



# RADIAL ANALYSIS BOND LOG

## Baker Atlas

File No:	Company	WPX ENERGY
CH00984	Well	FEDERAL RU 13-5
API No:	Field	RULISON
05045217690000	County	GARFIELD
	State	CO

5 7S 93W RU 23-5 PAD MABORS 576	Location SHL: 228' FNL & 2606' FWL BHL: 1242' FNL & 575' FWL	Other Services RPM
SEC 5	TWP 7S	RGE 93W

Permanent Datum	GL	Elevation	7602 ft	Elevations
Log Measured From	KB	26 ft	Above P. D.	KB 7628 ft
Drill Measured From	KB			DF
				GL 7602 ft

Date	29/DEC/13
Run	ONE
Service Order	US625078
Depth Driller	10243 ft
Depth Logger	10214 ft
Bottom Logged Interval	10204 ft
Top Logged Interval	26 ft
Time Started	8:30
Time Finished	12:30
Operator Rig Time	4 HOURS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	80 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	245 degF
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JCT.
Recorded By	NEWELL
Witnessed By	JEFF DUCY

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
13.5 in	0 ft	1141 ft
8.75 in	1141 ft	10318 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1141 ft
4.5 in	11.6 lbm/ft		0 ft	10318 ft

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 9 feet.
Logged with zero PSI at wellhead.
BHT = 245 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	1355XA	10580208	CENTRALIZED

***PRIMARY PRESENTATION***  
***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	30.130	10238.750
RAL	Amp Gate Start Near	195.000	usec	30.130	10238.750
RAL	Amp Gate Start Radial	195.000	usec	30.130	10238.750
RAL	Amp Gate Width Far	25.000	usec	30.130	10238.750
RAL	Amp Gate Width Near	25.000	usec	30.130	10238.750
RAL	Amp Gate Width Radial	25.000	usec	30.130	10238.750
RAL	casing od	4.500	inches	30.130	10238.750
RAL	casing wt	11.600	lbm/ft	30.130	10238.750
RAL	FB Start Far	291.900	usec	30.130	10238.750
RAL	FB Start Near	180.000	usec	30.130	10238.750
RAL	FB Start Radial	180.000	usec	30.130	10238.750
RAL	FB Thresh Far	10.000	mv	30.130	10238.750
RAL	FB Thresh Near	4.000	mv	30.130	10238.750
RAL	FB Thresh Radial	4.000	mv	30.130	10238.750
RAL	Fluid Travel Time	200.000	usec/ft	30.130	10238.661

**DEPTH OFFSETS**  
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		EDP2	EDP5	EEZ	TEP4	TEP8	TEP2

1426XA -10.040  
1355XA -5.620  
1355XA -1.500  
1355XA 0.000

FPR3 FPR3 TT5 TTR1 TTR2 TTR3  
TTR4 TTR5 TTR6 TTR7 TTR8 XAMP  
AFAR SIG TT5  
CCL  
GR  
TEMP

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

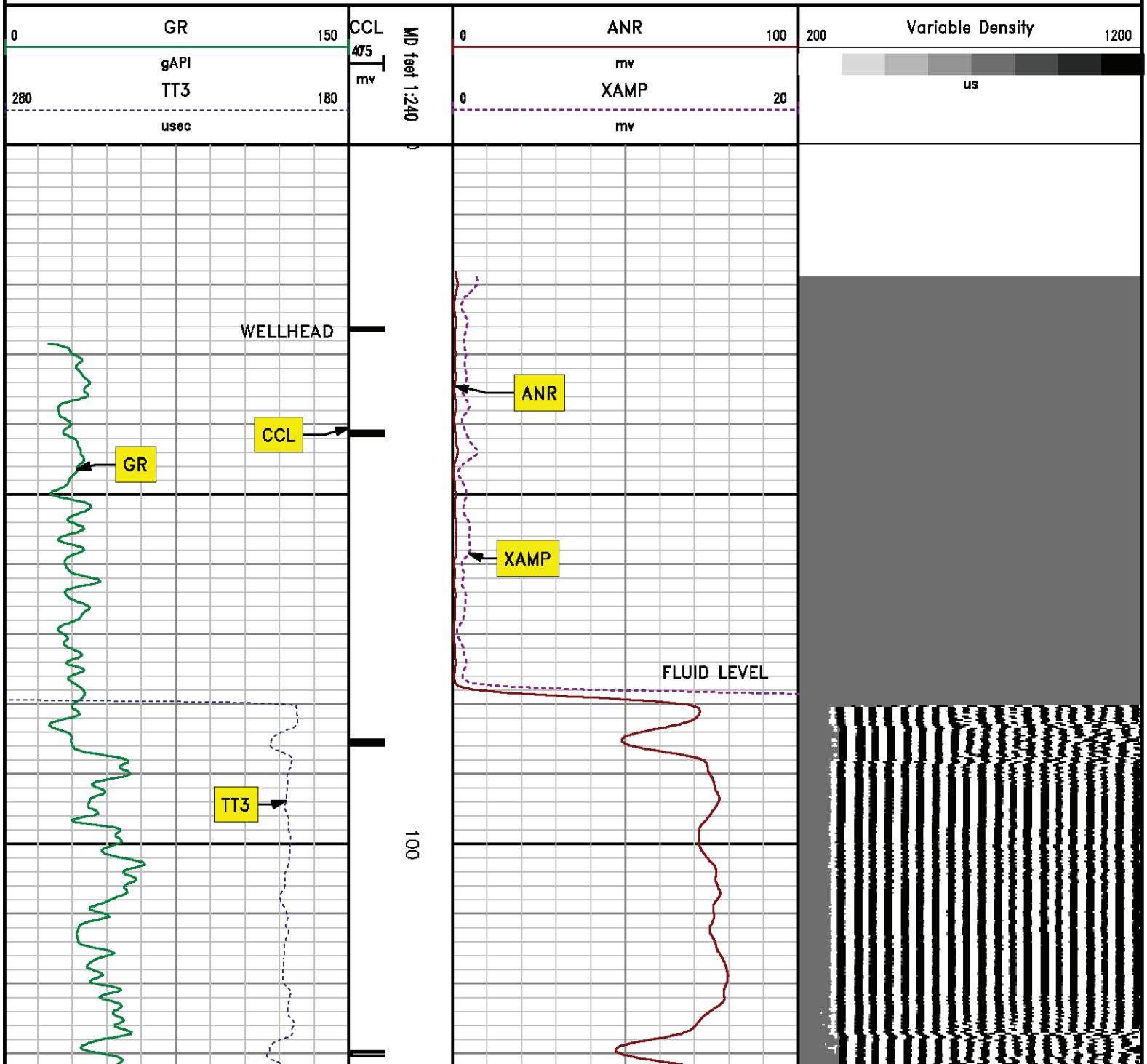
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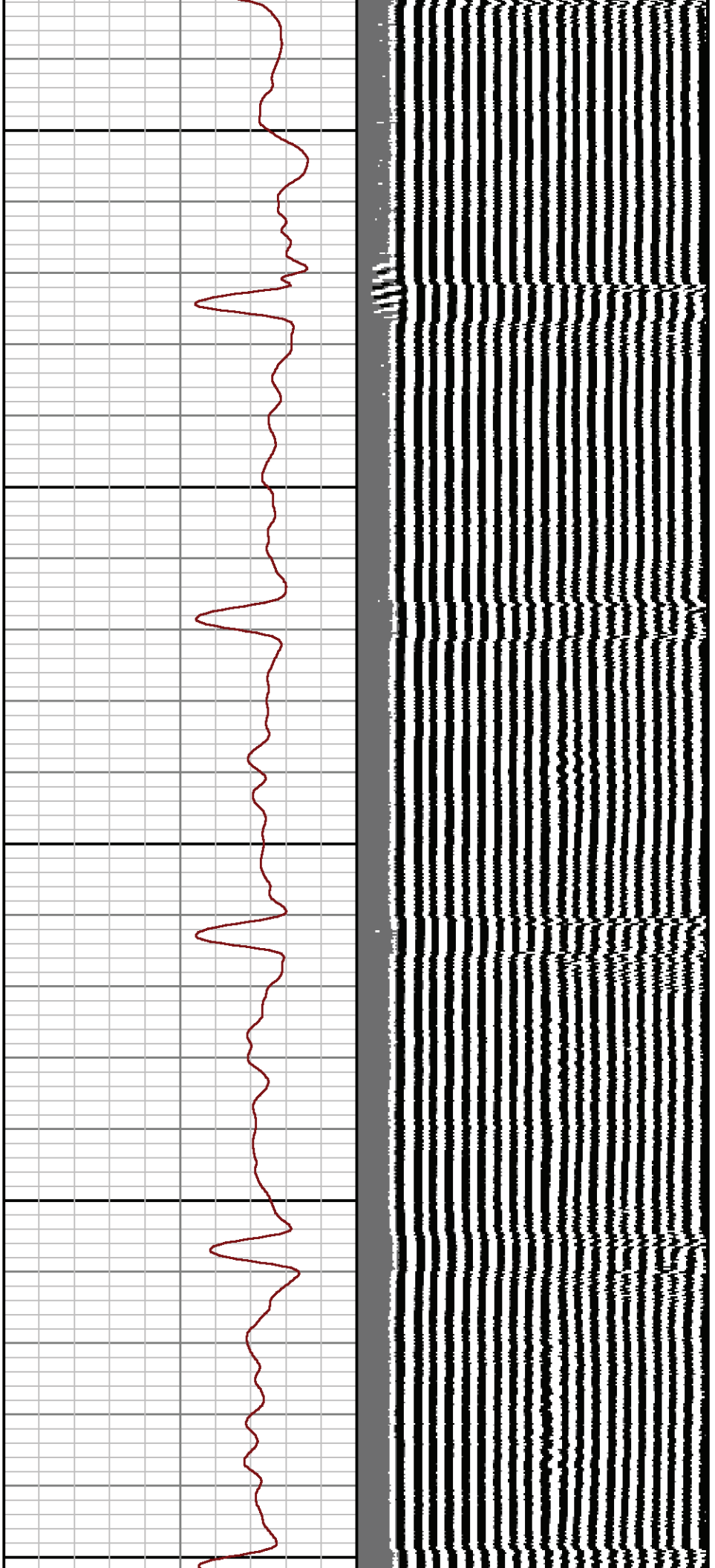
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Interval : 0.00 - 10219.00 feet UP

Created : 12/29/2013 9:57:17 AM

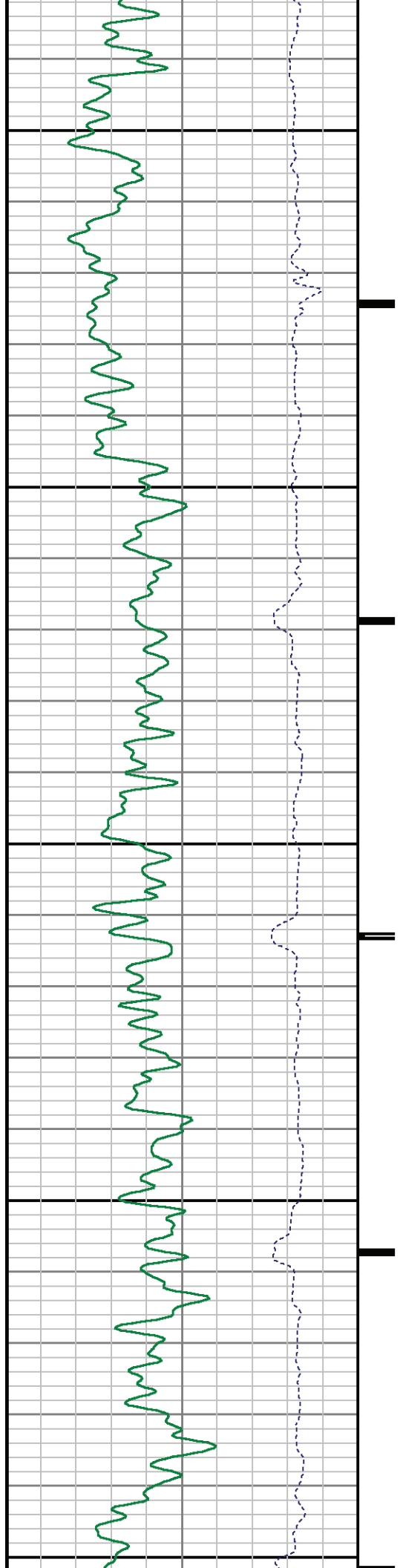


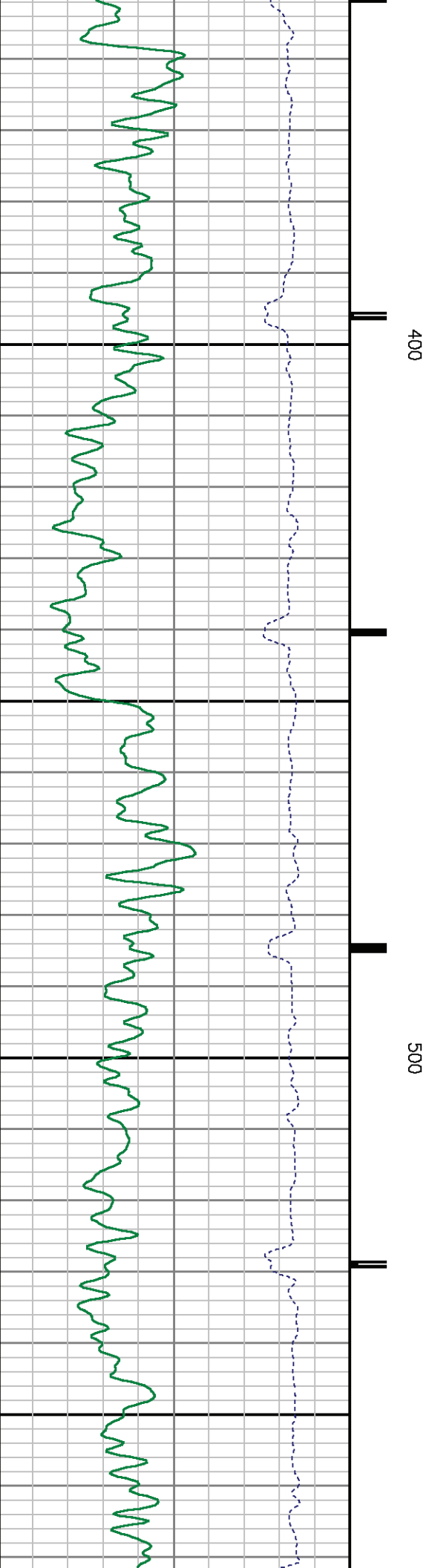
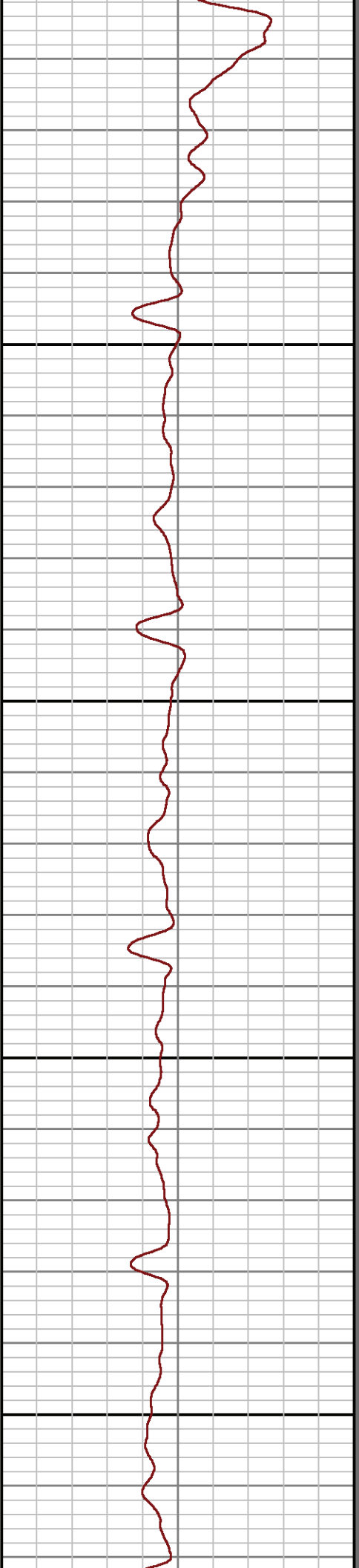
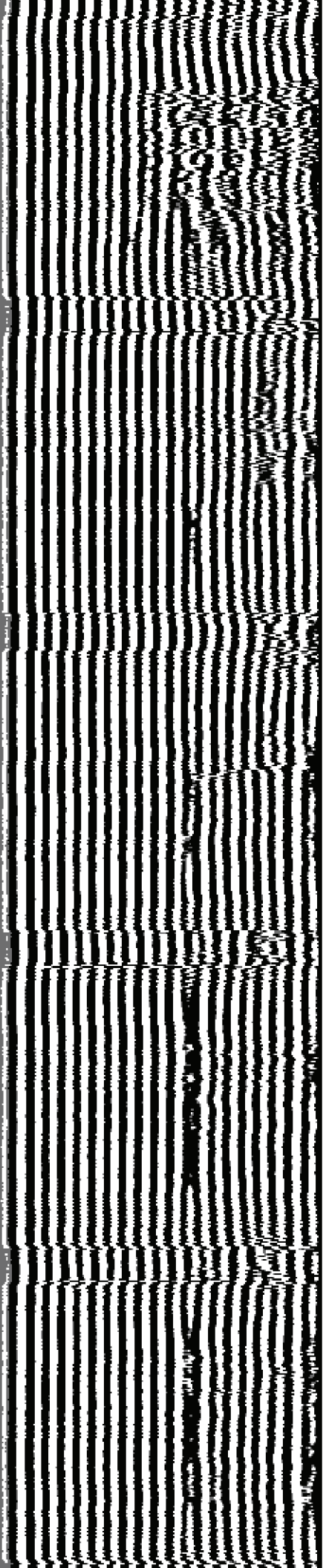
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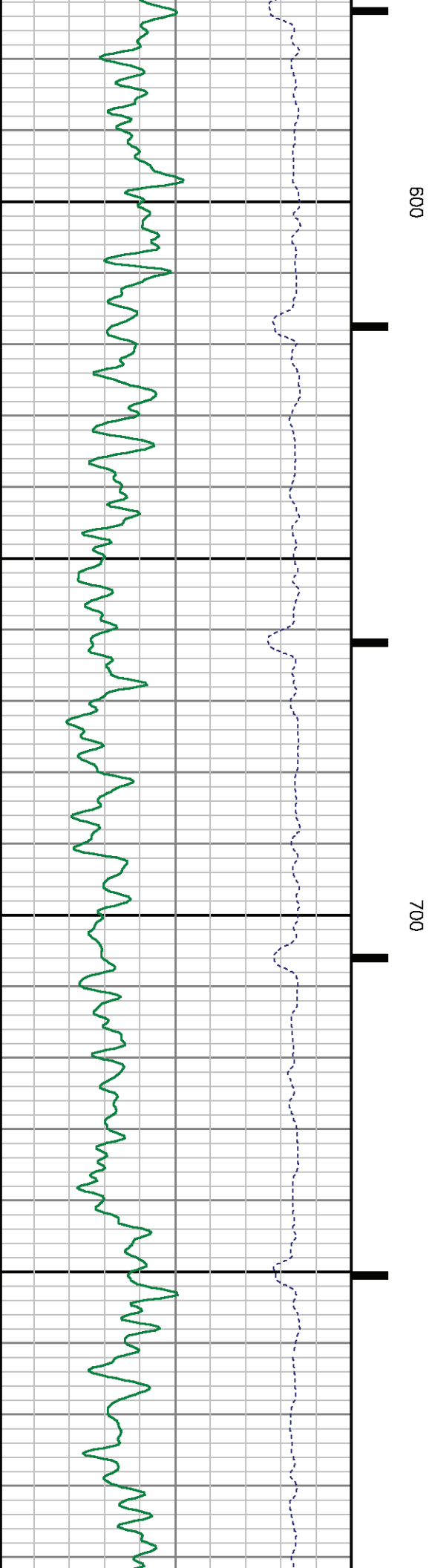
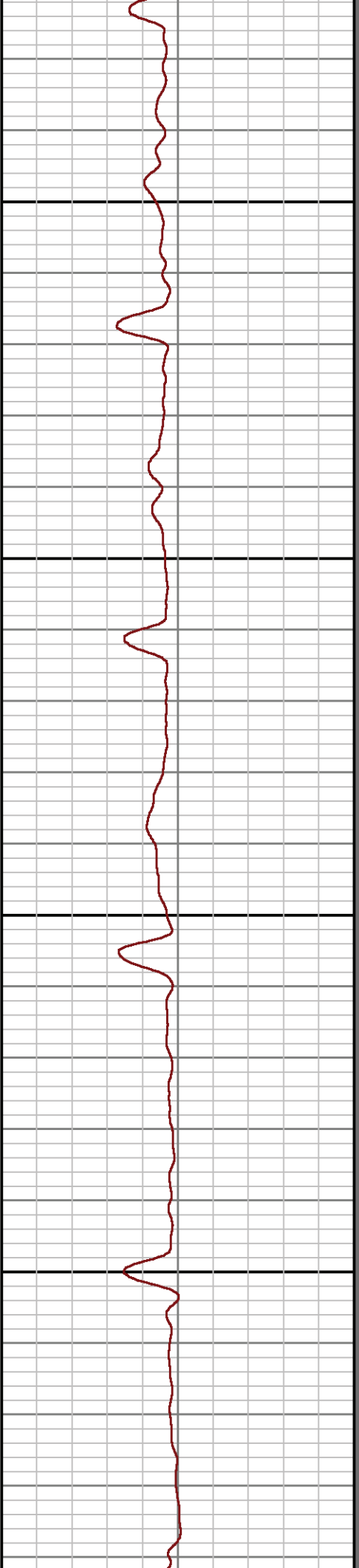
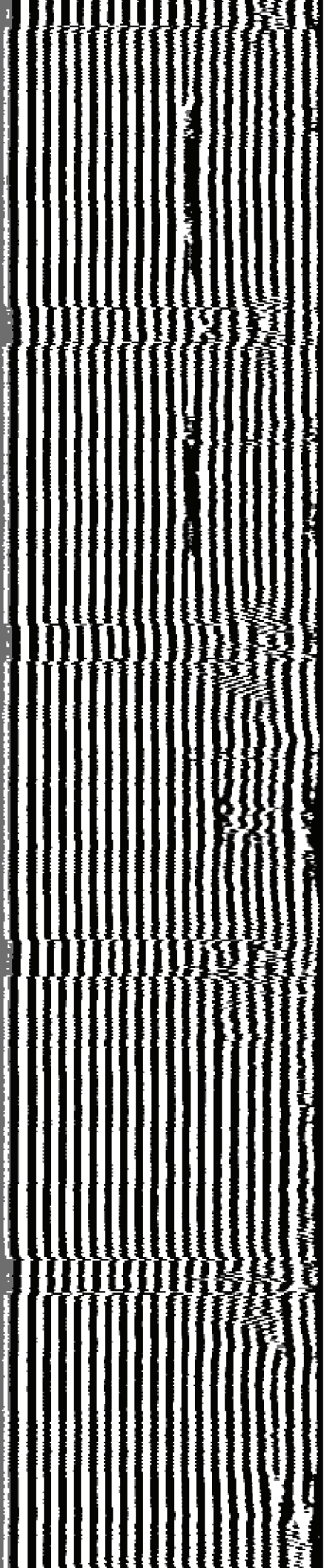


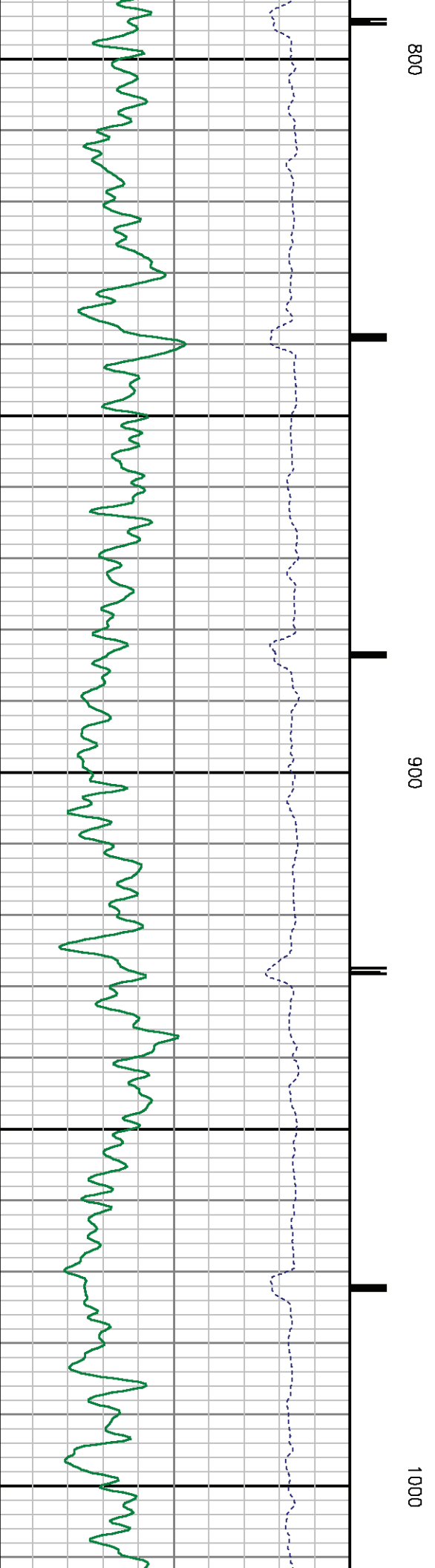
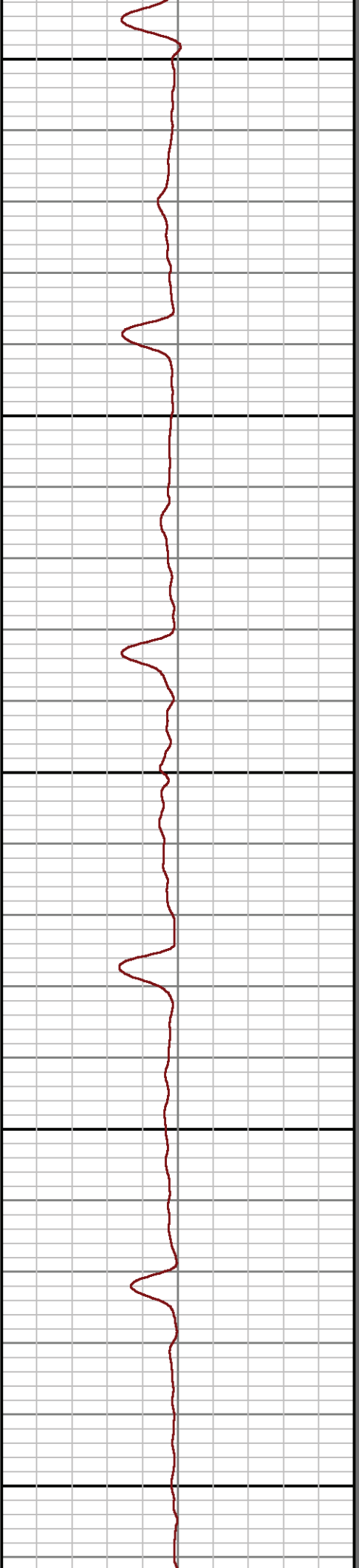
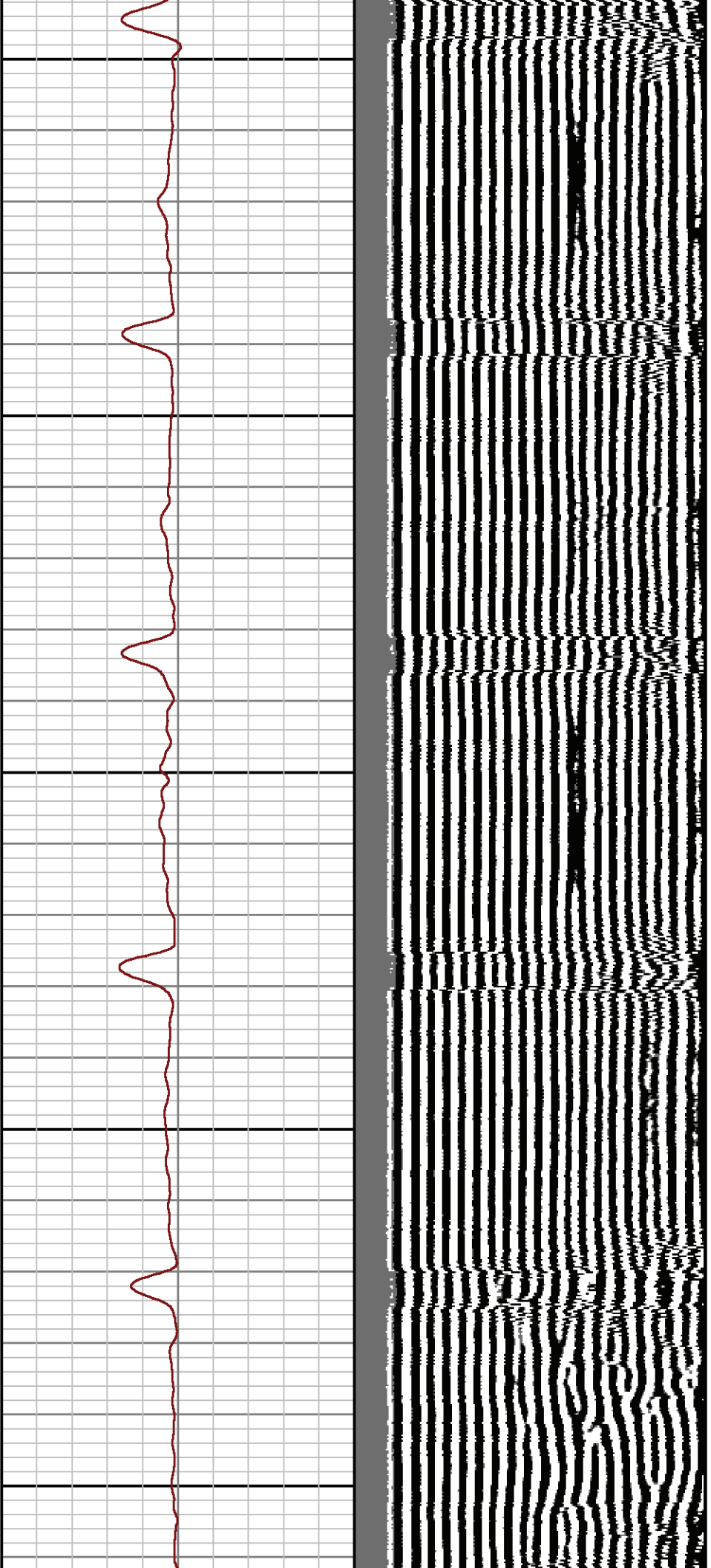
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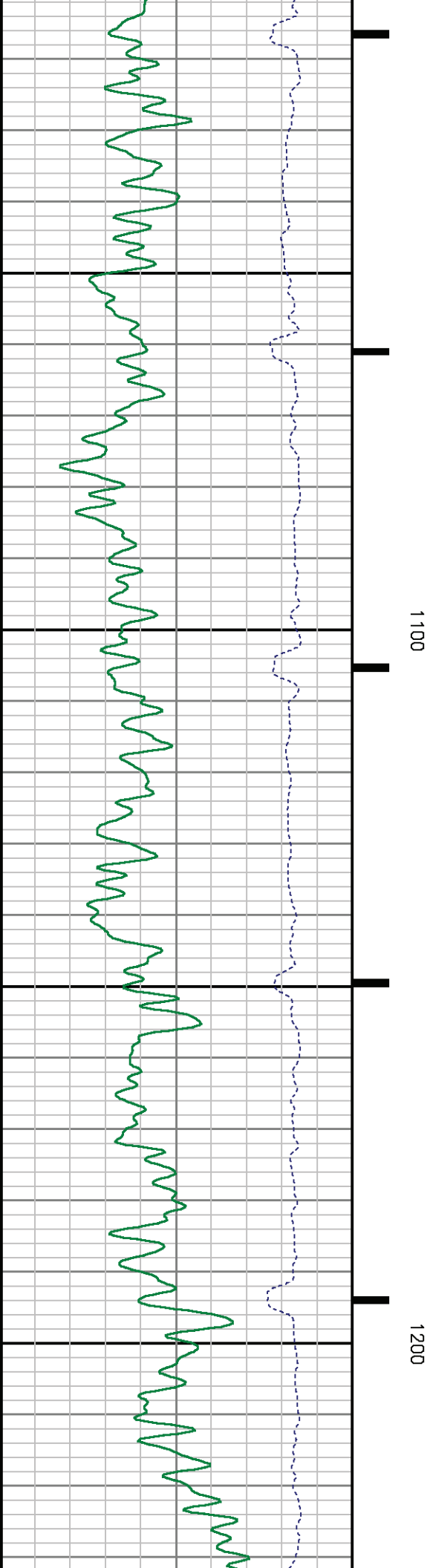
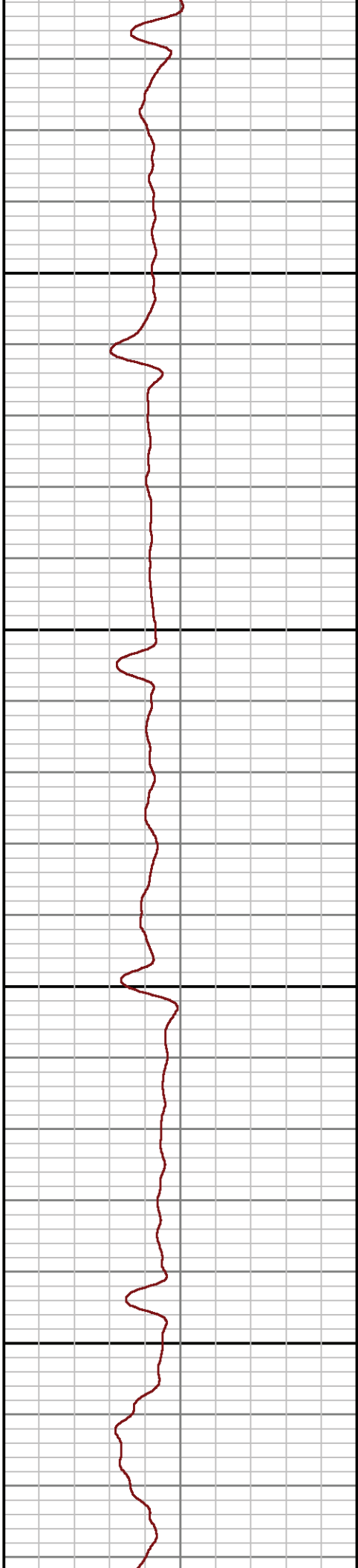
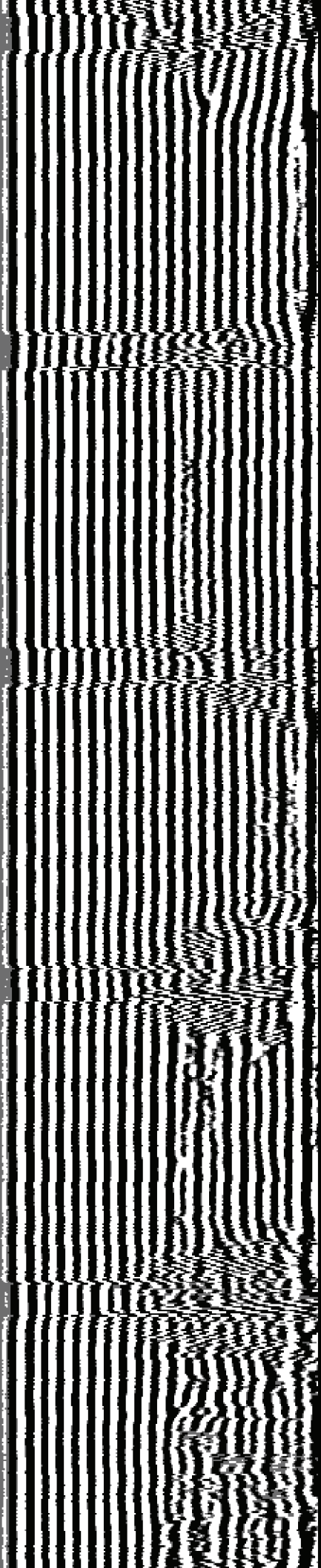




