



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: **Company** **WPX ENERGY**

CH087265 **Well** **PA 443-3**

API No: **Field** **PARACHUTE**

05045221500000 **County** **GARFIELD** **State** **CO**

Location

SHL: 2056' FSL & 1533' FWL (2 7S 95W)

BHL: 1523' FSL & 782' FEL (3 7S 95W)

SEC 3 TWP 7S RGE 95W

Other Services

RPM

Permanent Datum **GL** **Elevation** **5821 ft**

Log Measured From **KB** **25 ft** **Above P. D.**

Drill Measured From **KB** **Elevations** **KB 5846 ft** **DF** **GL 5821 ft**

Date	23/JUN/14	
Run	ONE	
Service Order	US087265	
Depth Driller	8006 ft	
Depth Logger	7980 ft	
Bottom Logged Interval	7970 ft	
Top Logged Interval	25 ft	
Time Started	7:30	
Time Finished	11:00	
Operator Rig Time	3.5 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	69 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	218 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEMELL	
Witnessed By	DUSTIN WELSH	

- 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	1133 ft
8.75 in	1133 ft	8054 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1133 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	8054 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 13 feet.
Logged with zero PSI at wellhead.
BHT = 218 °F

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

PRIMARY PRESENTATION

0 PSI

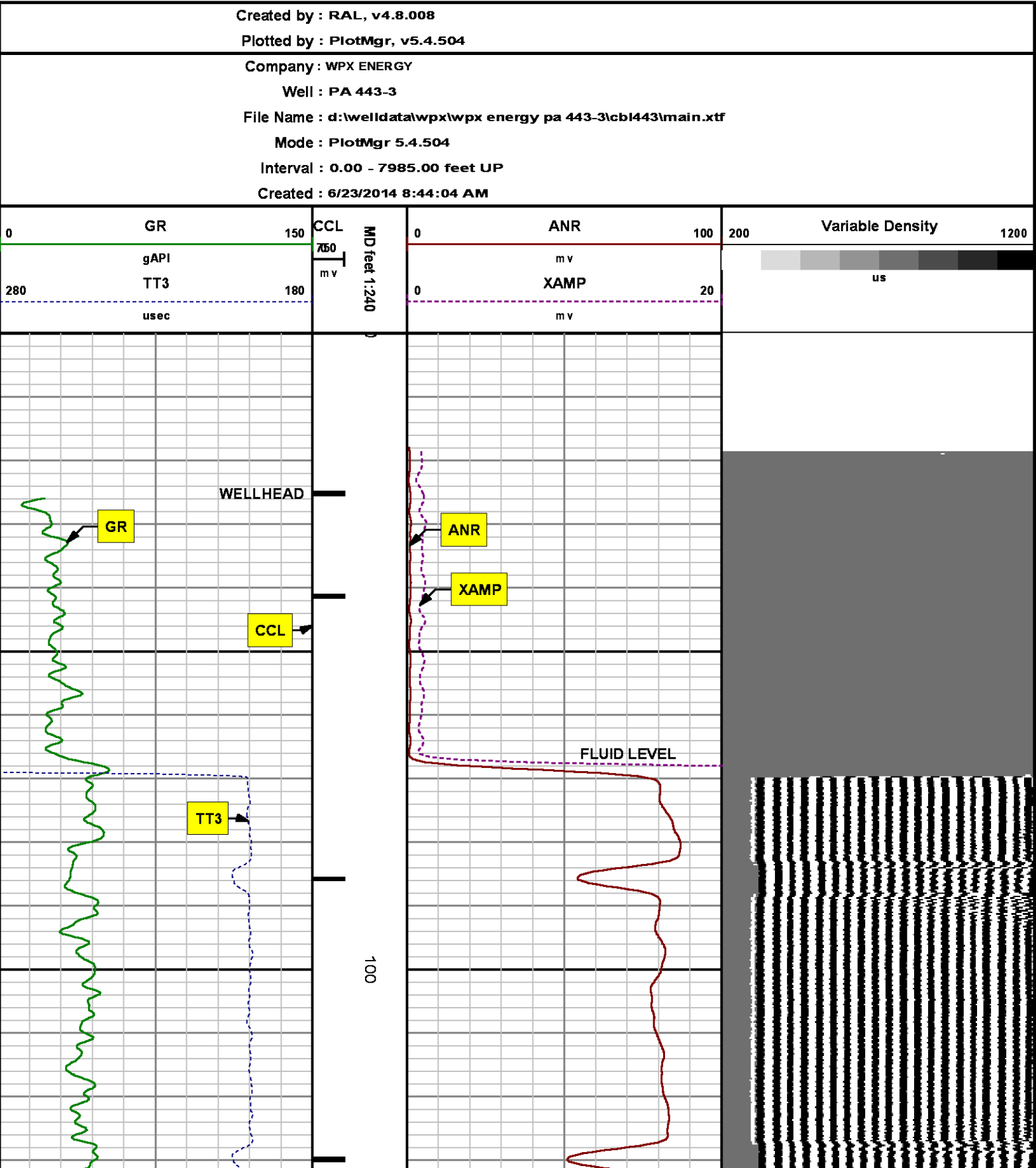
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	34.156	7987.250
RAL	Amp Gate Start Near	195.000	usec	34.156	7987.250
RAL	Amp Gate Start Radial	195.000	usec	34.156	7987.250
RAL	Amp Gate Width Far	25.000	usec	34.156	7987.250
RAL	Amp Gate Width Near	25.000	usec	34.156	7987.250
RAL	Amp Gate Width Radial	25.000	usec	34.156	7987.250
RAL	casing od	4.500	inches	34.156	7987.250
RAL	casing wt	11.600	lbm/ft	34.156	7987.250
RAL	FB Start Far	291.900	usec	34.156	7987.250
RAL	FB Start Near	175.391	usec	34.156	7987.250
RAL	FB Start Radial	175.391	usec	34.156	7987.250
RAL	FB Thresh Far	4.000	mv	34.156	7987.250
RAL	FB Thresh Near	4.000	mv	34.156	7987.250
RAL	FB Thresh Radial	4.000	mv	34.156	7987.250
RAL	Fluid Travel Time	200.000	usec/ft	34.156	7985.843

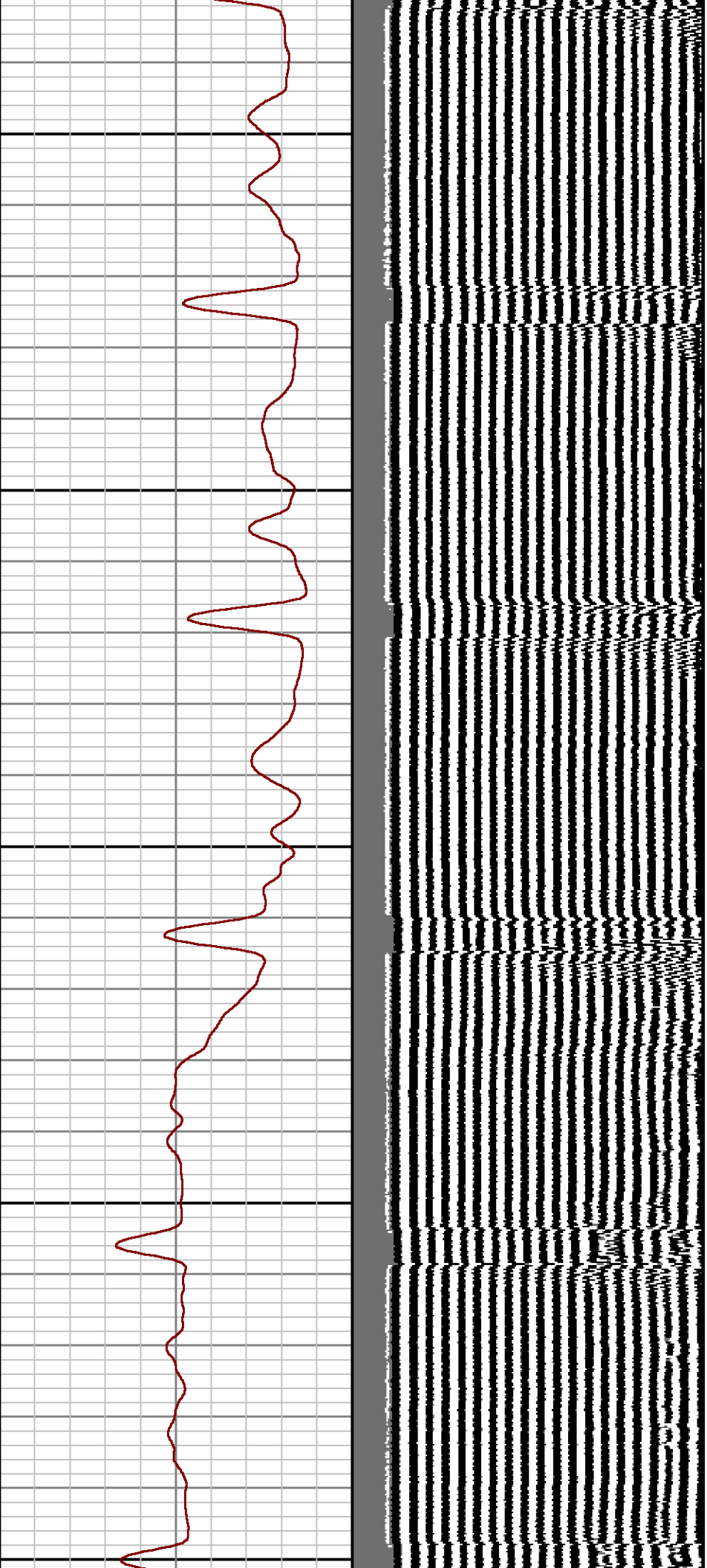
DEPTH OFFSETS

(for Acquired Curves)

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

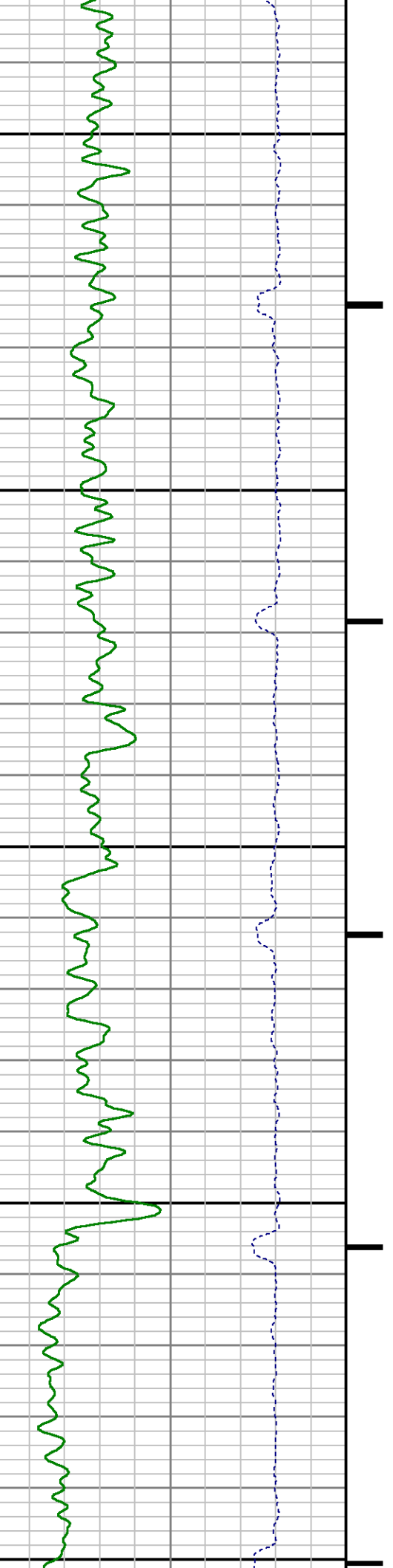
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

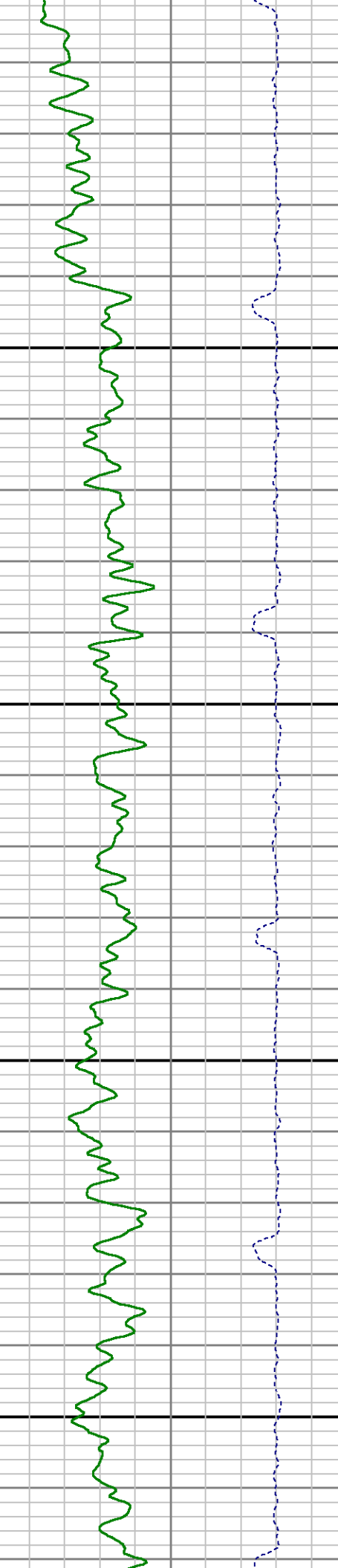
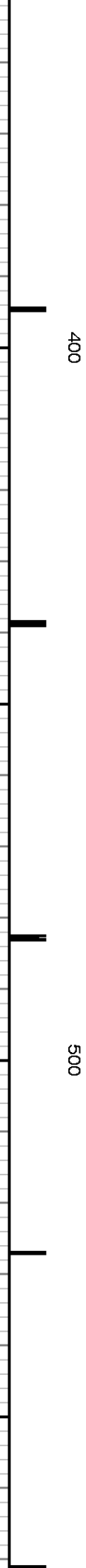
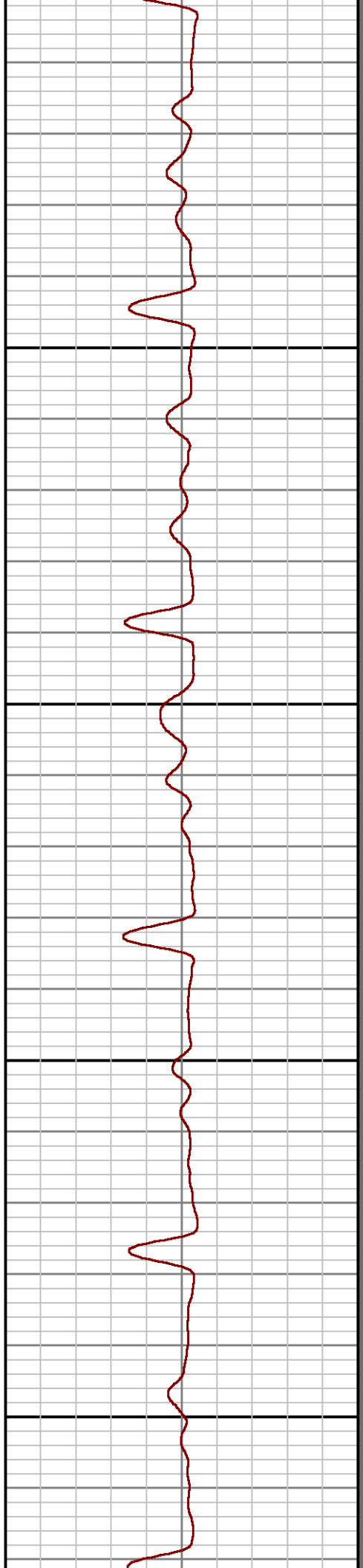
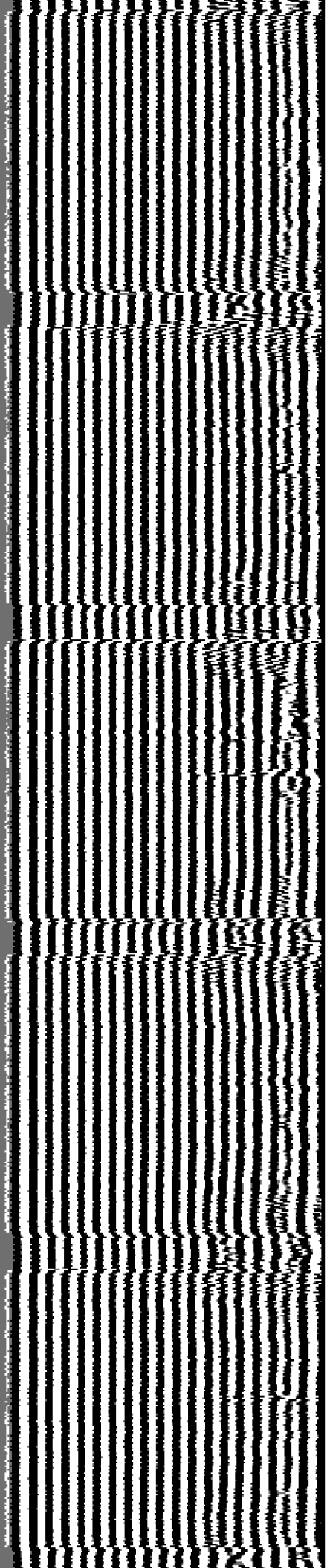


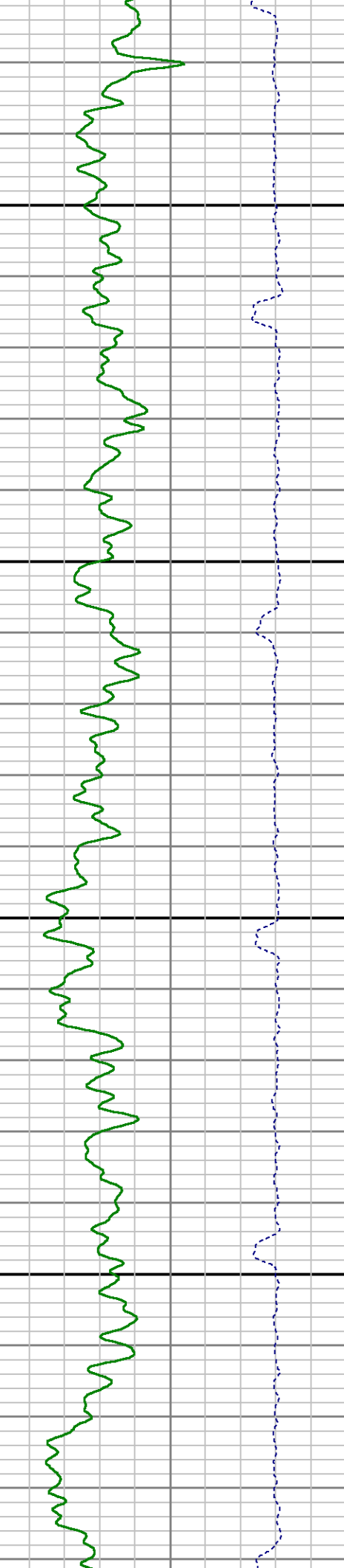
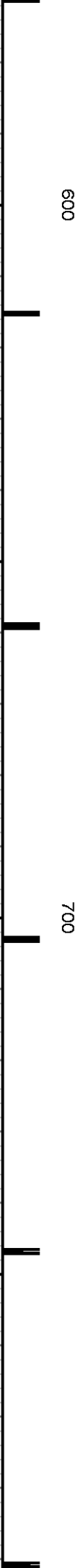
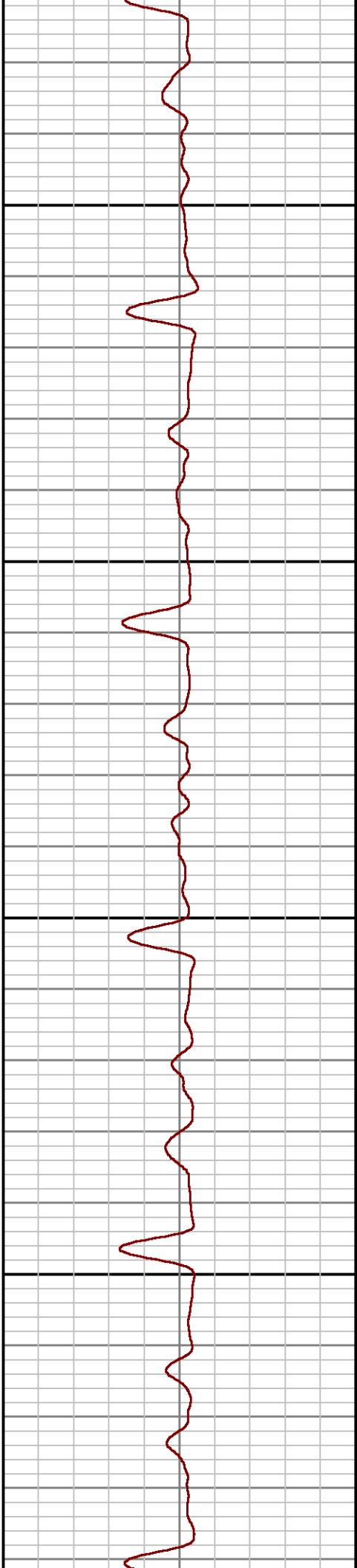
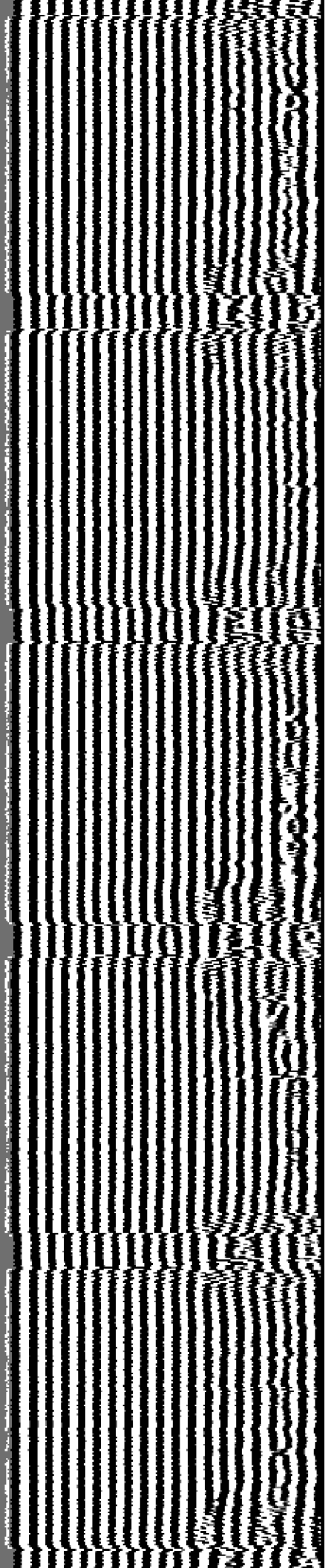


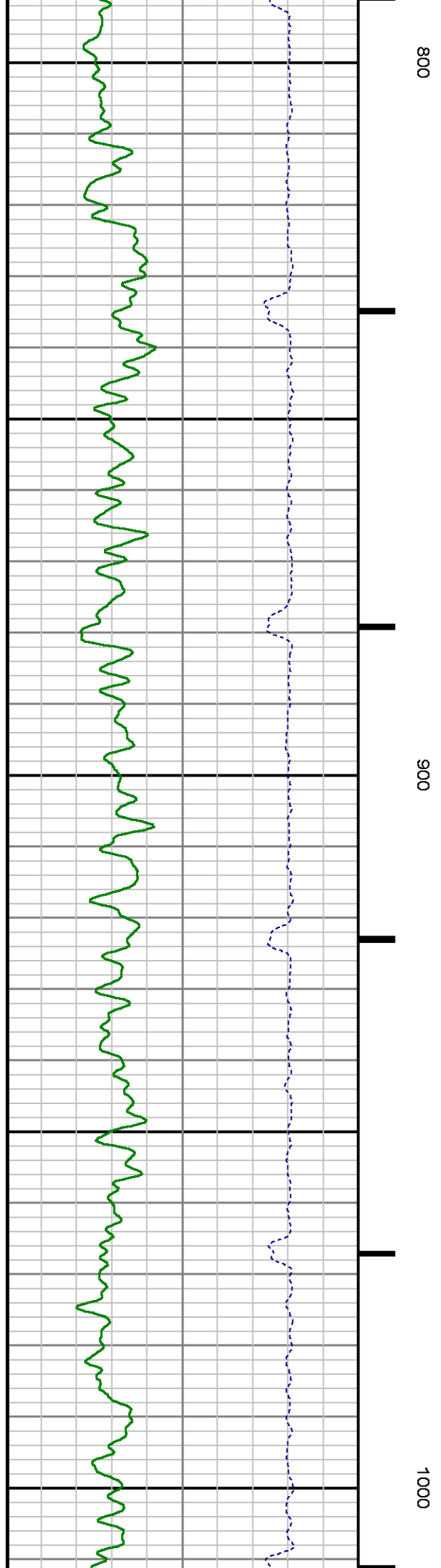
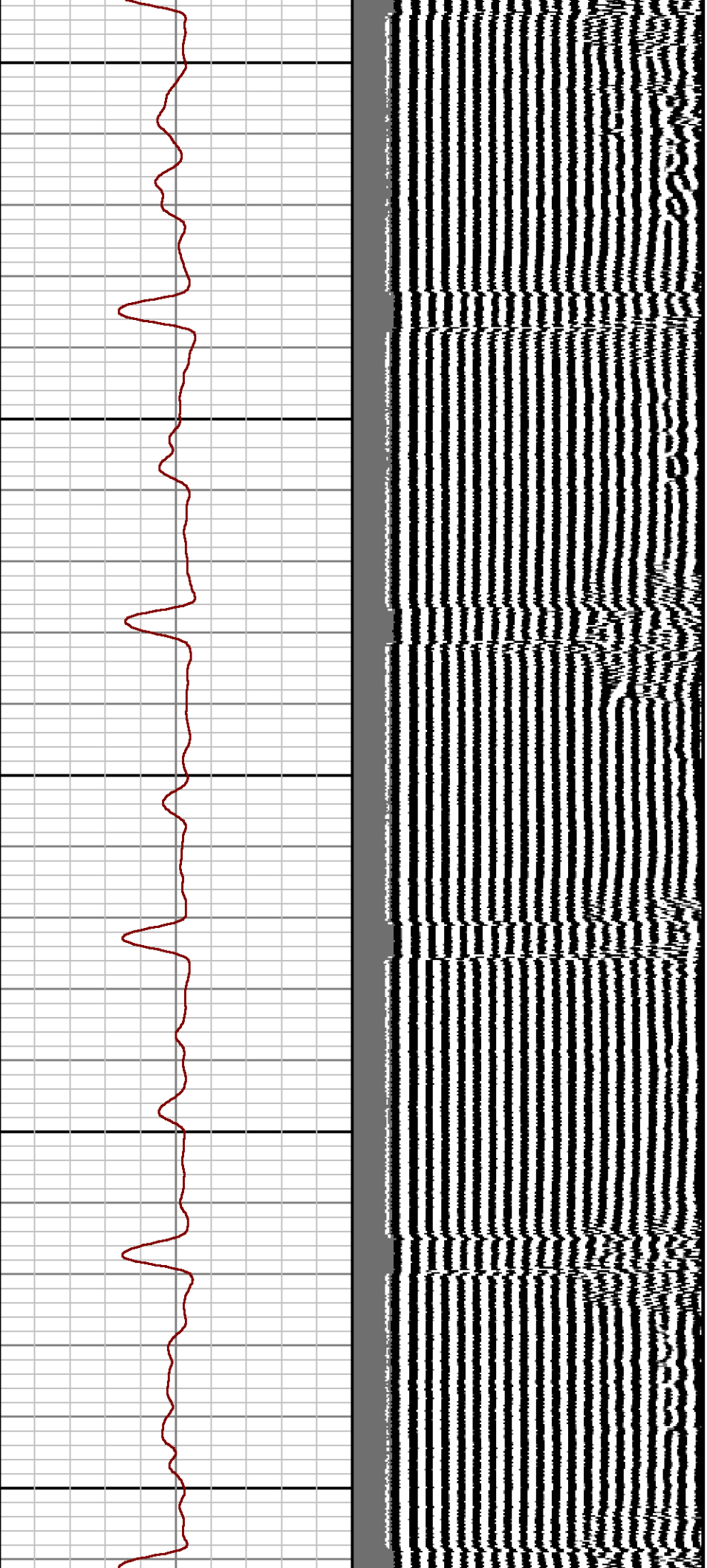
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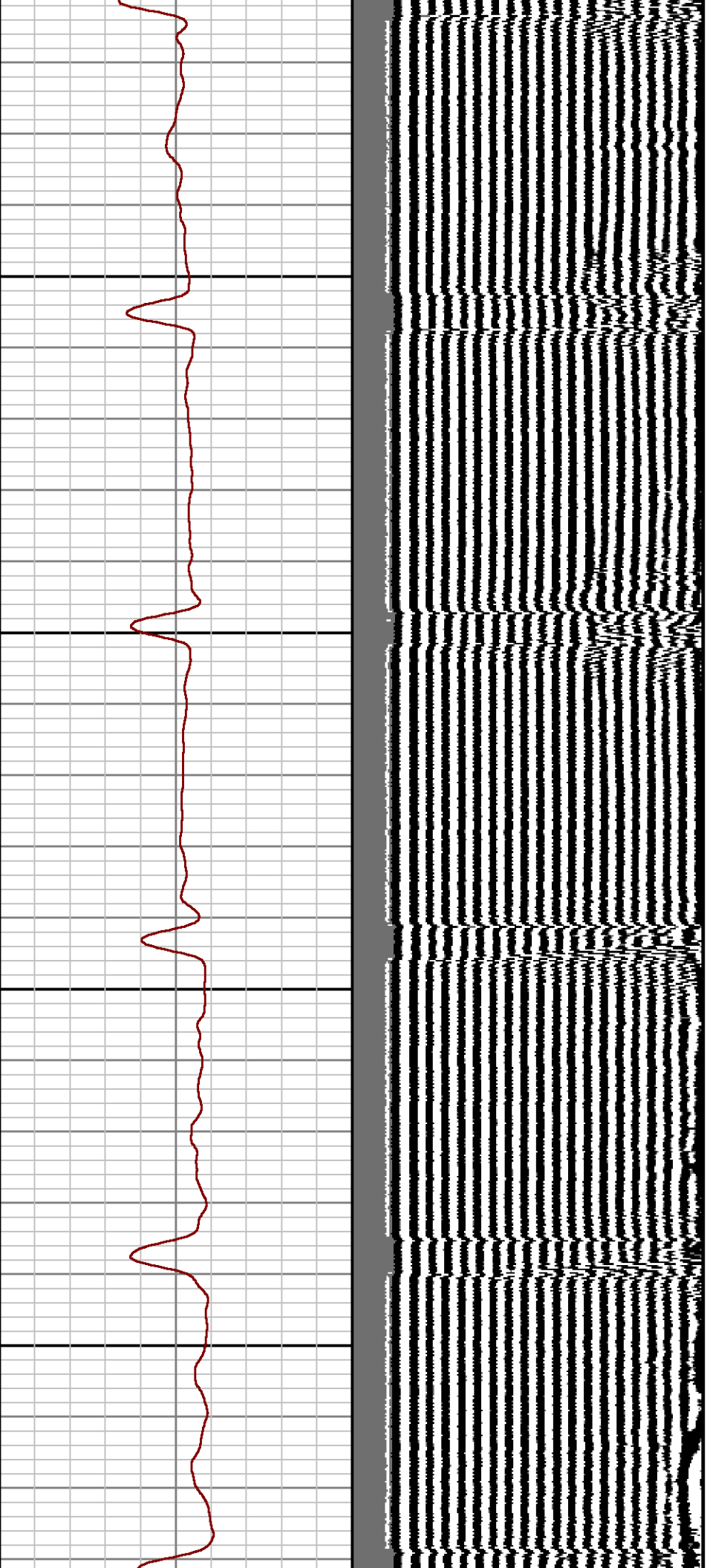
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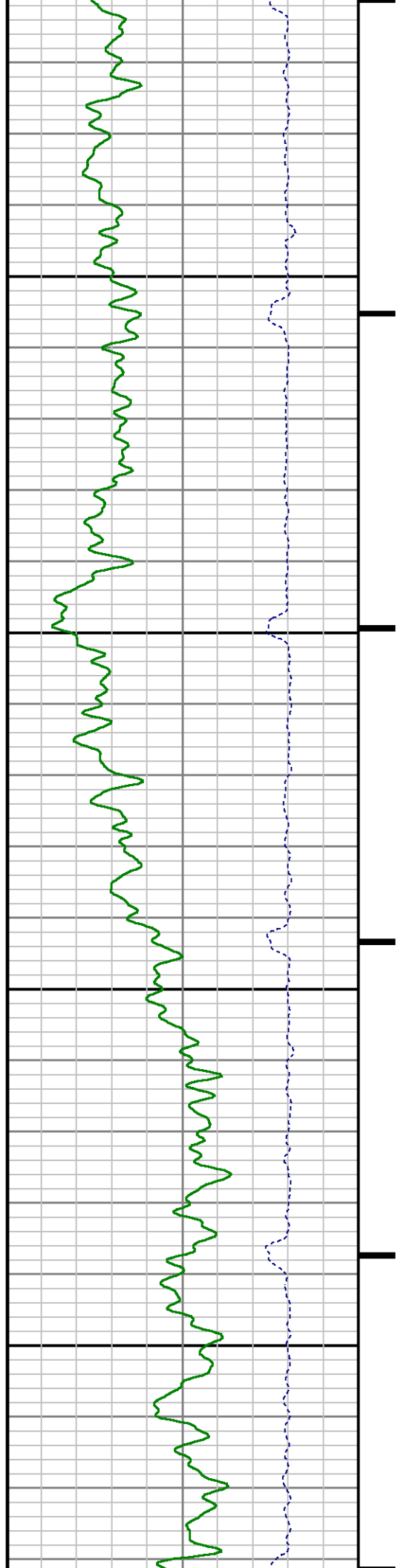


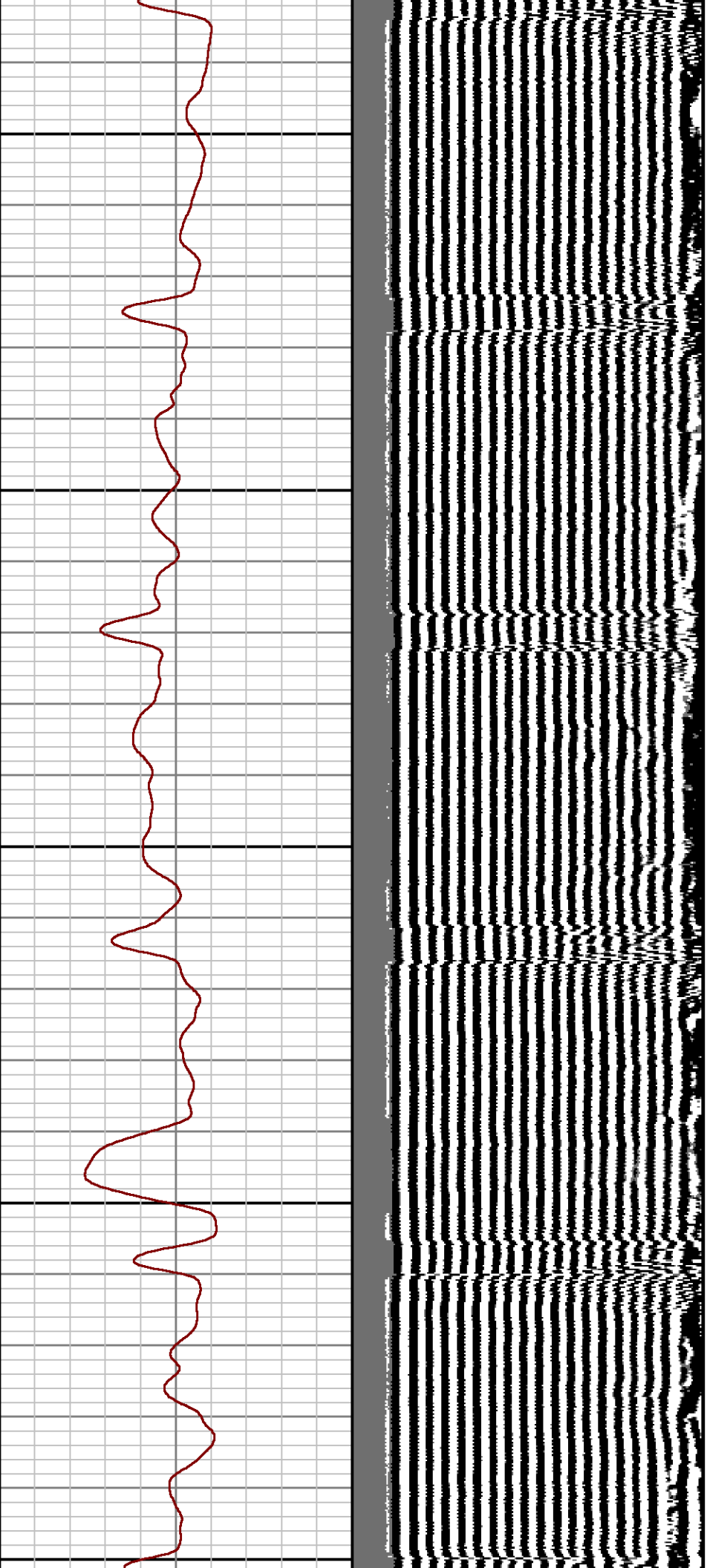




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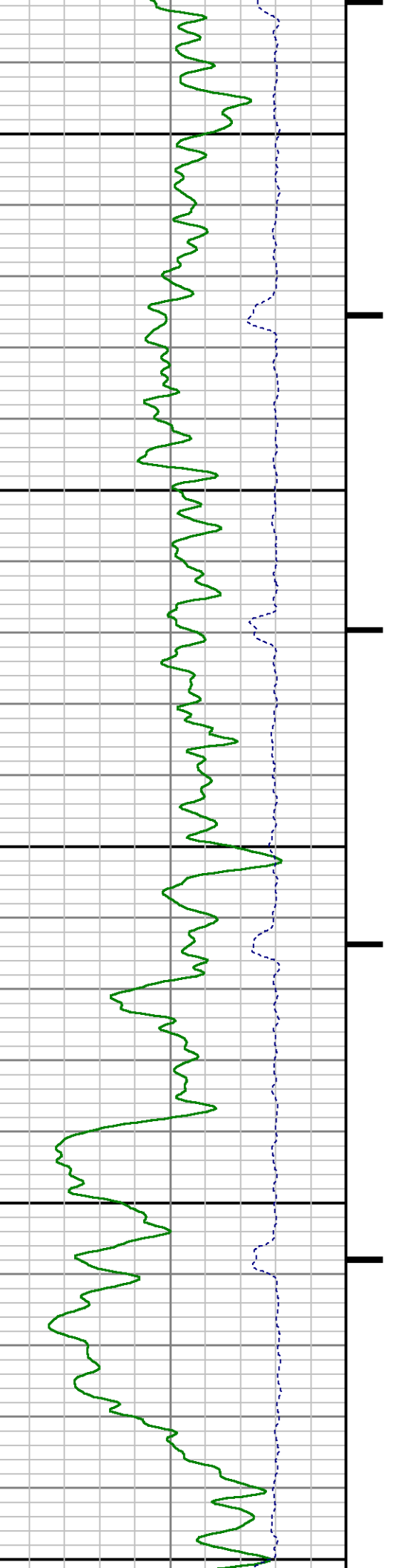
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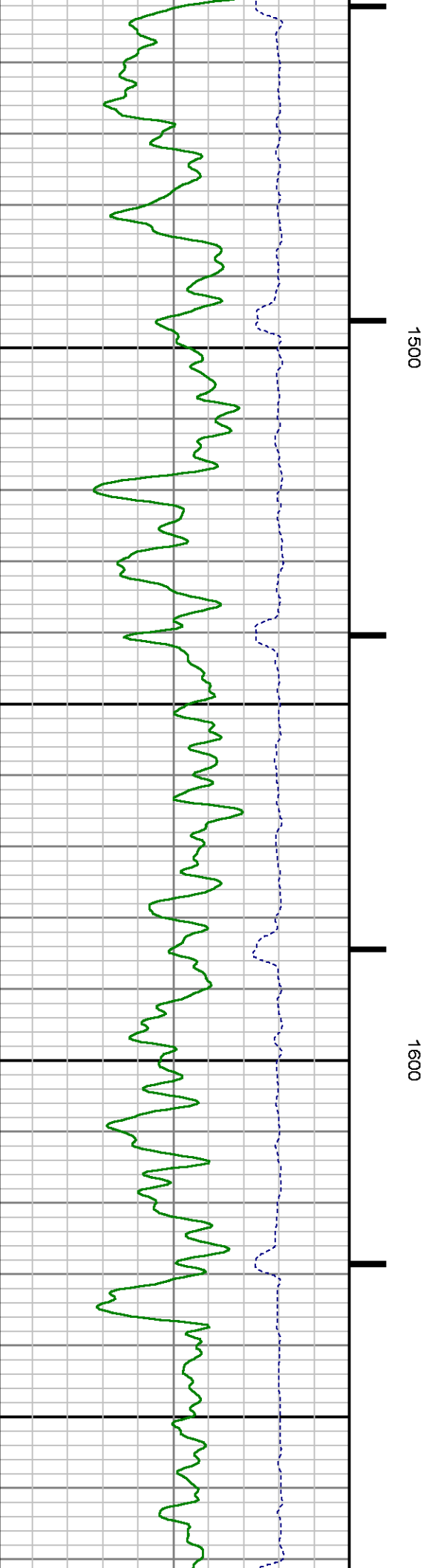
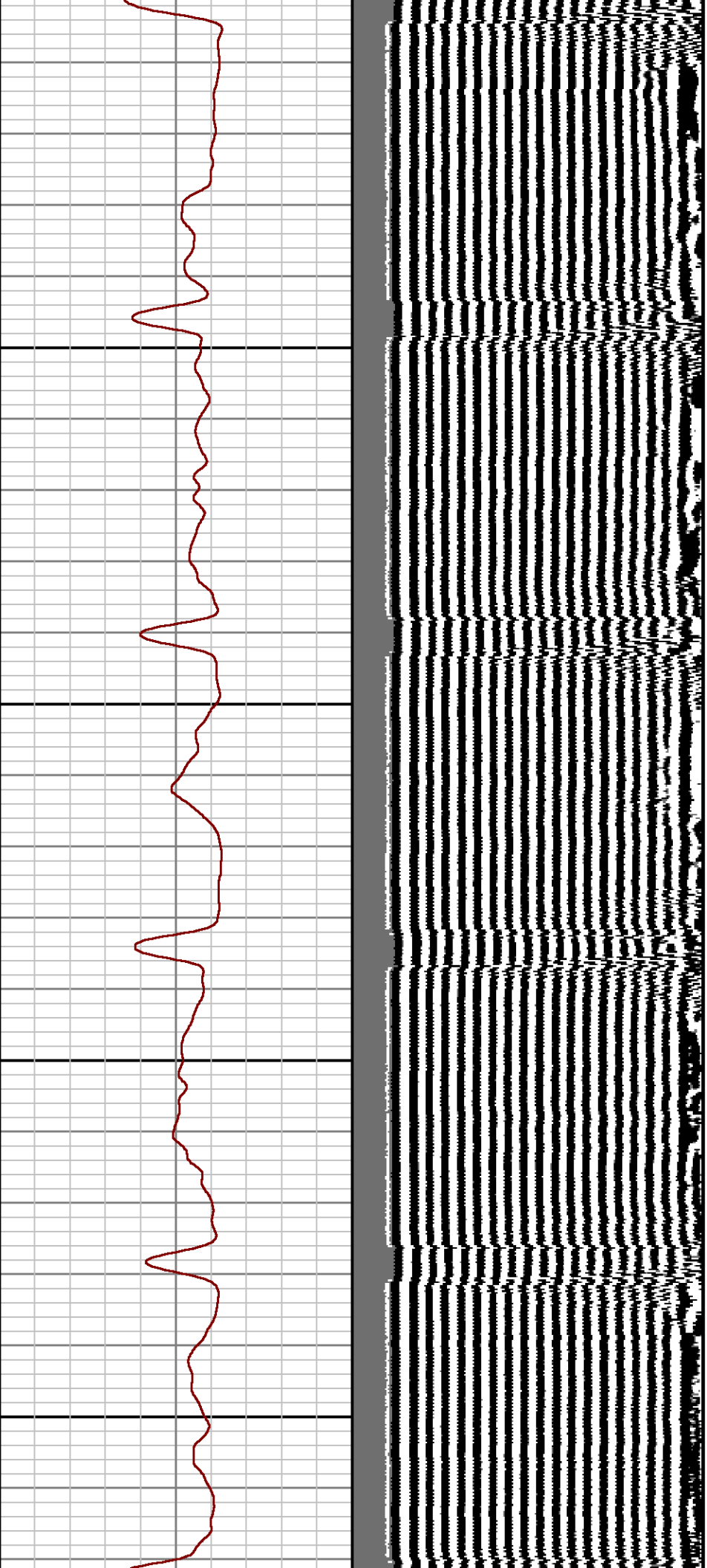


