



RADIAL ANALYSIS BOND LOG

Baker Atlas

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

CH085687 **Well** **WPX ENERGY PA 414-2**

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

05045221440000 **County** **GARFIELD** **State** **CO**

Location

SHL: 2010' FSL & 1559' FWL

BHL: 584' FSL & 659' FWL

SEC **2** **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	12/MAY/14	
Run	ONE	
Service Order	US085687	
Depth Driller	7667 ft	
Depth Logger	7602 ft	
Bottom Logged Interval	7592 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	67 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	222 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	896 ft
8.75 in	897 ft	7721 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	896 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	7721 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 10 feet.

Logged with zero PSI at wellhead.

BHT = 222 °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

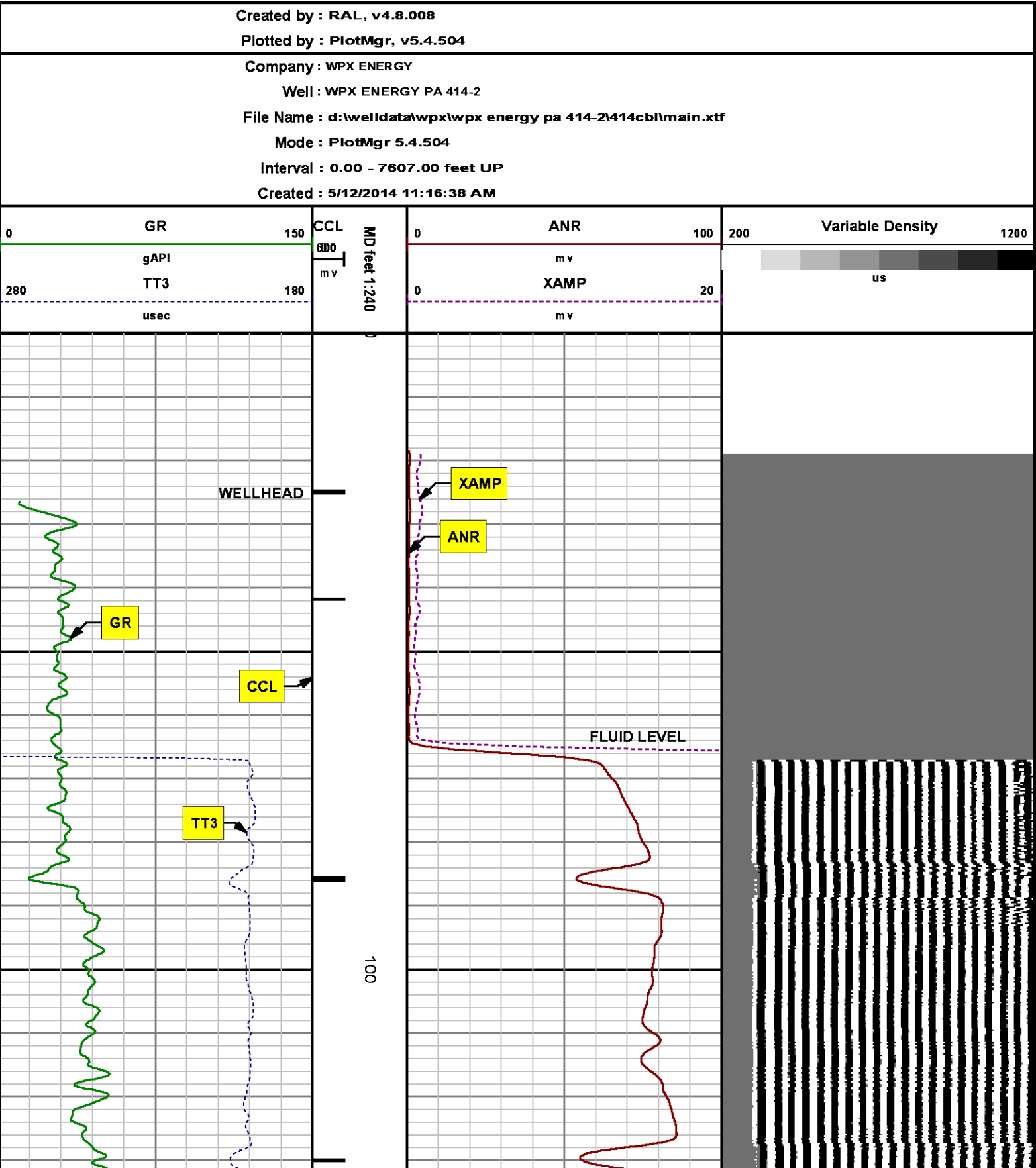
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	34.691	7602.750
RAL	Amp Gate Start Near	195.000	usec	34.691	7602.750
RAL	Amp Gate Start Radial	195.000	usec	34.691	7602.750
RAL	Amp Gate Width Far	25.000	usec	34.691	7602.750
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RAL	casing od	4.500	inches	34.691	7602.750
RAL	casing wt	11.600	lbm/ft	34.691	7602.750
RAL	FB Start Far	291.900	usec	34.691	7602.750
RAL	FB Start Near	175.391	usec	34.691	7602.750
RAL	FB Start Radial	175.391	usec	34.691	7602.750
RAL	FB Thresh Far	10.000	mv	34.691	7602.750
RAL	FB Thresh Near	4.000	mv	34.691	7602.750
RAL	FB Thresh Radial	4.000	mv	34.691	7602.750
RAL	Fluid Travel Time	200.000	usec/ft	34.691	7603.473