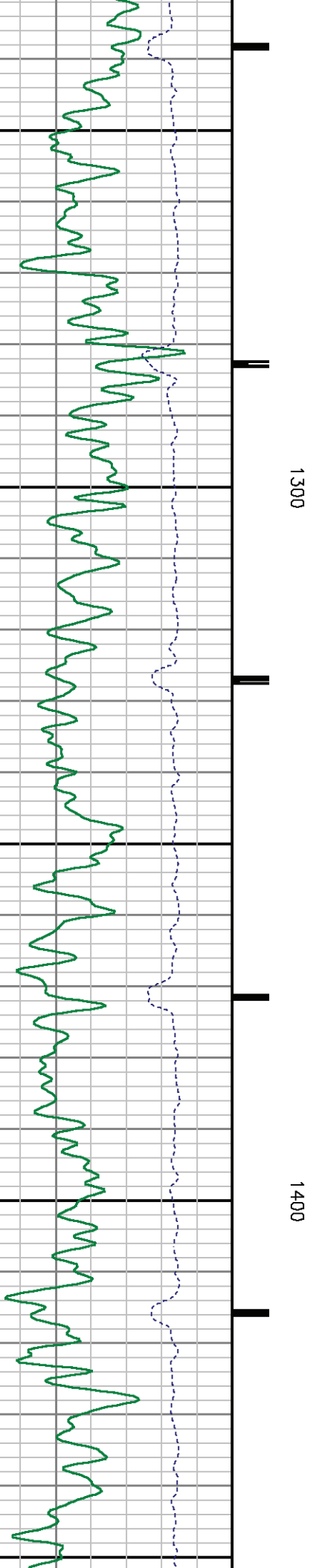
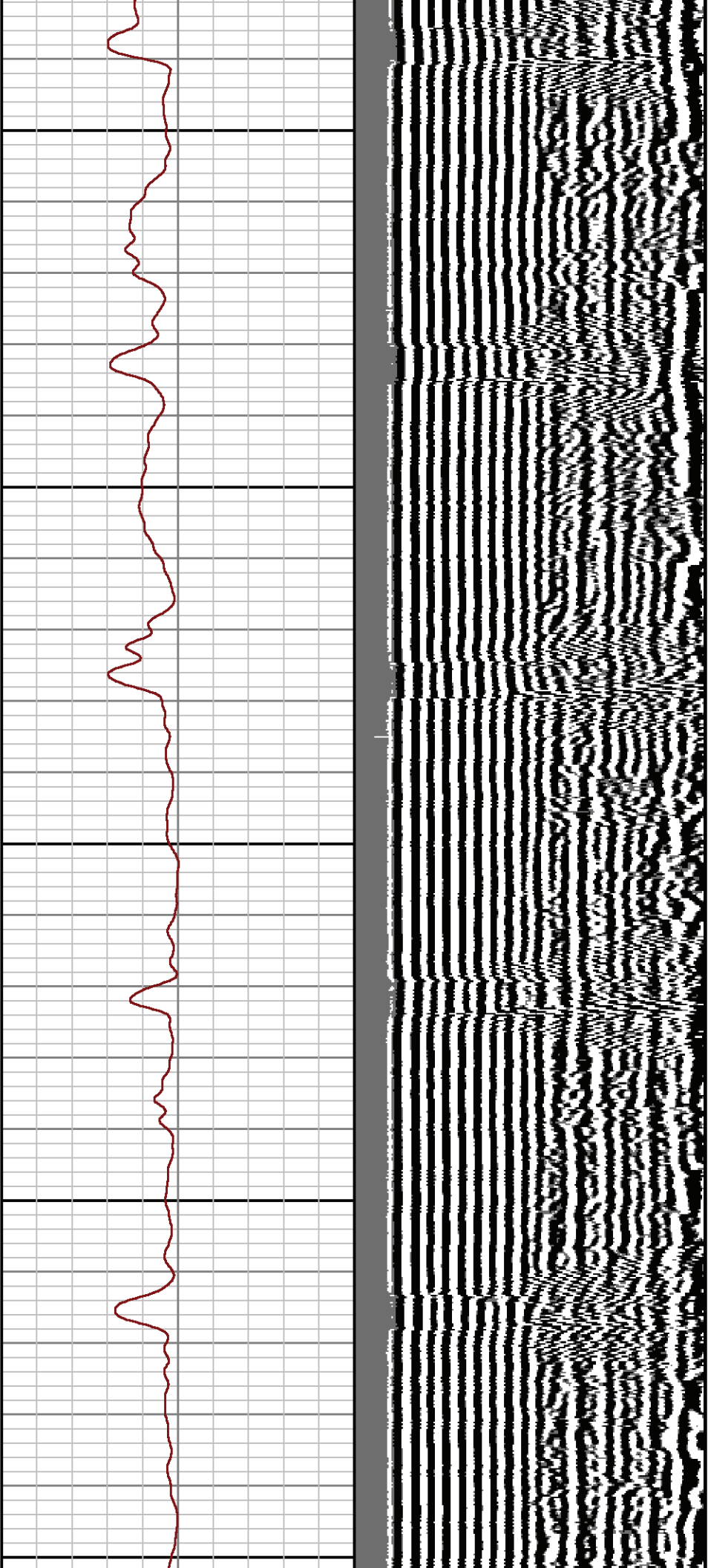


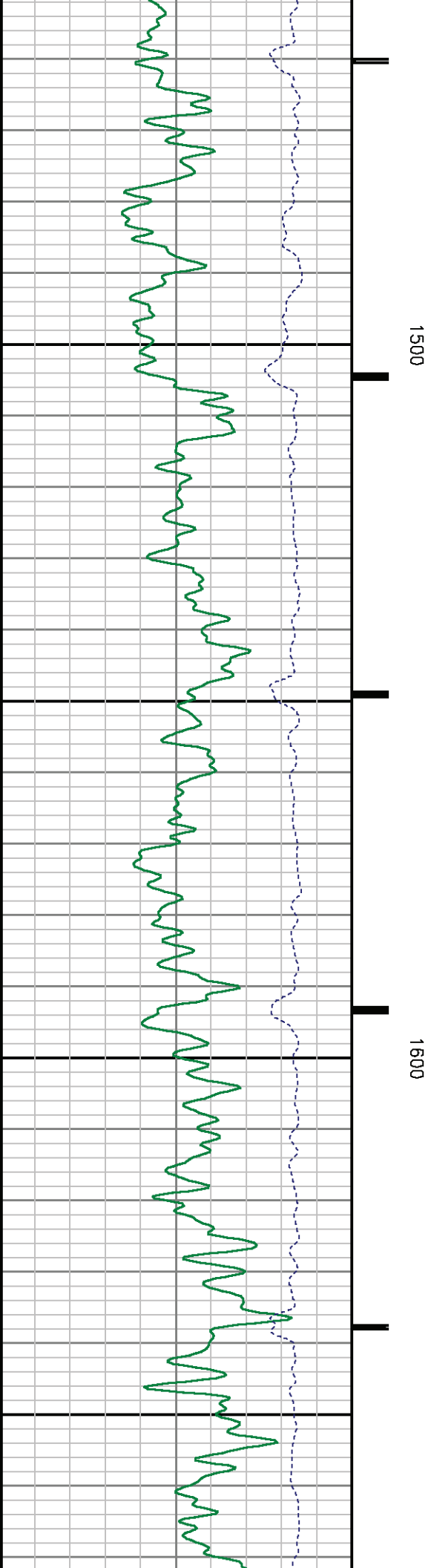
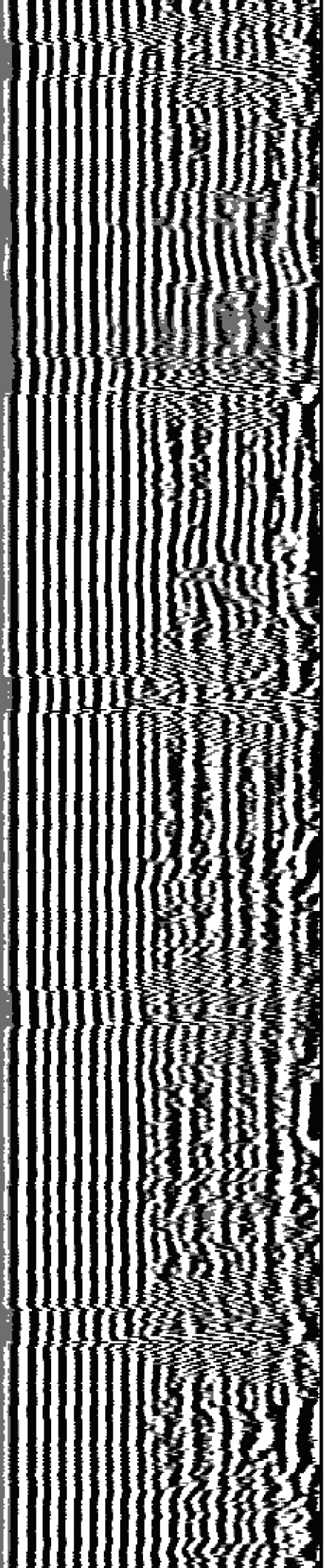


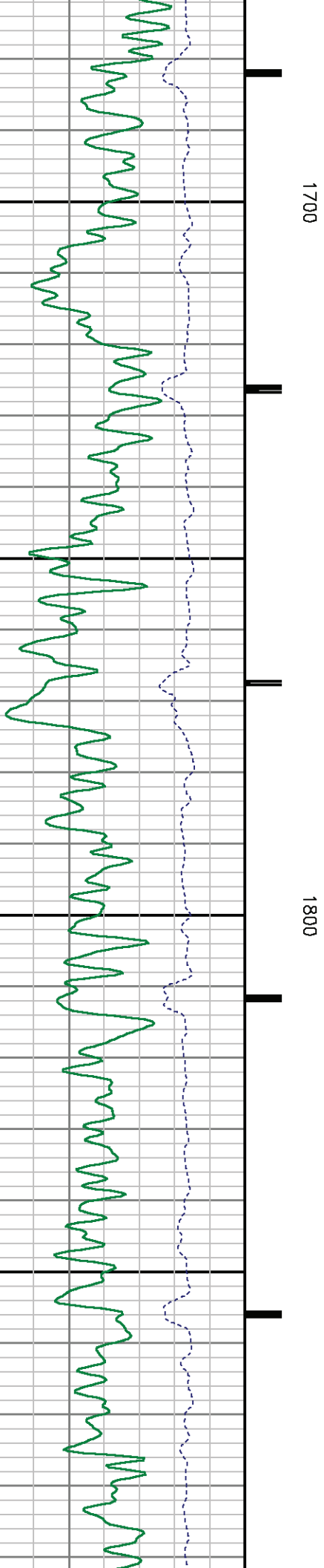
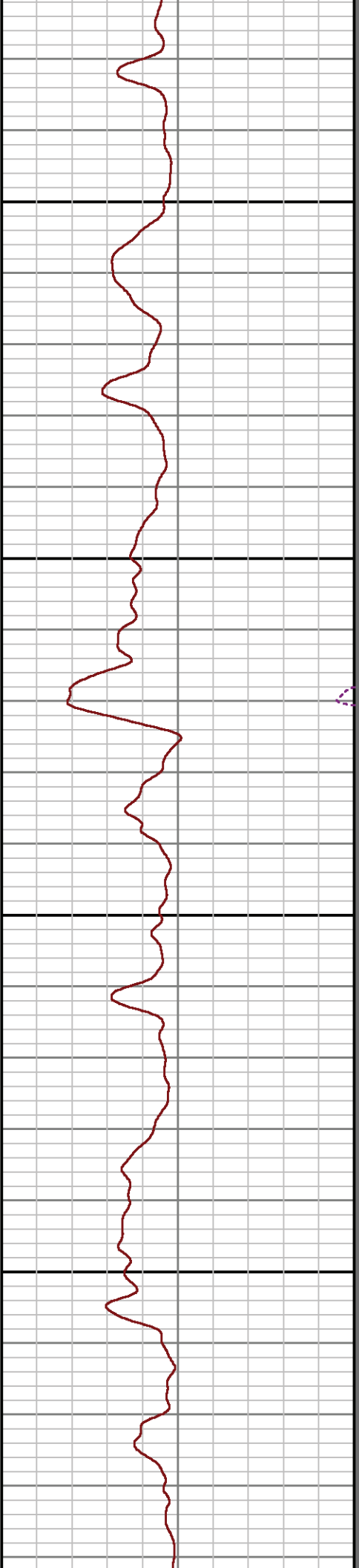
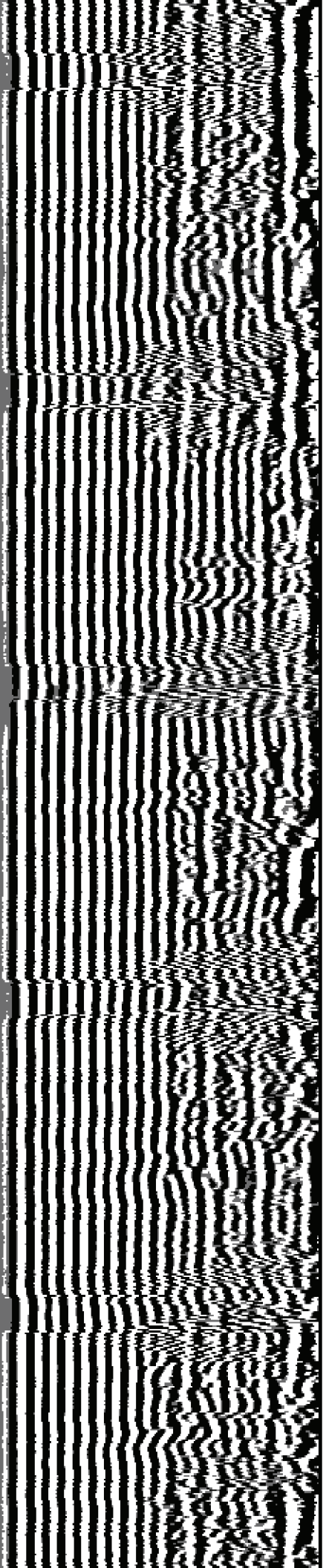


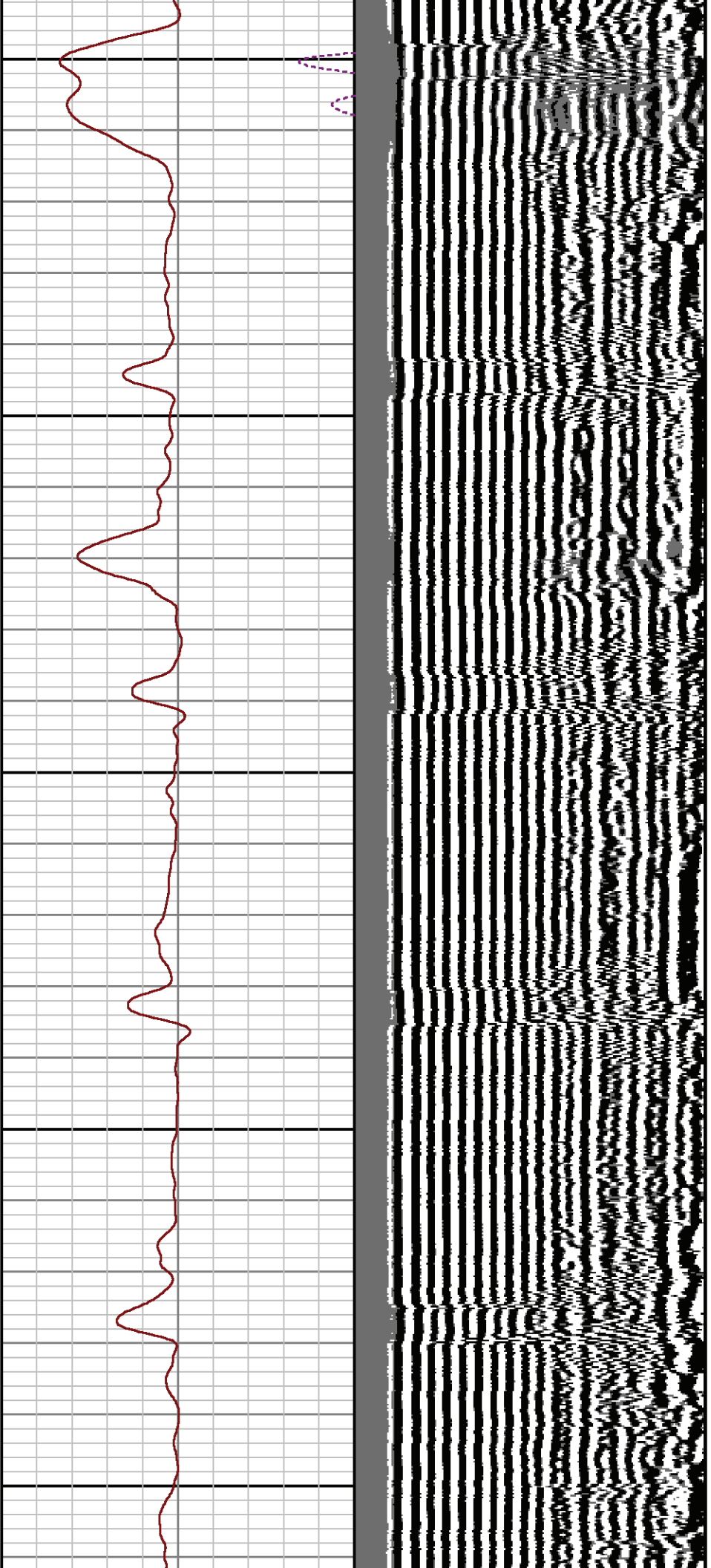








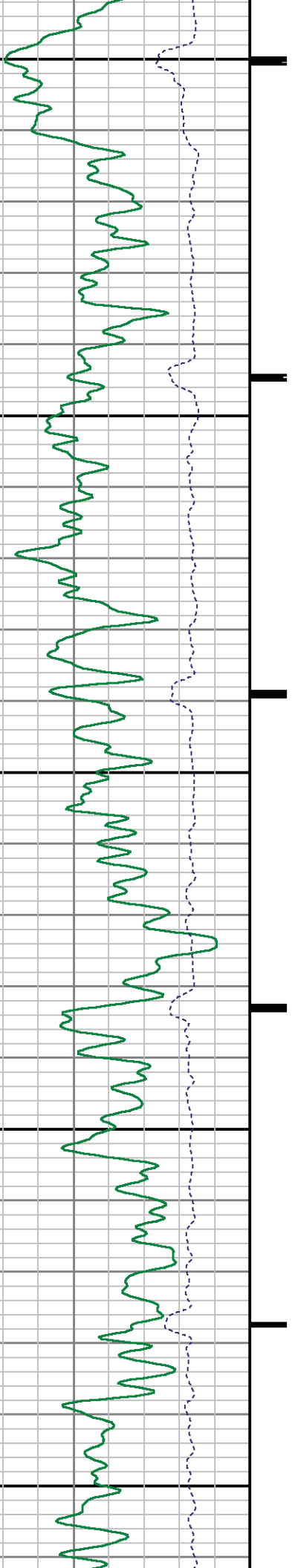


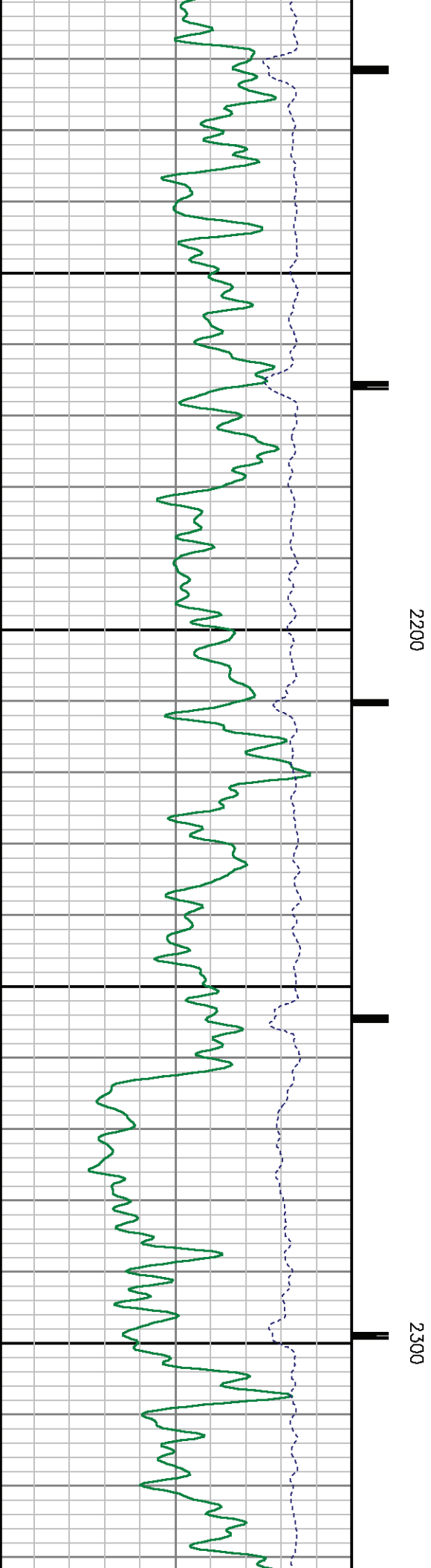
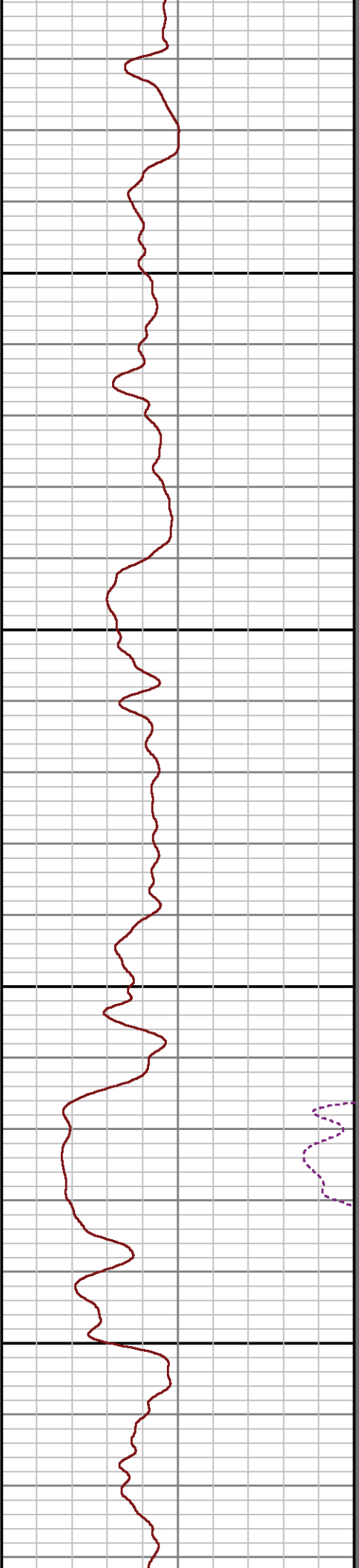
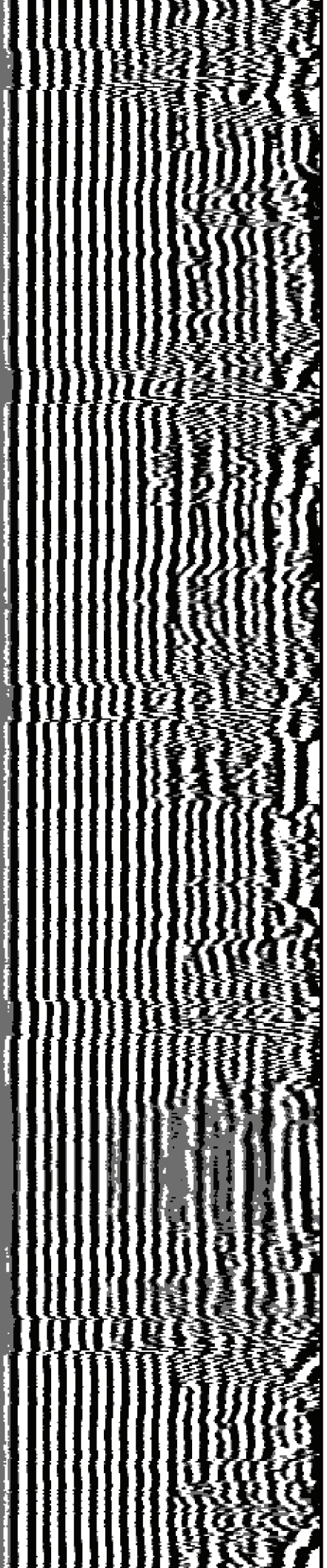


