



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH79529 Company WPX ENERGY

Well FEDERAL RU 313-5

API No: 05045217690000 Field RULISON

County GARFIELD State CO

Location Other Services

5 7S 93W SHL: 243' FNL & 2610' FWL RPM

RU 23-5 PAD BHL: 1260' FSL & 460' FWL

NABORS 576 SEC 5 TWP 7S RGE 93W

Permanent Datum GL Elevation 7602 ft

Log Measured From KB 26 ft Above P. D.

Drill Measured From KB Elevations KB 7628 ft DF GL 7602 ft

Date 26/NOV/13

Run ONE

Service Order US625037

Depth Driller 10346 ft

Depth Logger 10331 ft

Bottom Logged Interval 10321 ft

Top Logged Interval 26 ft

Time Started 8:30

Time Finished 13:00

Operator Rig Time 4.5 HOURS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 70 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 242 degF

Reference Log NA

Reference Log Date NA

Equipment No. 4271 Location GRAND JCT.

Recorded By TIM 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	1155 ft
8.75 In	1155 ft	10423 ft

Casing Record

Size	Weight	Grade	From	To
9.625 In			0 ft	1155 ft
4.5 In	11.6 lbm/ft	HCP-110	0 ft	10423 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 4 feet.

Logged with zero PSI at wellhead.

BHT = 242 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	1355XA	10580209	CENTRALIZED

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	32.124	10349.000
RAL	Amp Gate Start Near	195.000	usec	32.124	10349.000
RAL	Amp Gate Start Radial	195.000	usec	32.124	10349.000
RAL	Amp Gate Width Far	25.000	usec	32.124	10349.000
RAL	Amp Gate Width Near	25.000	usec	32.124	10349.000
RAL	Amp Gate Width Radial	25.000	usec	32.124	10349.000
RAL	casing od	4.500	inches	32.124	10349.000
RAL	casing wt	11.600	lbm/ft	32.124	10349.000
RAL	FB Start Far	291.900	usec	32.124	10349.000
RAL	FB Start Near	175.391	usec	32.124	10349.000
RAL	FB Start Radial	175.391	usec	32.124	10349.000
RAL	FB Thresh Far	10.000	mv	32.124	10349.000
RAL	FB Thresh Near	4.000	mv	32.124	10349.000
RAL	FB Thresh Radial	4.000	mv	32.124	10349.000
RAL	Fluid Travel Time	200.000	usec/ft	32.124	10349.655

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	ARB	CHV	FPR2
		EDZ	EDF	EEZ	ETD1	ETD2	ETD3

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

FPR3	FPR3	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

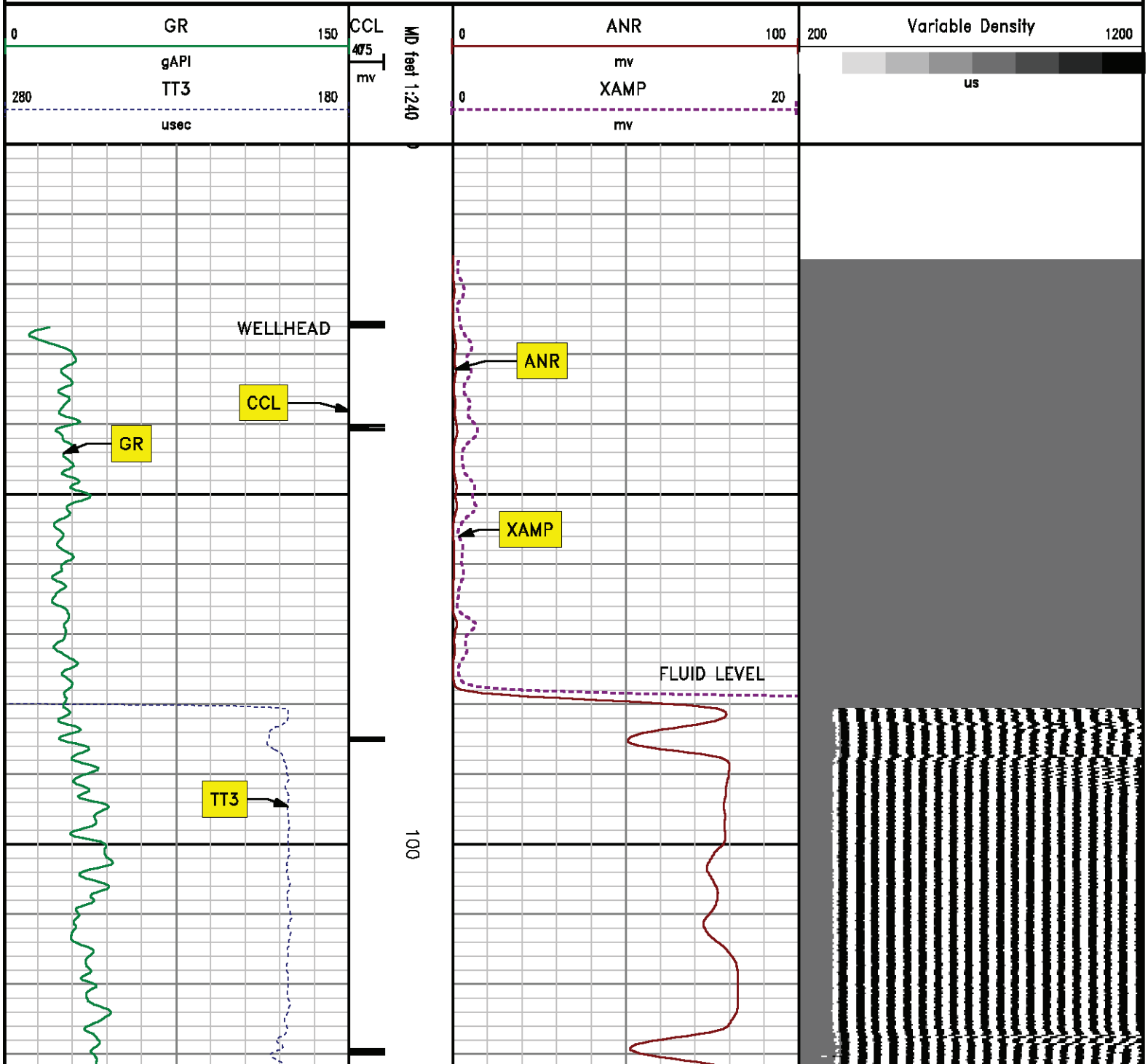
Well : FEDERAL RU 313-5

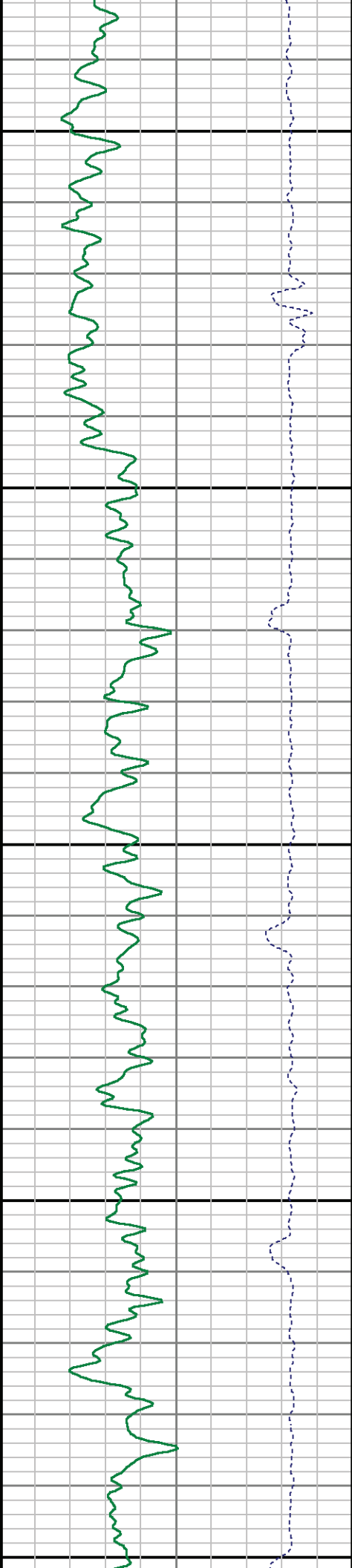
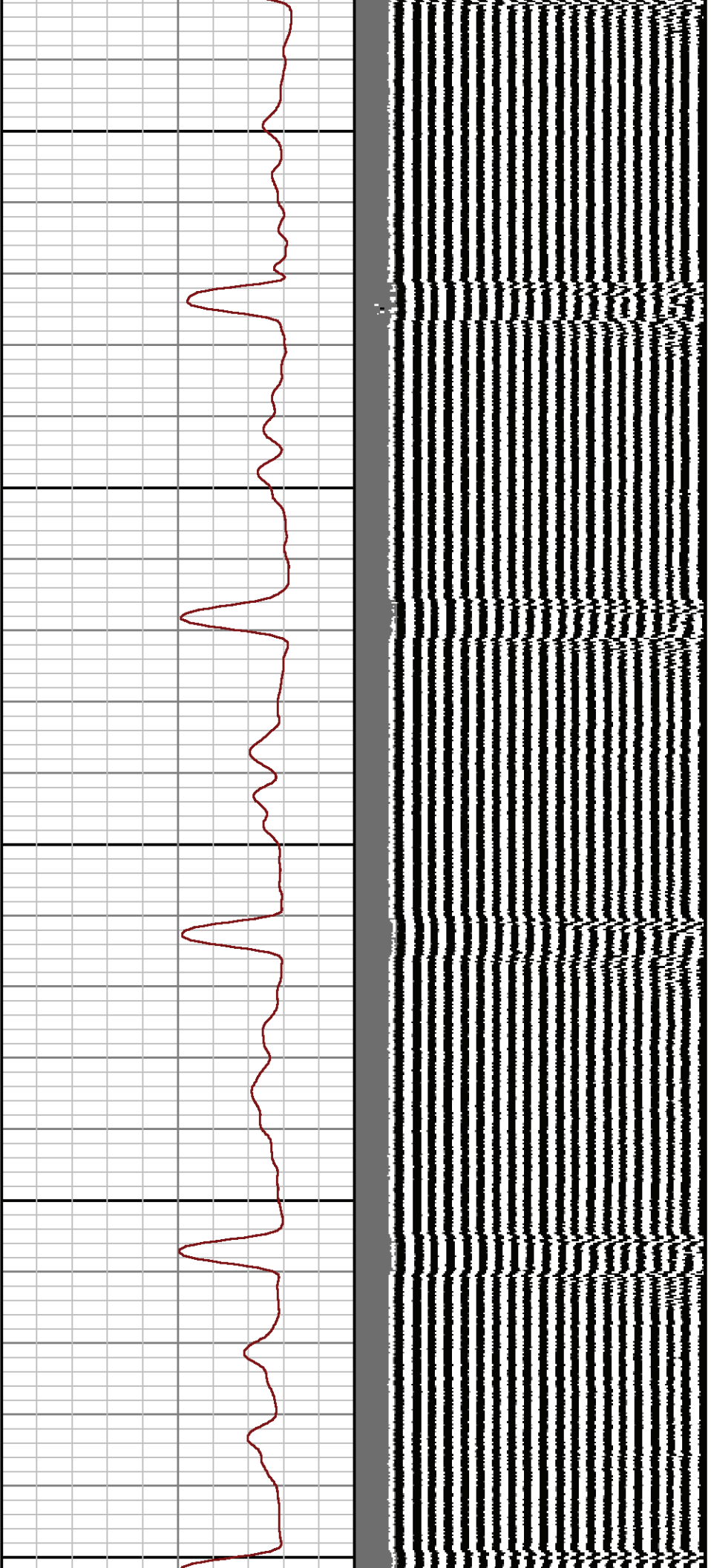
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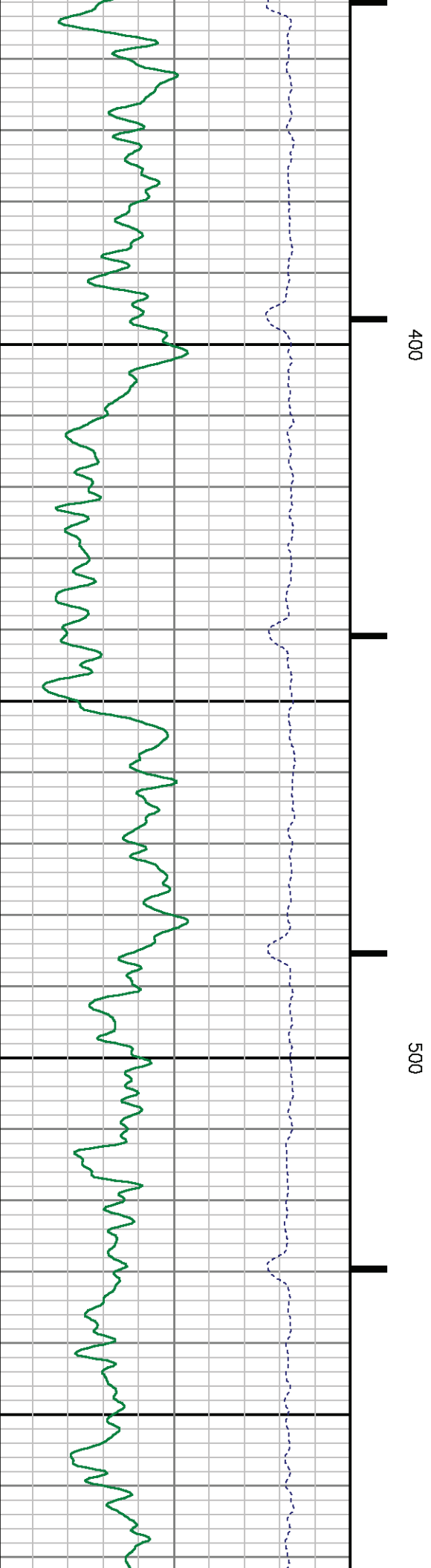
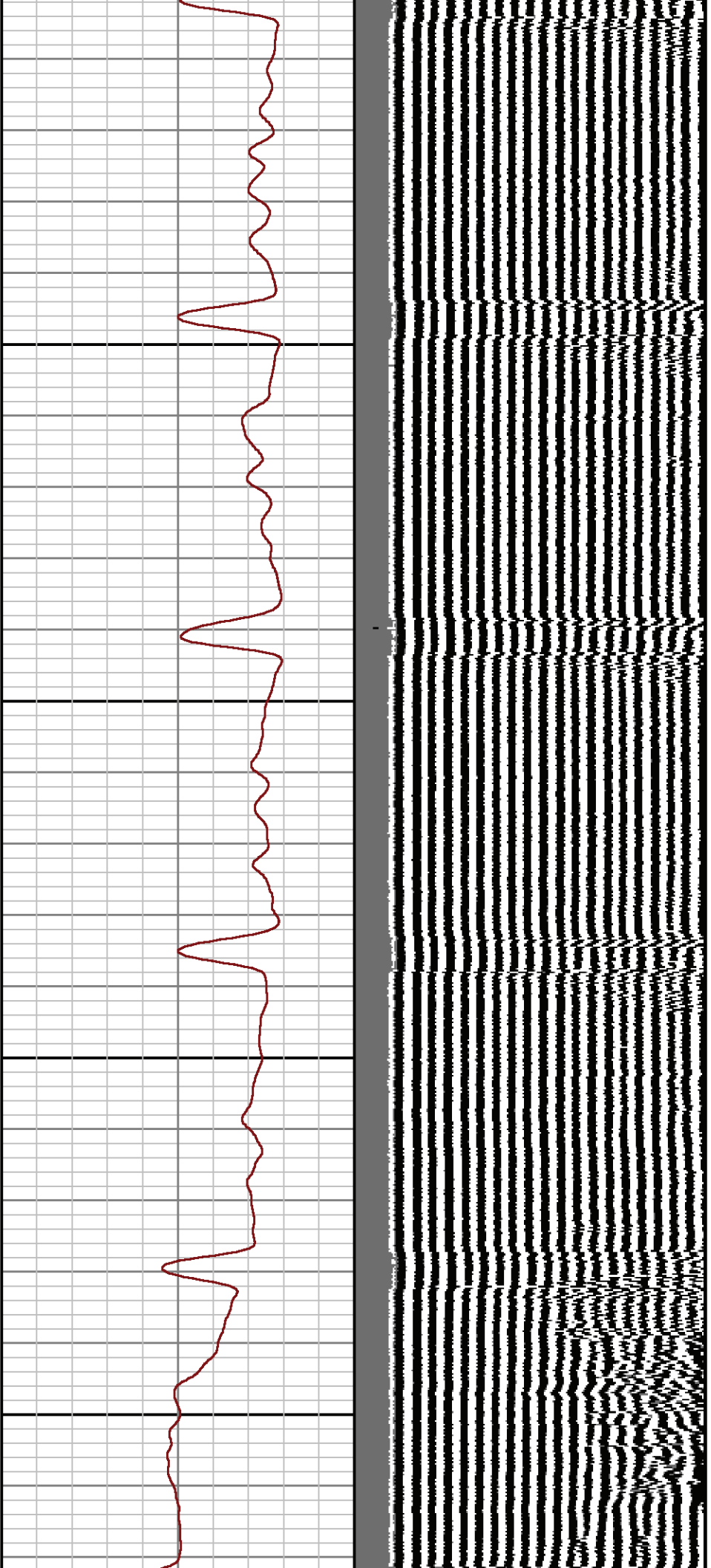
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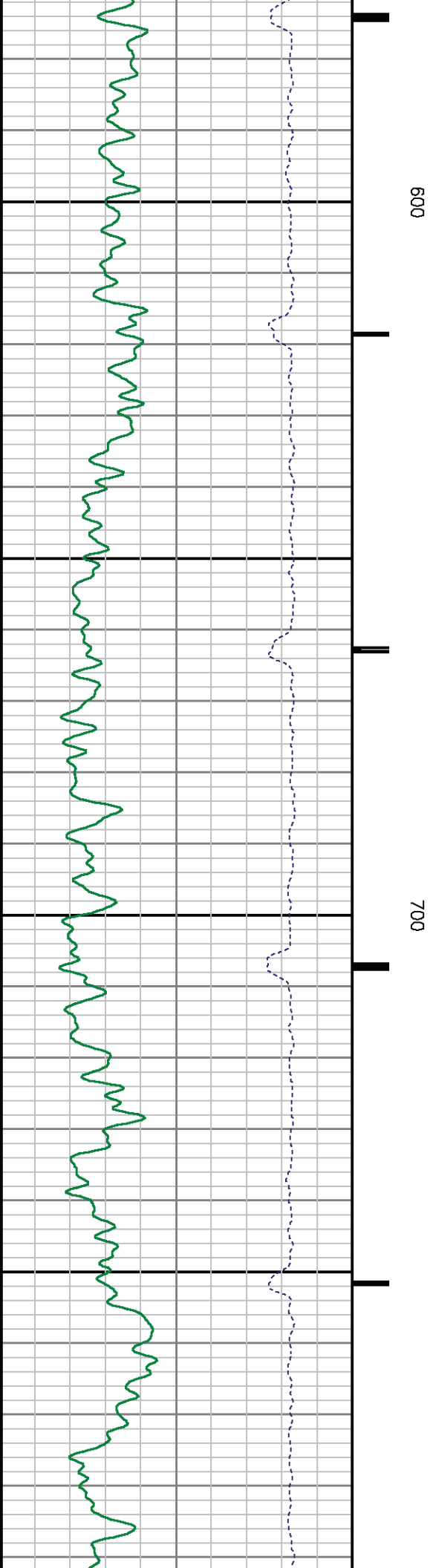
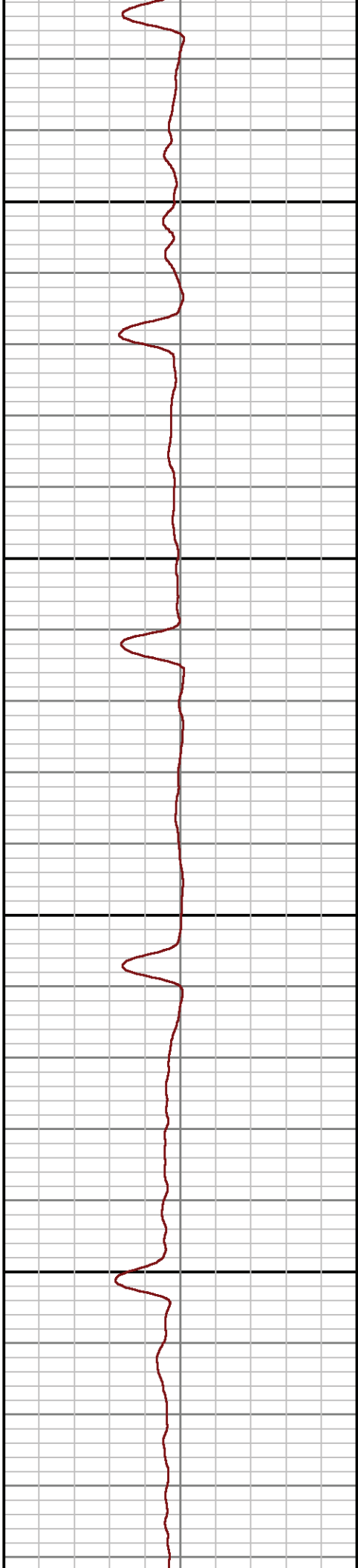
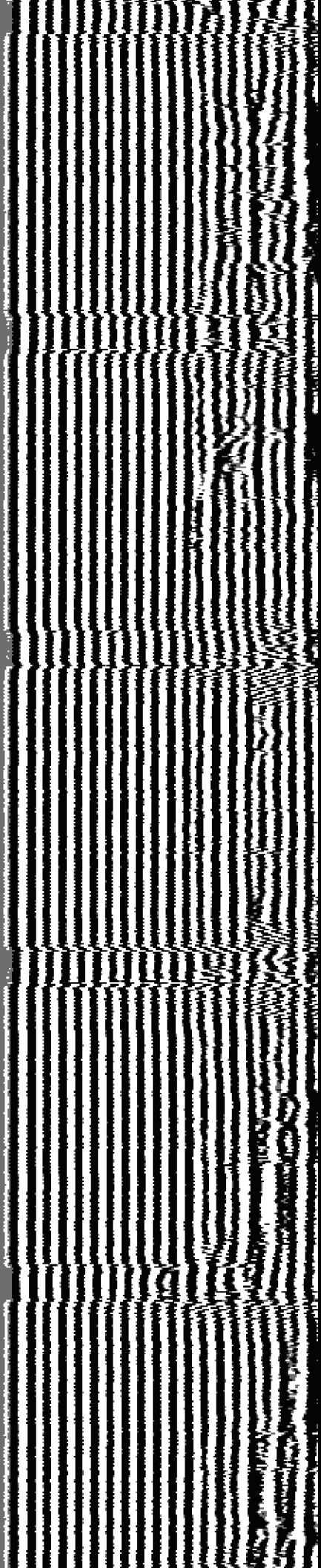
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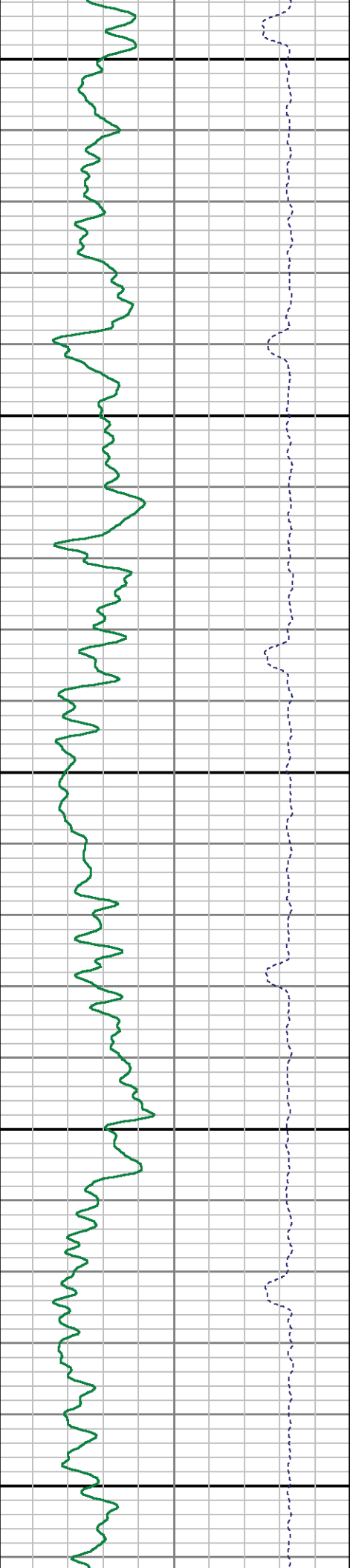
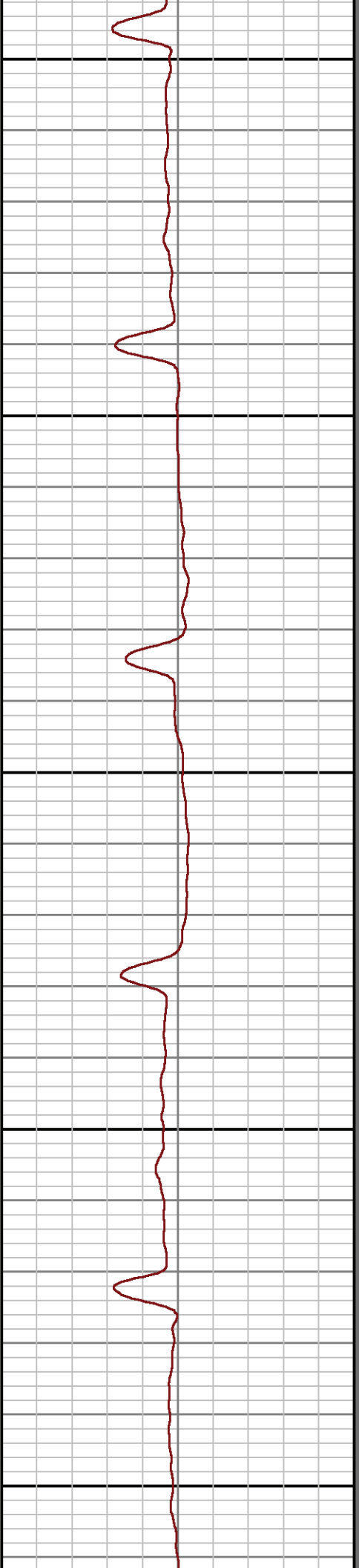
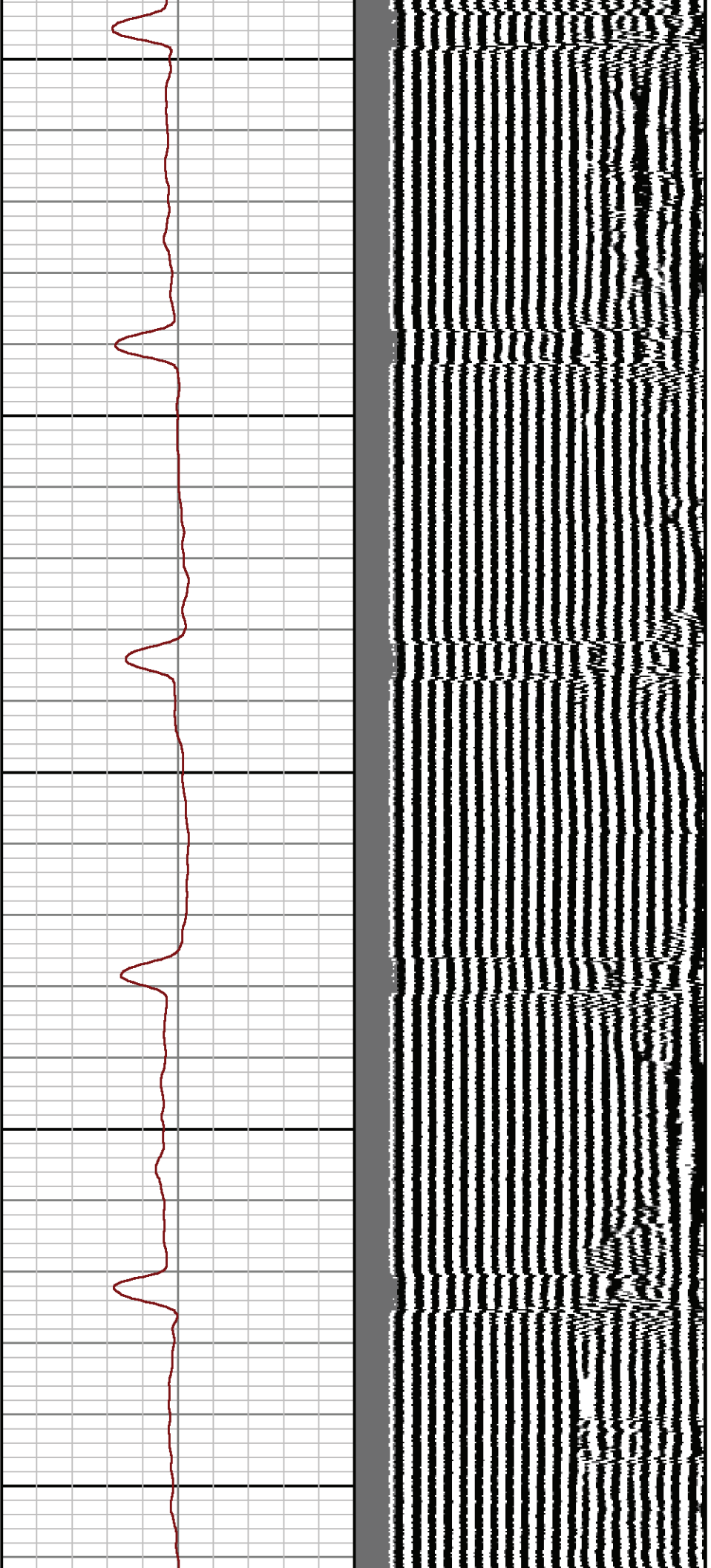
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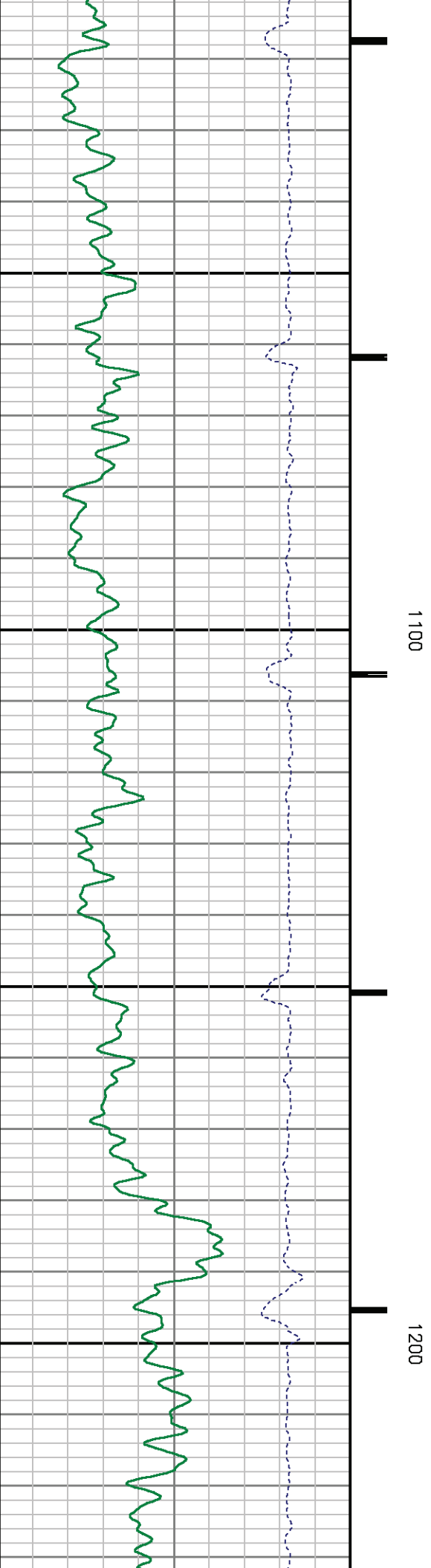
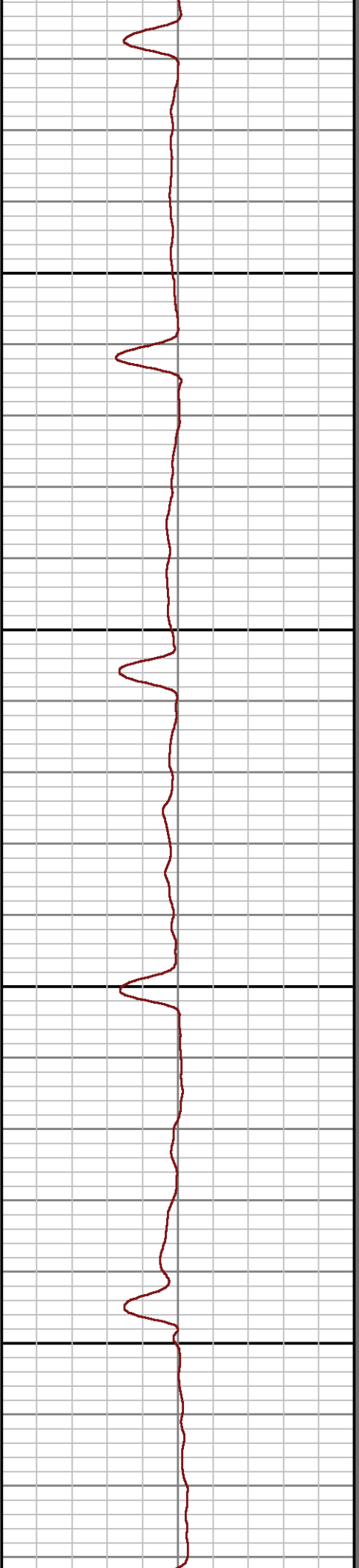
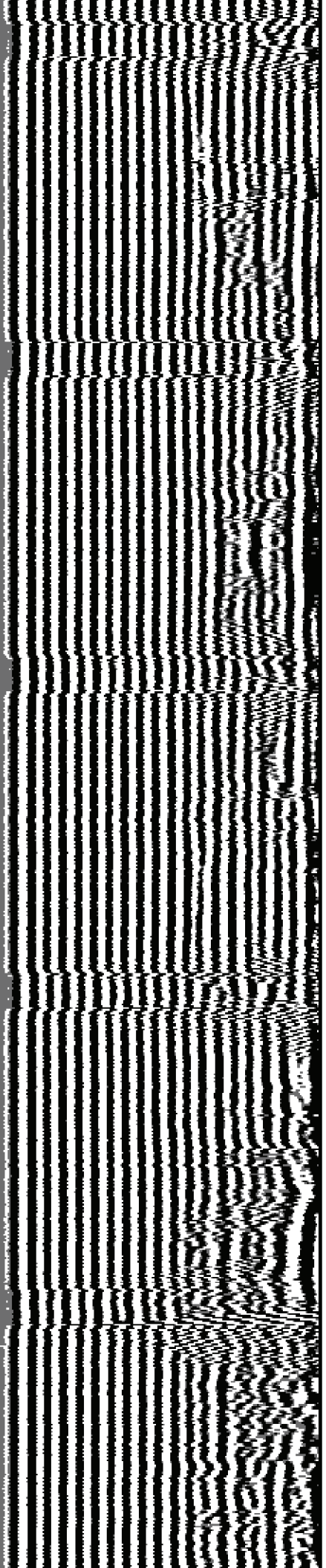


