



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH085759 FEDERAL NER 434-32

API No: RULISON

05045217780000 GARFIELD State CO

Location

SHL: 165' FNL. & 2595' FWL (5 75 93W)

BHL: 346' FSL & 1766' FEL (32 55 93W)

SEC 32 TWP 6S RGE 93W

Other Services

RPM

Permanent Datum

GL Elevation 7603 ft

Log Measured From KB 26 ft Above P. D.

Drill Measured From KB Elevations KB 7629 ft DF 7603 ft GL

Date 13/MAY/14

Run ONE

Service Order US085759

Depth Driller 10077 ft

Depth Logger 10012 ft

Bottom Logged Interval 10002 ft

Top Logged Interval 26 ft

Time Started 7:30

Time Finished 12:00

Operator Rig Time 4.5 HOURS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 88 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 246 degF

Reference Log NA

Equipment No. 4271 Location GRAND JUNCTION

Recorded By NEMELL

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	1108 ft
8.75 in	1108 ft	10133 ft

Casing Record

Size	Weight	Grade	From	To
9.625 in			0 ft	1108 ft
4.5 in	11.6 lbm/ft	P-110	0 ft	10133 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 10 feet.

Logged with zero PSI at wellhead.

BHT = 246 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10417456	CENTRALIZED

PRIMARY PRESENTATION

0 PSI

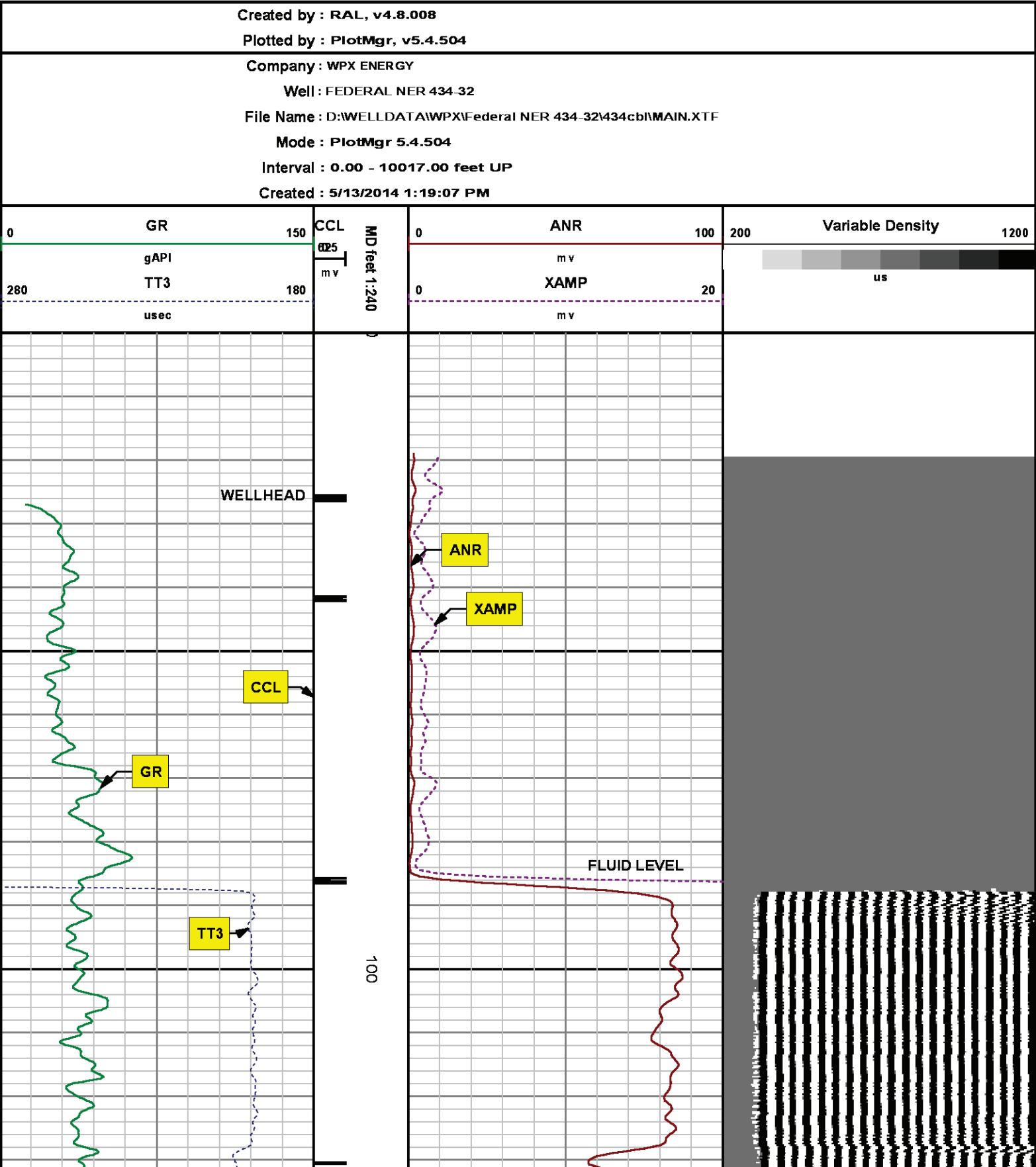
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.129	10013.250
RAL	Amp Gate Start Near	195.000	usec	35.129	10013.250
RAL	Amp Gate Start Radial	195.000	usec	35.129	10013.250
RAL	Amp Gate Width Far	25.000	usec	35.129	10013.250
RAL	Amp Gate Width Near	25.000	usec	35.129	10013.250
RAL	Amp Gate Width Radial	25.000	usec	35.129	10013.250
RAL	casing od	4.500	inches	35.129	10013.250
RAL	casing wt	11.600	lbm/ft	35.129	10013.250
RAL	FB Start Far	291.900	usec	35.129	10013.250
RAL	FB Start Near	175.391	usec	35.129	10013.250
RAL	FB Start Radial	175.391	usec	35.129	10013.250
RAL	FB Thresh Far	10.000	mv	35.129	10013.250
RAL	FB Thresh Near	4.000	mv	35.129	10013.250
RAL	FB Thresh Radial	4.000	mv	35.129	10013.250
RAL	Fluid Travel Time	200.000	usec/ft	35.129	10013.598

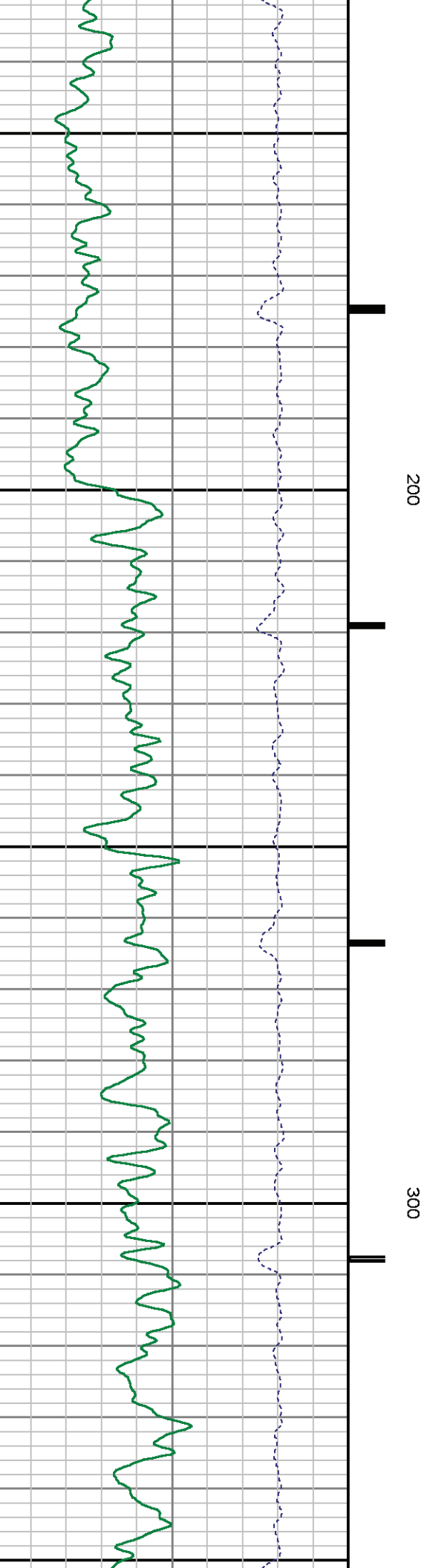
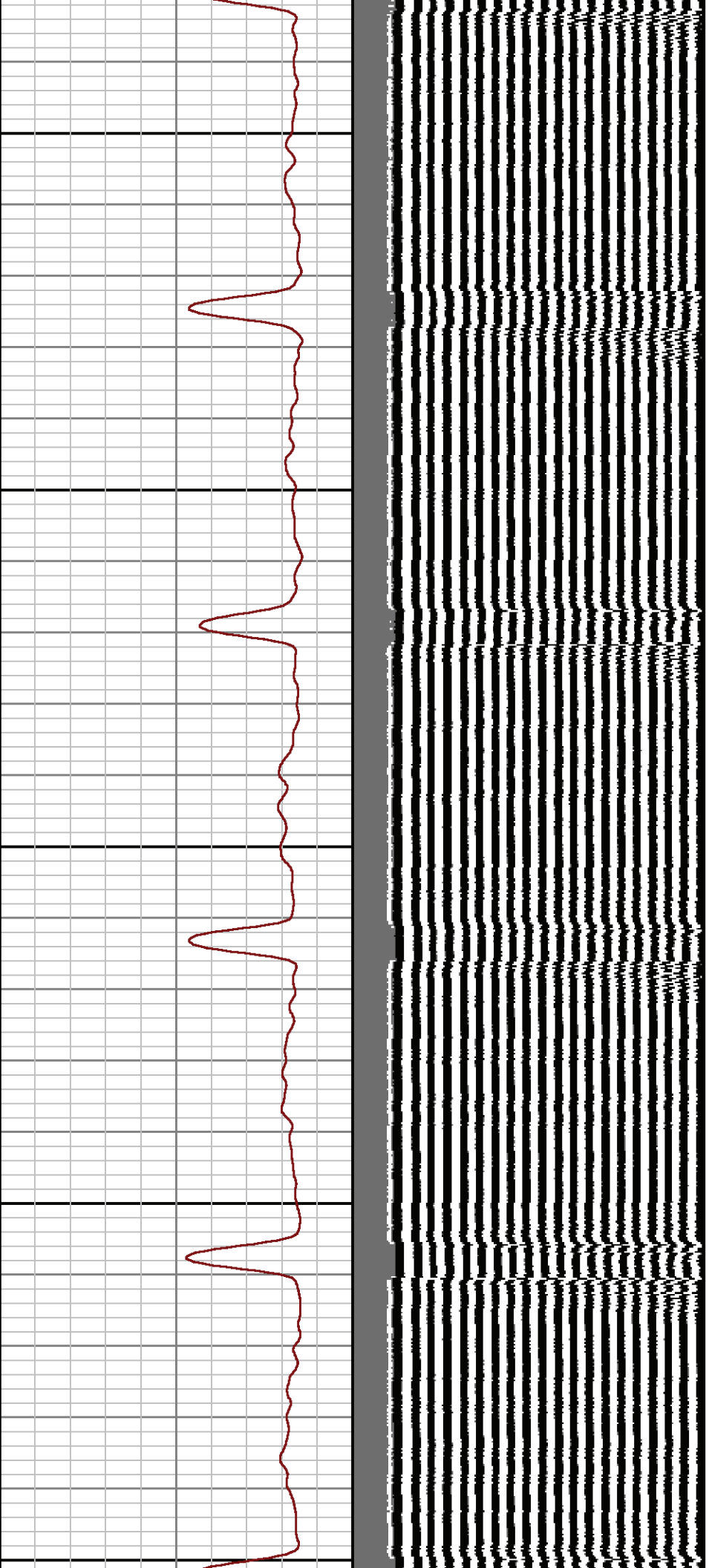
DEPTH OFFSETS

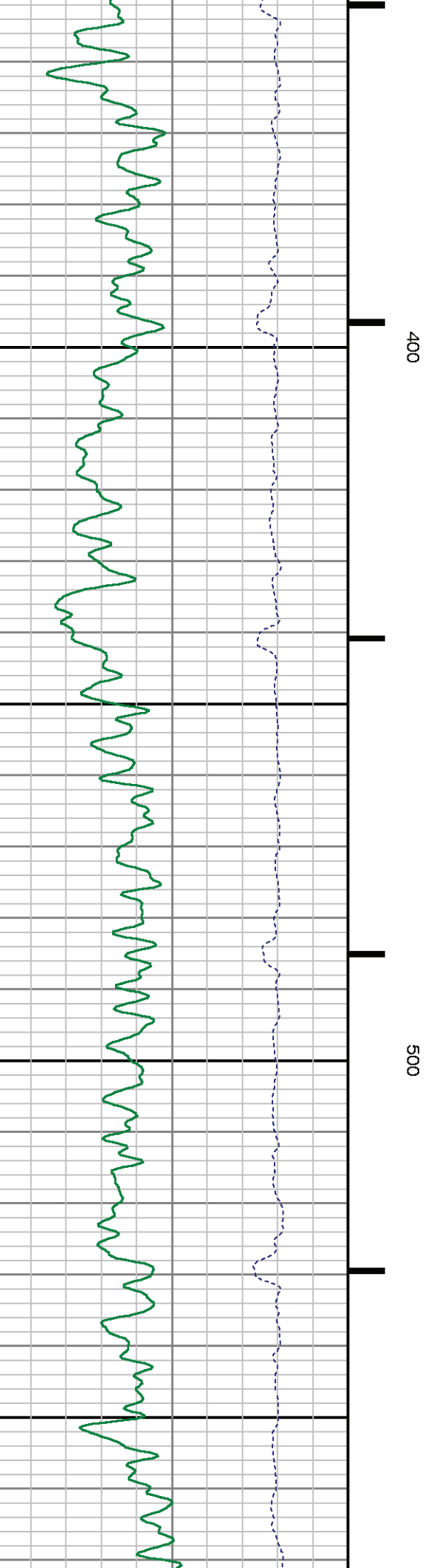
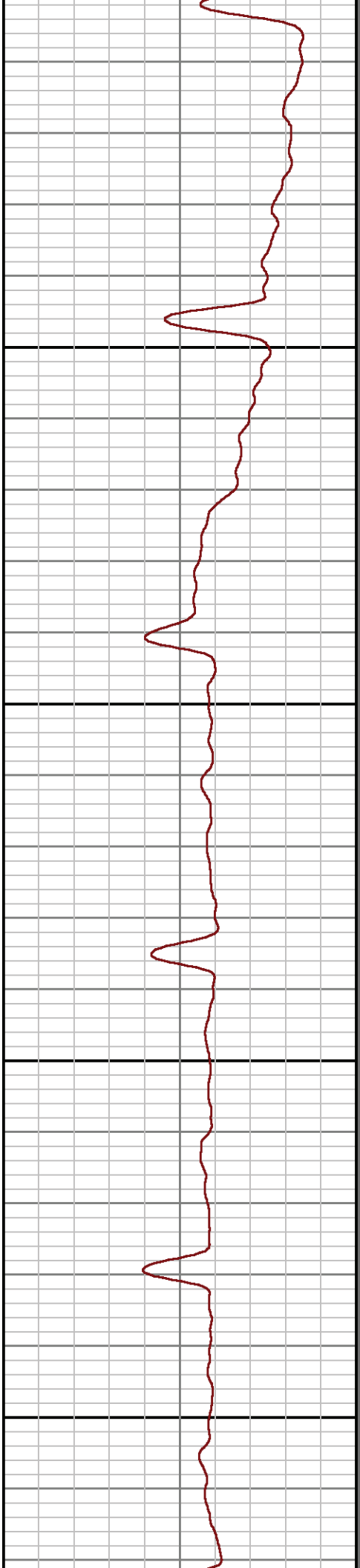
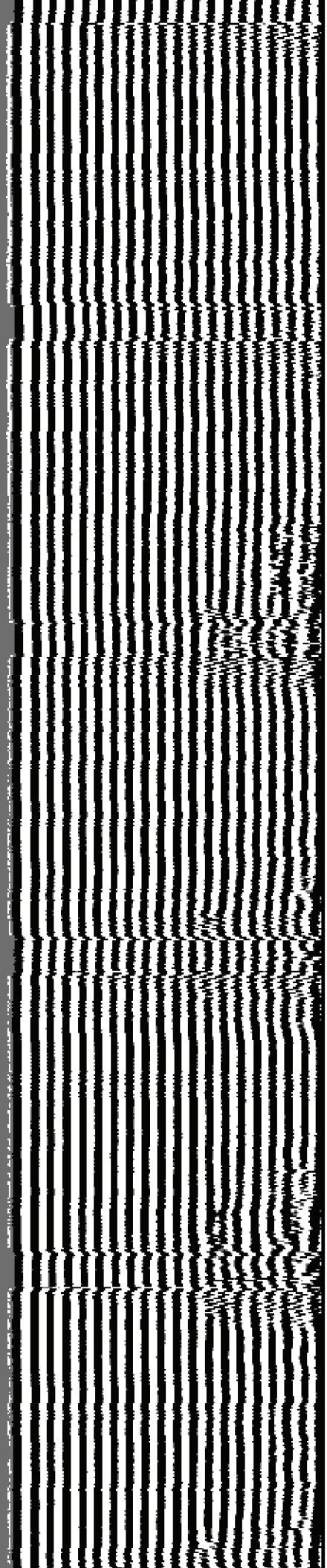
(for Acquired Curves)

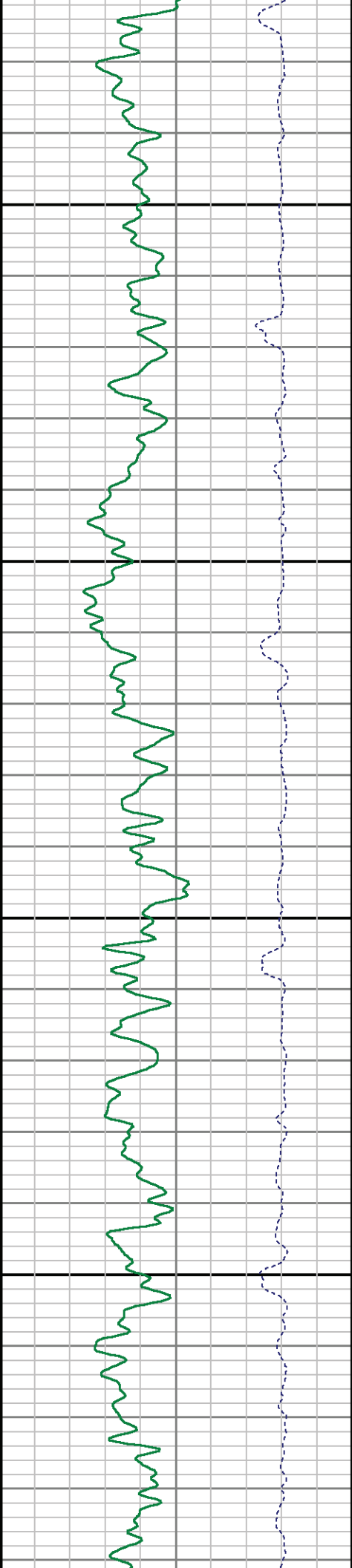
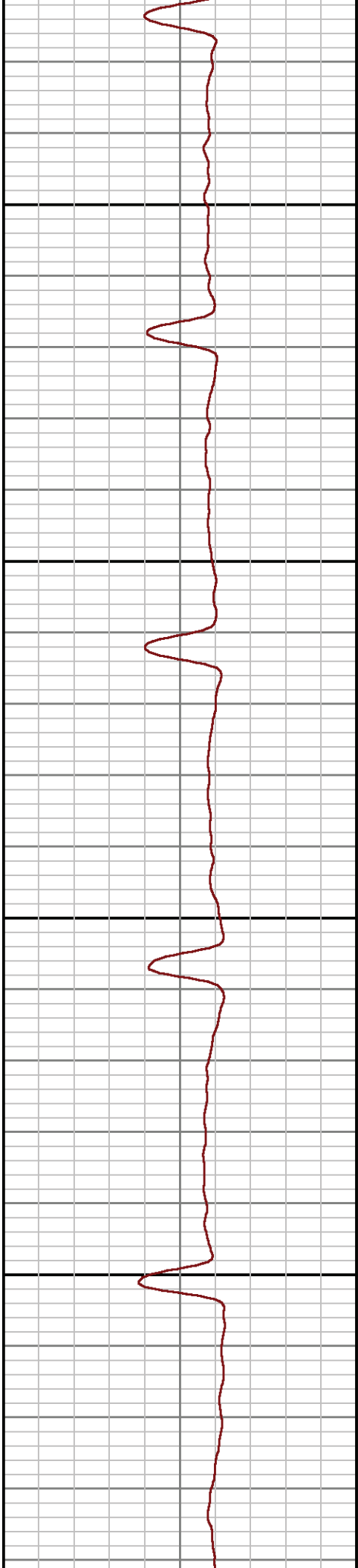
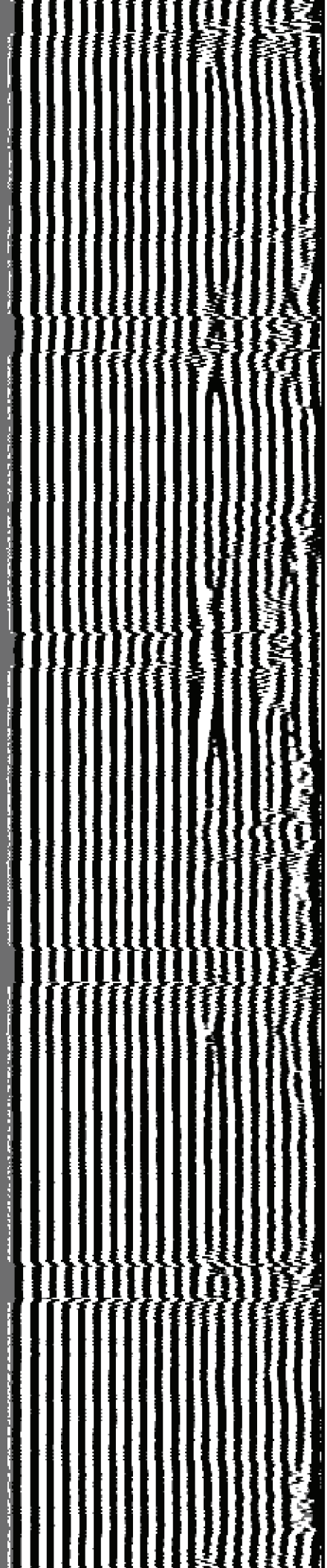
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		

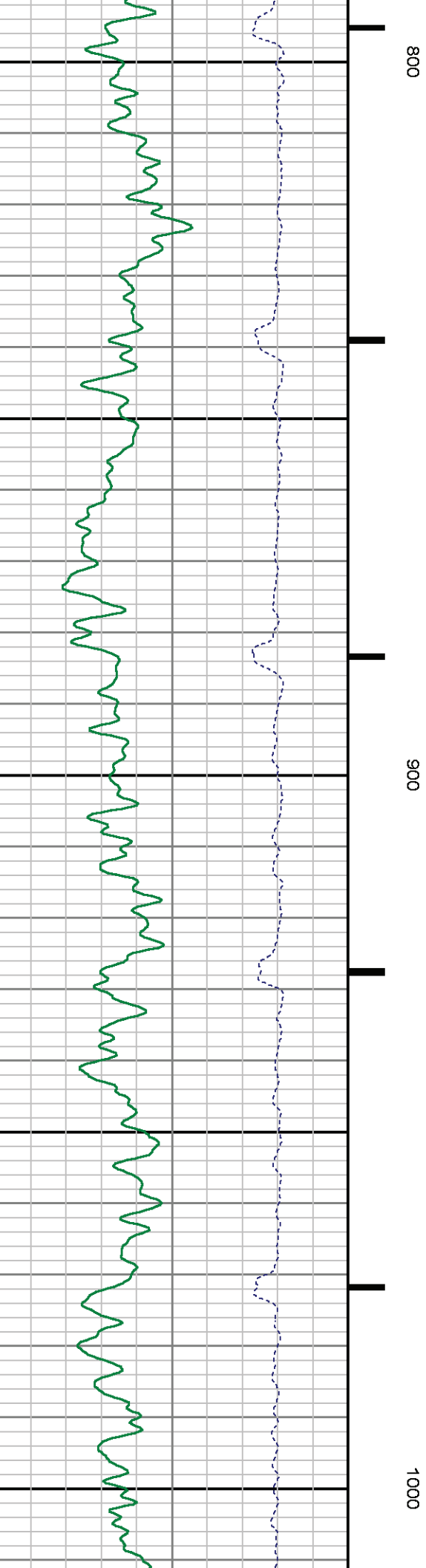
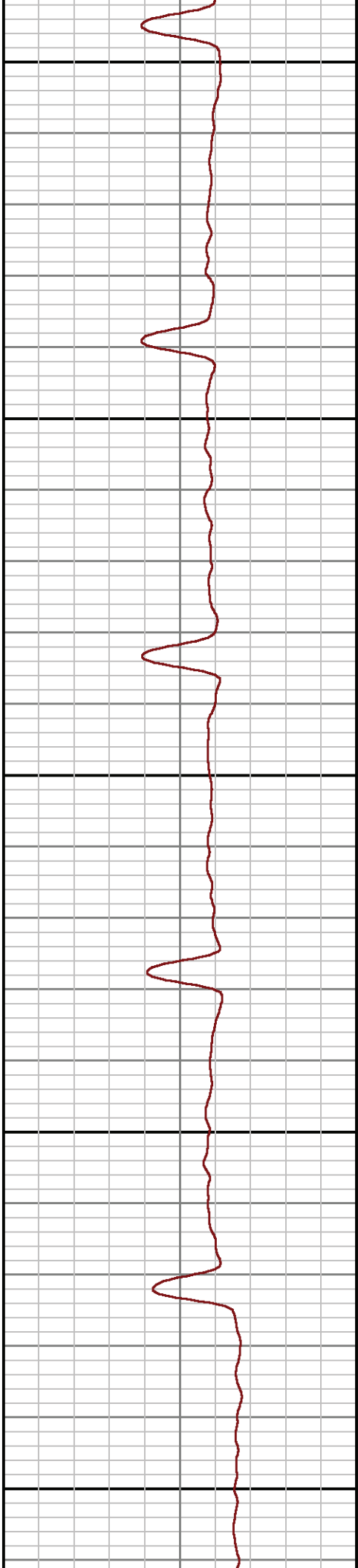
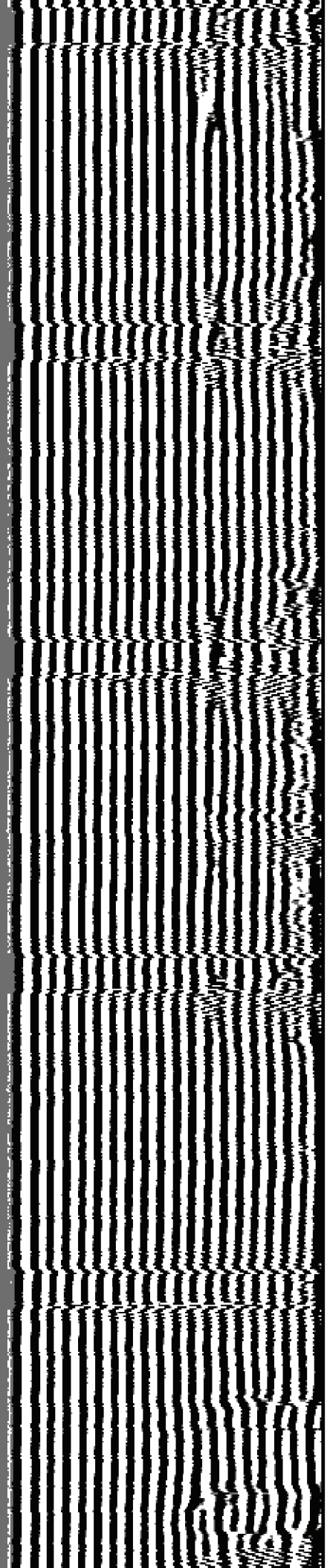
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

