



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH087290 FEDERAL NER 513-32

API No: RULISON

05045217650000 GARFIELD State CO

## Location

SHL: 149' FNL & 2582' FWL (5 75 93W)

BHL: 1450' FSL & 648' FWL (32 55 93W)

SEC 32 TWP 6S RGE 93W

## Other Services

RPM

Permanent Datum GL Elevation 7603

Log Measured From KB 26 Above P. D.

Drill Measured From KB

## Elevations

KB 7629

DF

GL 7603

Date	12/JUL/14
Run	ONE
Service Order	US087290
Depth Driller	10480
Depth Logger	10428
Bottom Logged Interval	10418
Top Logged Interval	26
Time Started	13:00
Time Finished	17:30
Operator Rig Time	4.5 HOURS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	86
Logged Cement Top	NA
Wellhead Pressure	0
Maximum Hole Deviation	NA
Nominal Logging Speed	65
Maximum Recorded Temperature	241
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JUNCTION
Recorded By	NEWMELL
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	0	1147
8.75	1147	10524

Casing Record				
Size	Weight	Grade	From	To
9.625			0	1147
4.5	11.6	P-110	0	10524

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 = 241 °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	28.593	10438.500
RAL	Amp Gate Start Near	195.000	usec	28.593	10438.500
RAL	Amp Gate Start Radial	195.000	usec	28.593	10438.500
RAL	Amp Gate Width Far	25.000	usec	28.593	10438.500
RAL	Amp Gate Width Near	25.000	usec	28.593	10438.500
RAL	Amp Gate Width Radial	25.000	usec	28.593	10438.500
RAL	casing od	4.500	inches	28.593	10438.500
RAL	casing wt	11.600	lbm/ft	28.593	10438.500
RAL	FB Start Far	291.900	usec	28.593	10438.500
RAL	FB Start Near	175.391	usec	28.593	10438.500
RAL	FB Start Radial	175.391	usec	28.593	10438.500
RAL	FB Thresh Far	10.000	mv	28.593	10438.500
RAL	FB Thresh Near	4.000	mv	28.593	10438.500
RAL	FB Thresh Radial	4.000	mv	28.593	10438.500
RAL	Fluid Travel Time	200.000	usec/ft	28.593	10439.030

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : FEDERAL NER 513-32

File Name : d:\welldata\wpx\federal ner 513-32\513cb\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 10433.00 feet UP

Created : 7/13/2014 9:20:56 AM

0

GR

150

gAPI

TT3

u sec

280

180

CCL

MD feet 1:240

850

m v

0

ANR

100

m v

XAMP

m v

0

20

200

Variable Density

1200

us

WELLHEAD

CCL

GR

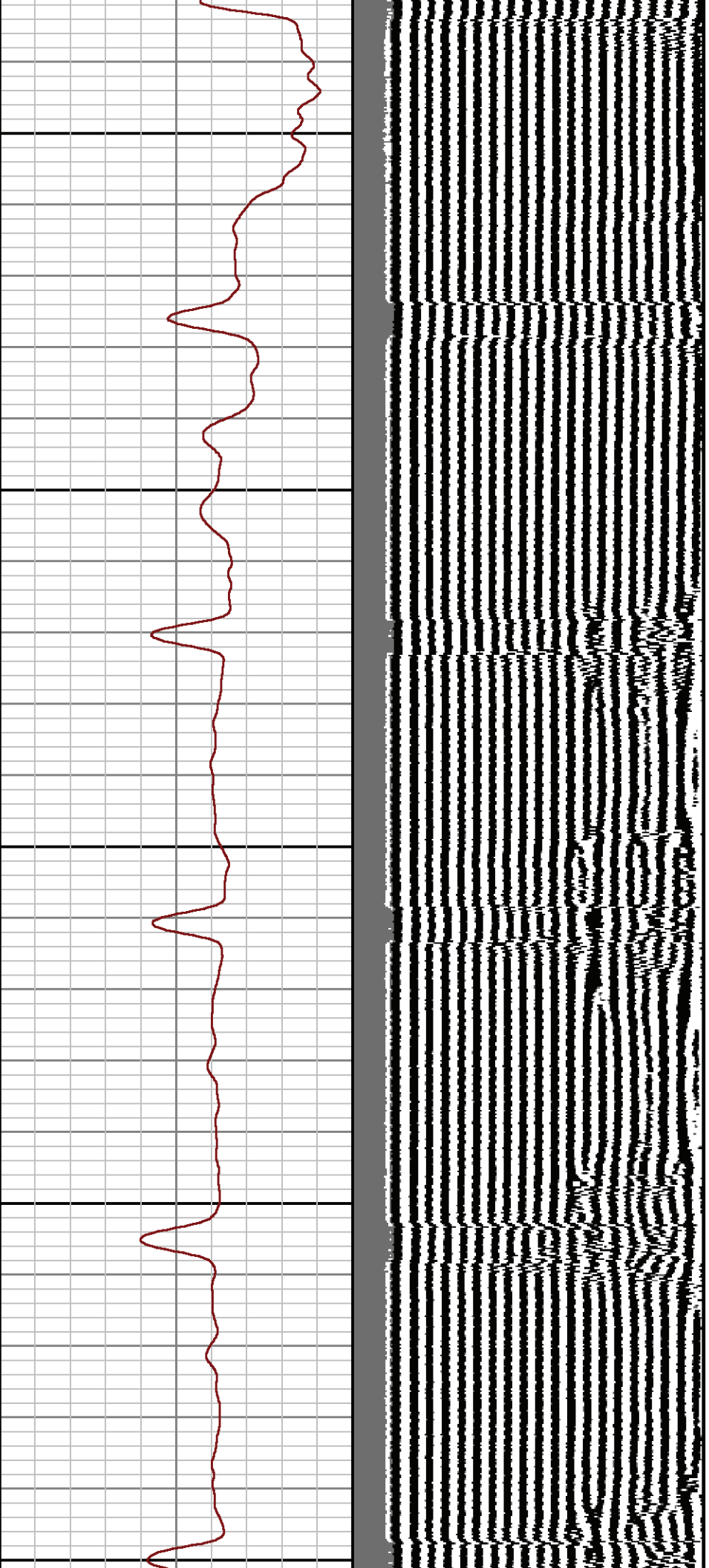
TT3

ANR

XAMP

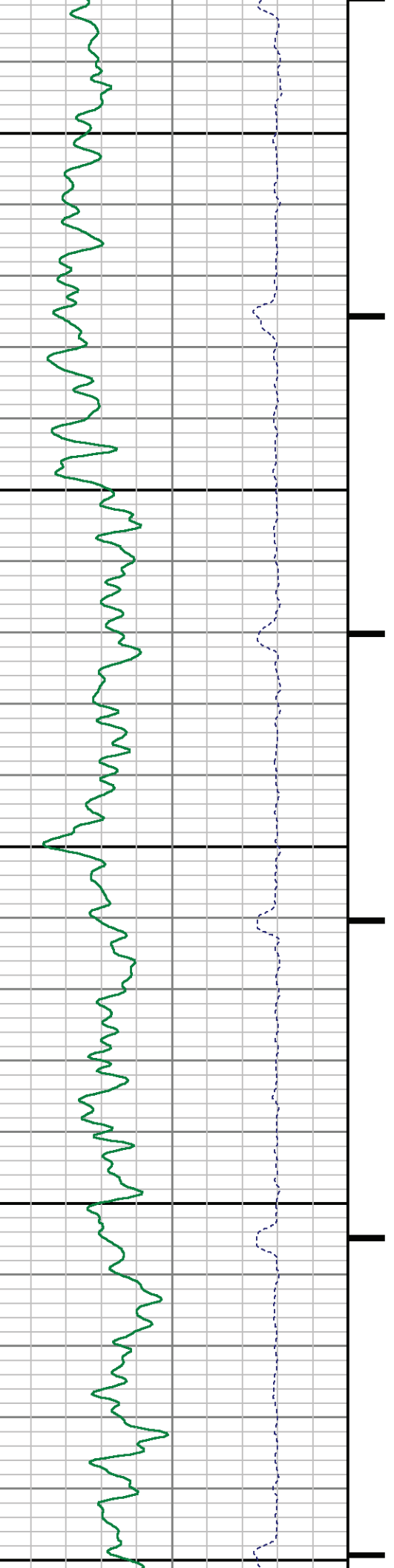
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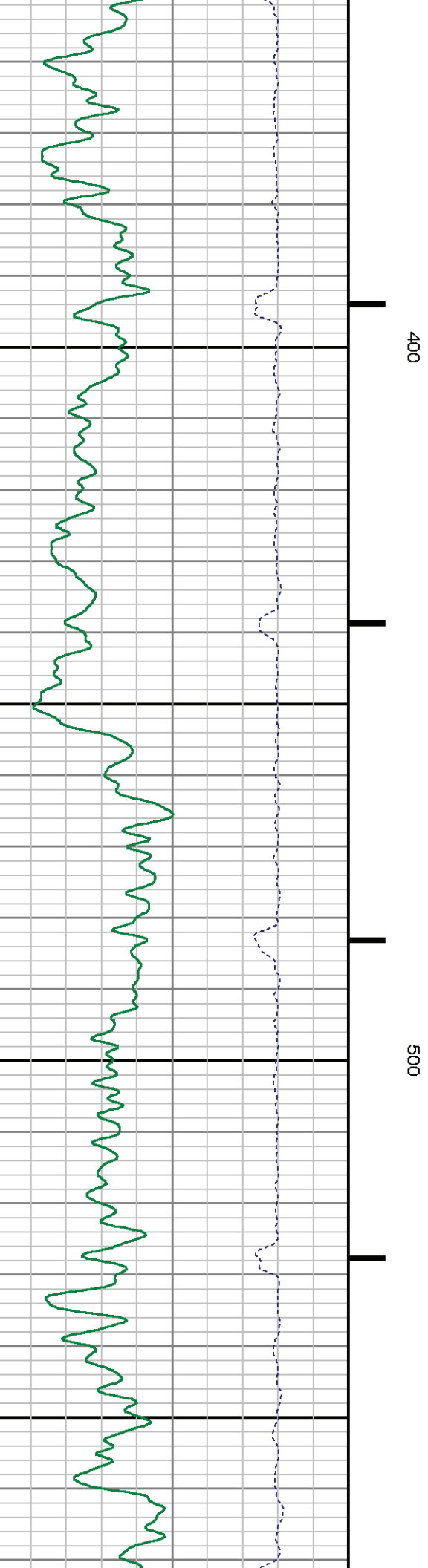
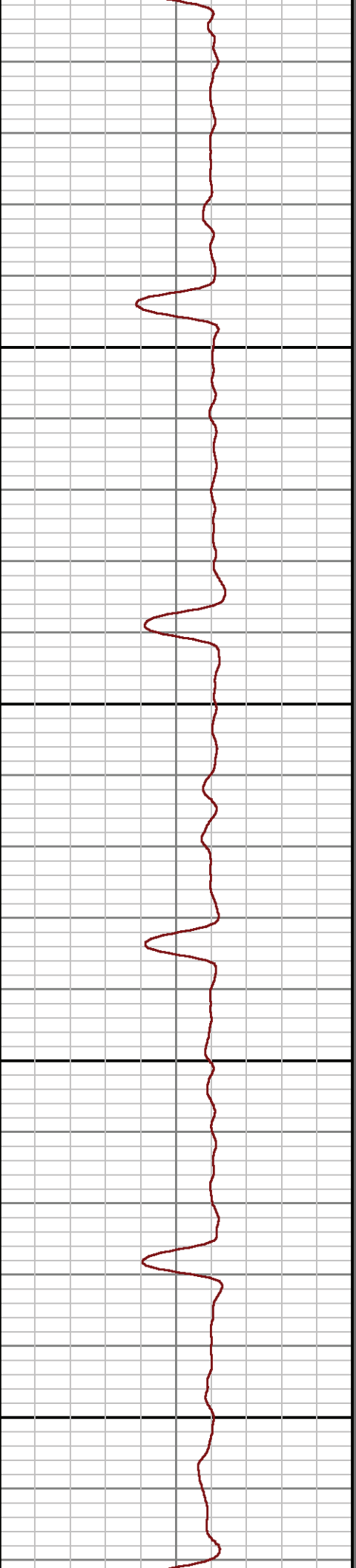
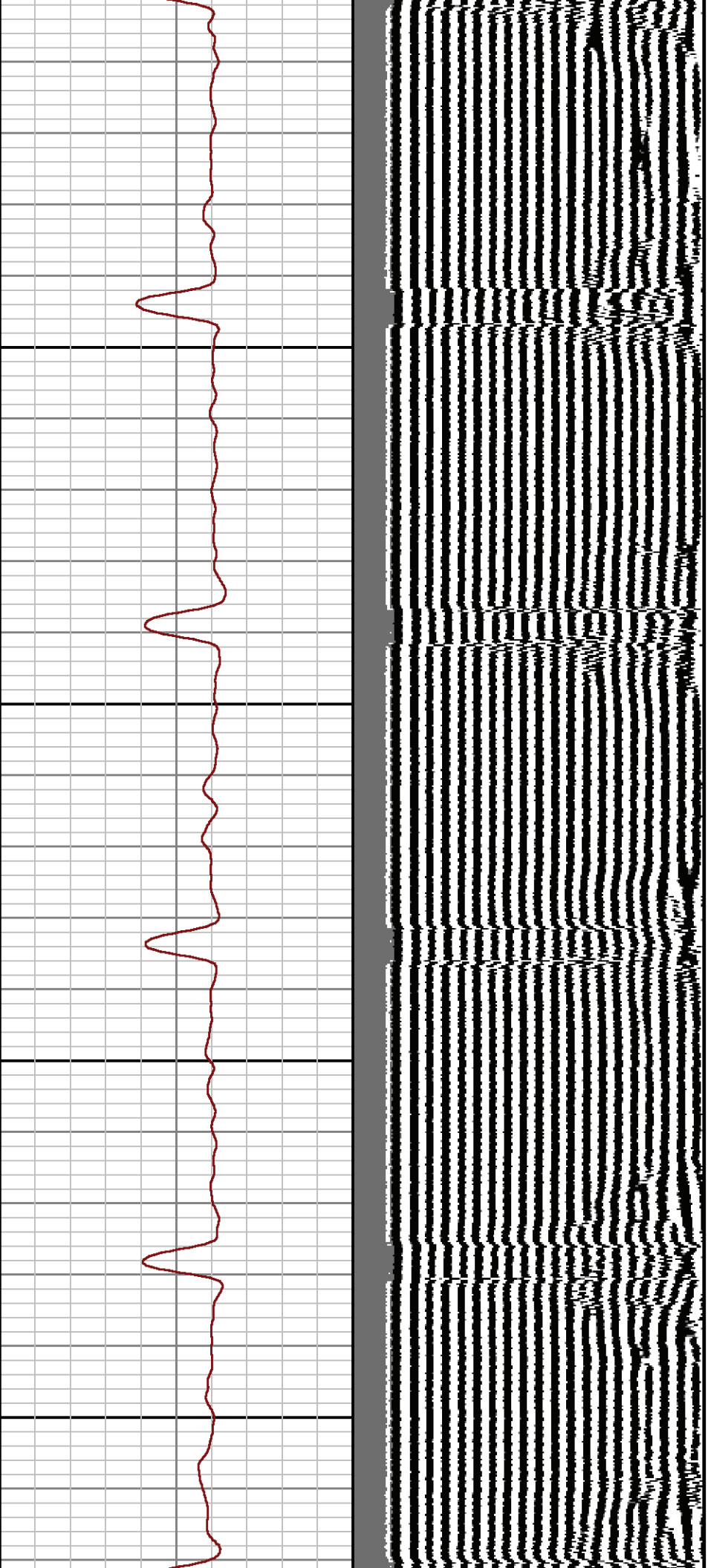
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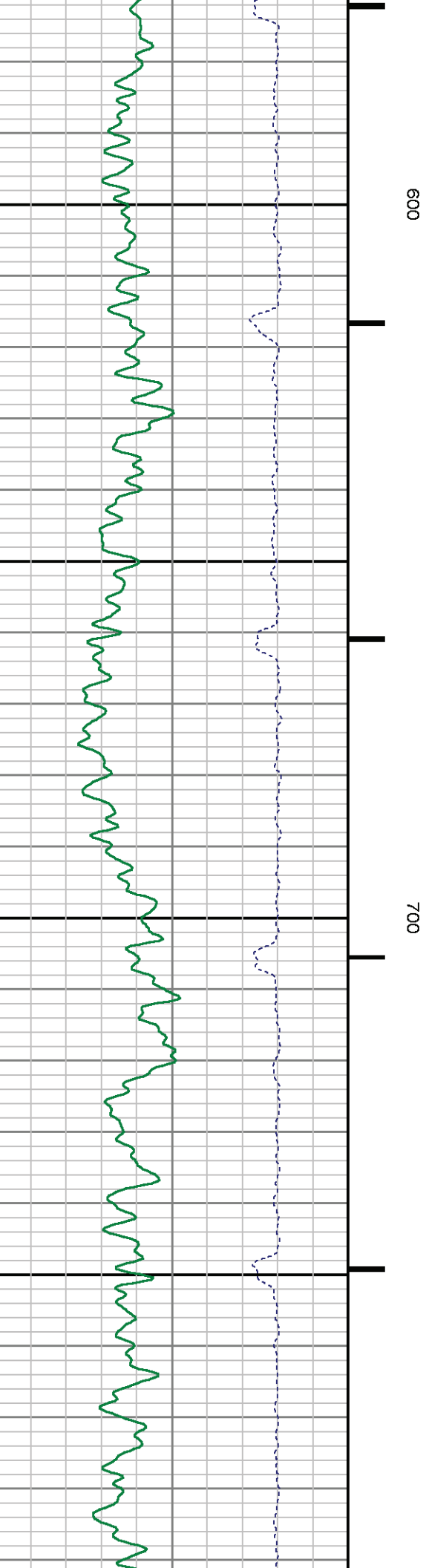
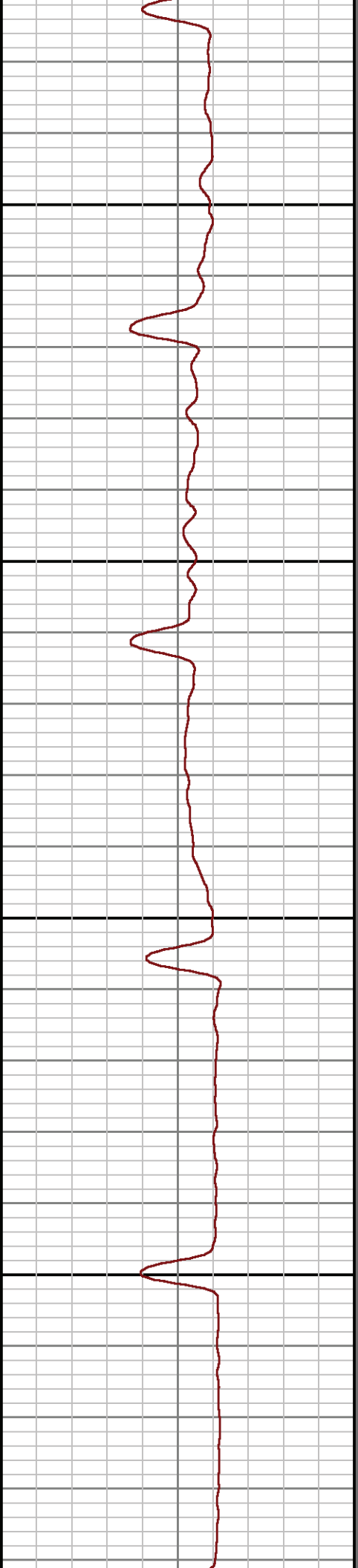
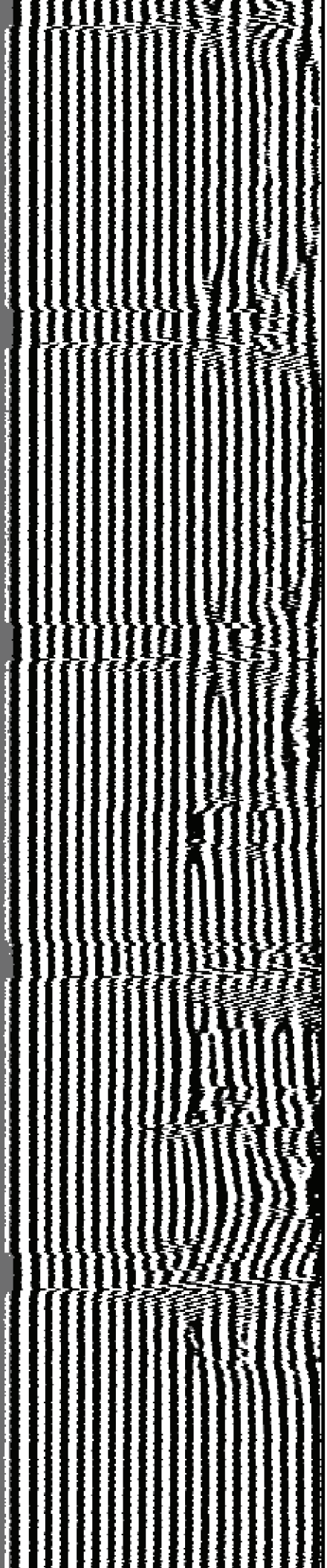


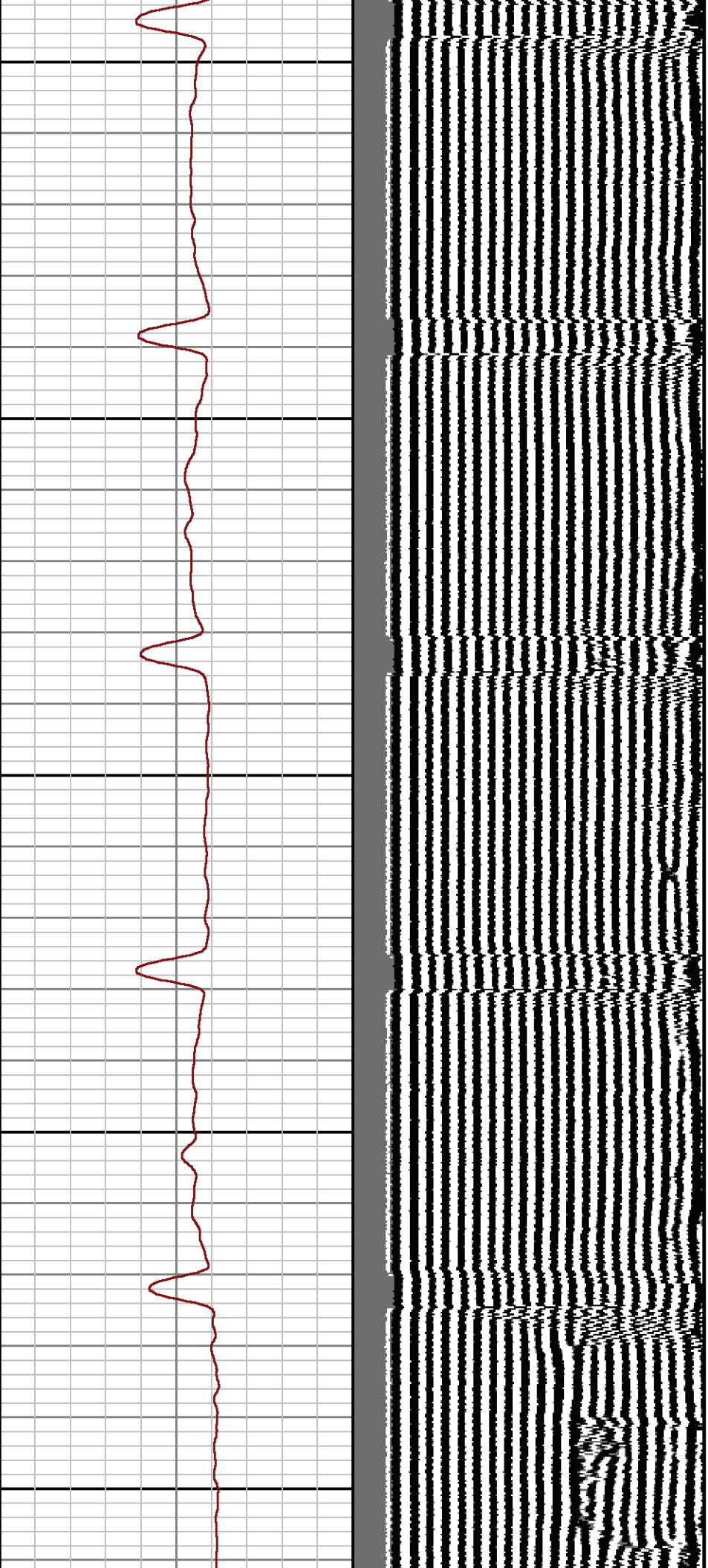
200

300





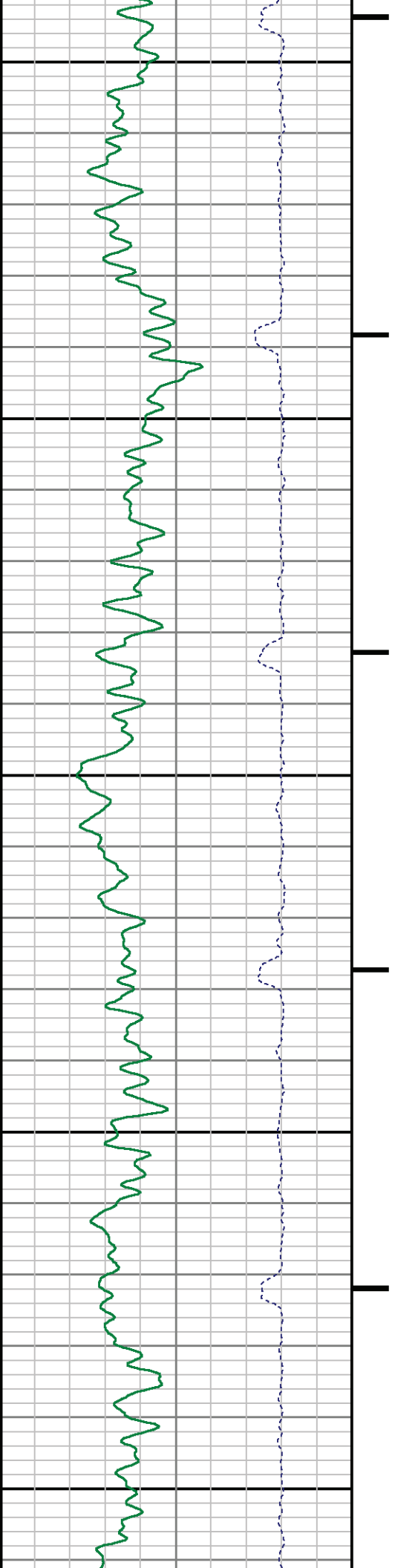




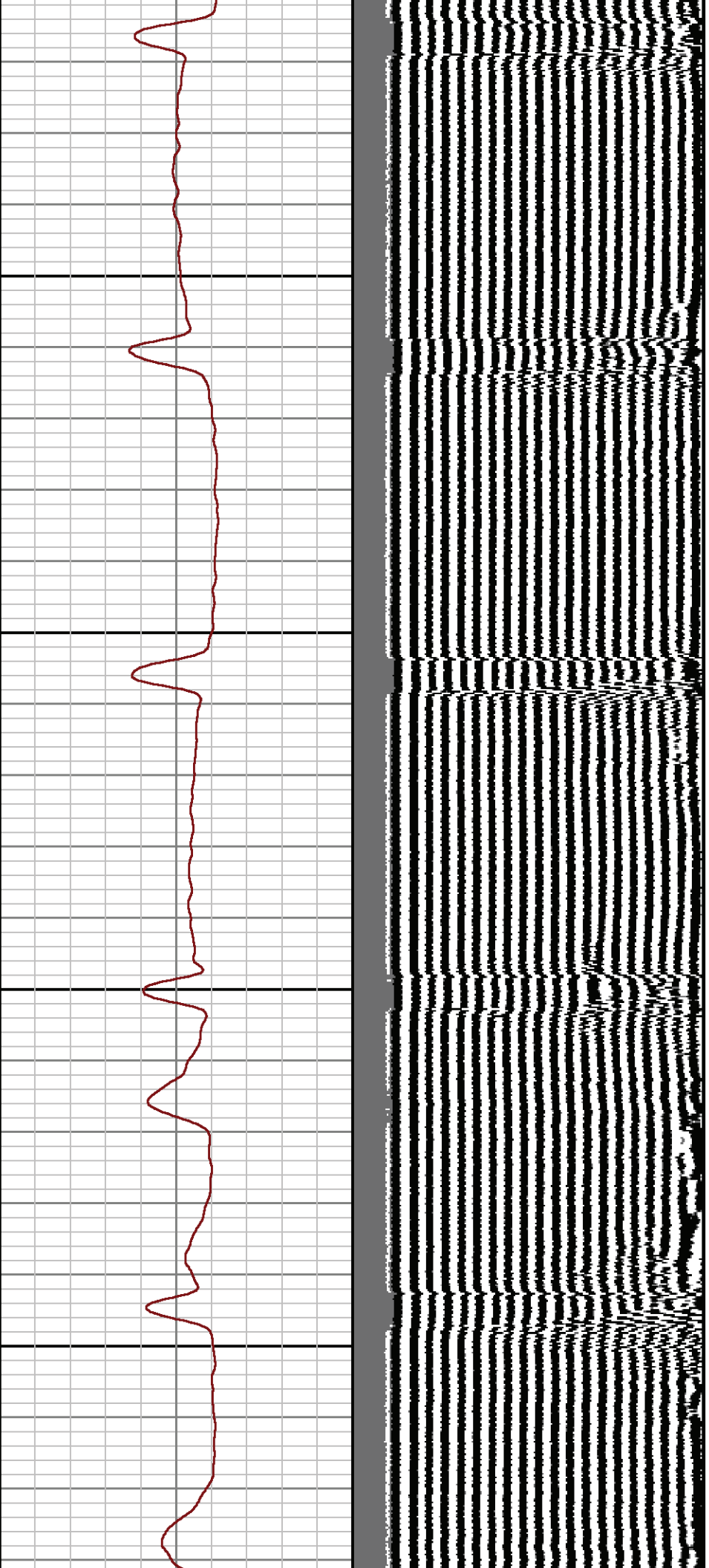
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900

