



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH084614 Company WPX ENERGY

Well FEDERAL NER 514-32

API No: RULISON

County GARFIELD State COLORADO

05045217860000

Location

SHL: 192' FNL x 2595' FWL SEC 5 7S 93W

BHL: 169' FSL x 673' FWL SEC 32 6S 93W

SEC 32 TWP 6S RGE 93W

Other Services
RPM

32 6S 93W
RU 23-5 PAD
NABORS 576

Permanent Datum GL Elevation 7603 ft

Log Measured From KB 26 ft Above P. D.

Drill Measured From KELLY BUSHING

Elevations
KB 7629 ft
DF
GL 7603 ft

Date	03/APR/14	
Run	ONE	
Service Order	US628372	
Depth Driller	10232 ft	
Depth Logger	10203 ft	
Bottom Logged Interval	10193 ft	
Top Logged Interval	26 ft	
Time Started	0830	
Time Finished	1330	
Operator Rig Time	5 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	90 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	NONE	
Reference Log Date	NE	
Equipment No.	4271	GRAND UCT
Recorded By	FLOYD RENEAU	
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	26 ft	1126 ft
8.75 in	1126 ft	10232 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			26 ft	1126 ft
4.5 in	11.6 lbm/ft	P-110	26 ft	10232 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 15 feet.
Logged with zero PSI at wellhead.
BHT = 242°F
SJ = 6981'-7003'

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

PRIMARY PRESENTATION
0 PSI

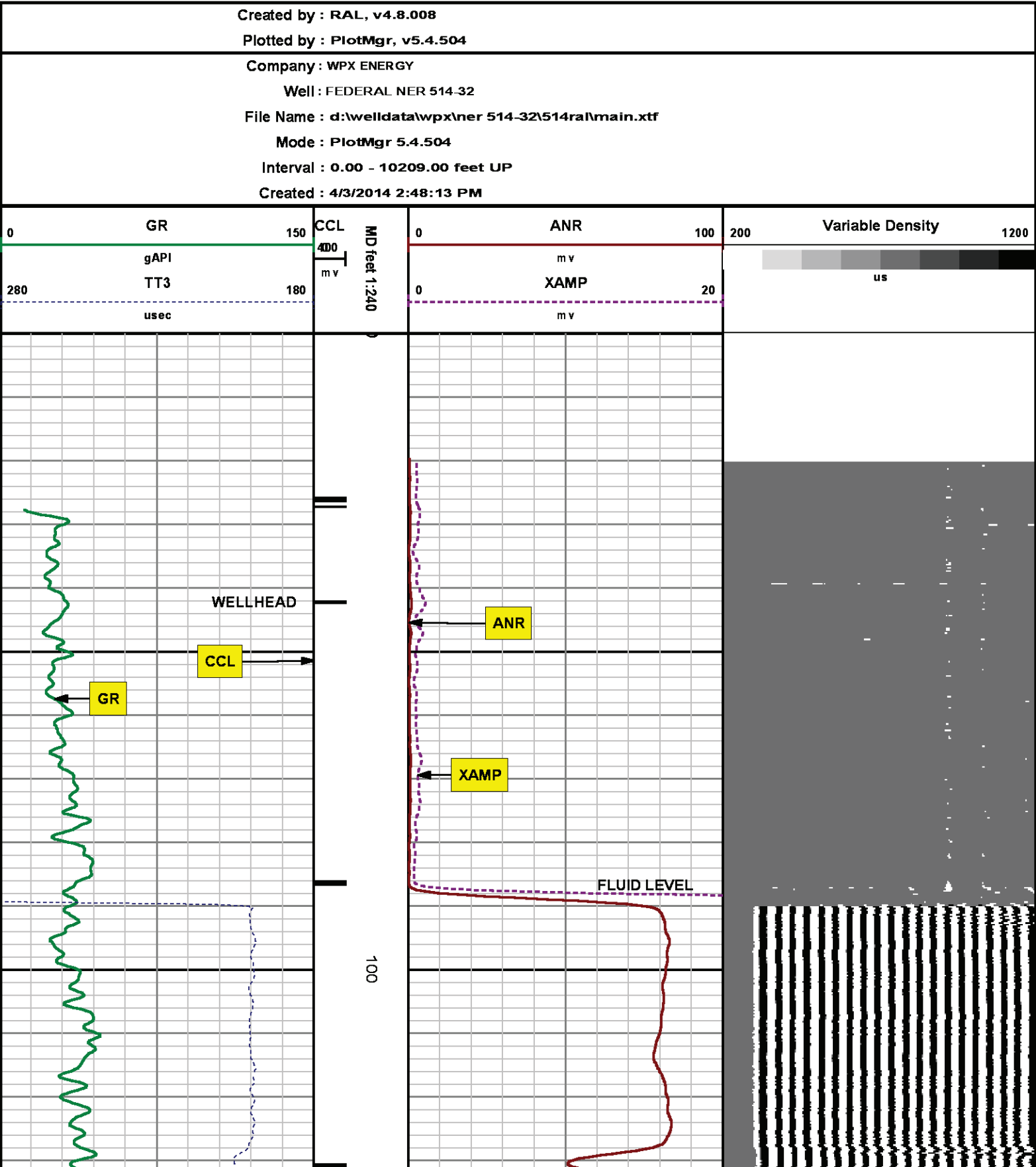
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.872	10211.000
RAL	Amp Gate Start Near	195.000	usec	35.872	10211.000
RAL	Amp Gate Start Radial	195.000	usec	35.872	10211.000
RAL	Amp Gate Width Far	25.000	usec	35.872	10211.000
RAL	Amp Gate Width Near	25.000	usec	35.872	10211.000
RAL	Amp Gate Width Radial	25.000	usec	35.872	10211.000
RAL	casing od	4.500	inches	35.872	10211.000
RAL	casing wt	11.600	lbm/ft	35.872	10211.000
RAL	FB Start Far	291.900	usec	35.872	10211.000
RAL	FB Start Near	180.000	usec	35.872	10211.000
RAL	FB Start Radial	180.000	usec	35.872	10211.000
RAL	FB Thresh Far	10.000	mv	35.872	10211.000
RAL	FB Thresh Near	4.000	mv	35.872	10211.000
RAL	FB Thresh Radial	4.000	mv	35.872	10211.000
RAL	Fluid Travel Time	200.000	usec/ft	35.872	10211.872

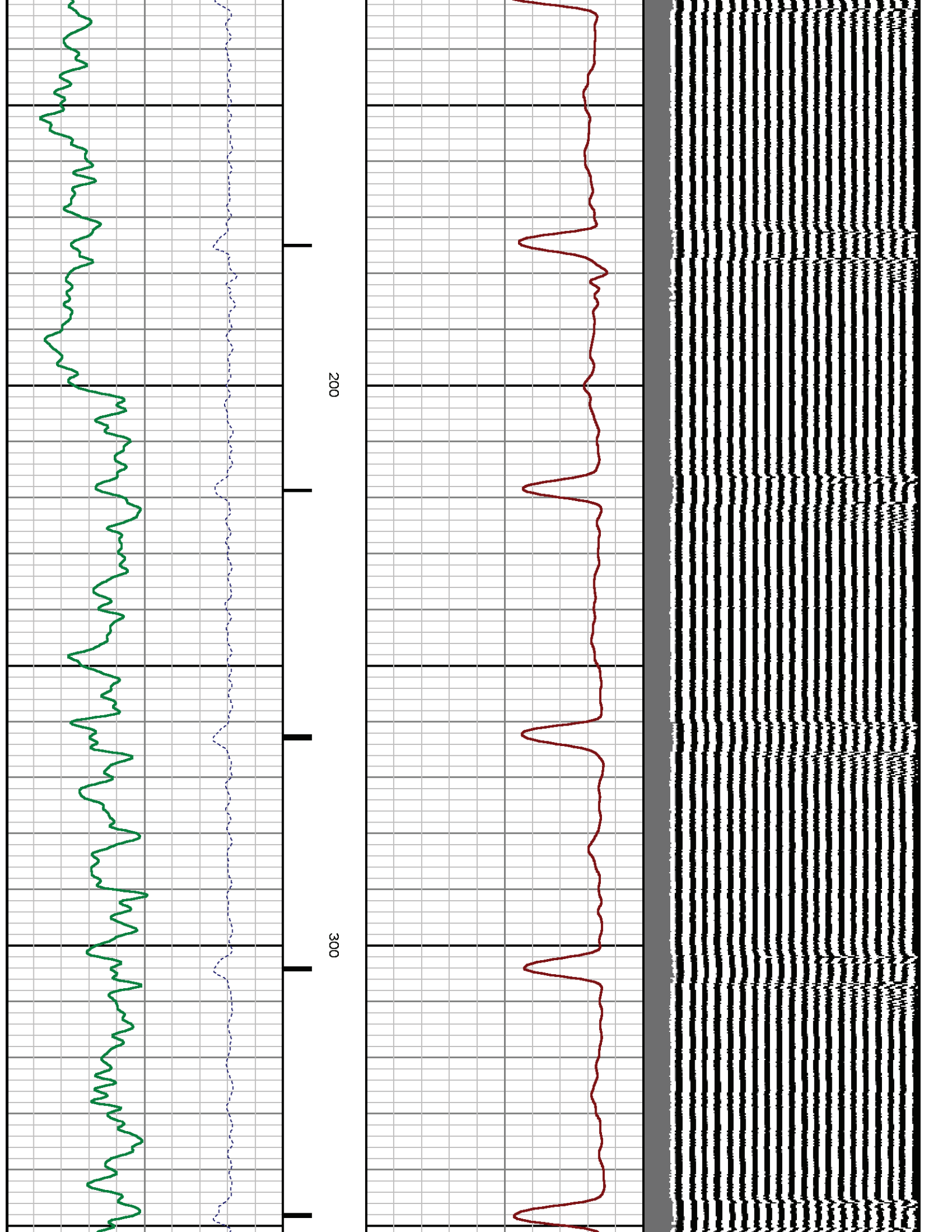
DEPTH OFFSETS

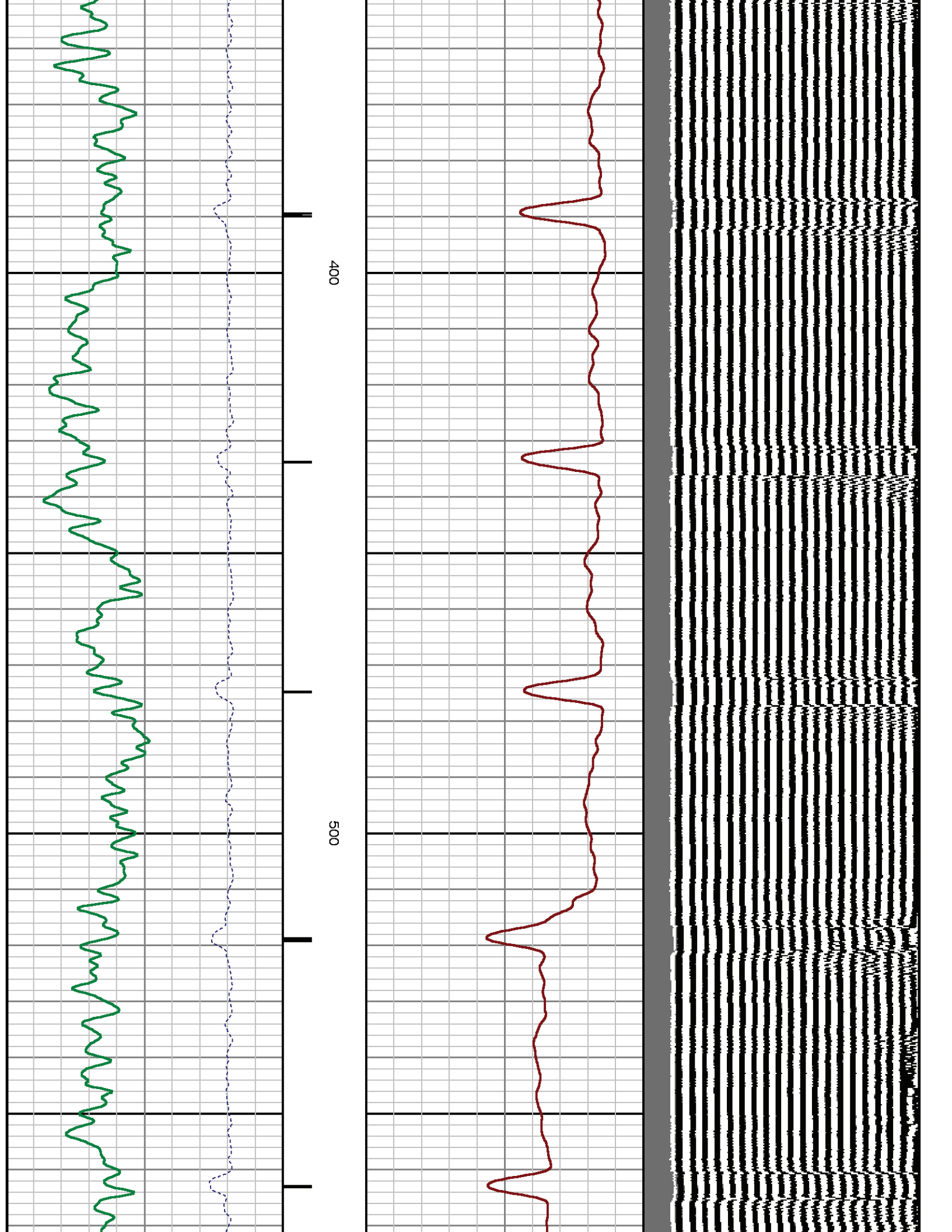
(for Acquired Curves)

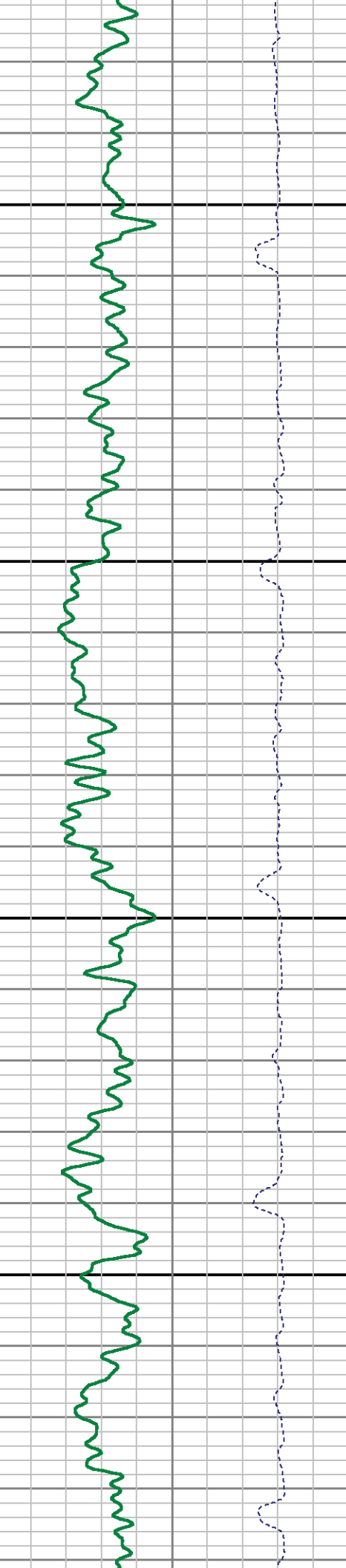
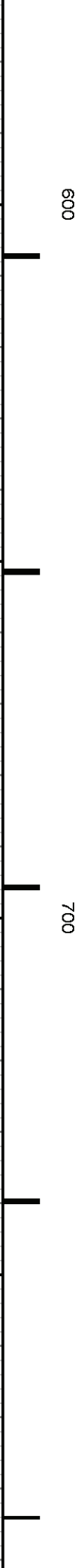
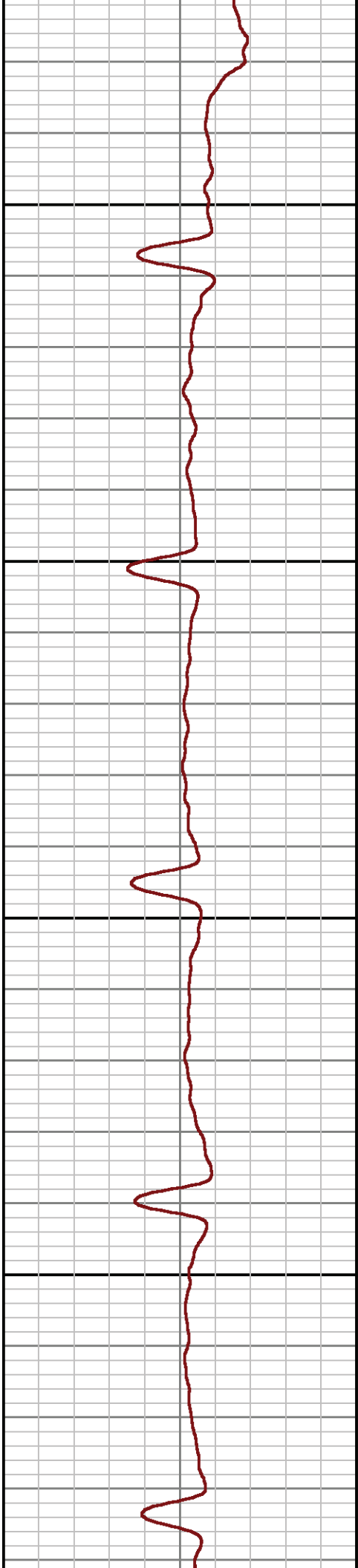
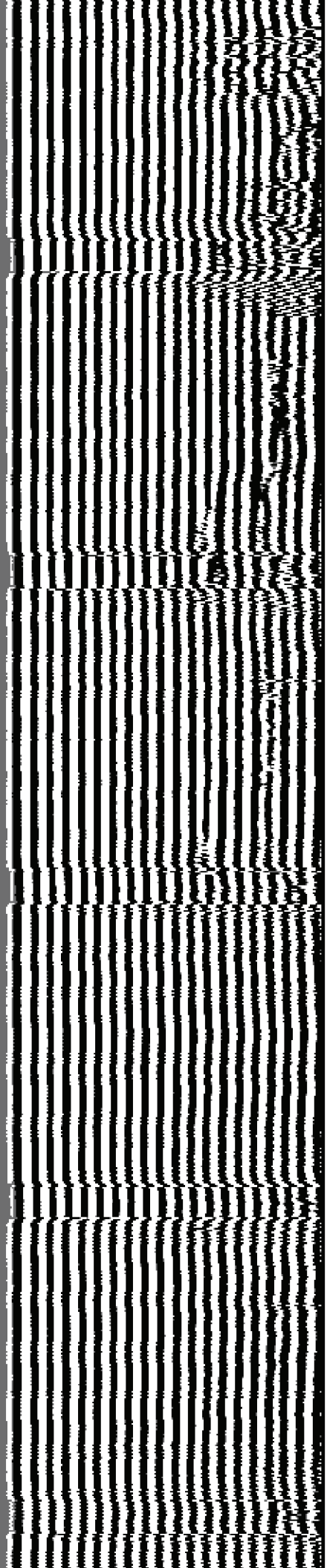
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		

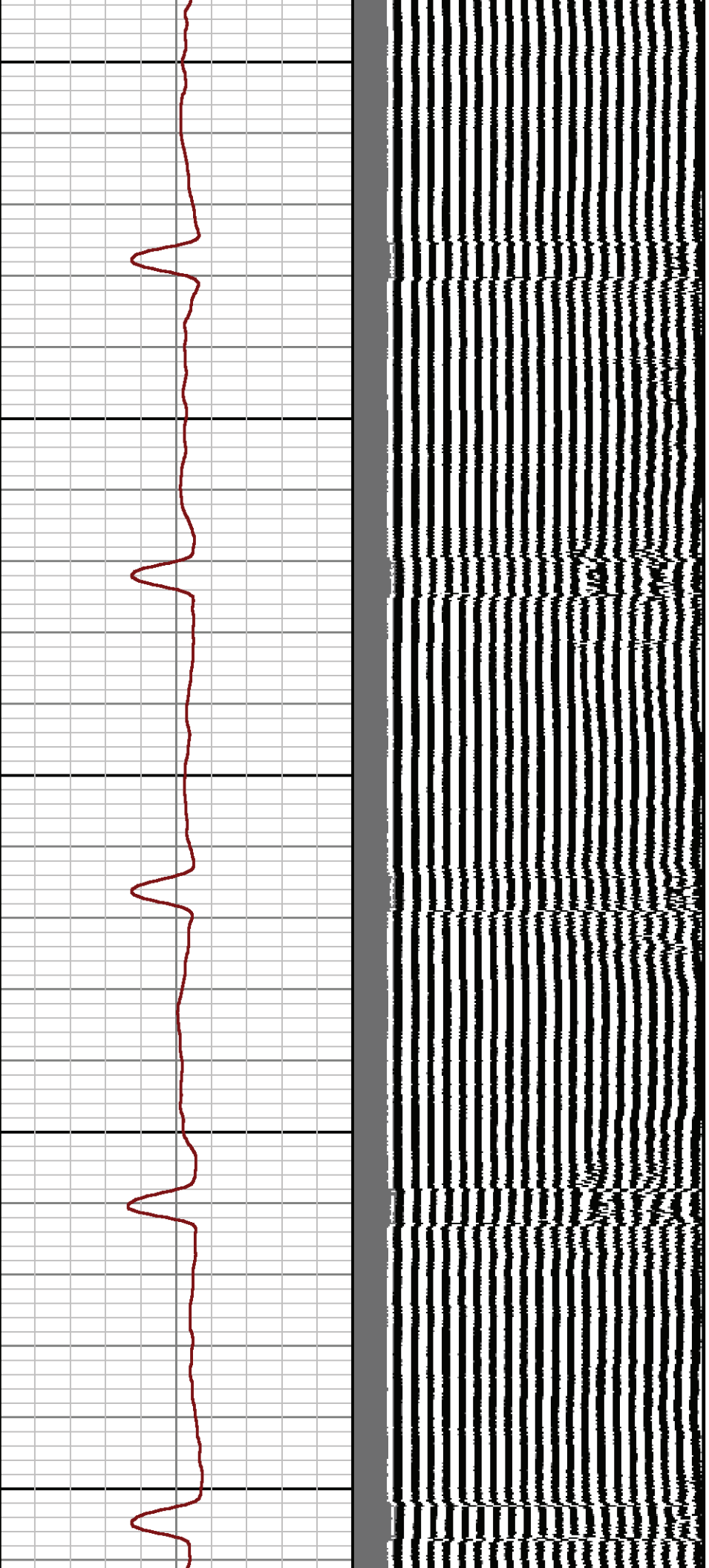
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					







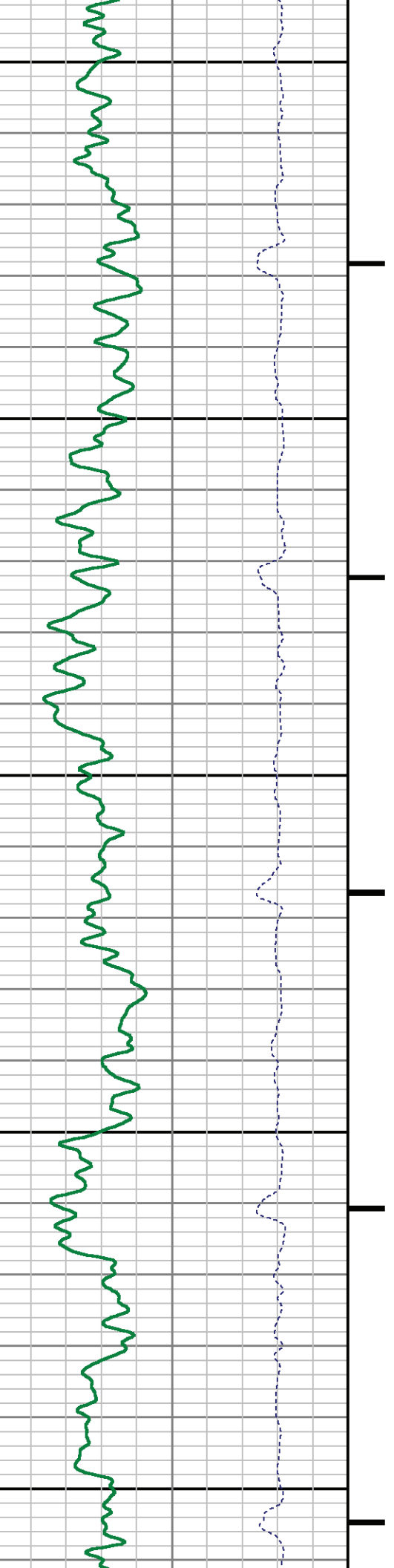


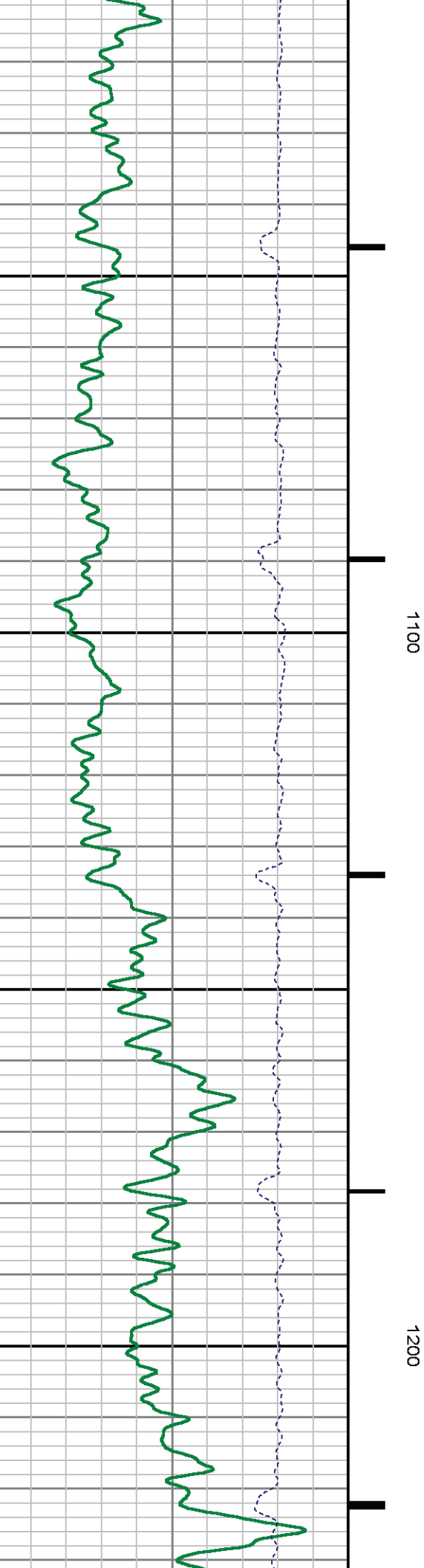
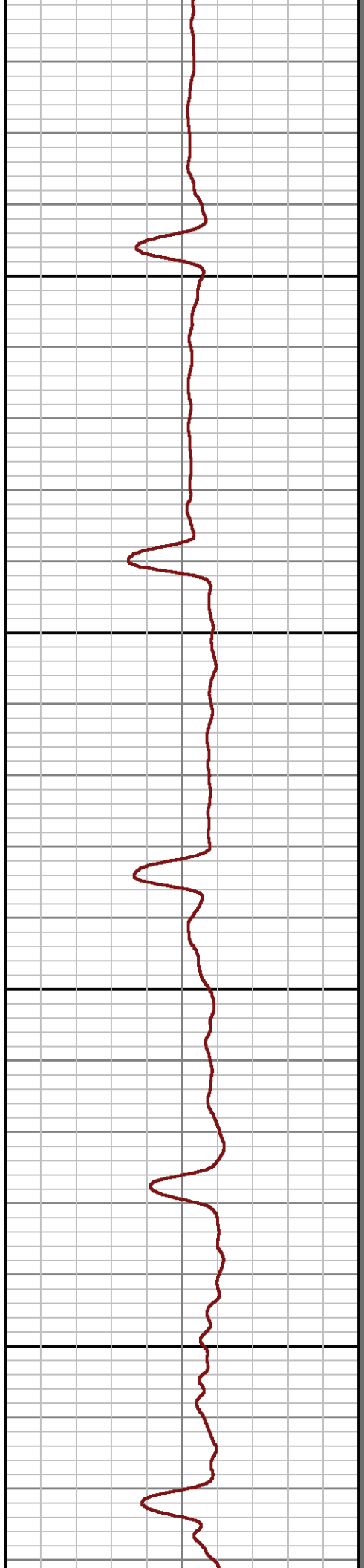
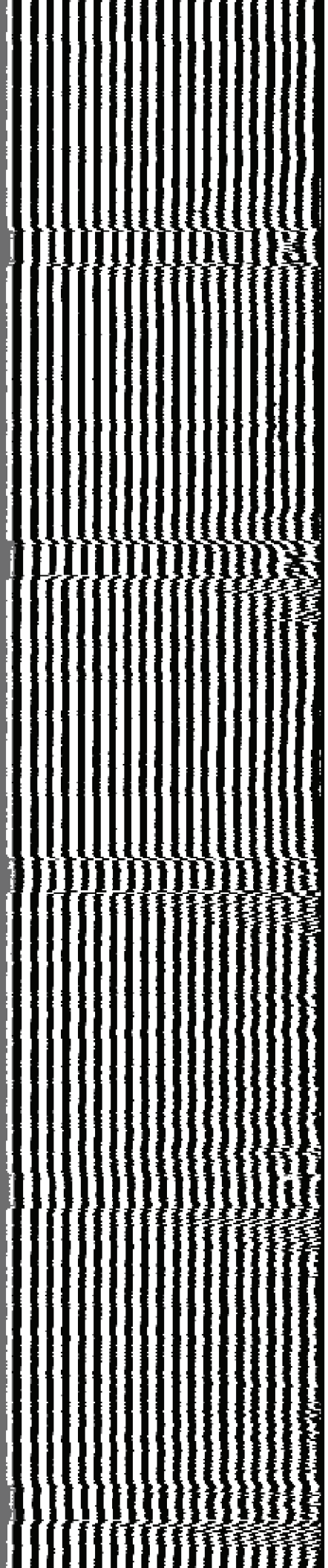