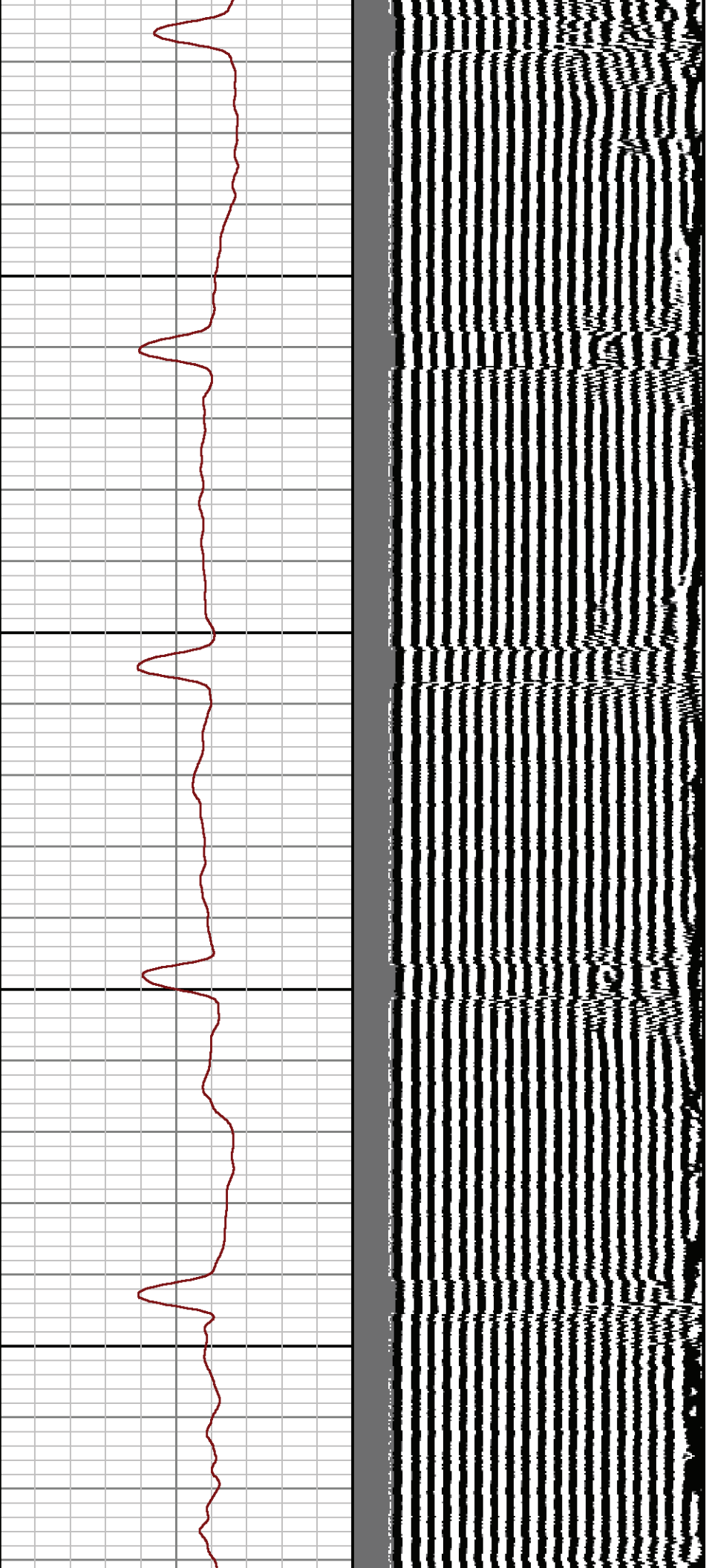






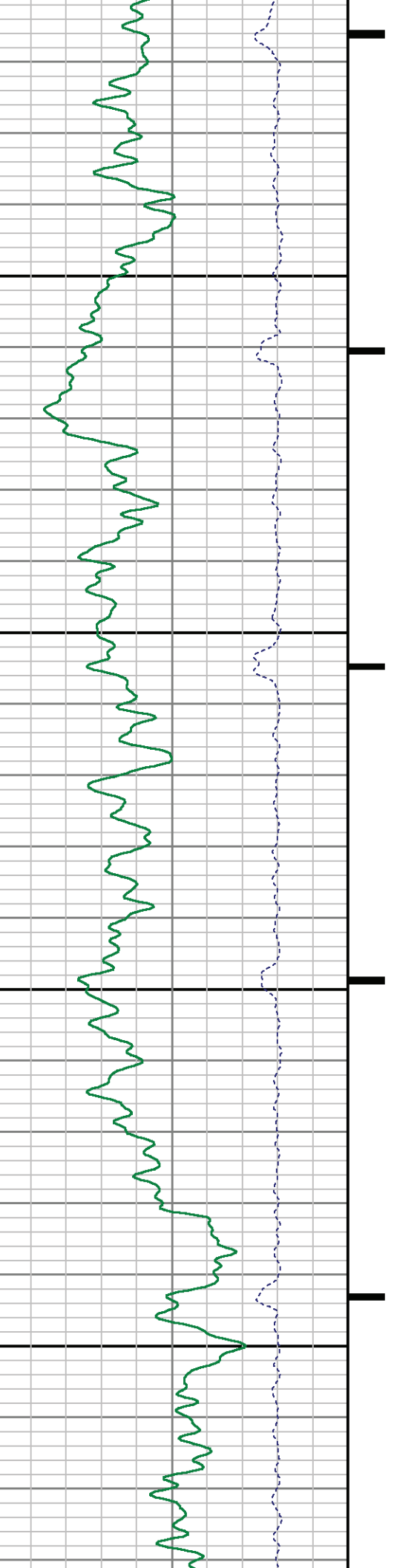


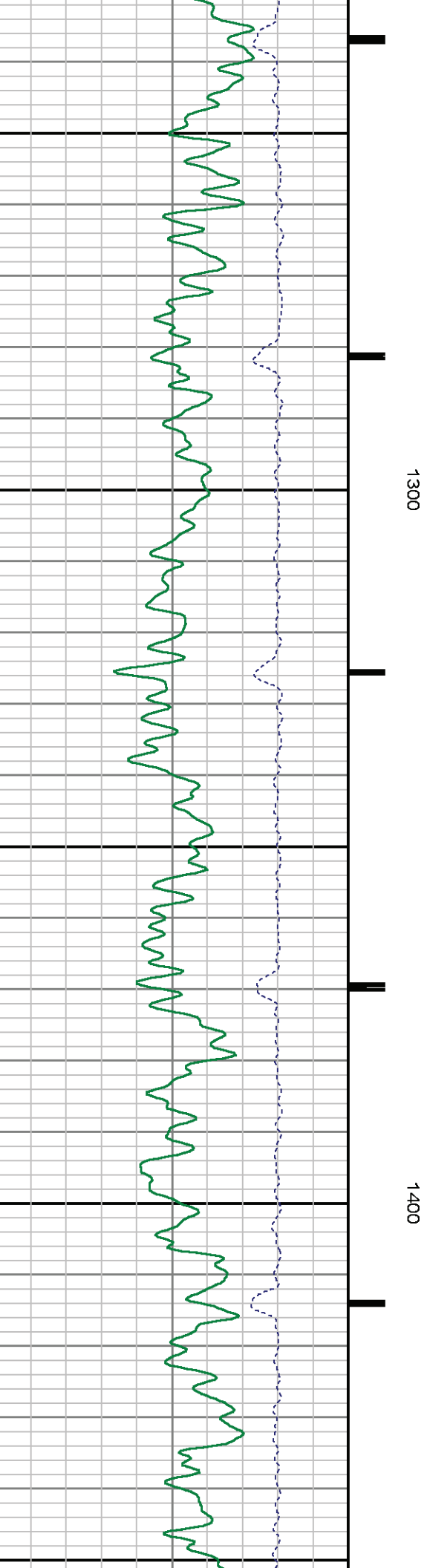
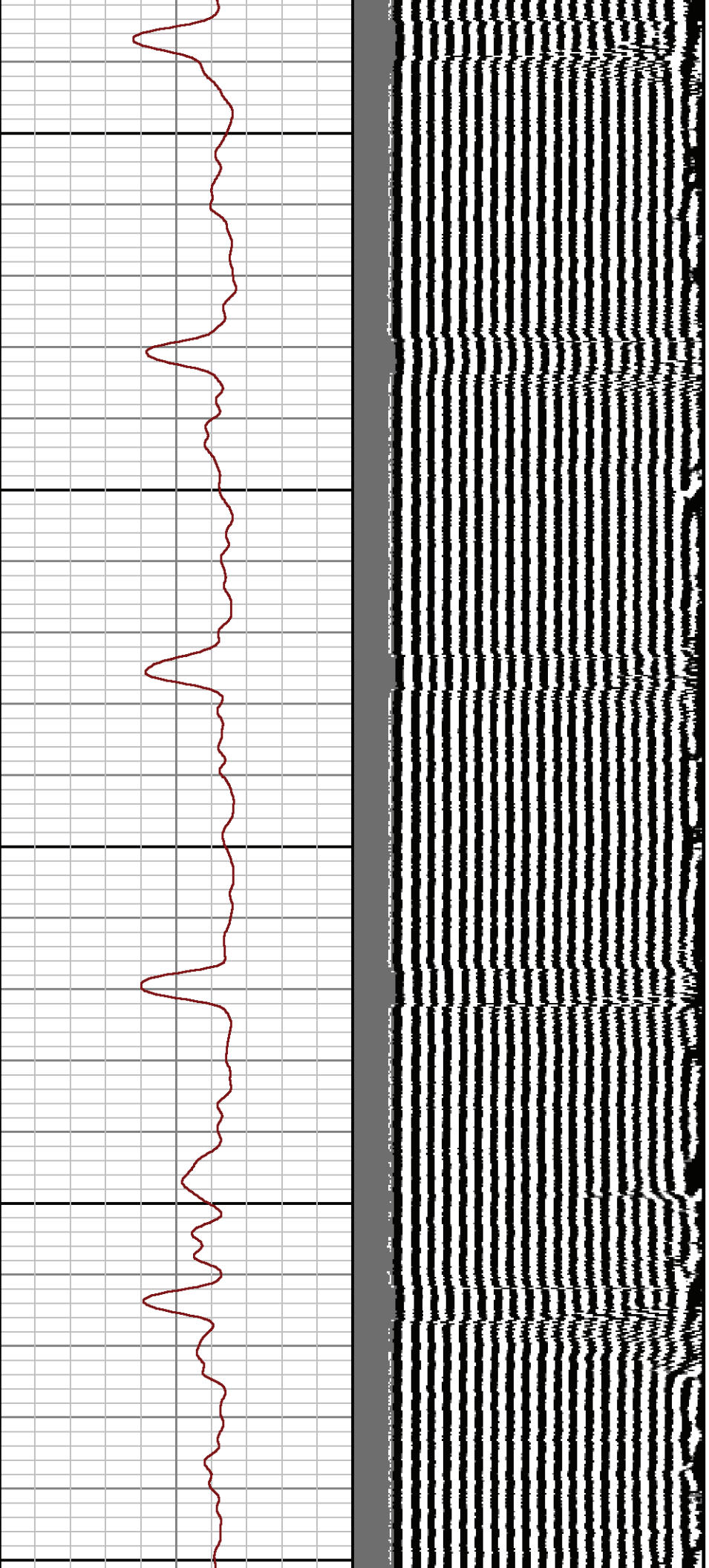


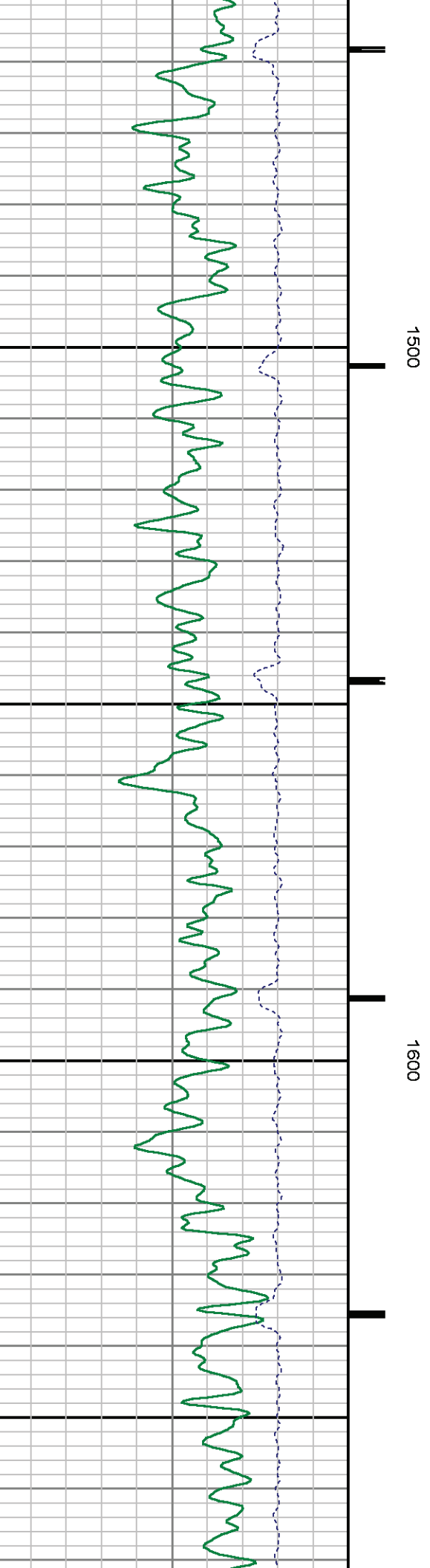
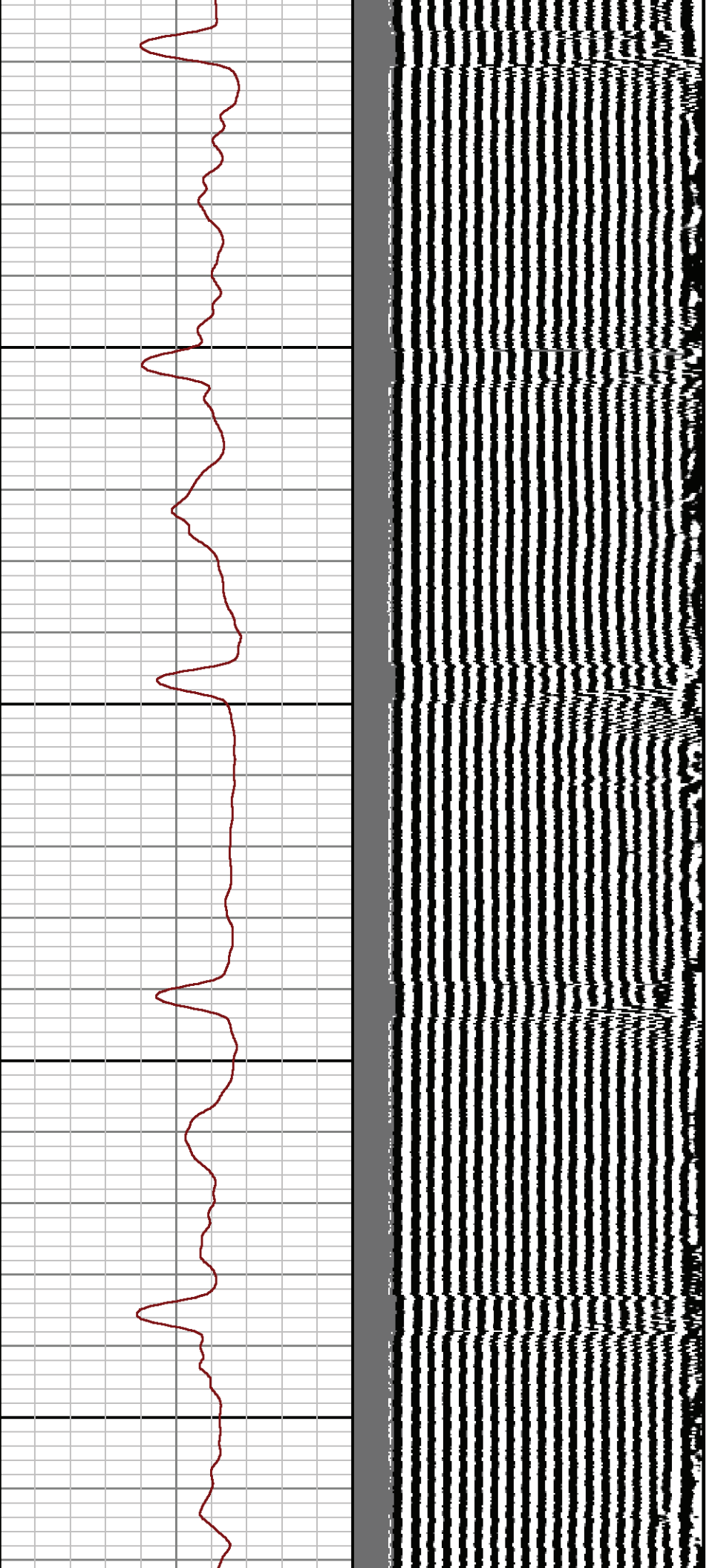


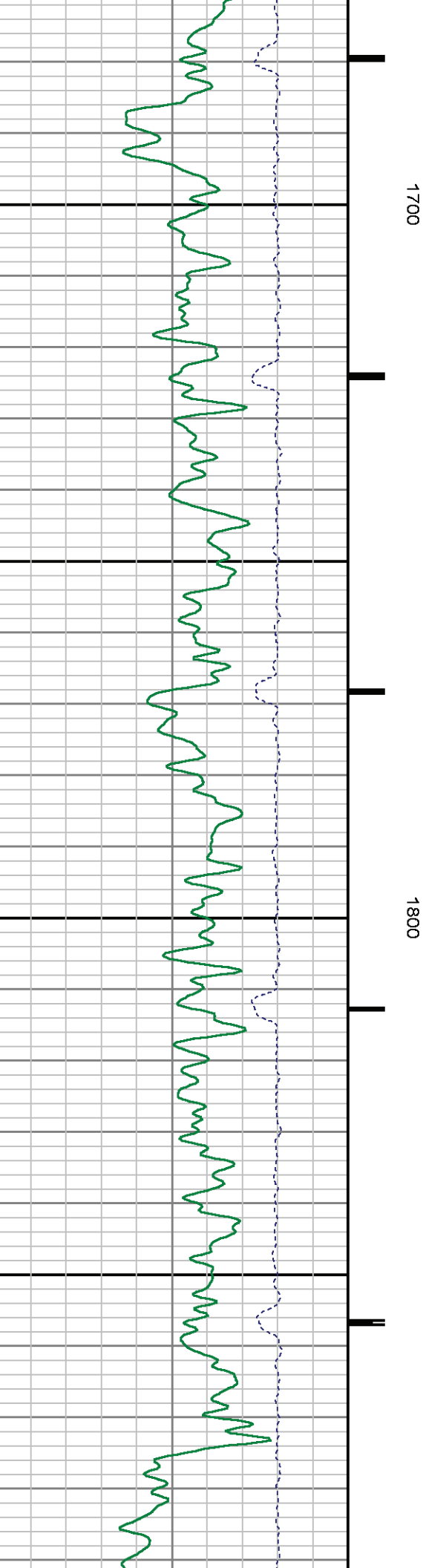
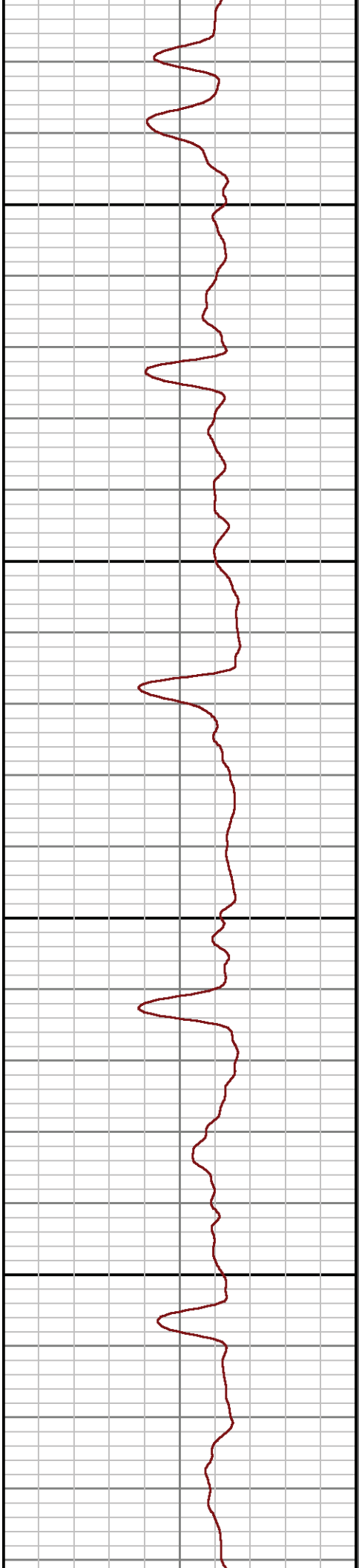
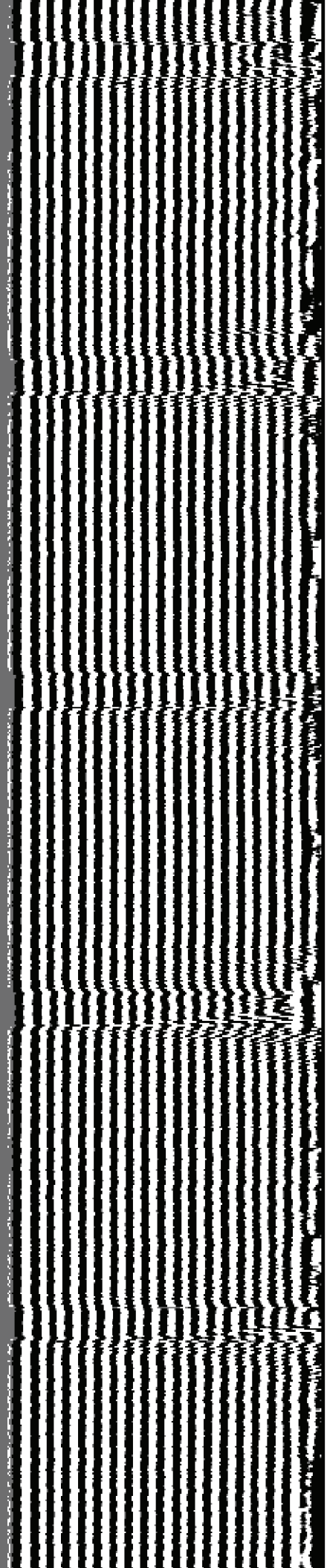
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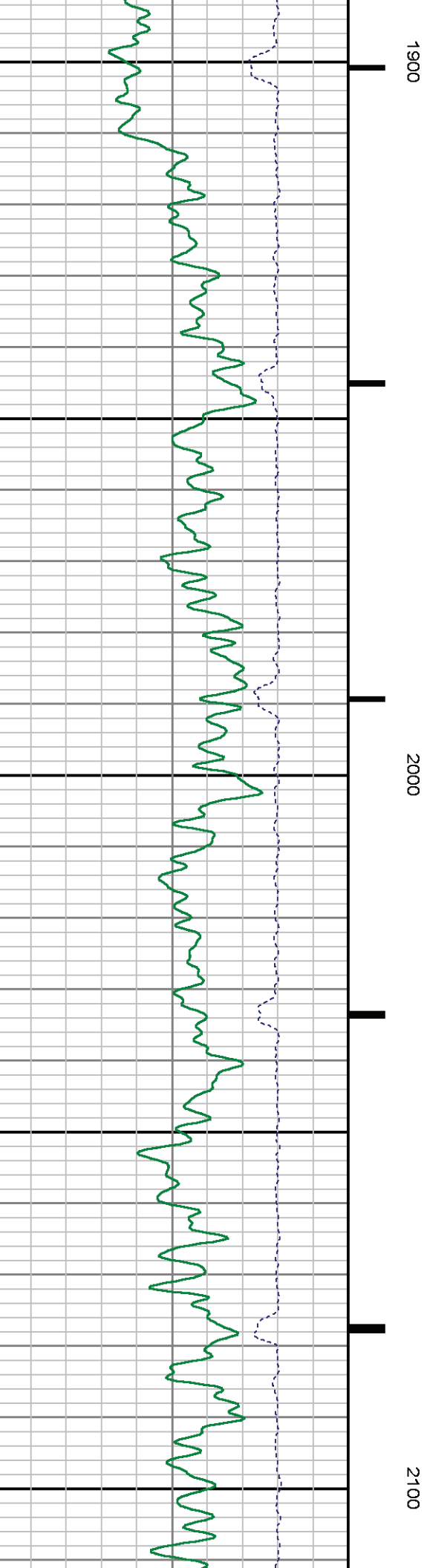
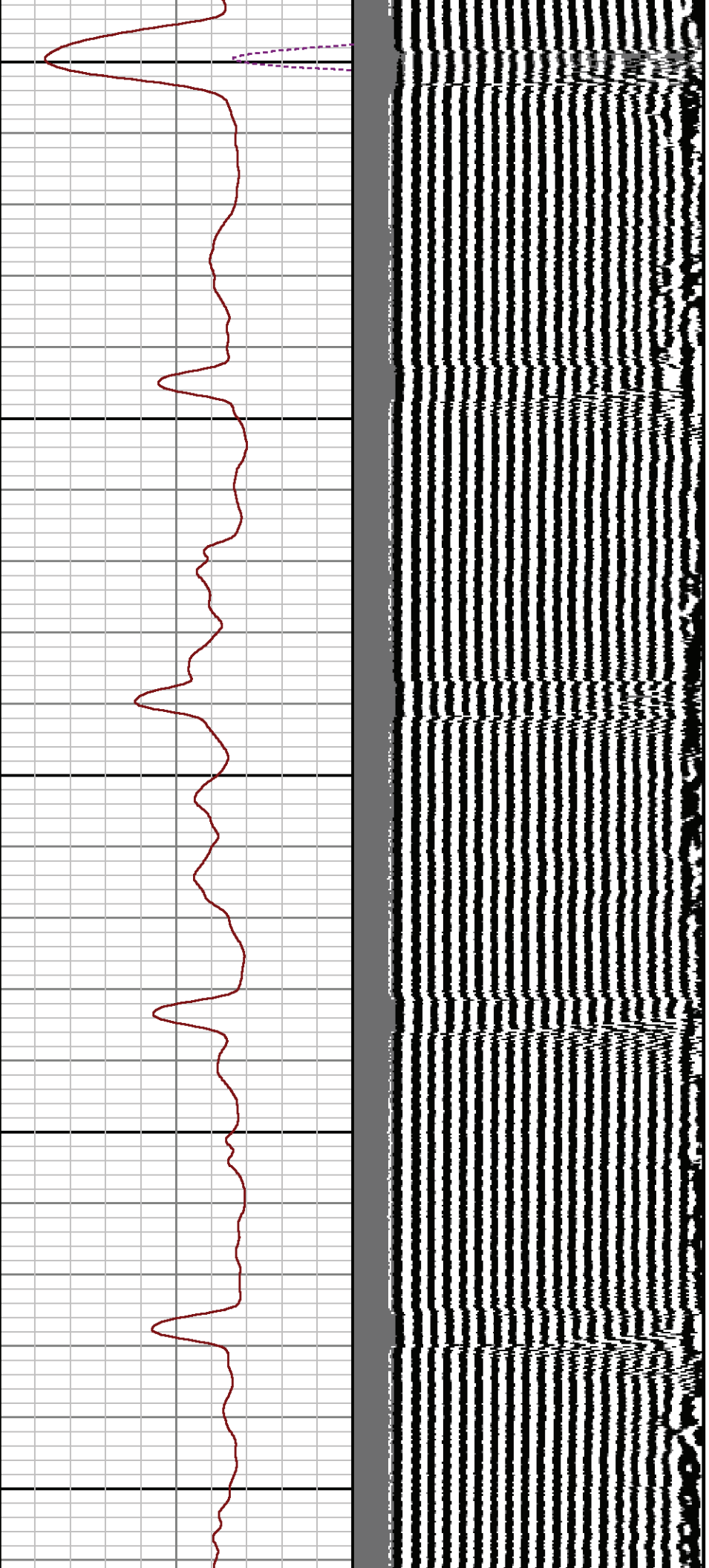
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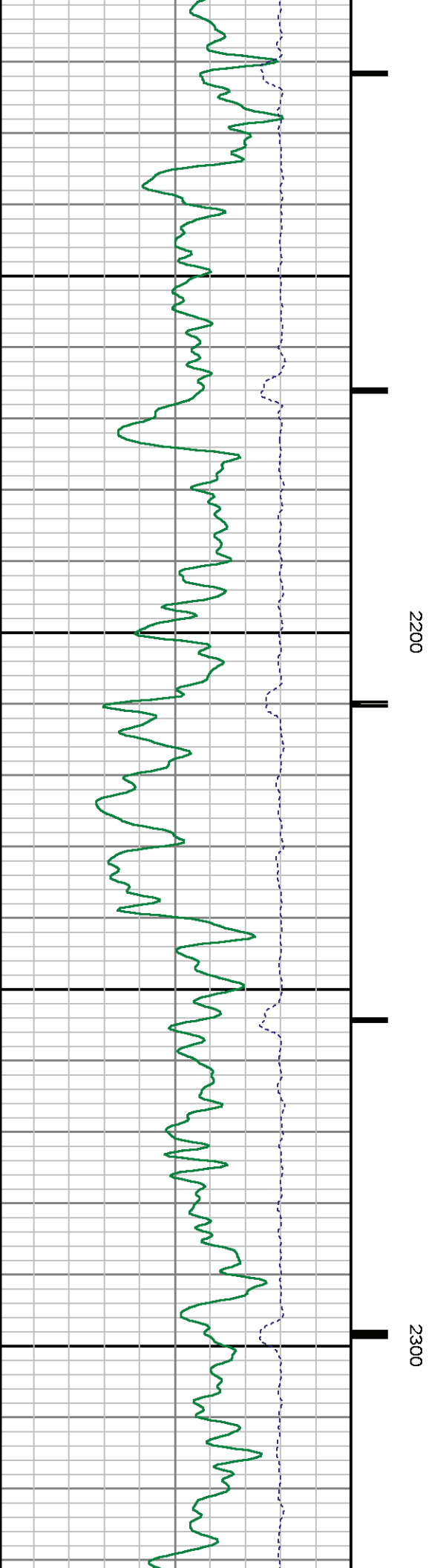
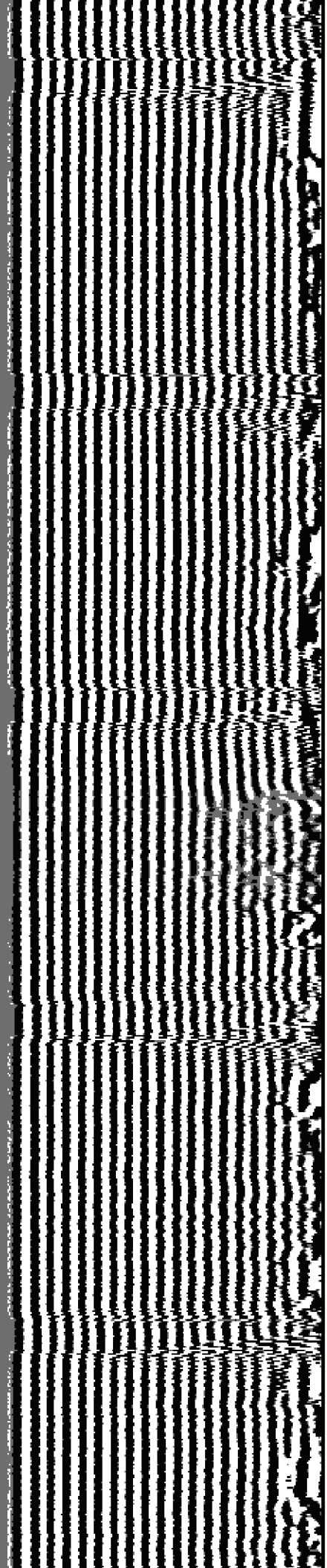


