



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH80983	Company Well Field County	WPX ENERGY FEDERAL RU 331-5 RULISON GARFIELD	State CO
API No: 05045217880000	Location SHL: 225' FNL & 2615' FWL BHL: 509' FNL & 1974' FEL SEC 5 TWP 7S RGE 9SW		Other Services RPM
5 7S 9SW RU 23-5 PAD NABORS 576	Permanent Datum Log Measured From Drill Measured From		Elevations KB 7628 ft DF GL 7602 ft

Date	28/DEC/13
Run	ONE
Service Order	US625077
Depth Driller	9981 ft
Depth Logger	9962 ft
Bottom Logged Interval	9952 ft
Top Logged Interval	26 ft
Time Started	9:00
Time Finished	13:30
Operator Rig Time	4.5 HOURS
Type of Fluid In Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	78 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	240 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	1105 ft
8.75 In	1105 ft	10052 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In			0 ft	1105 ft
4.5 In	11.6 lbm/ft		0 ft	10052 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 7 feet.
Logged with zero PSI at wellhead.

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	29.447	9980.750
RAL	Amp Gate Start Near	195.000	usec	29.447	9980.750
RAL	Amp Gate Start Radial	195.000	usec	29.447	9980.750
RAL	Amp Gate Width Far	25.000	usec	29.447	9980.750
RAL	Amp Gate Width Near	25.000	usec	29.447	9980.750
RAL	Amp Gate Width Radial	25.000	usec	29.447	9980.750
RAL	casing od	4.500	inches	29.447	9980.750
RAL	casing wt	11.600	lbm/ft	29.447	9980.750
RAL	FB Start Far	291.900	usec	29.447	9980.750
RAL	FB Start Near	175.391	usec	29.447	9980.750
RAL	FB Start Radial	175.391	usec	29.447	9980.750
RAL	FB Thresh Far	10.000	mv	29.447	9980.750
RAL	FB Thresh Near	4.000	mv	29.447	9980.750
RAL	FB Thresh Radial	4.000	mv	29.447	9980.750
RAL	Fluid Travel Time	200.000	usec/ft	29.447	9980.750

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

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

FPR3	FPR5	TT3	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

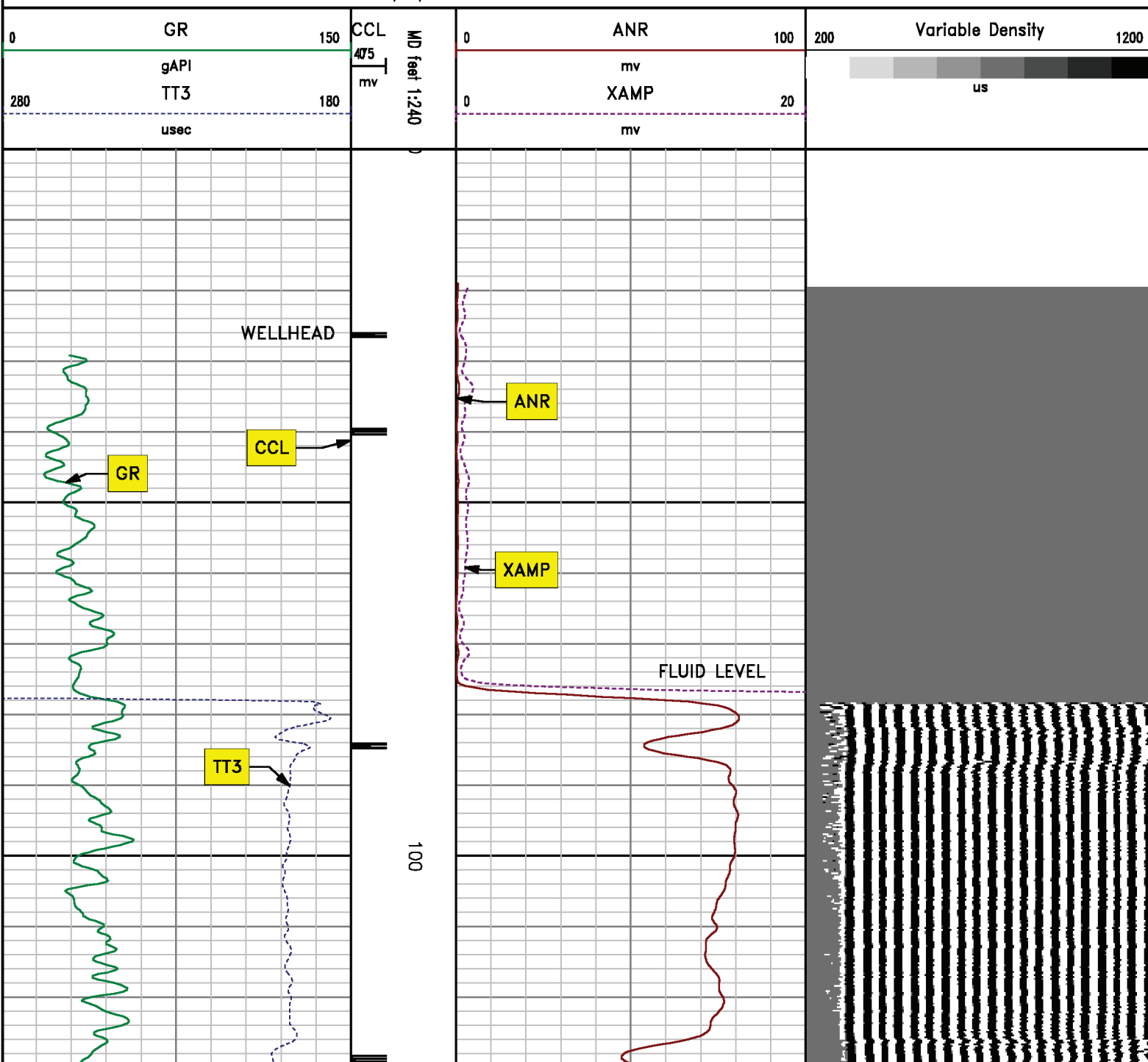
Well : FEDERAL RU 331-5

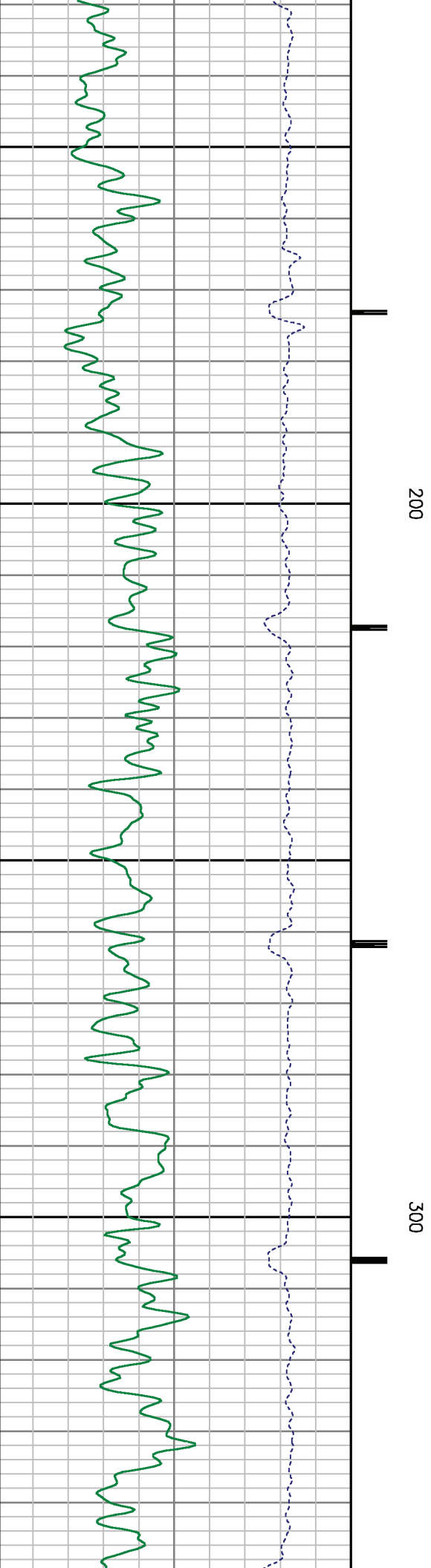
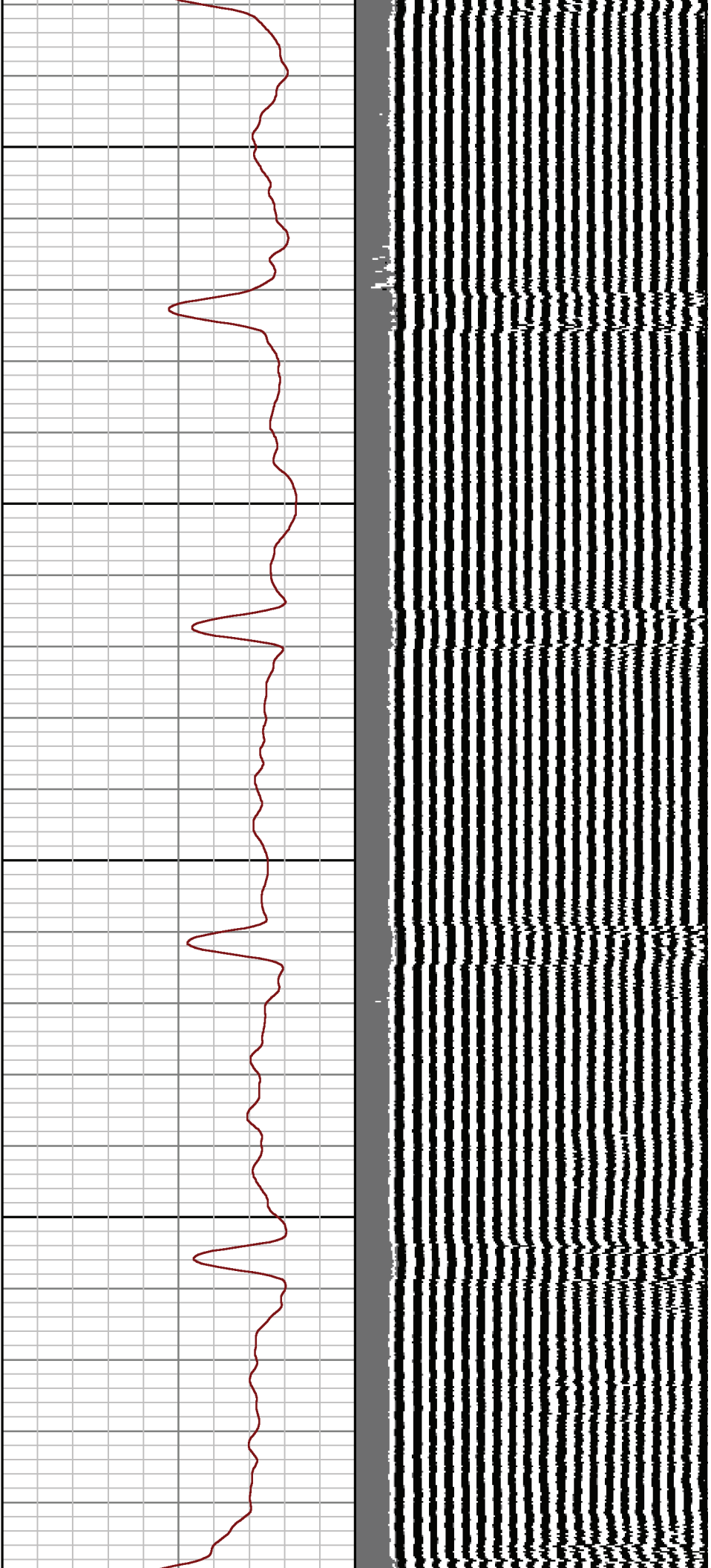
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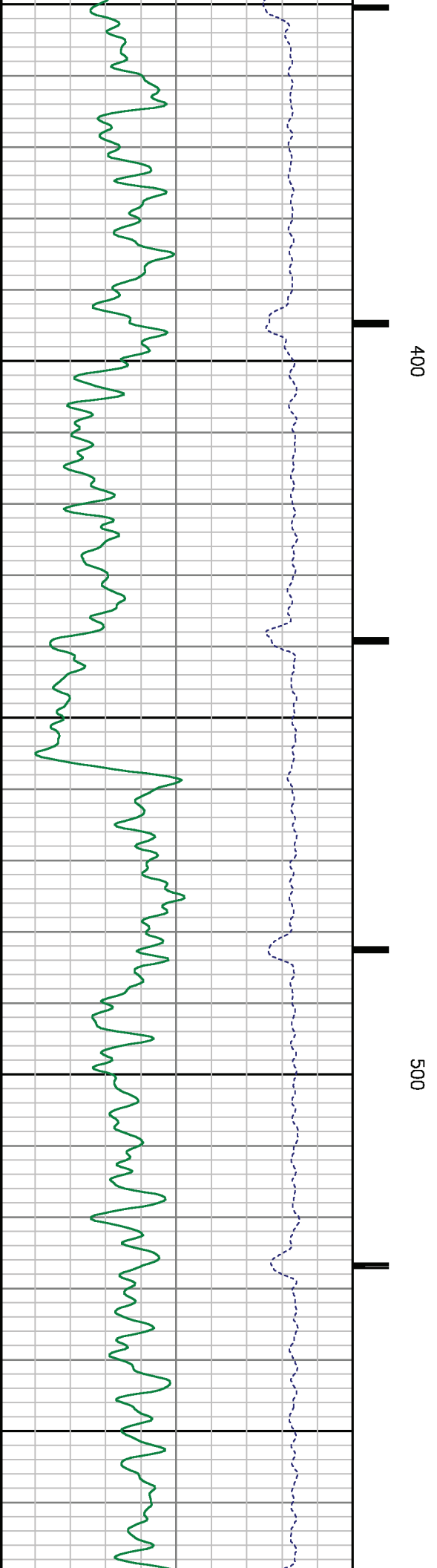
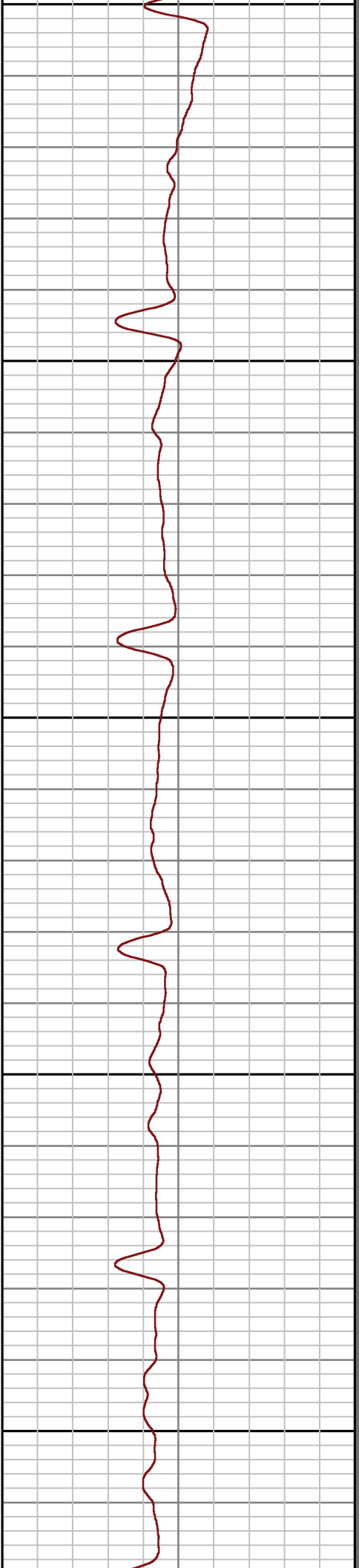
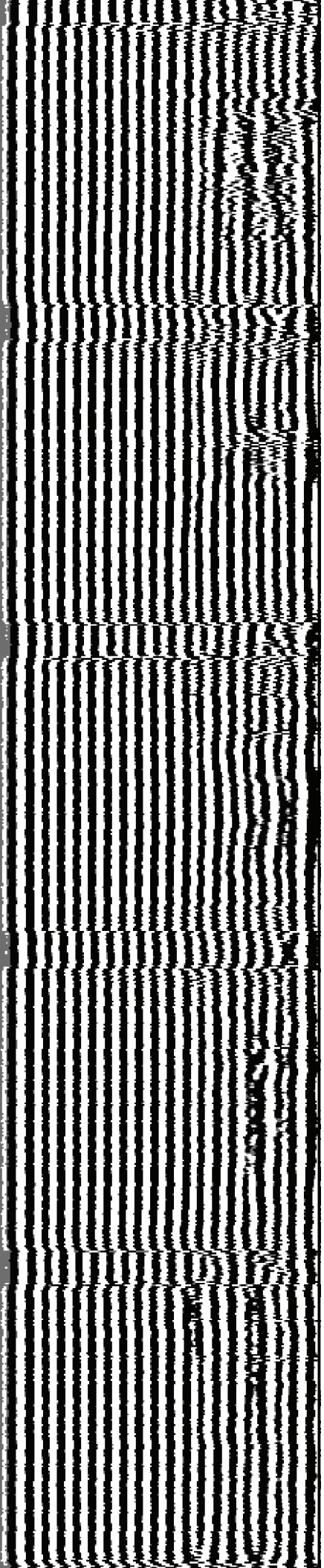
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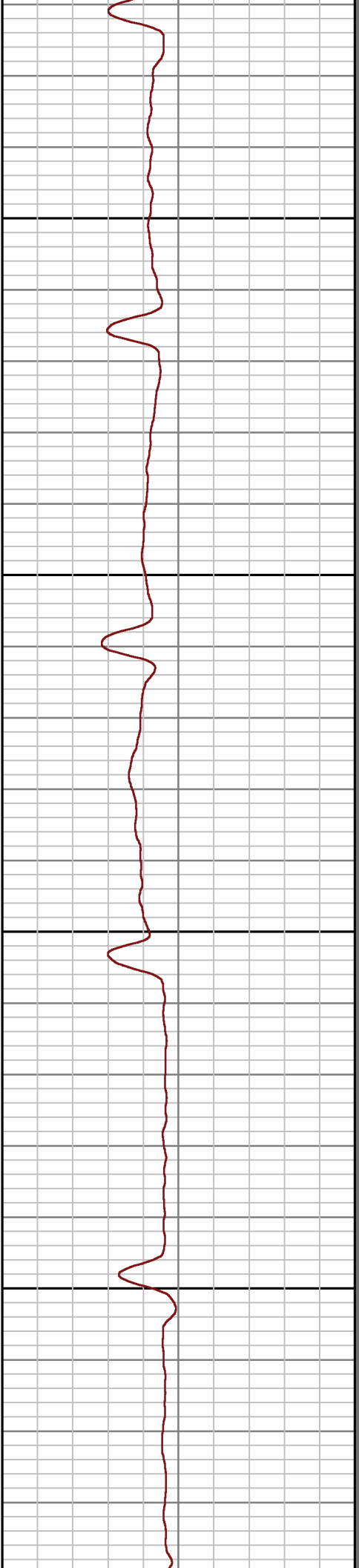
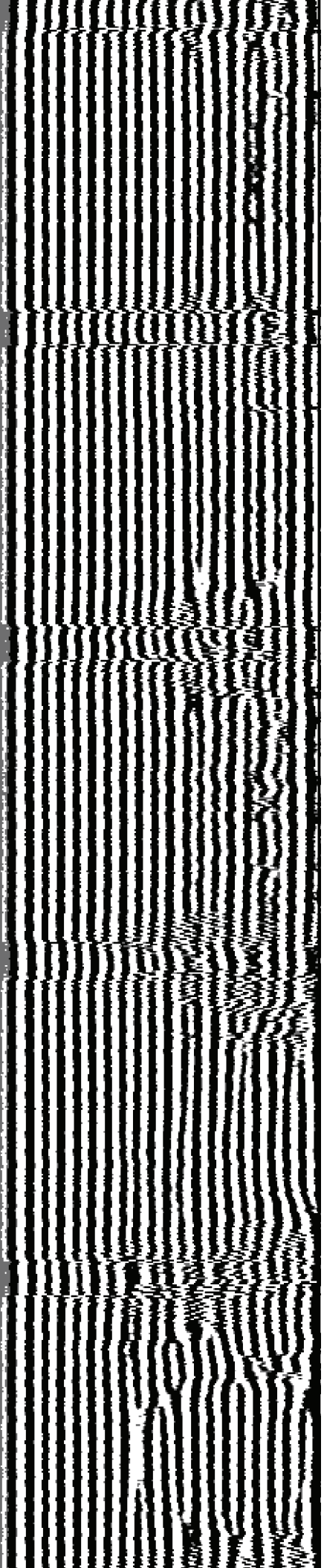
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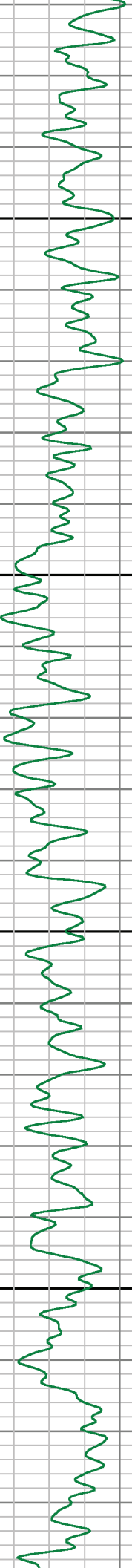
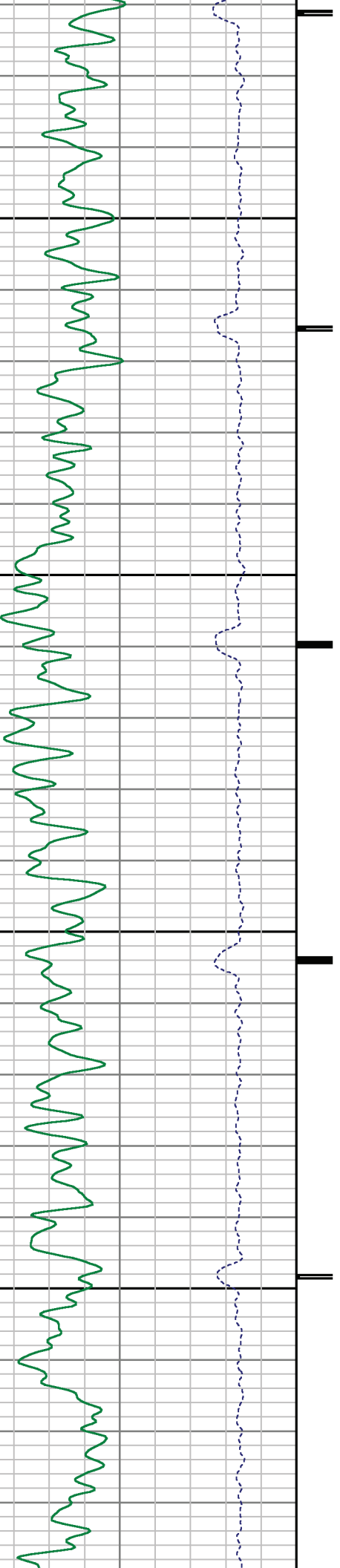


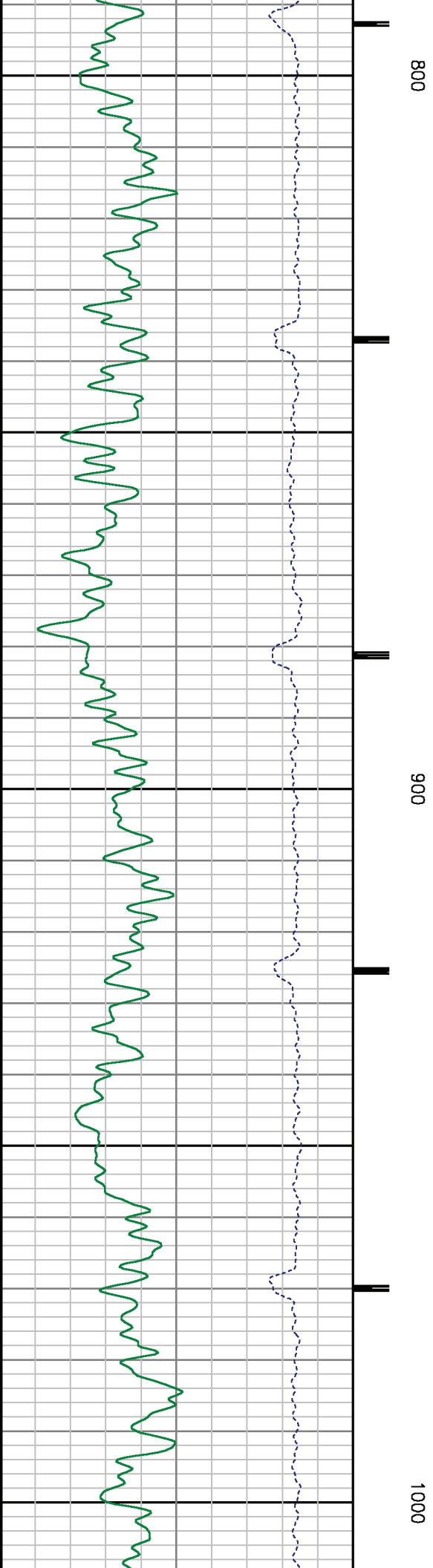
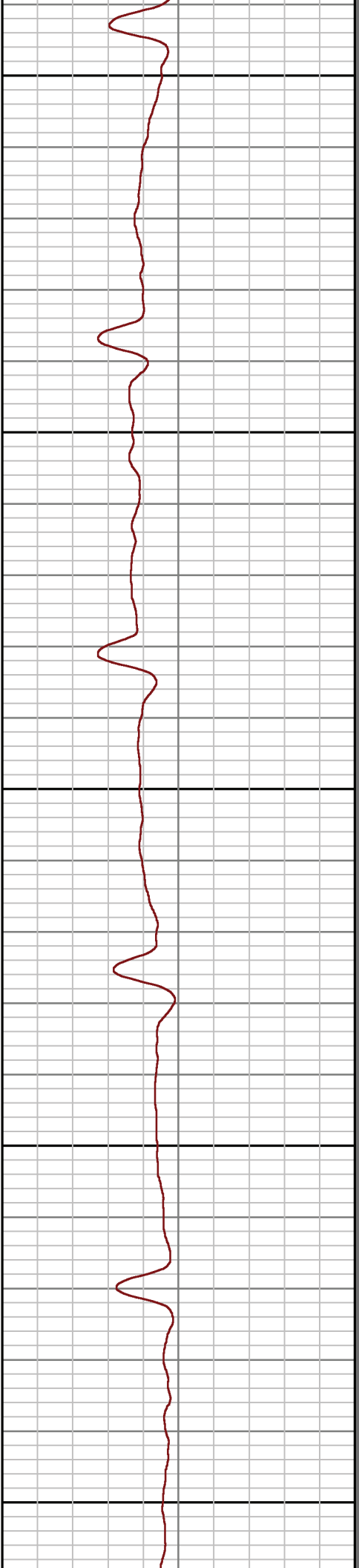
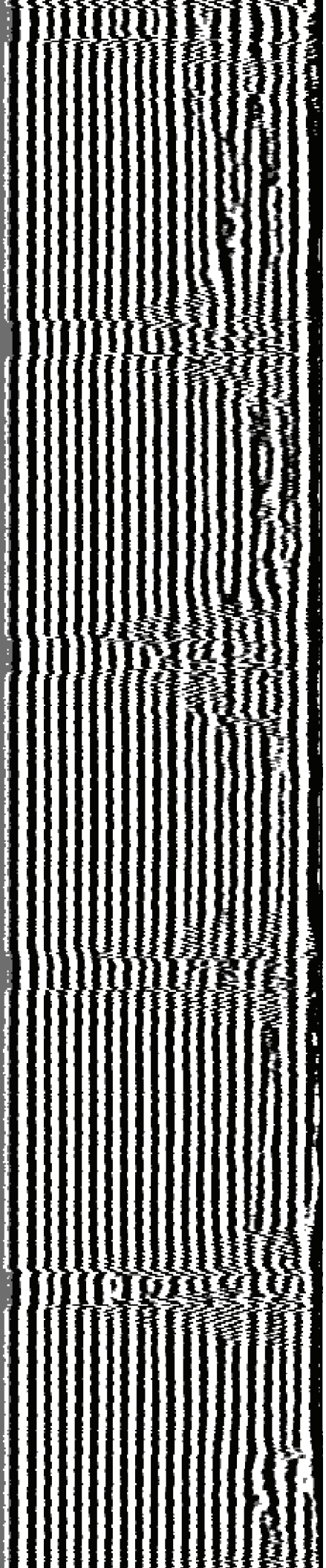