1000

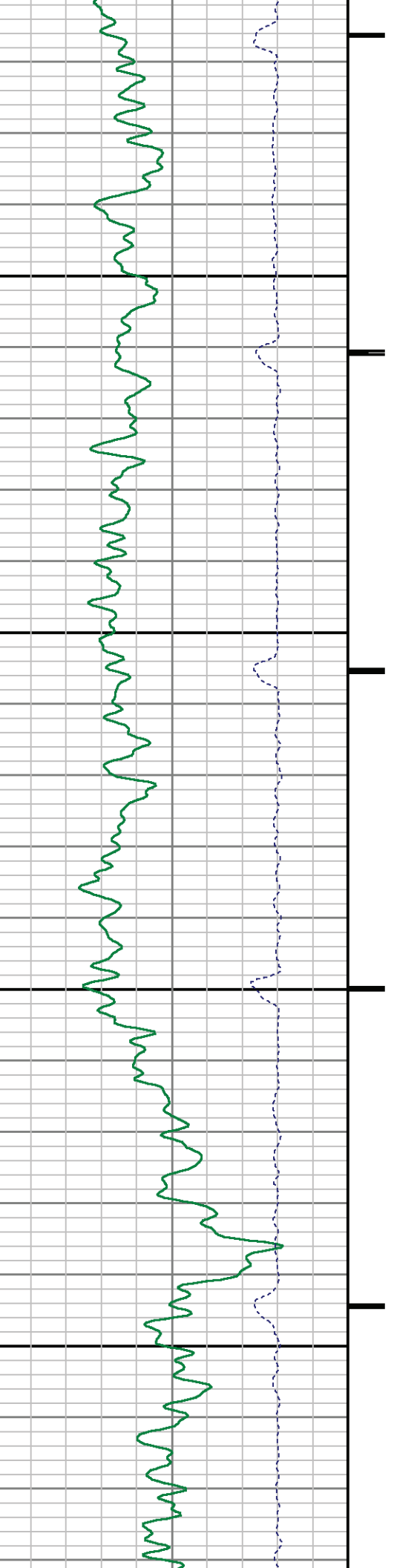




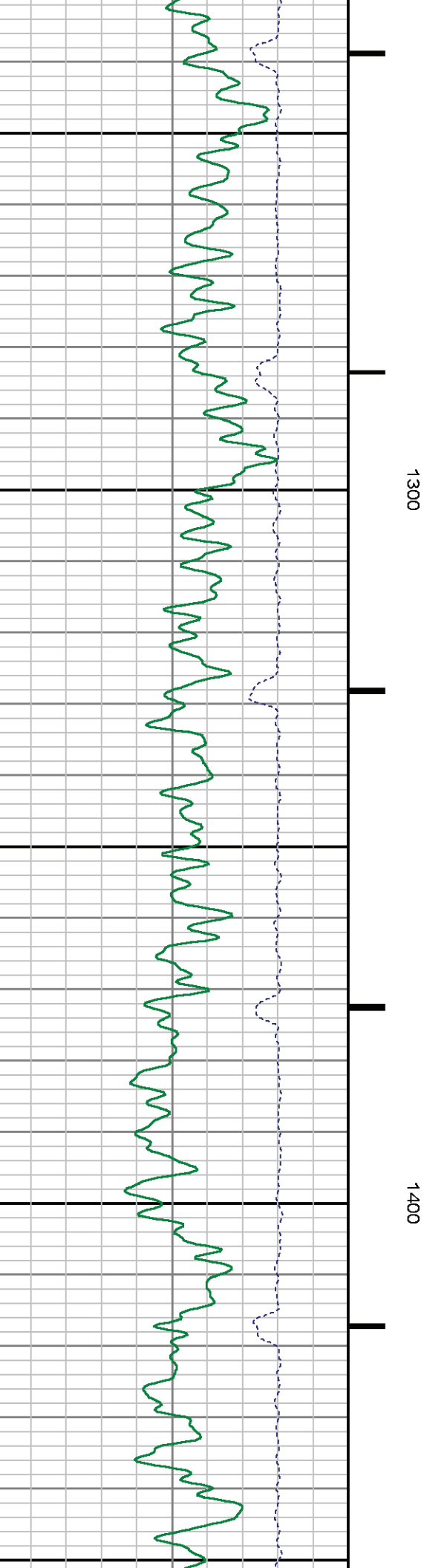
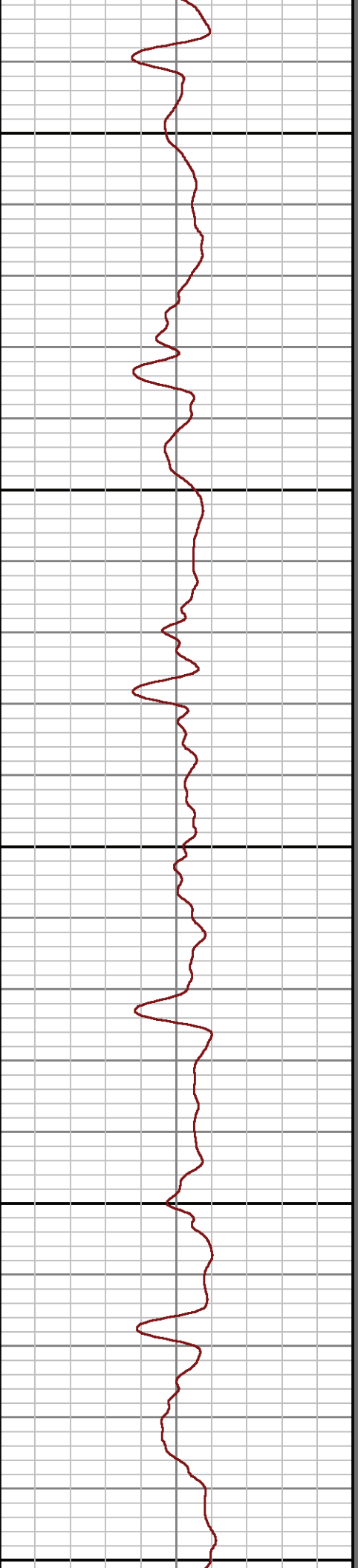
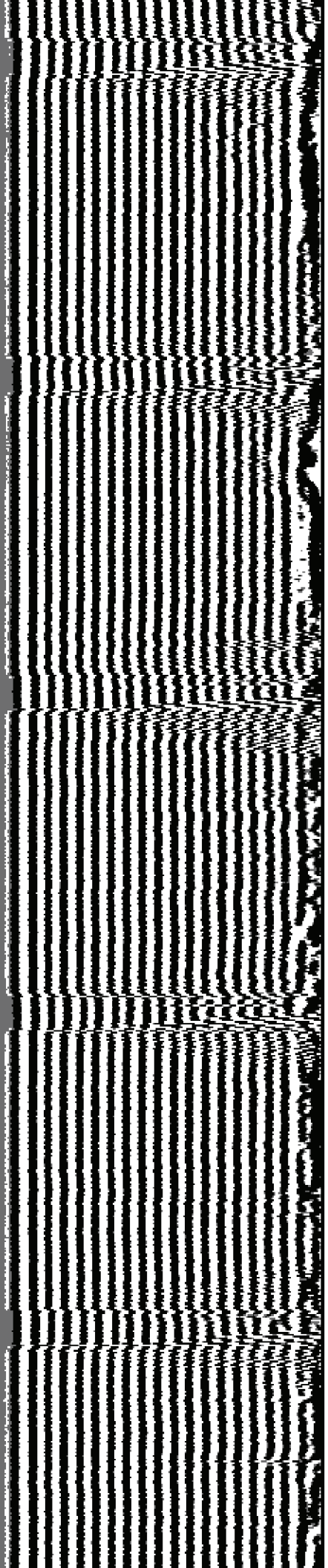


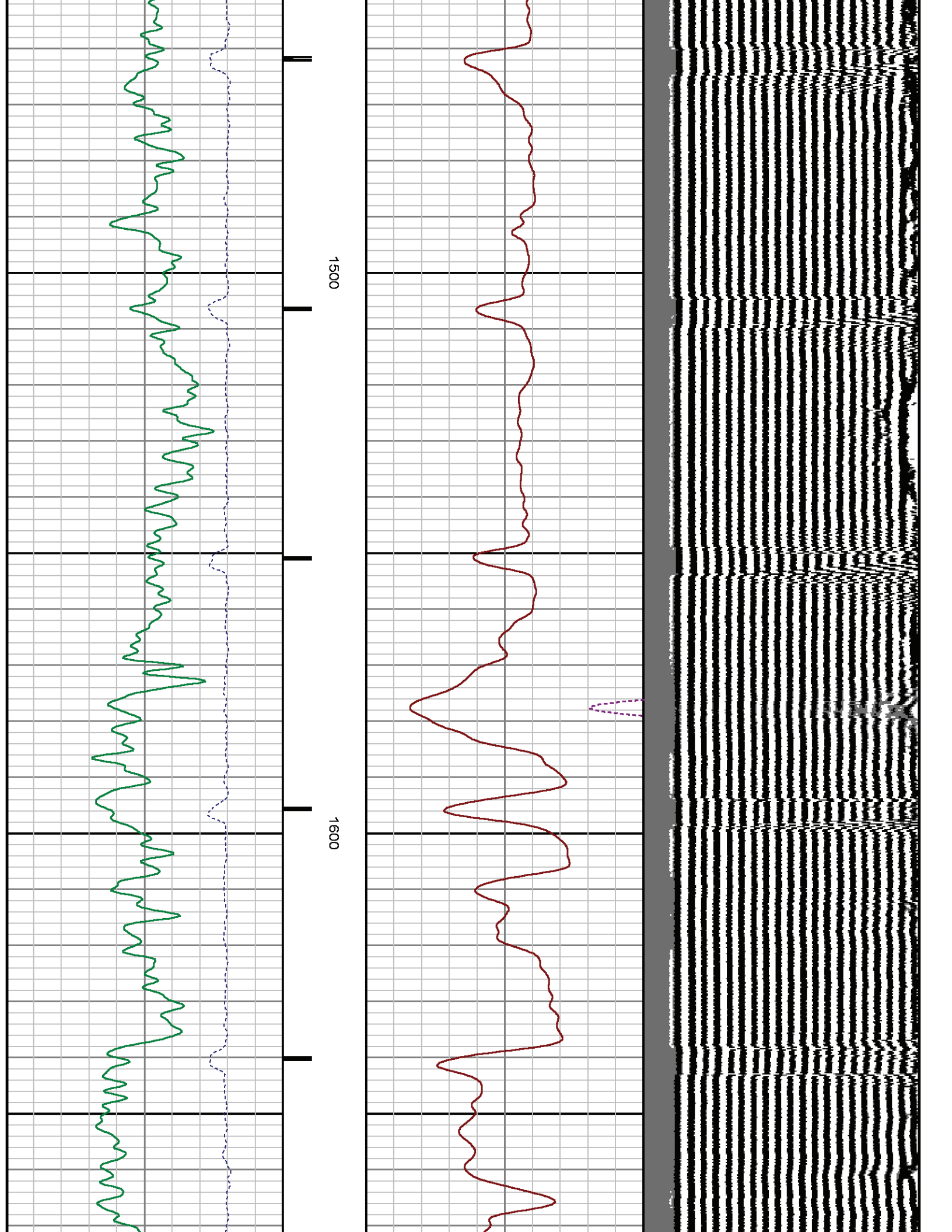
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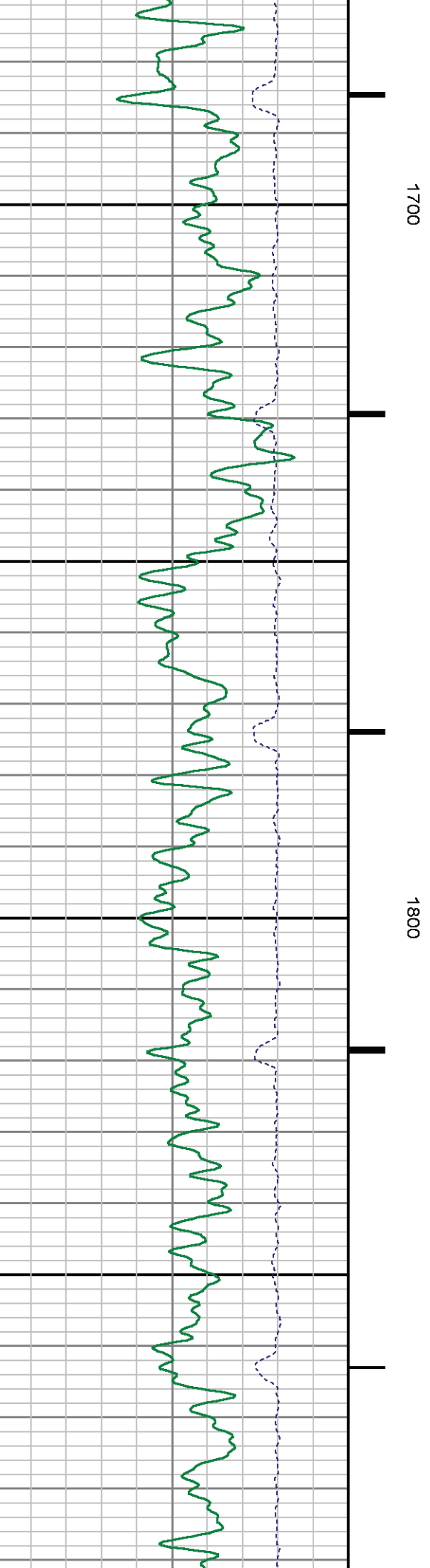
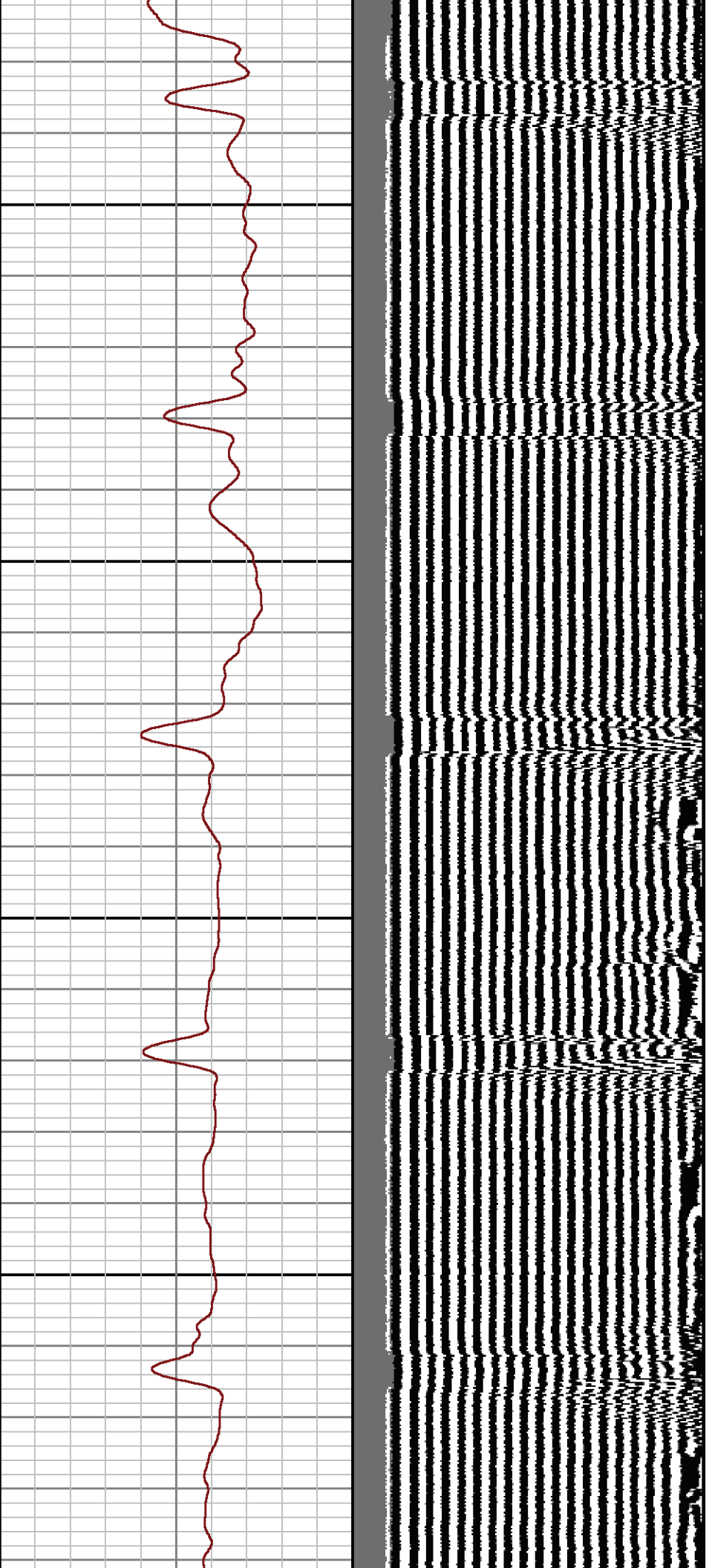
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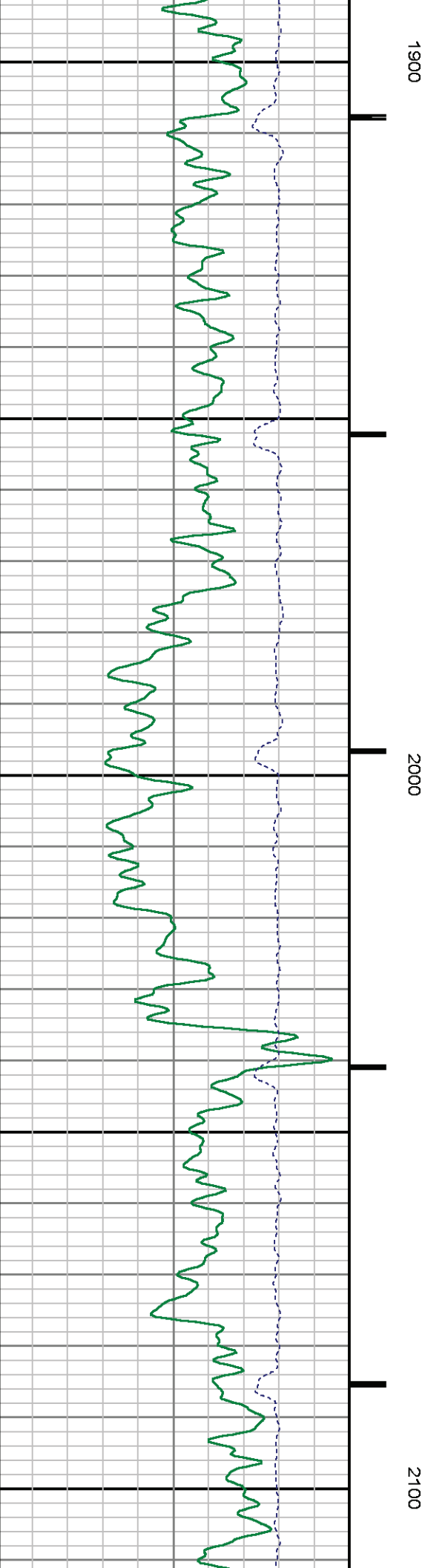
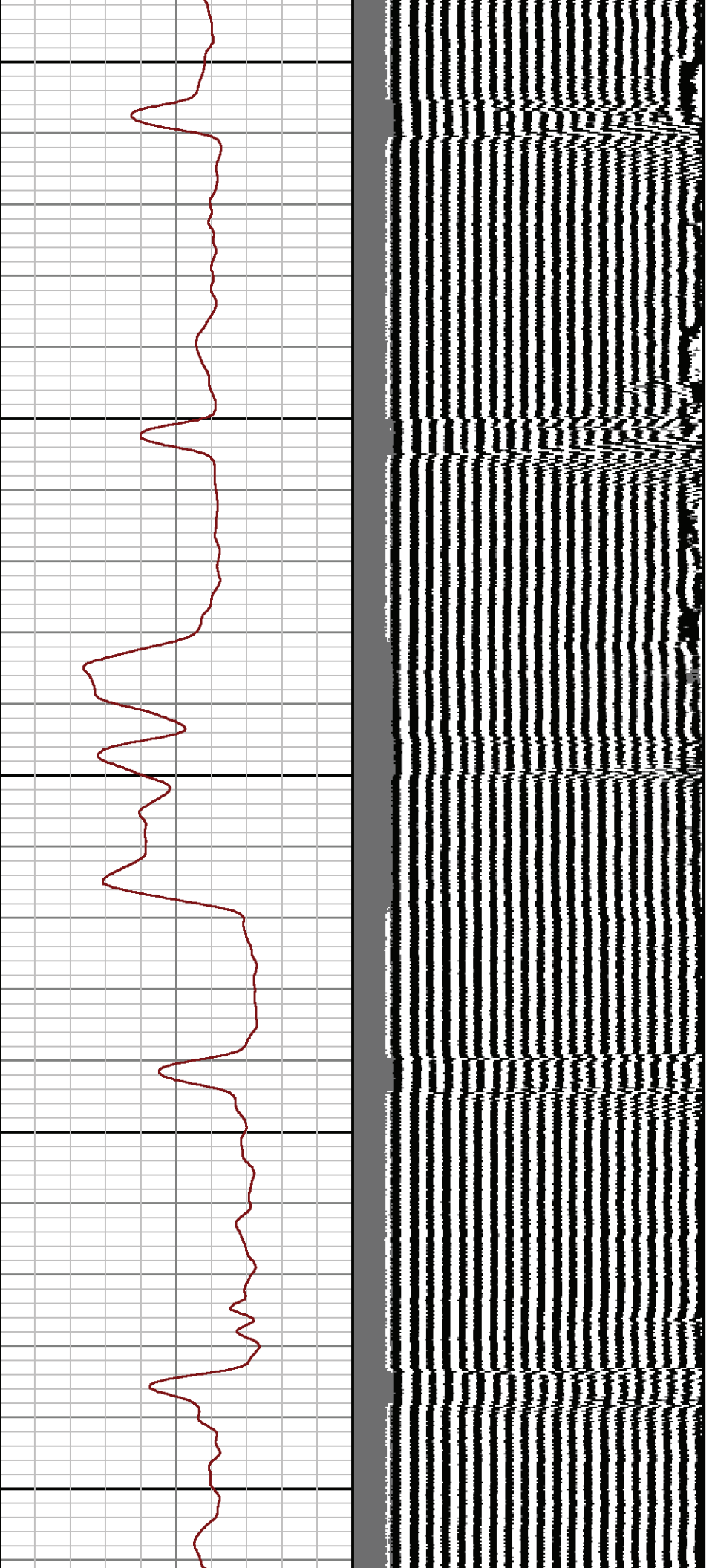


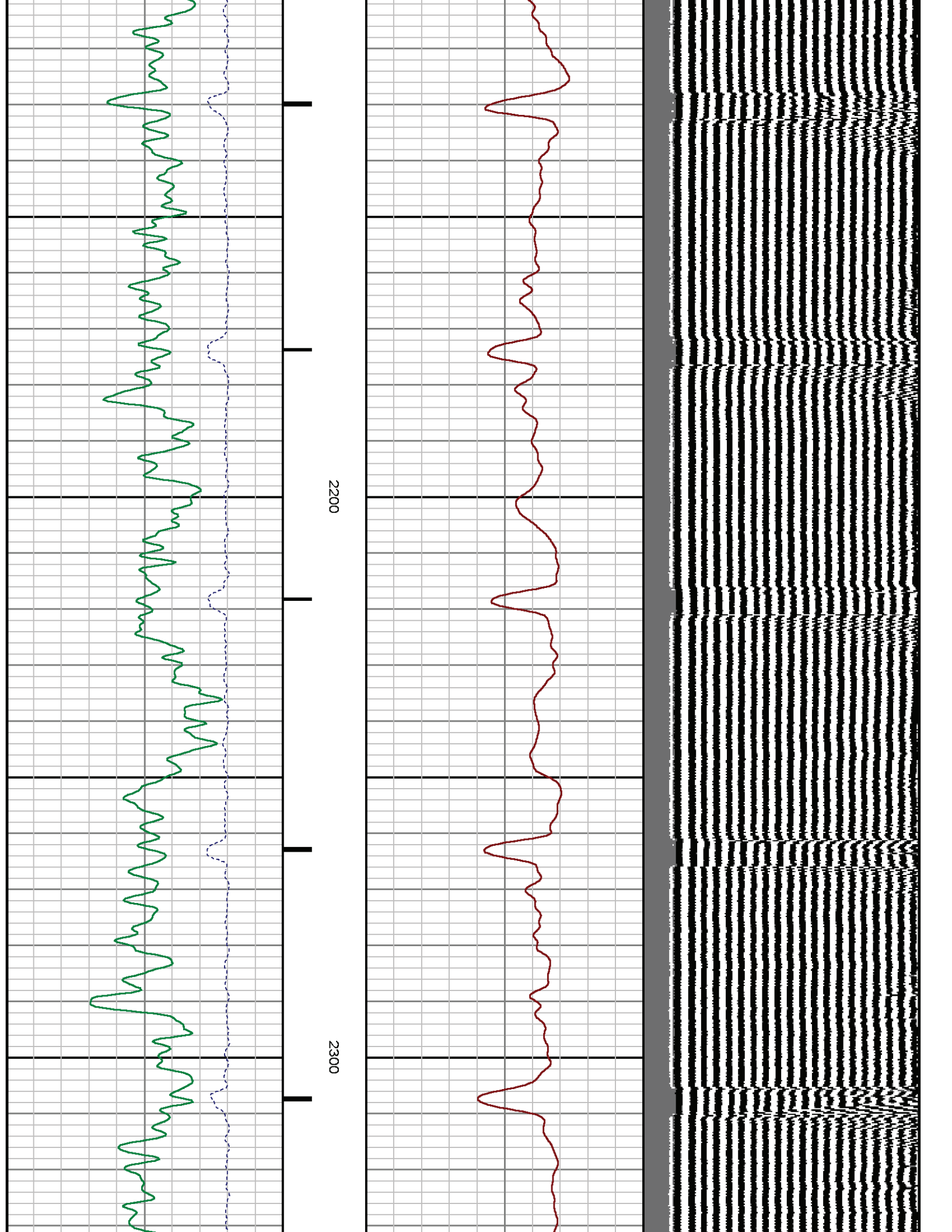




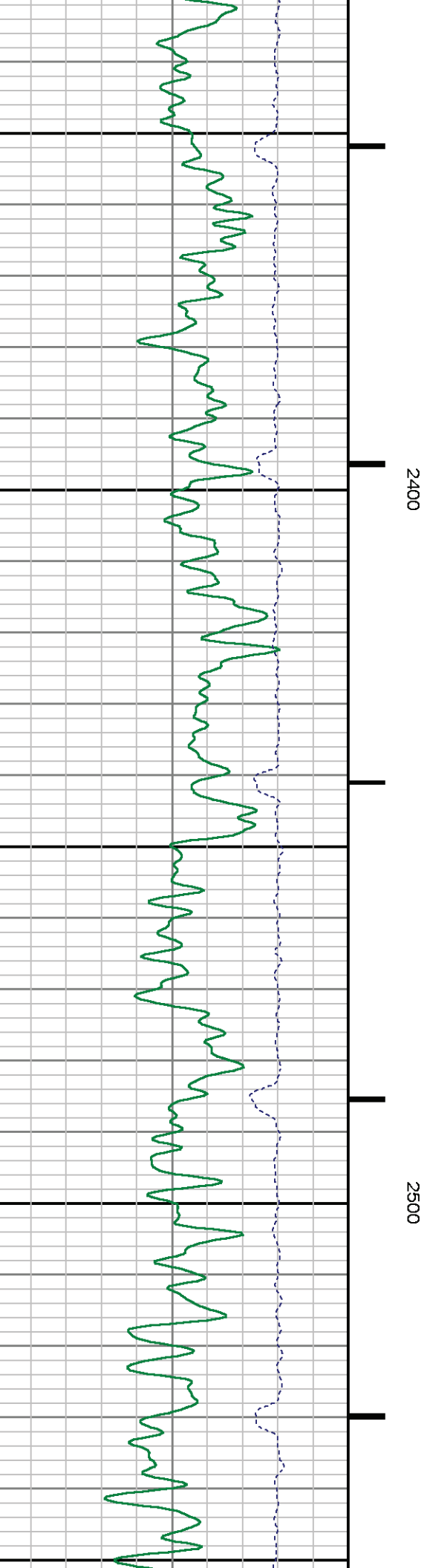
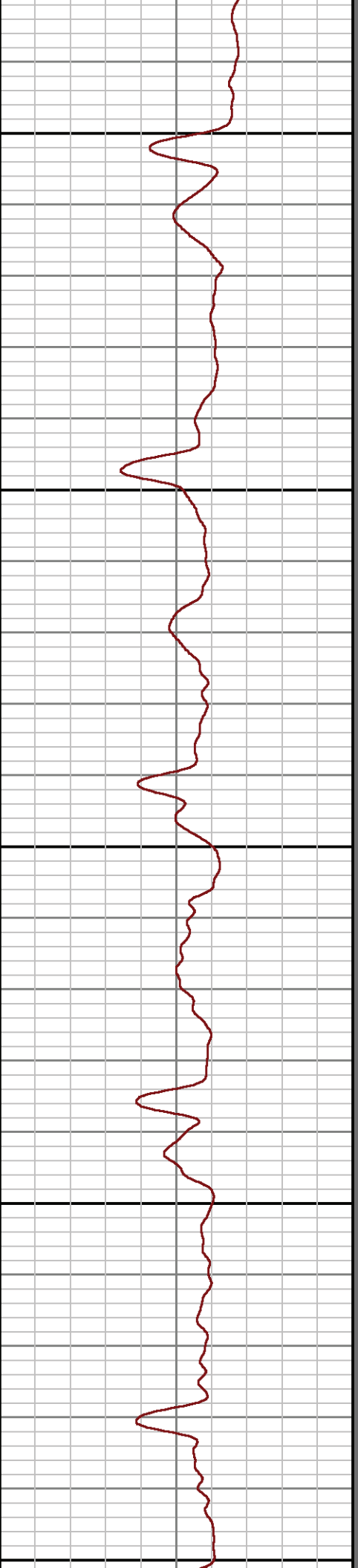
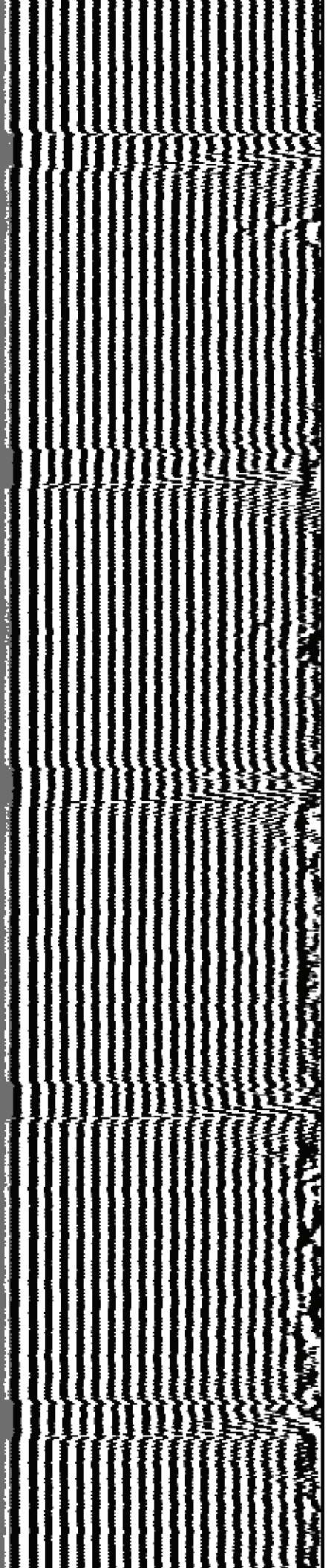


