



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH08838 WPX ENERGY

Well SAVAGE RWF 543-25

API No: RULISON

County GARFIELD State CO

05045219910000

Location

25 6S 94W SHL: 1162' FSL & 1381' FEL

RWF 43-25 PAD BHL: 1849' FSL & 659' FEL

NABORS 677 SEC 25 TWP 6S RGE 94W

Other Services

RPM

Permanent Datum GL Elevation 6234

Log Measured From KB 26 Above P. D.

Drill Measured From KB Elevations KB 6260 DF GL 6234

Date	06/AUG/14	
Run	ONE	
Service Order	US08838	
Depth Driller	8890	
Depth Logger	8821	
Bottom Logged Interval	8811	
Top Logged Interval	26	
Time Started	8:00	
Time Finished	12:00	
Operator Rig Time	4 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	75	
Logged Cement Top	NA	
Wellhead Pressure	0	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65	
Maximum Recorded Temperature	245	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEMELL	
Witnessed By	BOB CADDY	

- 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	1113
8.75	1113	8908

Casing Record				
Size	Weight	Grade	From	To
9.625			0	1113
4.5	11.6	1-80	0	8908

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 4 feet.
Logged with zero PSI at wellhead.
BHT = 245 °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	31.162	1733.500
RAL	Amp Gate Start Near	195.000	usec	31.162	1733.500
RAL	Amp Gate Start Radial	195.000	usec	31.162	1733.500
RAL	Amp Gate Width Far	25.000	usec	31.162	1733.500
RAL	Amp Gate Width Near	25.000	usec	31.162	1733.500
RAL	Amp Gate Width Radial	25.000	usec	31.162	1733.500
RAL	casing od	4.500	inches	31.162	1733.500
RAL	casing wt	11.600	lbm/ft	31.162	1733.500
RAL	FB Start Far	291.900	usec	31.162	1733.500
RAL	FB Start Near	175.391	usec	31.162	1733.500
RAL	FB Start Radial	175.391	usec	31.162	1733.500
RAL	FB Thresh Far	10.000	mv	31.162	1733.500
RAL	FB Thresh Near	4.000	mv	31.162	1733.500
RAL	FB Thresh Radial	4.000	mv	31.162	1733.500
RAL	Fluid Travel Time	200.000	usec/ft	31.162	1733.500
RAL	Amp Gate Start Far	305.000	usec	1733.500	5003.500
RAL	Amp Gate Start Near	195.000	usec	1733.500	5003.500
RAL	Amp Gate Start Radial	195.000	usec	1733.500	5003.500
RAL	Amp Gate Width Far	25.000	usec	1733.500	5003.500
RAL	Amp Gate Width Near	25.000	usec	1733.500	5003.500
RAL	Amp Gate Width Radial	25.000	usec	1733.500	5003.500
RAL	casing od	4.500	inches	1733.500	5003.500
RAL	casing wt	11.600	lbm/ft	1733.500	5003.500
RAL	FB Start Far	291.900	usec	1733.500	5003.500
RAL	FB Start Near	175.391	usec	1733.500	5003.500
RAL	FB Start Radial	175.391	usec	1733.500	5003.500
RAL	FB Thresh Far	10.000	mv	1733.500	5003.500
RAL	FB Thresh Near	4.000	mv	1733.500	5003.500
RAL	FB Thresh Radial	4.000	mv	1733.500	5003.500

RAL	FB Thresh Near	4.000	mv	1733.500	5003.500
RAL	FB Thresh Radial	4.000	mv	1733.500	5003.500
RAL	Fluid Travel Time	200.000	usec/ft	1733.500	5003.500
RAL	Amp Gate Start Far	305.000	usec	5003.500	8825.500
RAL	Amp Gate Start Near	195.000	usec	5003.500	8825.500
RAL	Amp Gate Start Radial	195.000	usec	5003.500	8825.500
RAL	Amp Gate Width Far	25.000	usec	5003.500	8825.500
RAL	Amp Gate Width Near	25.000	usec	5003.500	8825.500
RAL	Amp Gate Width Radial	25.000	usec	5003.500	8825.500
RAL	casing od	4.500	inches	5003.500	8825.500
RAL	casing wt	11.600	lbm/ft	5003.500	8825.500
RAL	FB Start Far	291.900	usec	5003.500	8825.500
RAL	FB Start Near	175.391	usec	5003.500	8825.500
RAL	FB Start Radial	175.391	usec	5003.500	8825.500
RAL	FB Thresh Far	10.000	mv	5003.500	8825.500
RAL	FB Thresh Near	4.000	mv	5003.500	8825.500
RAL	FB Thresh Radial	4.000	mv	5003.500	8825.500
RAL	Fluid Travel Time	200.000	usec/ft	5003.500	8826.124

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3		
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP		
1426XA	-11.360	AFAR	SIG	TT5					
2459XA	-7.250	CCL							
2459XA	-5.390	GR							
2459XA	0.000	NEU							

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

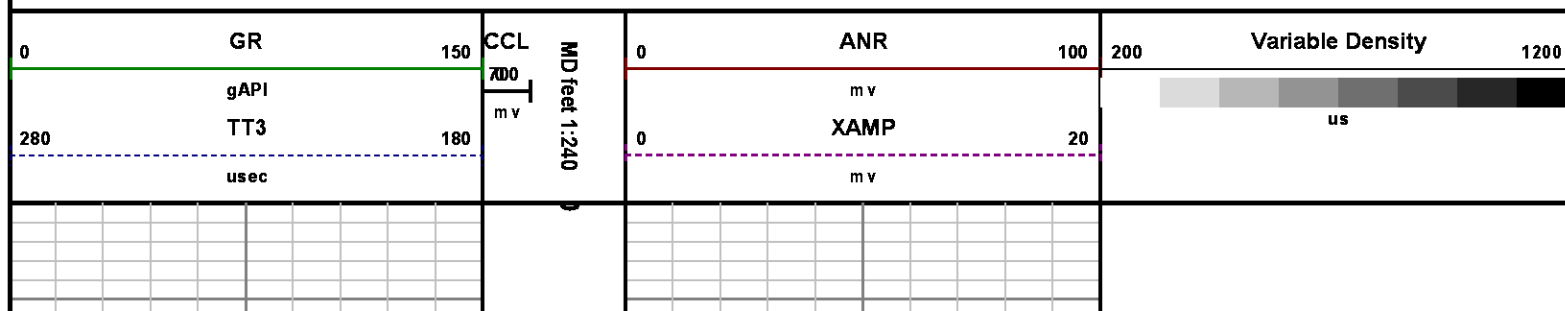
Well : SAVAGE RWF 543-25

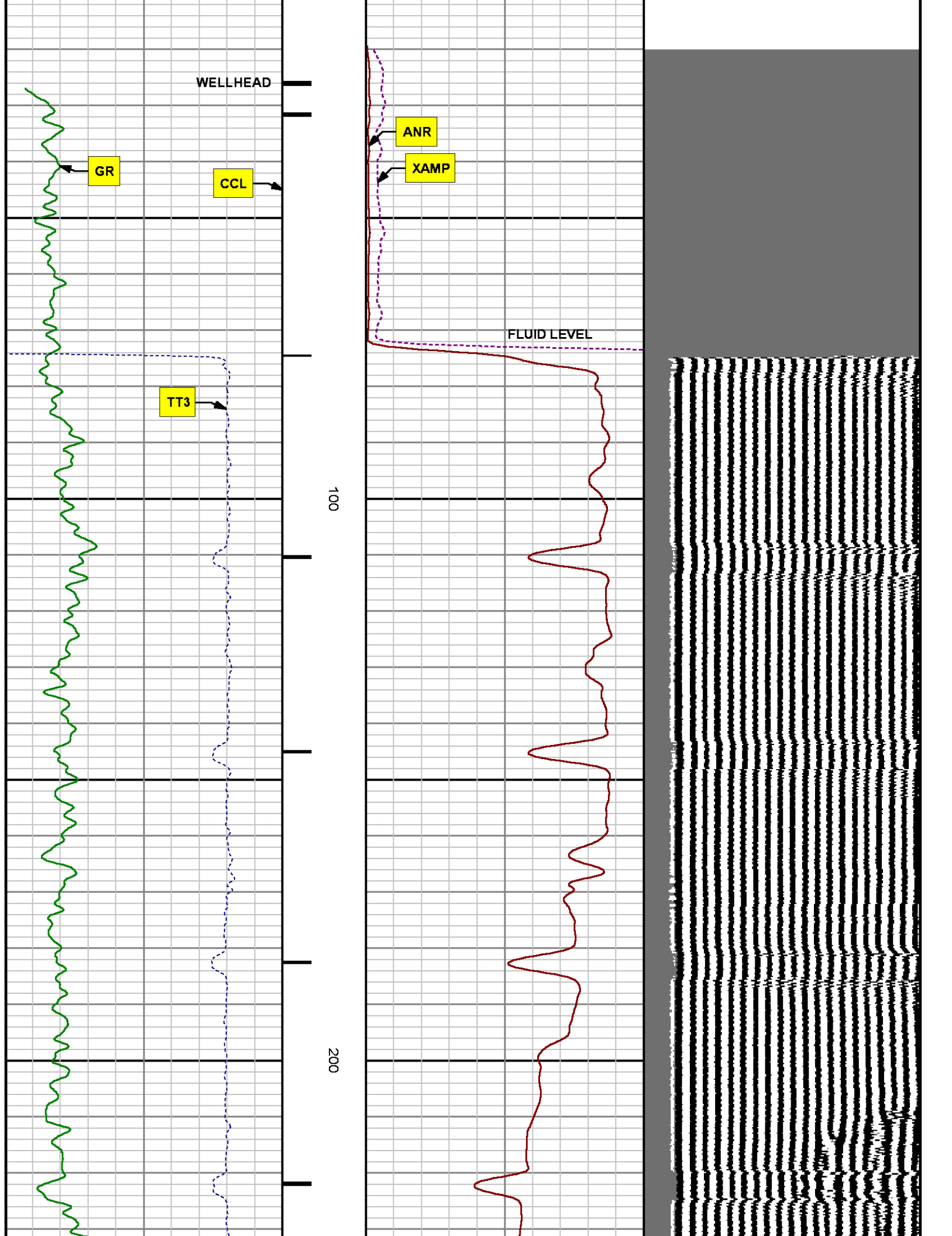
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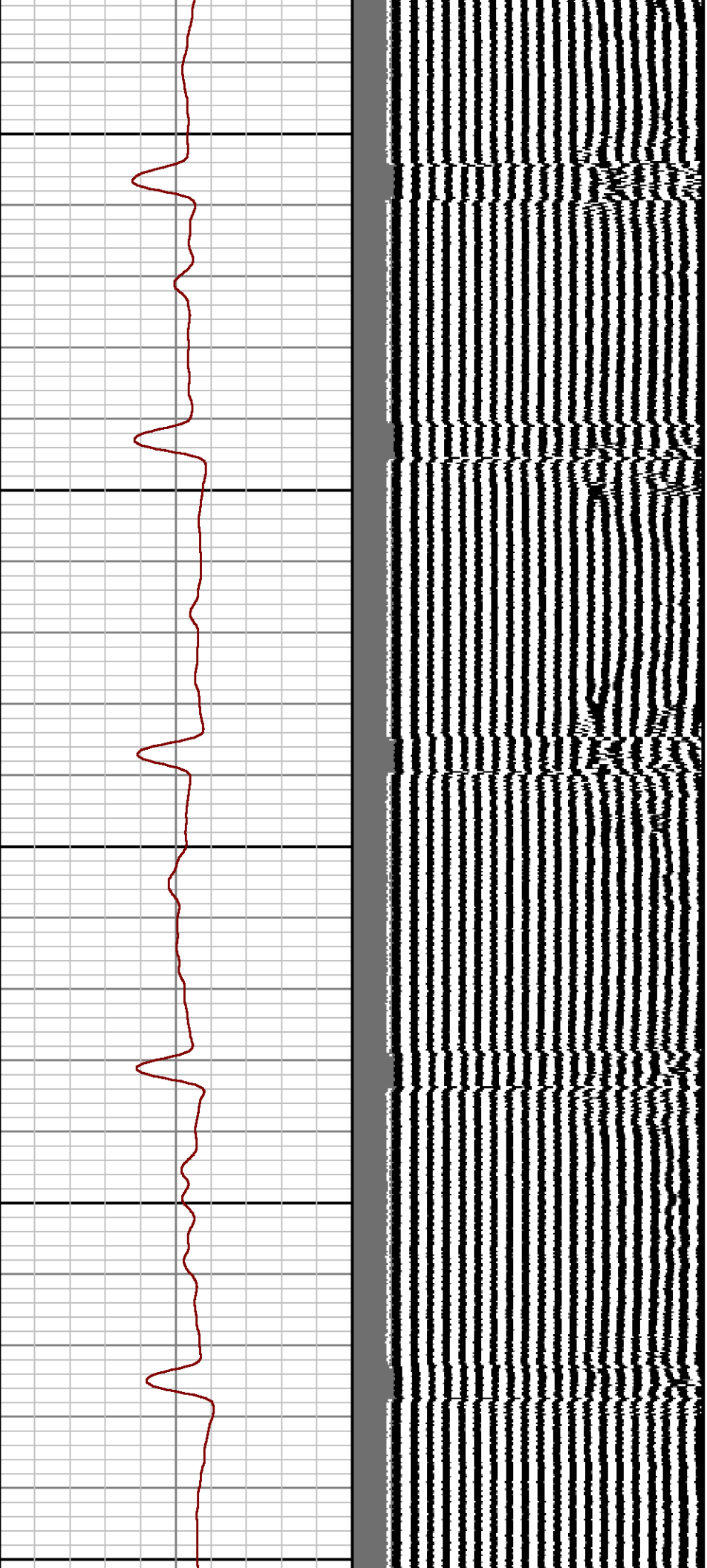
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Interval : 0.00 - 8826.00 feet UP

Created : 8/6/2014 2:54:14 PM

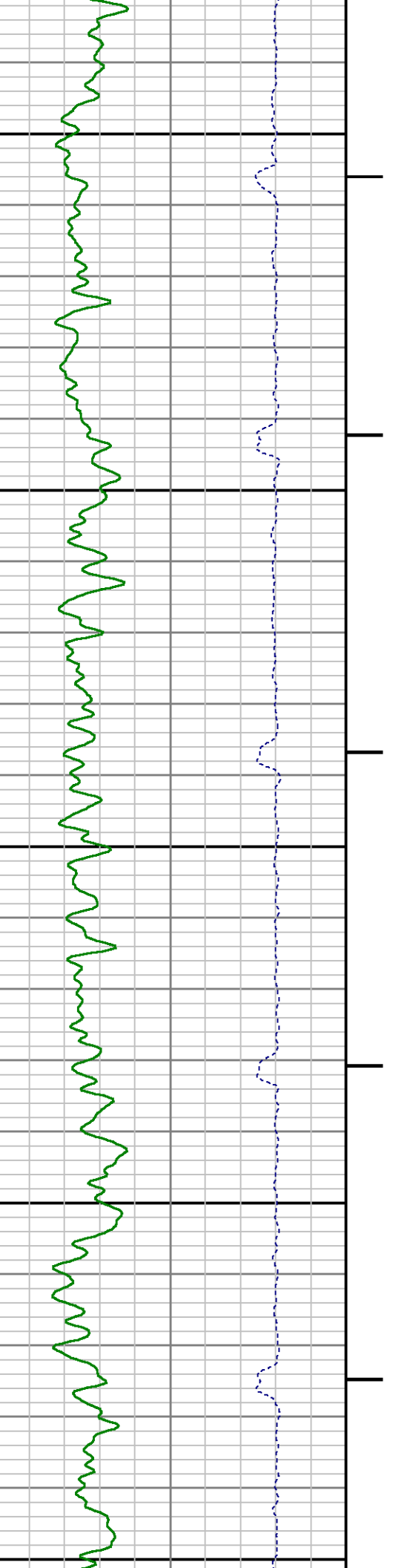


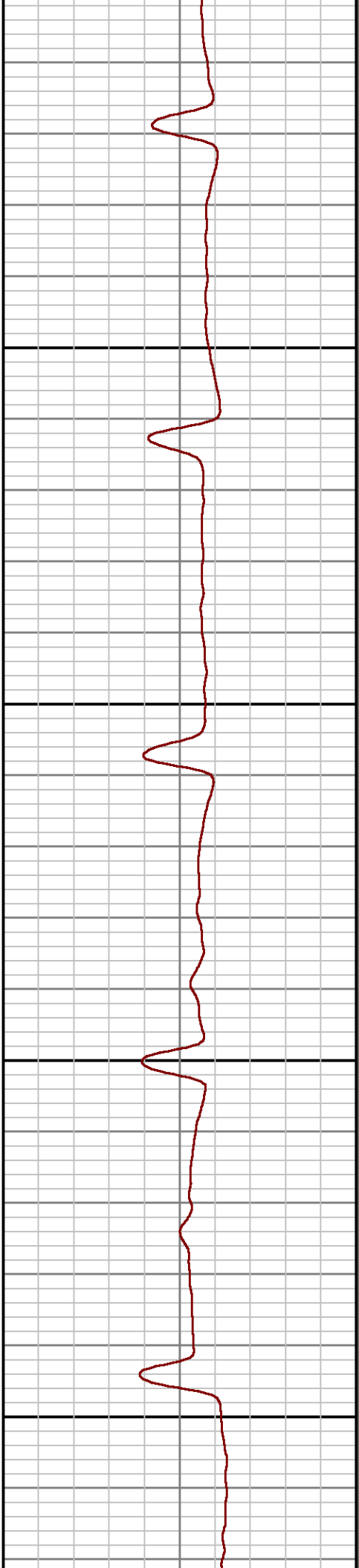
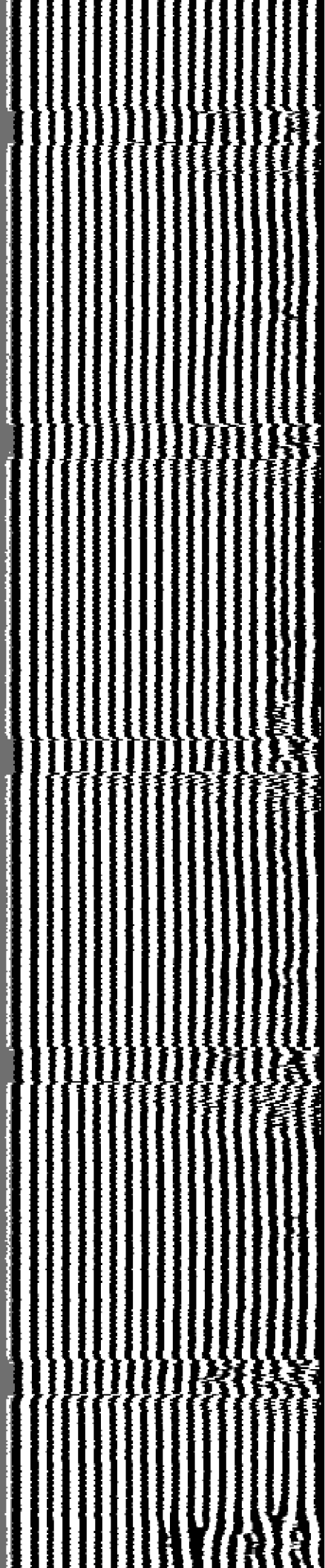




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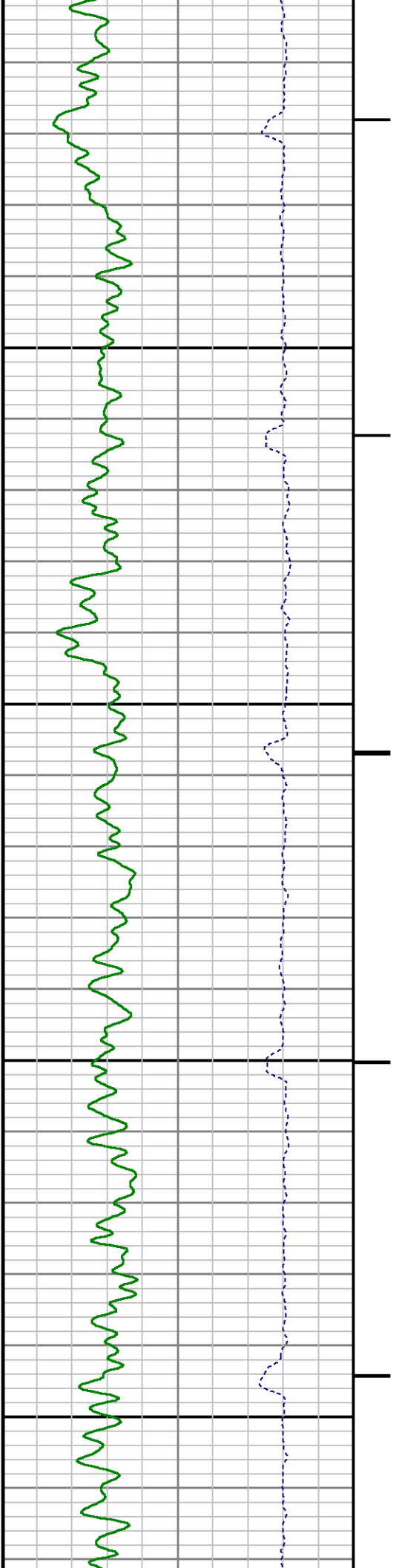
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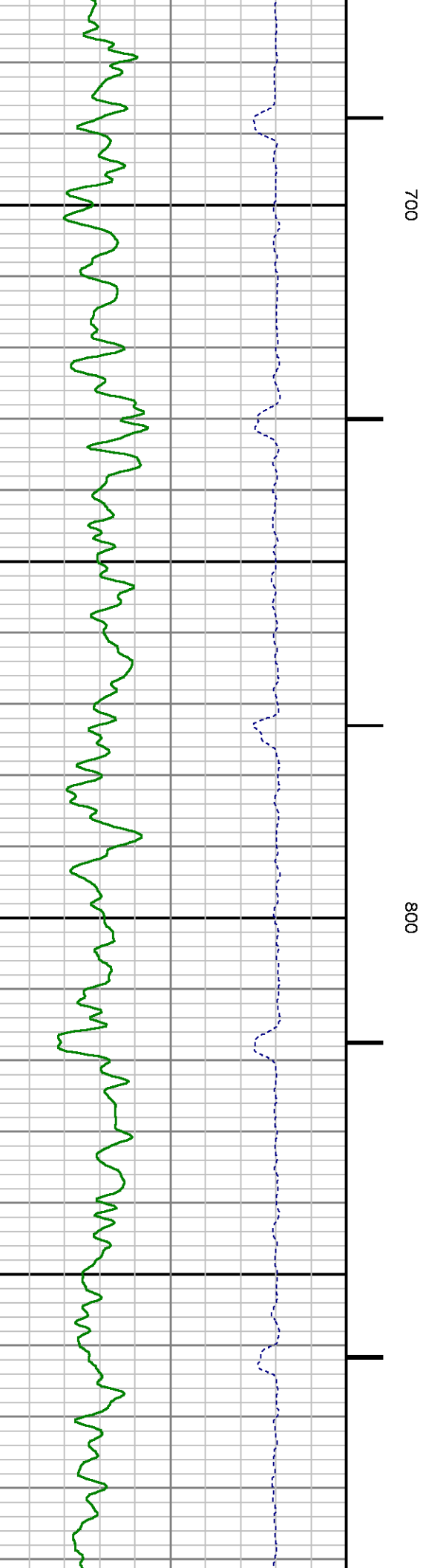
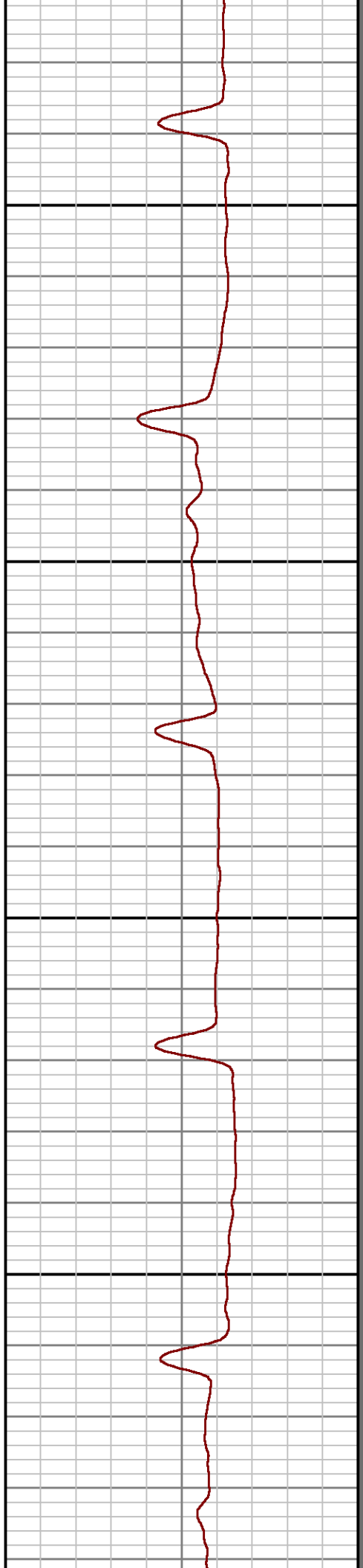
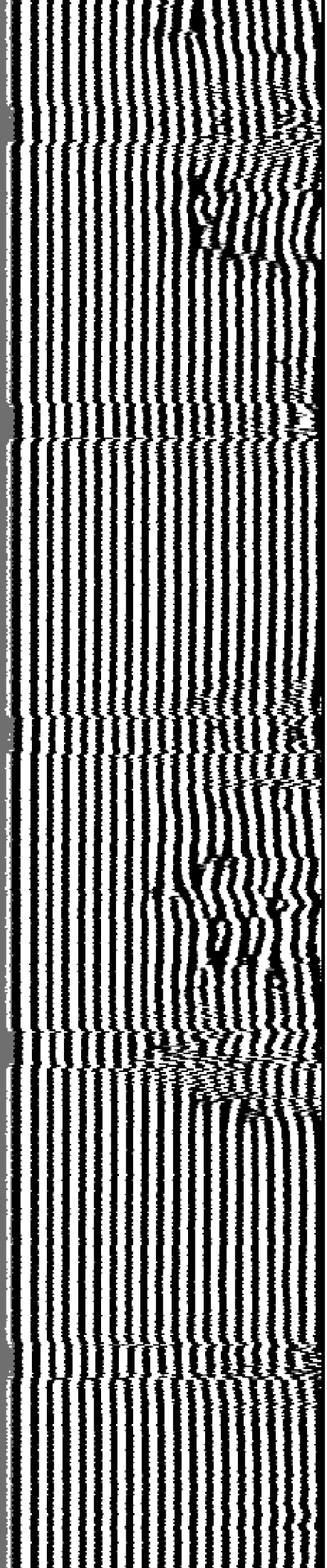


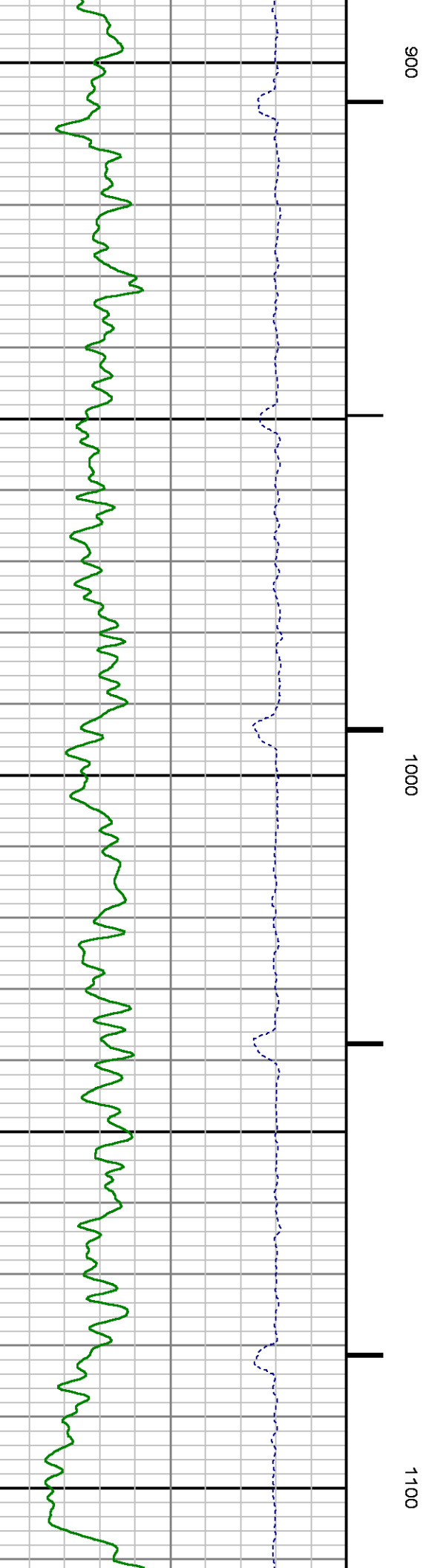
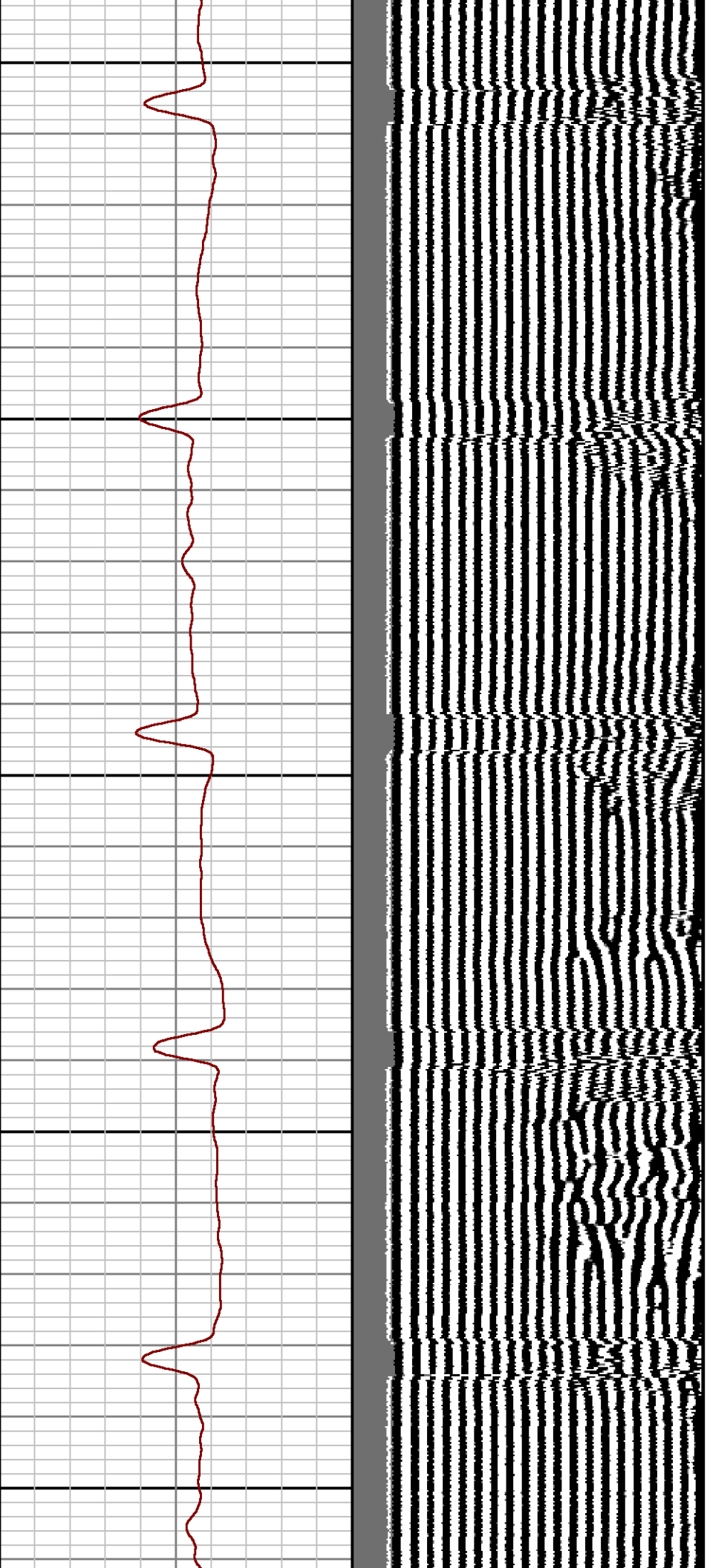


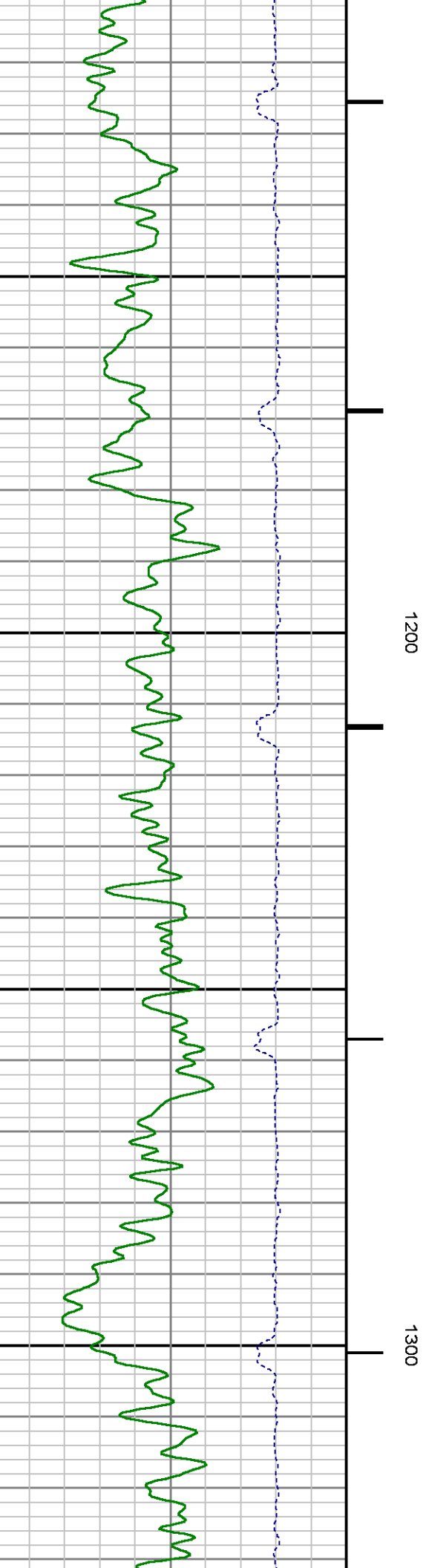
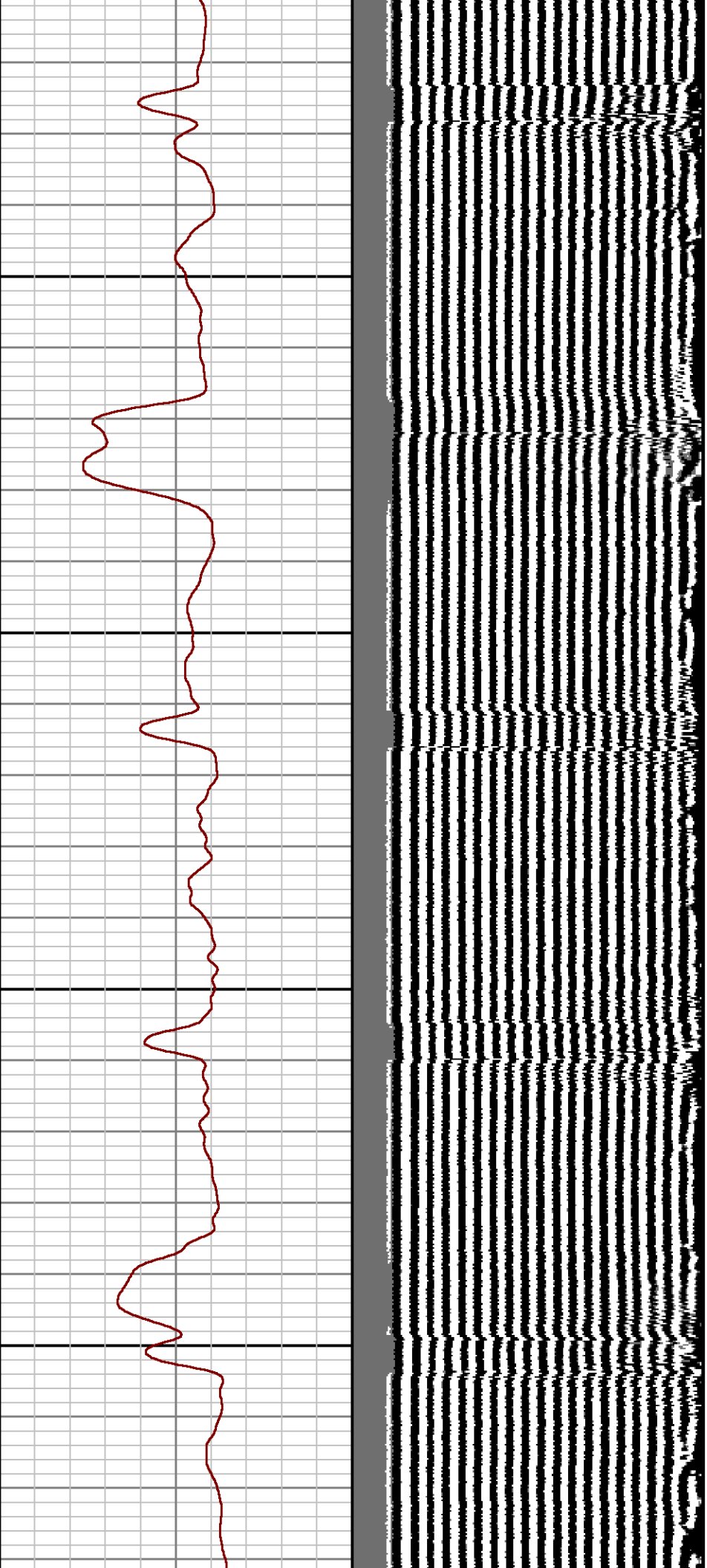
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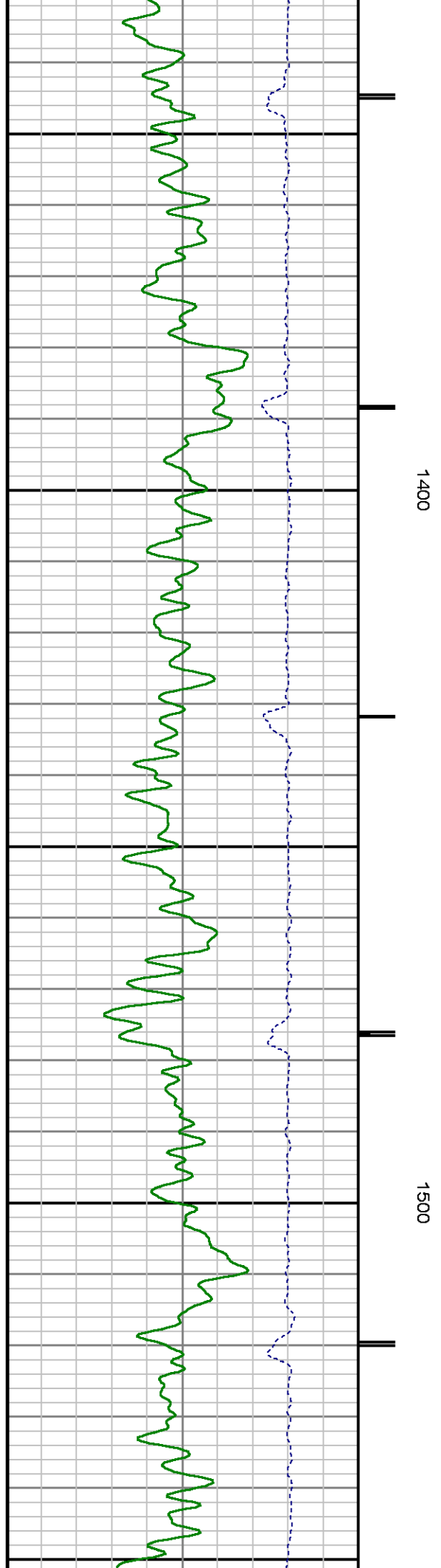
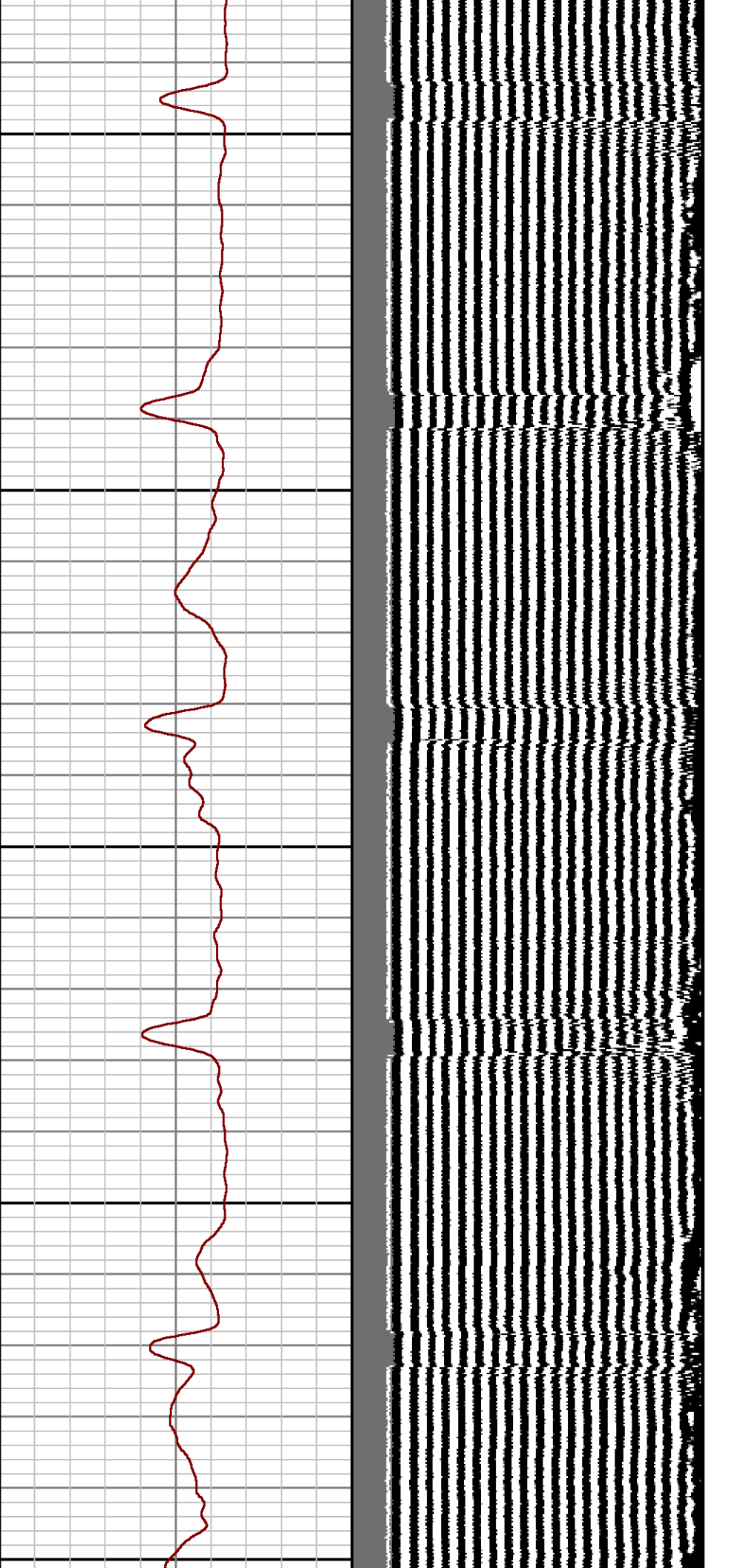
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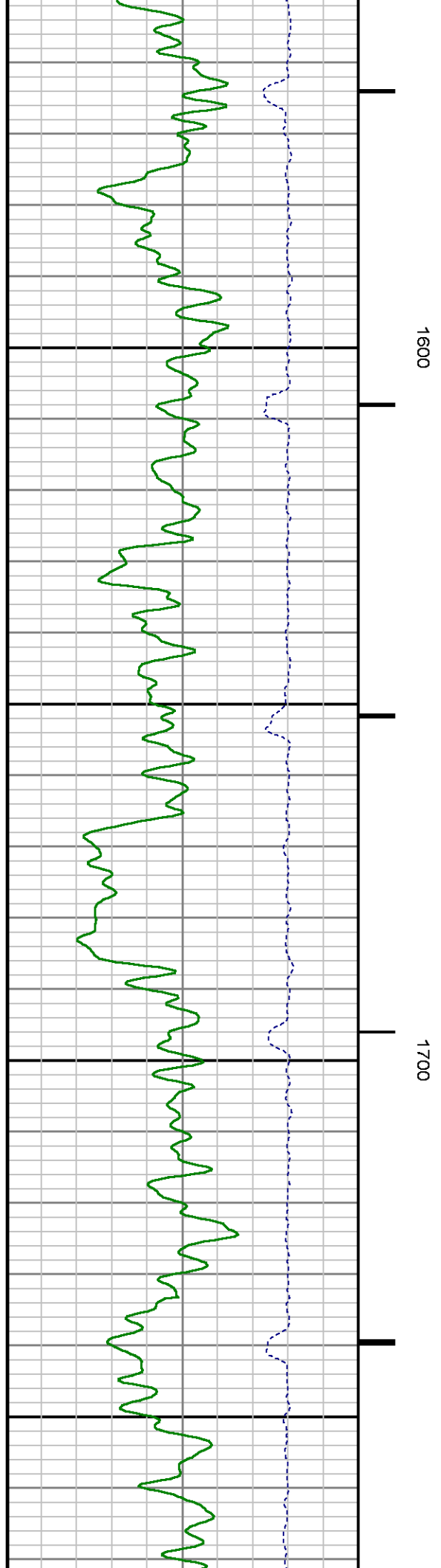
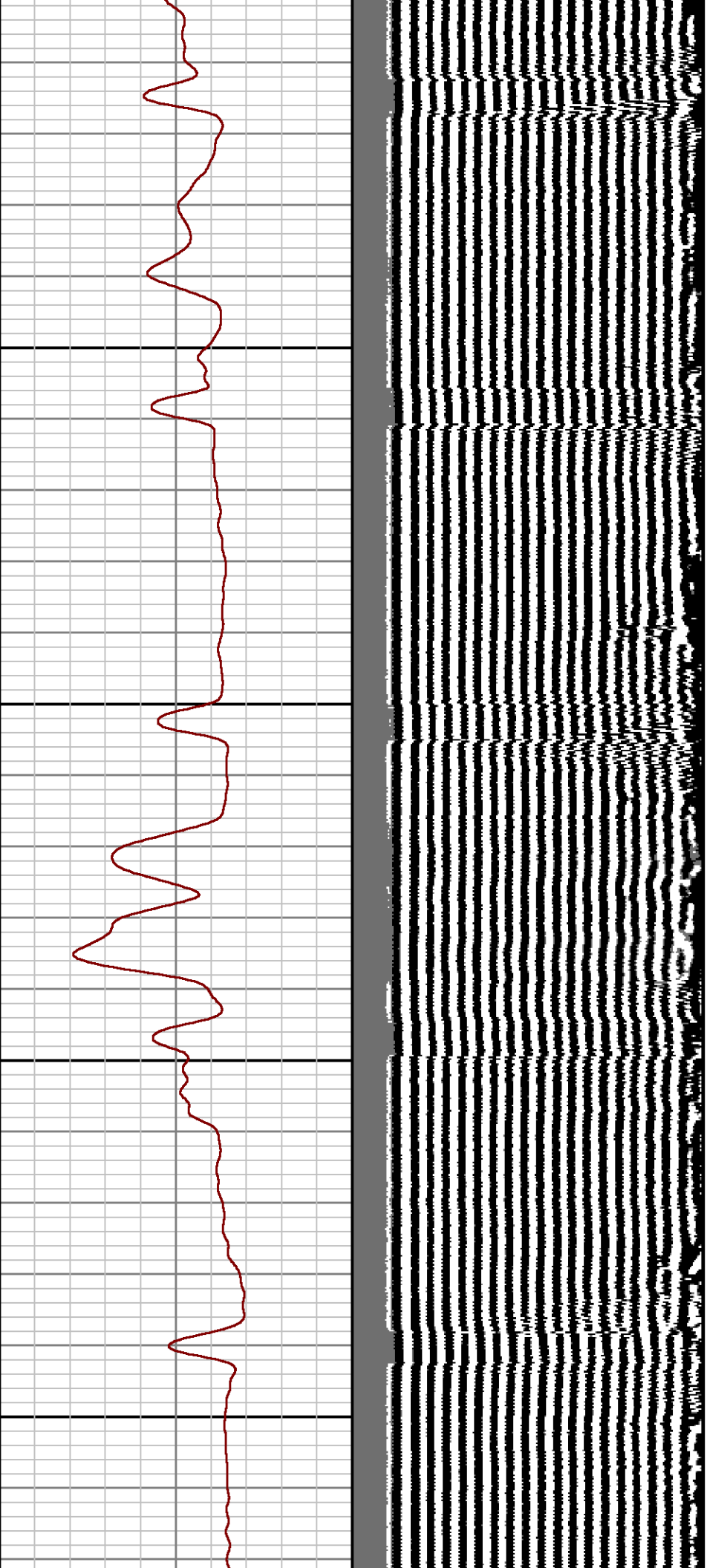


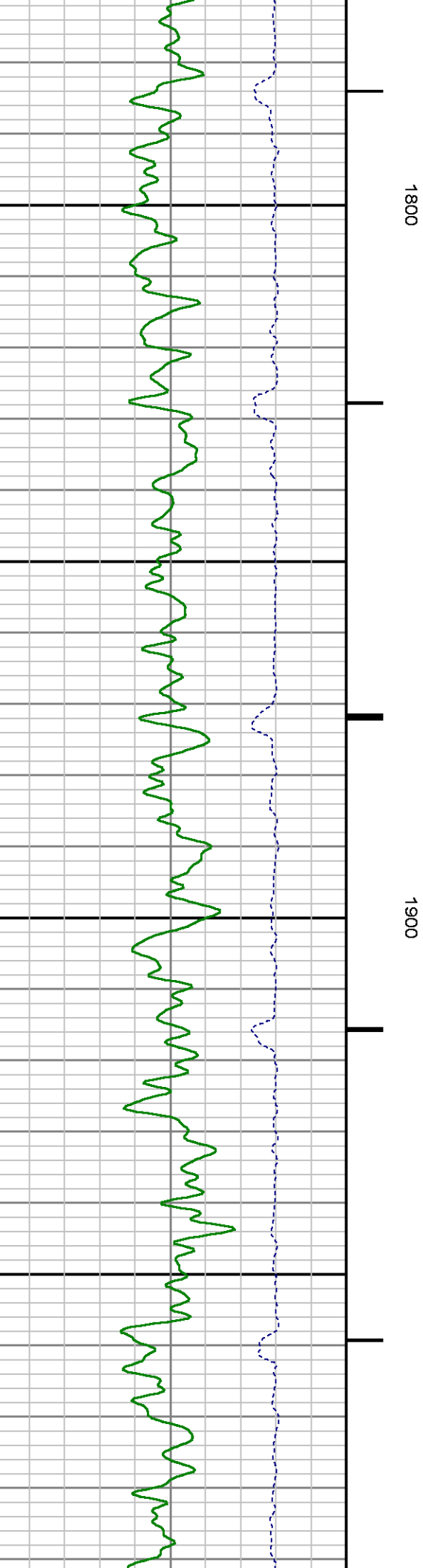
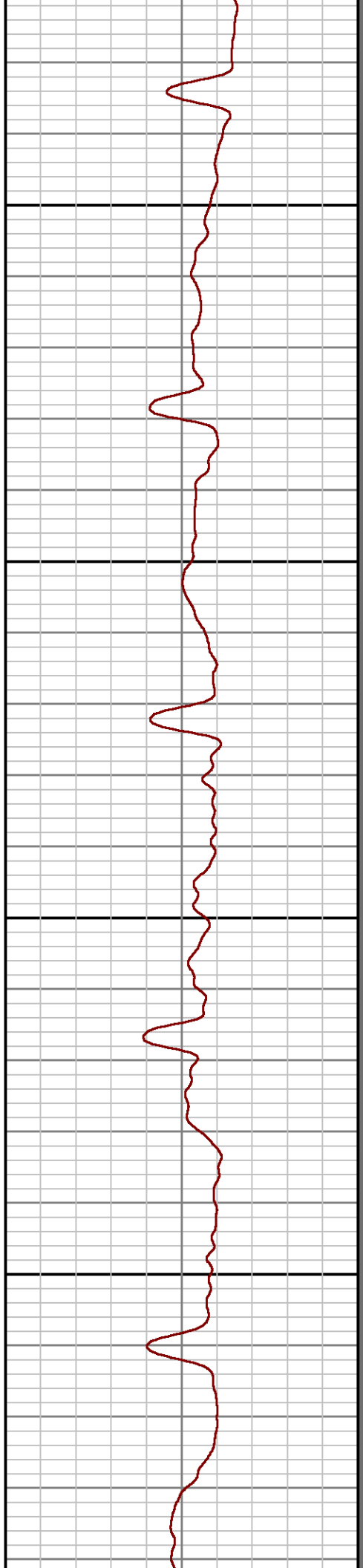
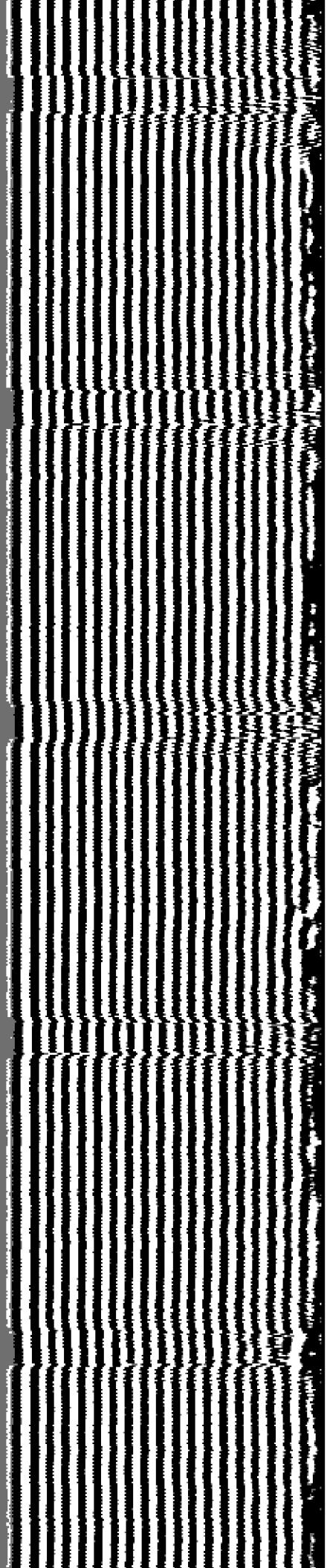


