



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH089261

Company Well AP 524-17-695

API No: PARACHUTE

County GARFIELD State CO

05045213850000

Location

17 6S 95W SHL: 47' FNL & 2492' FWL (20 6S 95W)

AP 21-20-695 PAD BHL: 193' FSL & 2251' FWL (17 6S 95W)

NABORS 673

SEC 17 TWP 6S RGE 95W

Other Services

RPM

Permanent Datum GL Elevation 6909

Log Measured From KB 26 Above P. D.

Drill Measured From KB

Elevations

KB 6935

DF

GL 6909

Date 22/AUG/14

Run ONE

Service Order USC089261

Depth Driller 9460

Depth Logger 9422

Bottom Logged Interval 9412

Top Logged Interval 26

Time Started 7:00

Time Finished 11:00

Operator Rig Time 4 HOURS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 76

Logged Cement Top NA

Wellhead Pressure 0

Maximum Hole Deviation NA

Nominal Logging Speed 65

Maximum Recorded Temperature 262

Reference Log NA

Equipment No. Location 4271 GRAND JUNCTION

Recorded By NEMELL

Witnessed By GRAN JACOBS

- 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	2503
8.75	2503	9493

## Casing Record

Size	Weight	Grade	From	To
9.625			0	2503
4.5	11.6	1-80	0	9493

## 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 2 feet.

Logged with zero PSI at wellhead.

BHT = 252 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	1355XA	11871510	CENTRALIZED

PRIMARY PRESENTATION

0 PSI

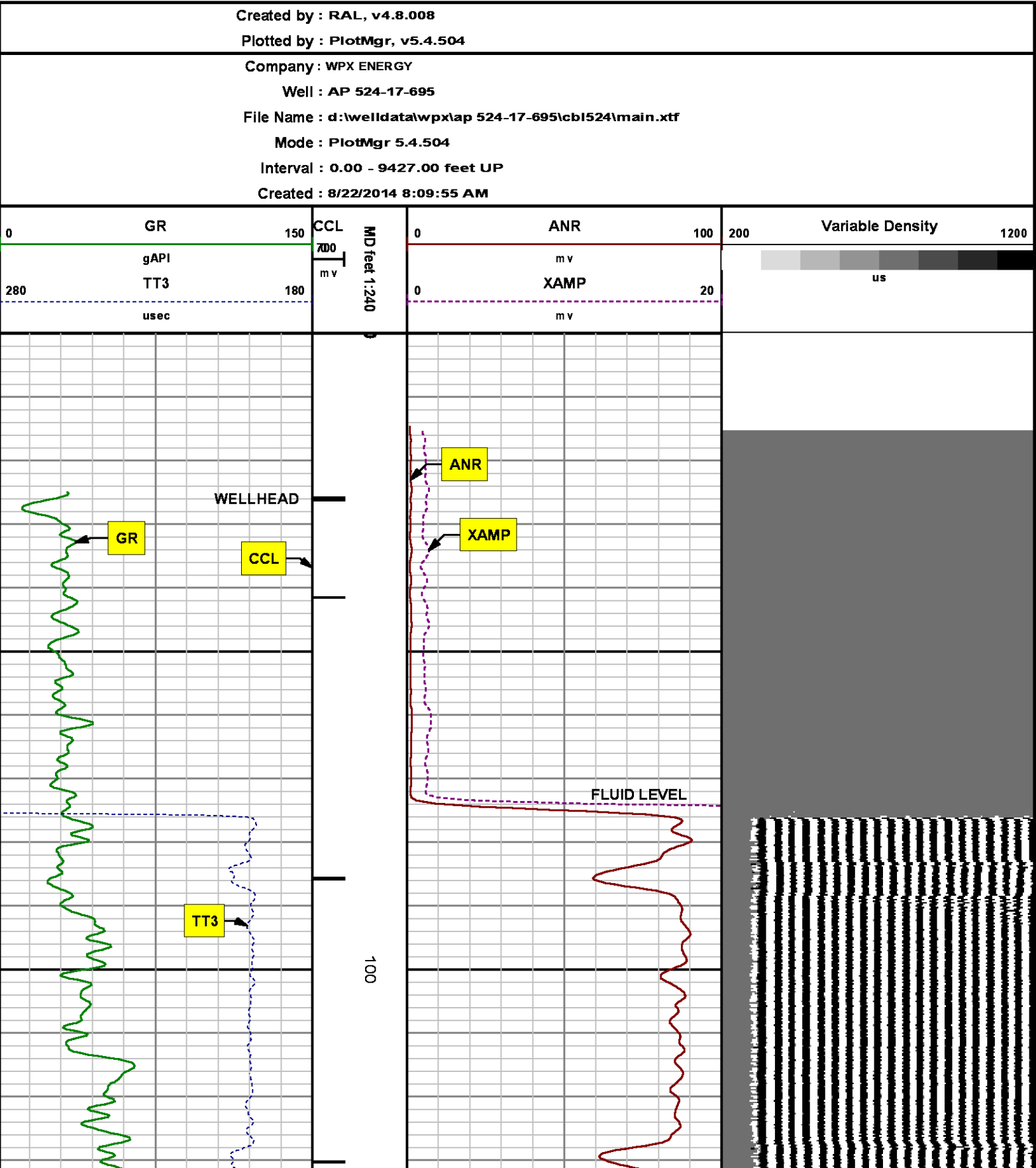
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	25.093	9427.000
RAL	Amp Gate Start Near	195.000	usec	25.093	9427.000
RAL	Amp Gate Start Radial	195.000	usec	25.093	9427.000
RAL	Amp Gate Width Far	25.000	usec	25.093	9427.000
RAL	Amp Gate Width Near	25.000	usec	25.093	9427.000
RAL	Amp Gate Width Radial	25.000	usec	25.093	9427.000
RAL	casing od	4.500	inches	25.093	9427.000
RAL	casing wt	11.600	lbm/ft	25.093	9427.000
RAL	FB Start Far	291.900	usec	25.093	9427.000
RAL	FB Start Near	175.391	usec	25.093	9427.000
RAL	FB Start Radial	175.391	usec	25.093	9427.000
RAL	FB Thresh Far	10.000	mv	25.093	9427.000
RAL	FB Thresh Near	4.000	mv	25.093	9427.000
RAL	FB Thresh Radial	4.000	mv	25.093	9427.000
RAL	Fluid Travel Time	200.000	usec/ft	25.093	9427.000

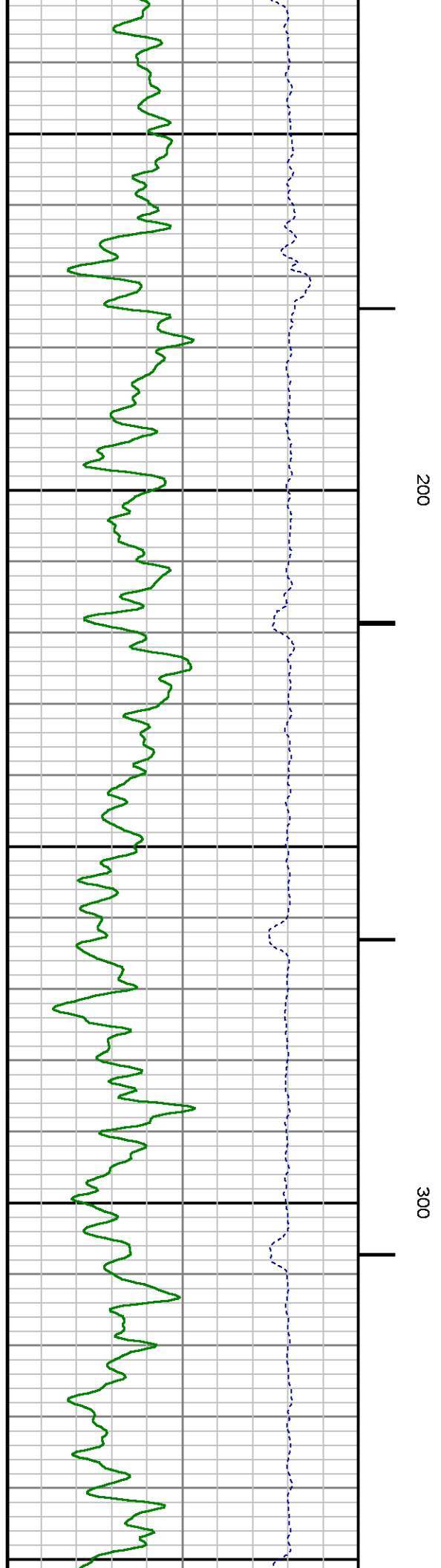
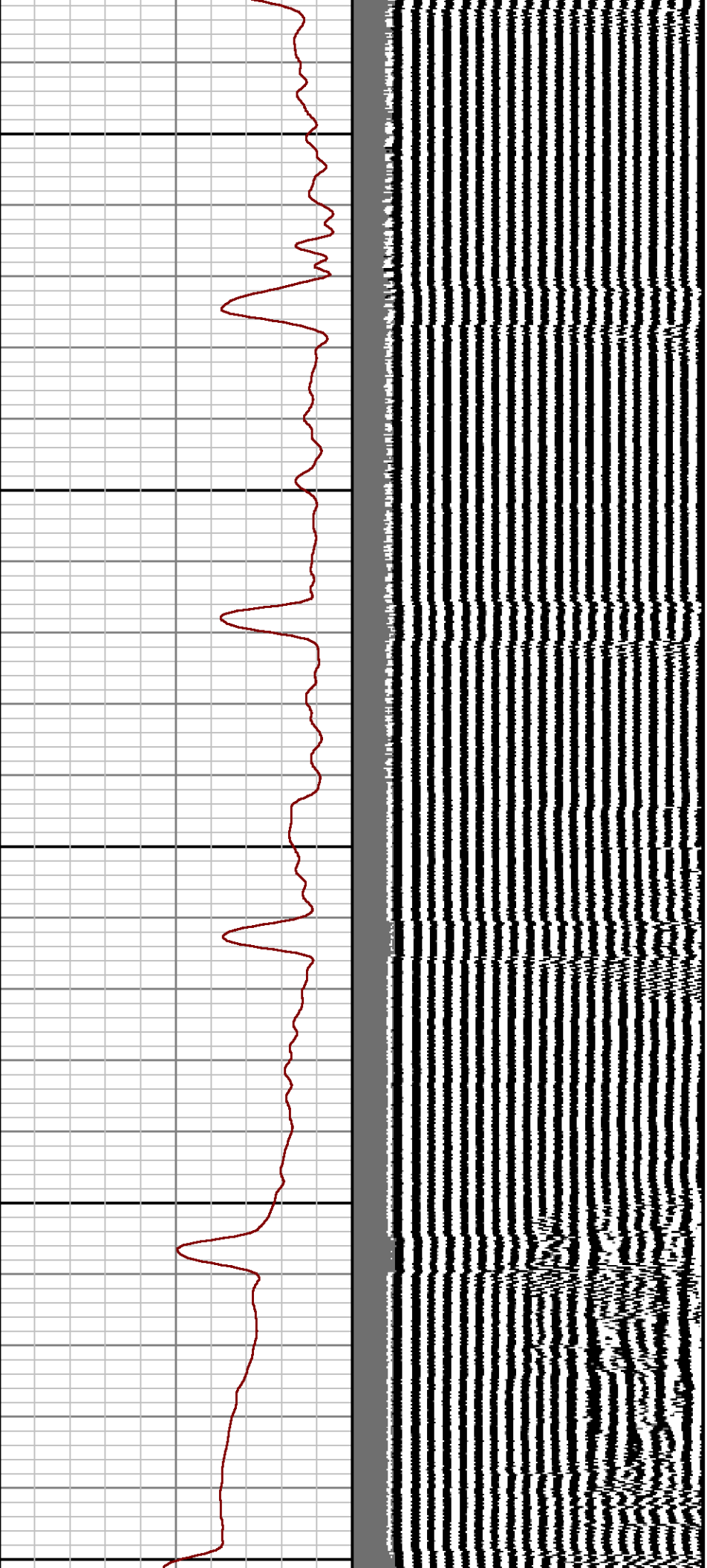
DEPTH OFFSETS

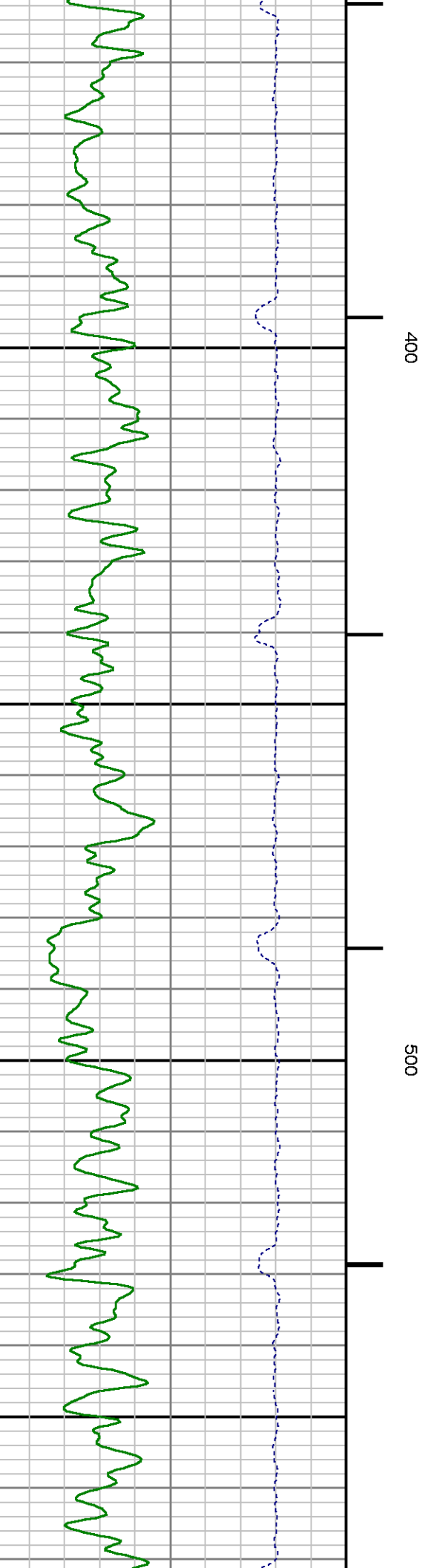
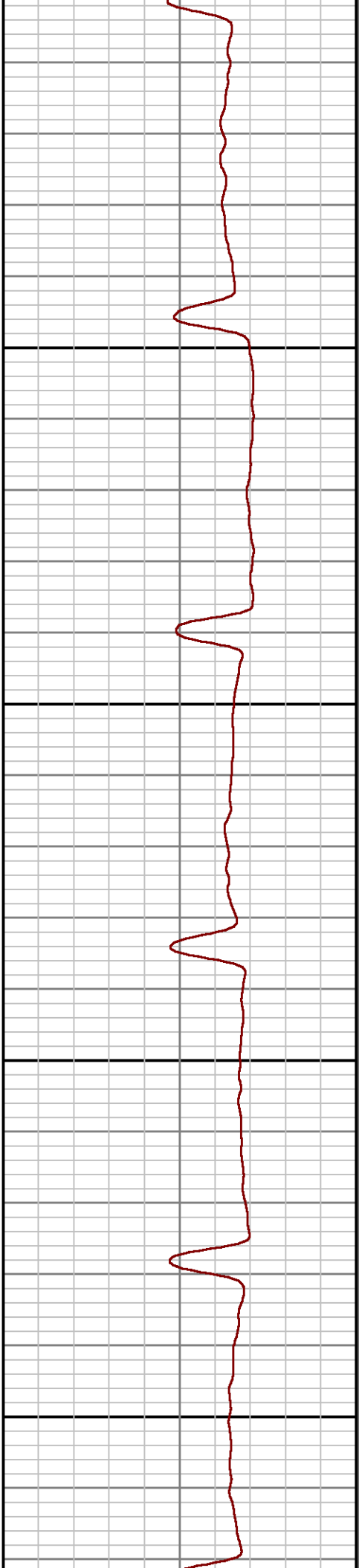
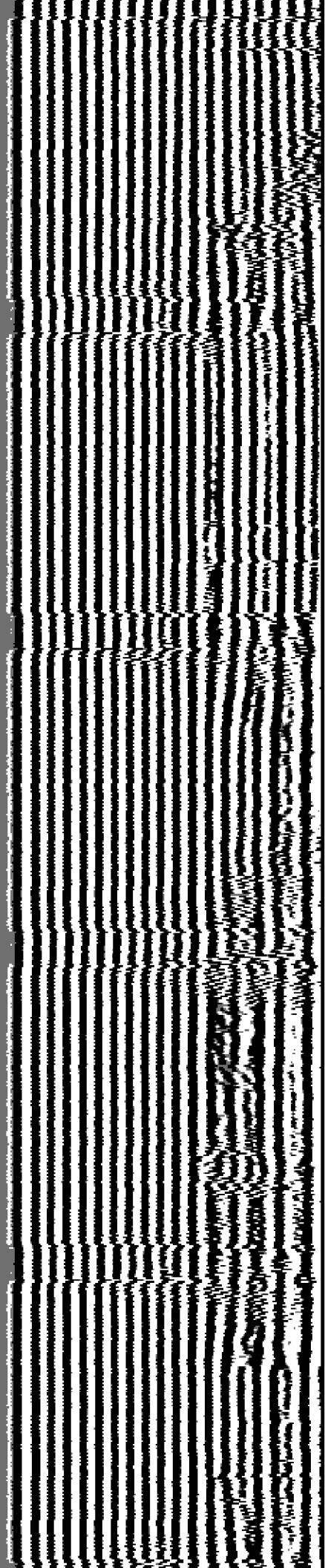
(for Acquired Curves)

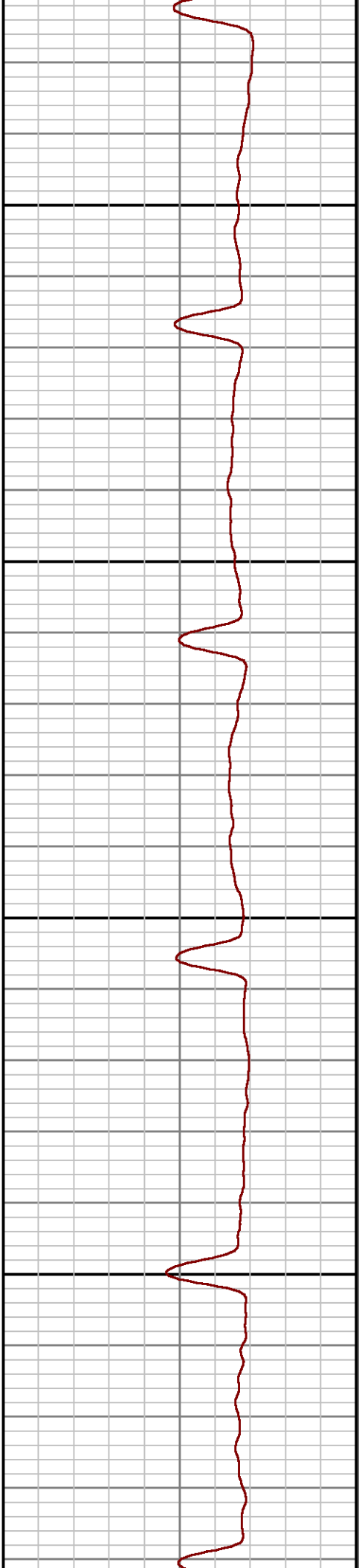
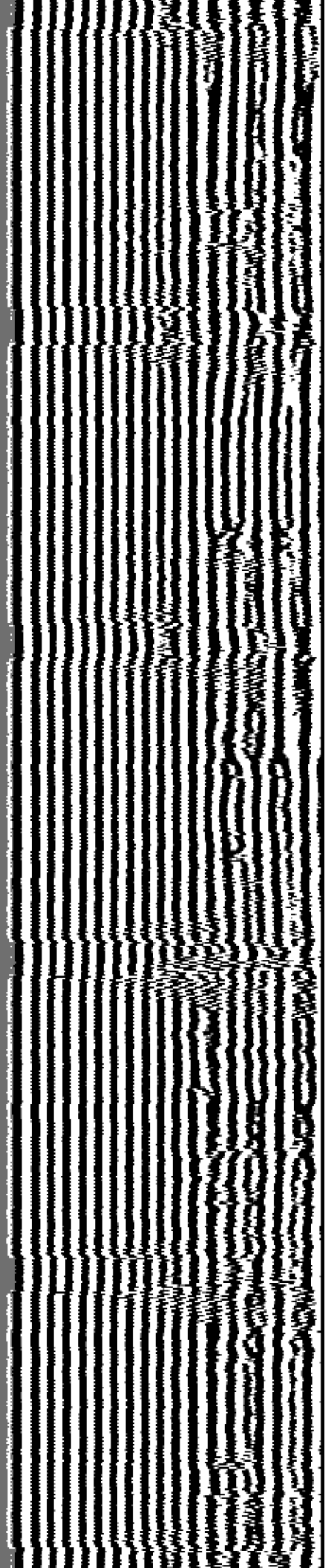
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		

		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					



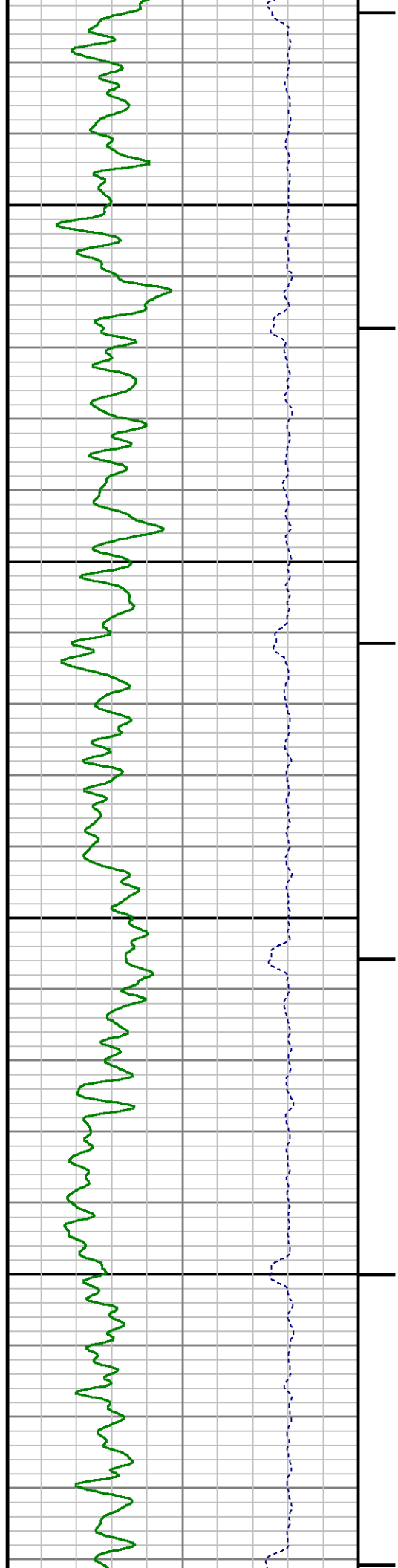


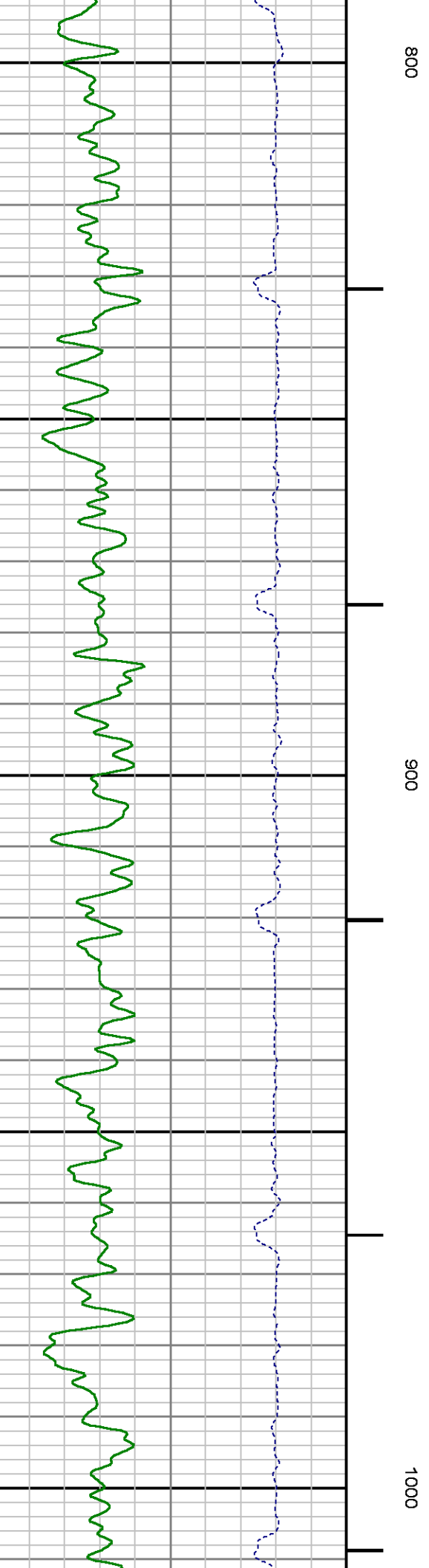
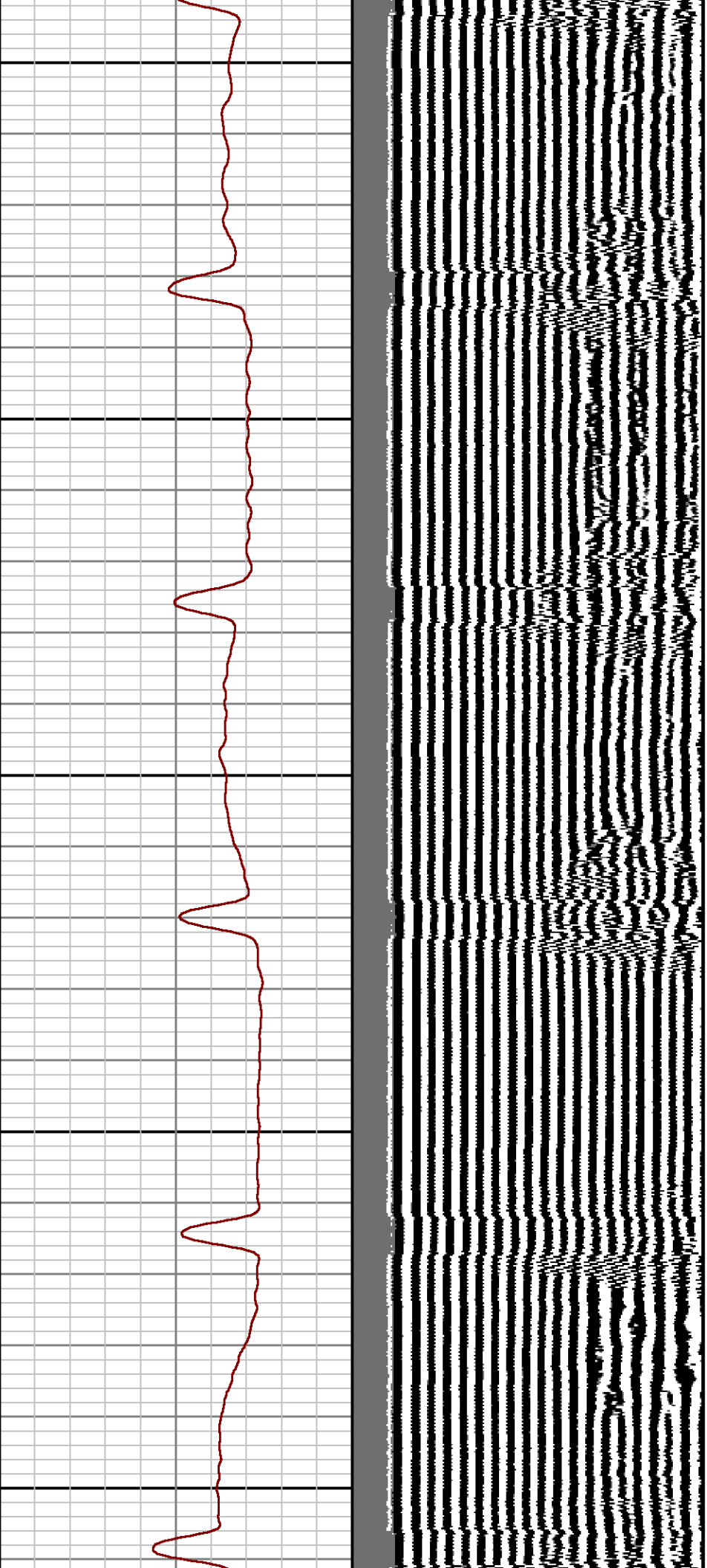




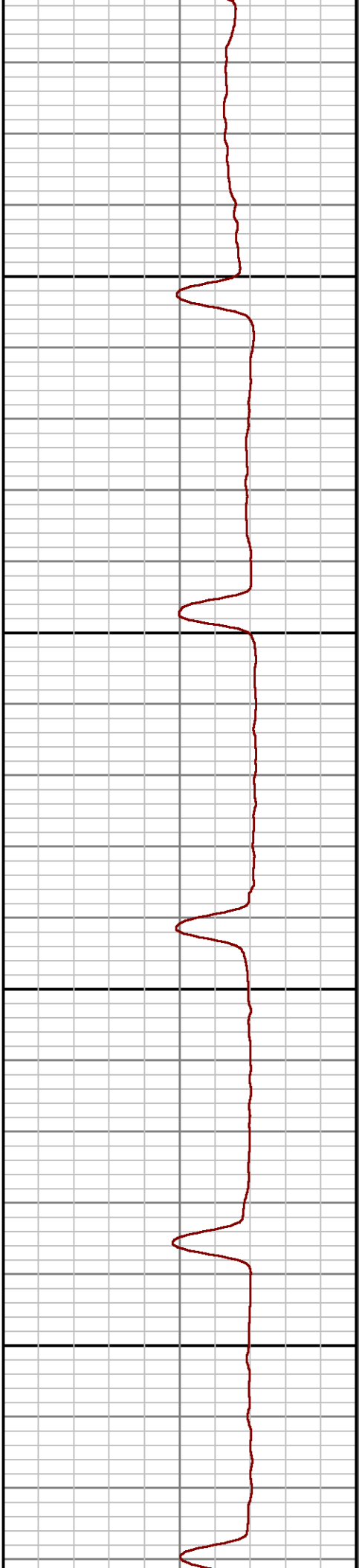
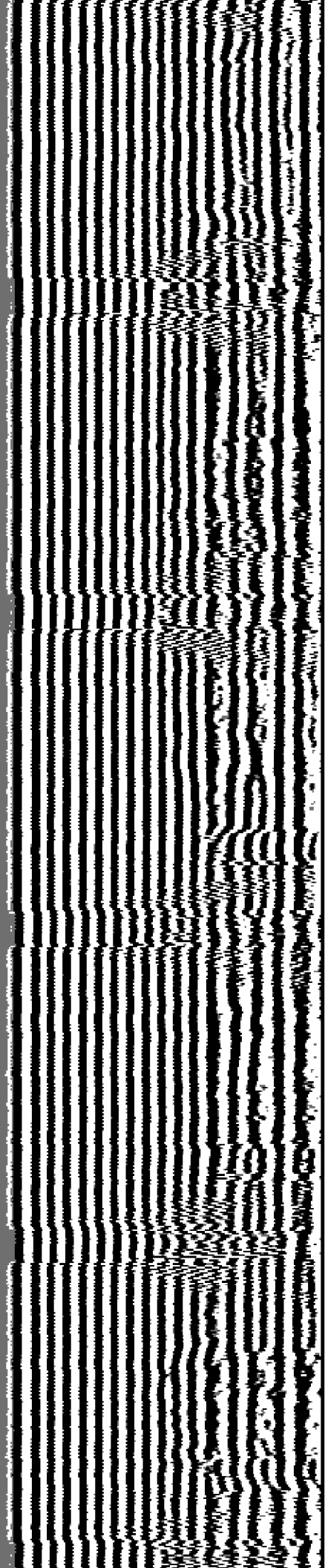
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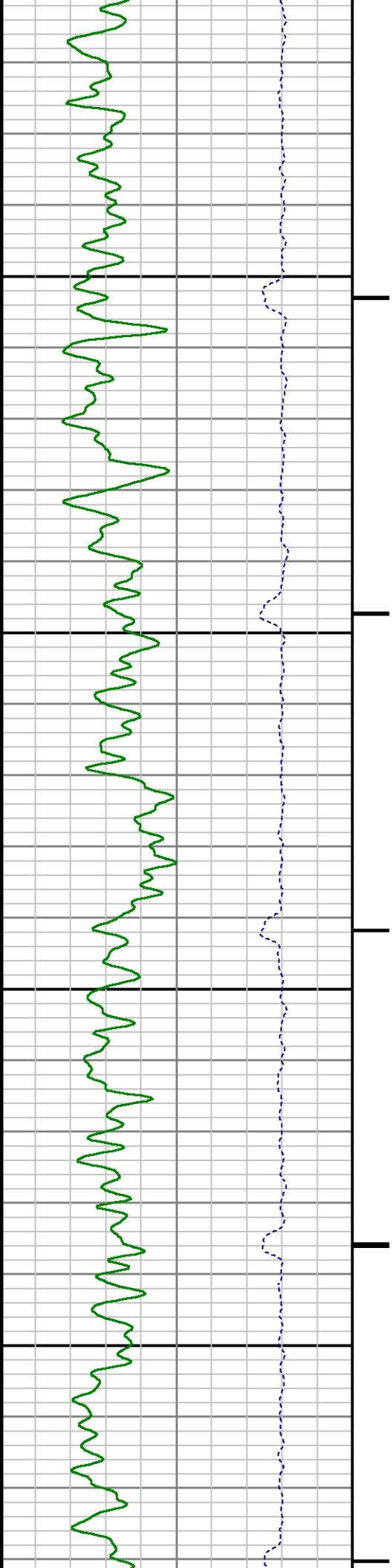




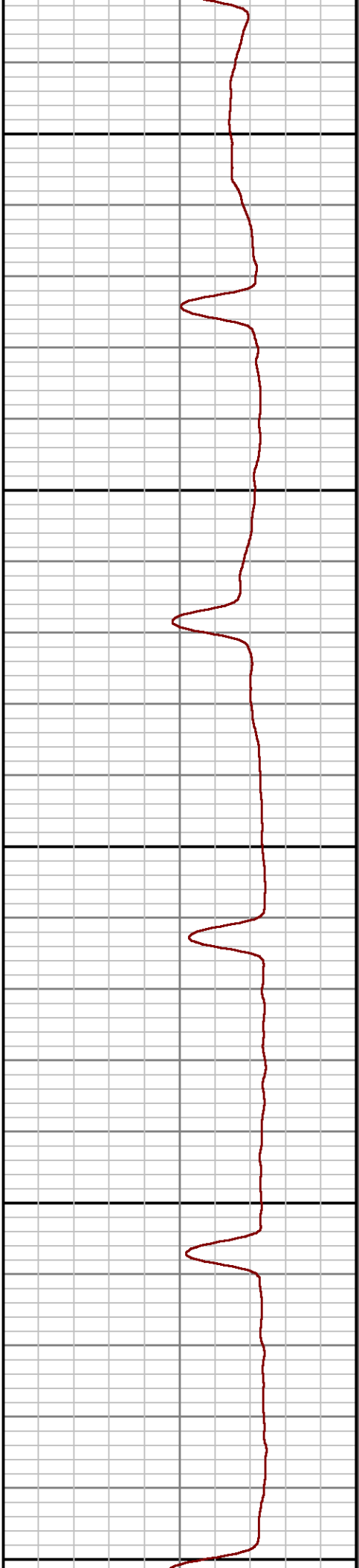
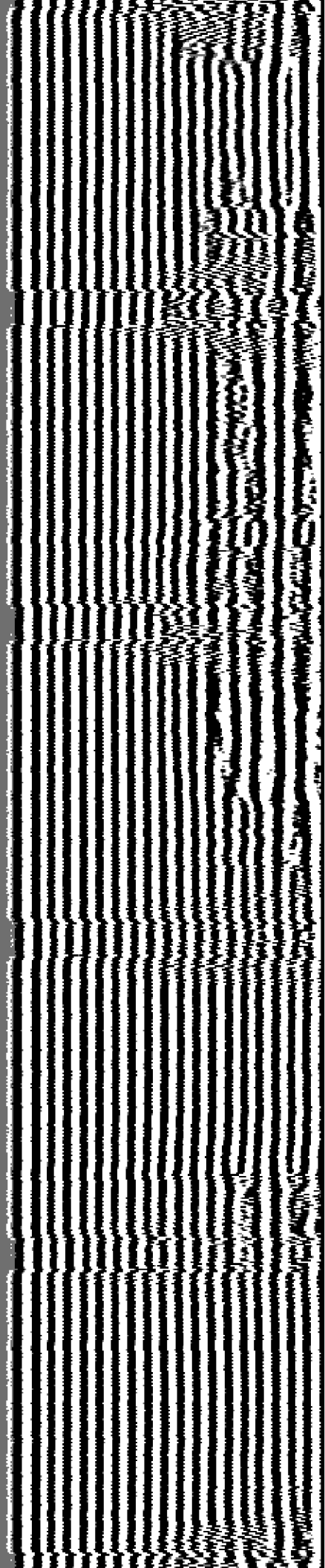


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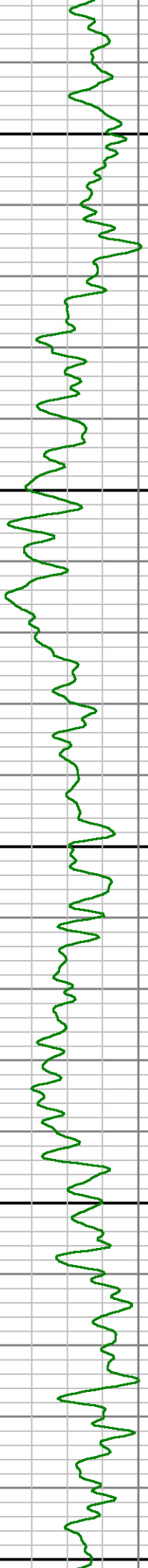
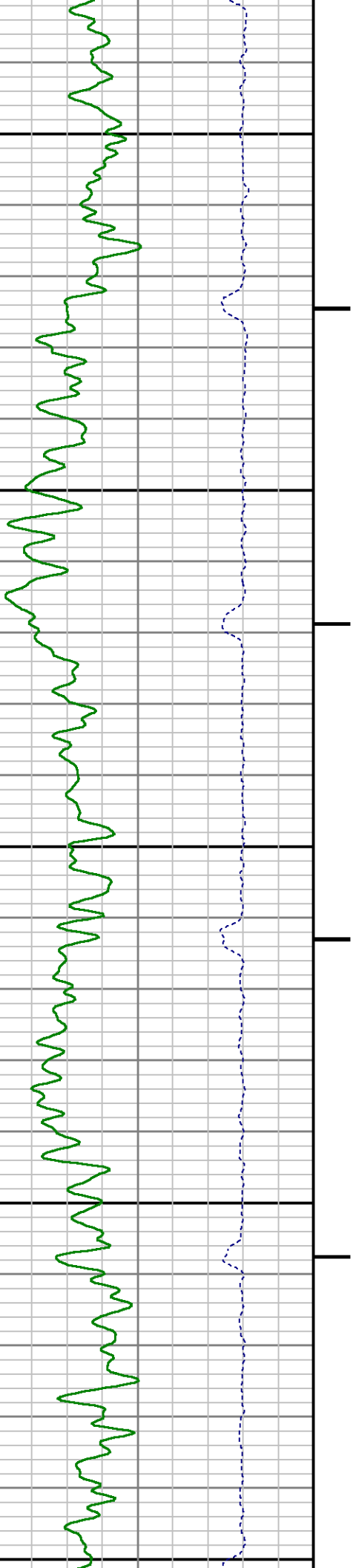


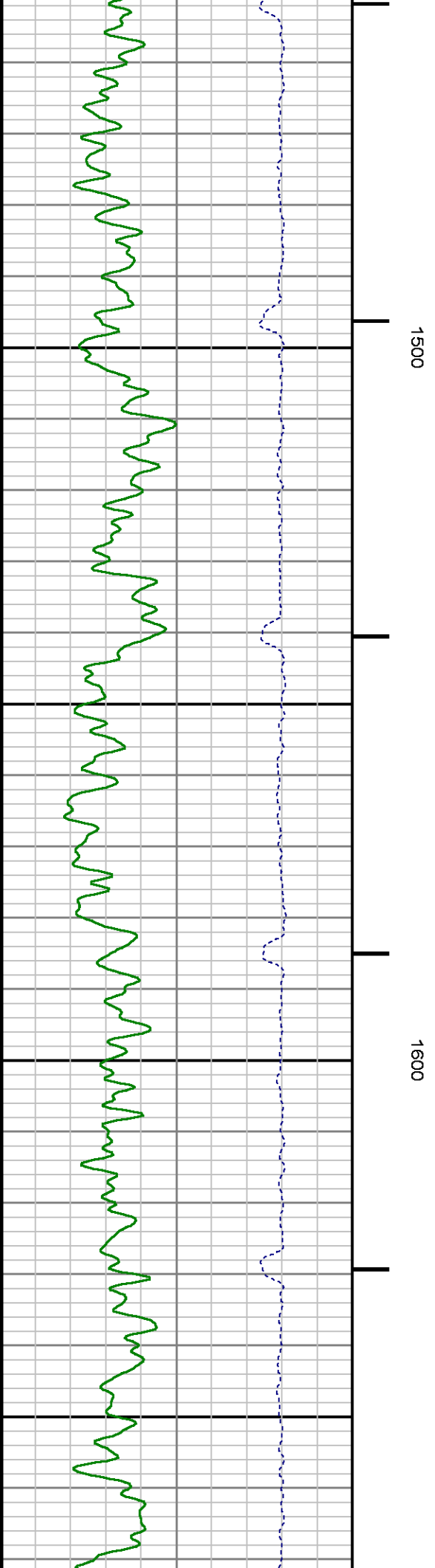
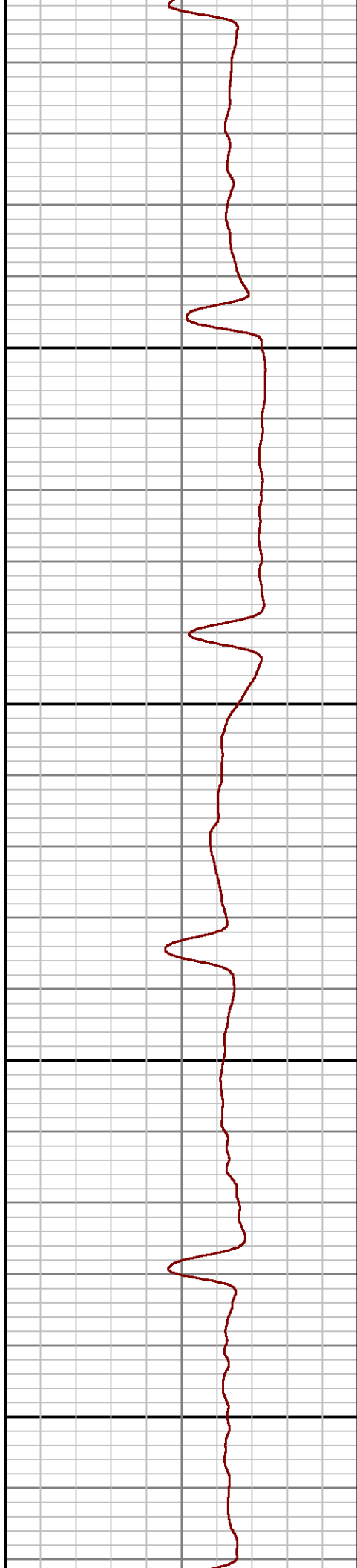
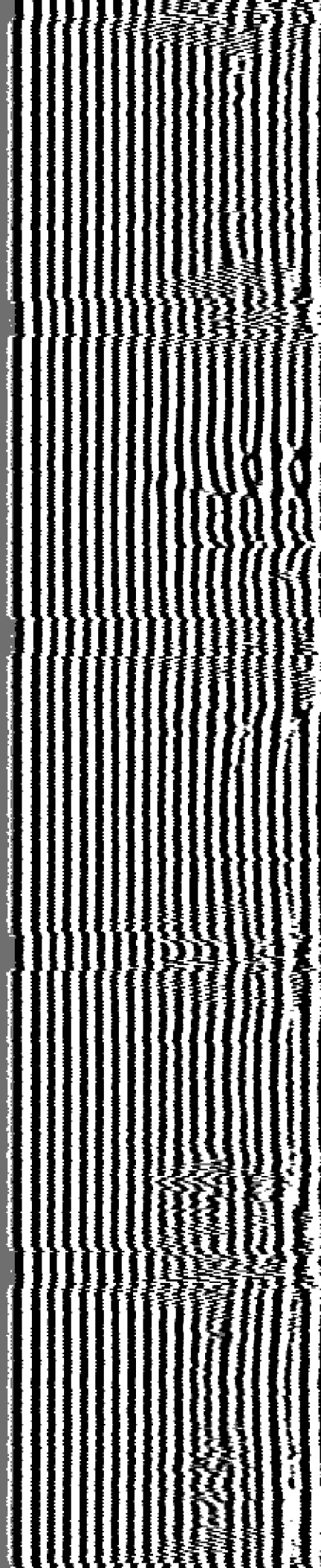


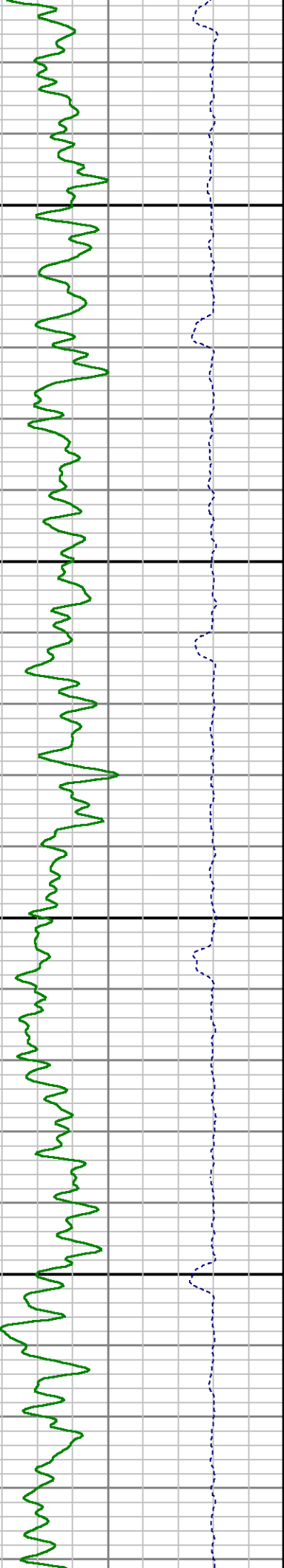
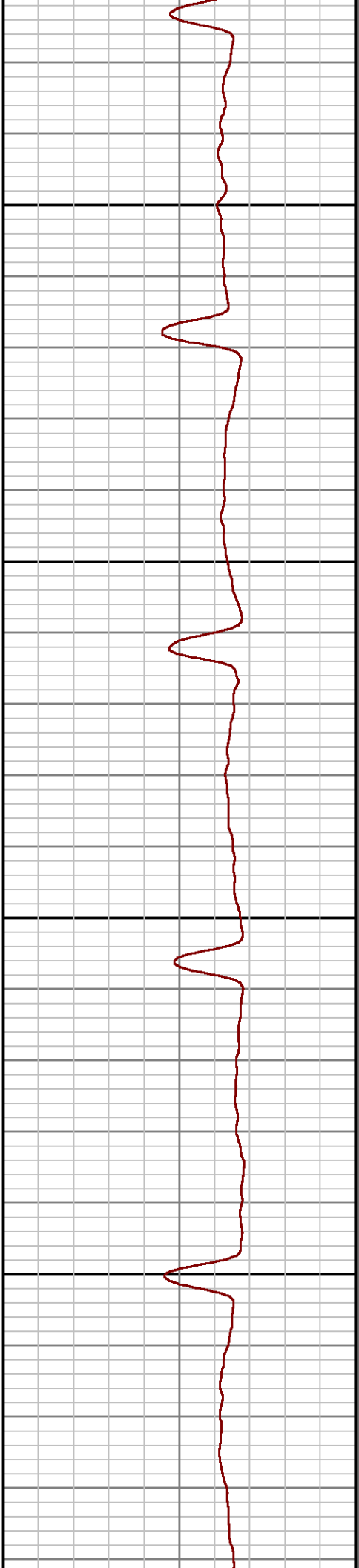
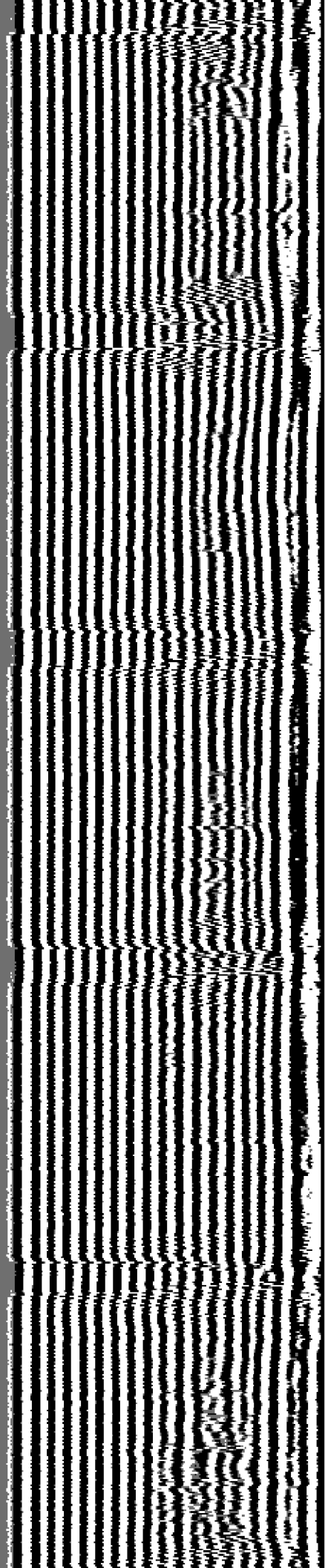


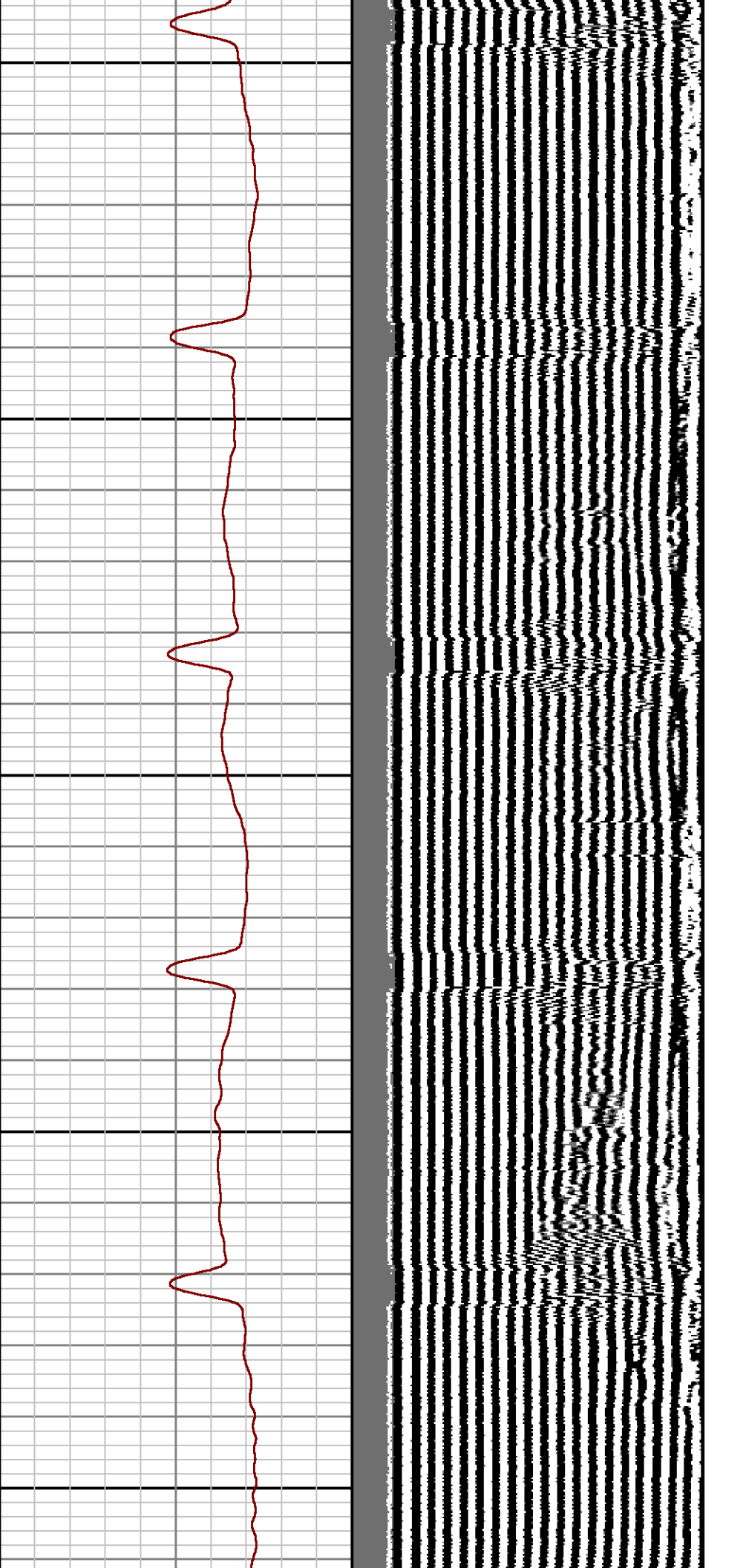
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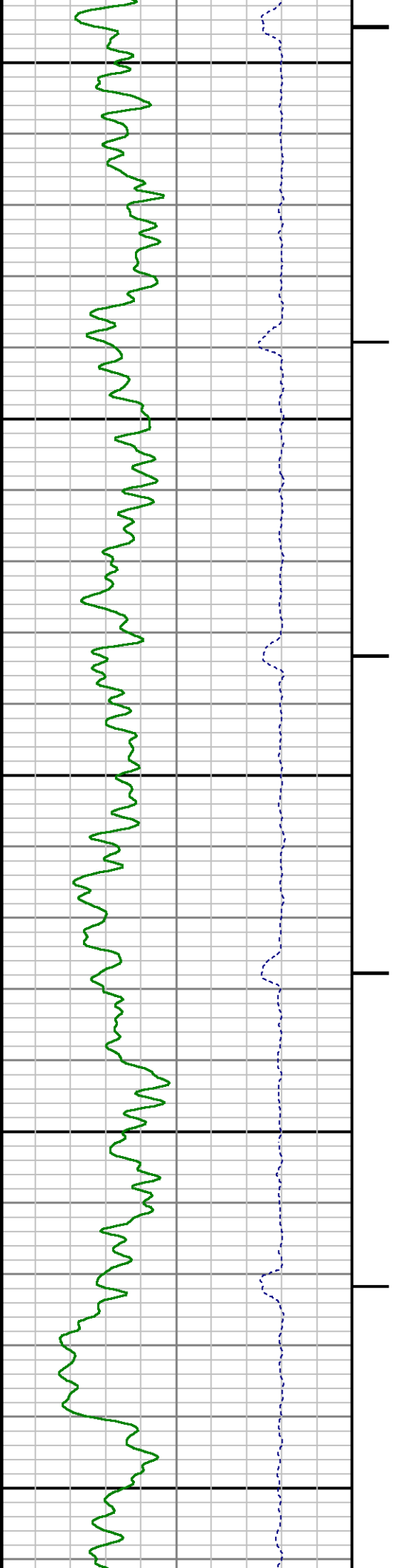