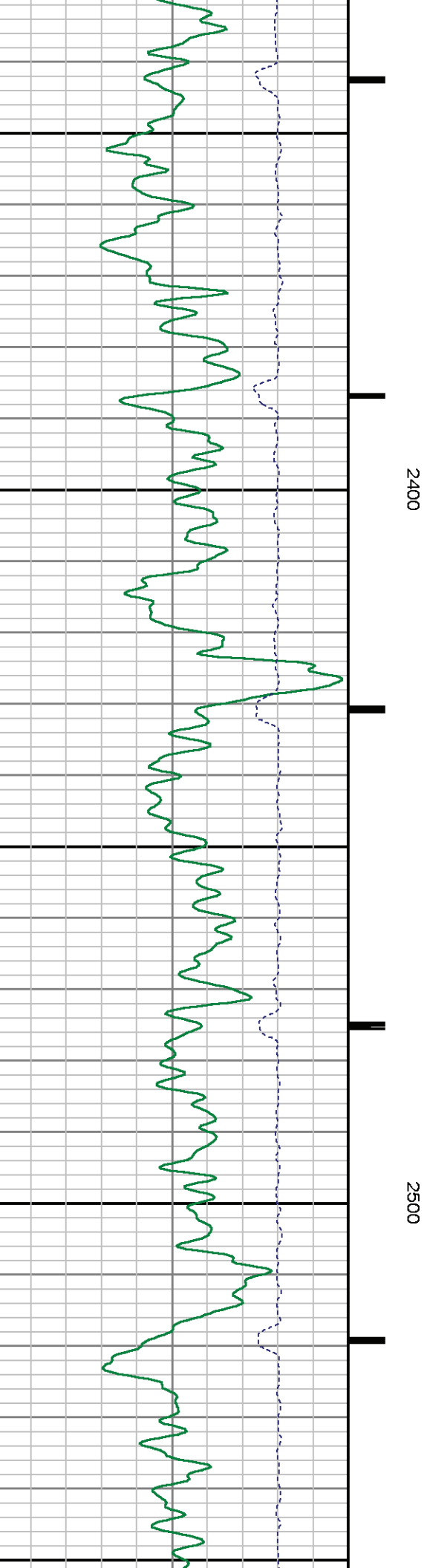
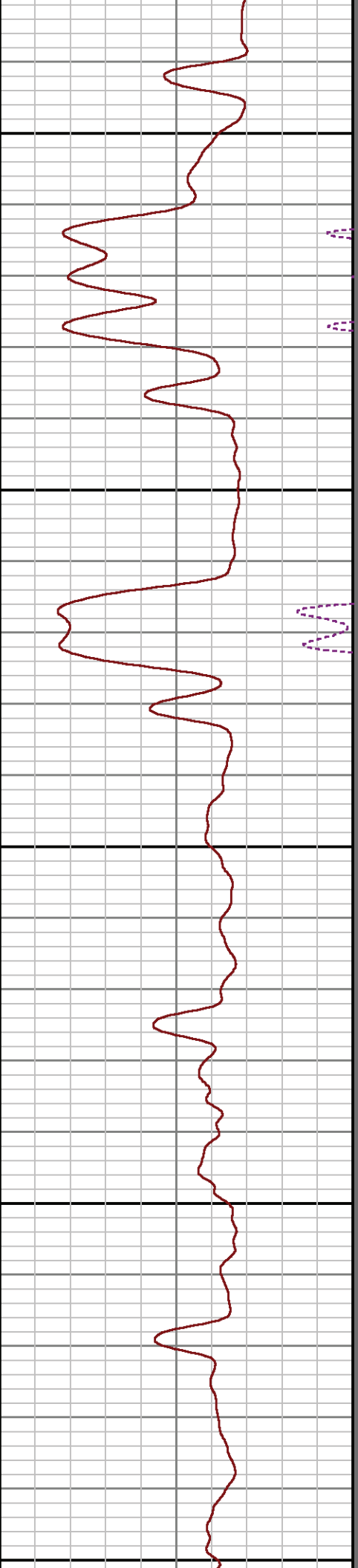
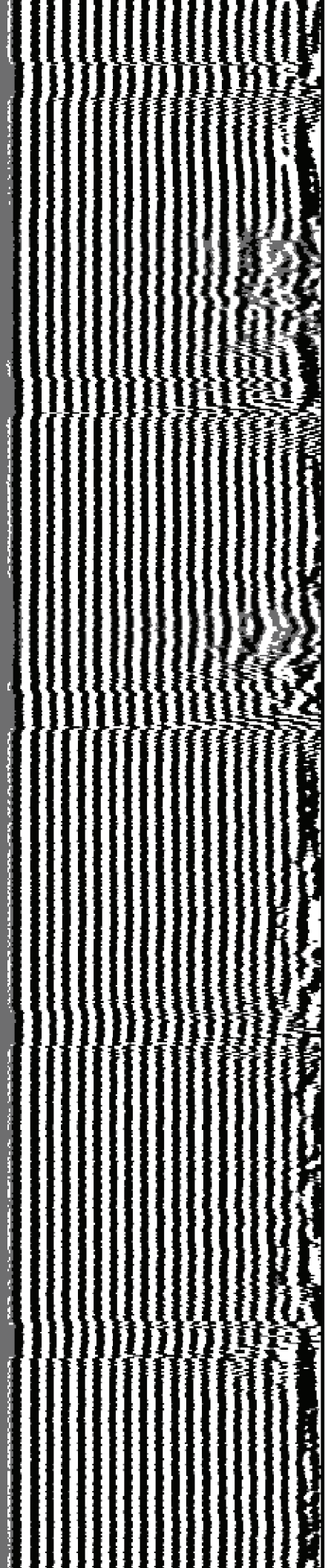


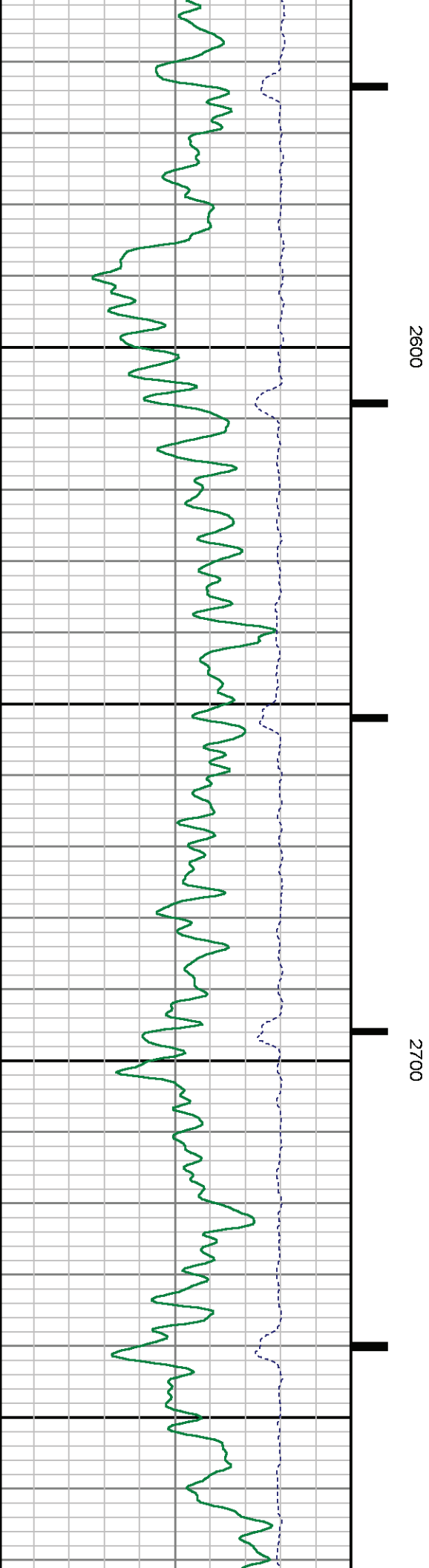
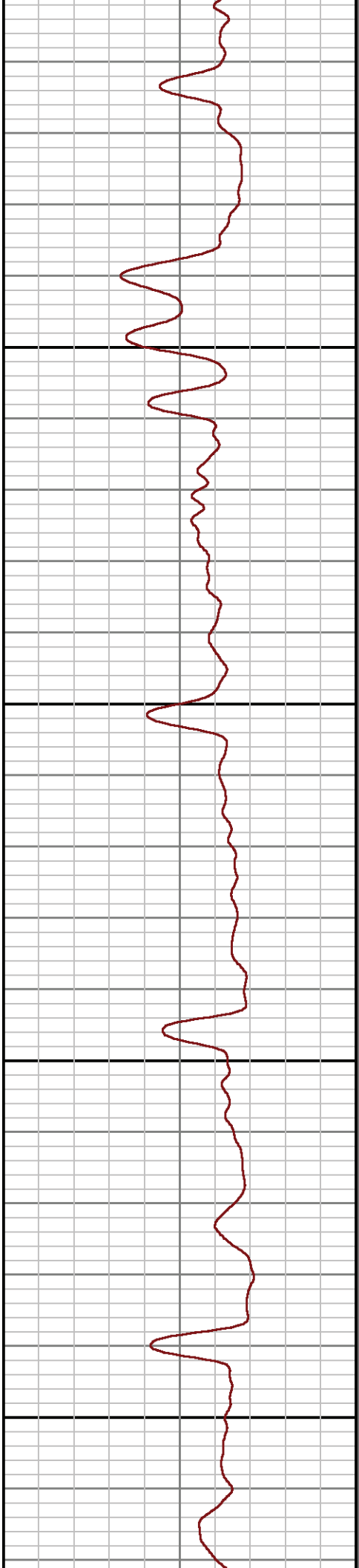
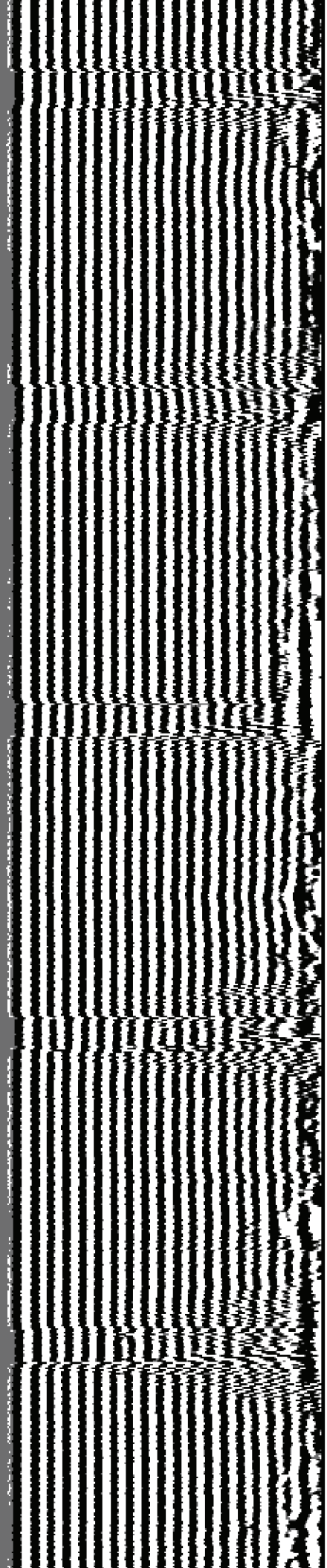


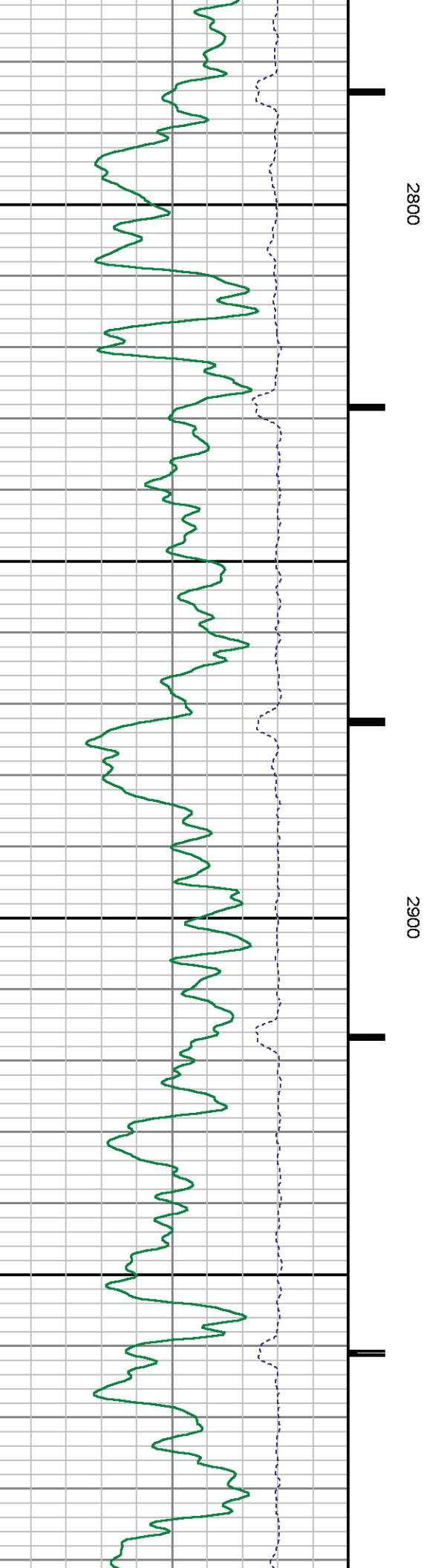
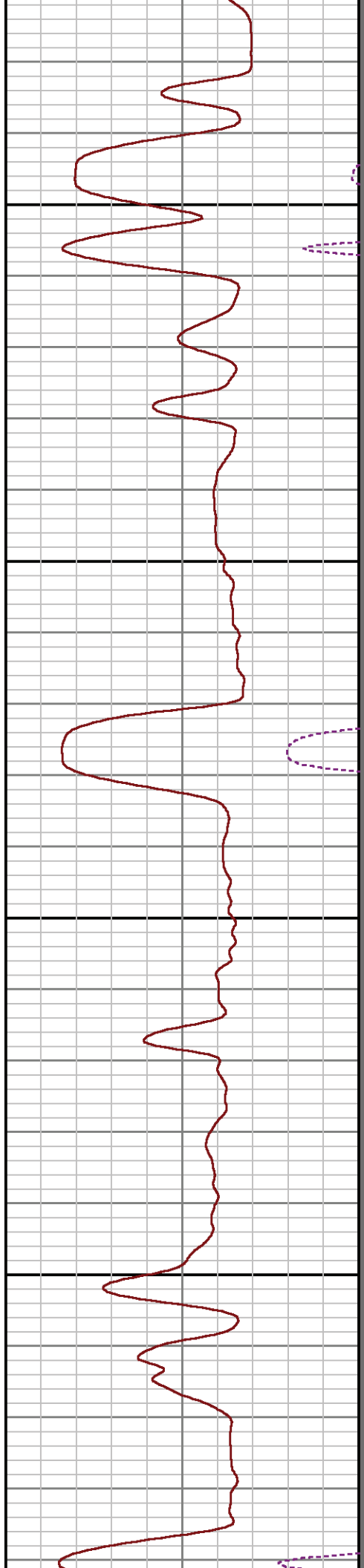
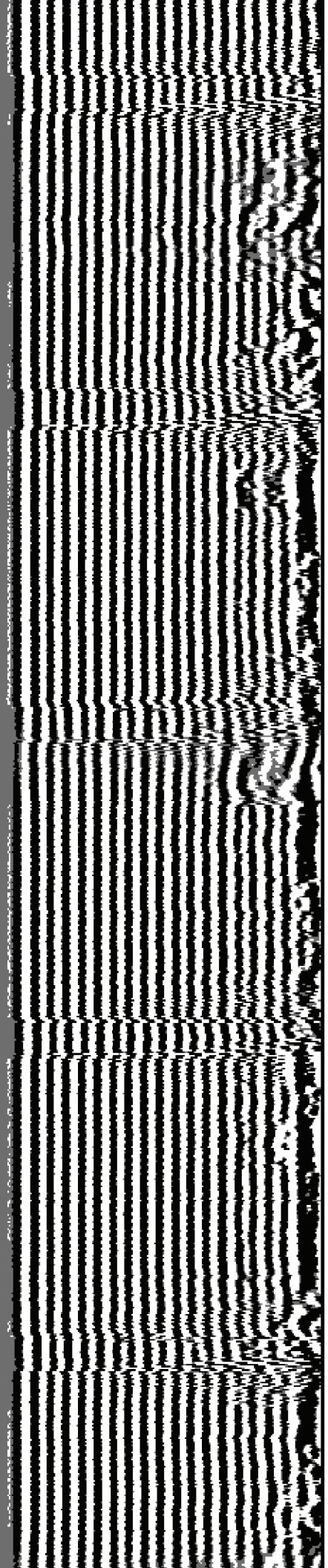


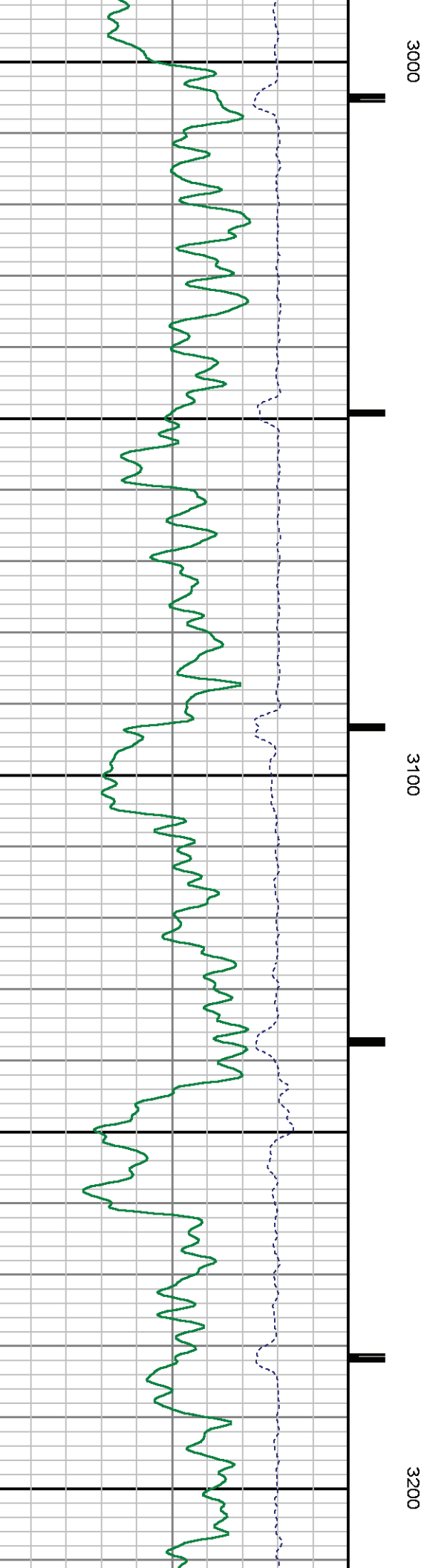
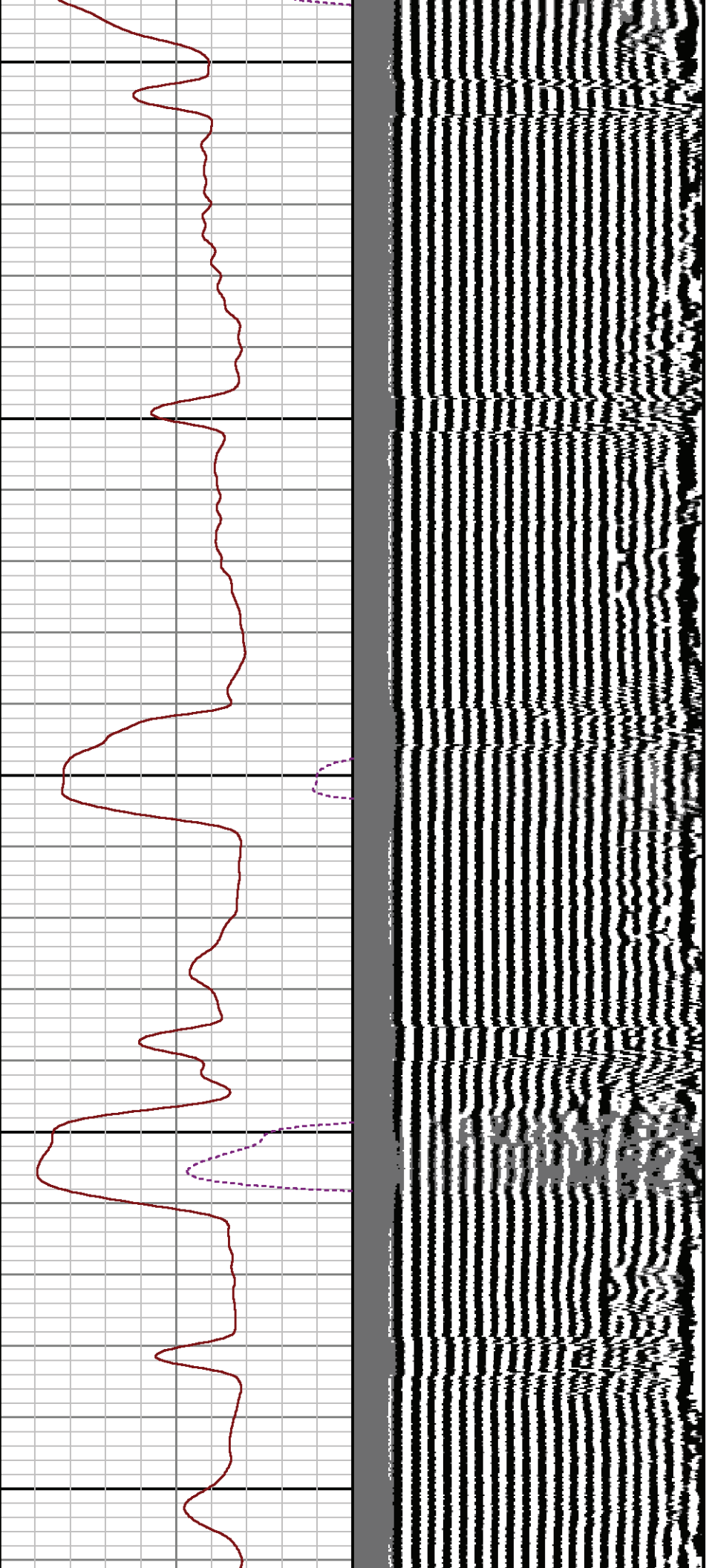


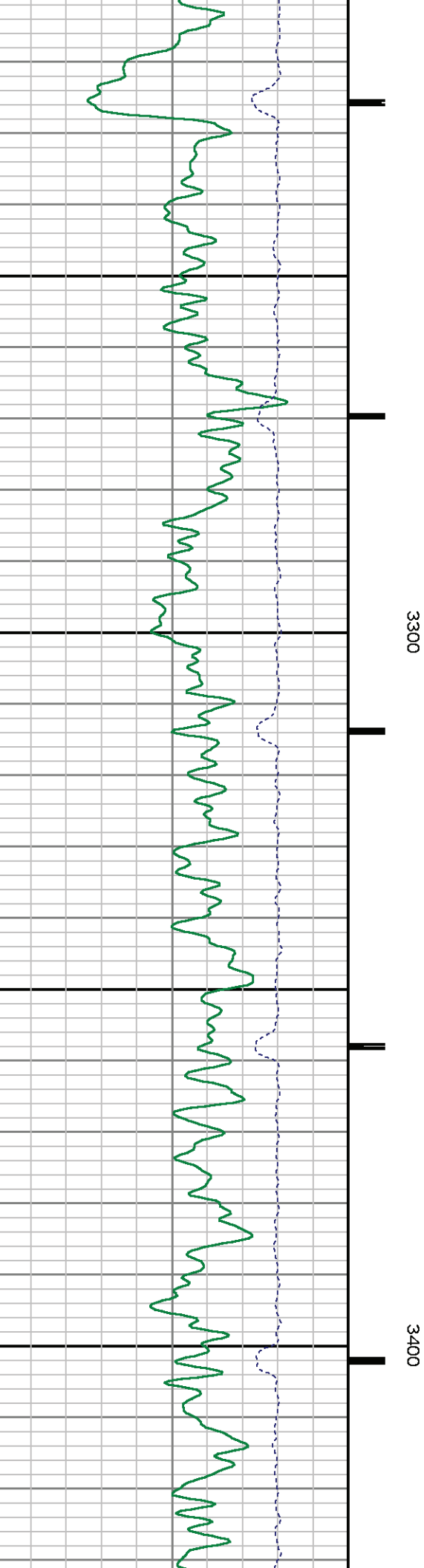
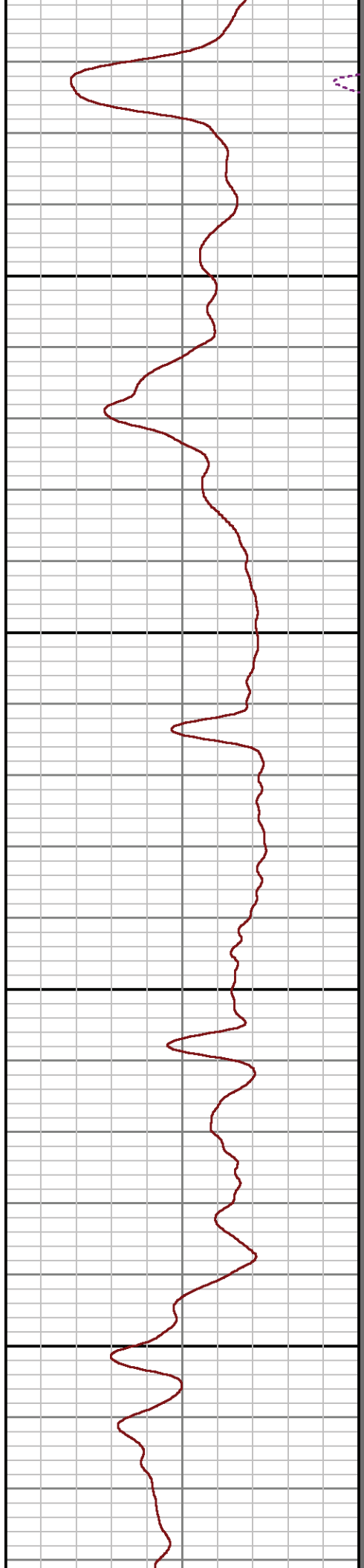
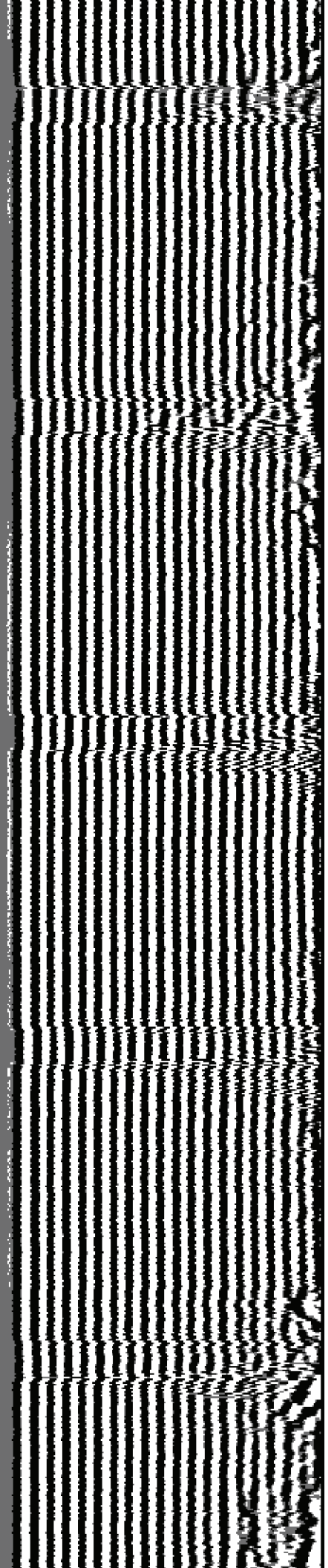