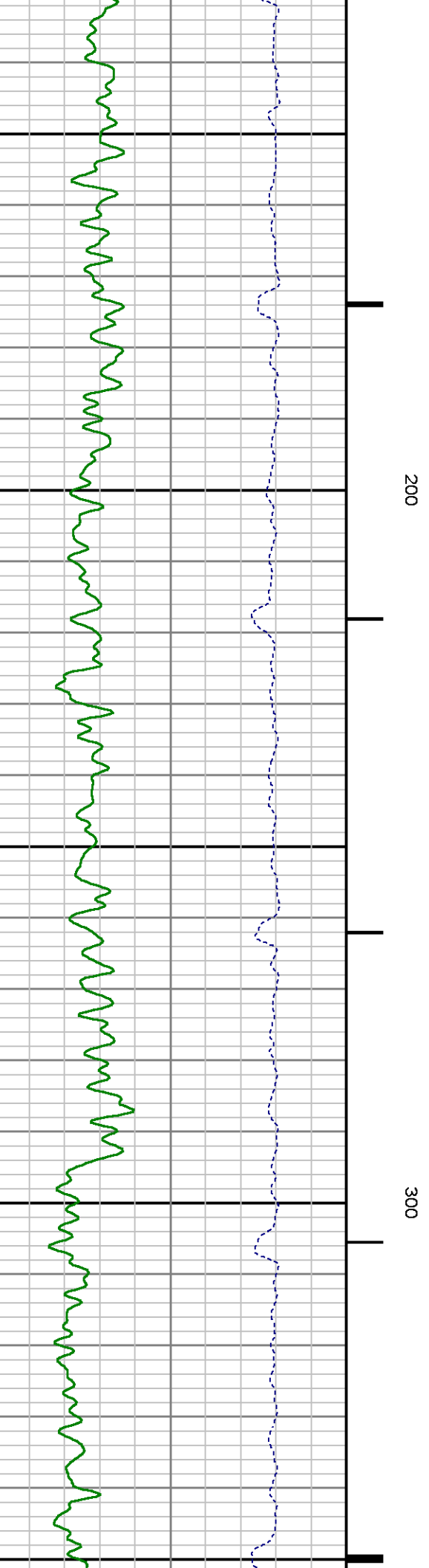
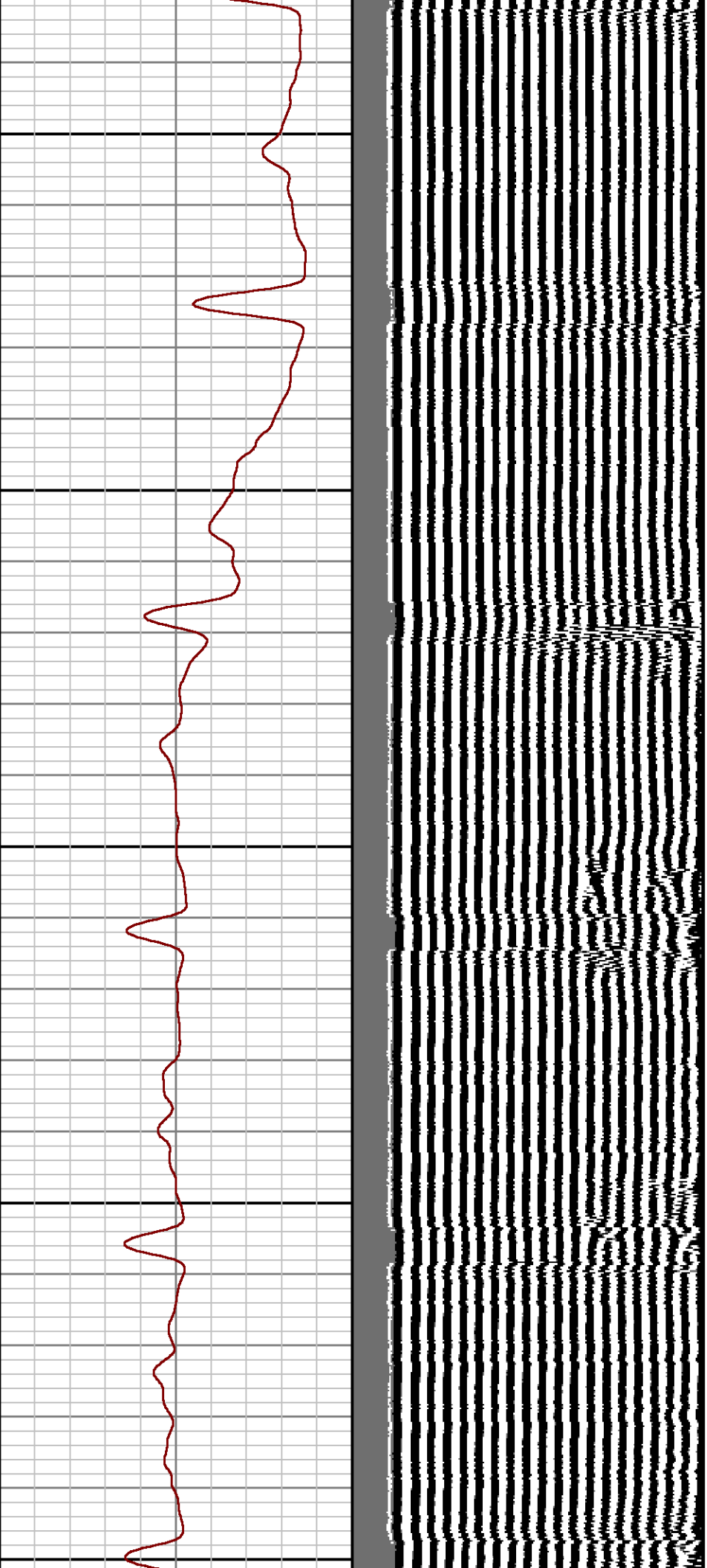
DEPTH OFFSETS

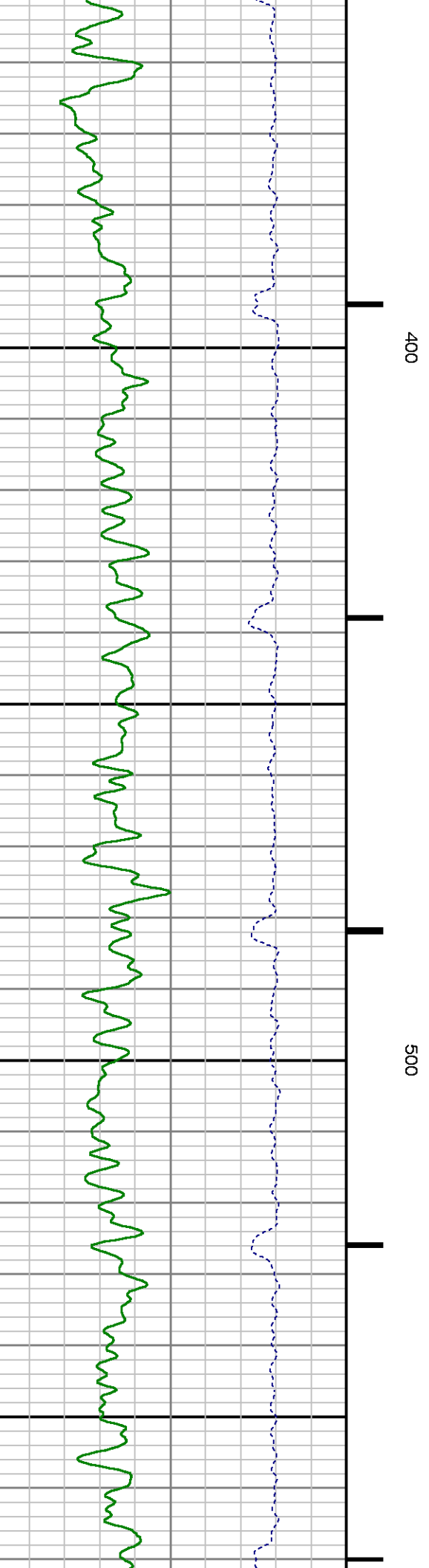
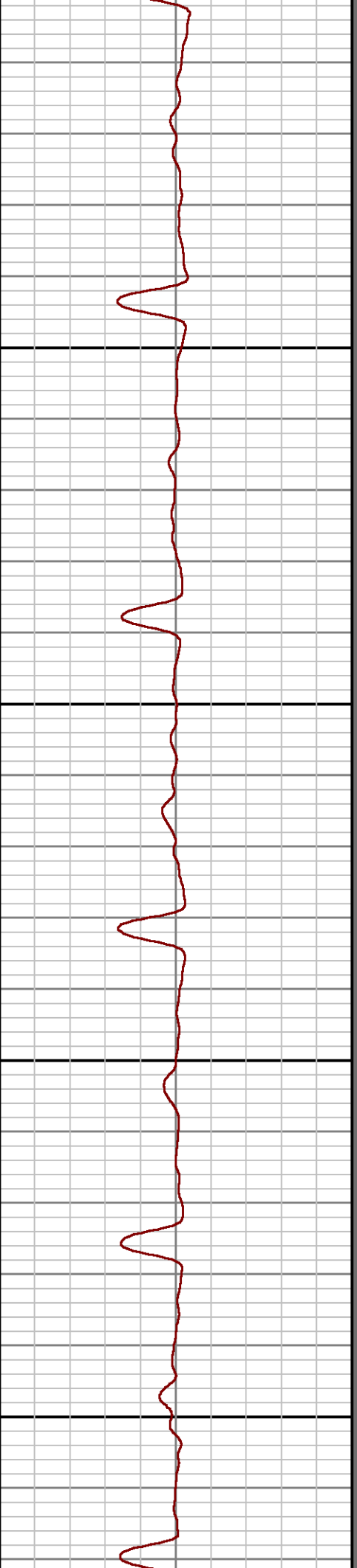
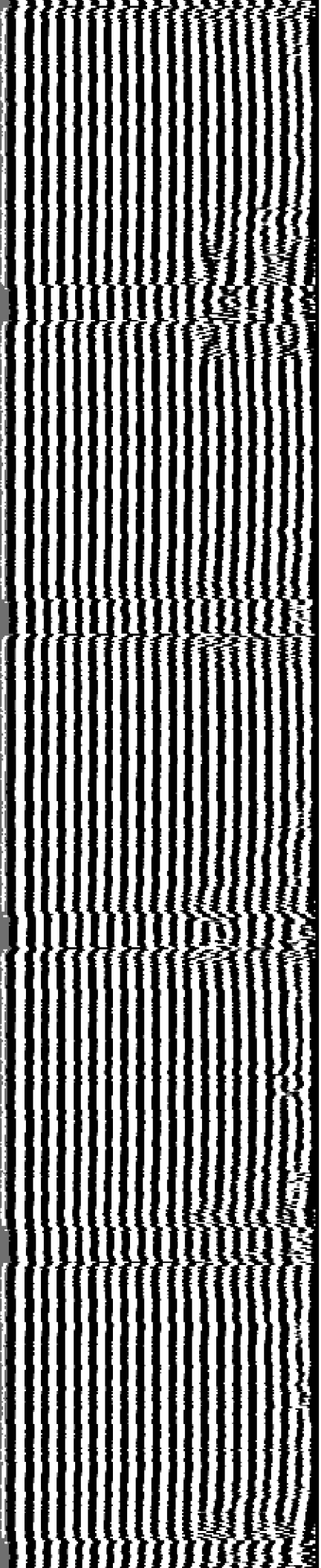
(for Acquired Curves)