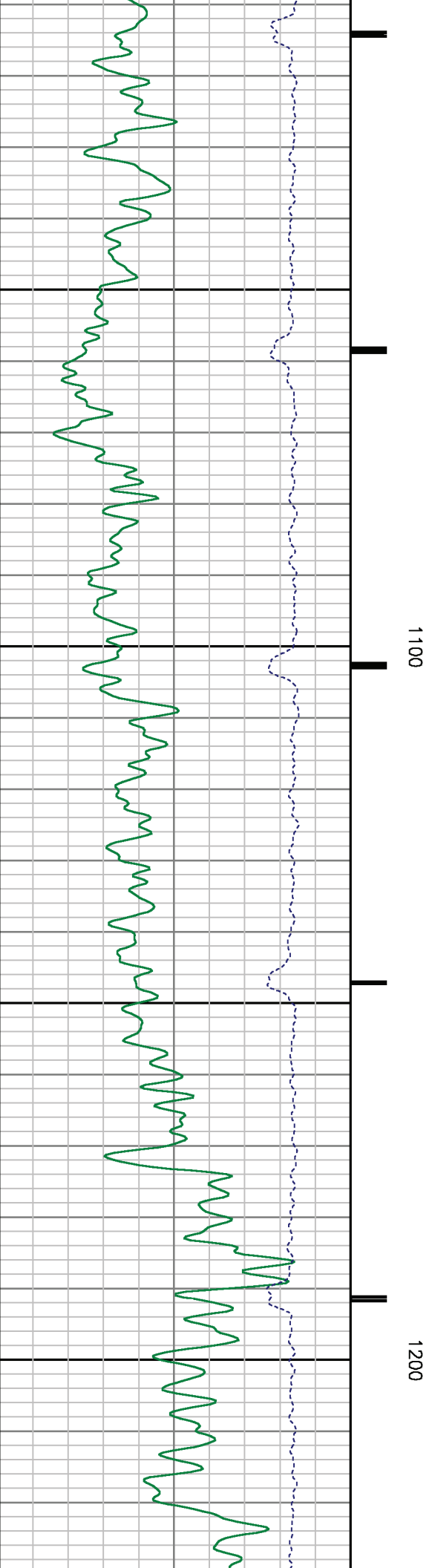
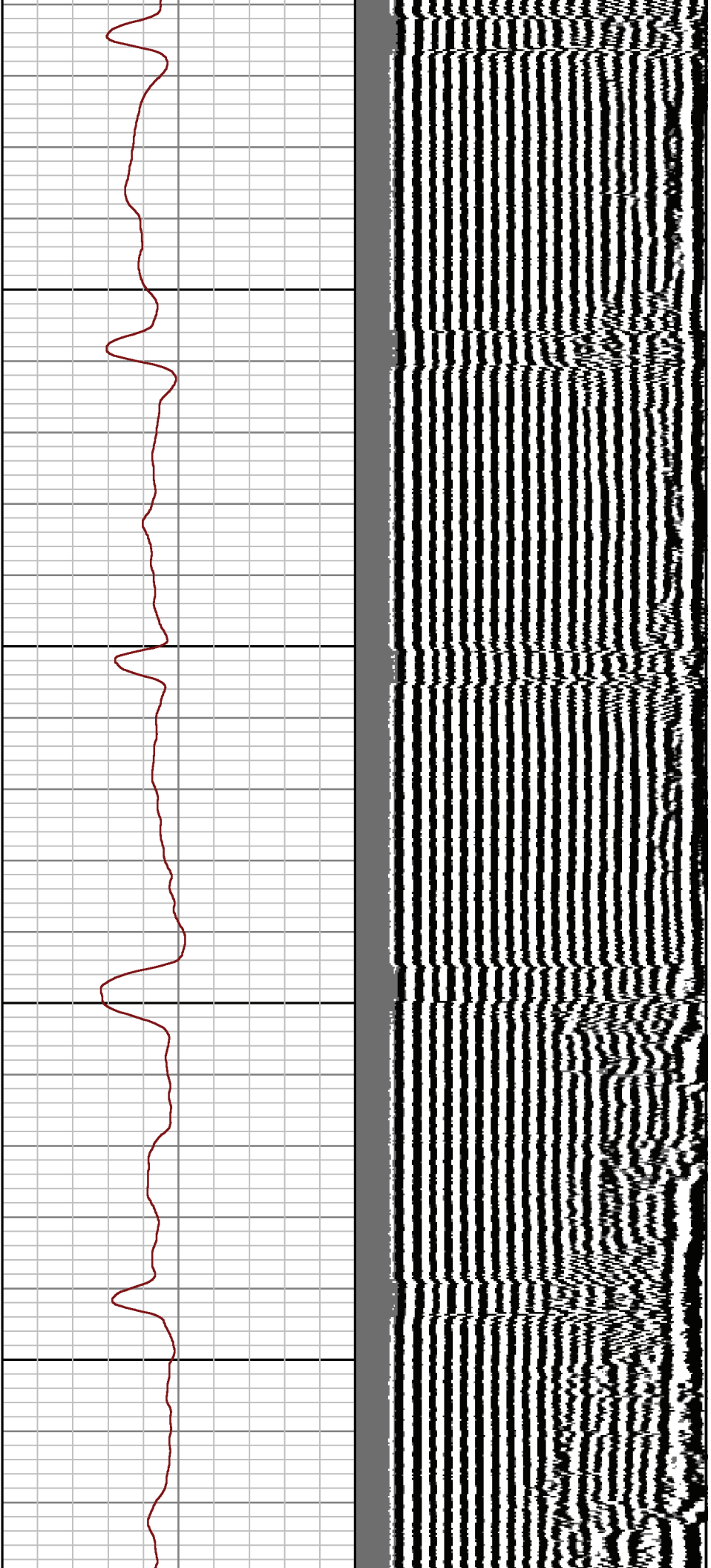


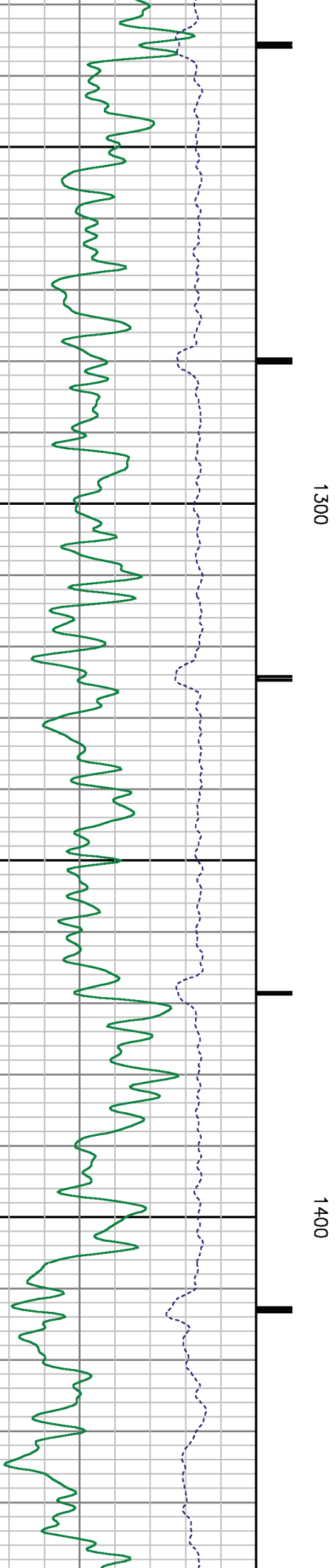
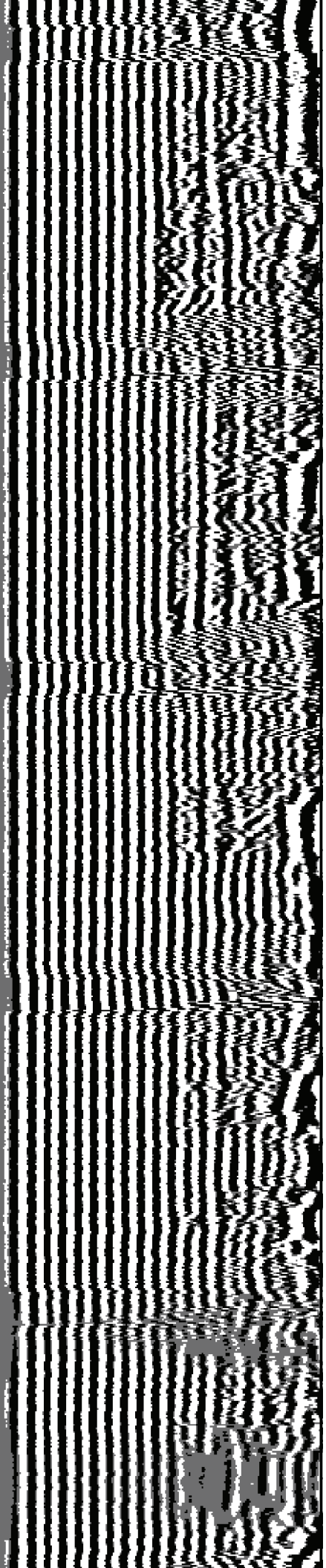
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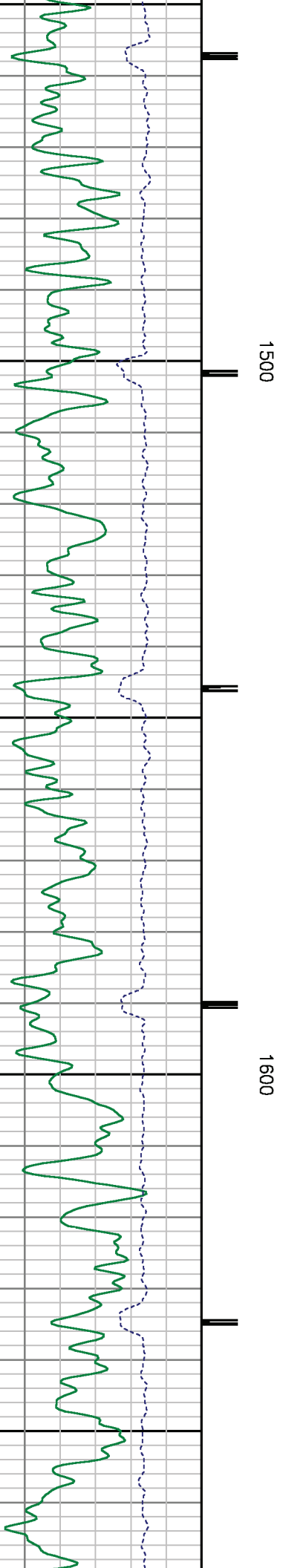
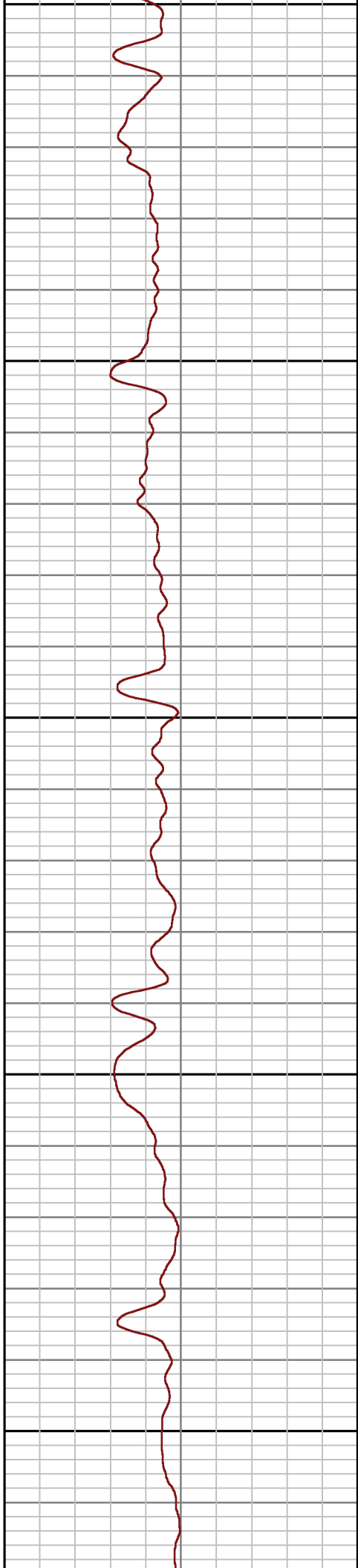
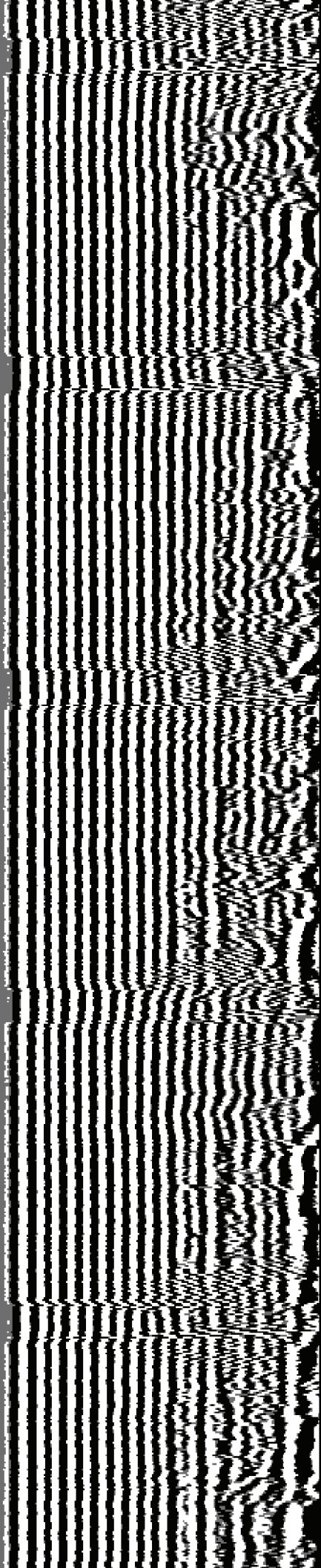
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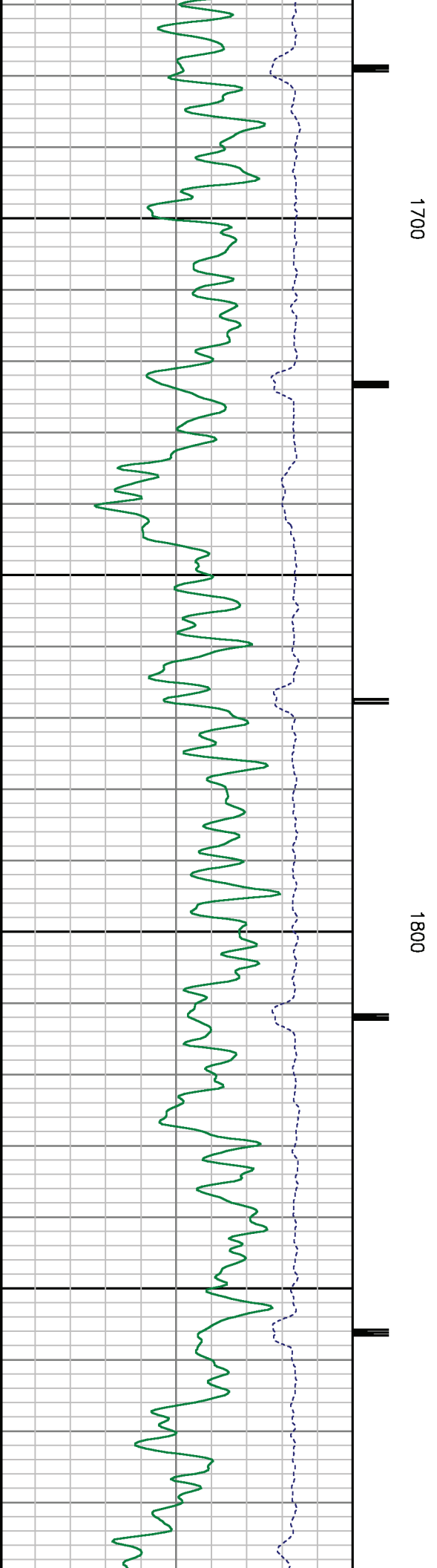
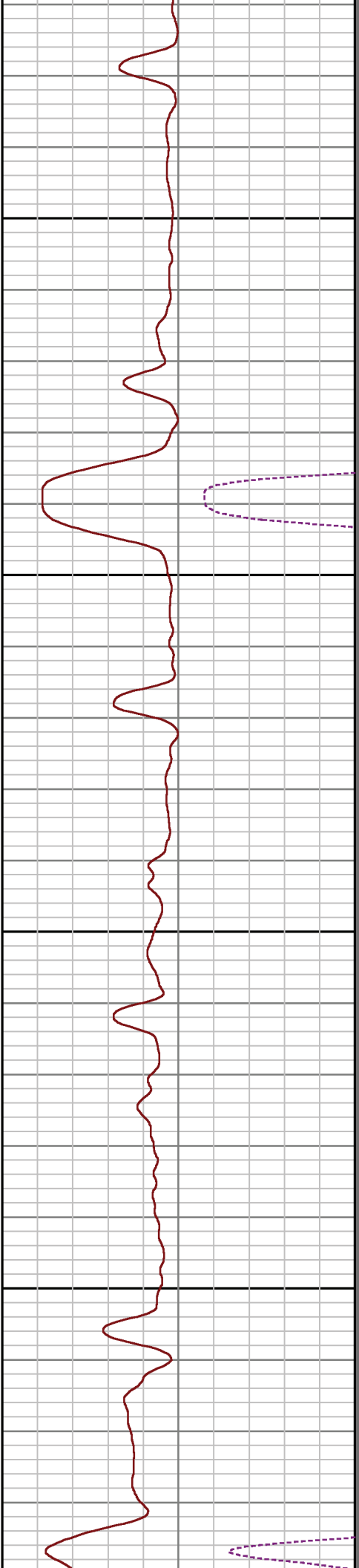
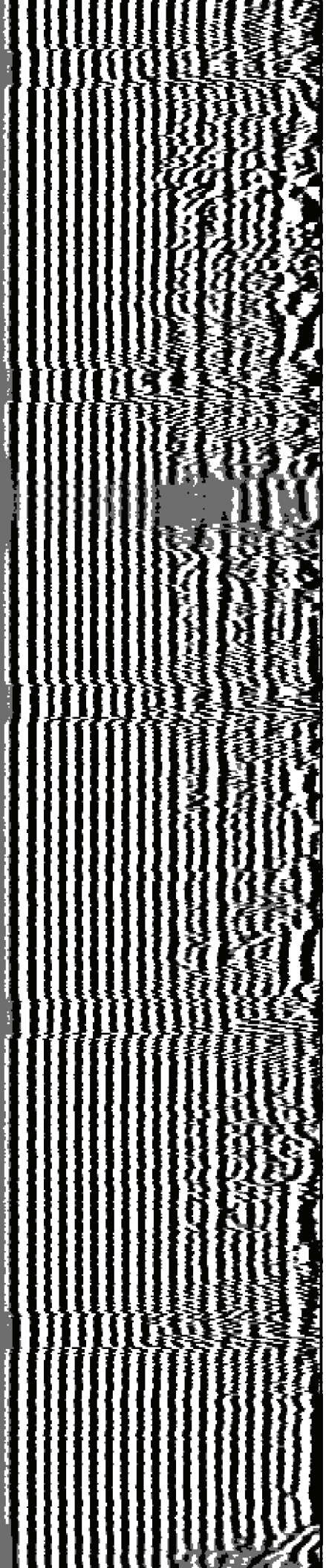


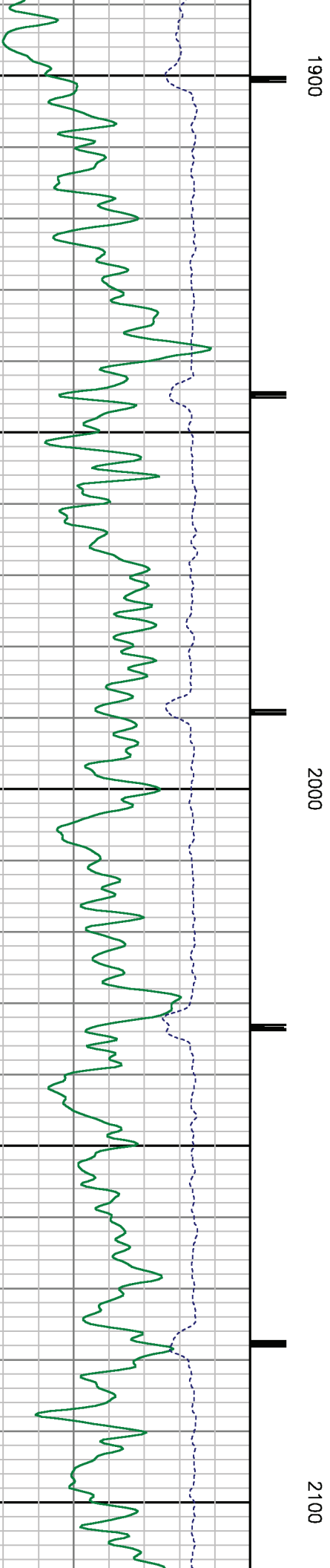
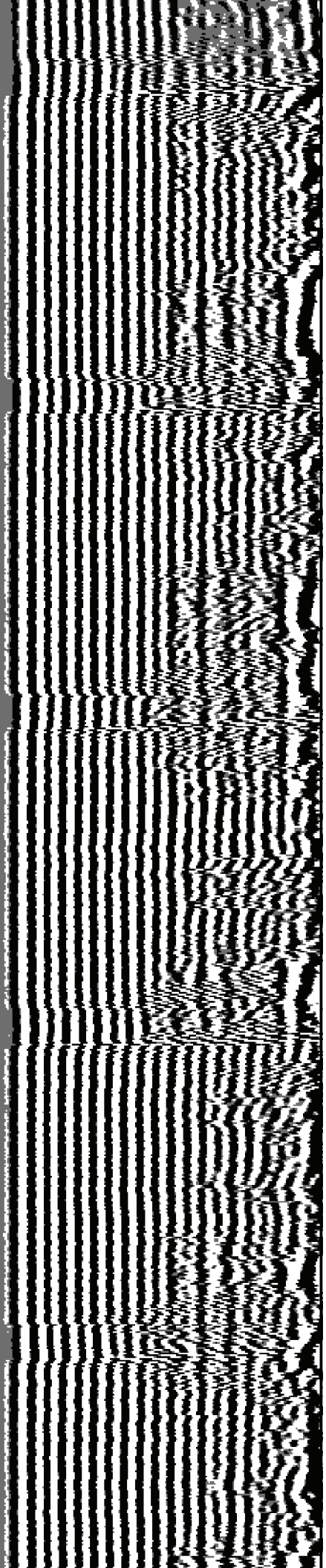


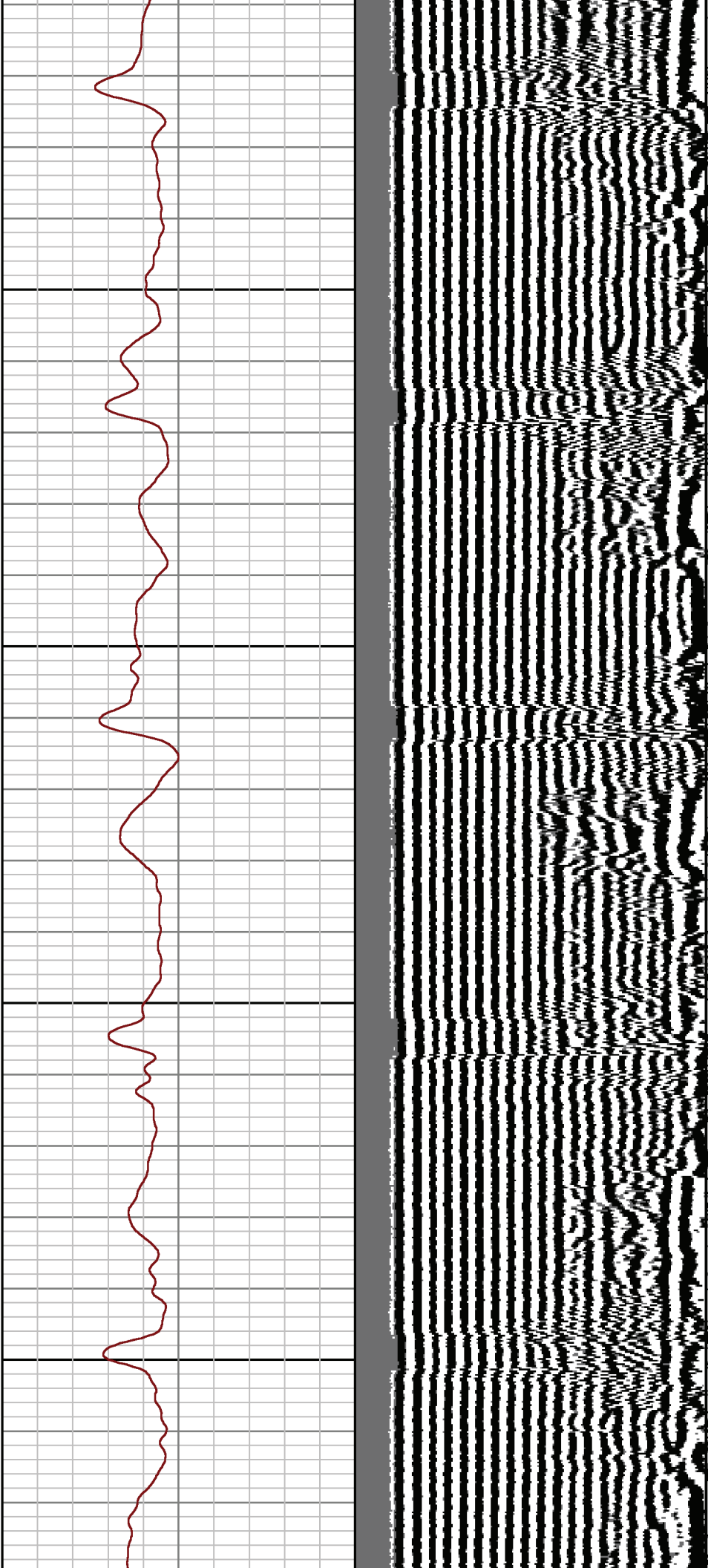






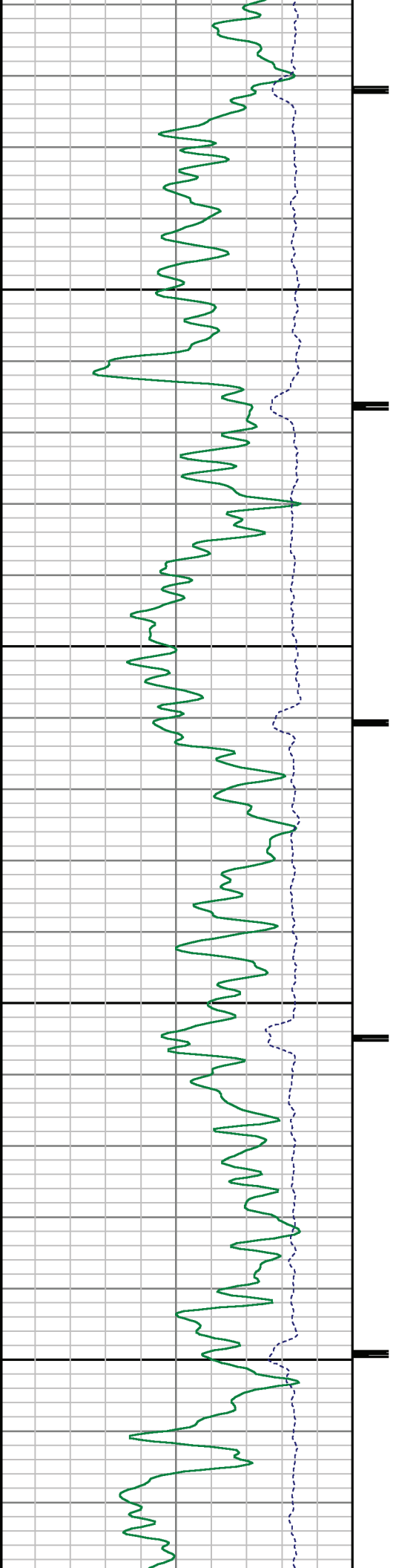


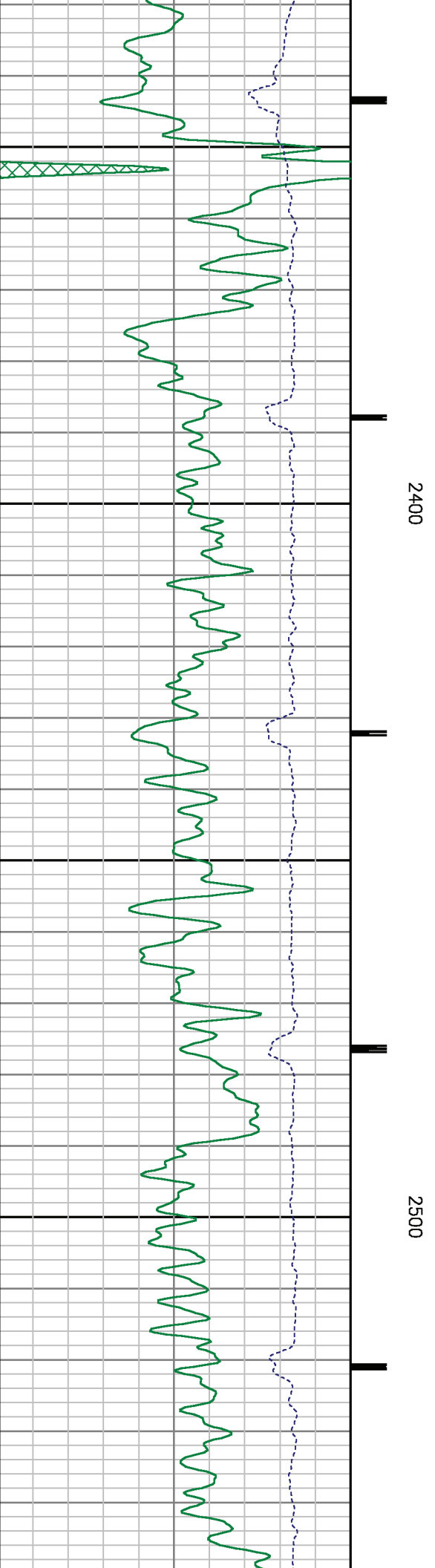
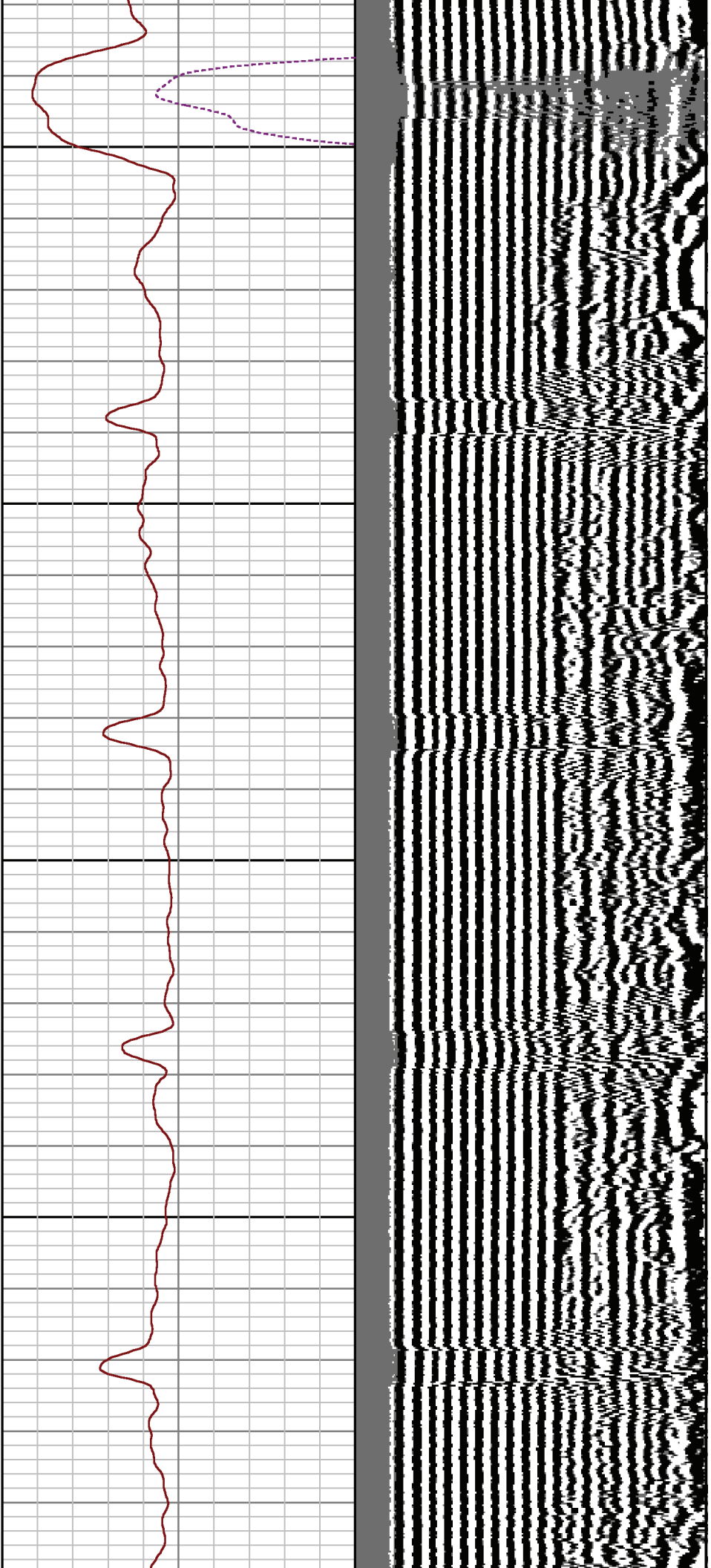


