



CEMENT BOND LOG CCL & VDL GAMMA RAY

Pioneer Energy Services

Company	Great Western Operating CO. LLC	Country	USA
Well	Clyde E. Williams Jr. #2		
Field	Wattenberg		
County	Adams		
State	Colorado		
Location:	API # : 05001077330000	Other Services	None
	SEC 34 TWP 2S RGE 64W		
Permanent Datum	GL	Elevation	5378
Log Measured From	KB		
Drilling Measured From	KB		
		Elevation	K.B. 5388 D.F. 5387 G.L. 5378

Date	March 22, 2014
Run Number	1
Depth Driller	NA
Depth Logger	5937
Bottom Logged Interval	5935
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	0810
Time Logger on Bottom	0945
Equipment Number	49
Location	Brighton, CO
Recorded By	Matt Gill
Witnessed By	Bill Daugherty

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5.5"	15.5	Surface	8100'
Liner				

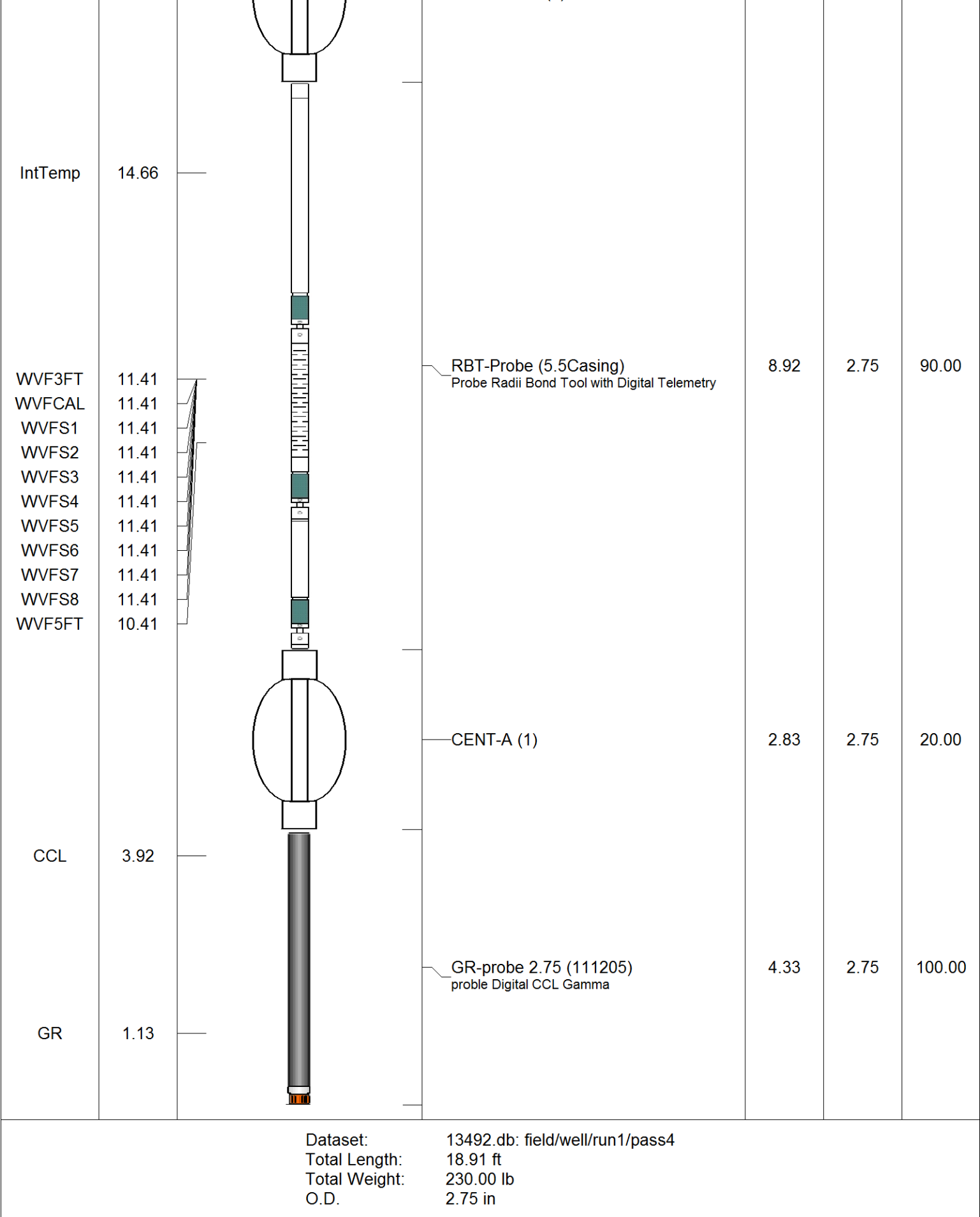
<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

Thank You for using Pioneer Energy Services
Concord Rig 8

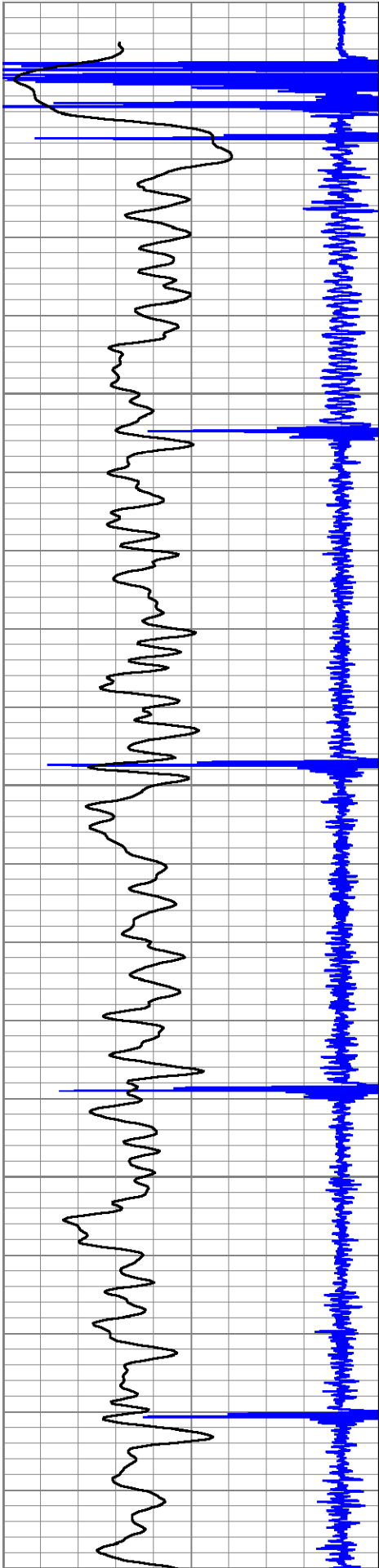
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00



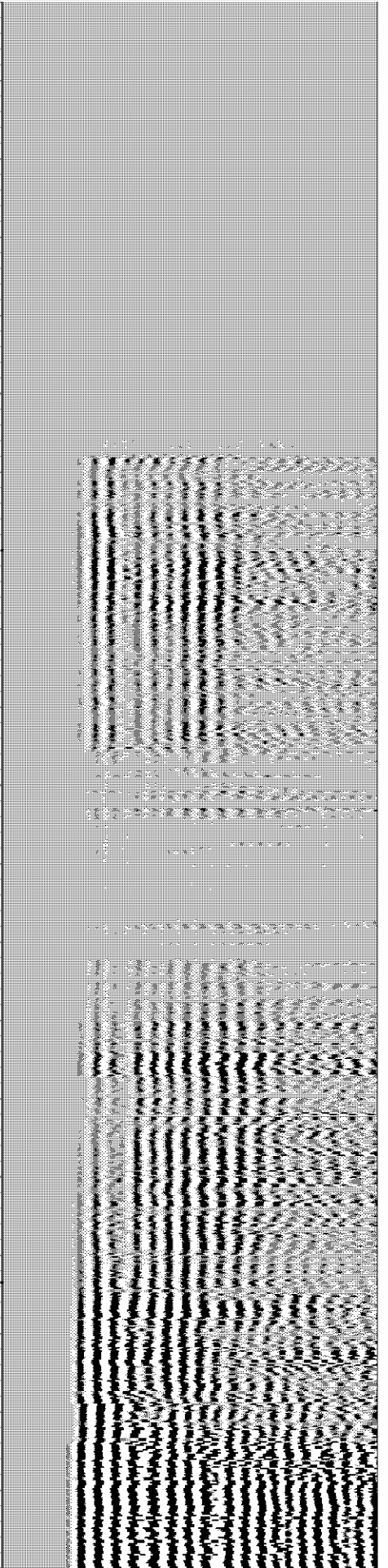
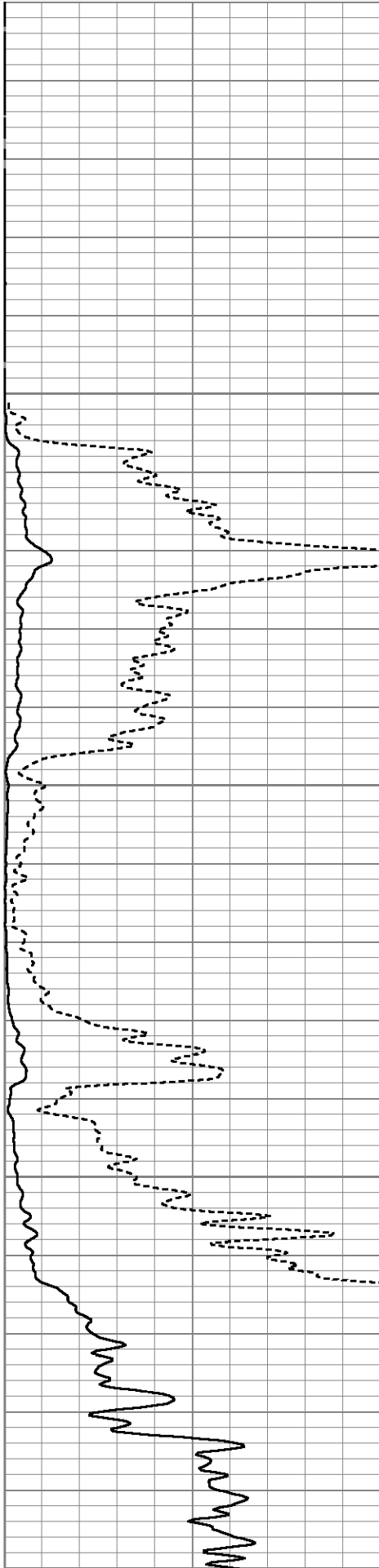
-9	Collar Locator	1
0	Gamma Ray (GAPI)	200

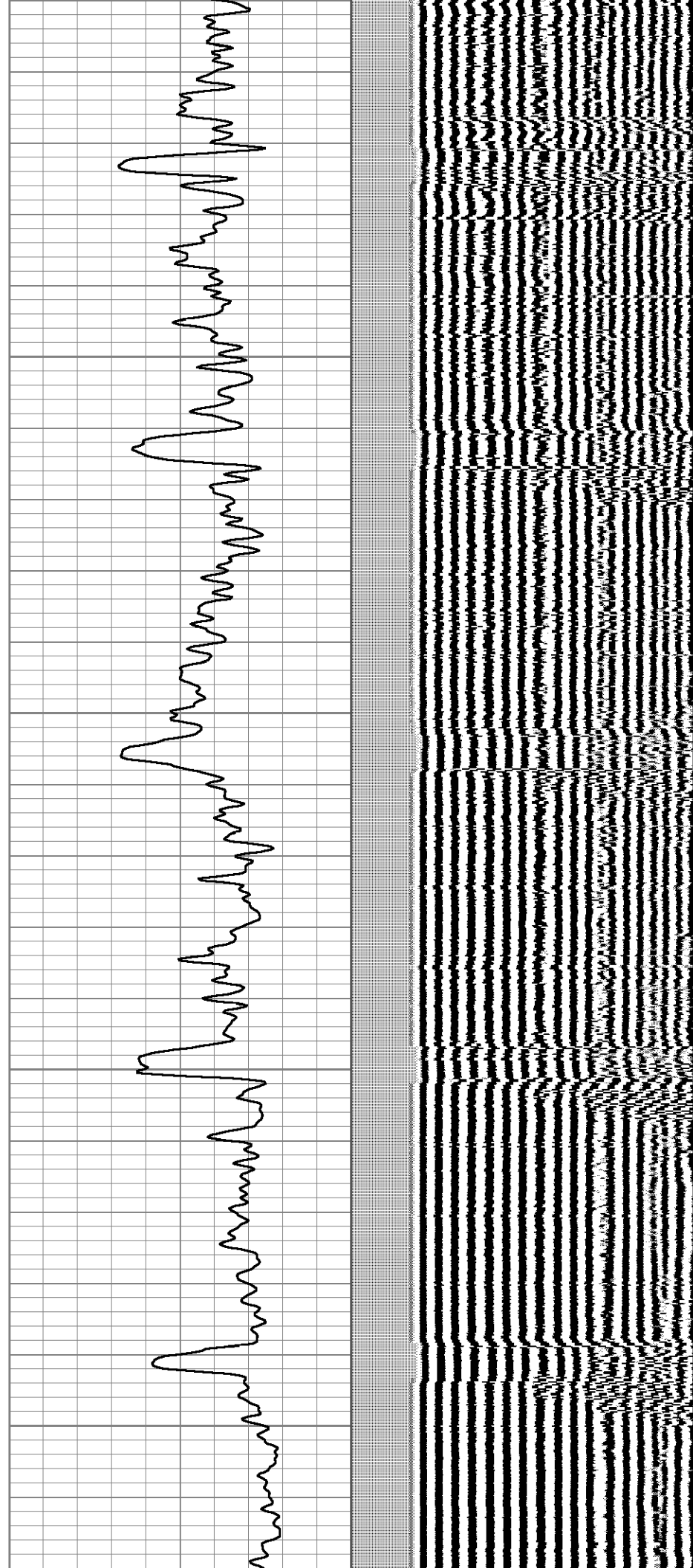
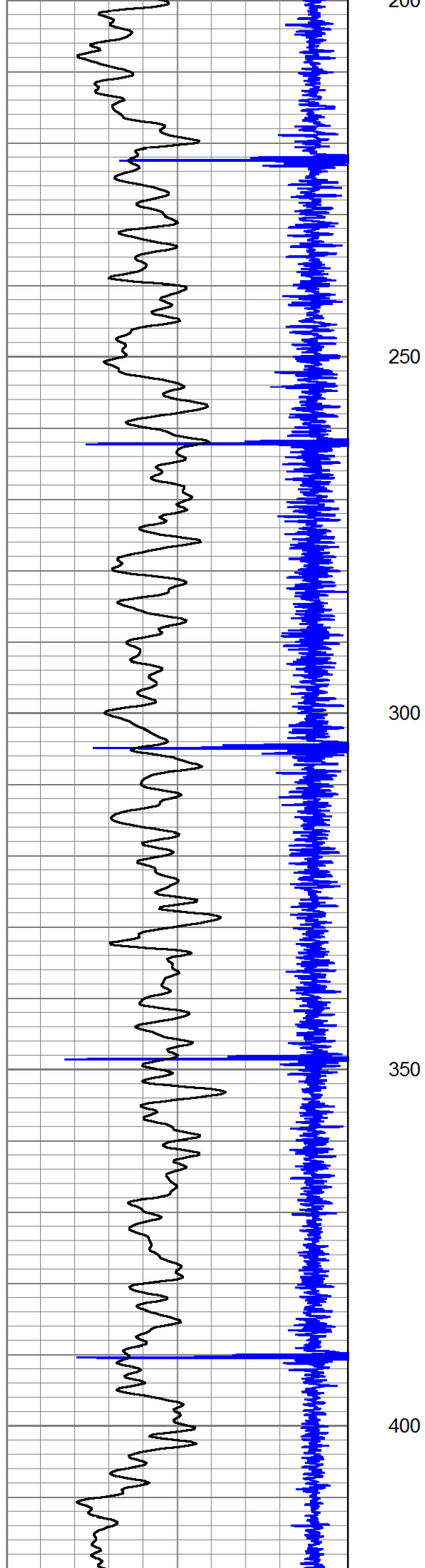
0	AMP AMPLITUDE (mV)	10
0	AMPLITUDE (mV)	100

