



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH091480 AP 324-17-695

API No: PARACHUTE

05045213910000 GARFIELD State CO

Location

17 6S 95W

AP 21-20-695 PAD

NABORS 673

Other Services
RPM

SEC 17 TWP 6S RGE 95W

GL Elevation 6909 ft

KB 26 ft Above P. D.

KB

Elevations
KB 6935 ft
DF
GL 6909 ft

Permanent Datum

Log Measured From

Drill Measured From

Date 11/OCT/14

Run ONE

Service Order US091480

Depth Driller 9655 ft

Depth Logger 9625 ft

Bottom Logged Interval 9615 ft

Top Logged Interval 26 ft

Time Started 20:30

Time Finished 23:30

Operator Rig Time 3 HOURS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 77 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 264 degF

Reference Log NA

Reference Log Date NA

Equipment No. 44271

Location GRAND JUNCTION

Recorded By FLOYD RENEAU

Witnessed By ORAN 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 in	0 ft	2537 ft
8.75 in	2537 ft	9661 ft

Casing Record

Size	Weight	Grade	From	To
9.625 in			0 ft	2537 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	9661 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 clients request.

The amount of linear shift is 4 feet.

Logged with zero PSI at wellhead.

BHT = 264 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	2459XA	10218503	CENTRALIZED

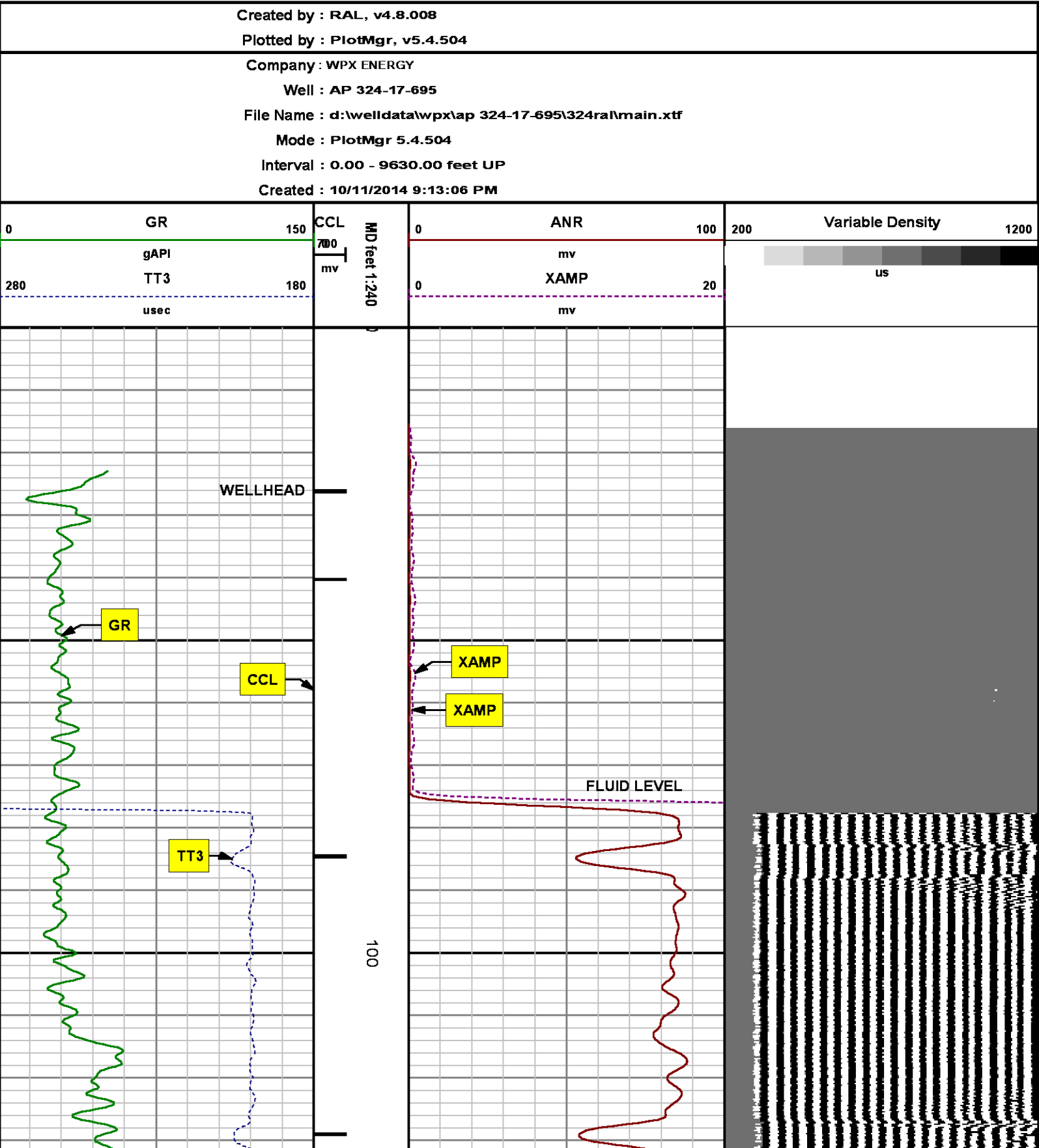
PRIMARY PRESENTATION
0 PSI

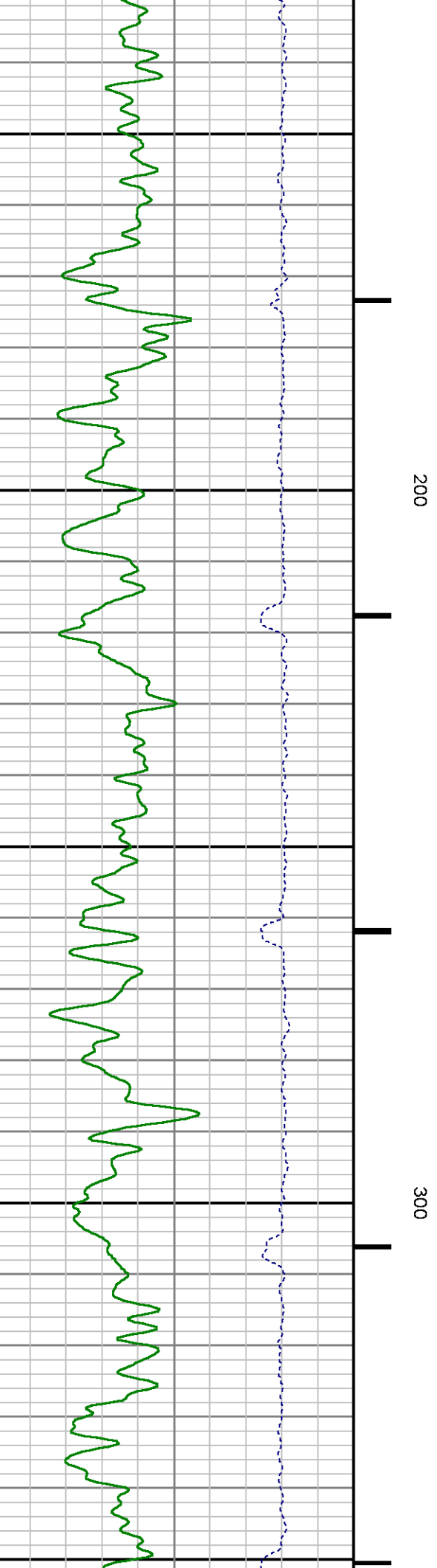
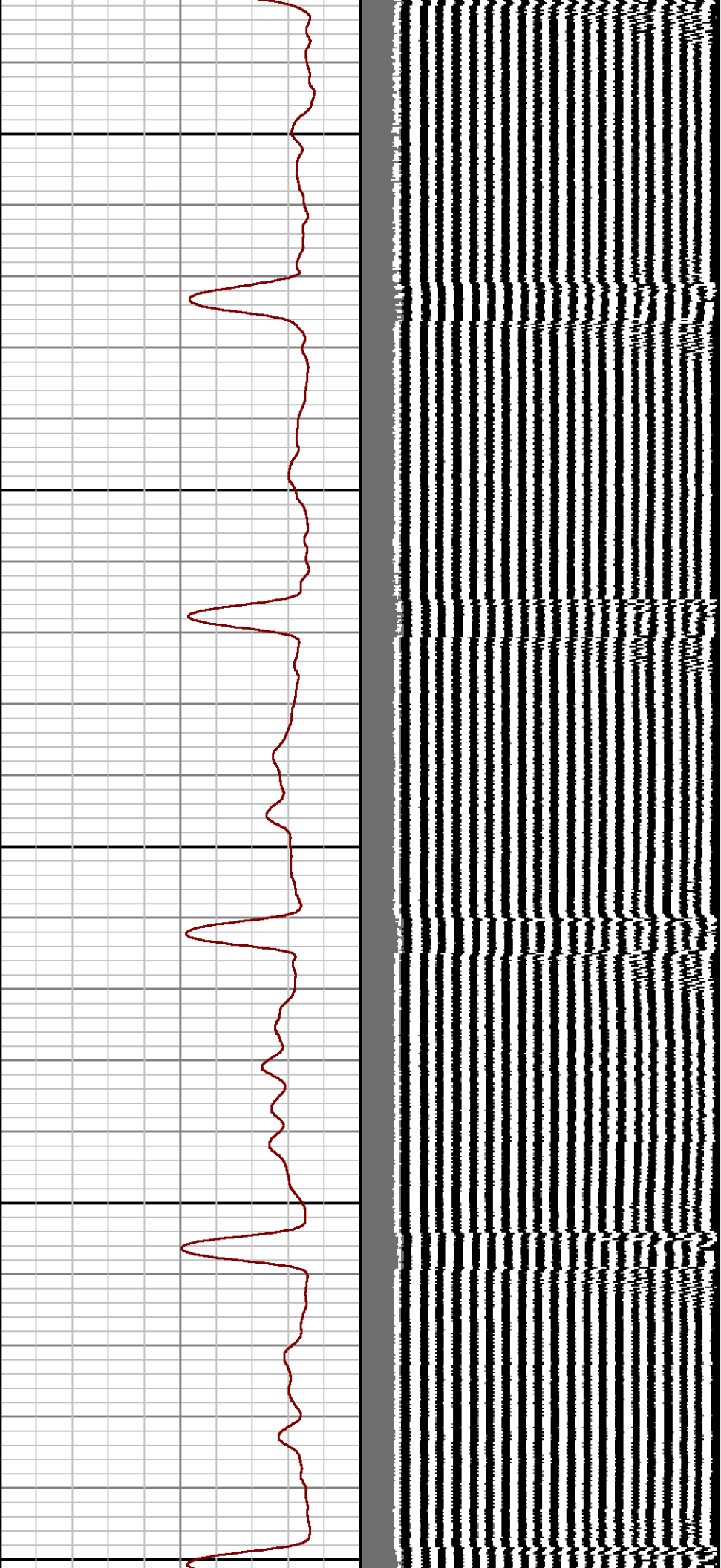
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	27.218	9630.500
RAL	Amp Gate Start Near	195.000	usec	27.218	9630.500
RAL	Amp Gate Start Radial	195.000	usec	27.218	9630.500
RAL	Amp Gate Width Far	25.000	usec	27.218	9630.500
RAL	Amp Gate Width Near	25.000	usec	27.218	9630.500
RAL	Amp Gate Width Radial	25.000	usec	27.218	9630.500
RAL	casing od	4.500	inches	27.218	9630.500
RAL	casing wt	11.600	lbm/ft	27.218	9630.500
RAL	FB Start Far	291.900	usec	27.218	9630.500
RAL	FB Start Near	180.000	usec	27.218	9630.500
RAL	FB Start Radial	180.000	usec	27.218	9630.500
RAL	FB Thresh Far	10.000	mv	27.218	9630.500
RAL	FB Thresh Near	4.000	mv	27.218	9630.500
RAL	FB Thresh Radial	4.000	mv	27.218	9630.500
RAL	Fluid Travel Time	200.000	usec/ft	27.218	9630.500

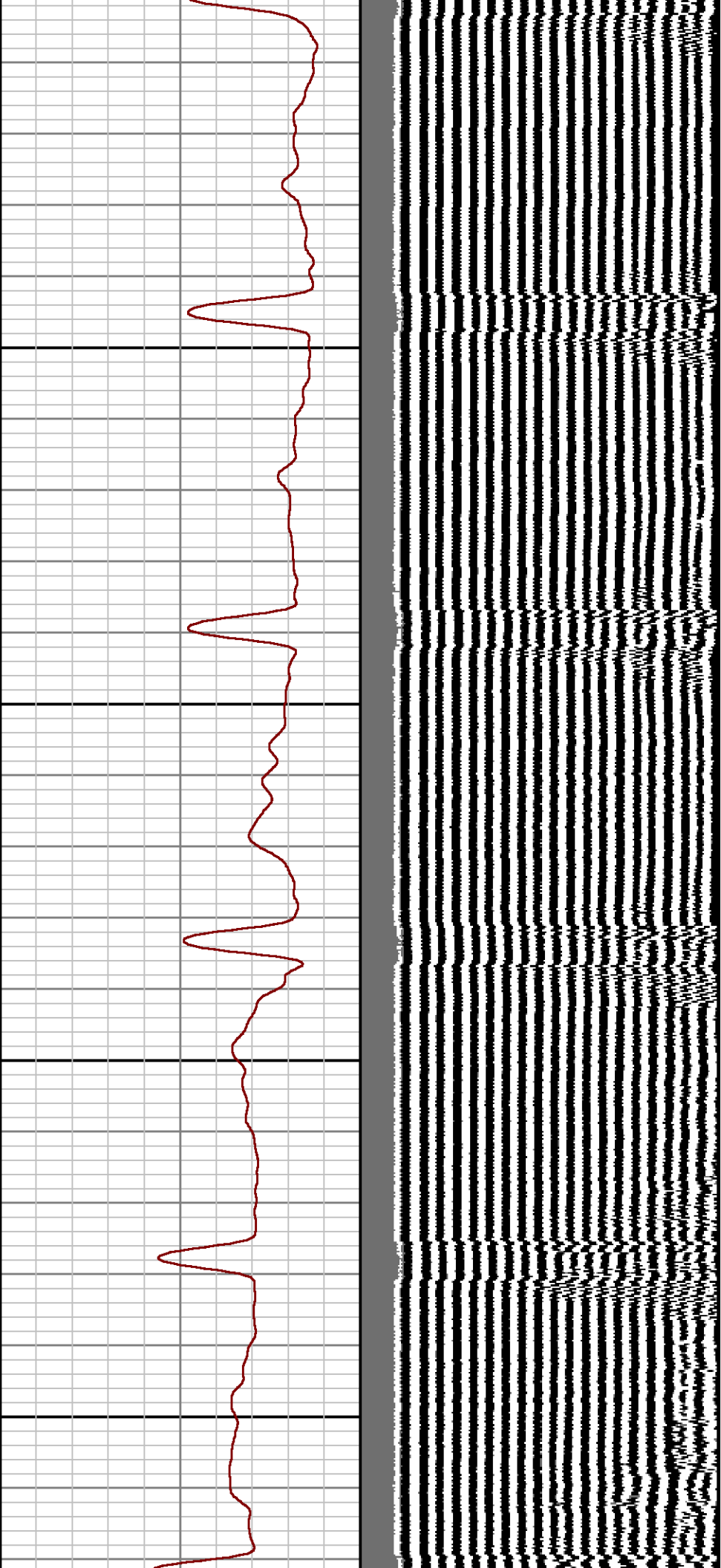
DEPTH OFFSETS
(for Acquired Curves)

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					

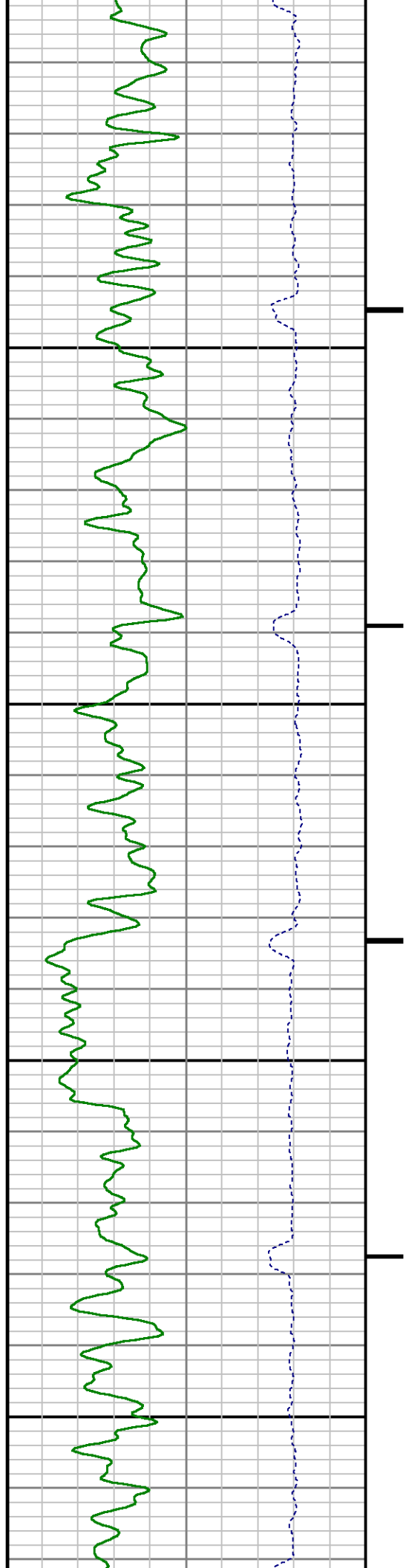


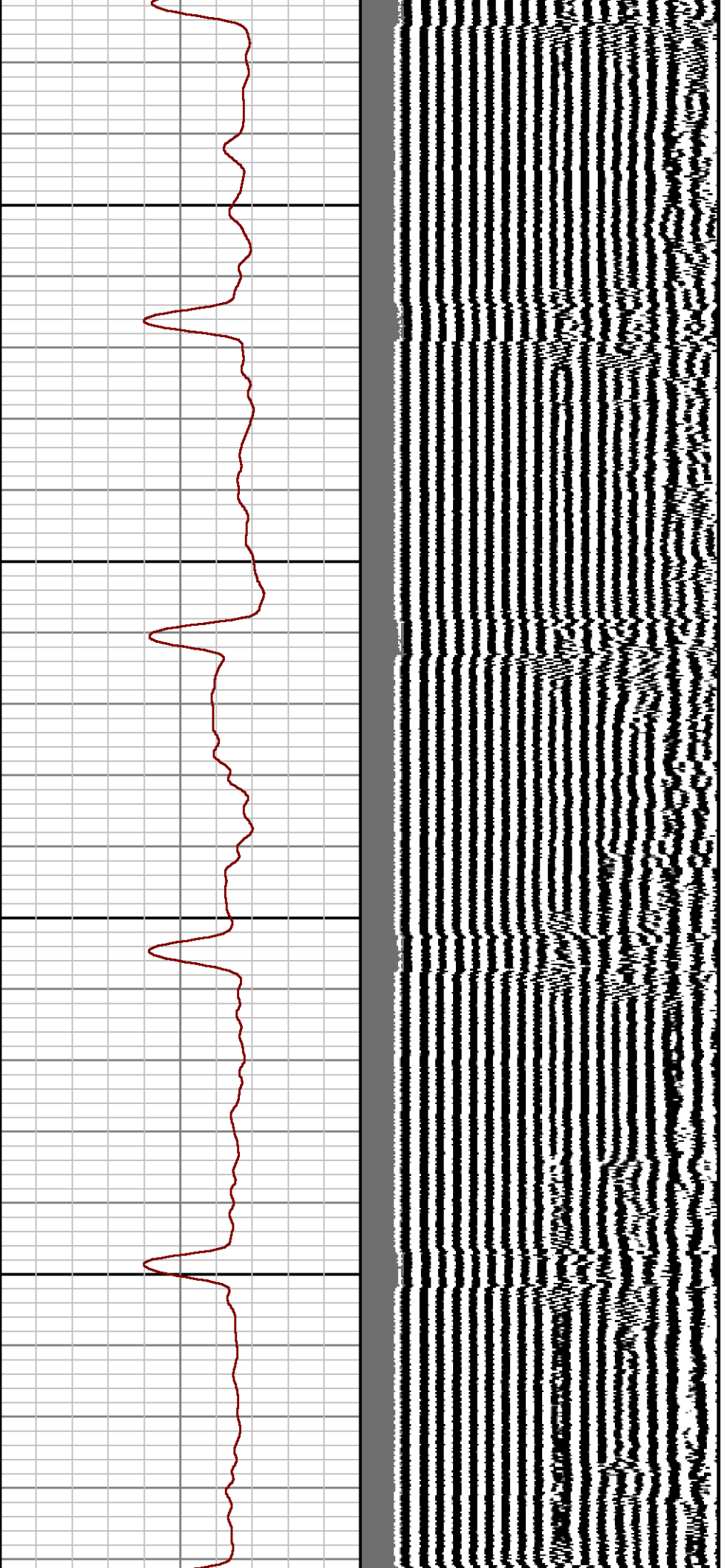




400

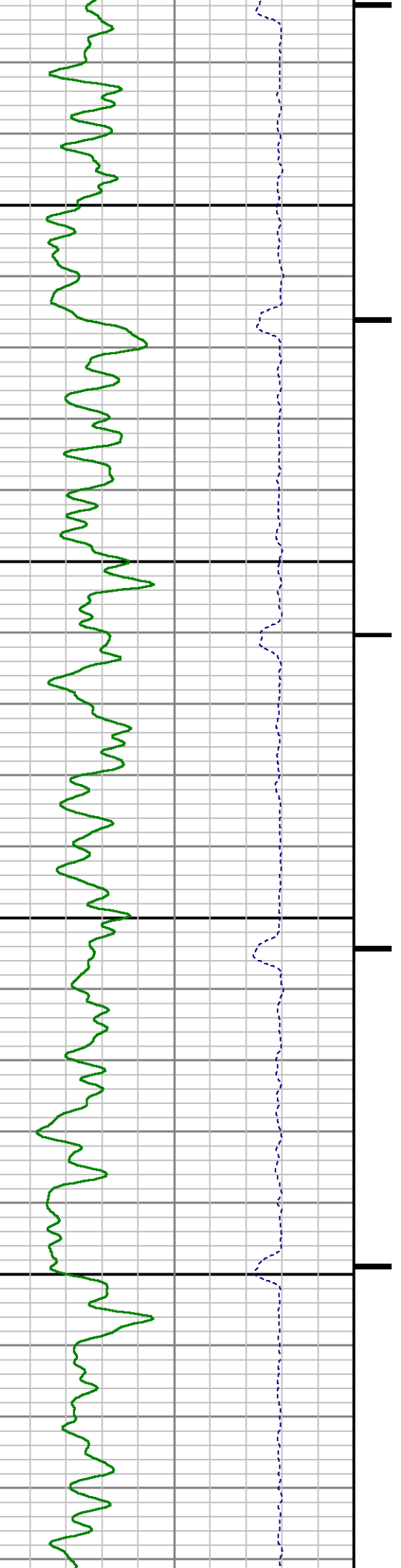
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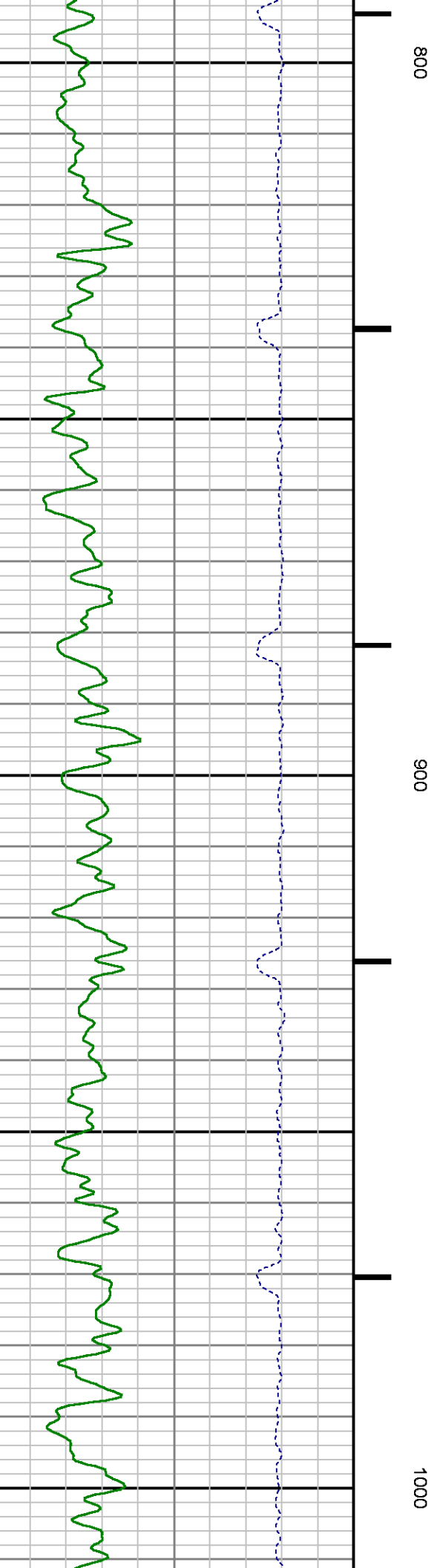
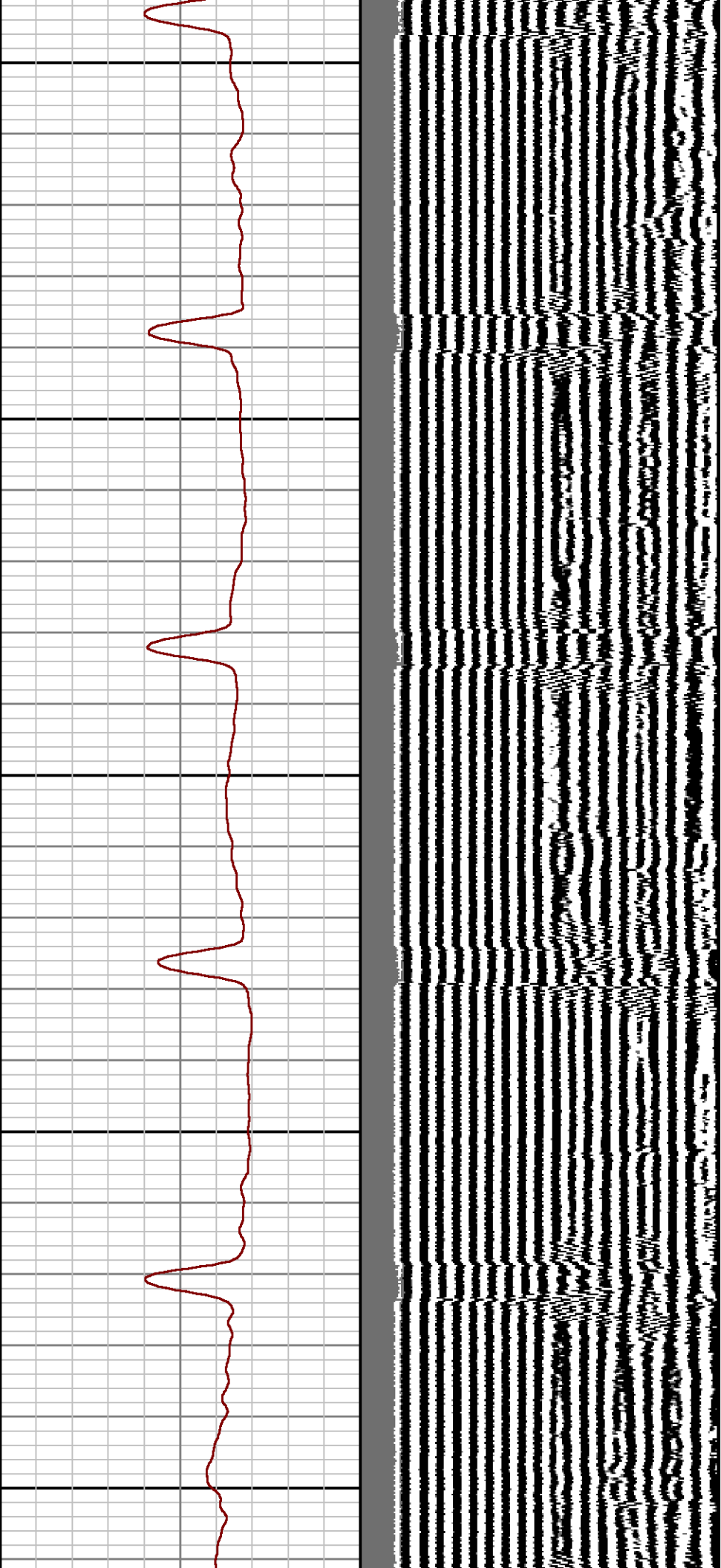


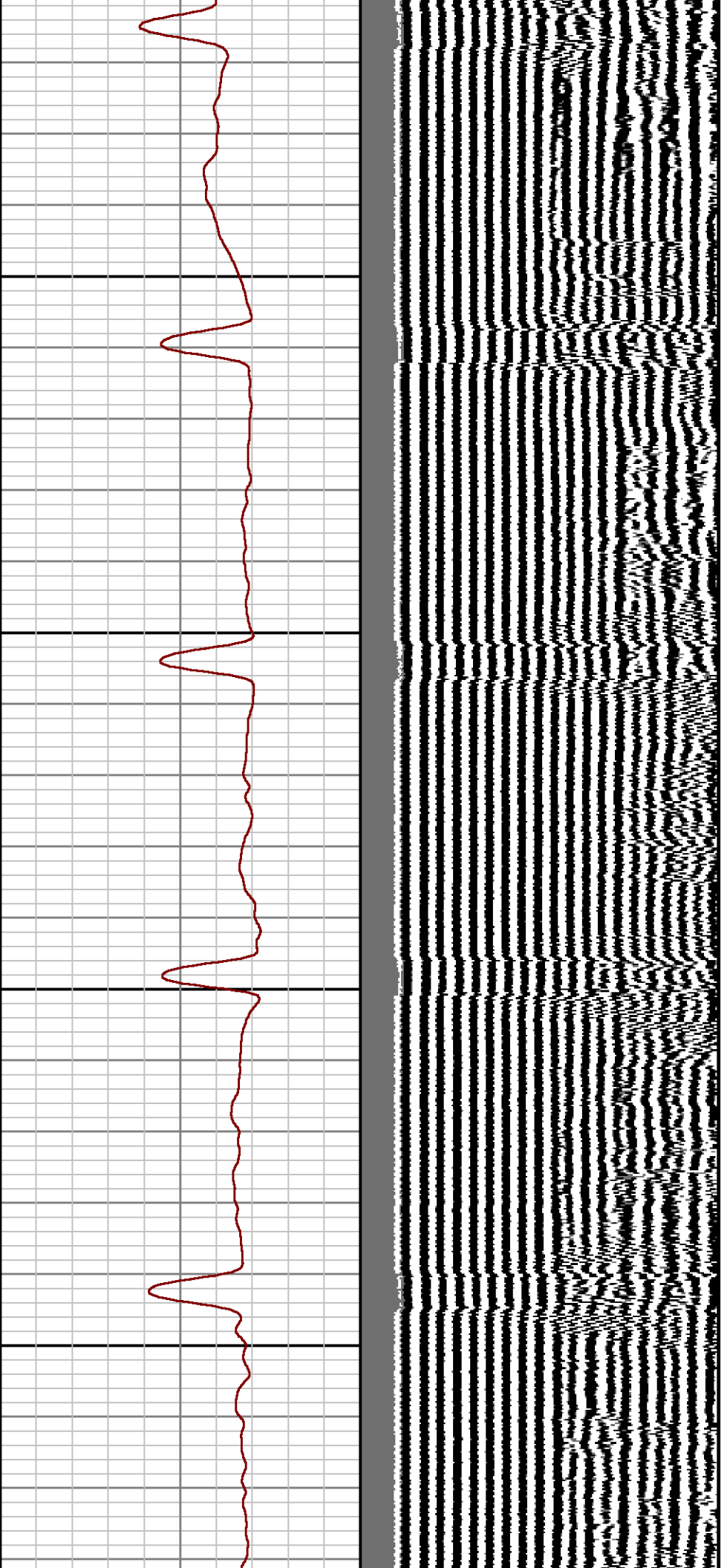


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700

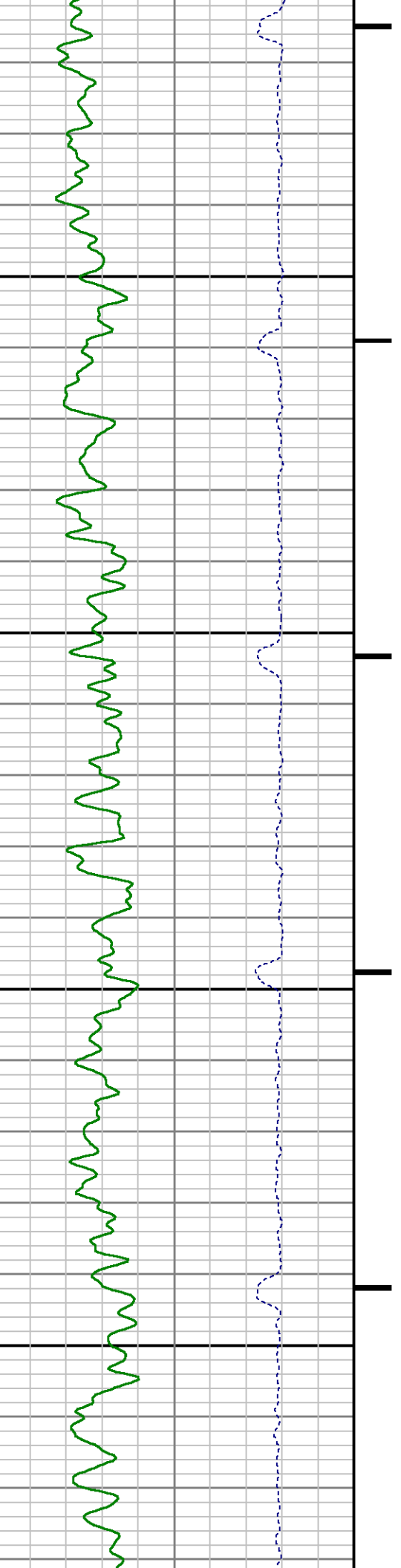


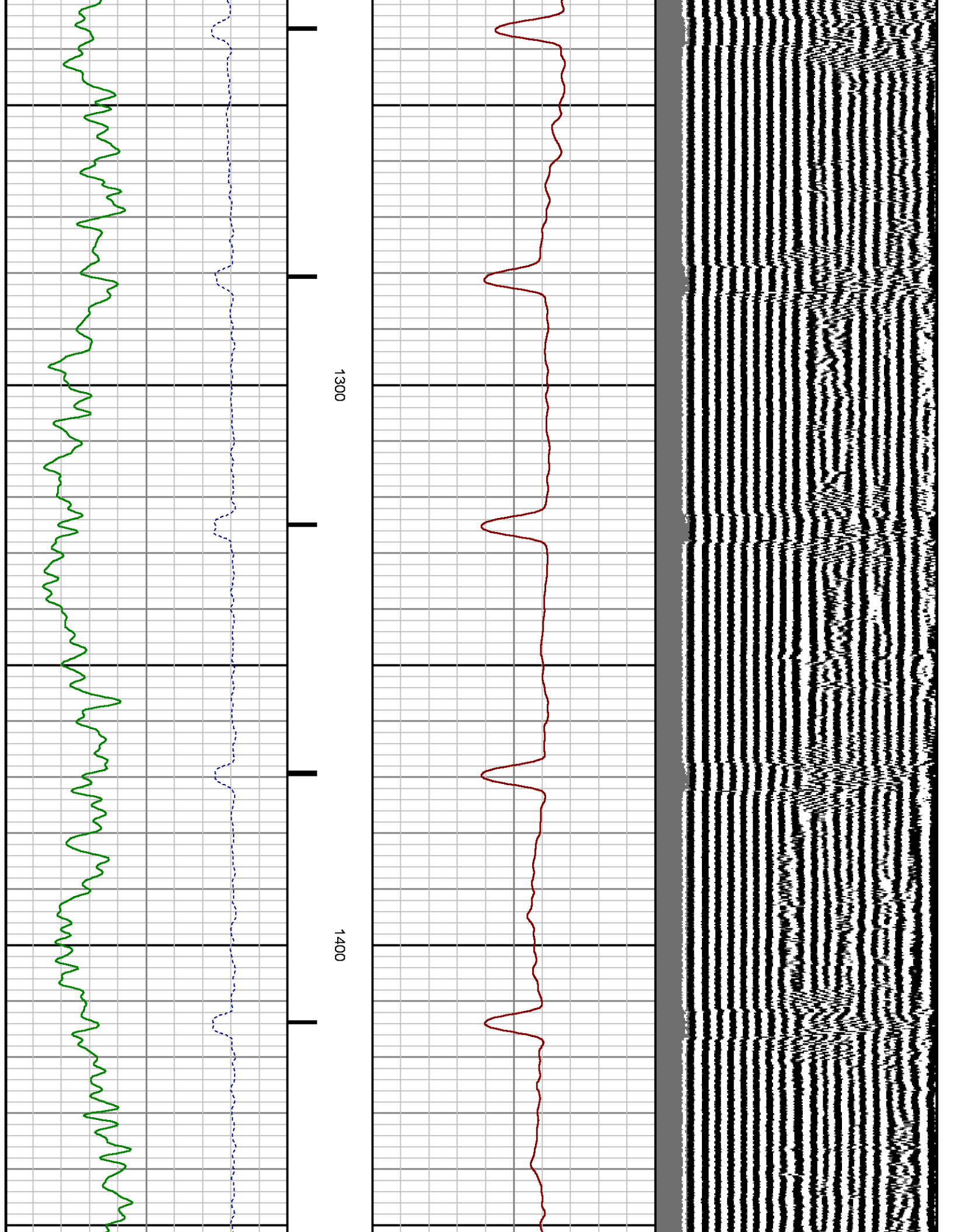


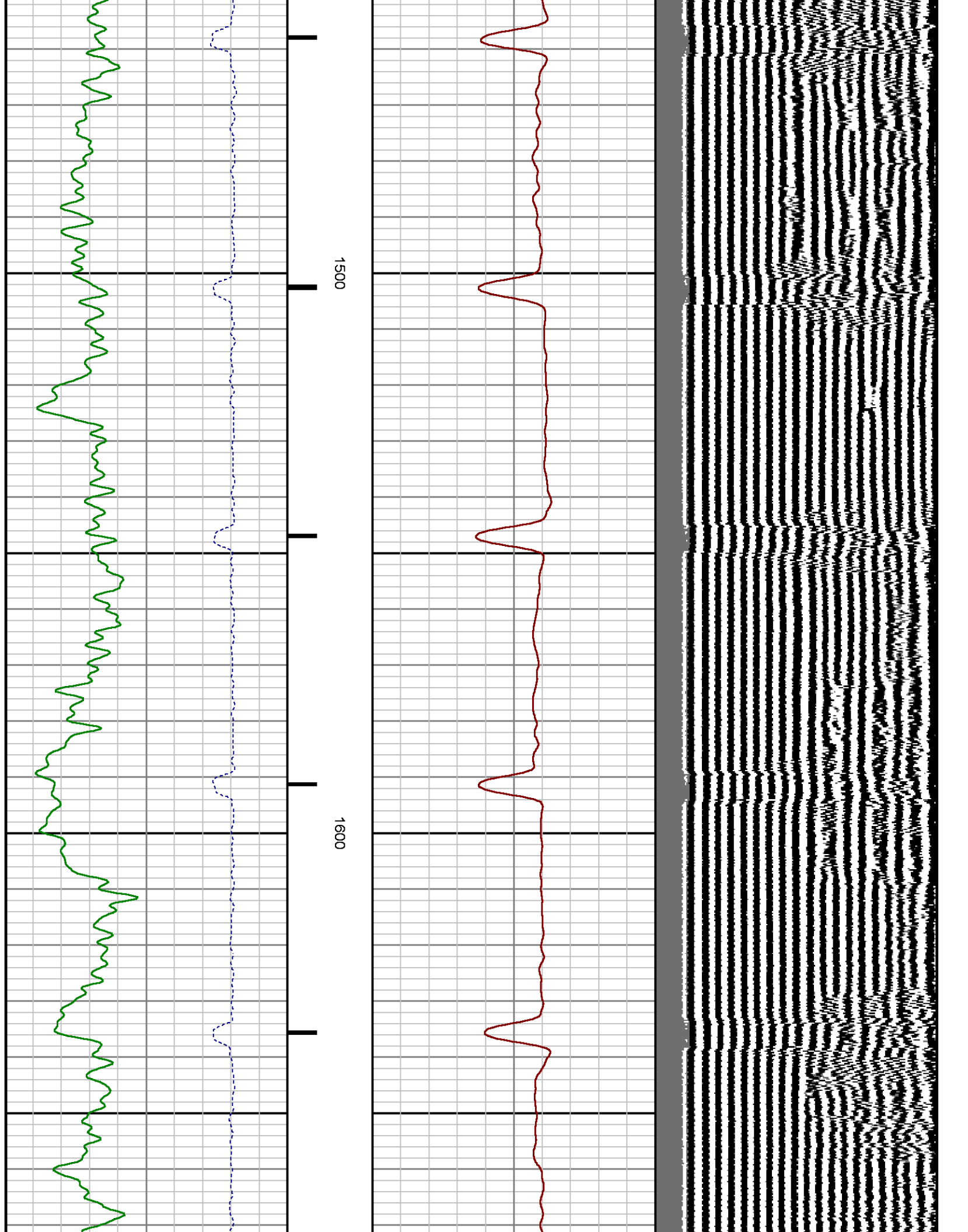


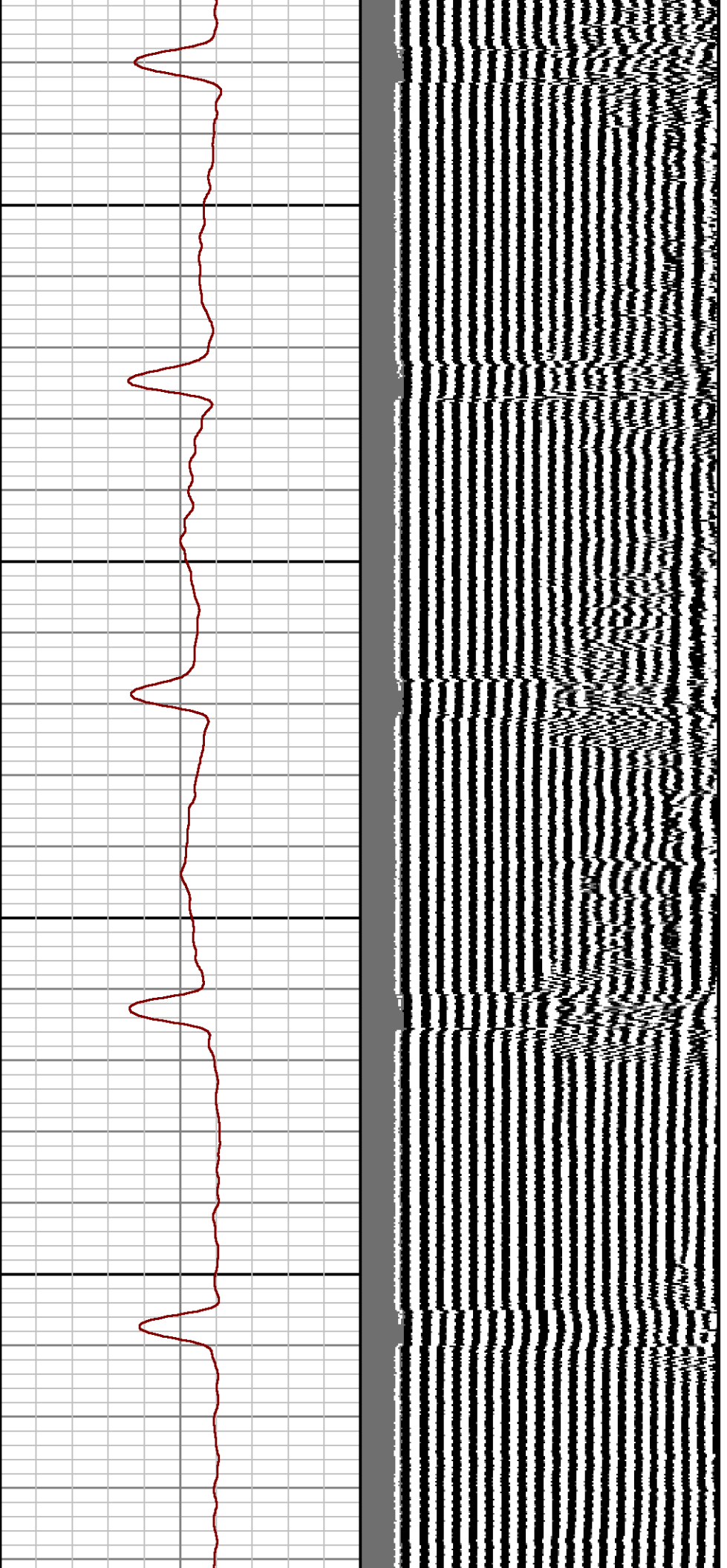
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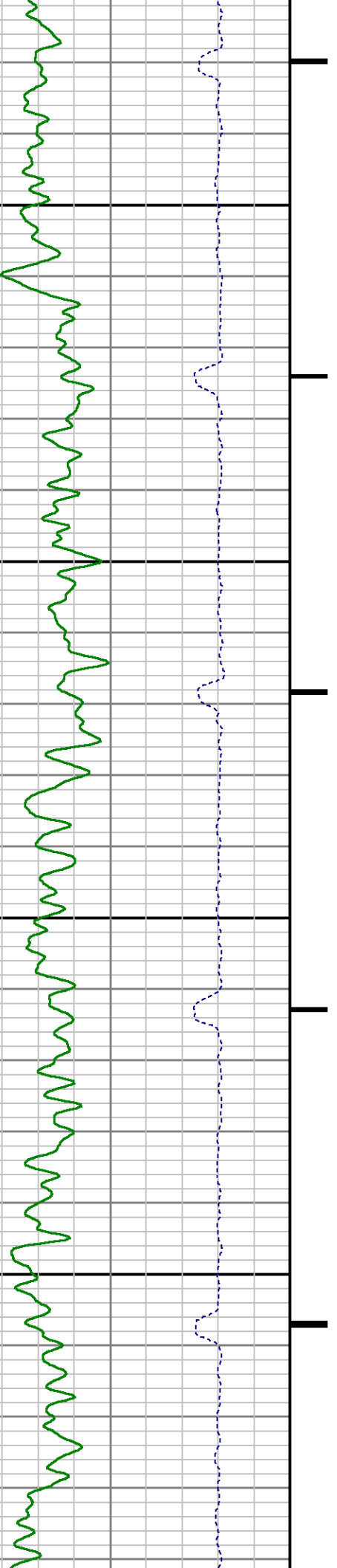


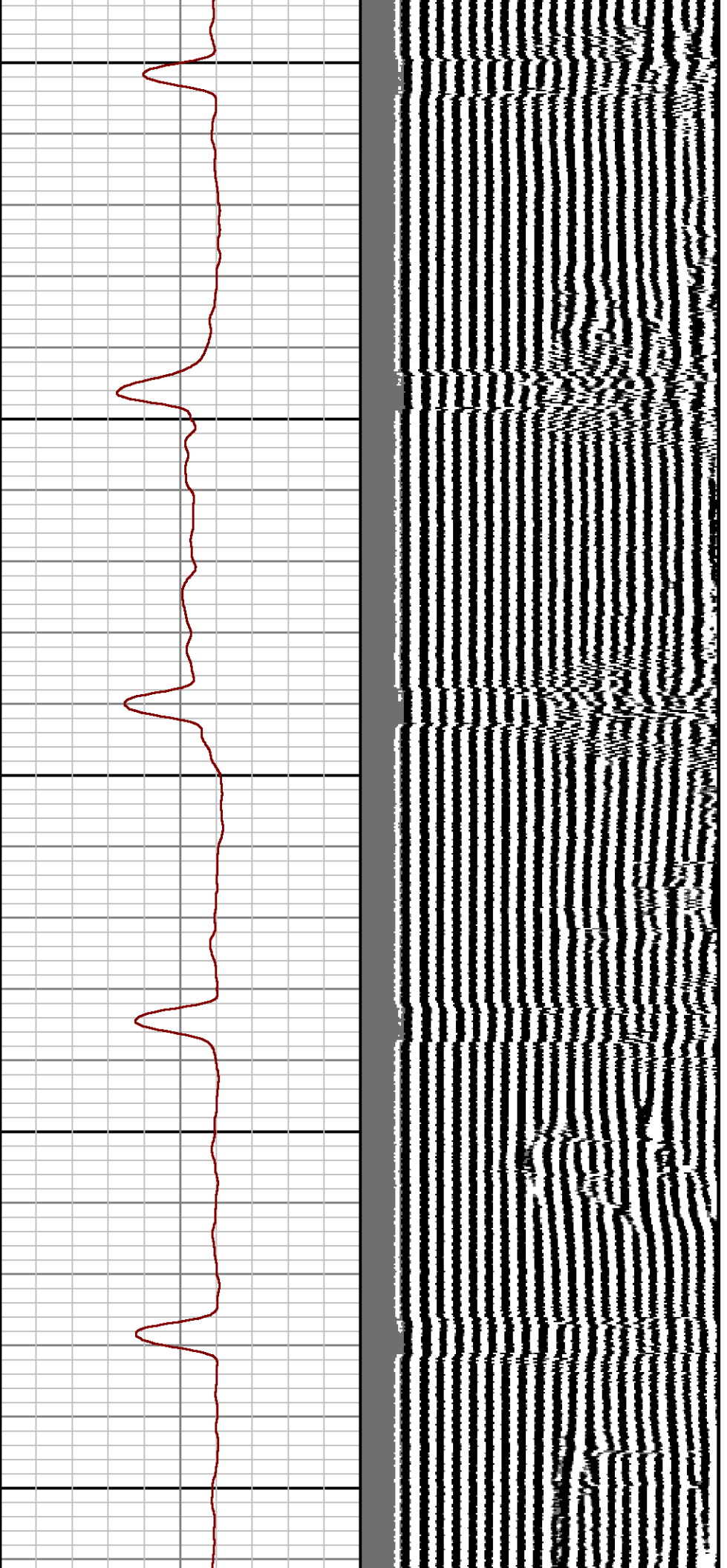




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1800

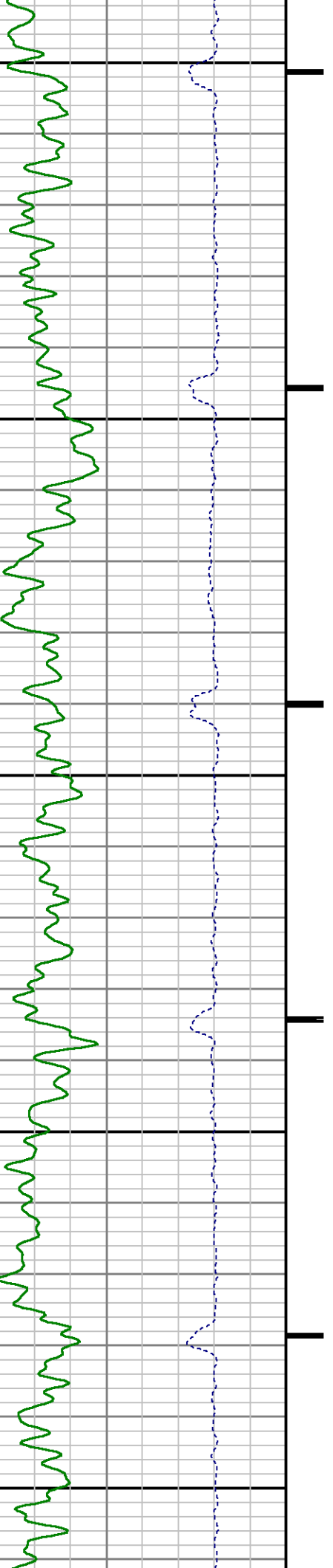


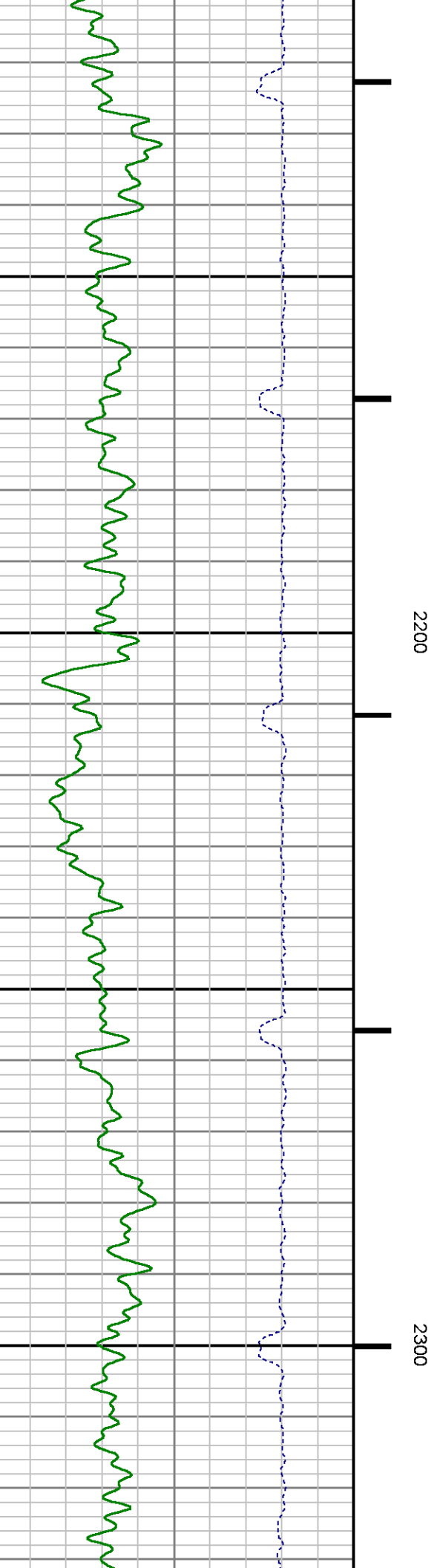
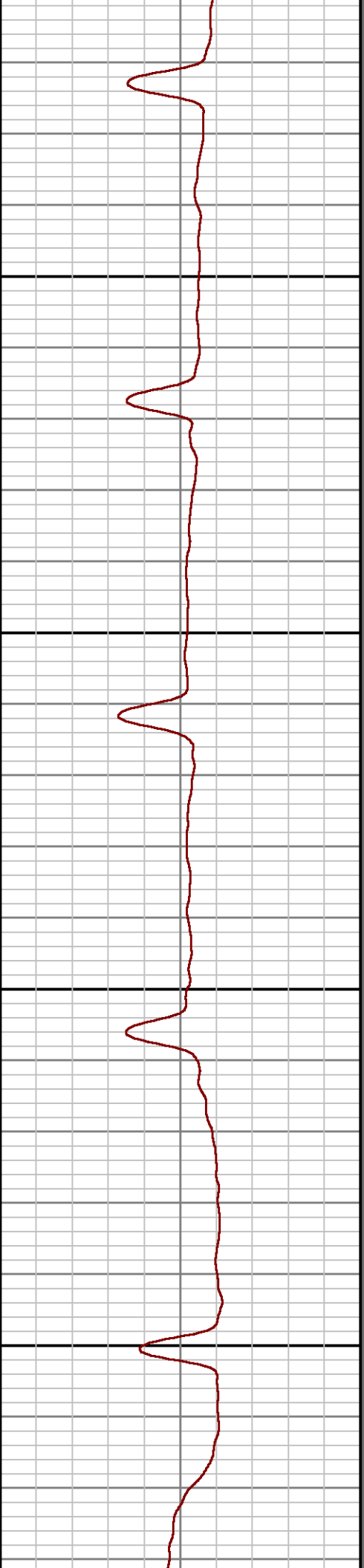
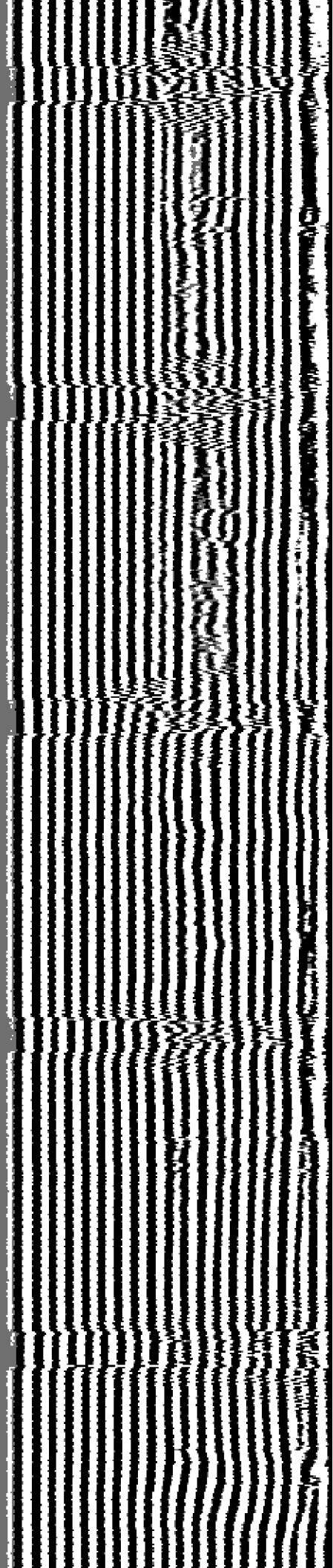