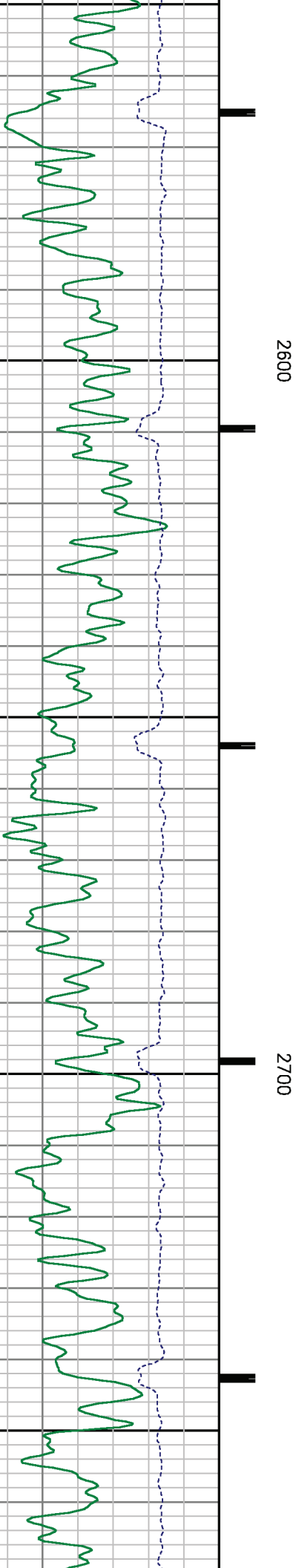
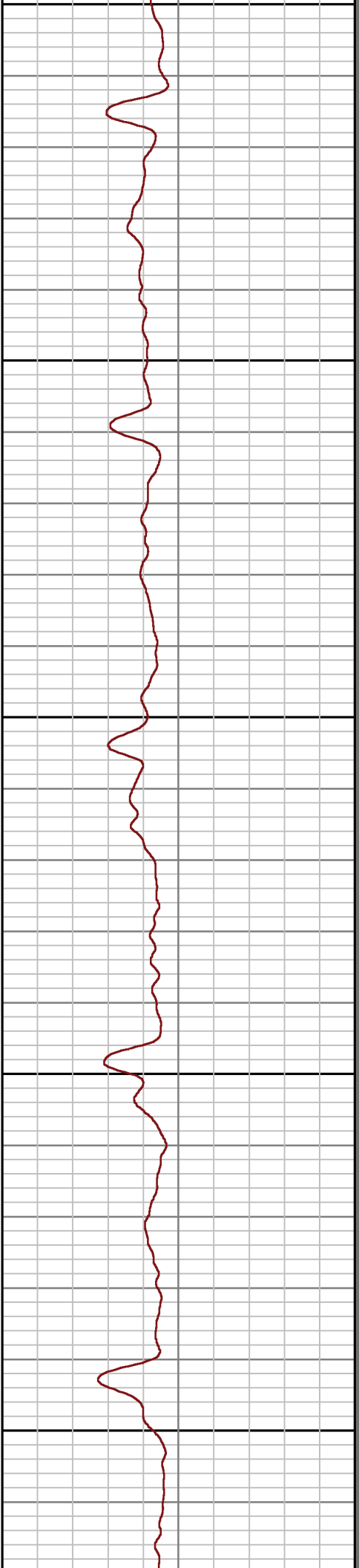
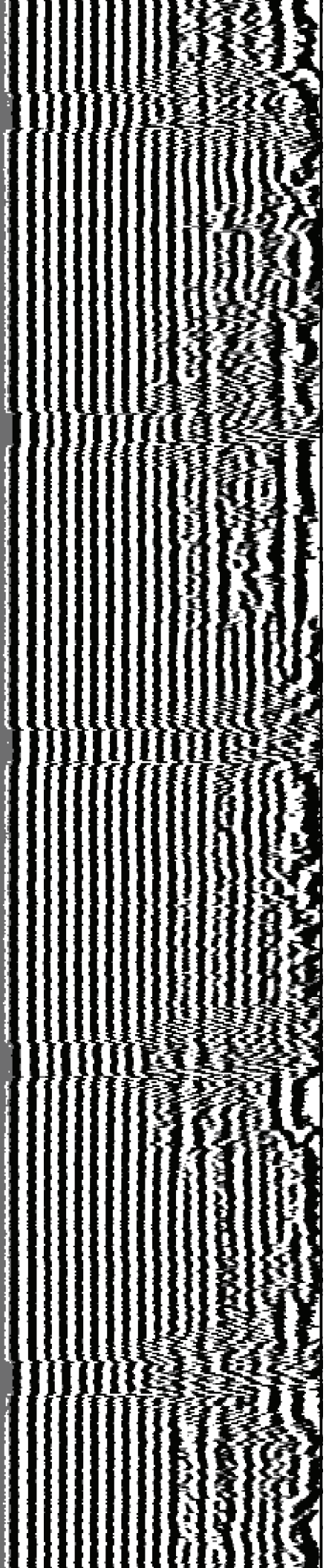


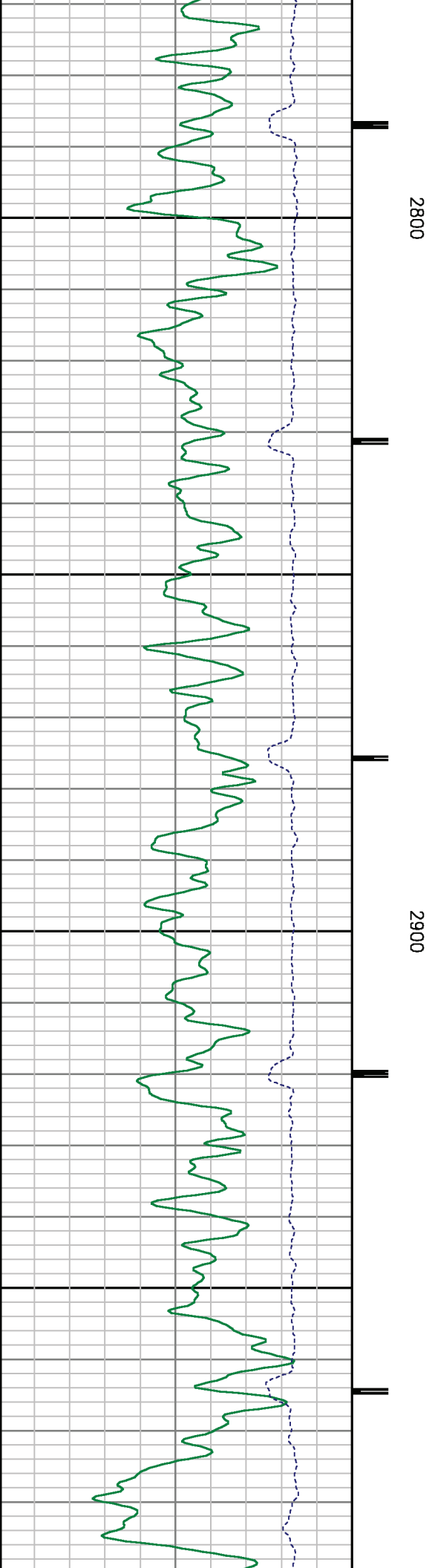
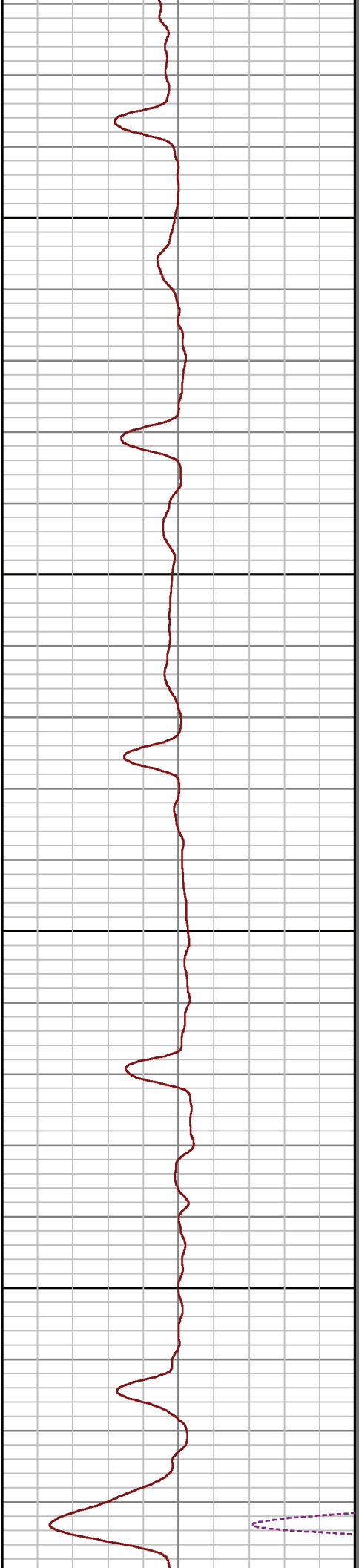
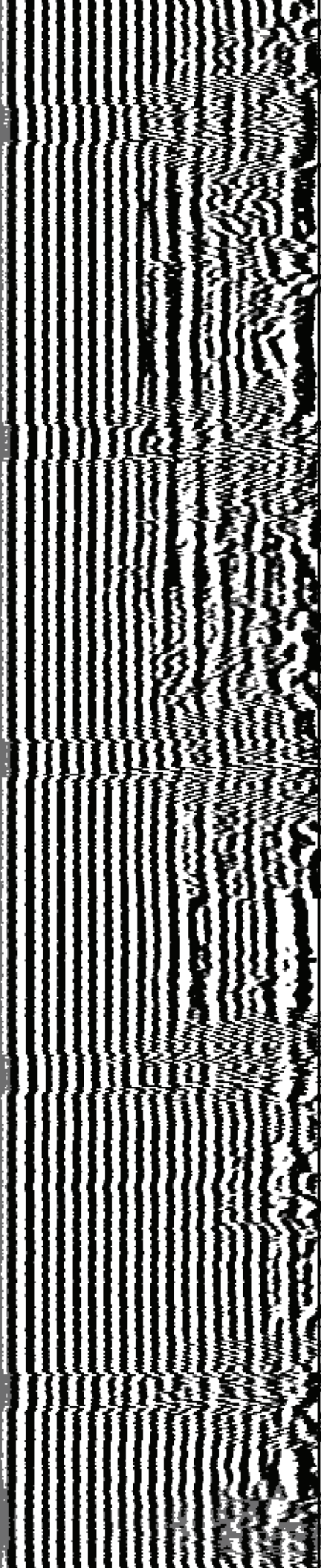
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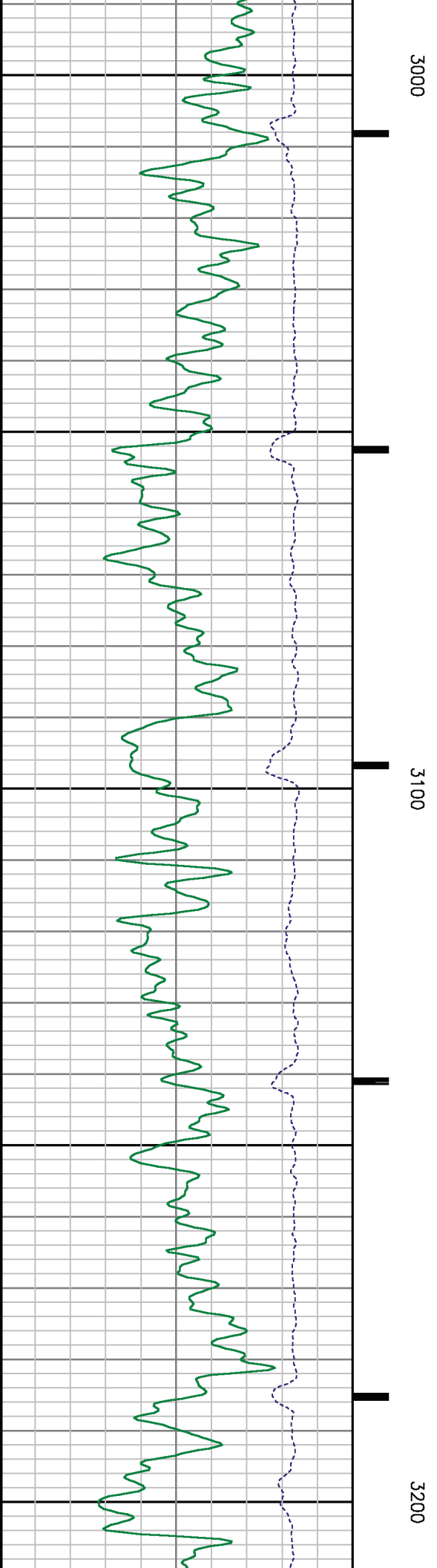
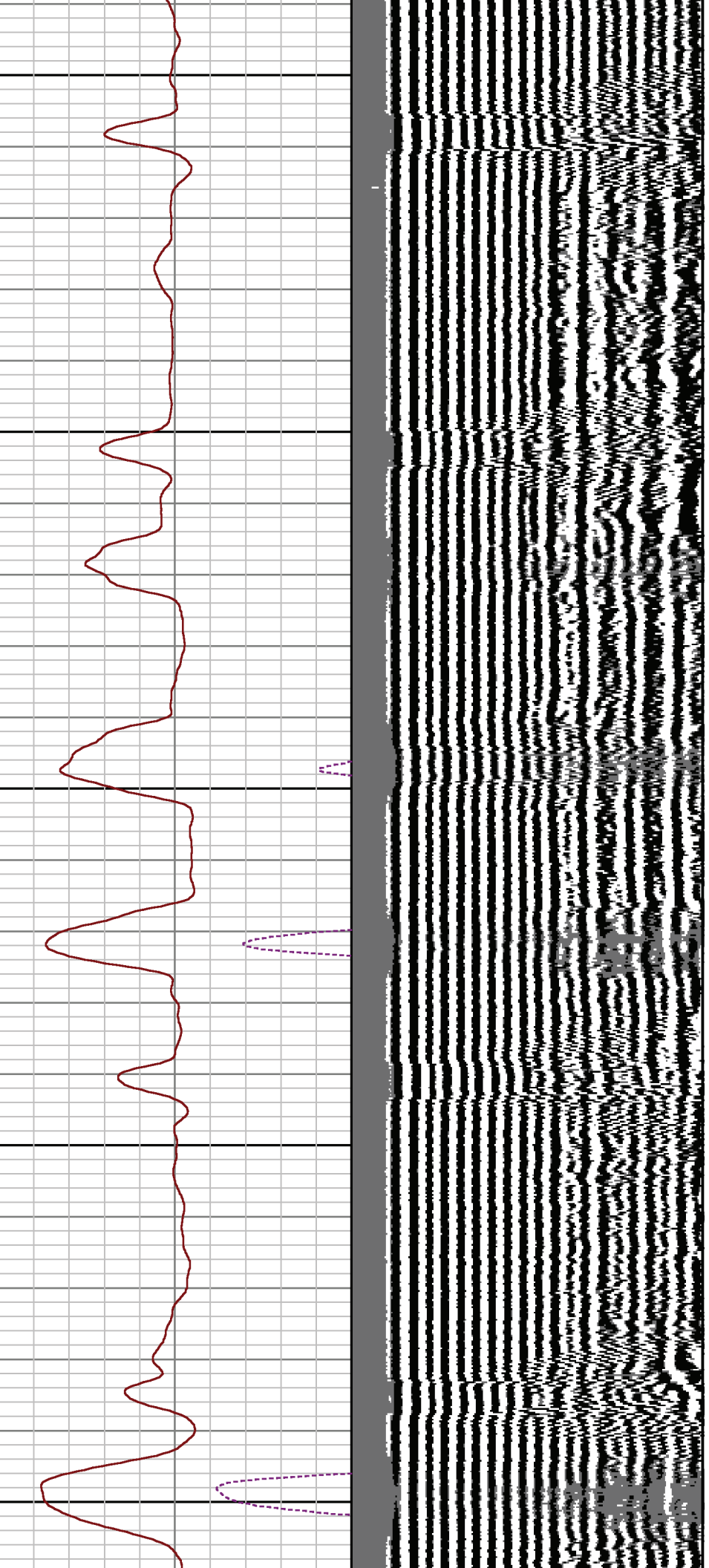
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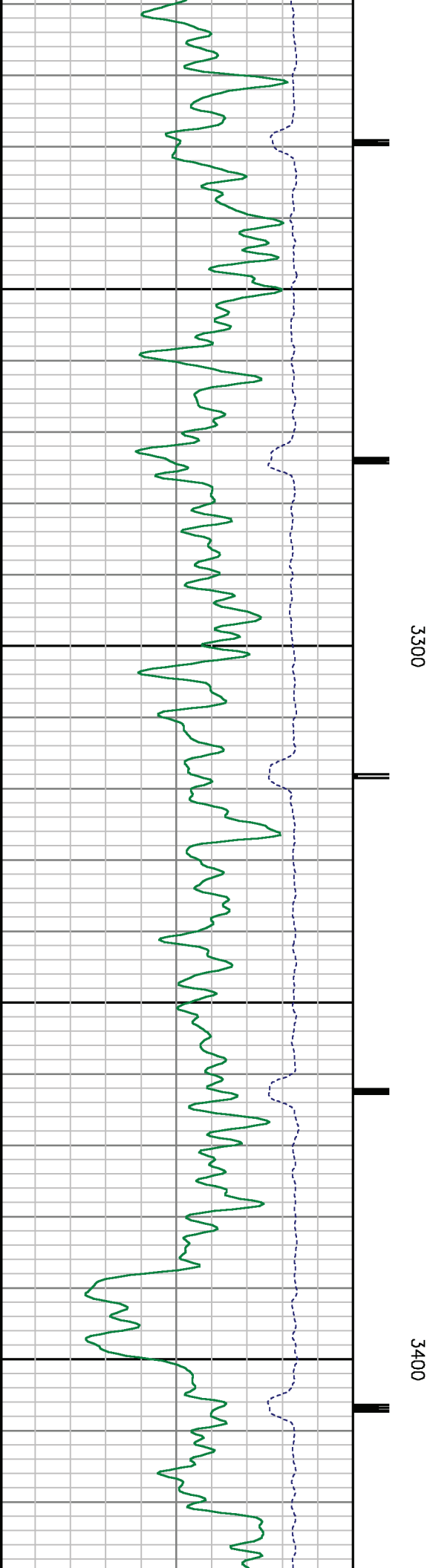
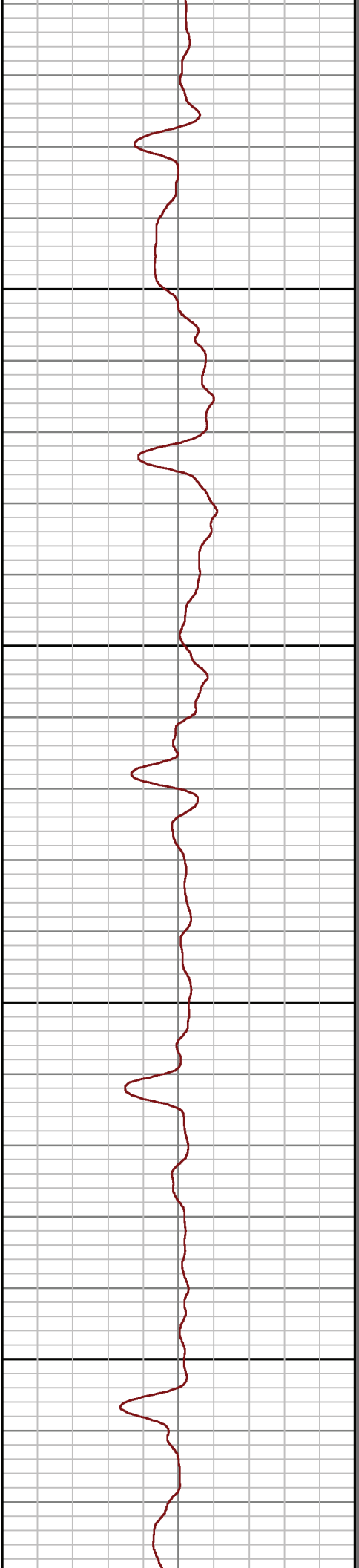
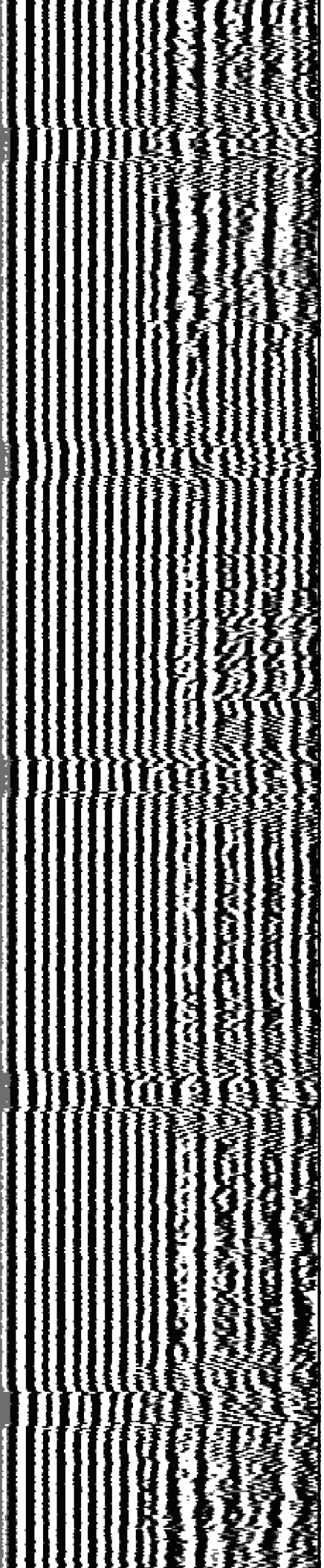


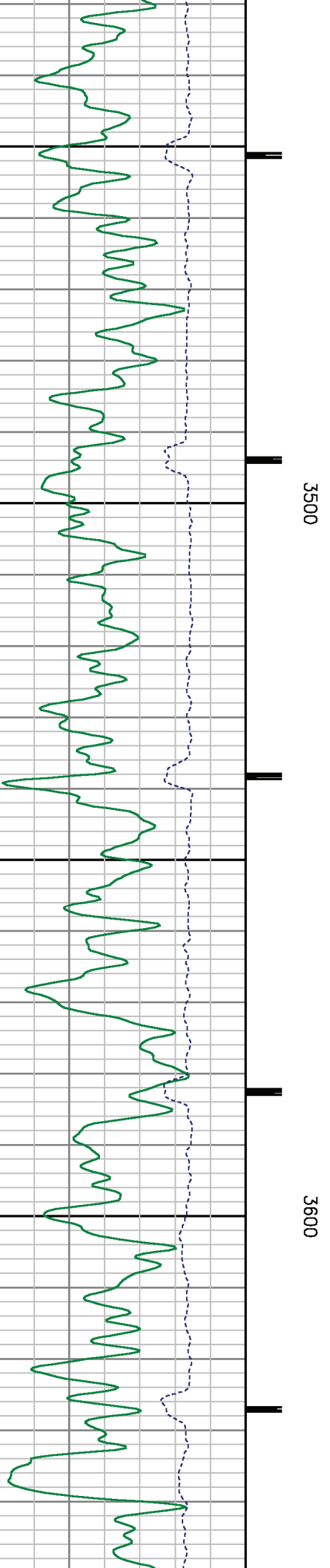
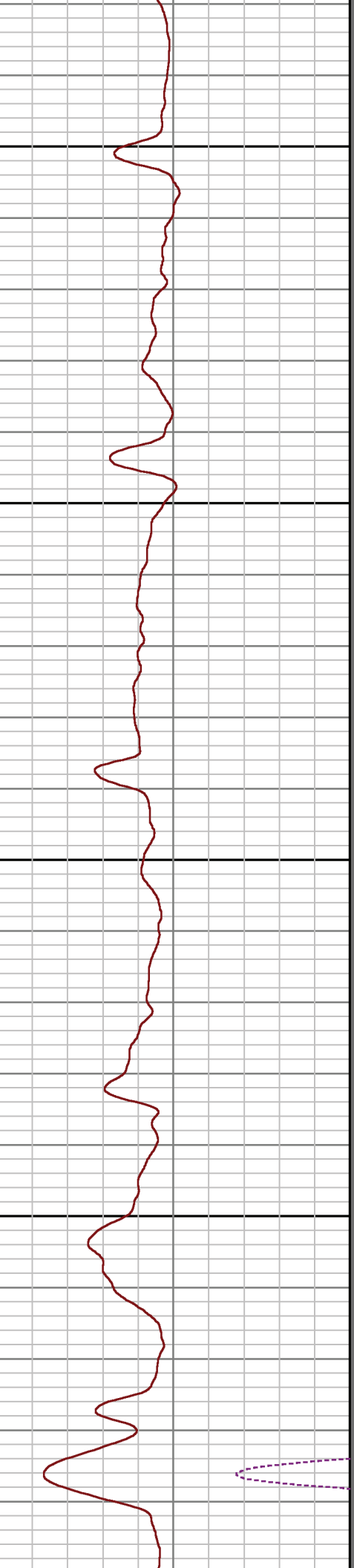
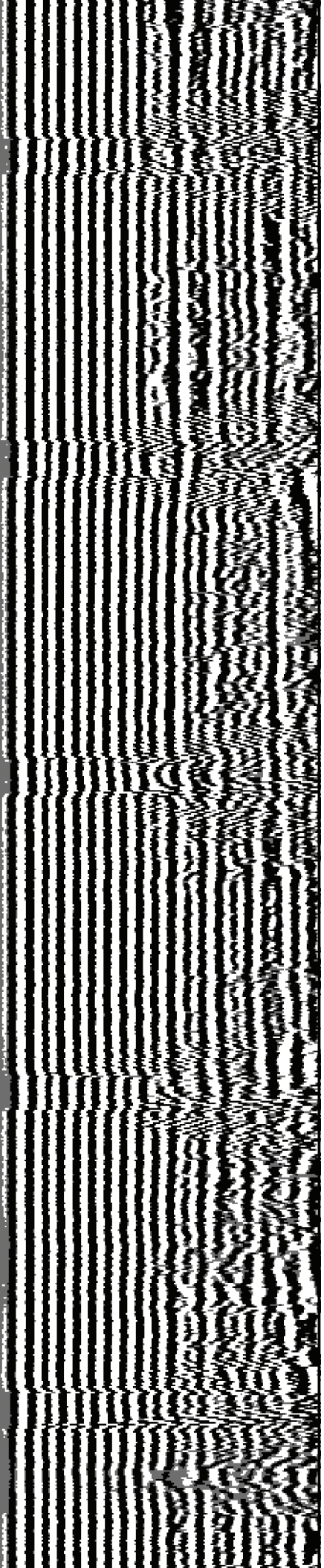