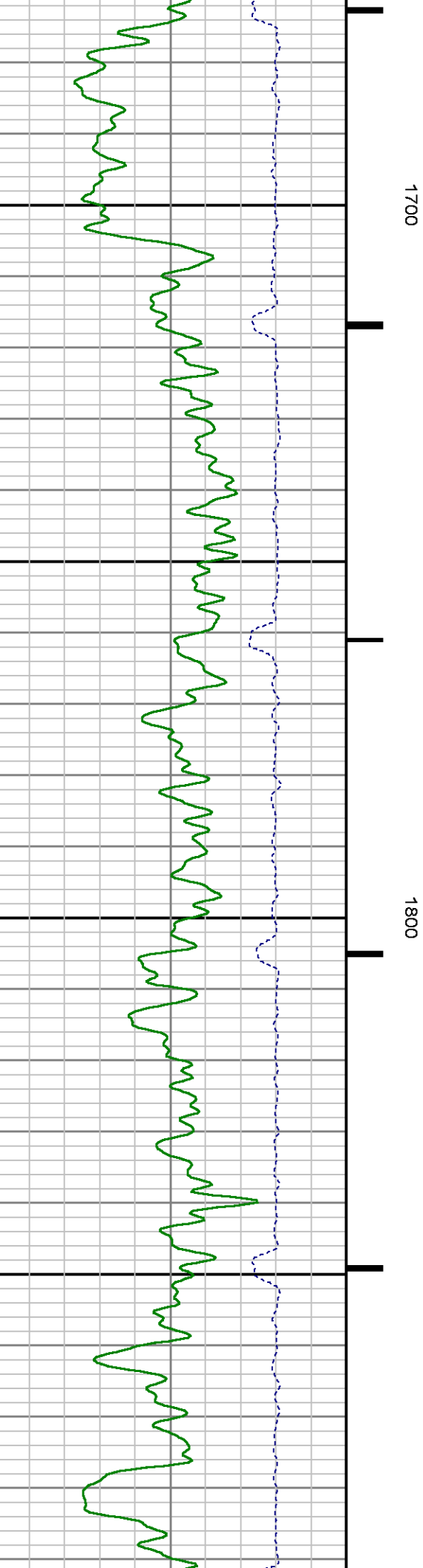
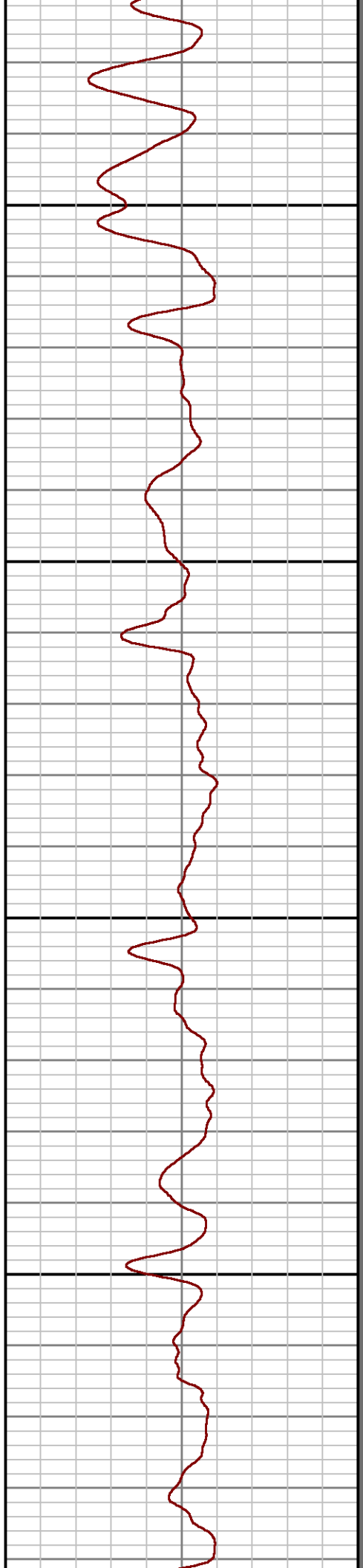
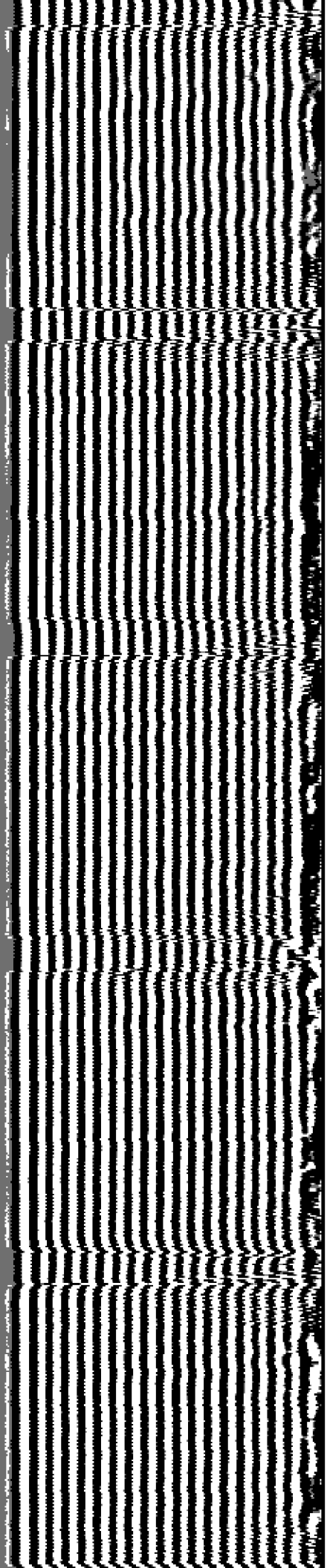


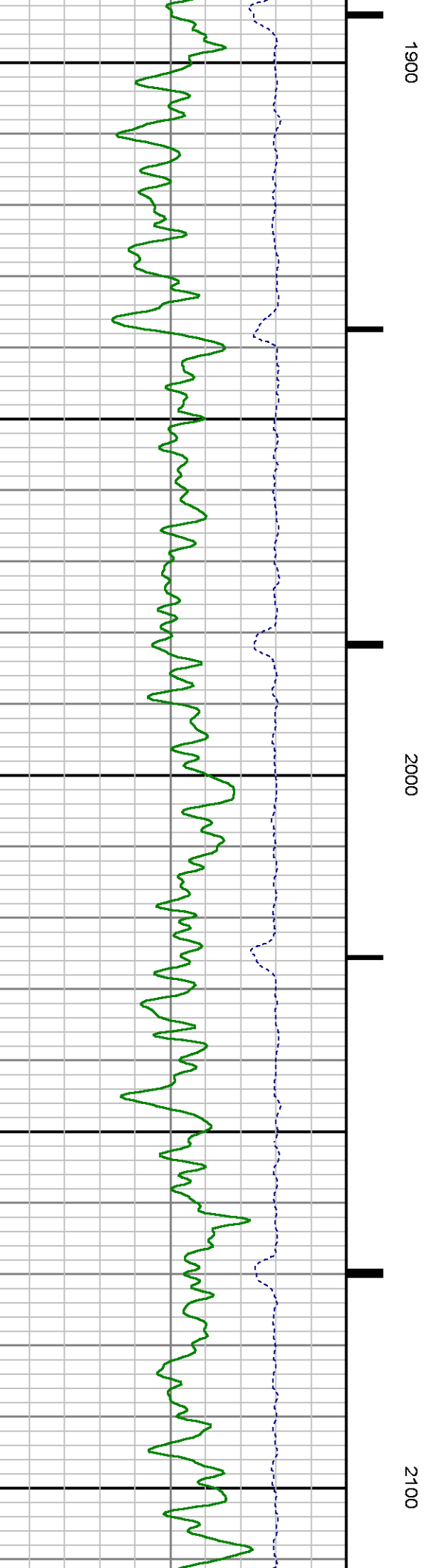
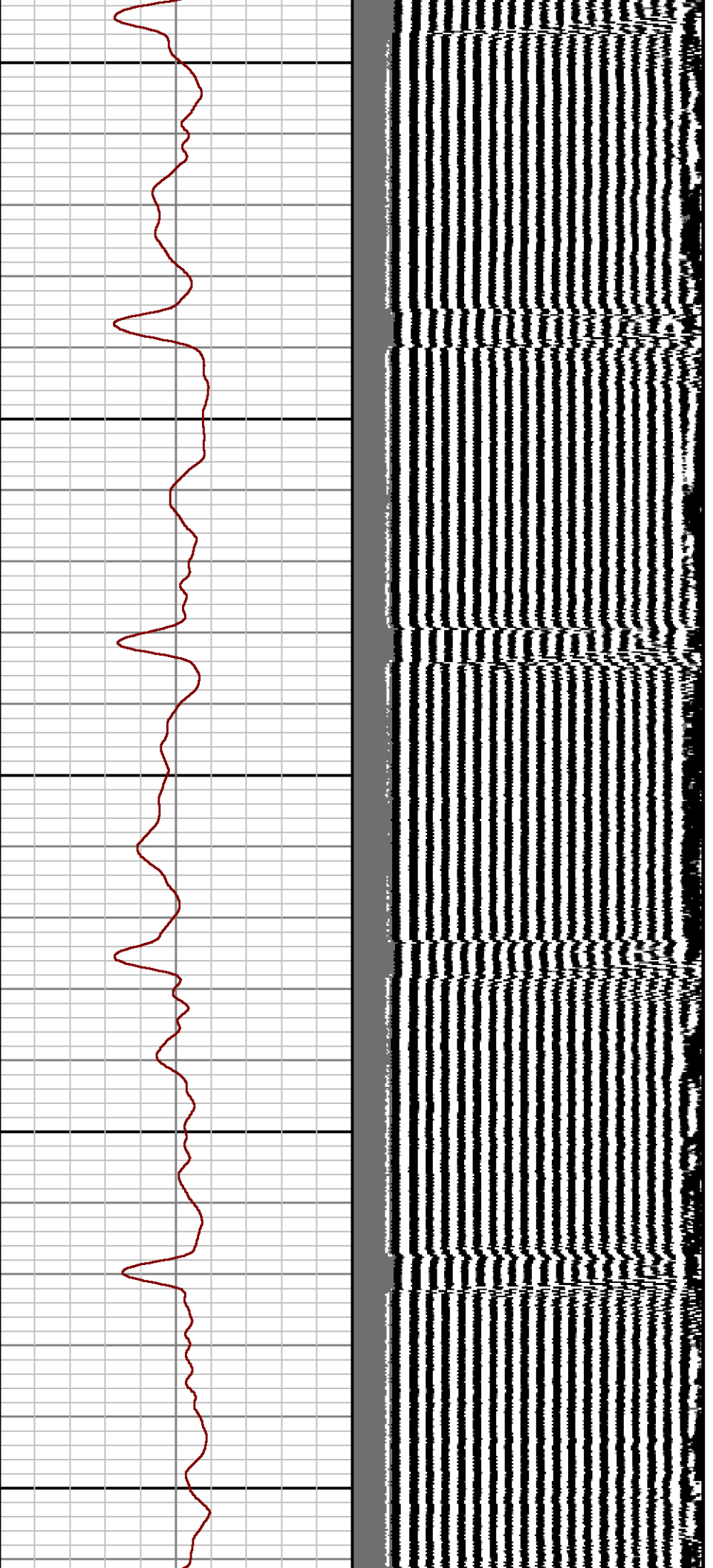
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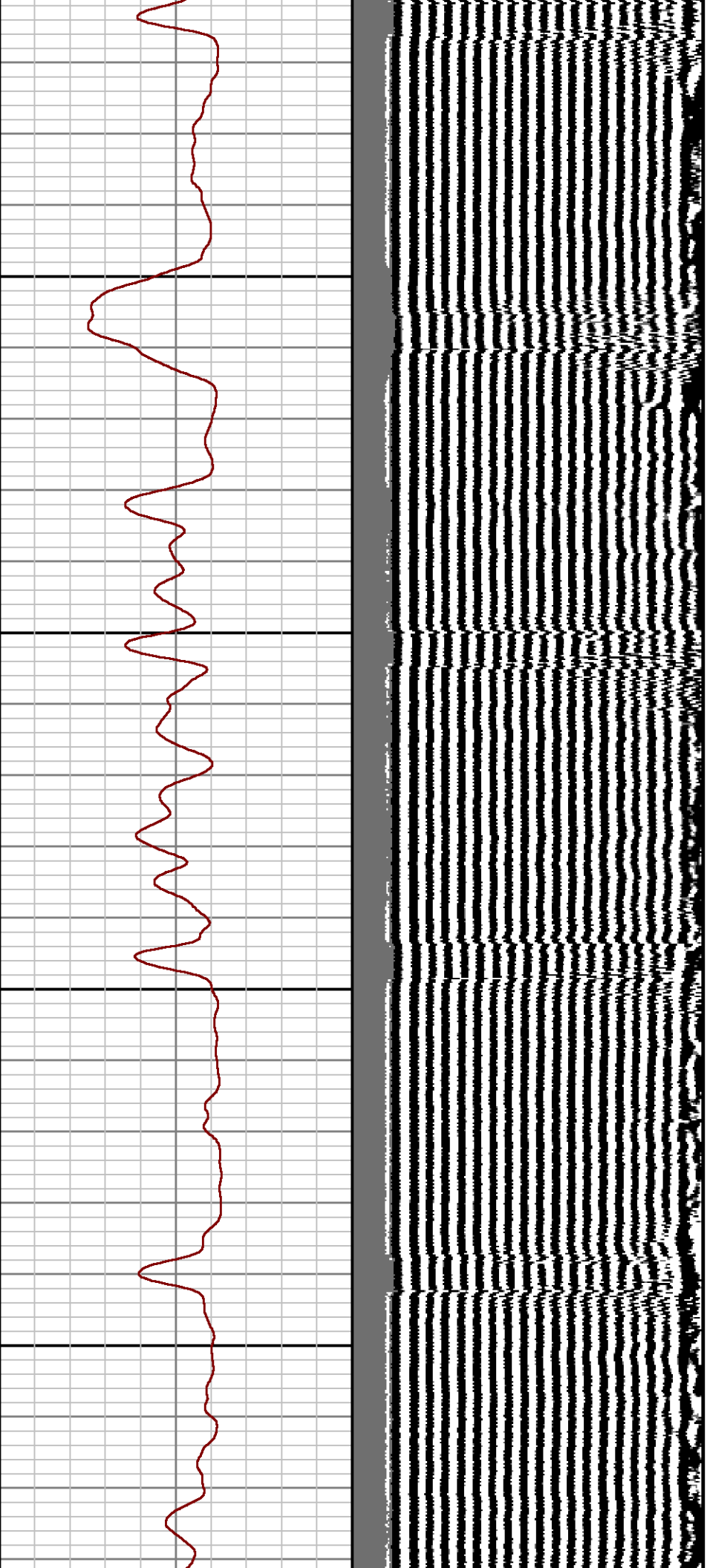
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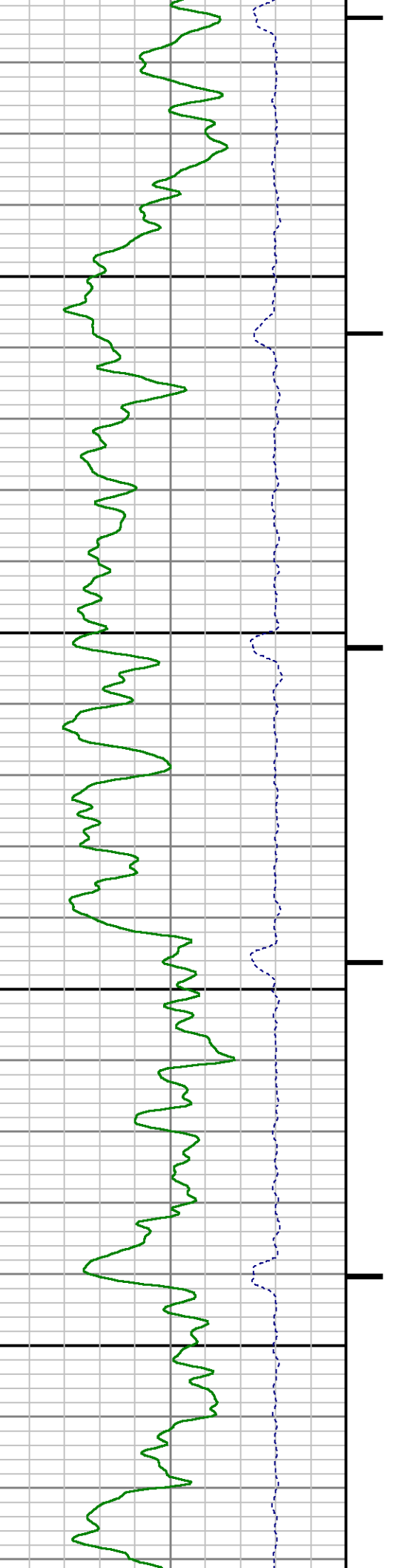


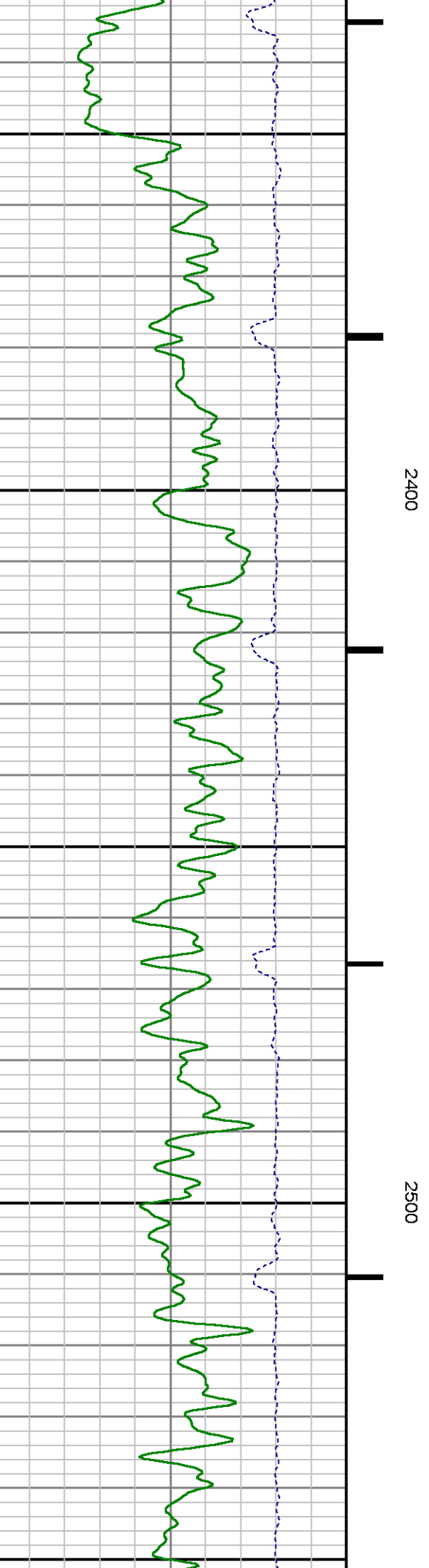
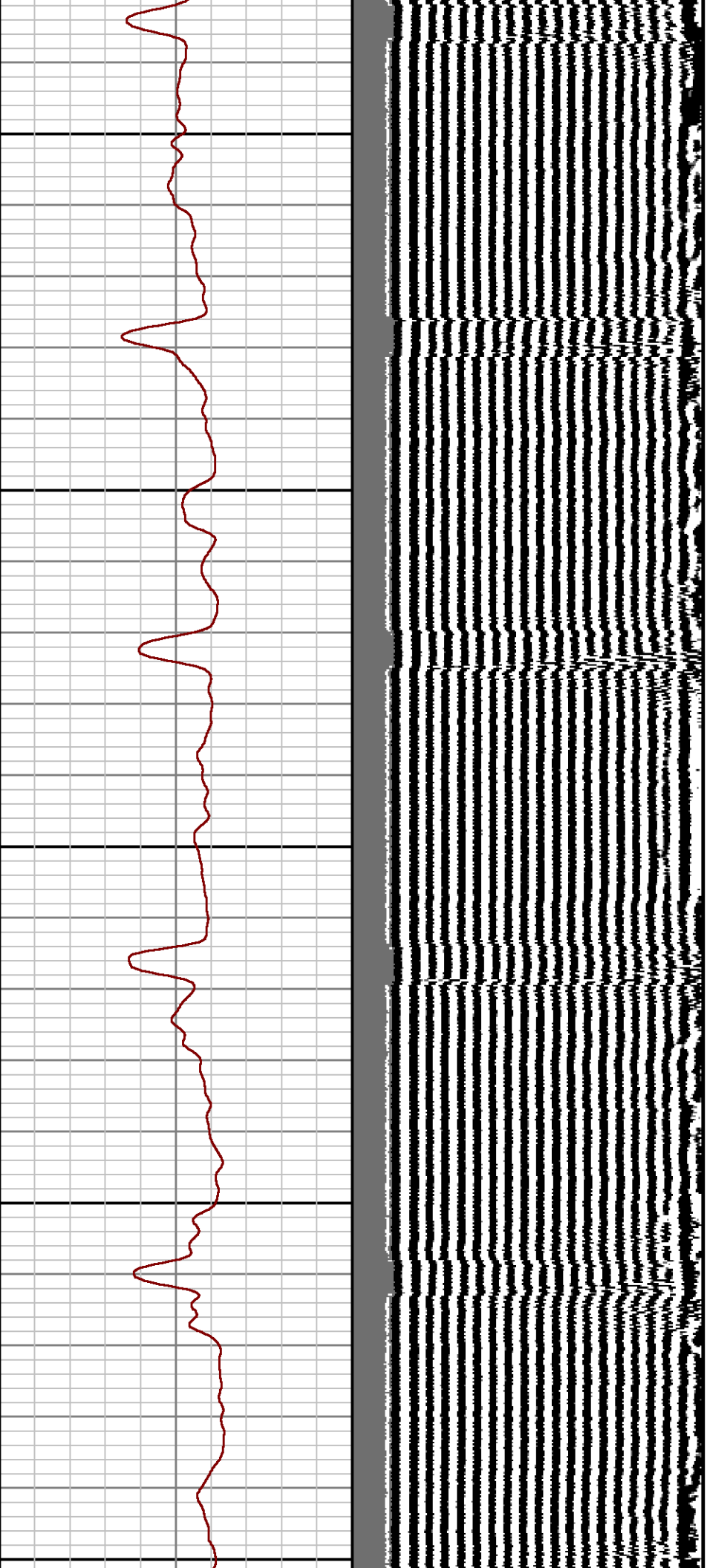


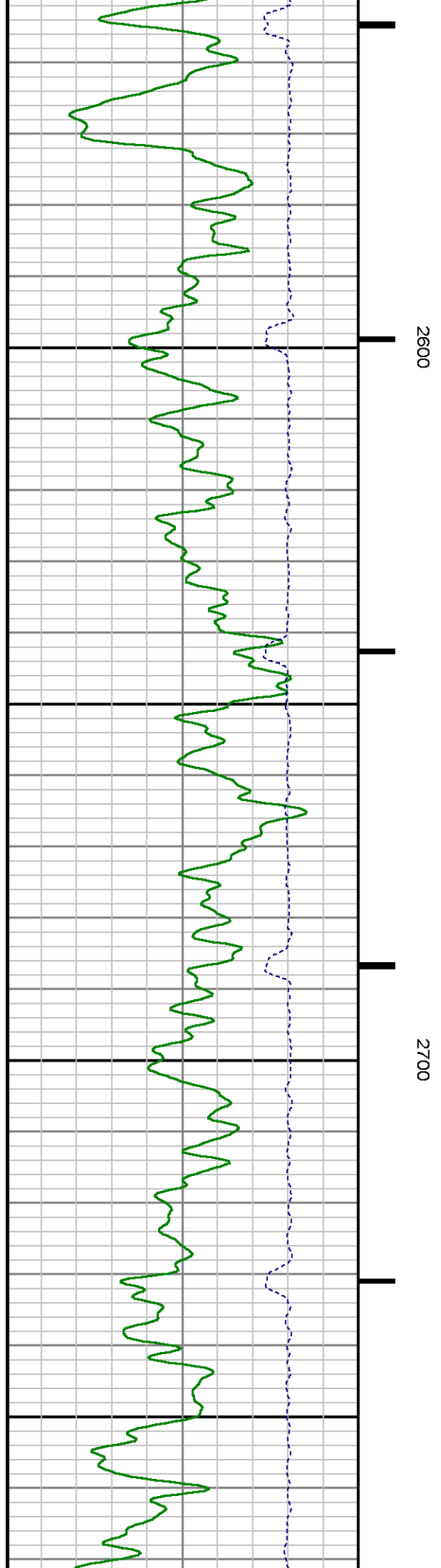
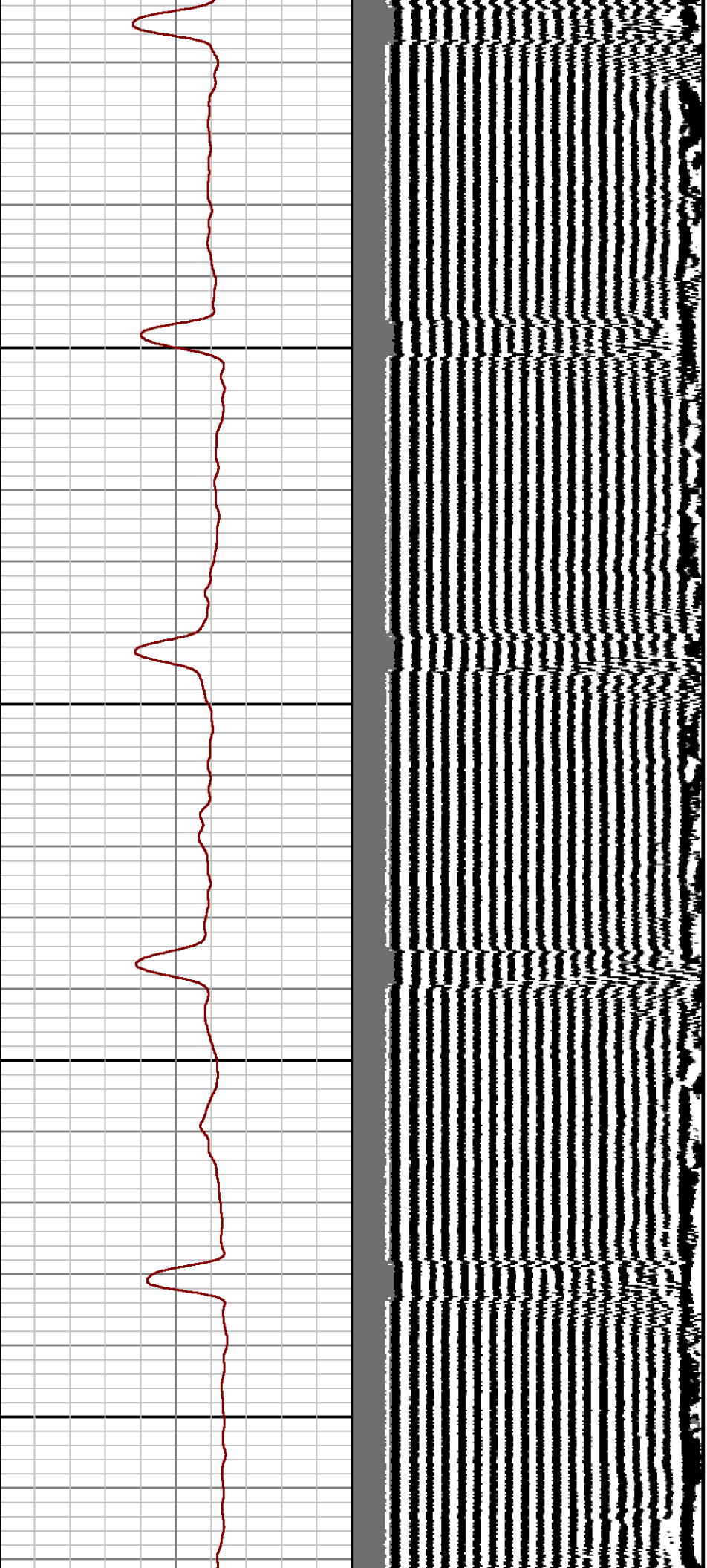


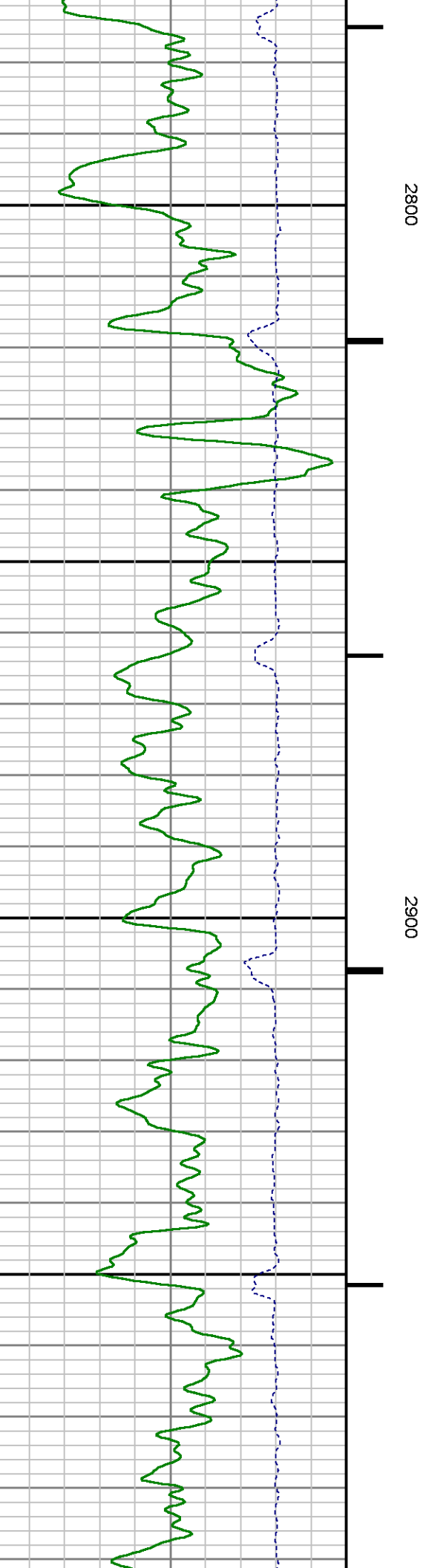
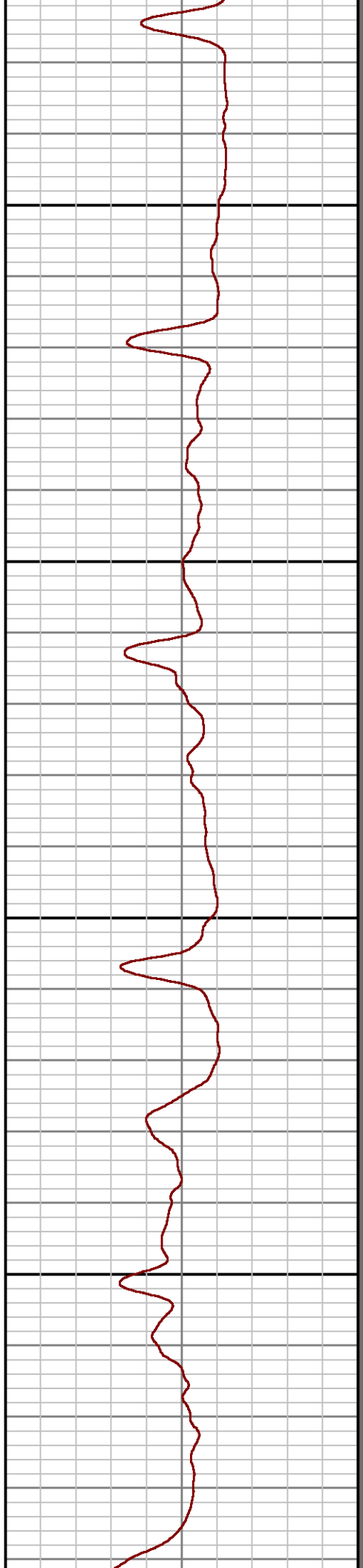
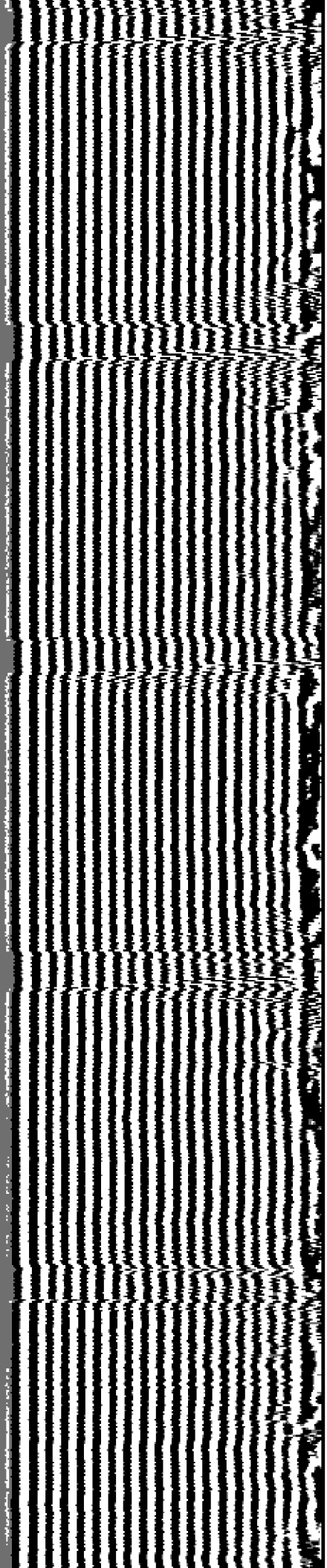
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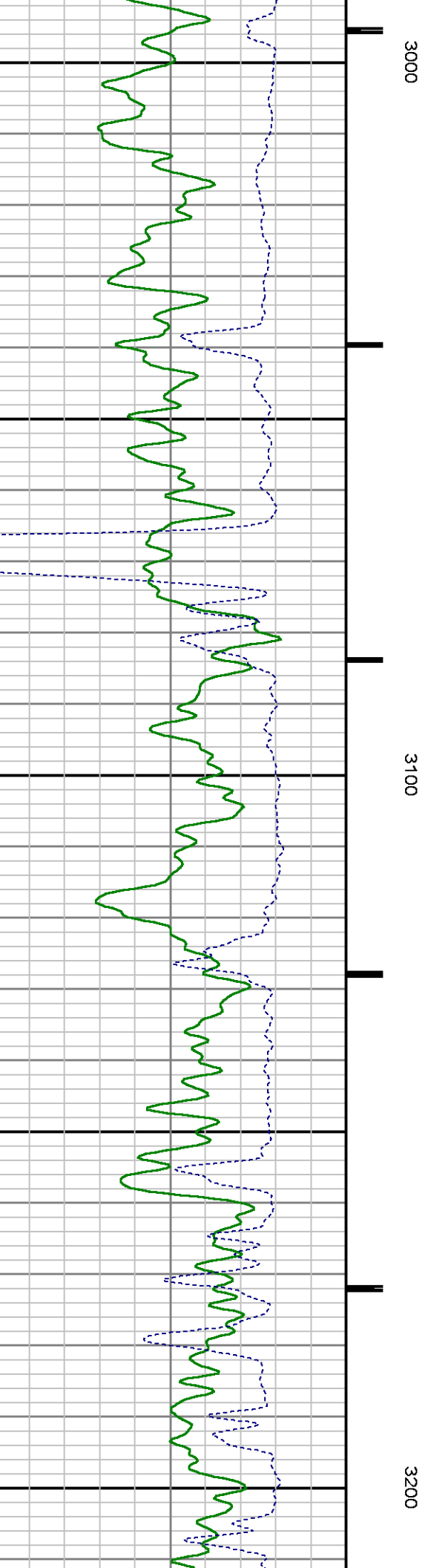
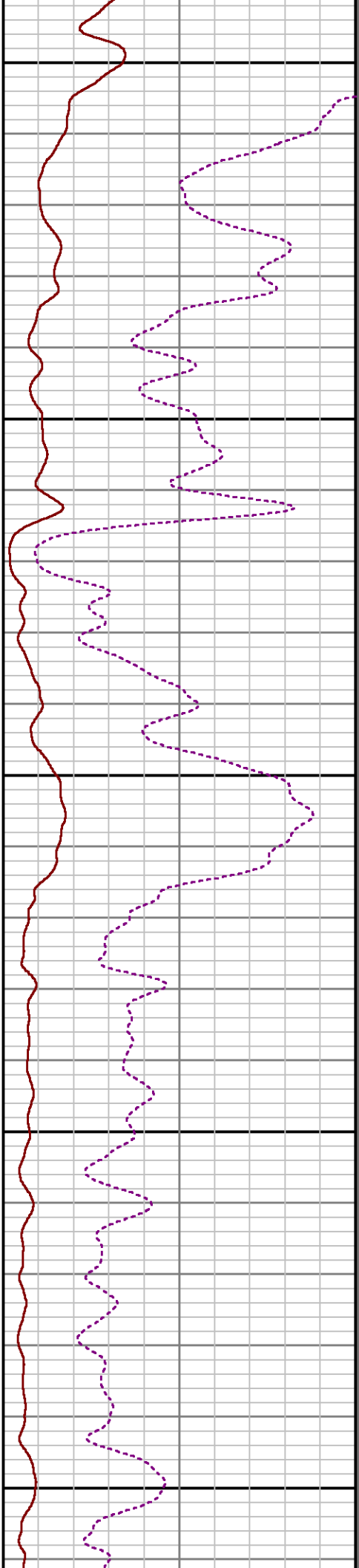
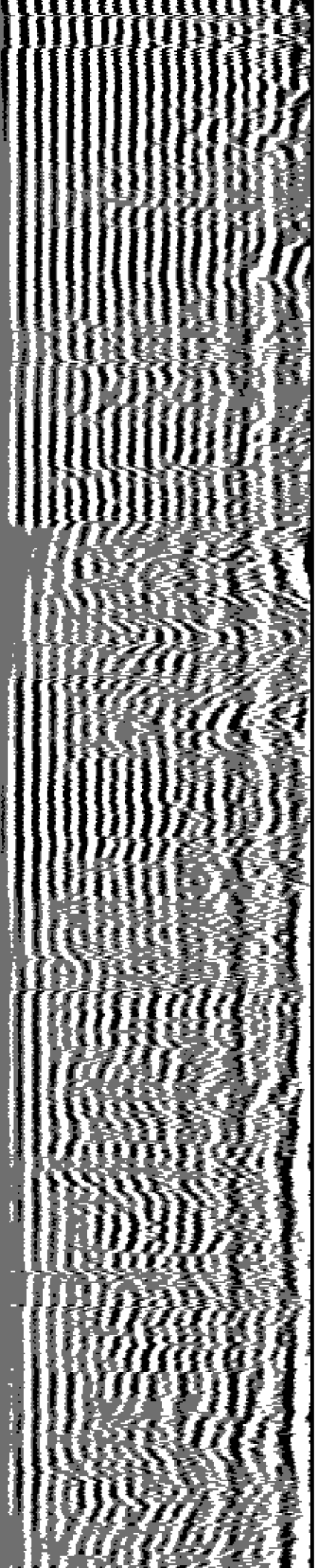
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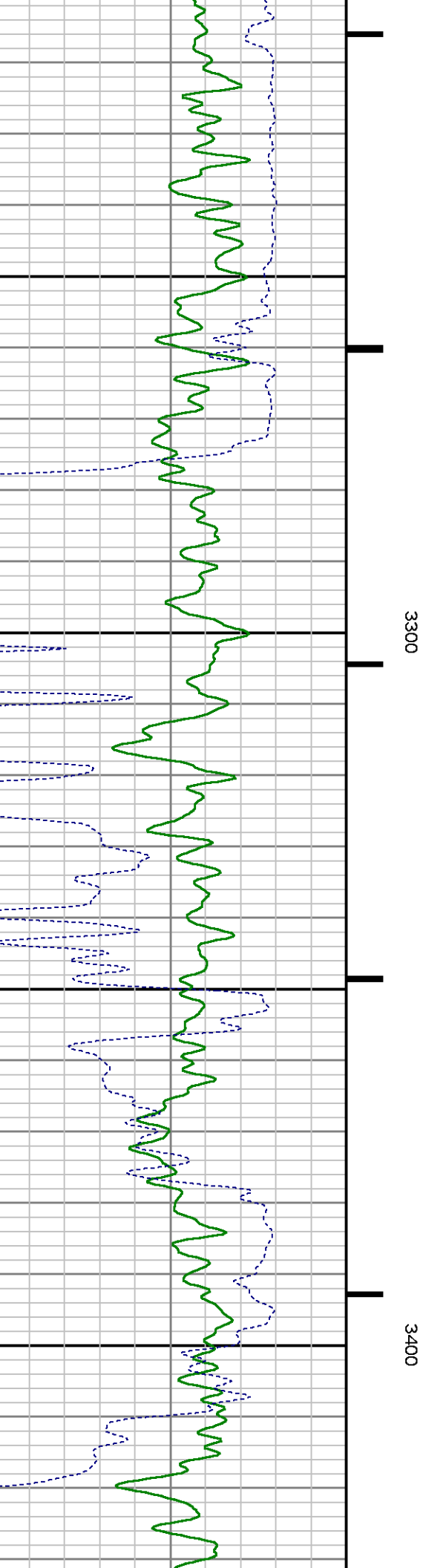
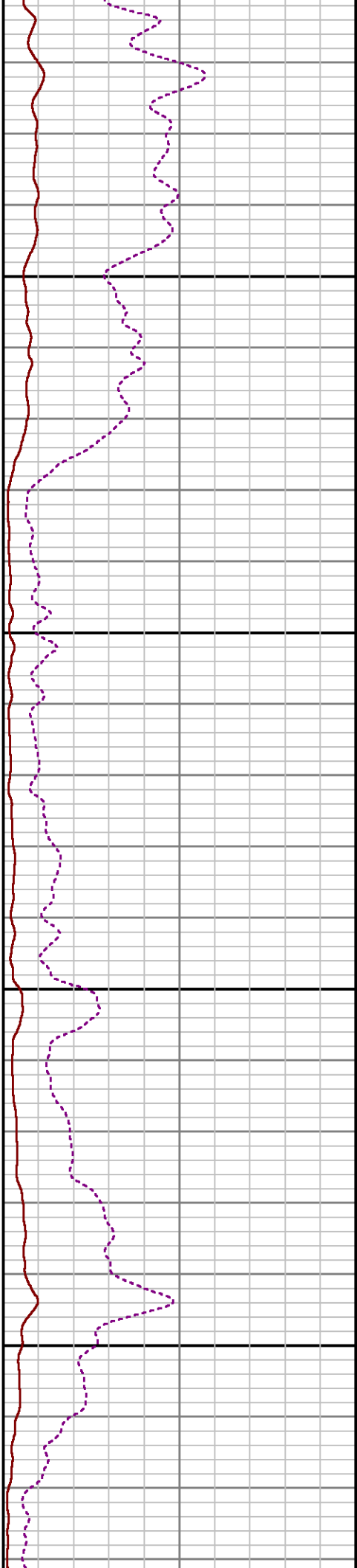
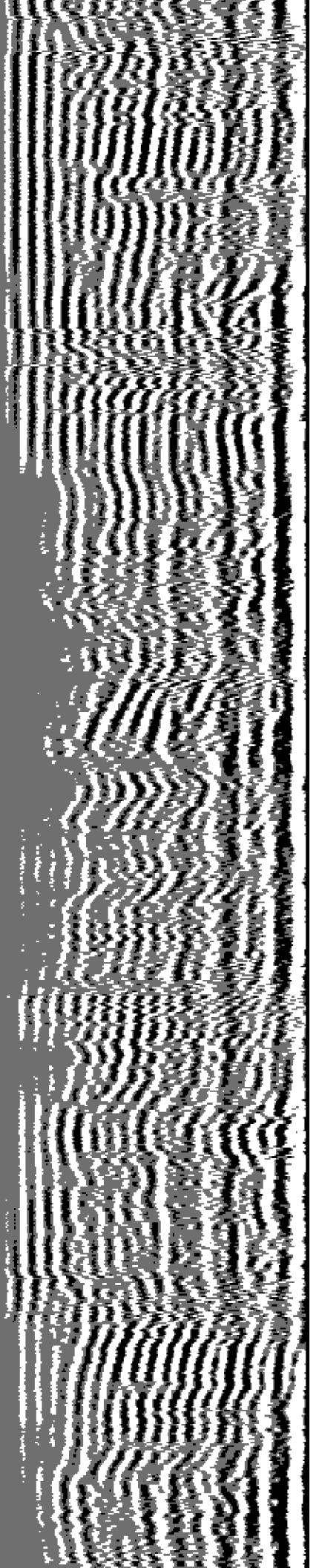


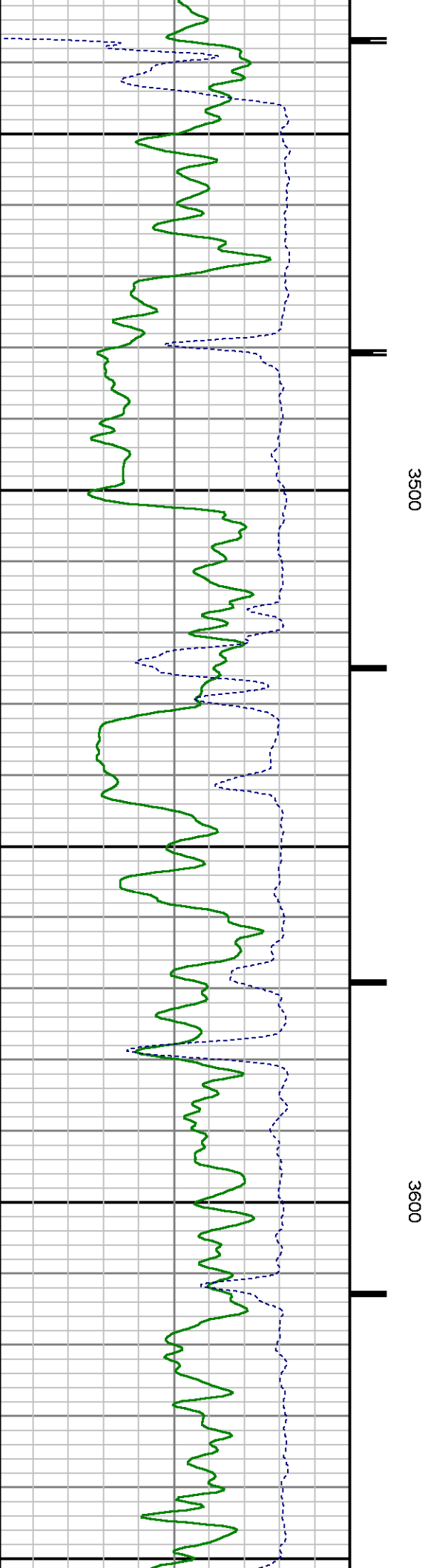
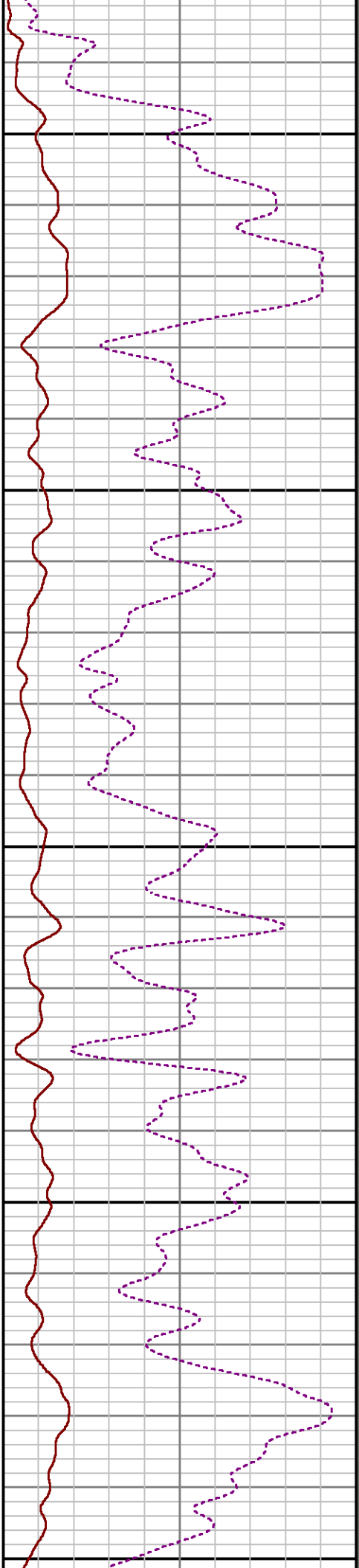
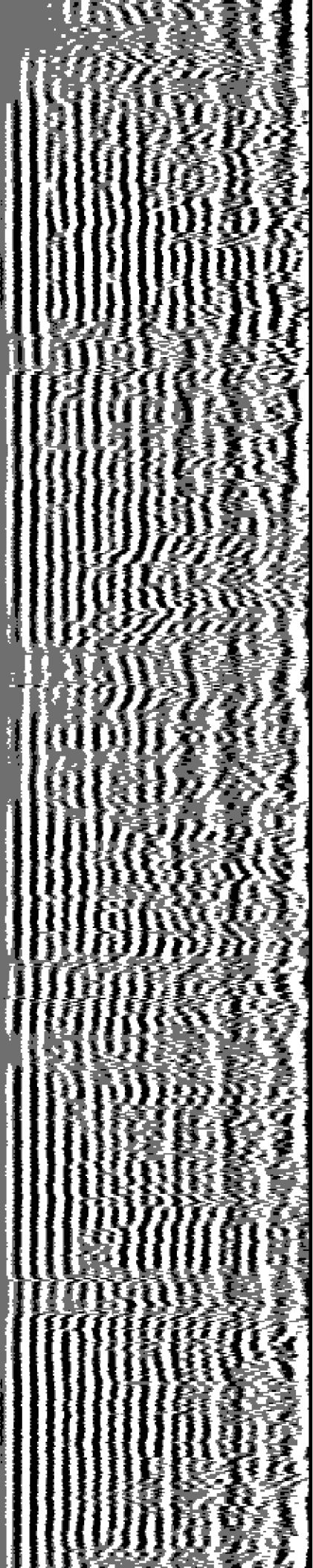