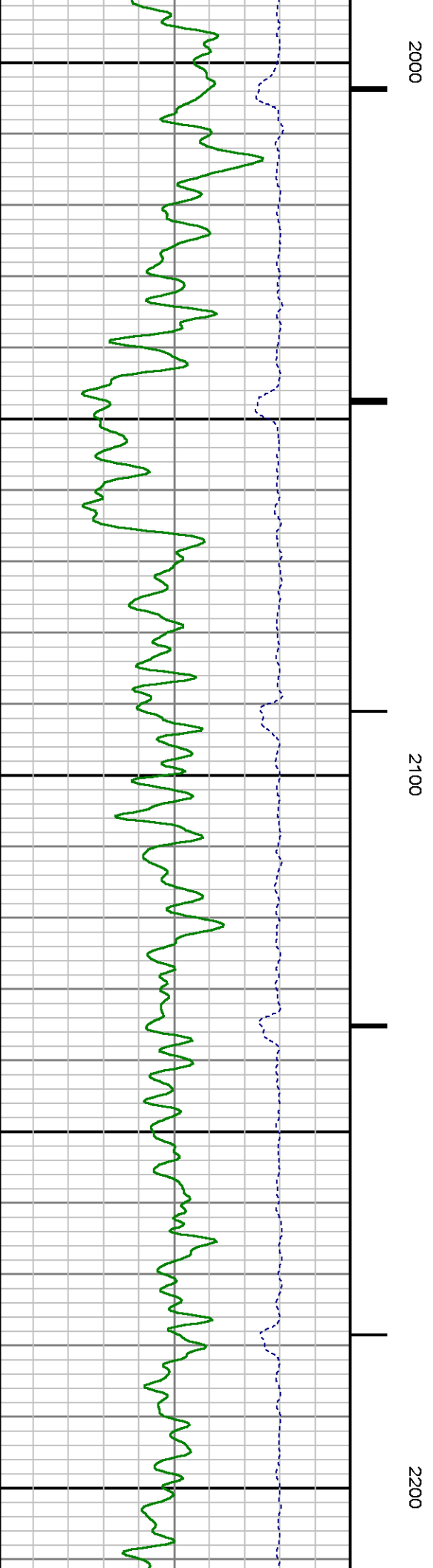
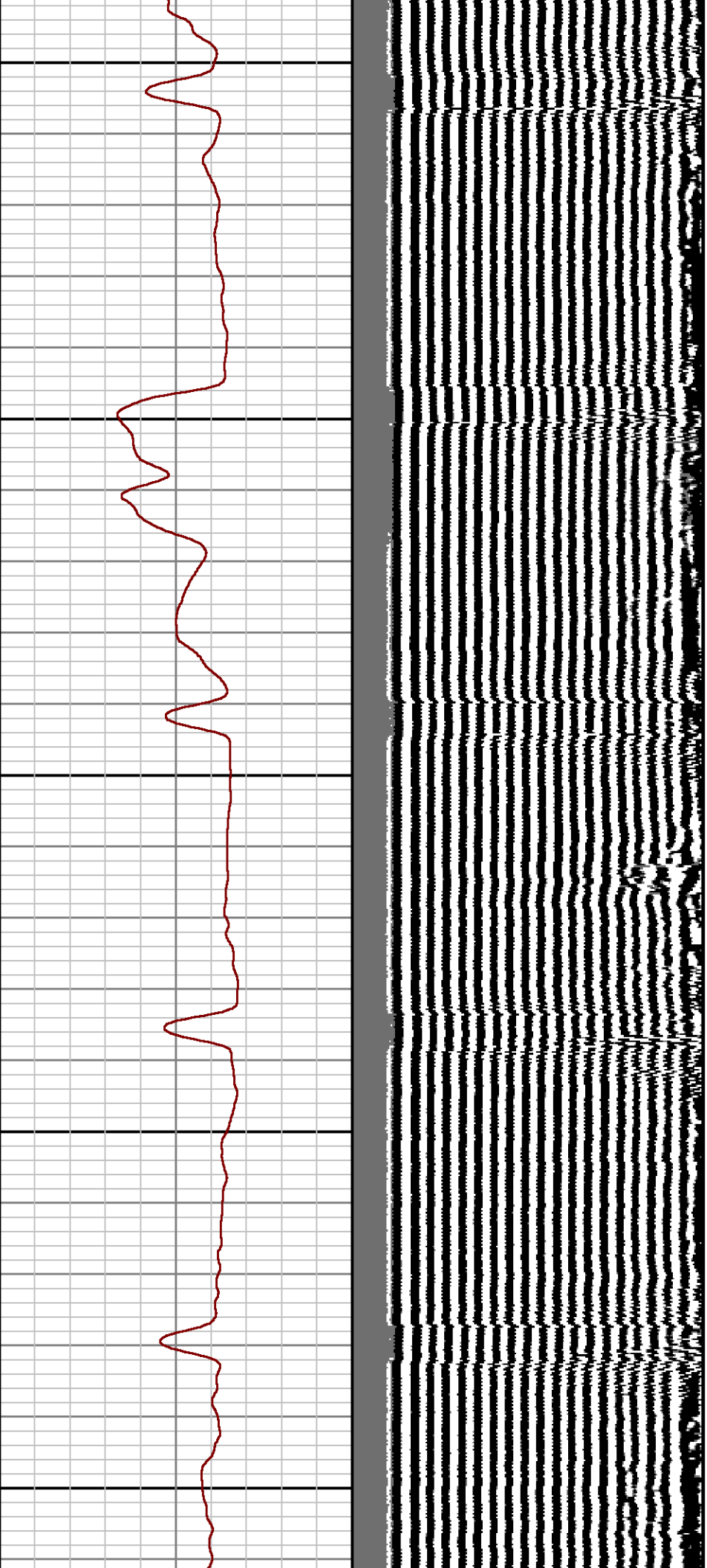


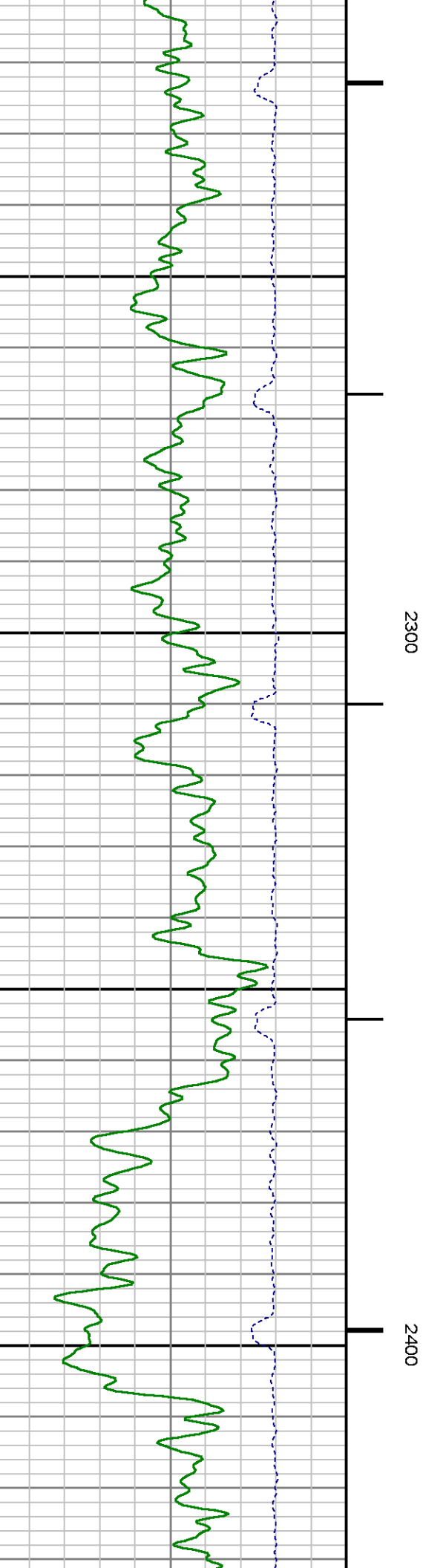
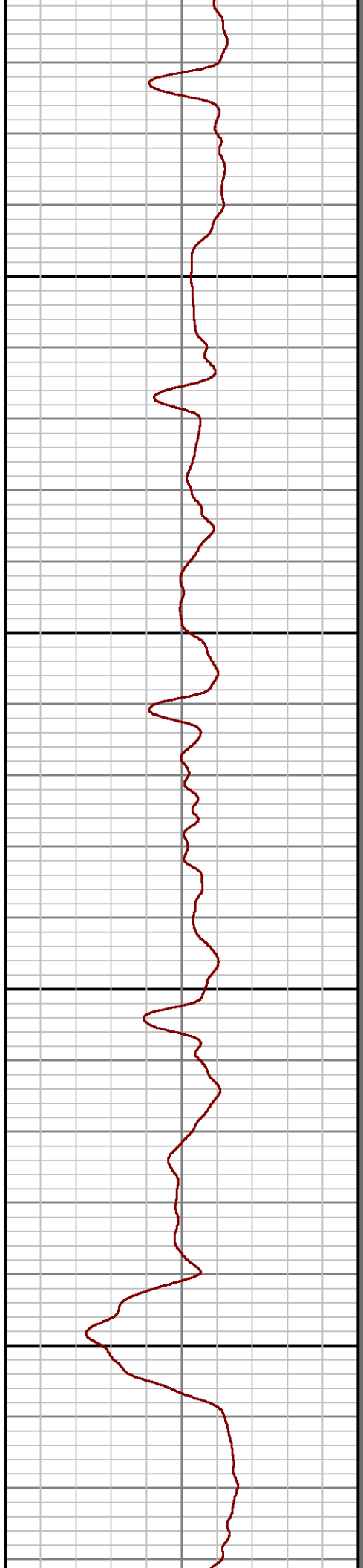
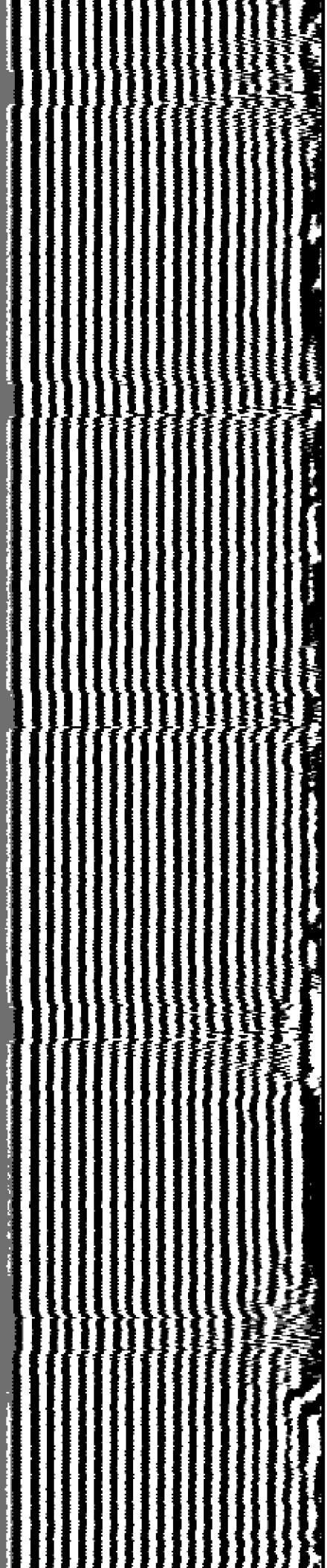


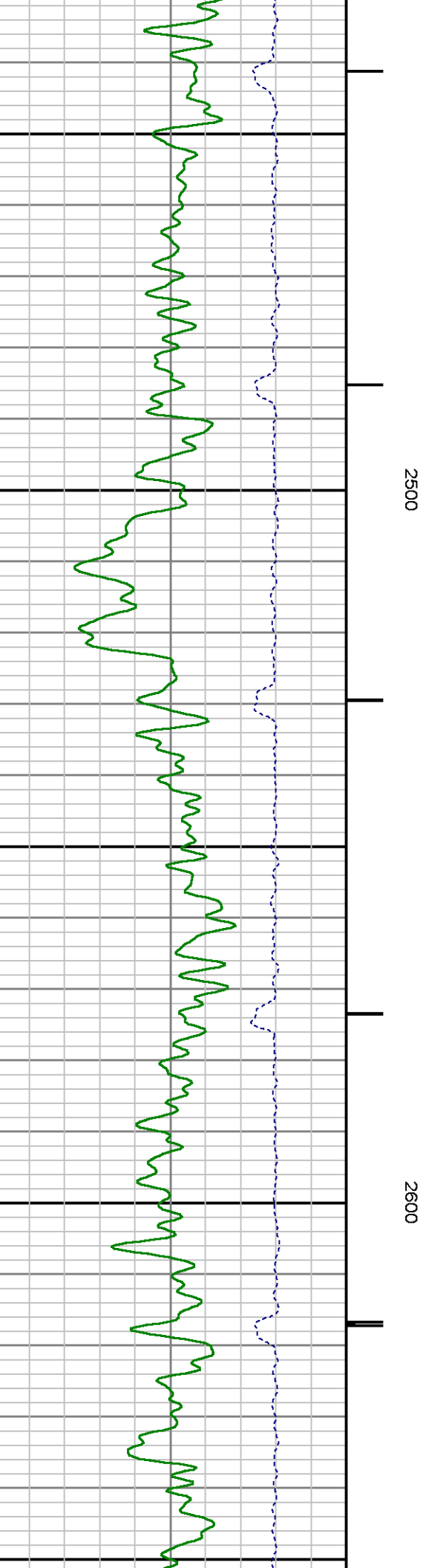
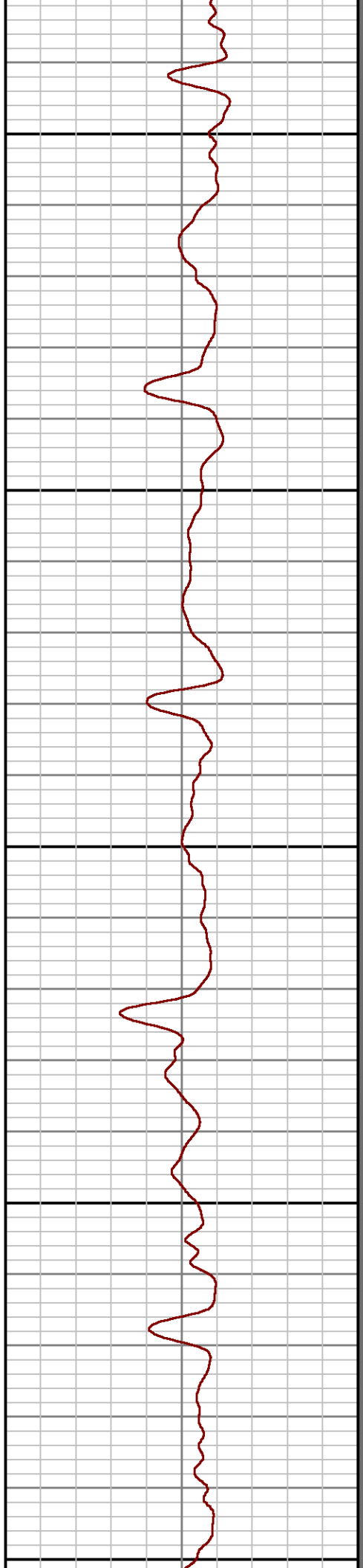
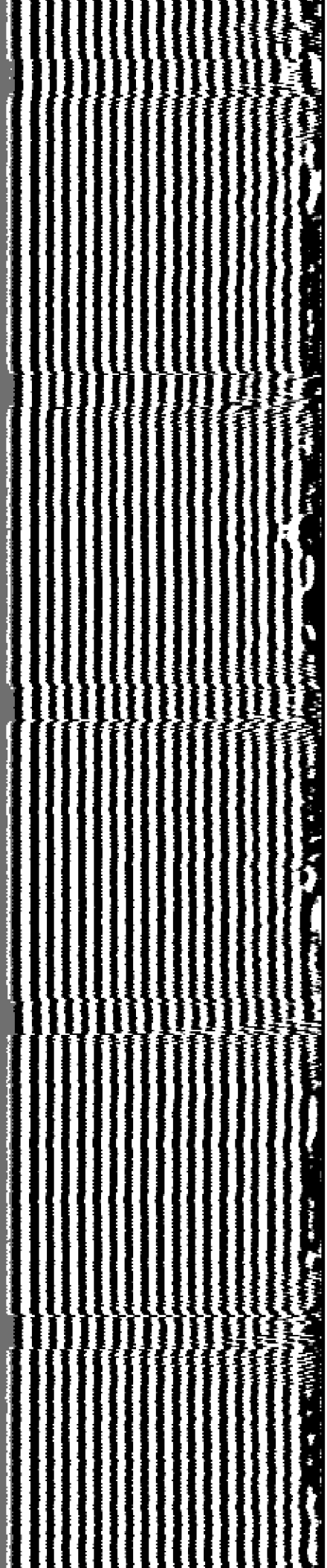


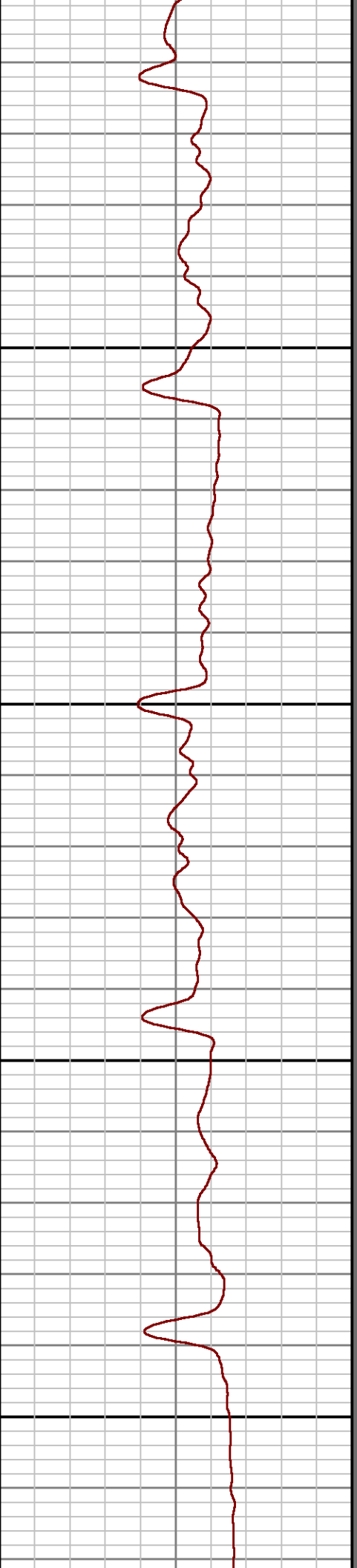
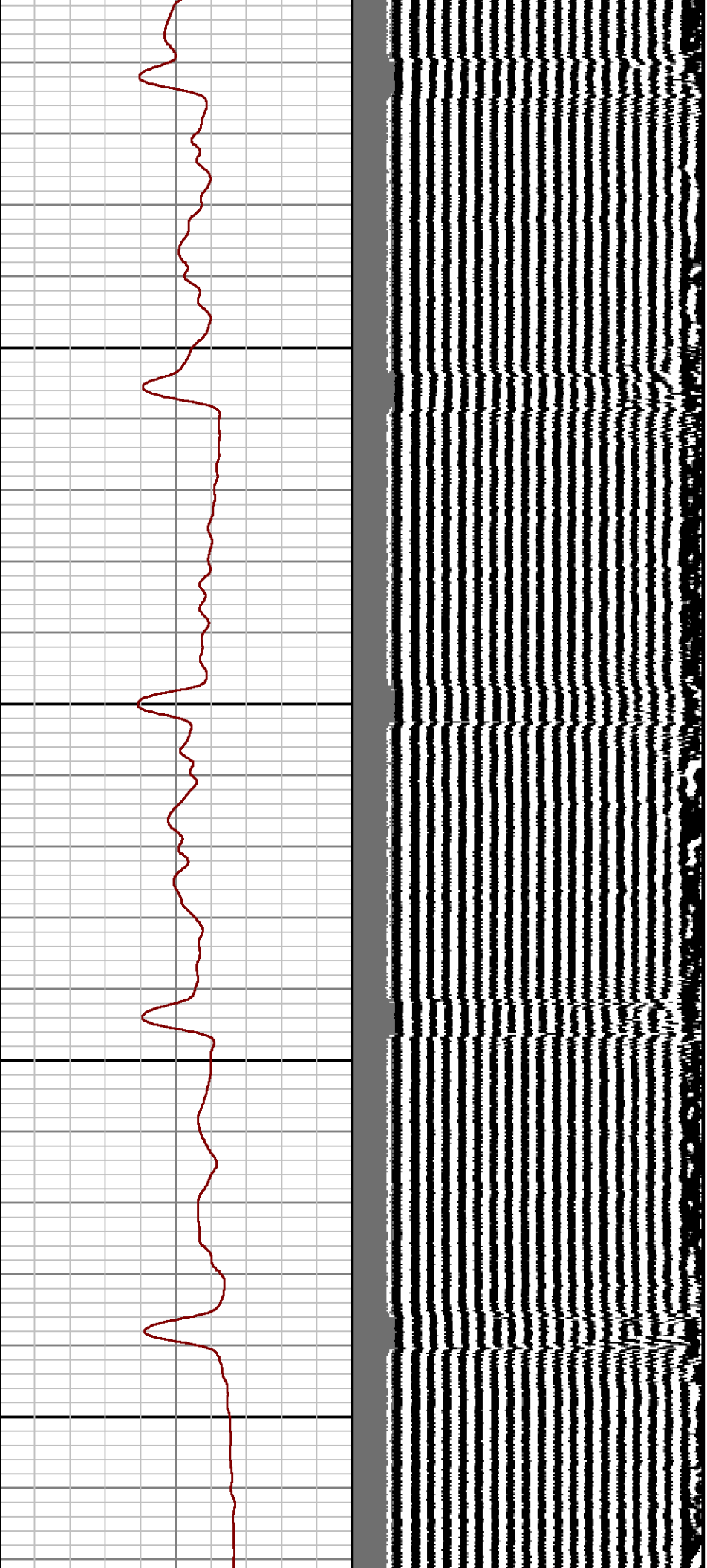






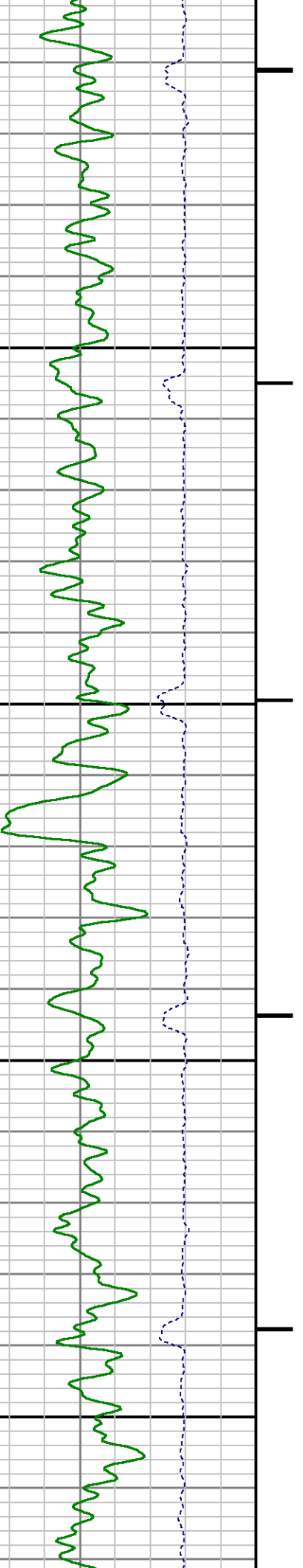


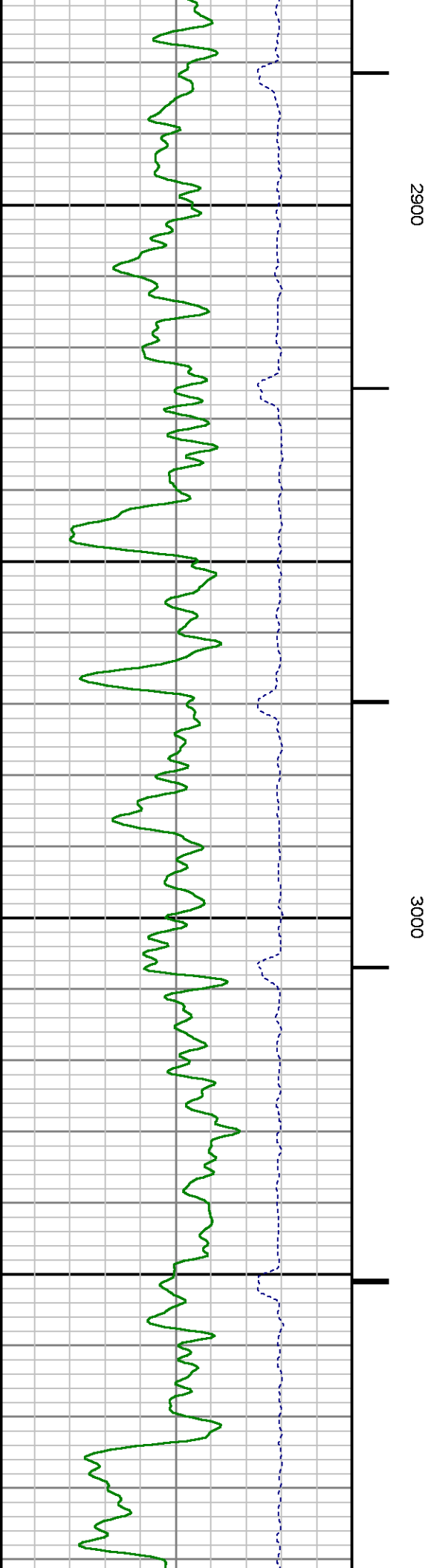
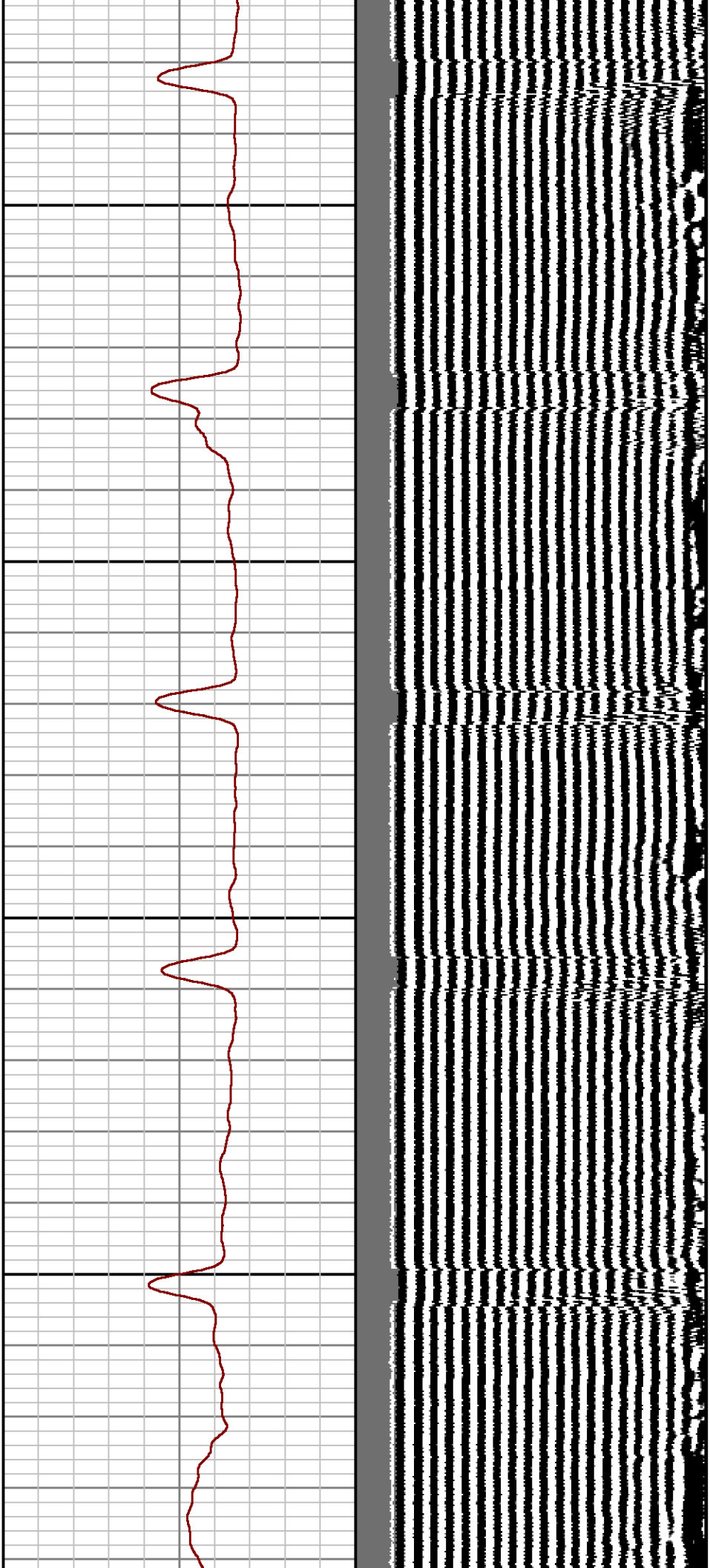


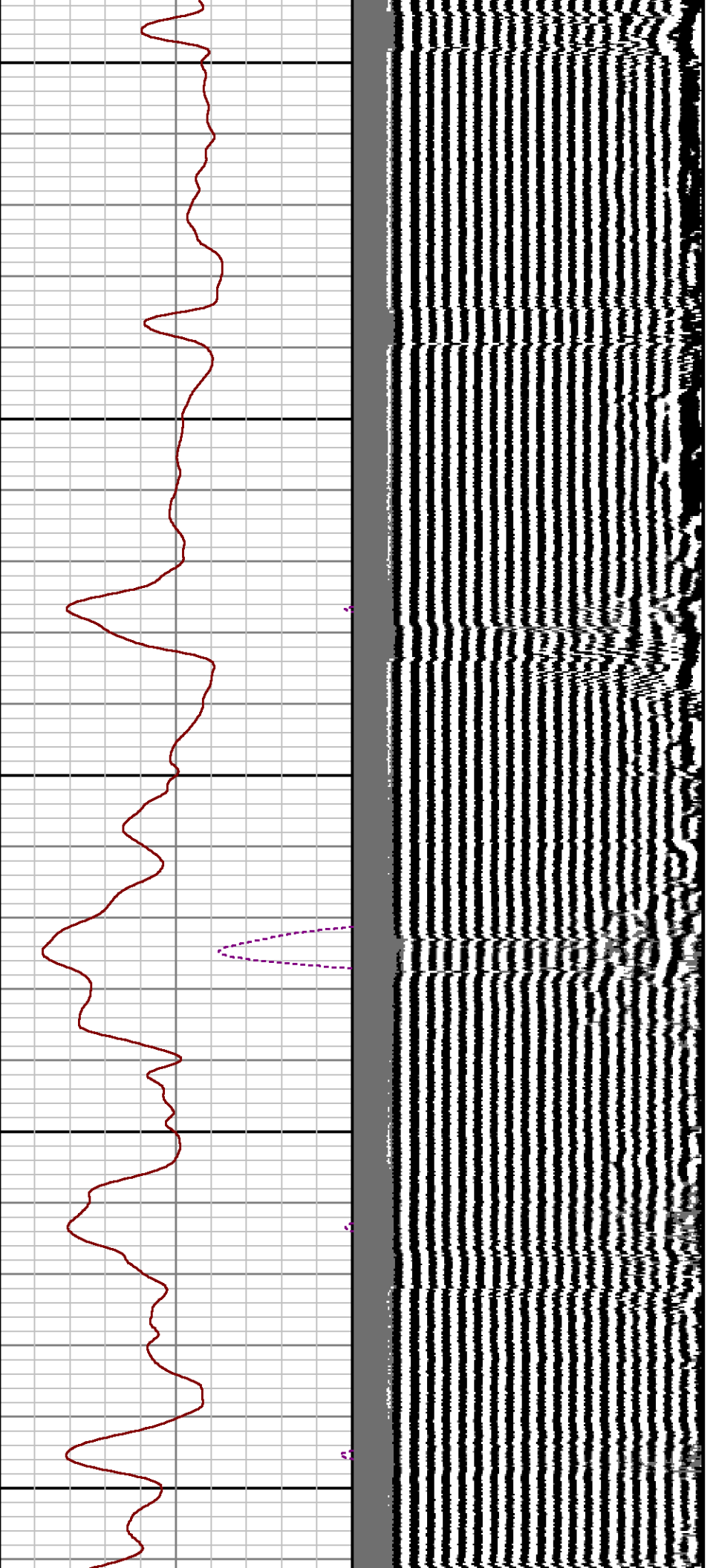


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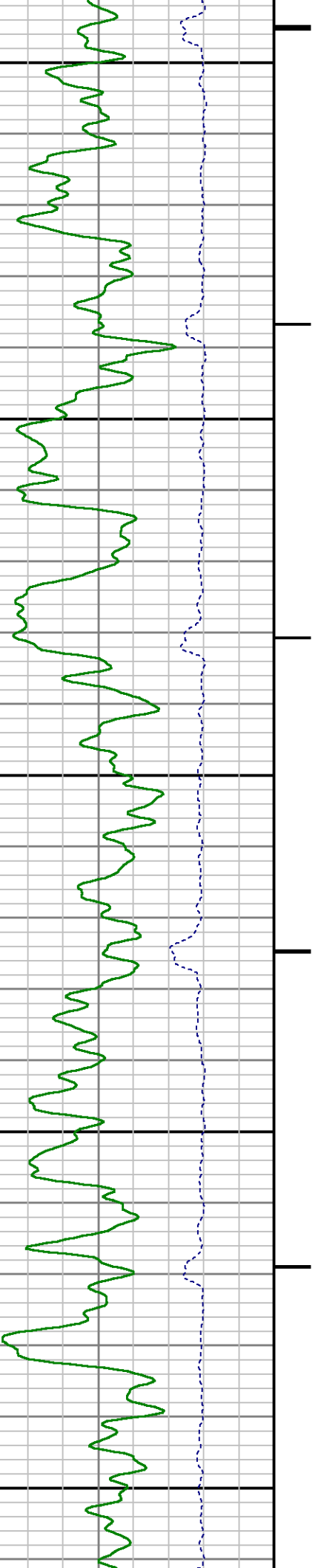


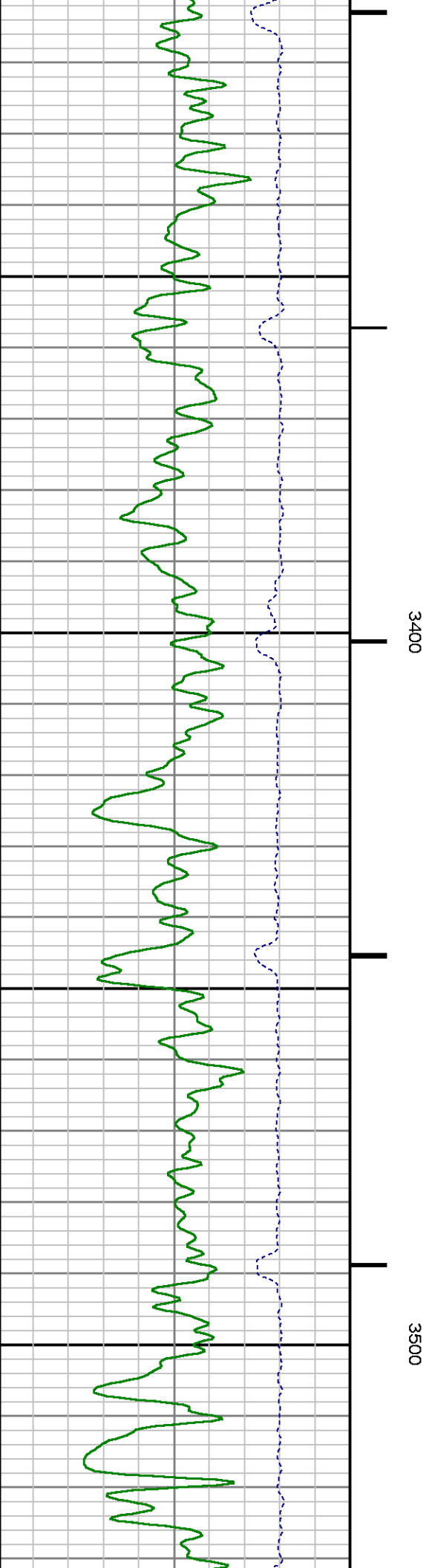
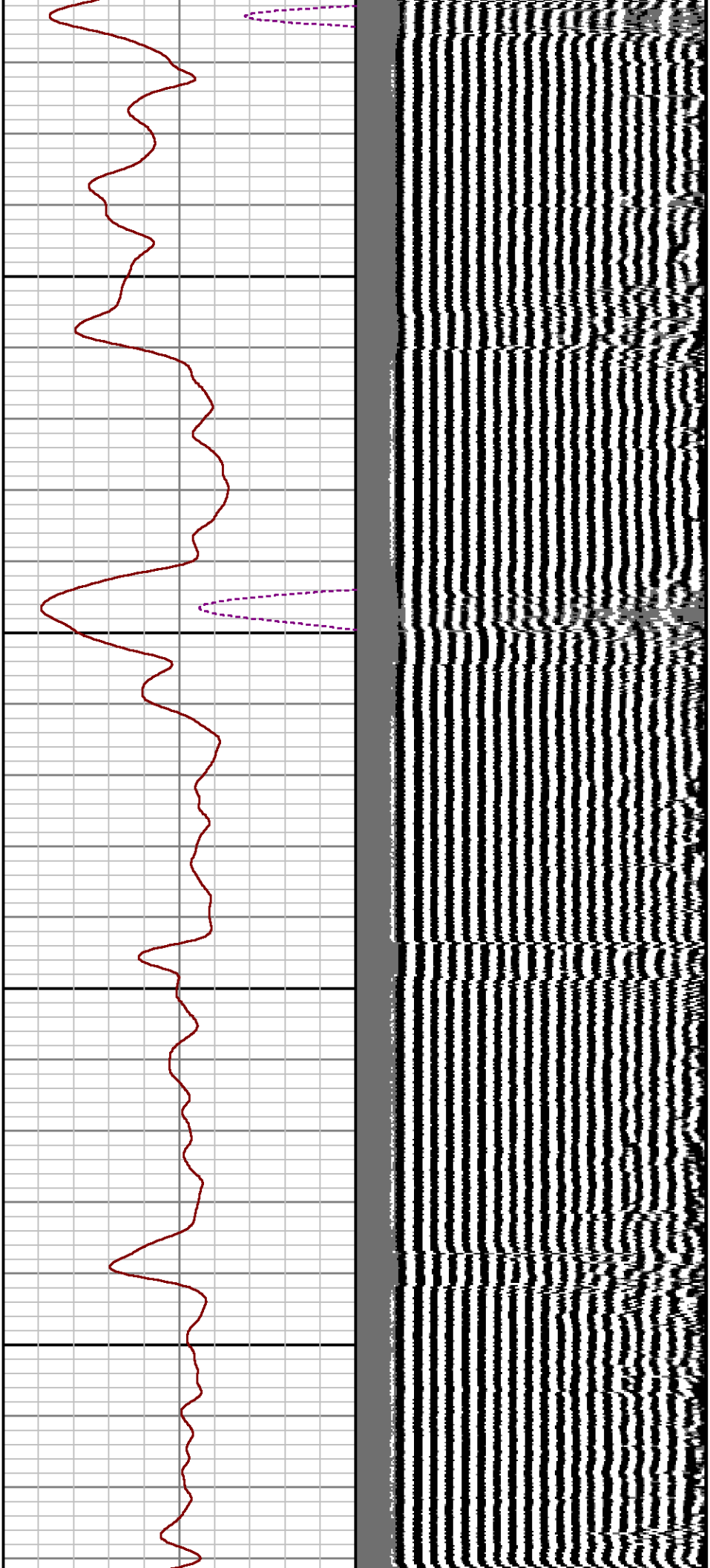


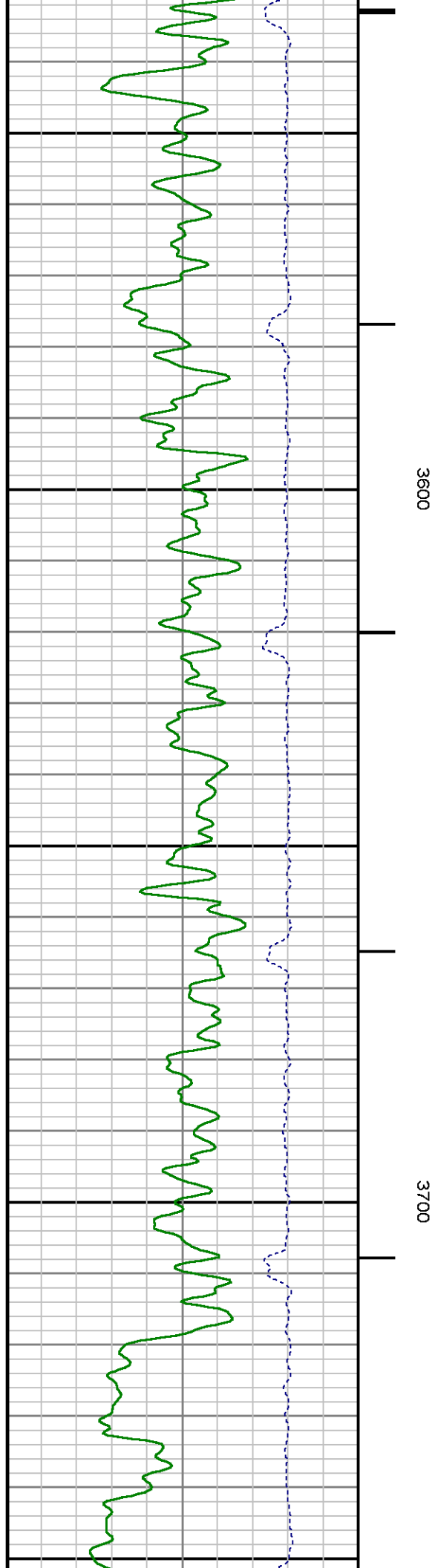
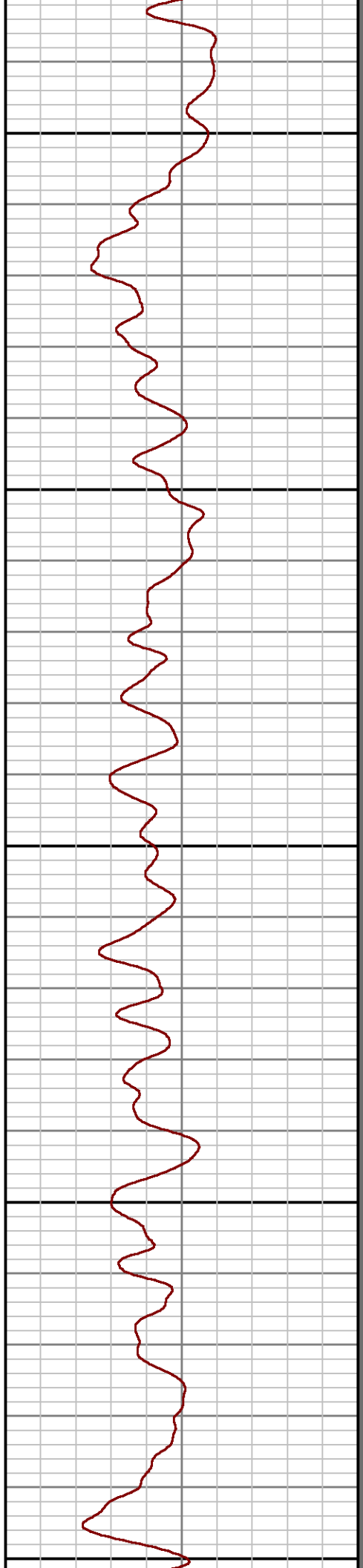
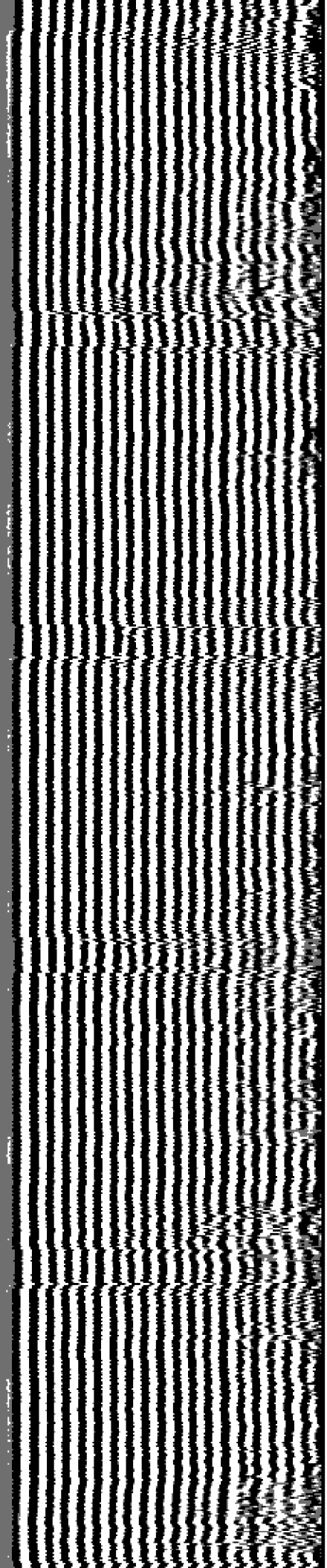
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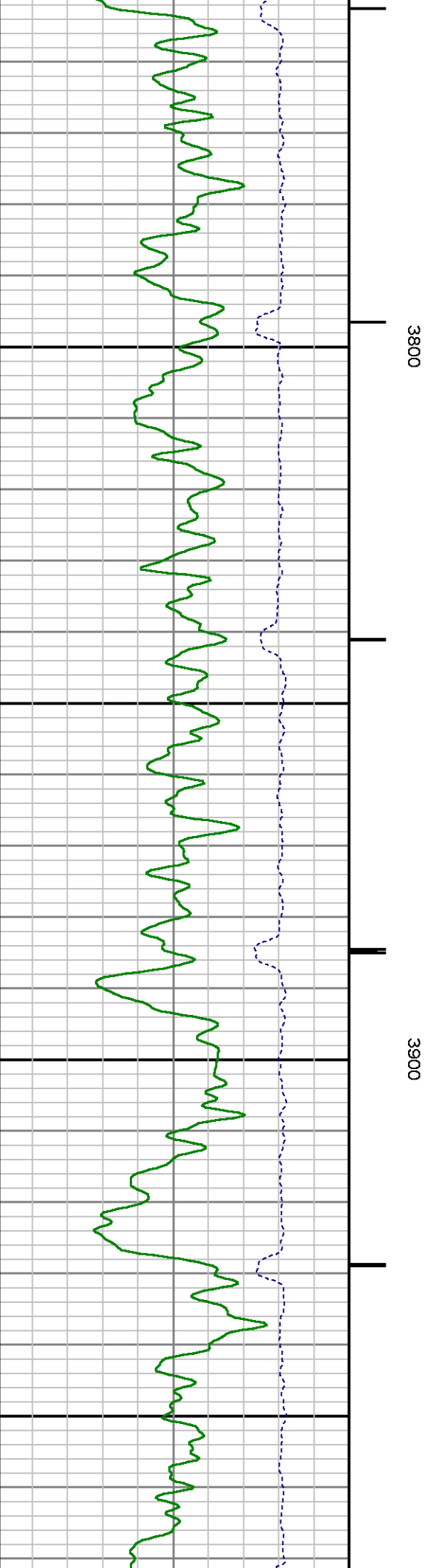
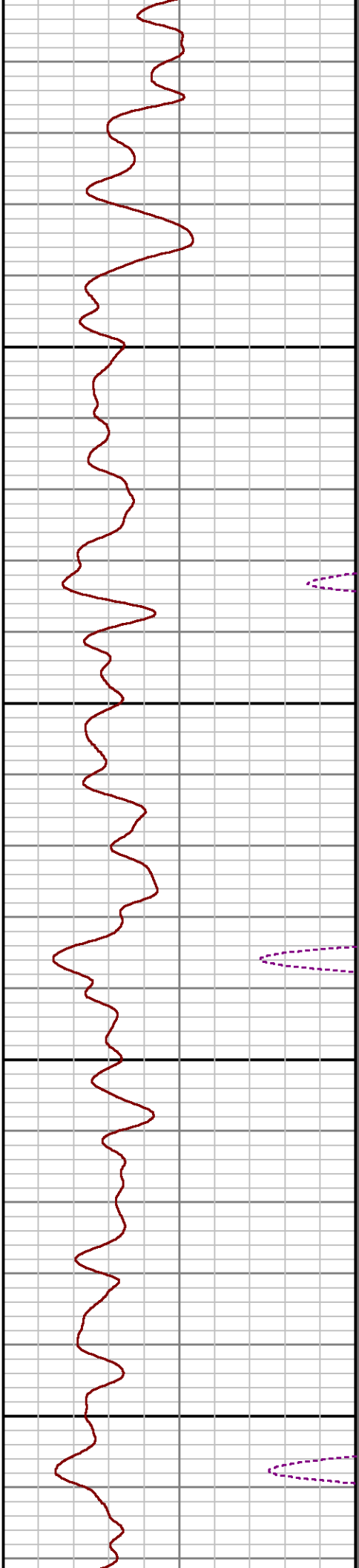
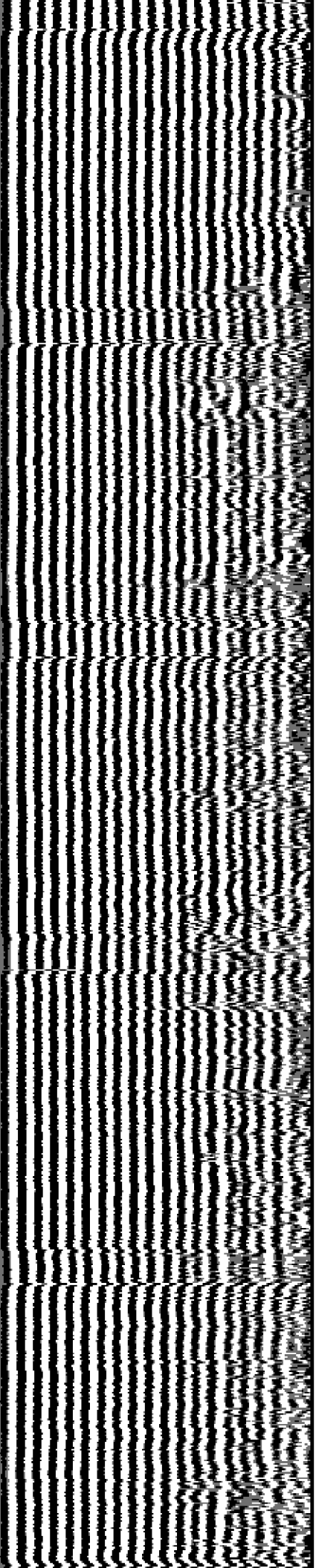
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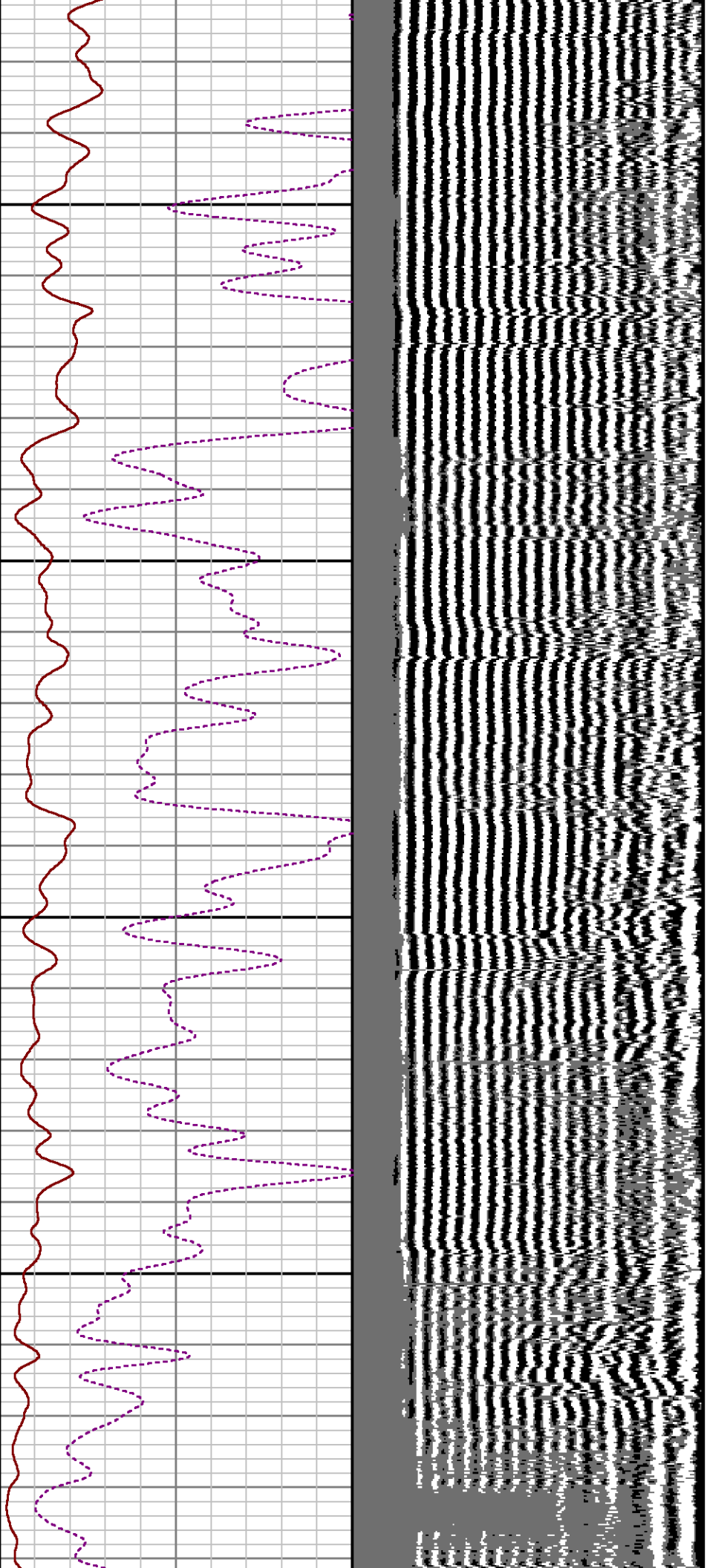
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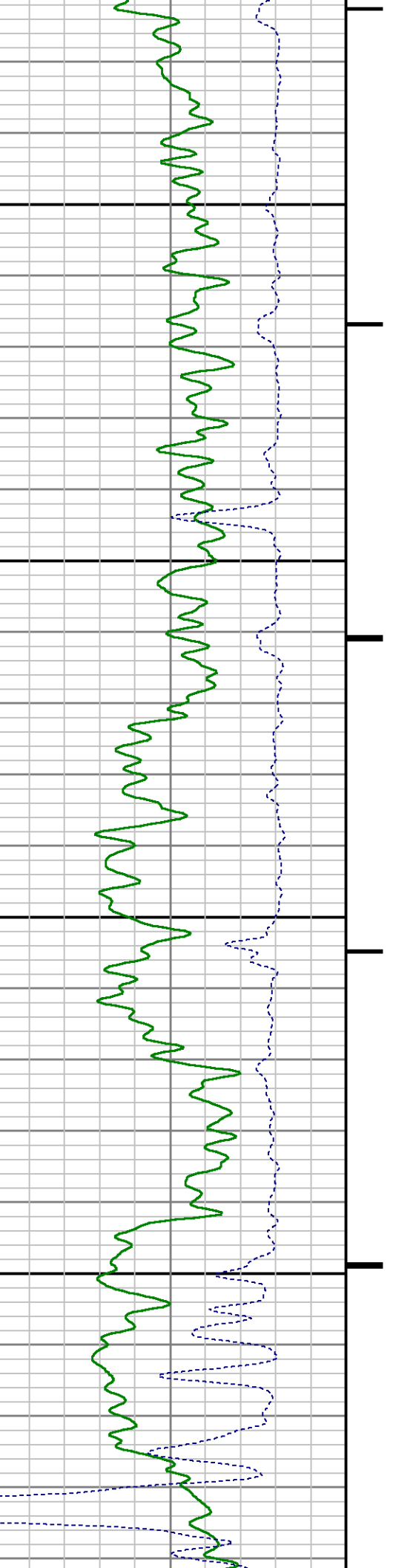