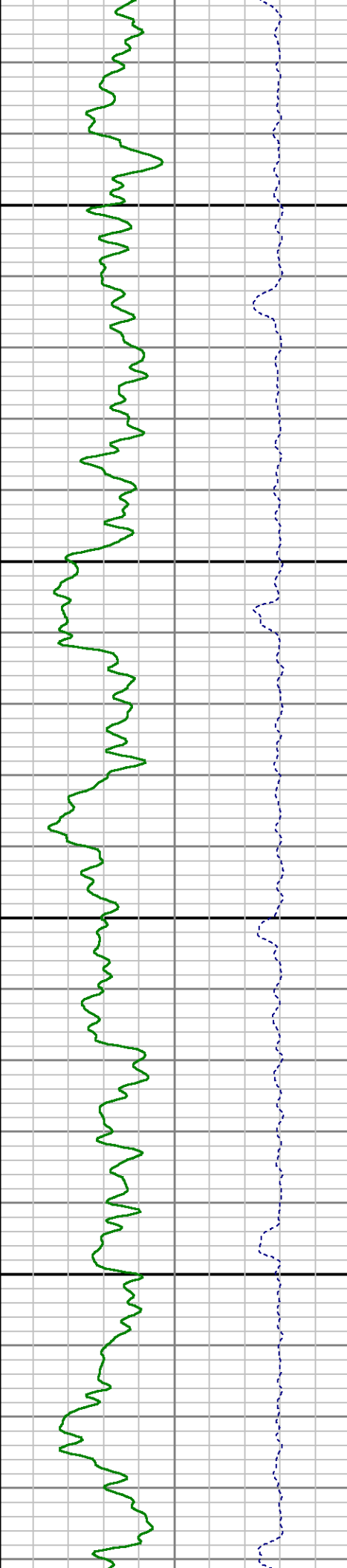
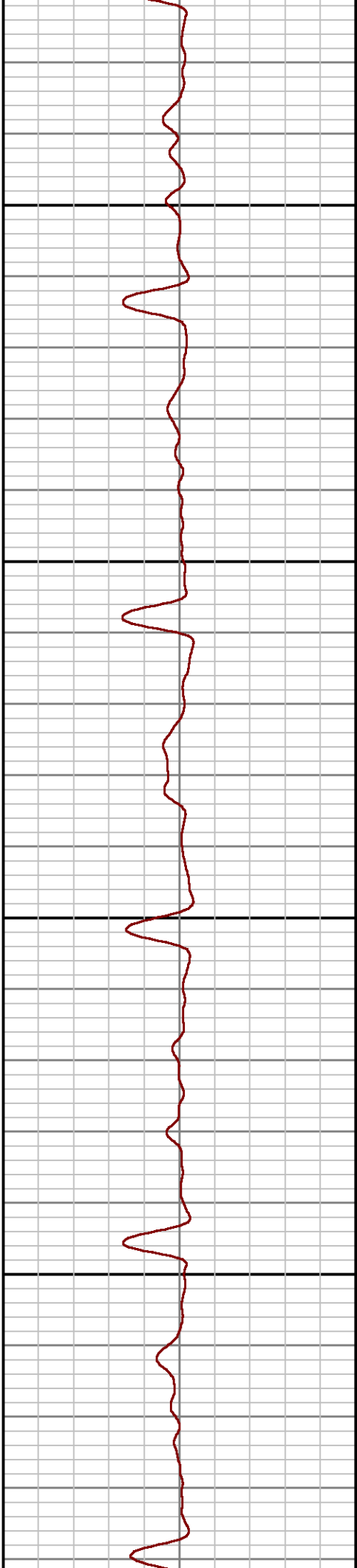
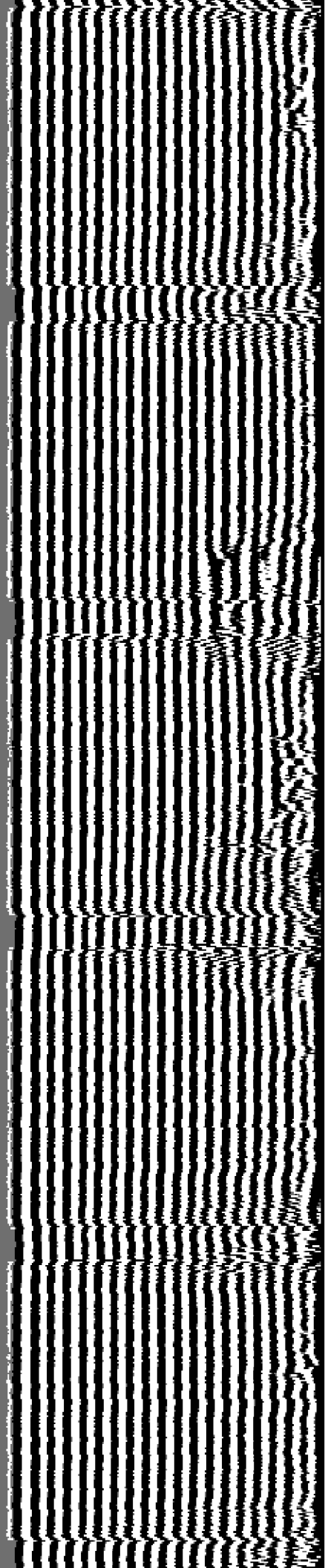
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
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		AR5	AR6	AR7	AR8	CHV	FPR2		

