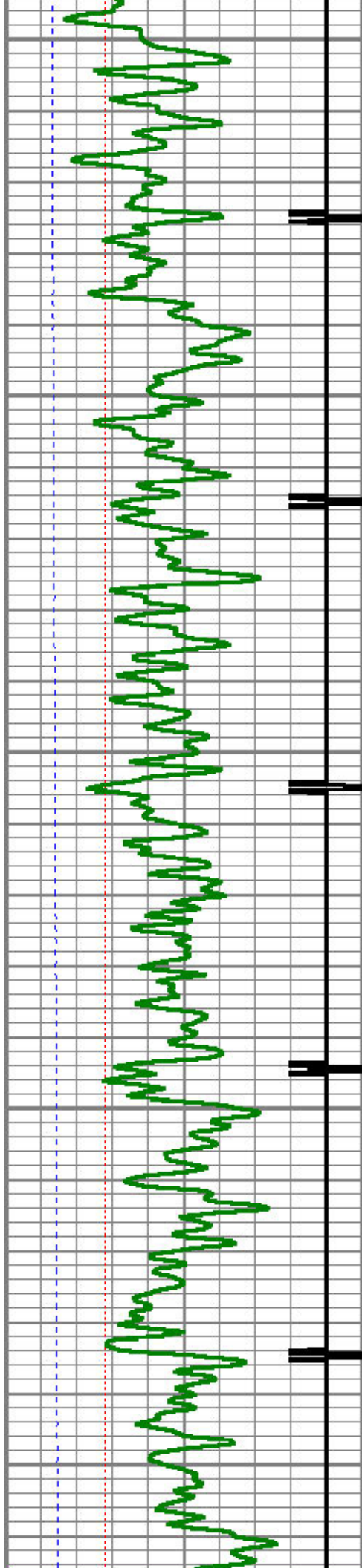


50

100

150





200

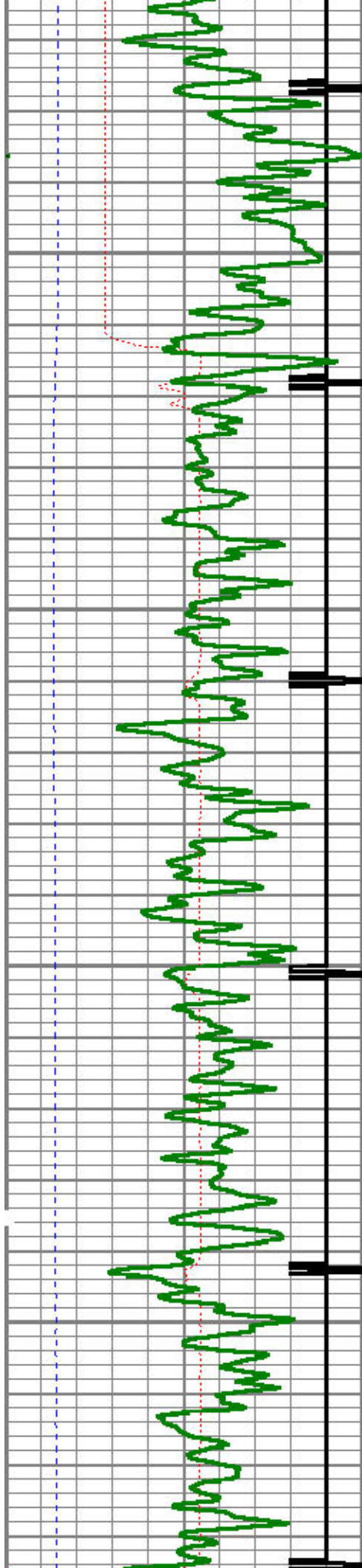
250

300

350

400





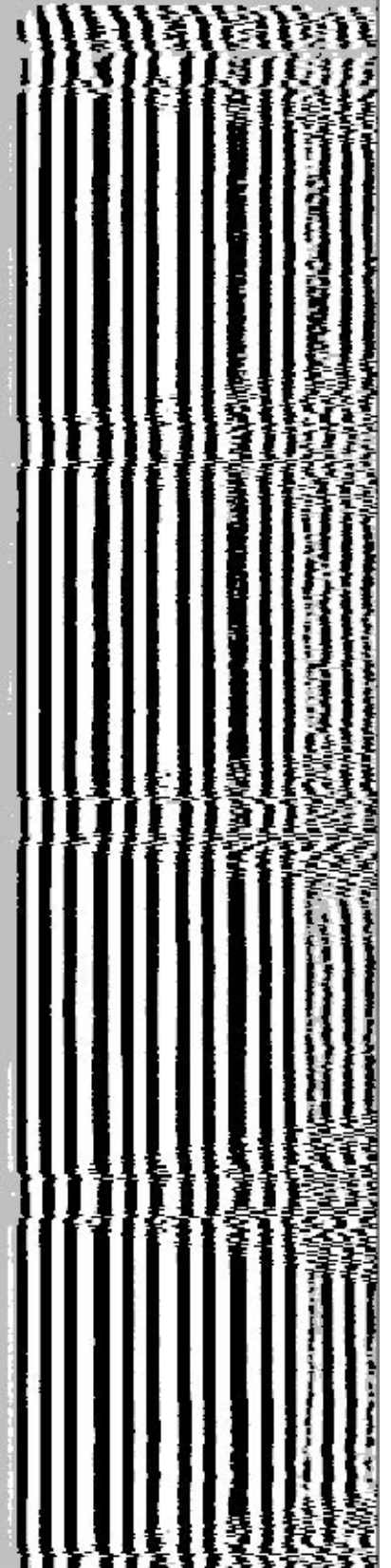
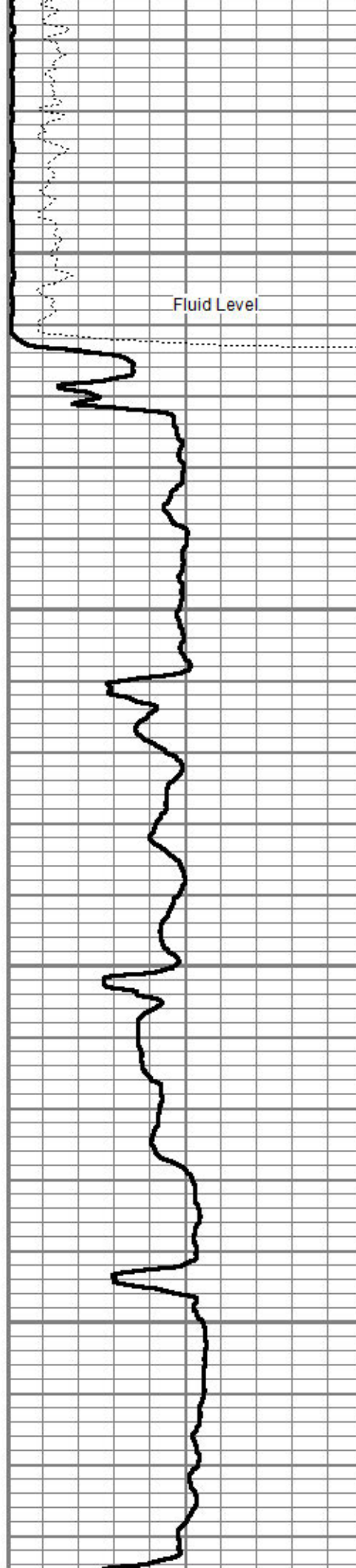
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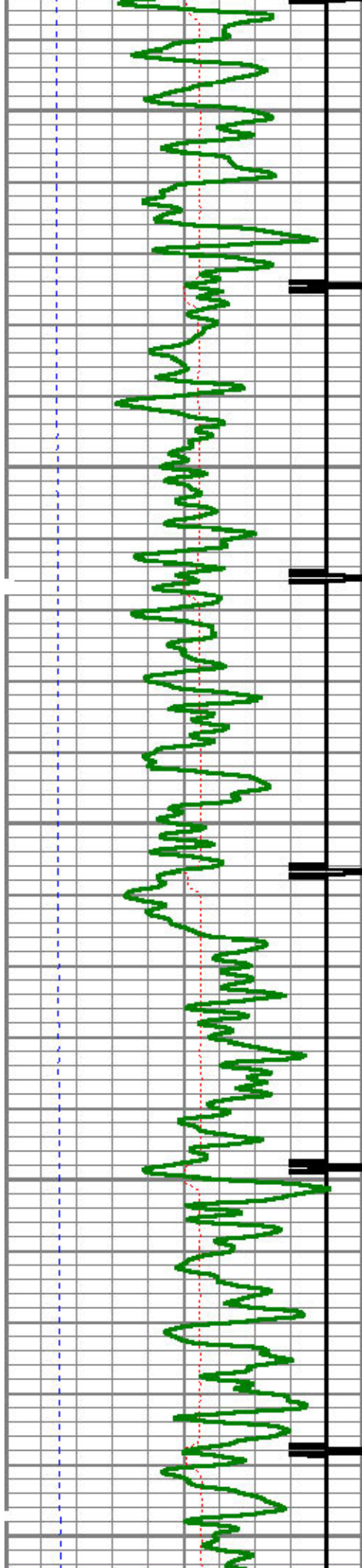
500

550

600

Fluid Level





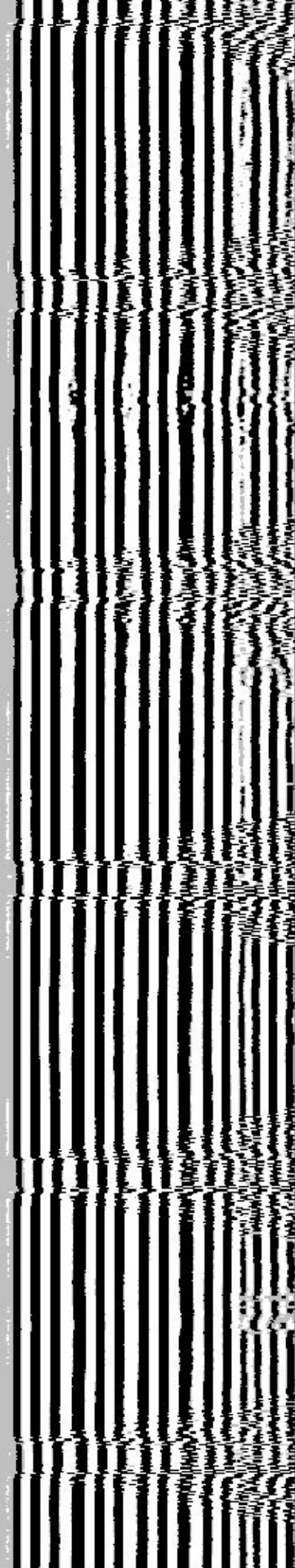
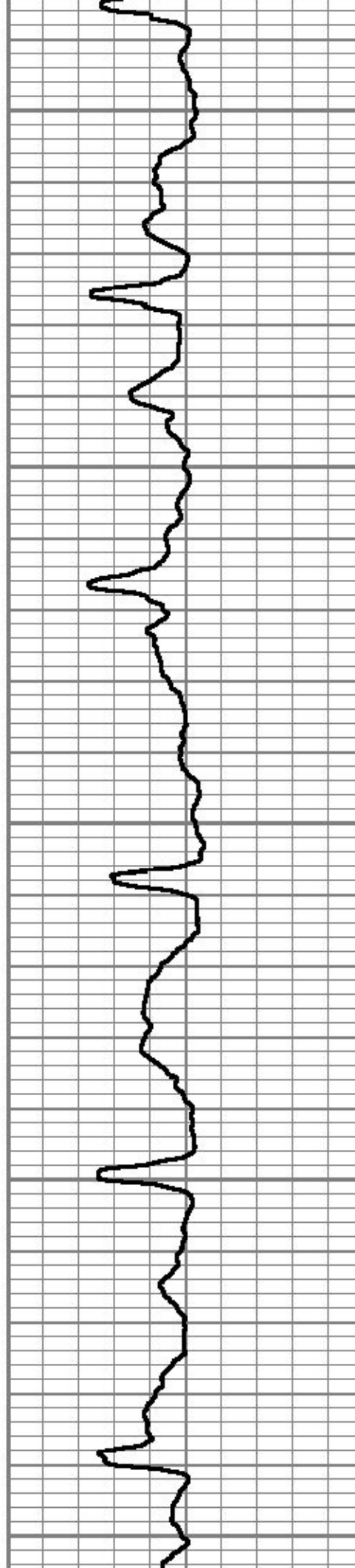
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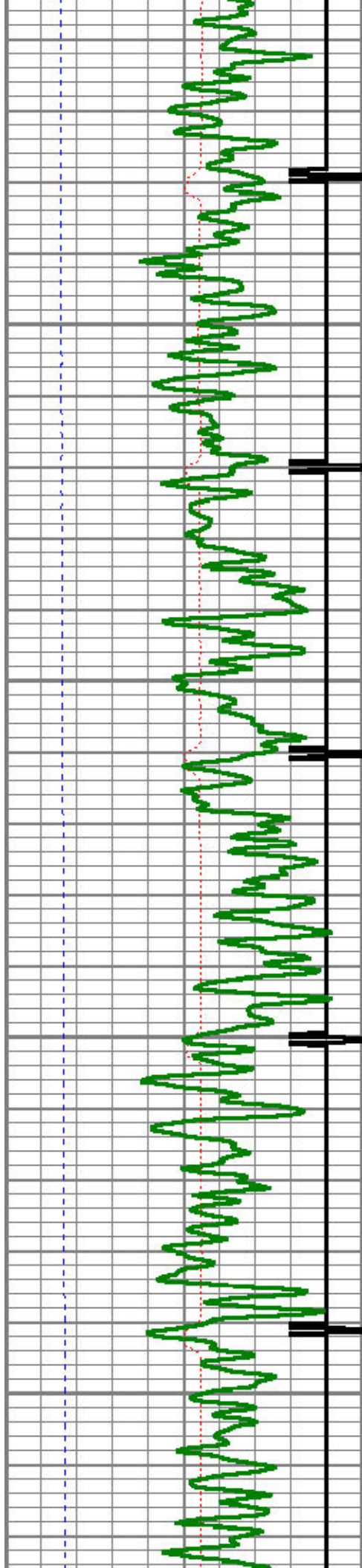
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750

800

850



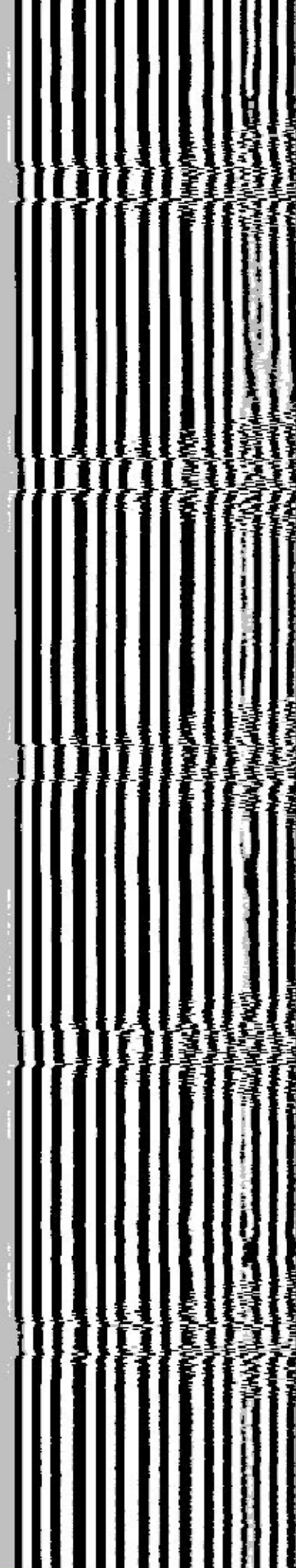
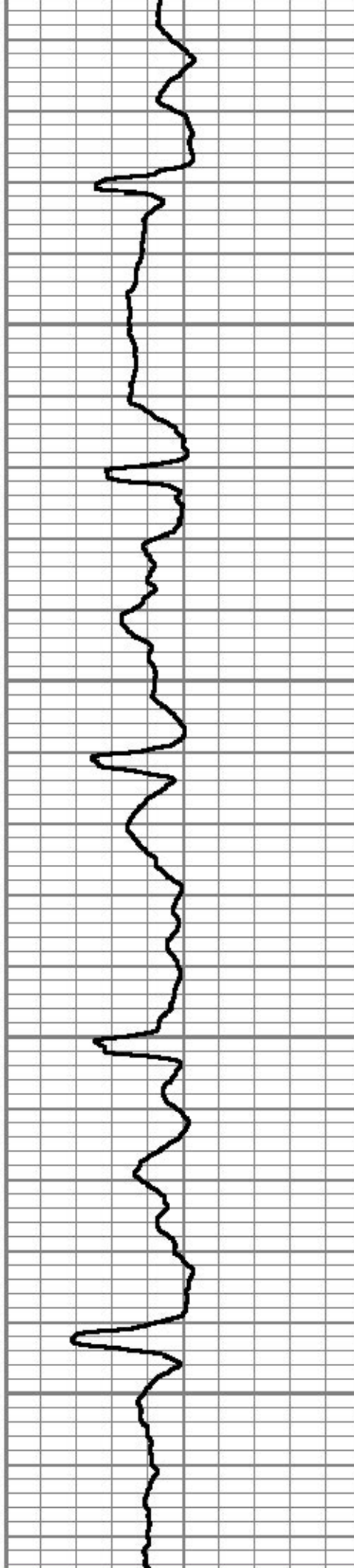