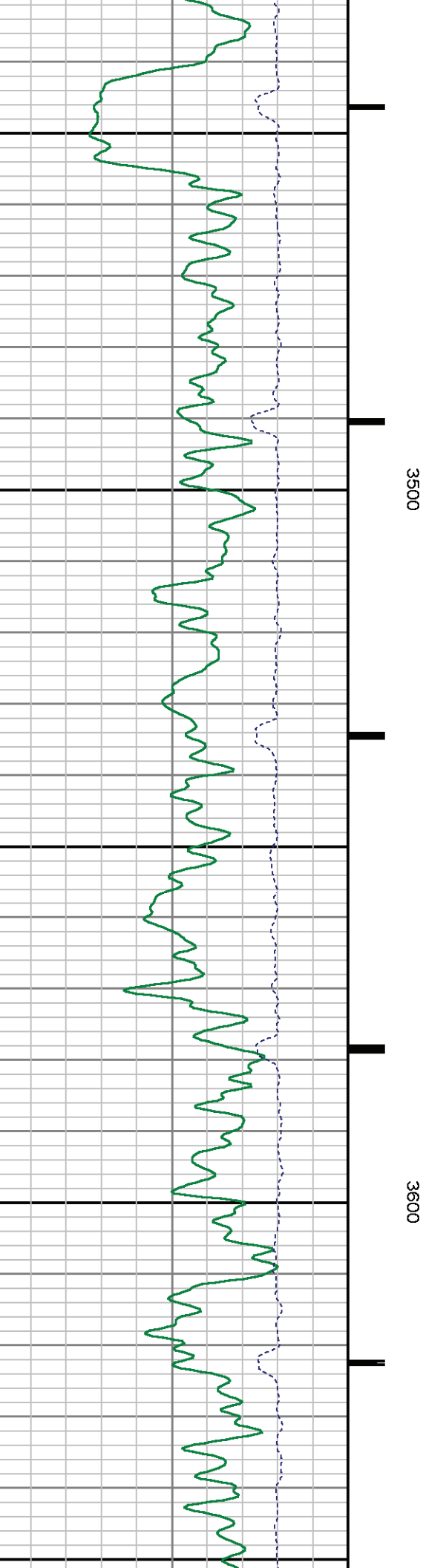
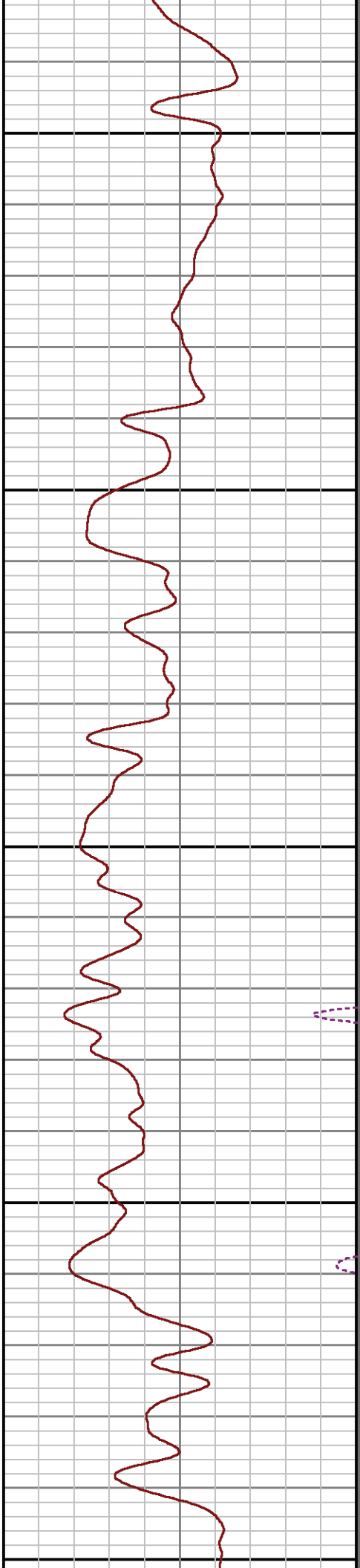
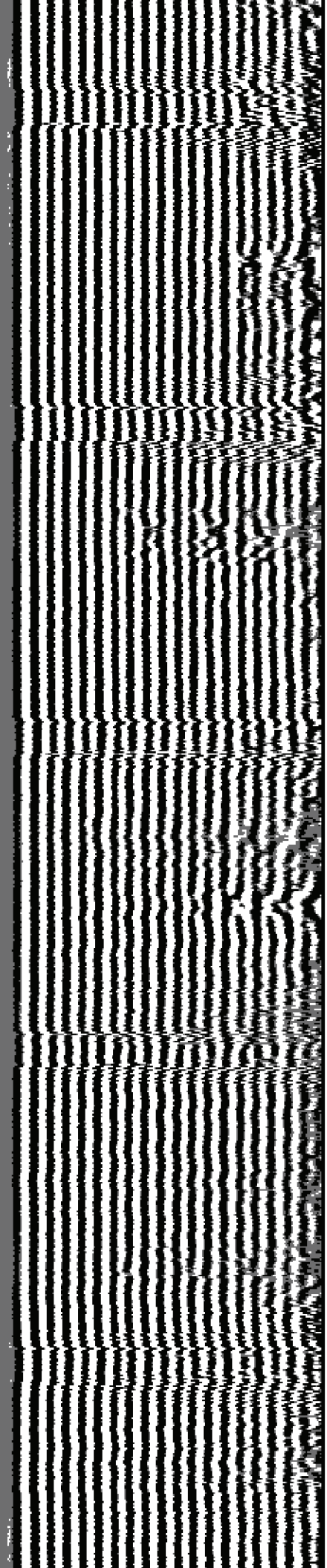


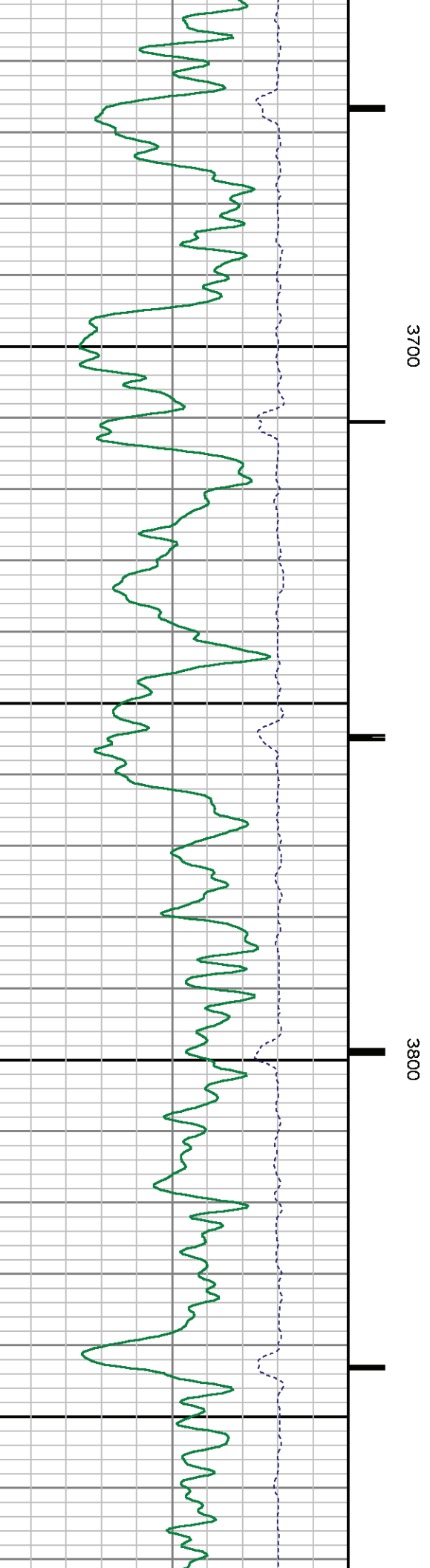
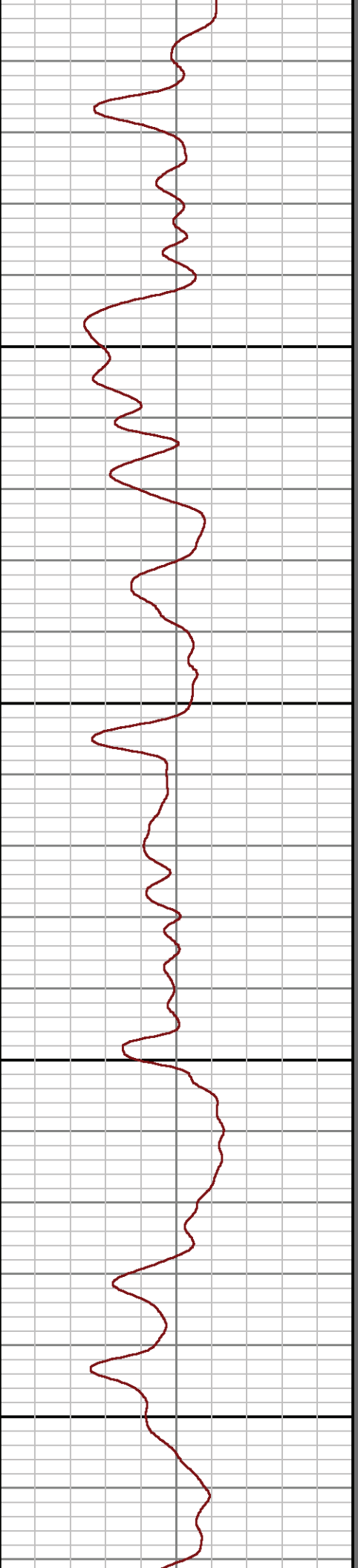
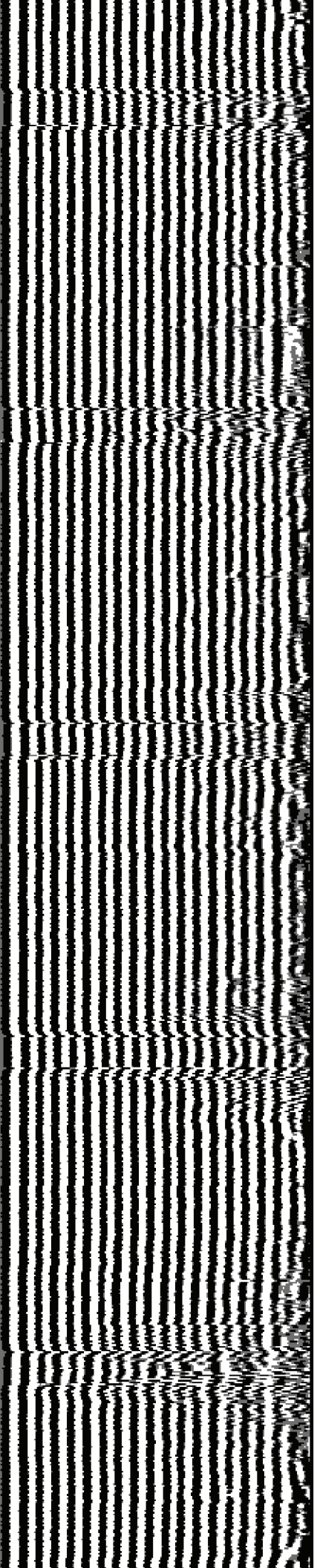


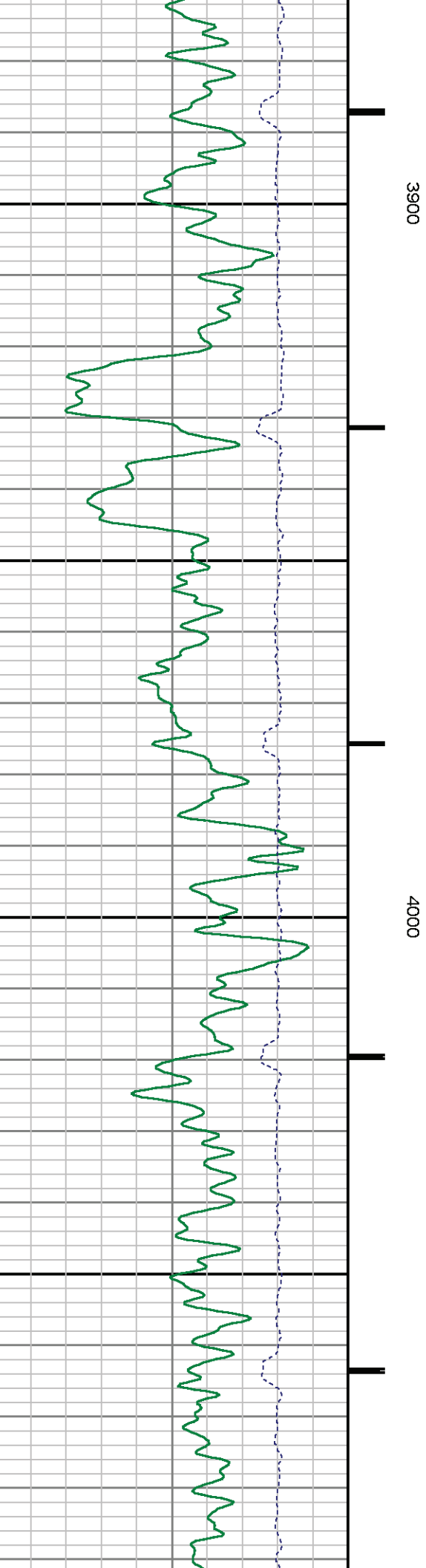
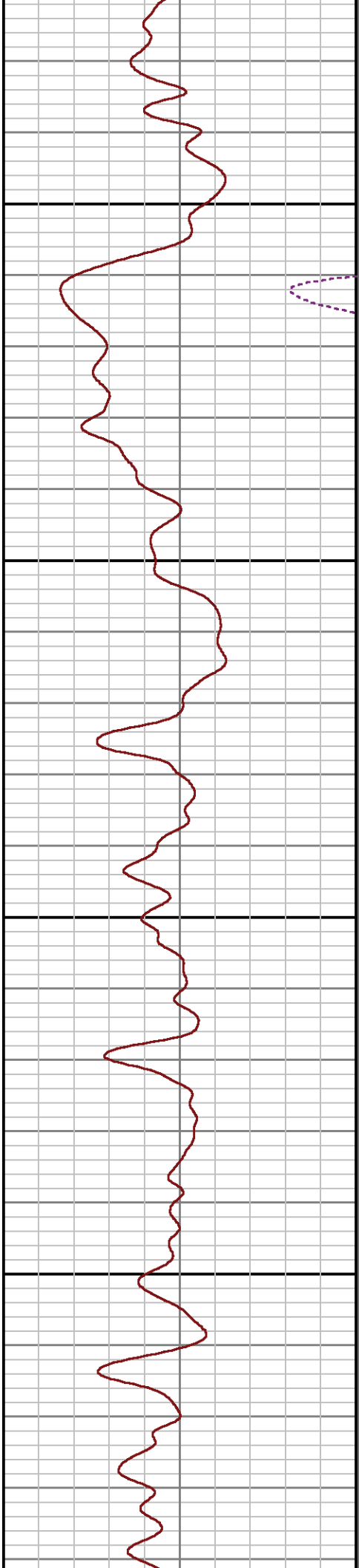
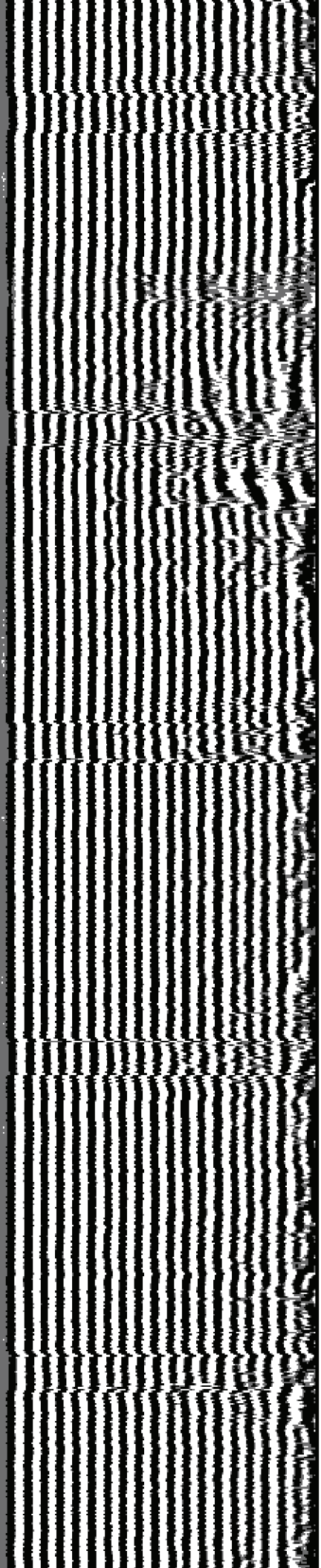


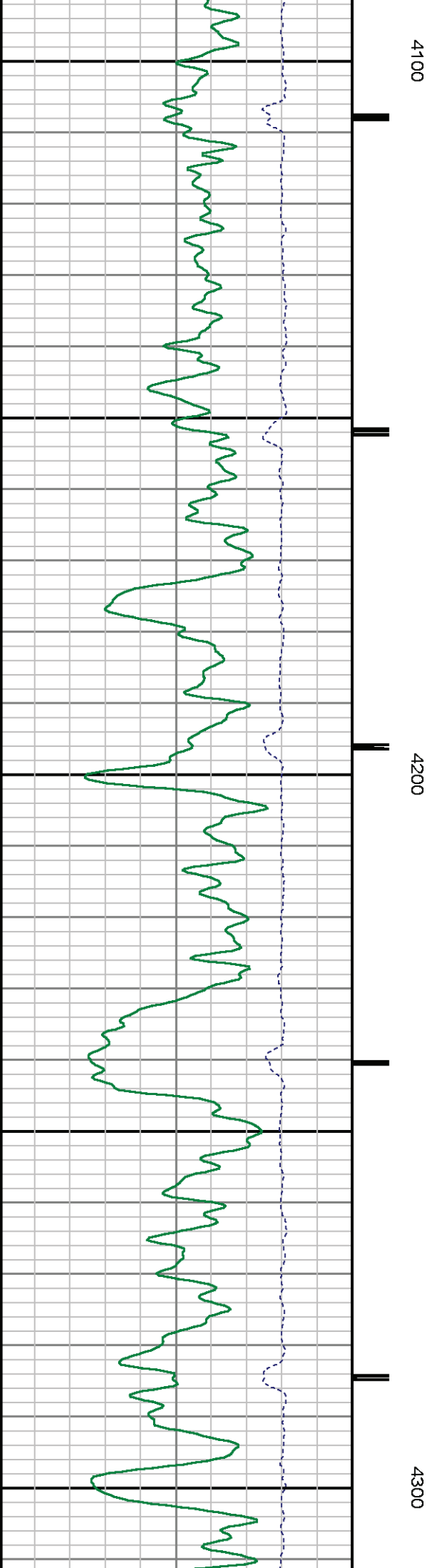
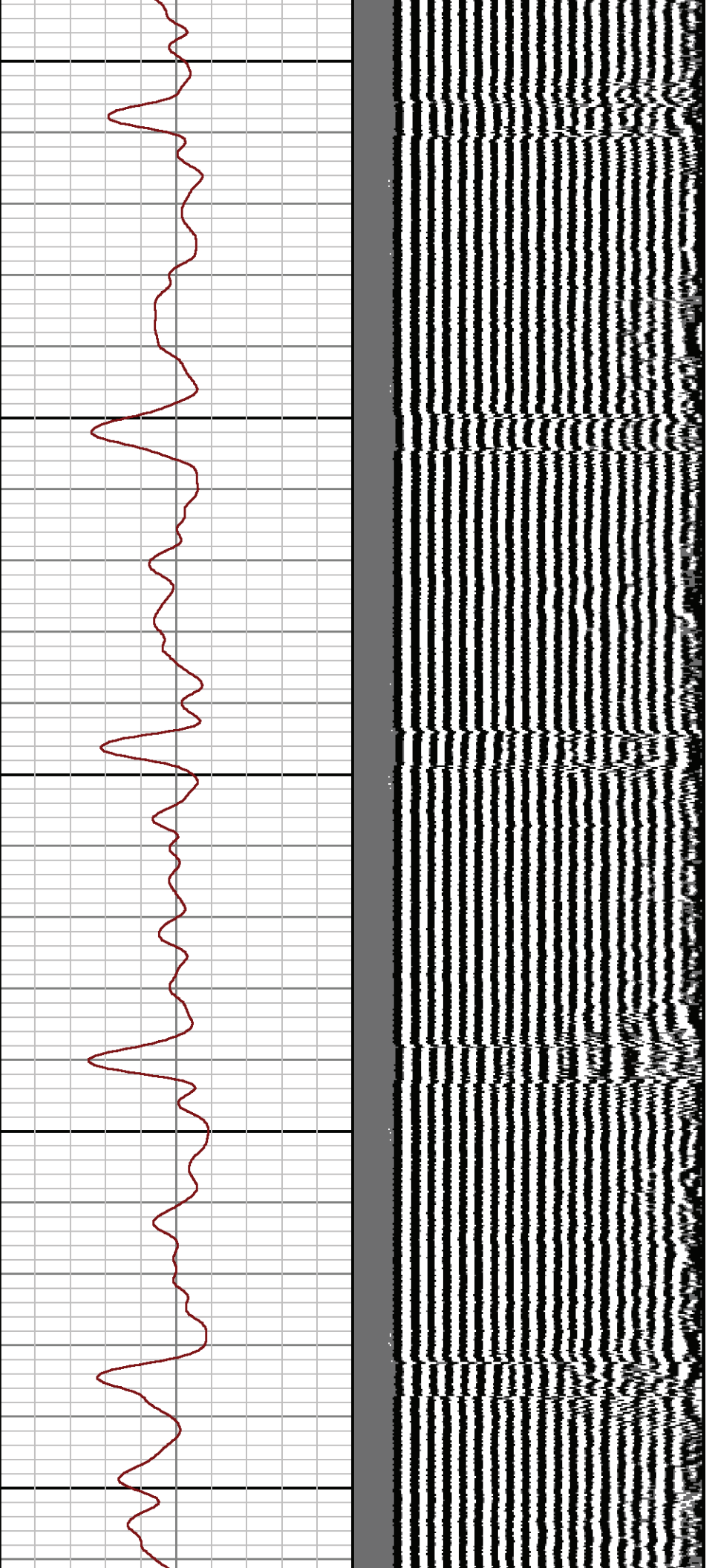


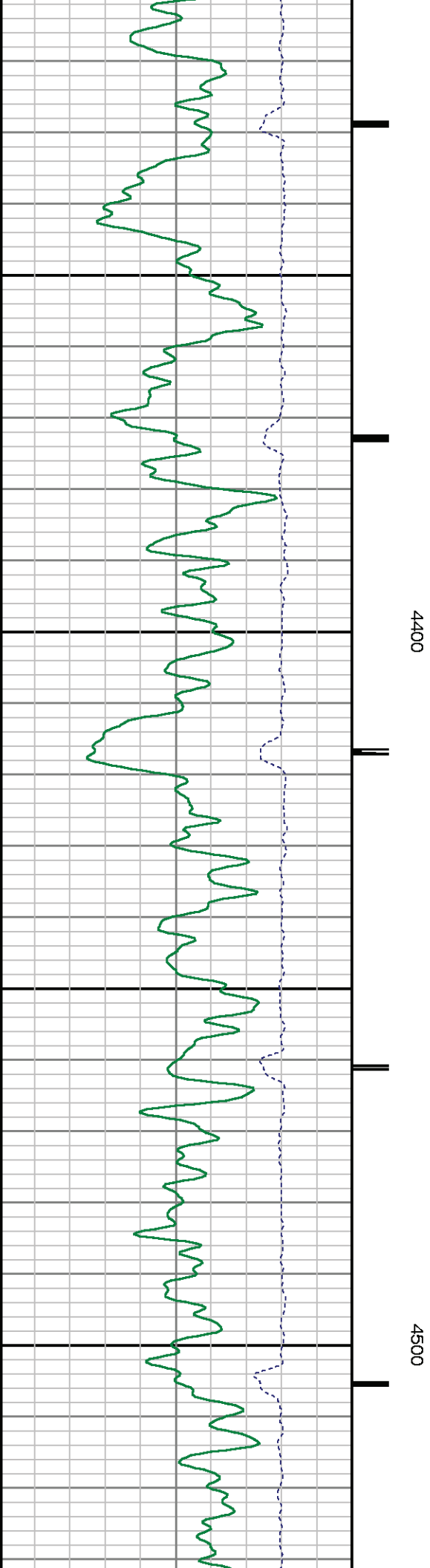
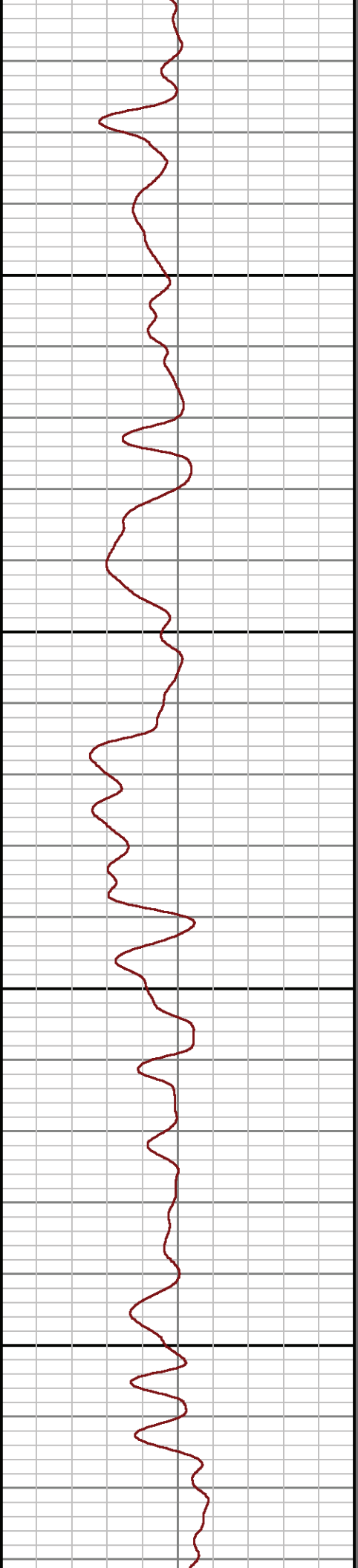
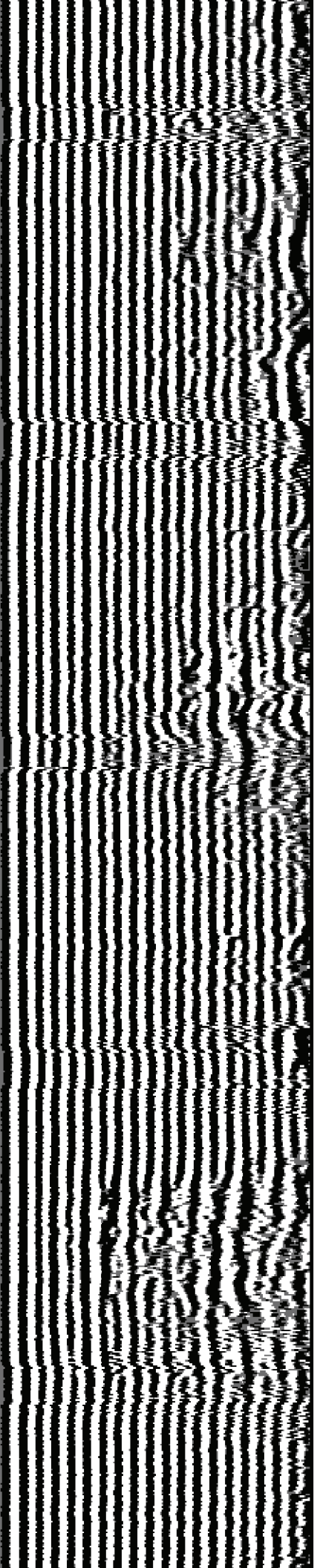


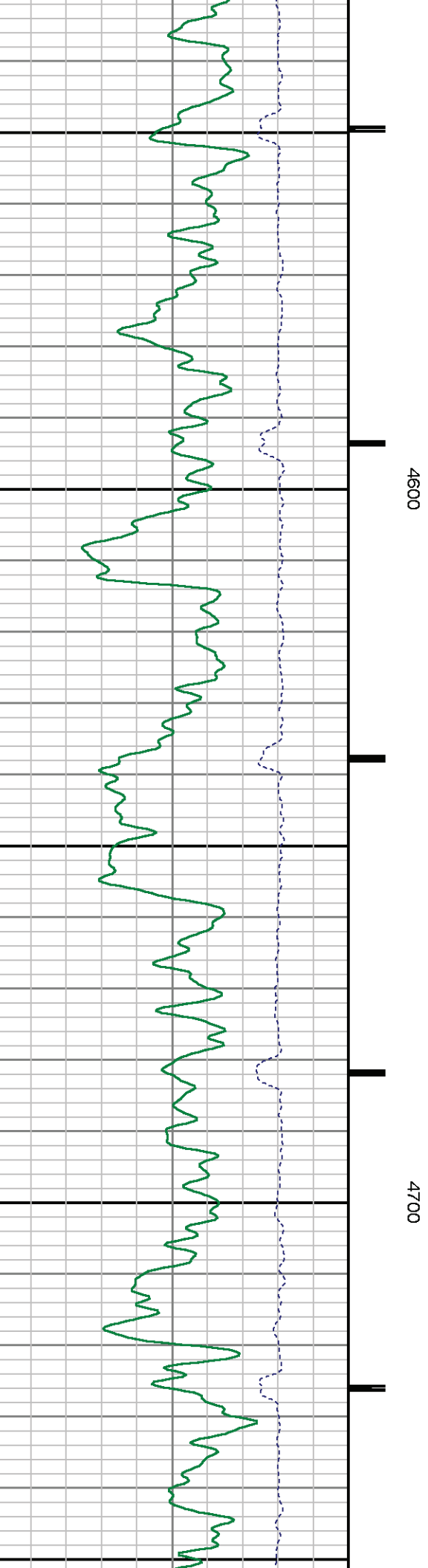
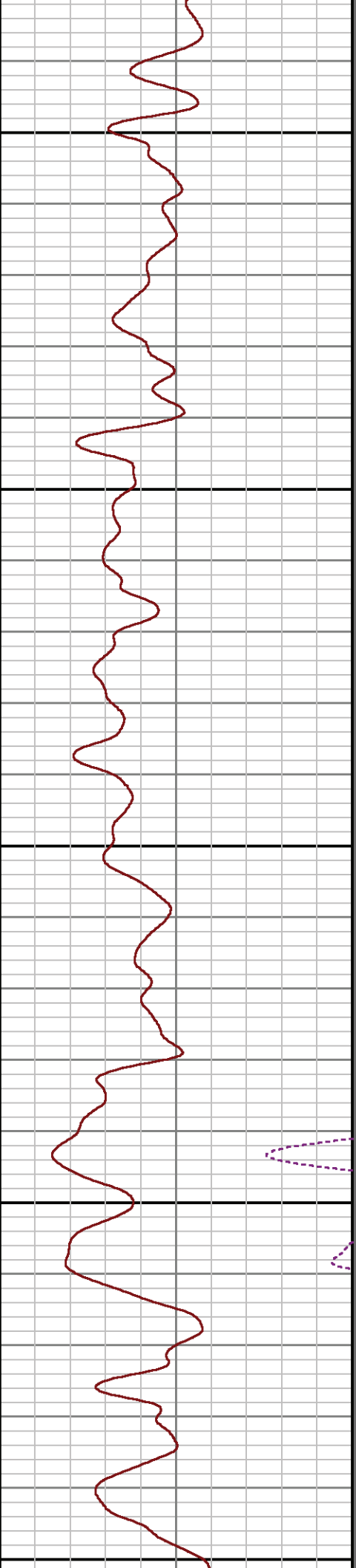
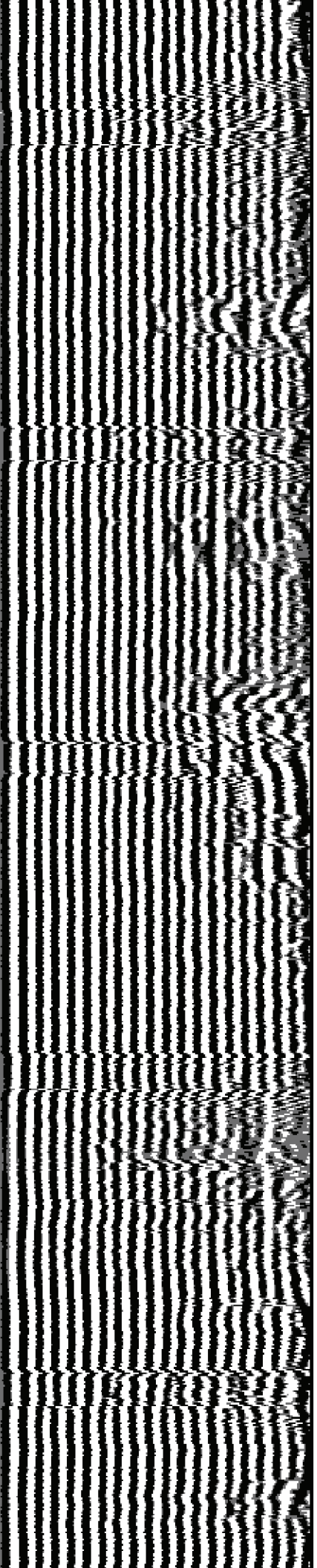