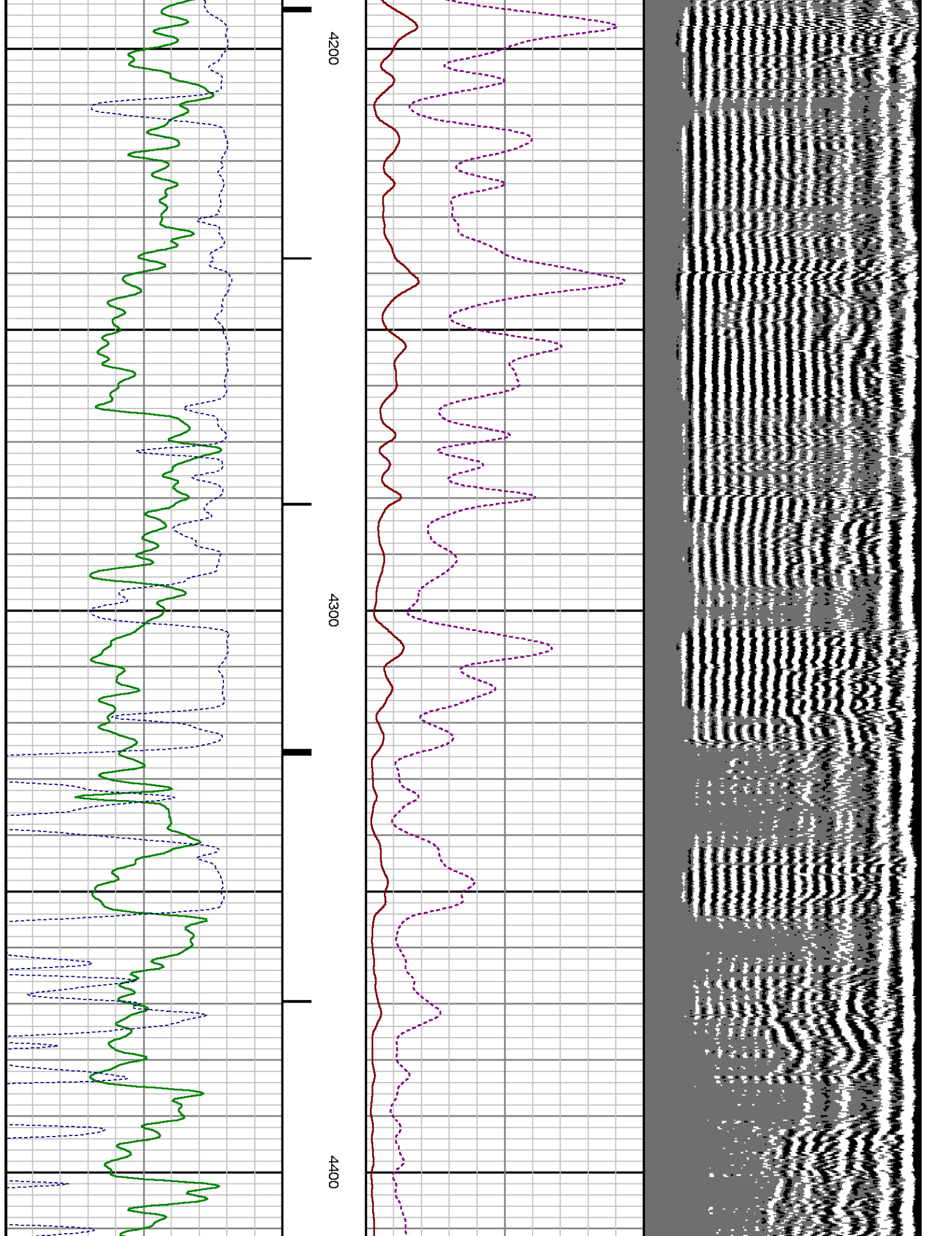


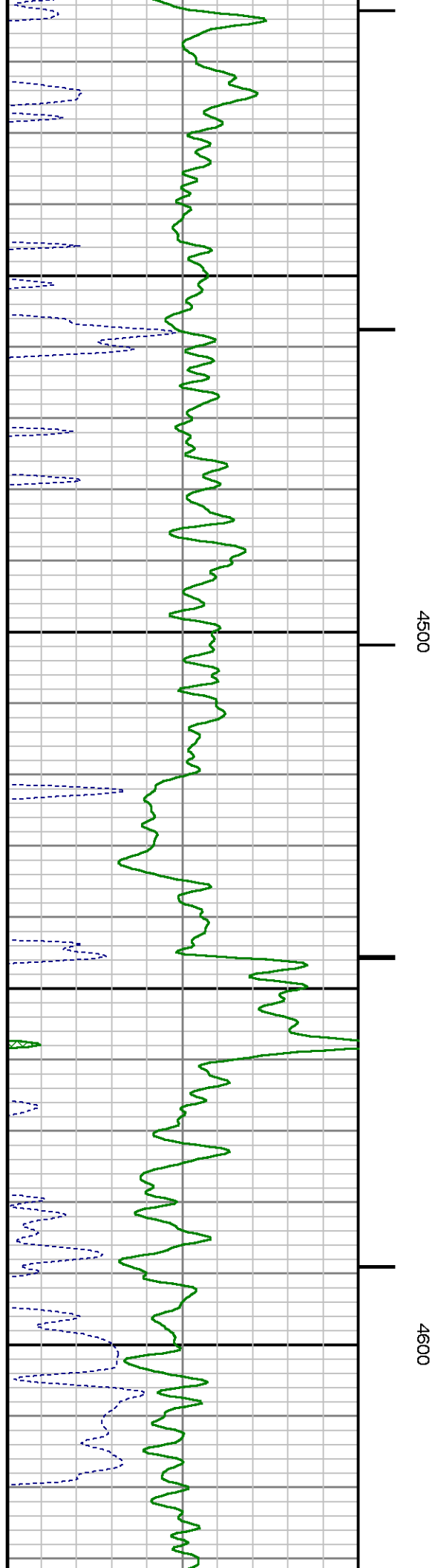
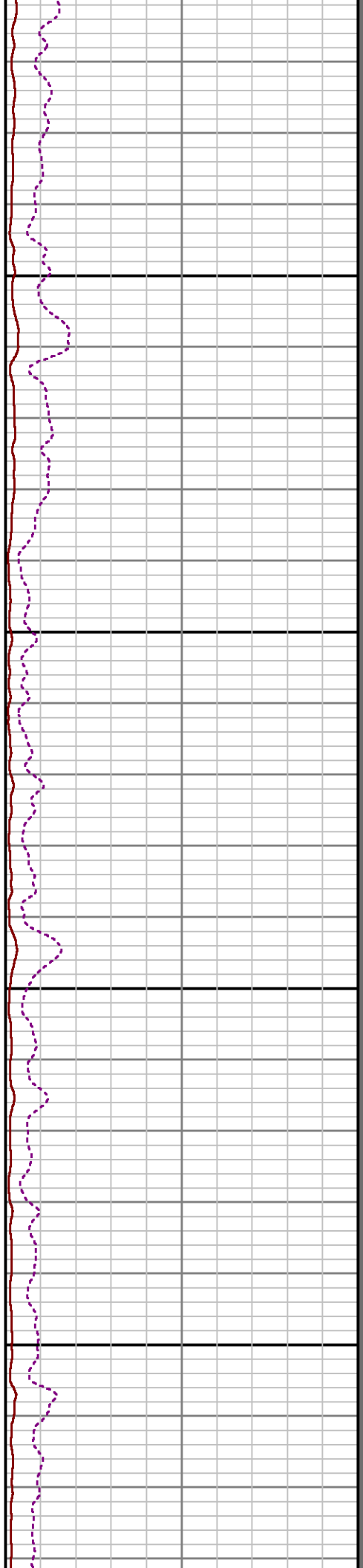
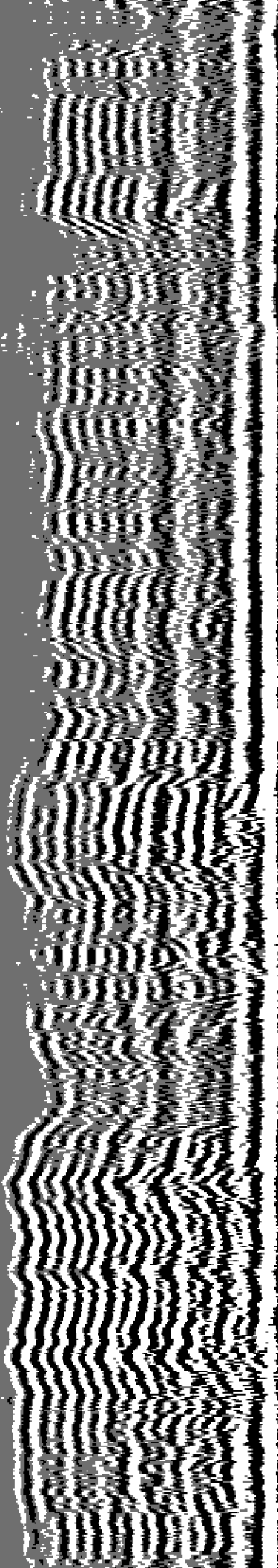


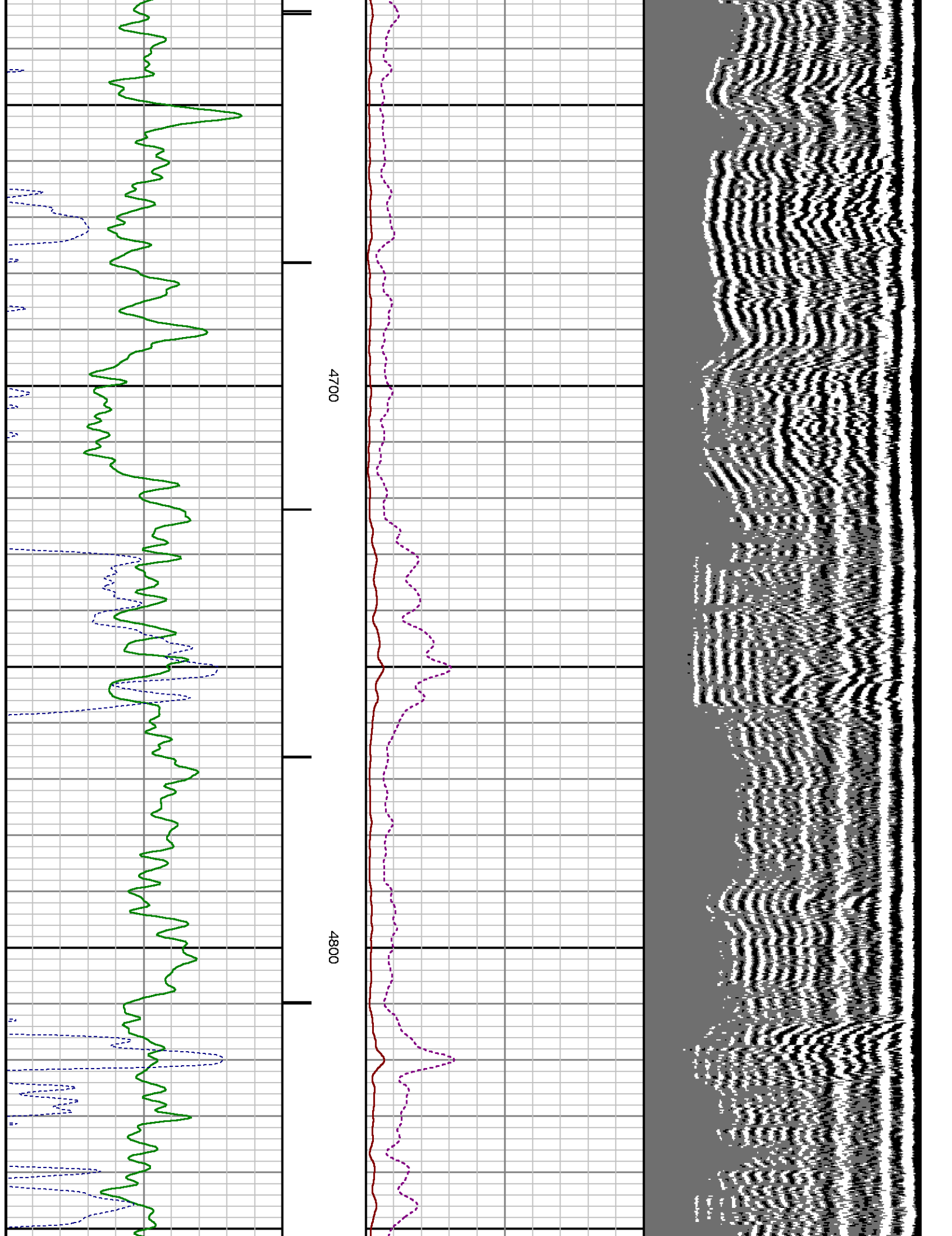
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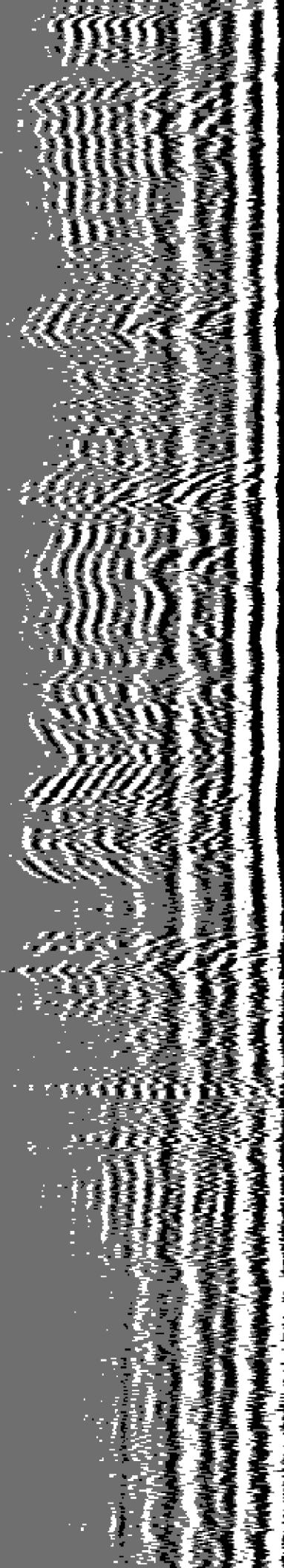
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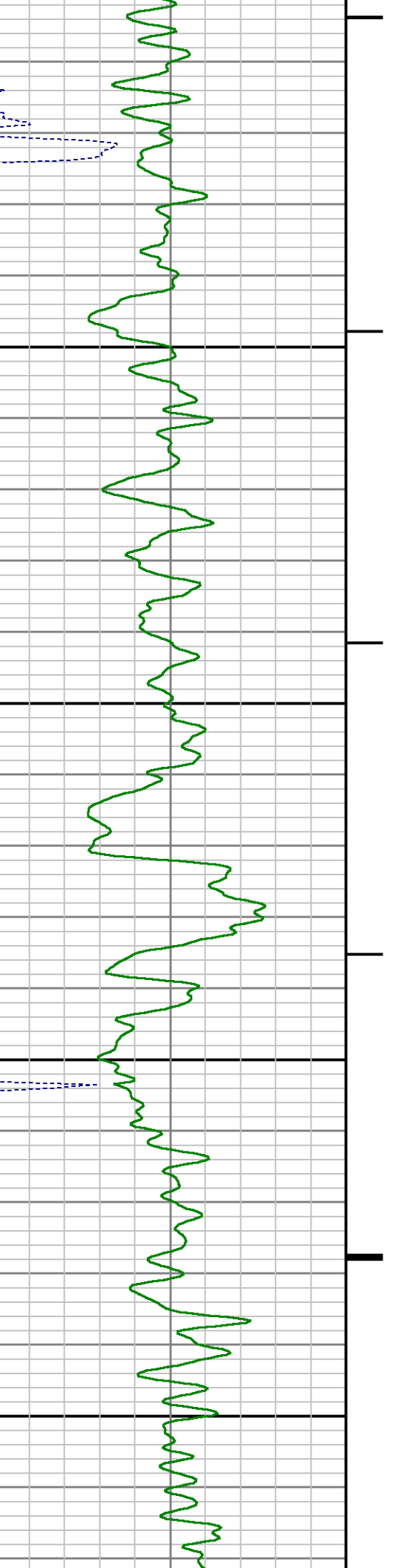


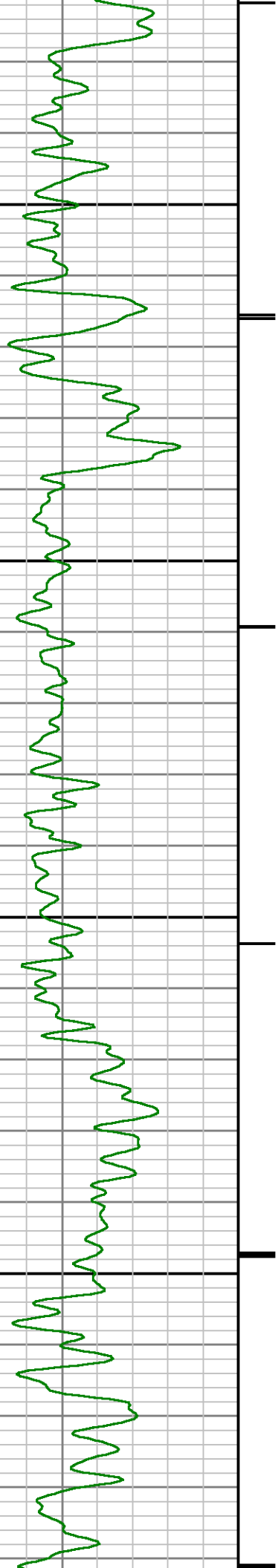
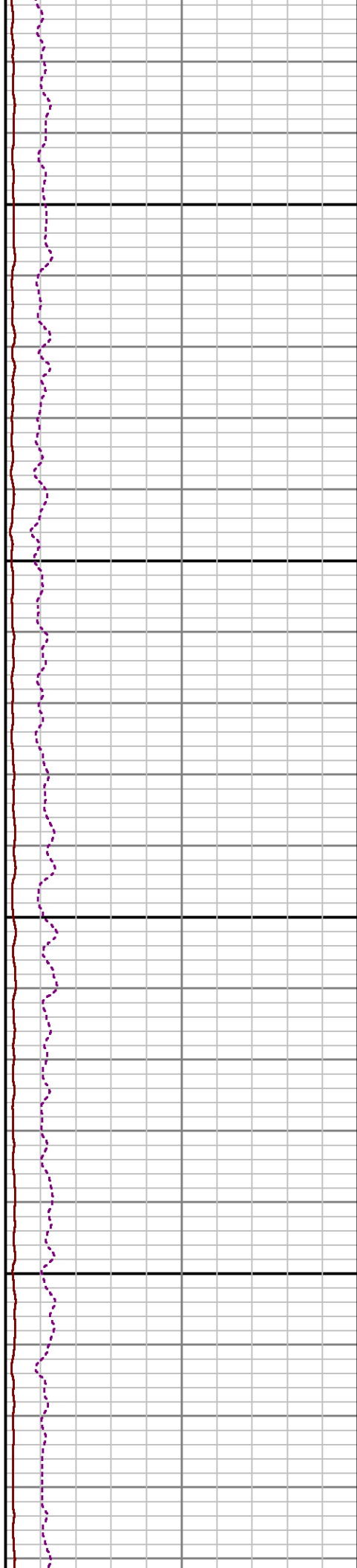
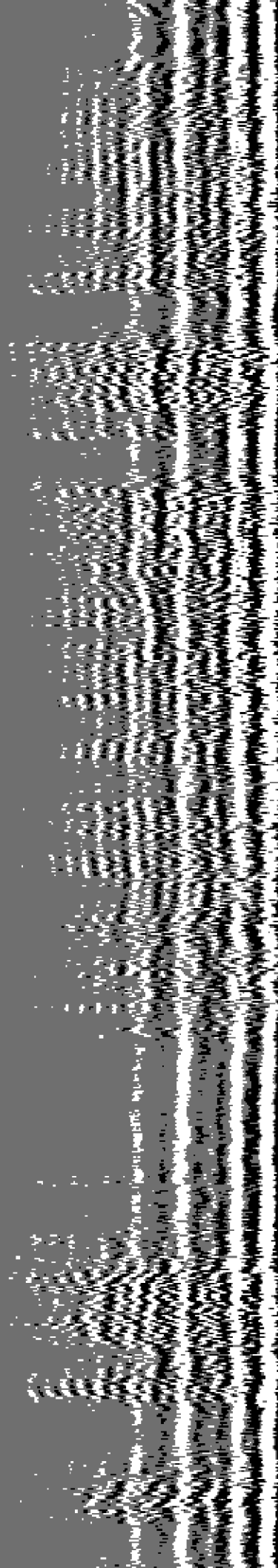


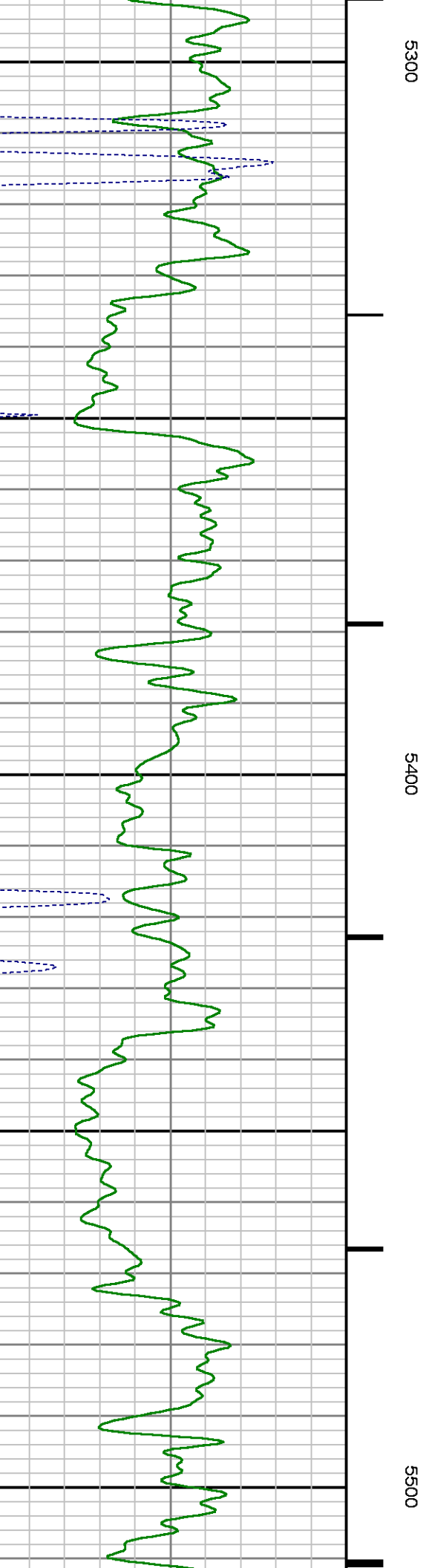
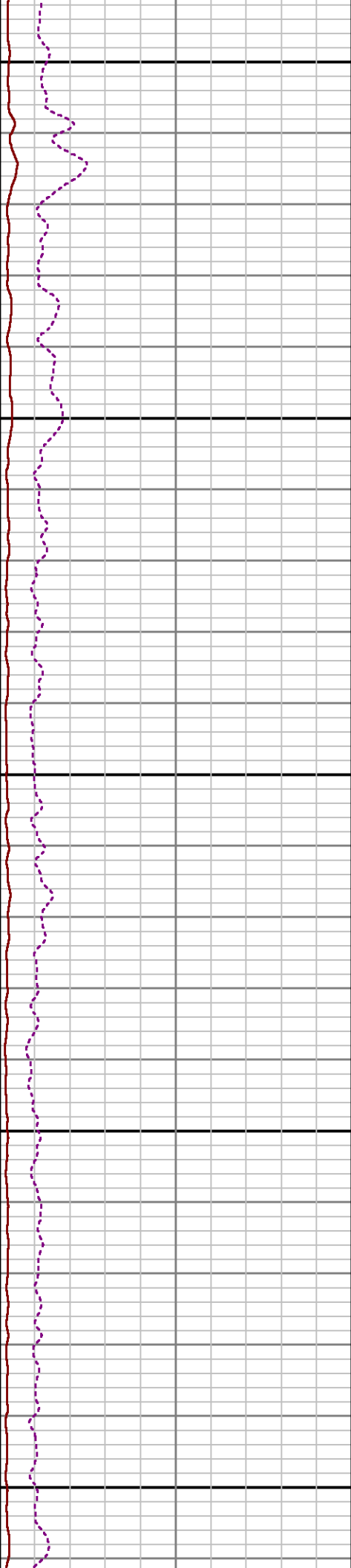
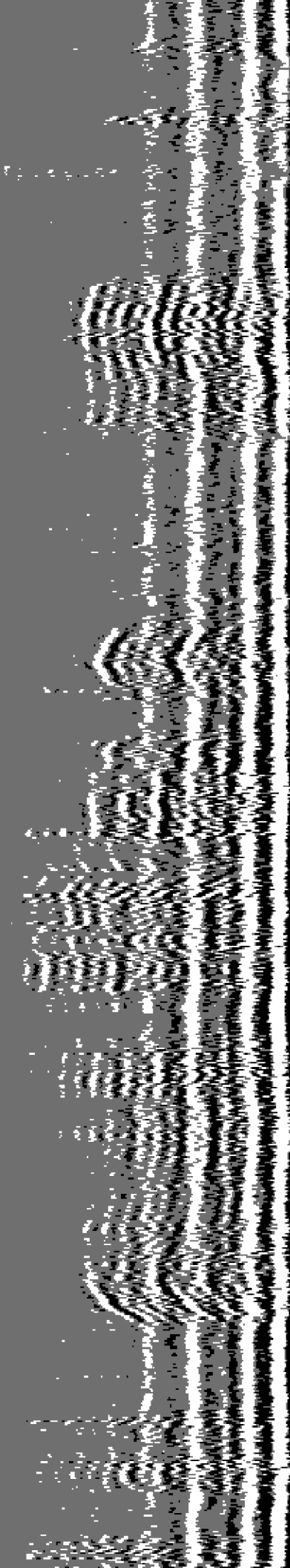


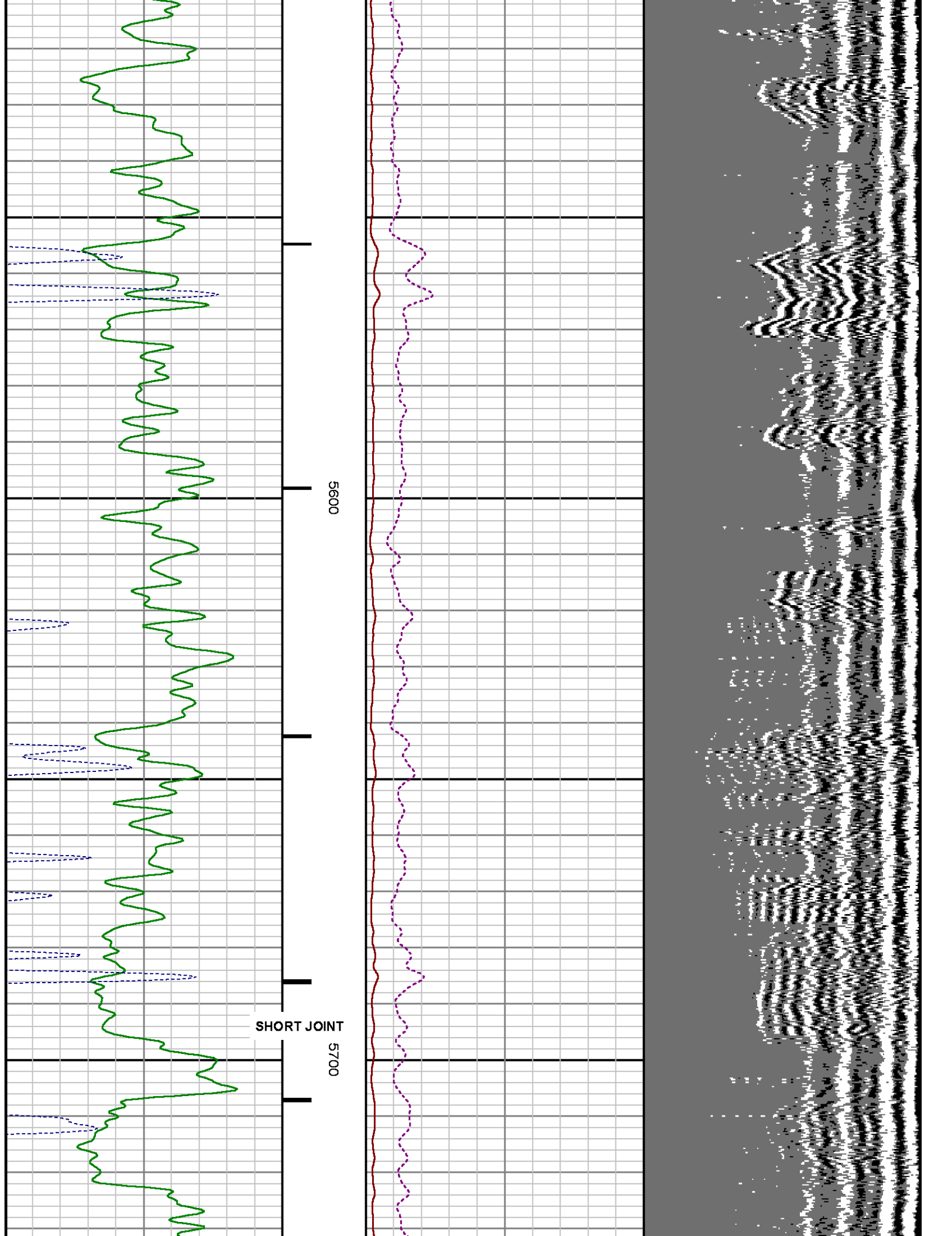
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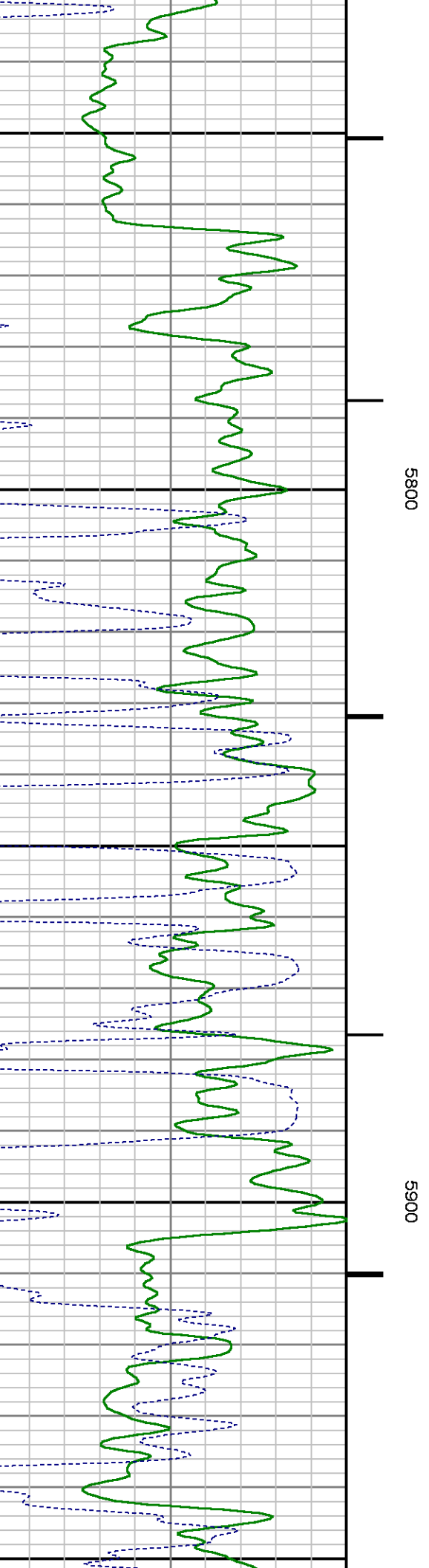
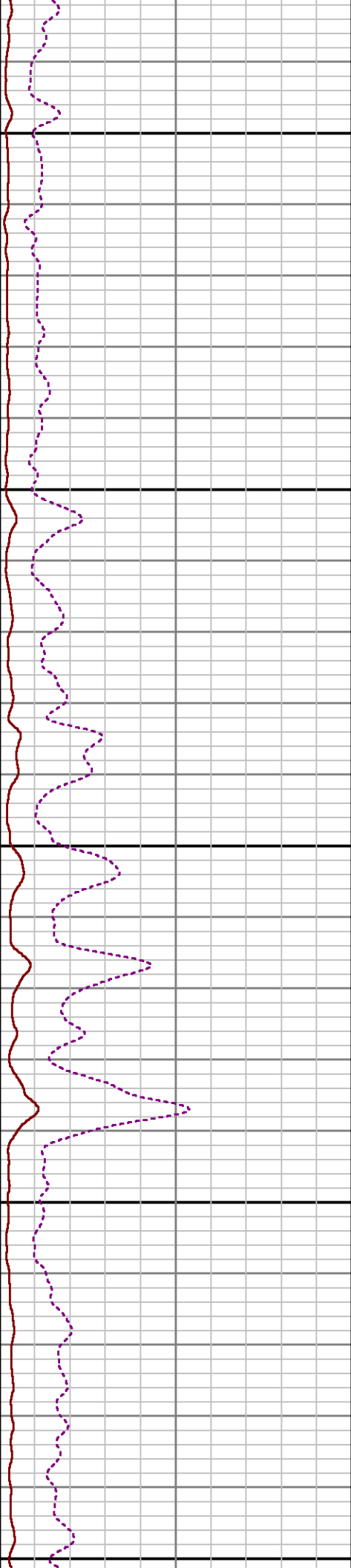
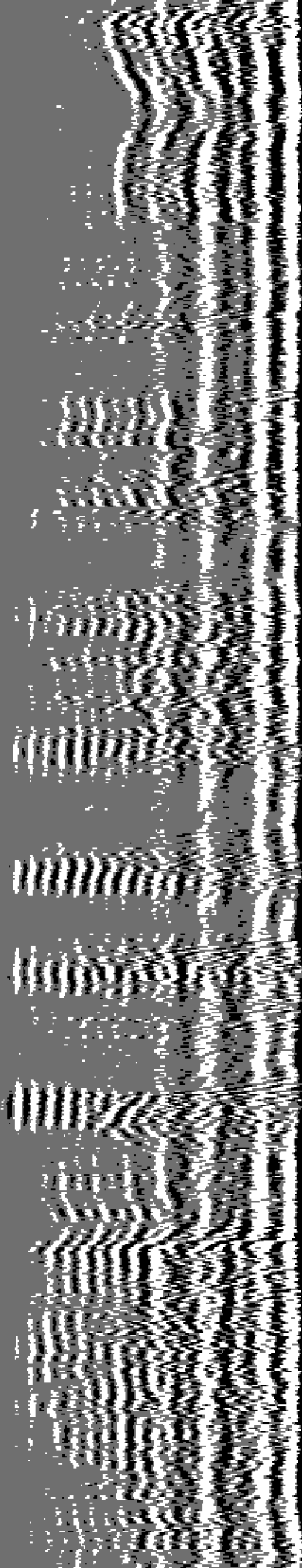
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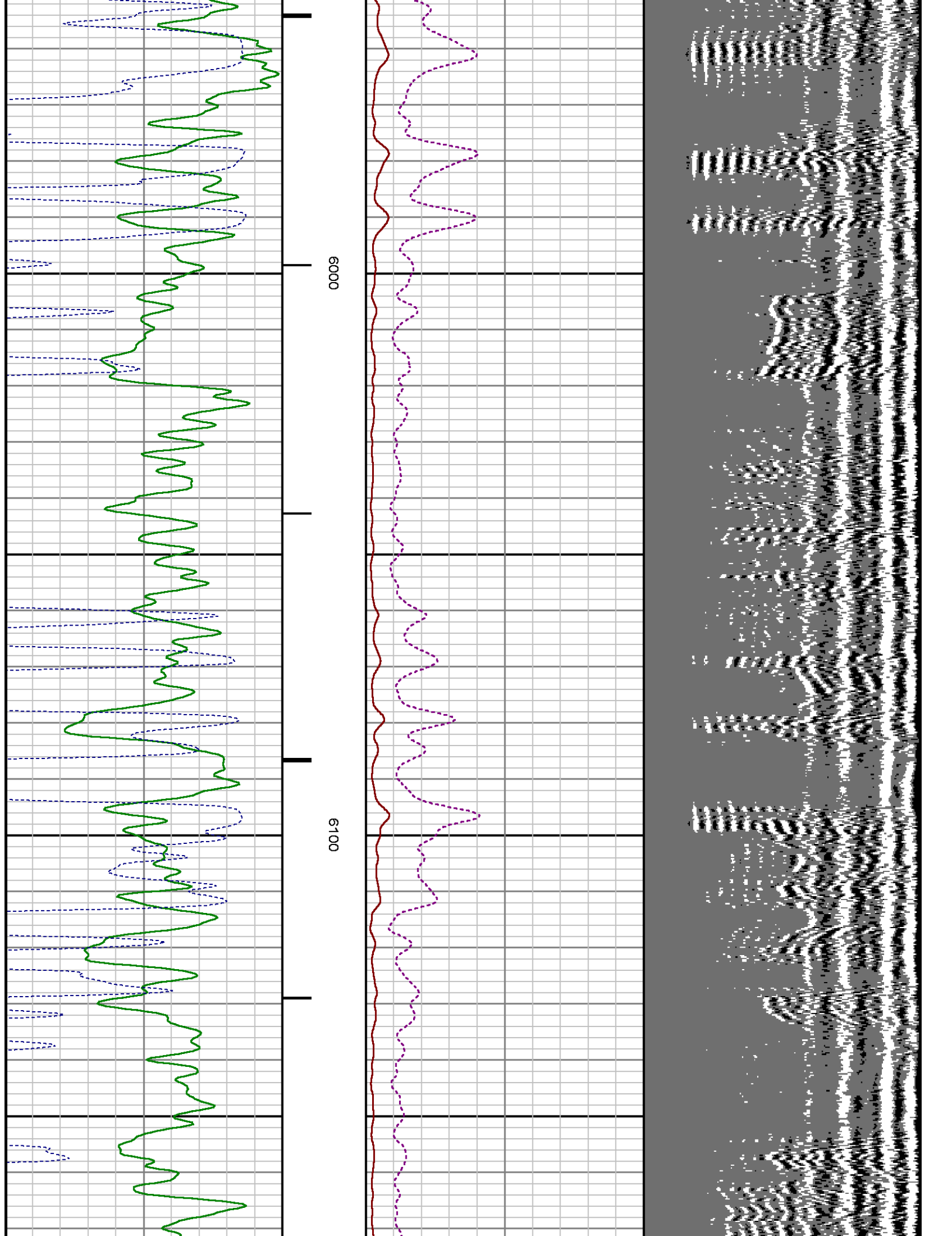


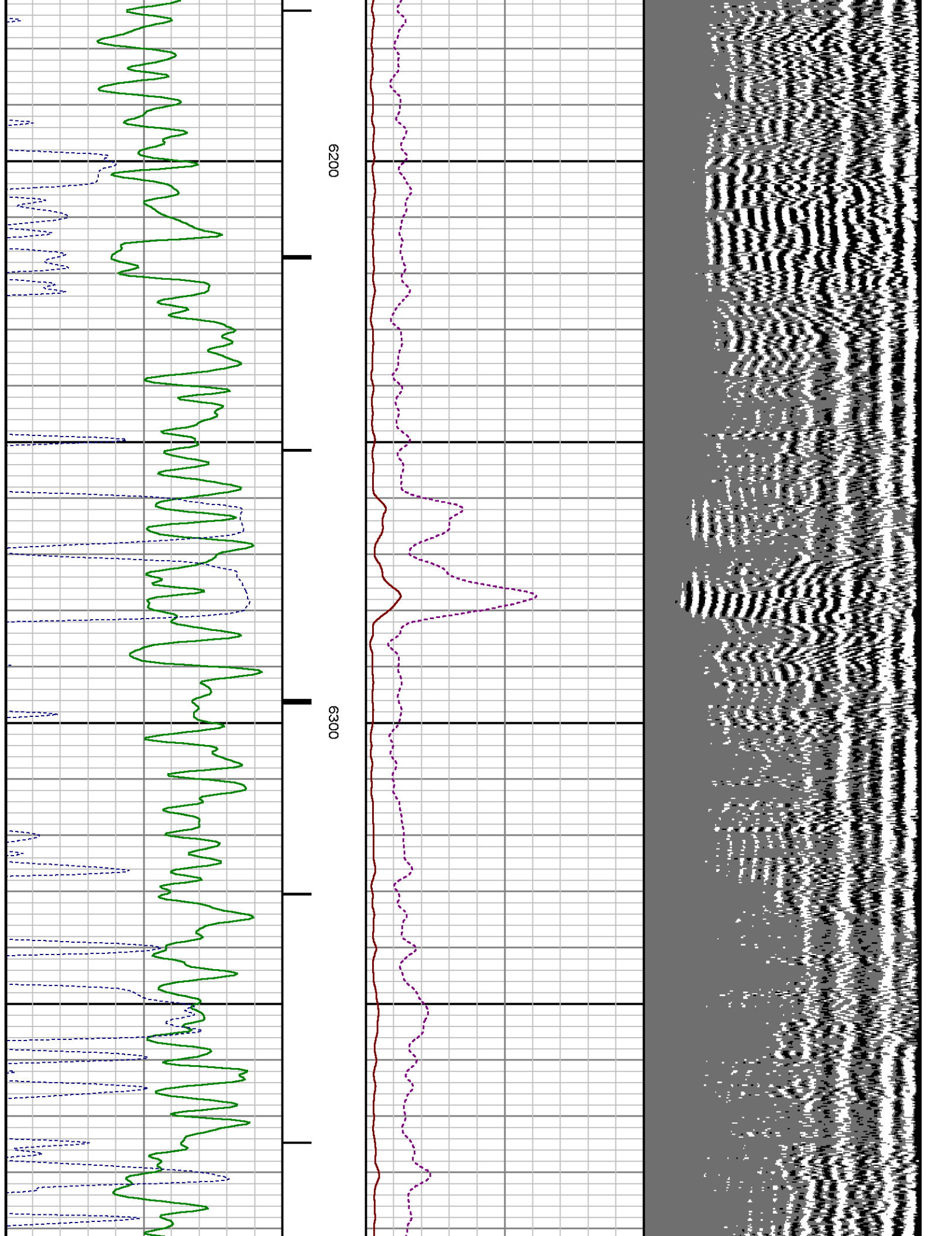


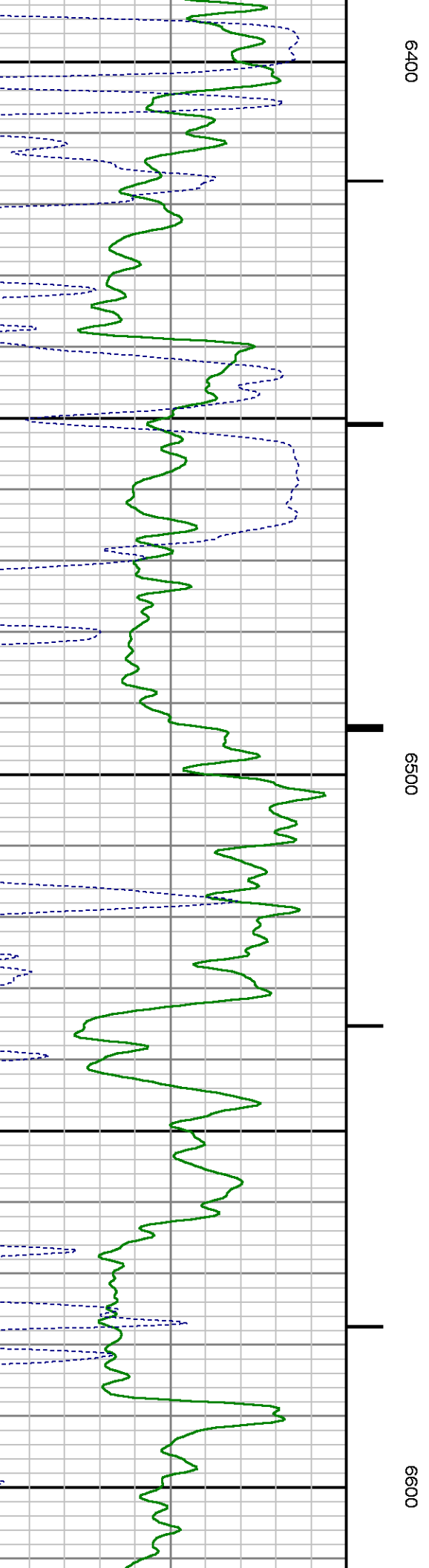
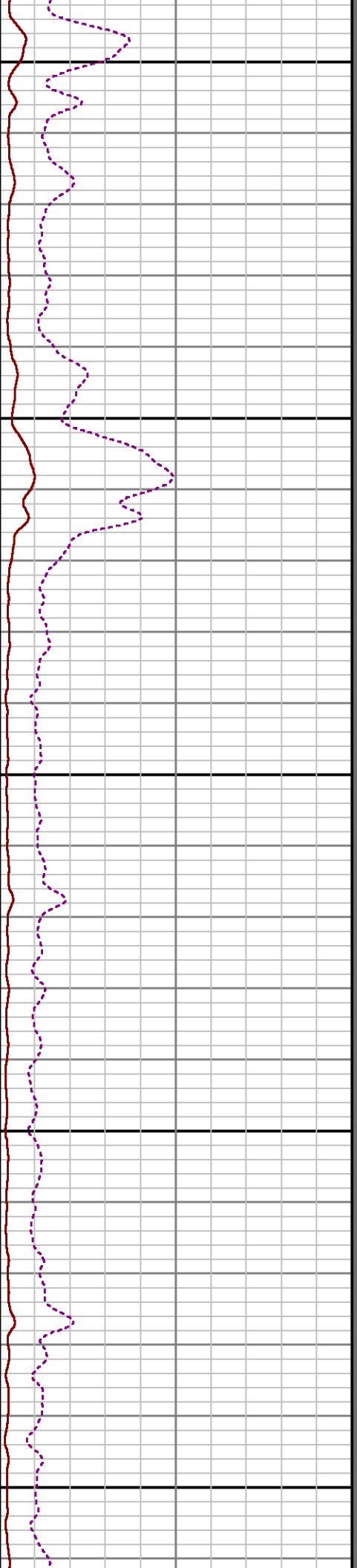
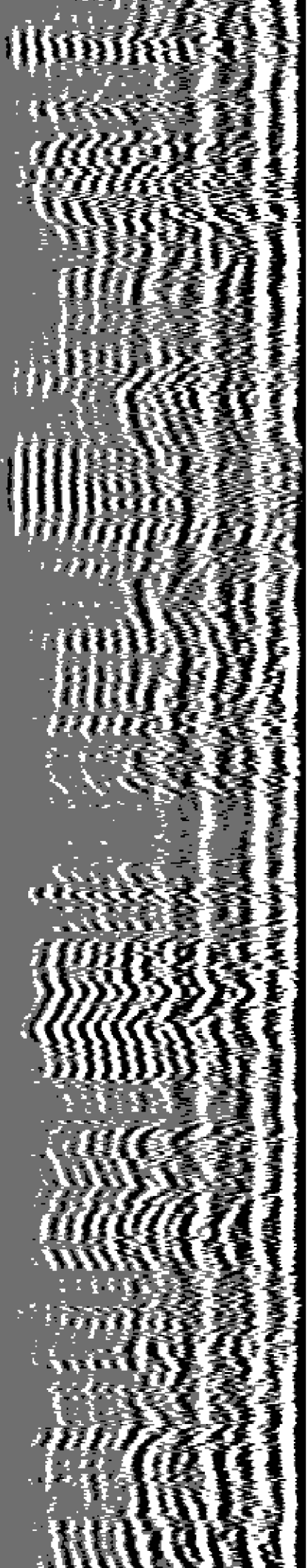