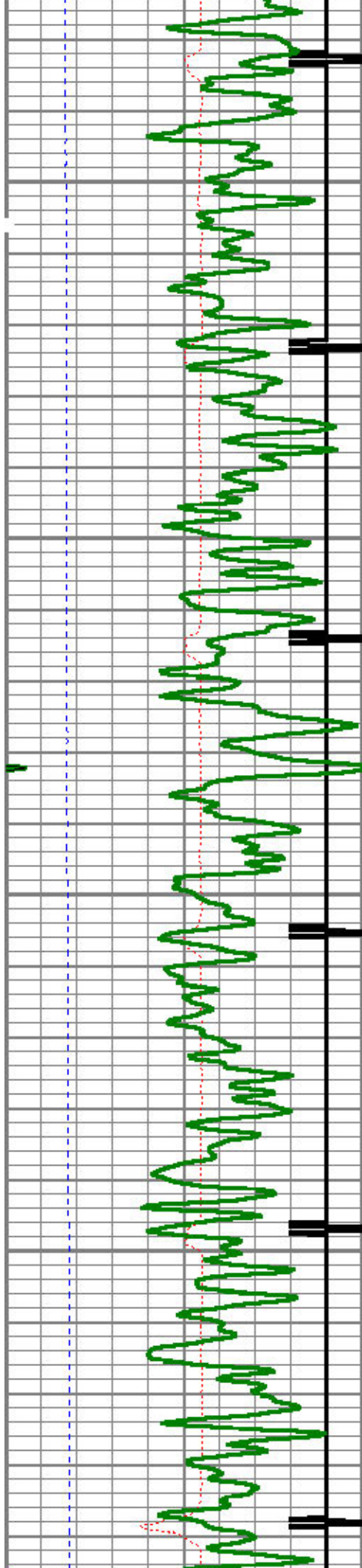
900

950

1000

1050



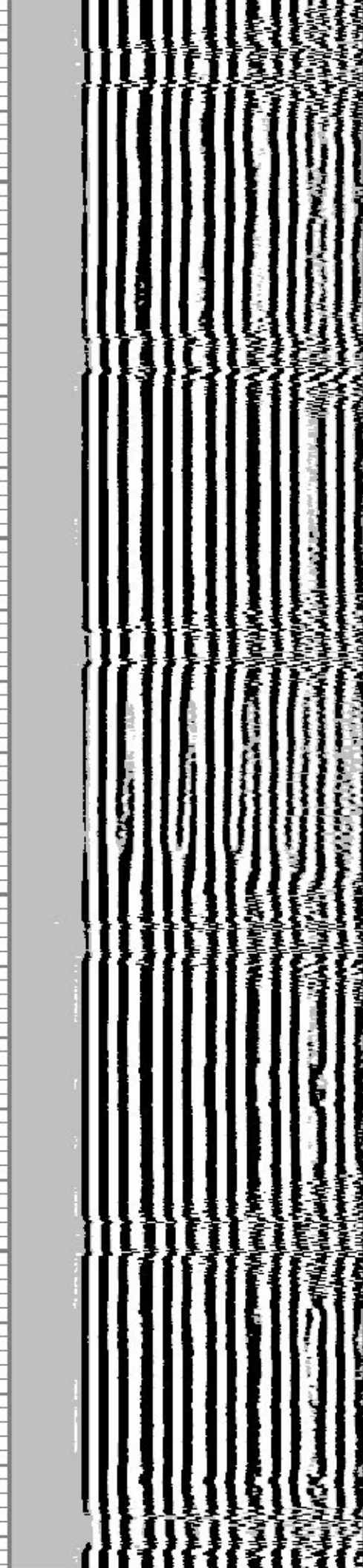
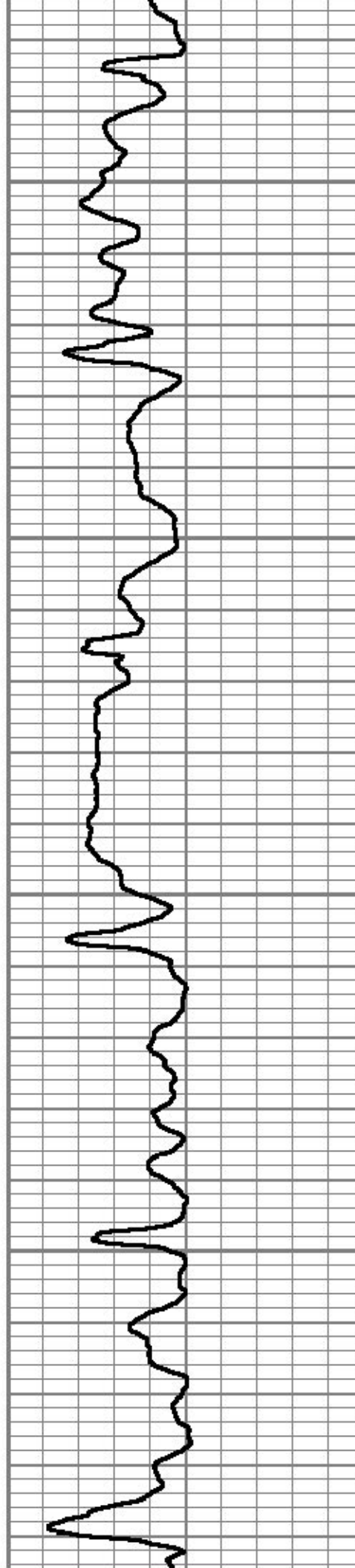


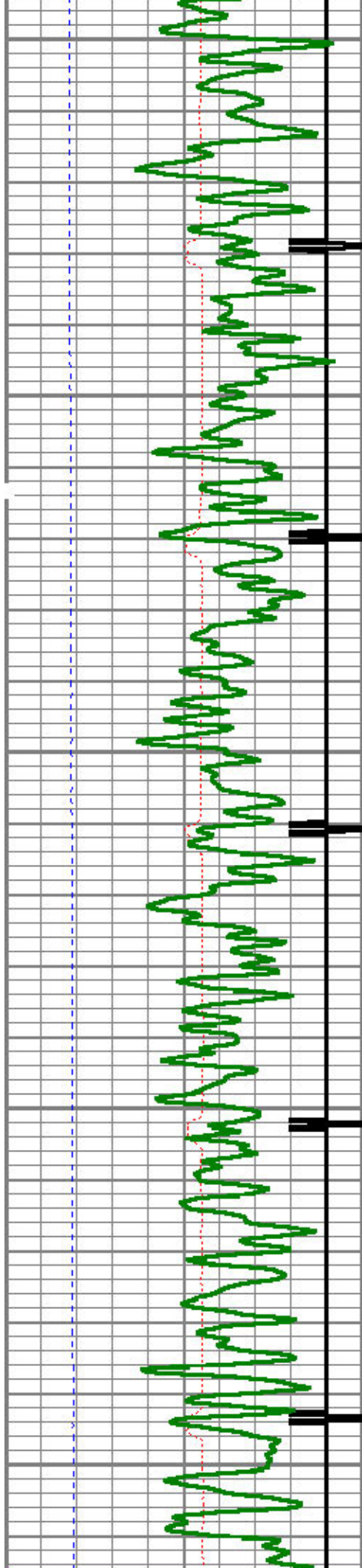
1100

1150

1200

1250





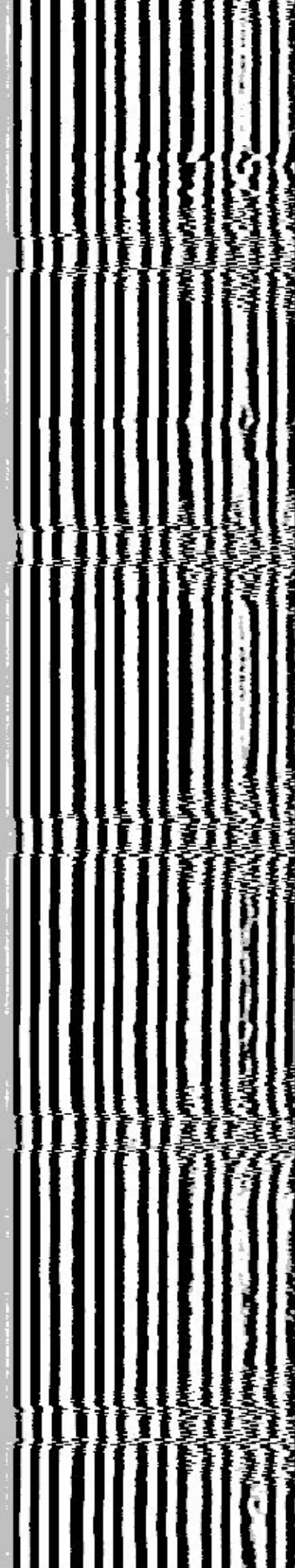
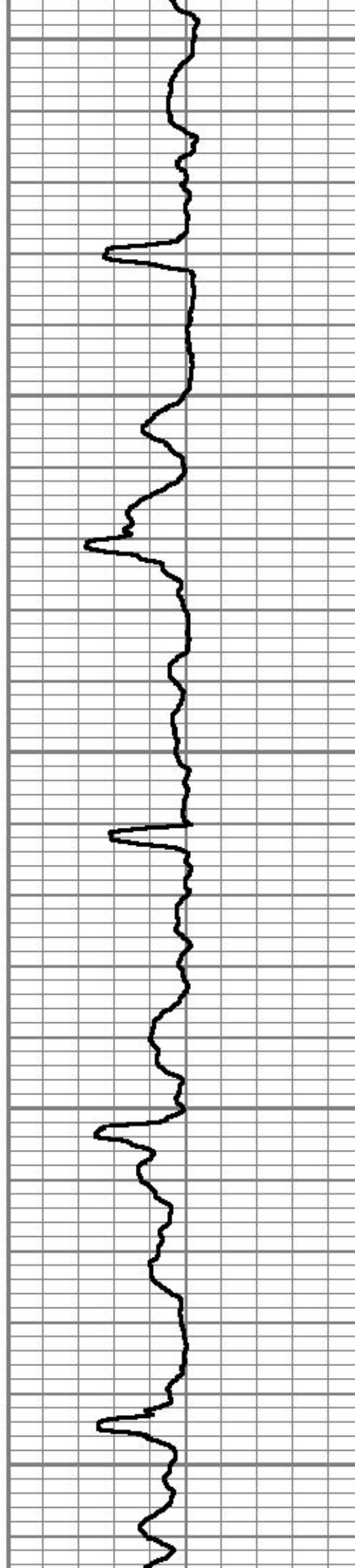
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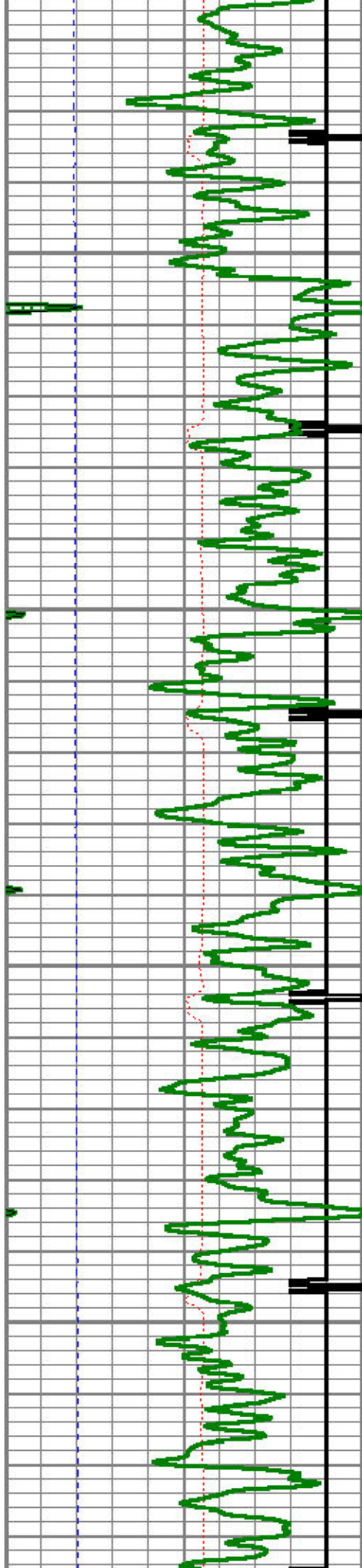
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1400

1450

1500



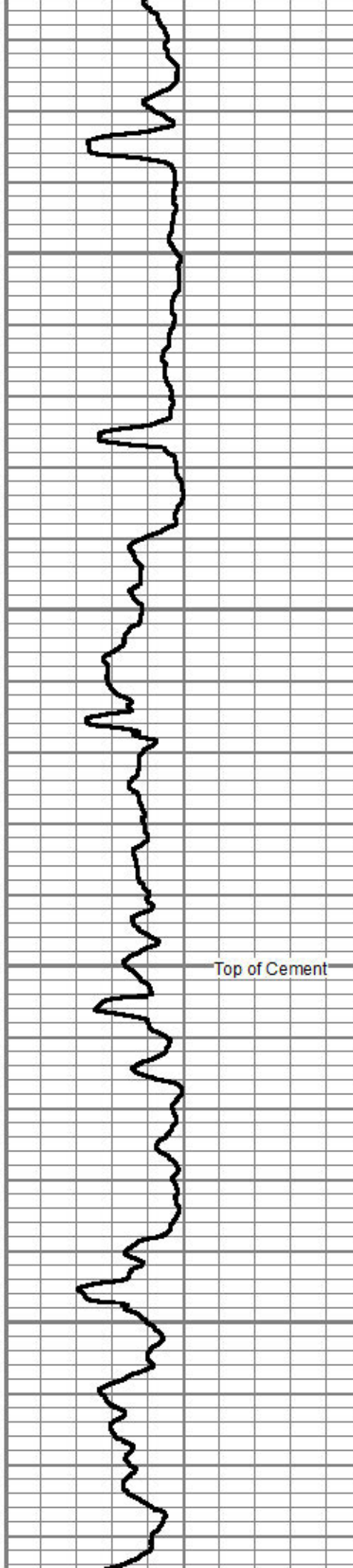


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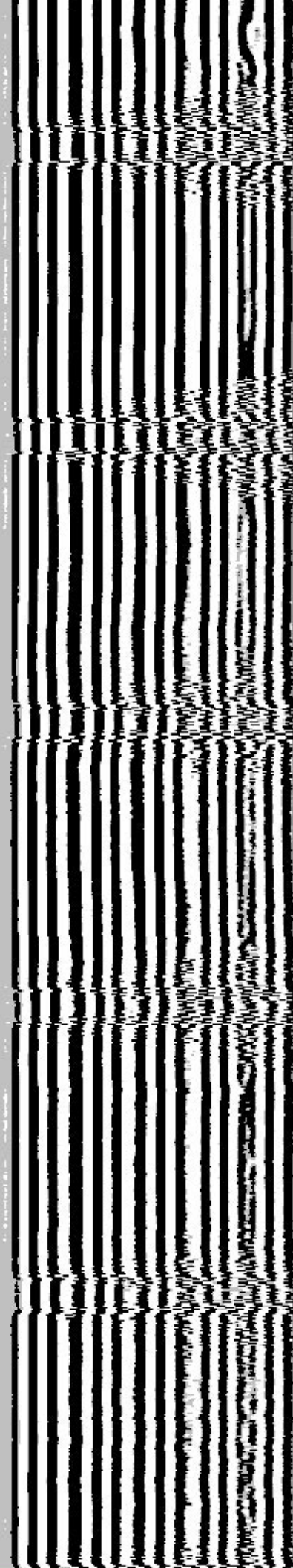
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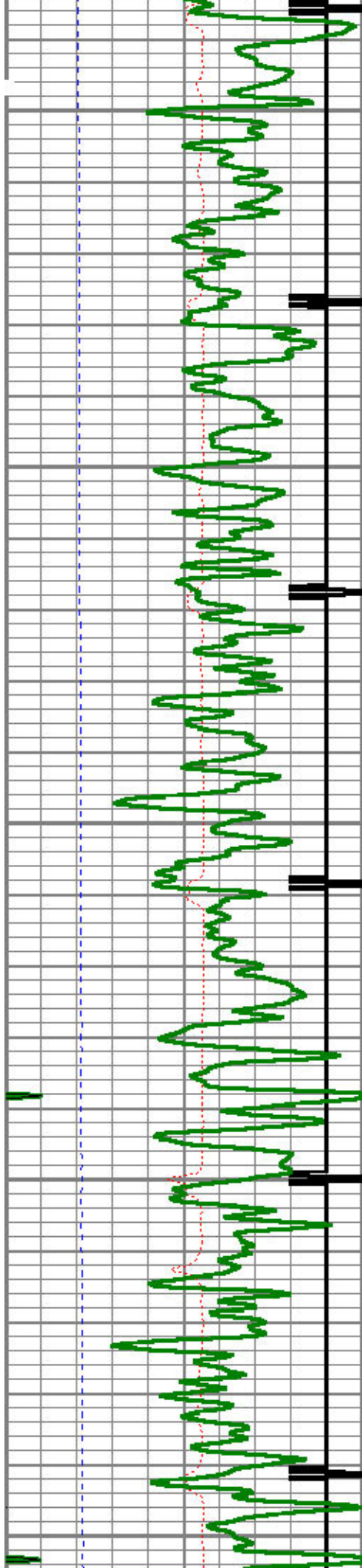
1650

1700



Top of Cement





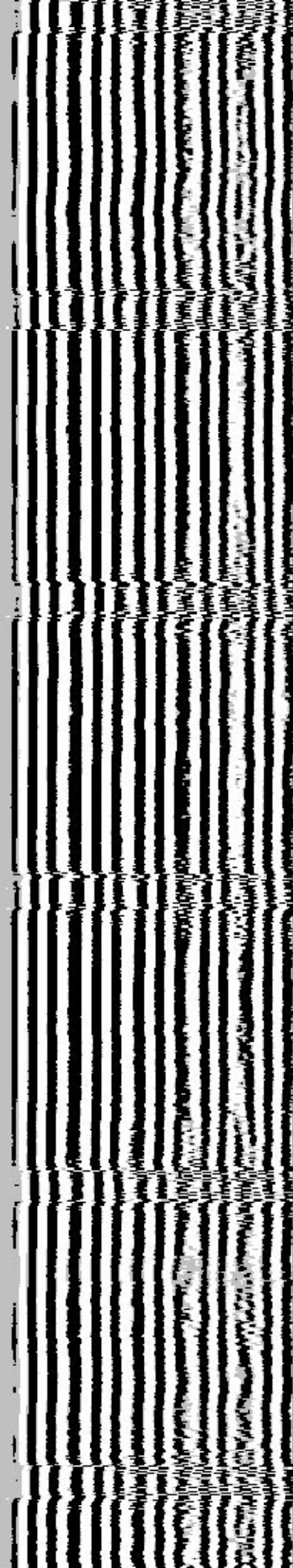
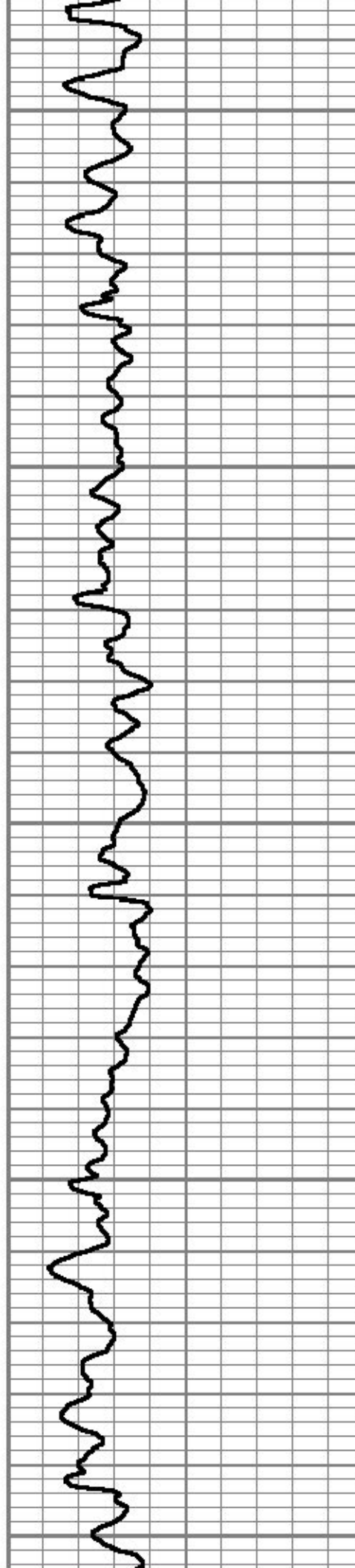
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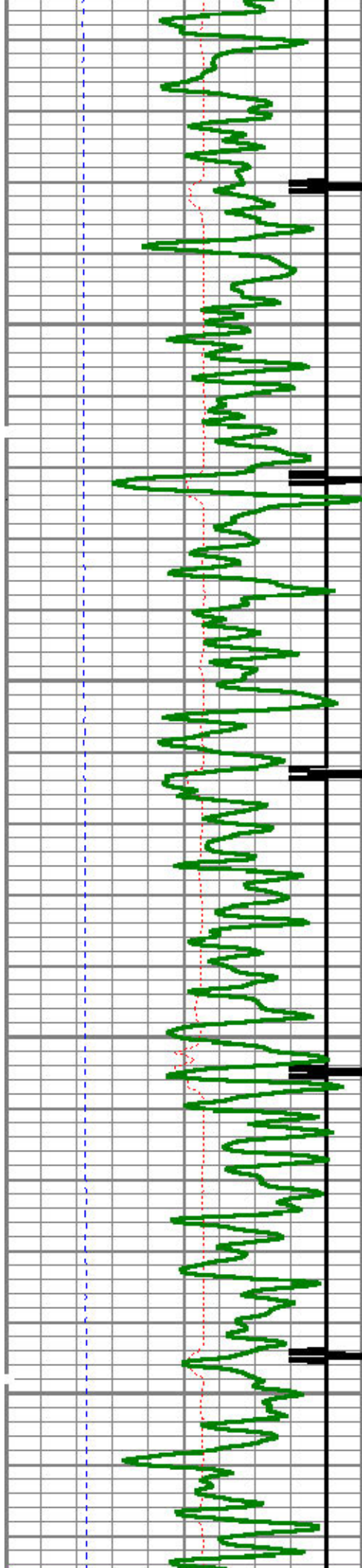
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1850