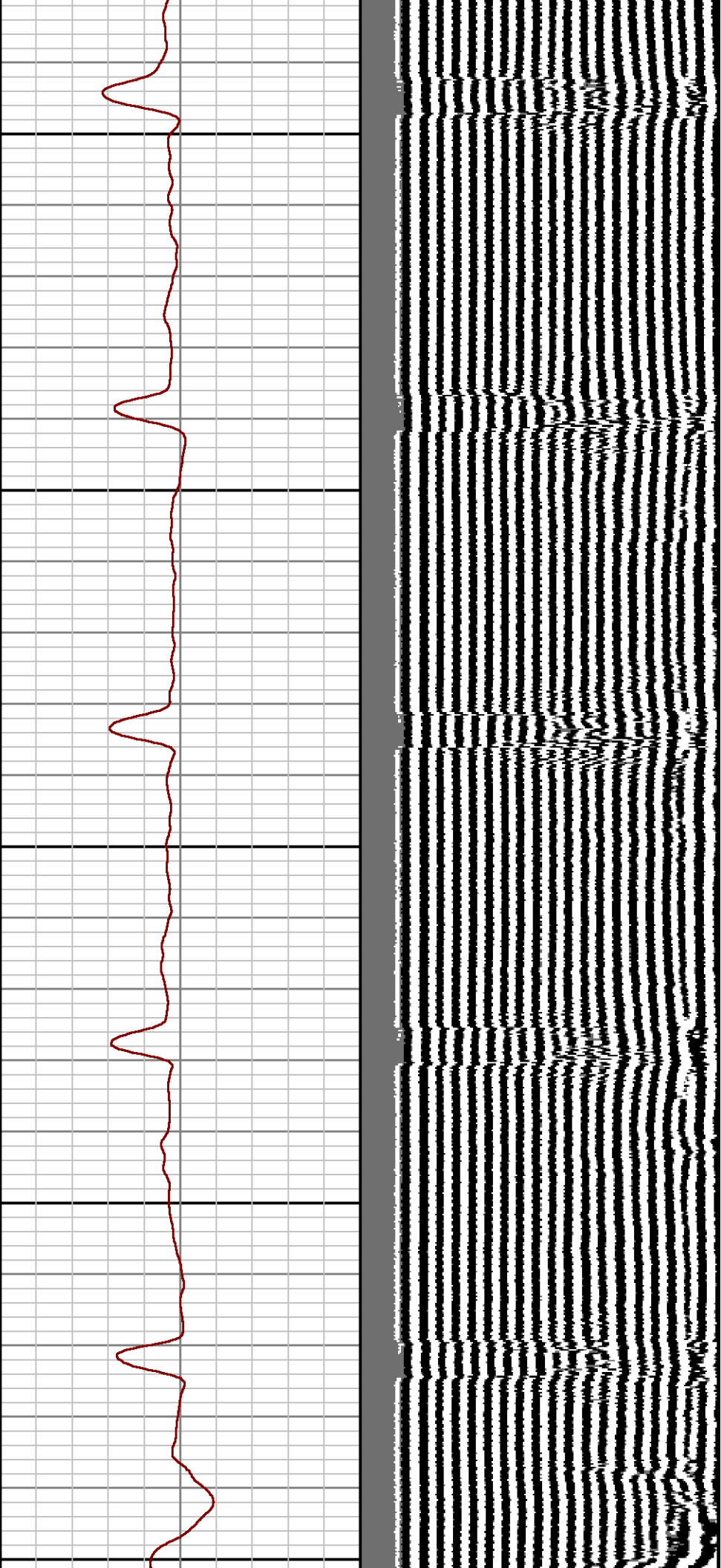
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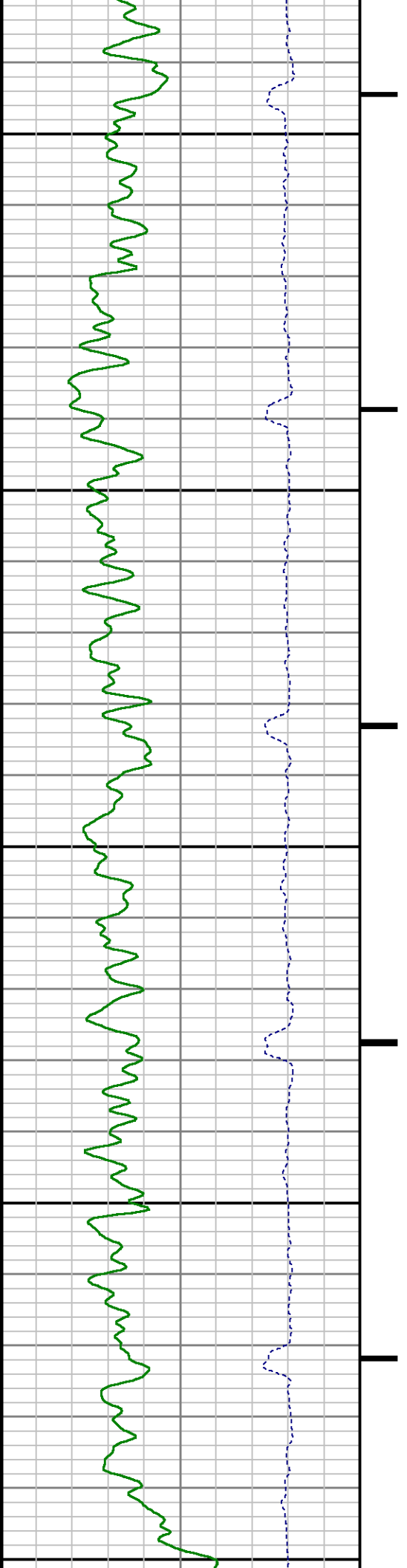


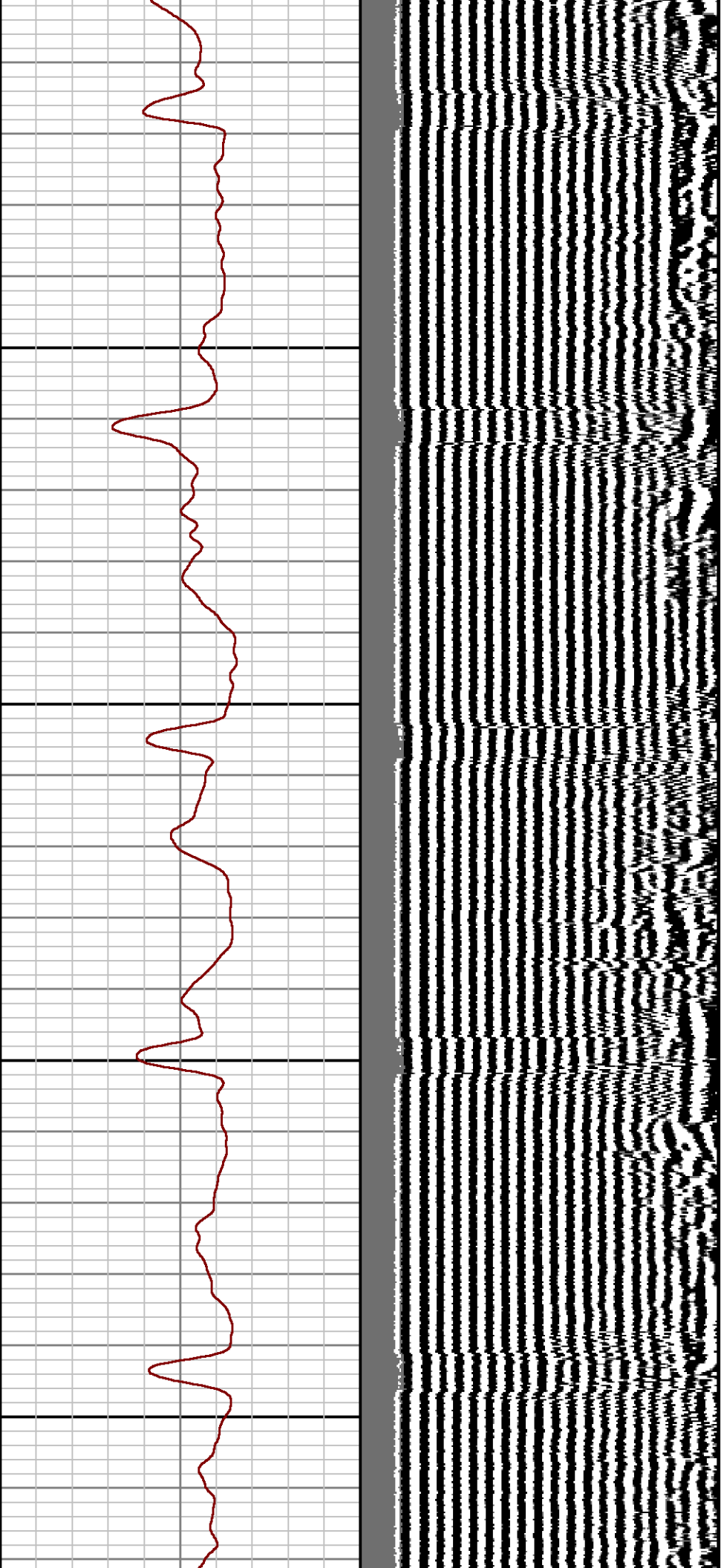




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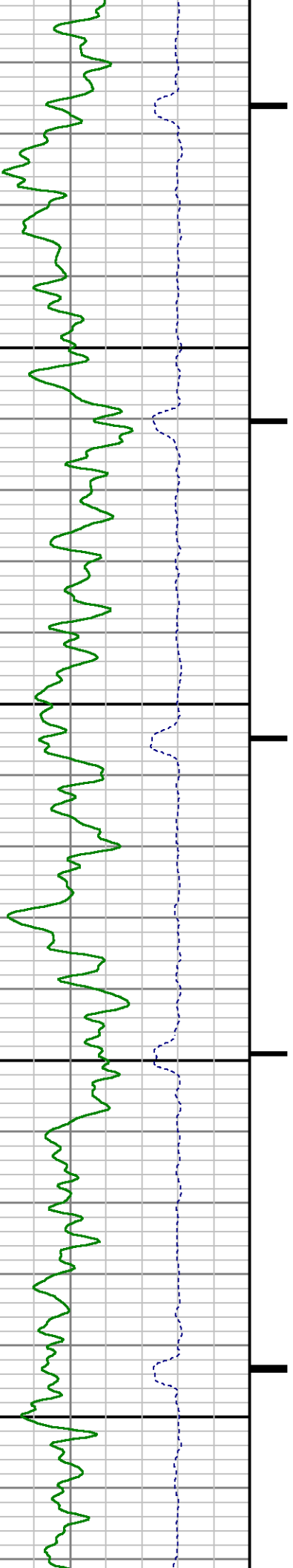
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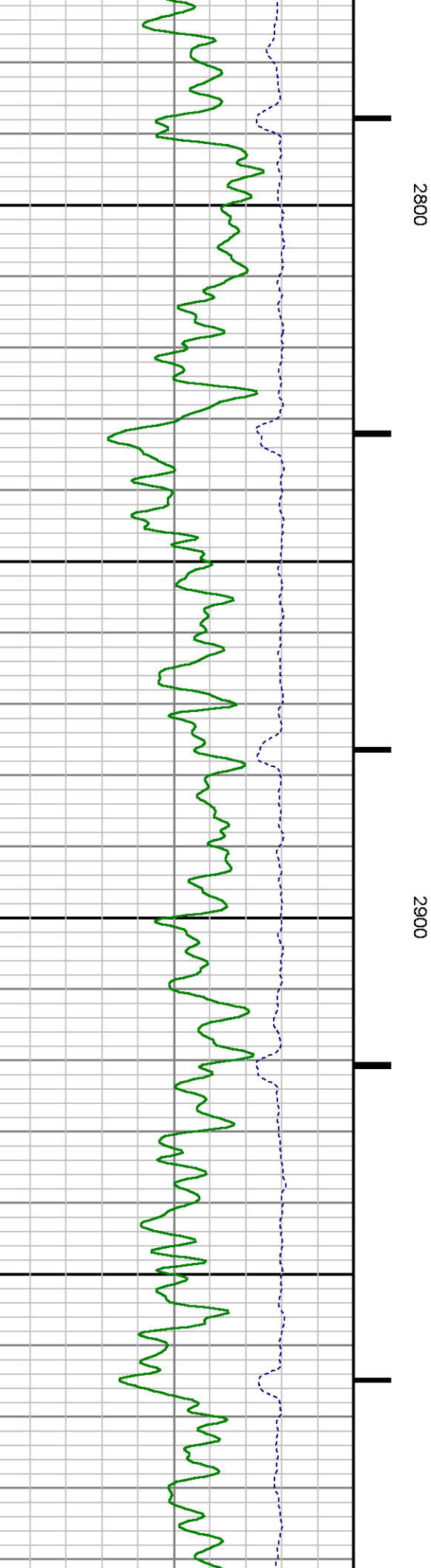
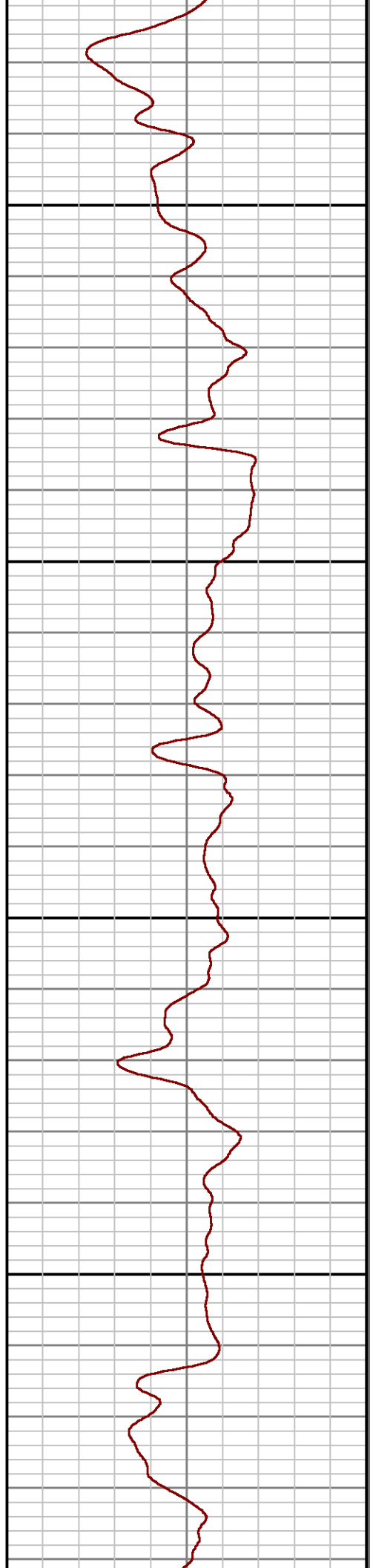
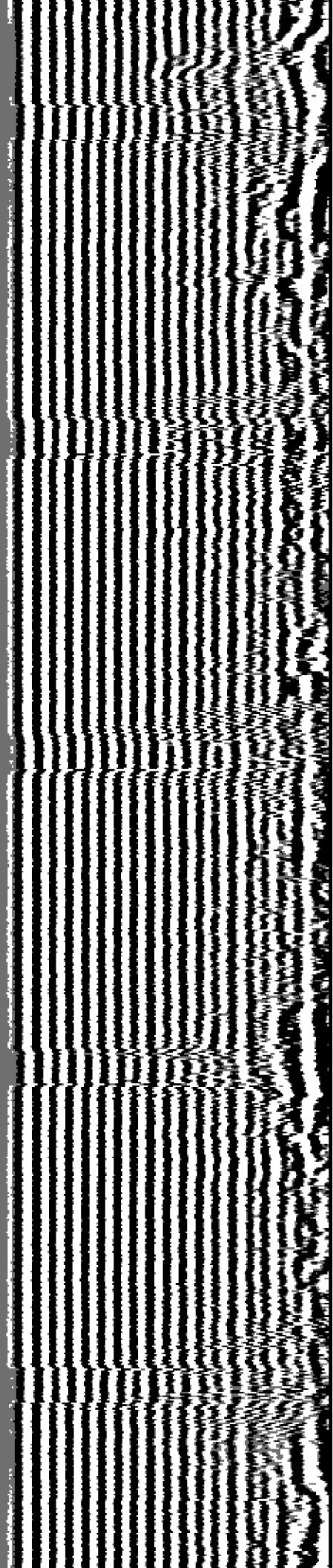


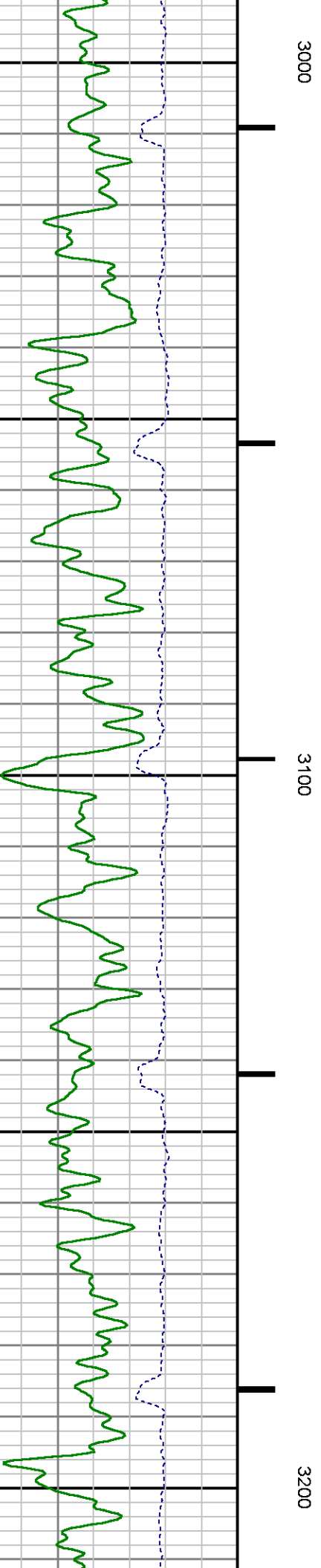
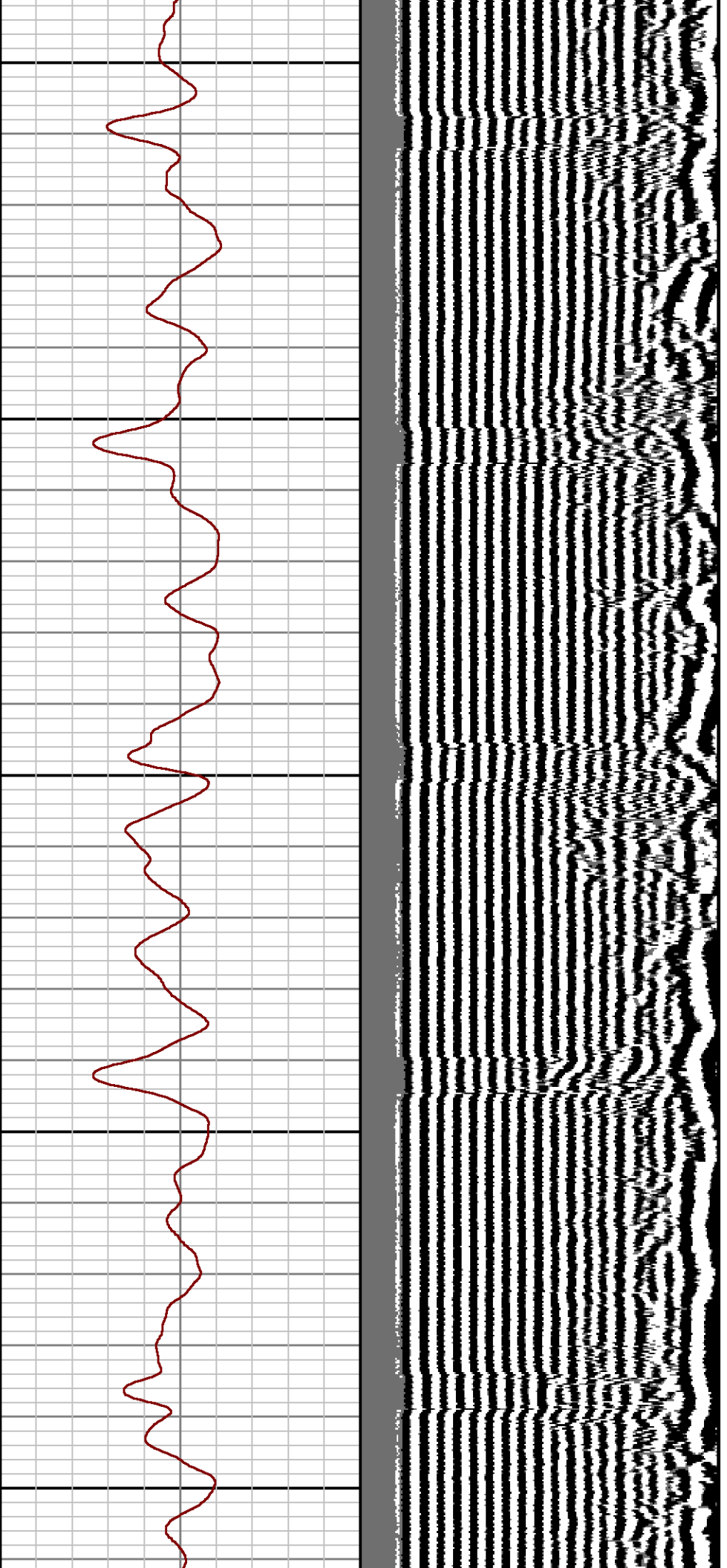


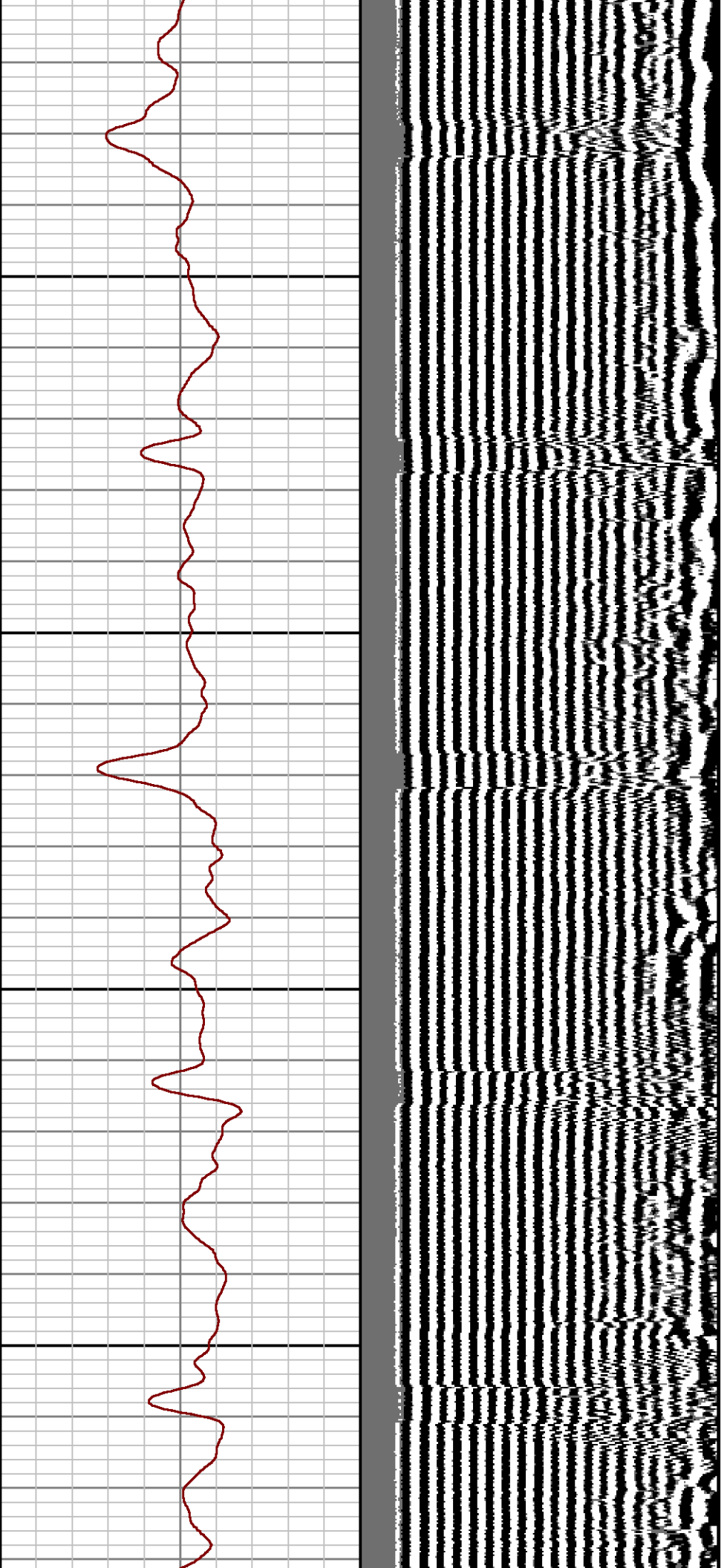
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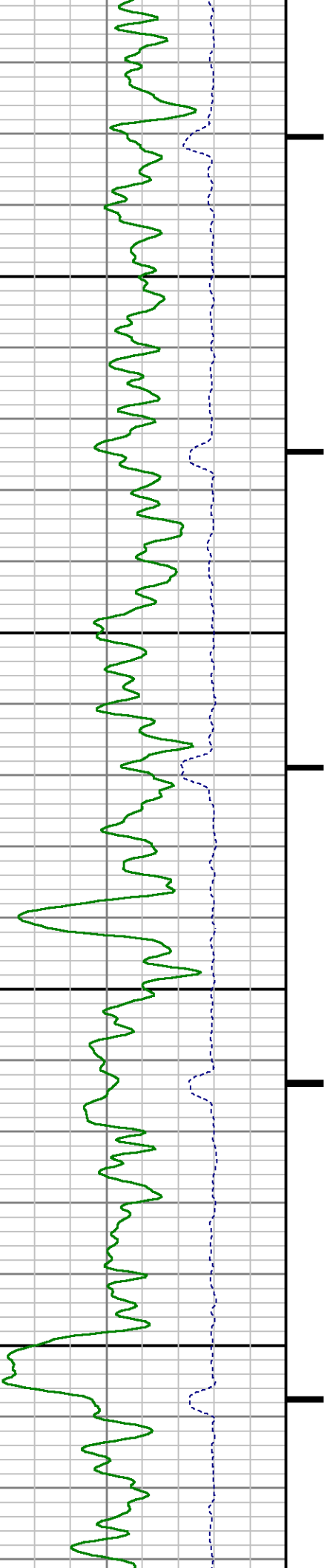


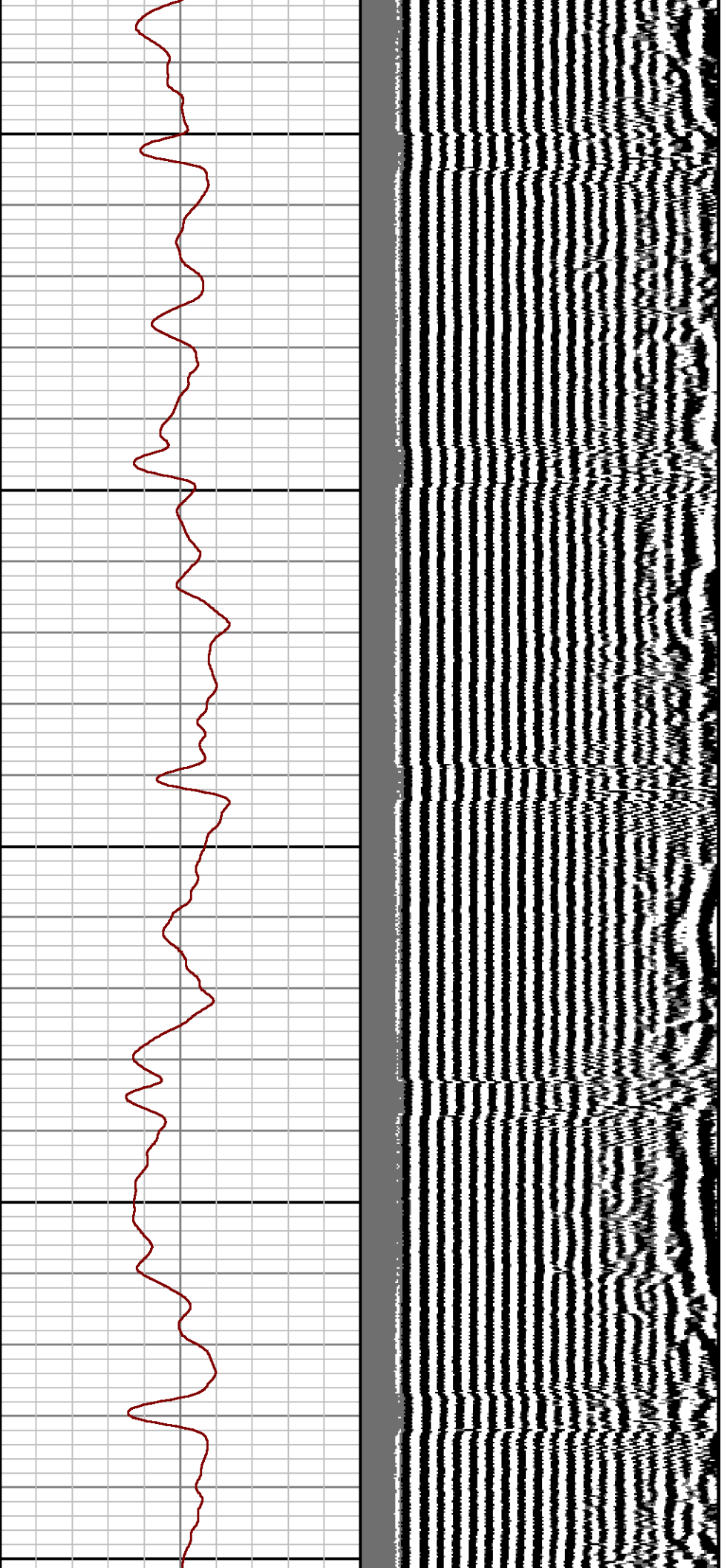




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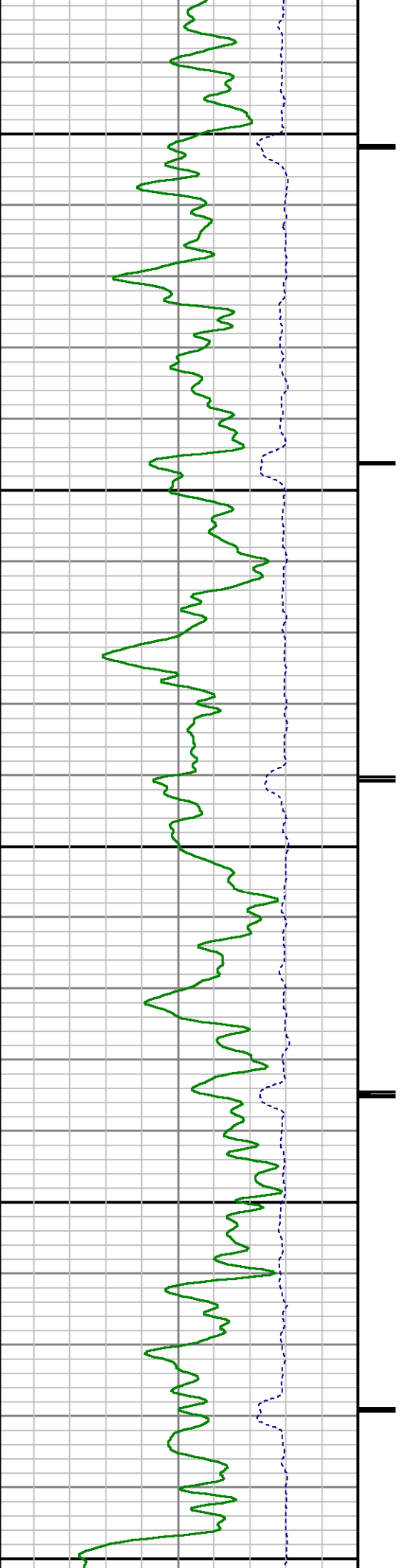
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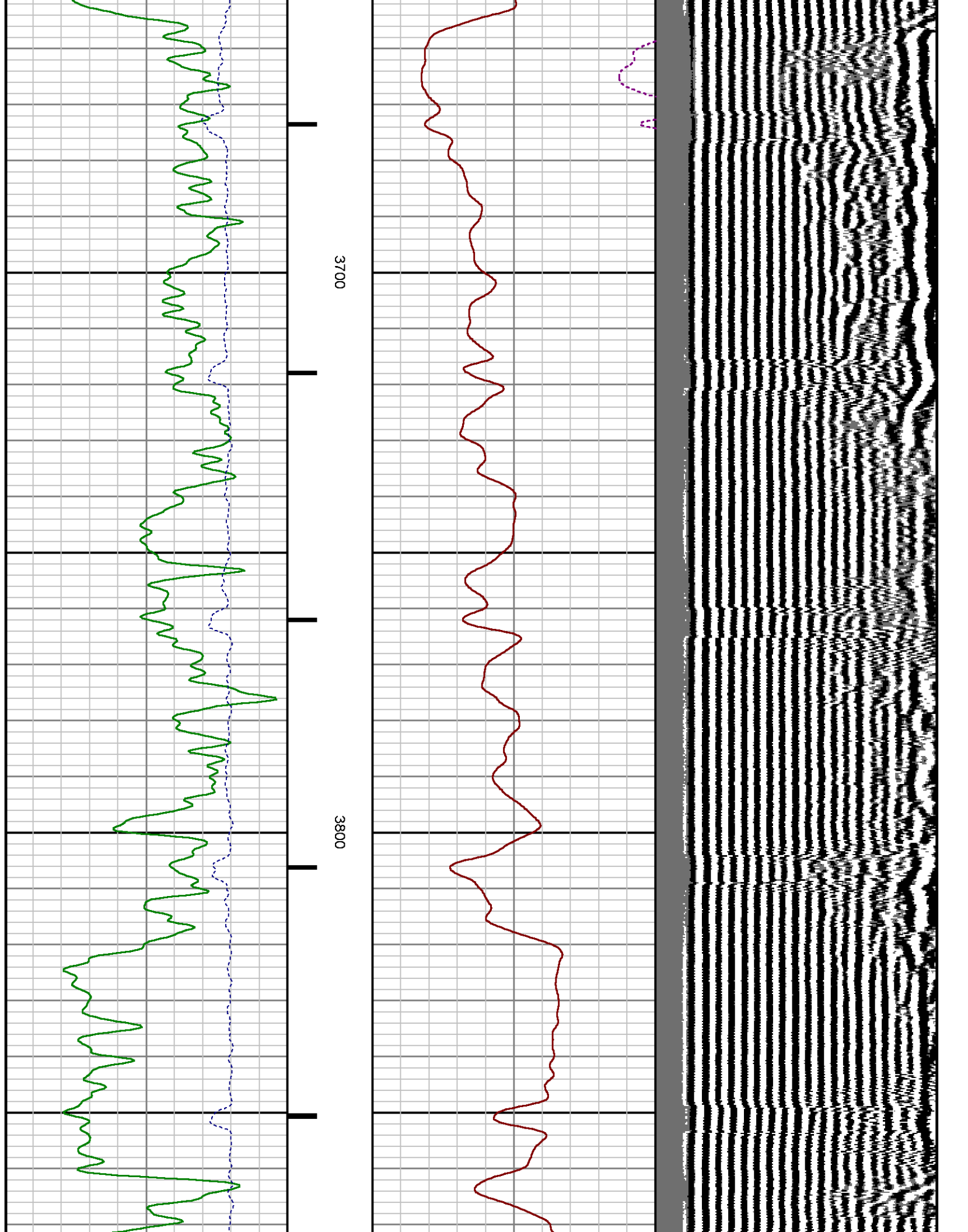


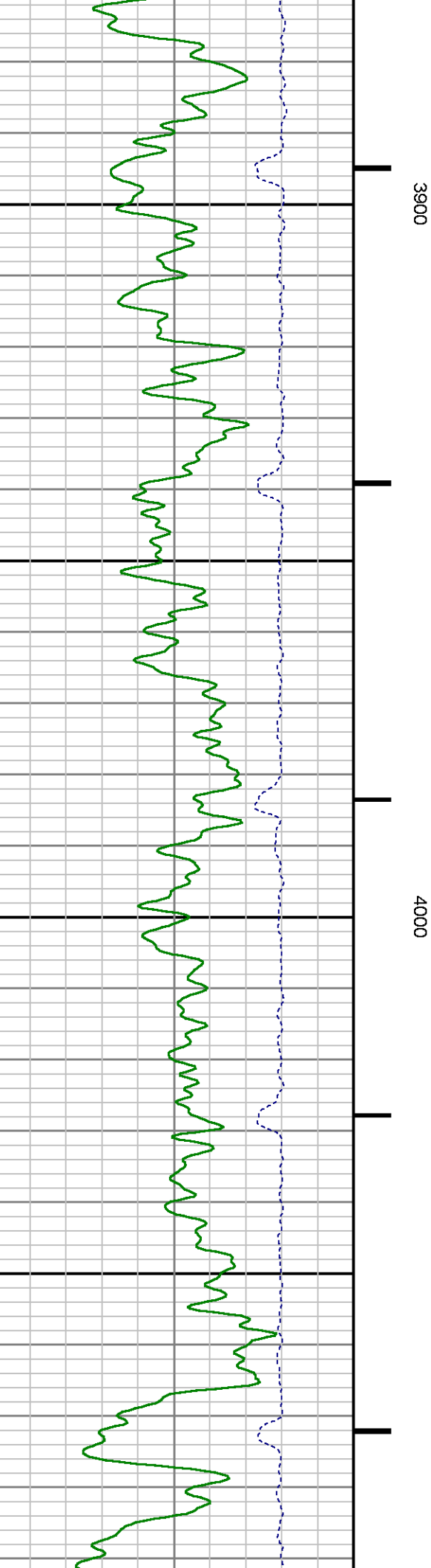
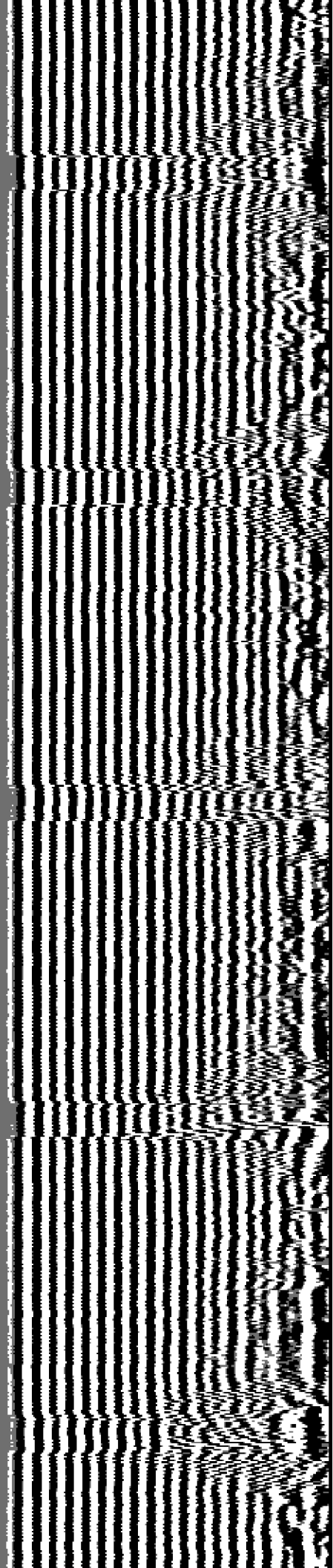


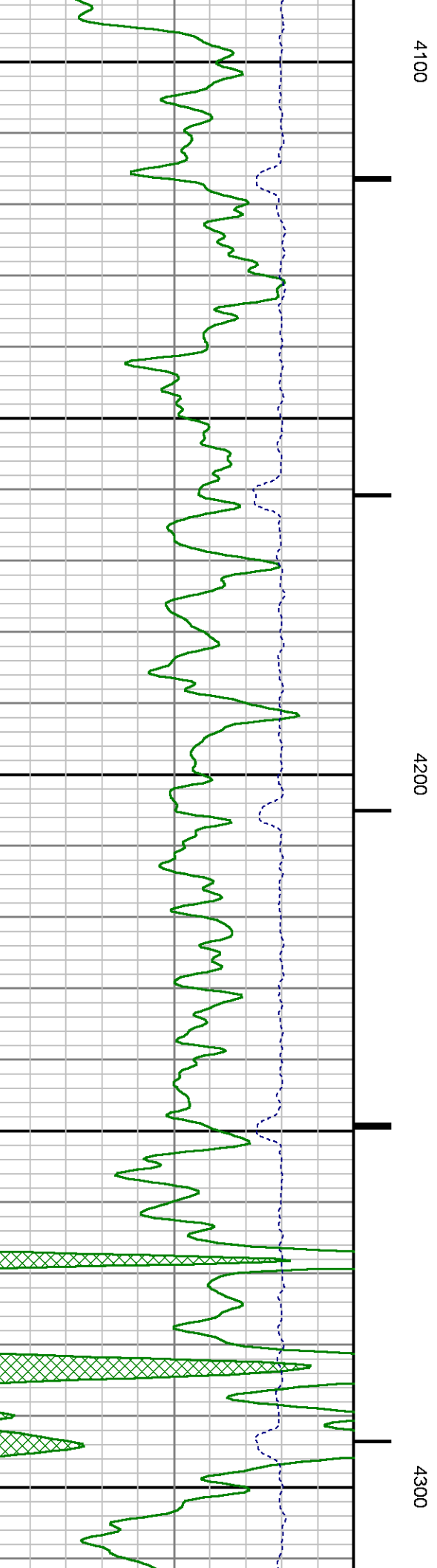
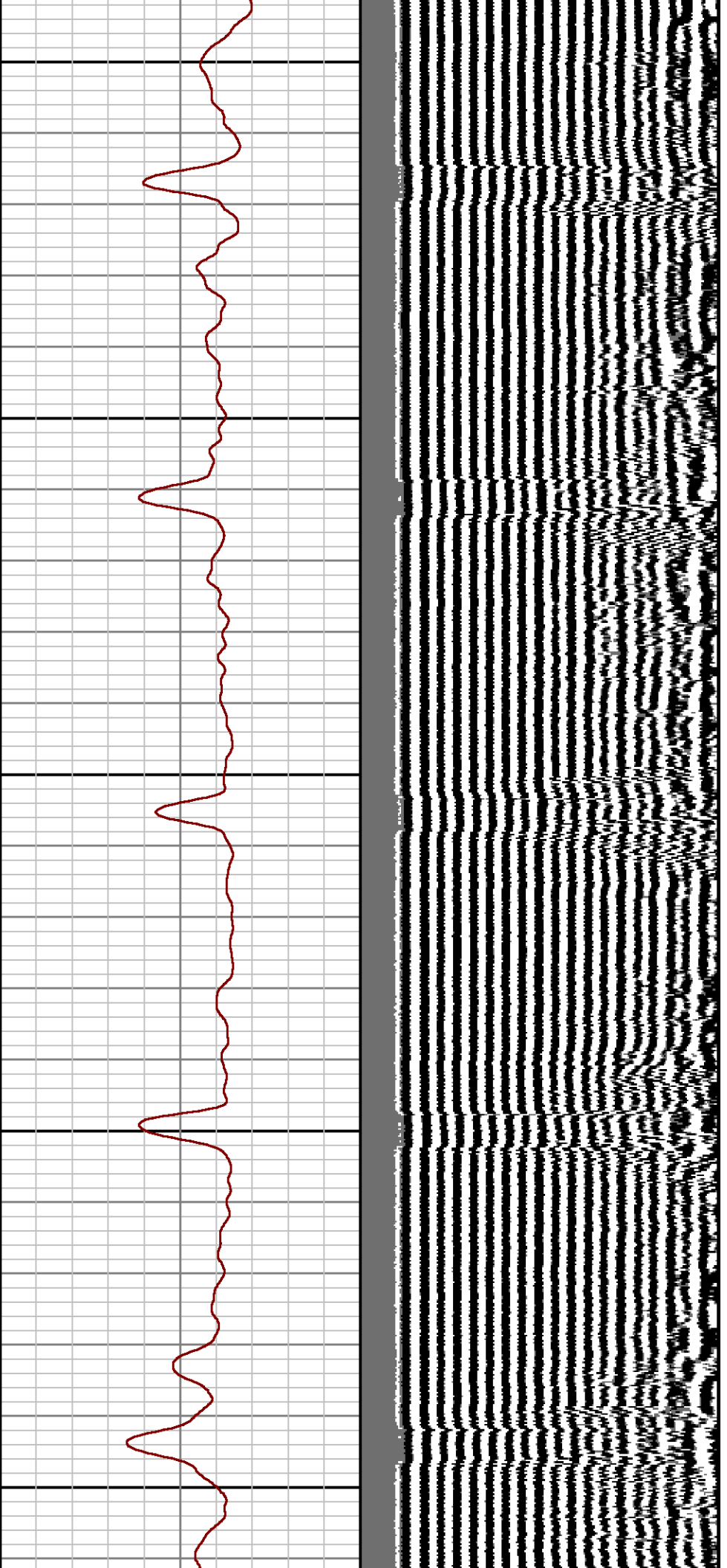
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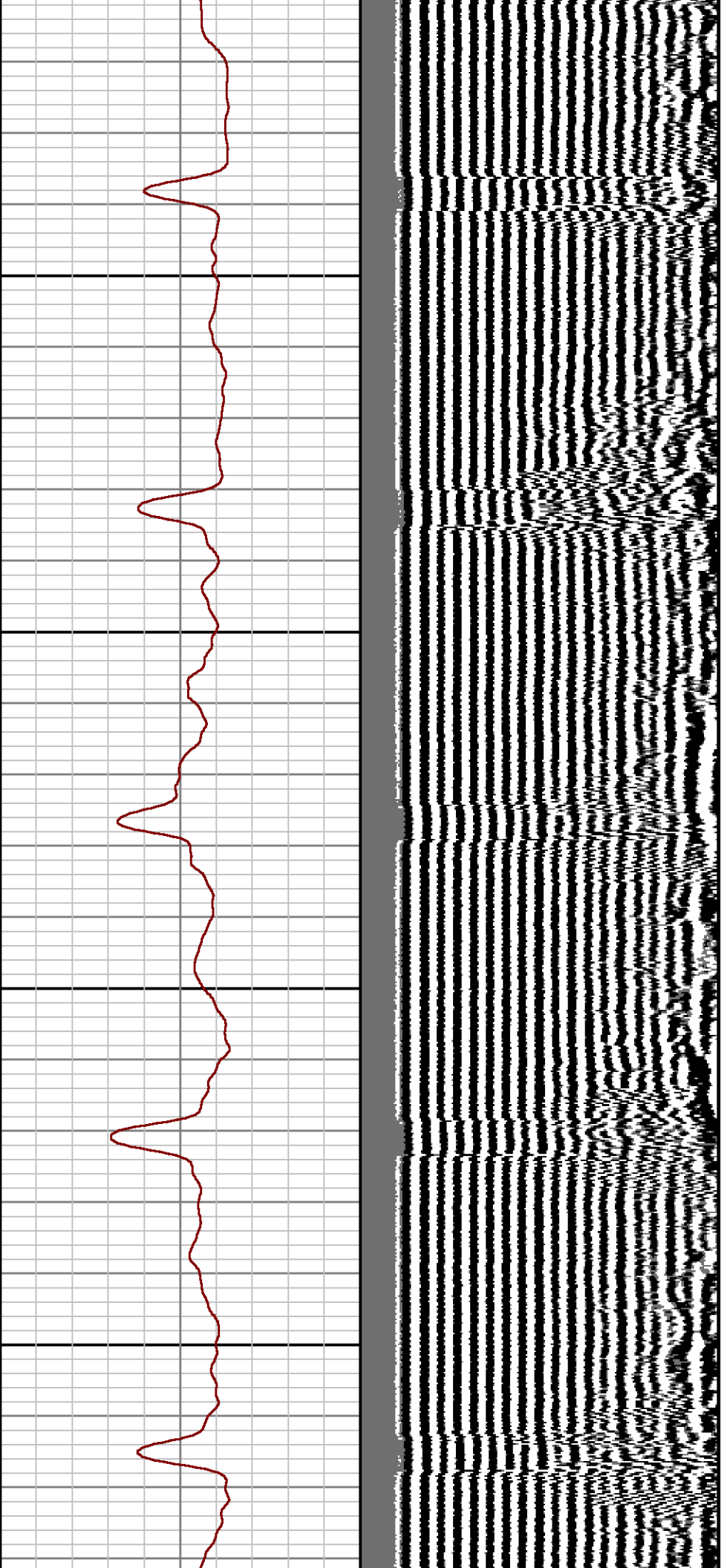
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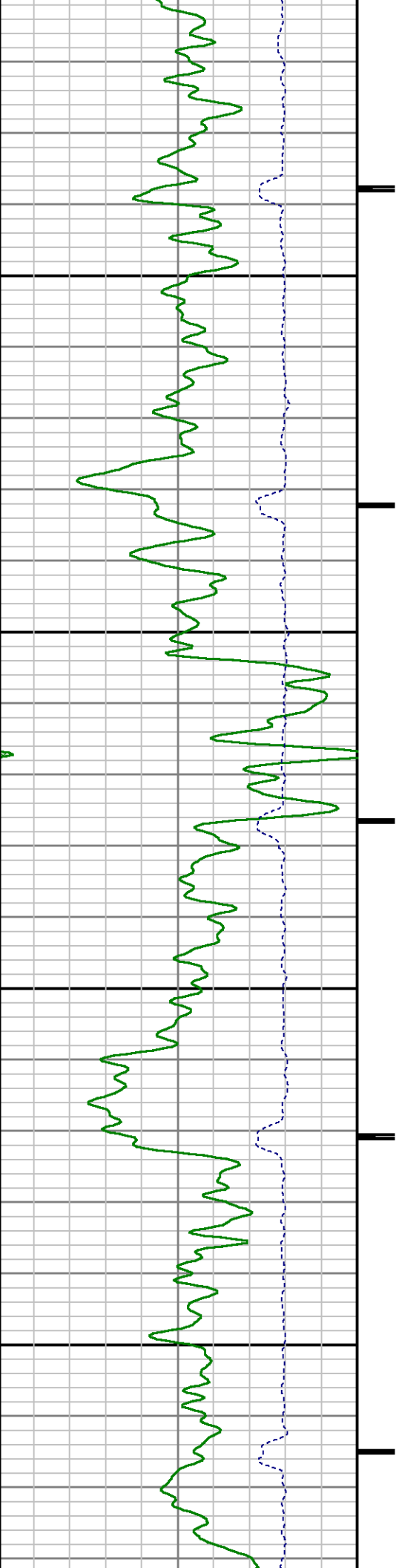