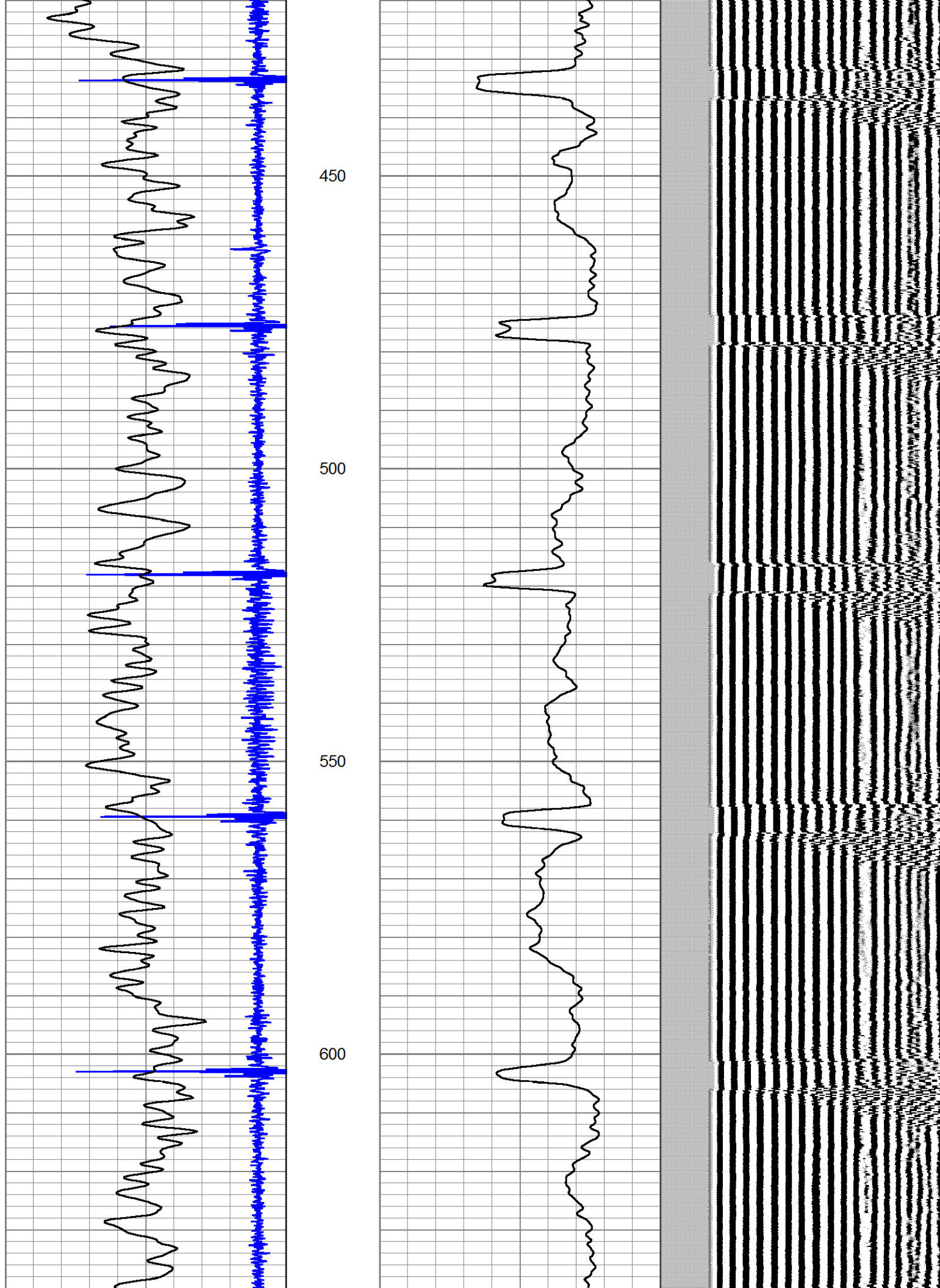
200	VDL	1200
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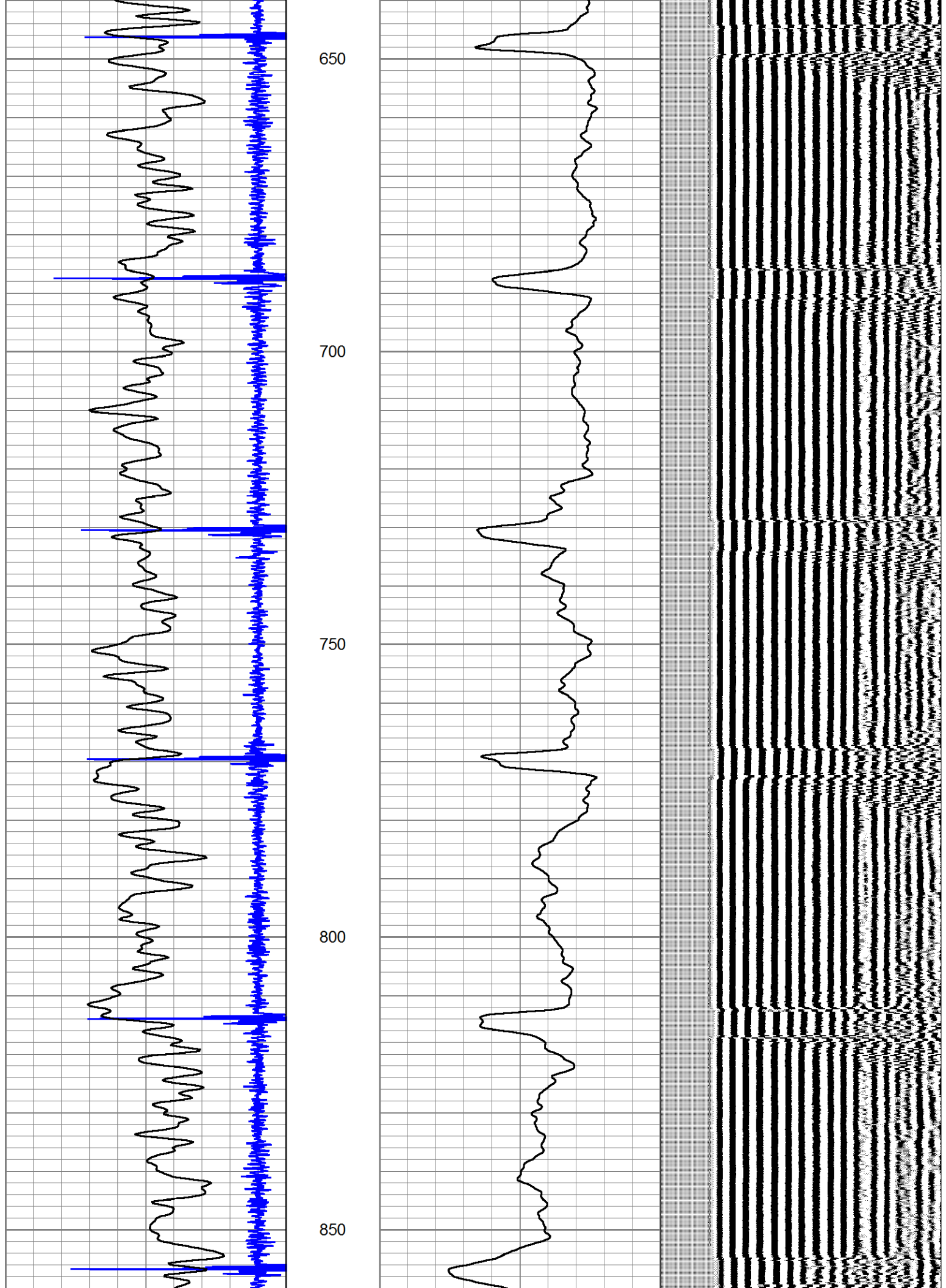


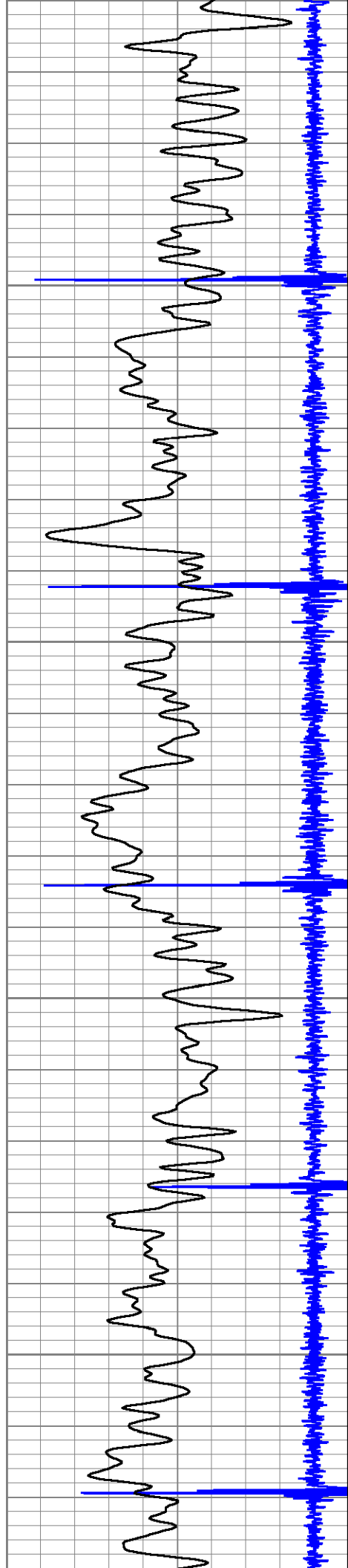
0
50
100
150
200









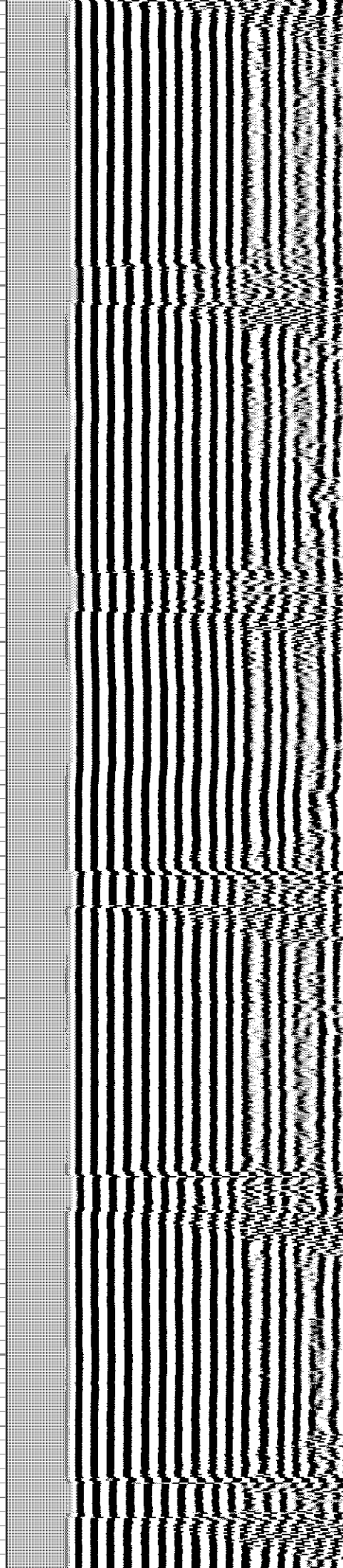
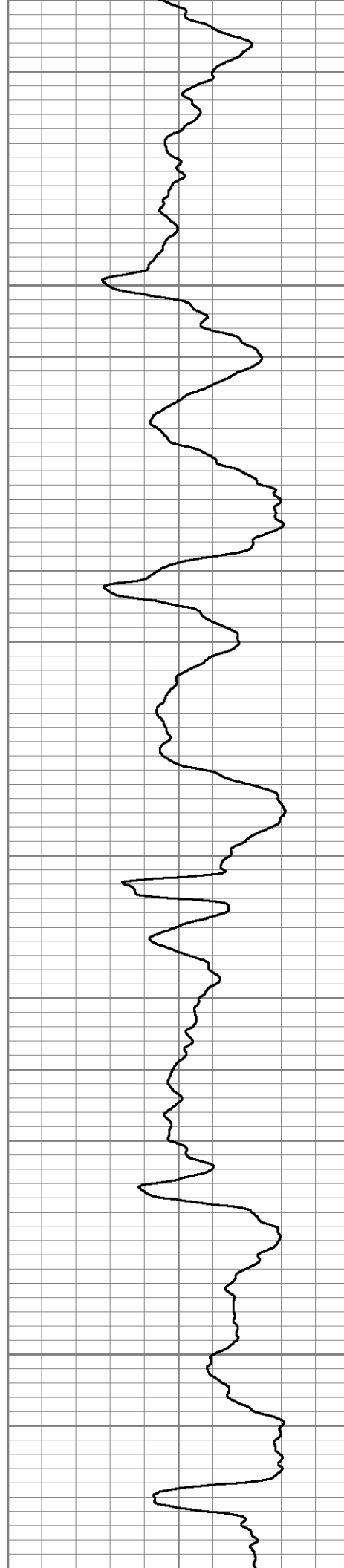


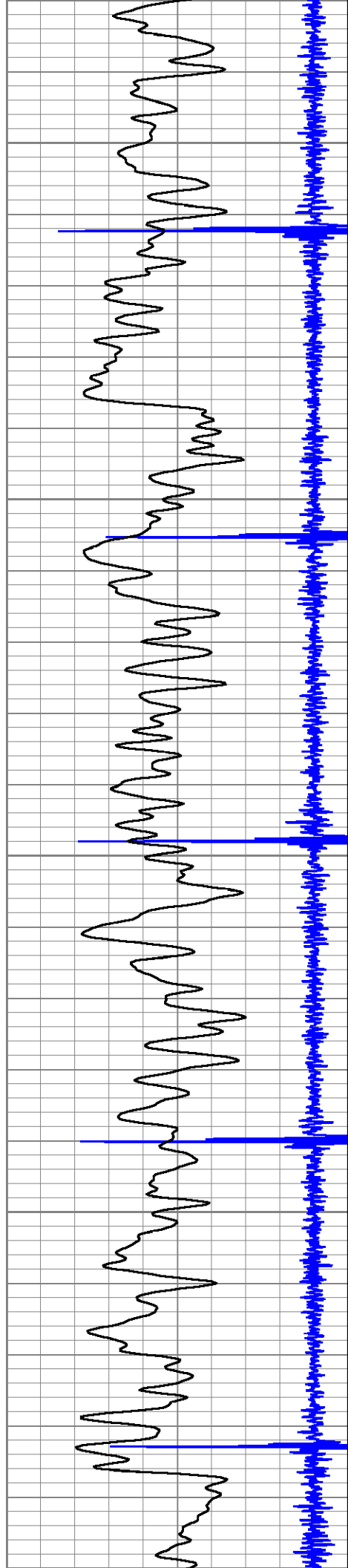
900

950

1000

1050





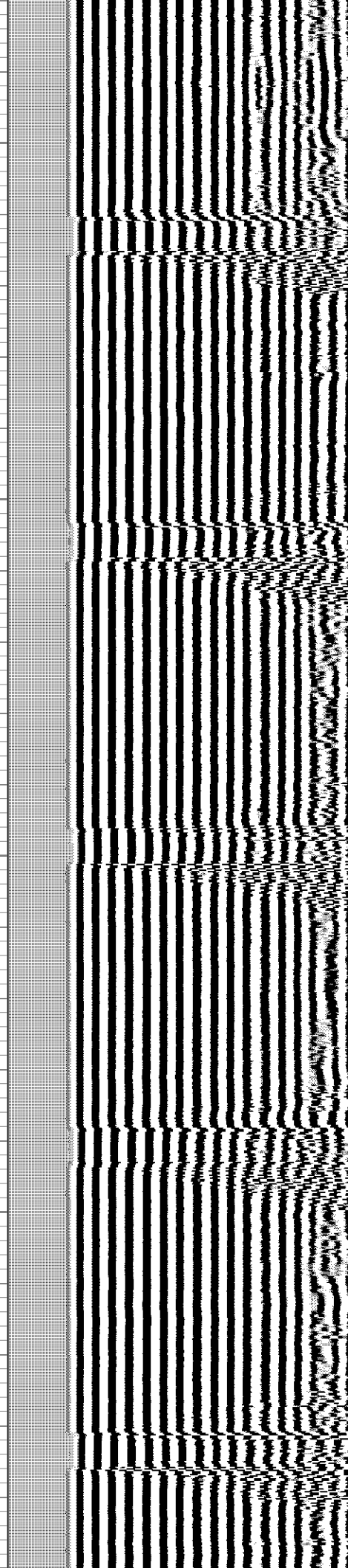
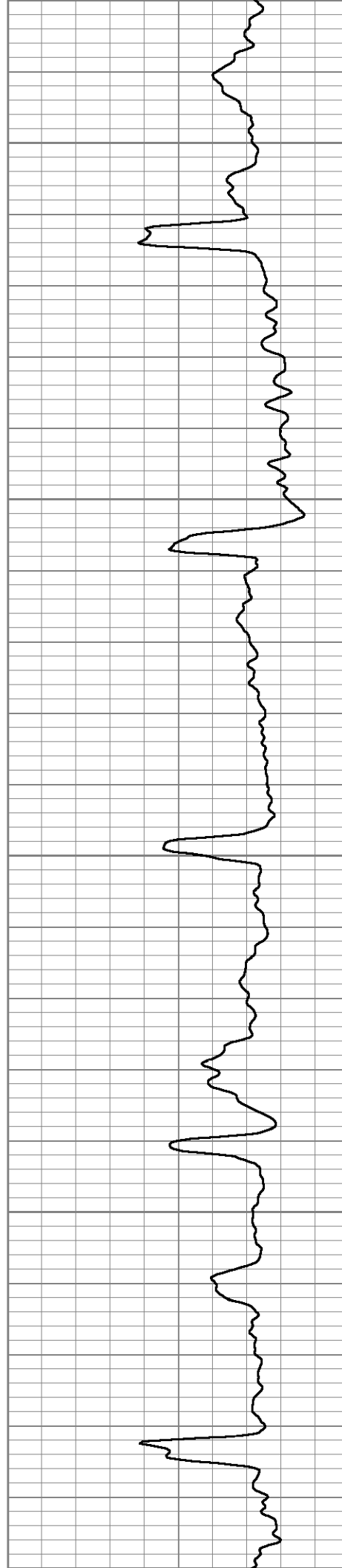
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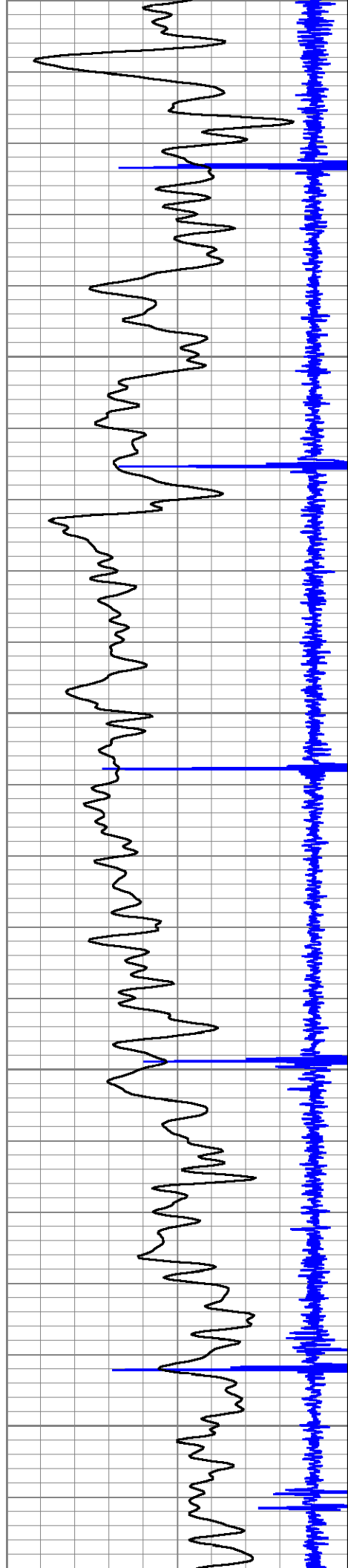
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1200