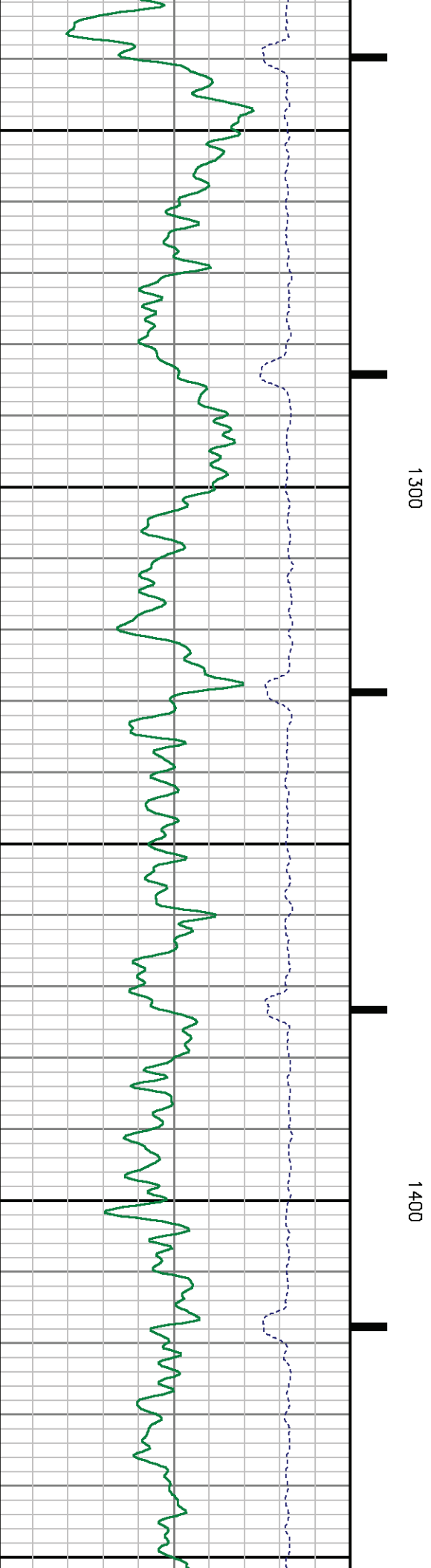
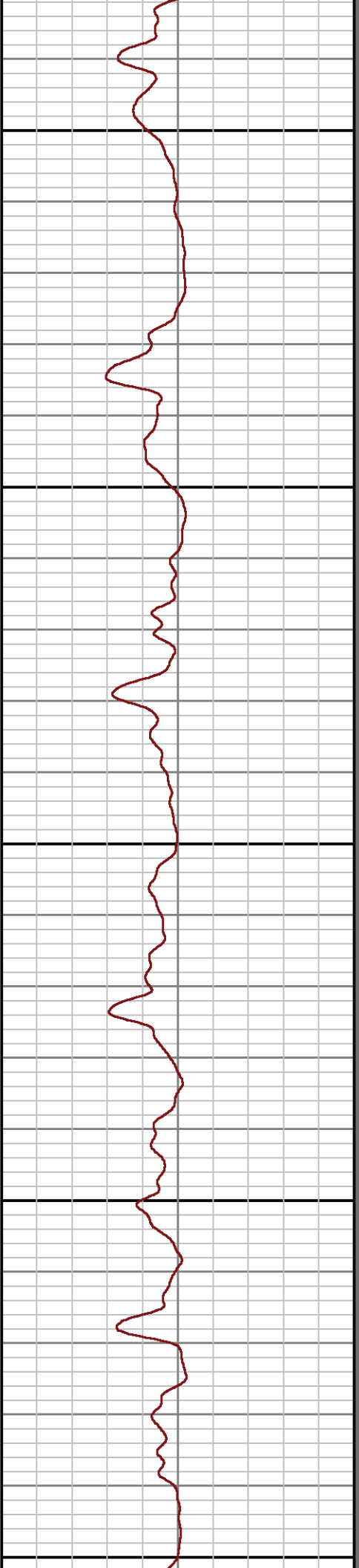
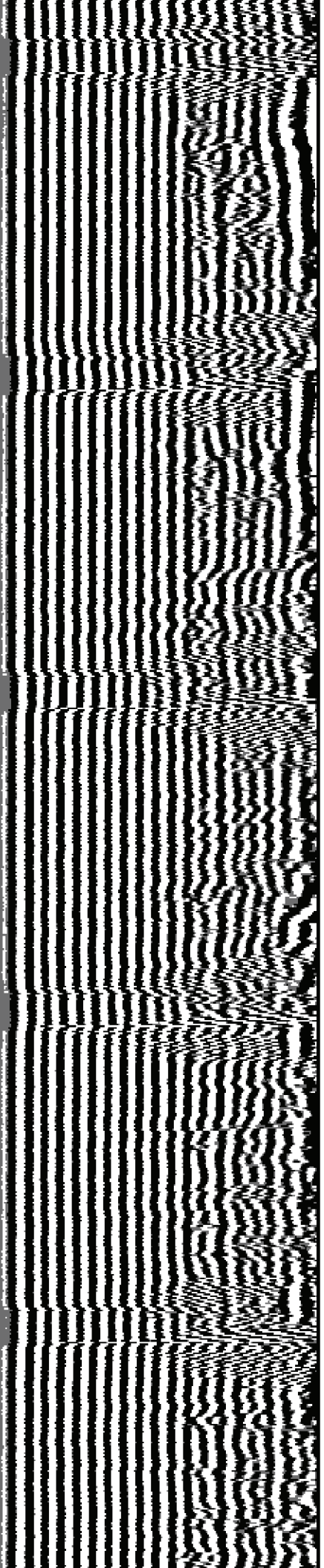


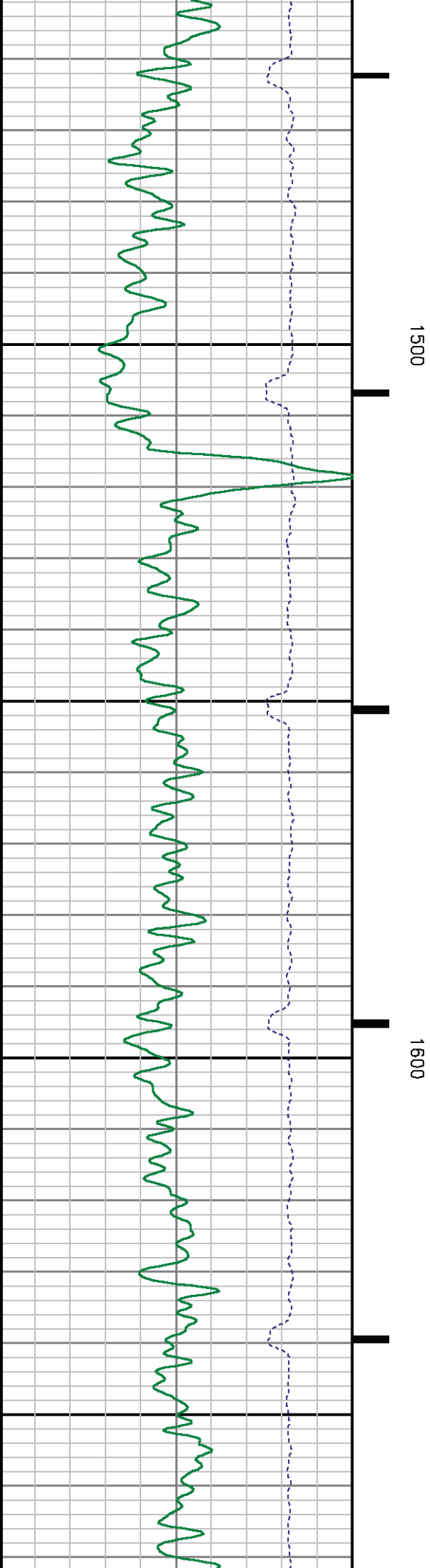
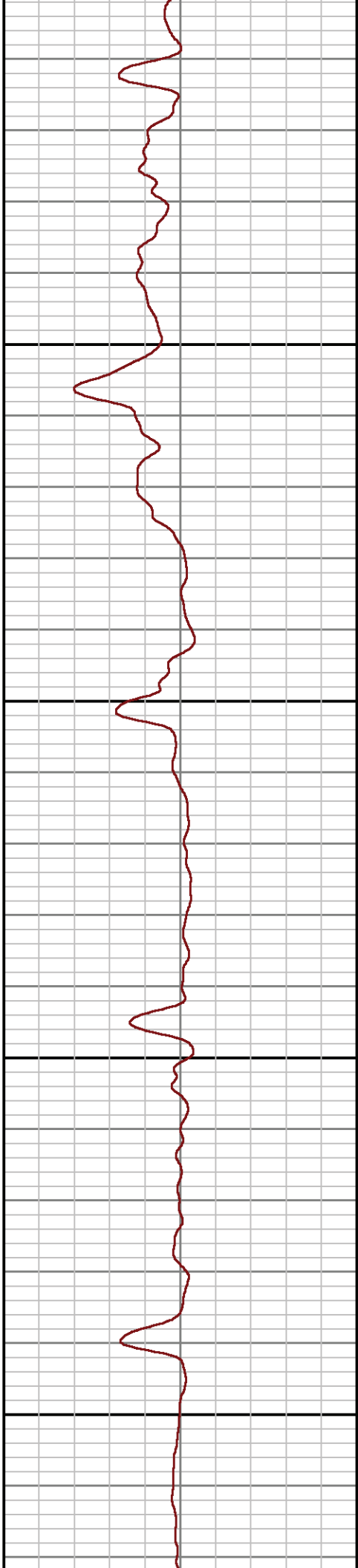
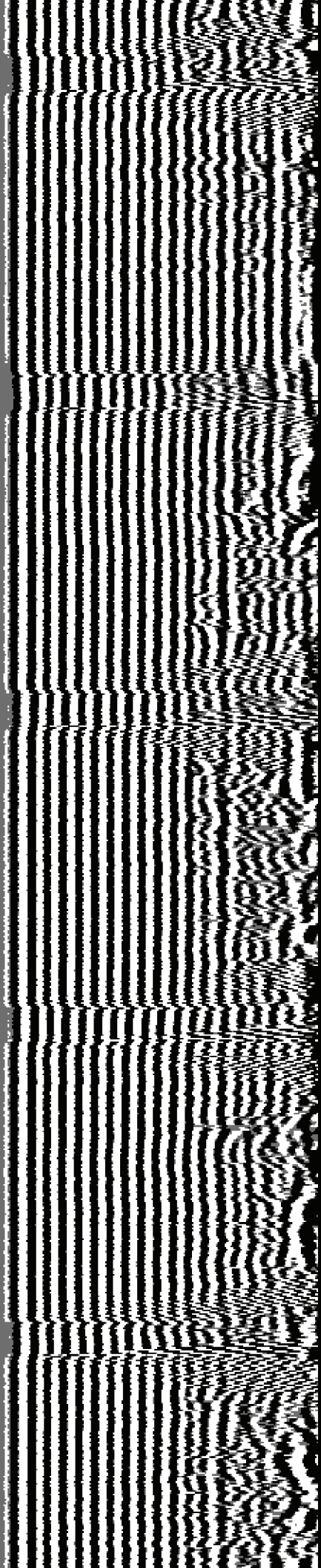


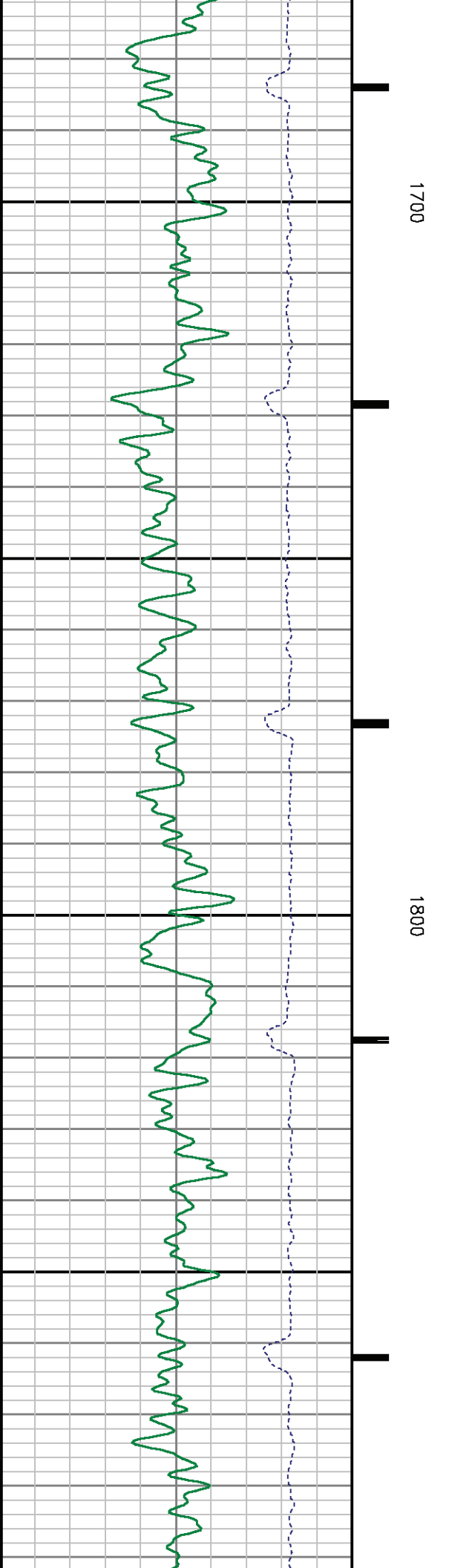
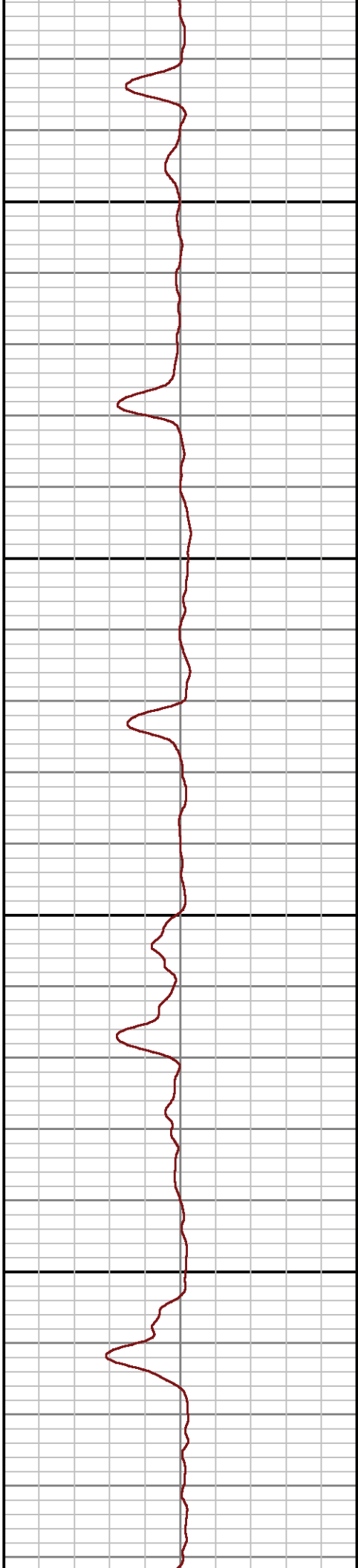
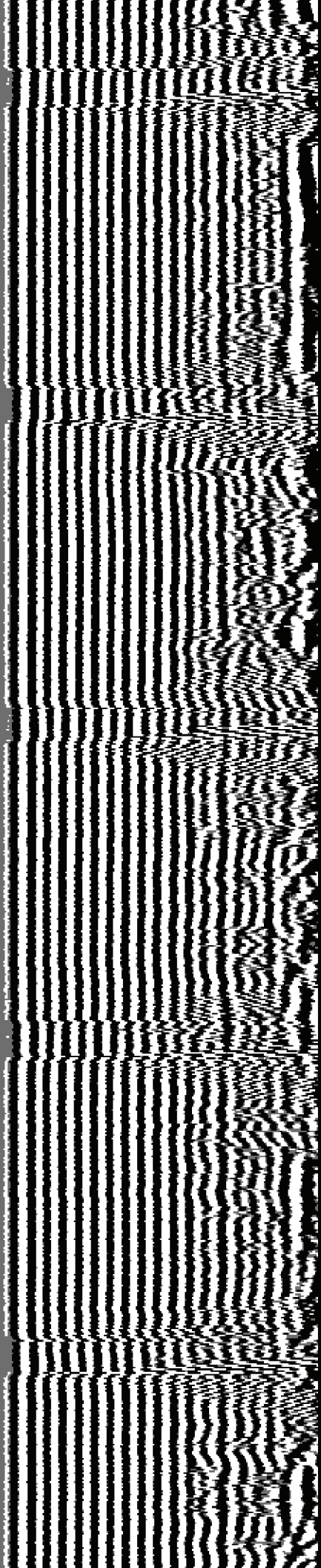


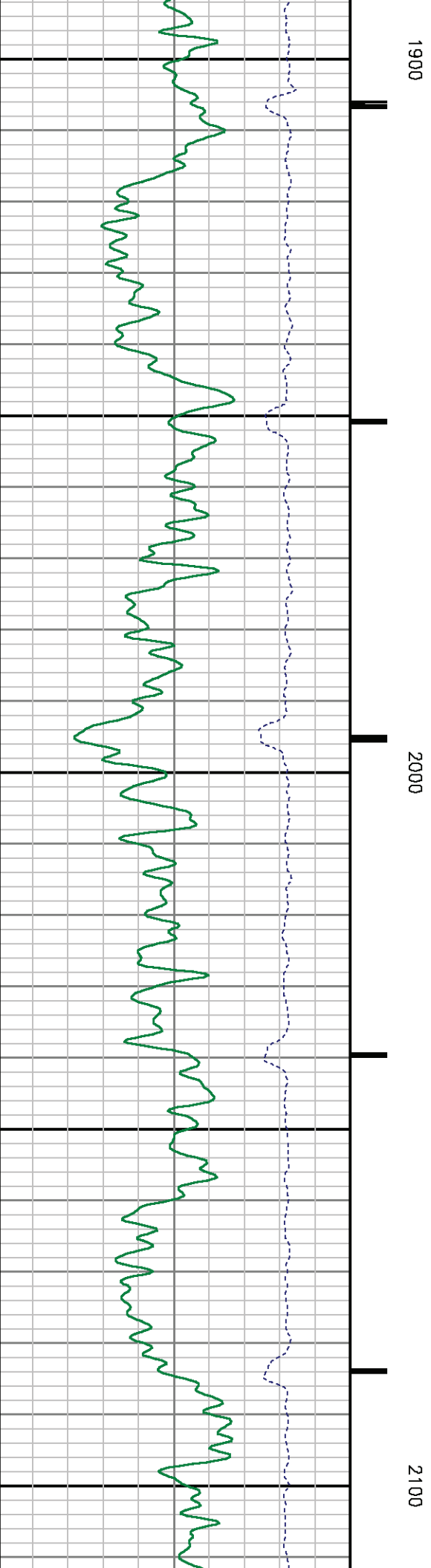
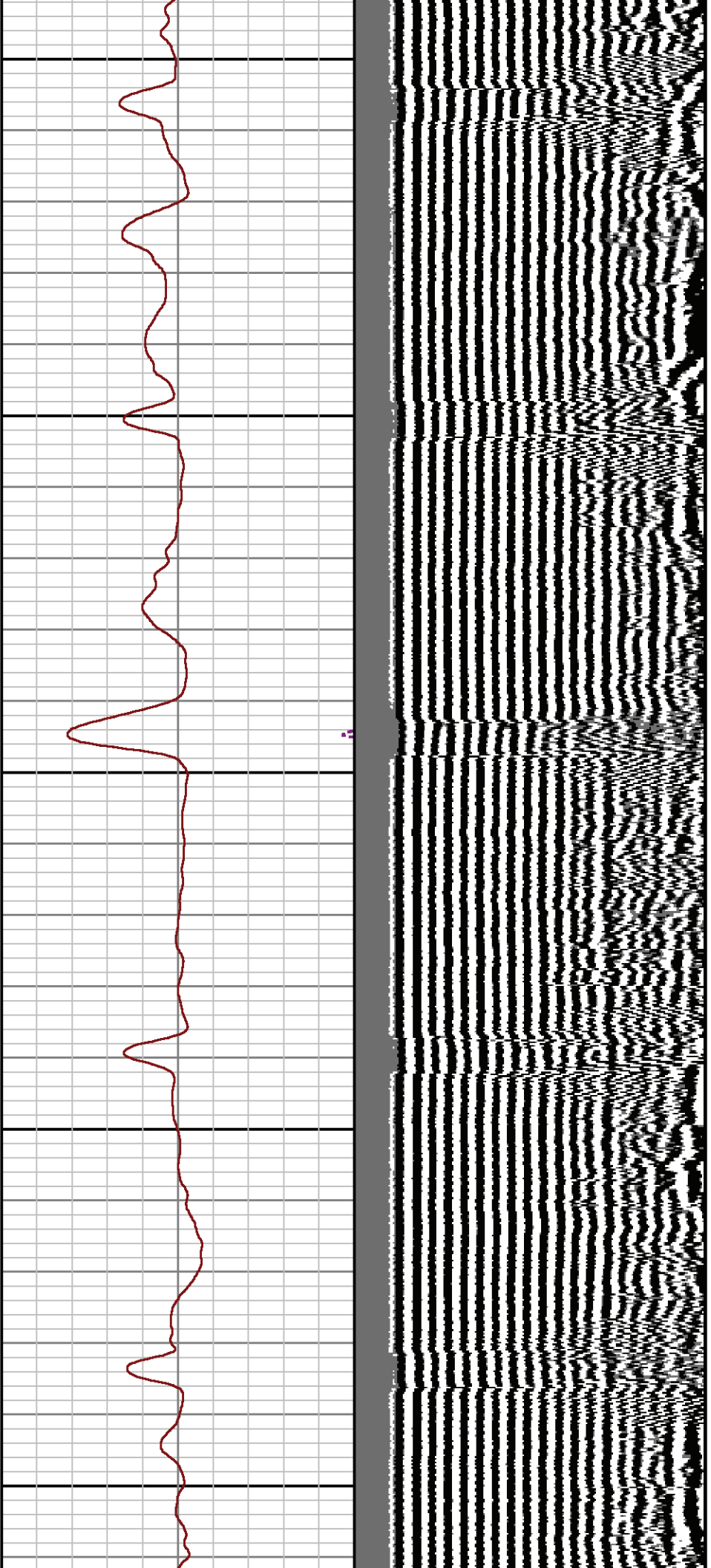


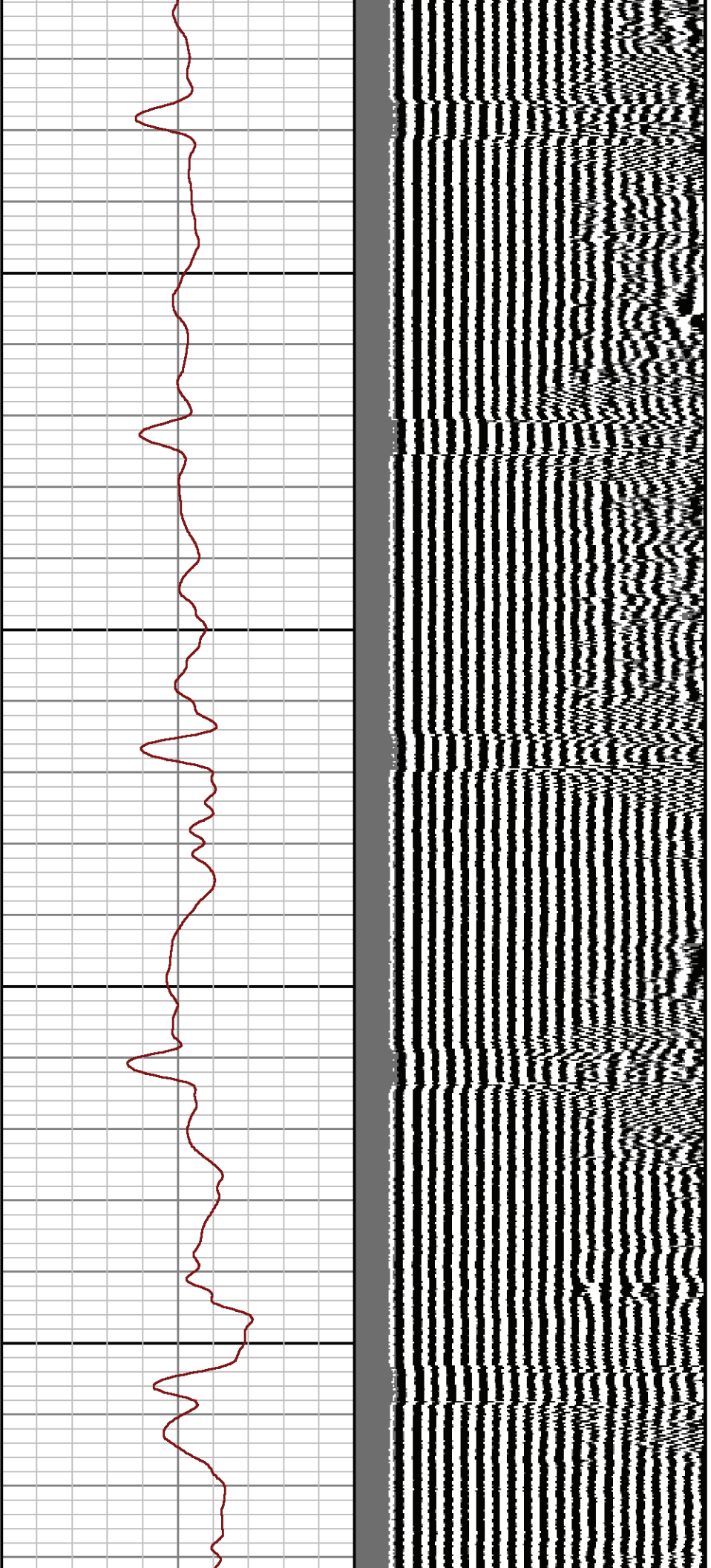






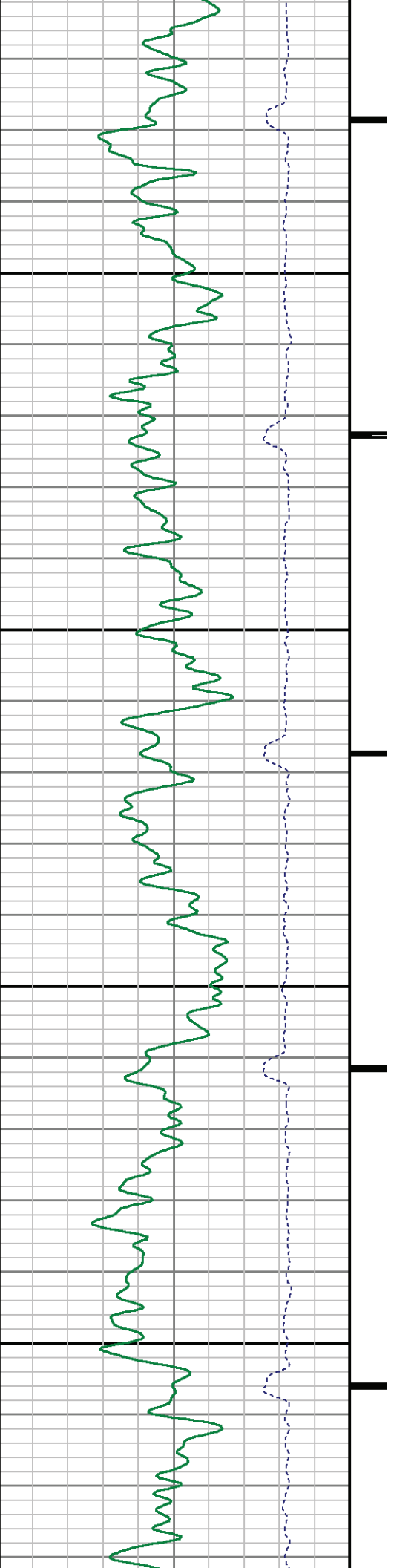


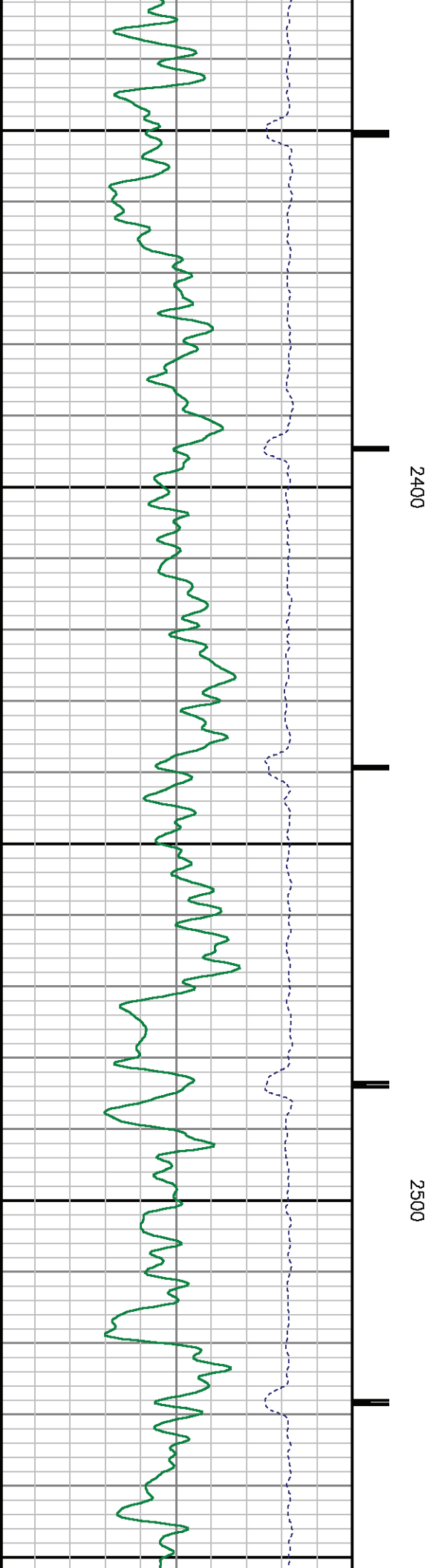
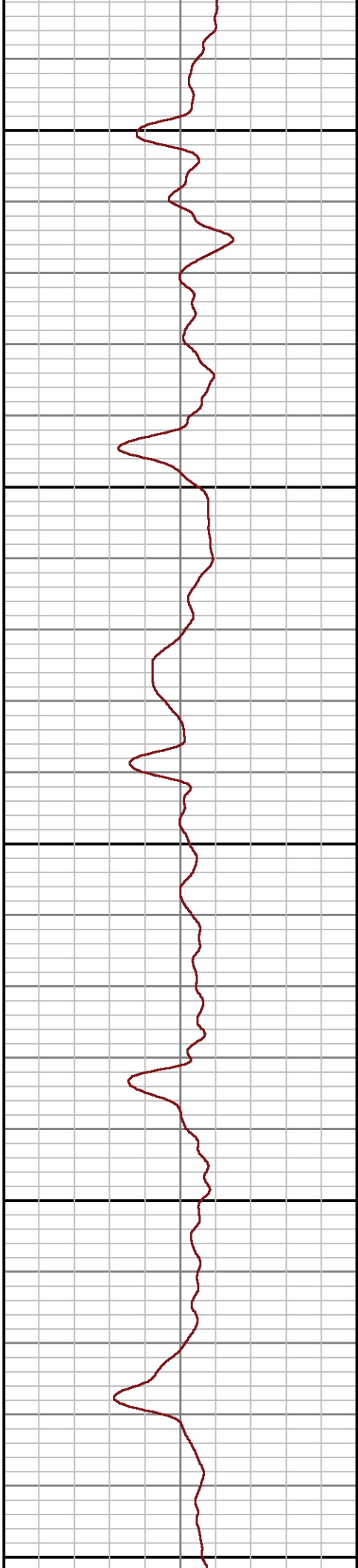
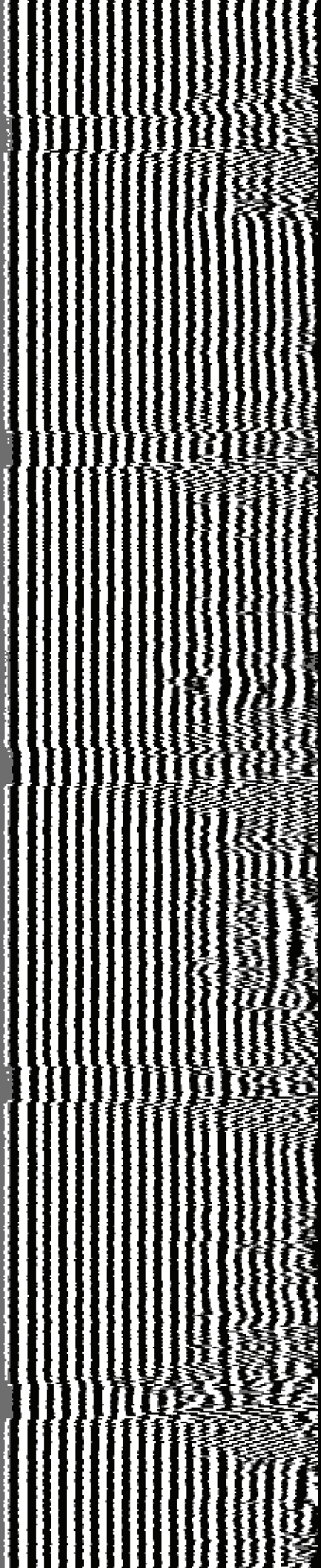