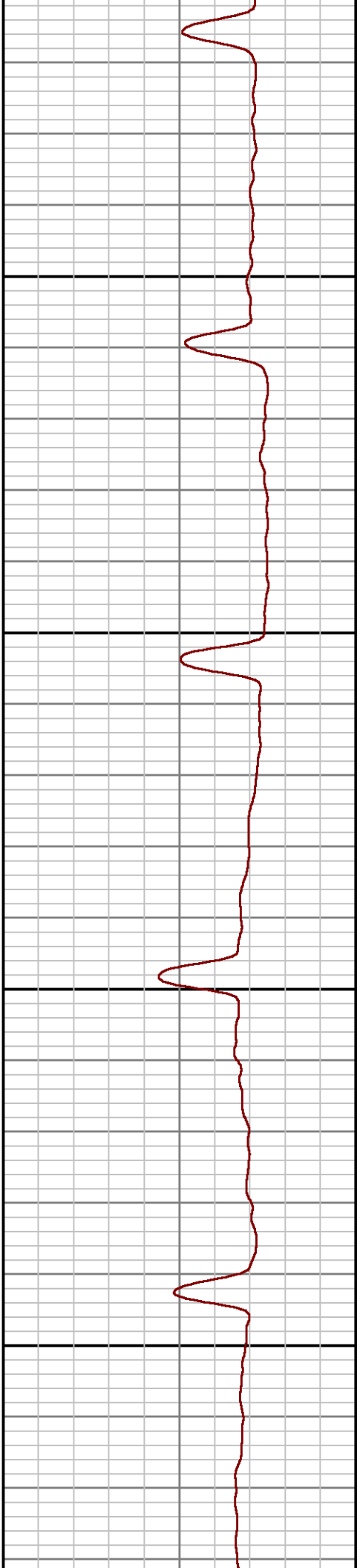
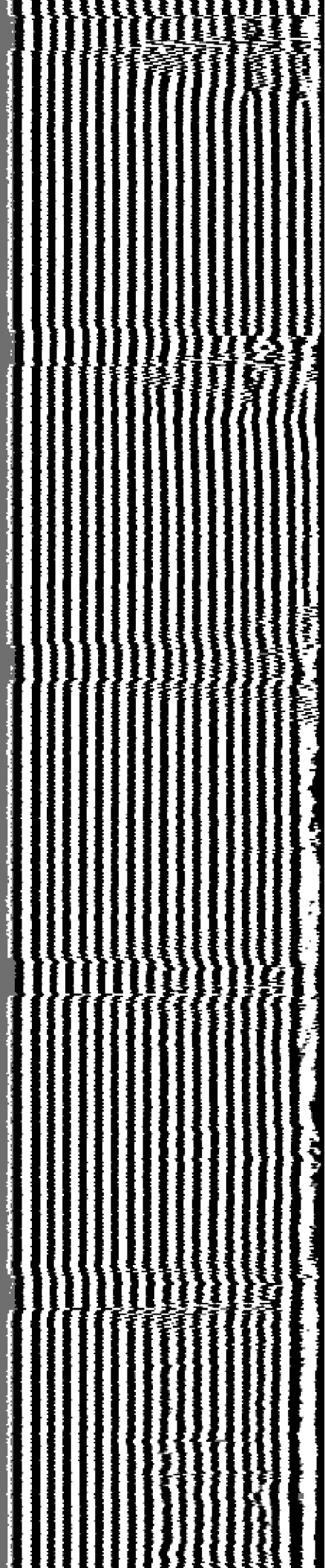


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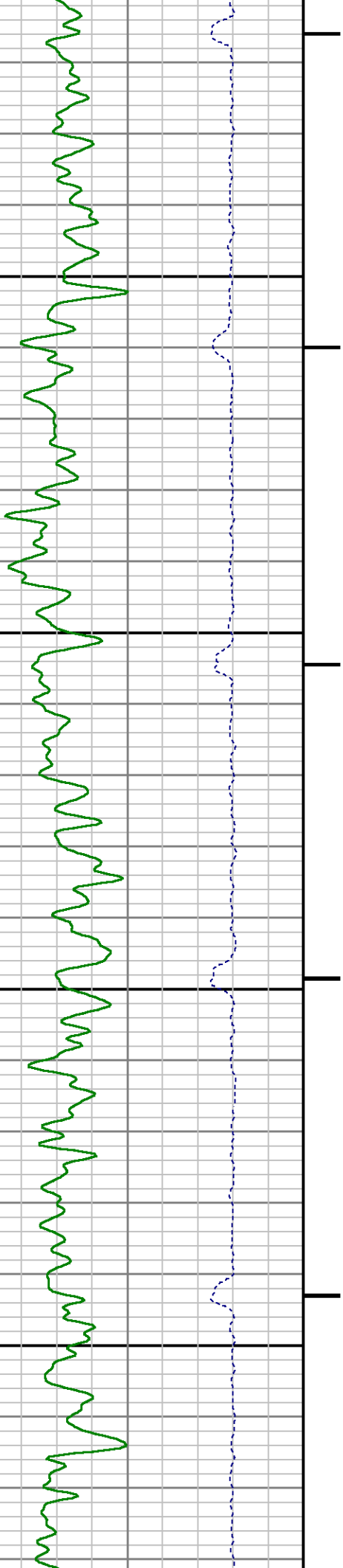
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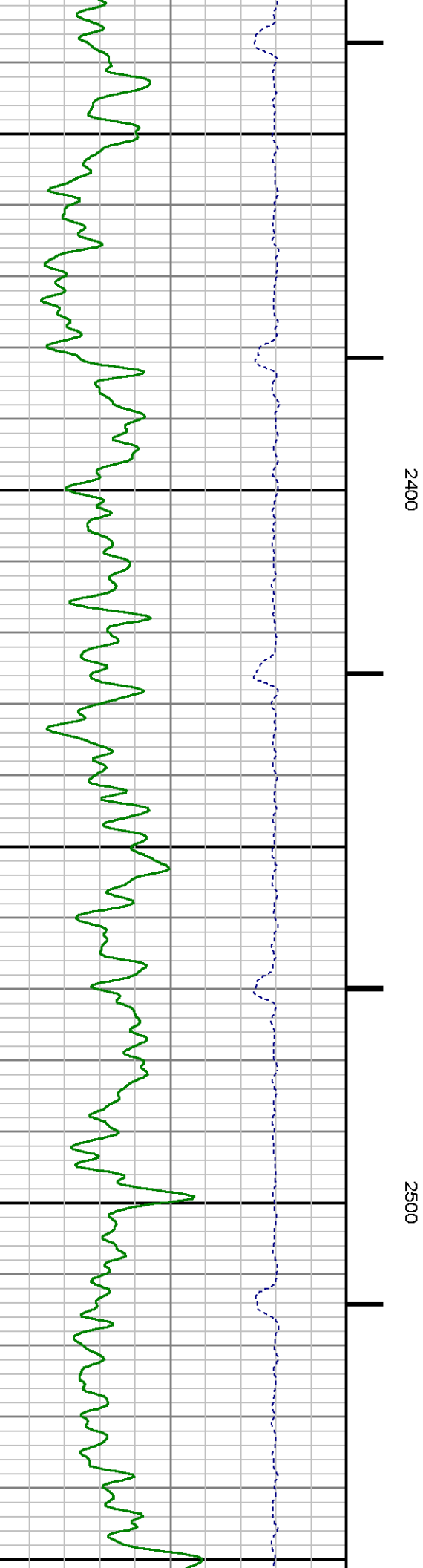
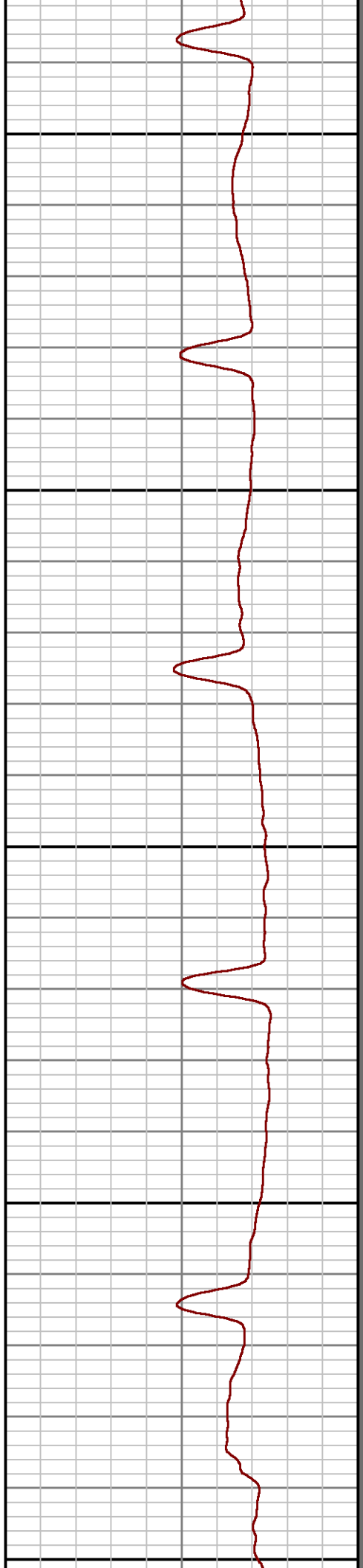
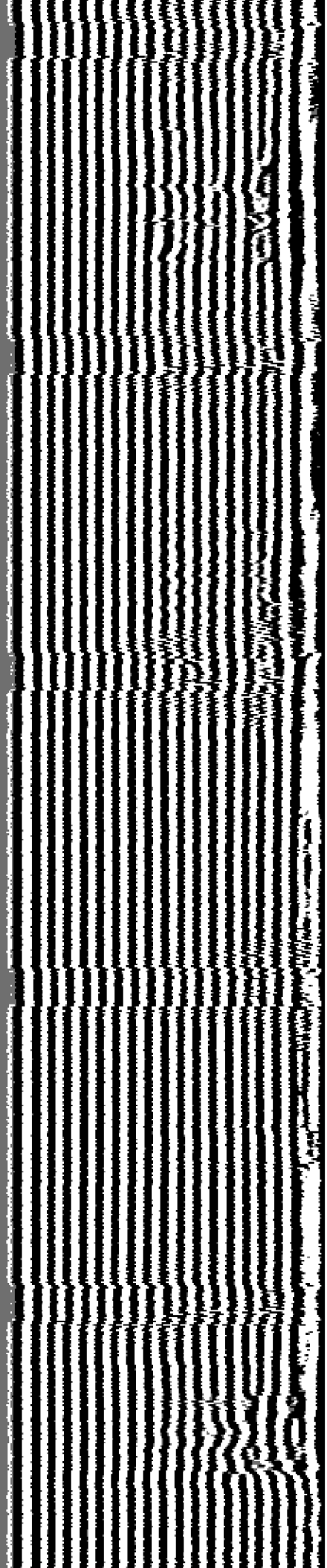




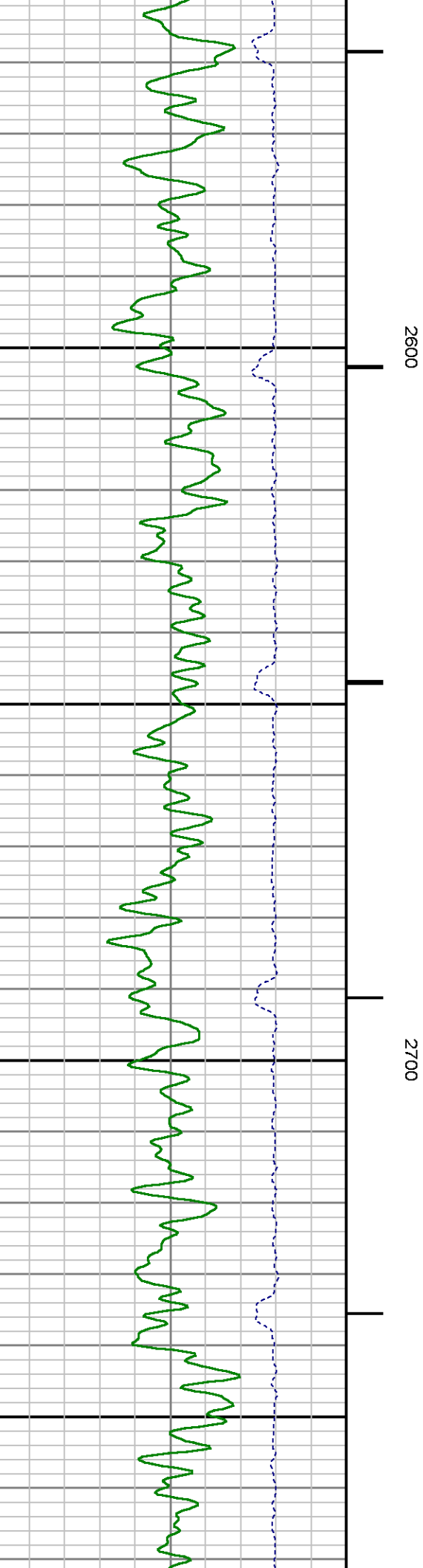
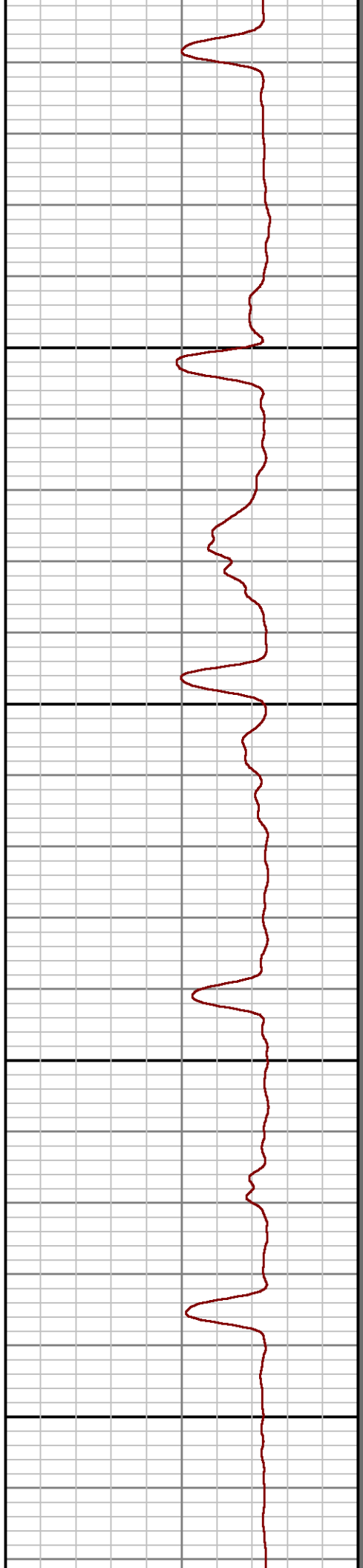
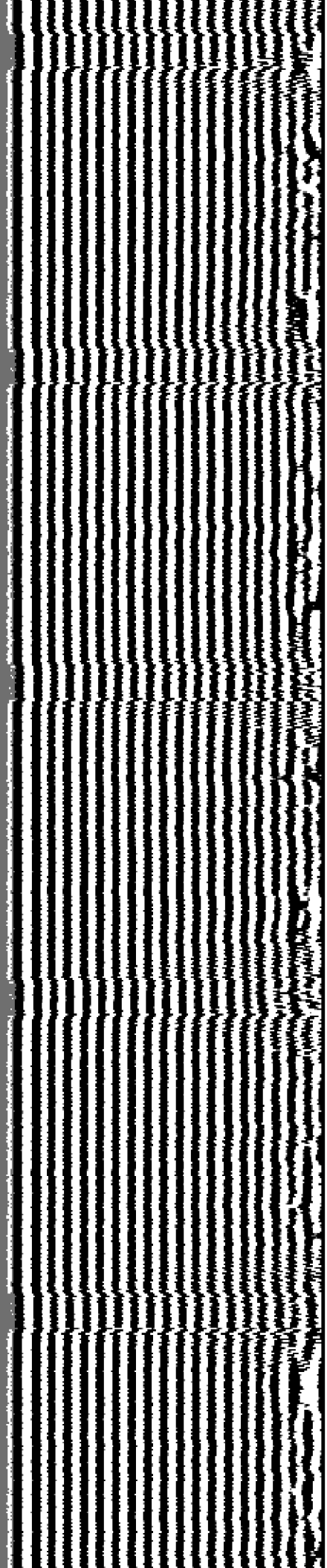
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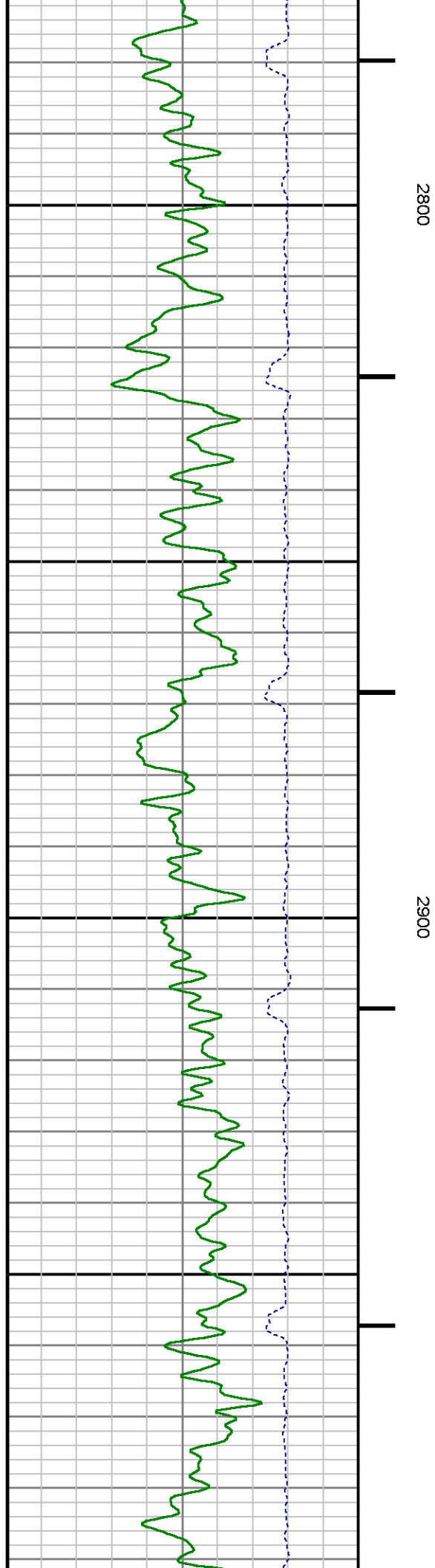
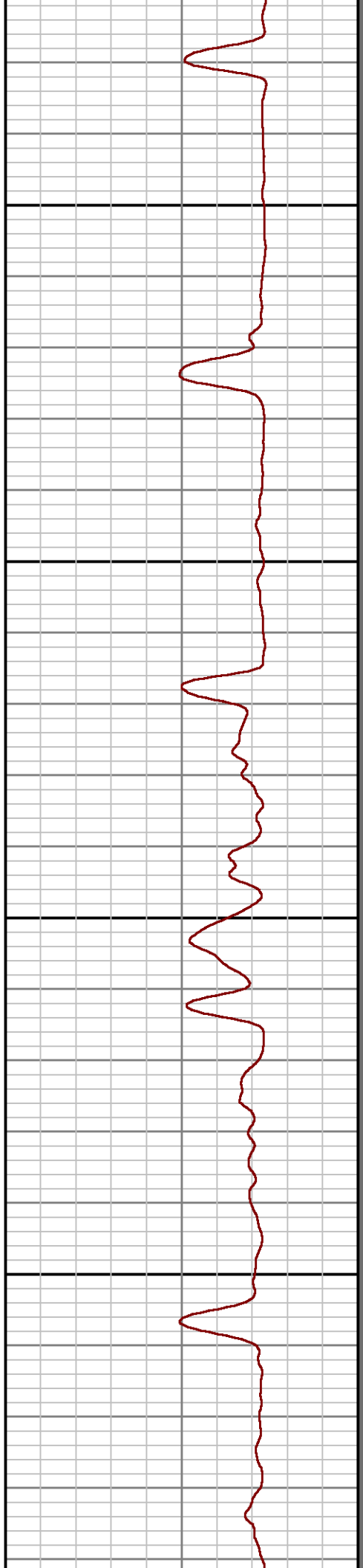
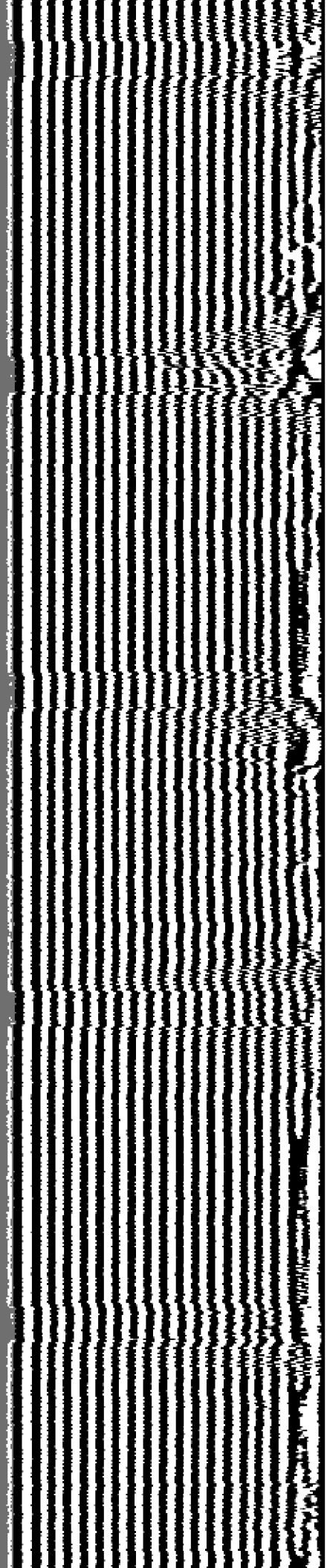


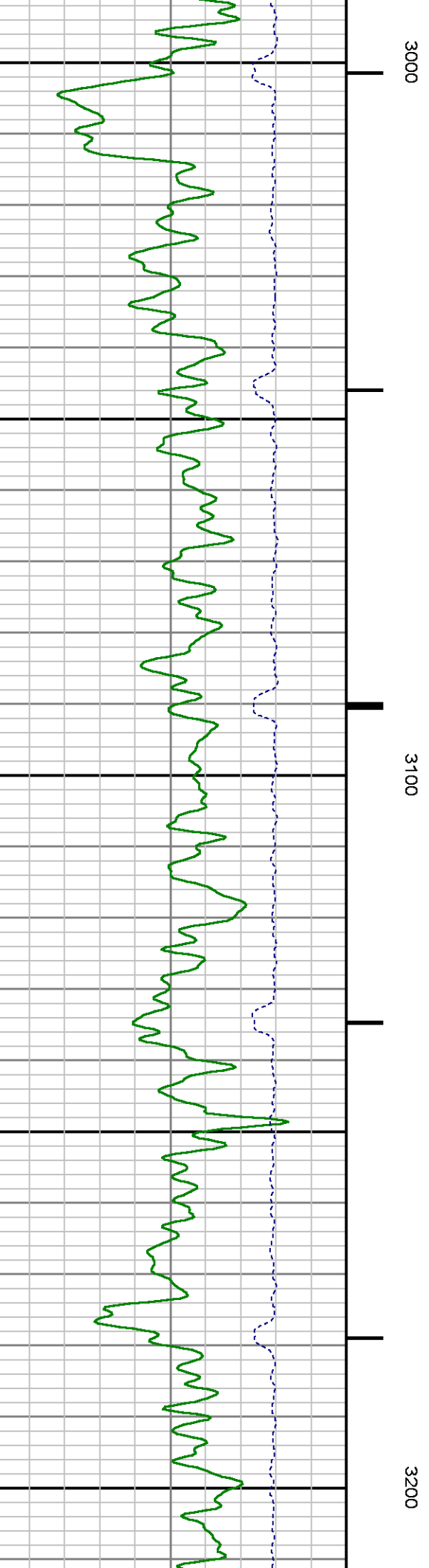
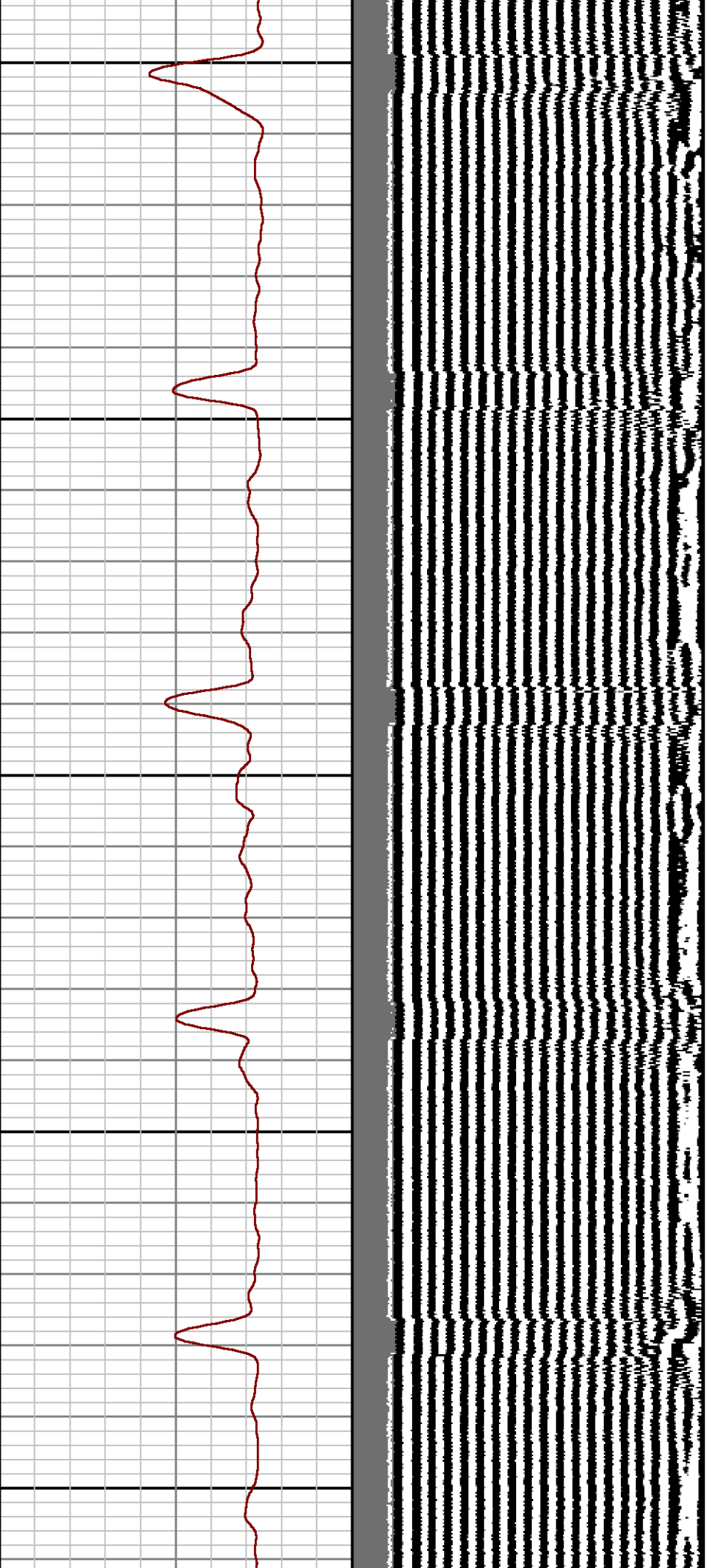


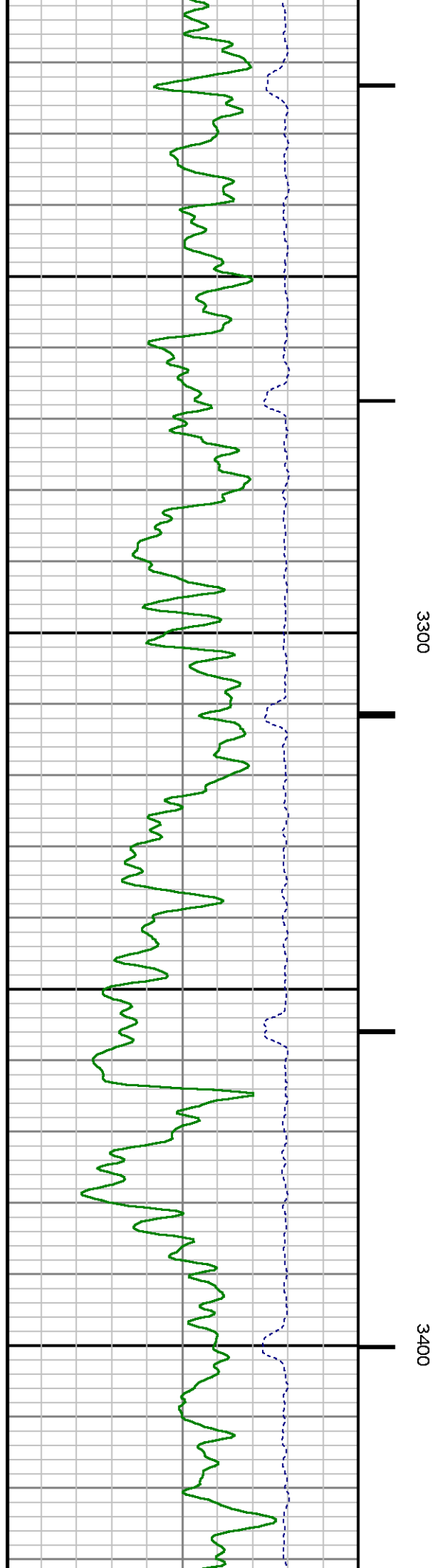
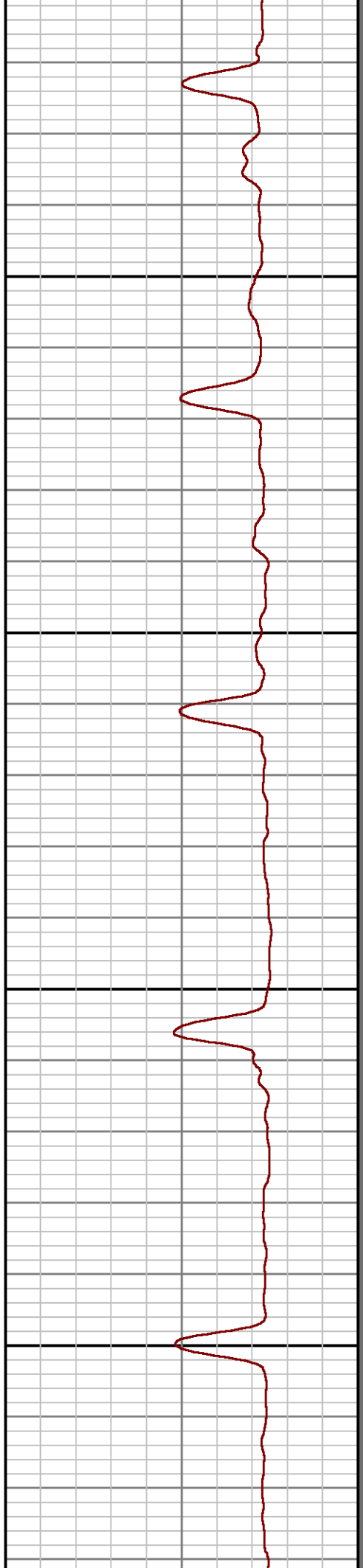
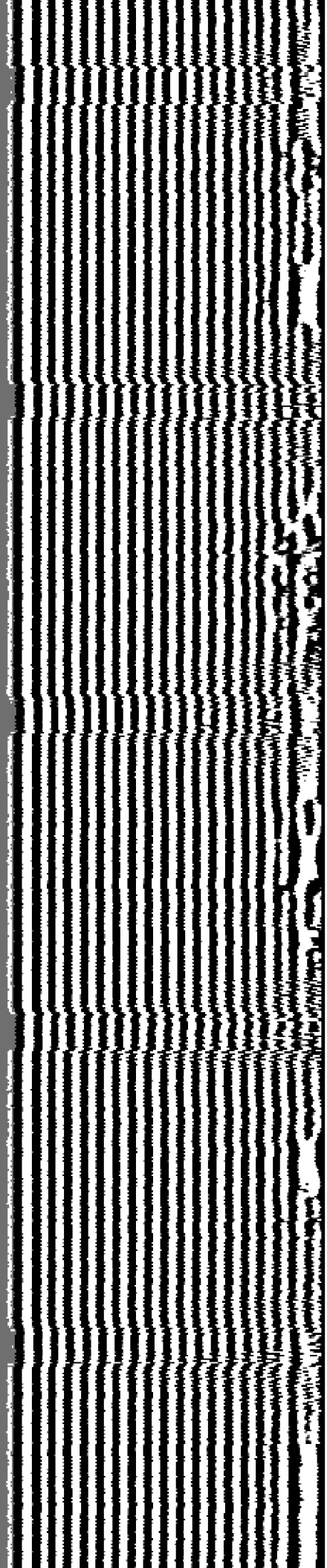


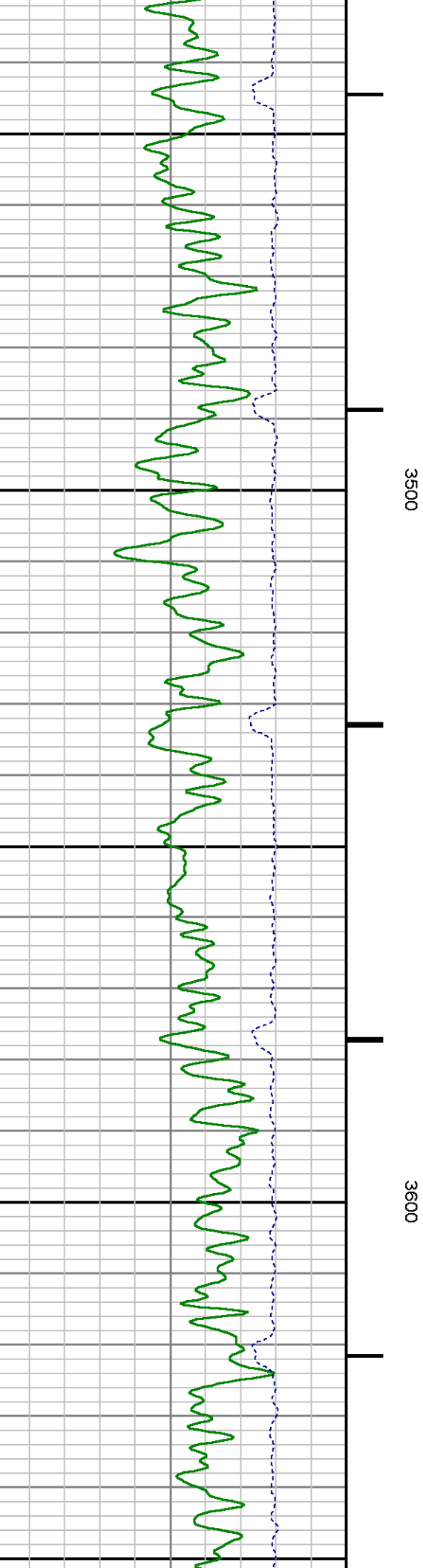
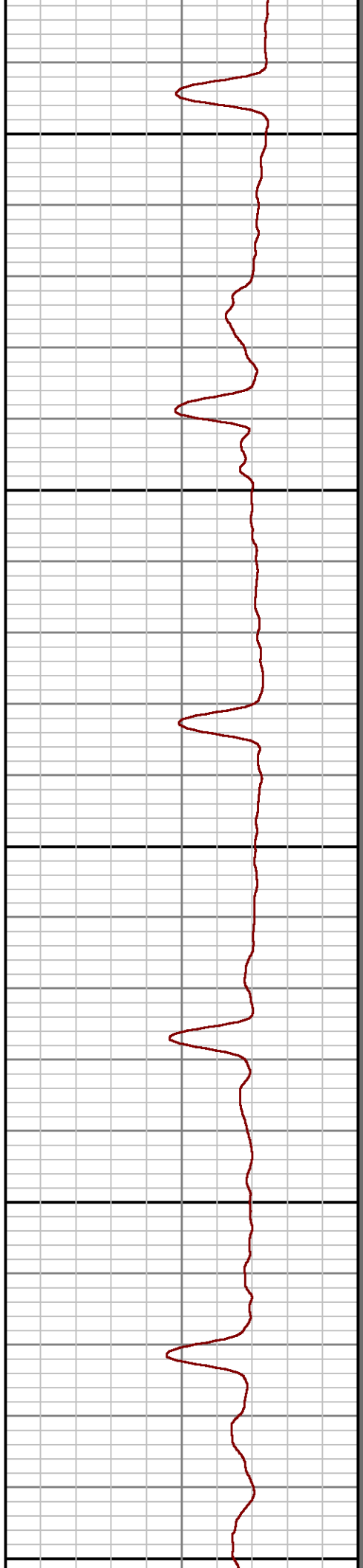
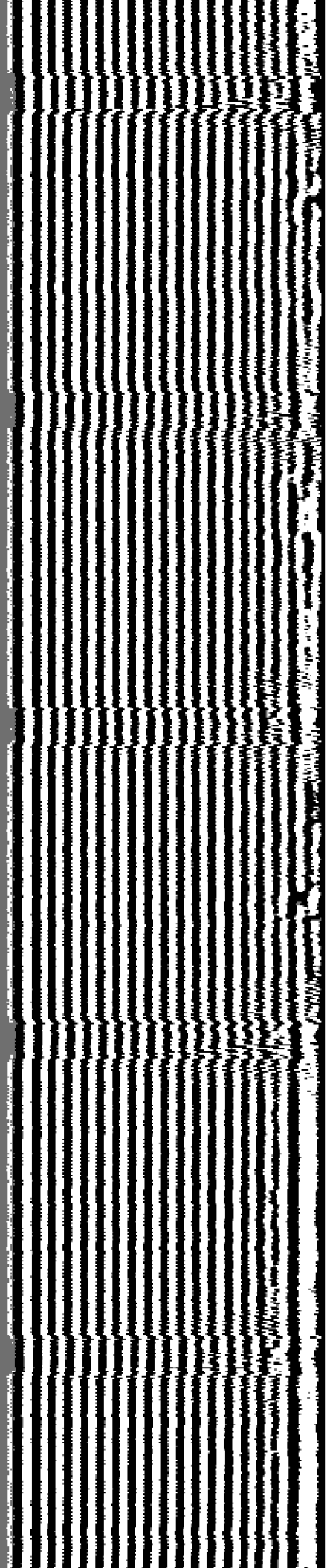


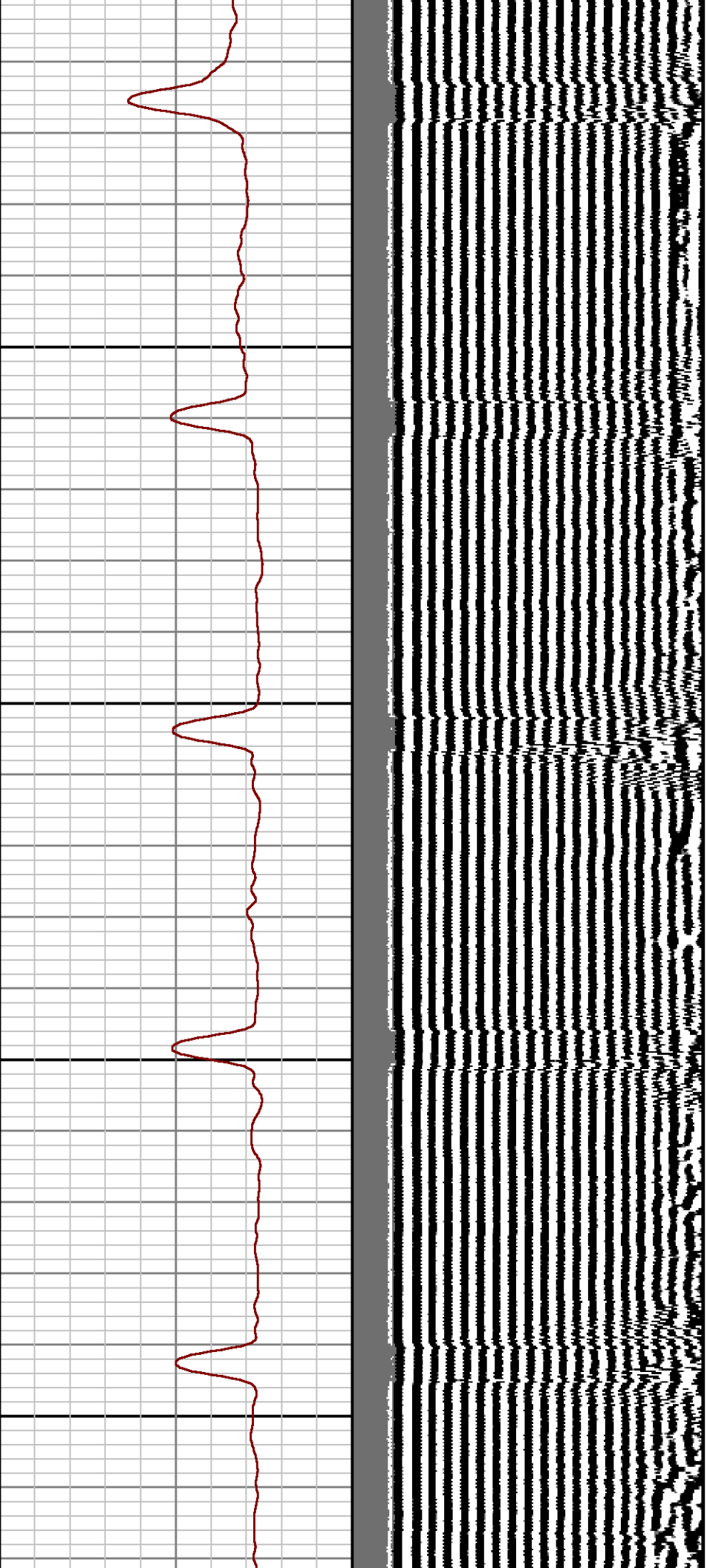






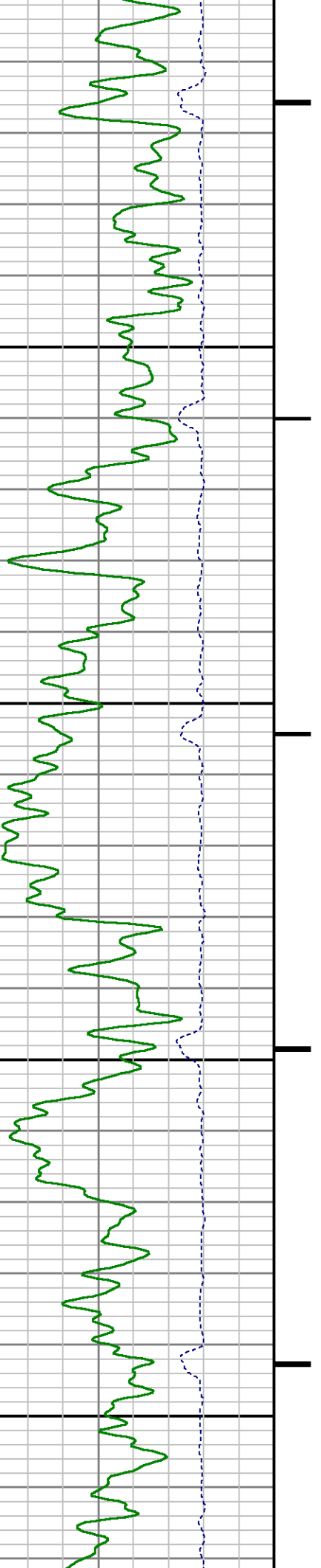


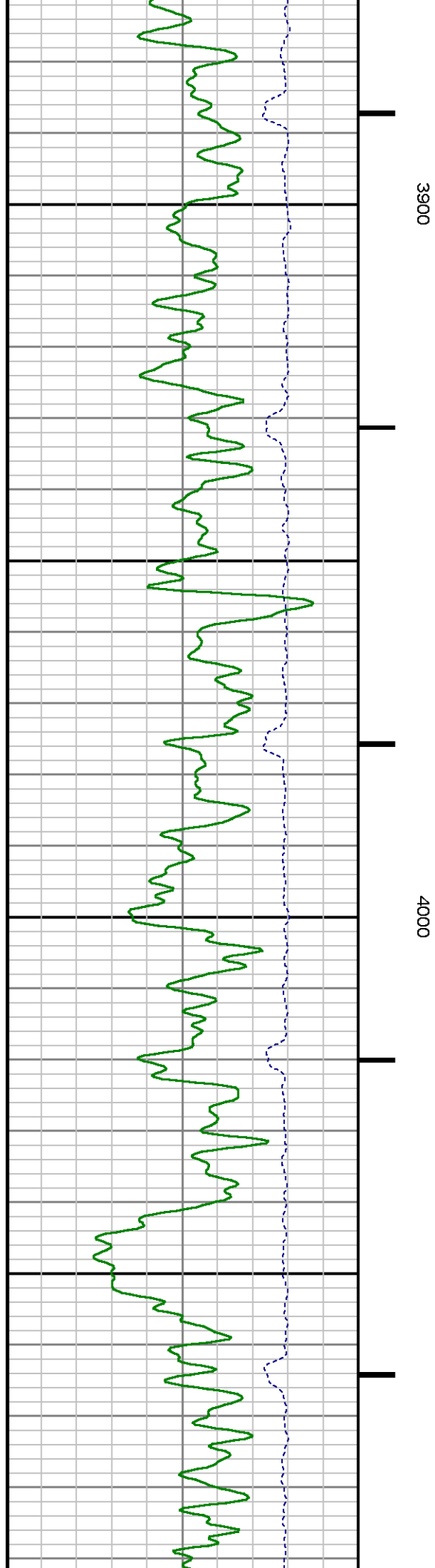
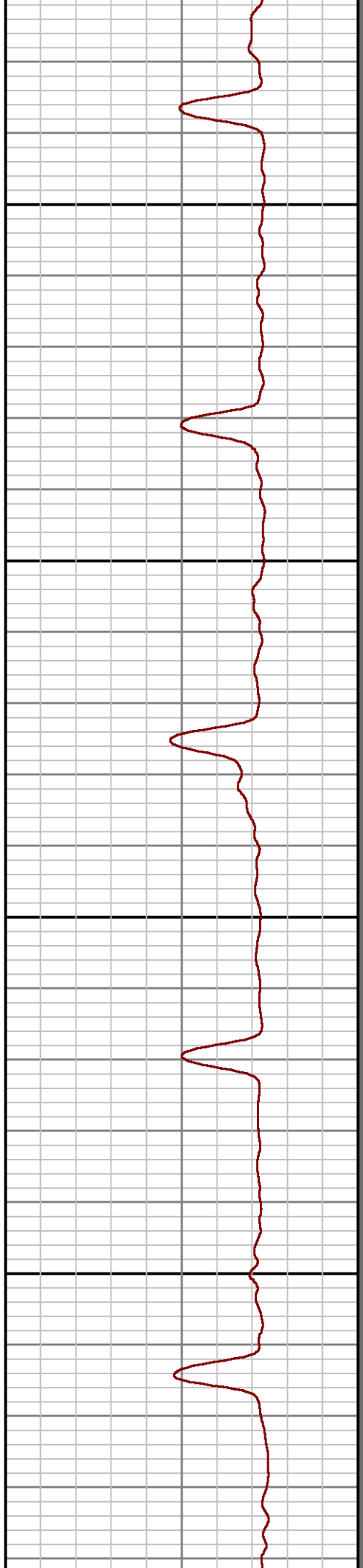
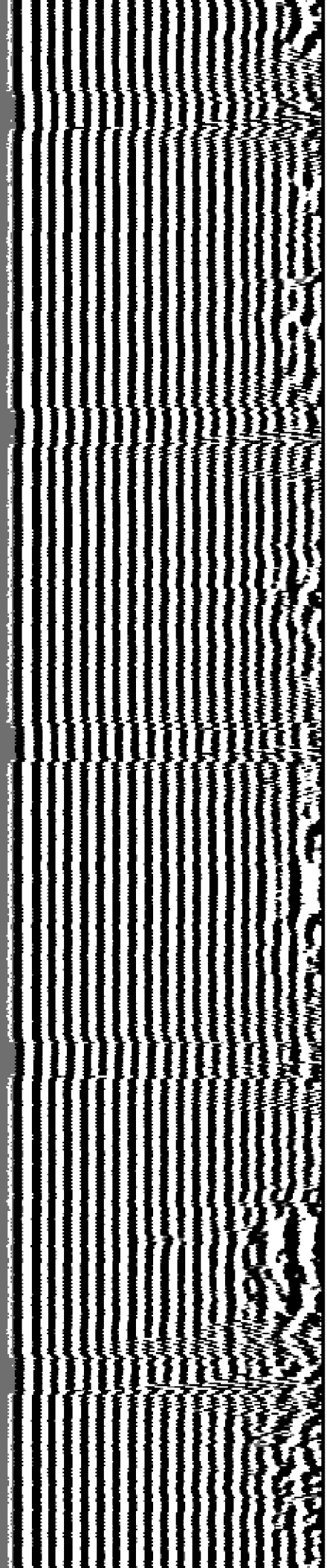