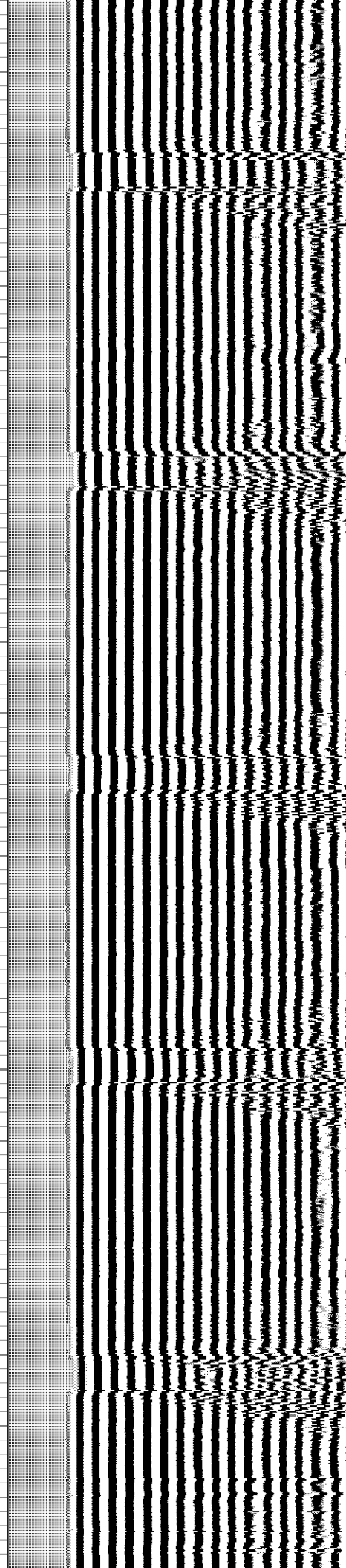
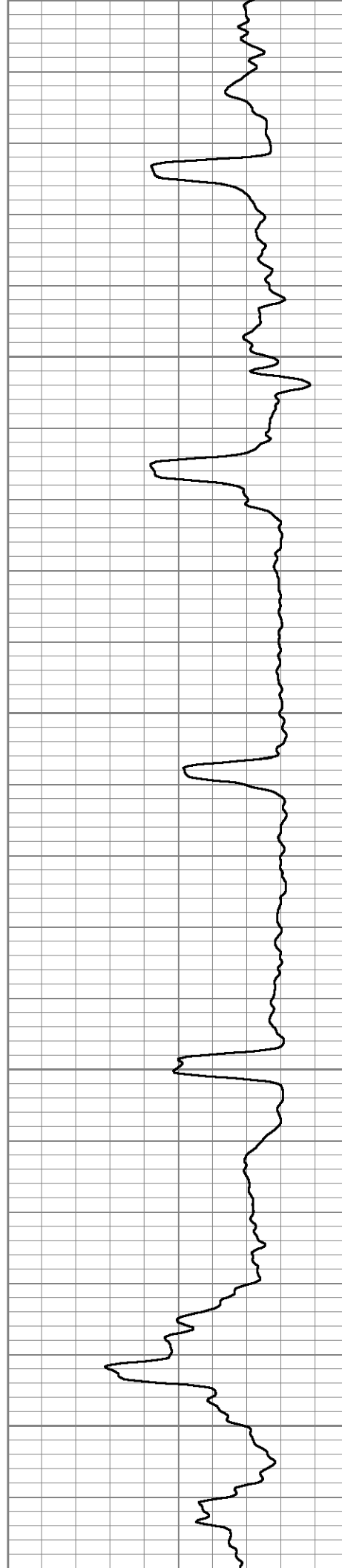
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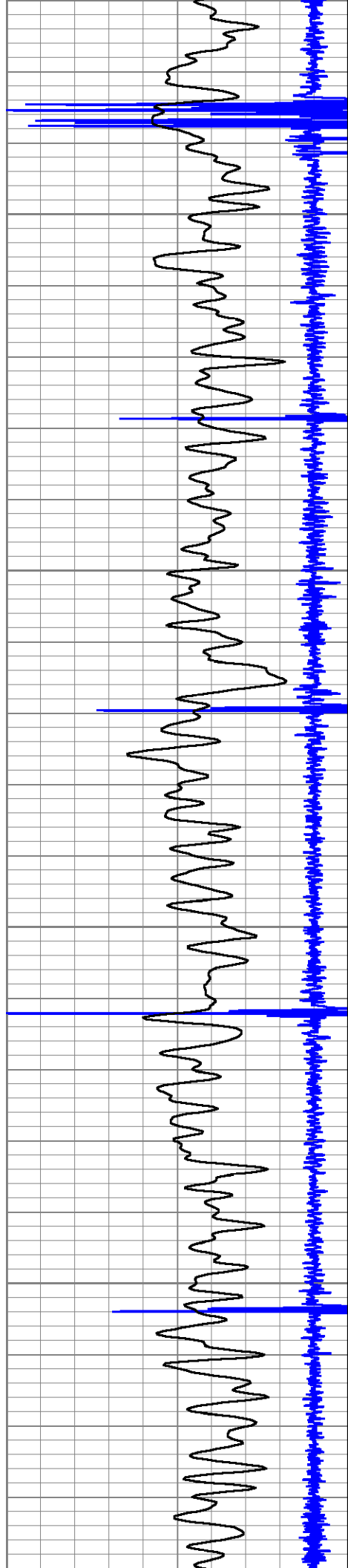
1300





1500
1350
1400
1450
1500



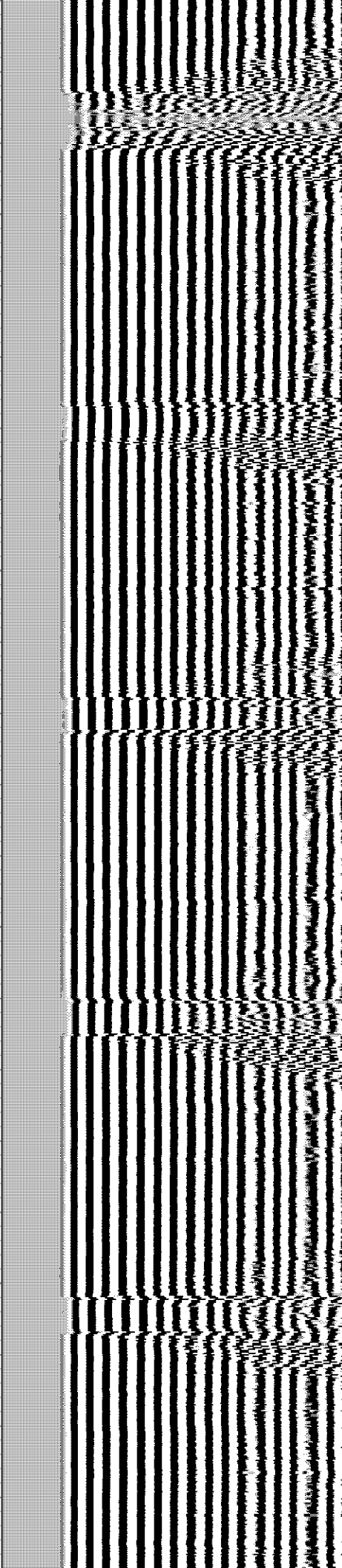
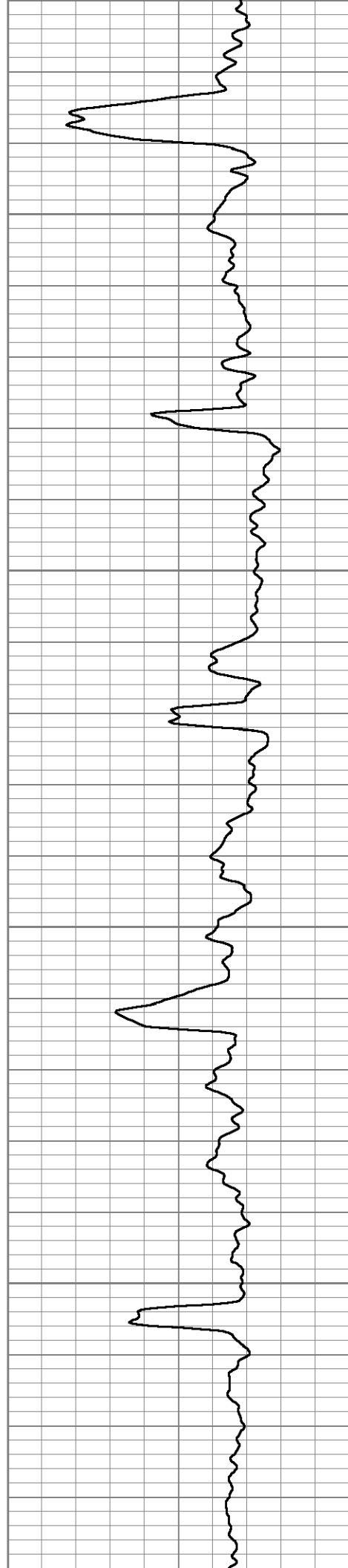


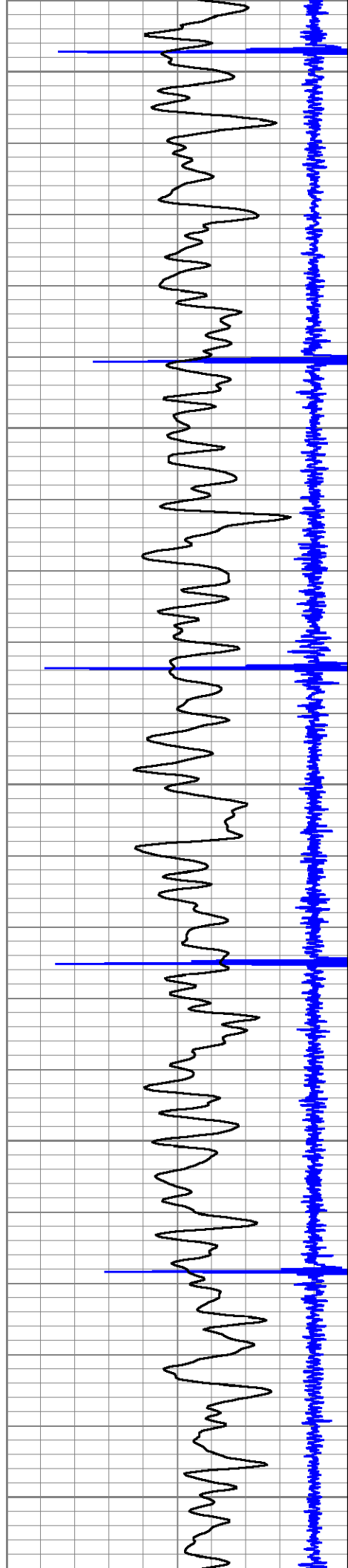
1550

1600

1650

1700





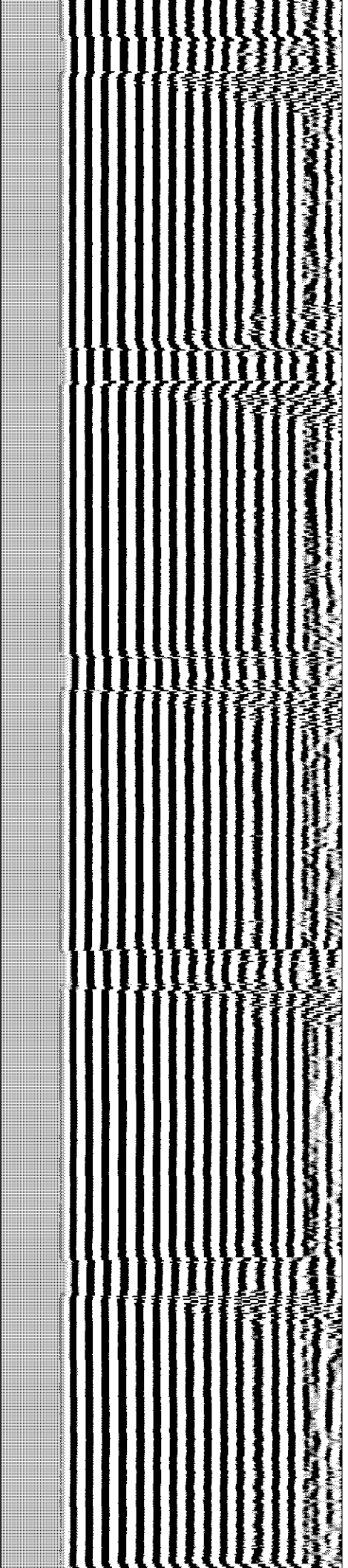
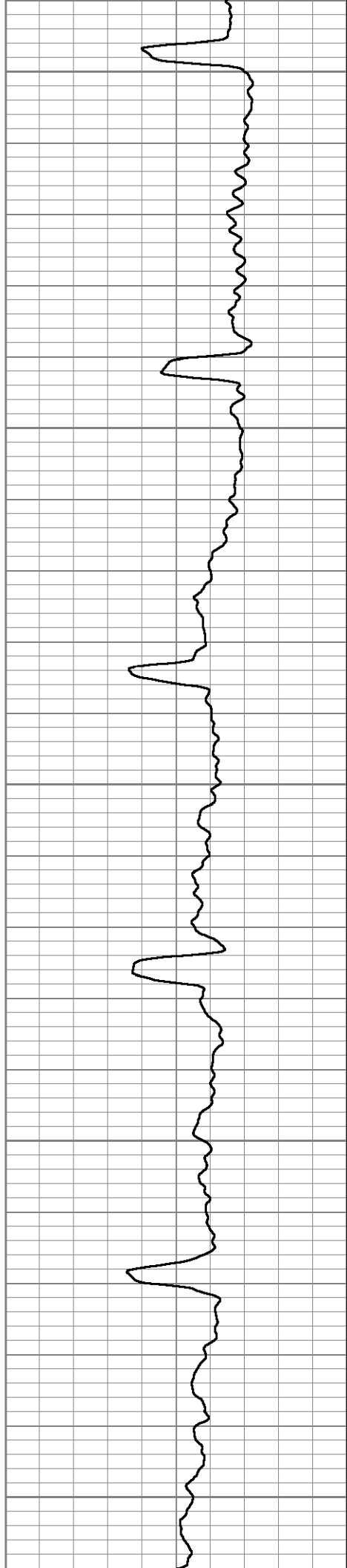
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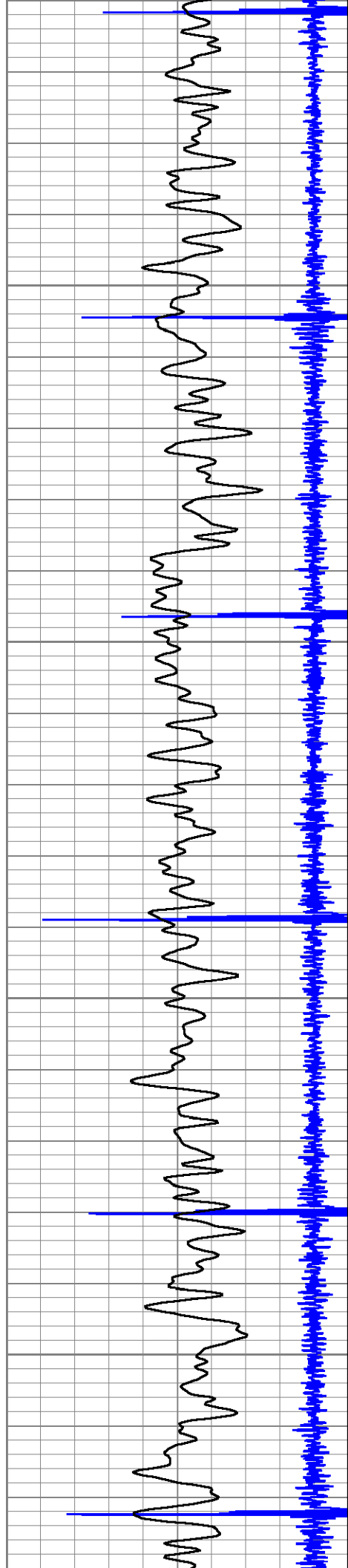
1800