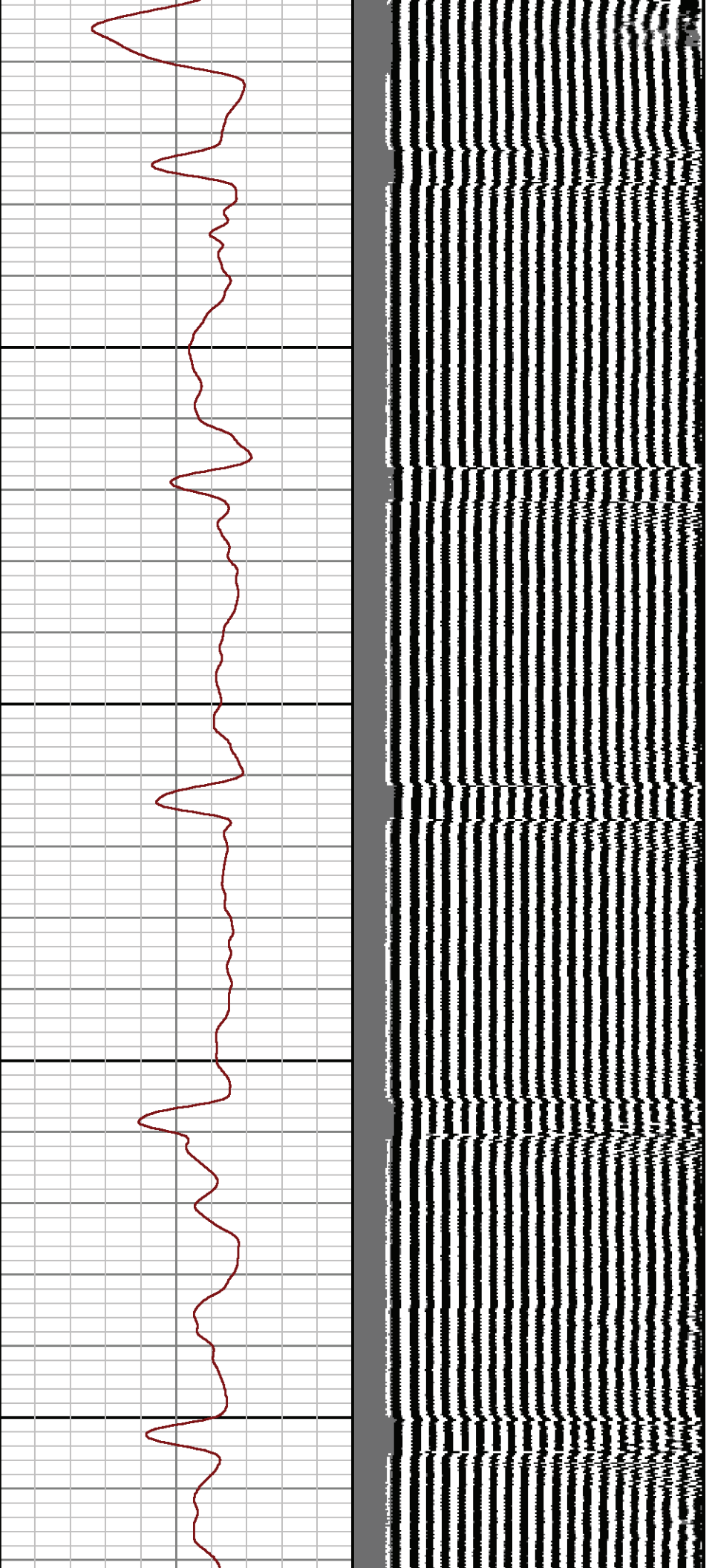






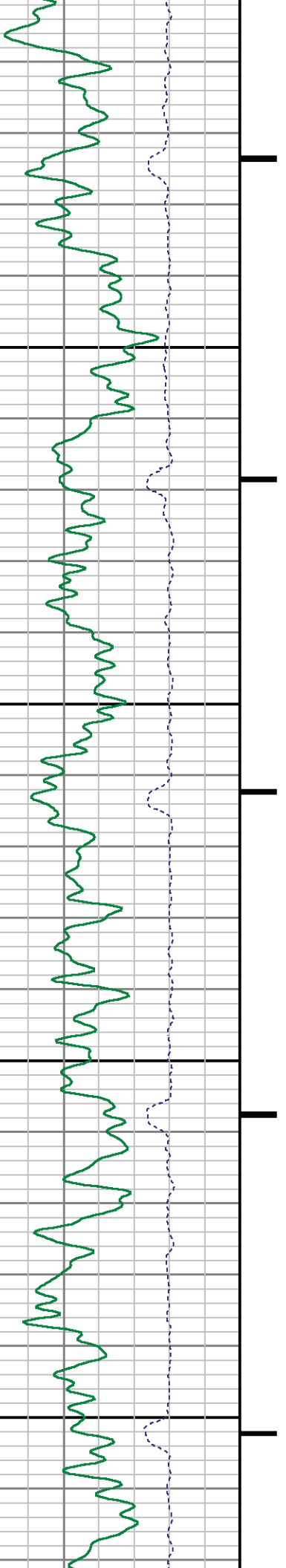




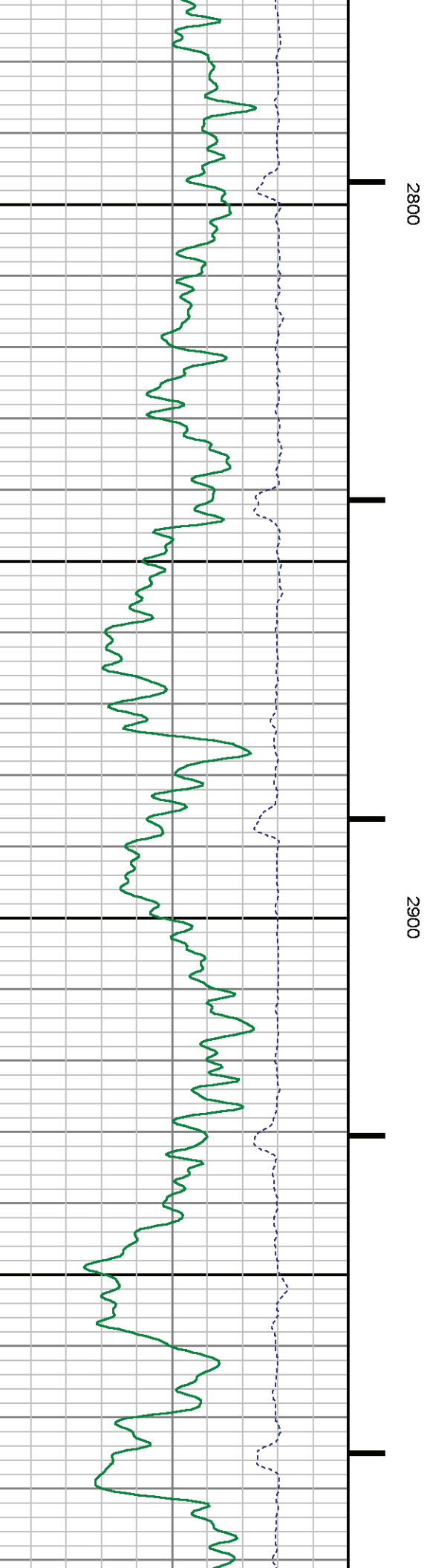
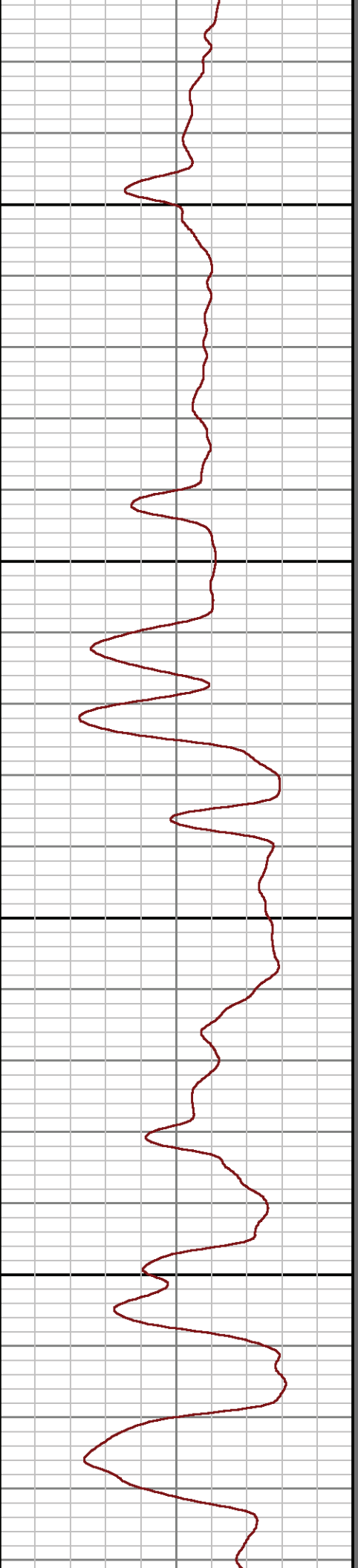
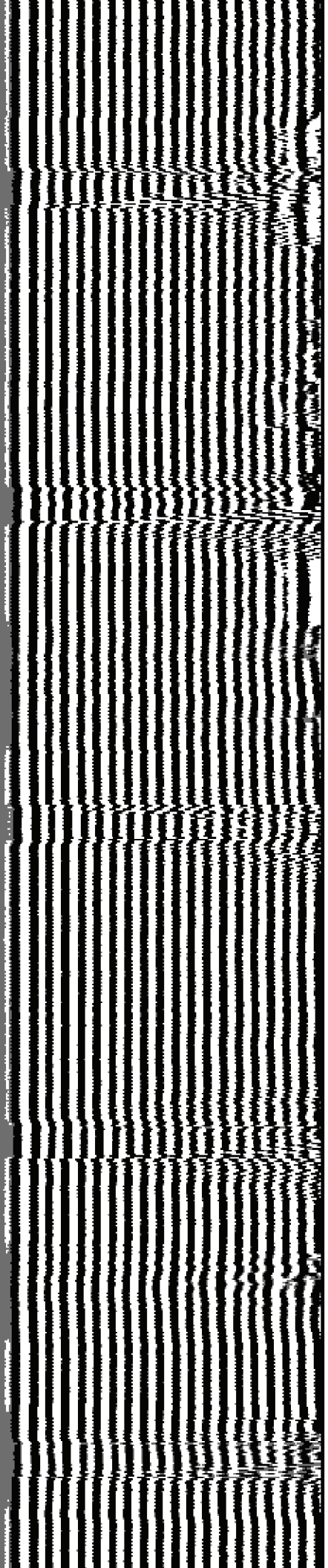


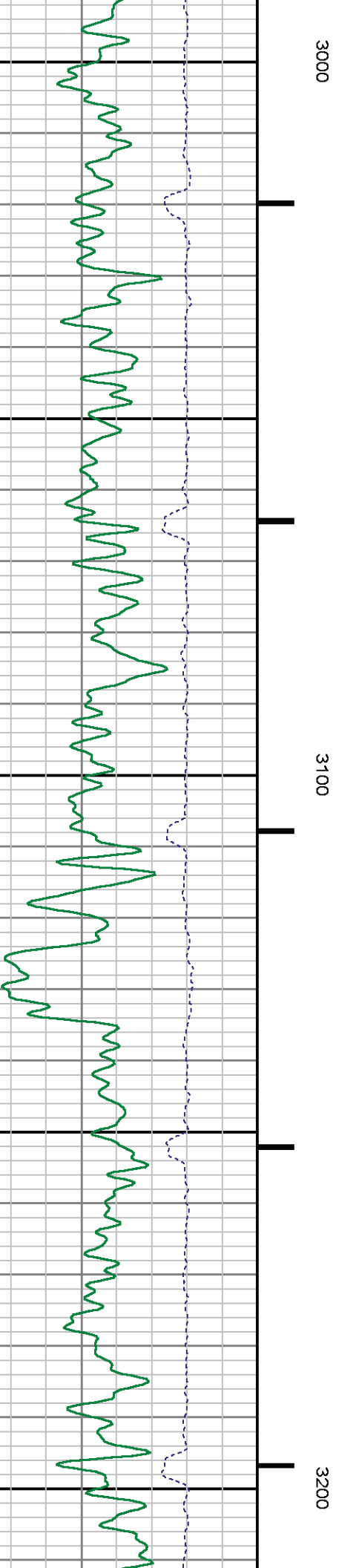
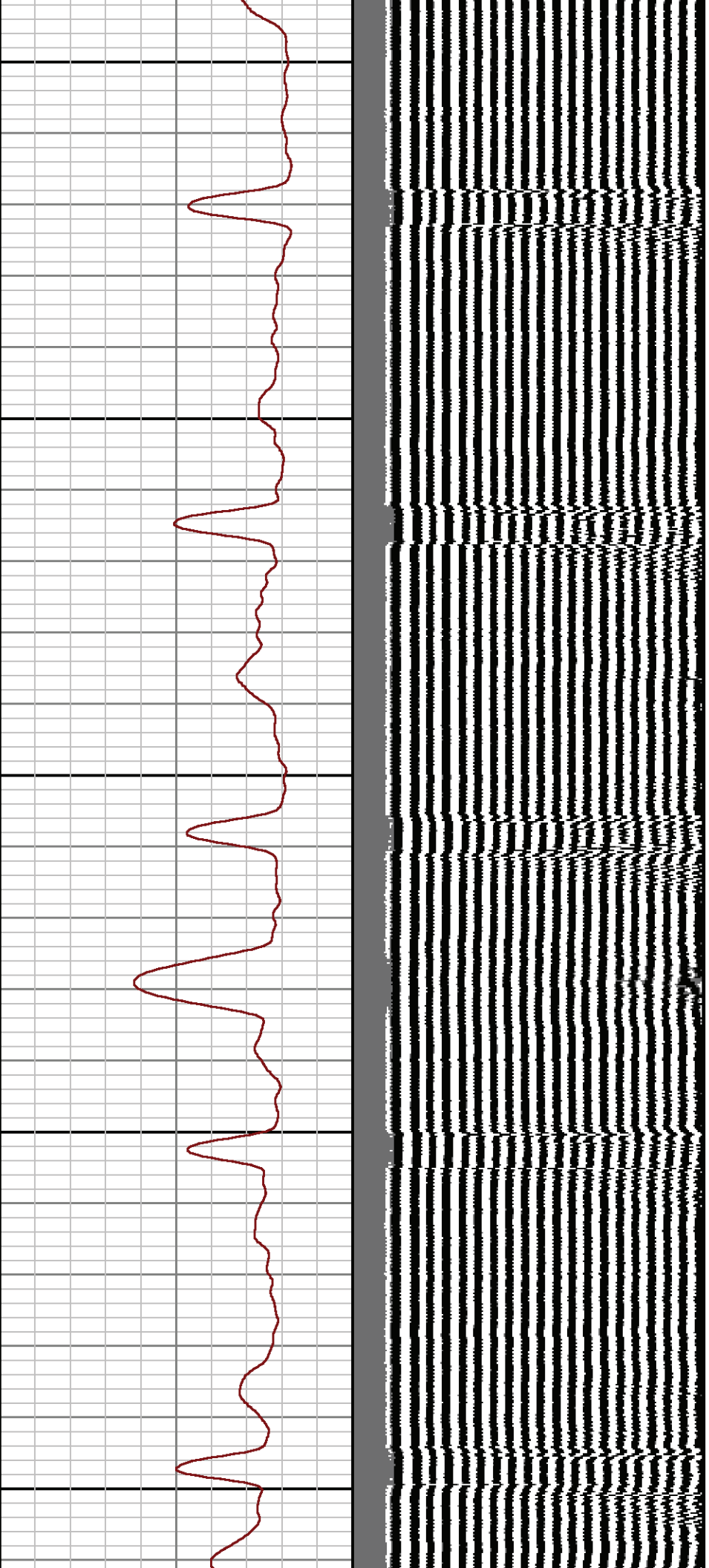
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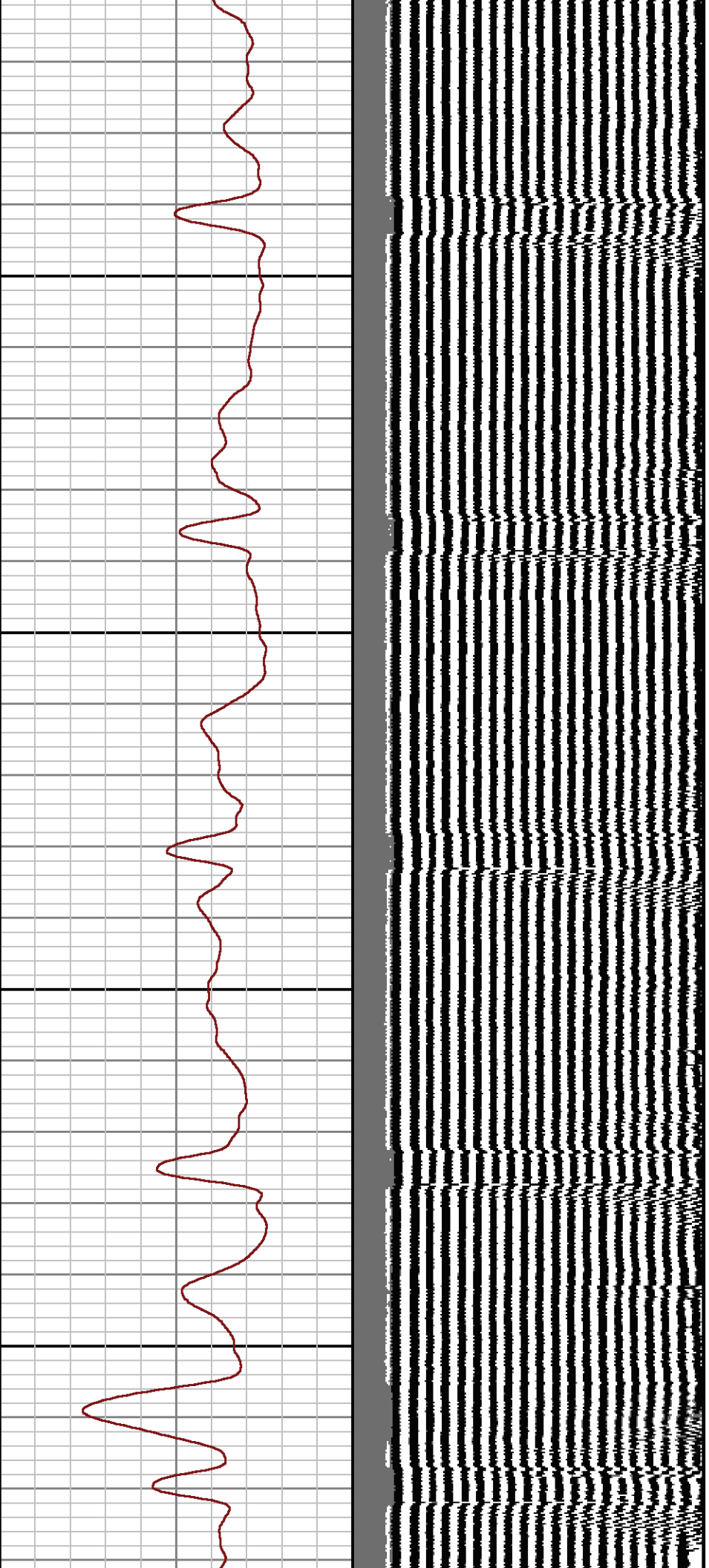
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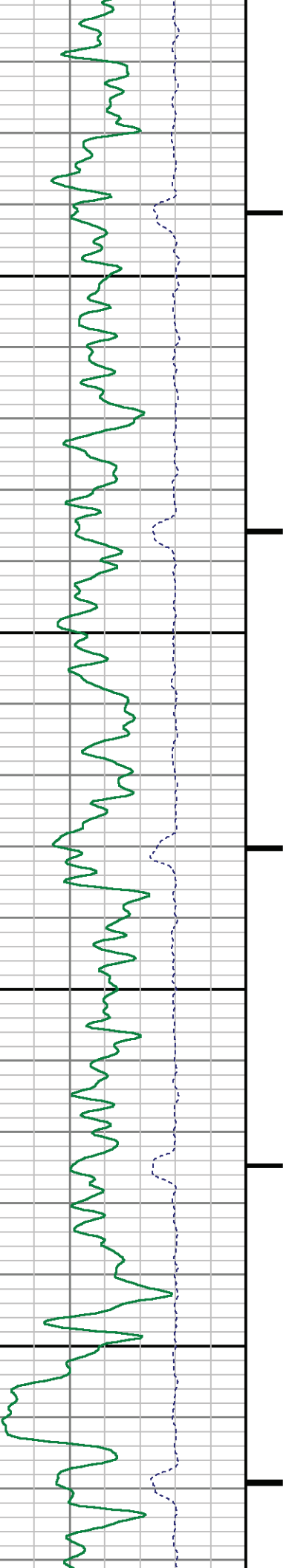


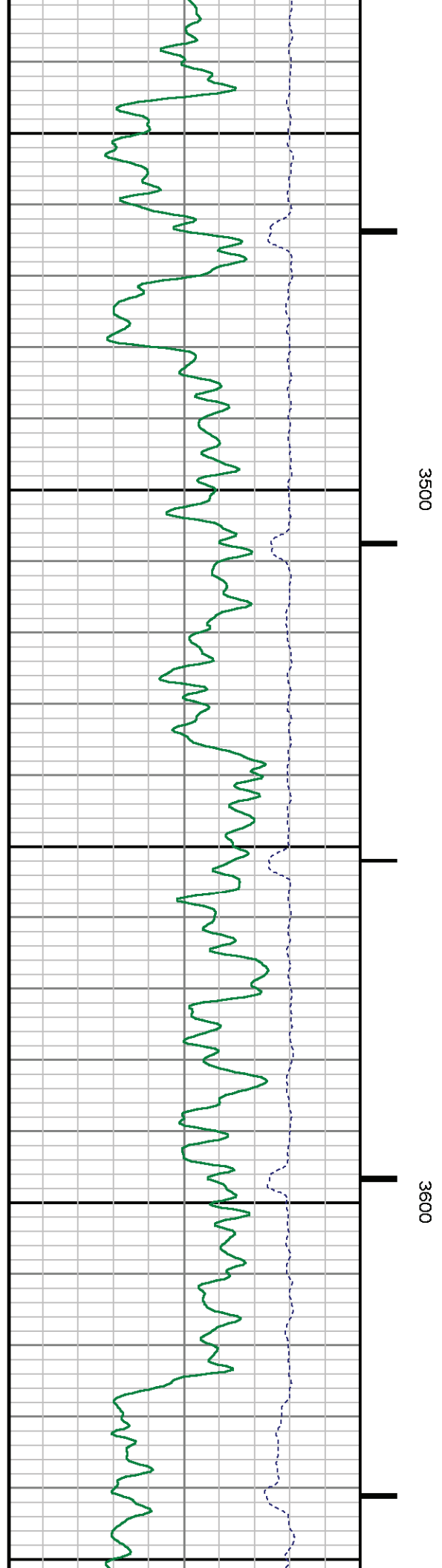
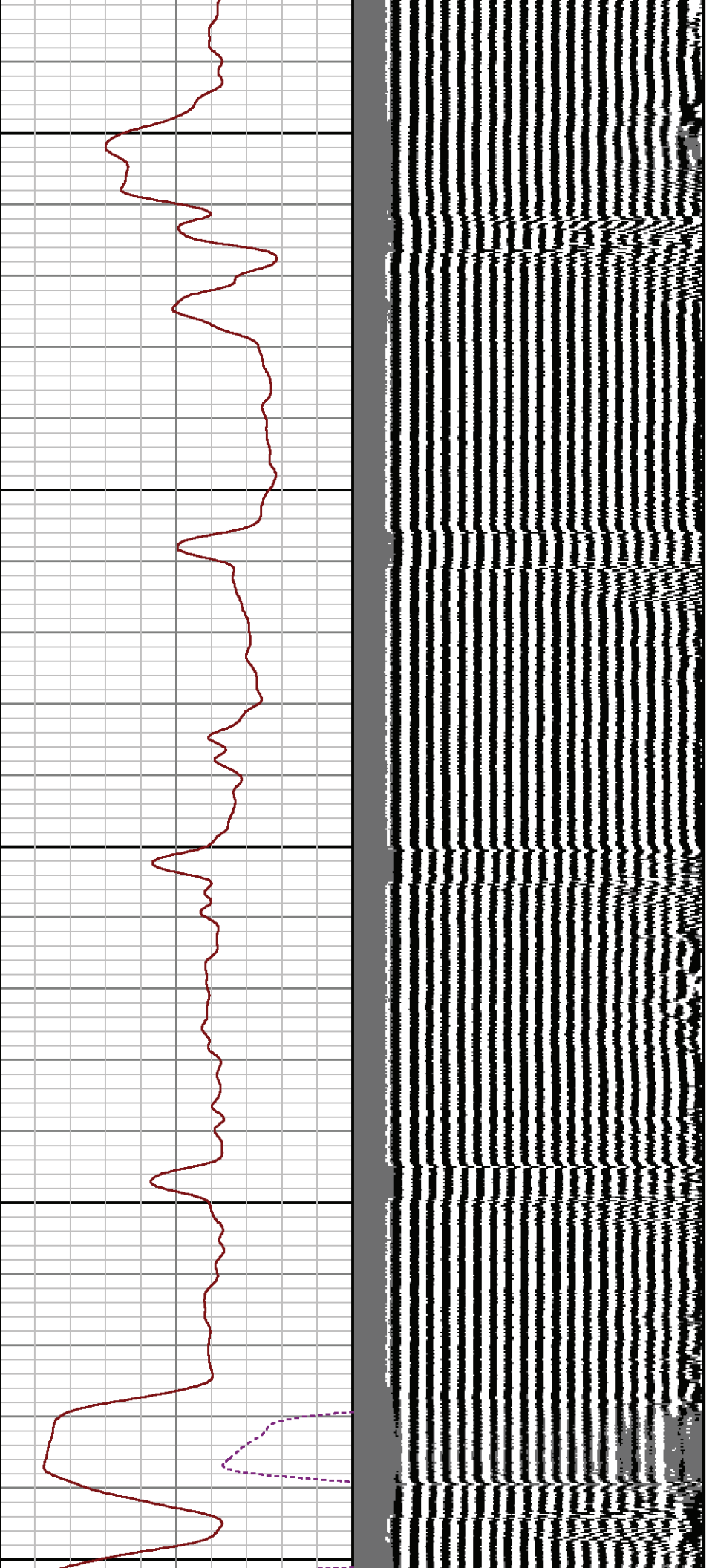


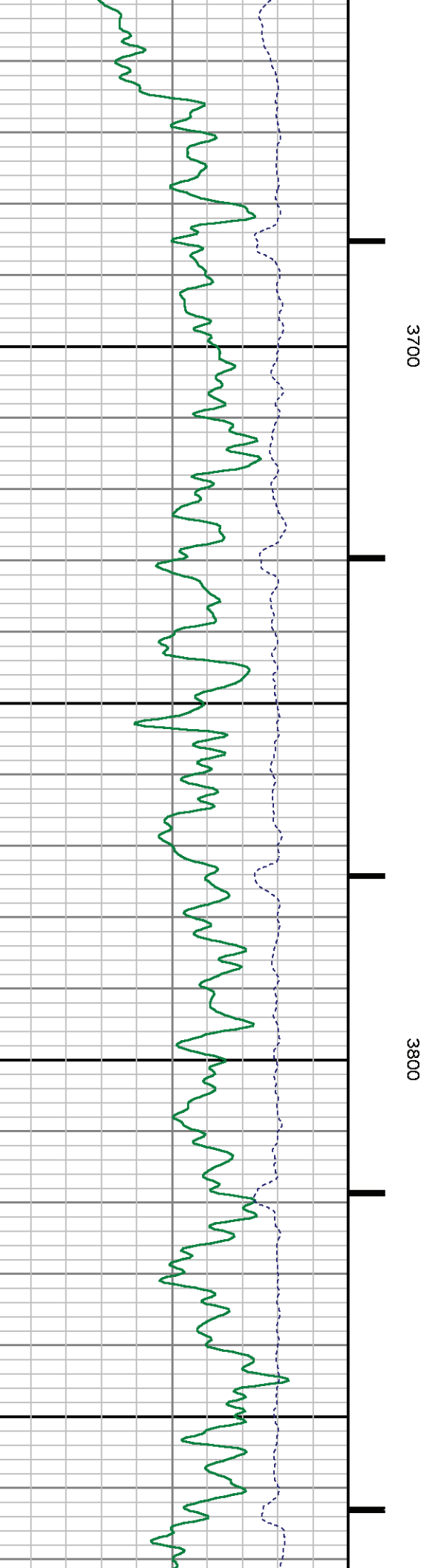
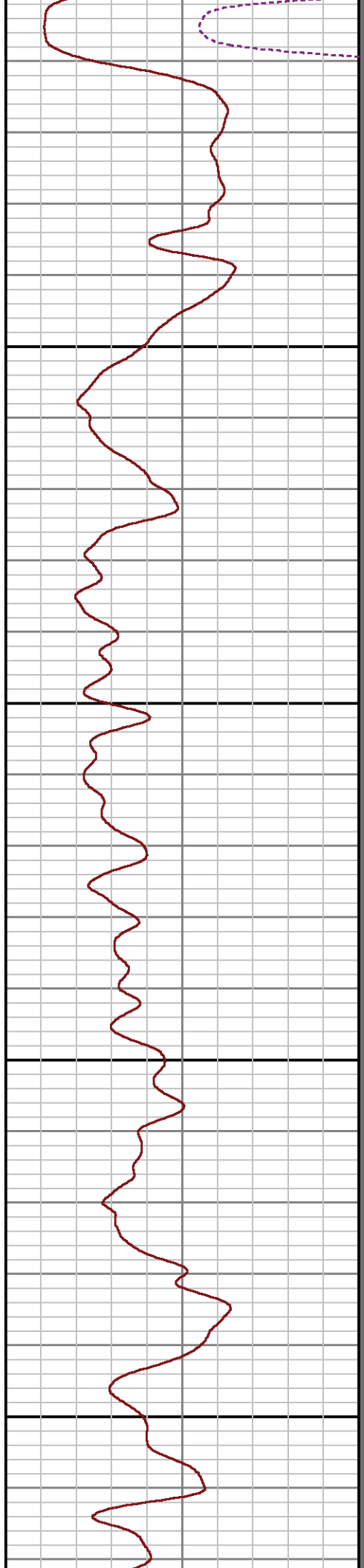
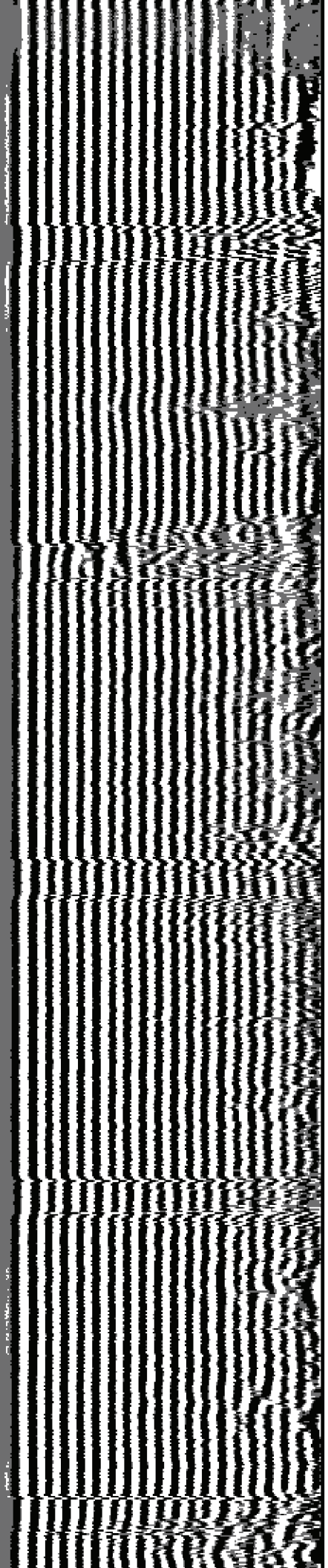