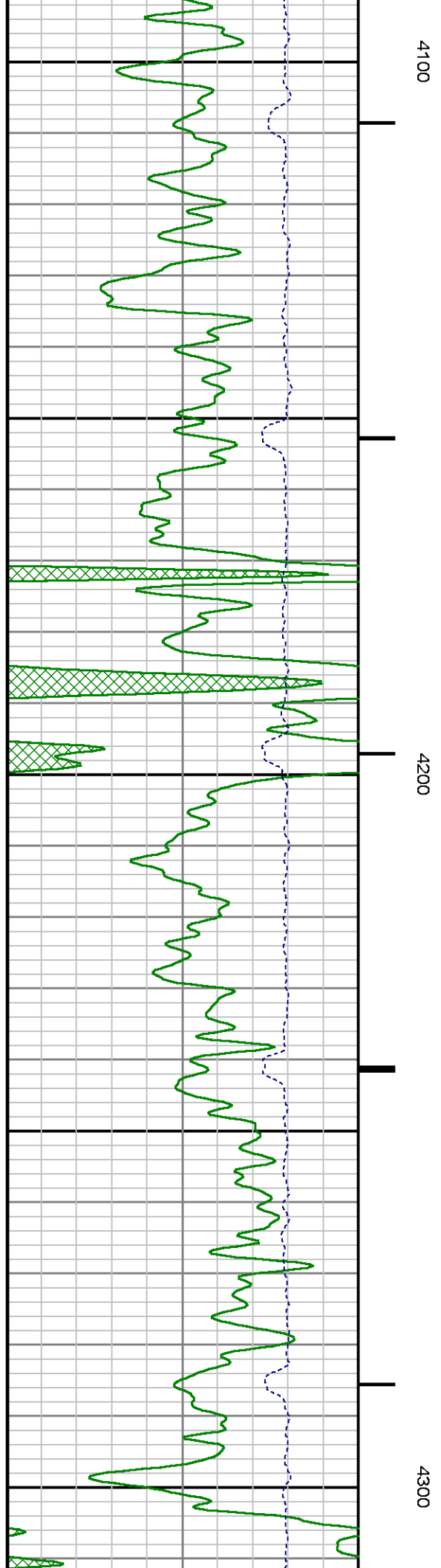
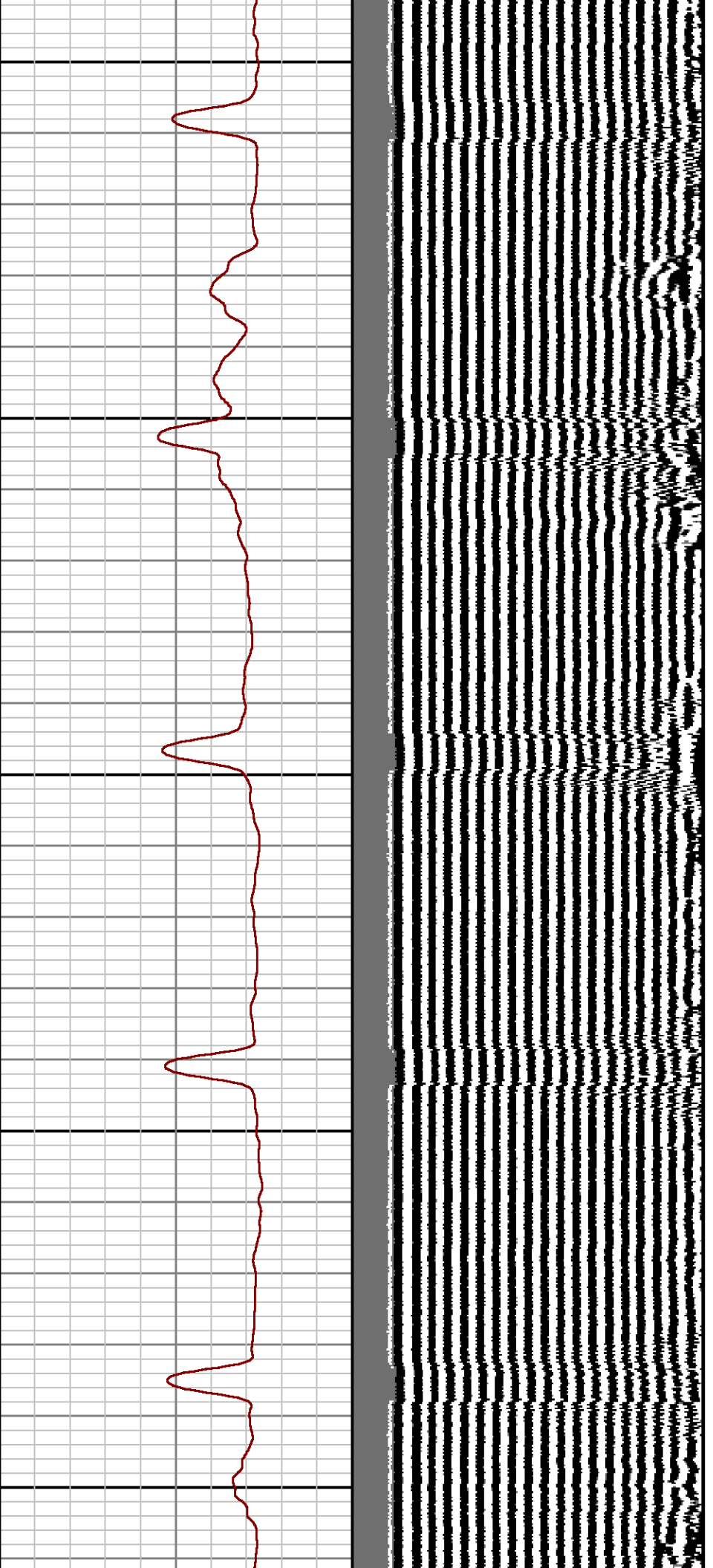
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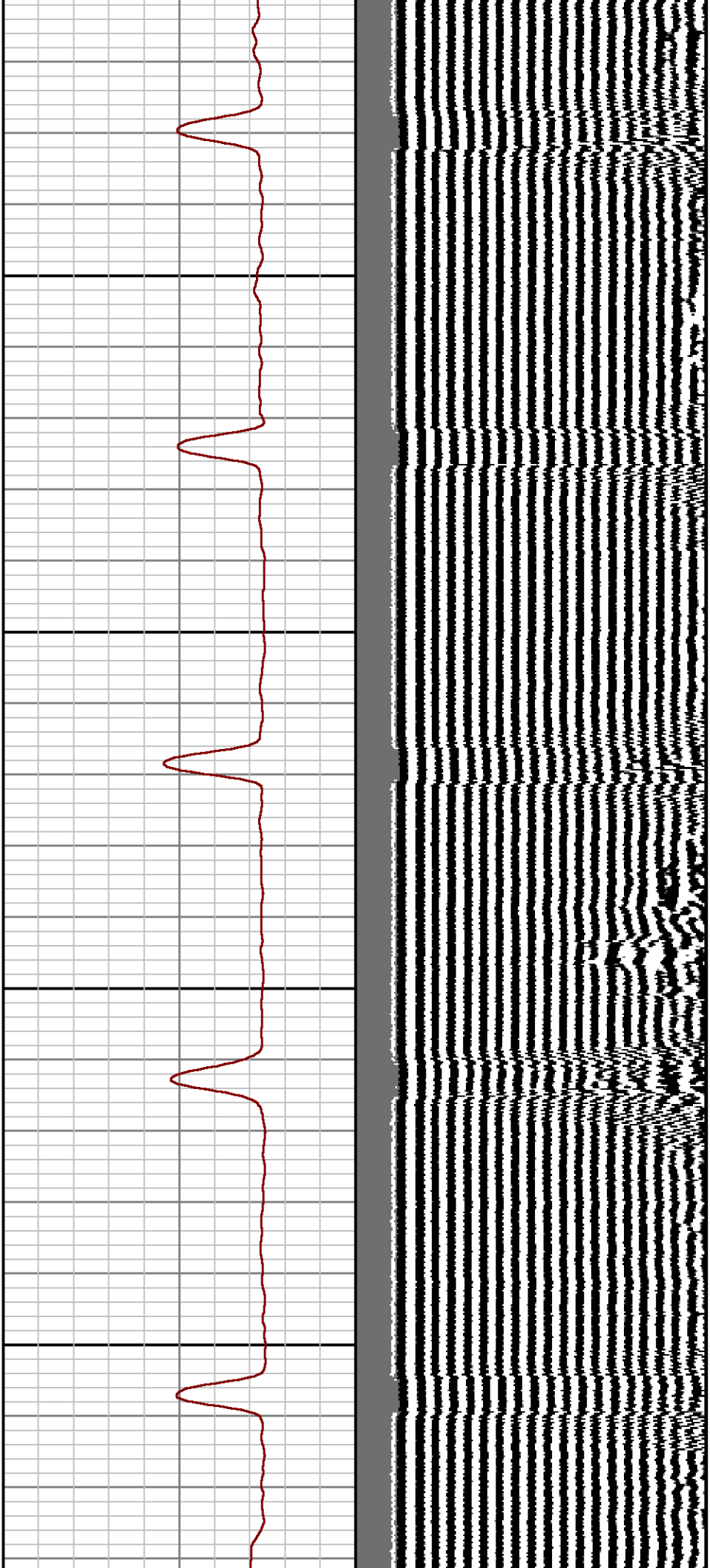






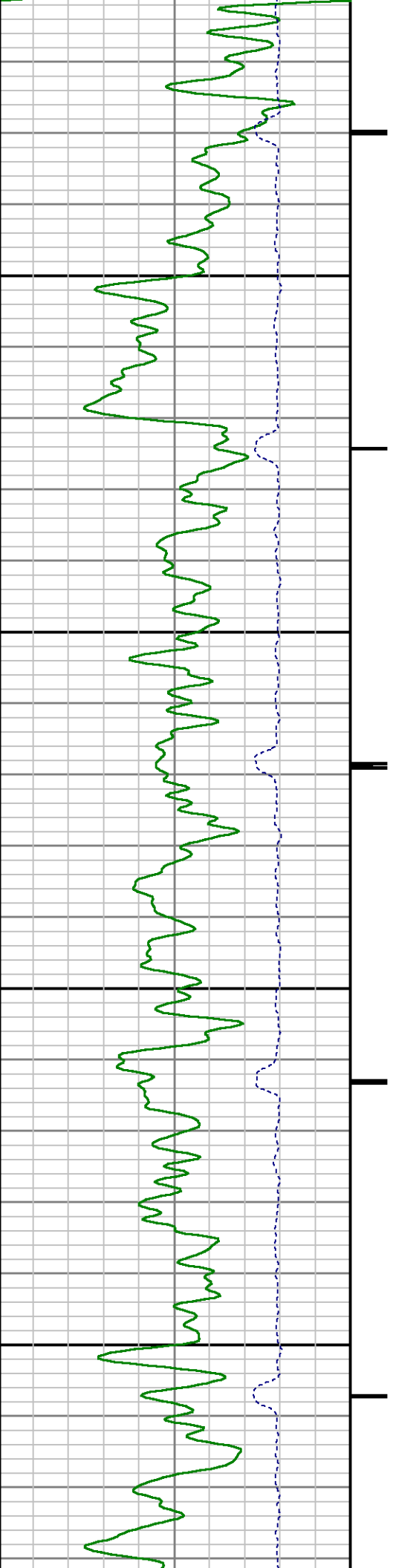


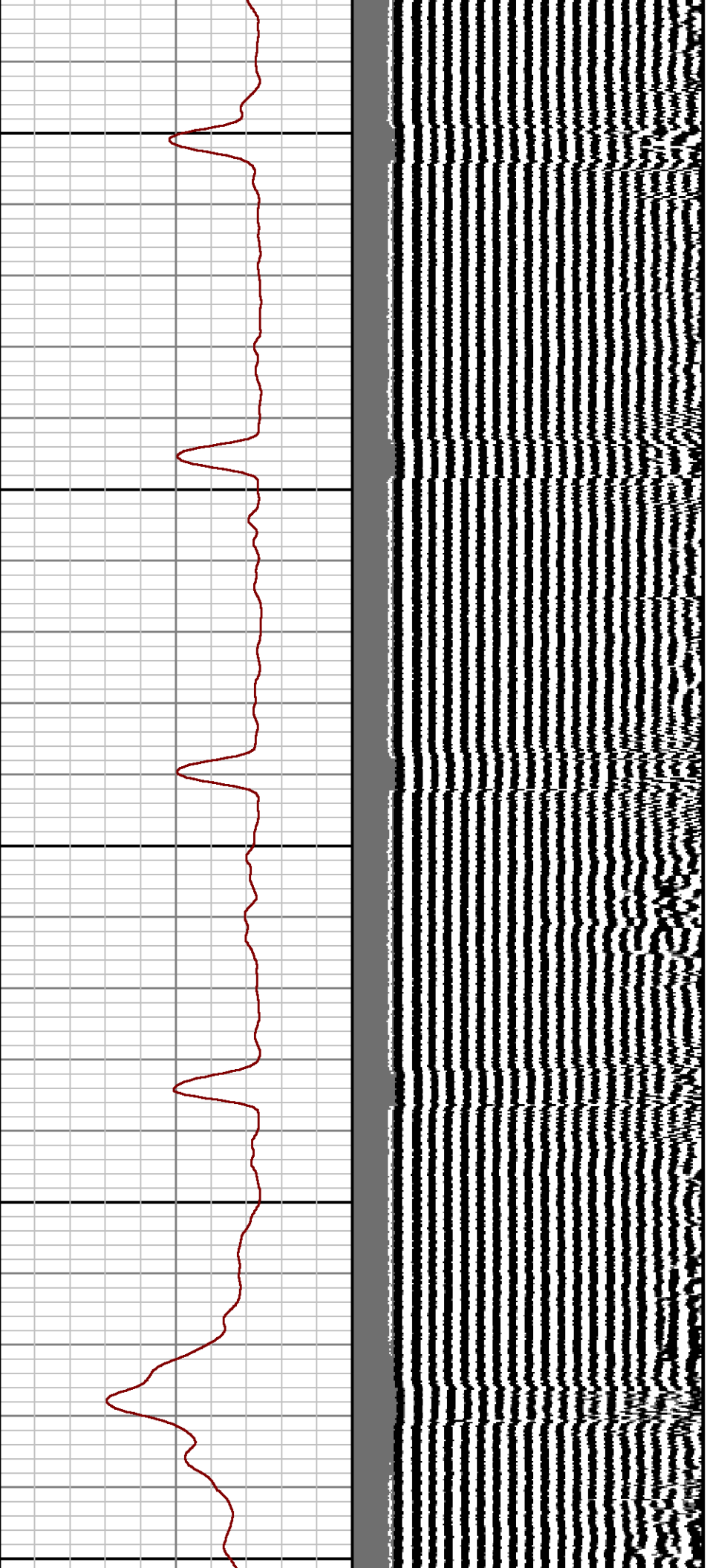




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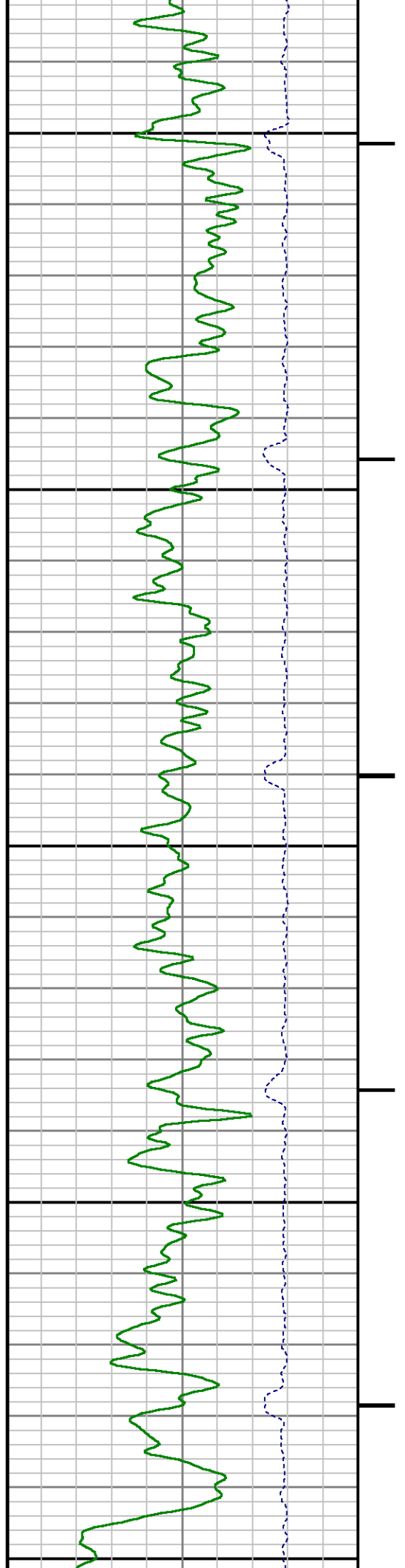
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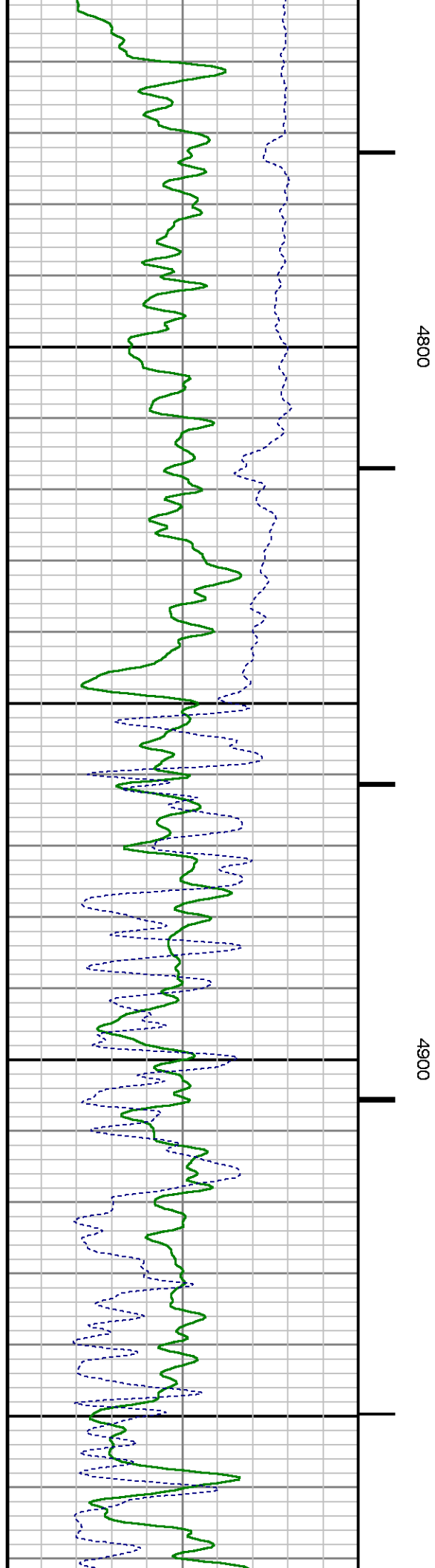
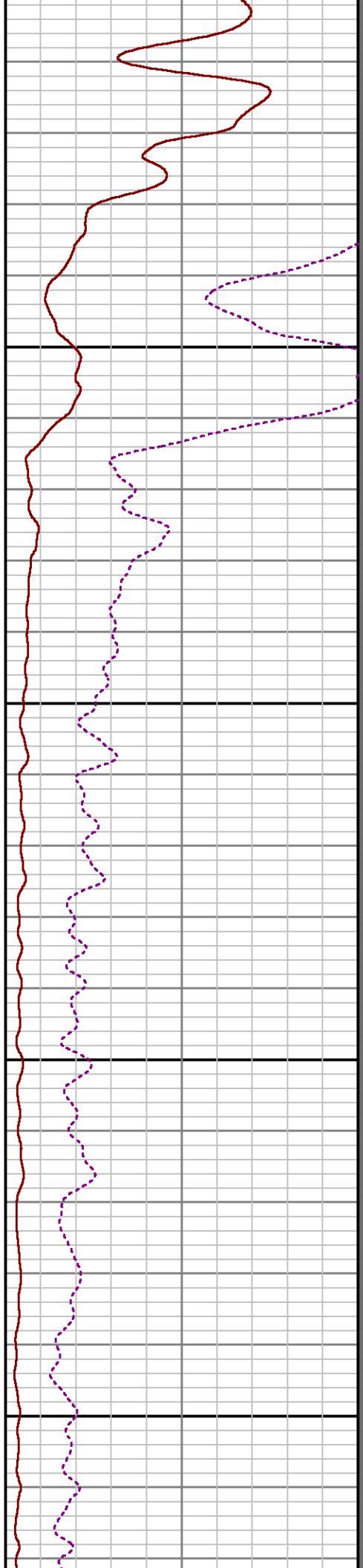
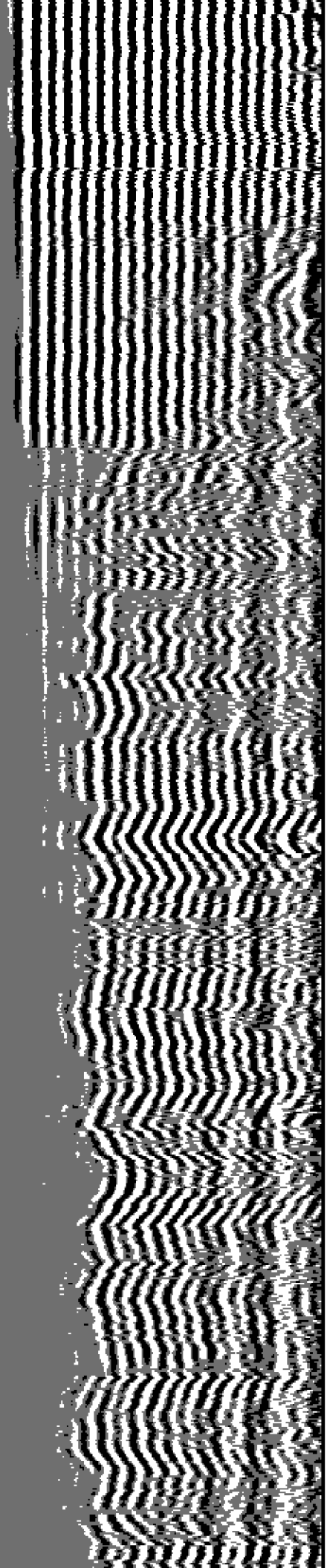


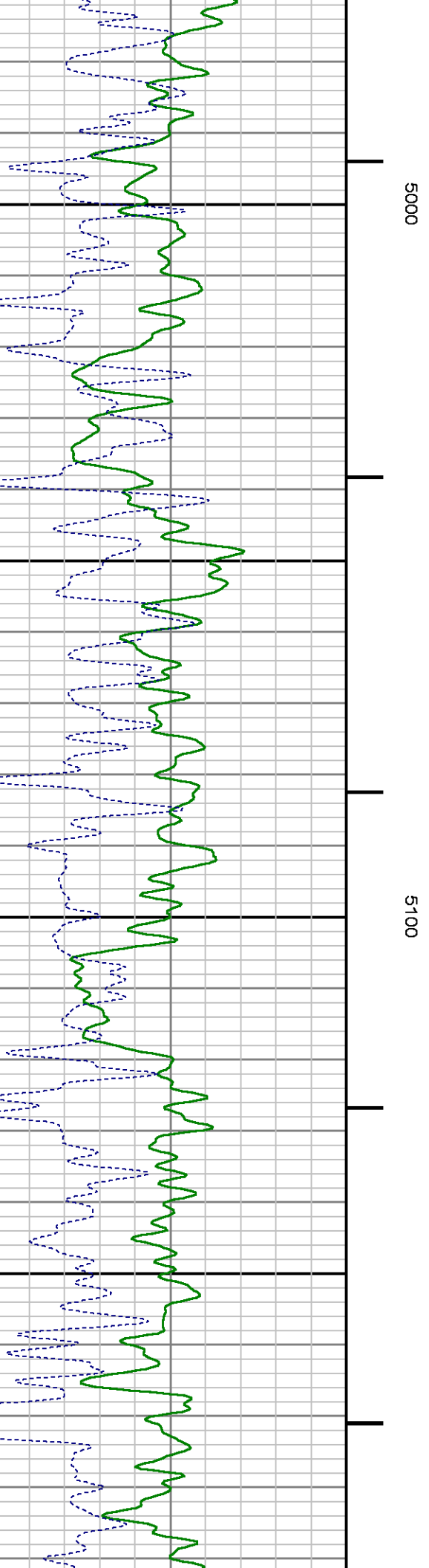
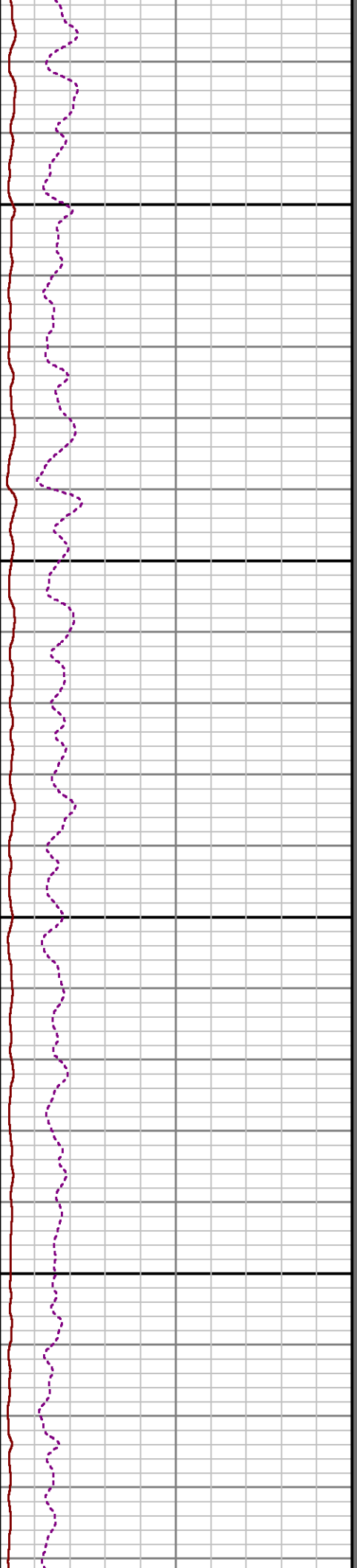
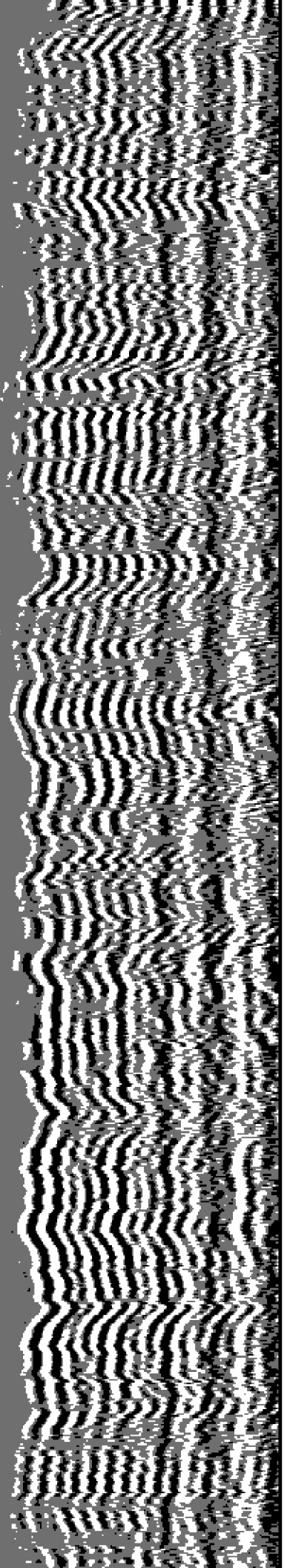


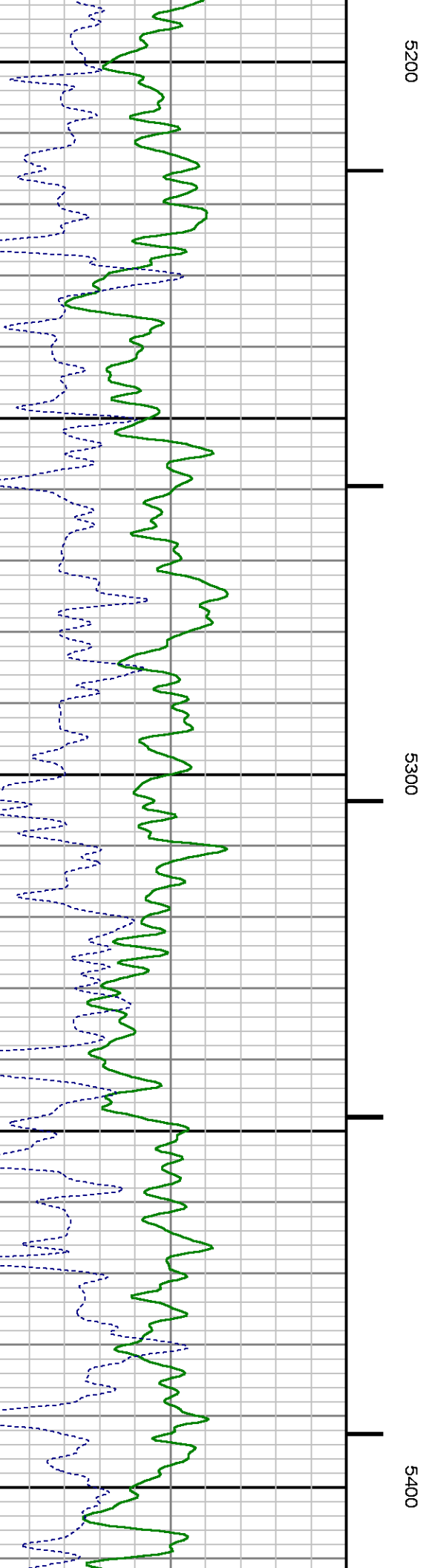
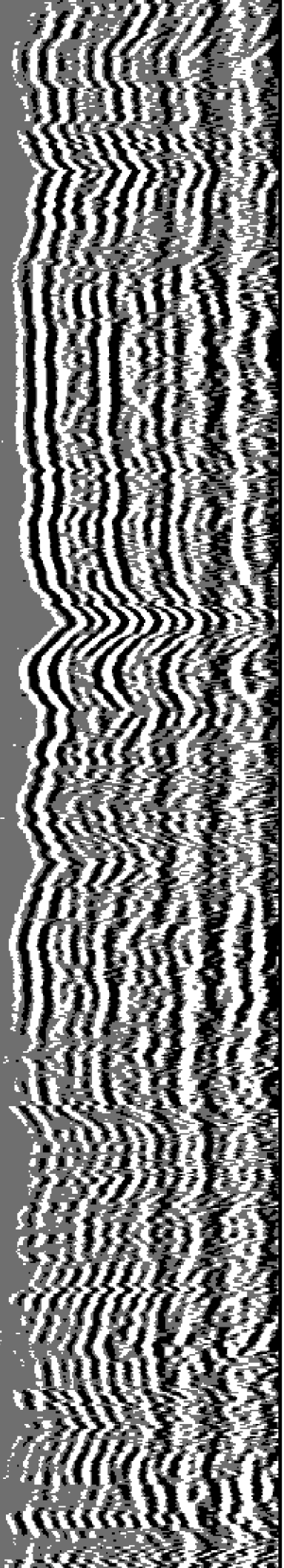
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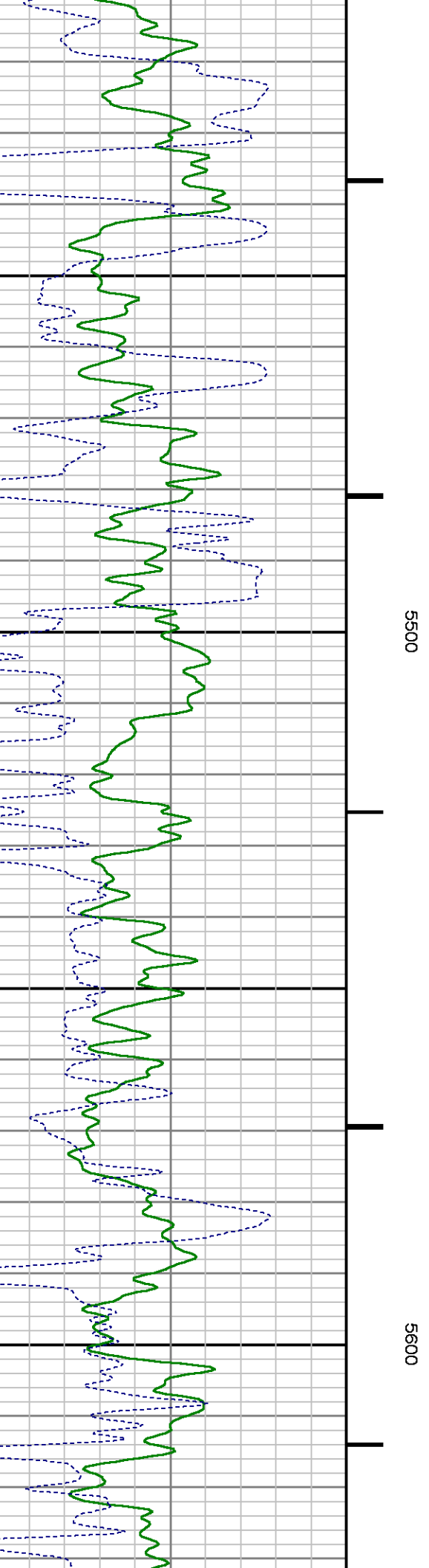
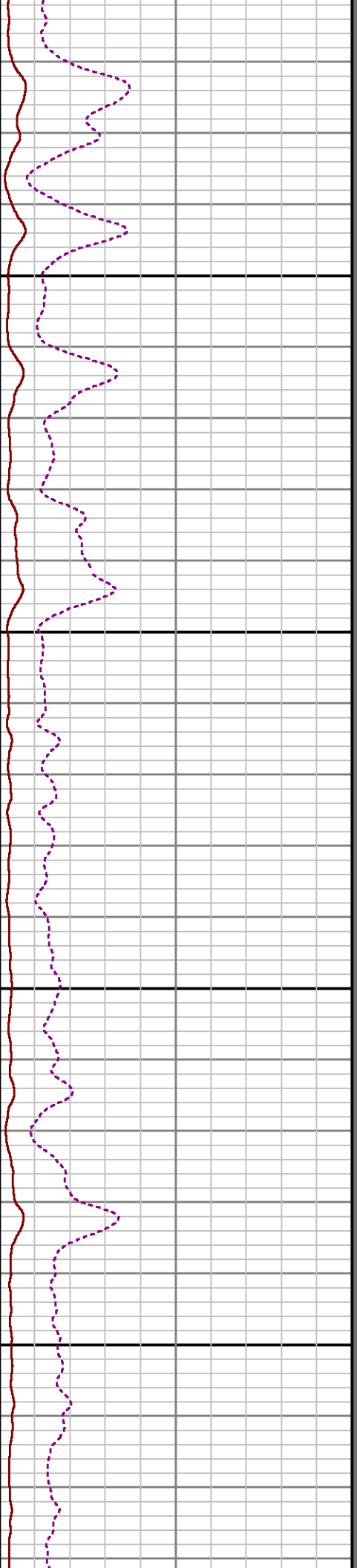
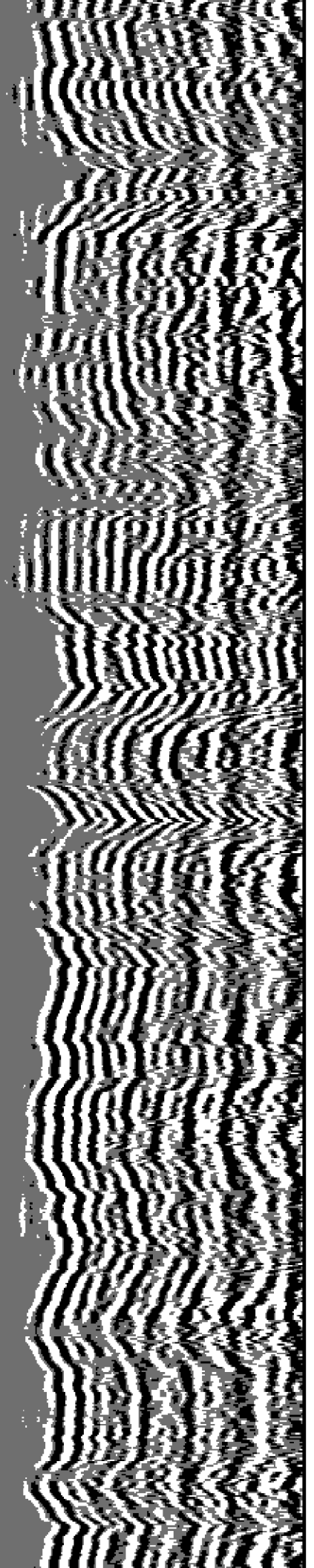


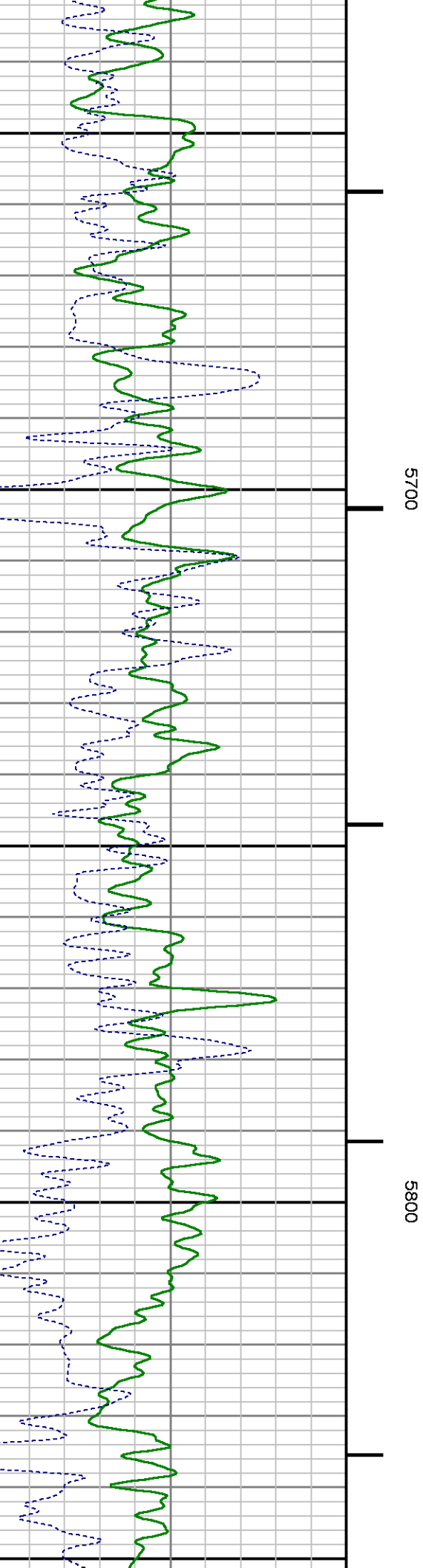
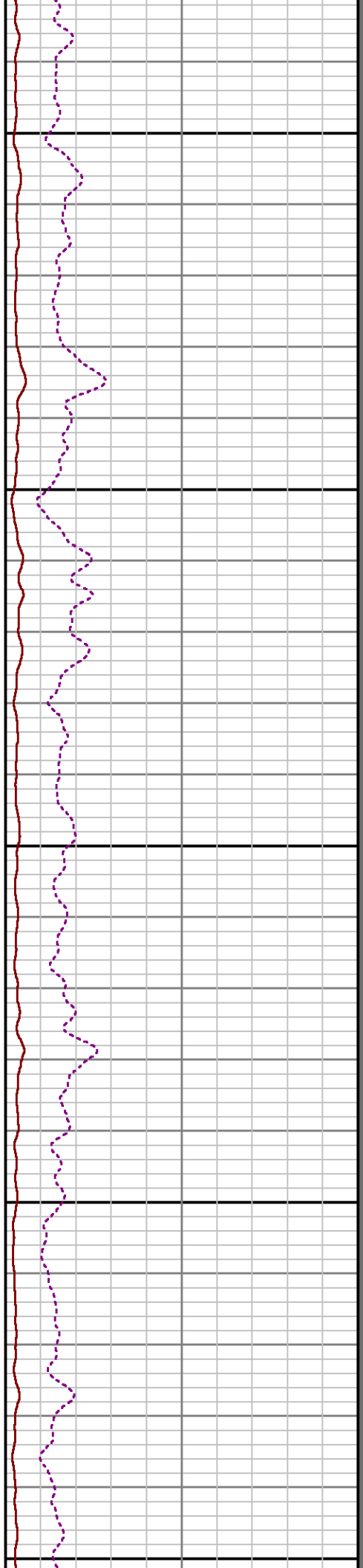
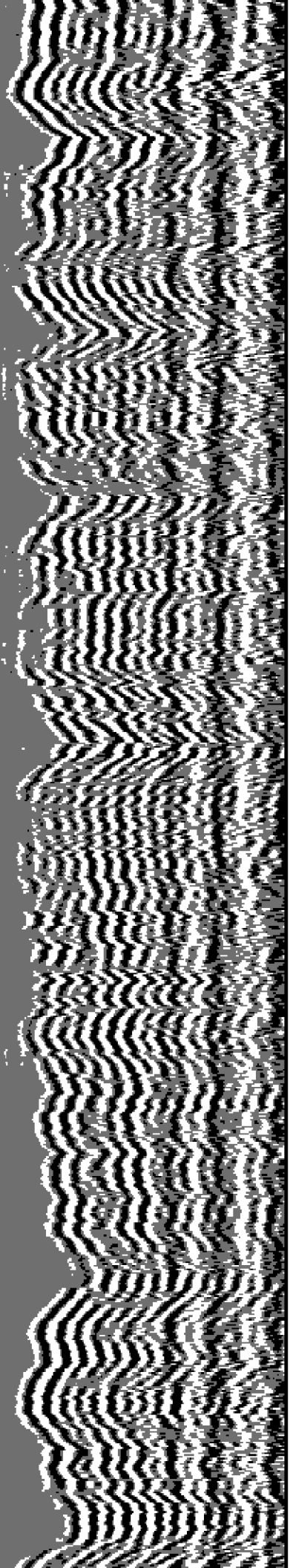




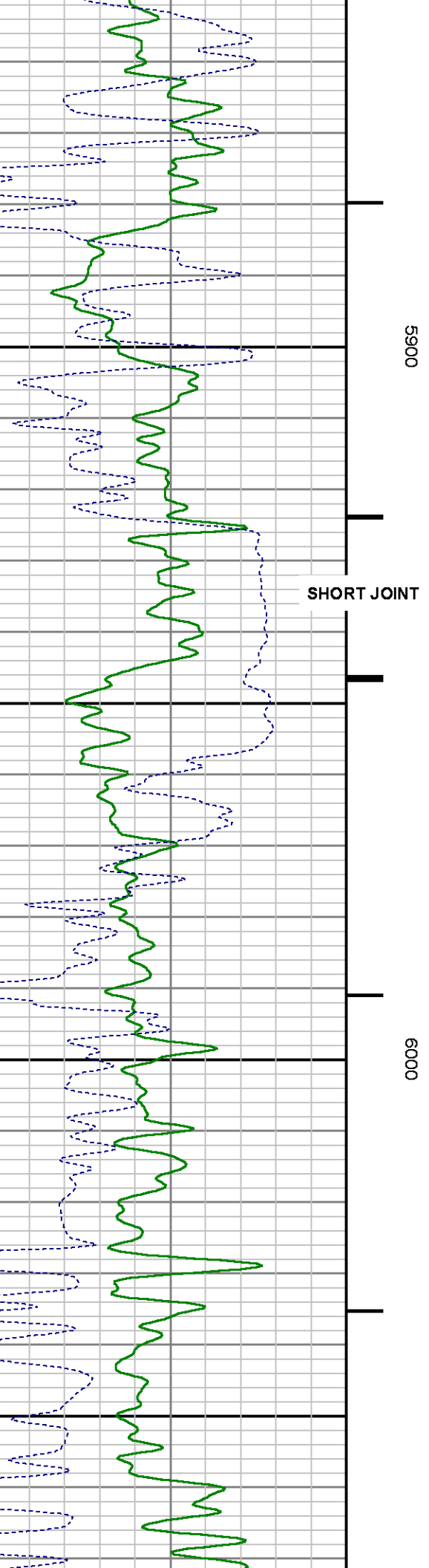
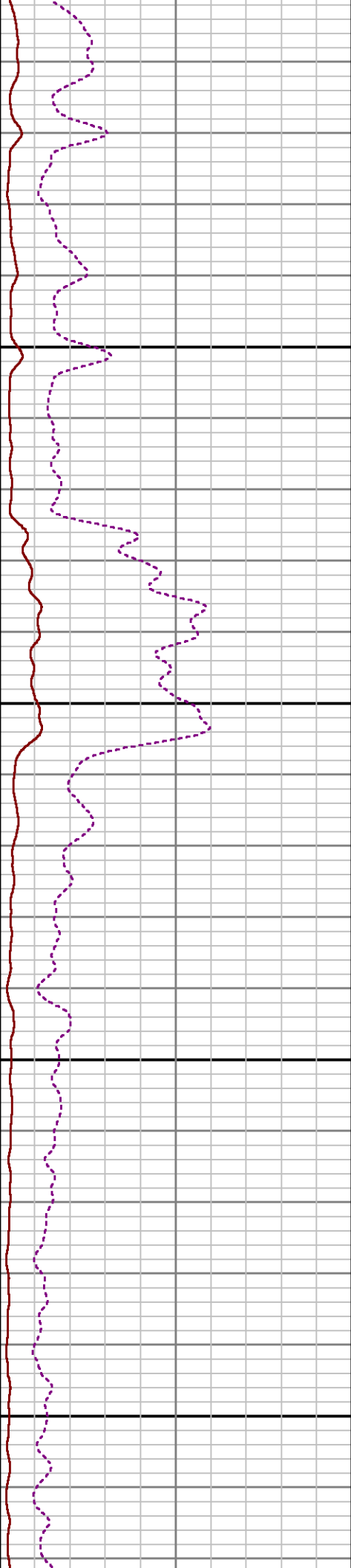
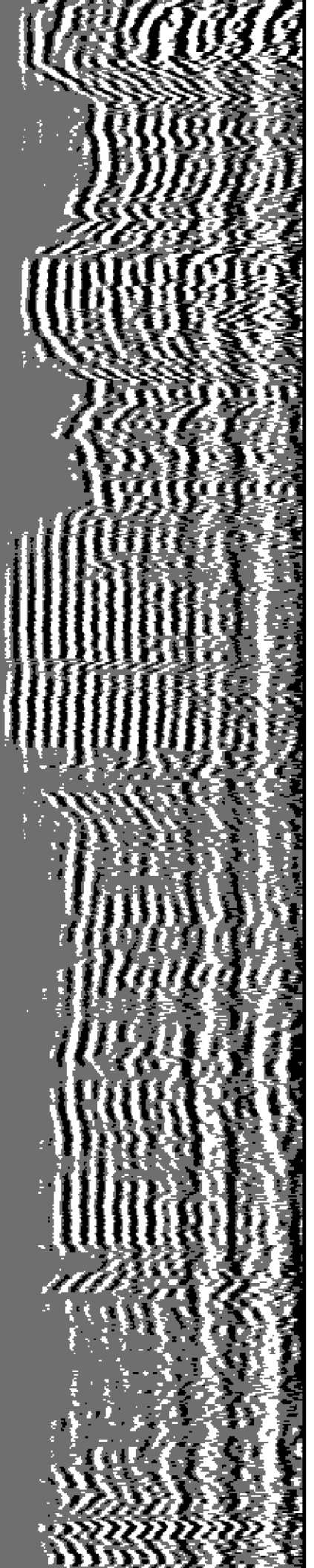


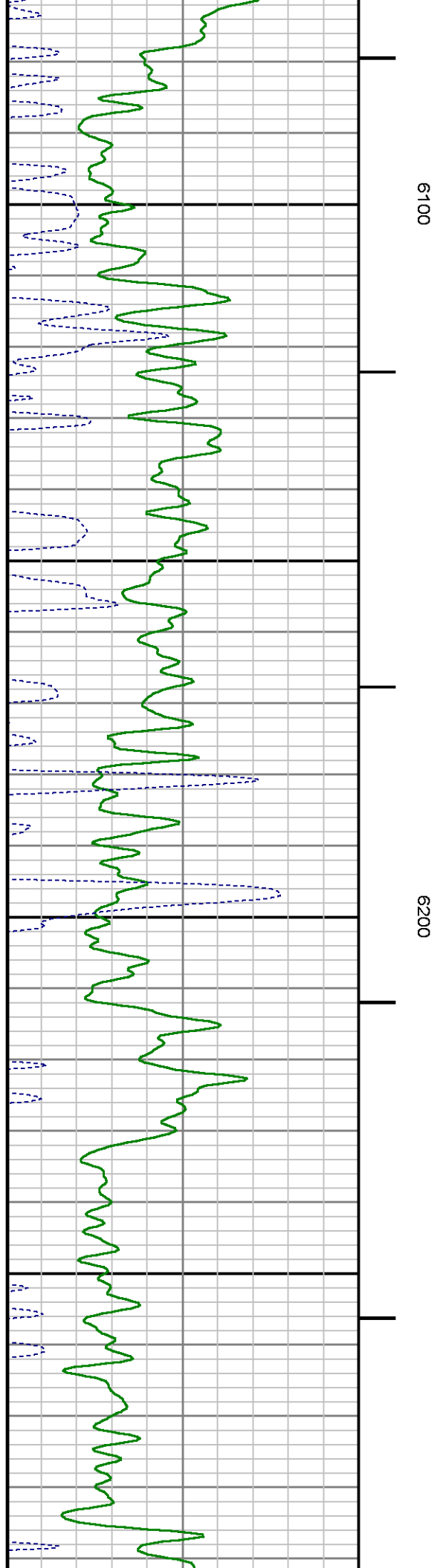
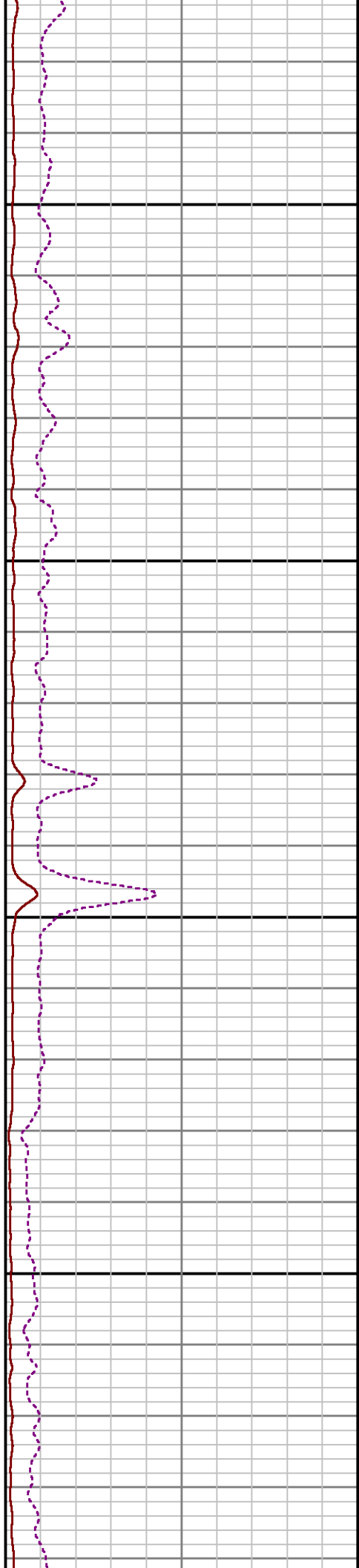
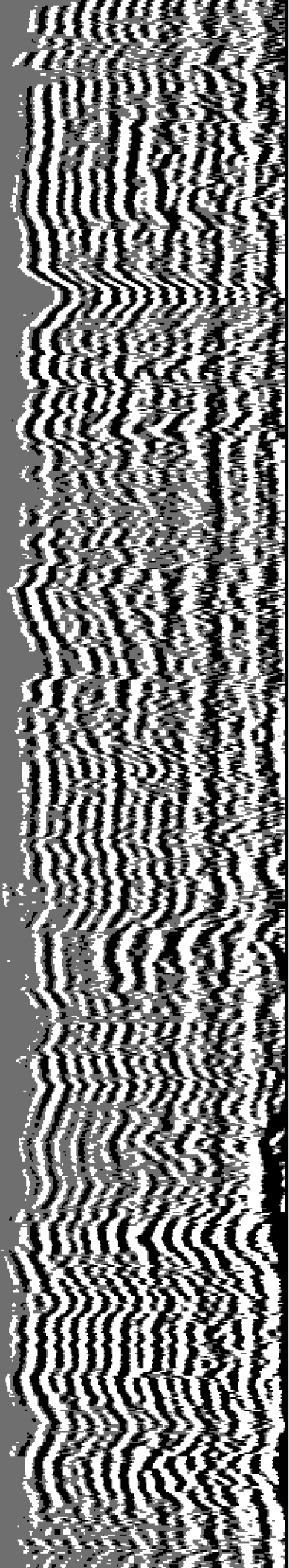