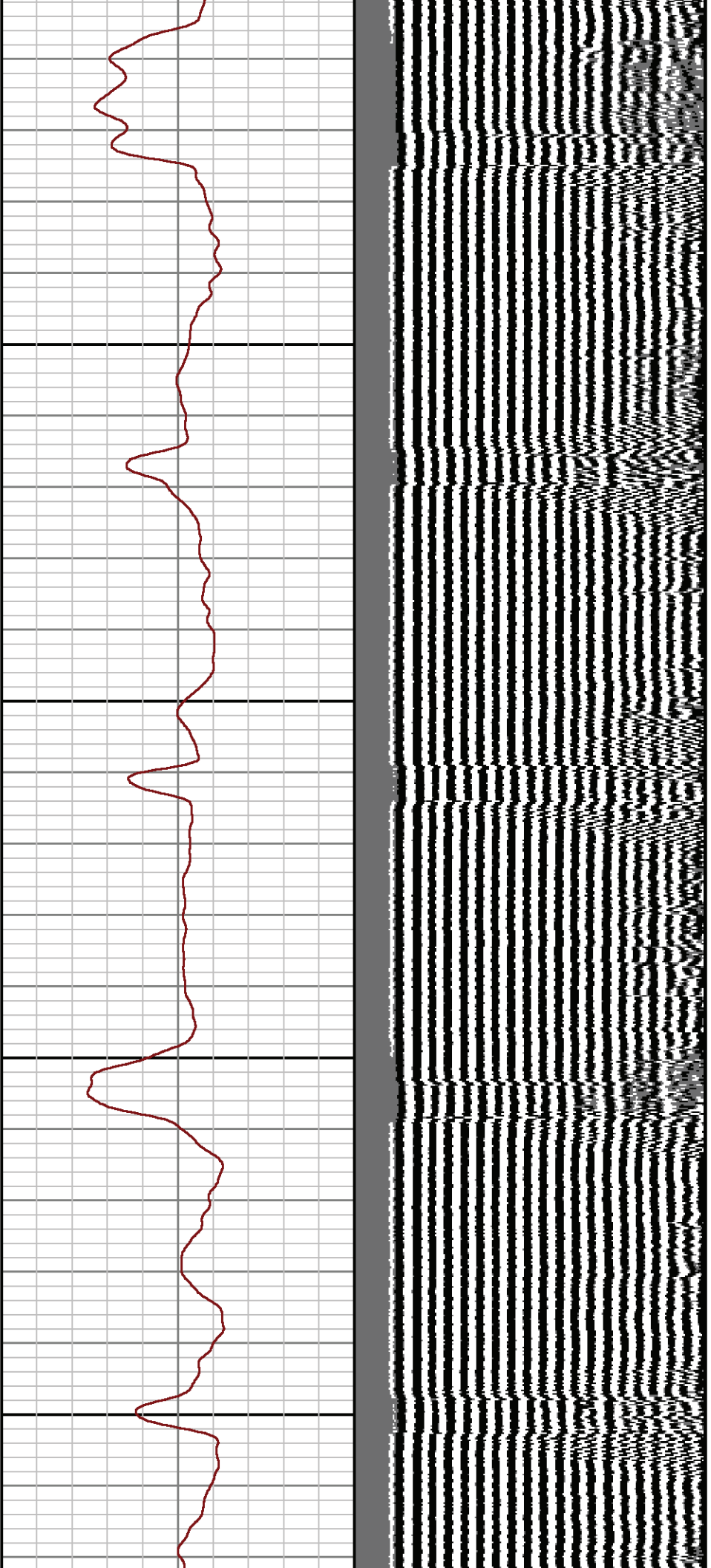


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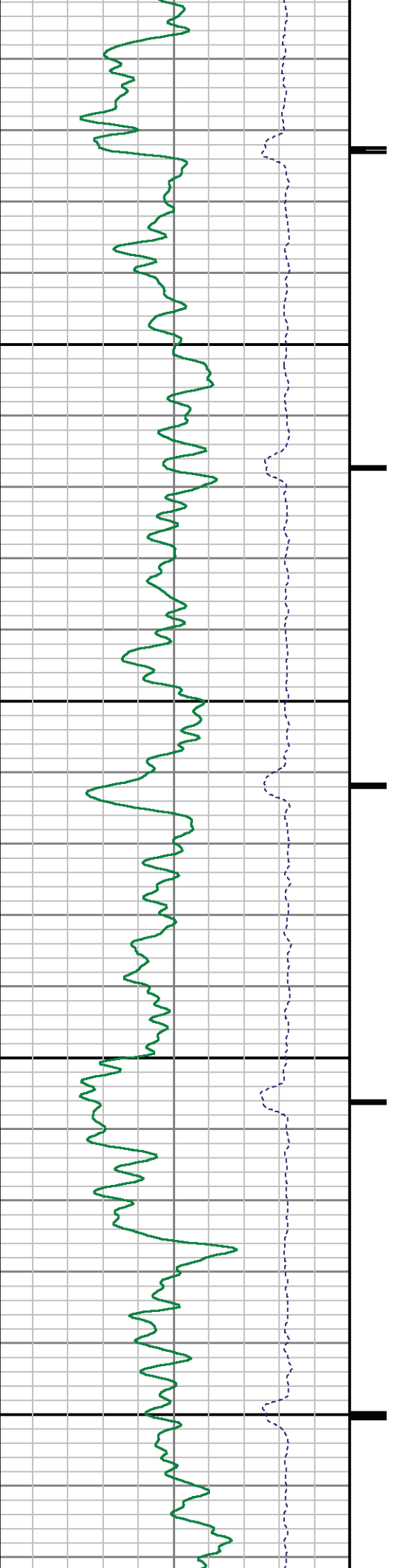


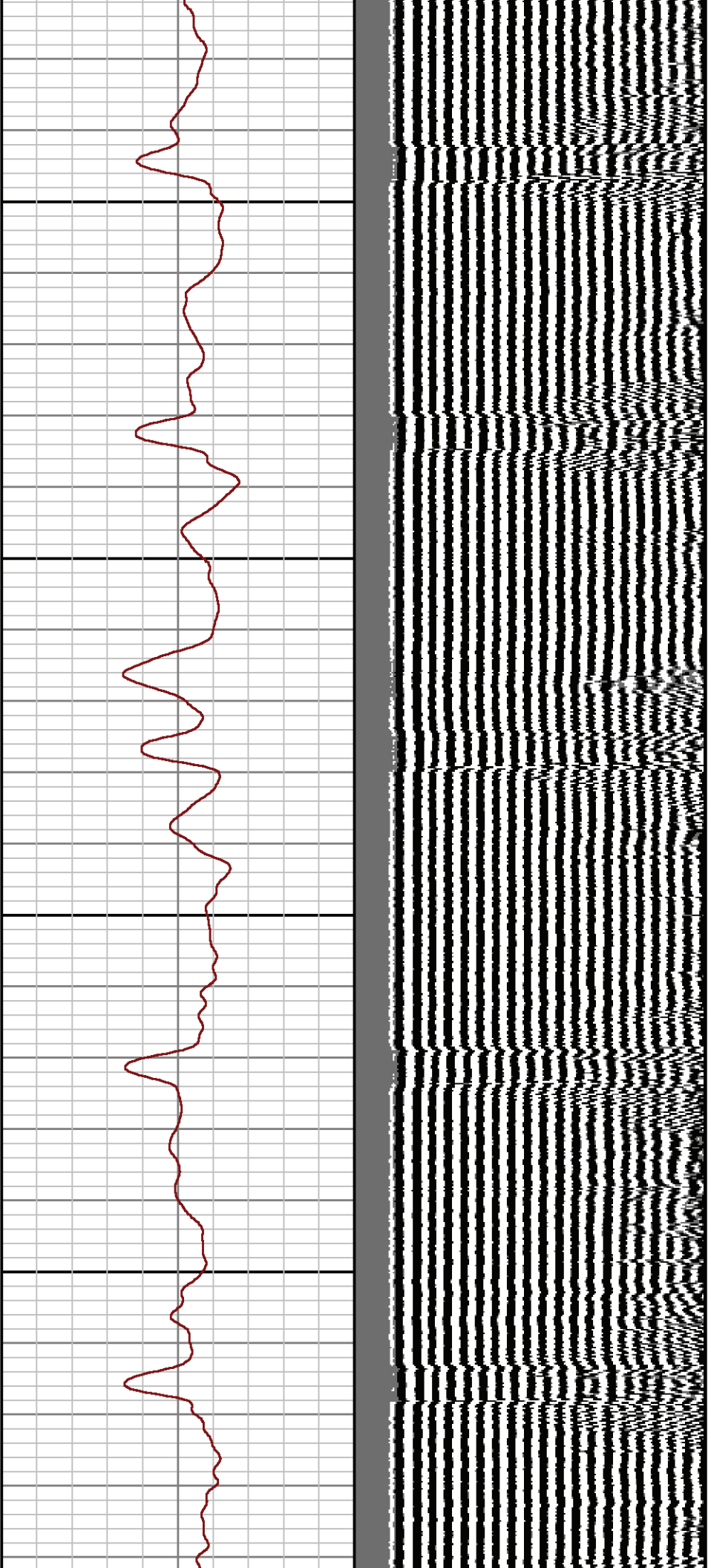




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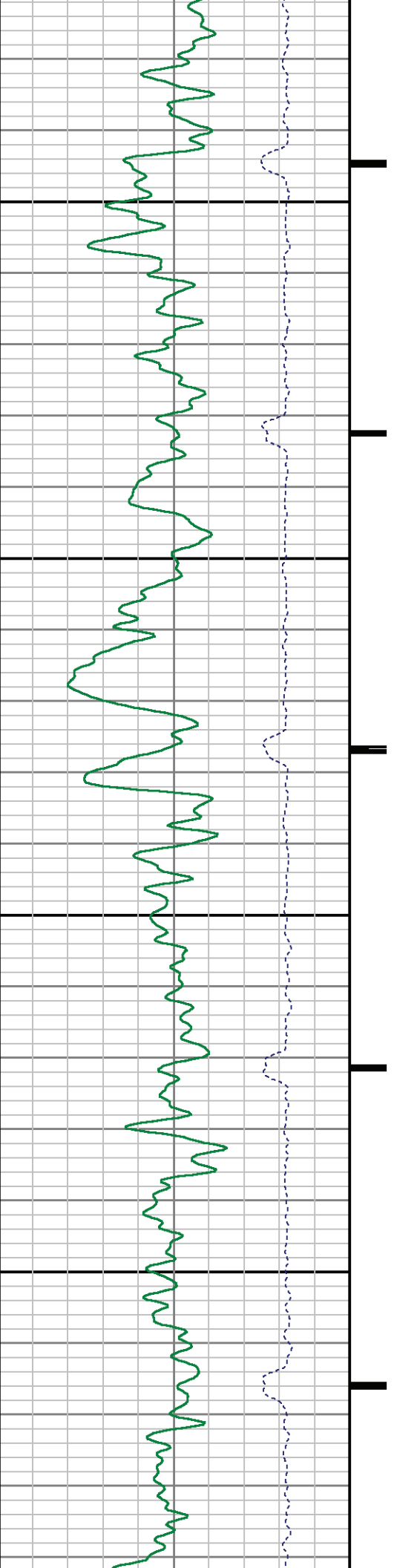
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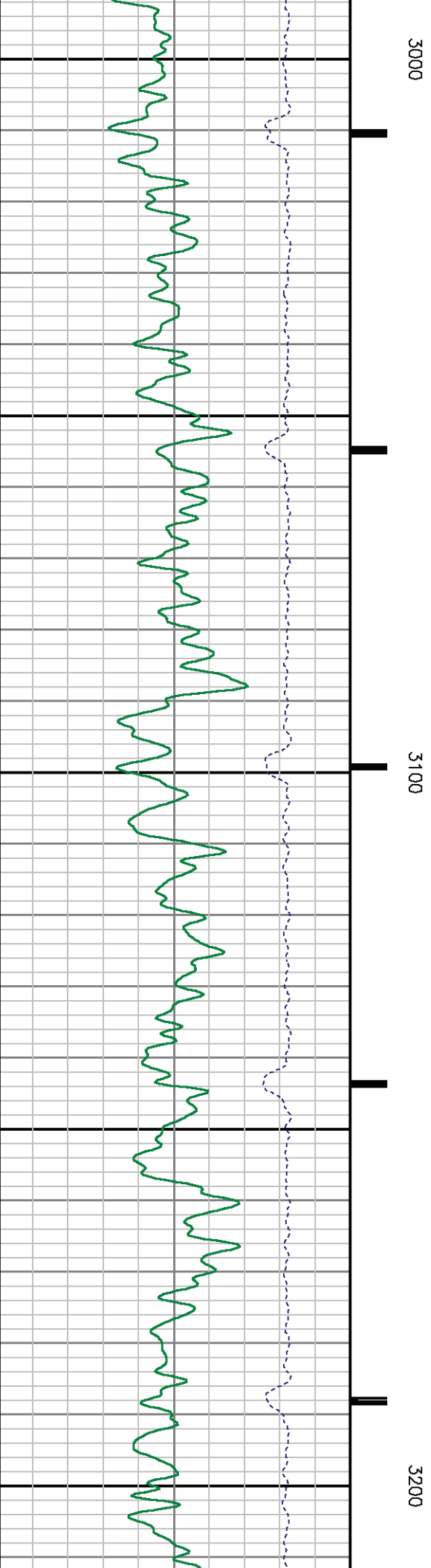
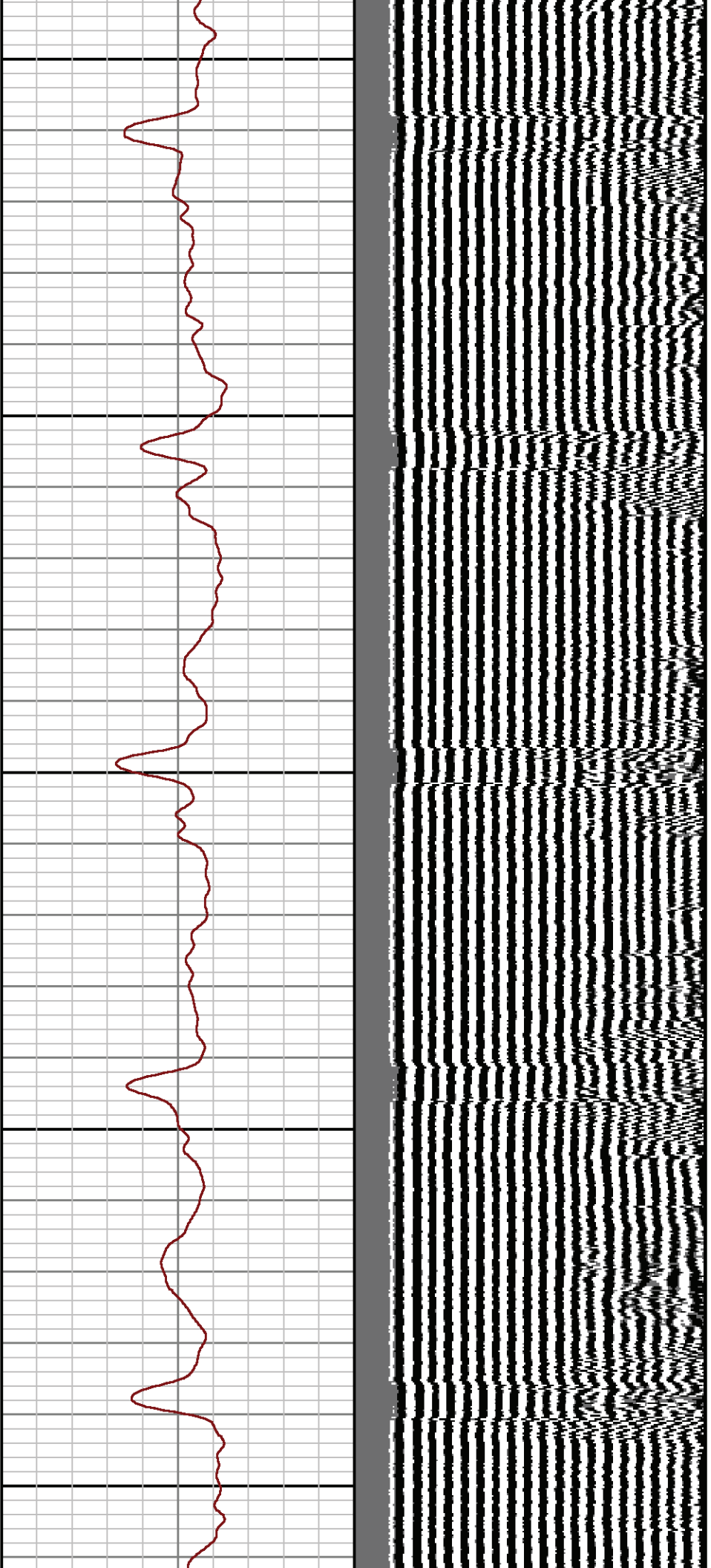


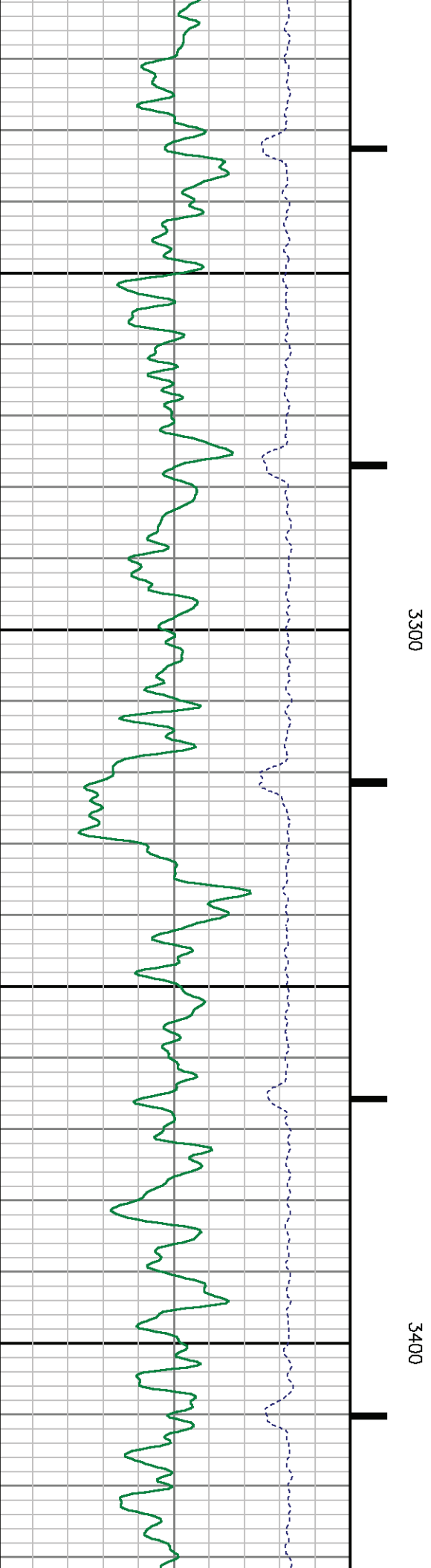
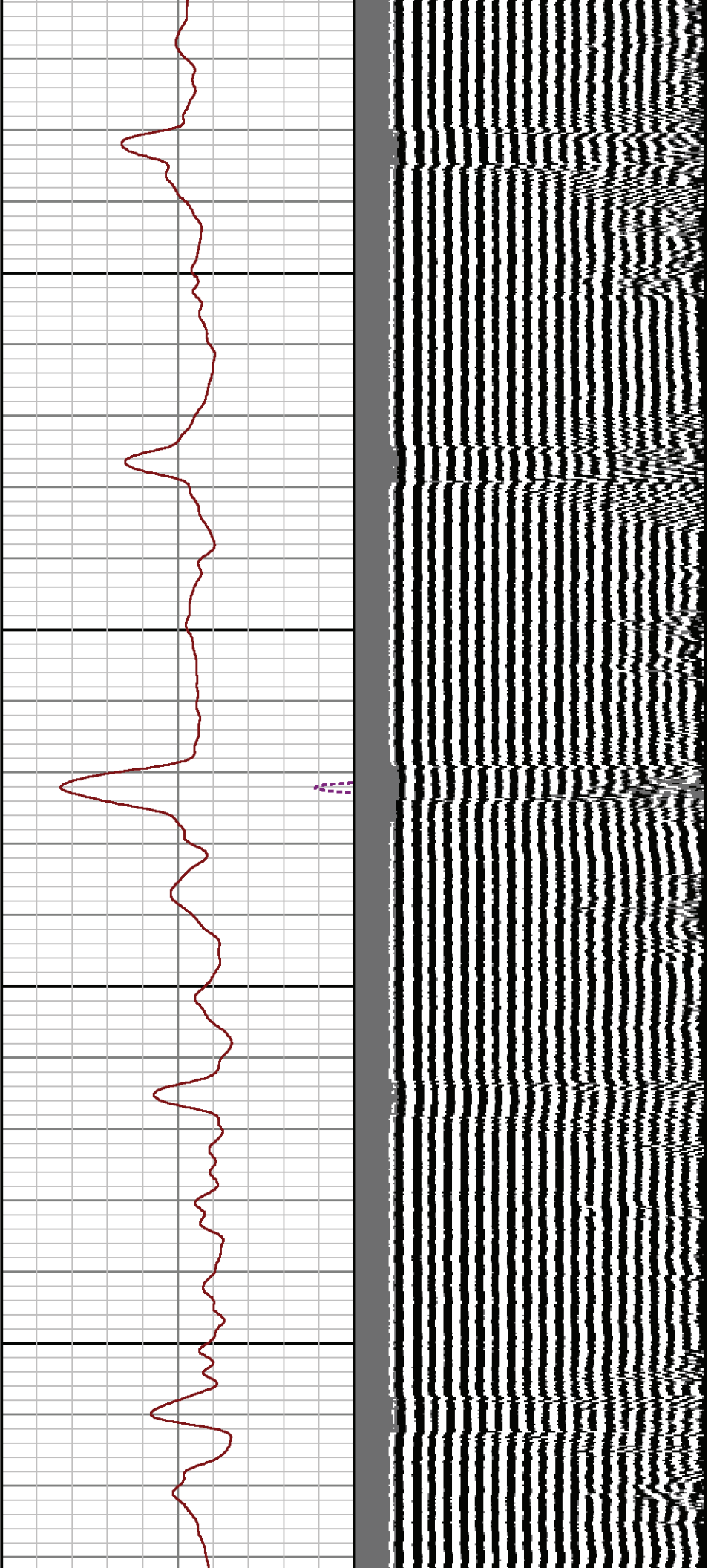


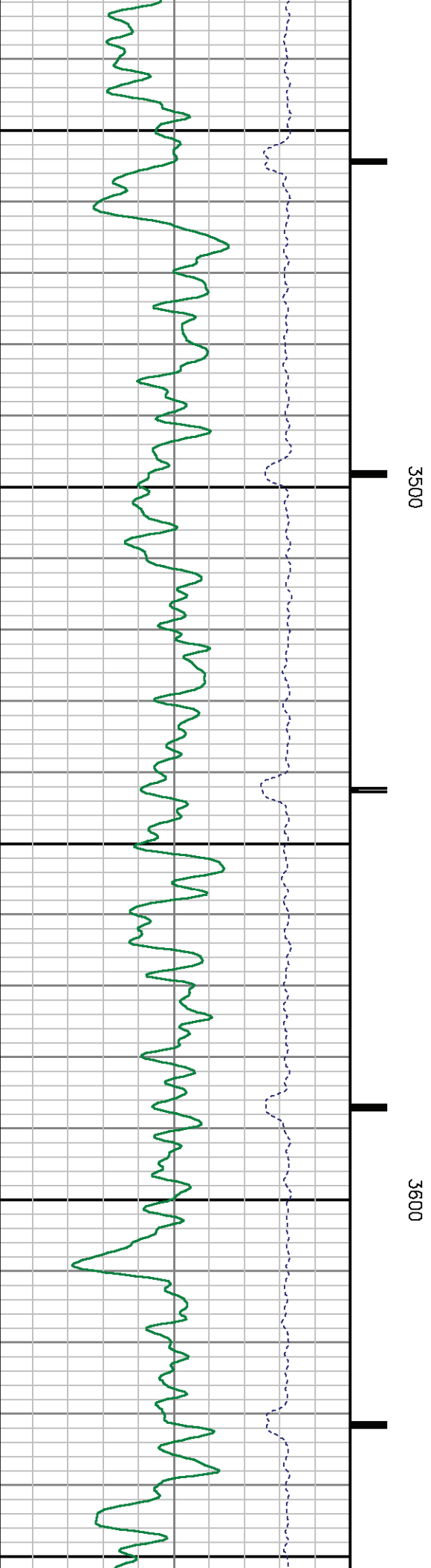
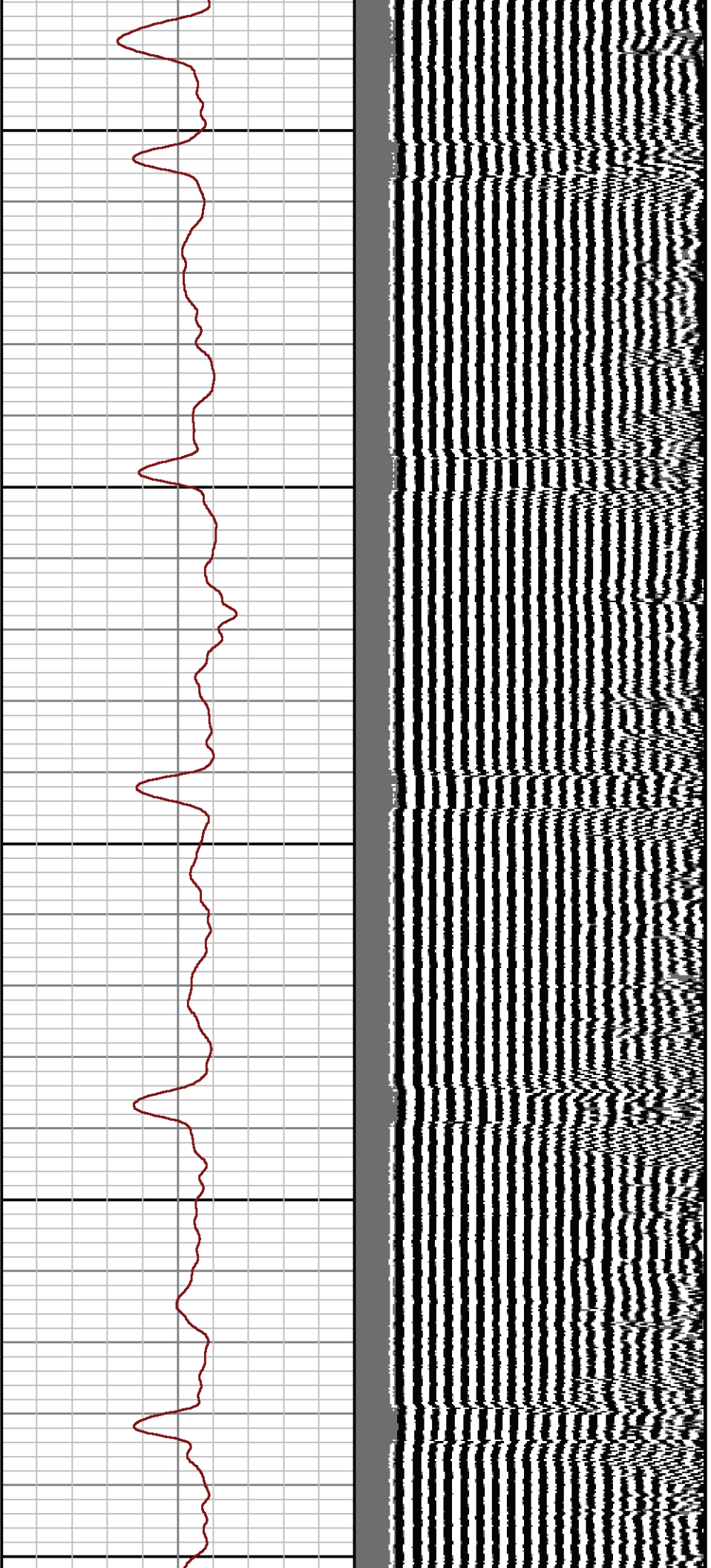
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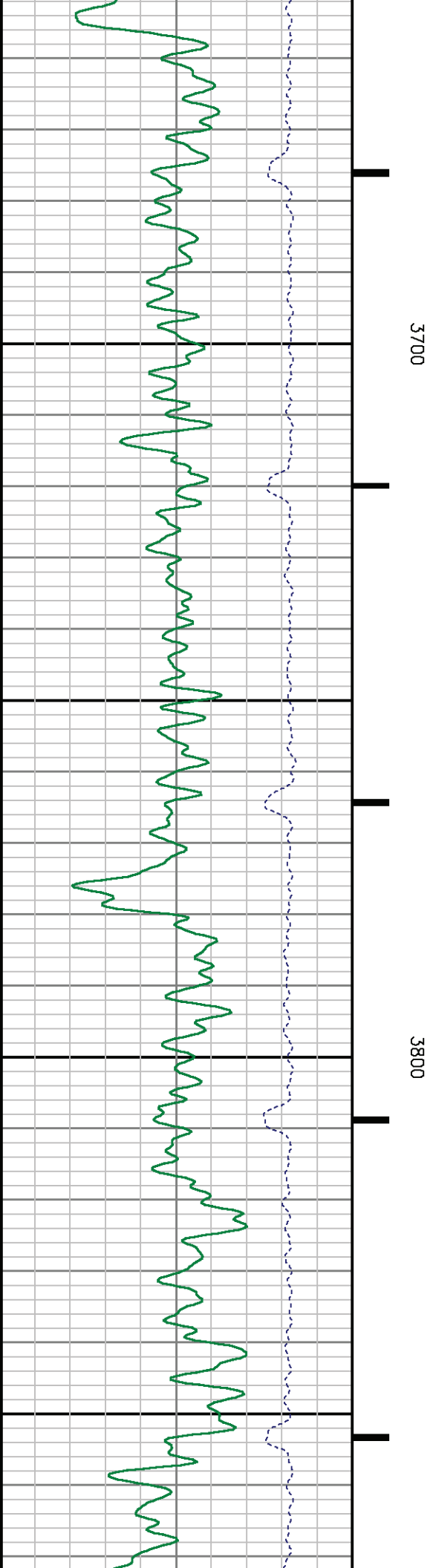
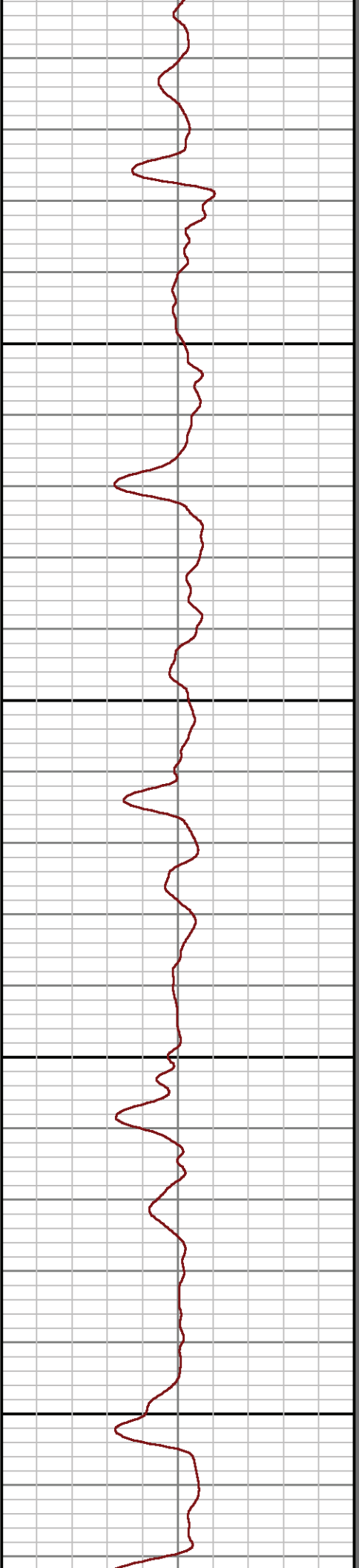
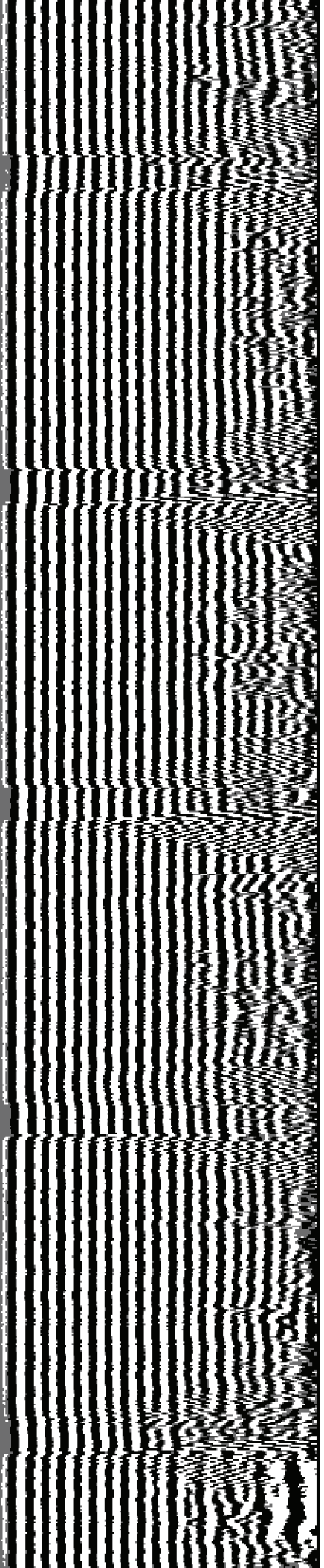
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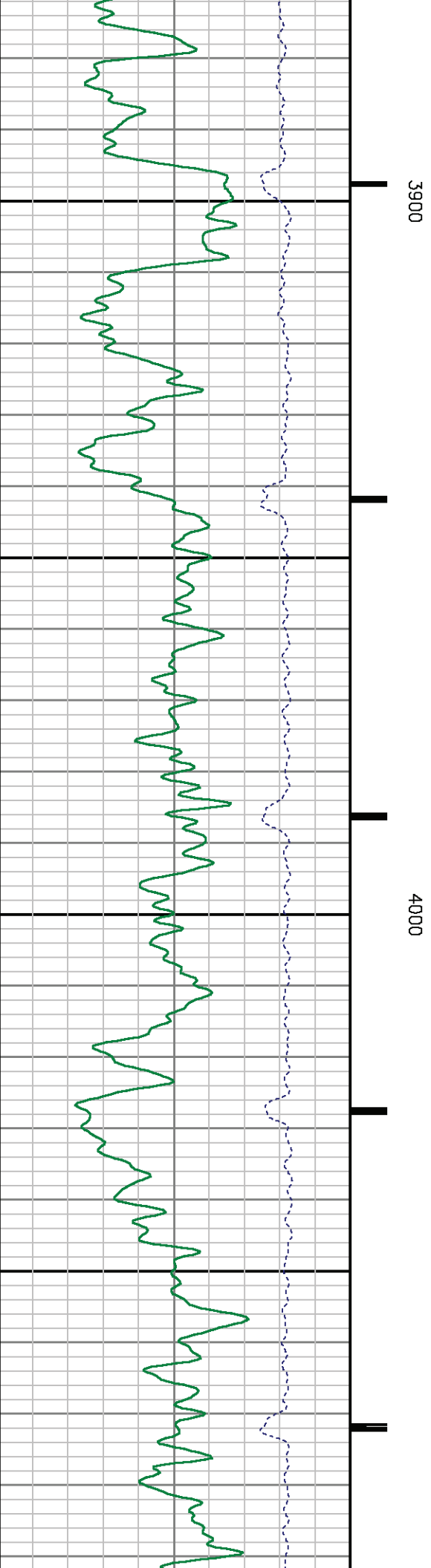
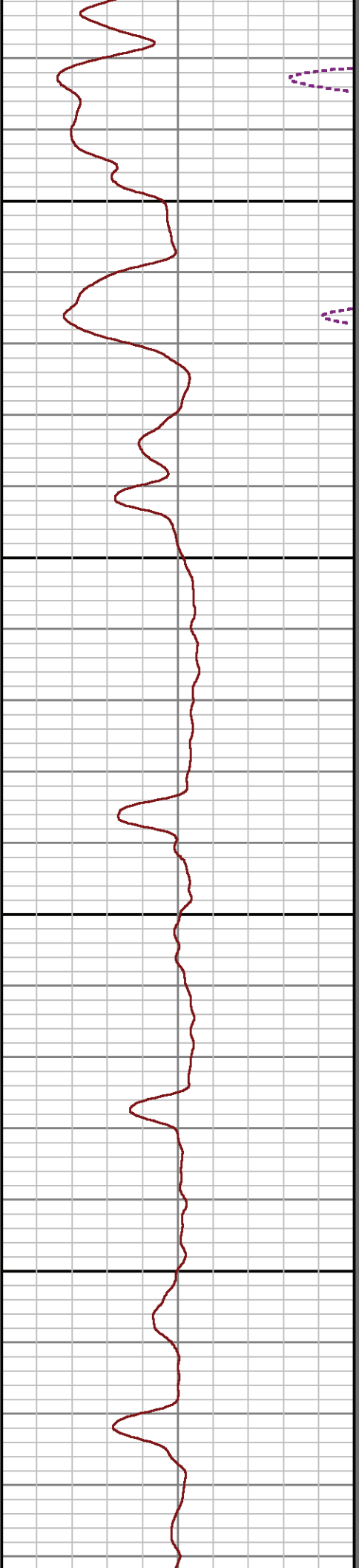
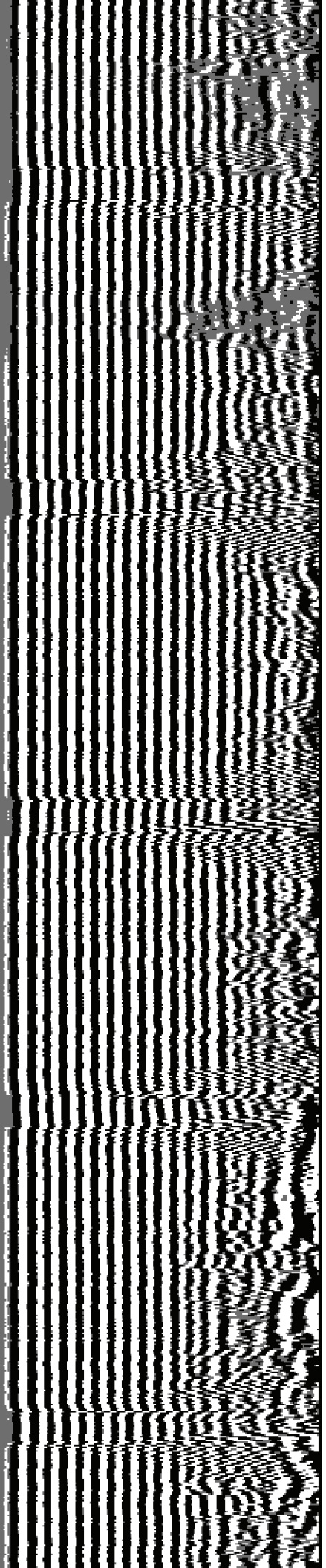