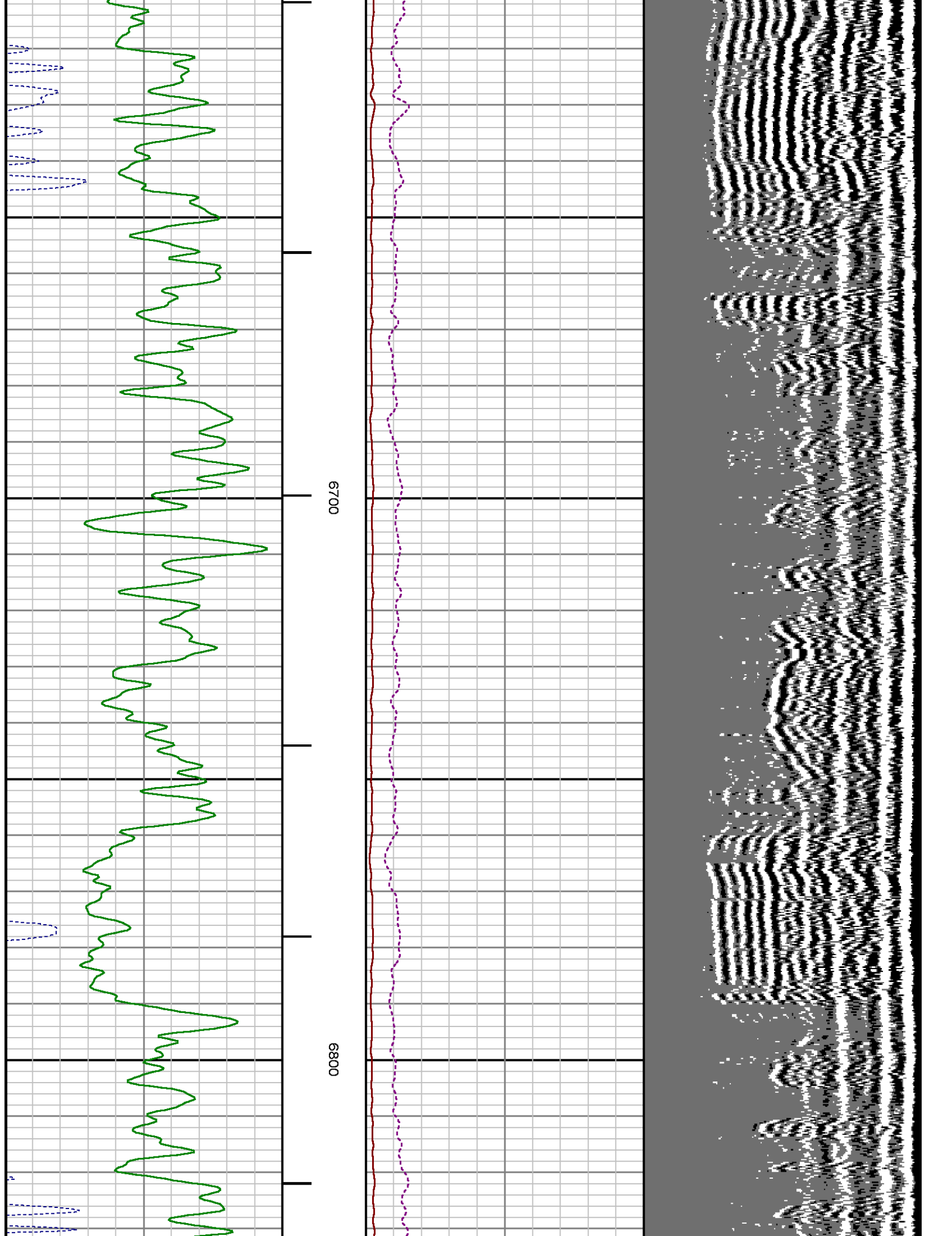


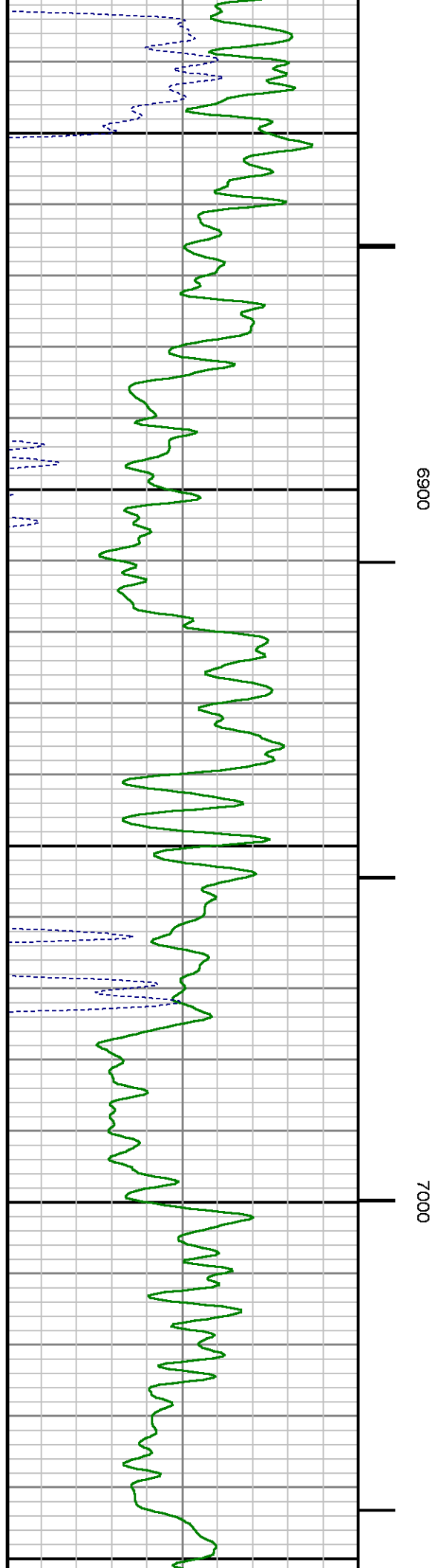
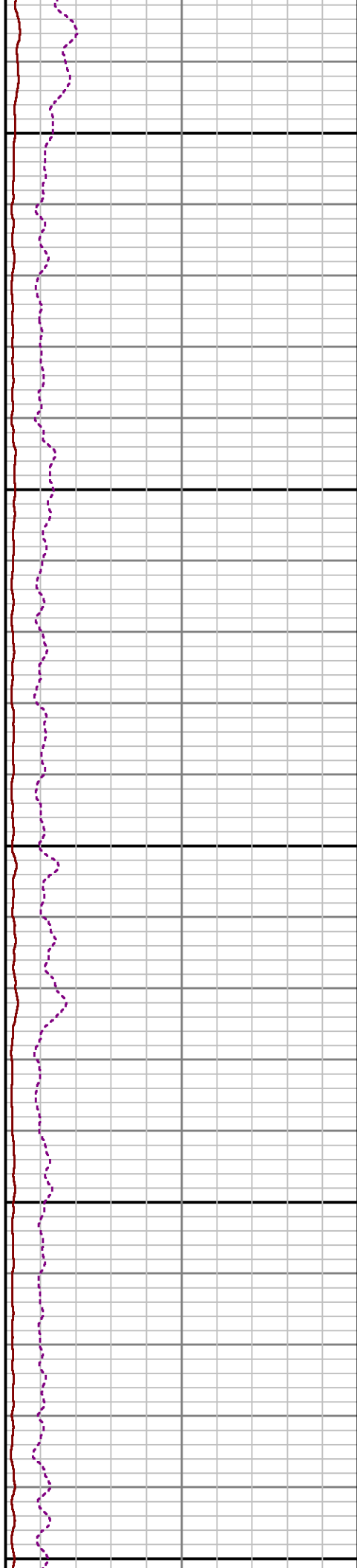
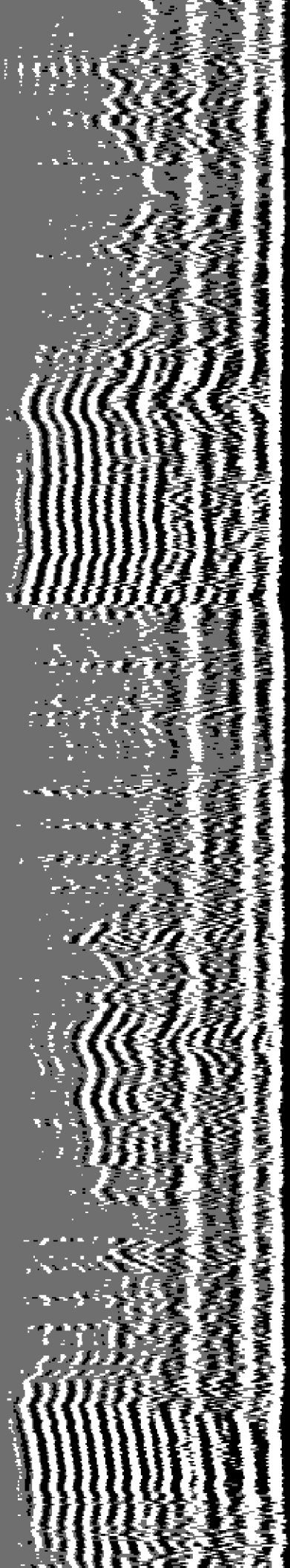


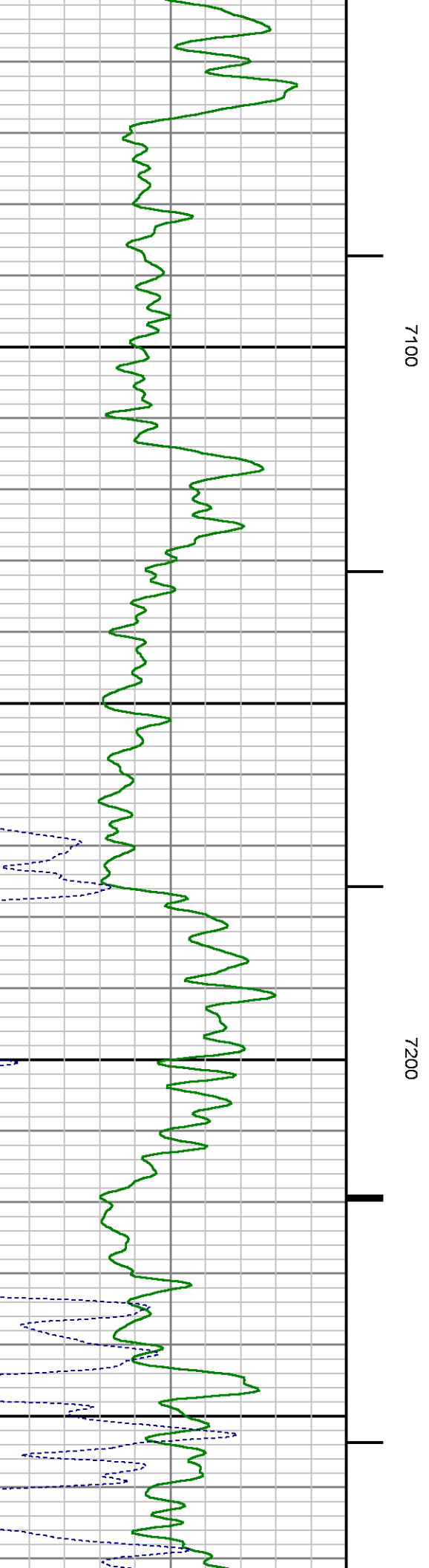
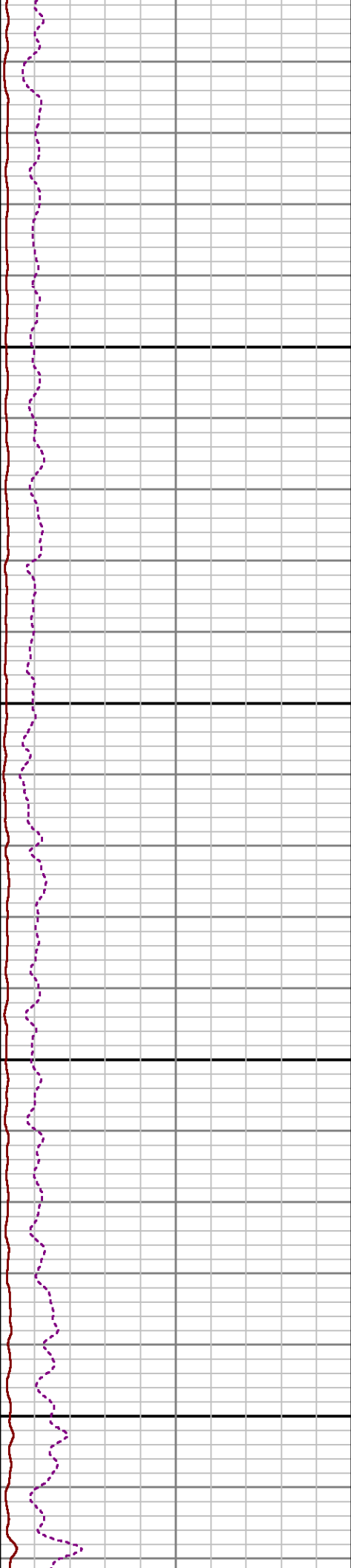
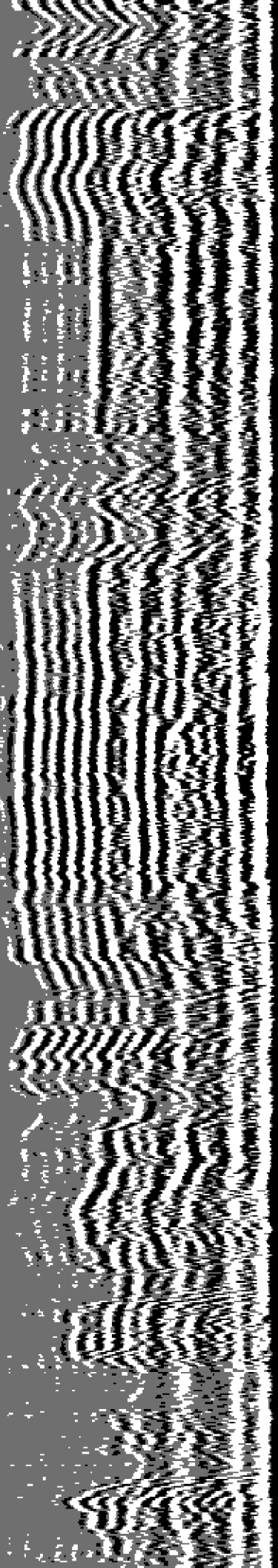


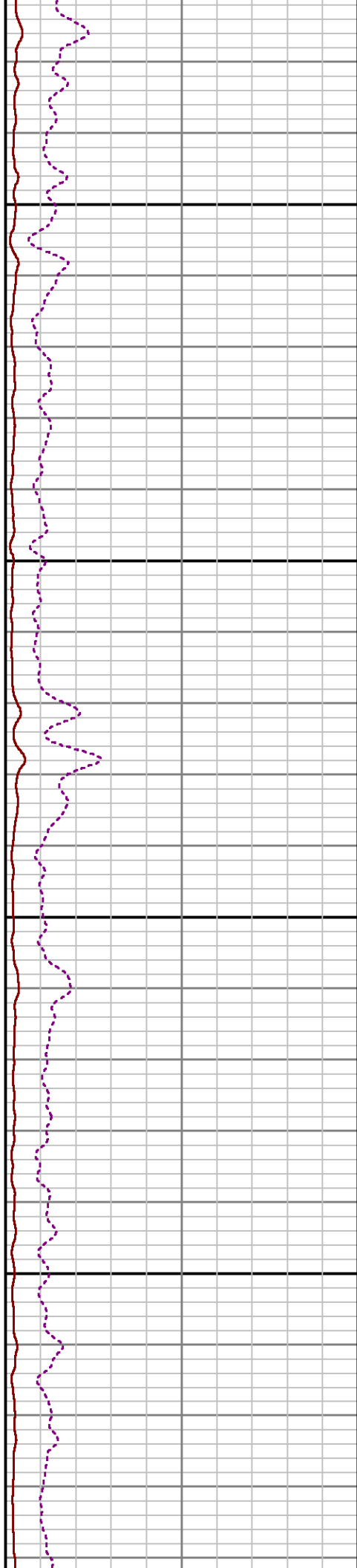
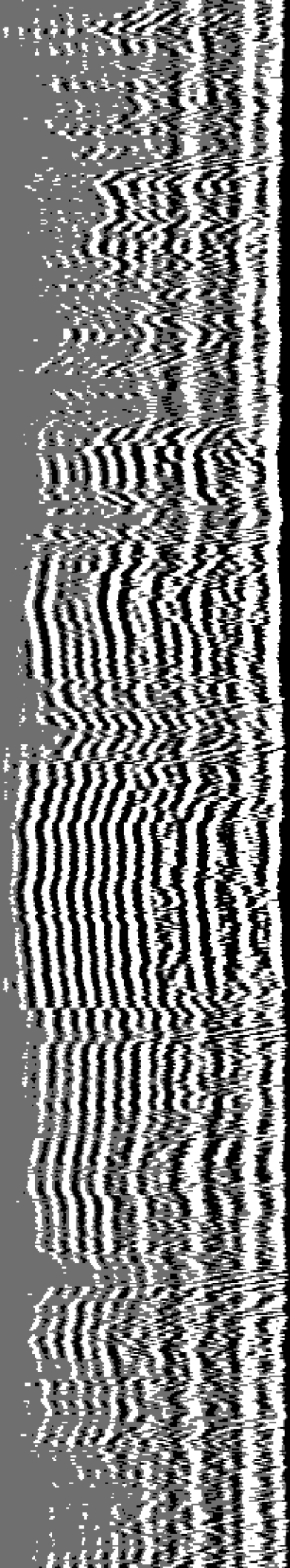






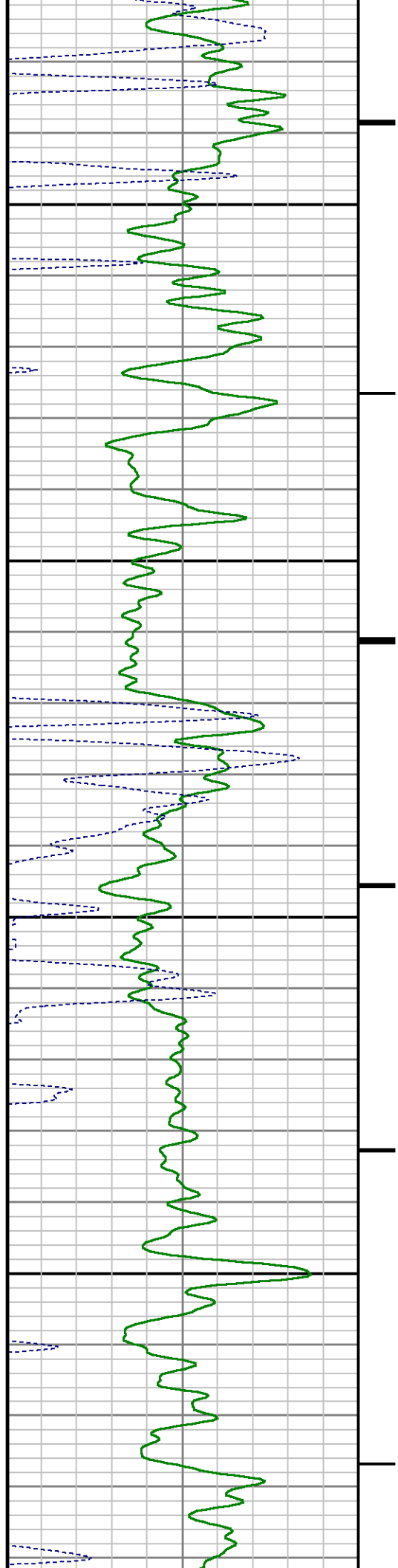


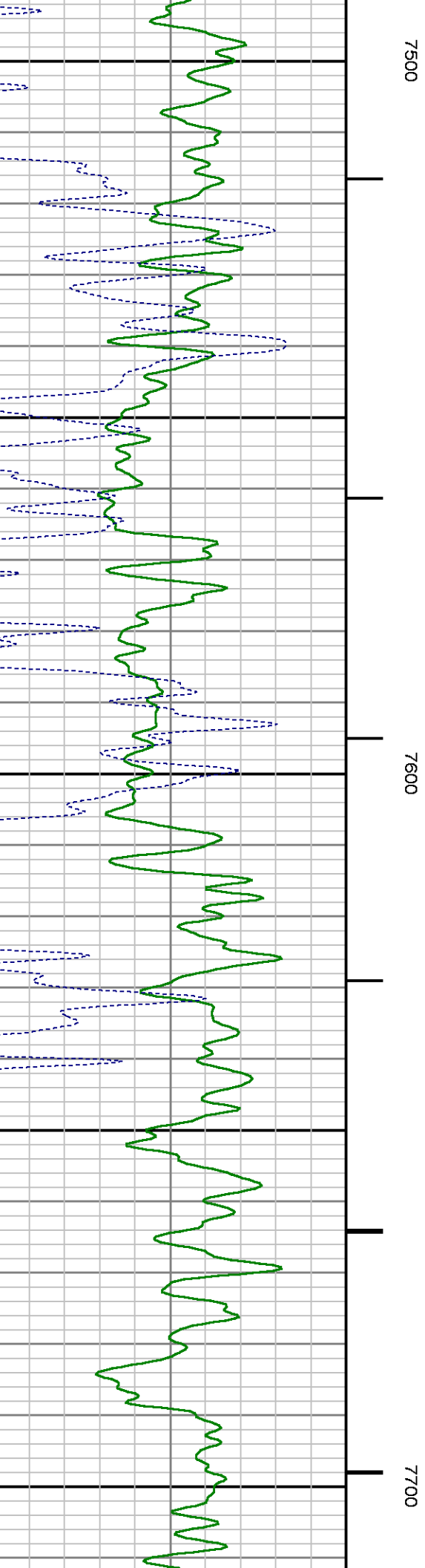
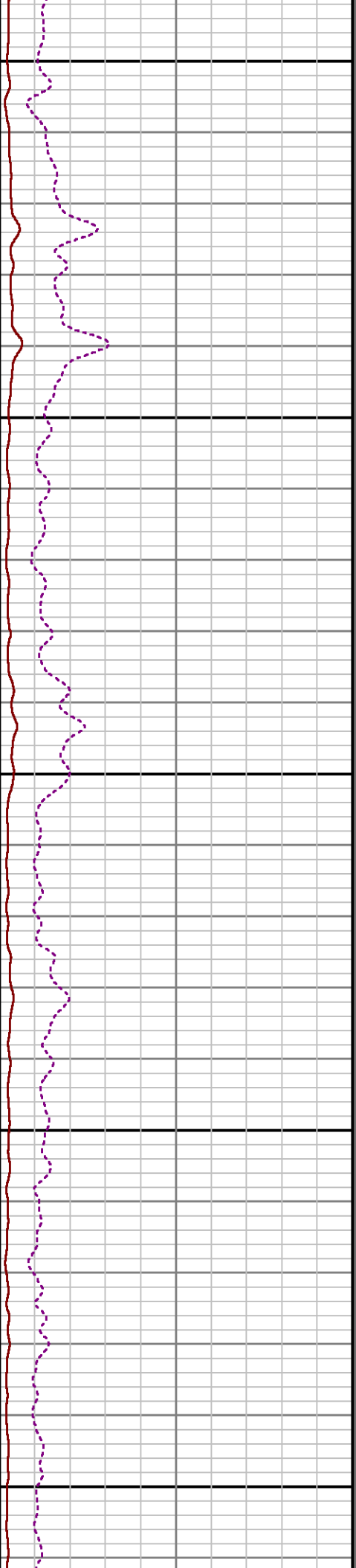
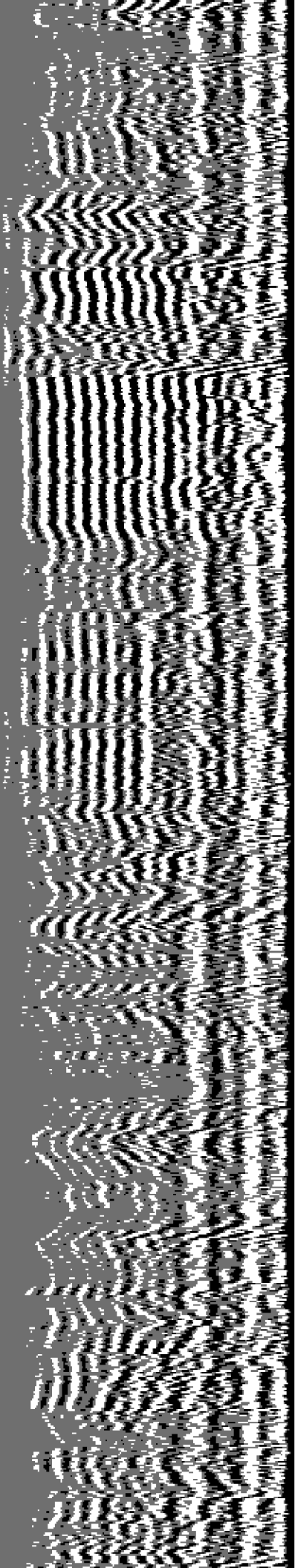


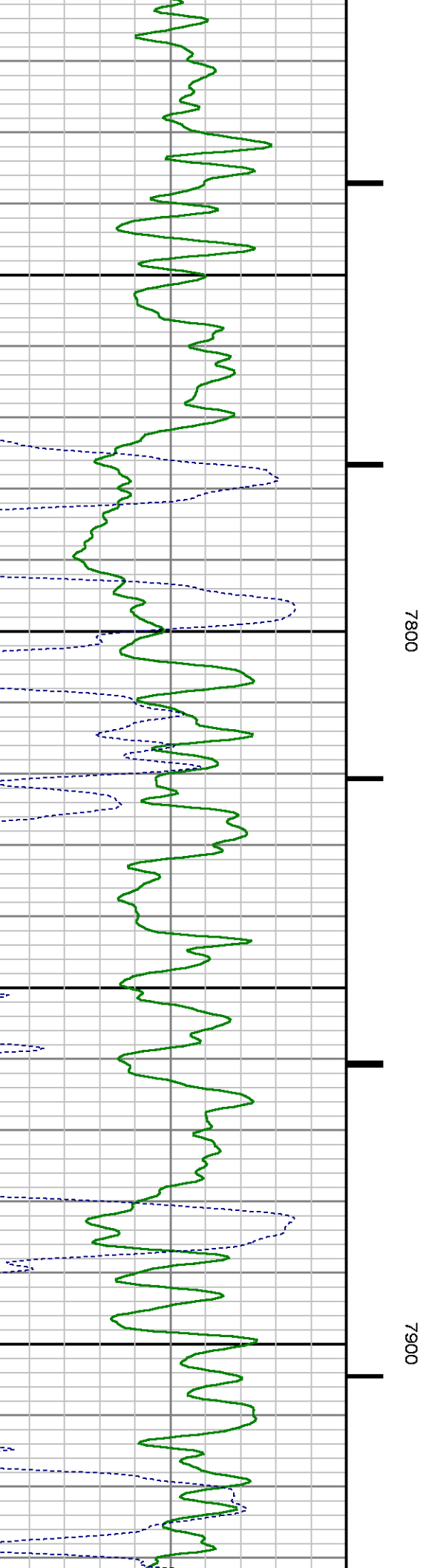
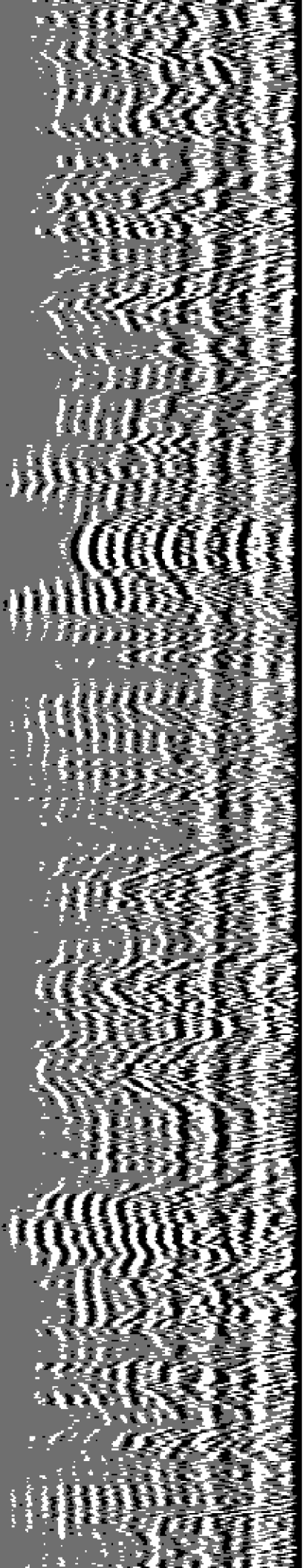


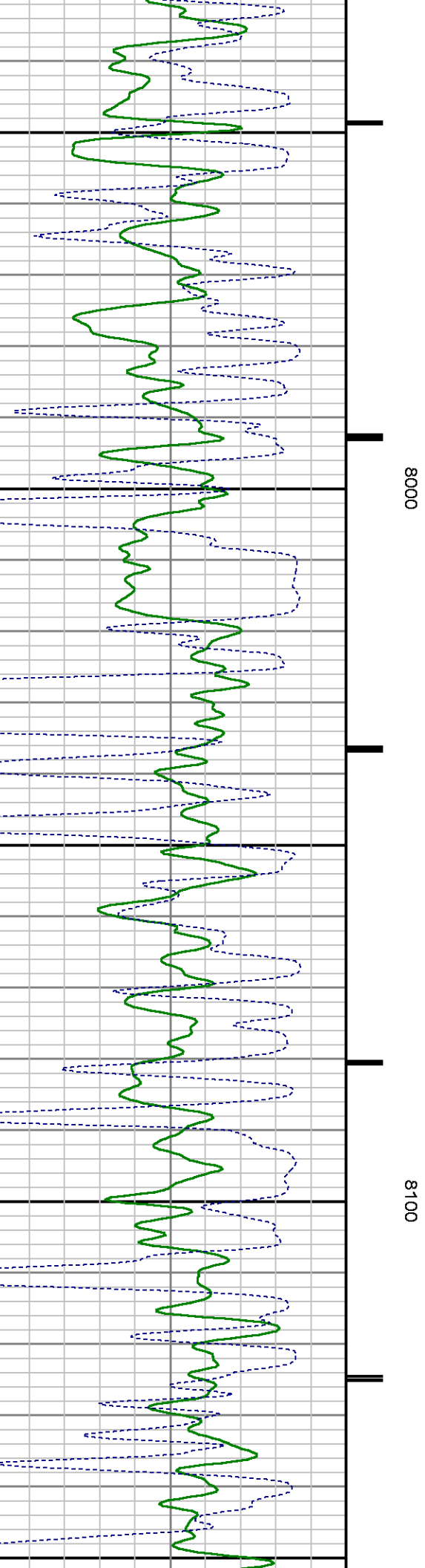
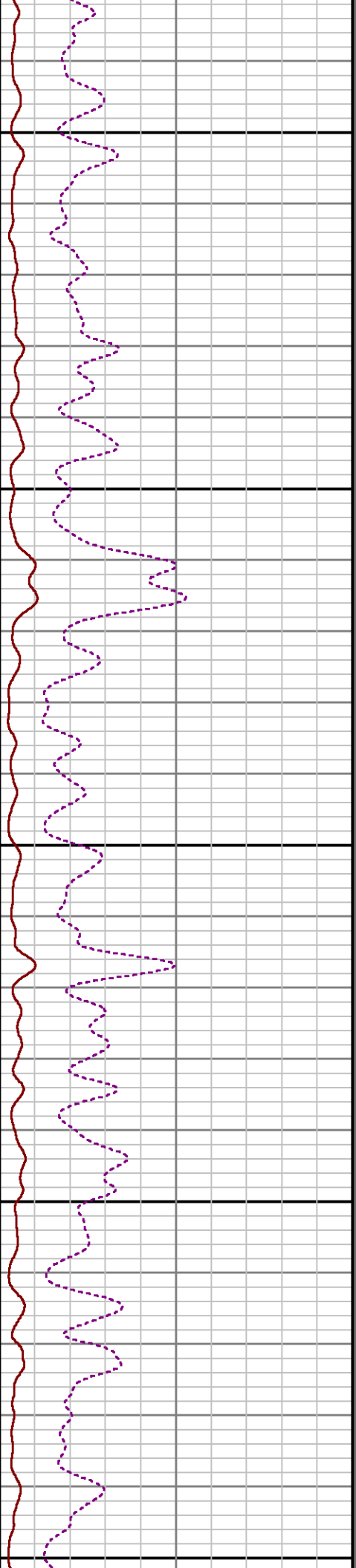
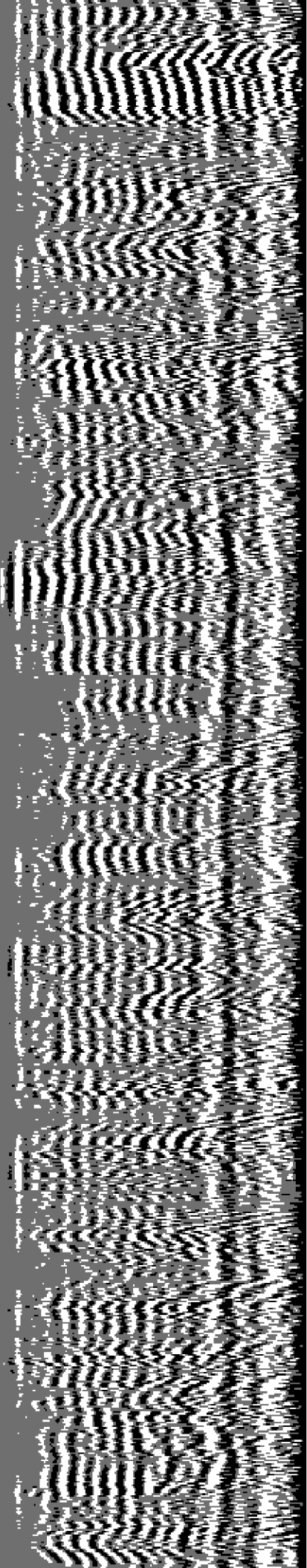
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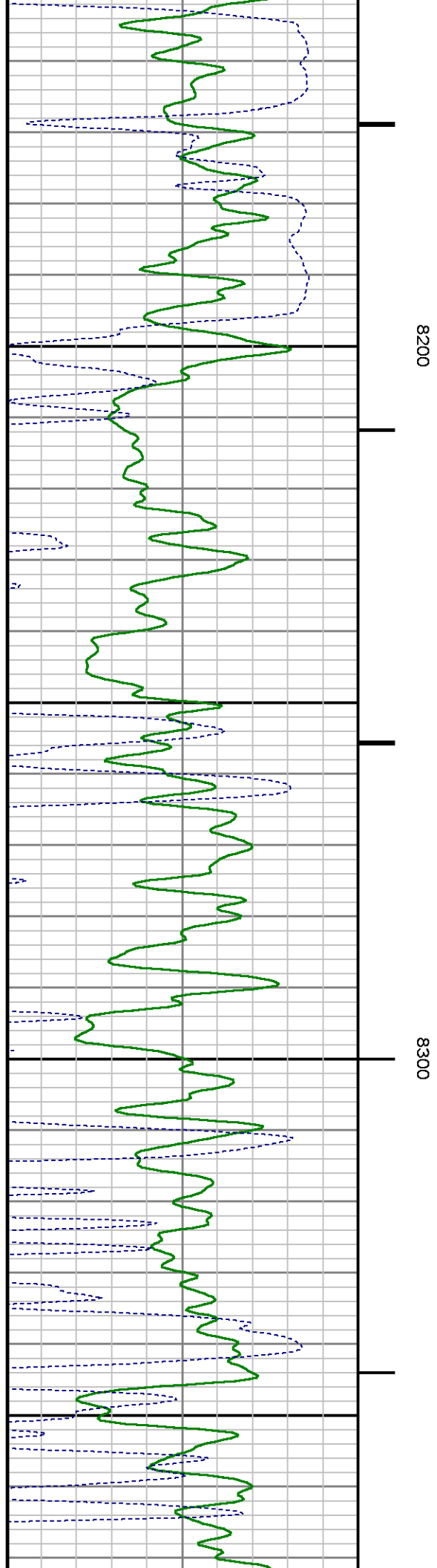
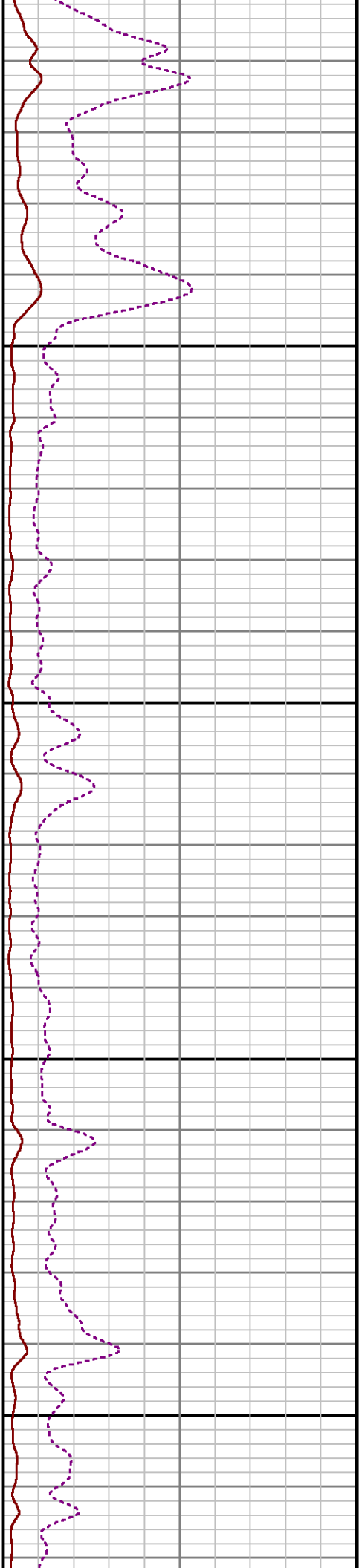
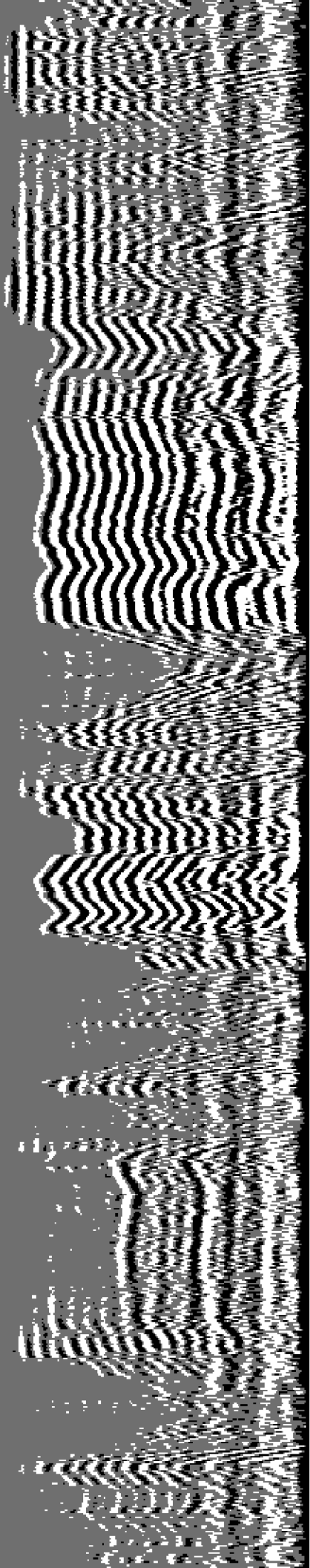
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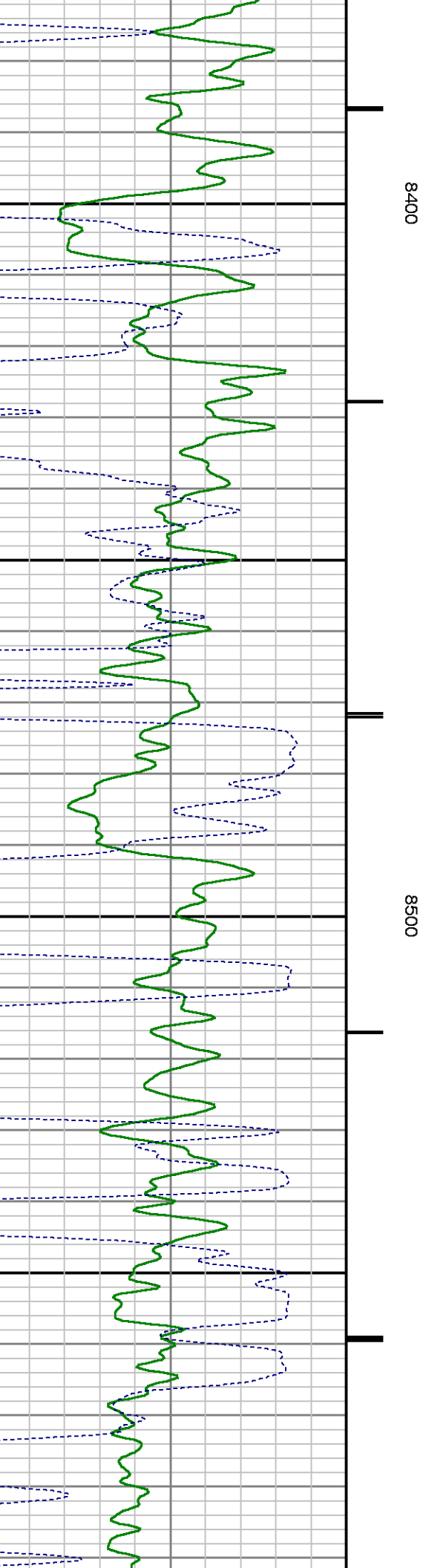
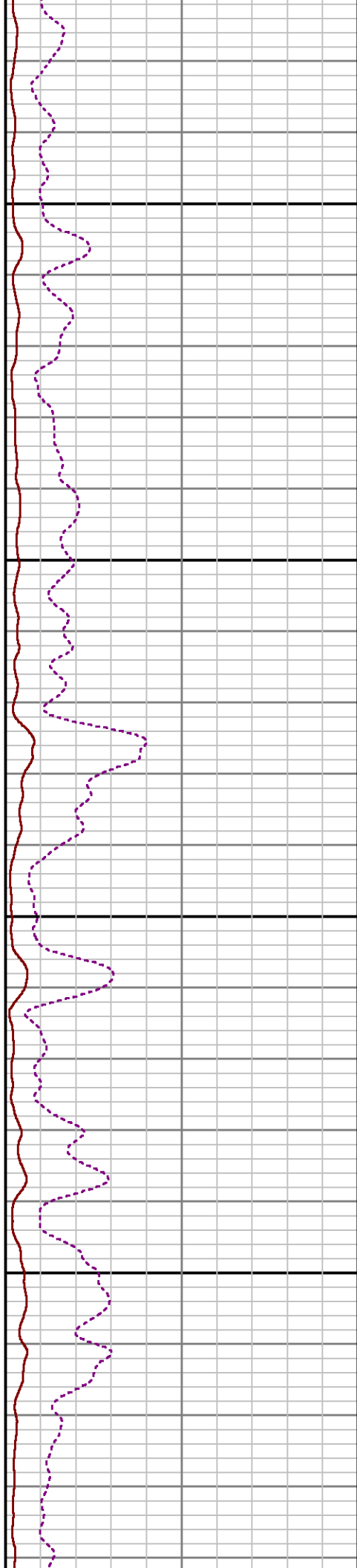
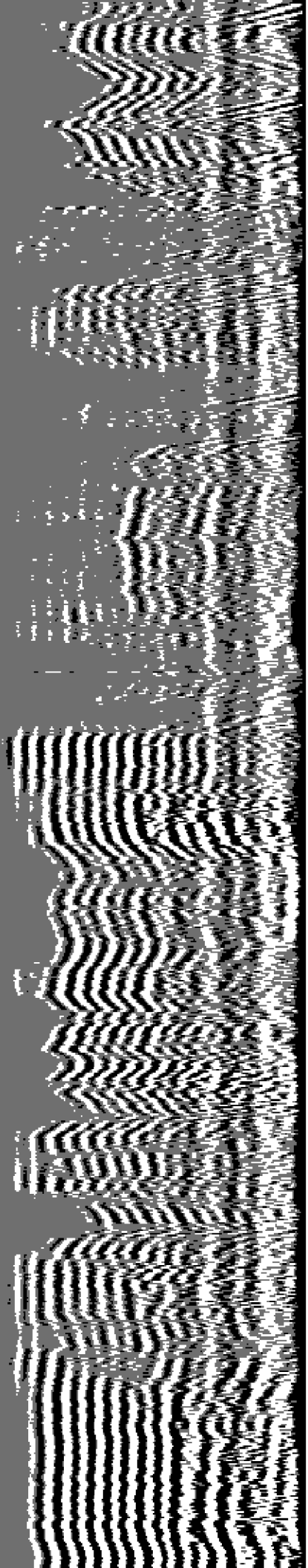


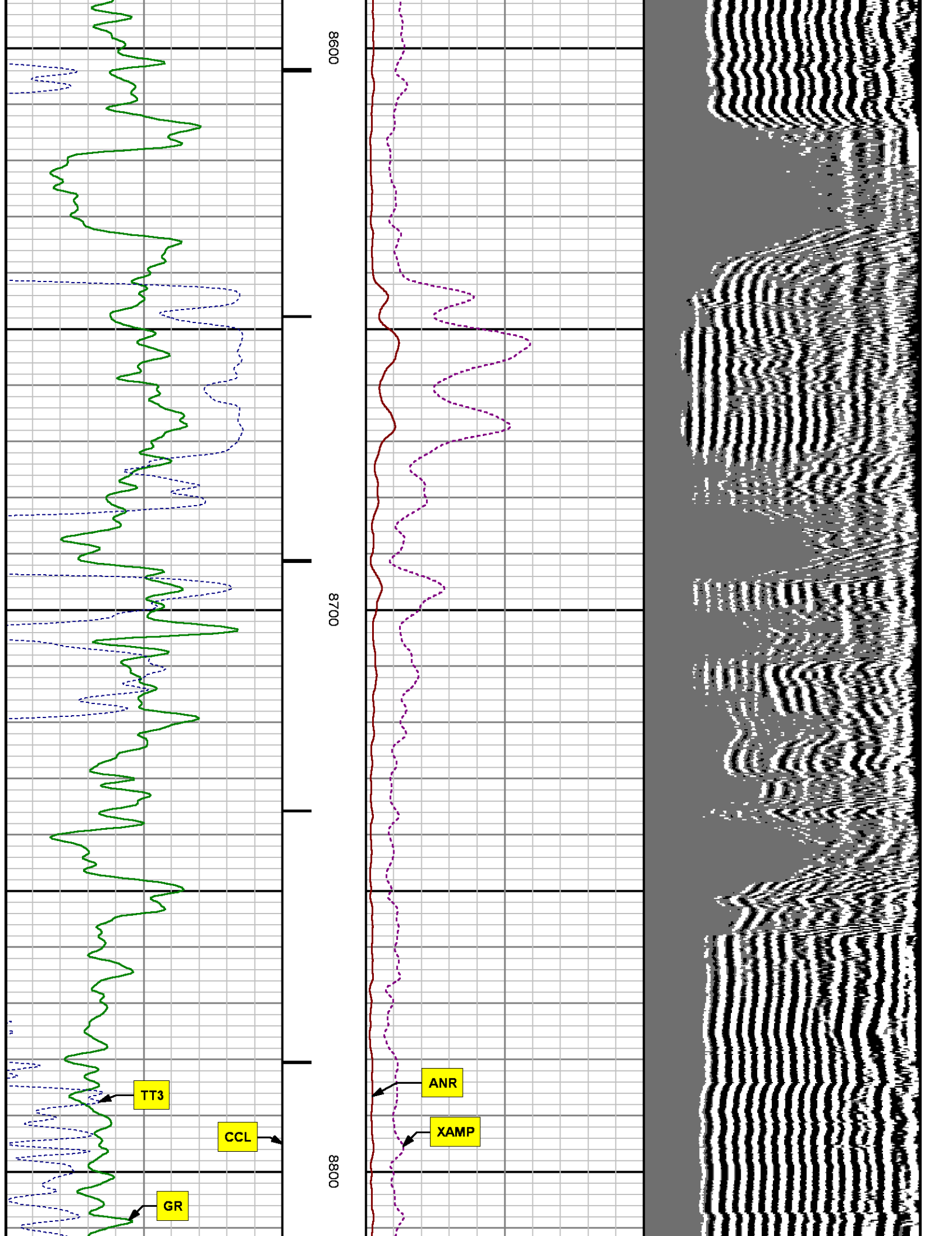


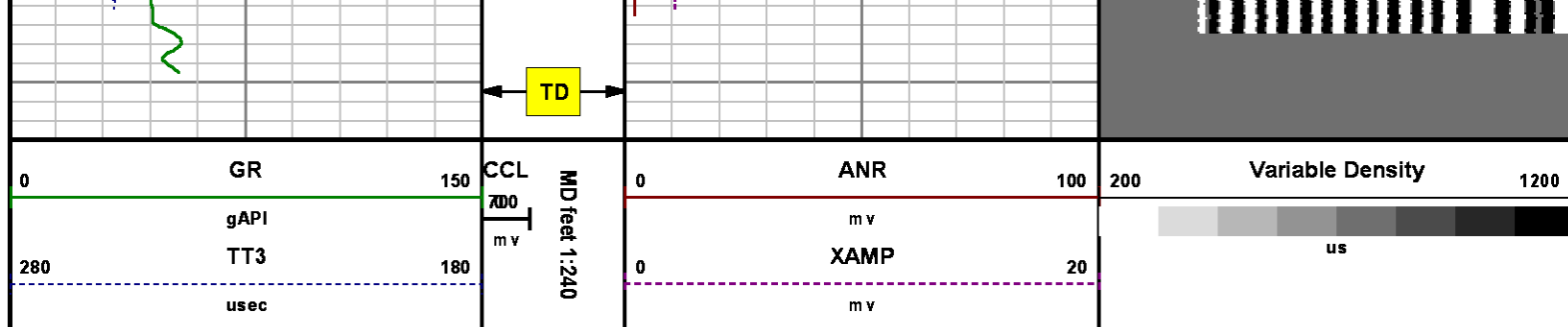












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	31.162	1733.500
RAL	Amp Gate Start Near	195.000	usec	31.162	1733.500
RAL	Amp Gate Start Radial	195.000	usec	31.162	1733.500
RAL	Amp Gate Width Far	25.000	usec	31.162	1733.500
RAL	Amp Gate Width Near	25.000	usec	31.162	1733.500
RAL	Amp Gate Width Radial	25.000	usec	31.162	1733.500
RAL	casing od	4.500	inches	31.162	1733.500
RAL	casing wt	11.600	lbm/ft	31.162	1733.500
RAL	FB Start Far	291.900	usec	31.162	1733.500
RAL	FB Start Near	175.391	usec	31.162	1733.500
RAL	FB Start Radial	175.391	usec	31.162	1733.500
RAL	FB Thresh Far	10.000	mv	31.162	1733.500
RAL	FB Thresh Near	4.000	mv	31.162	1733.500
RAL	FB Thresh Radial	4.000	mv	31.162	1733.500
RAL	Fluid Travel Time	200.000	usec/ft	31.162	1733.500
RAL	Amp Gate Start Far	305.000	usec	1733.500	5003.500
RAL	Amp Gate Start Near	195.000	usec	1733.500	5003.500
RAL	Amp Gate Start Radial	195.000	usec	1733.500	5003.500
RAL	Amp Gate Width Far	25.000	usec	1733.500	5003.500
RAL	Amp Gate Width Near	25.000	usec	1733.500	5003.500
RAL	Amp Gate Width Radial	25.000	usec	1733.500	5003.500
RAL	casing od	4.500	inches	1733.500	5003.500
RAL	casing wt	11.600	lbm/ft	1733.500	5003.500
RAL	FB Start Far	291.900	usec	1733.500	5003.500
RAL	FB Start Near	175.391	usec	1733.500	5003.500
RAL	FB Start Radial	175.391	usec	1733.500	5003.500
RAL	FB Thresh Far	10.000	mv	1733.500	5003.500
RAL	FB Thresh Near	4.000	mv	1733.500	5003.500
RAL	FB Thresh Radial	4.000	mv	1733.500	5003.500

RAL	FB Thresh Near	4.000	mv	1733.500	5003.500
RAL	FB Thresh Radial	4.000	mv	1733.500	5003.500
RAL	Fluid Travel Time	200.000	usec/ft	1733.500	5003.500
RAL	Amp Gate Start Far	305.000	usec	5003.500	8825.500
RAL	Amp Gate Start Near	195.000	usec	5003.500	8825.500
RAL	Amp Gate Start Radial	195.000	usec	5003.500	8825.500
RAL	Amp Gate Width Far	25.000	usec	5003.500	8825.500
RAL	Amp Gate Width Near	25.000	usec	5003.500	8825.500
RAL	Amp Gate Width Radial	25.000	usec	5003.500	8825.500
RAL	casing od	4.500	inches	5003.500	8825.500
RAL	casing wt	11.600	lbm/ft	5003.500	8825.500
RAL	FB Start Far	291.900	usec	5003.500	8825.500
RAL	FB Start Near	175.391	usec	5003.500	8825.500
RAL	FB Start Radial	175.391	usec	5003.500	8825.500
RAL	FB Thresh Far	10.000	mv	5003.500	8825.500
RAL	FB Thresh Near	4.000	mv	5003.500	8825.500
RAL	FB Thresh Radial	4.000	mv	5003.500	8825.500
RAL	Fluid Travel Time	200.000	usec/ft	5003.500	8826.124