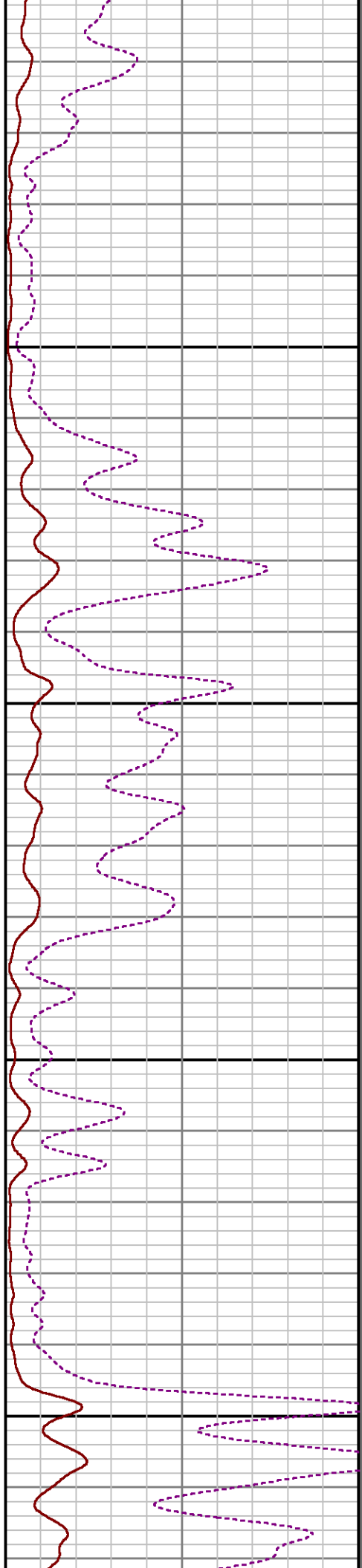
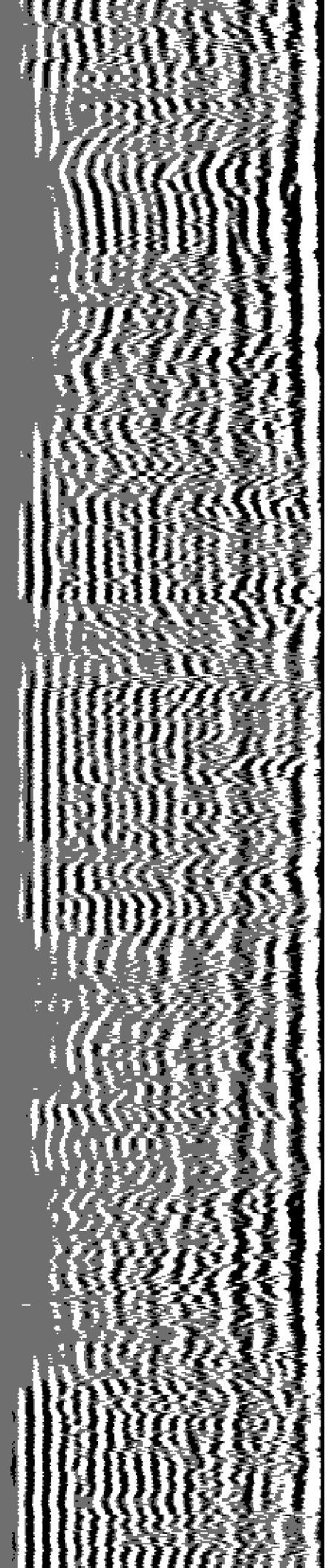






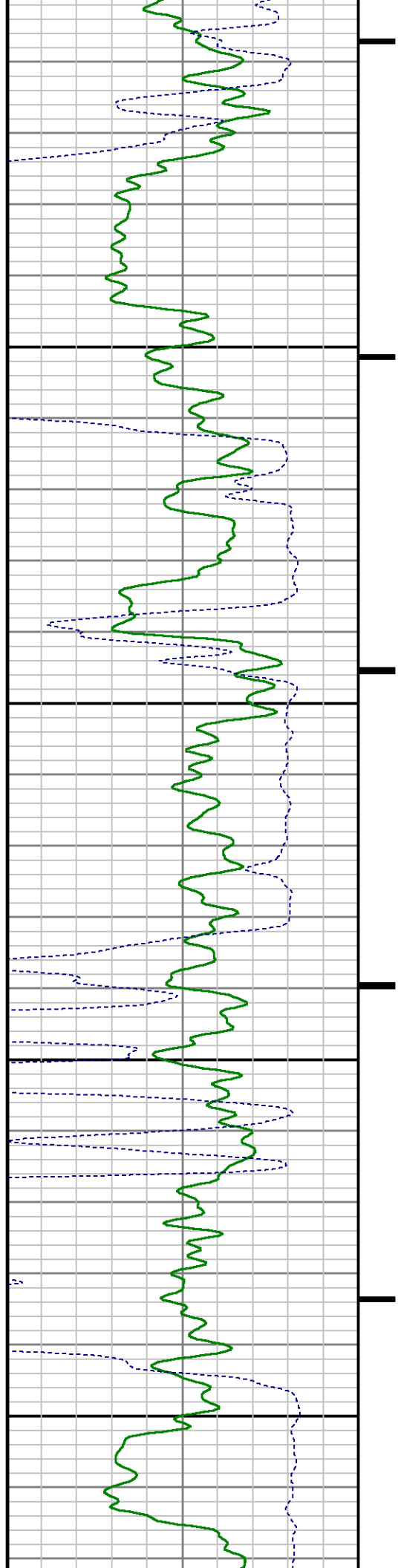


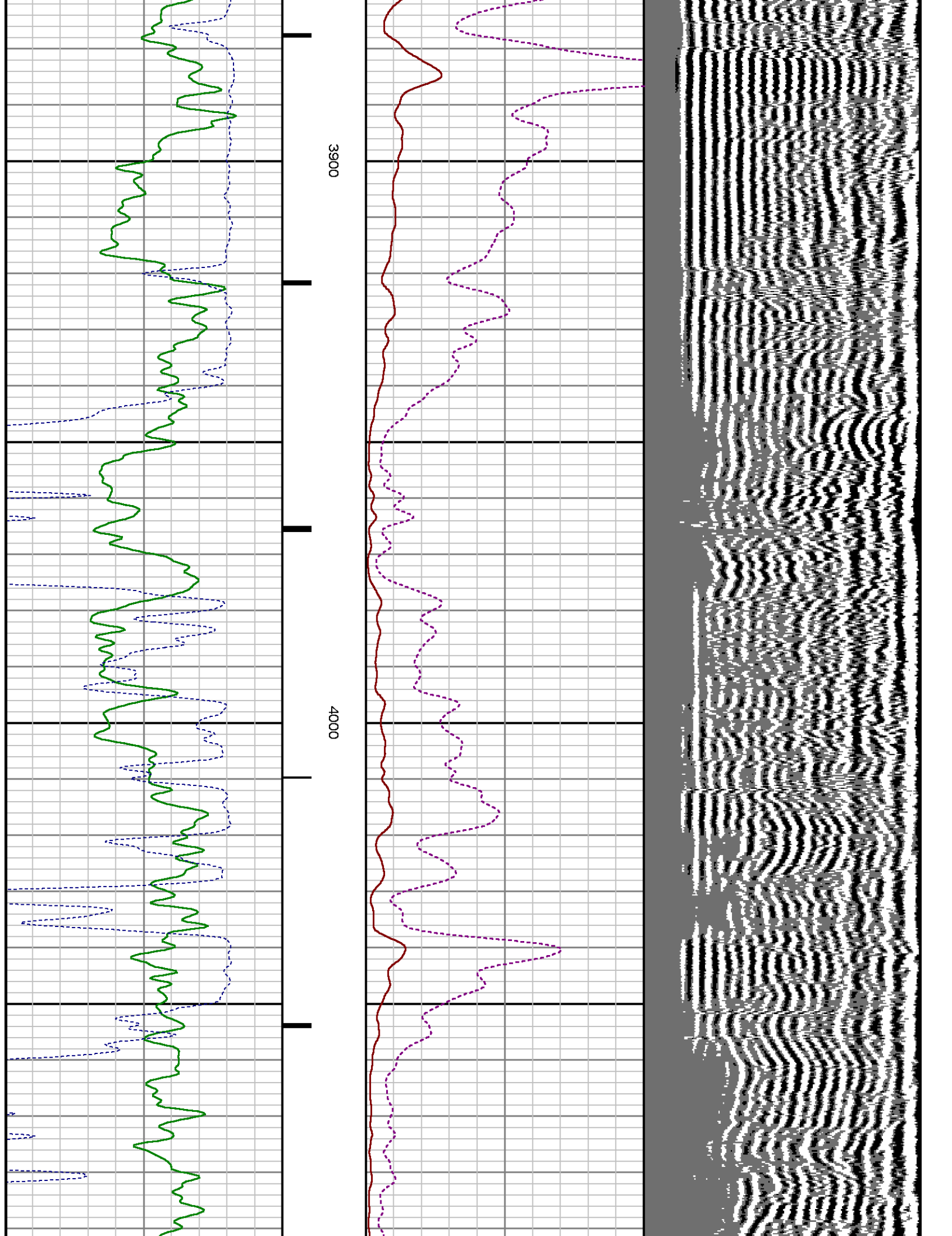


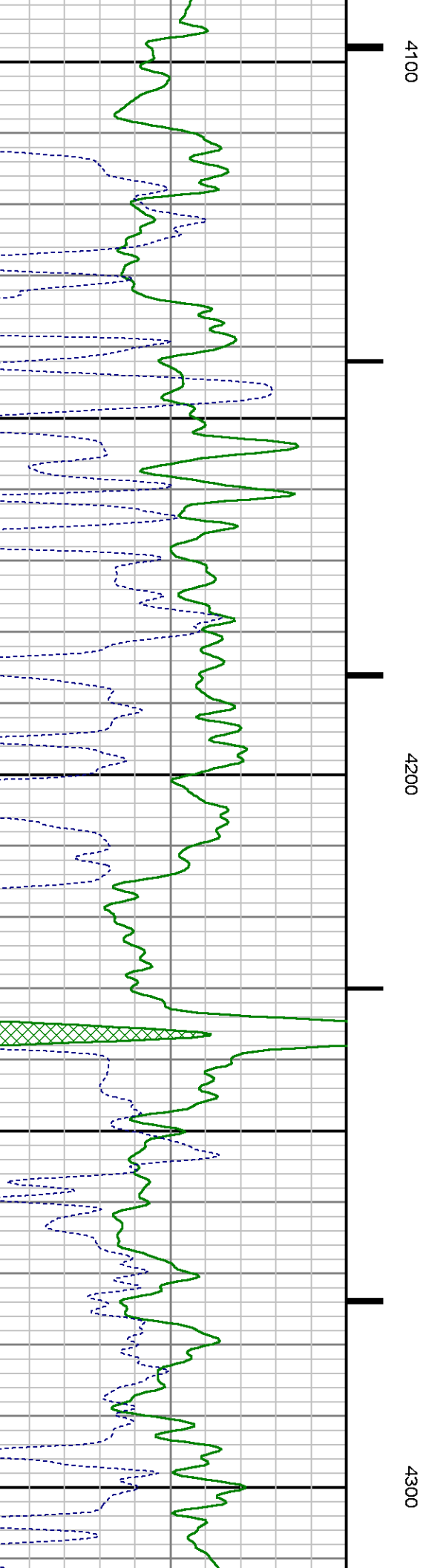
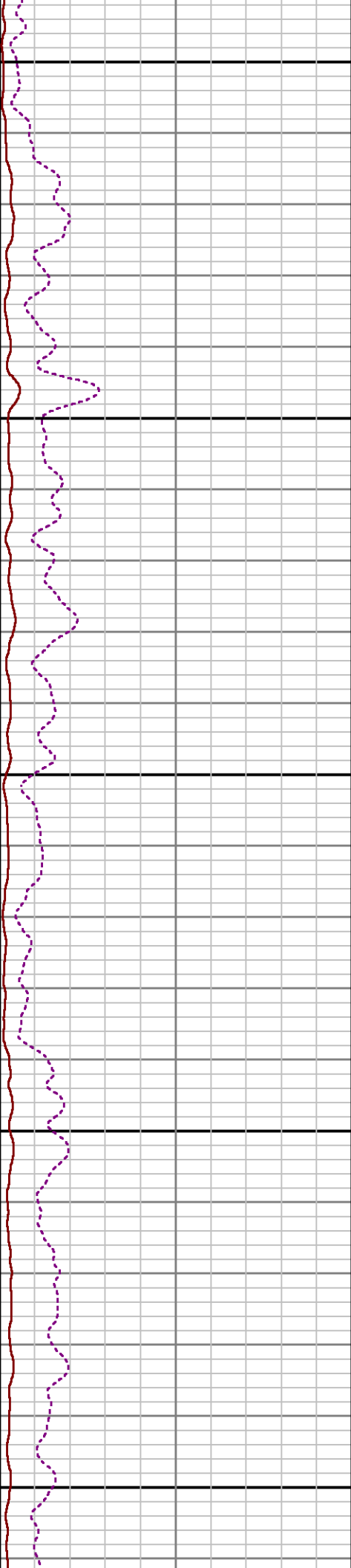
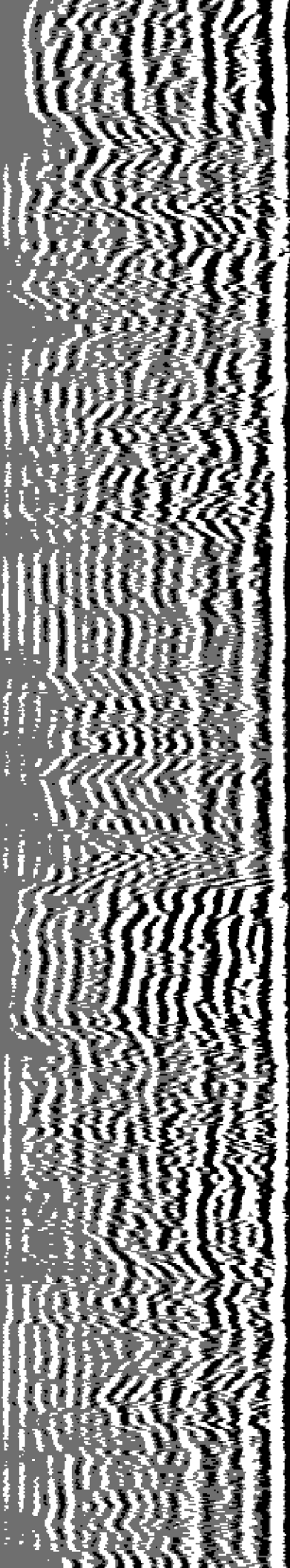


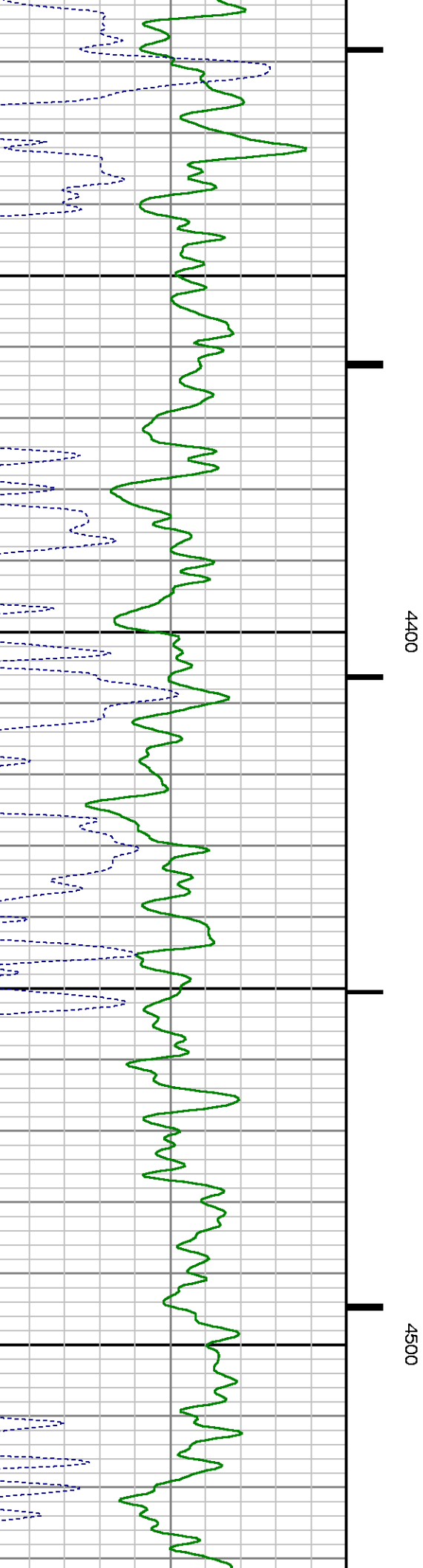
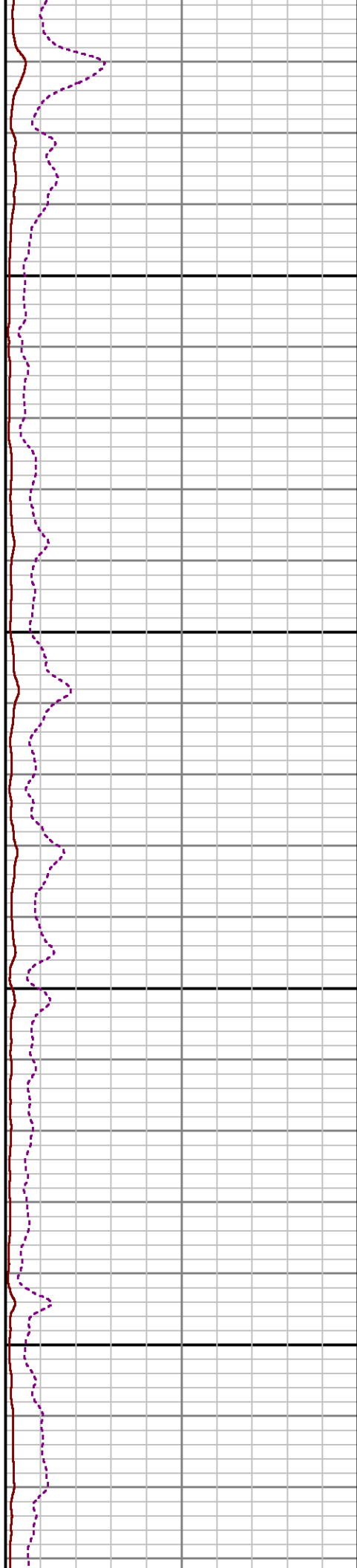
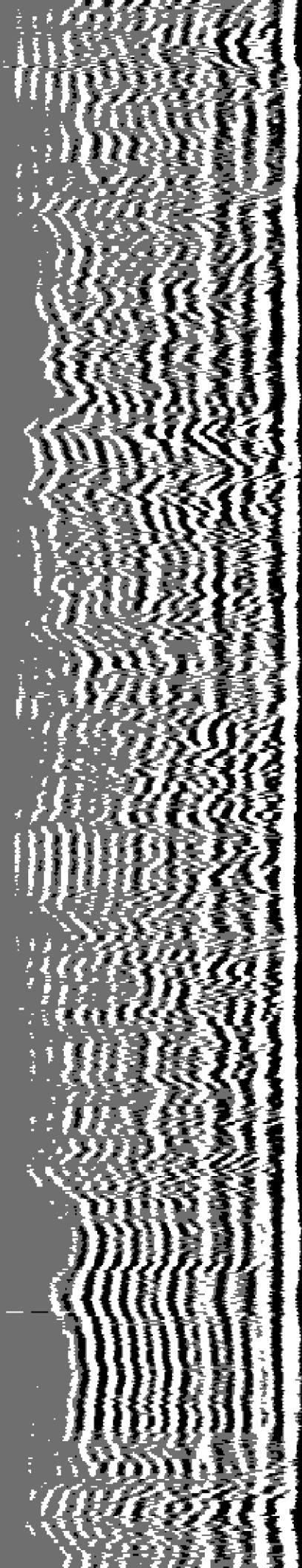
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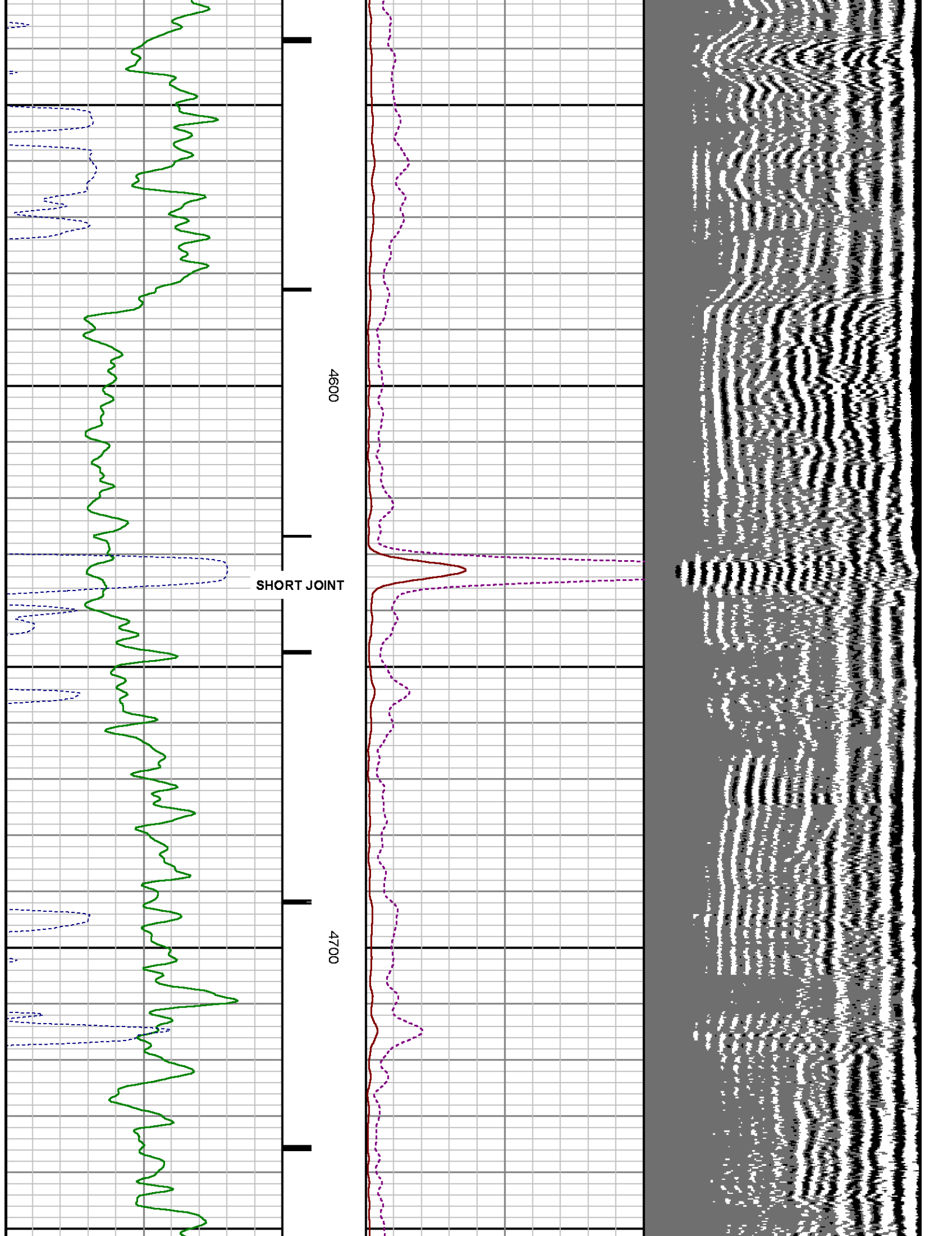
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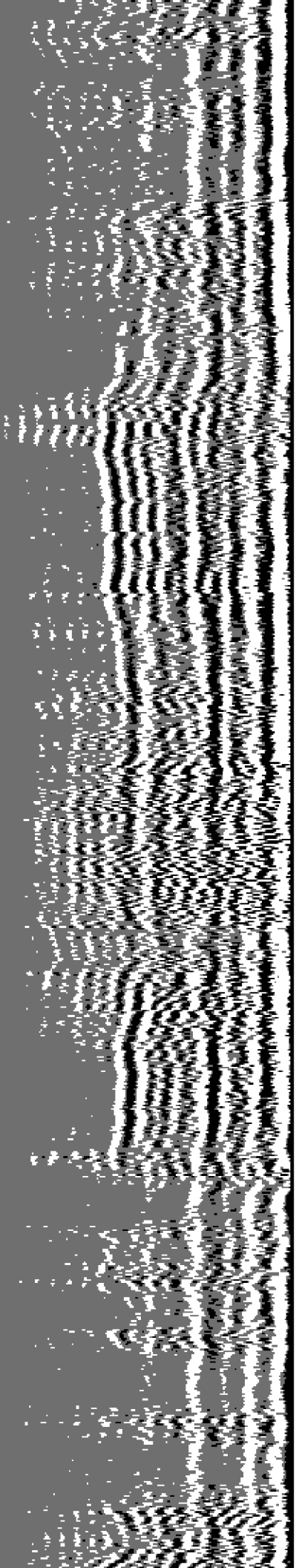






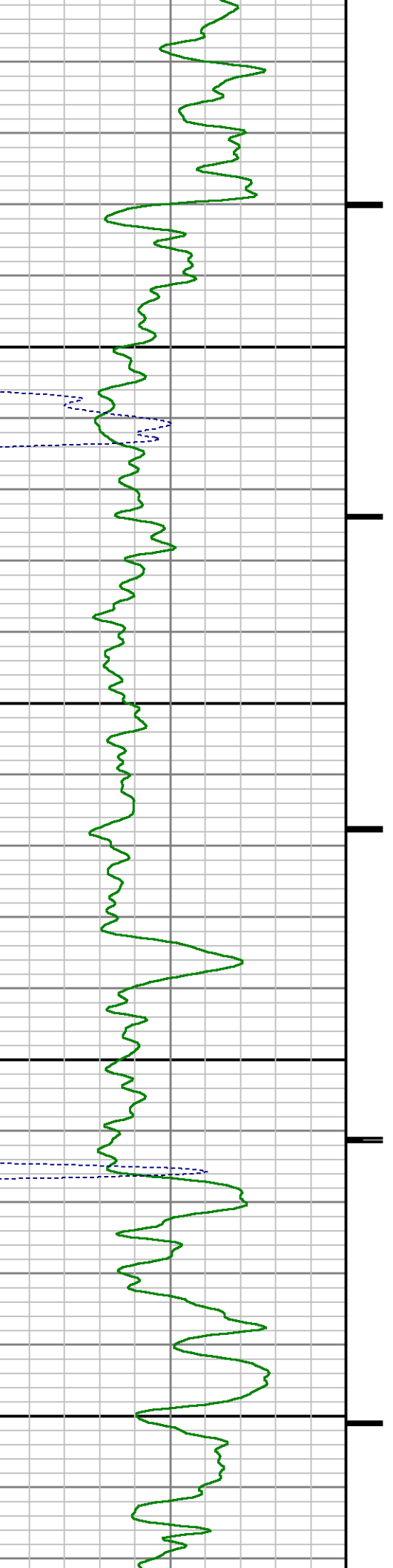


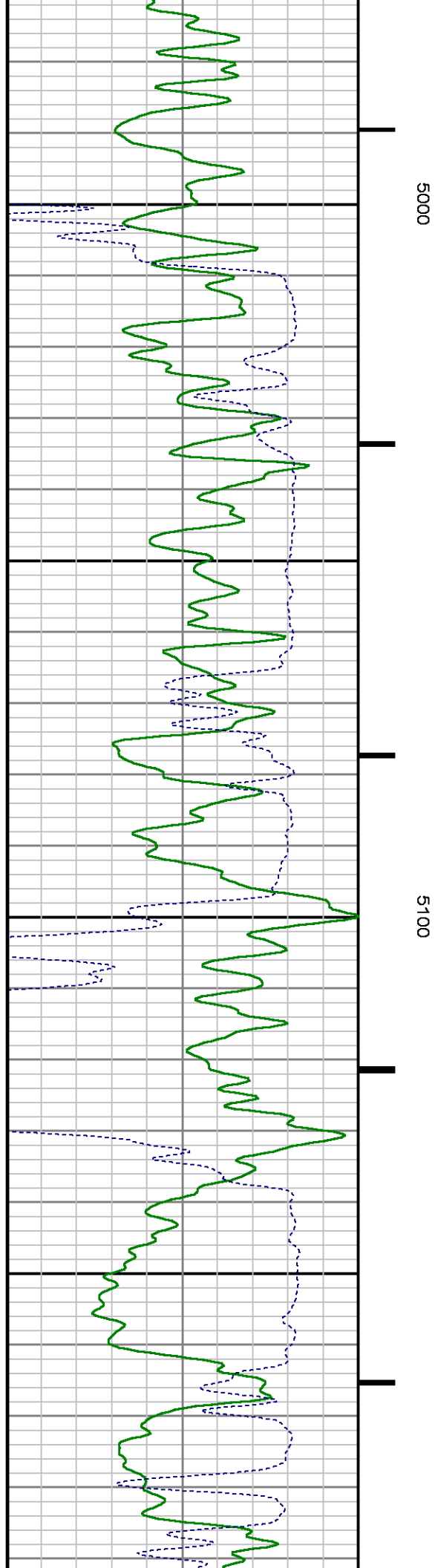
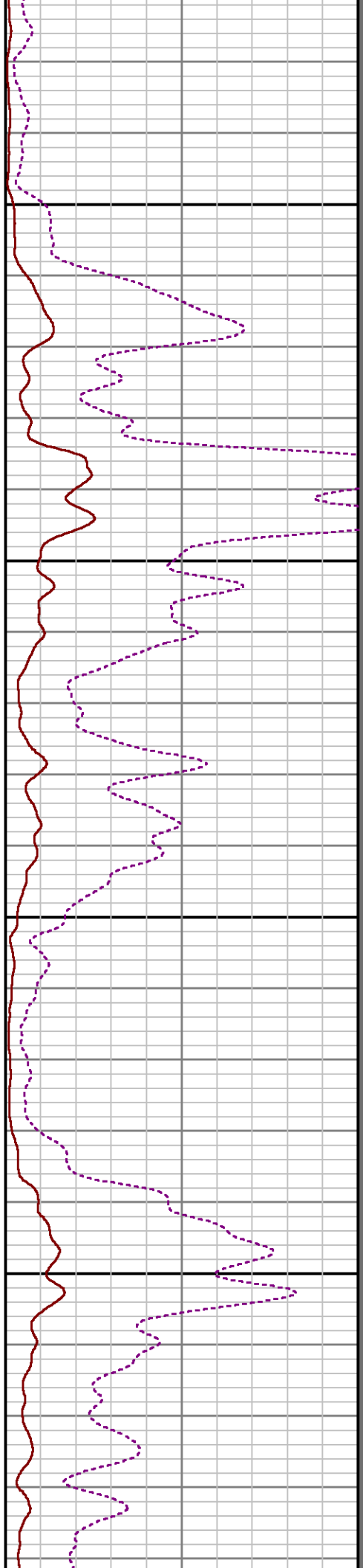
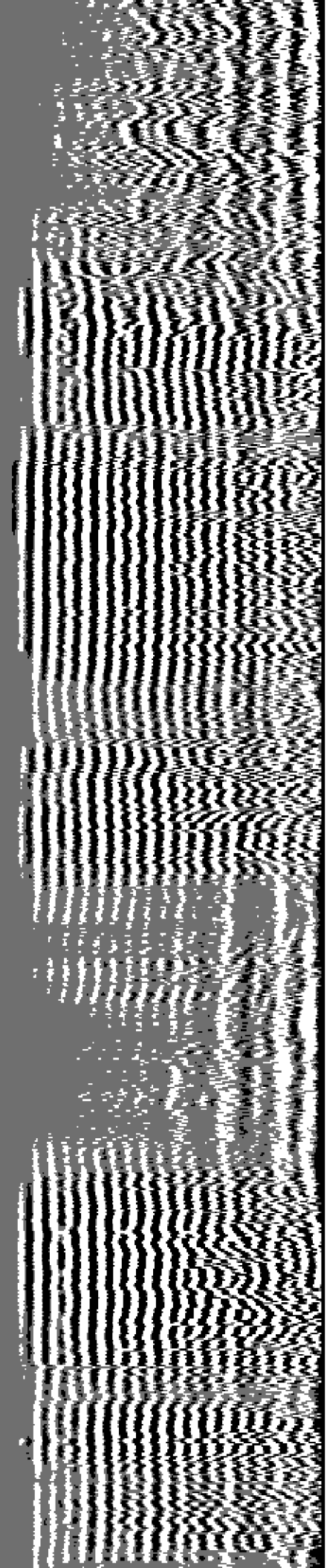


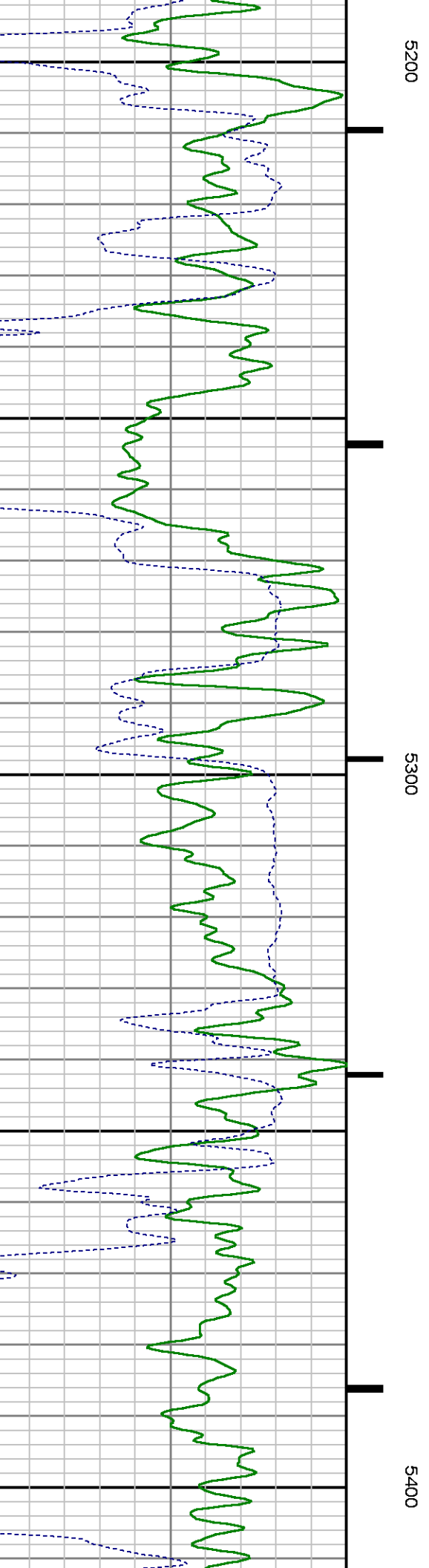
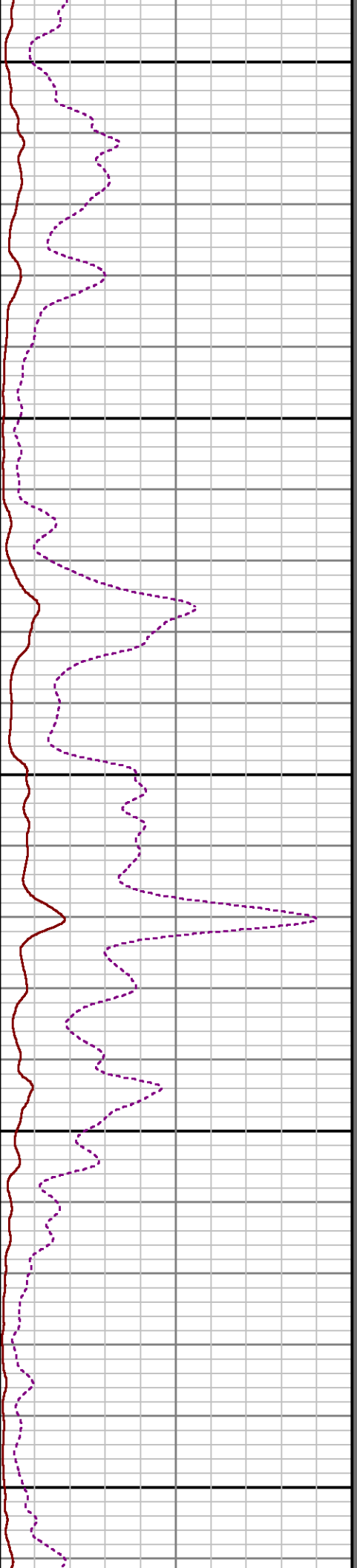
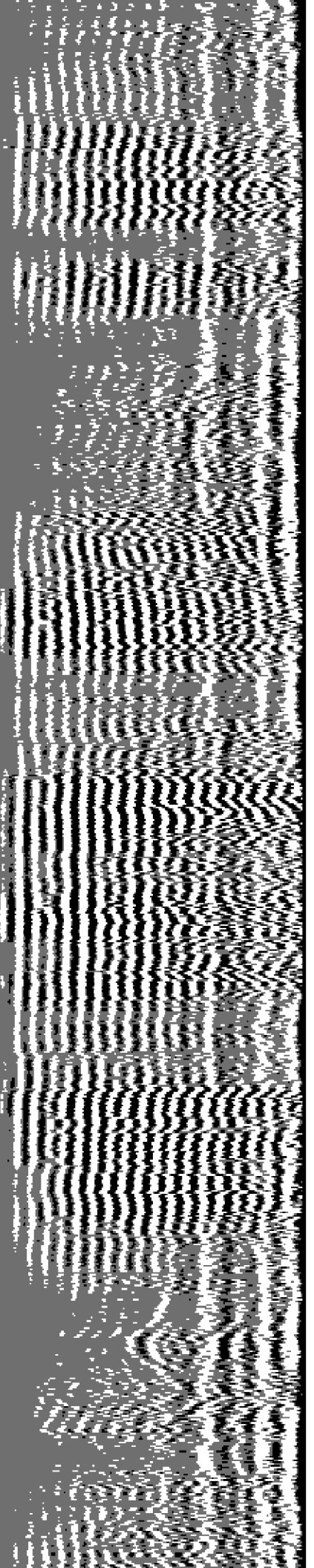


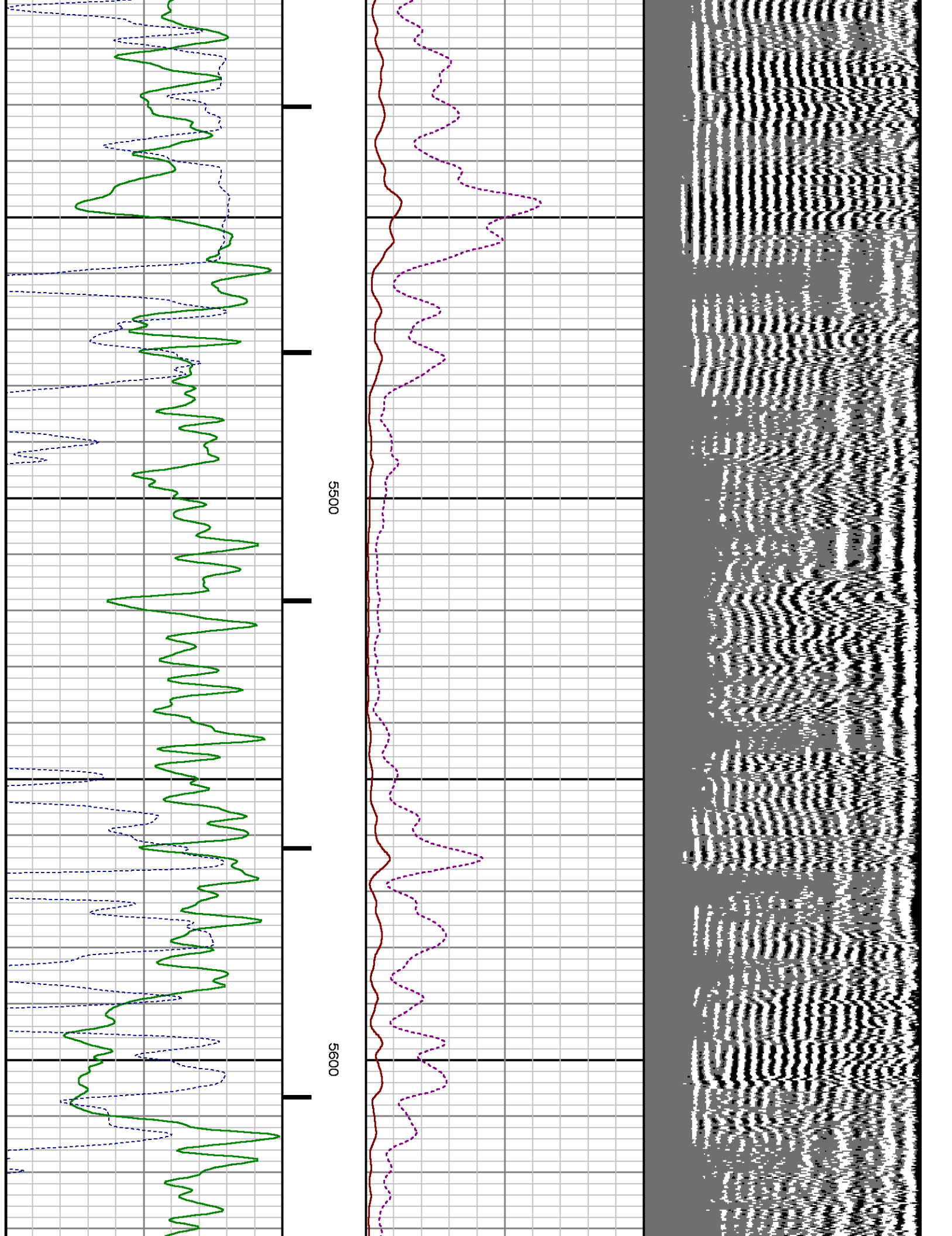
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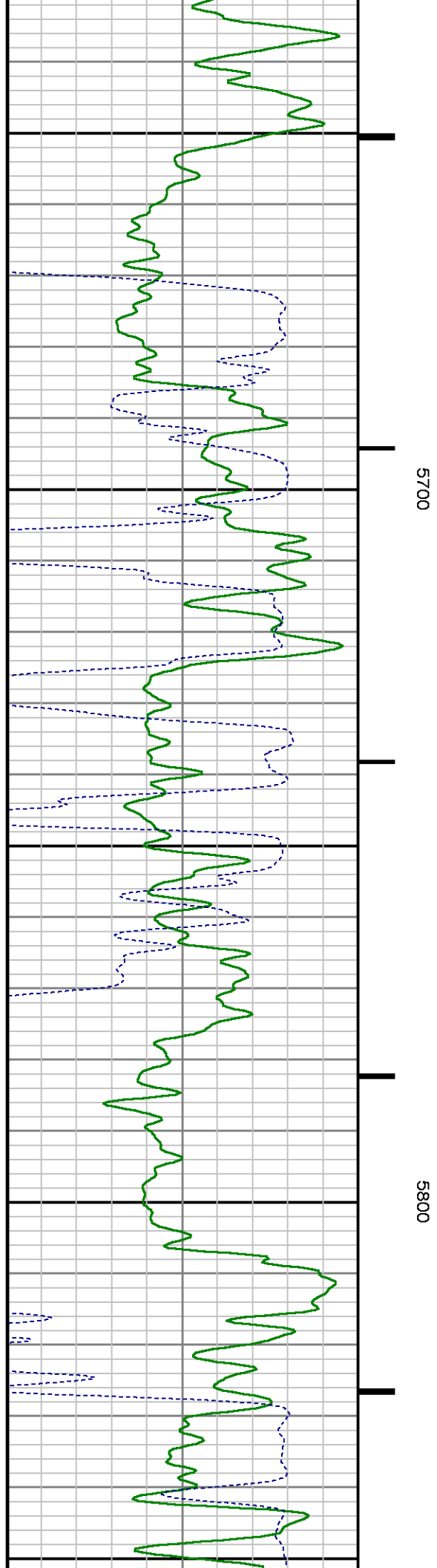
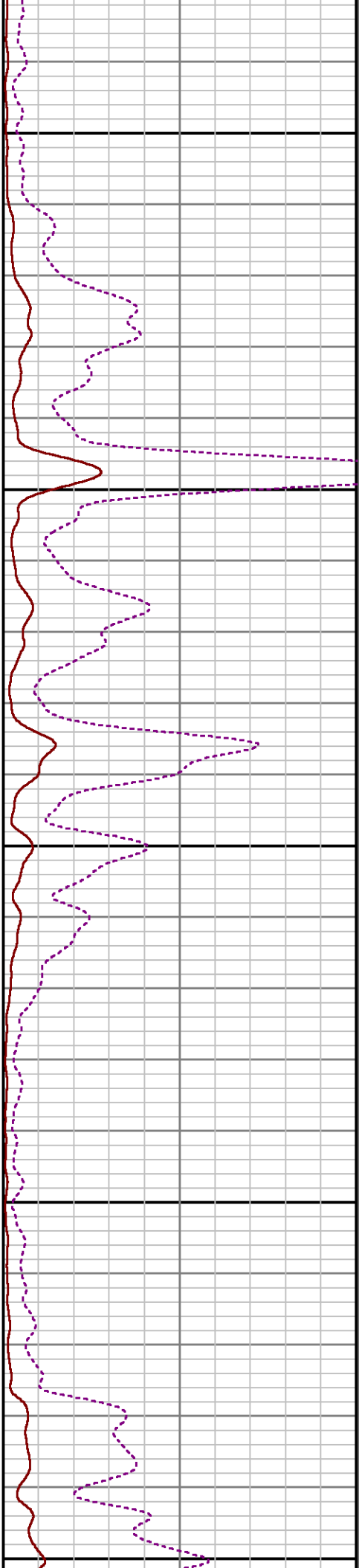
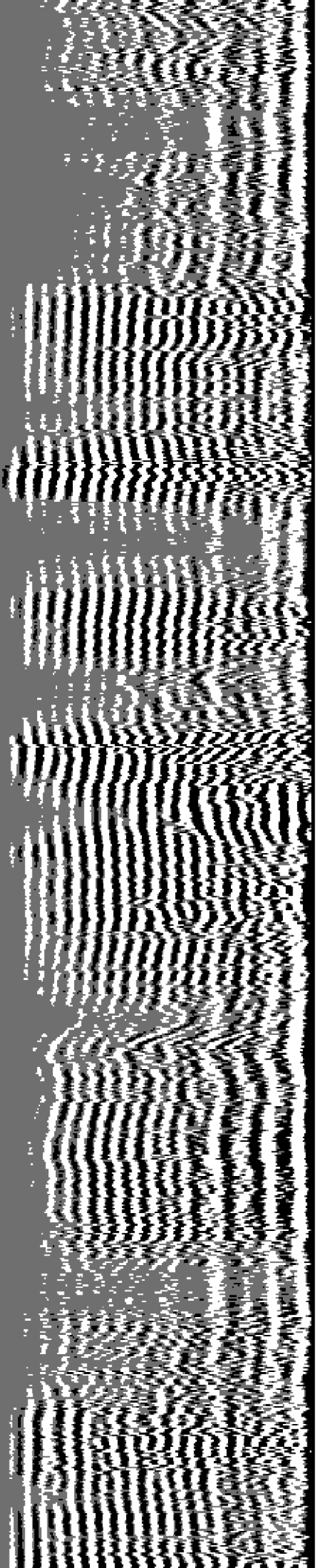
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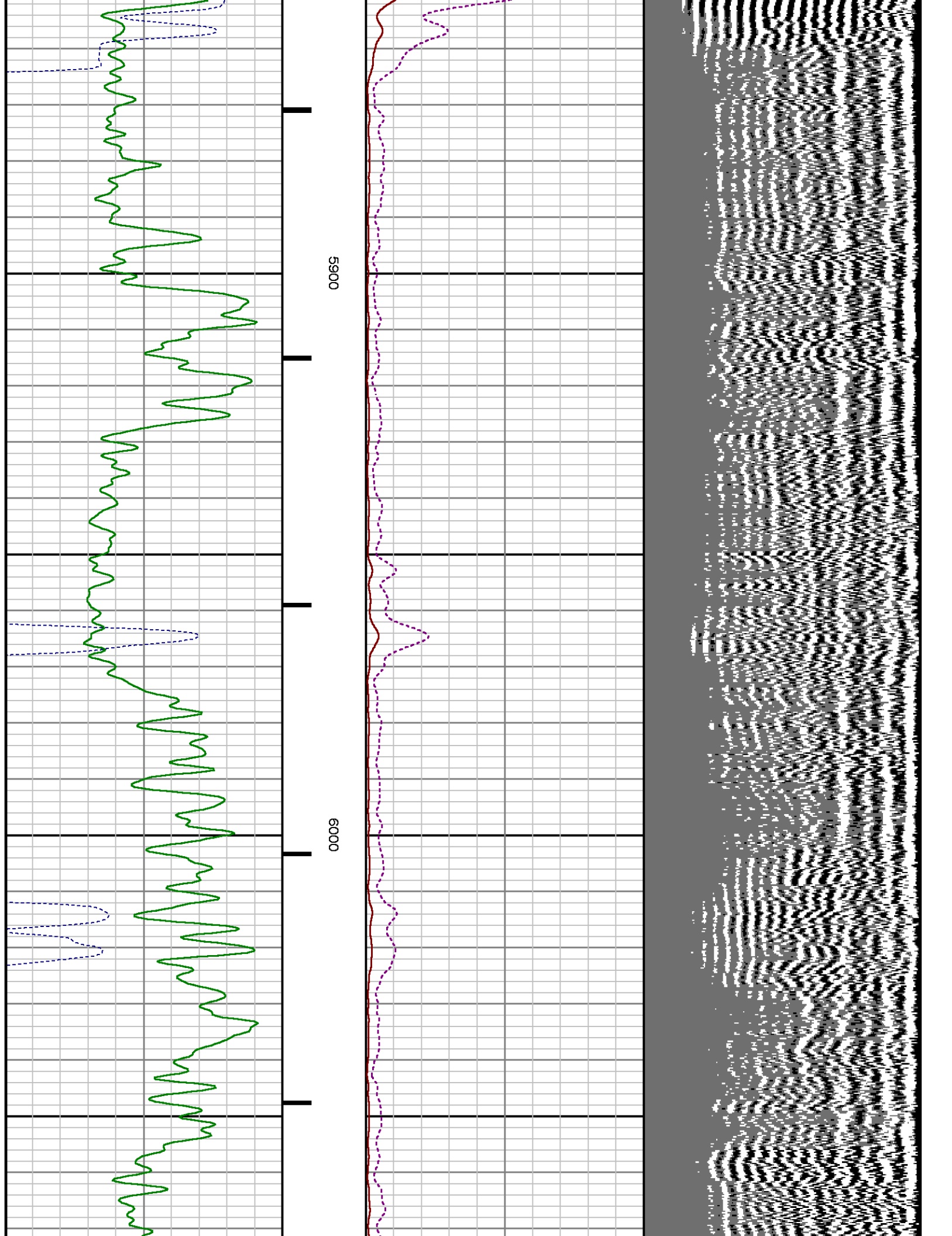