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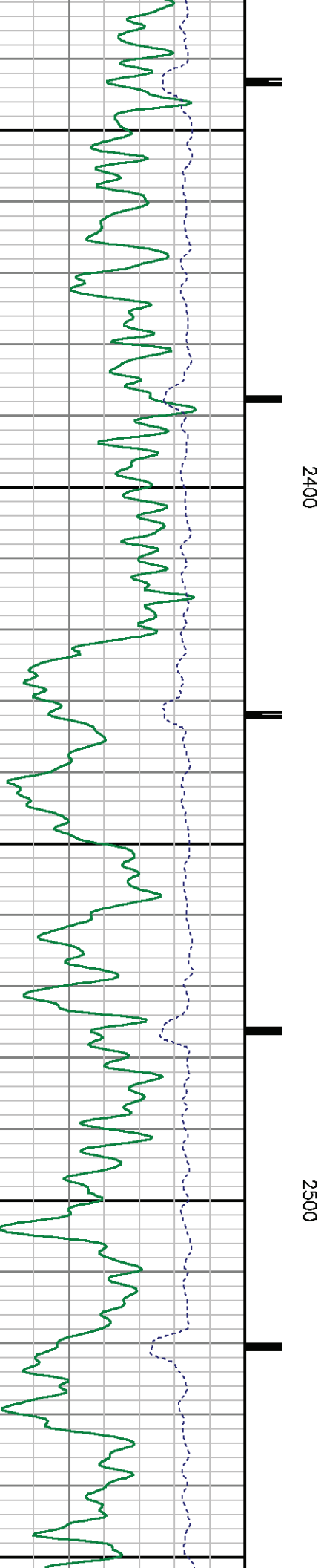
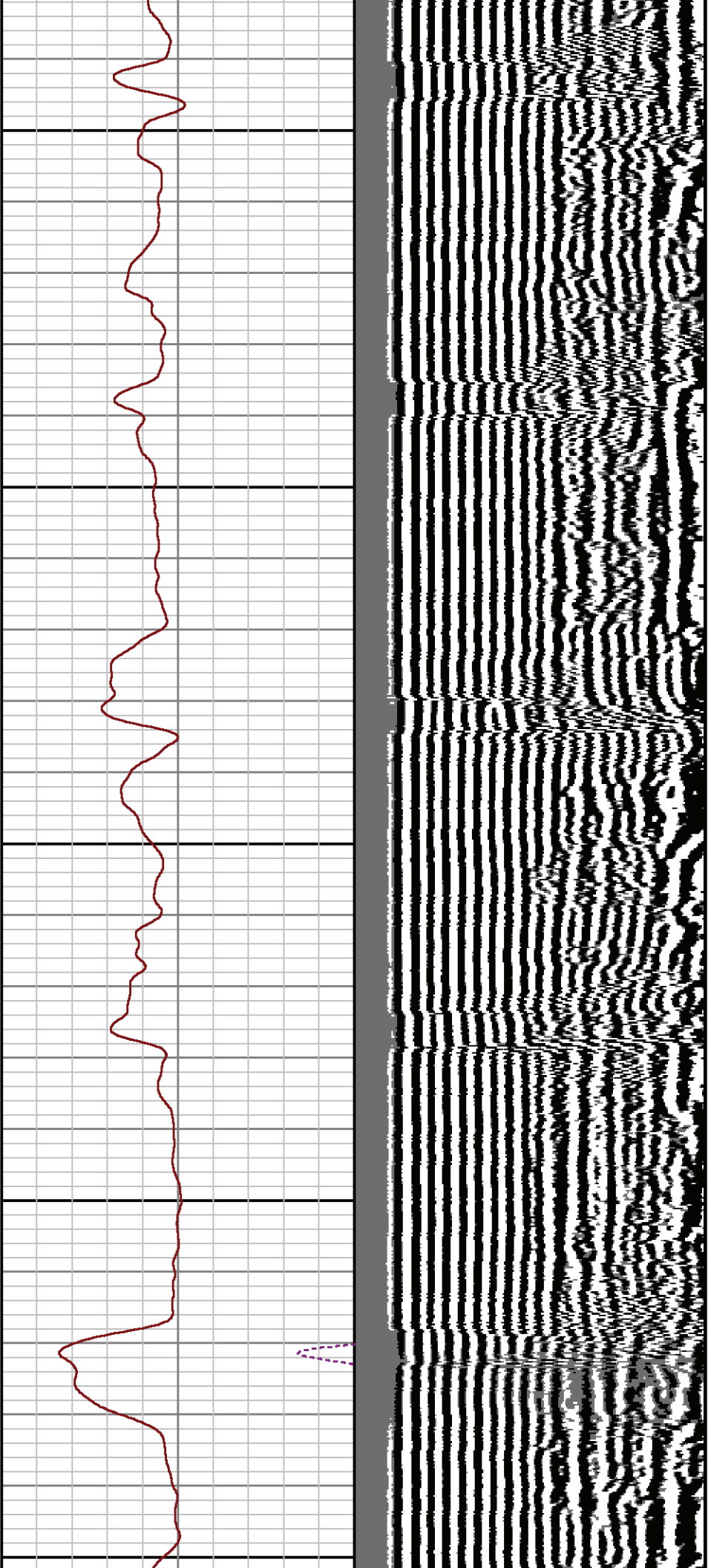
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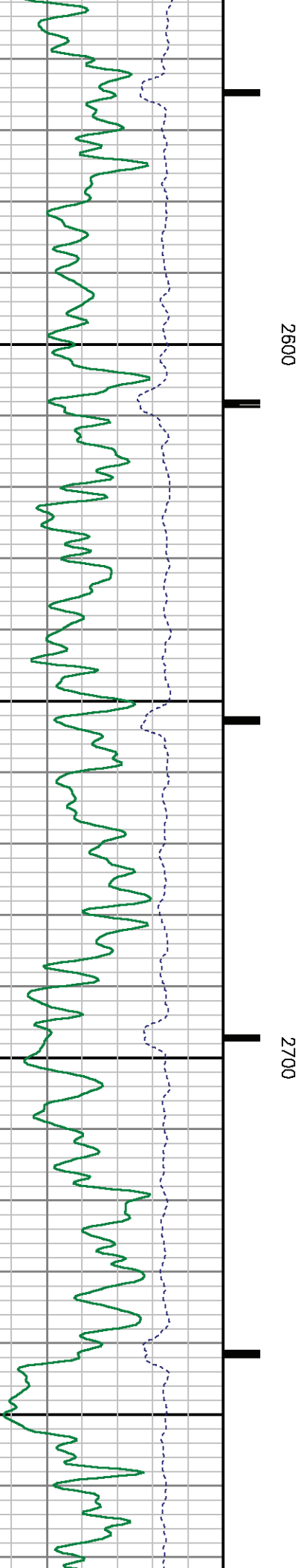
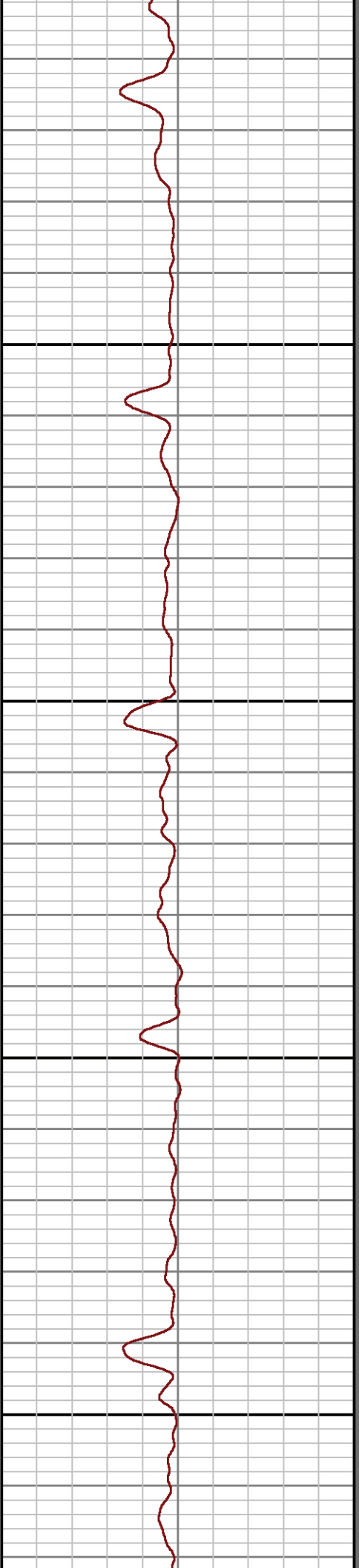
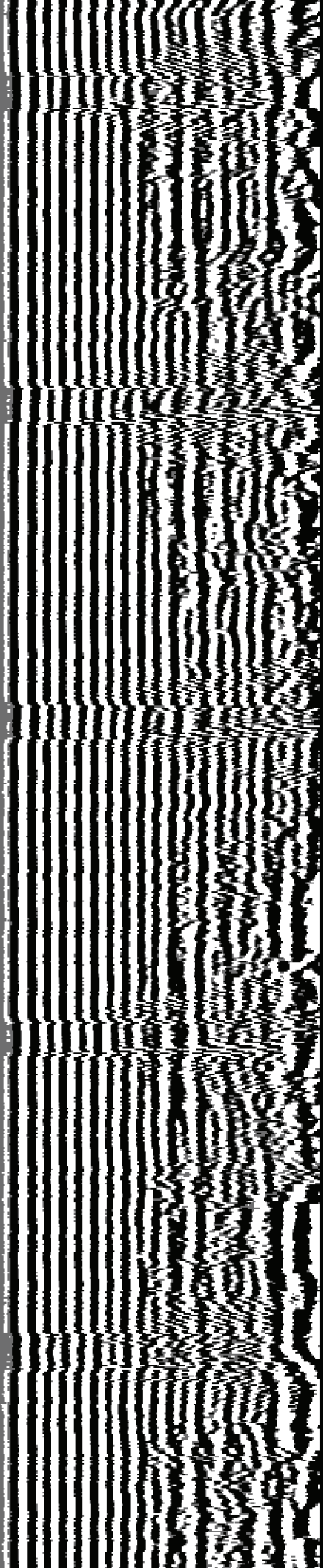
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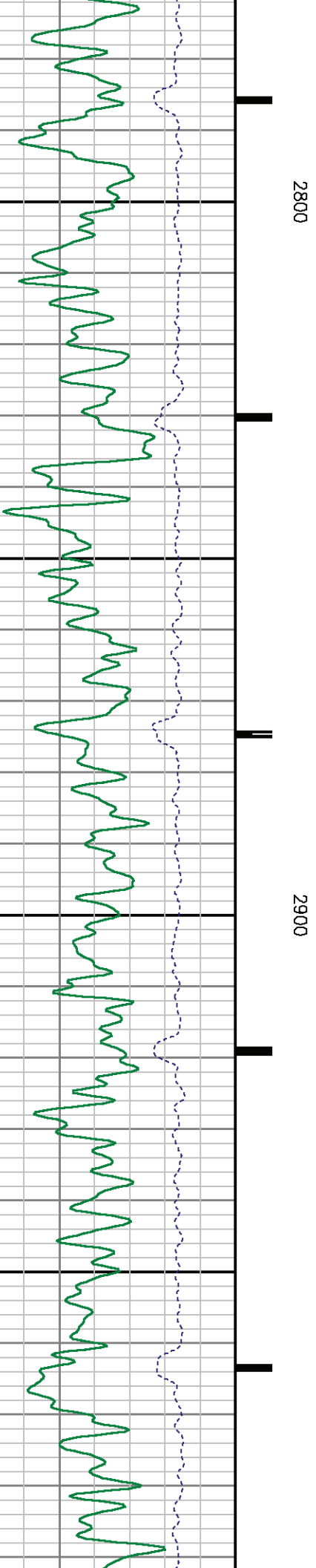
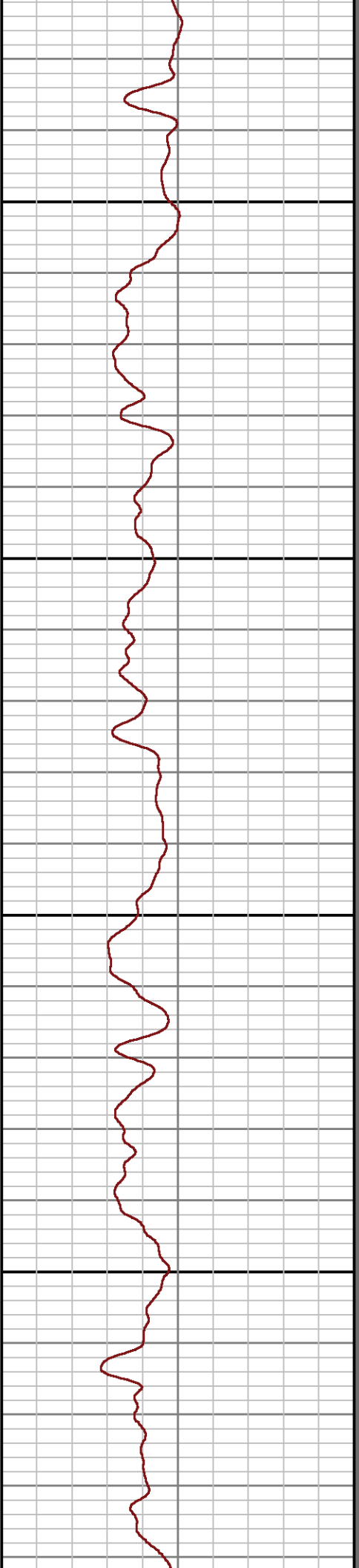
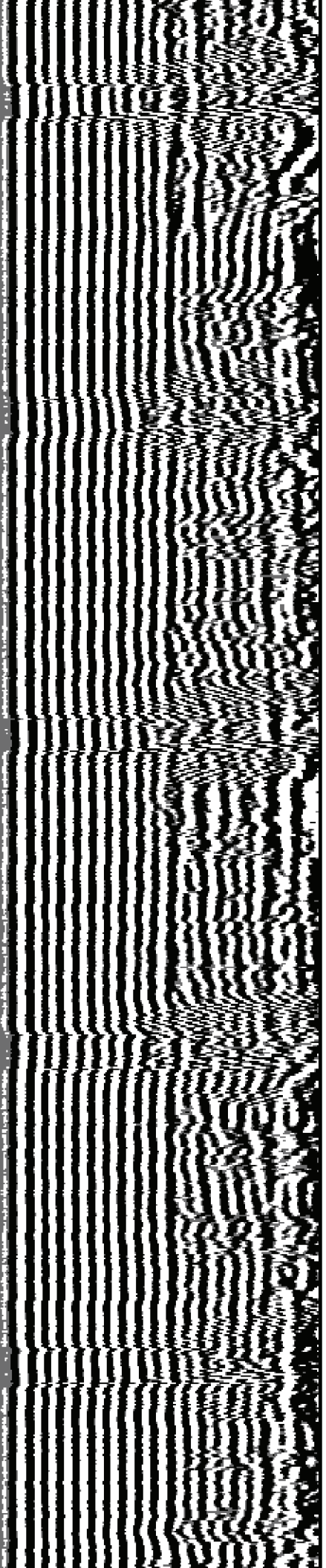


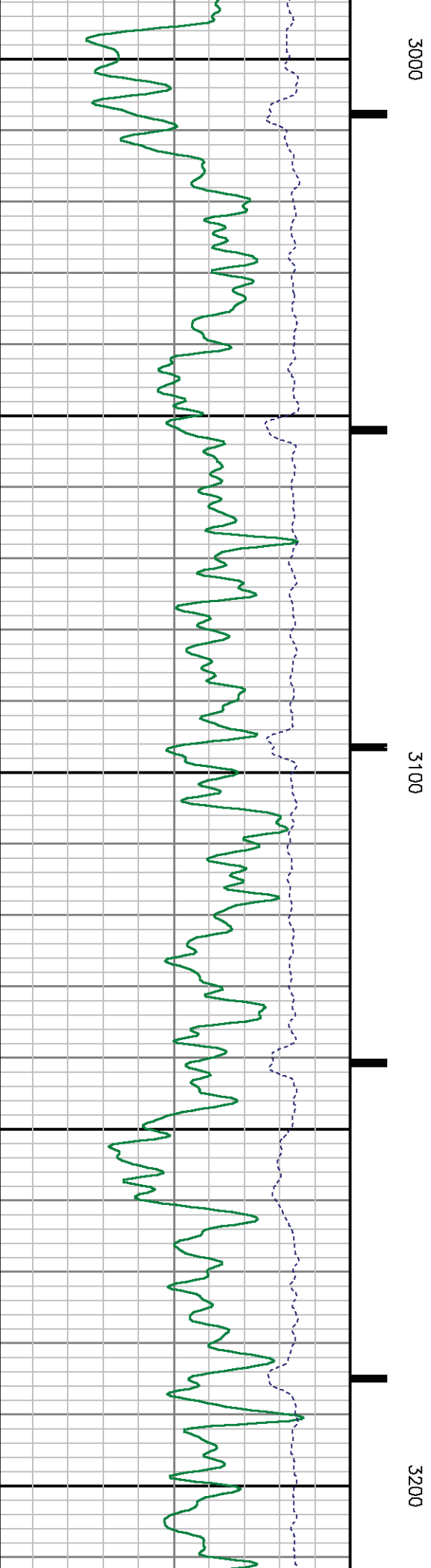
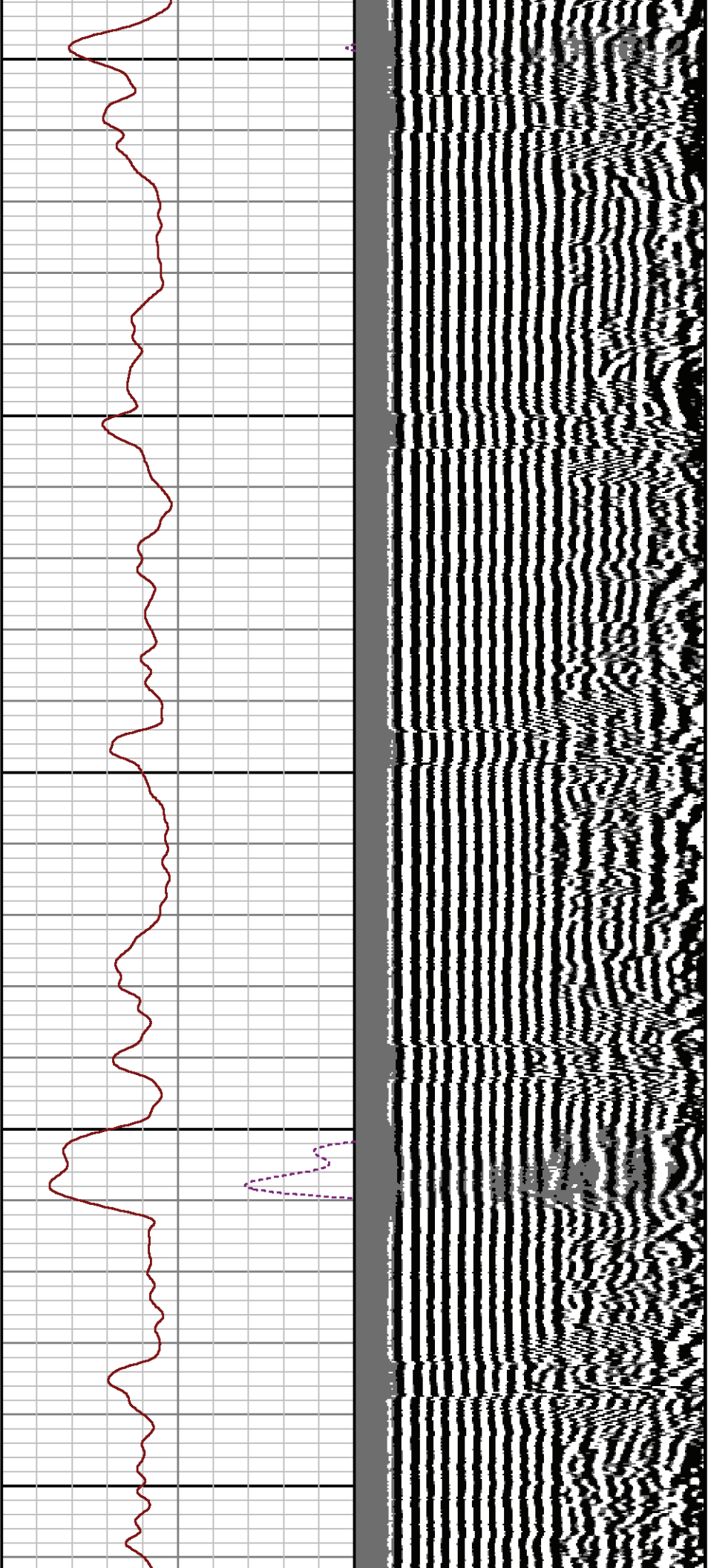


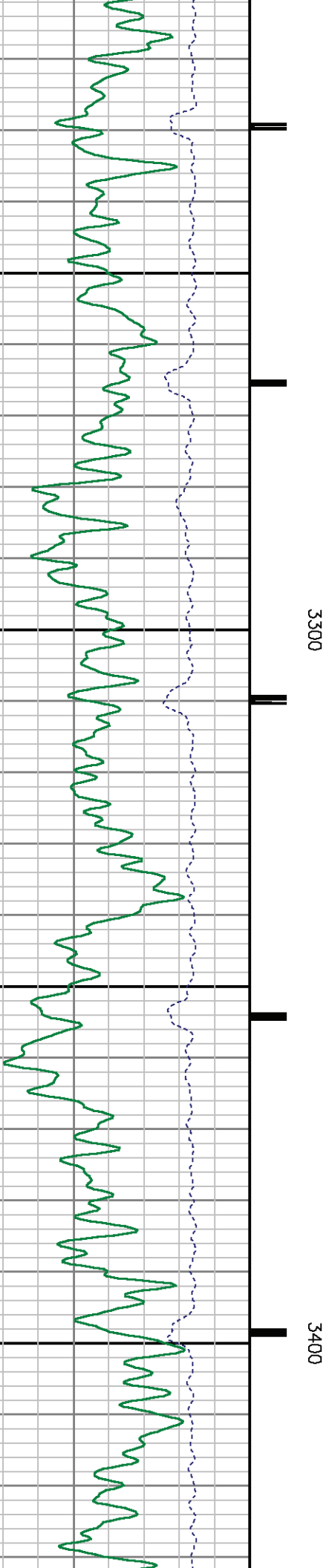
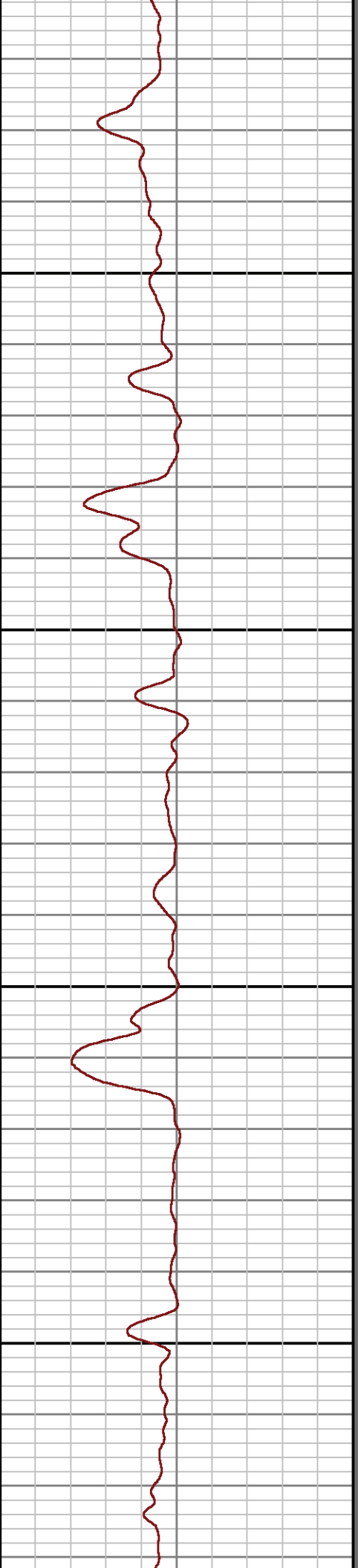
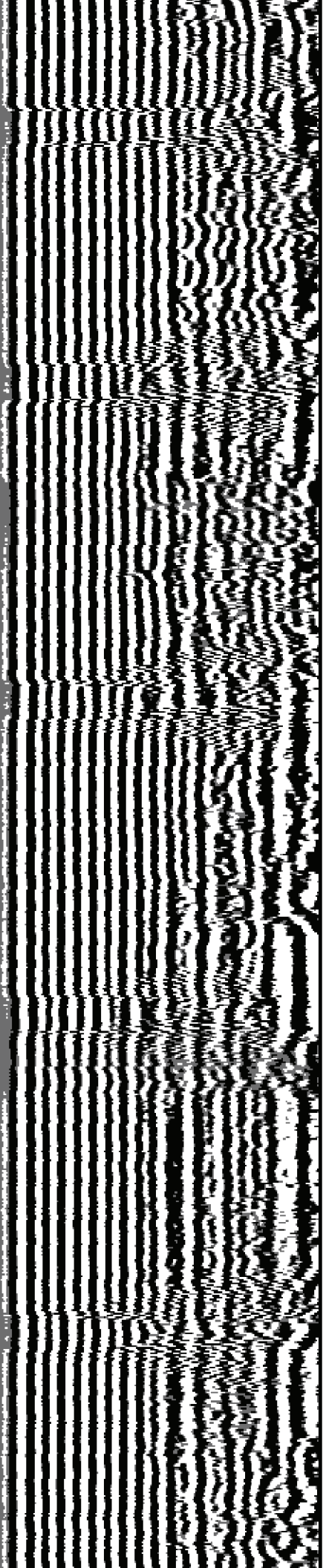


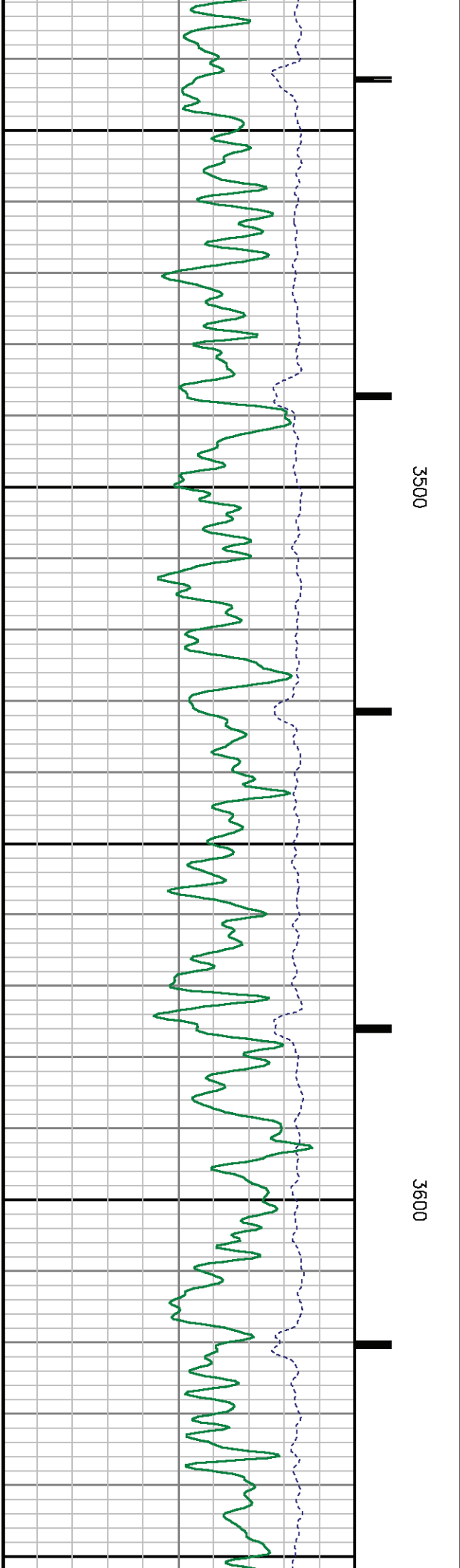
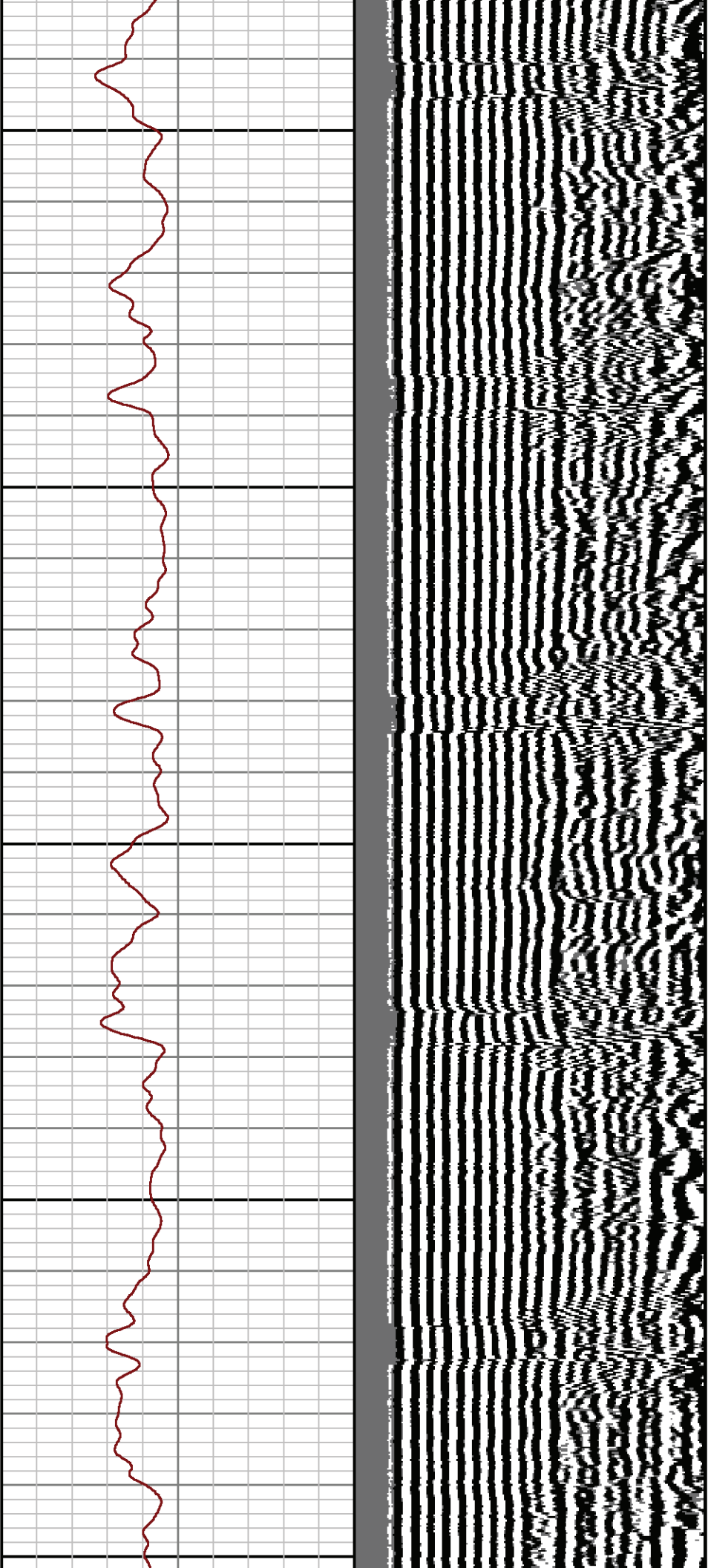