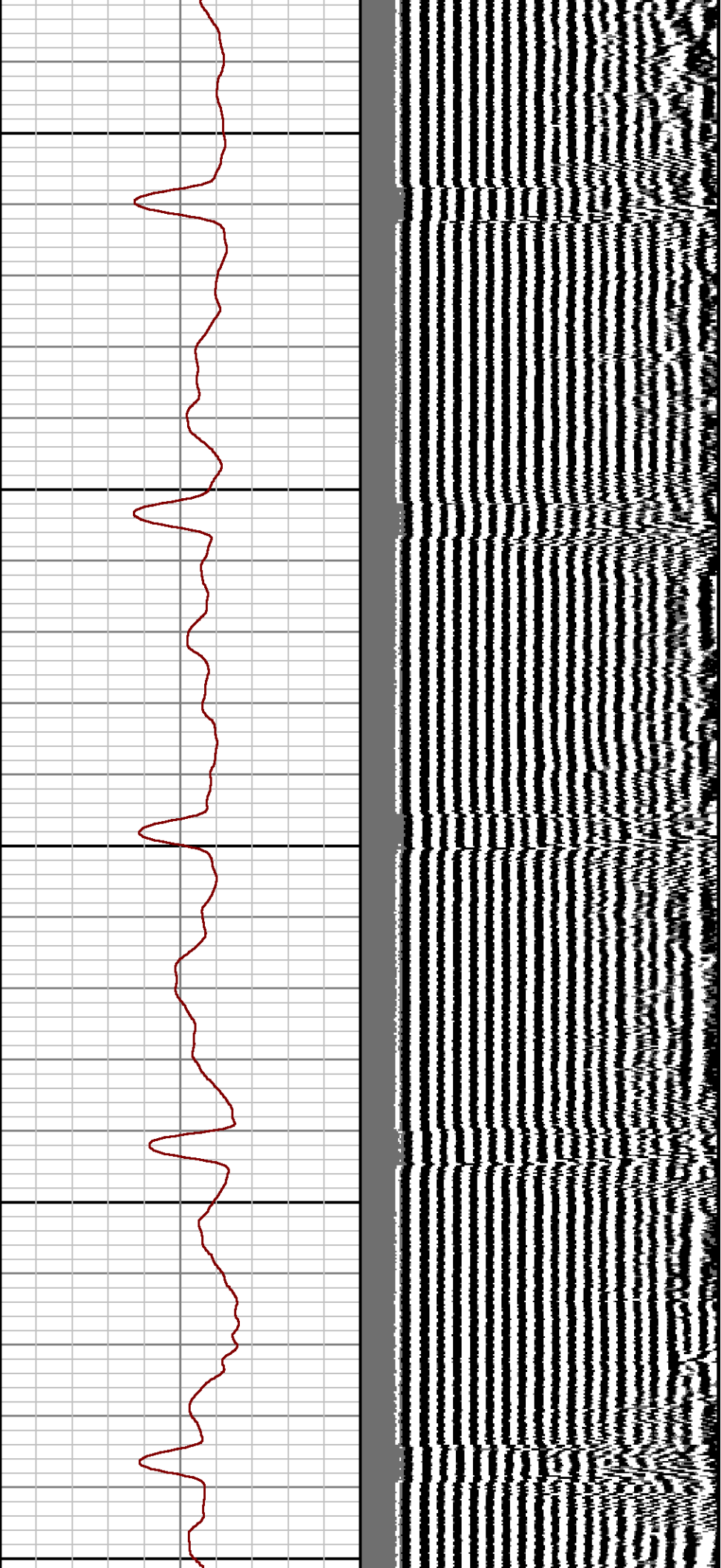




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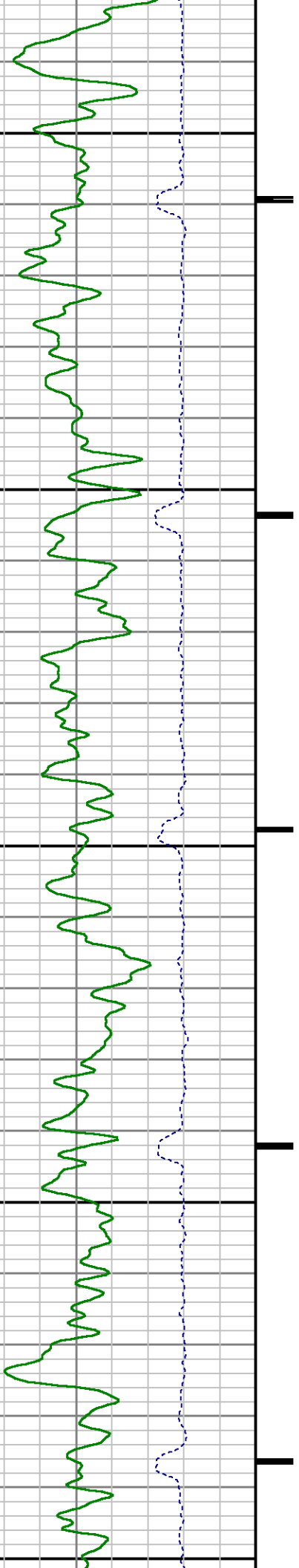
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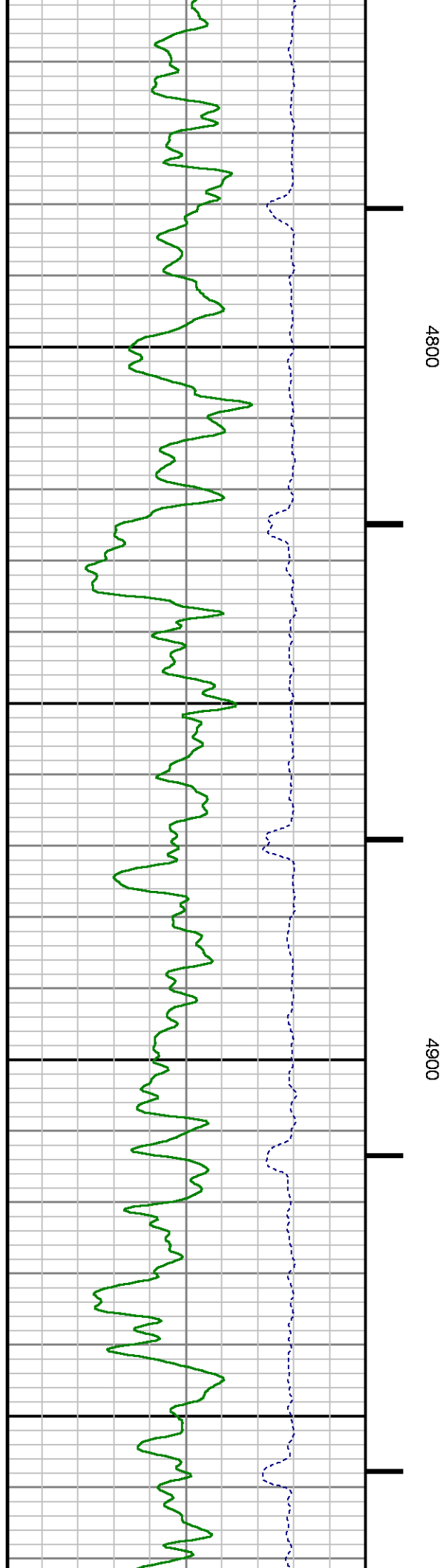
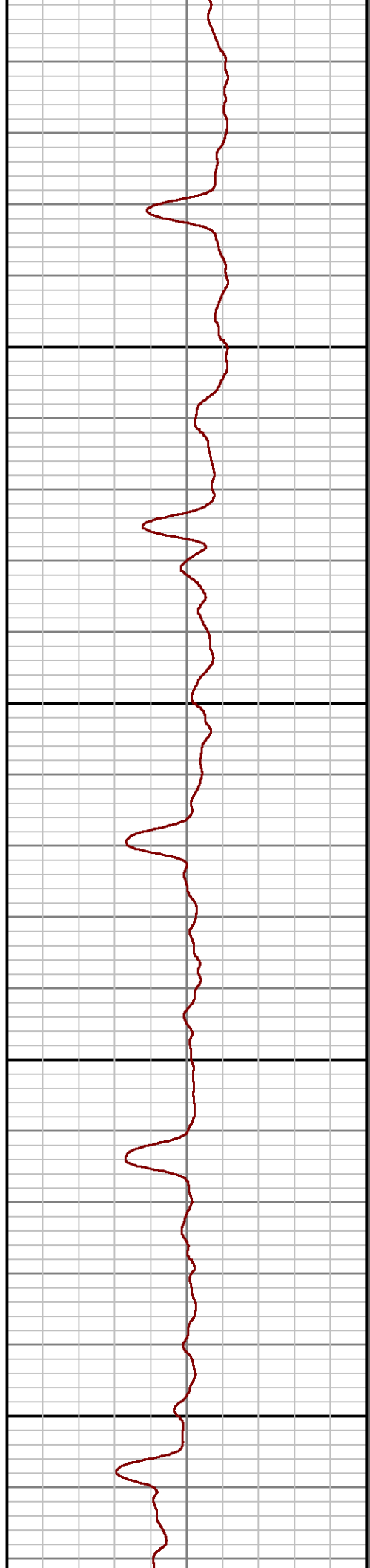
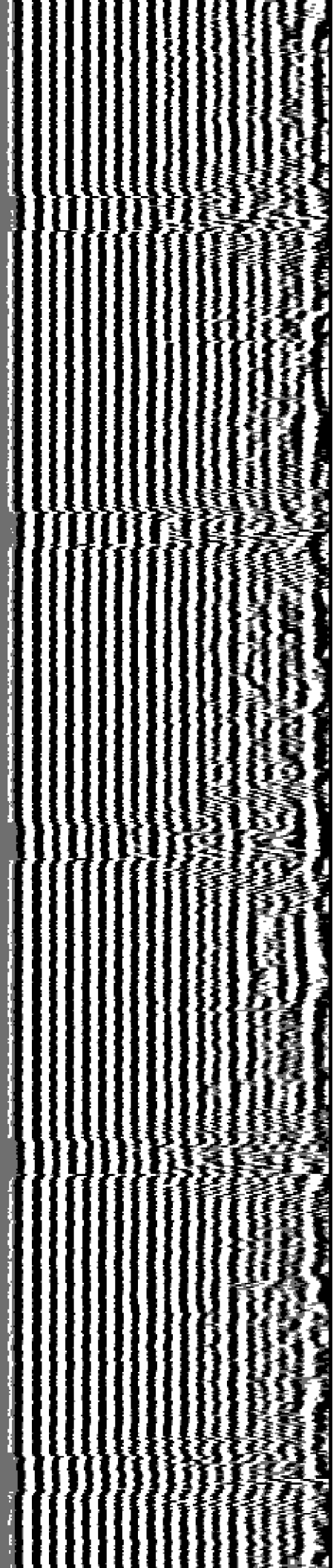


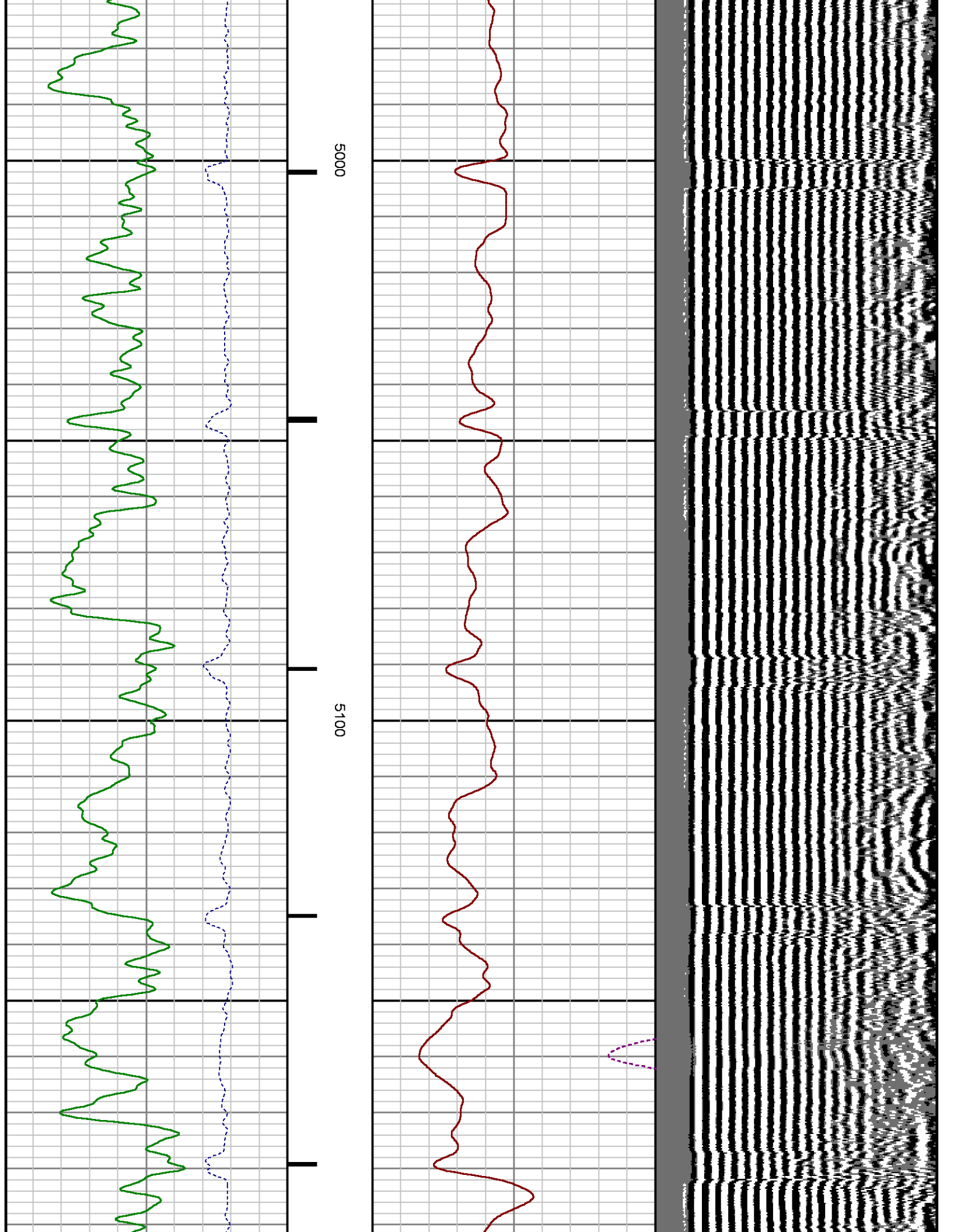


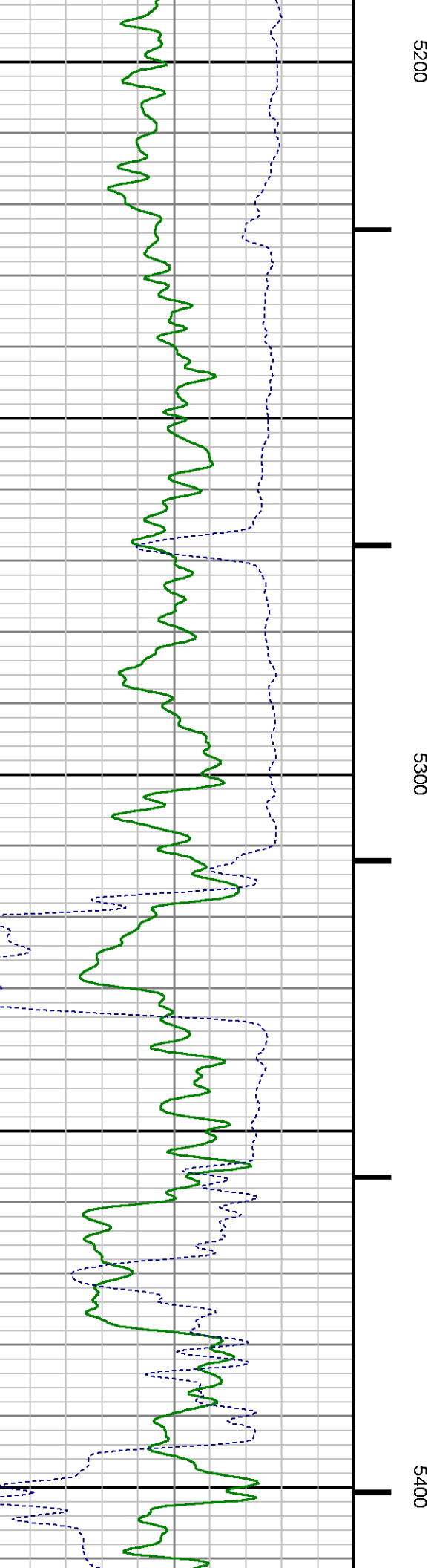
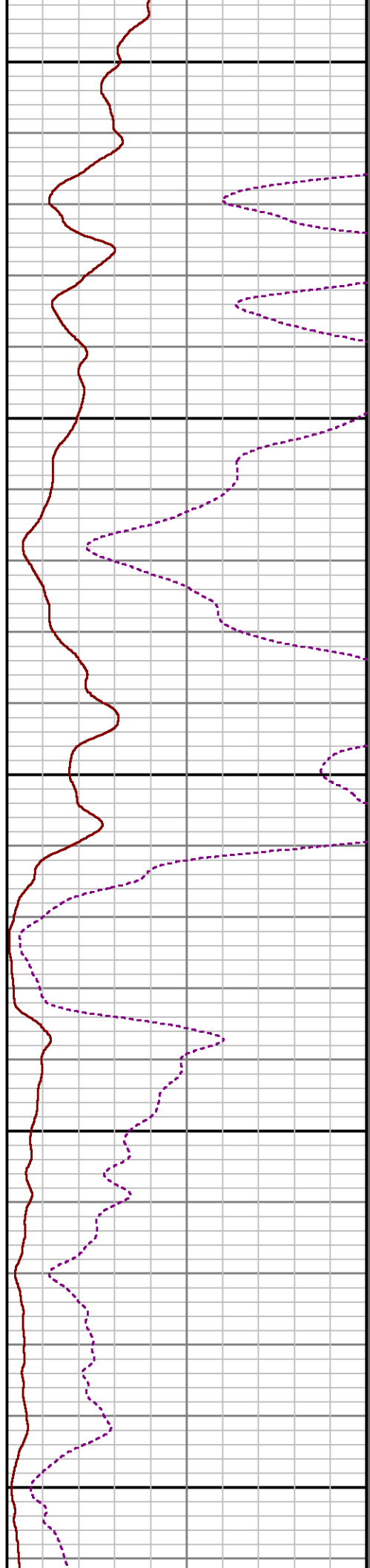
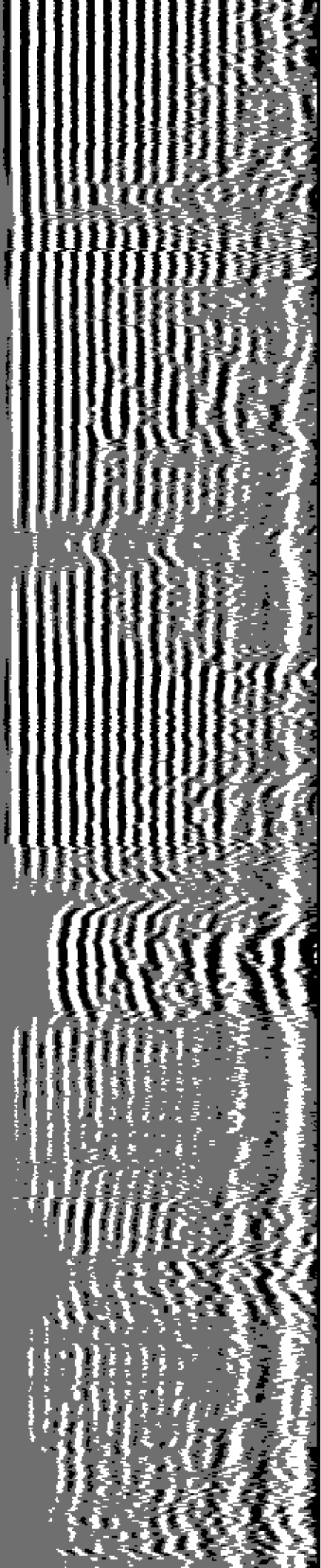
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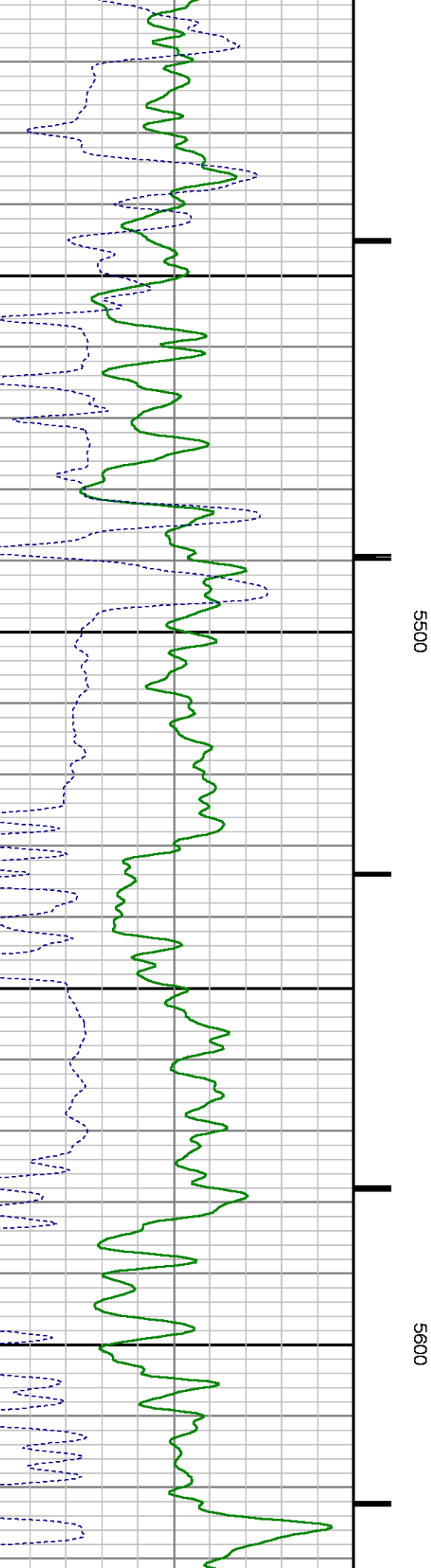
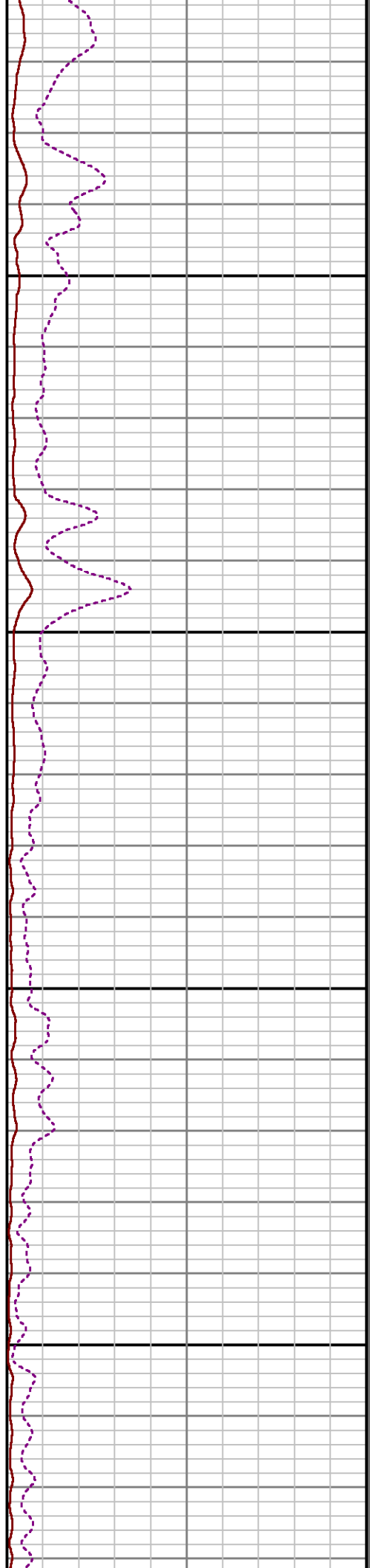
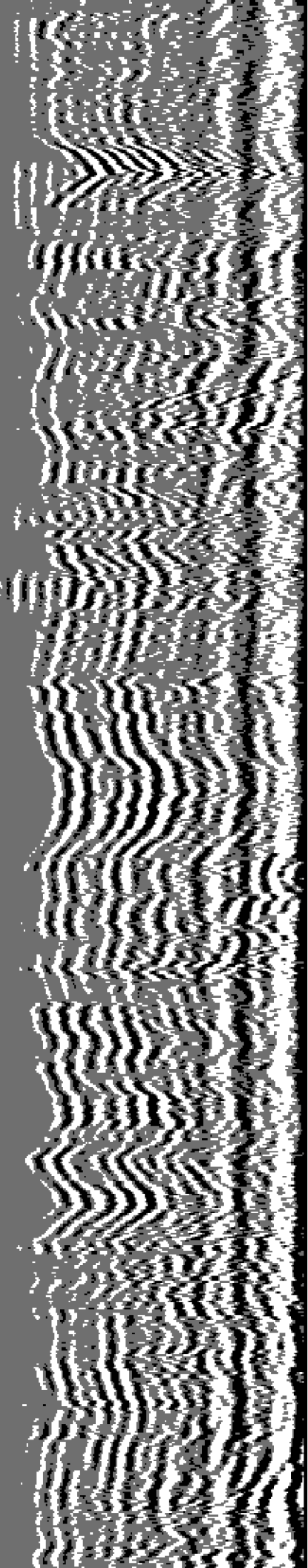
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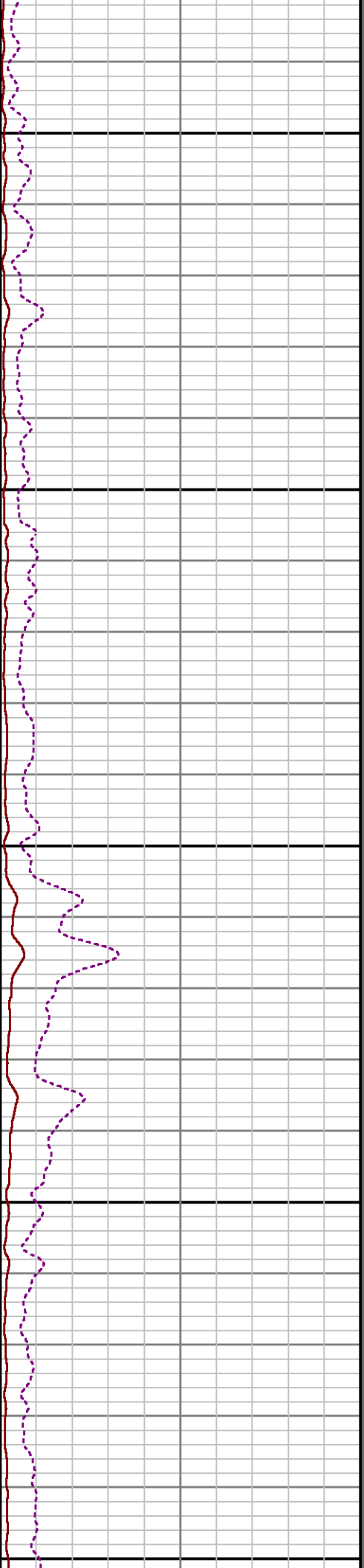
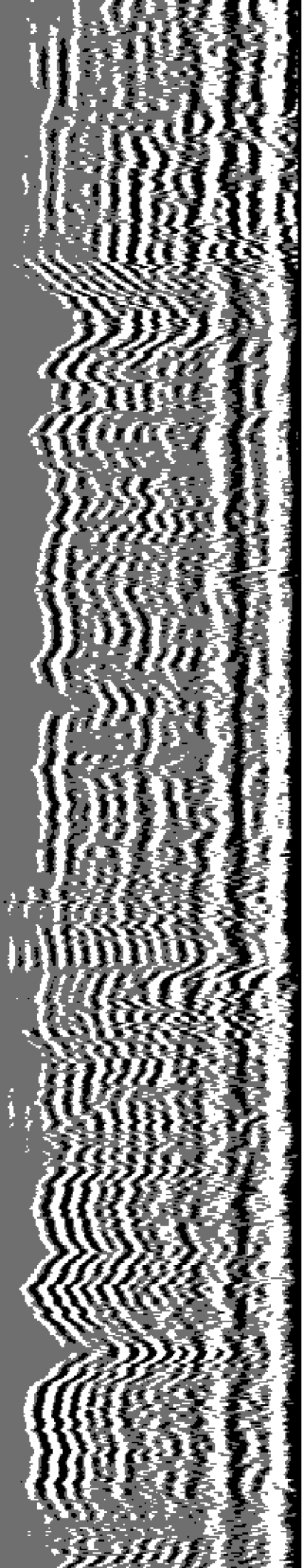






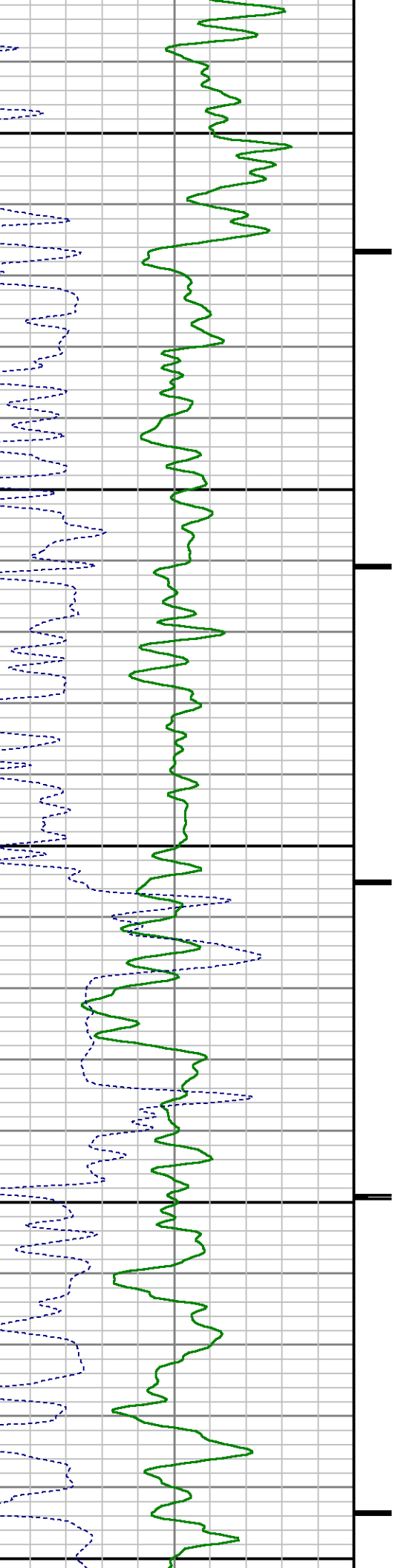


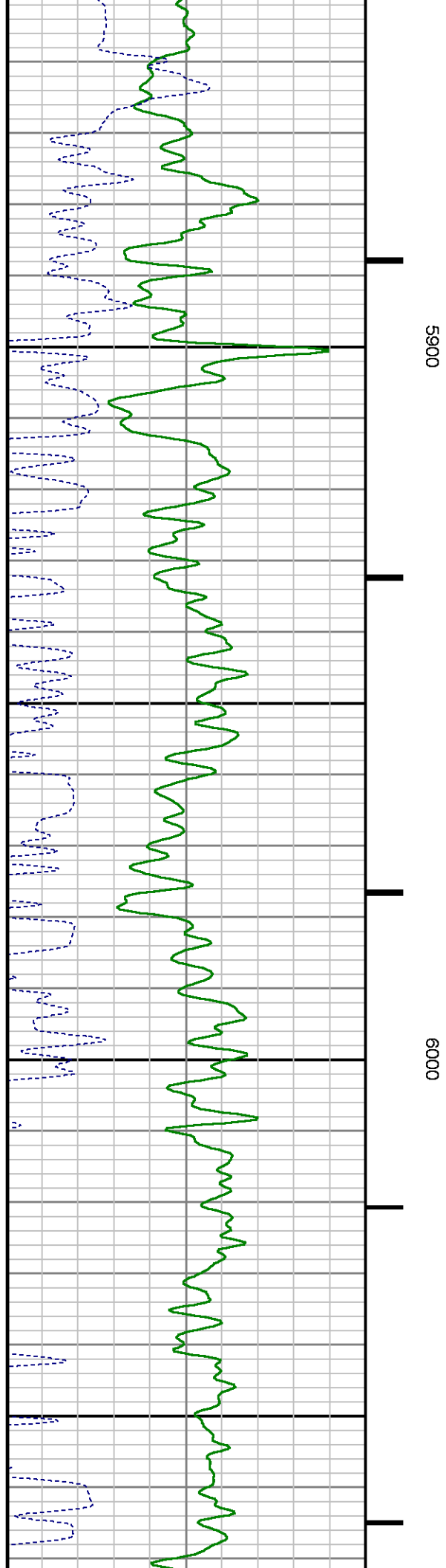
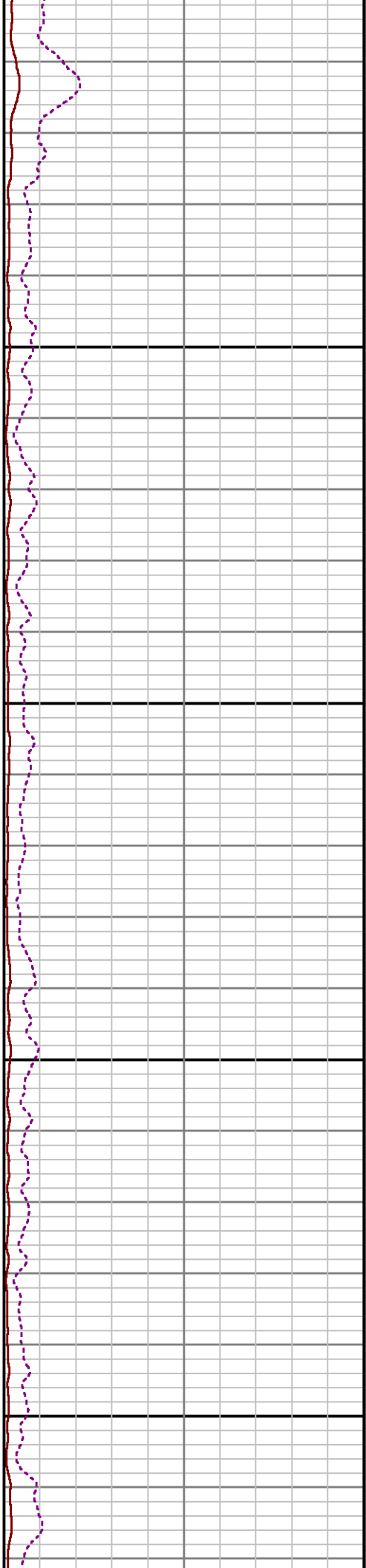
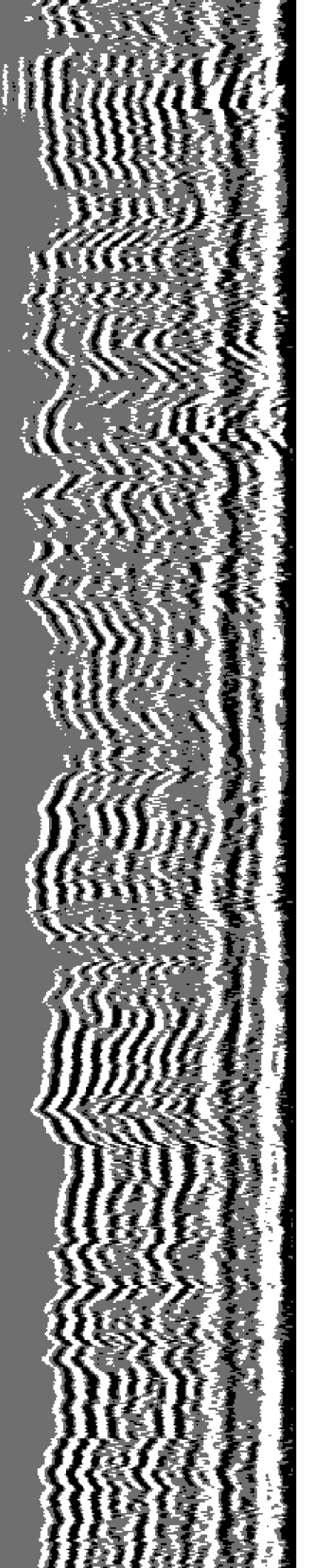


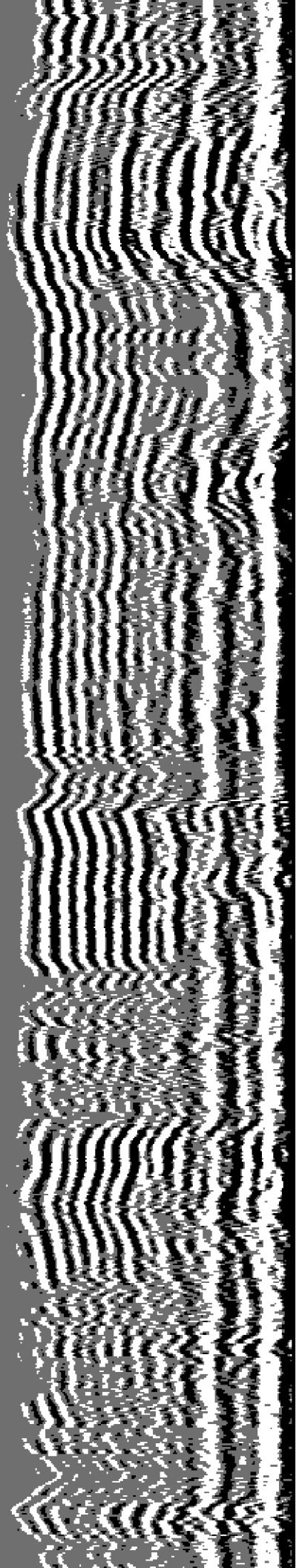


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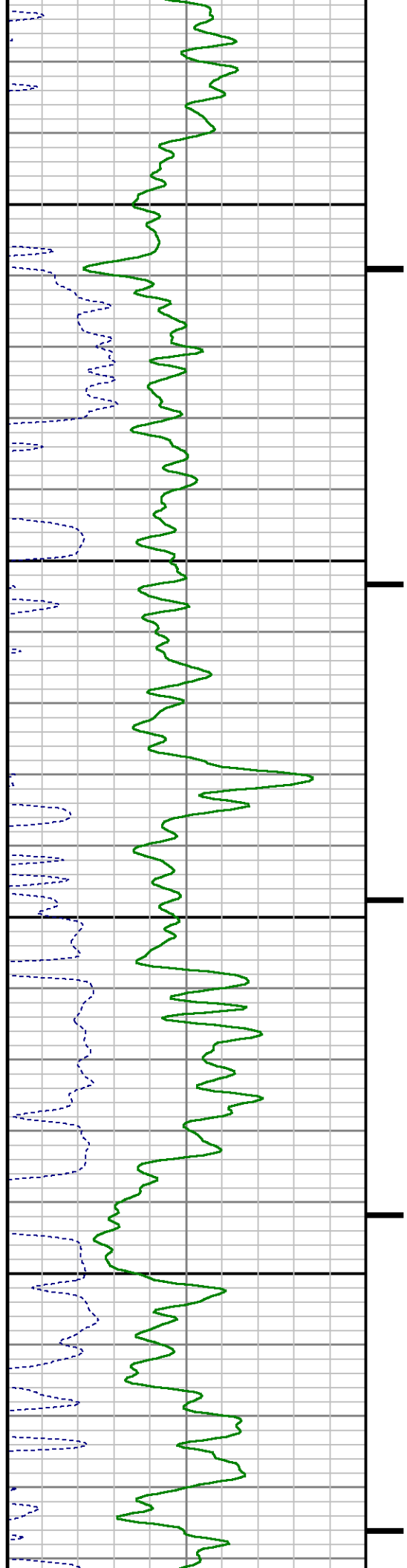


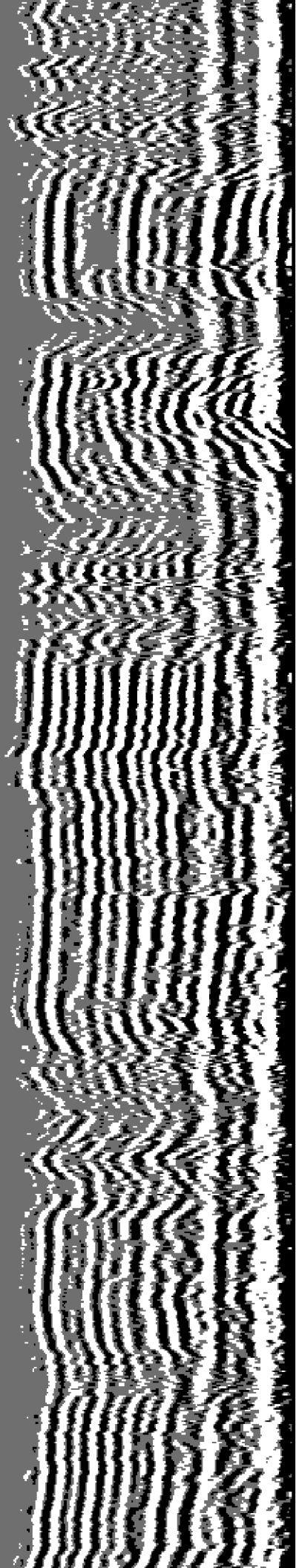




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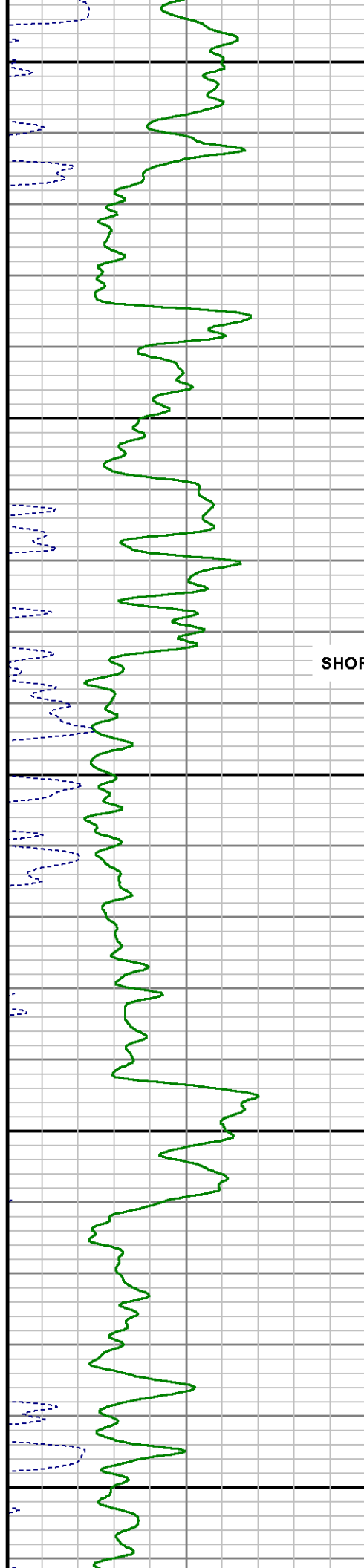


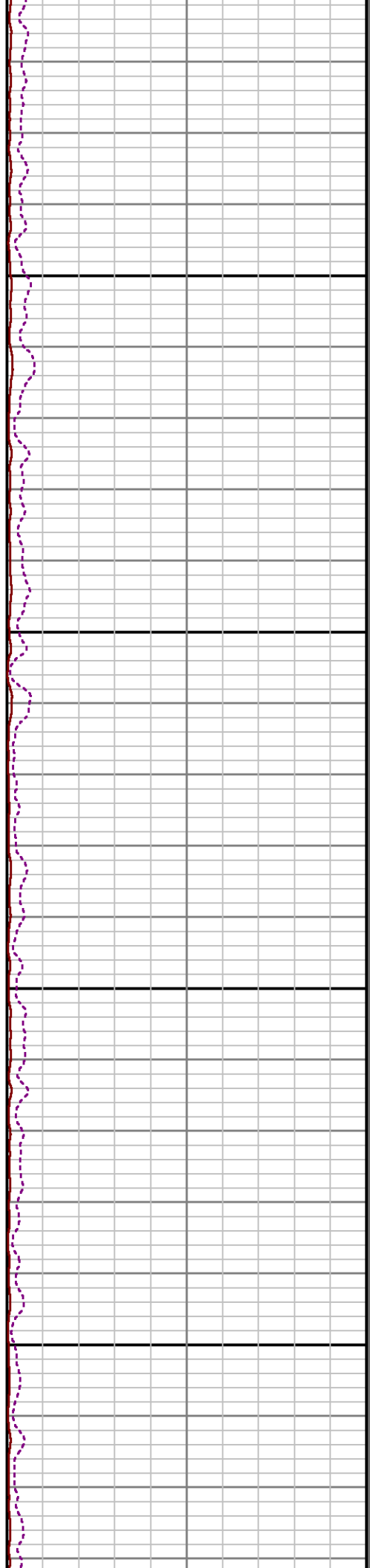
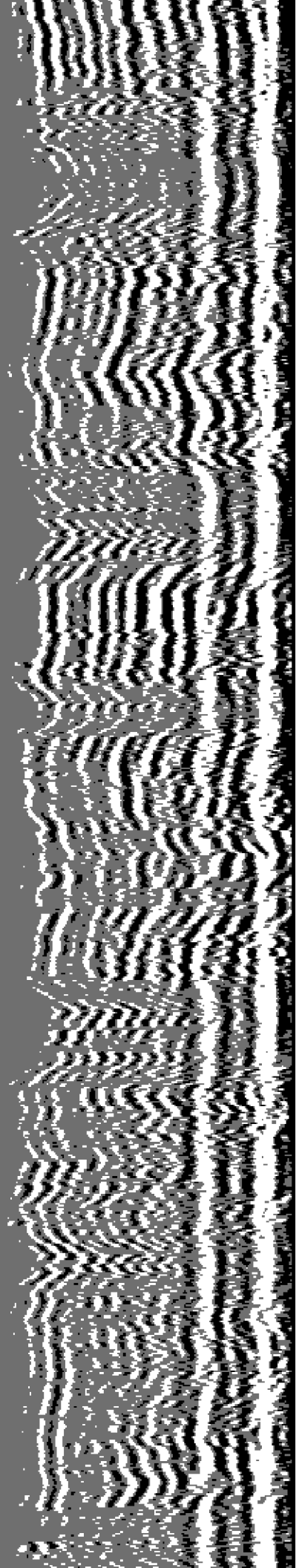
SHORT JOINT

6300

6400

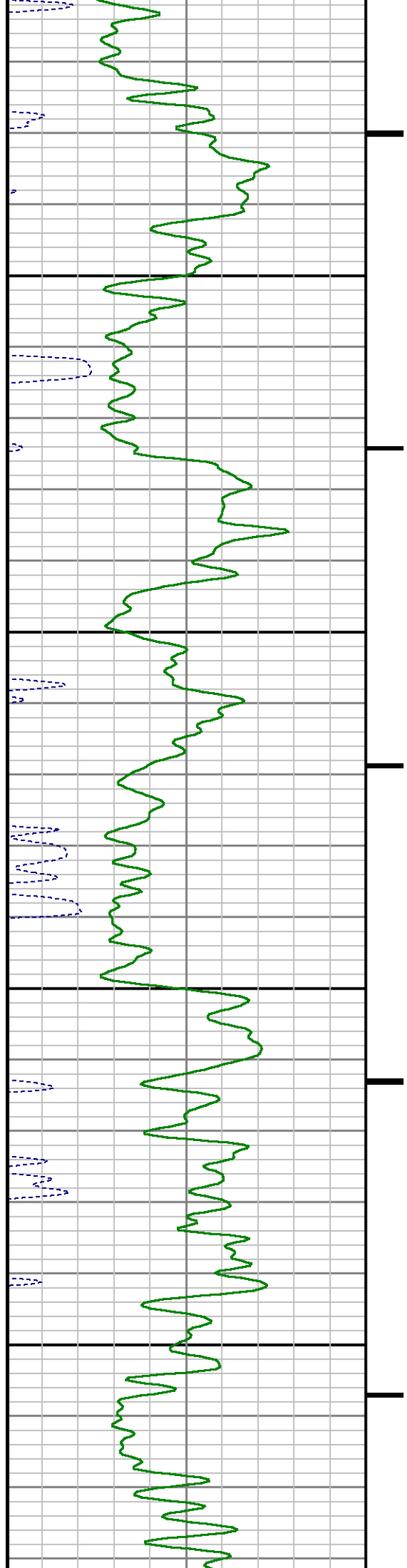
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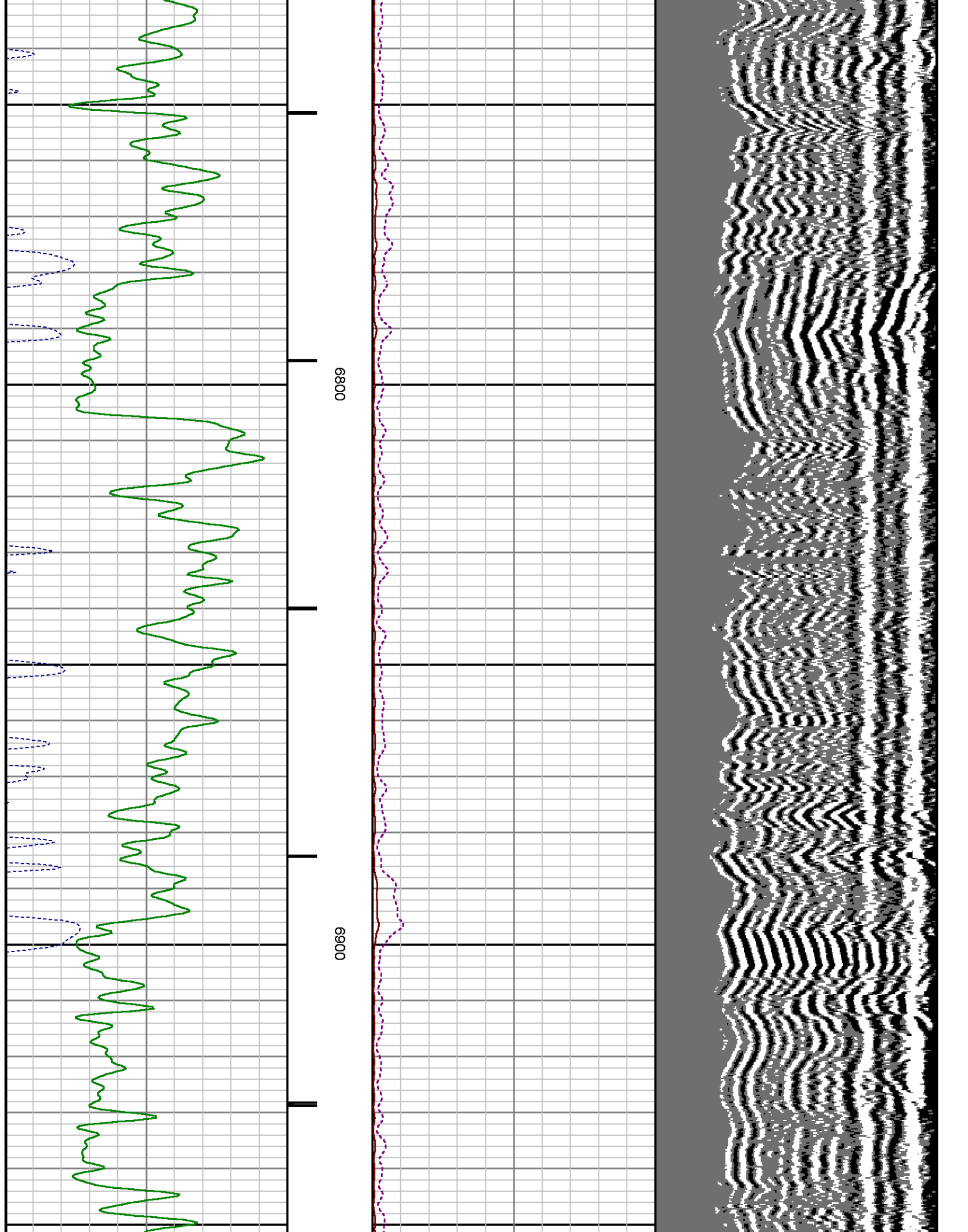


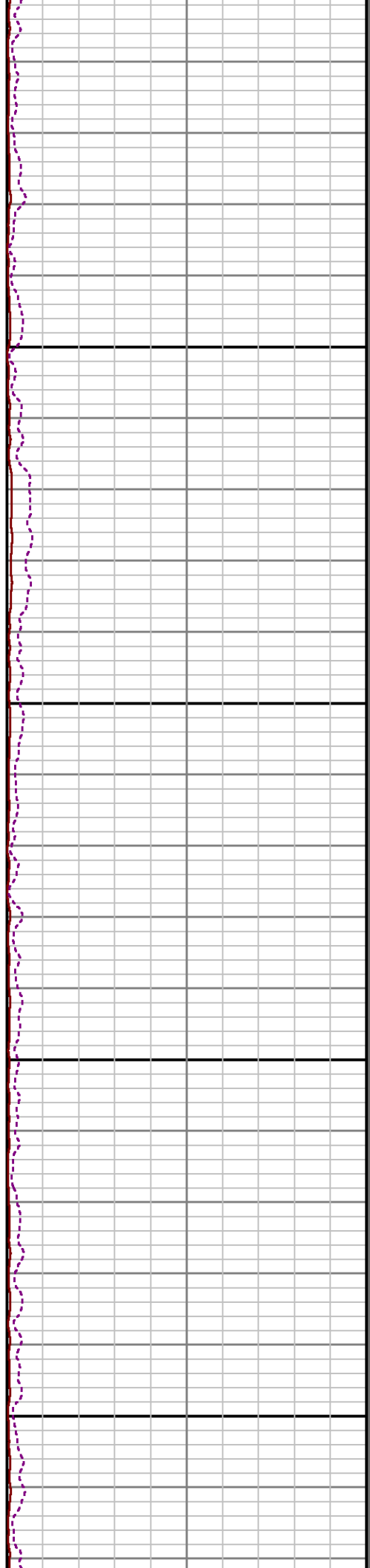
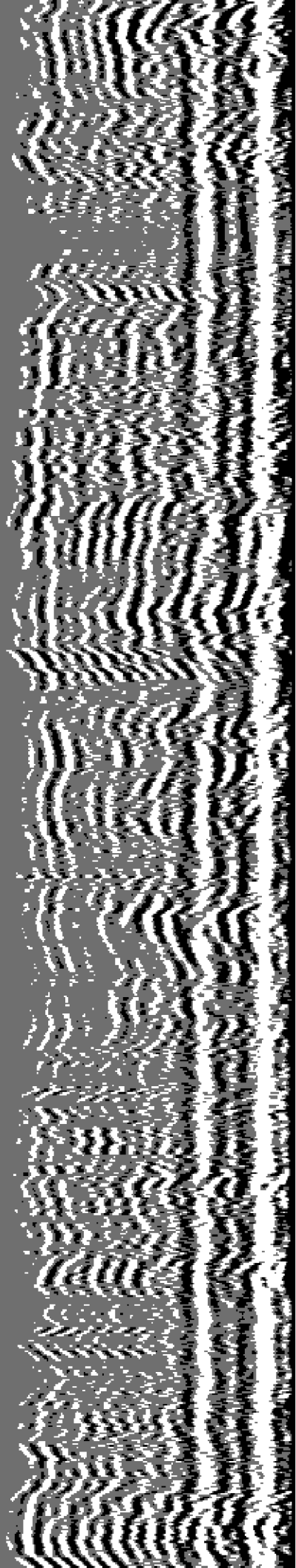