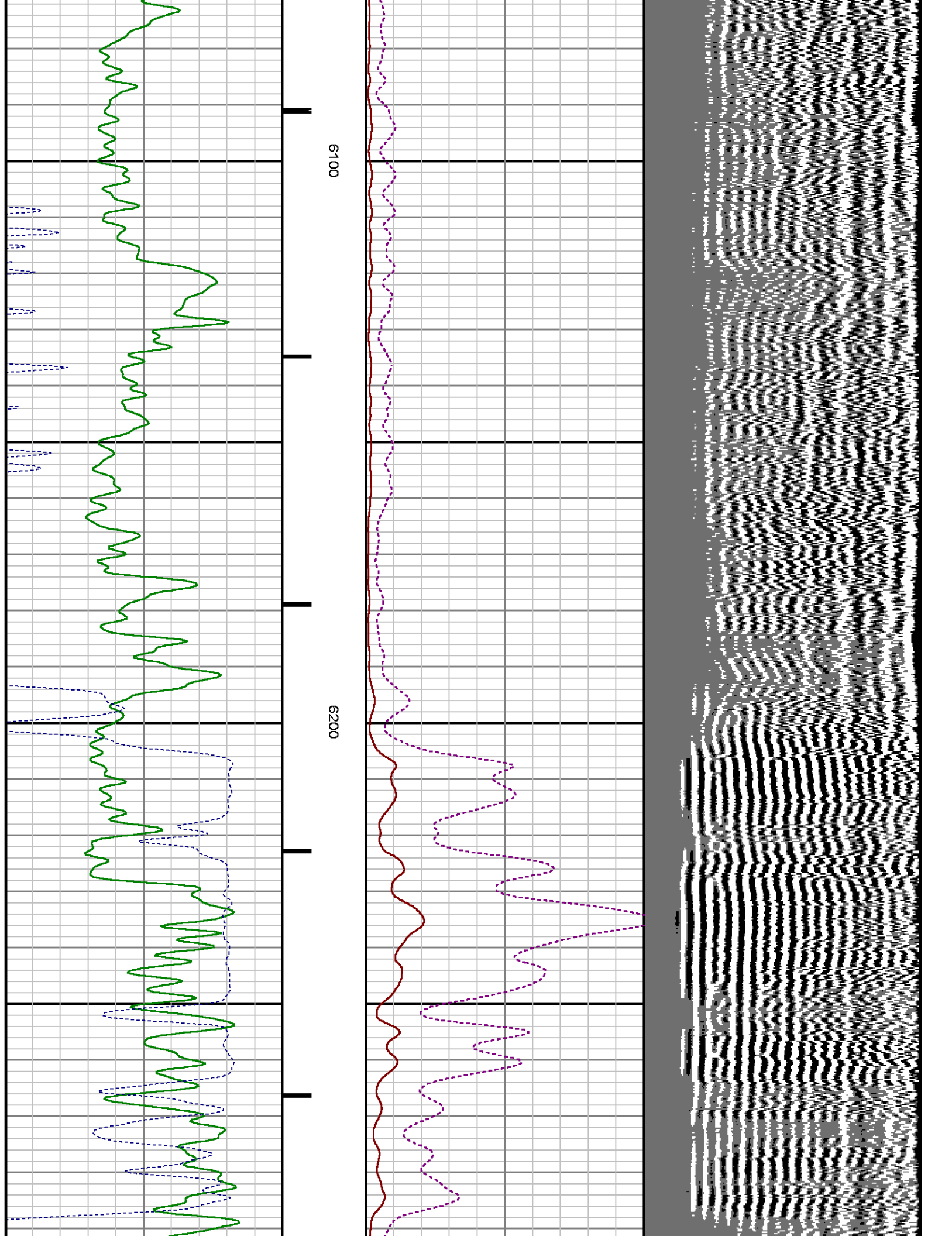


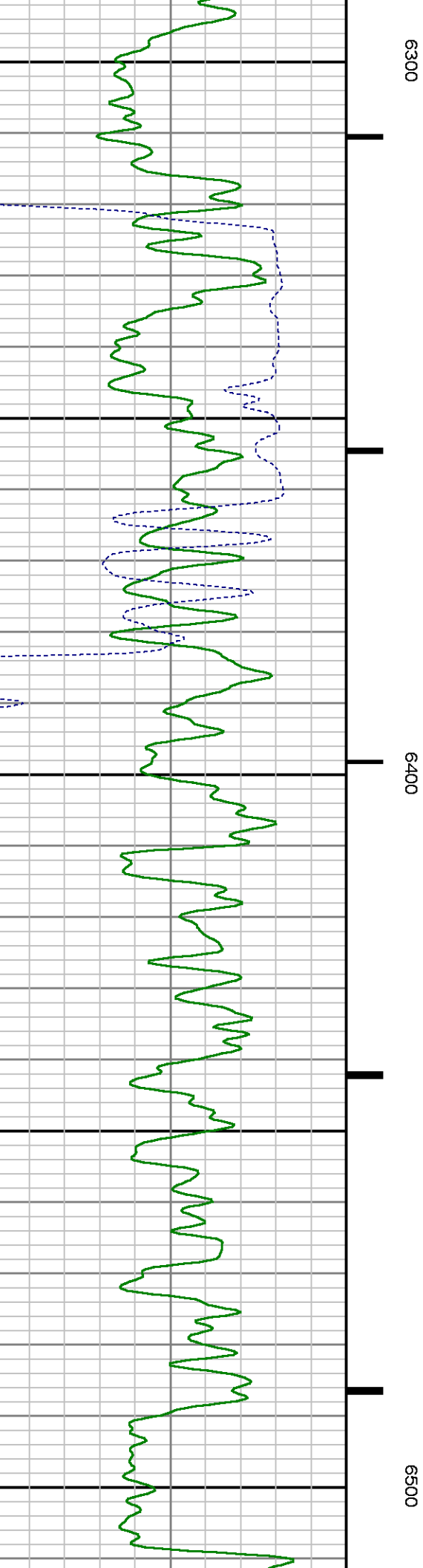
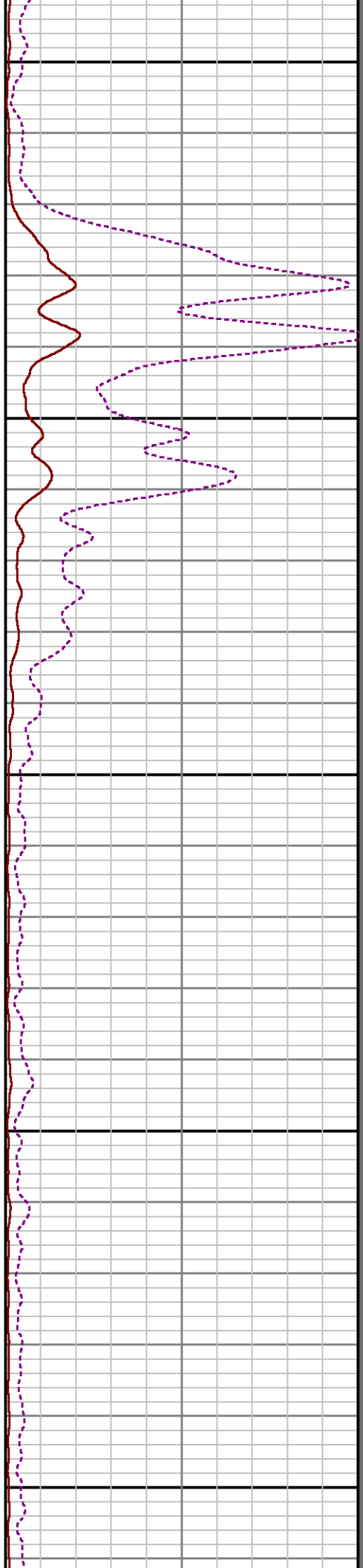
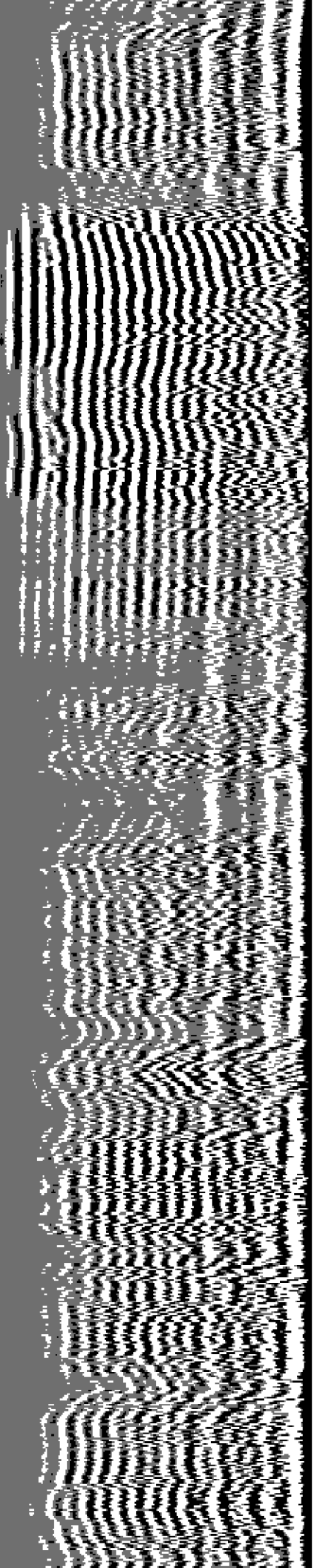


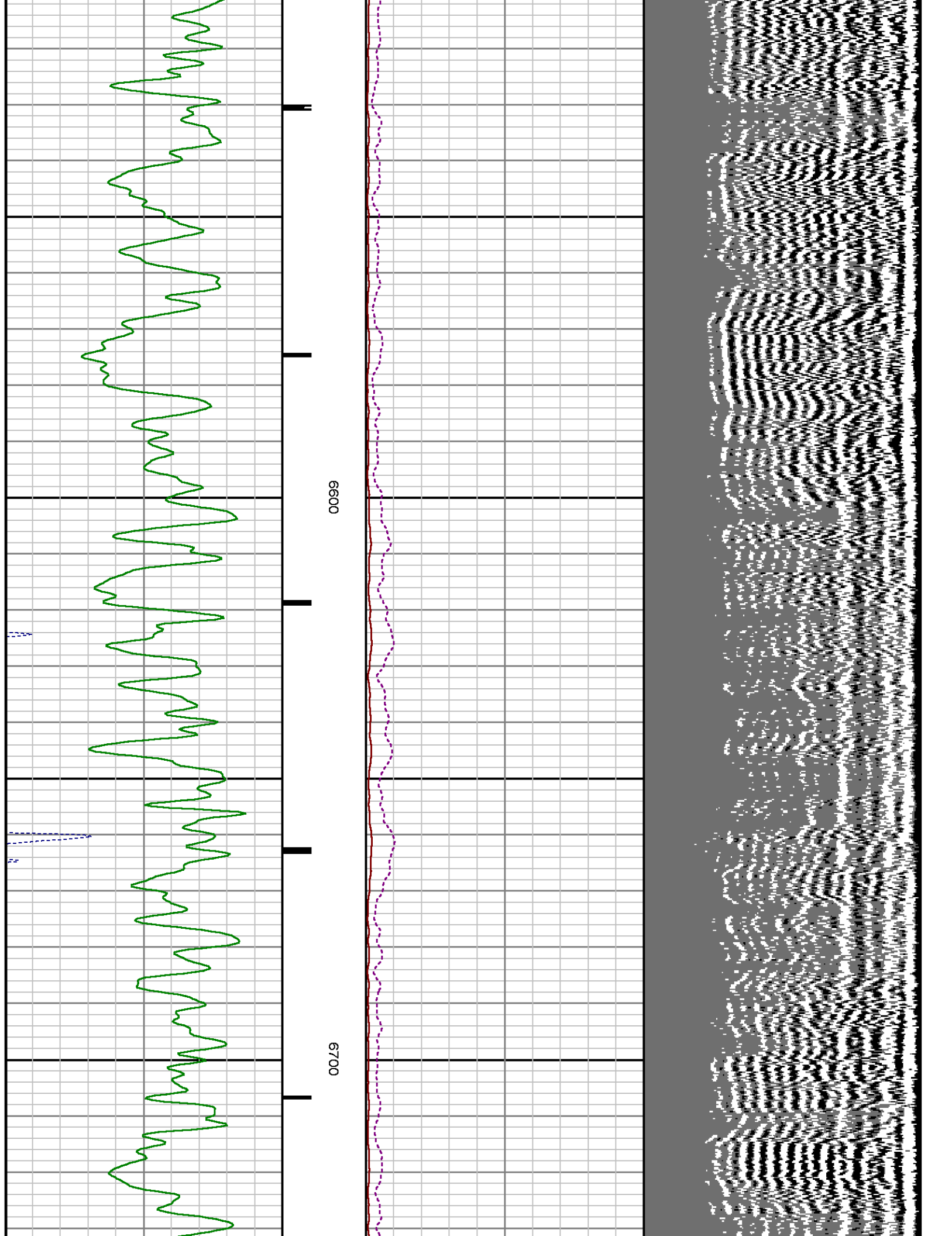


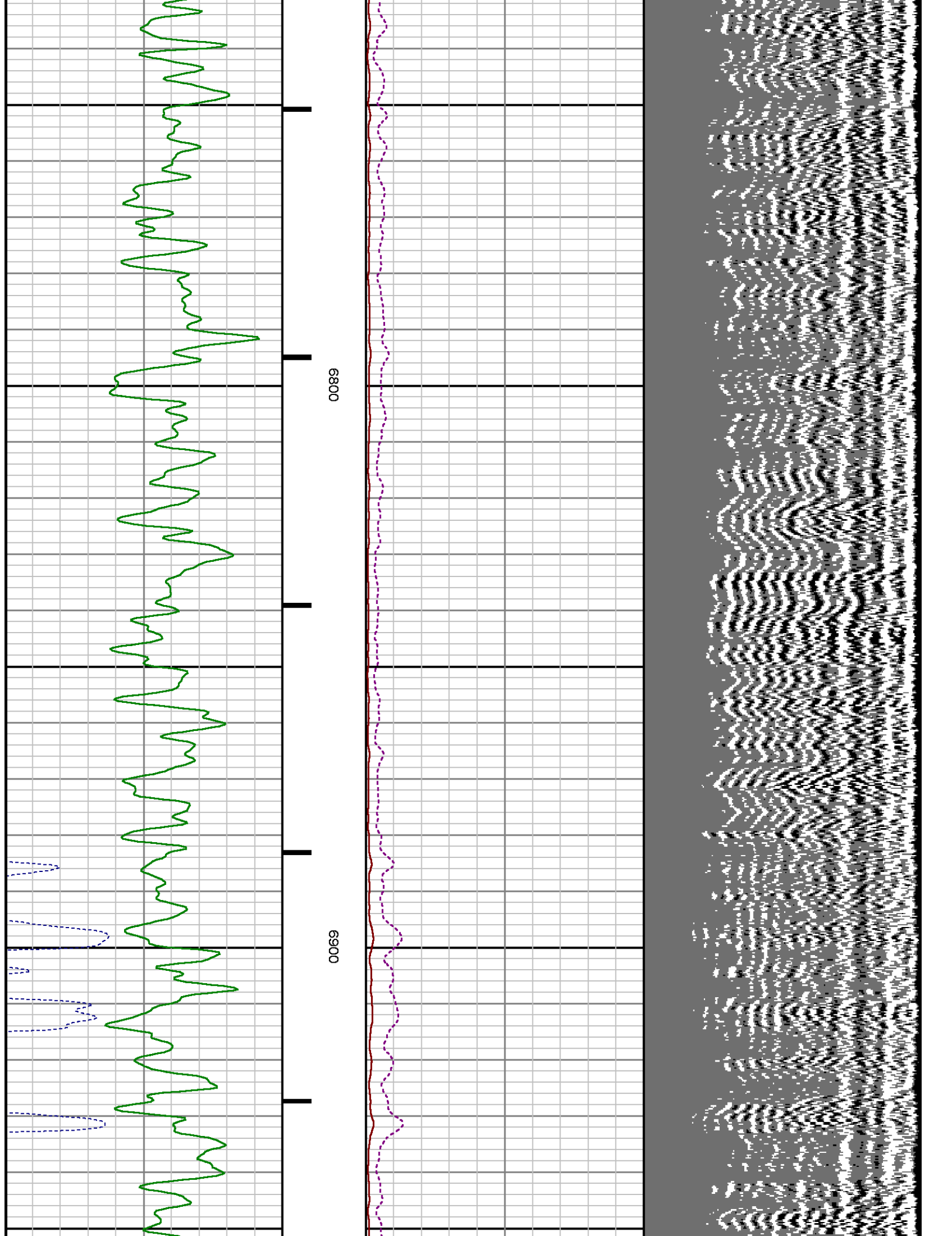


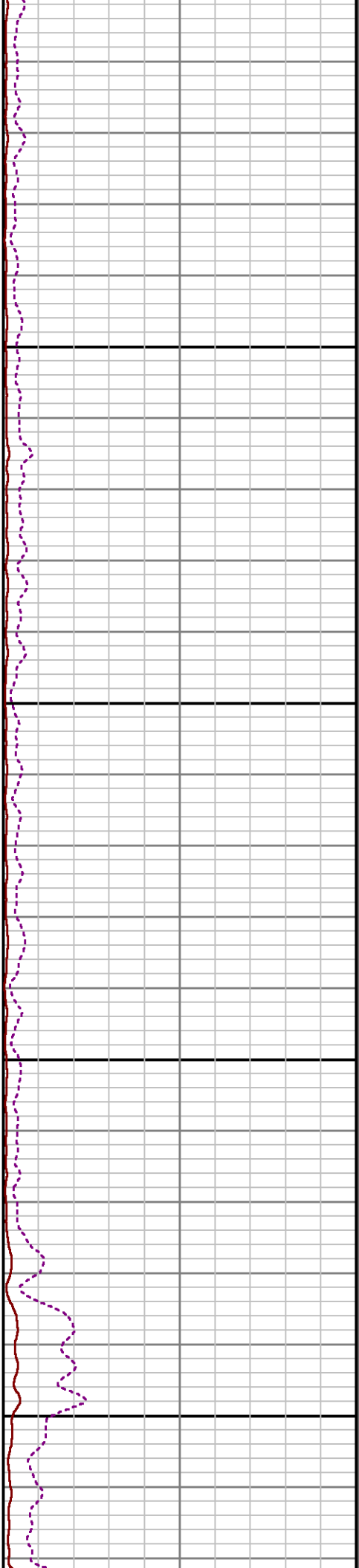
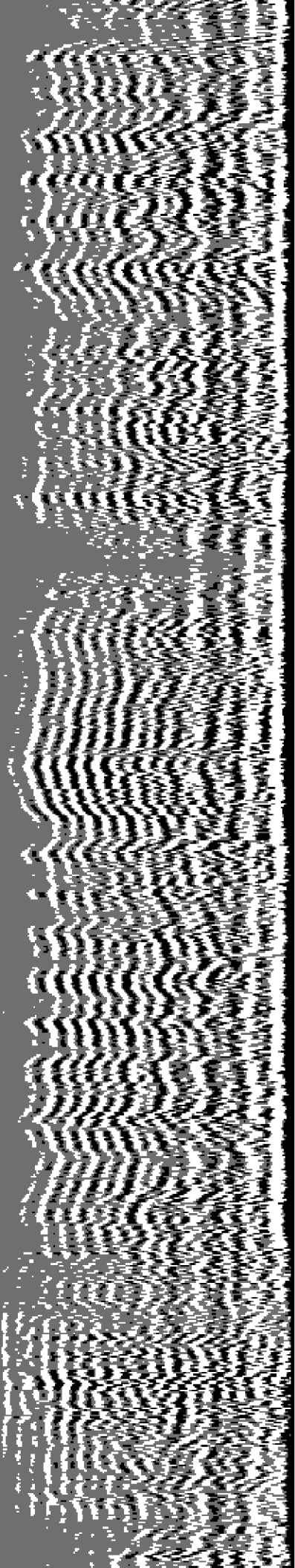






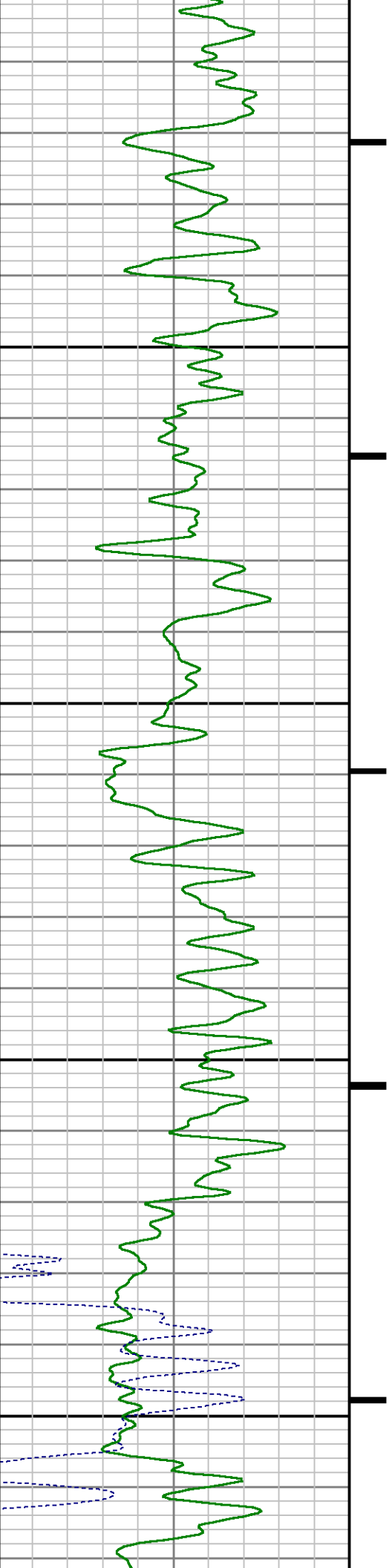


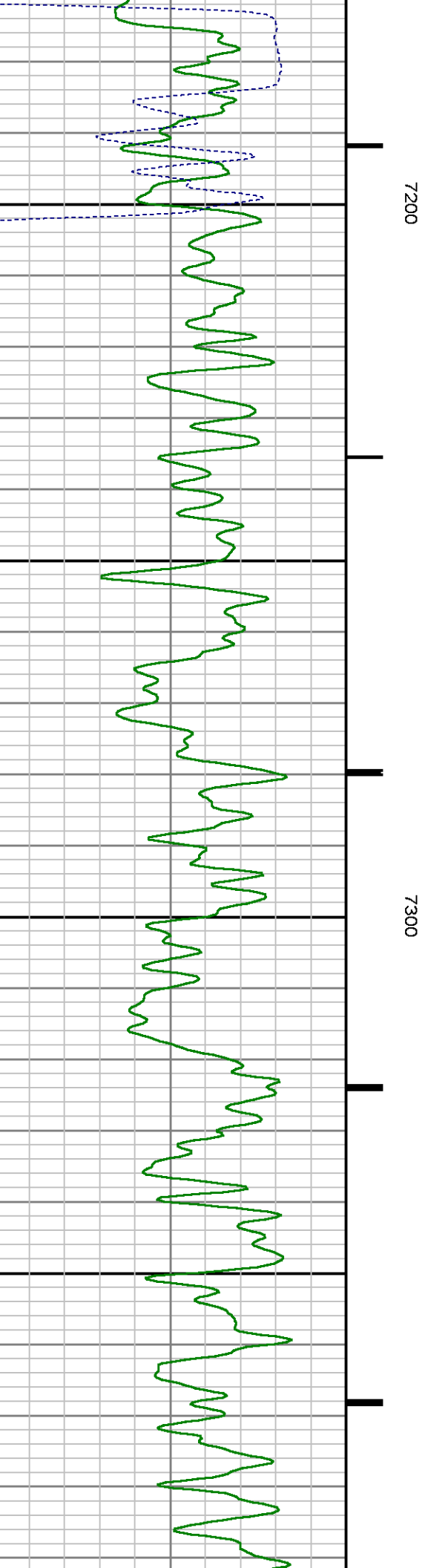
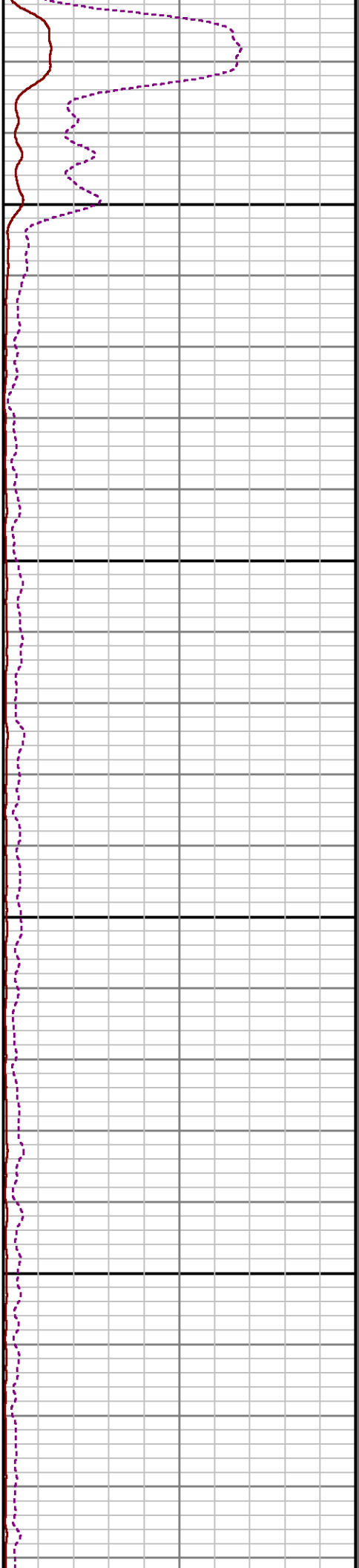
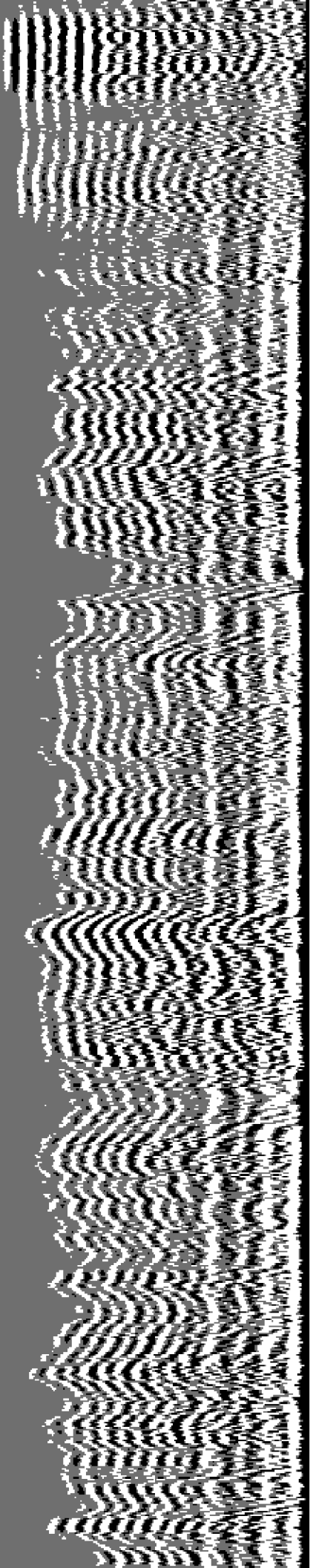


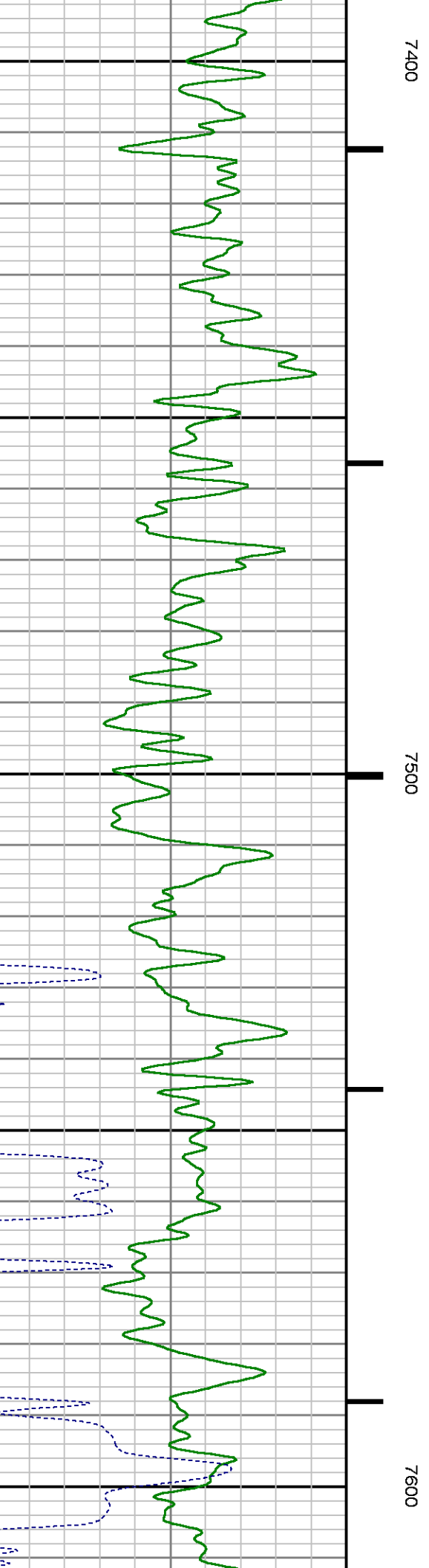
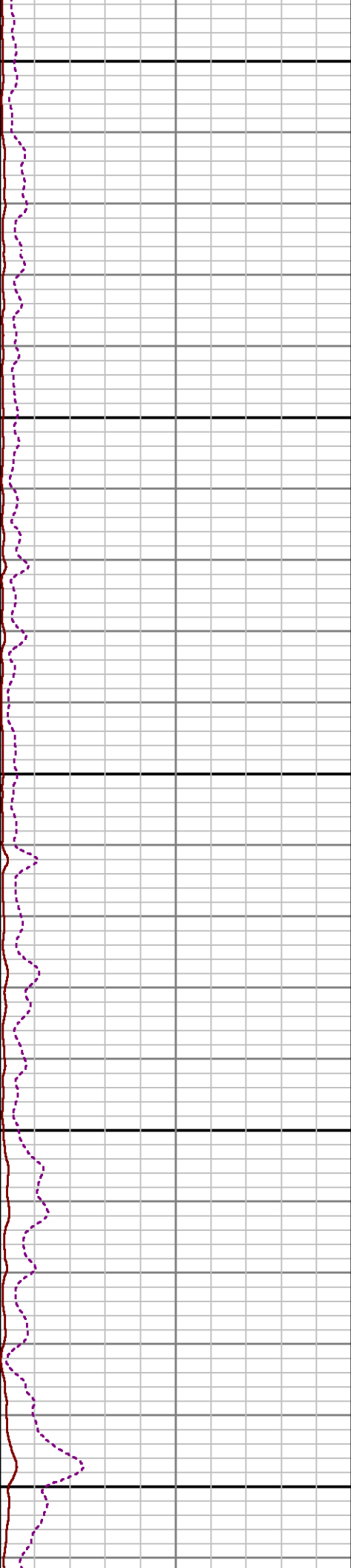
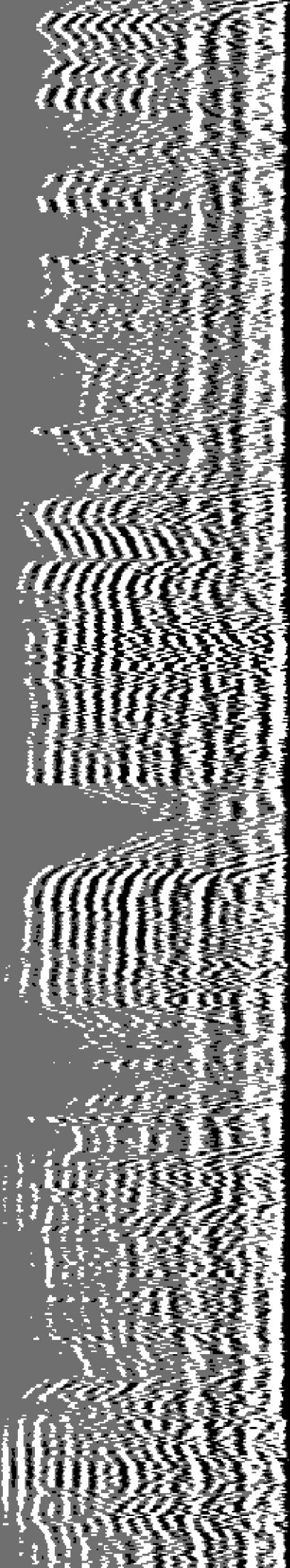


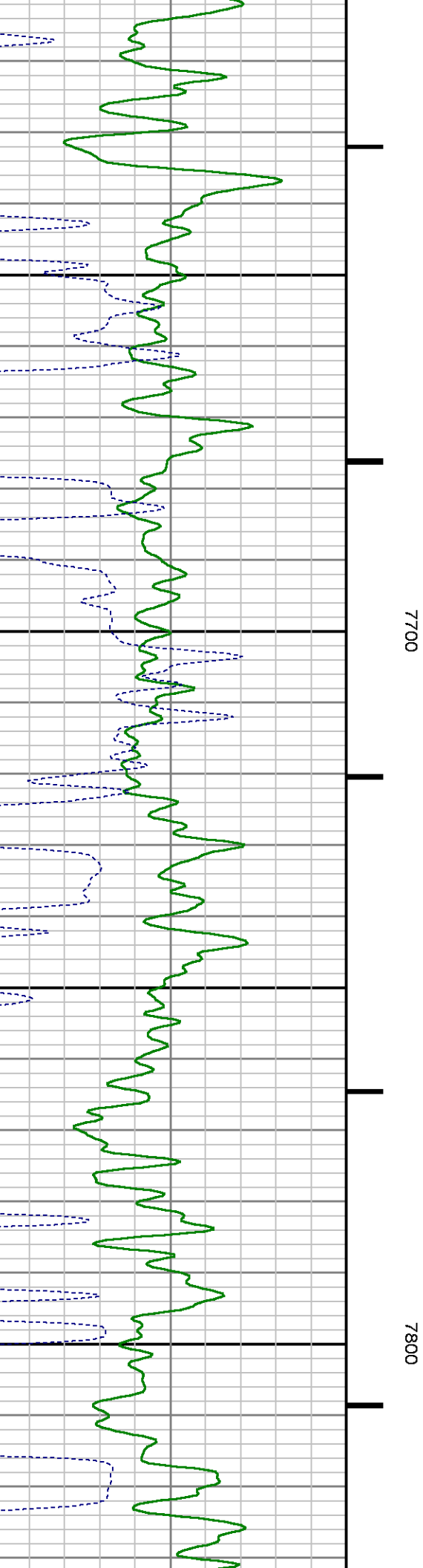
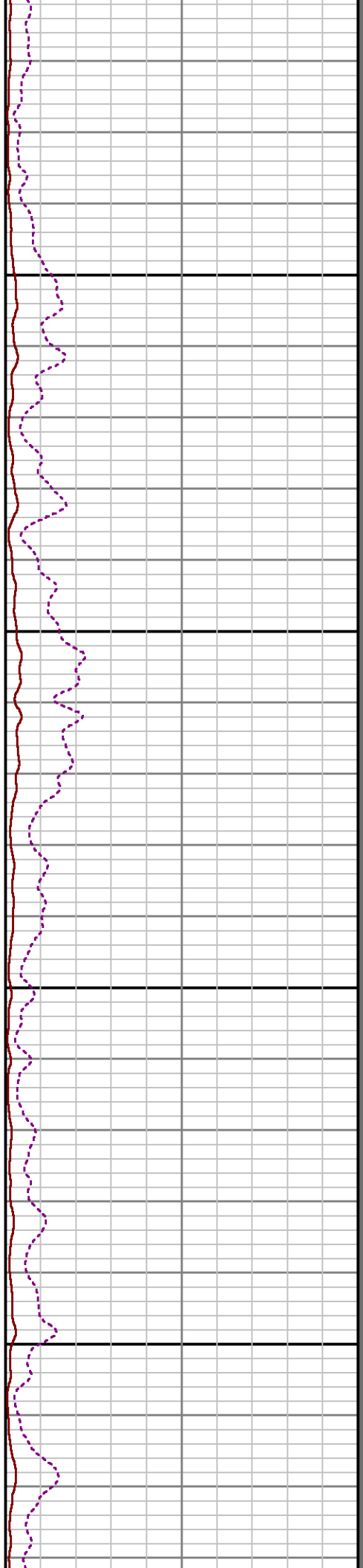
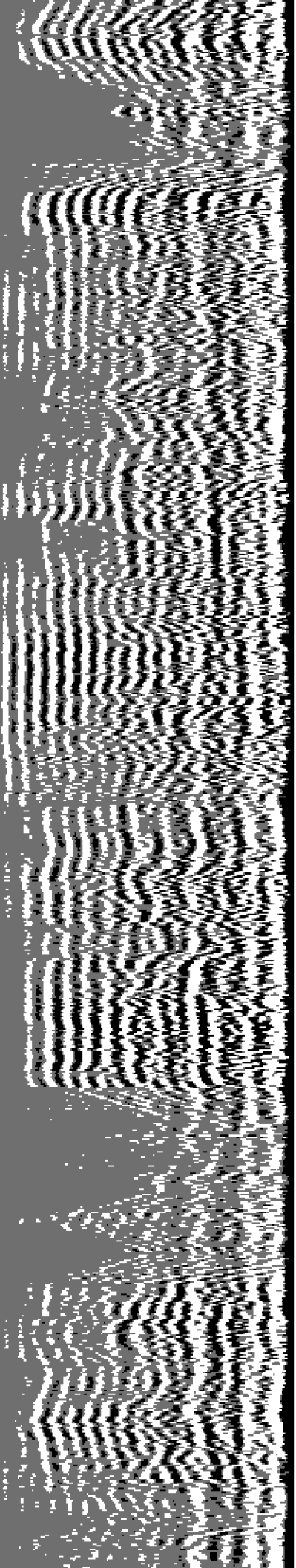
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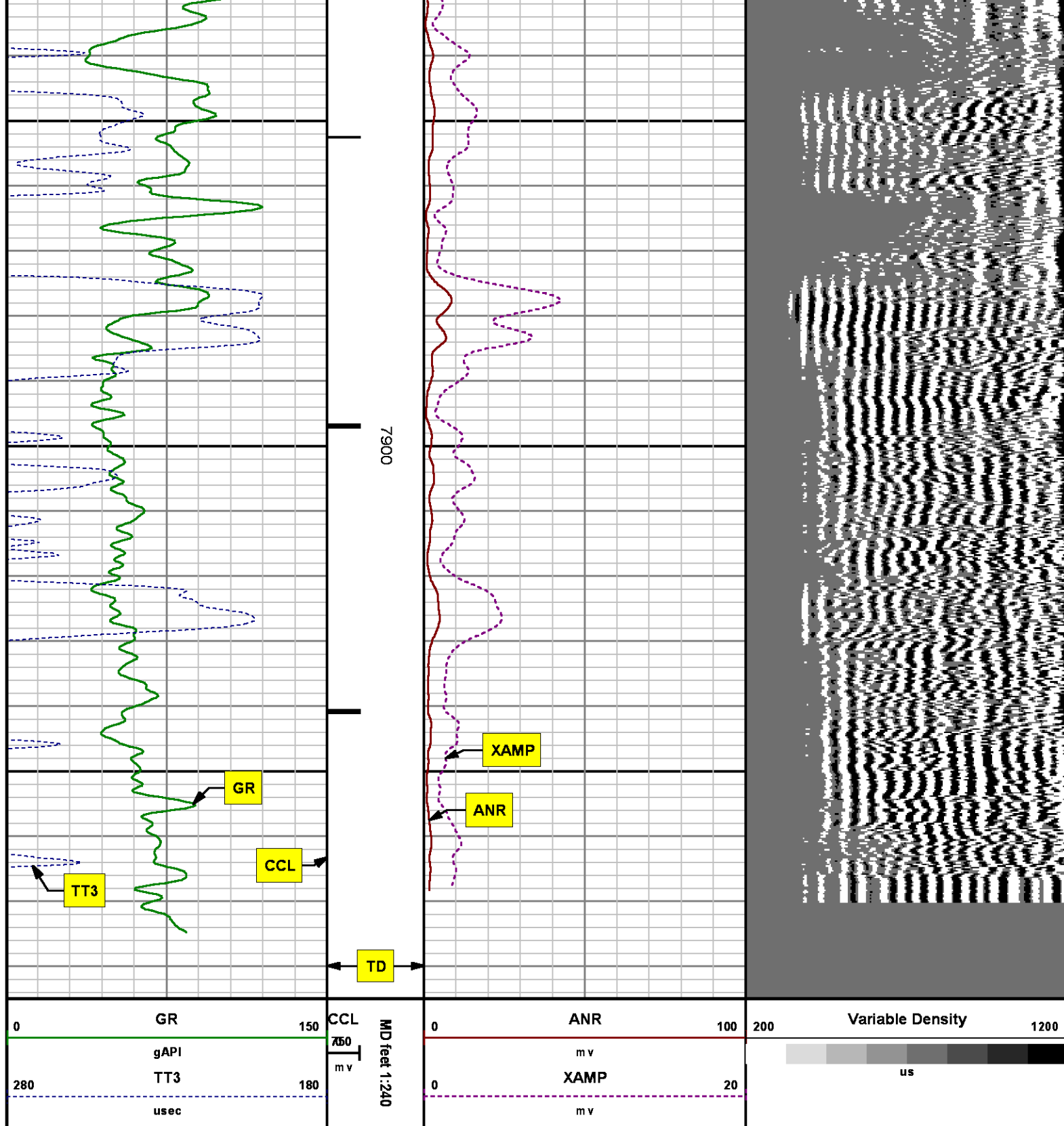
7100











SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	34.156	7987.250
RAL	Amp Gate Start Near	195.000	usec	34.156	7987.250
RAL	Amp Gate Start Radial	195.000	usec	34.156	7987.250
RAL	Amp Gate Width Far	25.000	usec	34.156	7987.250
RAL	Amp Gate Width Near	25.000	usec	34.156	7987.250
RAL	Amp Gate Width Radial	25.000	usec	34.156	7987.250
RAL	casing od	4.500	inches	34.156	7987.250
RAL	casing wt	11.600	lbm/ft	34.156	7987.250
RAL	FB Start Far	291.900	usec	34.156	7987.250
RAL	FB Start Near	175.391	usec	34.156	7987.250
RAL	FB Start Radial	175.391	usec	34.156	7987.250
RAL	FB Thresh Far	4.000	mV	34.156	7987.250
RAL	FB Thresh Near	4.000	mV	34.156	7987.250
RAL	FB Thresh Radial	4.000	mV	34.156	7987.250
RAL	Fluid Travel Time	200.000	usec/ft	34.156	7985.843

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

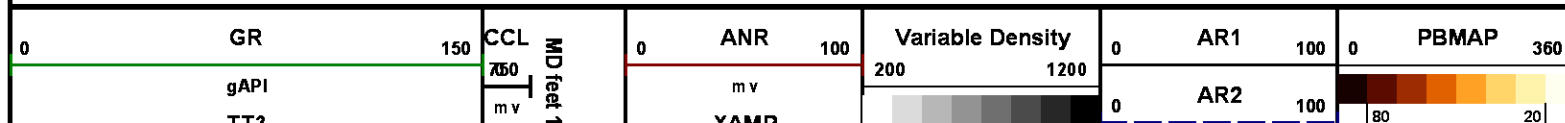
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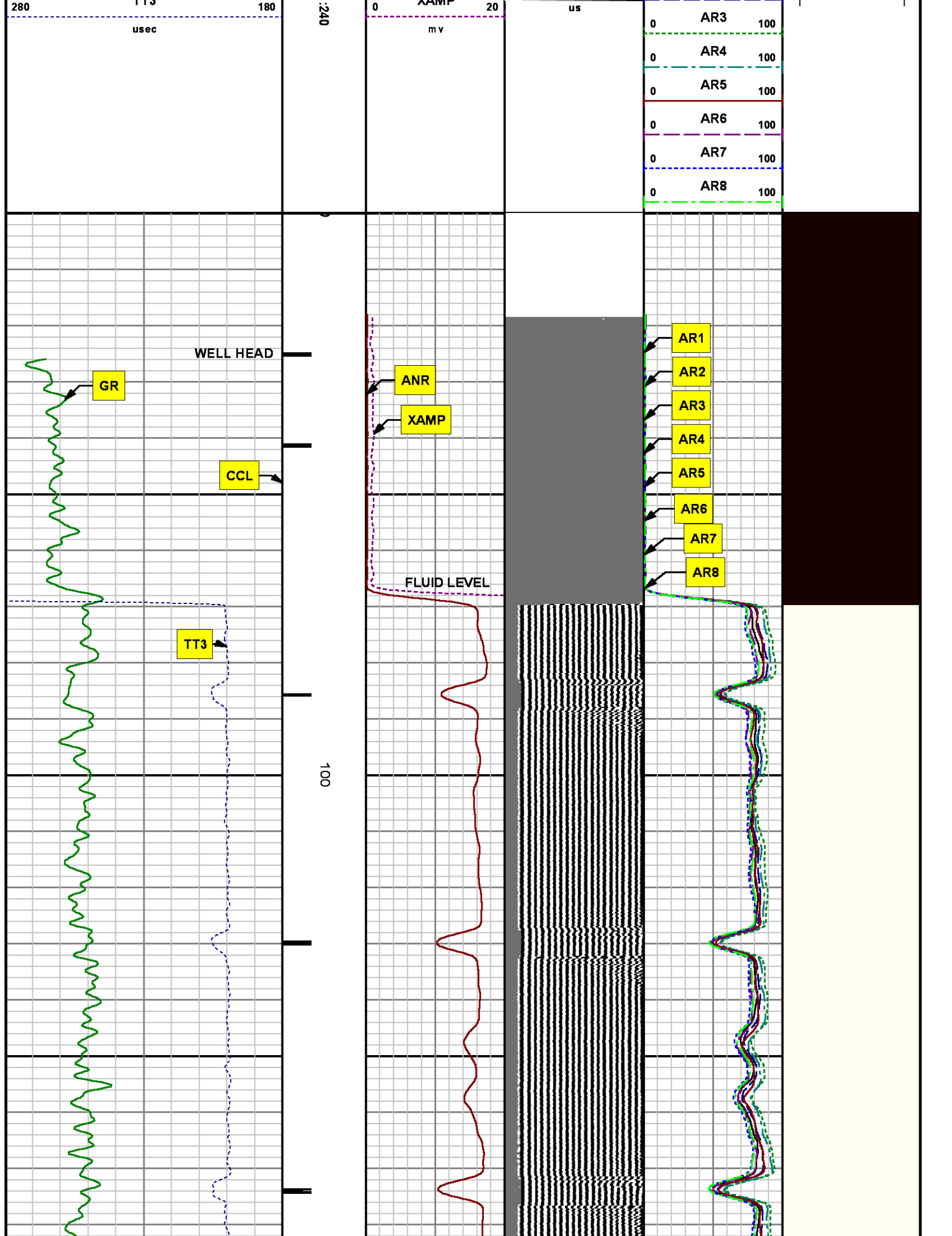
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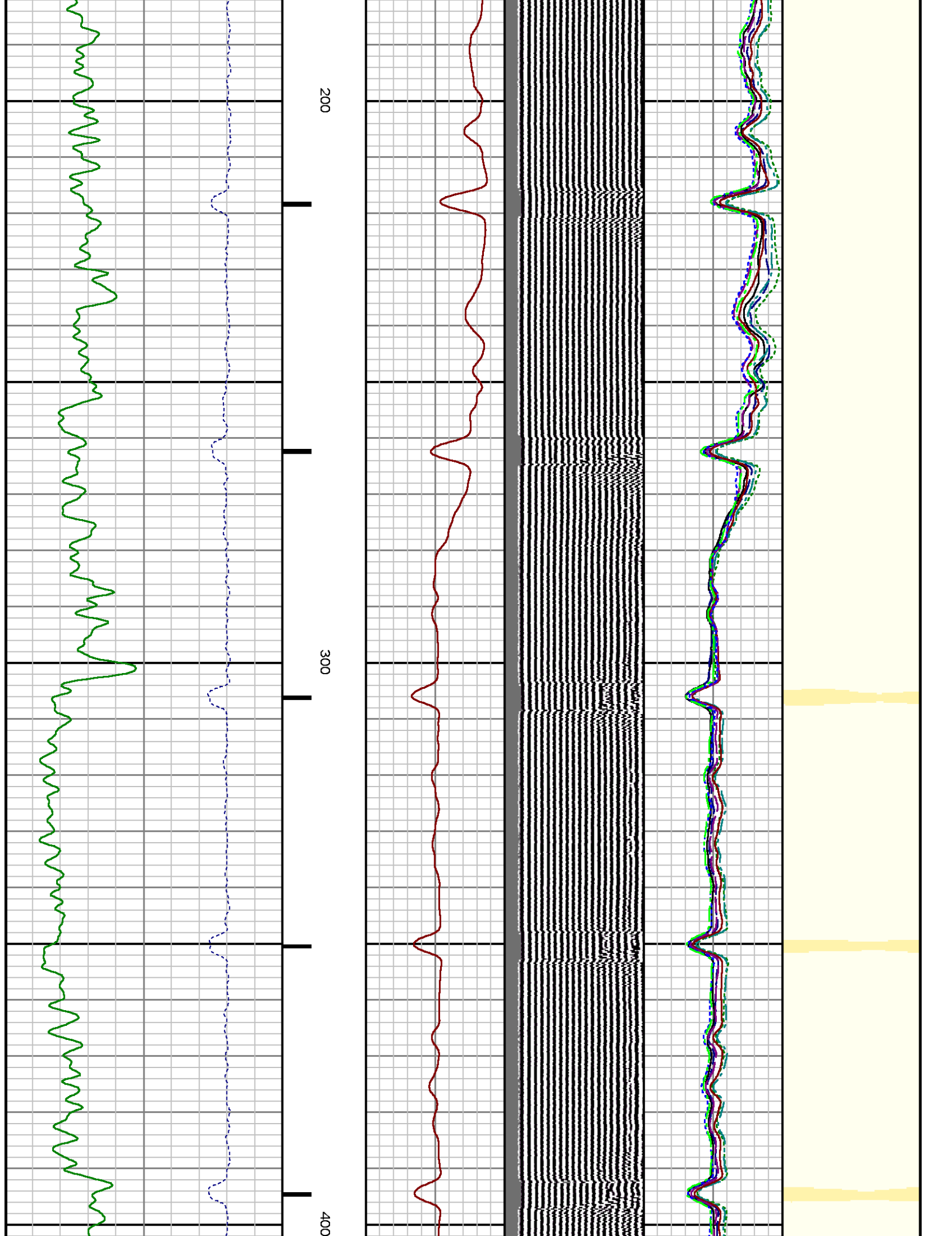
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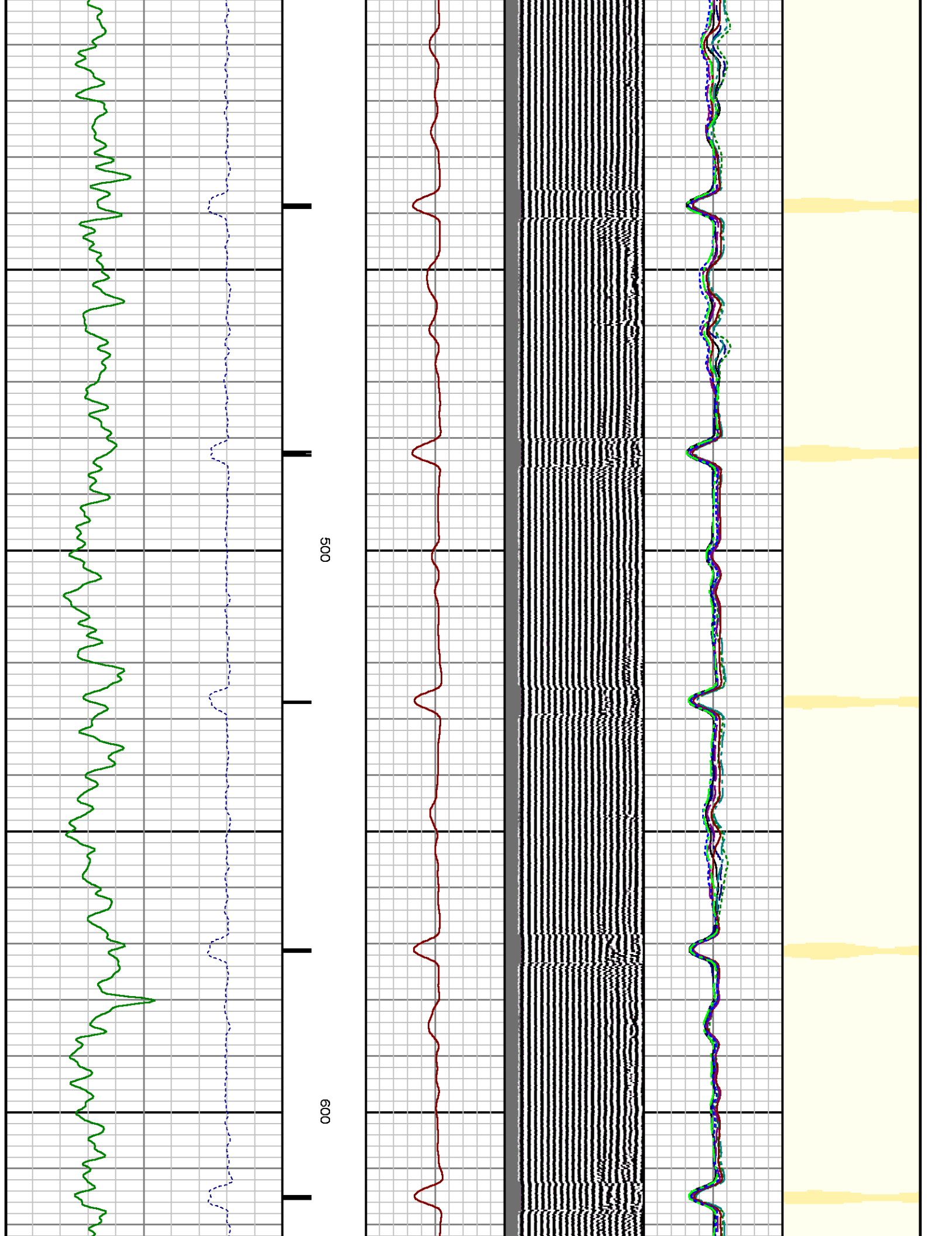
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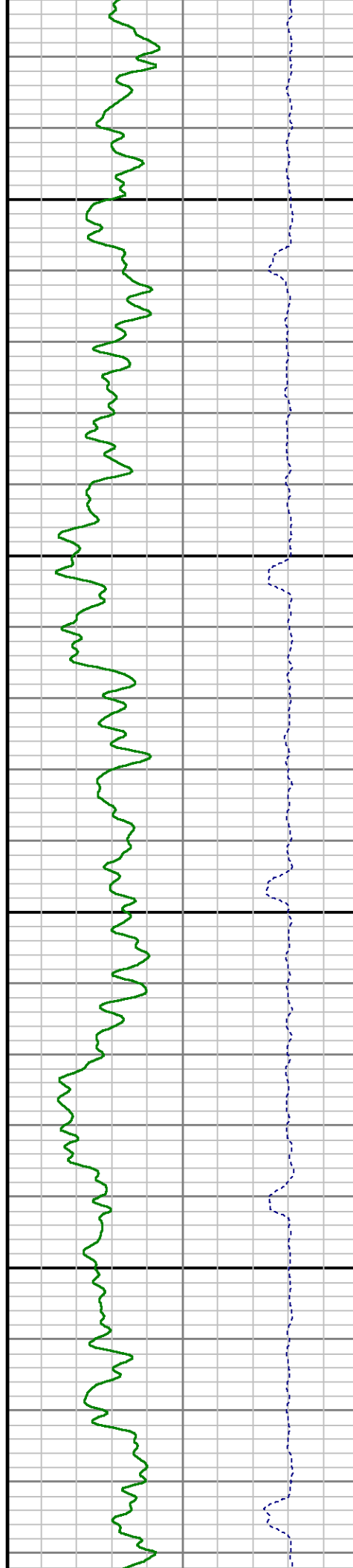
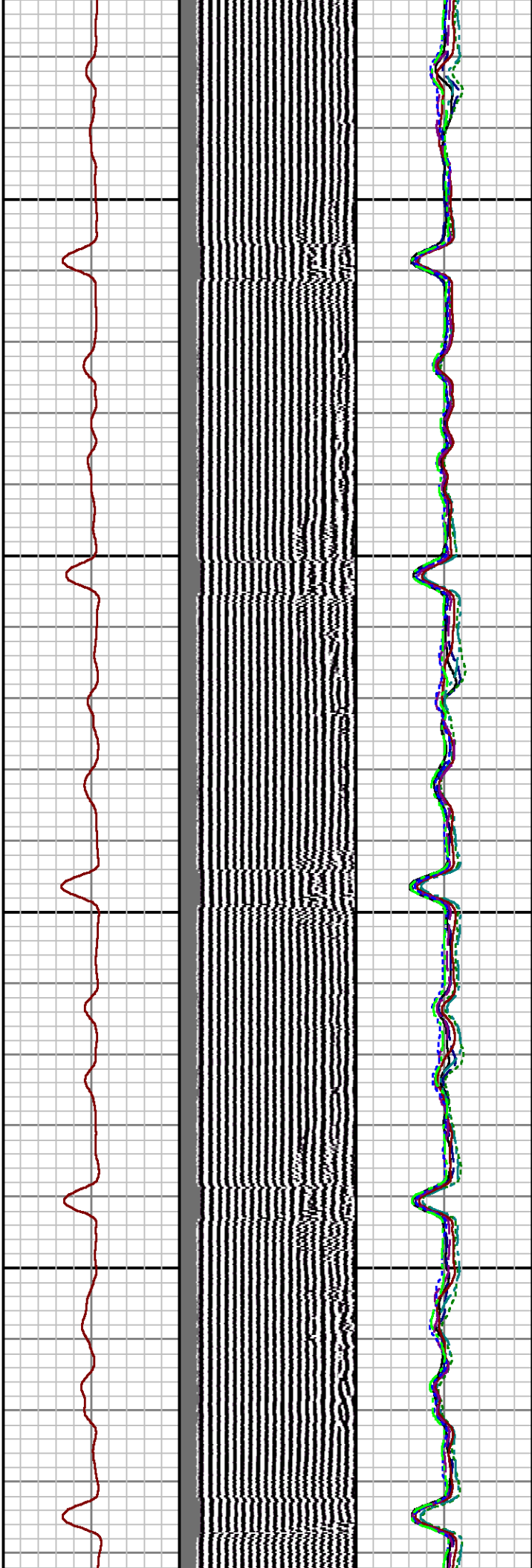
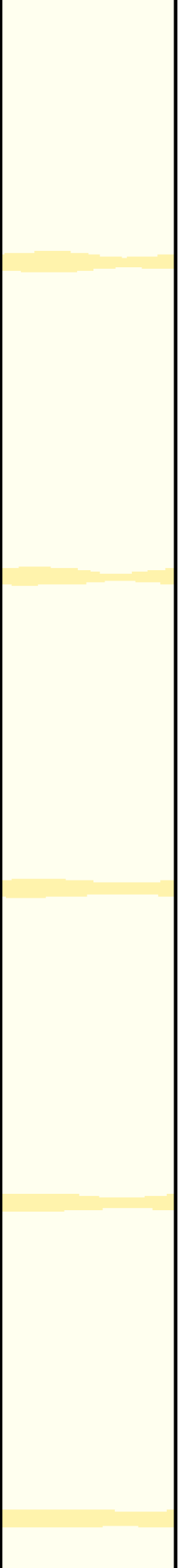
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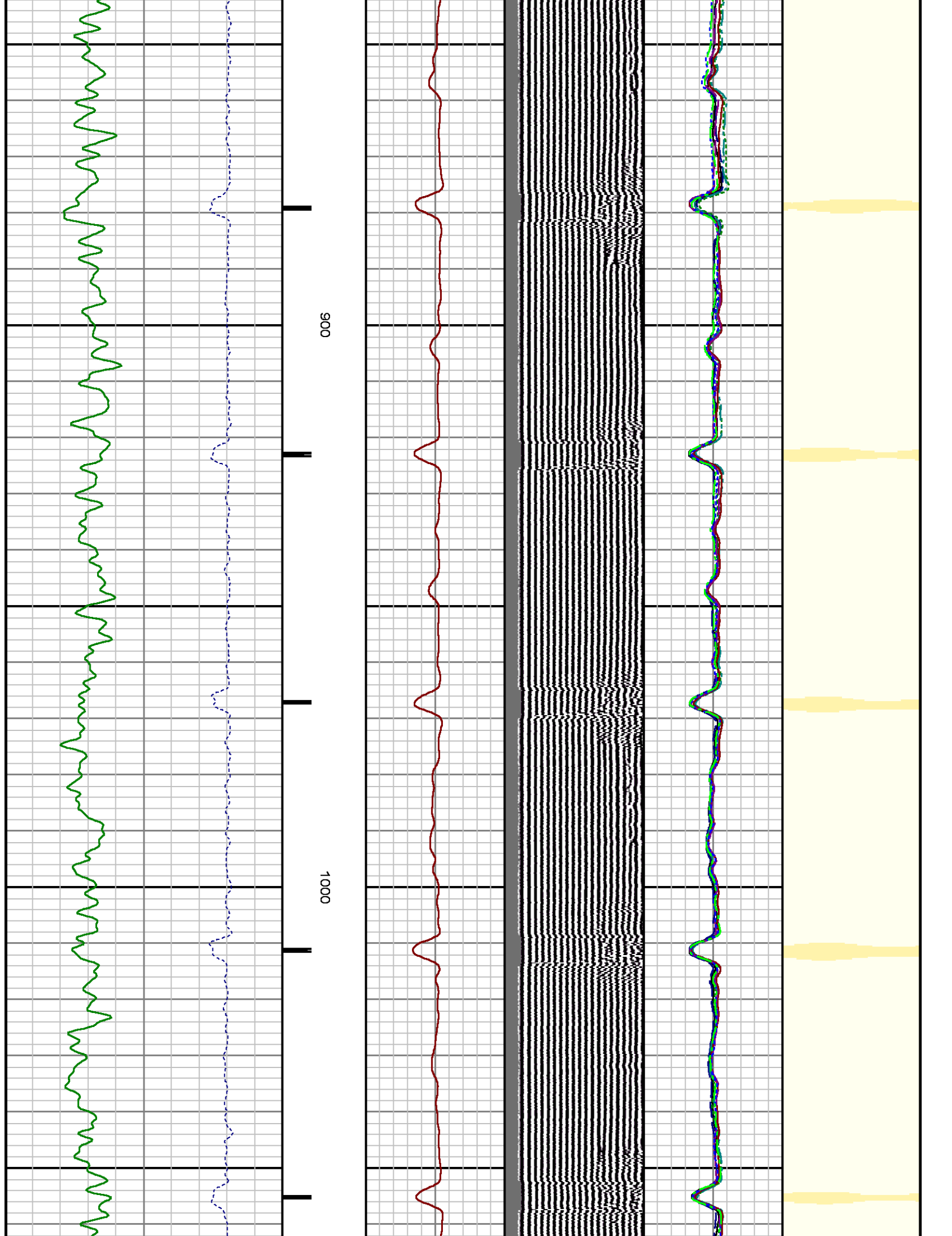


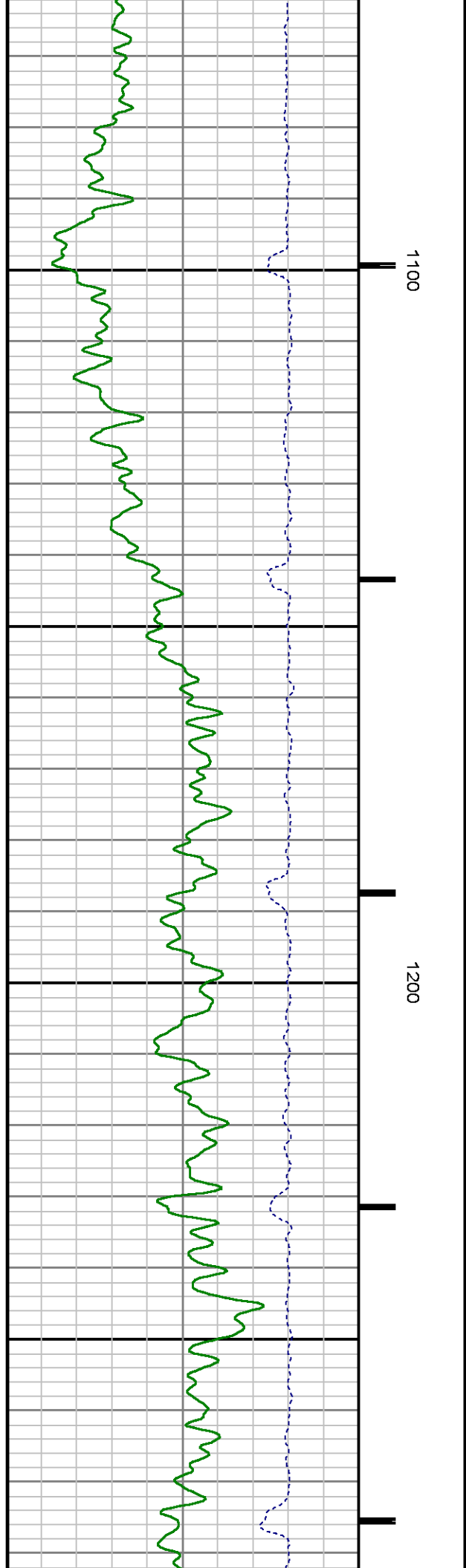
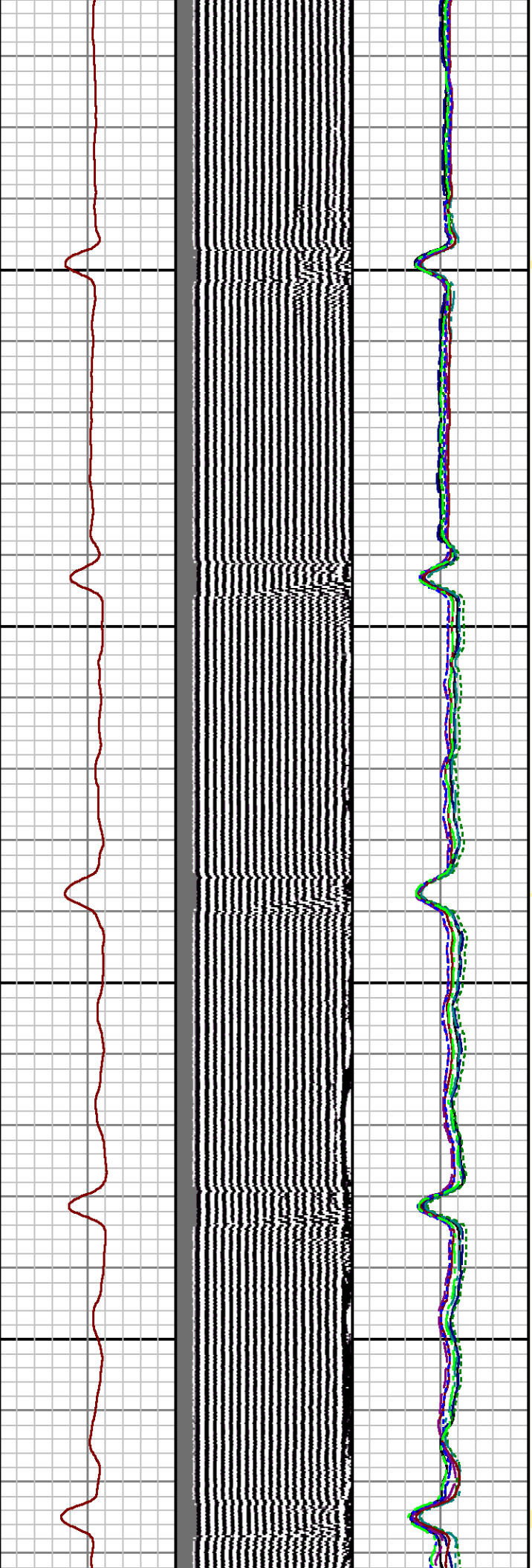


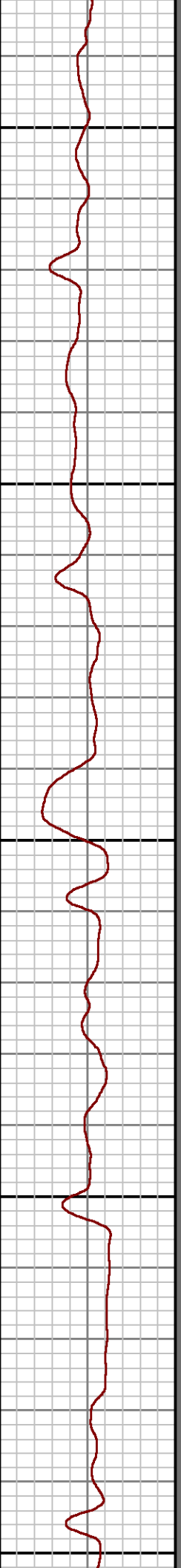
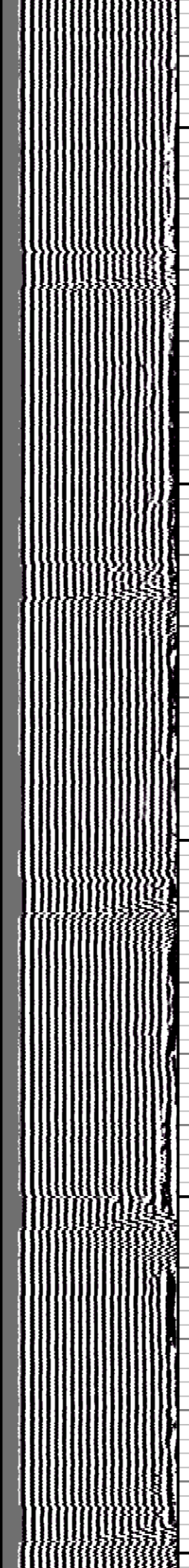
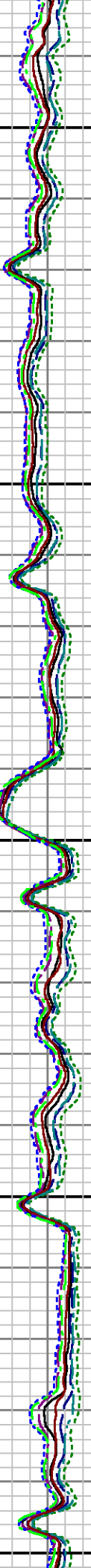








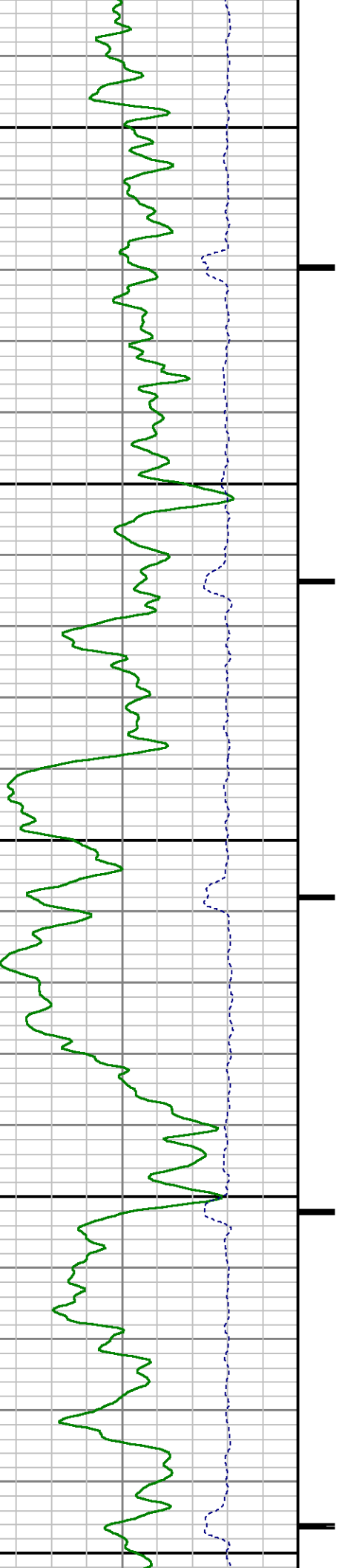


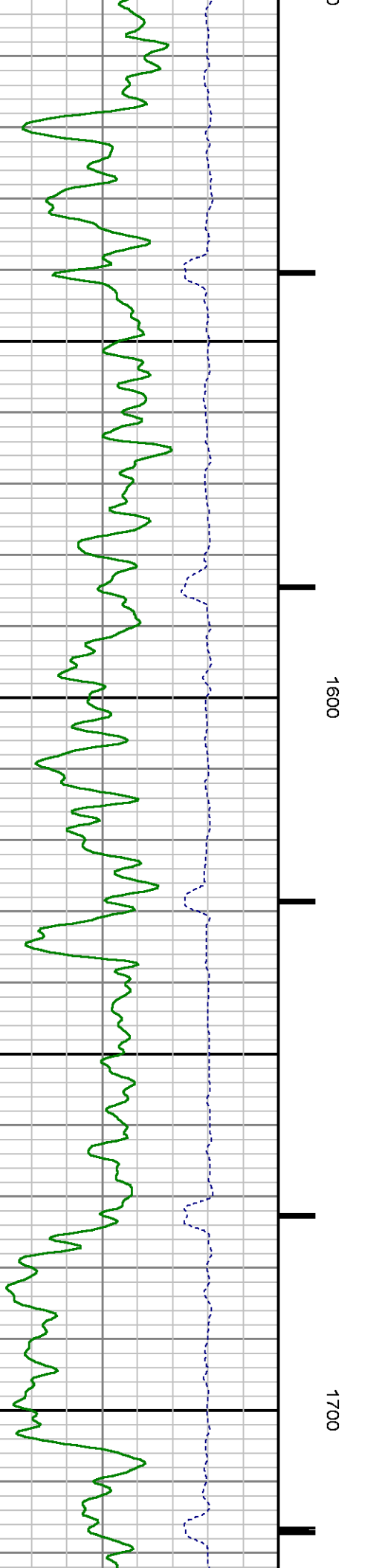
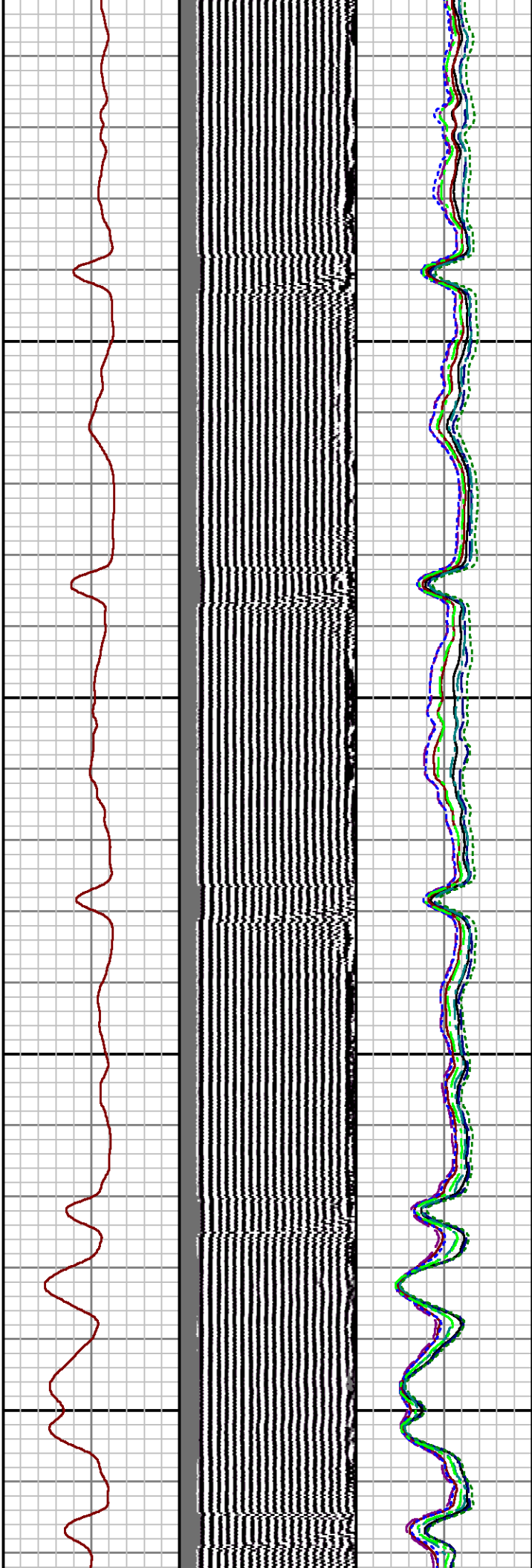
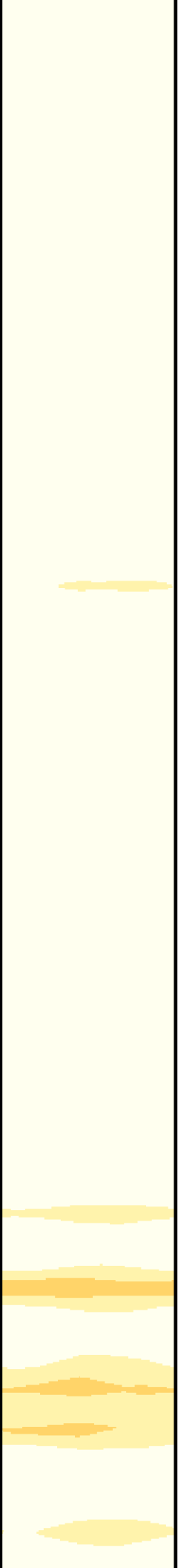


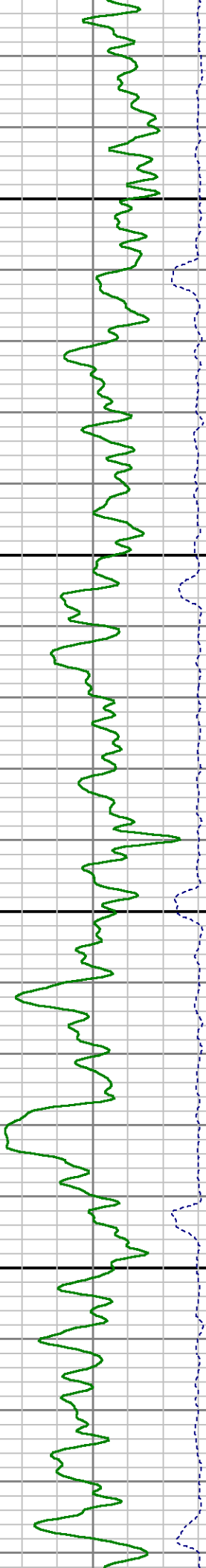
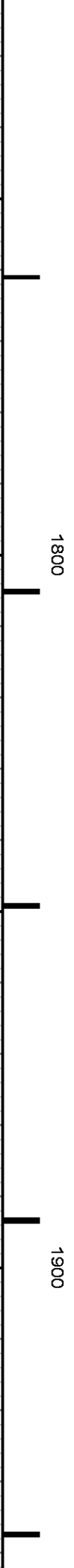
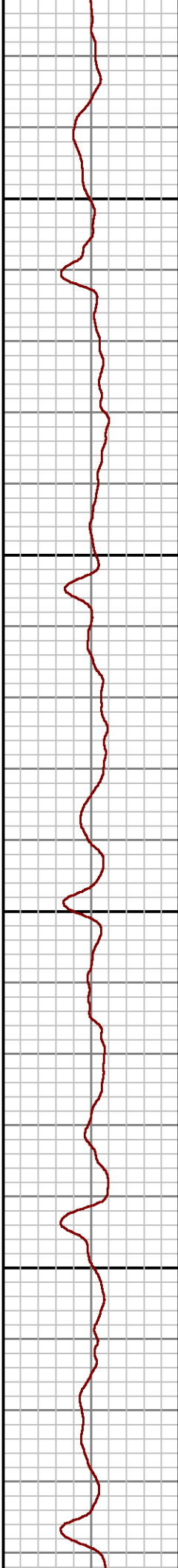
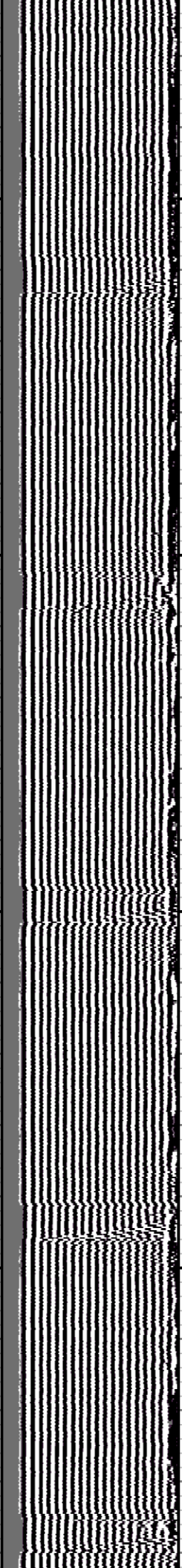
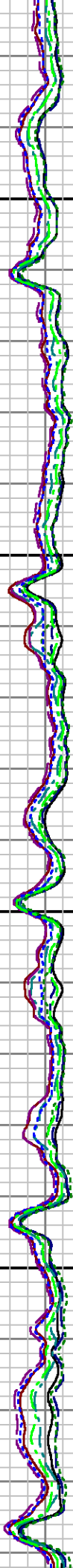
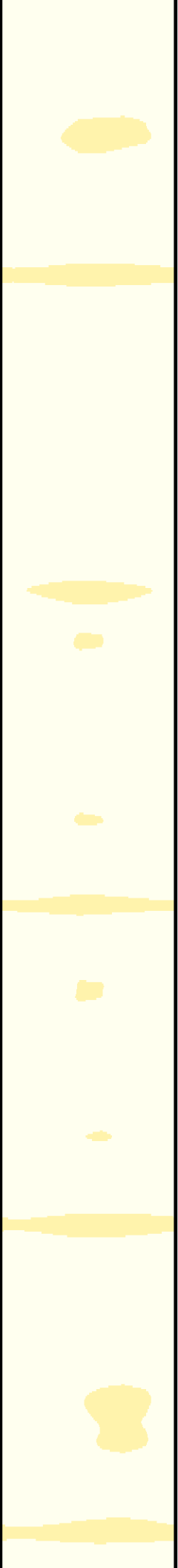
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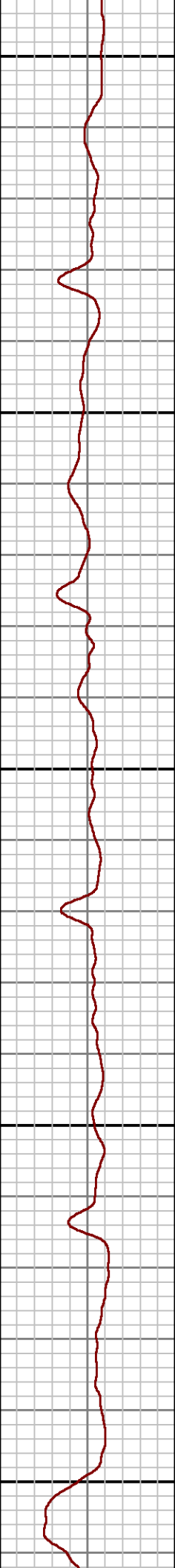
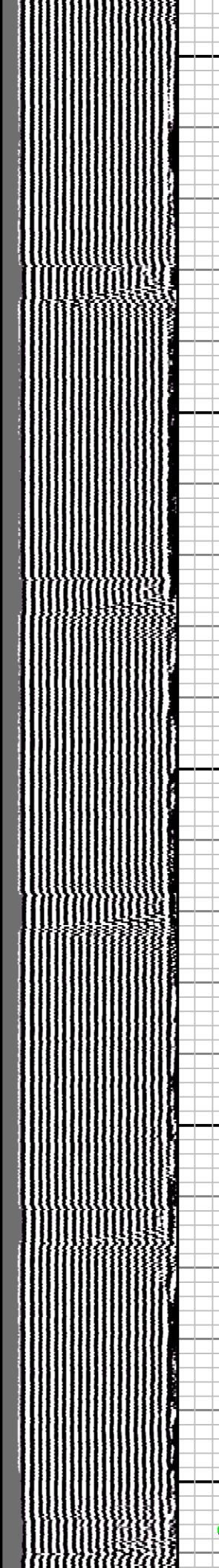
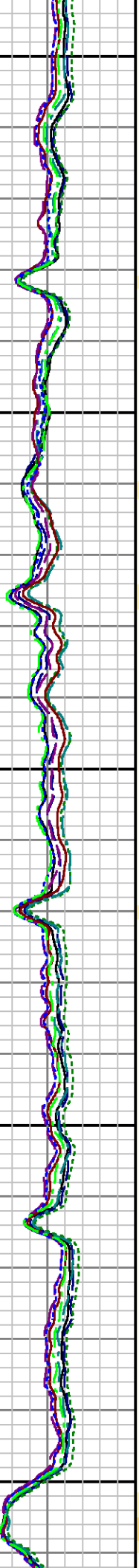
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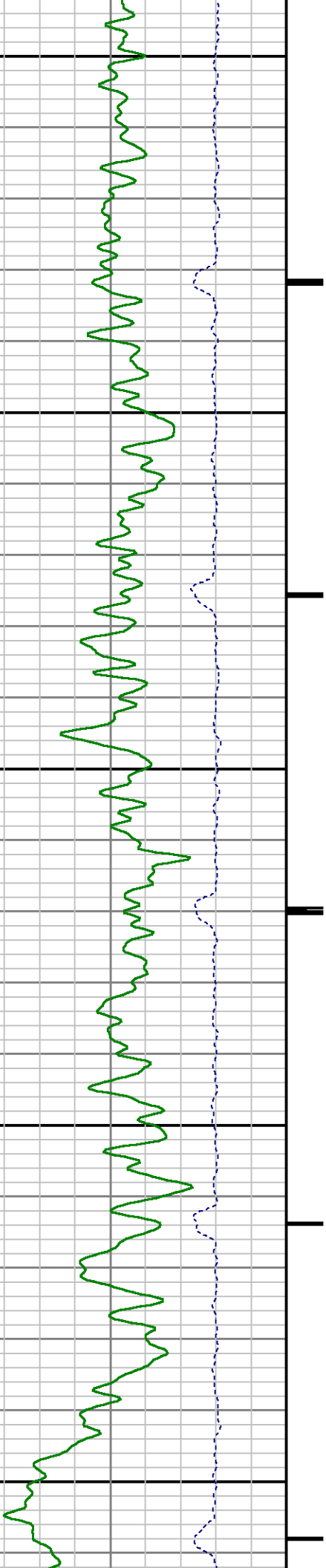