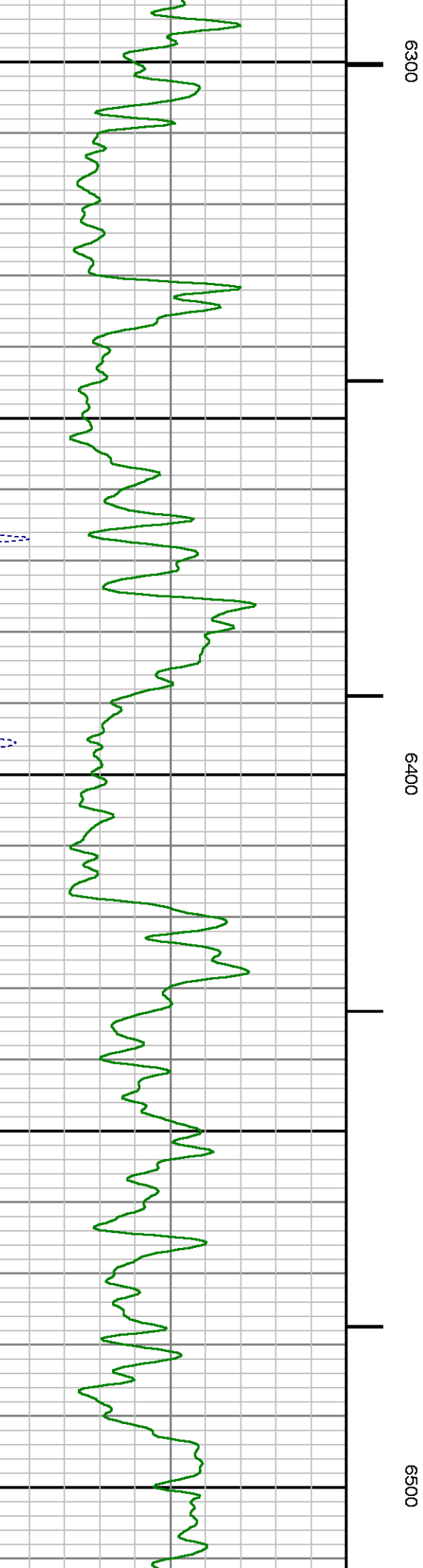
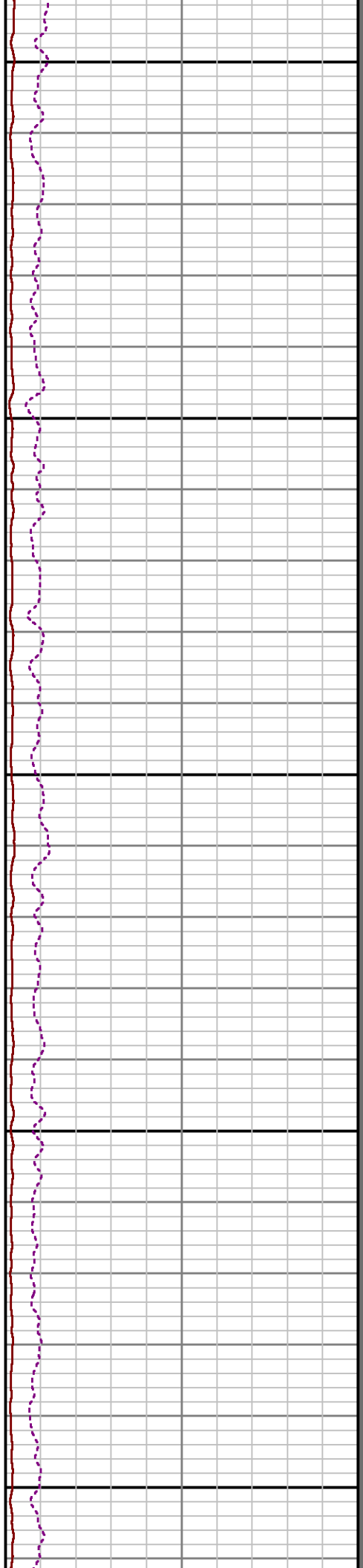
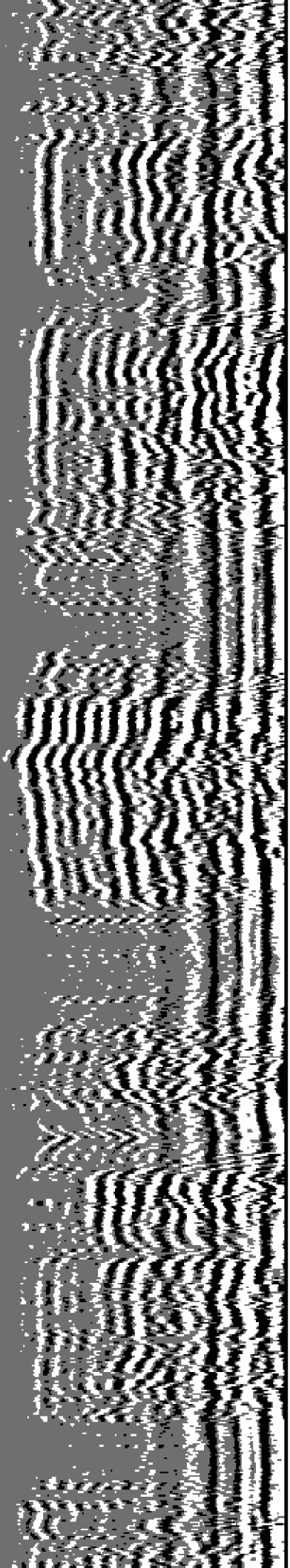


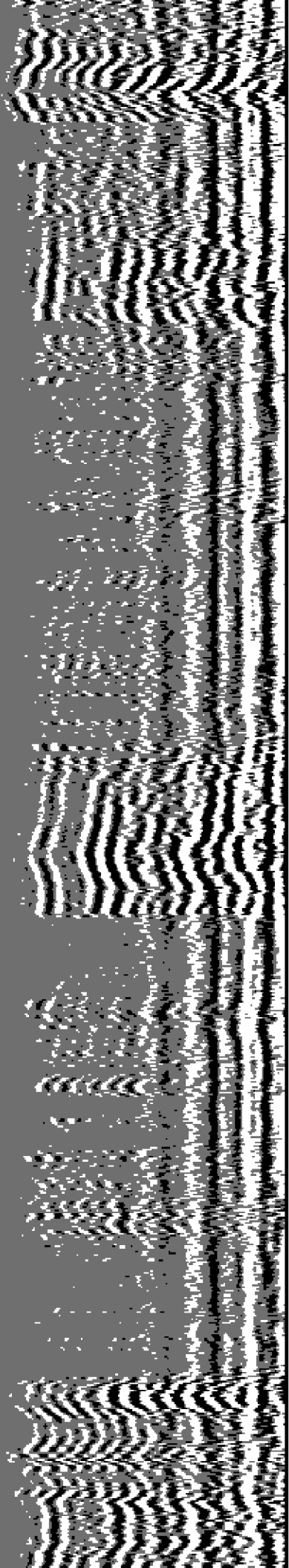






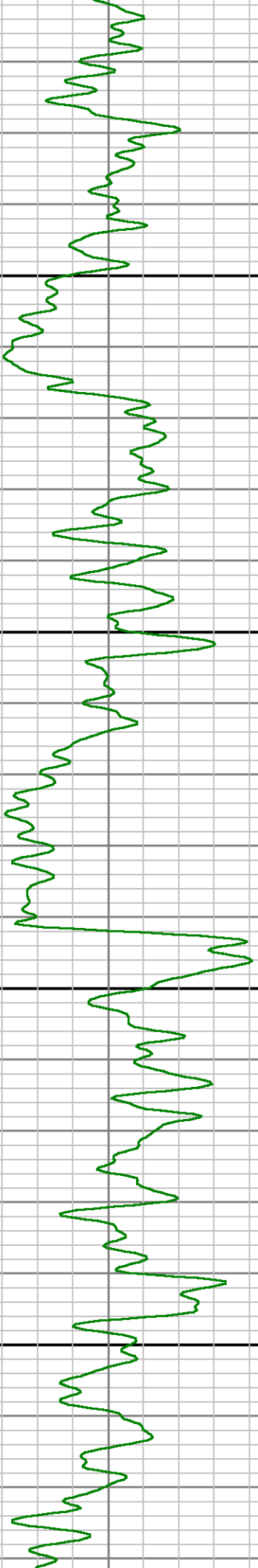


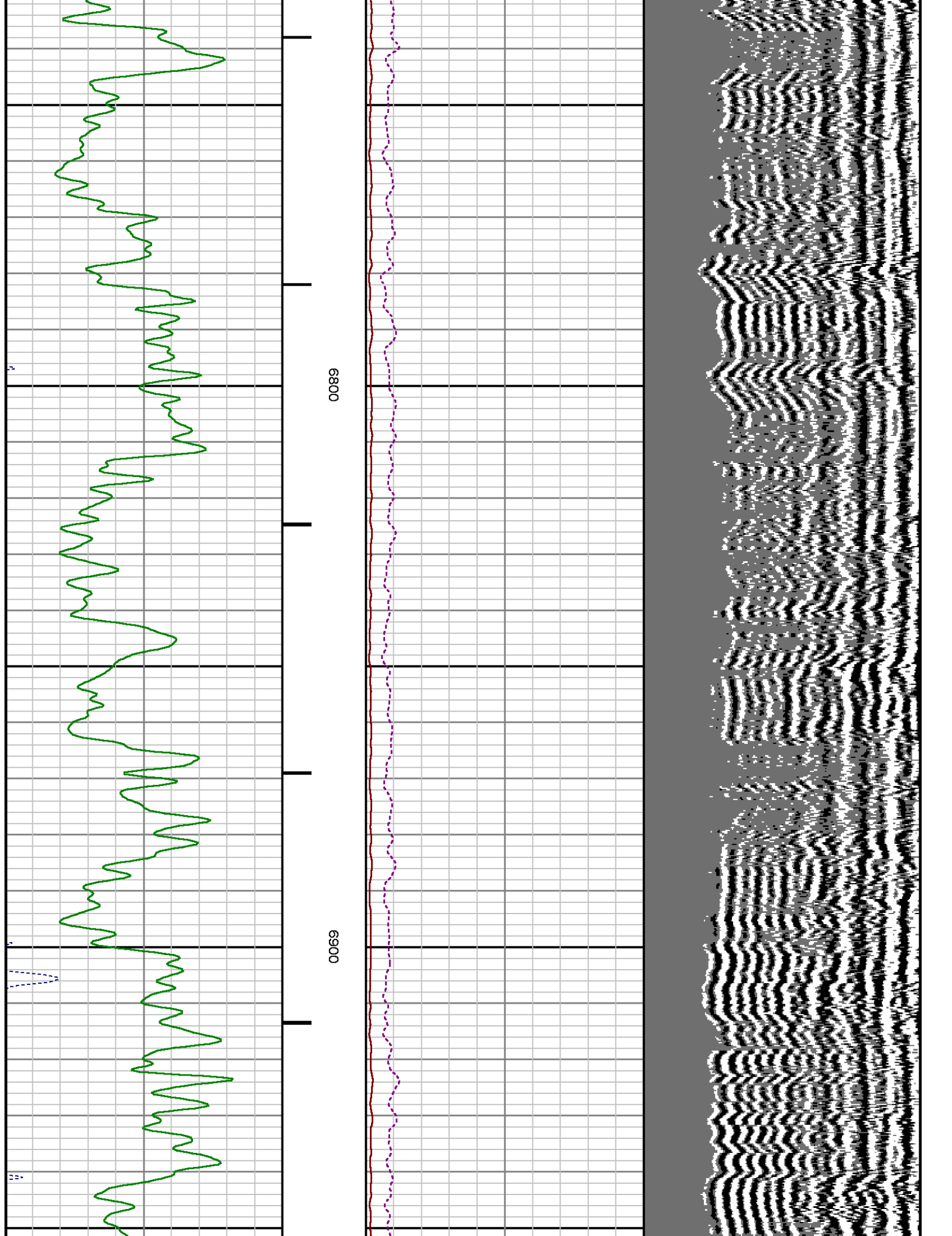




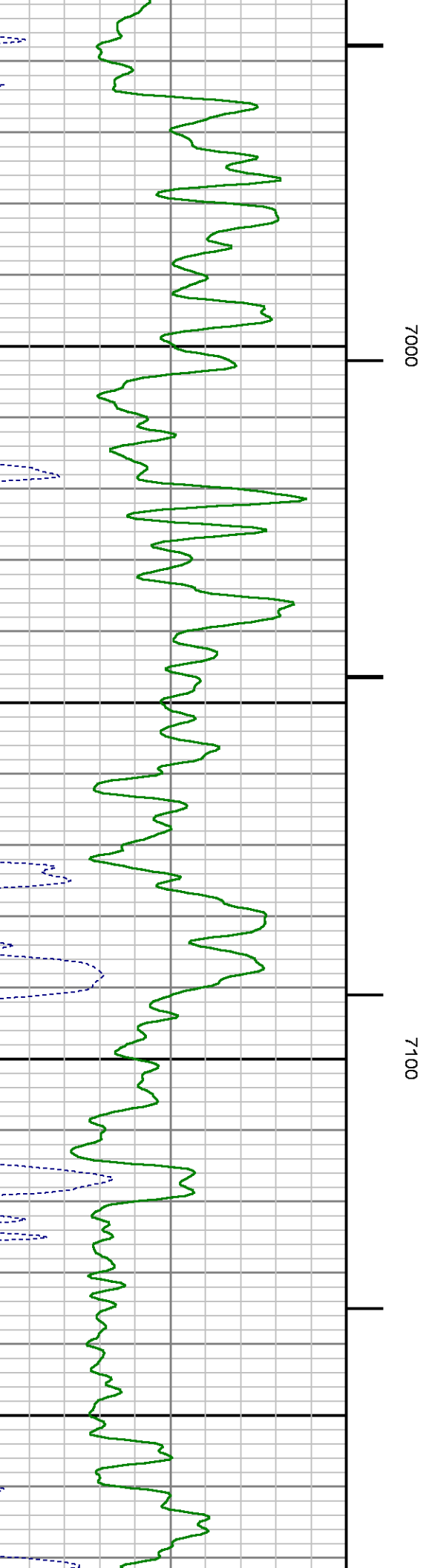
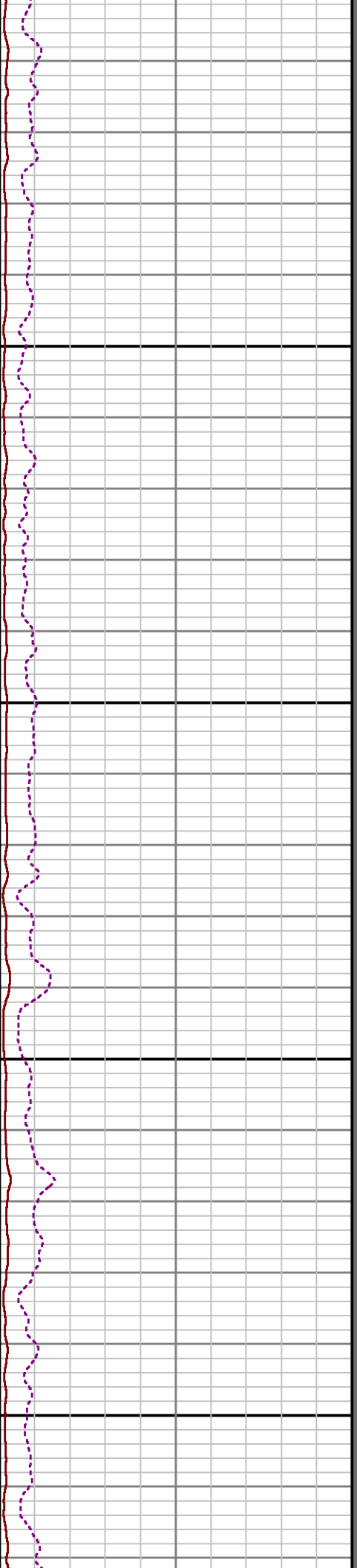
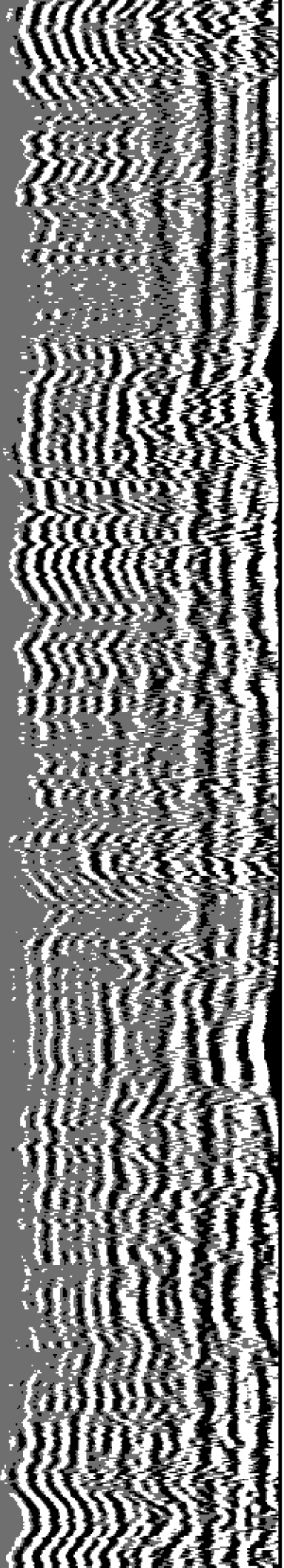
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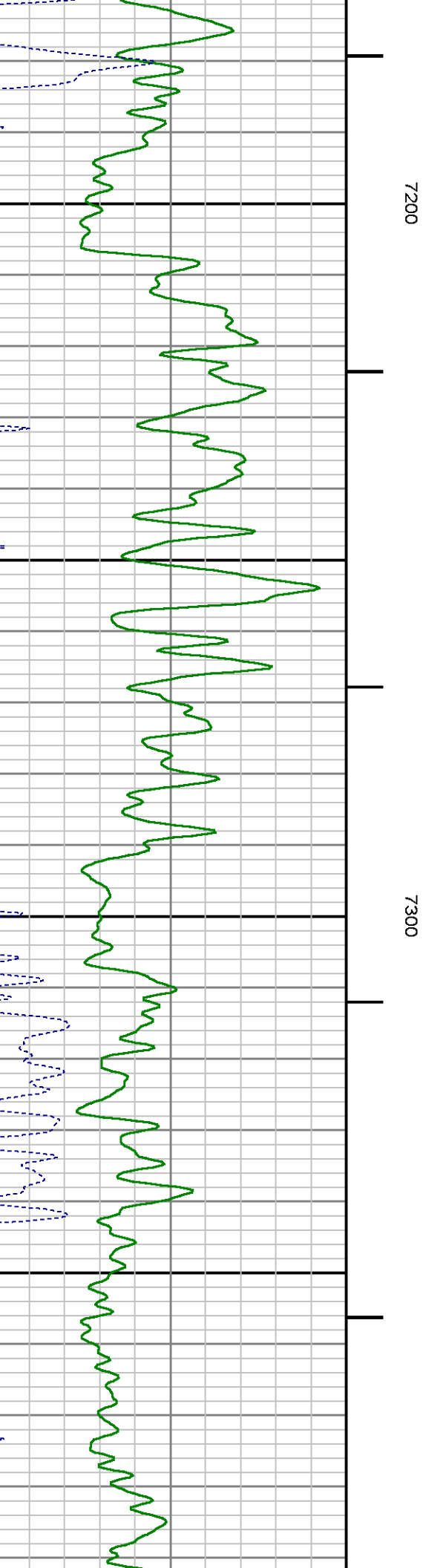
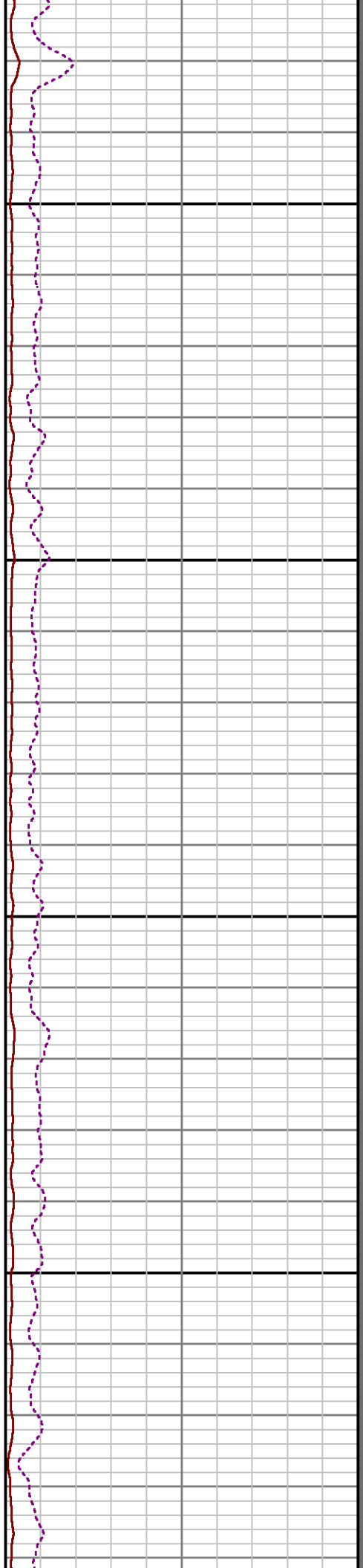
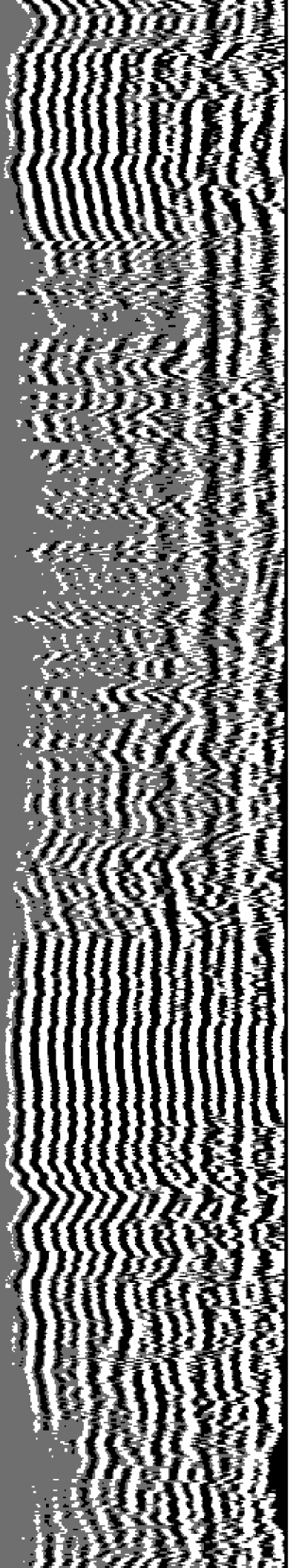
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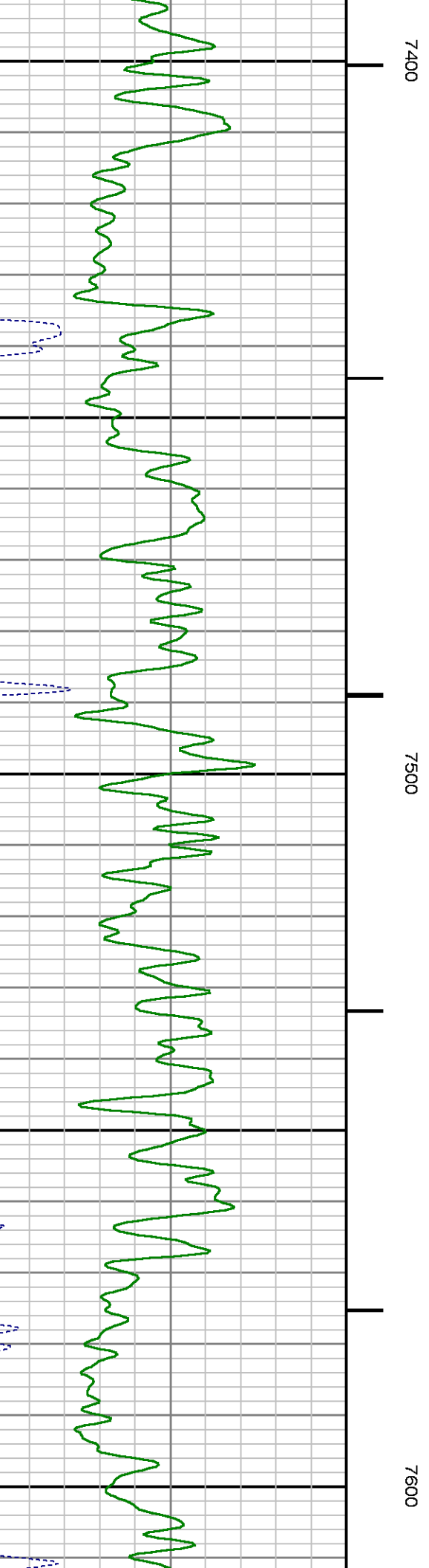
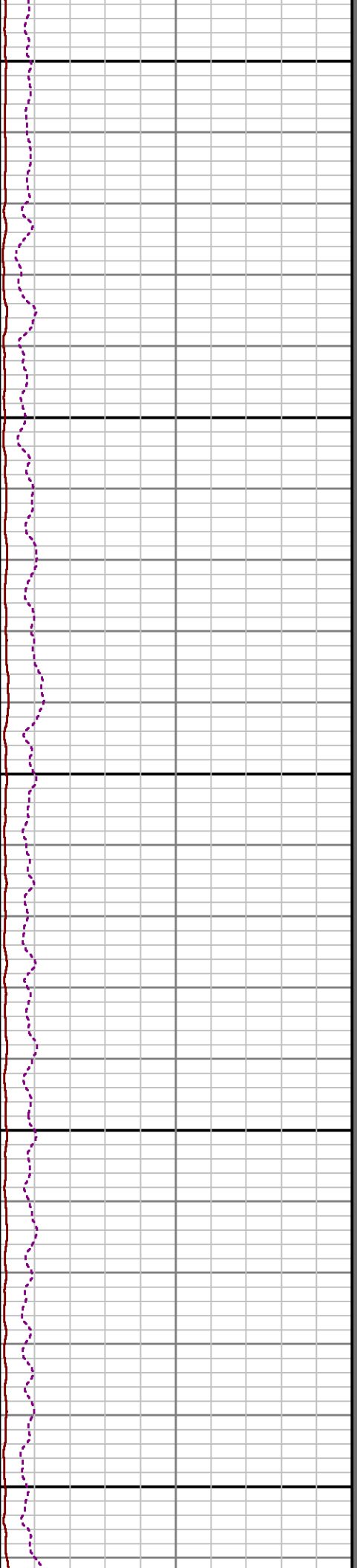
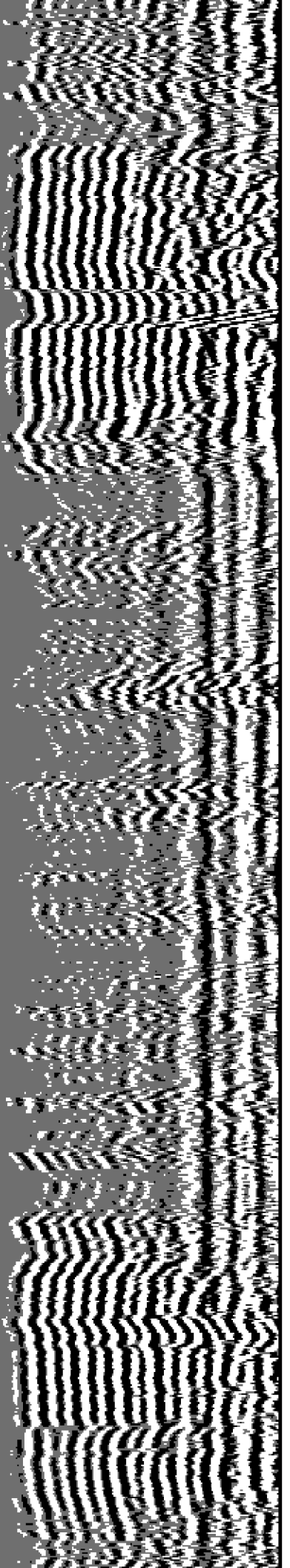


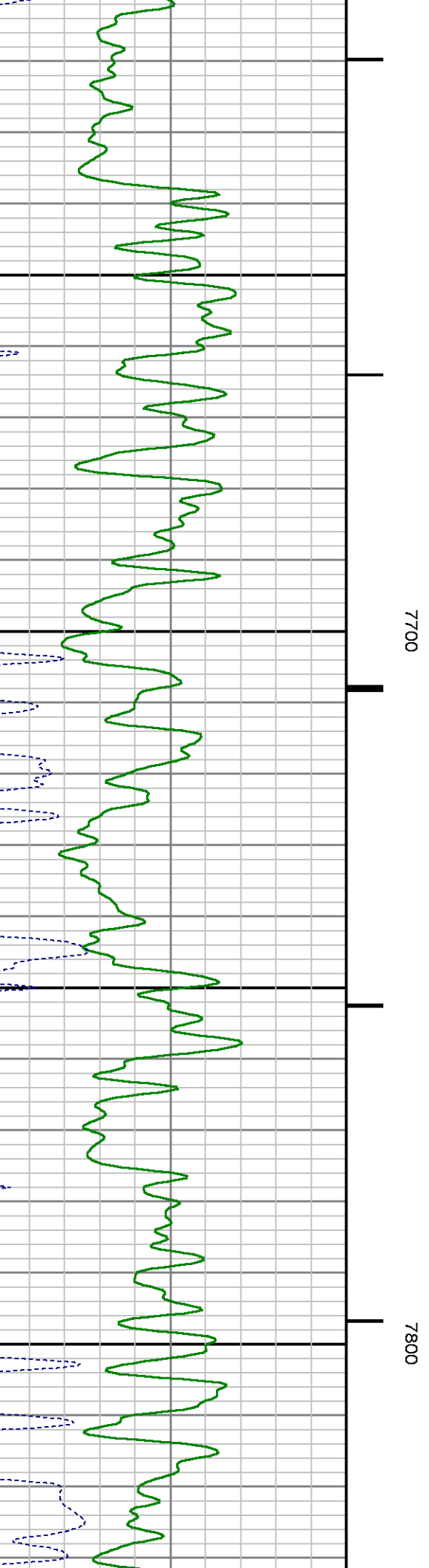
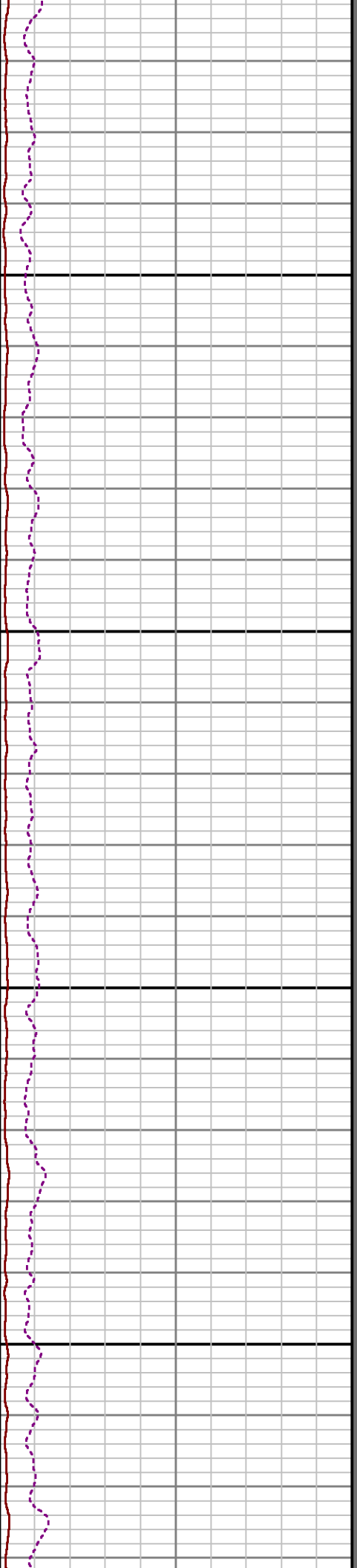
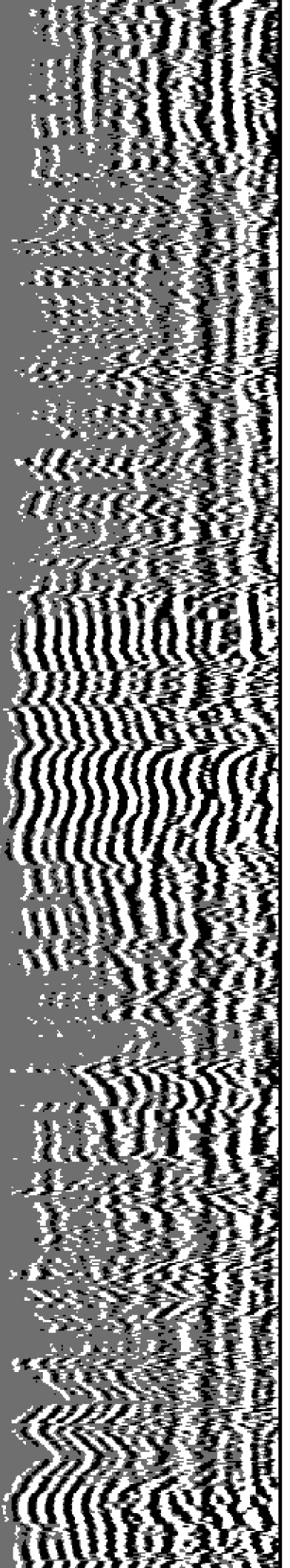


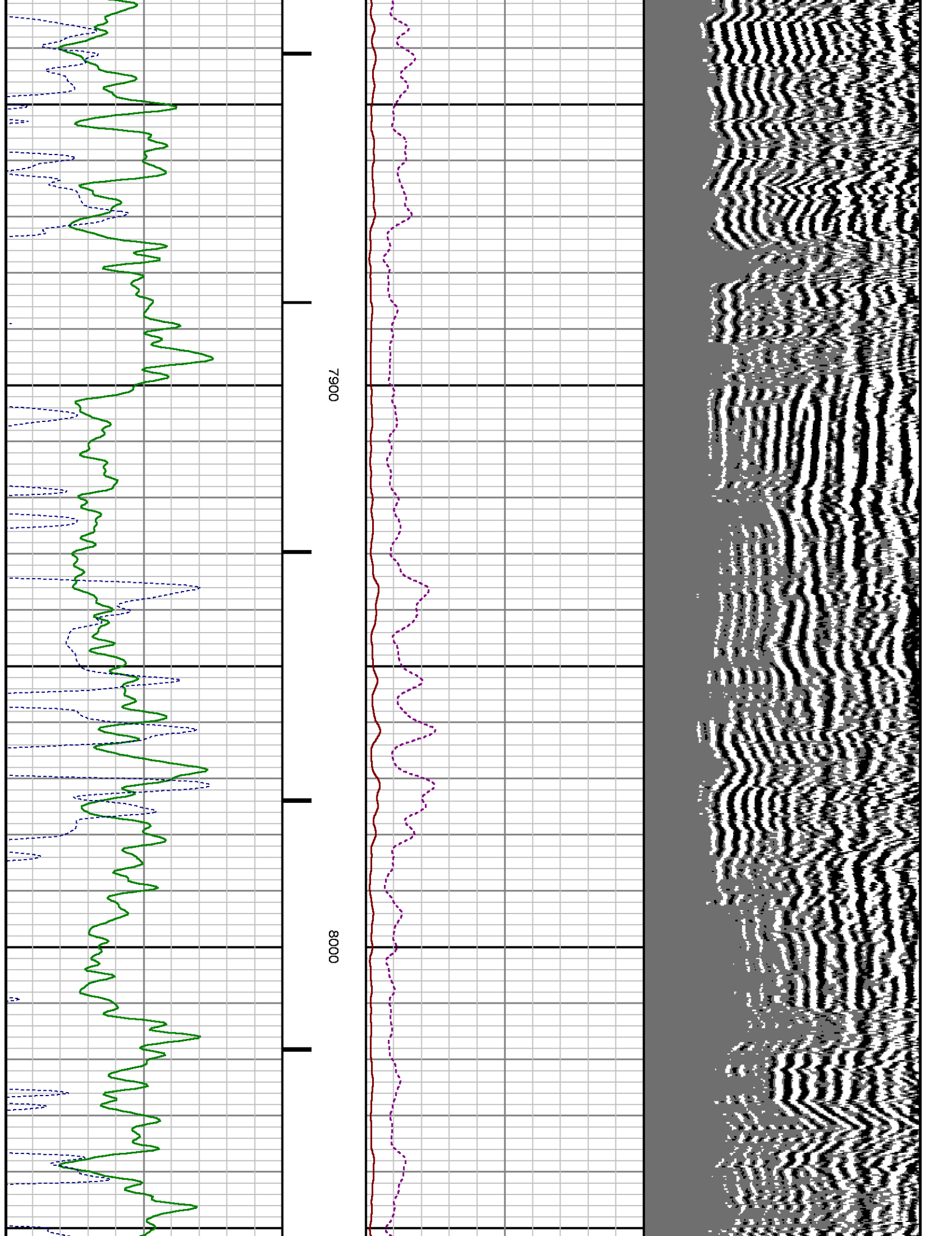


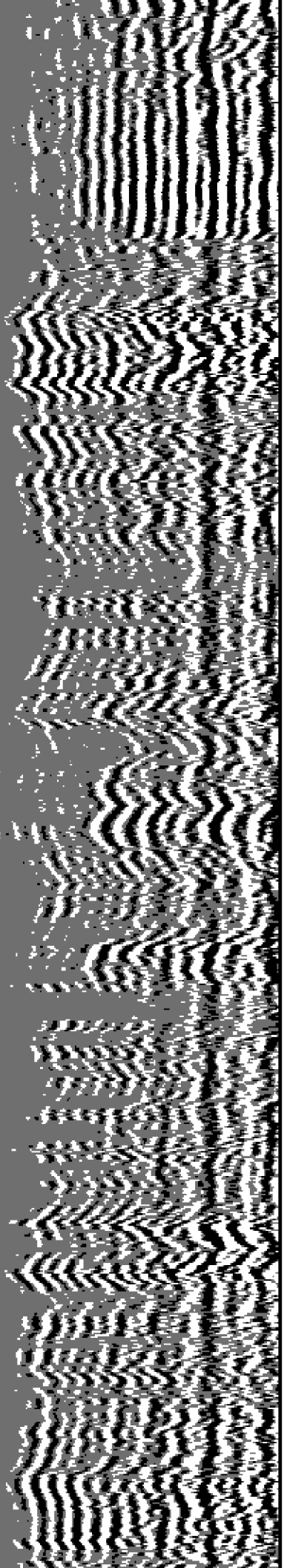






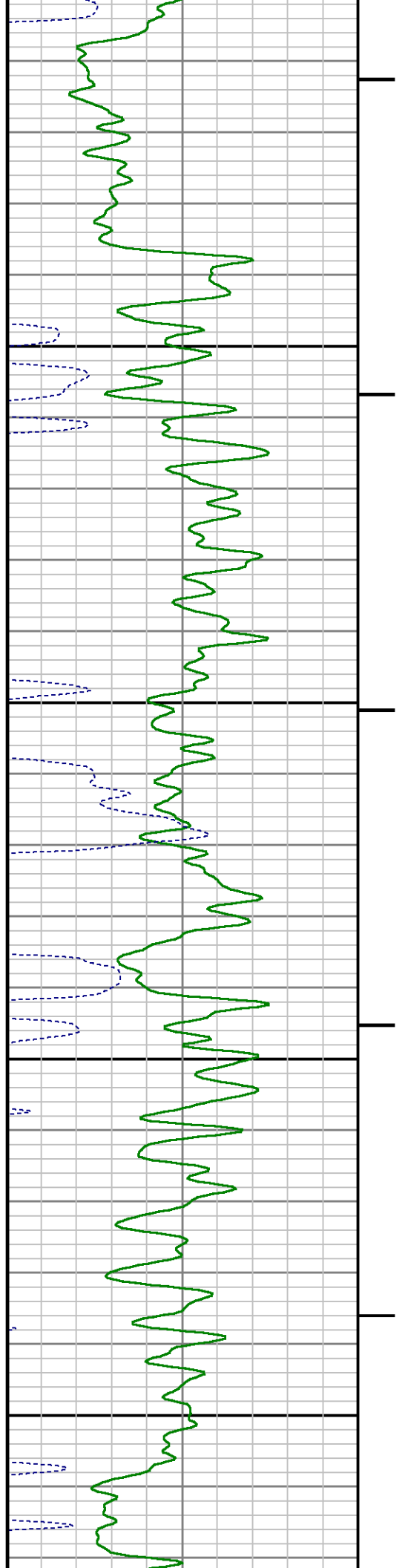


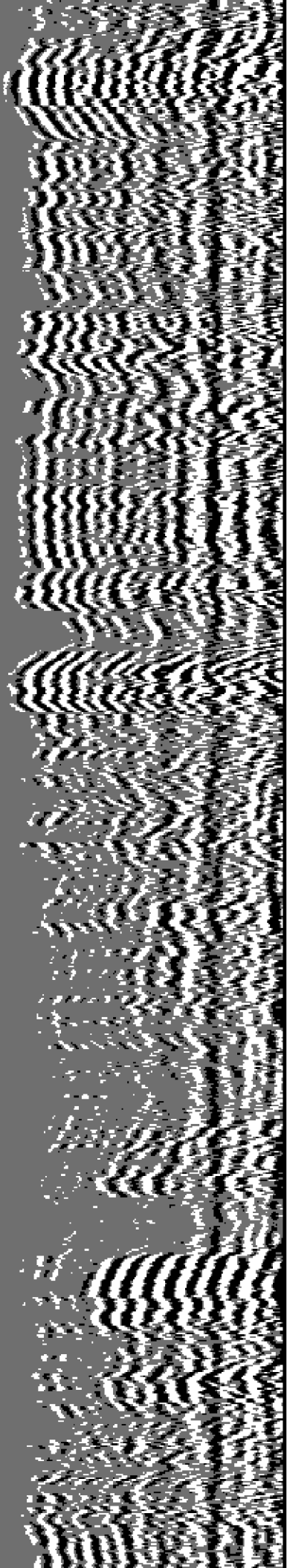




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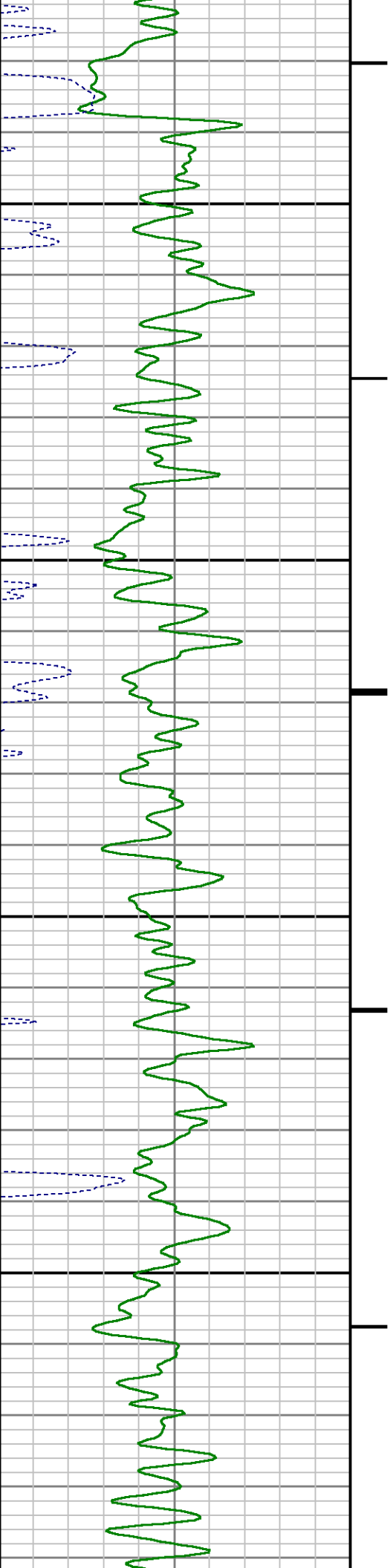
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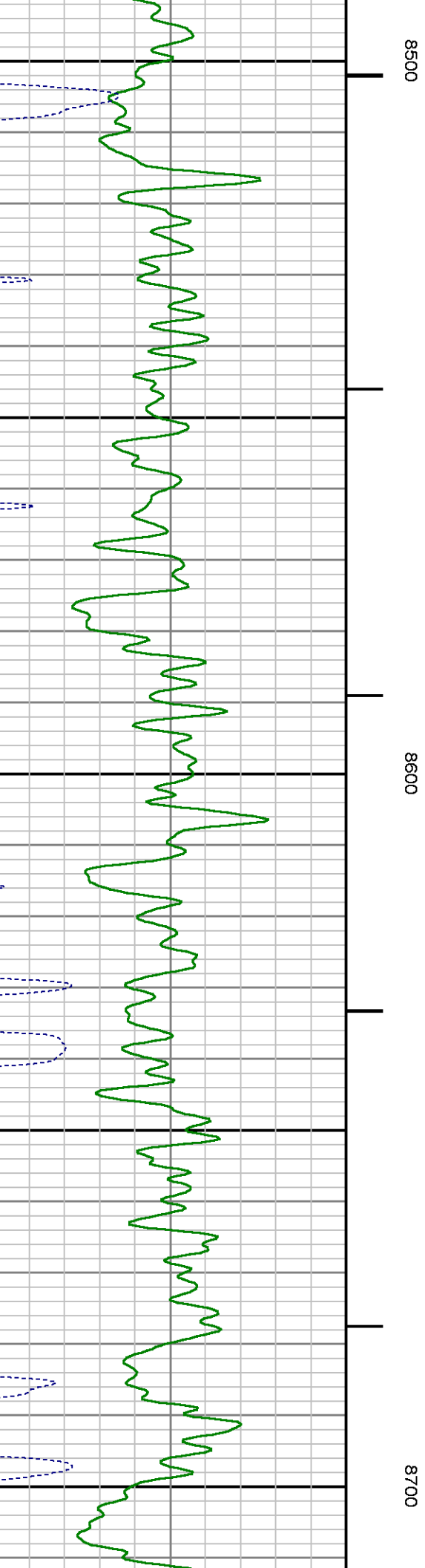
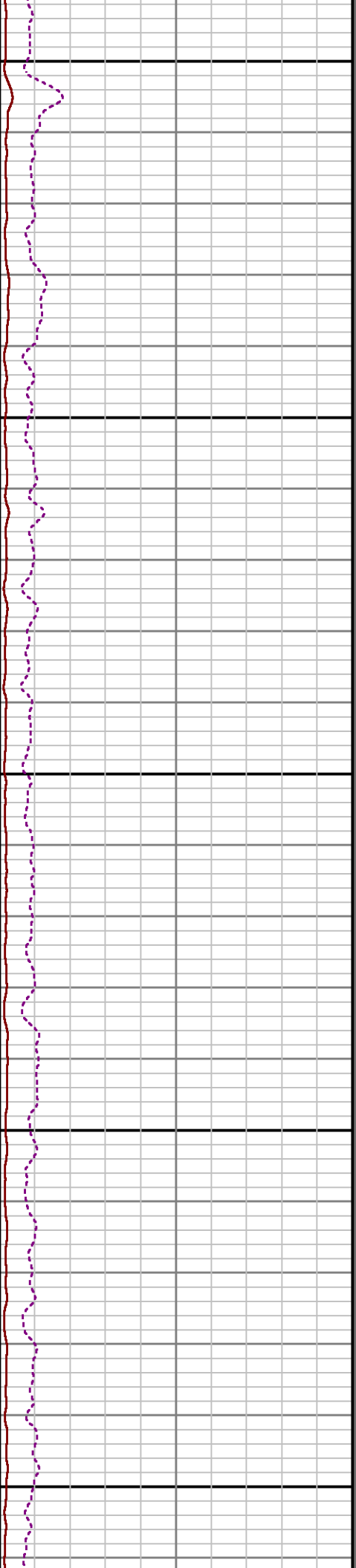
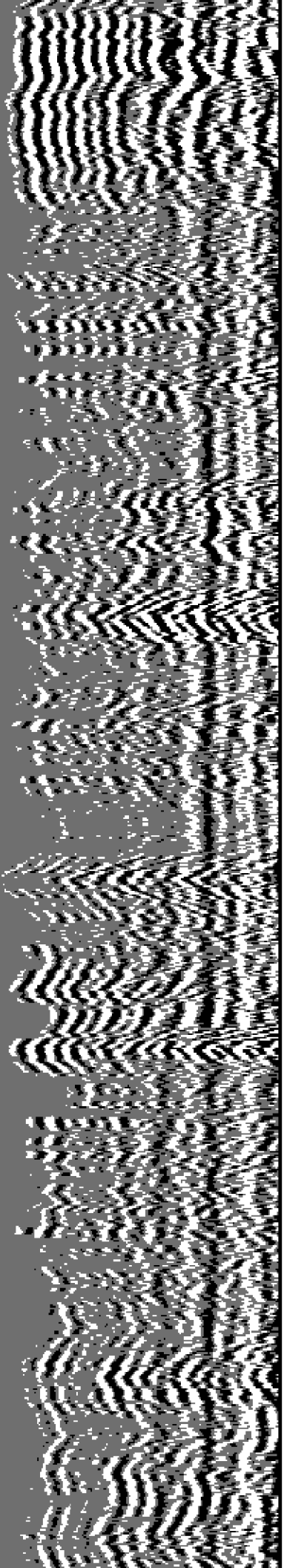