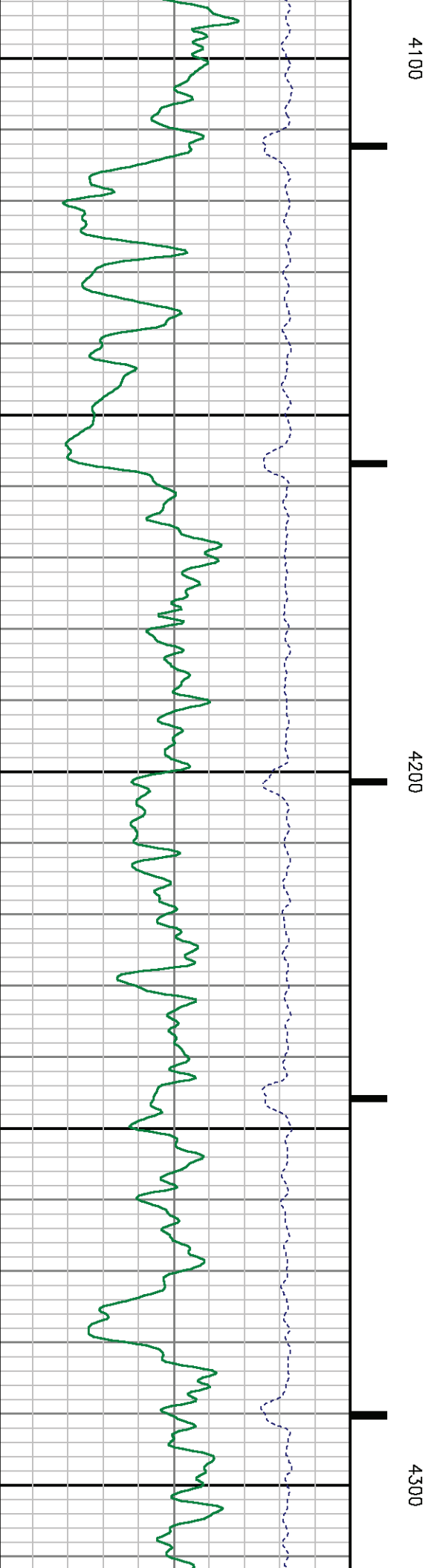
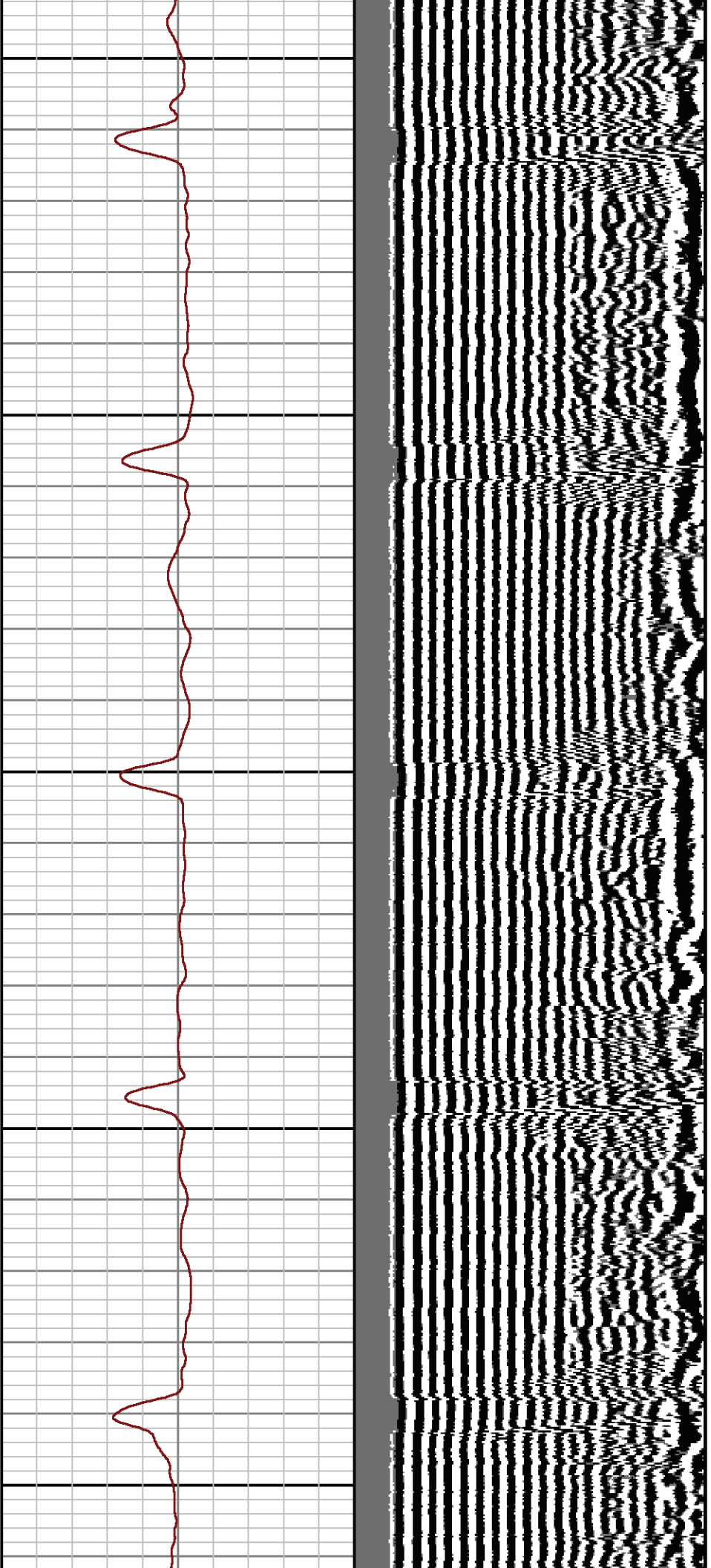


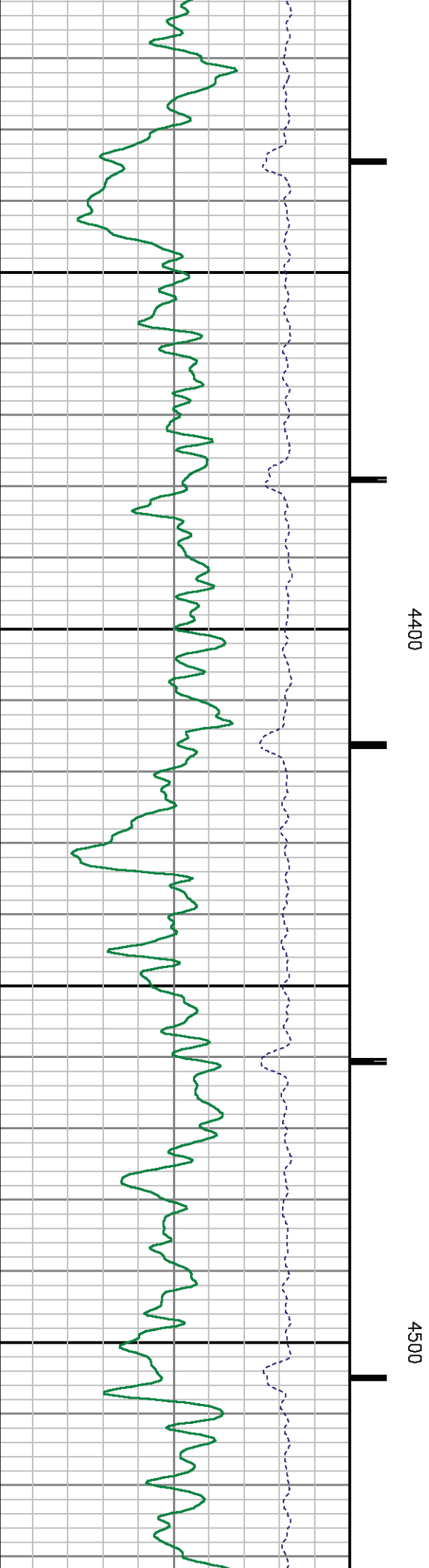
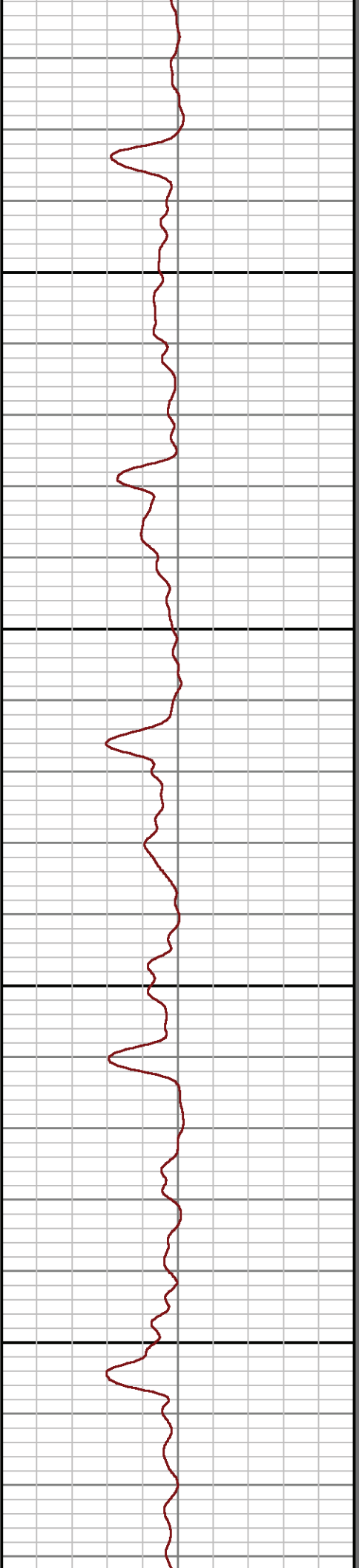
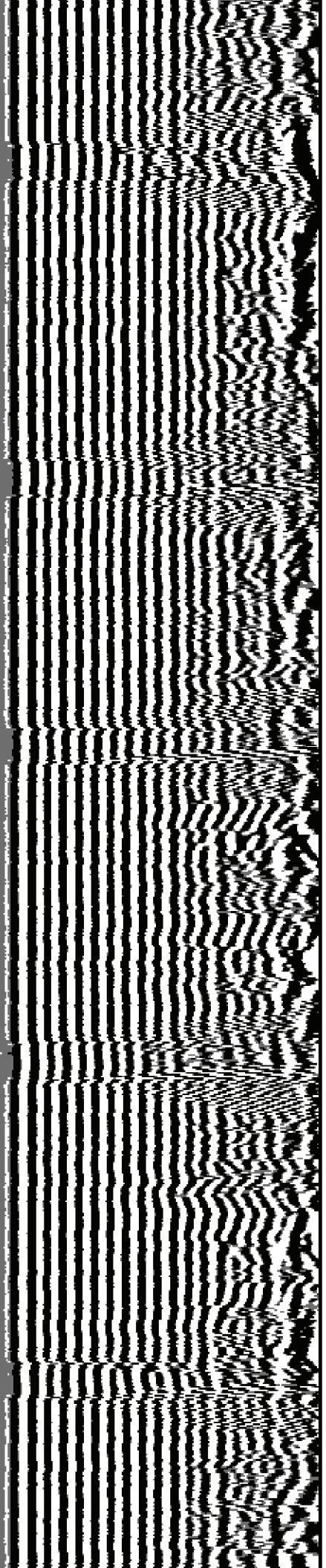


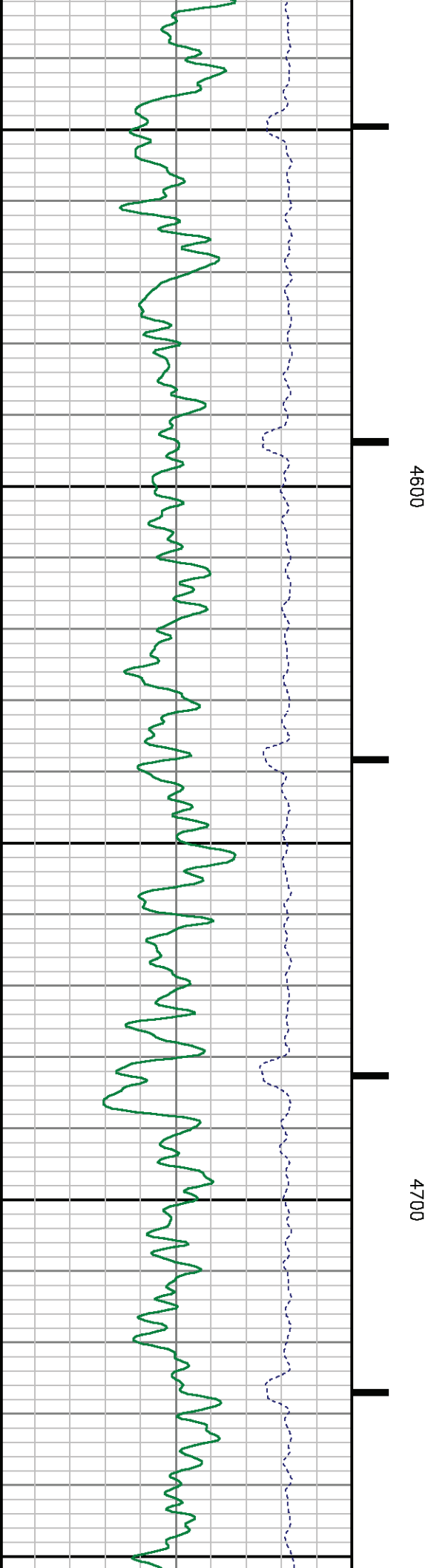
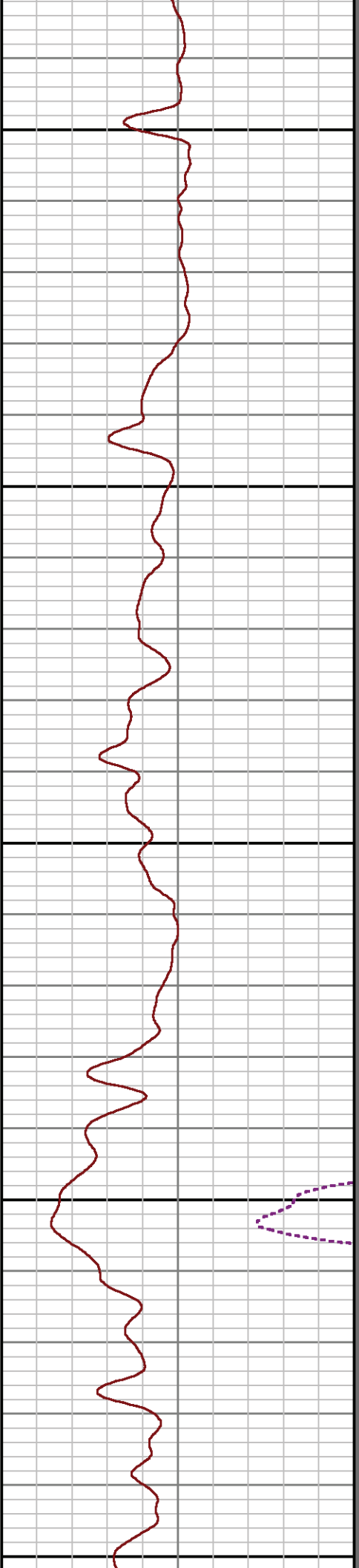
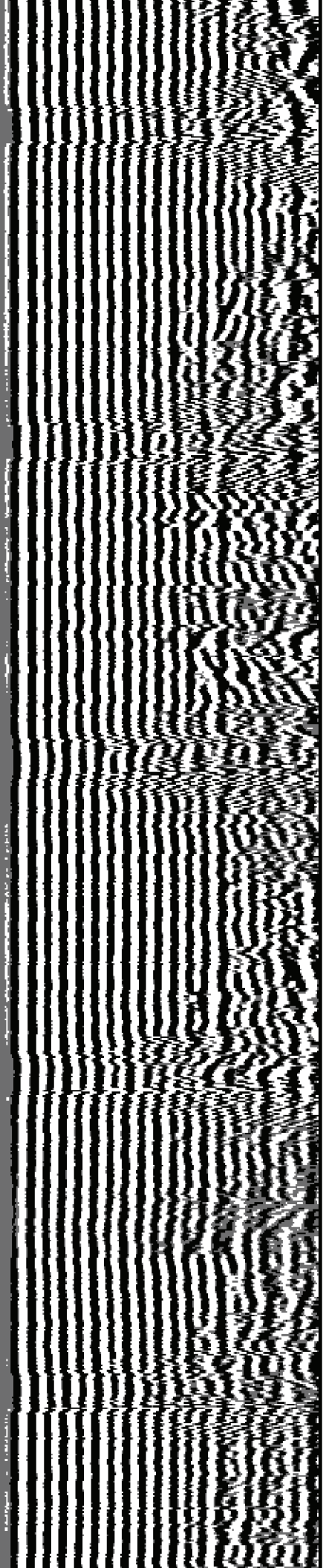


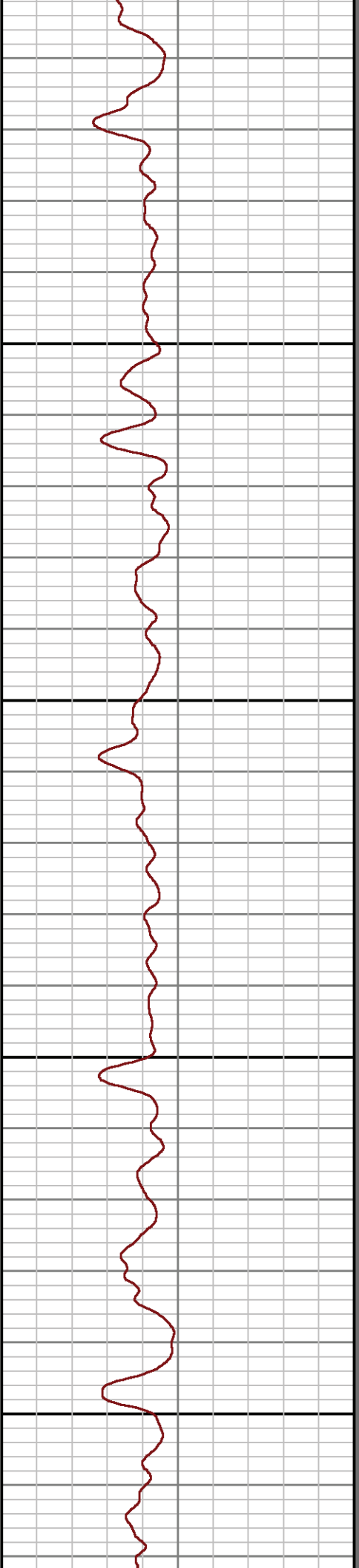
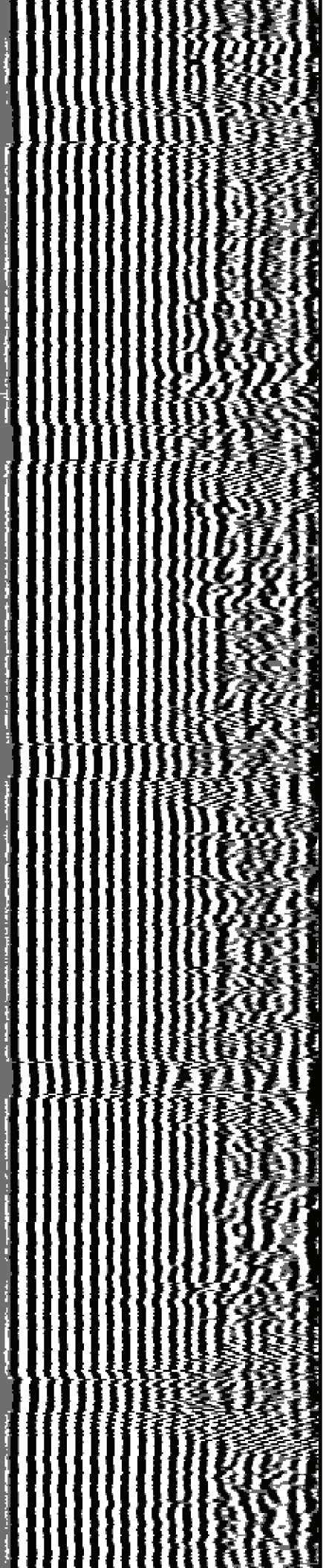






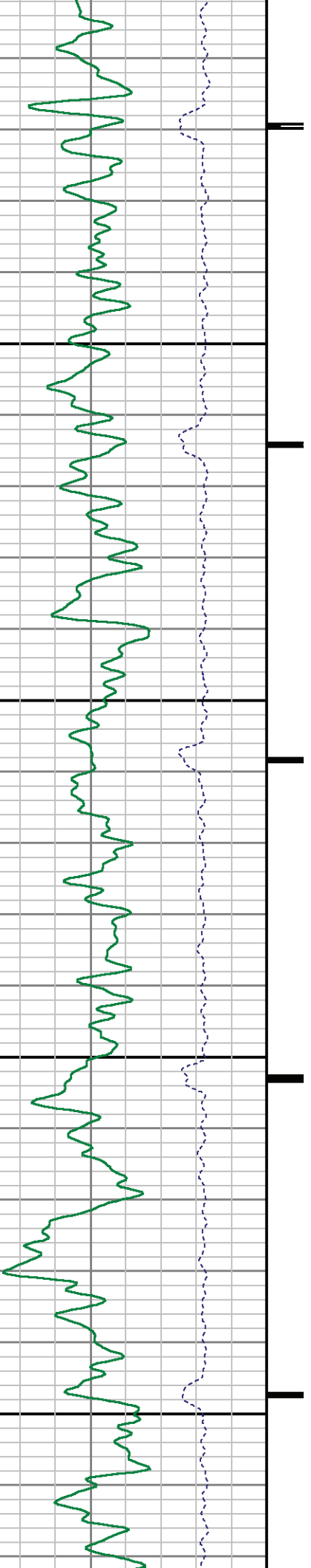


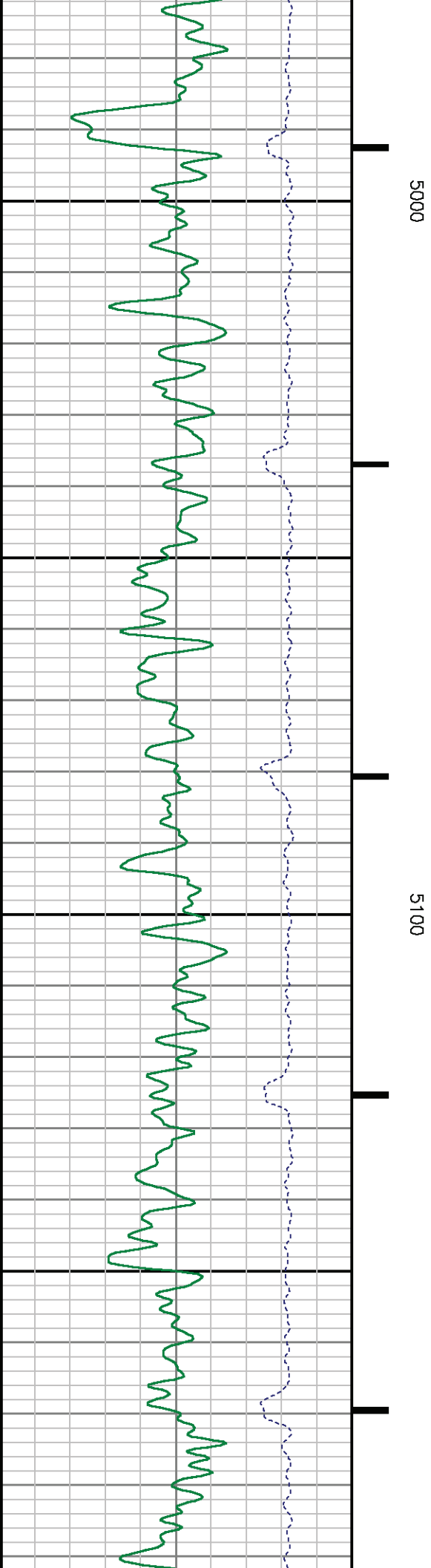
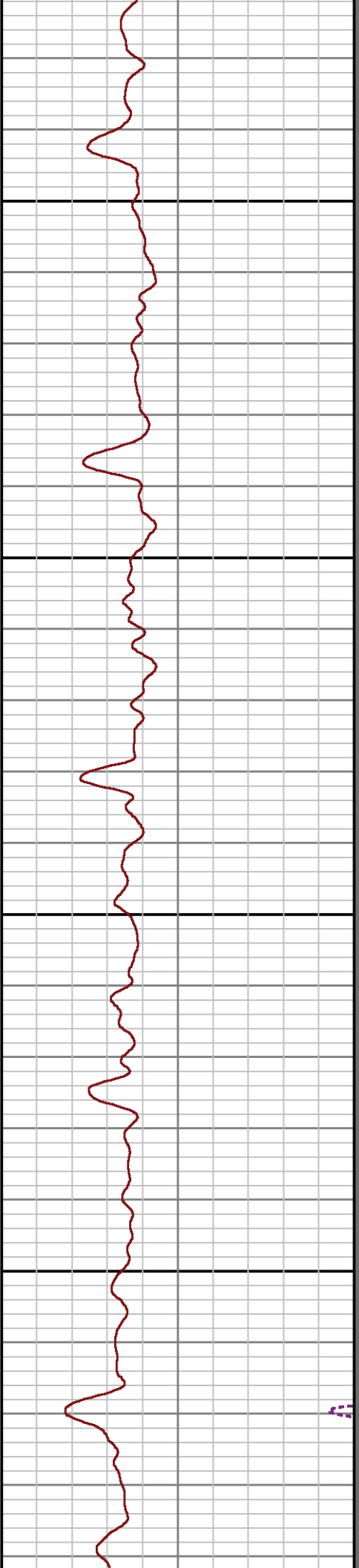
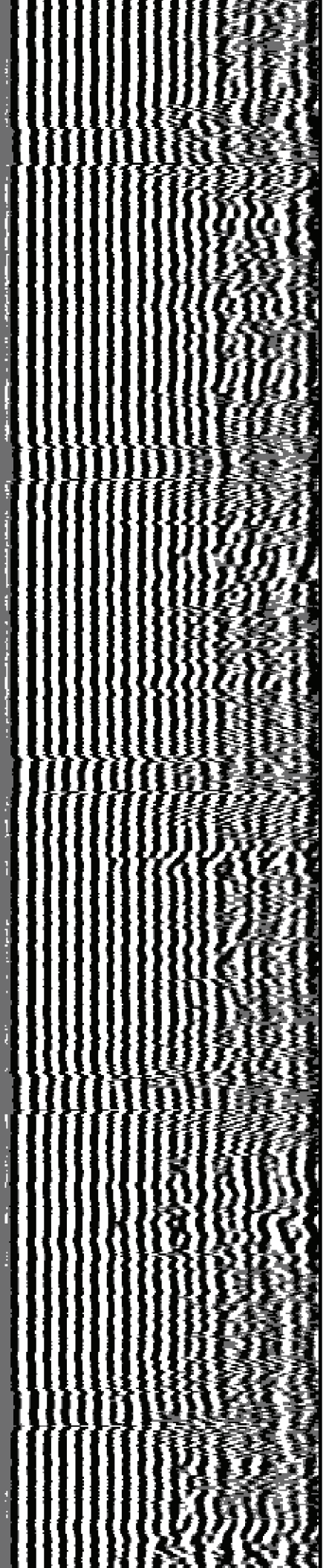