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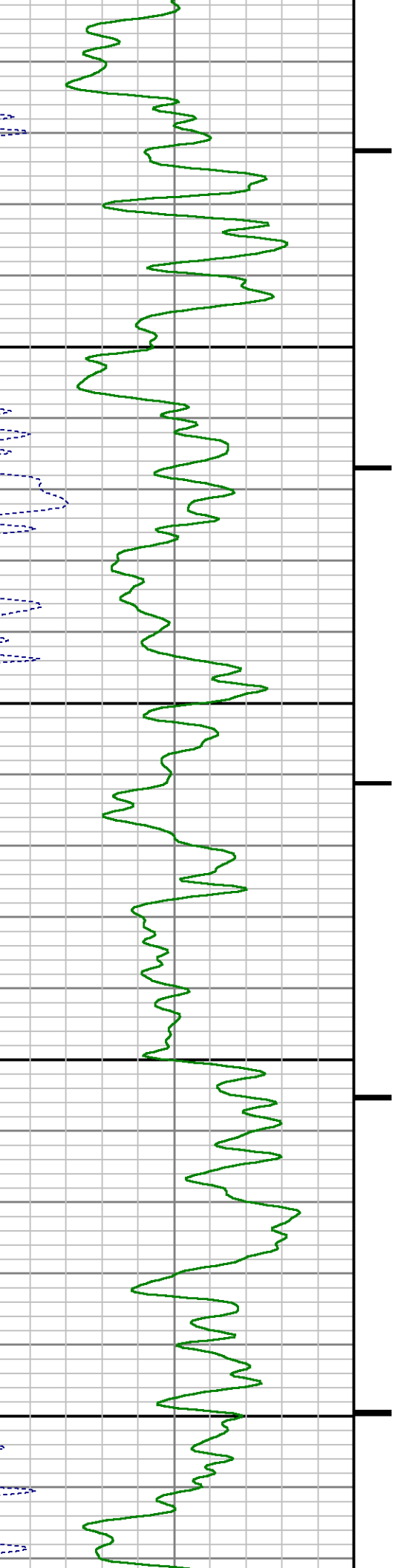


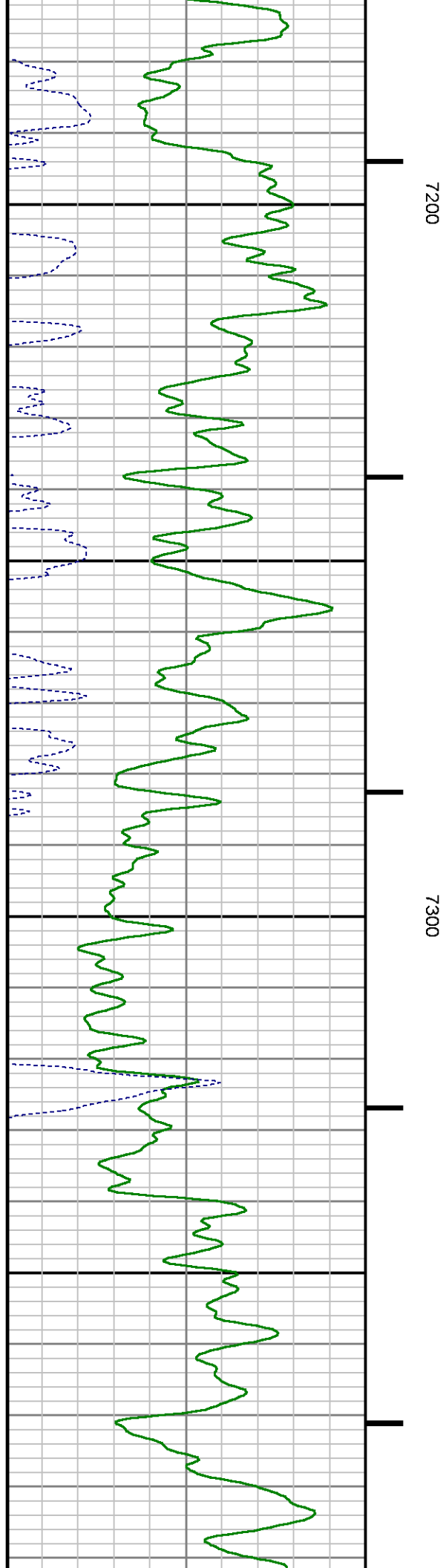
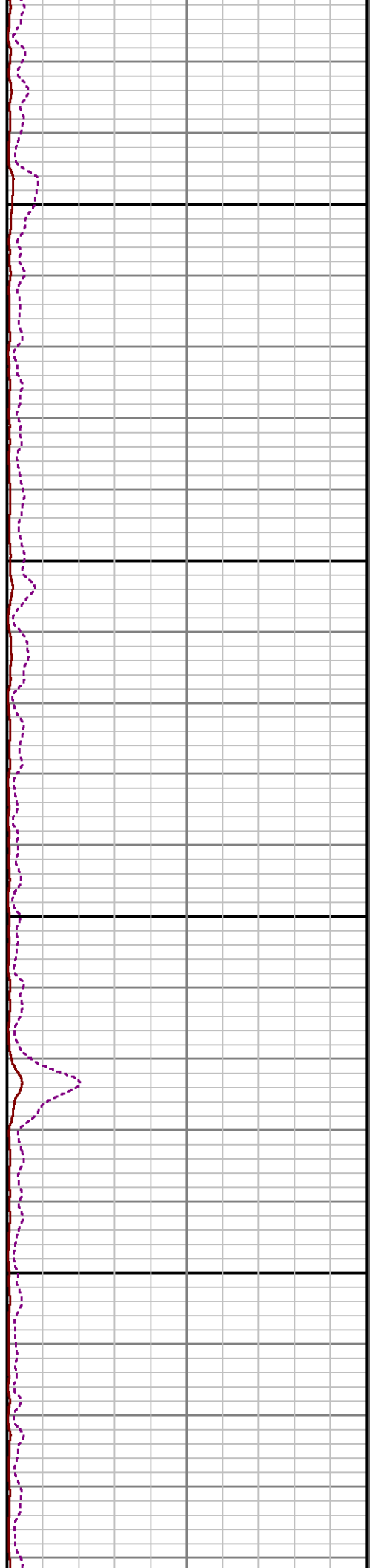
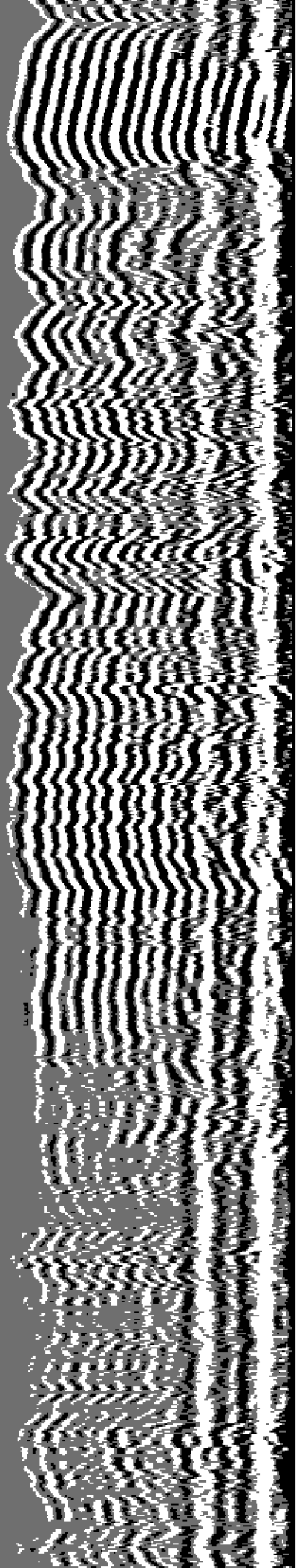


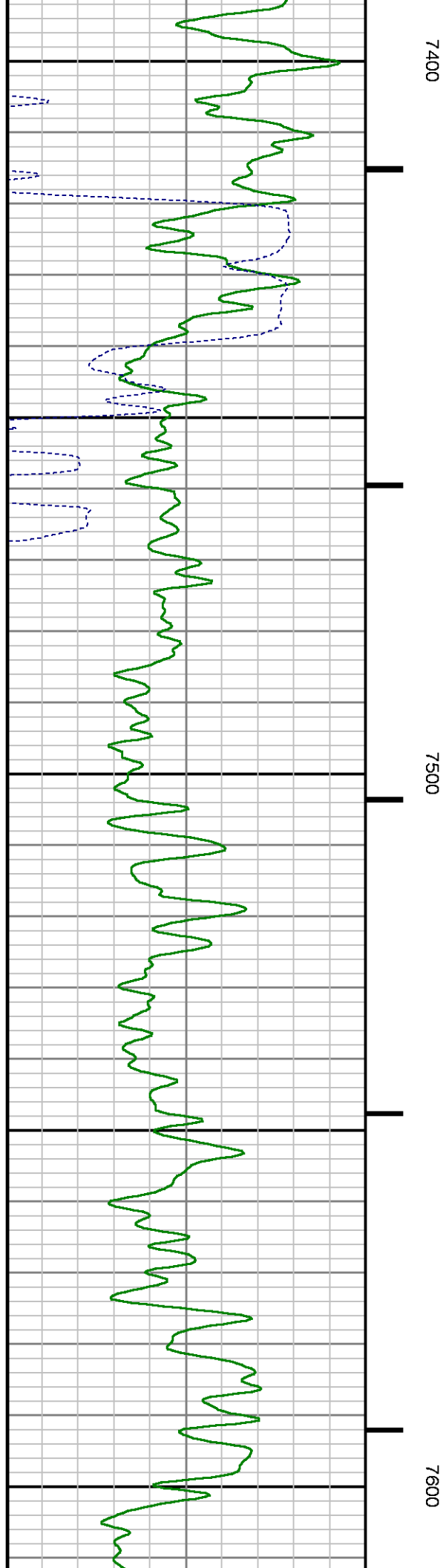
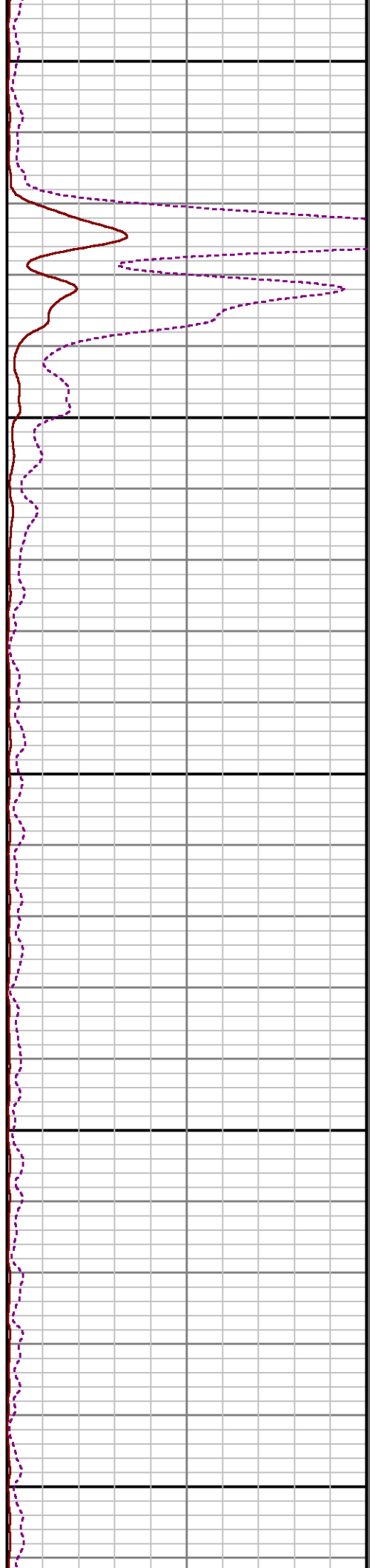
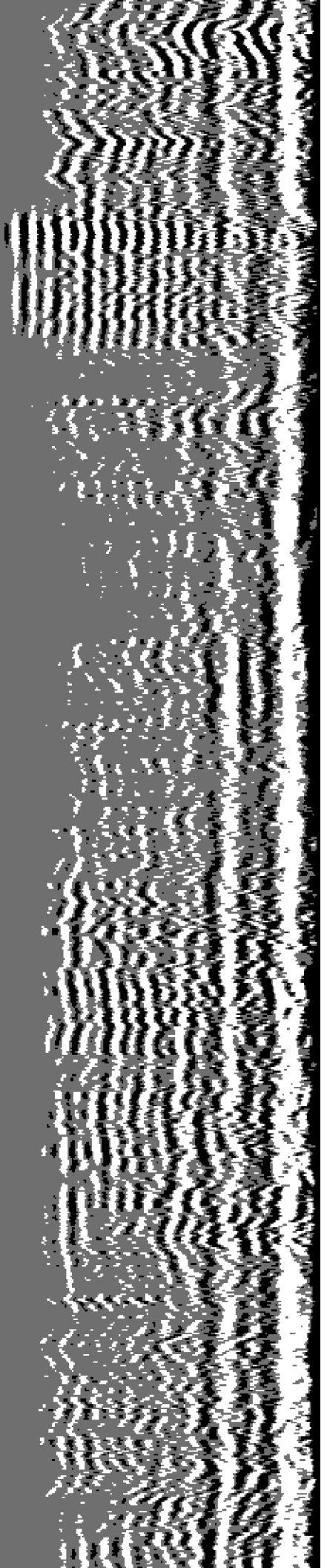


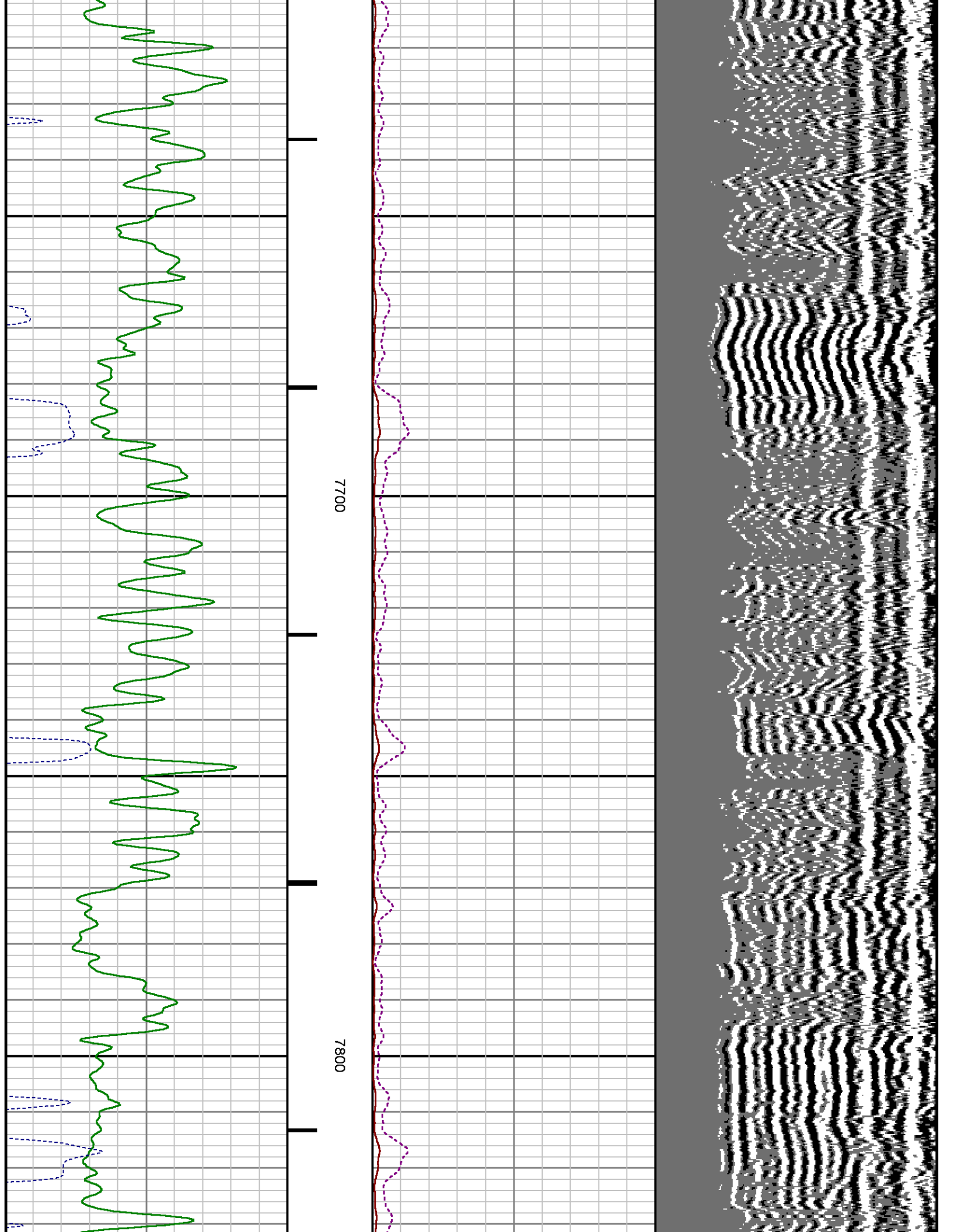
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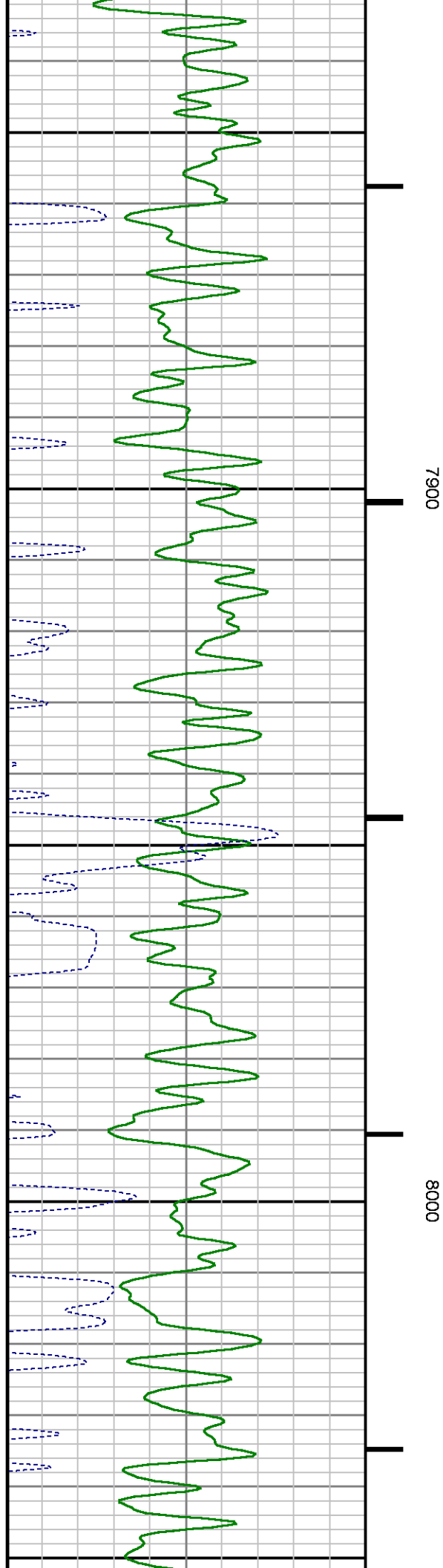
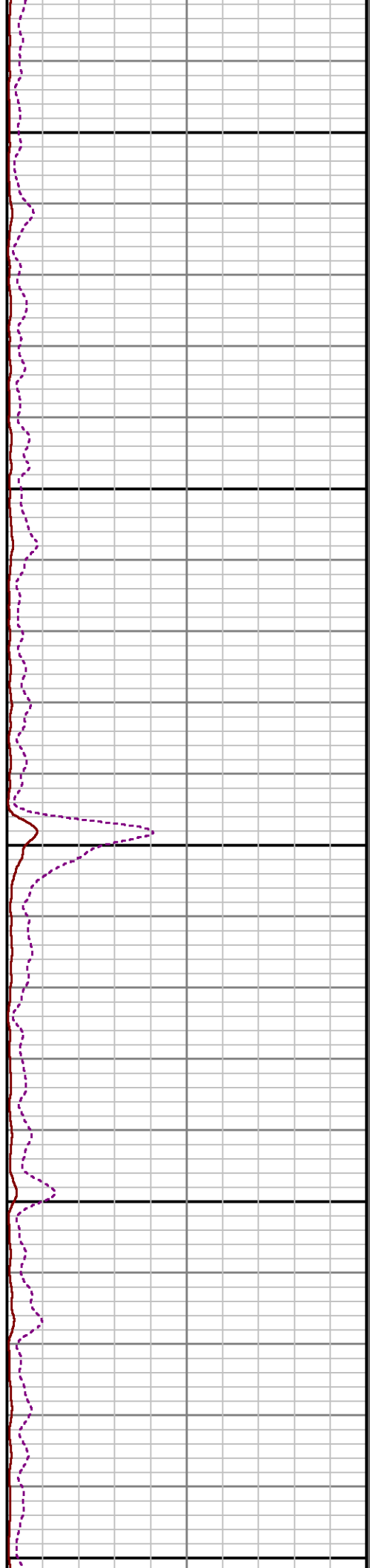
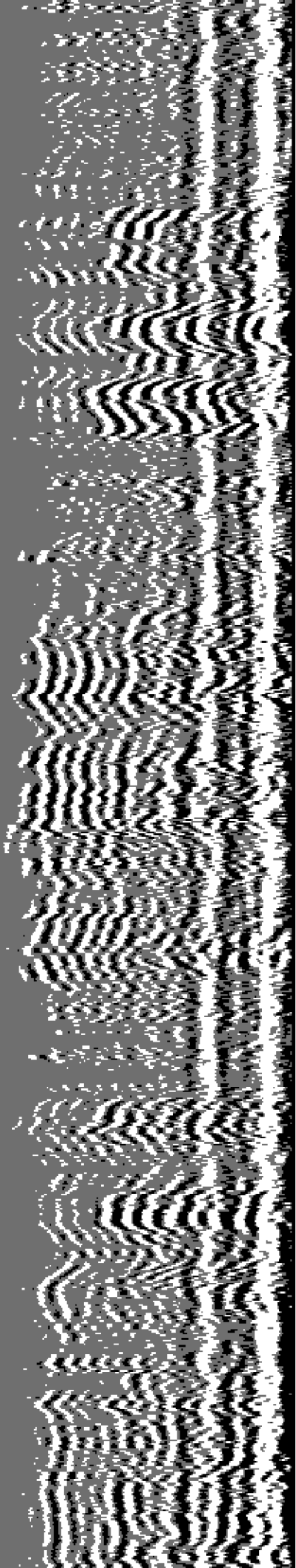
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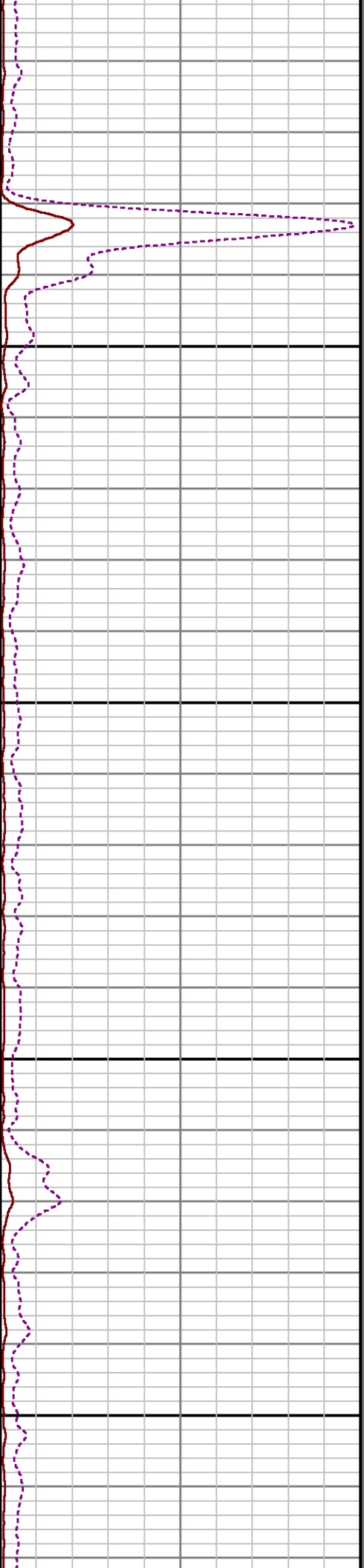
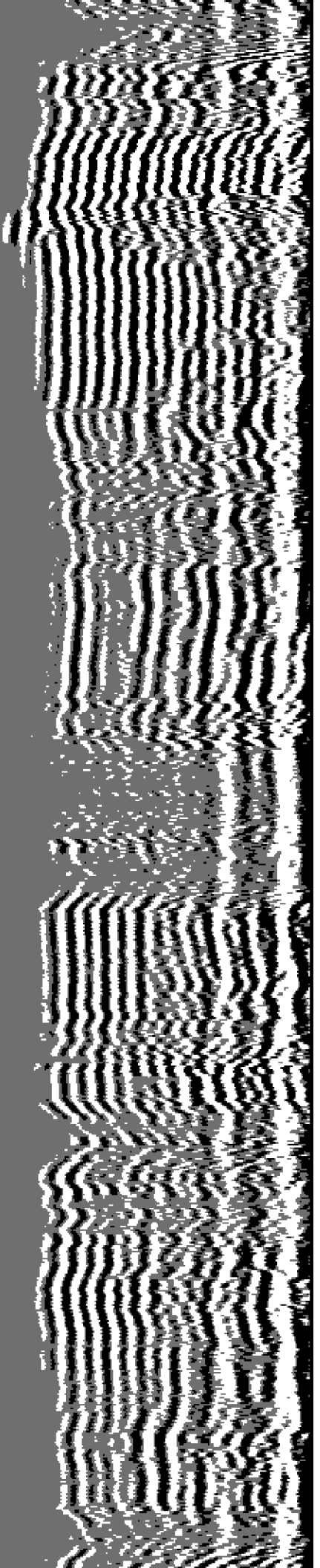






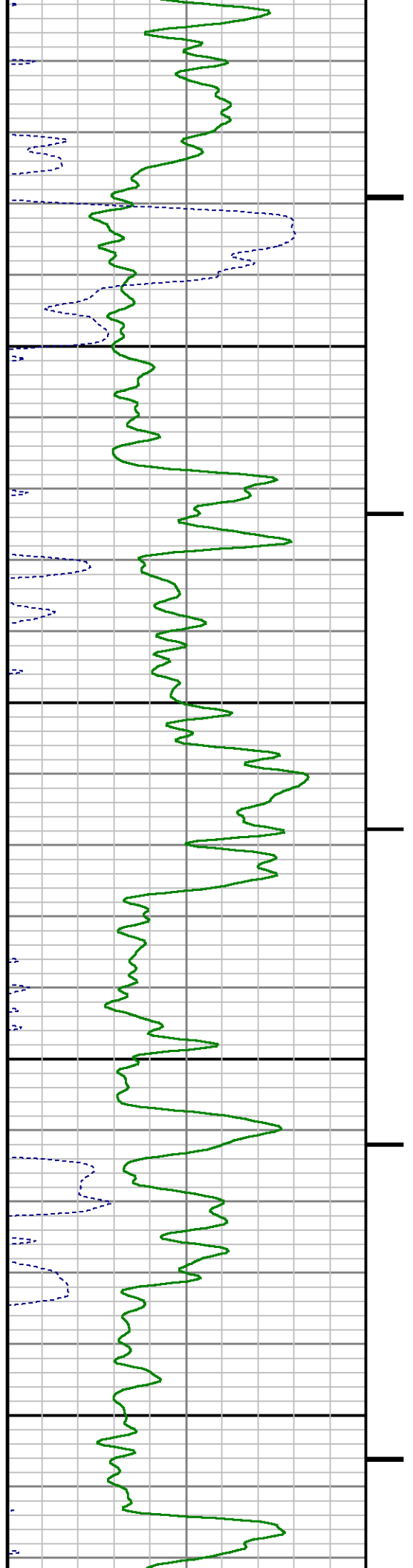


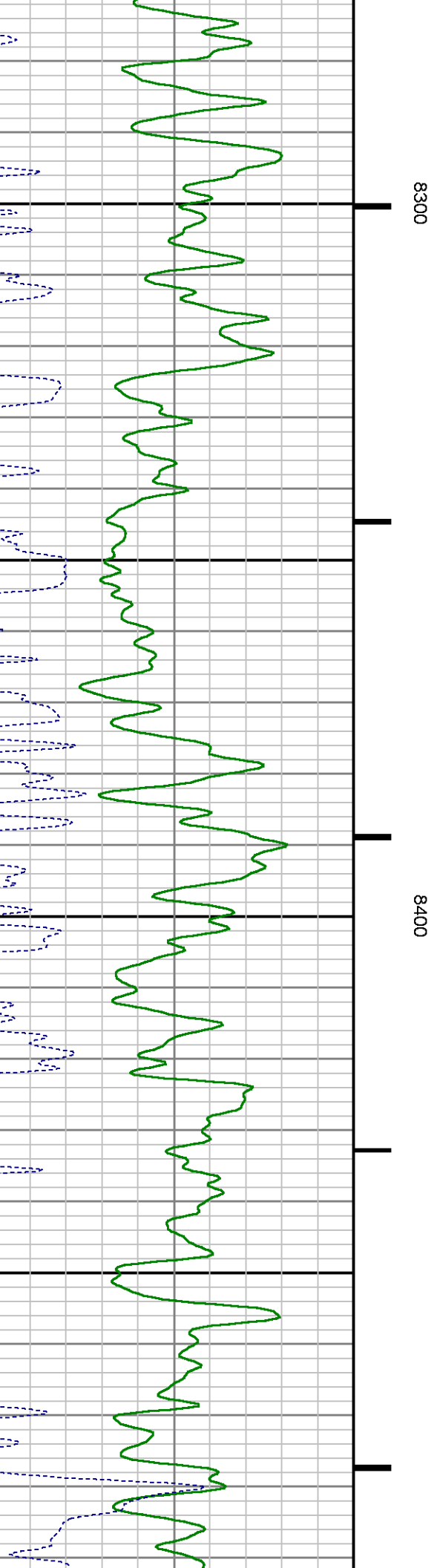
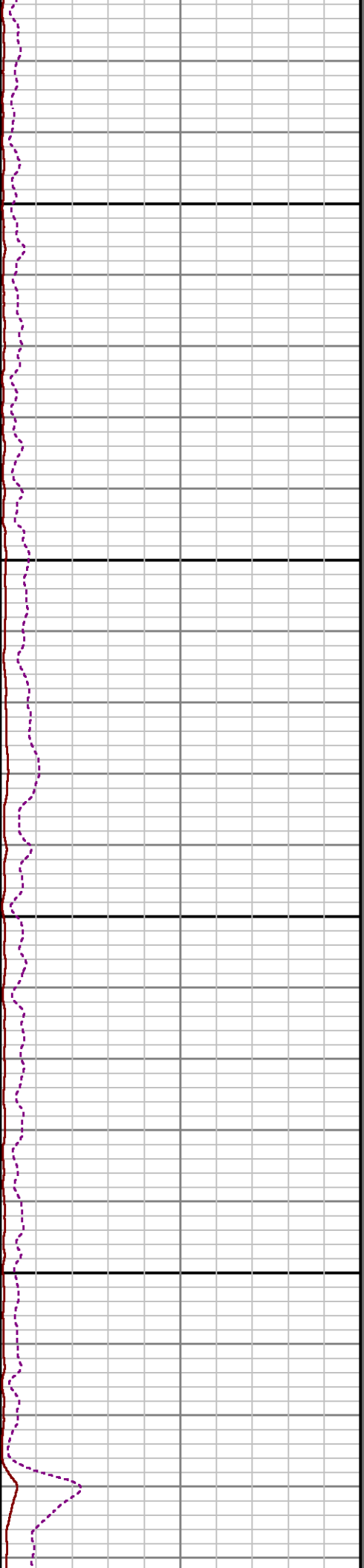
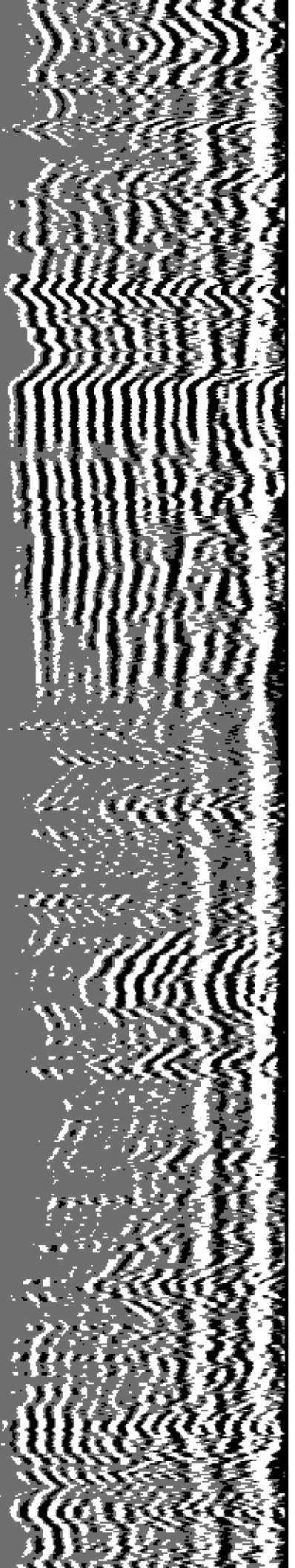


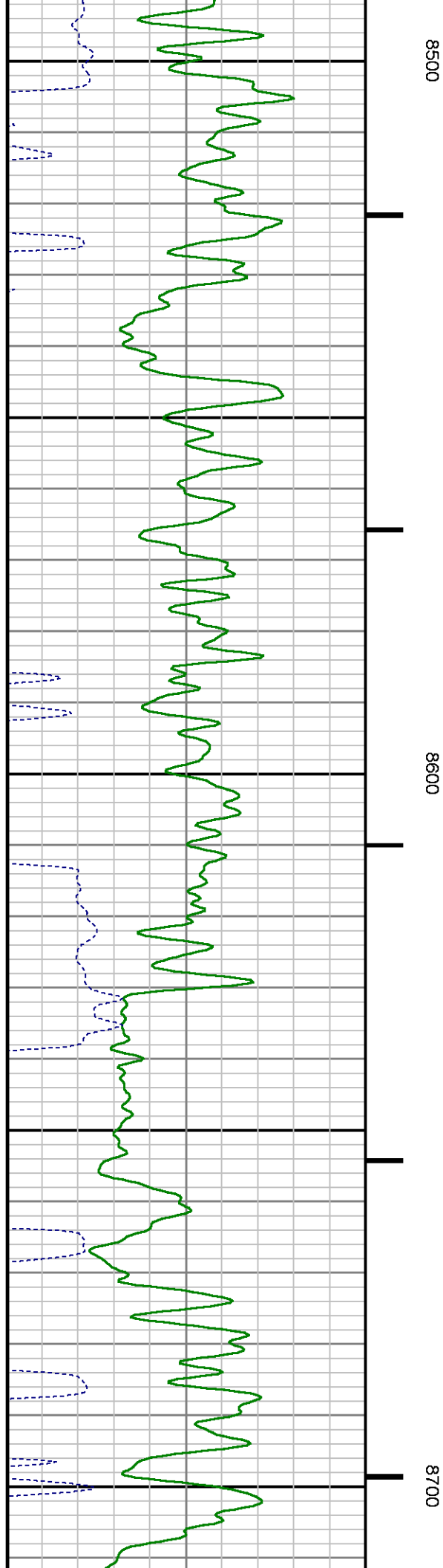
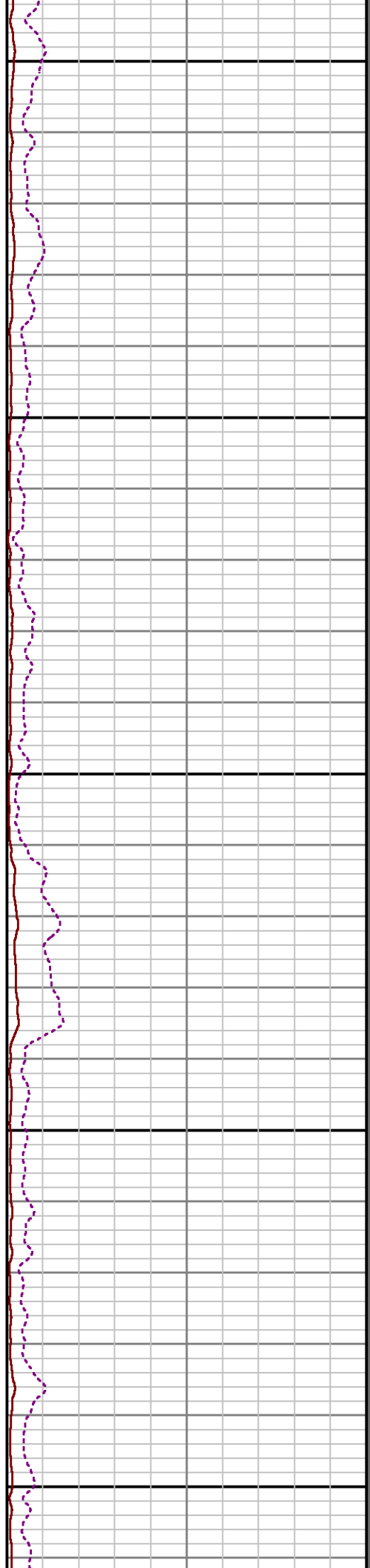
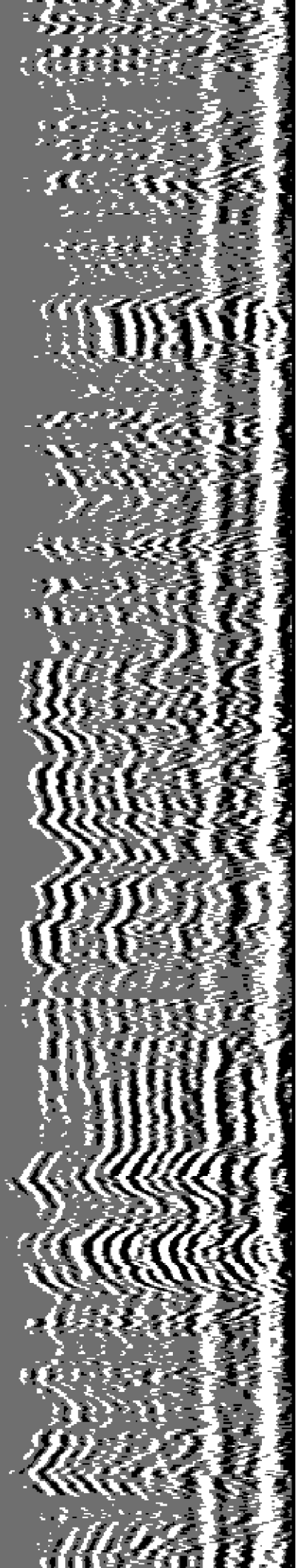


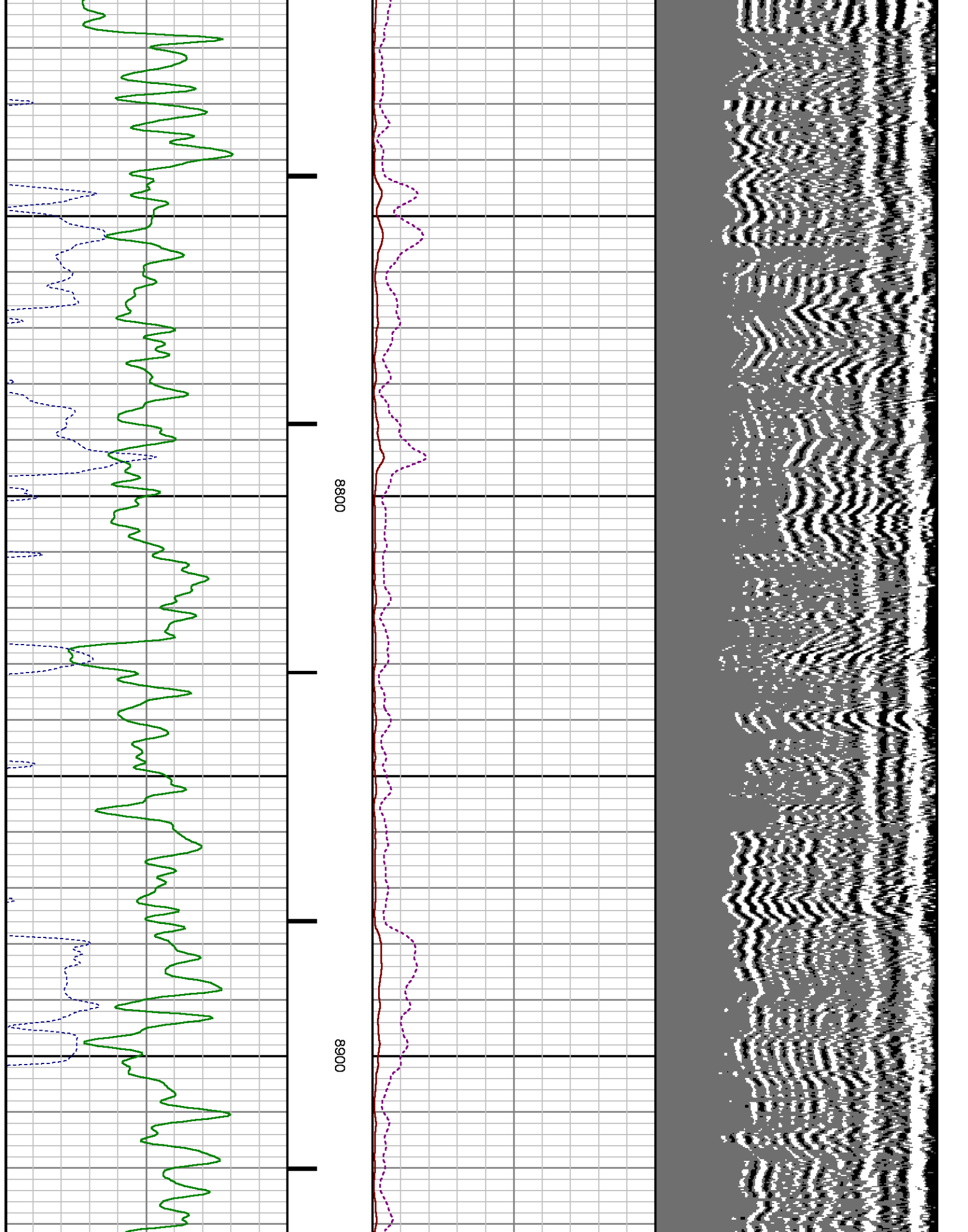
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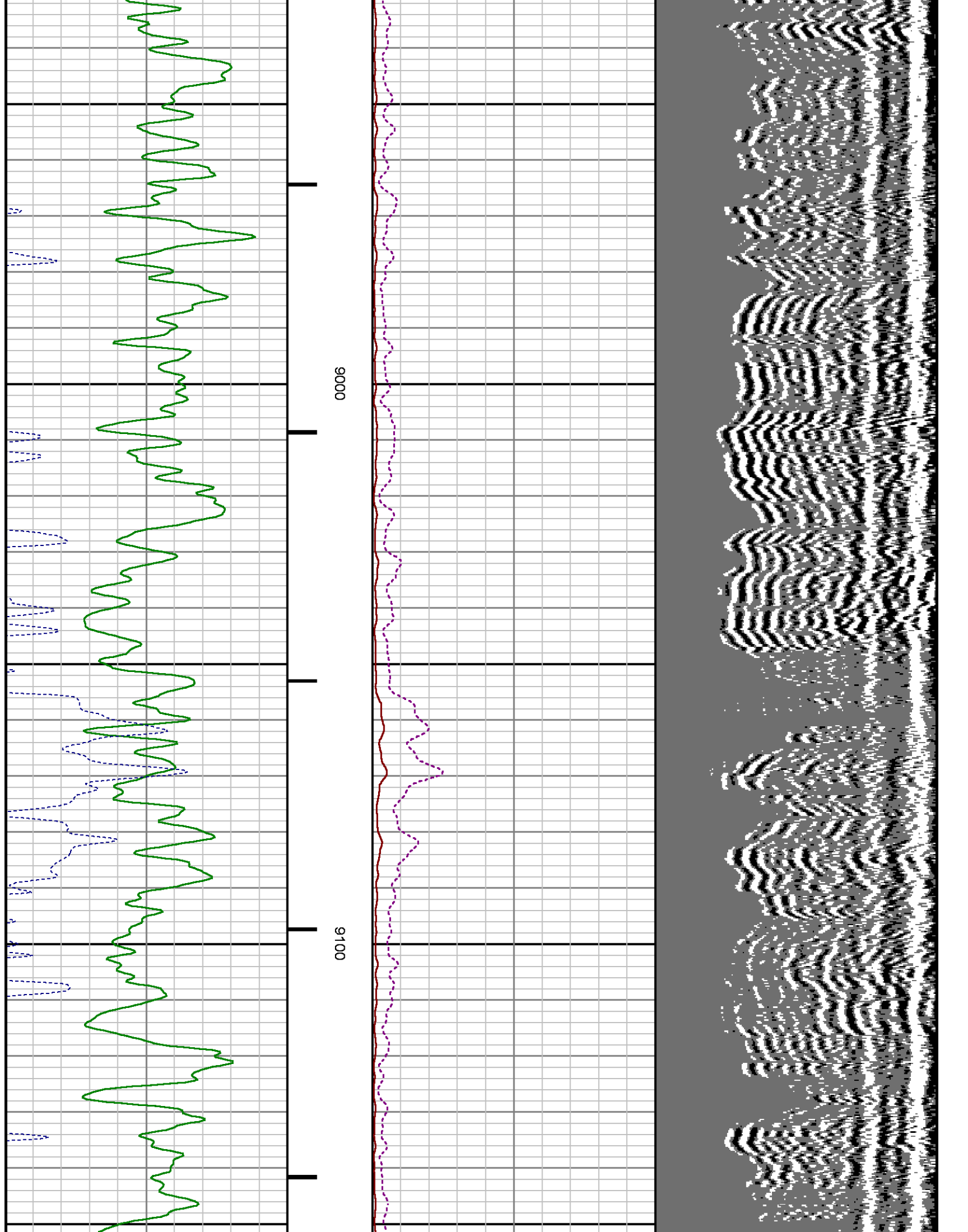
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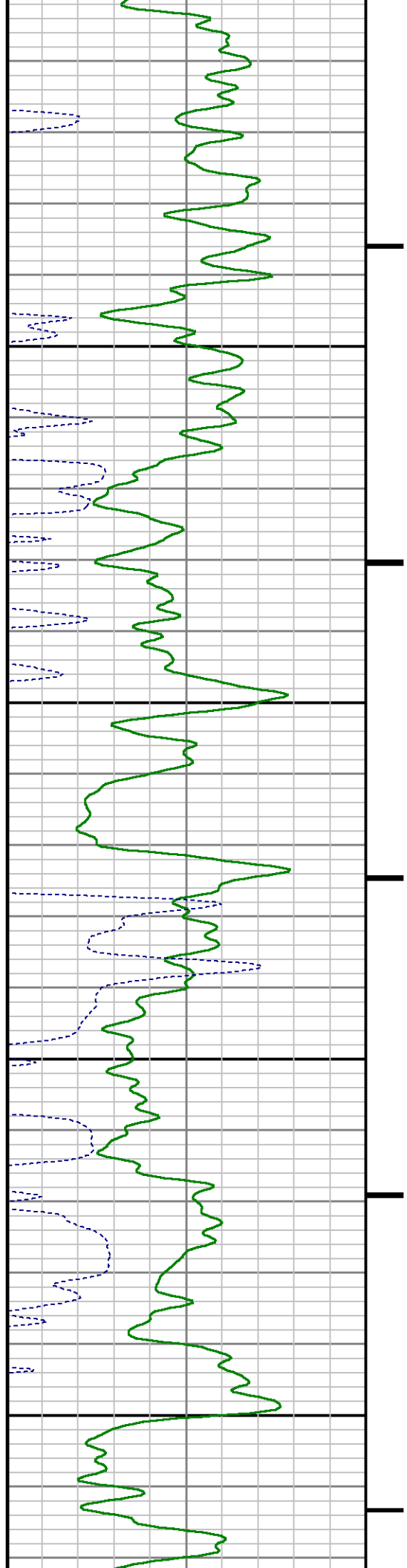
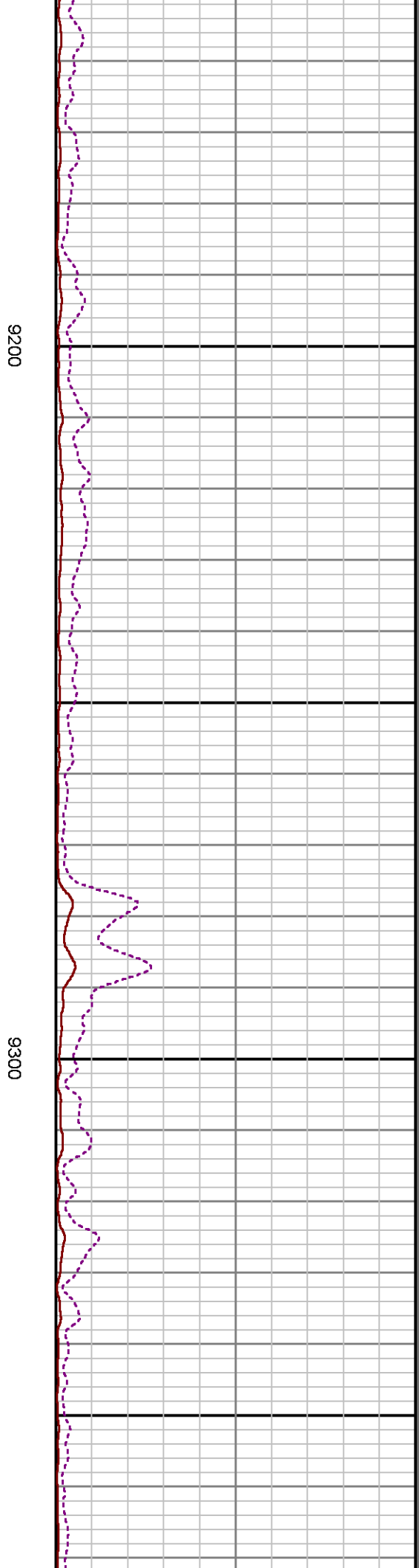
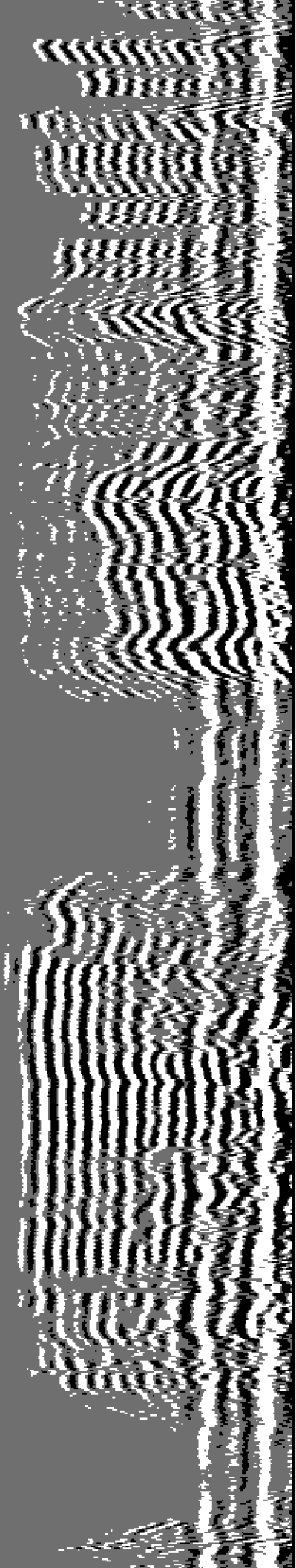


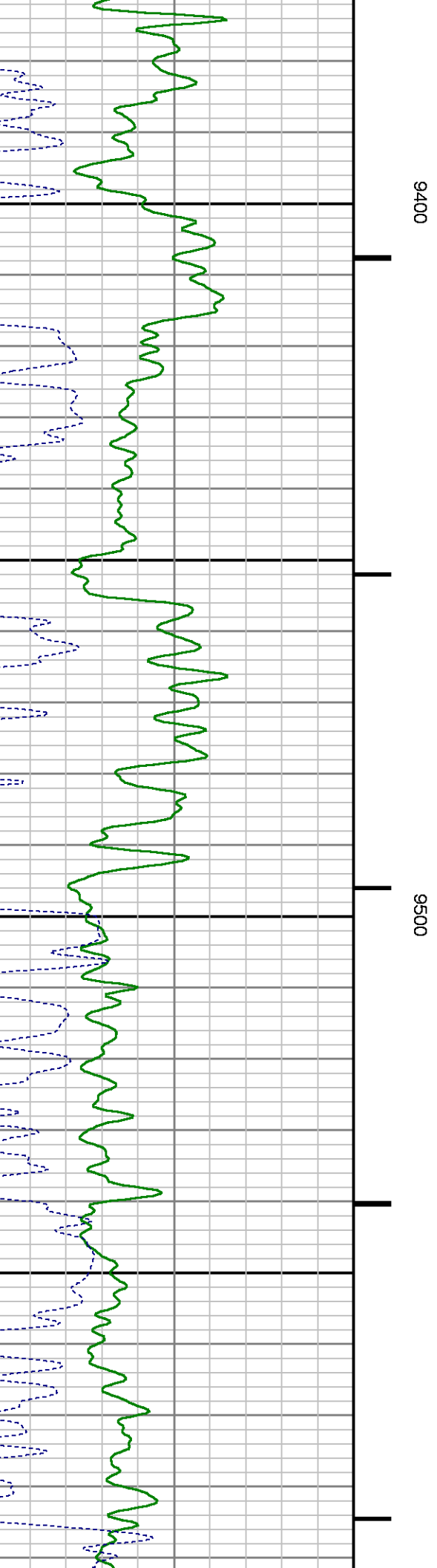
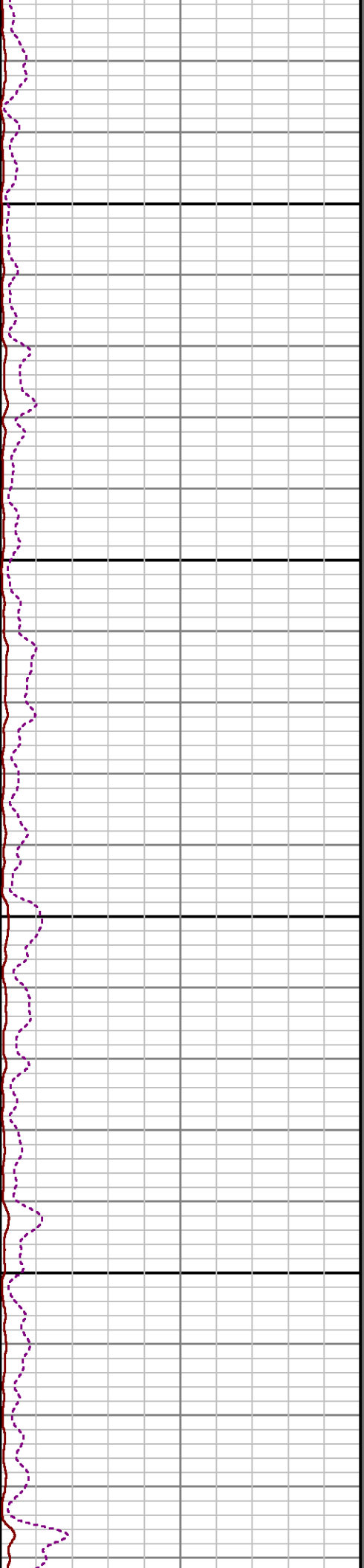
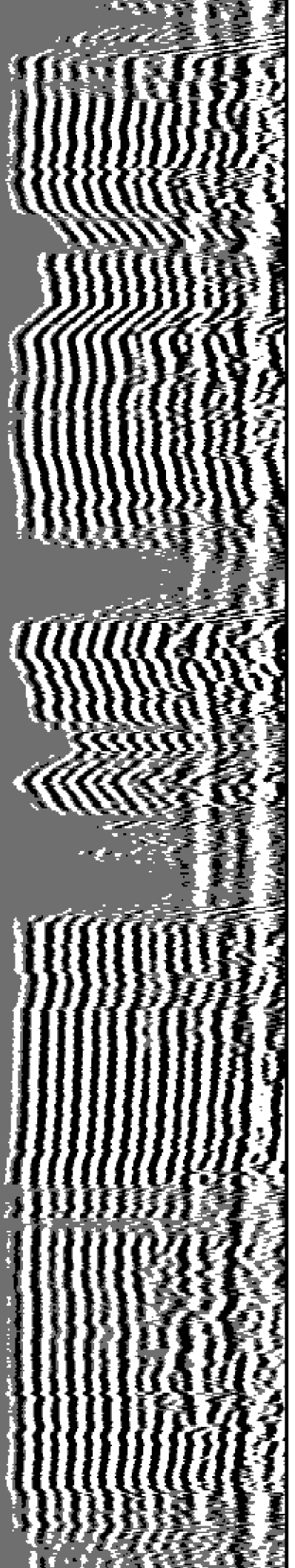