1850

1900

1950



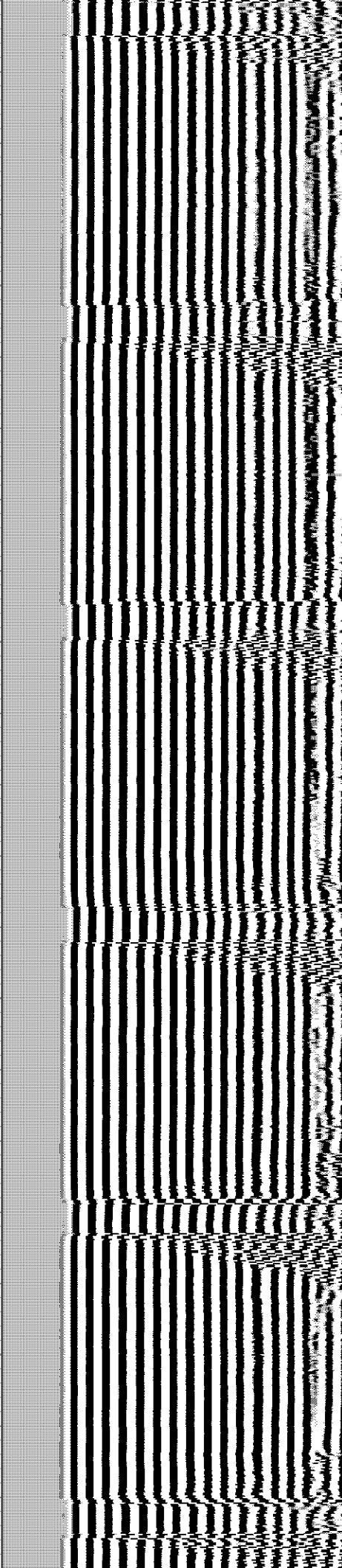
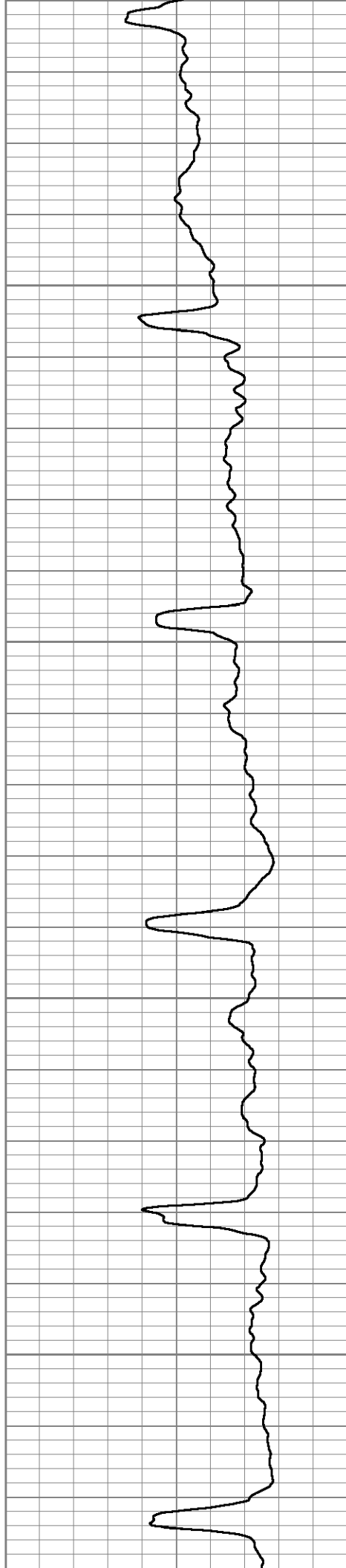


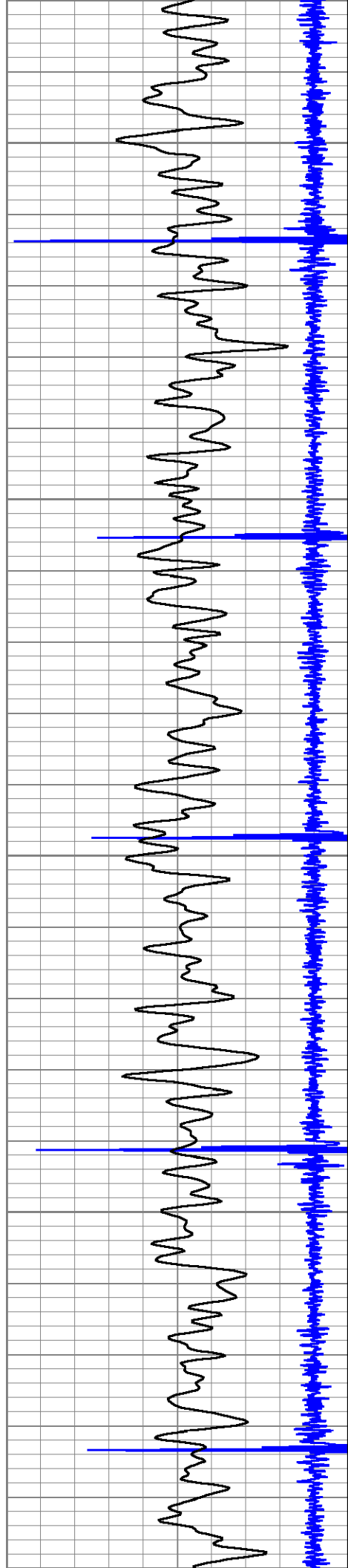
2000

2050

2100

2150





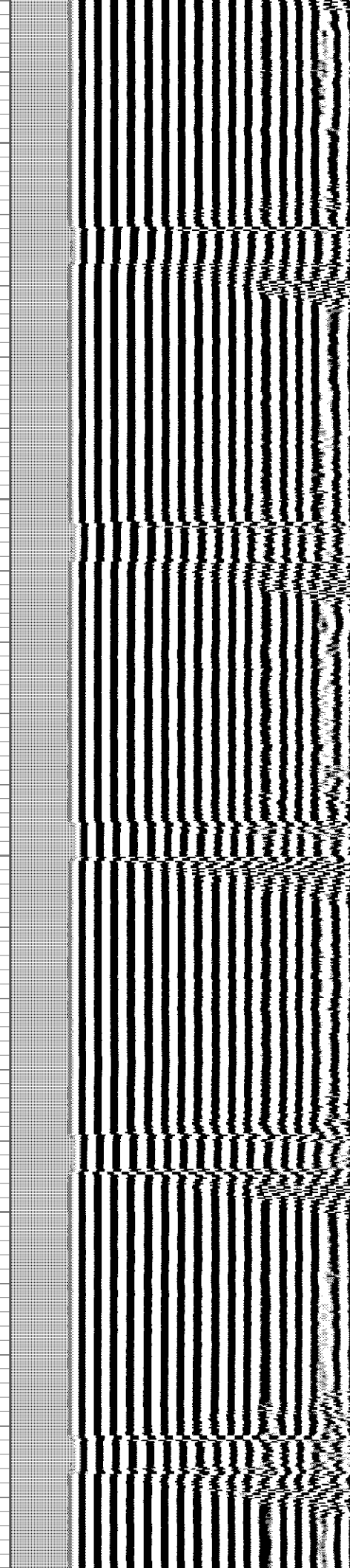
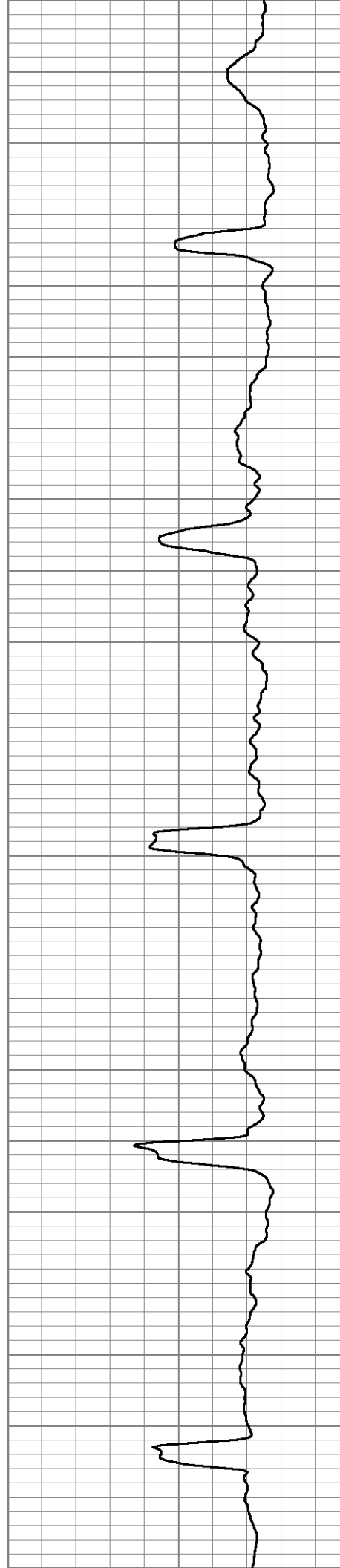
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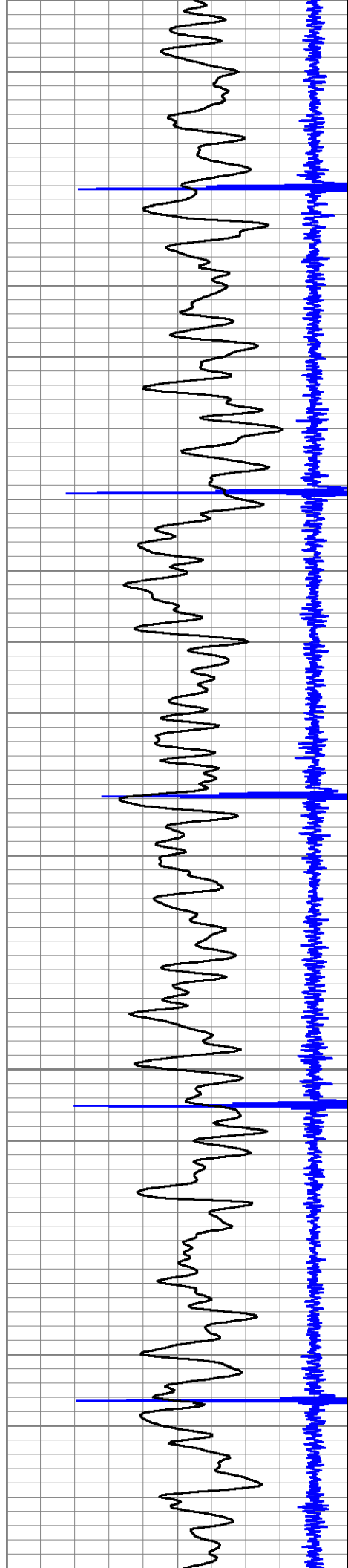
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2300

2350

2400





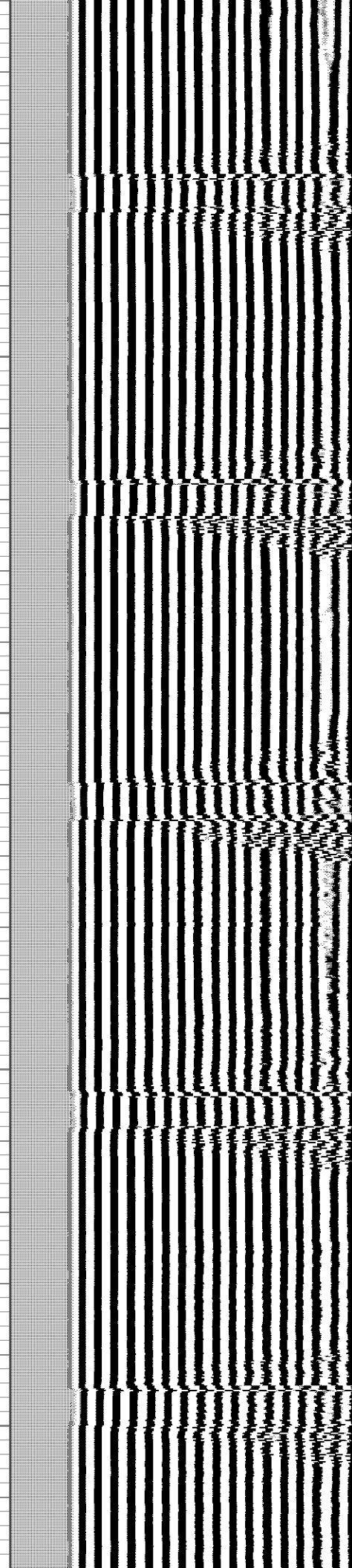
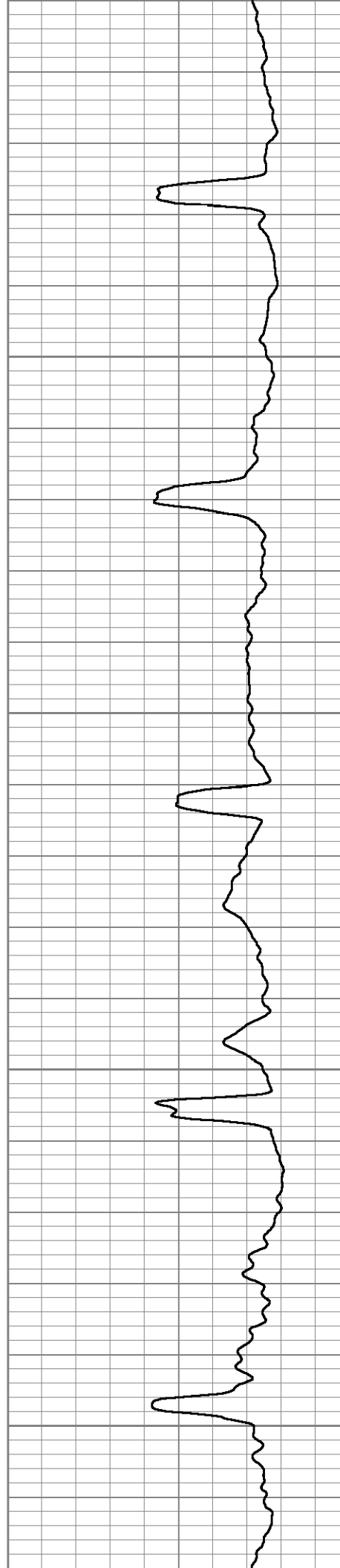
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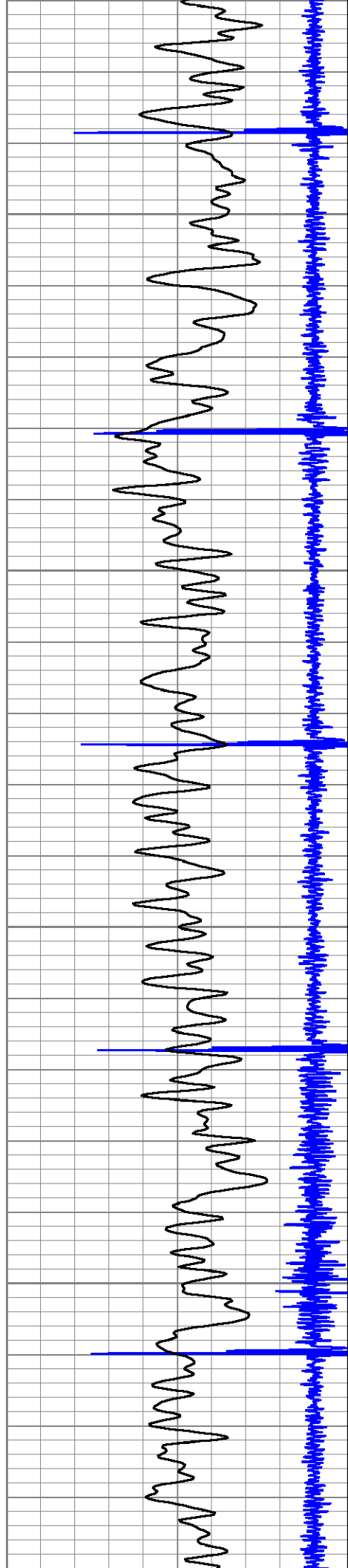
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2500

2550

2600



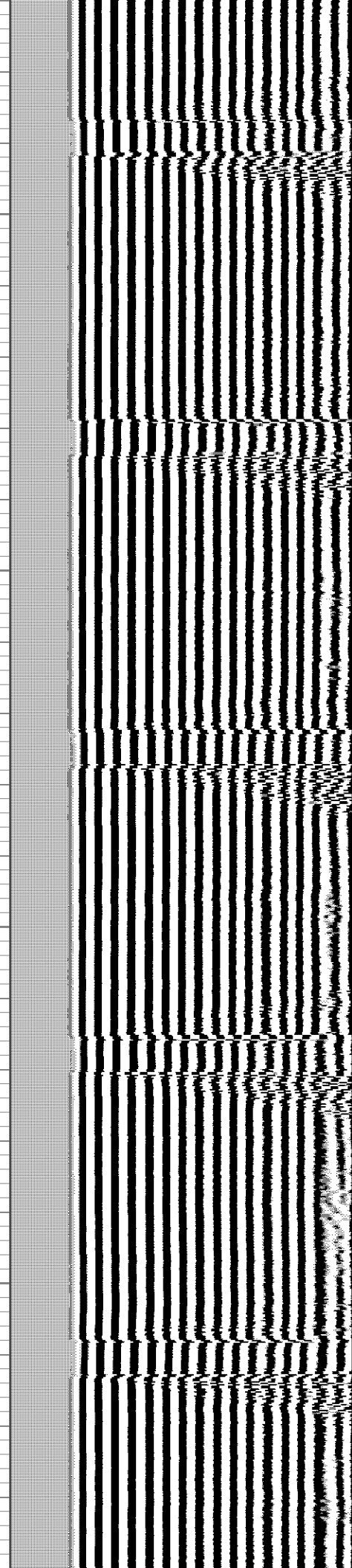
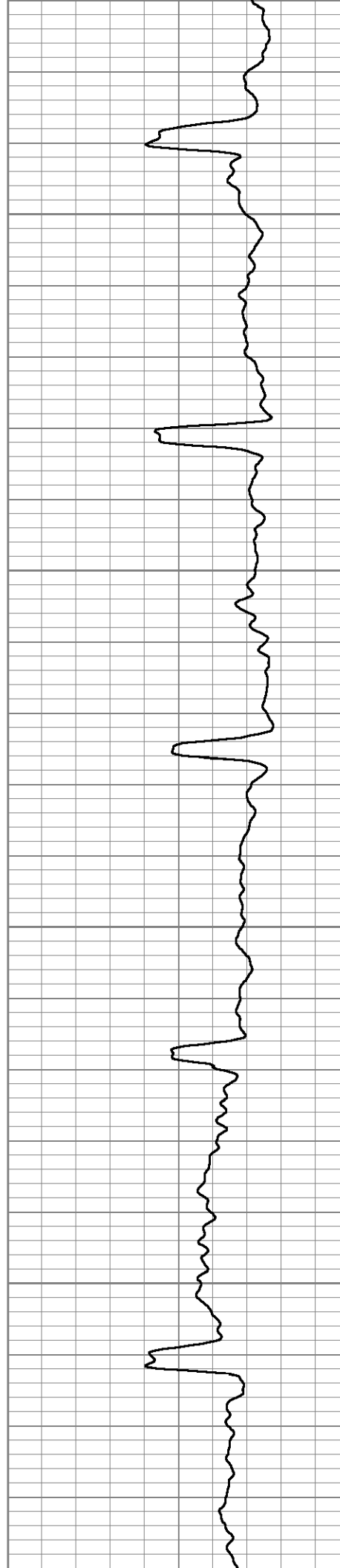