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

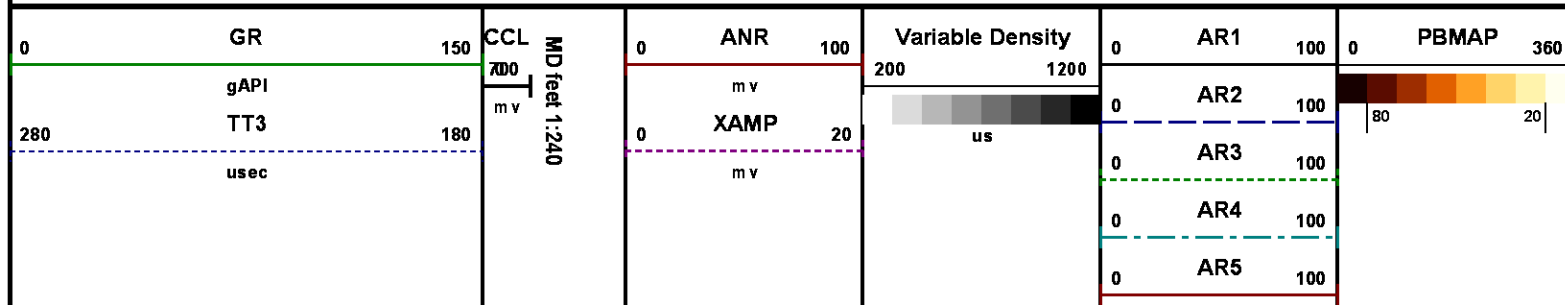
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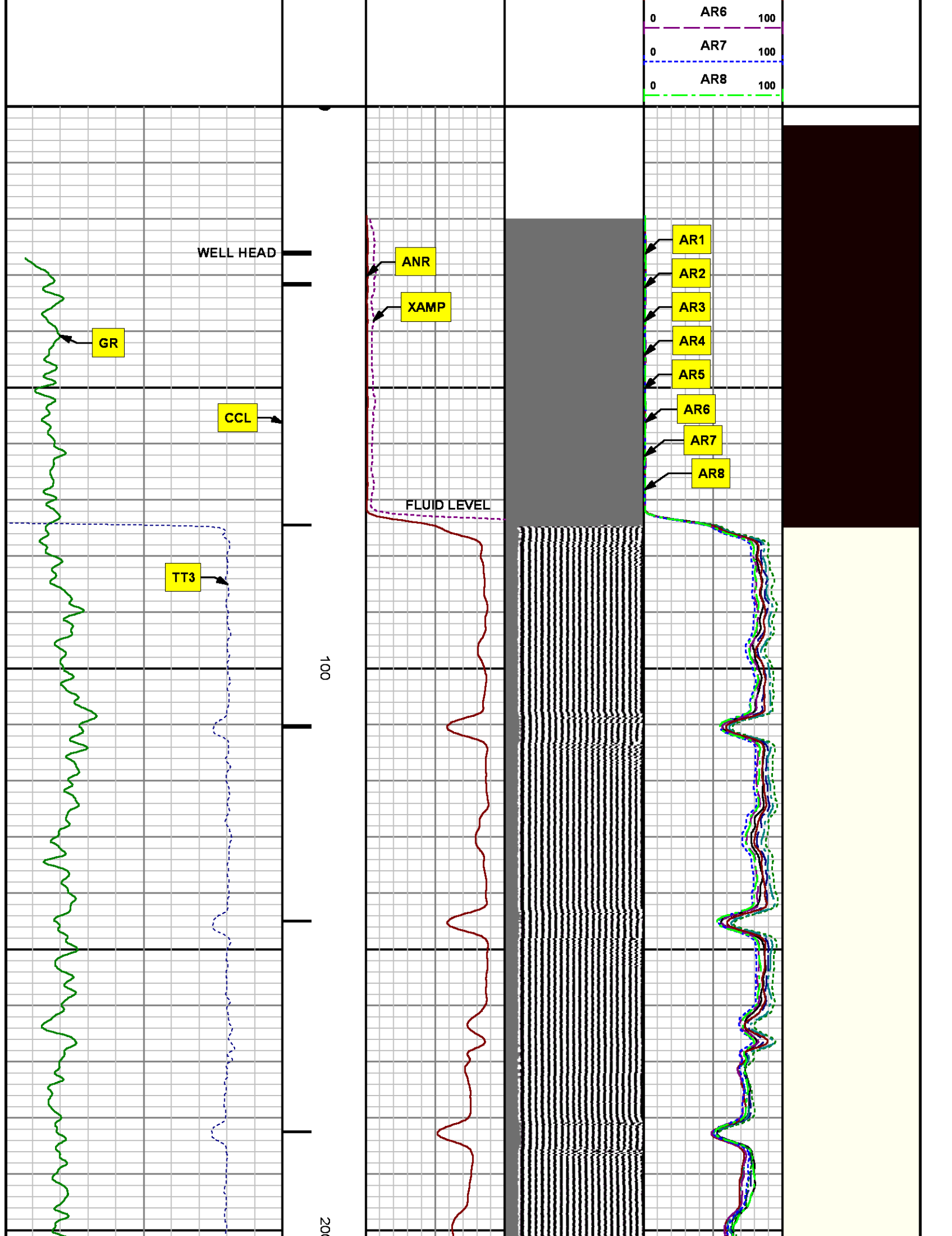
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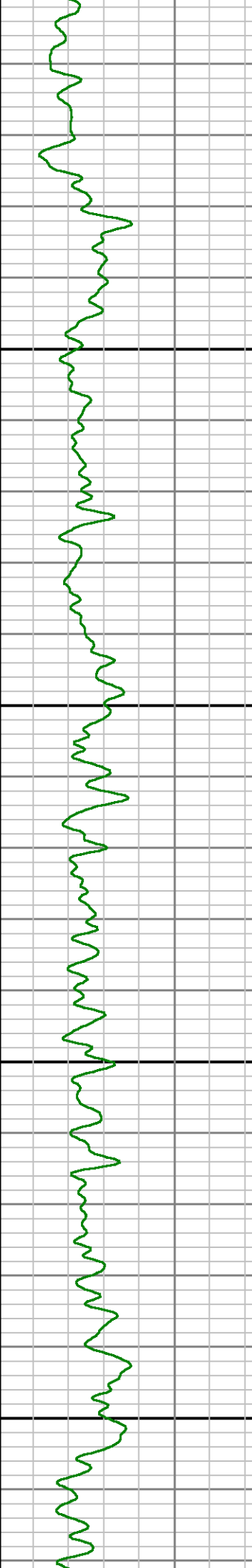
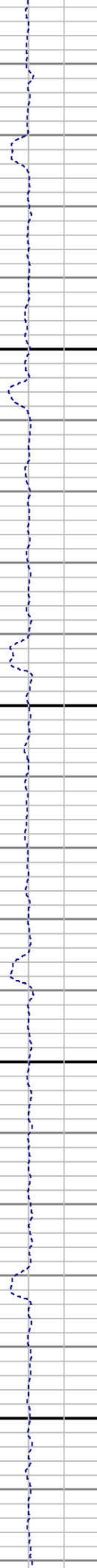
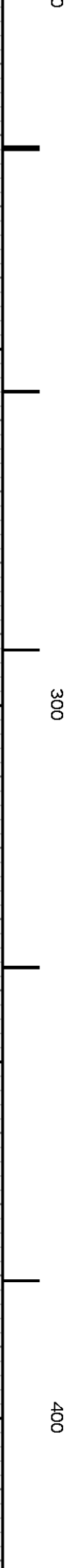
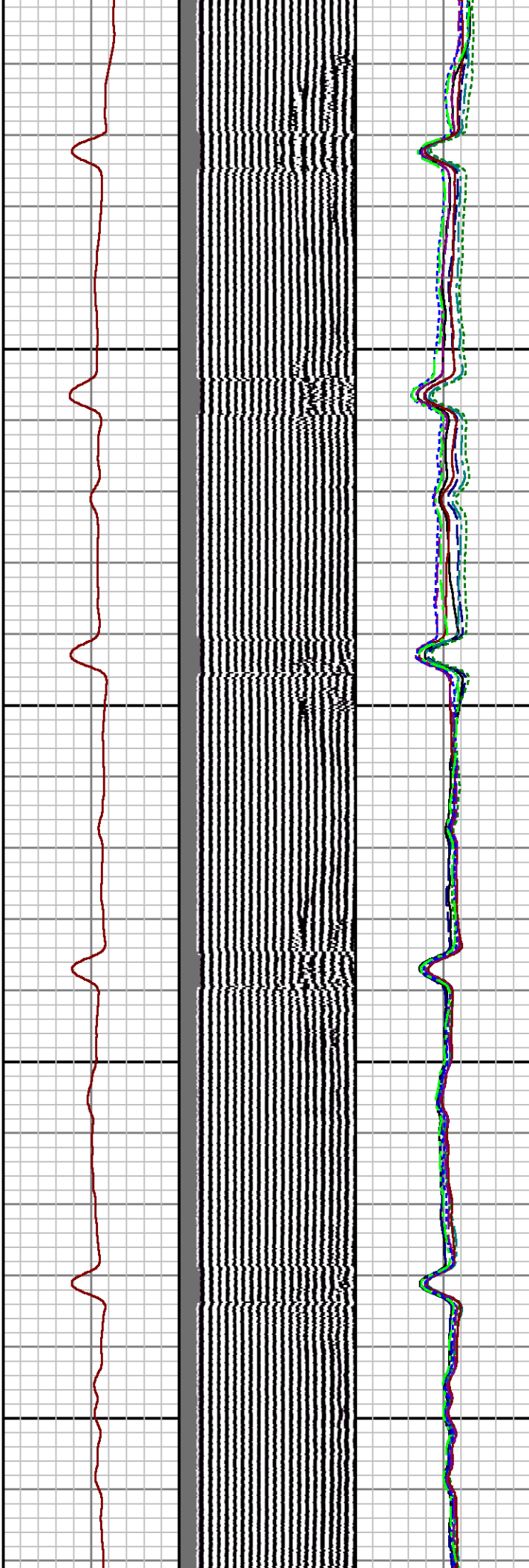
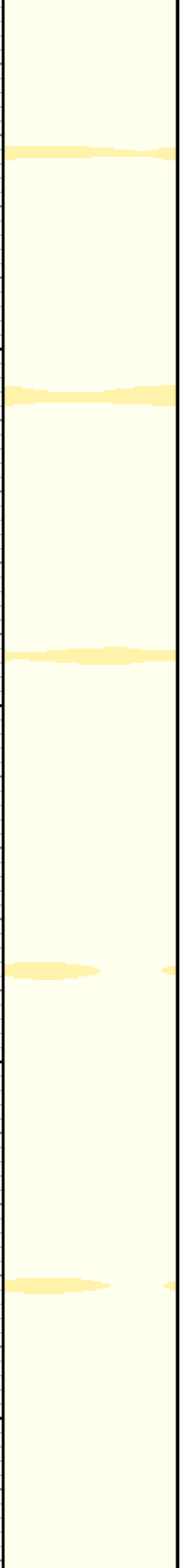
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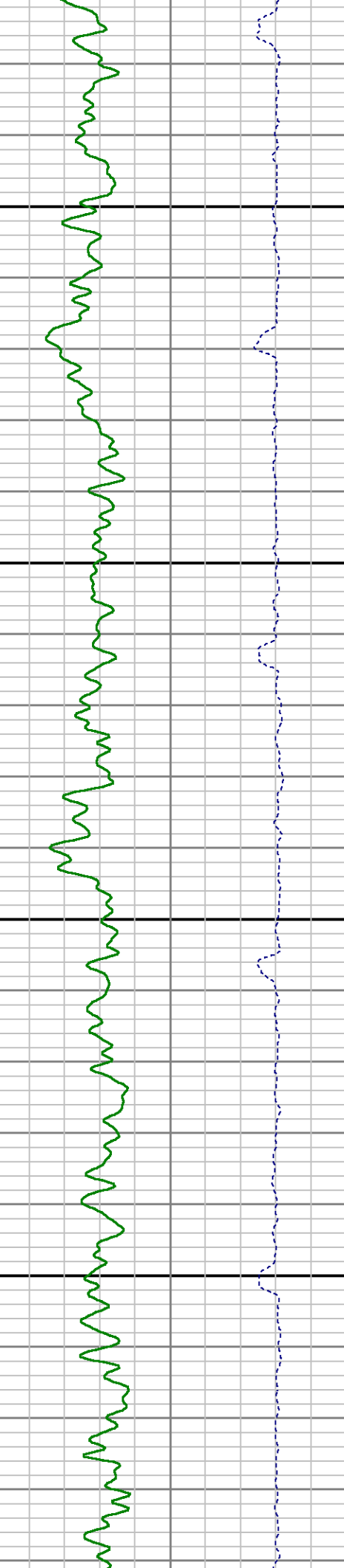
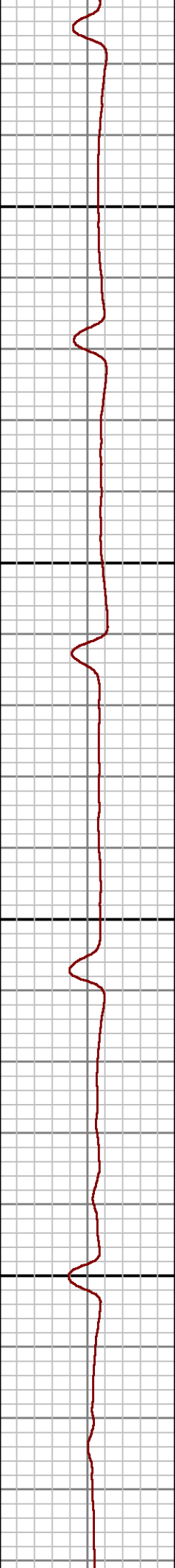
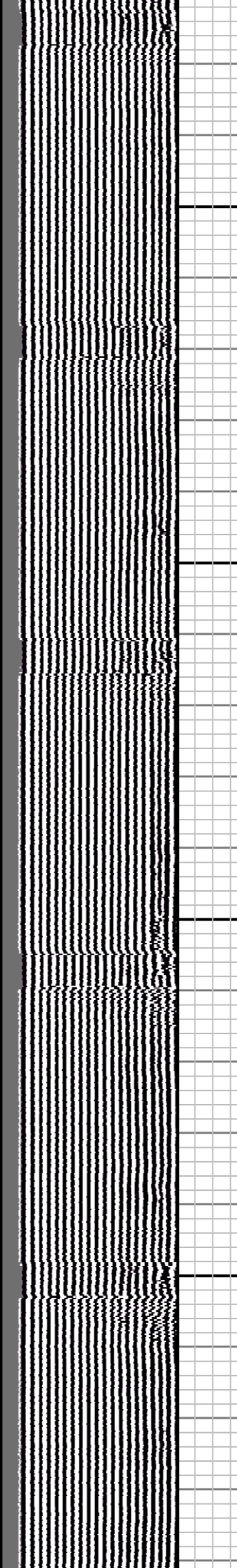
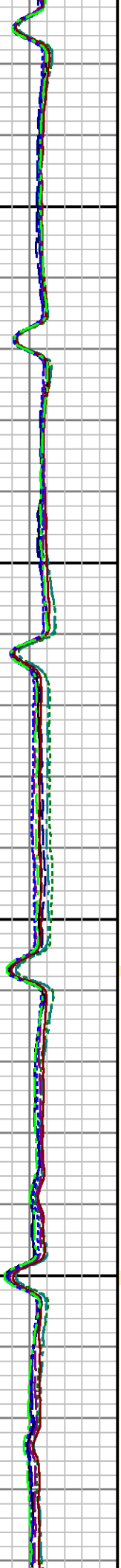
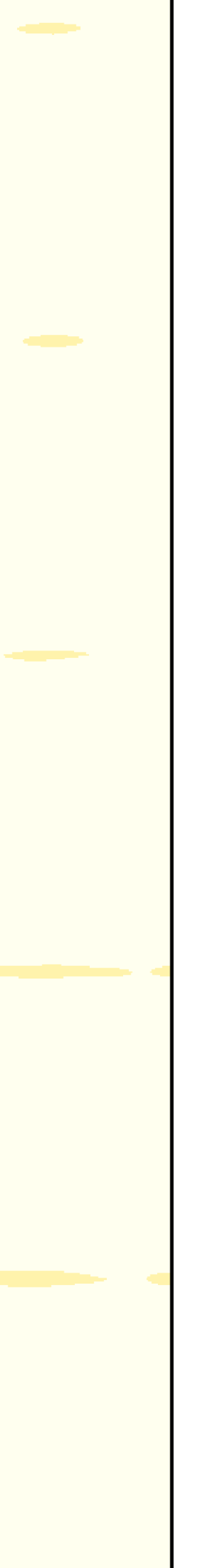
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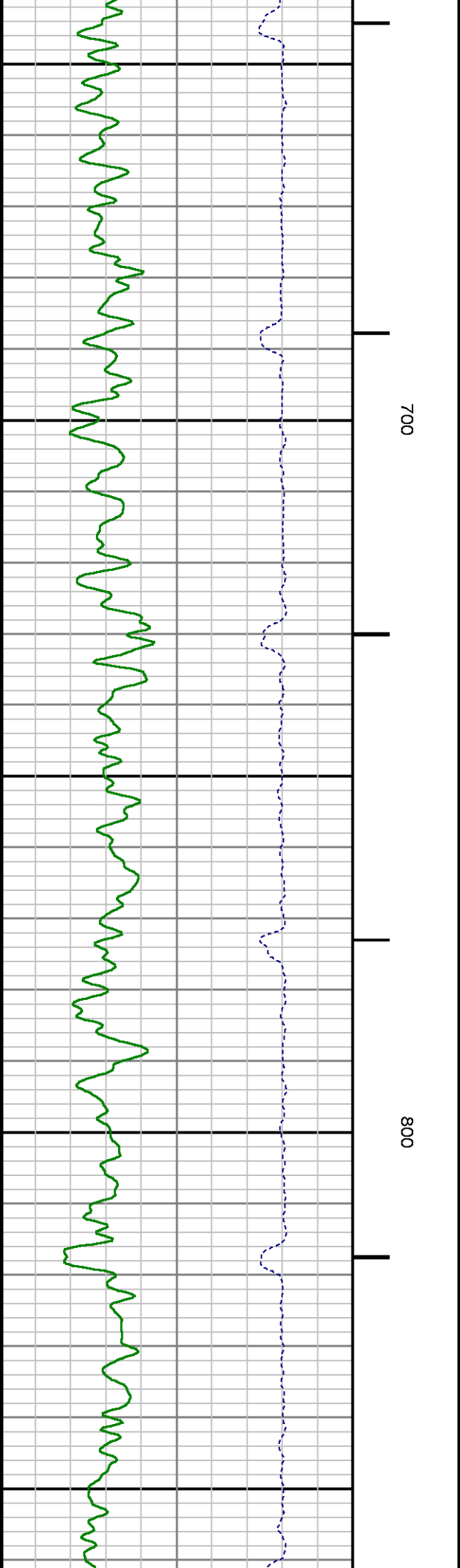
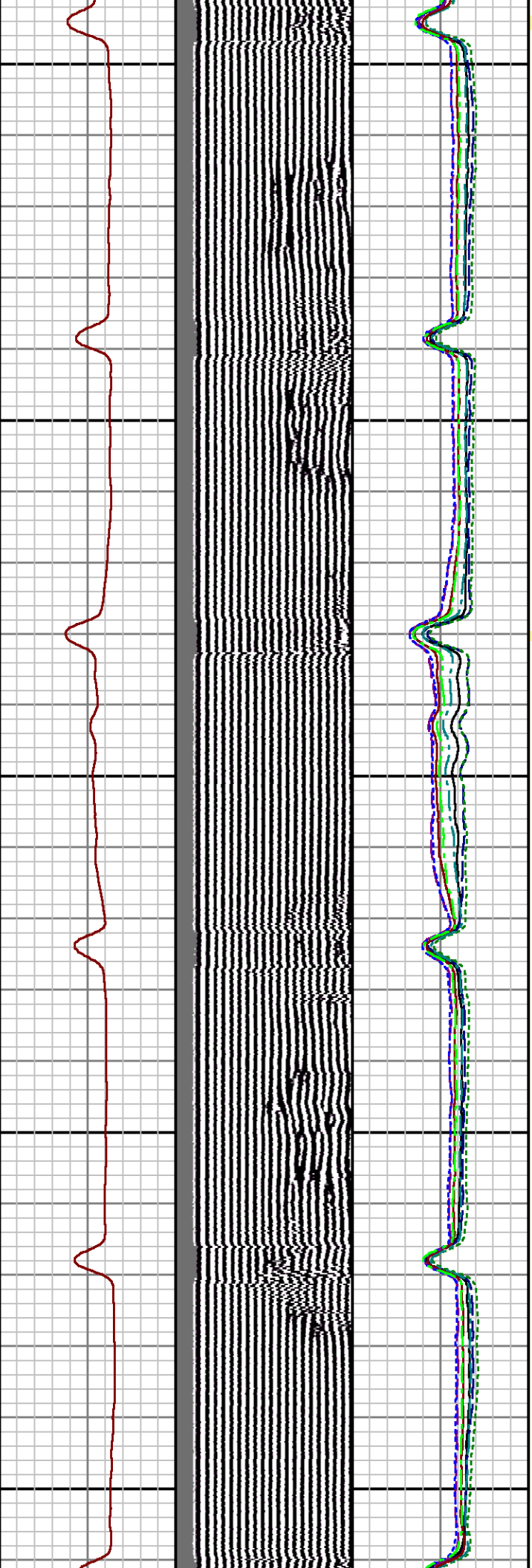


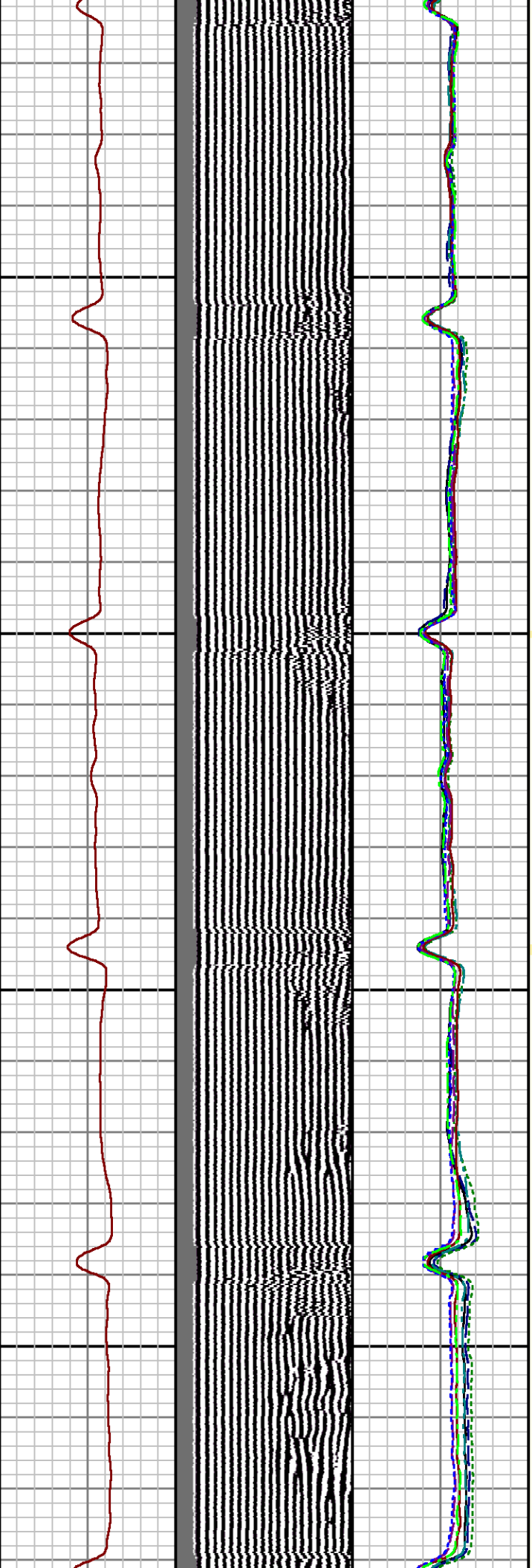
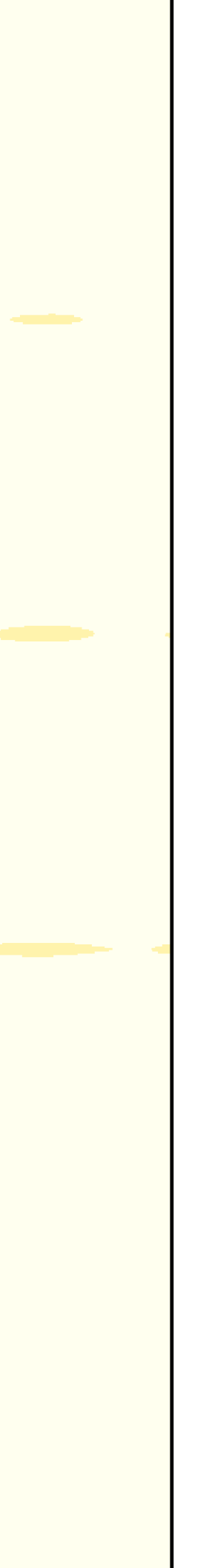
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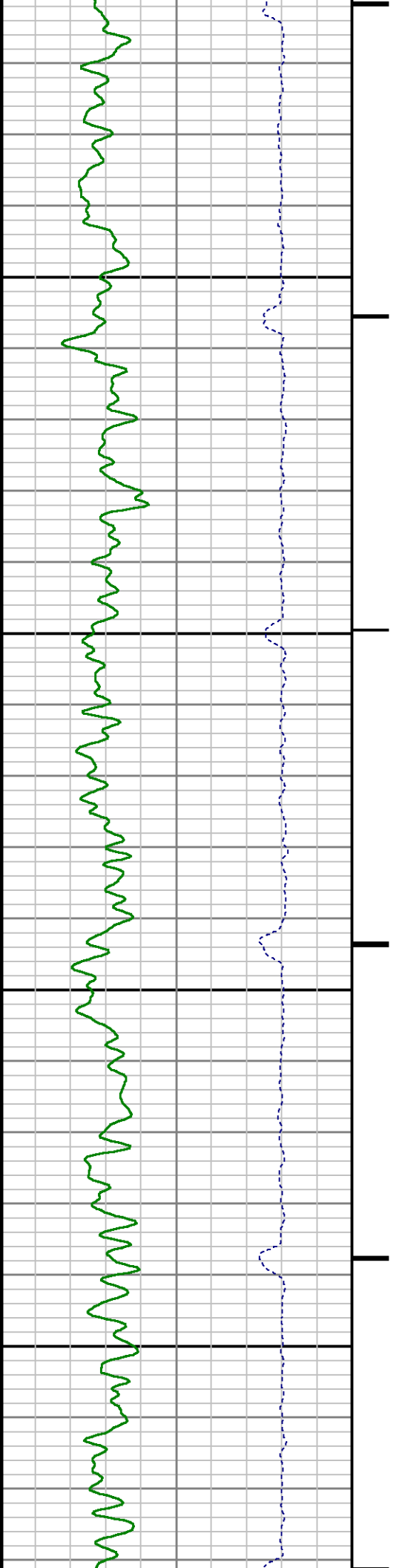


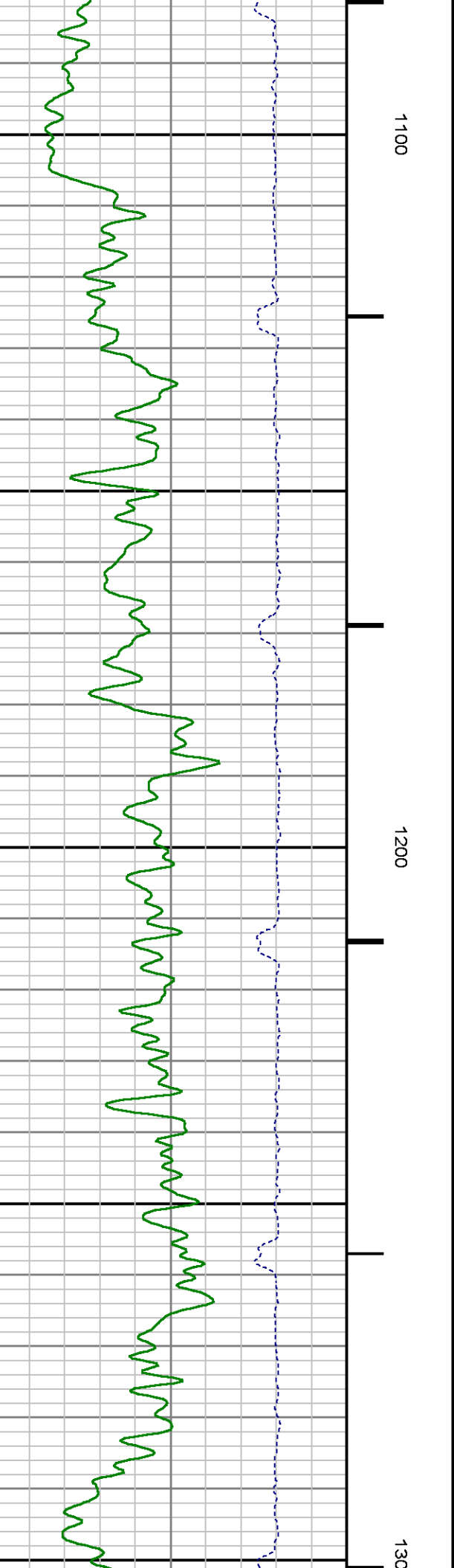
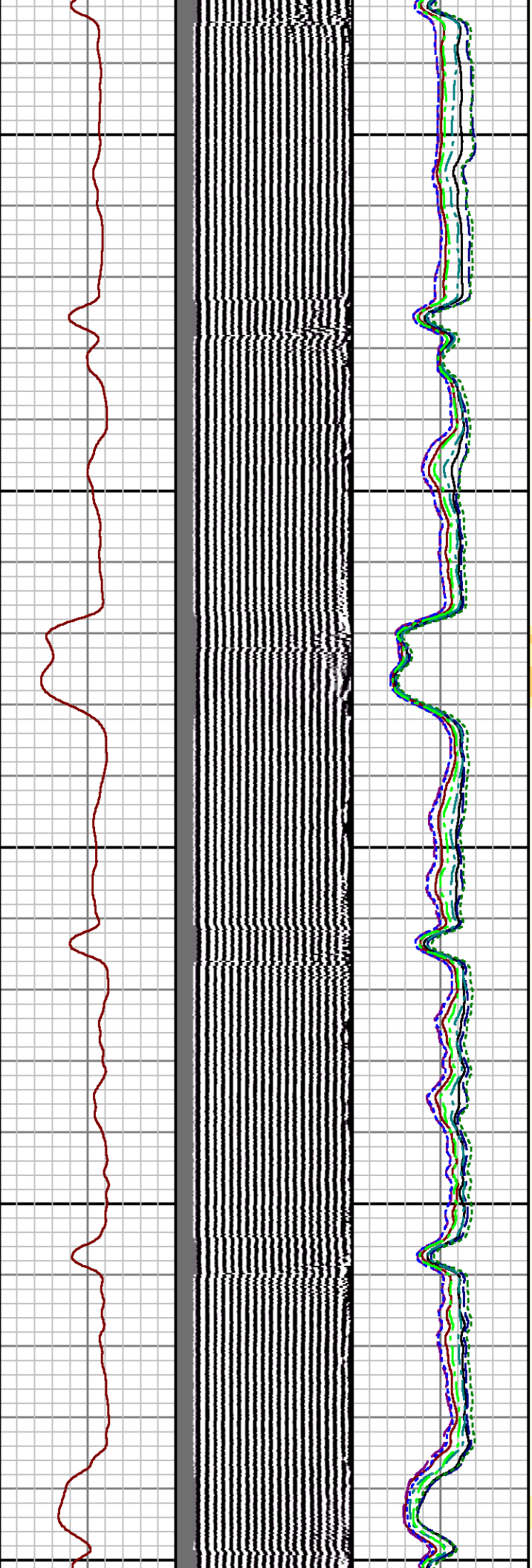
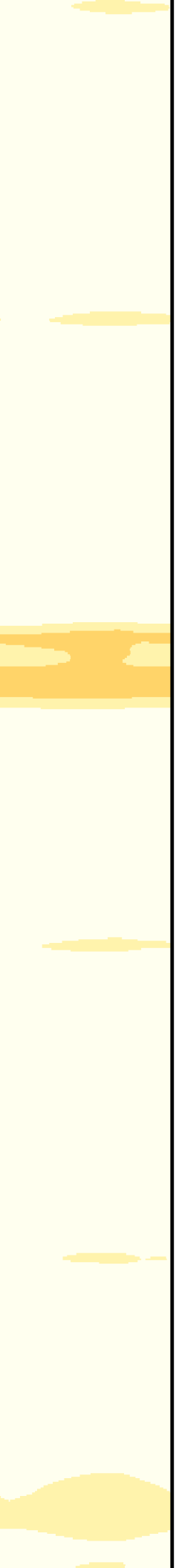


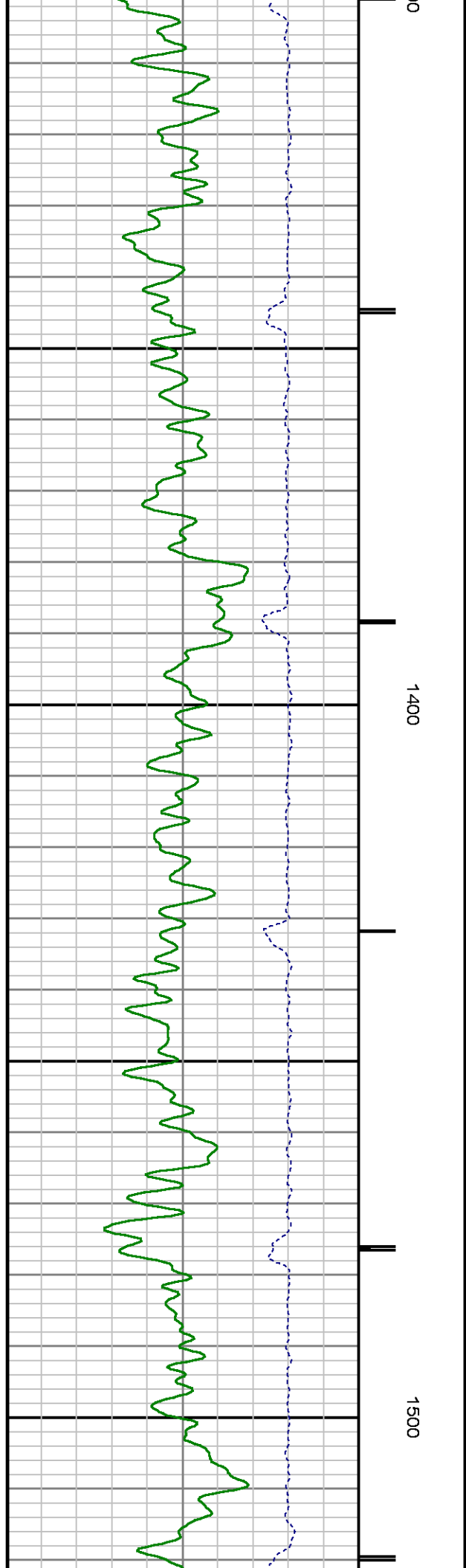
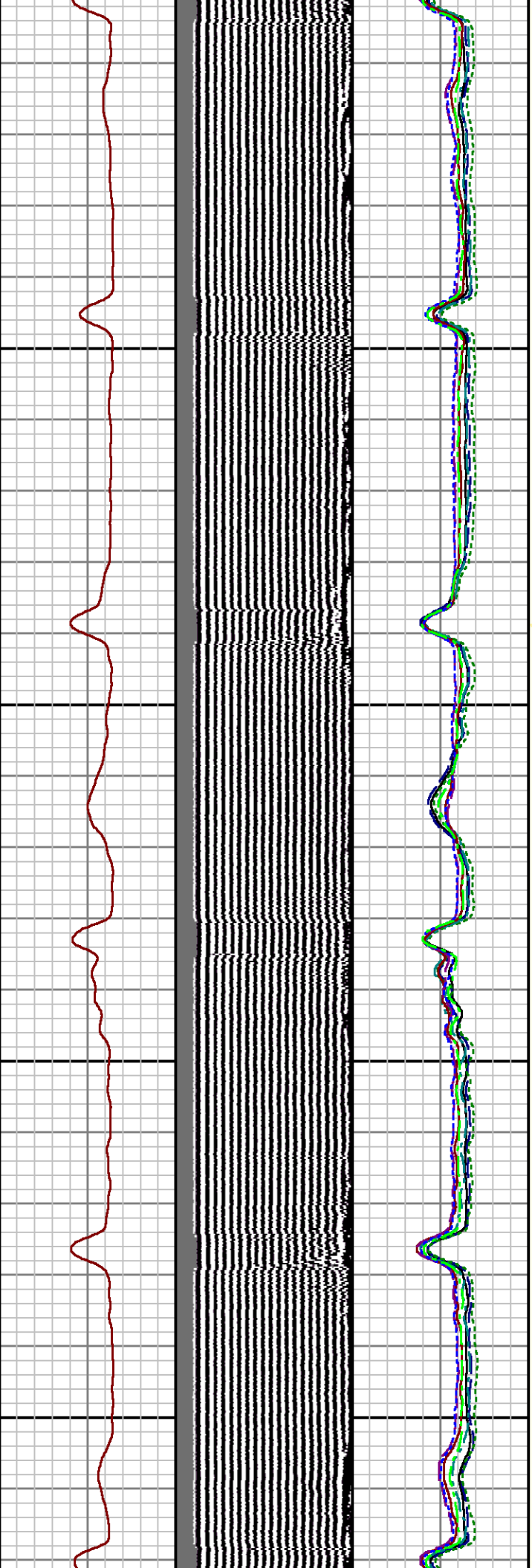
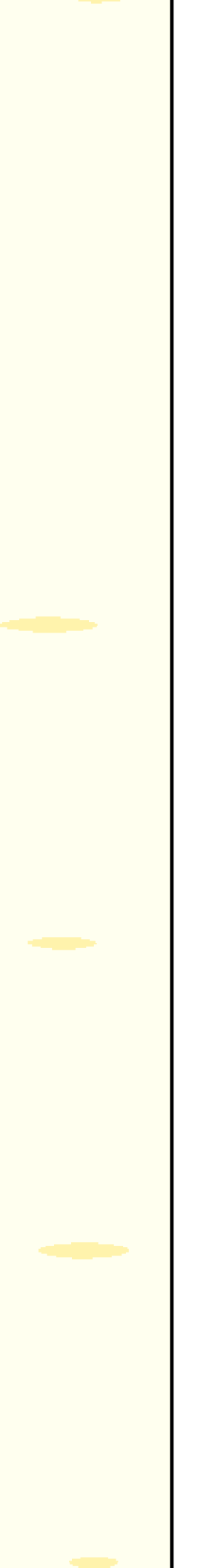


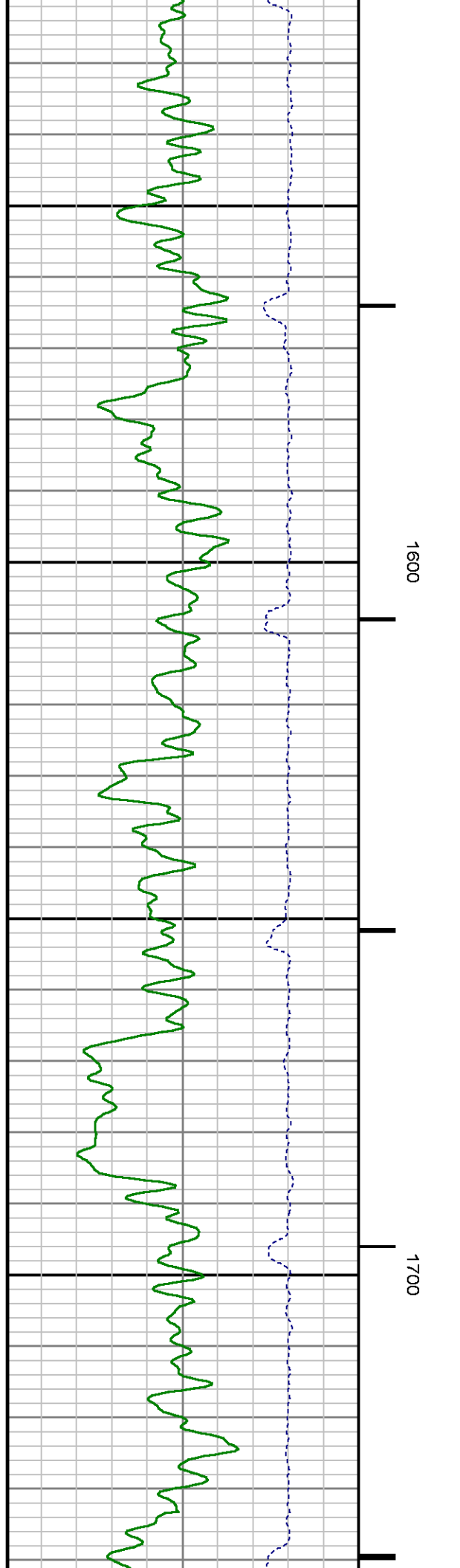
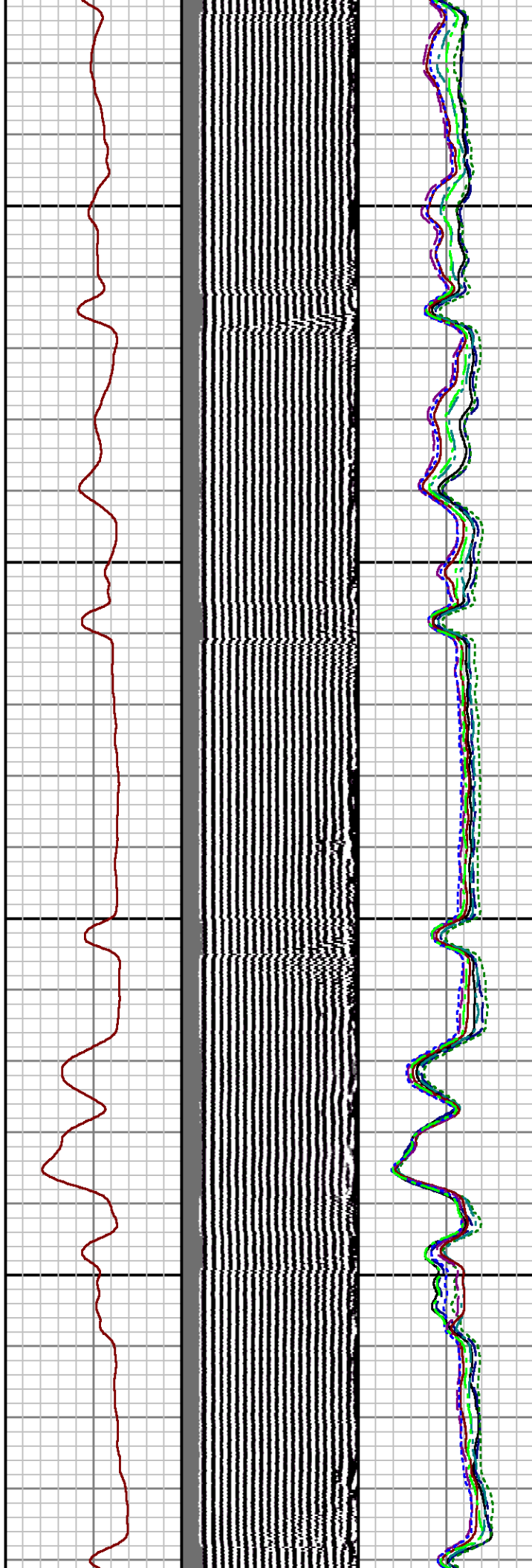
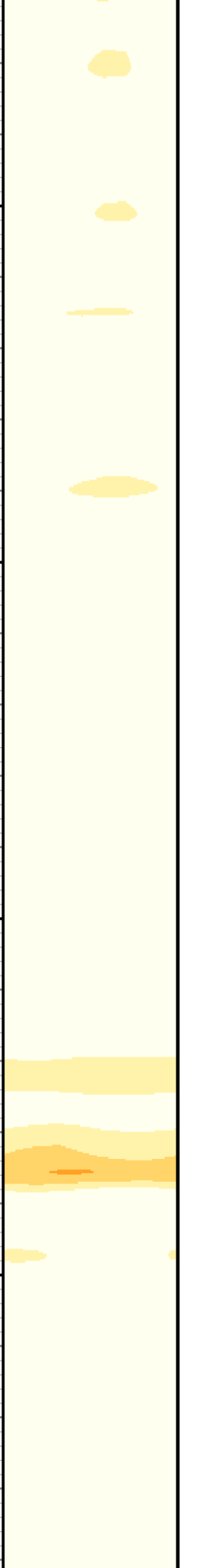
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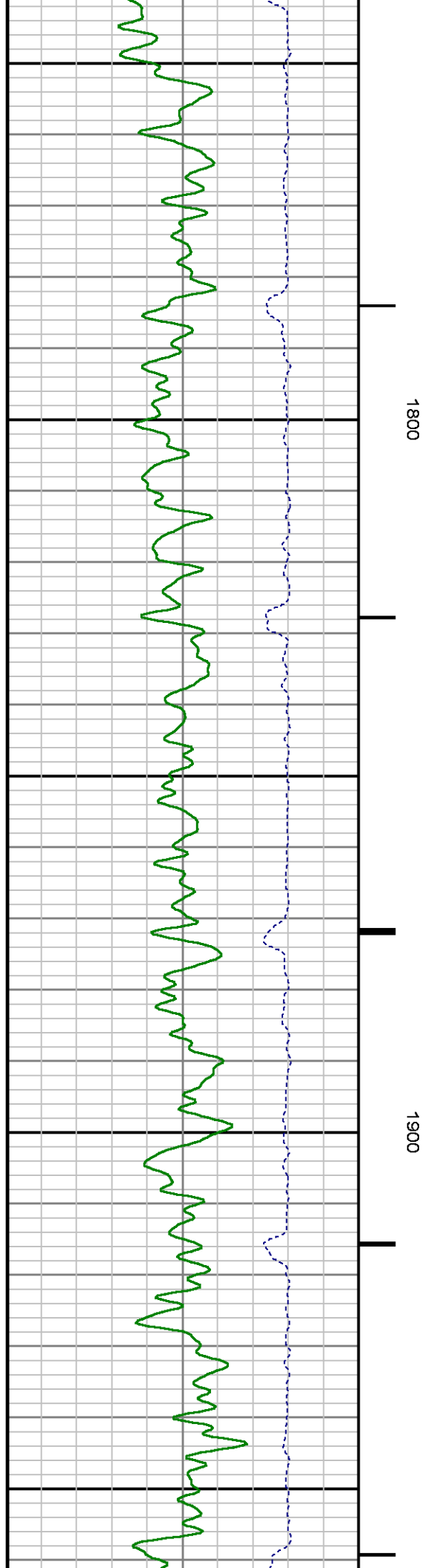
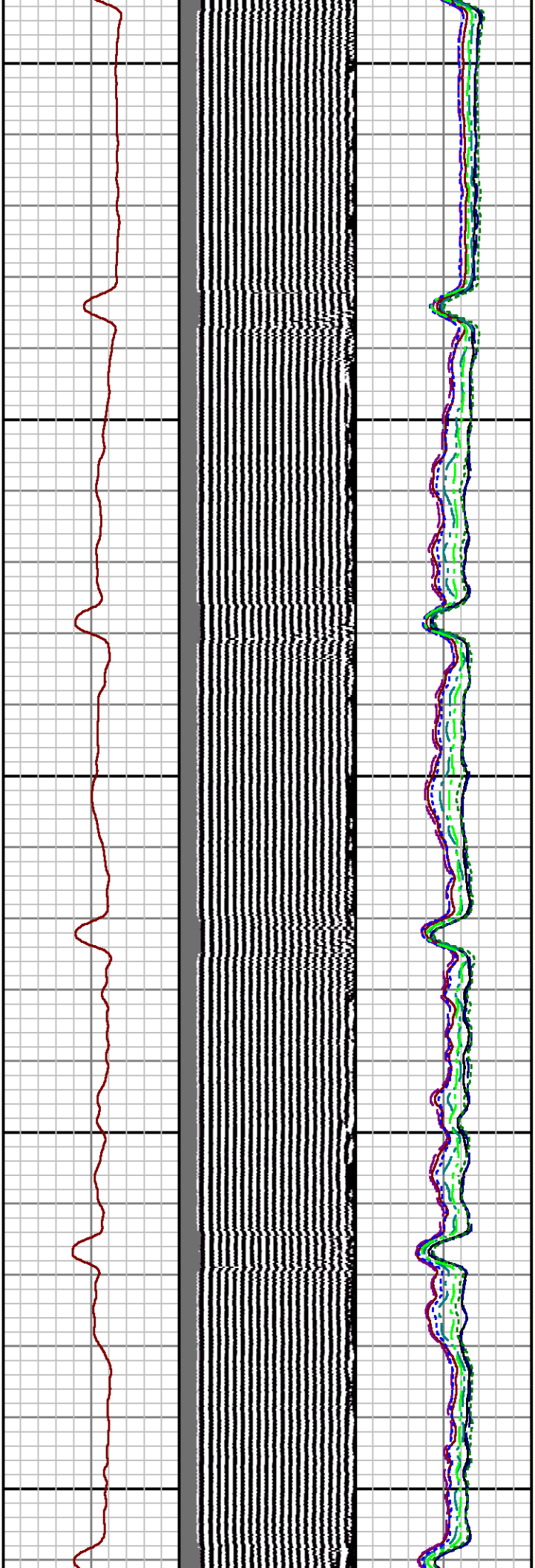
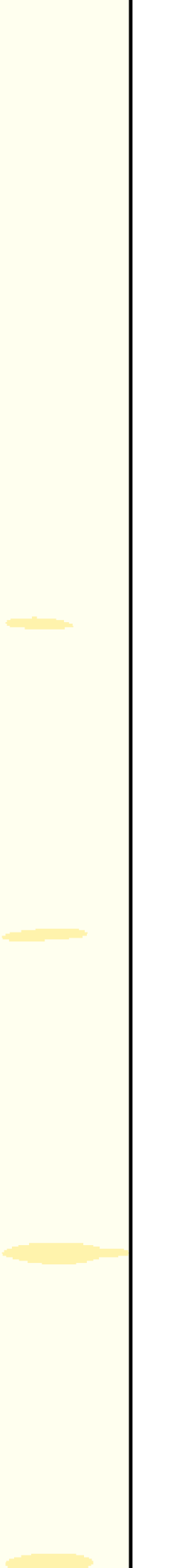
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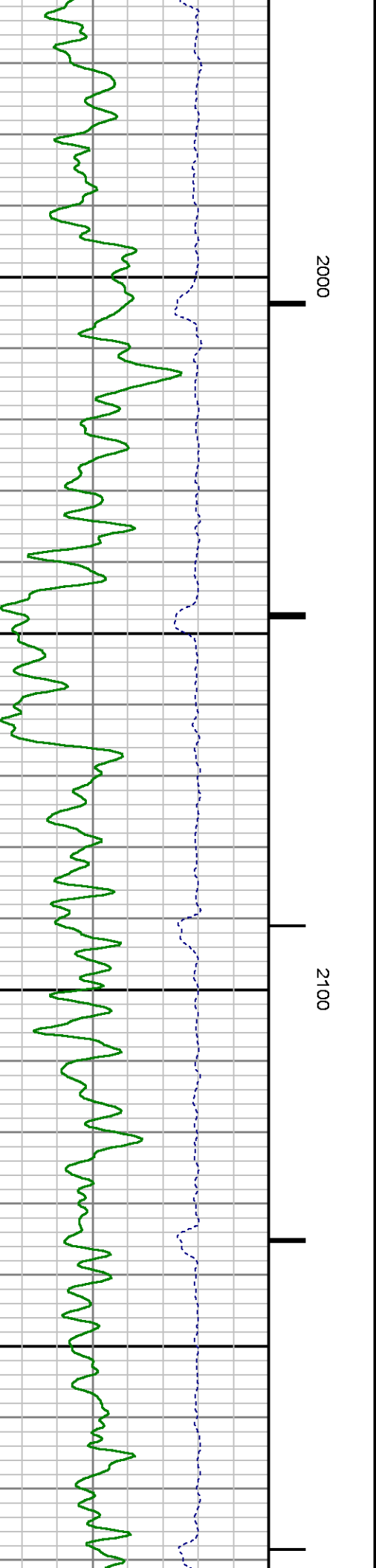
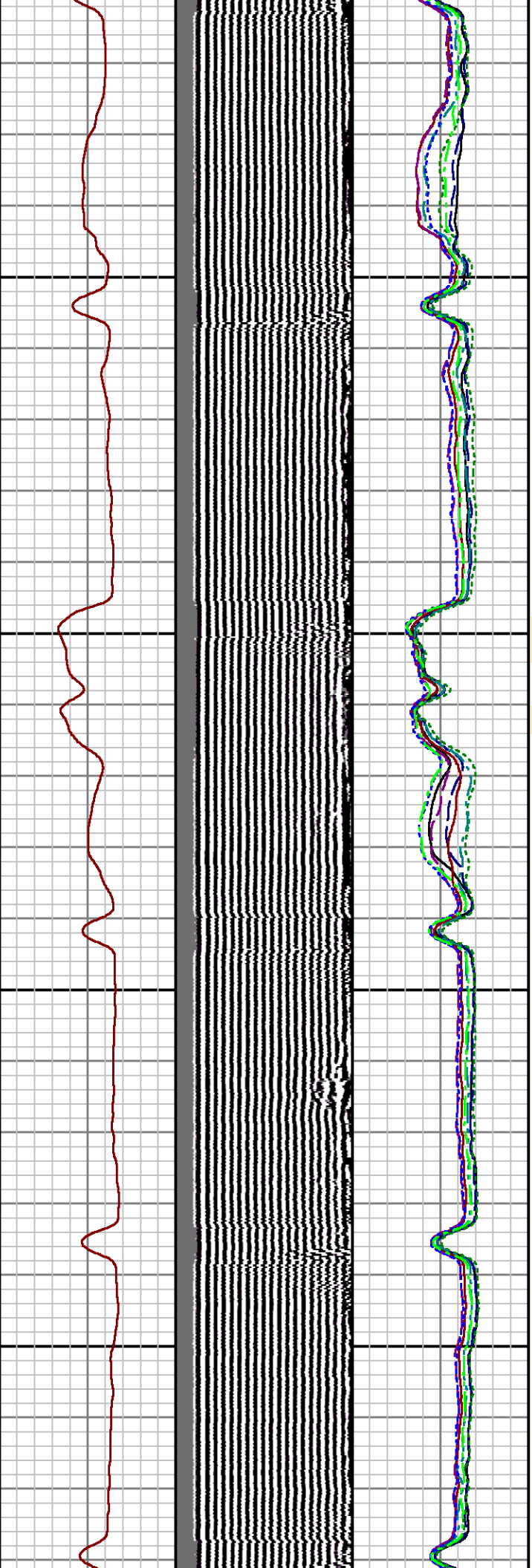