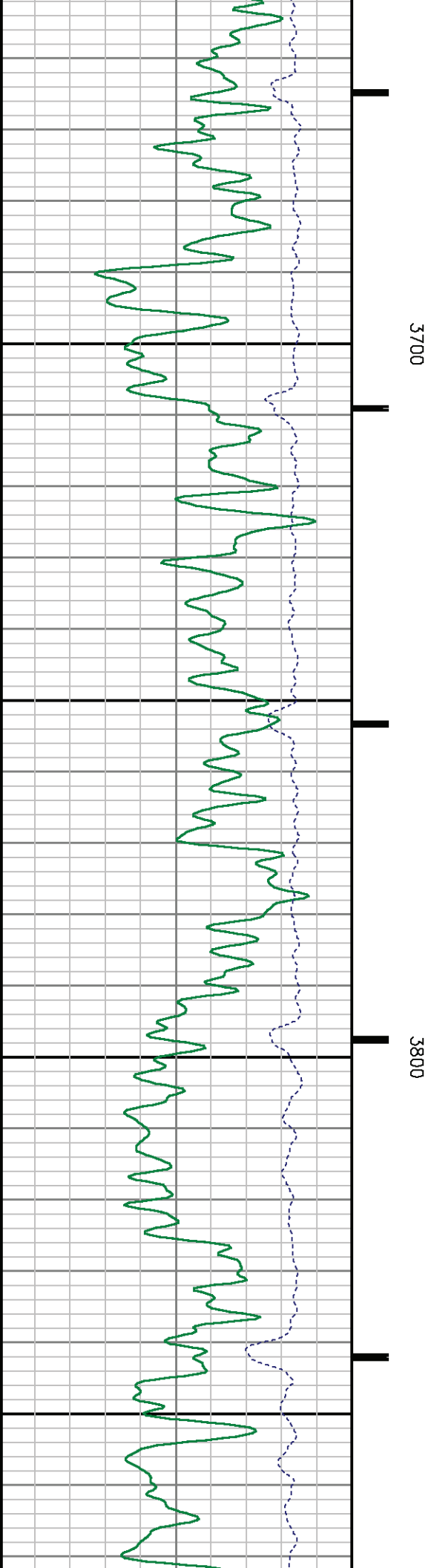
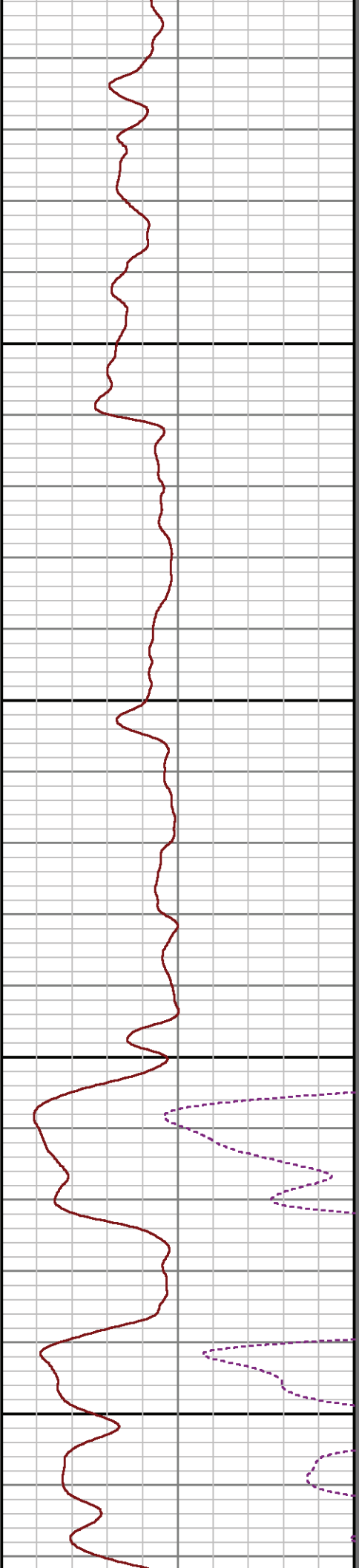
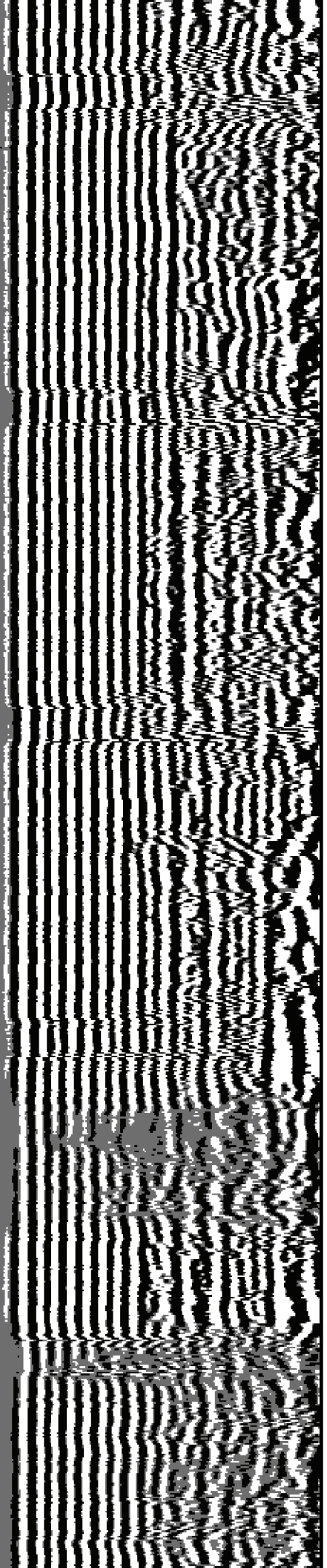




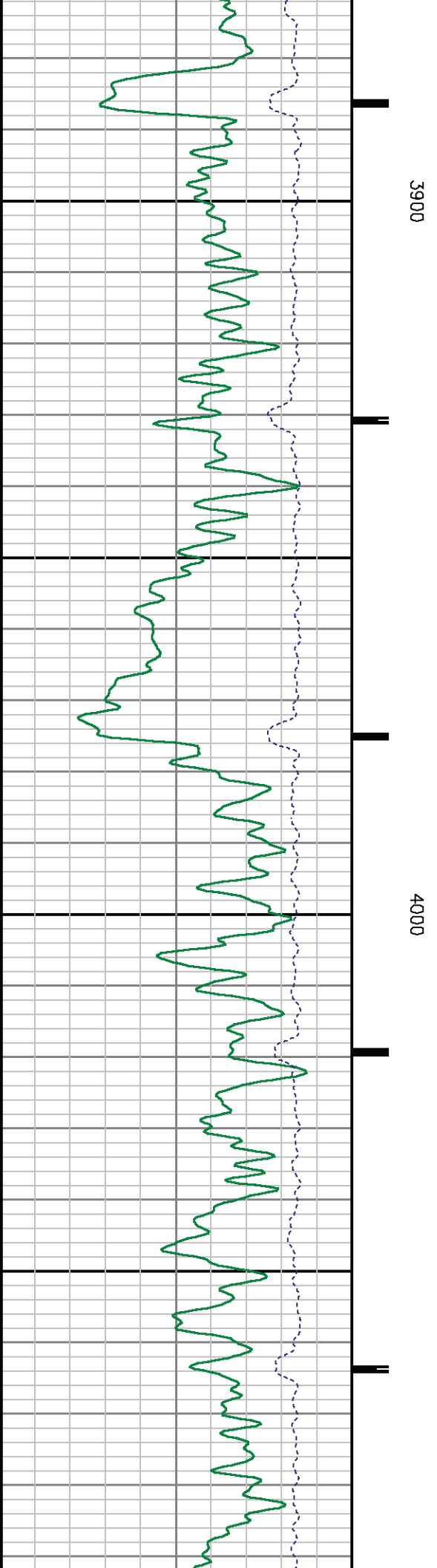
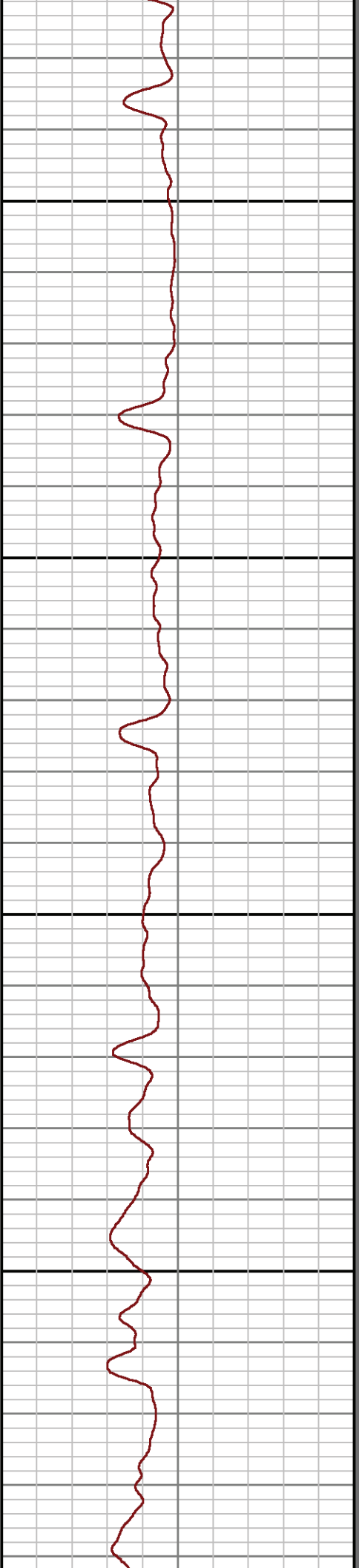
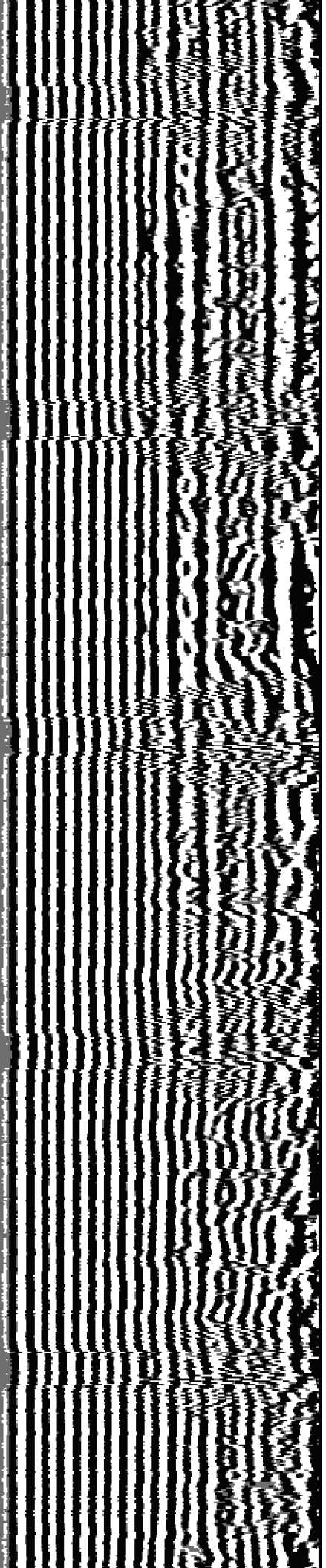


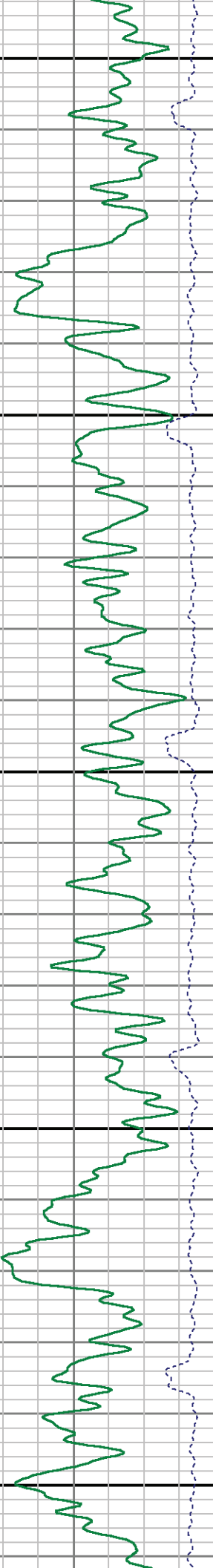
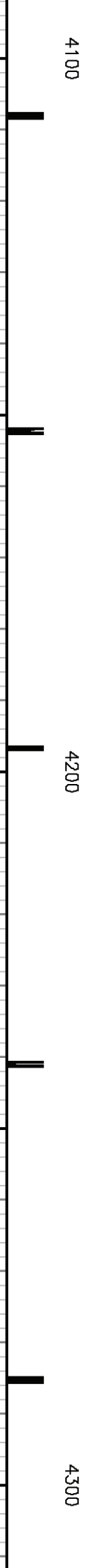
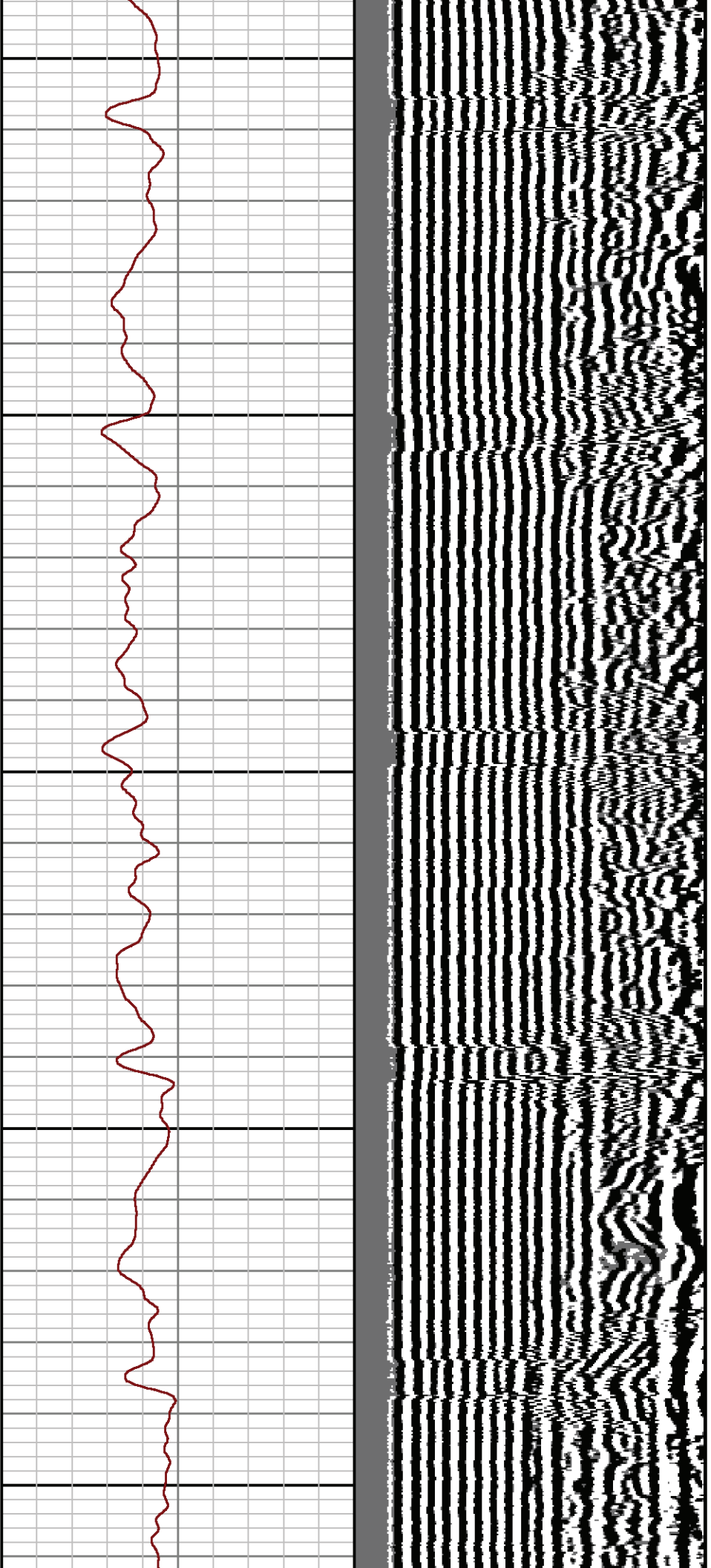




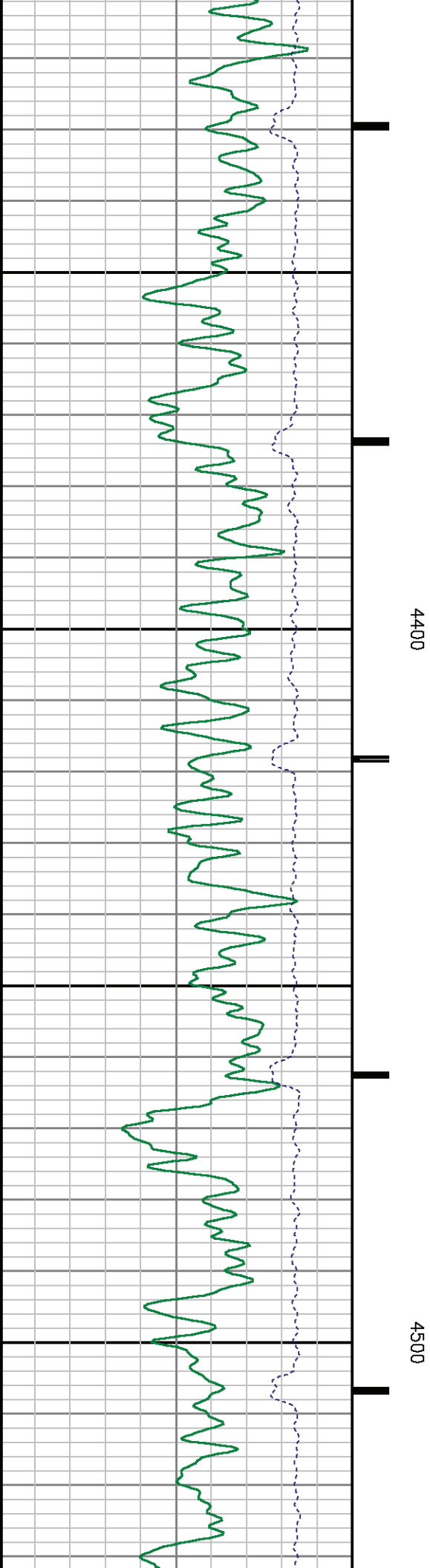
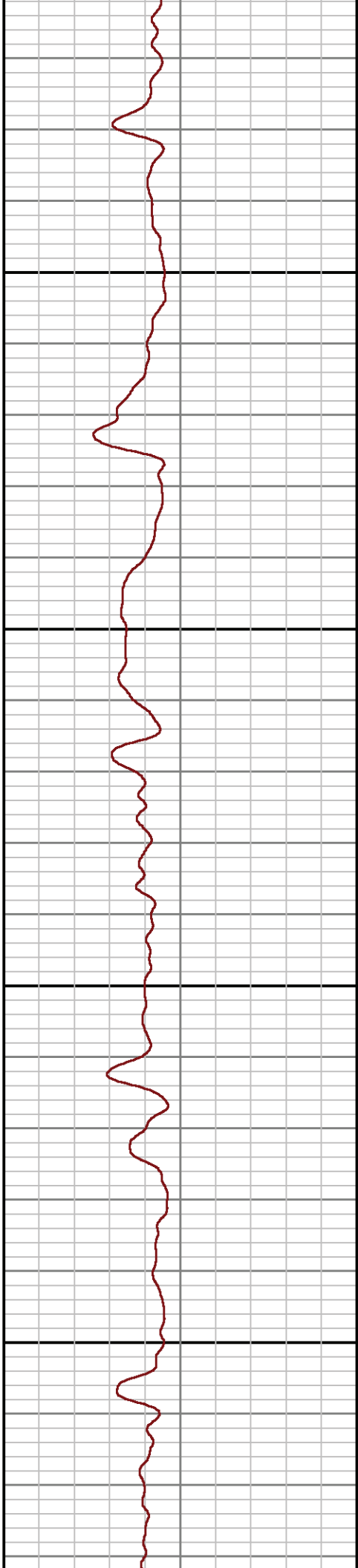
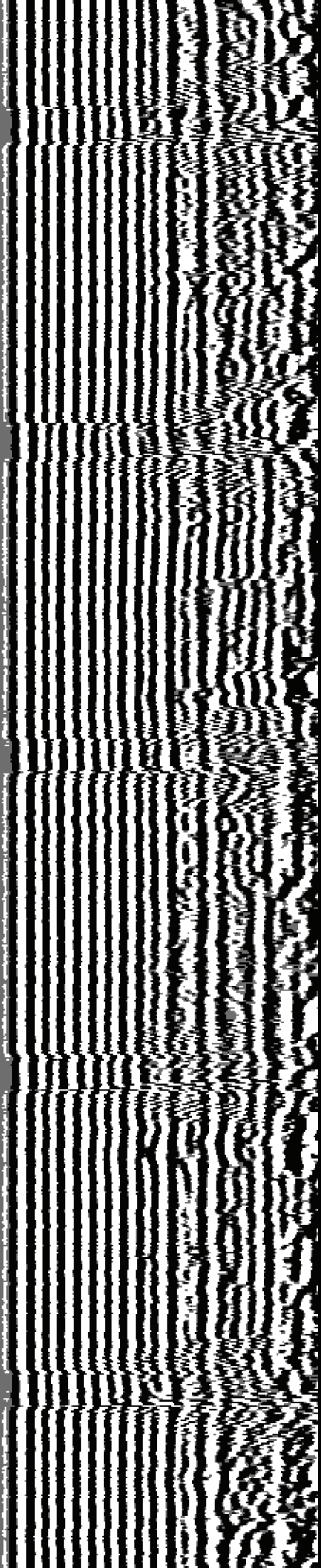


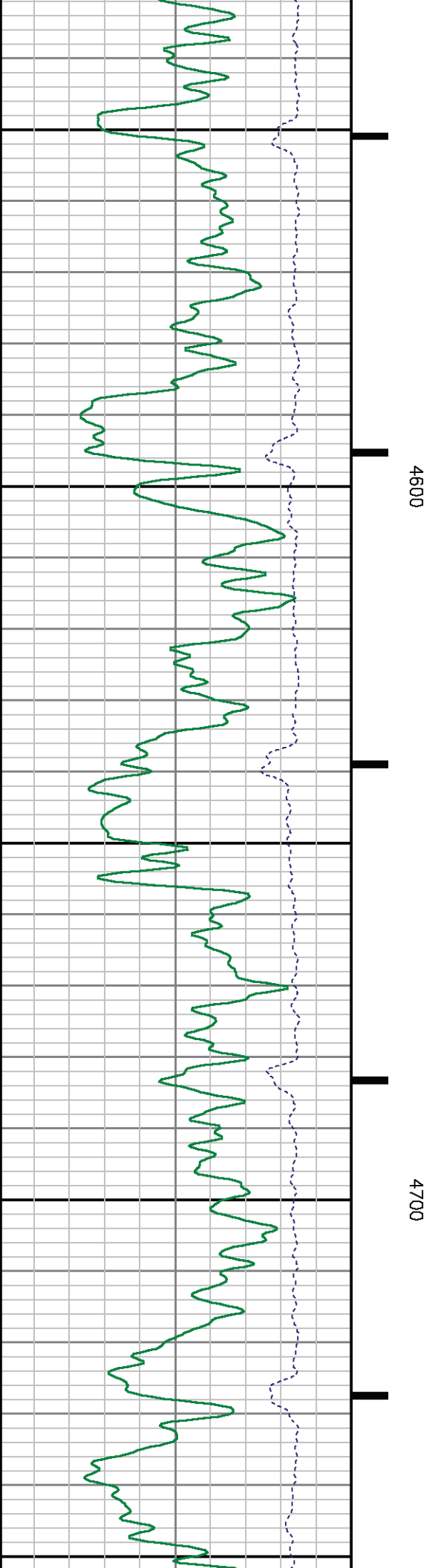
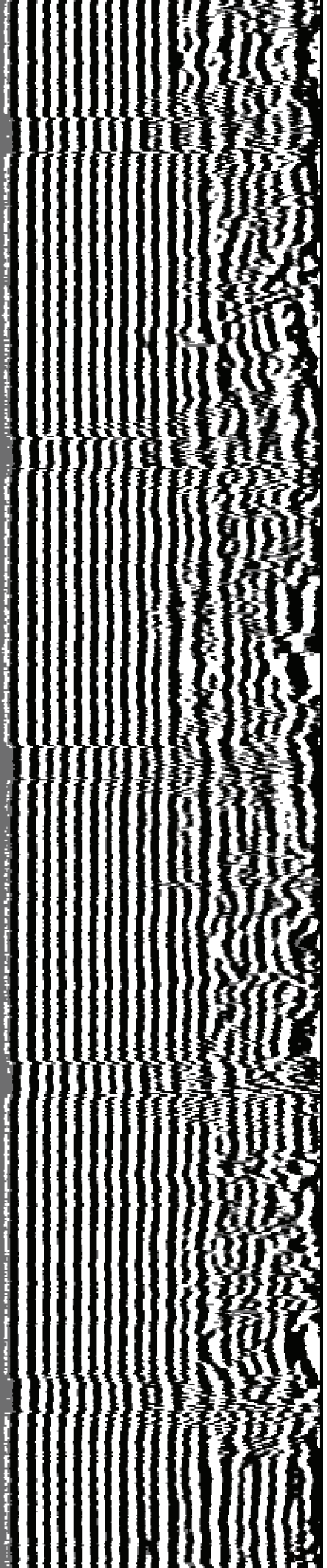


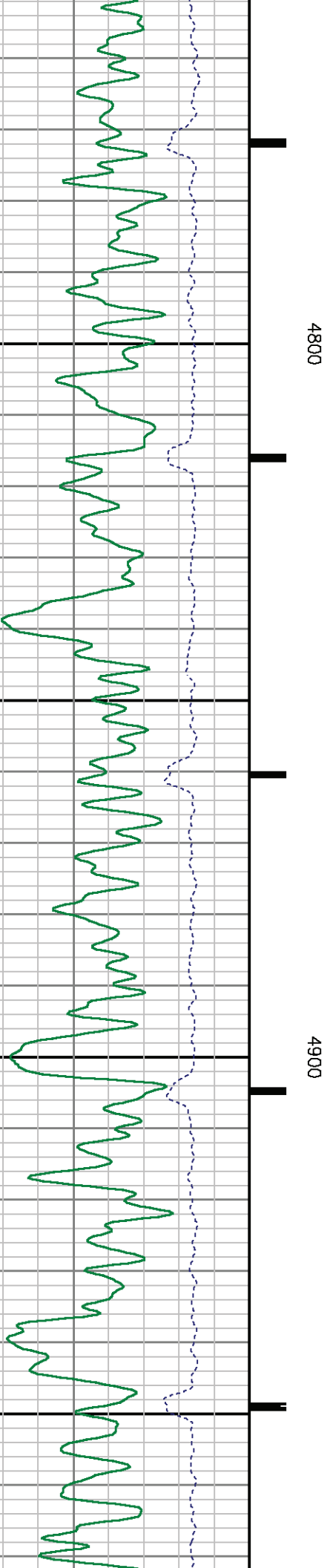
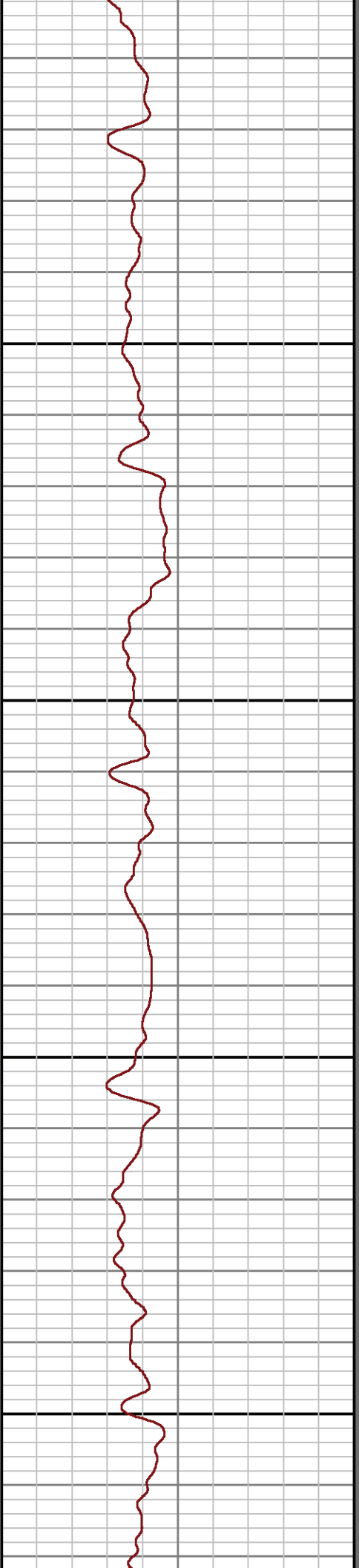
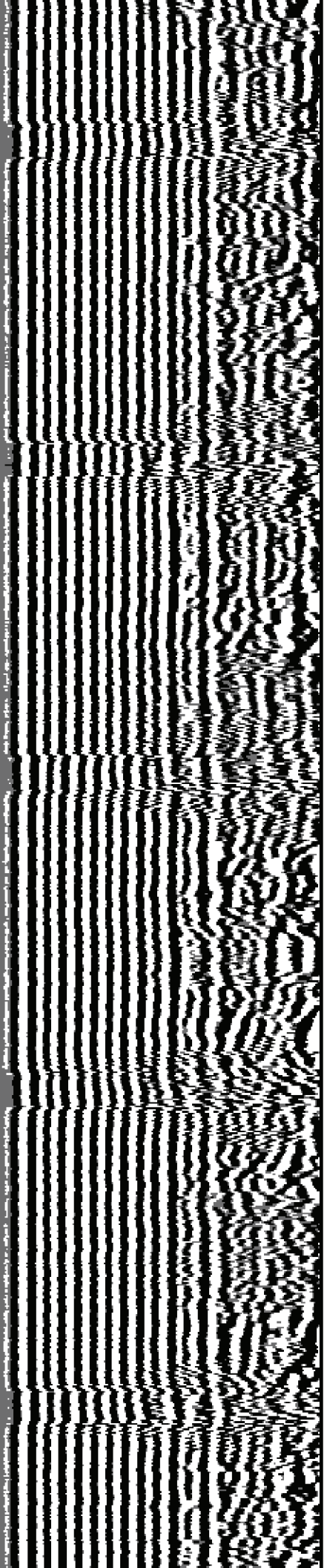