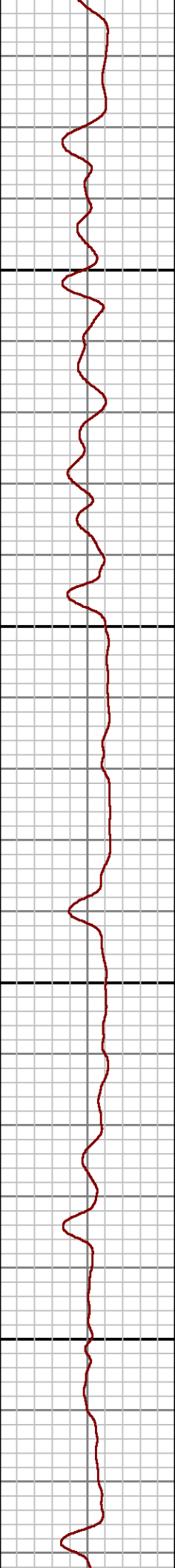
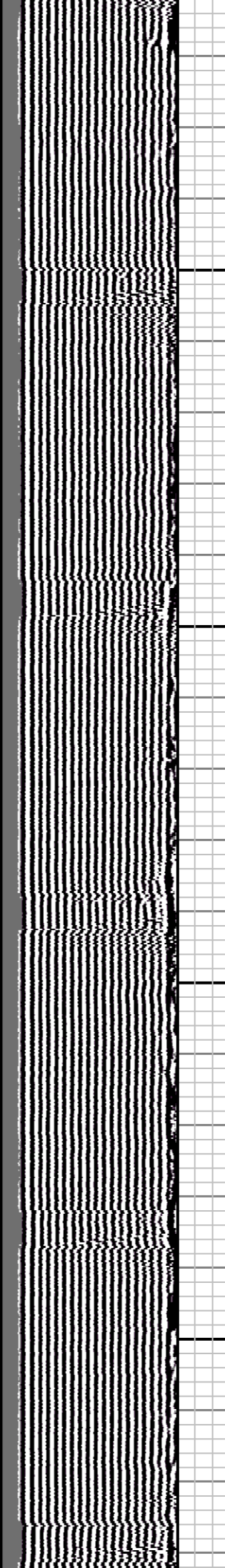
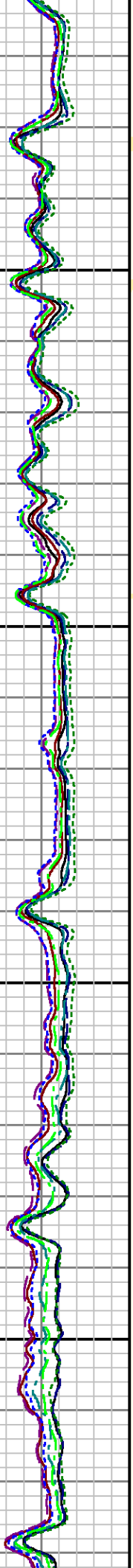




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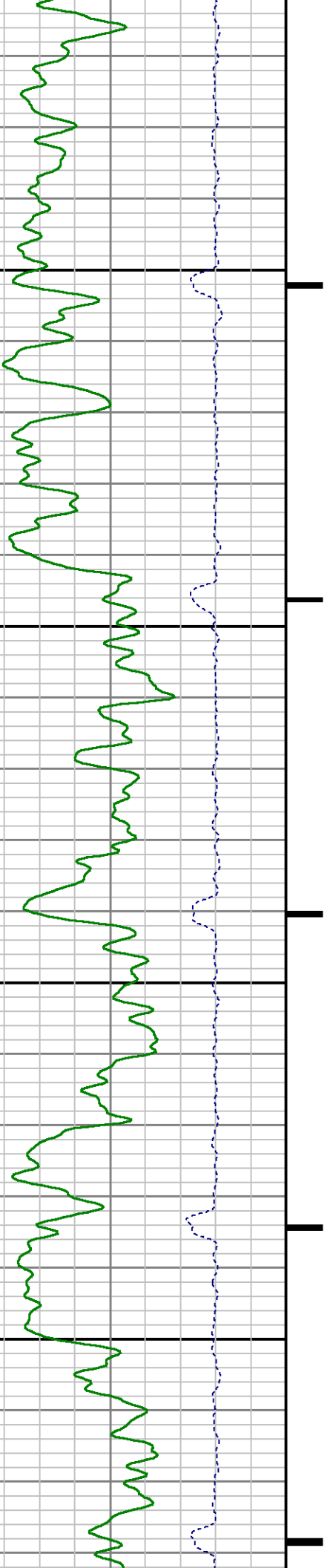
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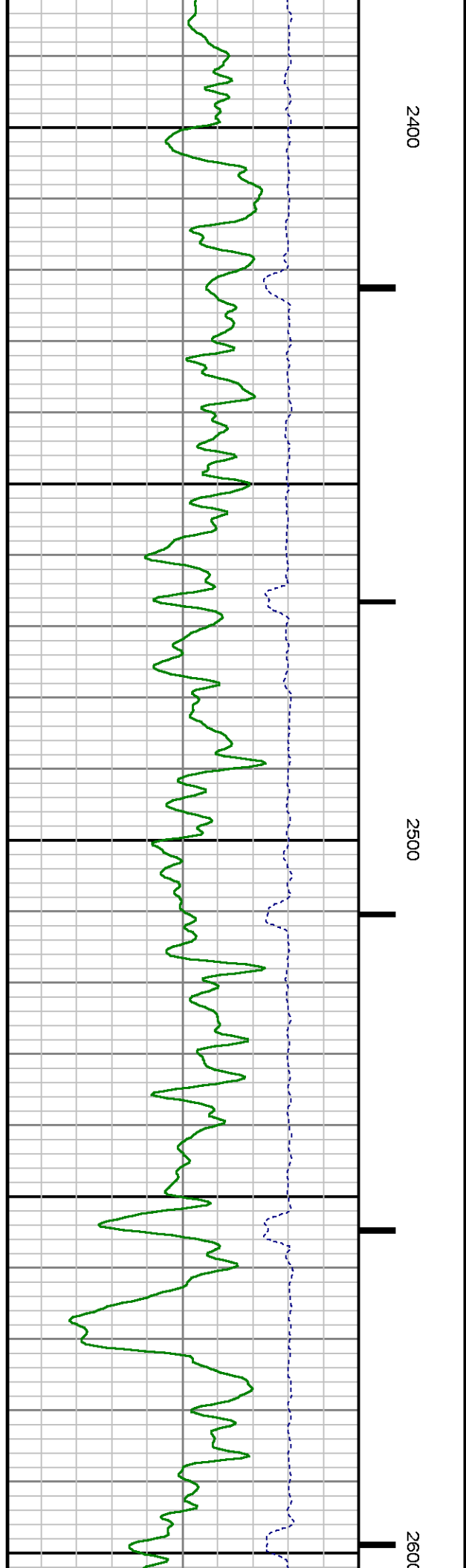
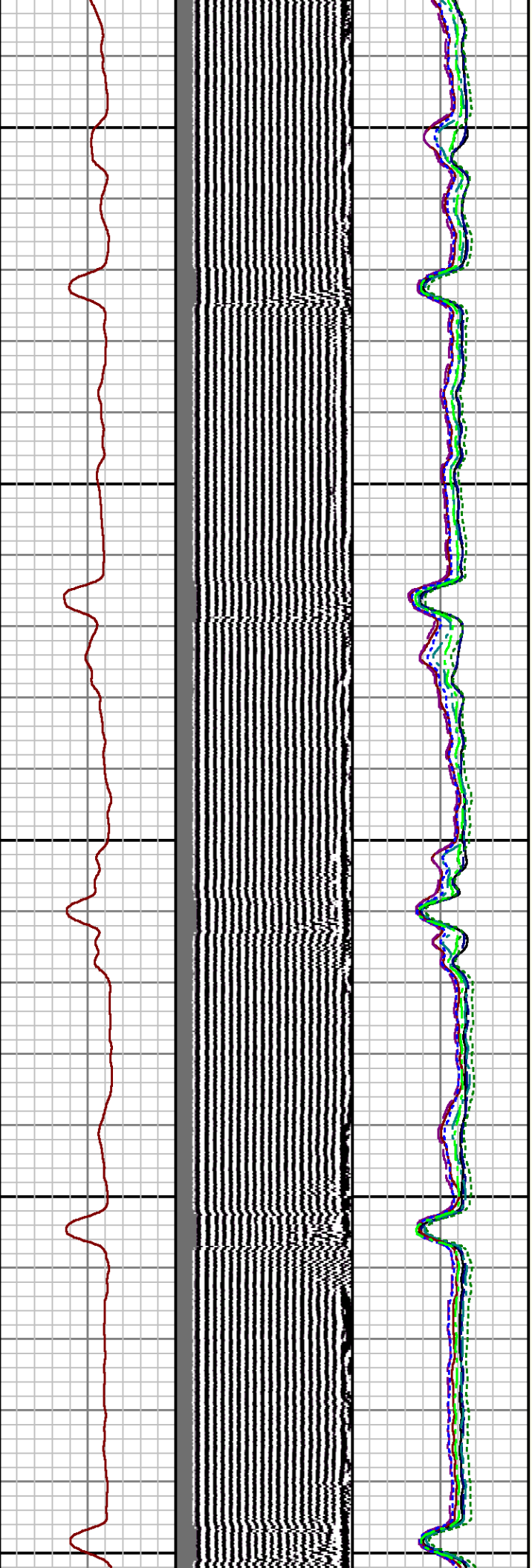
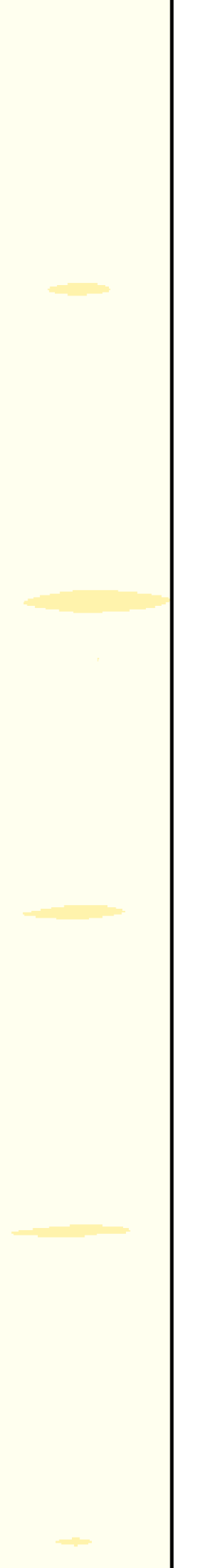


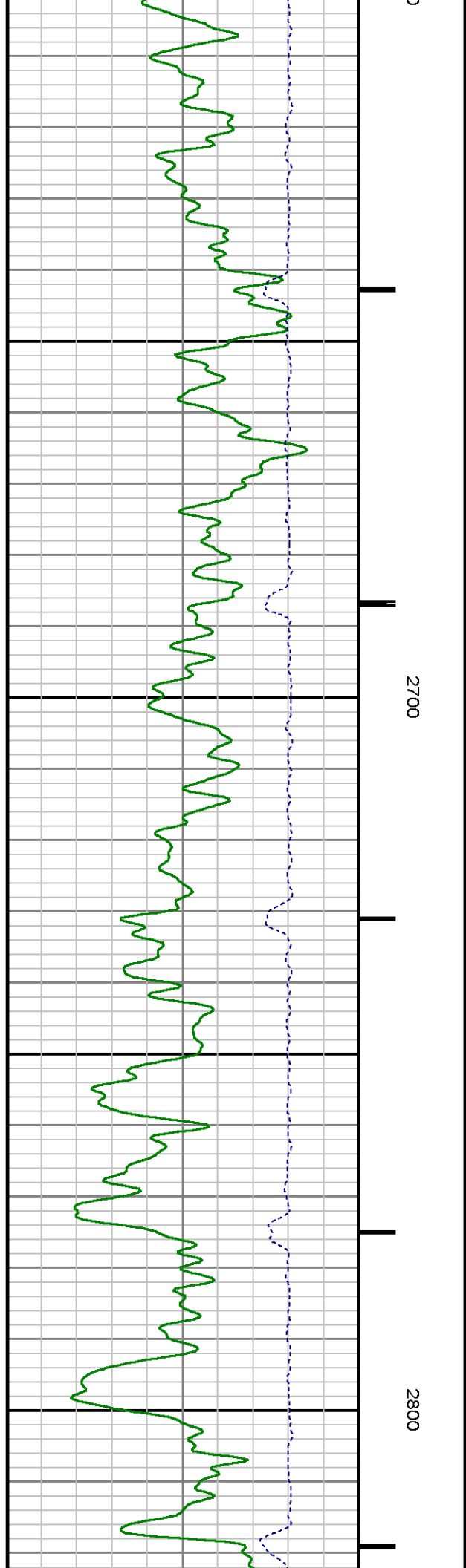
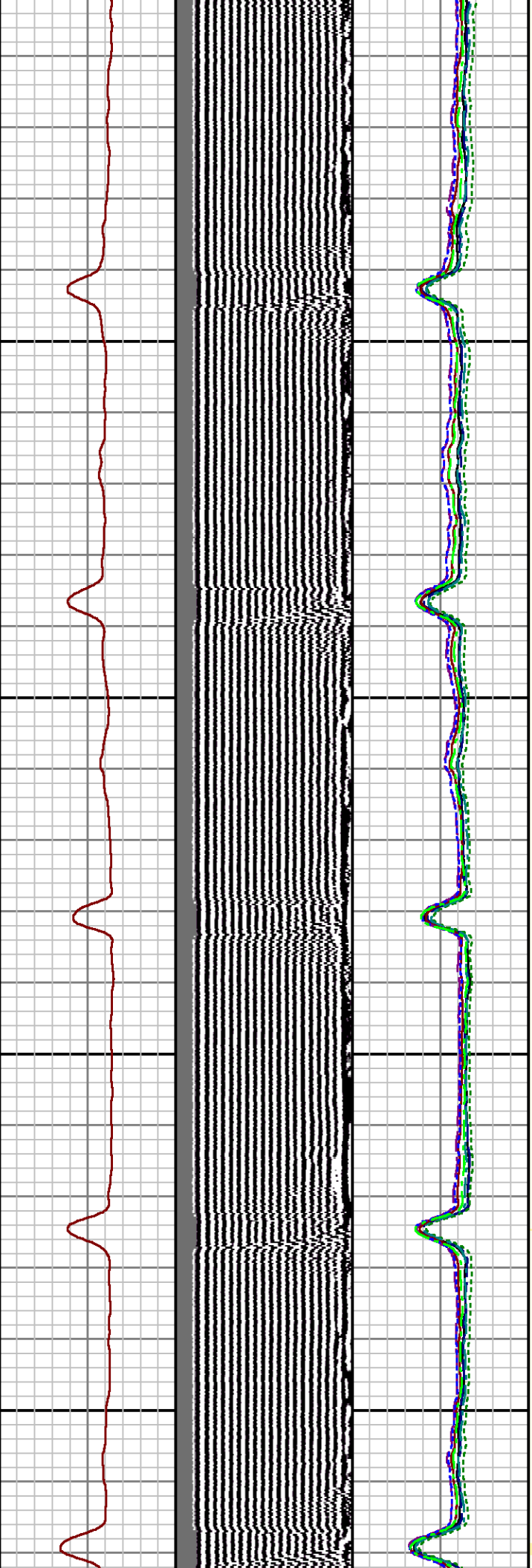
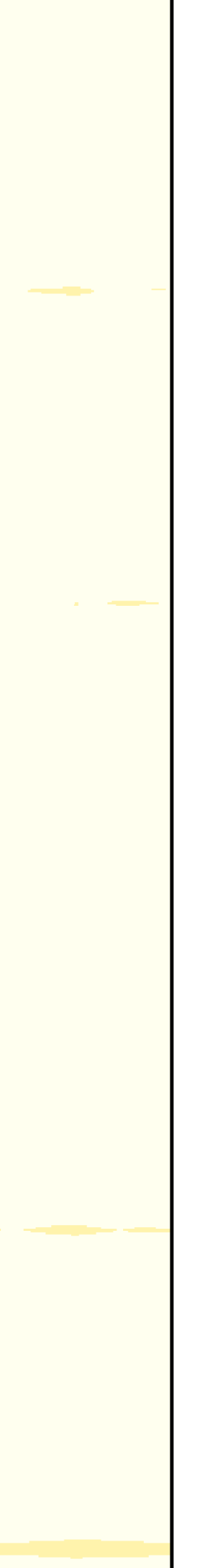


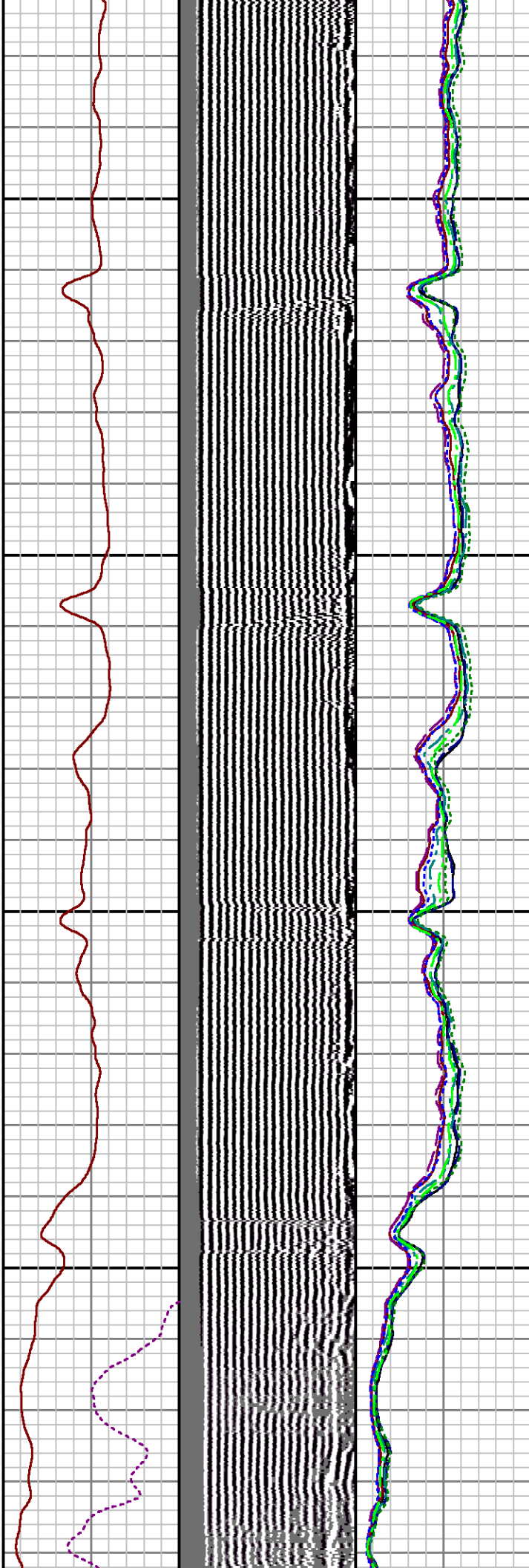
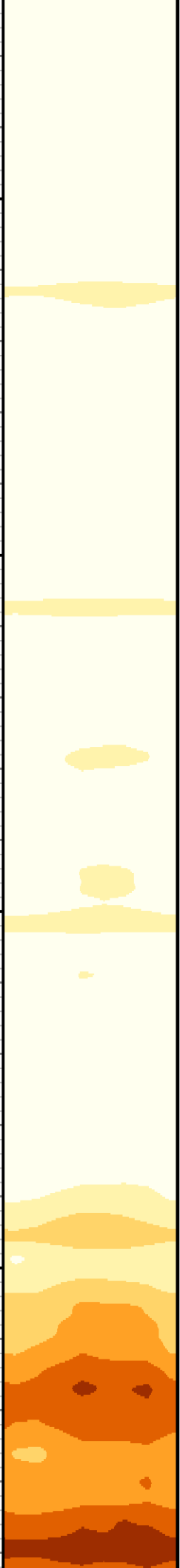
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2300



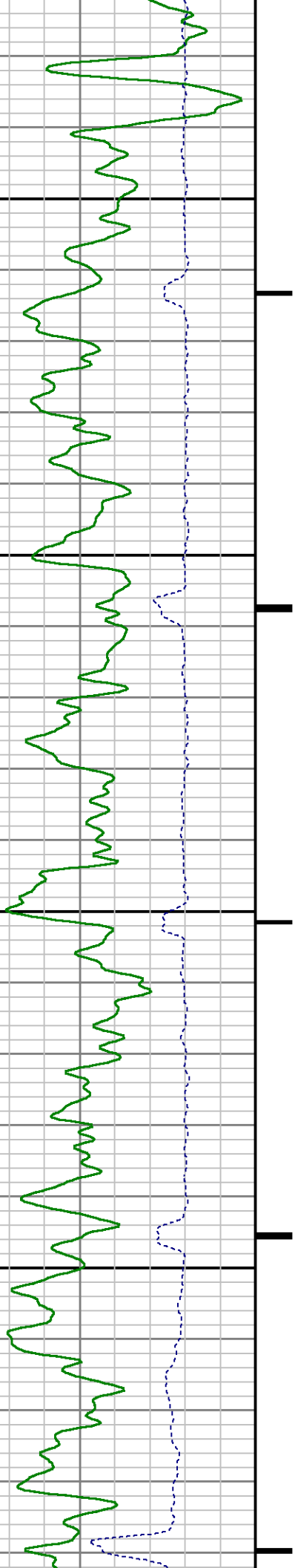


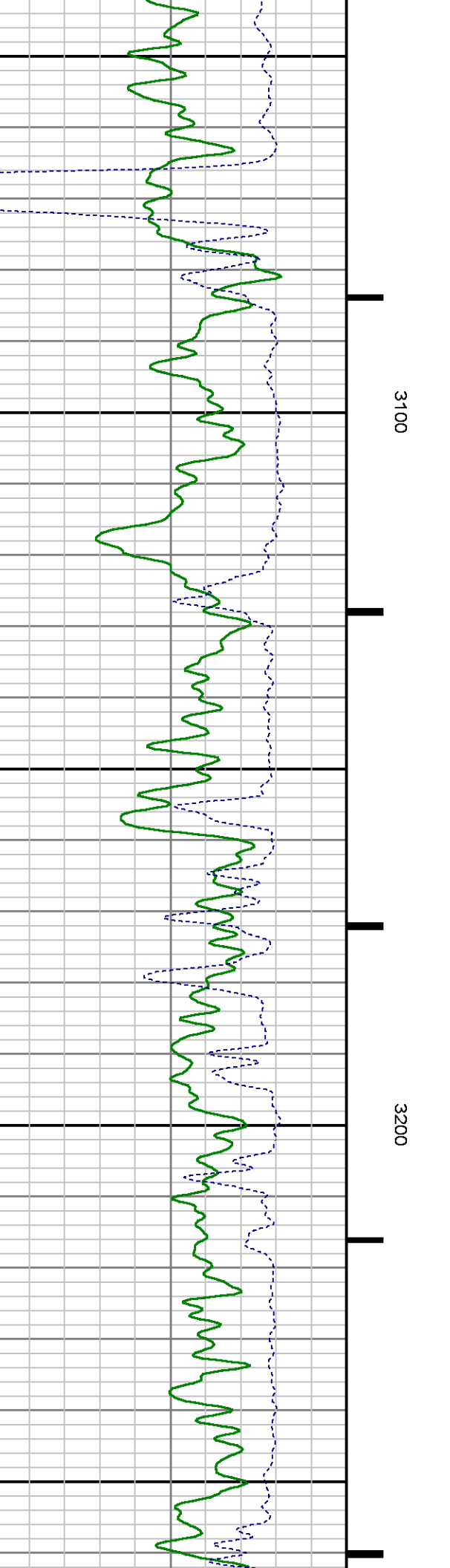
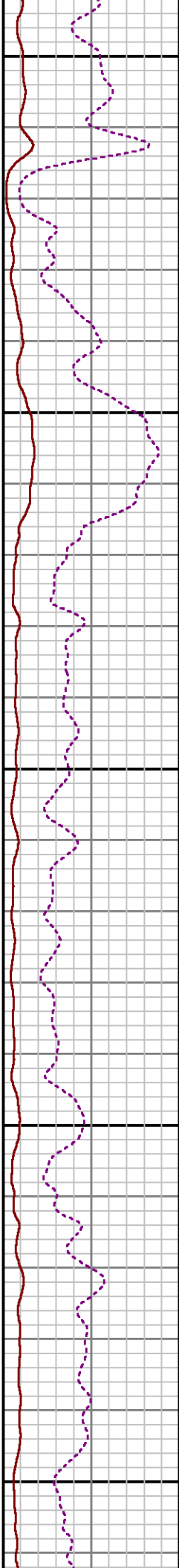
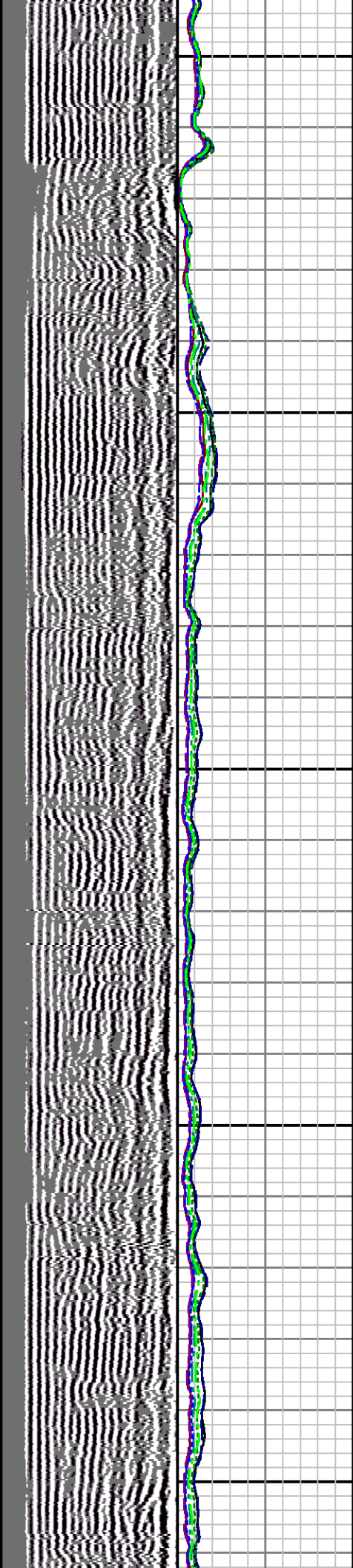
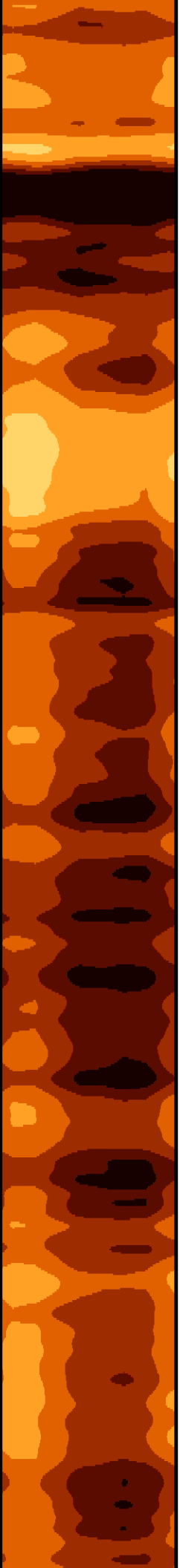


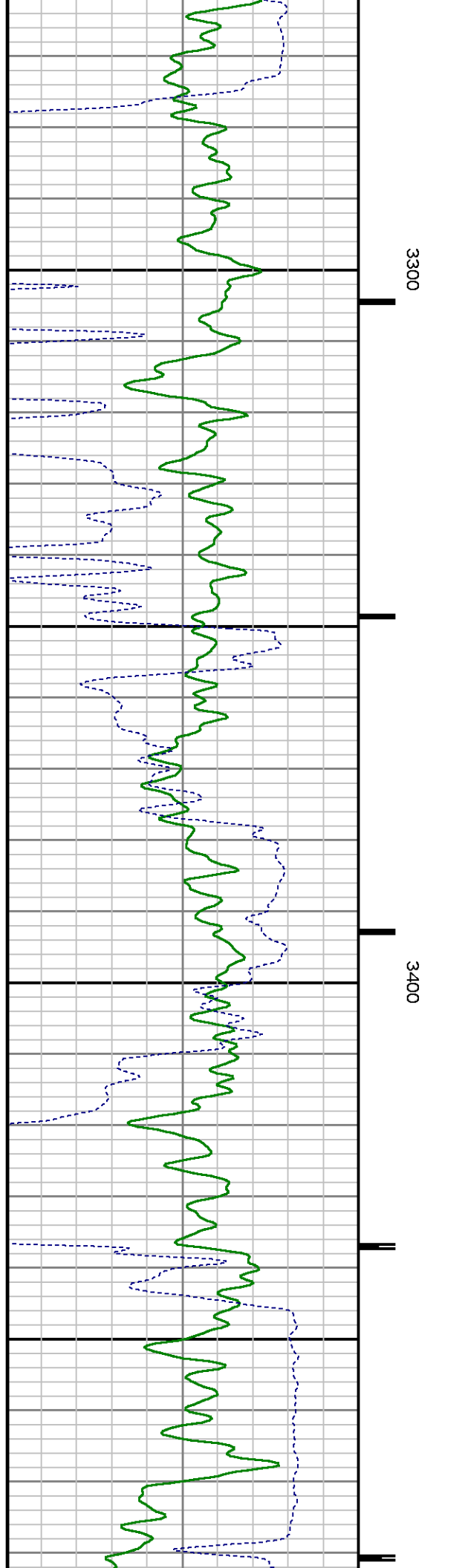
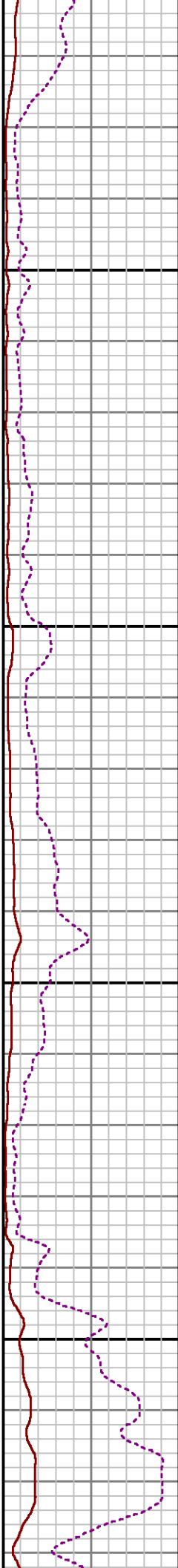
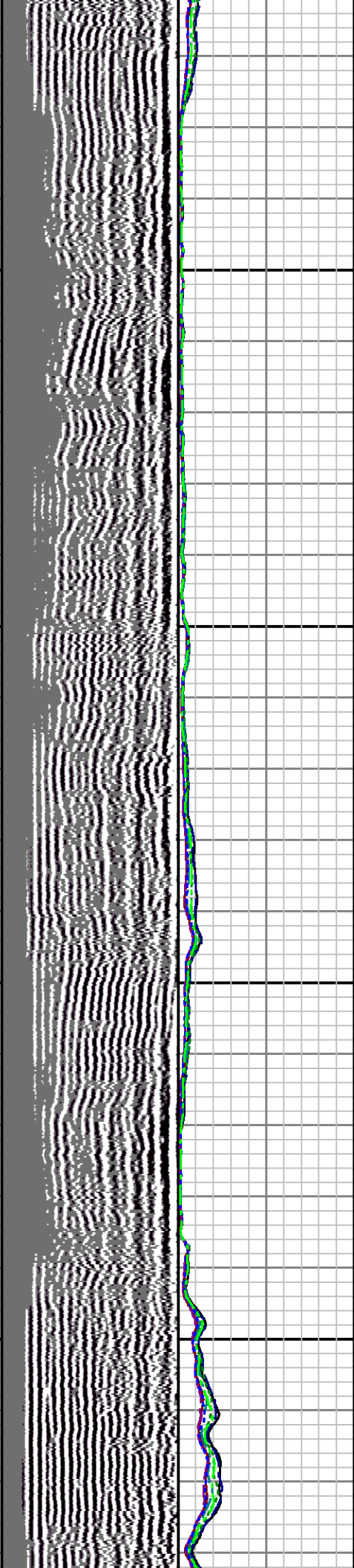


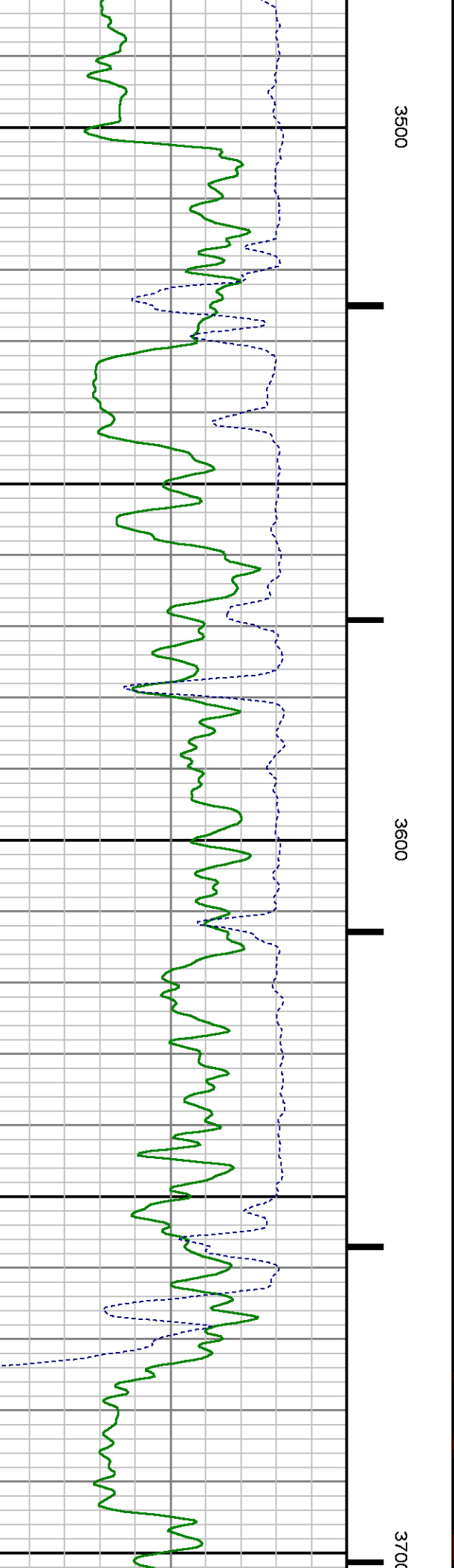
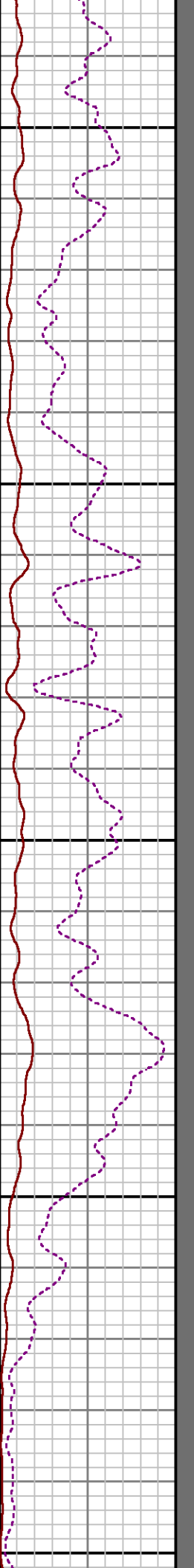
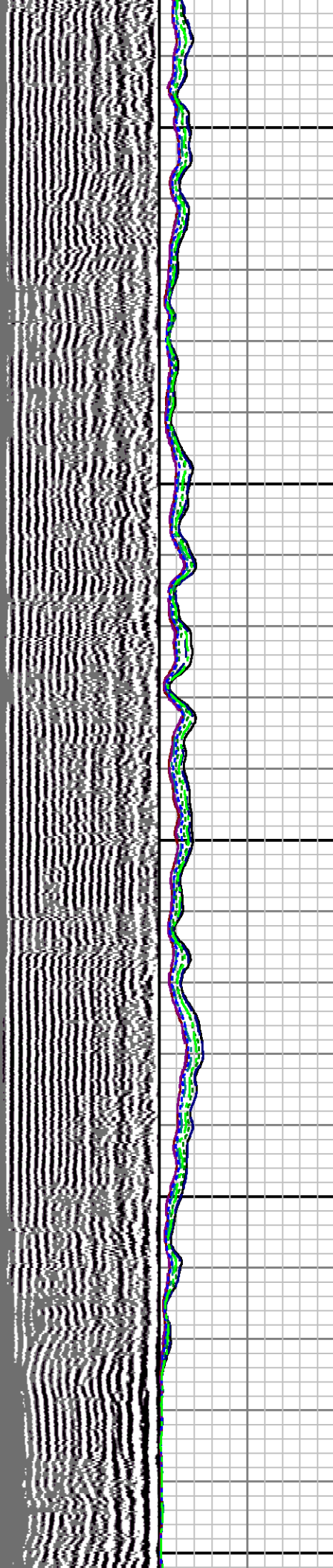
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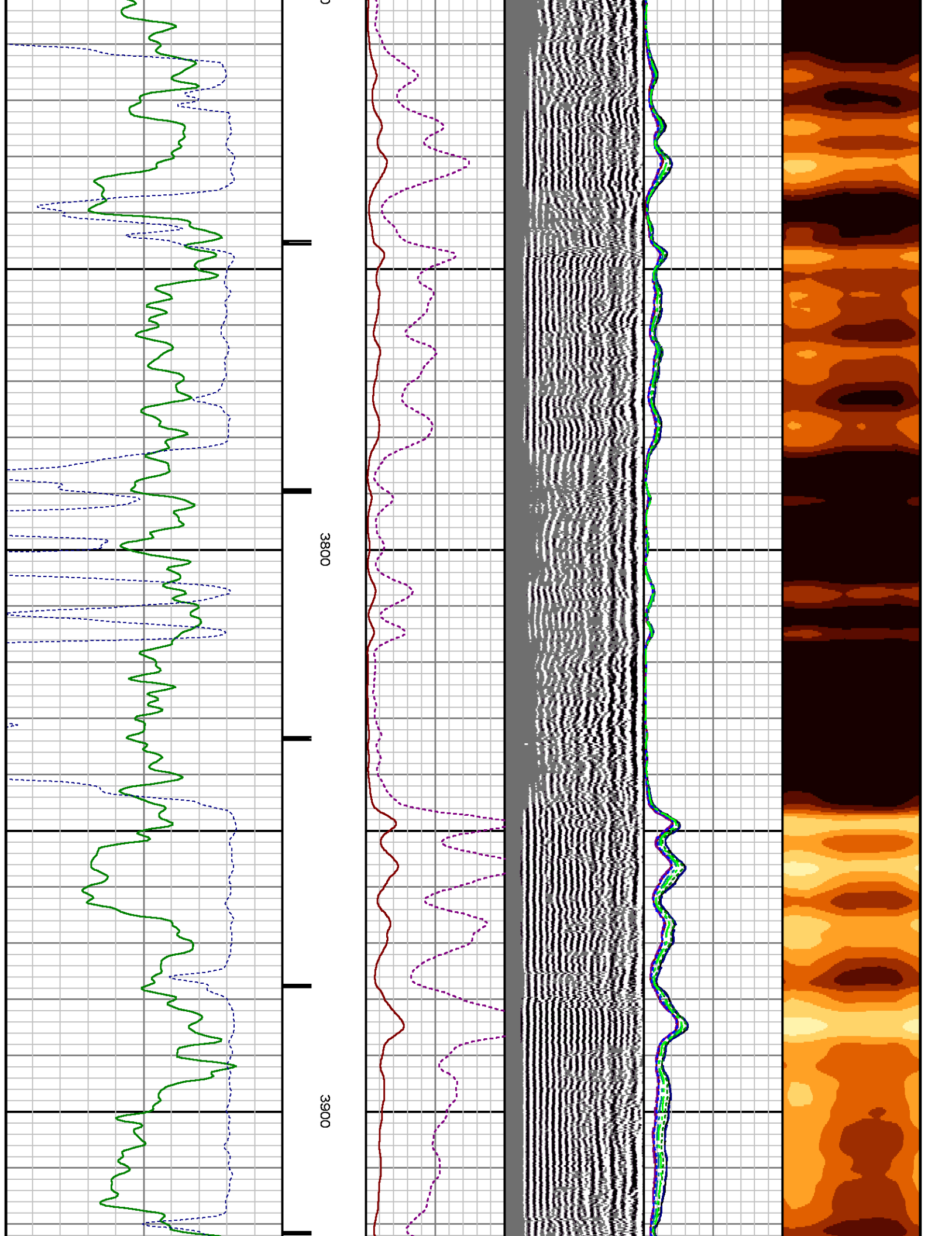
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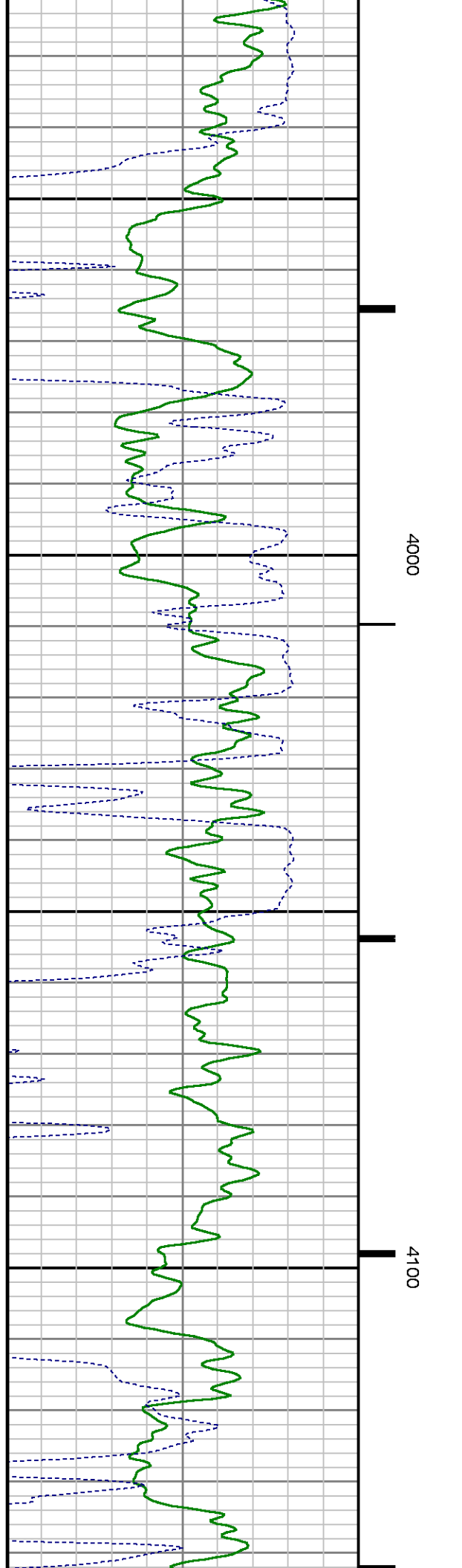
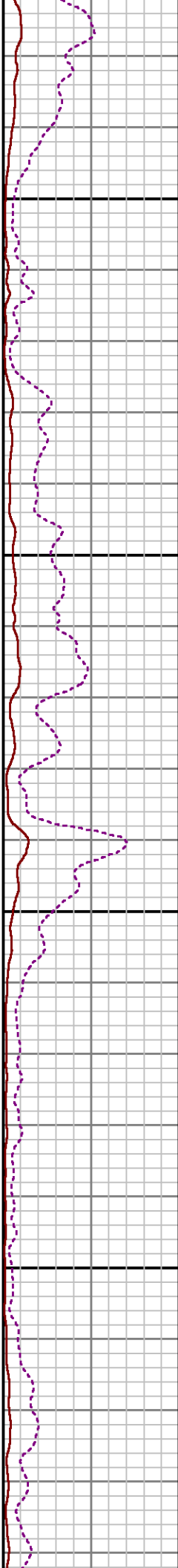
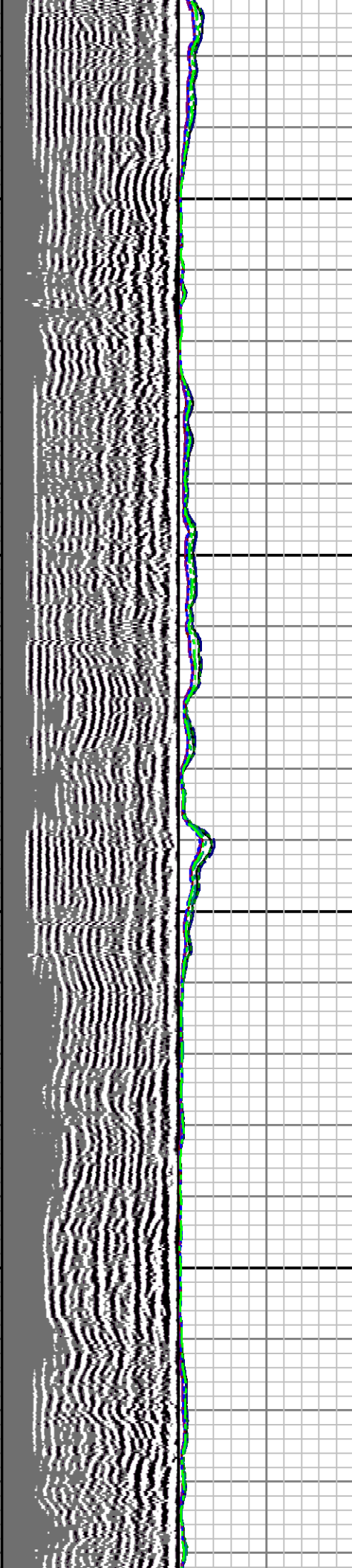