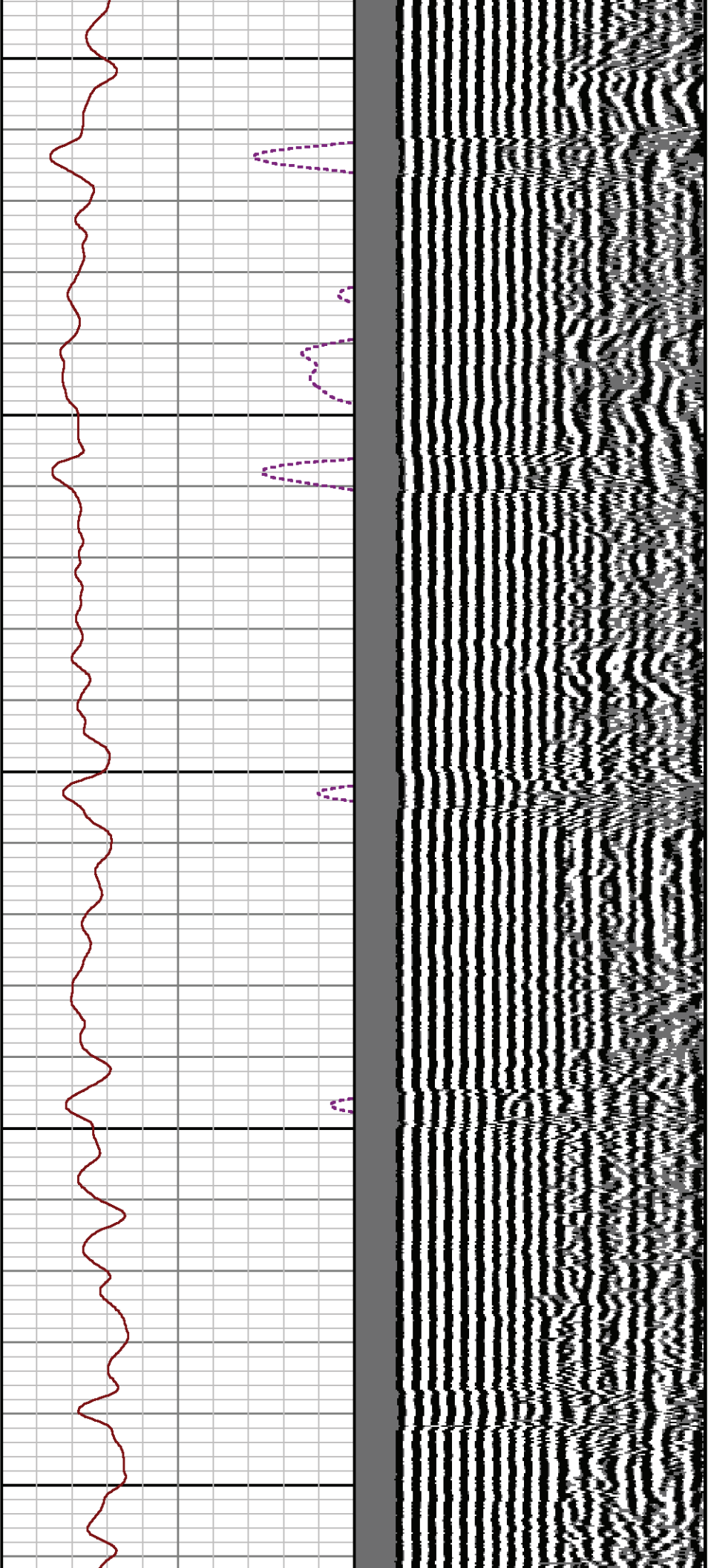


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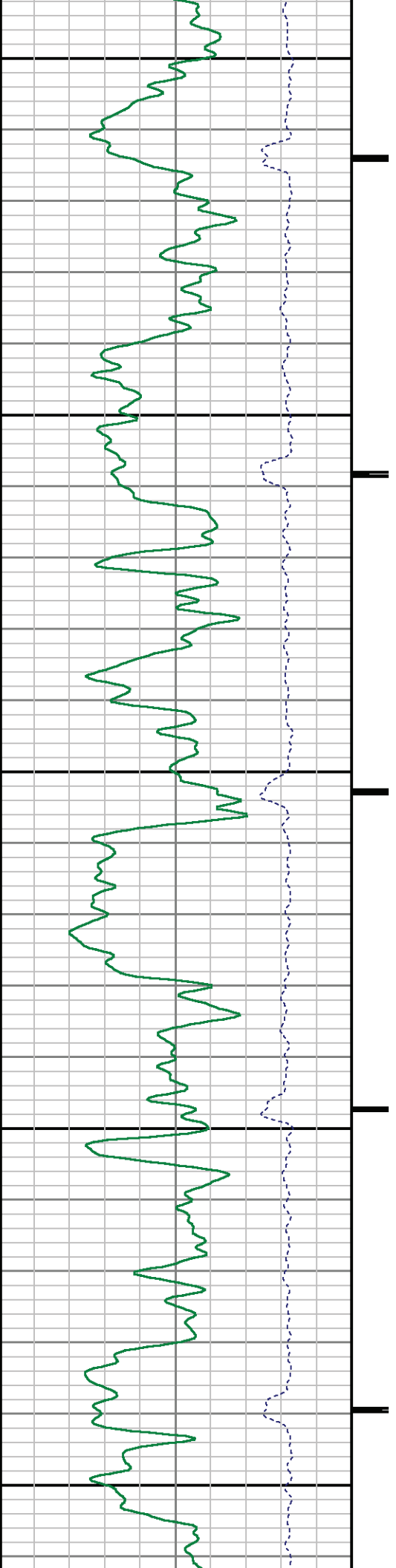


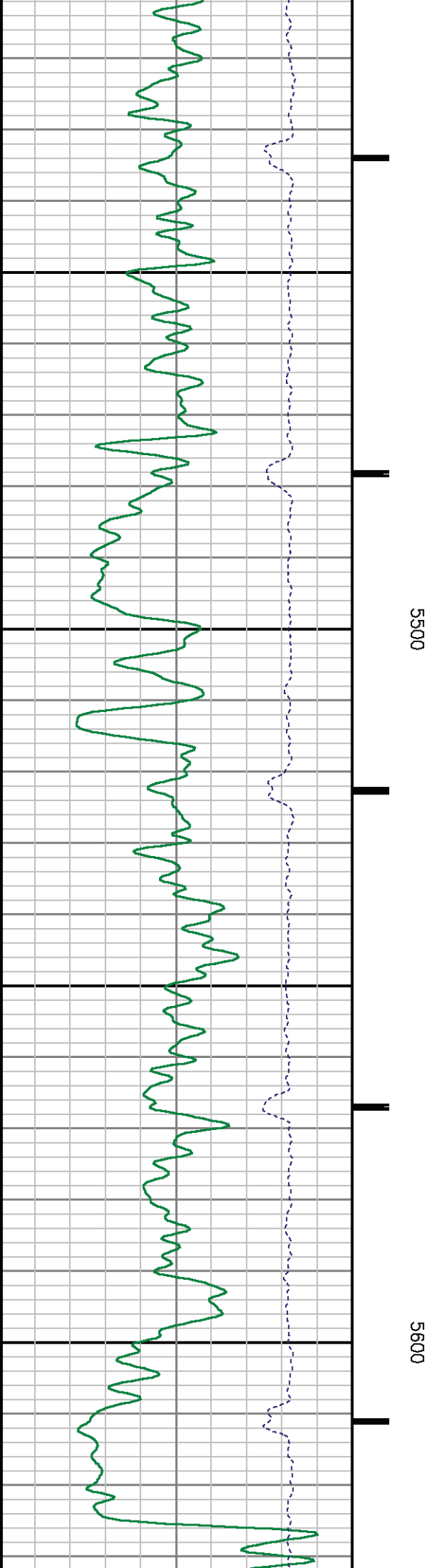
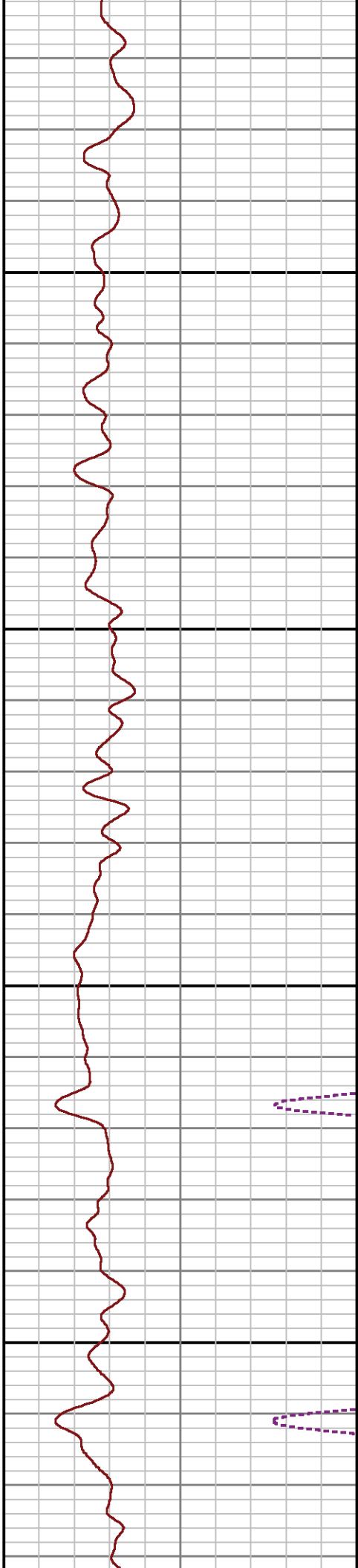
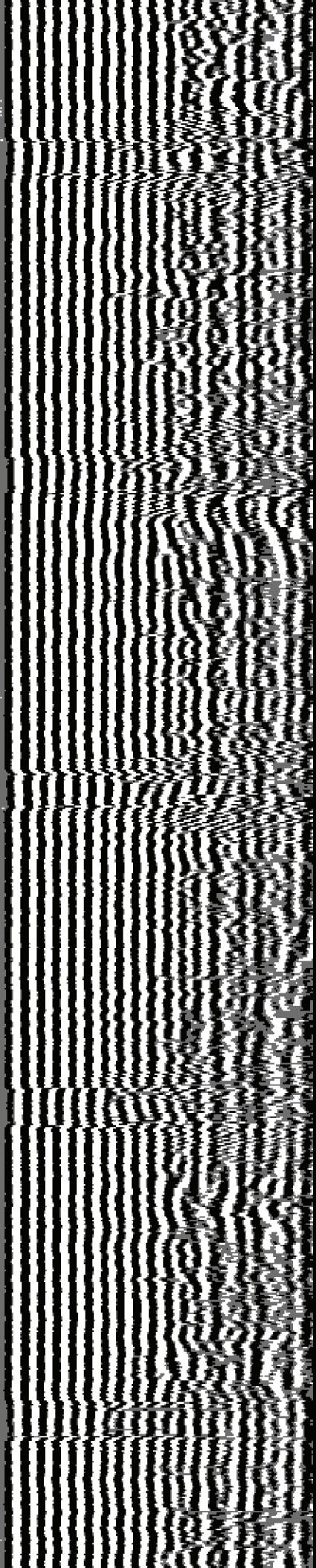


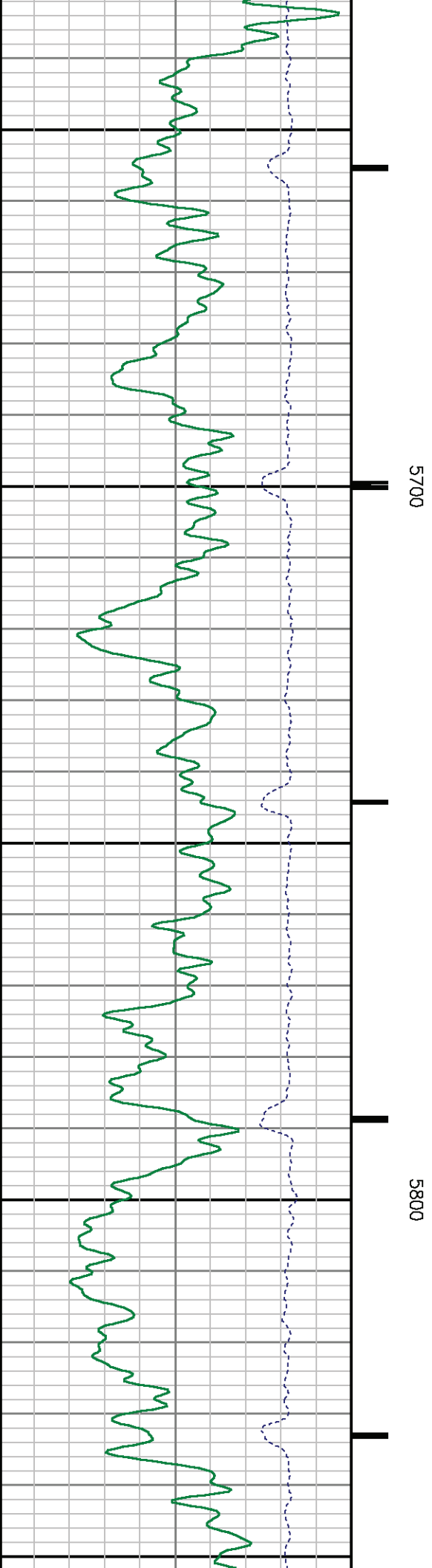
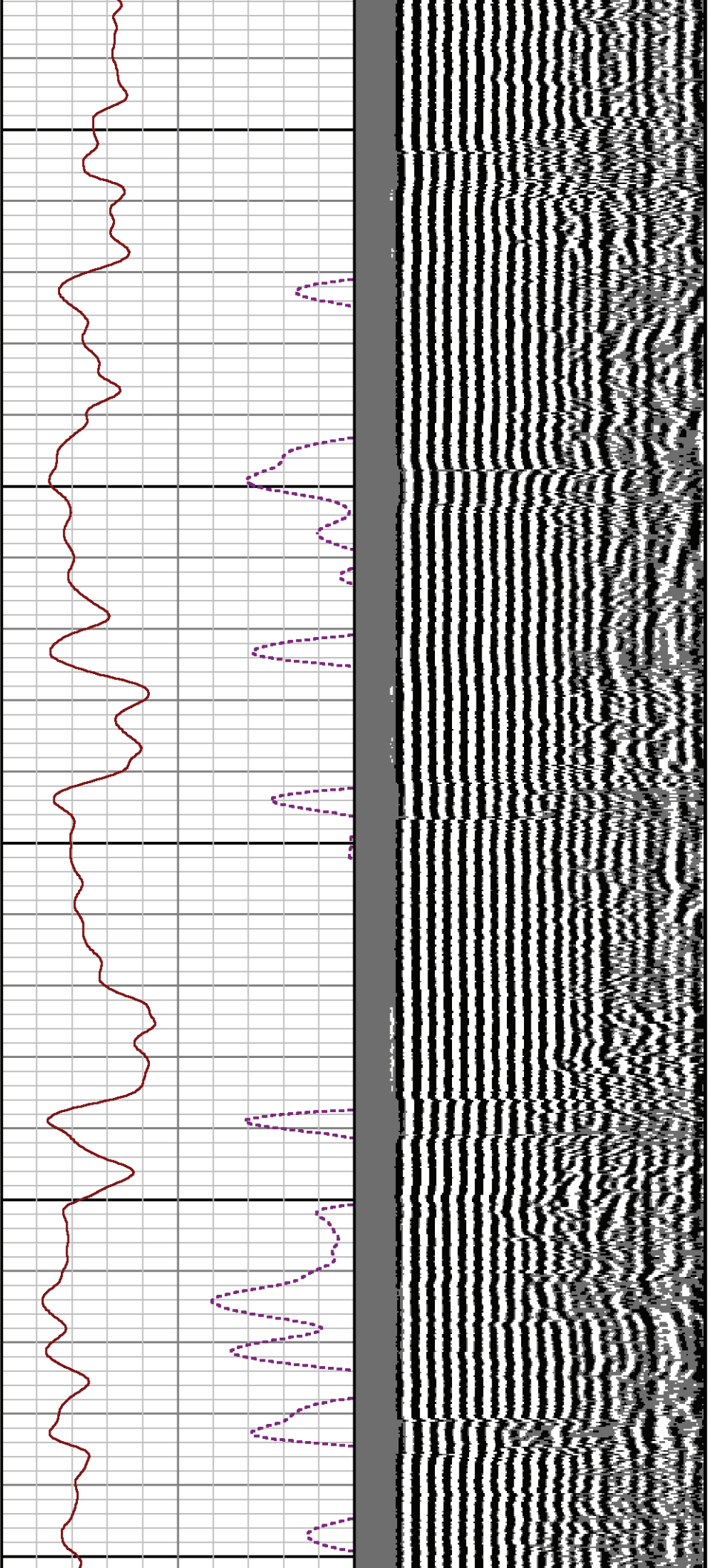
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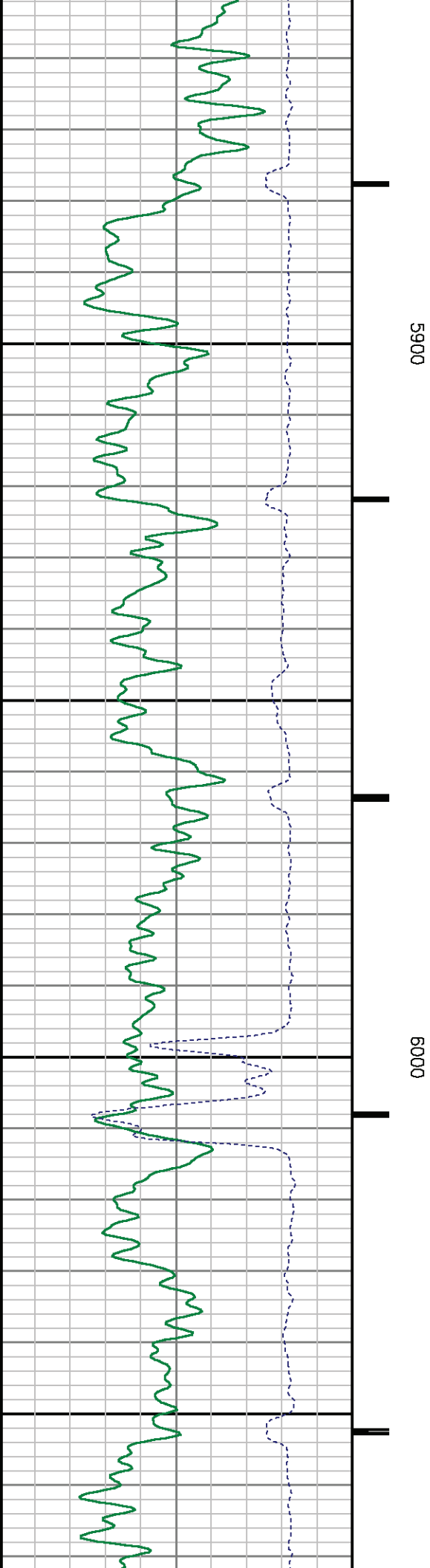
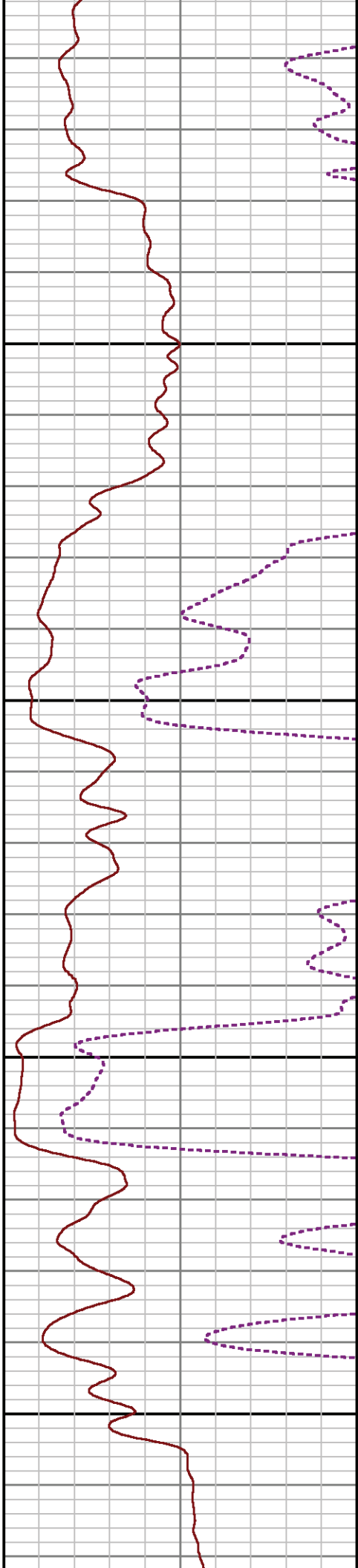
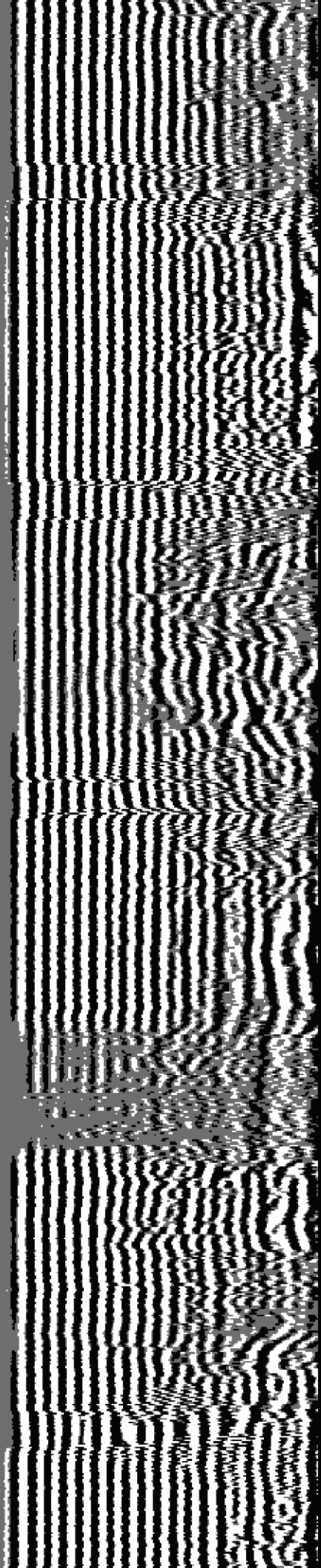
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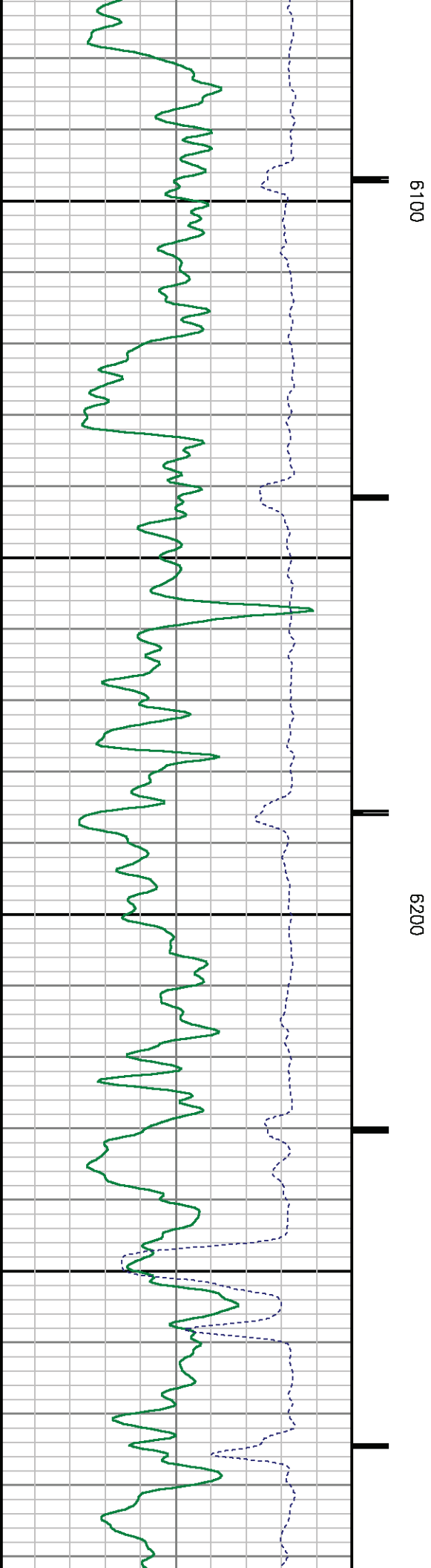
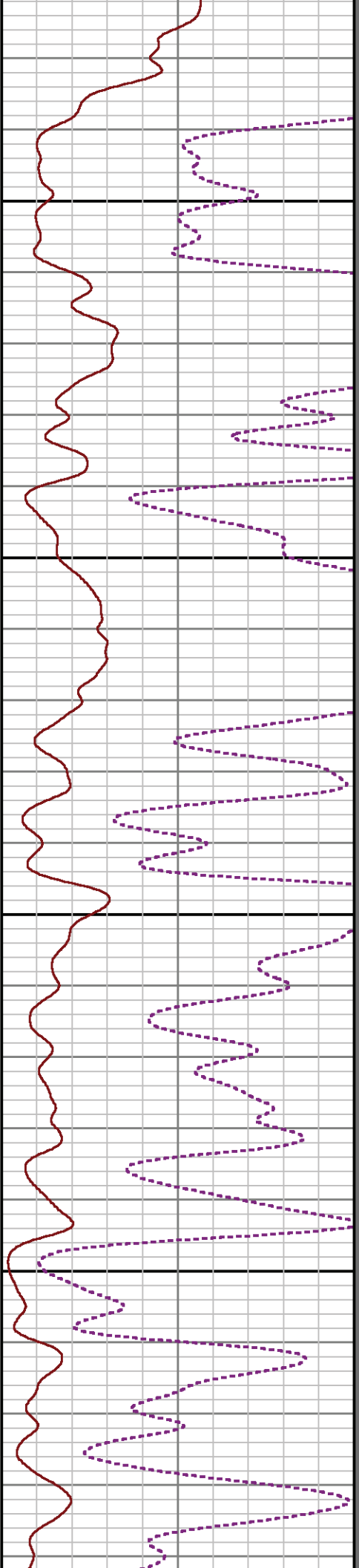
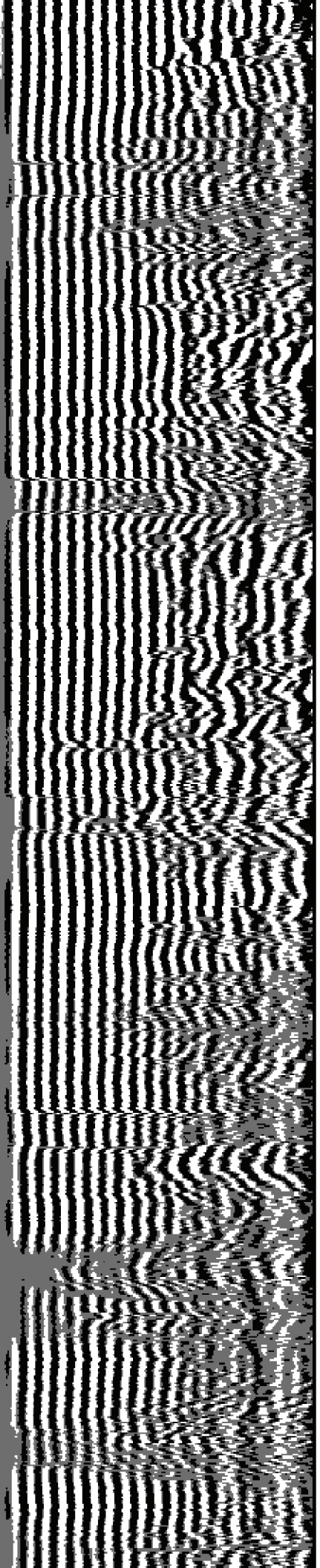
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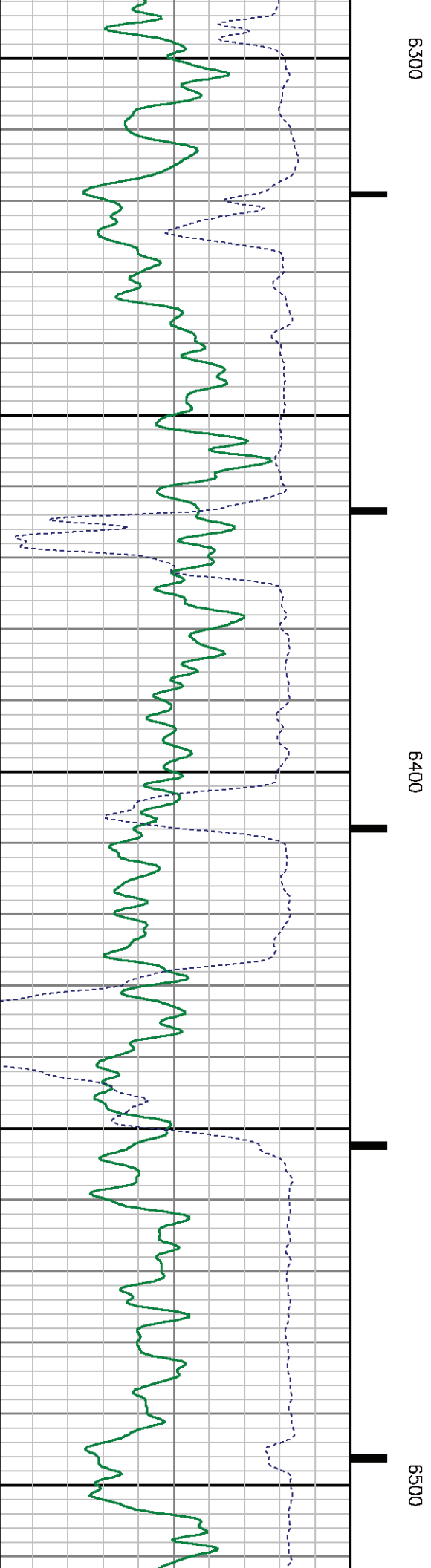
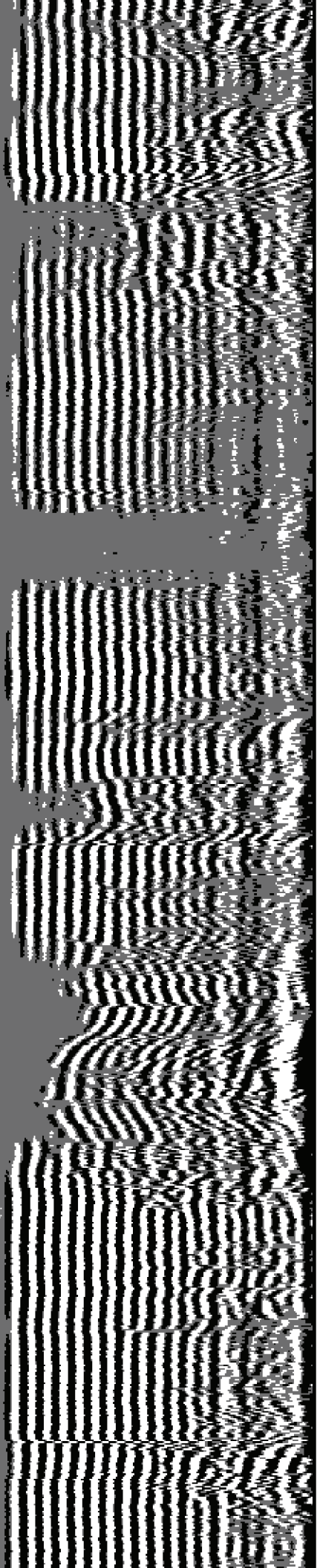
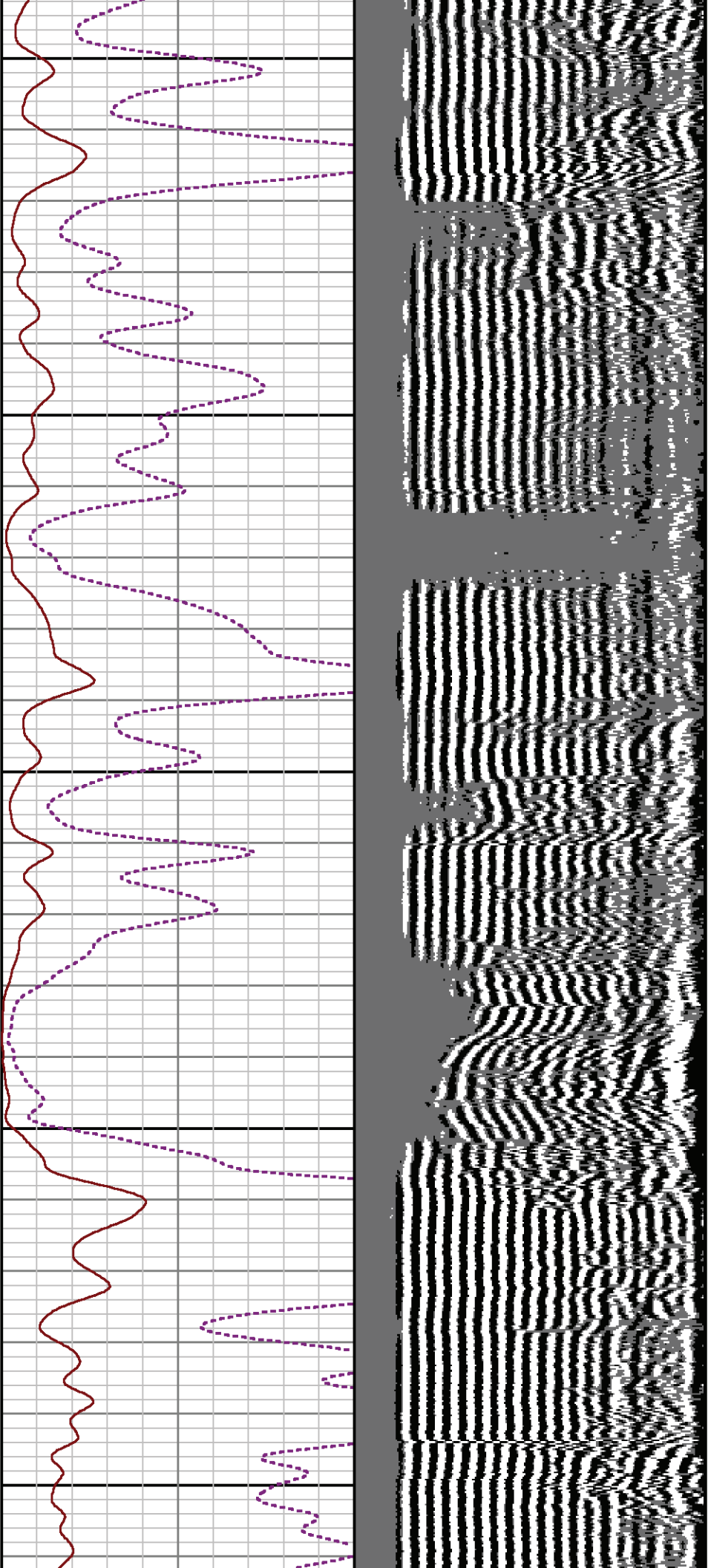