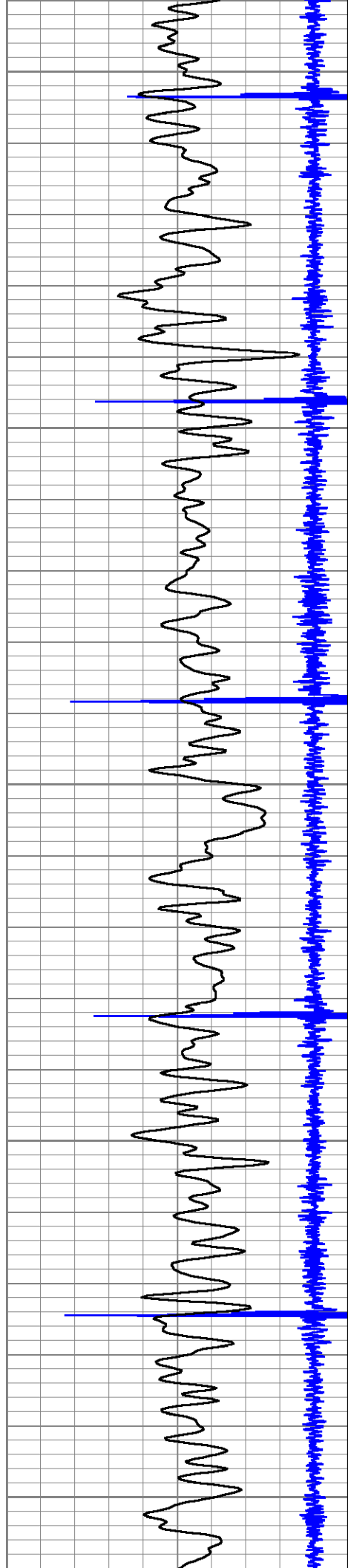
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2700

2750

2800





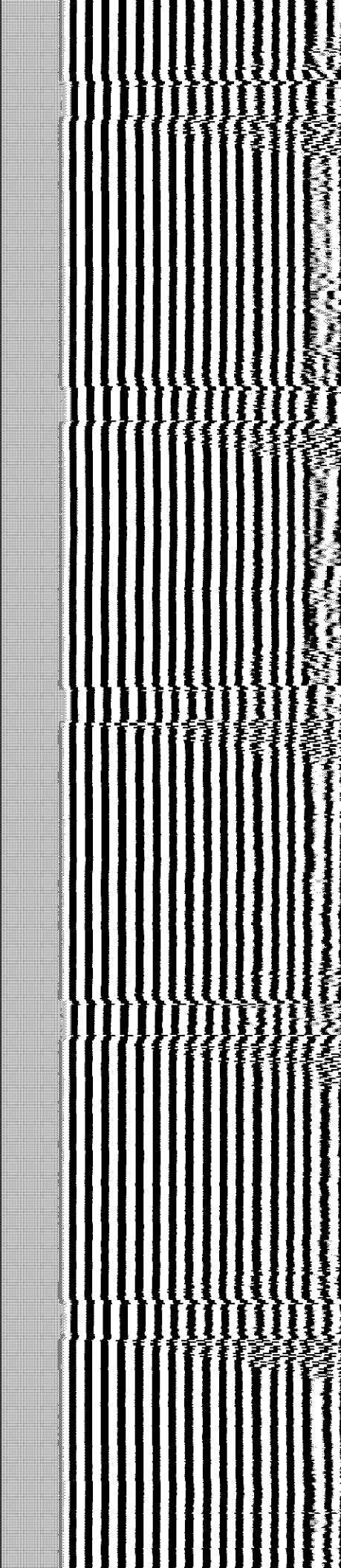
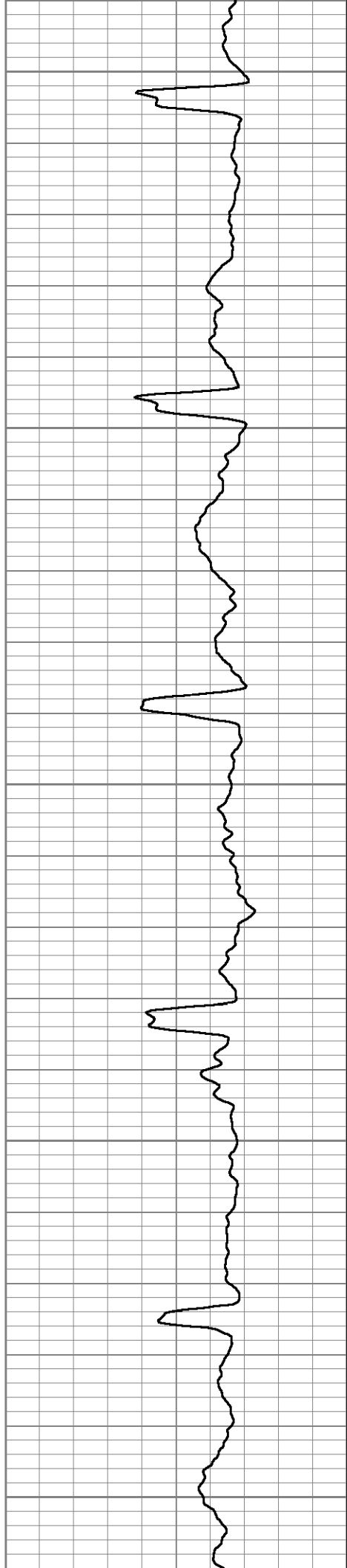
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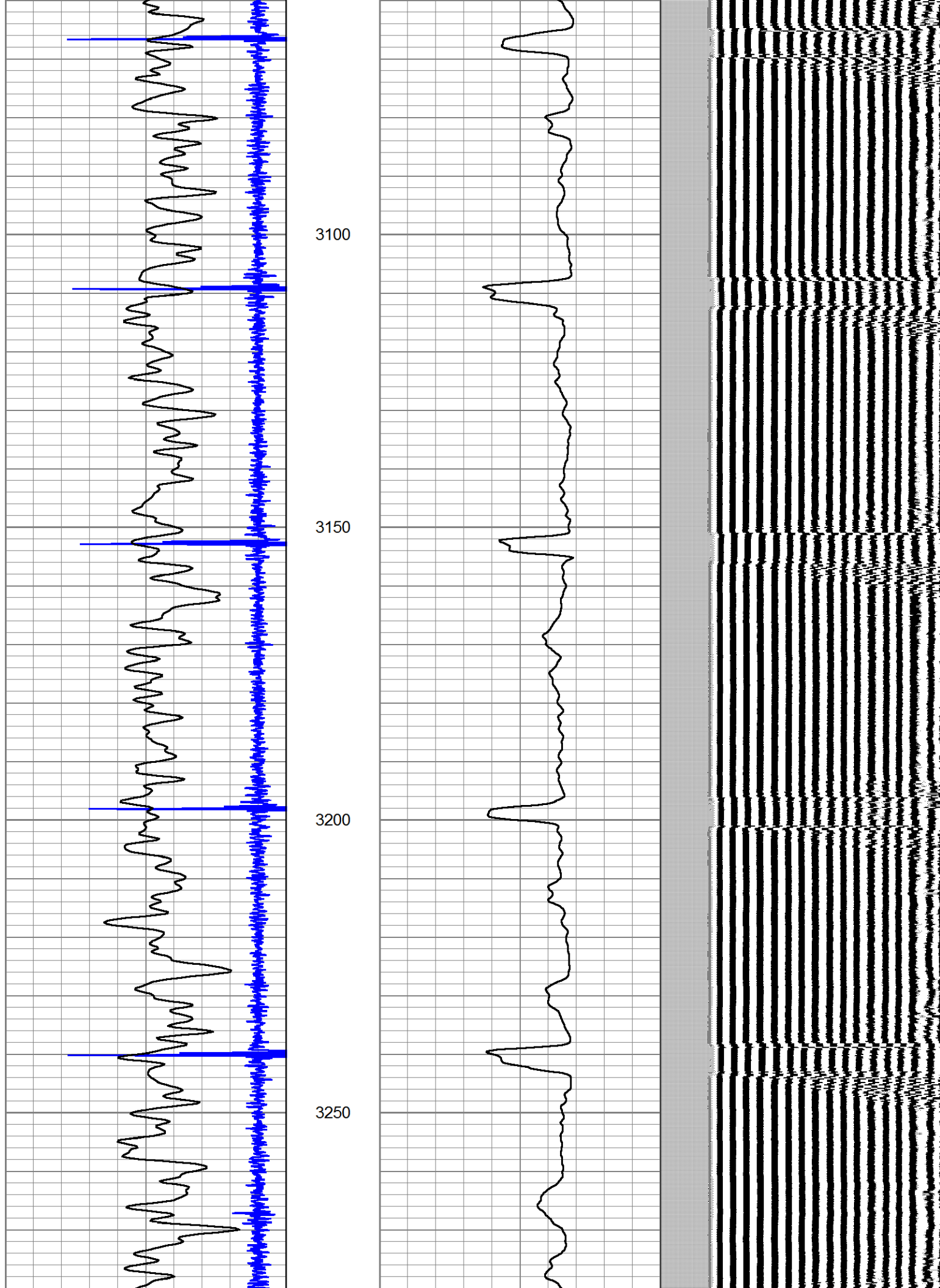
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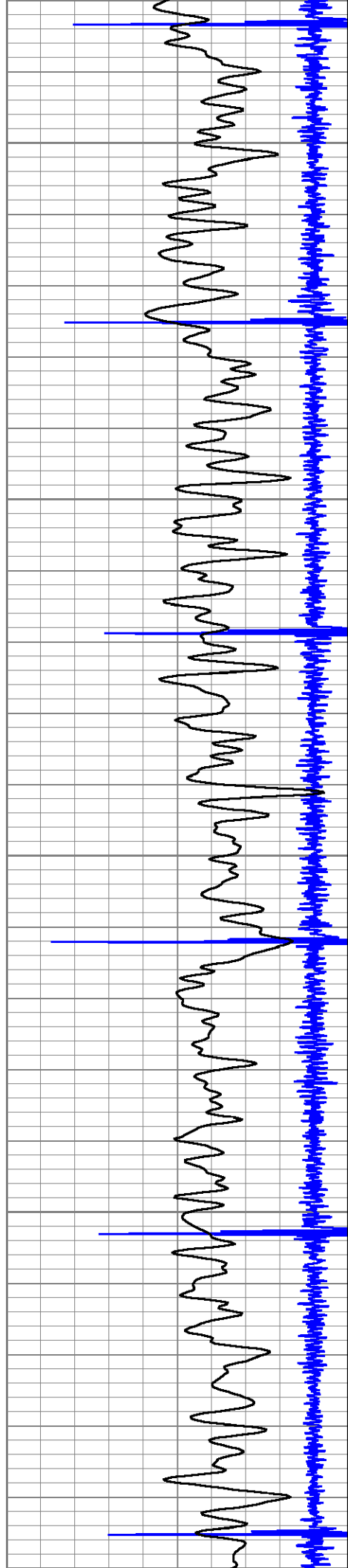
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3000

3050







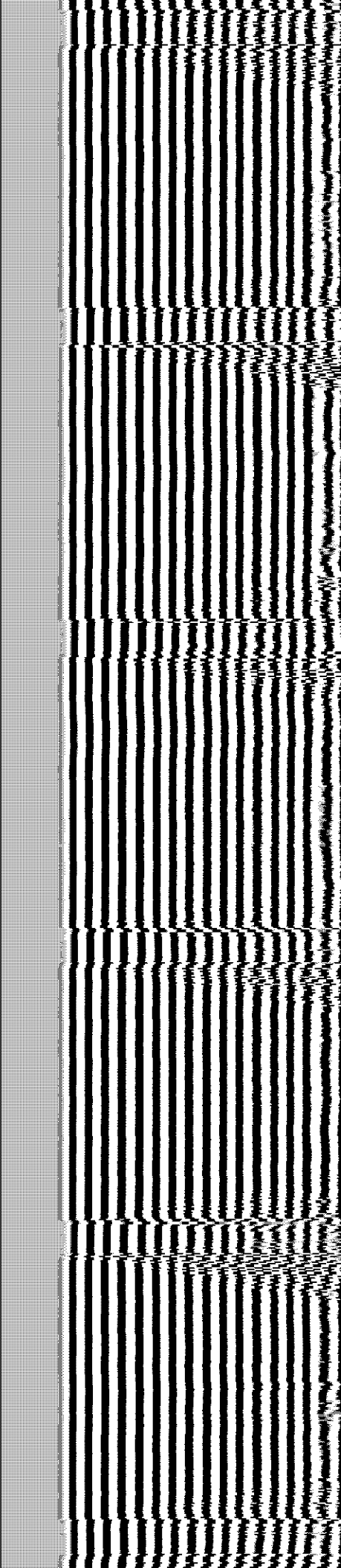
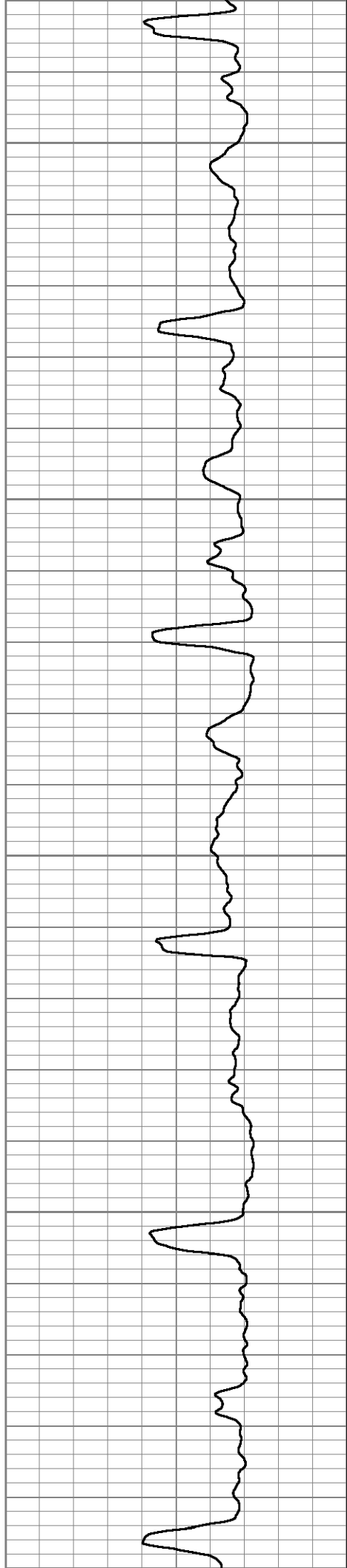
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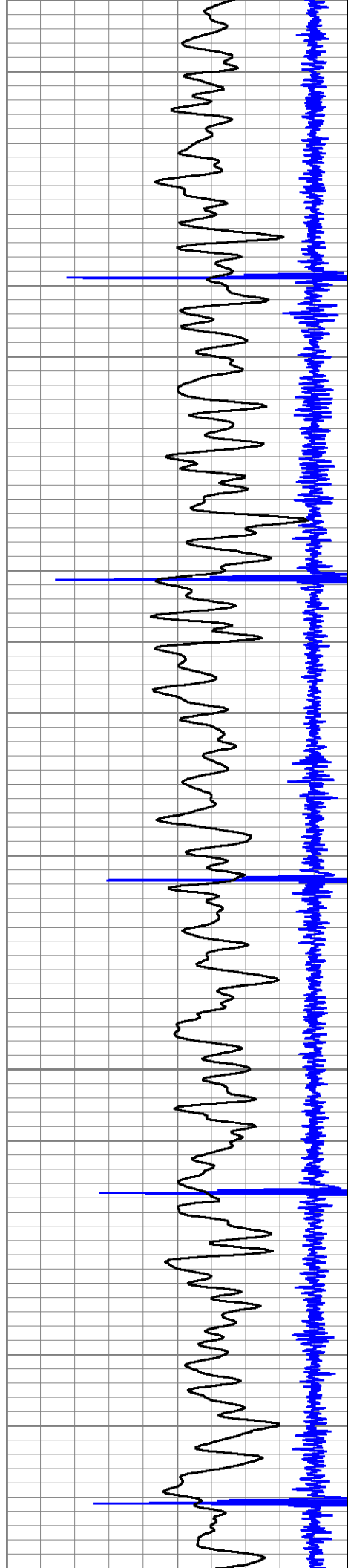
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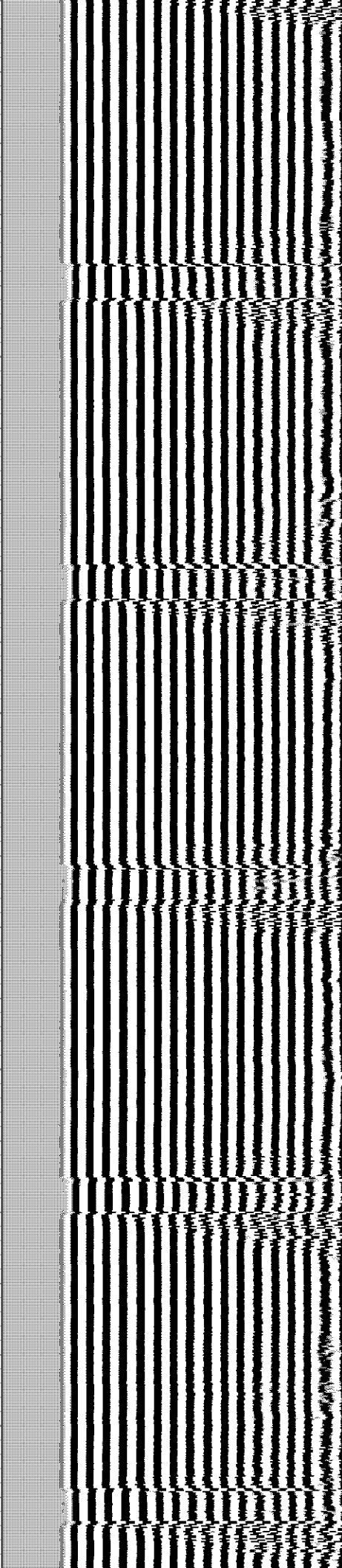
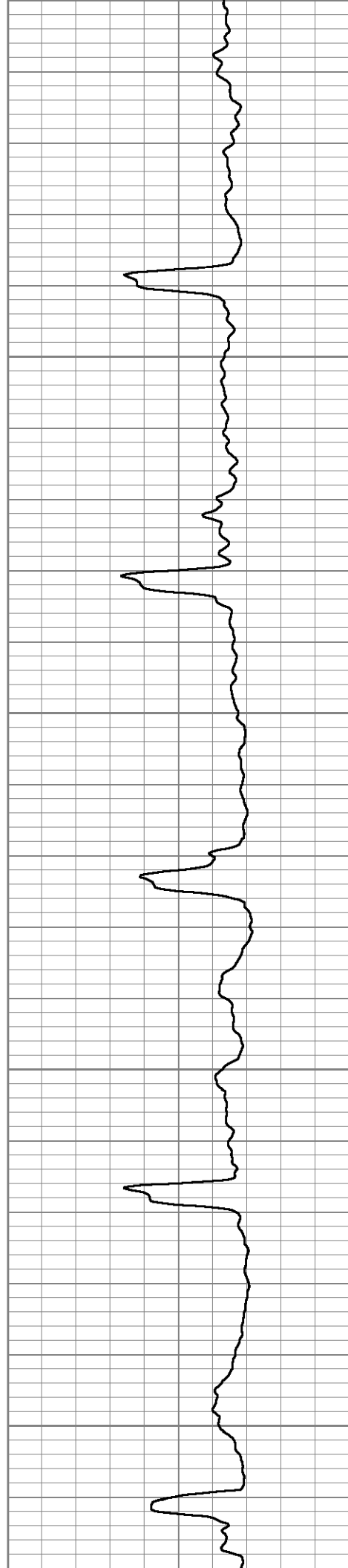
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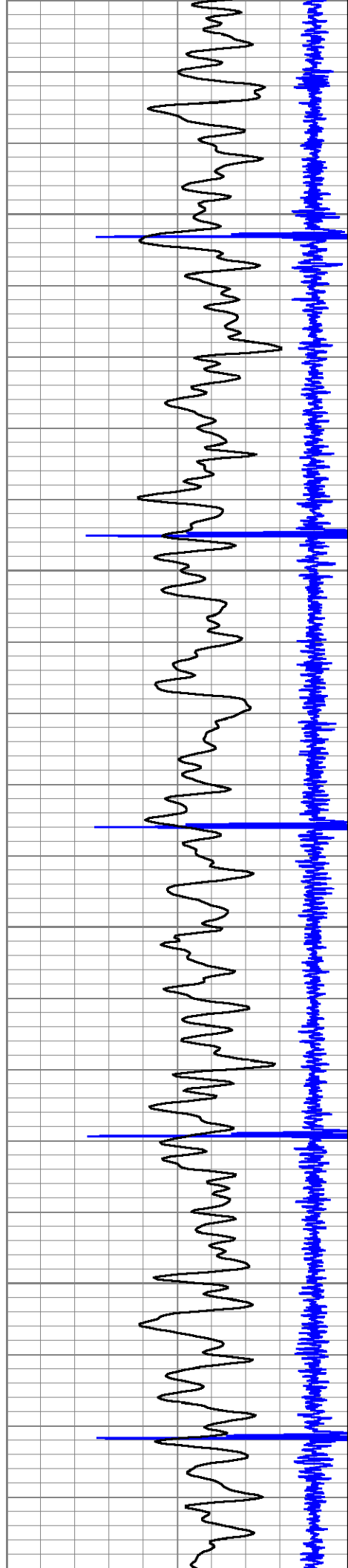
3500