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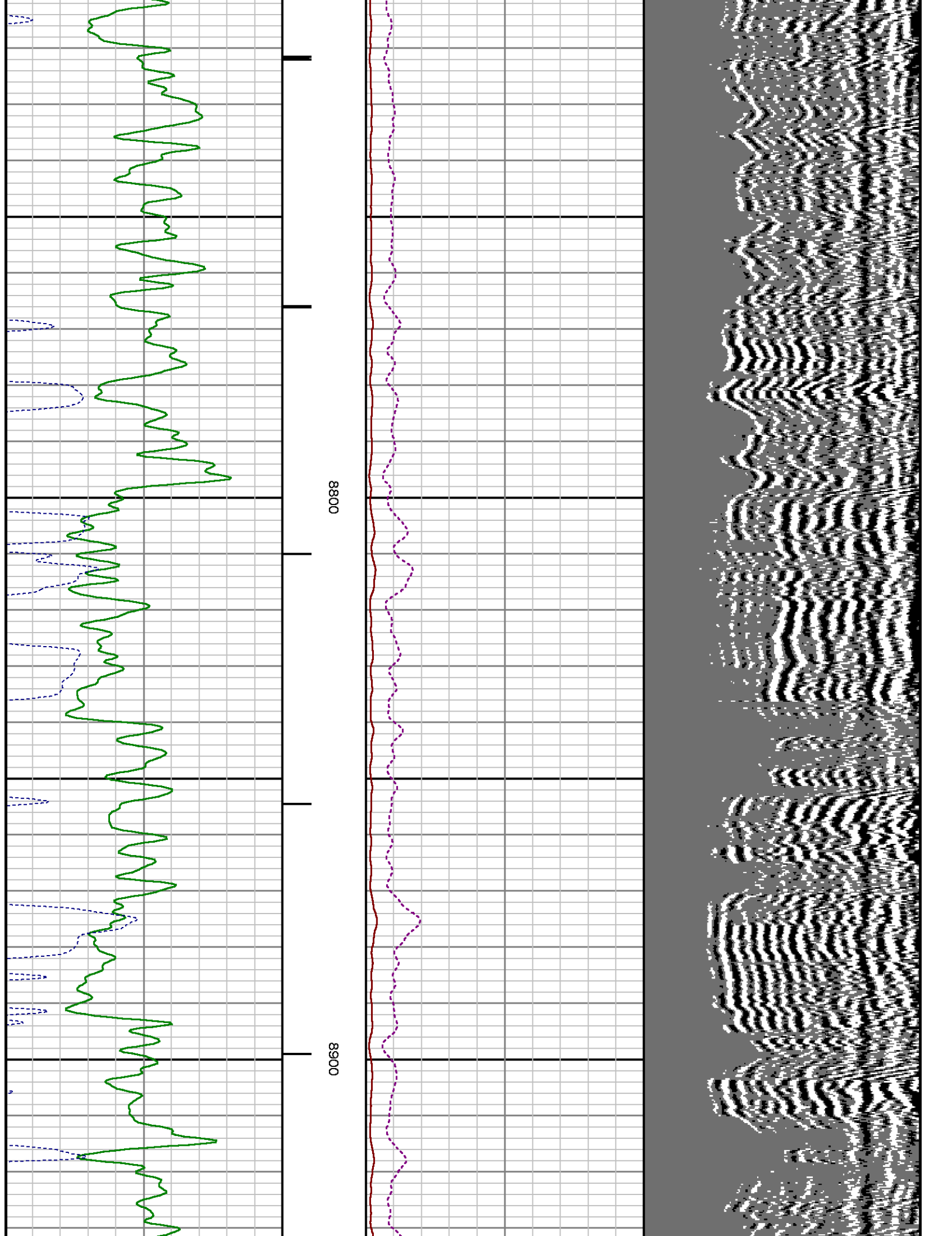
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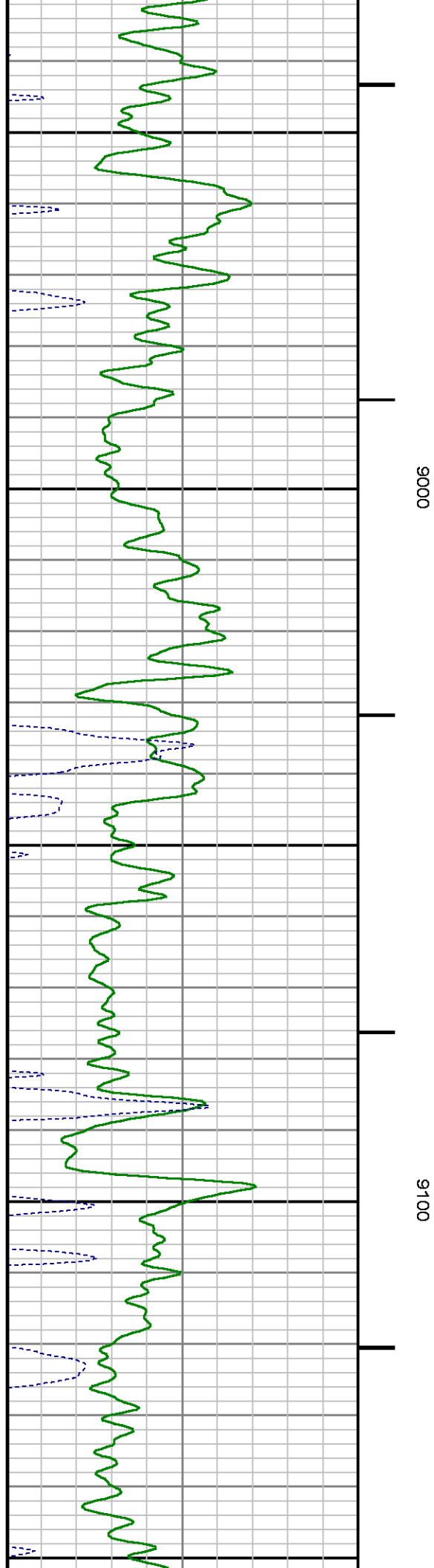
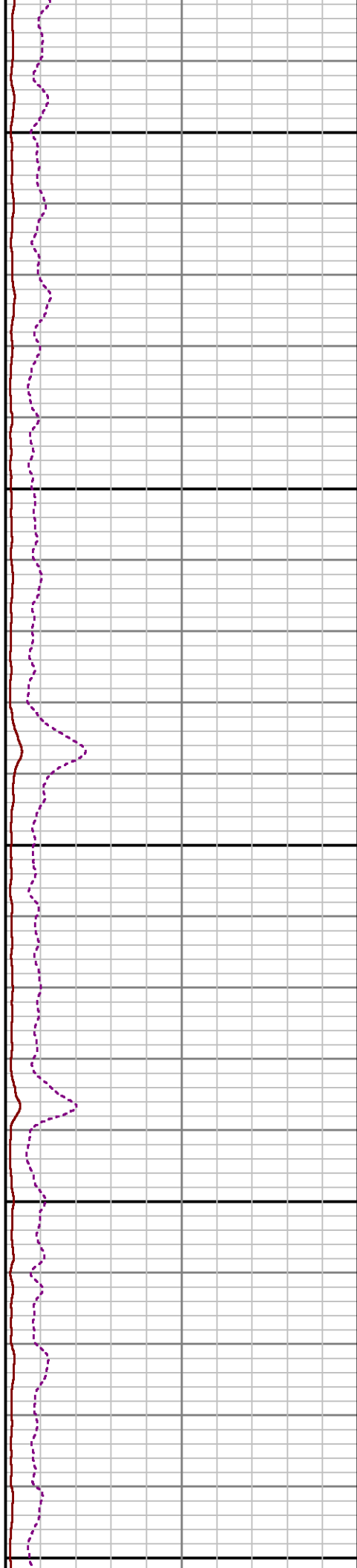
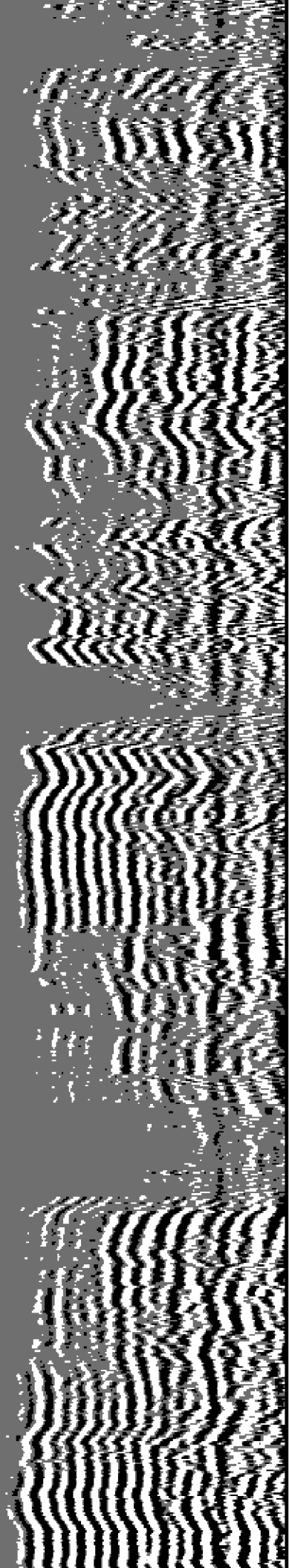


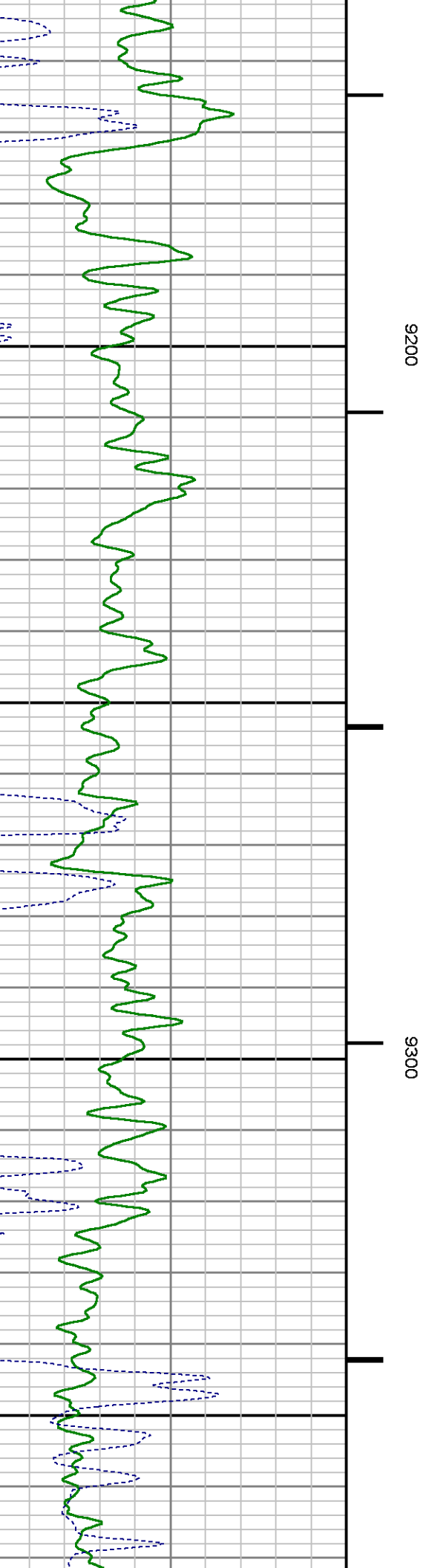
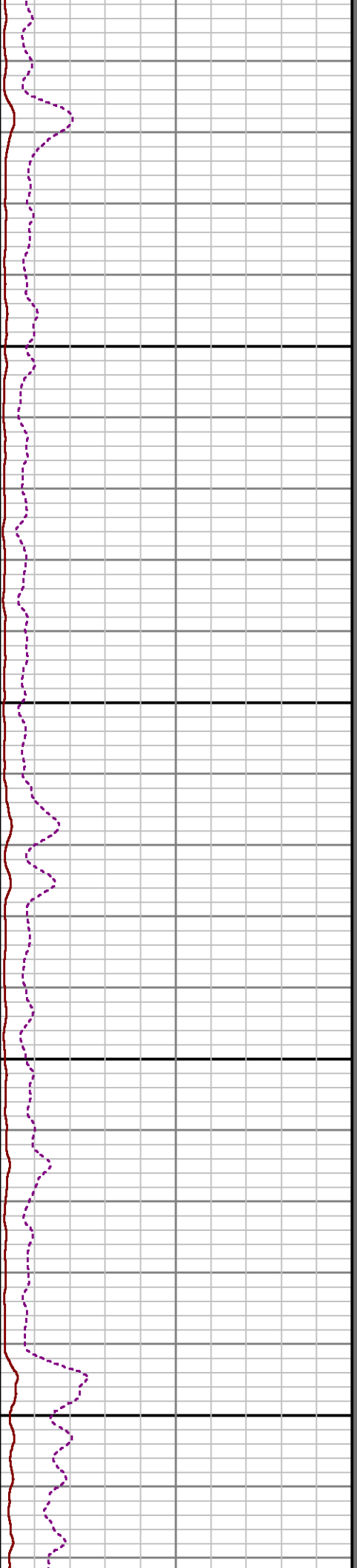
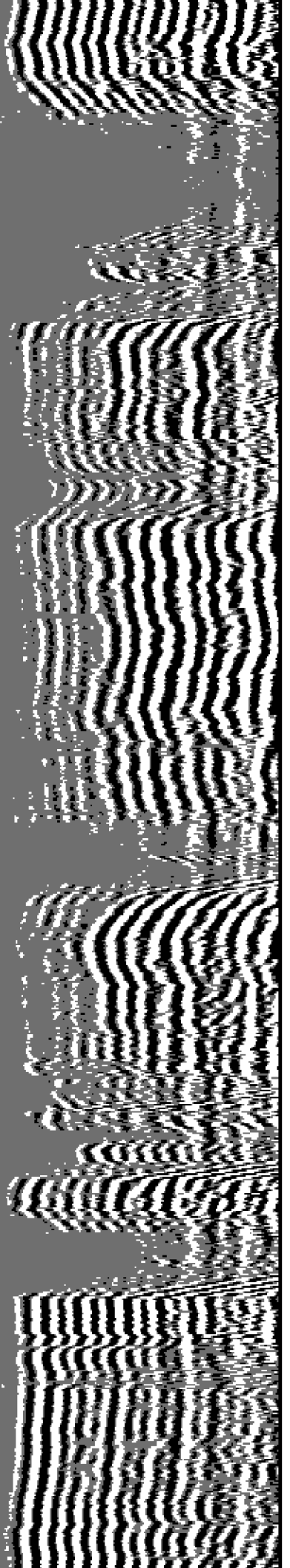


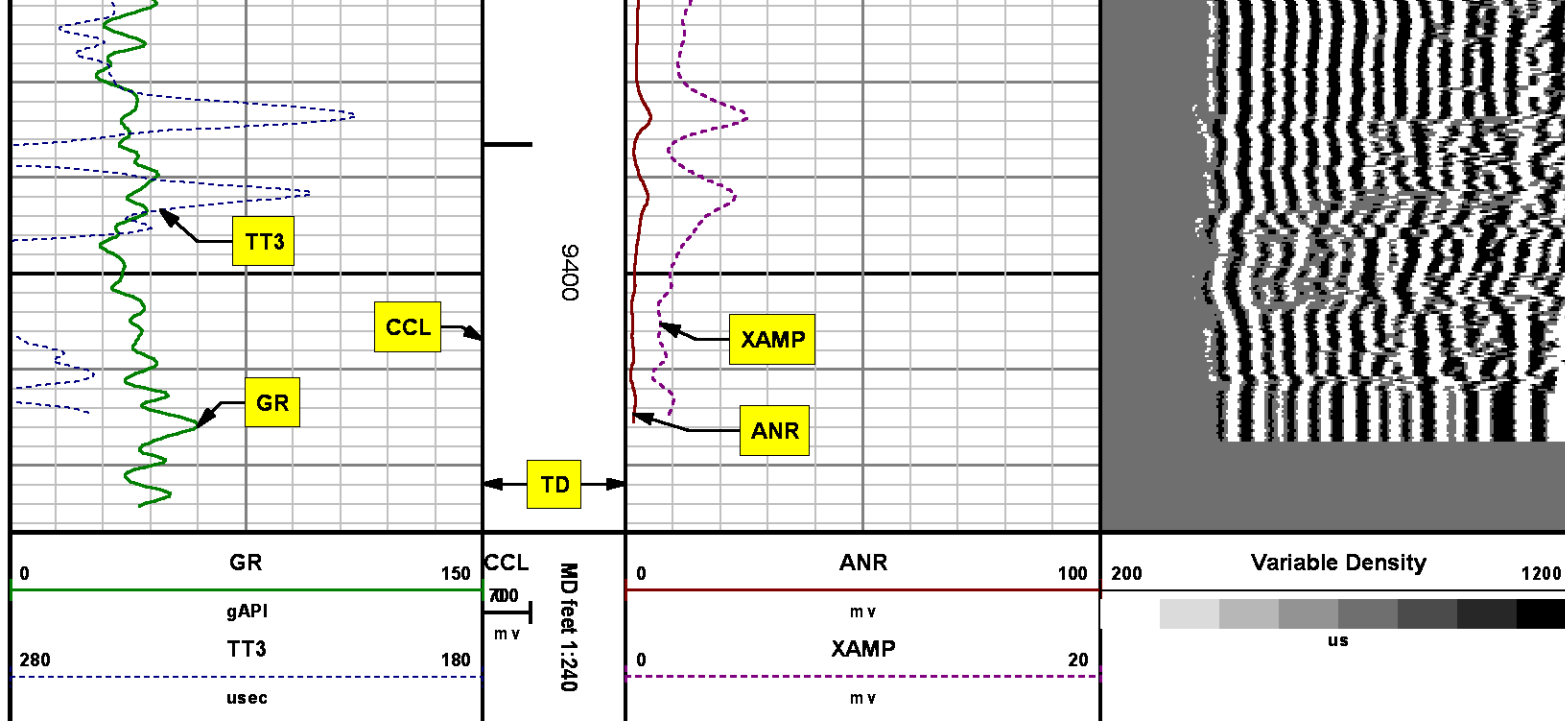












## SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	25.093	9427.000
RAL	Amp Gate Start Near	195.000	usec	25.093	9427.000
RAL	Amp Gate Start Radial	195.000	usec	25.093	9427.000
RAL	Amp Gate Width Far	25.000	usec	25.093	9427.000
RAL	Amp Gate Width Near	25.000	usec	25.093	9427.000
RAL	Amp Gate Width Radial	25.000	usec	25.093	9427.000
RAL	casing od	4.500	inches	25.093	9427.000
RAL	casing wt	11.600	lbm/ft	25.093	9427.000
RAL	FB Start Far	291.900	usec	25.093	9427.000
RAL	FB Start Near	175.391	usec	25.093	9427.000
RAL	FB Start Radial	175.391	usec	25.093	9427.000
RAL	FB Thresh Far	10.000	mV	25.093	9427.000
RAL	FB Thresh Near	4.000	mV	25.093	9427.000
RAL	FB Thresh Radial	4.000	mV	25.093	9427.000
RAL	Fluid Travel Time	200.000	usec/ft	25.093	9427.000

# DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

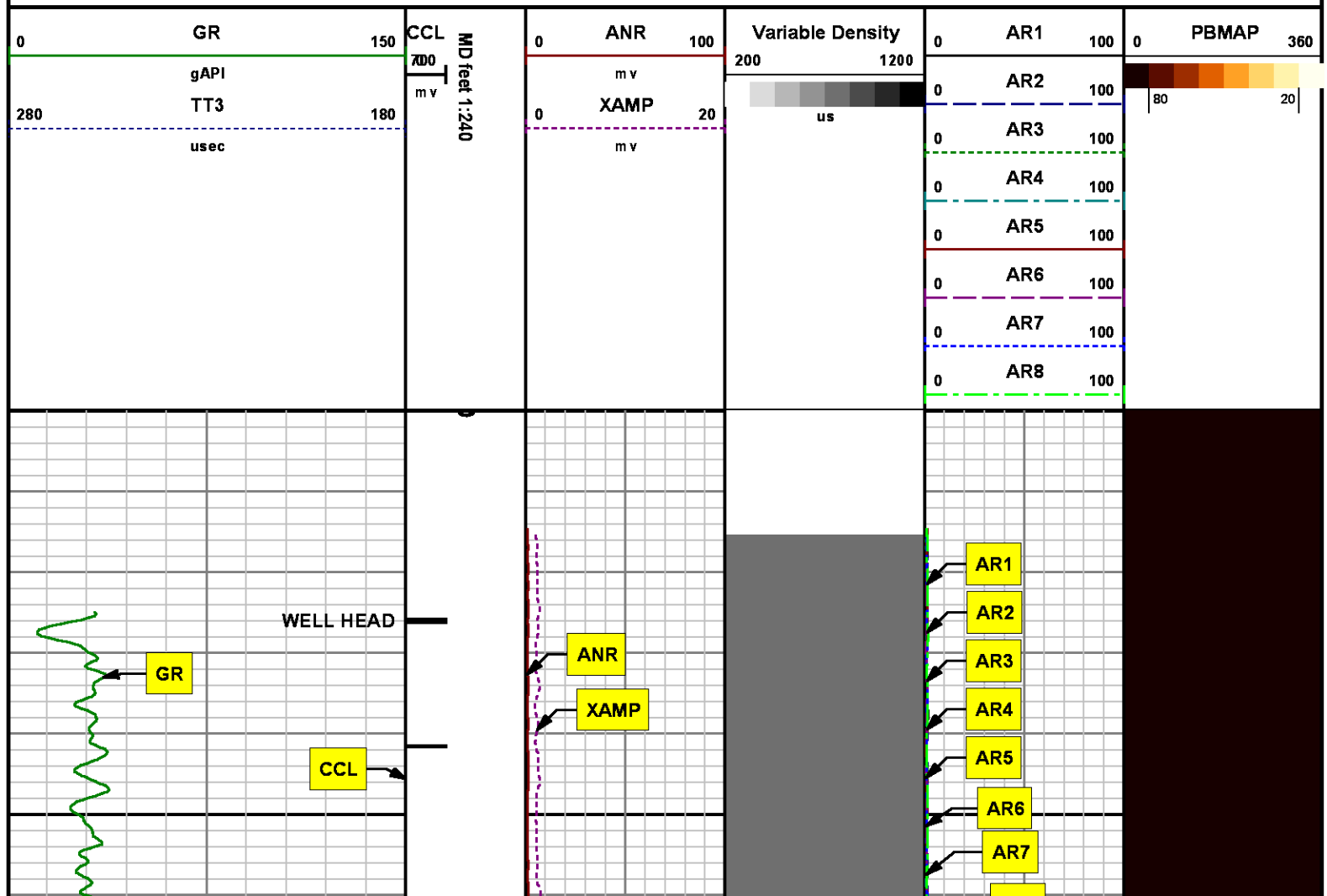
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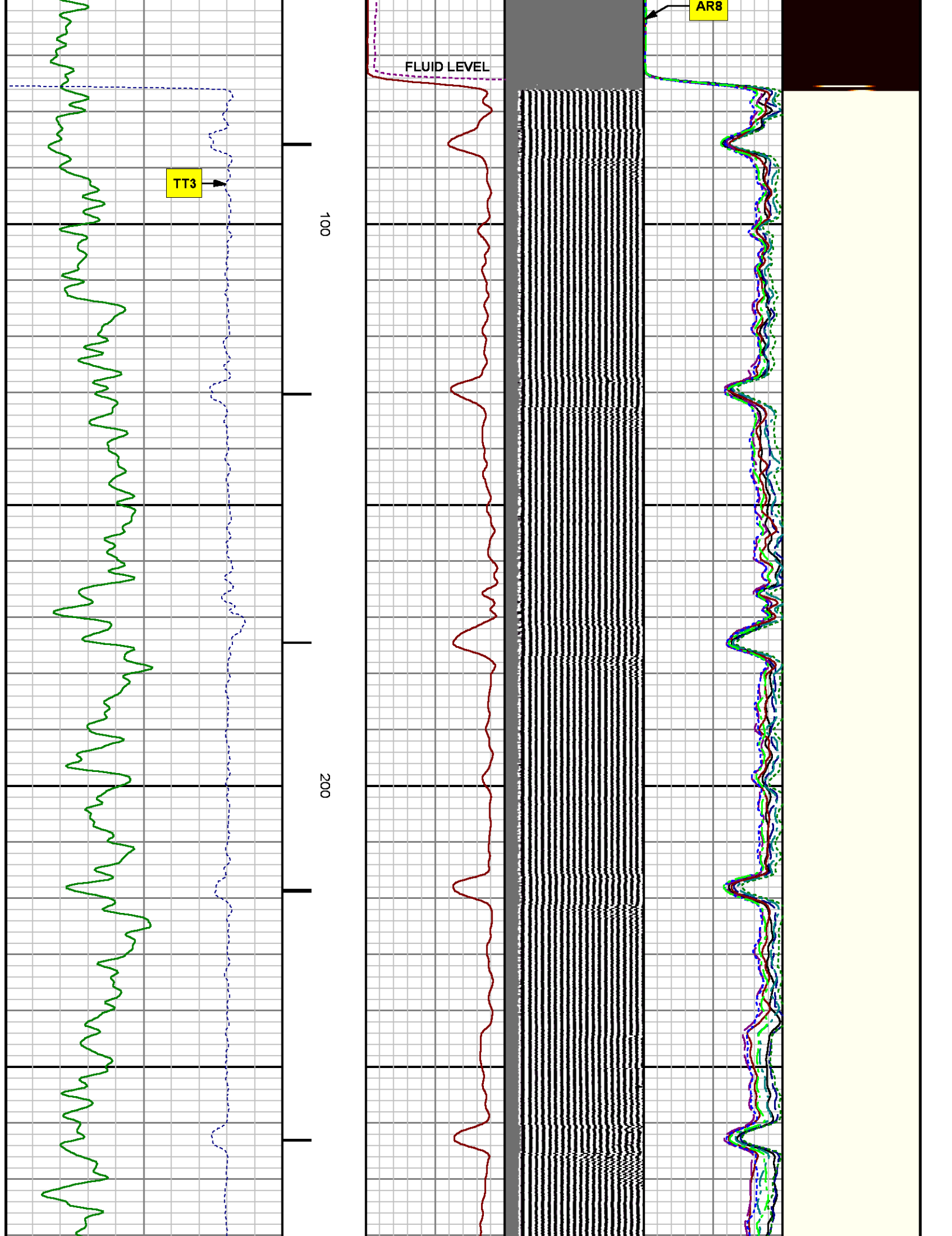
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Mode : PlotMgr 5.4.504

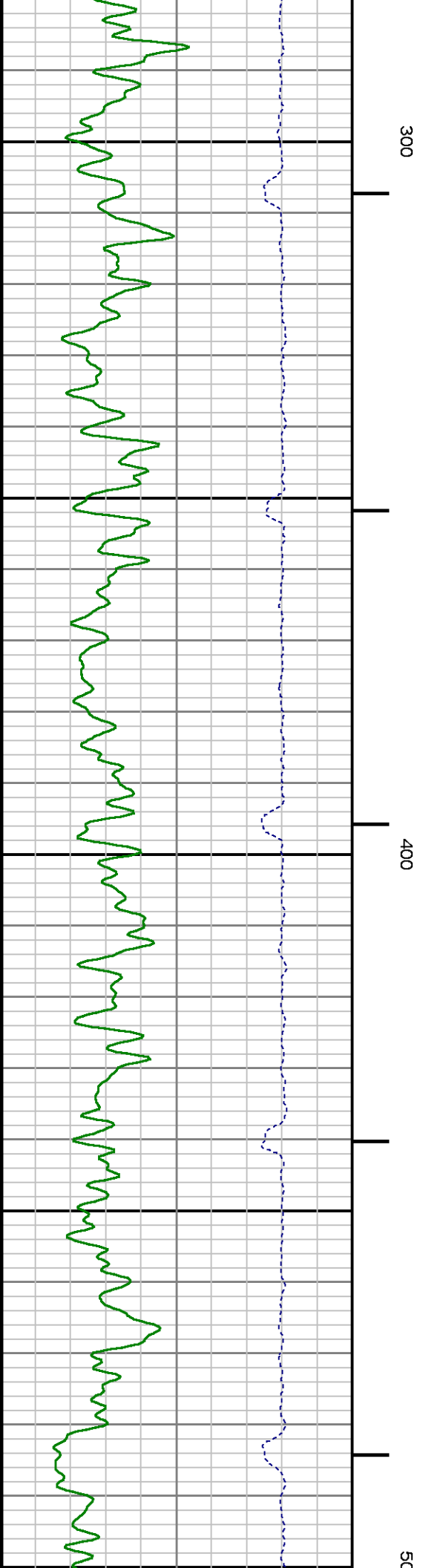
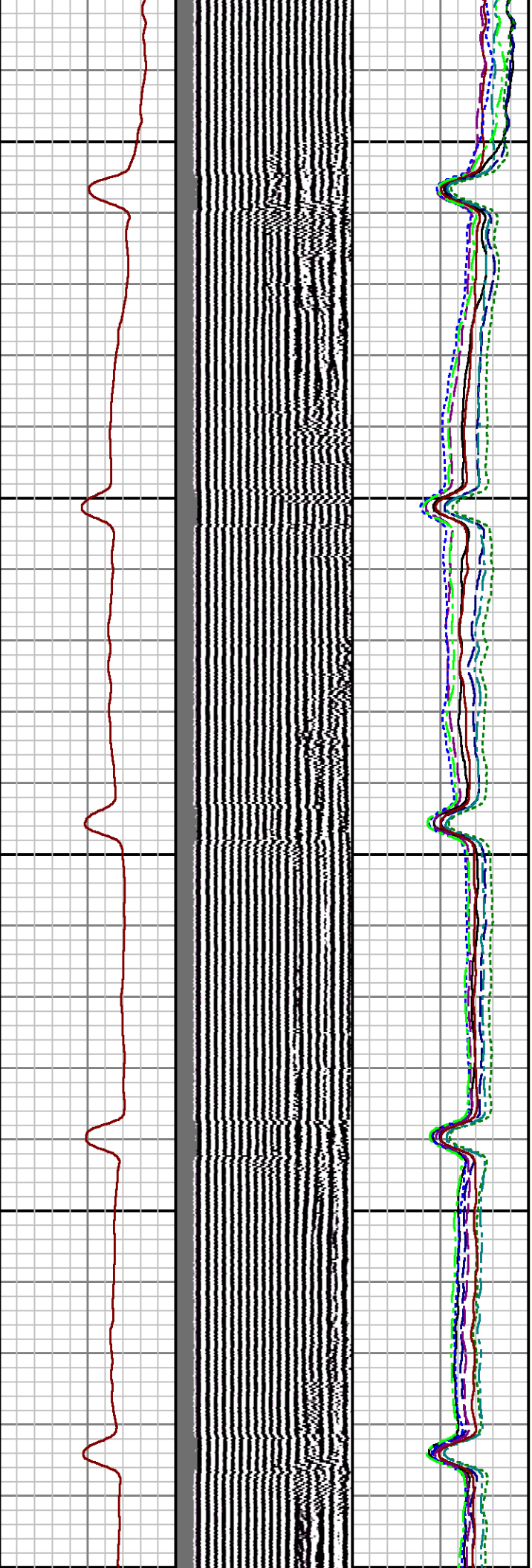
Interval : 0.00 - 9427.00 feet UP

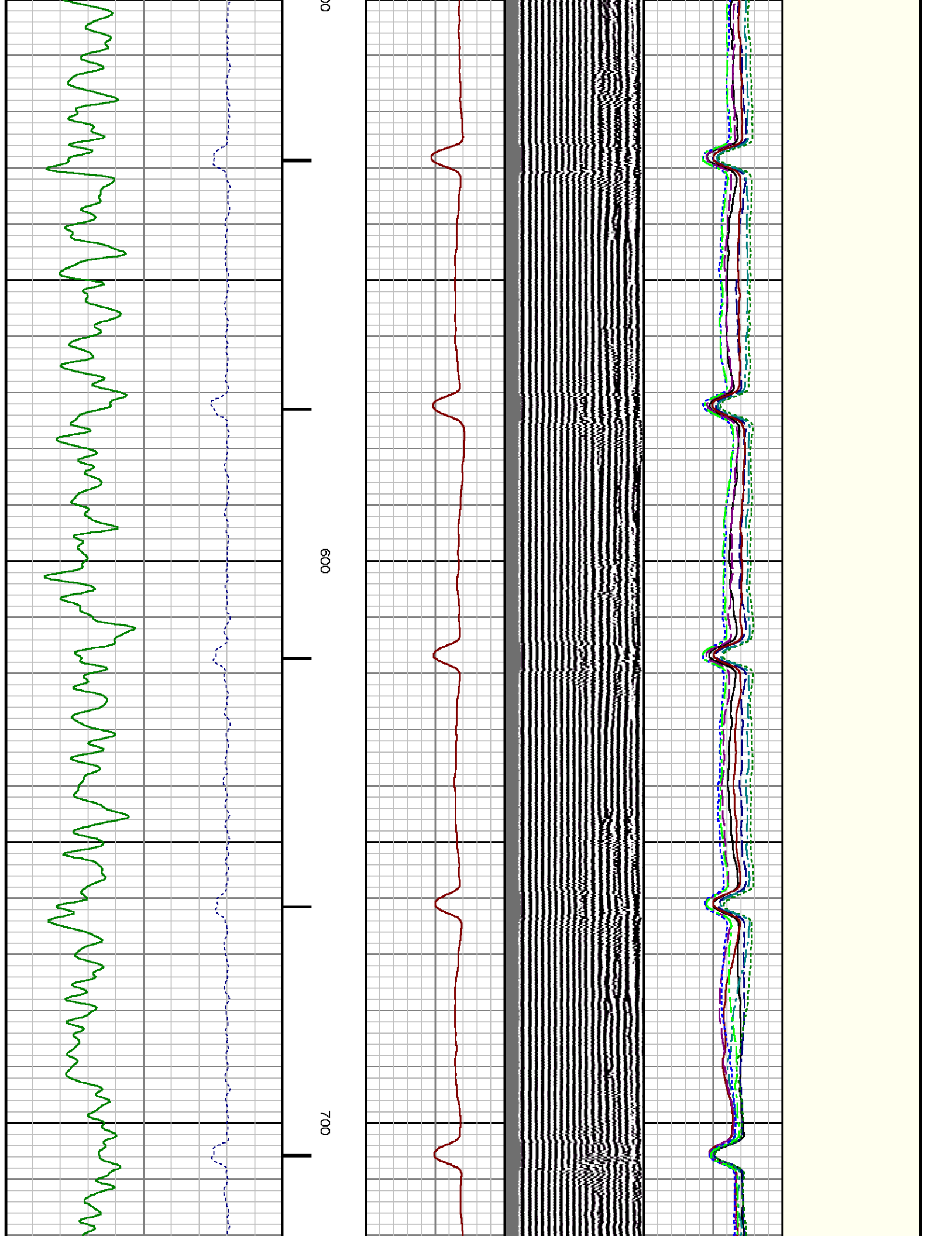
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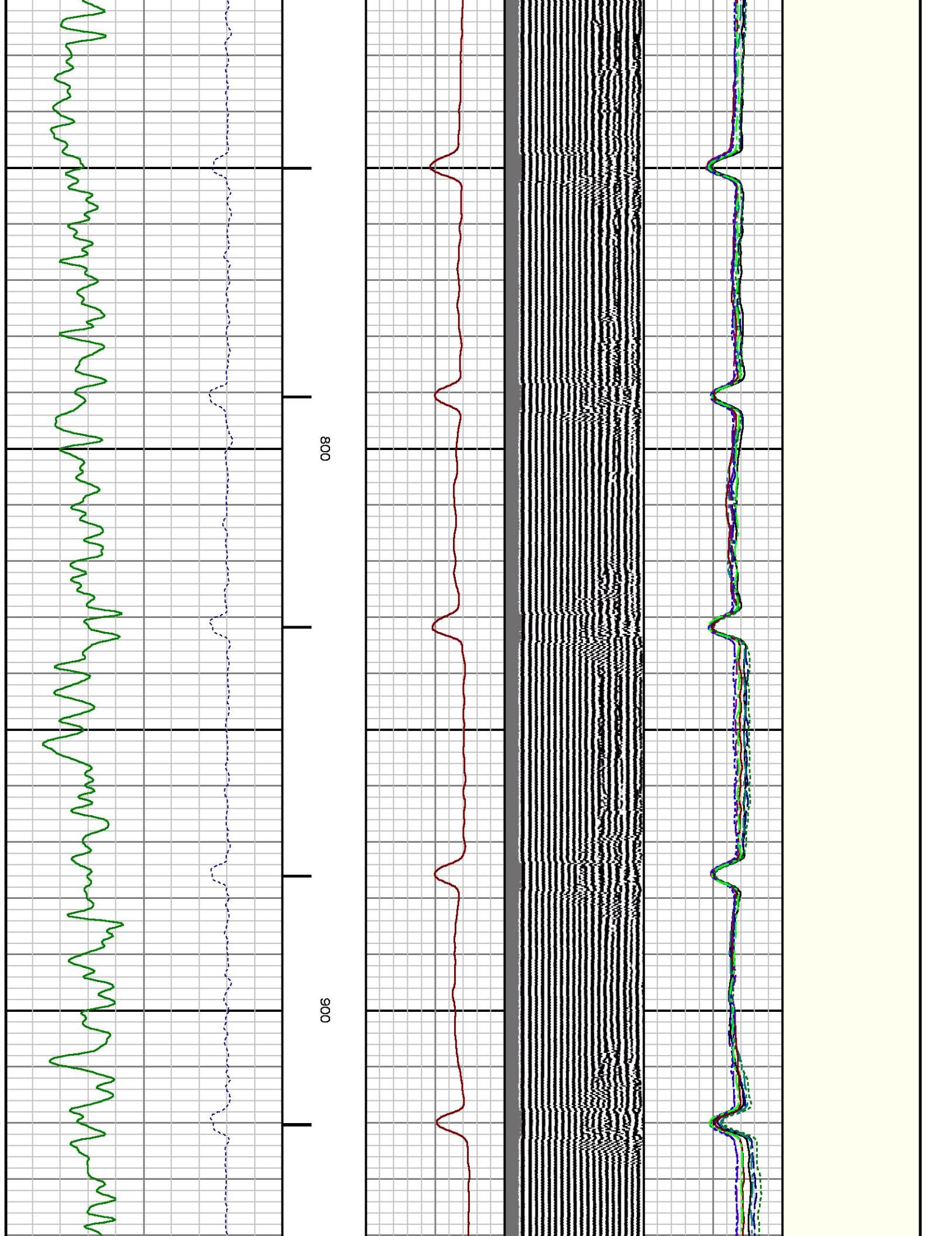


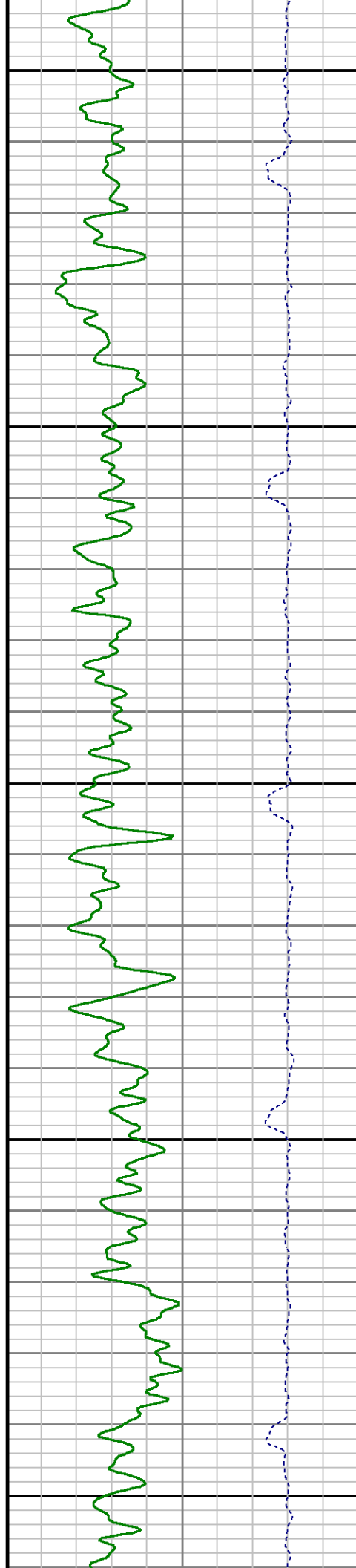
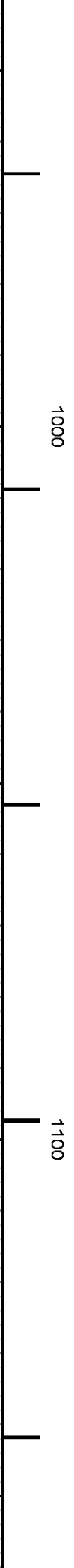
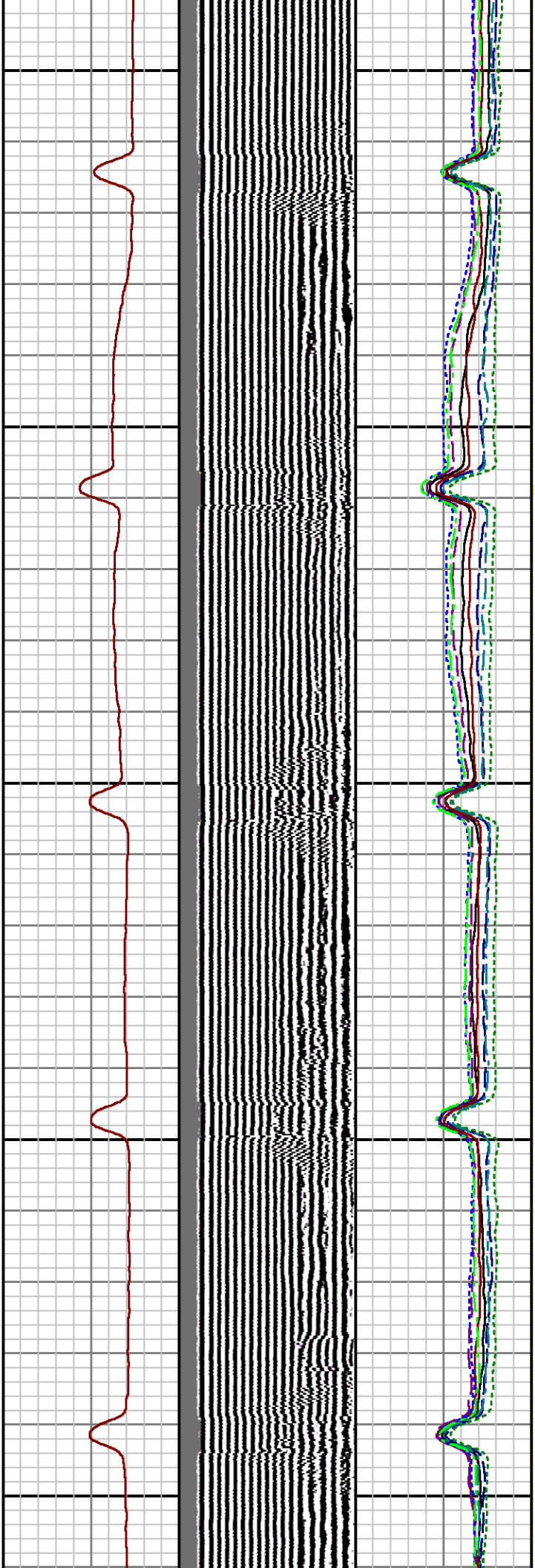


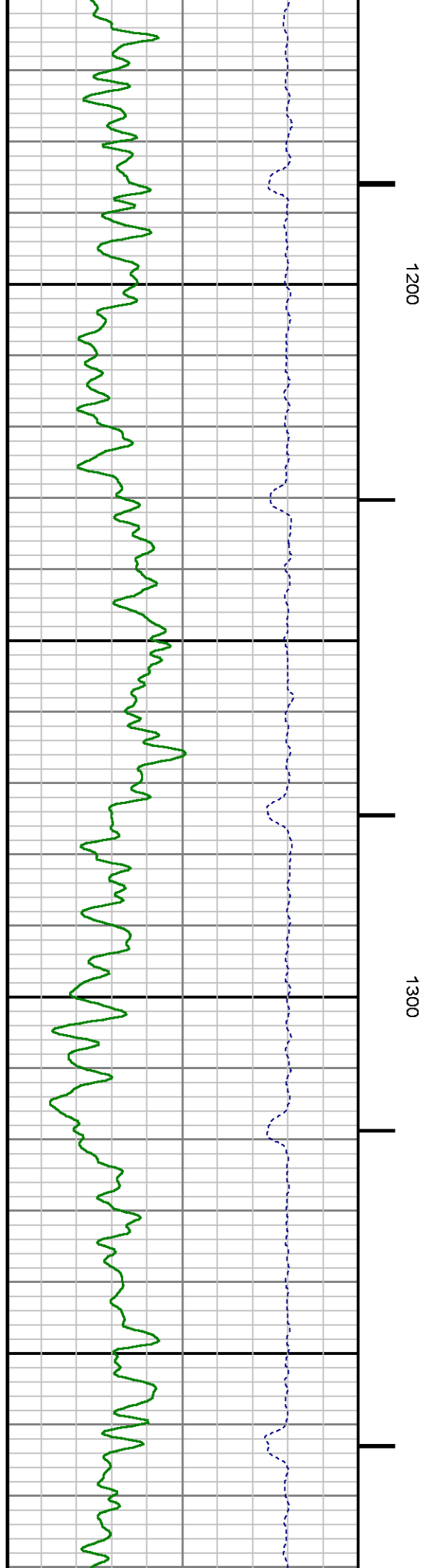
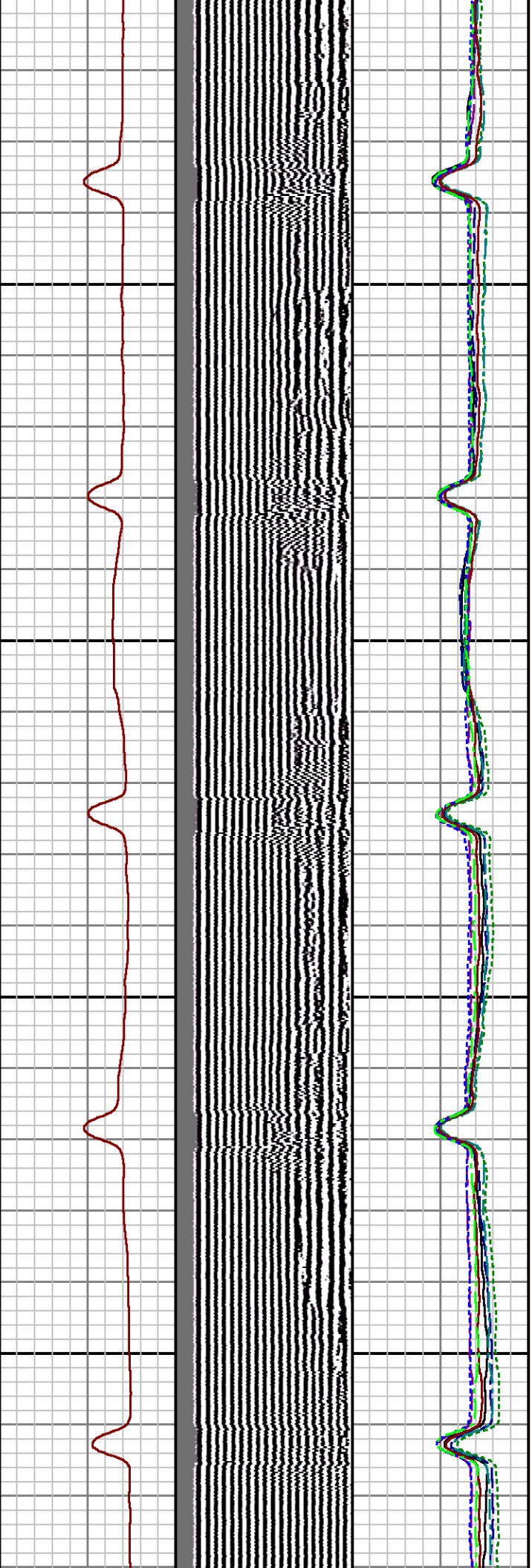




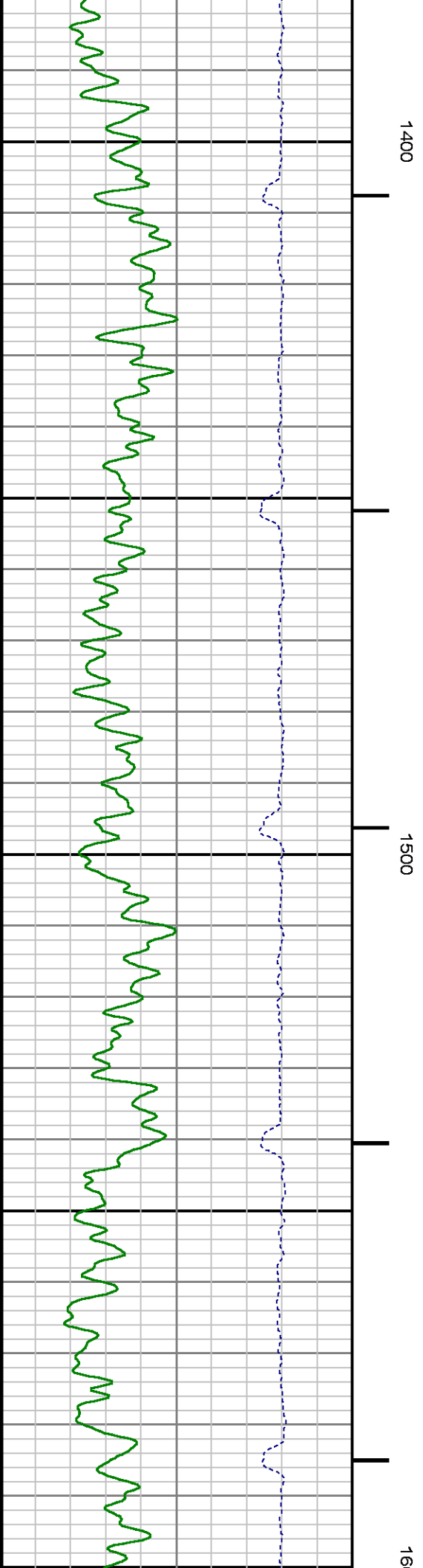
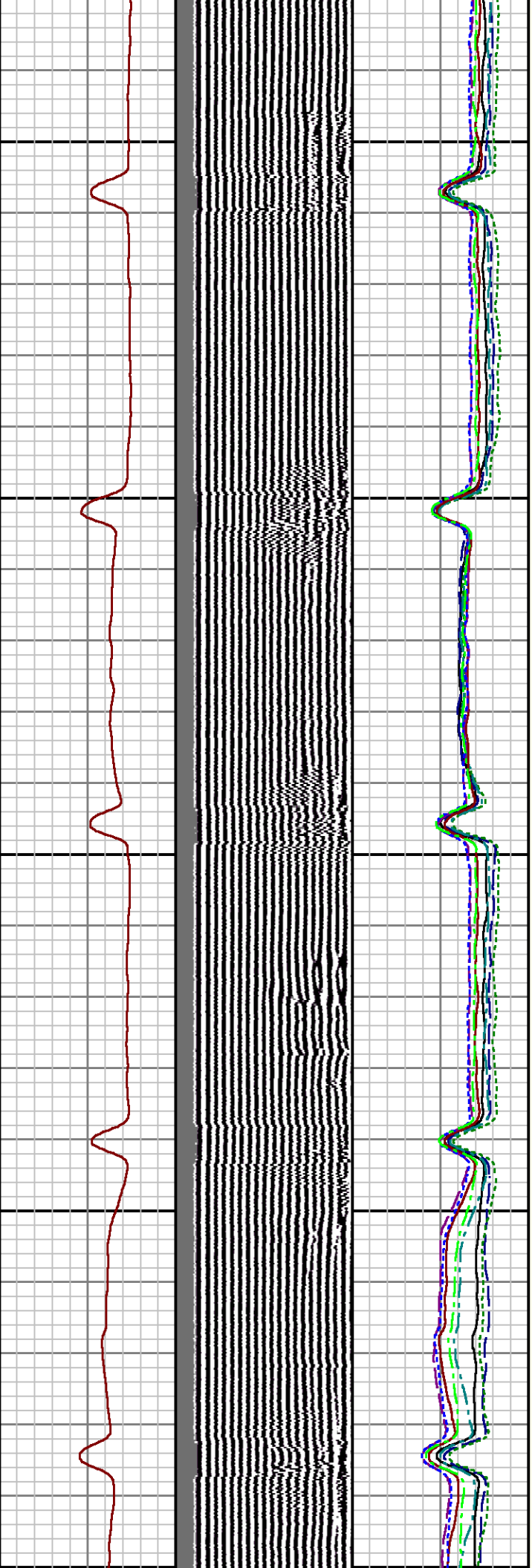




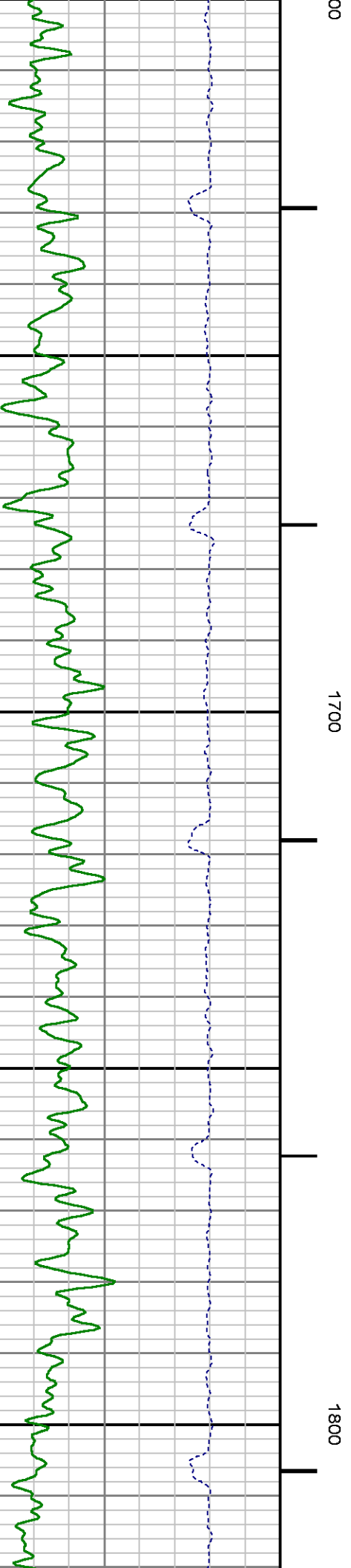
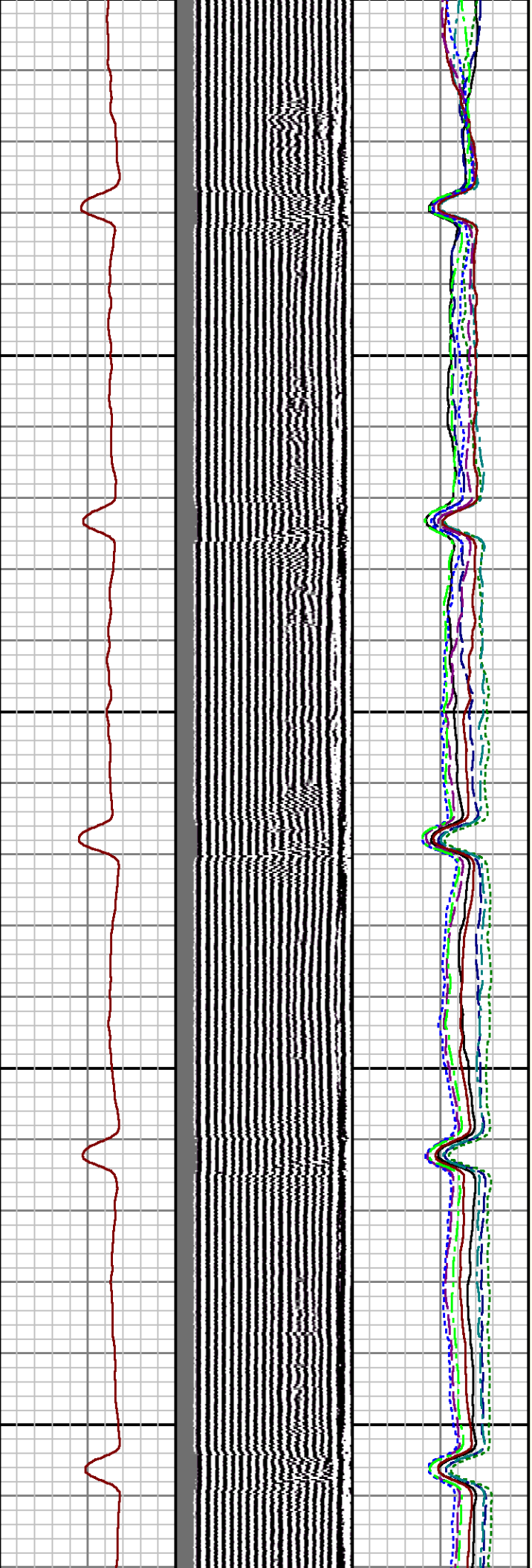