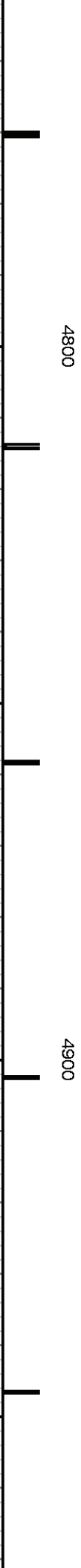
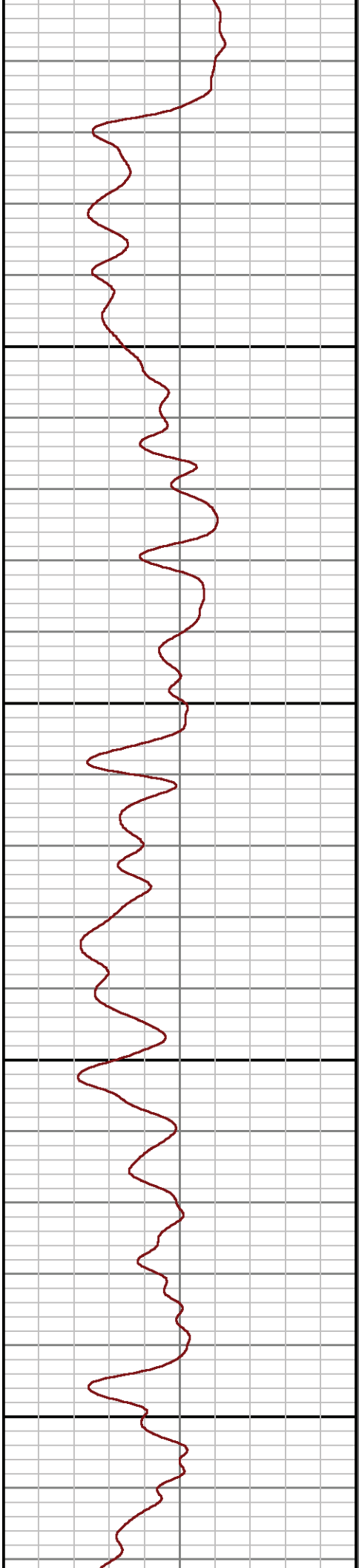
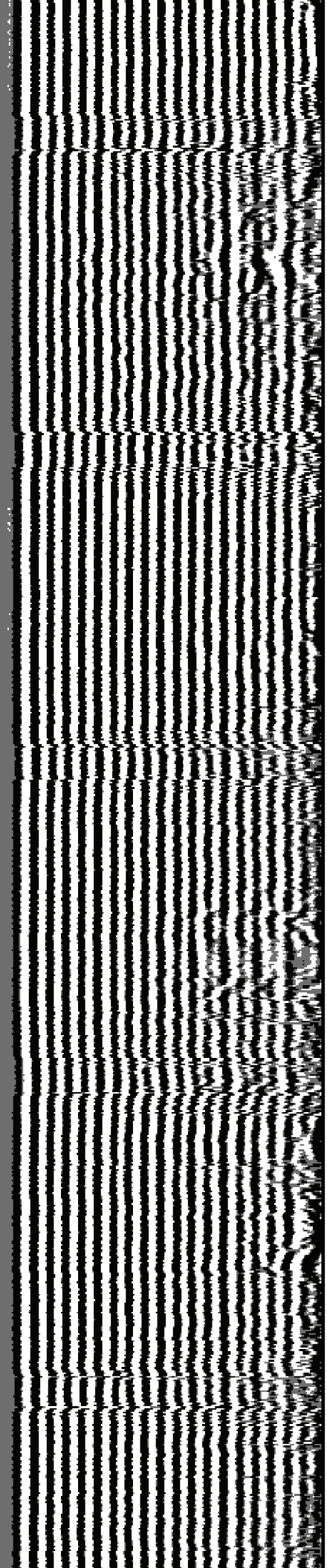






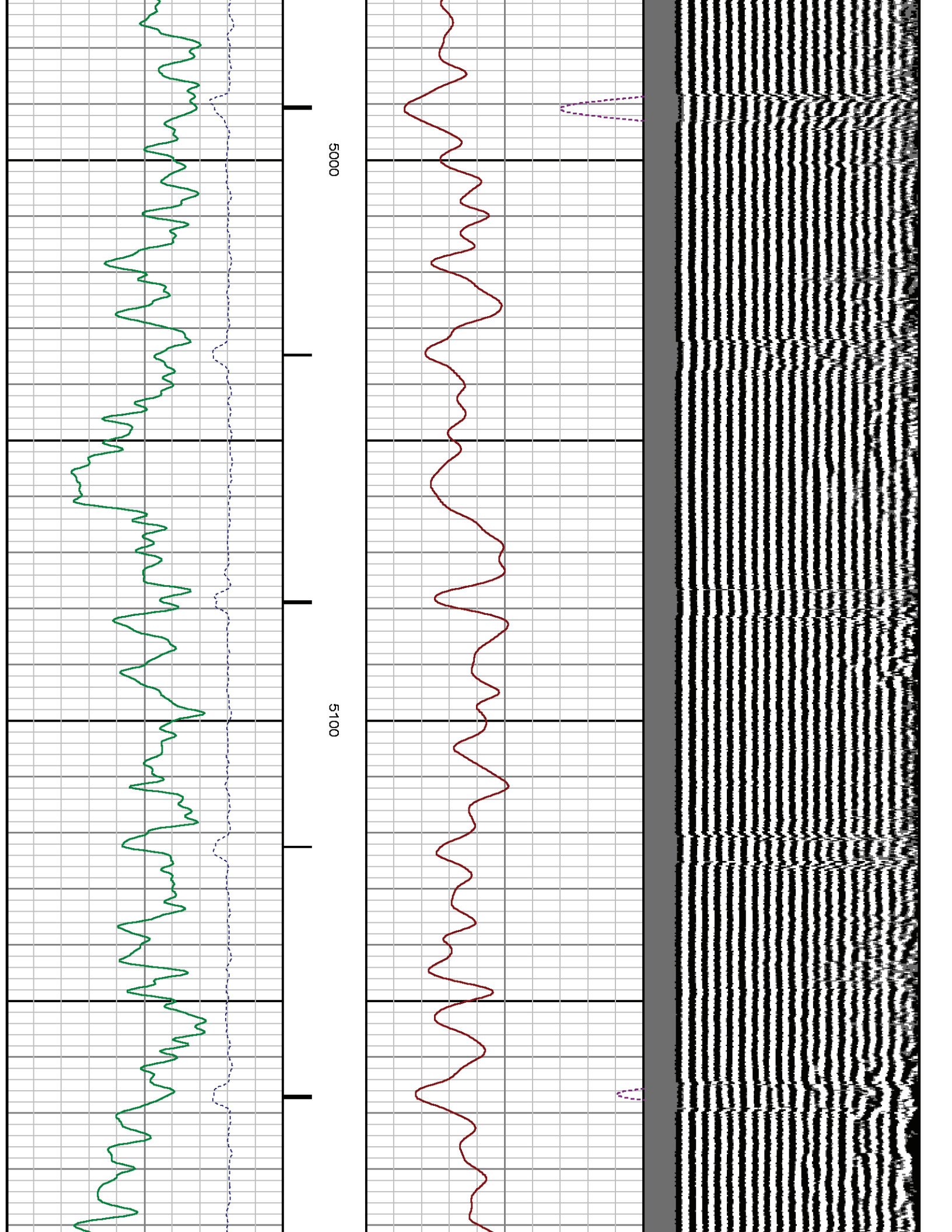


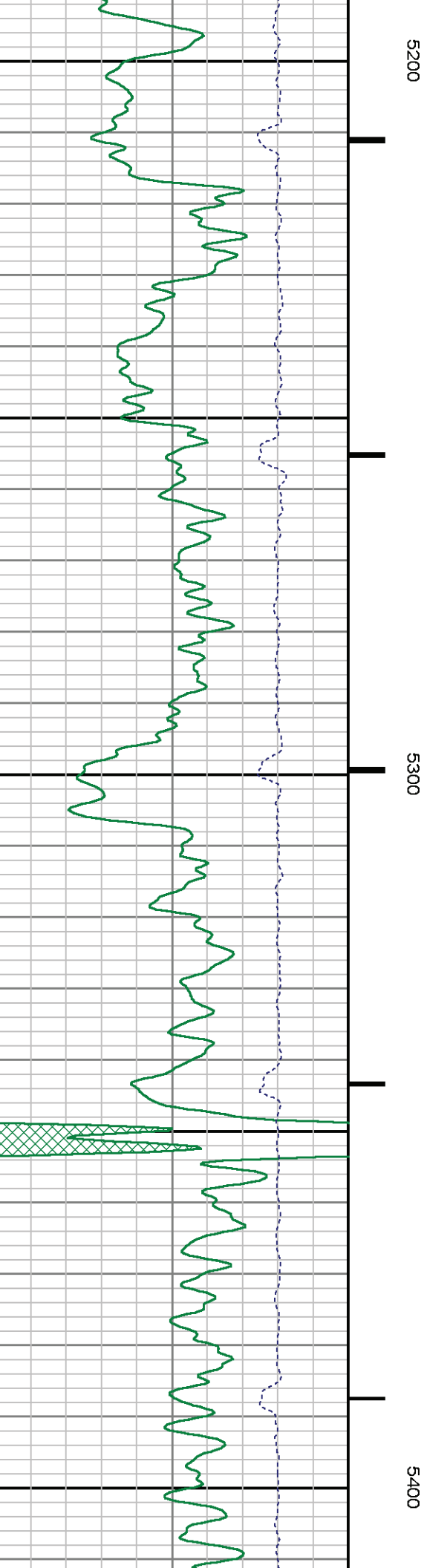
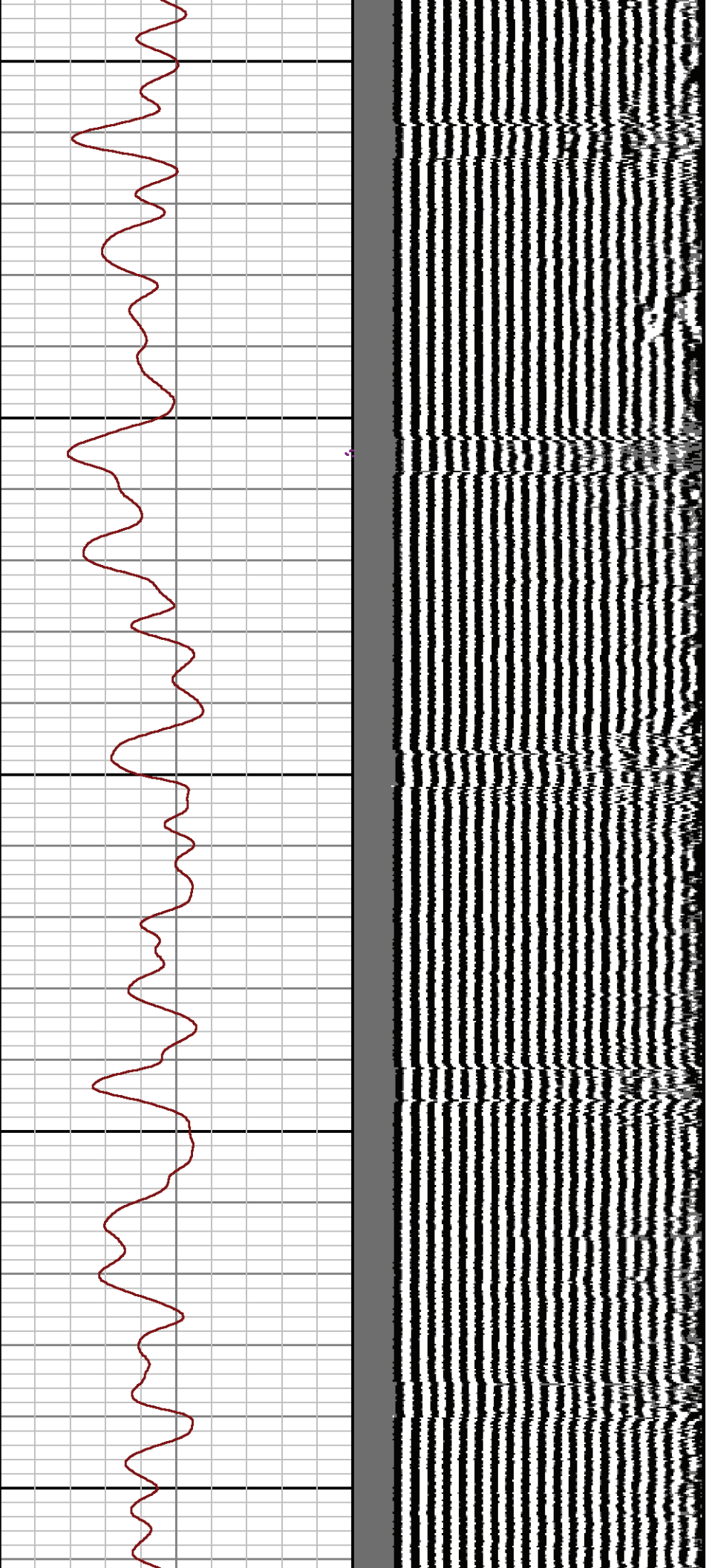


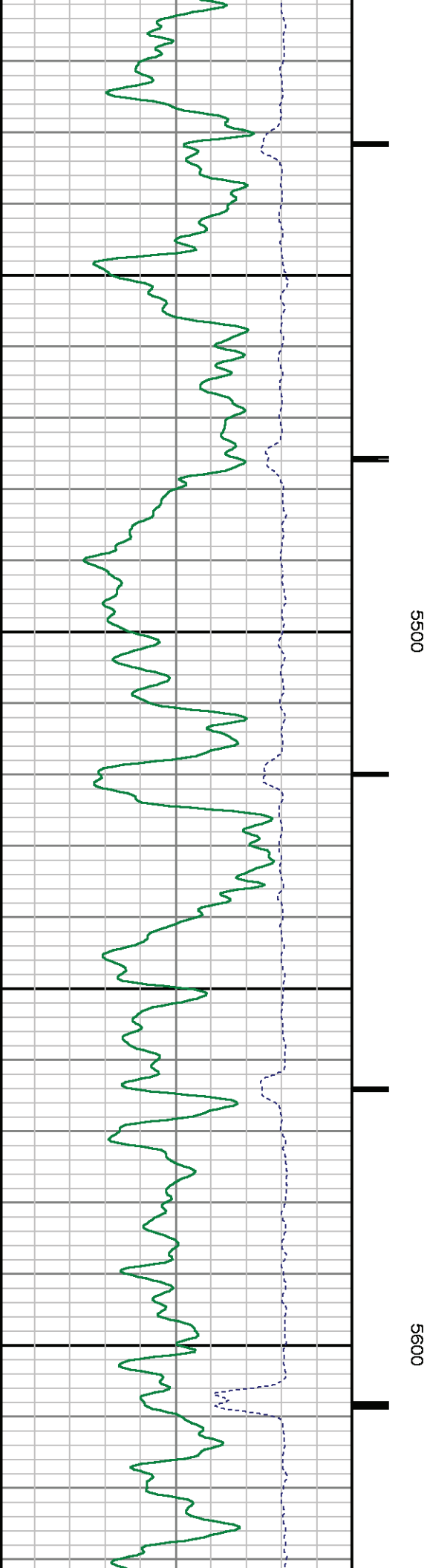
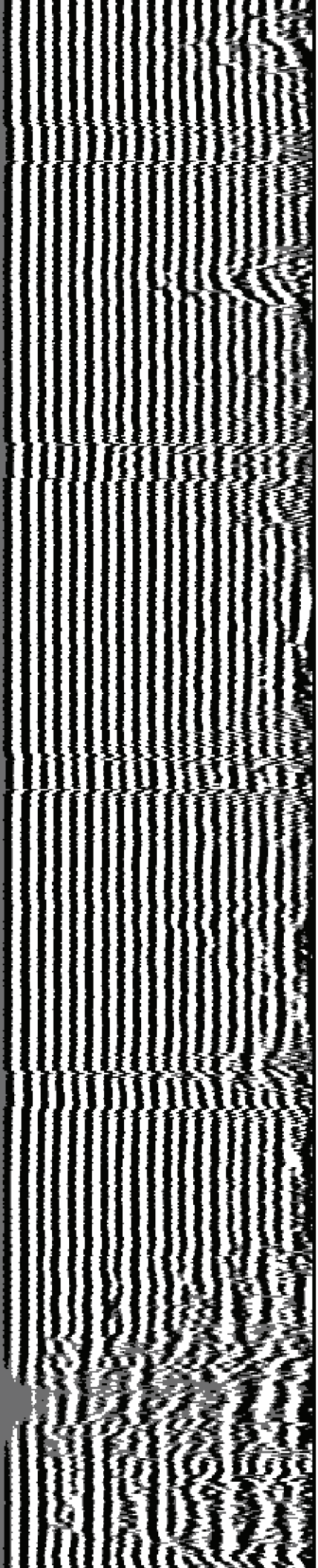
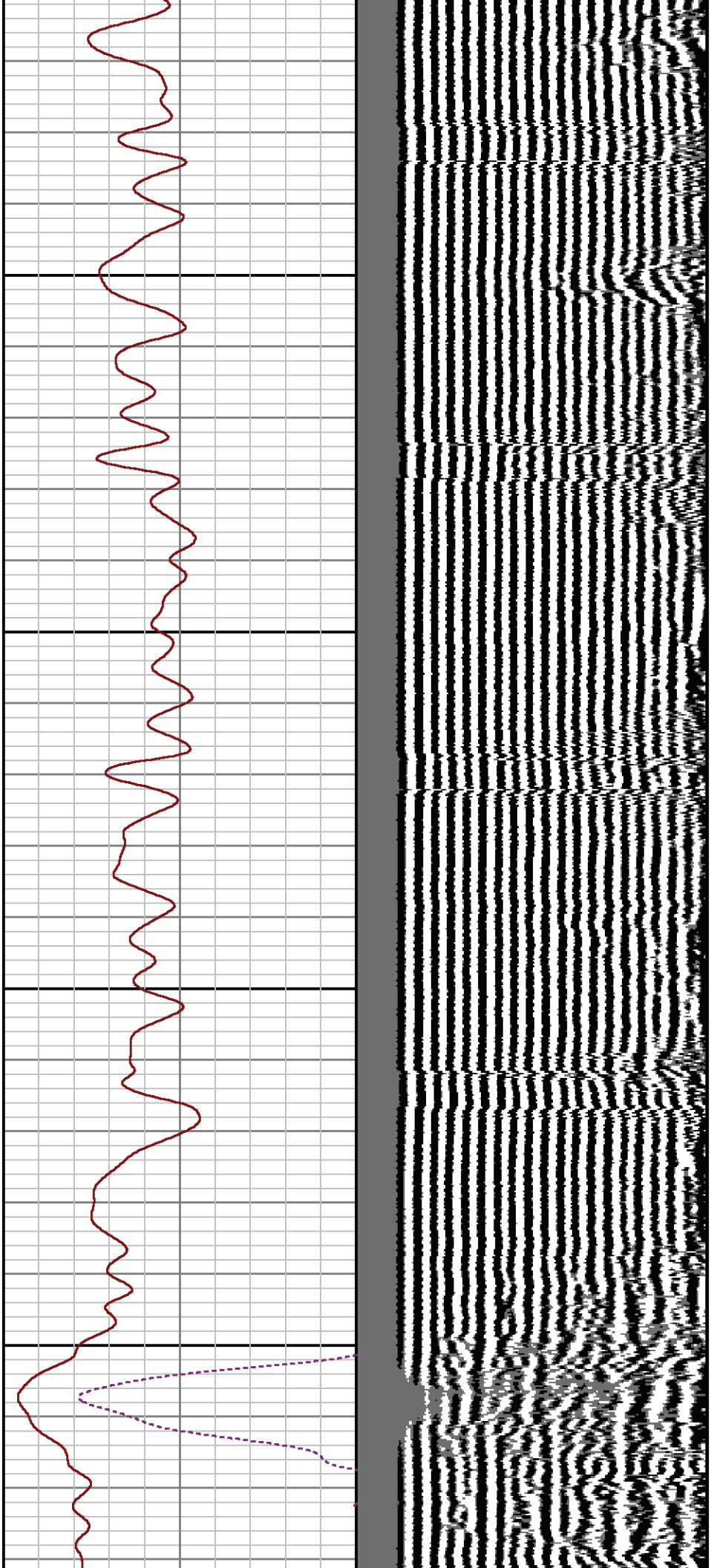