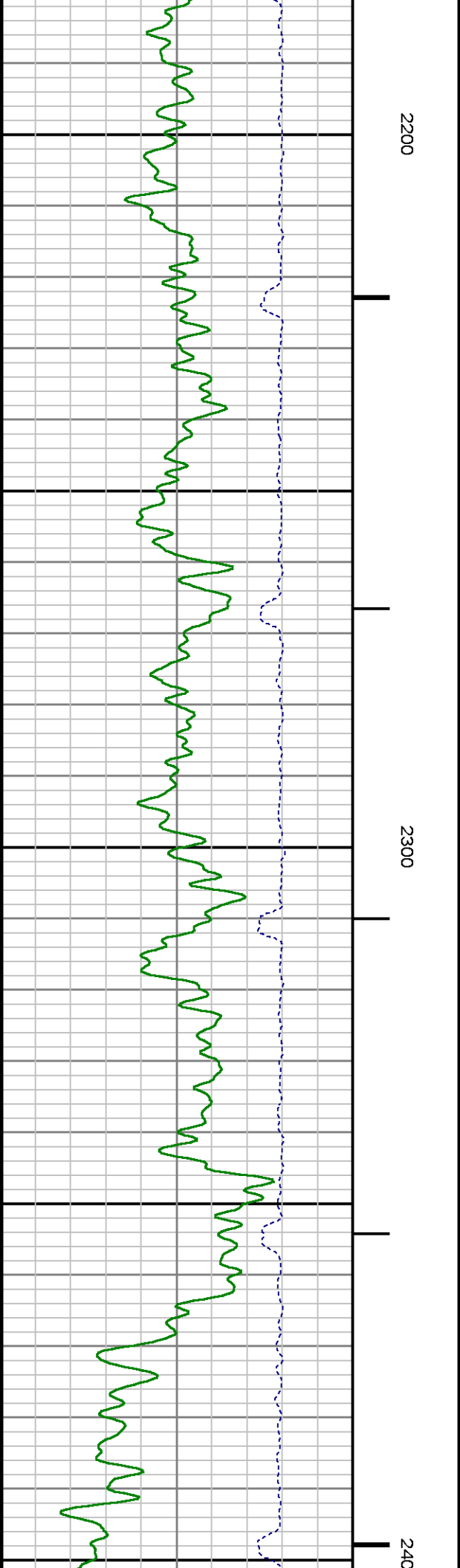
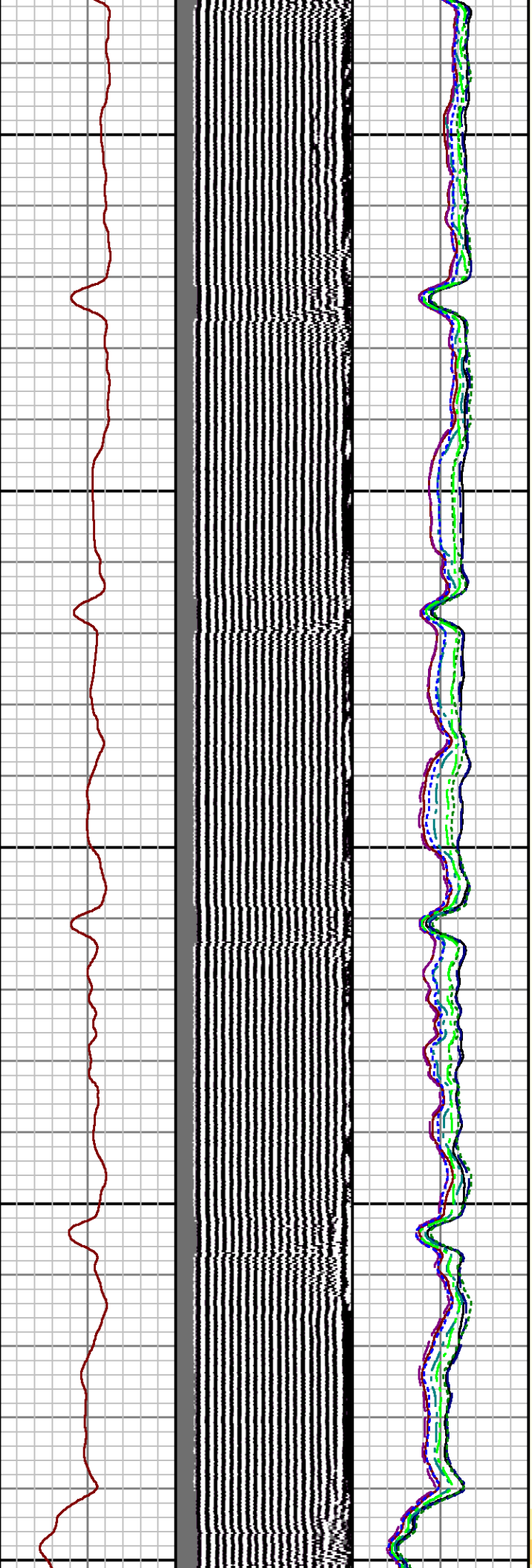
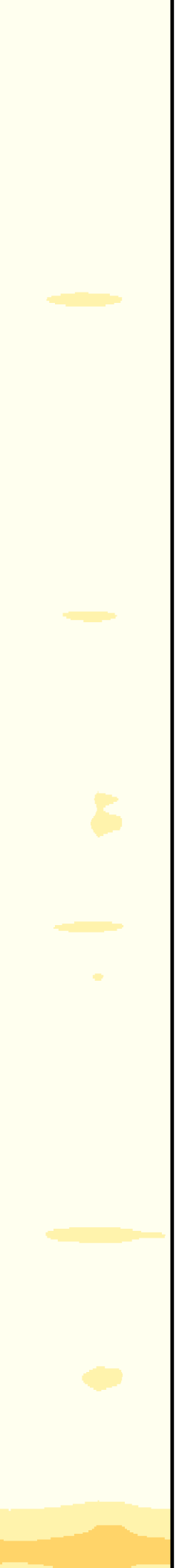


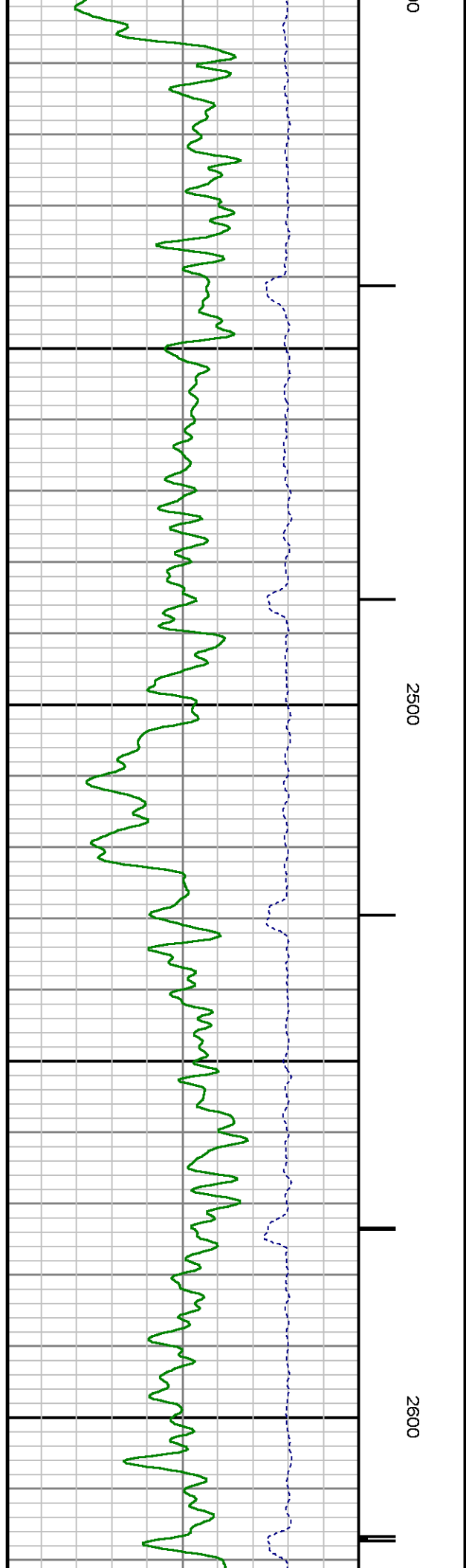
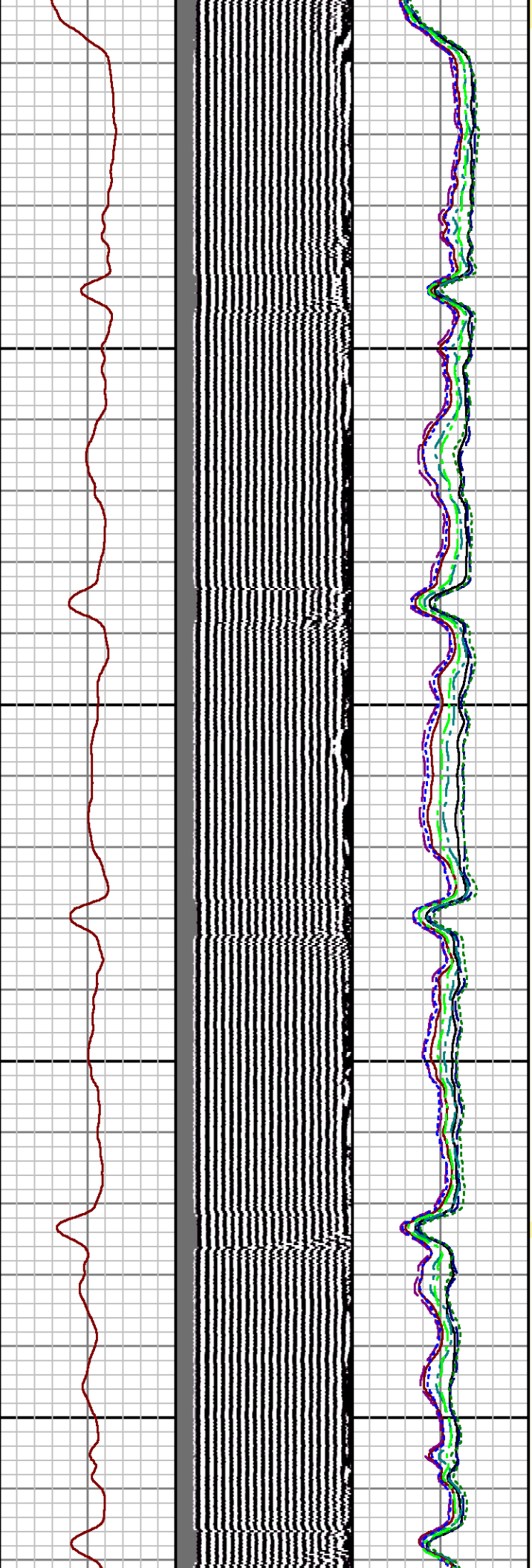
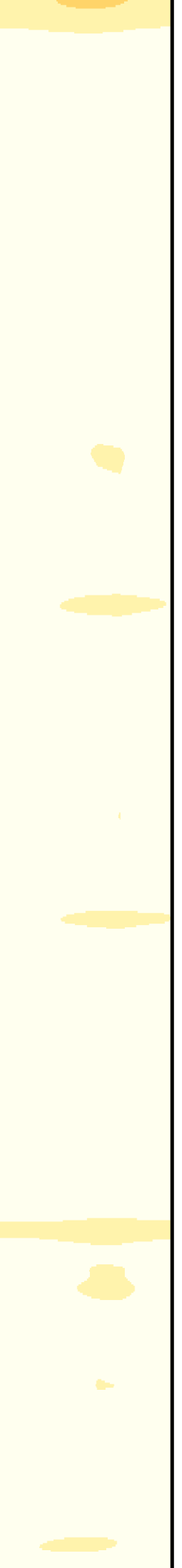


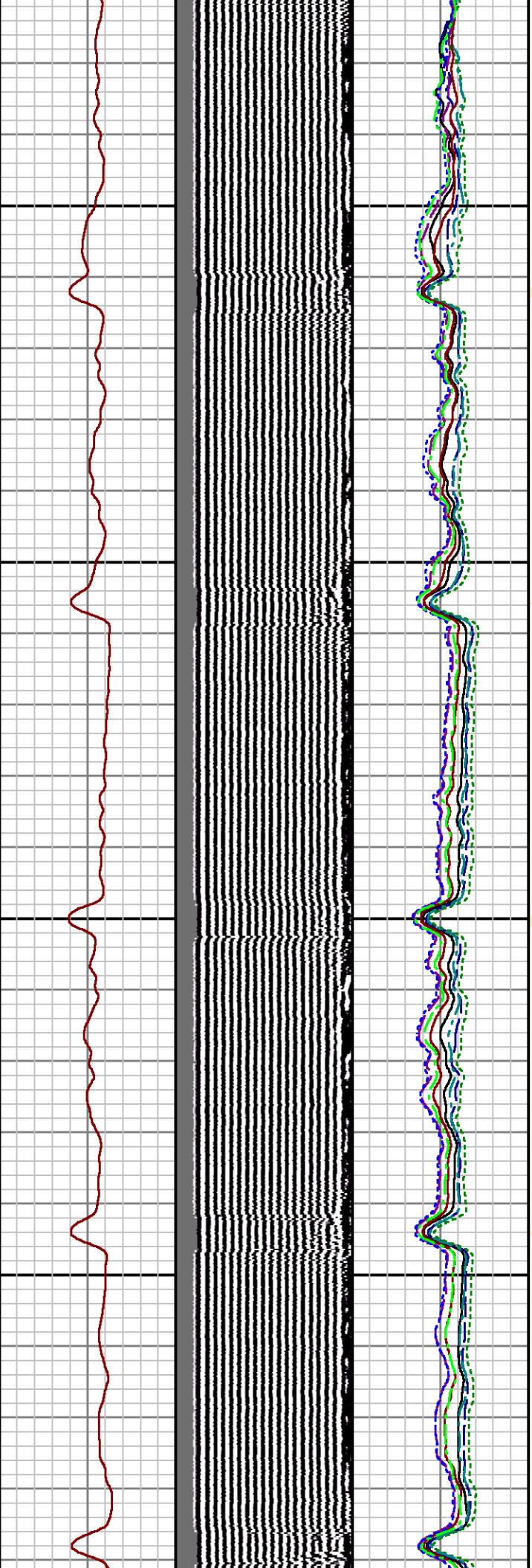






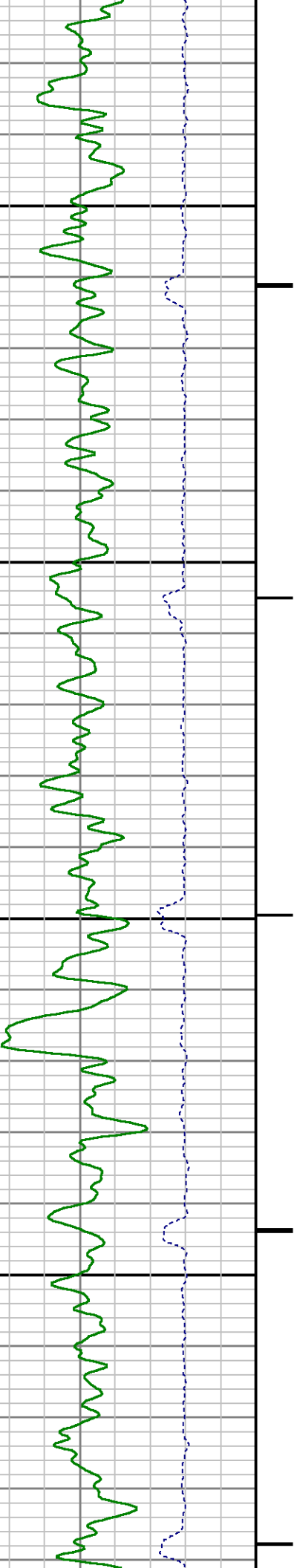


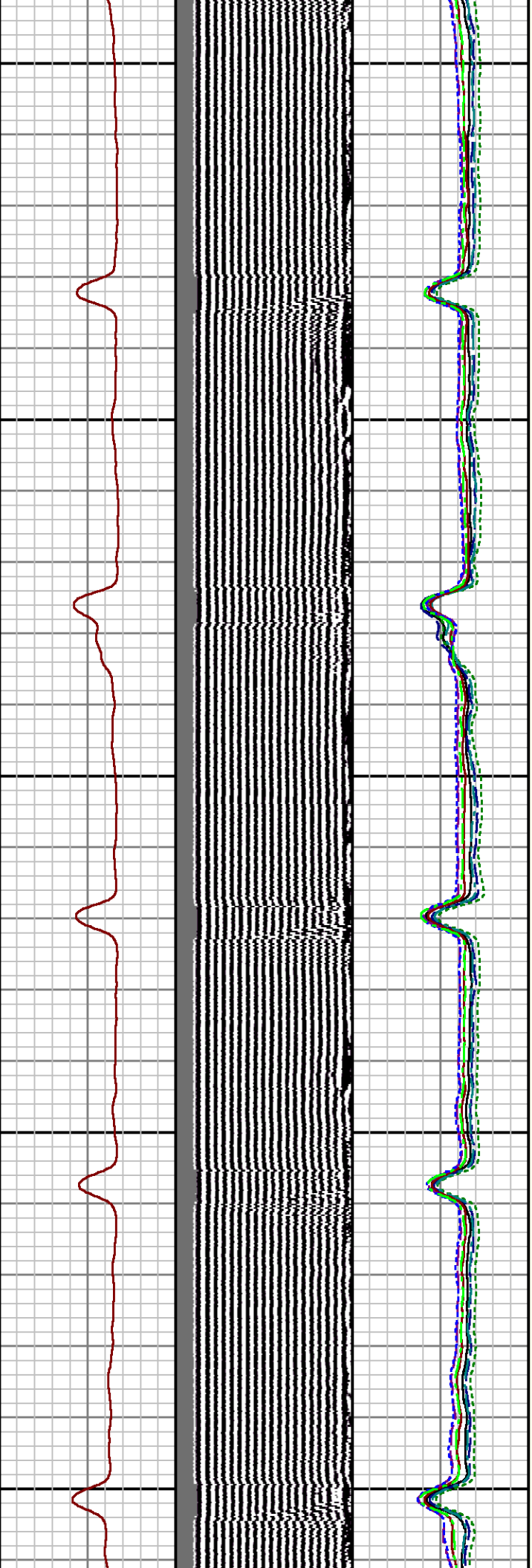




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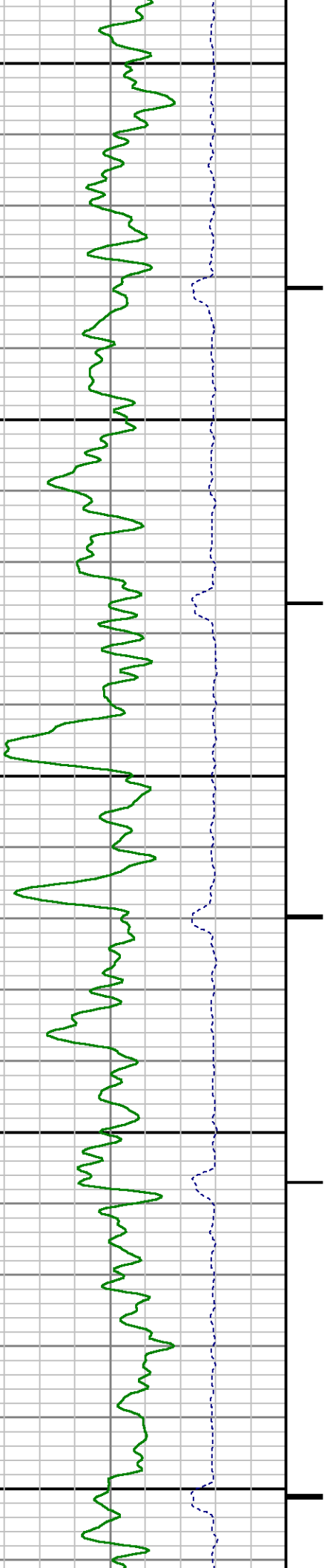
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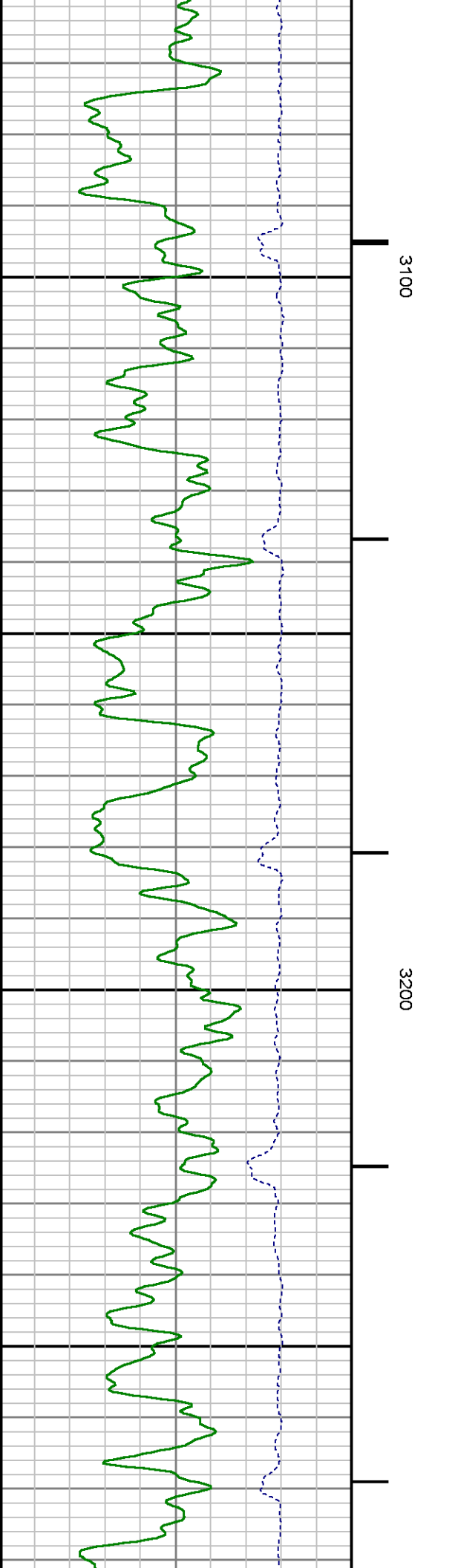
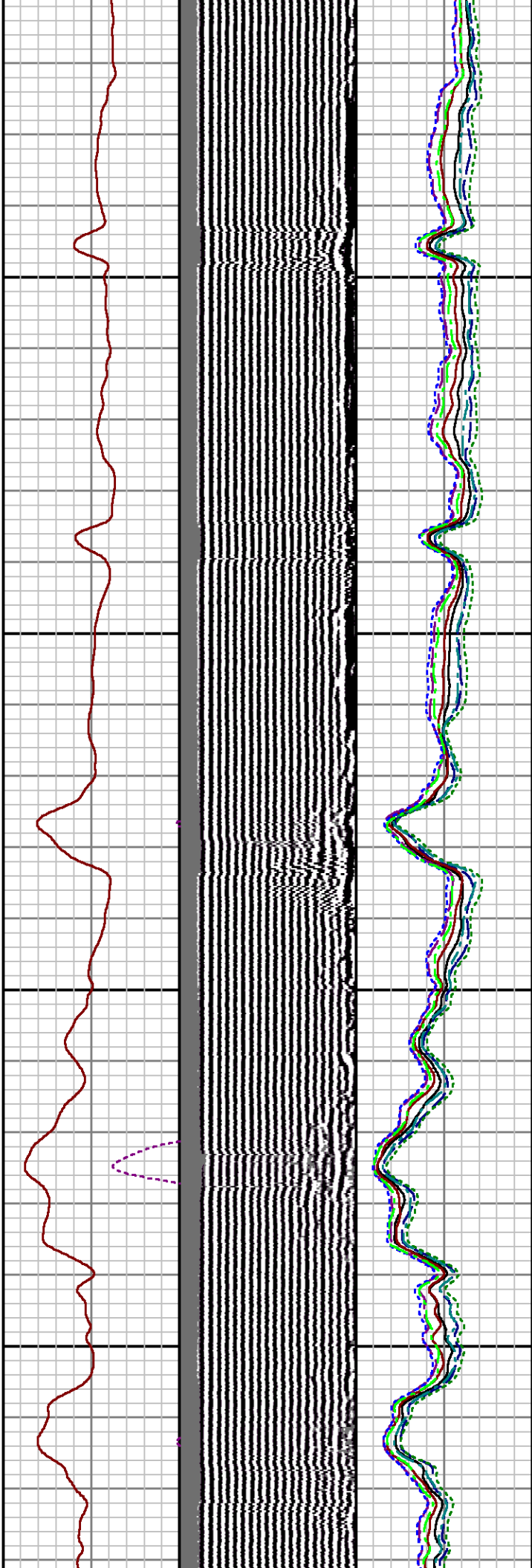
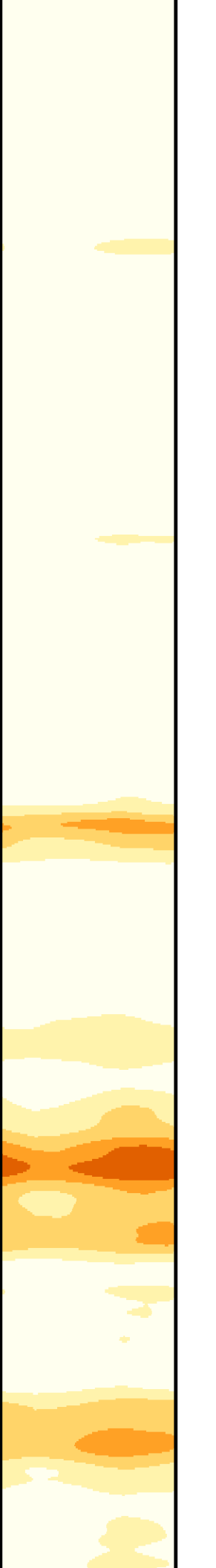


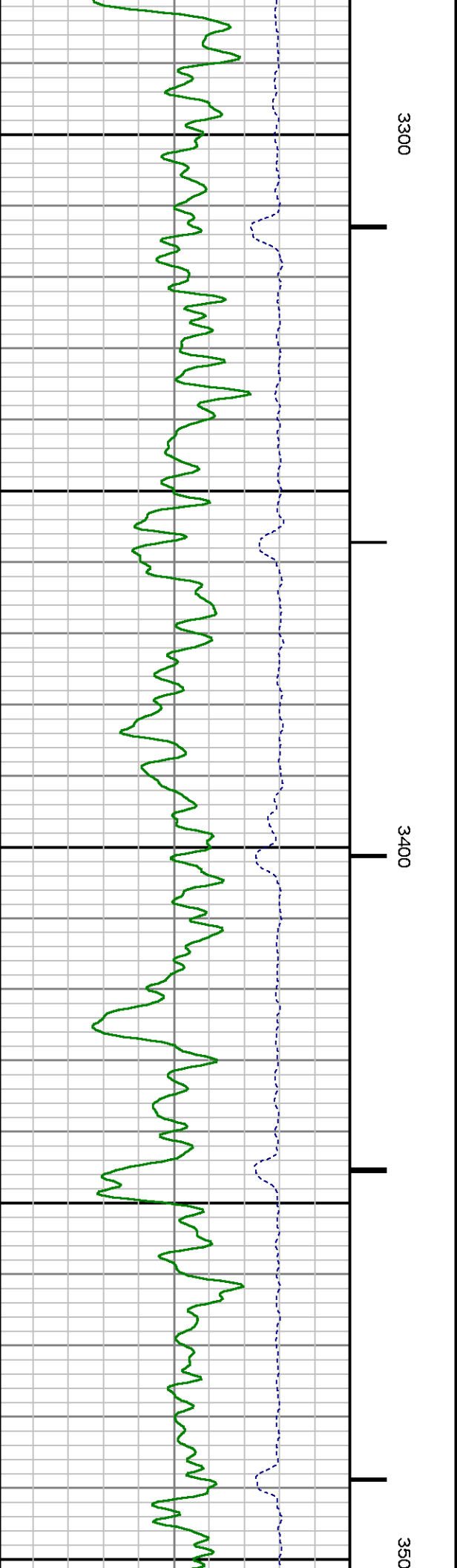
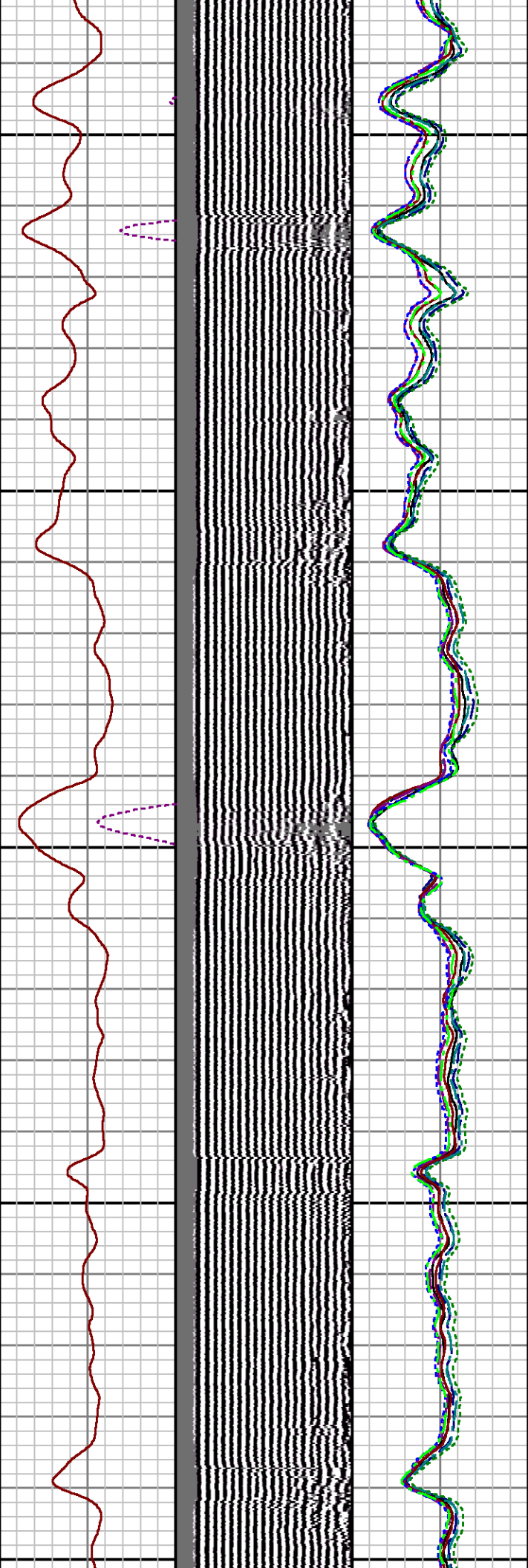
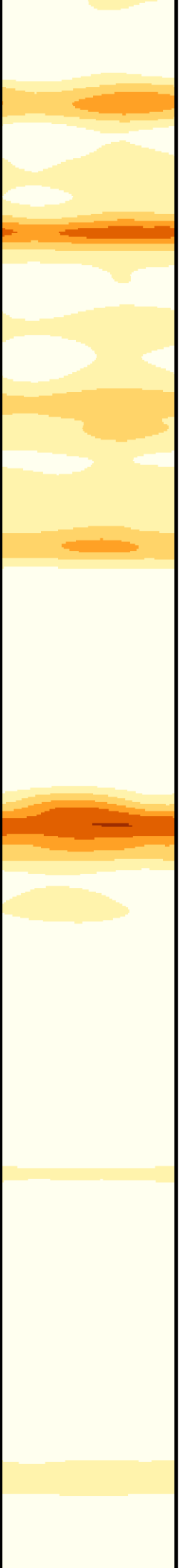


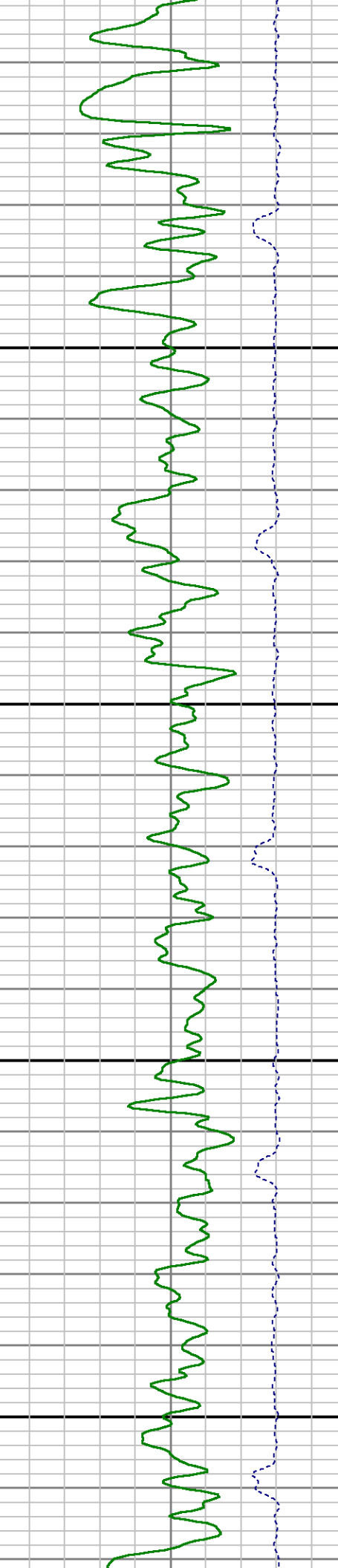
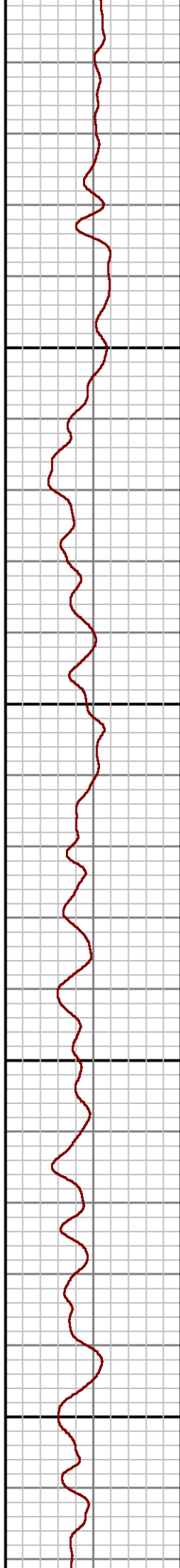
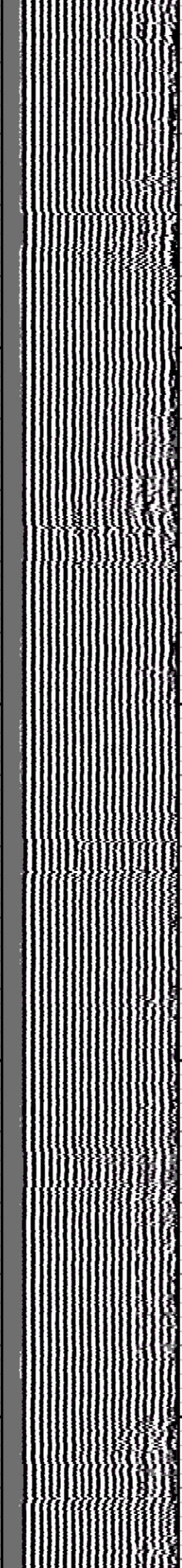
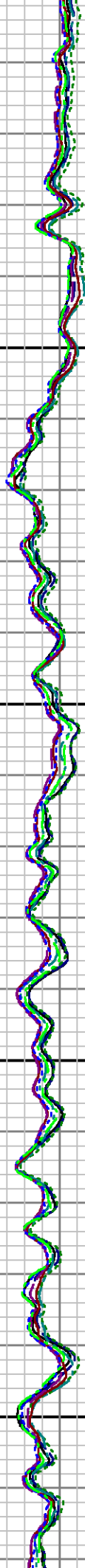
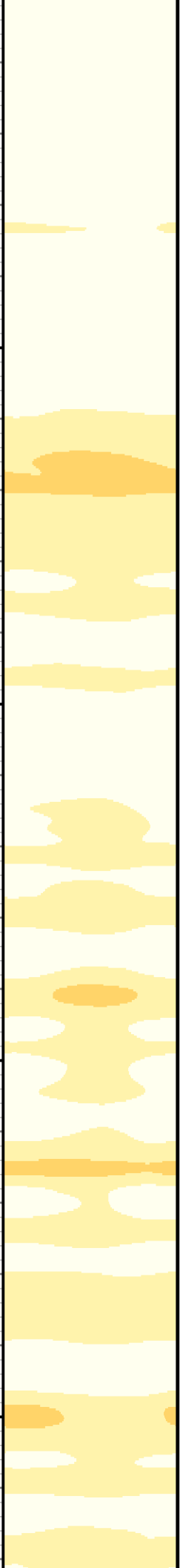
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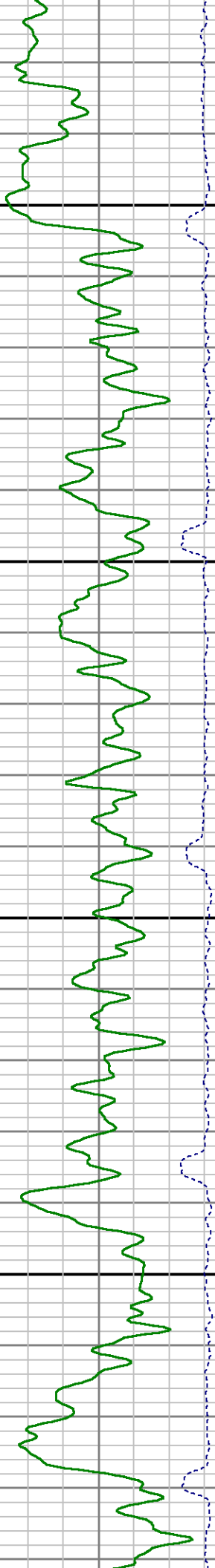
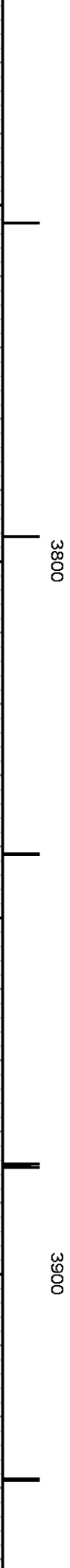
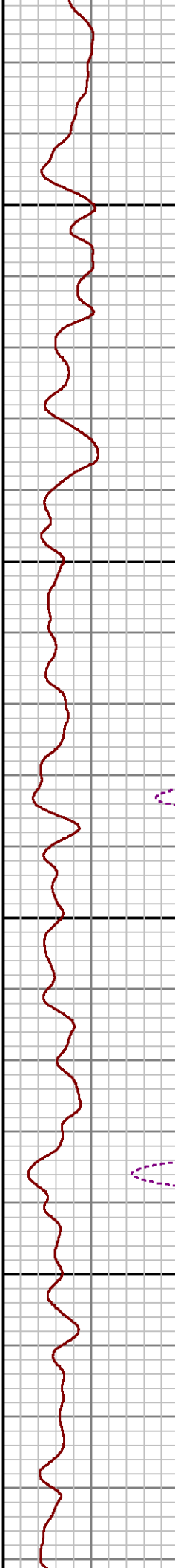
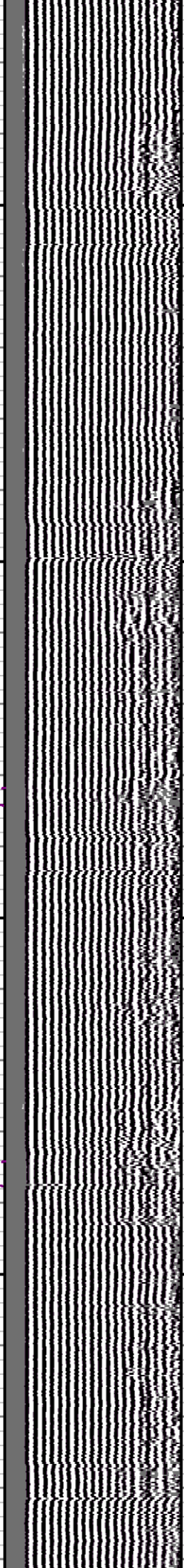
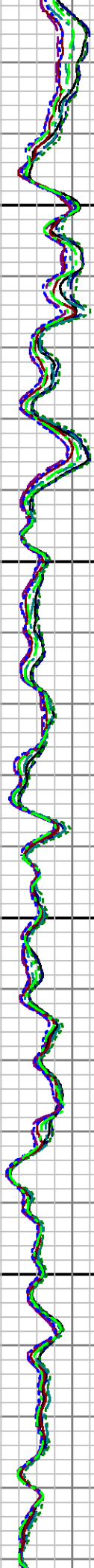
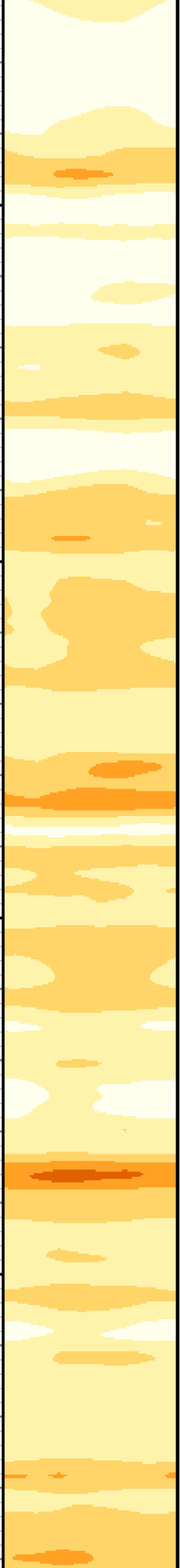
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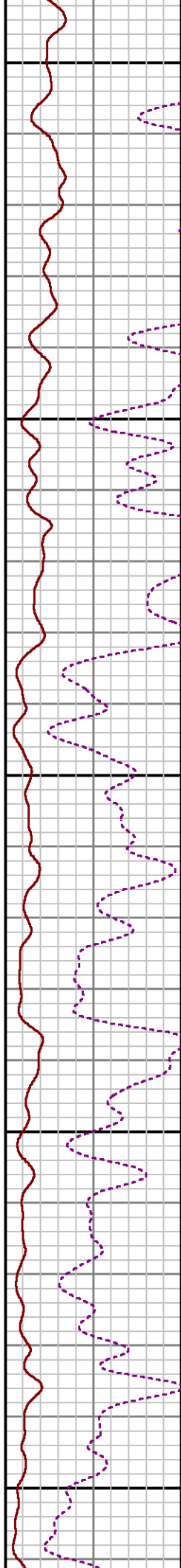
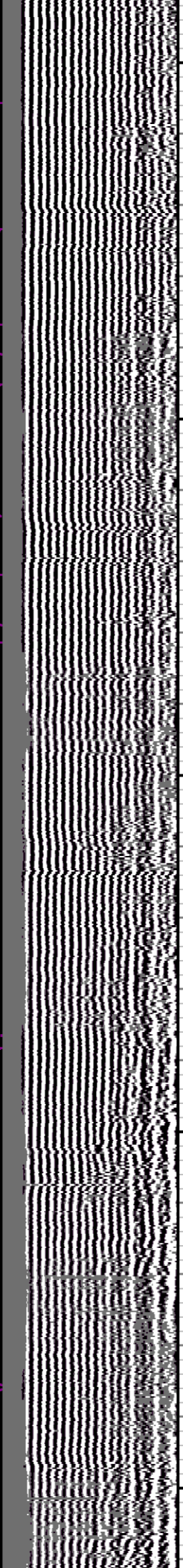
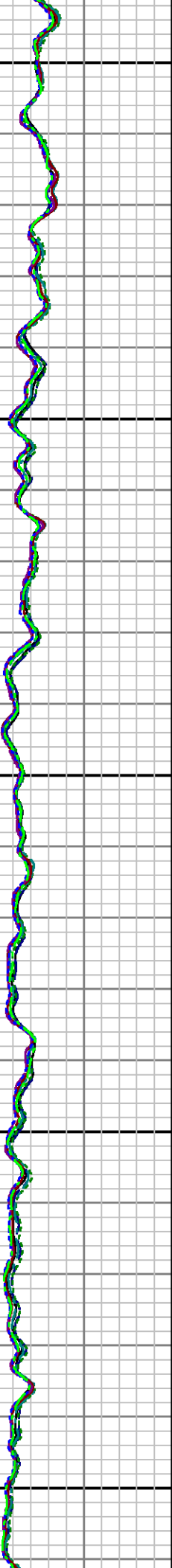






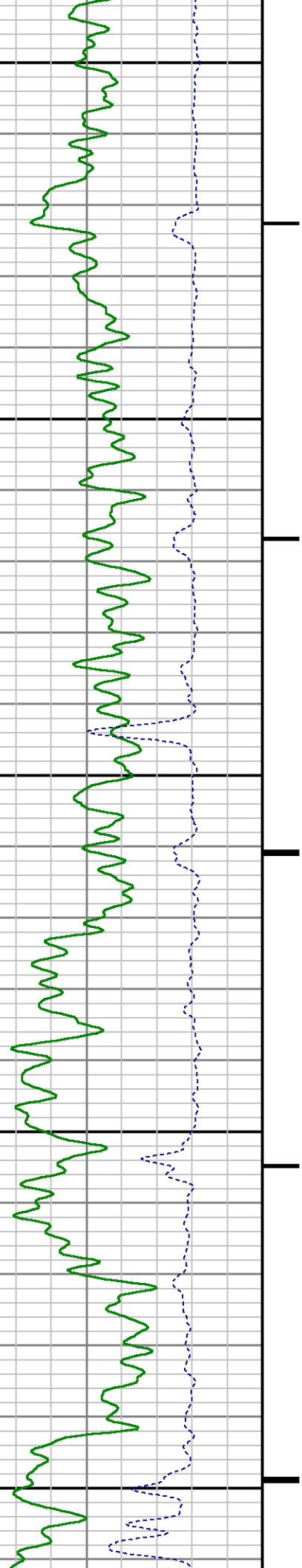


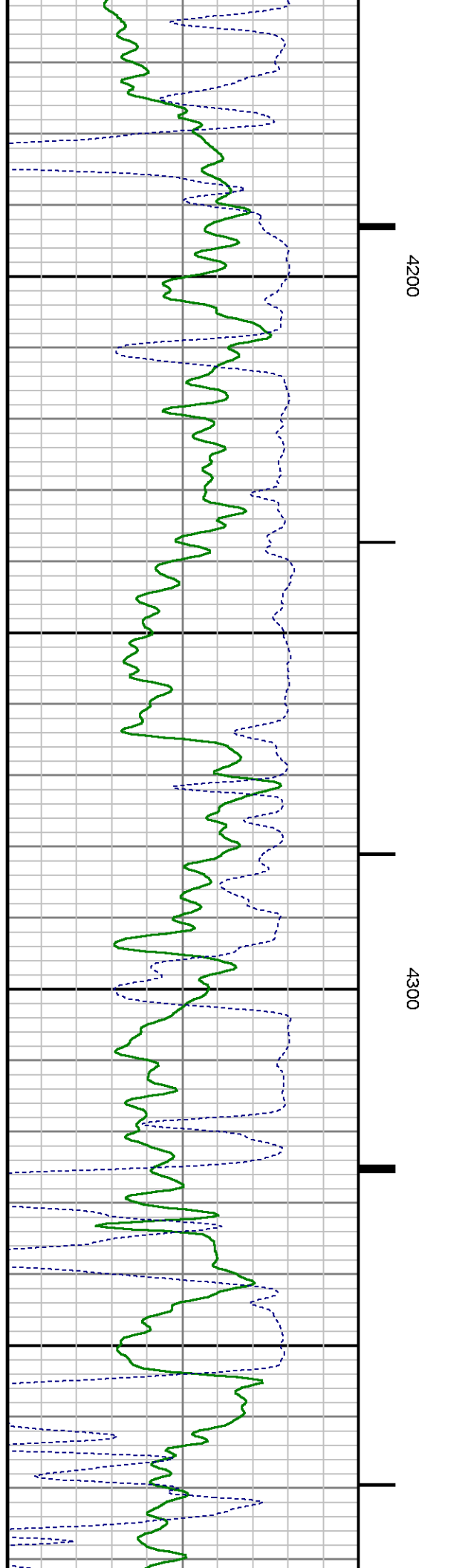
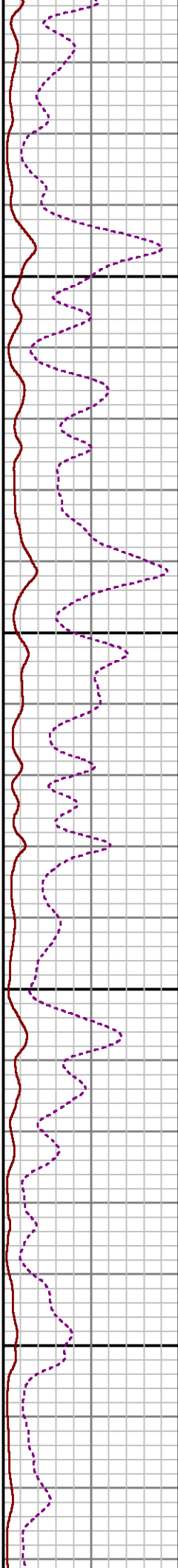
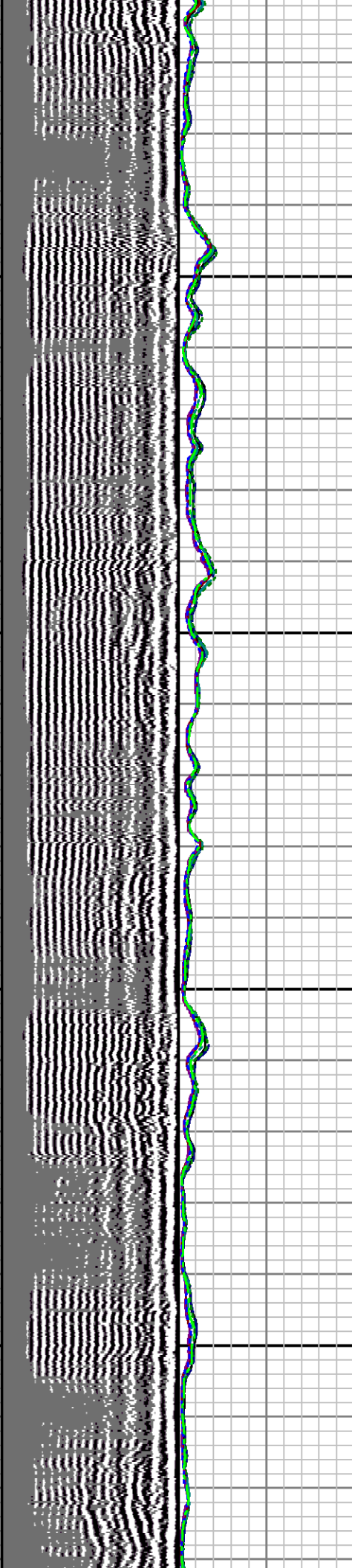