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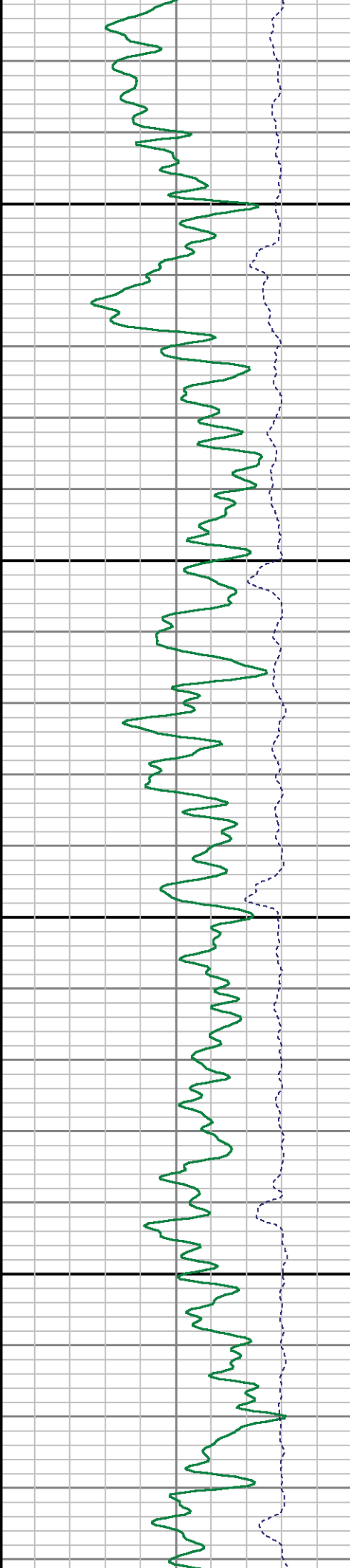
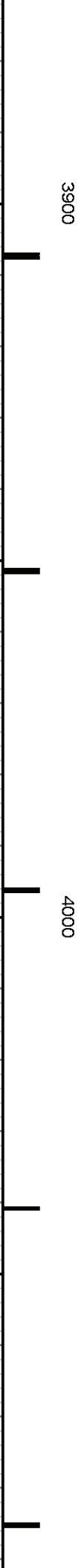
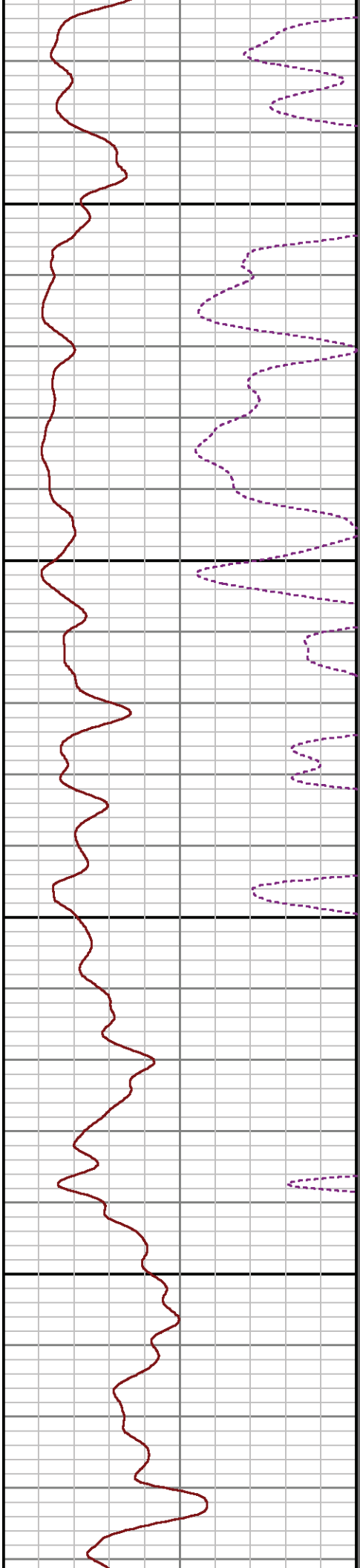
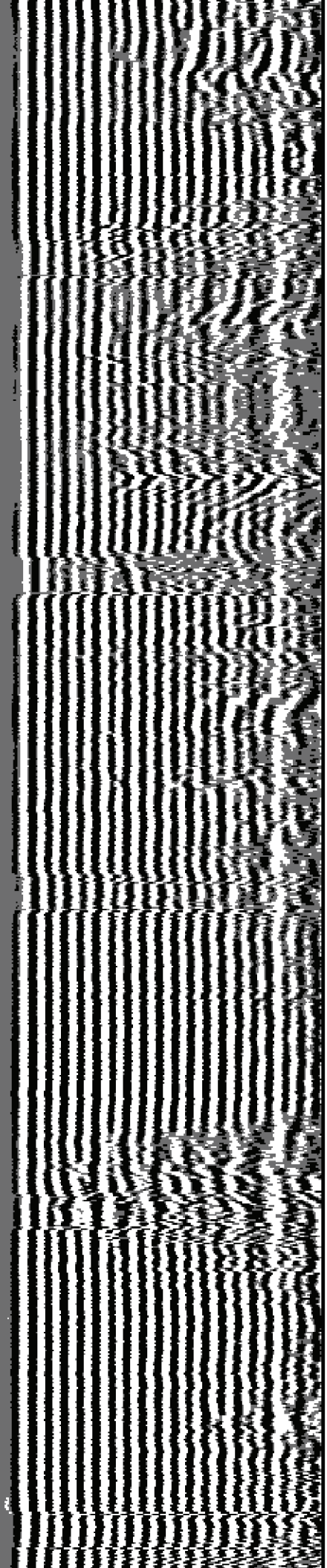
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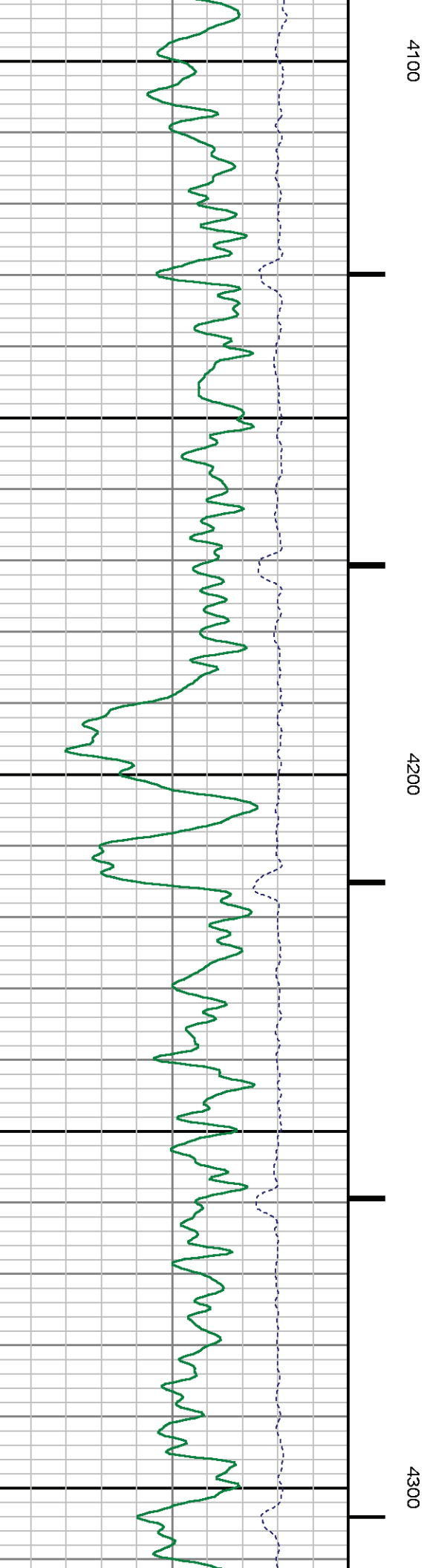
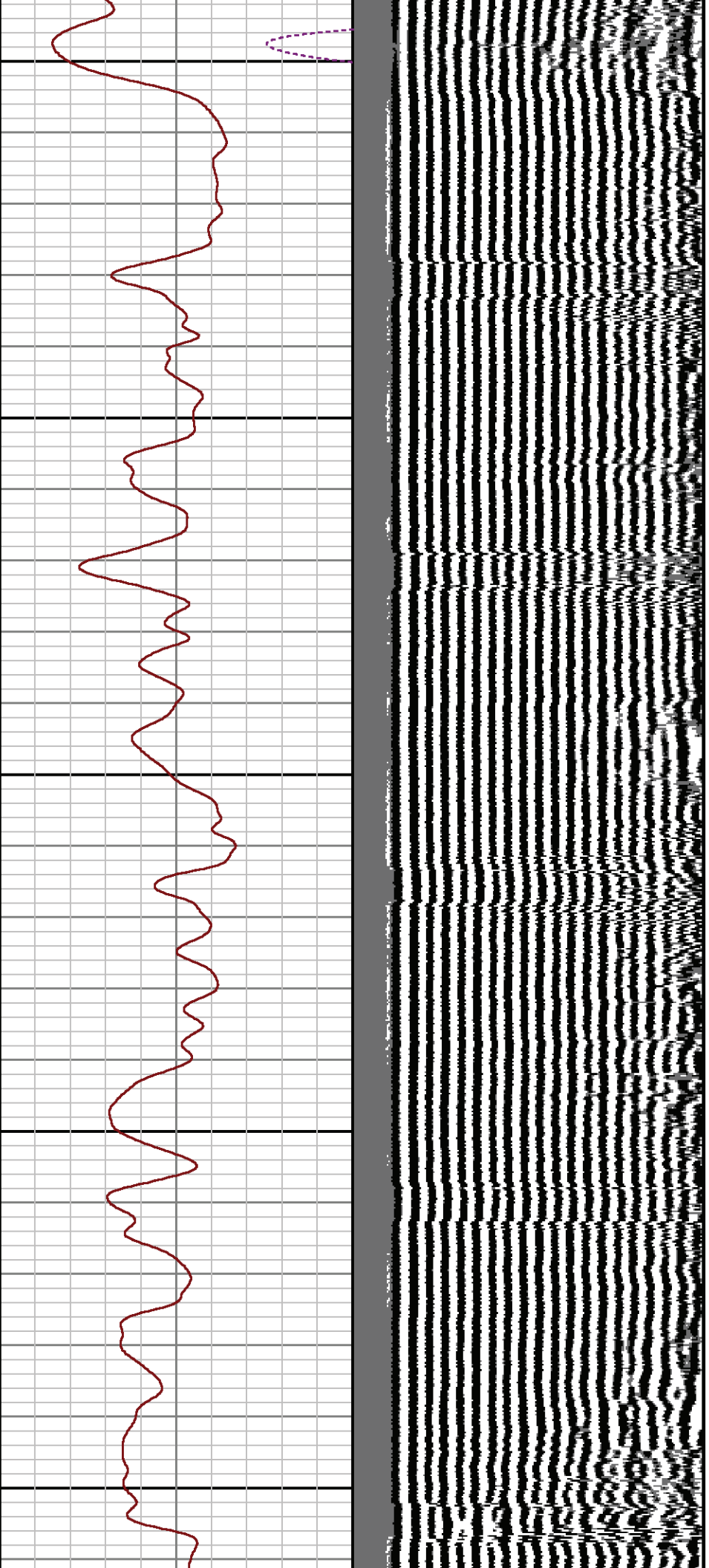




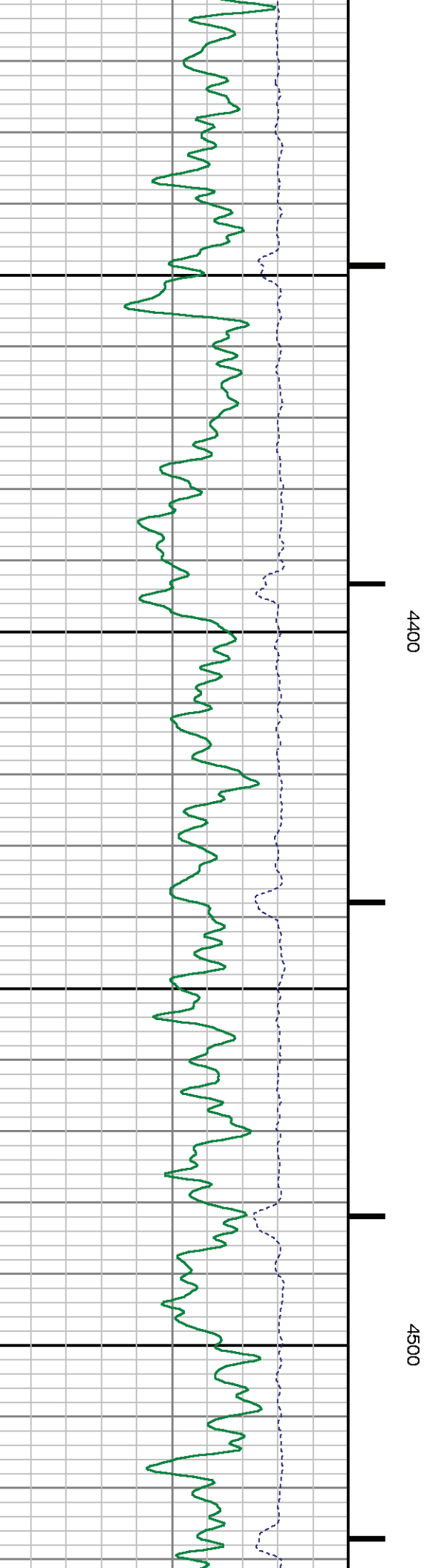
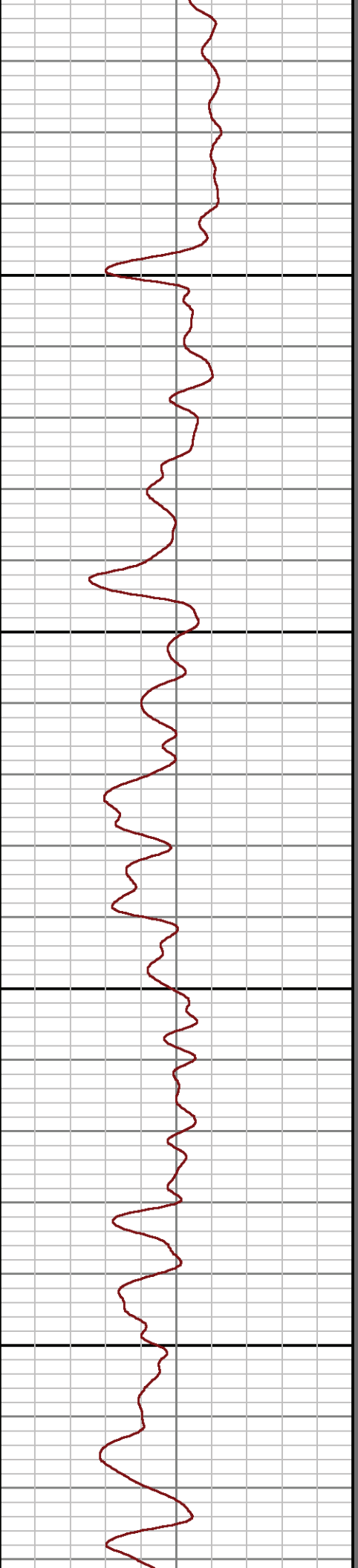
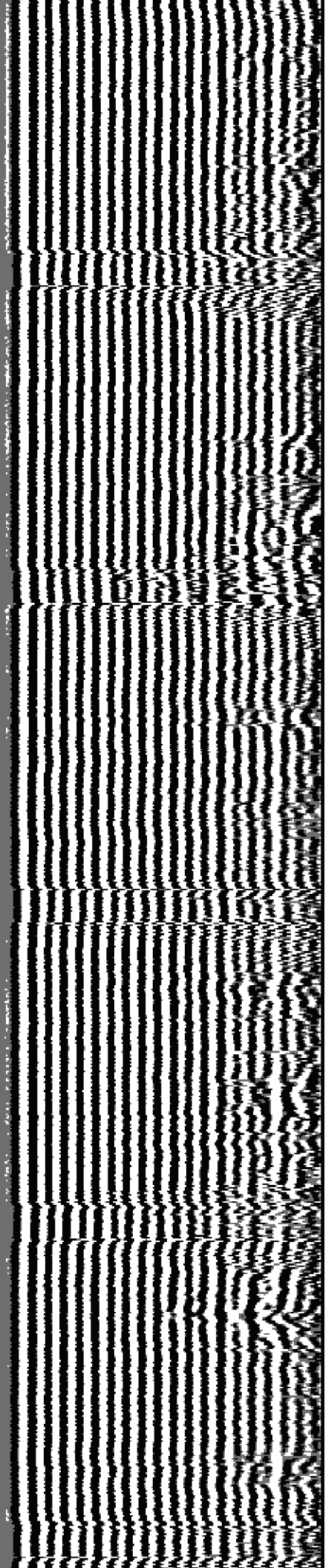


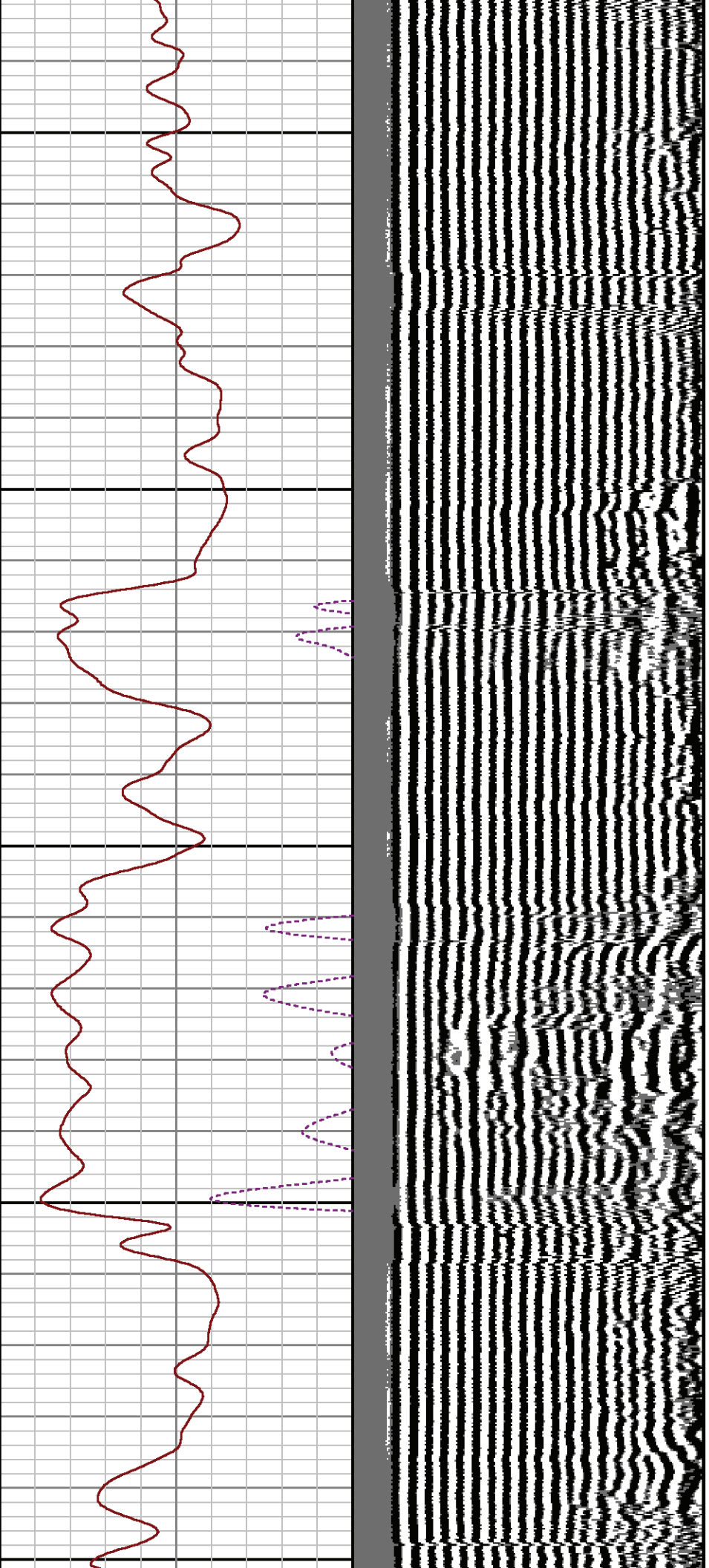






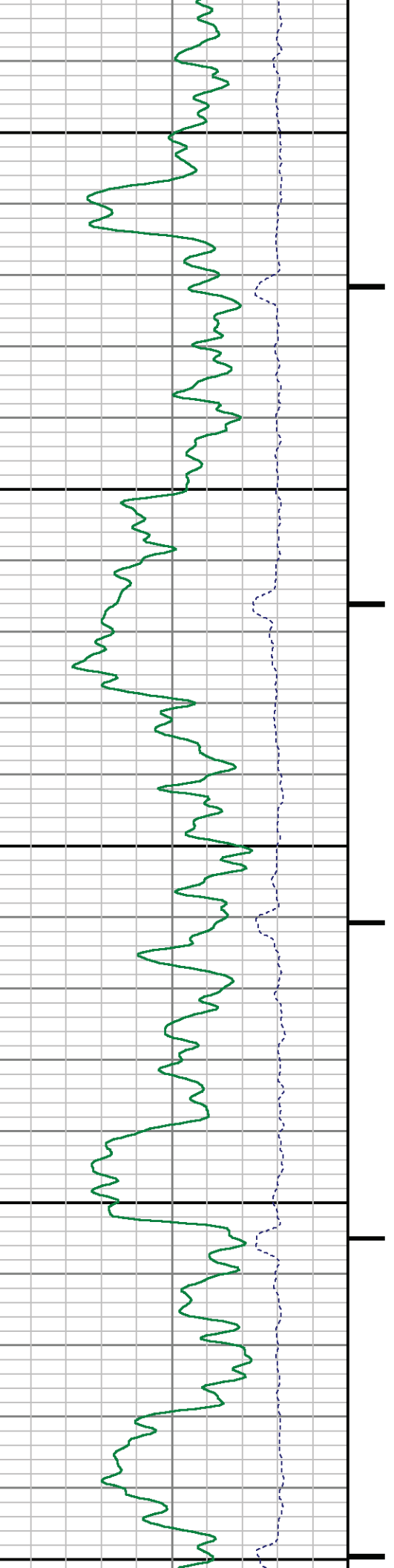


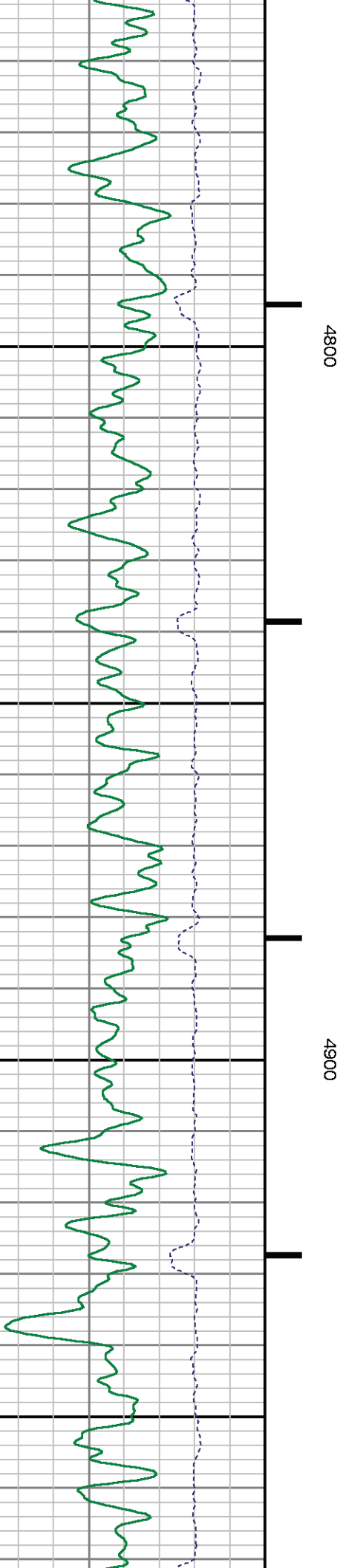
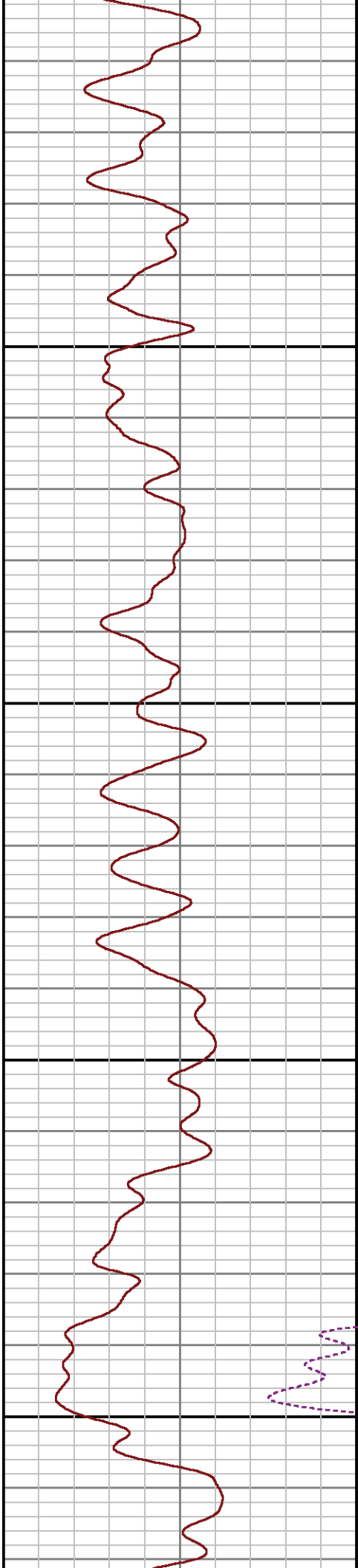
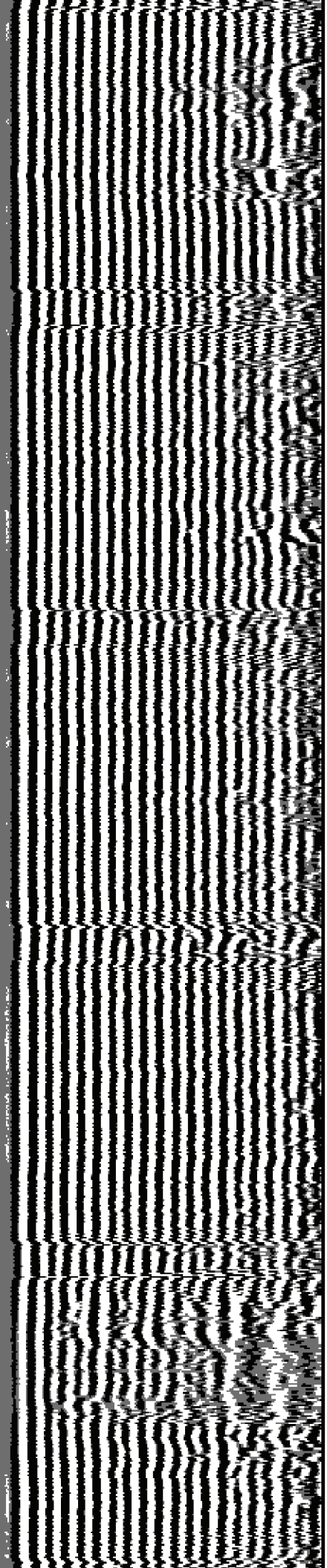


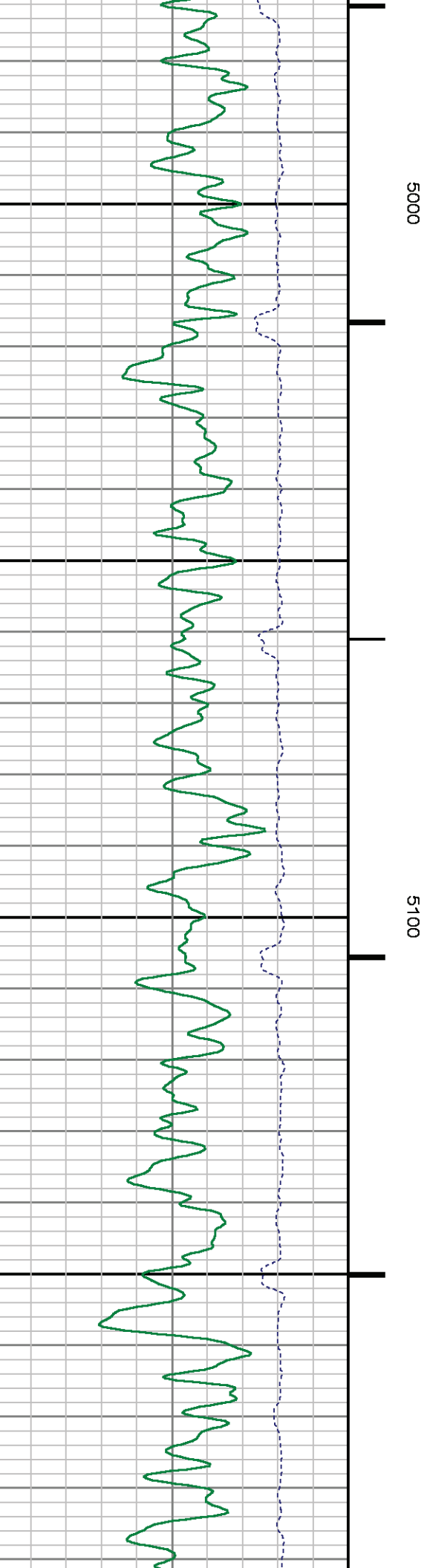
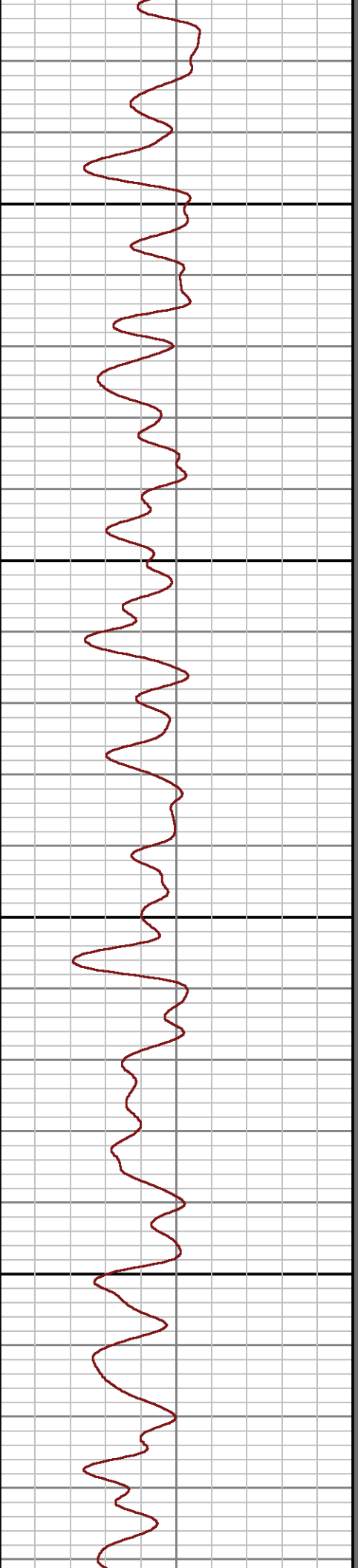
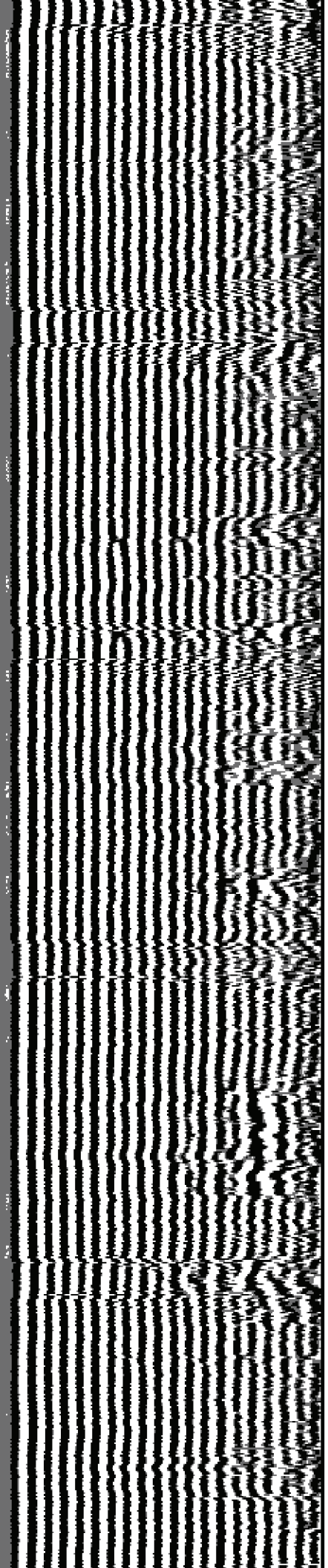