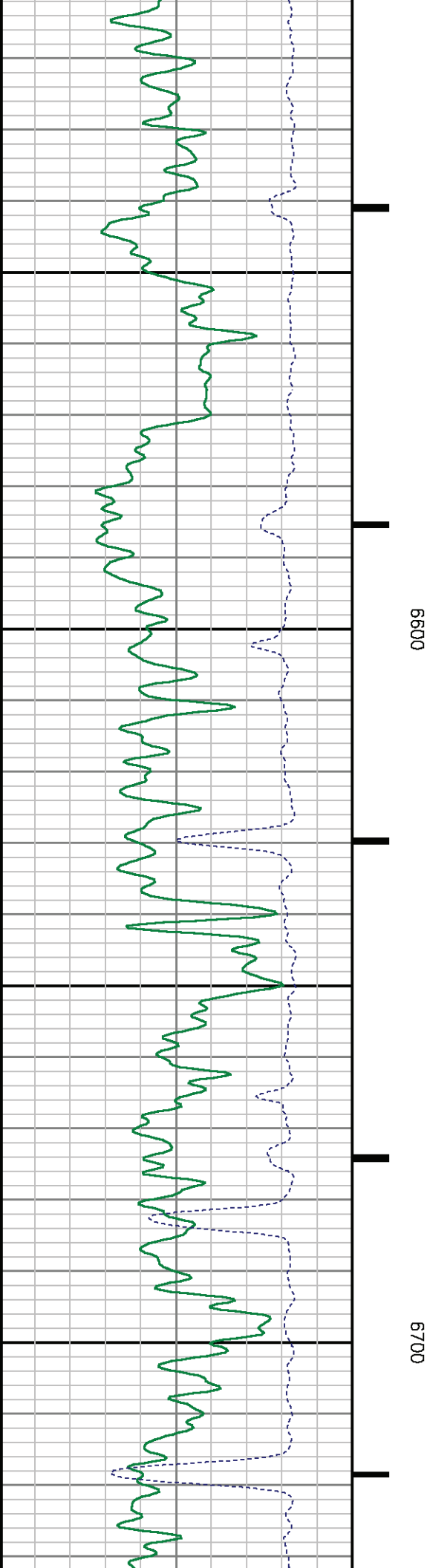
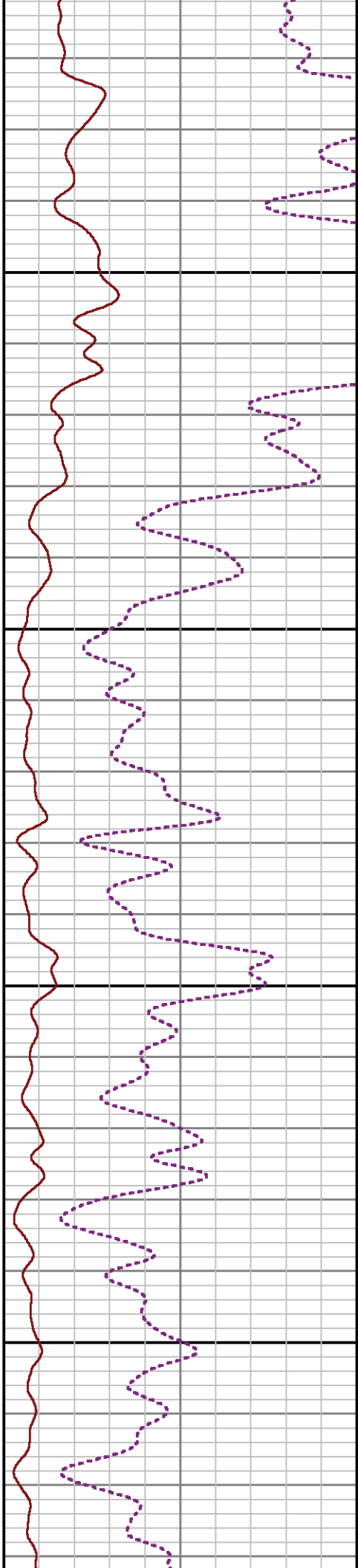
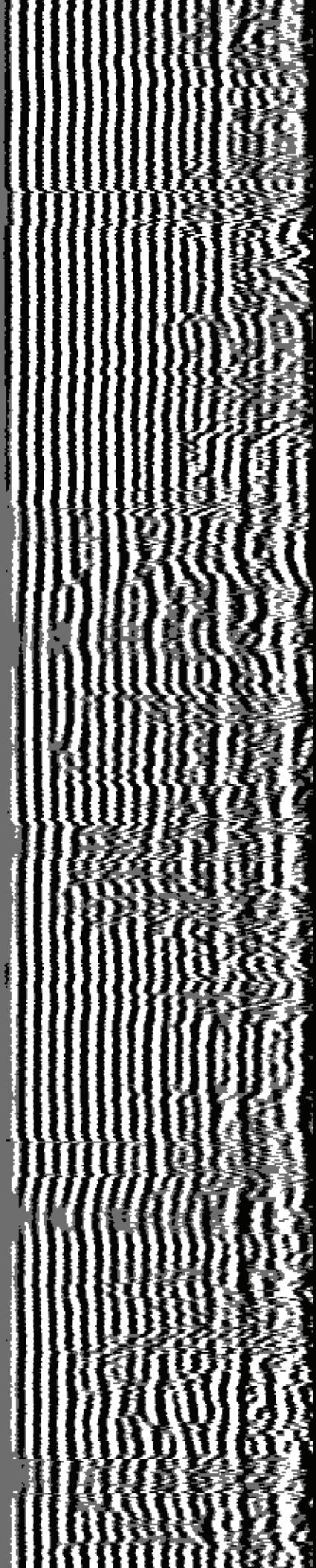


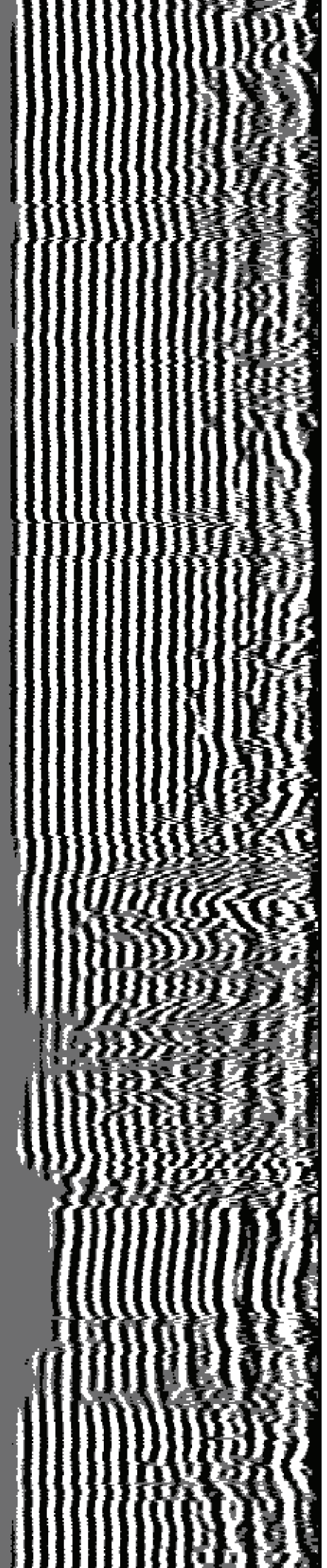
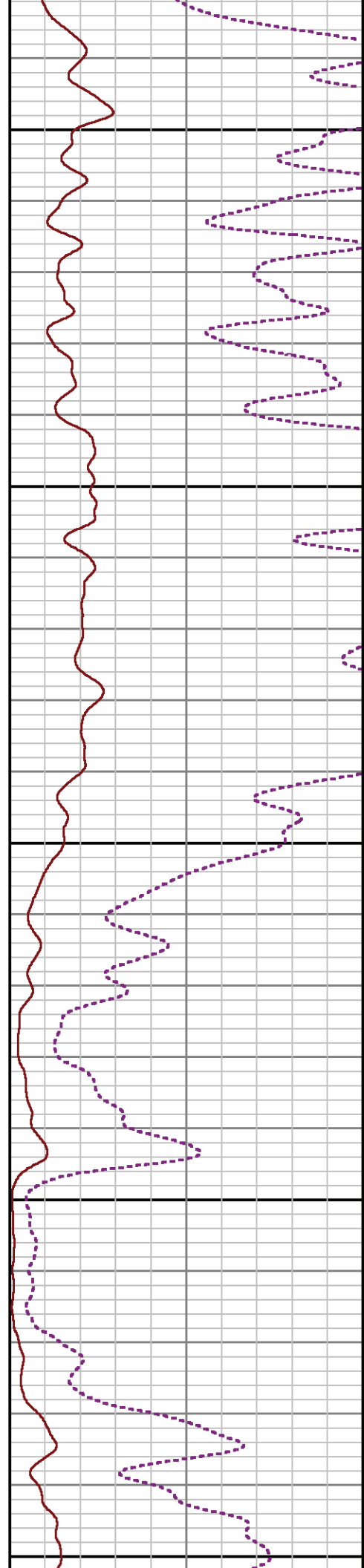
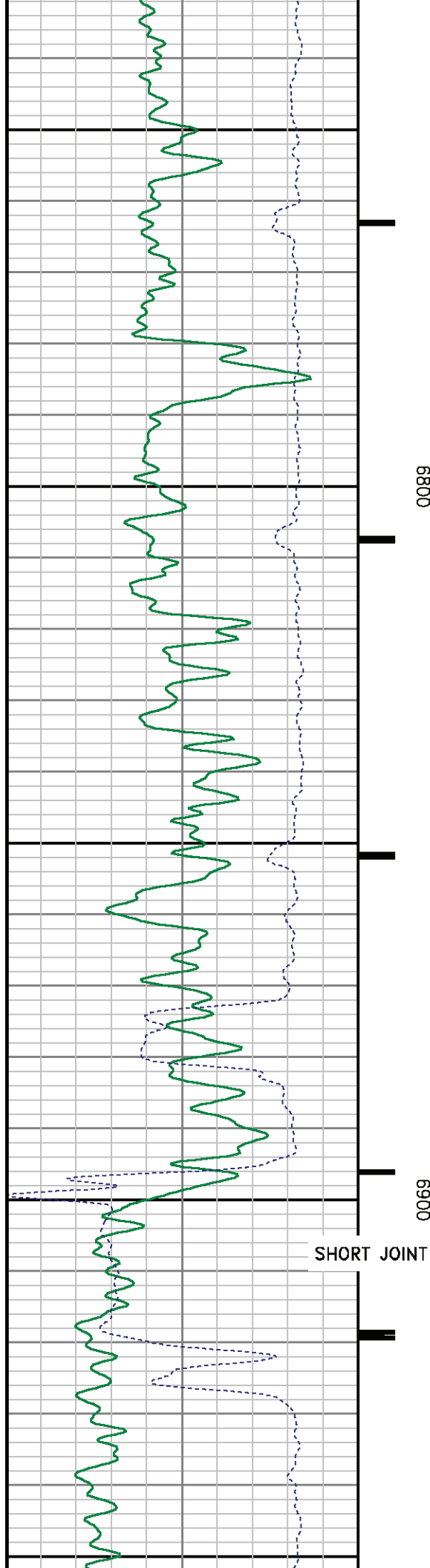


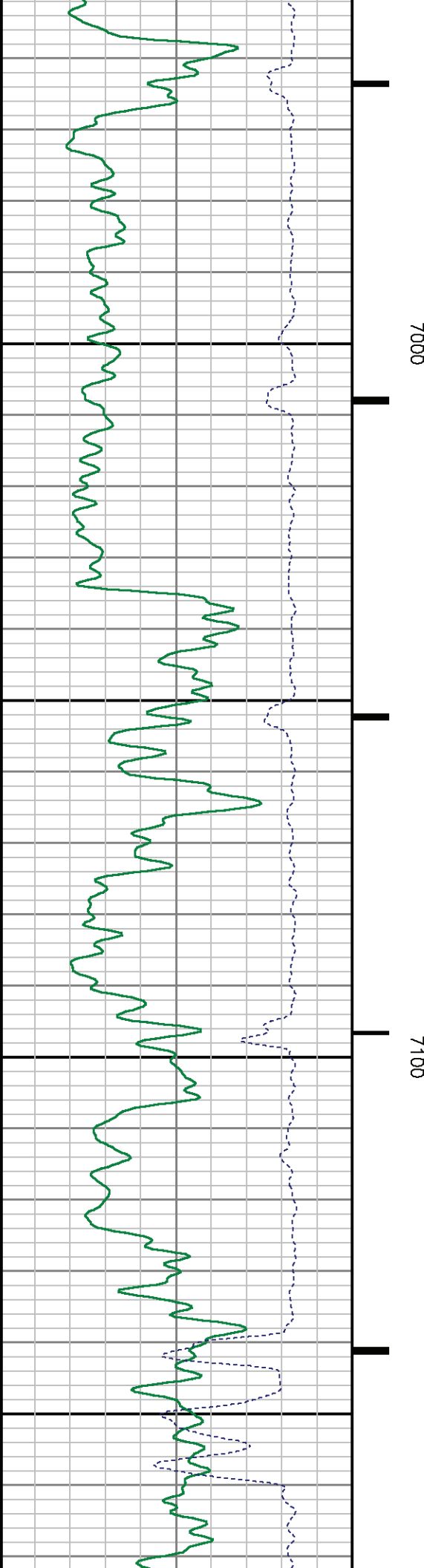
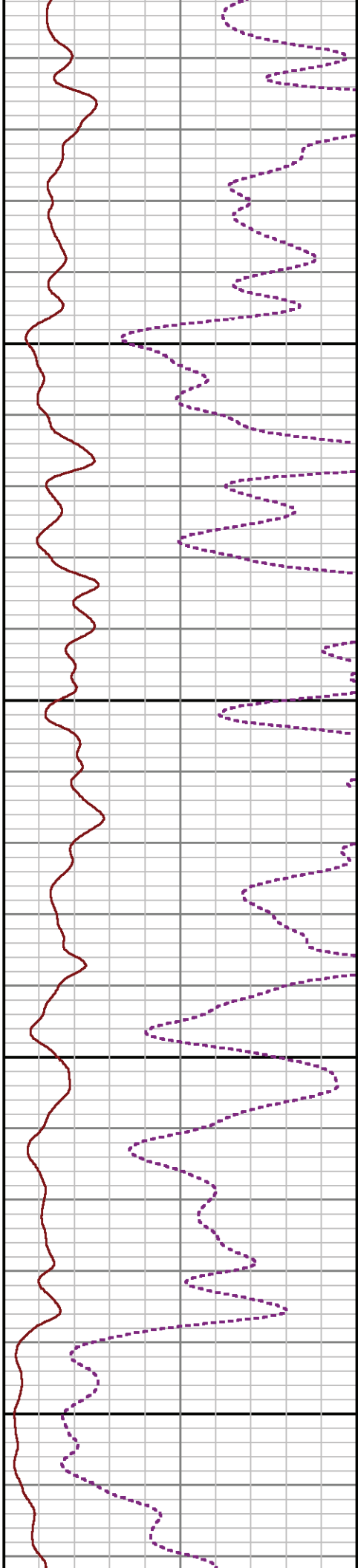
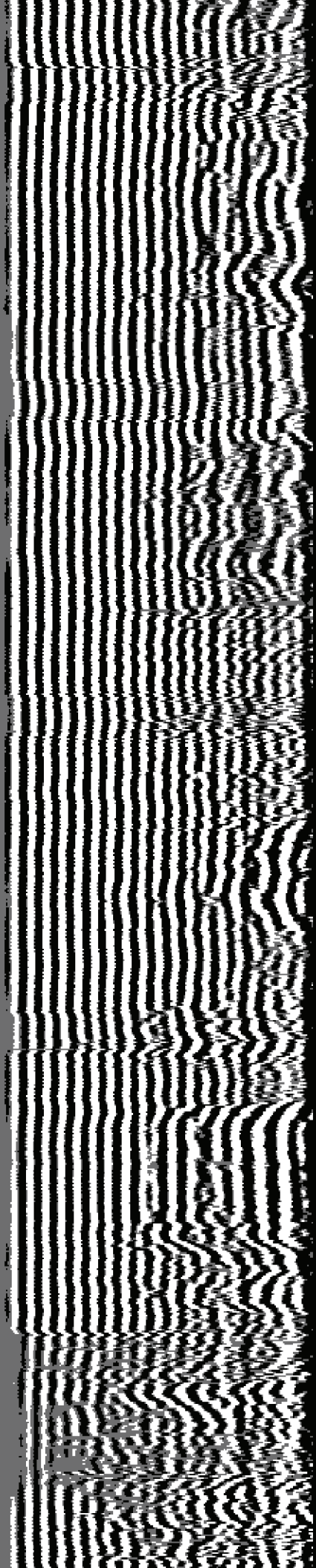


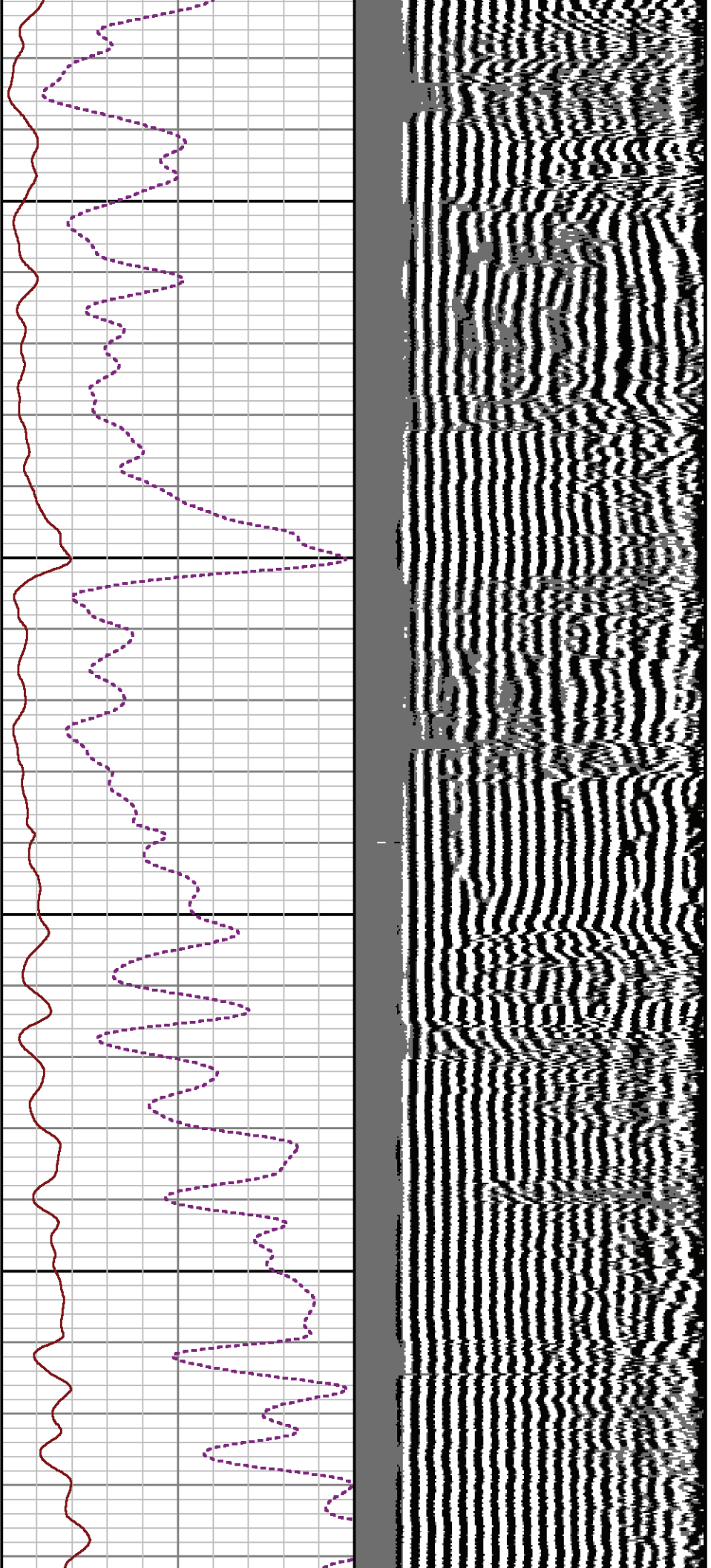






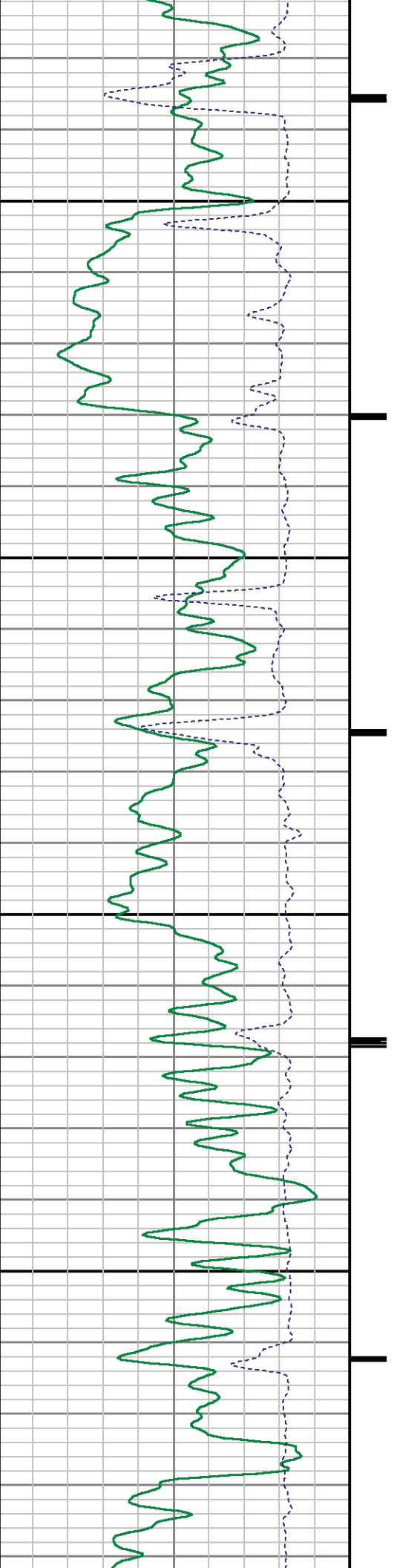


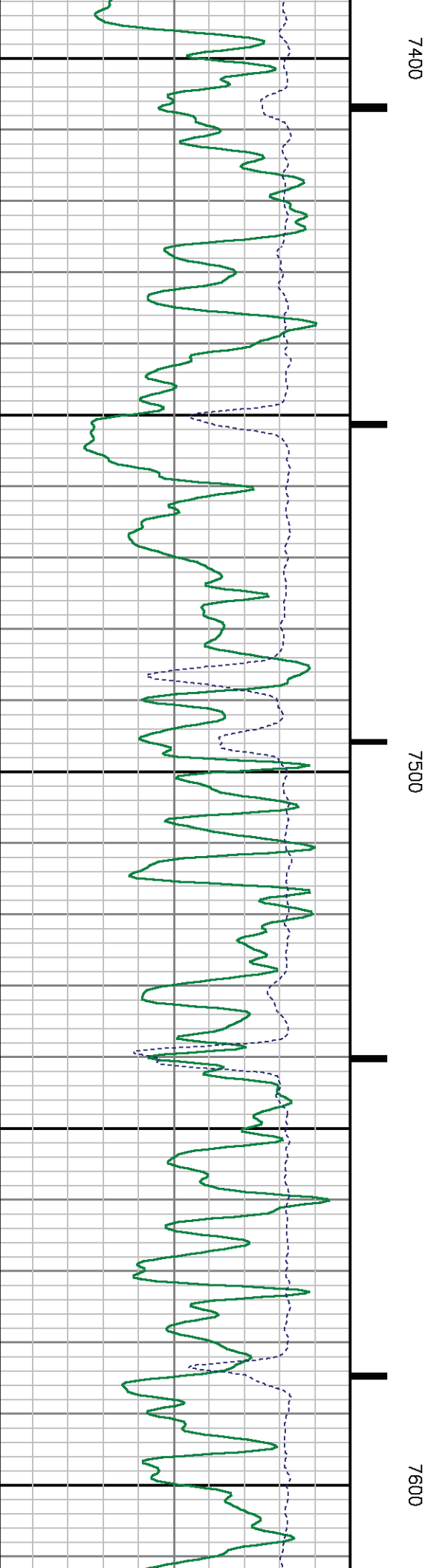
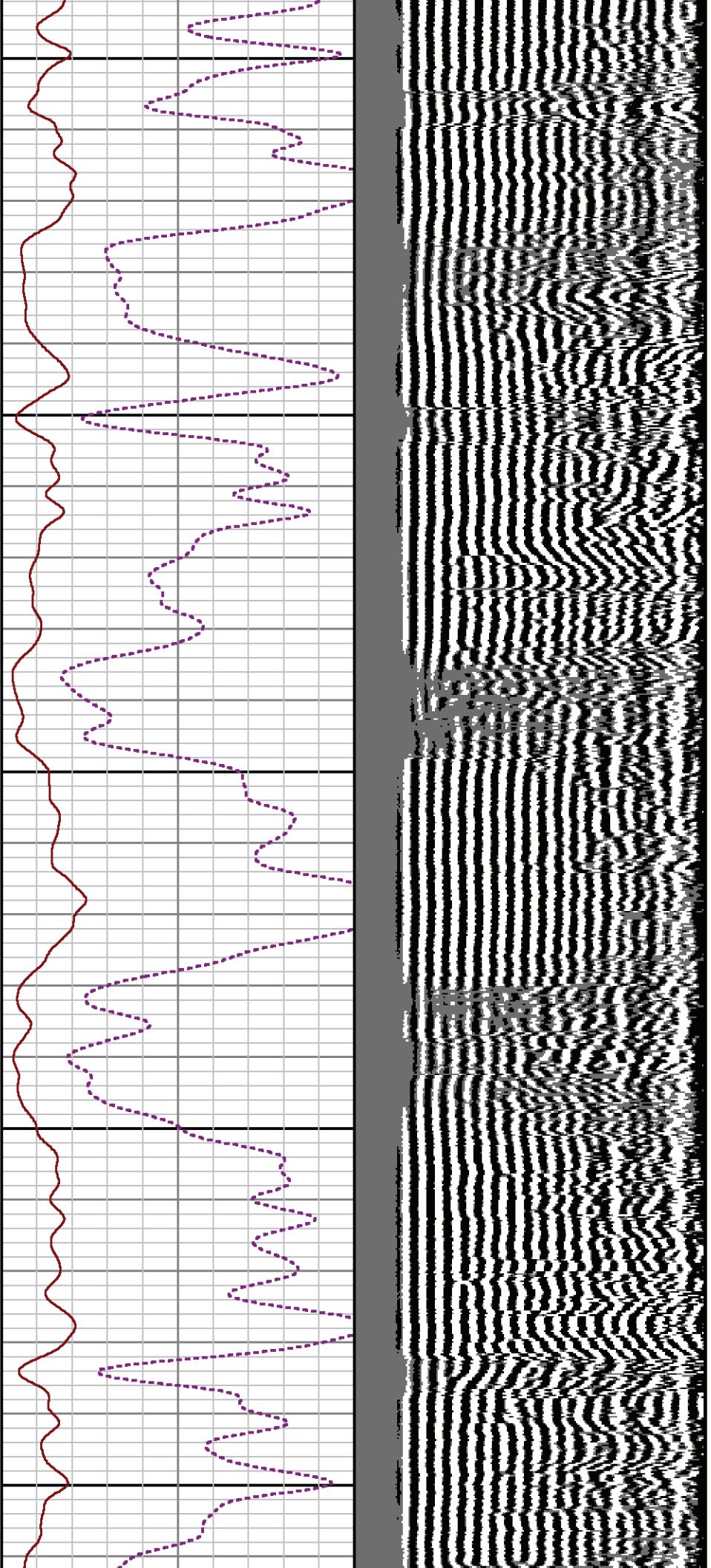