1900

1950



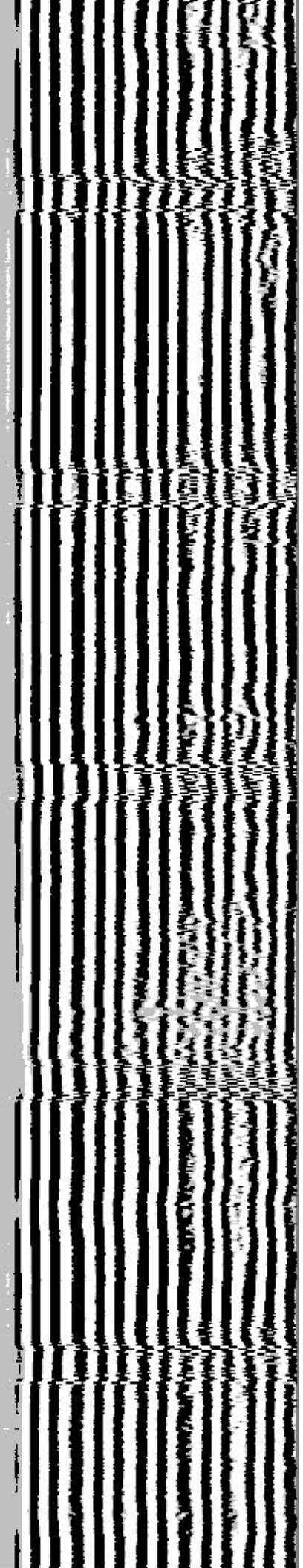
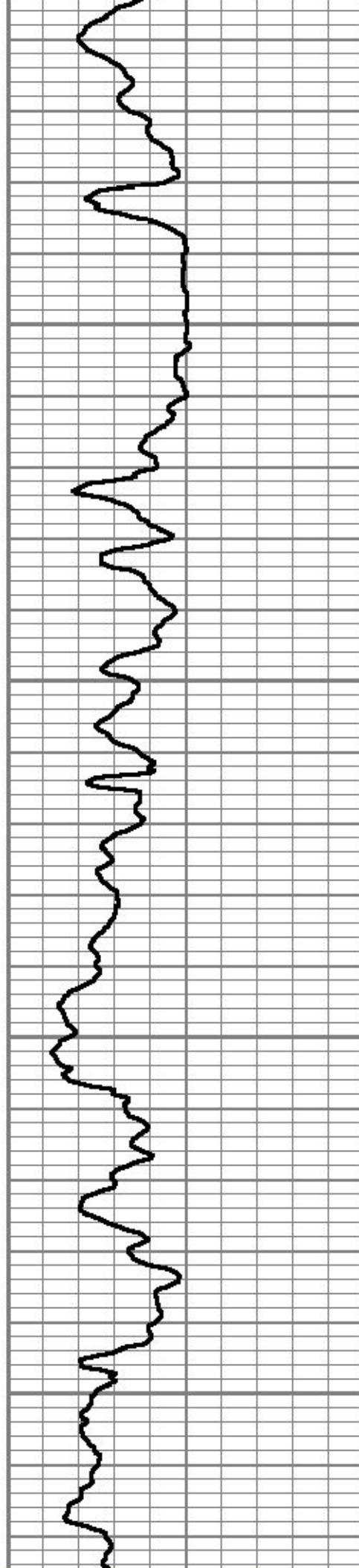


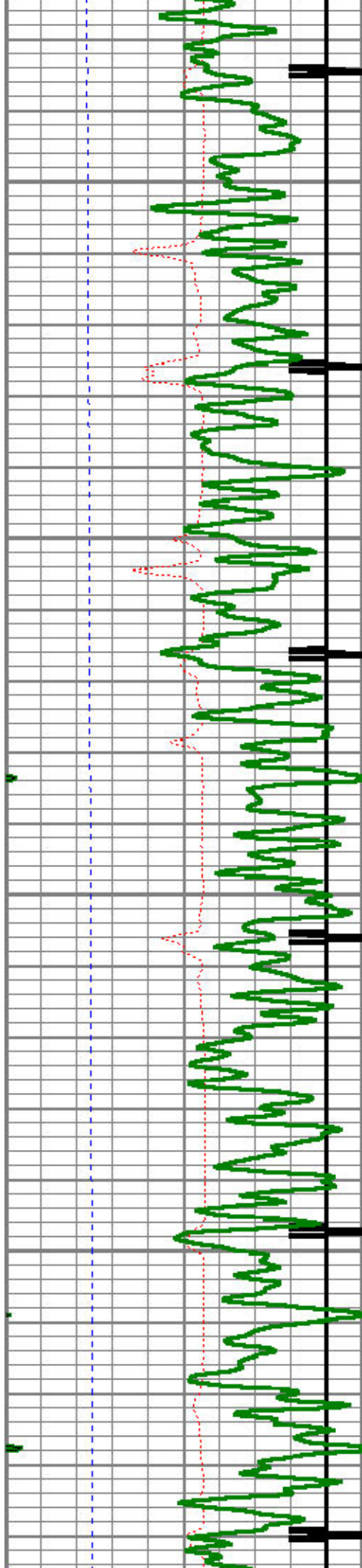
2000

2050

2100

2150



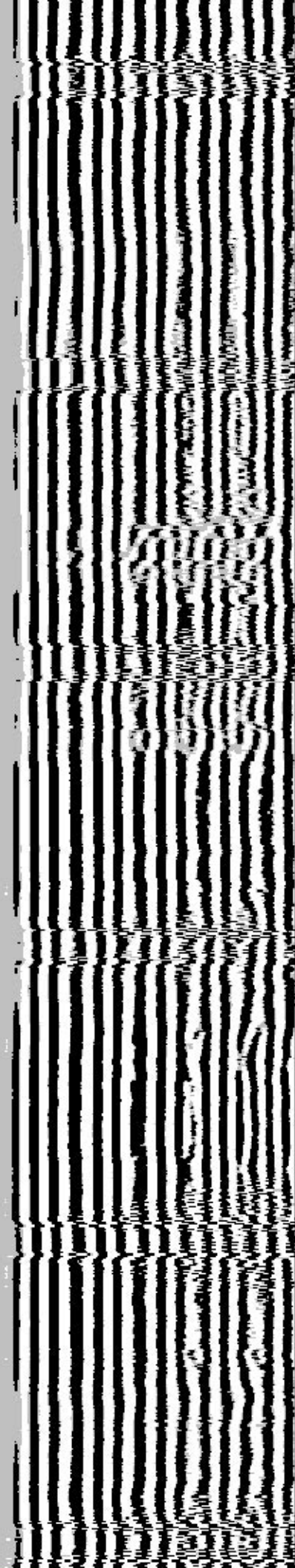
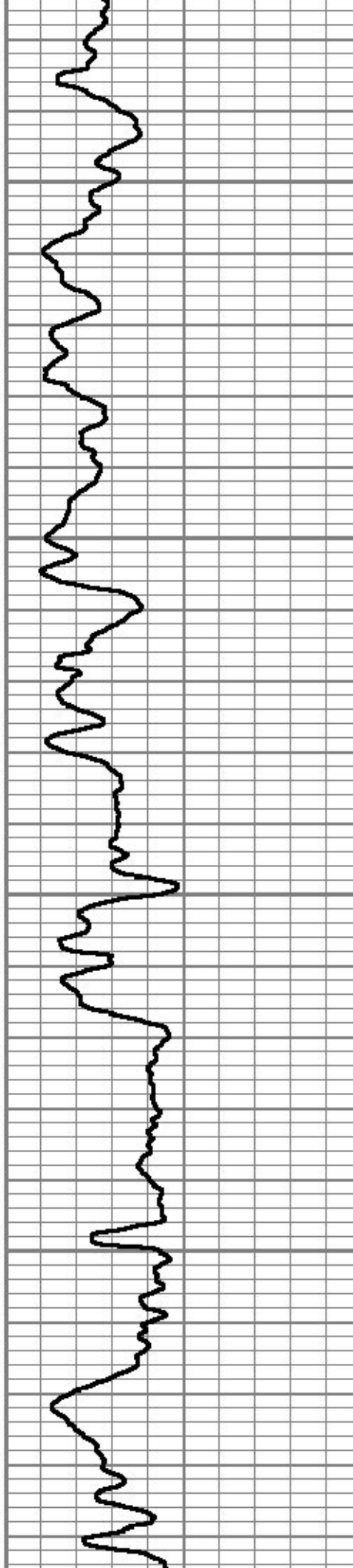


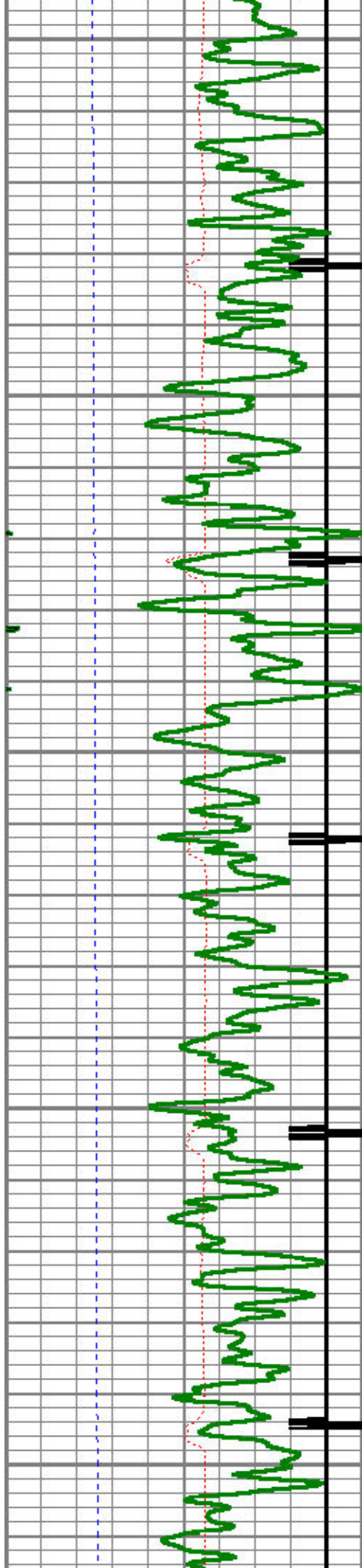
2200

2250

2300

2350





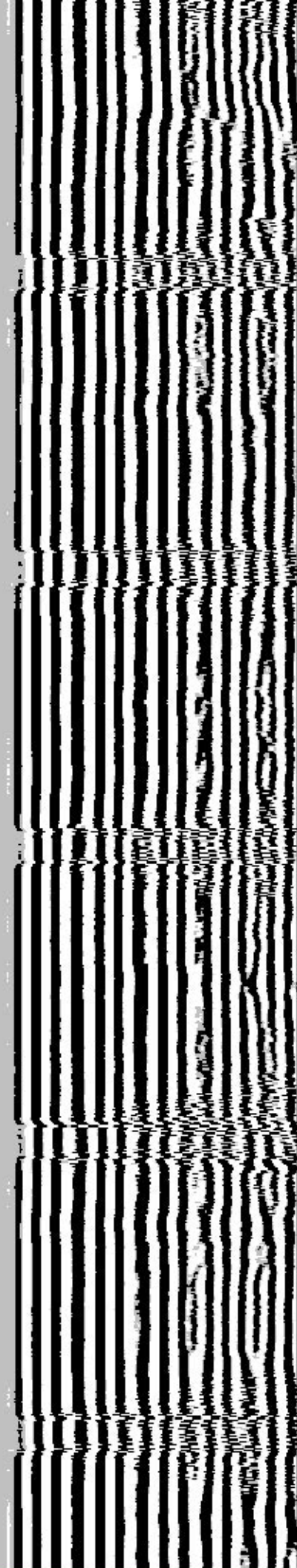
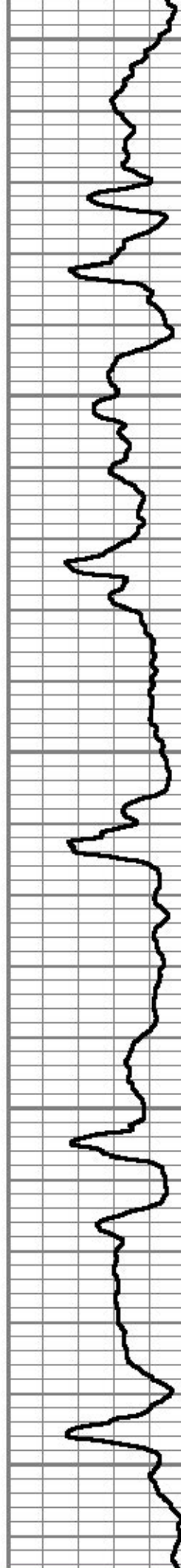
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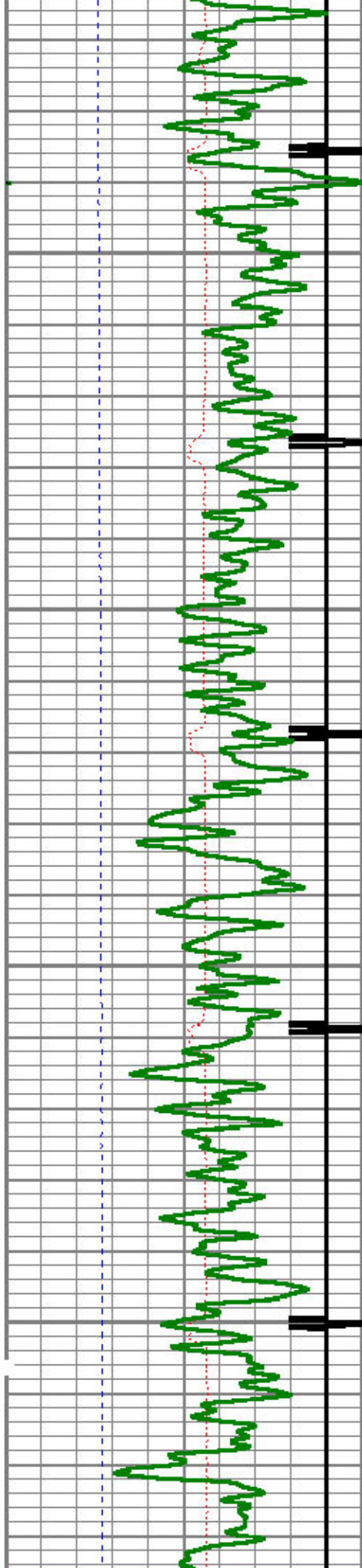
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2500

2550

2600



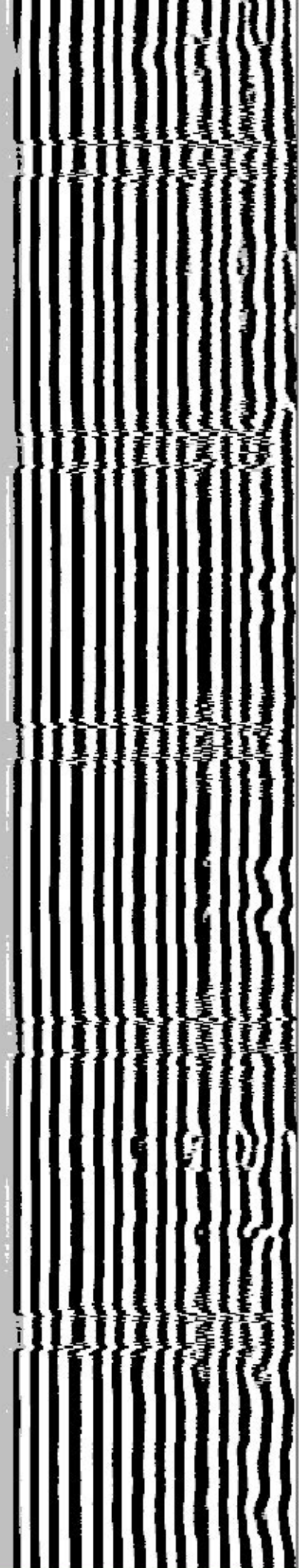
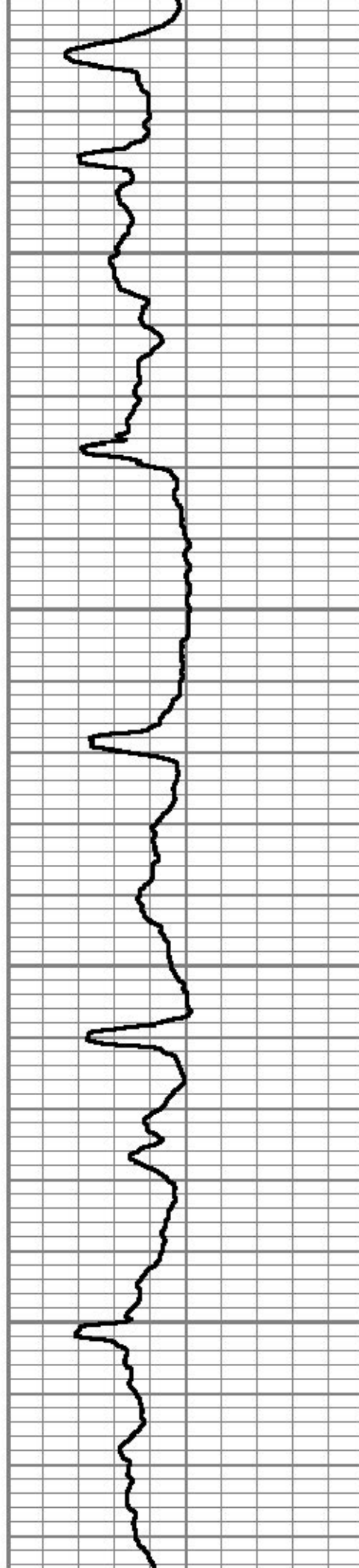