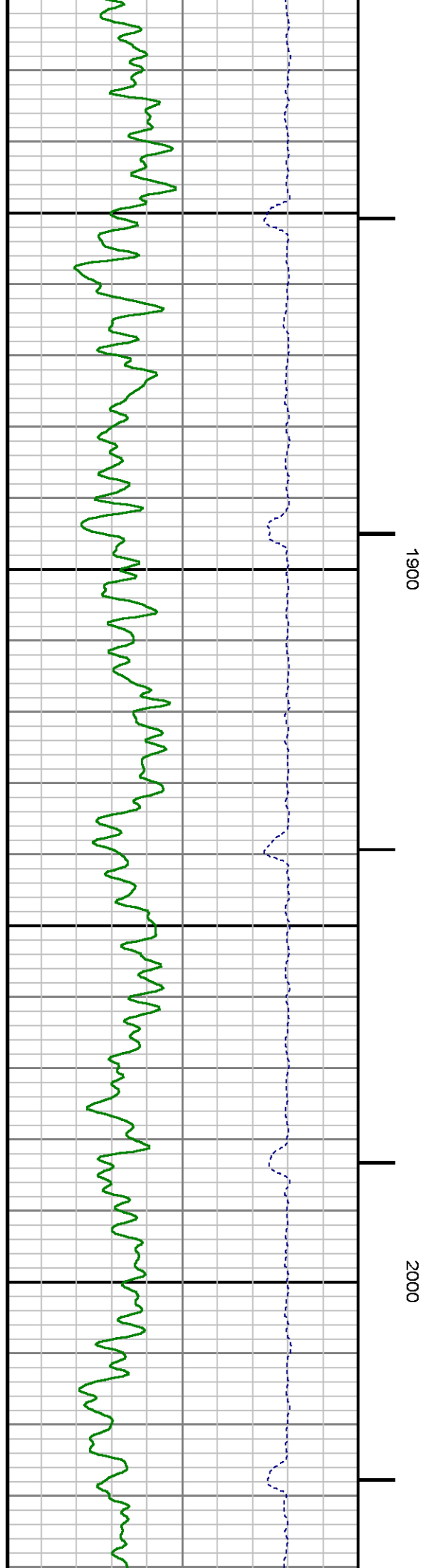
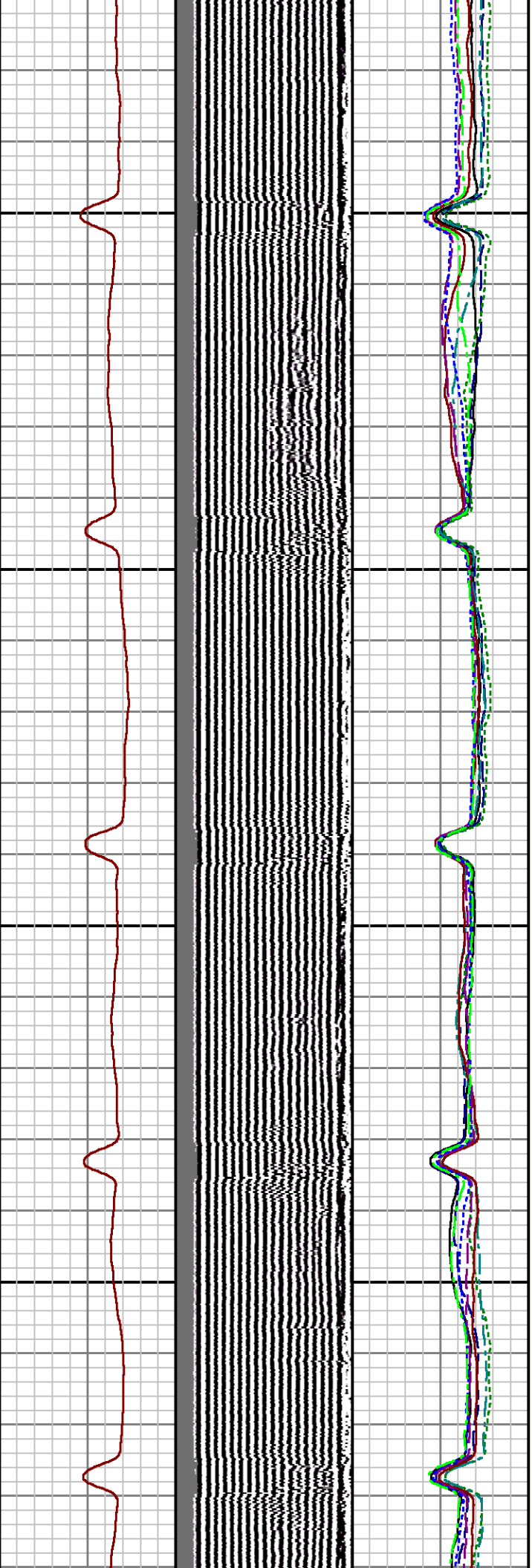


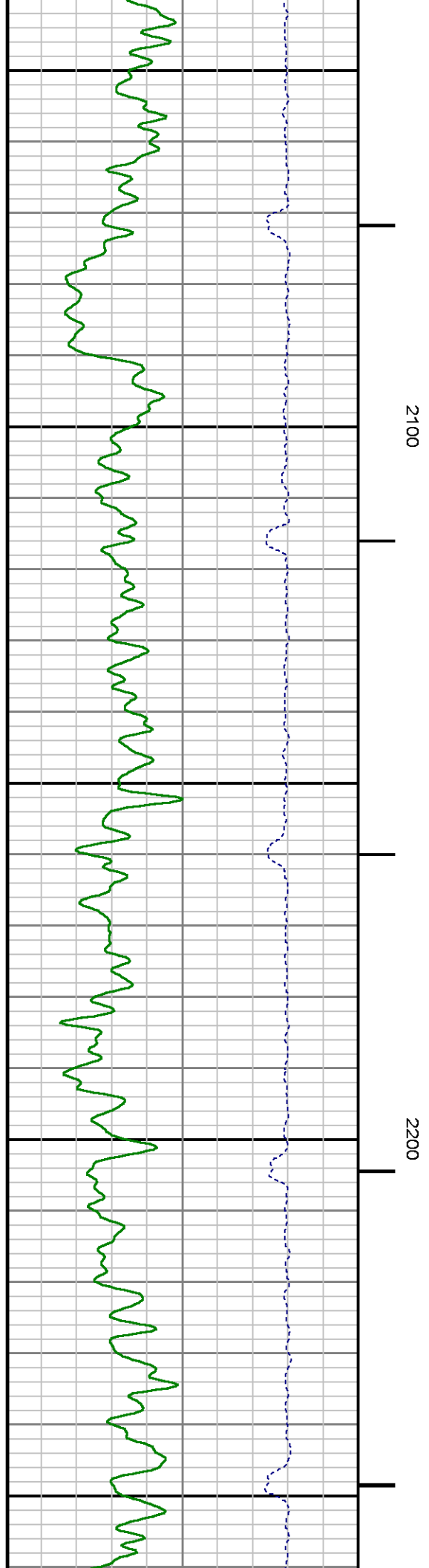
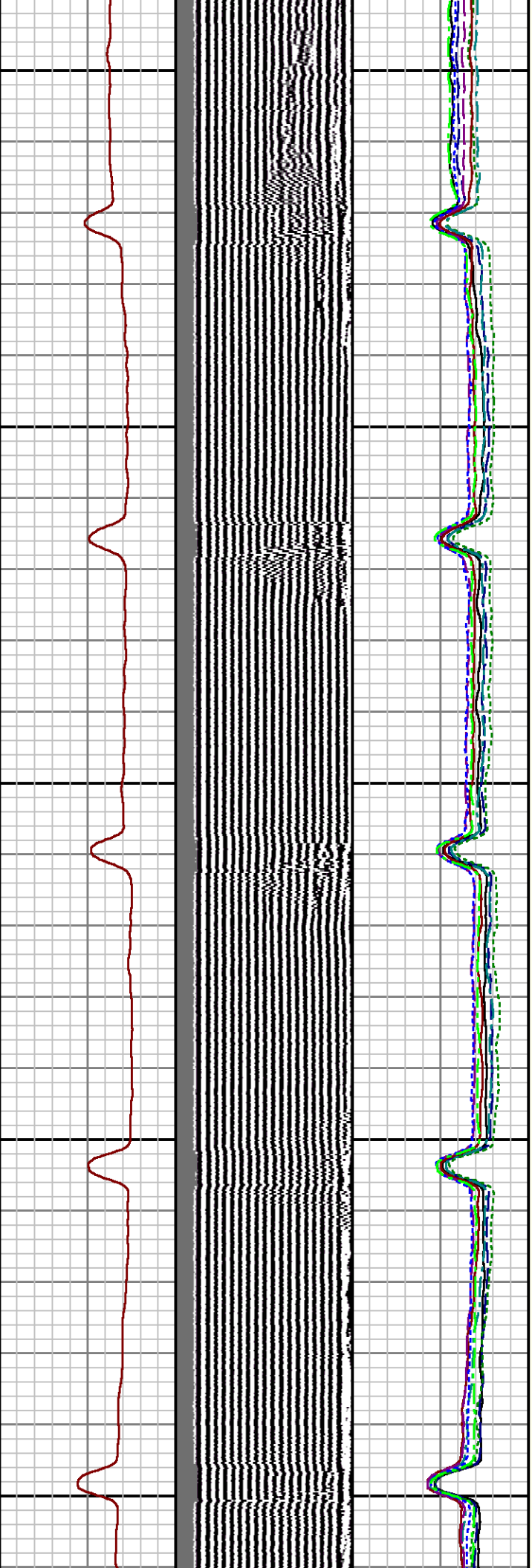


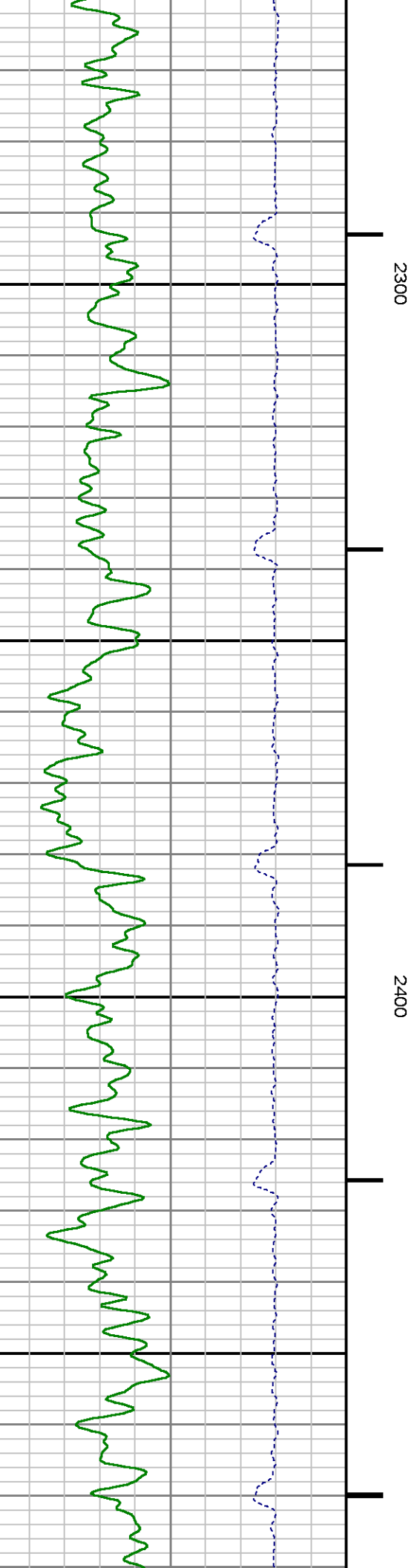
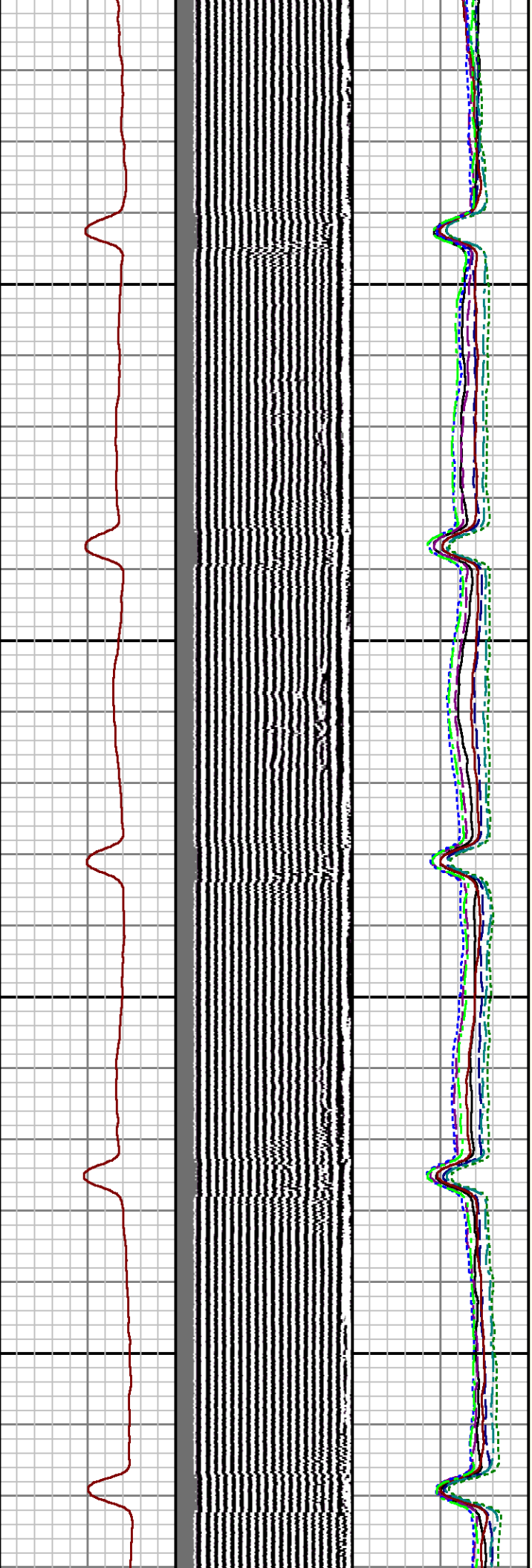


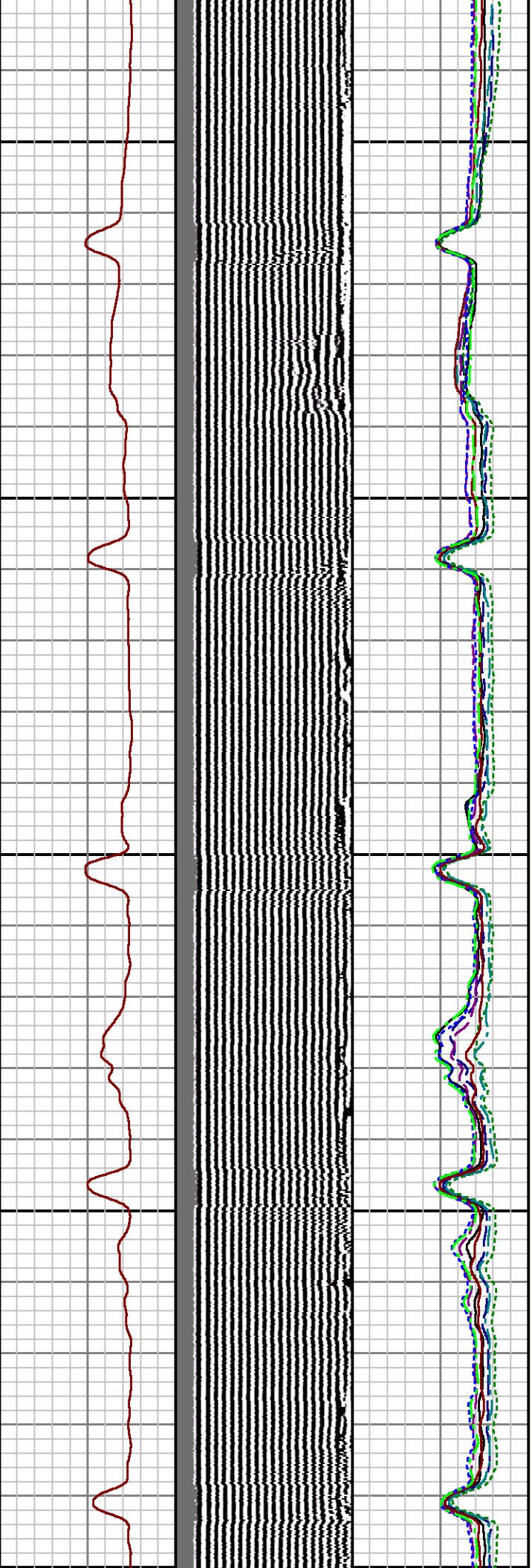










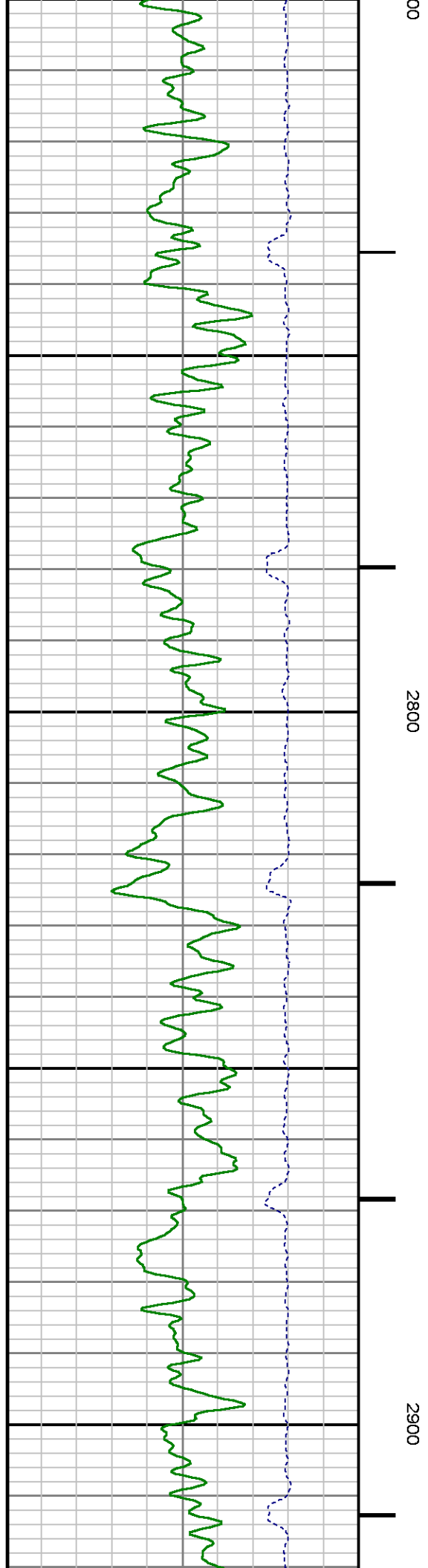
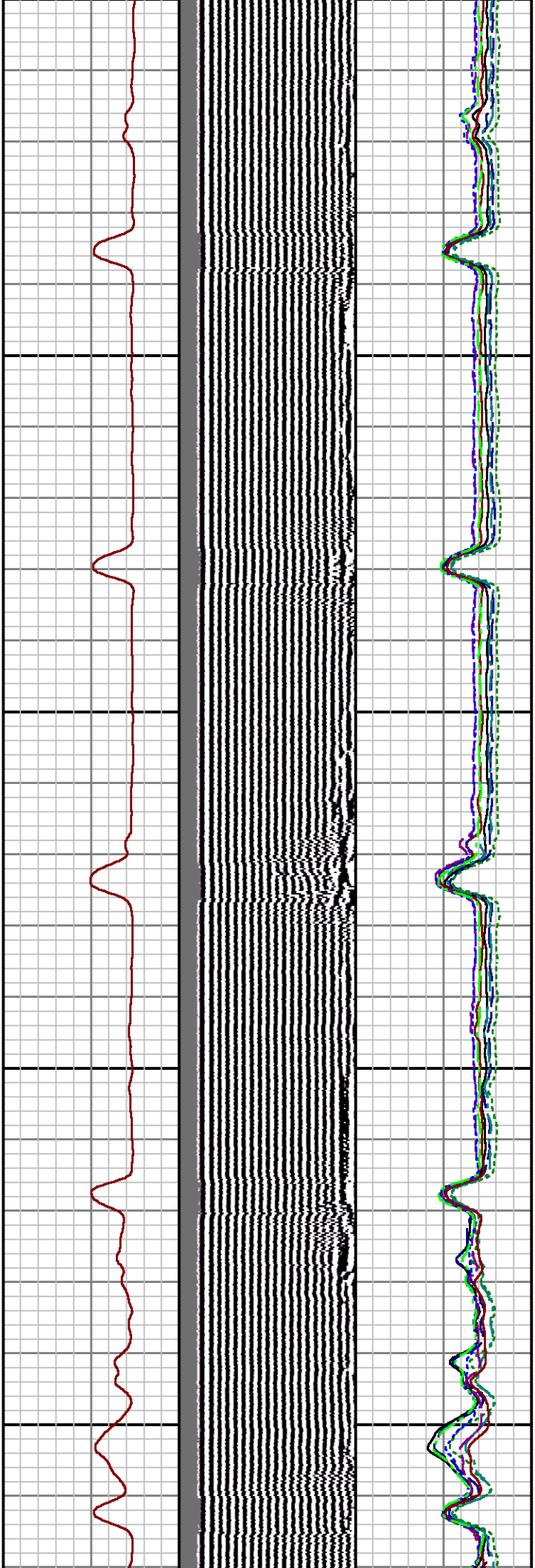


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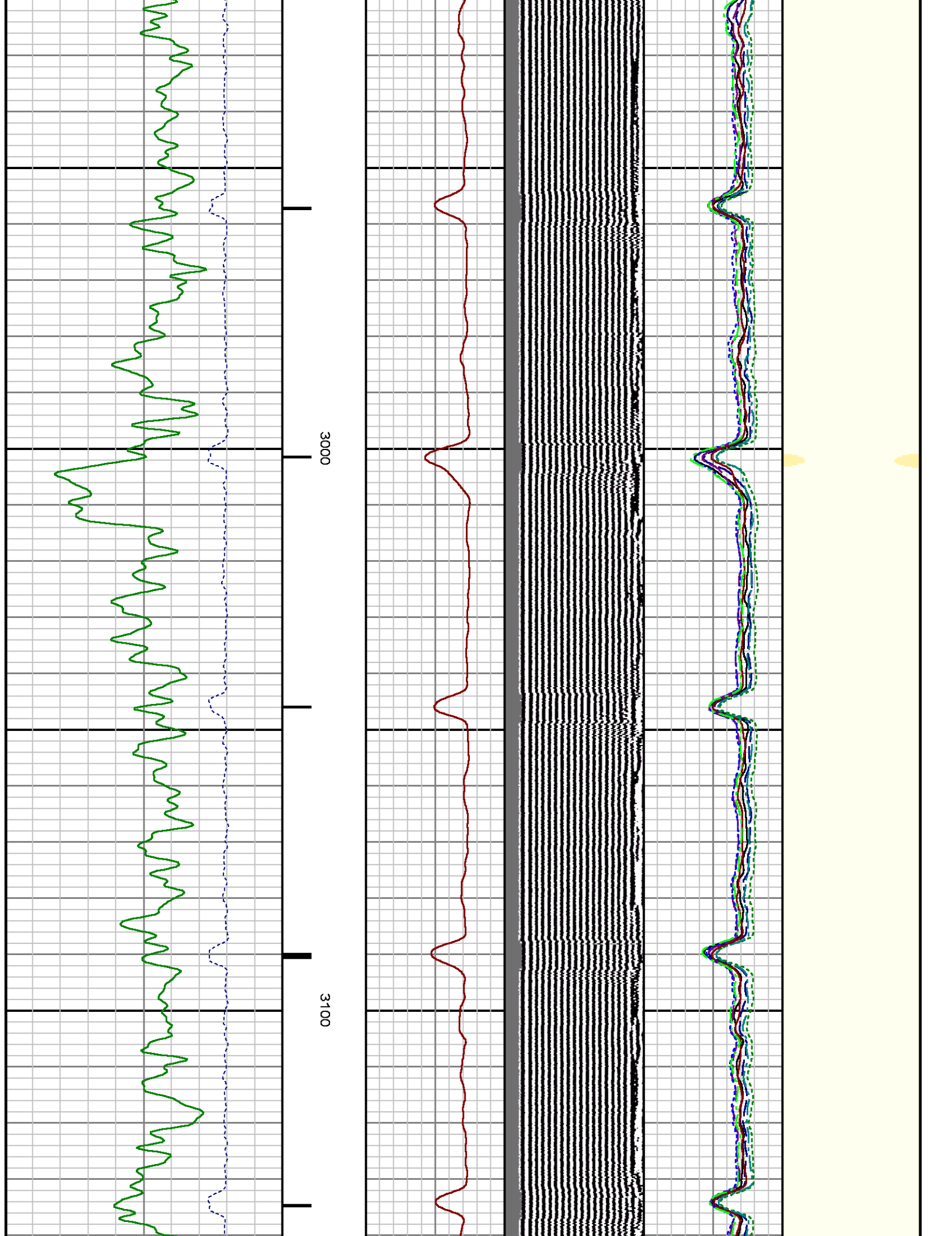
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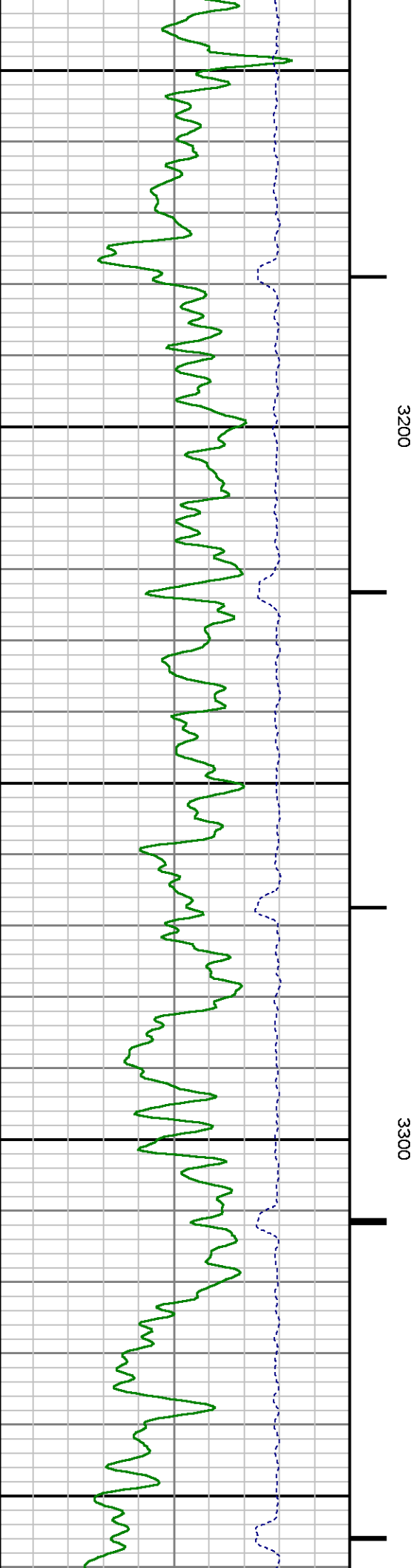
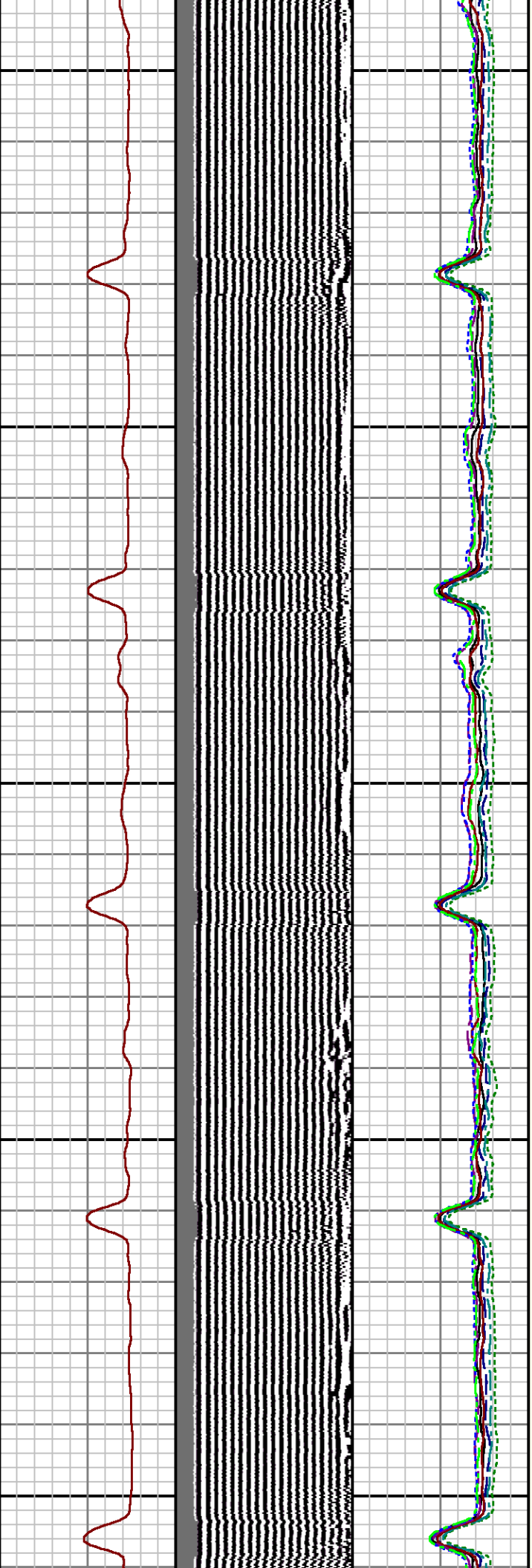
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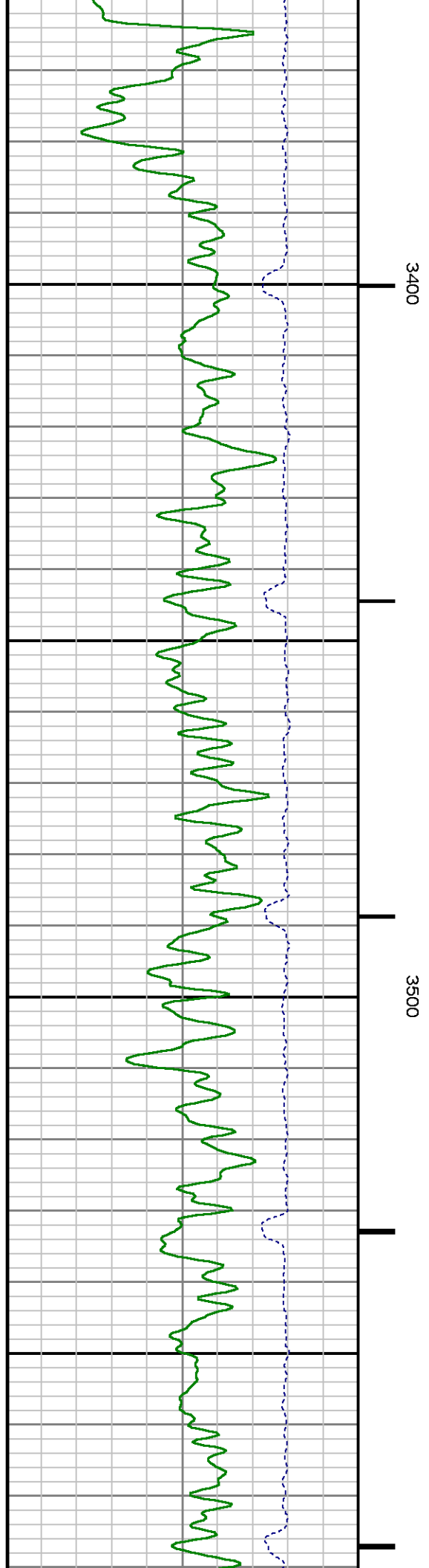
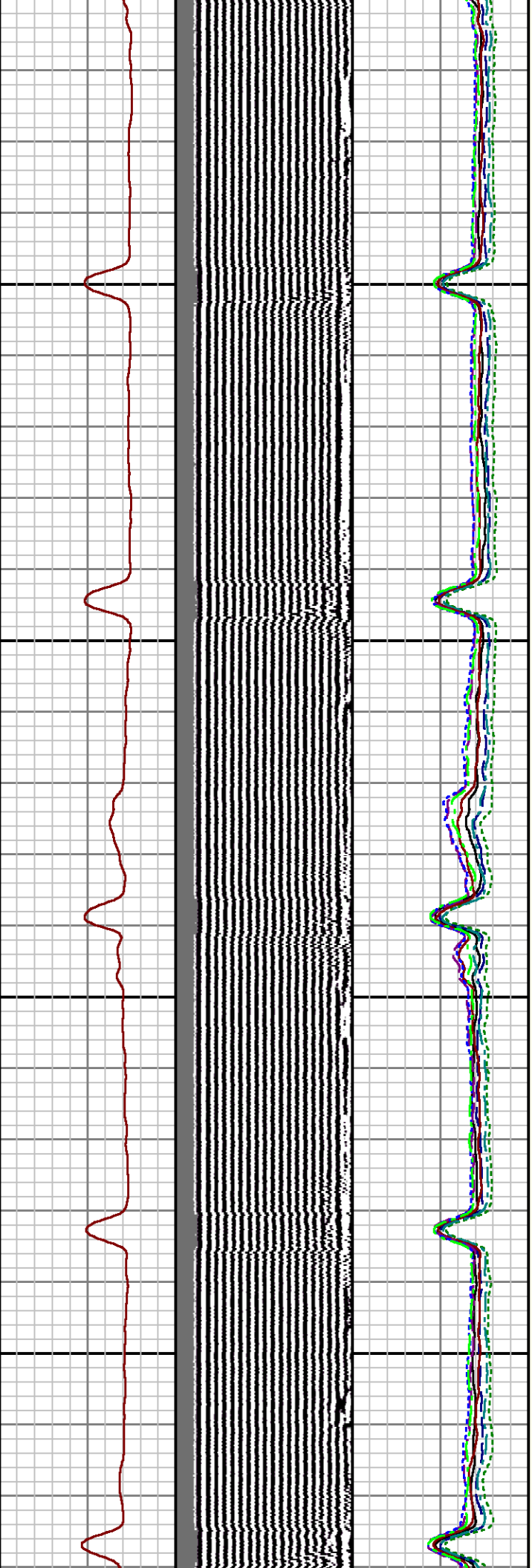


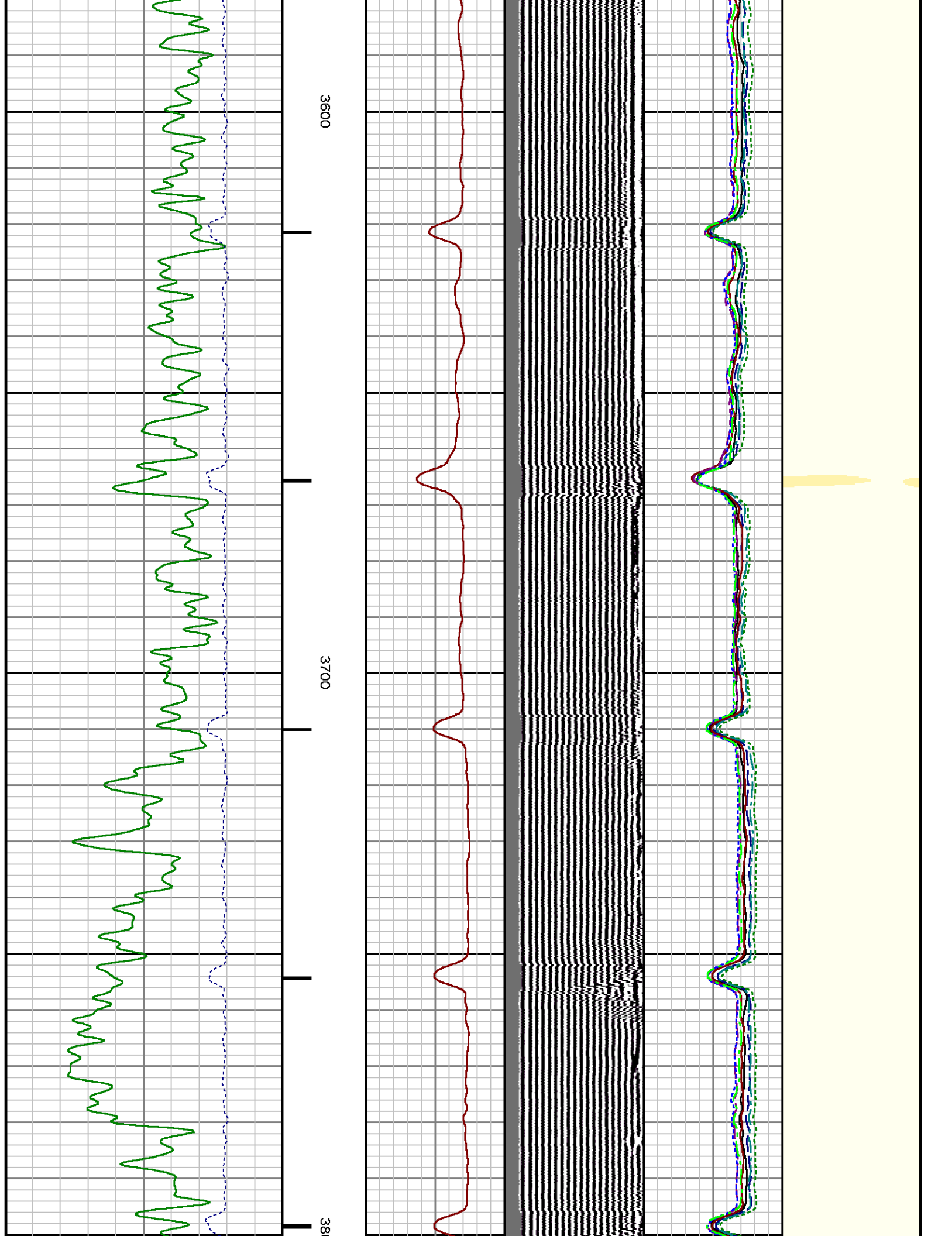


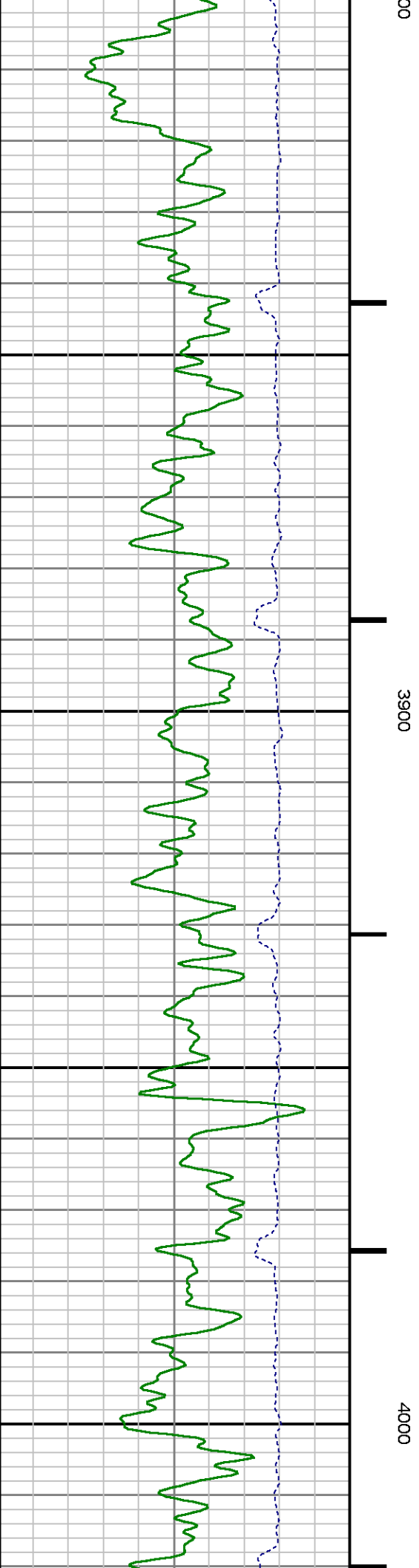
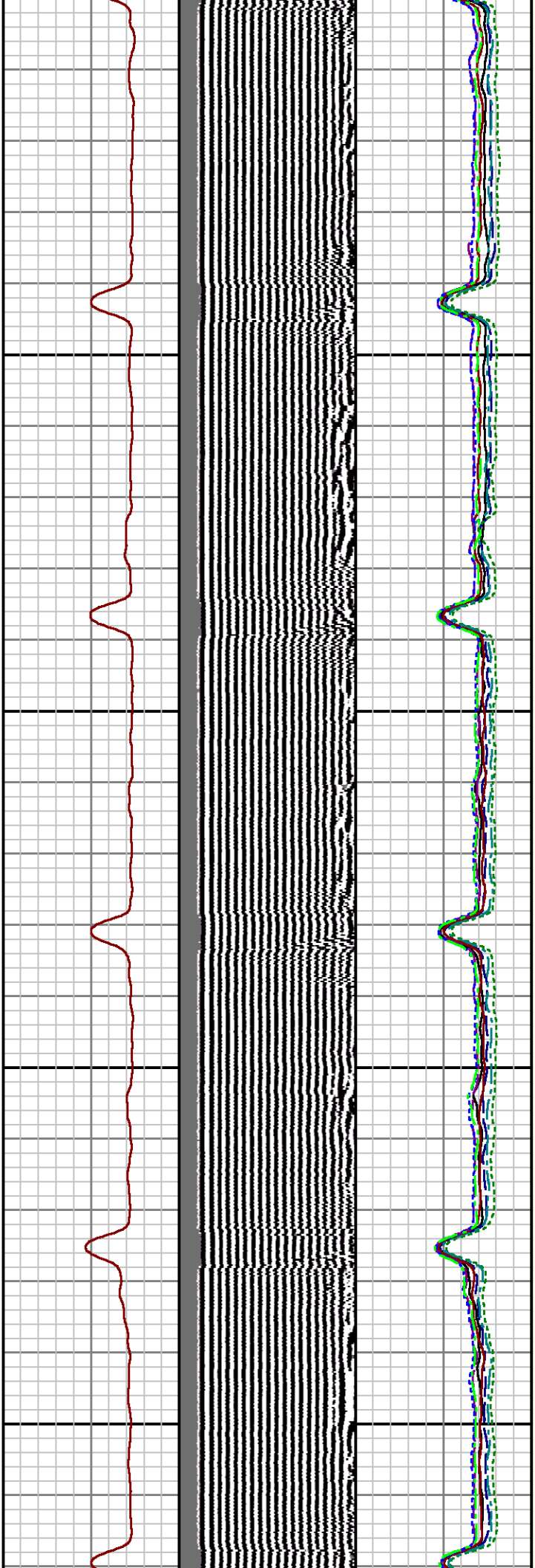




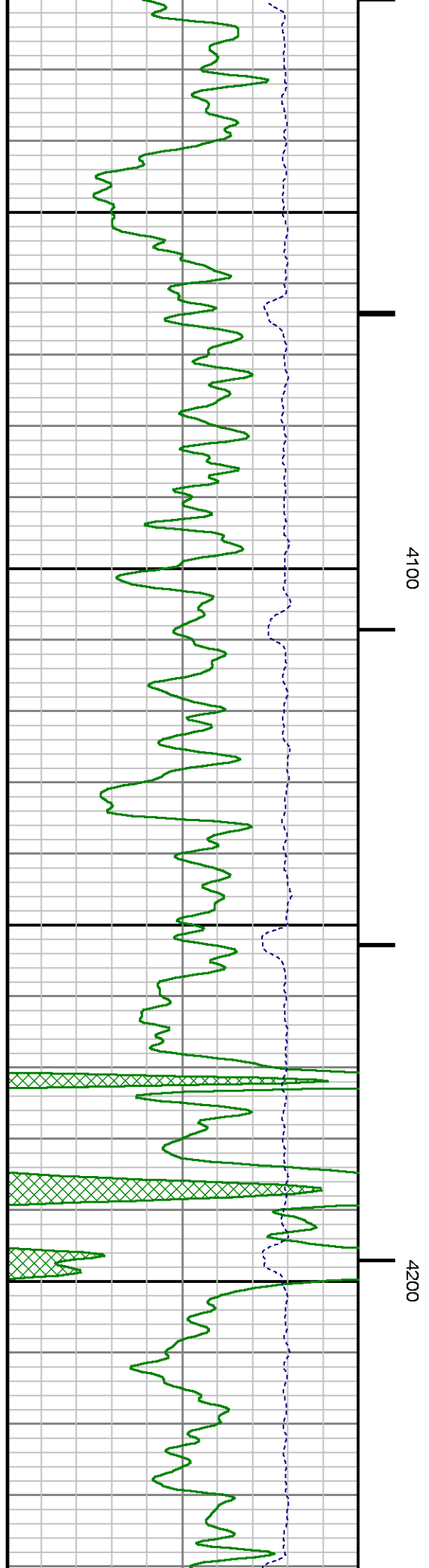
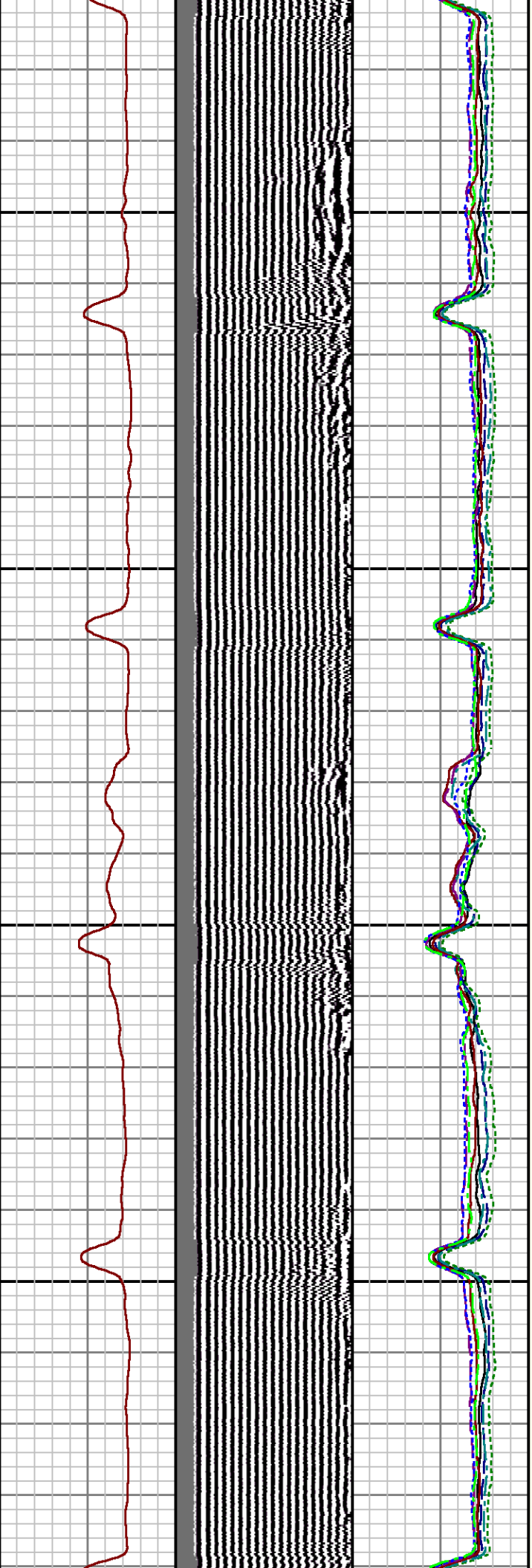




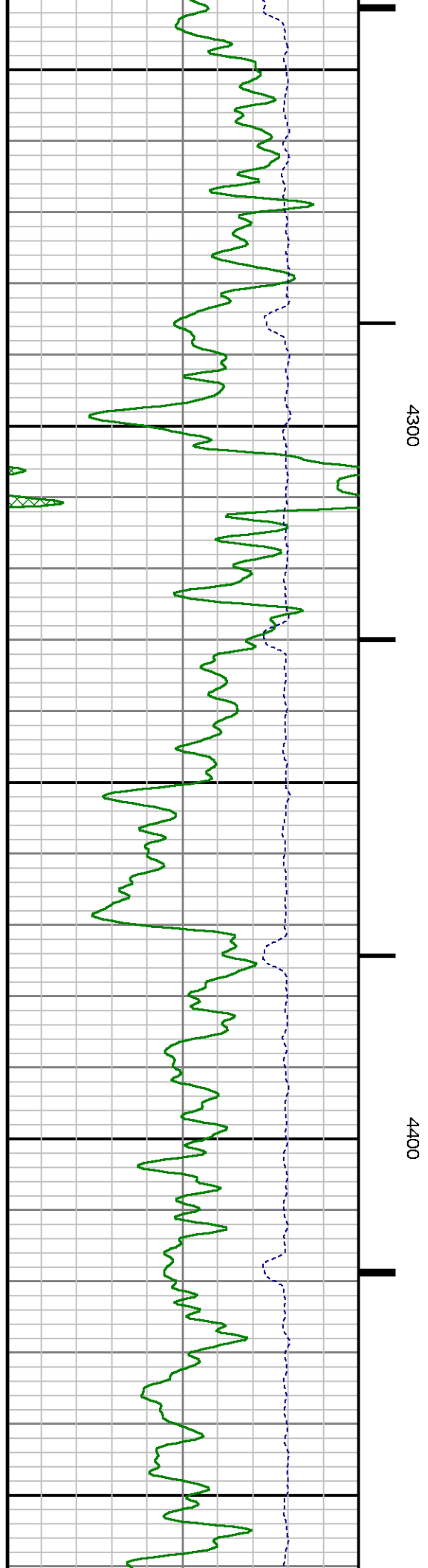
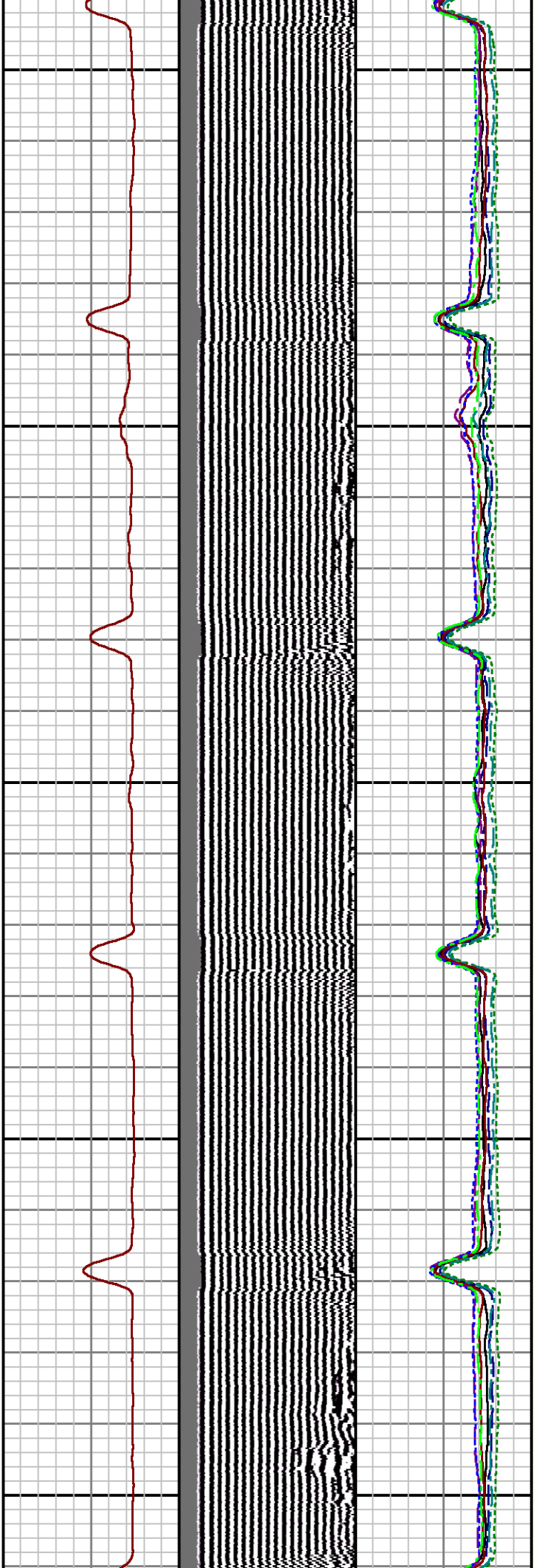