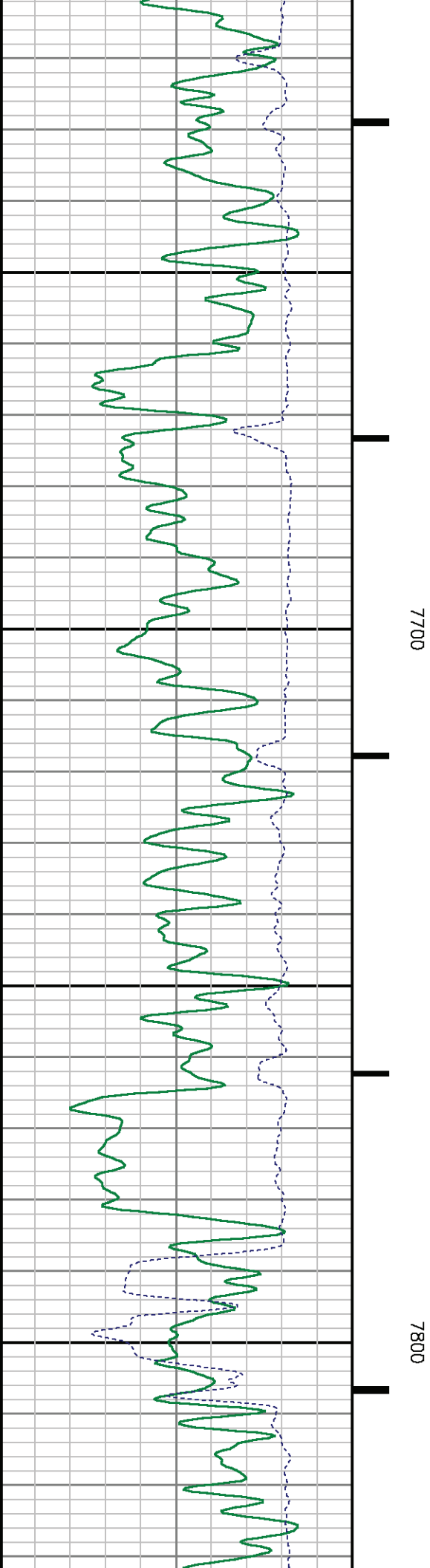
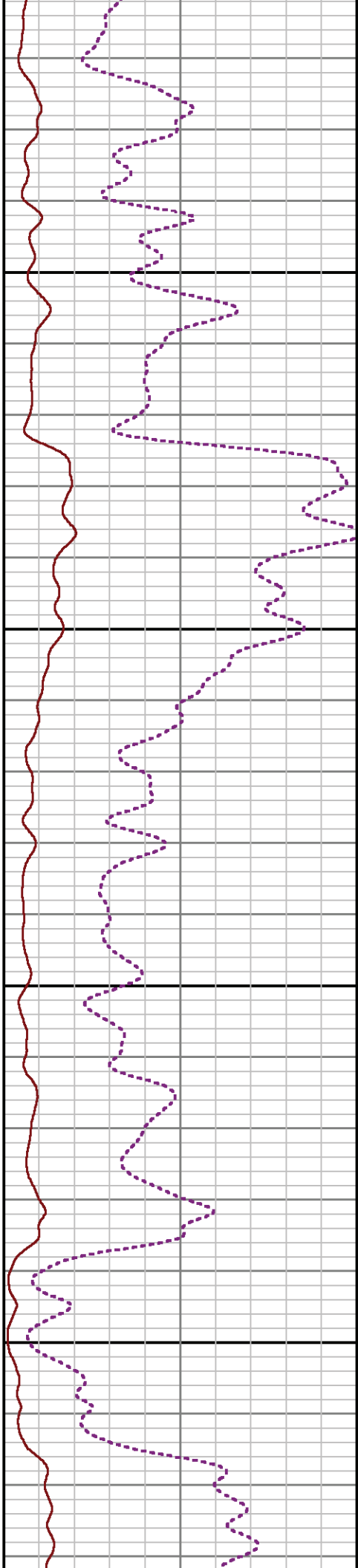
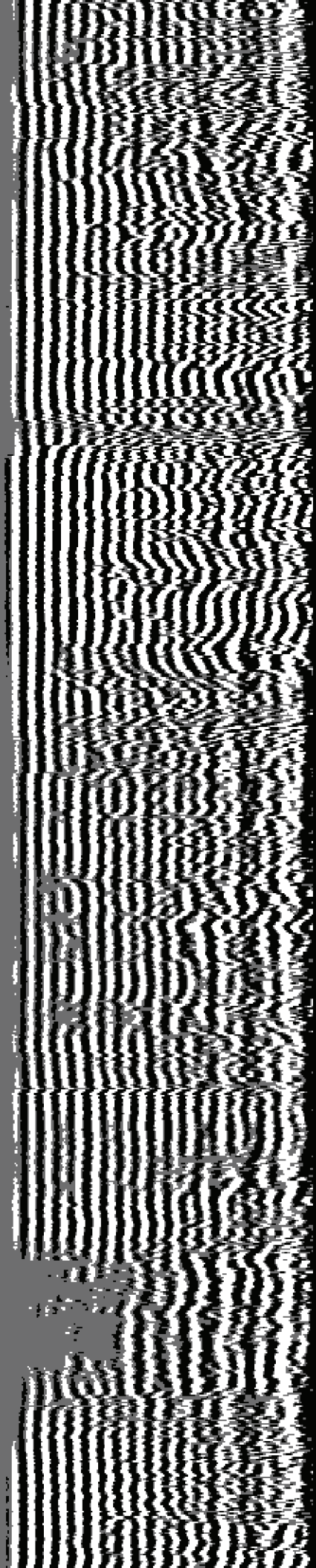


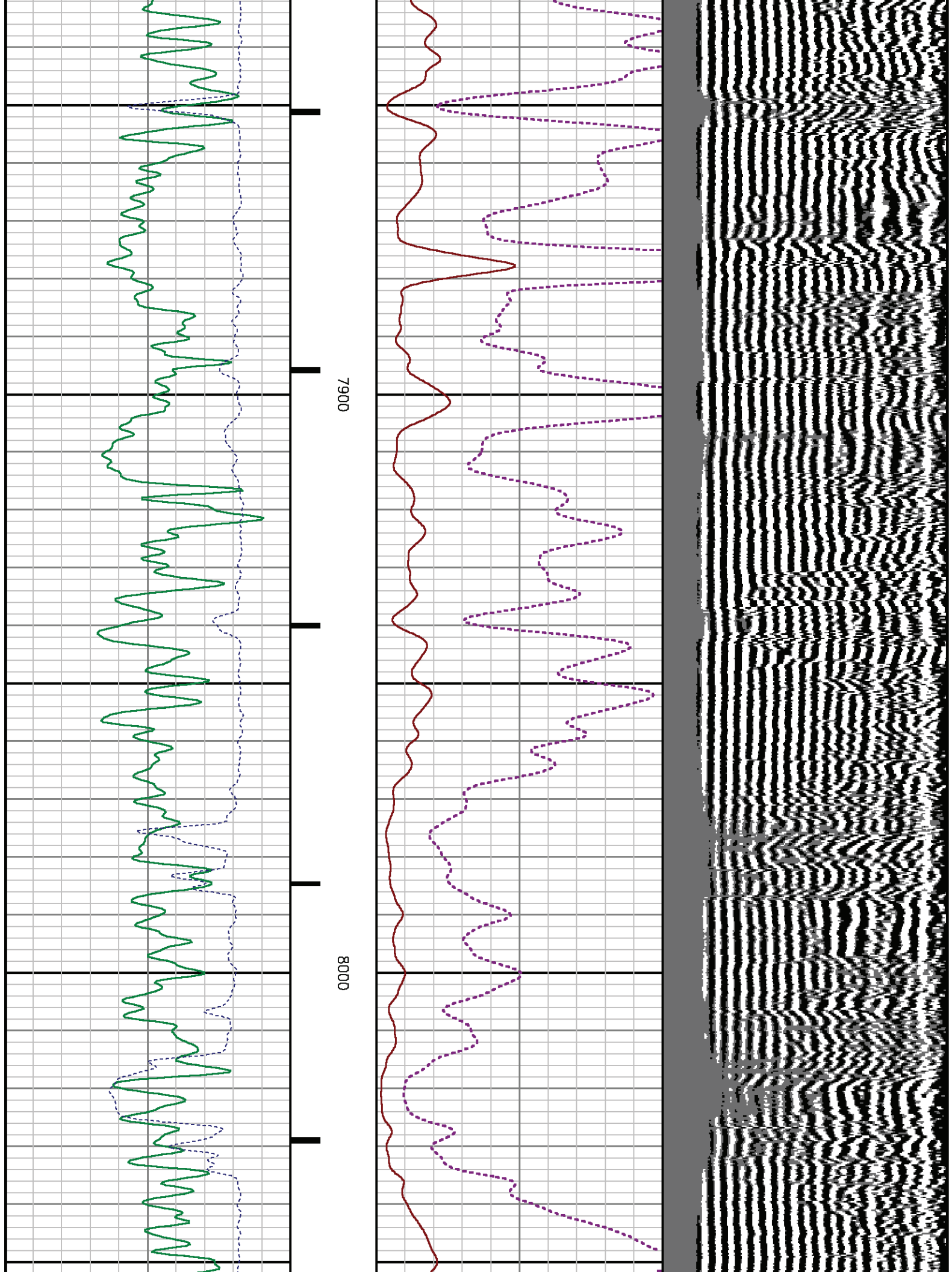
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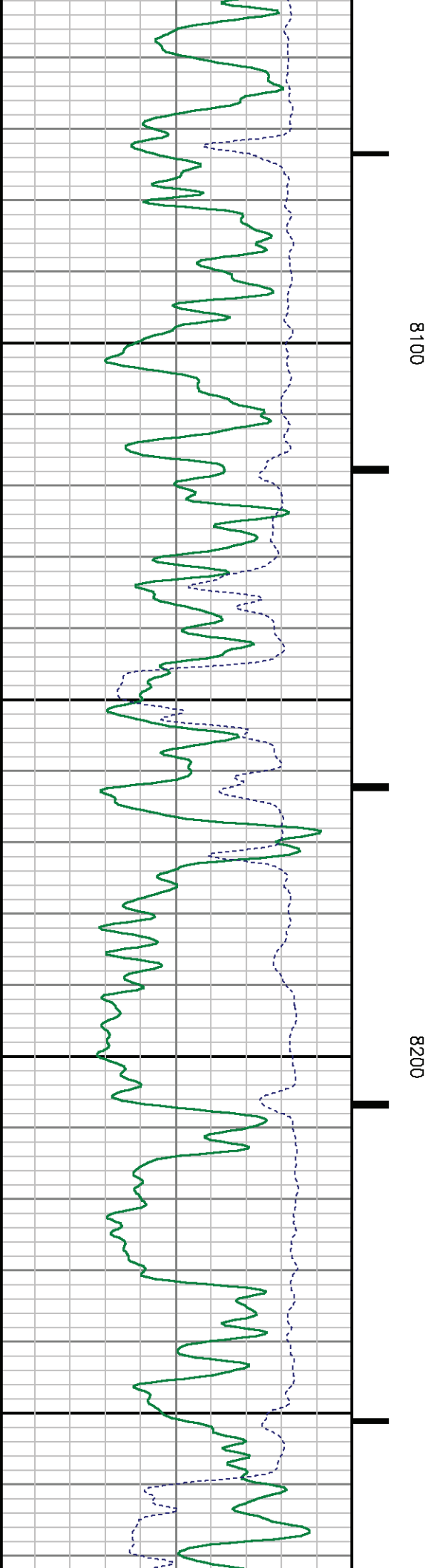
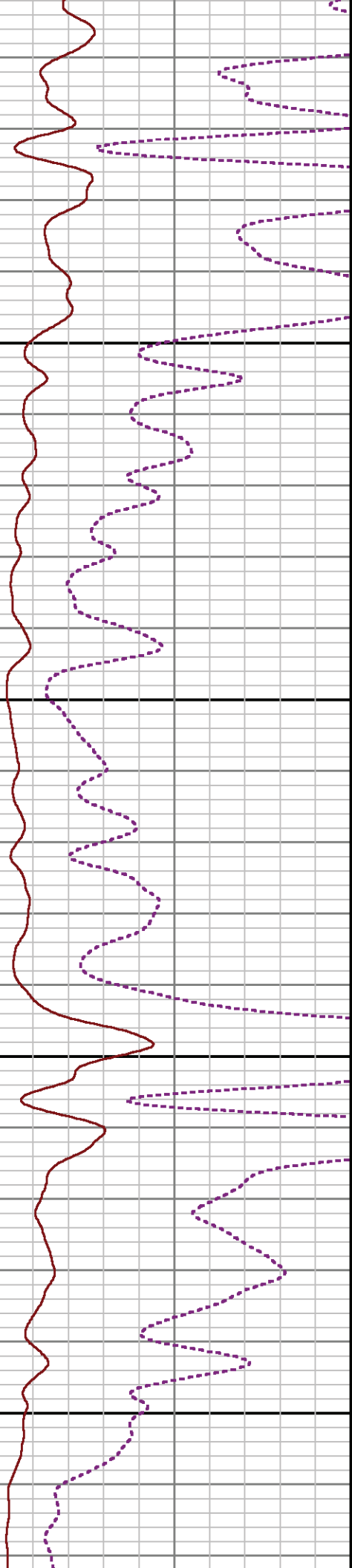
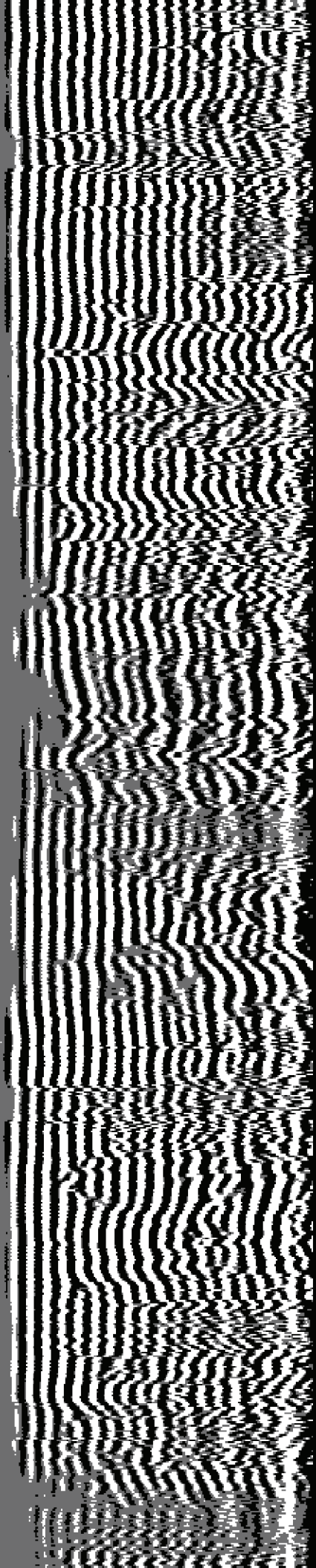
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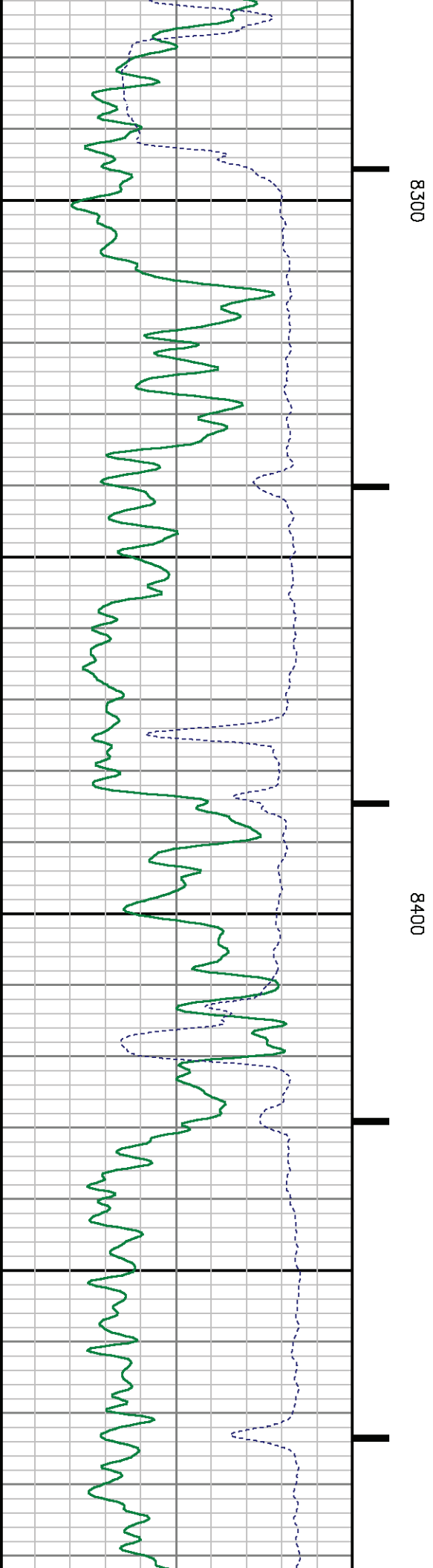
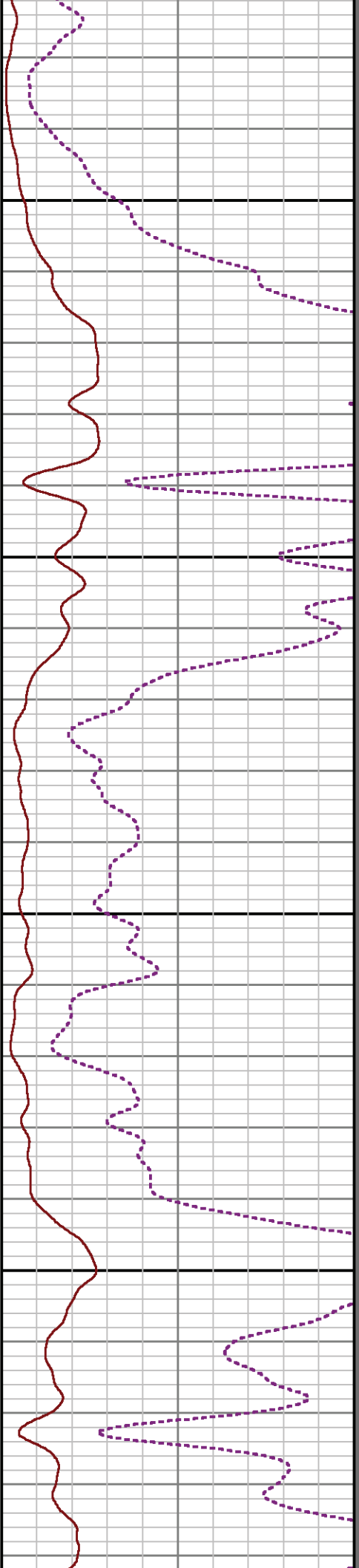
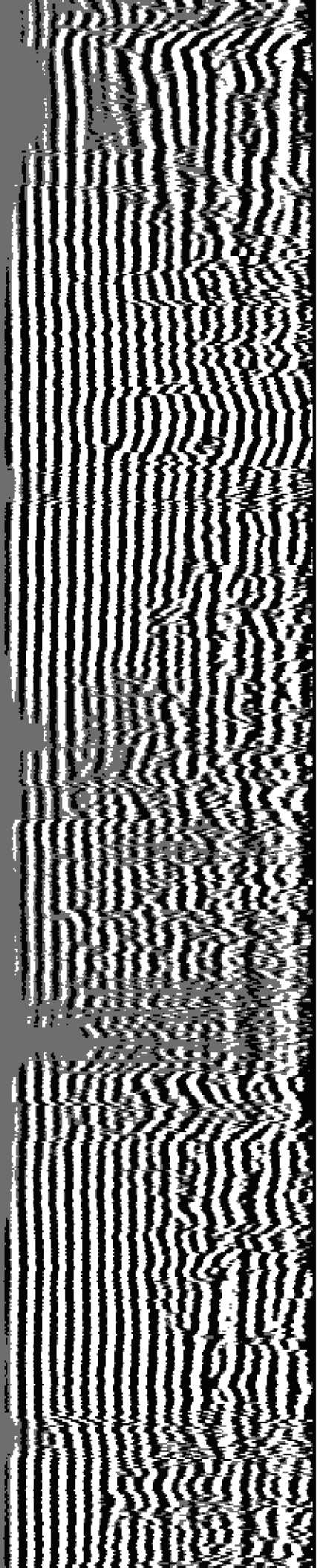


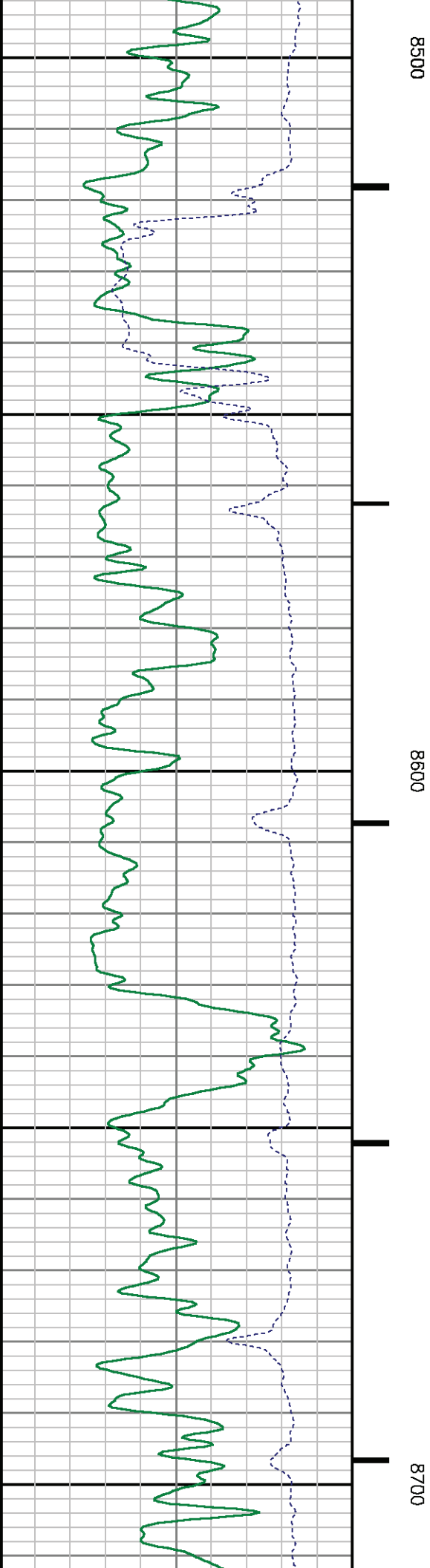
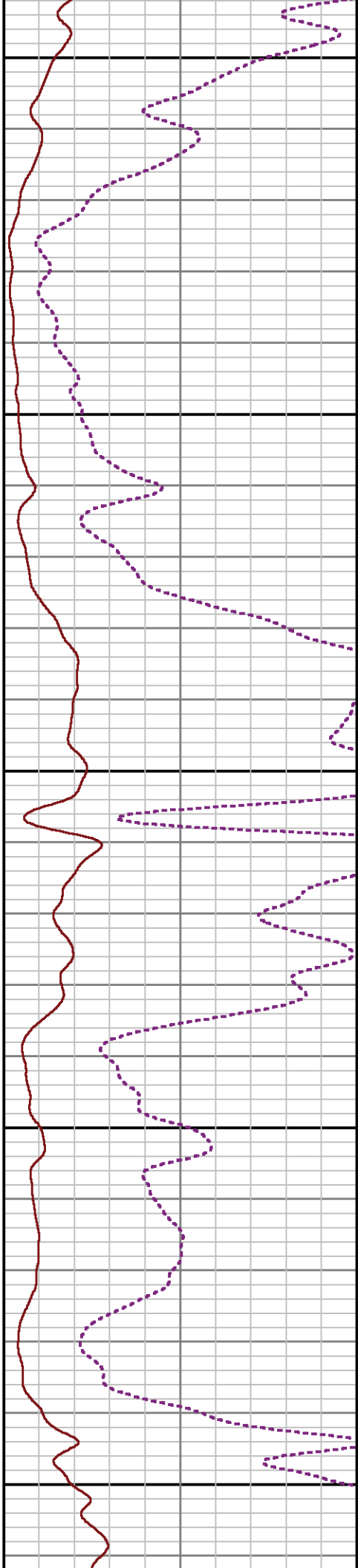
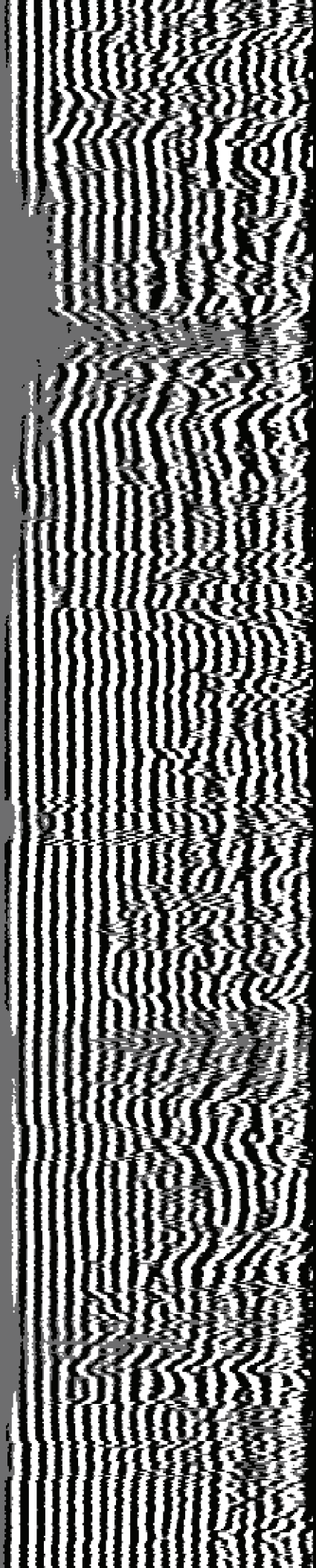


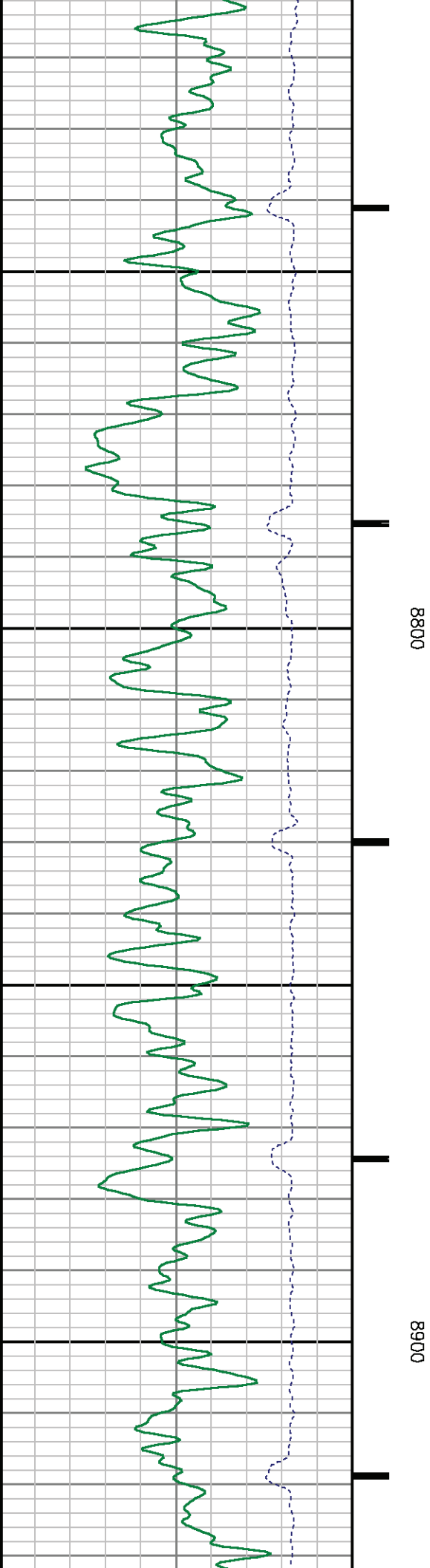
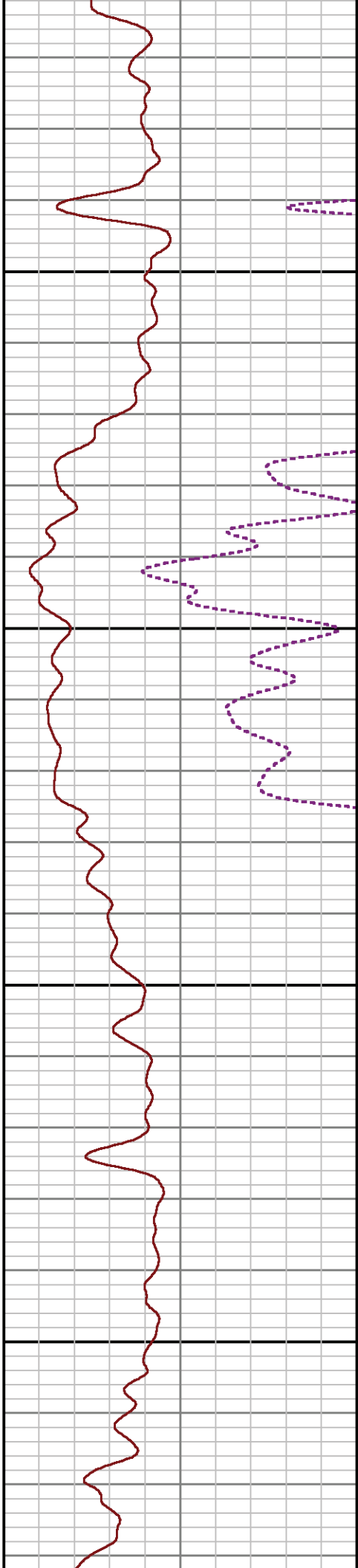
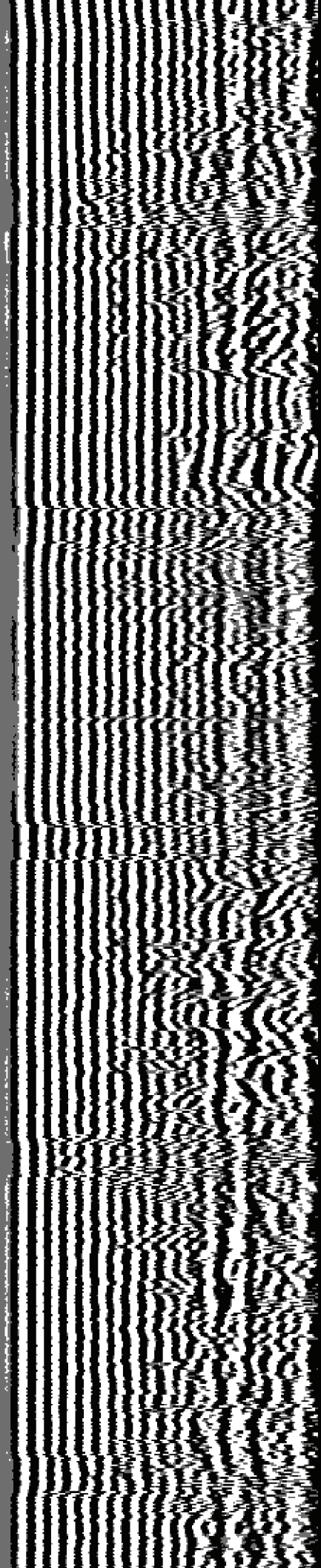


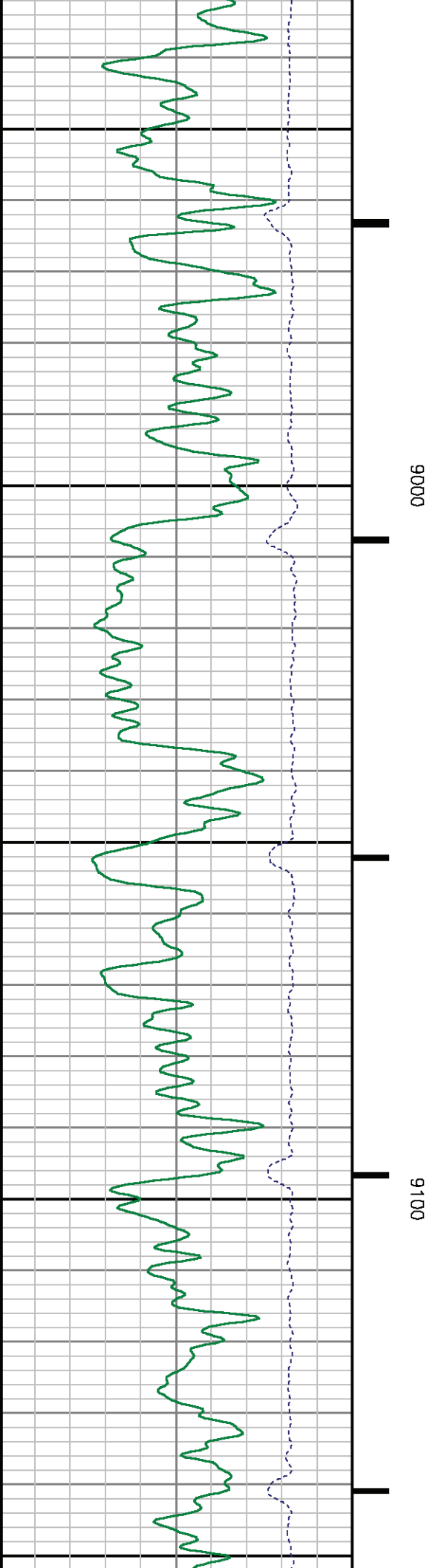
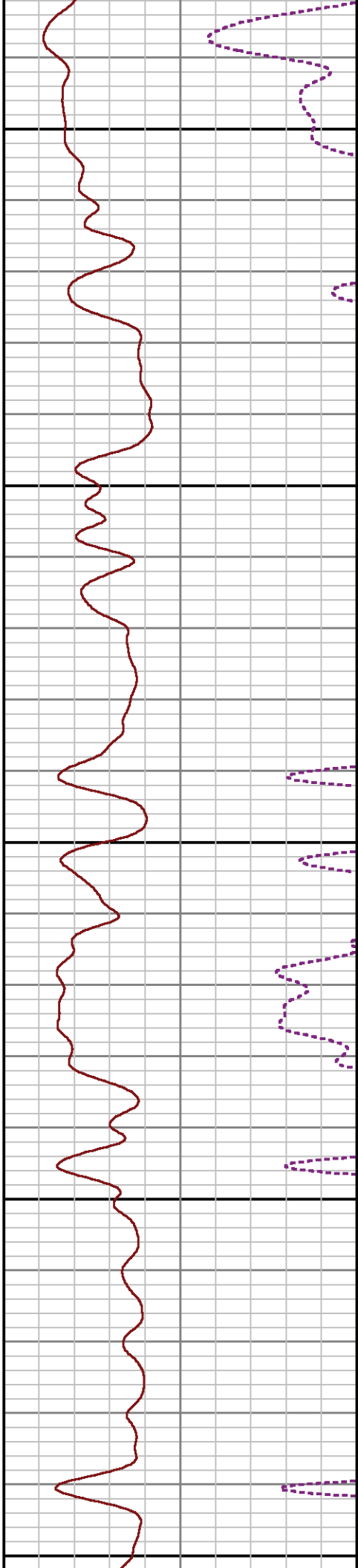
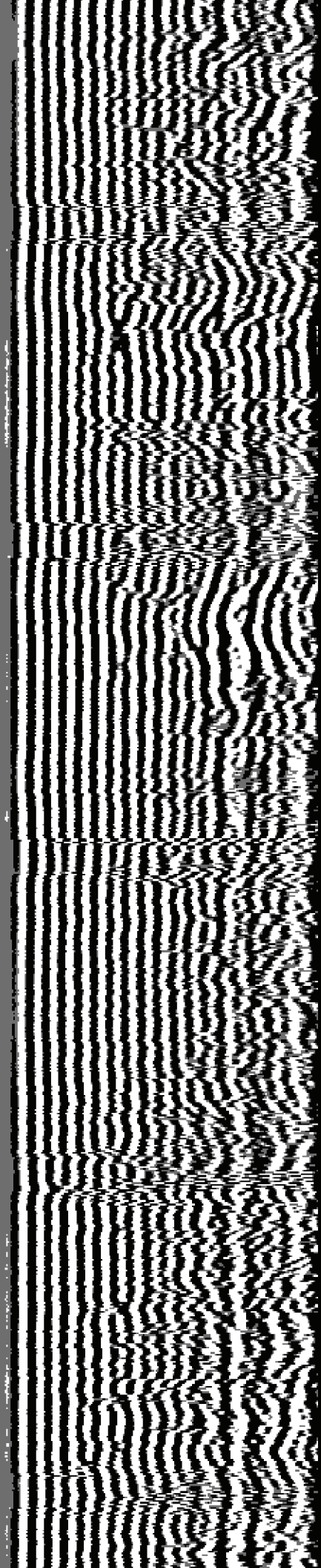