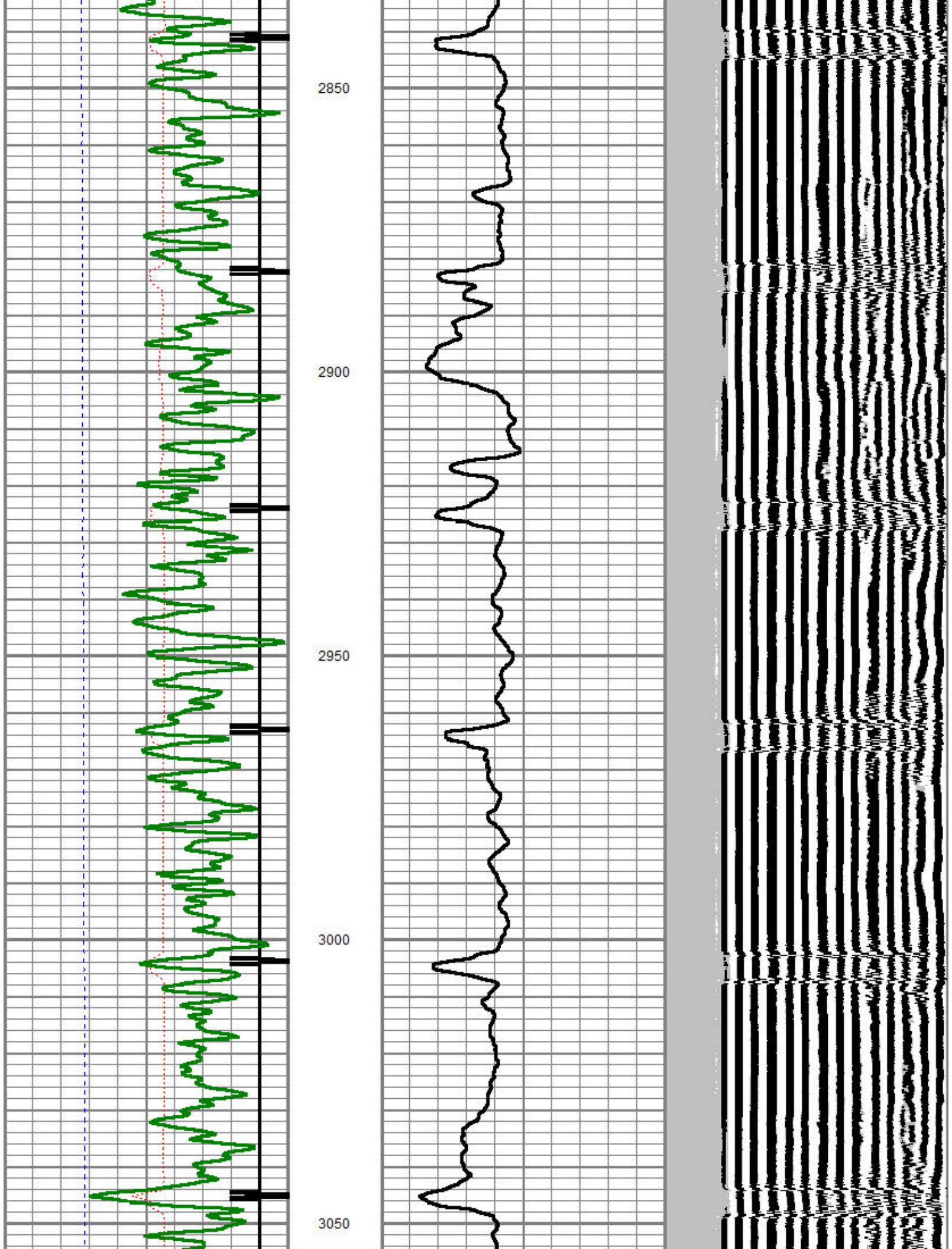
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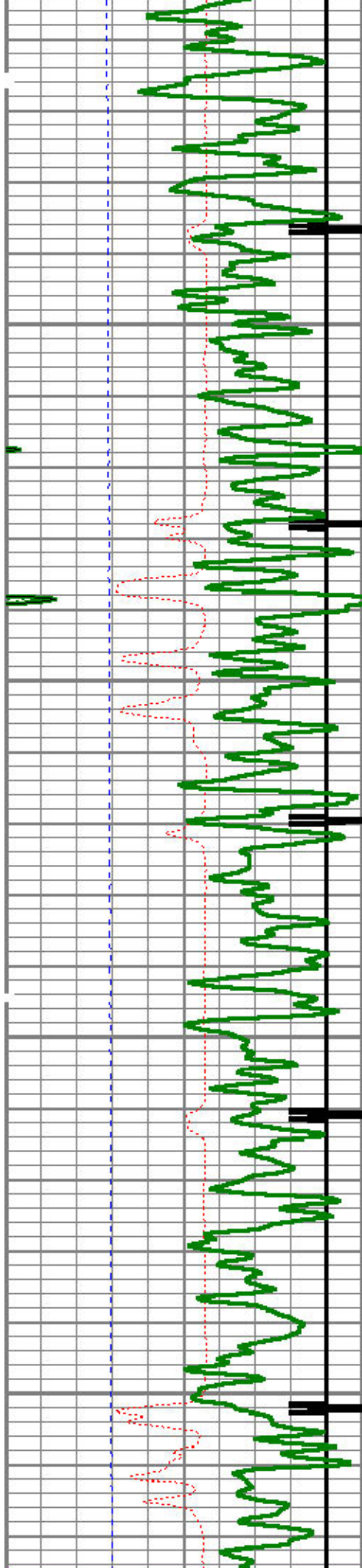
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2750

2800





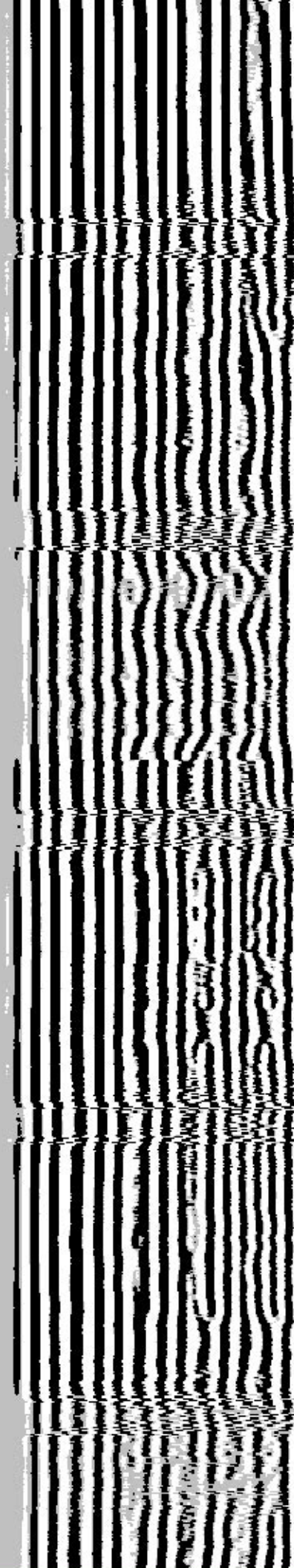
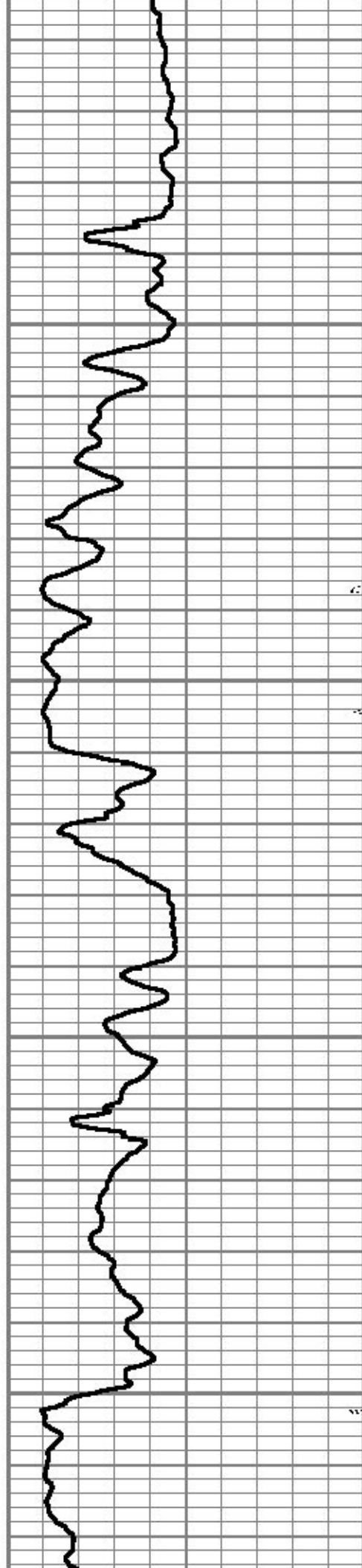


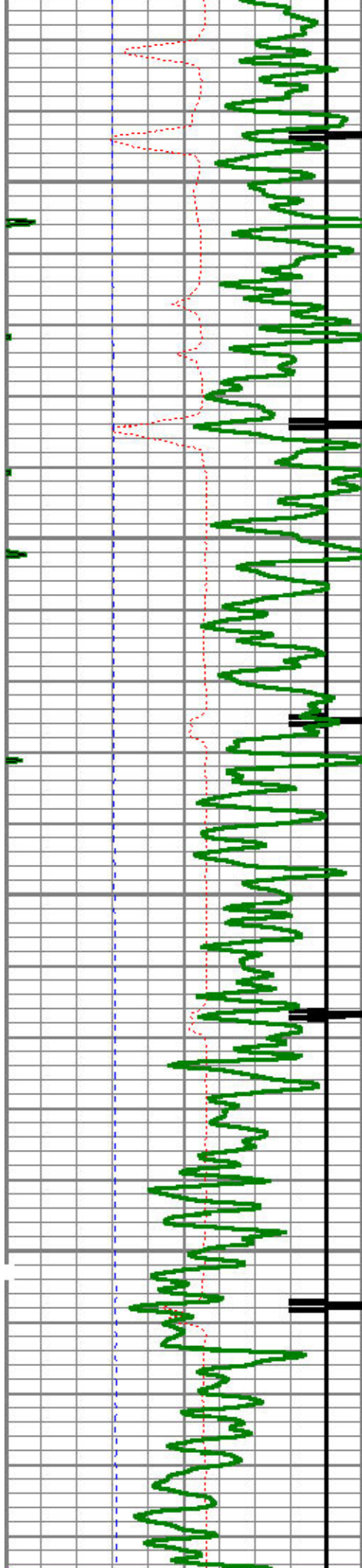
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3150

3200

3250



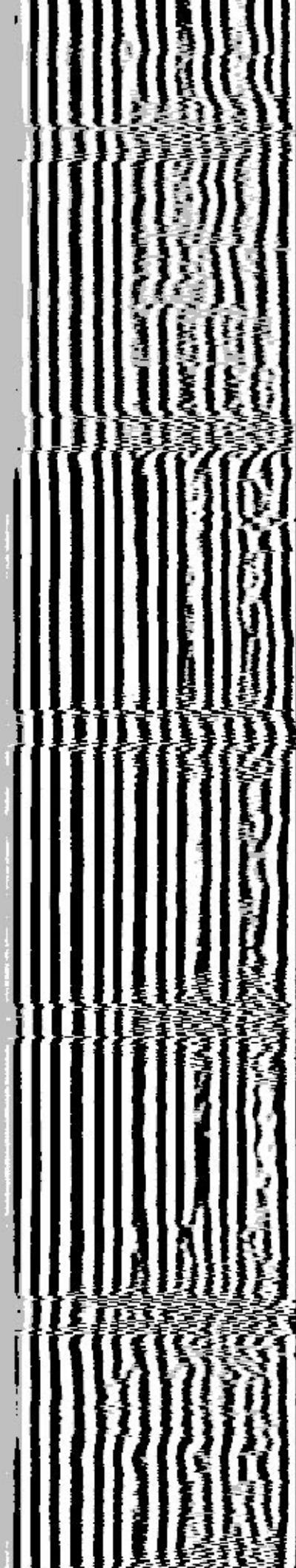
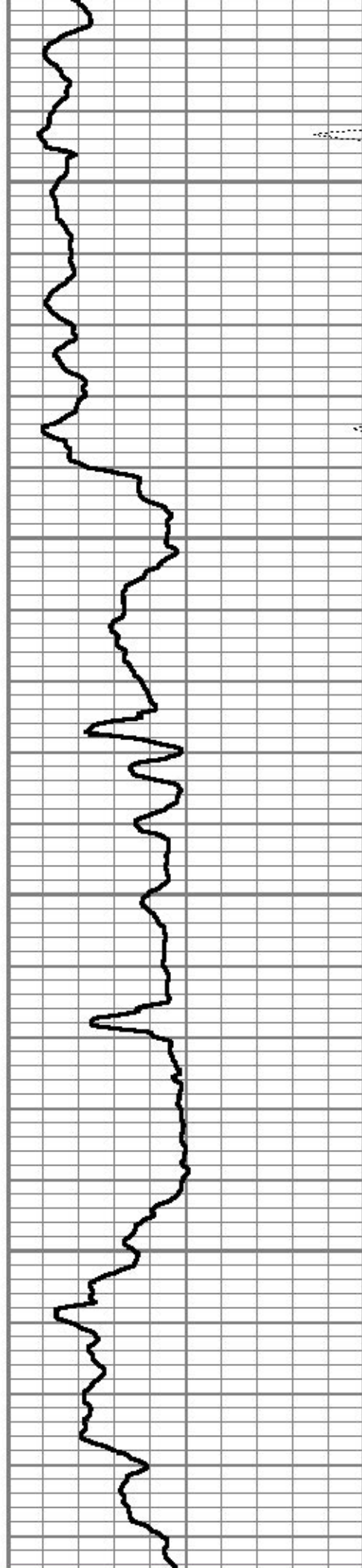


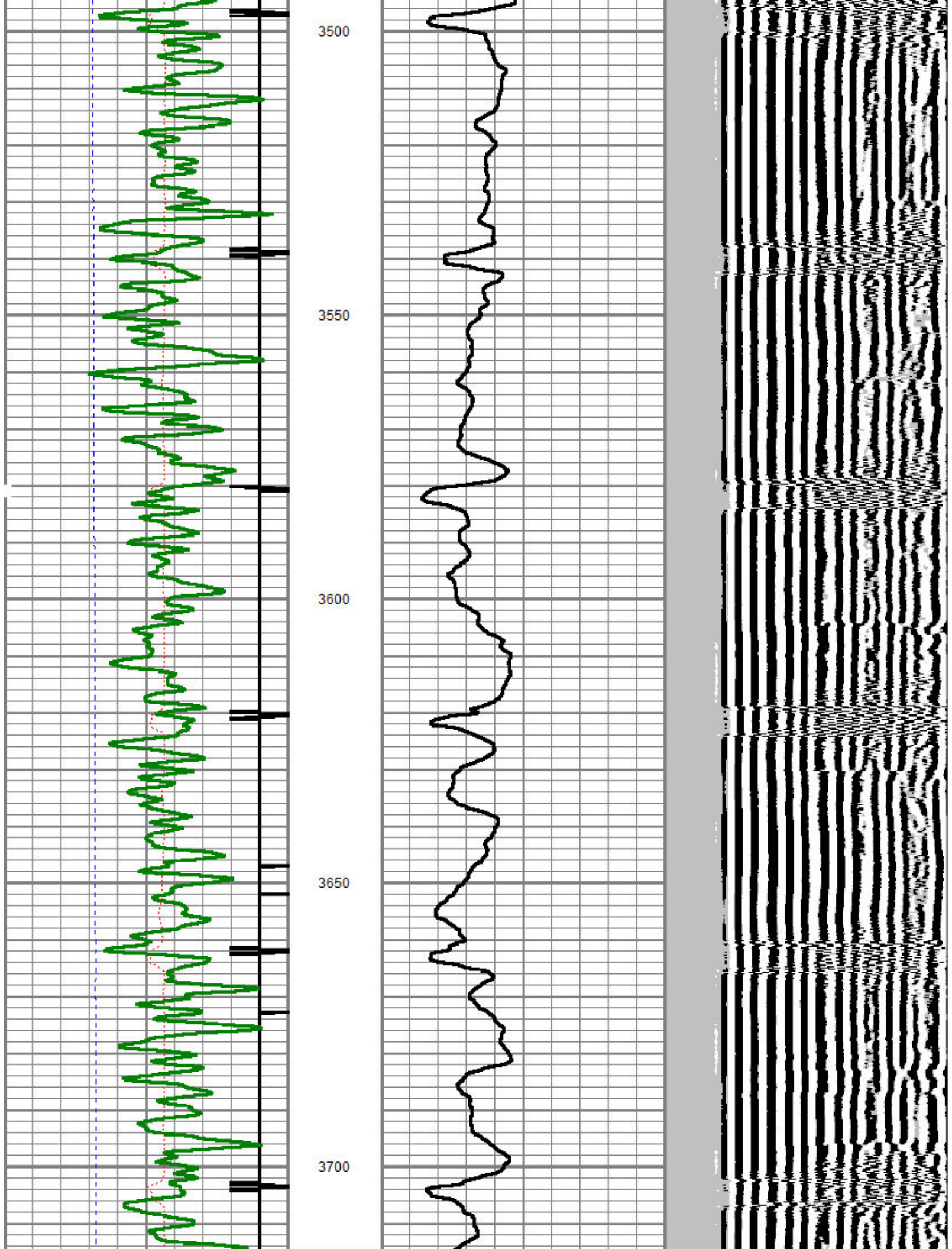
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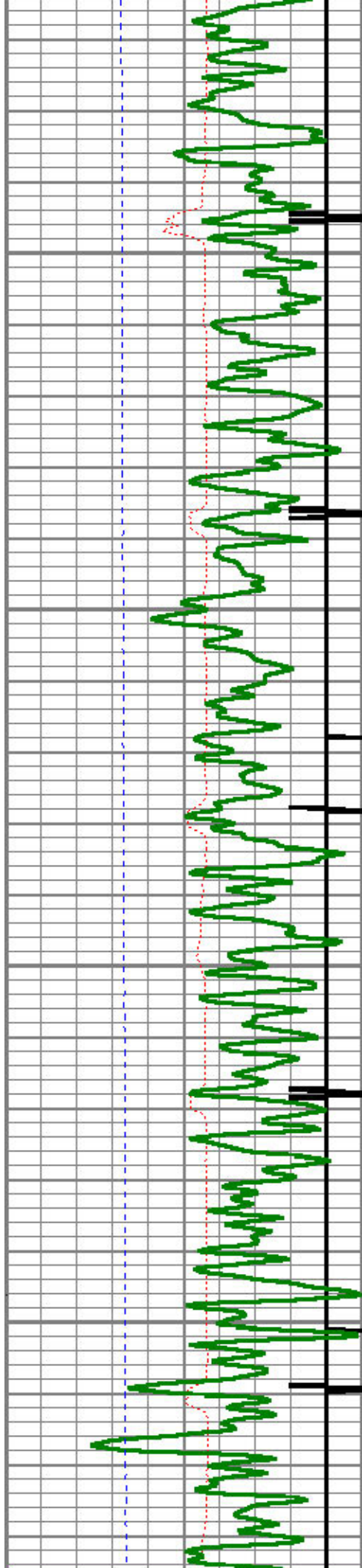
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3450