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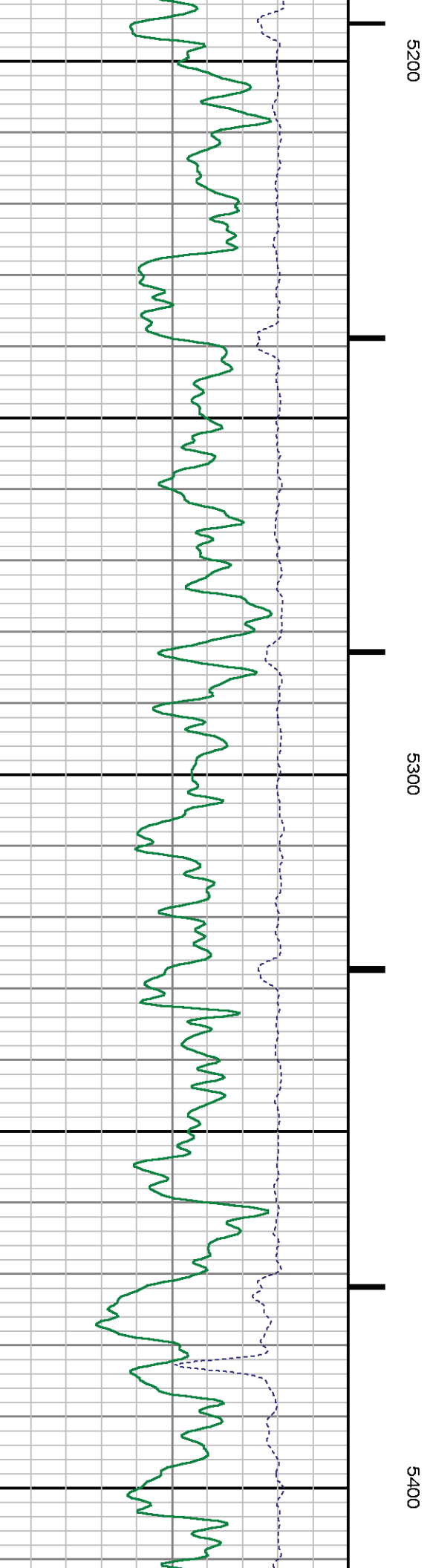
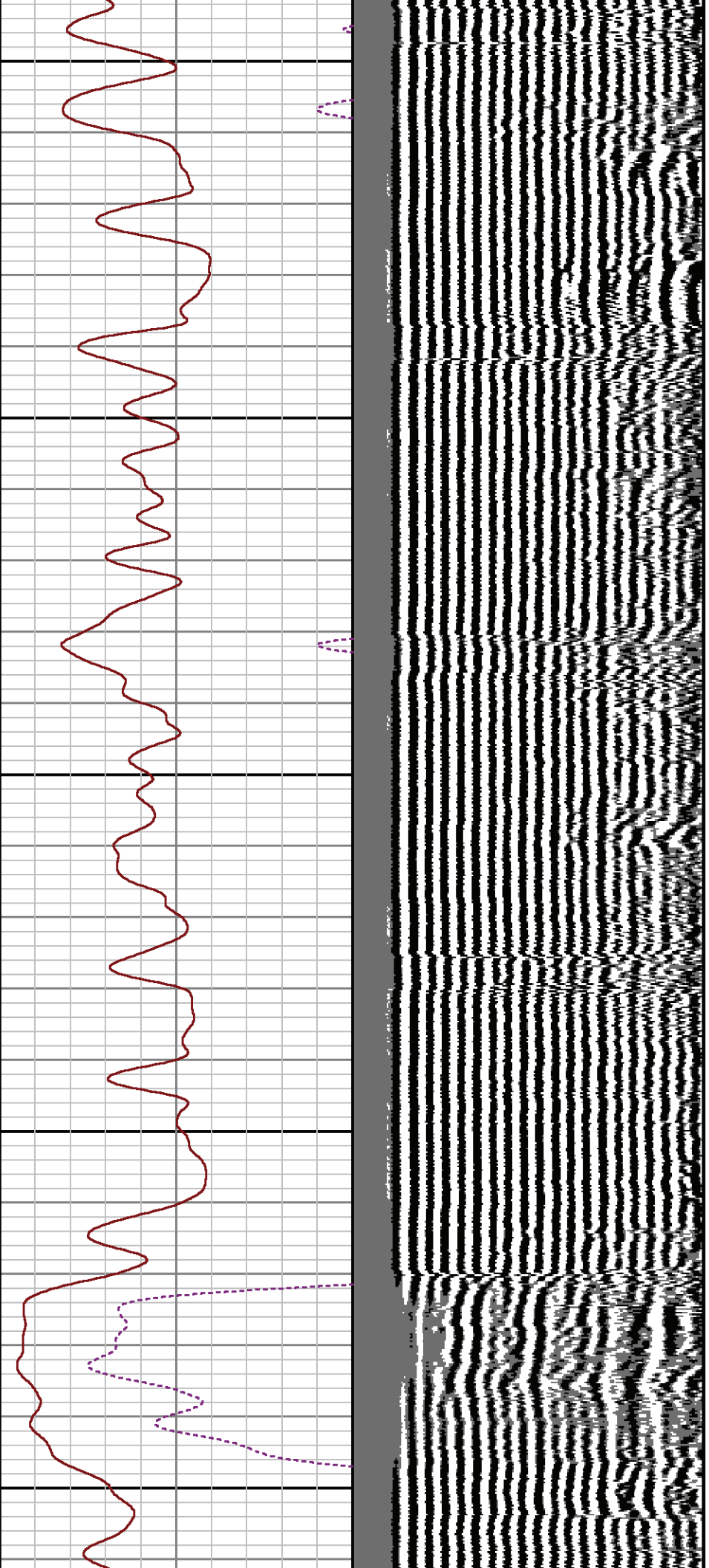
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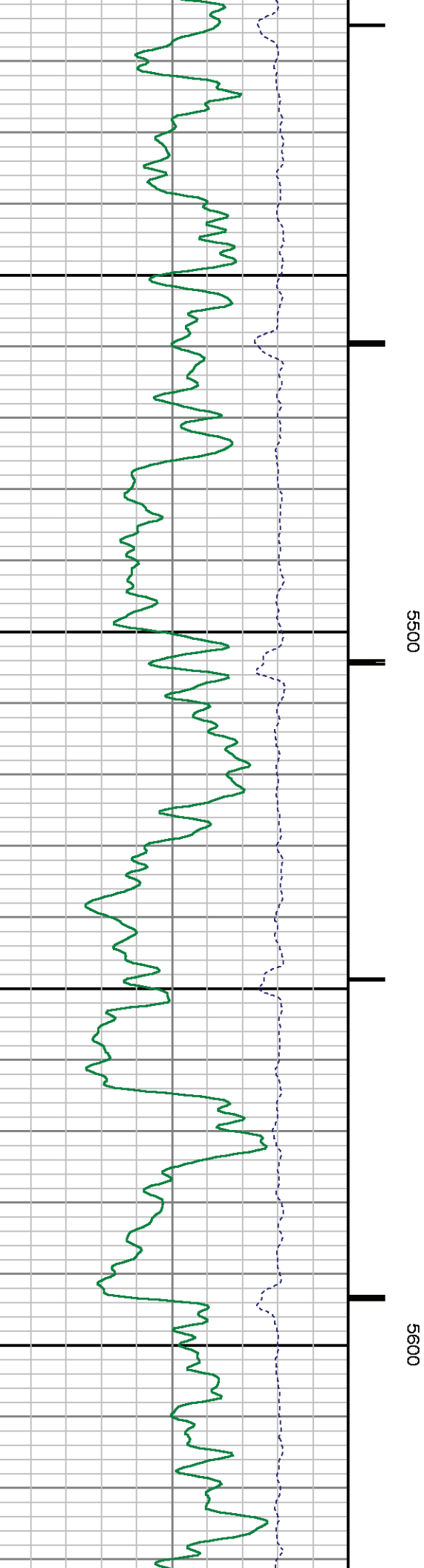
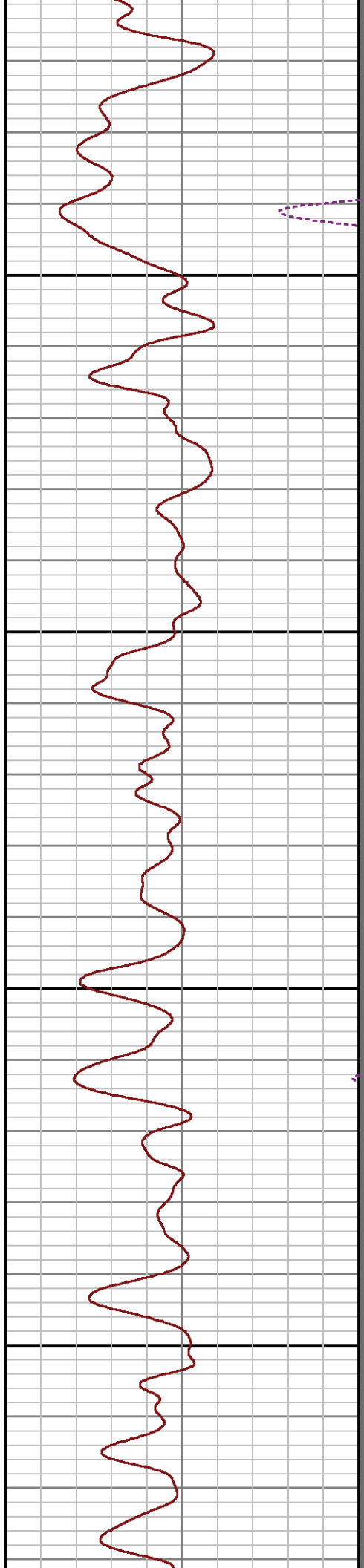
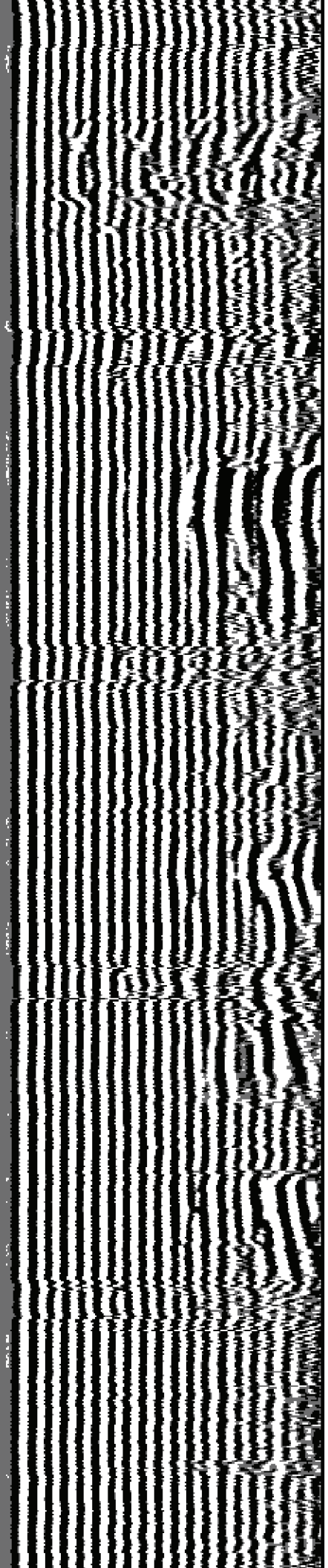


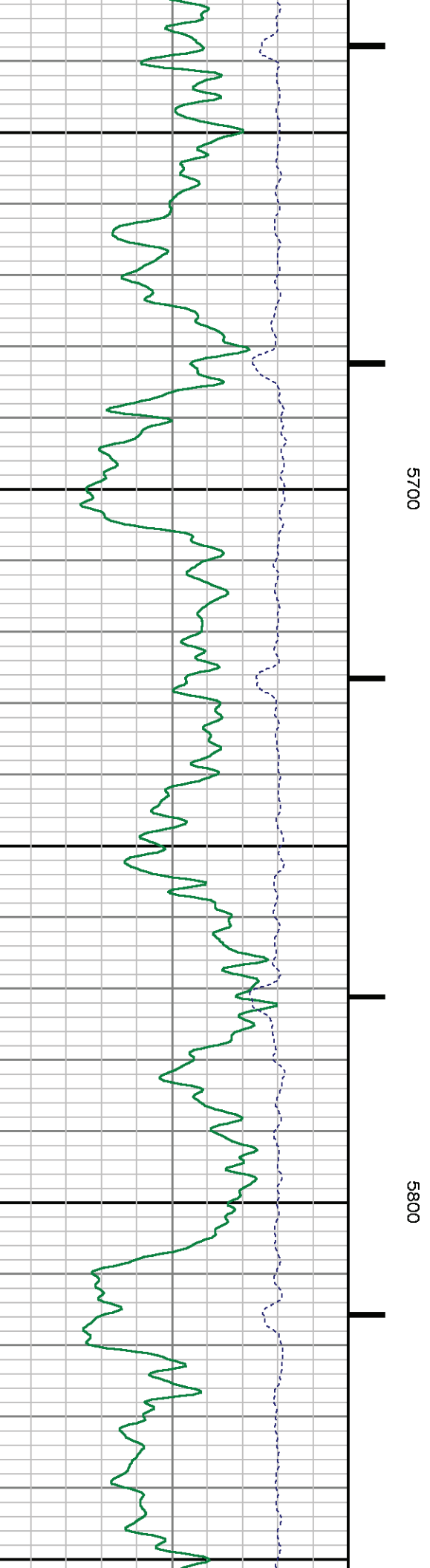
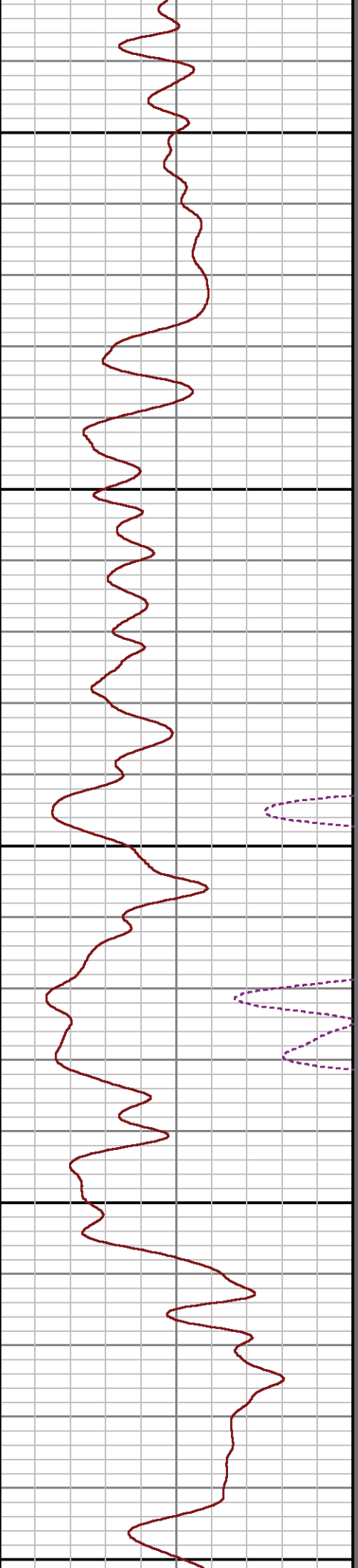
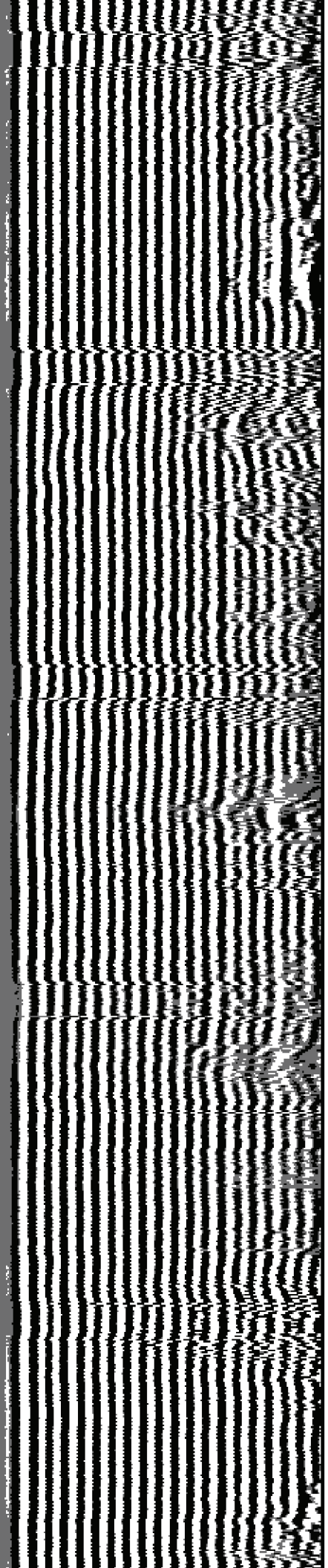




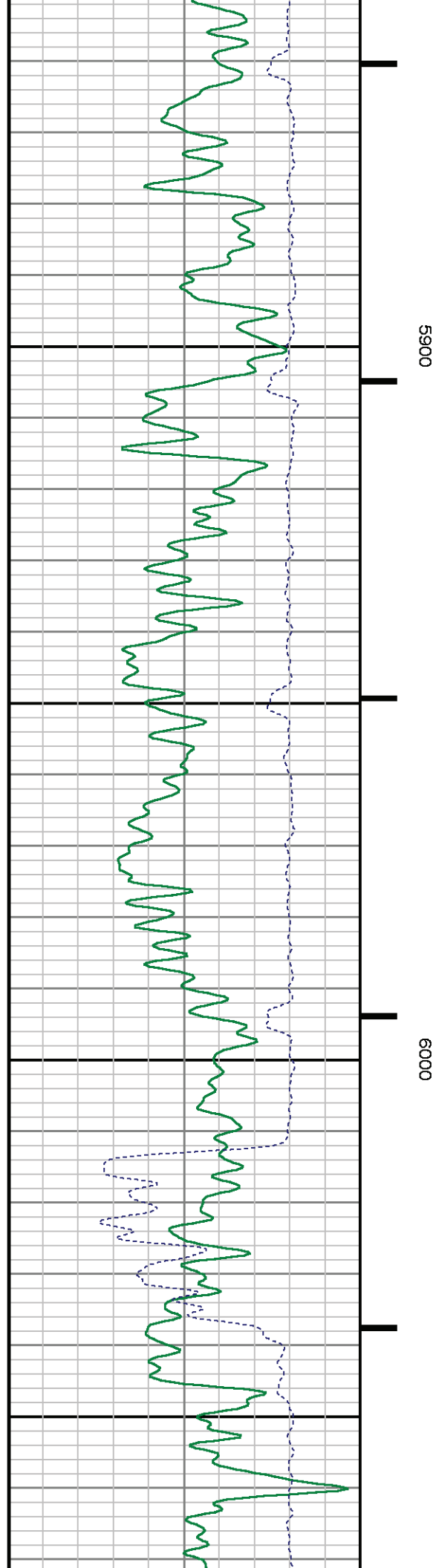
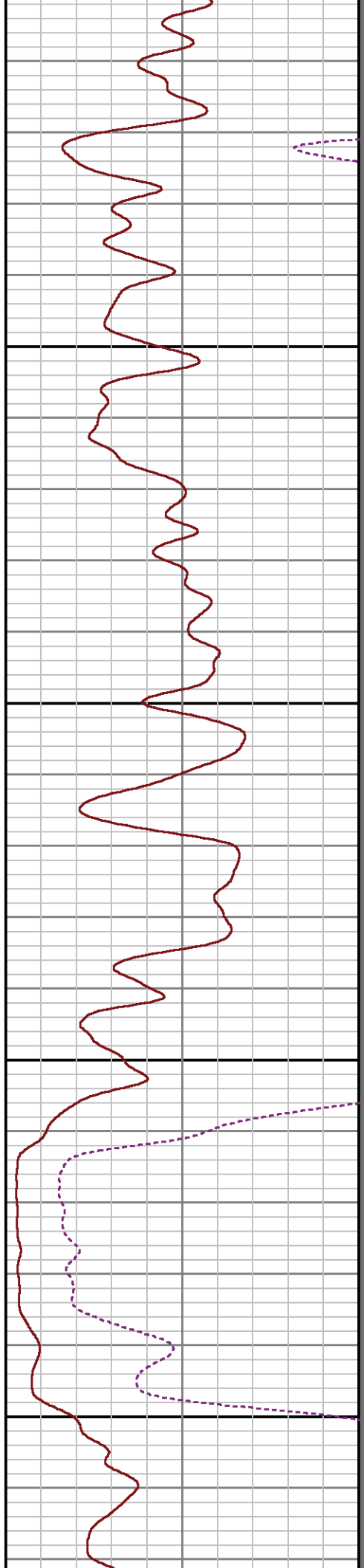
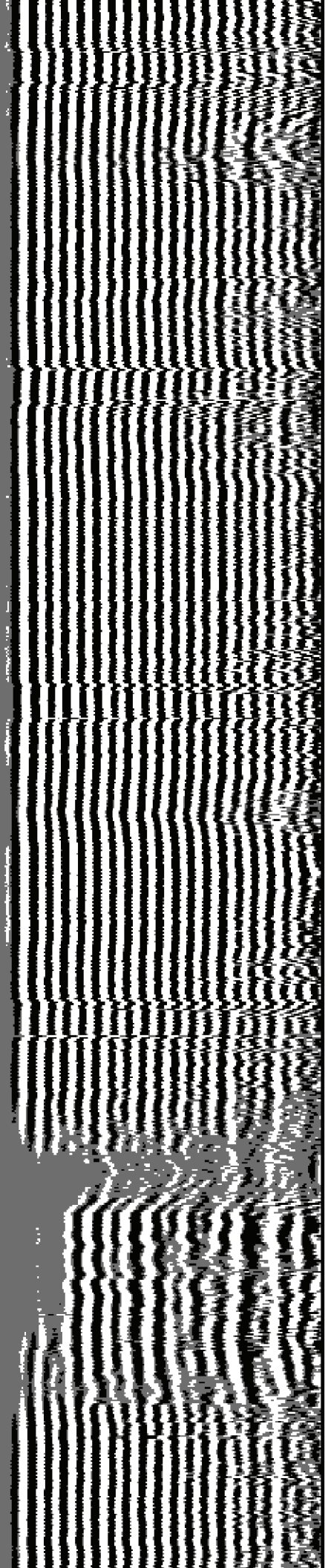


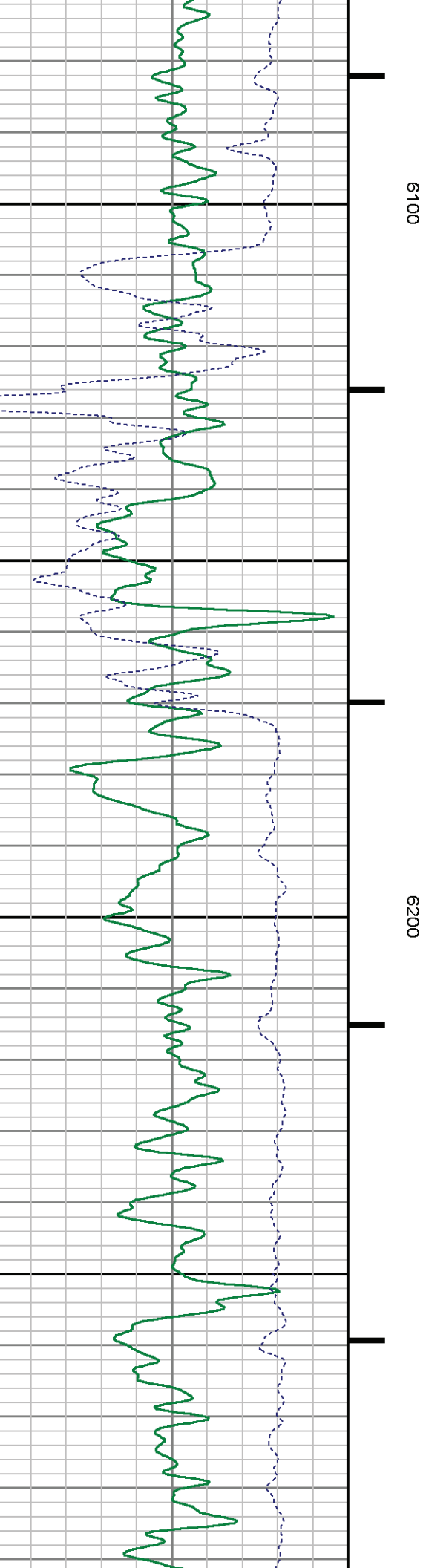
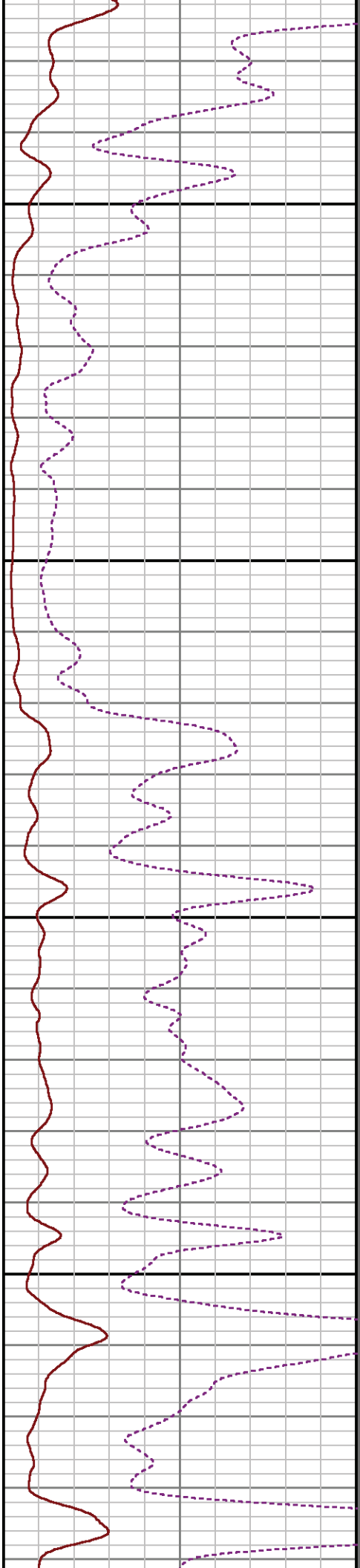
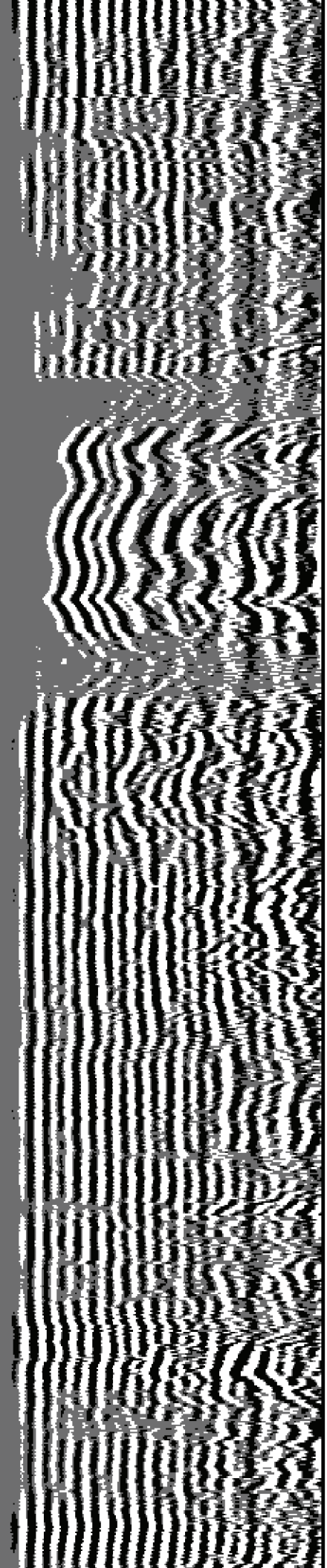


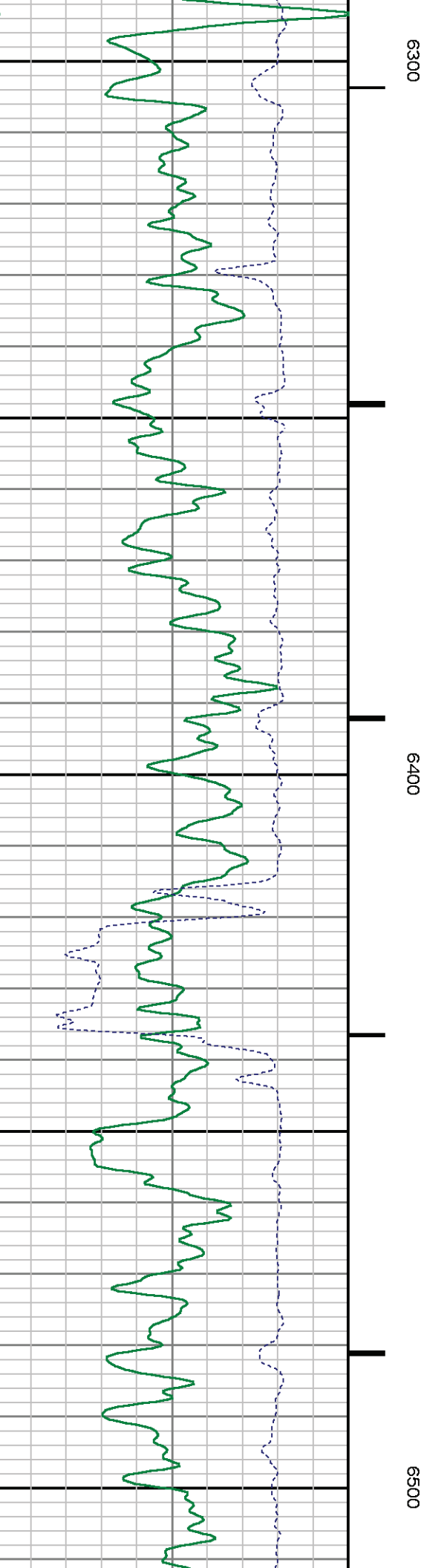
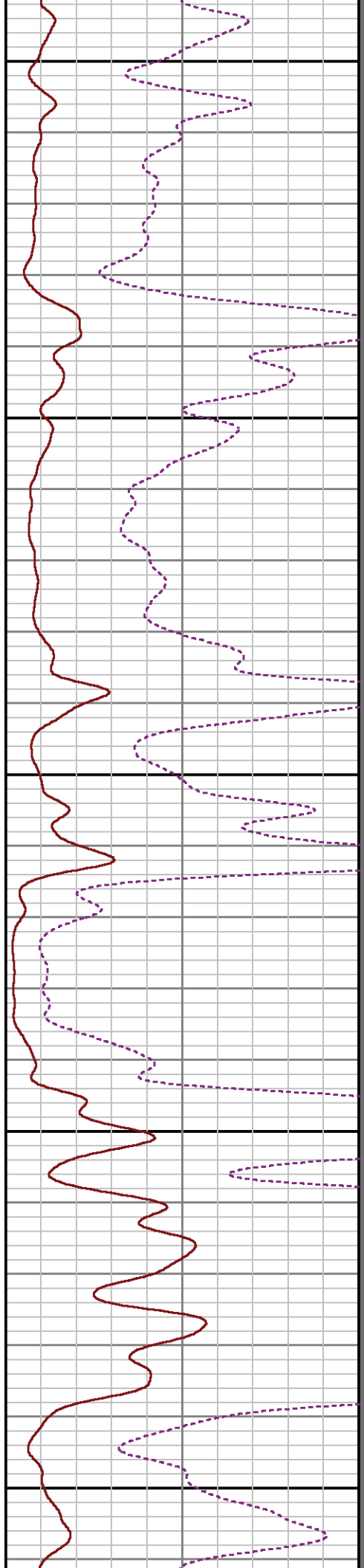
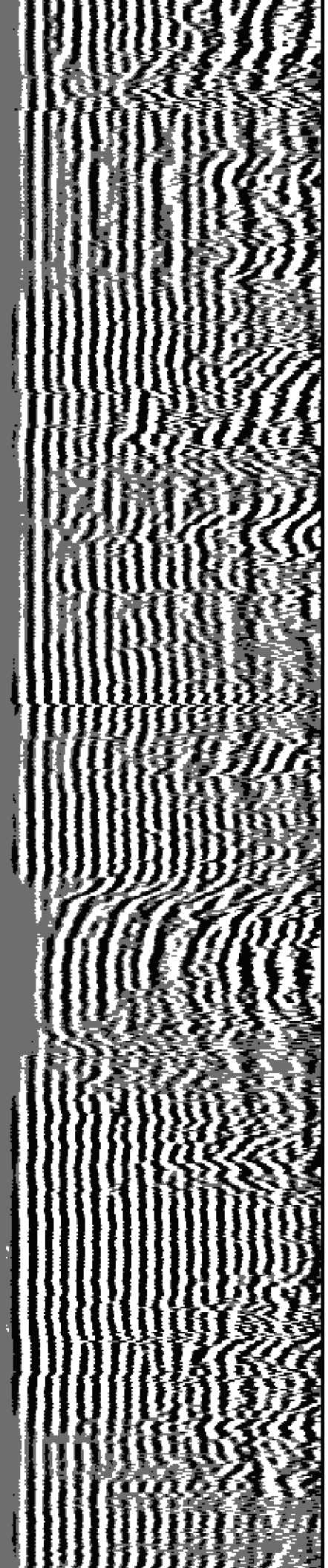