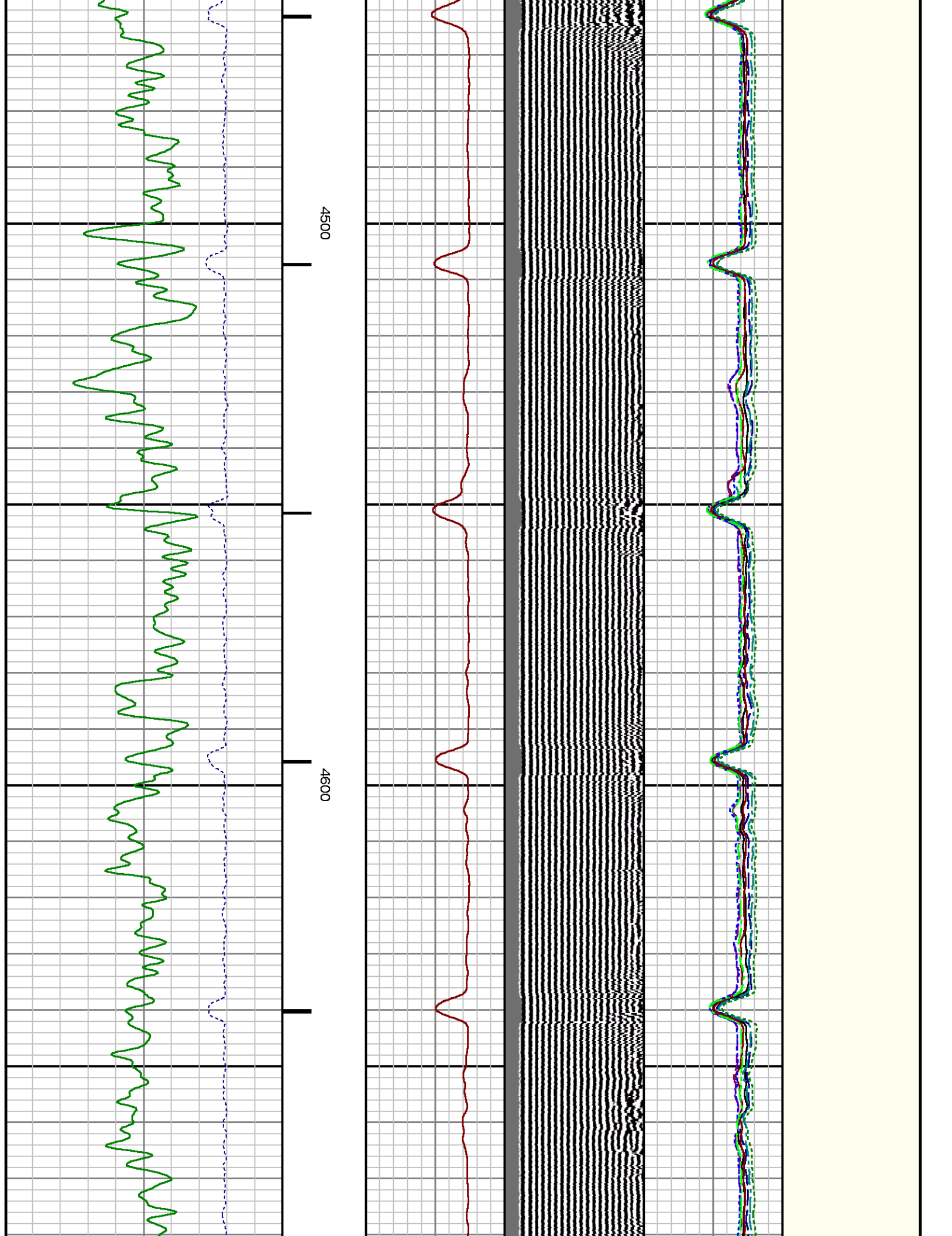


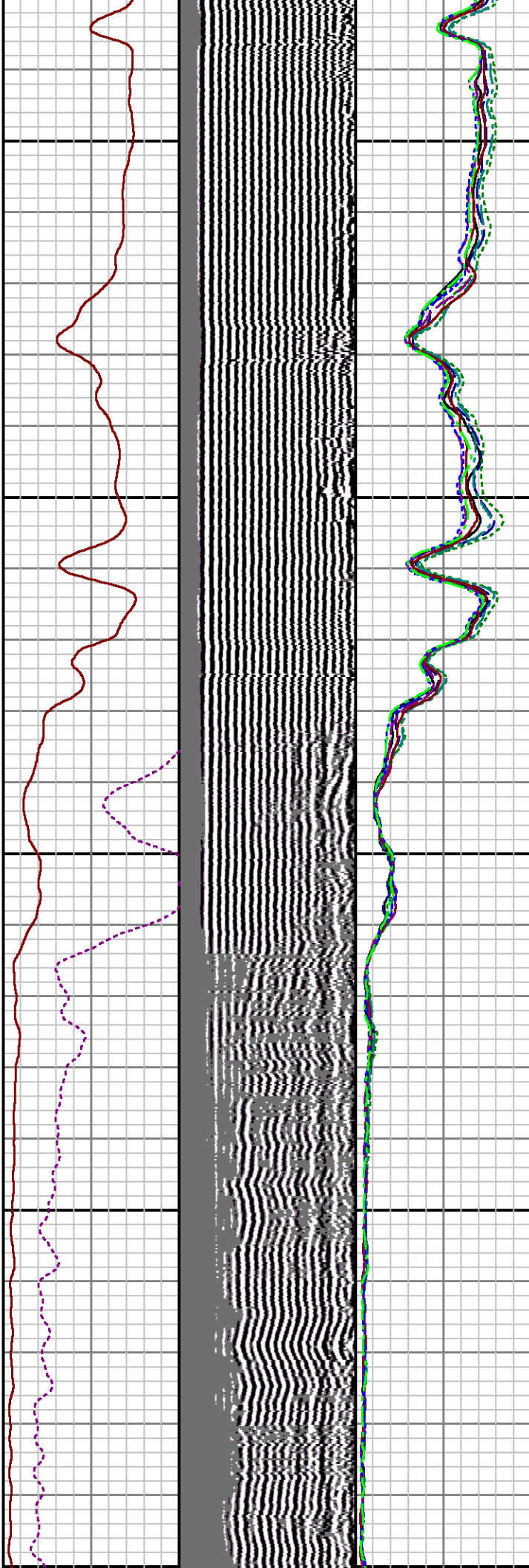
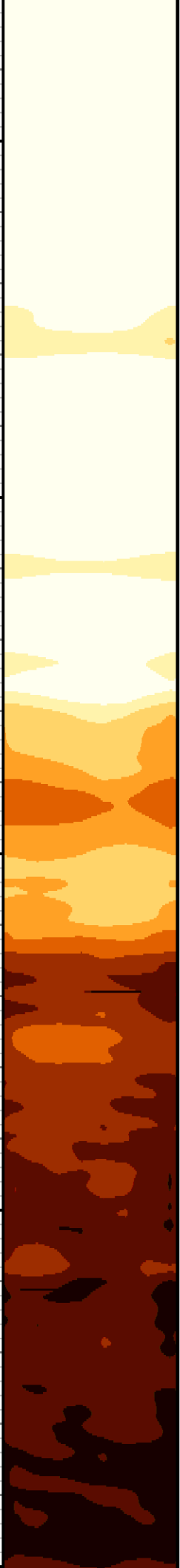








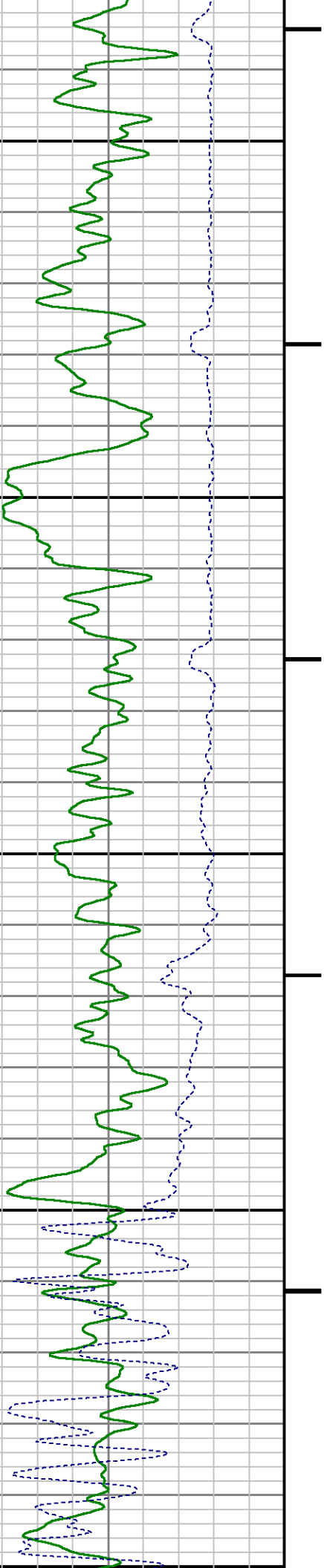


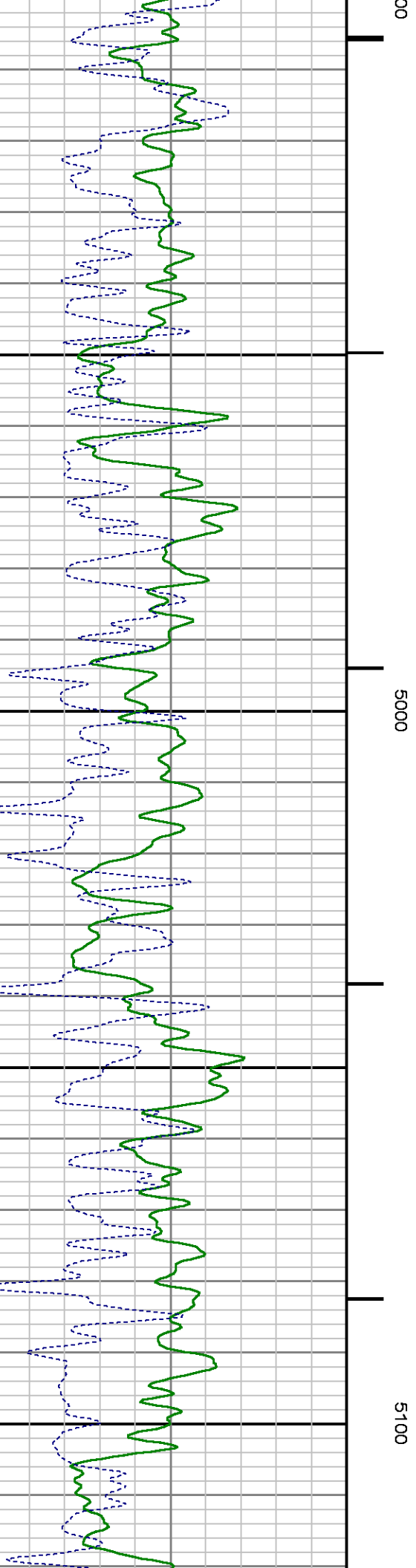
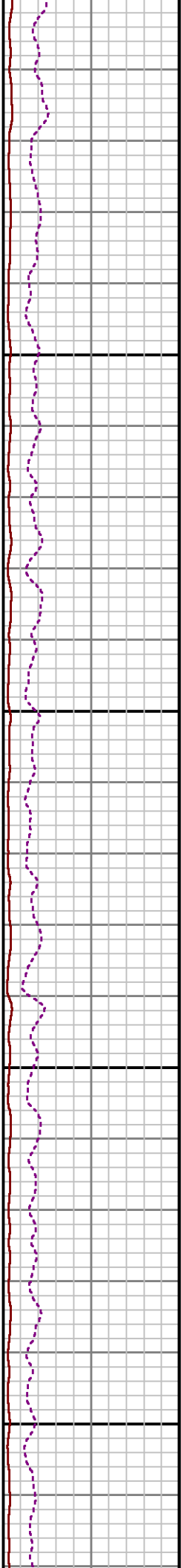
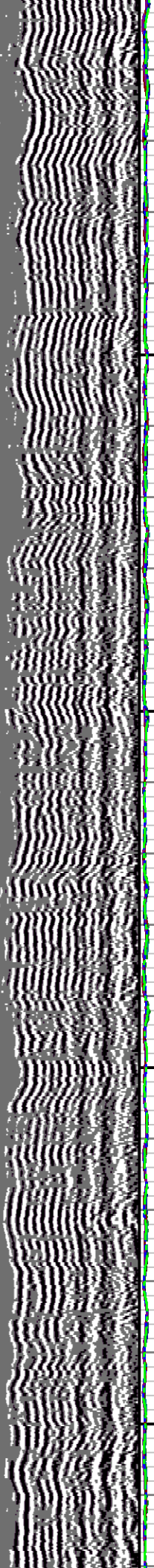


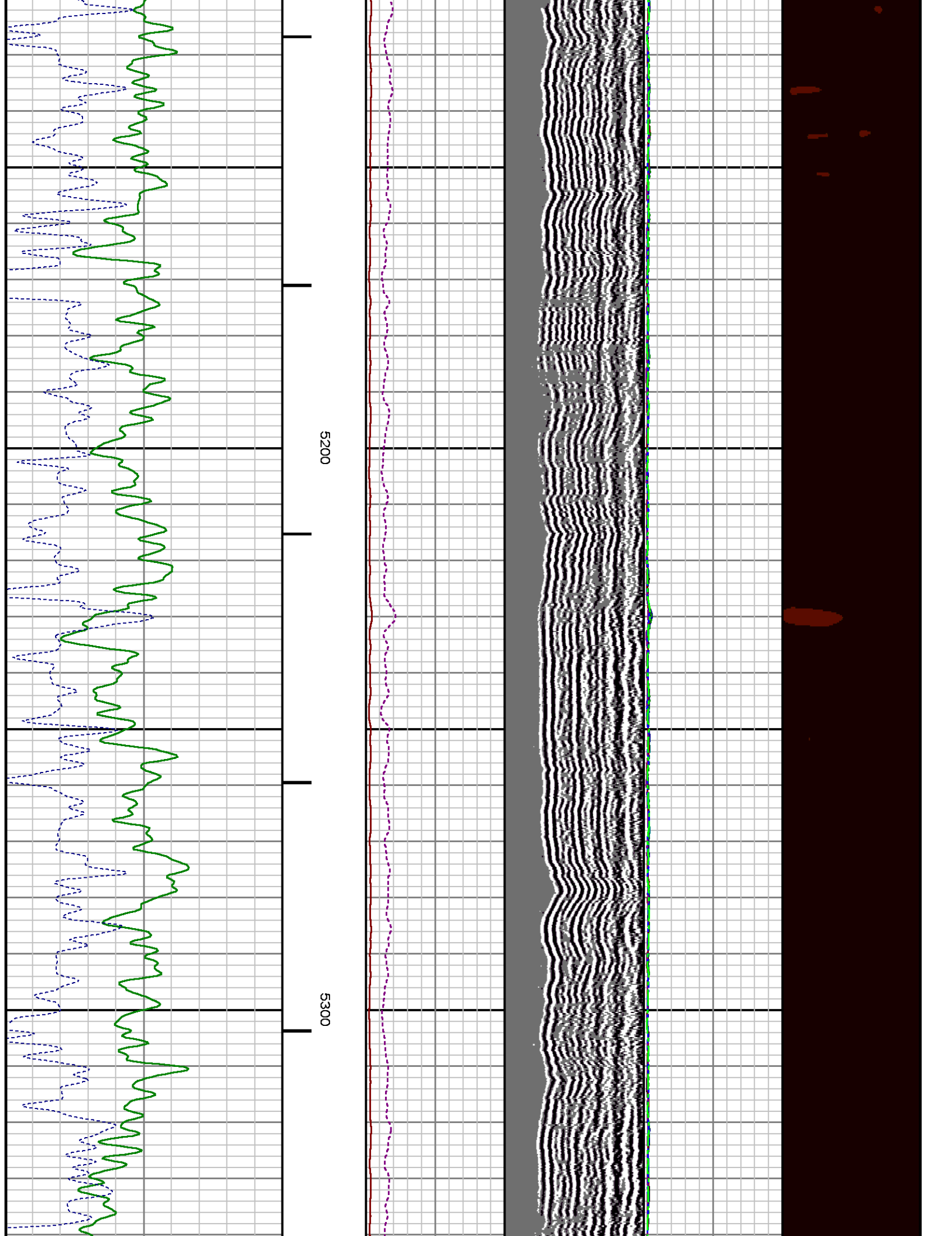
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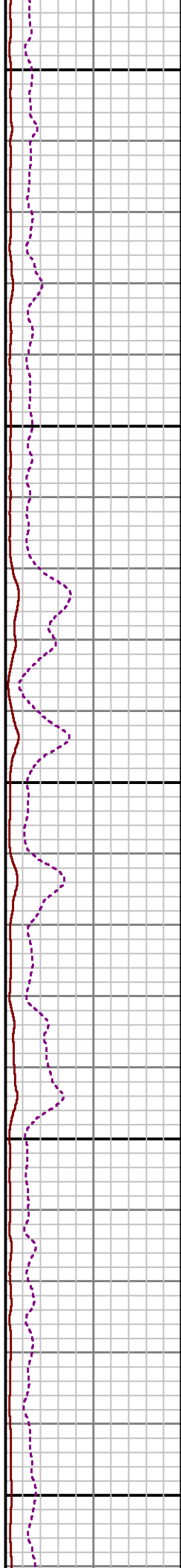
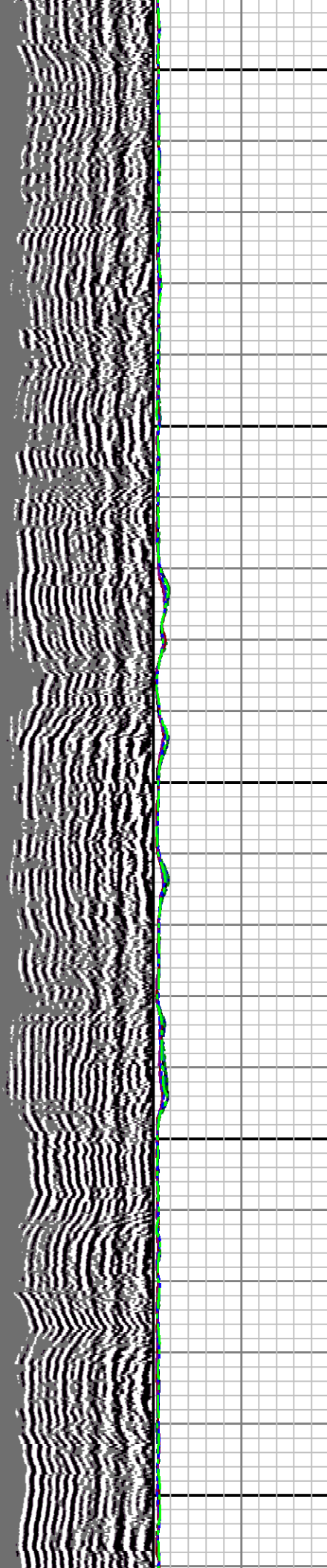
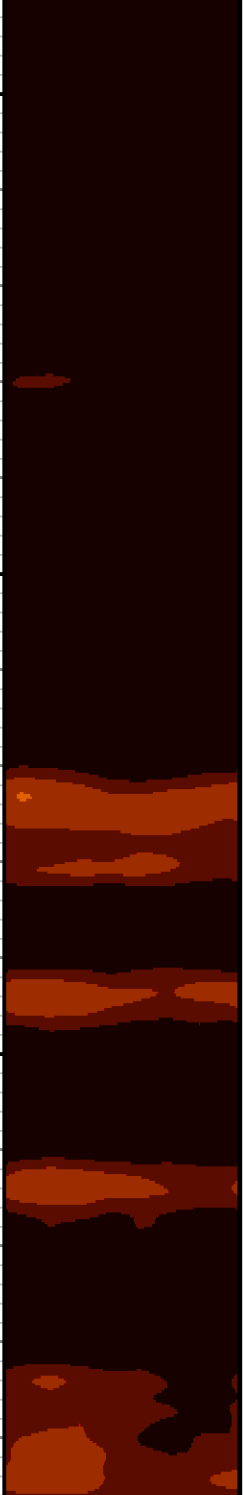
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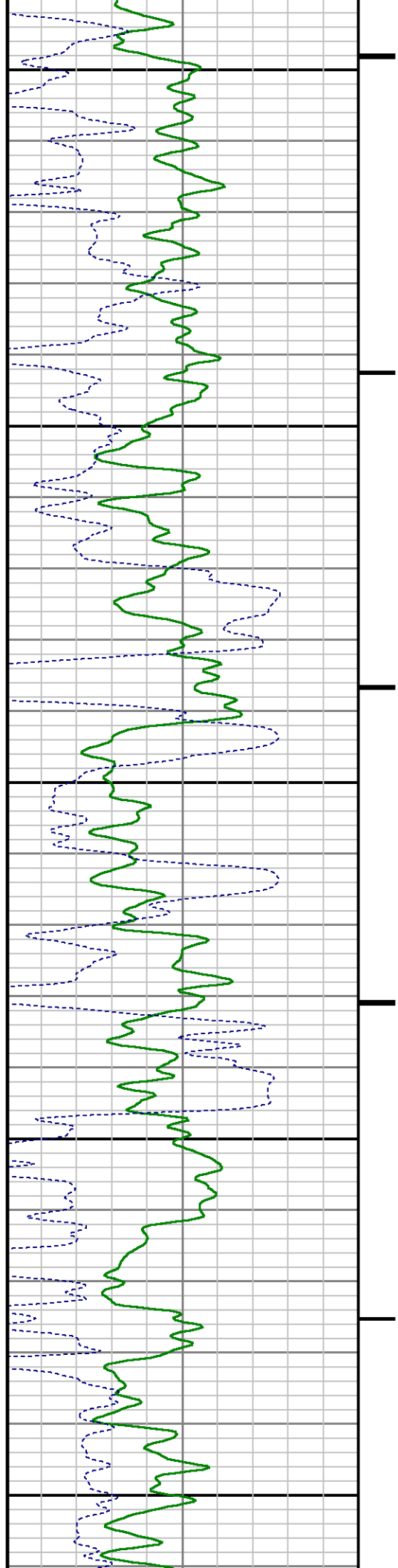




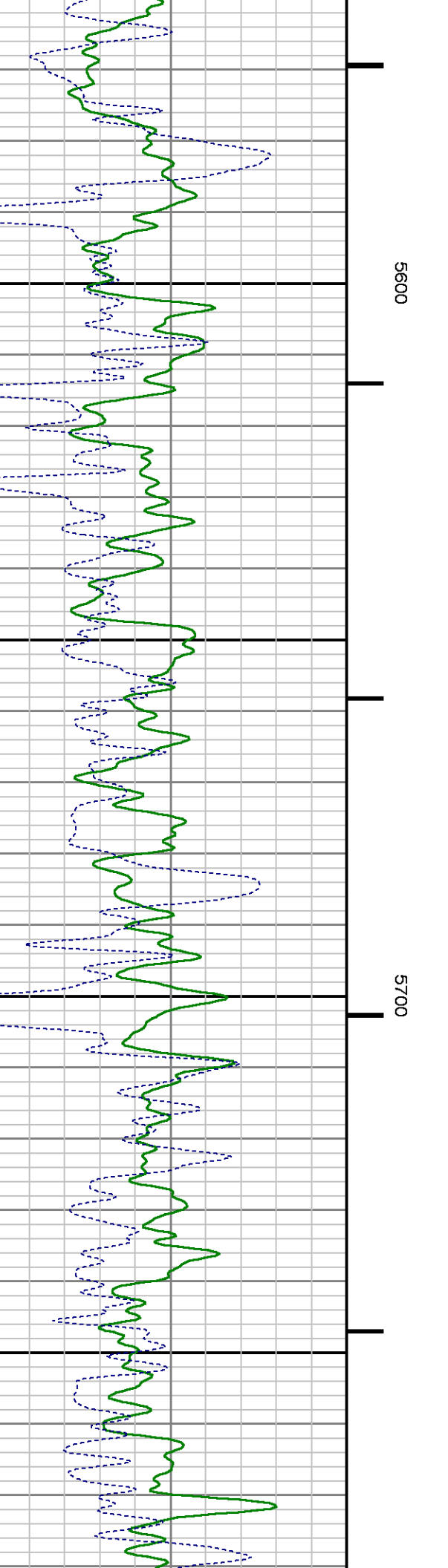
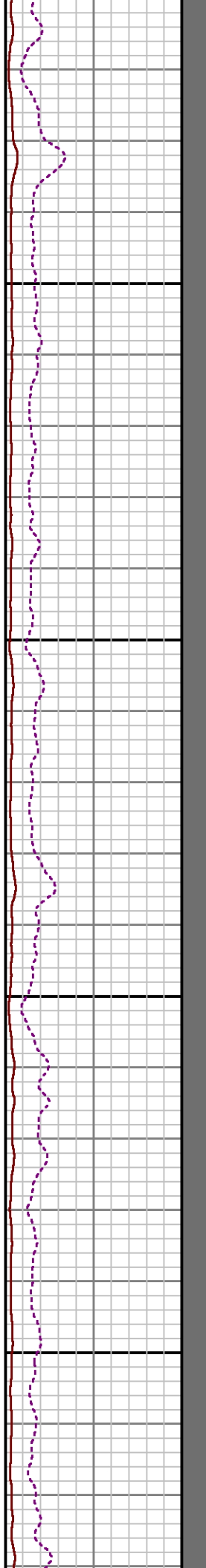
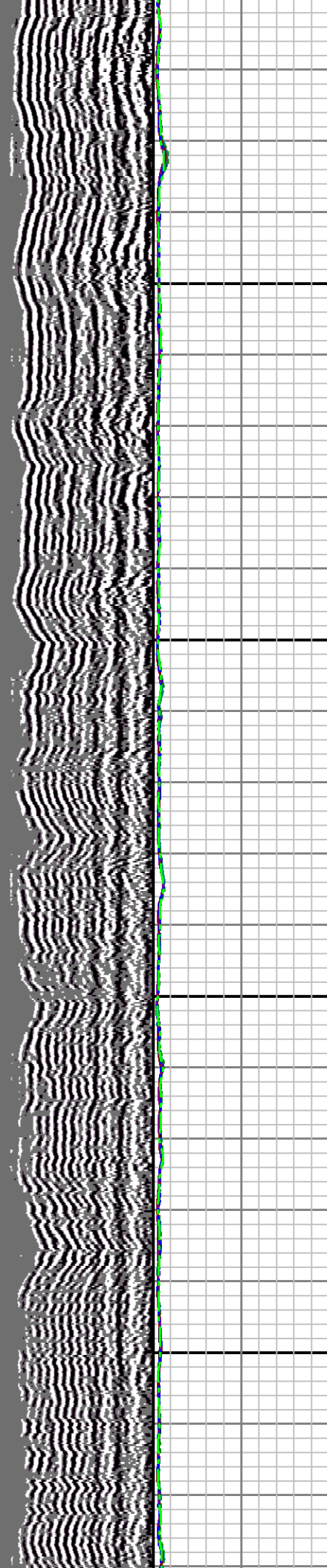


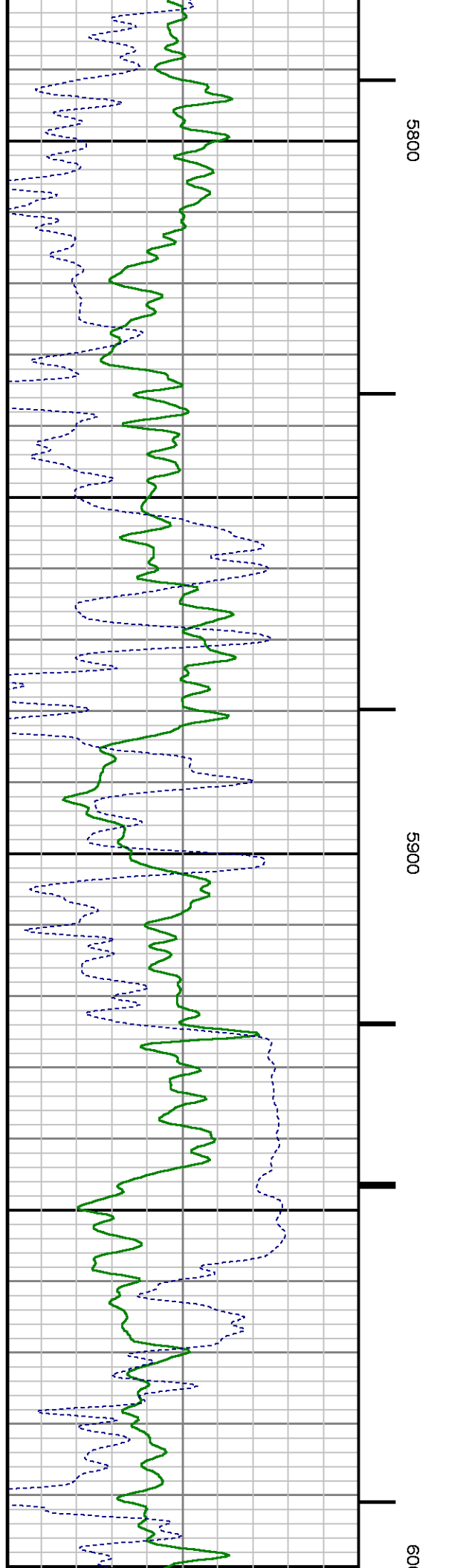
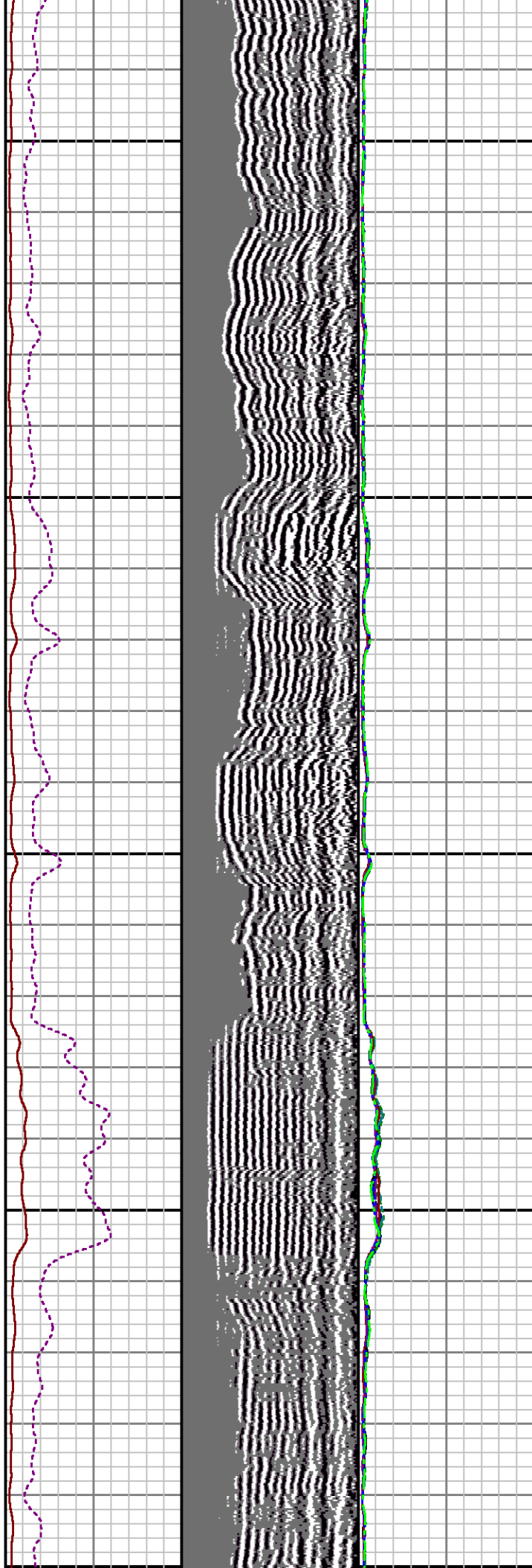
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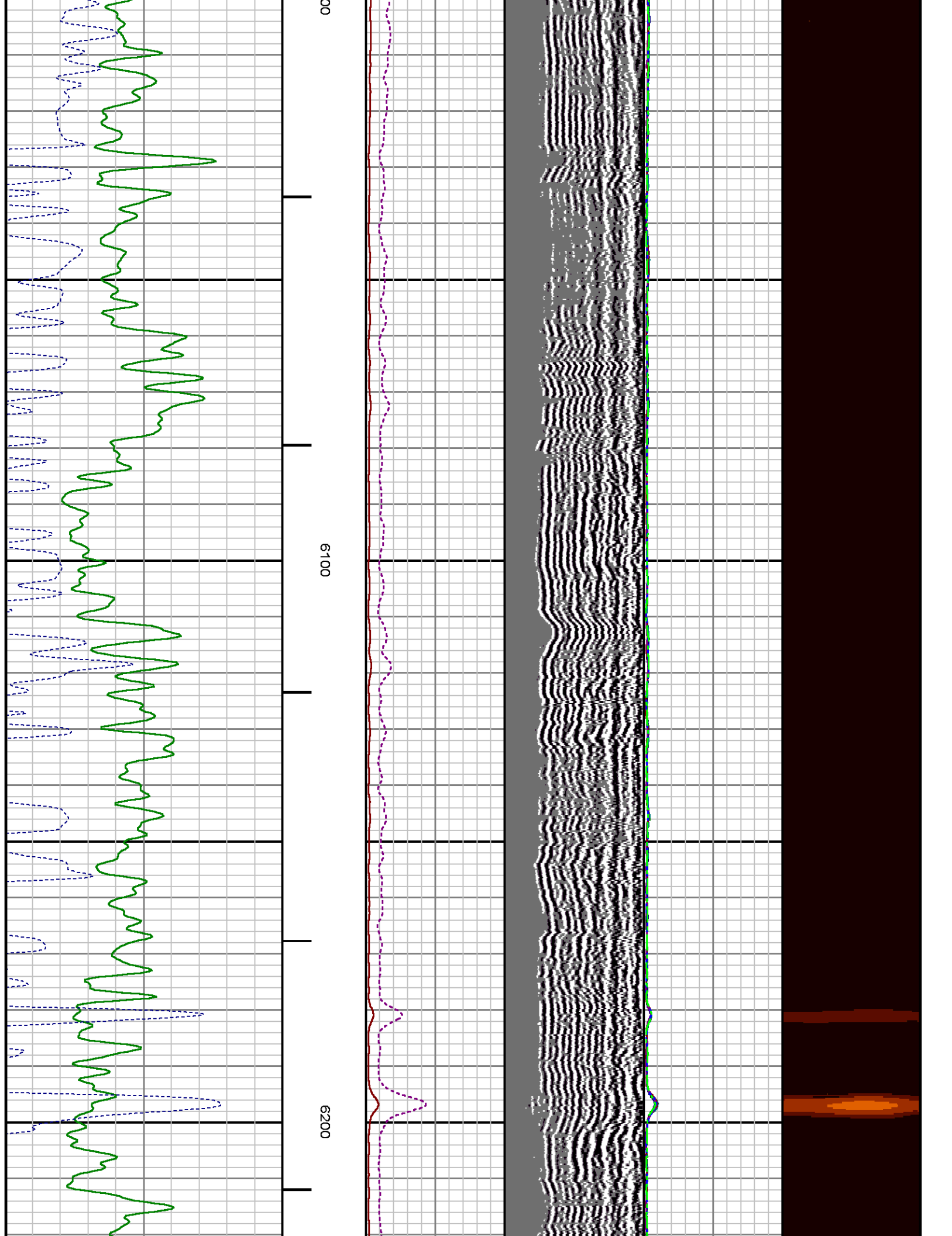
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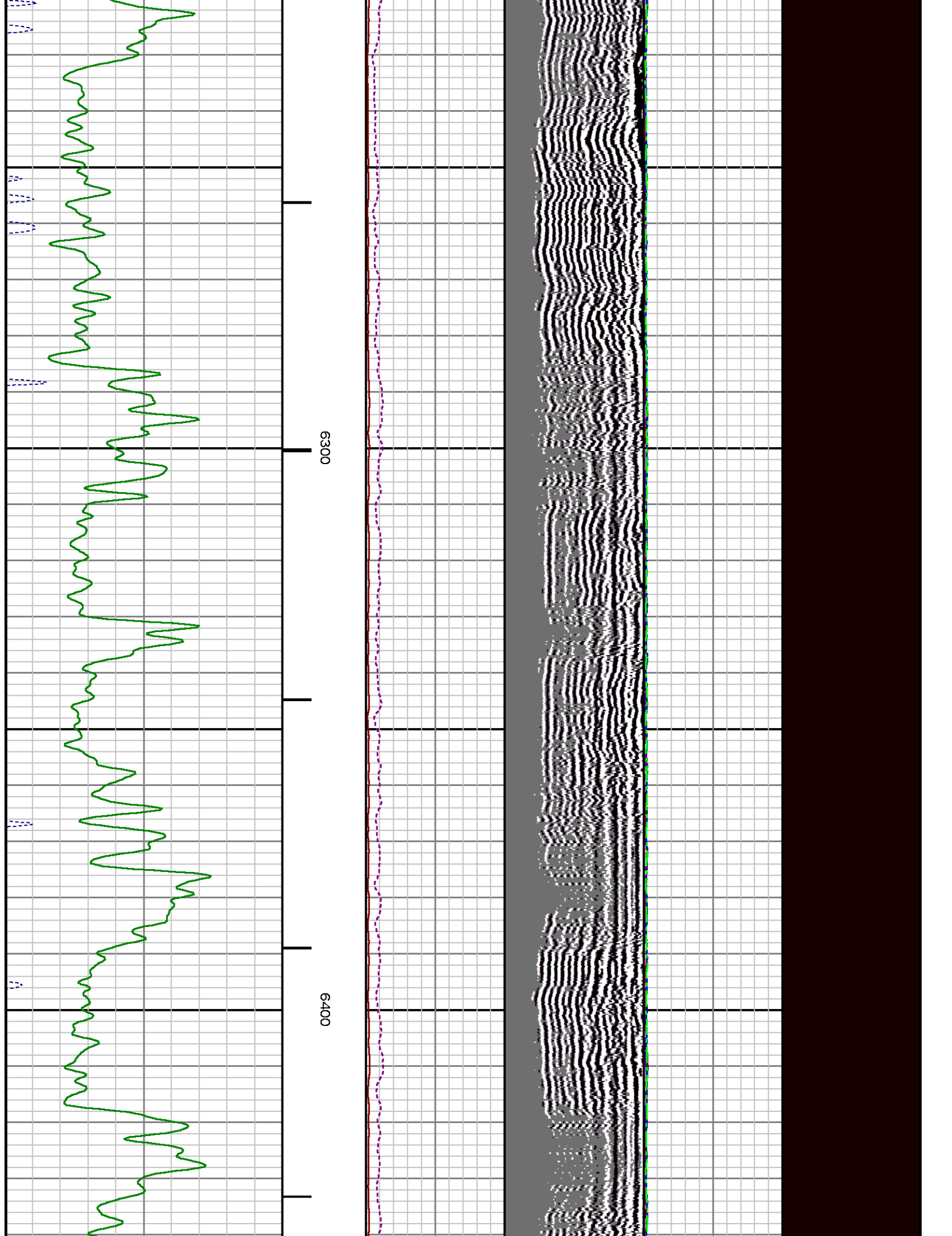


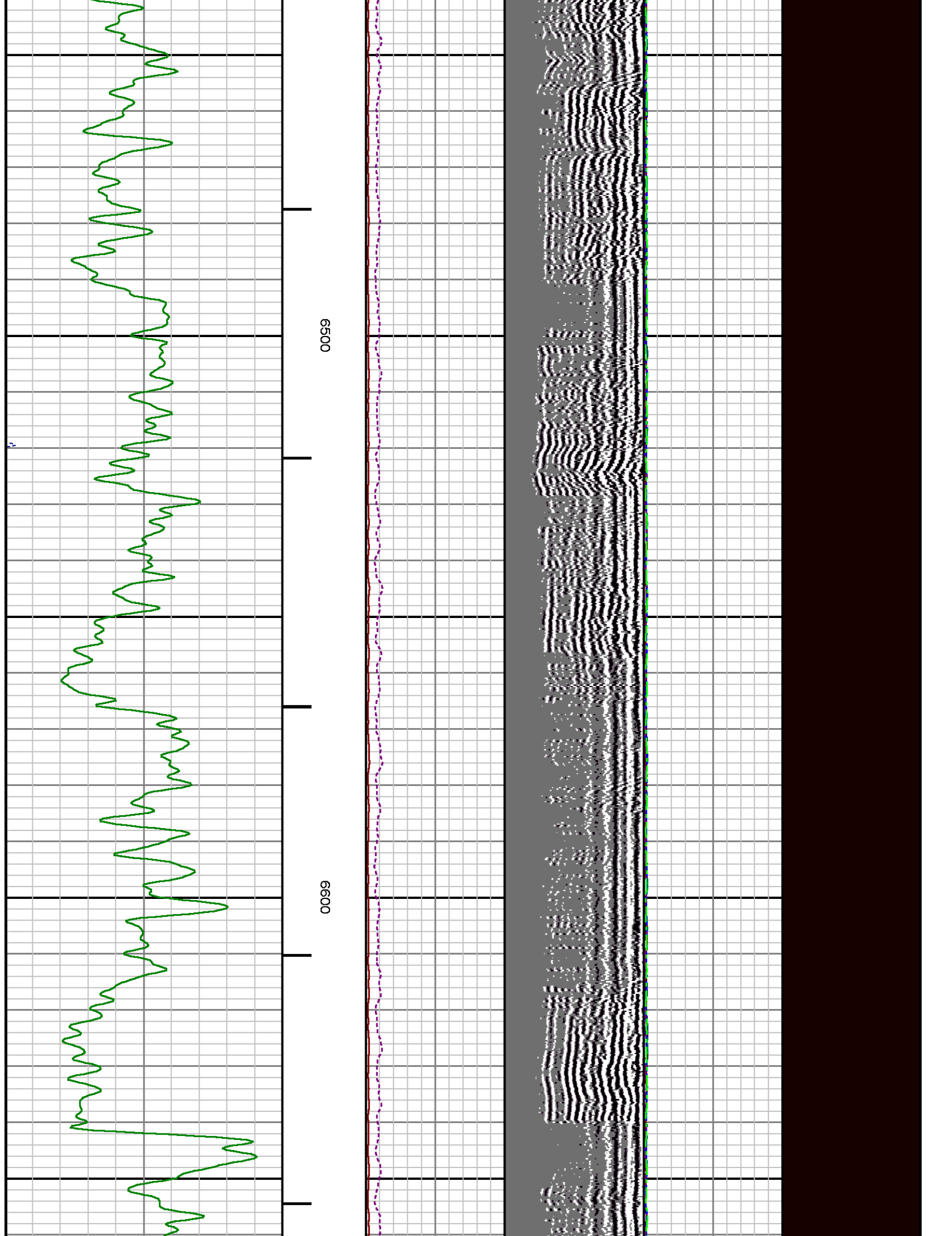




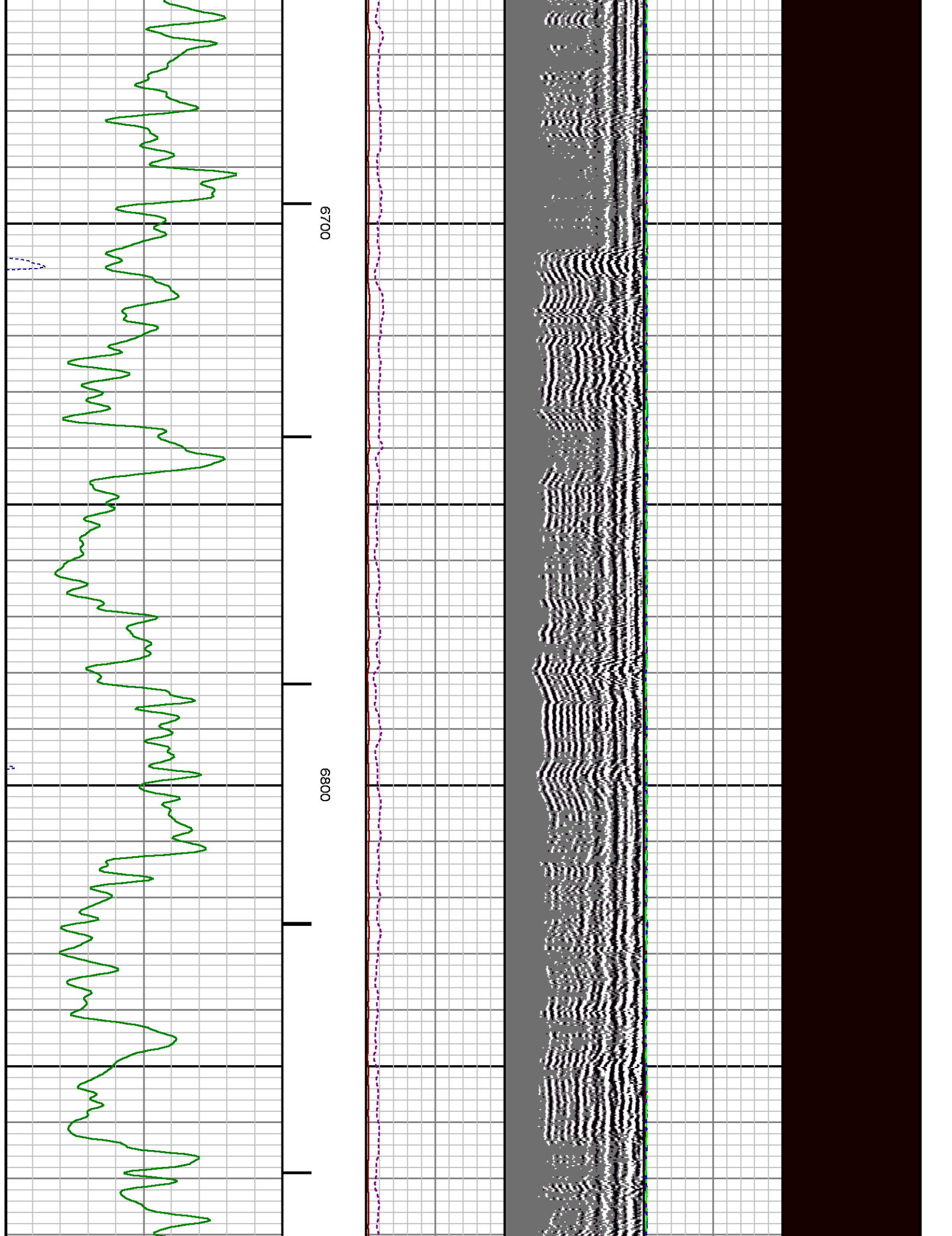




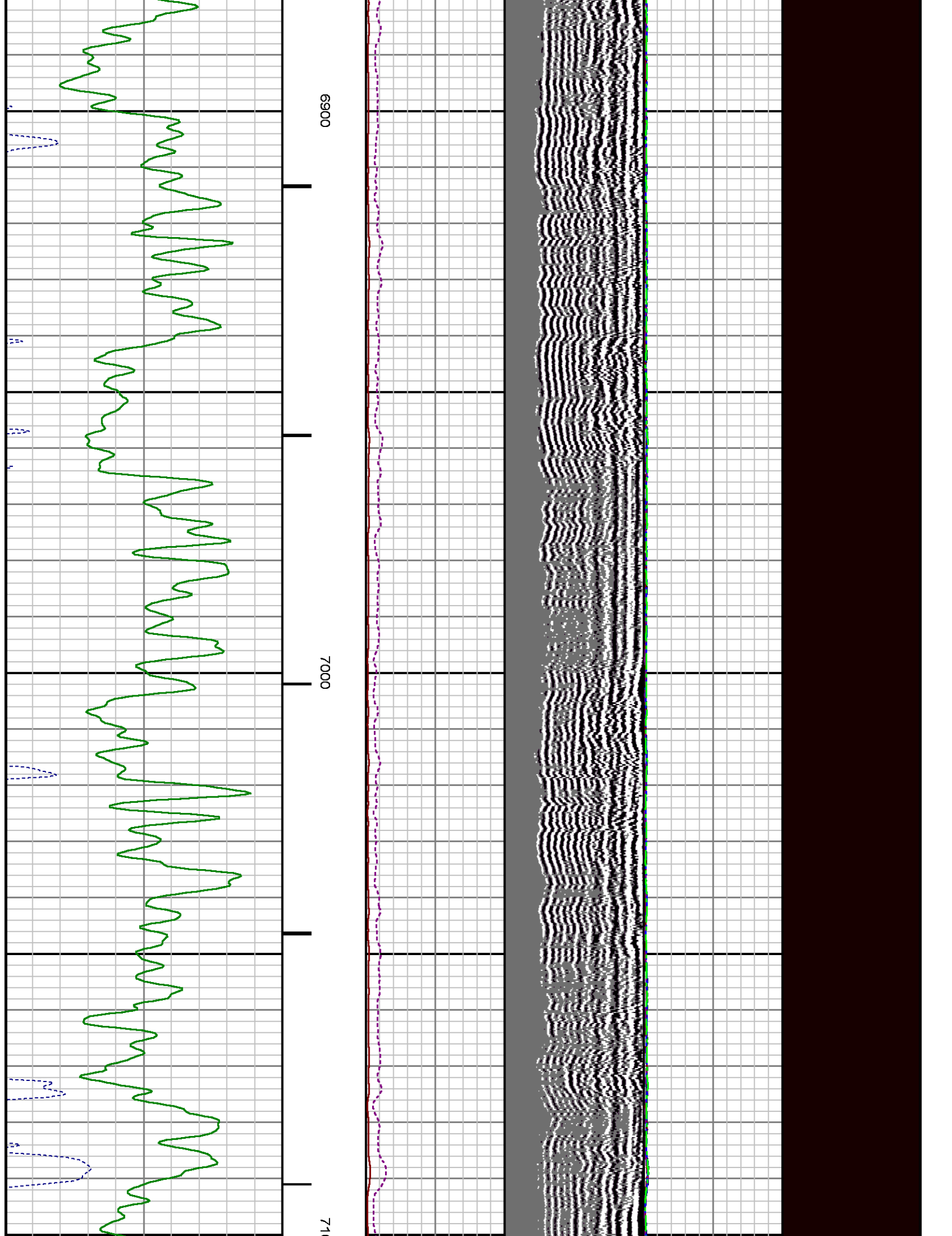


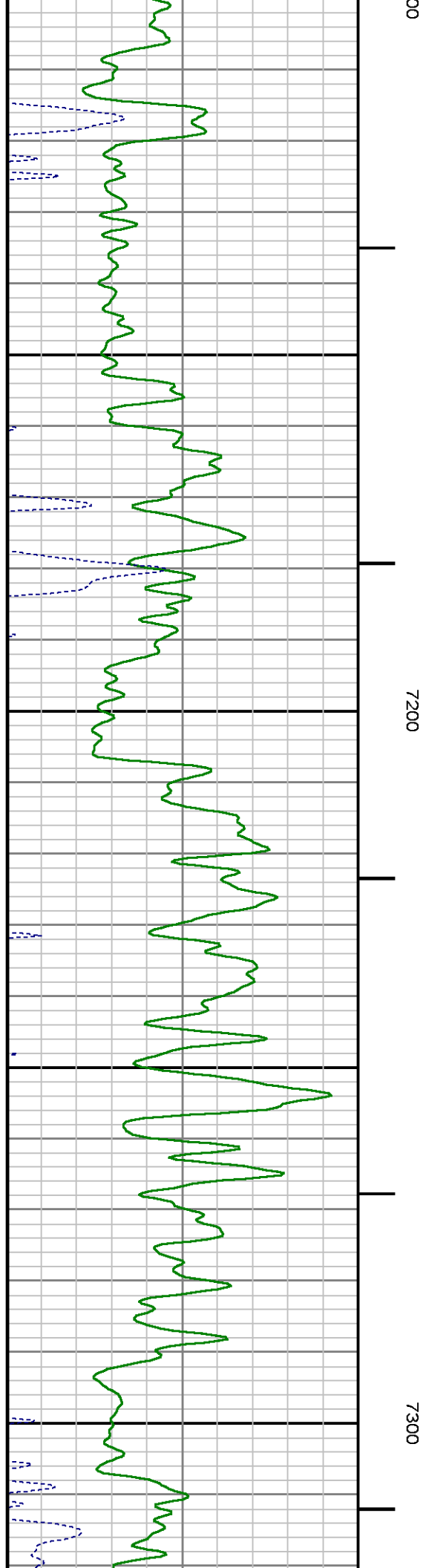
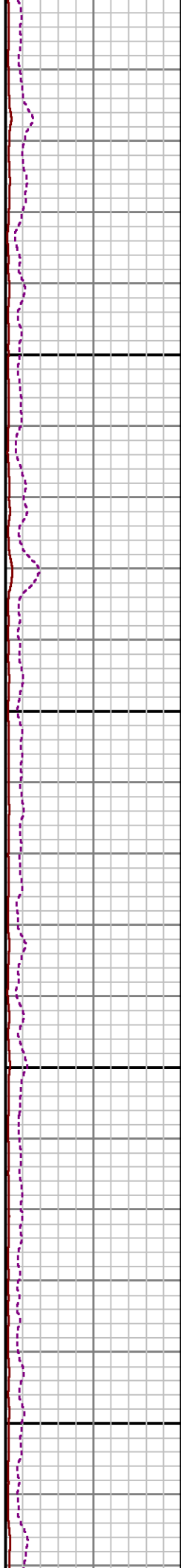
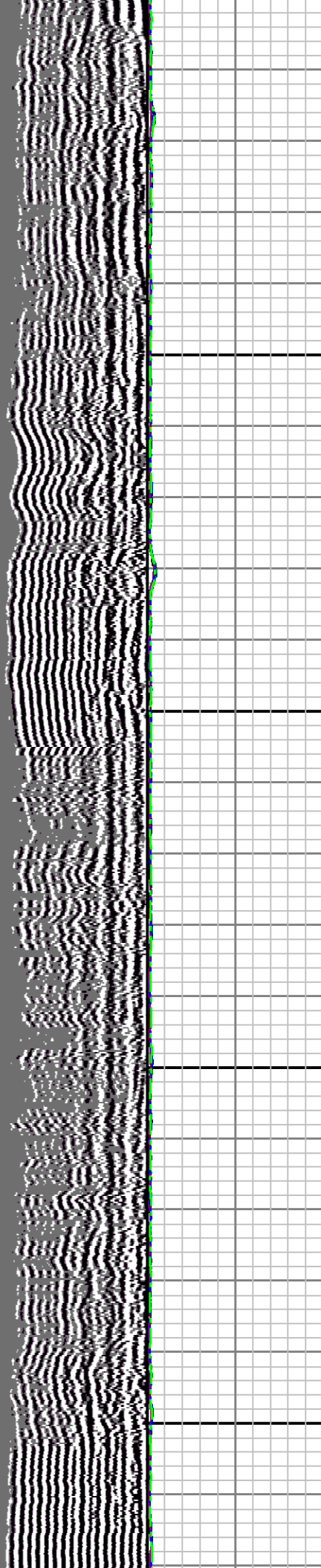