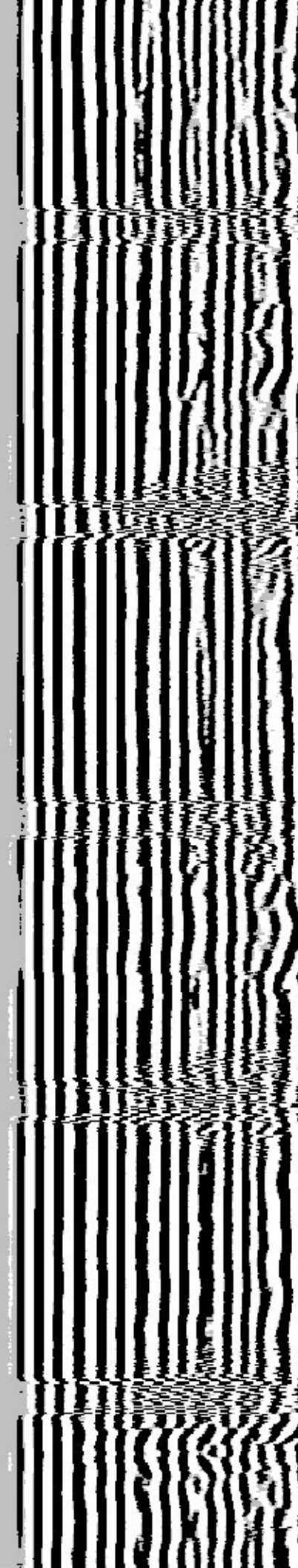
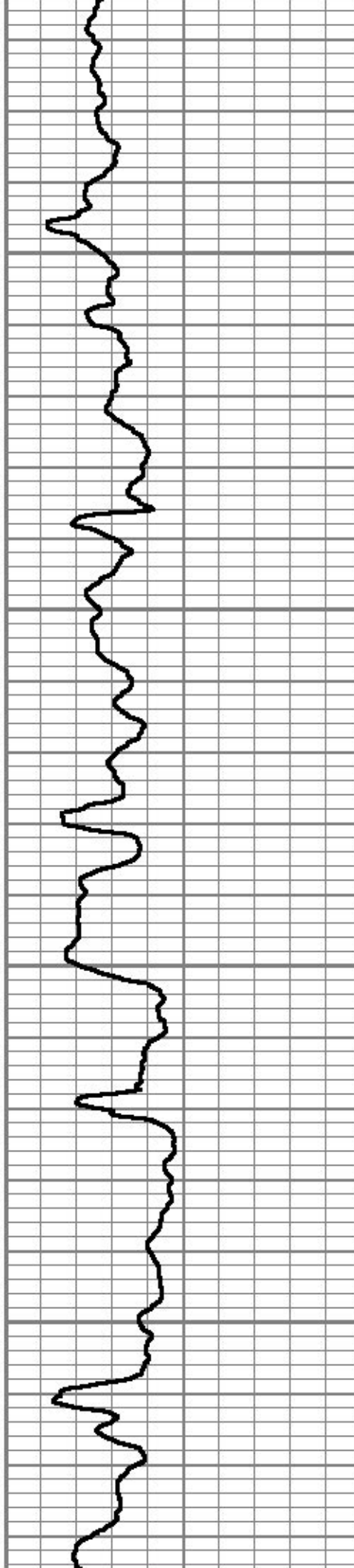


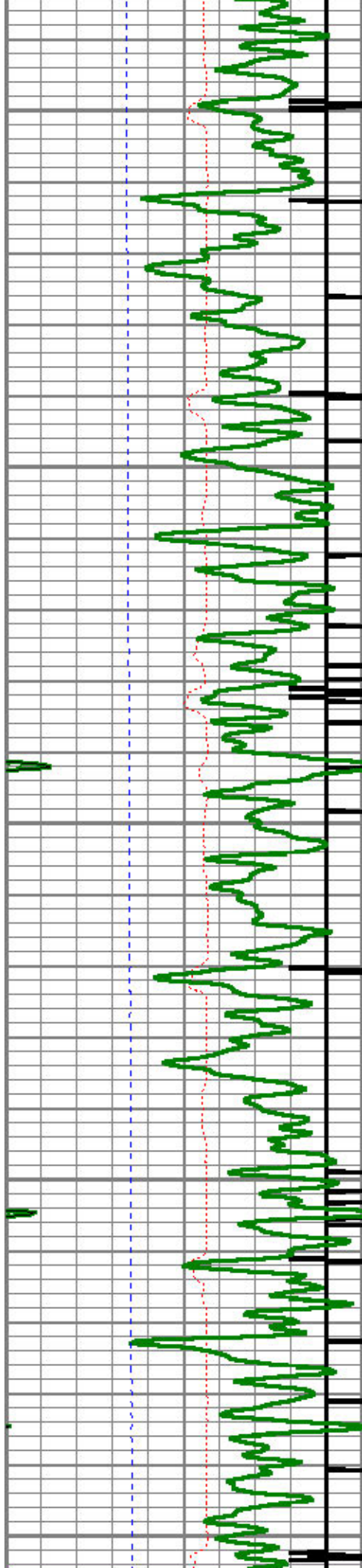
3750

3800

3850

3900





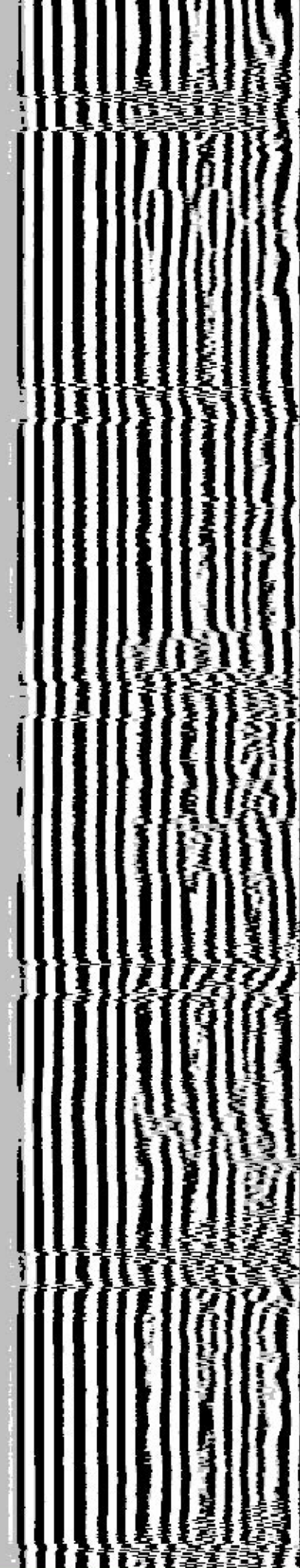
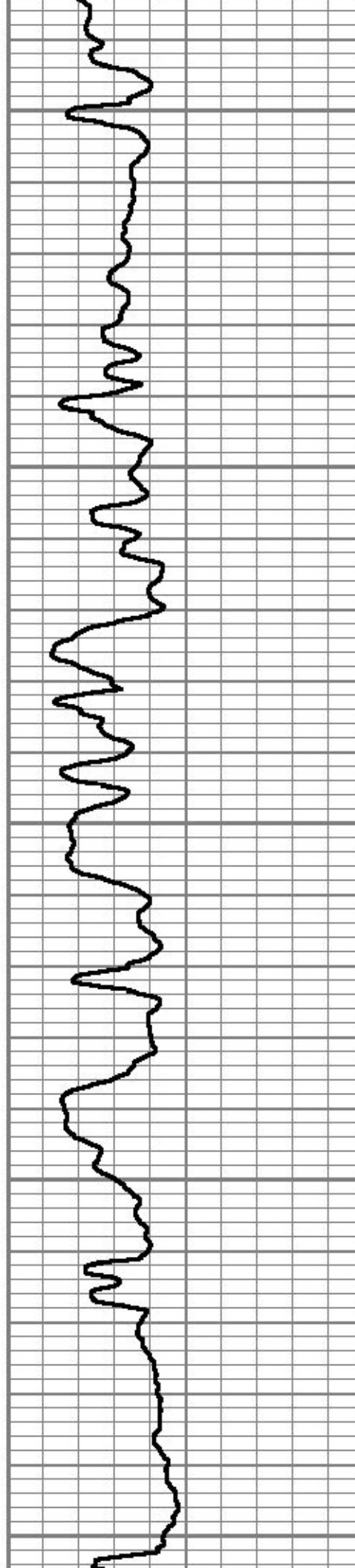
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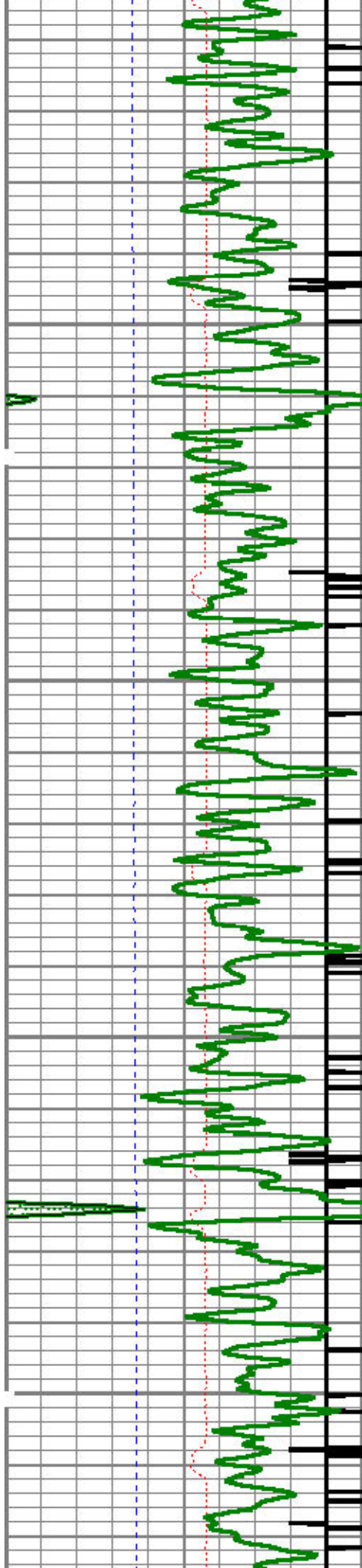
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4050

4100

4150



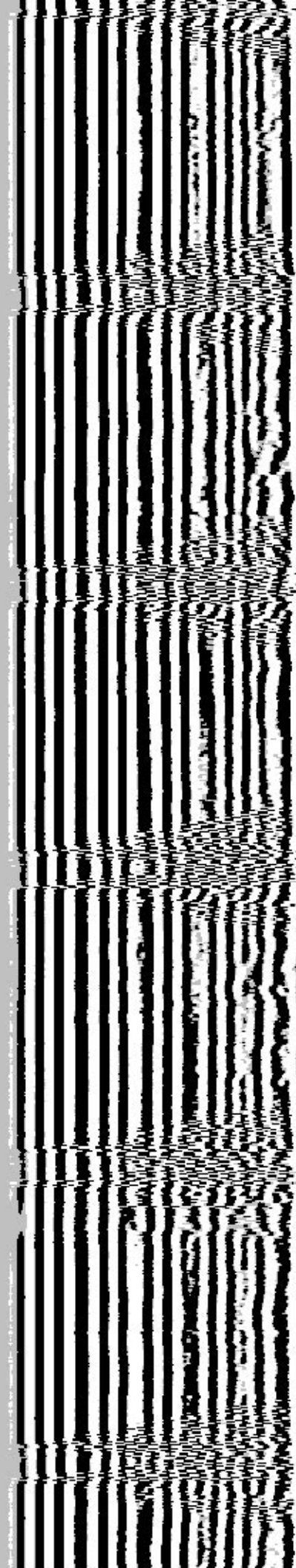
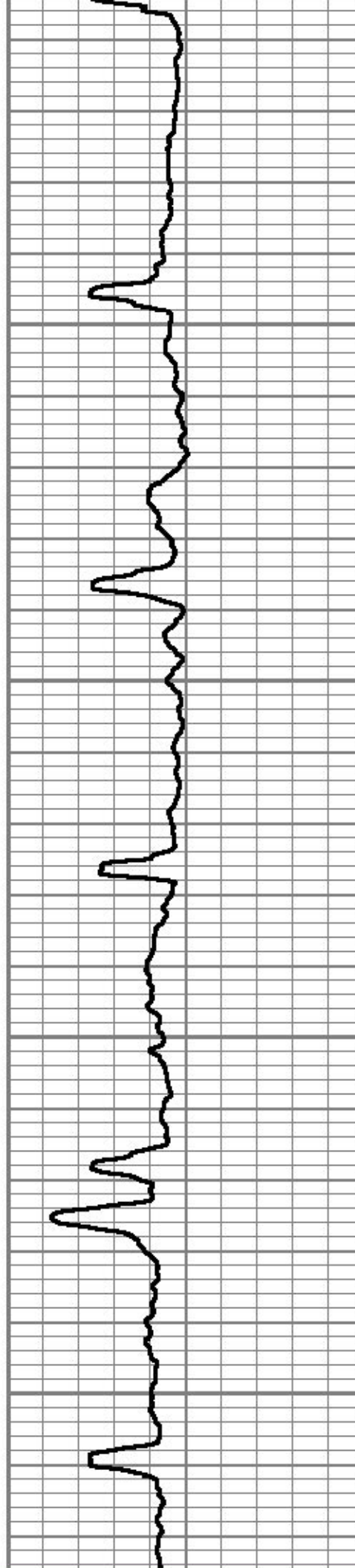


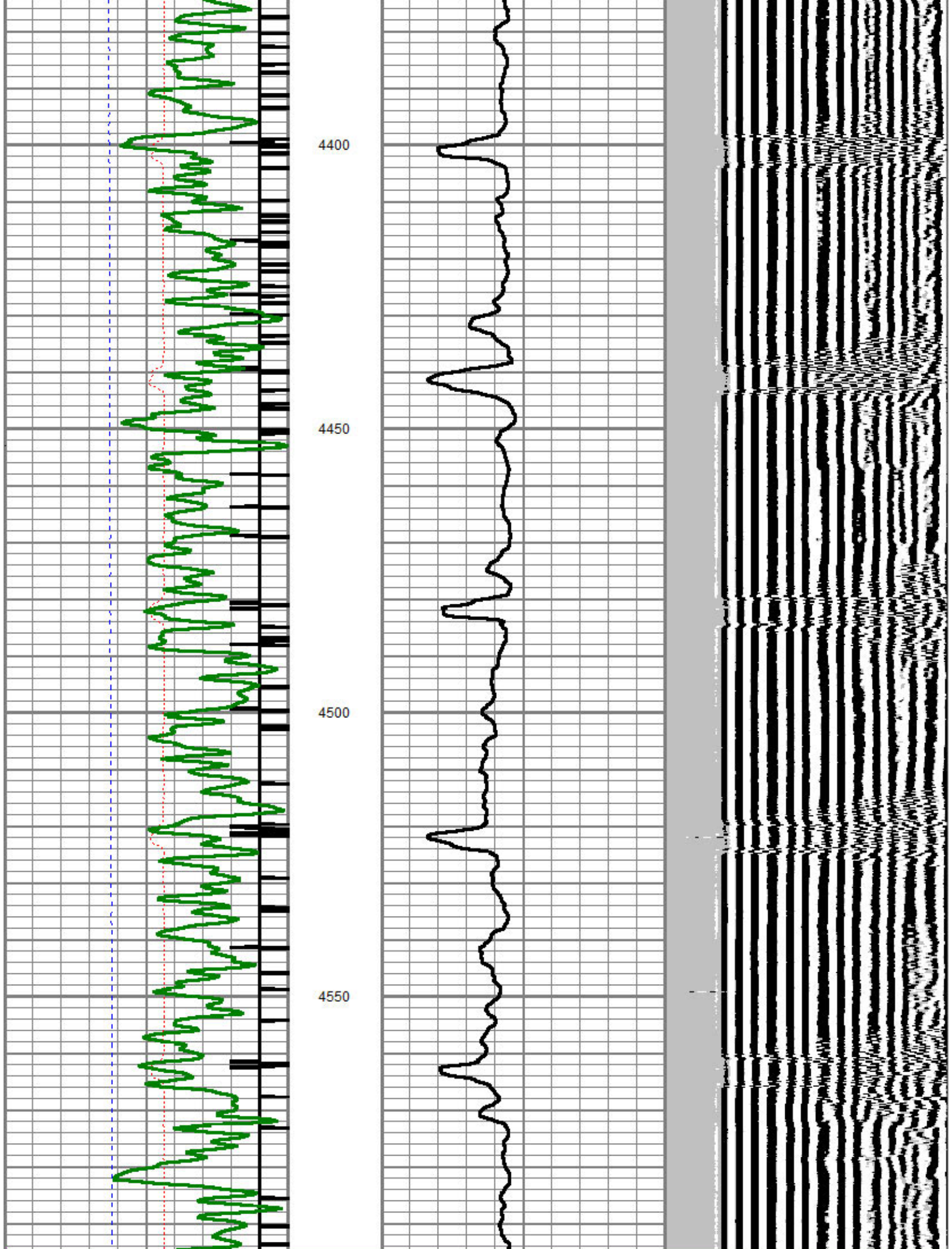
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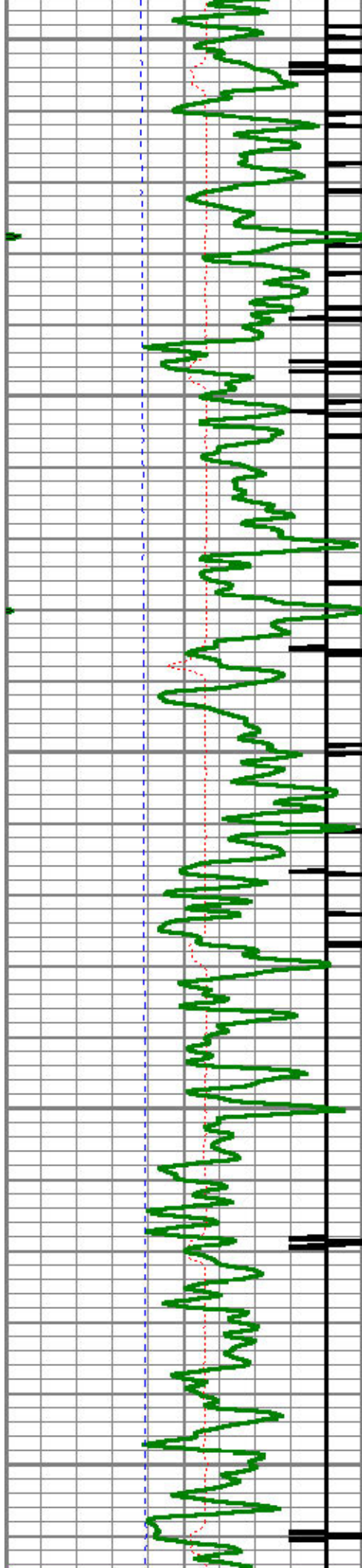
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4300