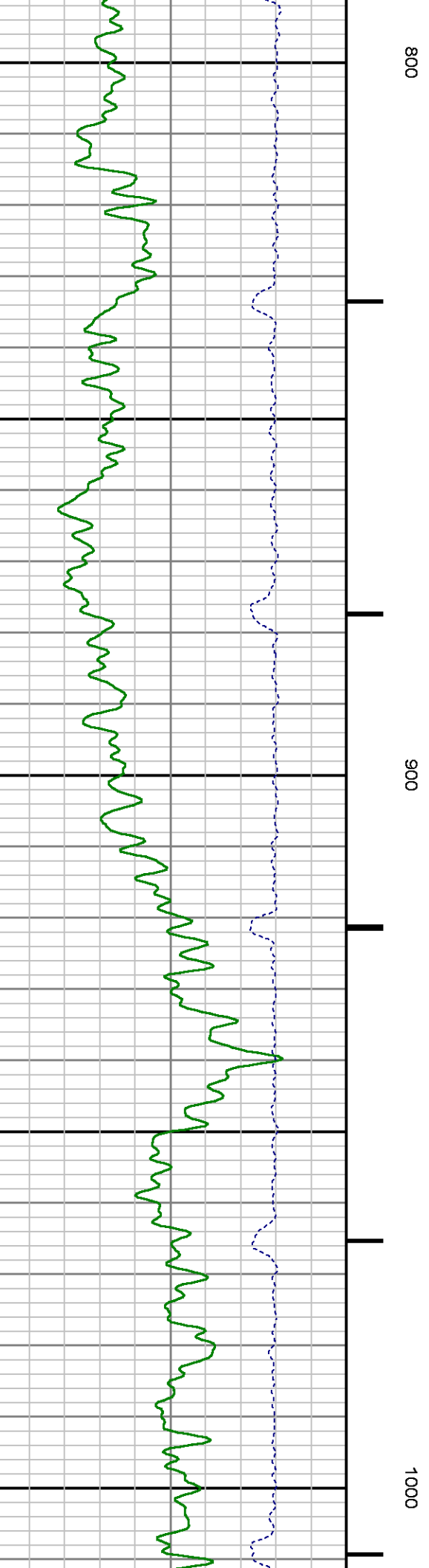
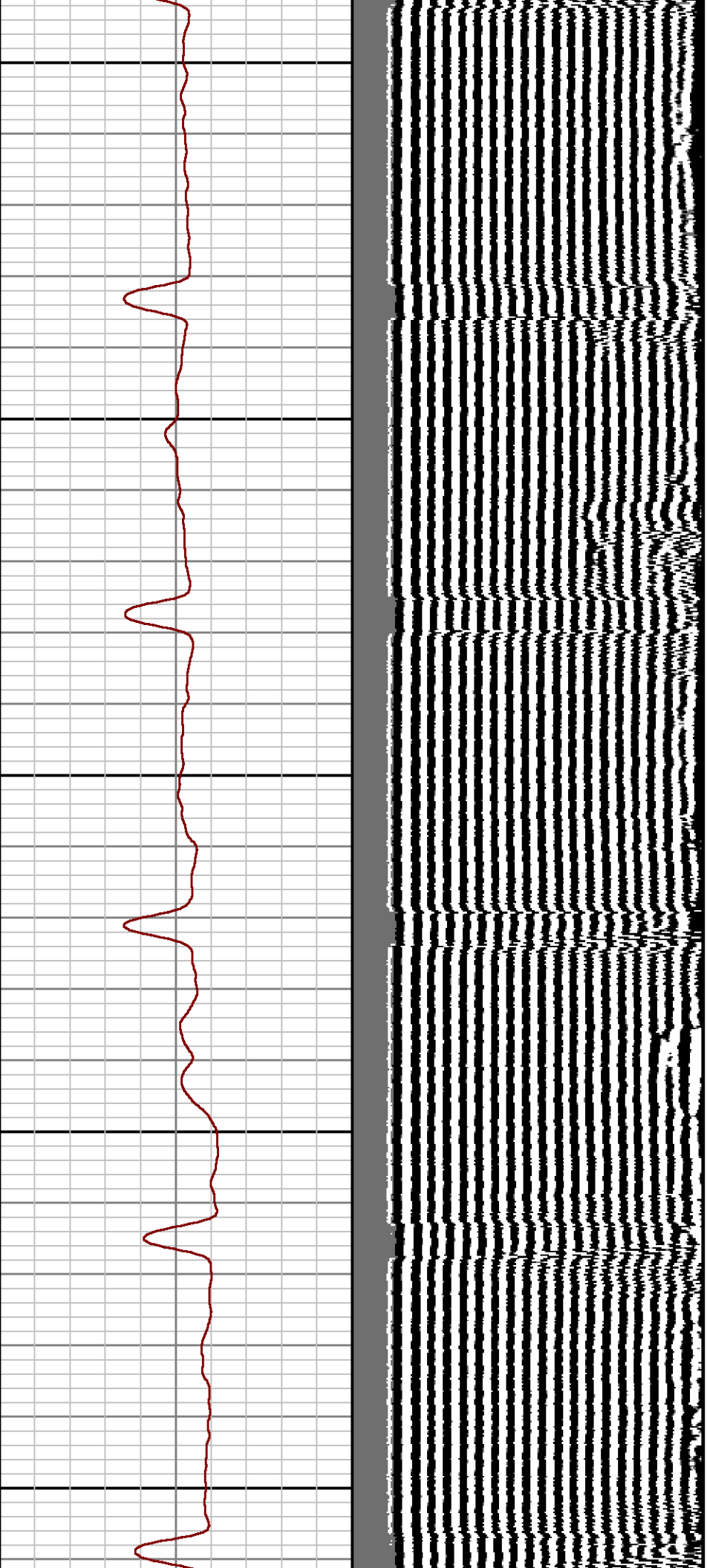
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

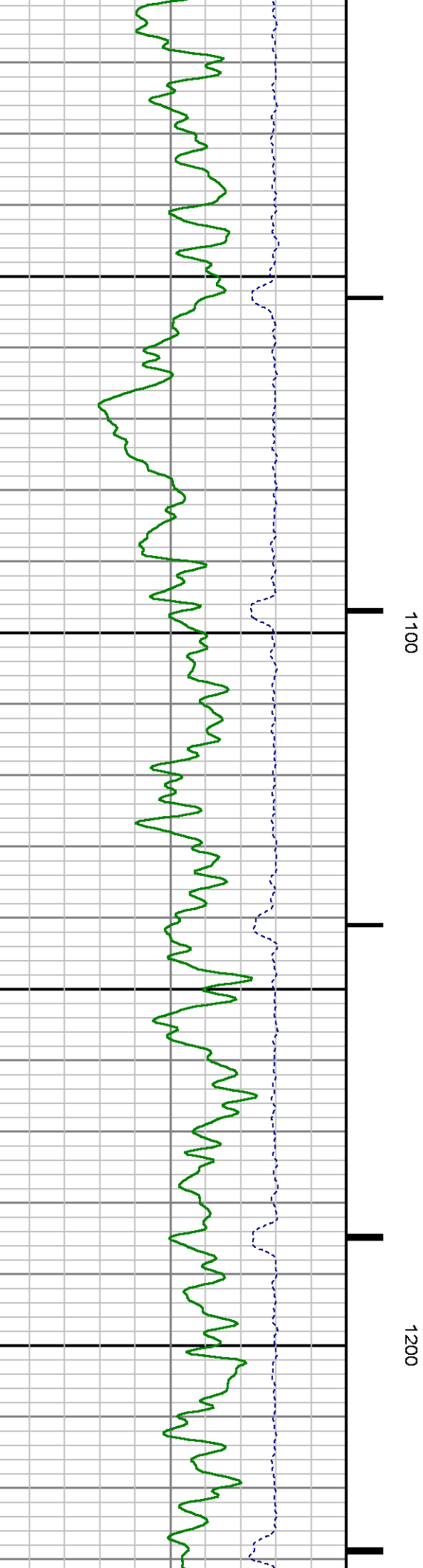
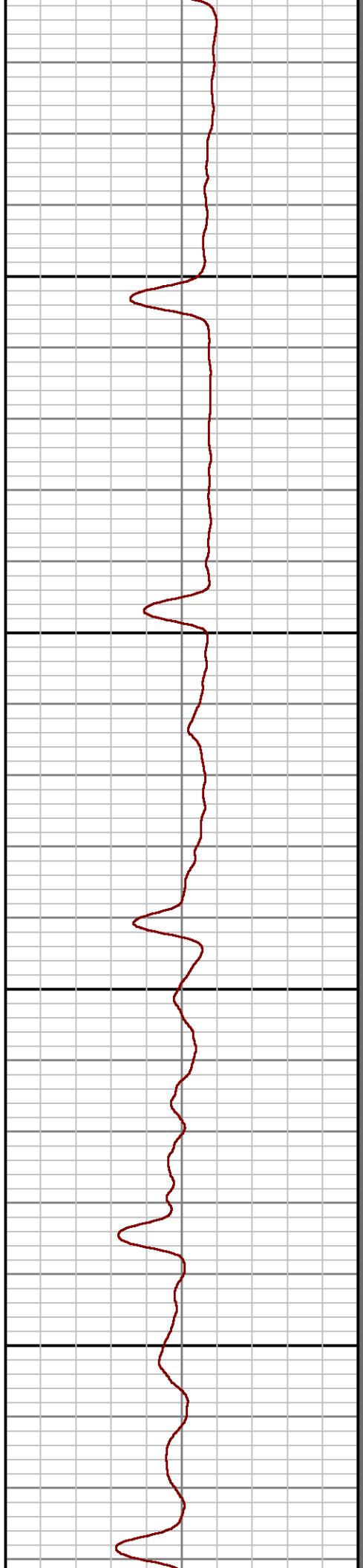
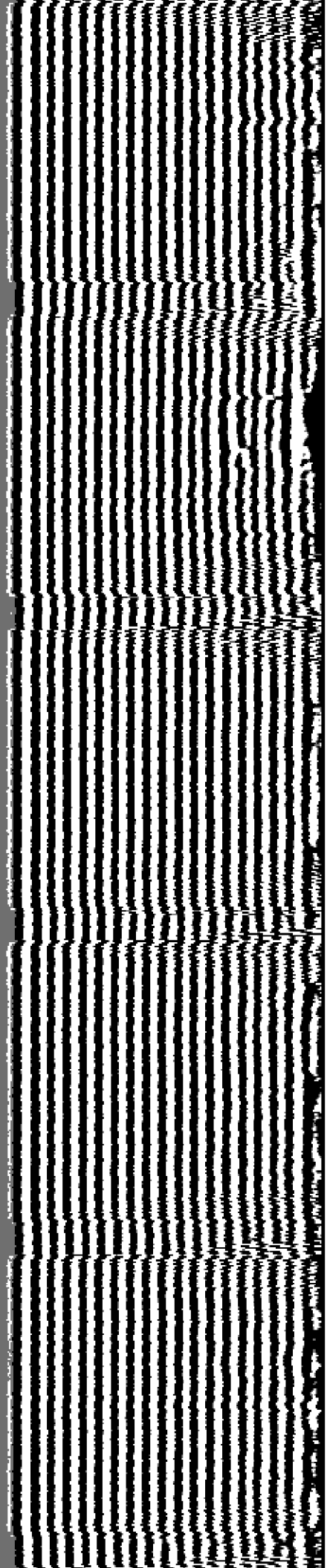