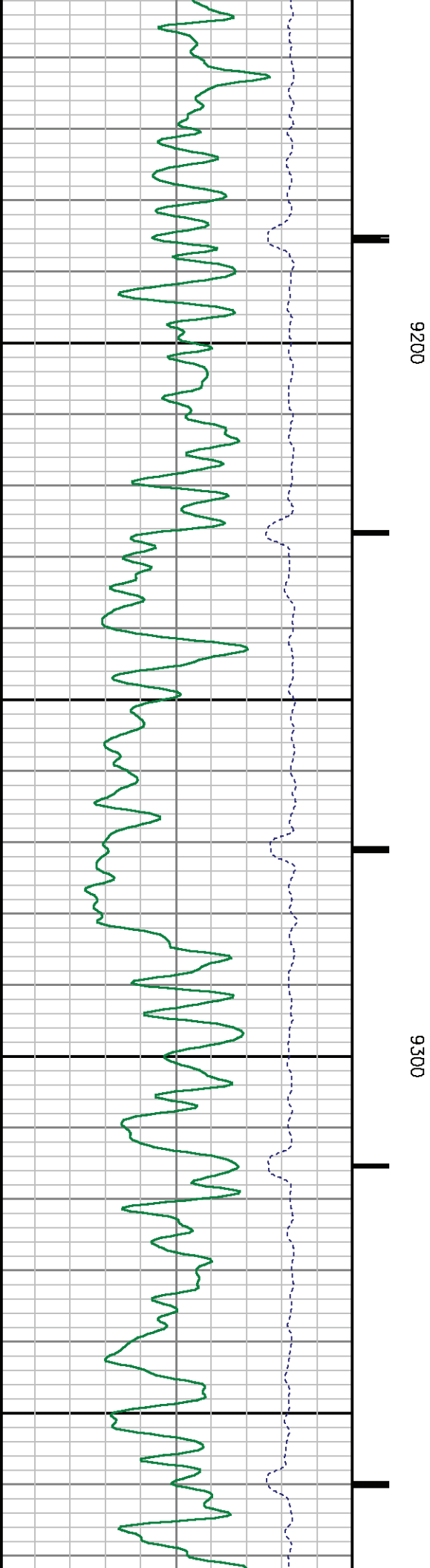
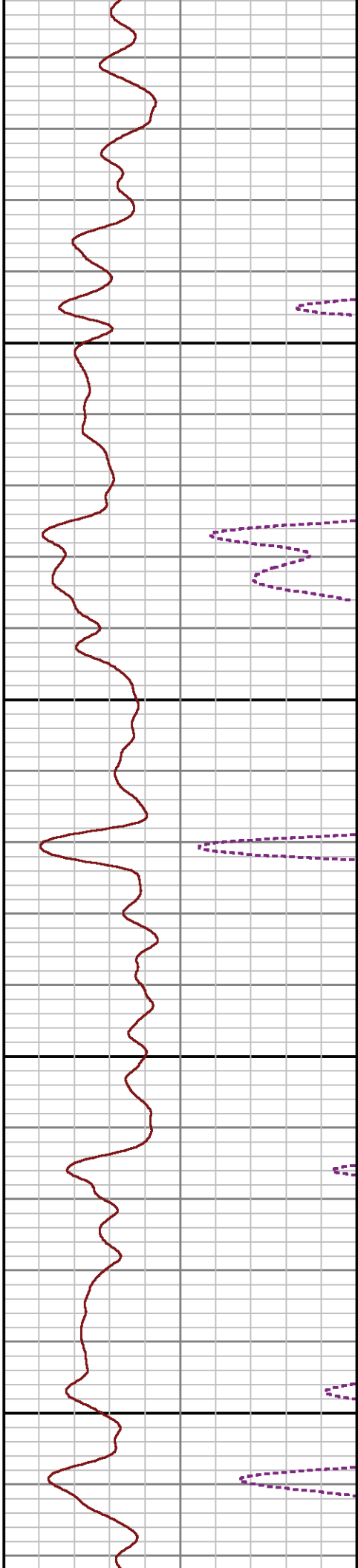
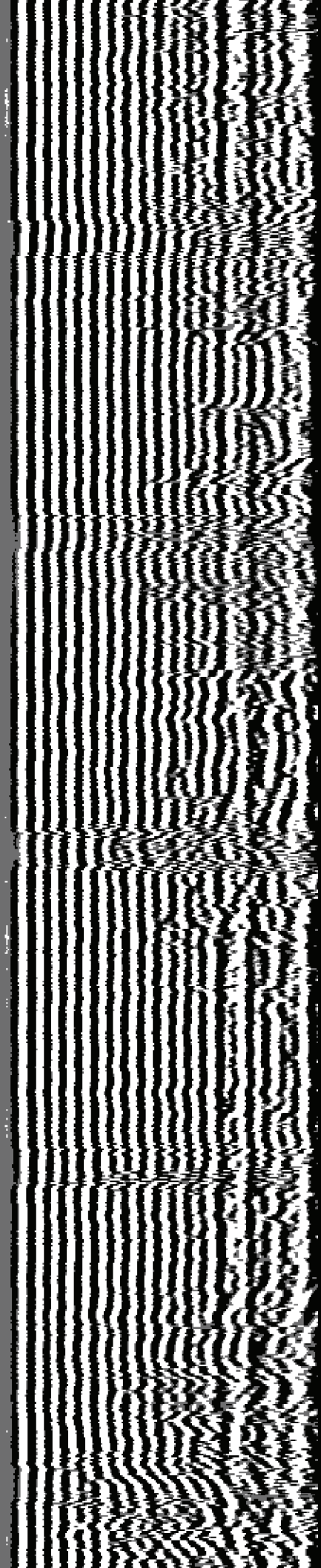


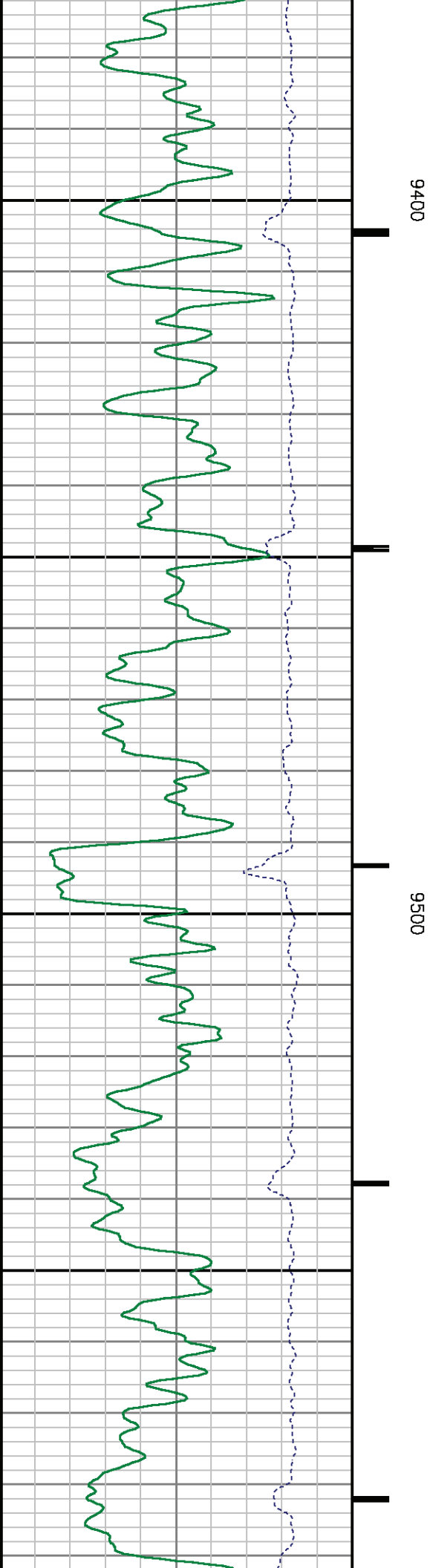
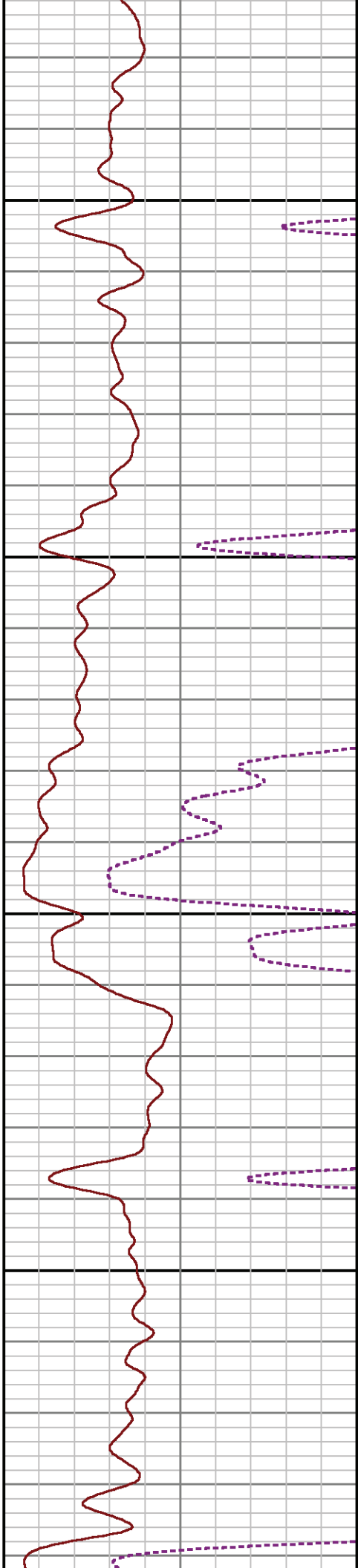
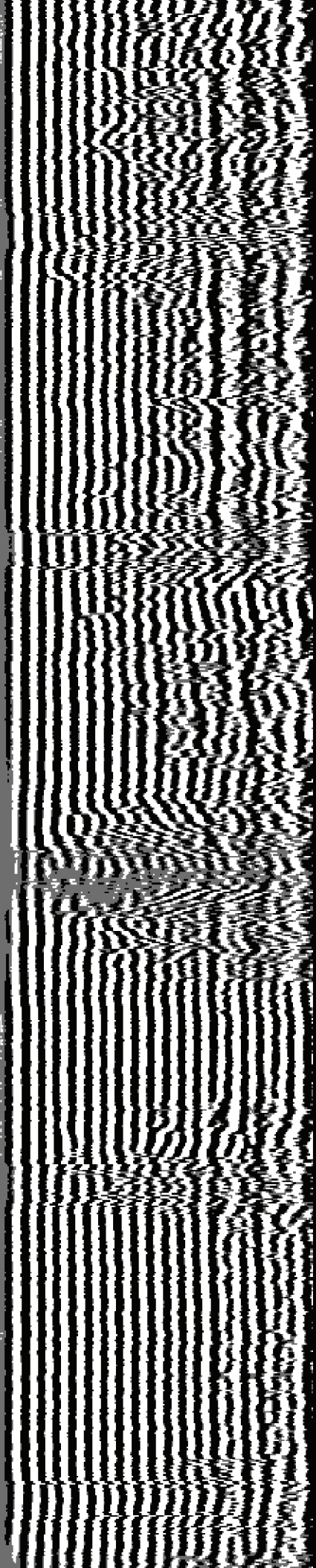


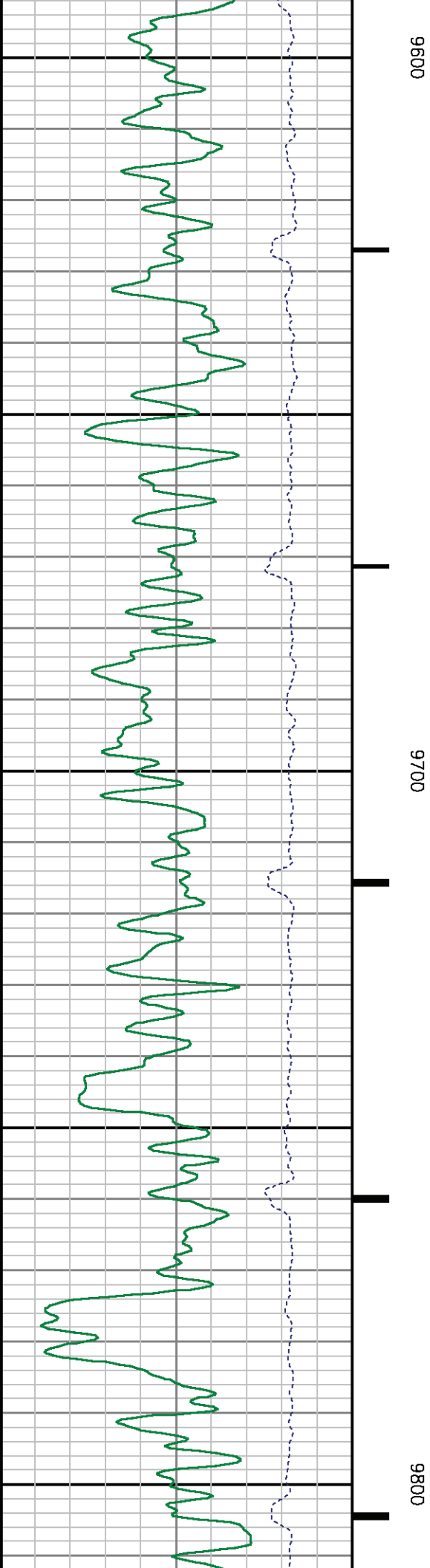
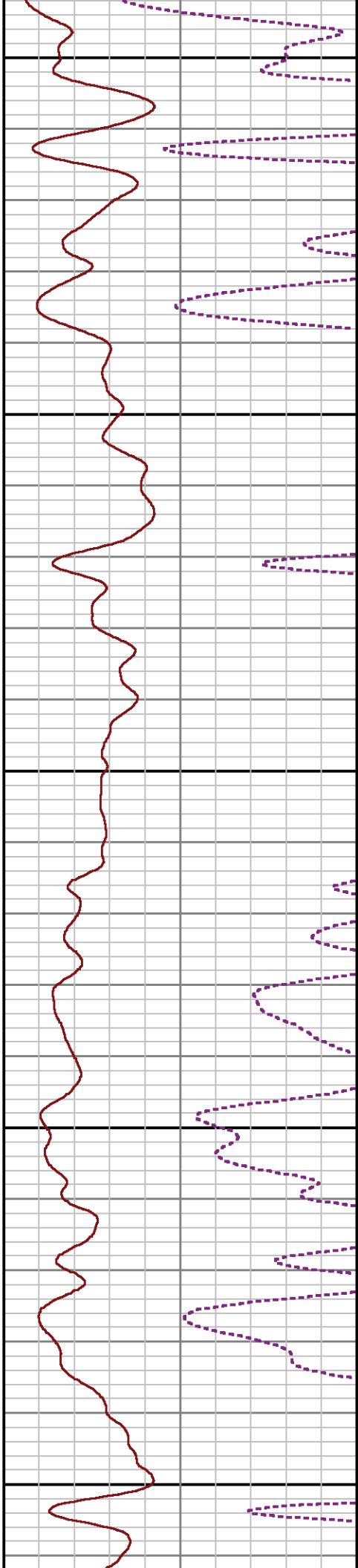
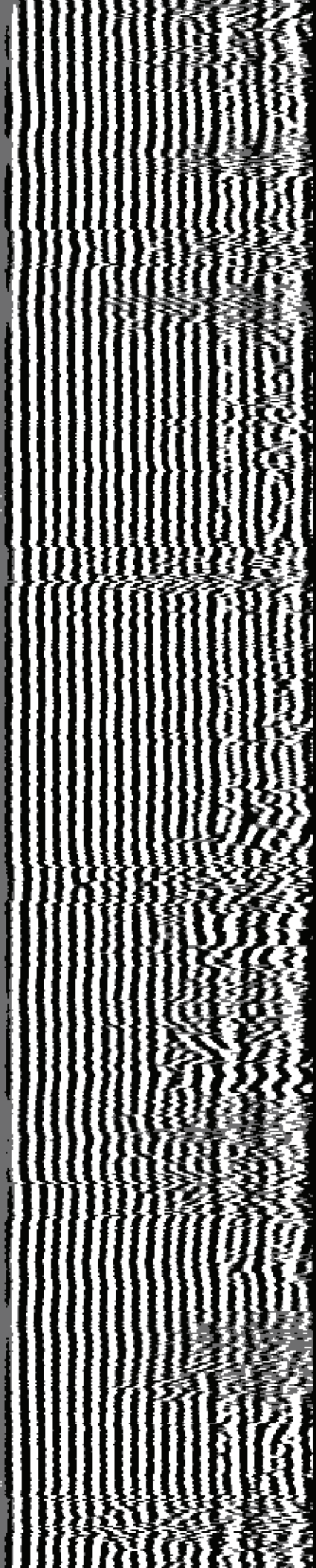


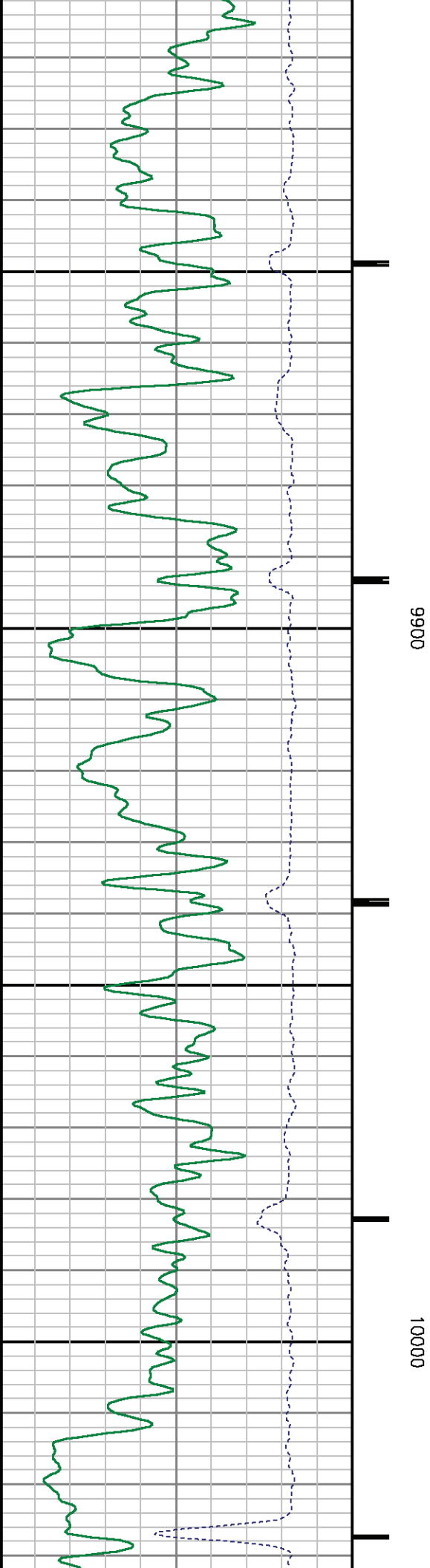
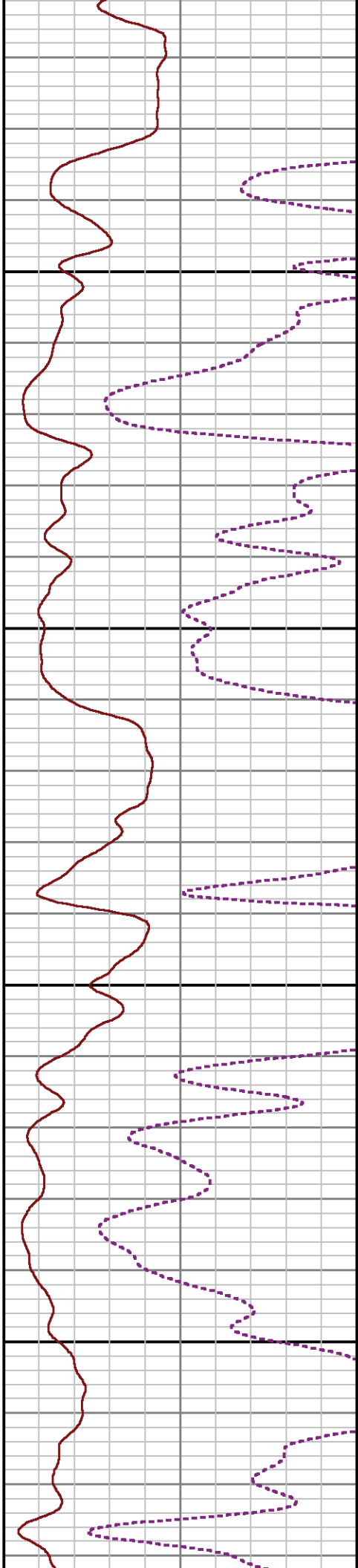
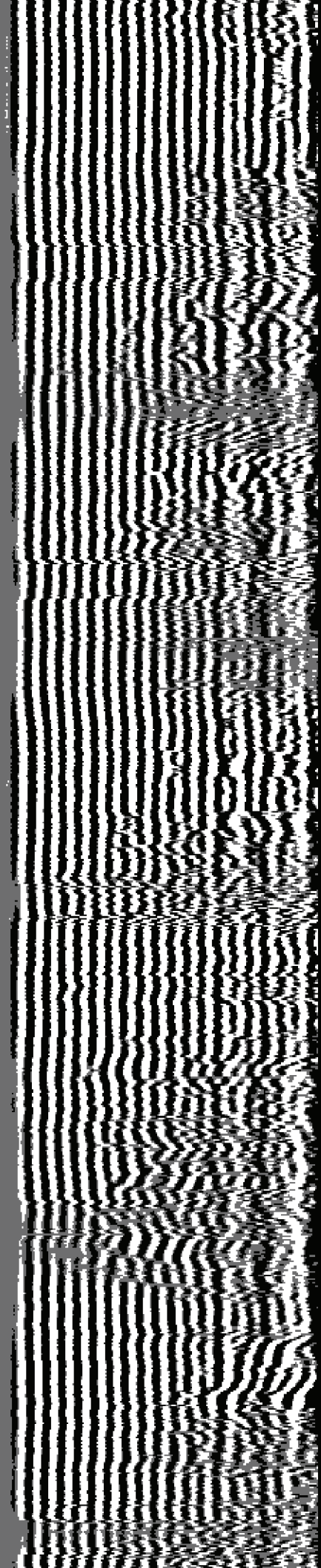


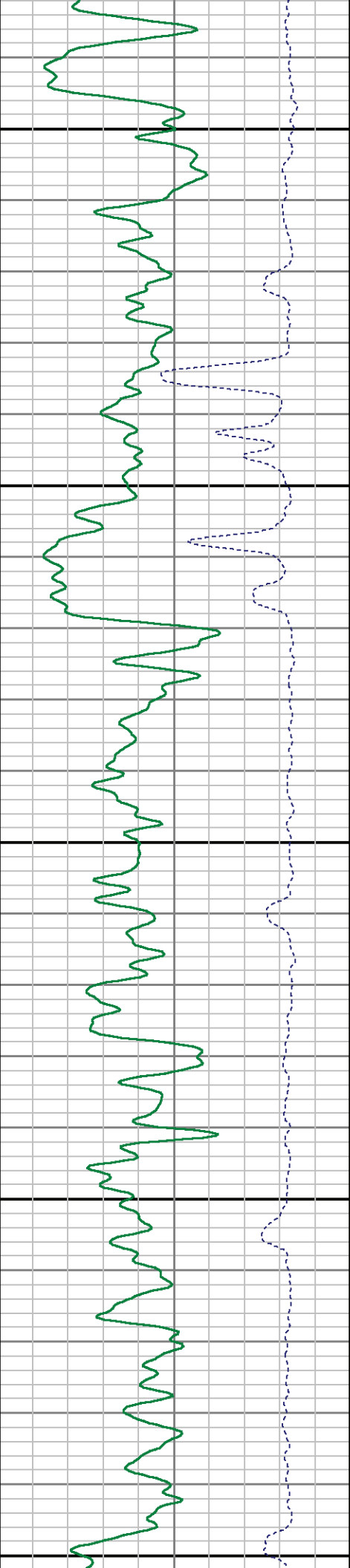
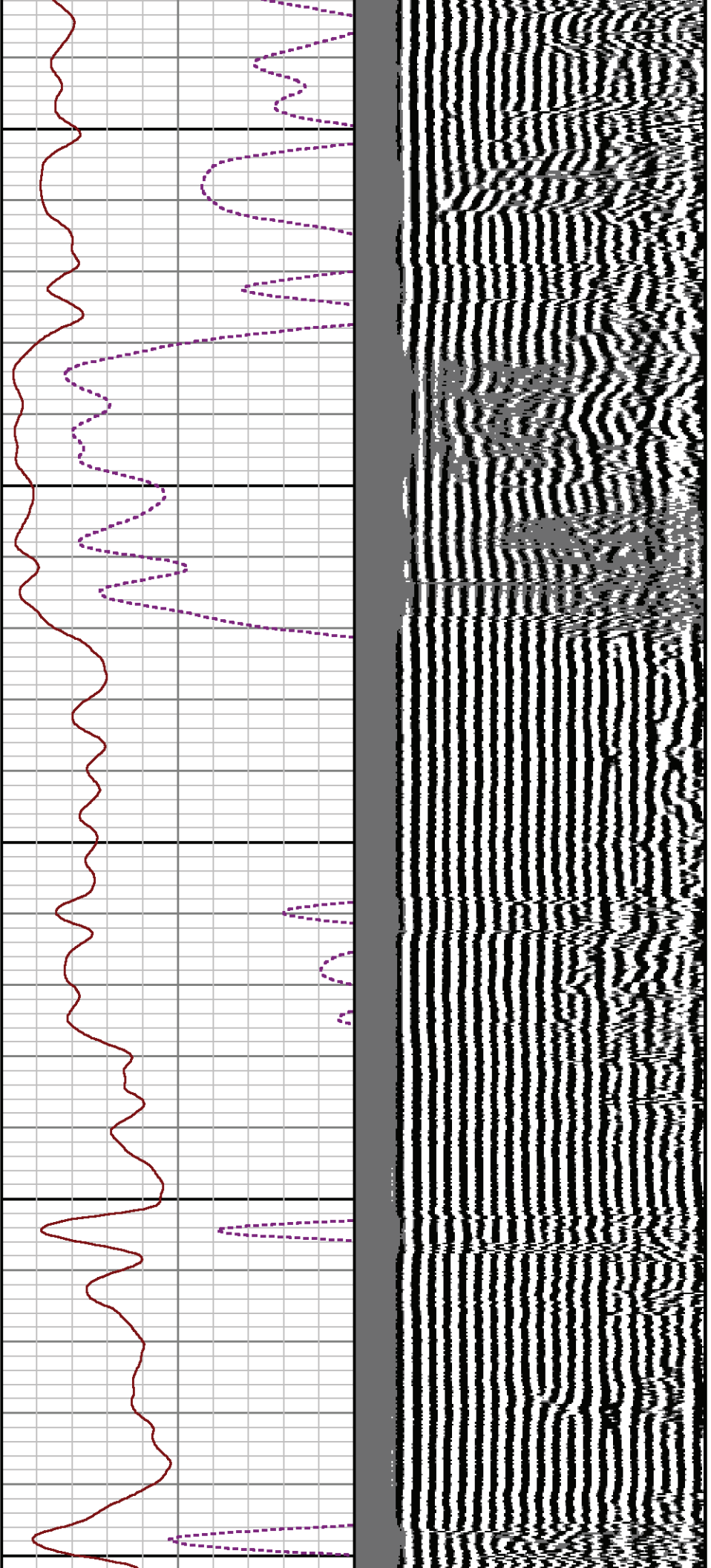


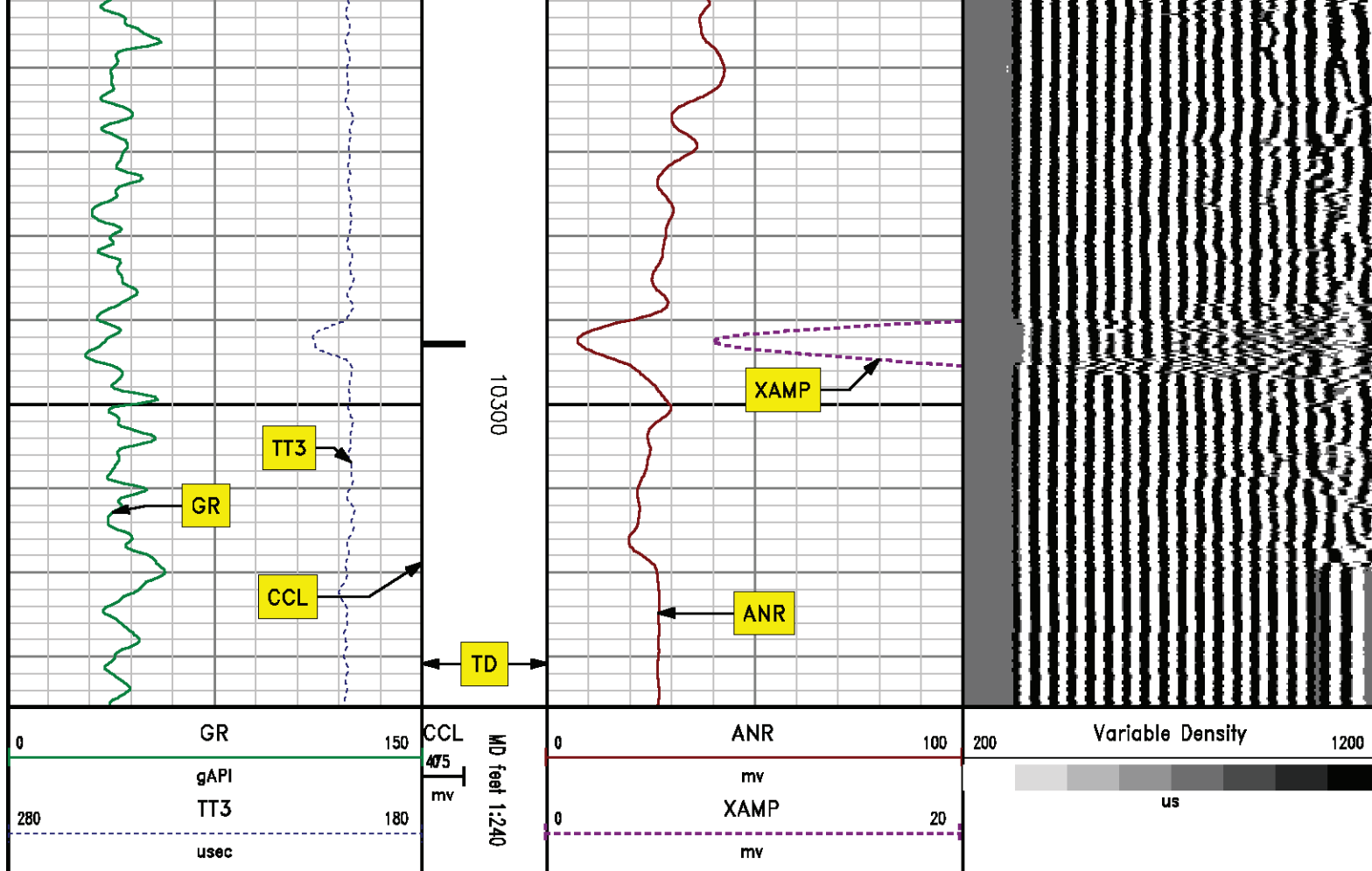












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	32.124	10349.000
RAL	Amp Gate Start Near	195.000	usec	32.124	10349.000
RAL	Amp Gate Start Radial	195.000	usec	32.124	10349.000
RAL	Amp Gate Width Far	25.000	usec	32.124	10349.000
RAL	Amp Gate Width Near	25.000	usec	32.124	10349.000
RAL	Amp Gate Width Radial	25.000	usec	32.124	10349.000
RAL	casing od	4.500	inches	32.124	10349.000
RAL	casing wt	11.600	lbm/ft	32.124	10349.000
RAL	FB Start Far	291.900	usec	32.124	10349.000
RAL	FB Start Near	175.391	usec	32.124	10349.000