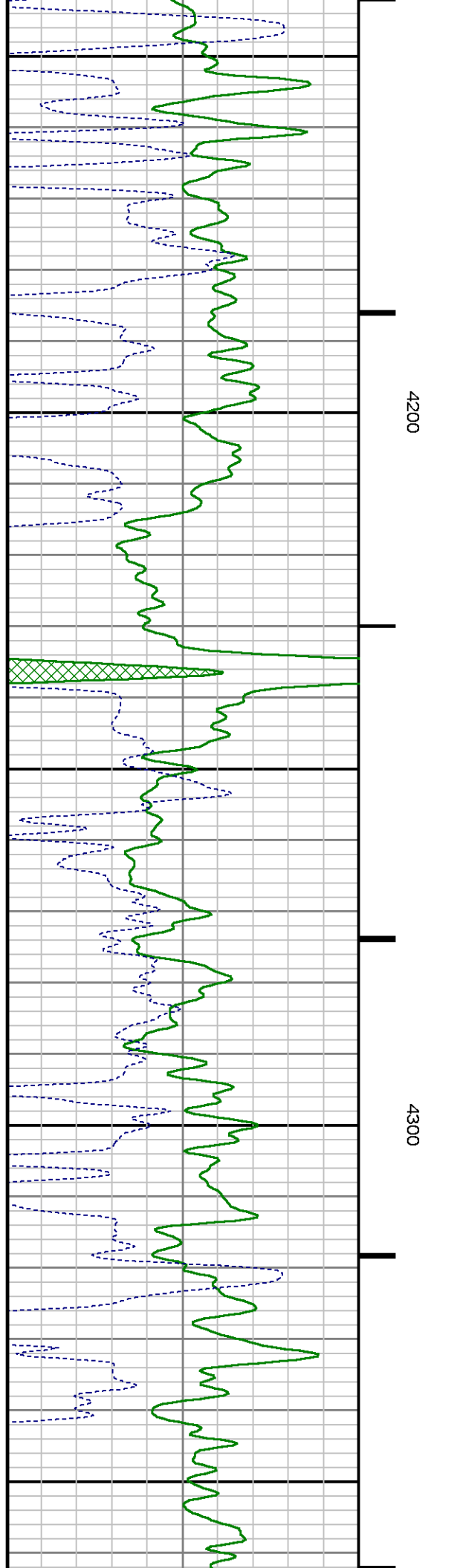
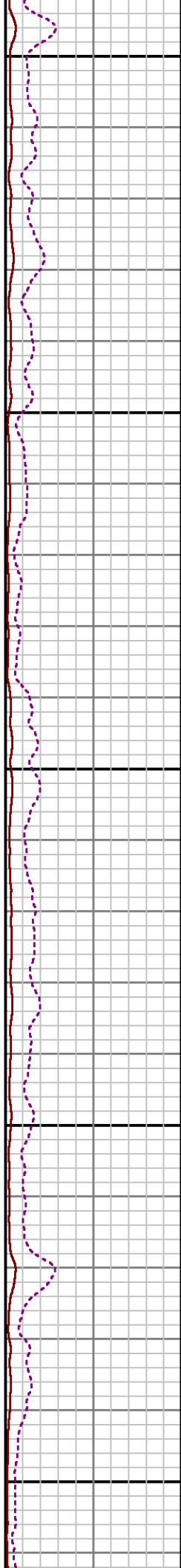
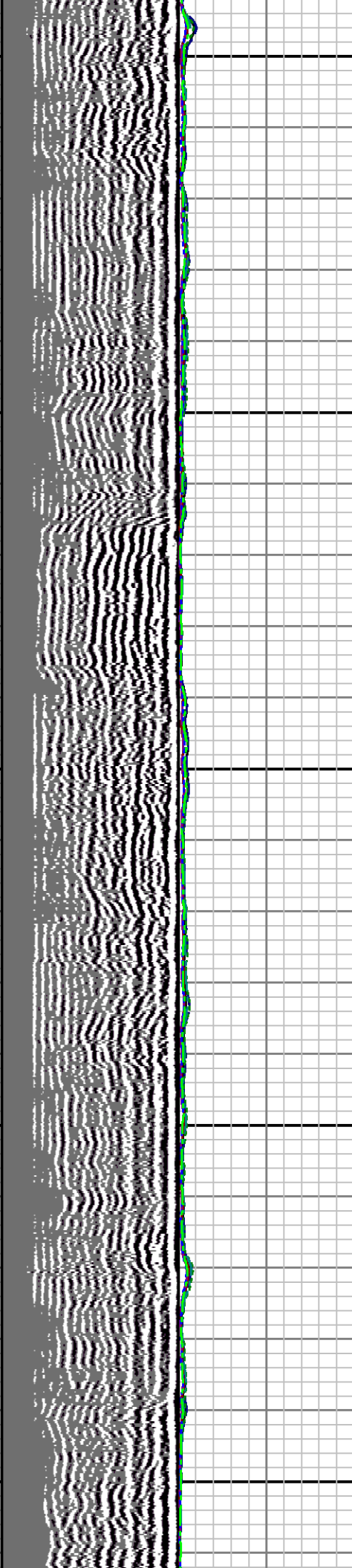
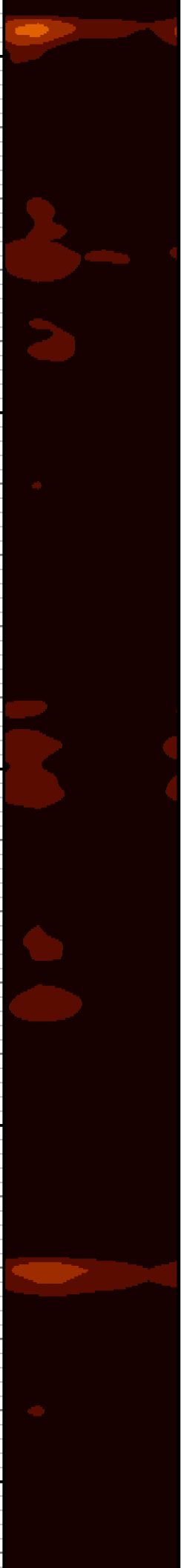


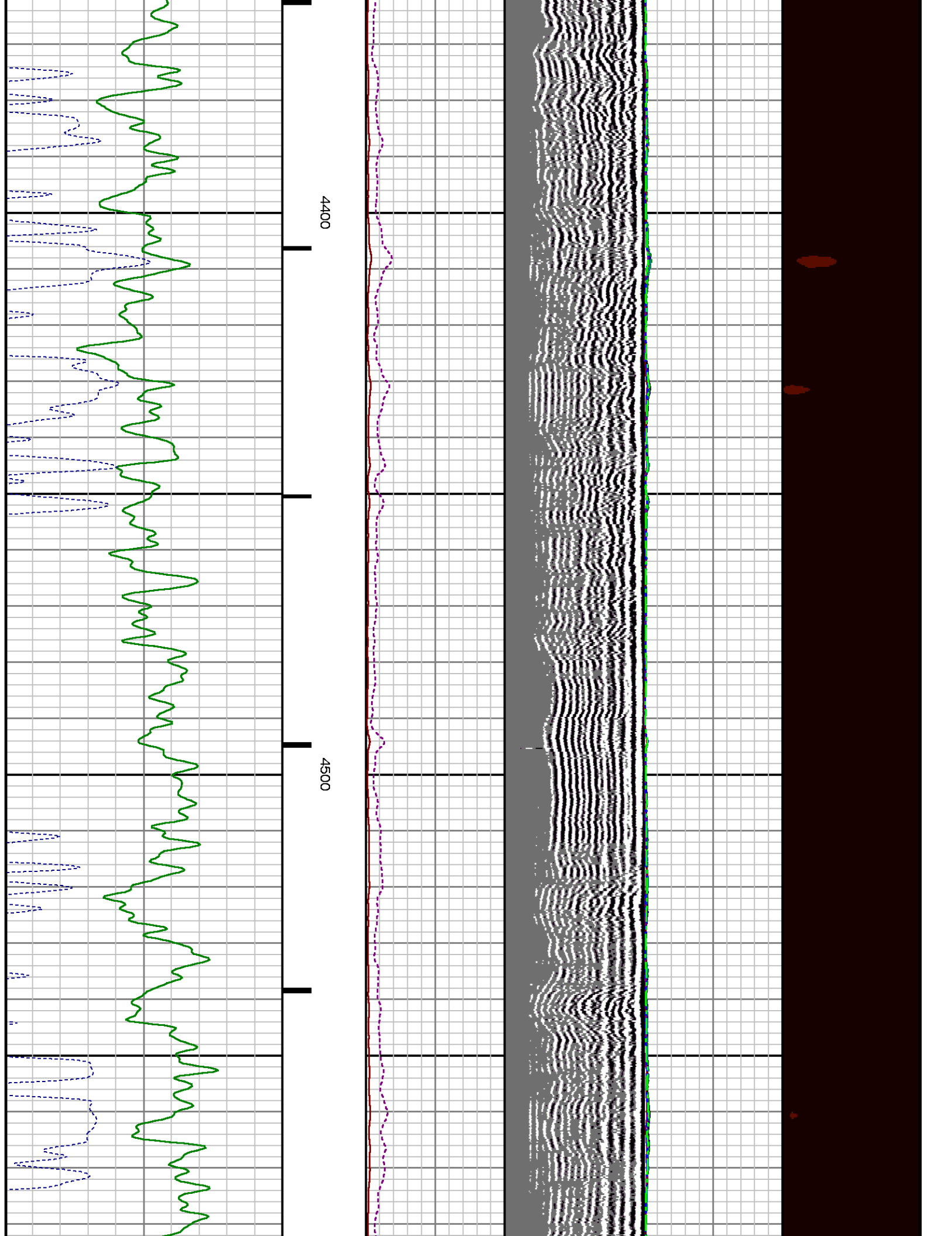


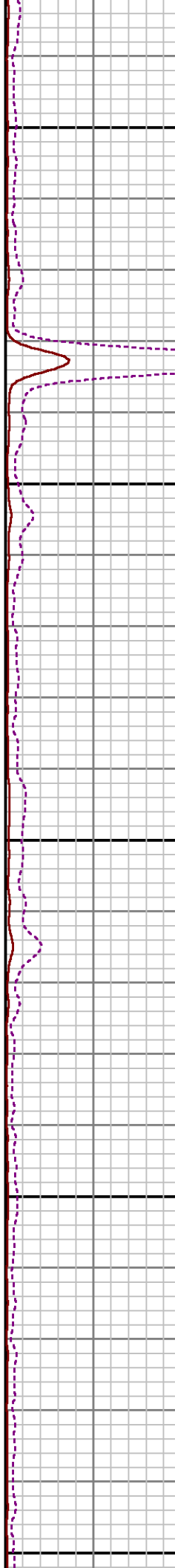
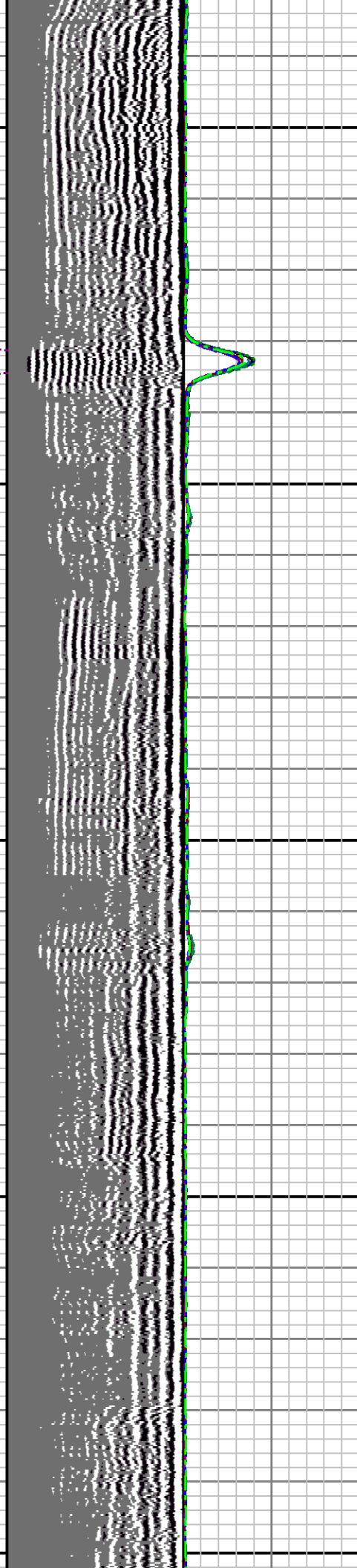








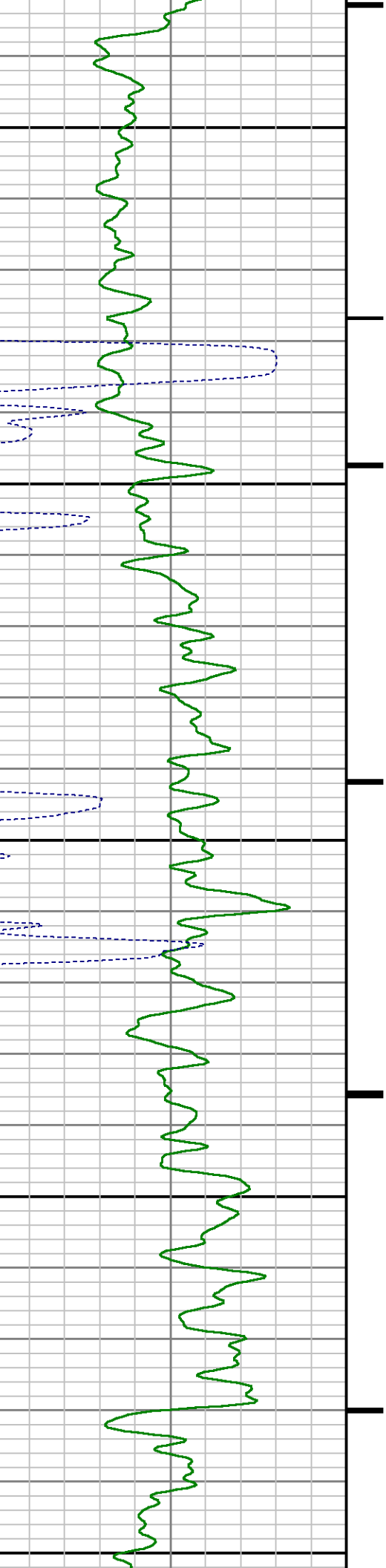


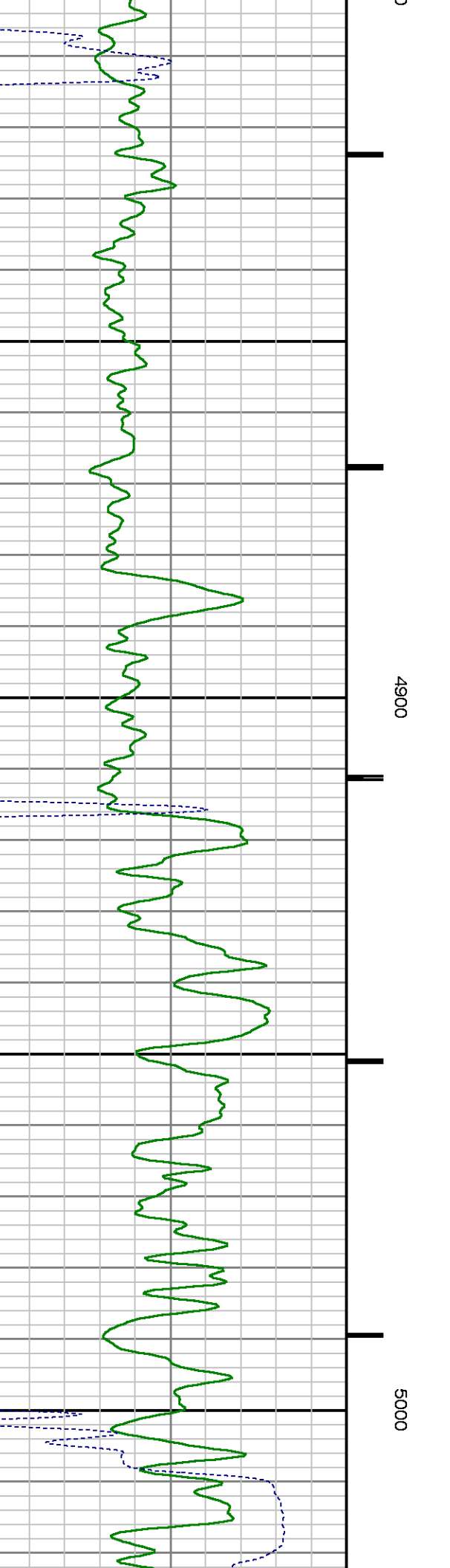
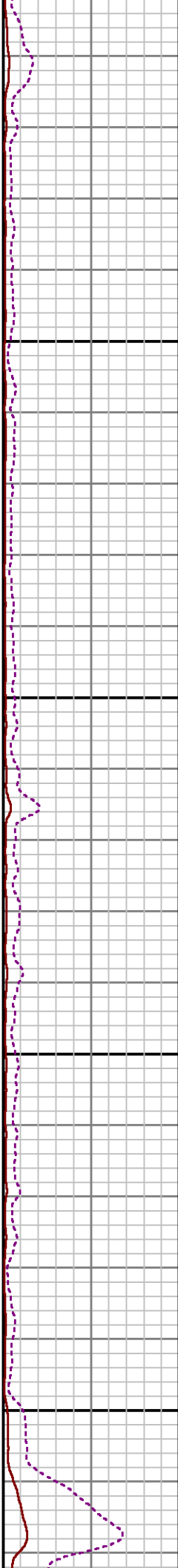
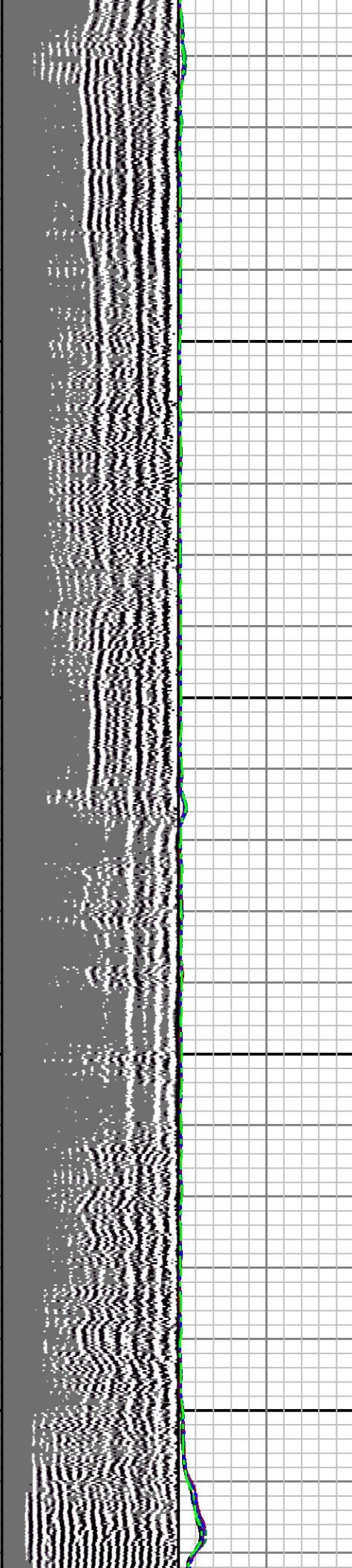


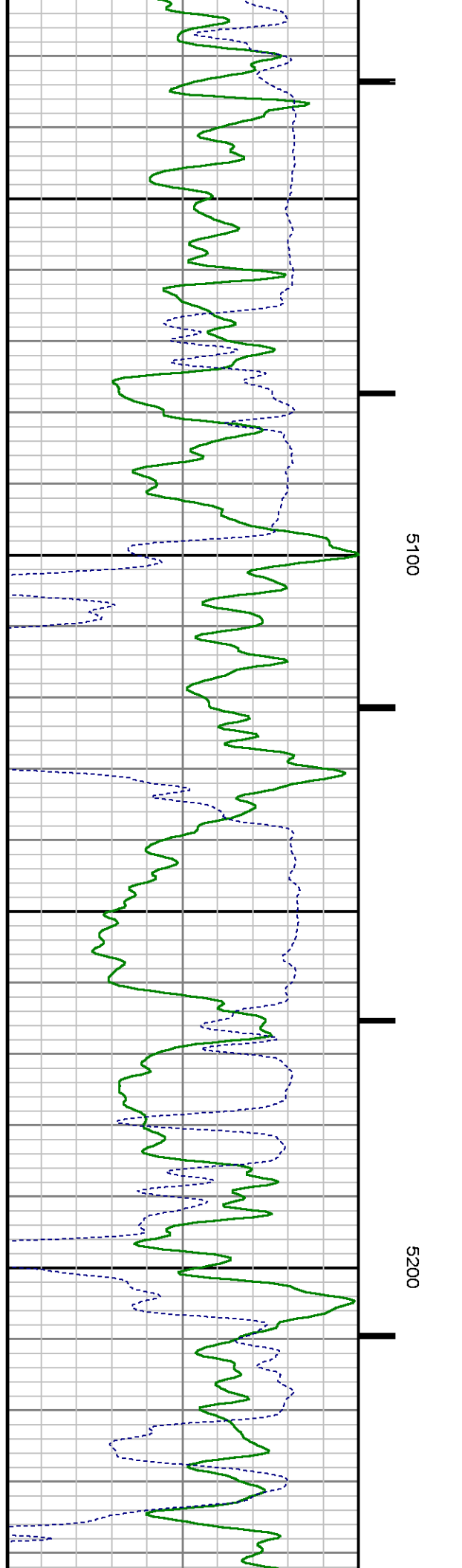
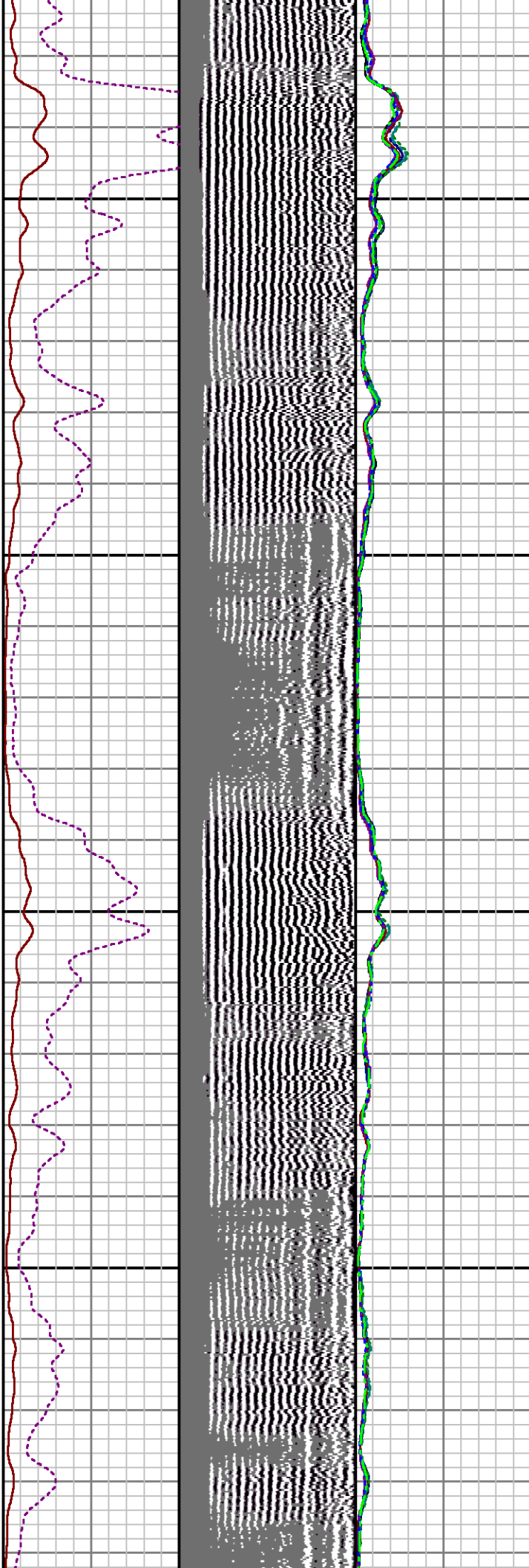
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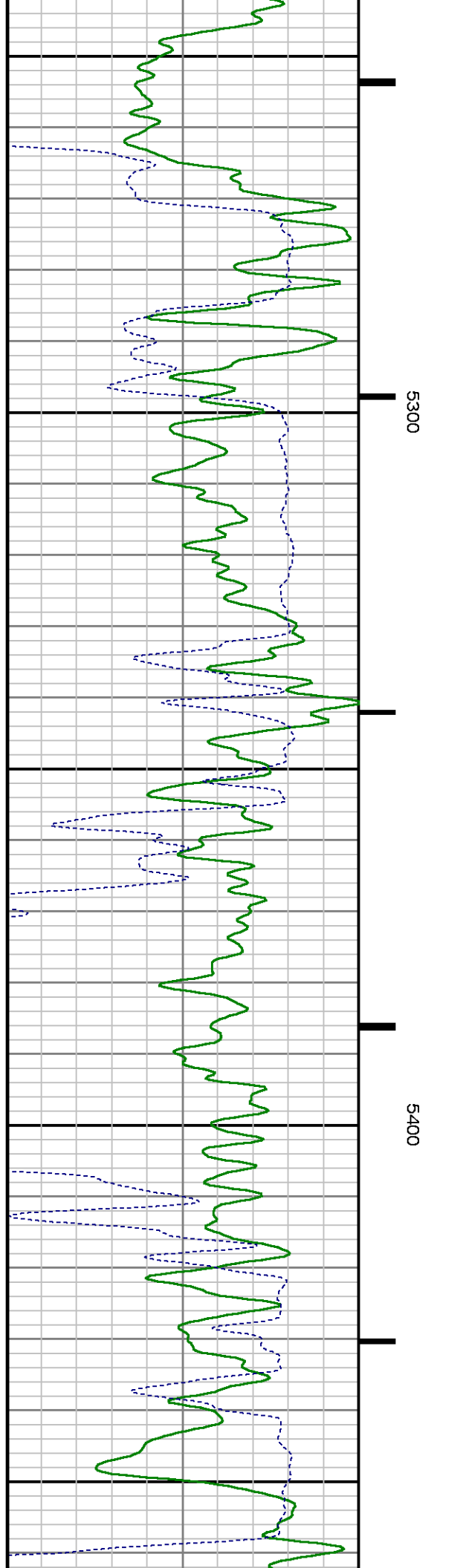
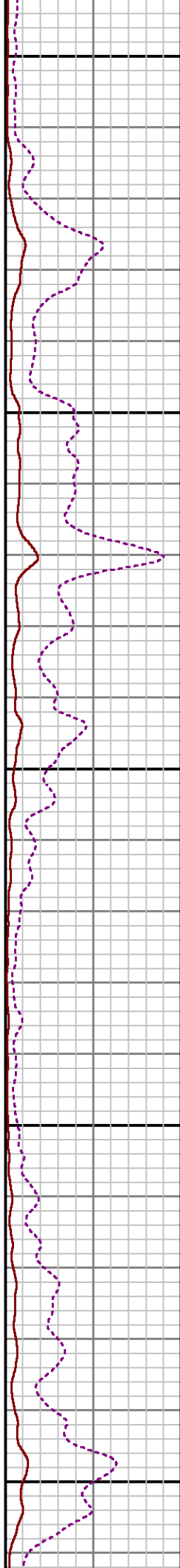
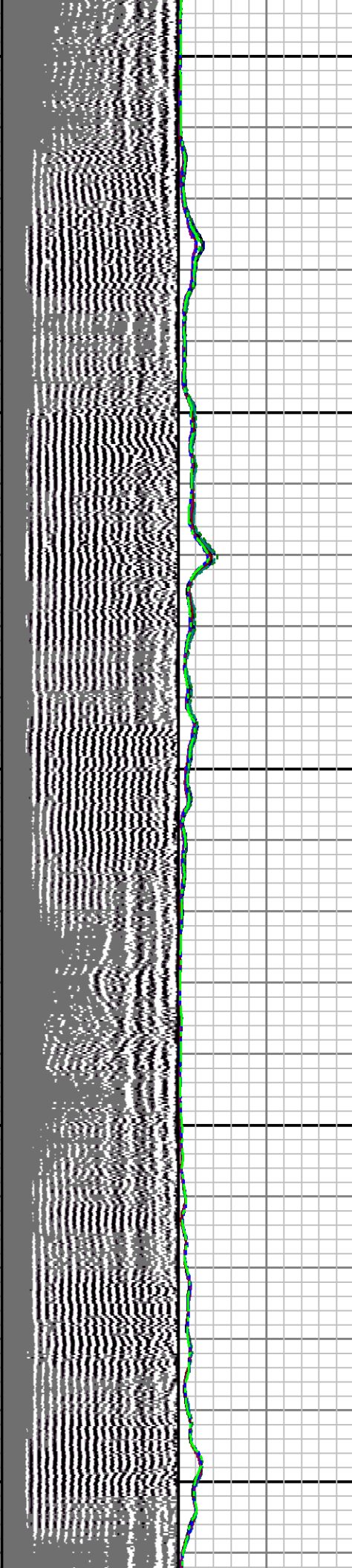
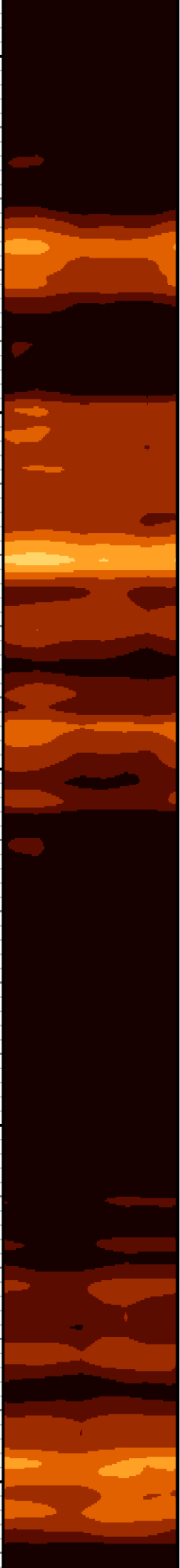
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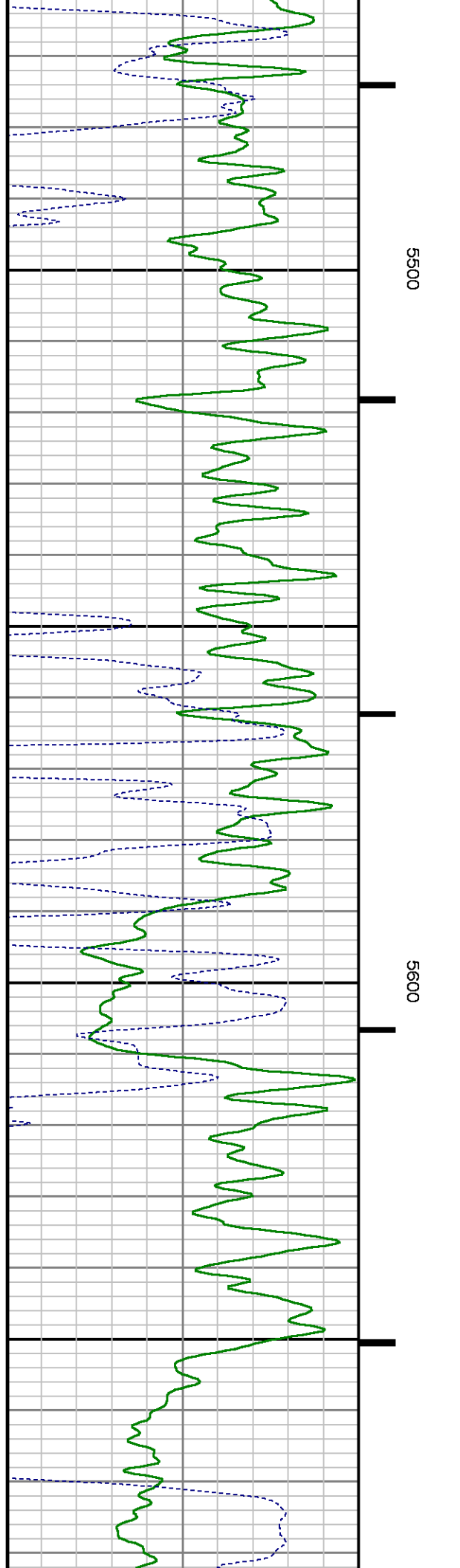
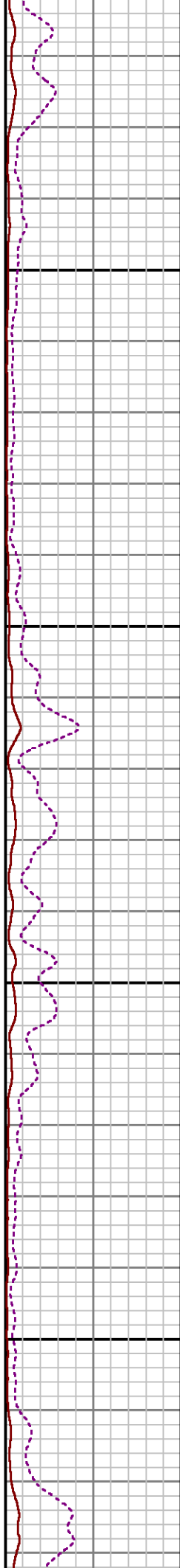
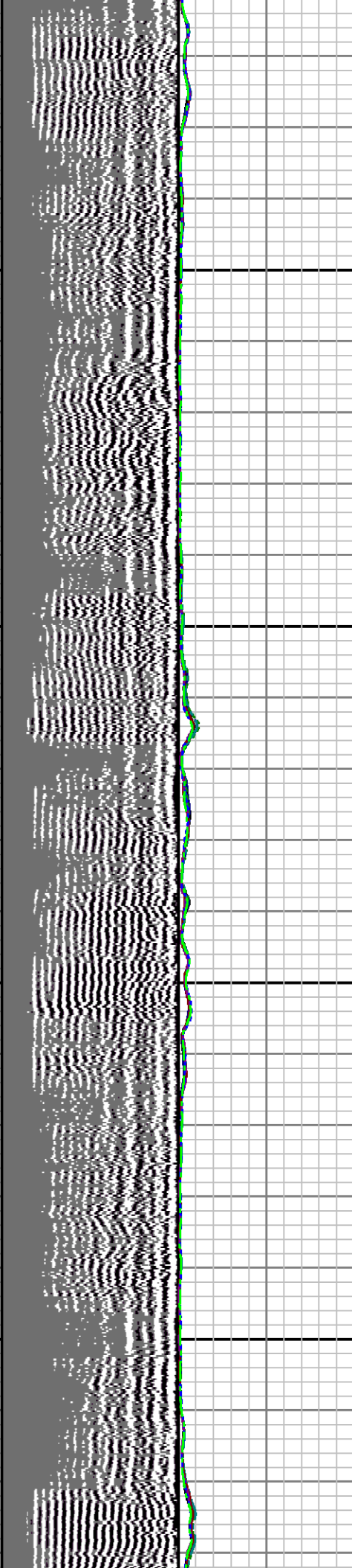
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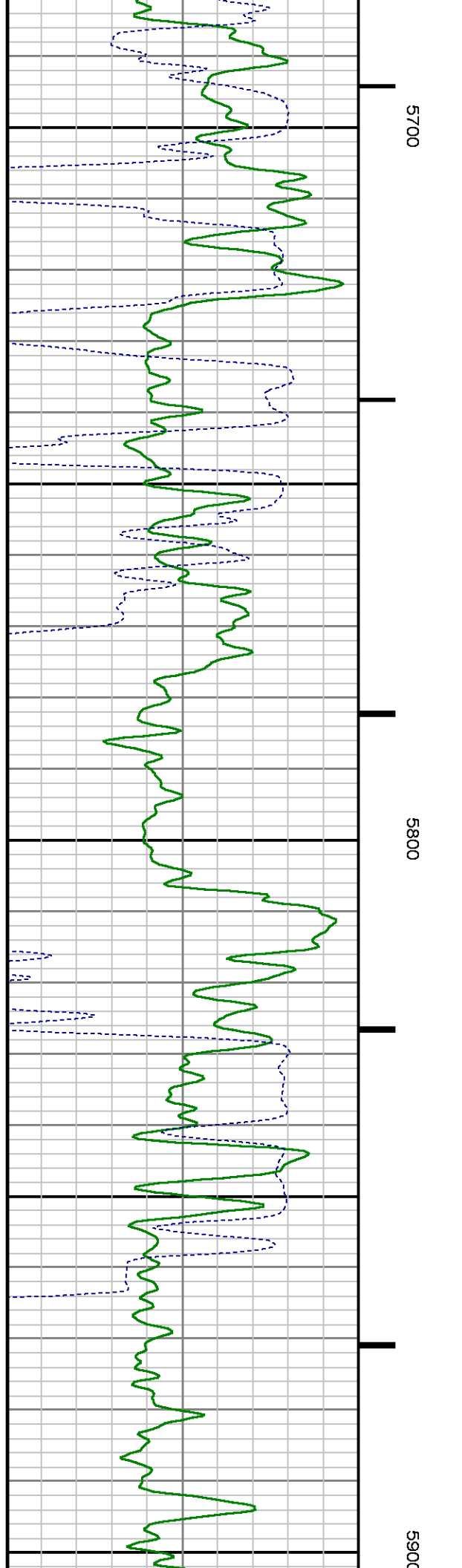
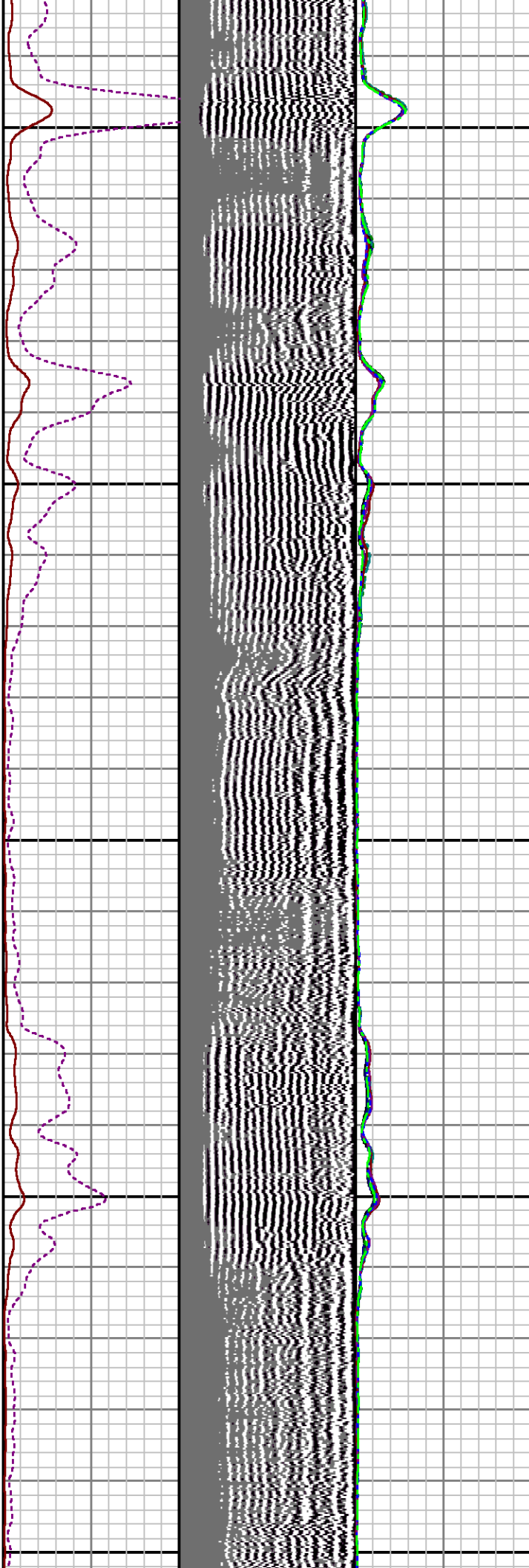


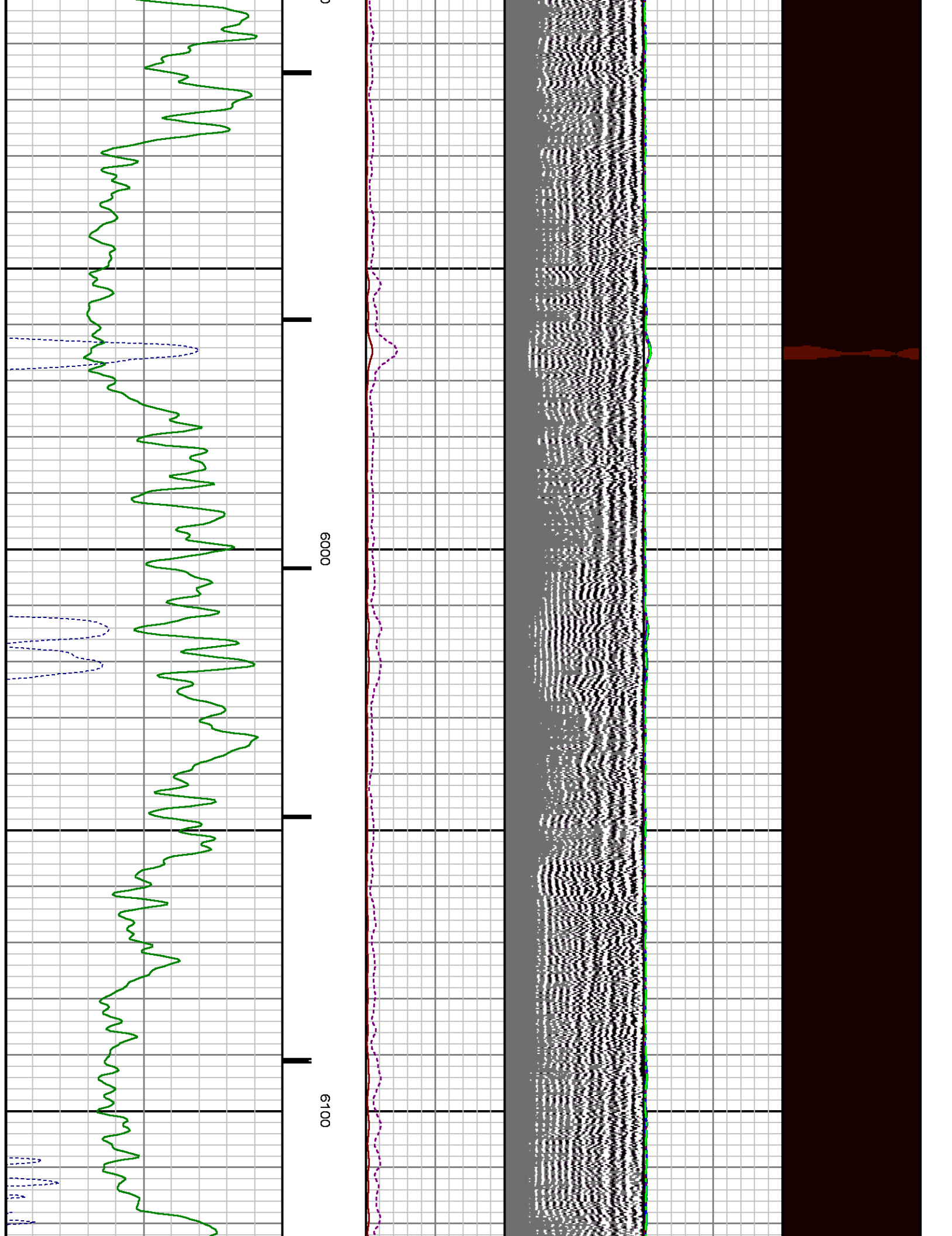


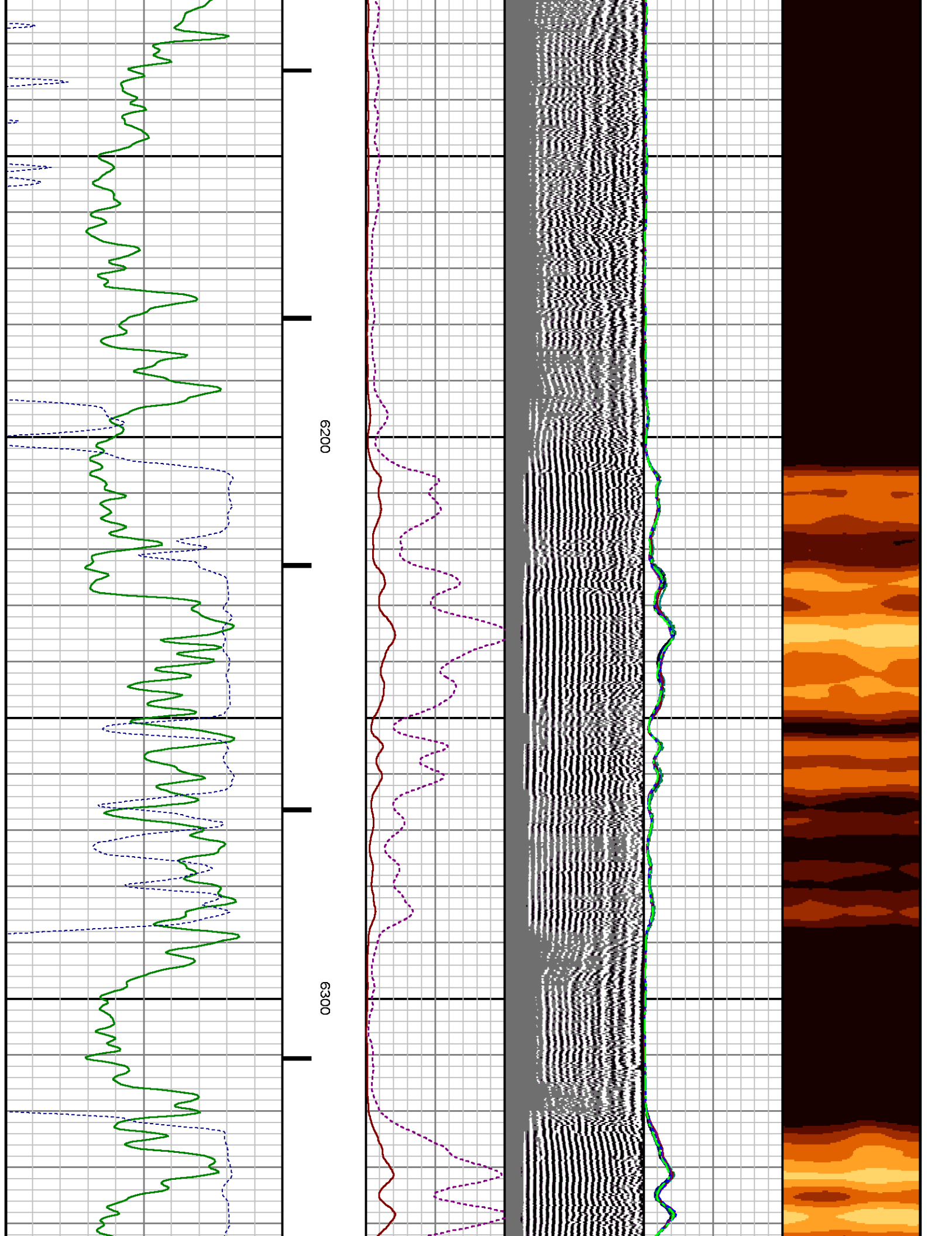


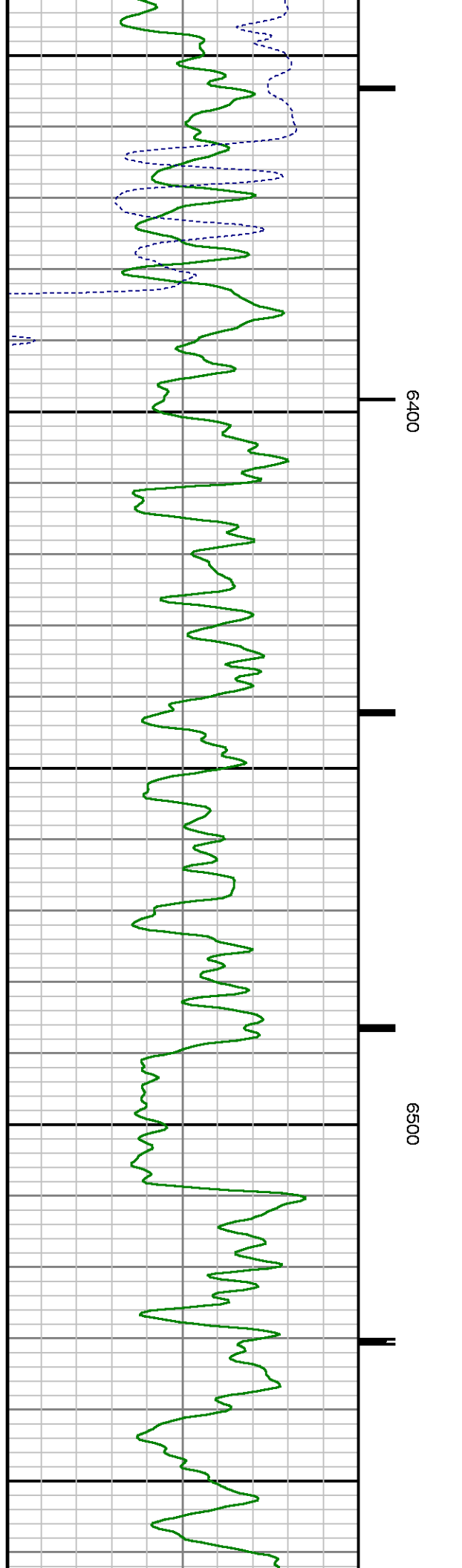
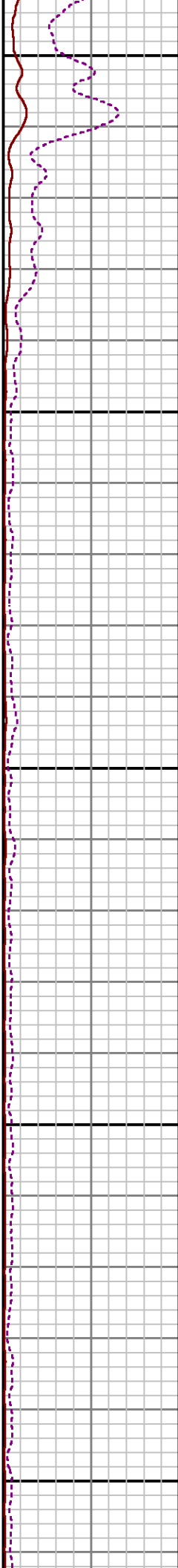
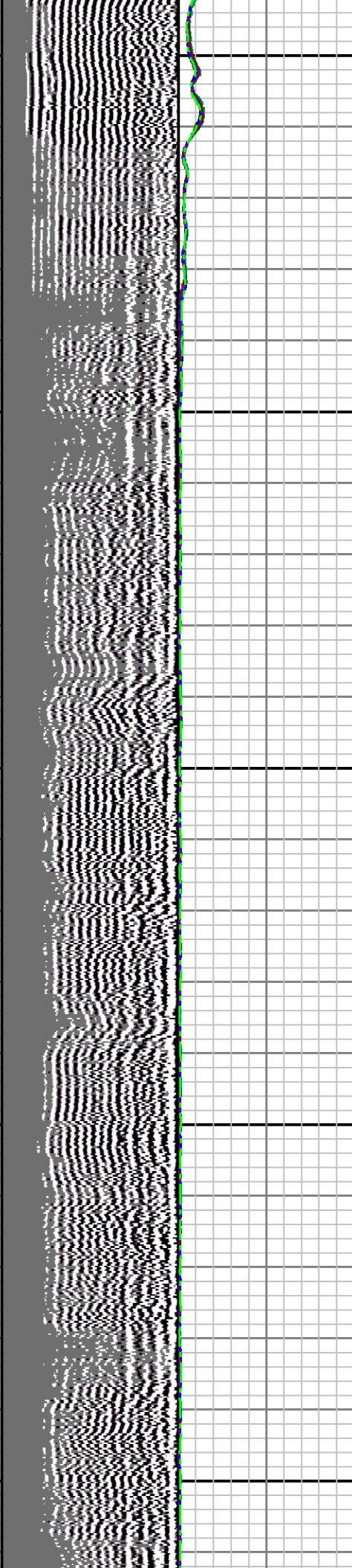