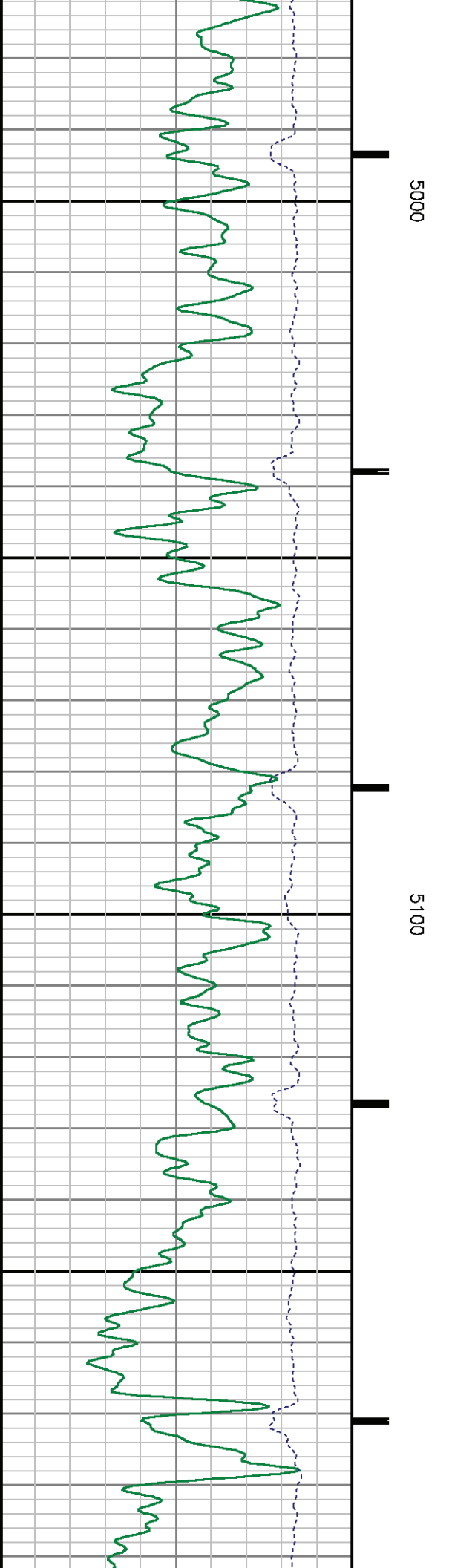
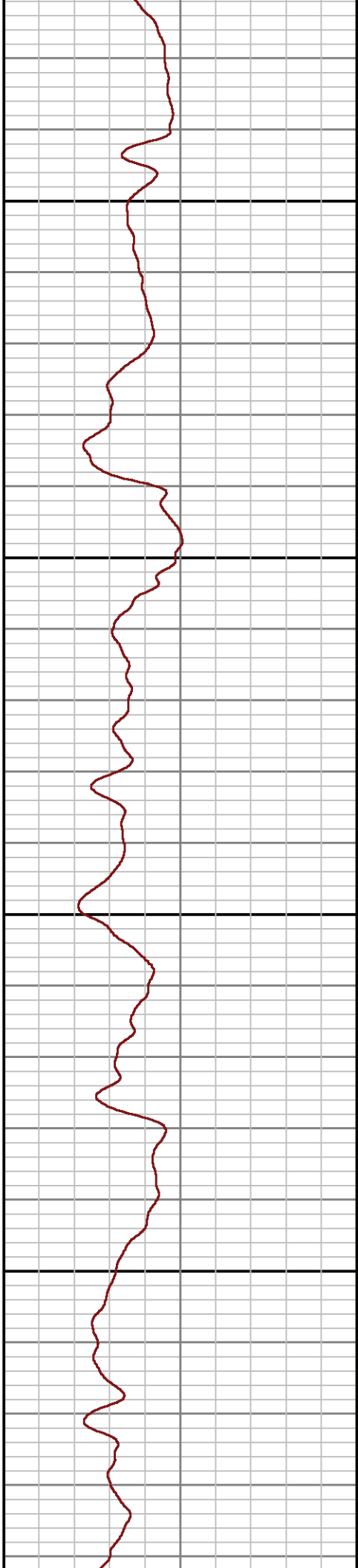
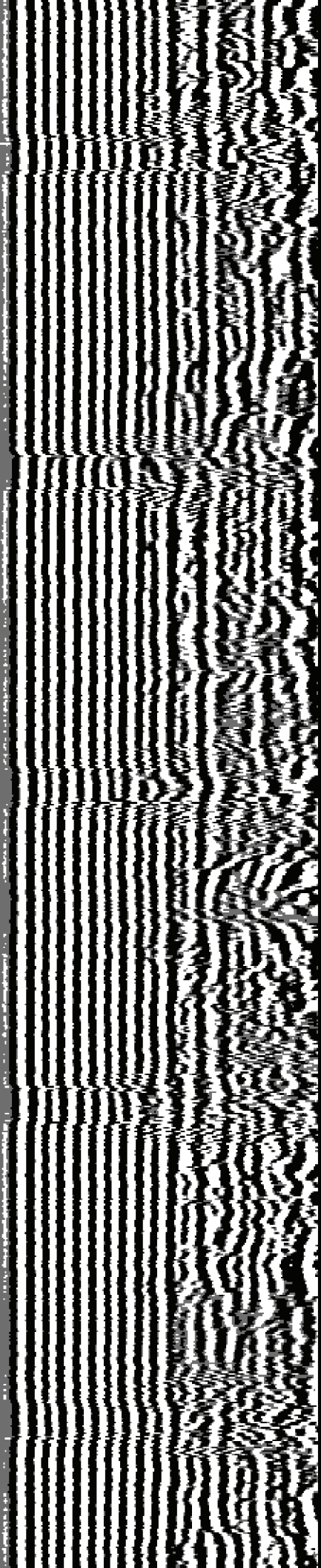


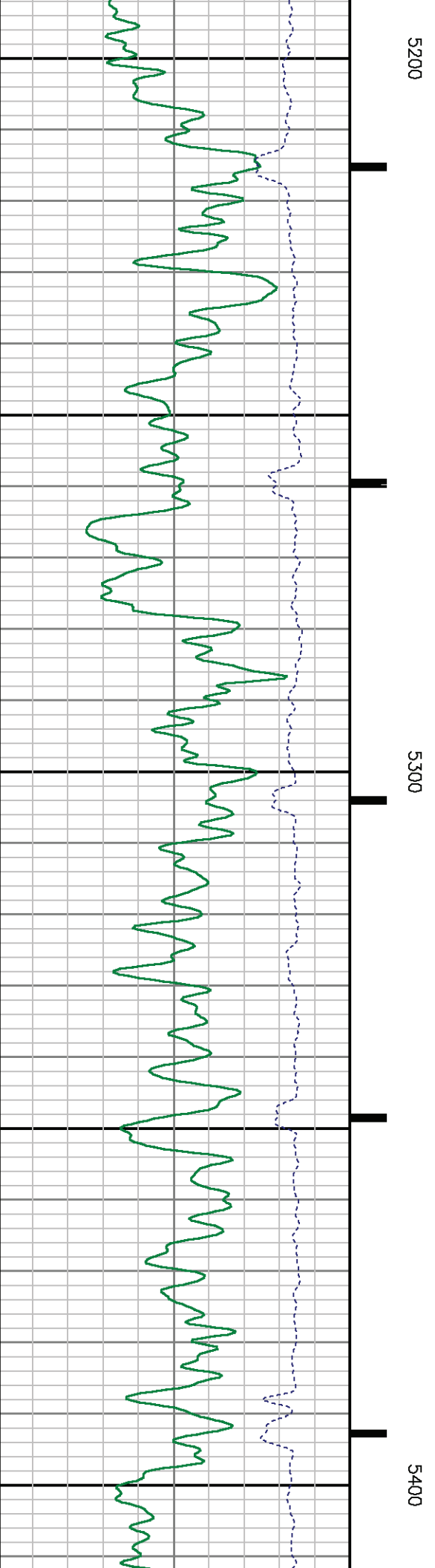
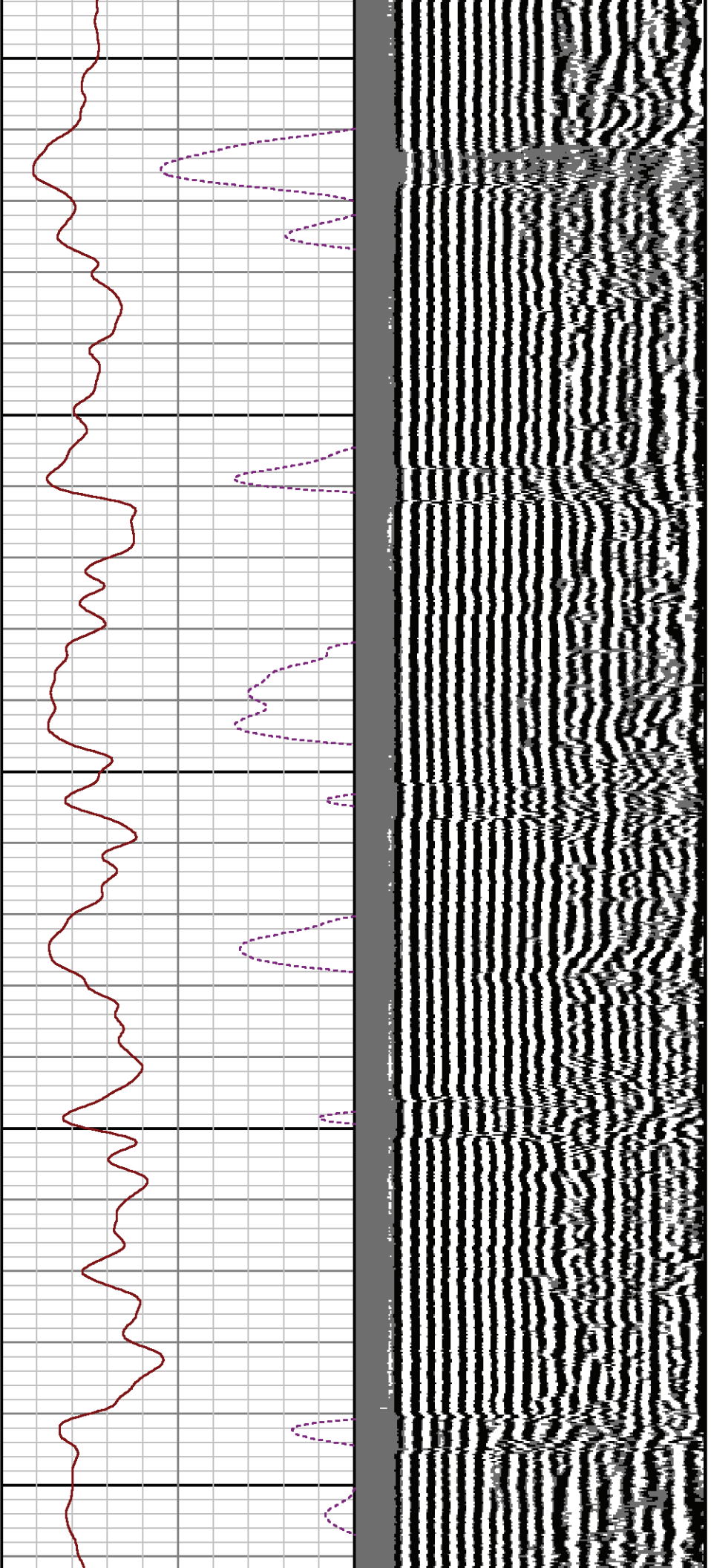




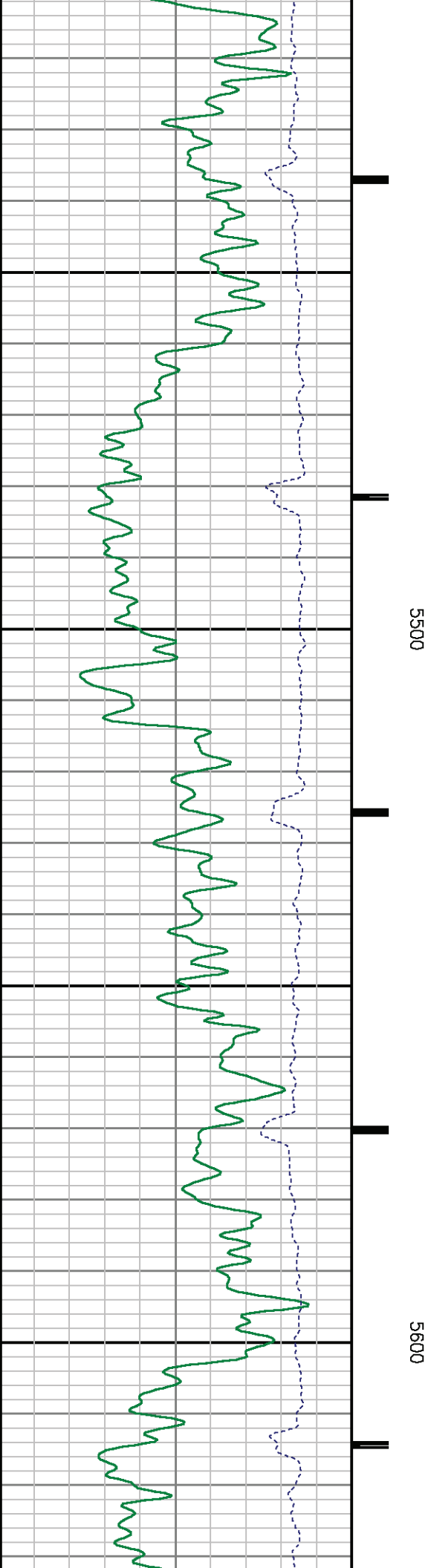
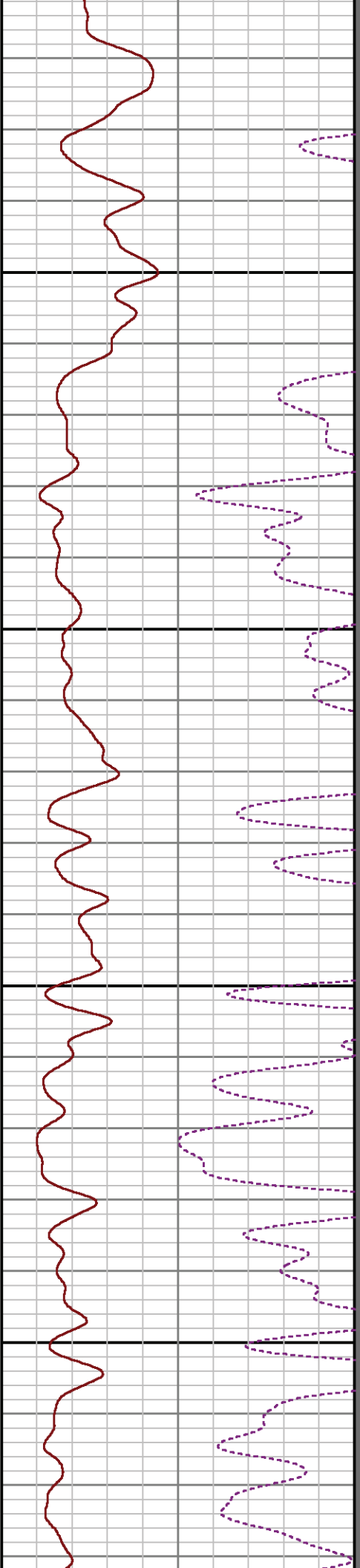
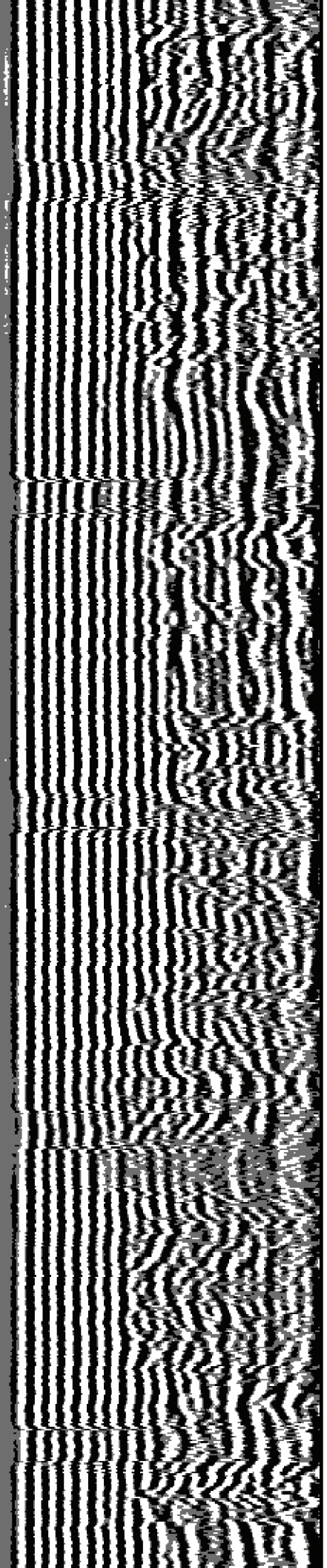


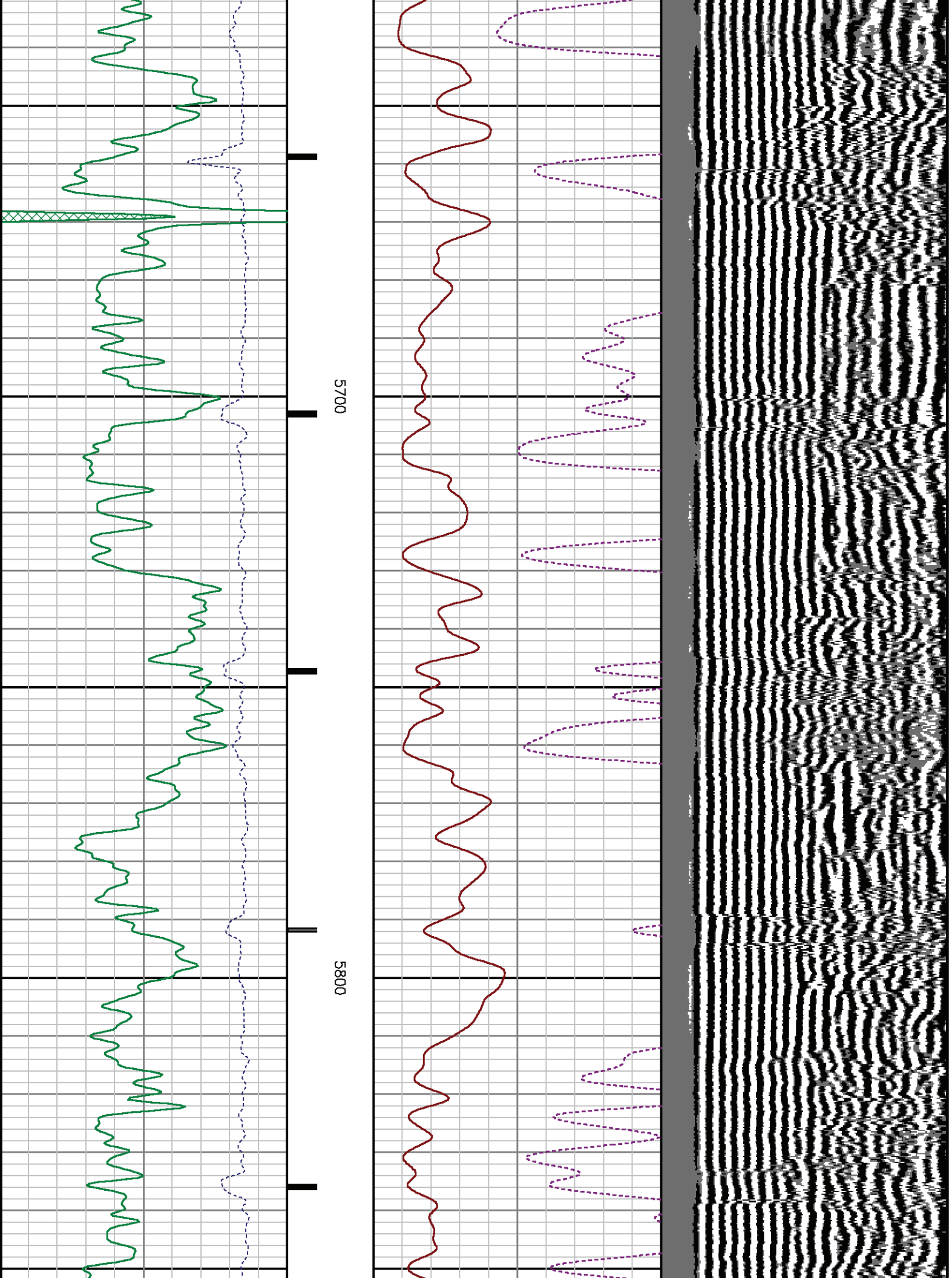




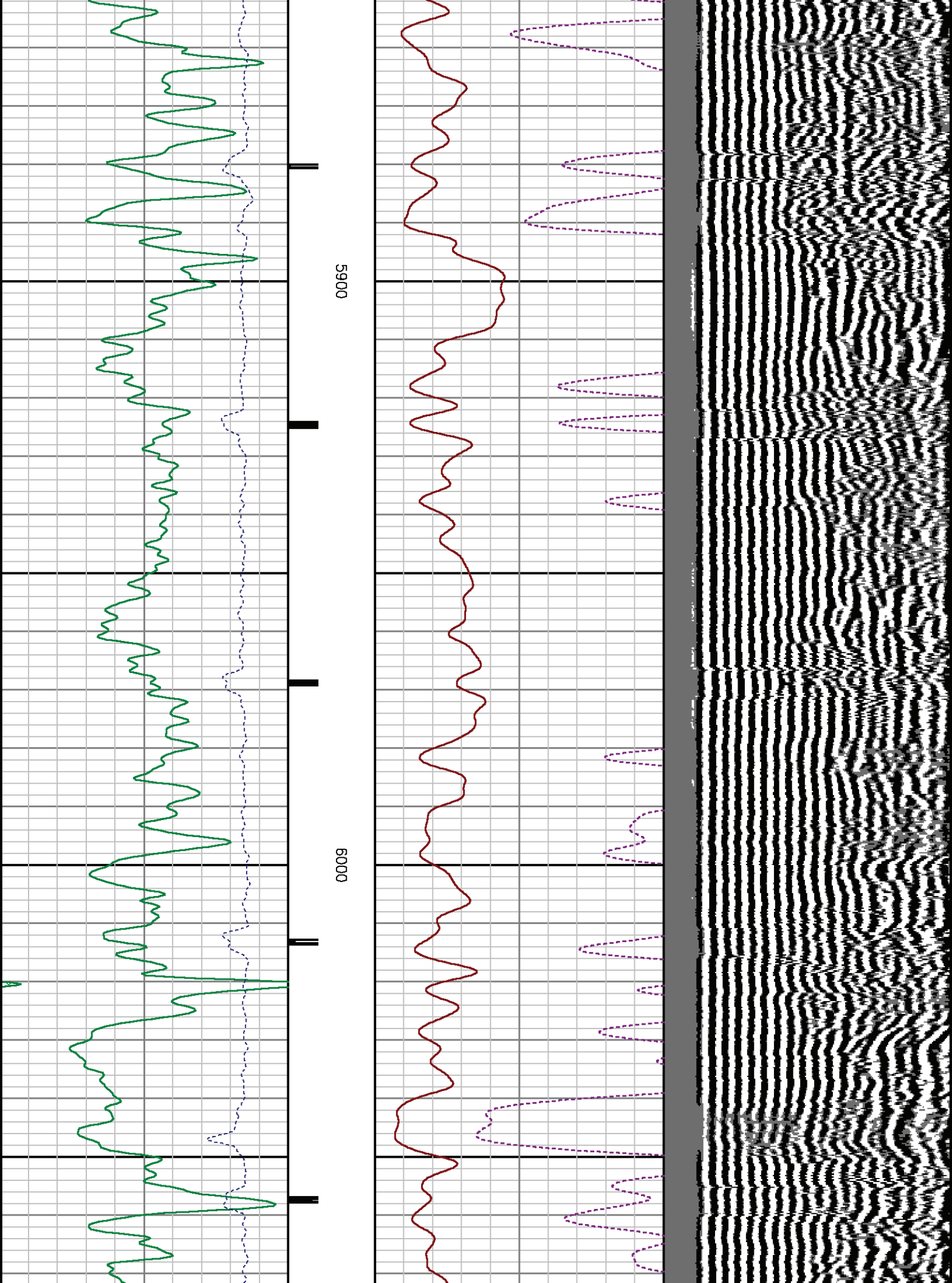


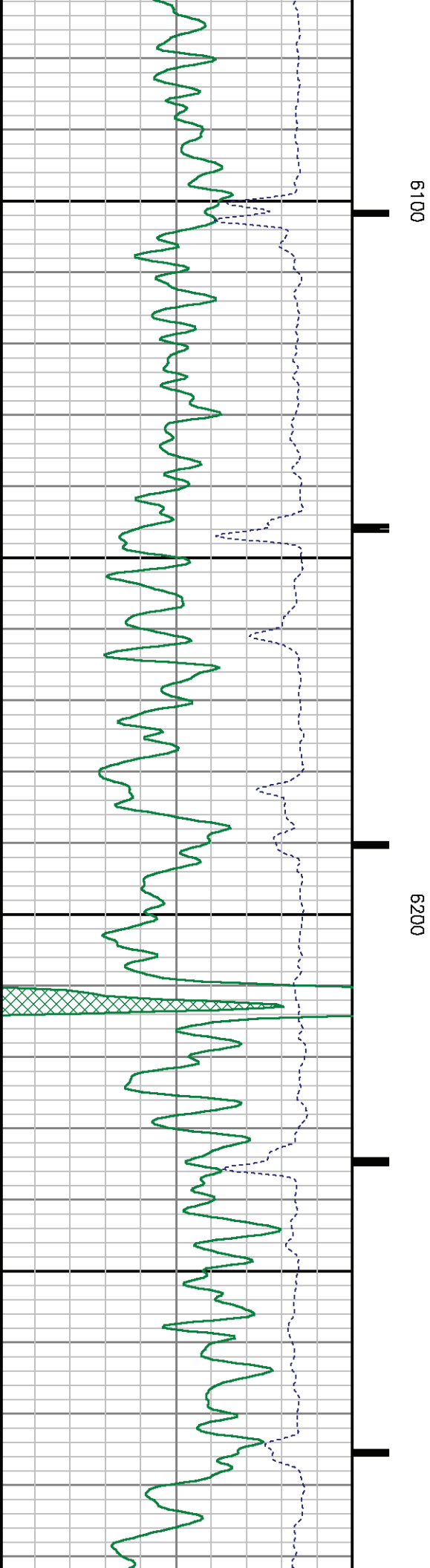
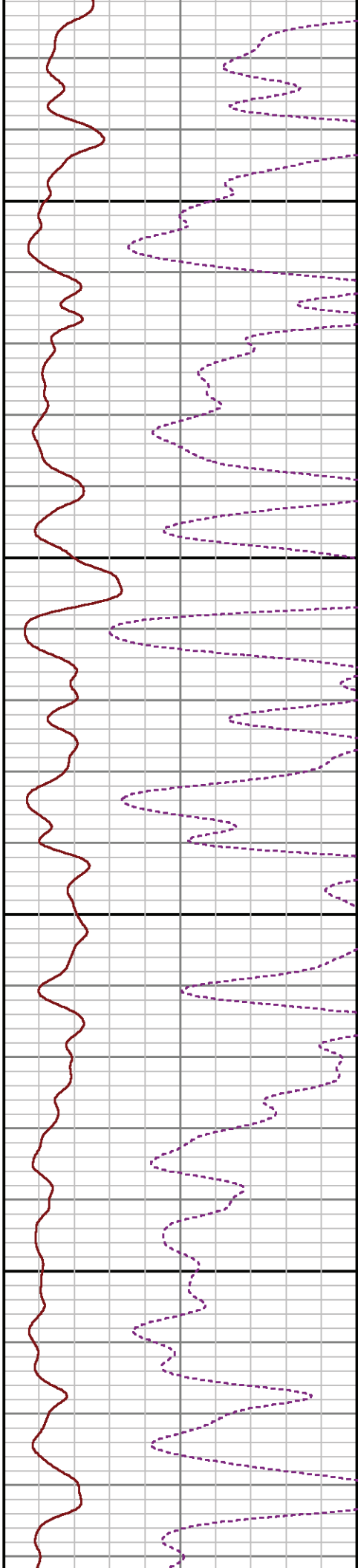
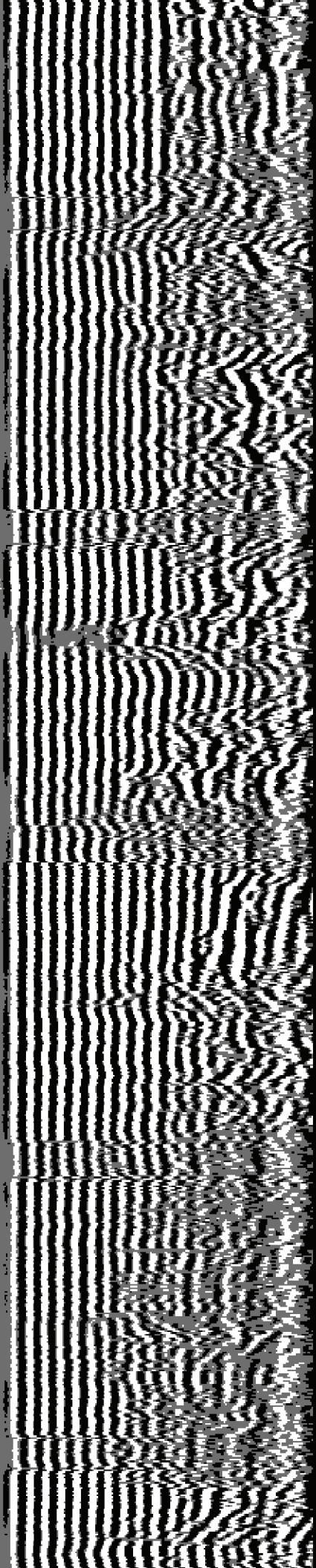