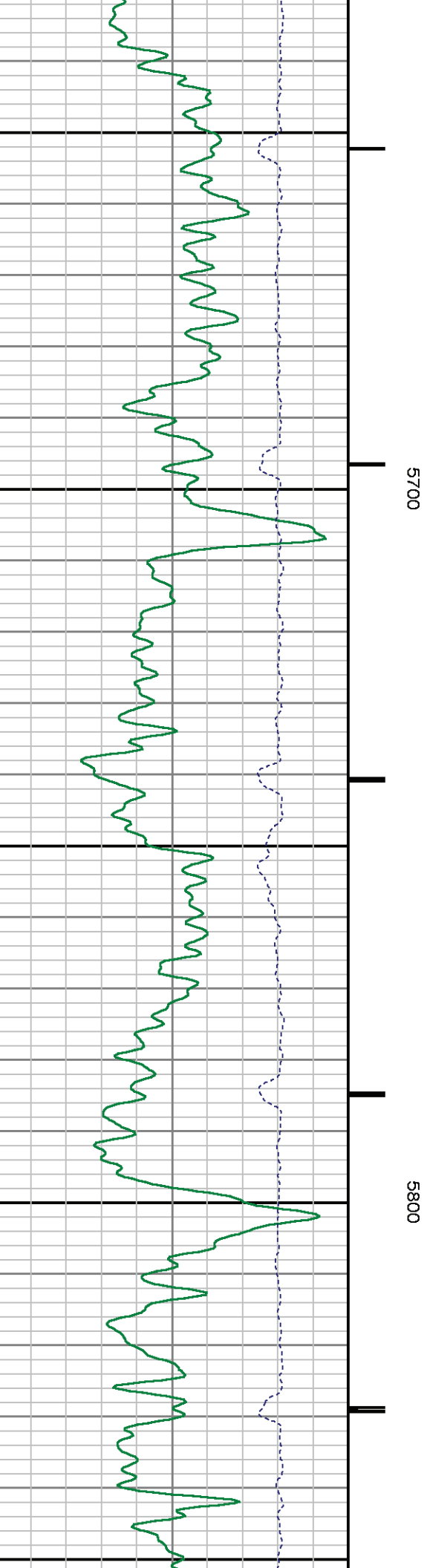
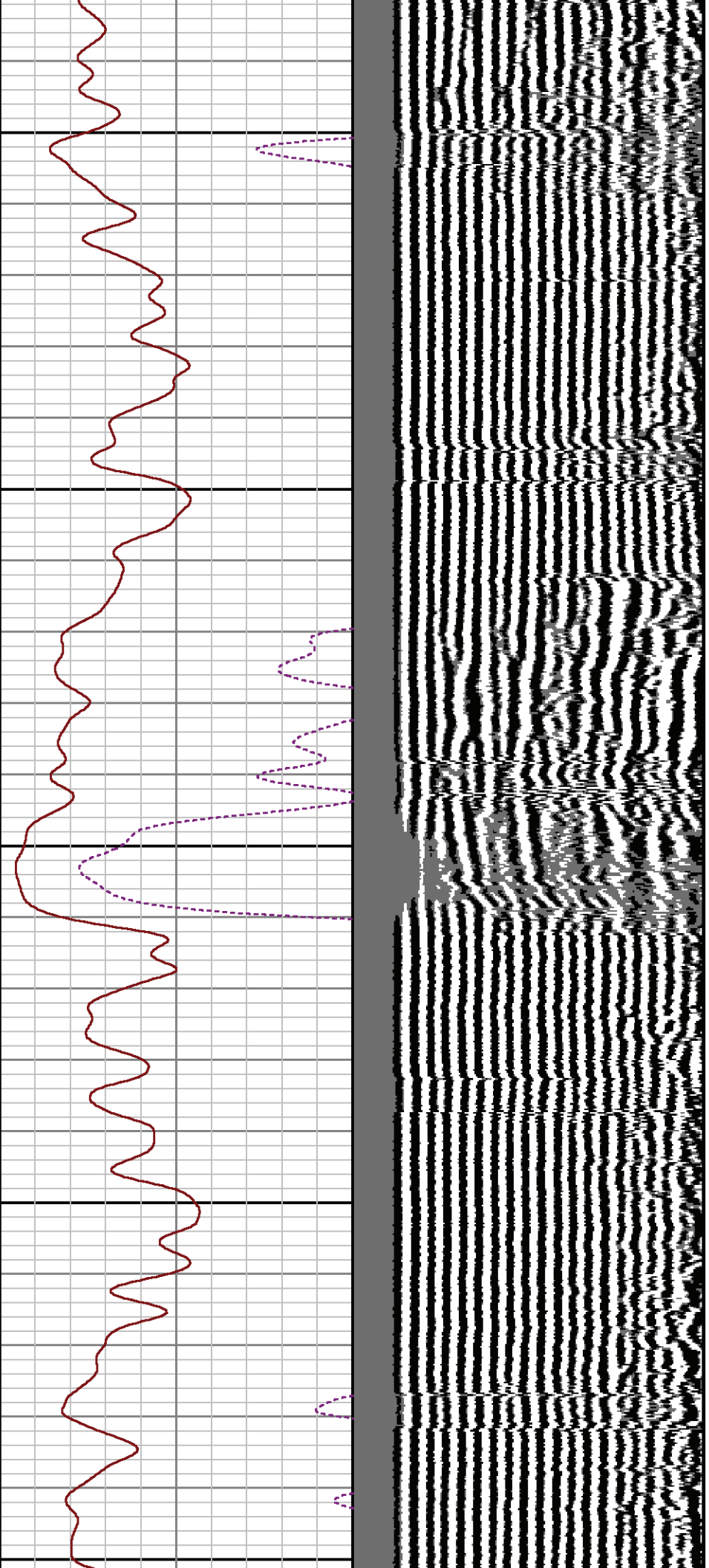
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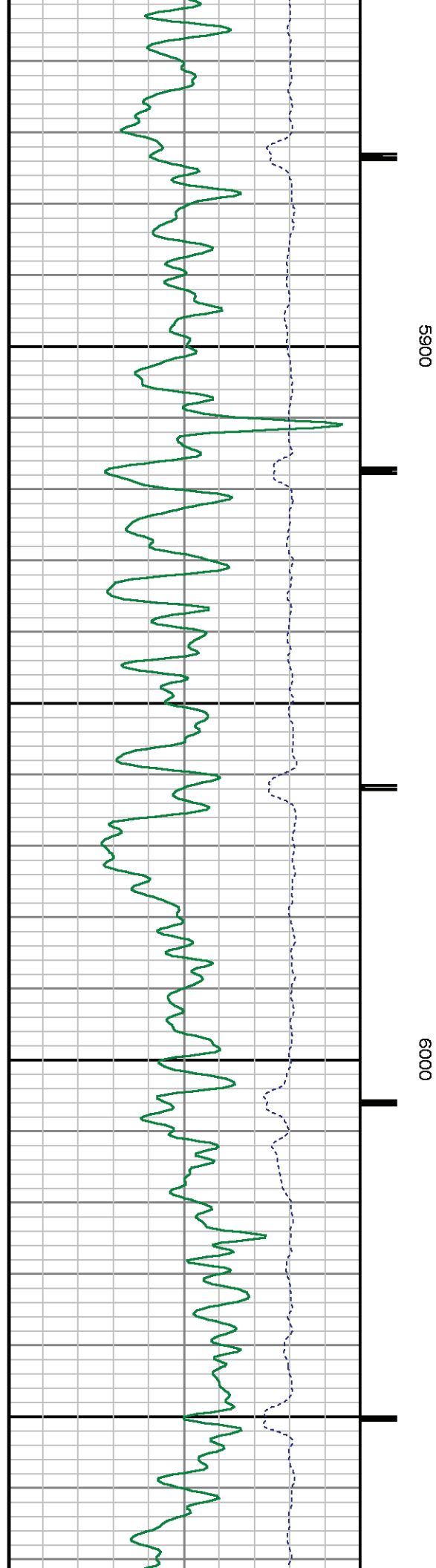
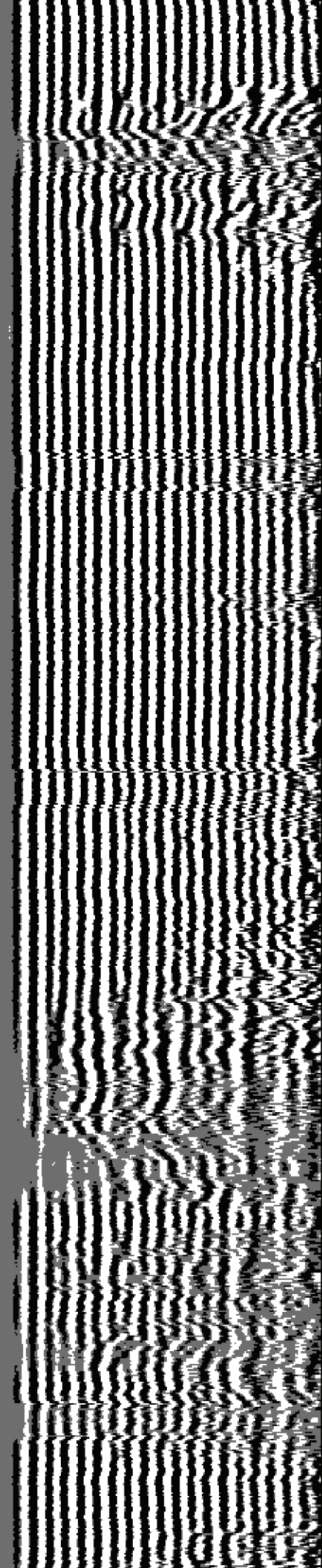
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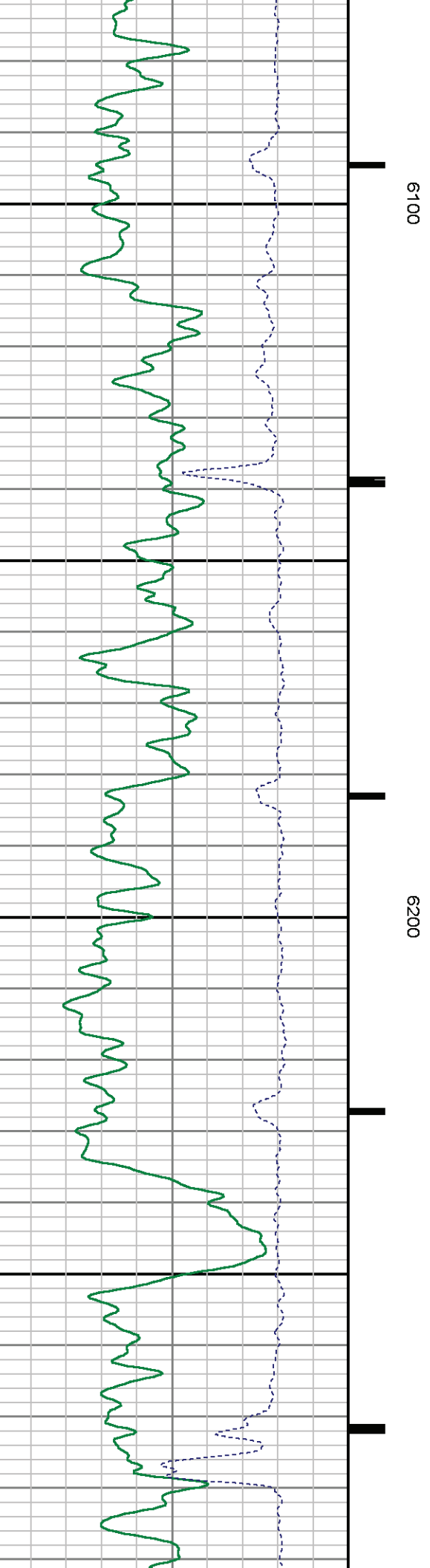
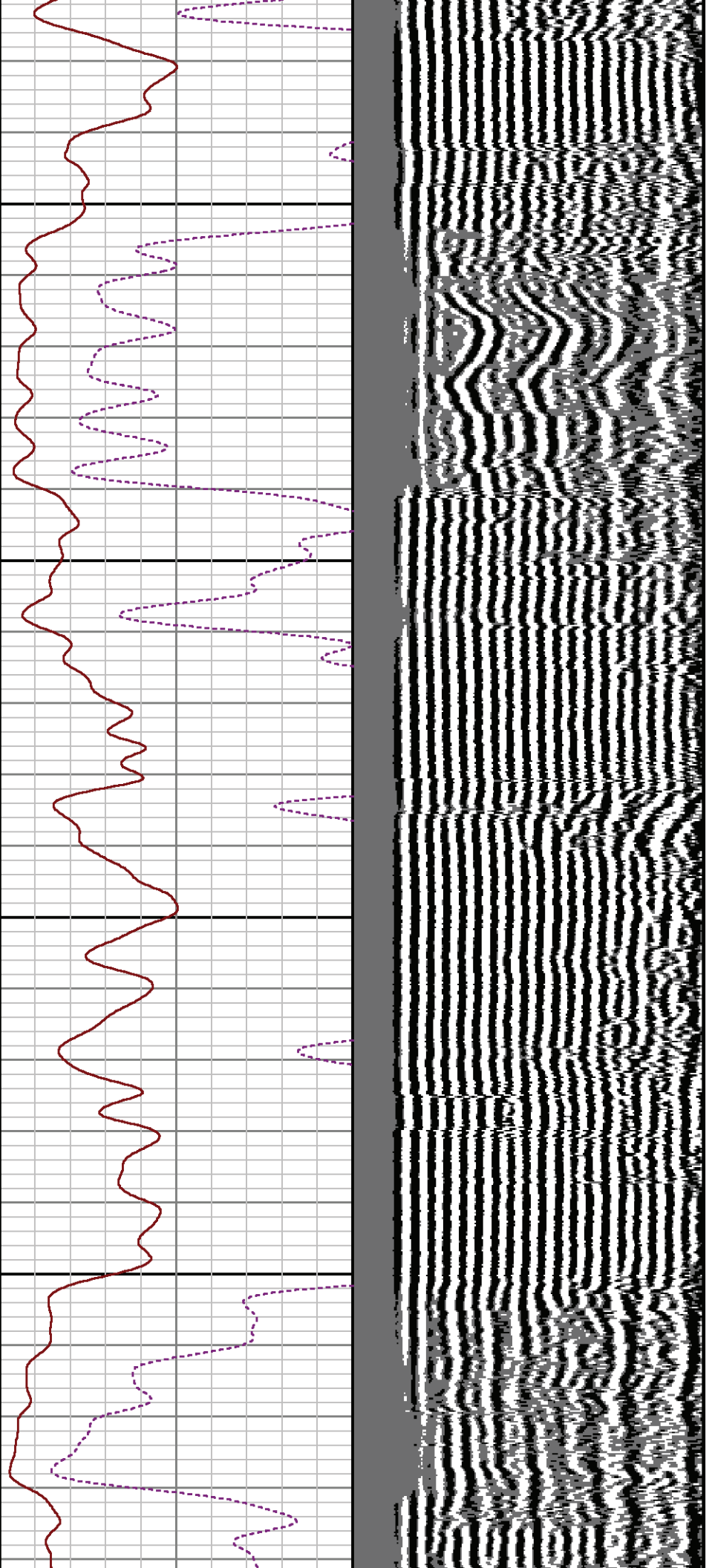


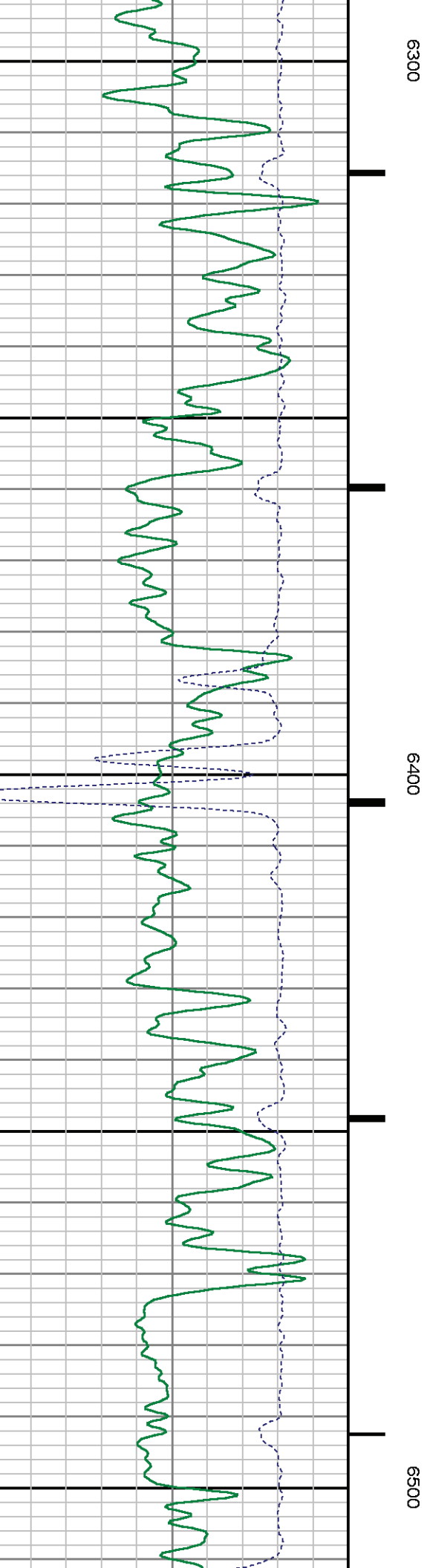
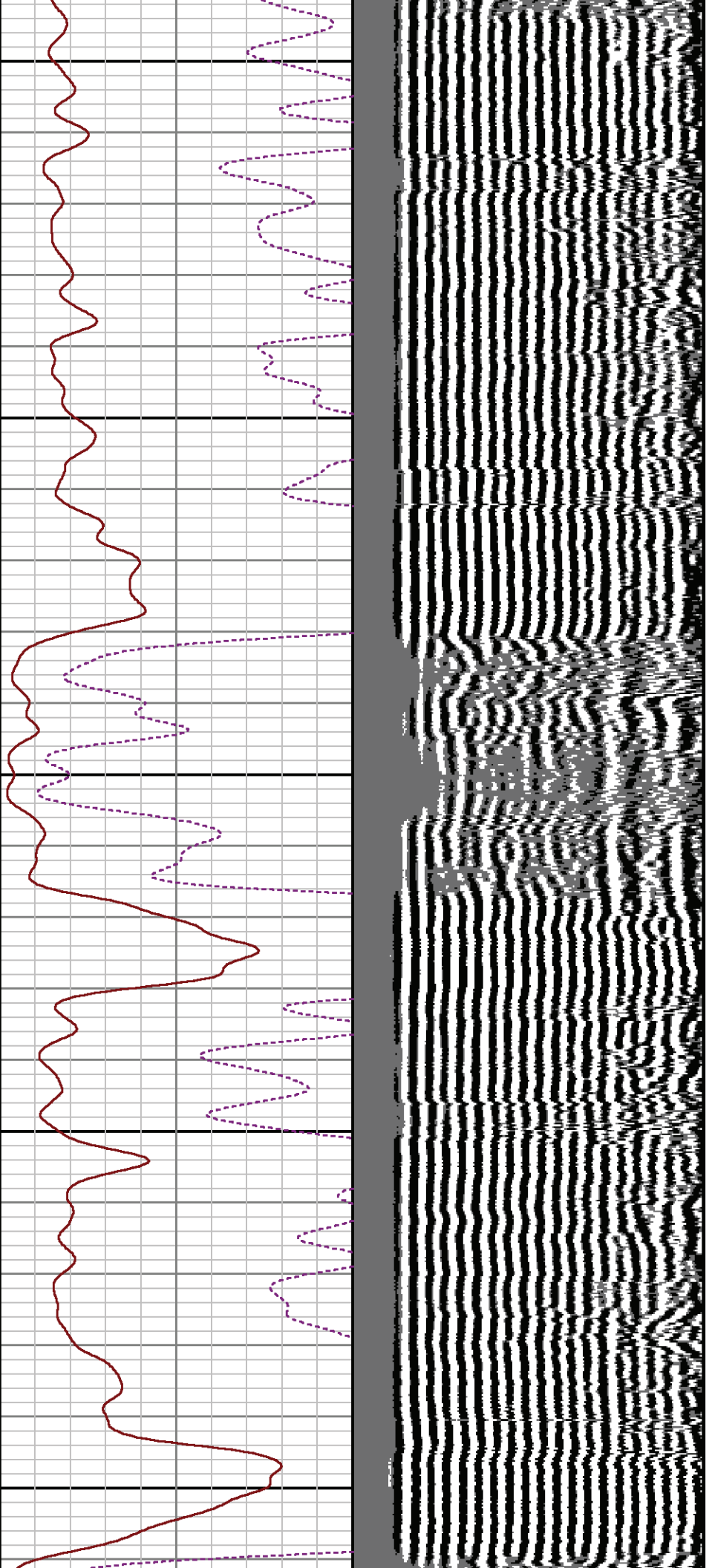


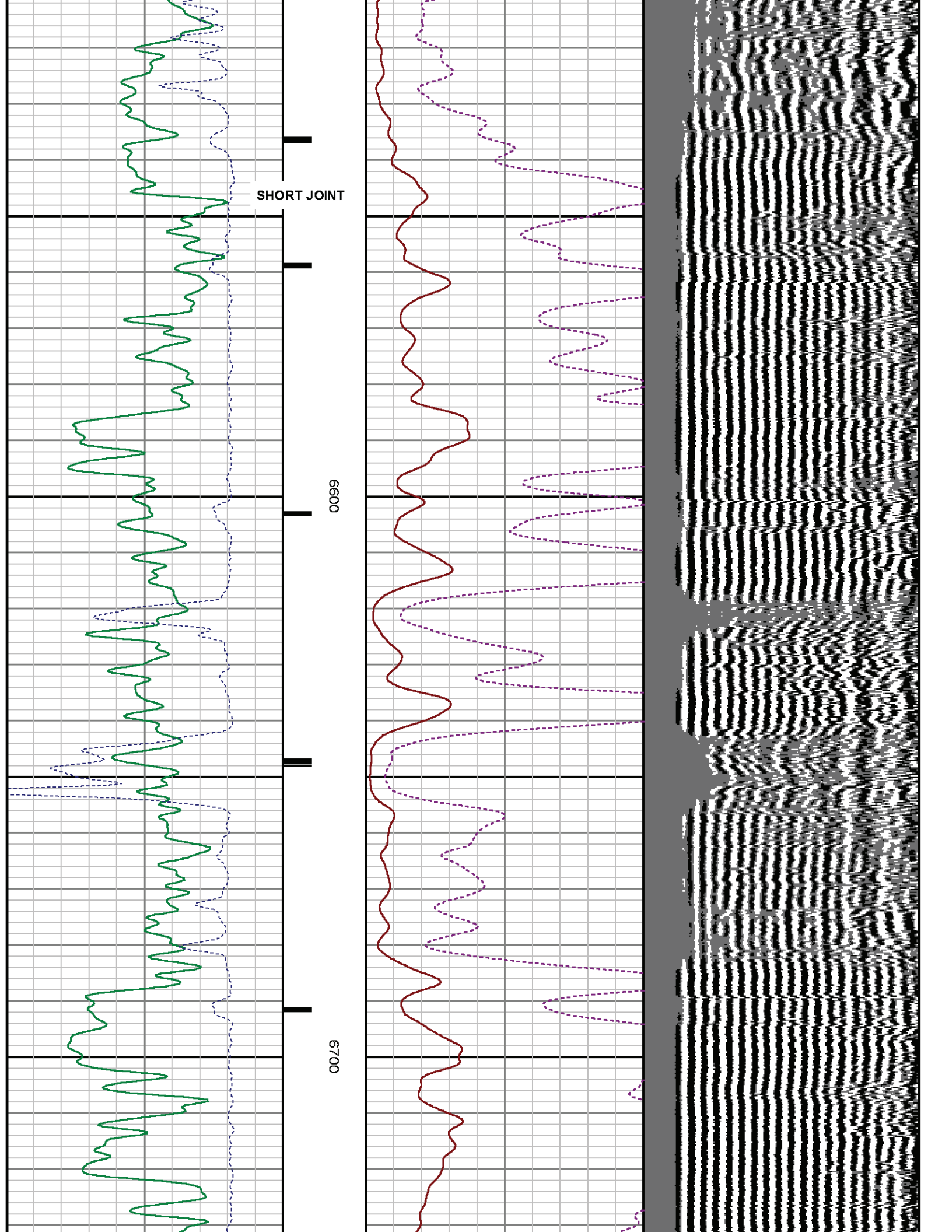


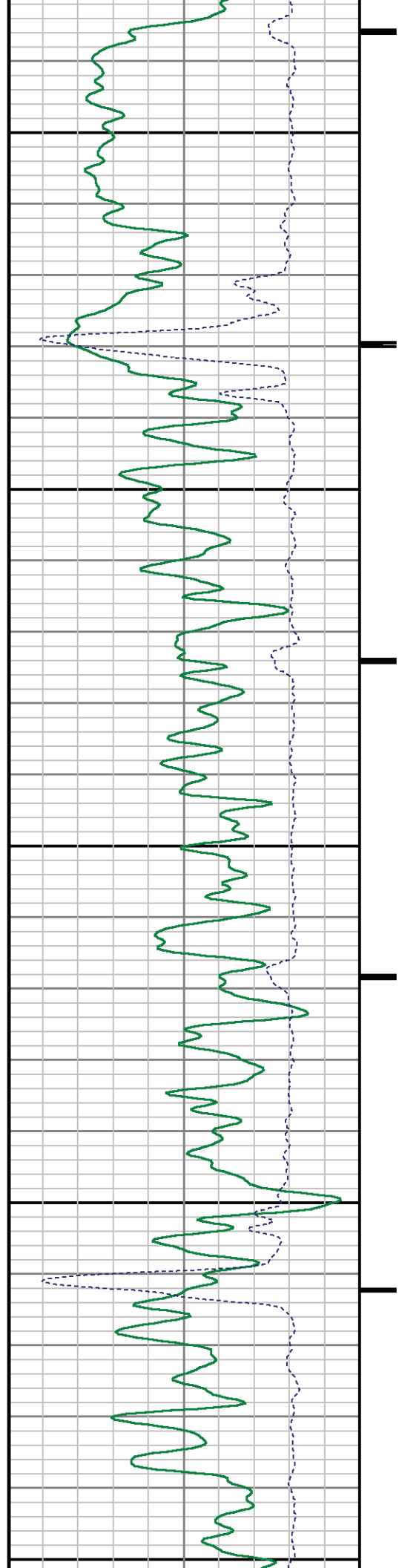






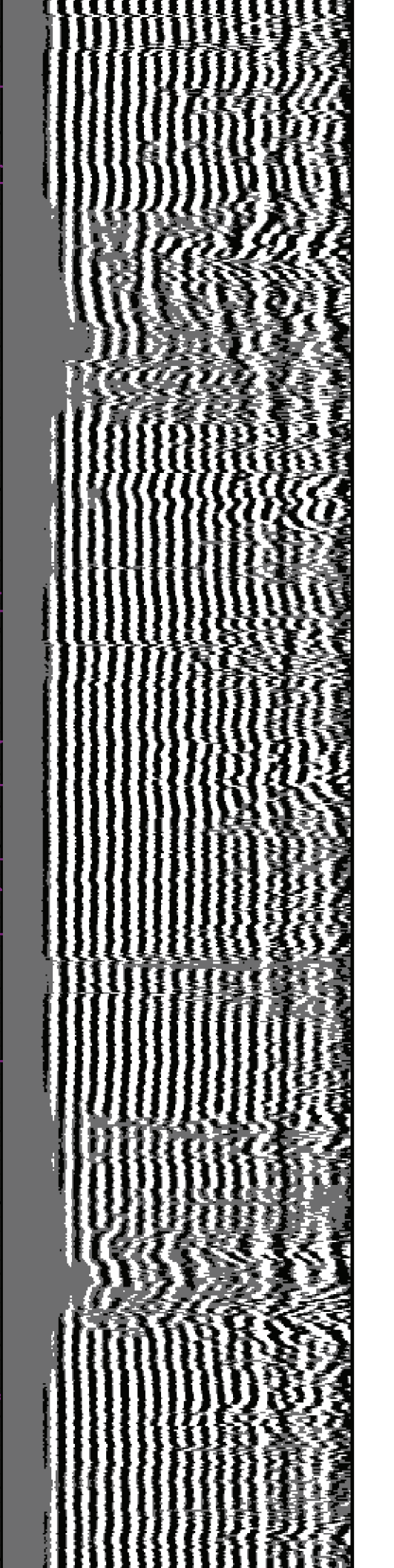
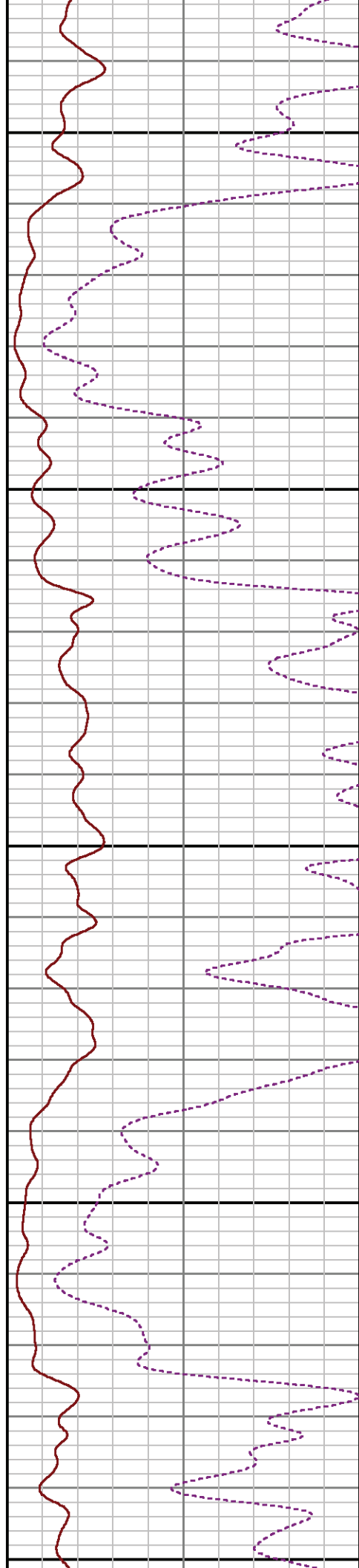


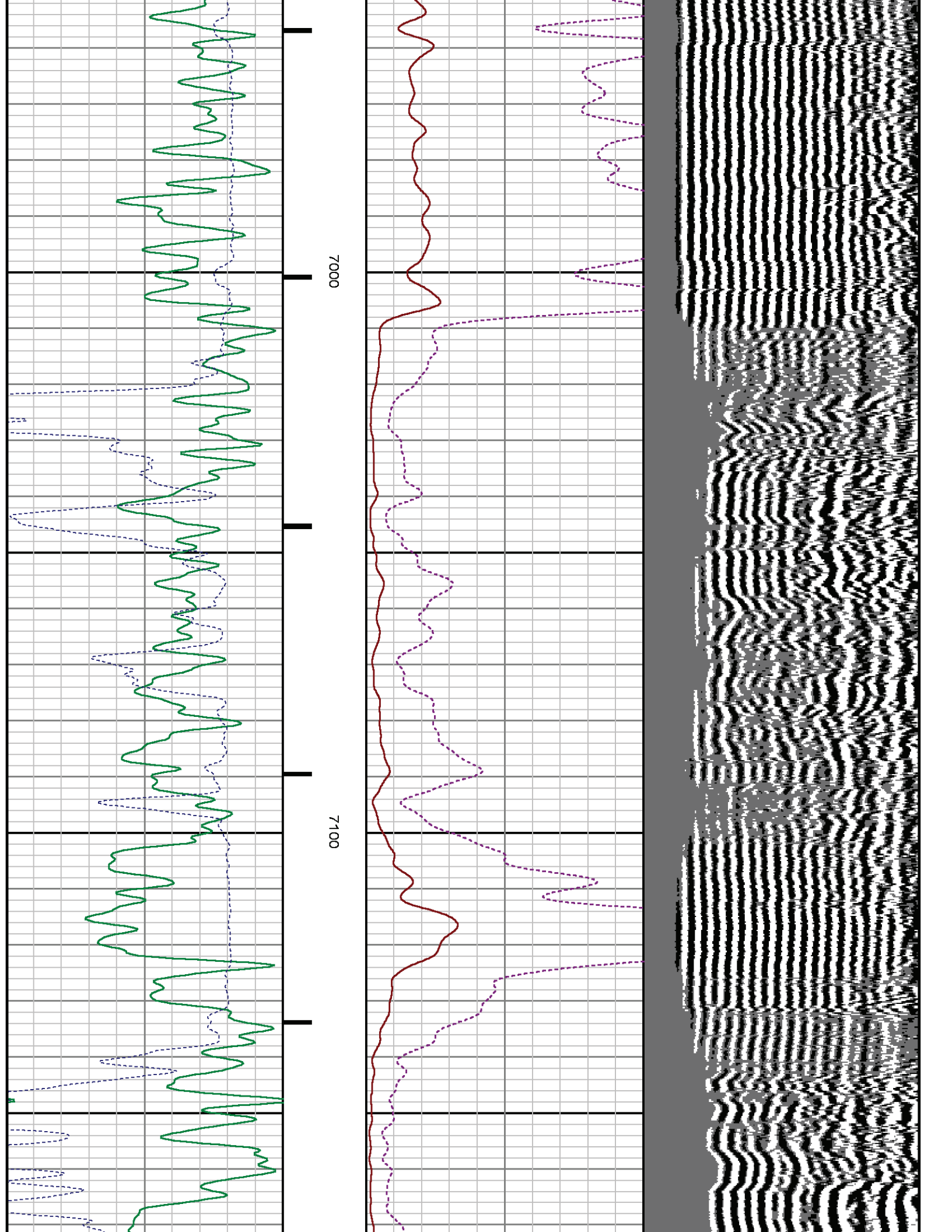


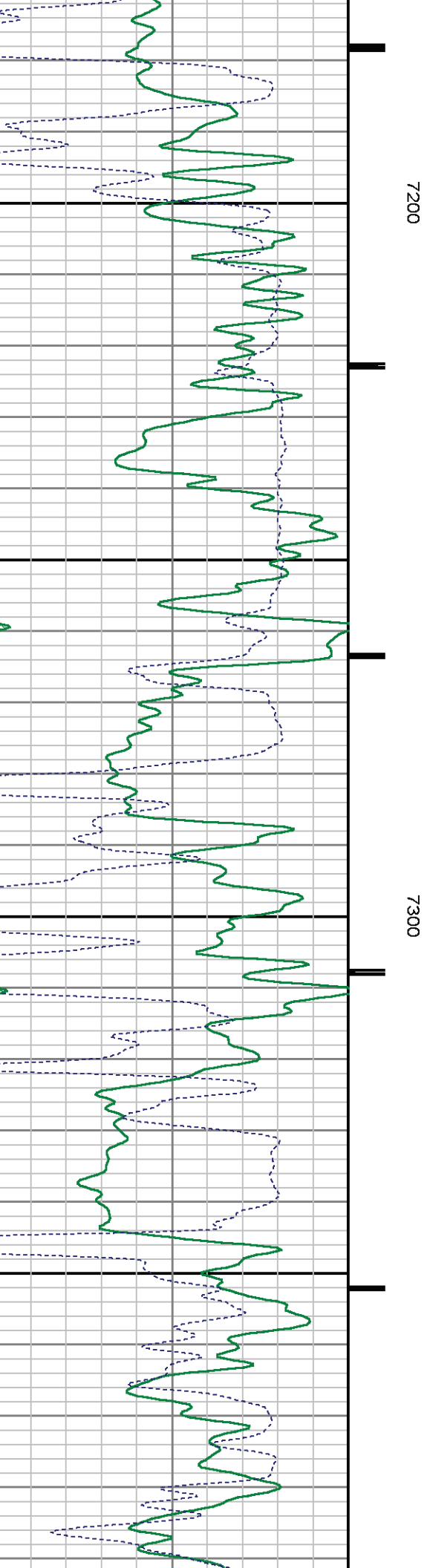
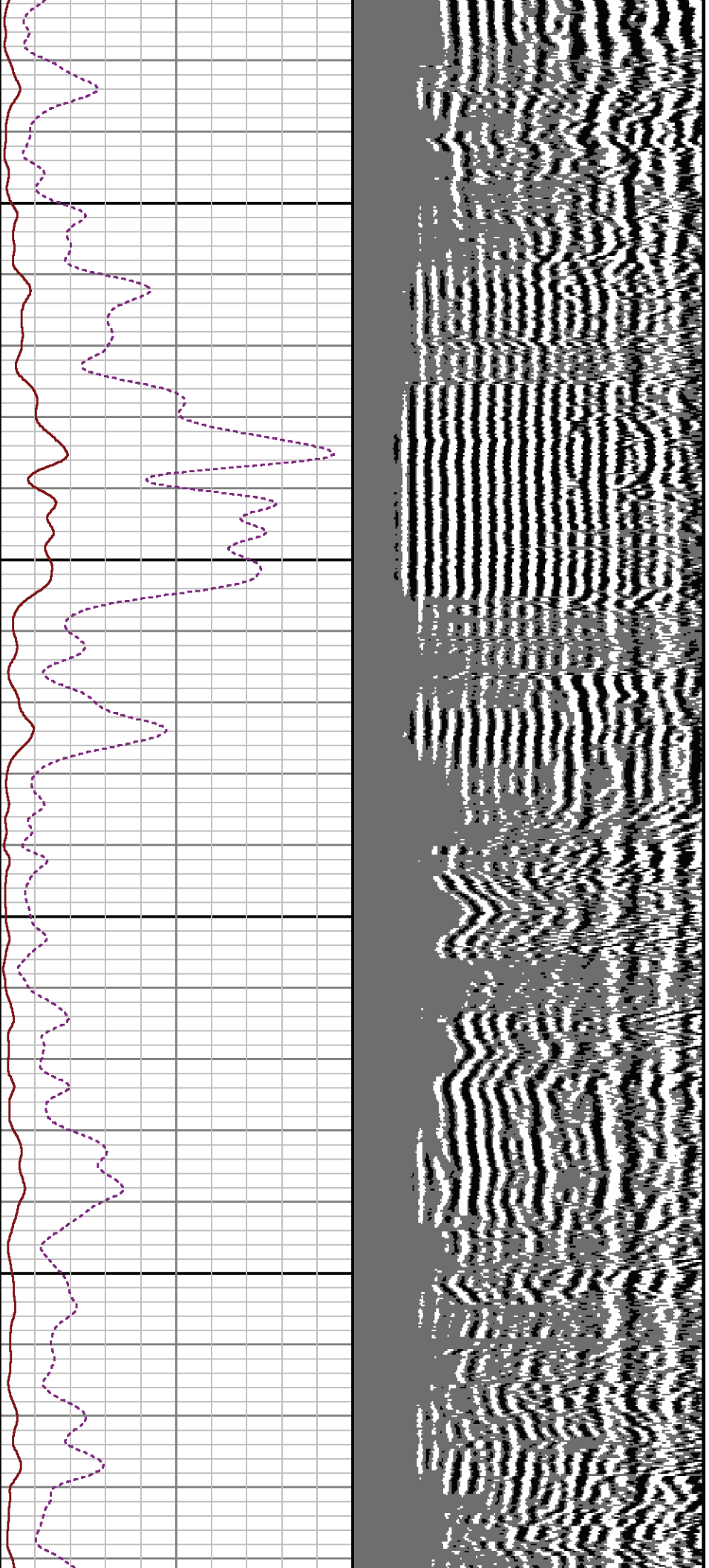