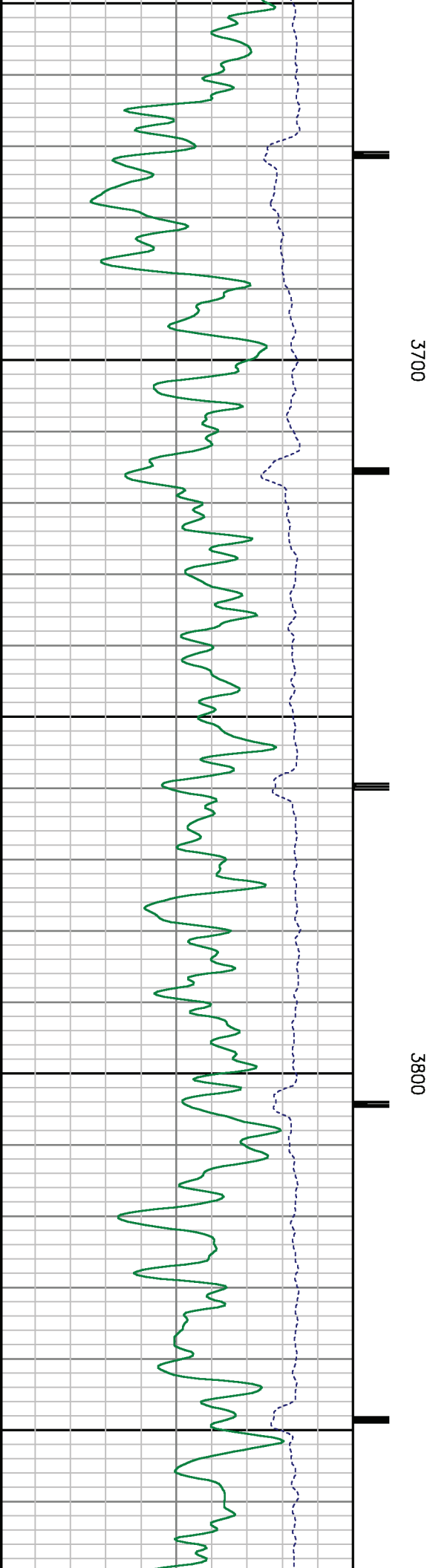
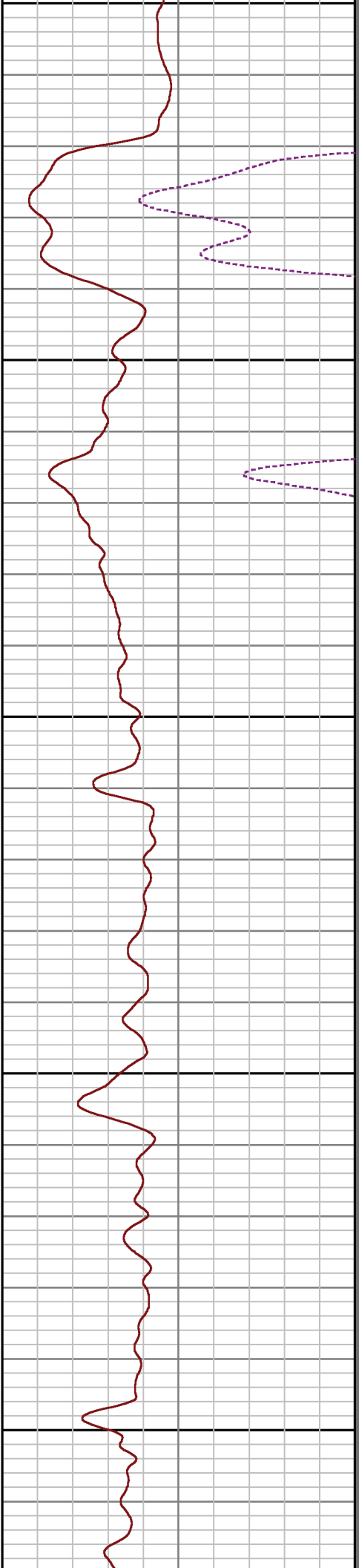
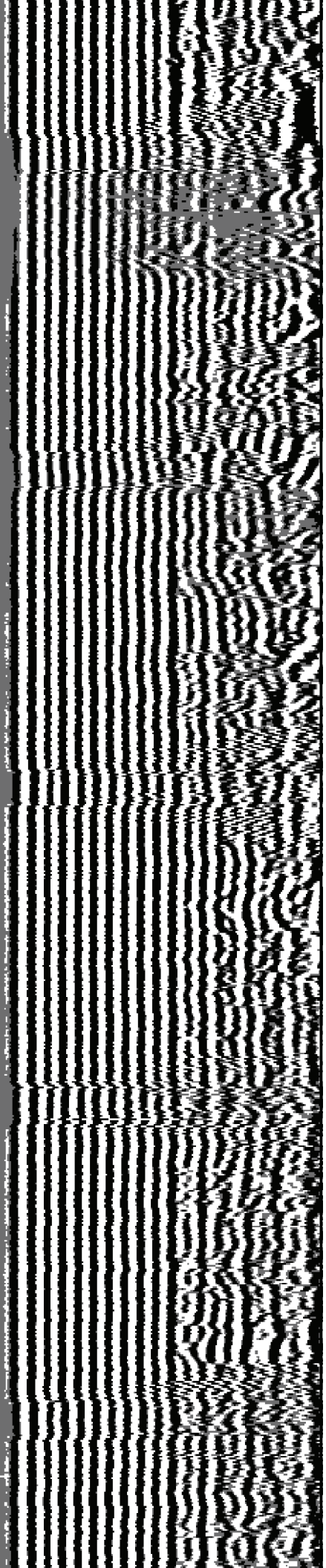


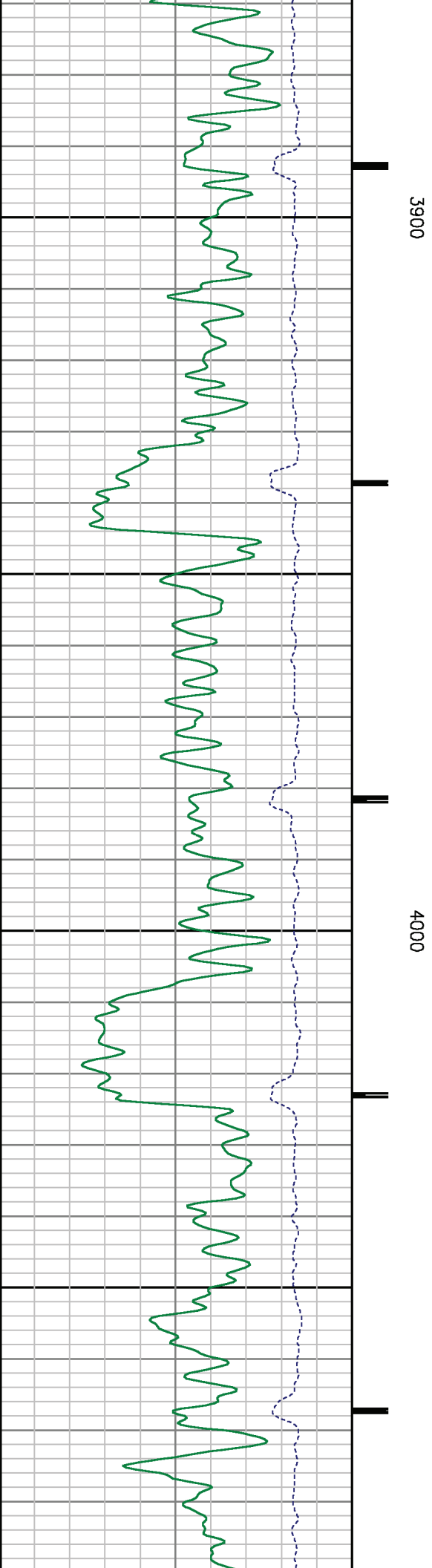
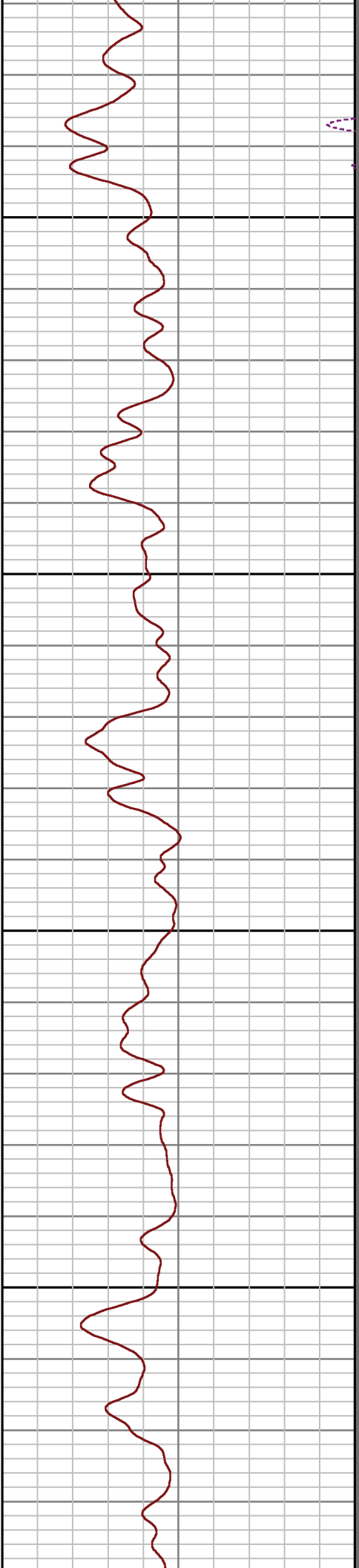
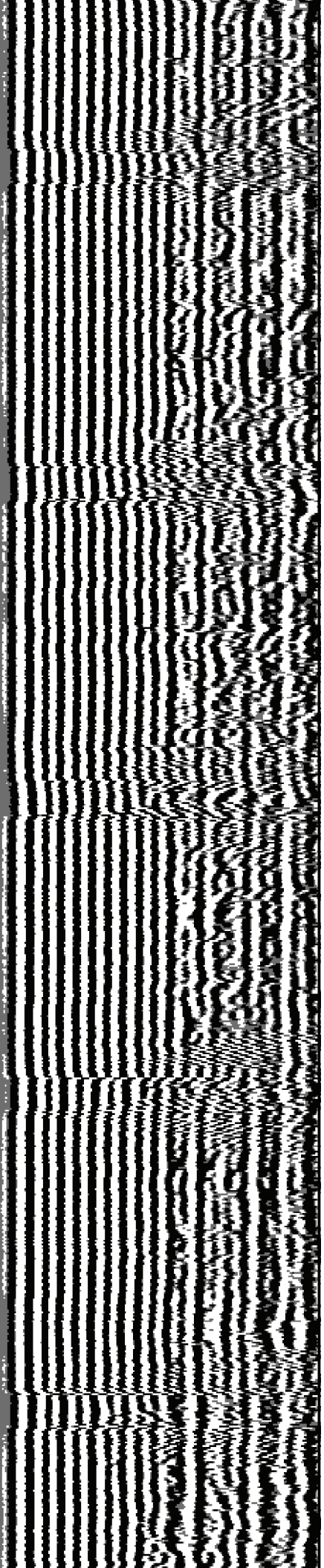


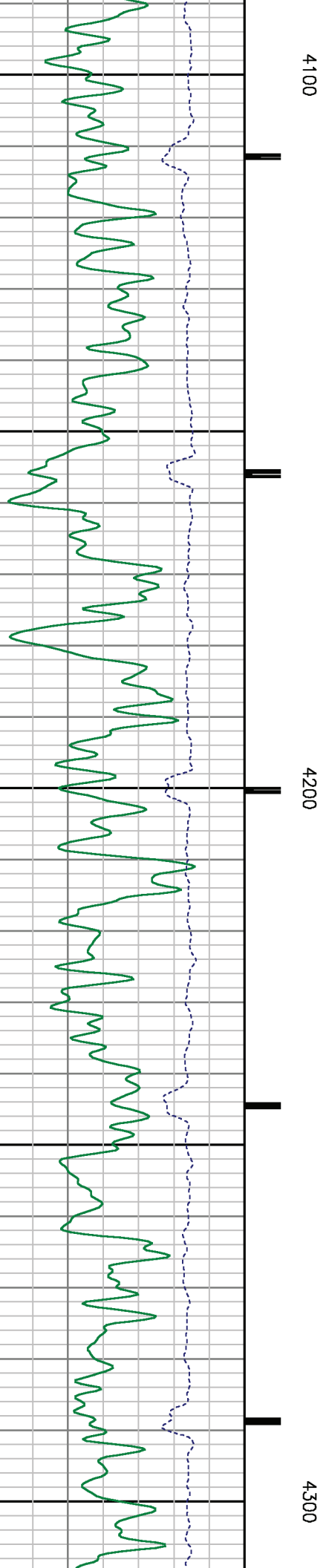
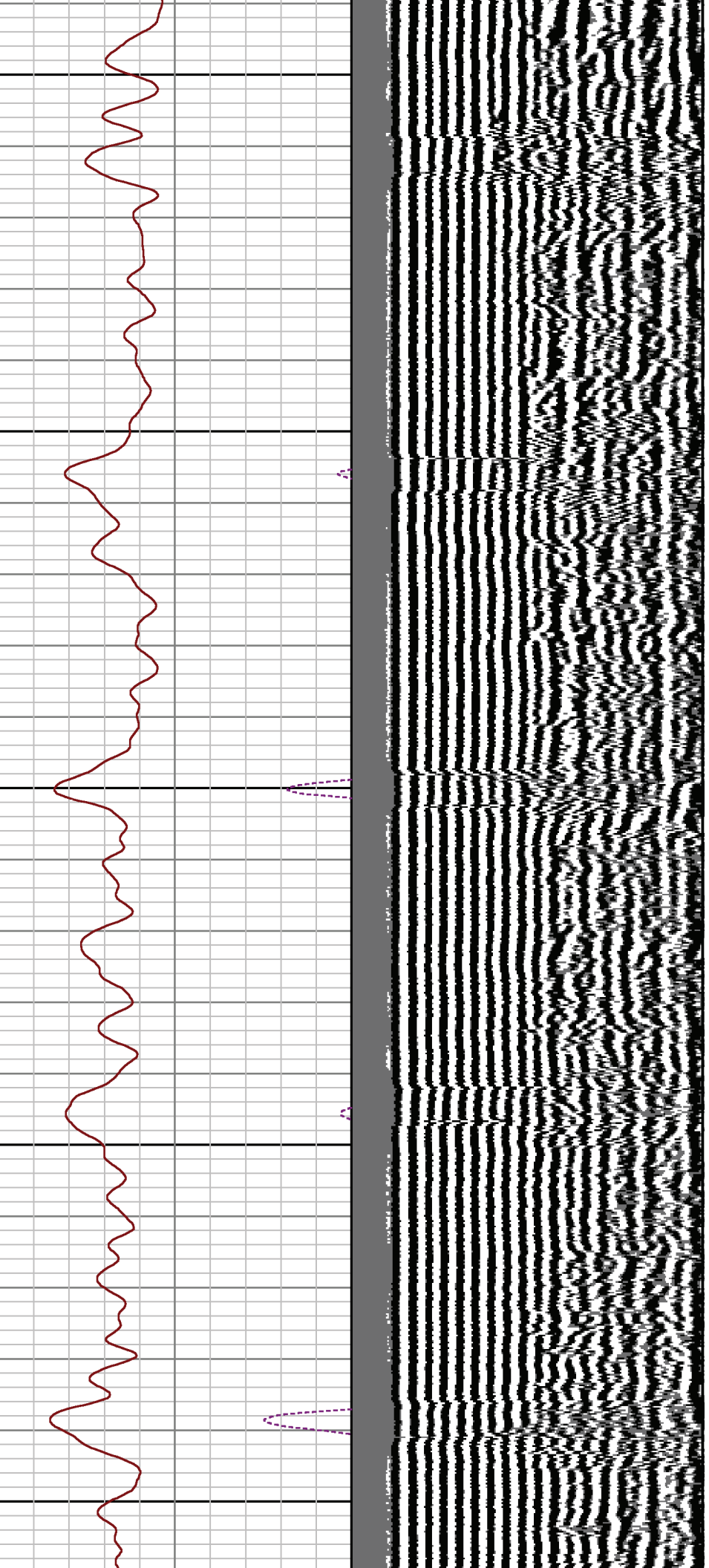


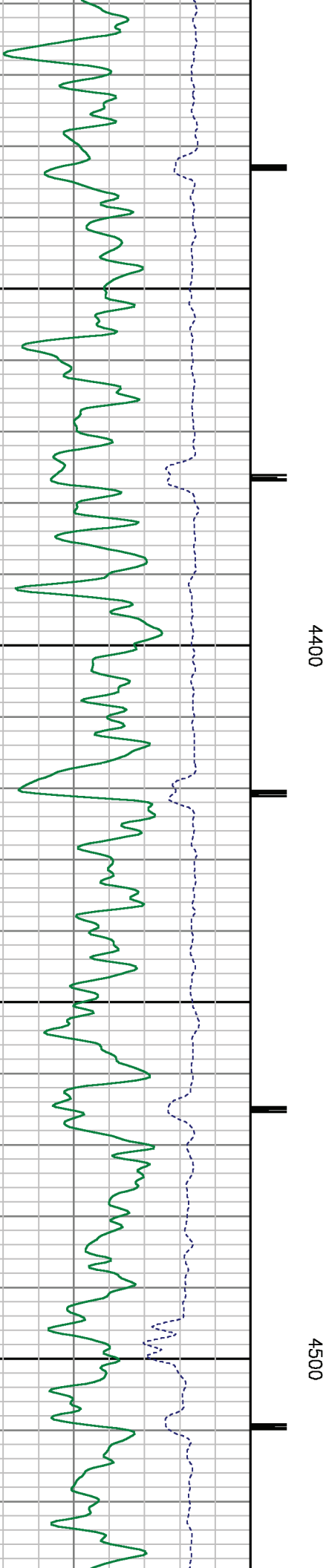
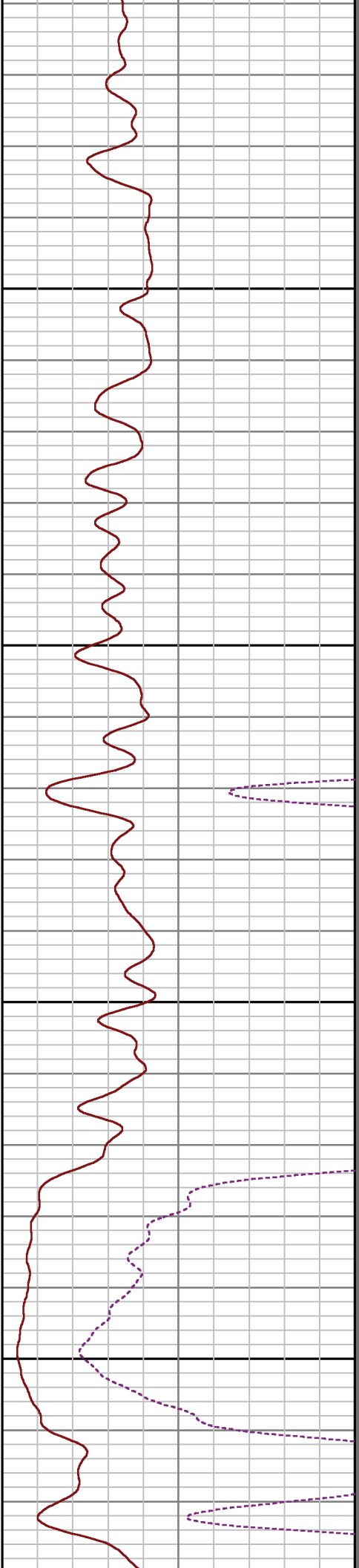
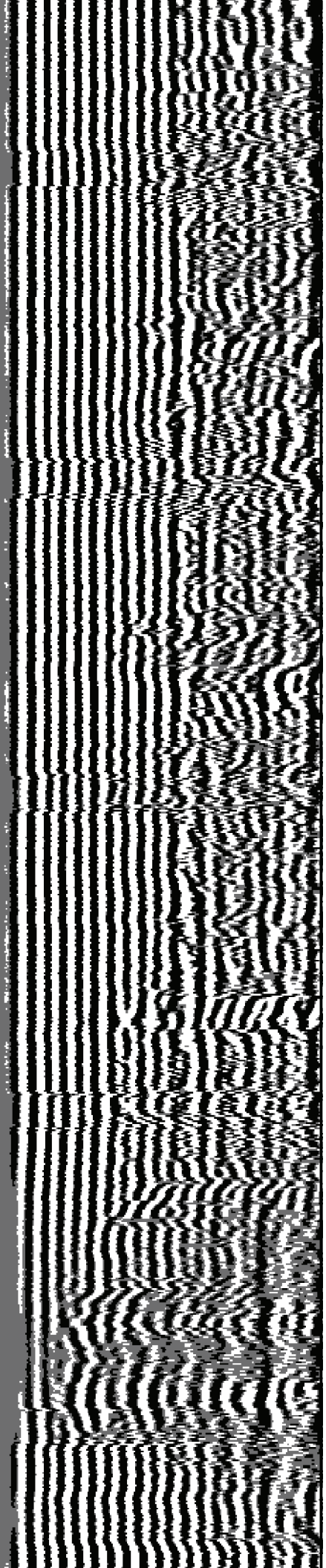


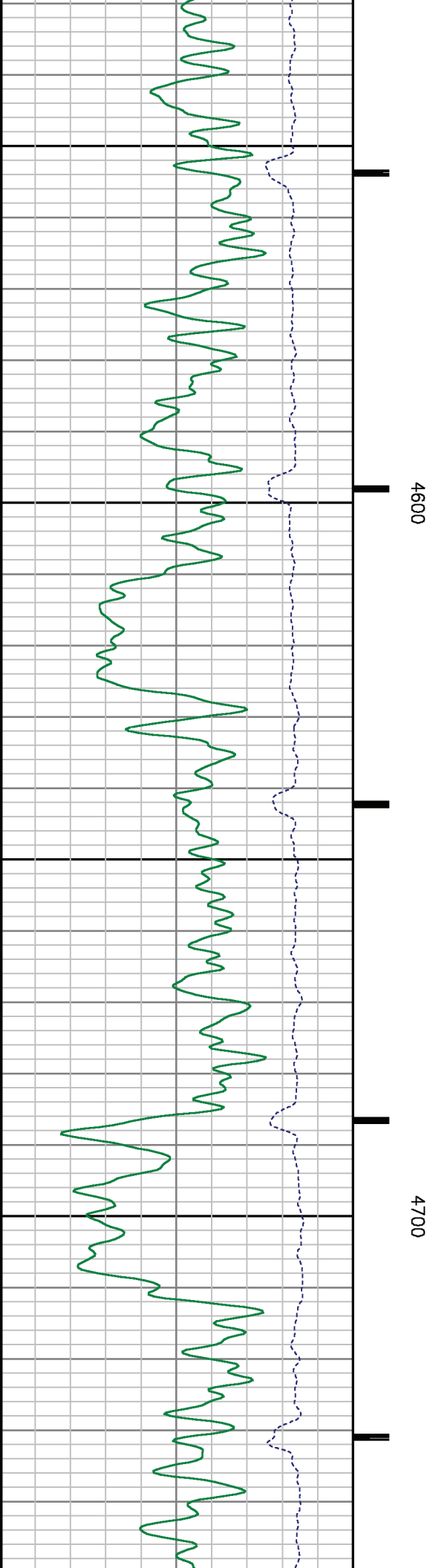
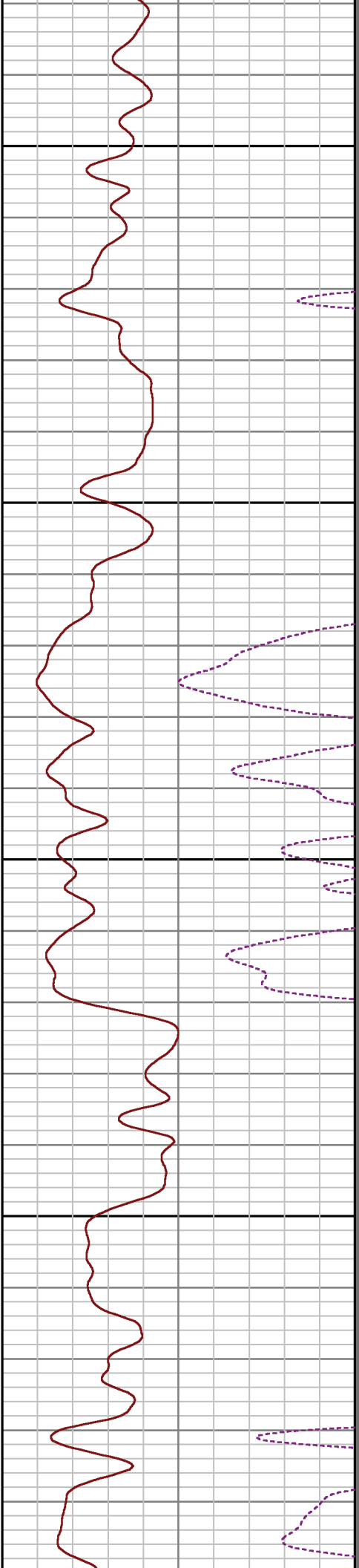
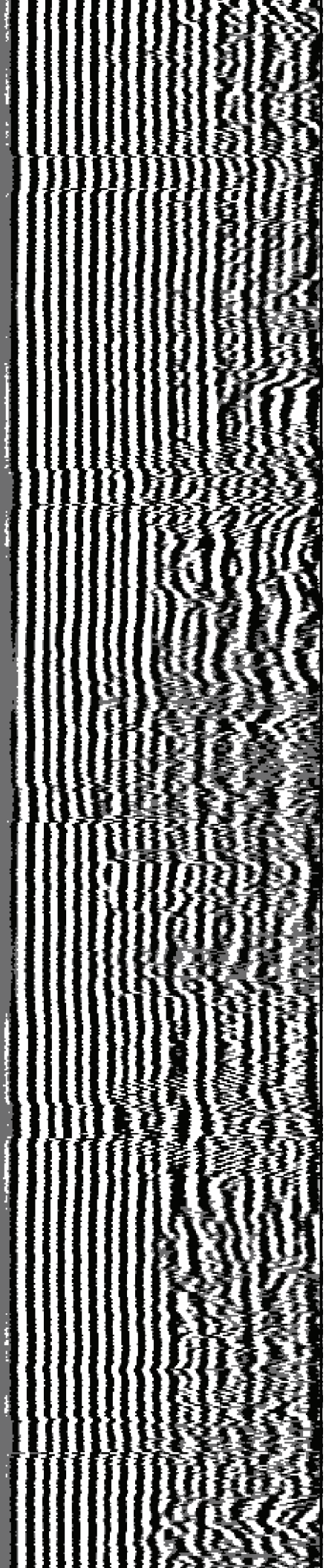


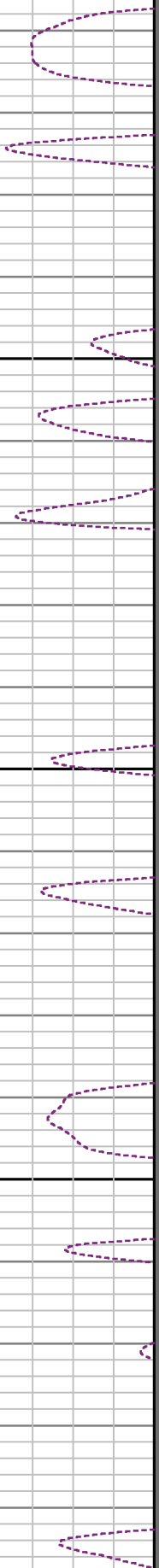
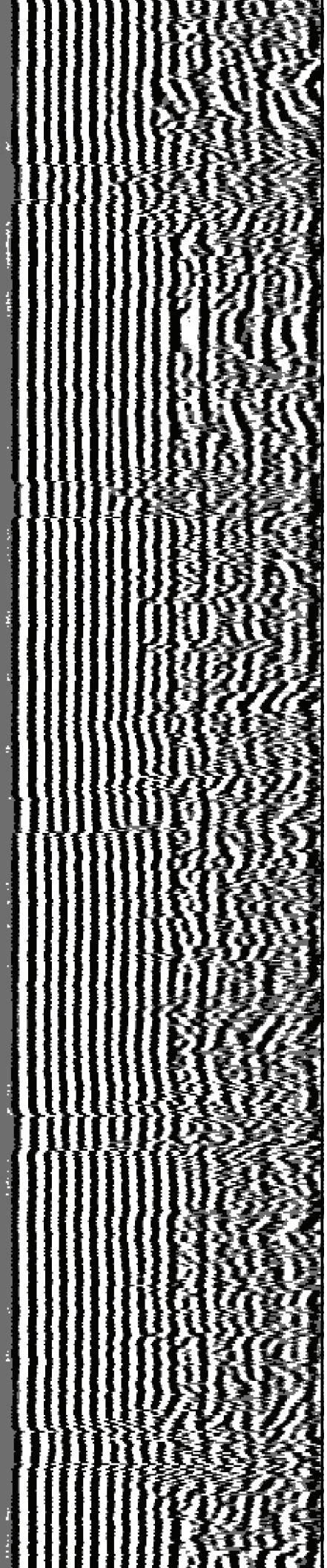