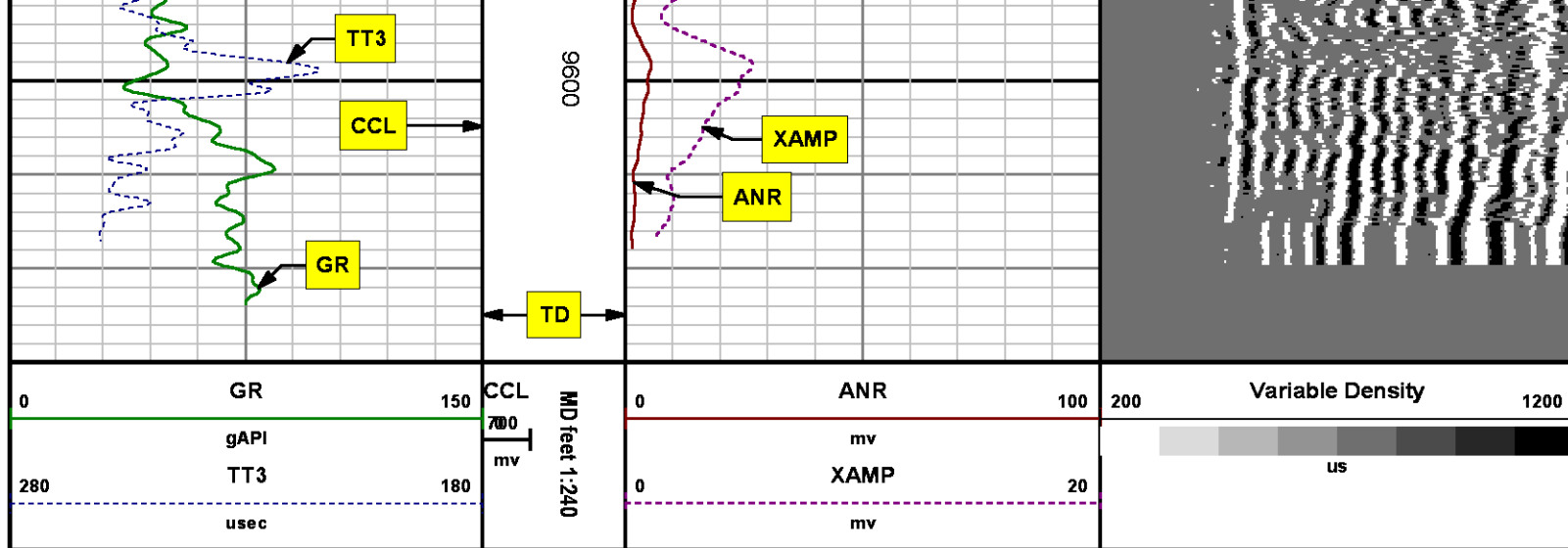












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	27.218	9630.500
RAL	Amp Gate Start Near	195.000	usec	27.218	9630.500
RAL	Amp Gate Start Radial	195.000	usec	27.218	9630.500
RAL	Amp Gate Width Far	25.000	usec	27.218	9630.500
RAL	Amp Gate Width Near	25.000	usec	27.218	9630.500
RAL	Amp Gate Width Radial	25.000	usec	27.218	9630.500
RAL	casing od	4.500	inches	27.218	9630.500
RAL	casing wt	11.600	lbm/ft	27.218	9630.500
RAL	FB Start Far	291.900	usec	27.218	9630.500
RAL	FB Start Near	180.000	usec	27.218	9630.500
RAL	FB Start Radial	180.000	usec	27.218	9630.500
RAL	FB Thresh Far	10.000	mv	27.218	9630.500
RAL	FB Thresh Near	4.000	mv	27.218	9630.500
RAL	FB Thresh Radial	4.000	mv	27.218	9630.500
RAL	Fluid Travel Time	200.000	usec/ft	27.218	9630.500

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

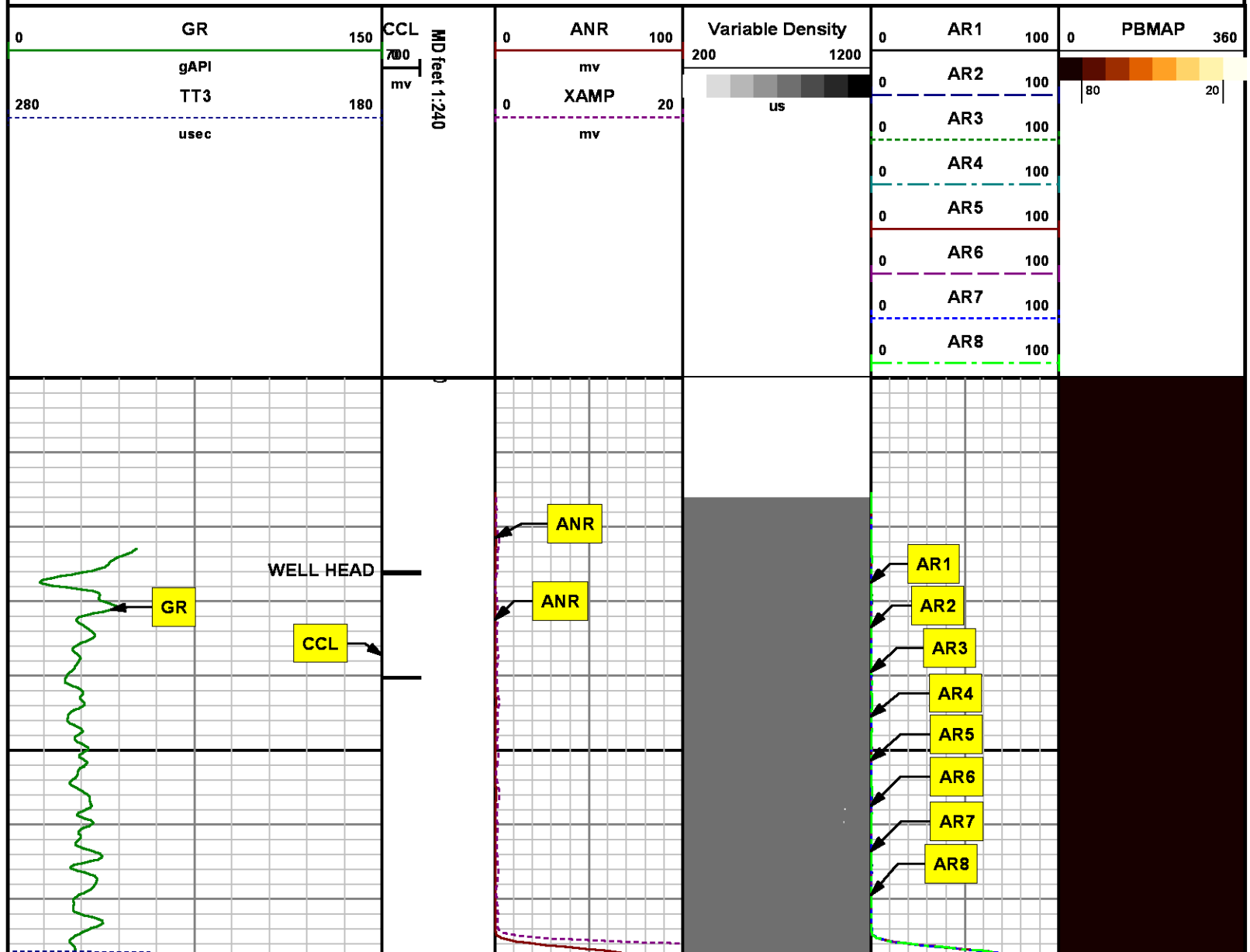
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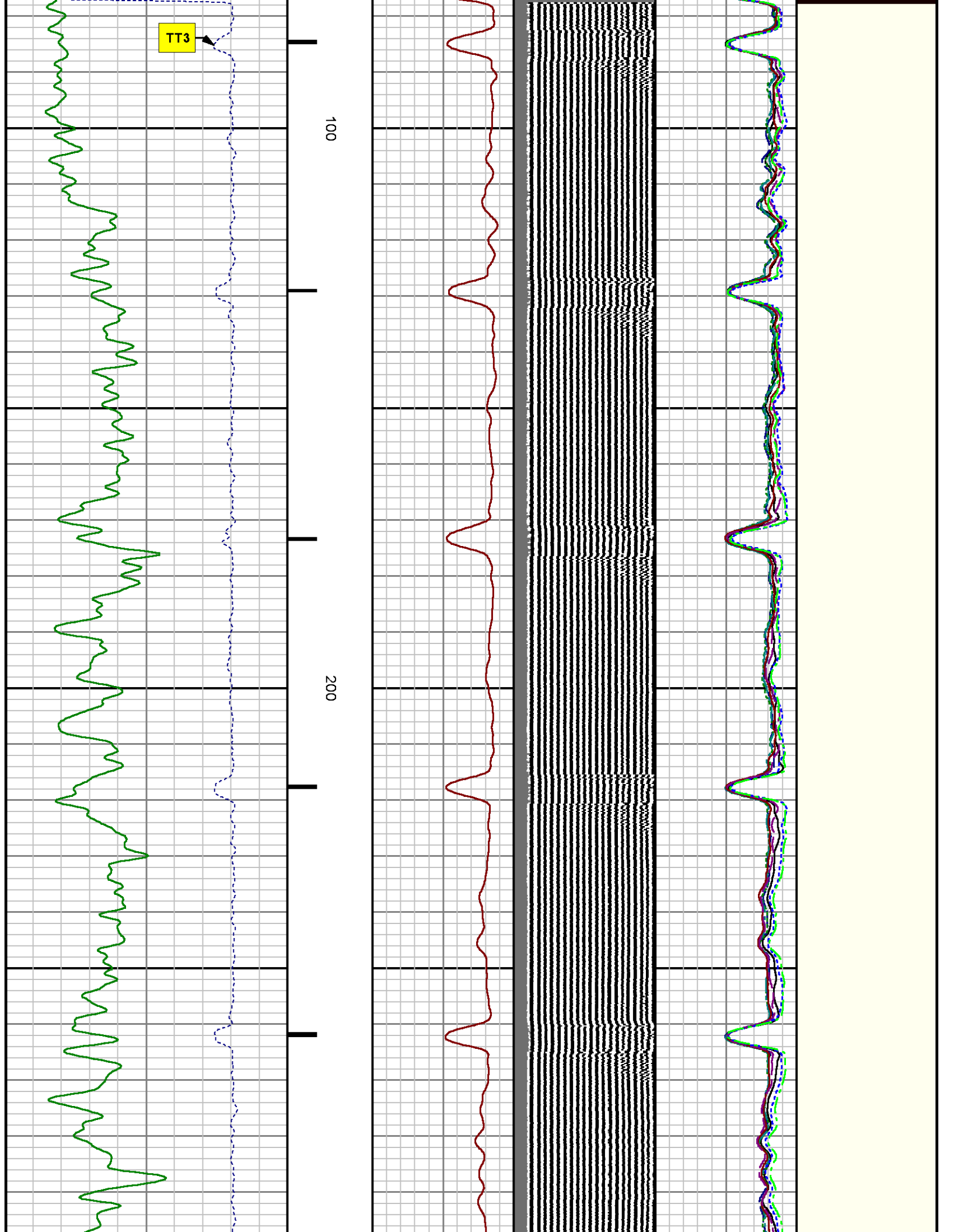
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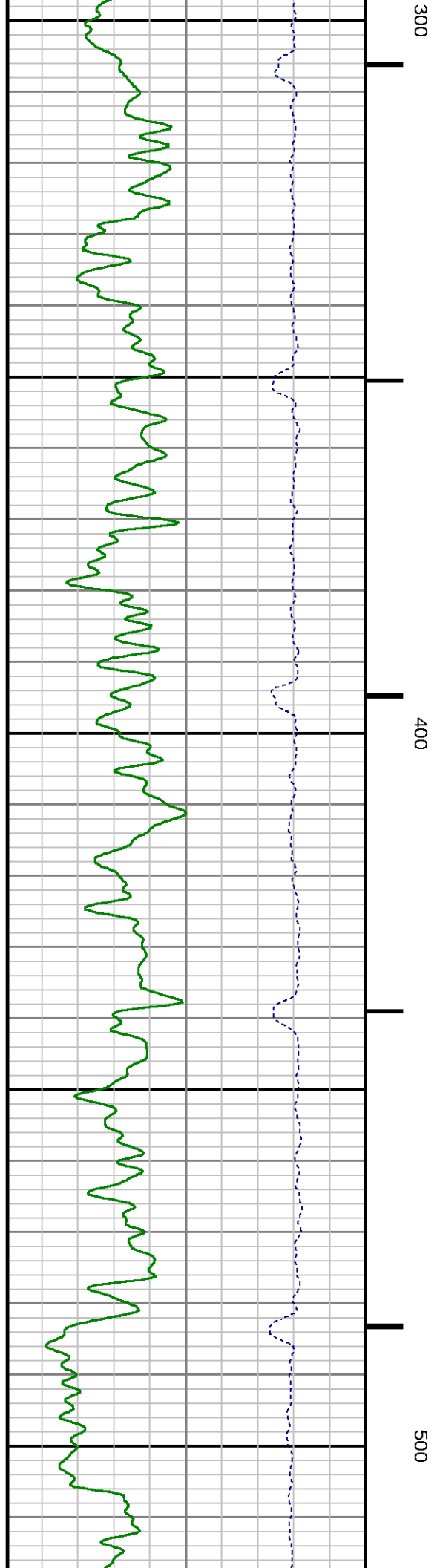
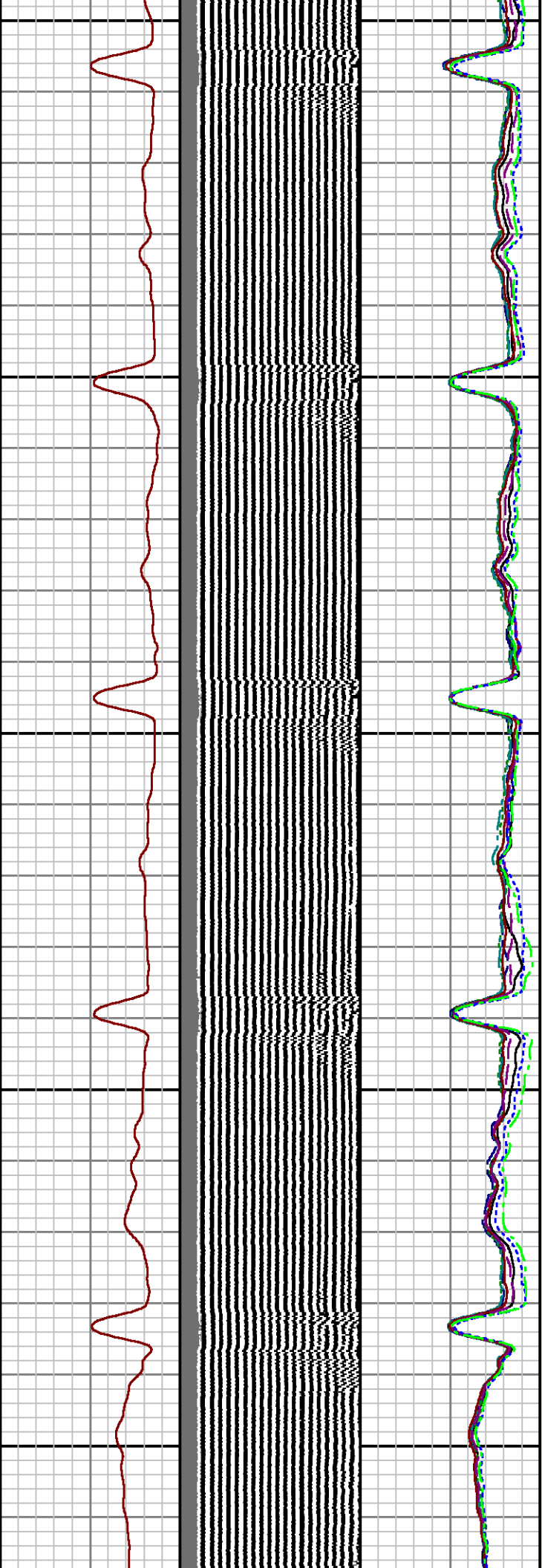
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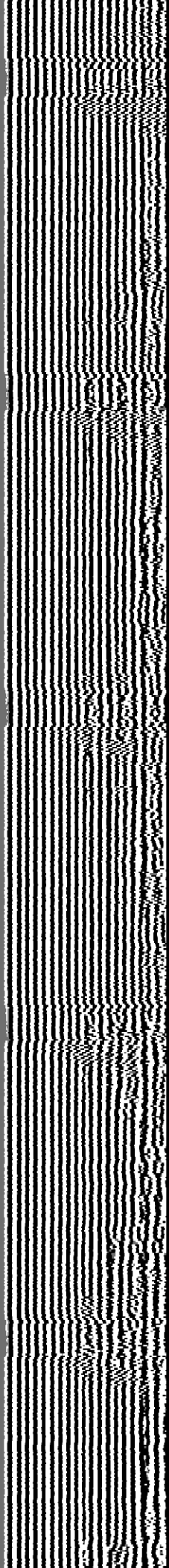
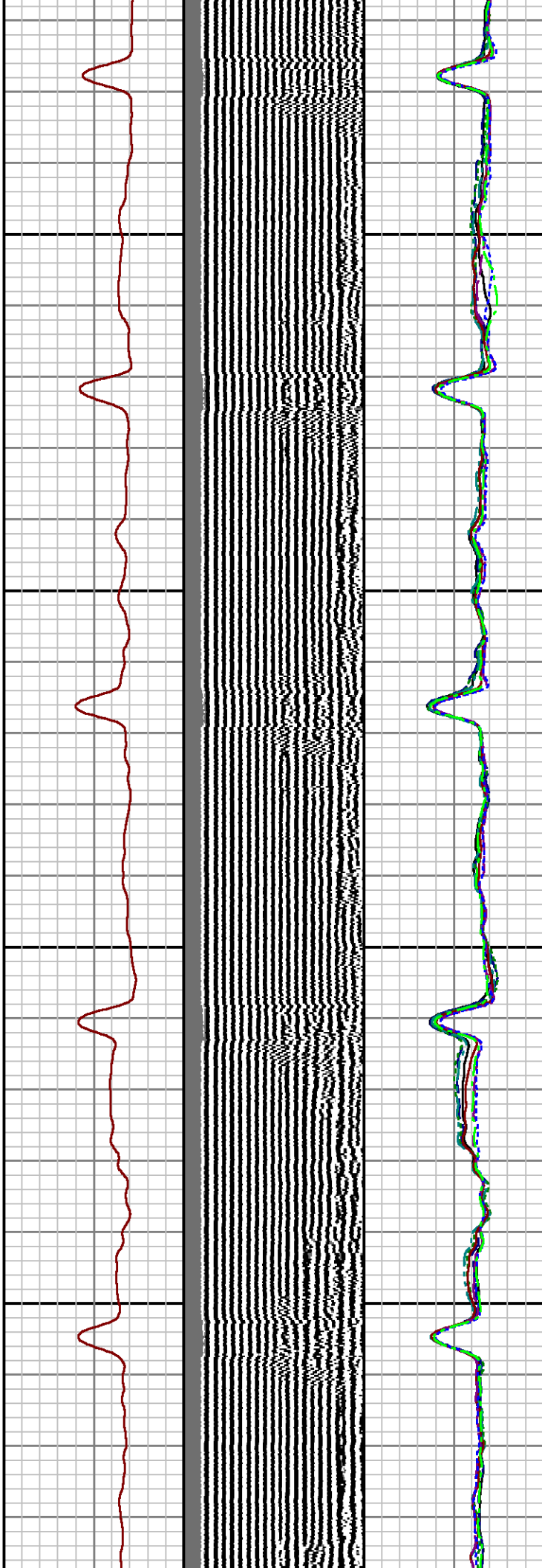
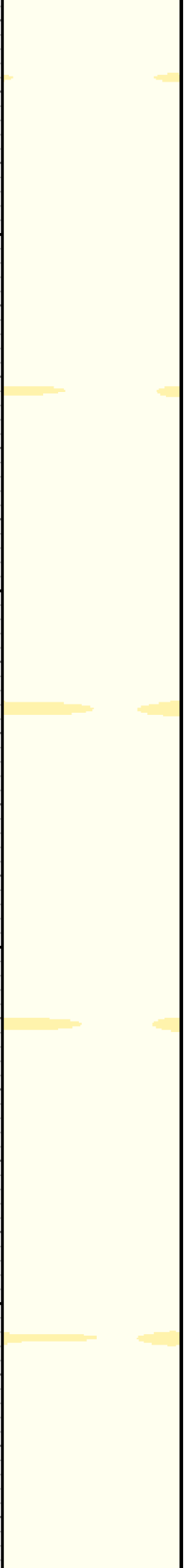
Interval : 0.00 - 9630.00 feet UP

Created : 10/11/2014 9:13:06 PM



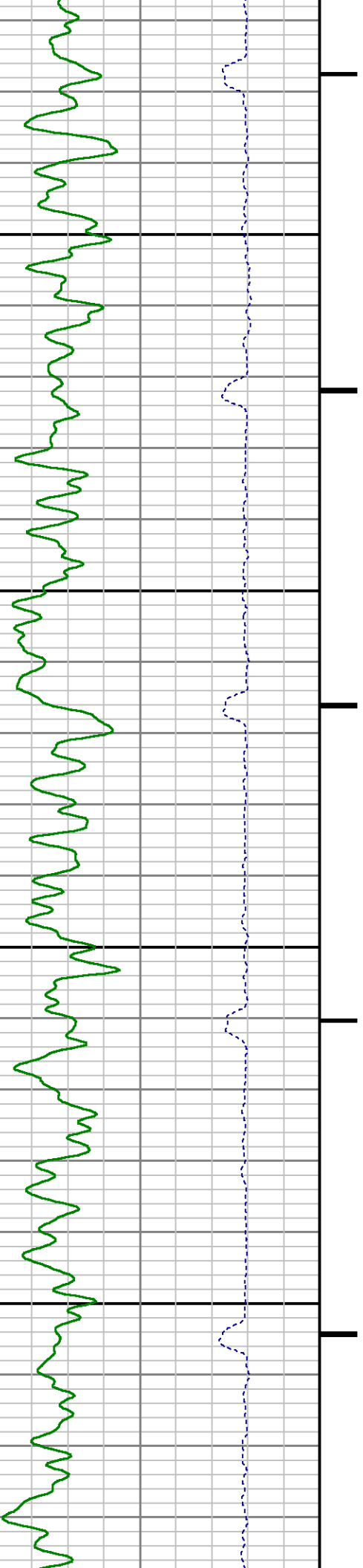


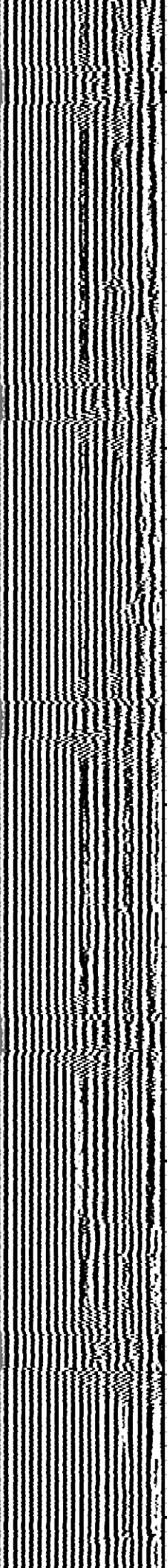
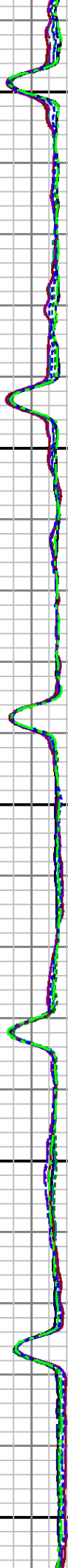
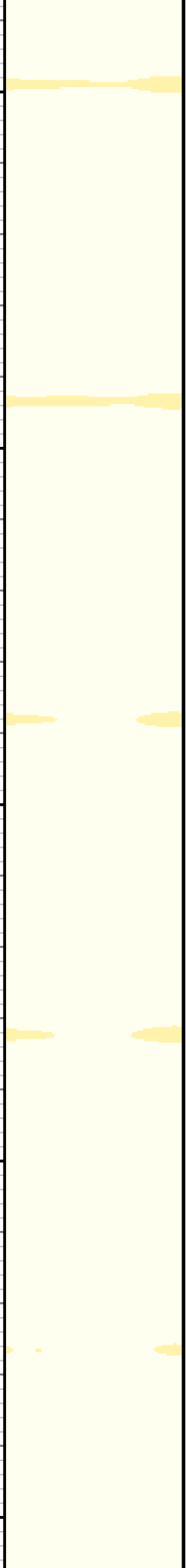




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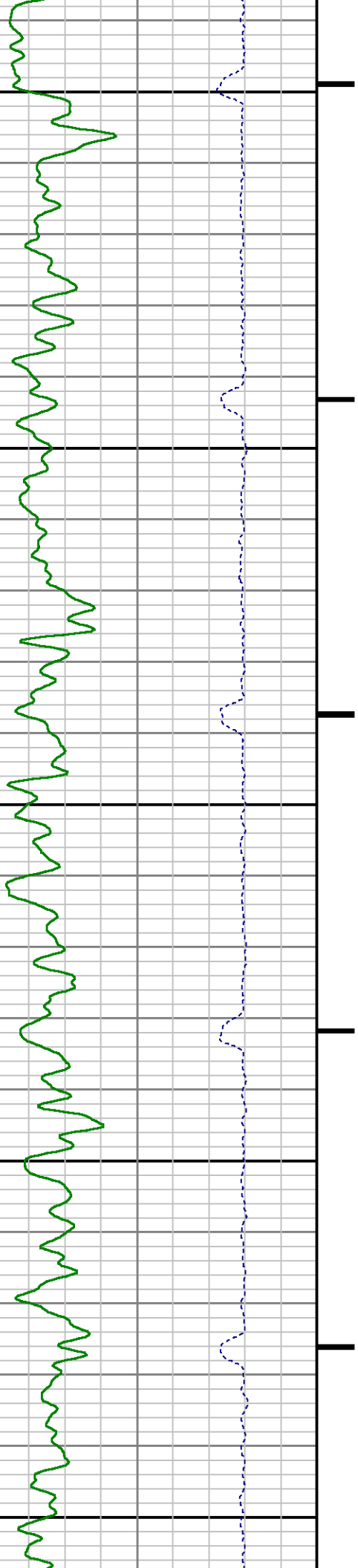
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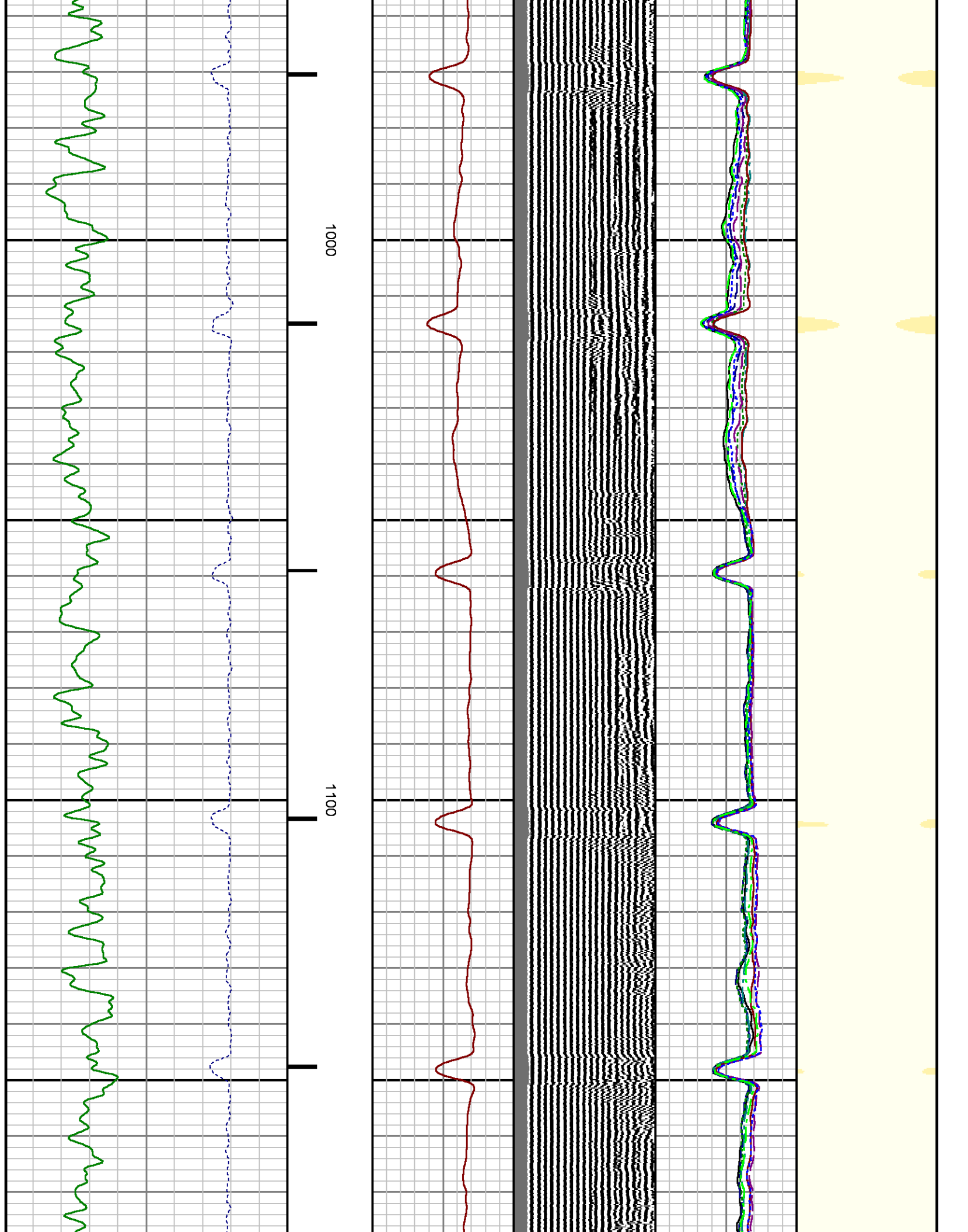


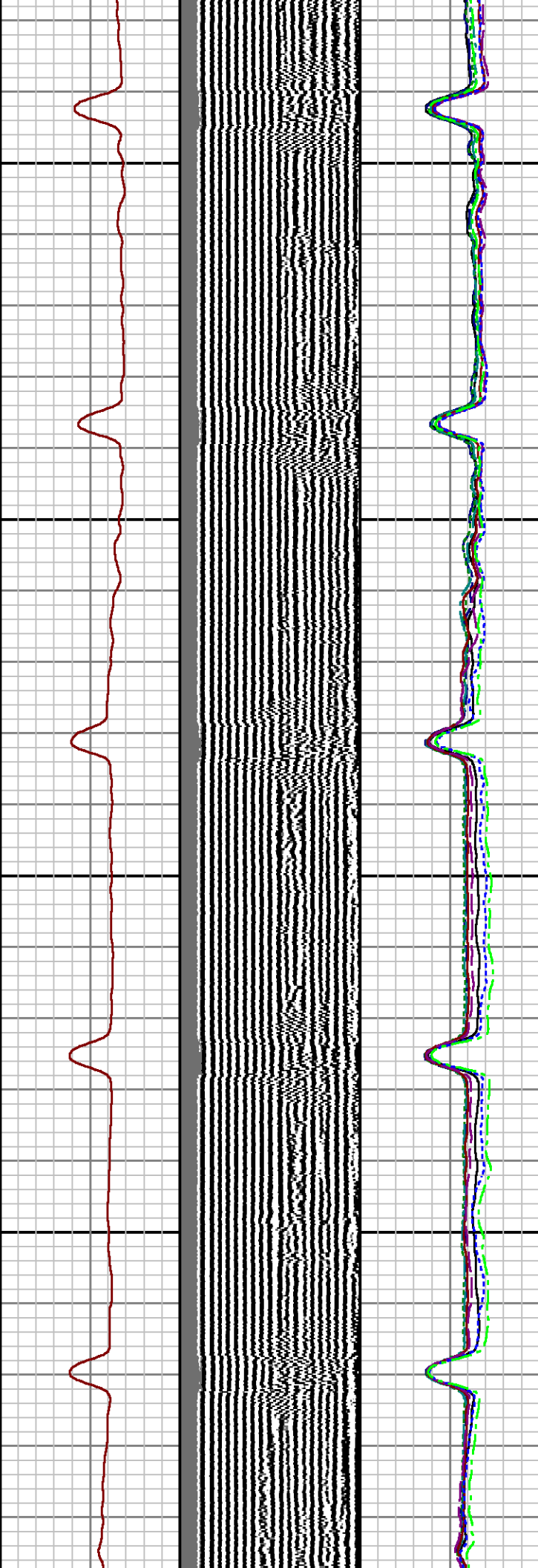
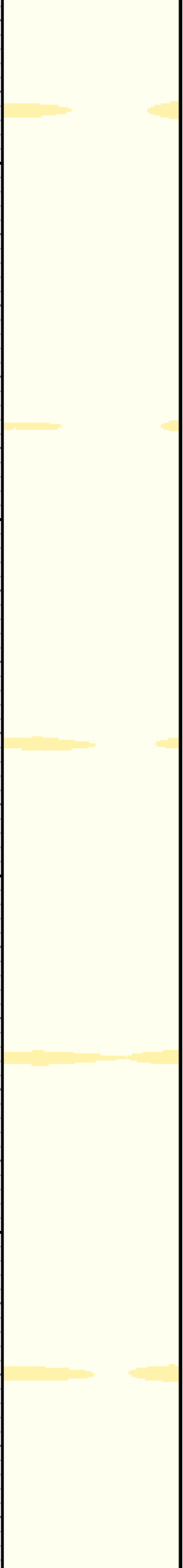


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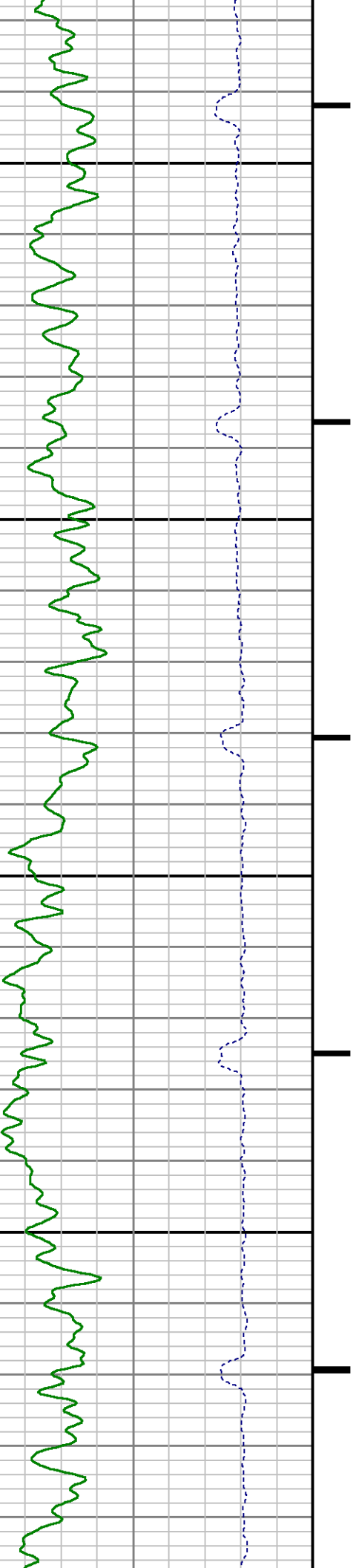


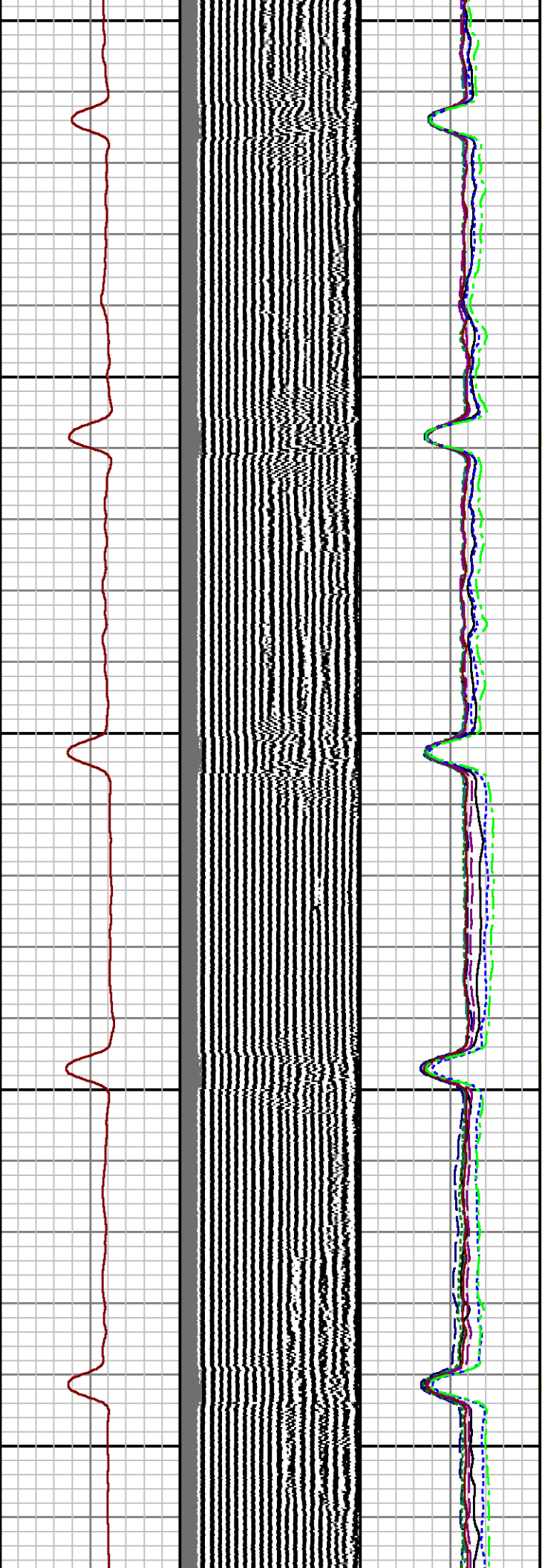
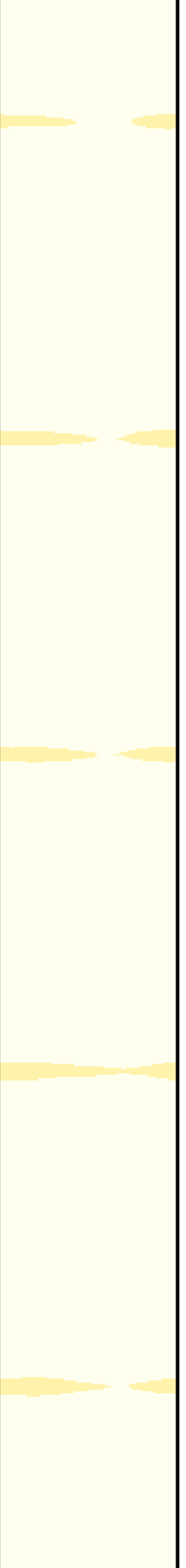




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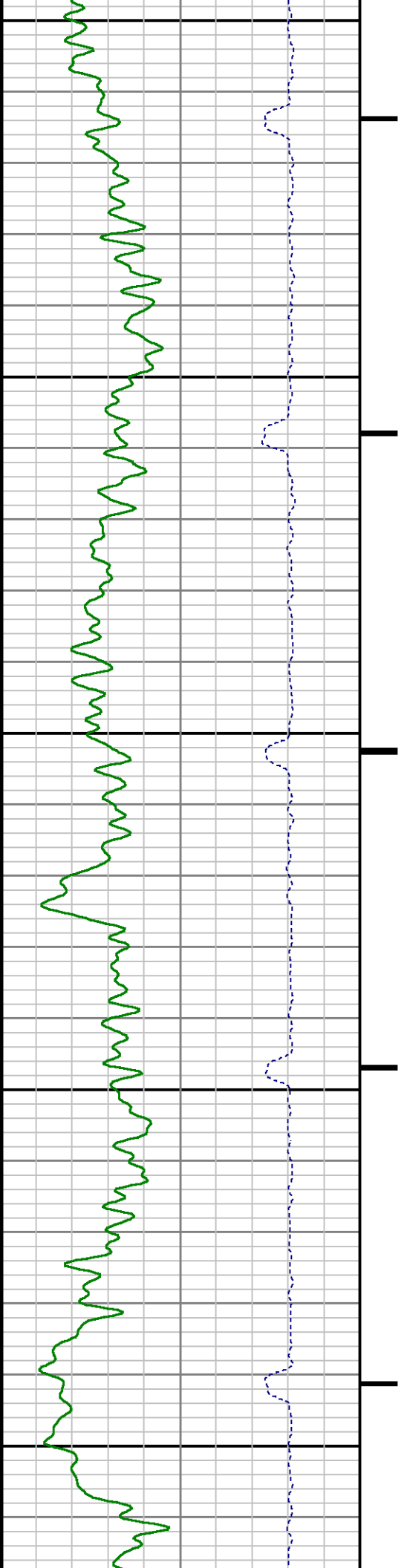


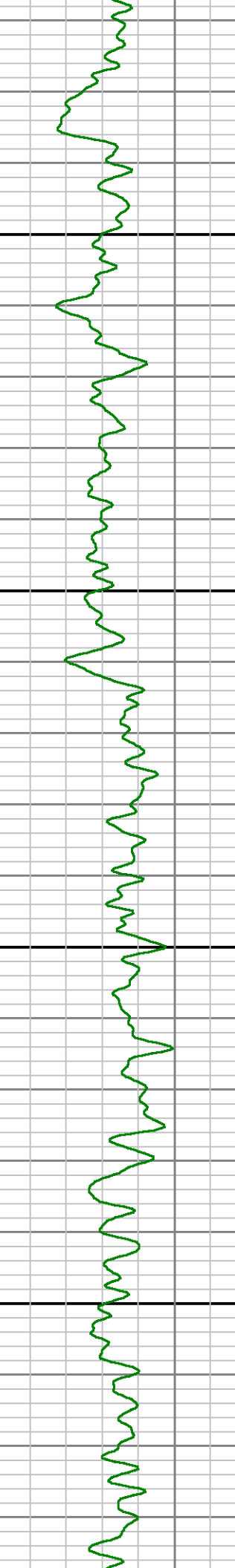
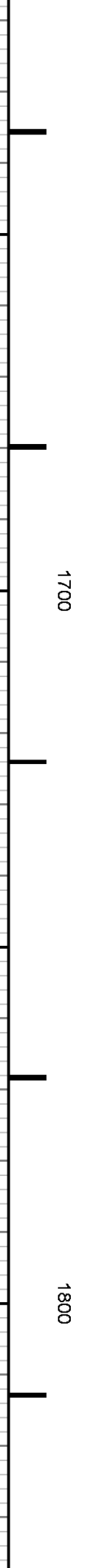
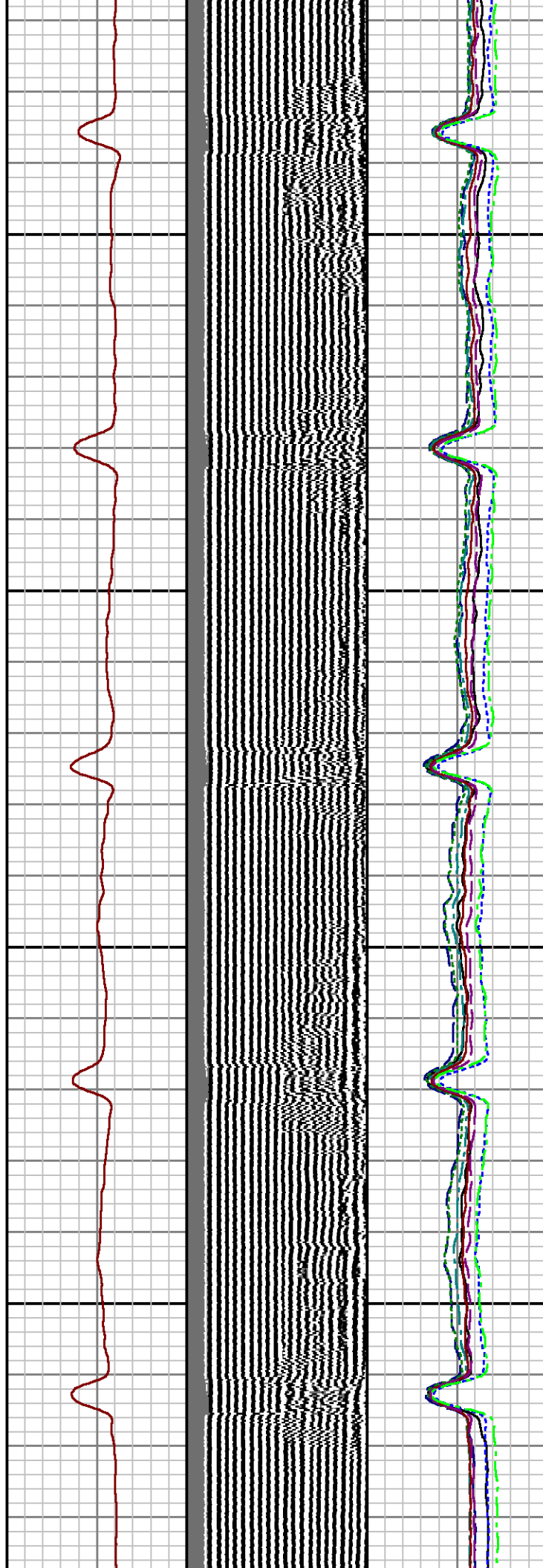
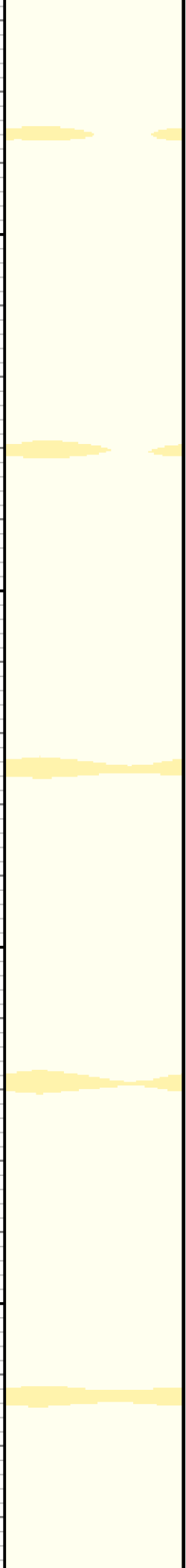