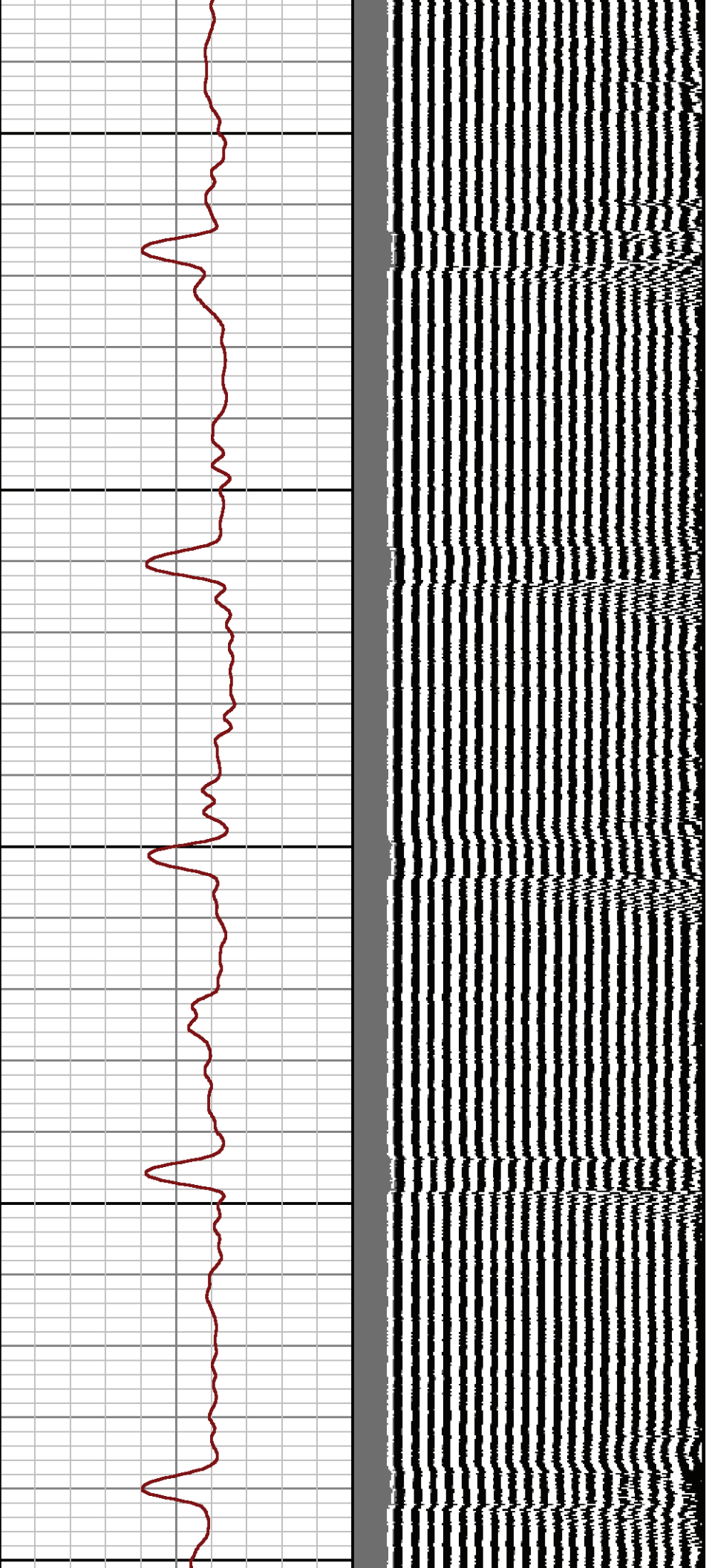
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900

1000

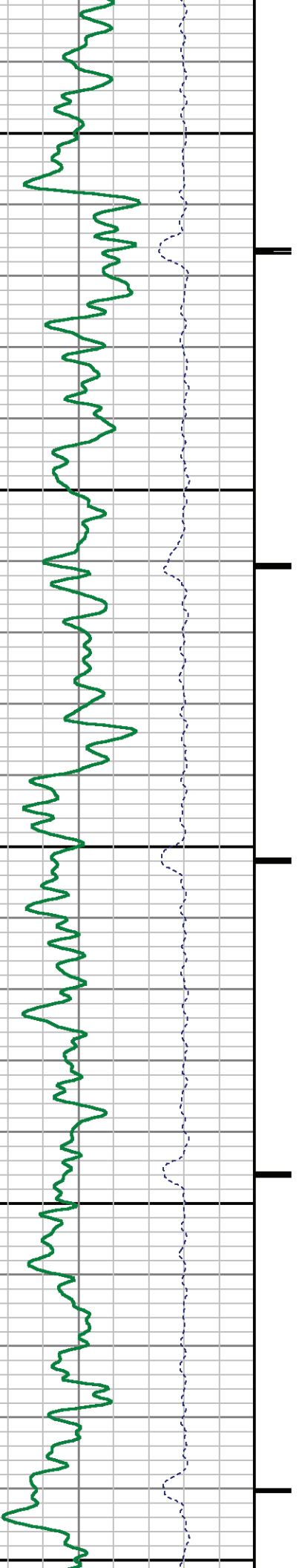


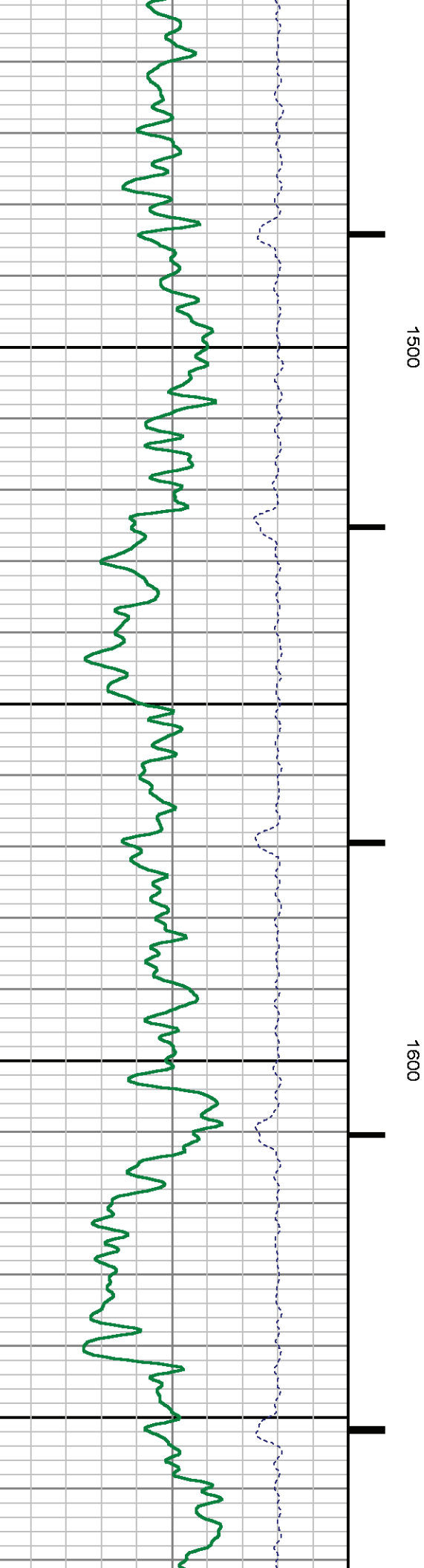
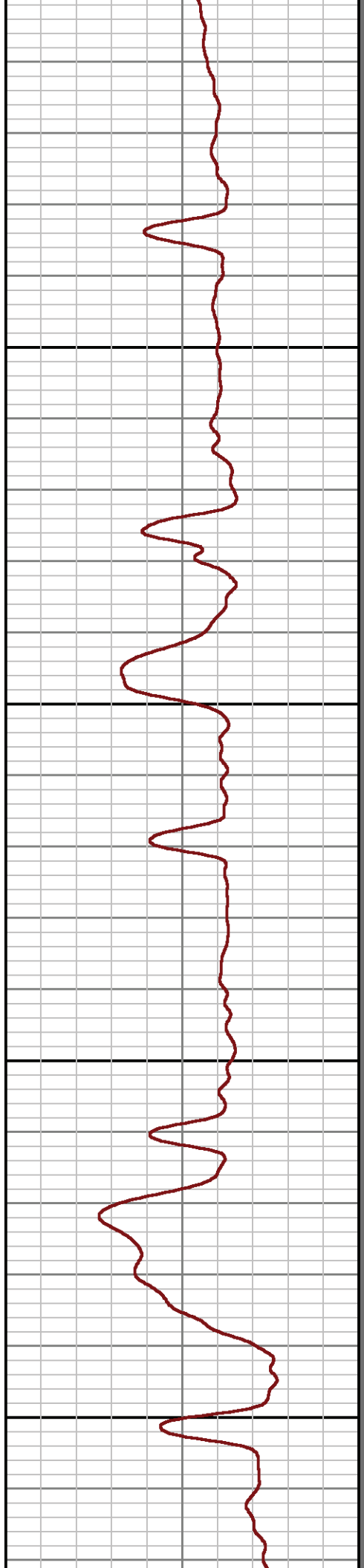
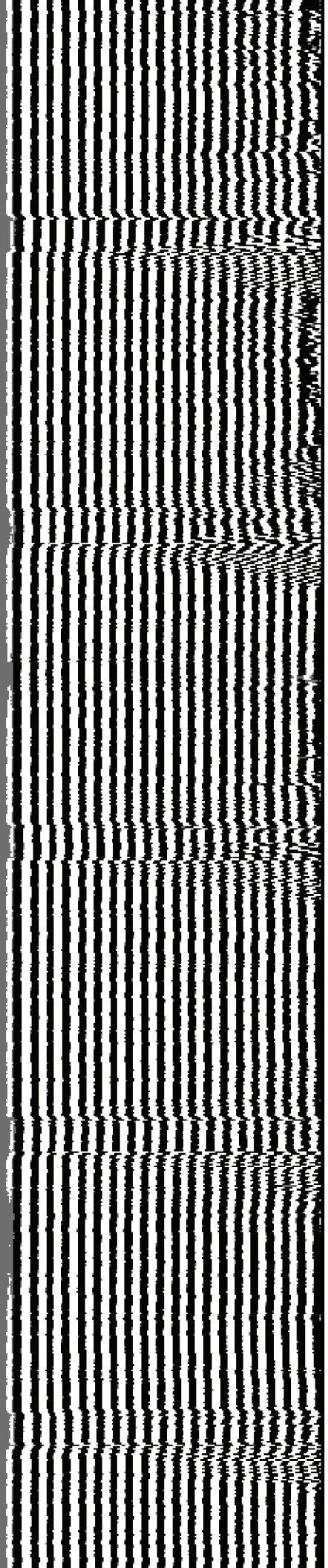


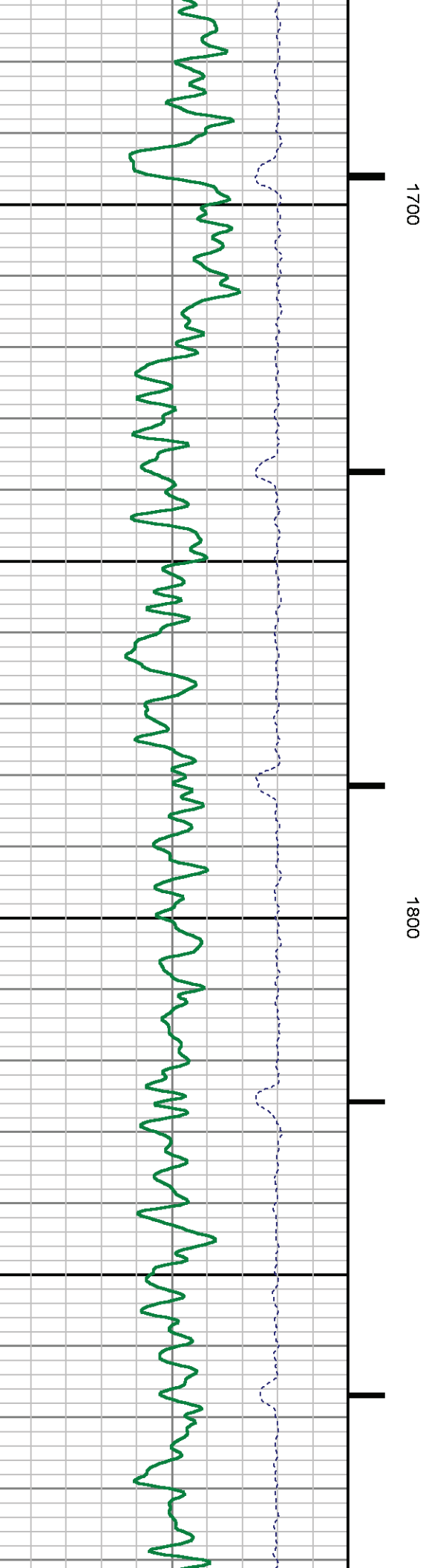
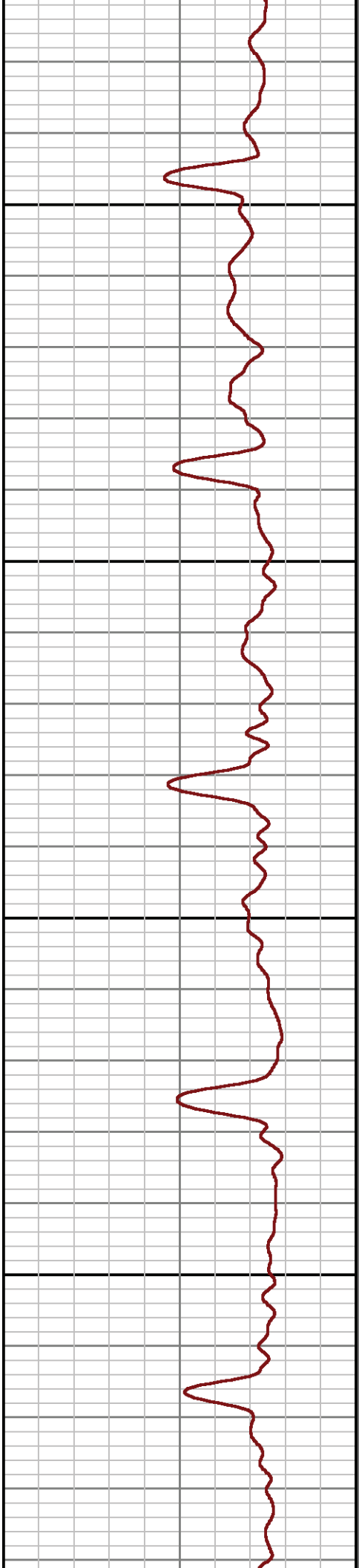
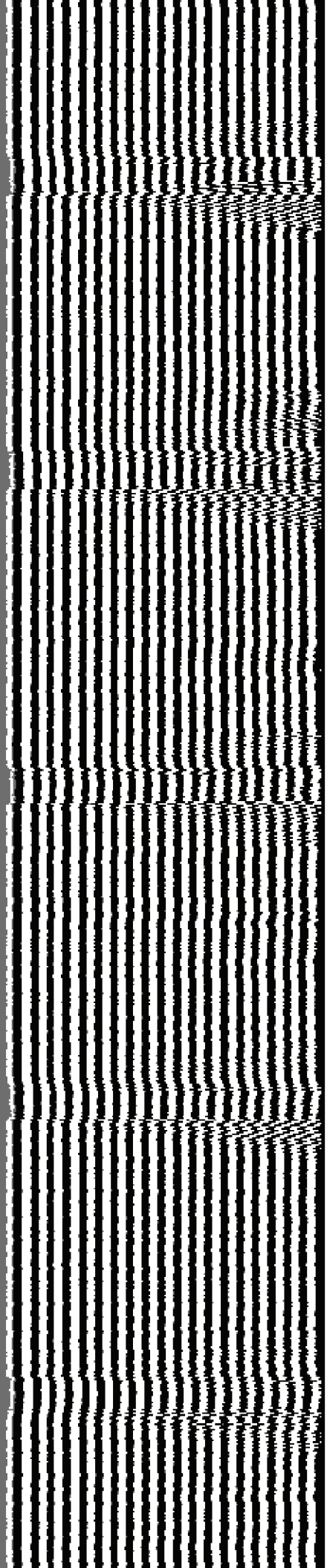


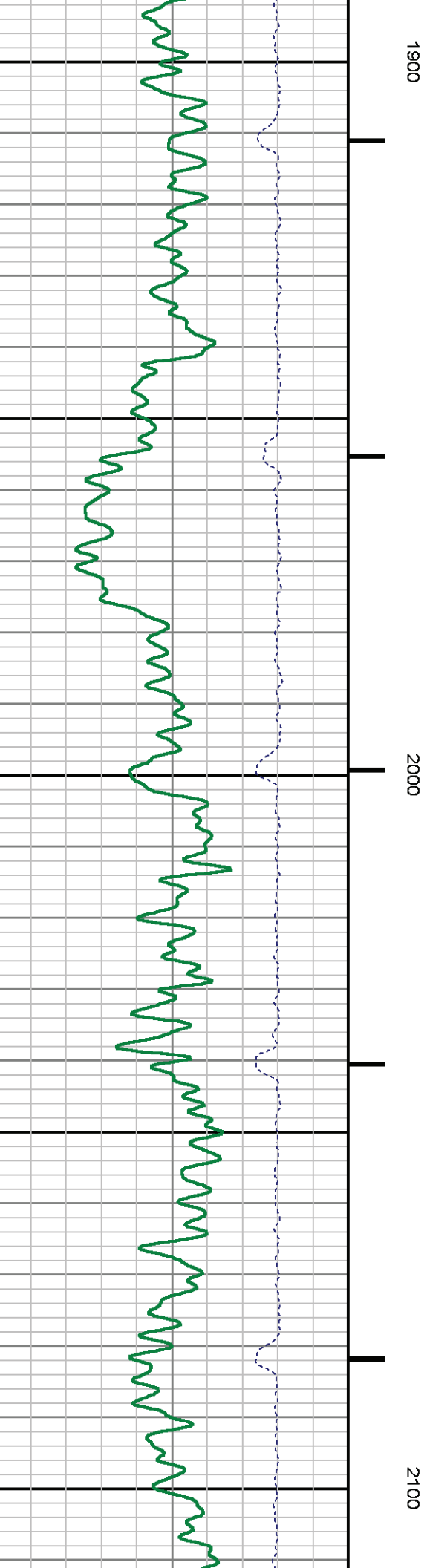
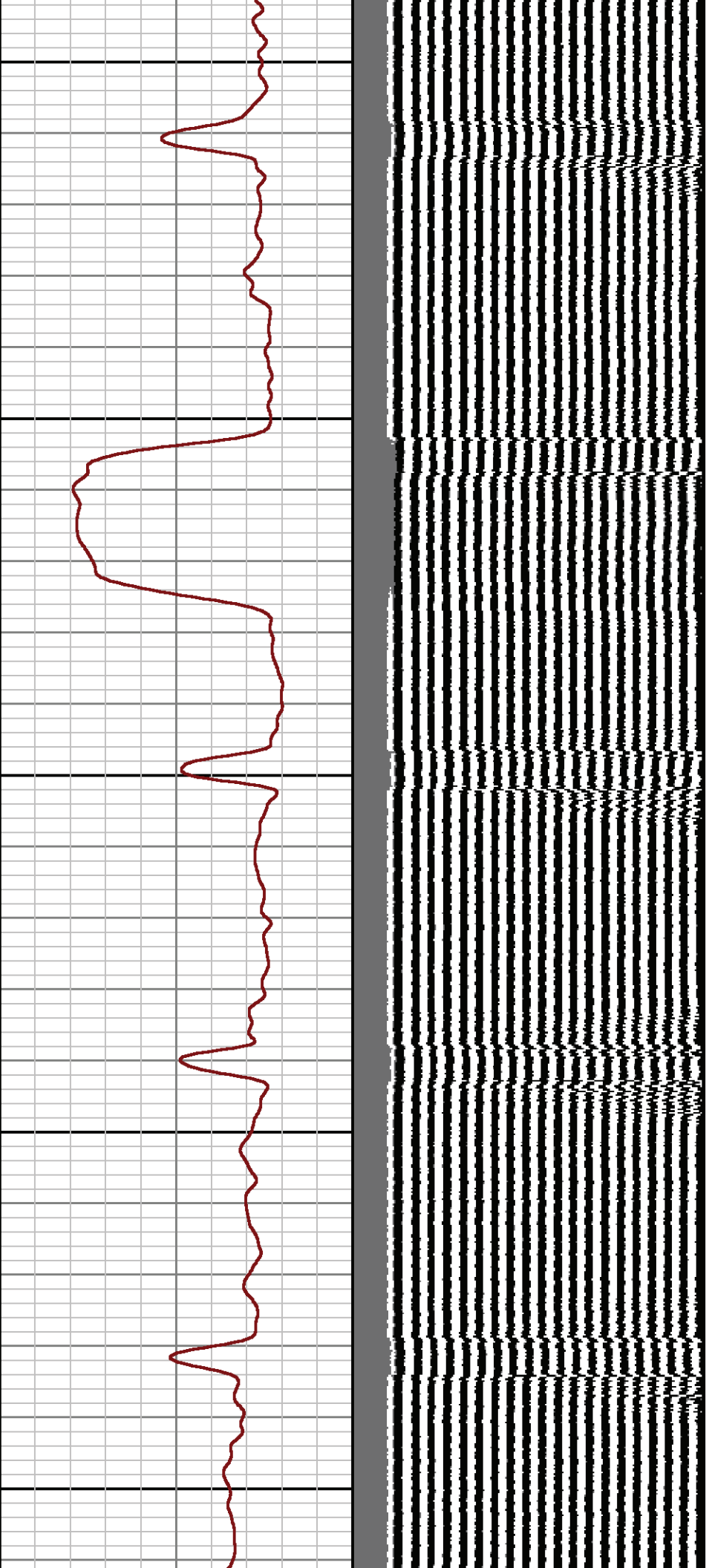
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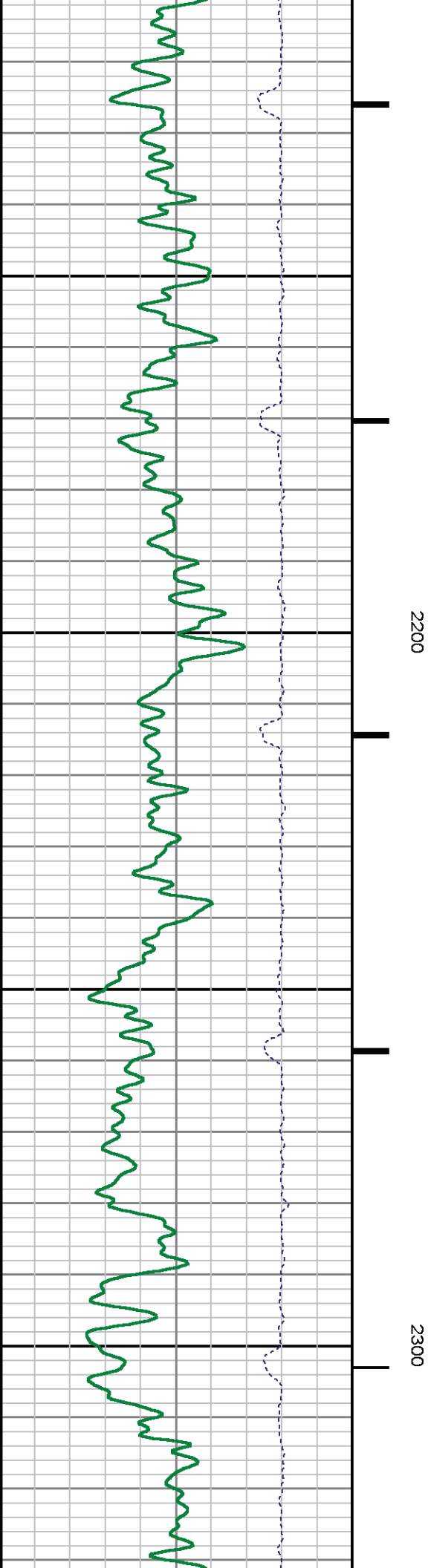
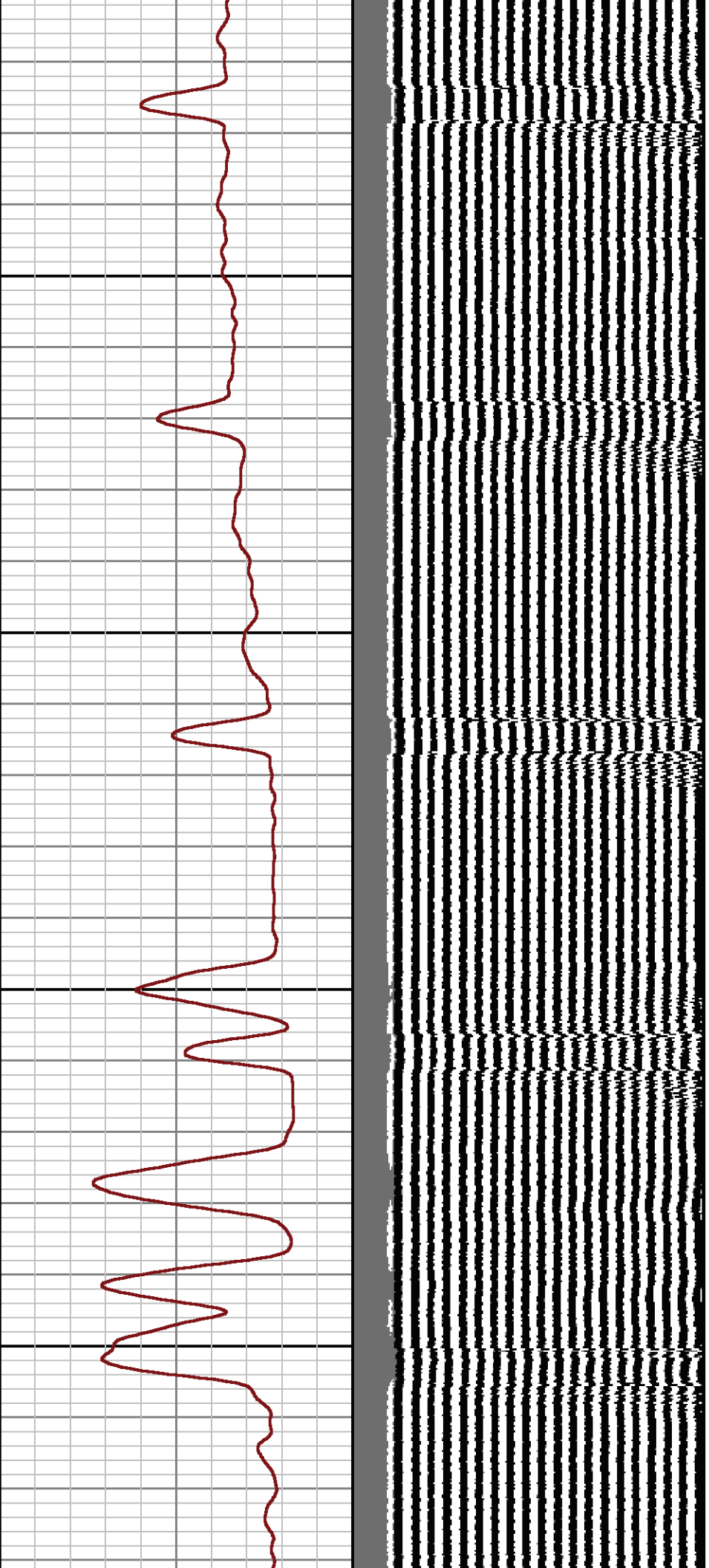
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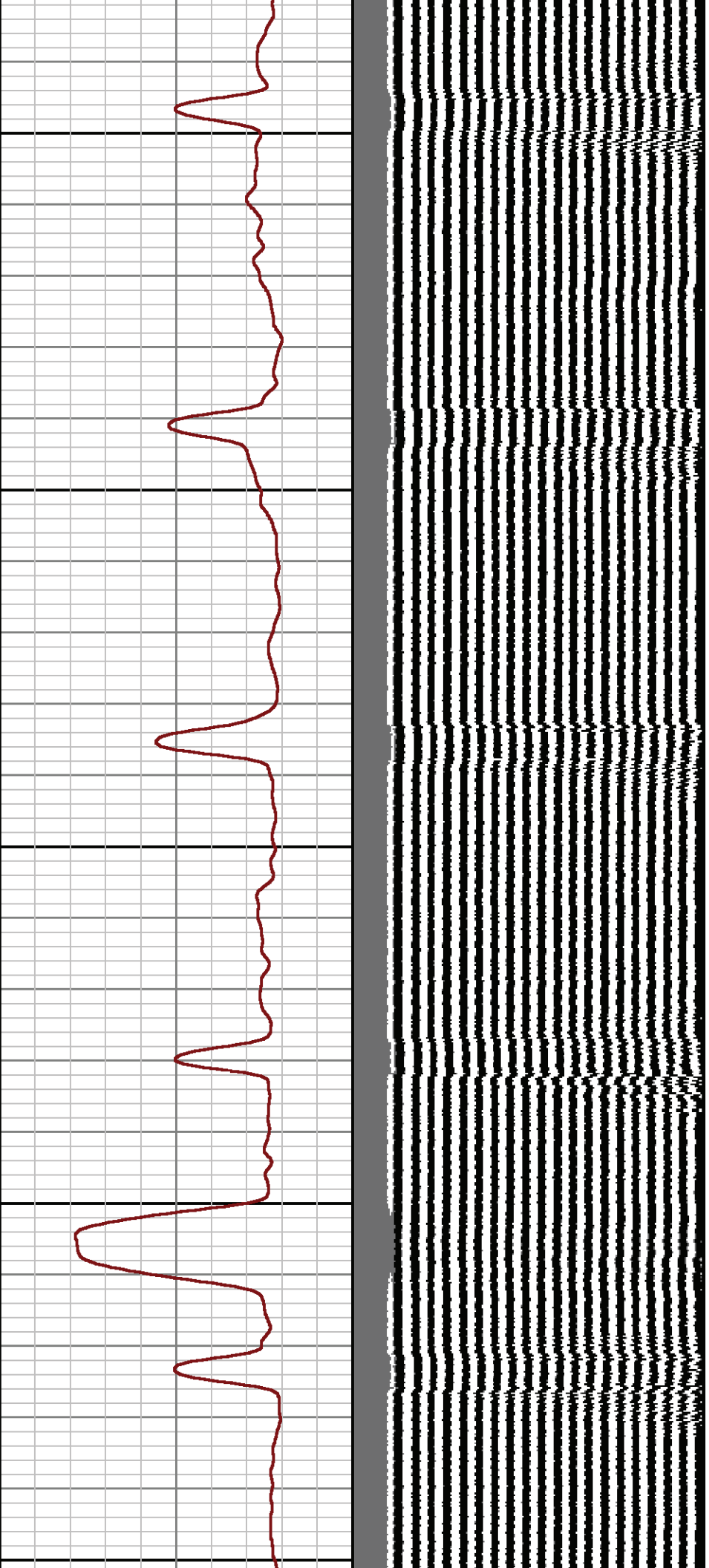