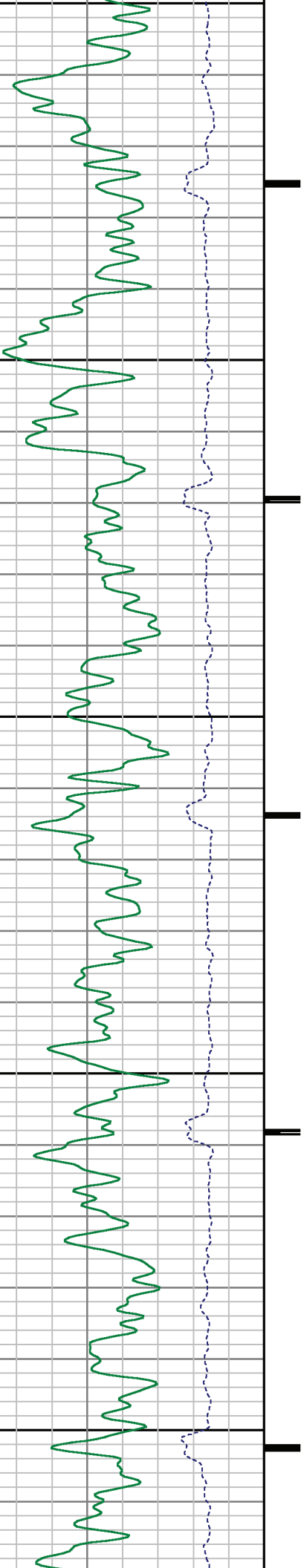


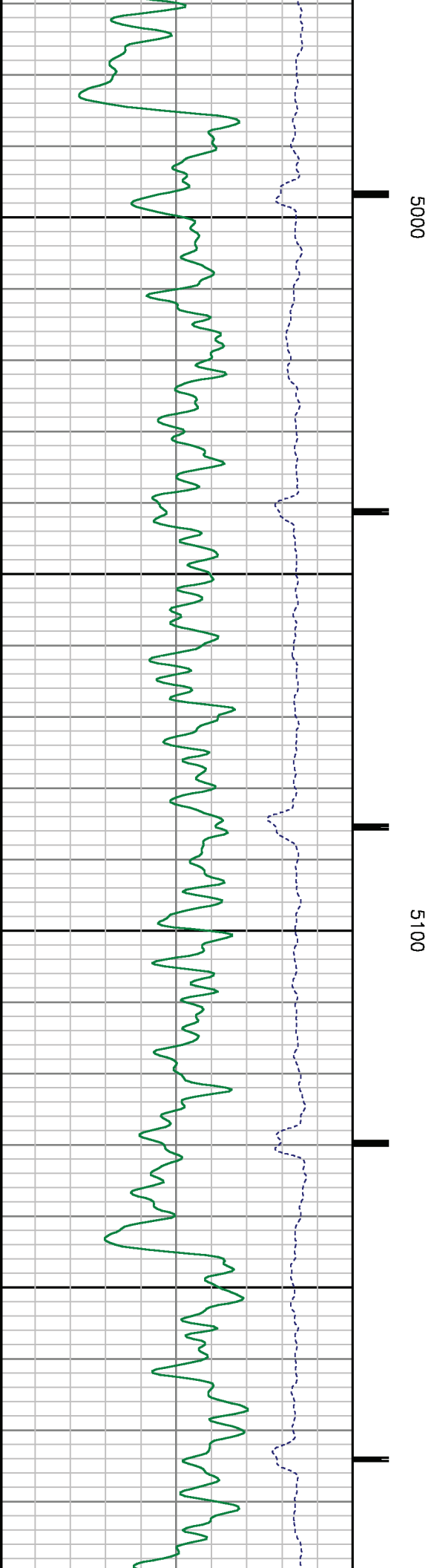
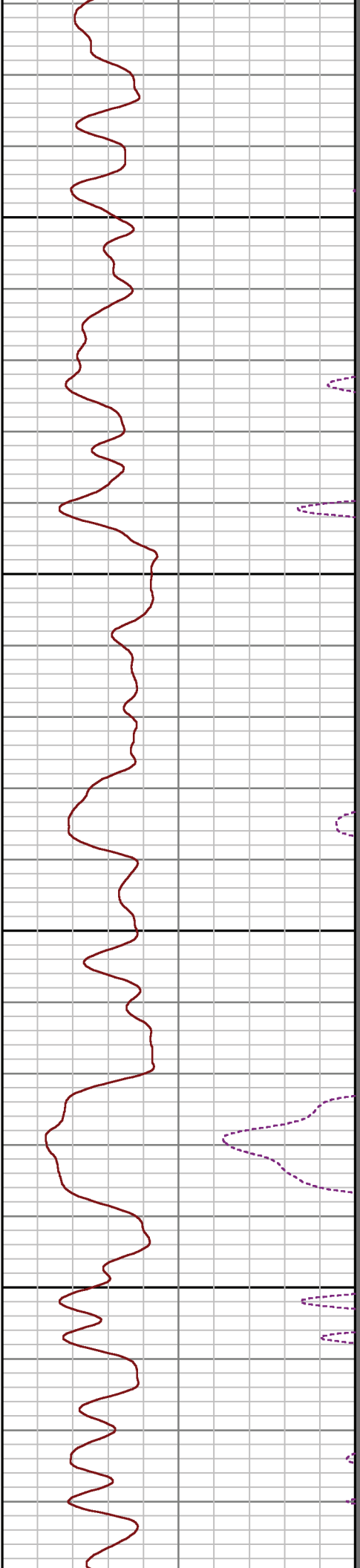
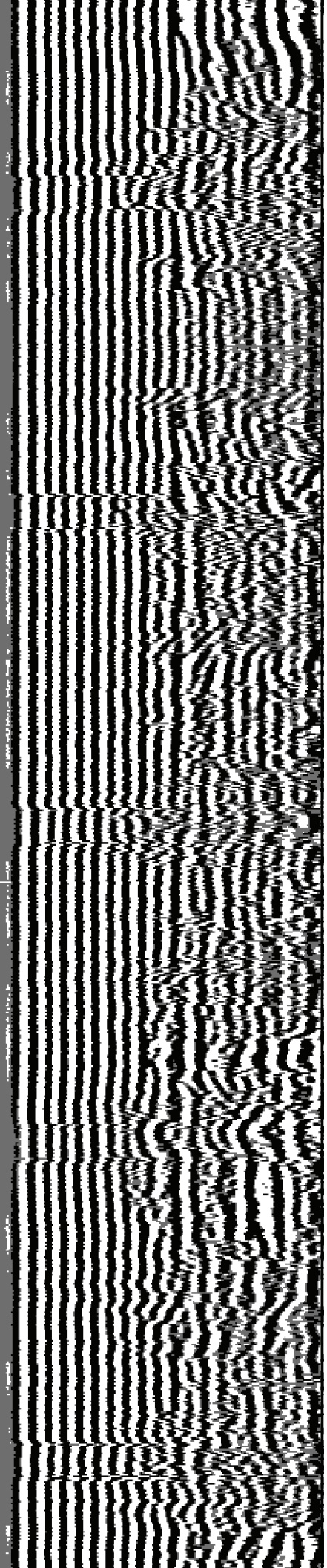


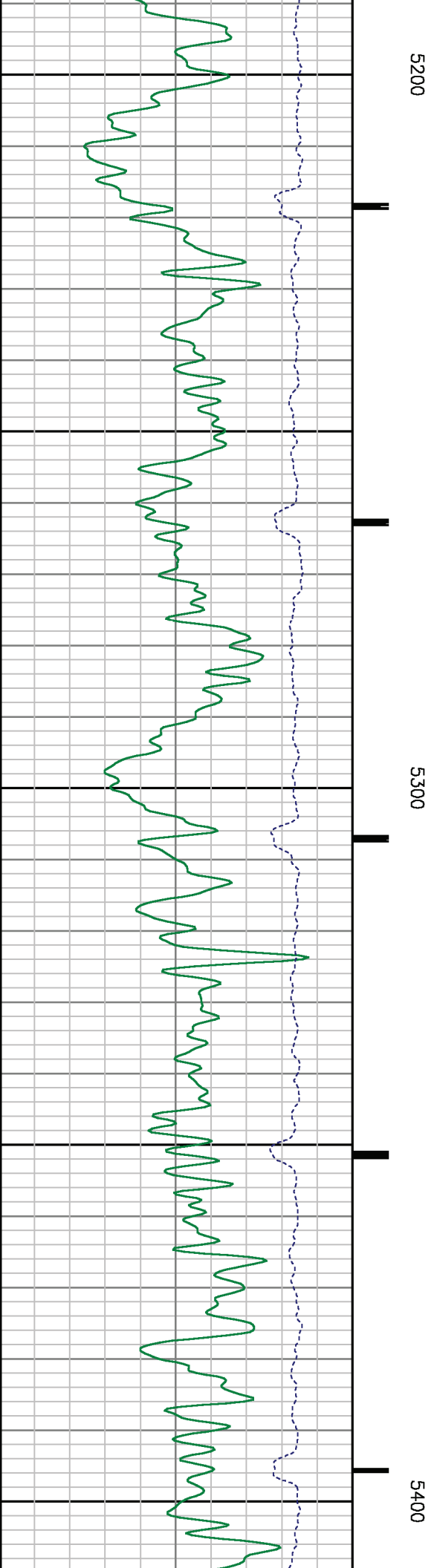
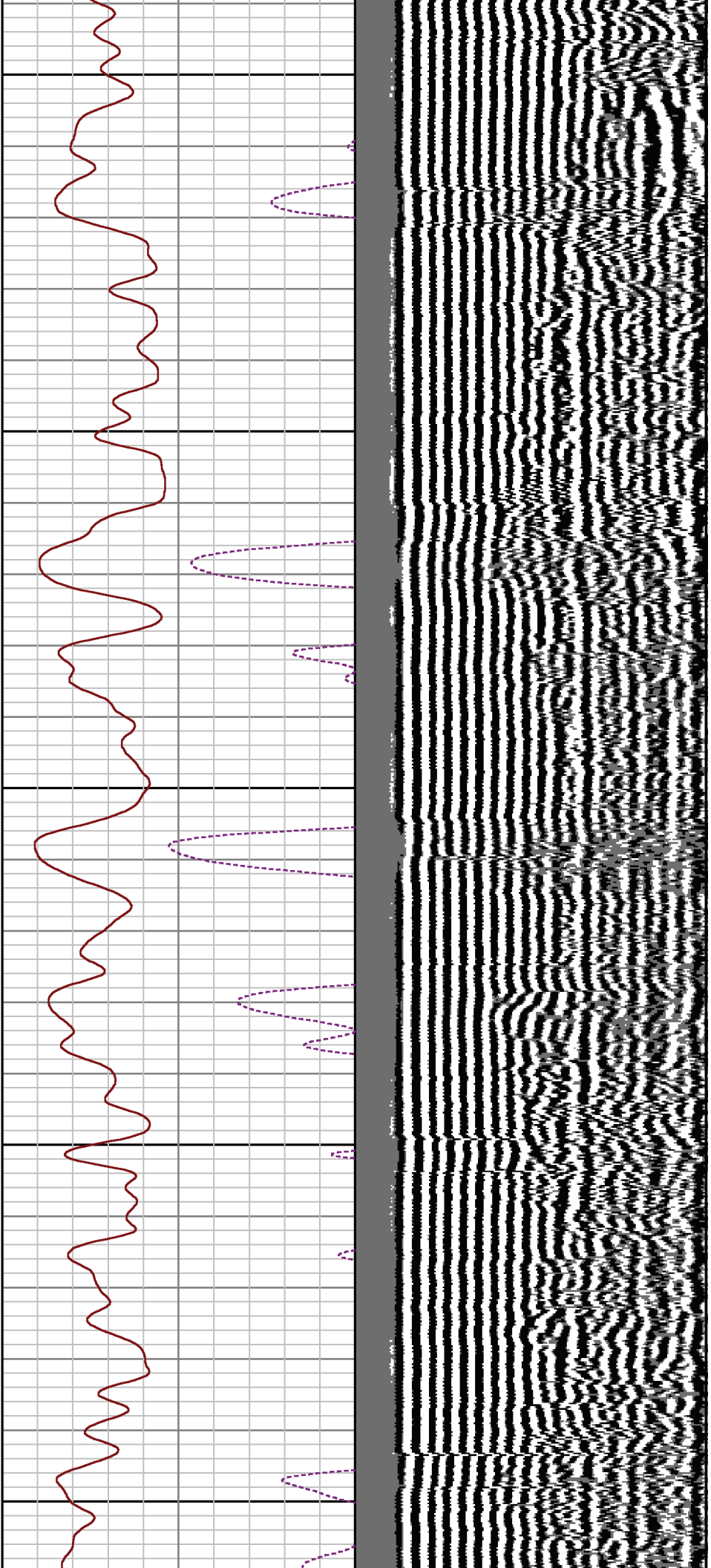


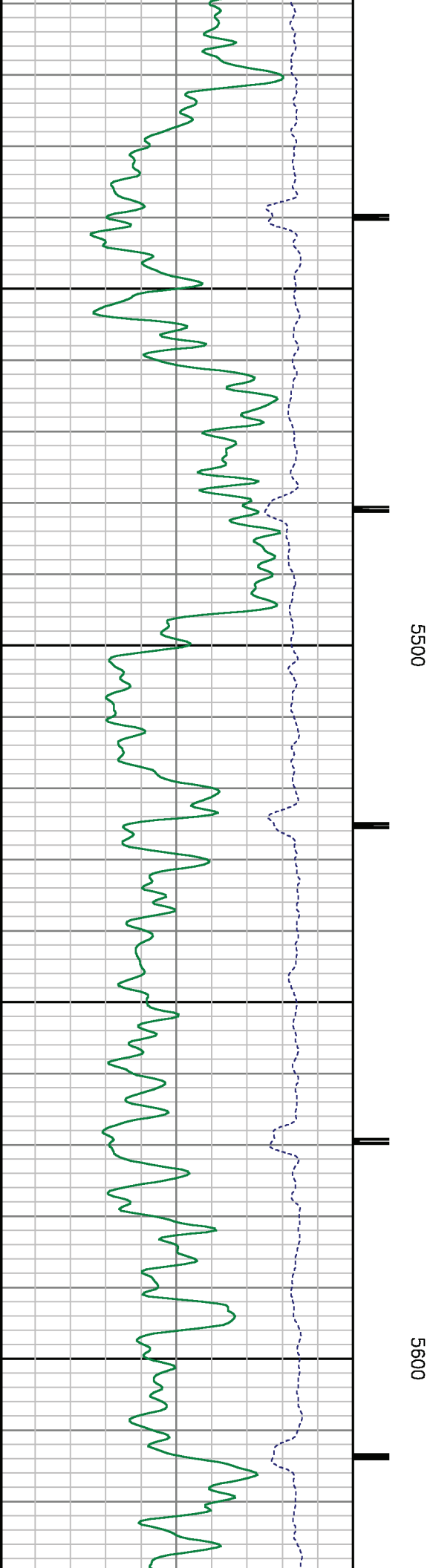
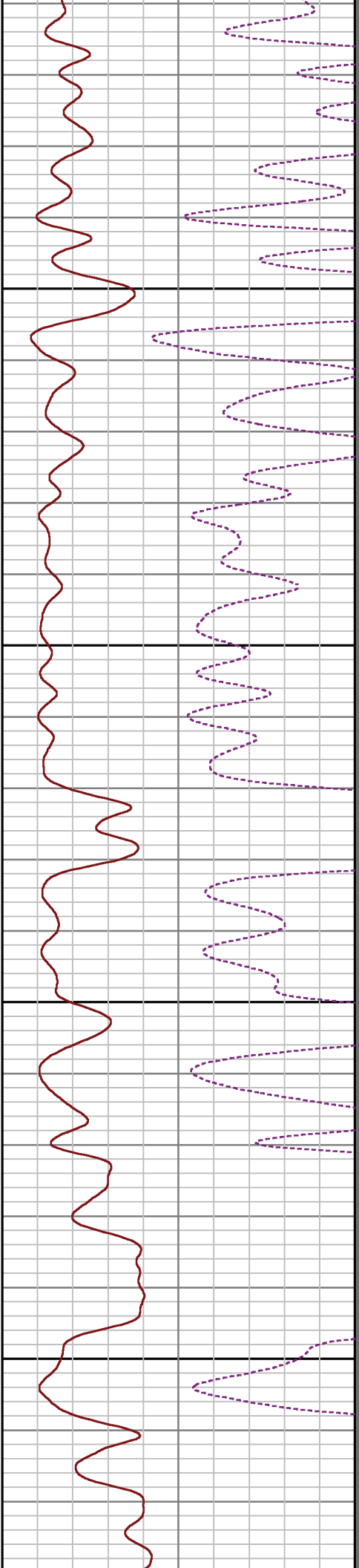
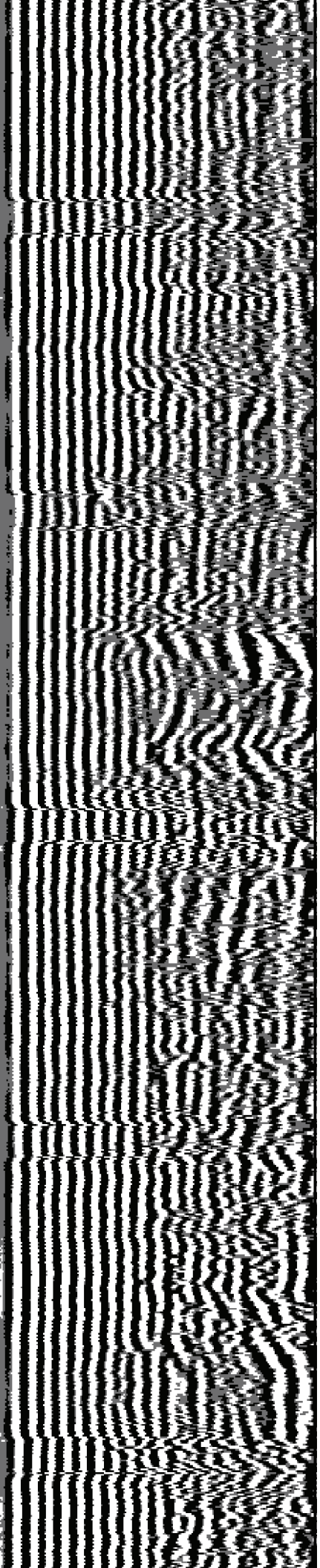
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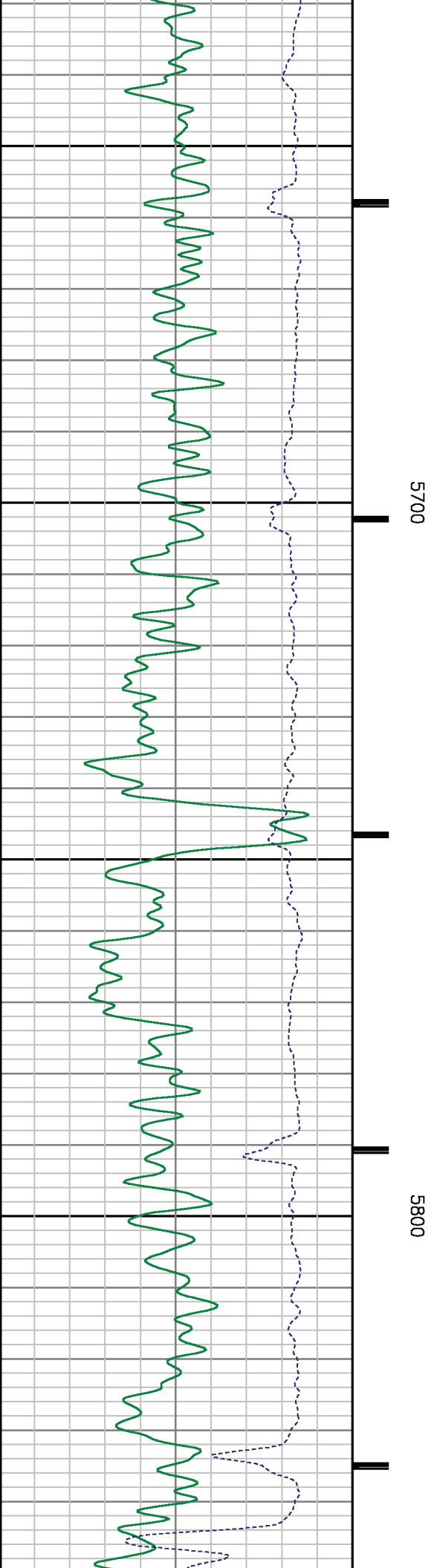
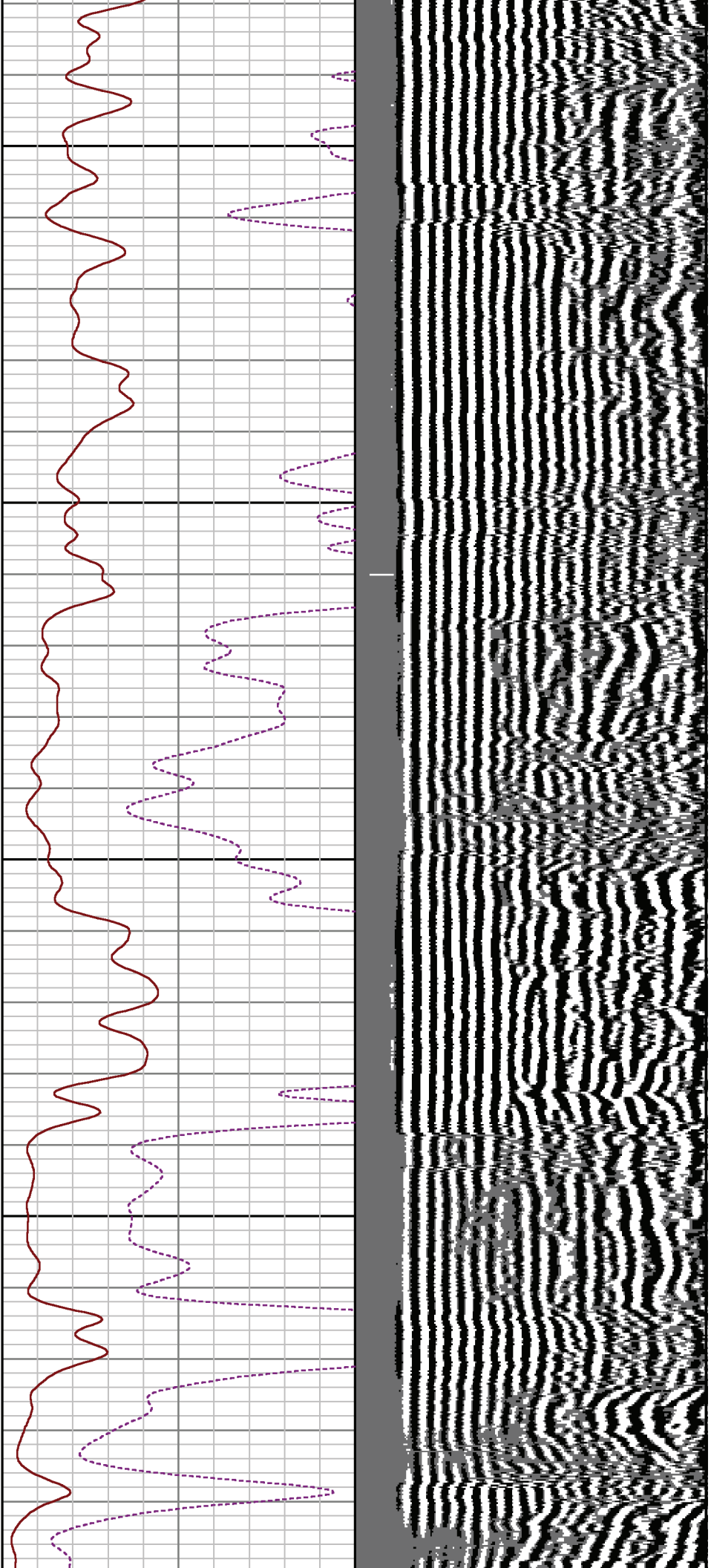
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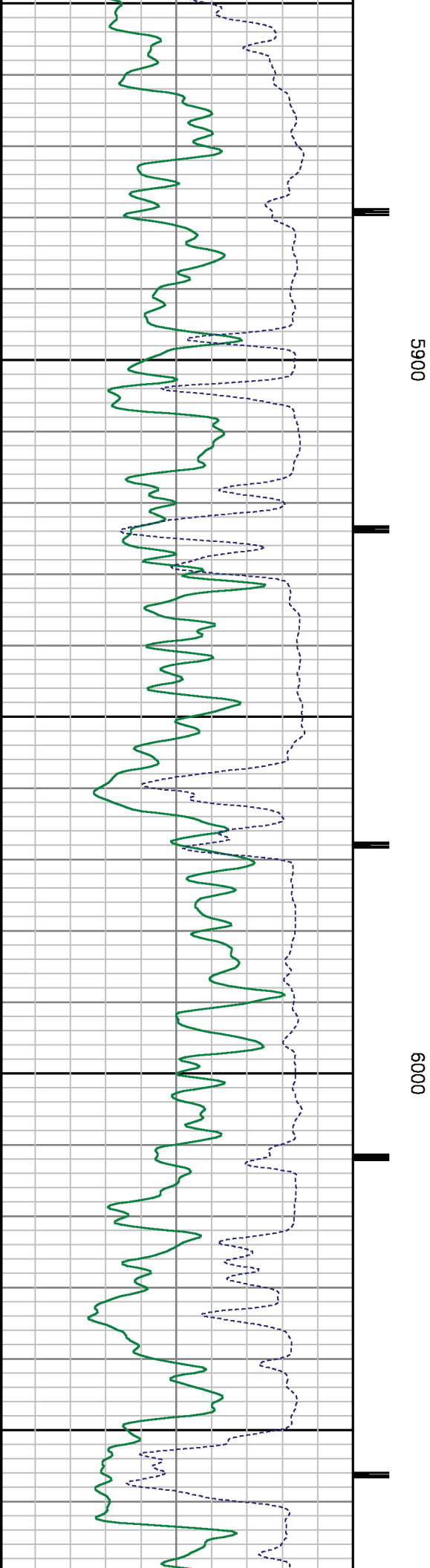
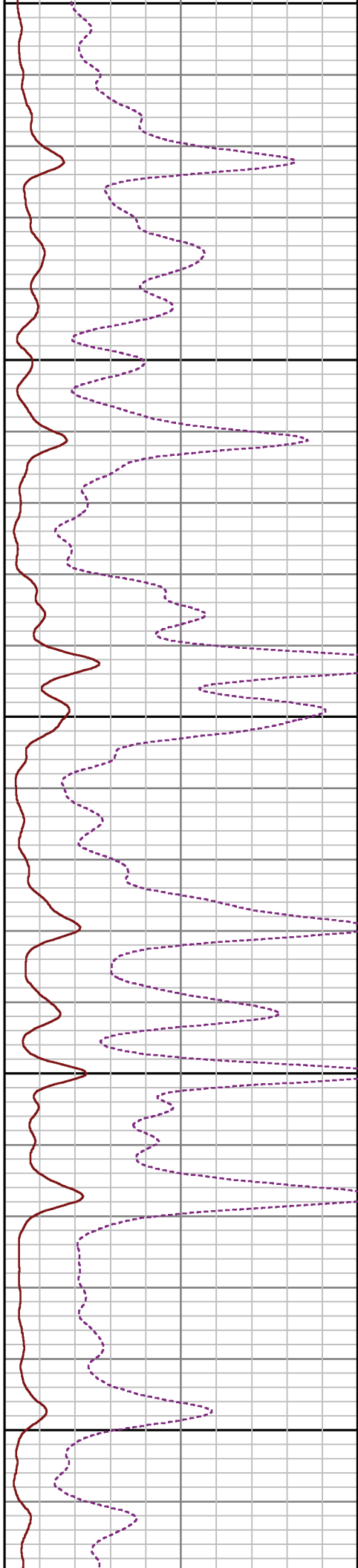
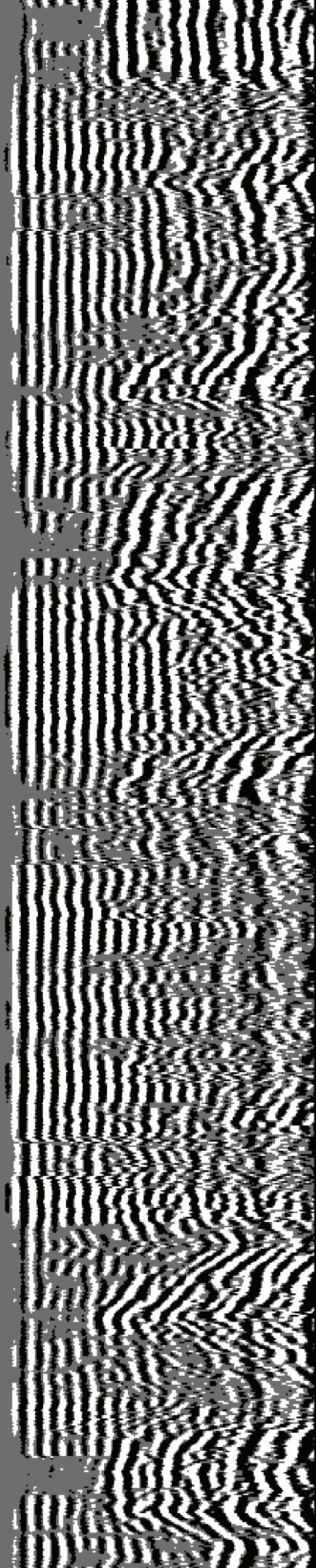


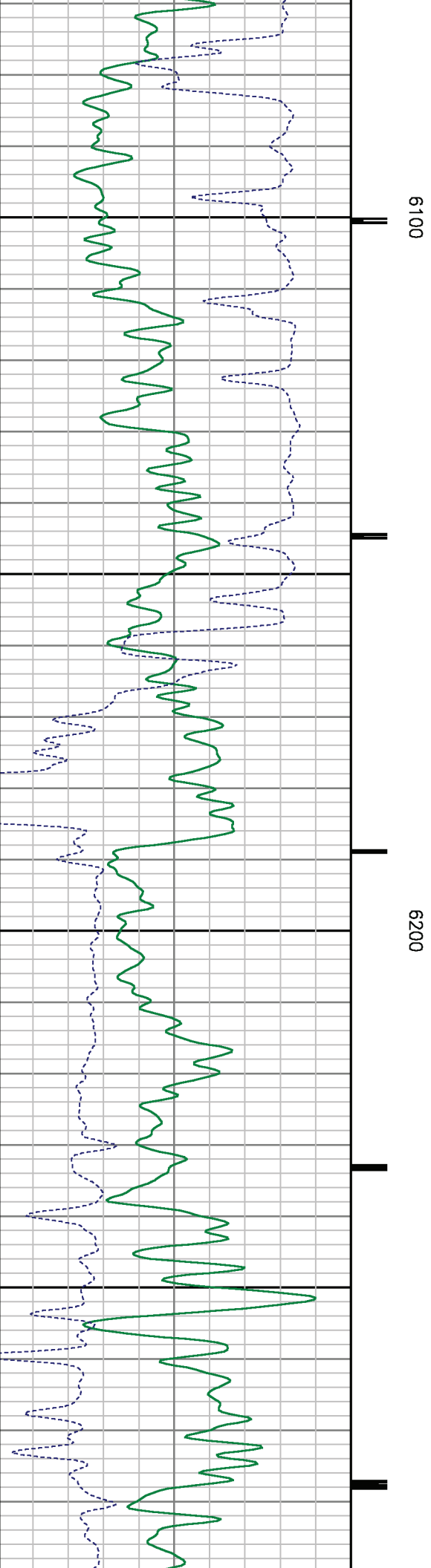
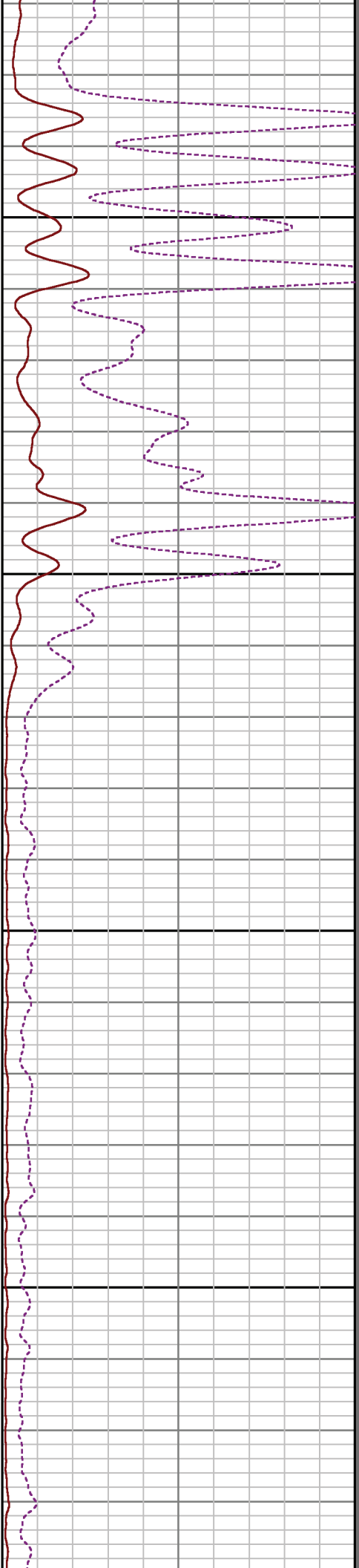
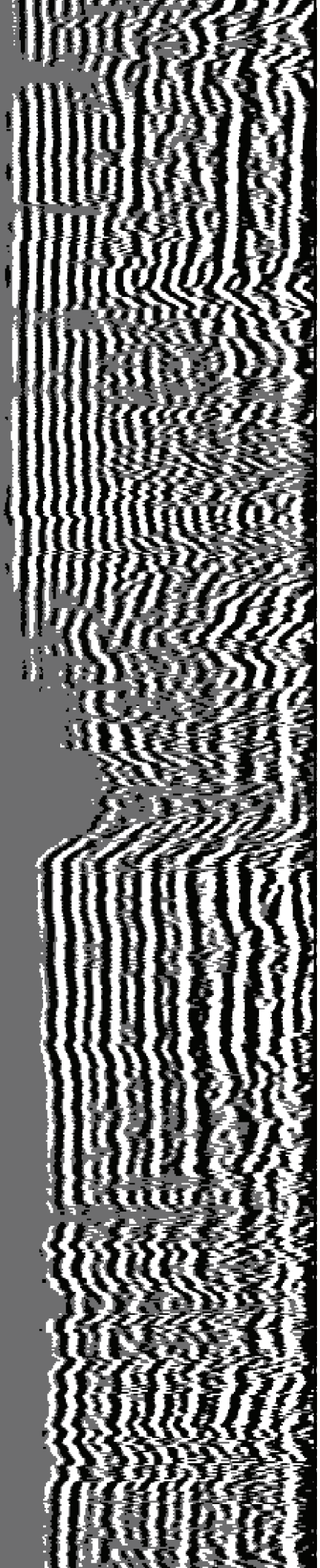