3500
3550
3600
3650
3700



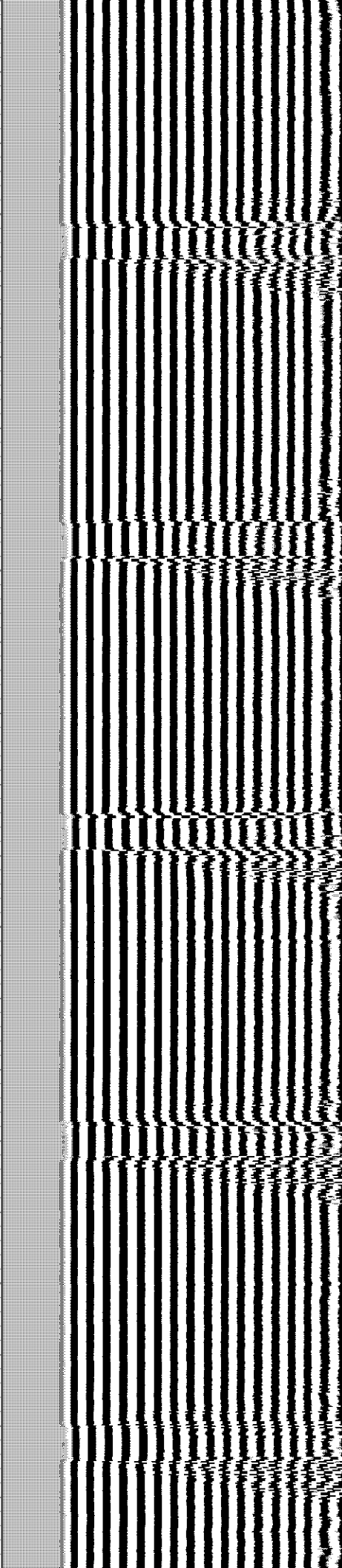


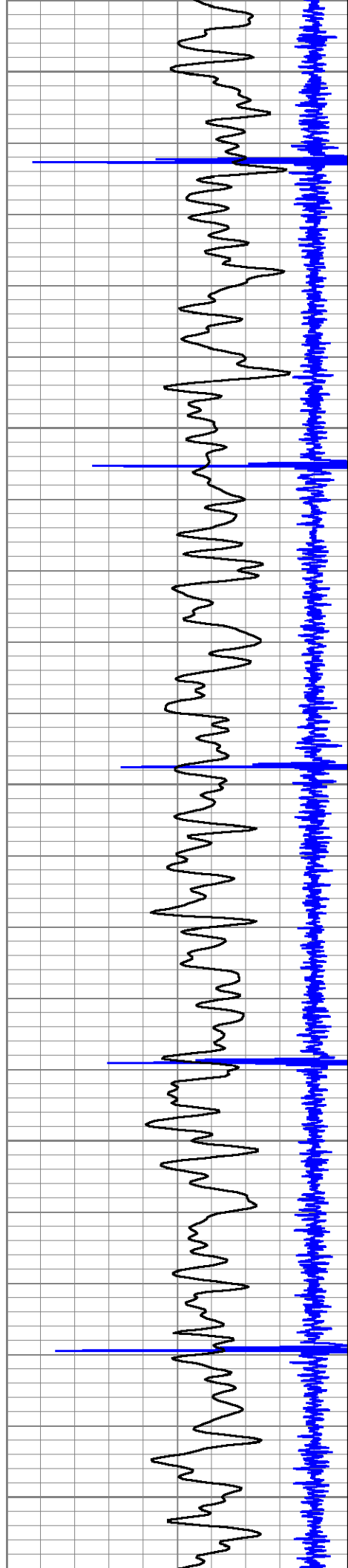
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3800

3850

3900





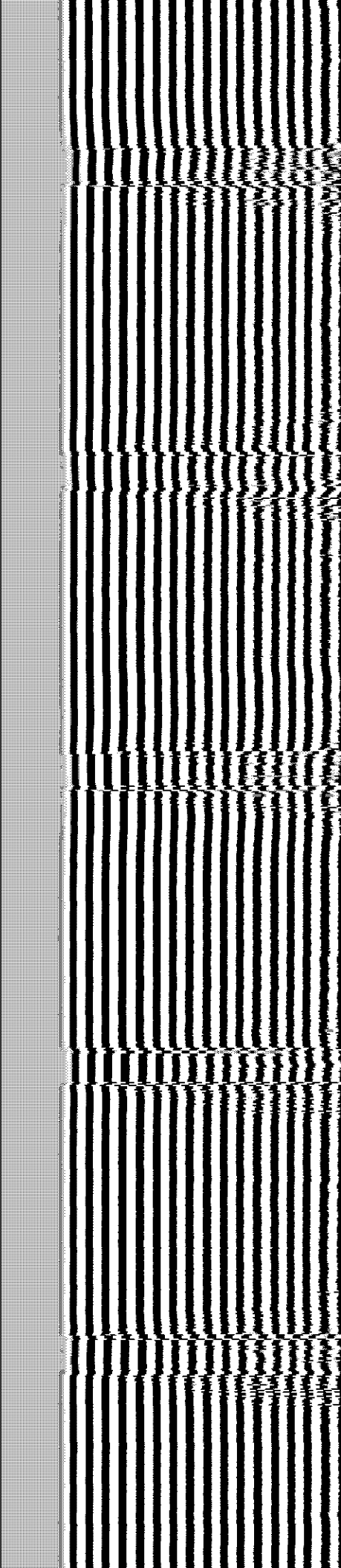
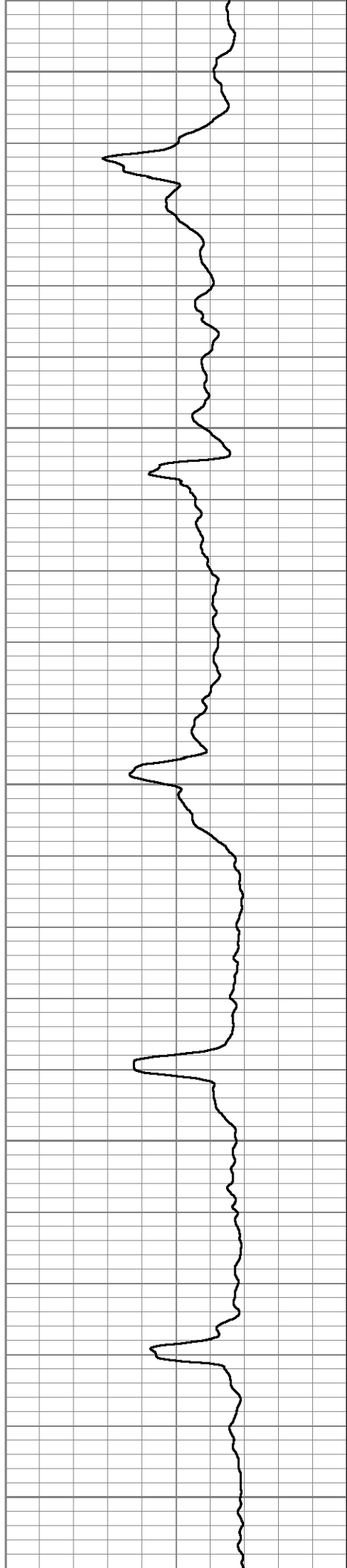
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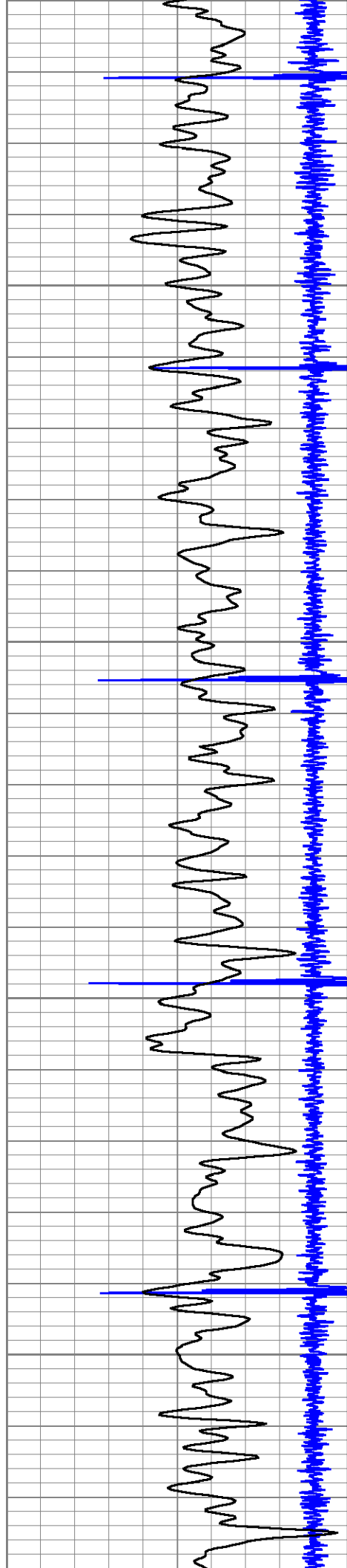
4000

4050

4100

4150



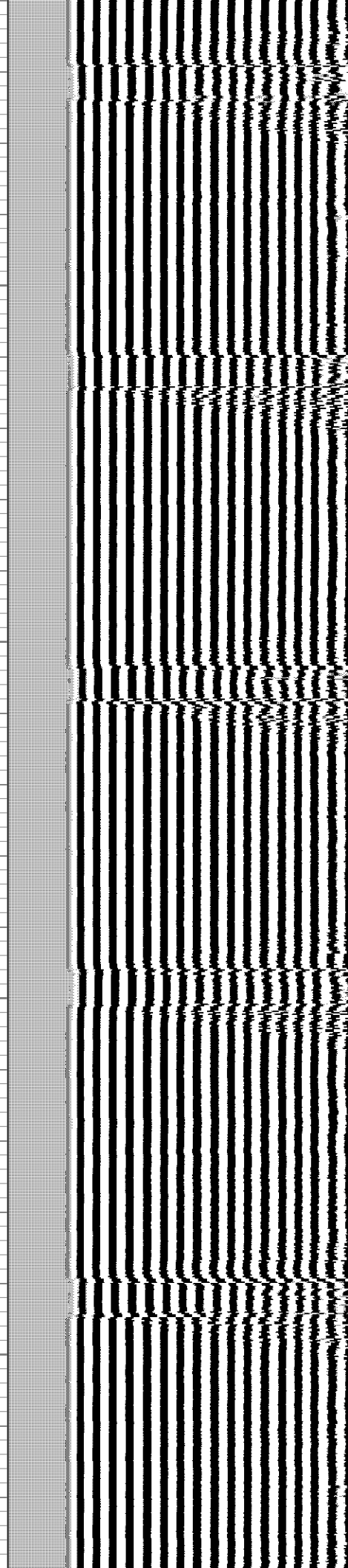
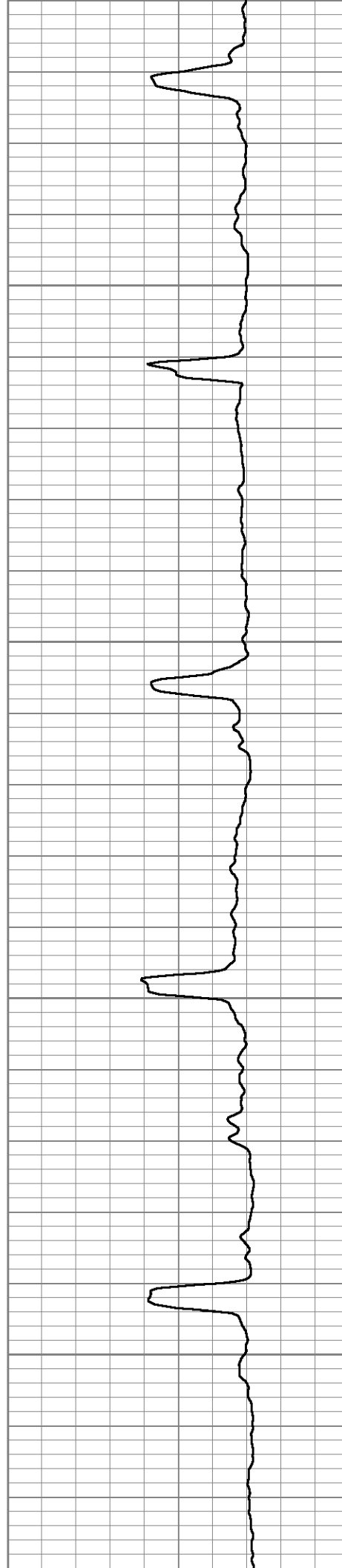