4350







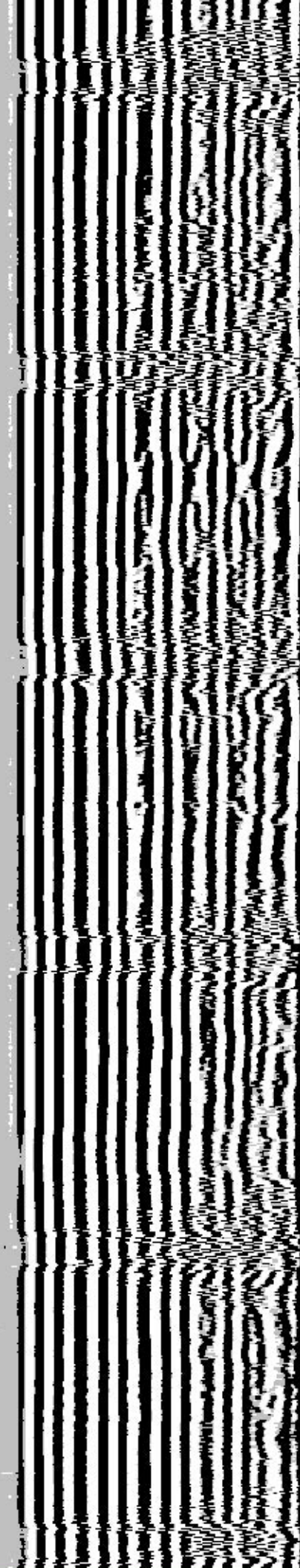
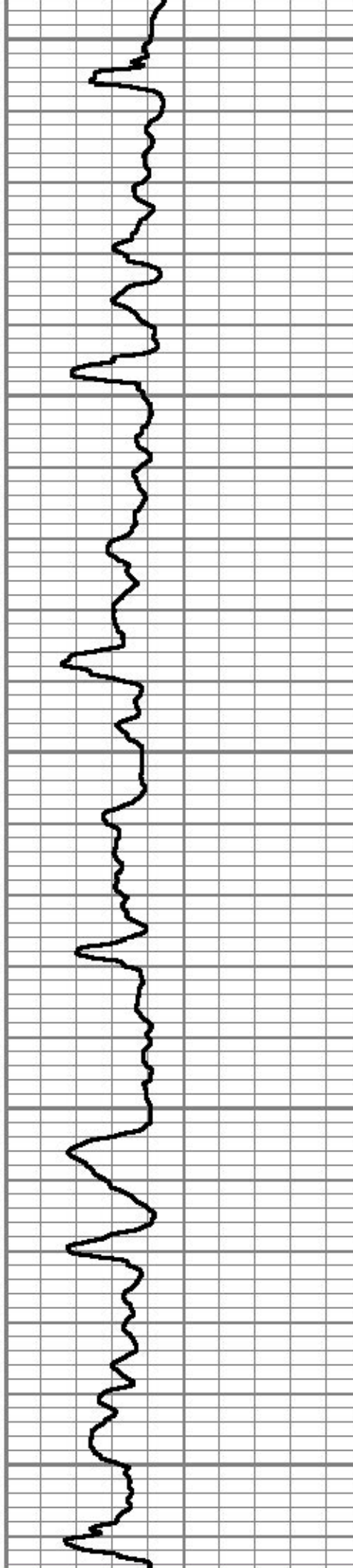
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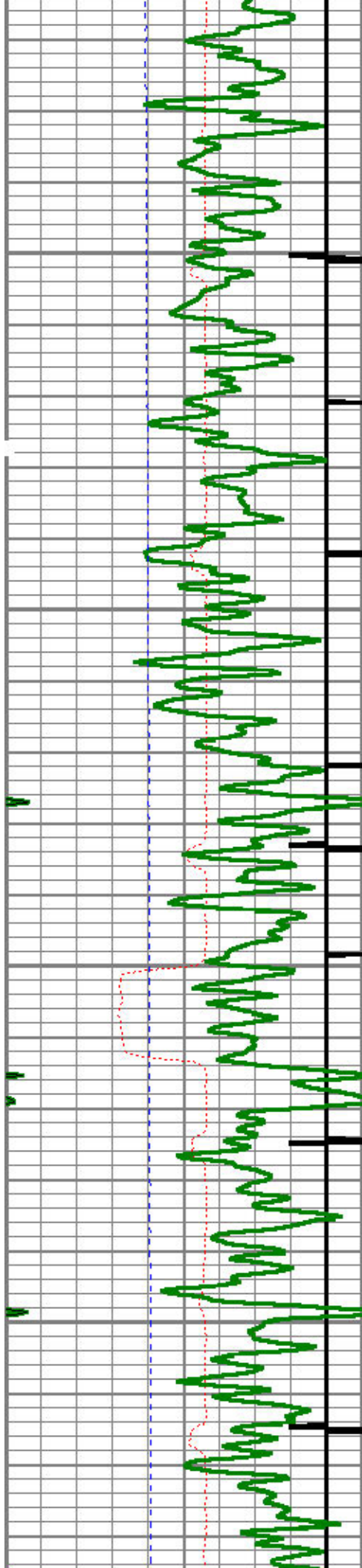
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4700

4750

4800



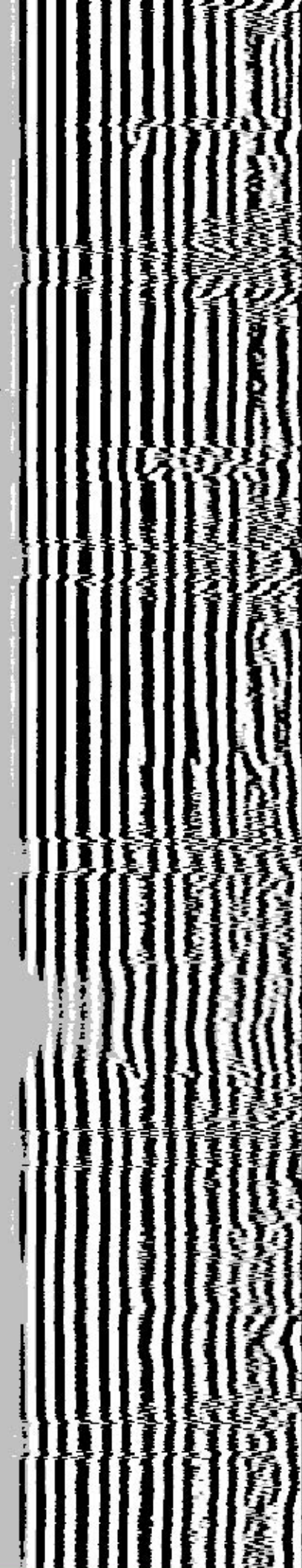
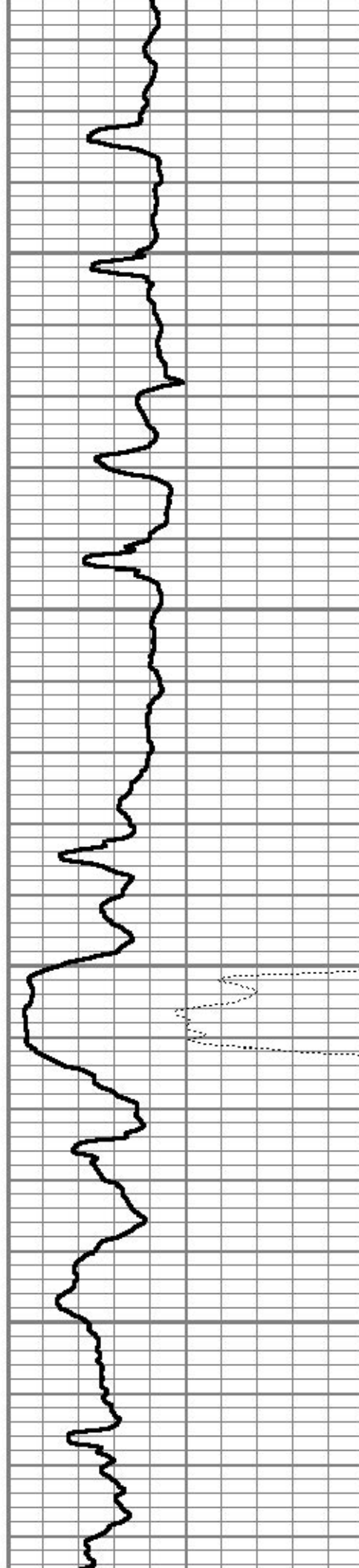


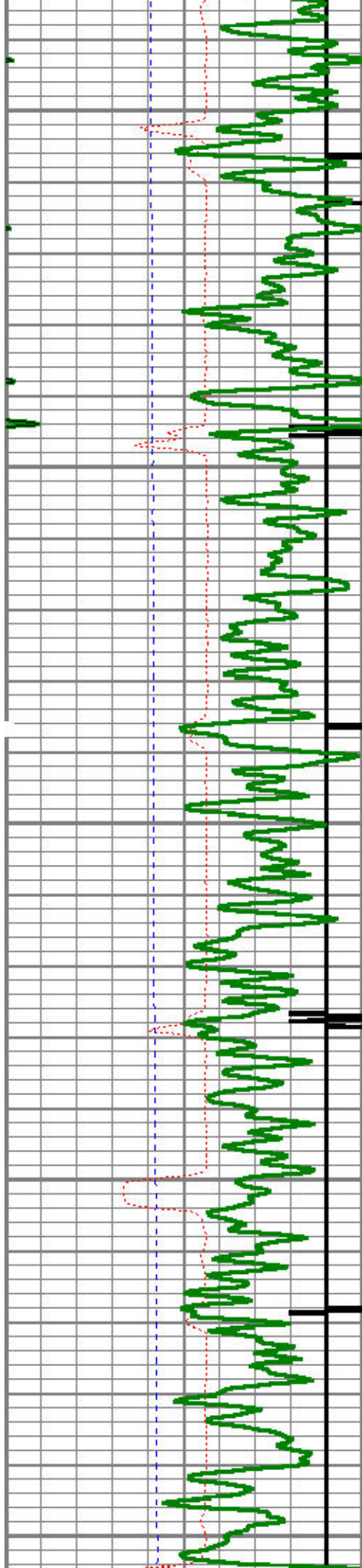
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4900

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5000





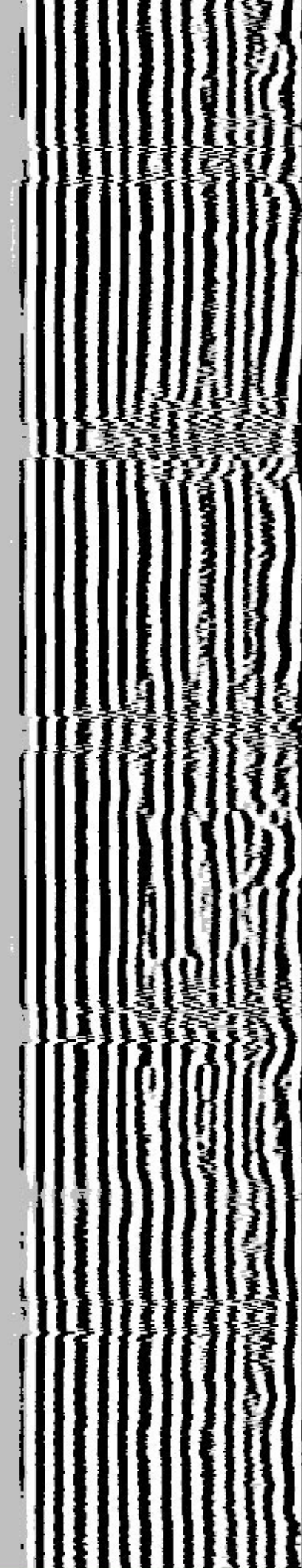
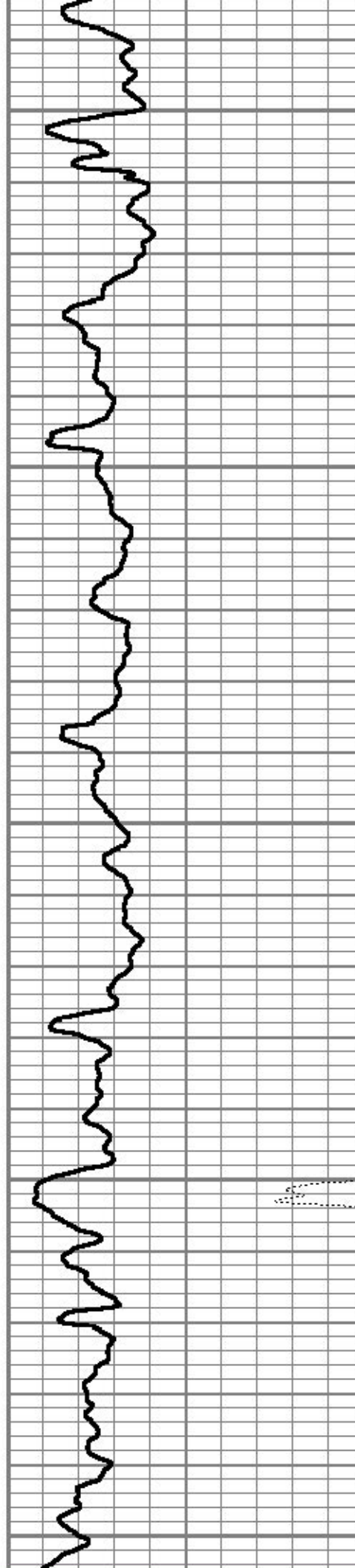
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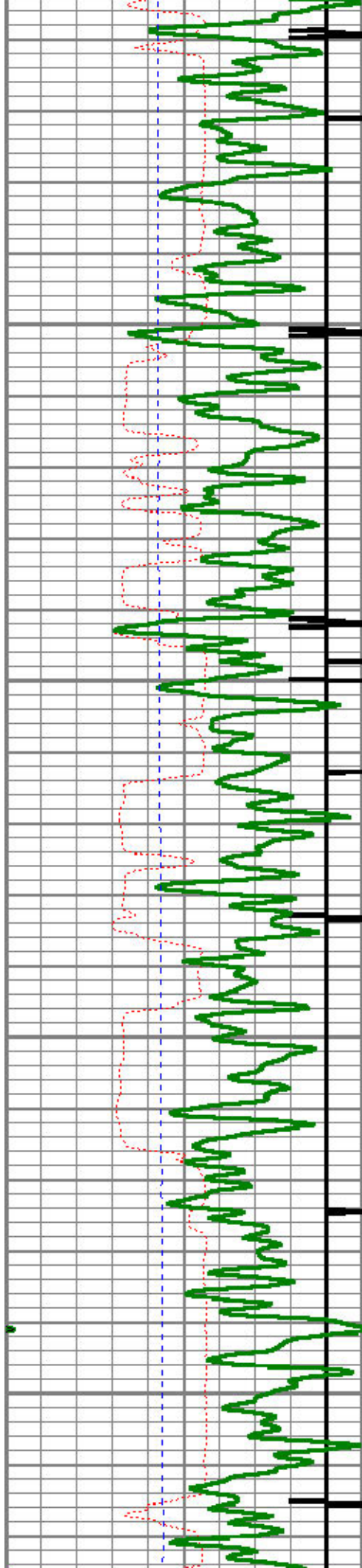
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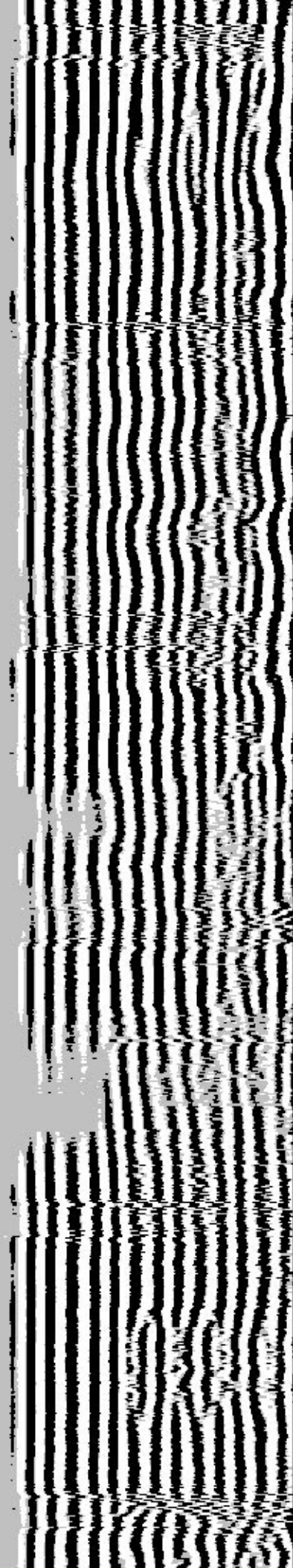
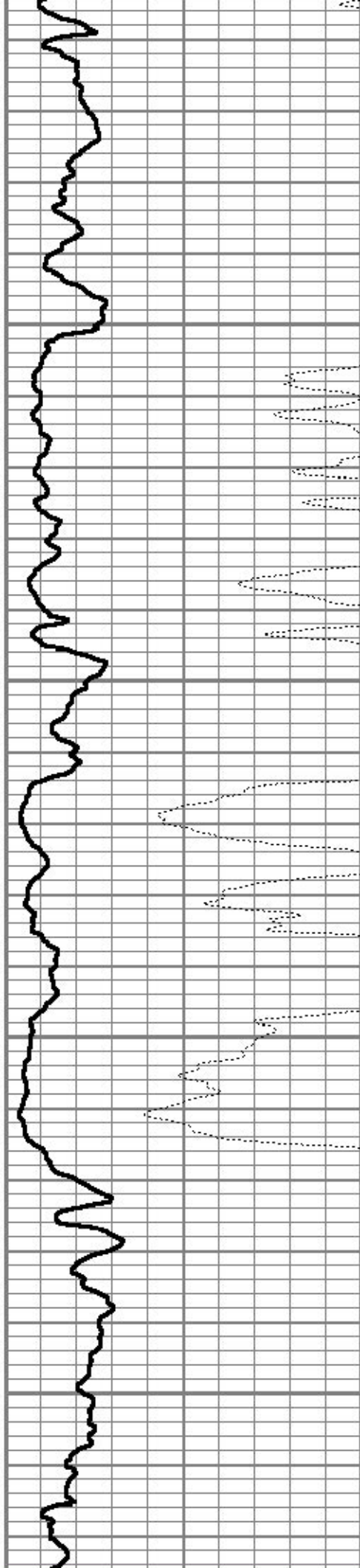