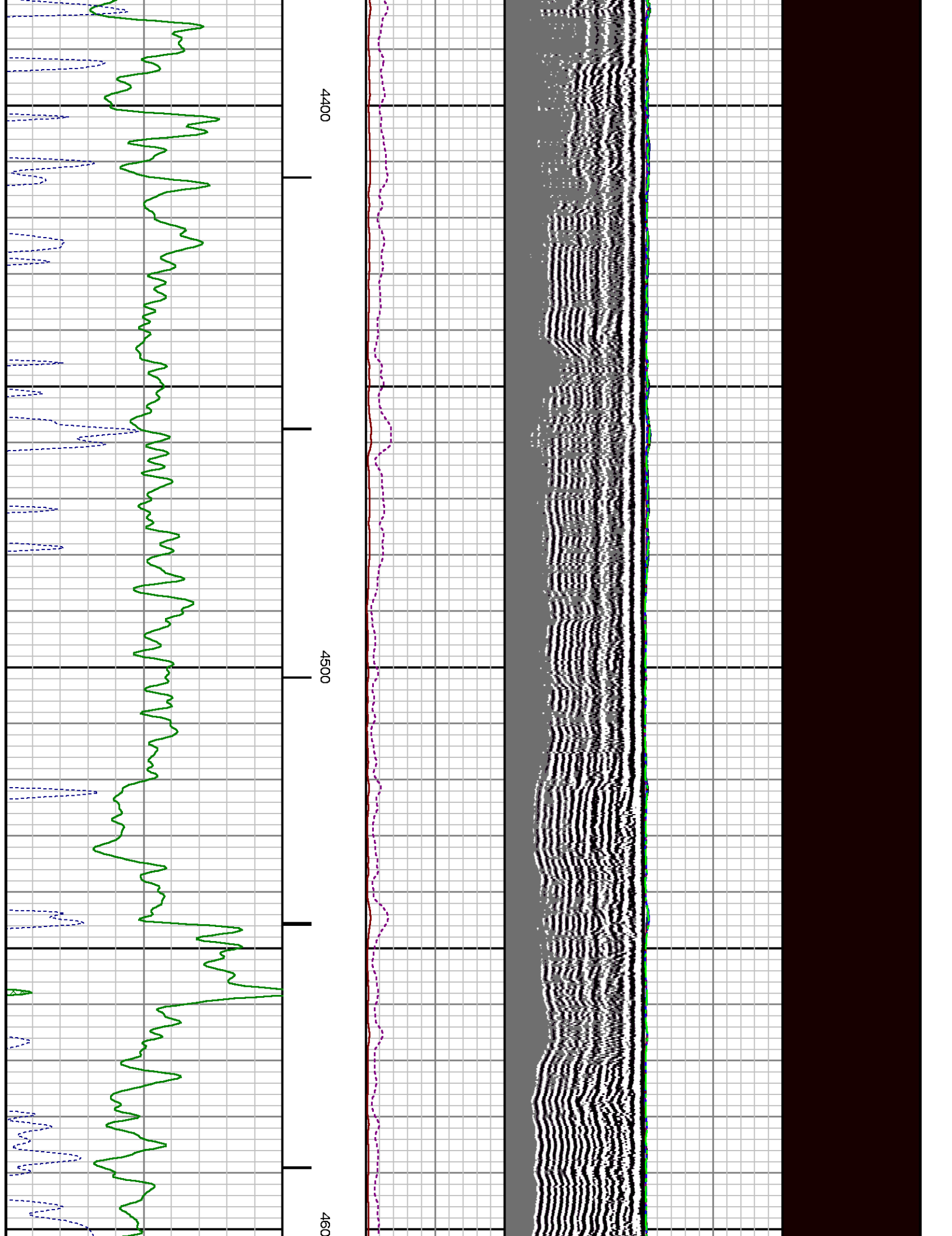


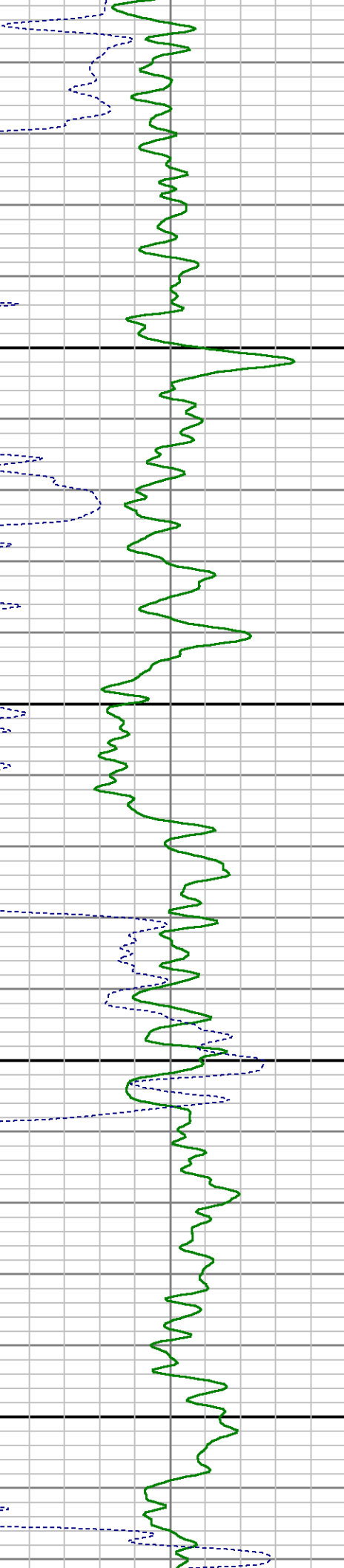
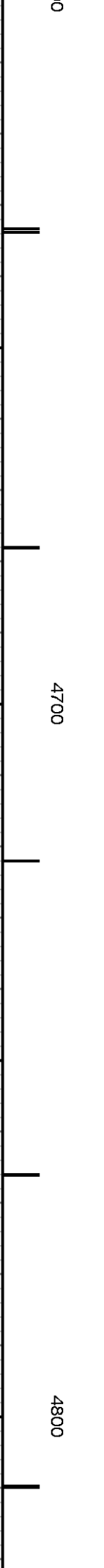
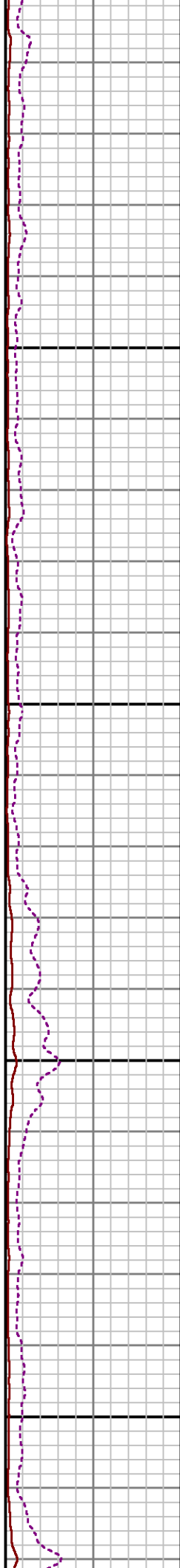
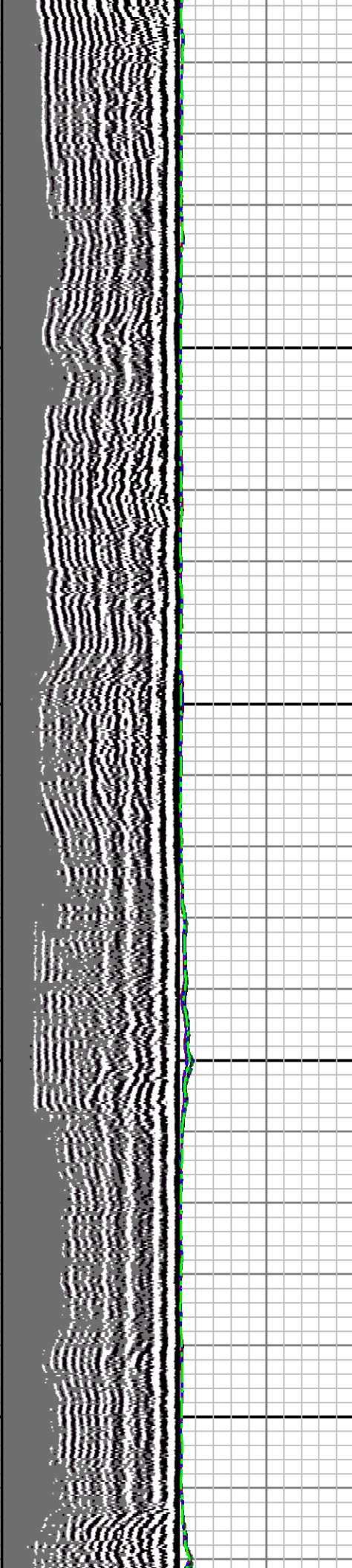
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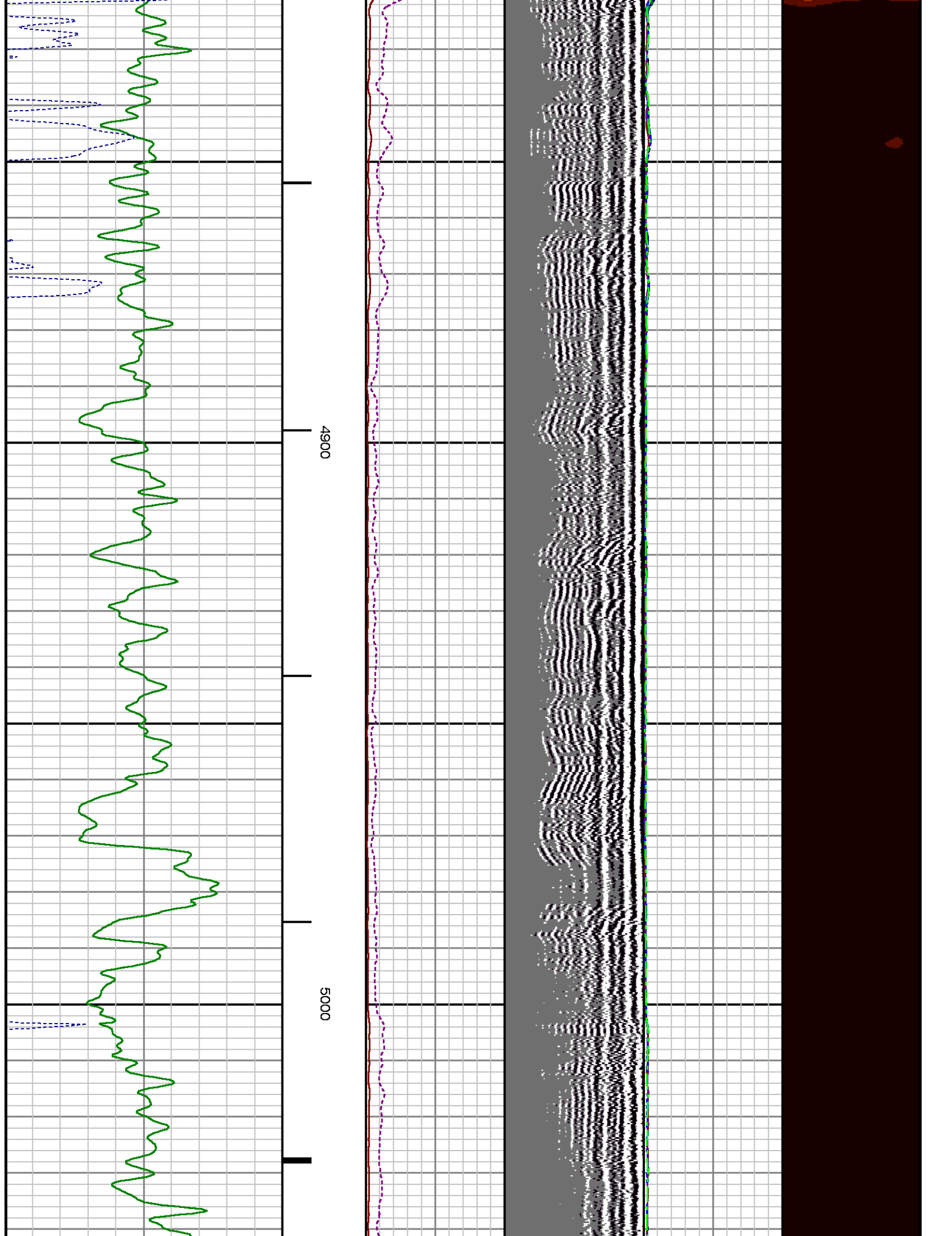
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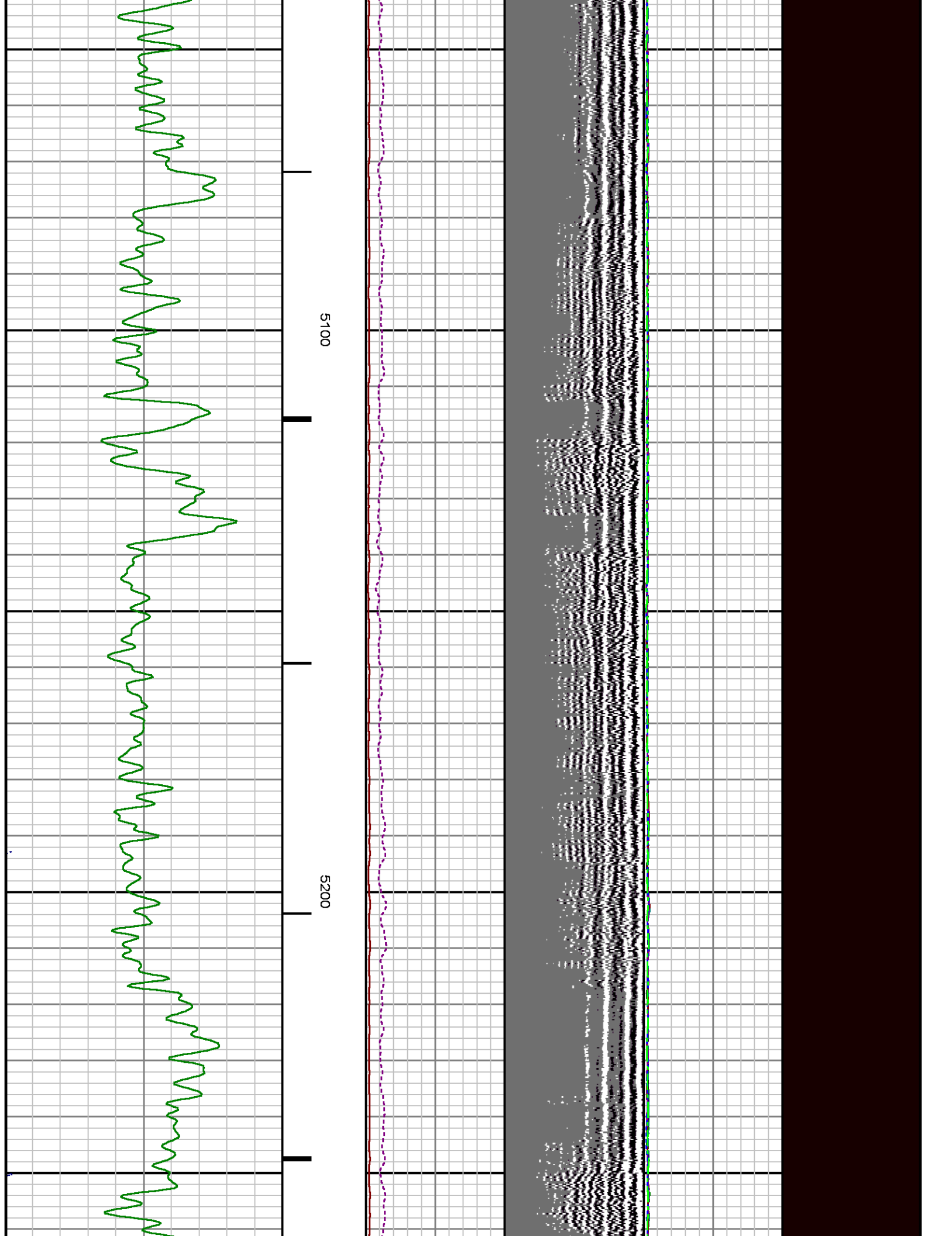


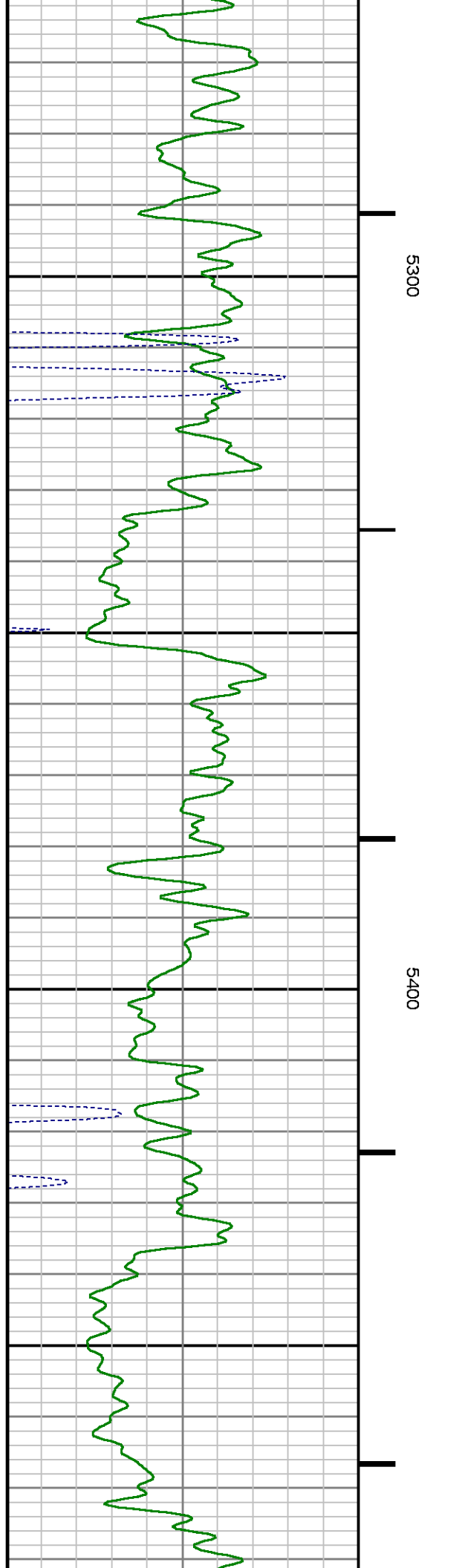
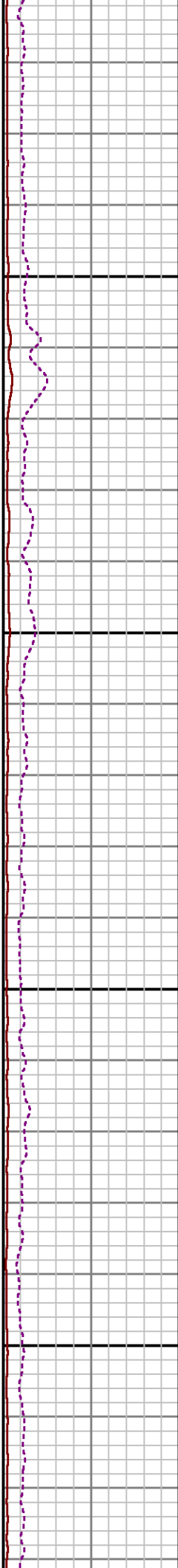
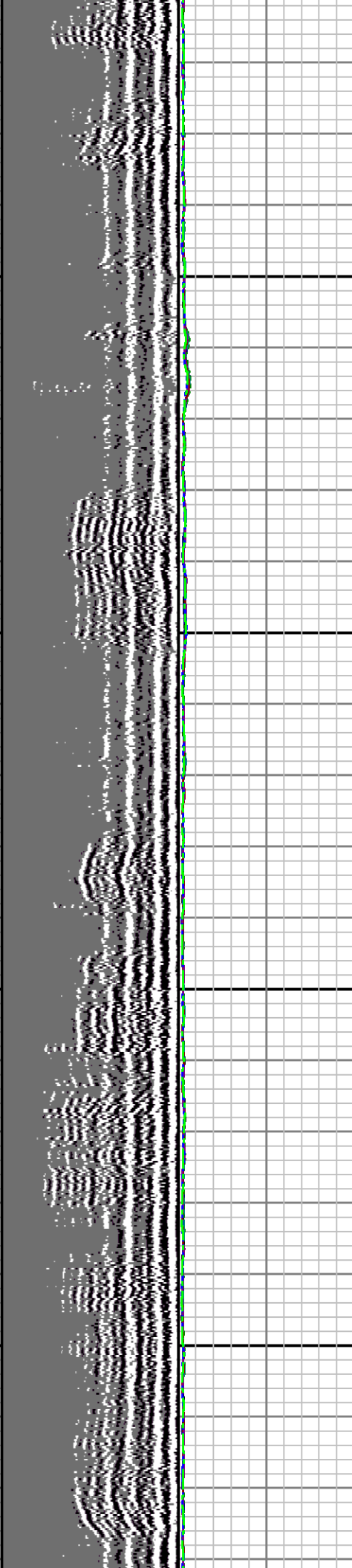


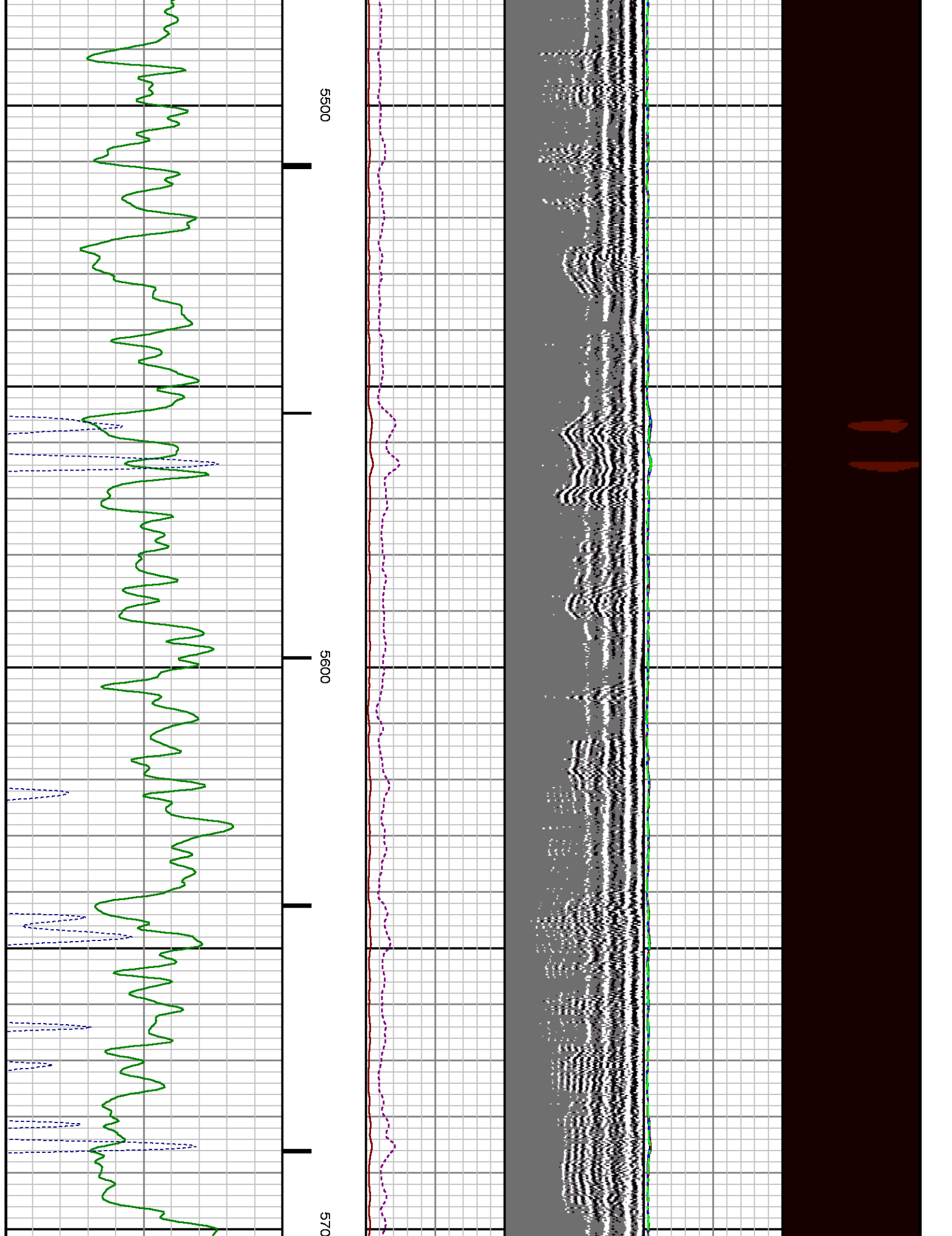


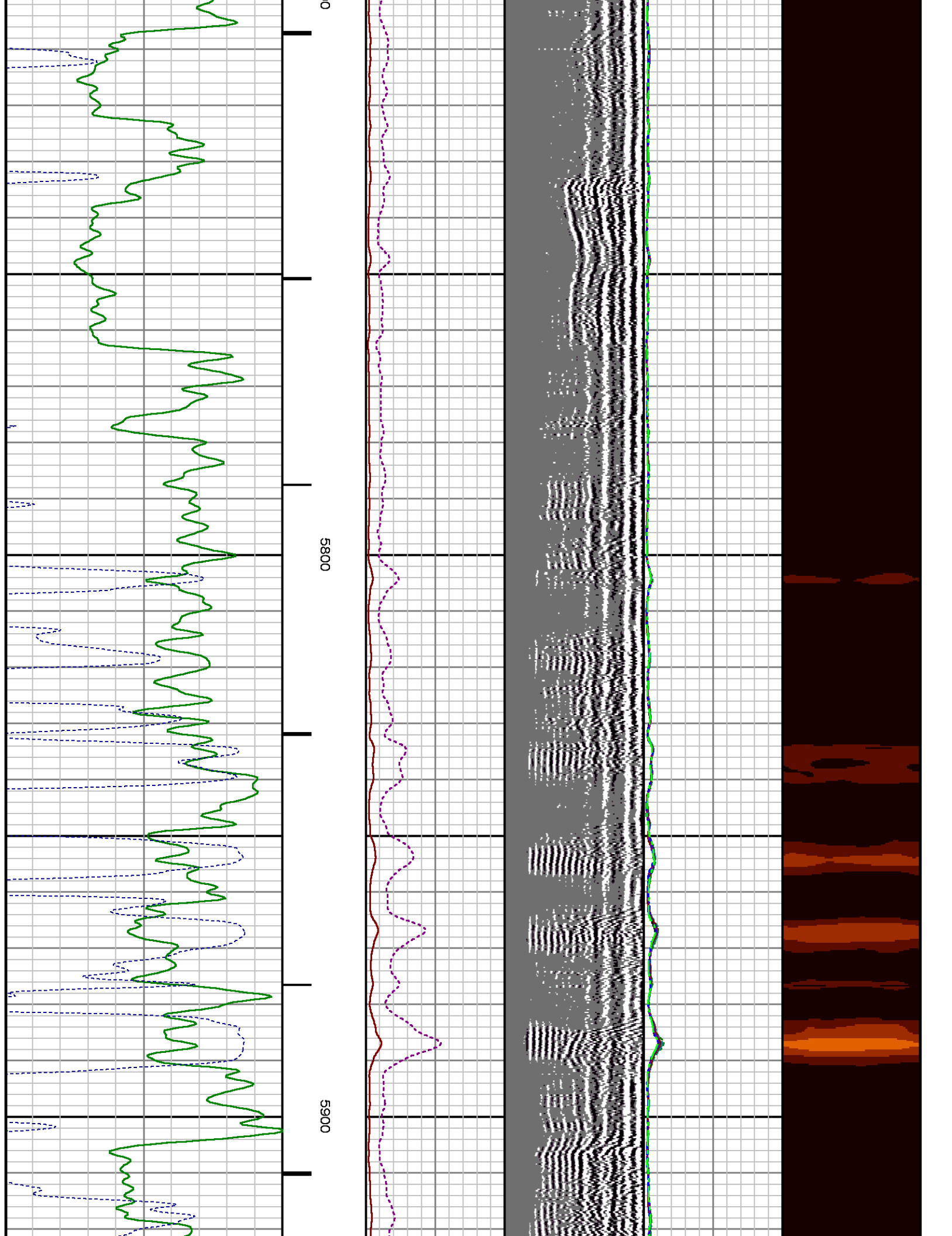


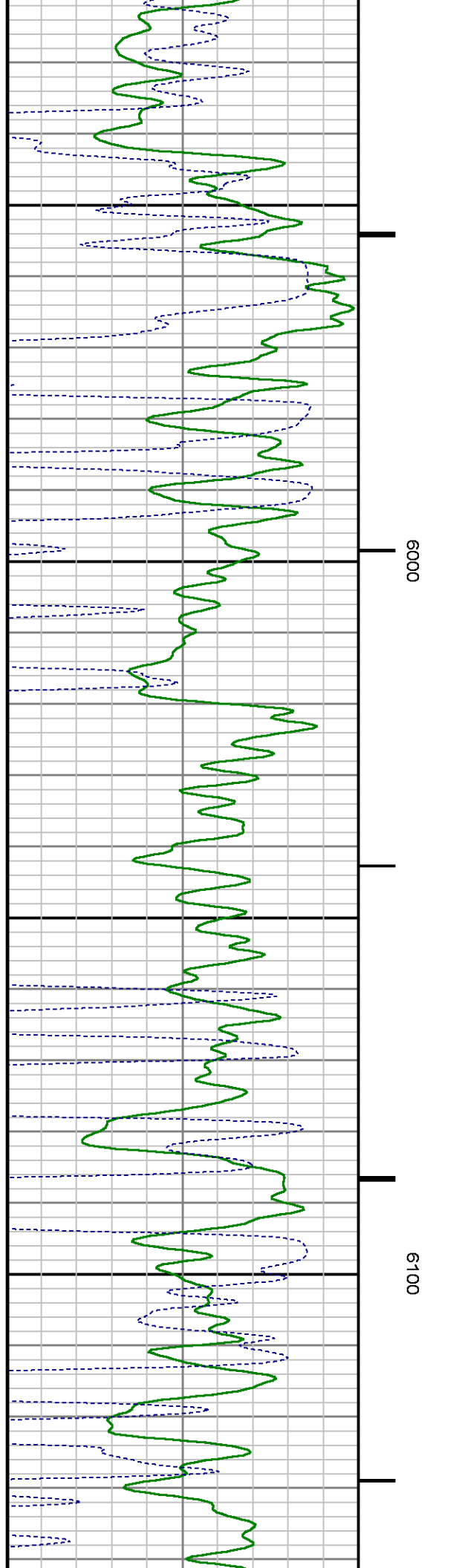
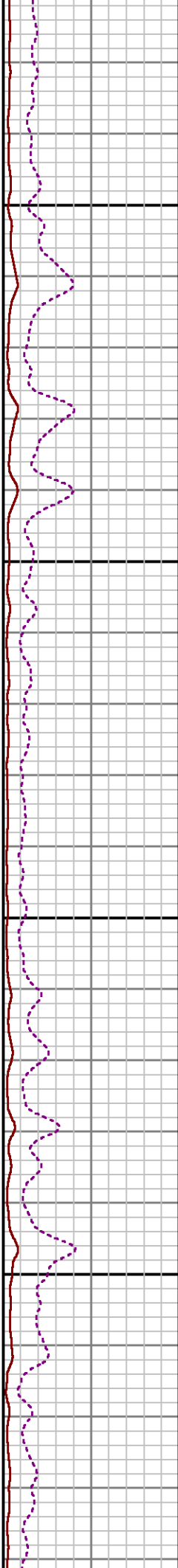
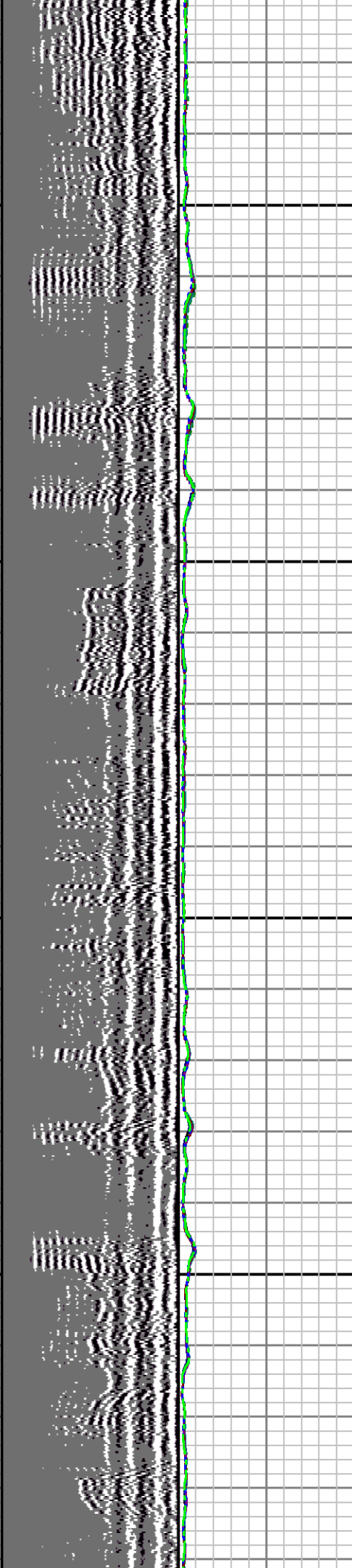


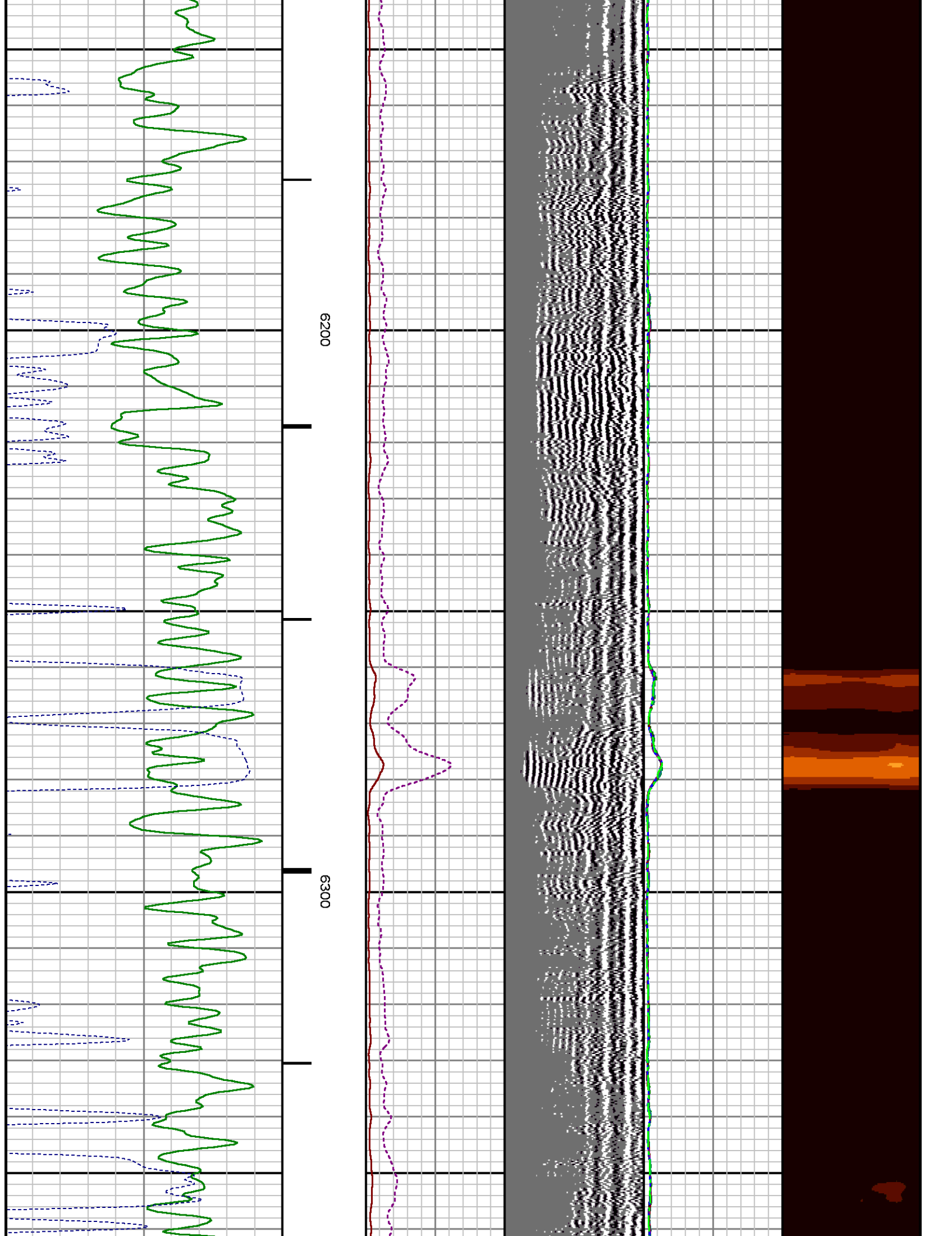


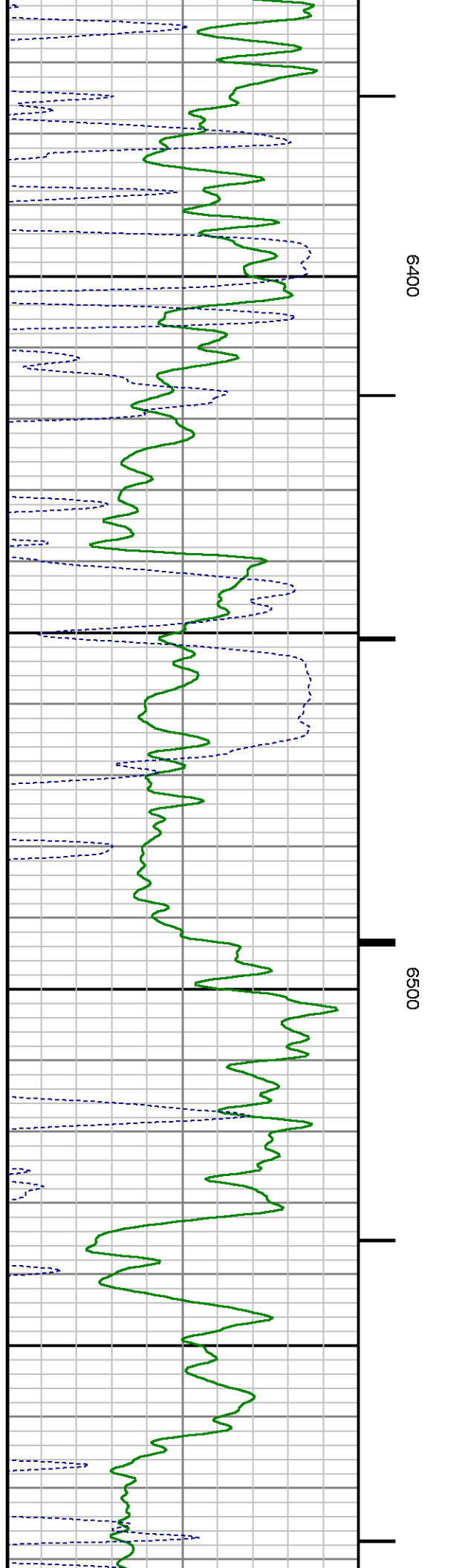
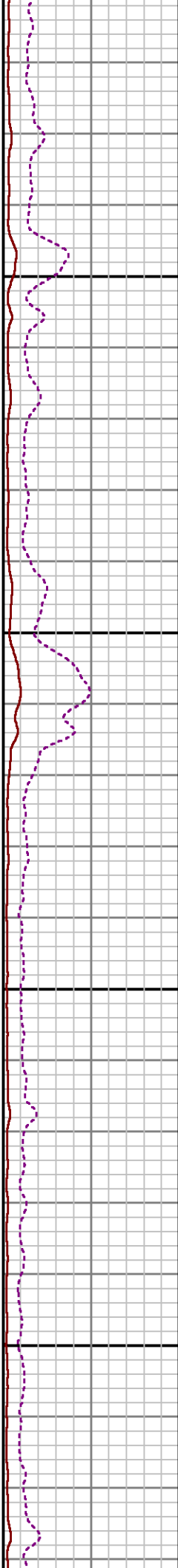
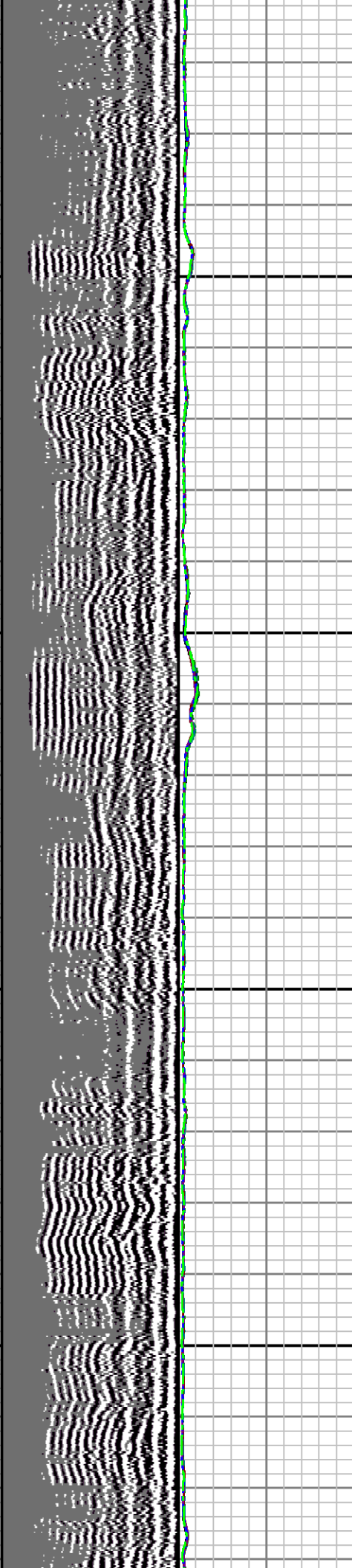


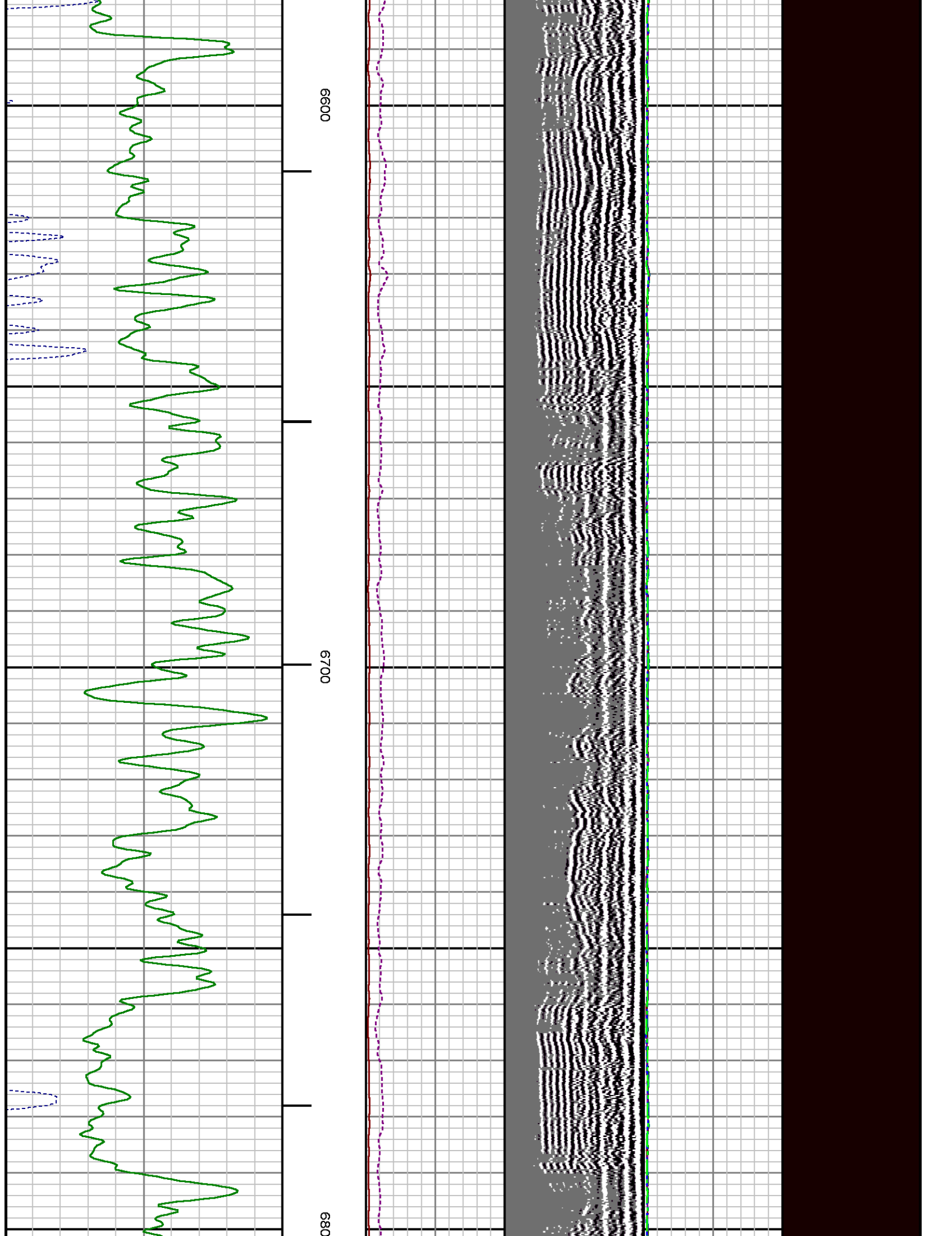


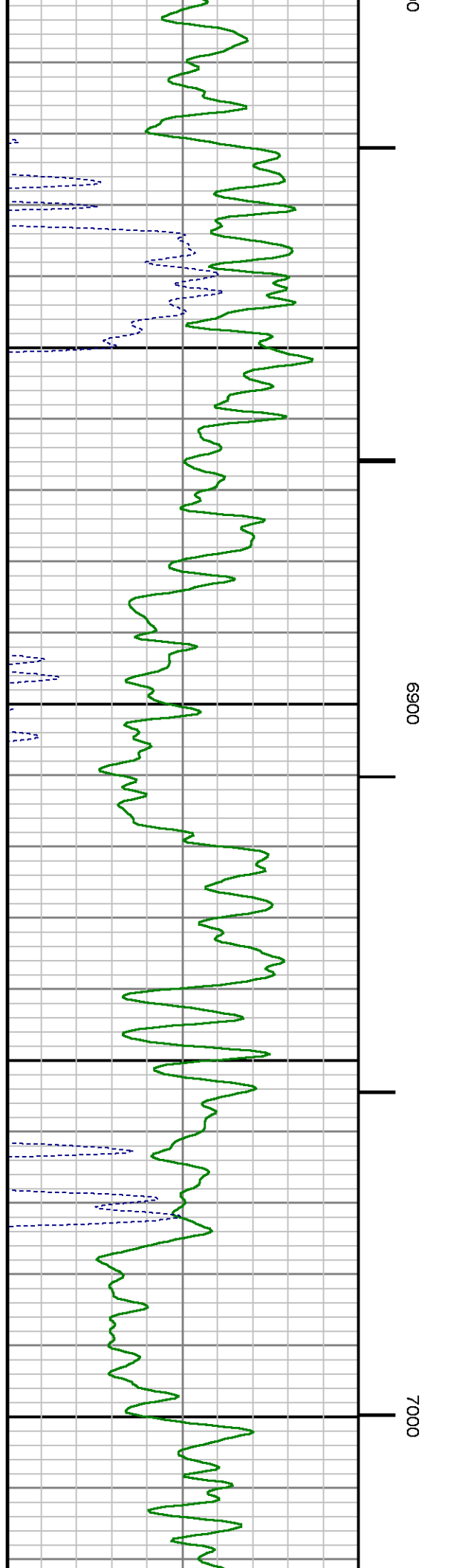
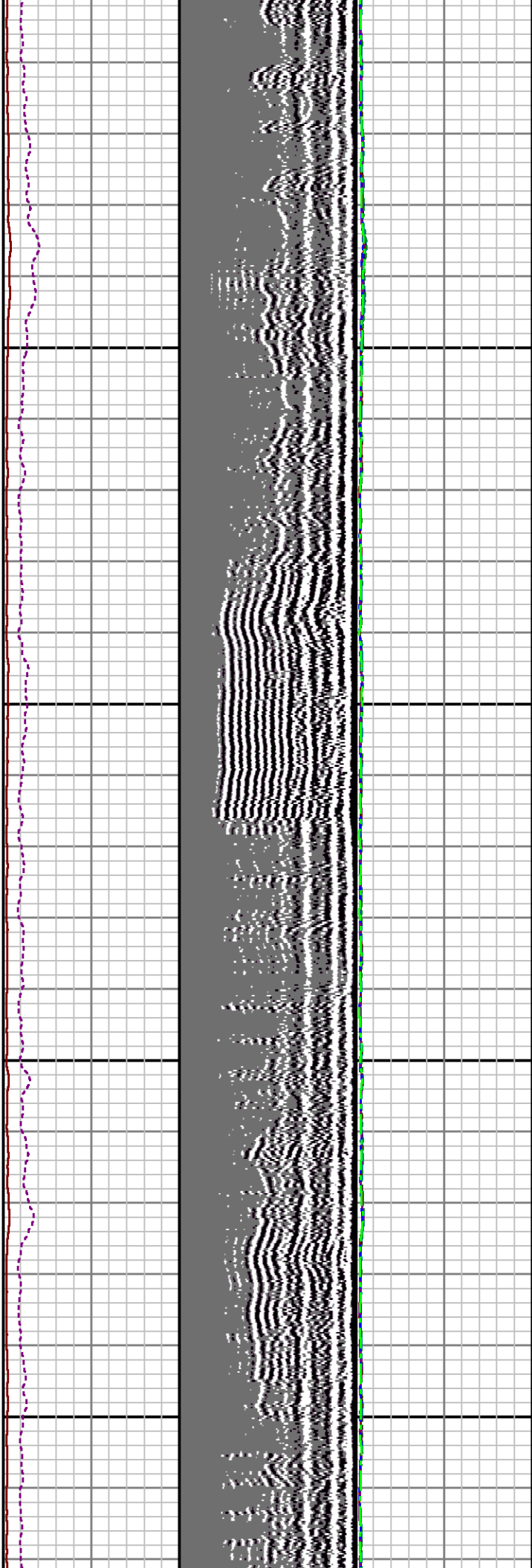
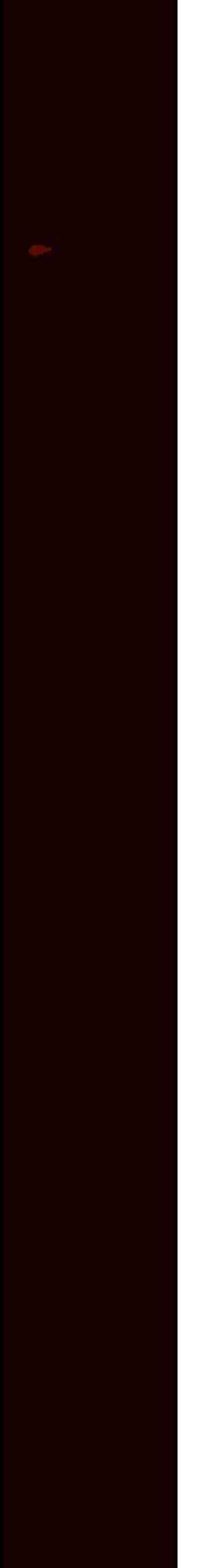