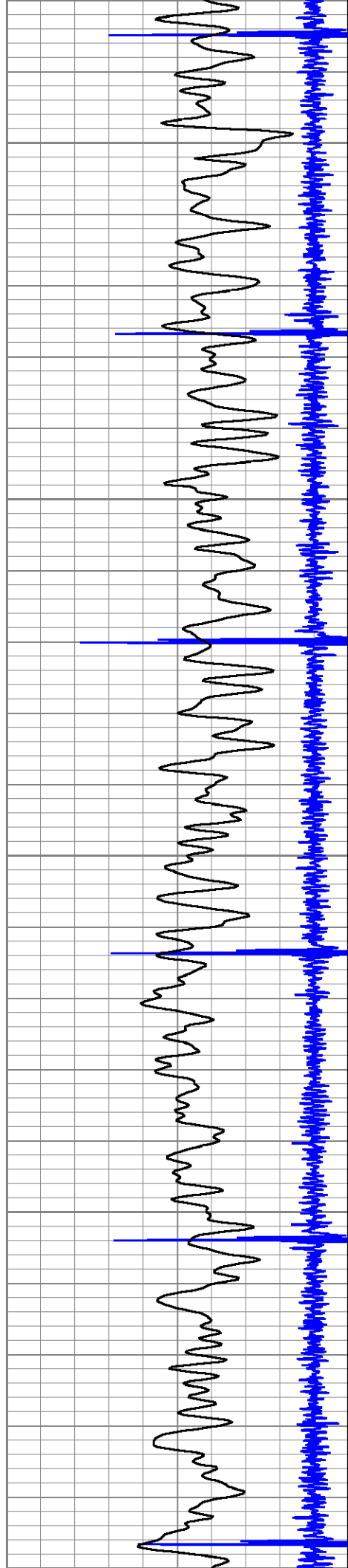
4200

4250

4300

4350





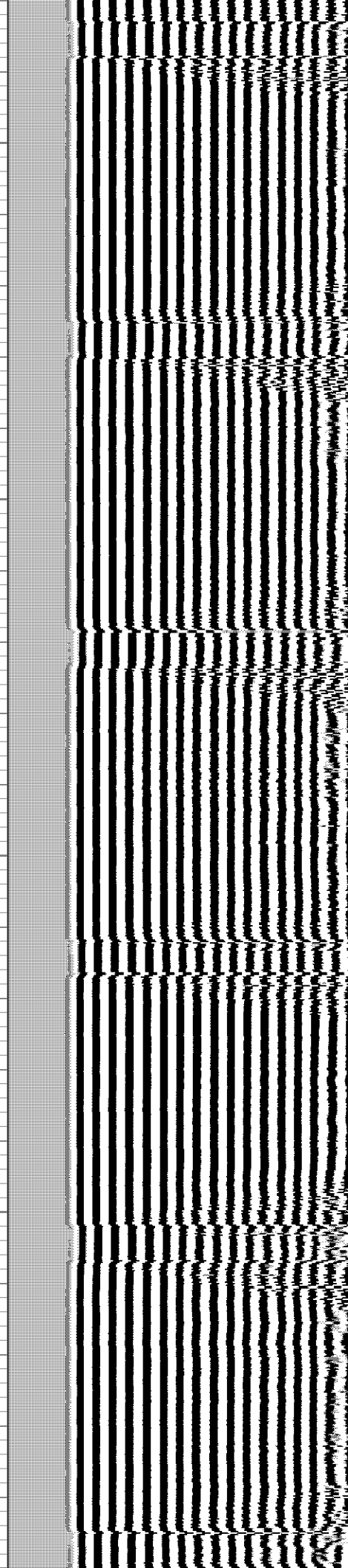
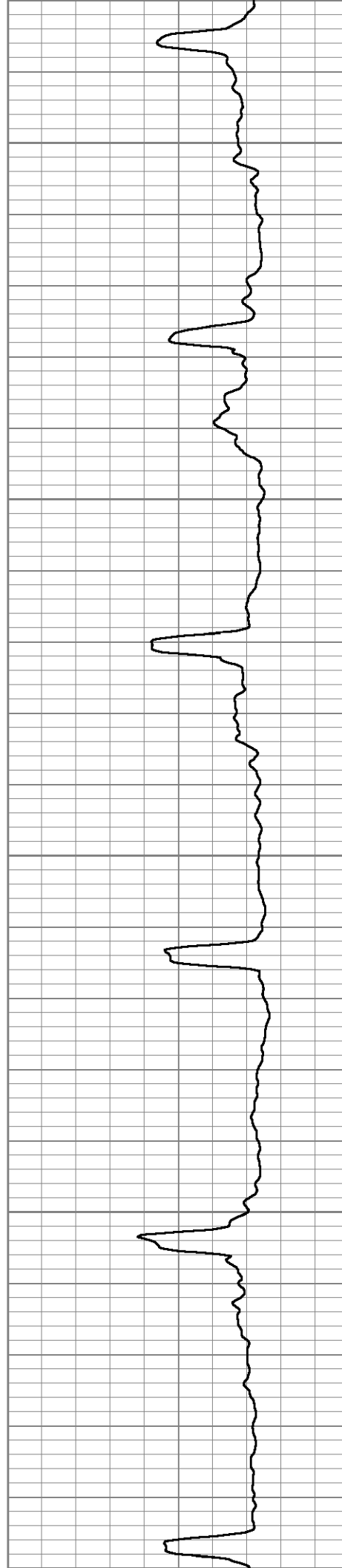
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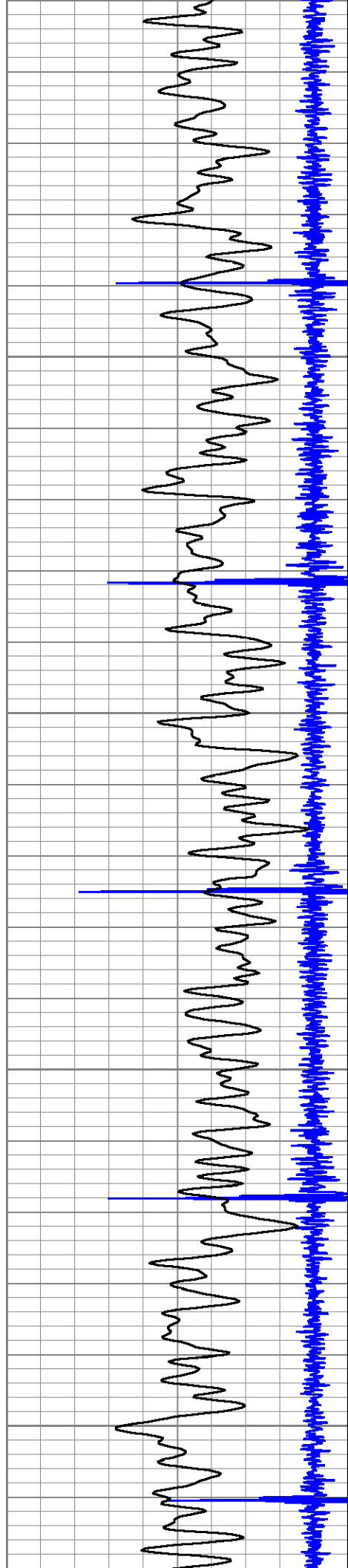
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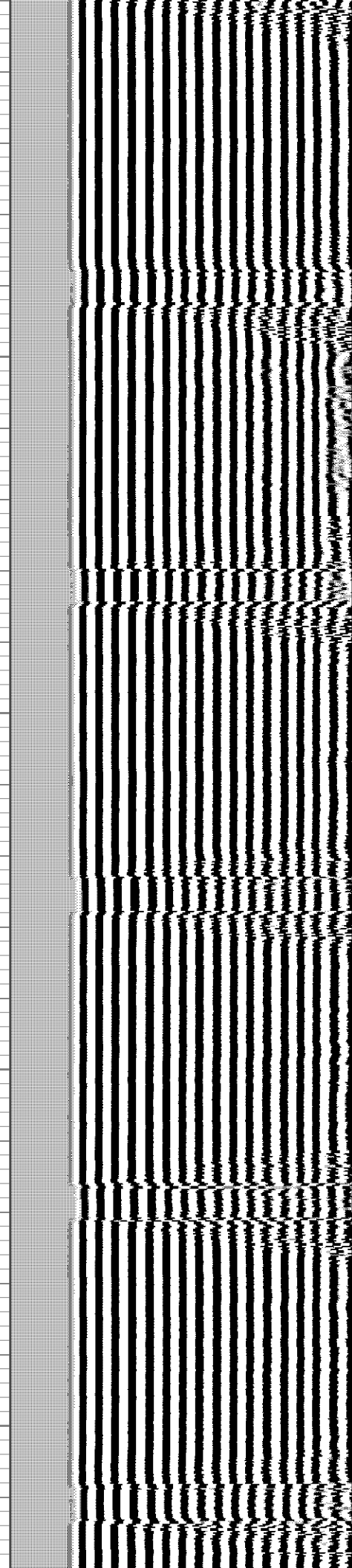
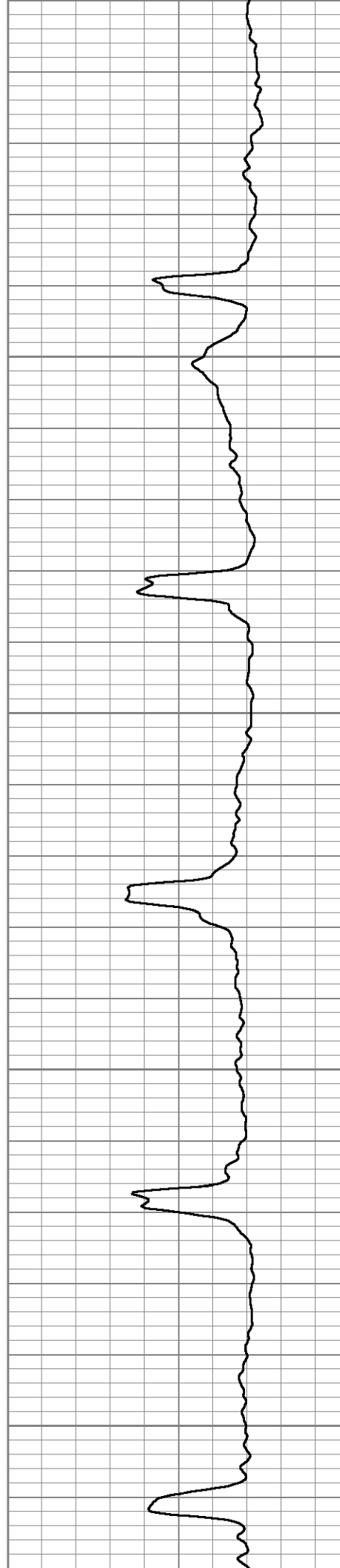
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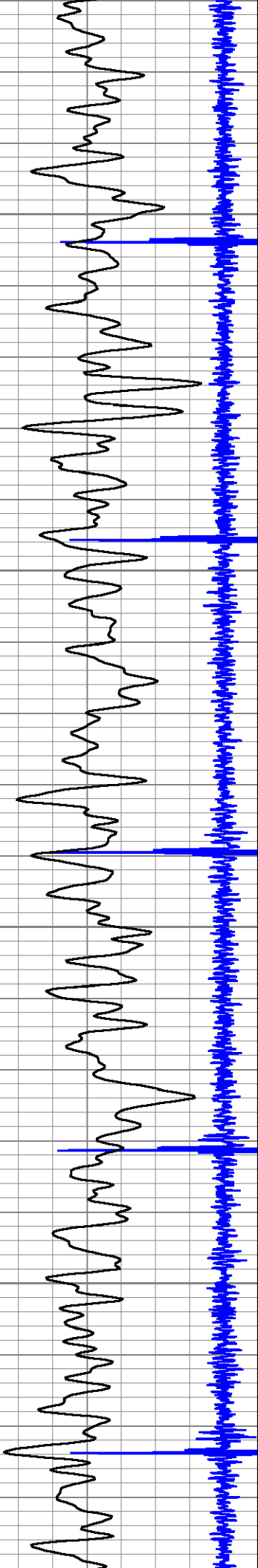
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4600
4650
4700
4750
4800



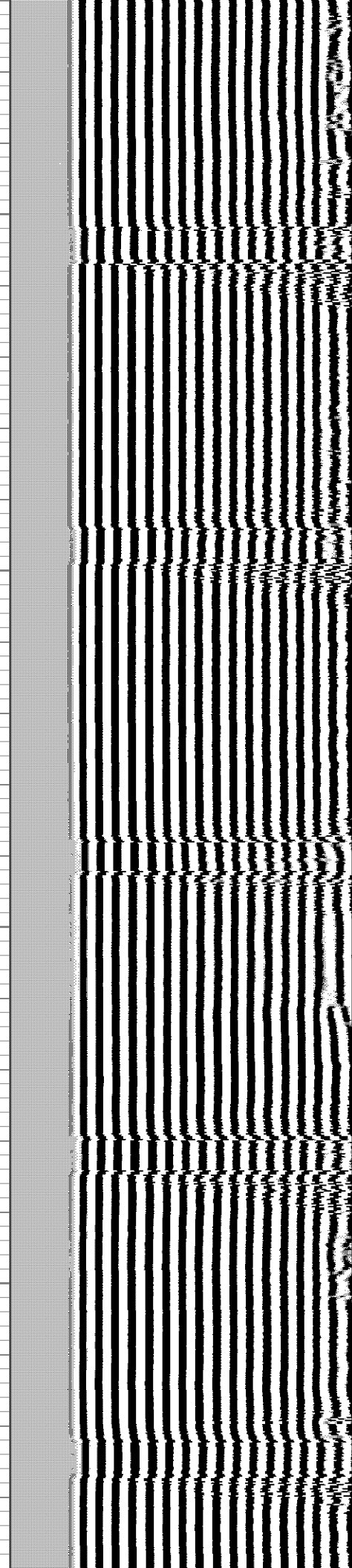
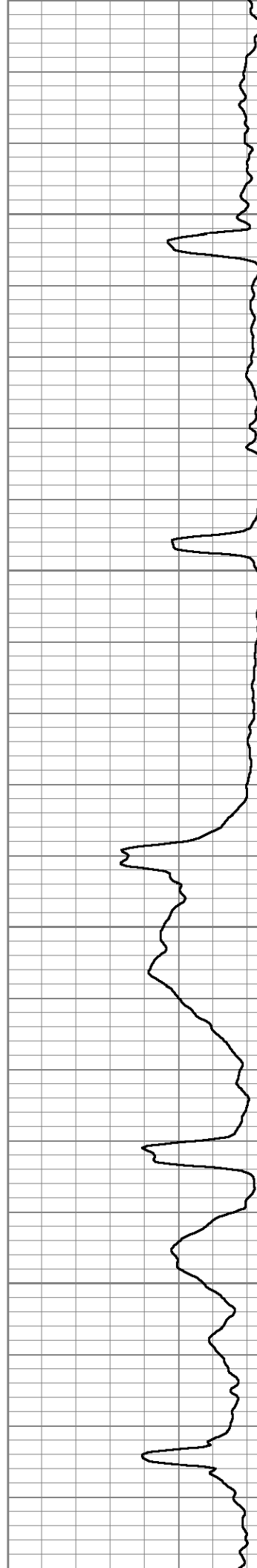


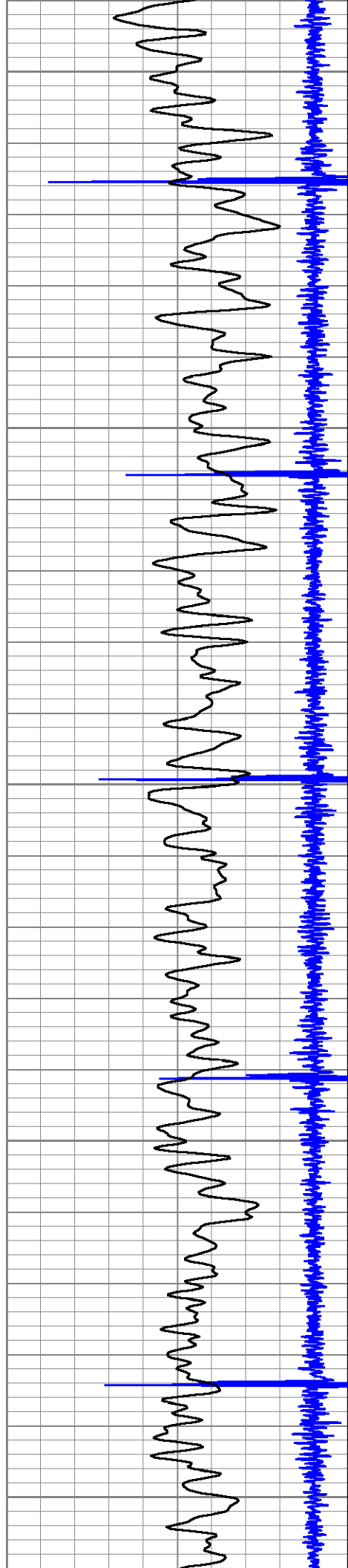
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4900