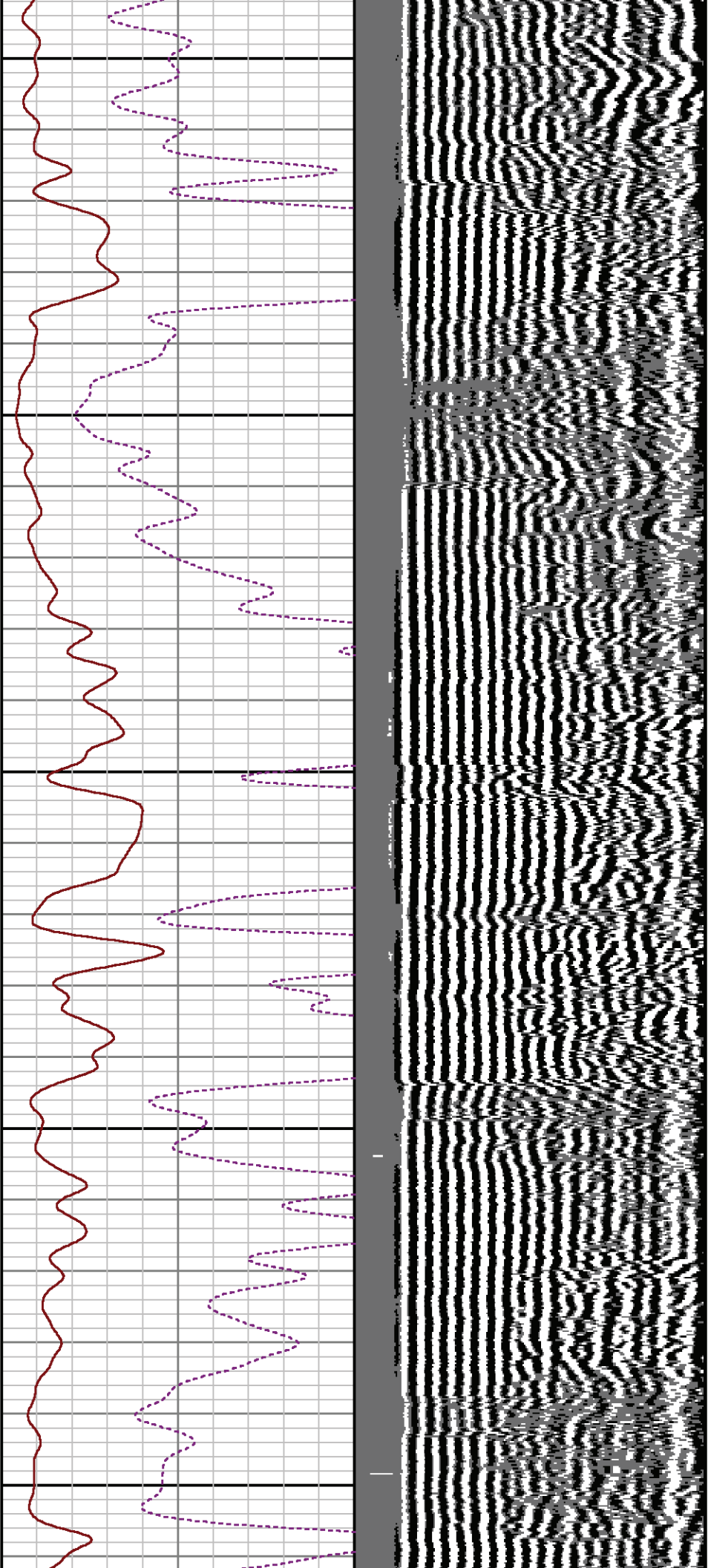








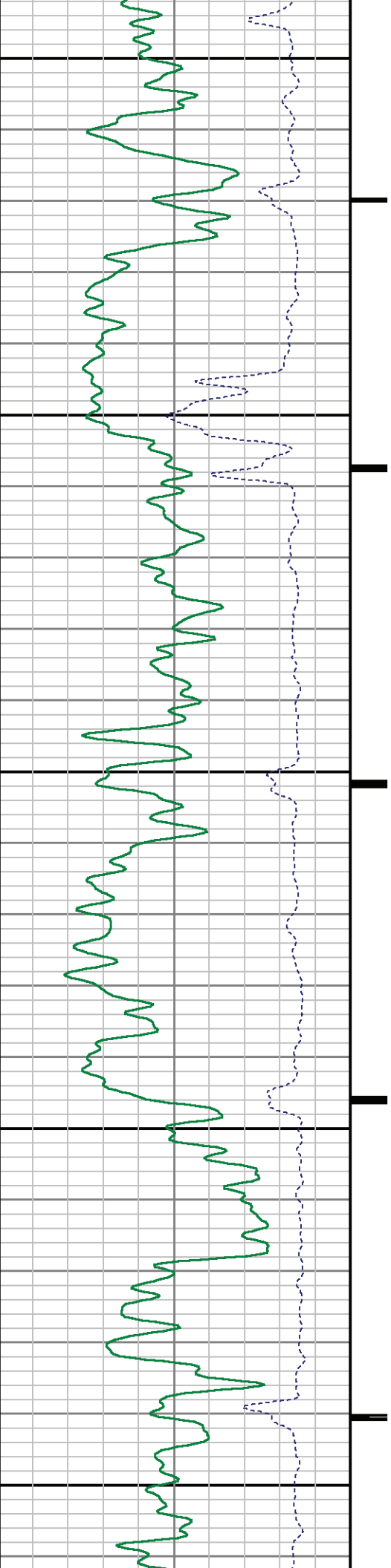


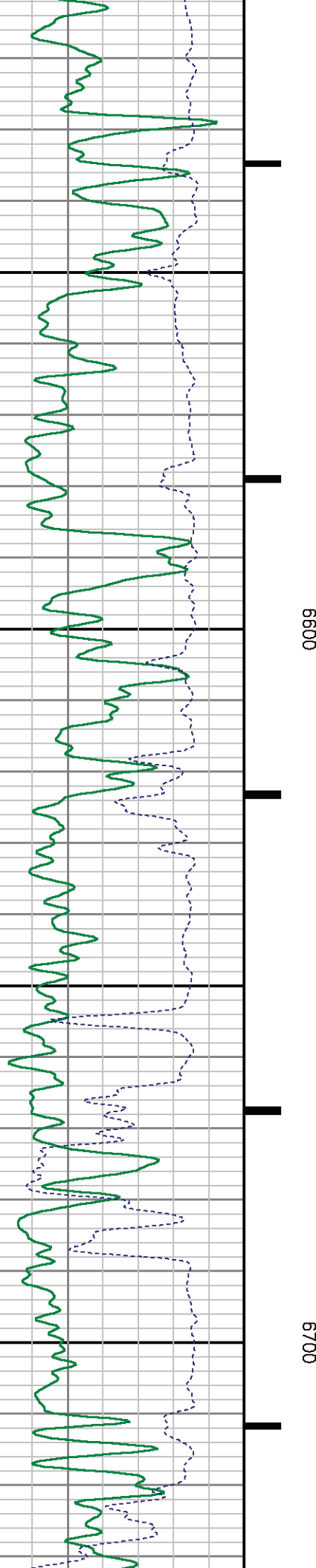
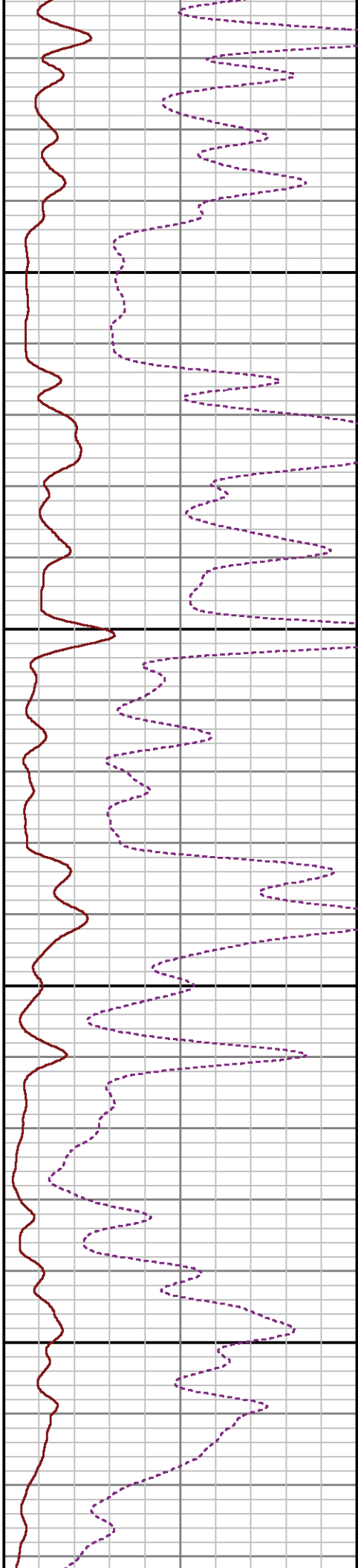
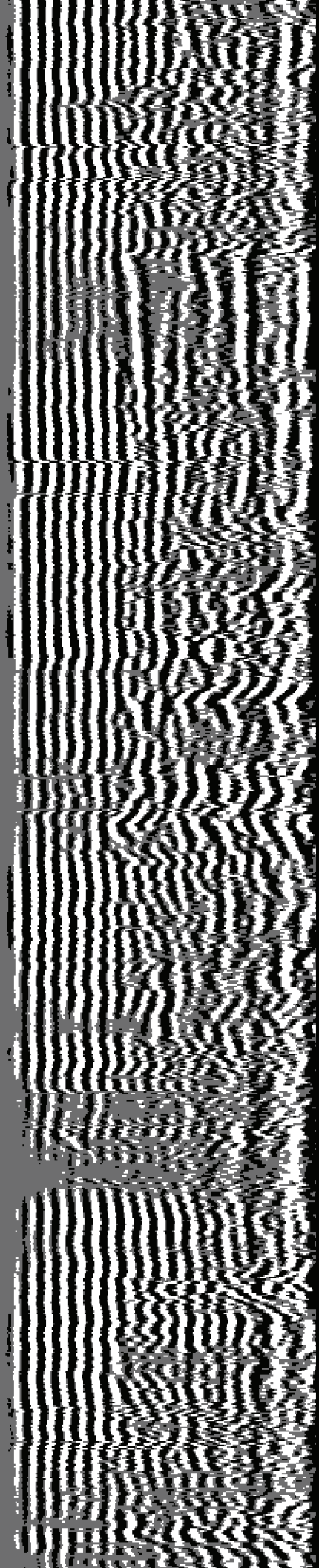


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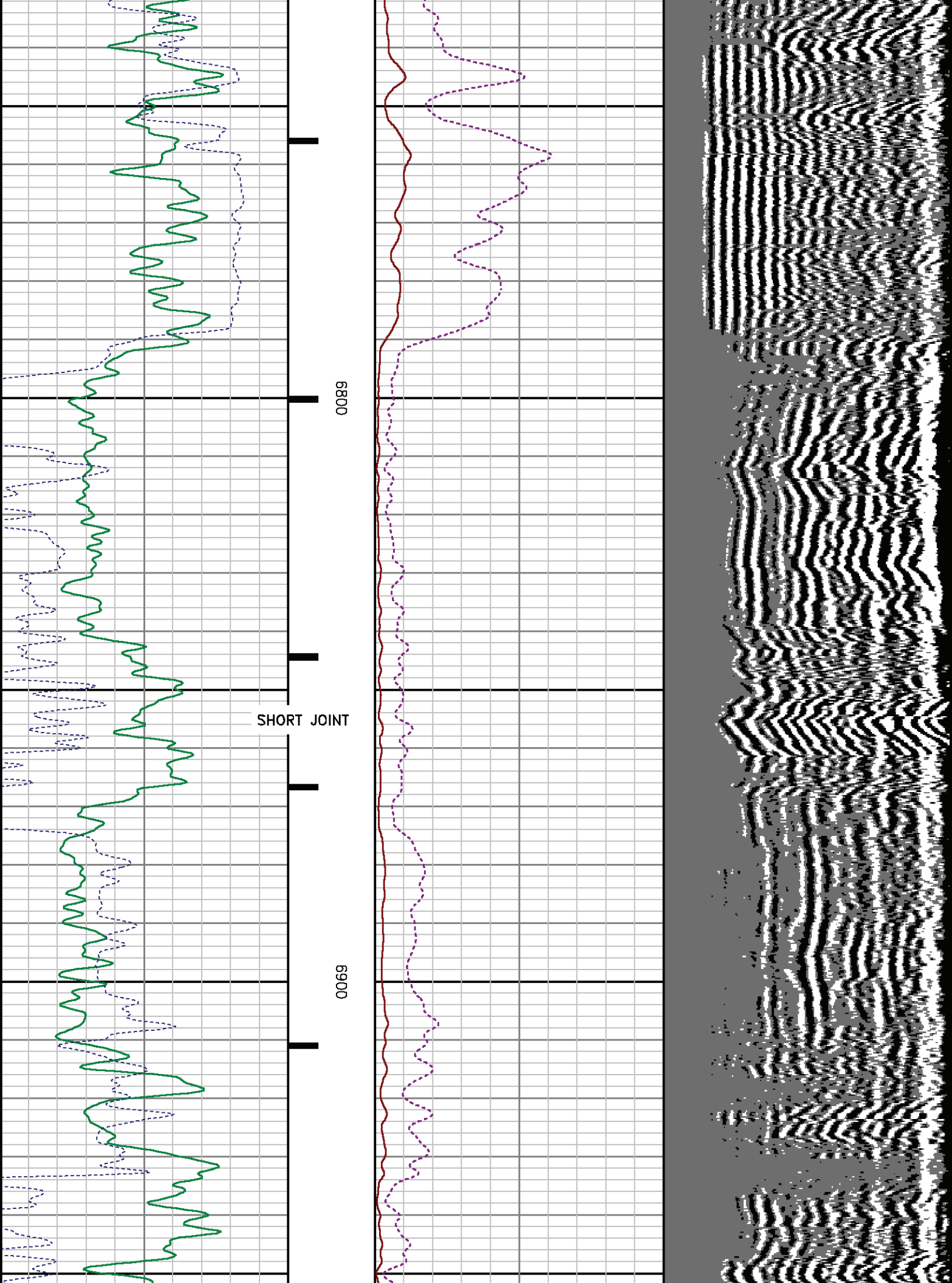
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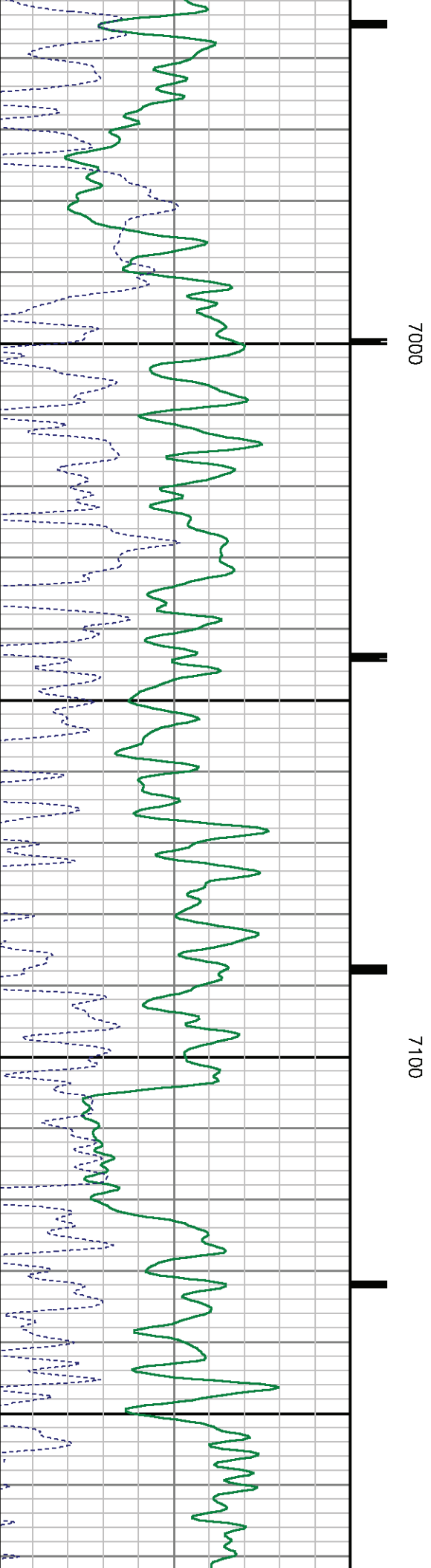
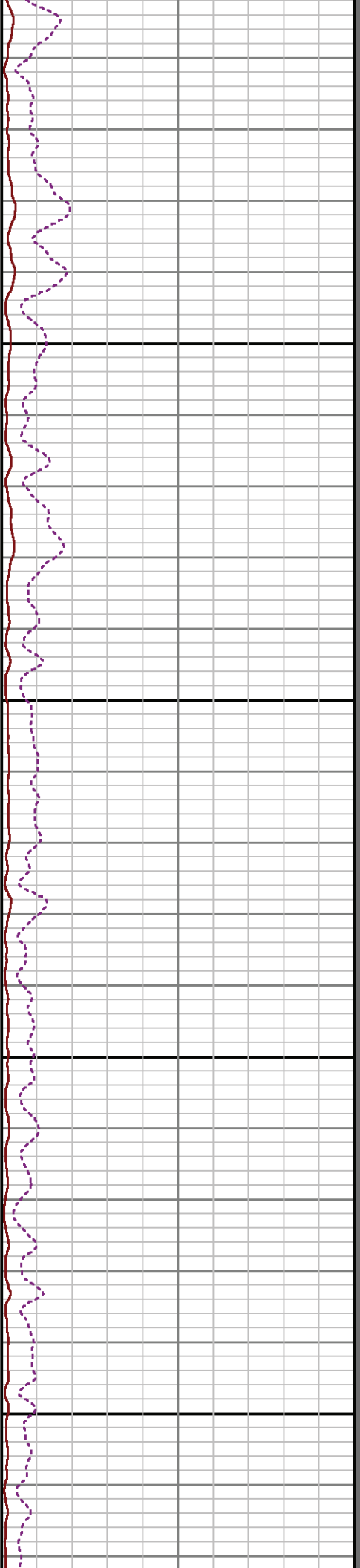
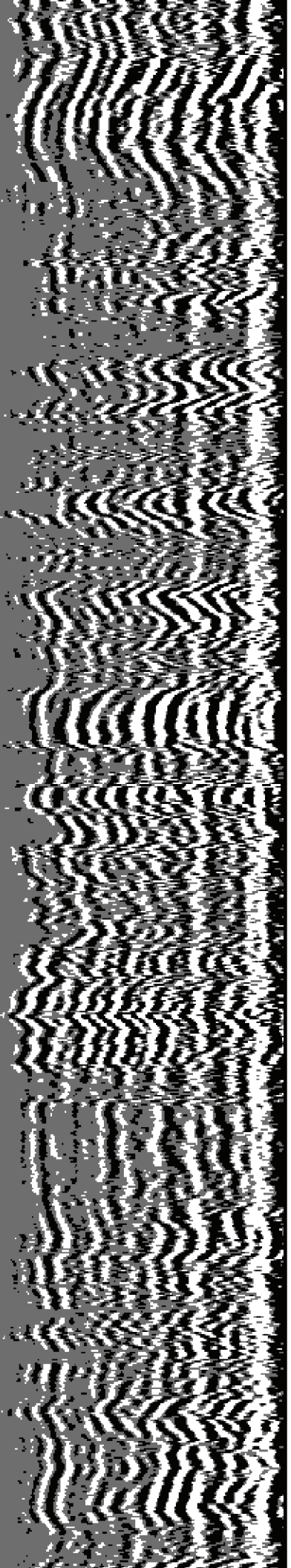
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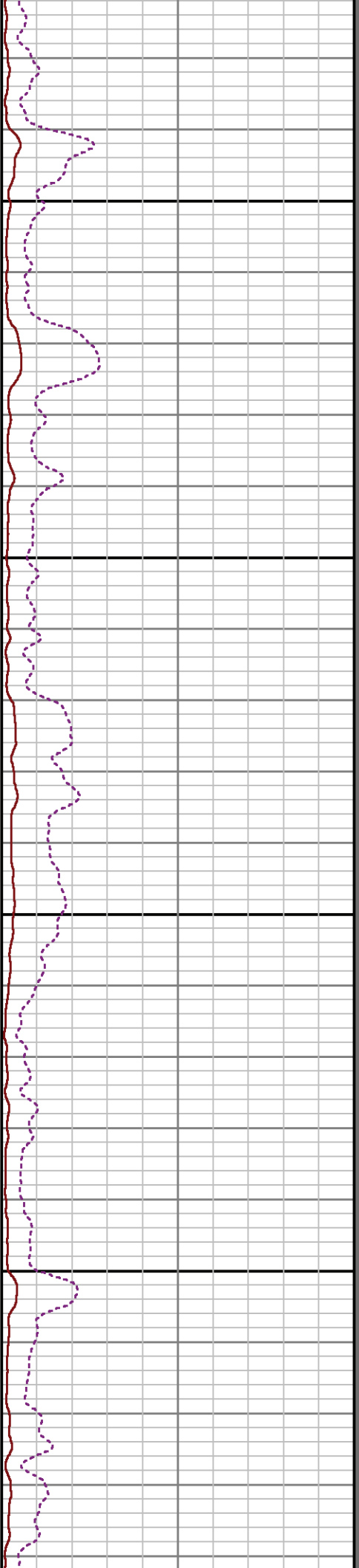
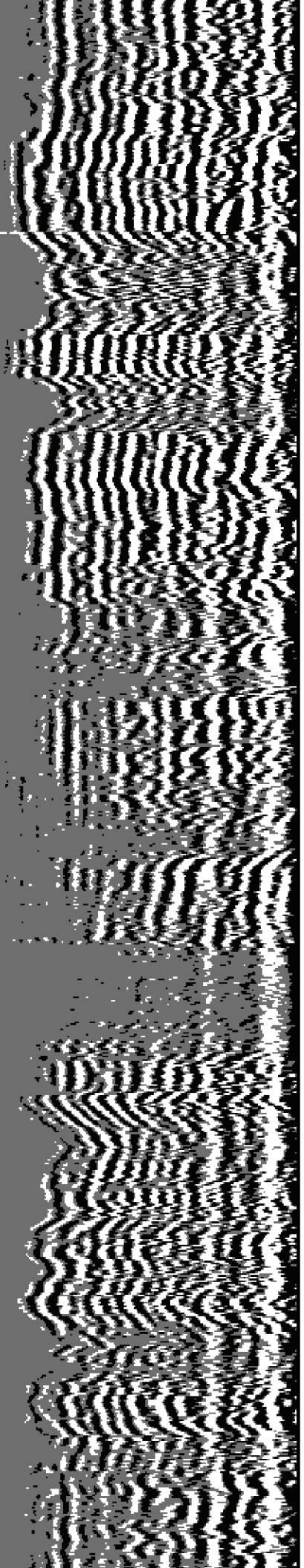






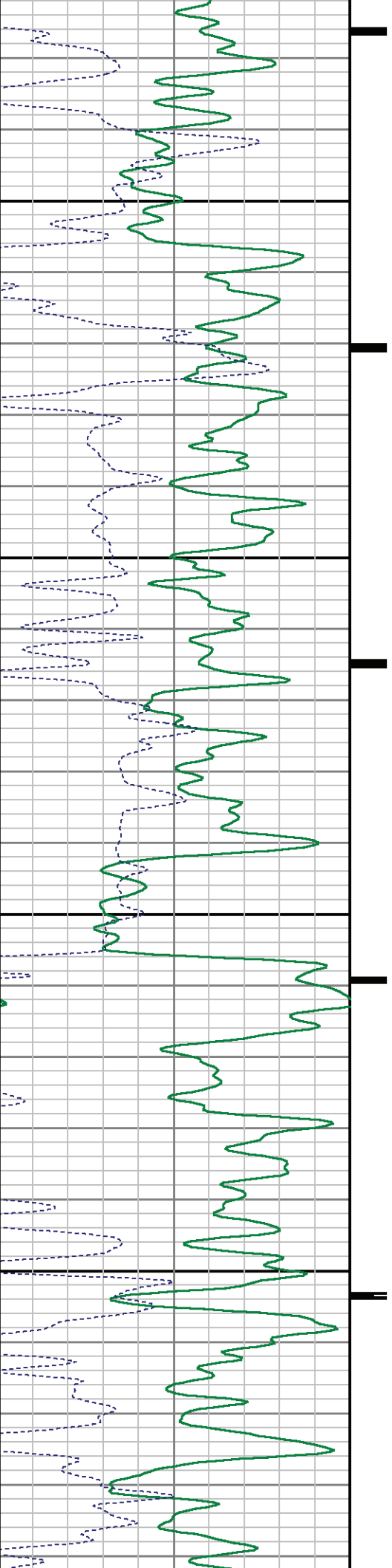




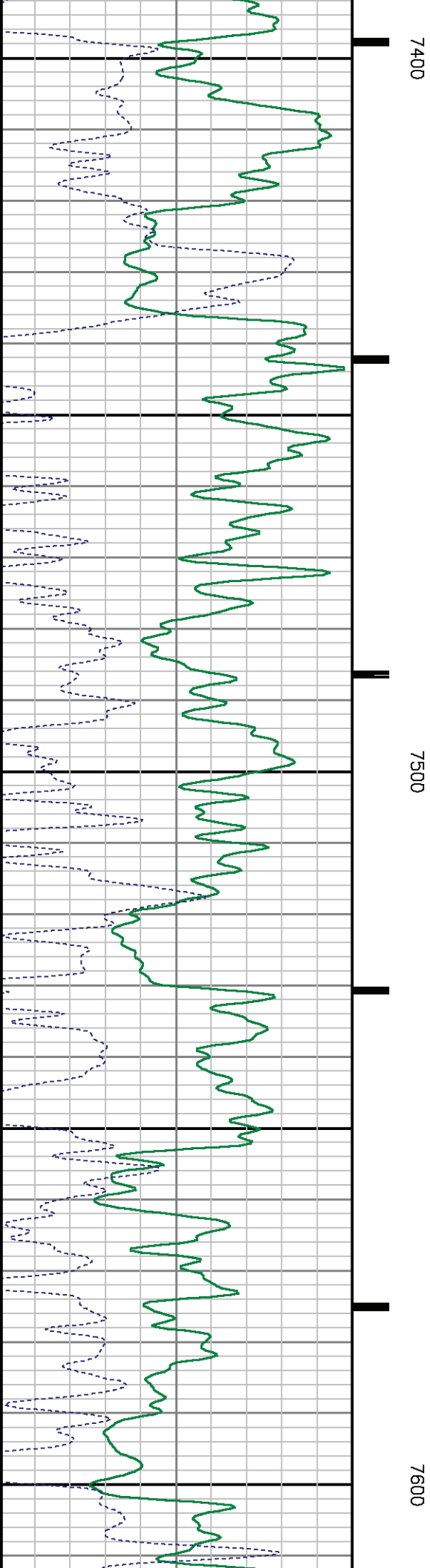
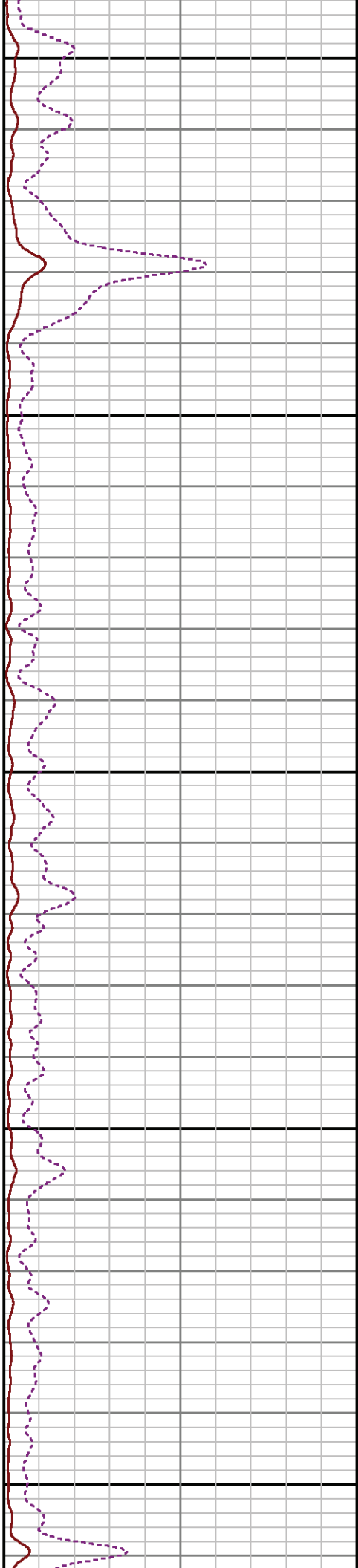
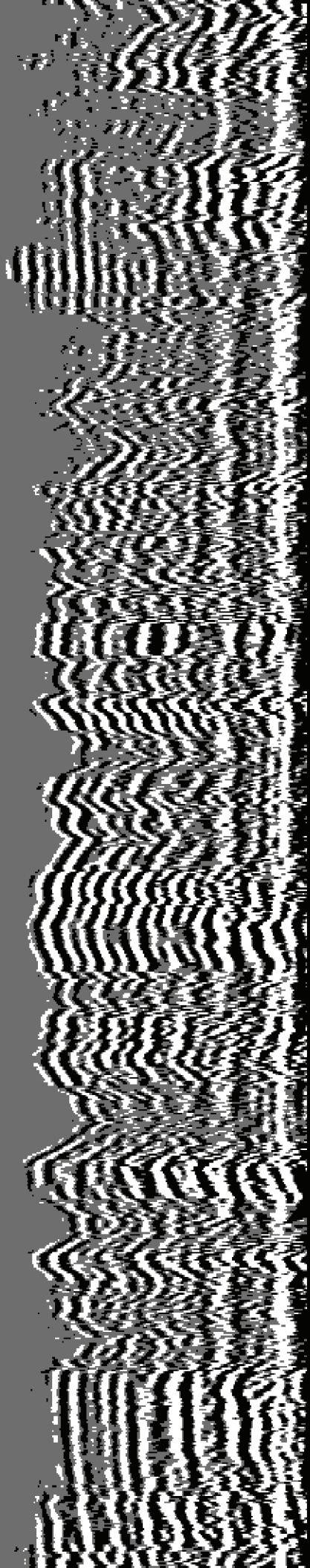