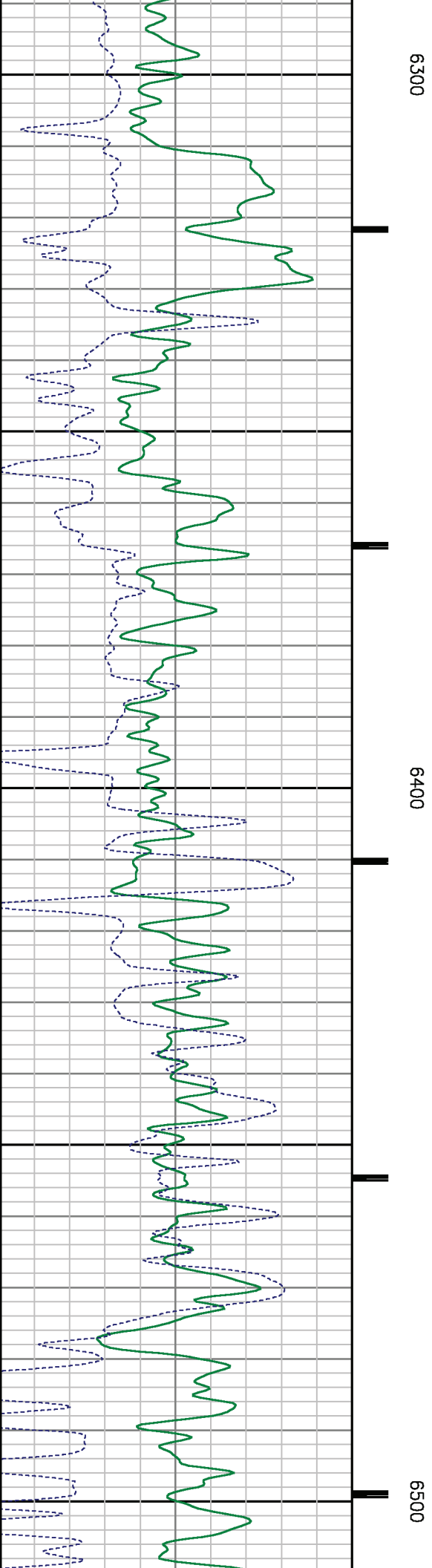
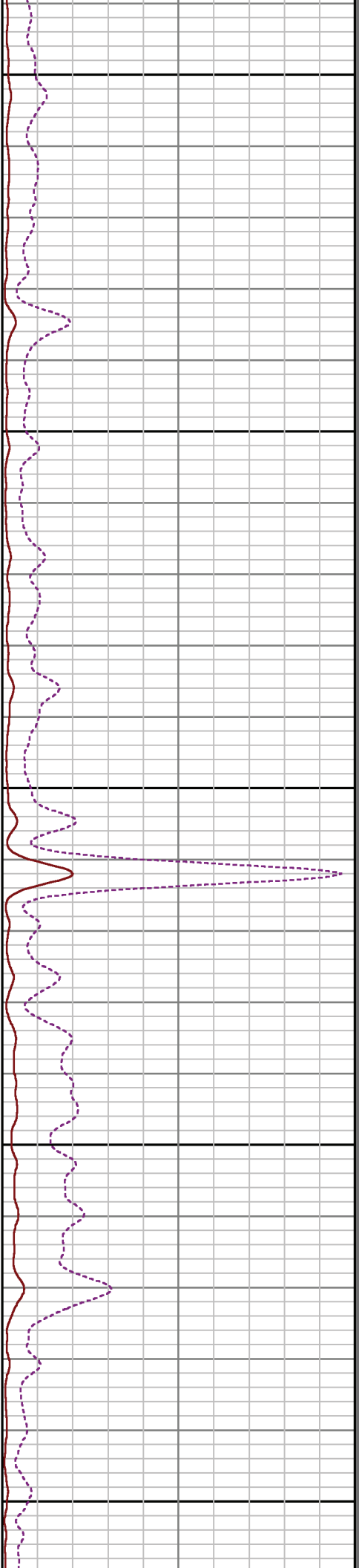
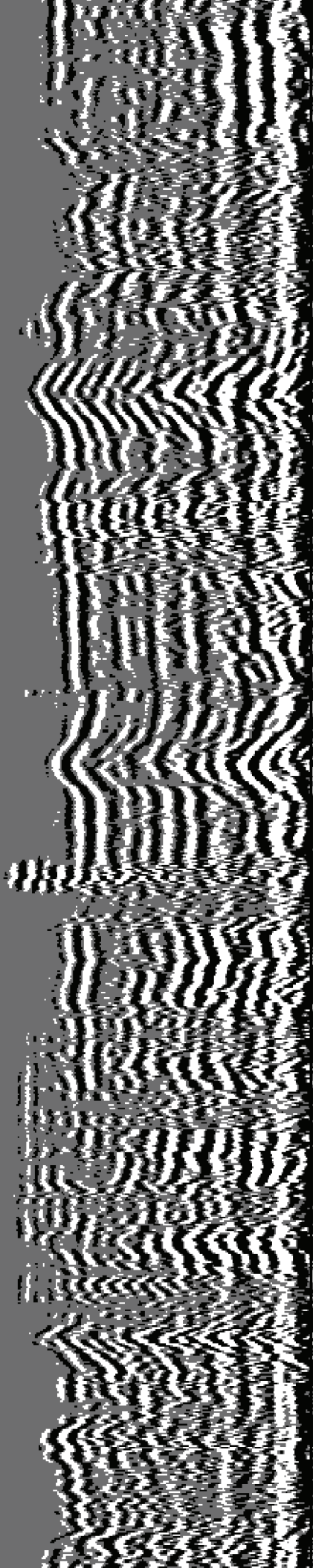


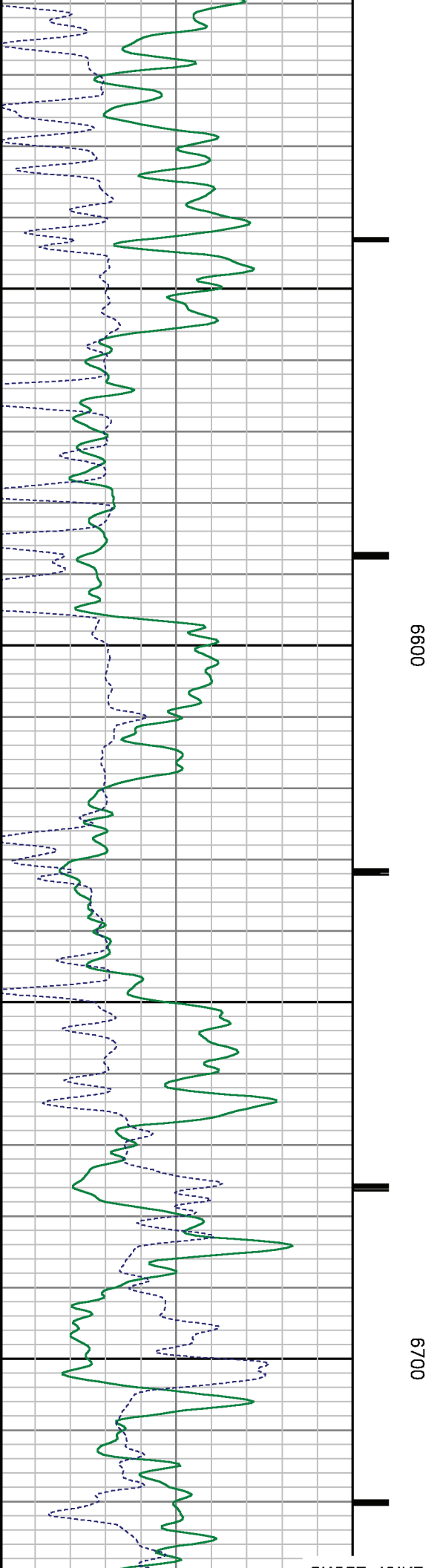
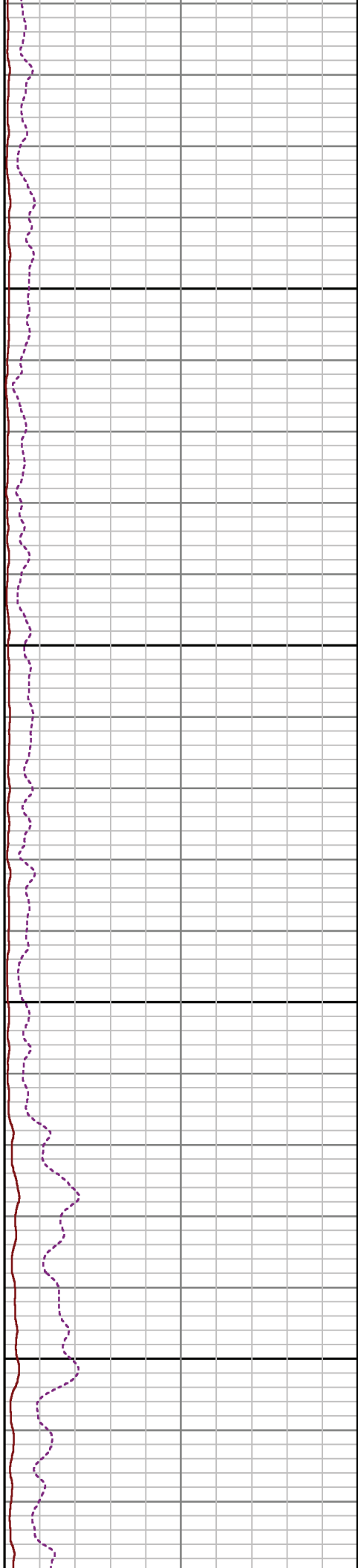
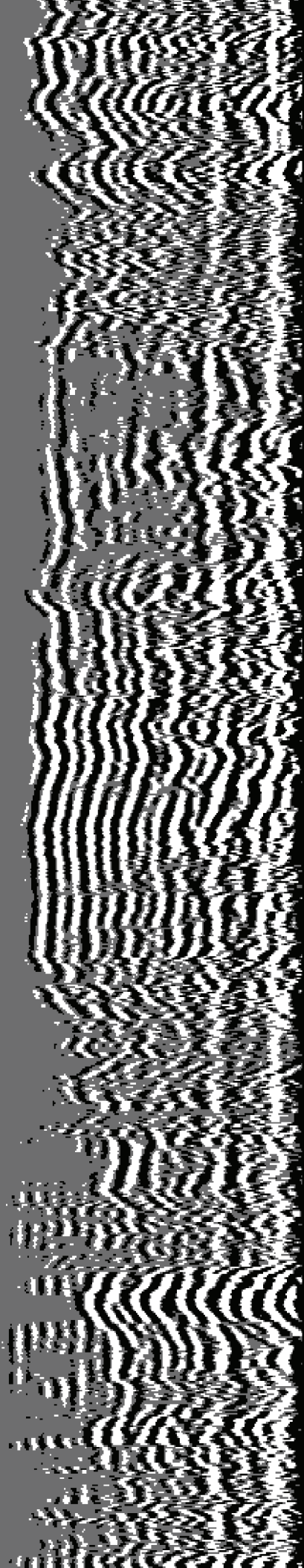


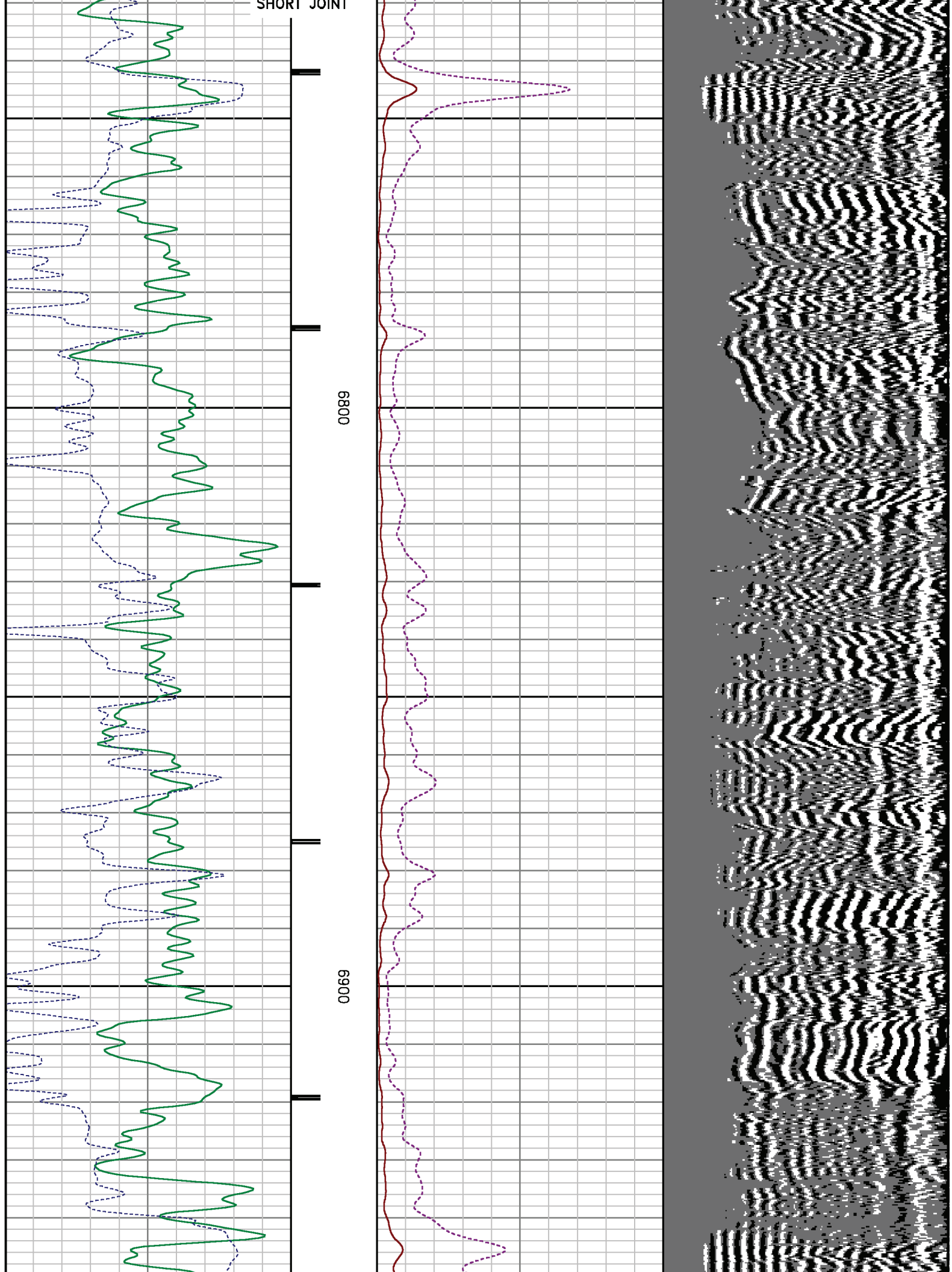


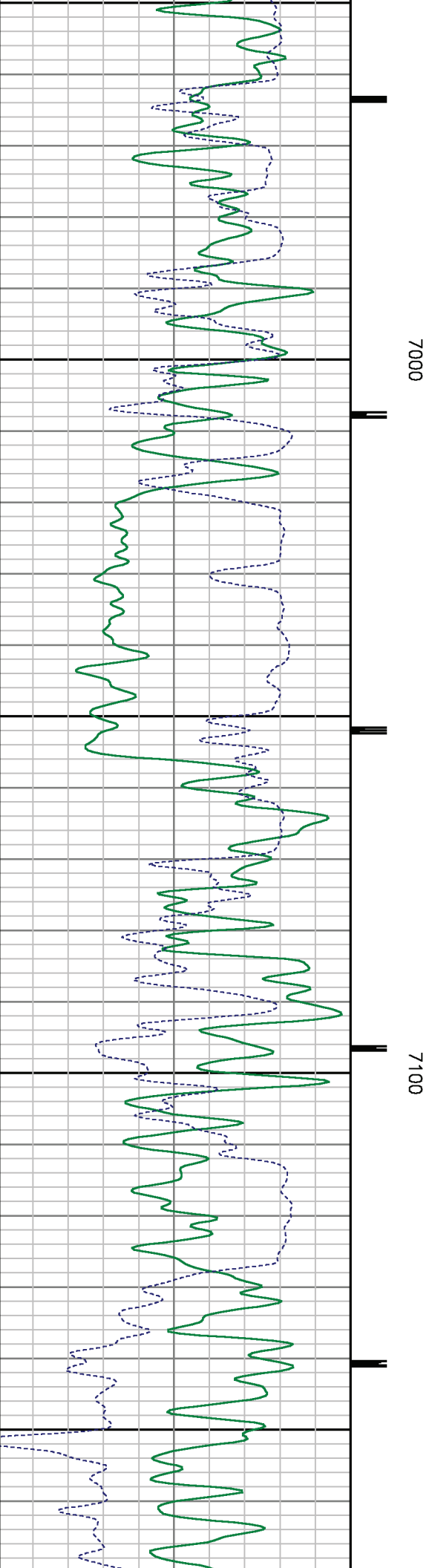
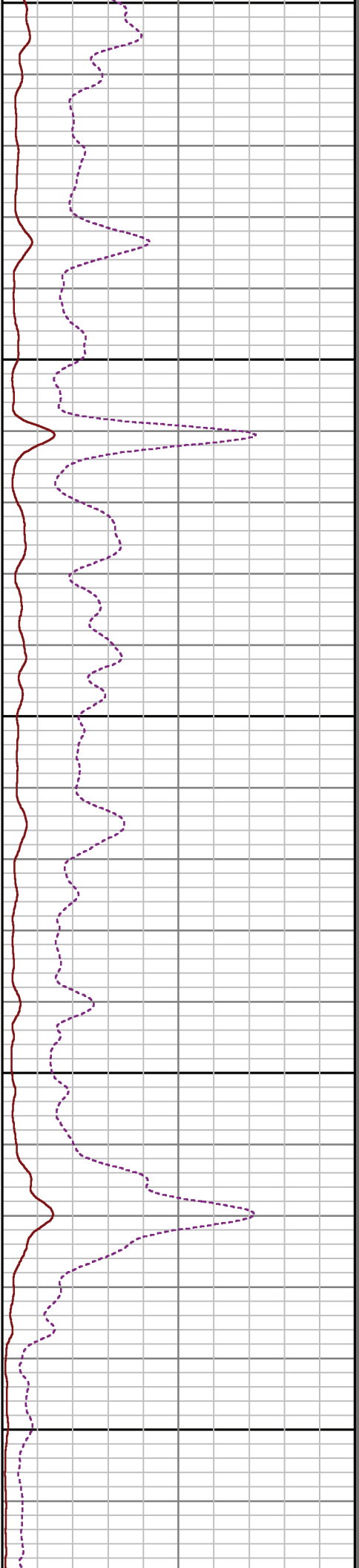
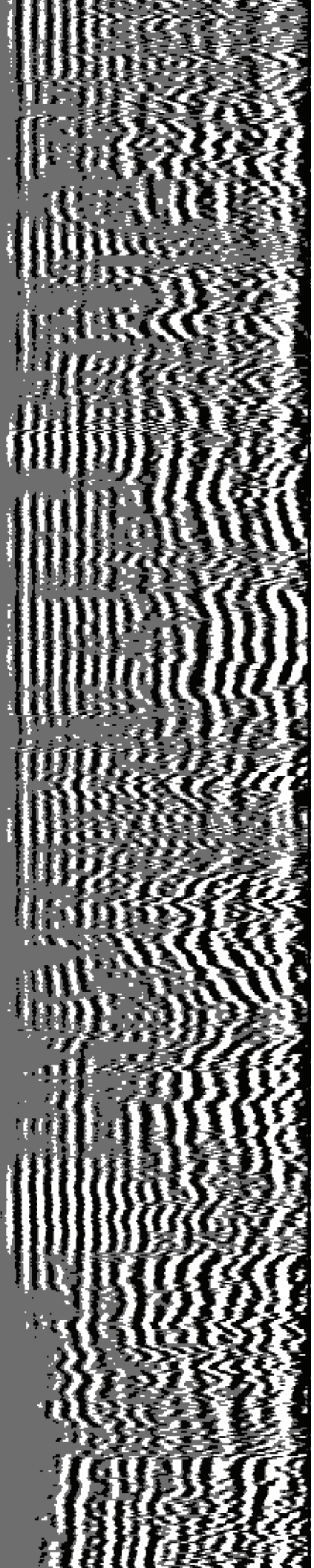


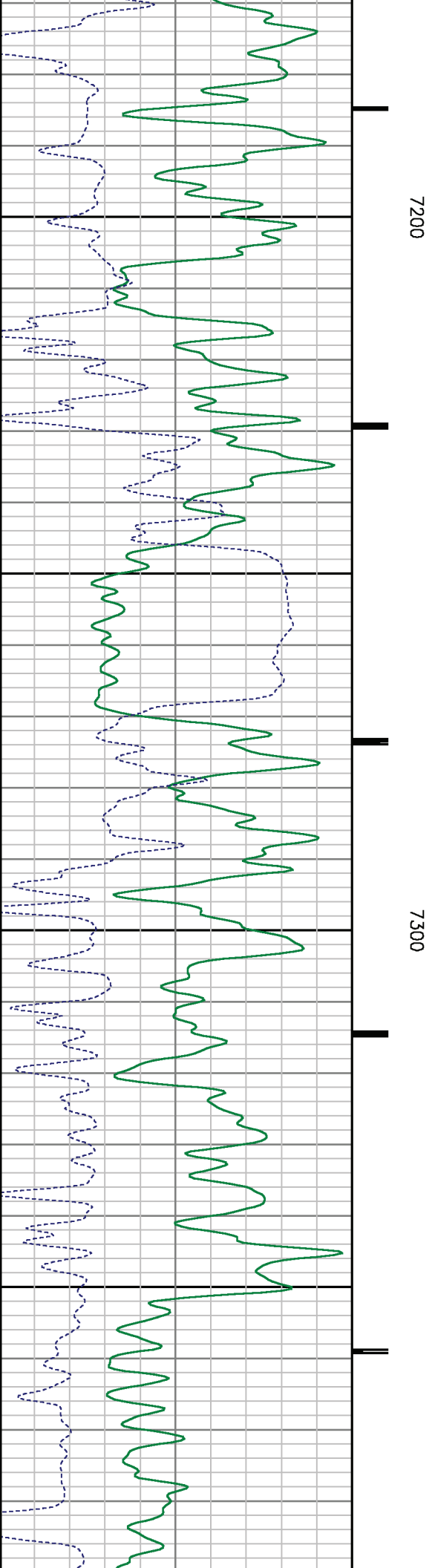
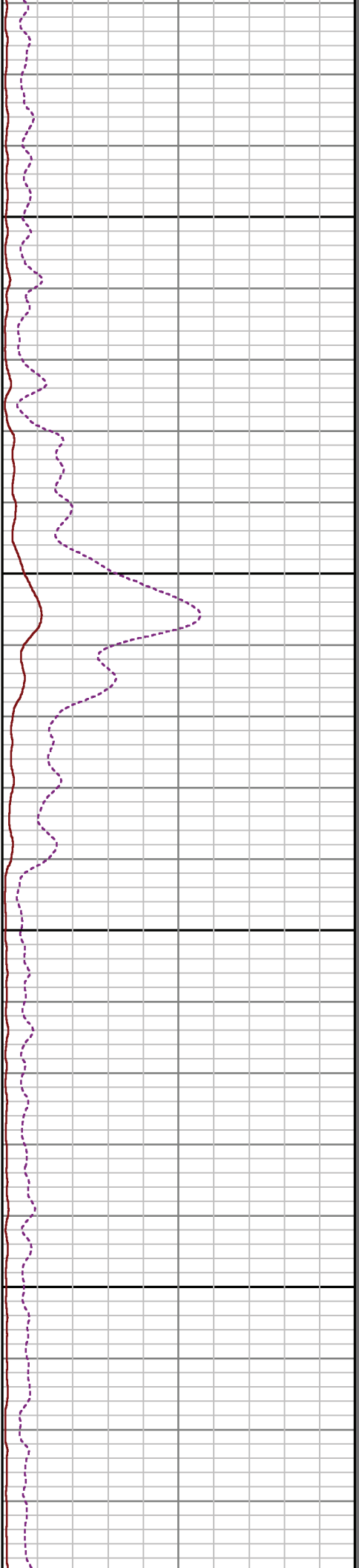
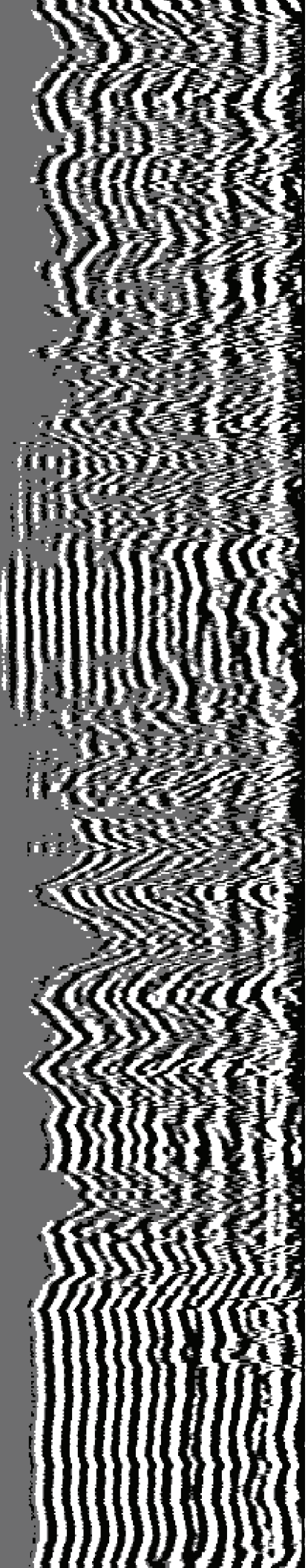