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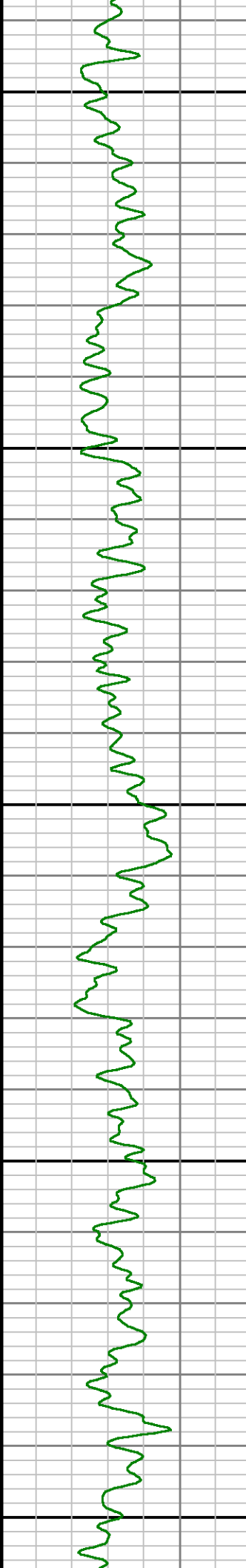
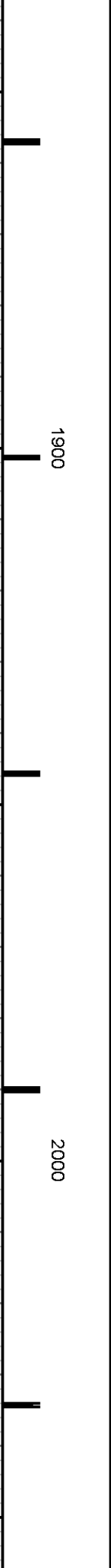
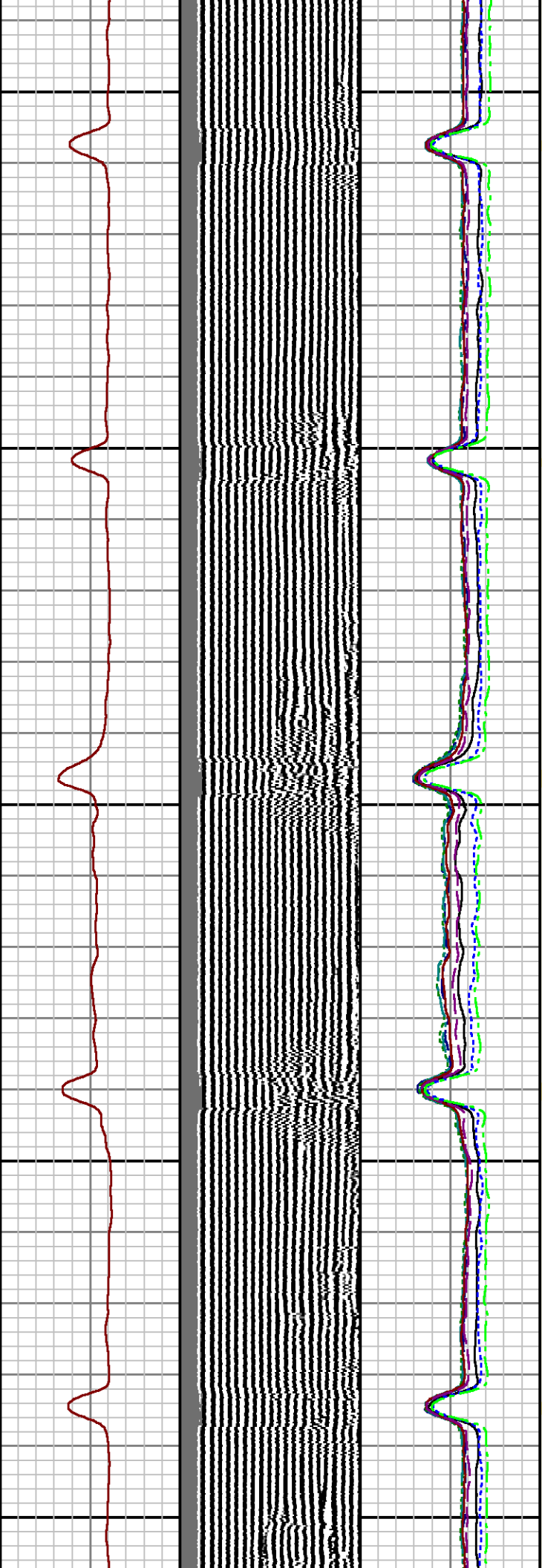
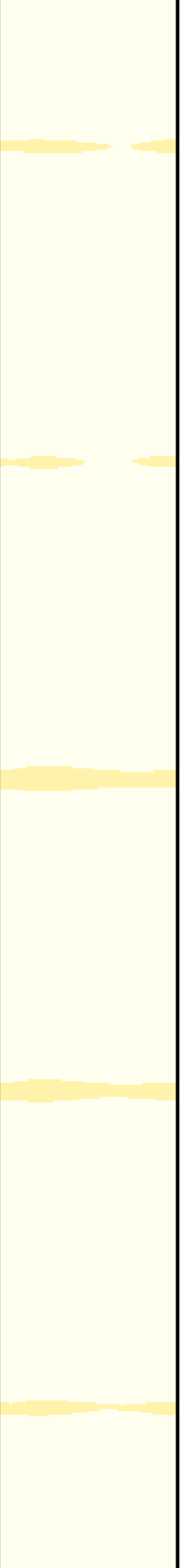
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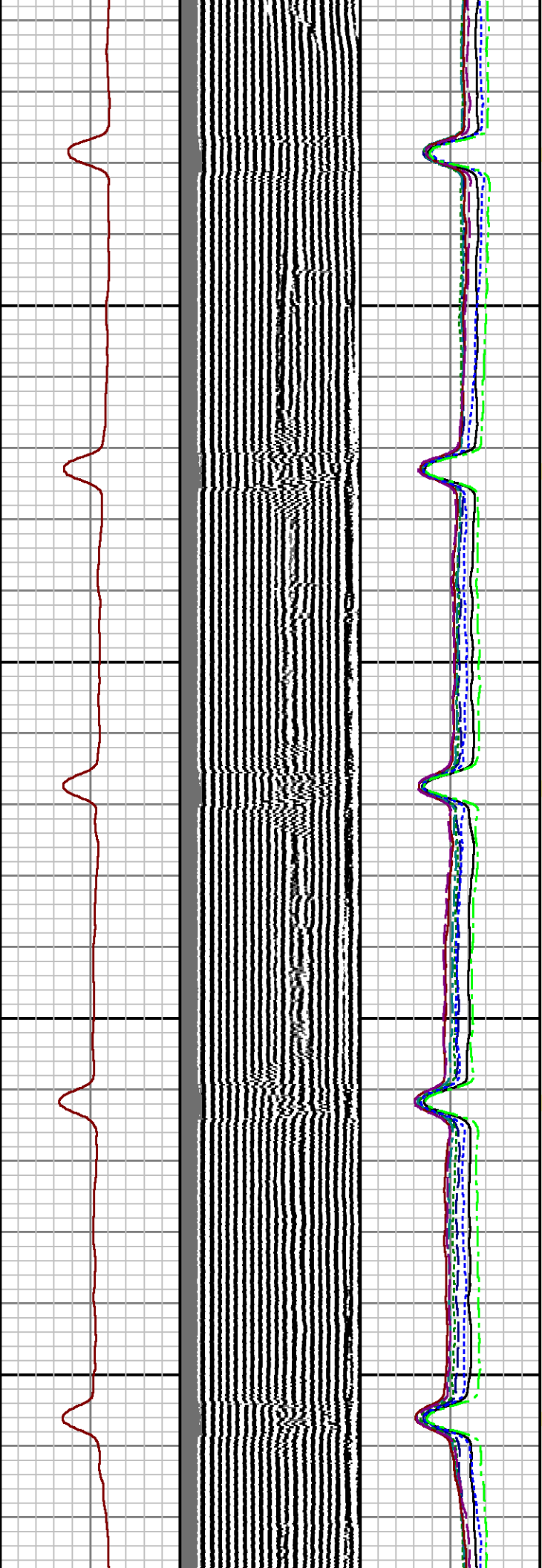
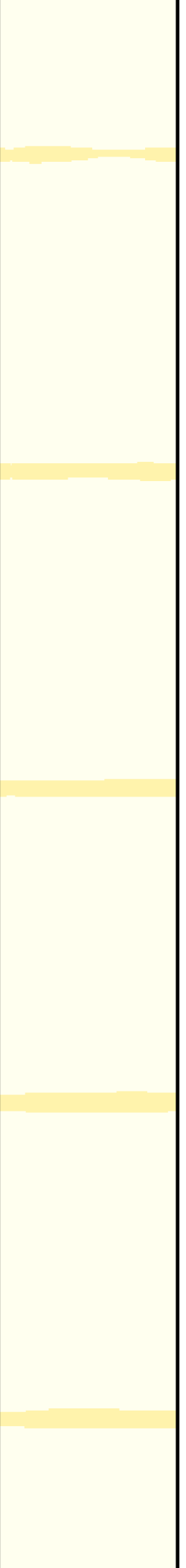
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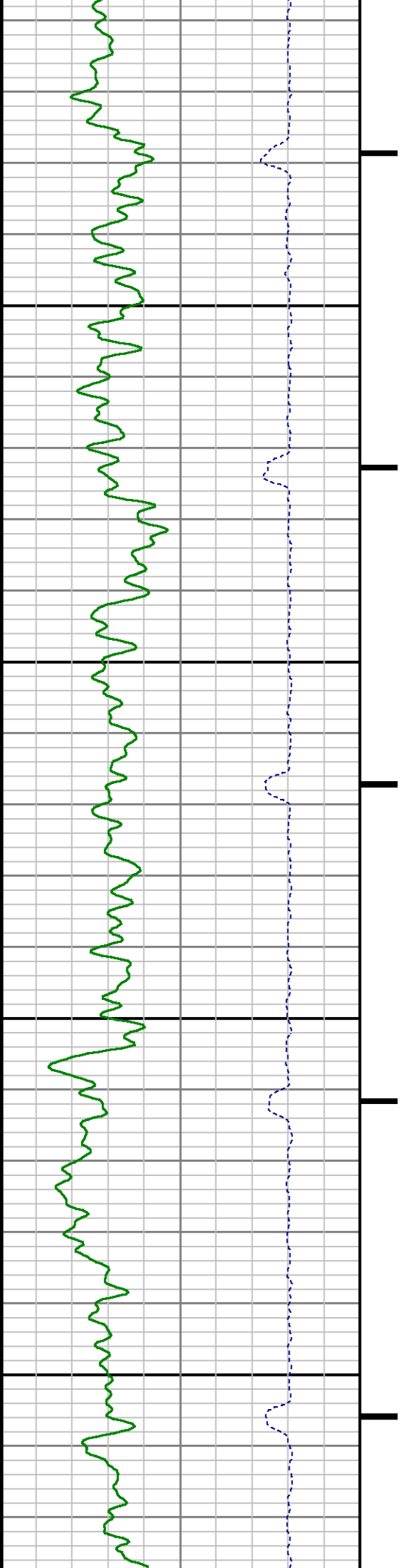
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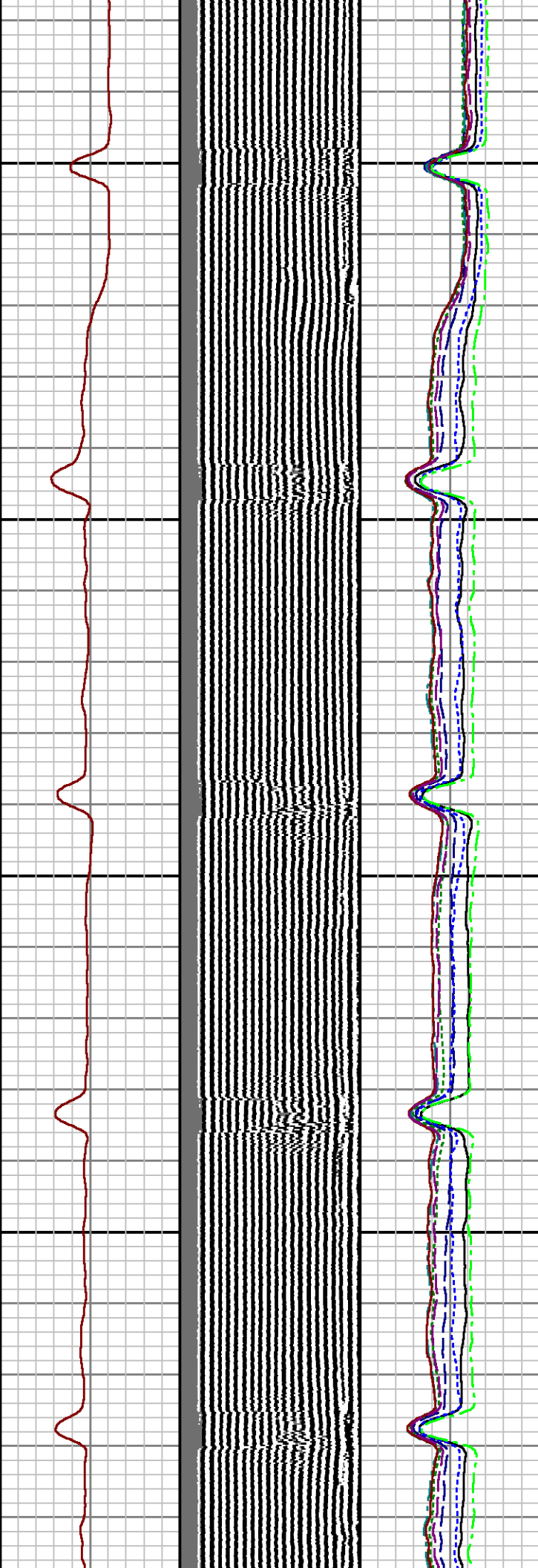
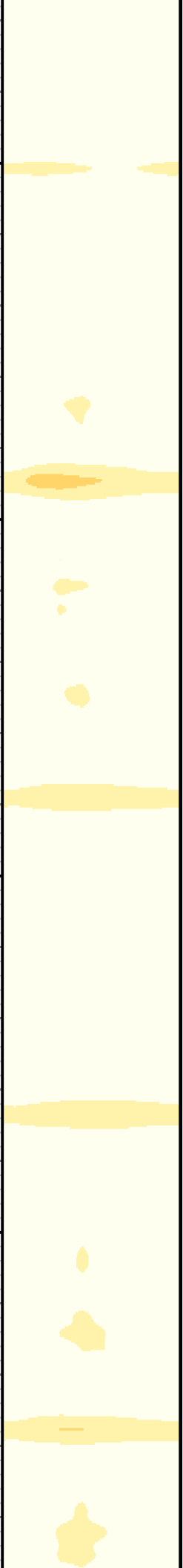
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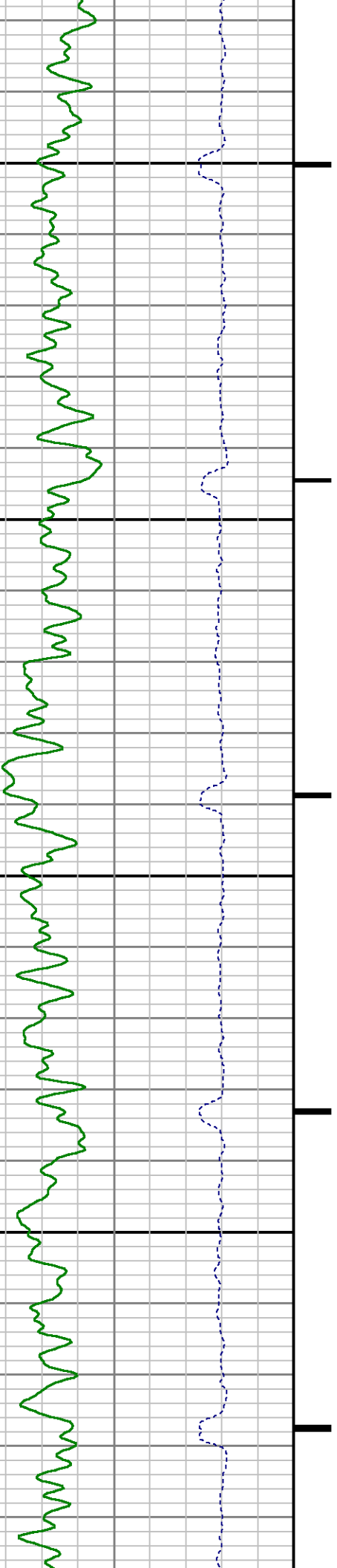
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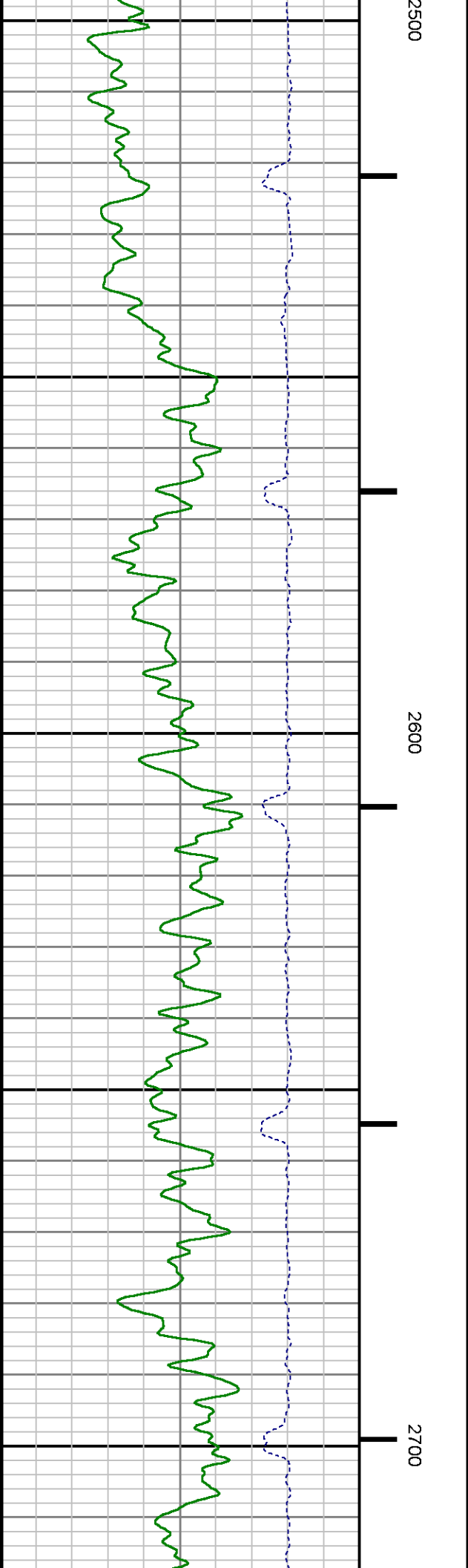
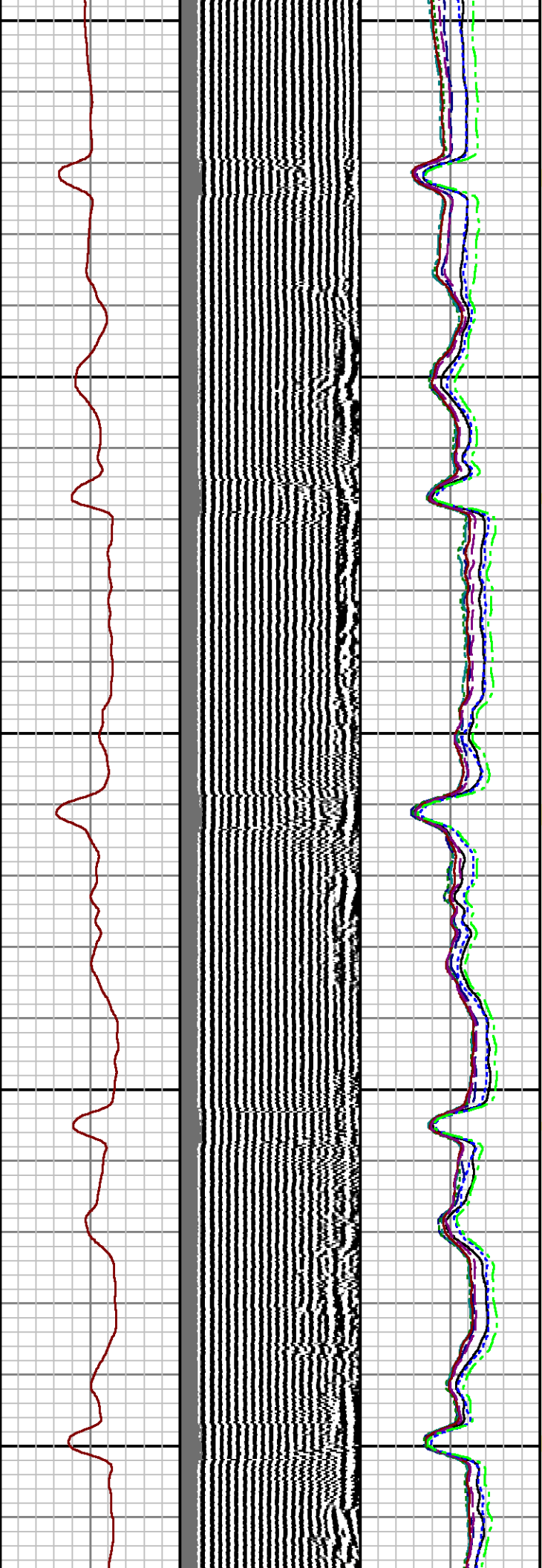
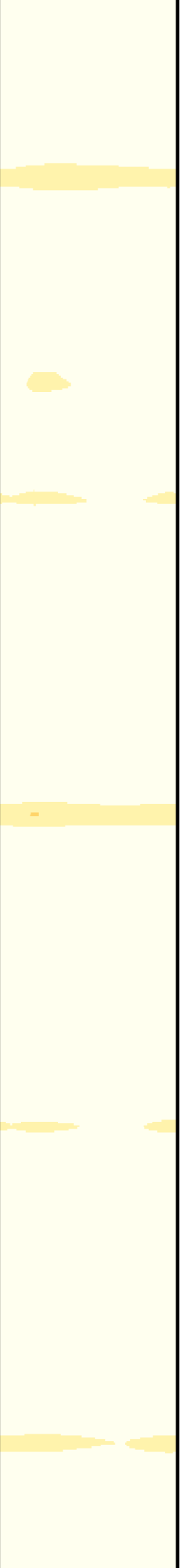


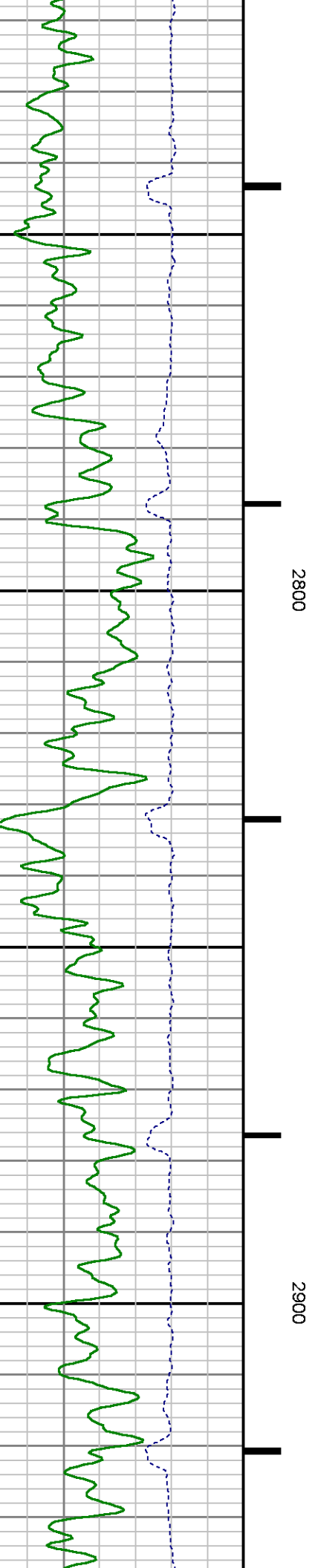
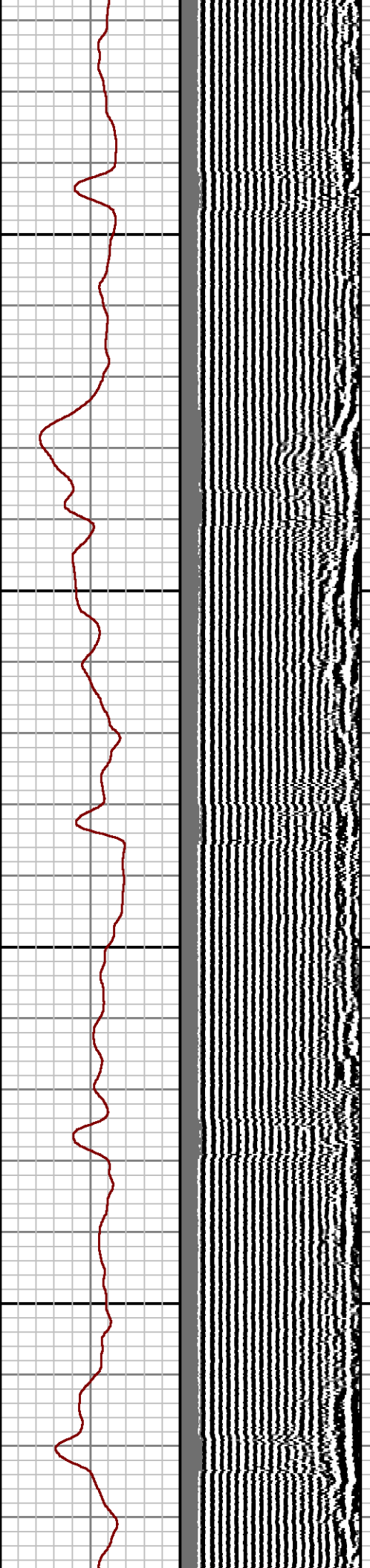
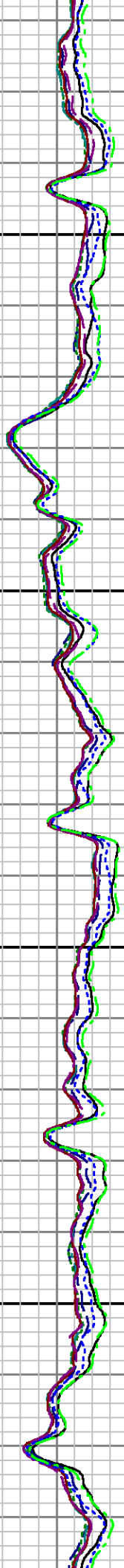
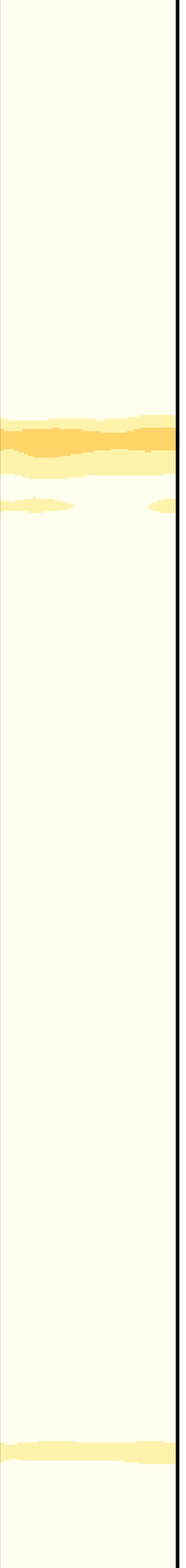


2300

2400

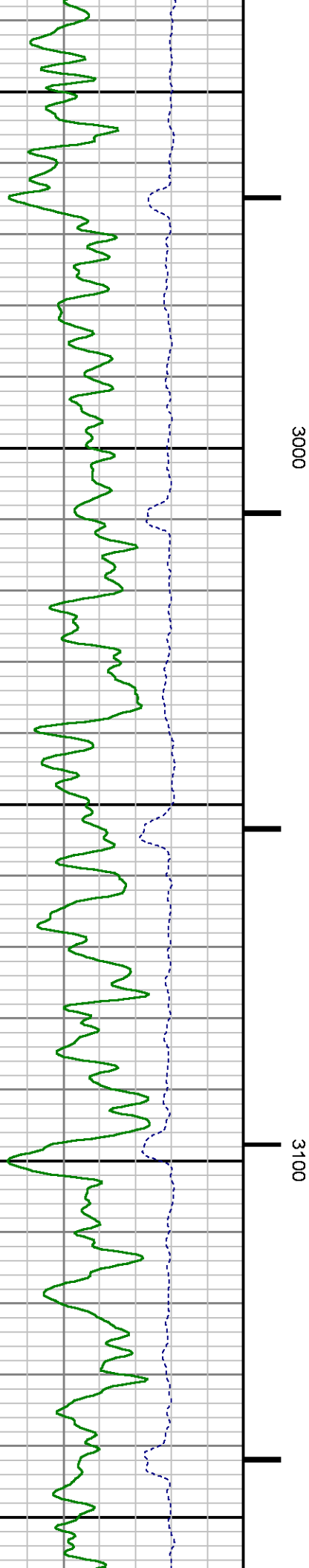
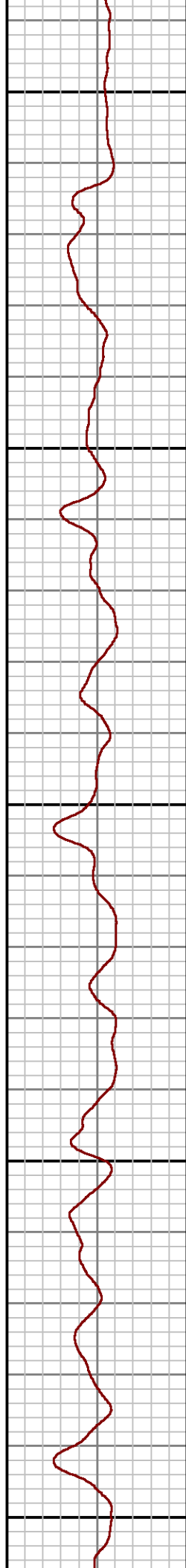
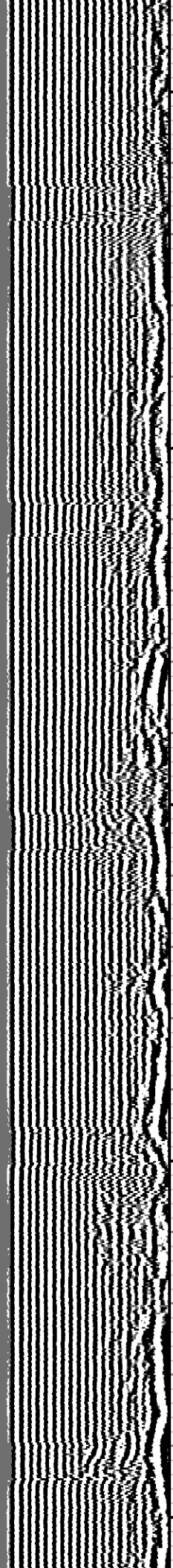
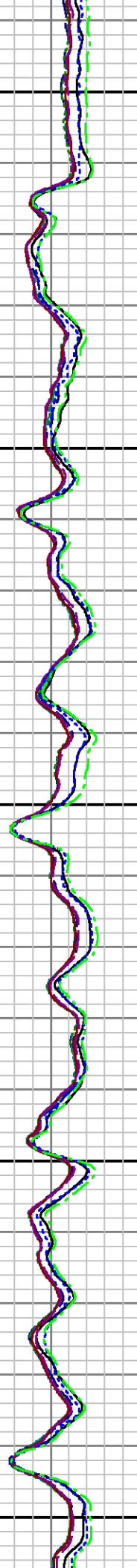
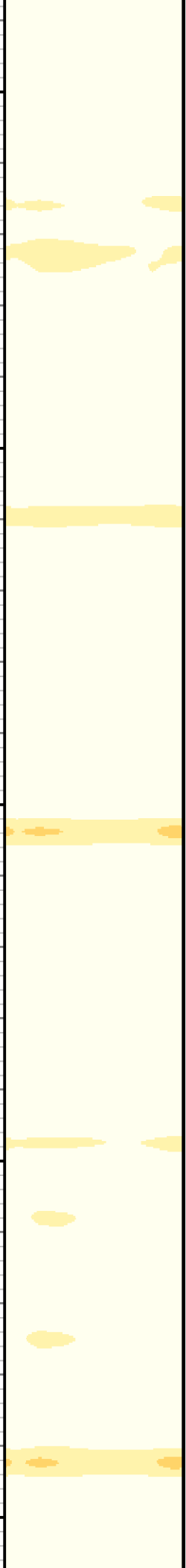






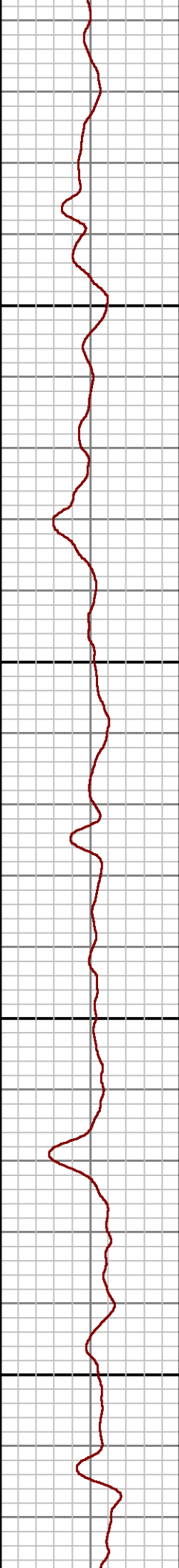
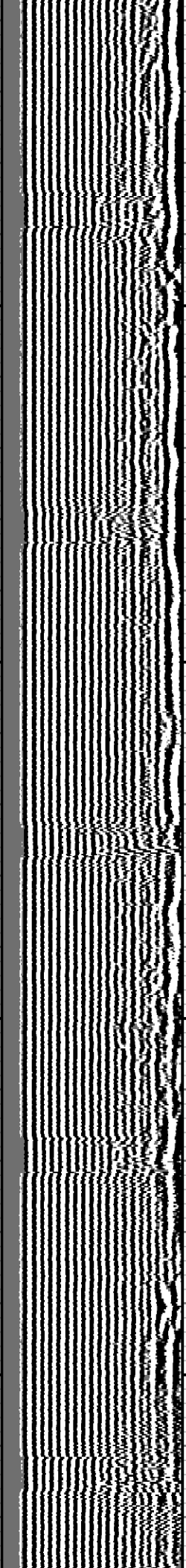
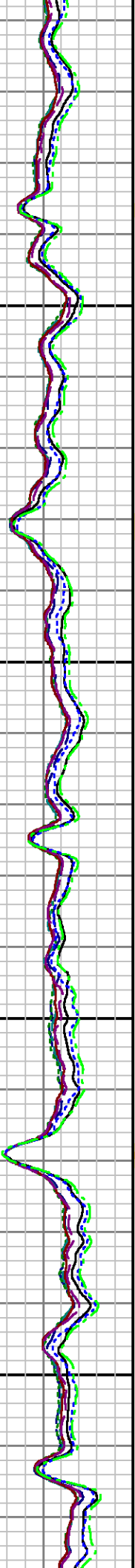
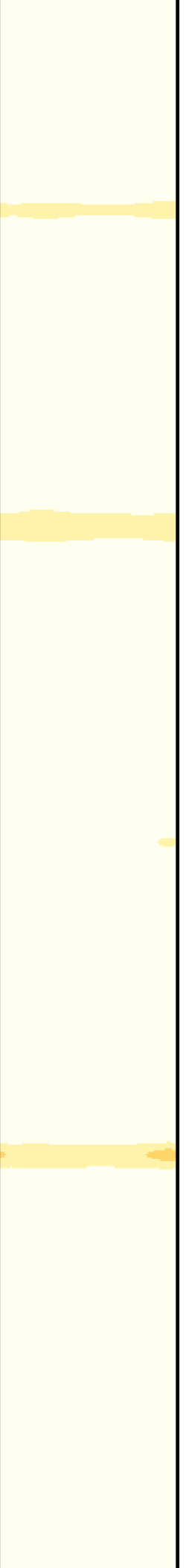
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2900



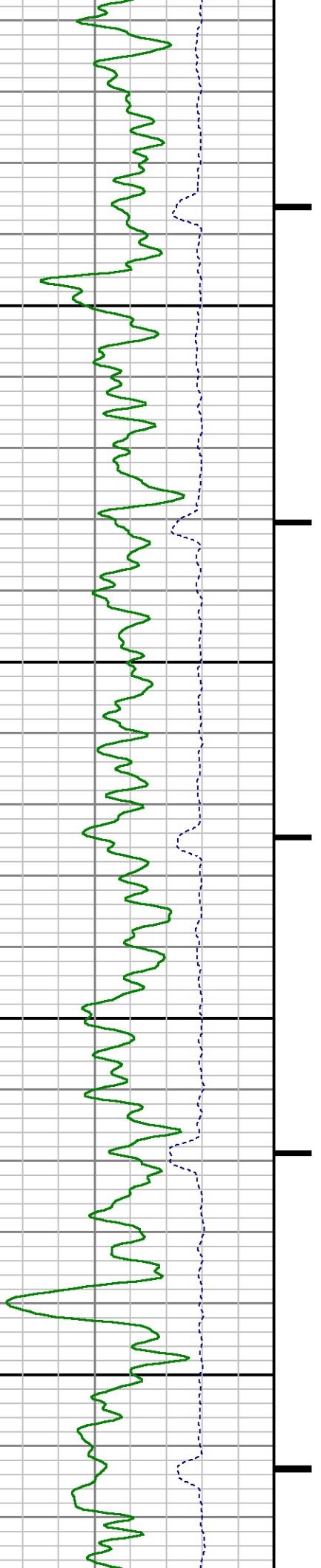
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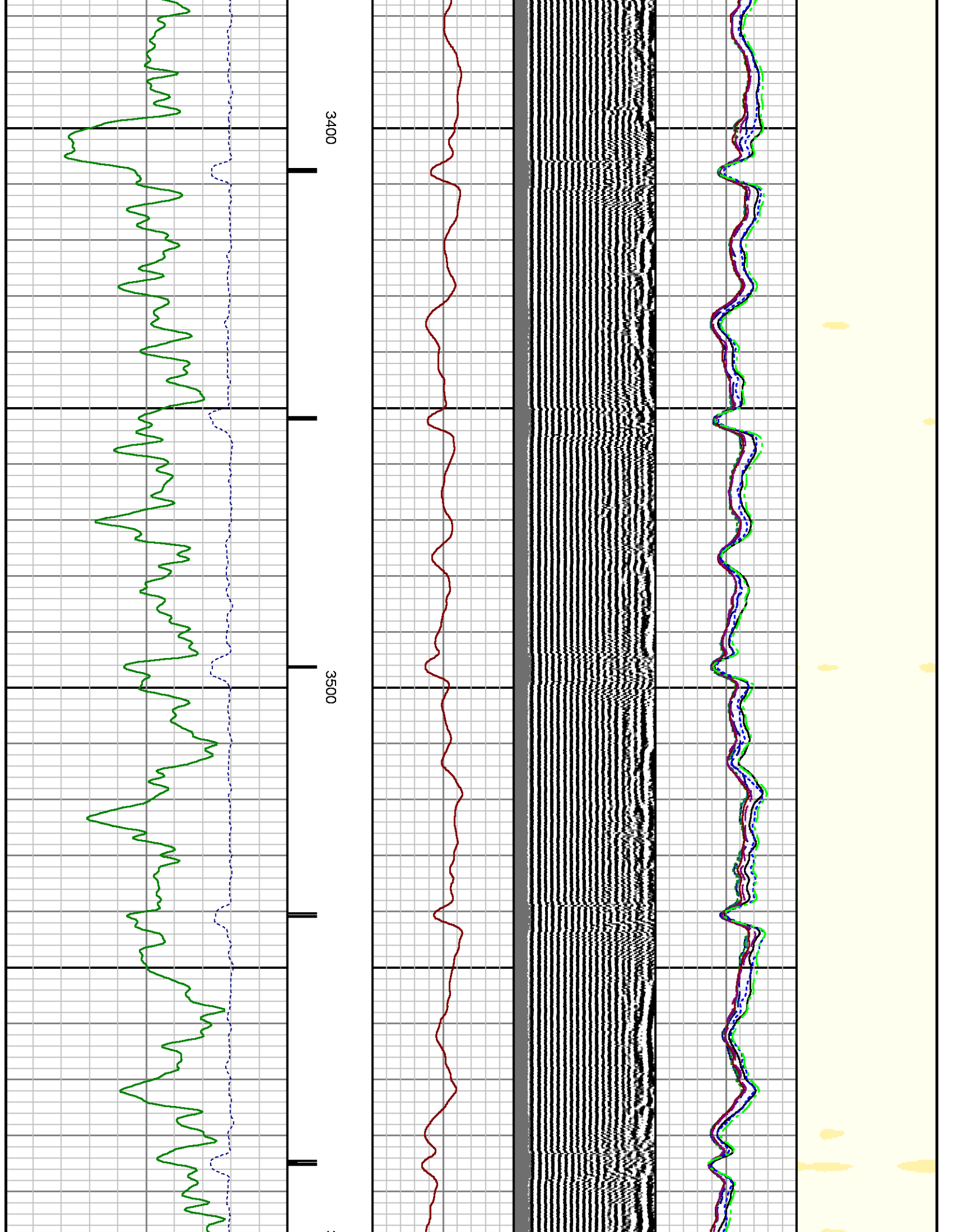
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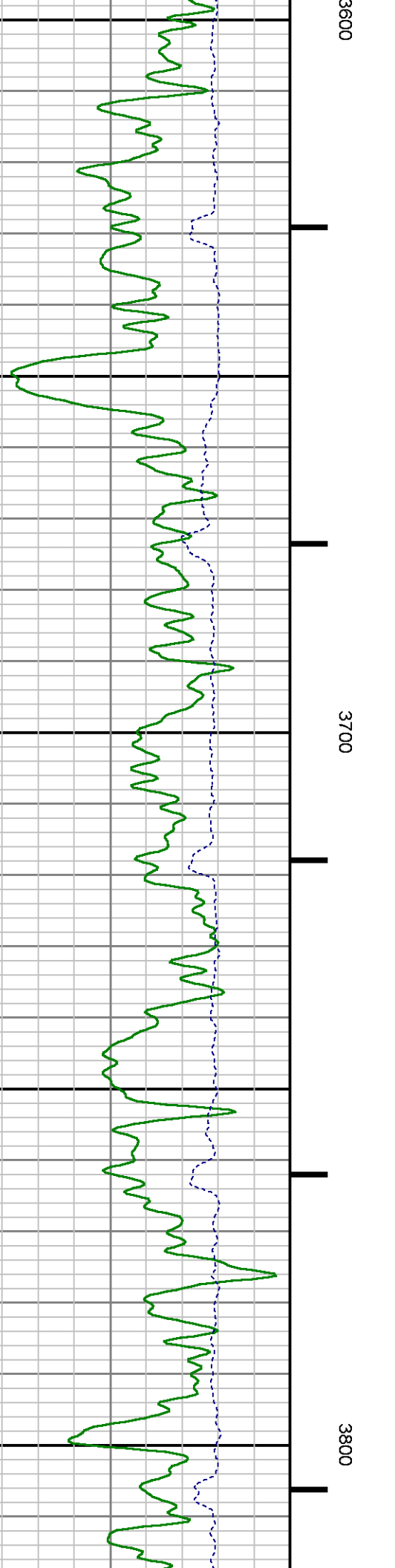
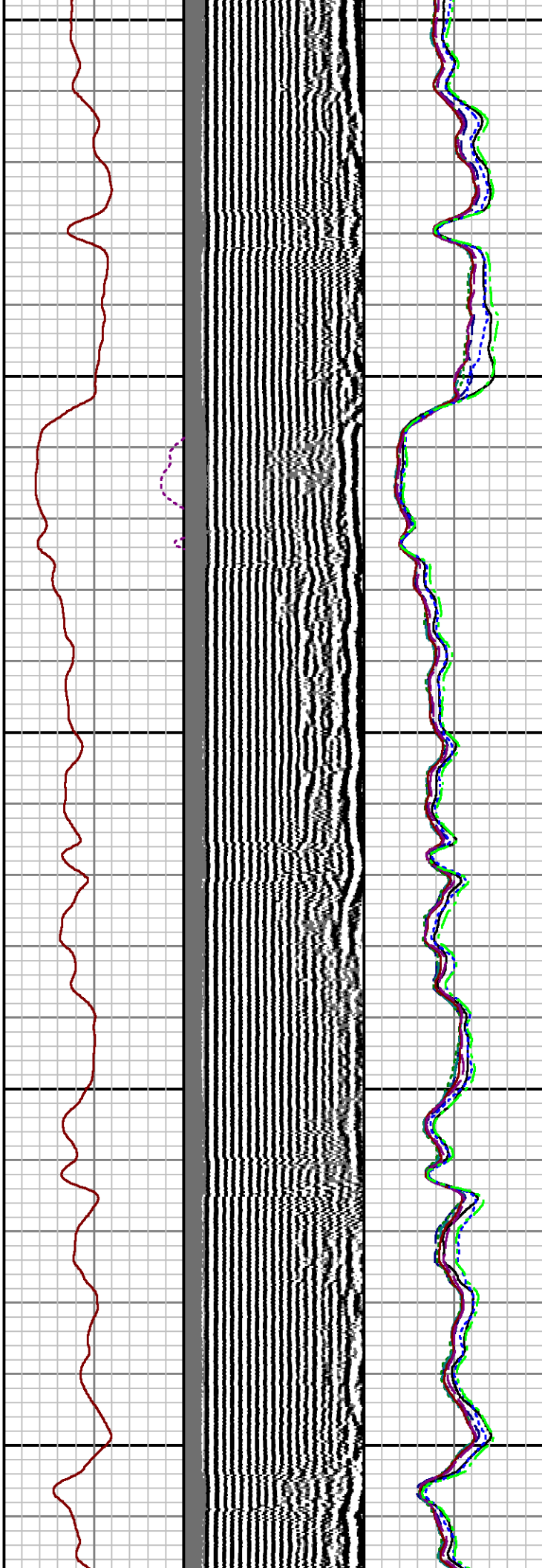


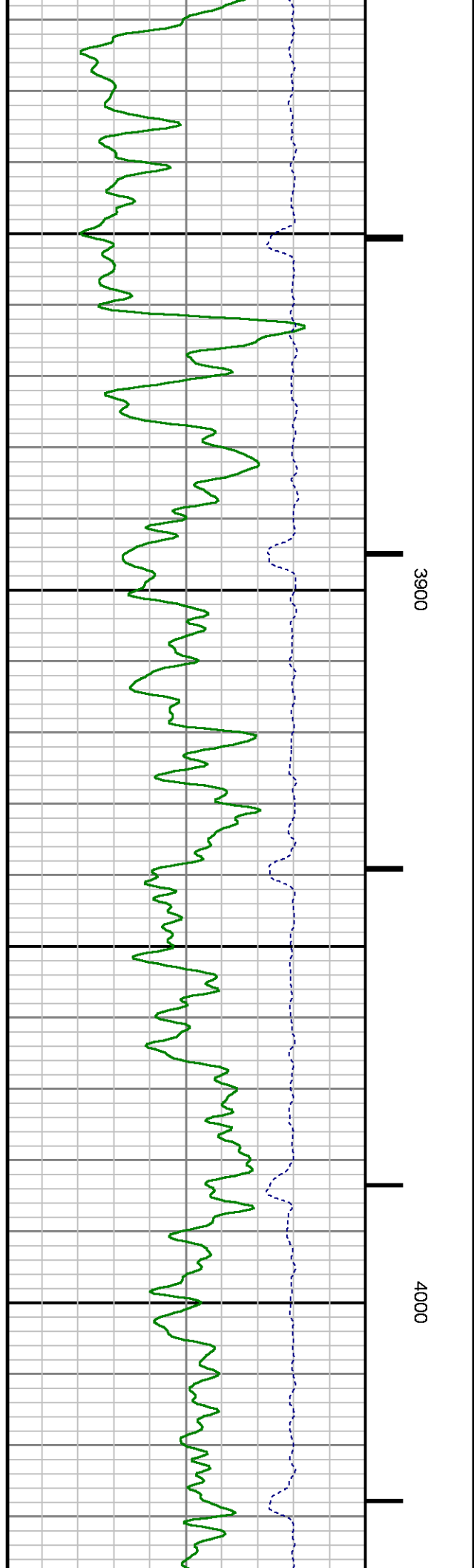
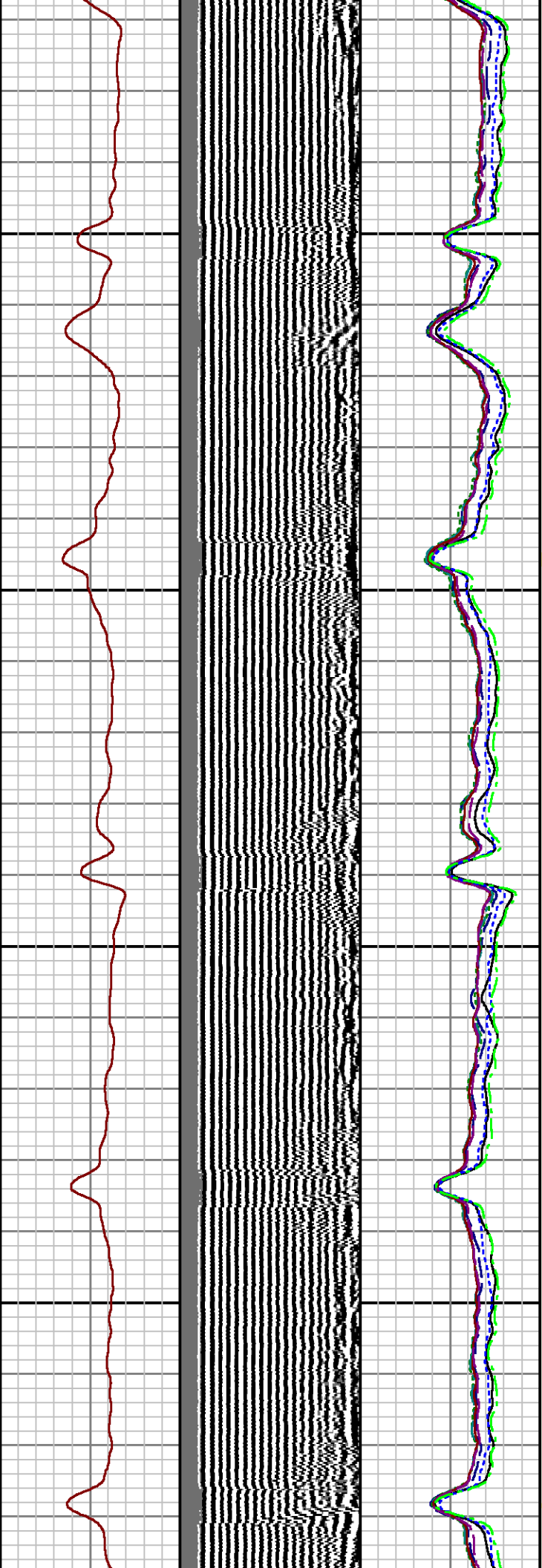
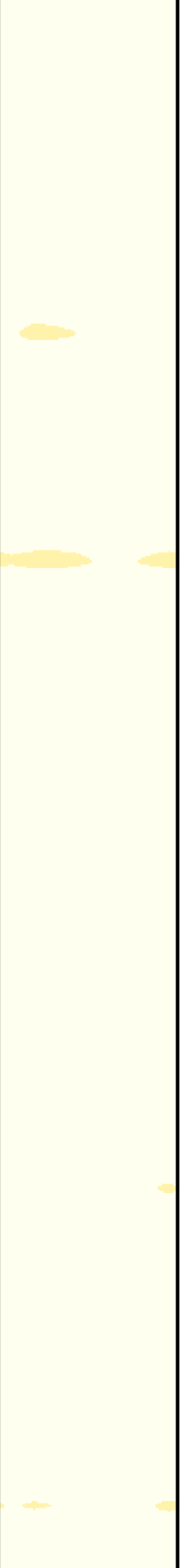
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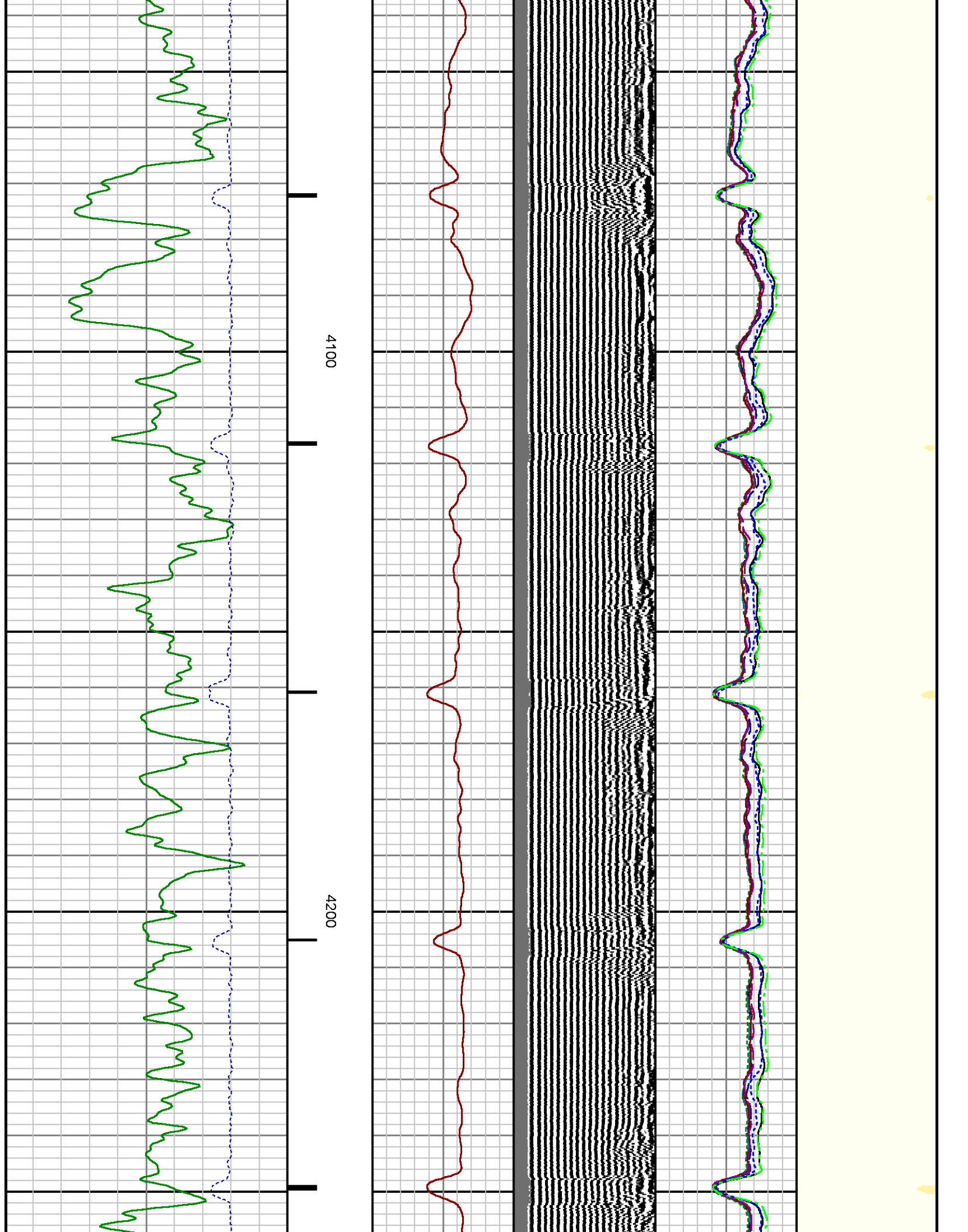
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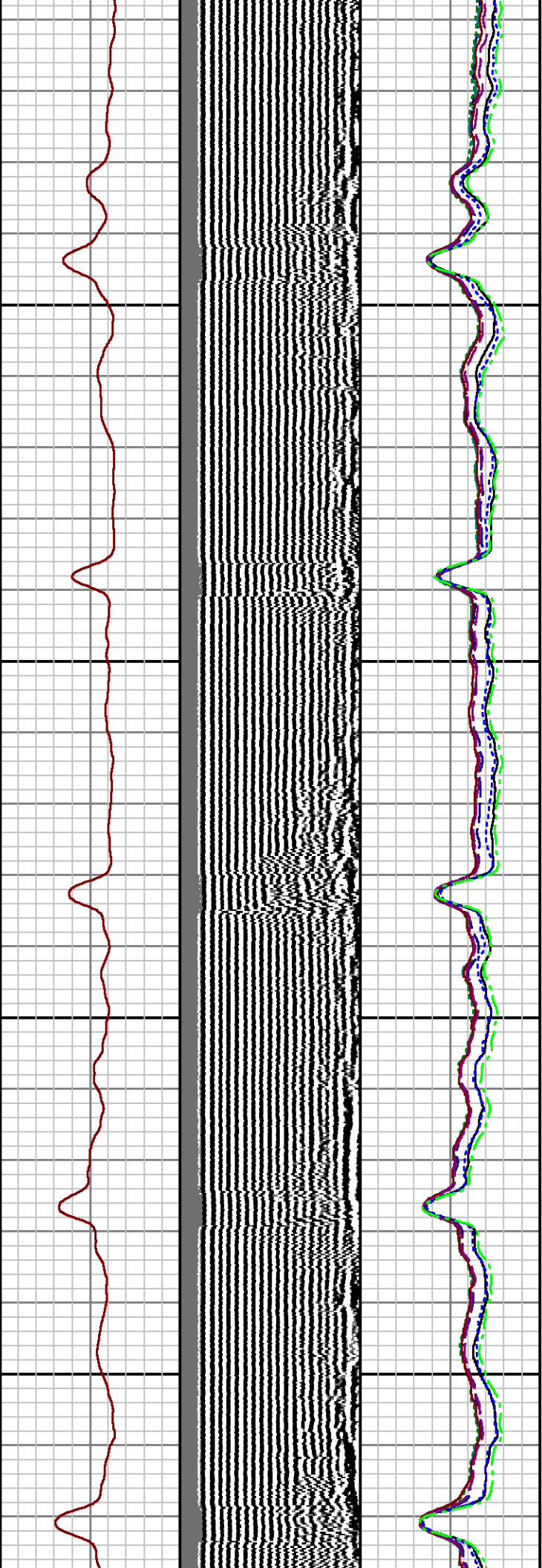
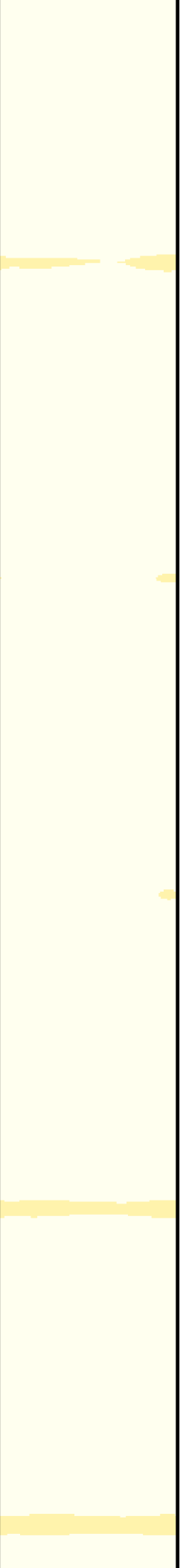