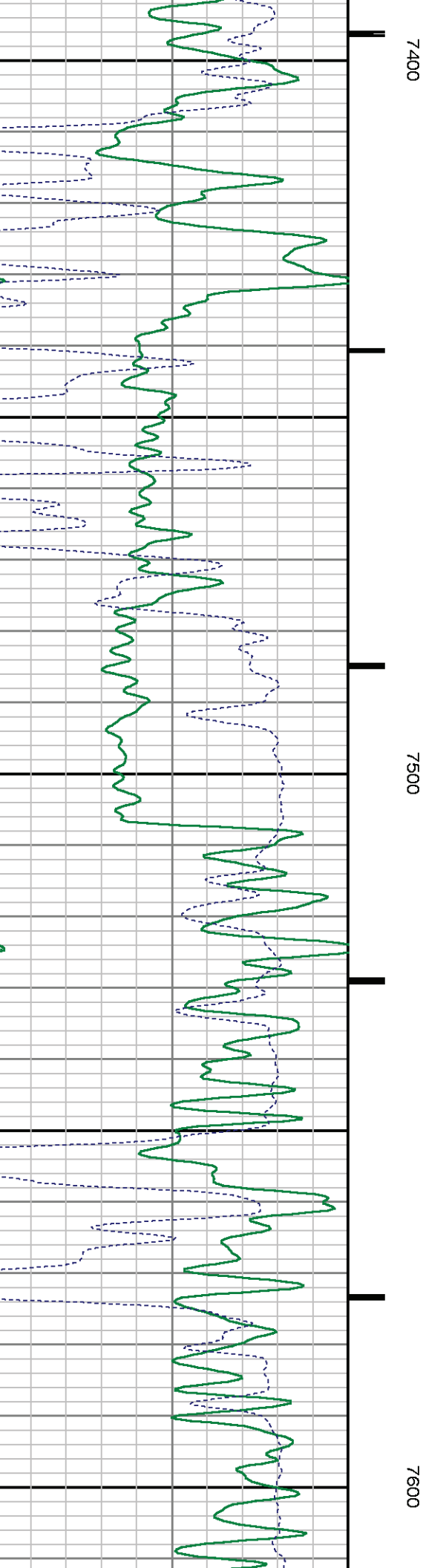
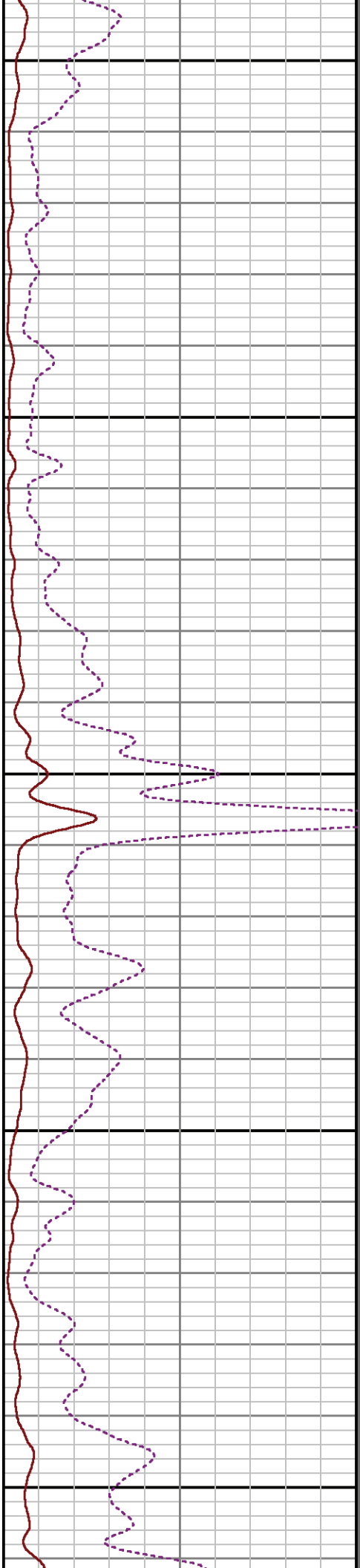
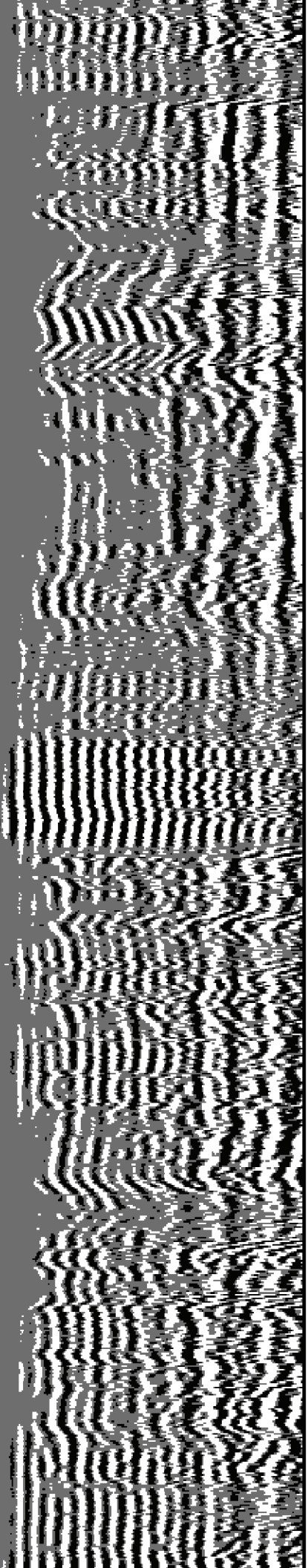
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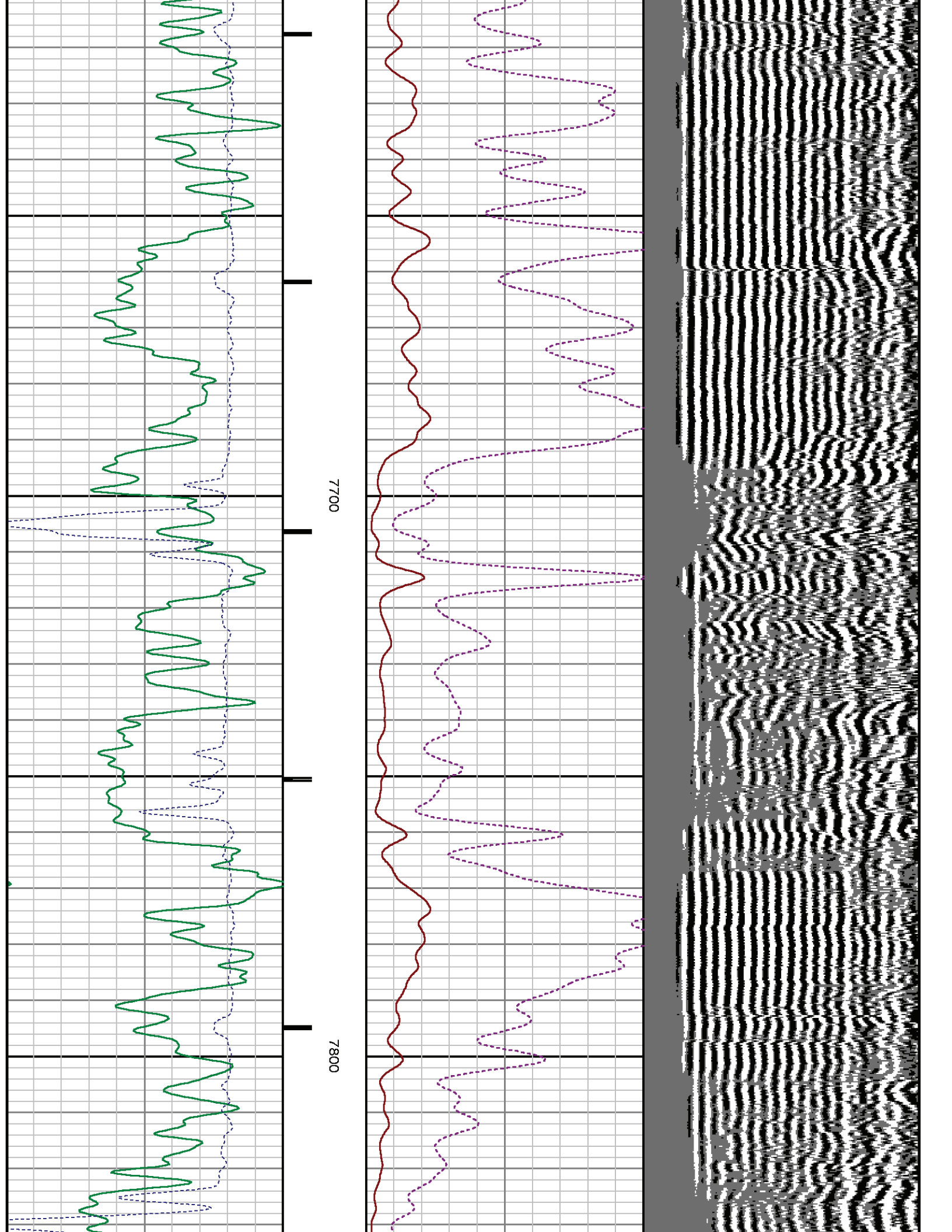
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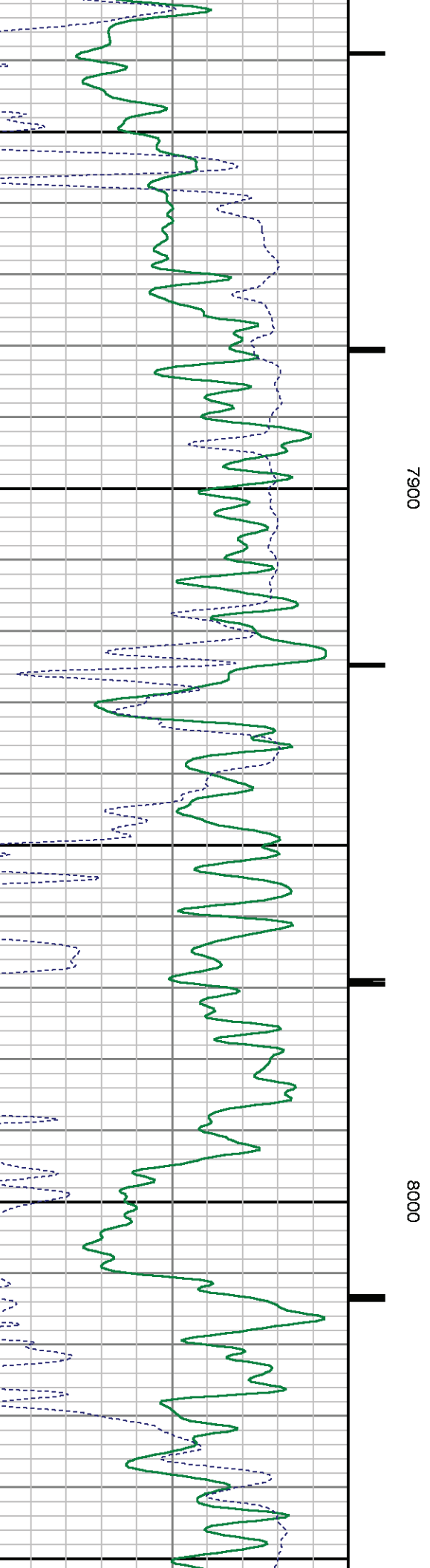
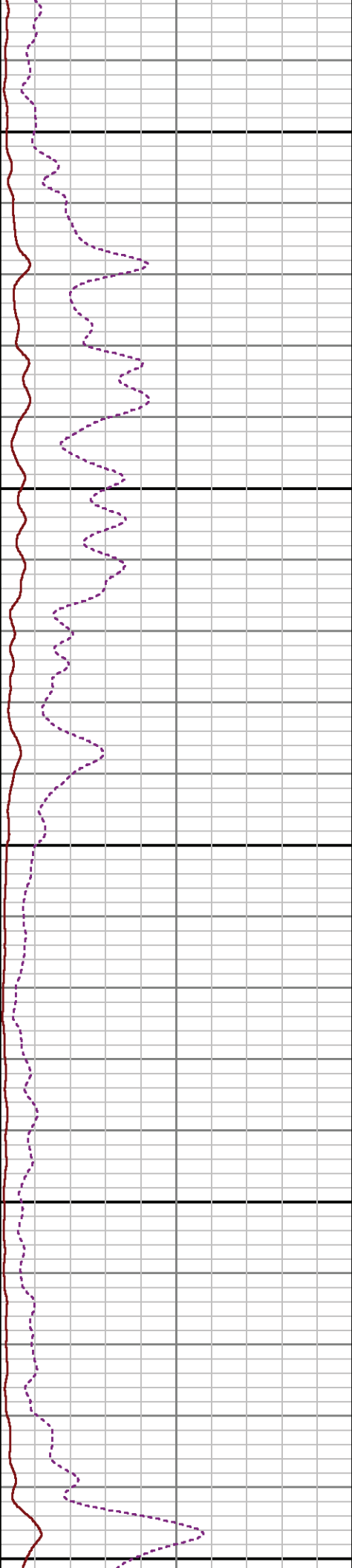
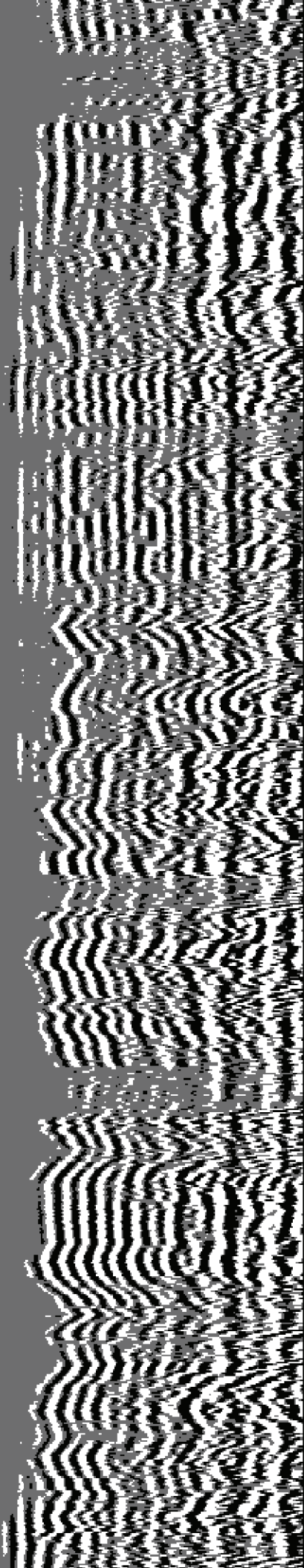


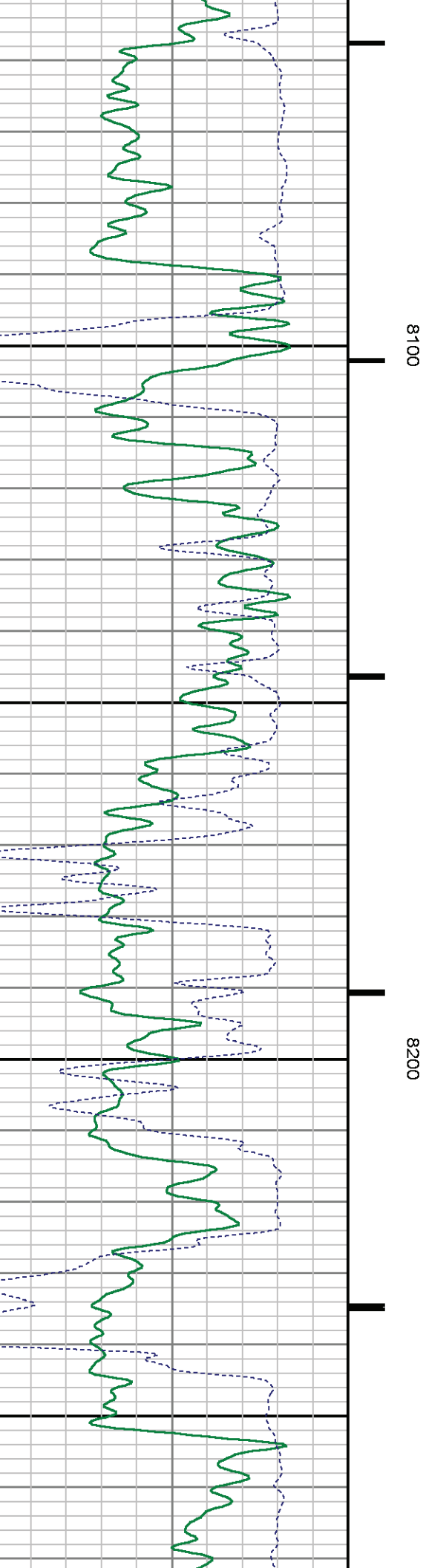
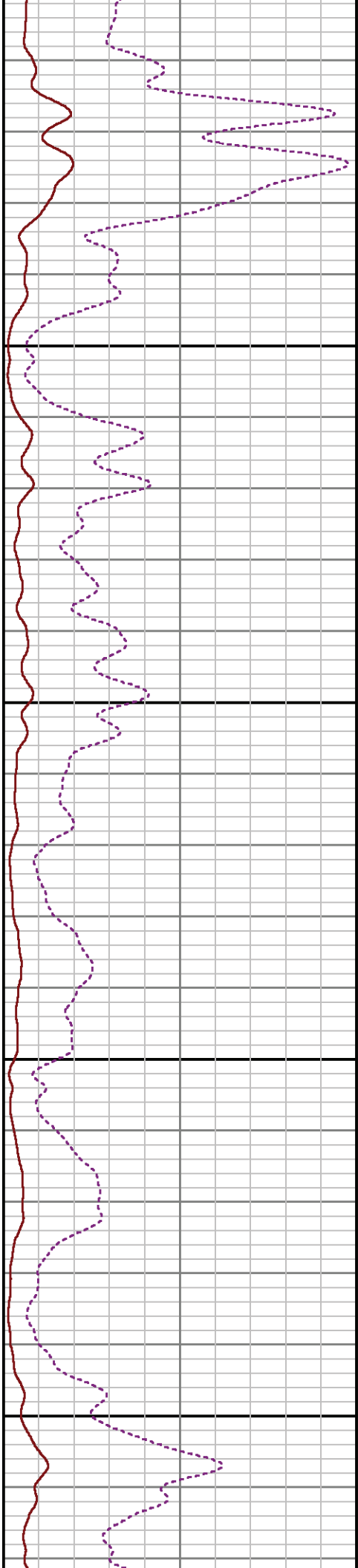
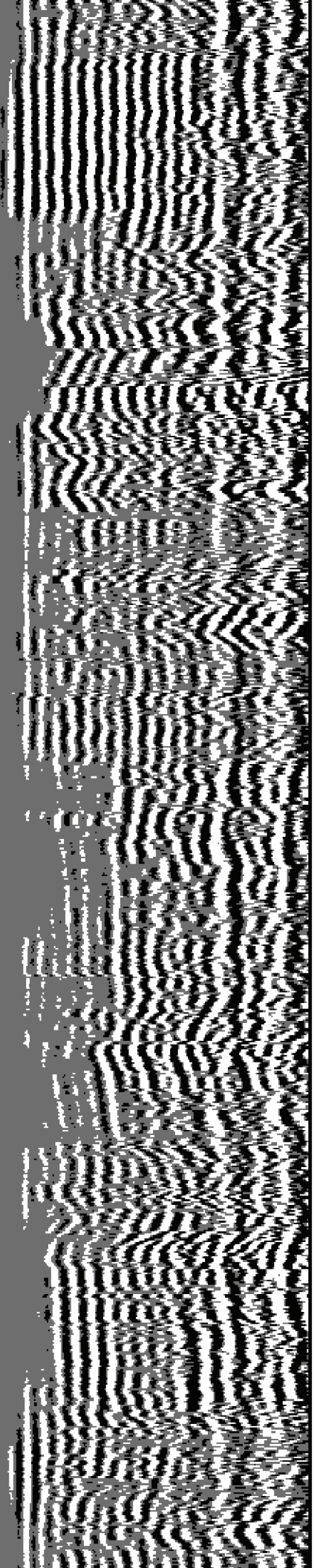


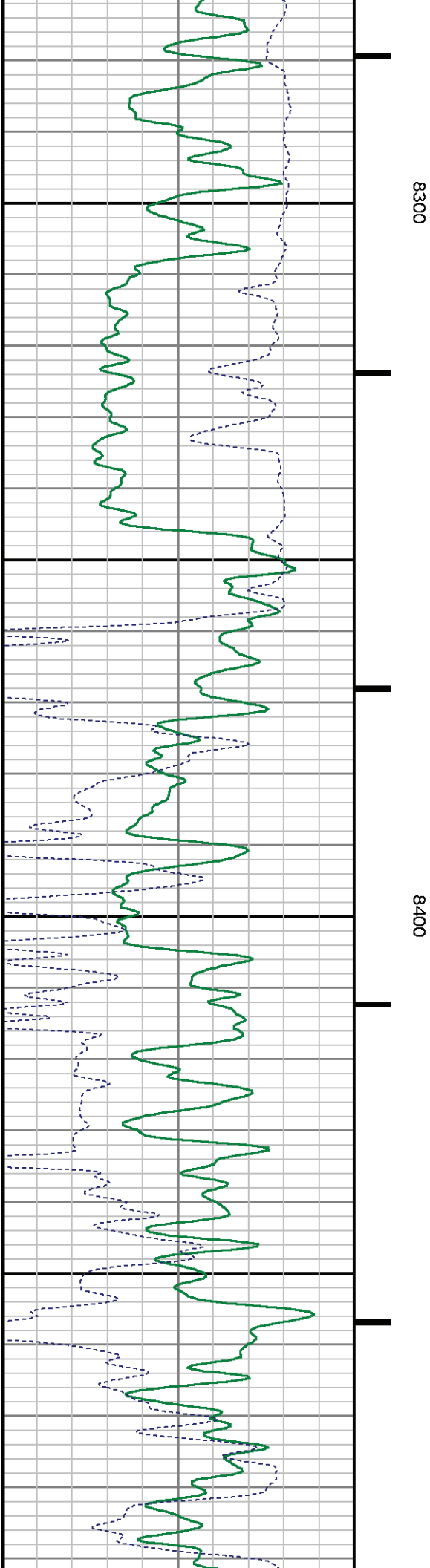
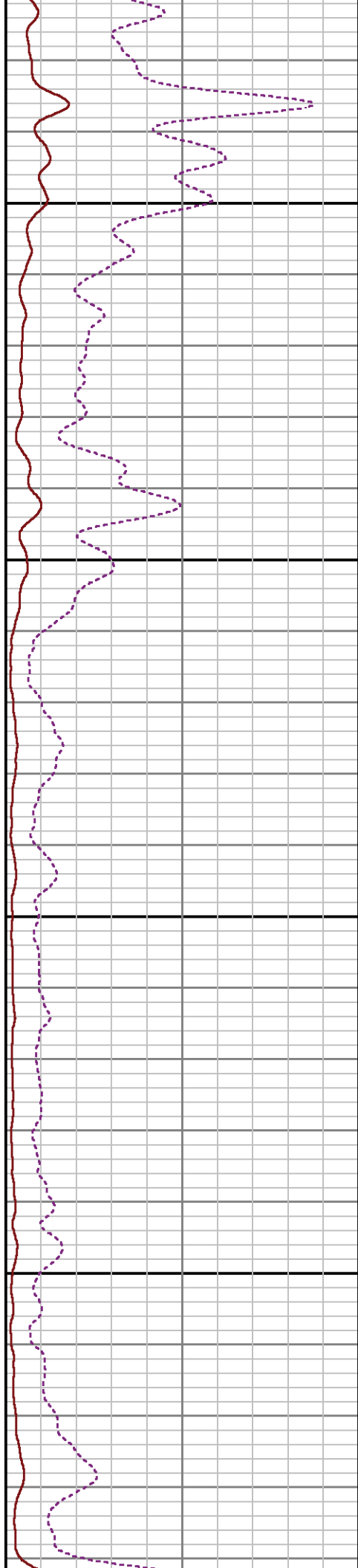
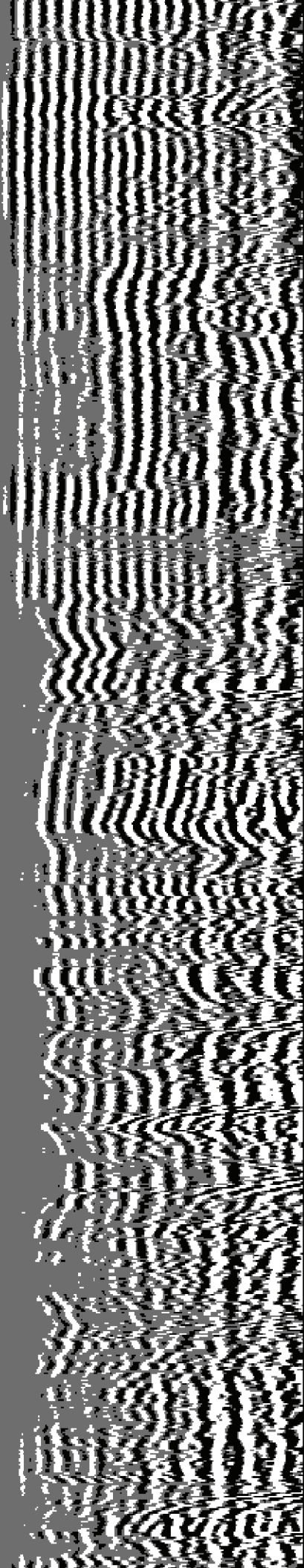