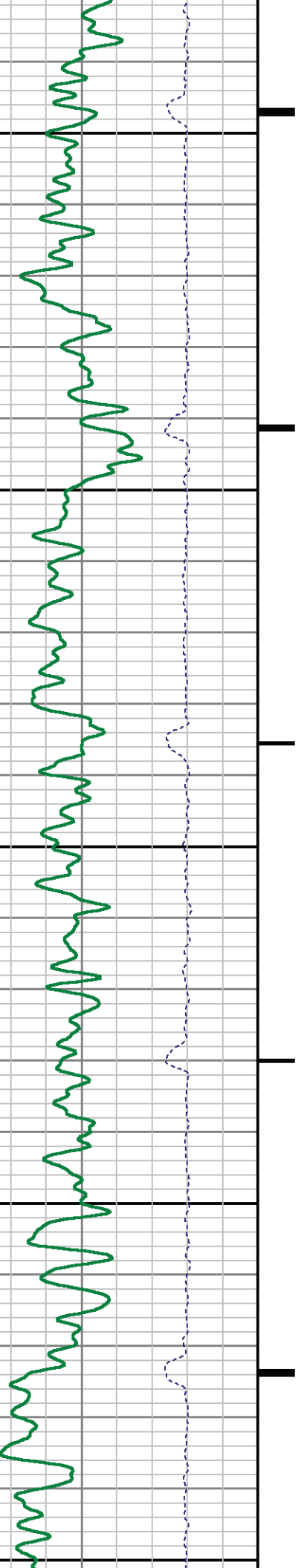


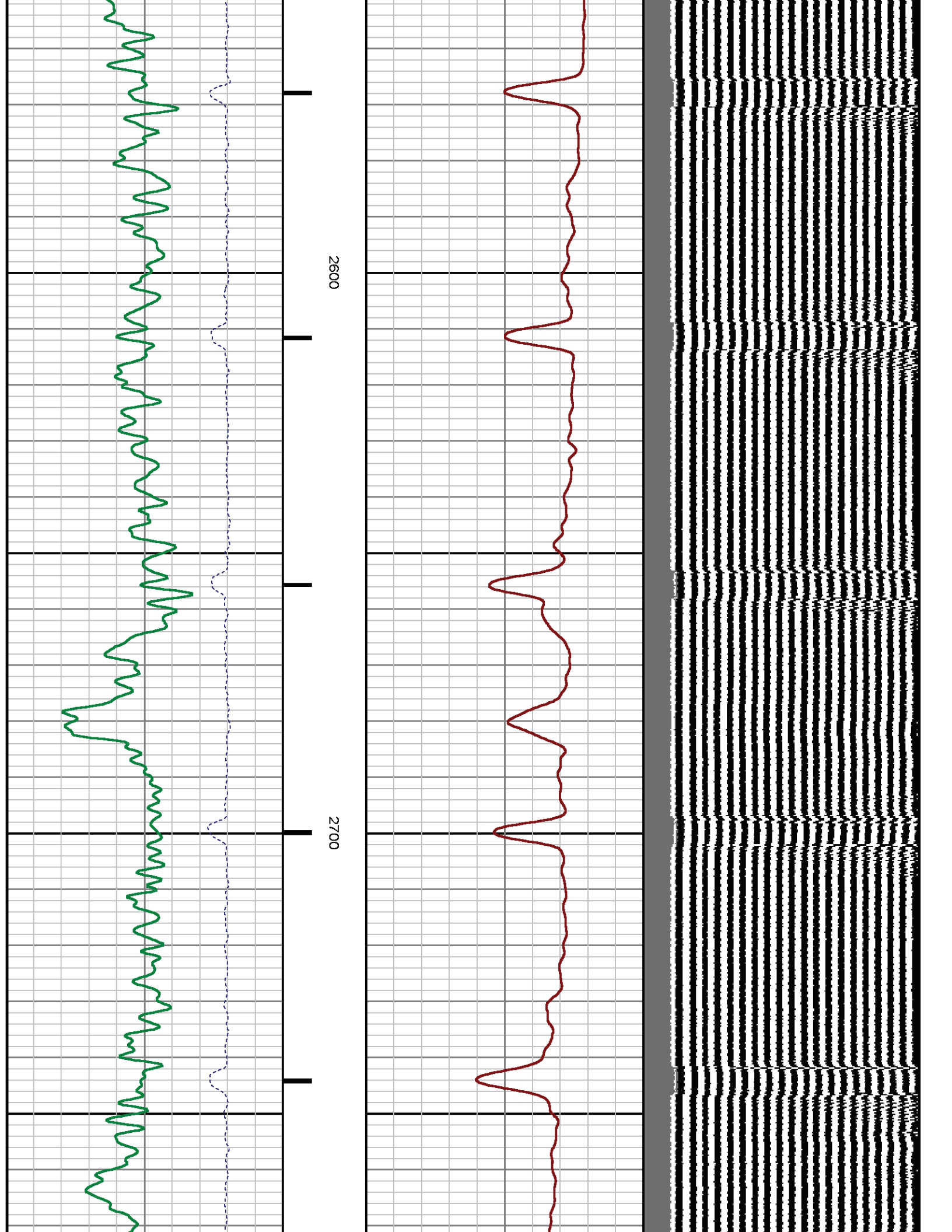


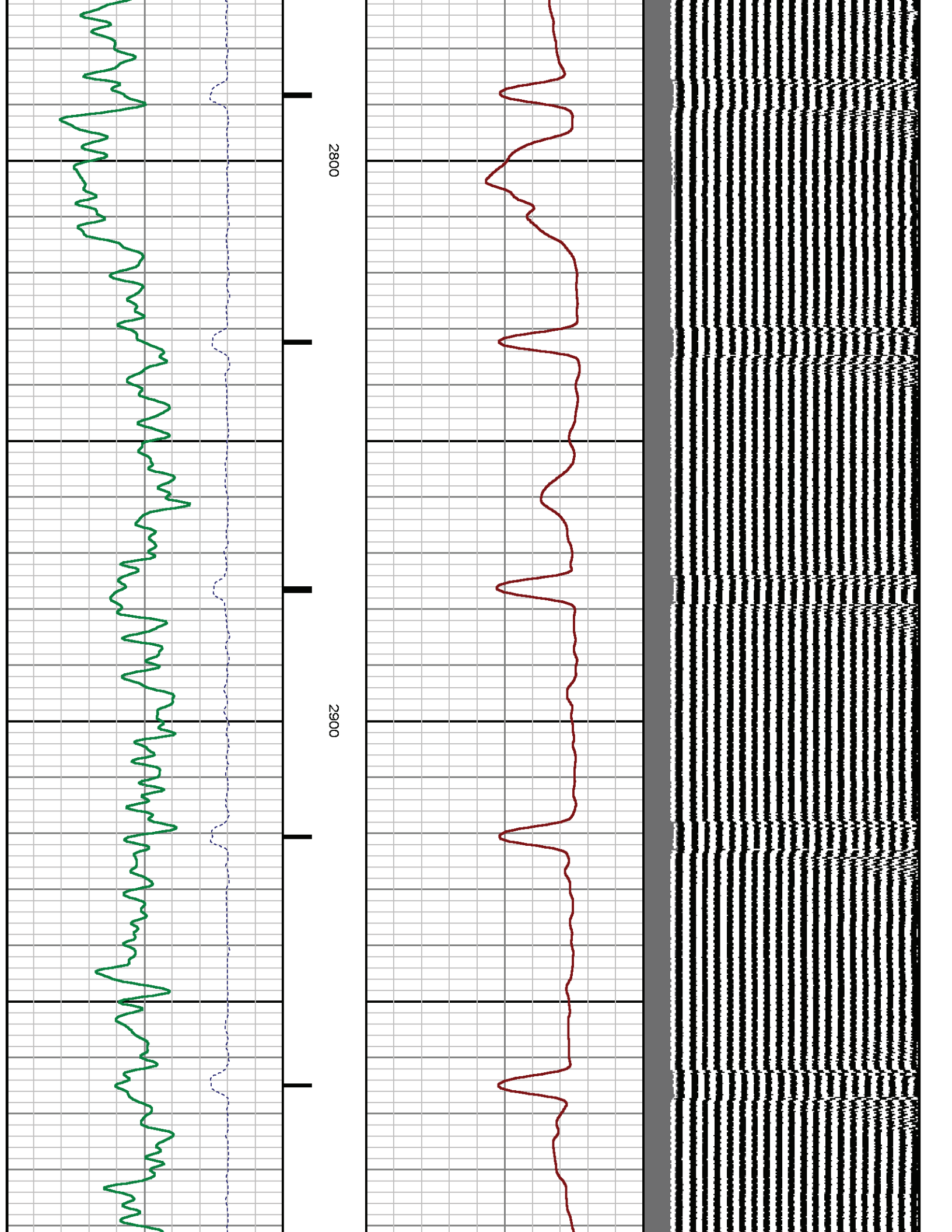


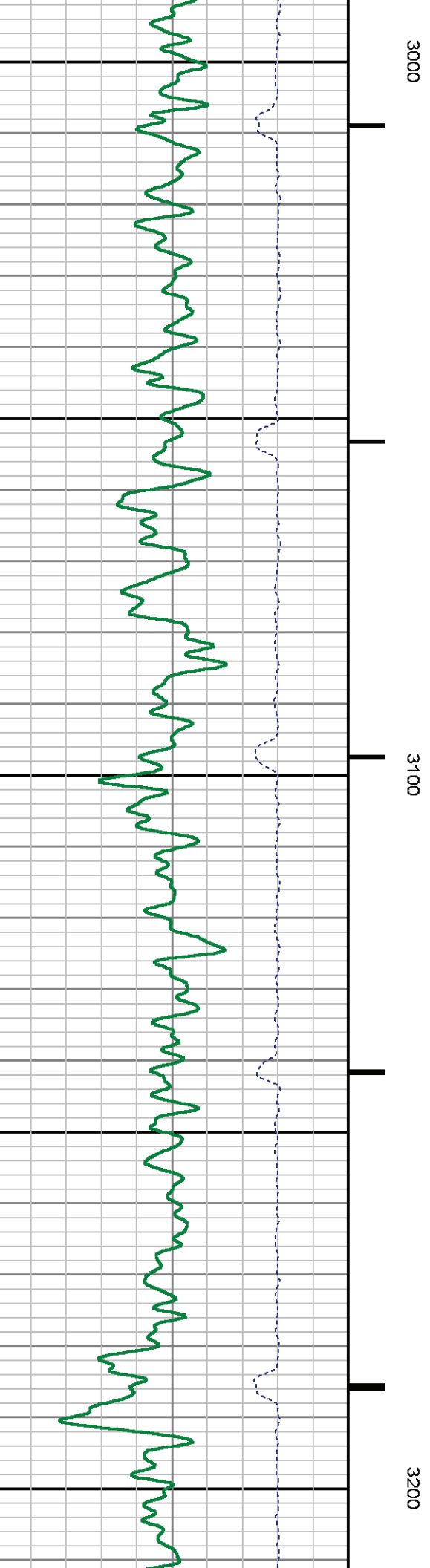
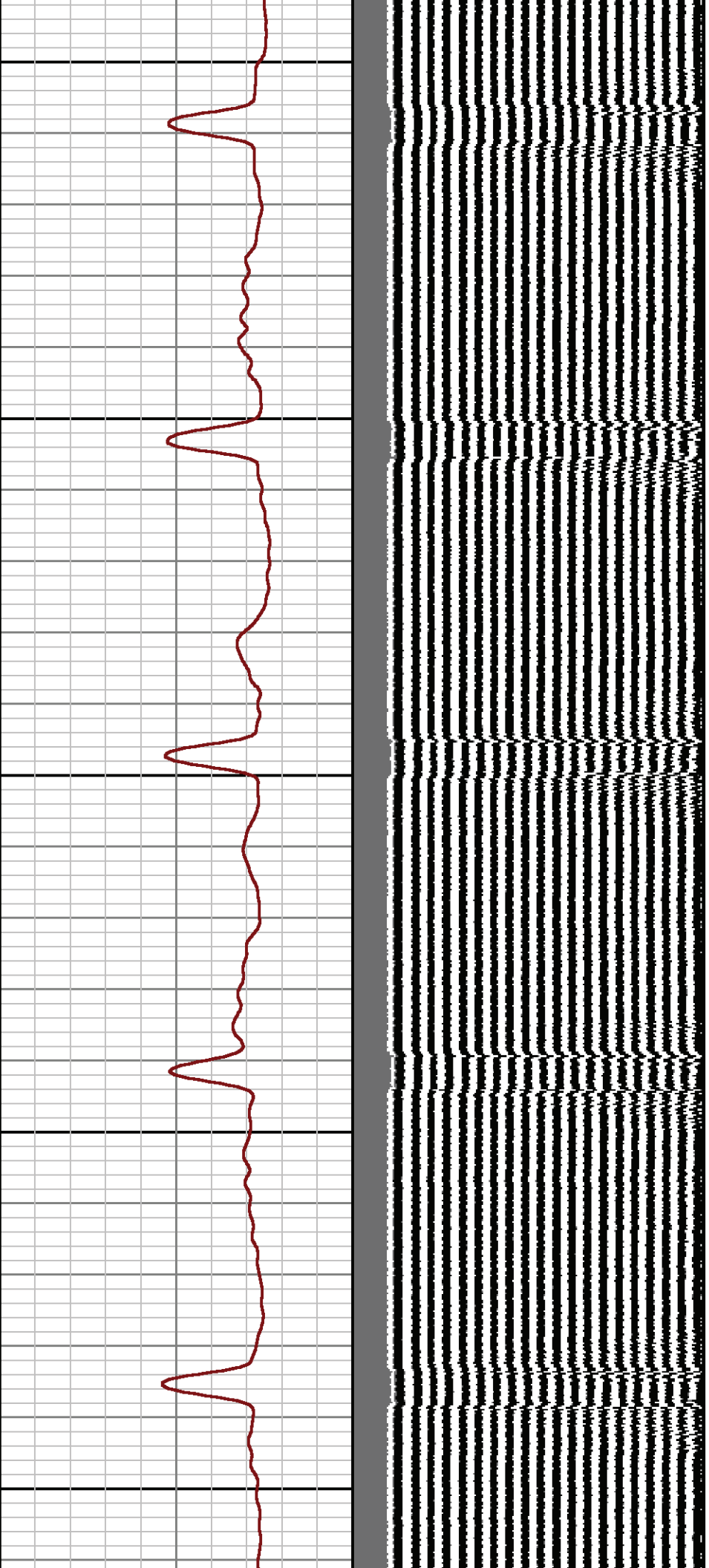
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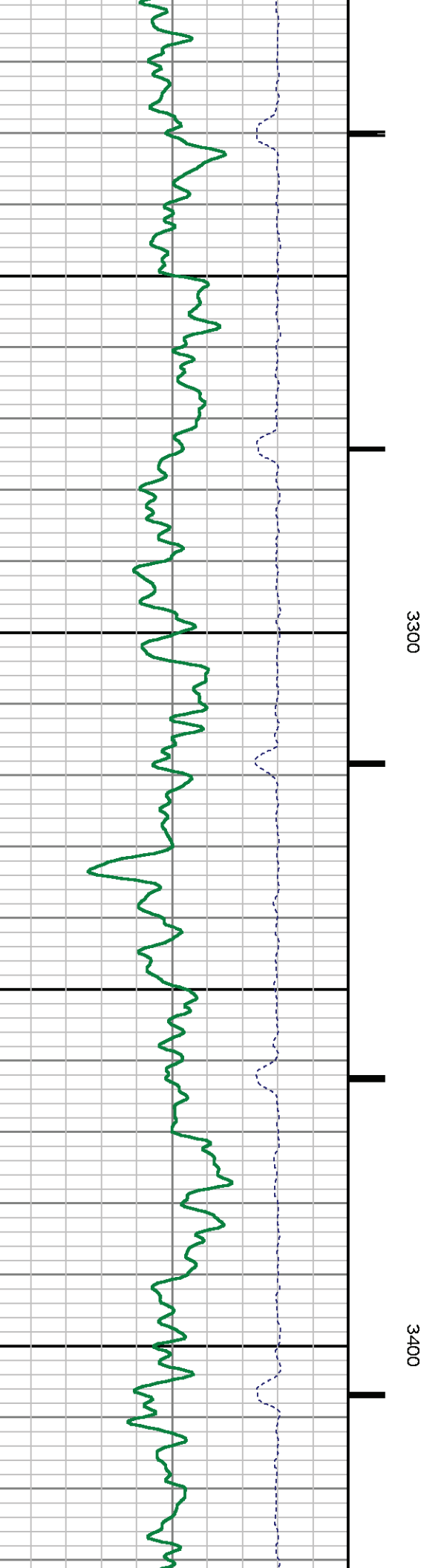
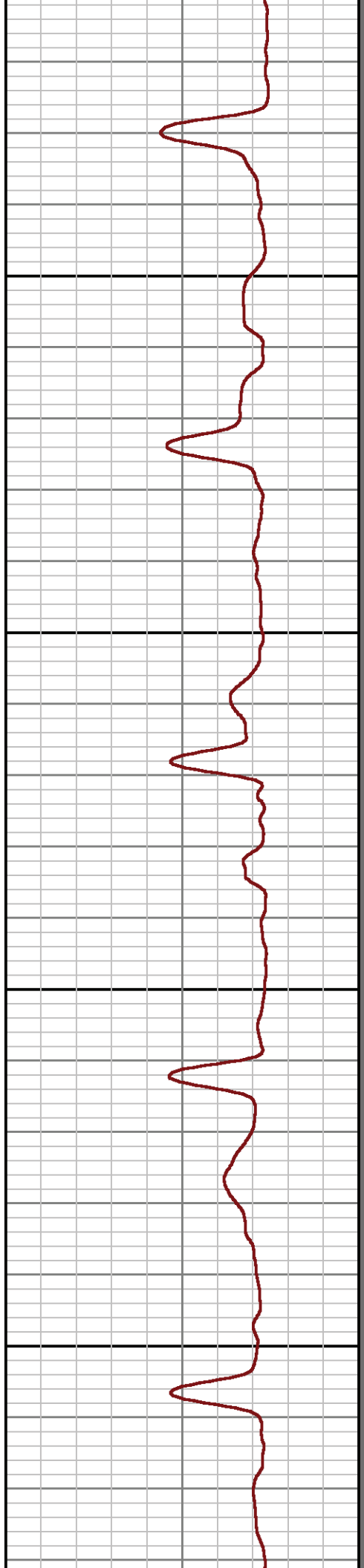
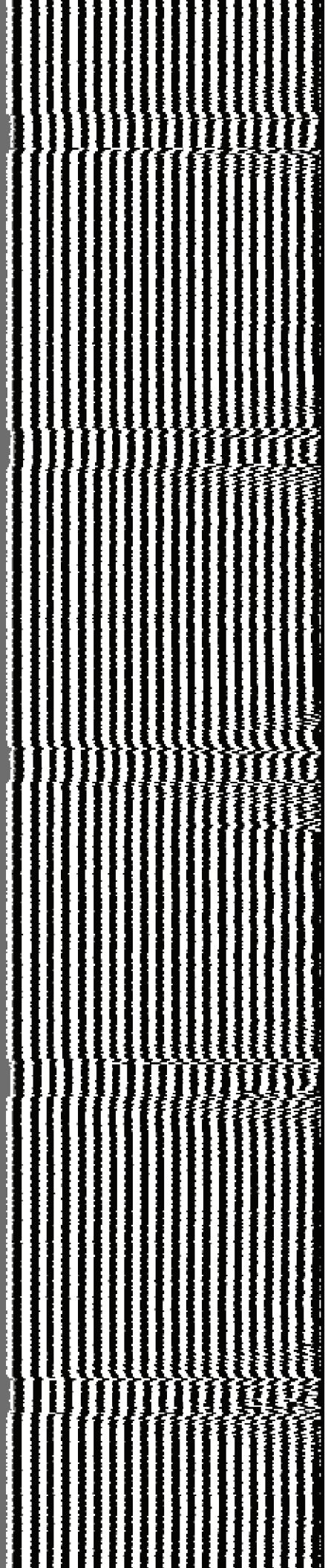
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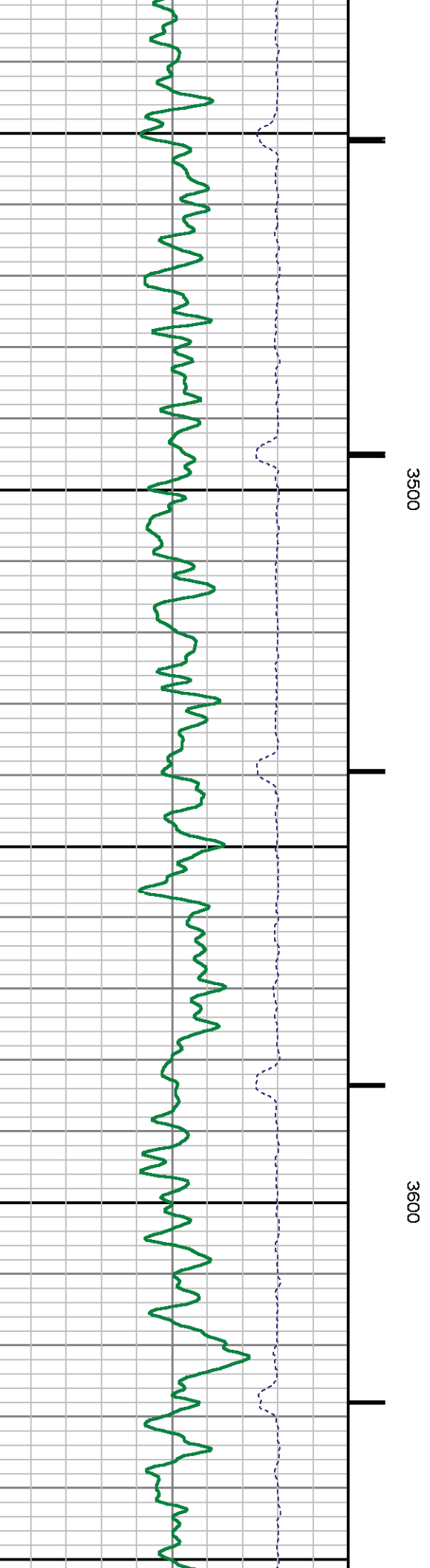
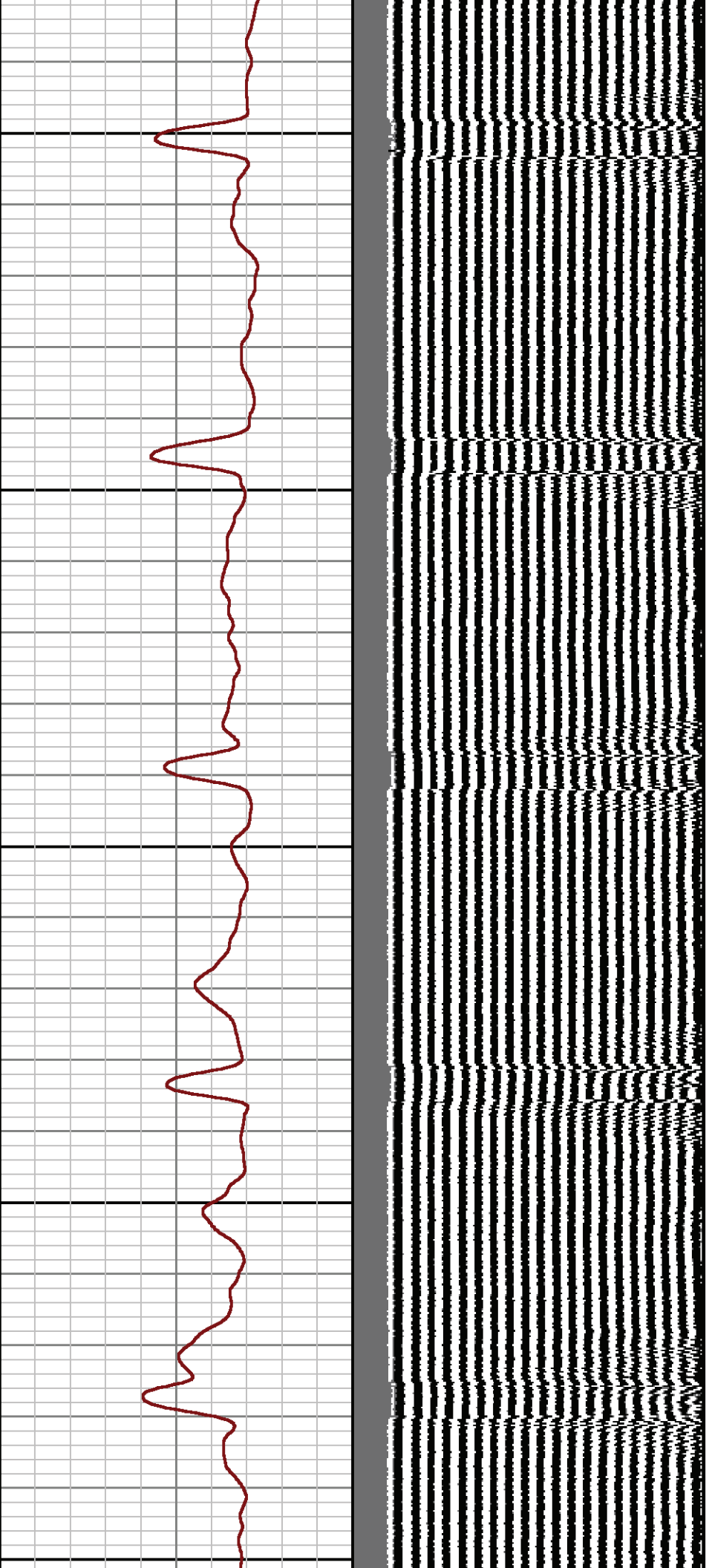