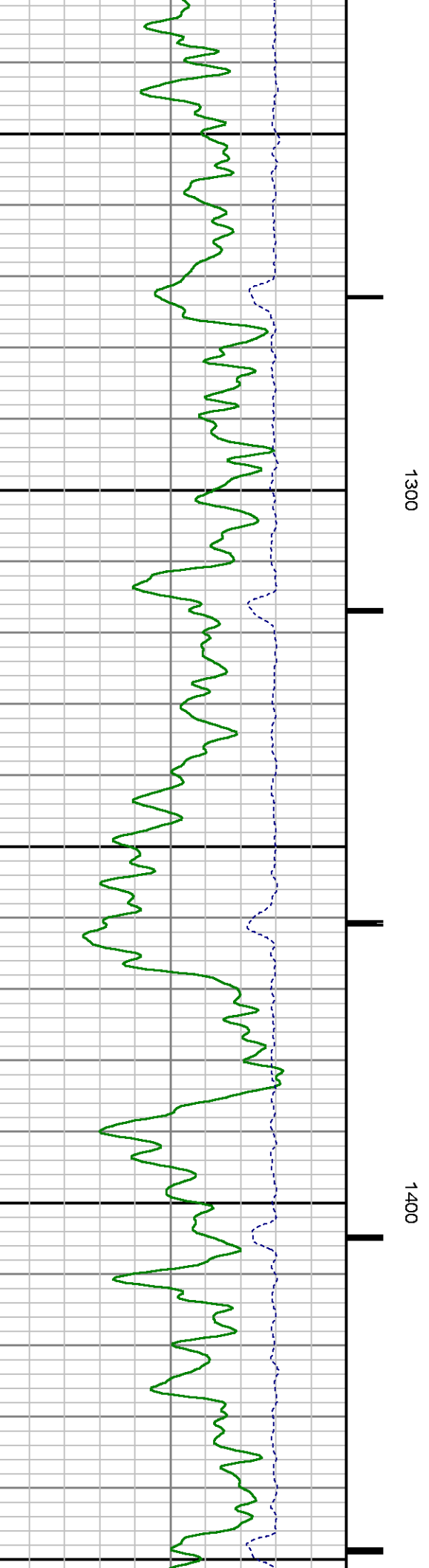
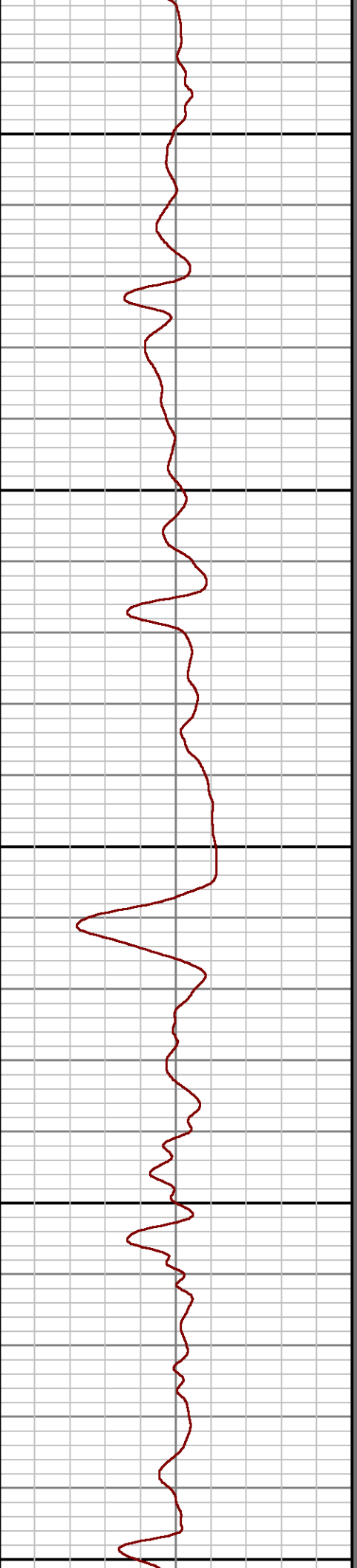
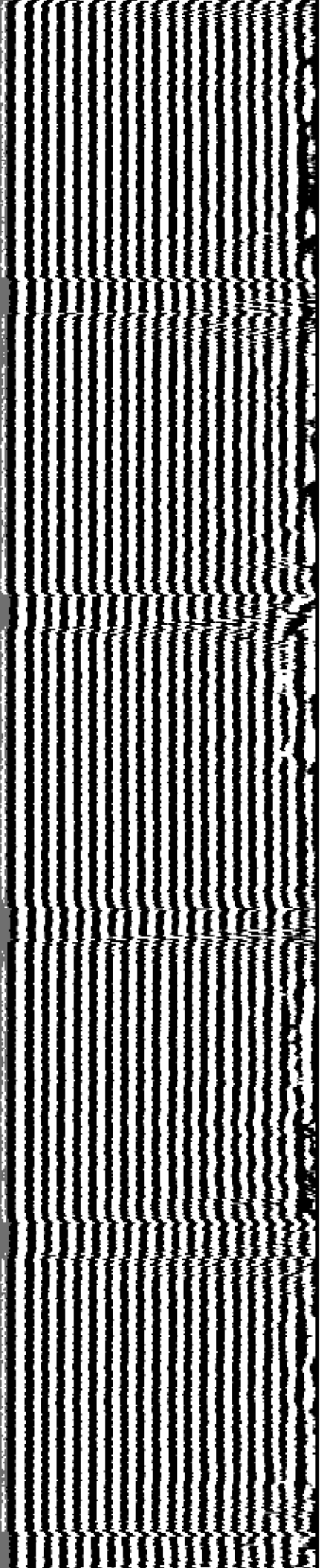