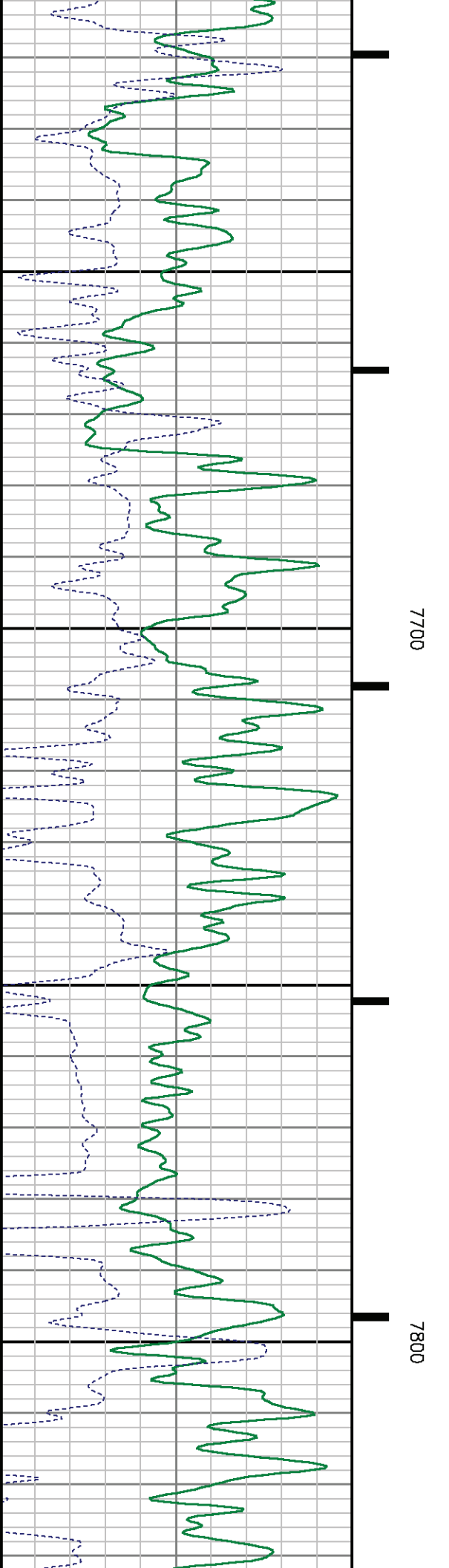
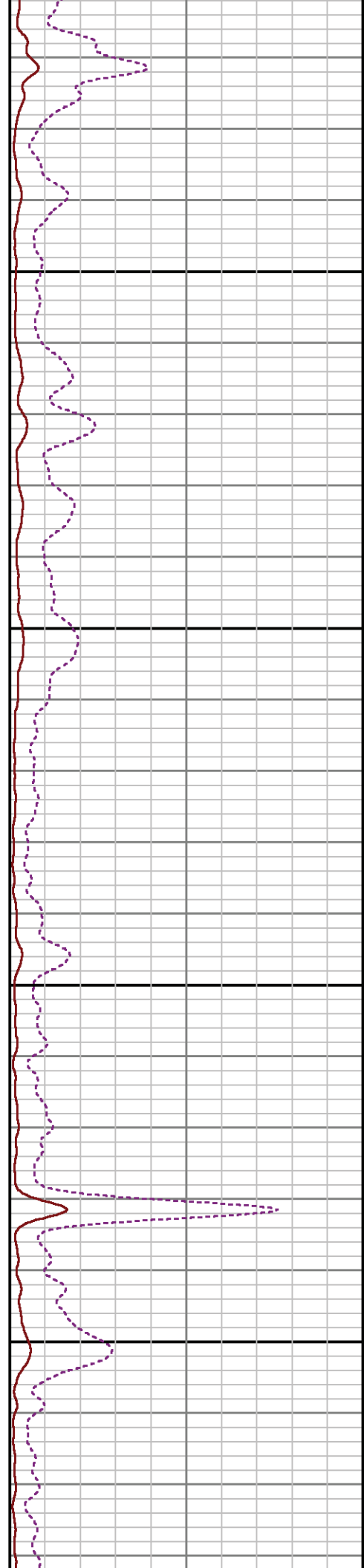
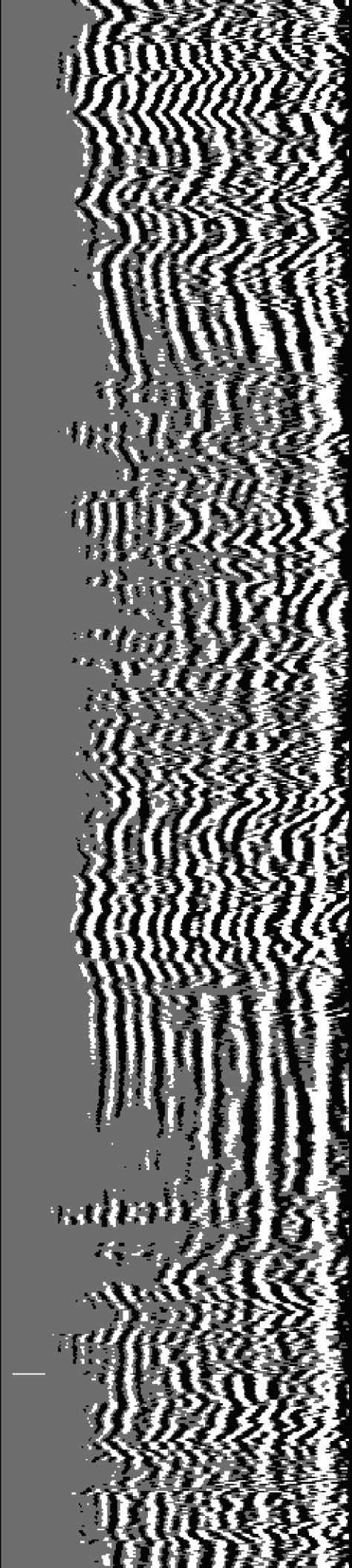
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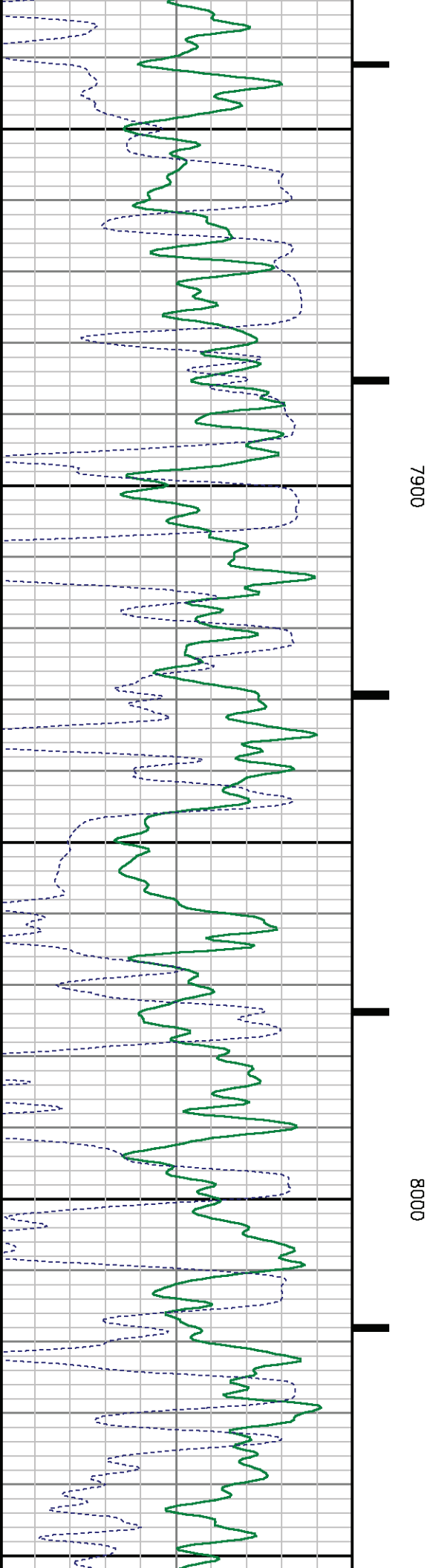
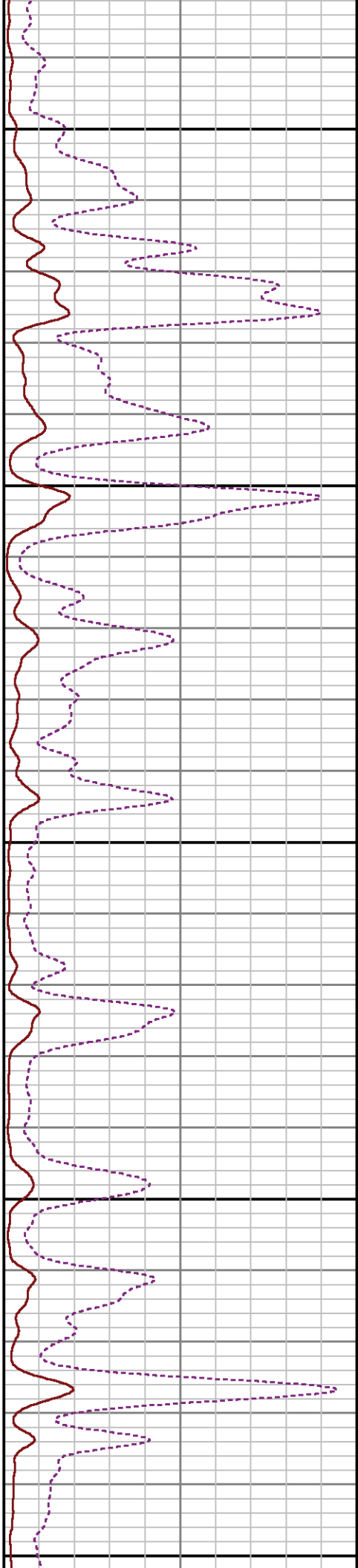
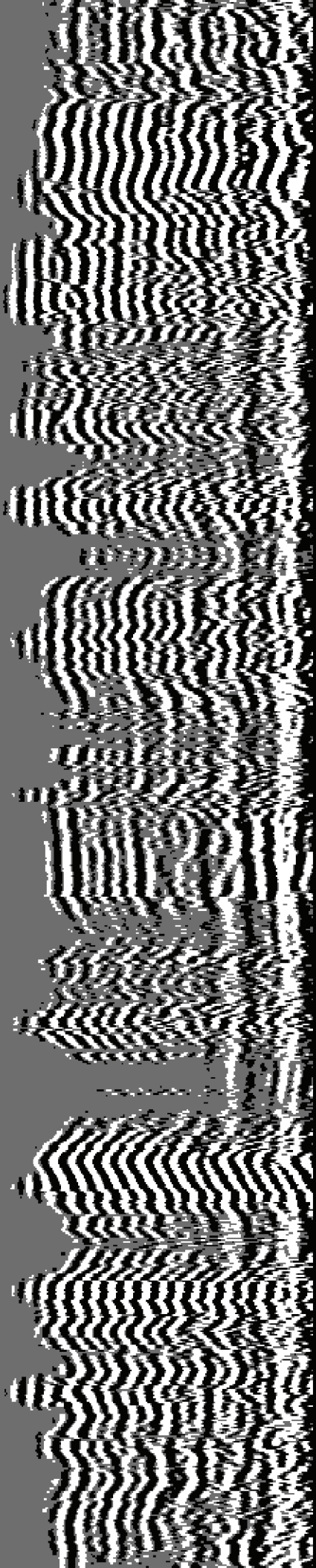
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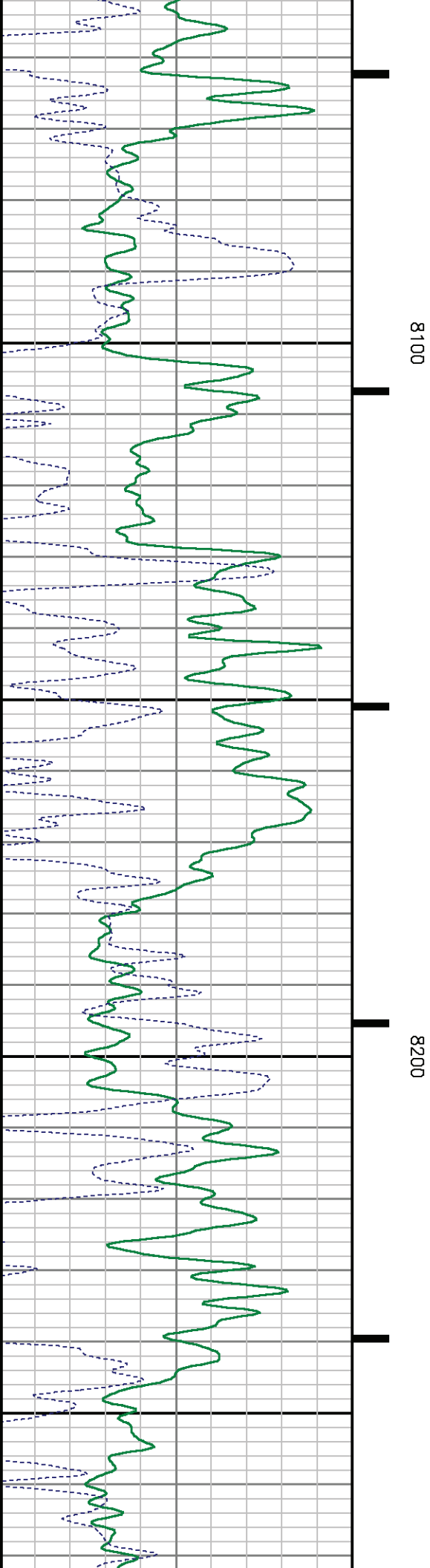
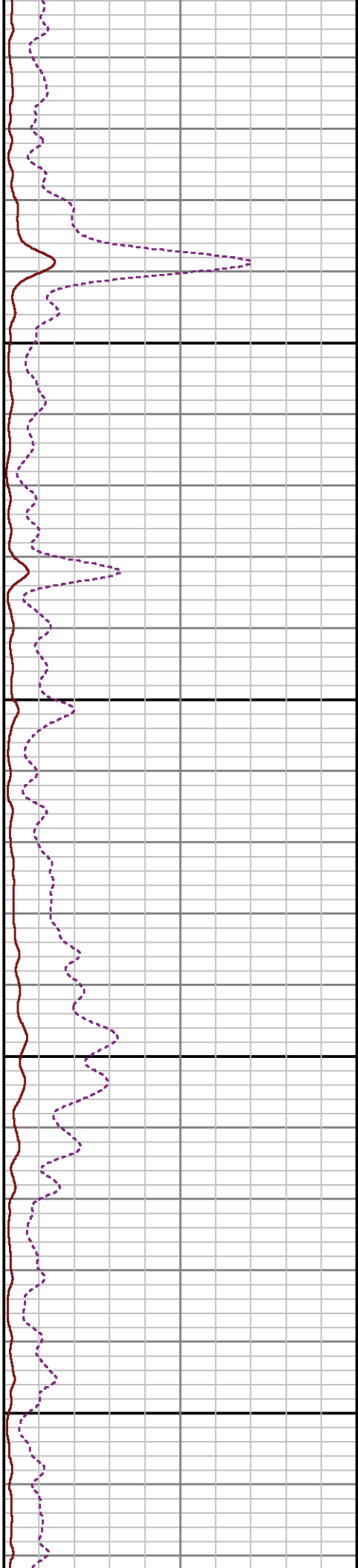
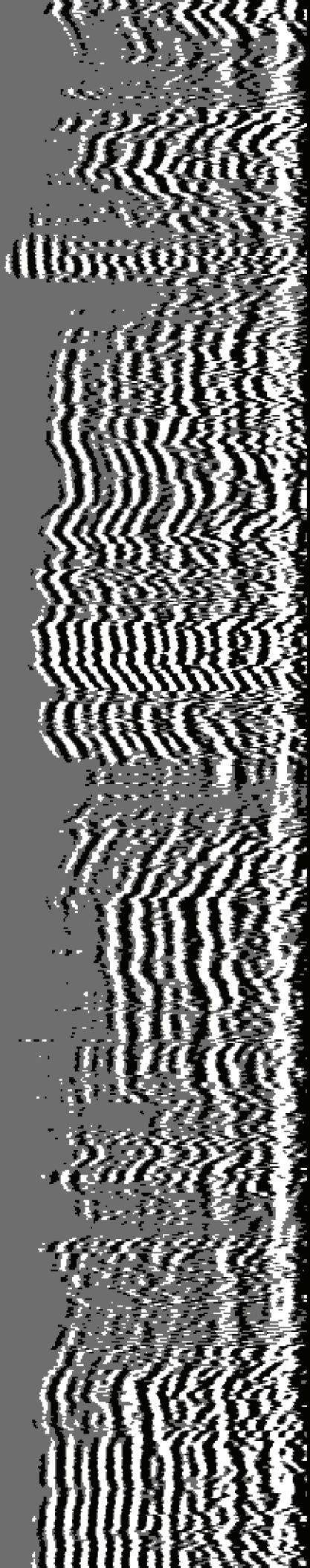




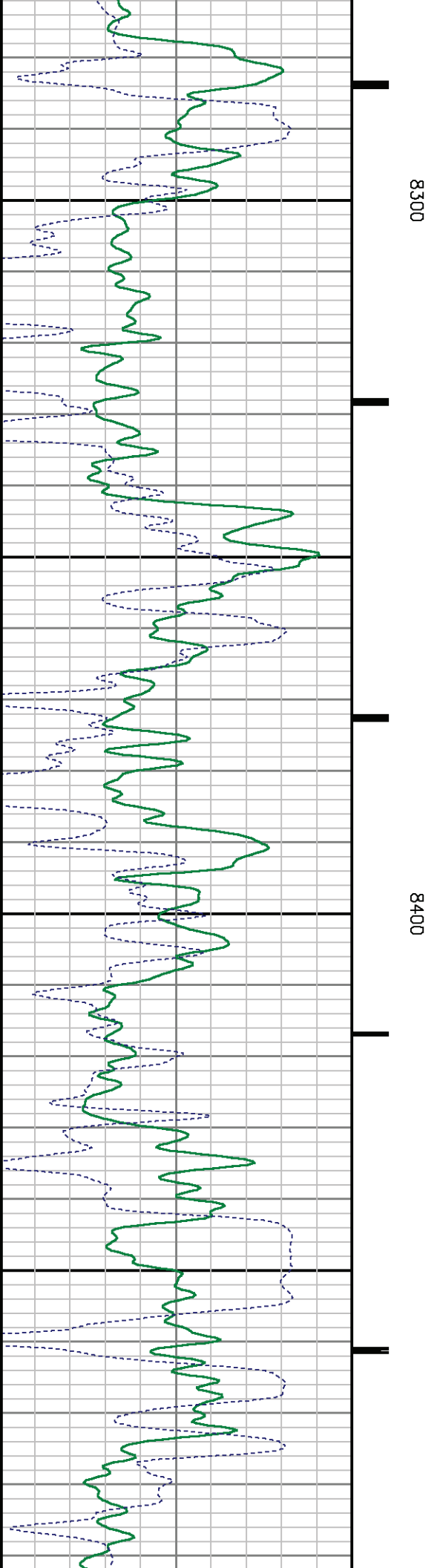
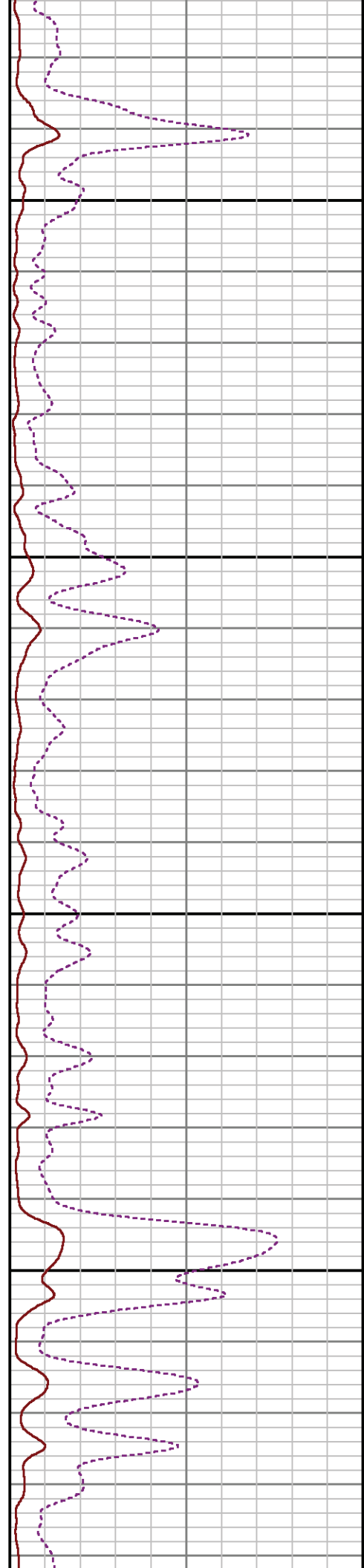
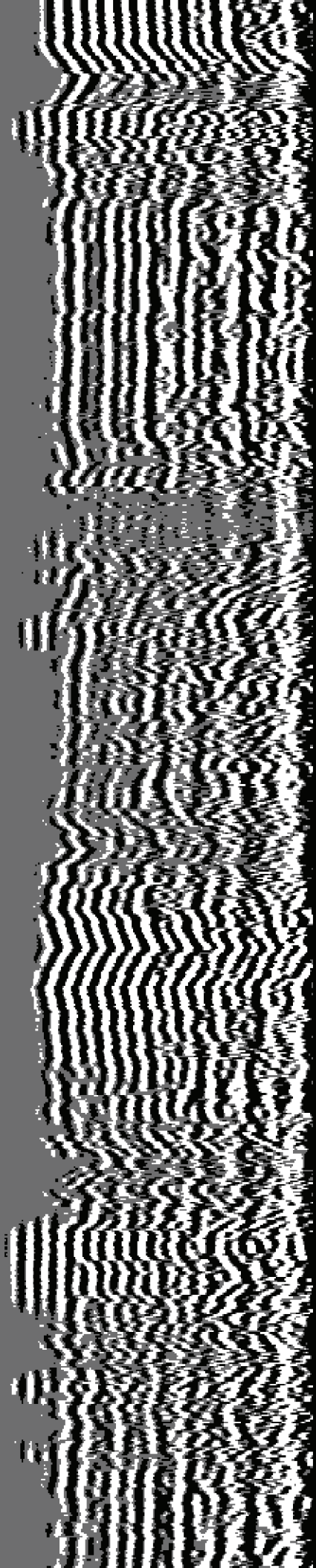




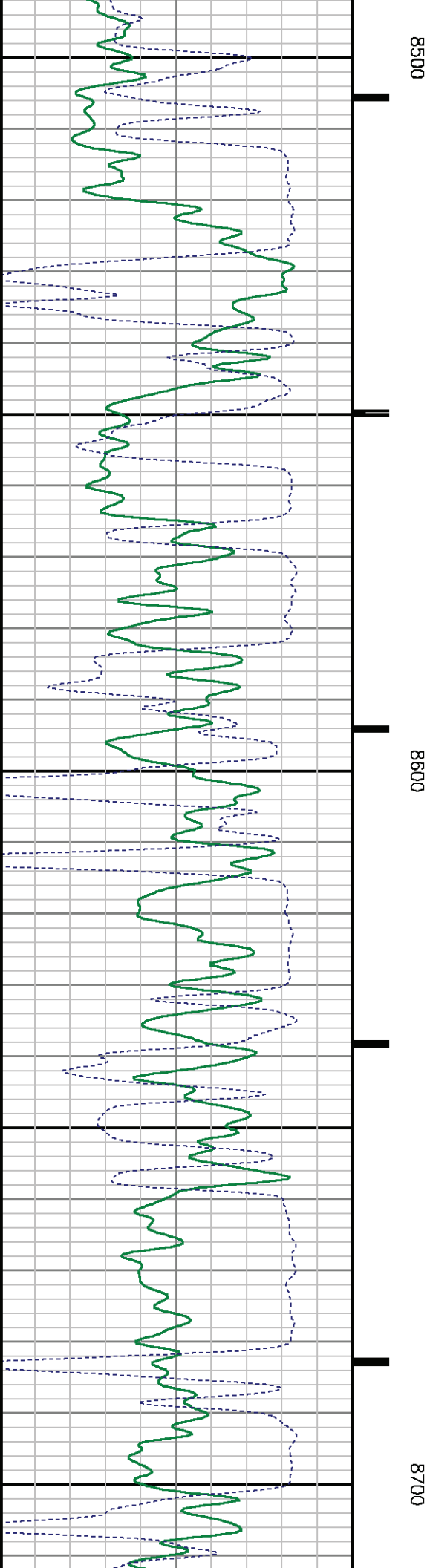
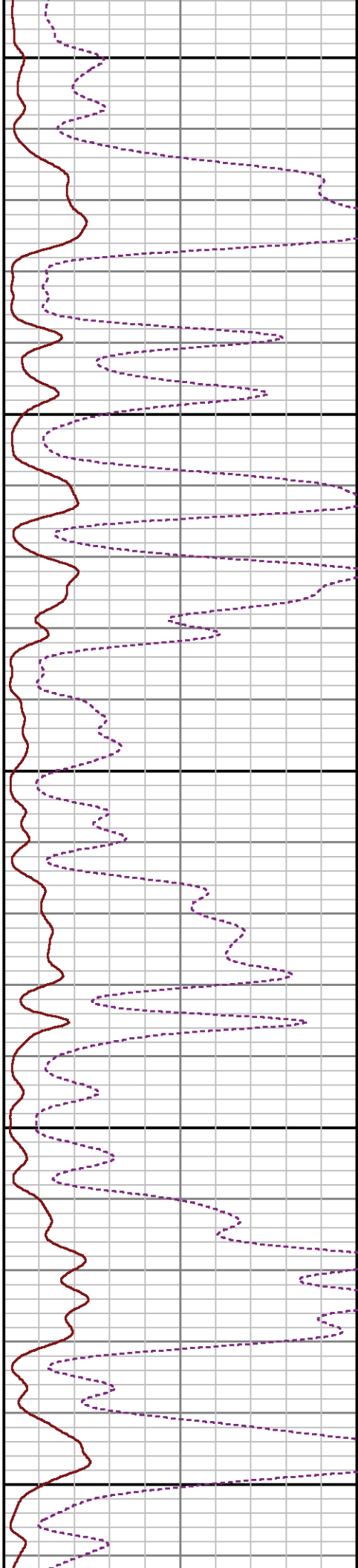
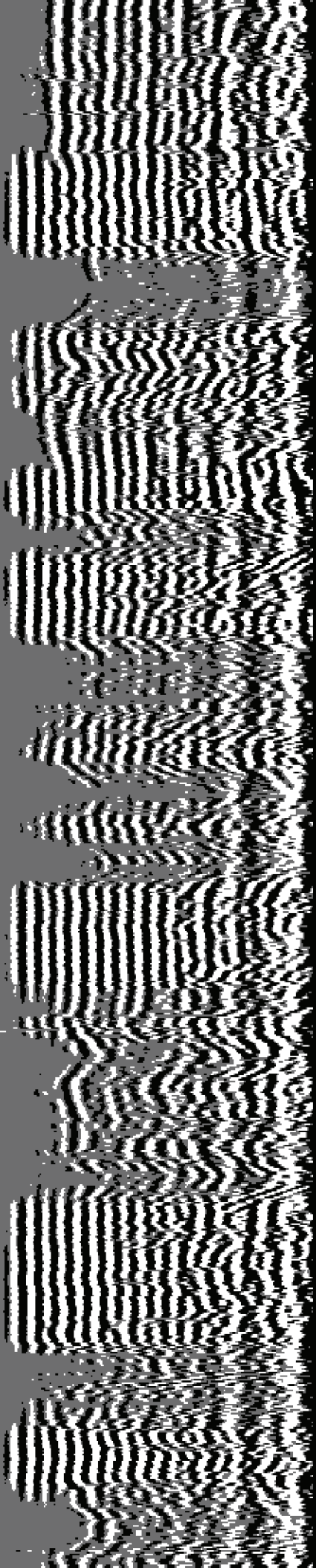


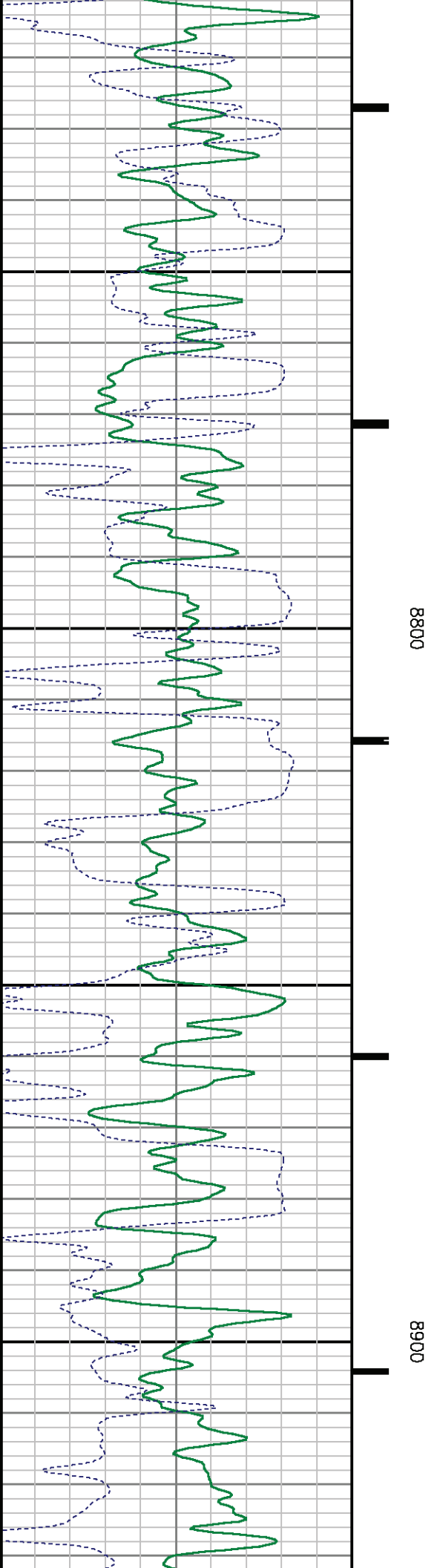
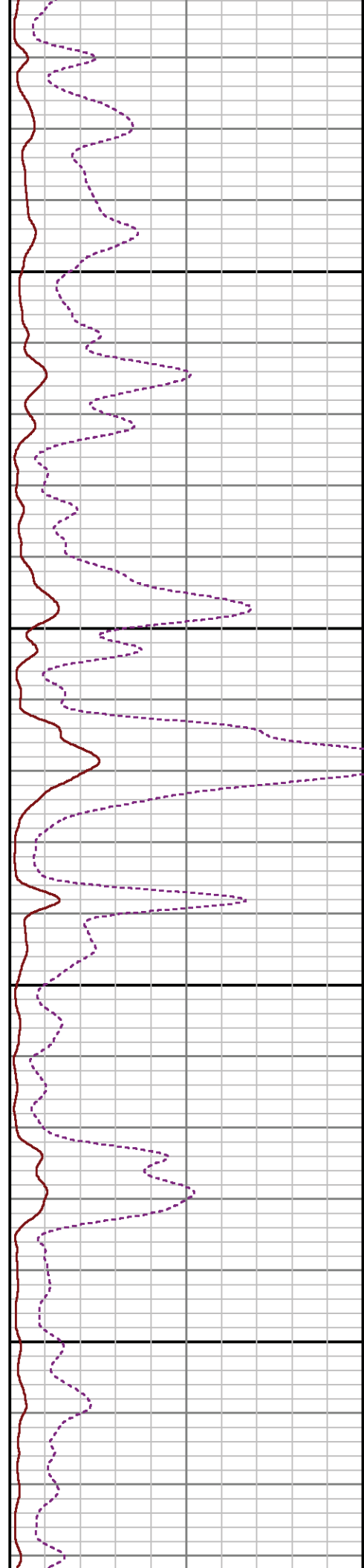
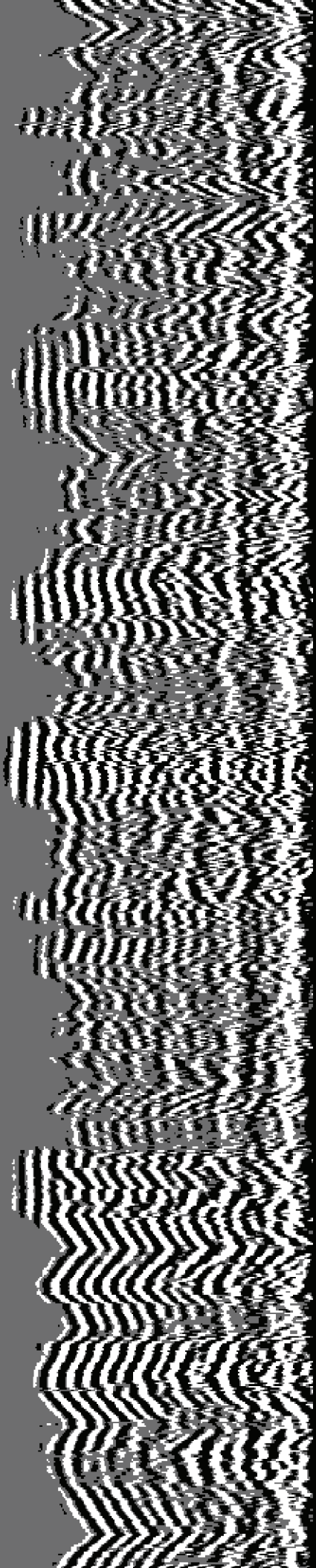