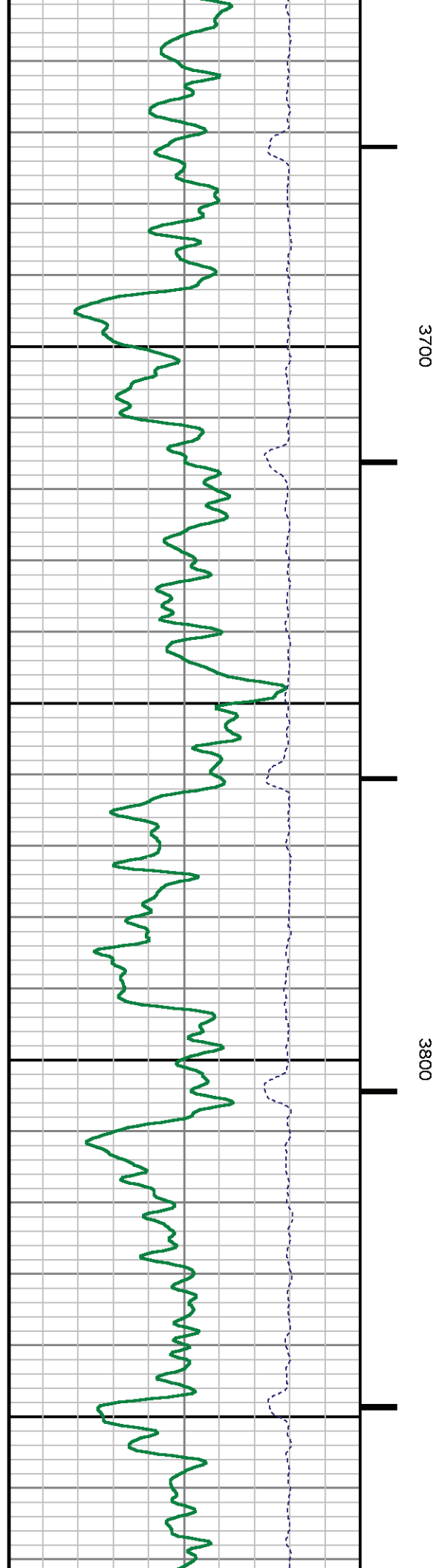
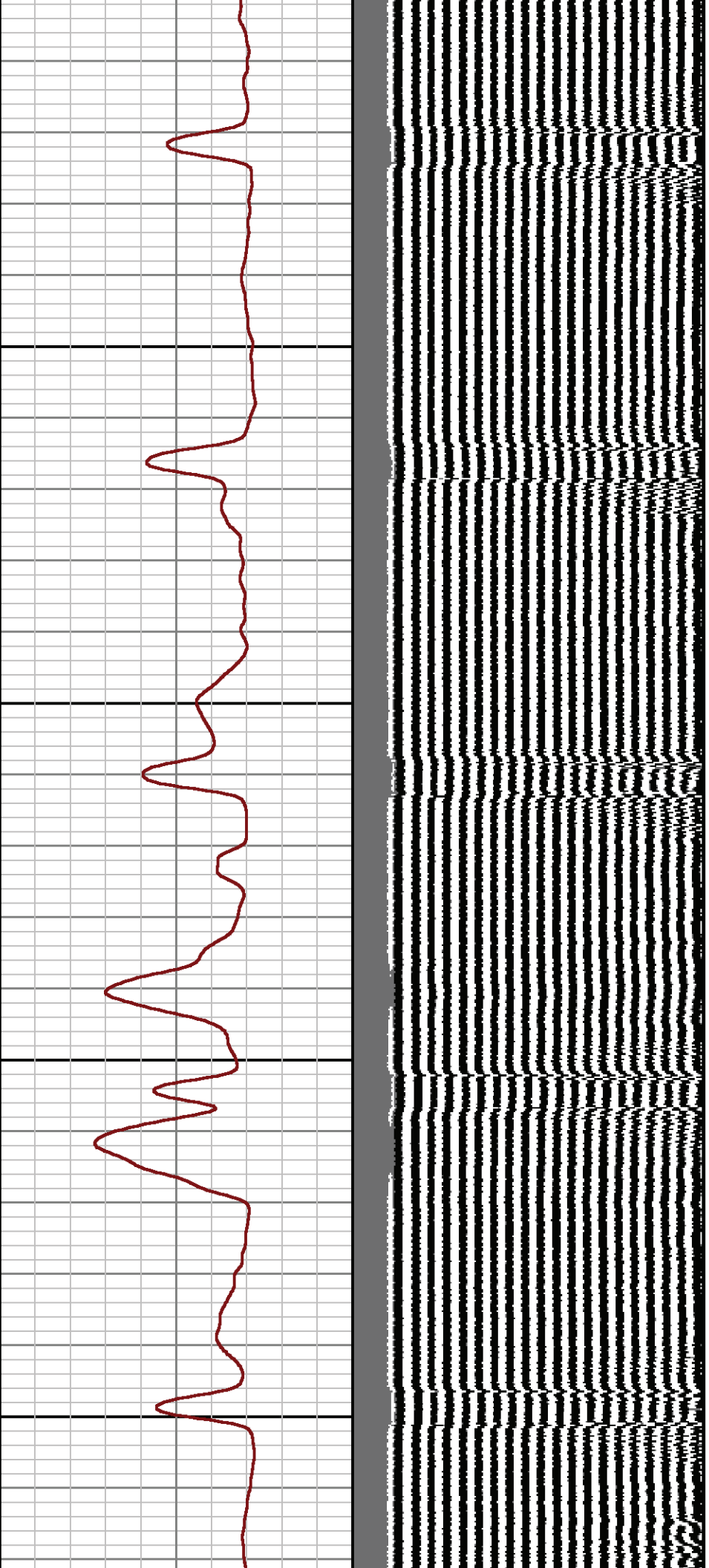


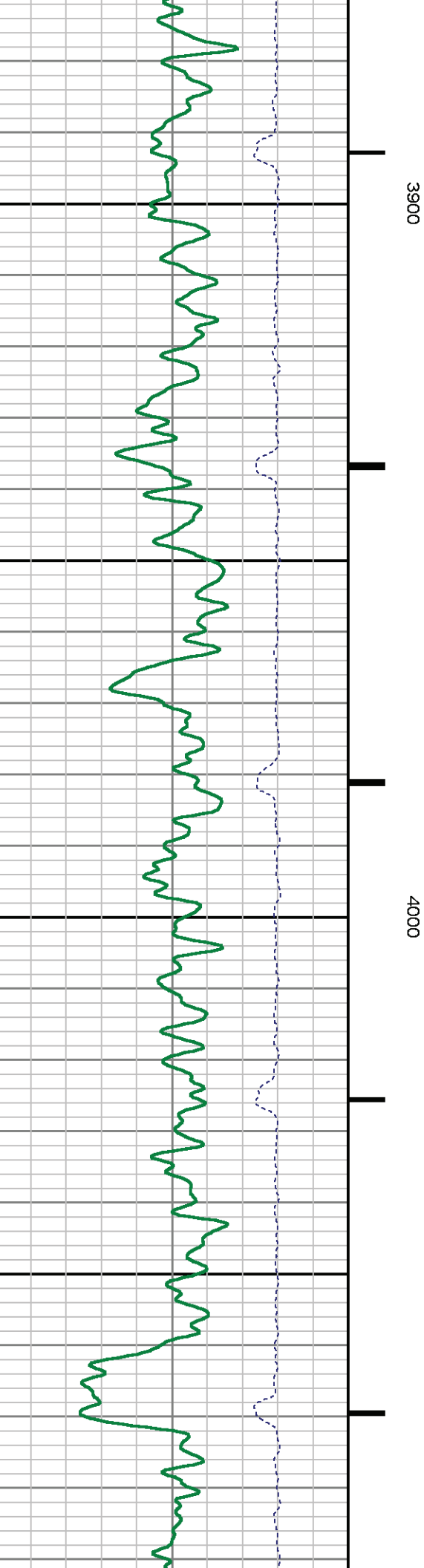
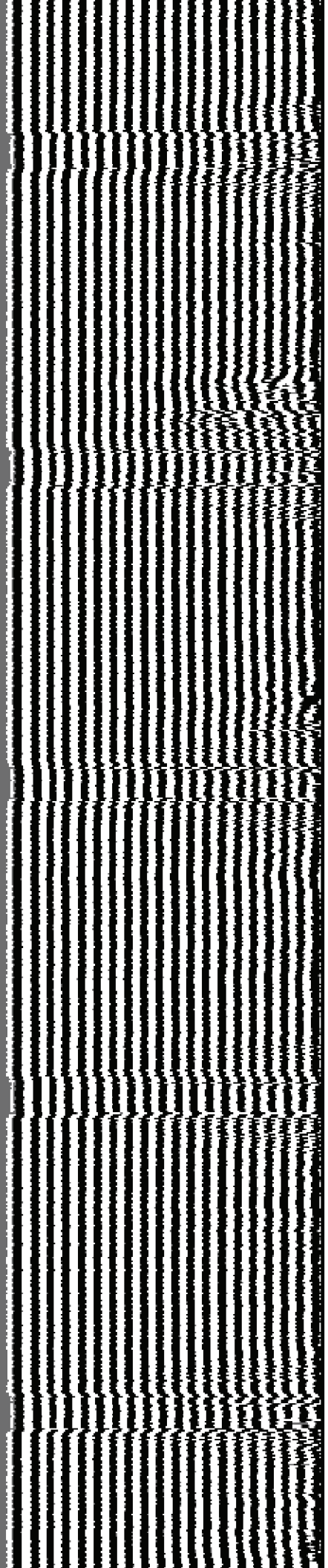


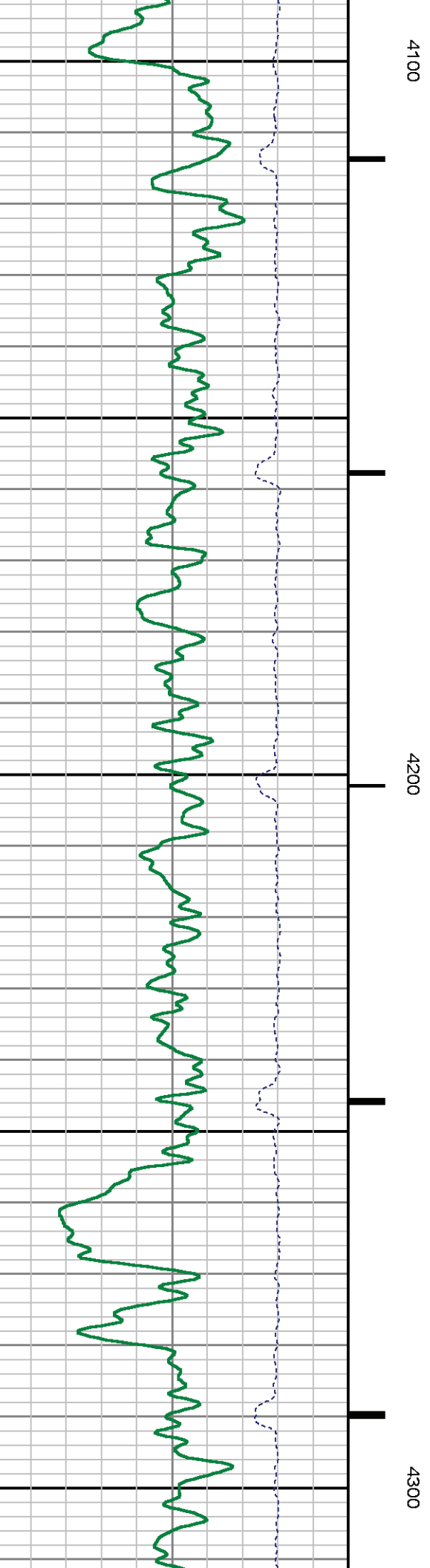
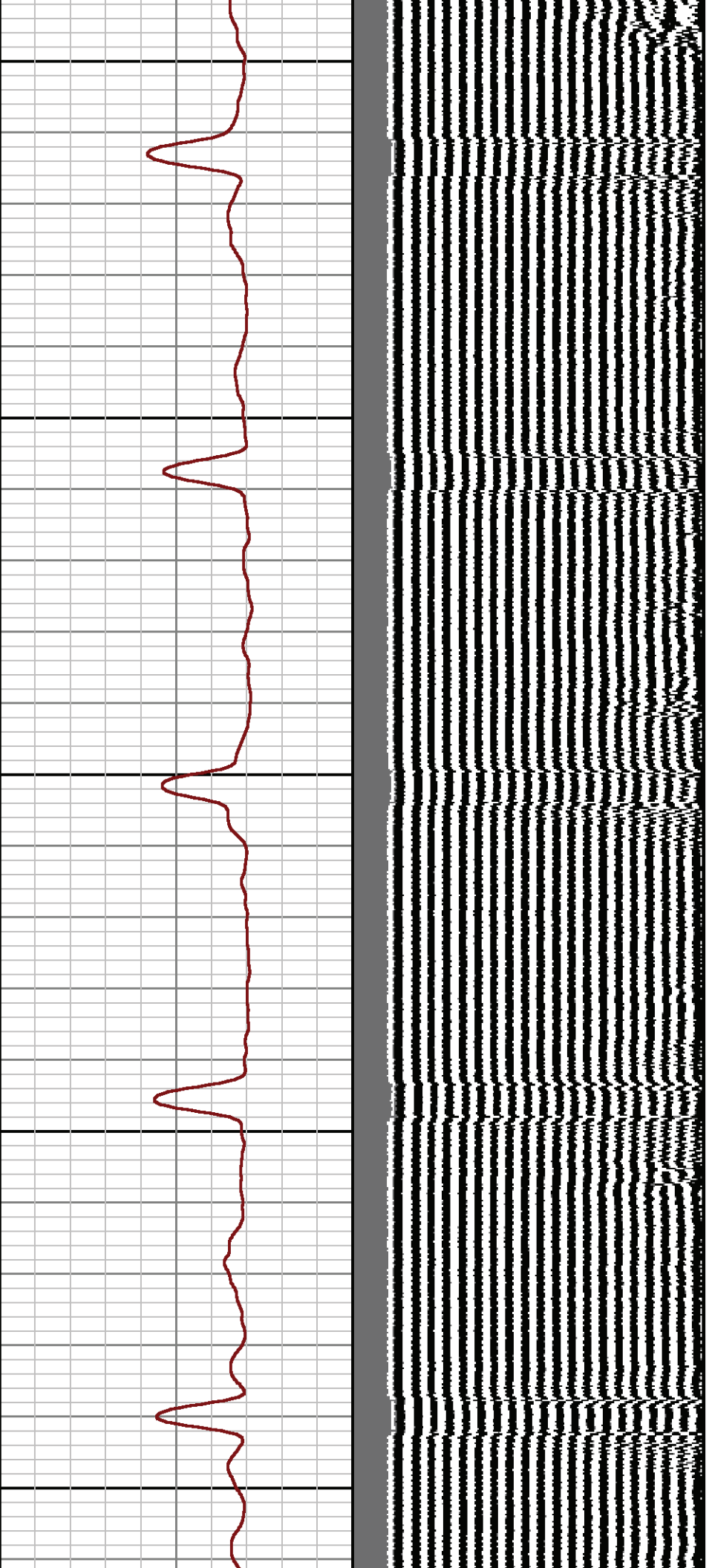


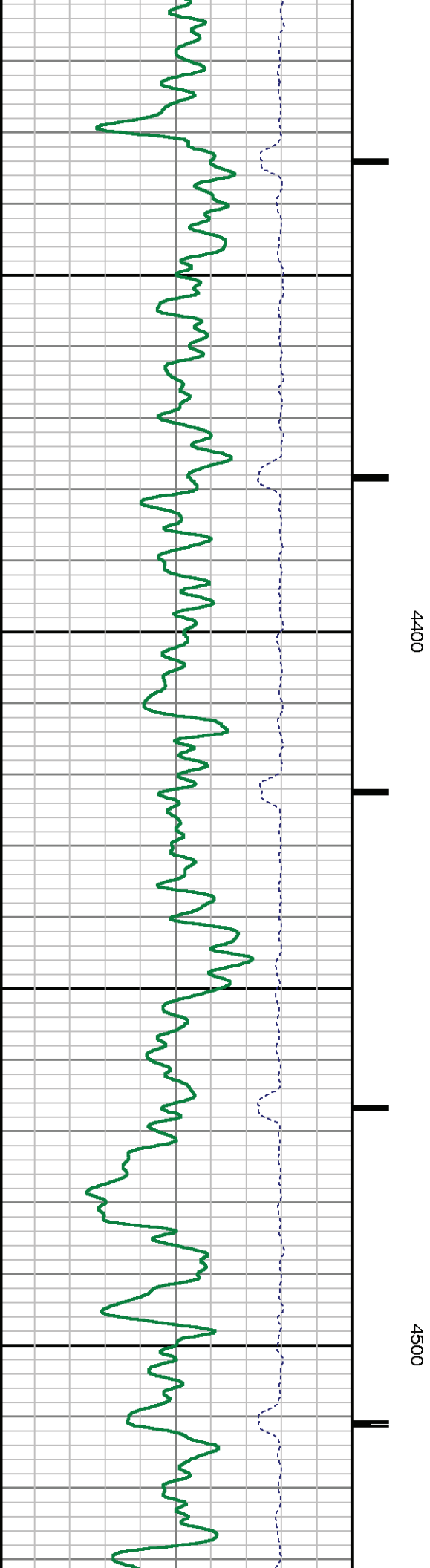
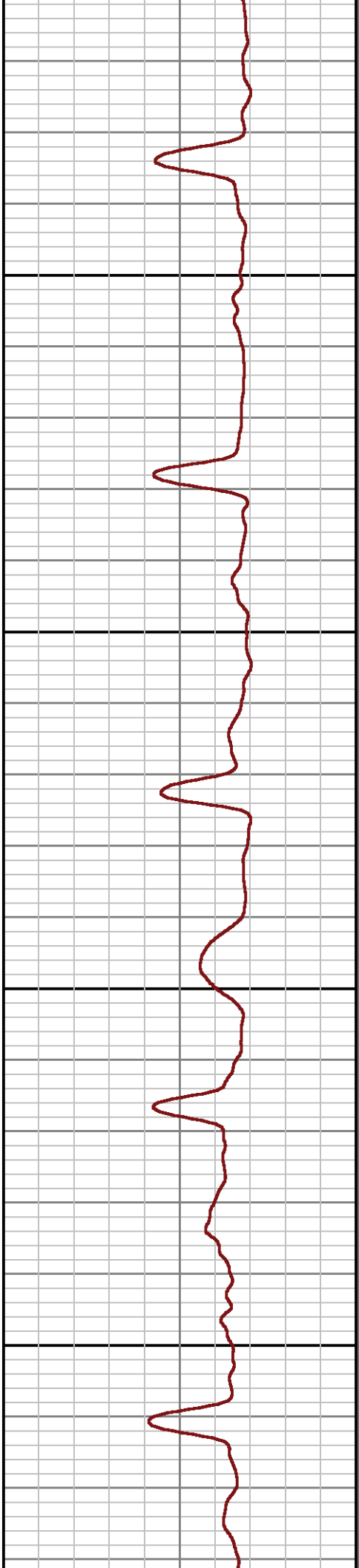
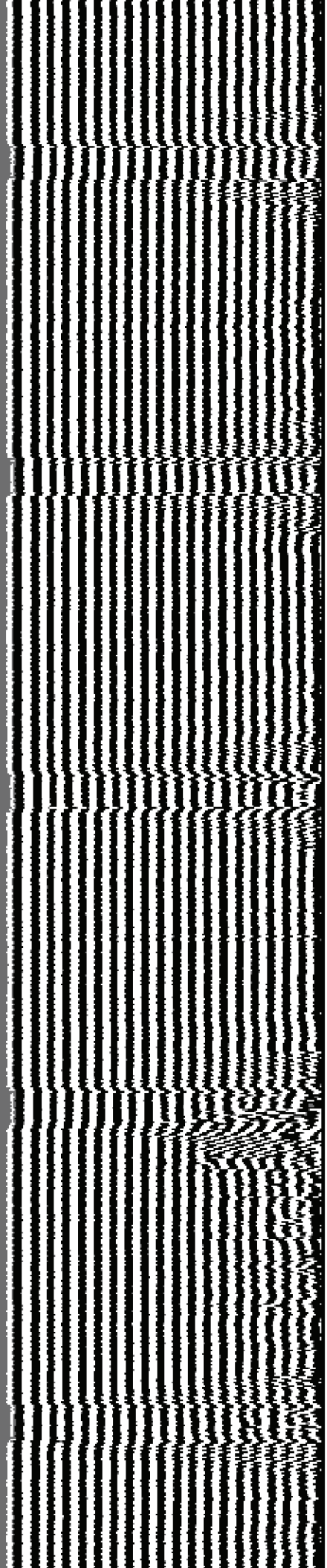


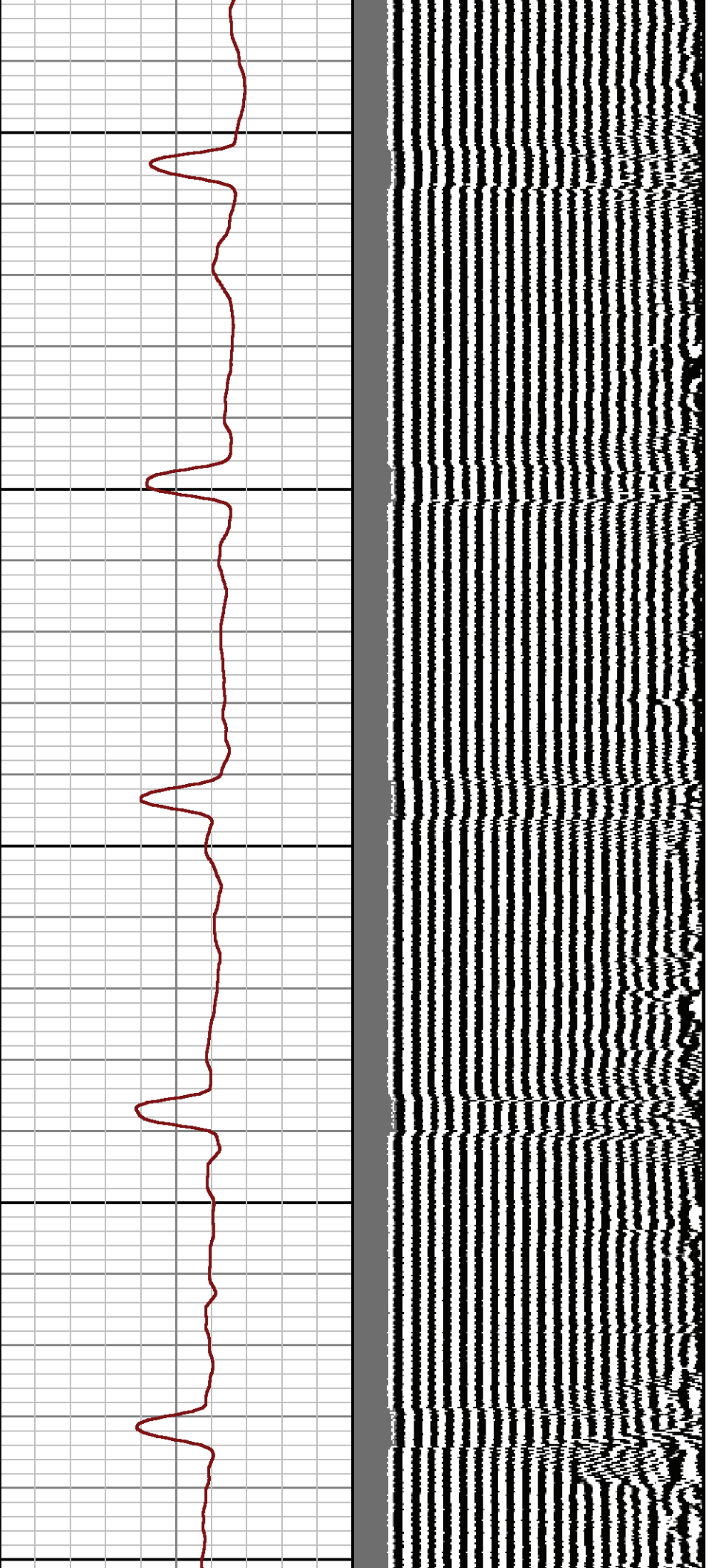






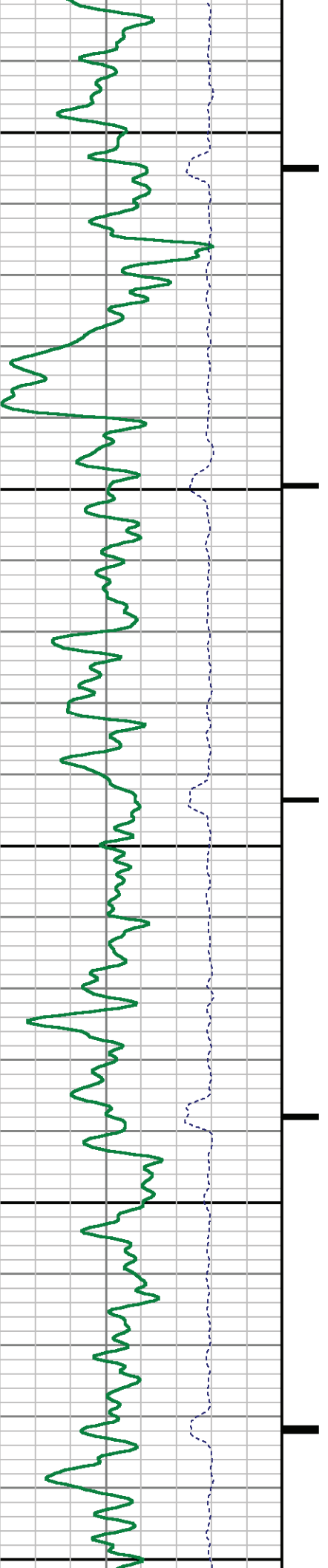


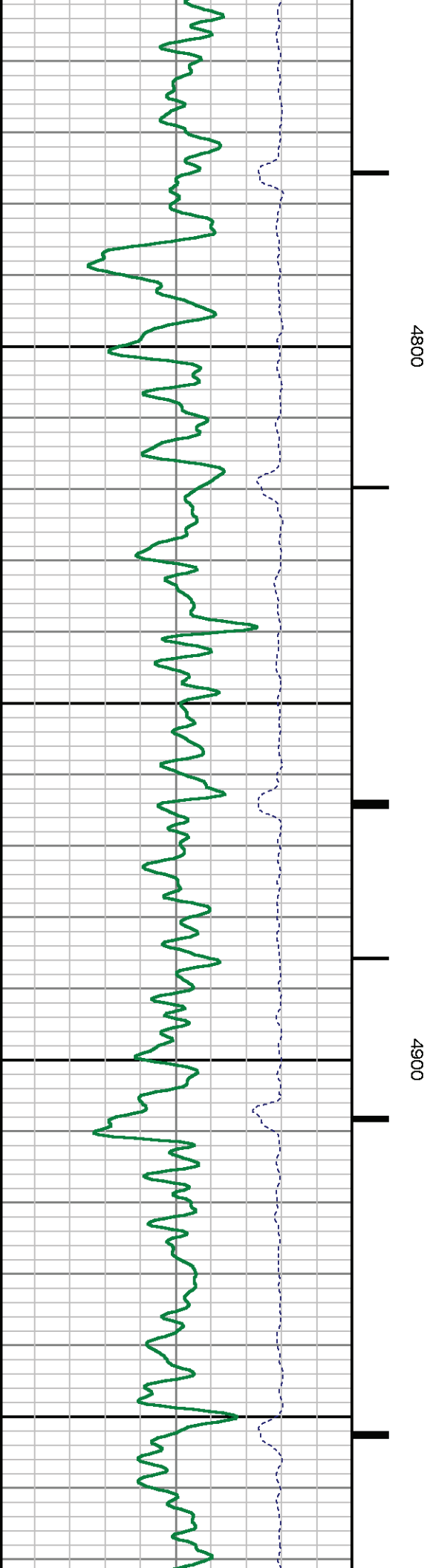
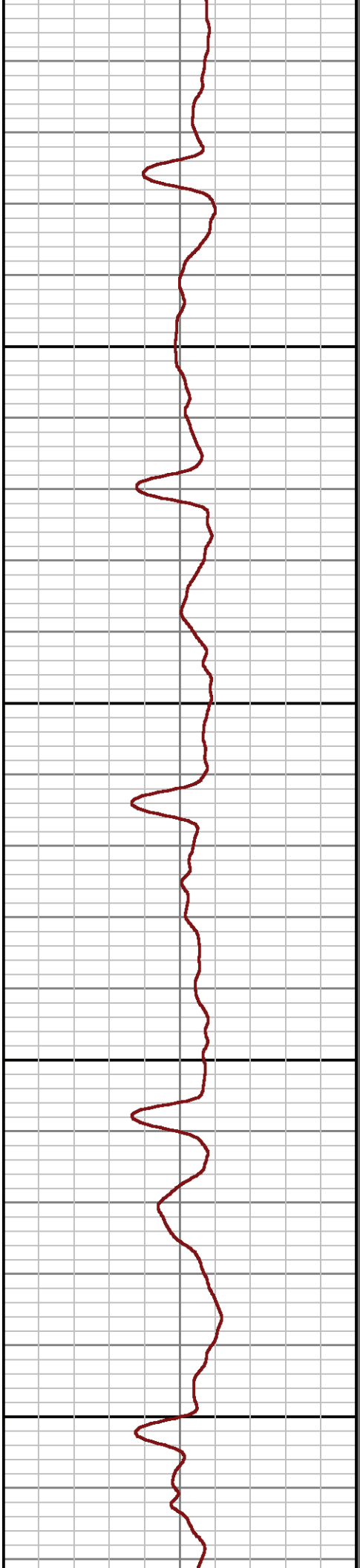
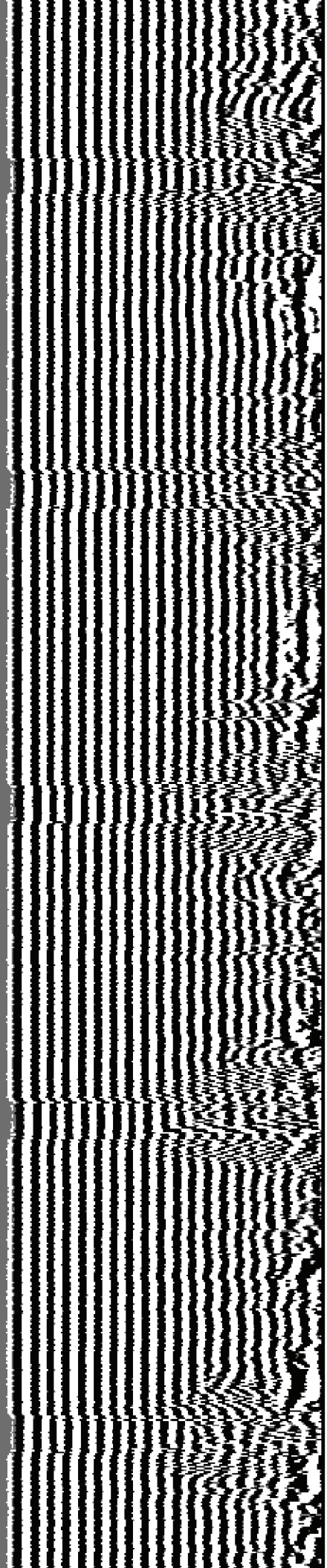