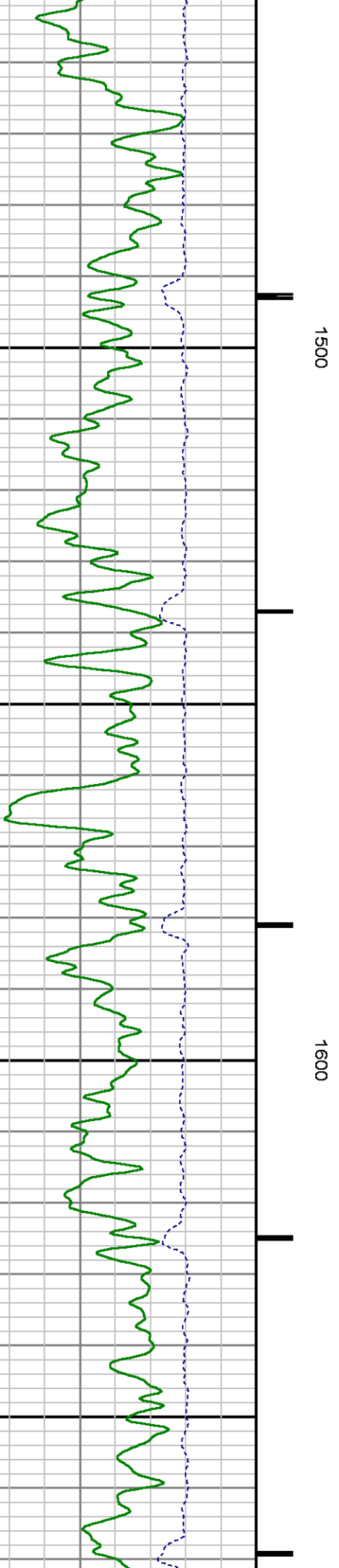
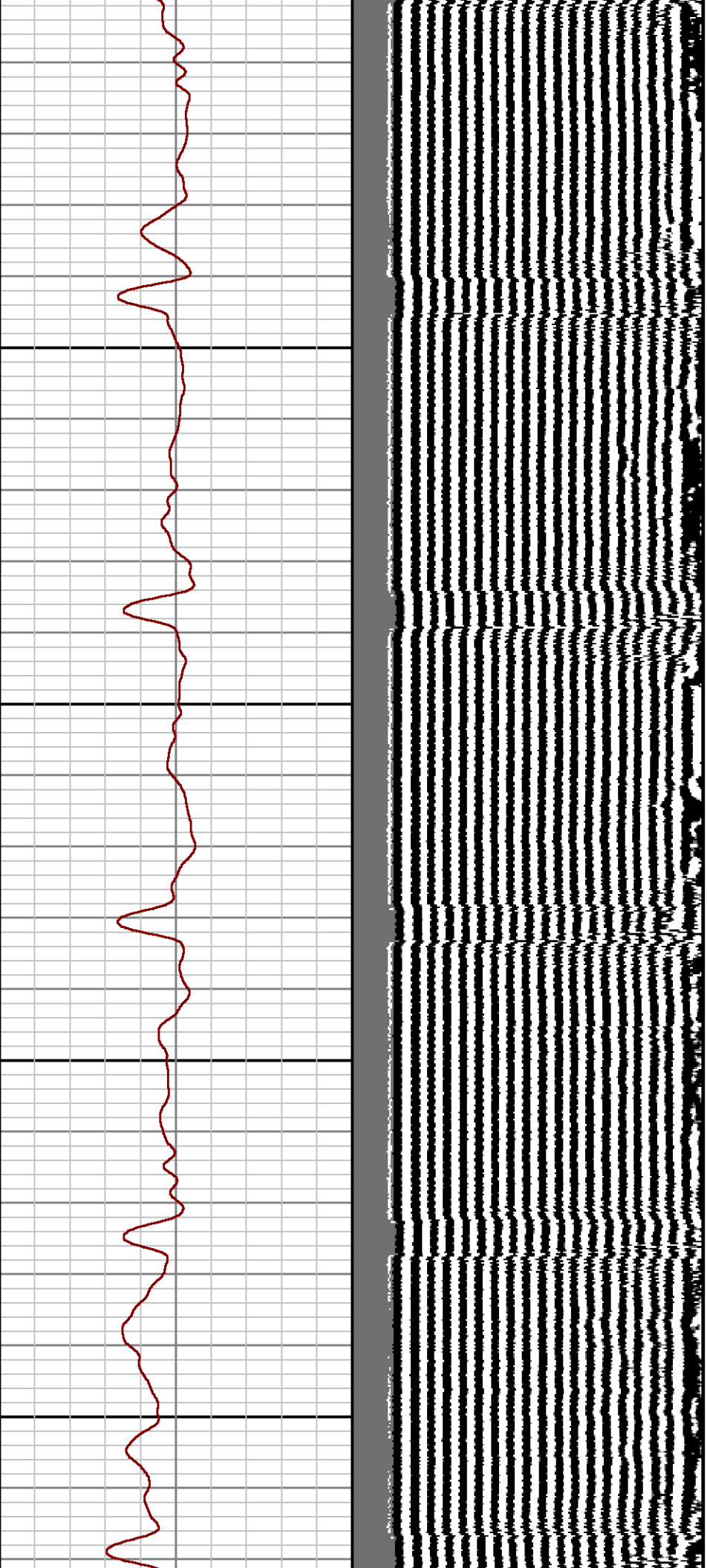


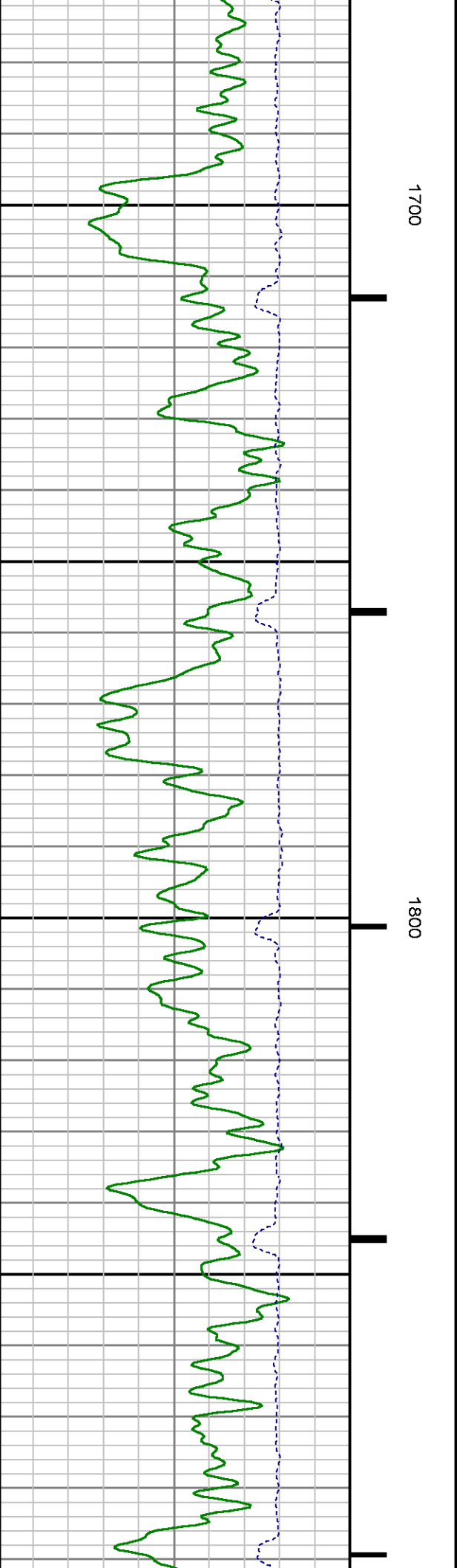
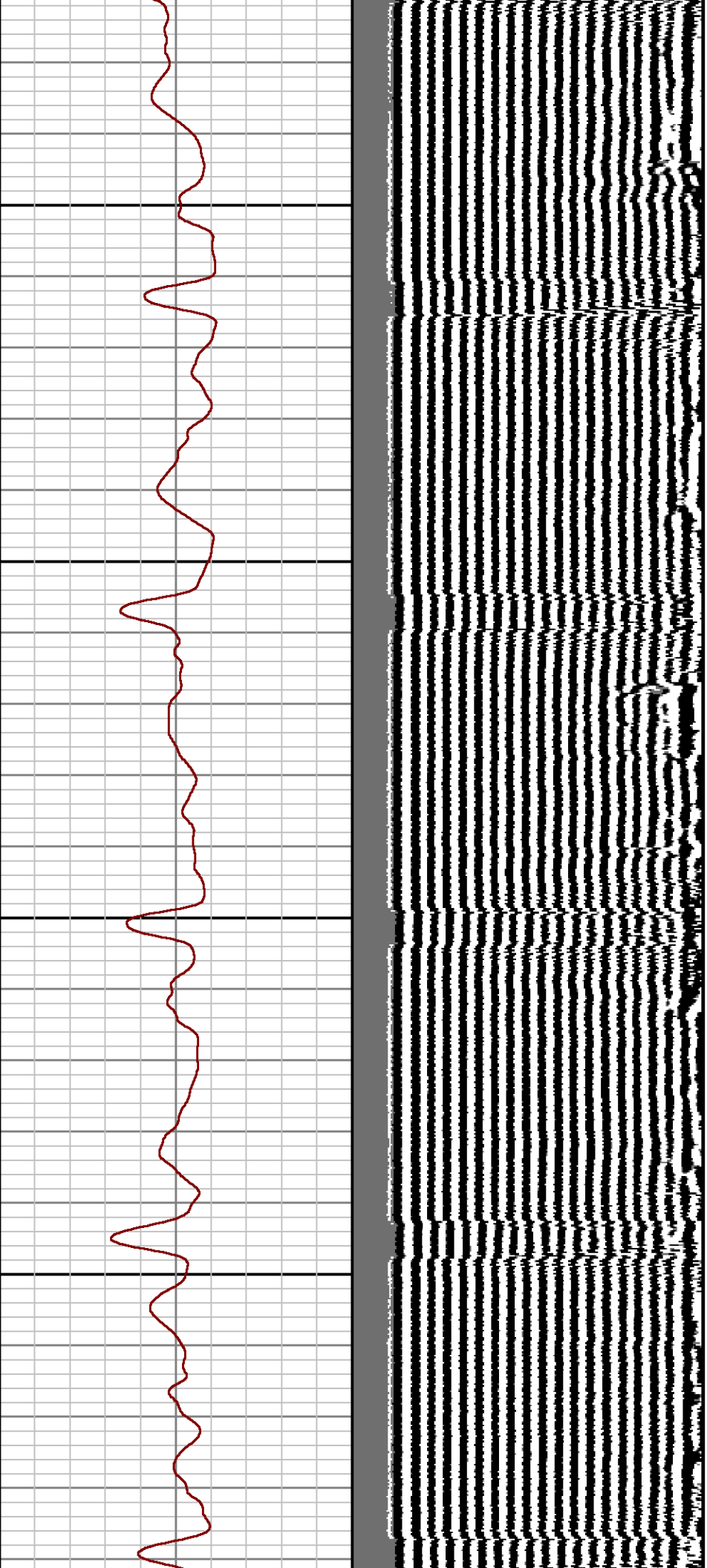