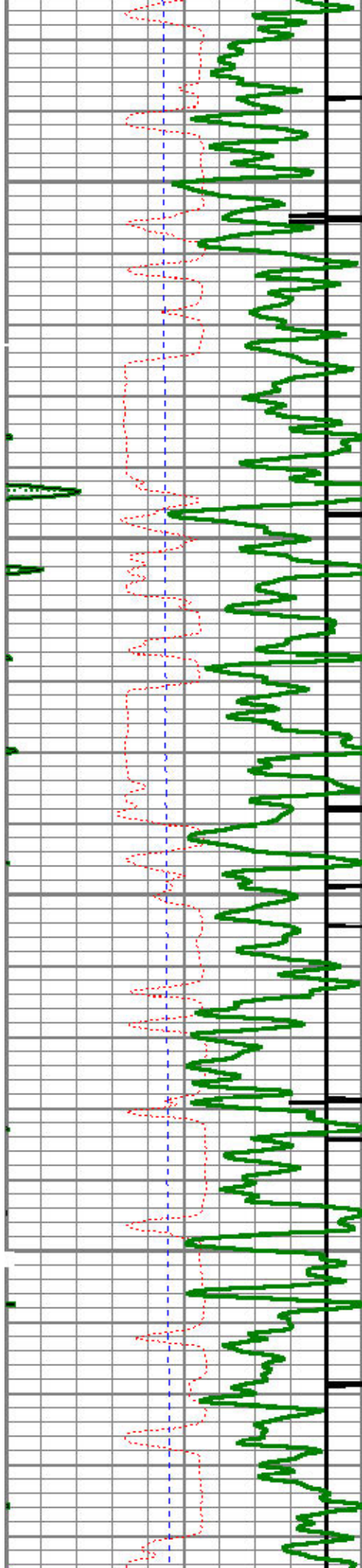
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5350

5400

5450



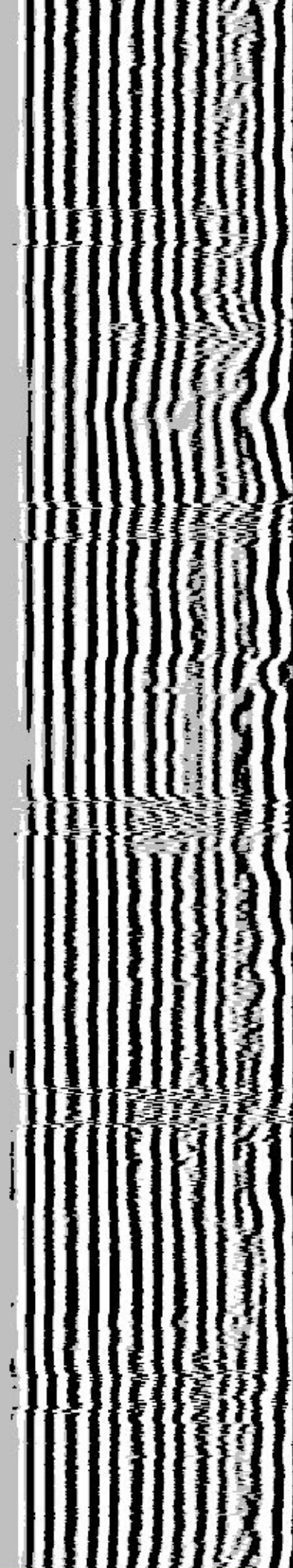
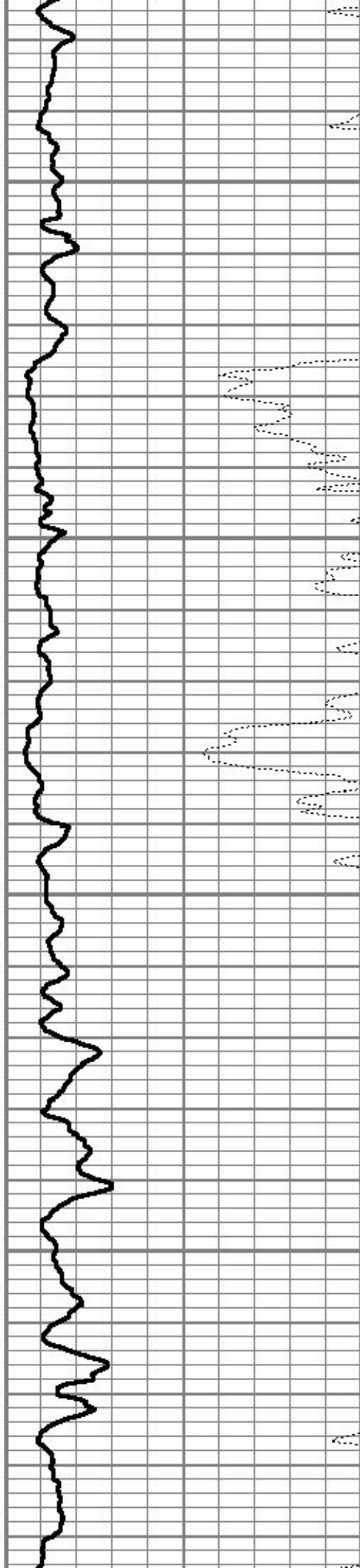


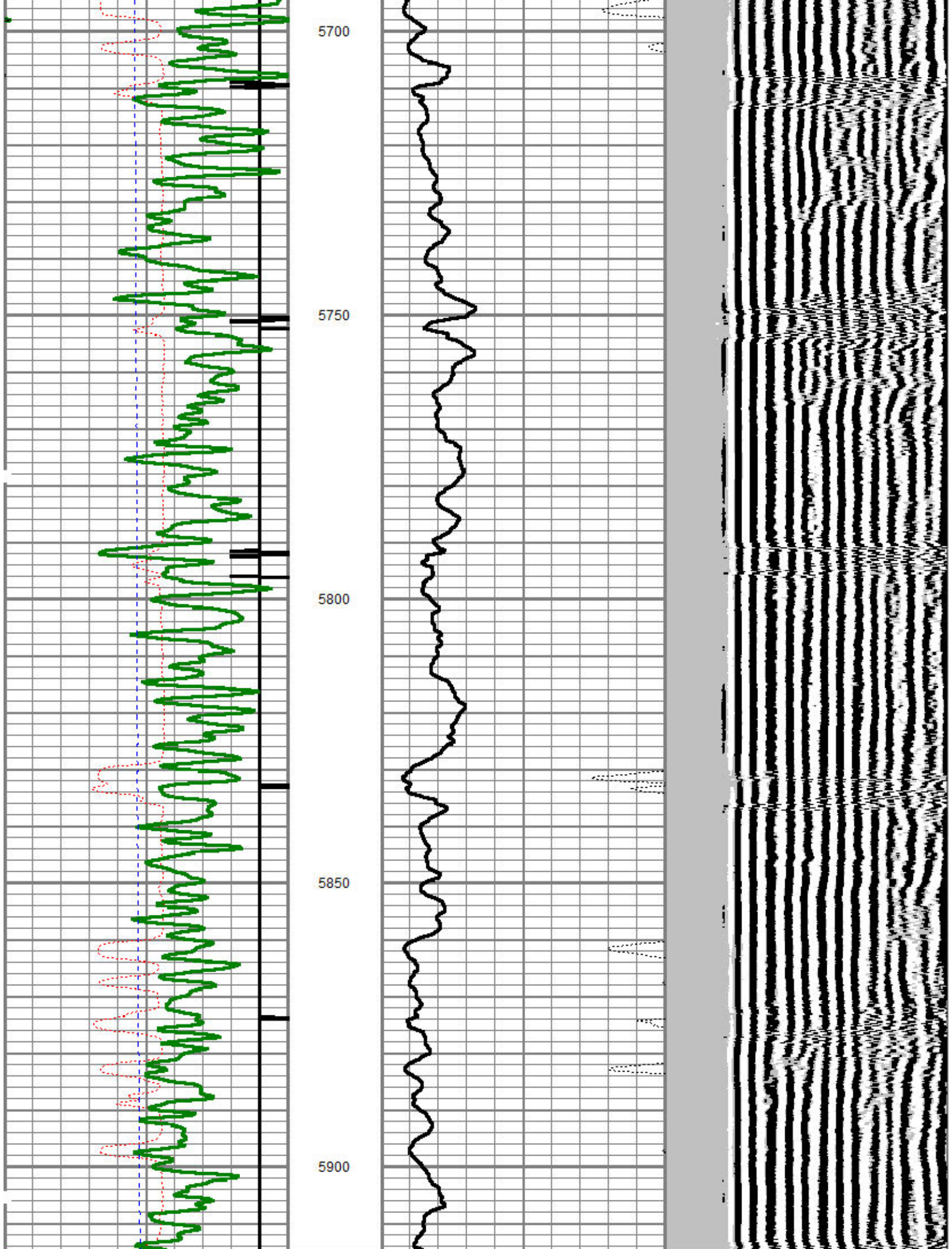
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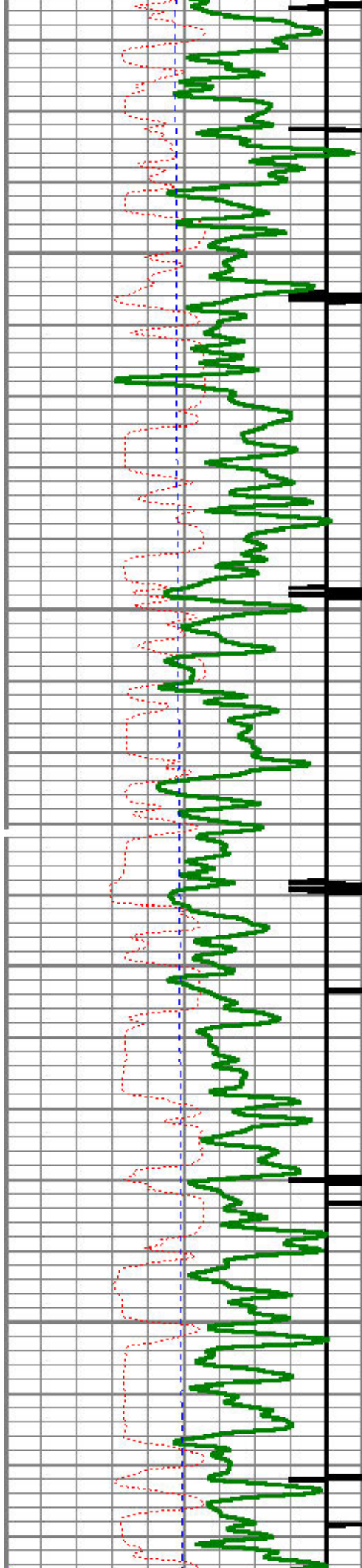
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5600

5650





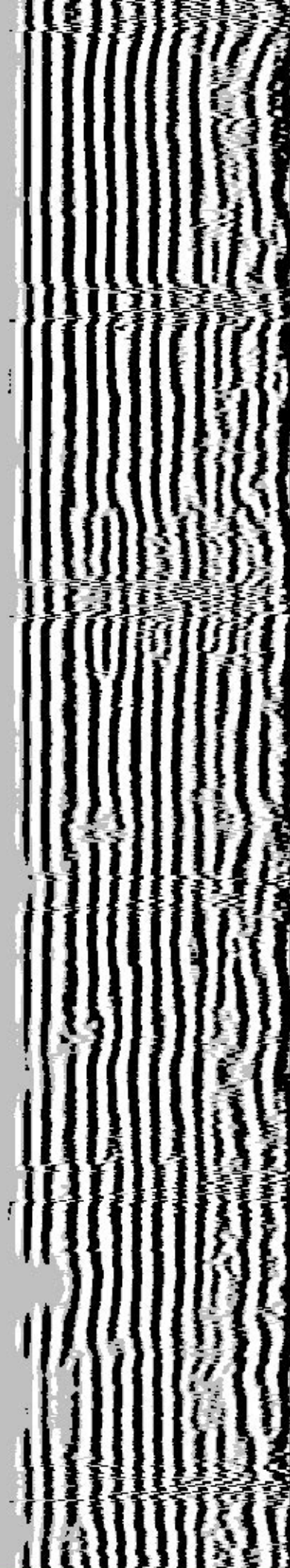
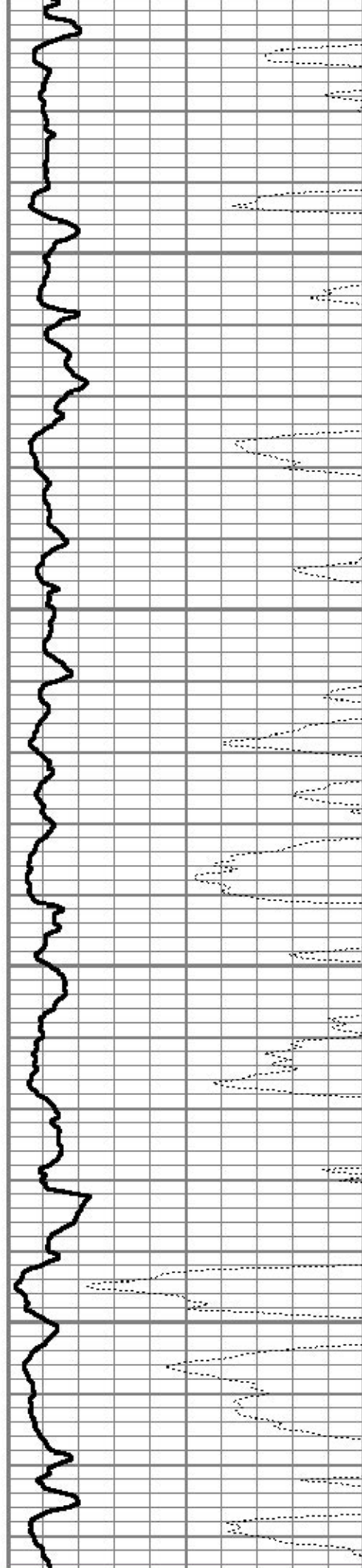