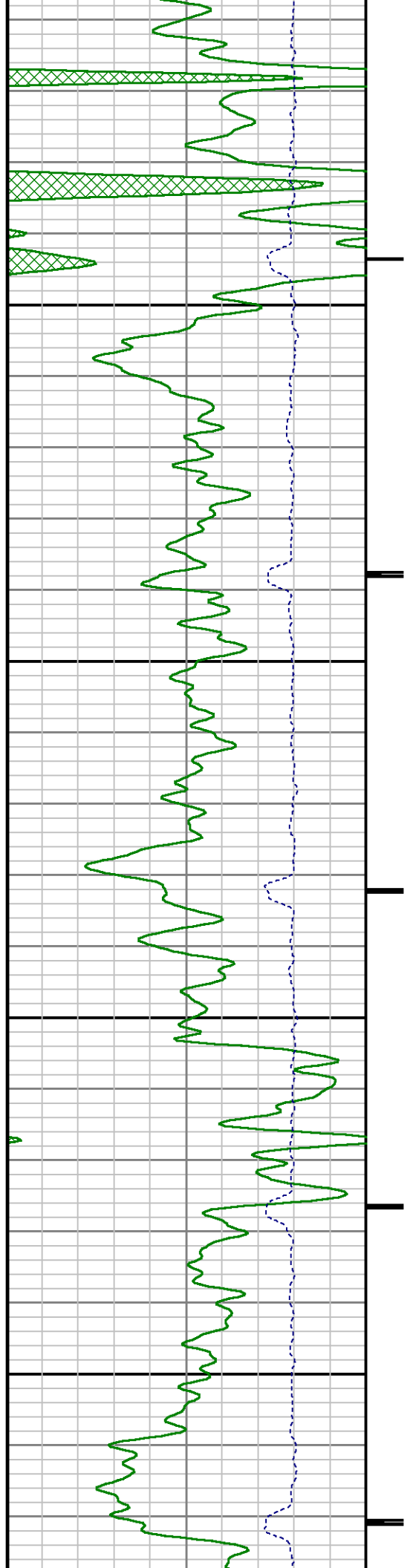


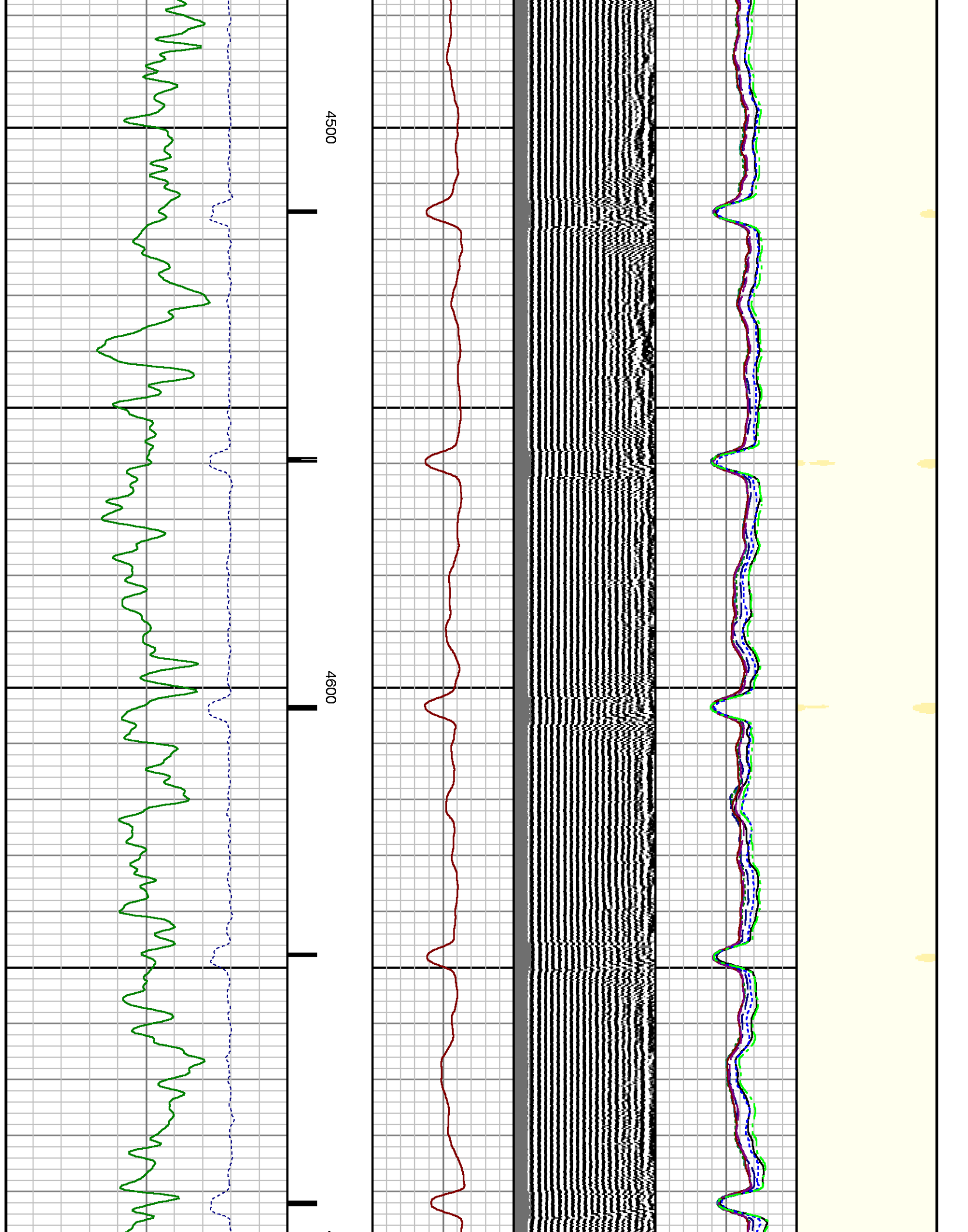


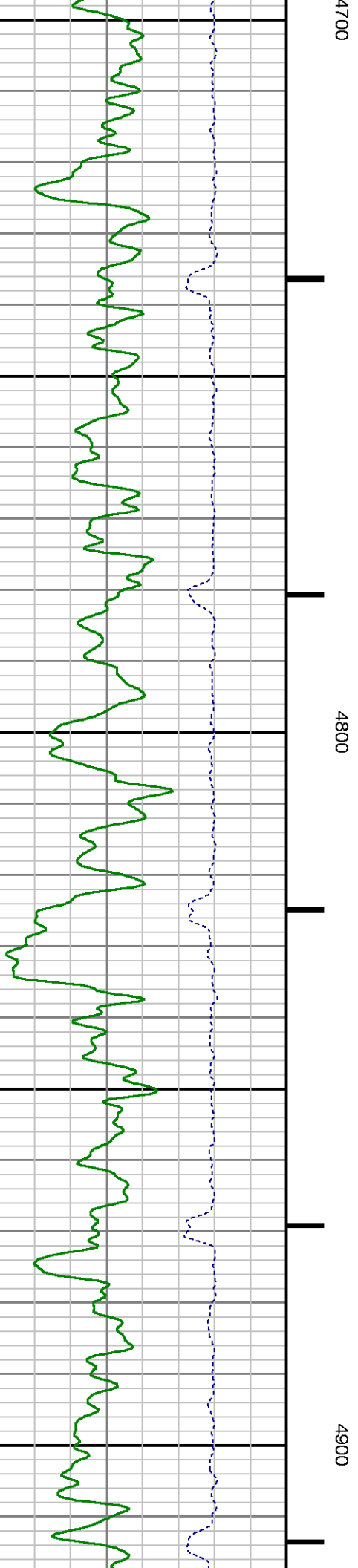
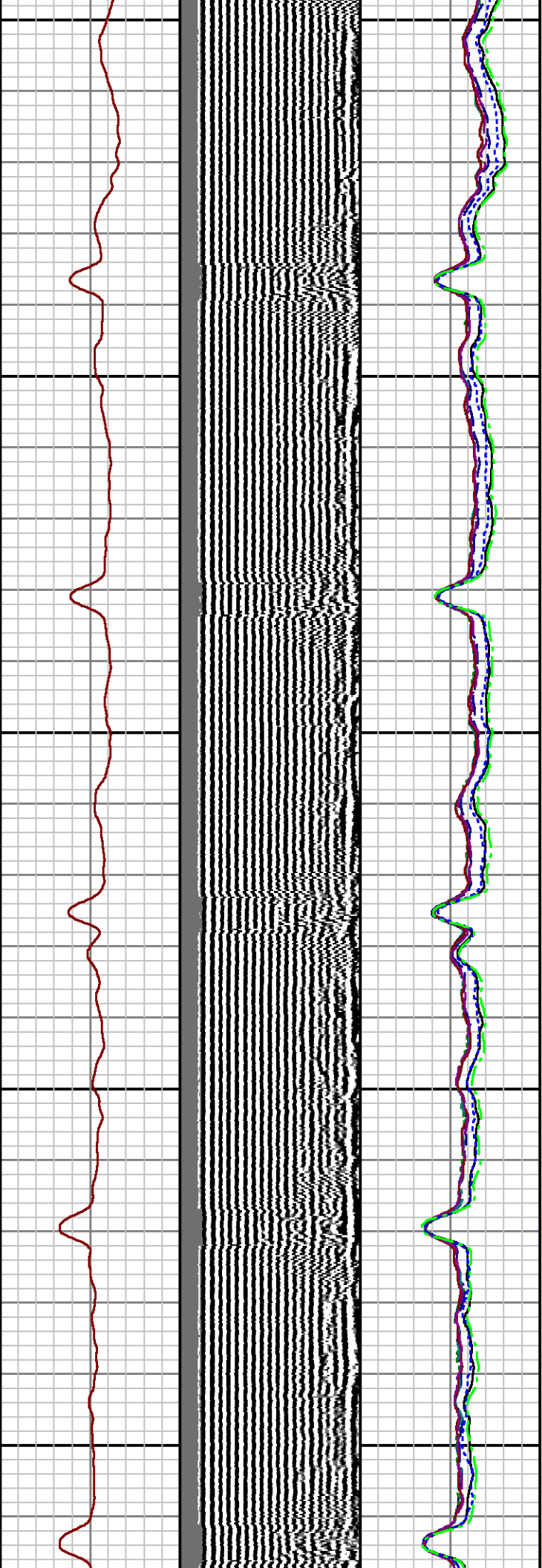
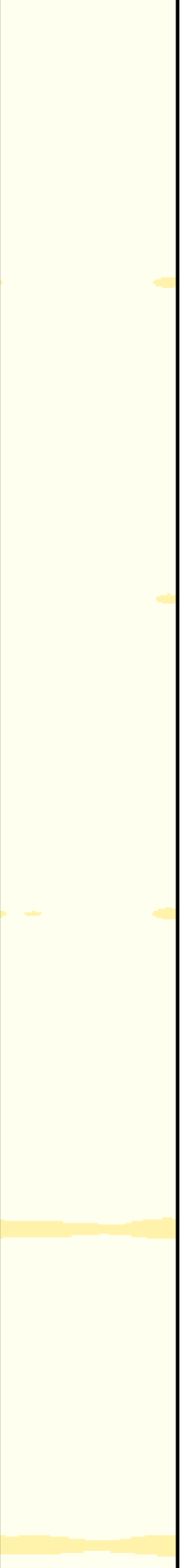


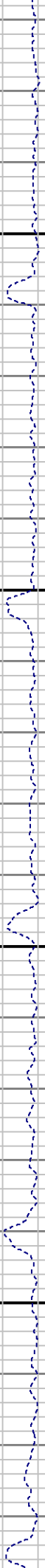
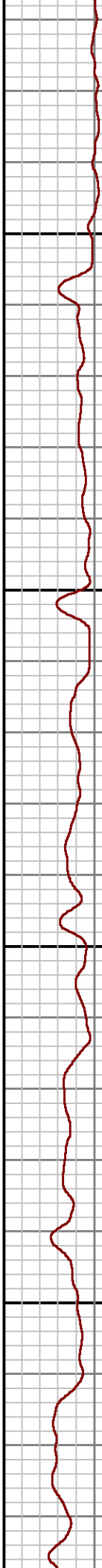
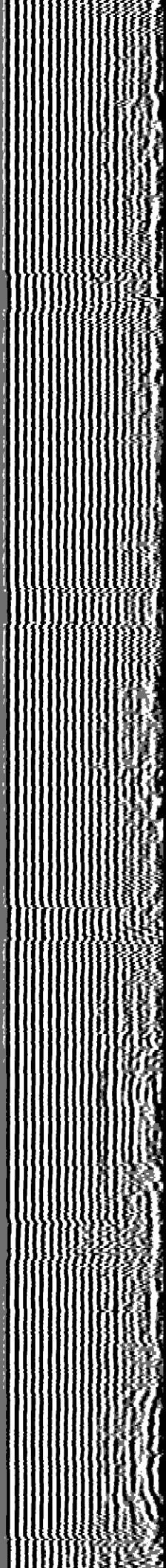
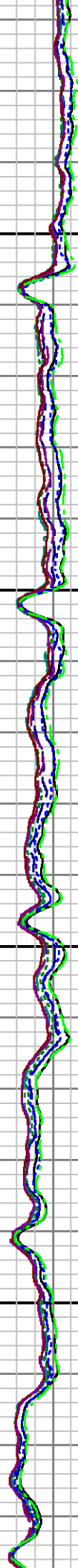
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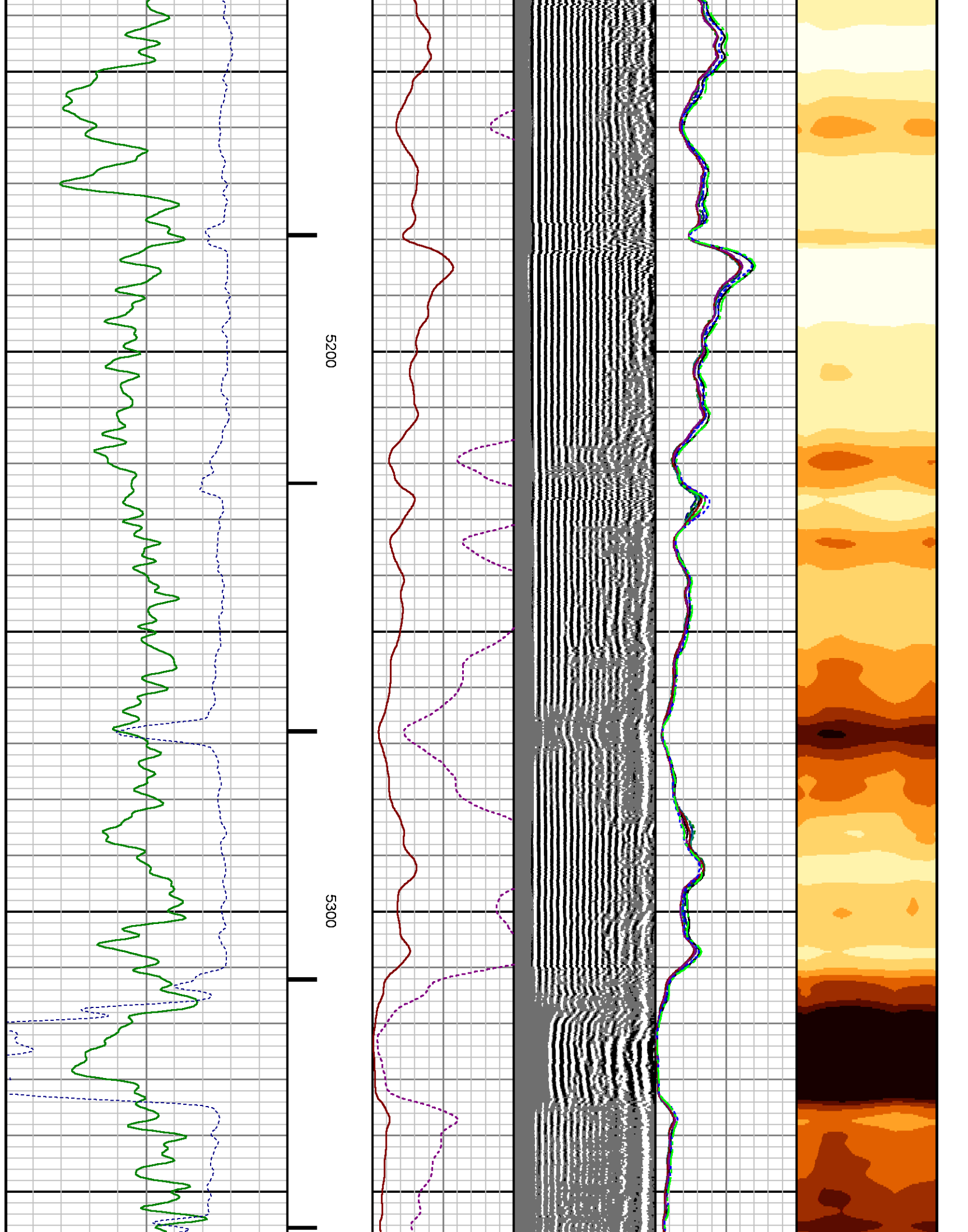
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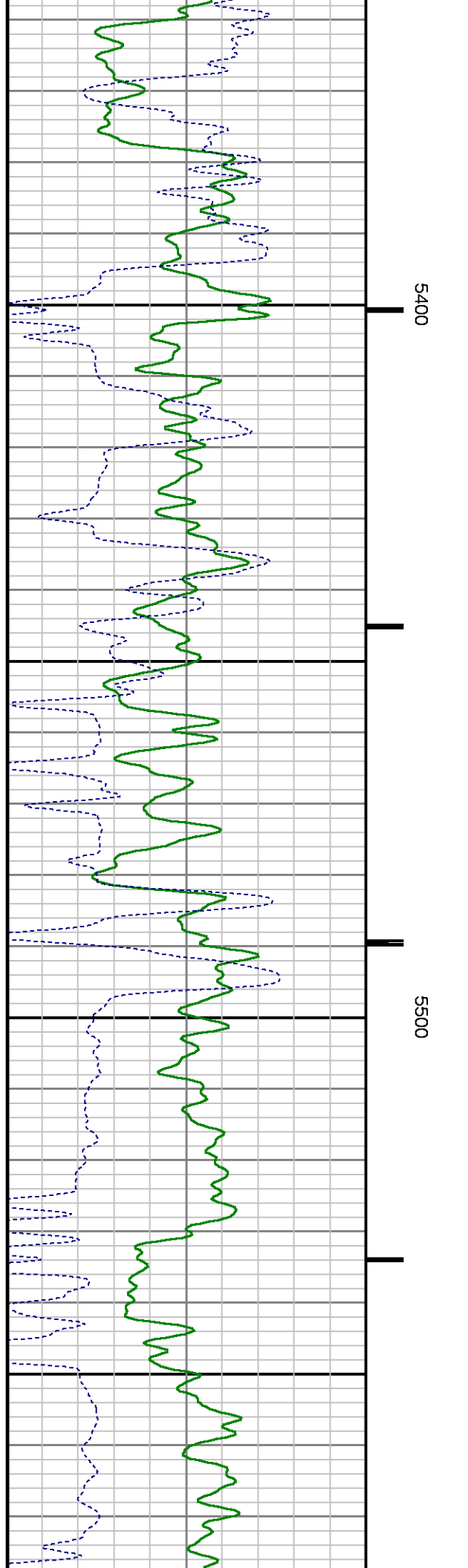
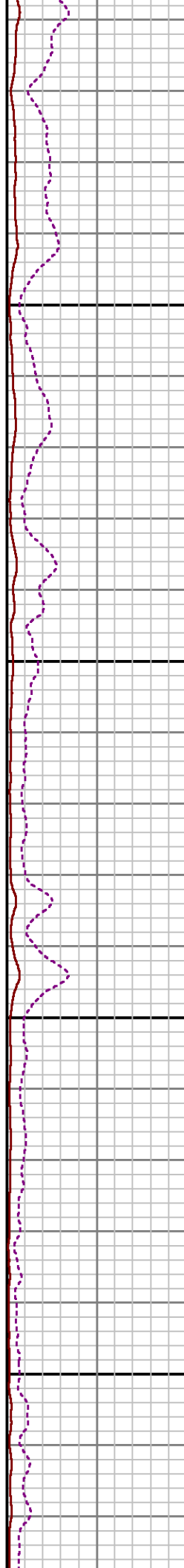
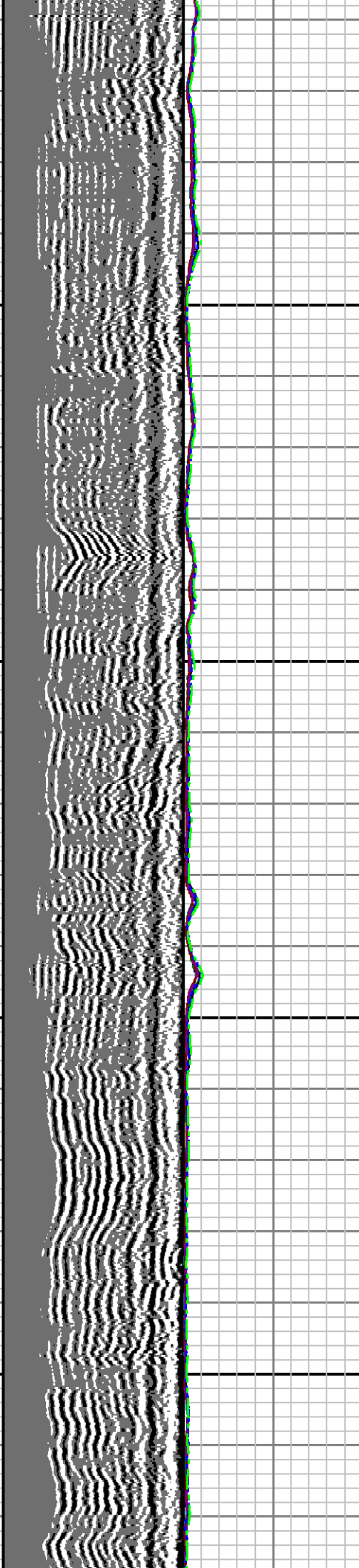


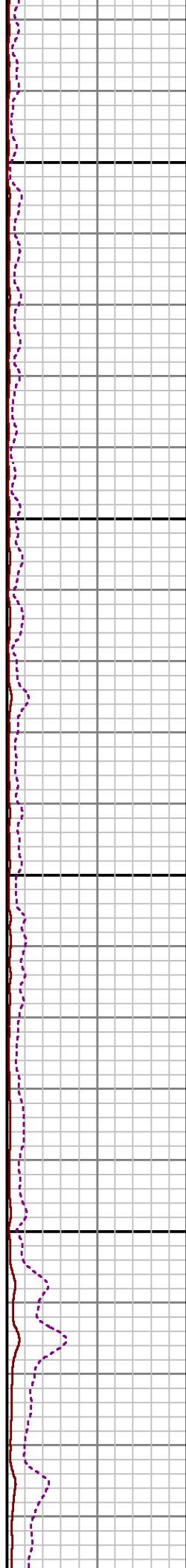
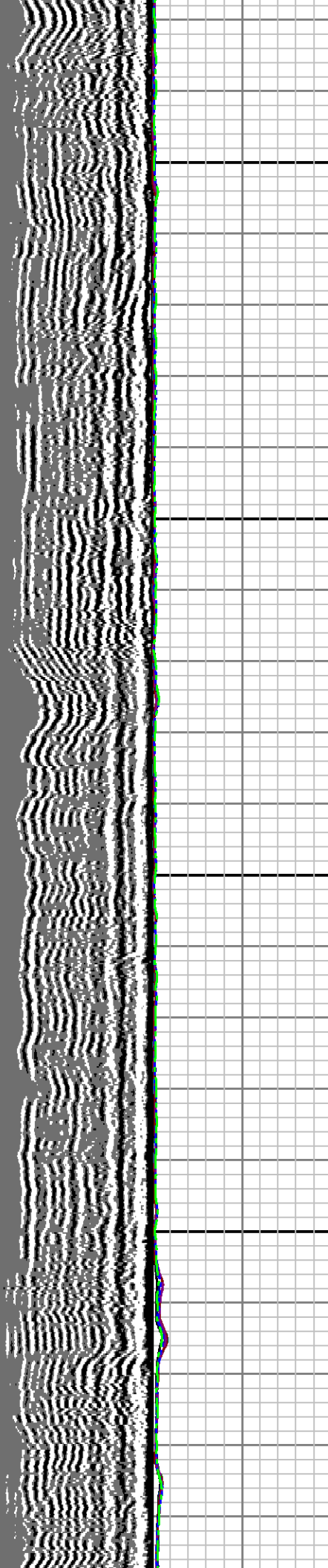
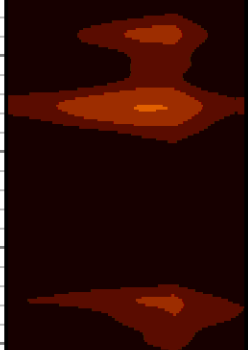






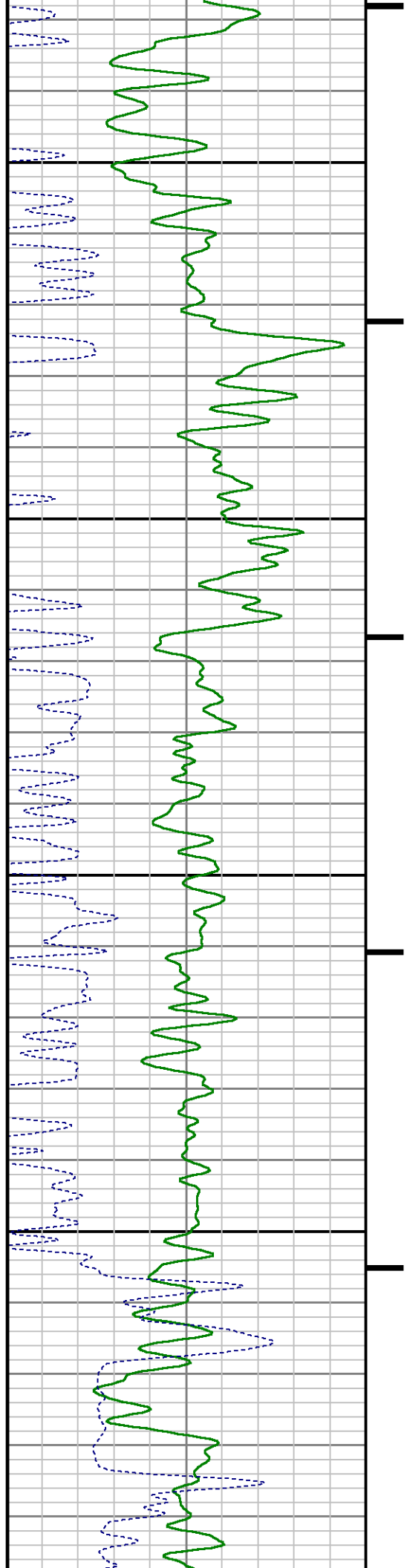


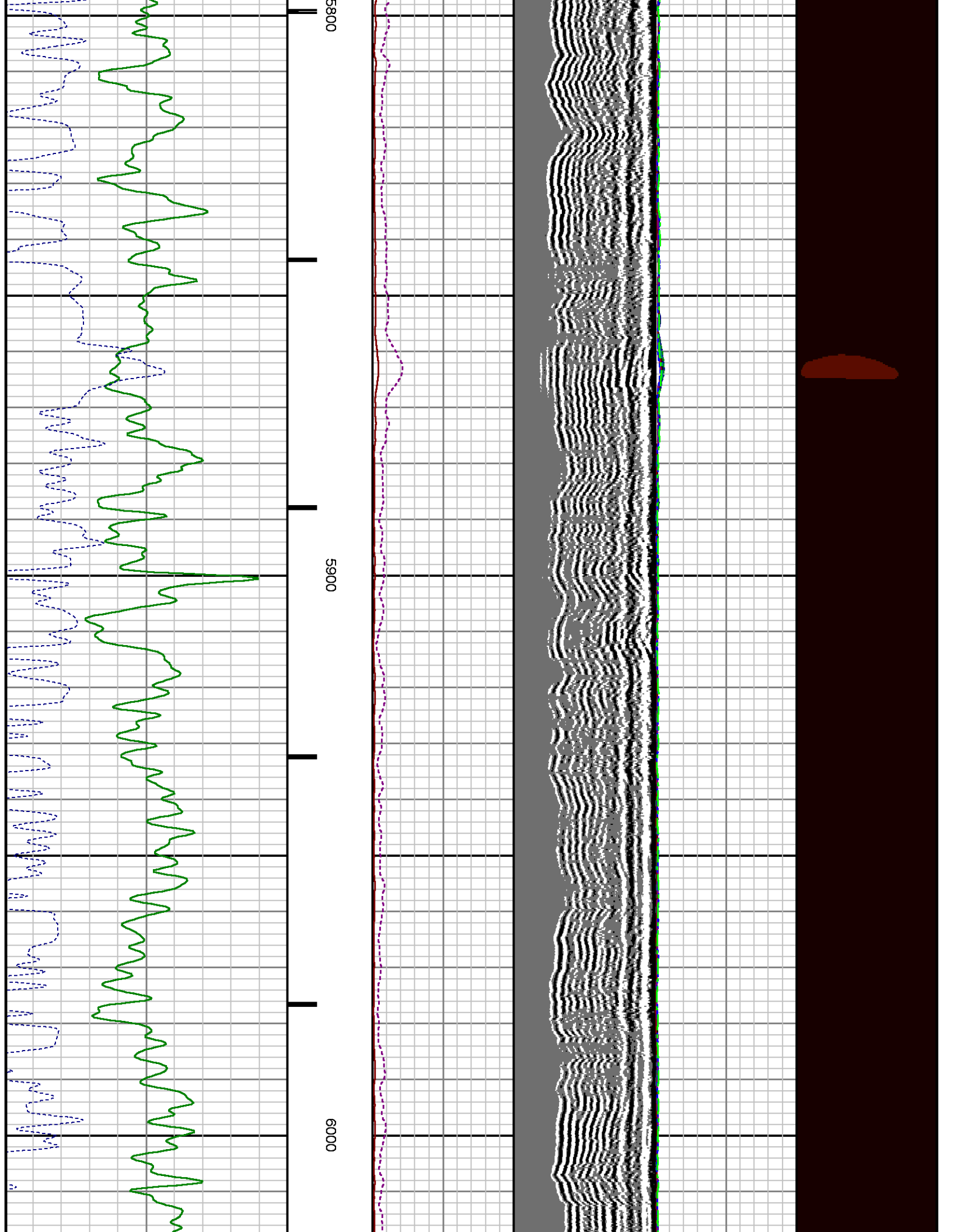


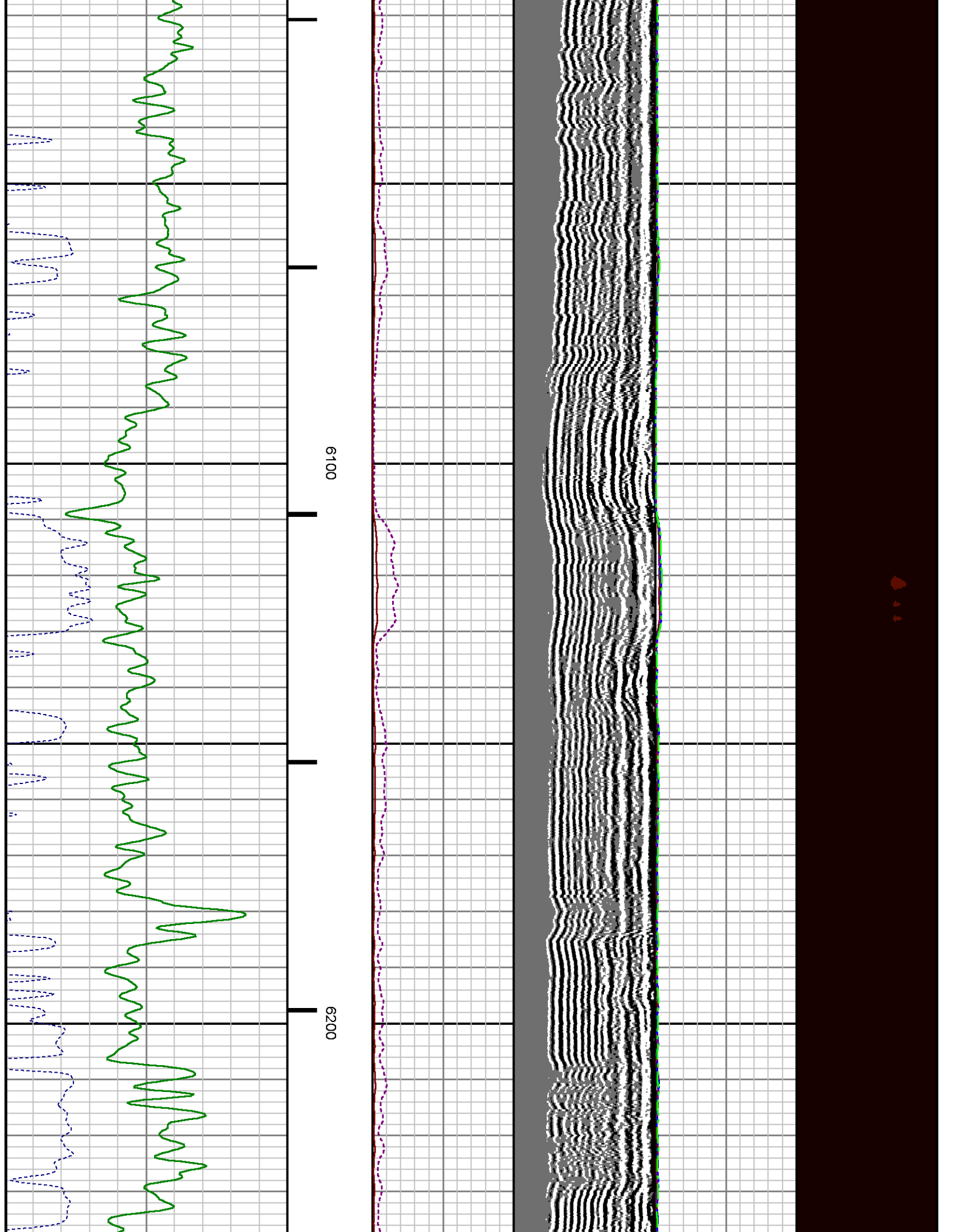


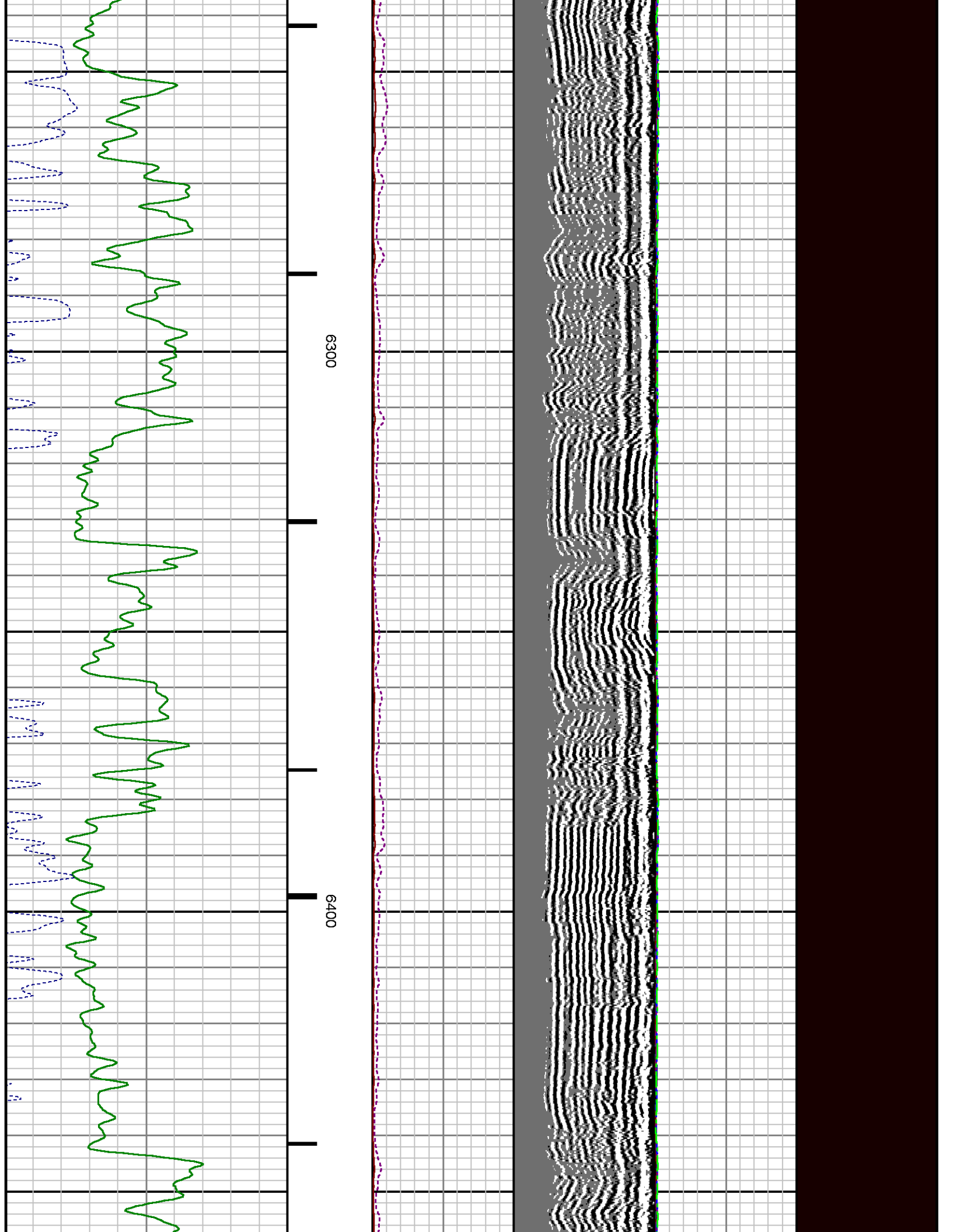
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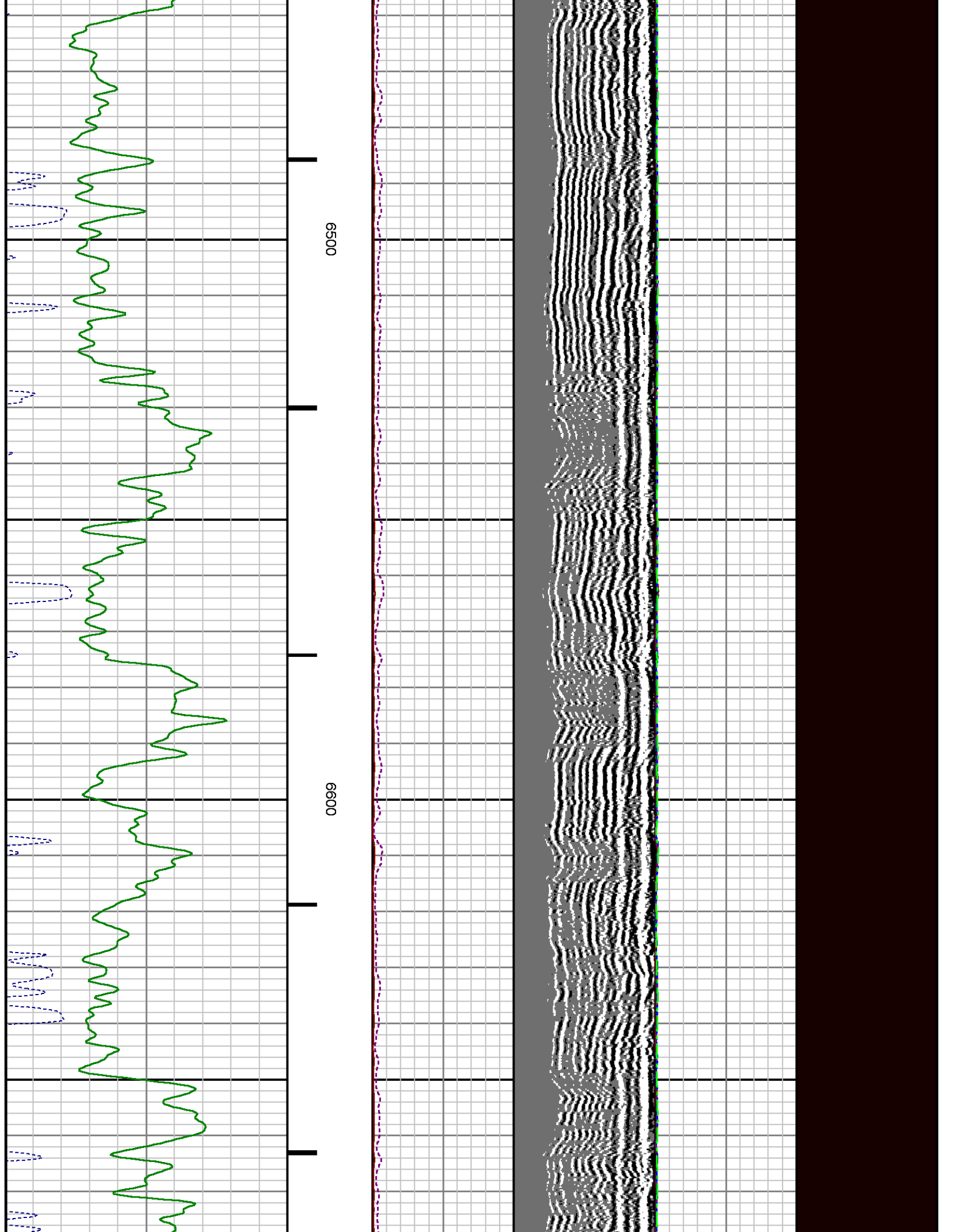
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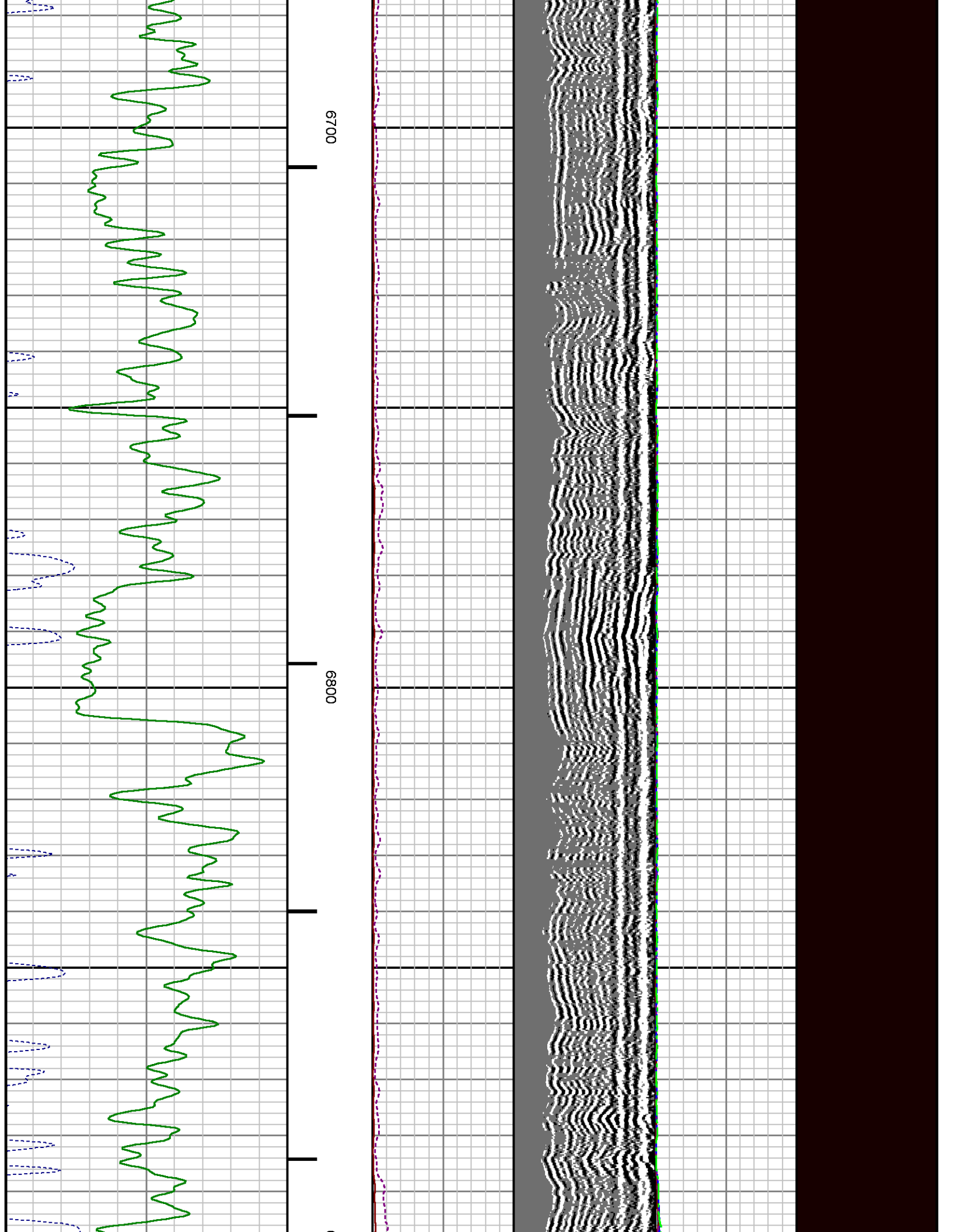


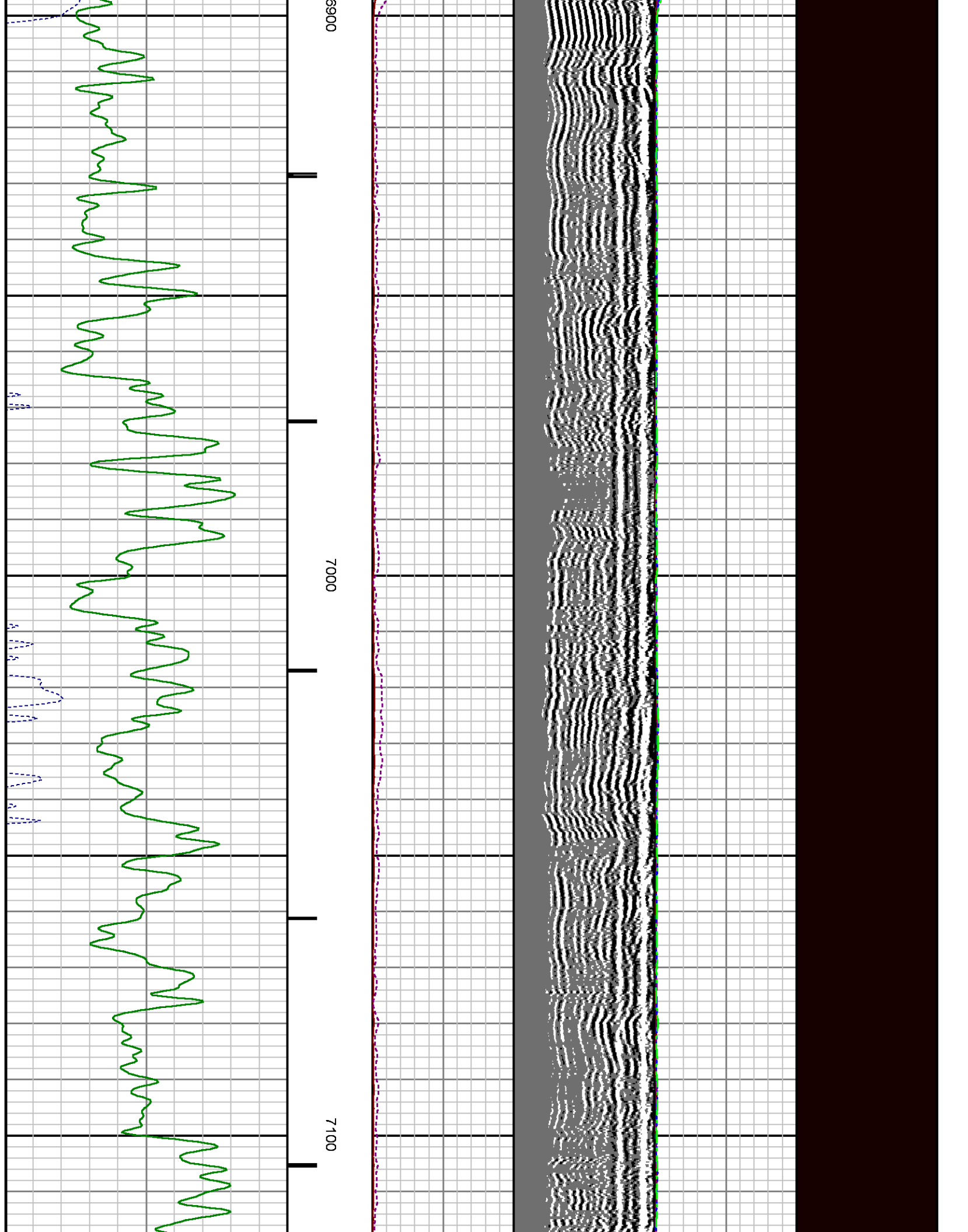


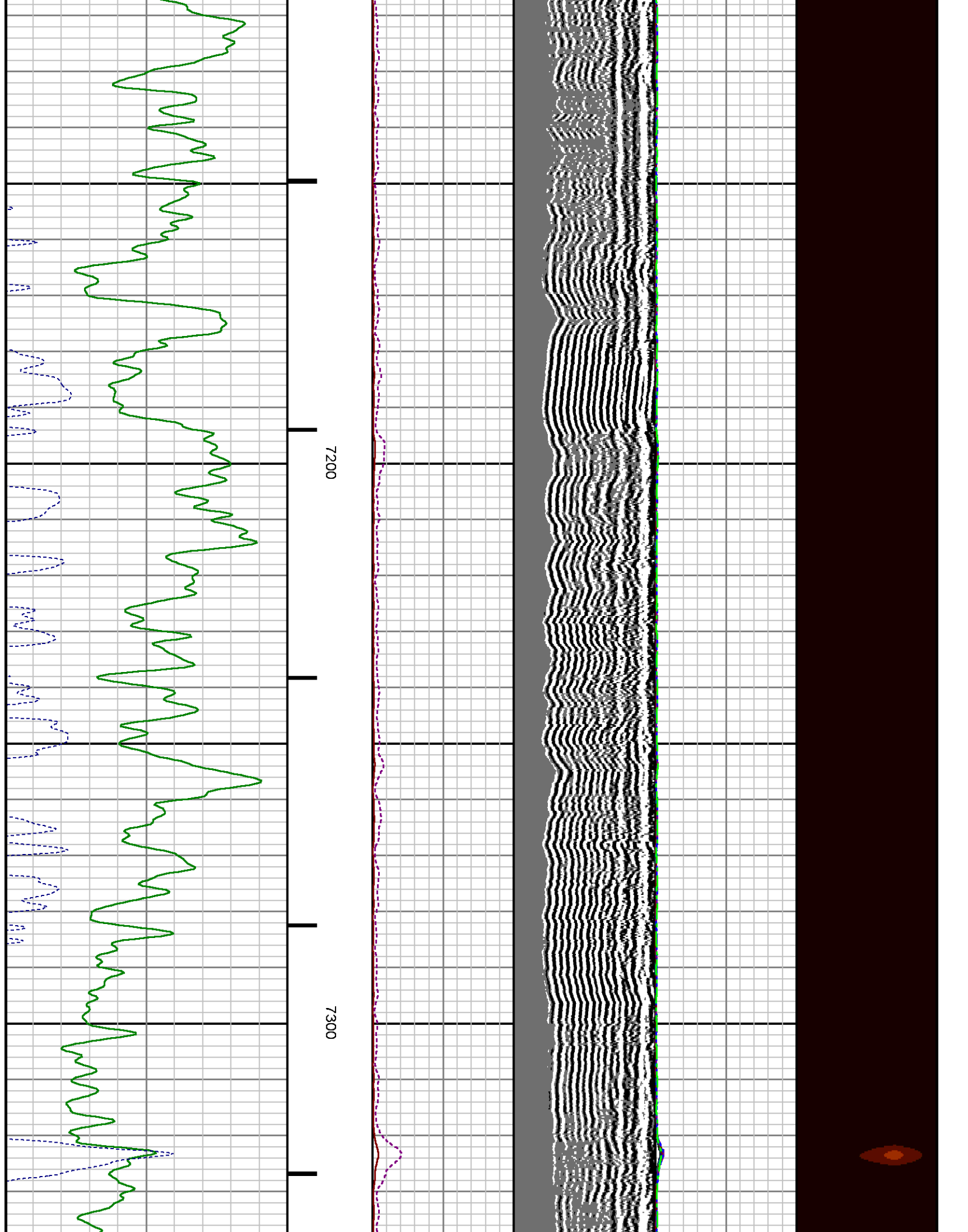


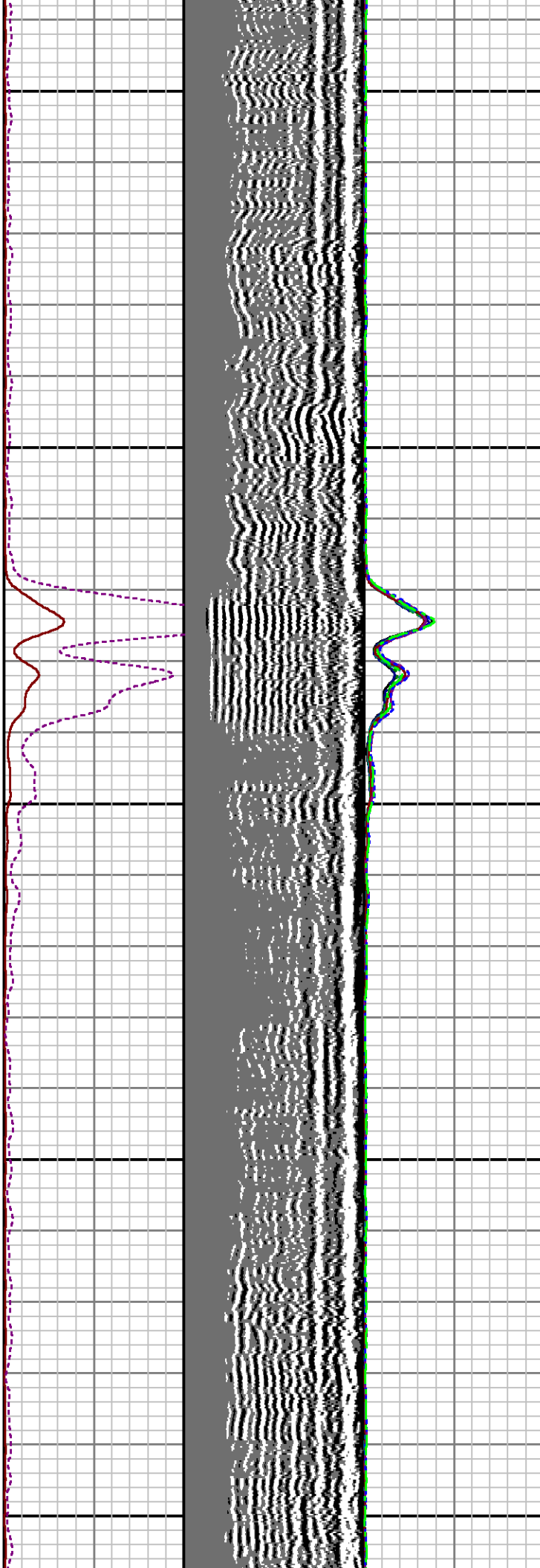
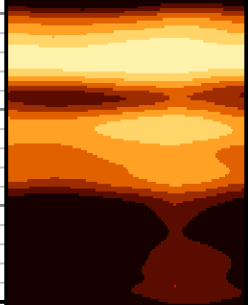