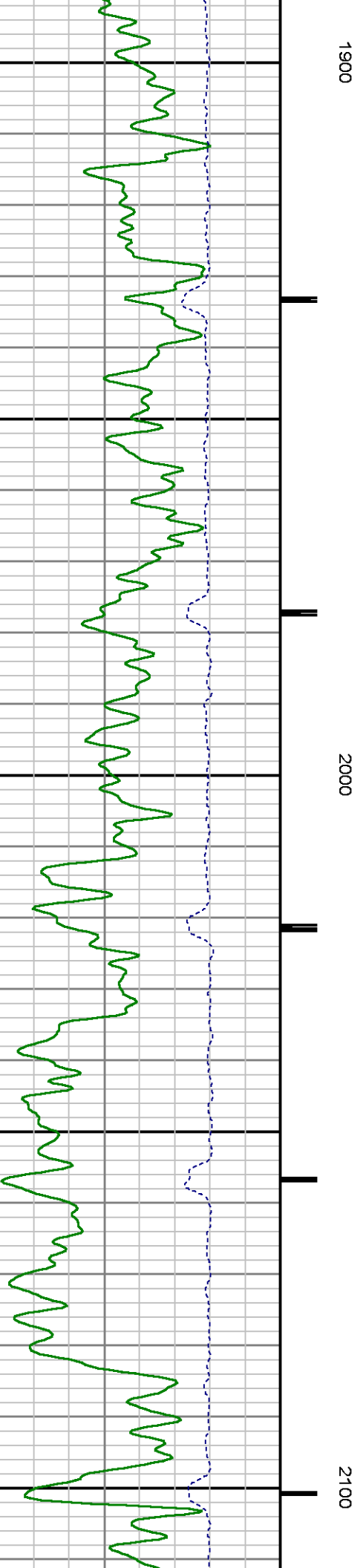
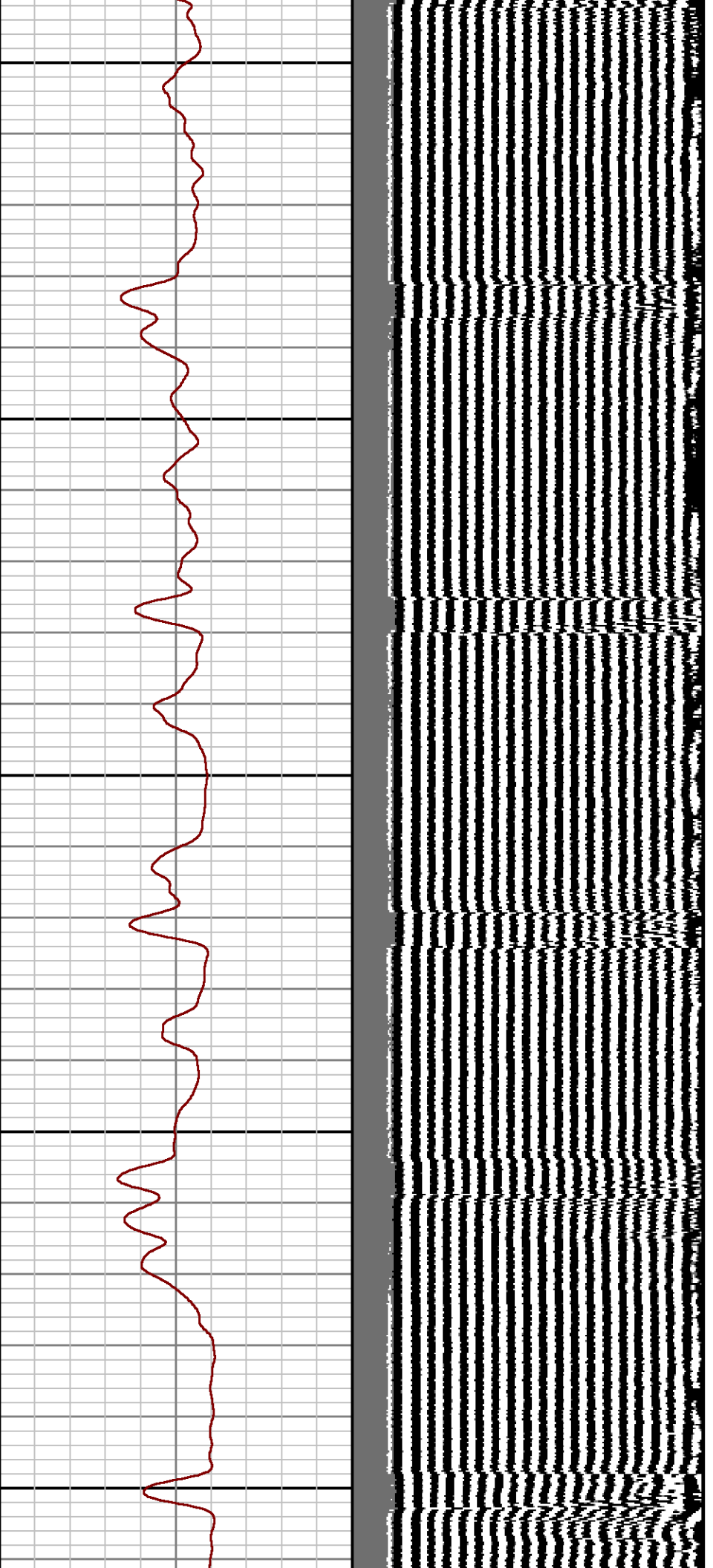