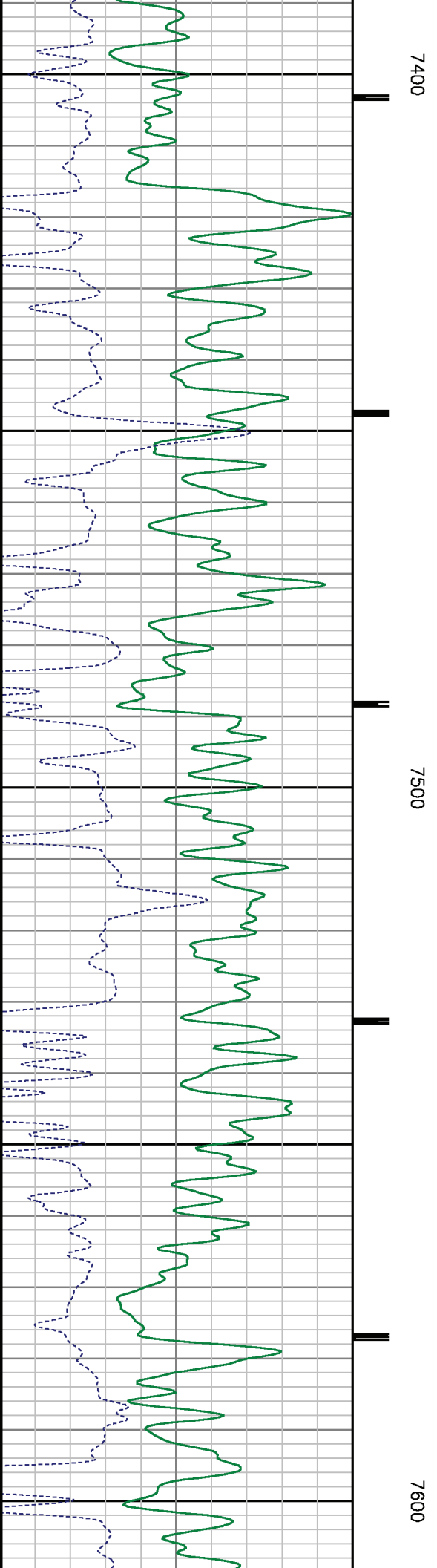
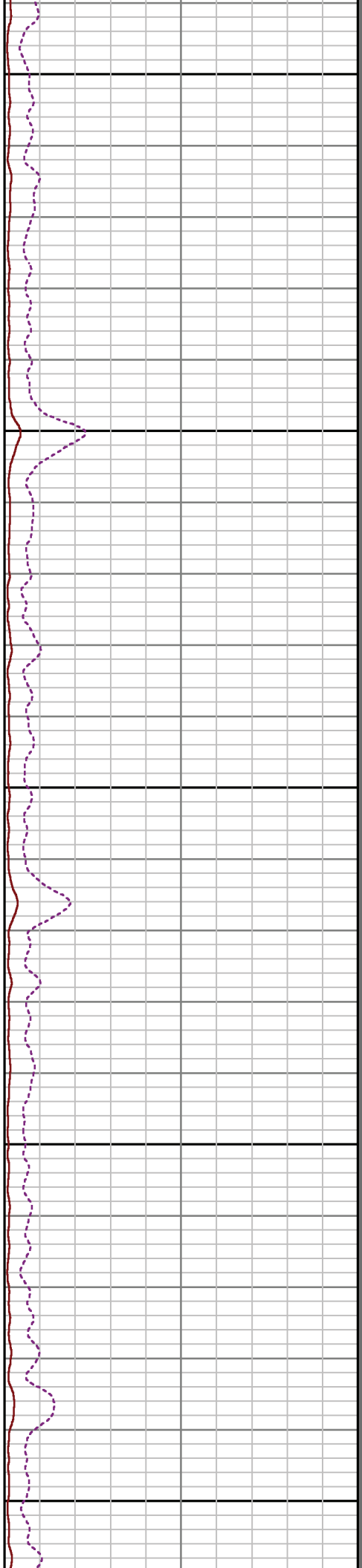
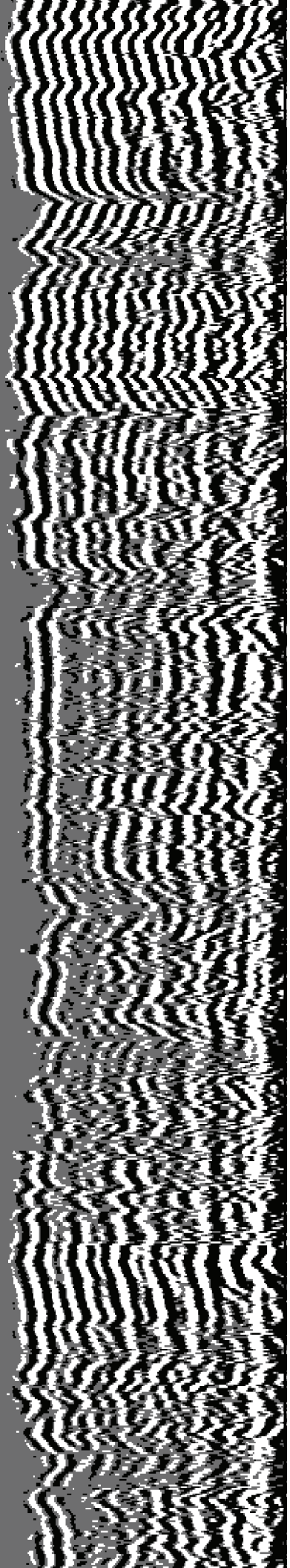


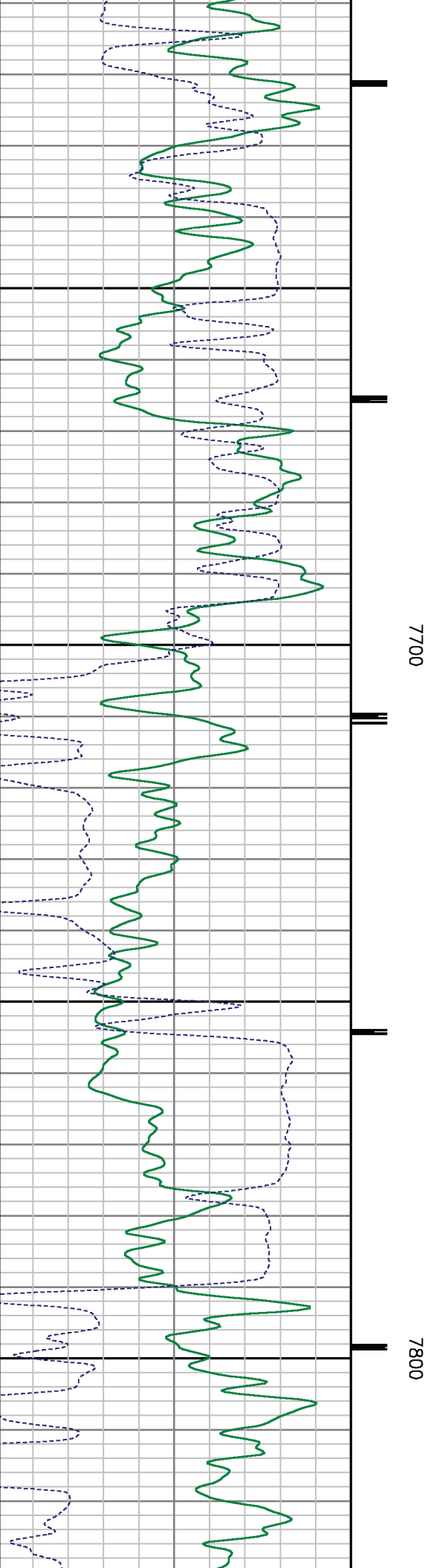
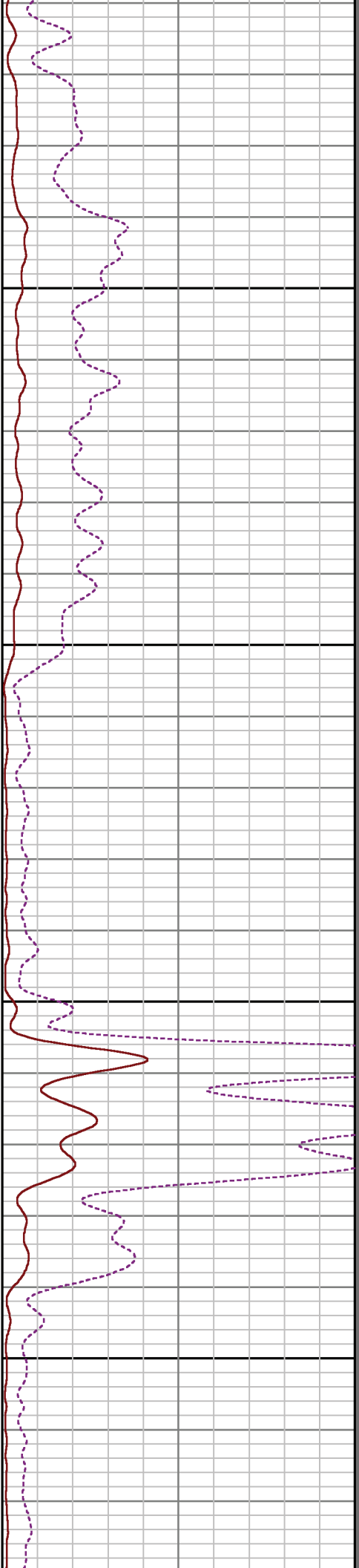
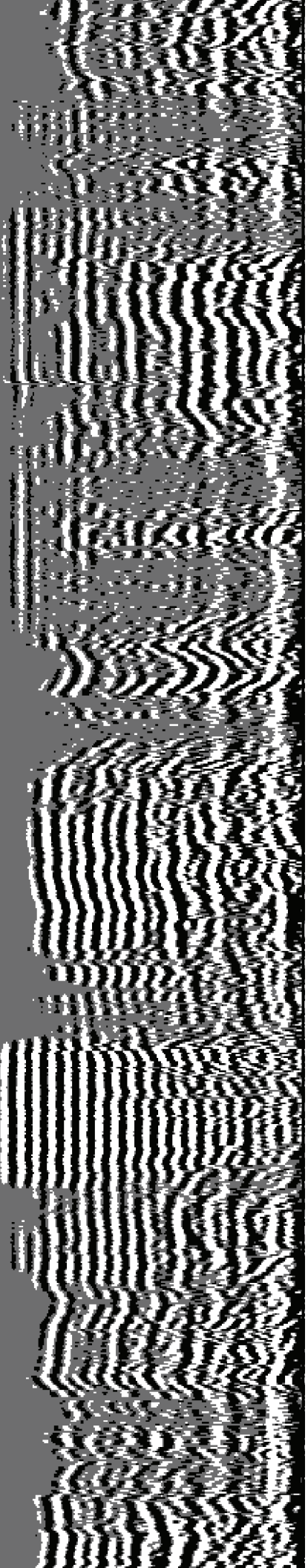


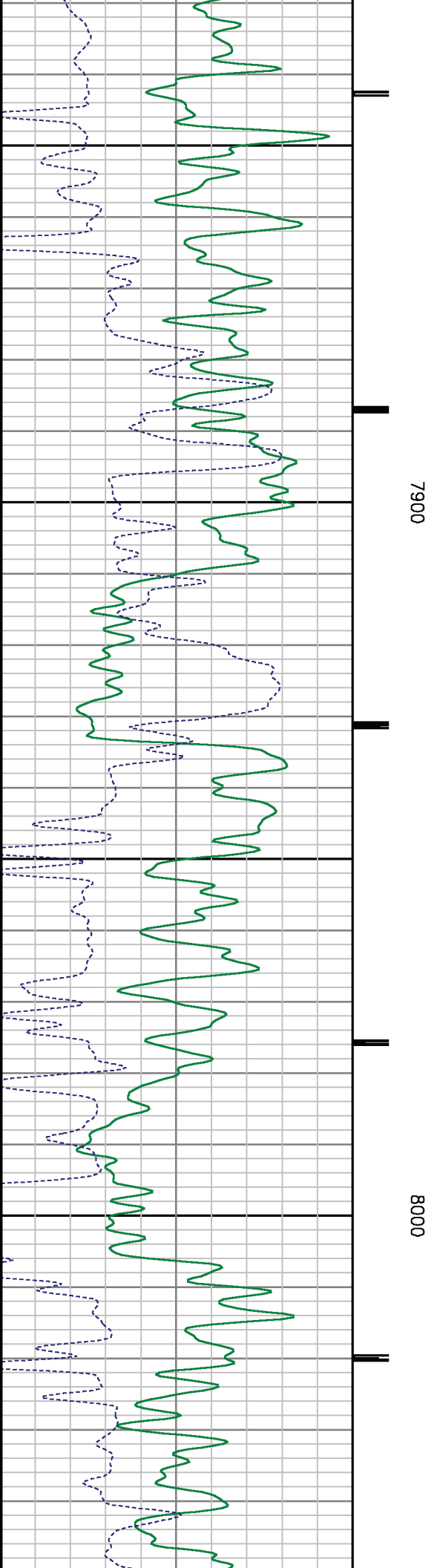
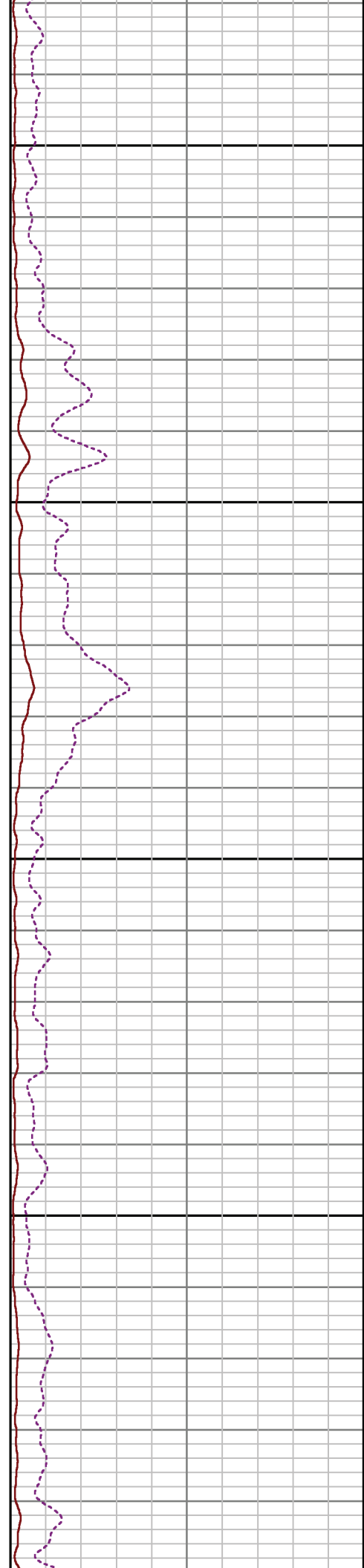
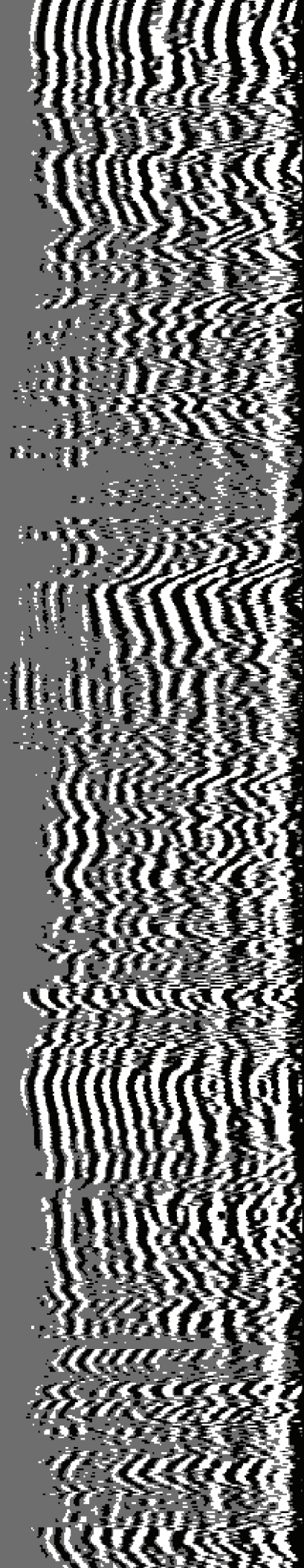


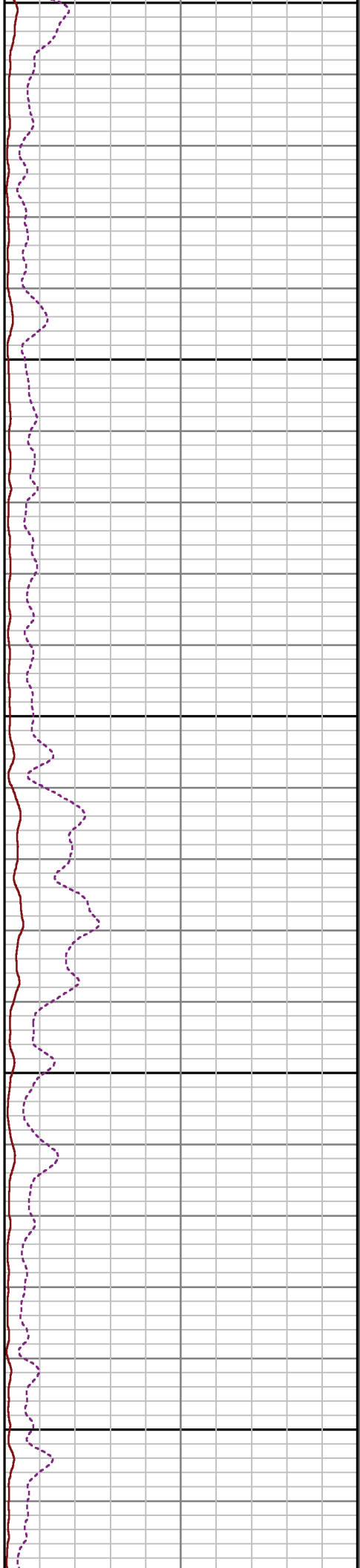
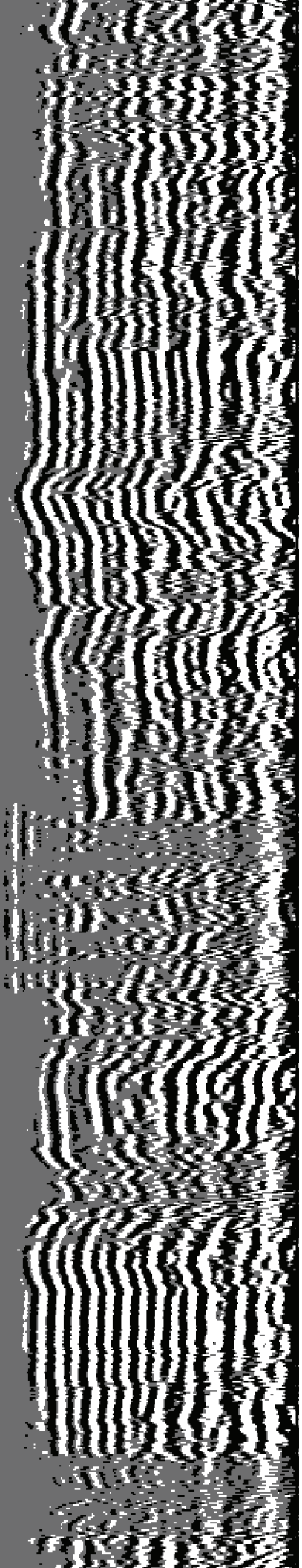






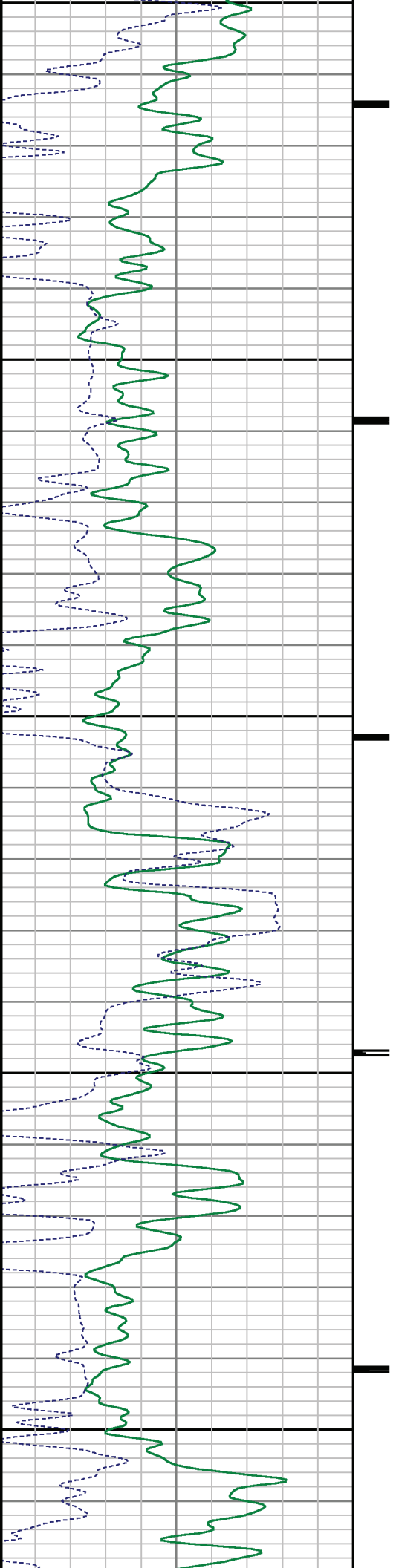


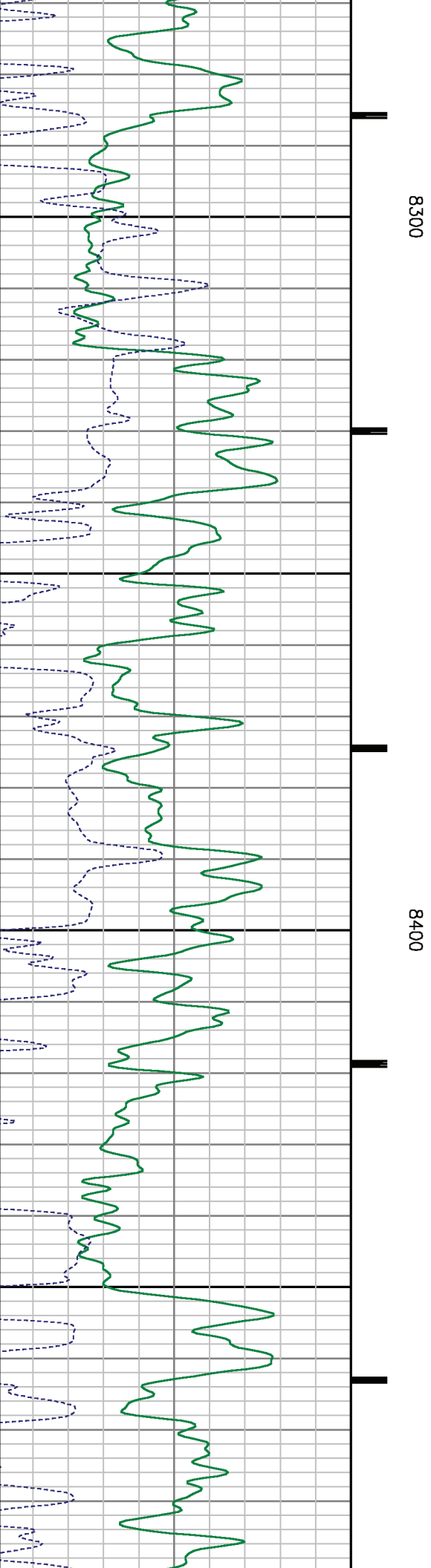
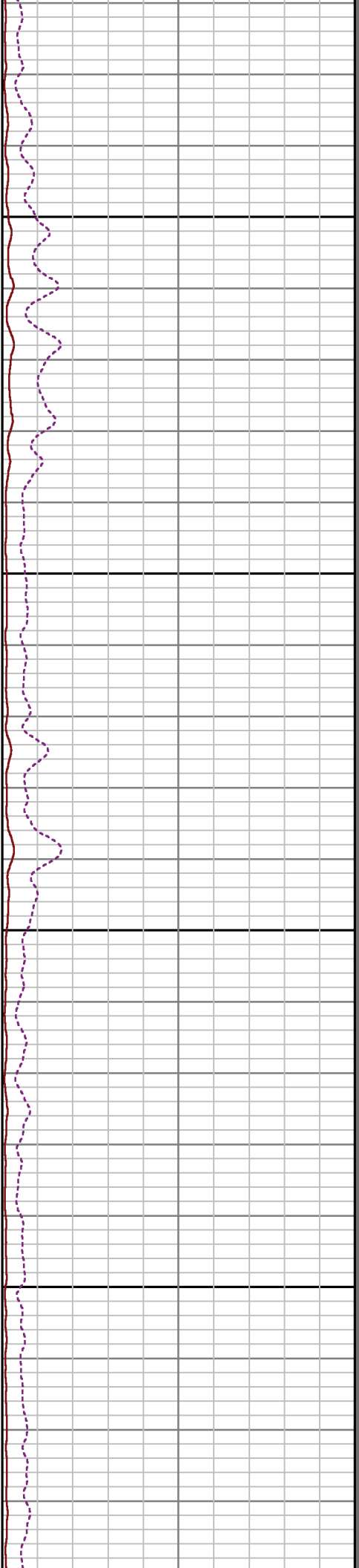
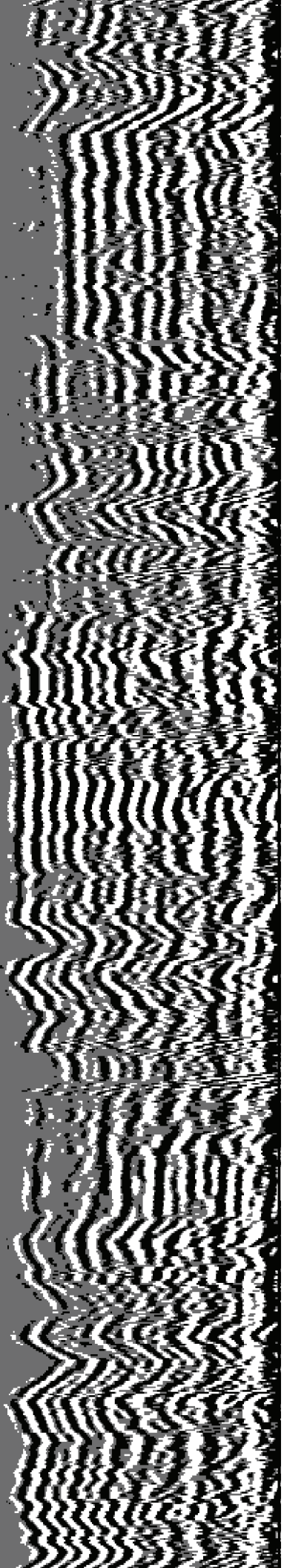


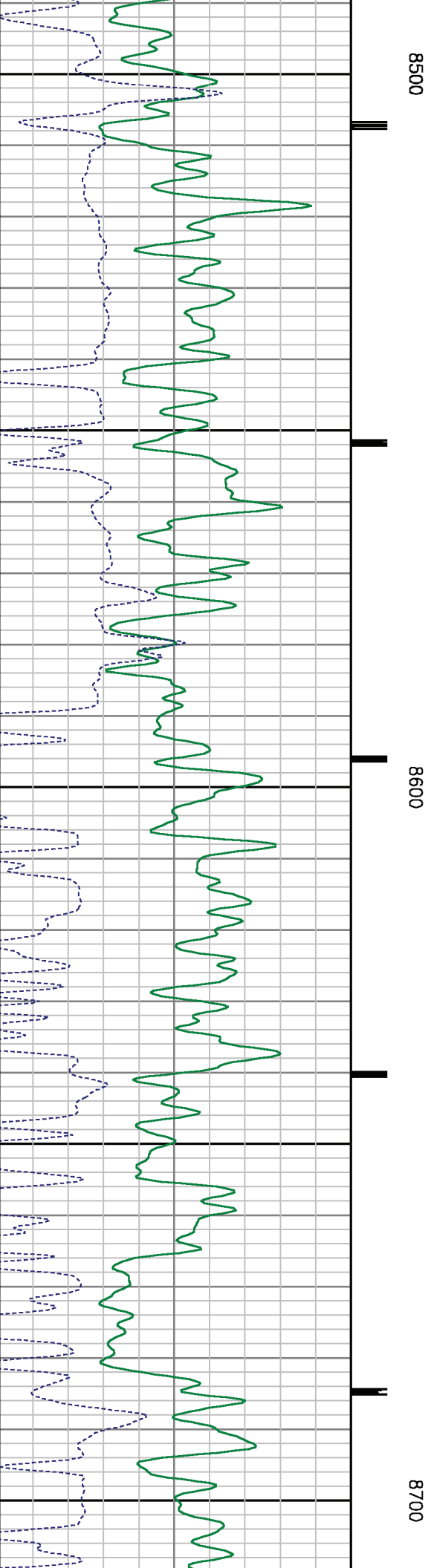
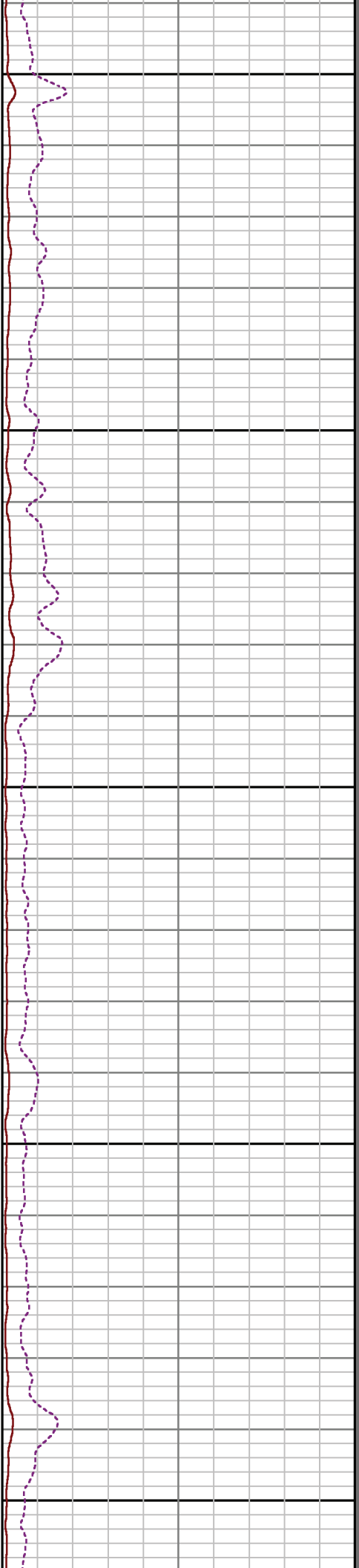
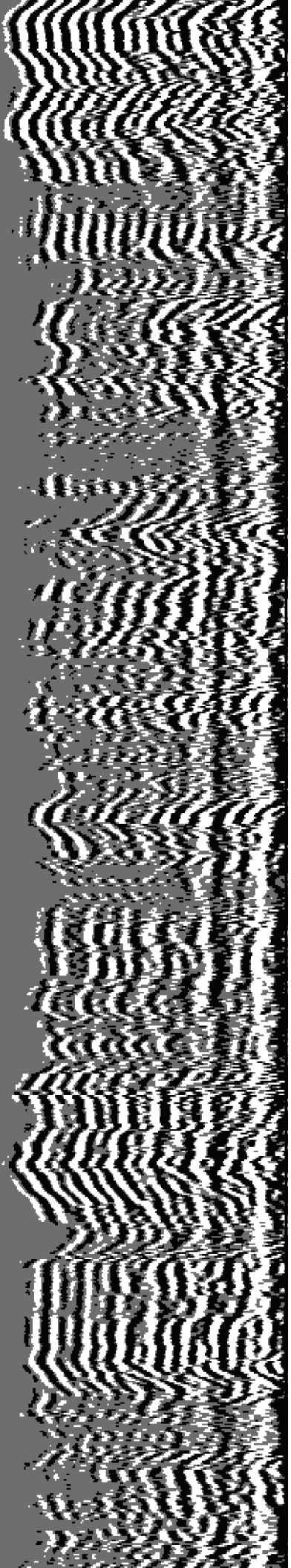