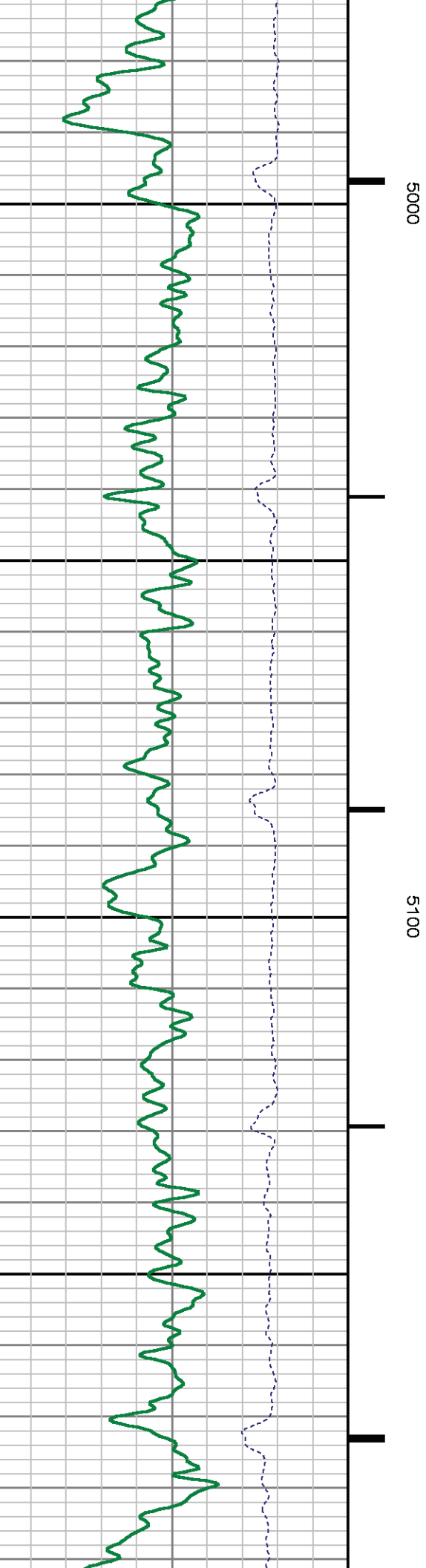
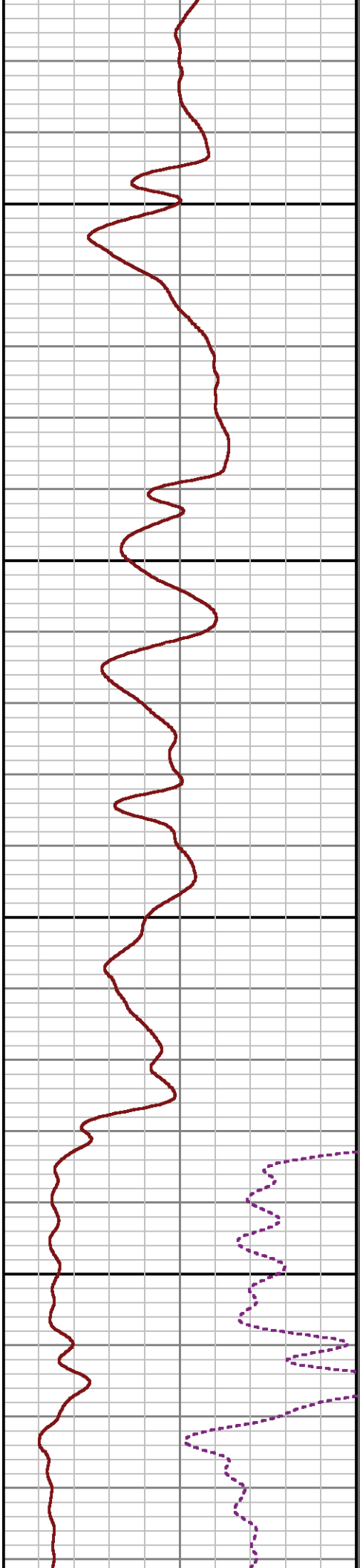
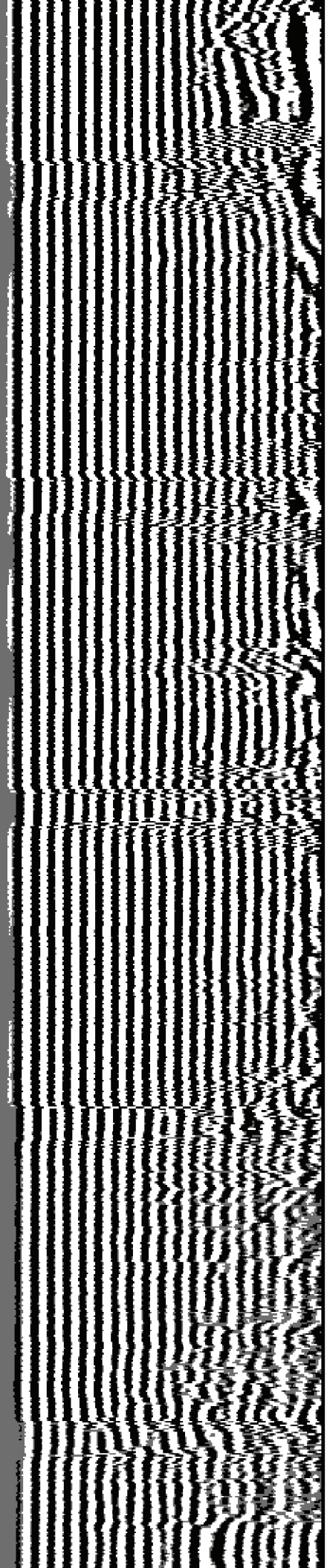


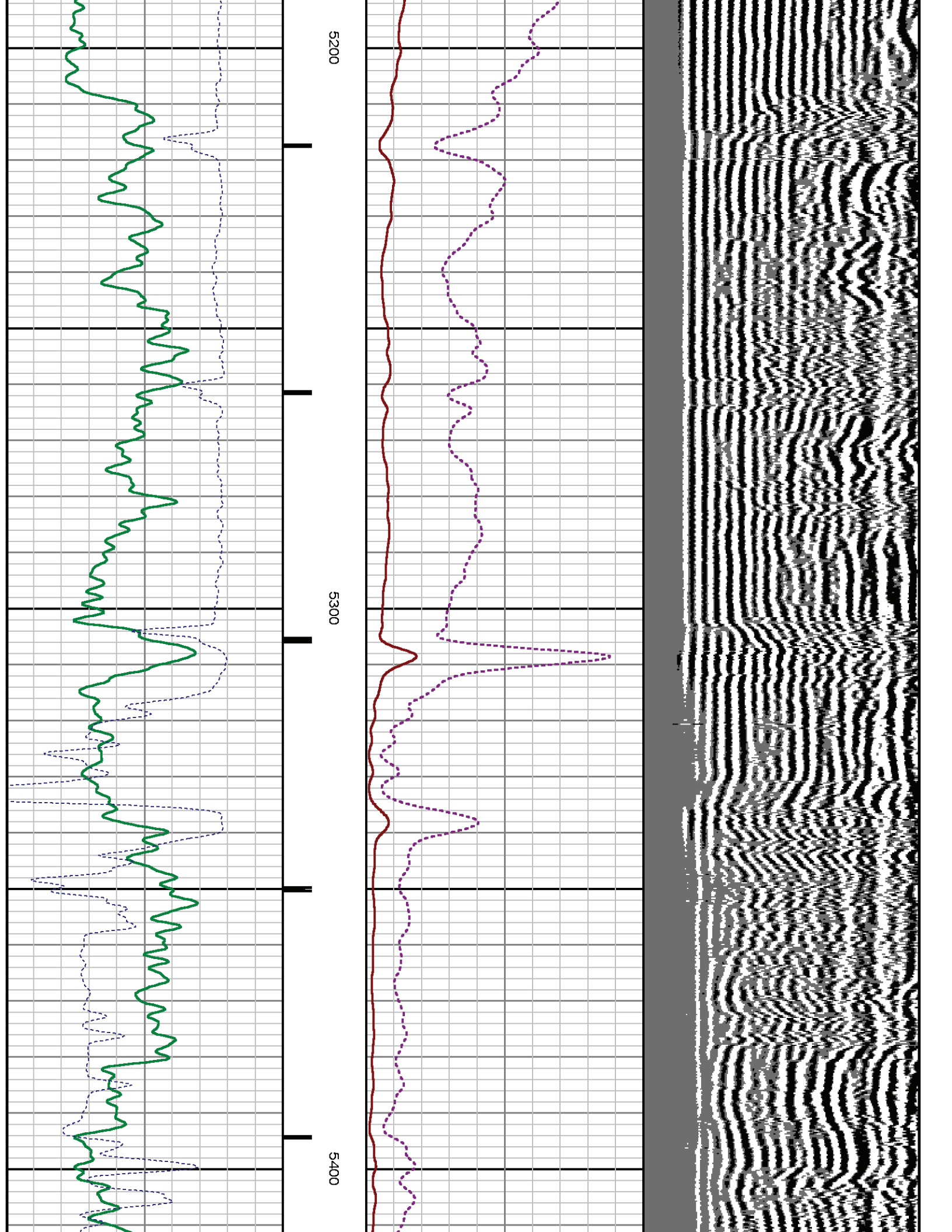
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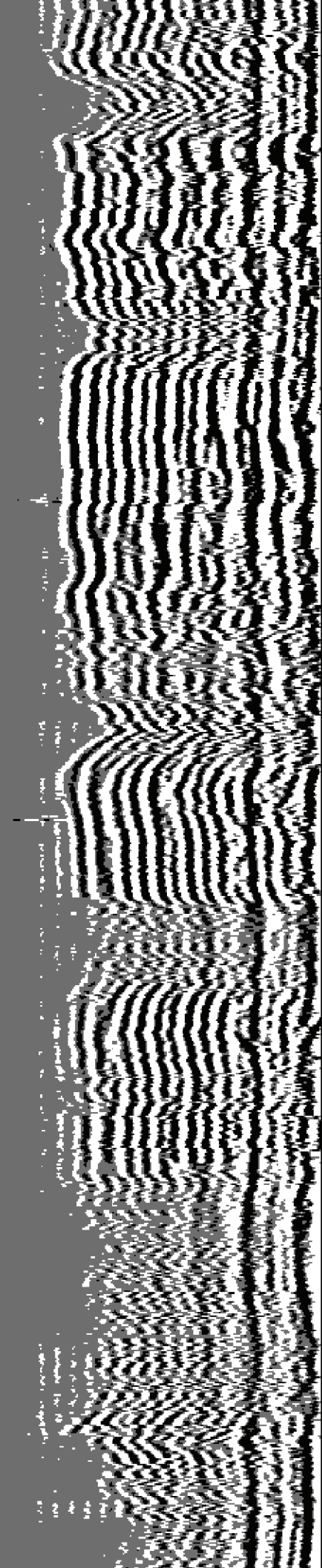
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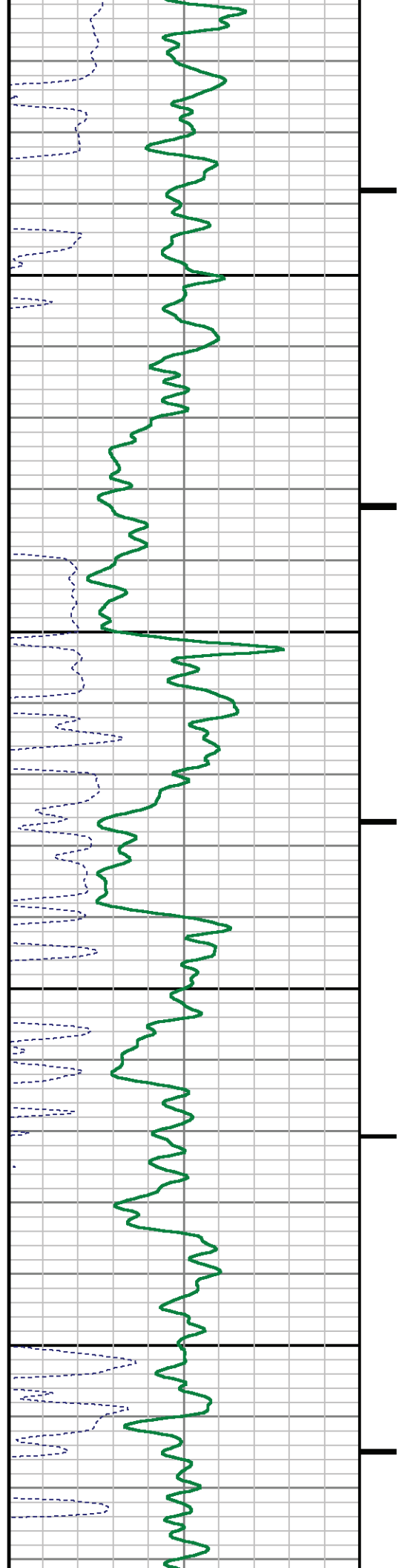


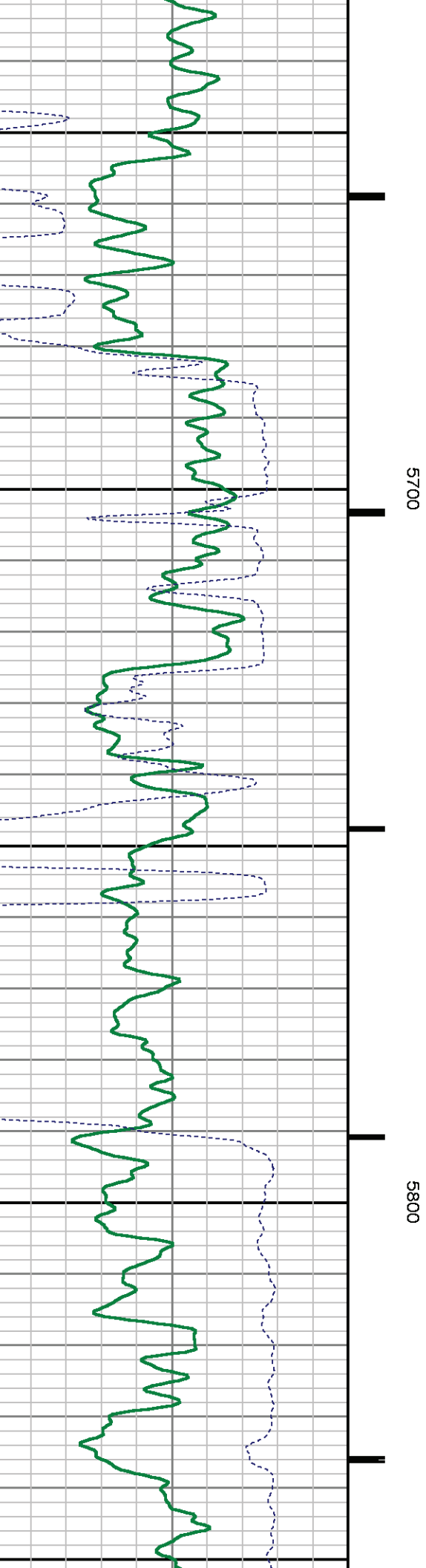
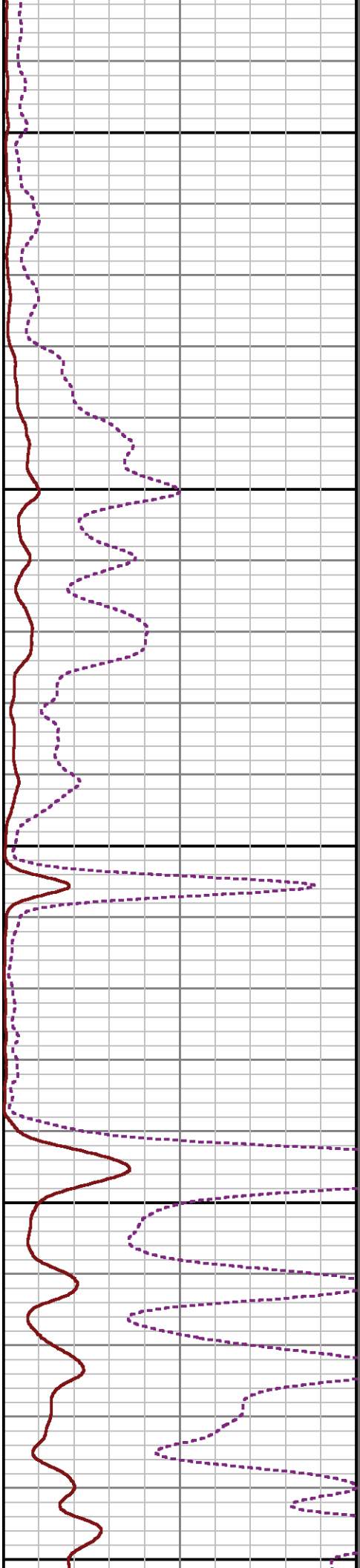
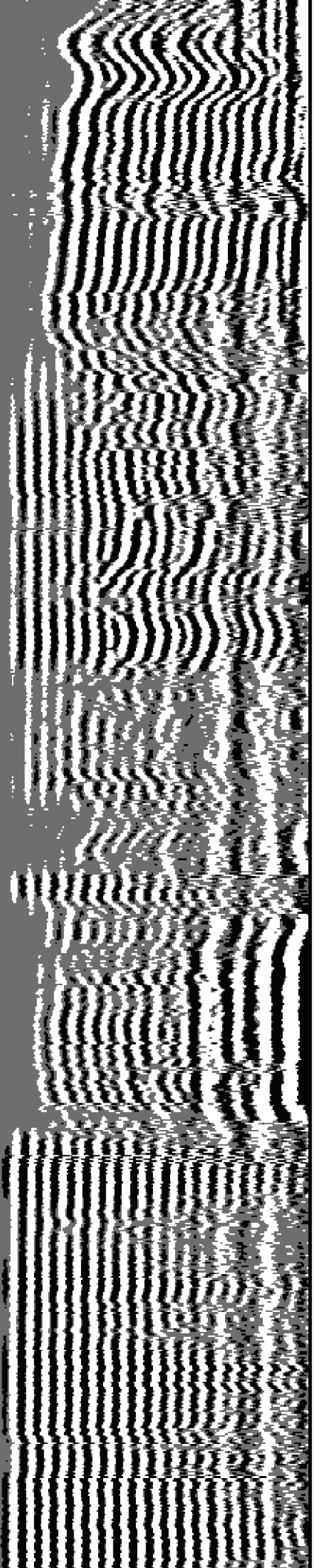


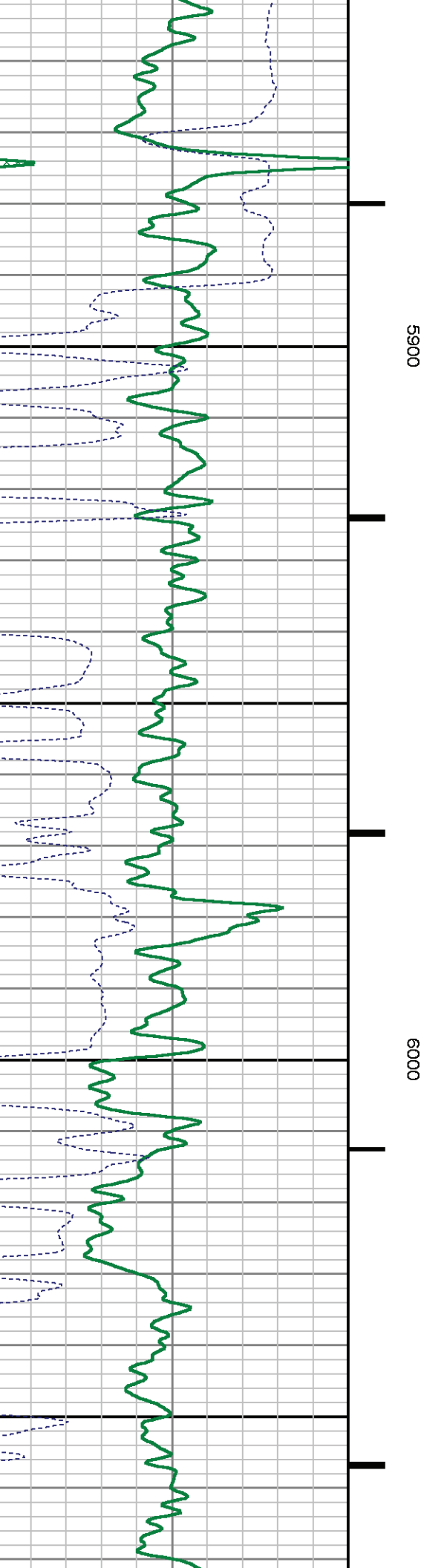
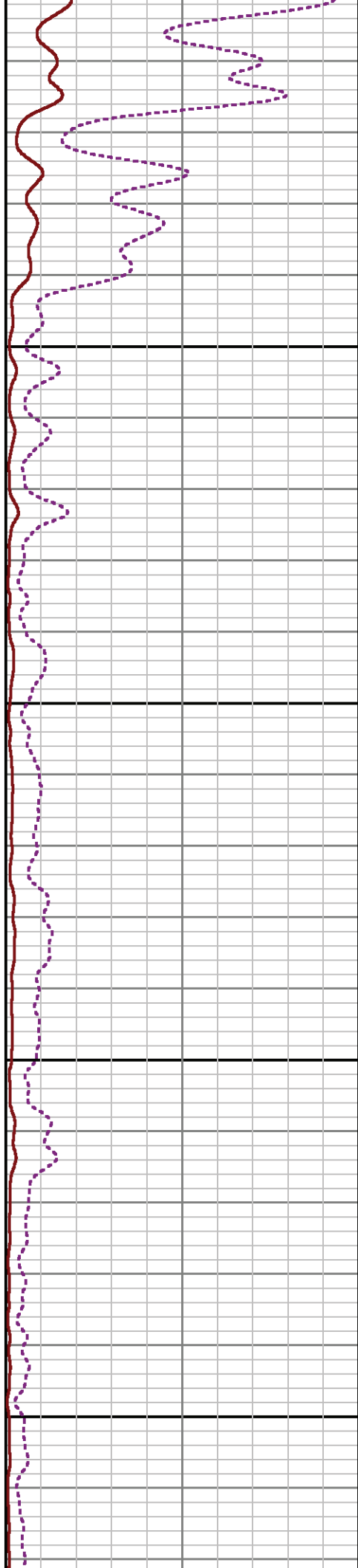
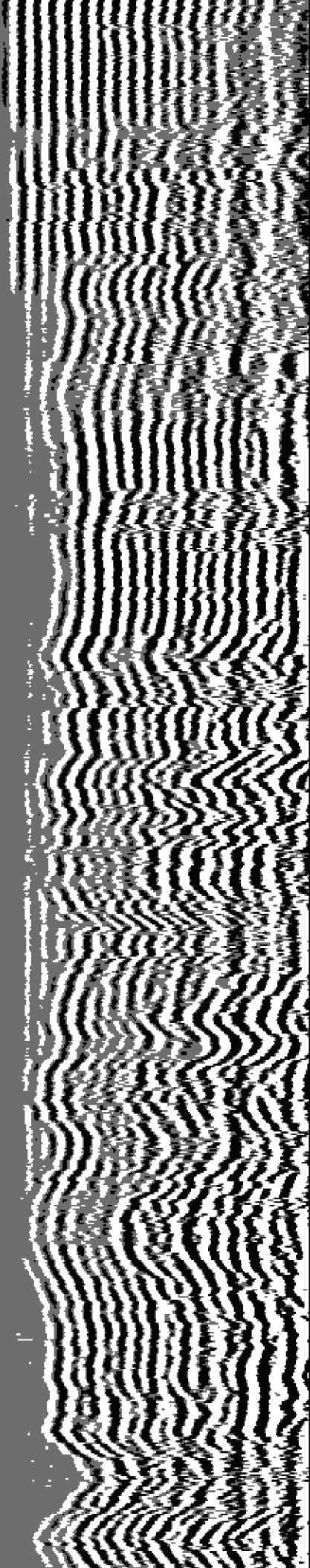


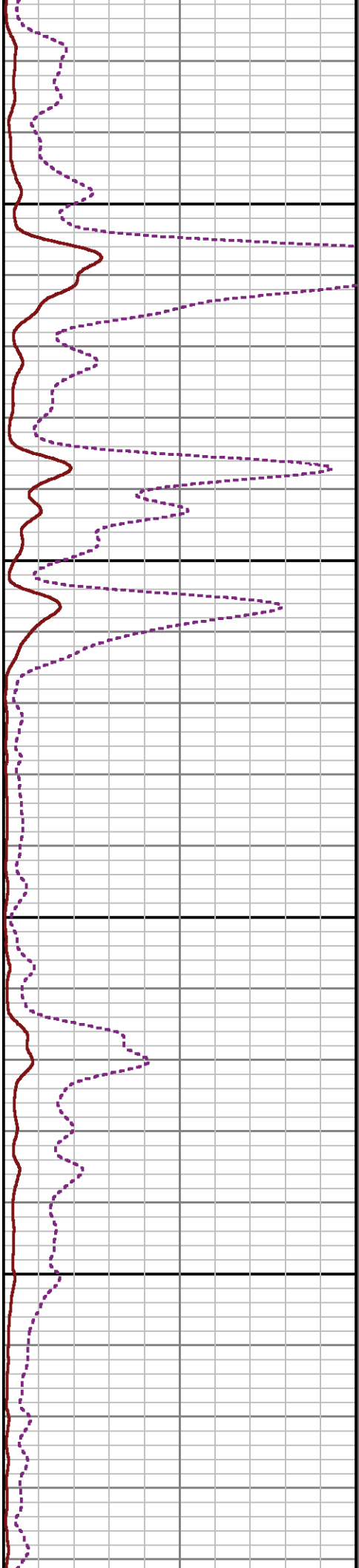
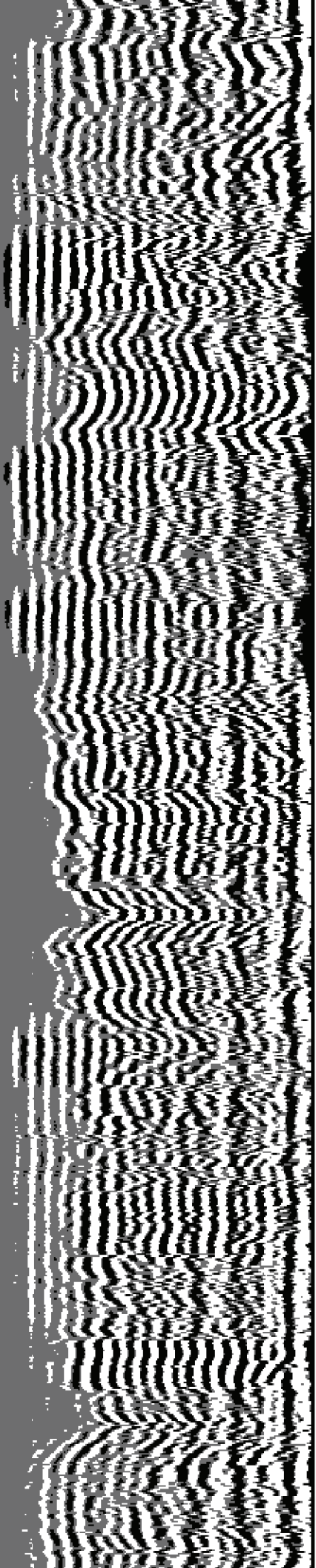
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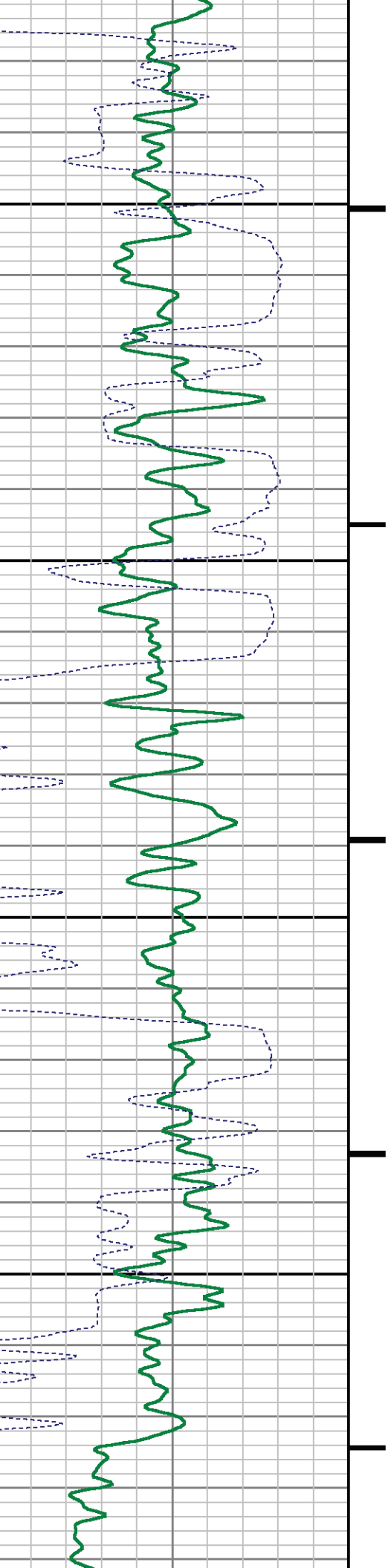