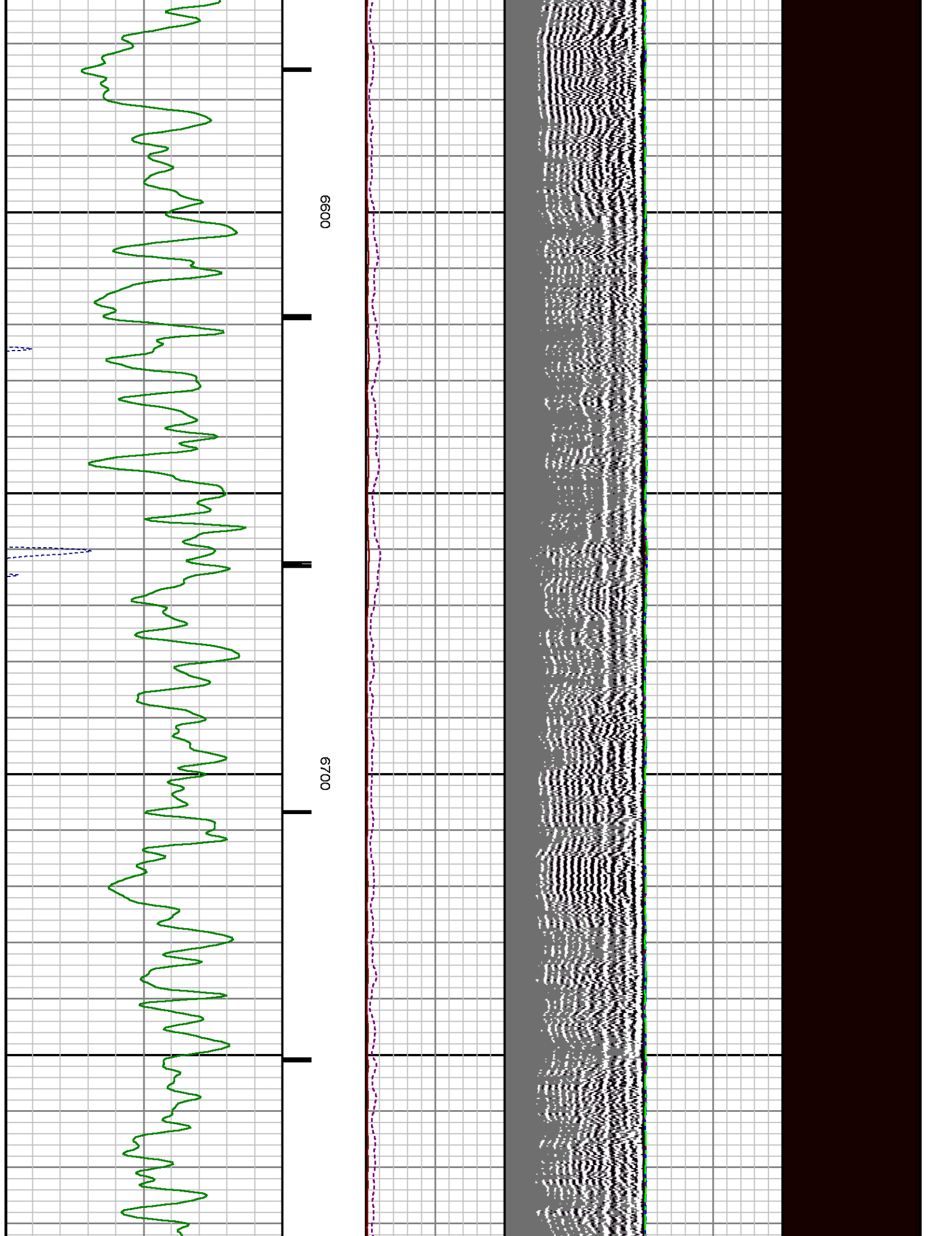


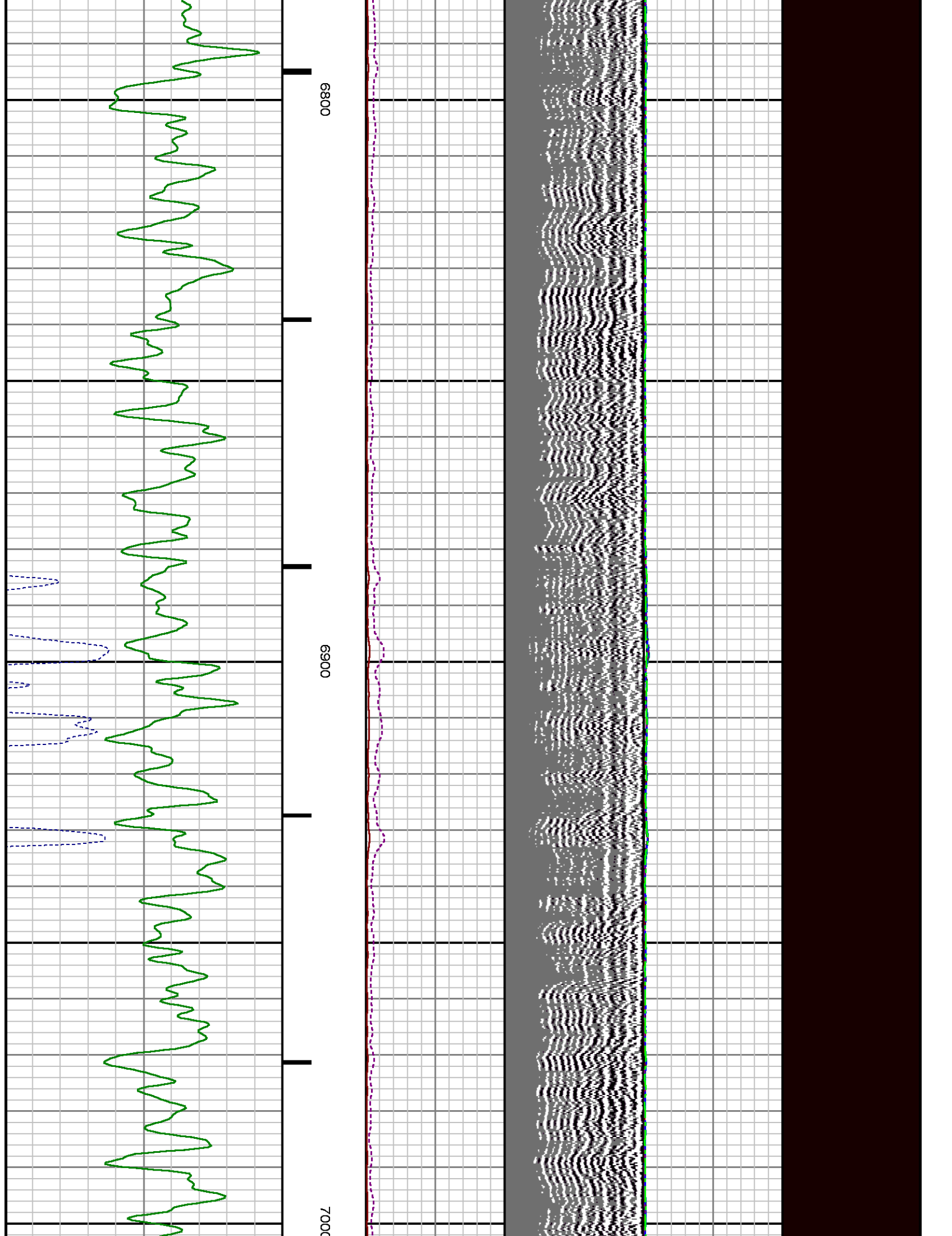


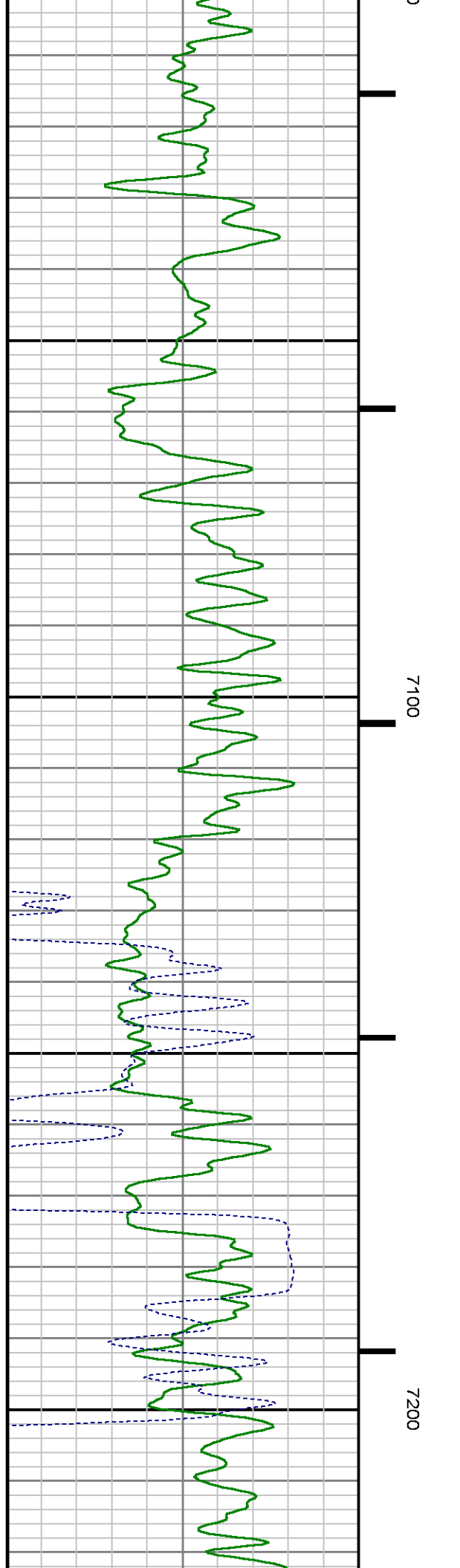
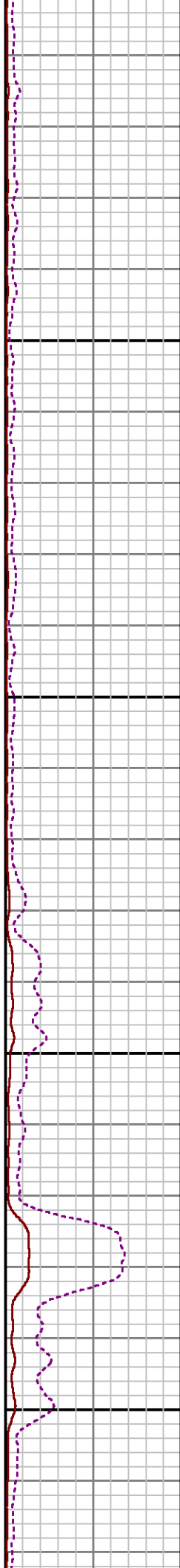
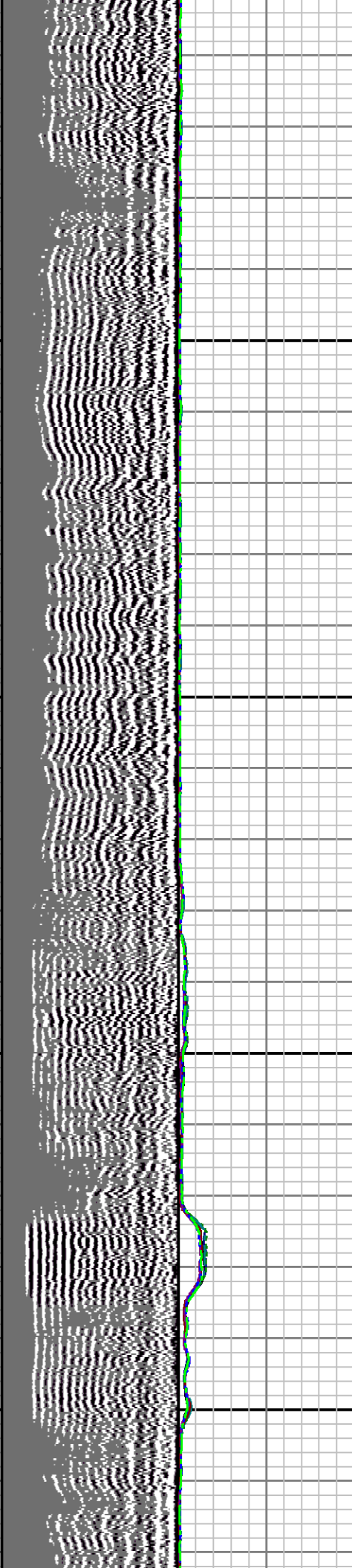


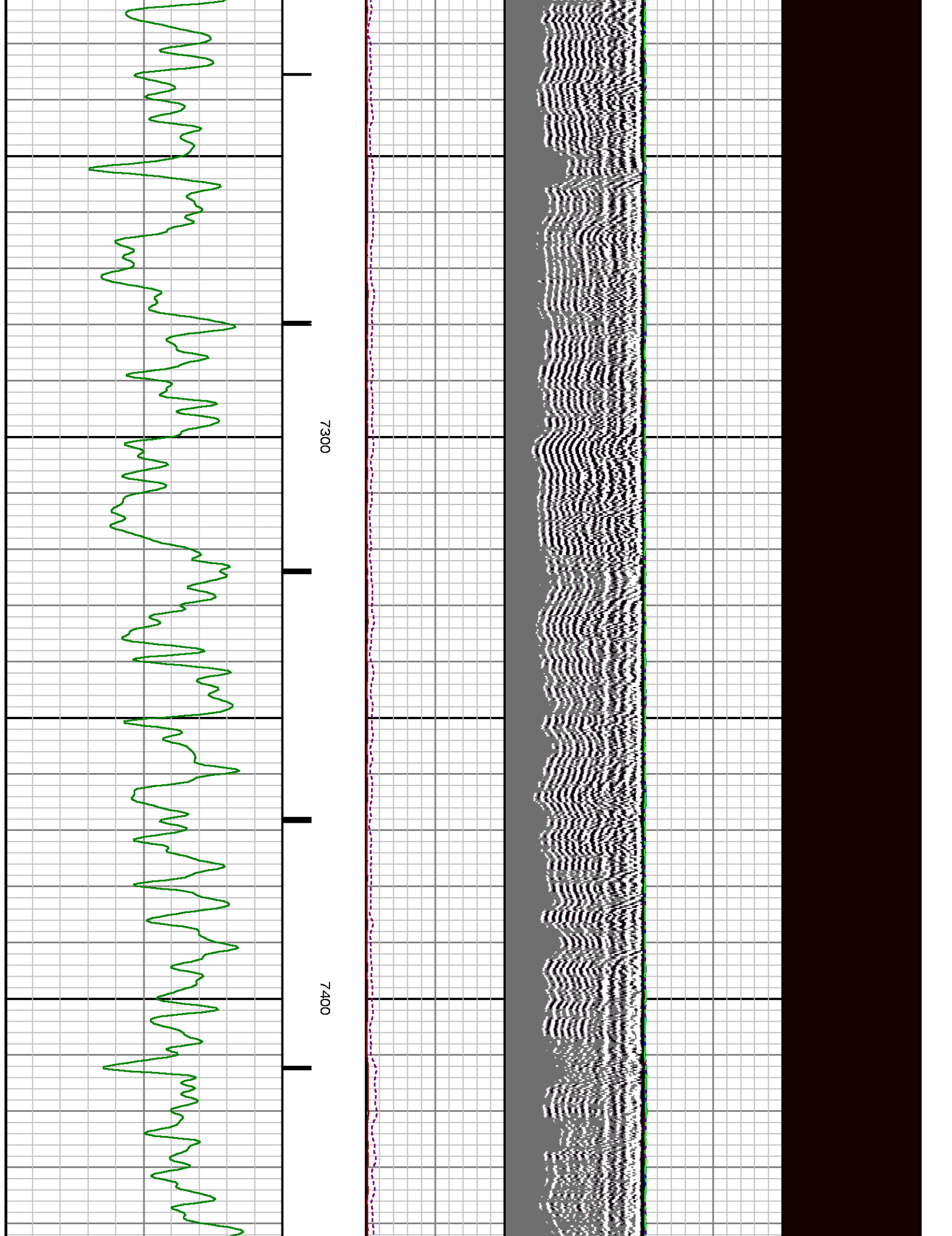


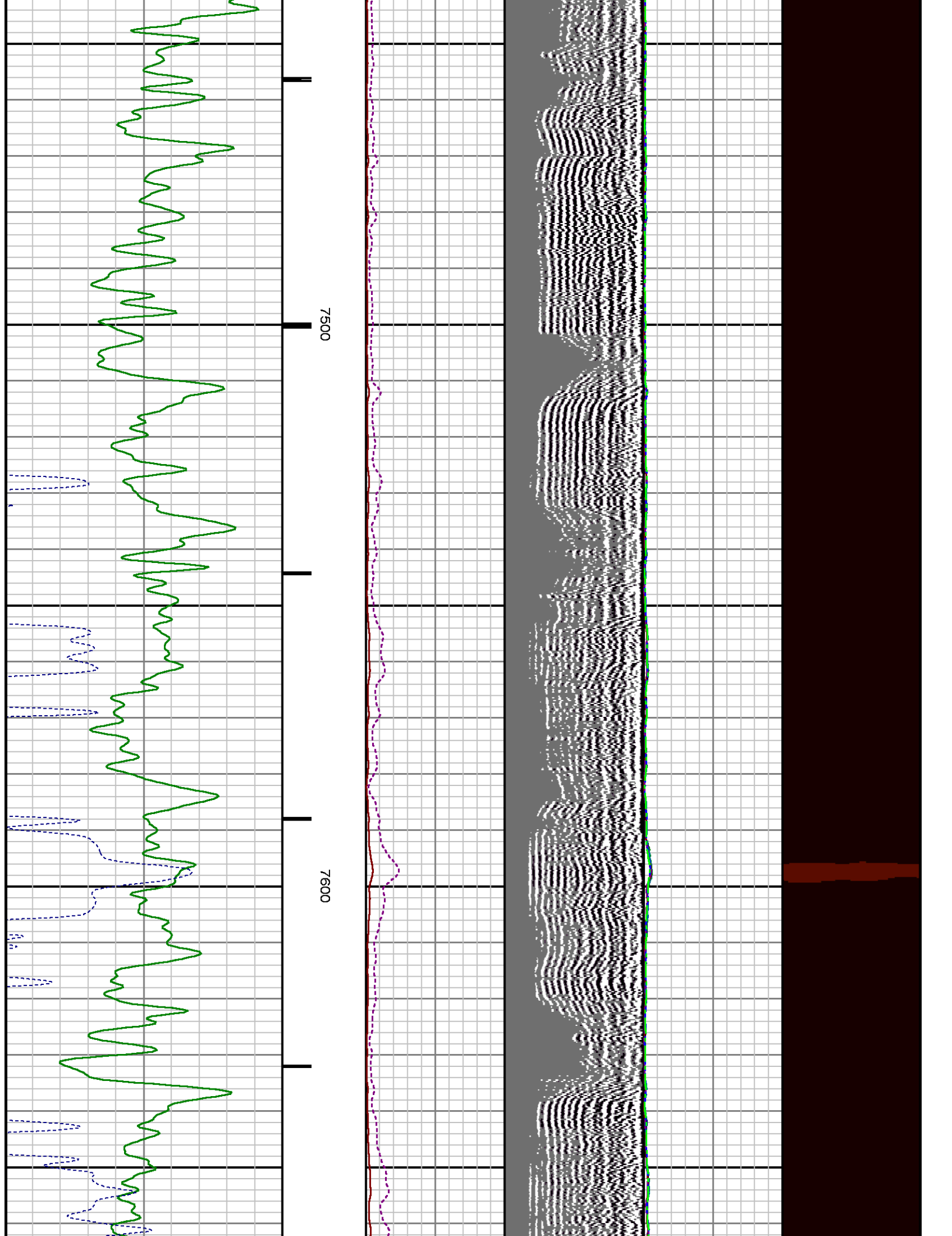


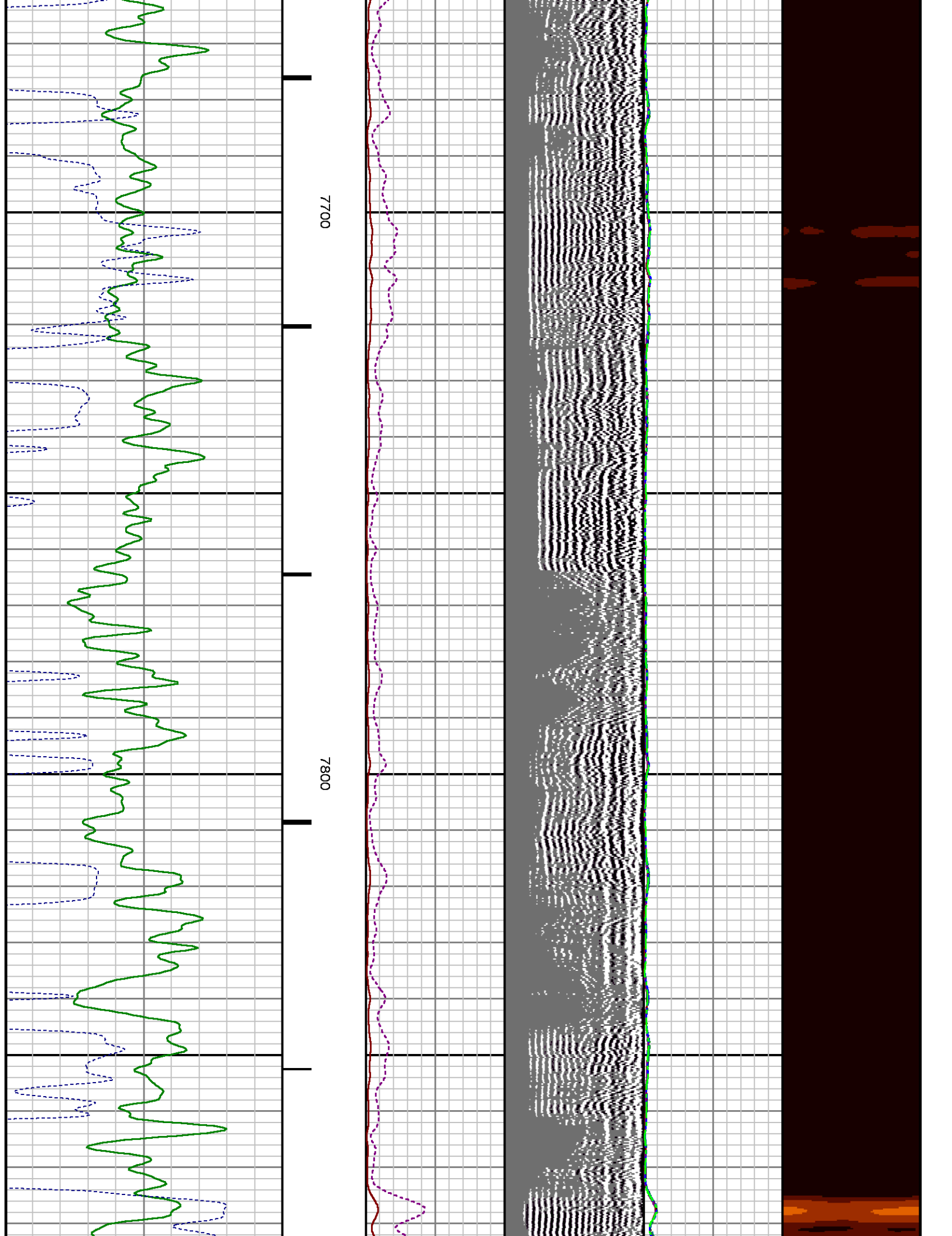


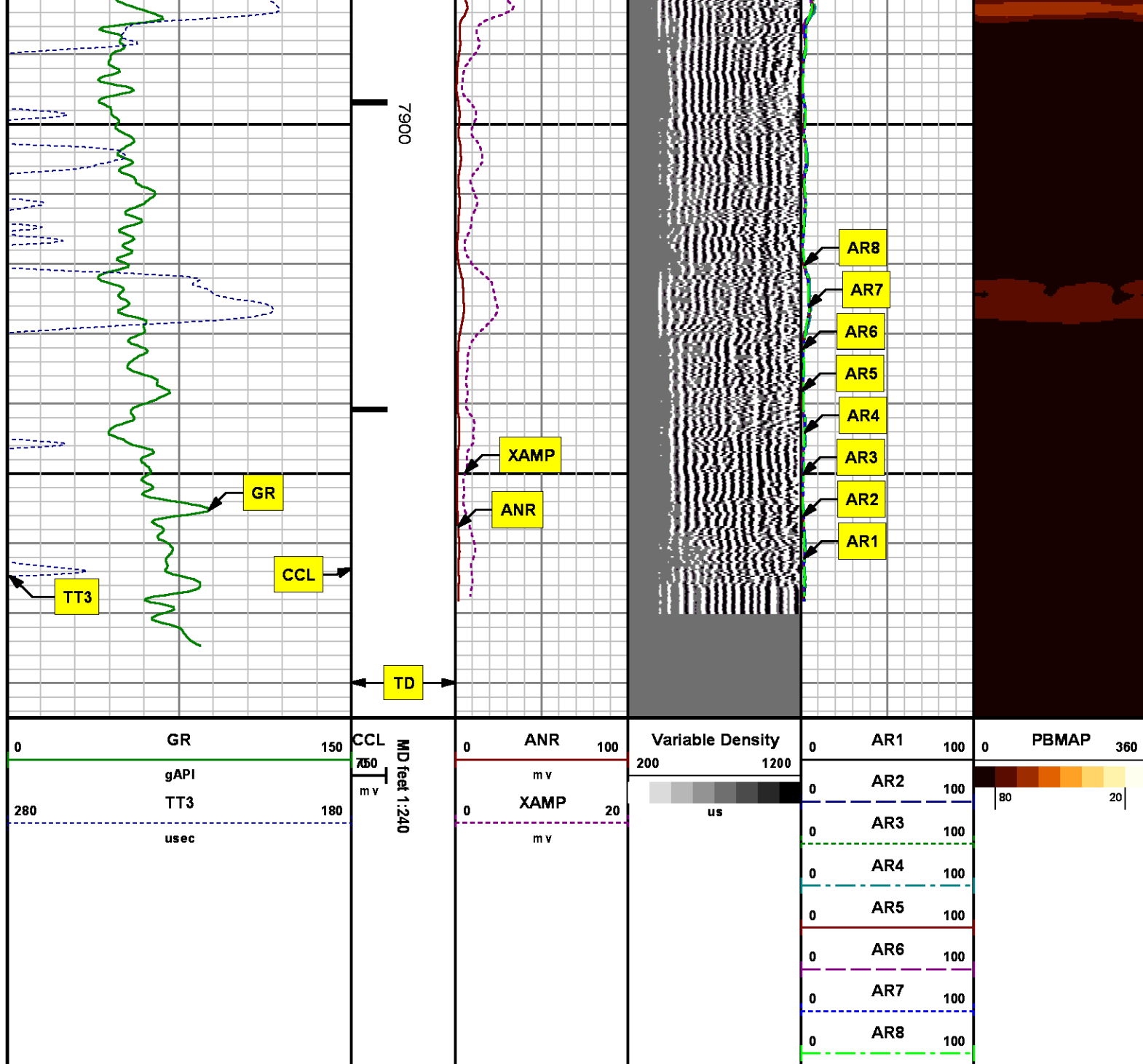












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7652.730	7986.980
RAL	Amp Gate Start Near	195.000	usec	7652.730	7986.980
RAL	Amp Gate Start Radial	195.000	usec	7652.730	7986.980
RAL	Amp Gate Width Far	25.000	usec	7652.730	7986.980
RAL	Amp Gate Width Near	25.000	usec	7652.730	7986.980
RAL	Amp Gate Width Radial	25.000	usec	7652.730	7986.980
RAL	casing od	4.500	inches	7652.730	7986.980
RAL	casing wt	11.600	lbm/ft	7652.730	7986.980
RAL	FB Start Far	291.900	usec	7652.730	7986.980
RAL	FB Start Near	175.391	usec	7652.730	7986.980
RAL	FB Start Radial	175.391	usec	7652.730	7986.980
RAL	FB Thresh Far	4.000	mv	7652.730	7986.980
RAL	FB Thresh Near	4.000	mv	7652.730	7986.980
RAL	FB Thresh Radial	4.000	mv	7652.730	7986.980
RAL	Fluid Travel Time	200.000	usec/ft	7652.730	7983.792

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

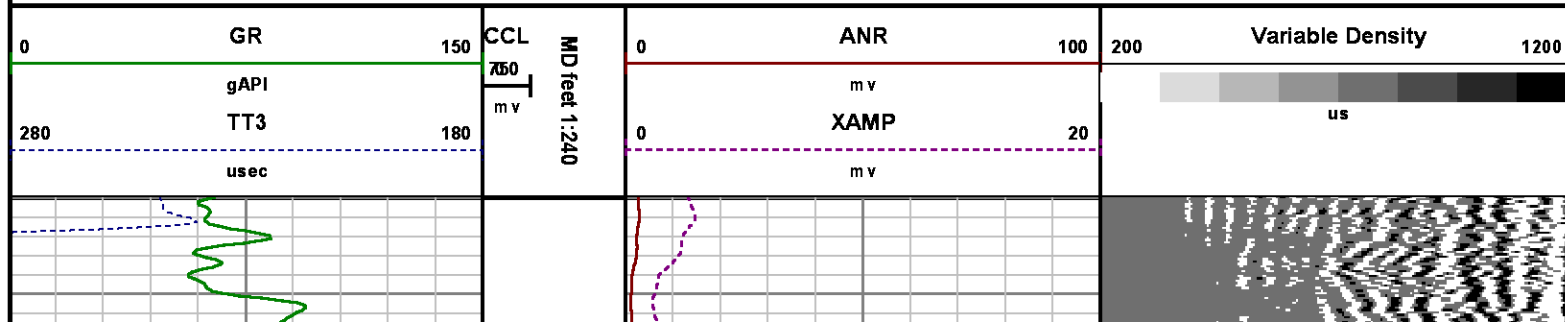
Well : PA 443-3

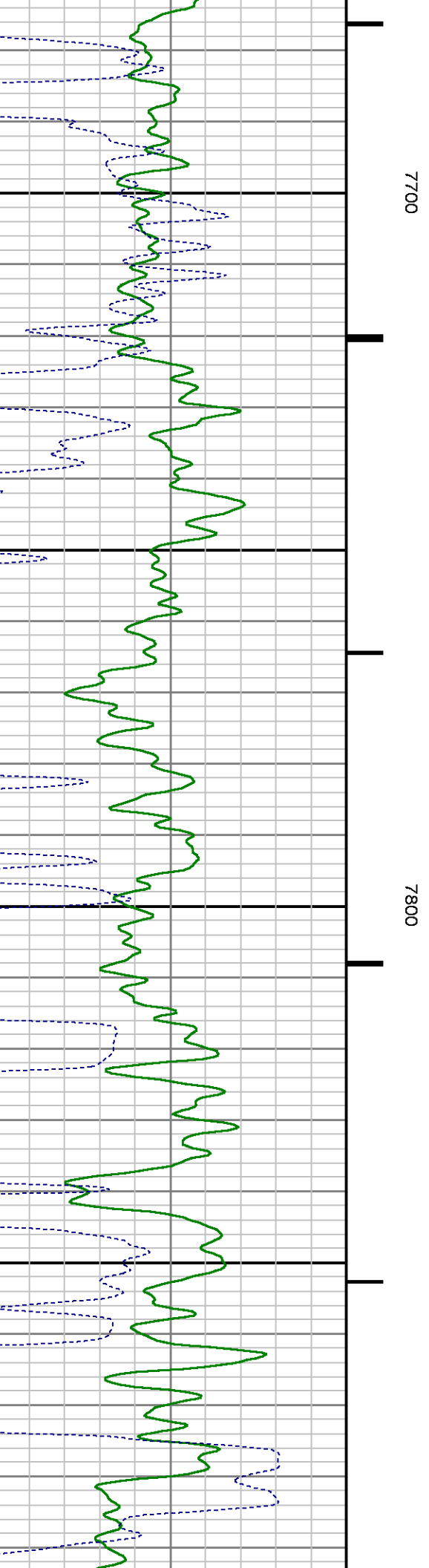
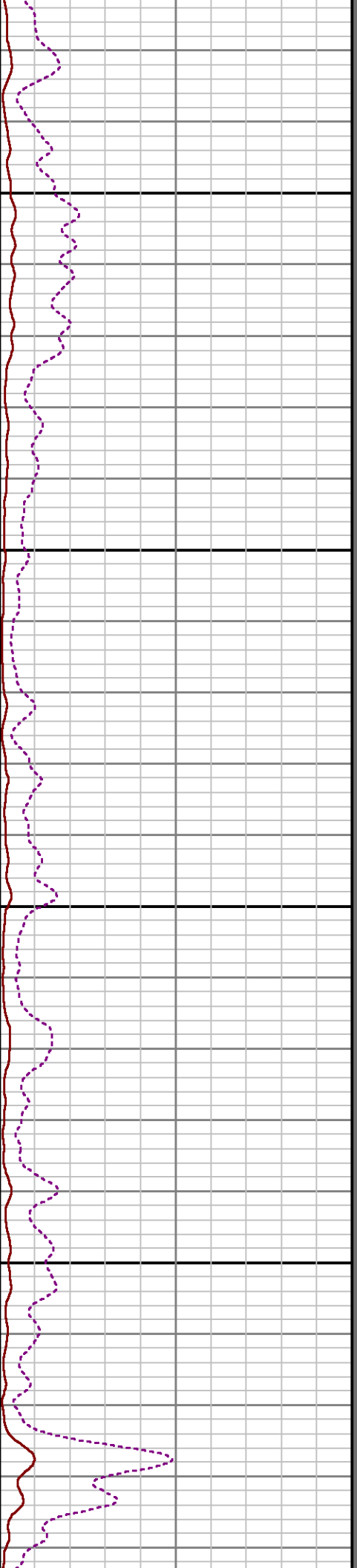
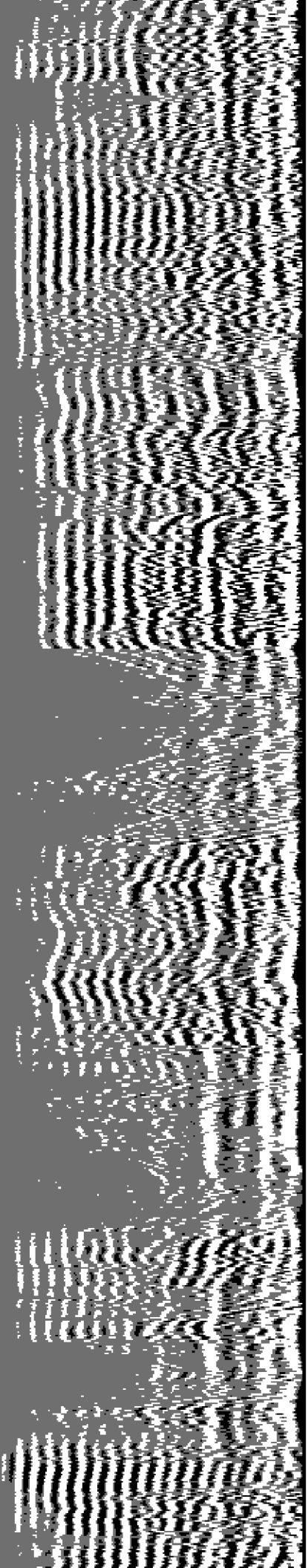
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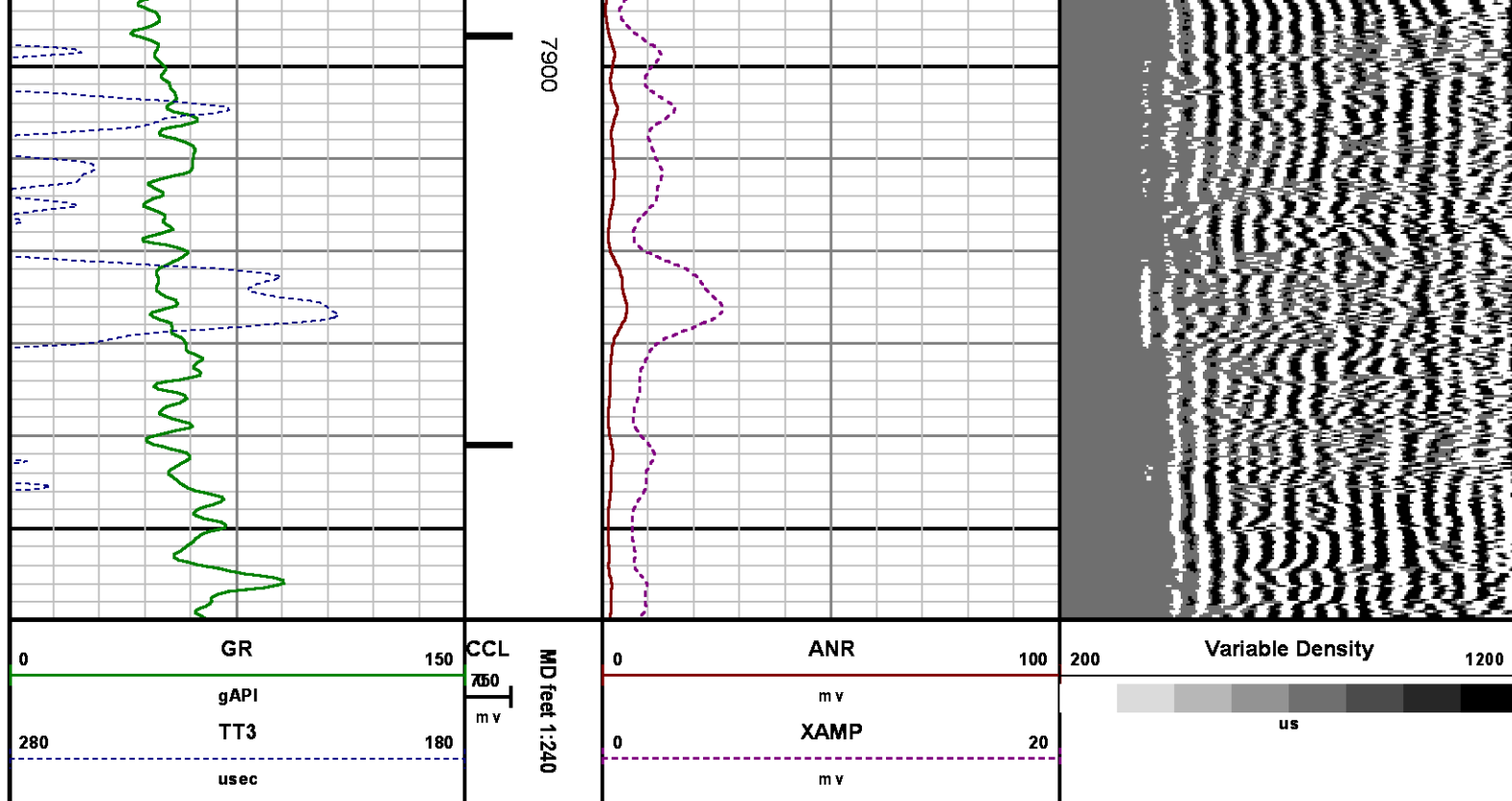
Mode : PlotMgr 5.4.504

Interval : 7660.00 - 7960.00 feet UP

Created : 6/23/2014 8:36:28 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\49623_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 23 07:56:36 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 23

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

RECEIVER	Travel Time [u sec]	Amp. Gate Start [u sec]	Amp. Gate Width [u sec]	Zero Gate Start [u sec]	Zero Gate Width [u sec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	0.117	100.00	0.32
3 Ft. Receiver	218	216	30	166	16	1.132	100.00	0.31
5 Ft. Receiver	326	325	30	257	25	0.564	150.00	0.36
Radial #1	218	216	30	166	18	0.704	100.00	0.32
Radial #2	217	216	30	166	18	0.702	100.00	0.31
Radial #3	216	216	30	166	18	0.703	100.00	0.31
Radial #4	216	216	30	166	18	1.036	100.00	0.31
Radial #5	217	216	30	166	18	1.004	100.00	0.31
Radial #6	218	216	30	166	18	0.879	100.00	0.32
Radial #7	218	216	30	166	18	0.401	100.00	0.32

Radial #7	218	216	30	166	18	0.461	100.00	0.32
Radial #8	219	216	30	166	18	0.900	100.00	0.32

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49623 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 23 08:05:46 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 23

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	0.042	0.000	1.00	100.000
3 Ft. Receiver	195	25	3.410			
5 Ft. Receiver	305	25	5.751			
Radial #1	195	25	3.149			
Radial #2	195	25	3.318			
Radial #3	195	25	3.857			
Radial #4	195	25	3.756			
Radial #5	195	25	4.018			
Radial #6	195	25	3.921			
Radial #7	195	25	2.947			
Radial #8	195	25	2.944			

GAMMA RAY

Calibration File: C:\case\calver\GR\456J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 10 11:37:19 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	93.20	369.51	0.670	62.40	247.40	185.00

Verification File: C:\case\calver\GR\456J1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jun 10 11:38:30 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	101.16	371.24	0.670	67.73	248.56	180.83

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

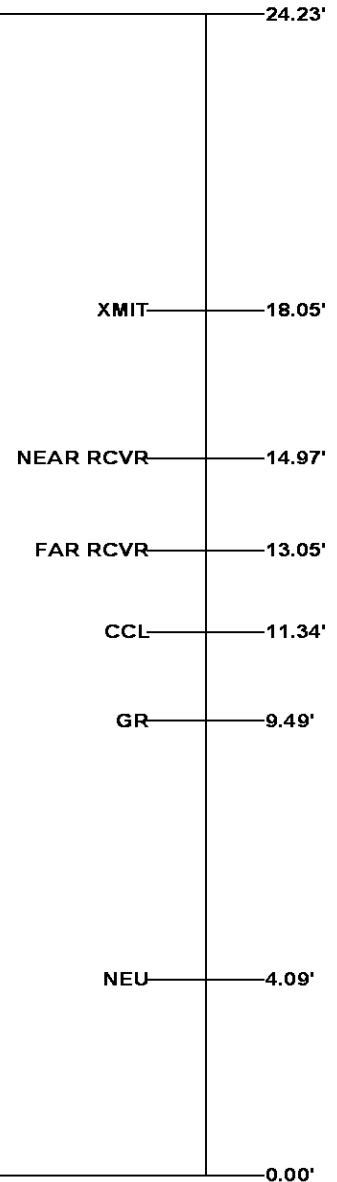
Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

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

CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



Total Length: 24.23'
Total Weight: Not Available
Max Diameter: 0' 3.12"



Baker Atlas

Company
Well
Field
County

WPX ENERGY
PA 443-3
PARACHUTE
GARFIELD

State

CO

Location

Elevations

File No:

CH087265

API No:

05045221500000



SHL: 2056' FSL & 1533' FWL (2 7S 95W)

BHL: 1523' FSL & 782' FEL (3 7S 95W)

SEC 3 TWP 7S RGE 95W

KB 5846 ft

DF

GL 5821 ft

3 7S 95W

GV 86-2 PAD

AZTEC 1000