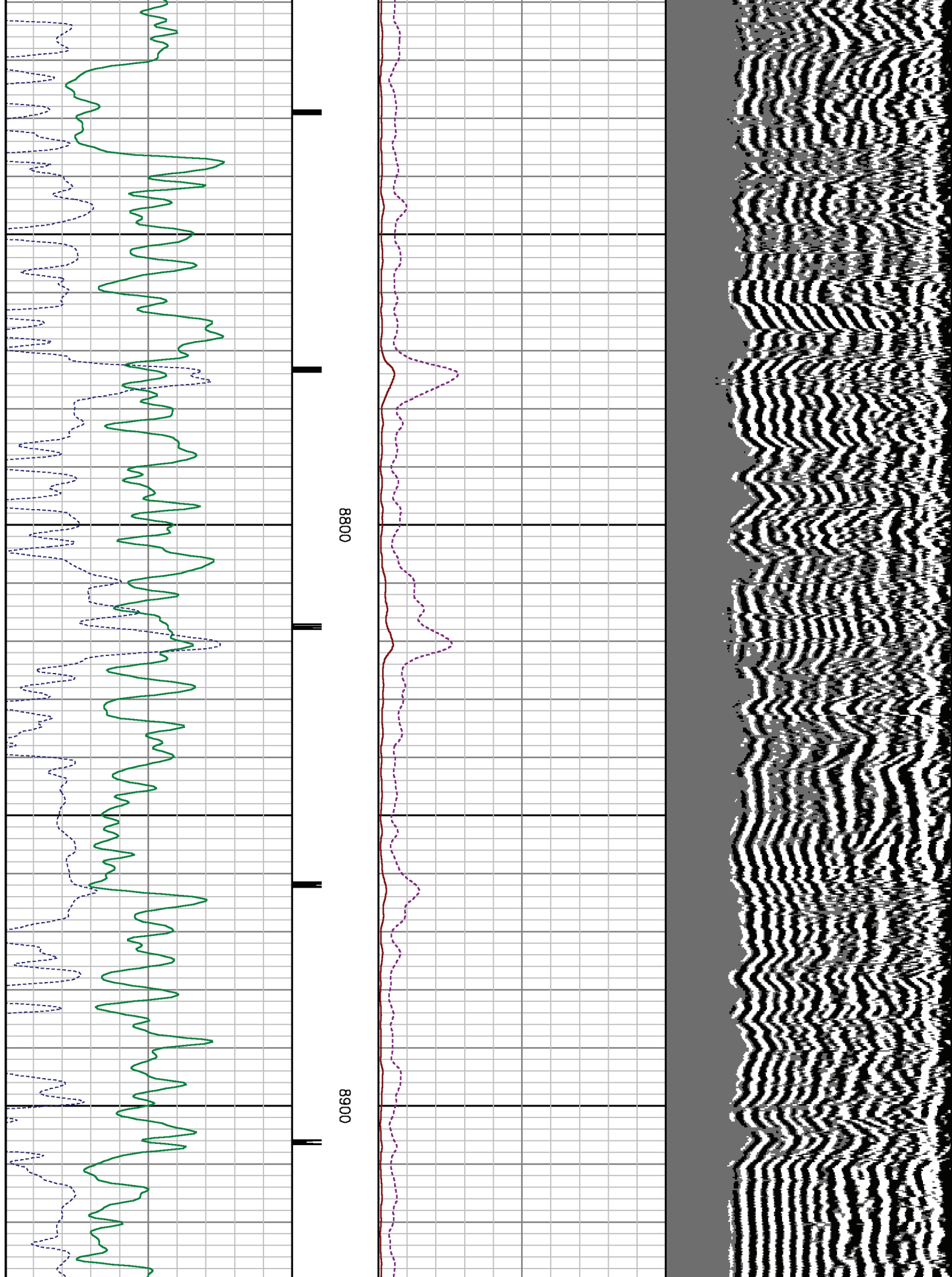
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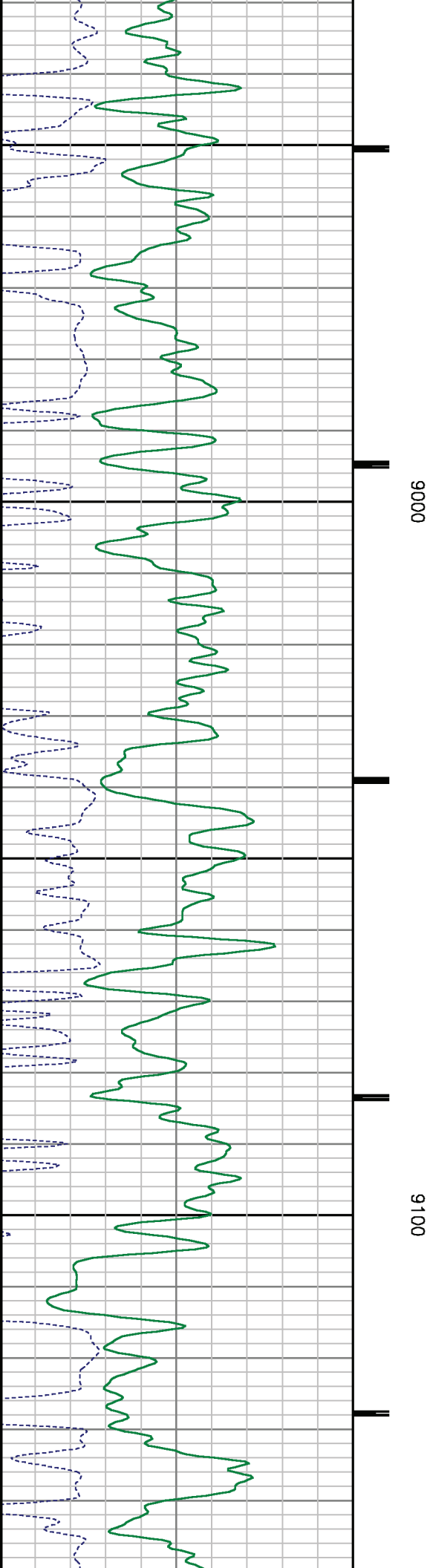
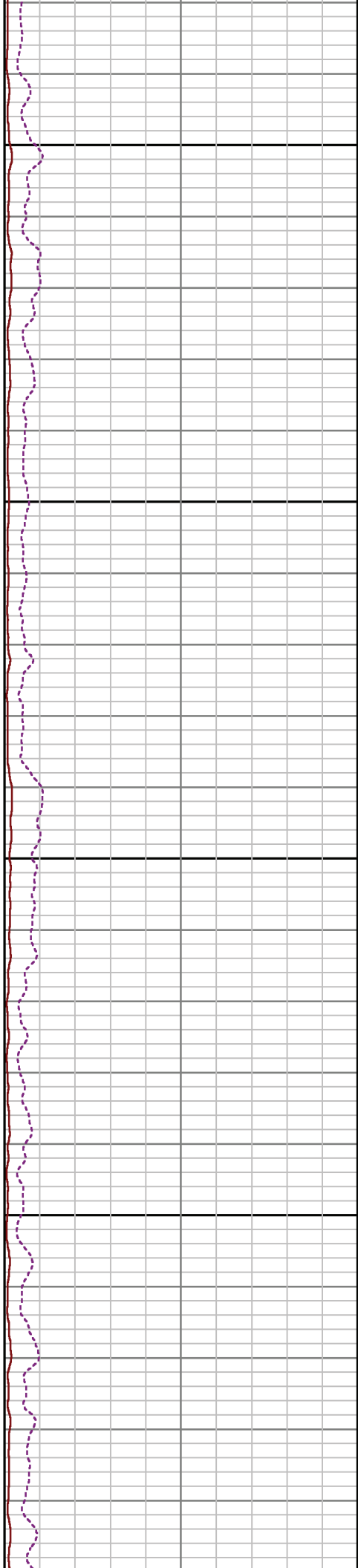
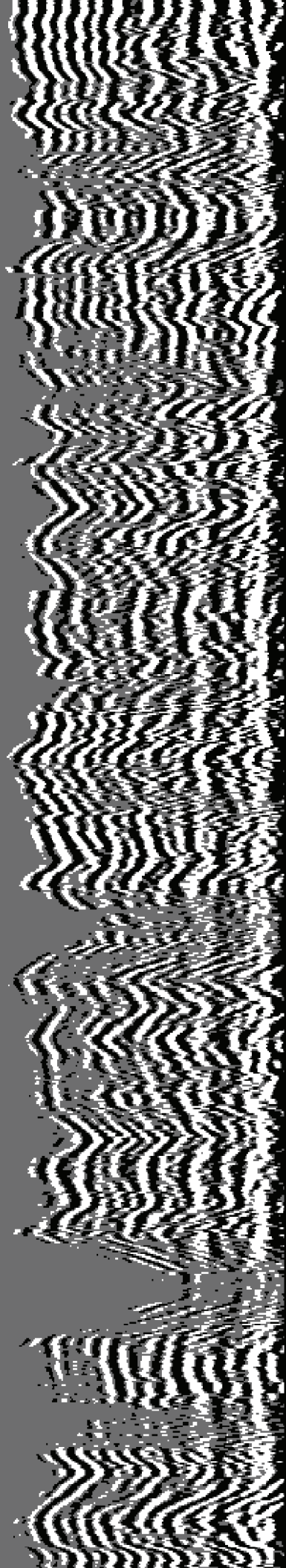
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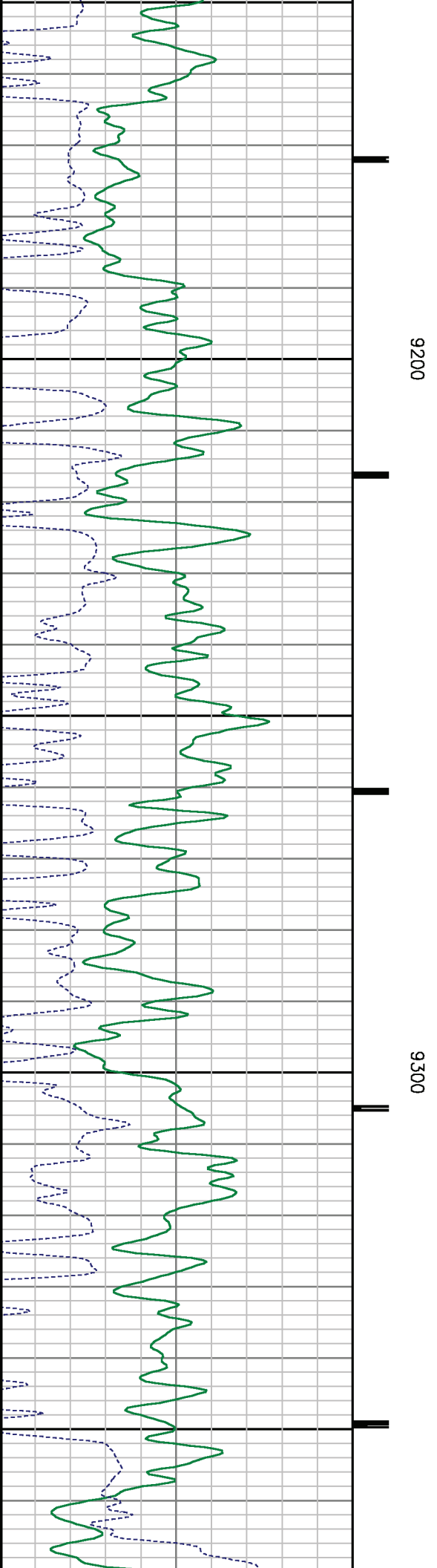
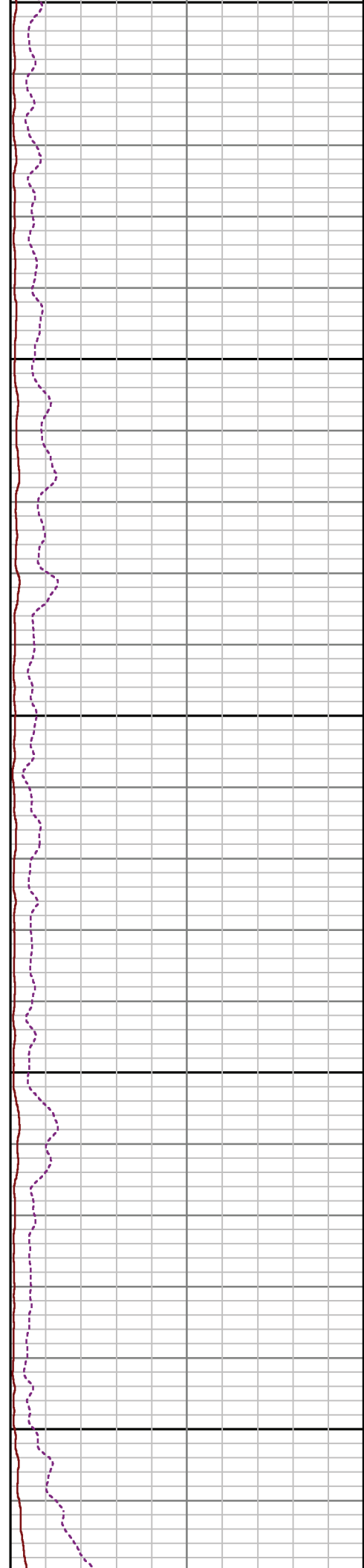
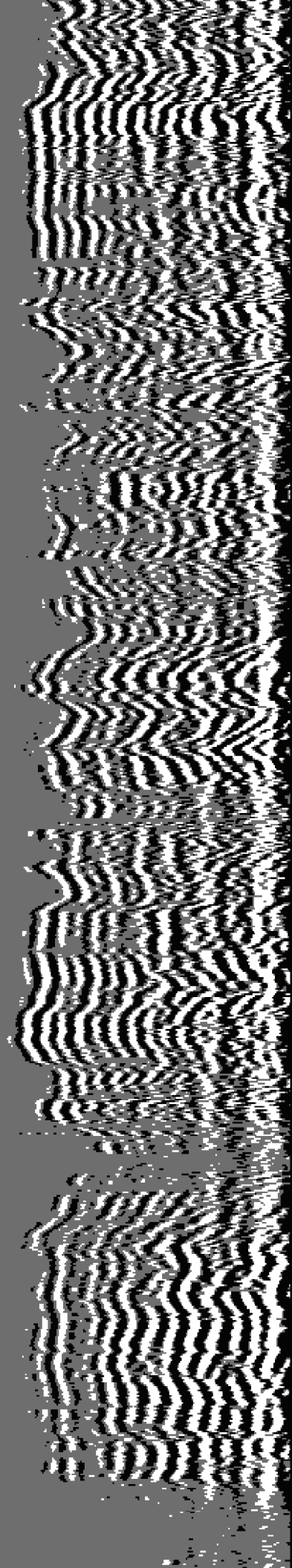


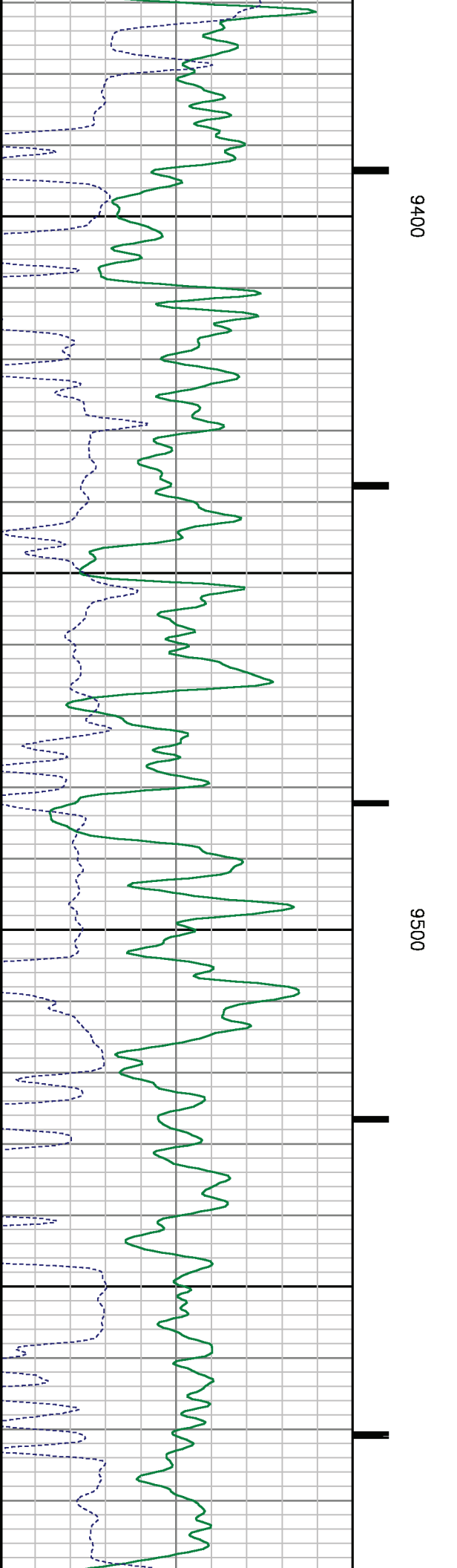
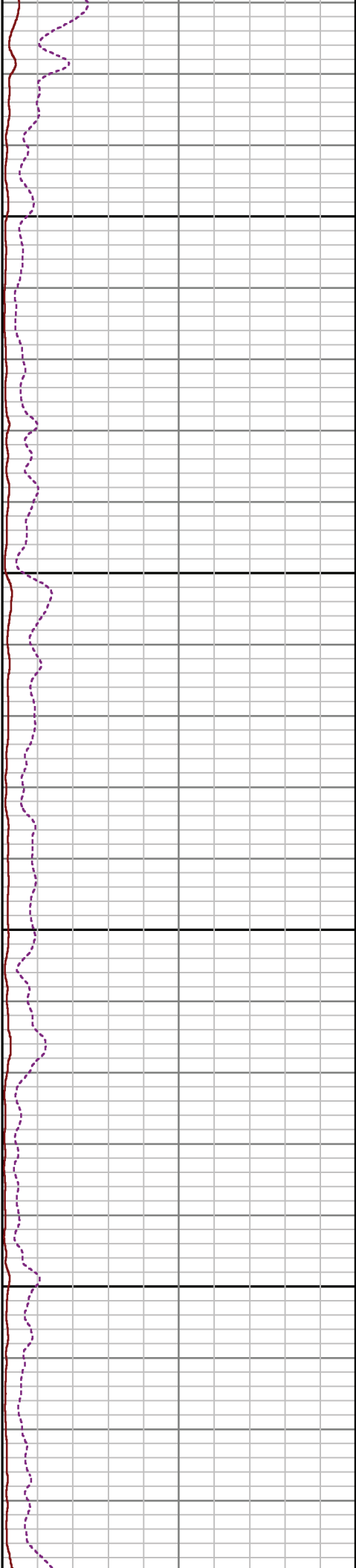
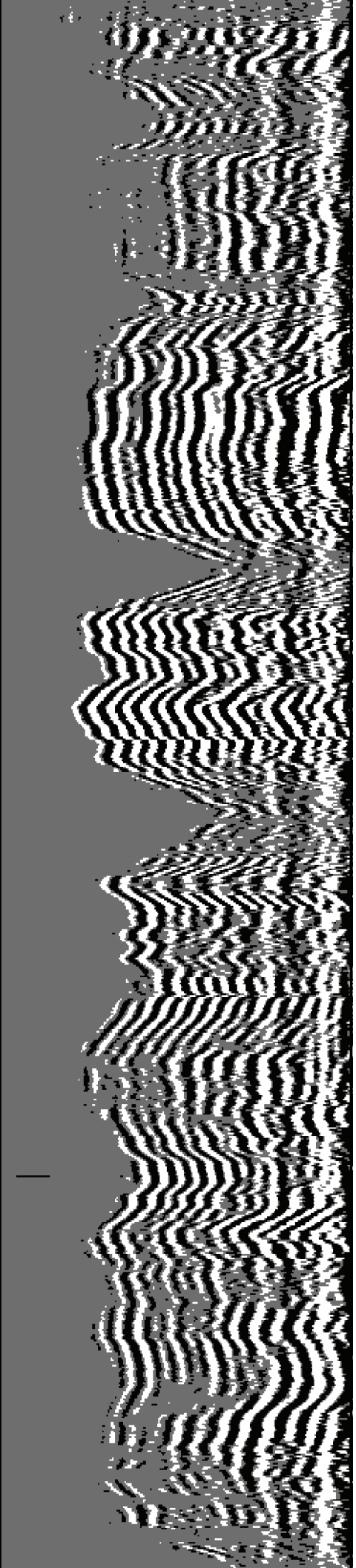


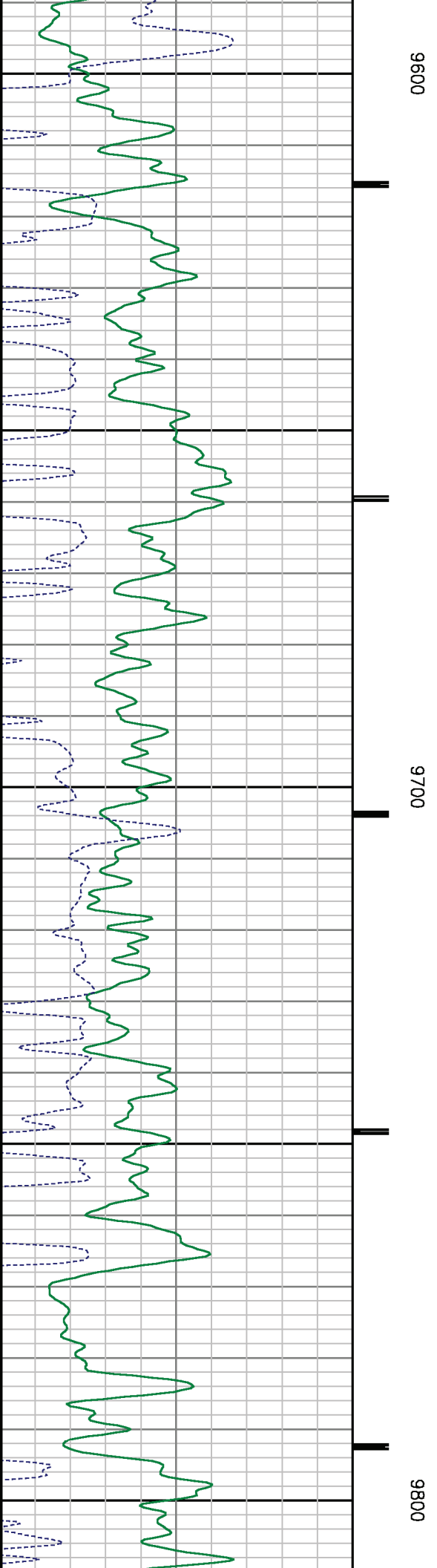
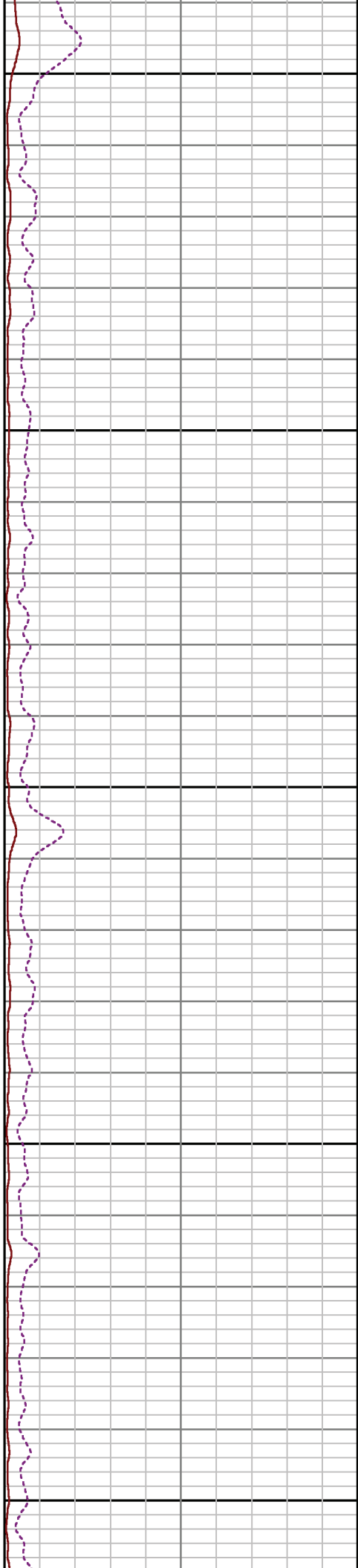
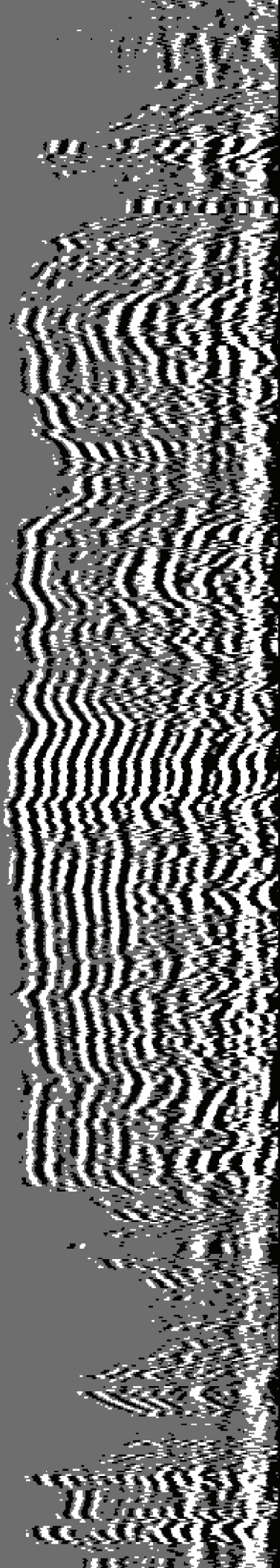


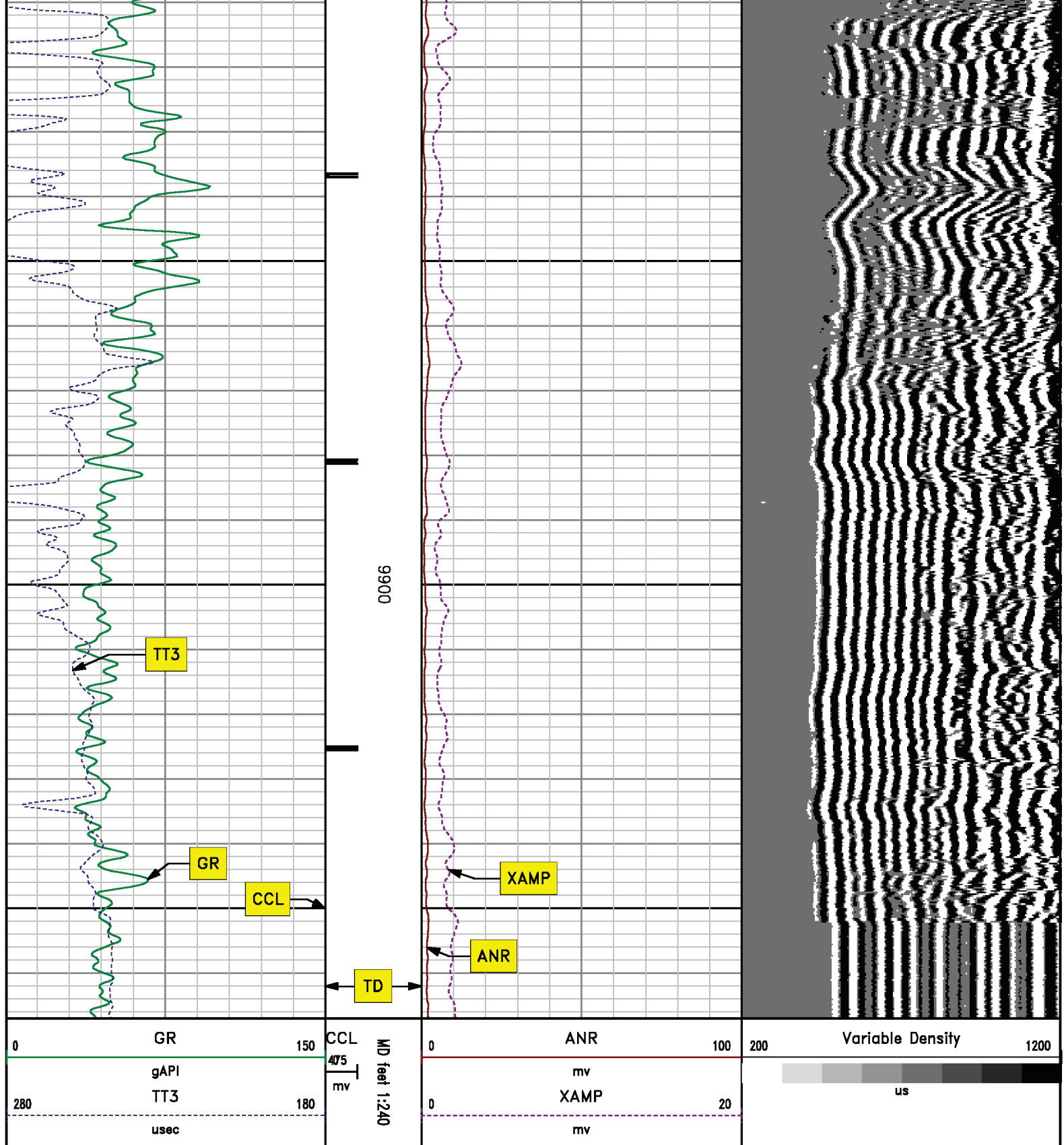












SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	29.447	9980.750
RAL	Amp Gate Start Near	195.000	usec	29.447	9980.750
RAL	Amp Gate Start Radial	195.000	usec	29.447	9980.750
RAL	Amp Gate Width Far	25.000	usec	29.447	9980.750
RAL	Amp Gate Width Near	25.000	usec	29.447	9980.750
RAL	Amp Gate Width Radial	25.000	usec	29.447	9980.750
RAL	casing od	4.500	inches	29.447	9980.750
RAL	casing wt	11.600	lbm/ft	29.447	9980.750
RAL	FB Start Far	291.900	usec	29.447	9980.750
RAL	FB Start Near	175.391	usec	29.447	9980.750
RAL	FB Start Radial	175.391	usec	29.447	9980.750
RAL	FB Thresh Far	10.000	mv	29.447	9980.750
RAL	FB Thresh Near	4.000	mv	29.447	9980.750
RAL	FB Thresh Radial	4.000	mv	29.447	9980.750
RAL	Fluid Travel Time	200.000	usec/ft	29.447	9980.750

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					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : FEDERAL RU 331-5

File Name : D:\WELLDATA\WPX\Federal RU 331-5\cb1331\MAIN.XTF

Mode : PlotMgr 5.4.504

Interval : 0.00 - 9967.00 feet UP

Created : 12/28/2013 1:57:31 PM

0	GR	150	CCL	MD (ft)	0	ANR	100	Variable Density	0	AR1	100	0	PBMAP	360
			475					200						