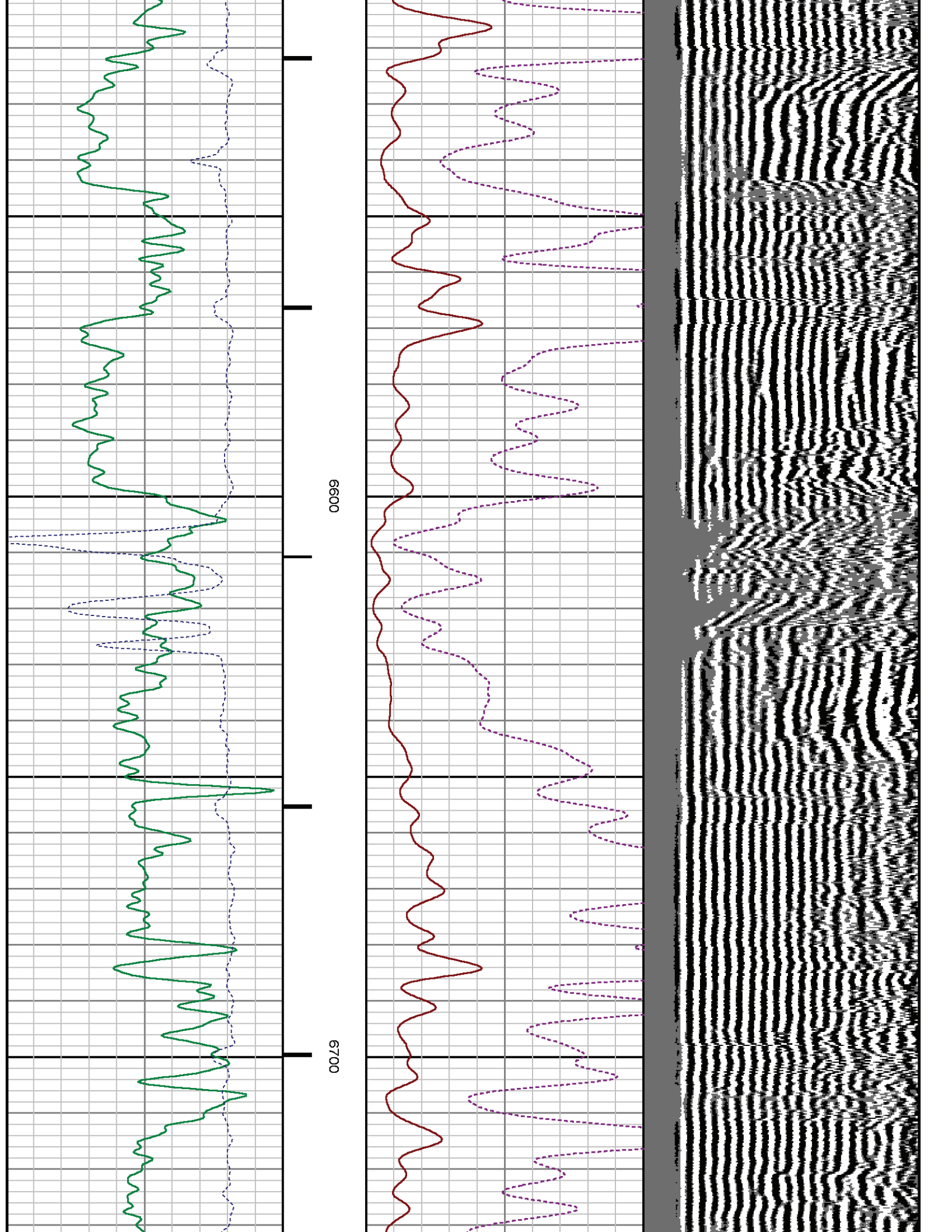




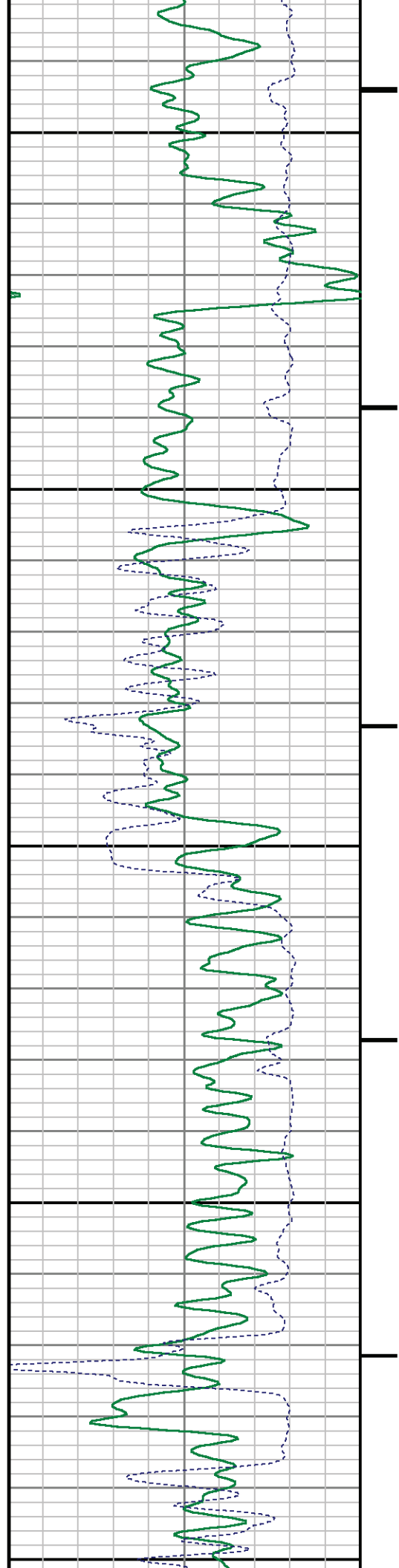






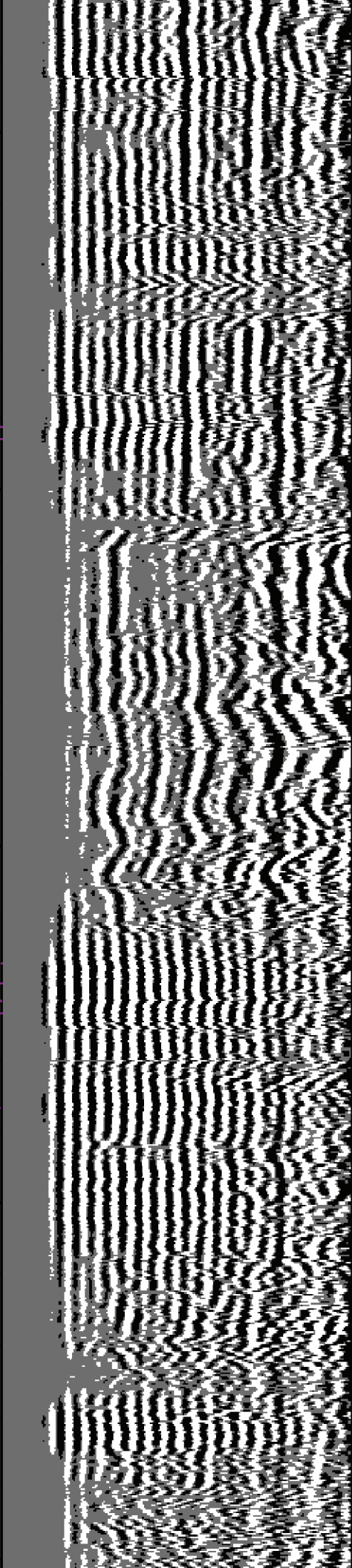
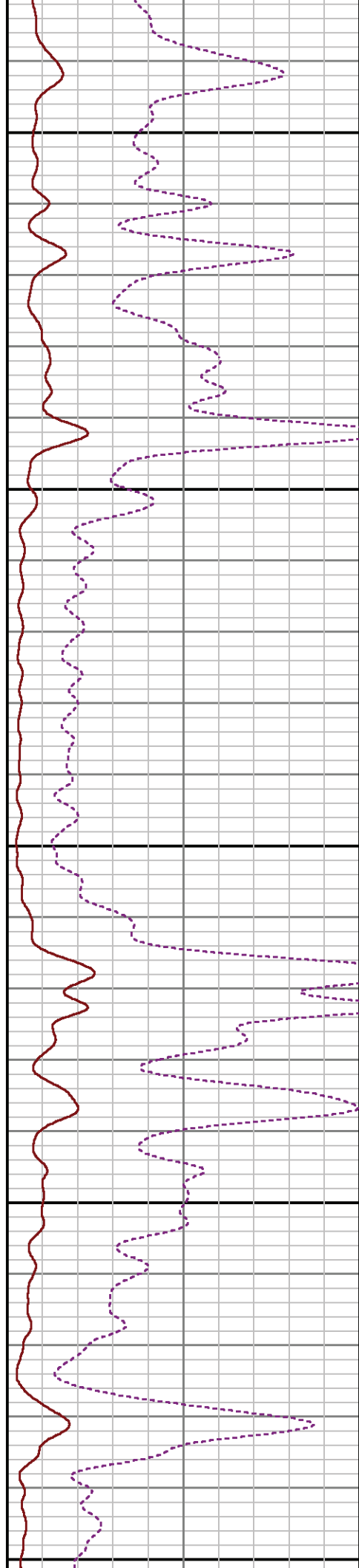


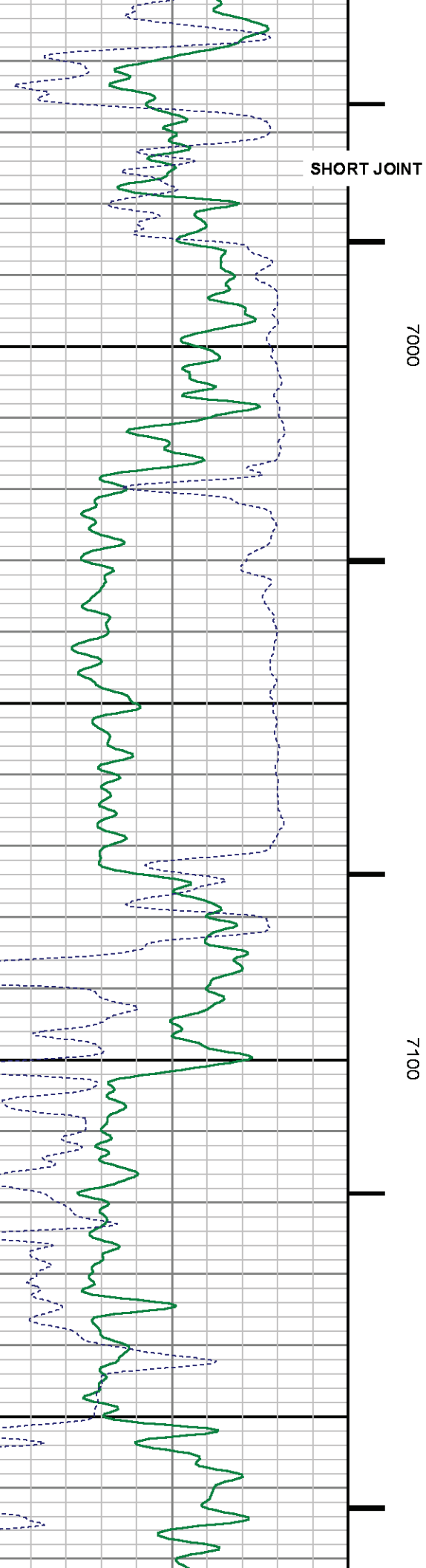
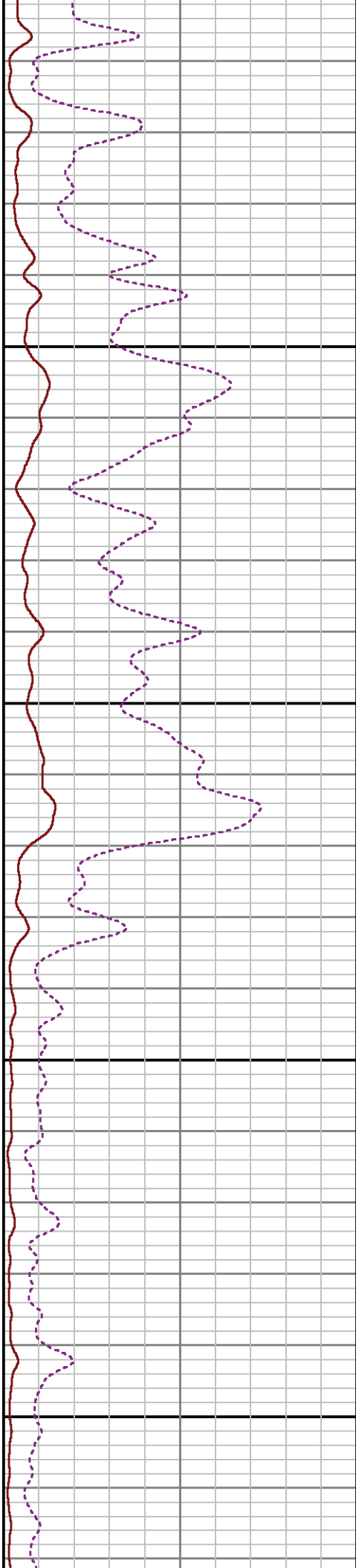
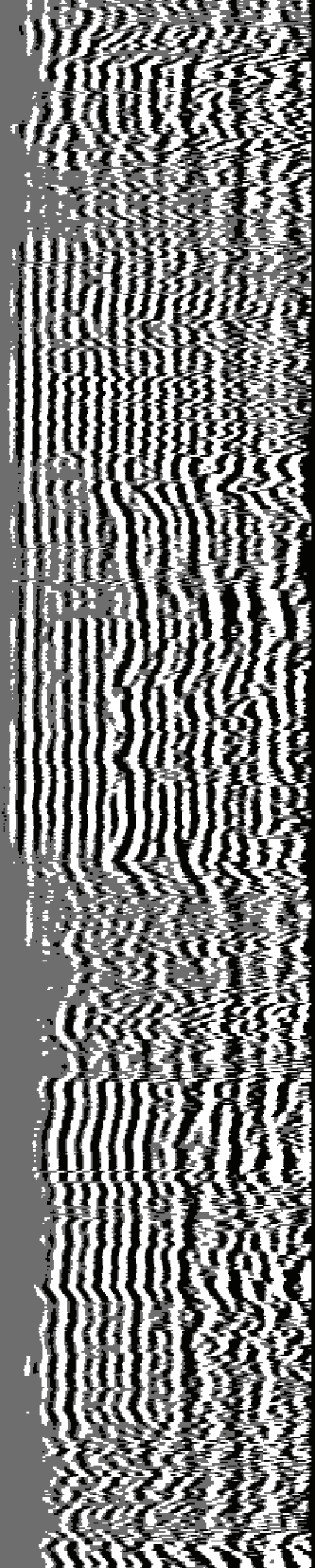


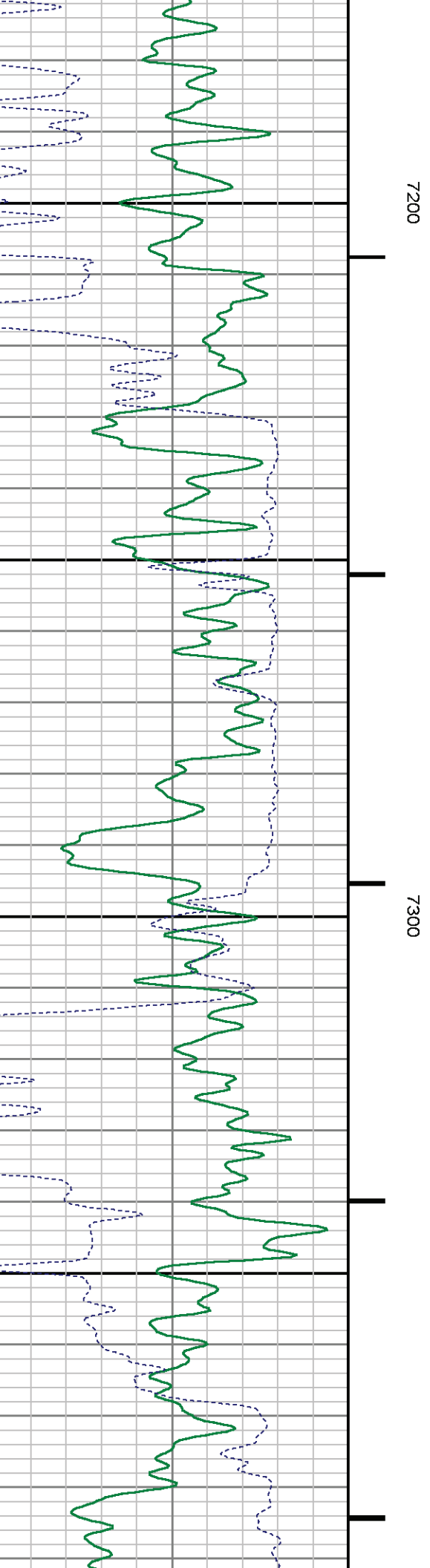
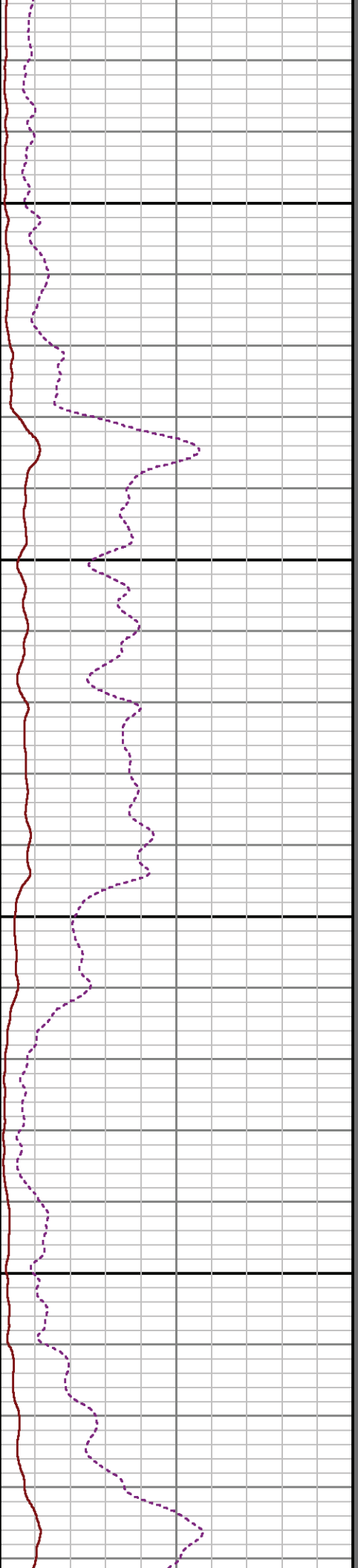
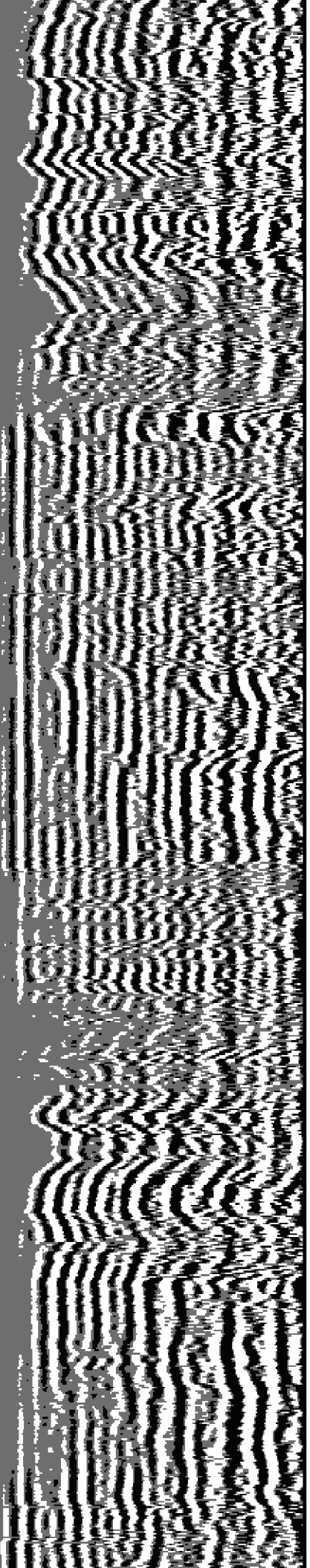


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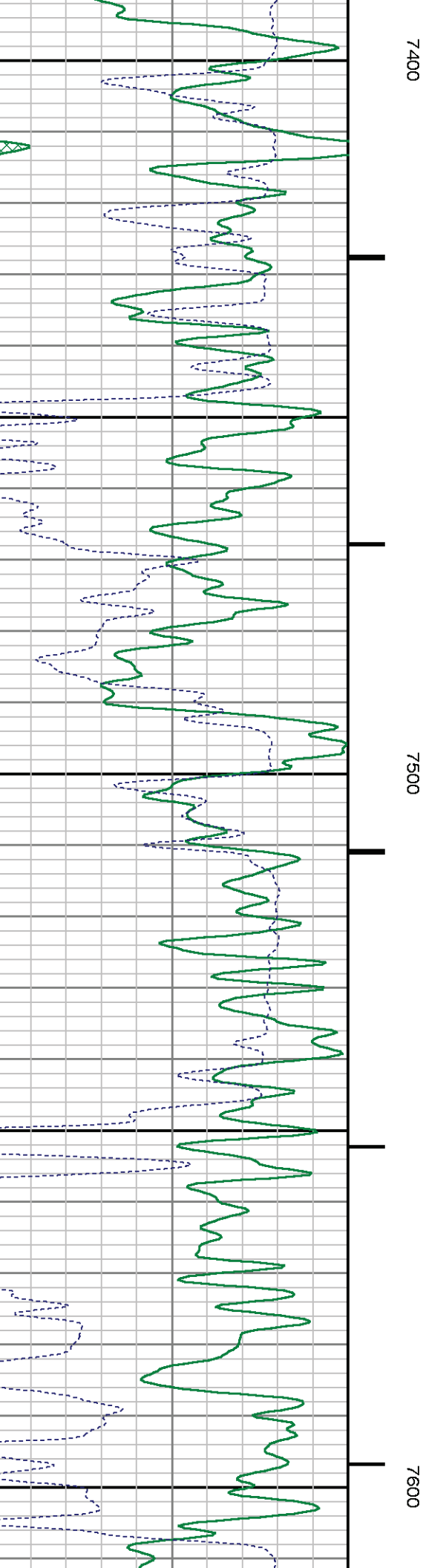
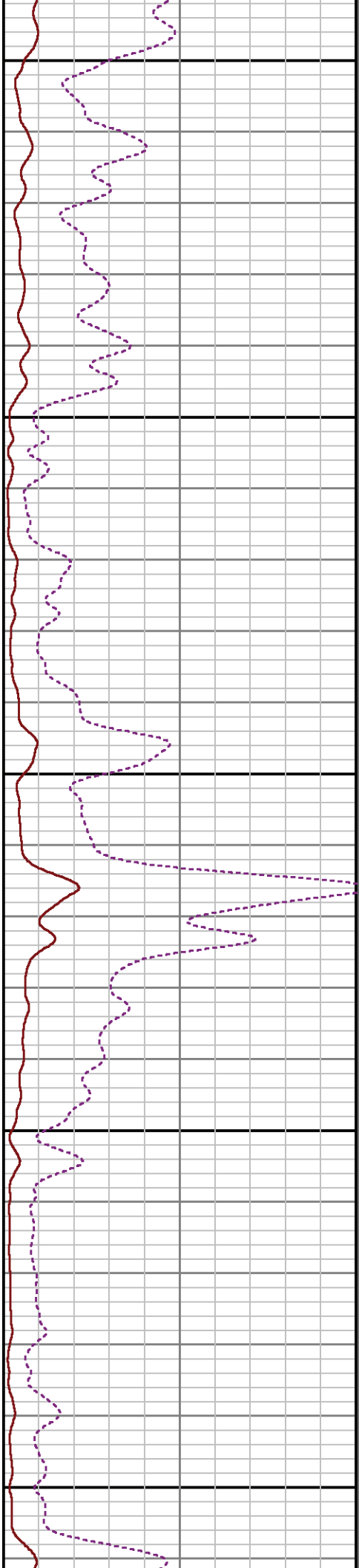
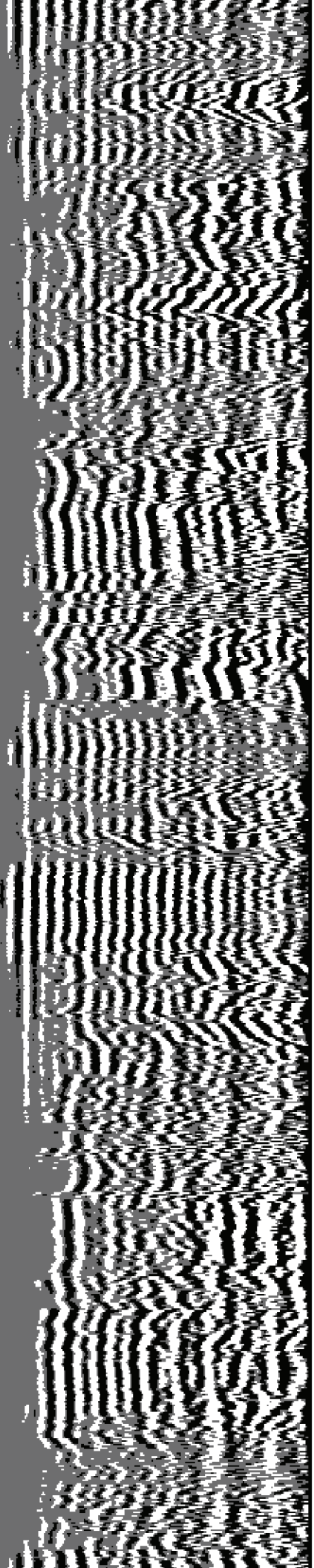
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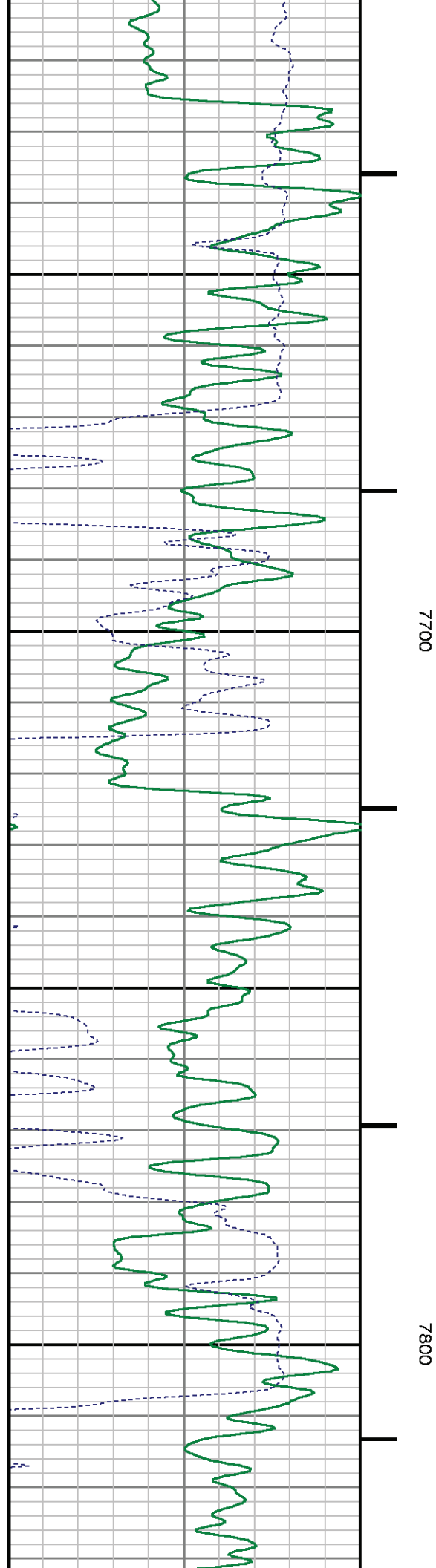
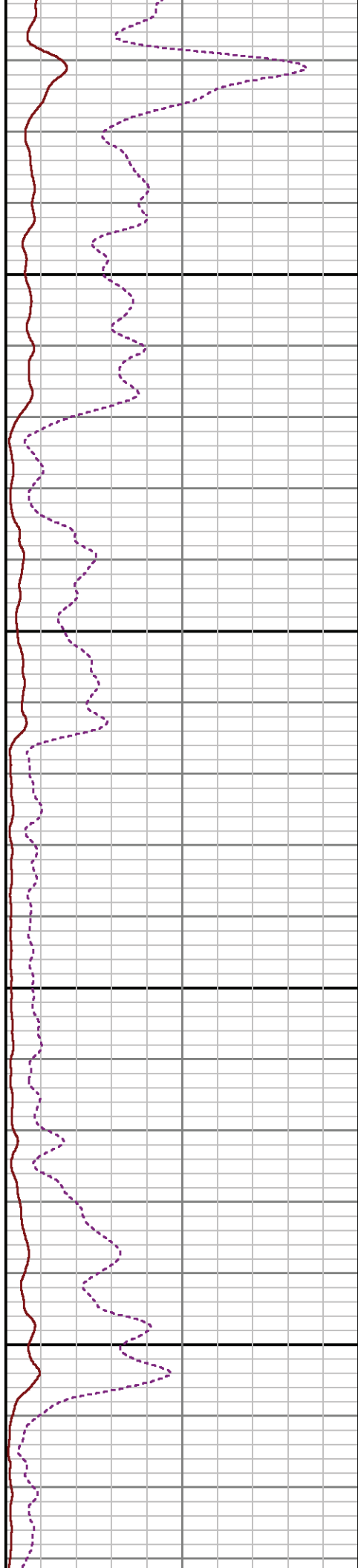
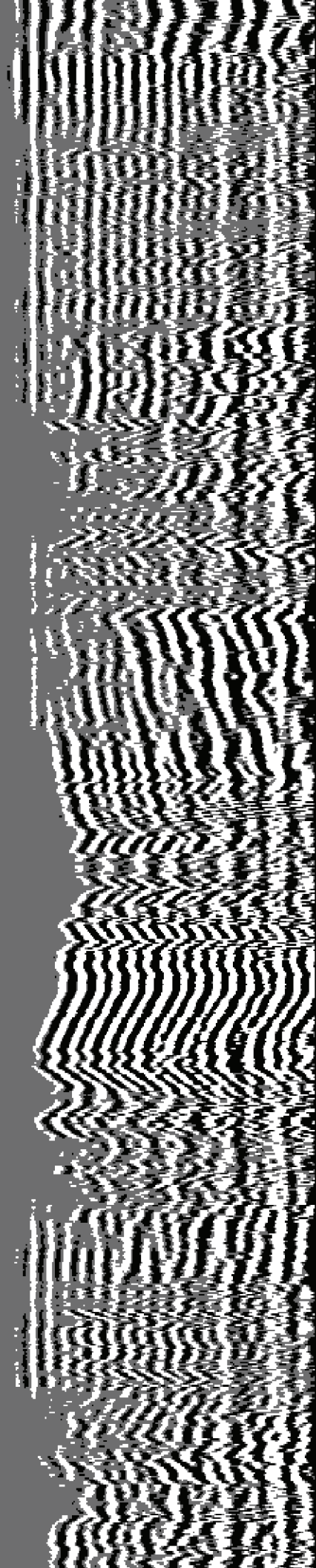