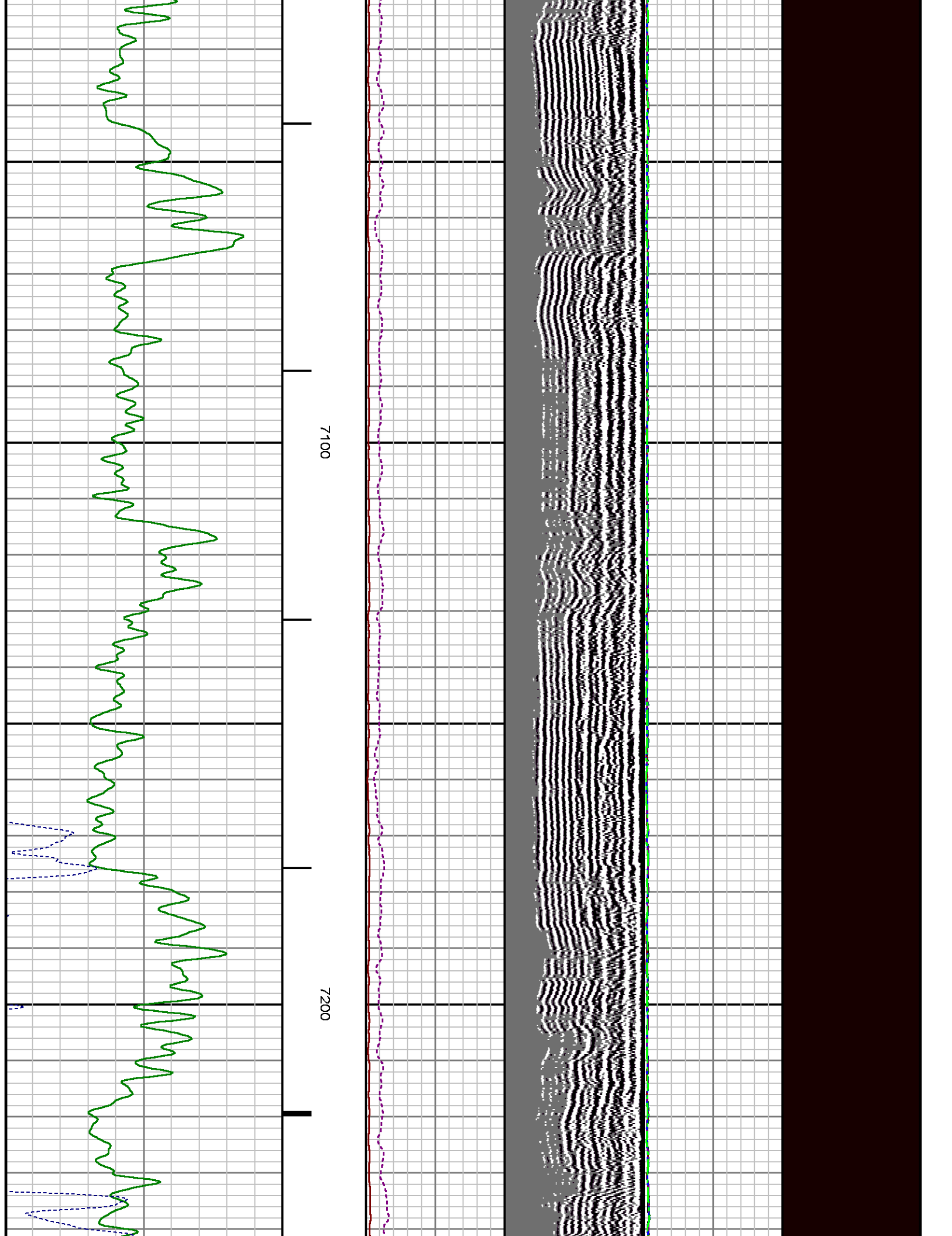


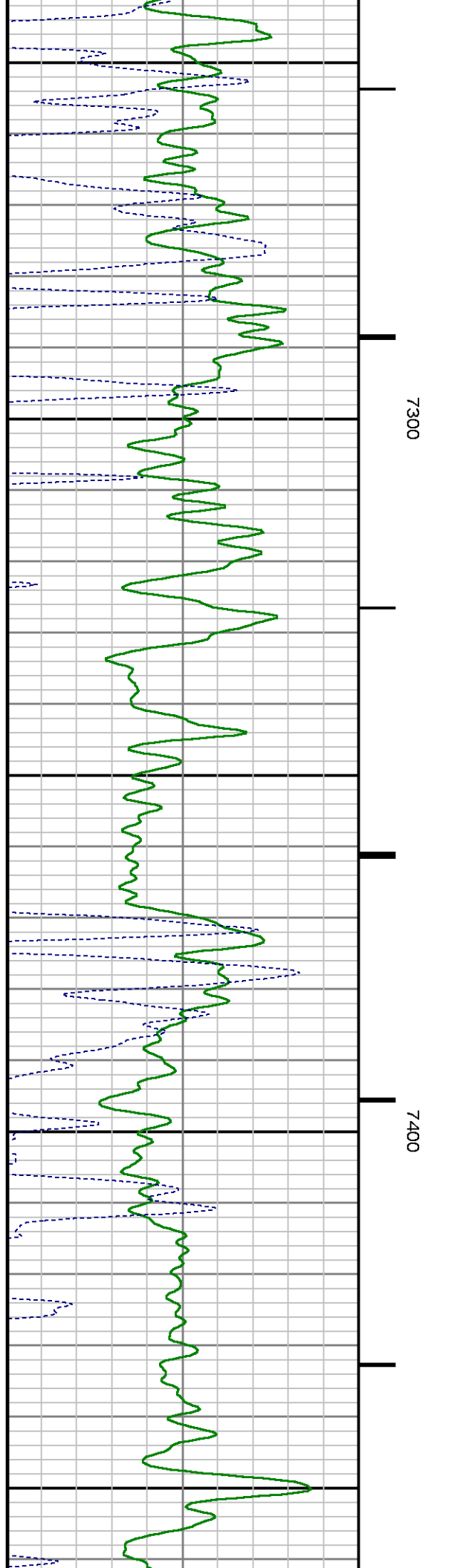
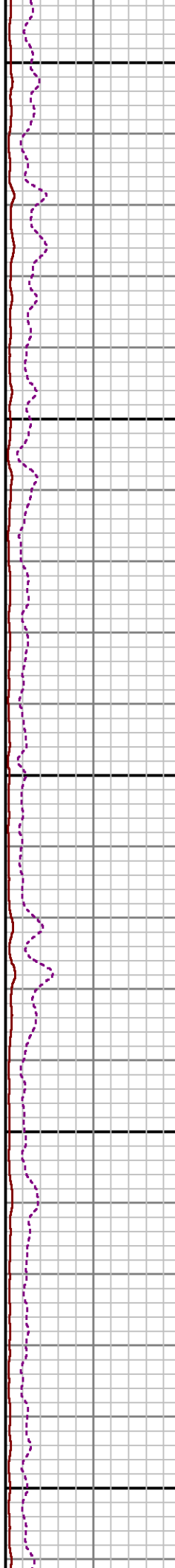
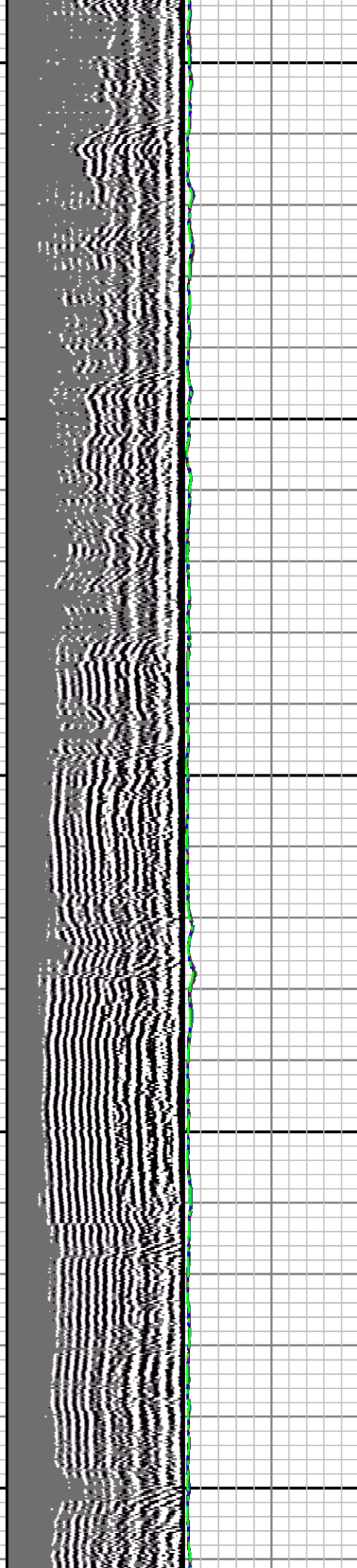


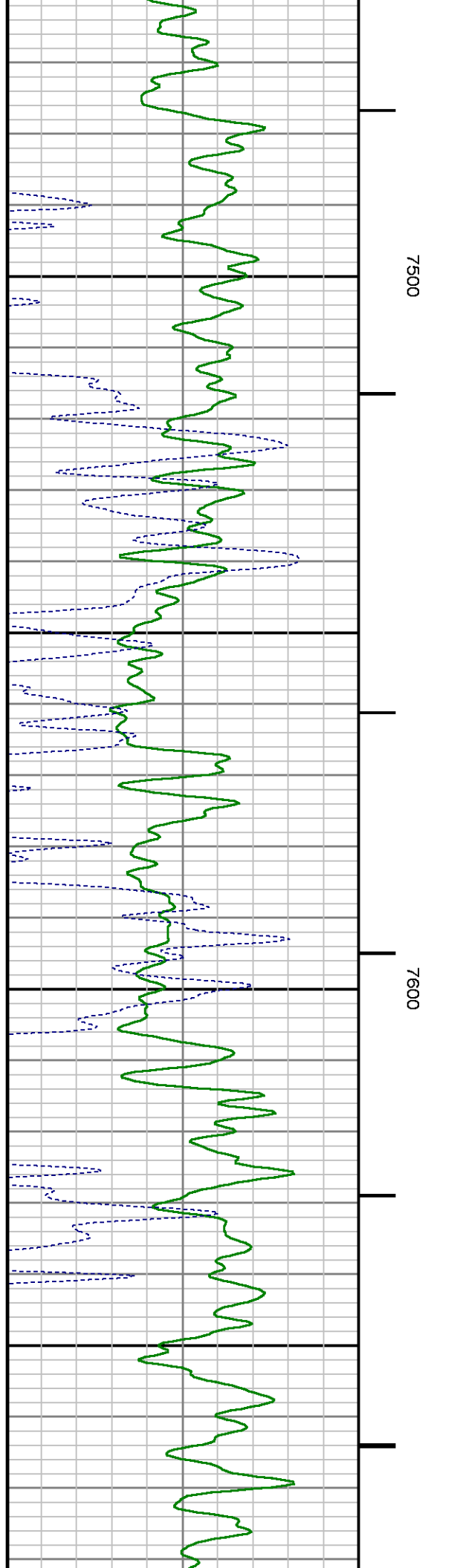
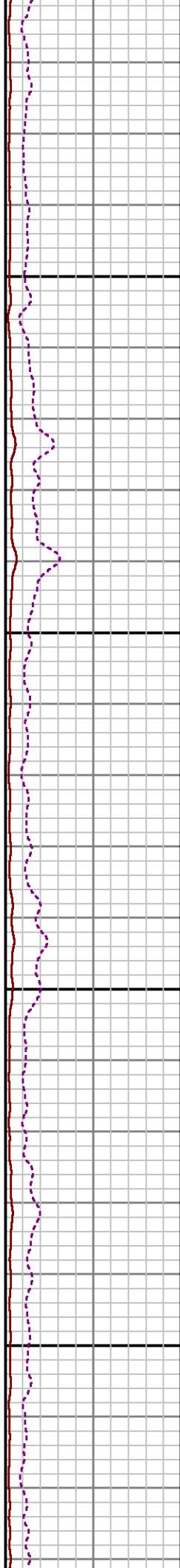
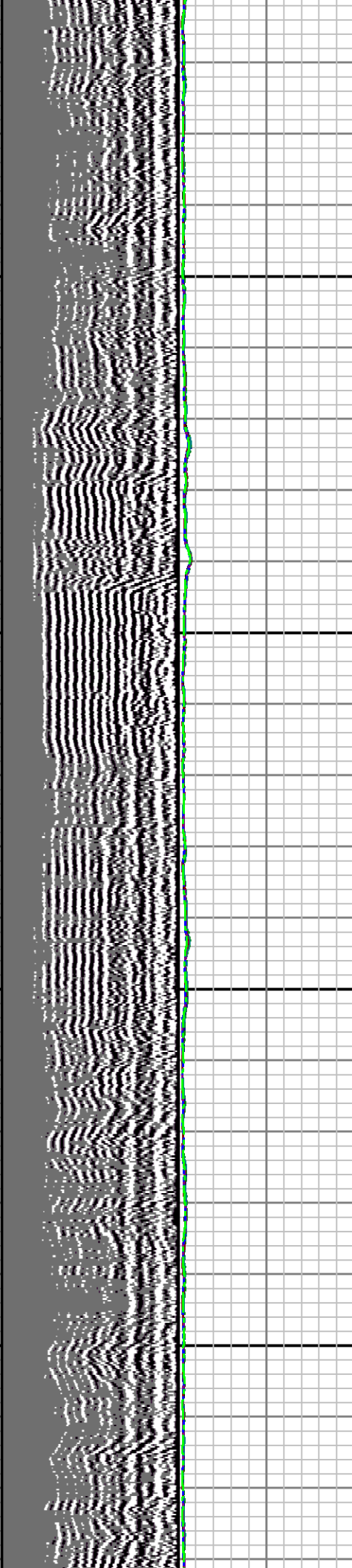


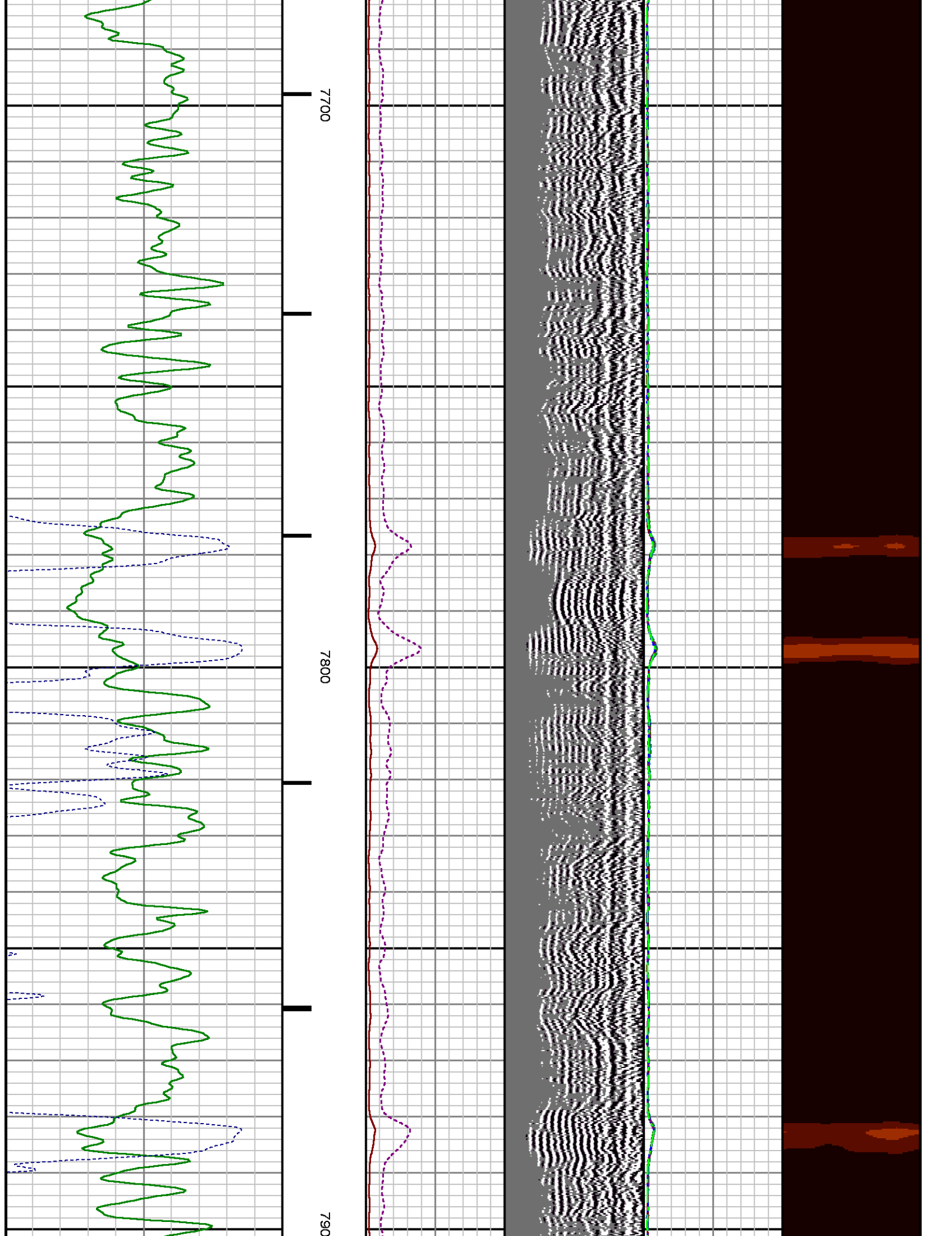


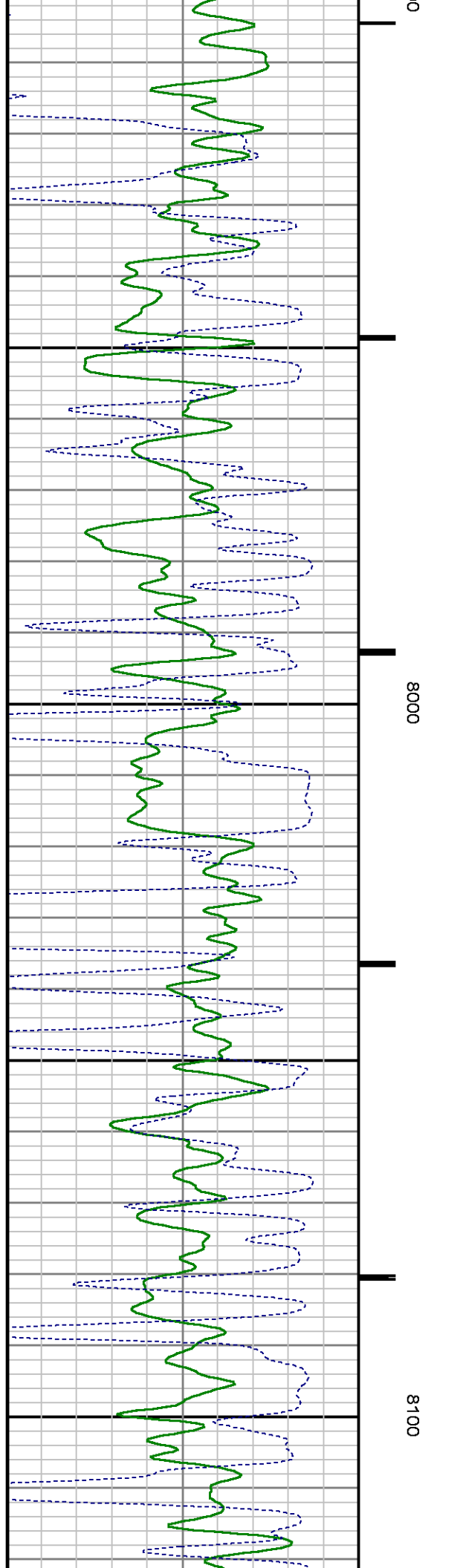
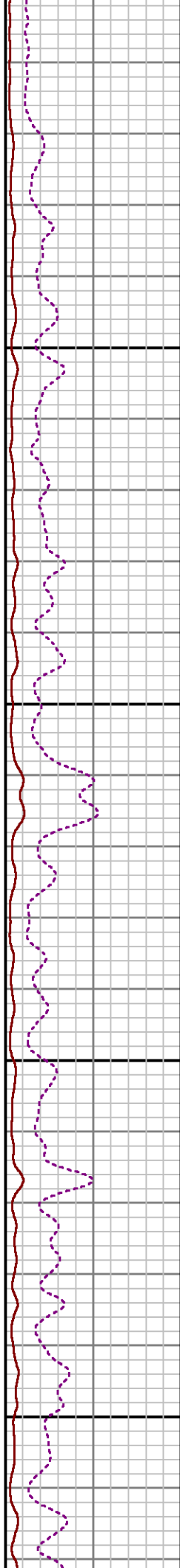
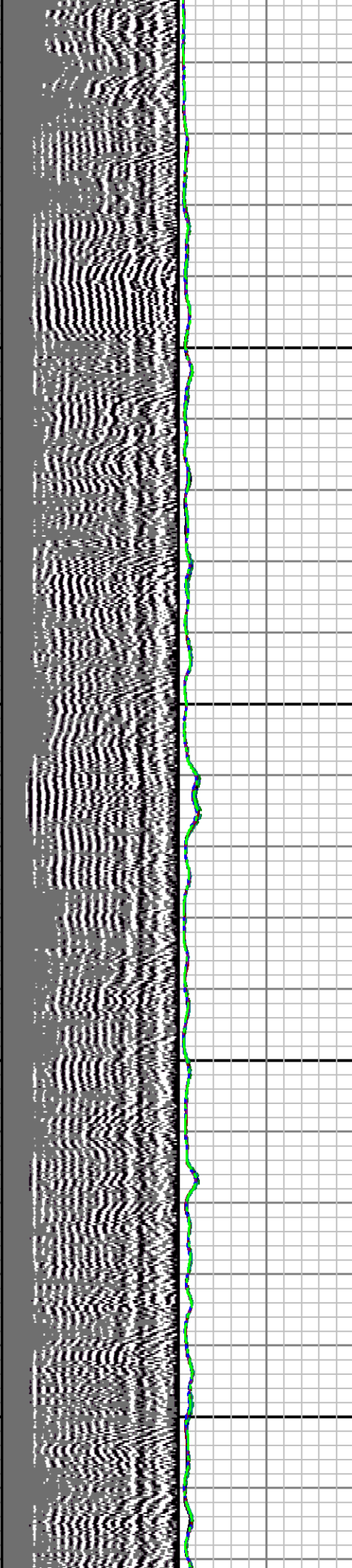
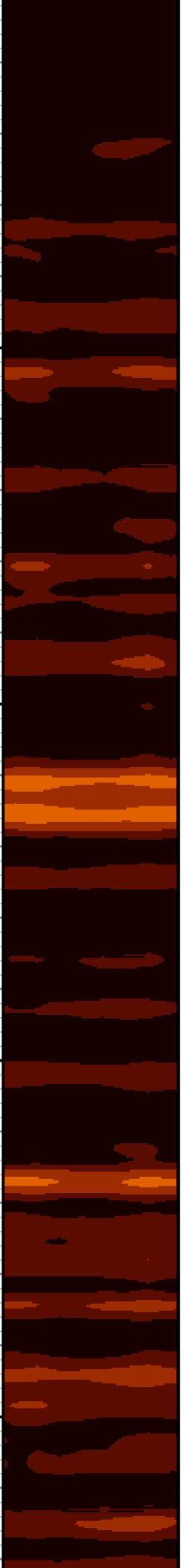


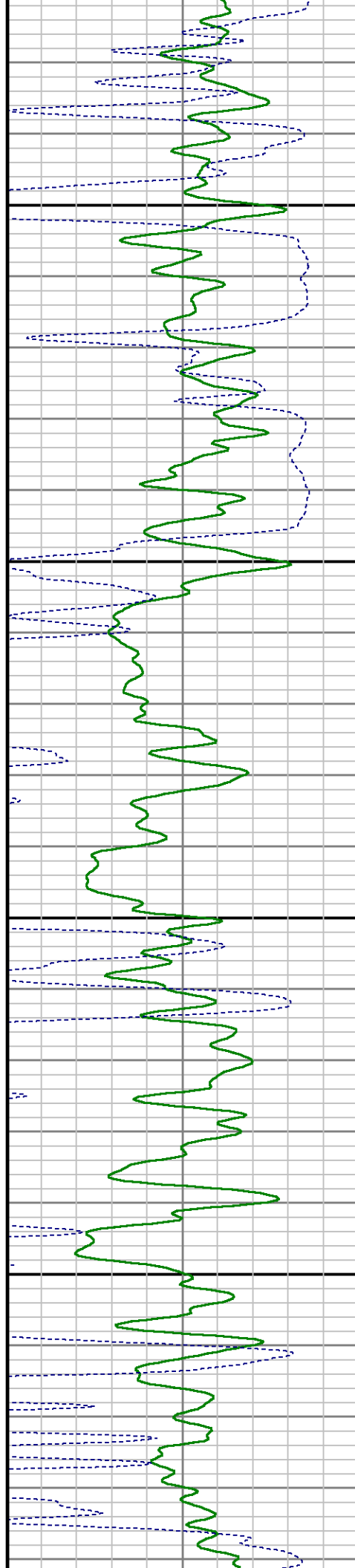
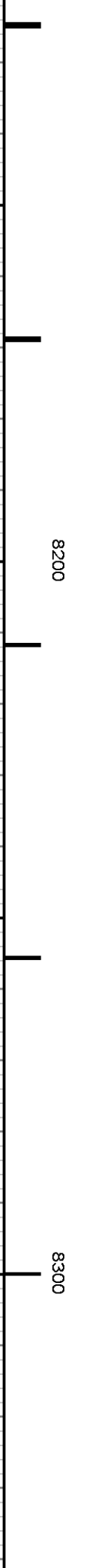
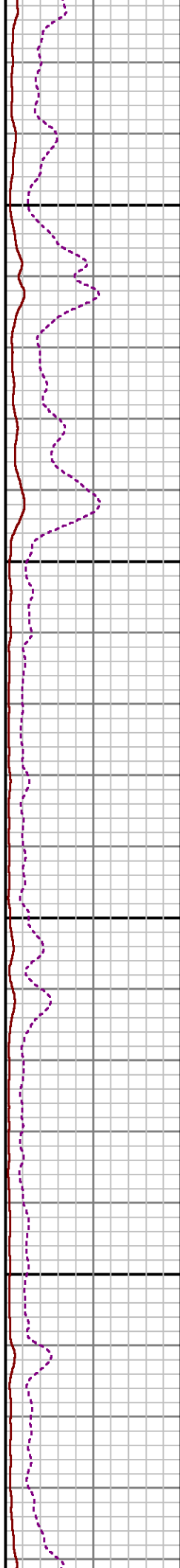
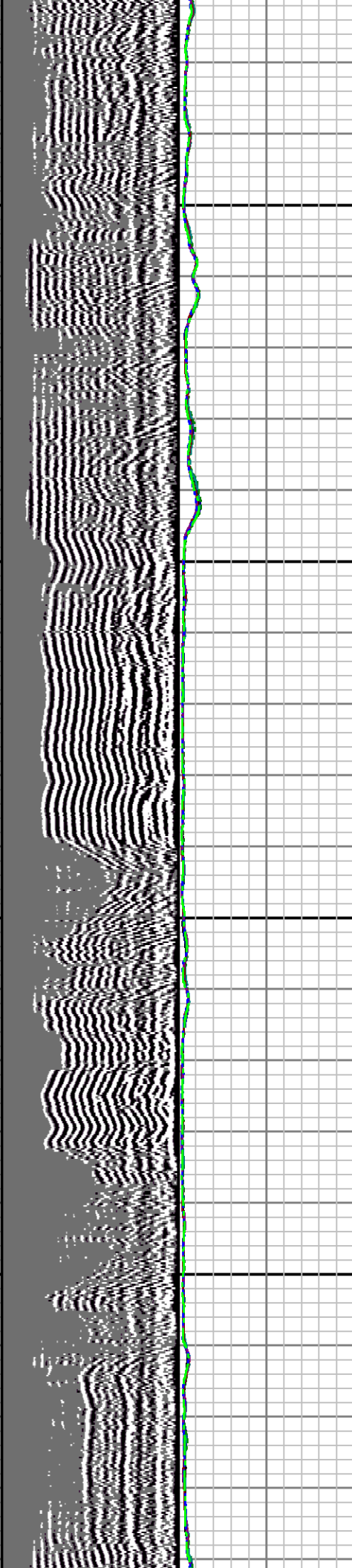


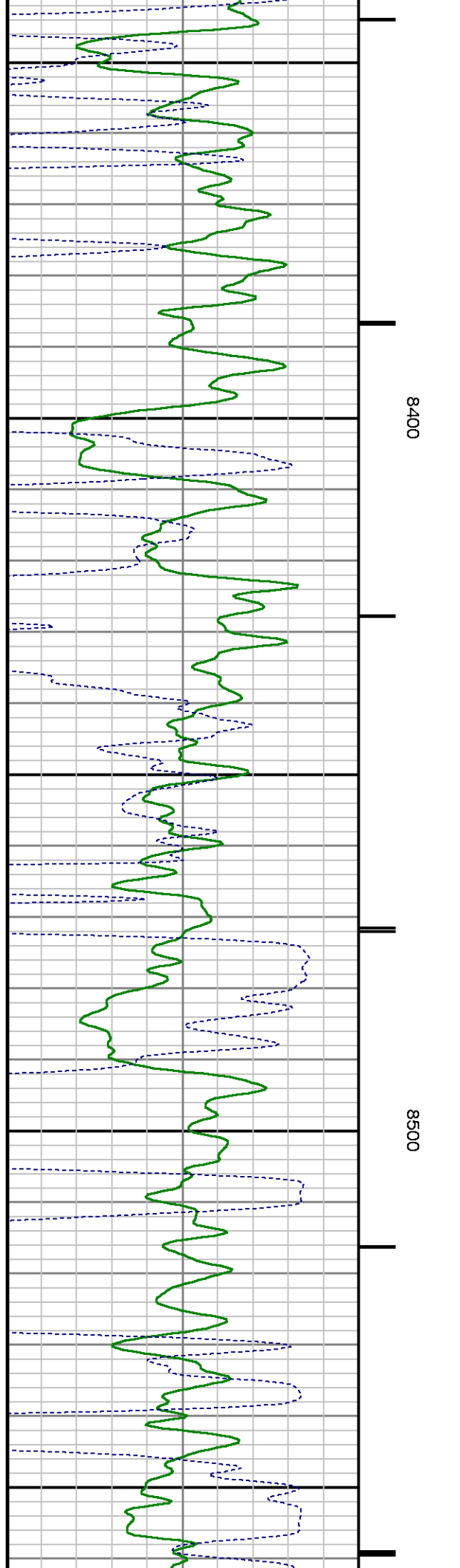
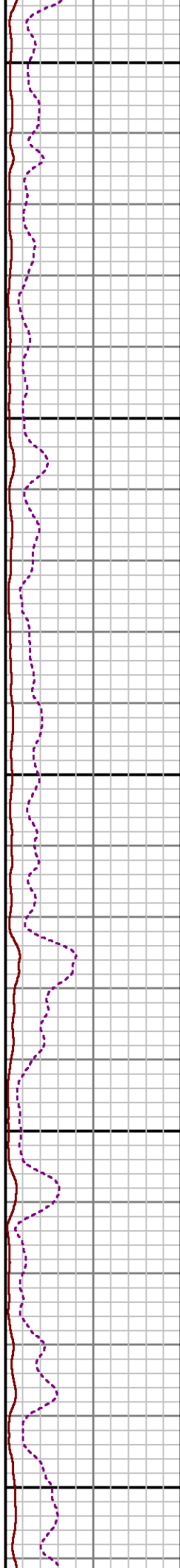
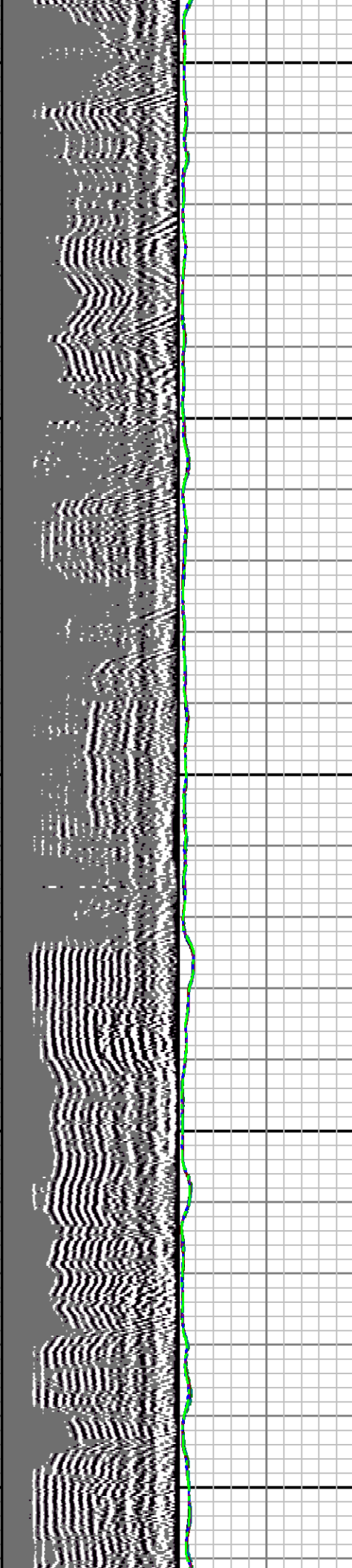


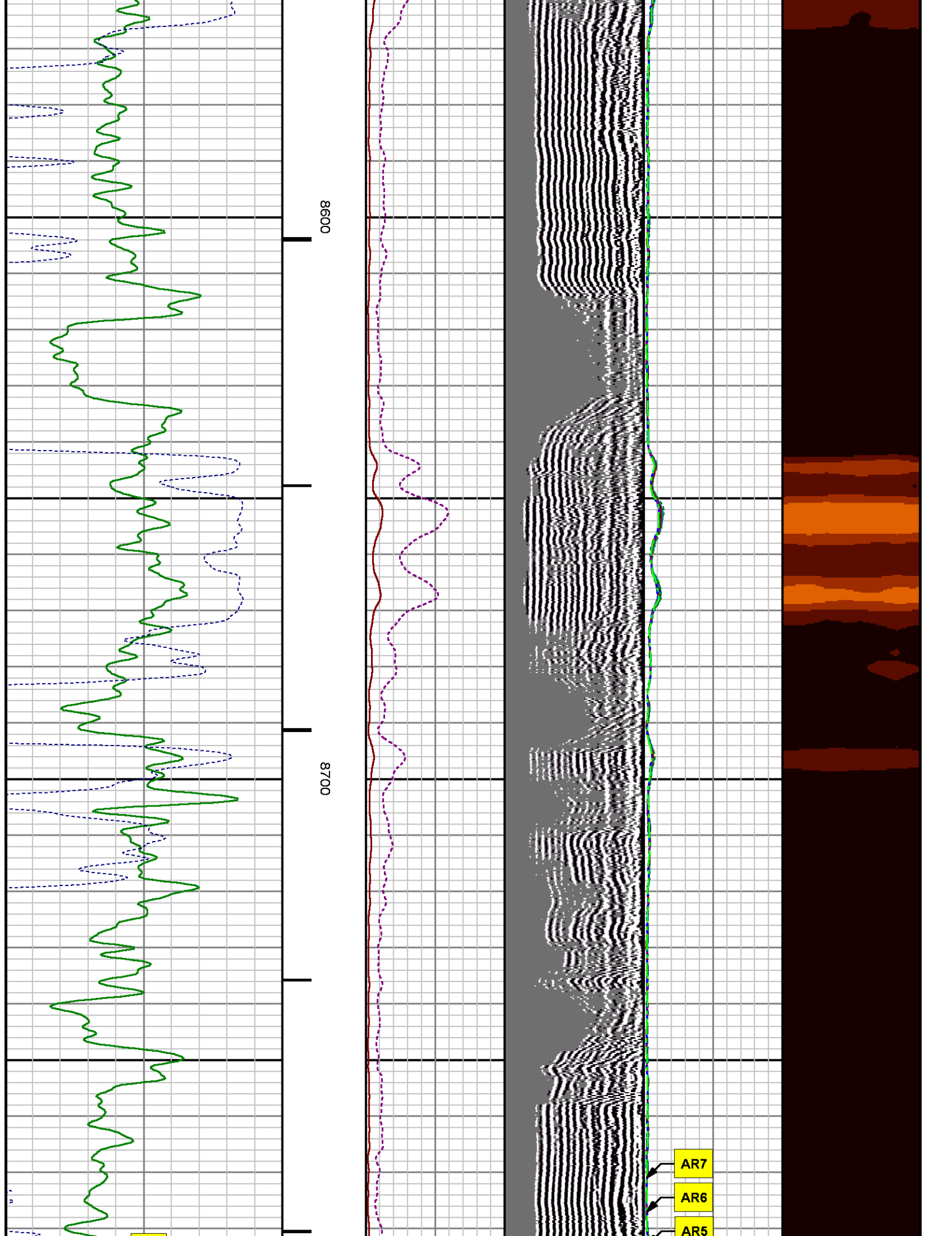


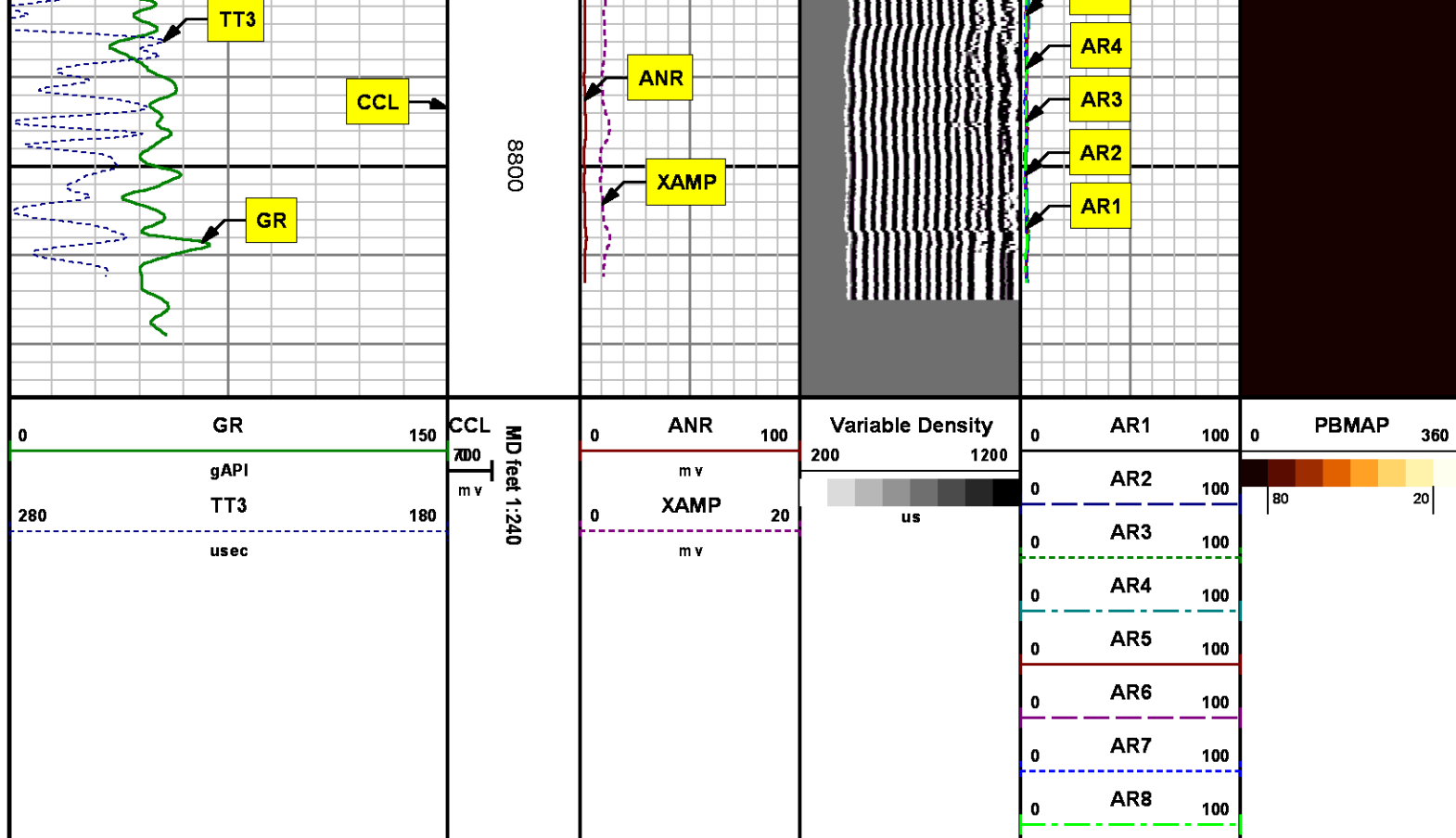












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	8493.360	8819.360
RAL	Amp Gate Start Near	195.000	usec	8493.360	8819.360
RAL	Amp Gate Start Radial	195.000	usec	8493.360	8819.360
RAL	Amp Gate Width Far	25.000	usec	8493.360	8819.360
RAL	Amp Gate Width Near	25.000	usec	8493.360	8819.360
RAL	Amp Gate Width Radial	25.000	usec	8493.360	8819.360
RAL	casing od	4.500	inches	8493.360	8819.360
RAL	casing wt	11.600	lbm/ft	8493.360	8819.360
RAL	FB Start Far	291.900	usec	8493.360	8819.360
RAL	FB Start Near	175.391	usec	8493.360	8819.360
RAL	FB Start Radial	175.391	usec	8493.360	8819.360
RAL	FB Thresh Far	10.000	mv	8493.360	8819.360

RAL		4.000			8493.360	8819.360
RAL	FB Thresh Radial	4.000	mv		8493.360	8819.360
RAL	Fluid Travel Time	200.000	usec/ft		8493.360	8819.891

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-12.360	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-11.360	AFAR SIG TT5
2459XA	-7.250	CCL
2459XA	-5.390	GR
2459XA	0.000	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

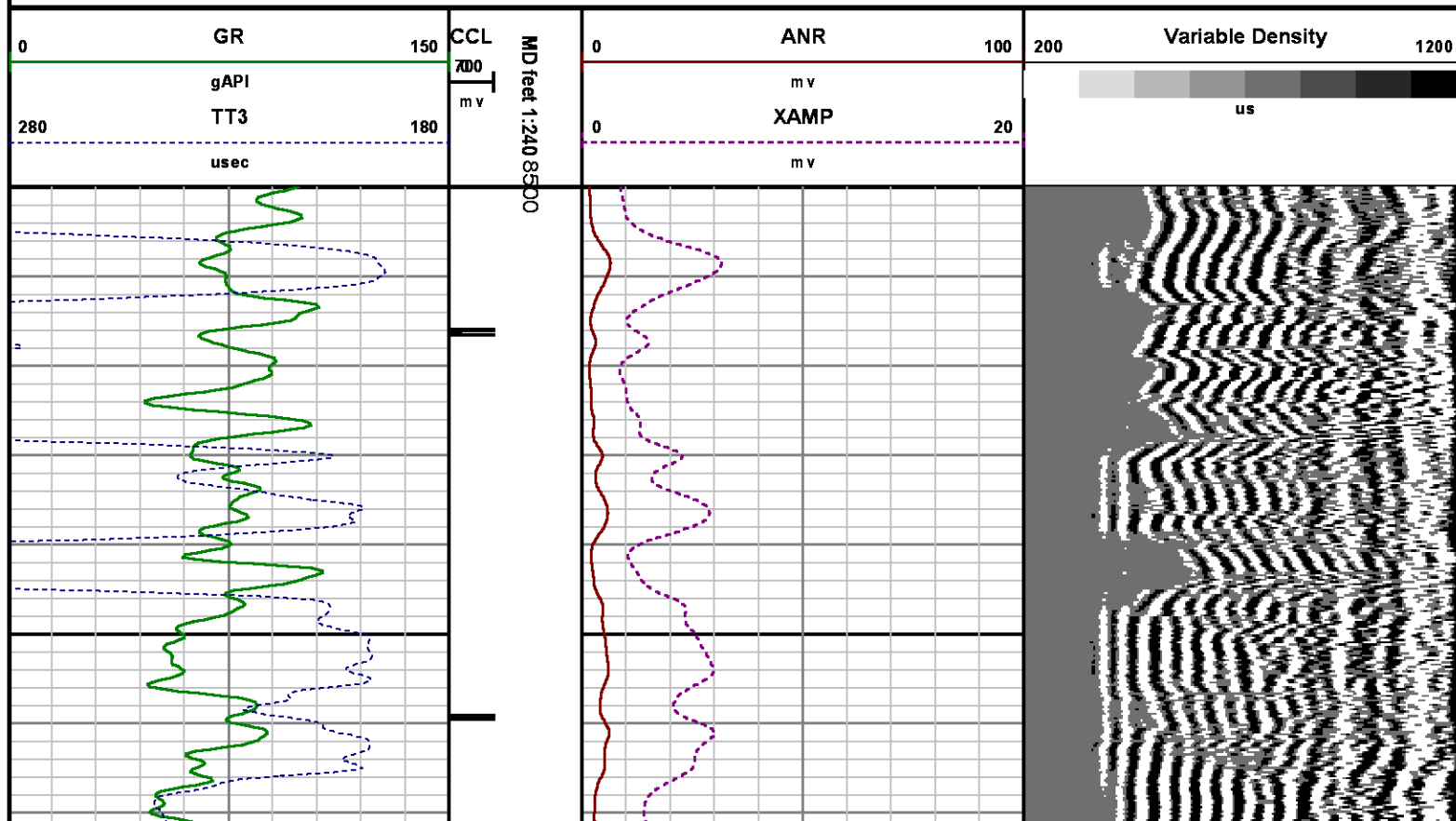
Well : SAVAGE RWF 543-25

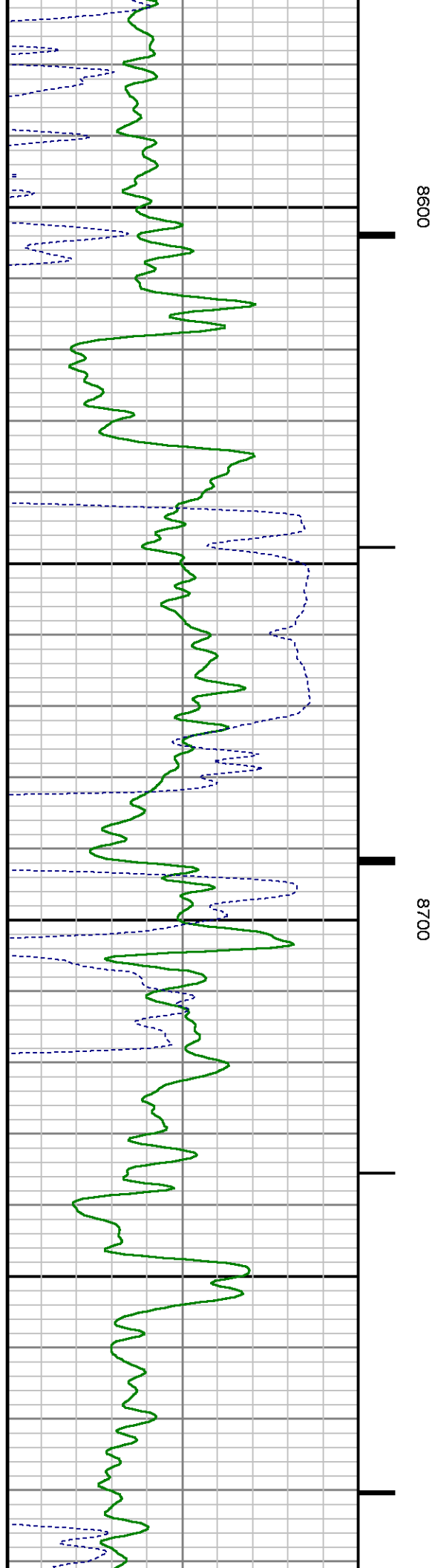
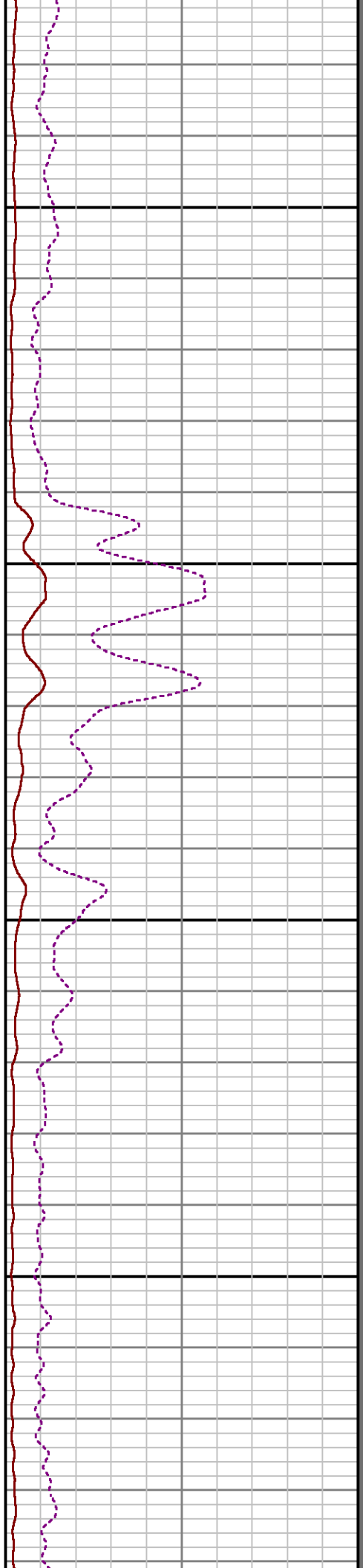
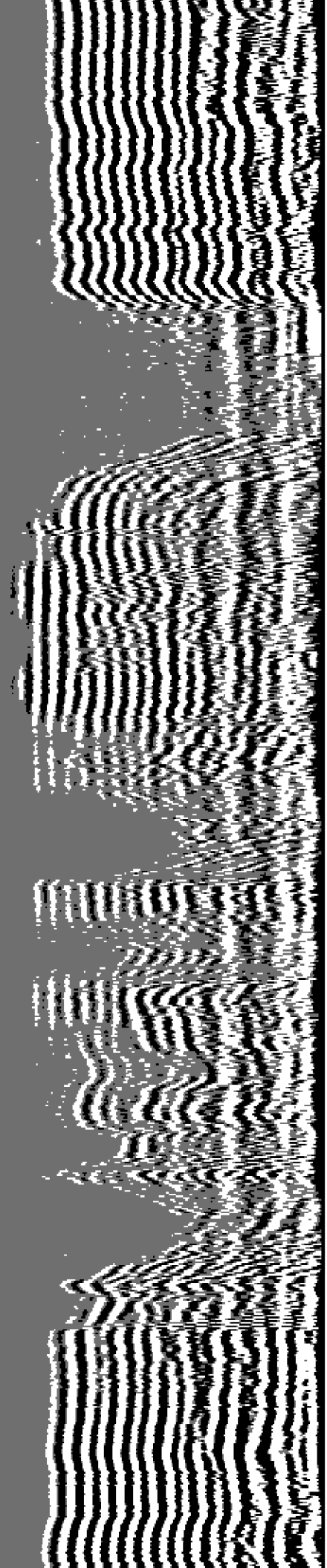
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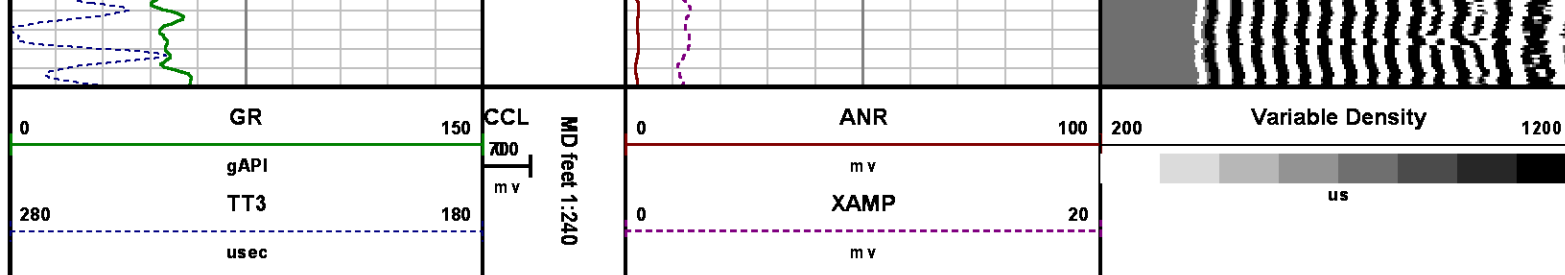
Mode : PlotMgr 5.4.504

Interval : 8500.00 - 8800.00 feet UP

Created : 8/6/2014 2:31:44 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496A6_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Aug 06 11:40:32 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A6

Tool Delay [usec] -55.00 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	0.074	100.00	0.32
3 Ft. Receiver	218	216	30	166	25	2.078	100.00	0.32
5 Ft. Receiver	327	325	30	255	25	0.234	150.00	0.36
Radial #1	218	216	30	166	12	0.436	100.00	0.32
Radial #2	218	216	30	166	12	-0.042	100.00	0.31
Radial #3	217	216	30	166	12	-0.055	100.00	0.31
Radial #4	217	216	30	166	12	0.390	100.00	0.31
Radial #5	218	216	30	166	12	0.111	100.00	0.31
Radial #6	218	216	30	166	12	0.156	100.00	0.32
Radial #7	218	216	30	166	12	0.186	100.00	0.32
Radial #8	221	216	30	166	12	0.958	100.00	0.32

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496A6 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Aug 06 11:41:22 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A6

Tool Delay Casing OD Casing Wt Casing ID

Tool Delay [usec]	-55.00	Casing OD in	4.50	Casing Wt lbm/ft	11.60	Casing ID in	4.00
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RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	0.085	0.000	1.00	100.000
3 Ft. Receiver	200	30	2.221			
5 Ft. Receiver	317	30	2.377			
Radial #1	200	30	1.388			
Radial #2	200	30	1.584			
Radial #3	200	30	1.914			
Radial #4	200	30	1.915			
Radial #5	200	30	2.062			
Radial #6	200	30	2.021			
Radial #7	200	30	1.566			
Radial #8	200	30	1.481			

GAMMA RAY

Calibration File: C:\case\calver\GR\45612.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jul 12 17:17:20 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 12

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	80.98	341.29	0.711	57.55	242.55	185.00

Verification File: C:\case\calver\GR\45612.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sat Jul 12 17:18:50 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 12

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	77.73	340.34	0.711	55.24	241.88	186.63

TOOL DIAGRAM

OTA SHORT CABLE HEAD

24.23'

PROBE 2 3/4 DUAL RECEIVER RADII

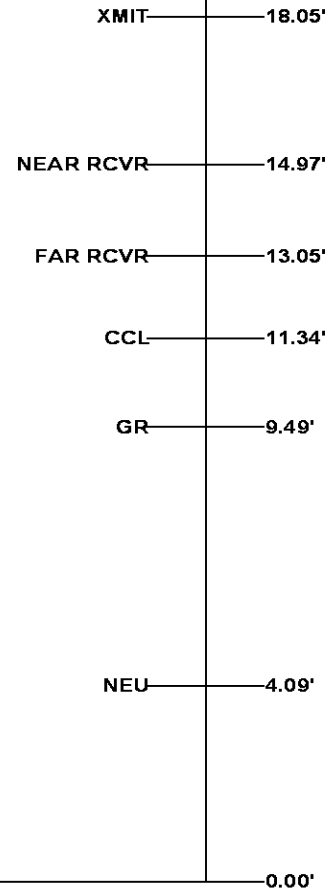
Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

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****CASE****Company****WPX ENERGY****Well****SAVAGE RWF 543-25****Field****RULISON****County****GARFIELD****State****CO****Location****SHL: 1162' FSL & 1381' FEL****BHL: 1849' FSL & 659' FEL****Elevations****KB 6260****DF****GL 6234****File No:****CH088838****API No:****05045219910000****25 6S 94W****RWF 43-25 PAD****NABORS 577****SEC 25 TWP 6S RGE 94W**