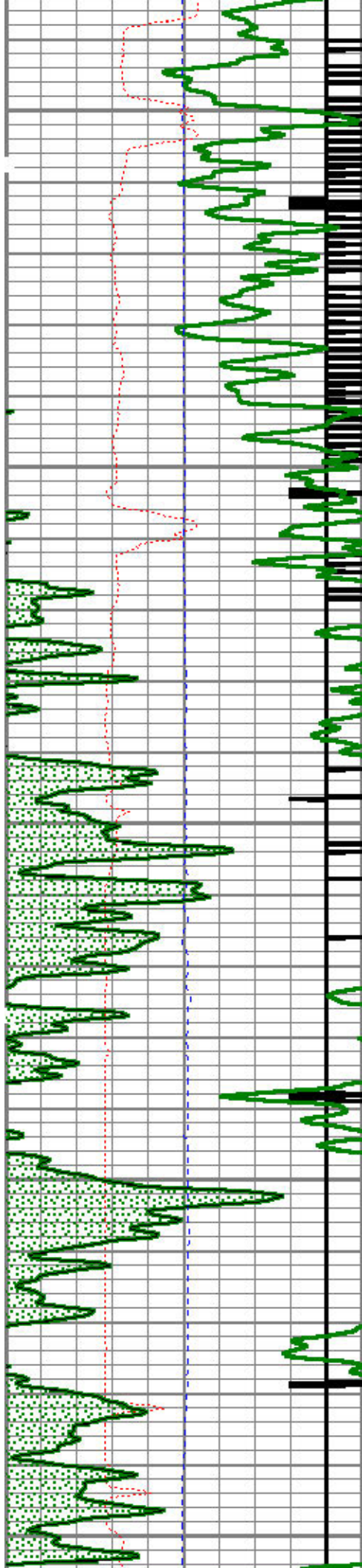
5950

6000

6050

6100





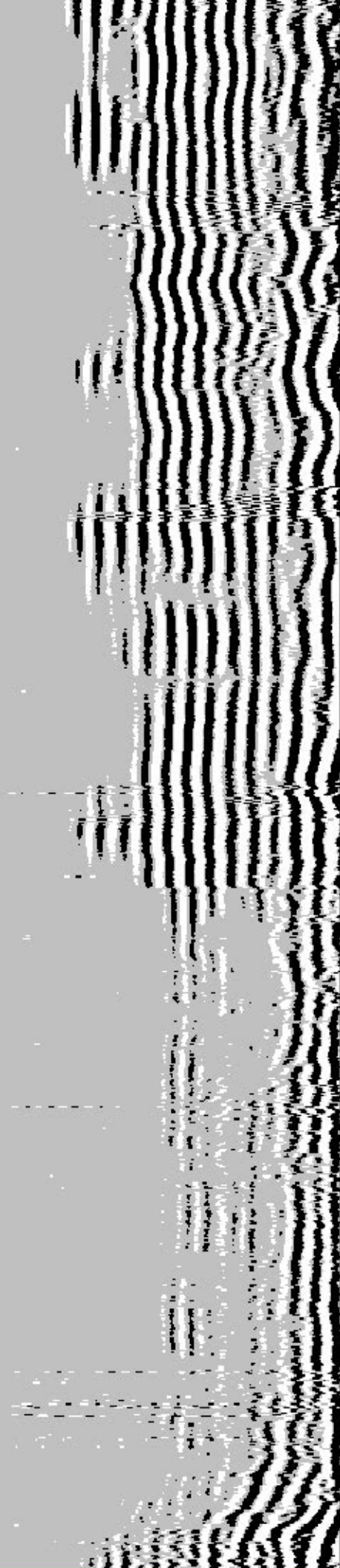
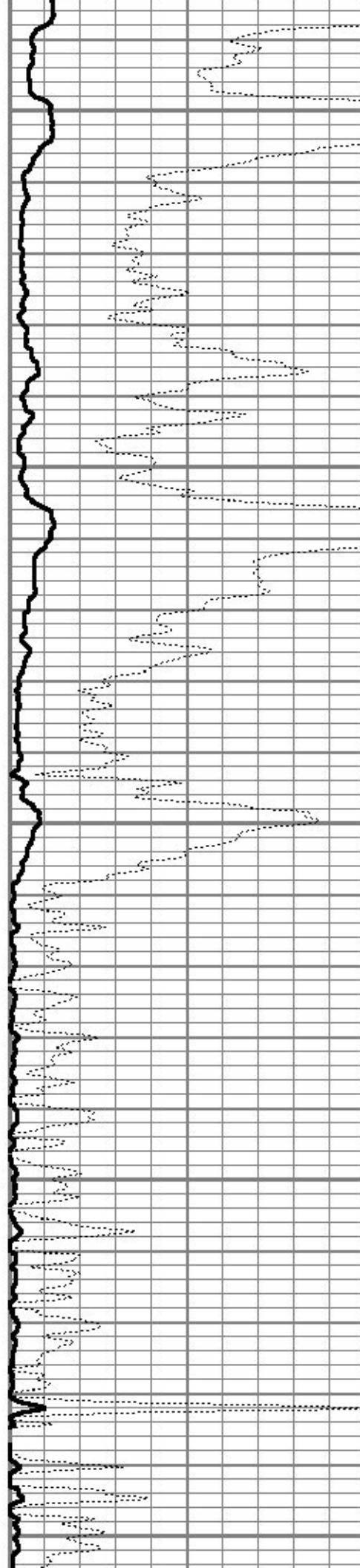
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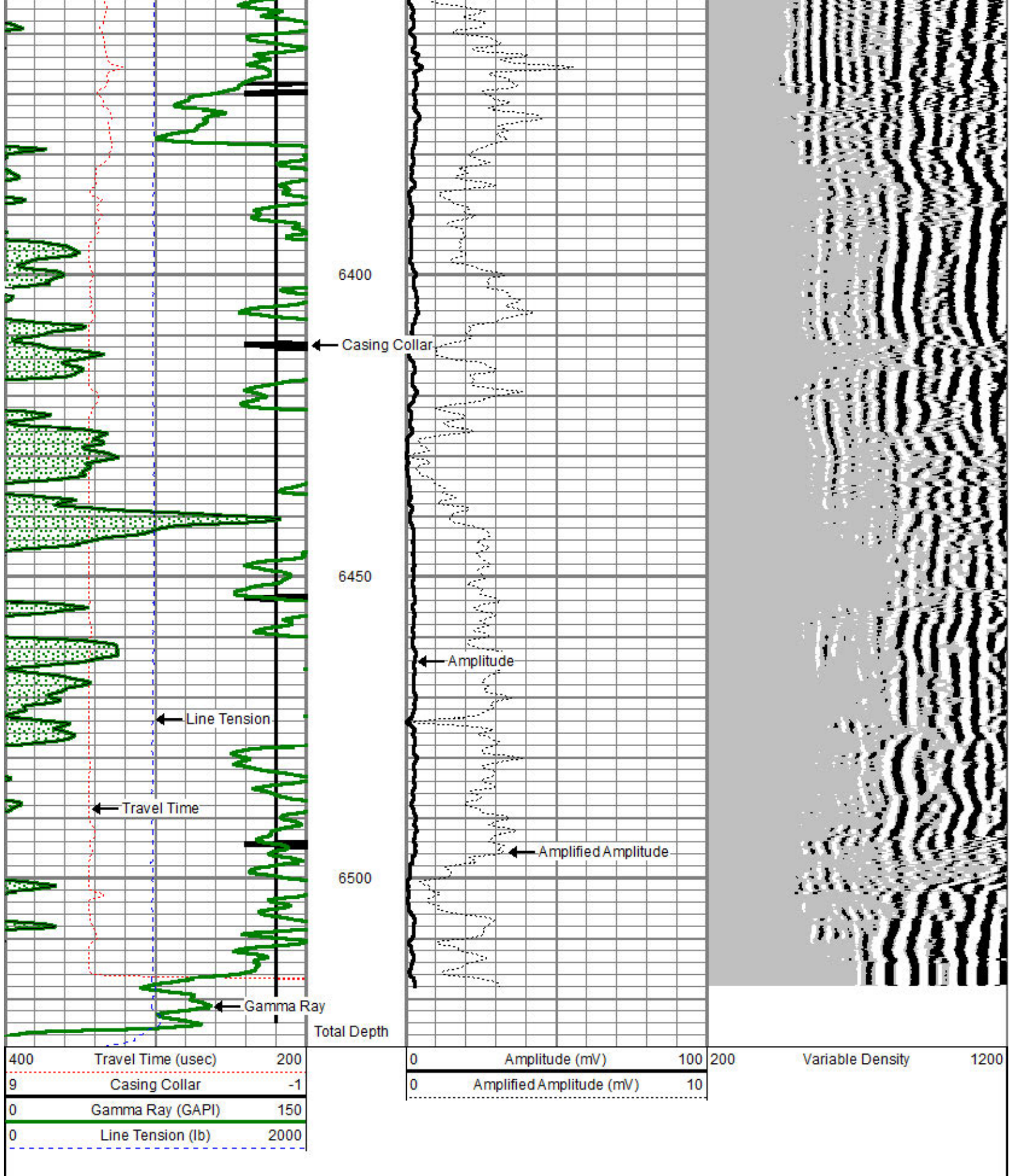
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6250

6300

6350





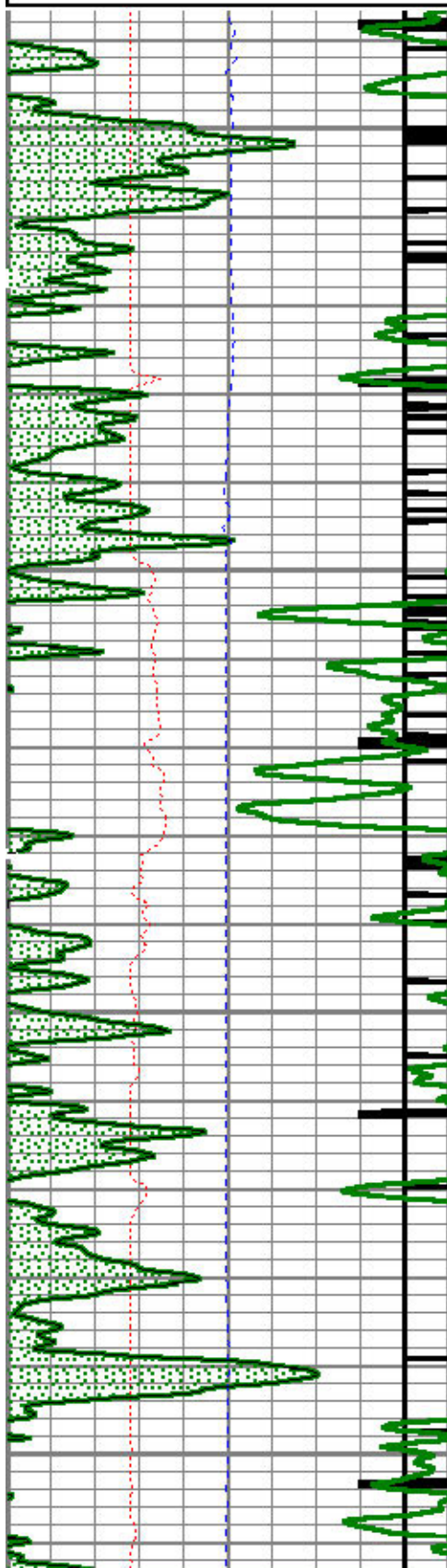
Repeat Pass w/ 0 PSI

Database File: bc - np f-j-13hnc.db
Dataset Pathname: pass2
Presentation Format: cblprobe
Dataset Creation: Fri Jan 09 18:17:36 2015 by Log 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)	2000

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

200 Variable Density 1200

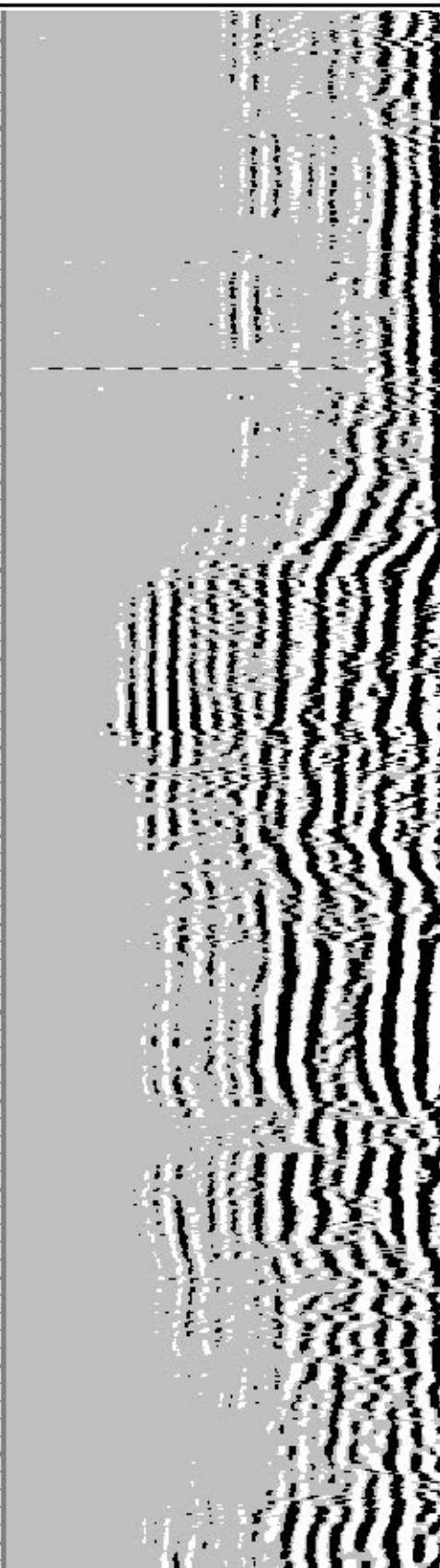
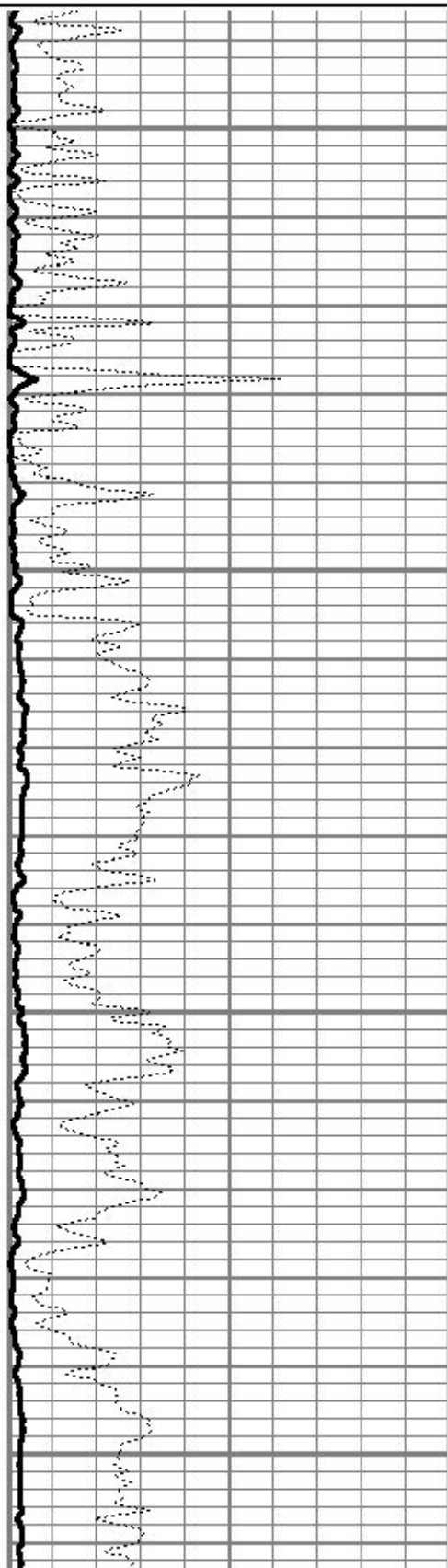


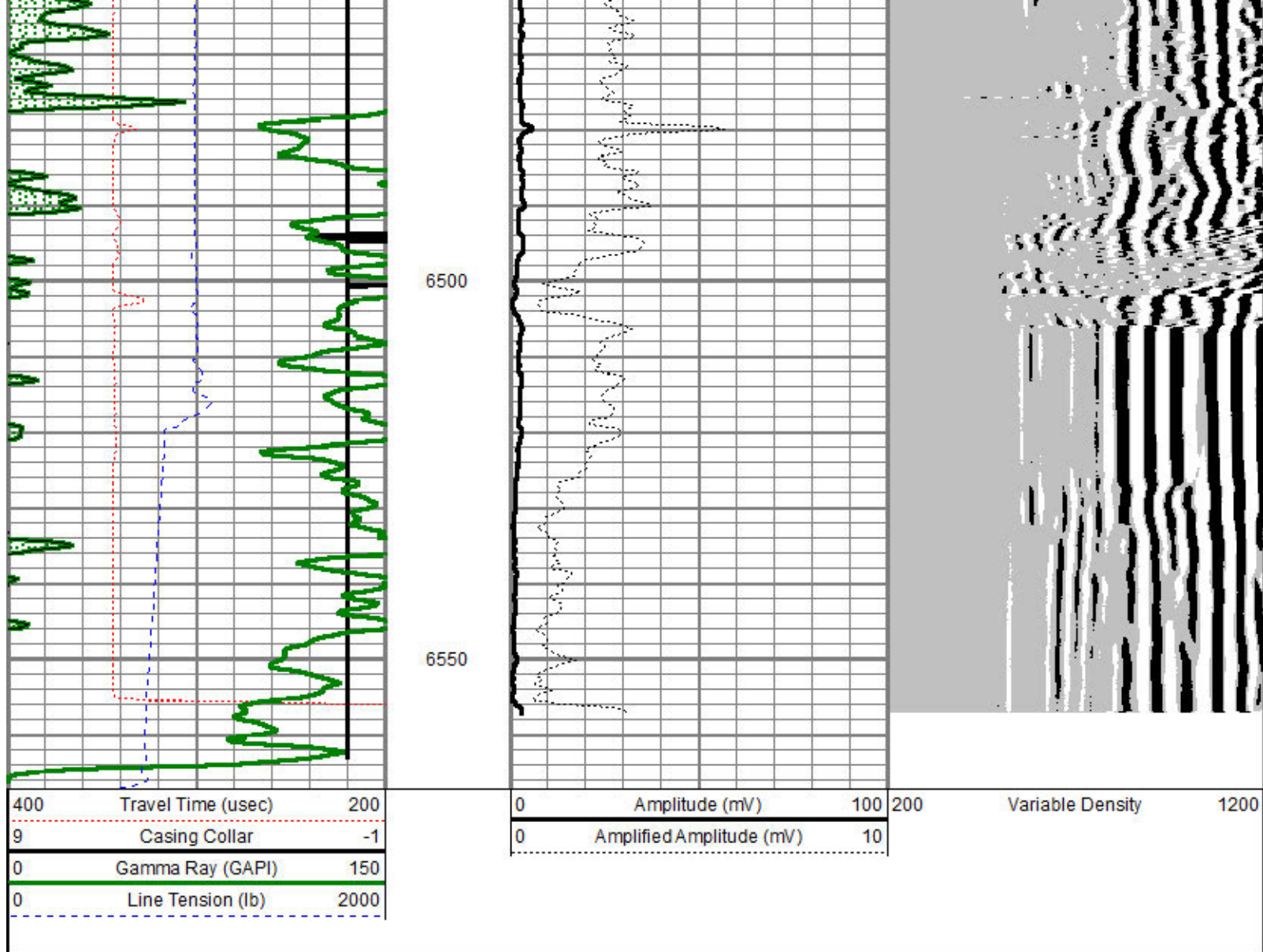
6300

6350

6400

6450





Calibration Report		
Database File:	bc - np f-j-13hnc.db	
Dataset Pathname:	pass3	
Dataset Creation:	Fri Jan 09 18:25:46 2015 by Log 0	
Gamma Ray Calibration Report		
Serial Number:	FW1408-38	
Tool Model:	Probe275	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	120424	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	837.628	ft
Master Calibration, performed Sat Dec 14 15:50:00 2013:		

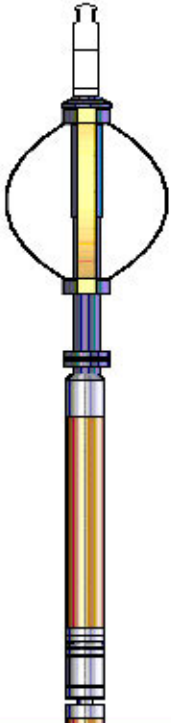
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	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.022	0.607	1.000	62.165	97.215	3.111
CAL	-0.017	1.275				
5'	-0.014	0.721	1.000	62.165	83.167	2.169
SUM						
S1	0.045	0.658	0.000	100.000	163.054	-7.275
S2	-0.026	0.619	0.000	100.000	155.125	3.990
S3	-0.021	0.600	0.000	100.000	161.089	3.427
S4	-0.022	0.594	0.000	100.000	162.128	3.624
S5	-0.022	0.589	0.000	100.000	163.604	3.679
S6	-0.022	0.581	0.000	100.000	165.776	3.728
S7	-0.022	0.547	0.000	100.000	175.764	3.896
S8	-0.022	0.600	0.000	100.000	160.621	3.580

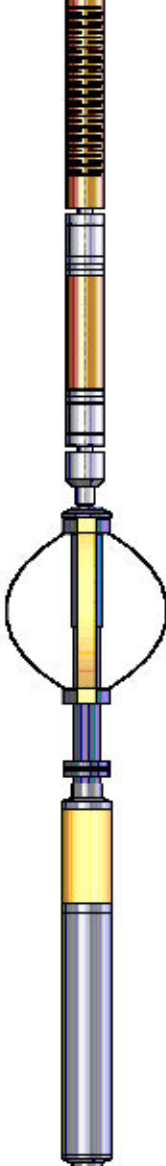
Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.017	1.275	1.000	0.000

Air Zero Calibration, performed Fri Jul 05 11:35:27 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)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00

WVF3FT	11.21		RBT-Probe (120424) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.21					
WVFS1	11.21					
WVFS2	11.21					
WVFS3	11.21					
WVFS4	11.21					
WVFS5	11.21					
WVFS6	11.21					
WVFS7	11.21					
WVFS8	11.21					
WVF5FT	10.13	Probe275 2.75" Centralizer	2.88	2.75	20.00	
CCL	3.88					
GR	2.54	GR-Probe275 (FW1408-38) Probe 2 3/4" Logging Gamma Ray	4.00	2.75	57.00	
<div>Dataset: bc - np f-j-13hnc.db: field/well/run1/pass3 Total Length: 19.67 ft Total Weight: 197.00 lb O.D.: 3.71 in</div>						