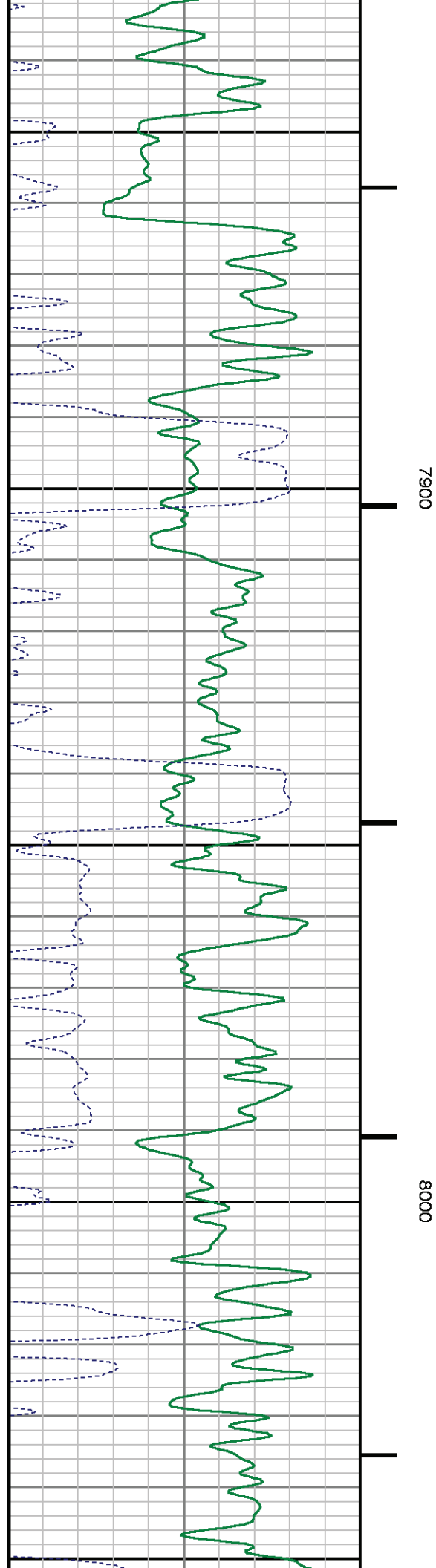
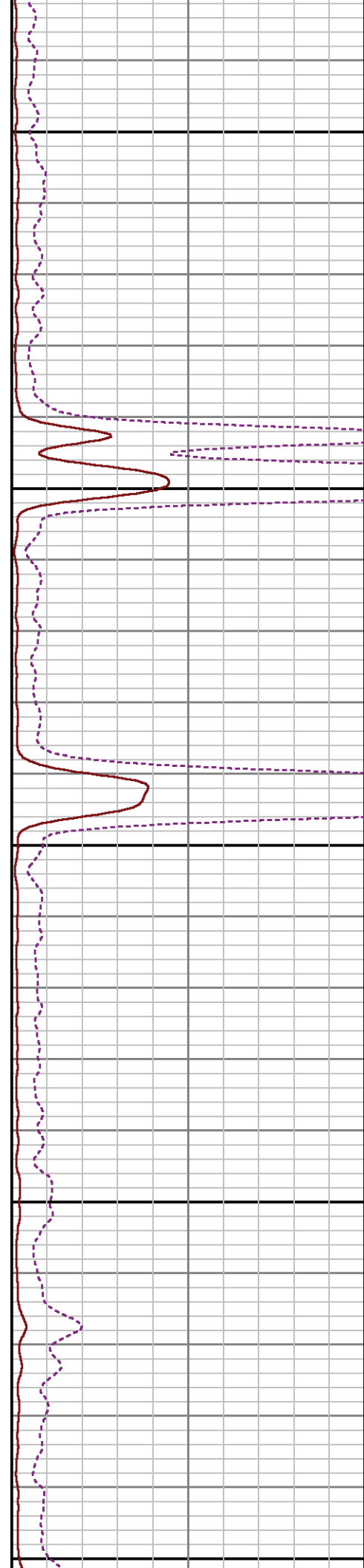
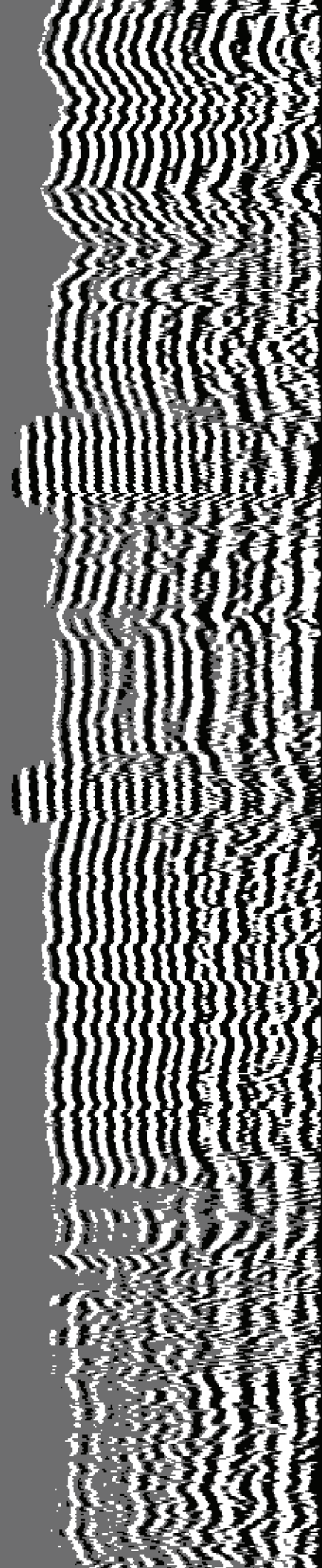


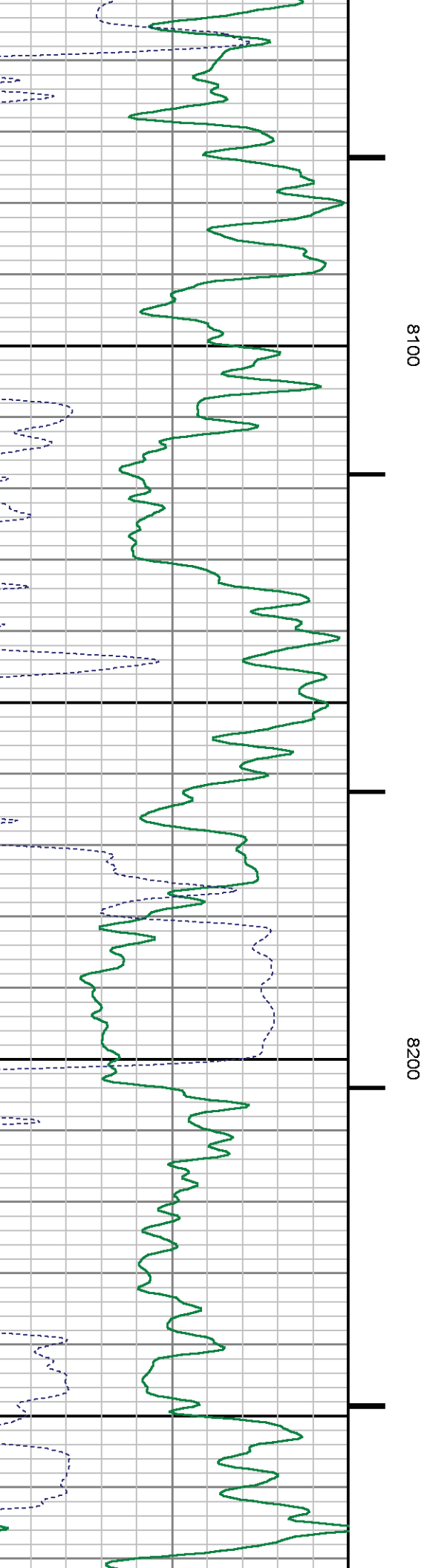
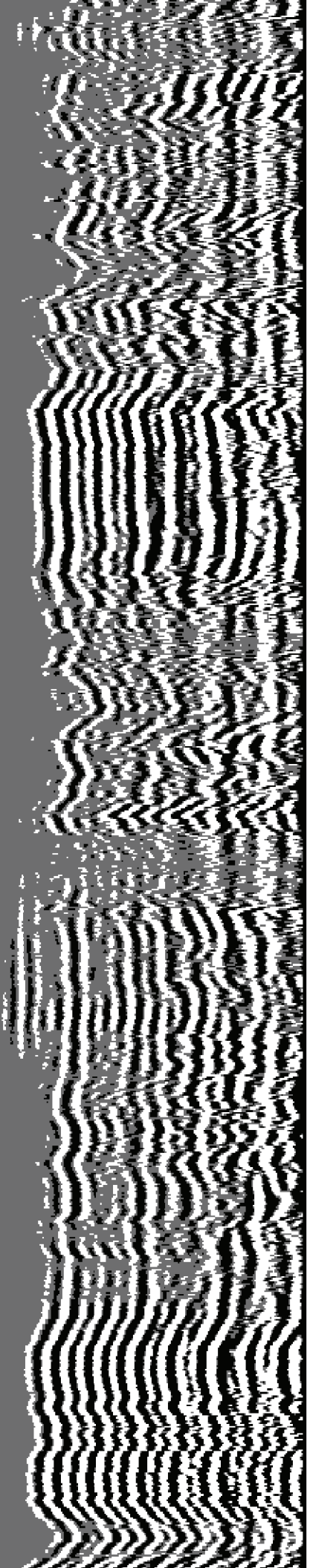


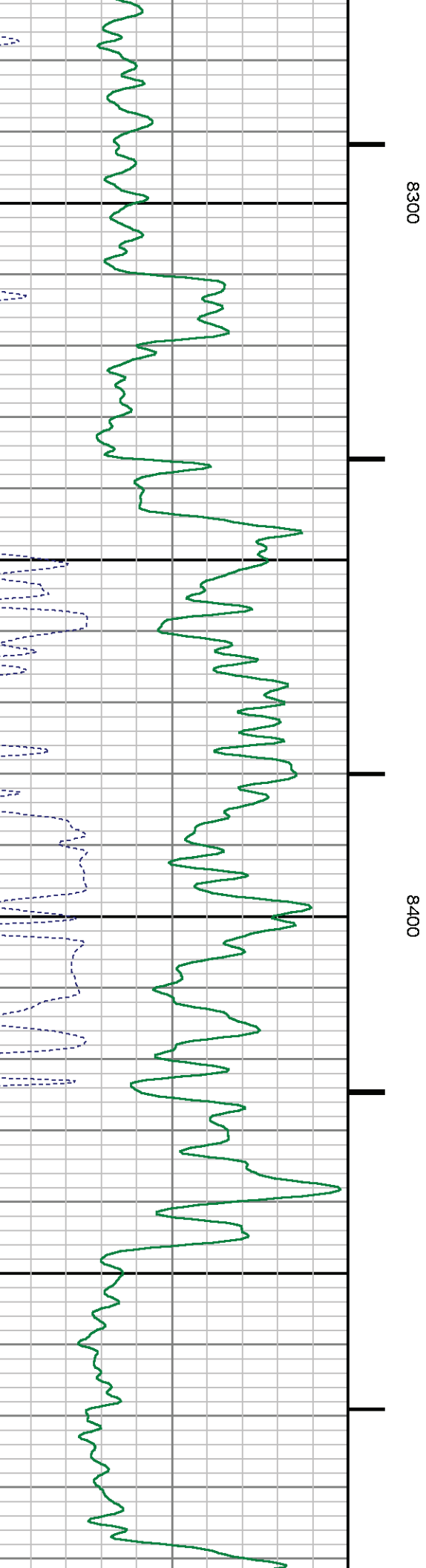
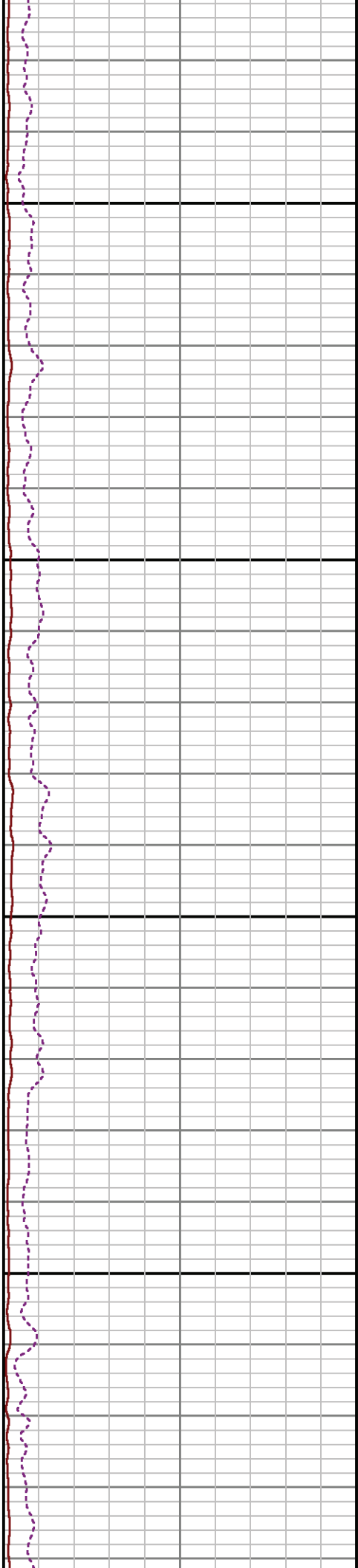
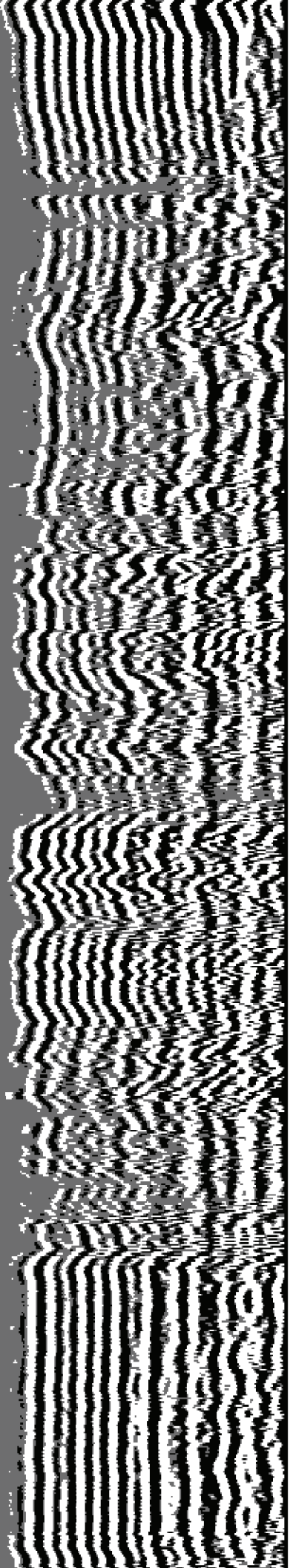




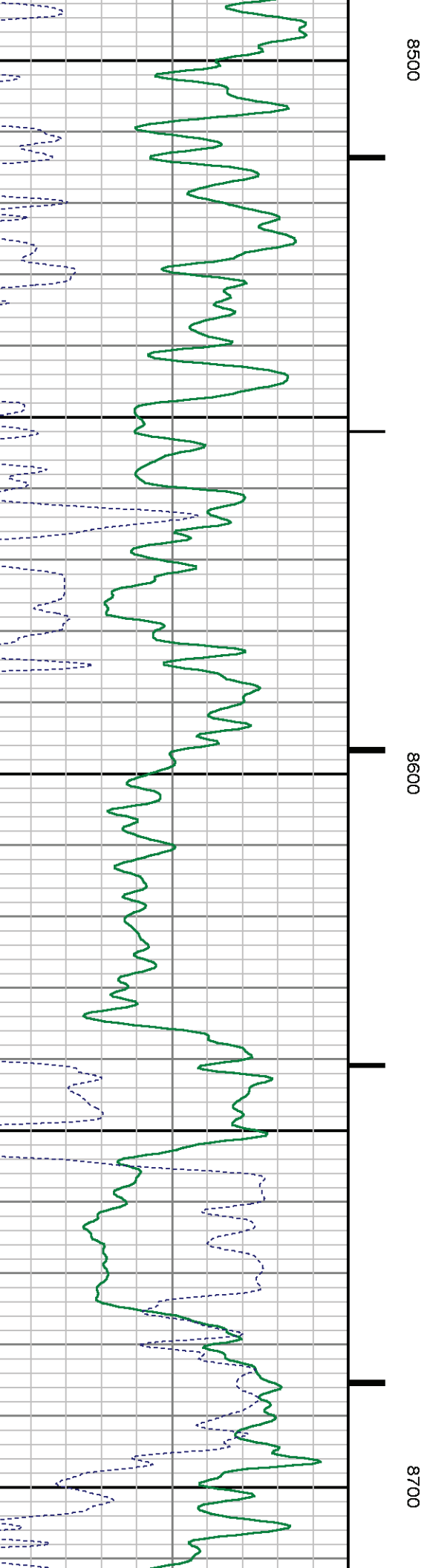
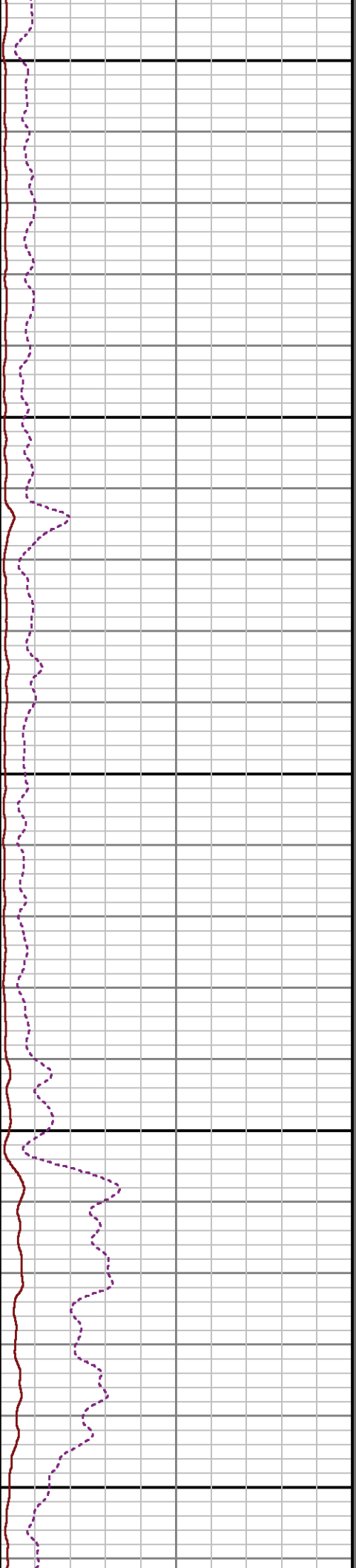
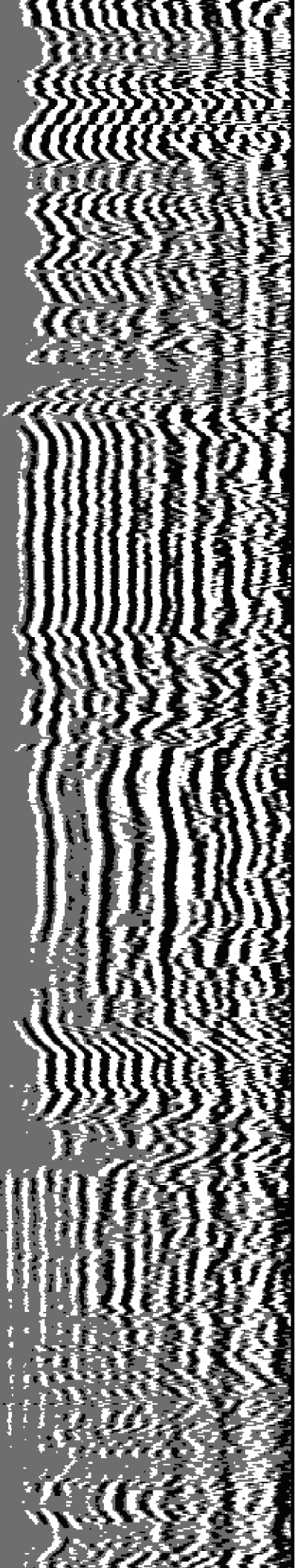


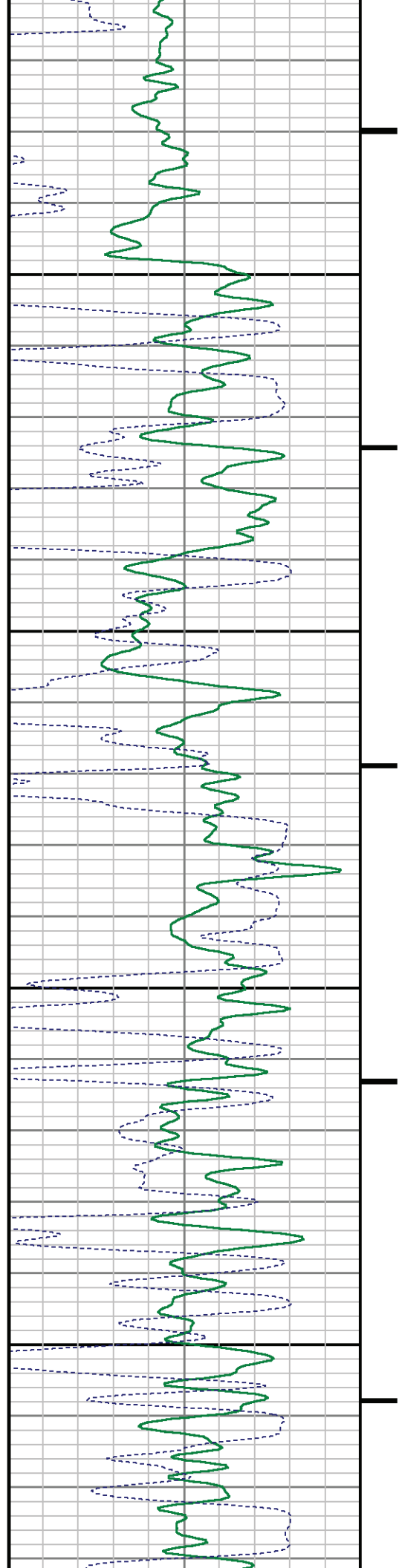






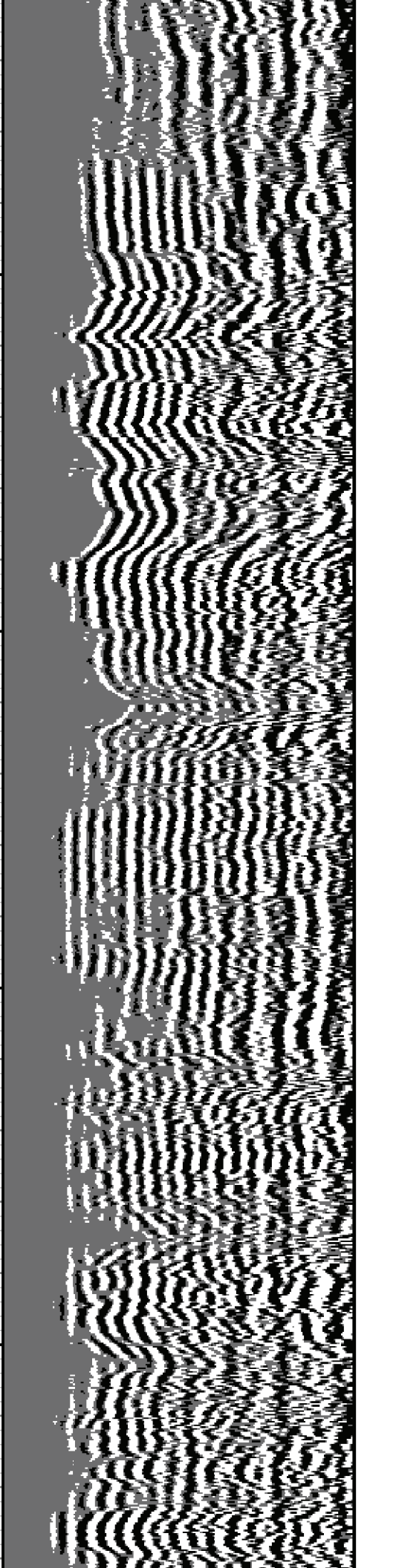
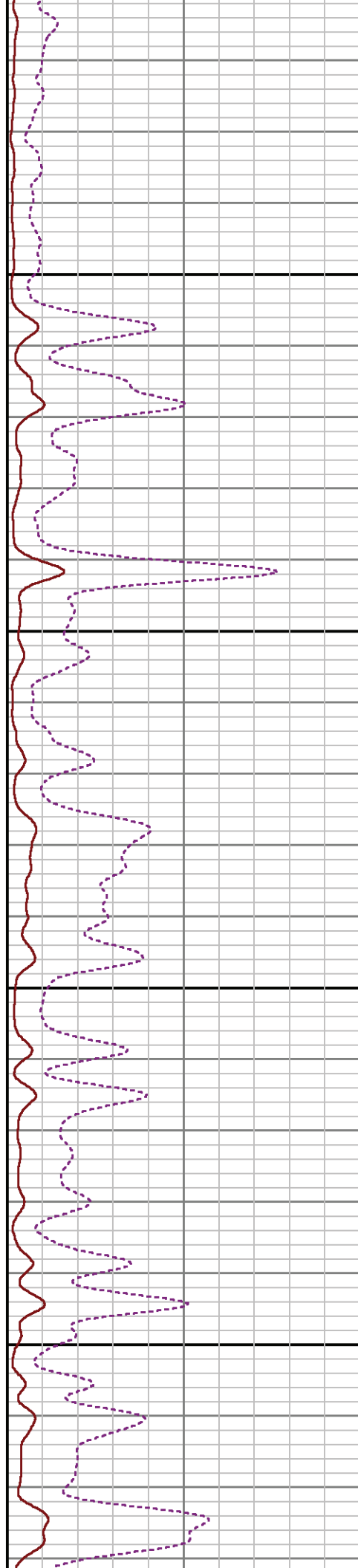


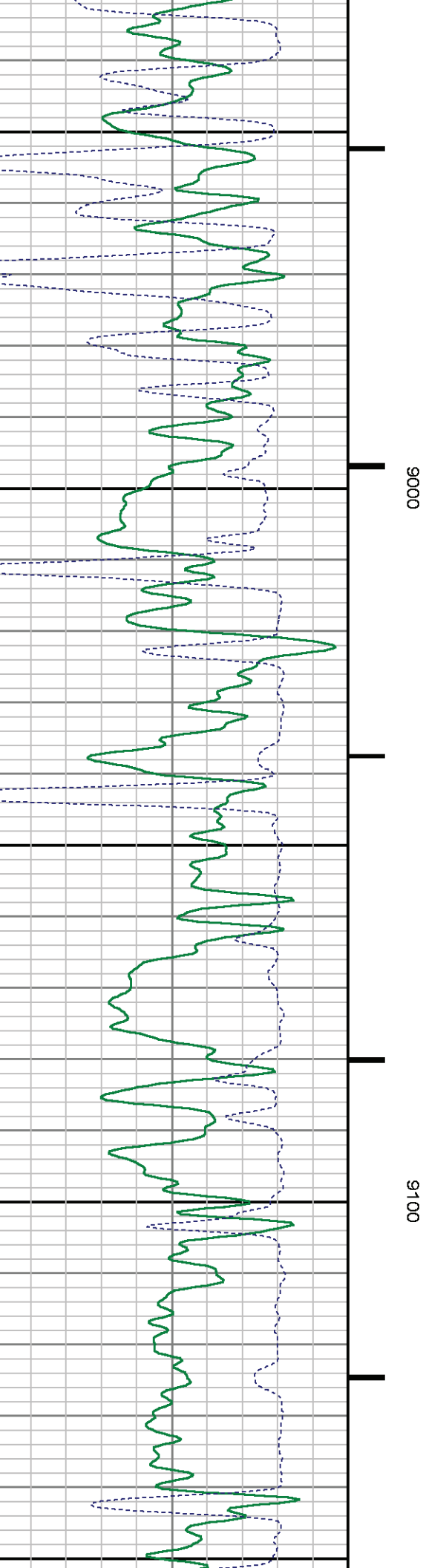
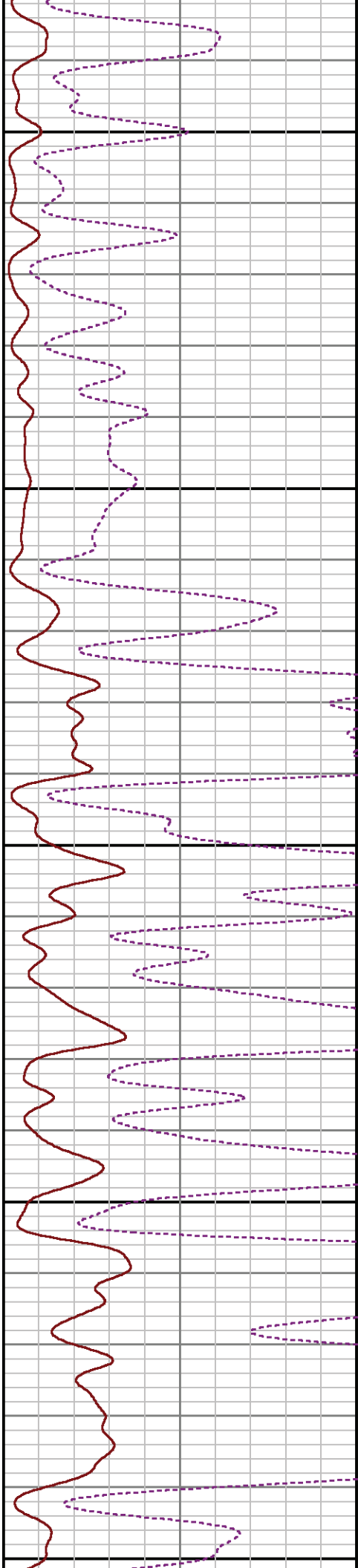
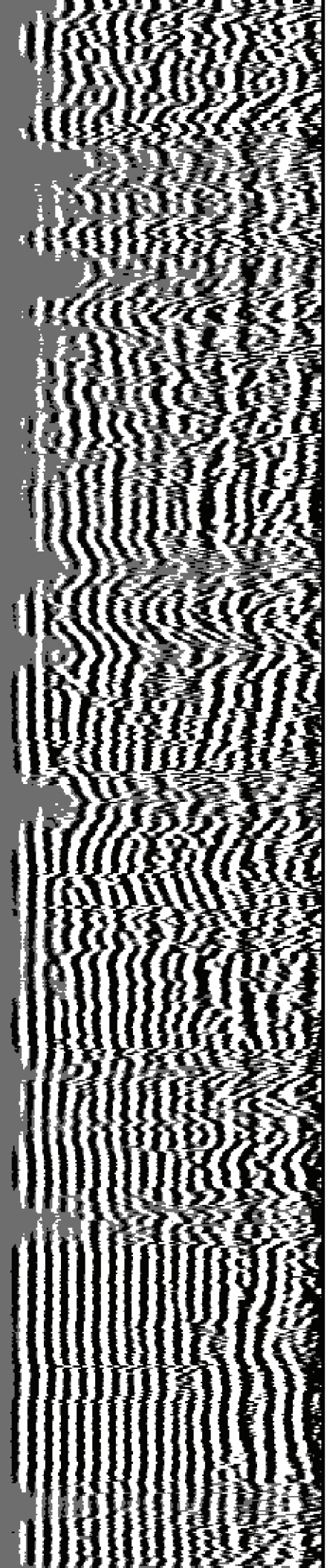