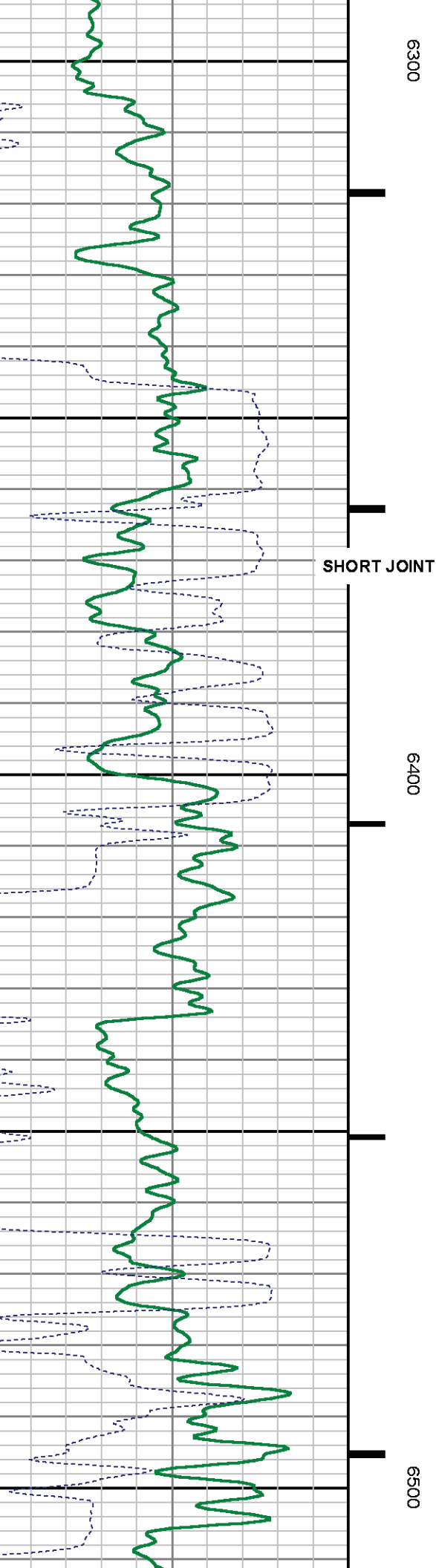
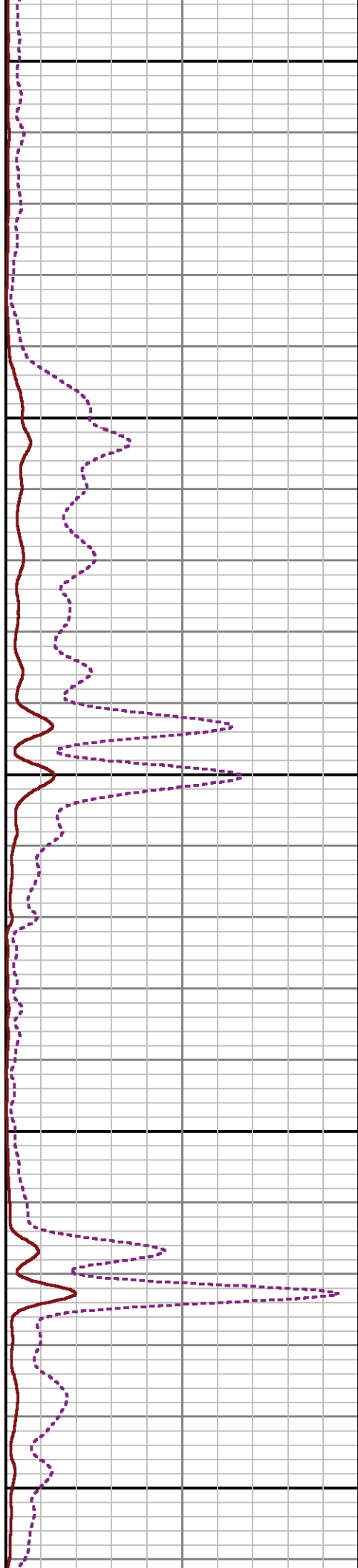
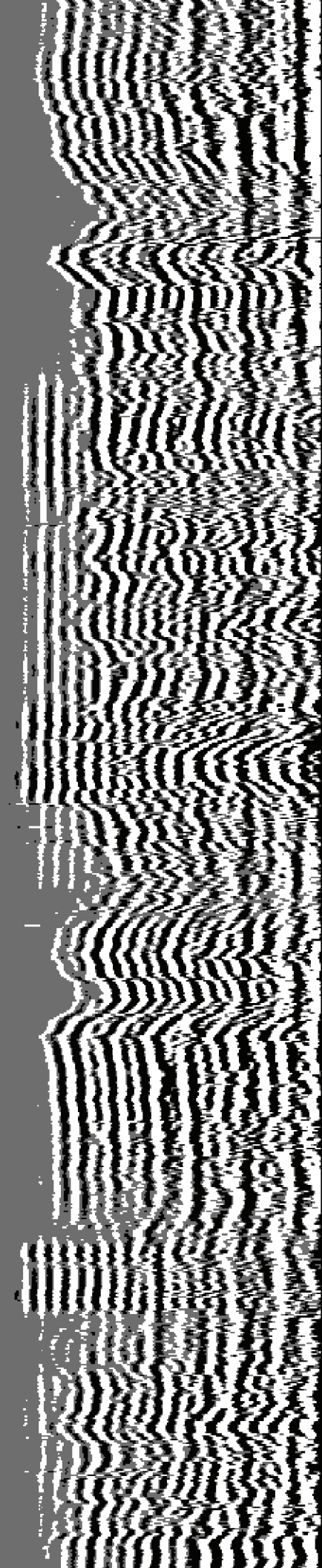


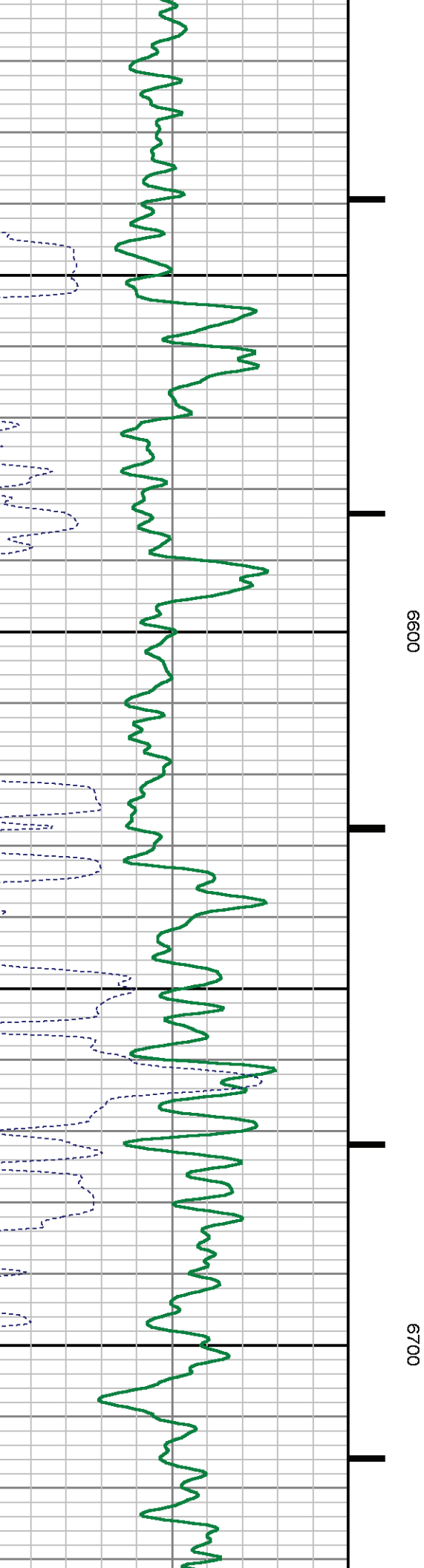
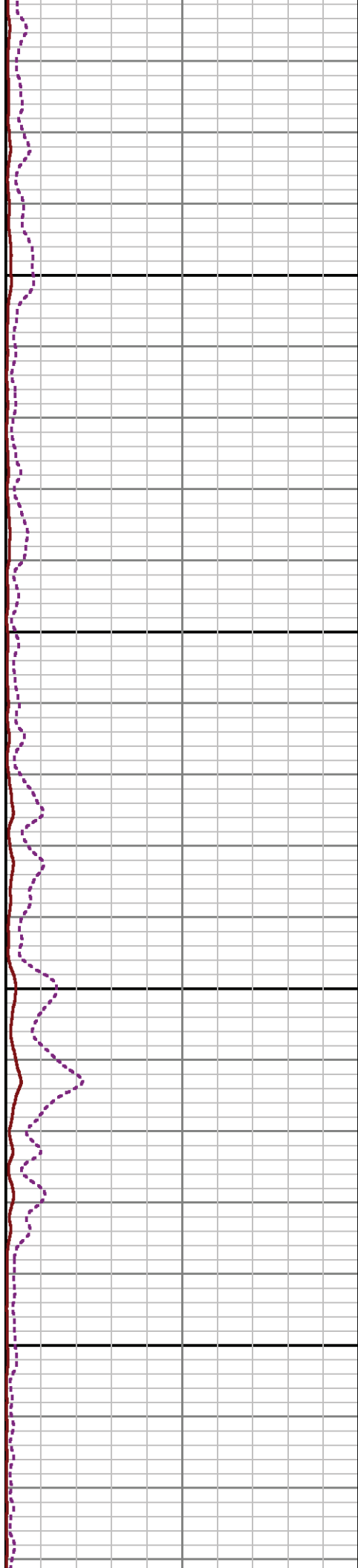
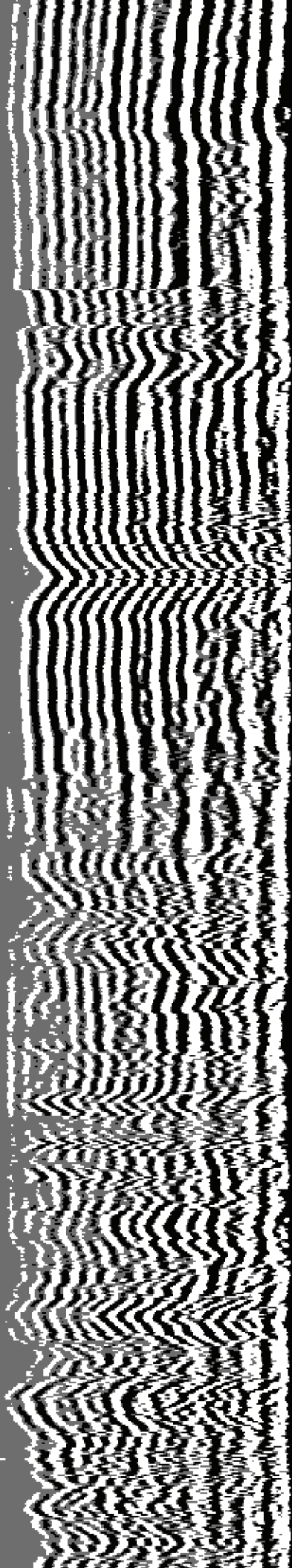


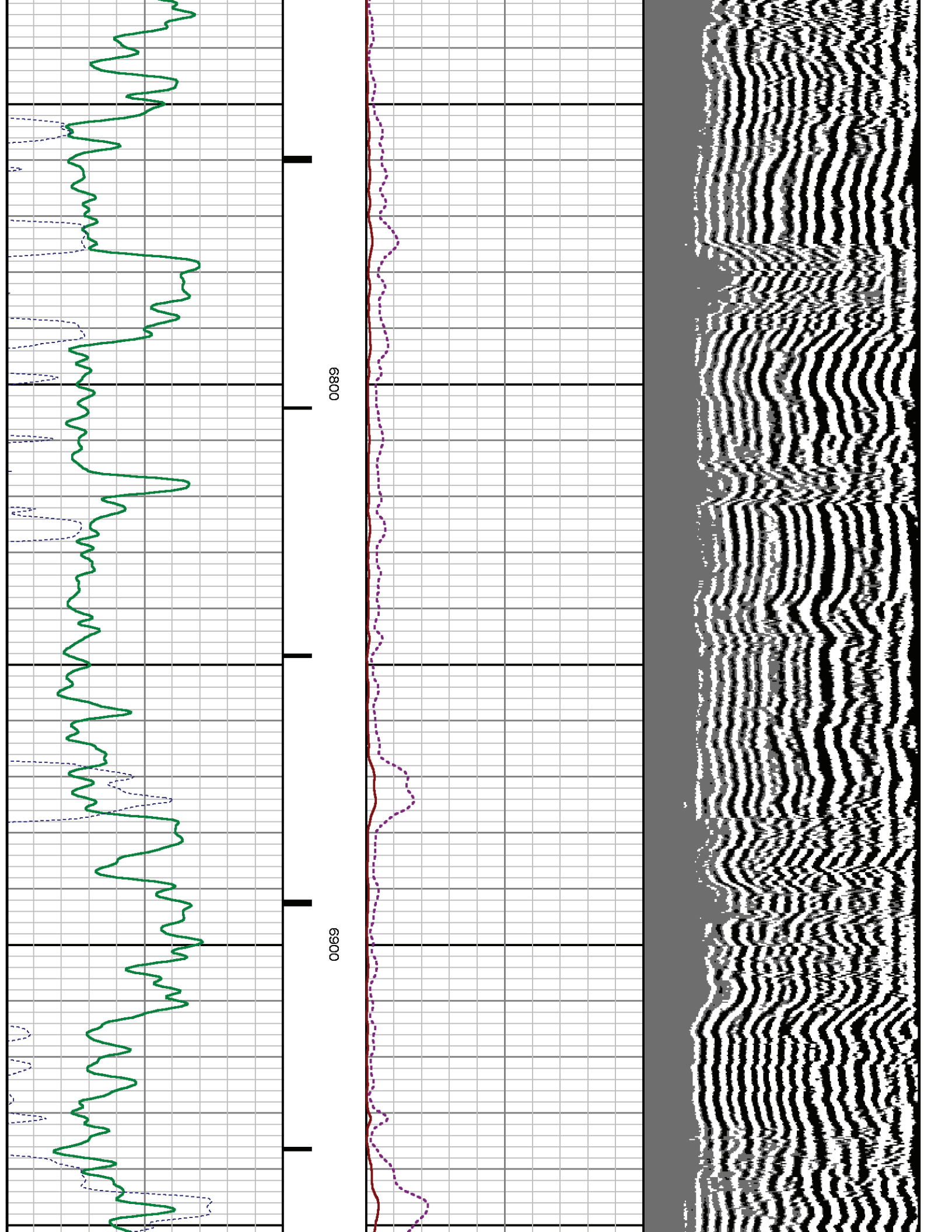
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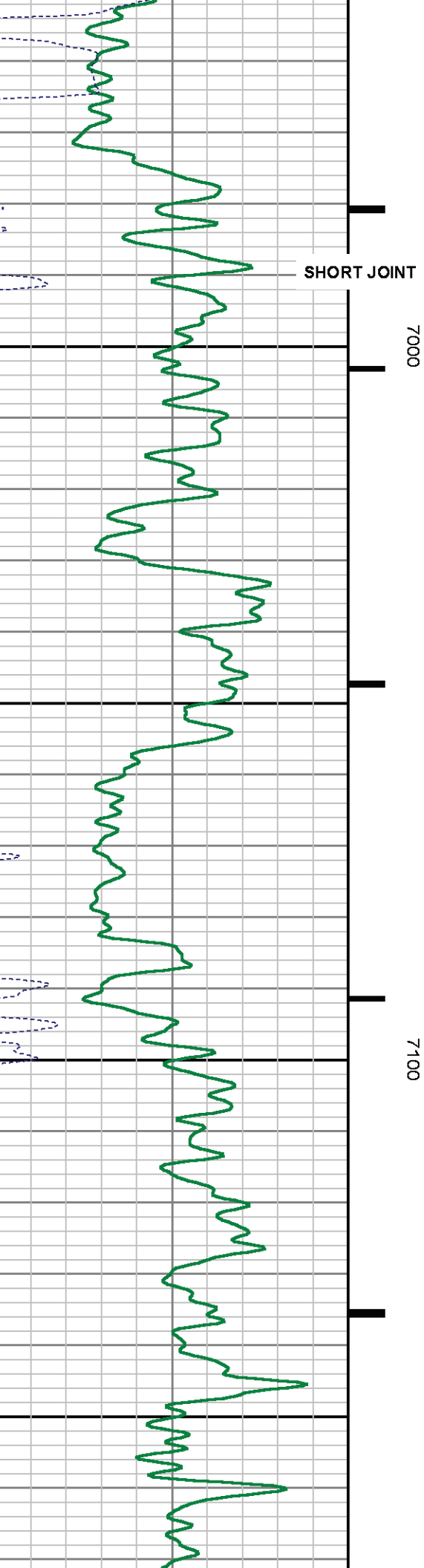
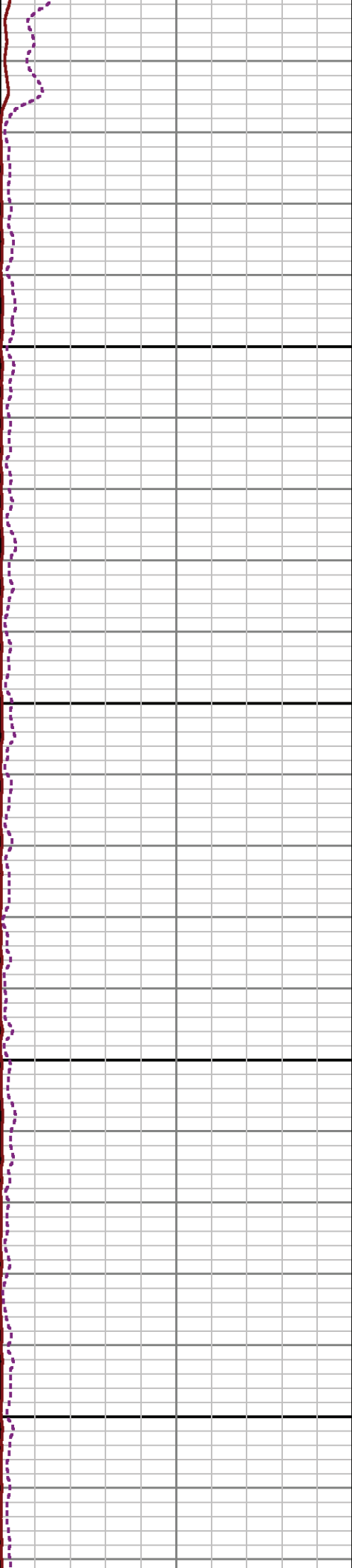
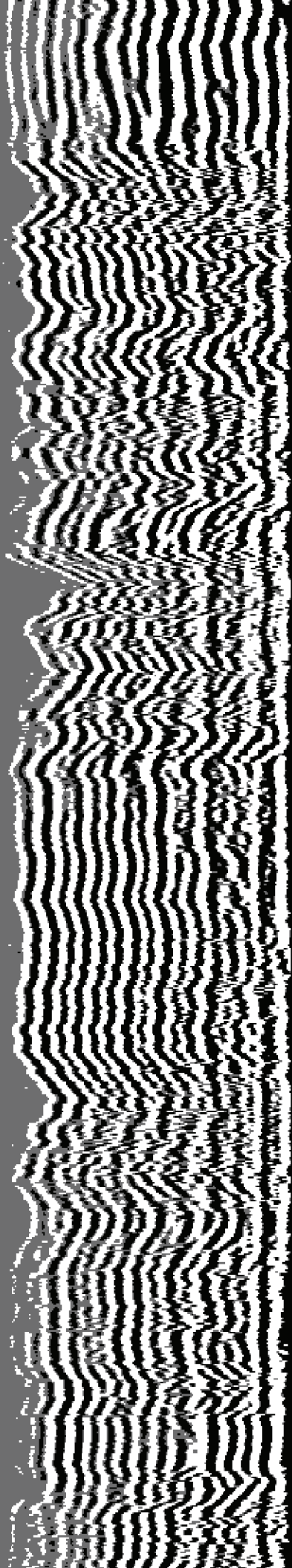
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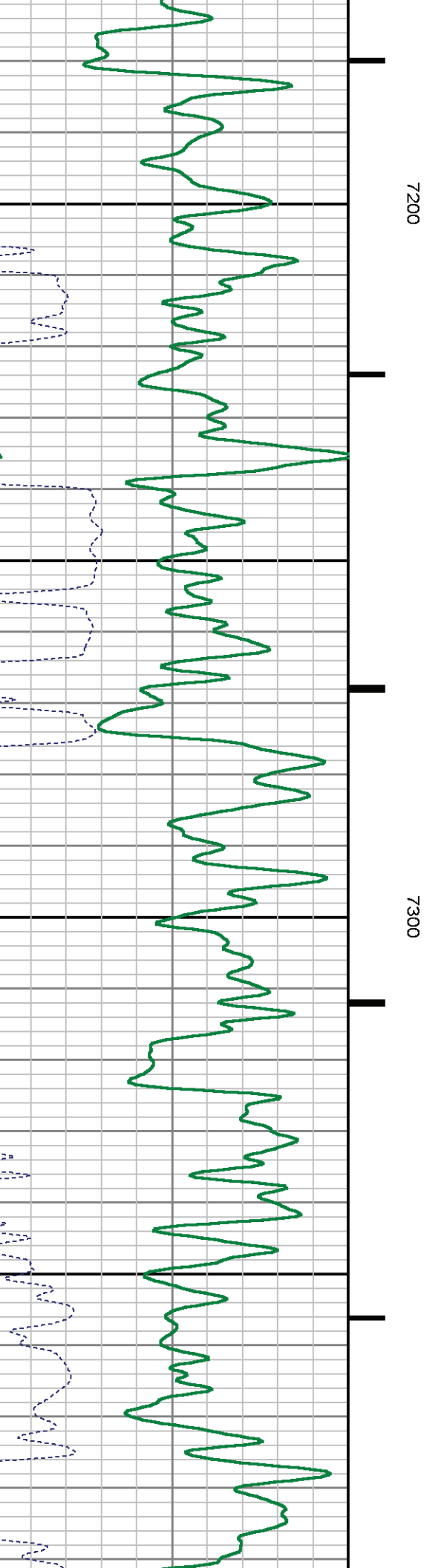
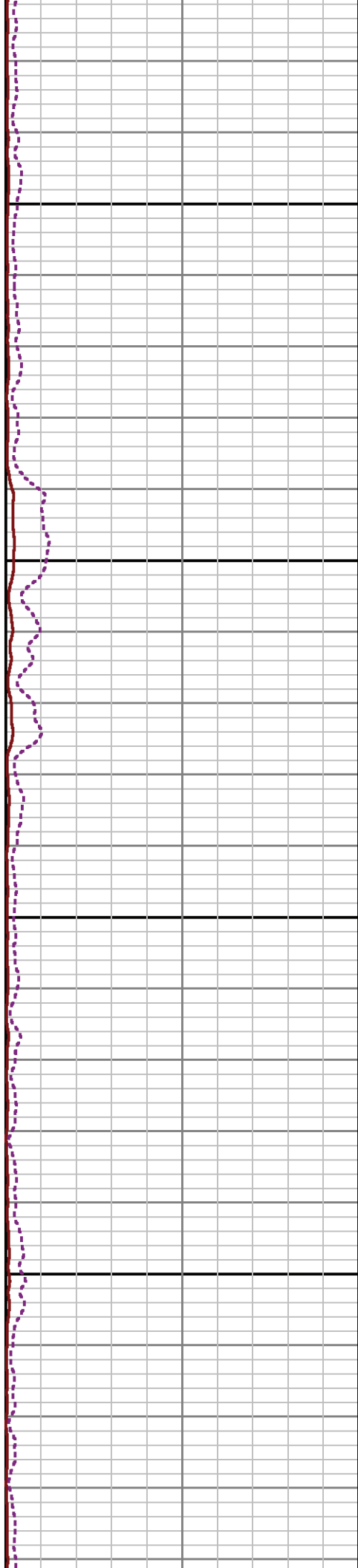
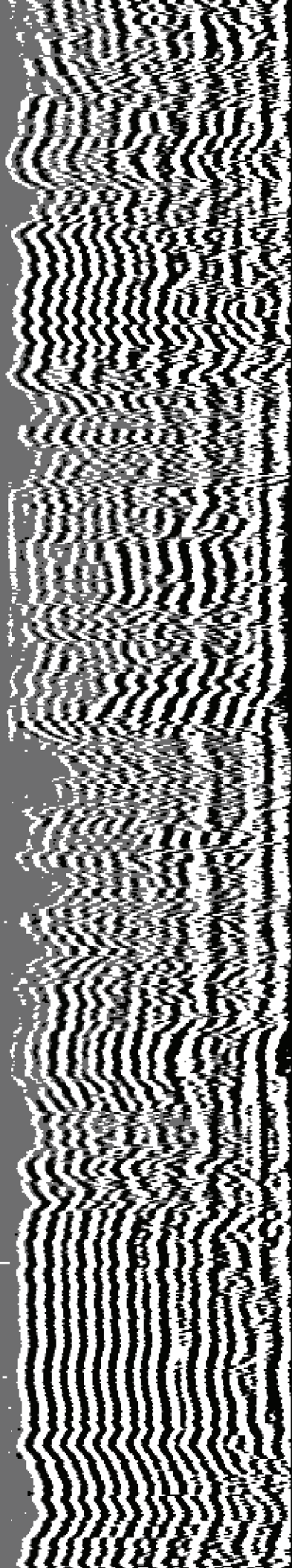


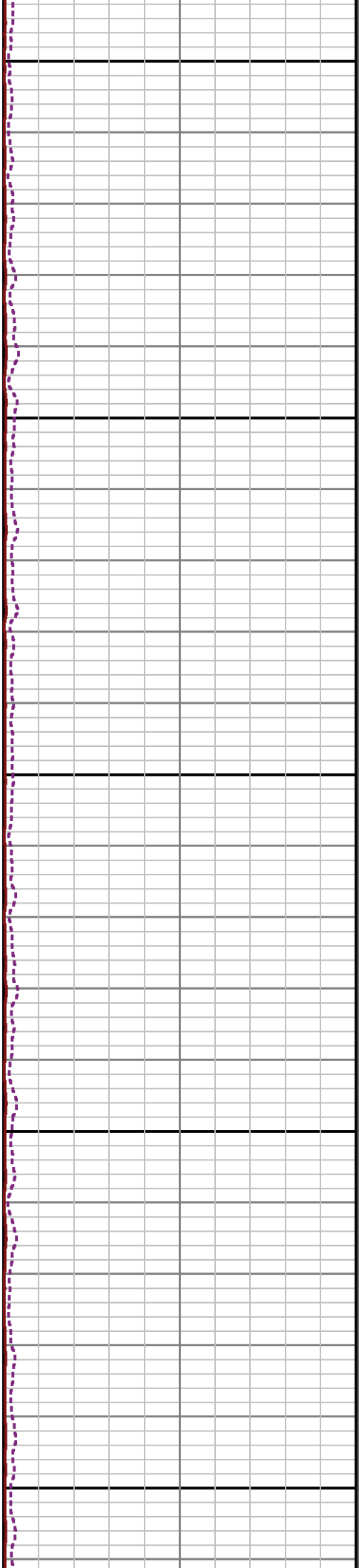
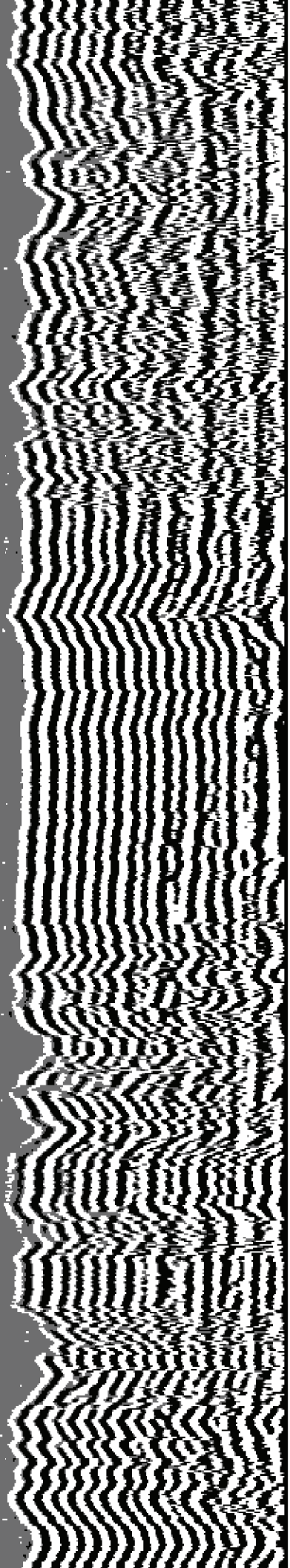