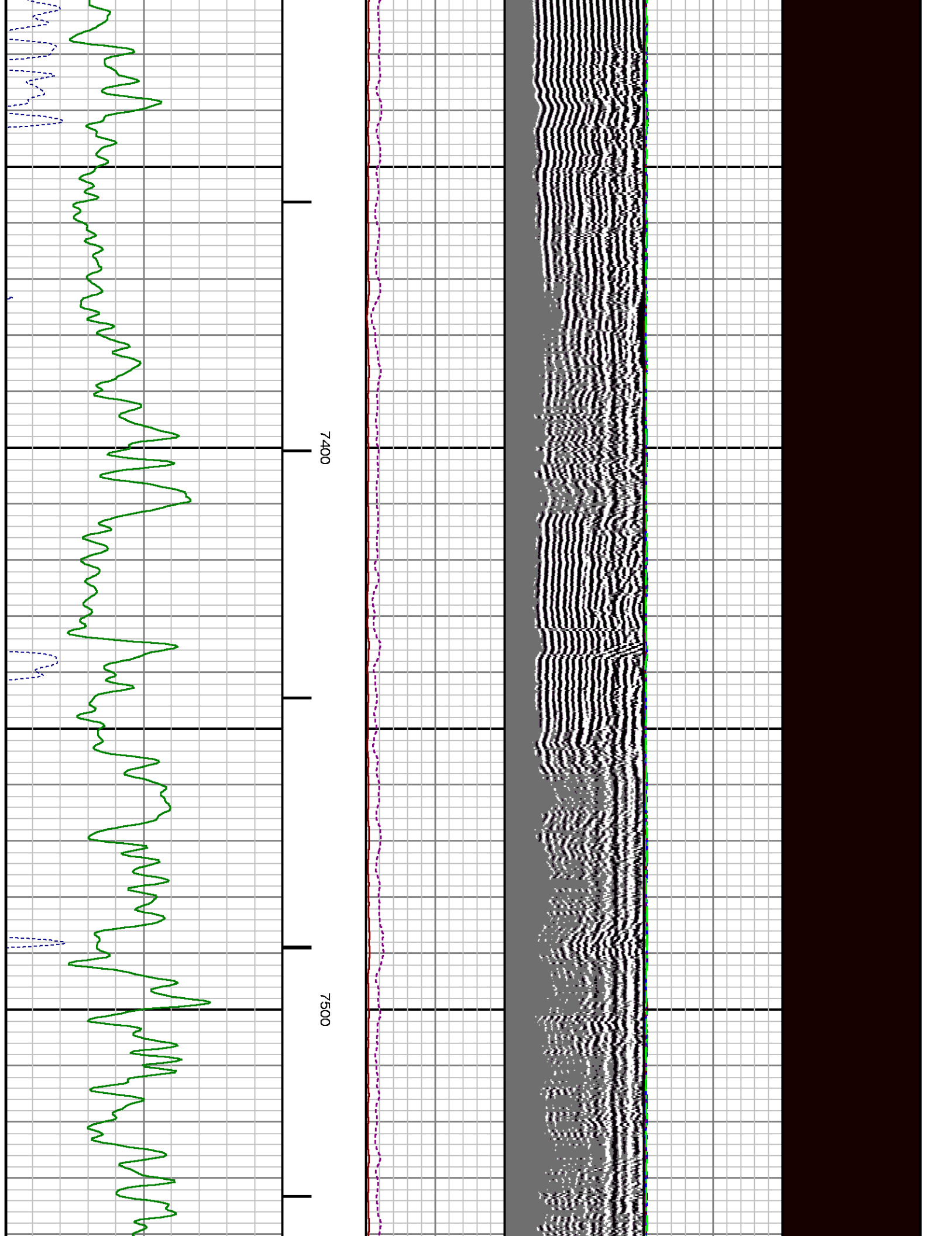


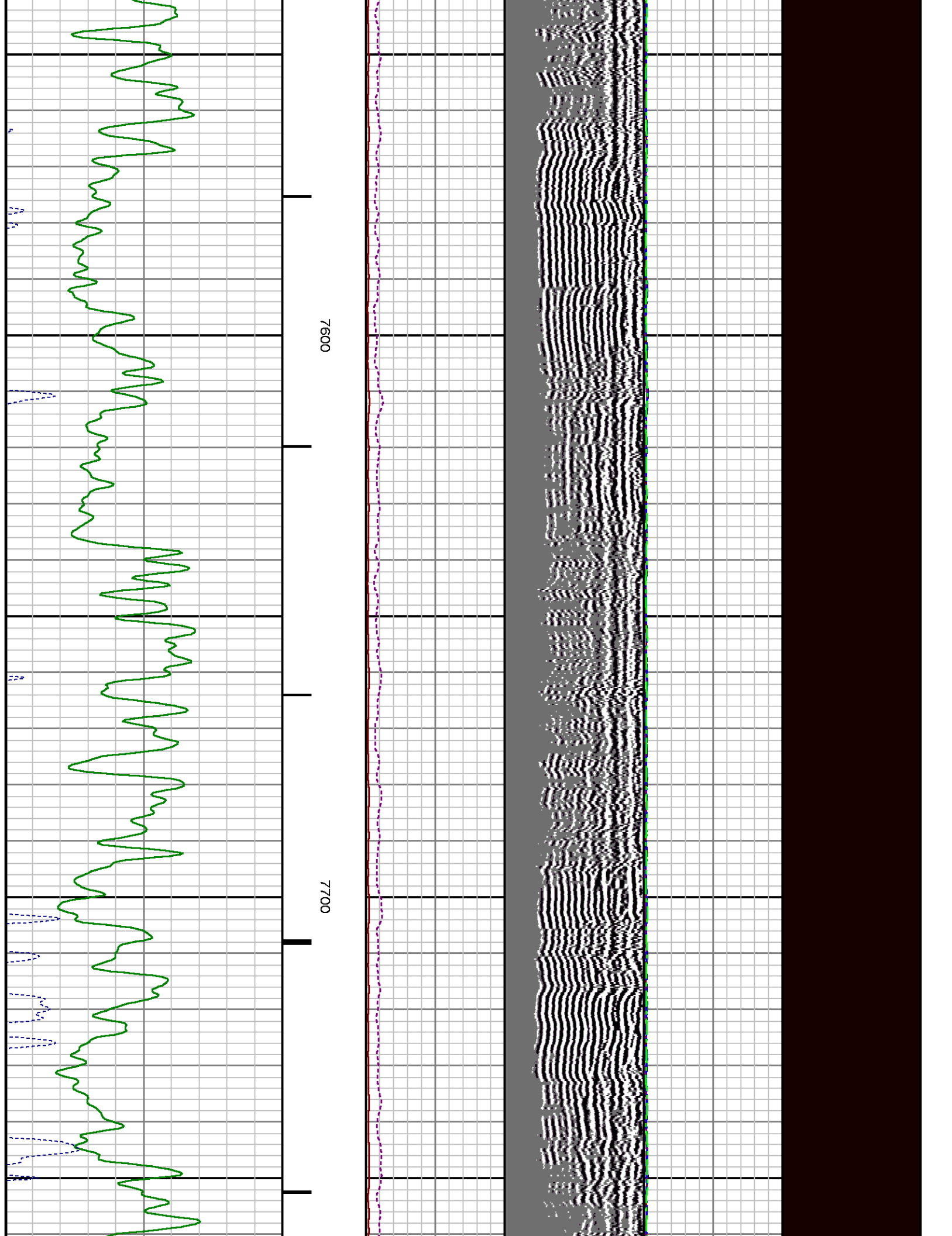


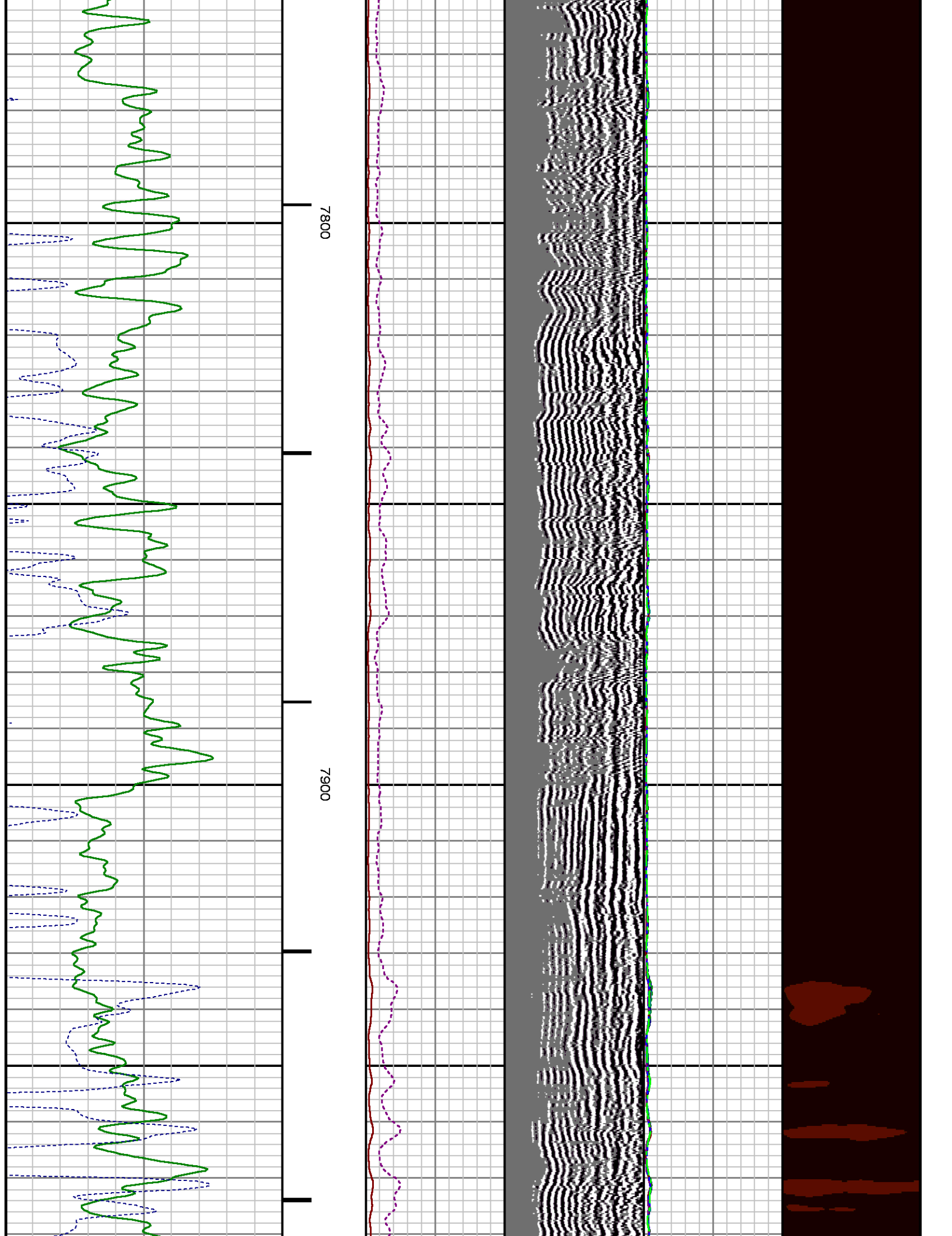




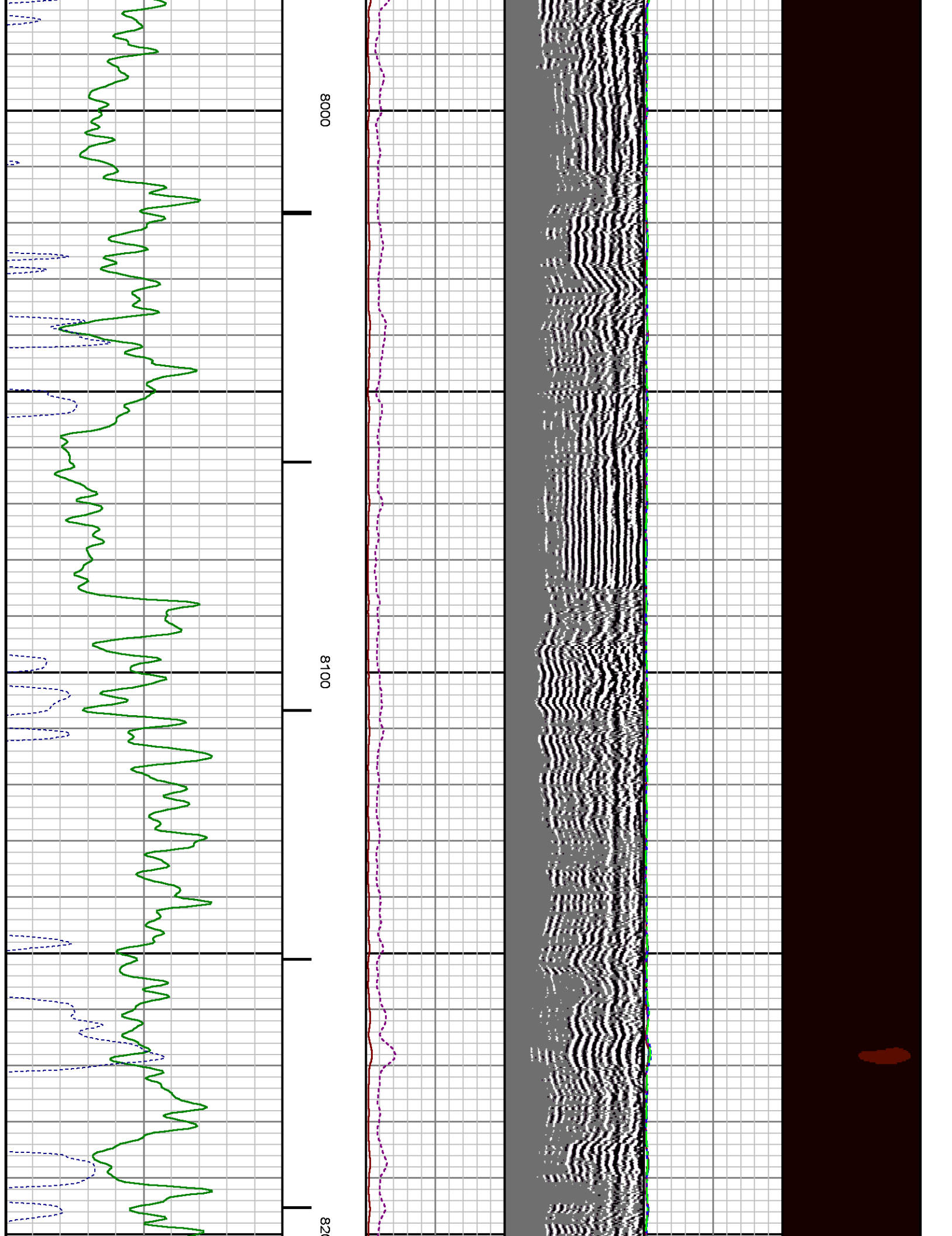




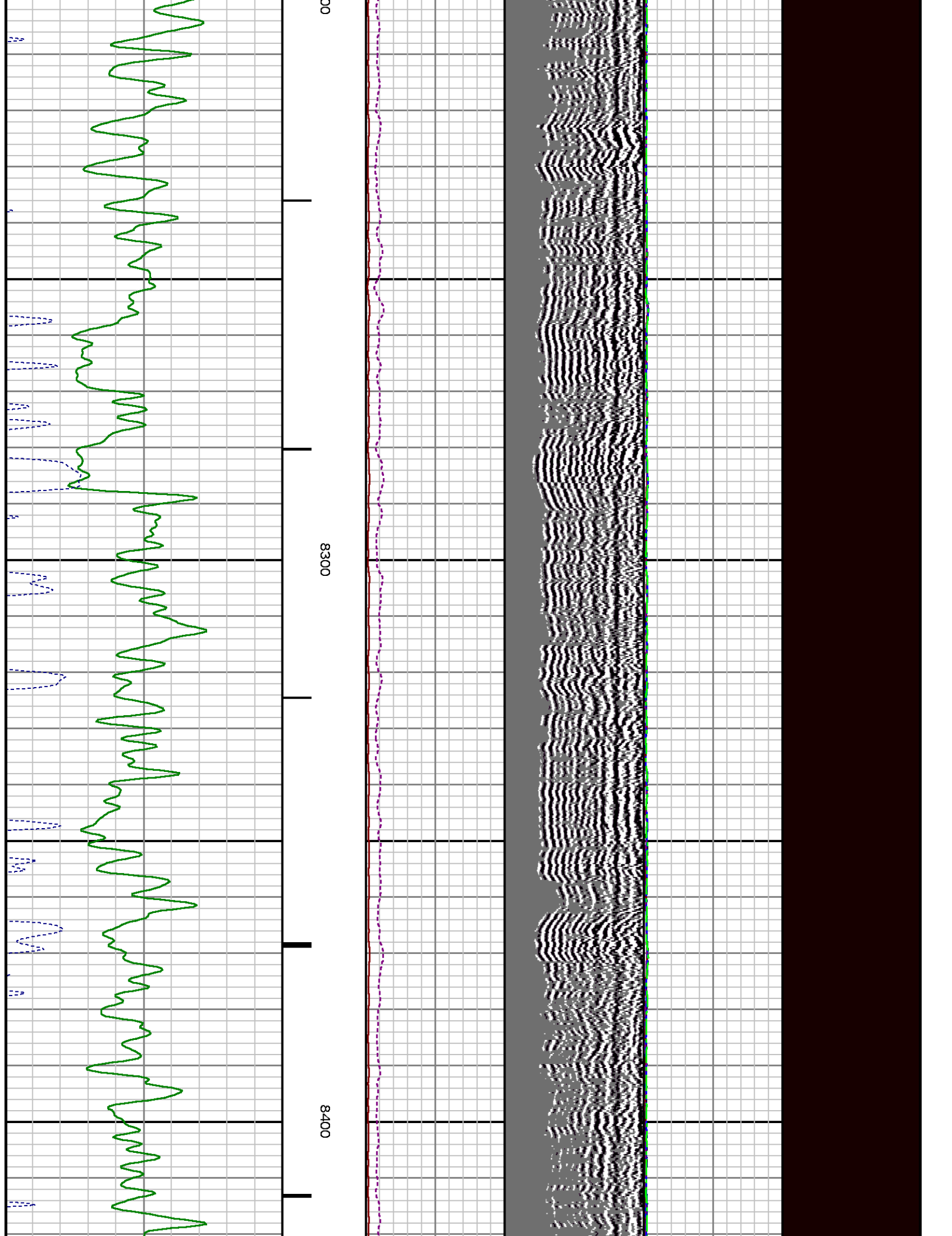


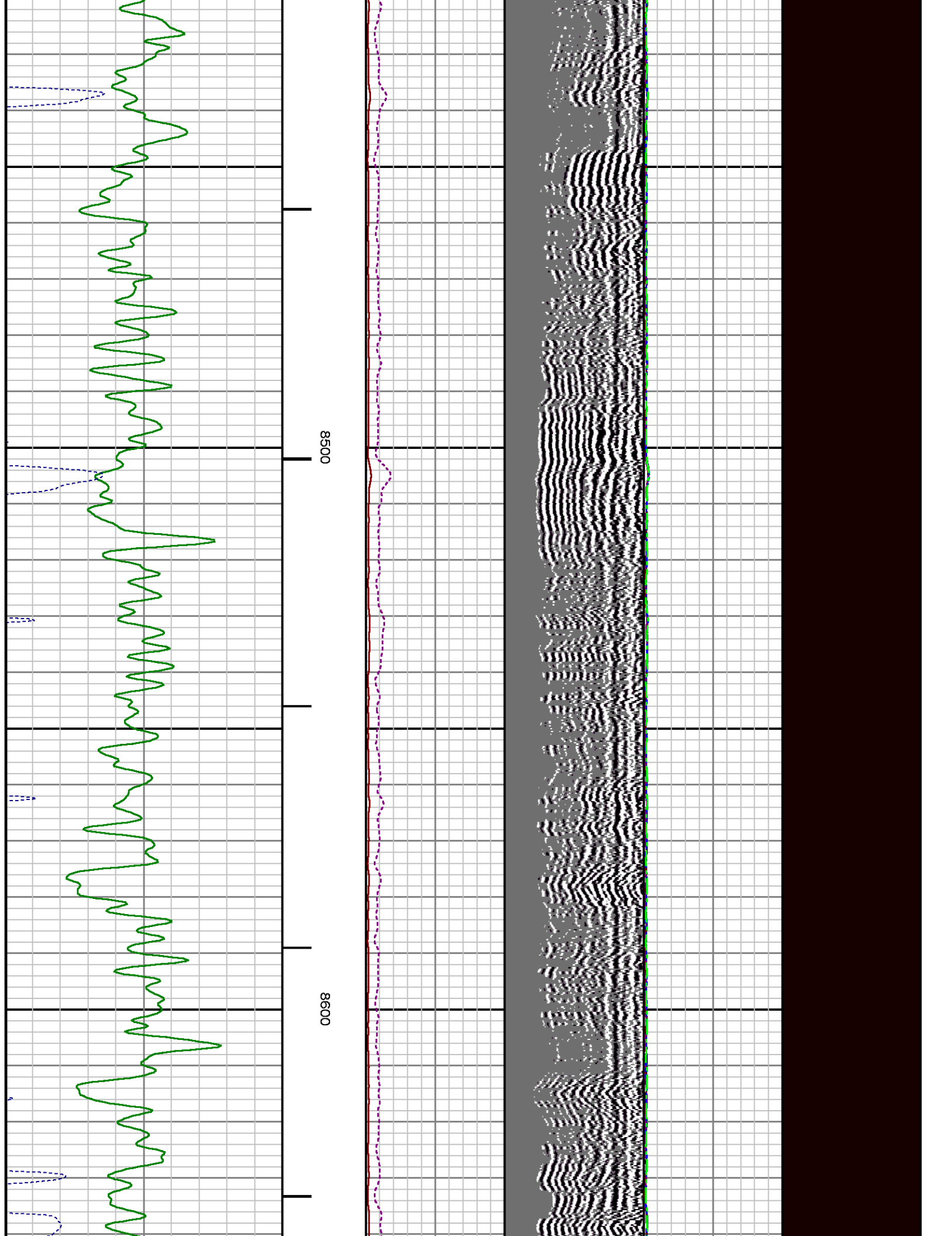


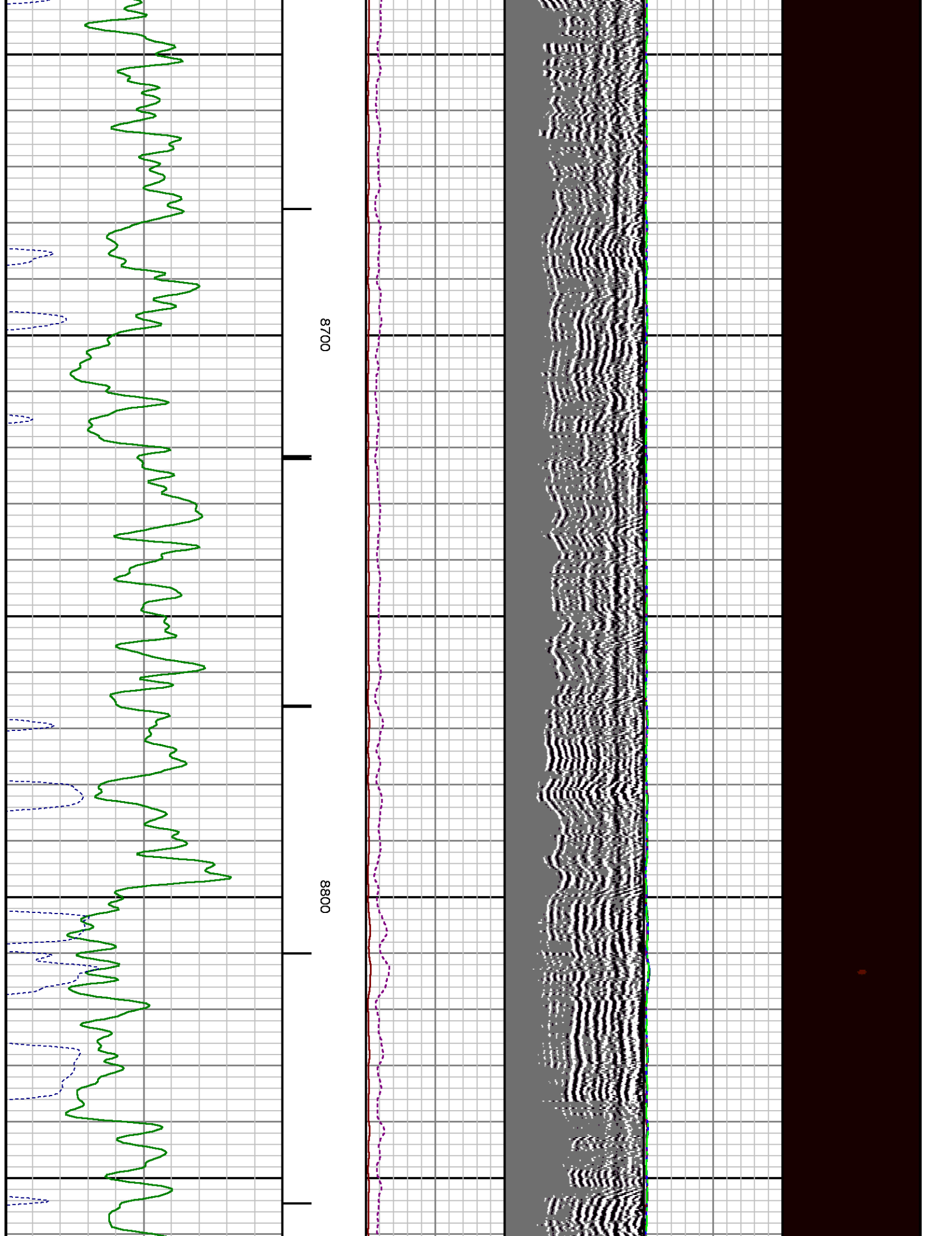


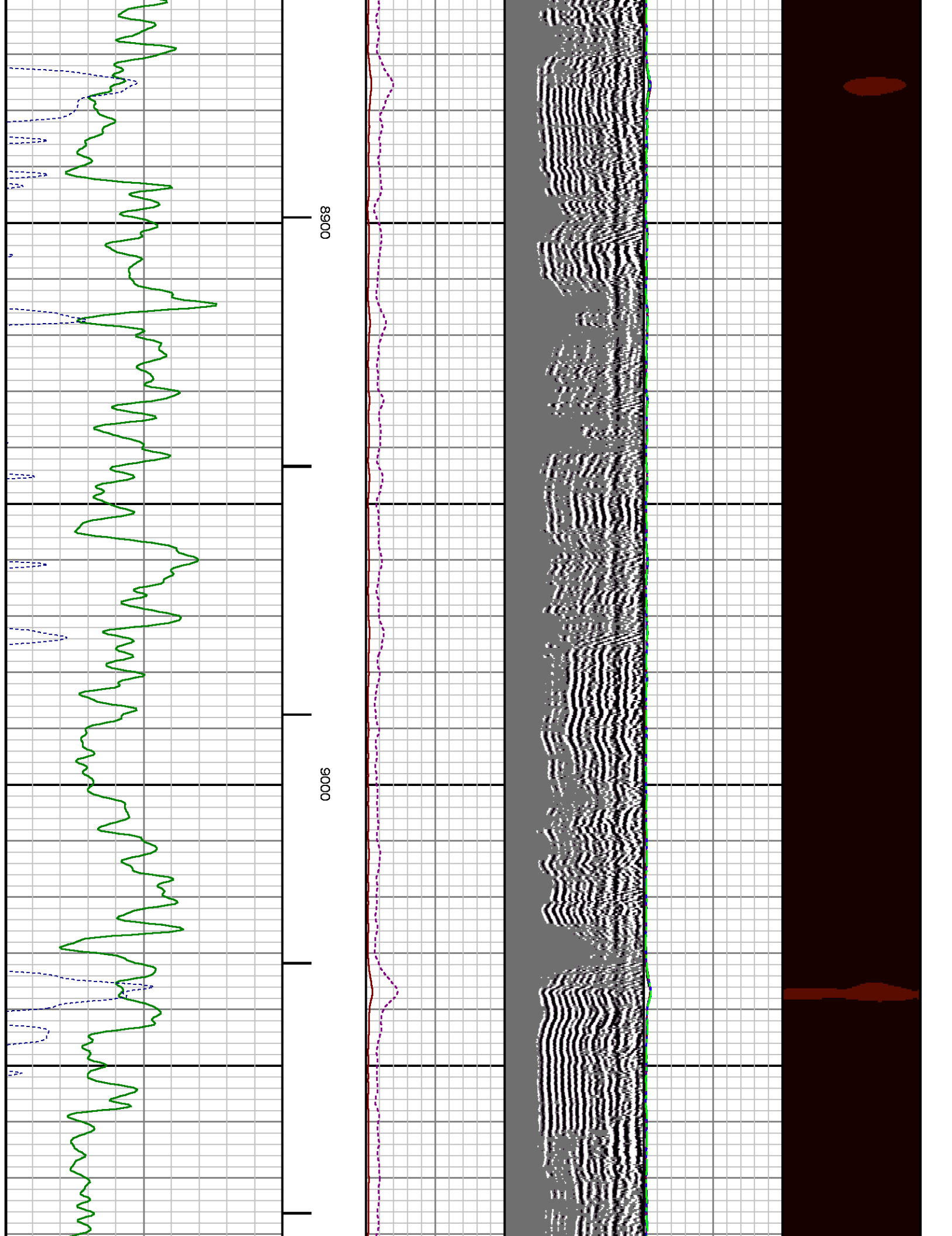


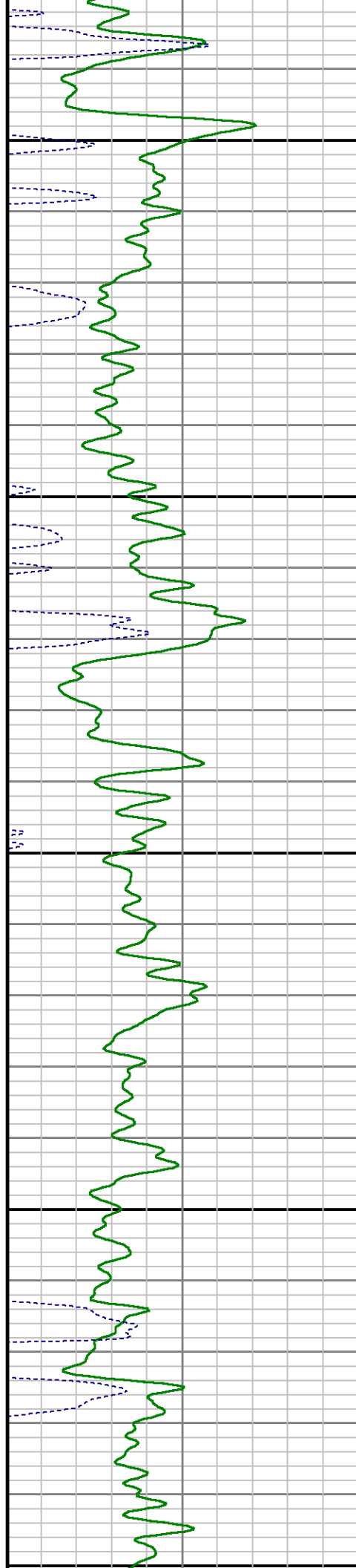
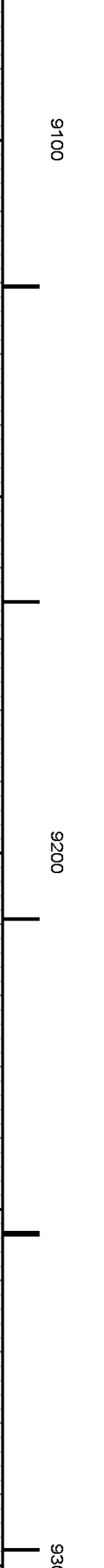
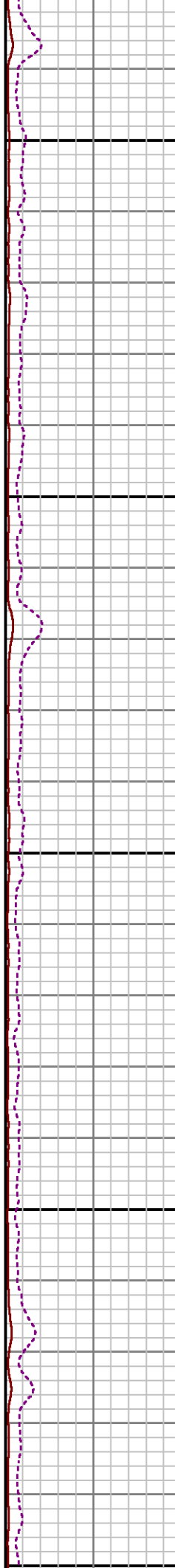
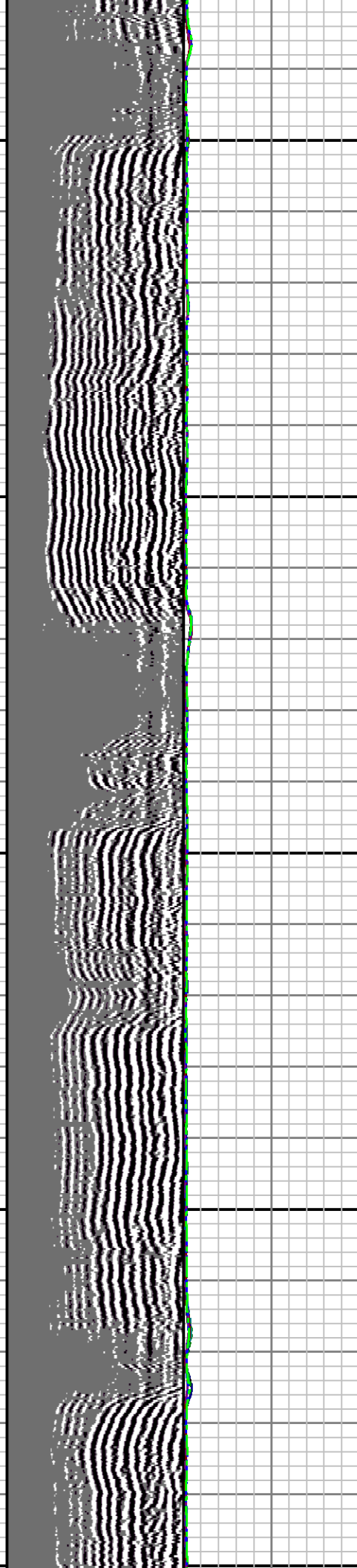




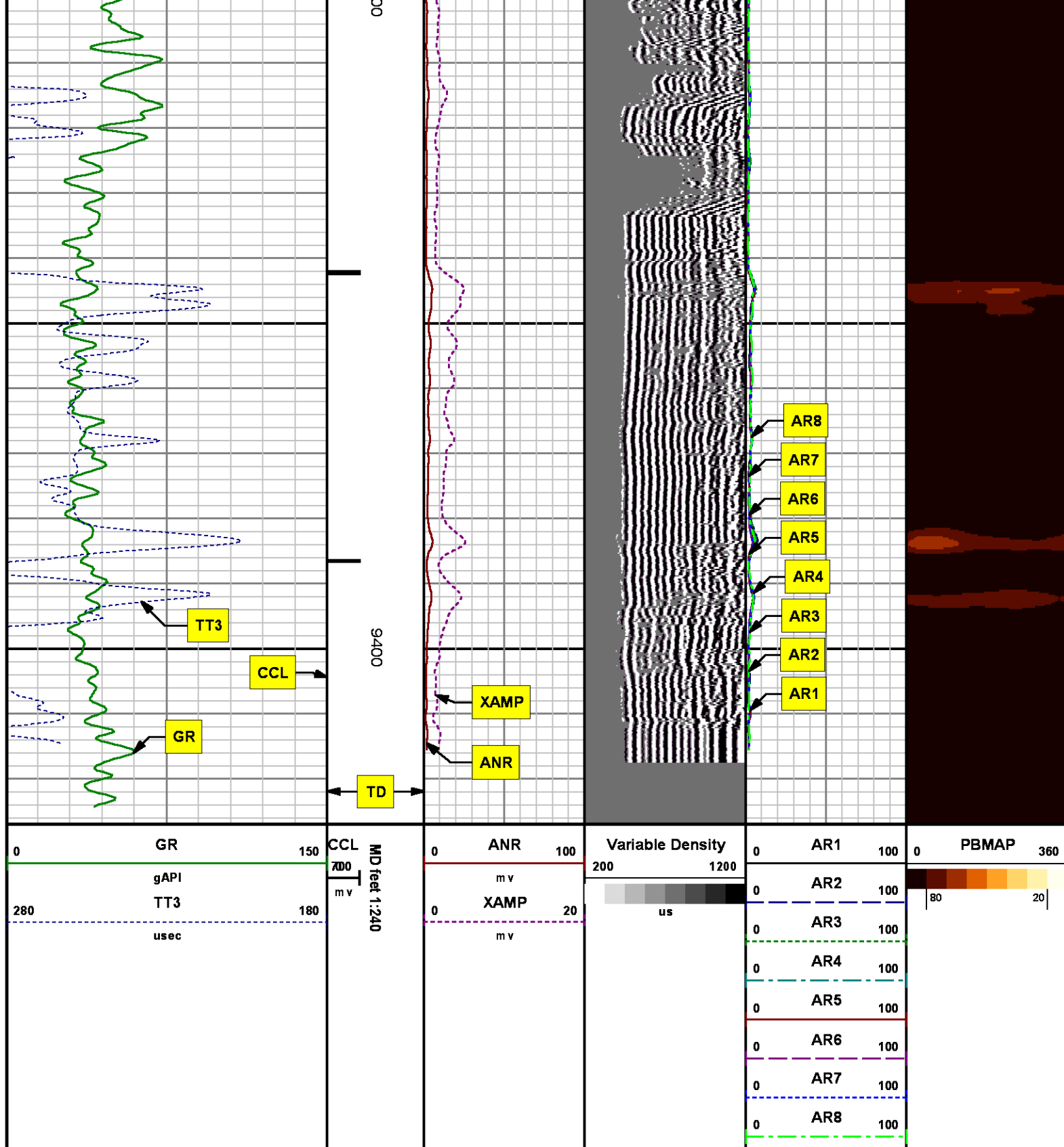












REPEAT SECTION  
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	9096.540	9426.790
RAL	Amp Gate Start Near	195.000	usec	9096.540	9426.790
RAL	Amp Gate Start Radial	195.000	usec	9096.540	9426.790
RAL	Amp Gate Width Far	25.000	usec	9096.540	9426.790
RAL	Amp Gate Width Near	25.000	usec	9096.540	9426.790
RAL	Amp Gate Width Radial	25.000	usec	9096.540	9426.790
RAL	casing od	4.500	inches	9096.540	9426.790
RAL	casing wt	11.600	lbm/ft	9096.540	9426.790
RAL	FB Start Far	291.900	usec	9096.540	9426.790
RAL	FB Start Near	175.391	usec	9096.540	9426.790
RAL	FB Start Radial	175.391	usec	9096.540	9426.790
RAL	FB Thresh Far	10.000	mv	9096.540	9426.790
RAL	FB Thresh Near	4.000	mv	9096.540	9426.790
RAL	FB Thresh Radial	4.000	mv	9096.540	9426.790
RAL	Fluid Travel Time	200.000	usec/ft	9096.540	9426.539

### DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : AP 524-17-695

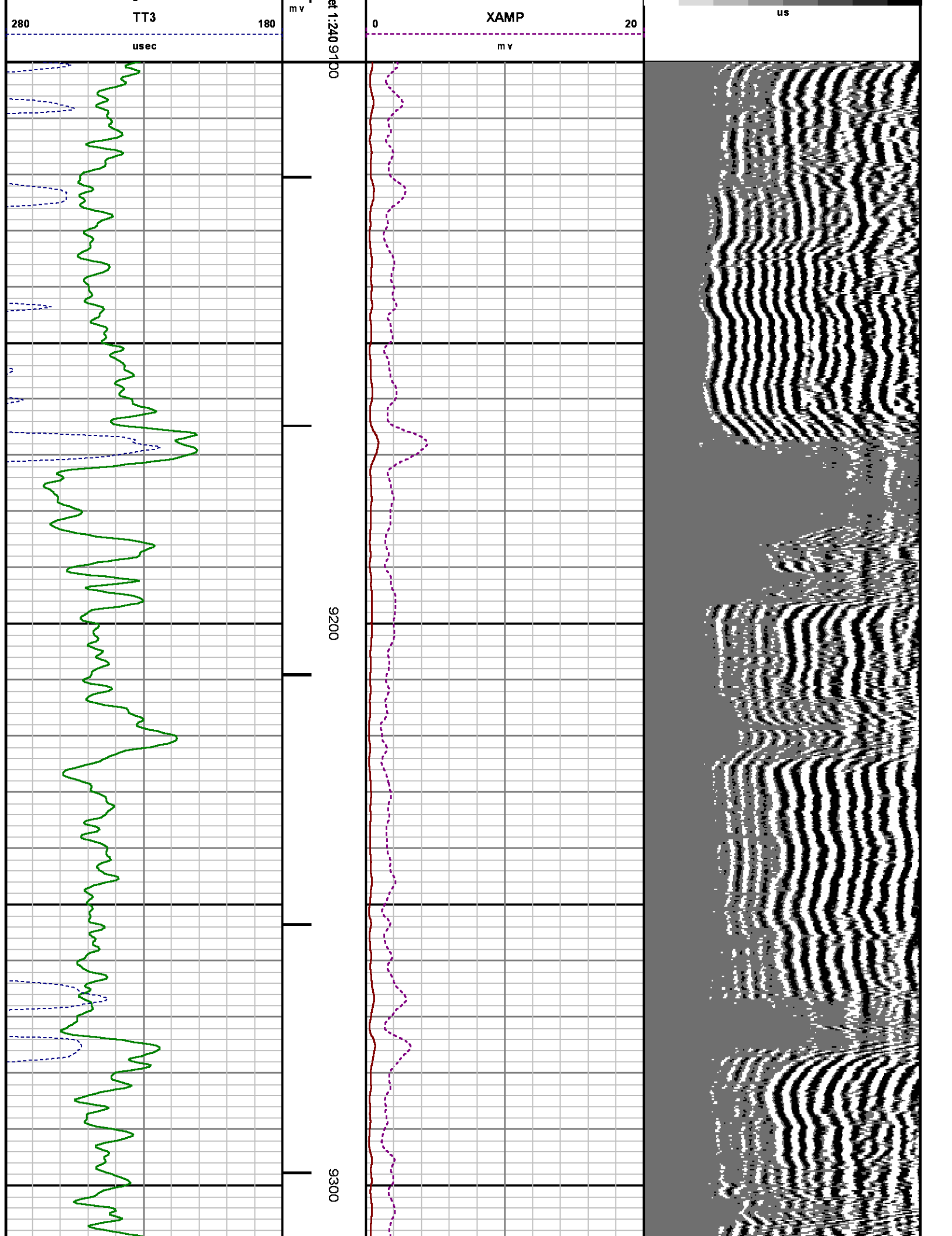
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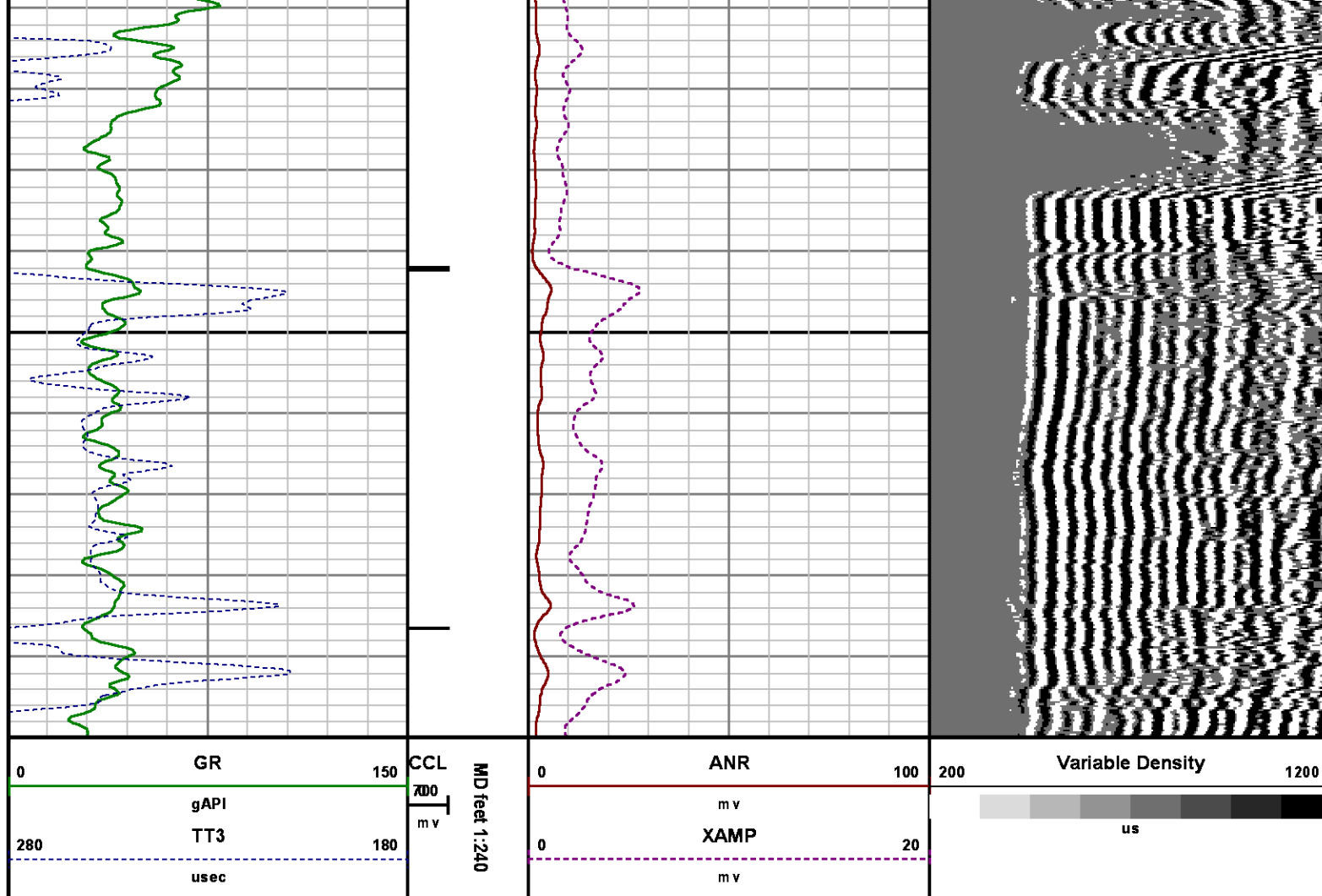
Mode : PlotMgr 5.4.504

Interval : 9100.00 - 9400.00 feet UP

Created : 8/22/2014 8:02:46 AM







## CALIBRATION SUMMARY

*RALSHP*

Shop Calibration: C:\case\calver\RALSHP\496AA\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Aug 21 08:38:46 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: AA

Tool Delay [usec] -53.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	219	216	30	166	25	-0.072	100.00	0.31
3 Ft. Receiver	219	216	30	166	16	0.293	100.00	0.31
5 Ft. Receiver	327	325	30	263	25	1.135	150.00	0.35
Radial #1	219	216	30	166	17	0.687	100.00	0.32

Radial #2	218	216	30	166	17	0.492	100.00	0.31
Radial #3	217	216	30	166	17	0.972	100.00	0.31
Radial #4	217	216	30	166	17	0.942	100.00	0.31
Radial #5	219	216	30	166	17	1.052	100.00	0.31
Radial #6	219	216	30	166	17	1.000	100.00	0.32
Radial #7	219	216	30	166	17	0.470	100.00	0.32
Radial #8	220	216	30	166	17	0.652	100.00	0.32

## RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49622 fld.cal

### WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 22 07:24:20 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 22

Tool Delay [usec] -53.00 Casing OD in 4.50 Casing Wt lbm/ft 11.60 Casing ID in 4.00

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.035	0.000	0.99	100.000
3 Ft. Receiver	200	30	2.260			
5 Ft. Receiver	317	30	2.025			
Radial #1	200	30	1.516			
Radial #2	200	30	1.585			
Radial #3	200	30	2.003			
Radial #4	200	30	2.162			
Radial #5	200	30	2.218			
Radial #6	200	30	2.236			
Radial #7	200	30	1.646			
Radial #8	200	30	1.489			

## GAMMA RAY

Calibration File: C:\case\calver\GR\51021.cal

### CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Aug 21 08:27:45 2014 TOOL SERIES: 2459XA ASSET: 510 SEQ: 21

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	59.20	389.20	0.561	33.19	218.19	185.00

Verification File: C:\case\calver\GR\51021.VP

### PRIMARY LOG VERIFICATION



DATE/TIME PERFORMED: Thu Aug 21 08:31:11 2014

TOOL SERIES:

2459XA

ASSET:

510

SEQ:

21

Calibrator #

Background

Calibrator On

Multiplicative

Background

Calibrator On

Differential

[cps]

[cps]

[api]

[api]

[api]

S2K

WA612

60.31

384.76

0.561

33.81

215.70

181.89

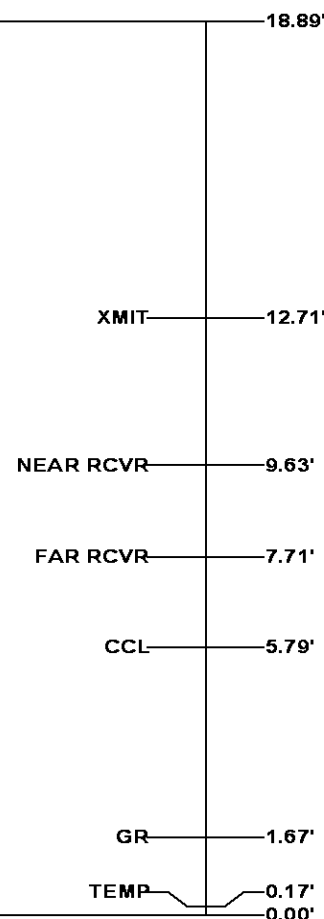
# TOOL DIAGRAM

**OTA SHORT CABLE HEAD****PROBE 2 3/4 DUAL RECEIVER RADII**

Series 1426XA  
Mnemonic PROB  
Diameter 2.75"  
Length 11.17'  
Measure Point 0.75' FAR RCVR  
Measure Point 2.67' NEAR RCVR  
Measure Point 5.75' XMIT  
Temp Rating 350.00 °F  
Press Rating 18000.00 PSI

**RAL GR/TEMP/CCL/CHV DETECTOR**

Series 1355XA  
Mnemonic RAL  
Diameter 2.75"  
Weight 85.00 lb  
Length 6.96'  
Measure Point 0.17' TEMP  
Measure Point 1.67' GR  
Measure Point 5.79' CCL  
Temp Rating 400.00 °F  
Press Rating 20000.00 PSI

**Total Length: 18.89'****Total Weight: Not Available****Max Diameter: 0' 2.75"****BAKER  
HUGHES****Baker Atlas****Company**

WPX ENERGY

**Well**

AP 524-17-695

**Field**

PARACHUTE

**County**

GARFIELD

**State**

CO

**Location**

SHL: 47' FNL &amp; 2492' FWL (20 6S 95W)

**Elevations**

KB 6935

**File No:**

CH089261

**API No:**

05045213850000

17 6S 95W

CASE

BHL: 193' FSL & 2251' FWL (17 6S 95W)

DF

AP 21-20-695 PAD

GL 6909

NABORS 573

SEC 17 TWP 6S RGE 95W