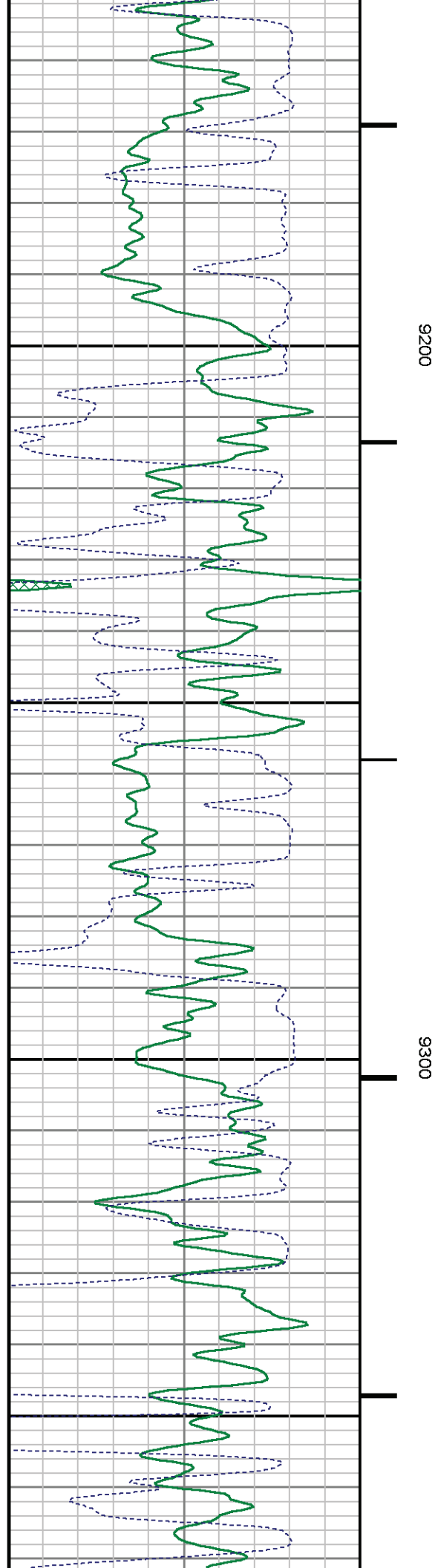
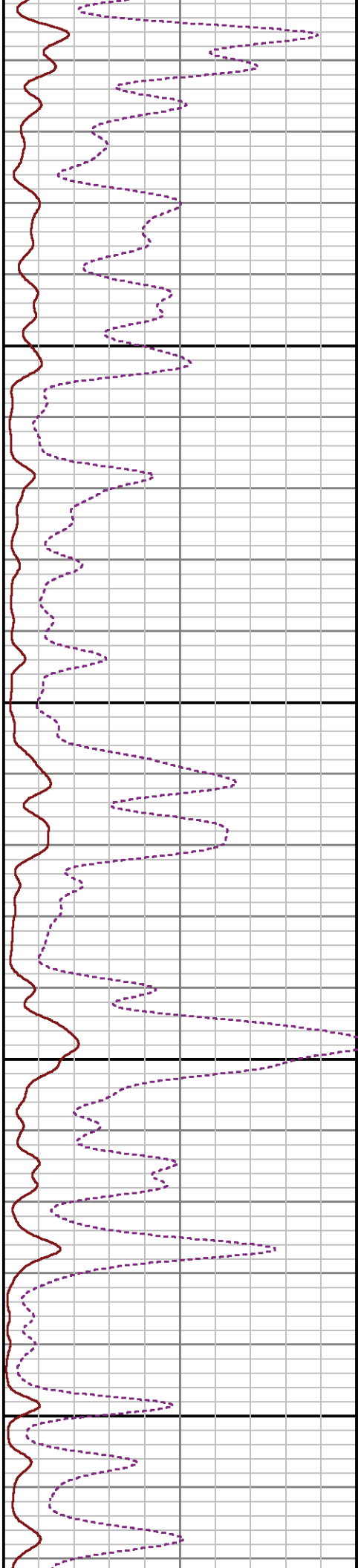
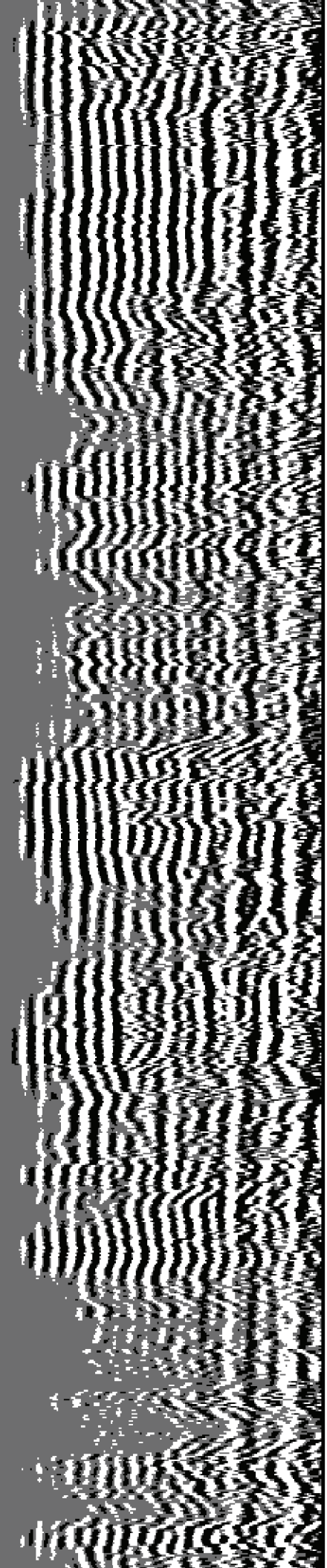


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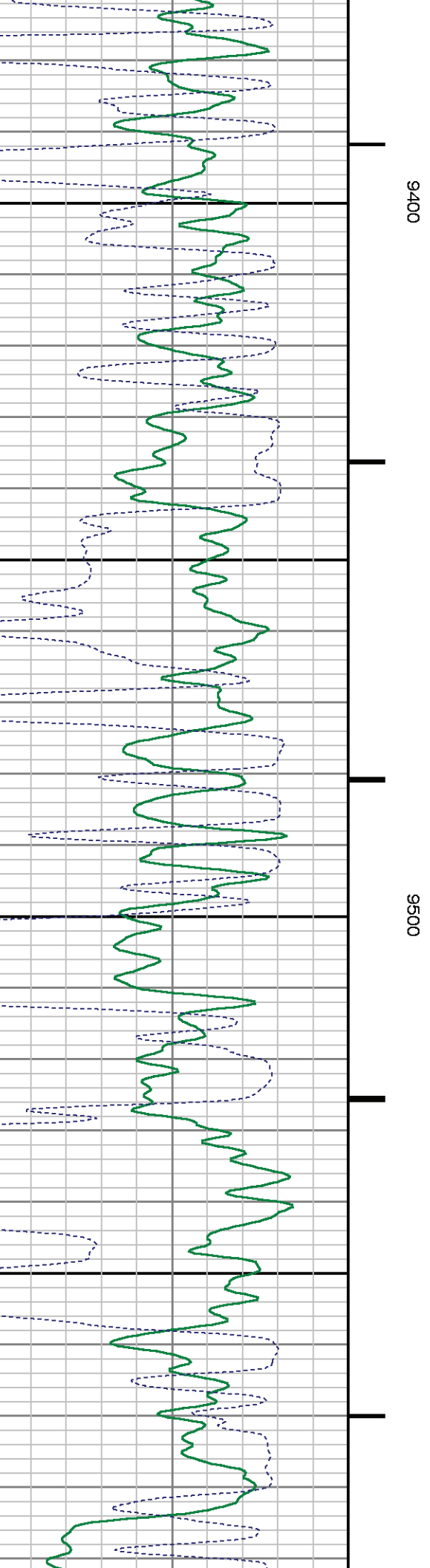
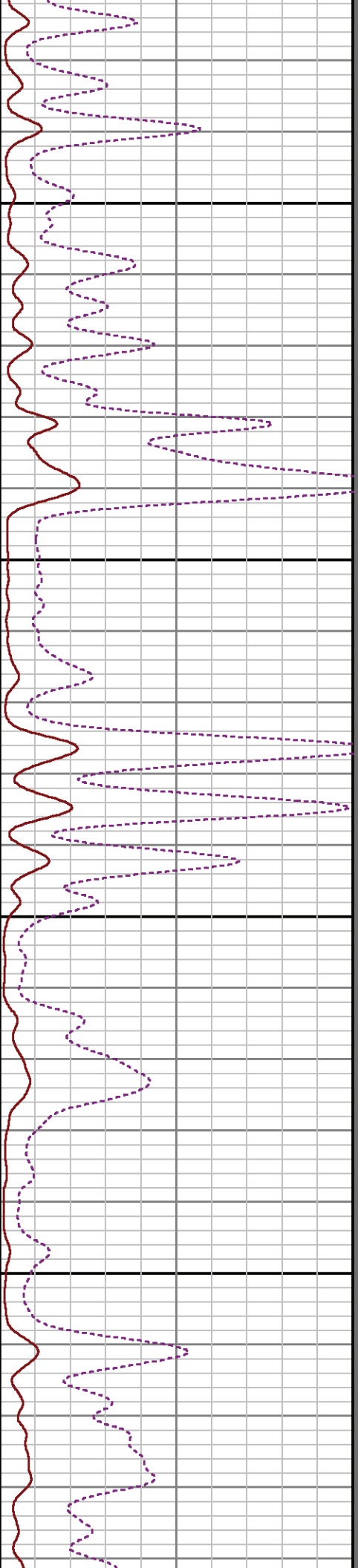
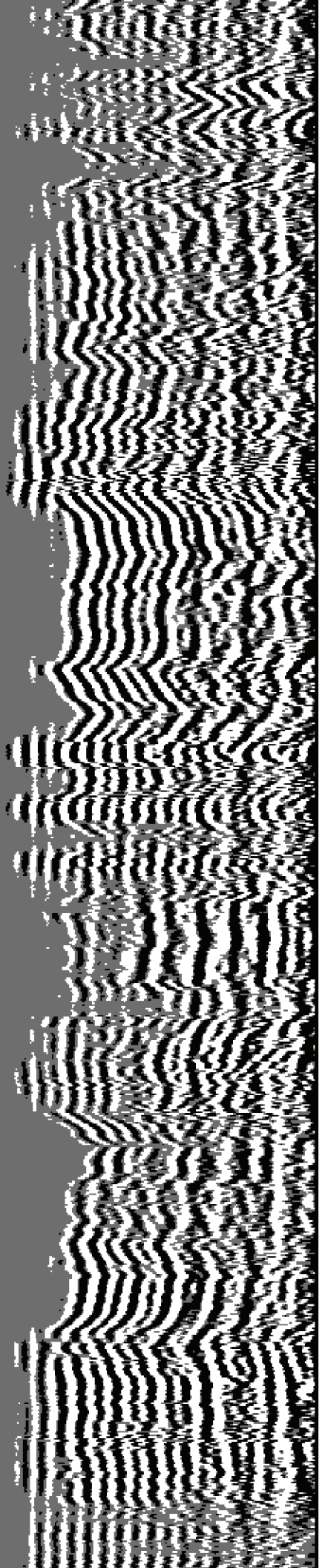
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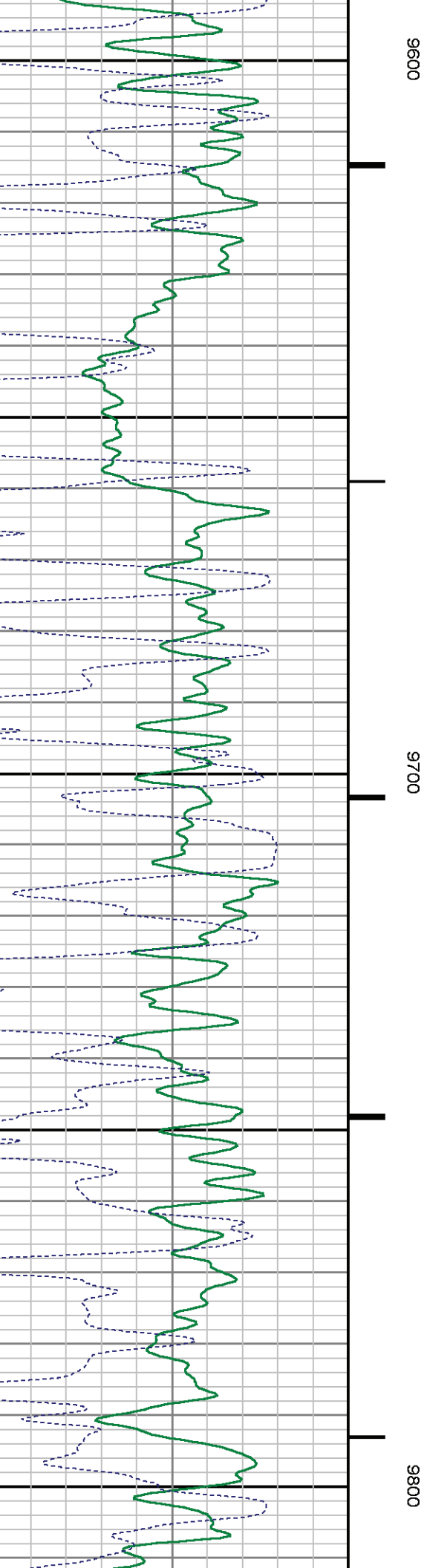
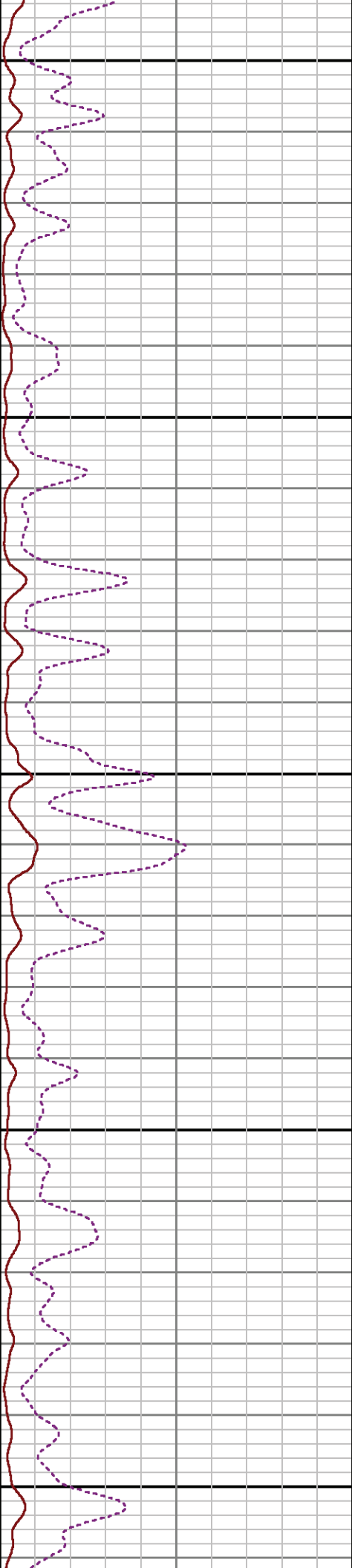
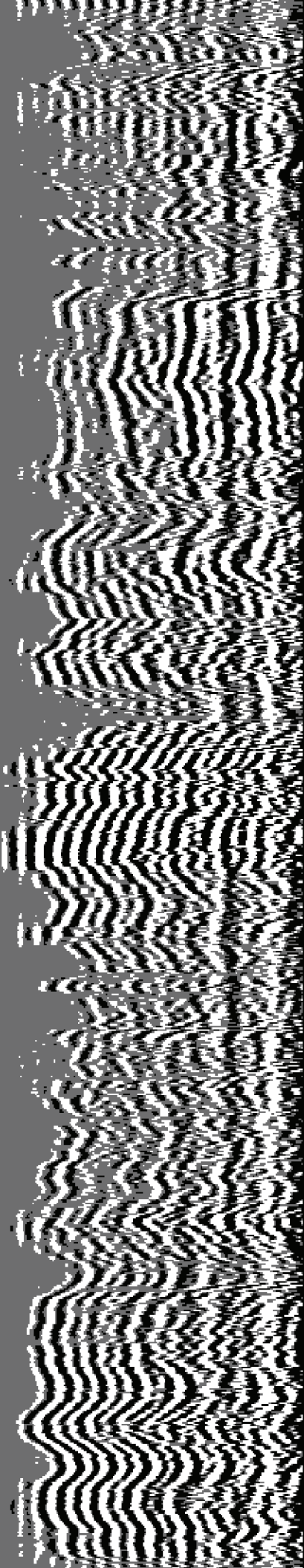


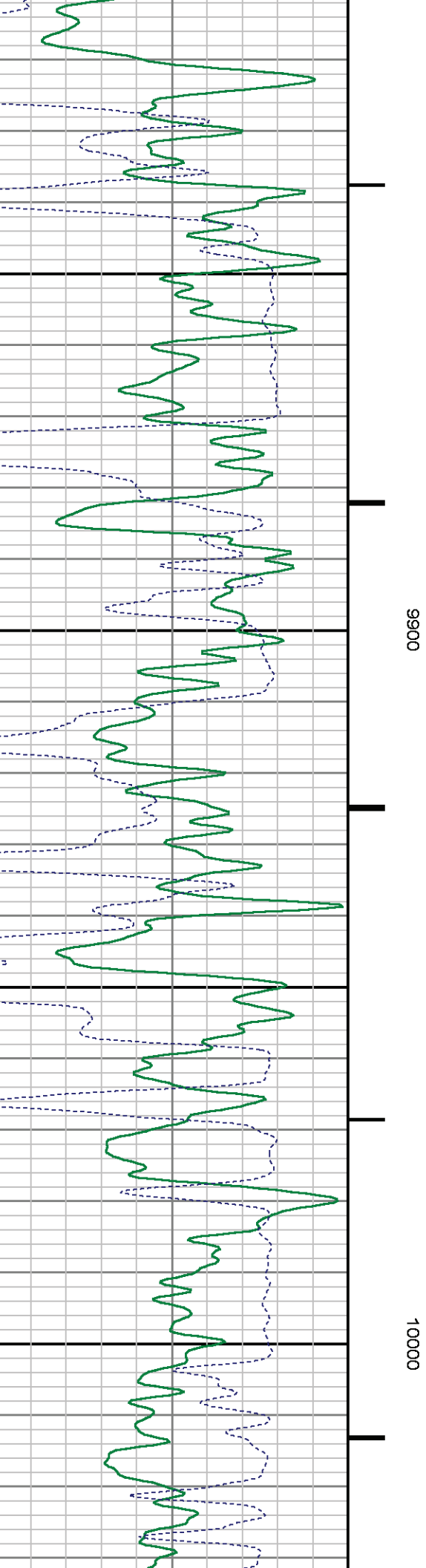
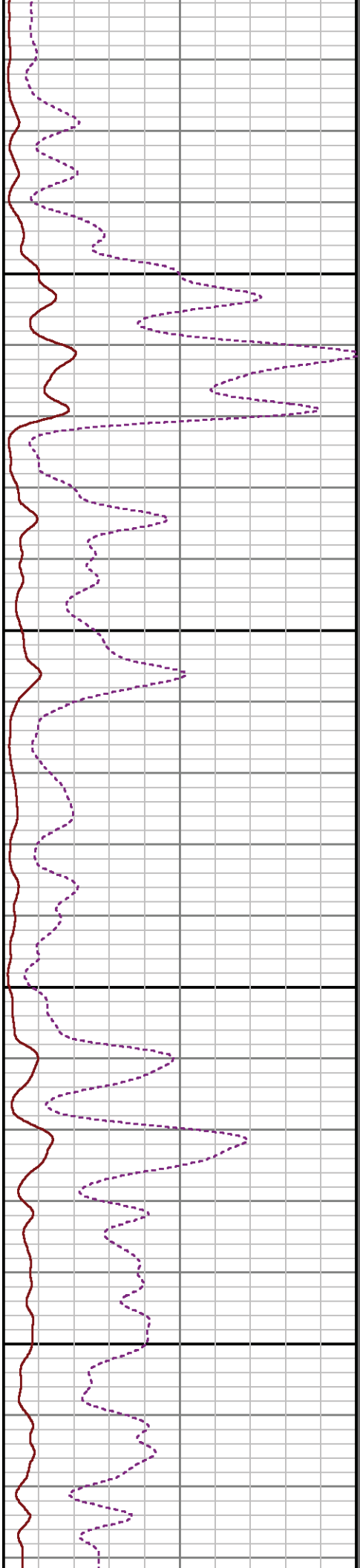
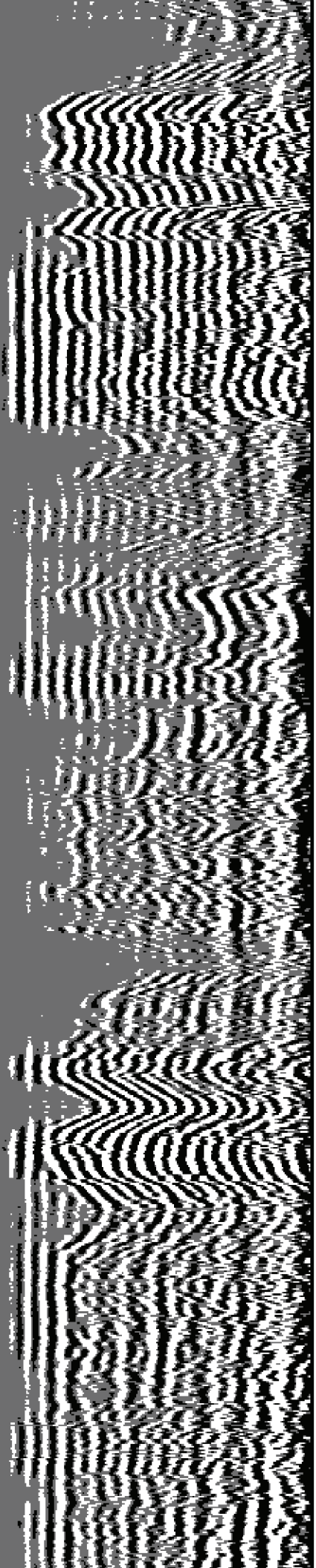


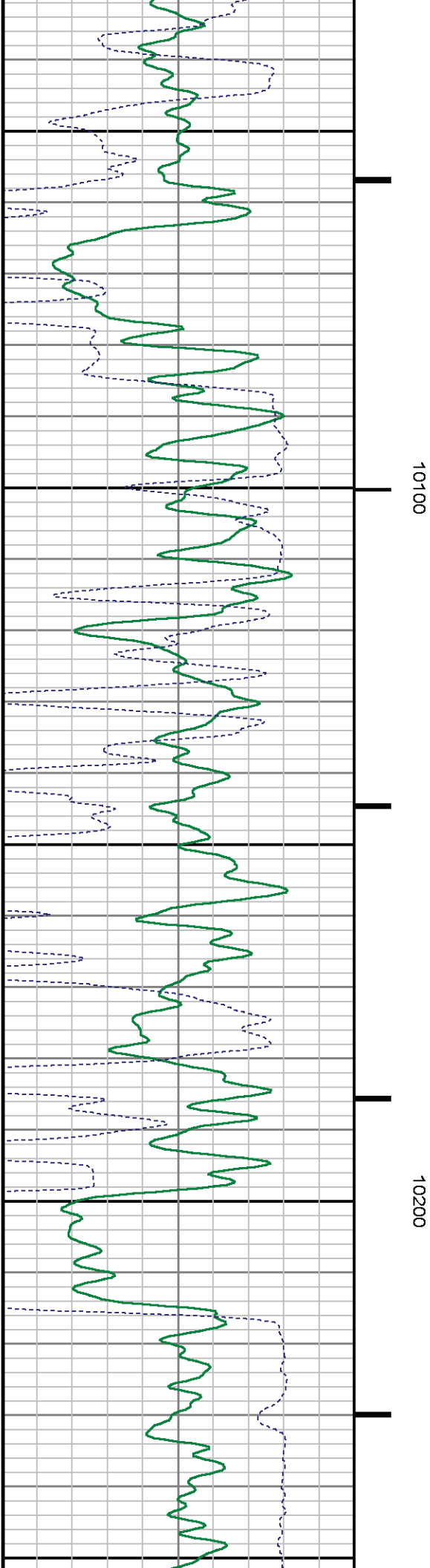
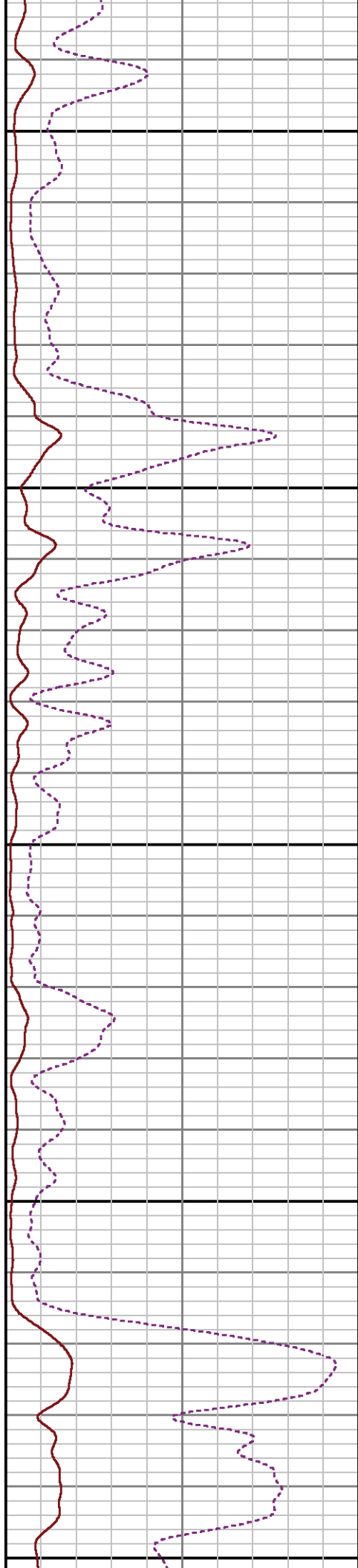
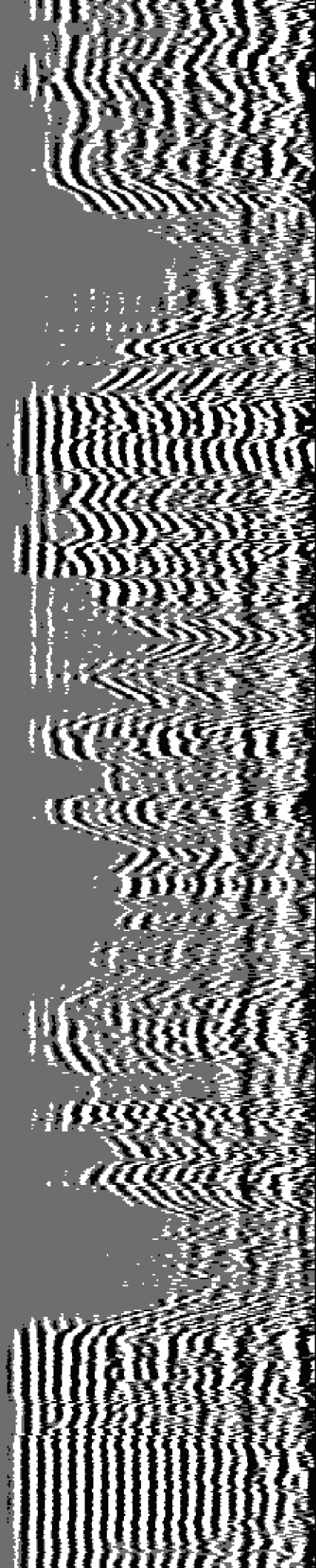


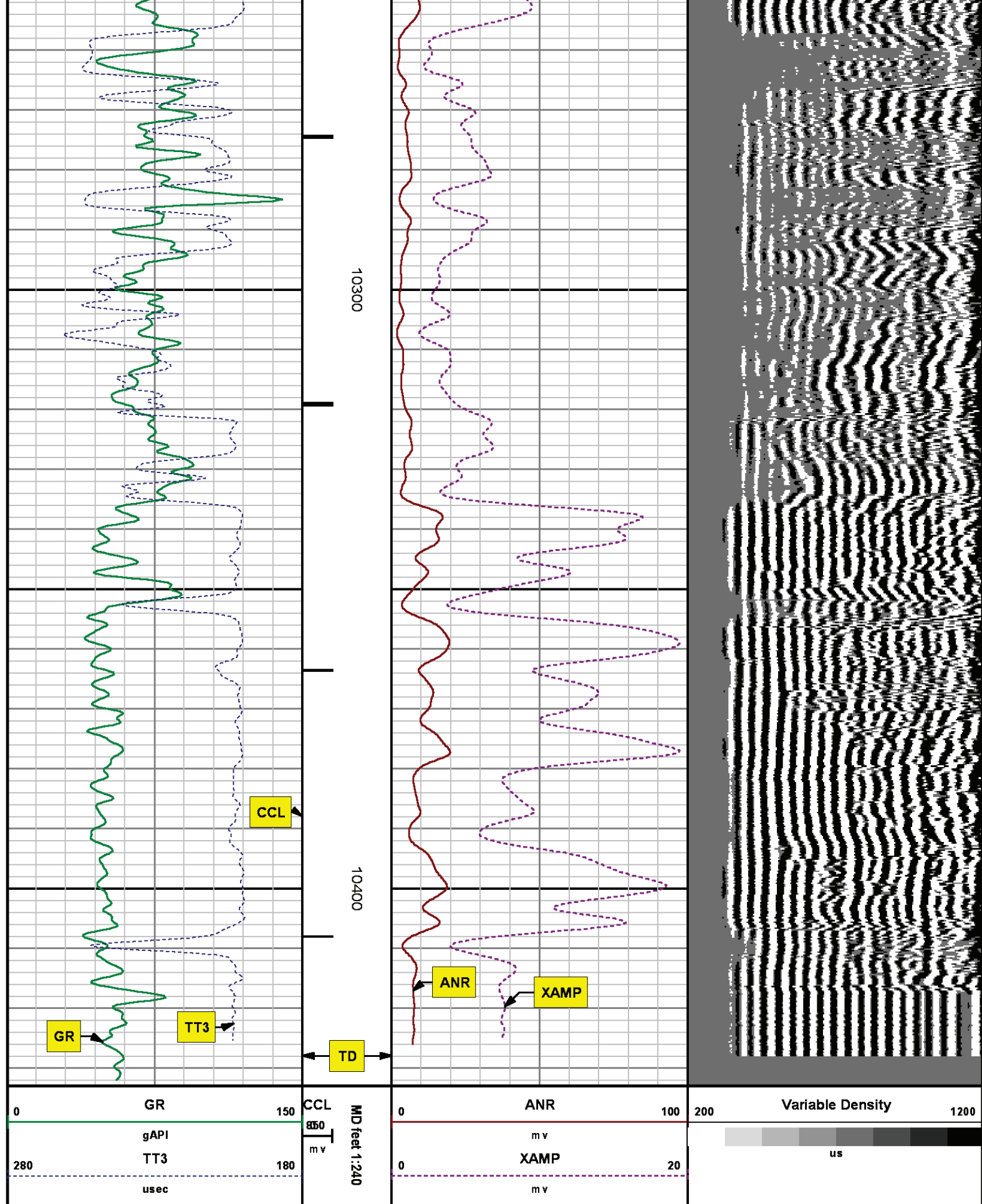












# SECONDARY PRESENTATION

## O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	28.593	10438.500
RAL	Amp Gate Start Near	195.000	usec	28.593	10438.500
RAL	Amp Gate Start Radial	195.000	usec	28.593	10438.500
RAL	Amp Gate Width Far	25.000	usec	28.593	10438.500
RAL	Amp Gate Width Near	25.000	usec	28.593	10438.500
RAL	Amp Gate Width Radial	25.000	usec	28.593	10438.500
RAL	casing od	4.500	inches	28.593	10438.500
RAL	casing wt	11.600	lbm/ft	28.593	10438.500
RAL	FB Start Far	291.900	usec	28.593	10438.500
RAL	FB Start Near	175.391	usec	28.593	10438.500
RAL	FB Start Radial	175.391	usec	28.593	10438.500
RAL	FB Thresh Far	10.000	mv	28.593	10438.500
RAL	FB Thresh Near	4.000	mv	28.593	10438.500
RAL	FB Thresh Radial	4.000	mv	28.593	10438.500
RAL	Fluid Travel Time	200.000	usec/ft	28.593	10439.030

### DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : FEDERAL NER 513-32