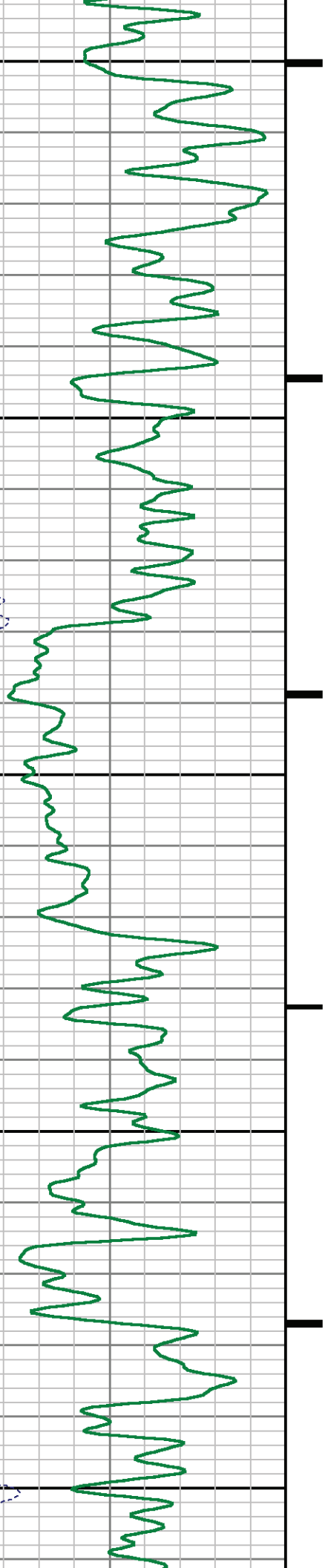


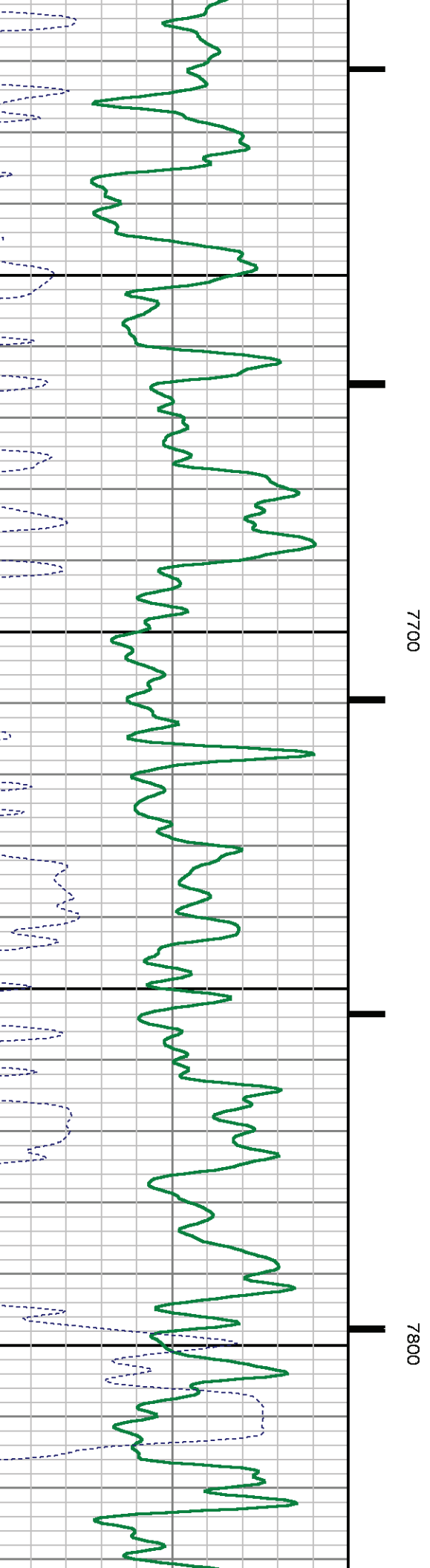
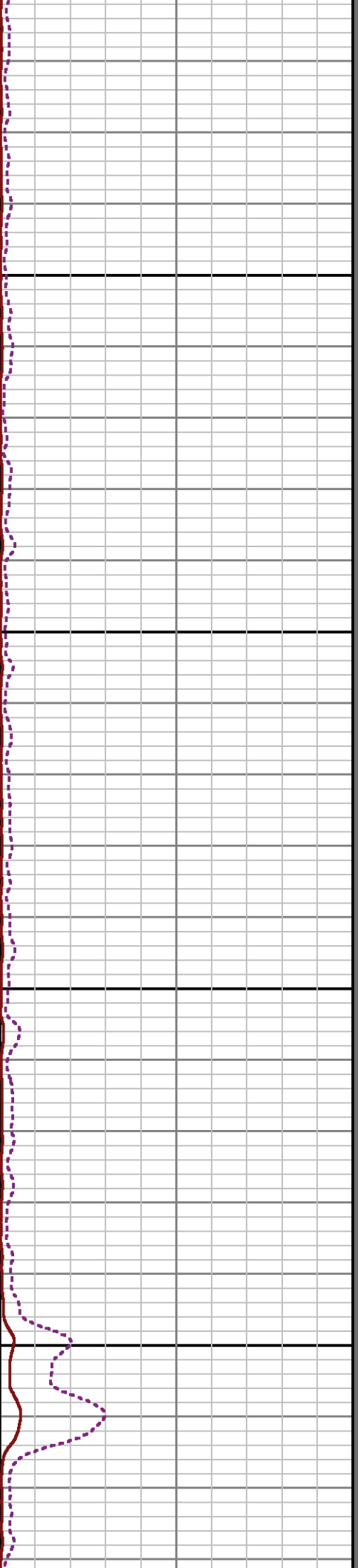
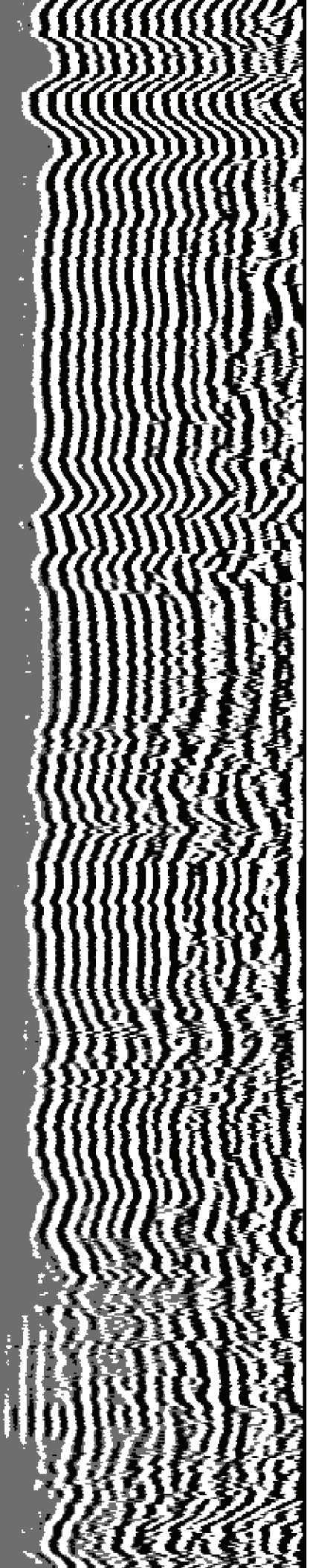


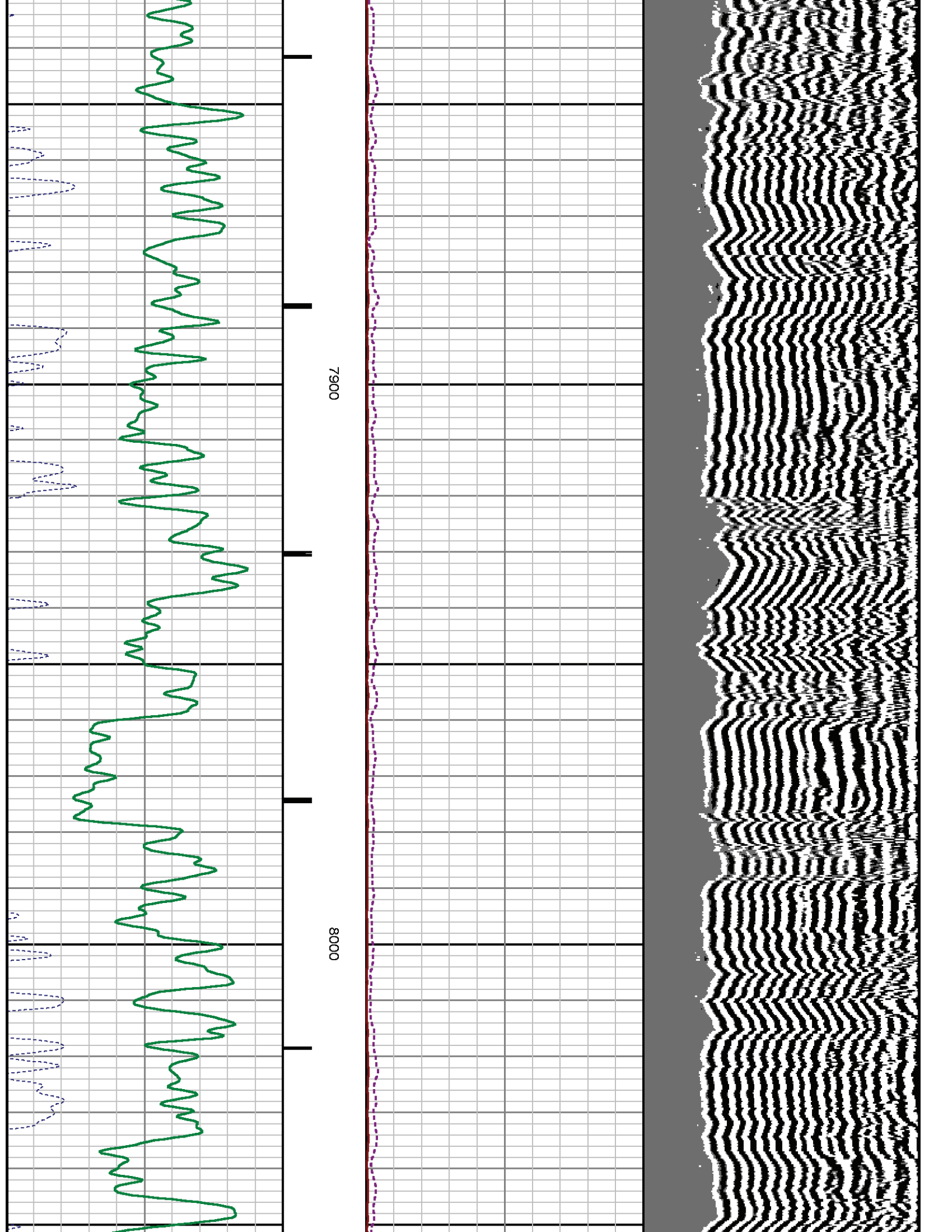
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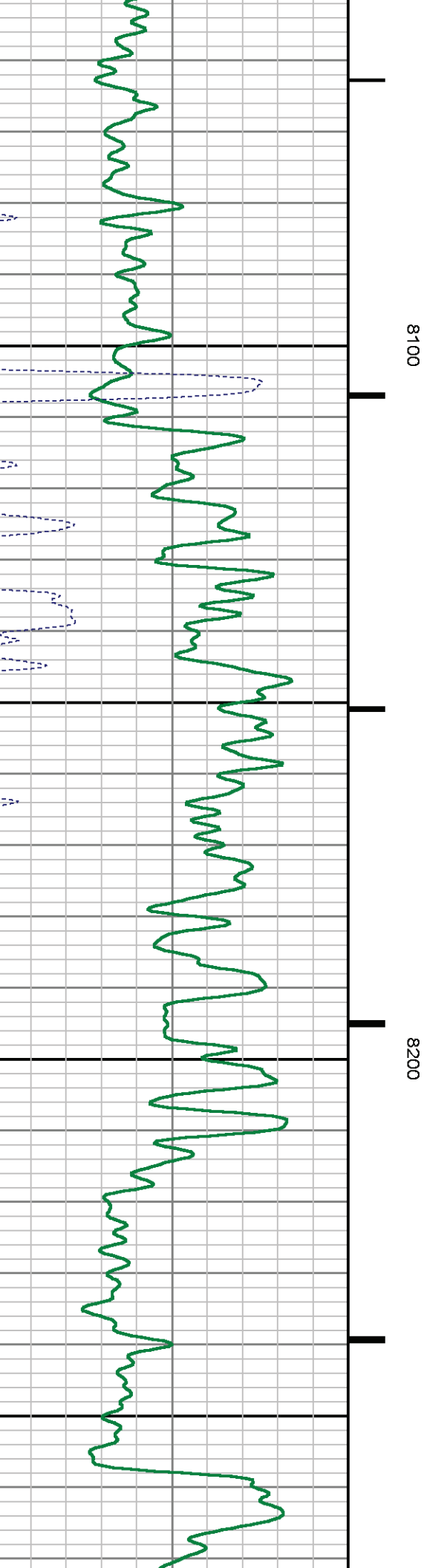
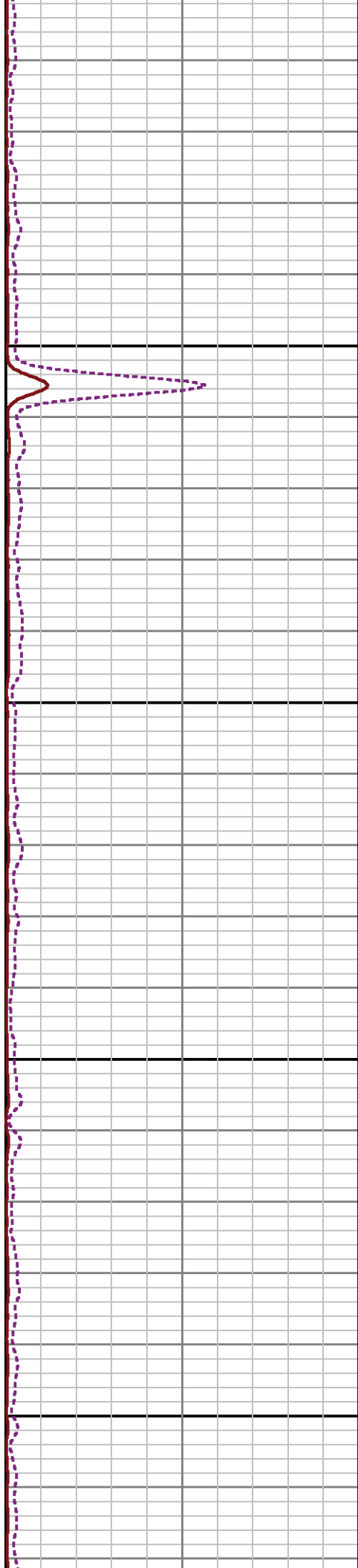
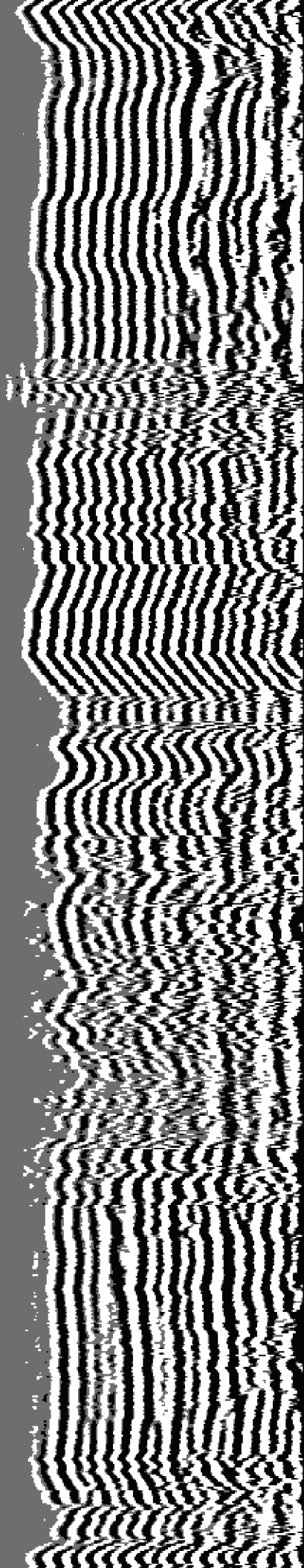
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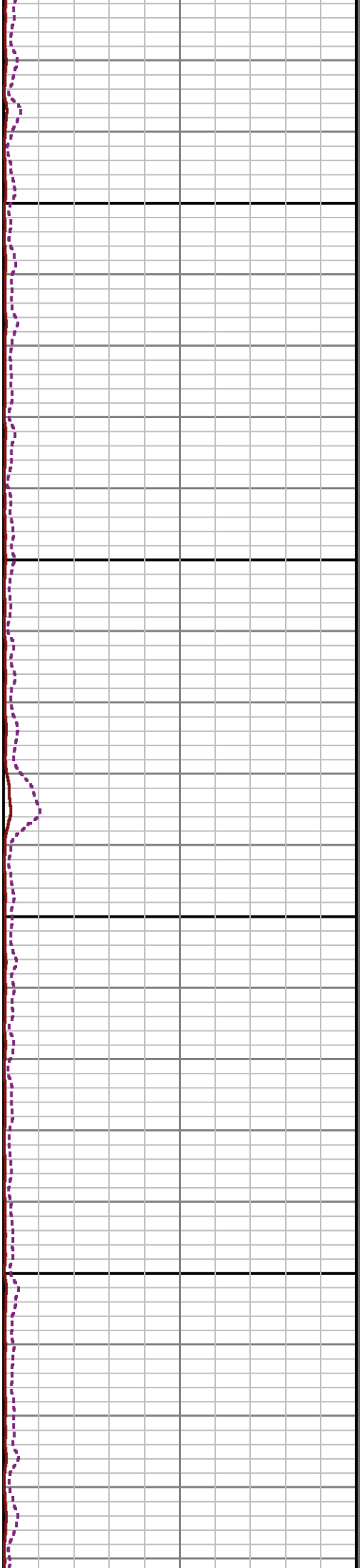
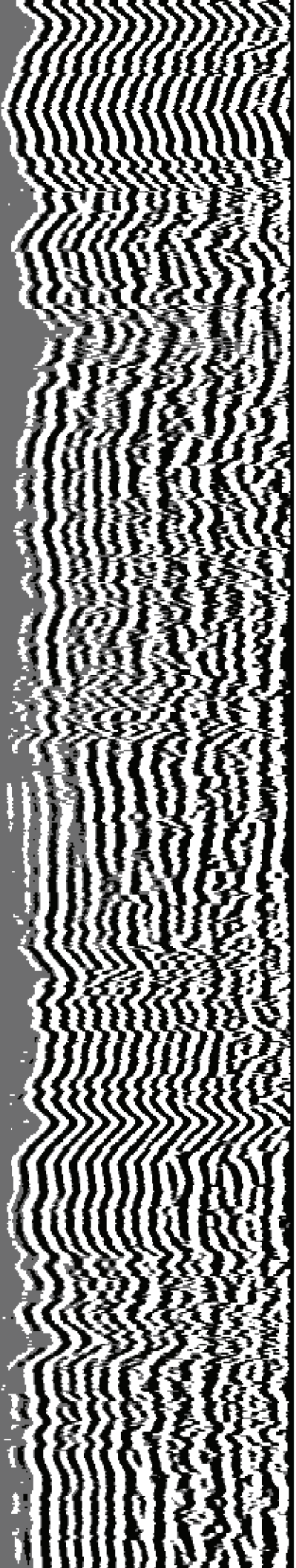
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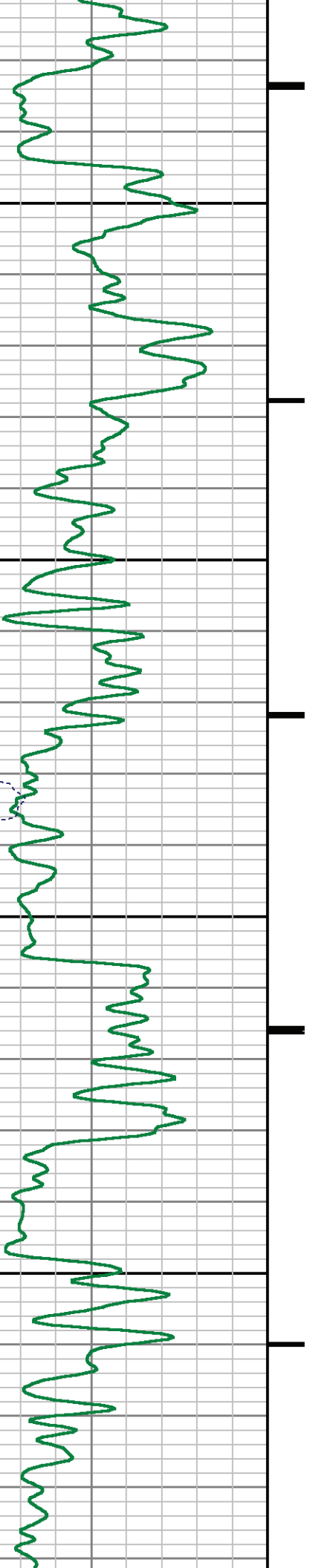


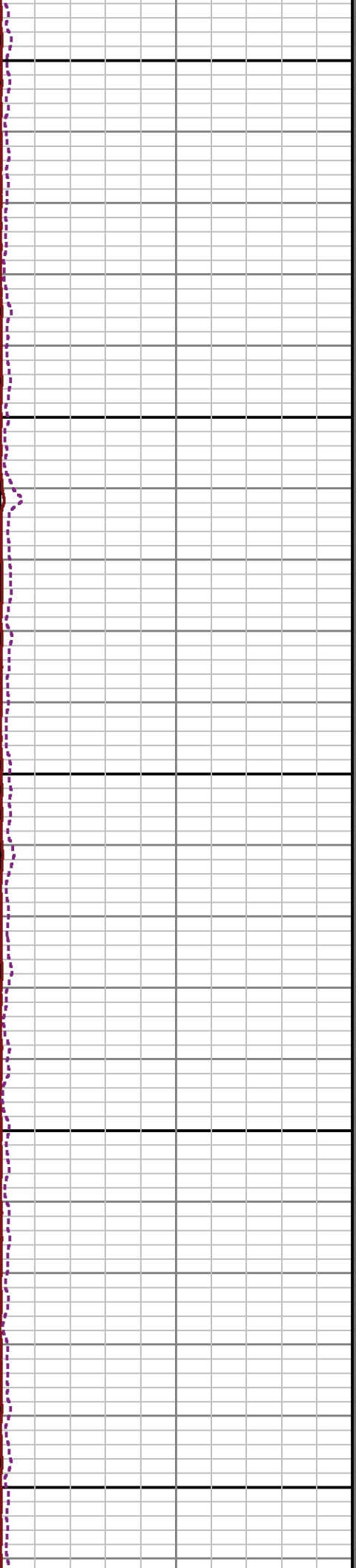
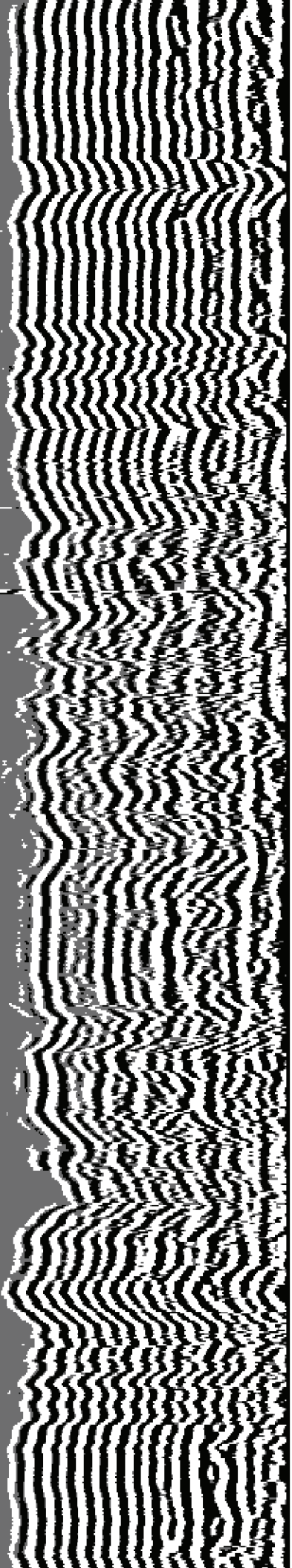




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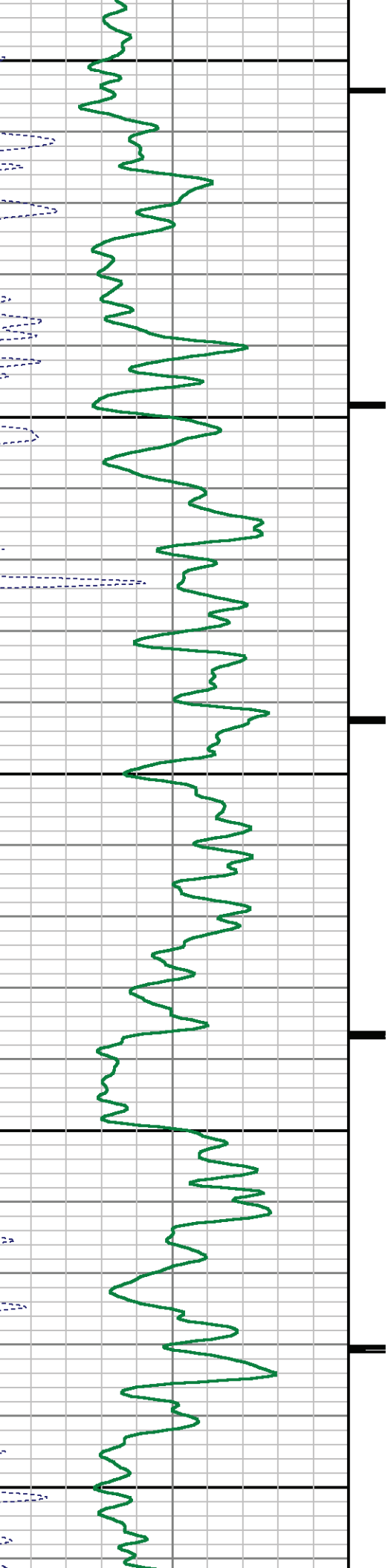


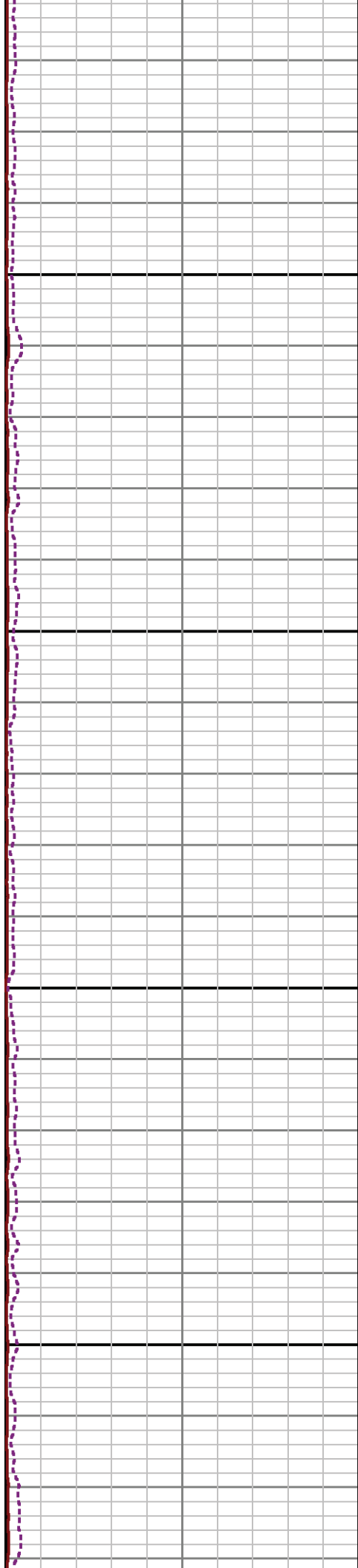
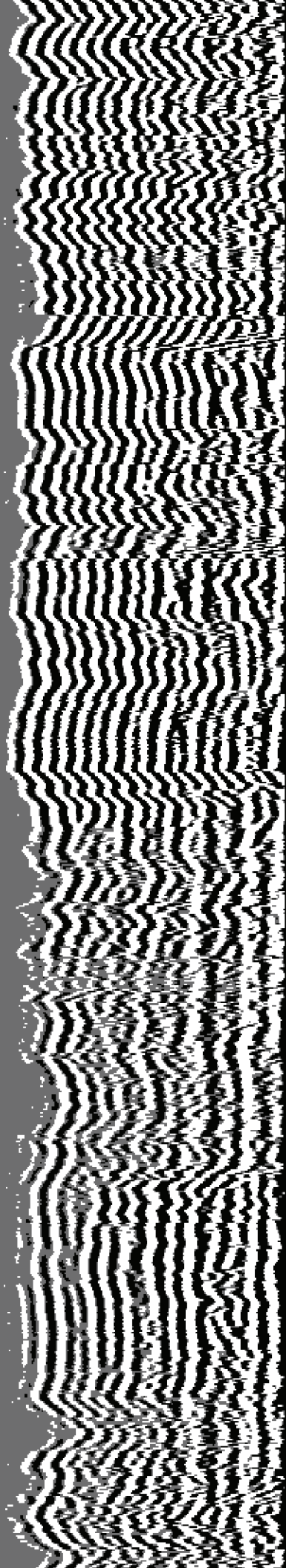