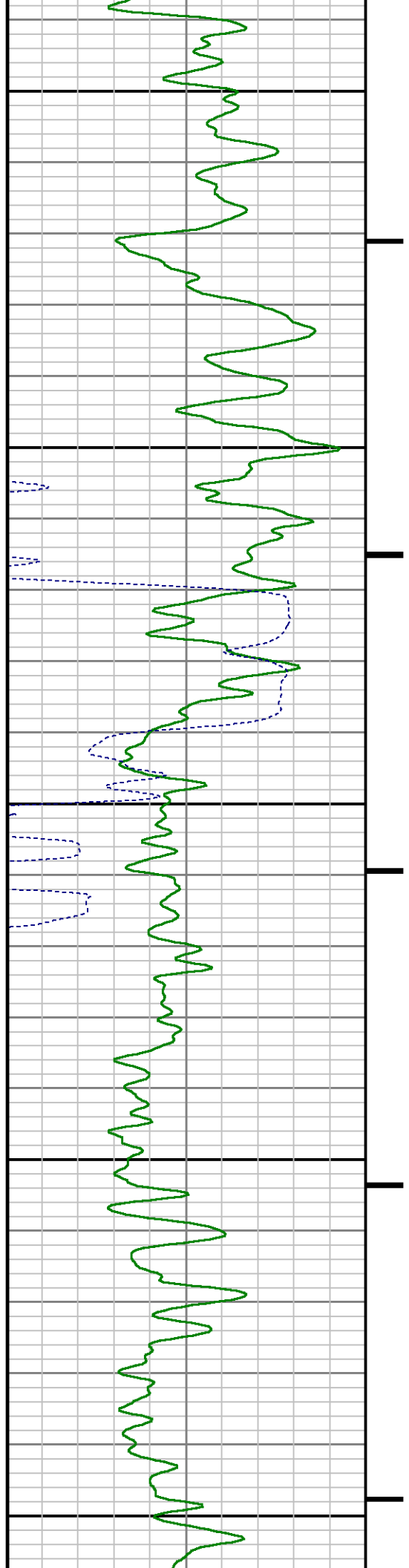


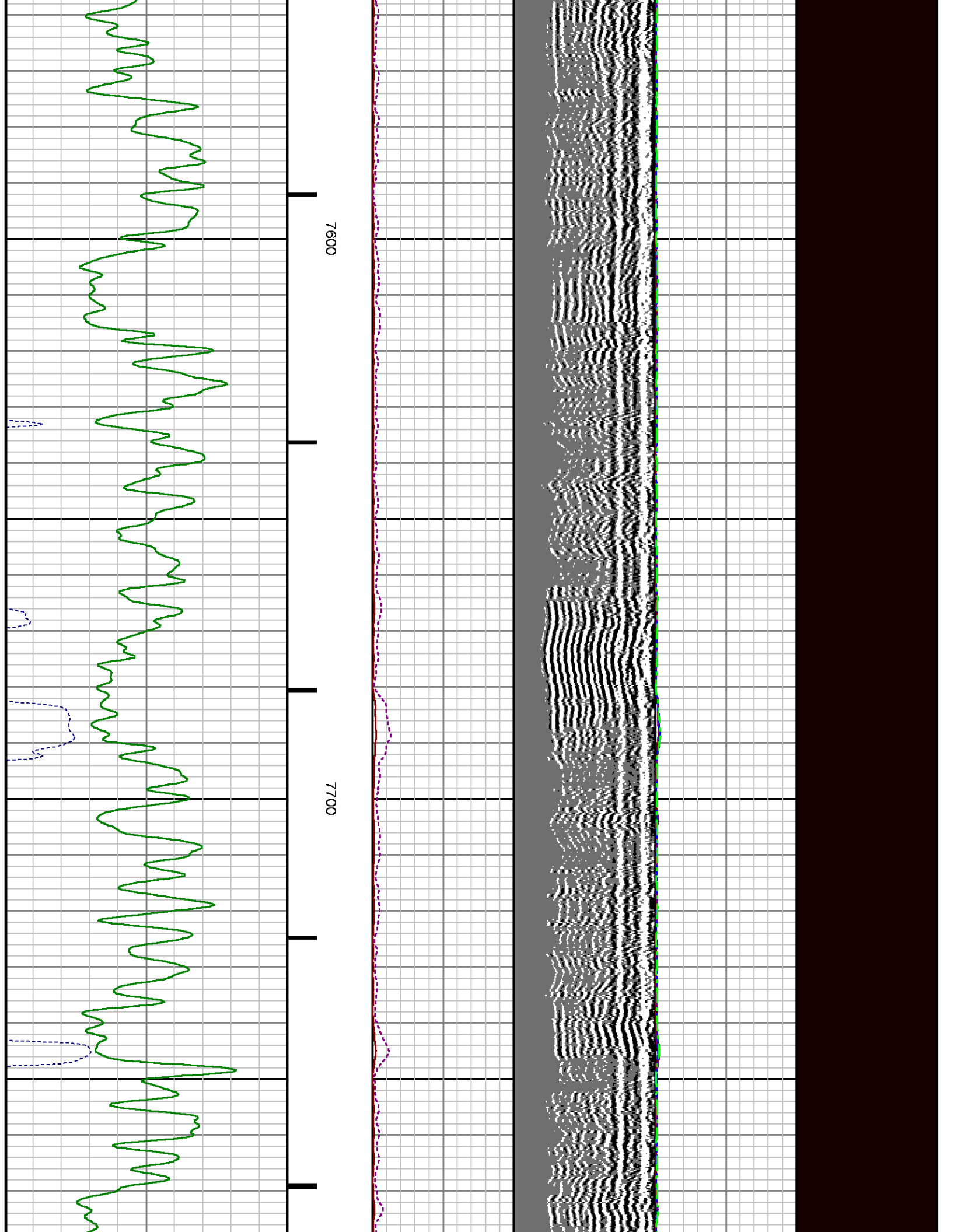


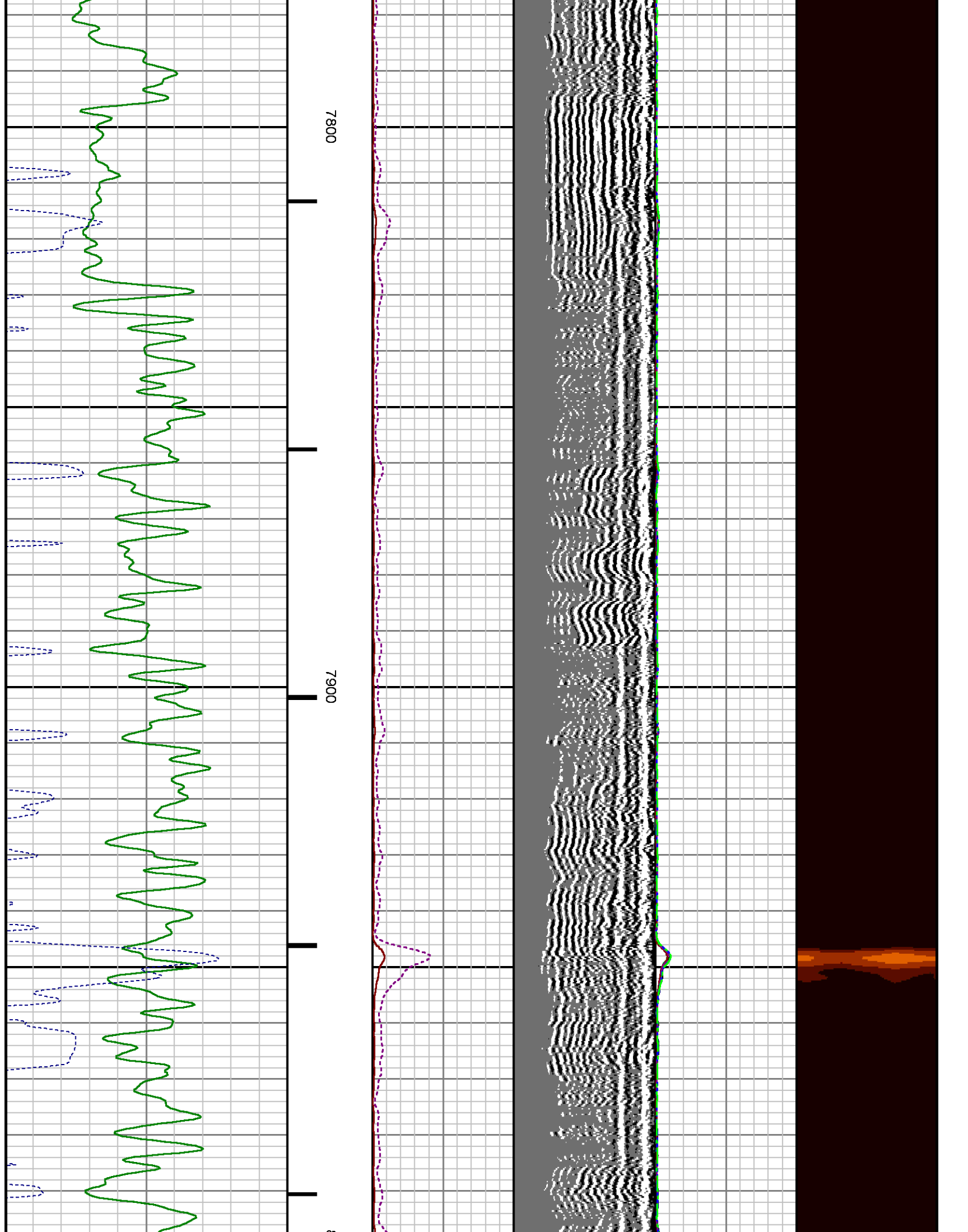


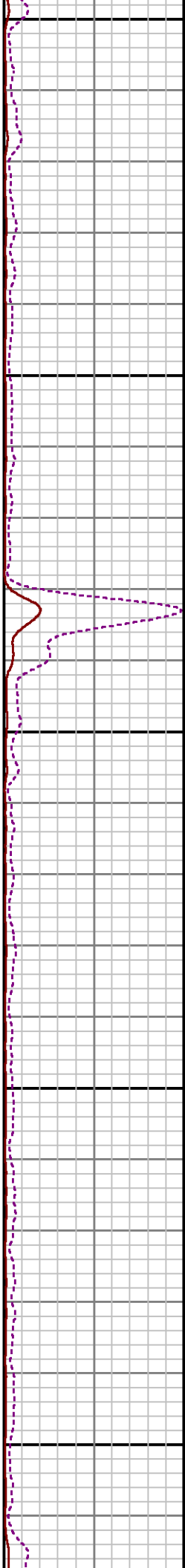
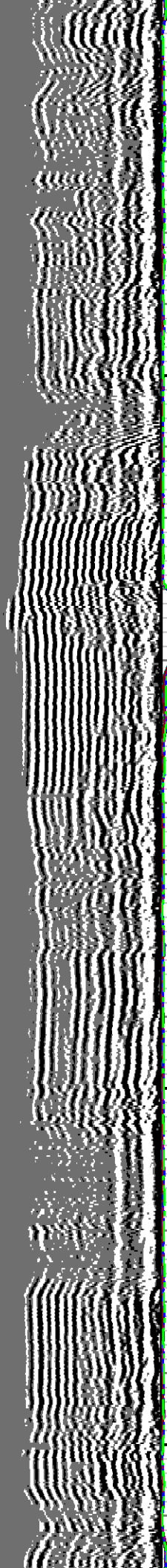
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7500





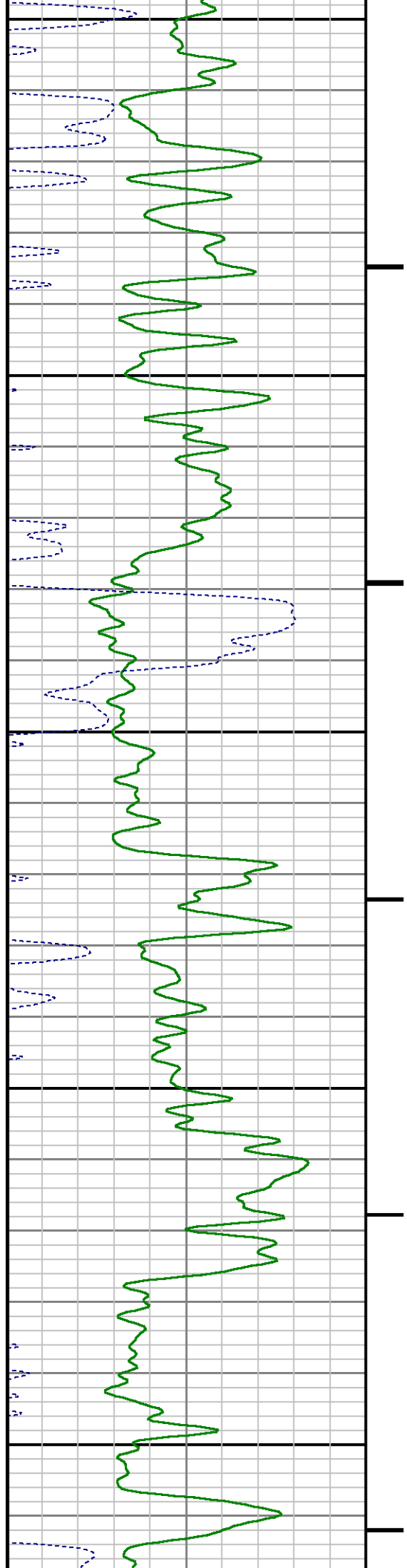


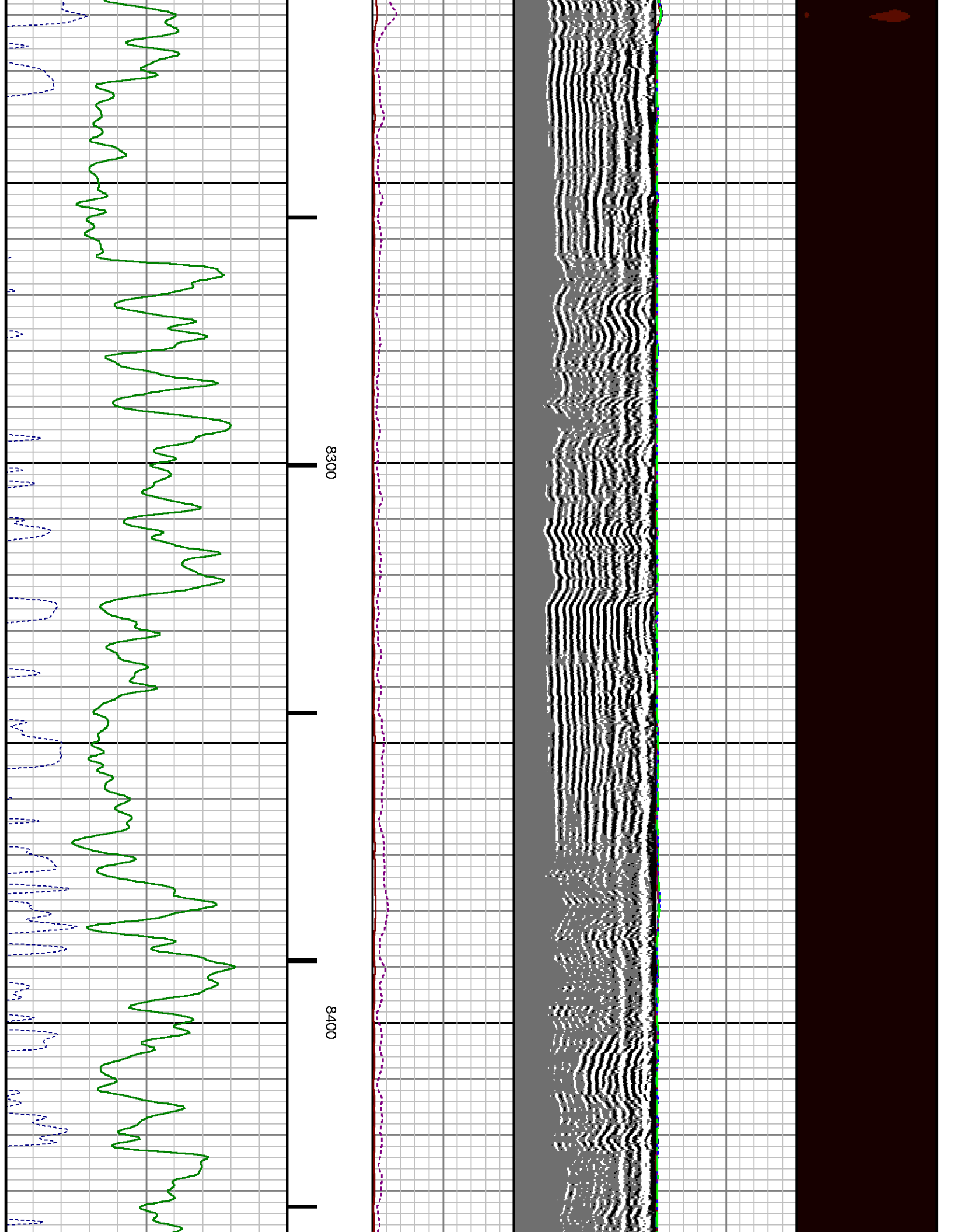


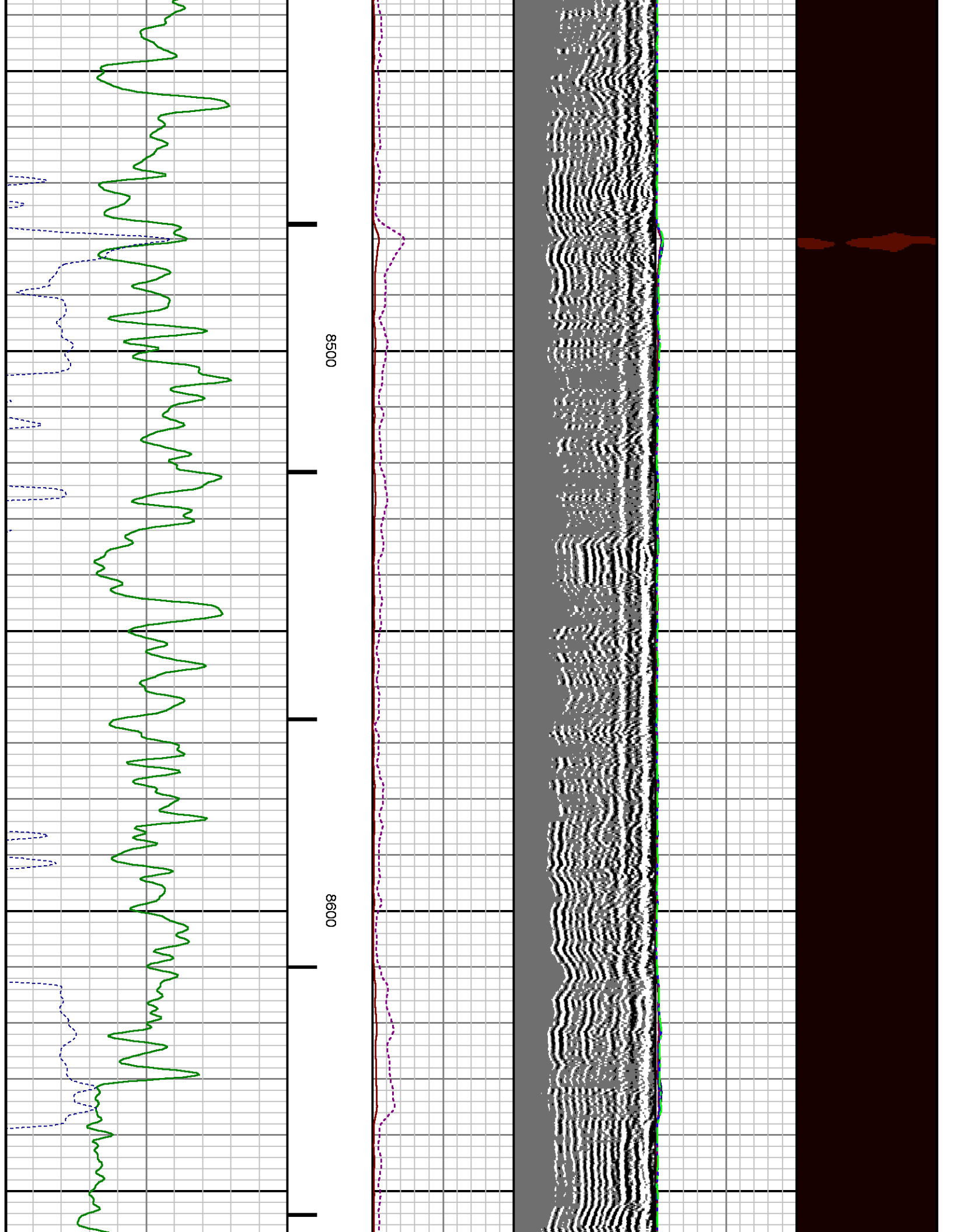
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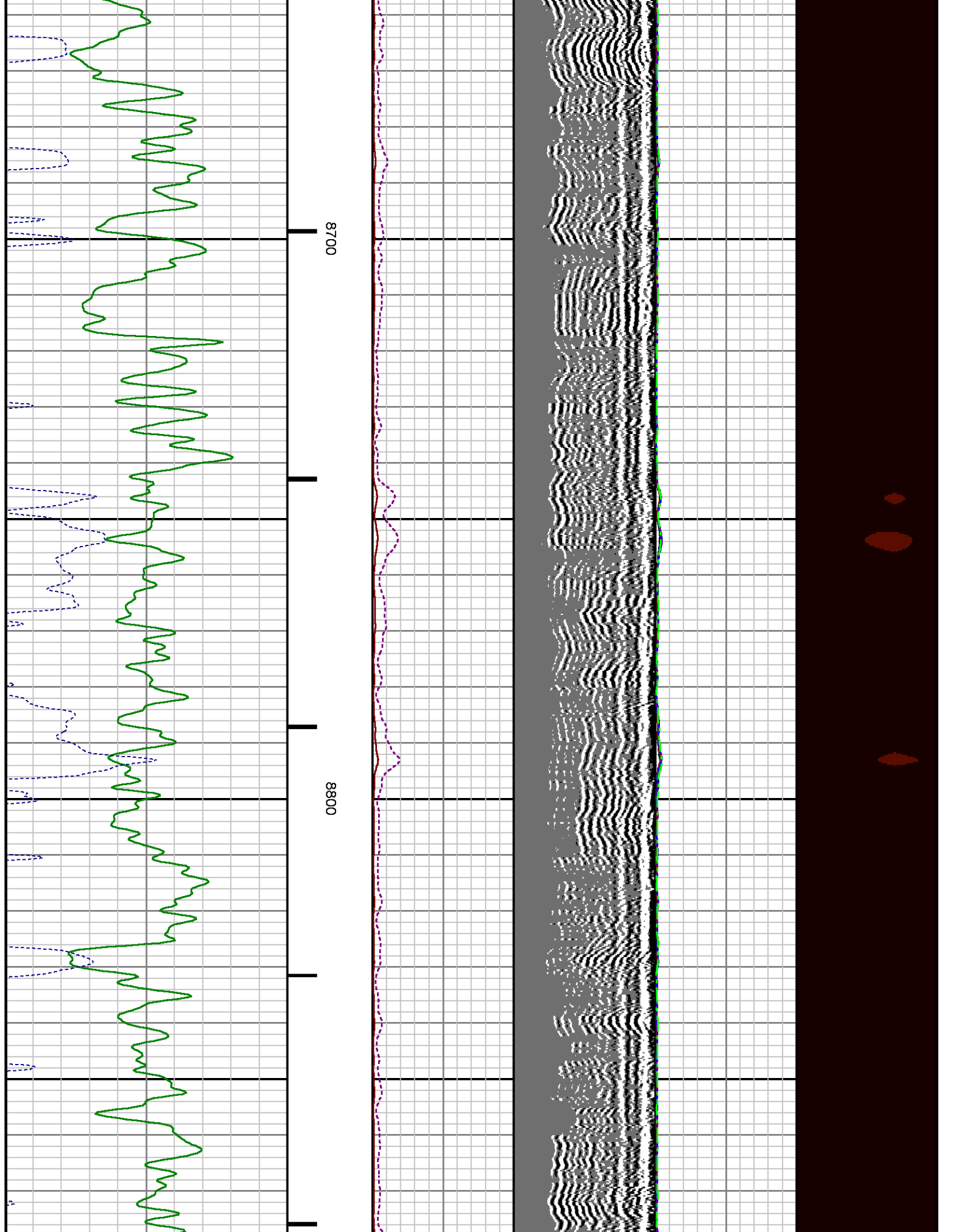
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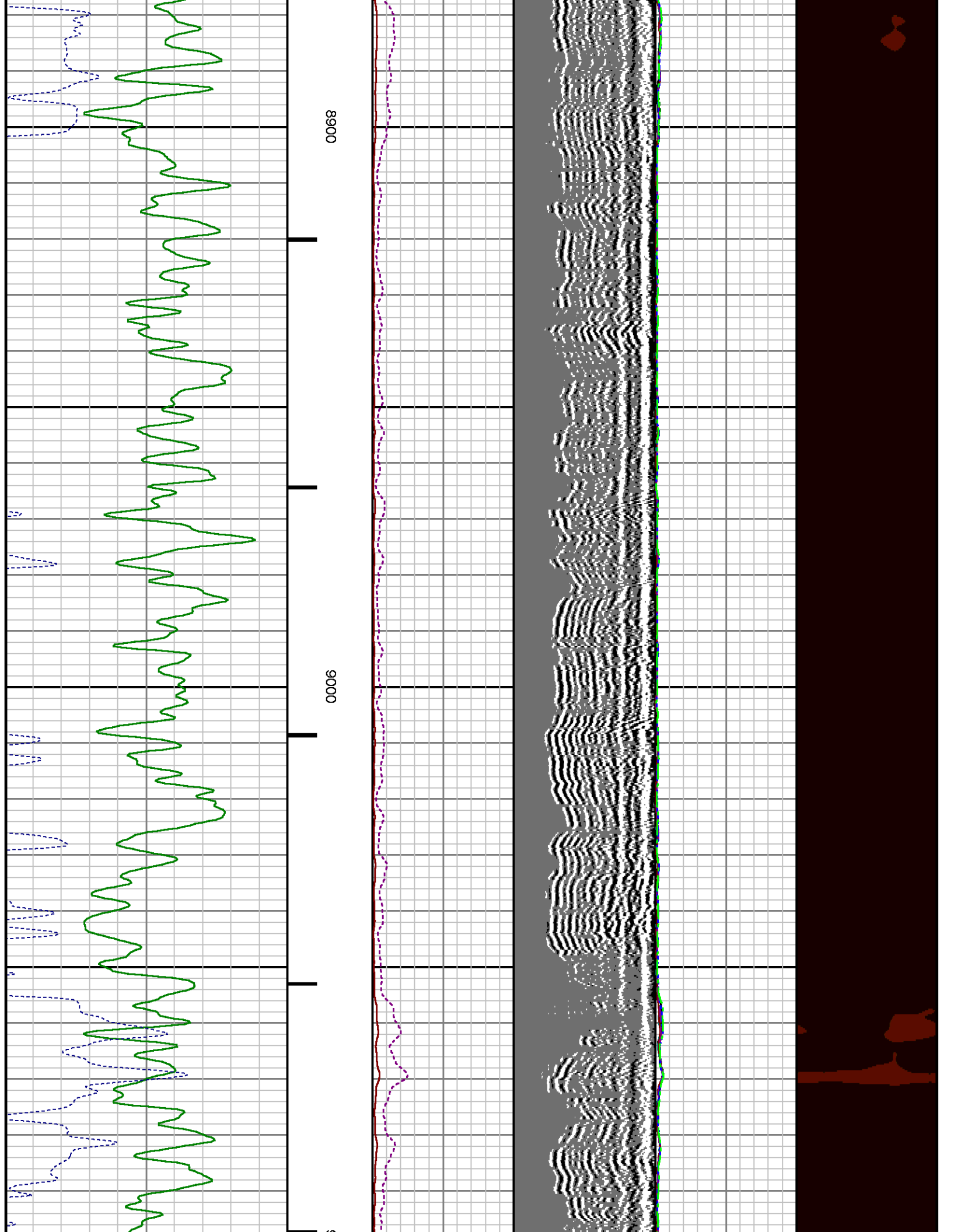
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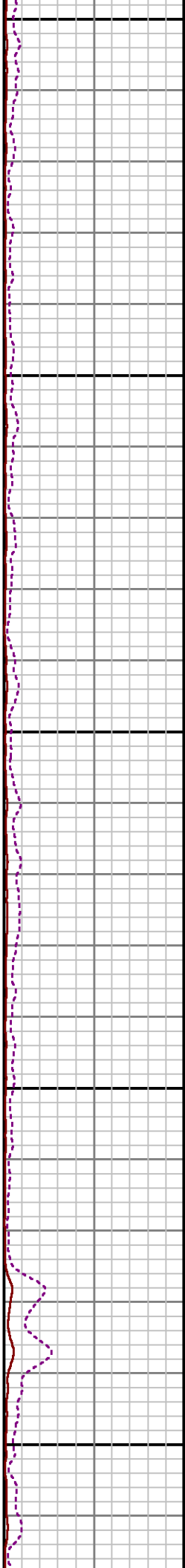
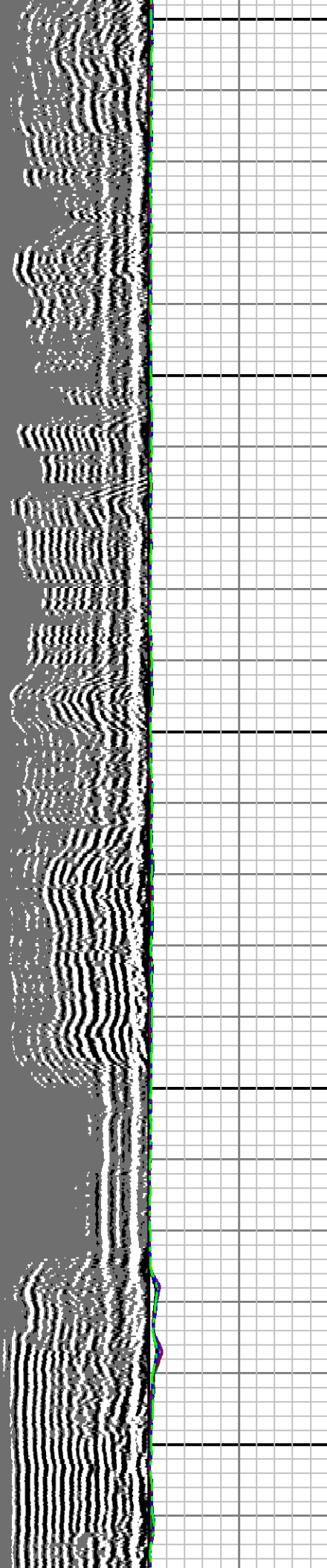








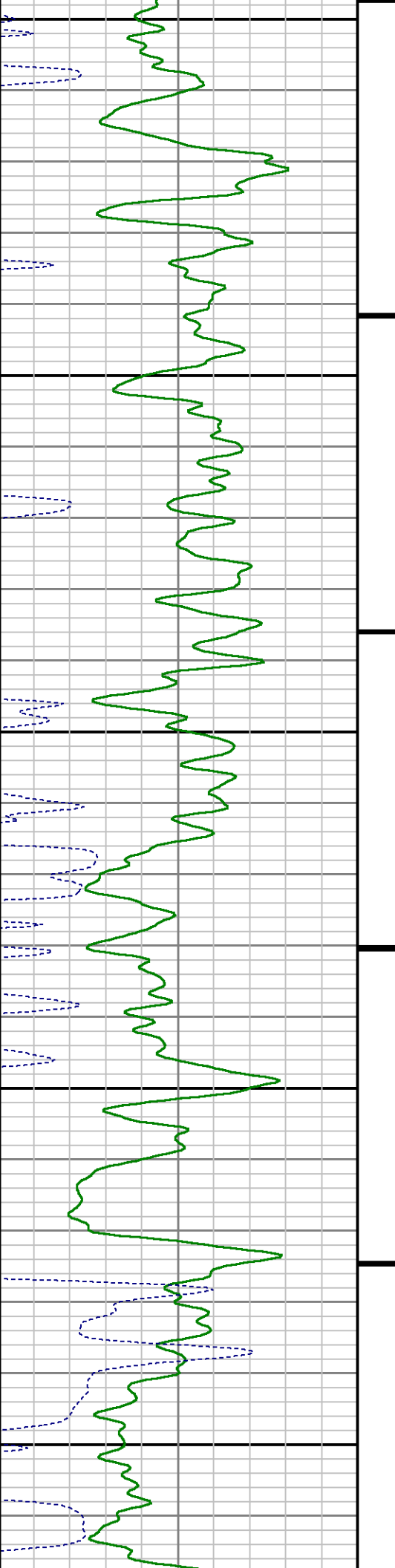


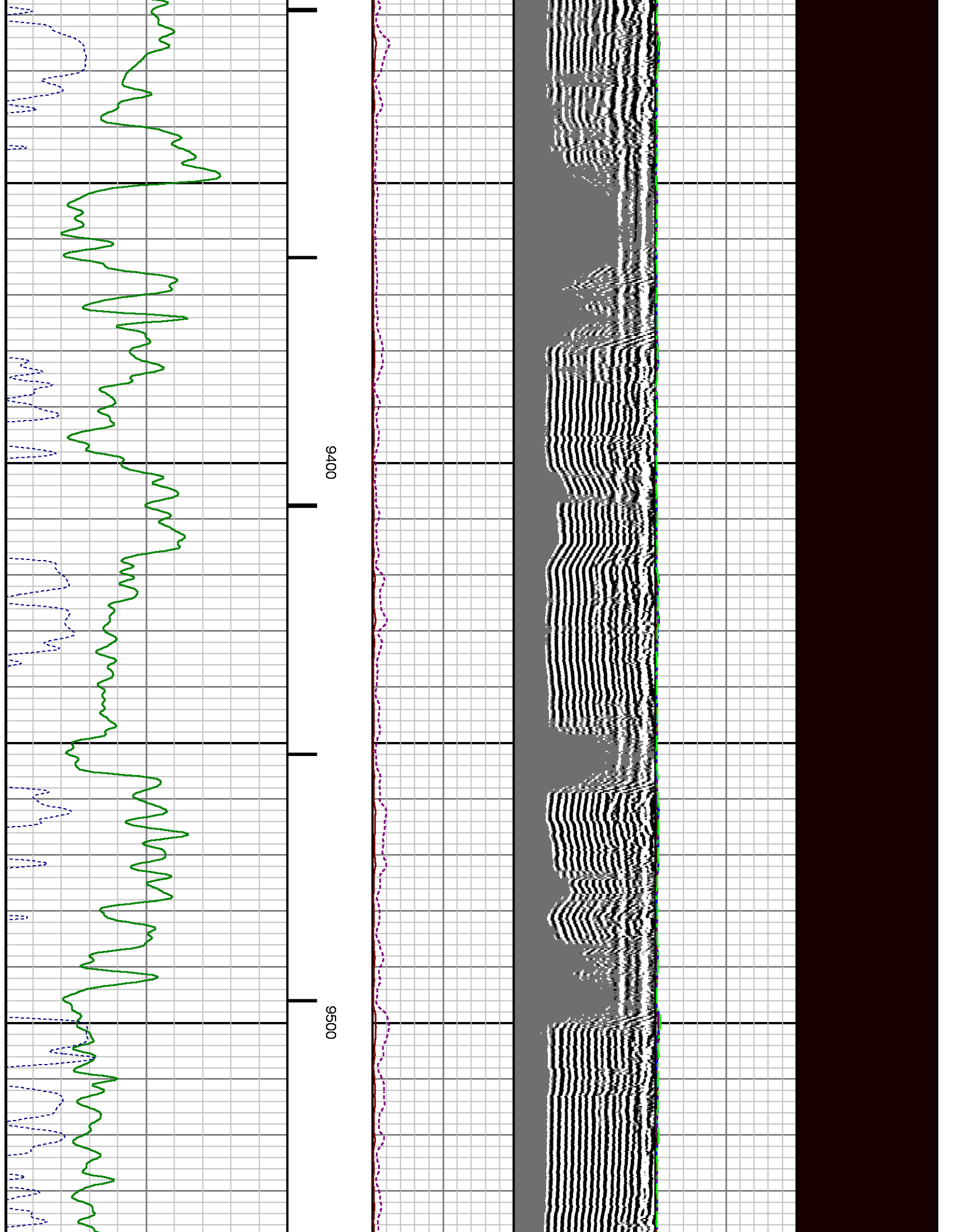


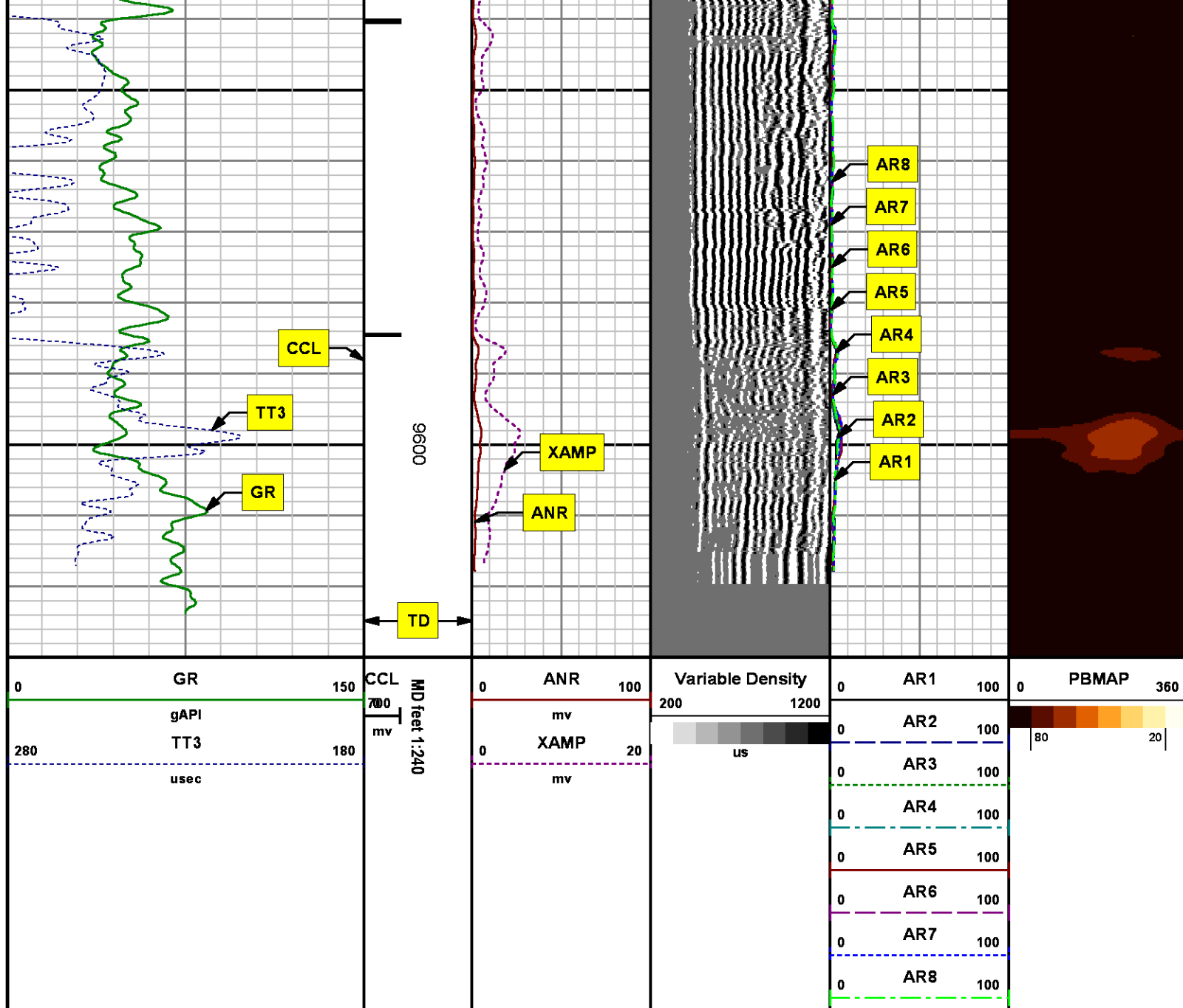
9100

9200

9300







REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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RAL	Amp Gate Start Far	305.000	usec	9307.272	9634.430
RAL	Amp Gate Start Near	195.000	usec	9307.272	9634.430
RAL	Amp Gate Start Radial	195.000	usec	9307.272	9634.430
RAL	Amp Gate Width Far	25.000	usec	9307.272	9634.430
RAL	Amp Gate Width Near	25.000	usec	9307.272	9634.430
RAL	Amp Gate Width Radial	25.000	usec	9307.272	9634.430
RAL	casing od	4.500	inches	9307.272	9634.430
RAL	casing wt	11.600	lbm/ft	9307.272	9634.430
RAL	FB Start Far	291.900	usec	9307.272	9634.430
RAL	FB Start Near	180.000	usec	9307.272	9634.430
RAL	FB Start Radial	180.000	usec	9307.272	9634.430
RAL	FB Thresh Far	10.000	mv	9307.272	9634.430
RAL	FB Thresh Near	4.000	mv	9307.272	9634.430
RAL	FB Thresh Radial	4.000	mv	9307.272	9634.430
RAL	Fluid Travel Time	200.000	usec/ft	9307.272	9634.430

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
		ACAL	ANR	AR1	AR2	AR3	AR4	AR5	AR6
1426XA	-12.360								
		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

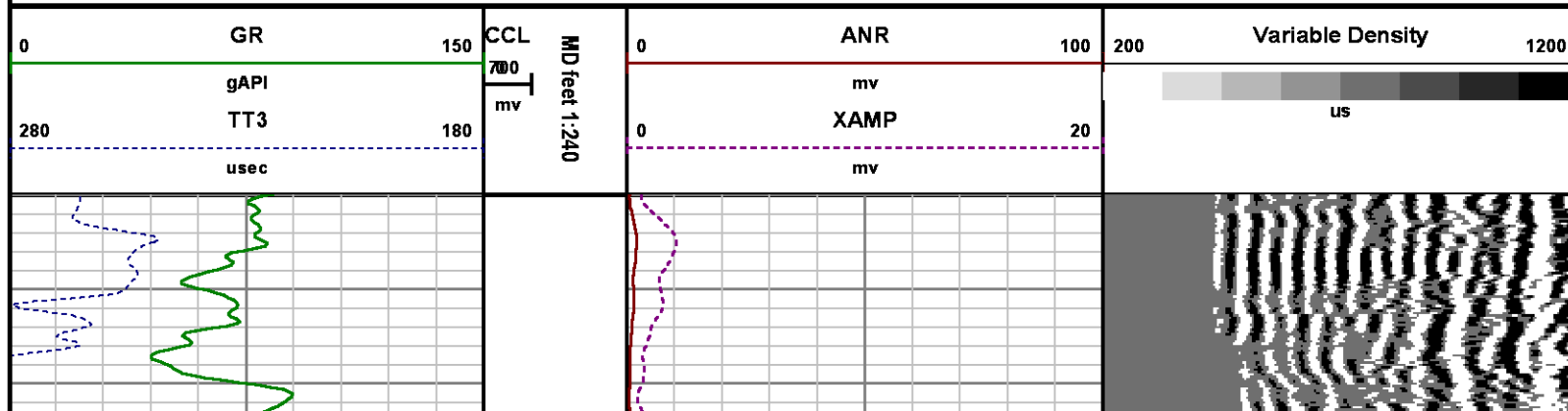
Well : AP 324-17-695

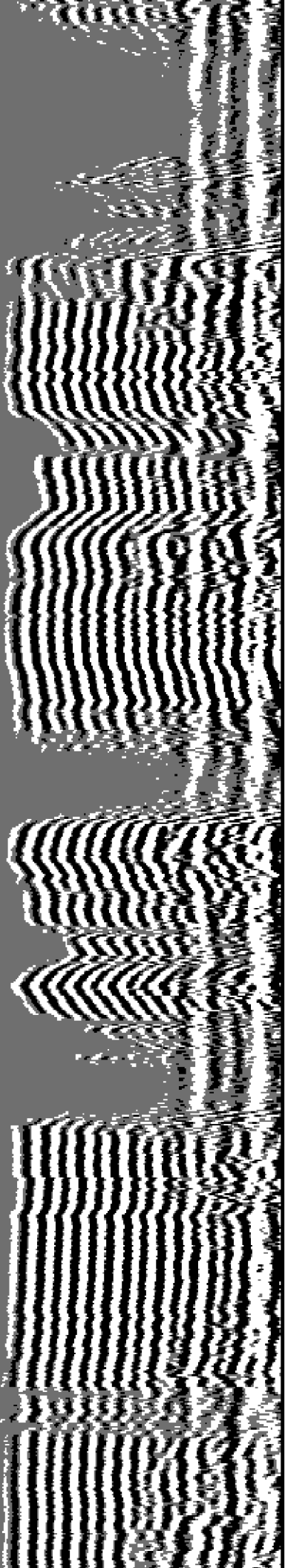
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Mode : PlotMgr 5.4.504

Interval : 9320.00 - 9620.00 feet UP

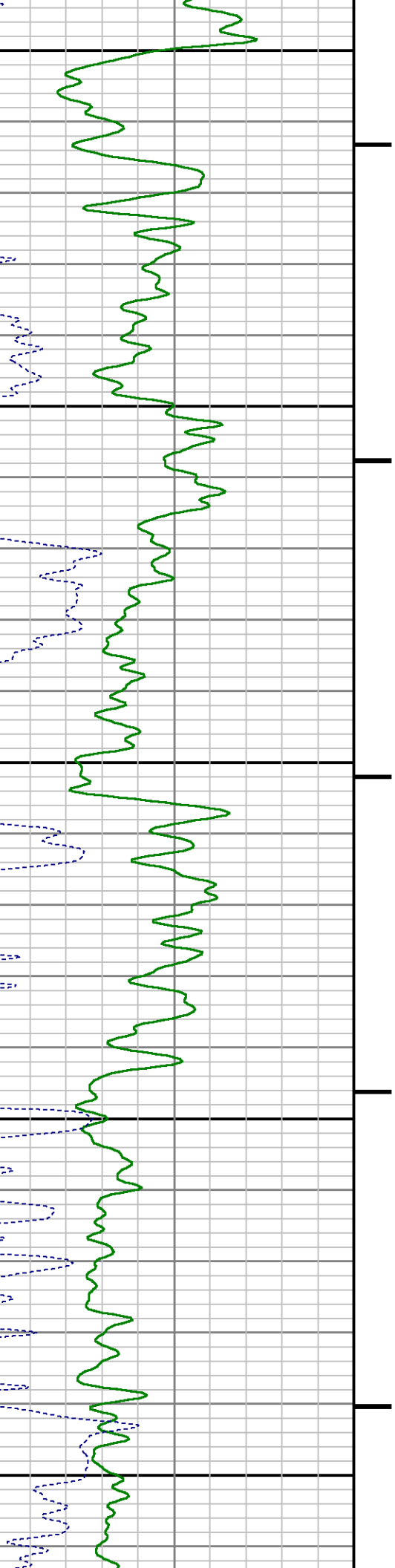
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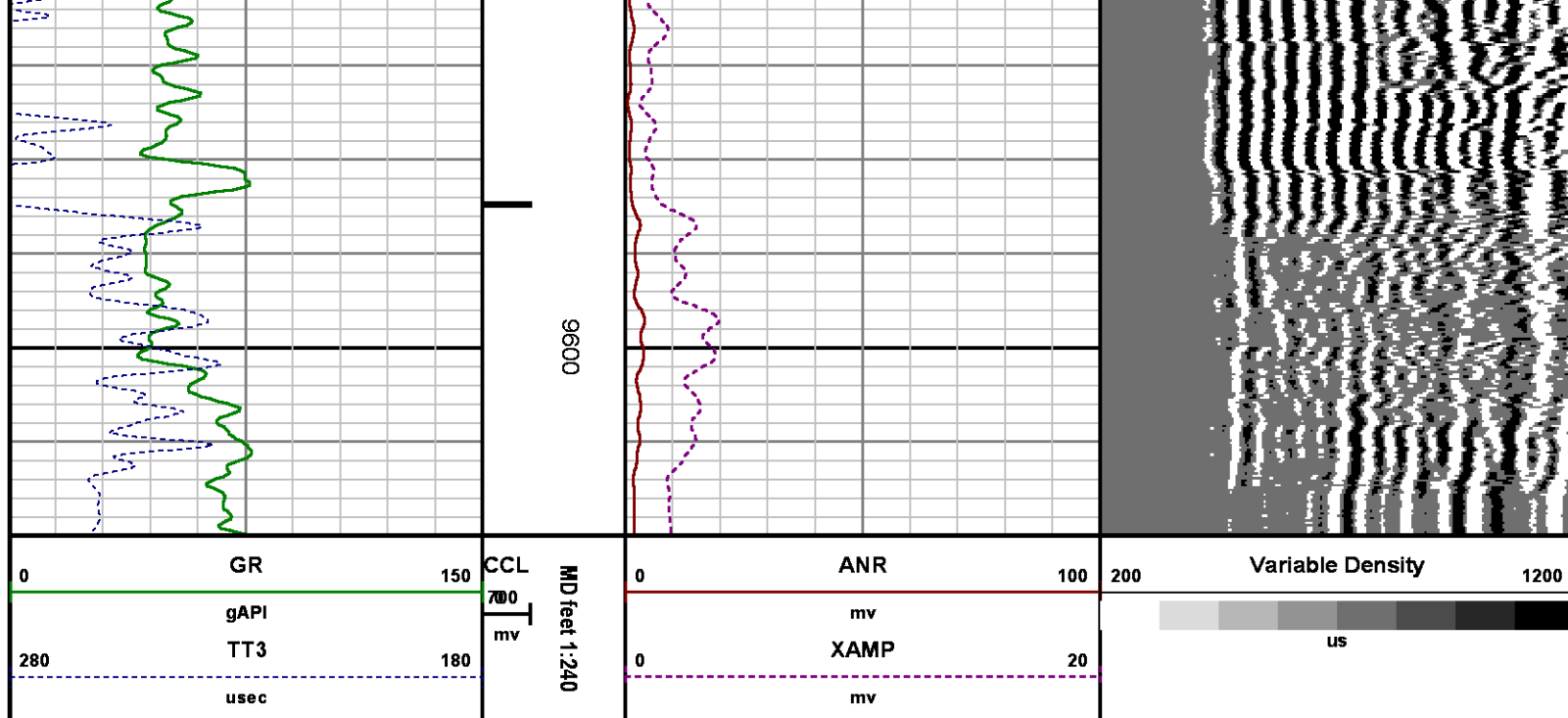




9400

9500





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\456OCT11_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 11 11:00:05 2014 TOOL SERIES: 1426XA ASSET: 456 SEQ: OCT11

Tool Delay [usec] -50.00 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	217	216	30	166	25	-0.335	100.00	0.26
3 Ft. Receiver	217	216	30	166	25	1.024	100.00	0.26
5 Ft. Receiver	327	325	30	247	25	0.439	150.00	0.29
Radial #1	219	216	30	166	25	1.557	100.00	0.26
Radial #2	217	216	30	166	25	1.250	100.00	0.26
Radial #3	217	216	30	166	25	1.569	100.00	0.26
Radial #4	215	216	30	166	25	1.400	100.00	0.26
Radial #5	215	216	30	166	25	1.126	100.00	0.26
Radial #6	215	216	30	166	25	0.681	100.00	0.26
Radial #7	217	216	30	166	25	0.987	100.00	0.26
Radial #8	219	216	30	166	25	1.111	100.00	0.26

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\456OCT11 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 11 11:01:50 2014 TOOL SERIES: 1426XA ASSET: 456 SEQ: OCT11

Tool Delay [usec] -50.00 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	0.007	0.000	1.00	100.000
3 Ft. Receiver	195	25	2.092			
5 Ft. Receiver	305	25	3.782			
Radial #1	195	25	1.983			
Radial #2	195	25	1.929			
Radial #3	195	25	1.937			
Radial #4	195	25	2.151			
Radial #5	195	25	2.183			
Radial #6	195	25	2.139			
Radial #7	195	25	2.092			
Radial #8	195	25	1.842			

GAMMA RAY

Calibration File: C:\case\calver\GR\503O8.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Oct 08 09:03:02 2014 TOOL SERIES: 2459XA ASSET: 503 SEQ: O8

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	110.22	393.29	0.654	72.04	257.04	185.00

Verification File: C:\case\calver\GR\503O8.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Wed Oct 08 09:04:12 2014 TOOL SERIES: 2459XA ASSET: 503 SEQ: O8

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	101.07	384.62	0.654	66.05	251.37	185.32

TOOL DIAGRAM

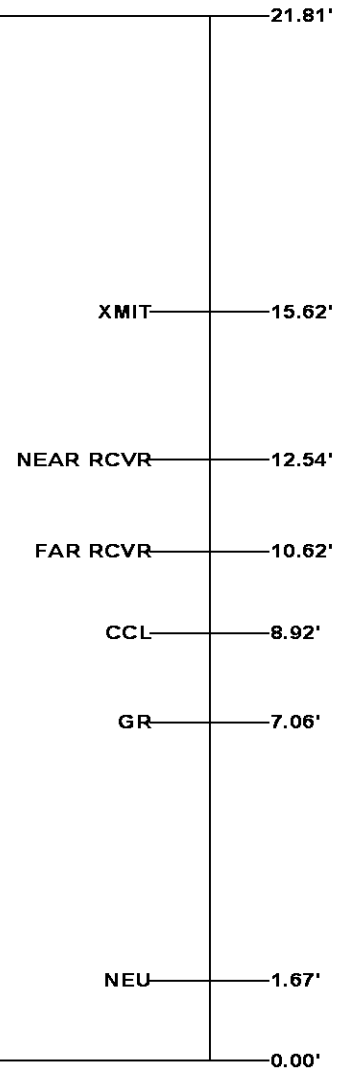
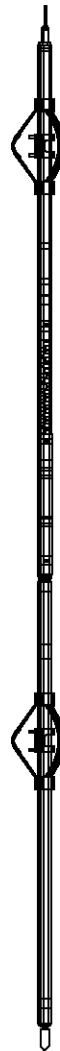
OTA SHORT CABLE HEAD

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

Probe GR/CCL/NEU

Series 2459XA
Mnemonic PROB
Diameter 2.75"
Length 9.42'
Measure Point 1.21' NEU
Measure Point 6.60' GR
Measure Point 8.46' CCL



Total Length: 21.81'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas

CASE

Company

WPX ENERGY

Well

AP 324-17-695

Field

PARACHUTE

County

GARFIELD

State

CO

Location

SHL: 25' FNL & 2487' FWL (20 6S 95W)

BHL: 1211' FSL & 2241' FWL (17 6S 95W)

SEC 17

TWP 6S

RGE 95W

Elevations

KB 6935 ft

DF

GL 6909 ft

File No:

CH091480

API No:

05045213910000

17 6S 95W

AP 21-20-695 PAD

NABORS 573