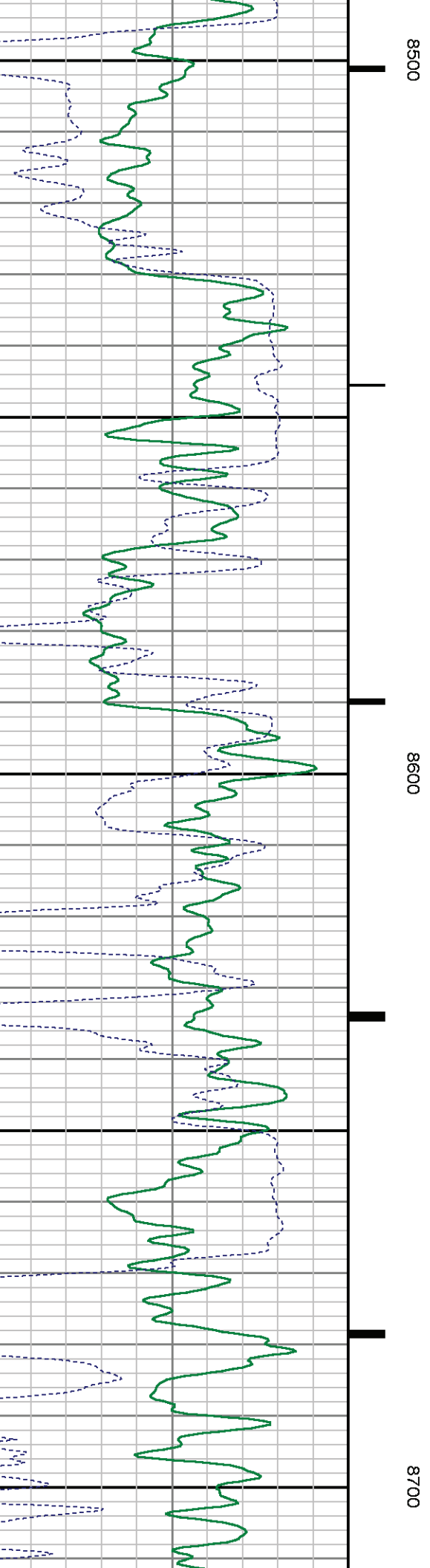
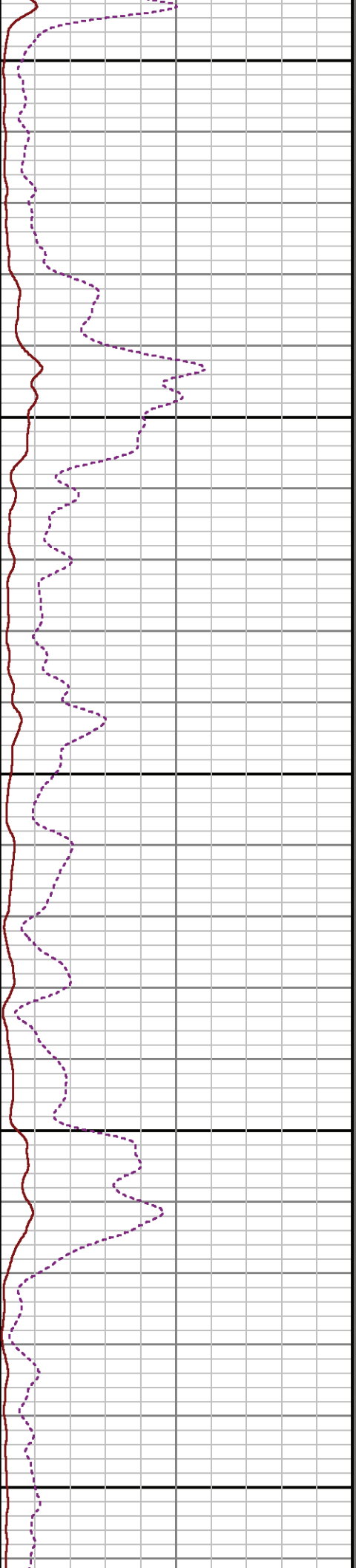
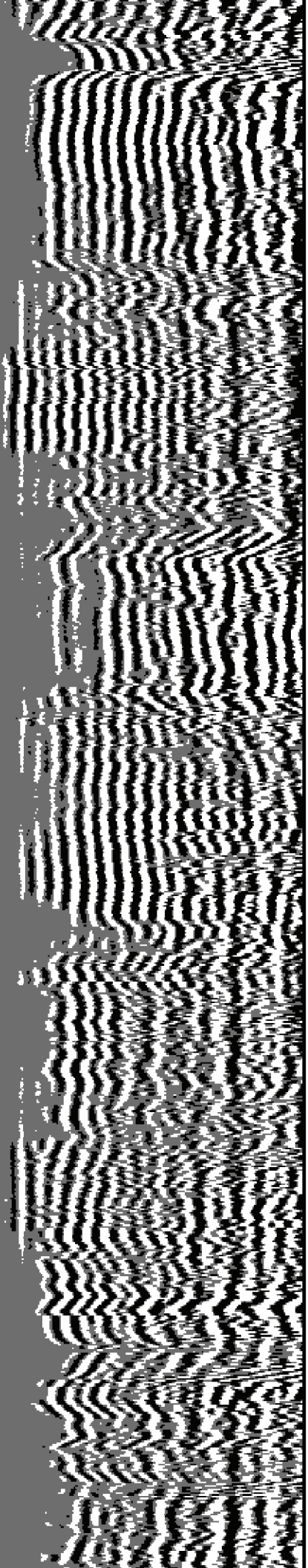


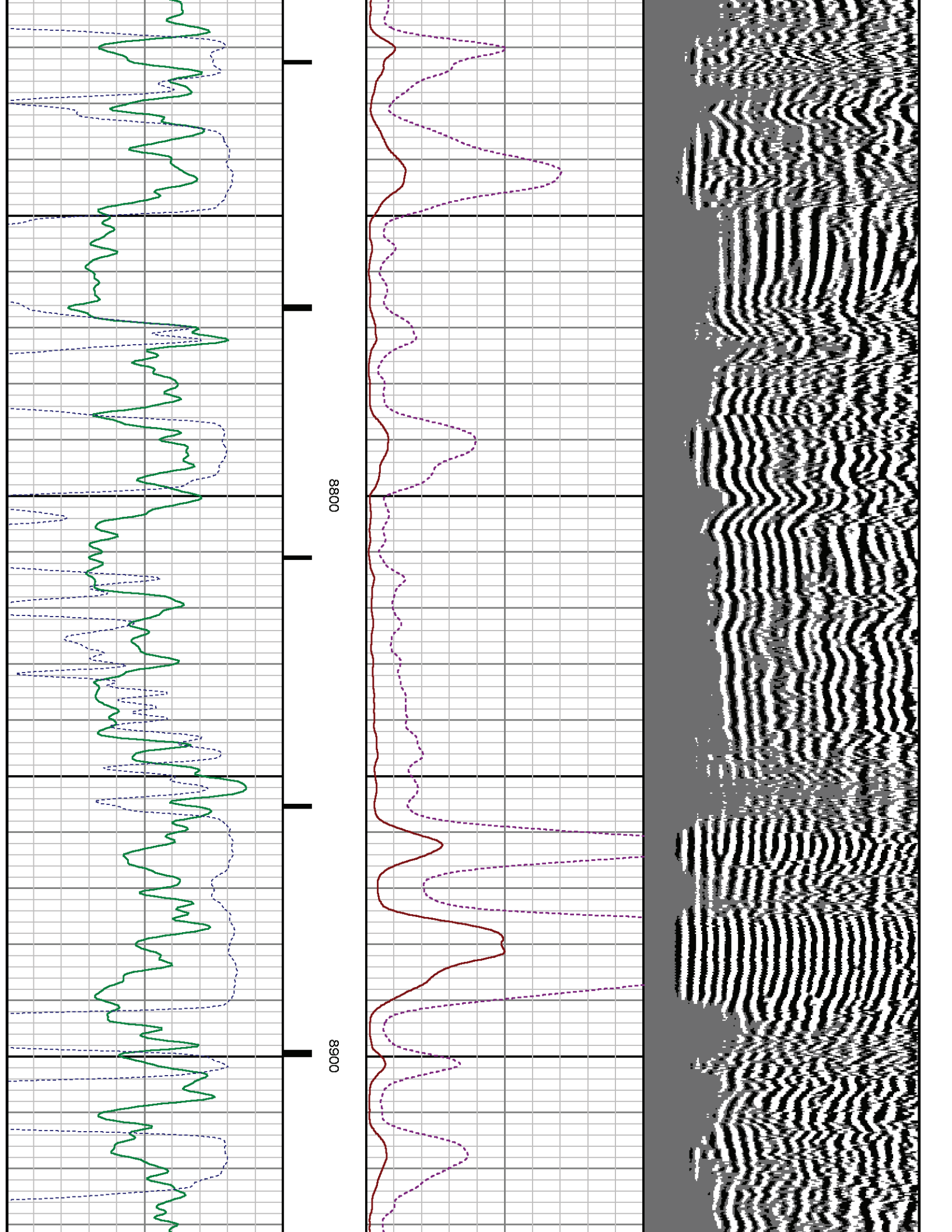


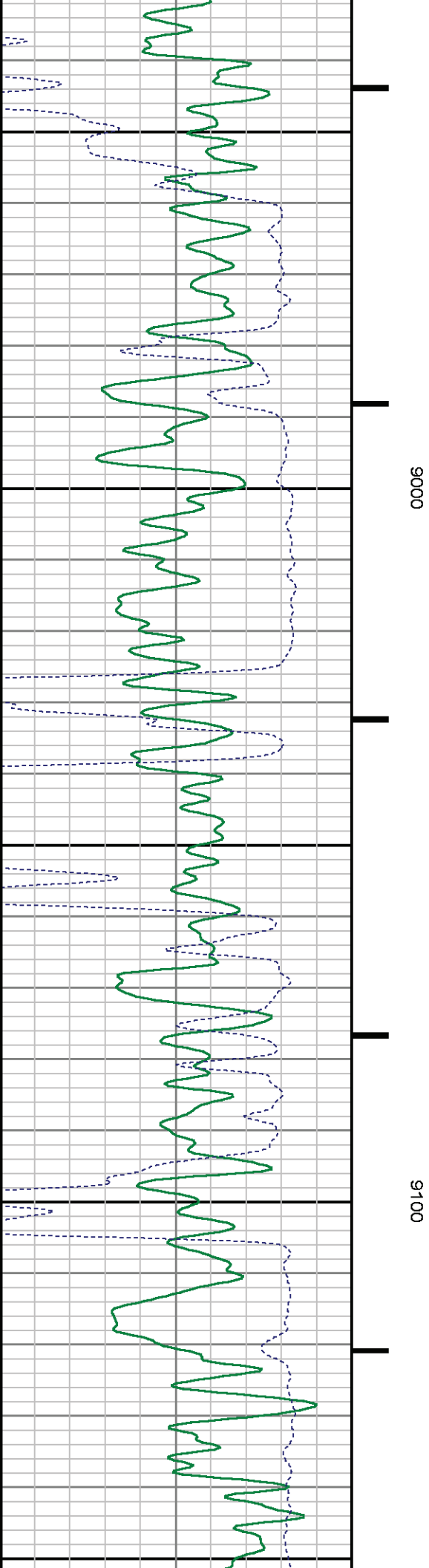
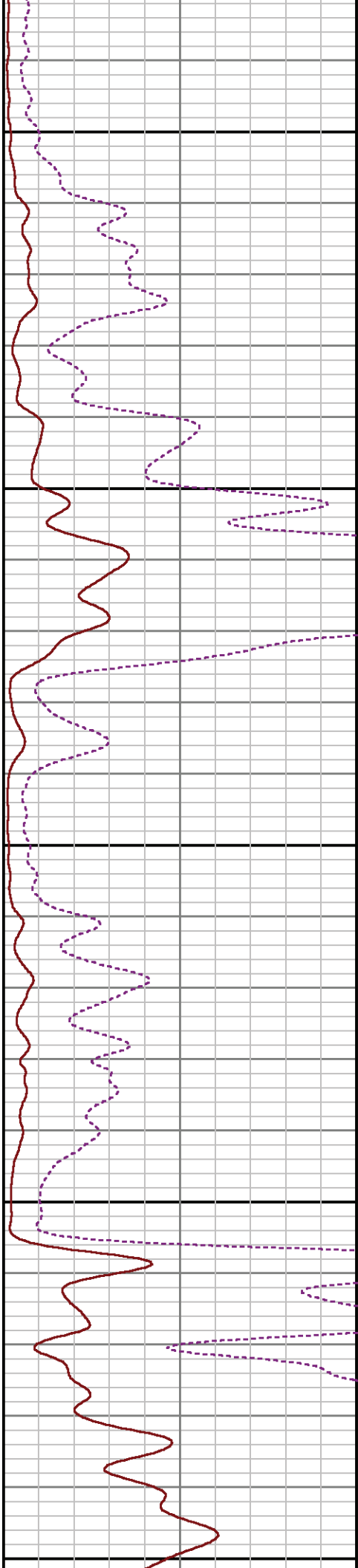
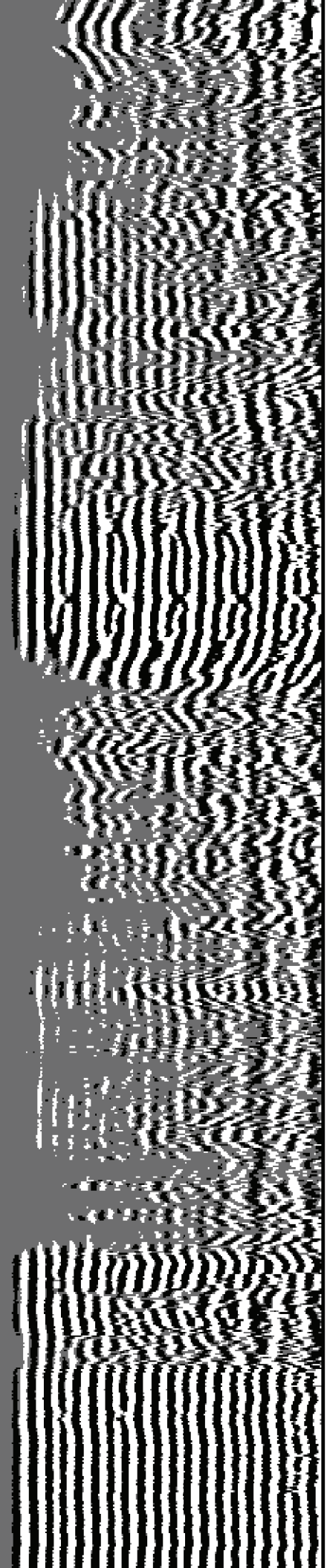


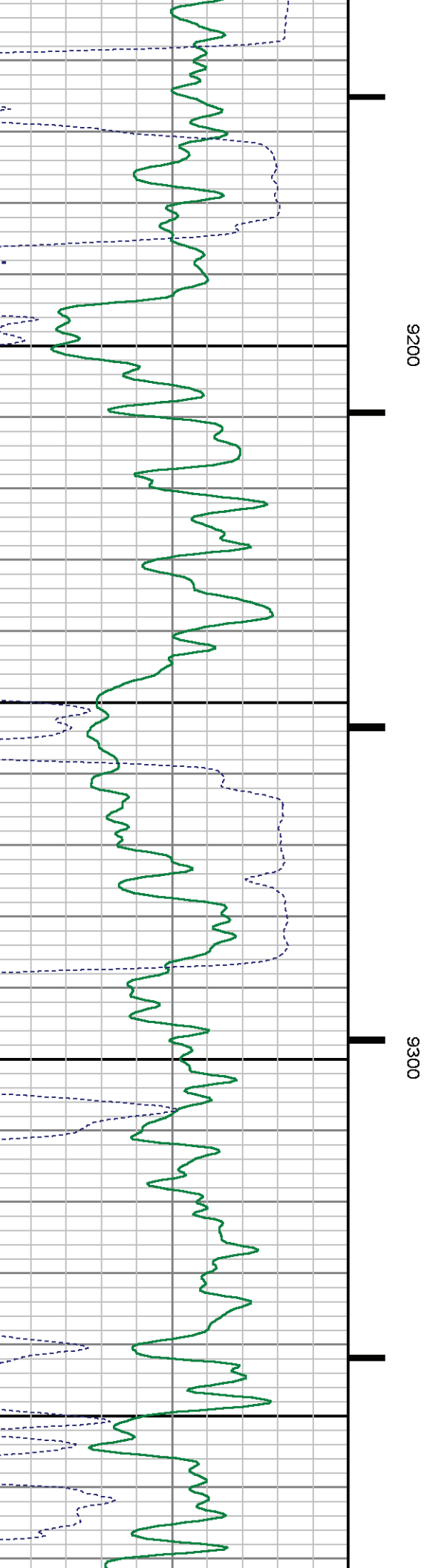
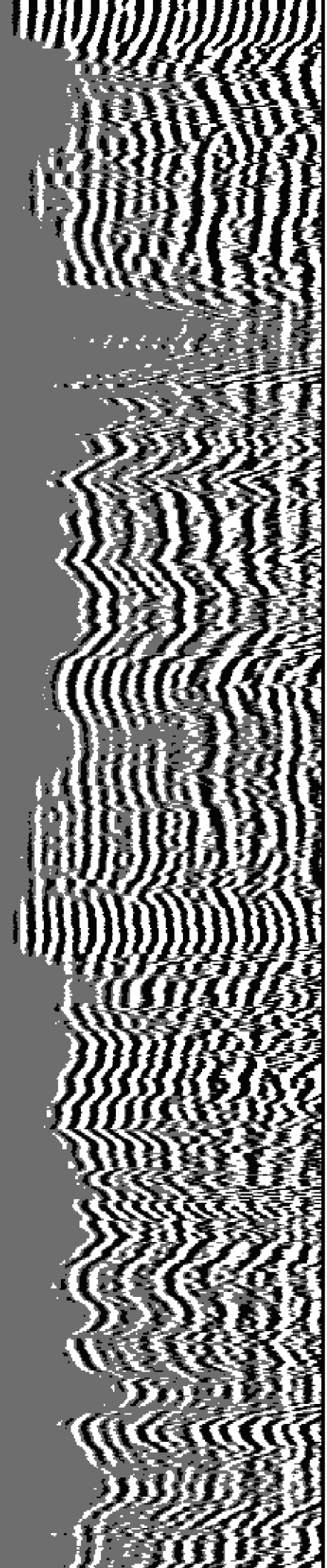


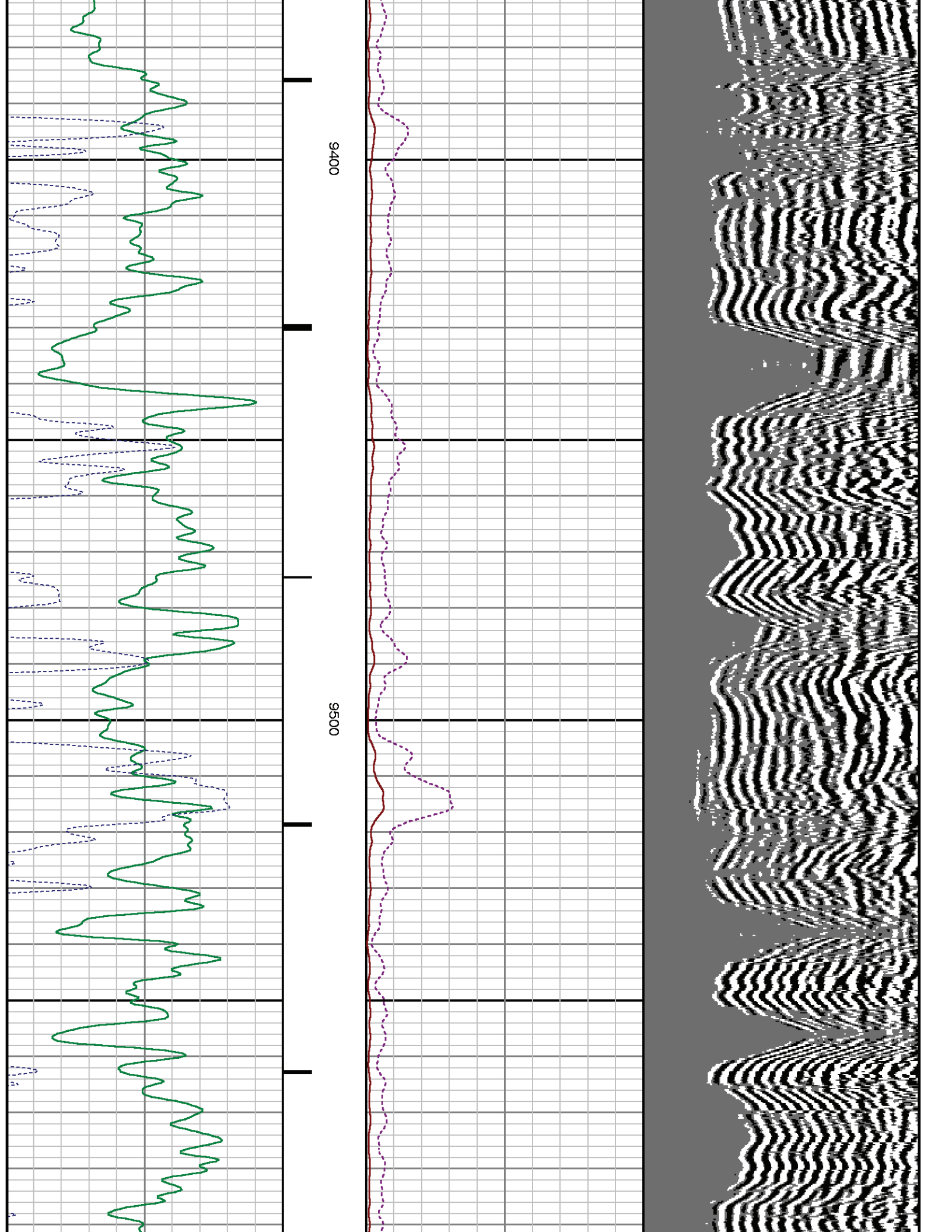


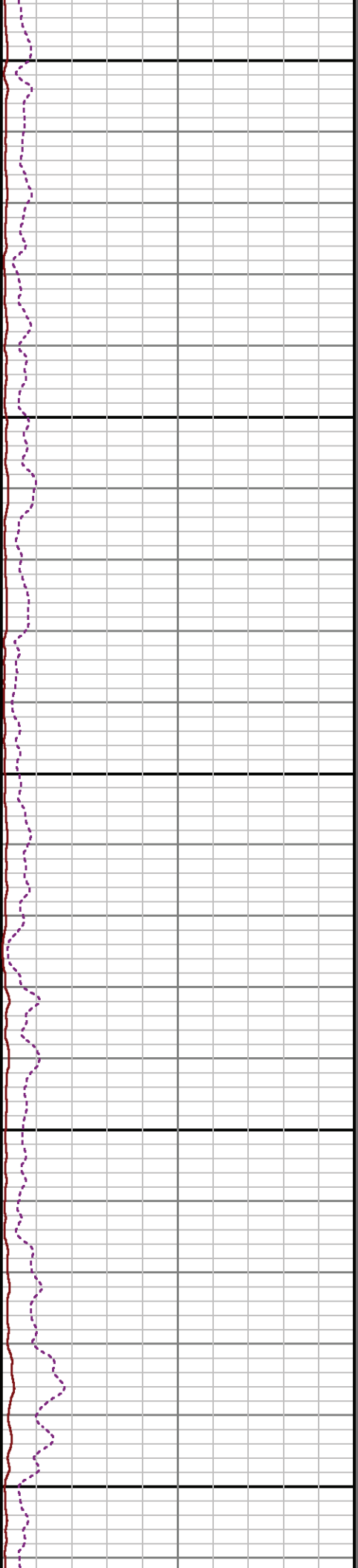
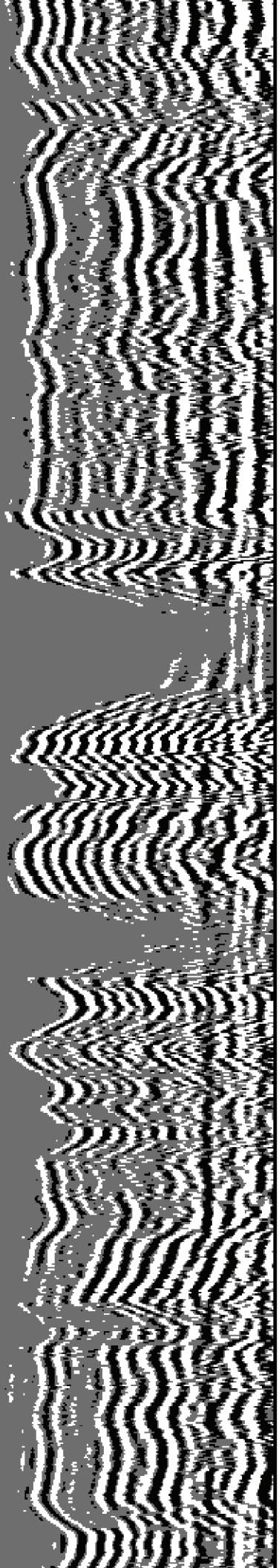








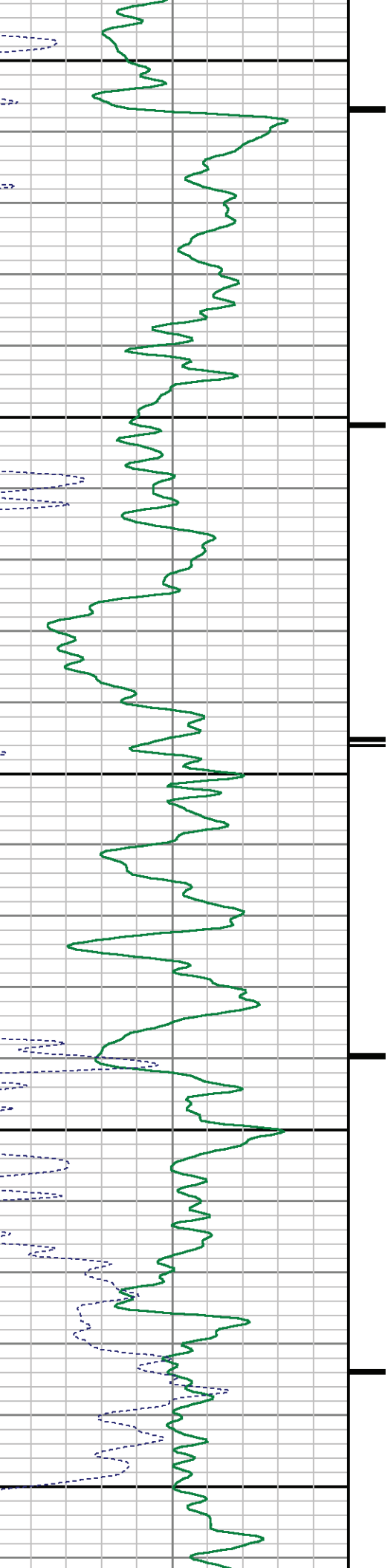


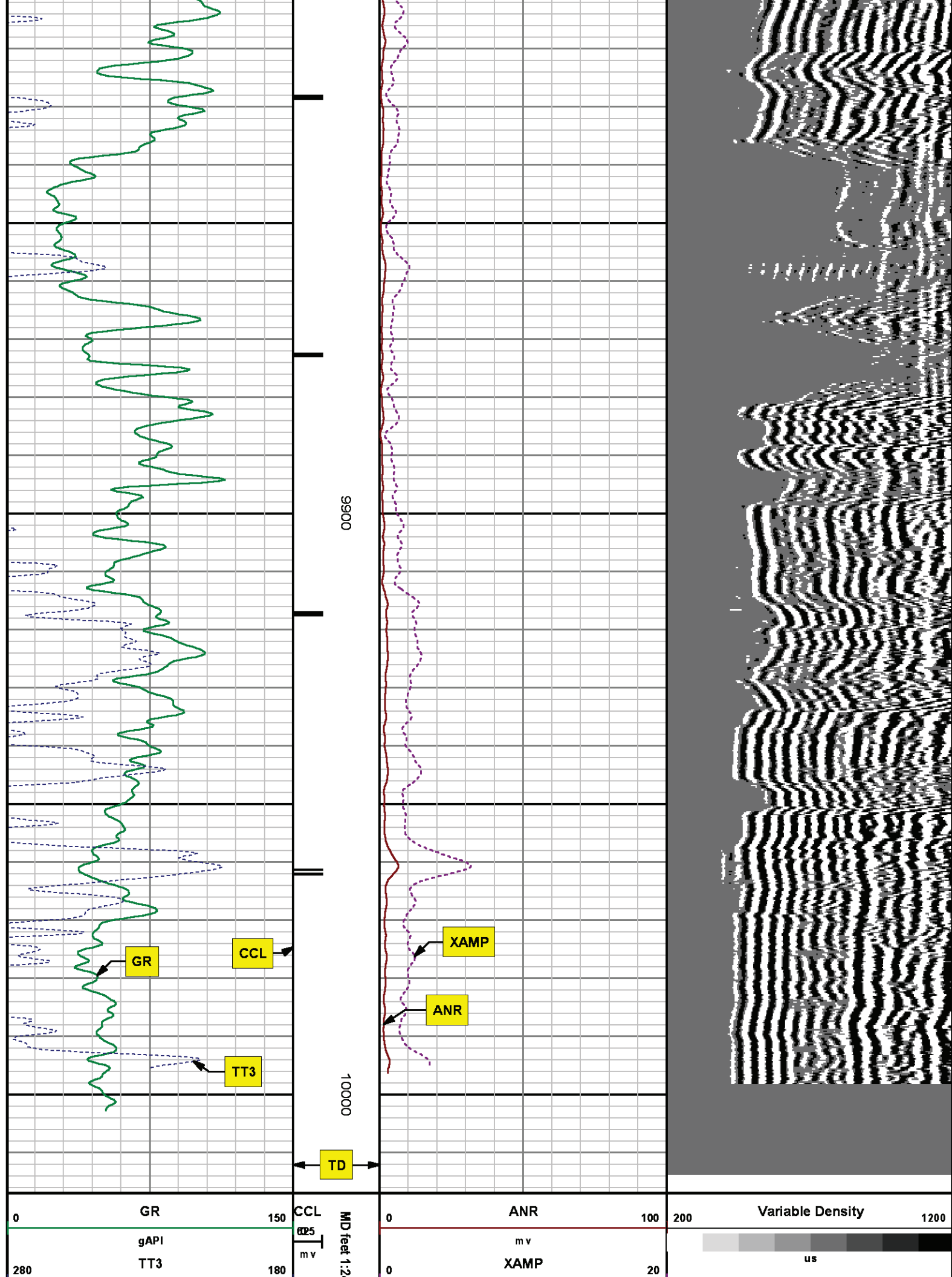


0096

9700

0080





u sec

00

m v

SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	35.129	10013.250
RAL	Amp Gate Start Near	195.000	u sec	35.129	10013.250
RAL	Amp Gate Start Radial	195.000	u sec	35.129	10013.250
RAL	Amp Gate Width Far	25.000	u sec	35.129	10013.250
RAL	Amp Gate Width Near	25.000	u sec	35.129	10013.250
RAL	Amp Gate Width Radial	25.000	u sec	35.129	10013.250
RAL	casing od	4.500	inches	35.129	10013.250
RAL	casing wt	11.600	lbm/ft	35.129	10013.250
RAL	FB Start Far	291.900	u sec	35.129	10013.250
RAL	FB Start Near	175.391	u sec	35.129	10013.250
RAL	FB Start Radial	175.391	u sec	35.129	10013.250
RAL	FB Thresh Far	10.000	mv	35.129	10013.250
RAL	FB Thresh Near	4.000	mv	35.129	10013.250
RAL	FB Thresh Radial	4.000	mv	35.129	10013.250
RAL	Fluid Travel Time	200.000	u sec/ft	35.129	10013.598

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	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	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					