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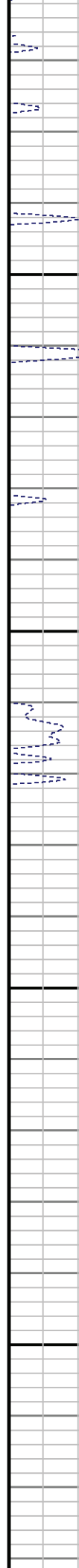
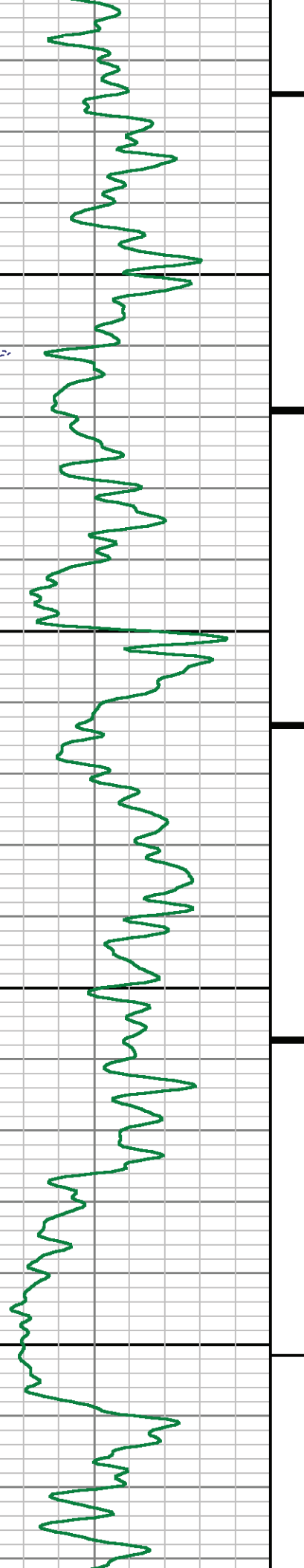
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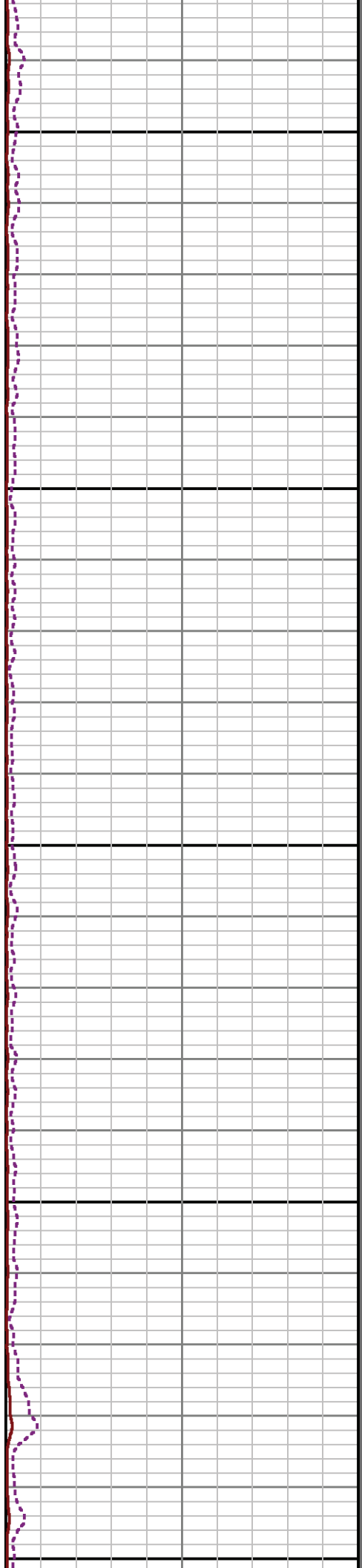
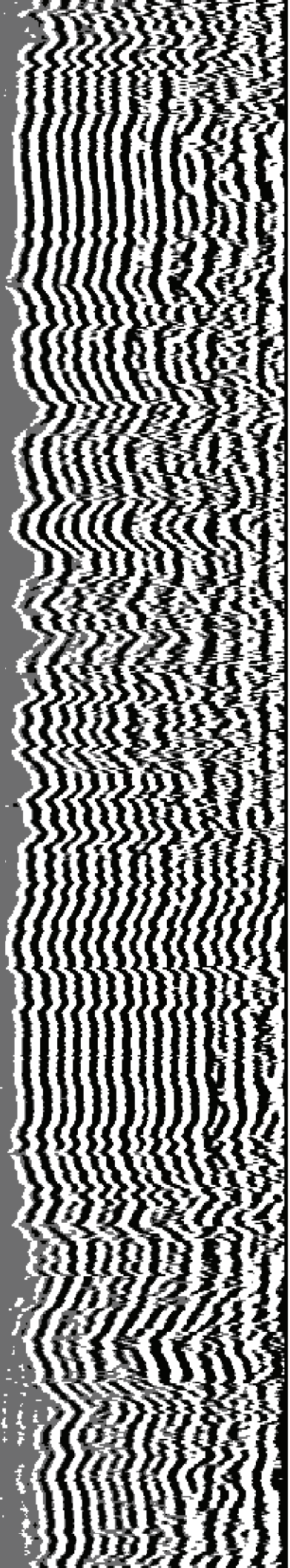




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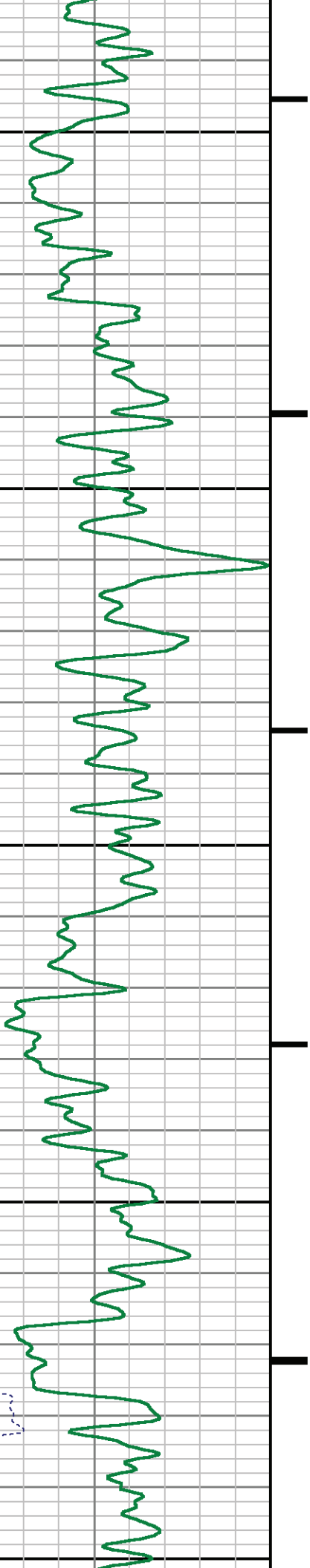
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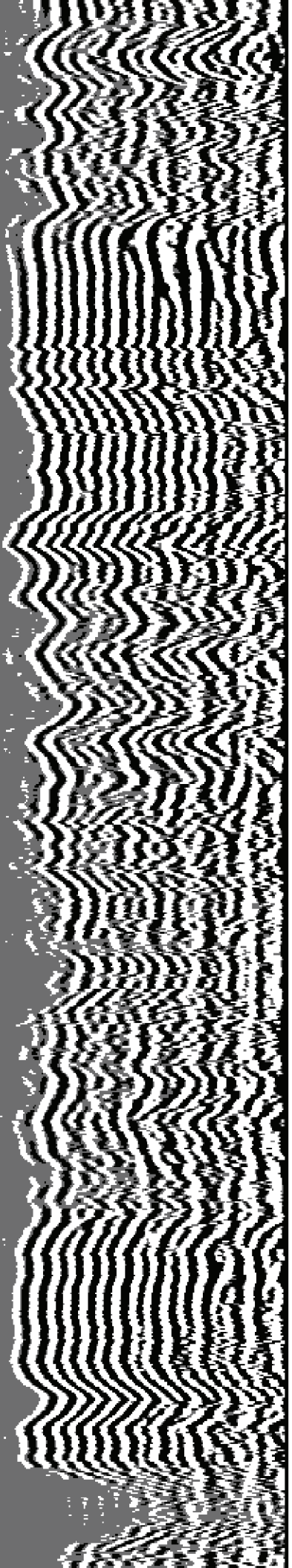




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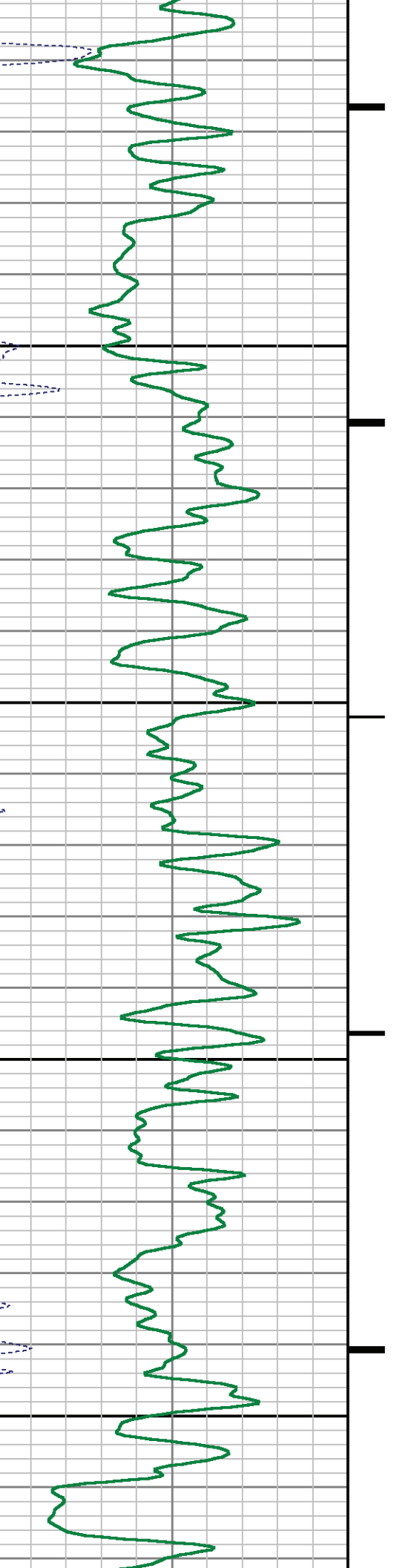
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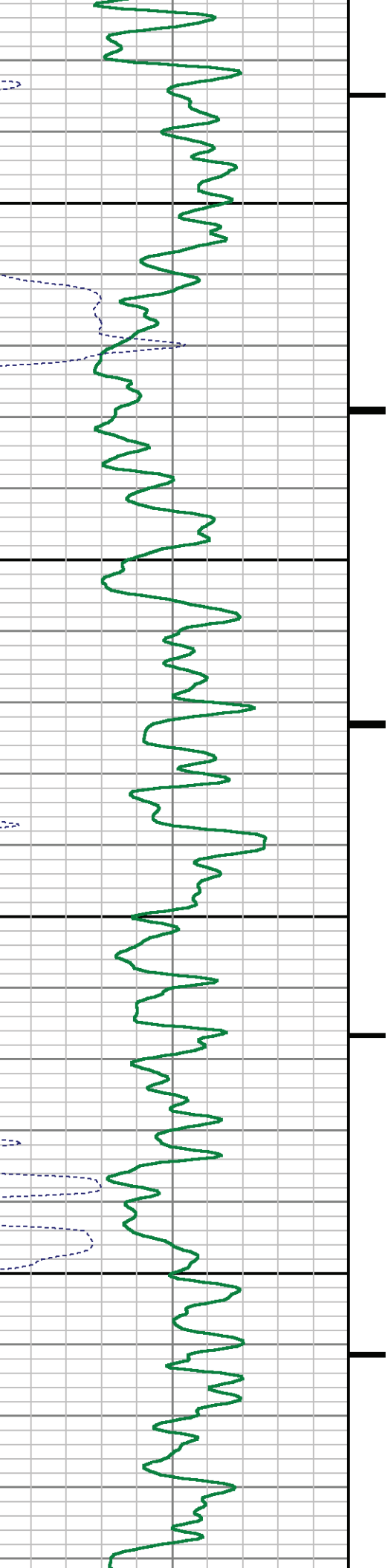
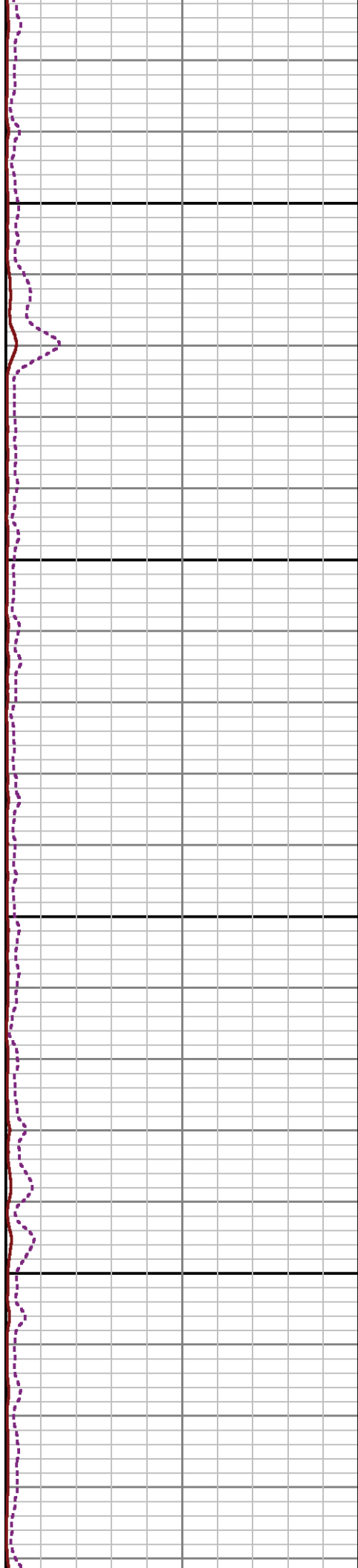
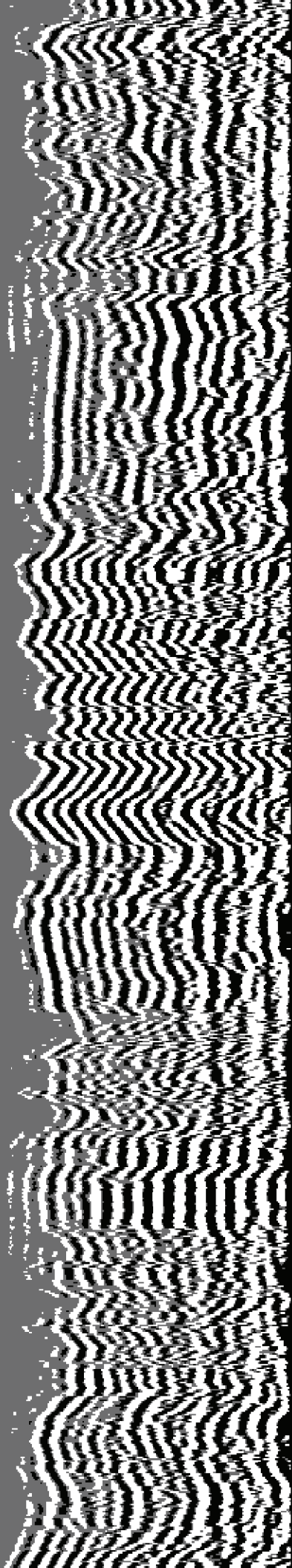


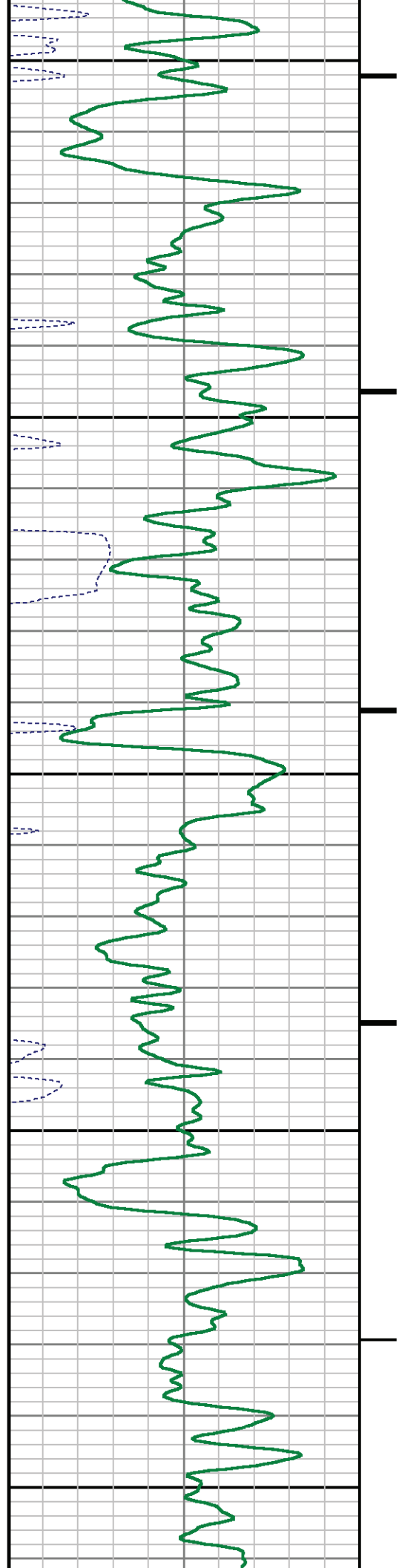
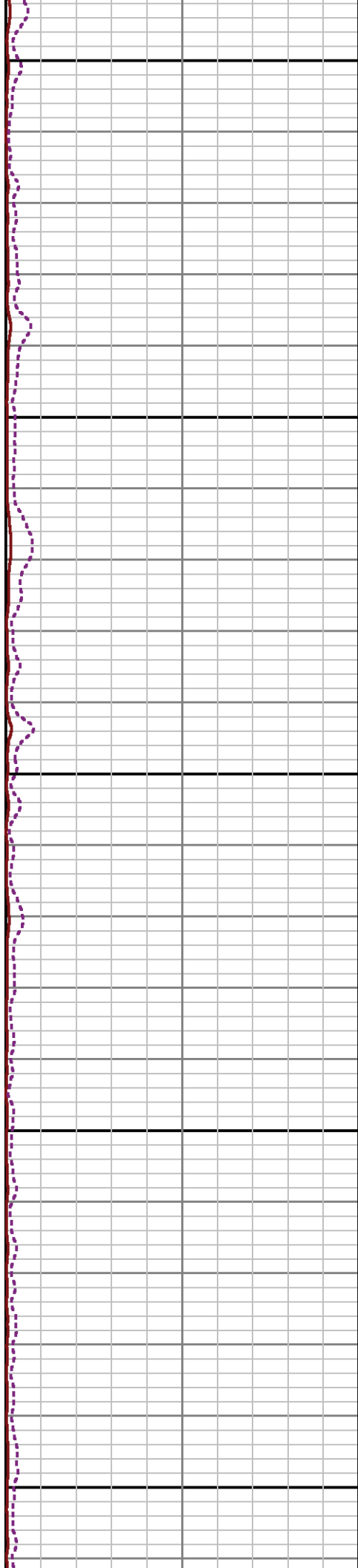
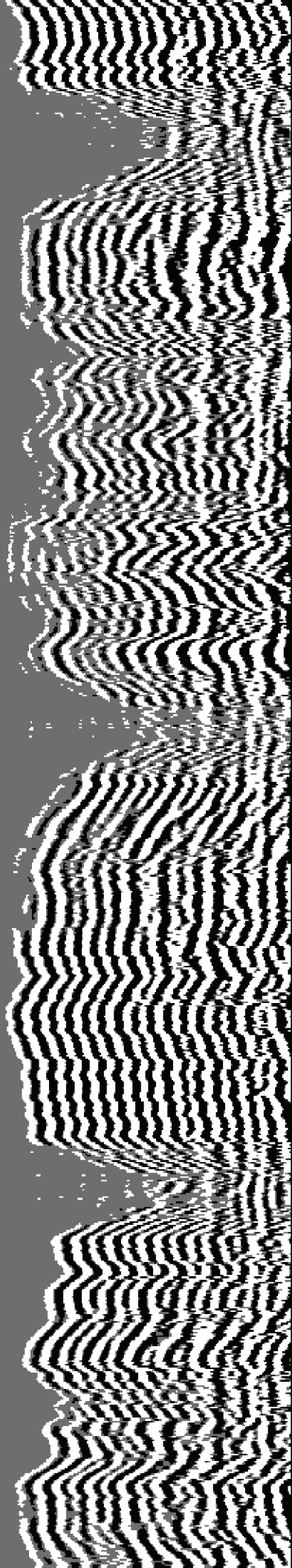


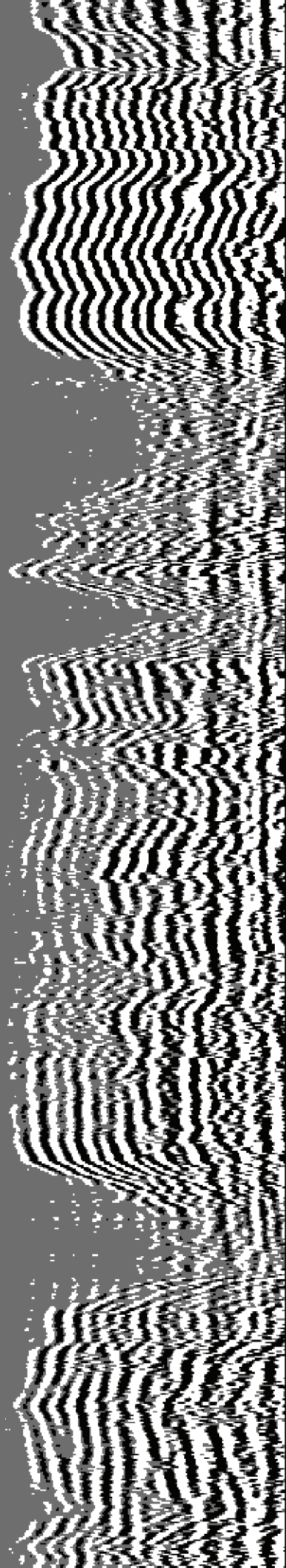
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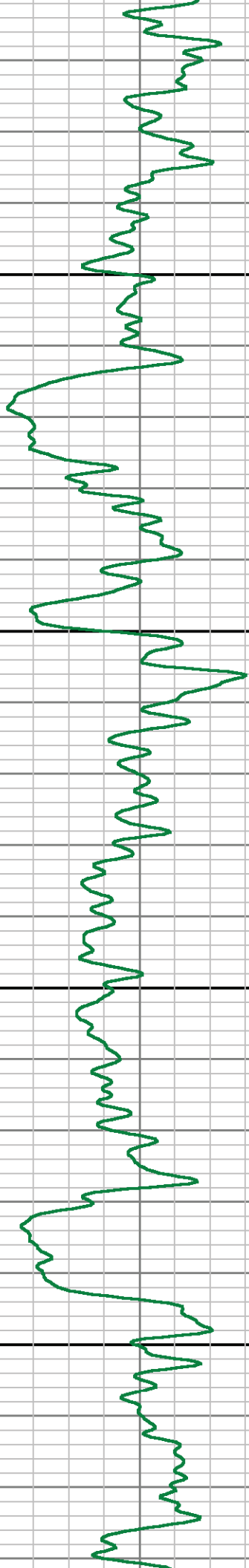


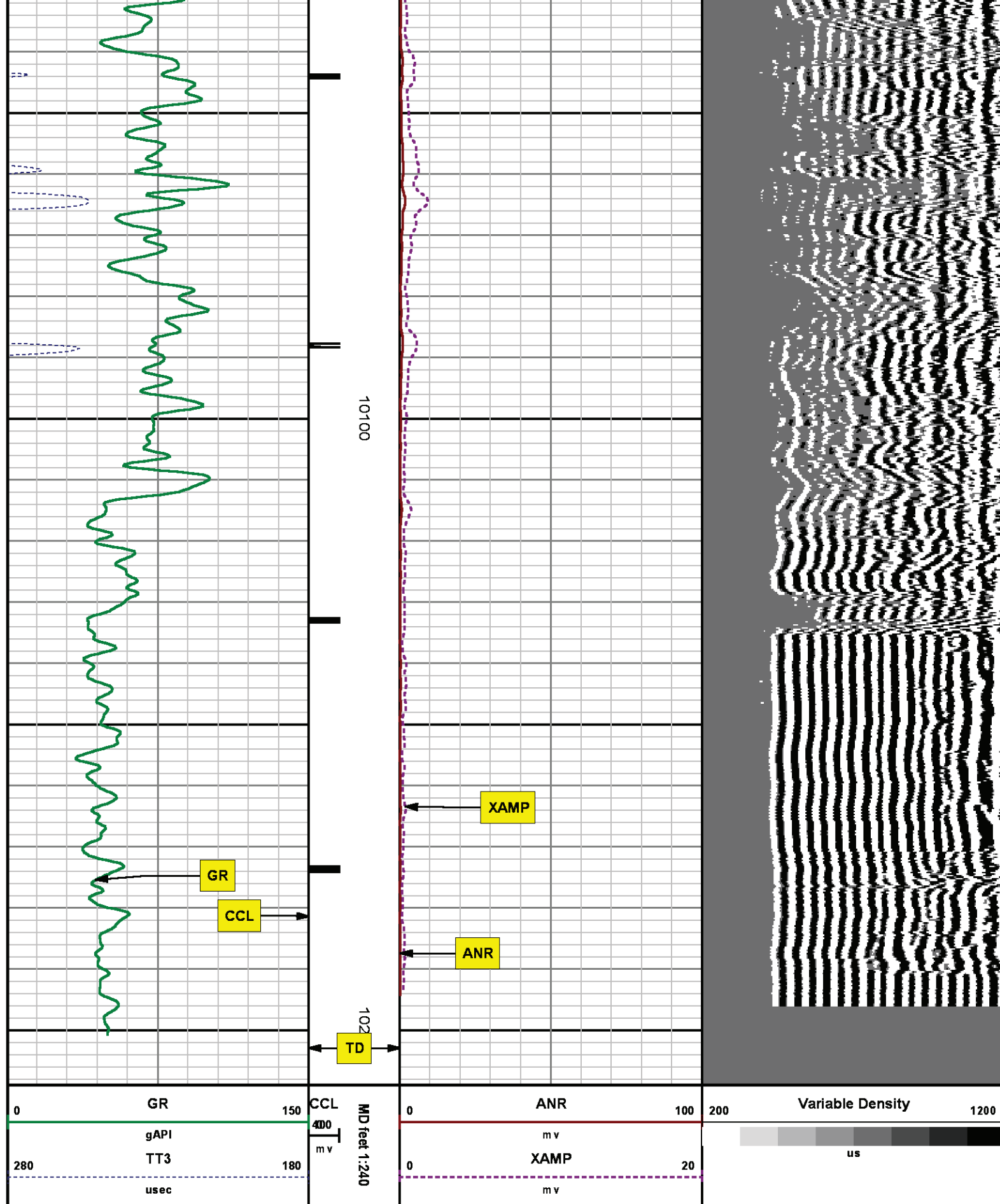




9900

10000





SECONDARY PRESENTATION

SECONDARY PRESENTATION

O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.872	10211.000
RAL	Amp Gate Start Near	195.000	usec	35.872	10211.000
RAL	Amp Gate Start Radial	195.000	usec	35.872	10211.000
RAL	Amp Gate Width Far	25.000	usec	35.872	10211.000
RAL	Amp Gate Width Near	25.000	usec	35.872	10211.000
RAL	Amp Gate Width Radial	25.000	usec	35.872	10211.000
RAL	casing od	4.500	inches	35.872	10211.000
RAL	casing wt	11.600	lbm/ft	35.872	10211.000
RAL	FB Start Far	291.900	usec	35.872	10211.000
RAL	FB Start Near	180.000	usec	35.872	10211.000
RAL	FB Start Radial	180.000	usec	35.872	10211.000
RAL	FB Thresh Far	10.000	mv	35.872	10211.000
RAL	FB Thresh Near	4.000	mv	35.872	10211.000
RAL	FB Thresh Radial	4.000	mv	35.872	10211.000
RAL	Fluid Travel Time	200.000	usec/ft	35.872	10211.872

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					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : FEDERAL NER 514-32

File Name : d:\welldata\wpx\ner 514-32\514ral\main.xtf