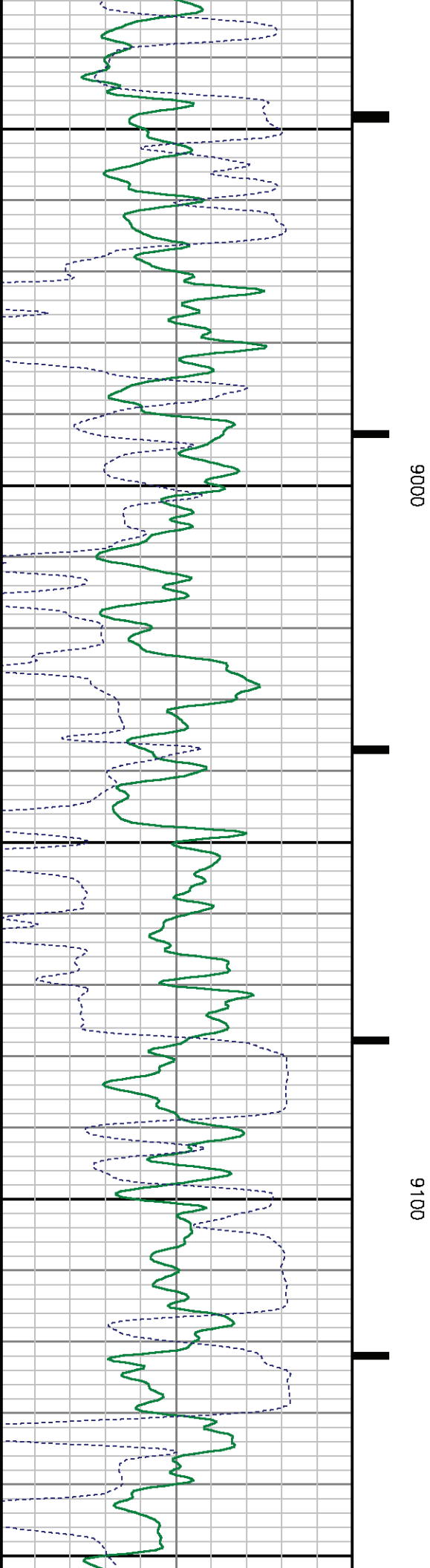
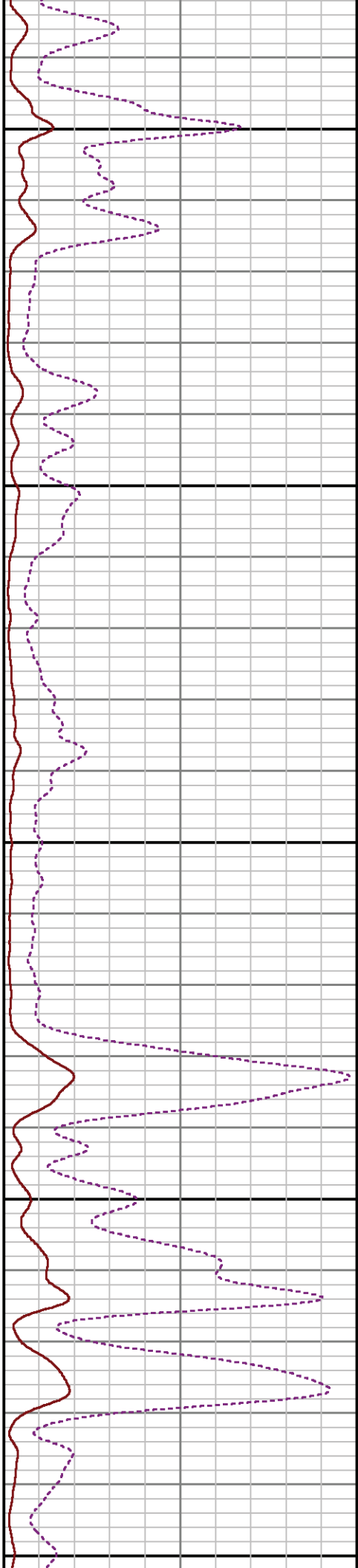
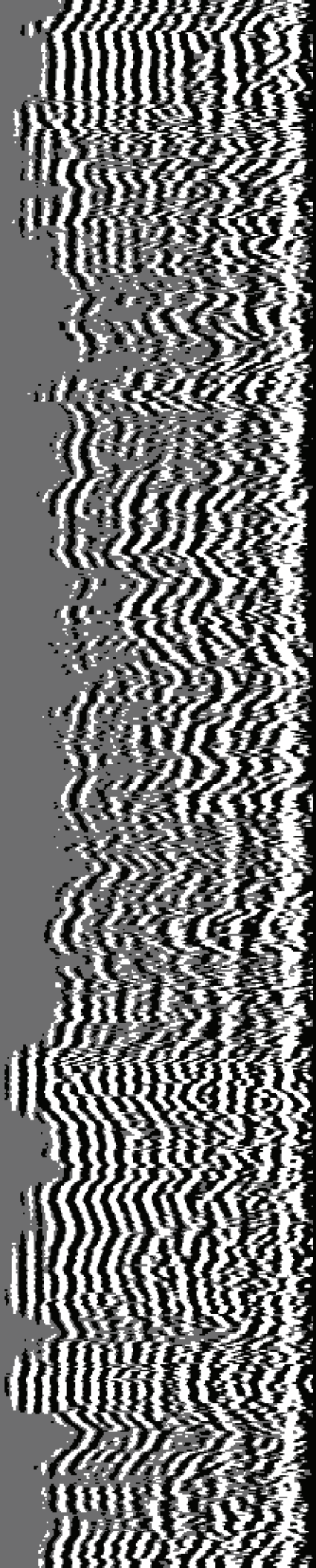


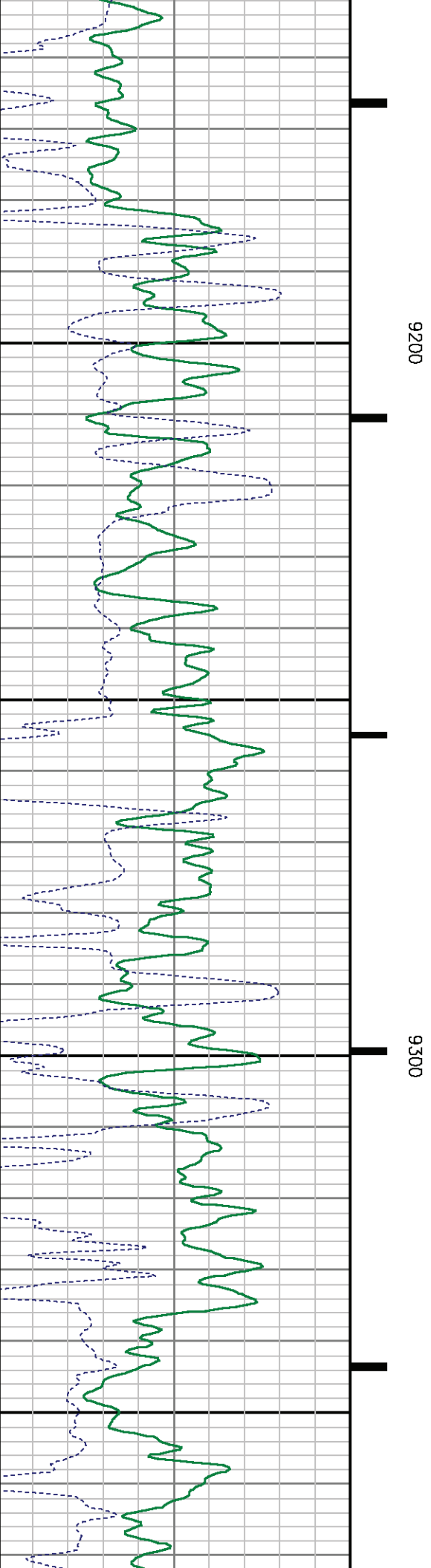
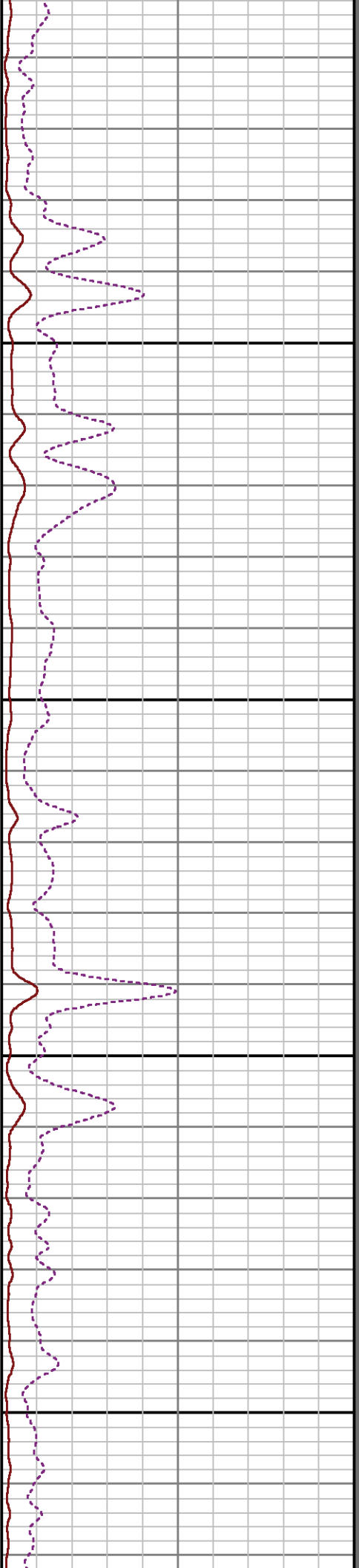
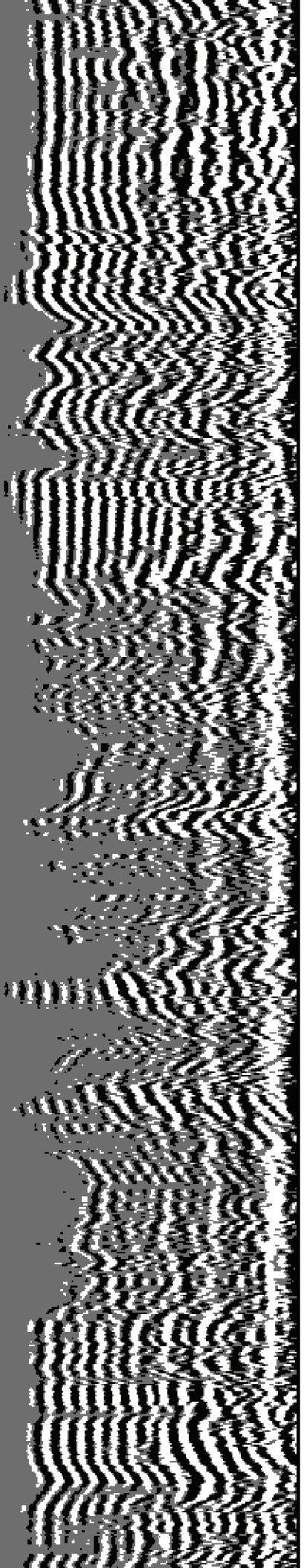




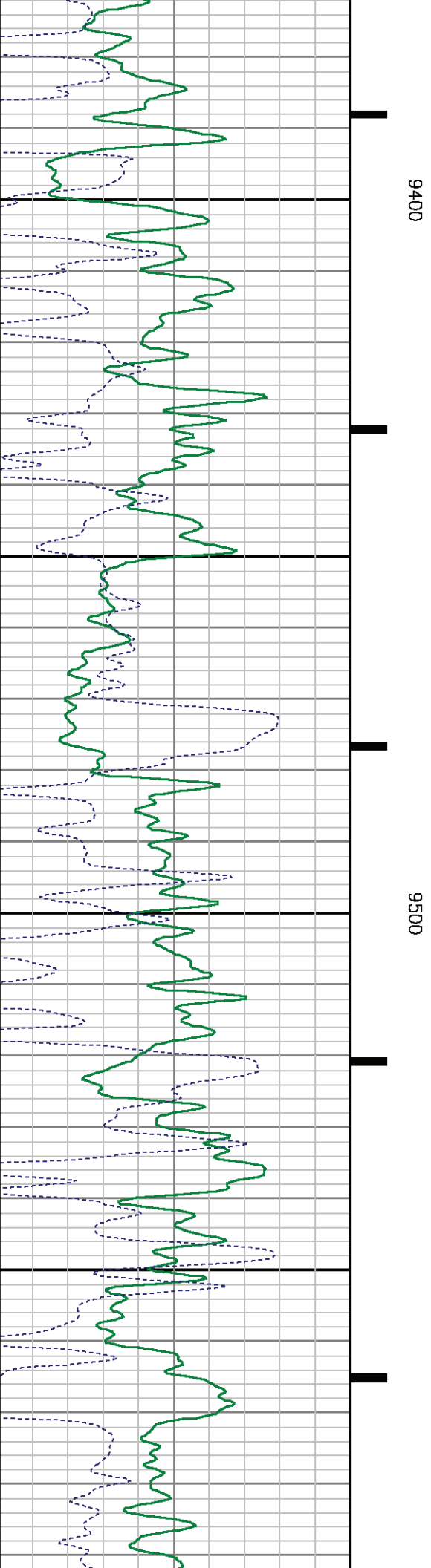
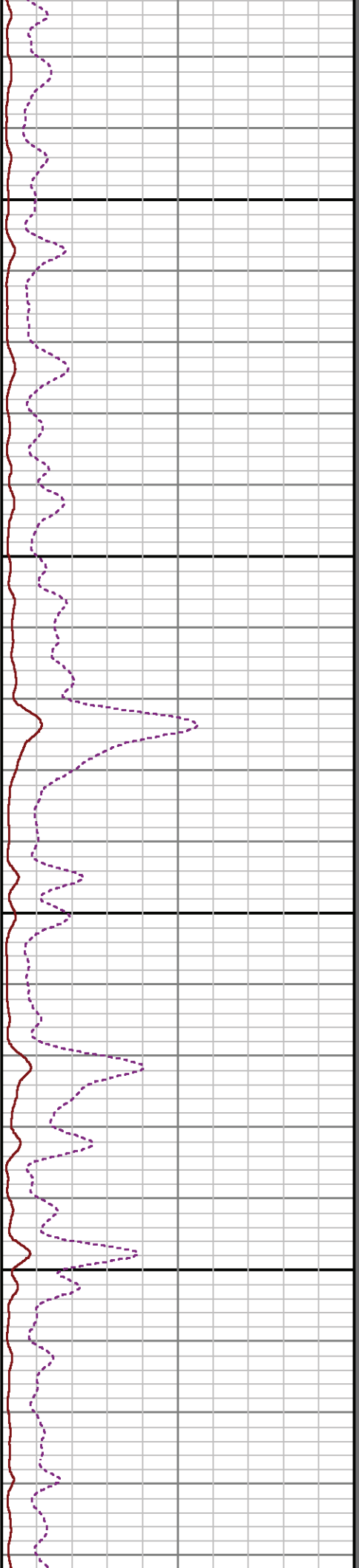
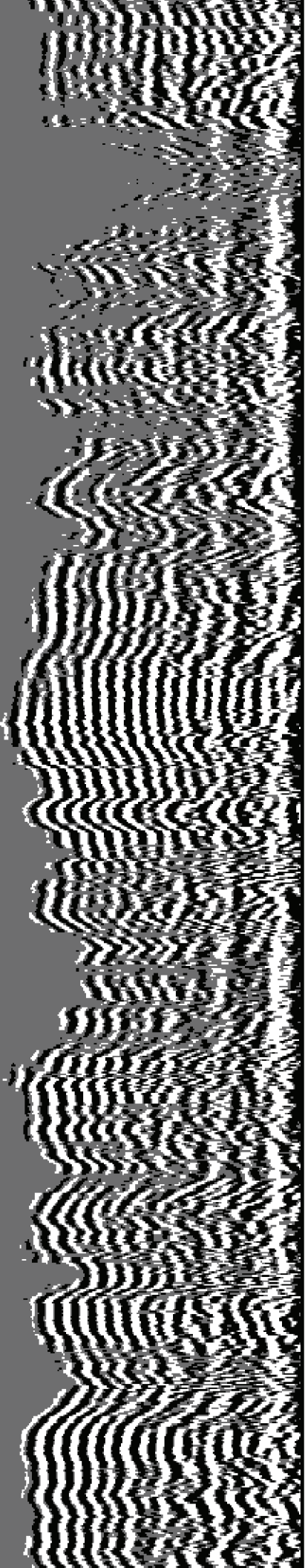




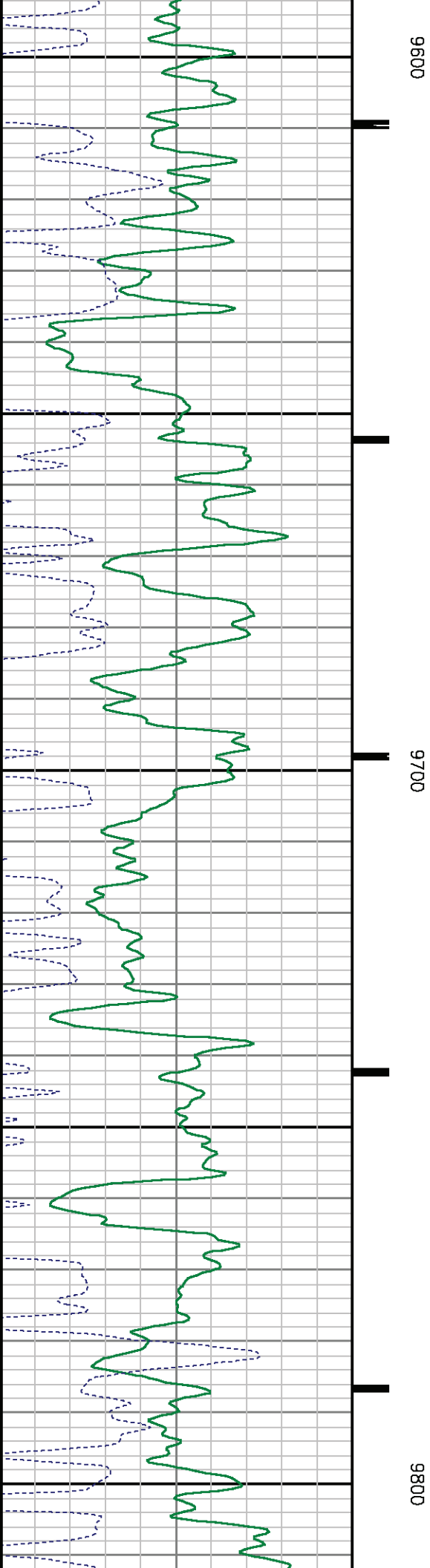
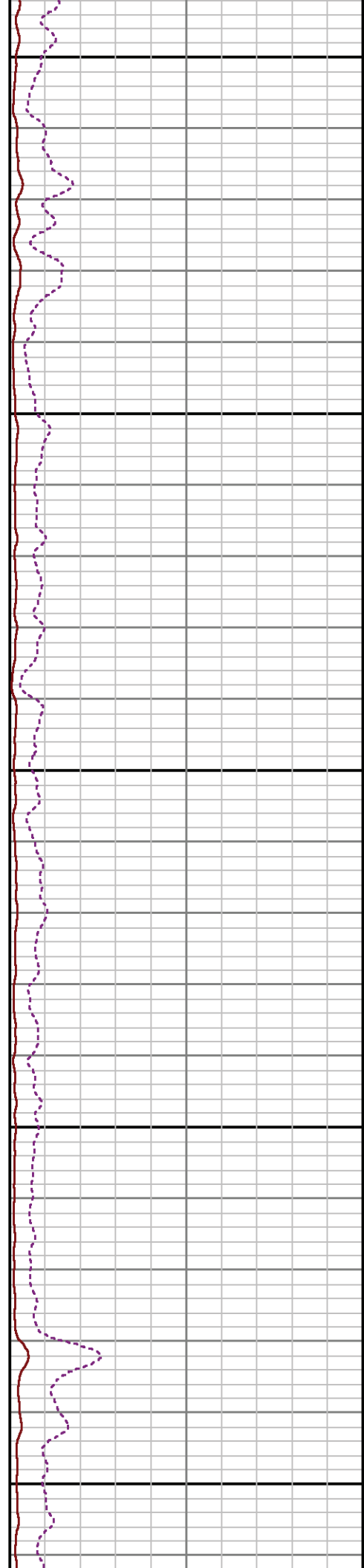
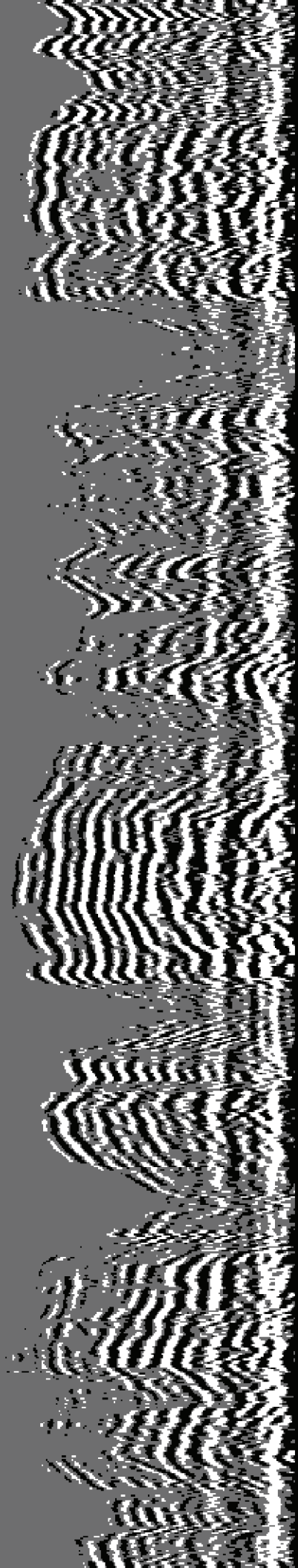


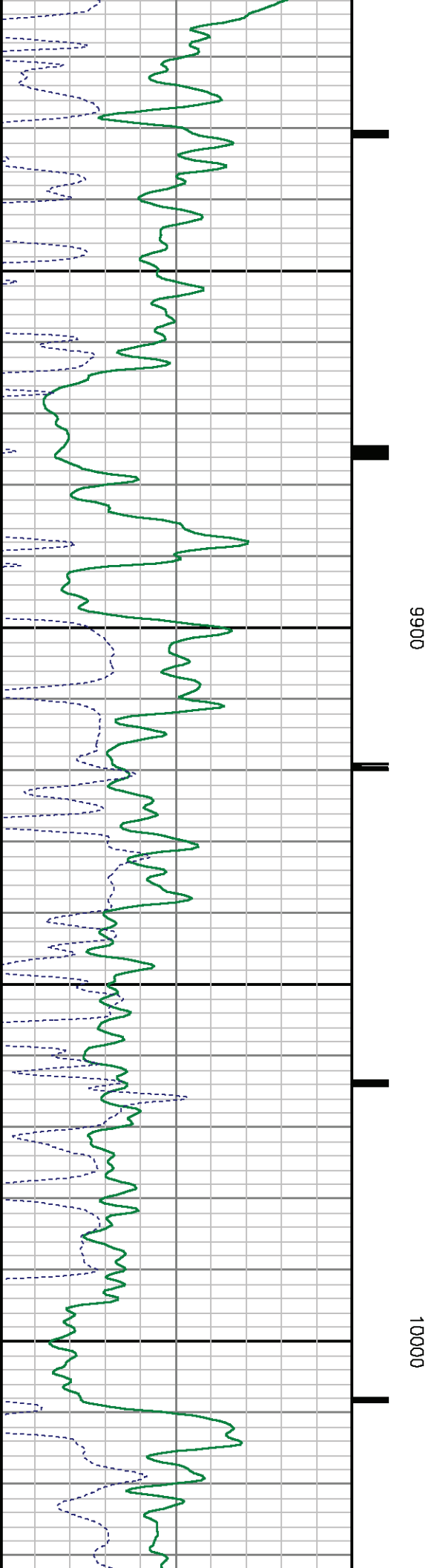
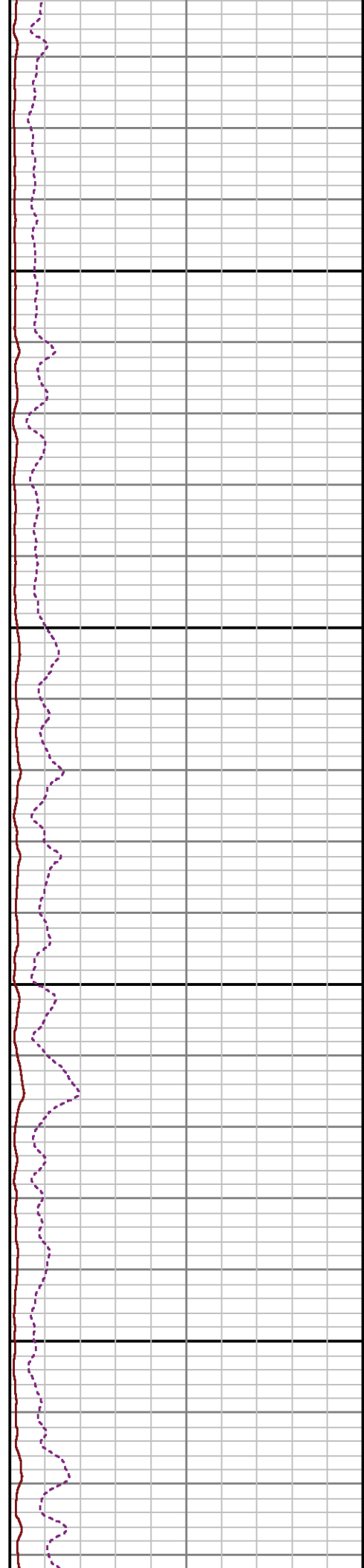
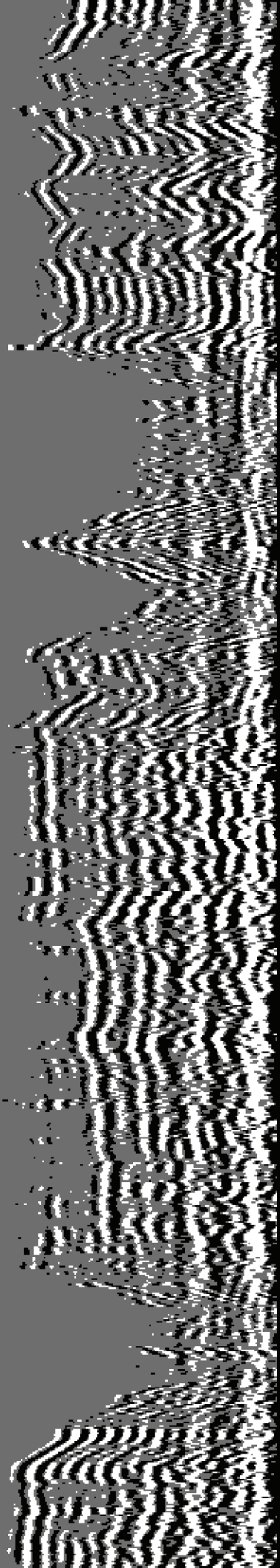


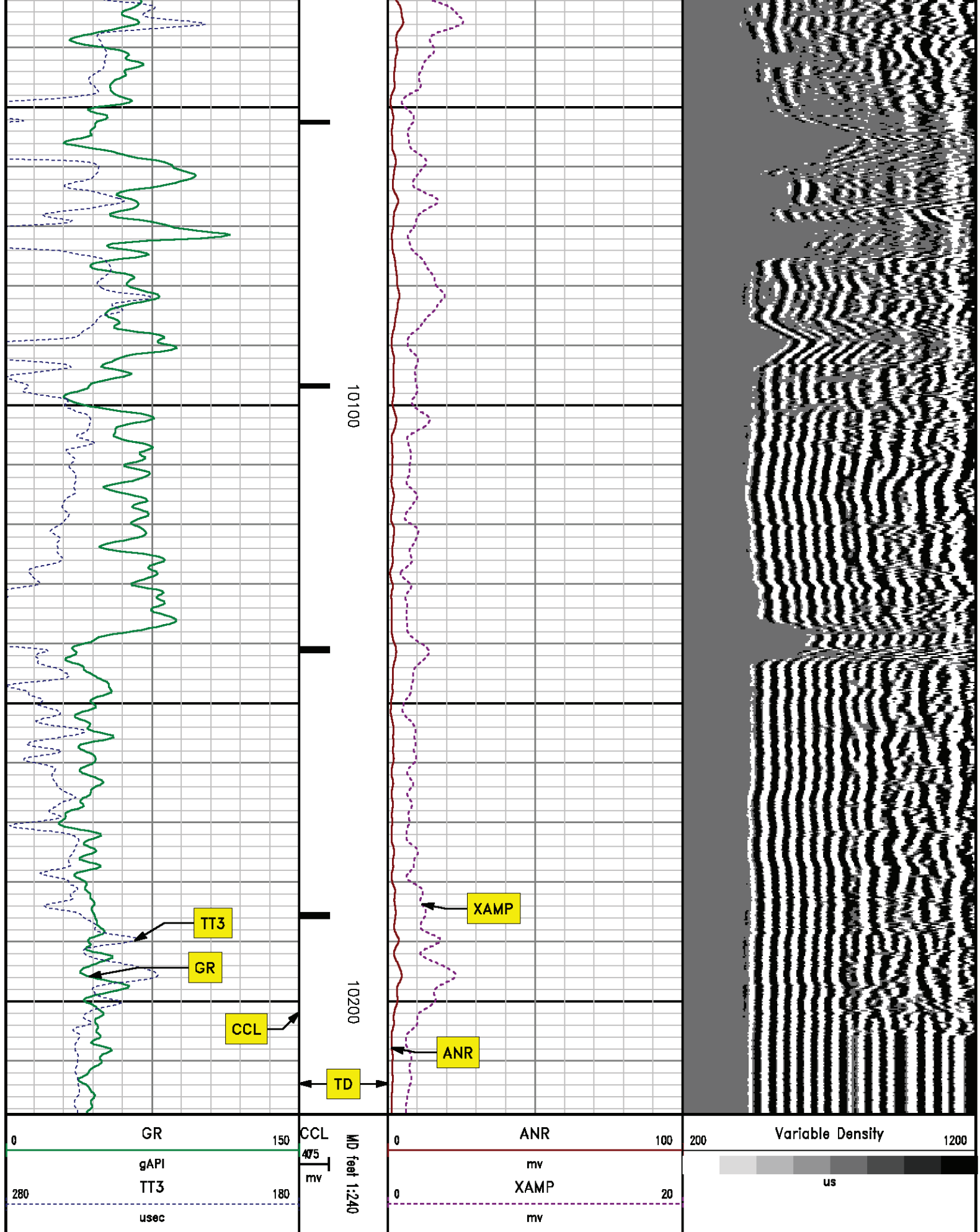












# ***SECONDARY PRESENTATION***

## ***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	30.130	10238.750
RAL	Amp Gate Start Near	195.000	usec	30.130	10238.750
RAL	Amp Gate Start Radial	195.000	usec	30.130	10238.750
RAL	Amp Gate Width Far	25.000	usec	30.130	10238.750
RAL	Amp Gate Width Near	25.000	usec	30.130	10238.750
RAL	Amp Gate Width Radial	25.000	usec	30.130	10238.750
RAL	casing od	4.500	inches	30.130	10238.750
RAL	casing wt	11.600	lbm/ft	30.130	10238.750
RAL	FB Start Far	291.900	usec	30.130	10238.750
RAL	FB Start Near	180.000	usec	30.130	10238.750
RAL	FB Start Radial	180.000	usec	30.130	10238.750
RAL	FB Thresh Far	10.000	mv	30.130	10238.750
RAL	FB Thresh Near	4.000	mv	30.130	10238.750
RAL	FB Thresh Radial	4.000	mv	30.130	10238.750
RAL	Fluid Travel Time	200.000	usec/ft	30.130	10238.661

### **DEPTH OFFSETS**

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					