4950

5000





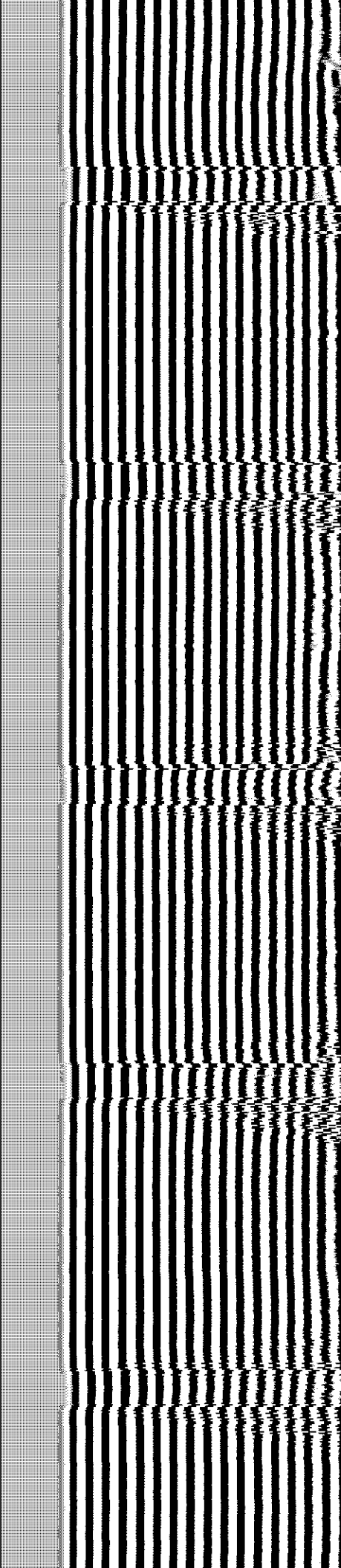
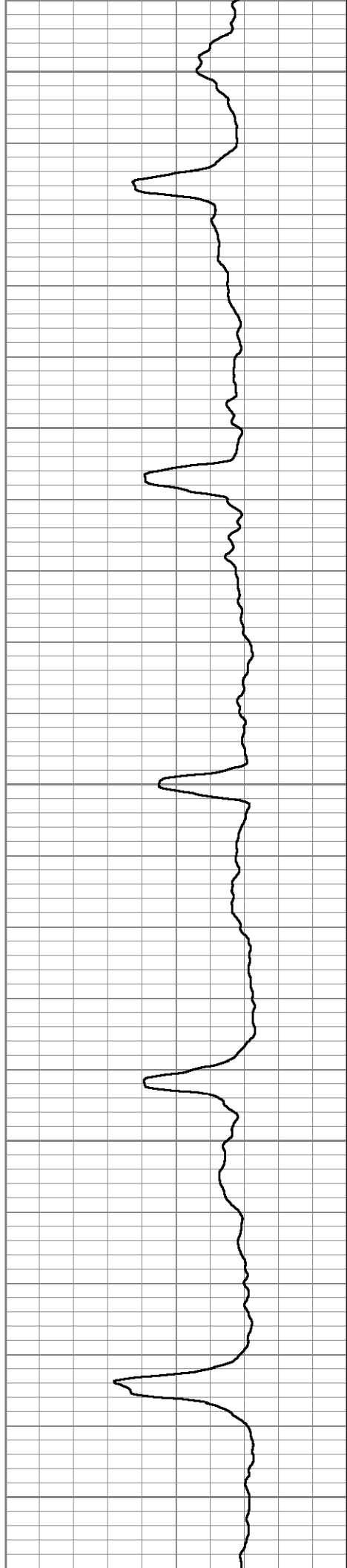
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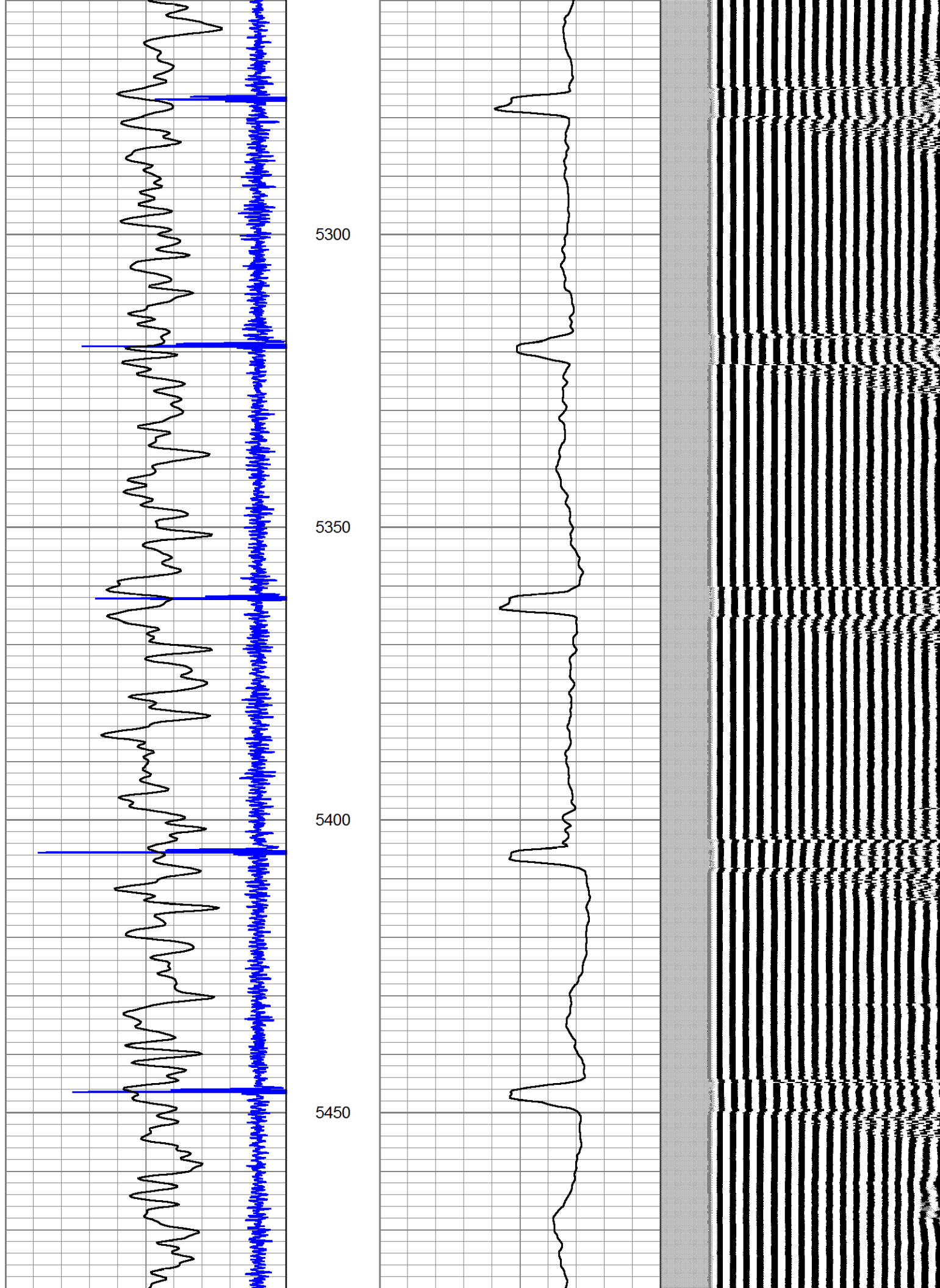
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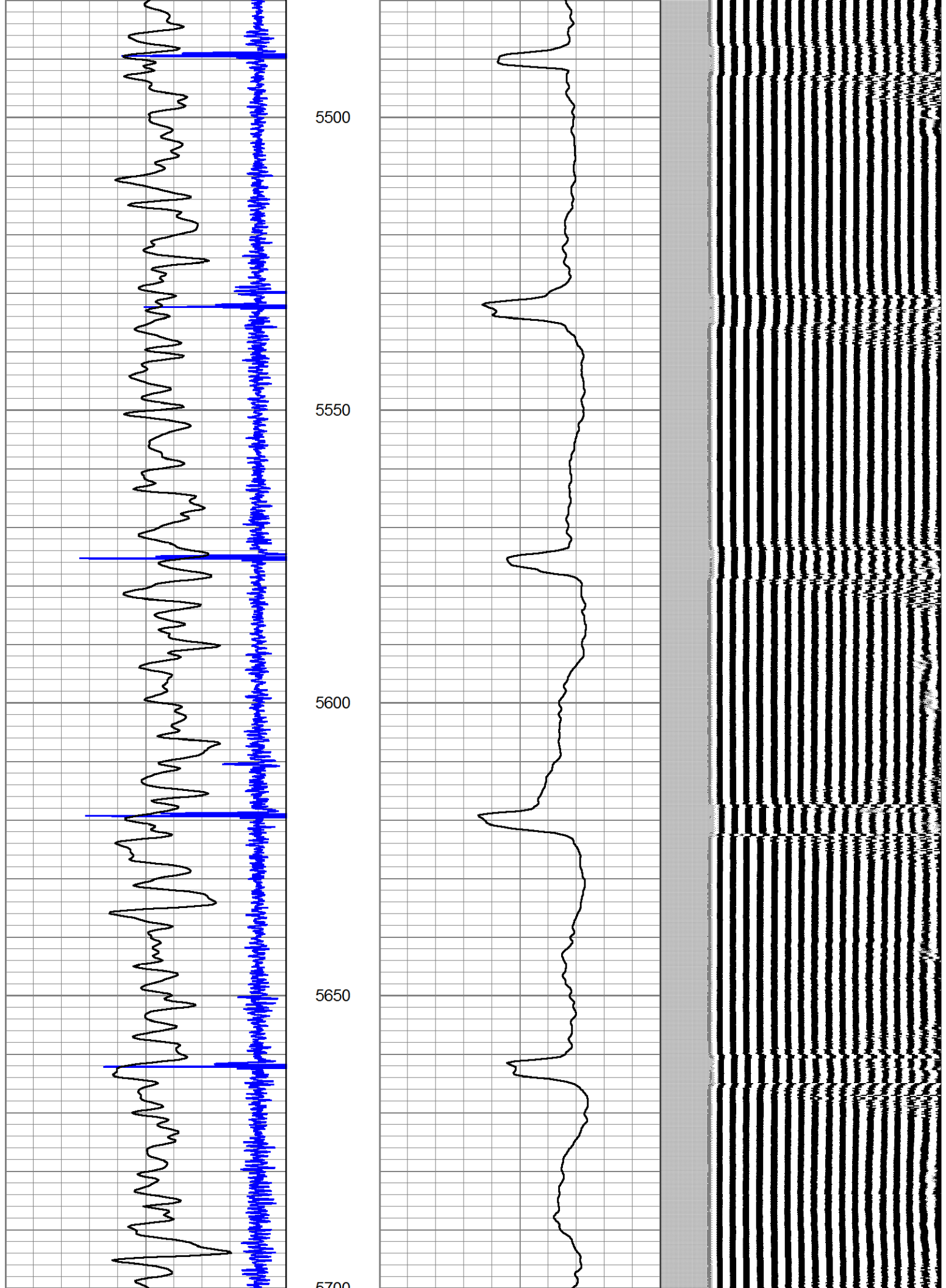
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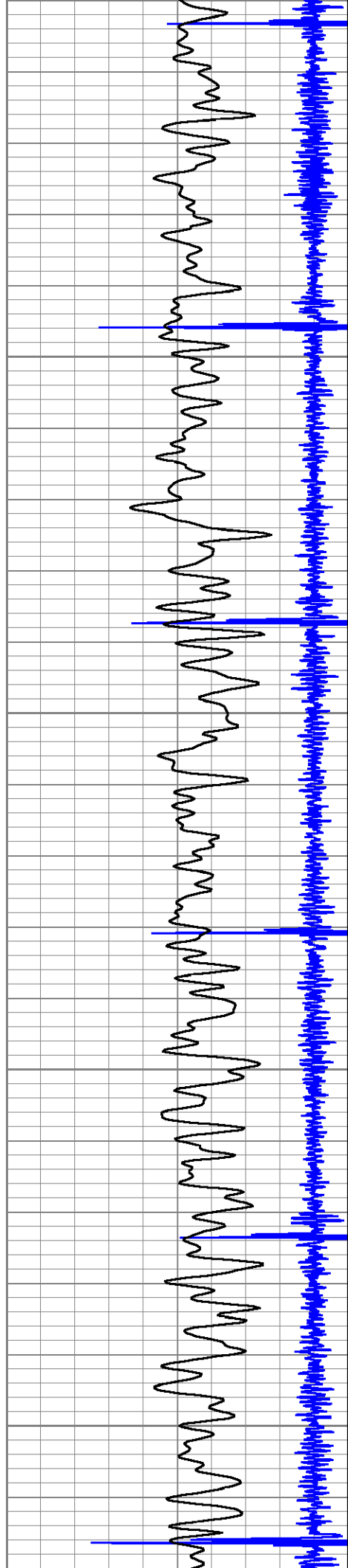
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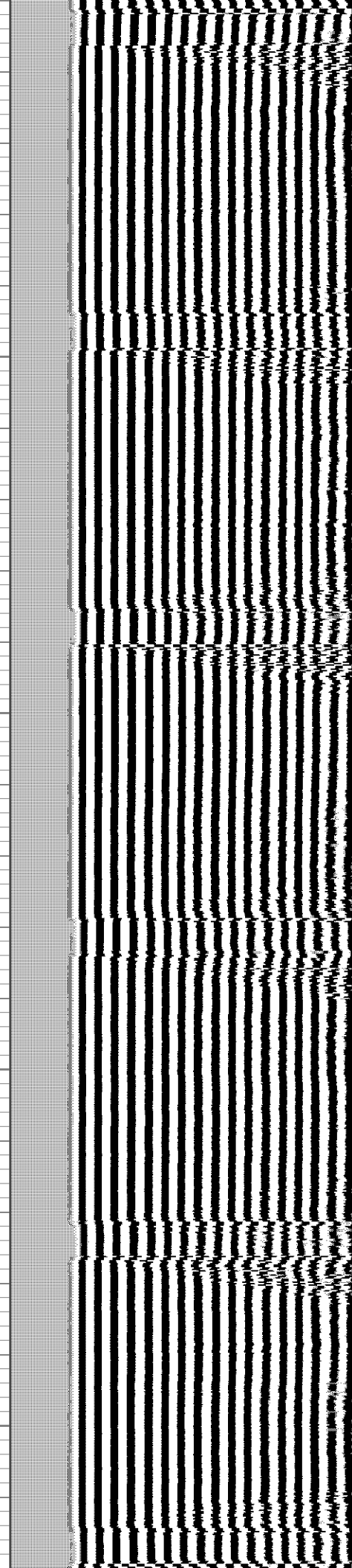
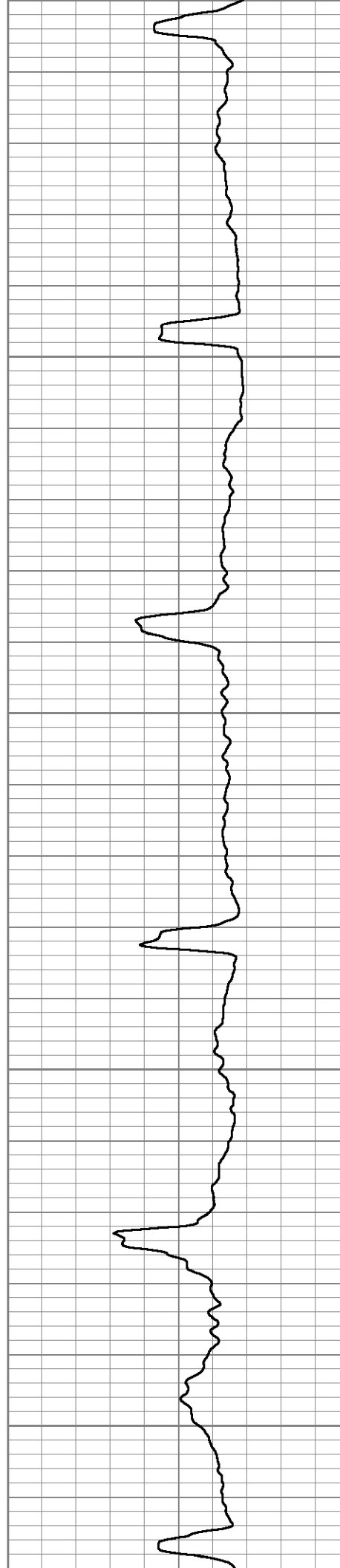
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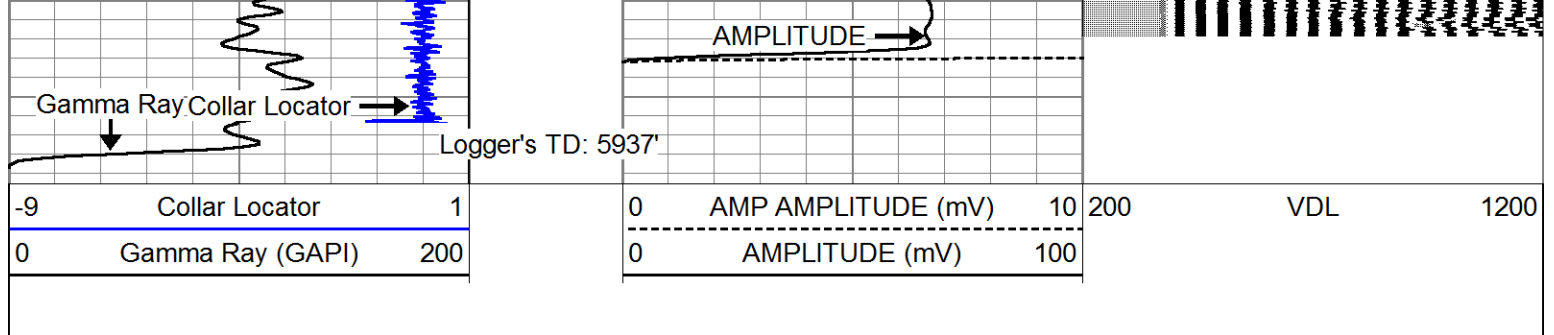
5750

5800

5850

5900





Calibration Report

Database File: 13492.db
 Dataset Pathname: final
 Dataset Creation: Sat Mar 22 11:01:12 2014

Gamma Ray Calibration Report

Serial Number: 111205
 Tool Model: probe 2.75
 Performed: Wed Feb 26 01:14:34 2014

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: 5.5Casing
 Tool Model: Probe

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 524.963 ft

Master Calibration, performed Mon Mar 10 15:37:35 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.666	0.000	71.921	83.450	-1.386
CAL	0.012	1.014				
5'	0.012	0.731	0.000	71.921	100.108	-1.249
SUM						
S1	0.004	0.658	0.000	100.000	130.000	-0.679
S2	0.012	0.639	0.000	100.000	135.000	-1.993
S3	0.013	0.628	0.000	100.000	137.369	-2.036
S4	0.013	0.636	0.000	100.000	135.480	-2.020
S5	0.013	0.650	0.000	100.000	135.878	-1.986
S6	0.013	0.660	0.000	100.000	134.473	-1.938
S7	0.013	0.670	0.000	100.000	135.067	-1.906
S8	0.012	0.654	0.000	100.000	135.910	-1.932

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	0.012	1.014	1.000	0.000

	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