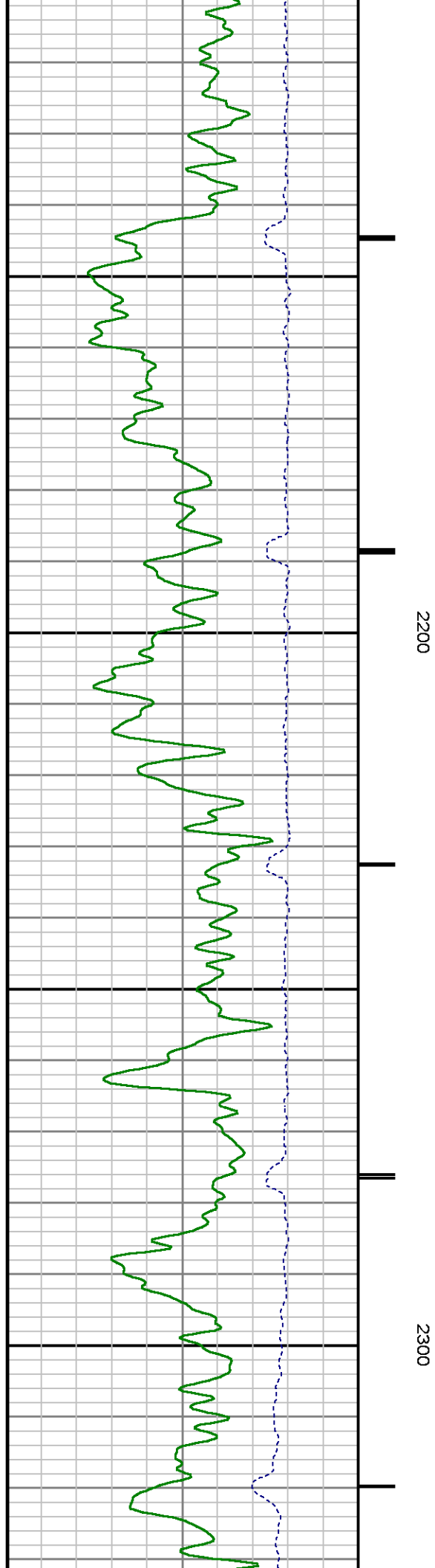
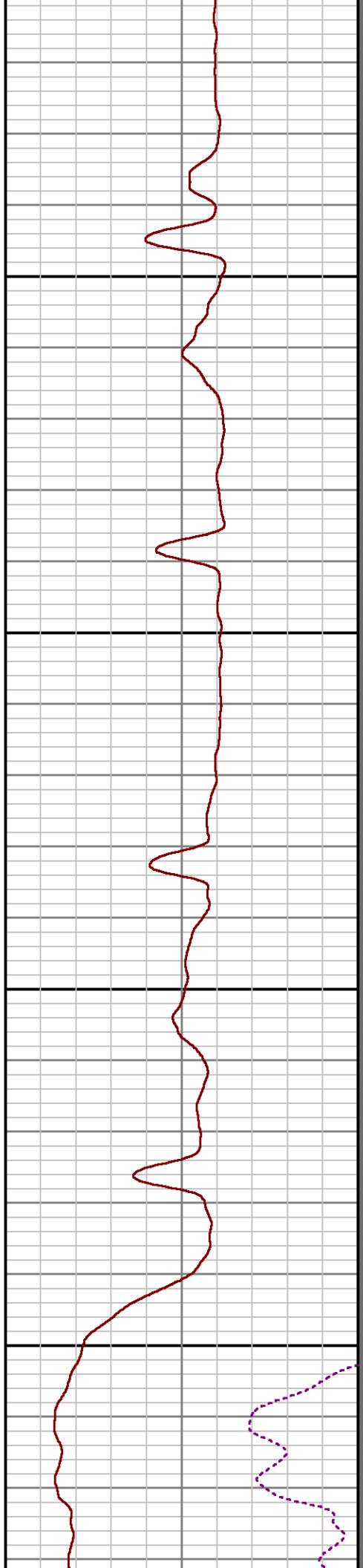
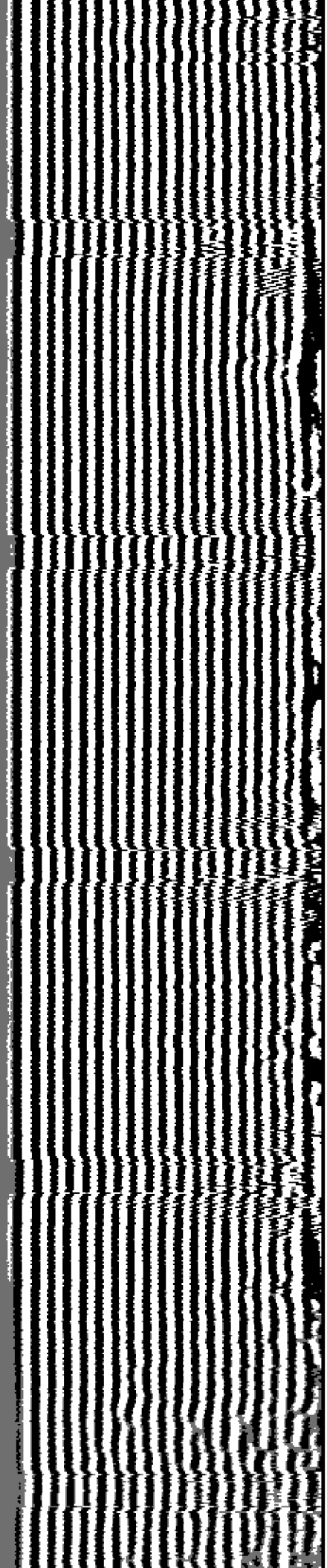


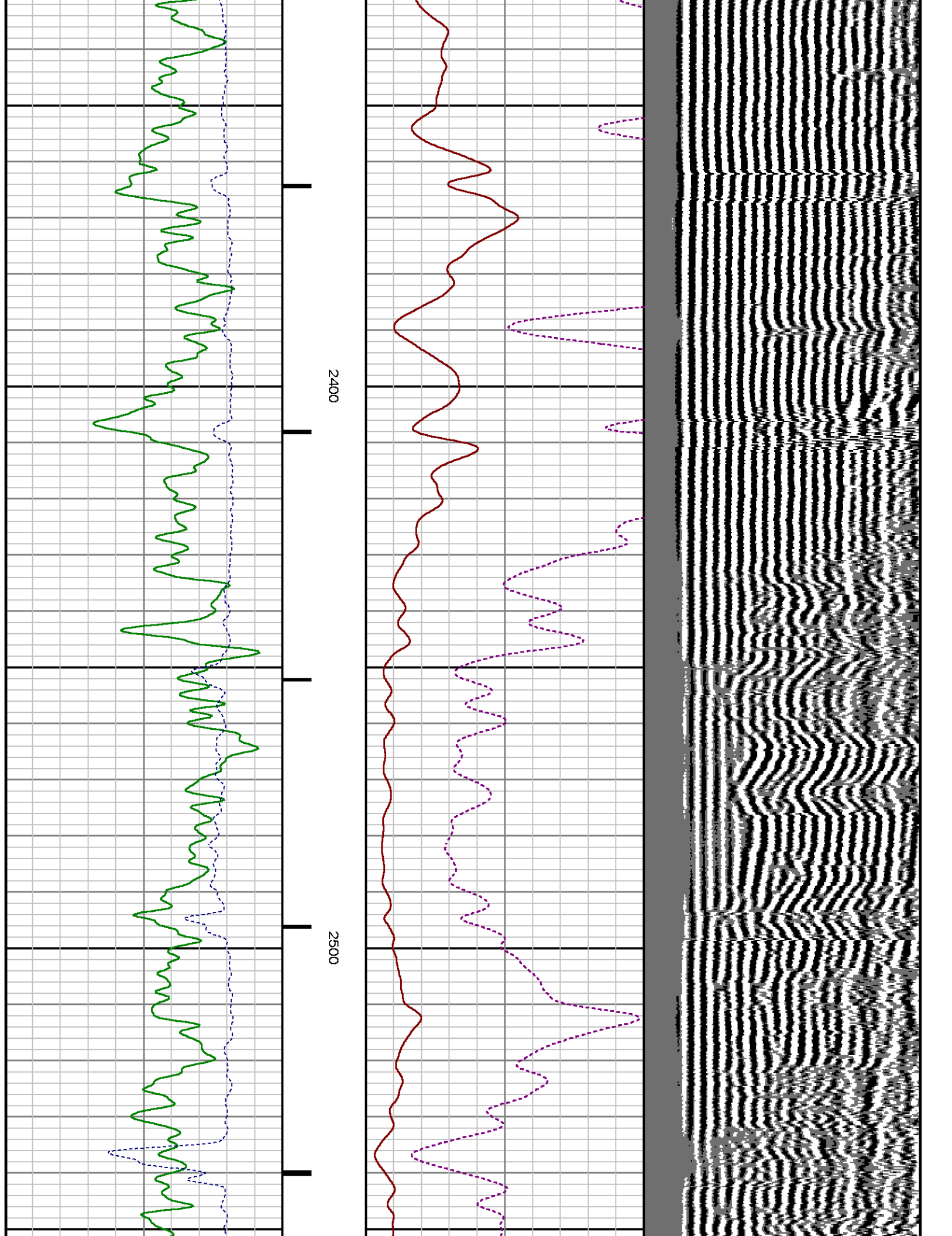


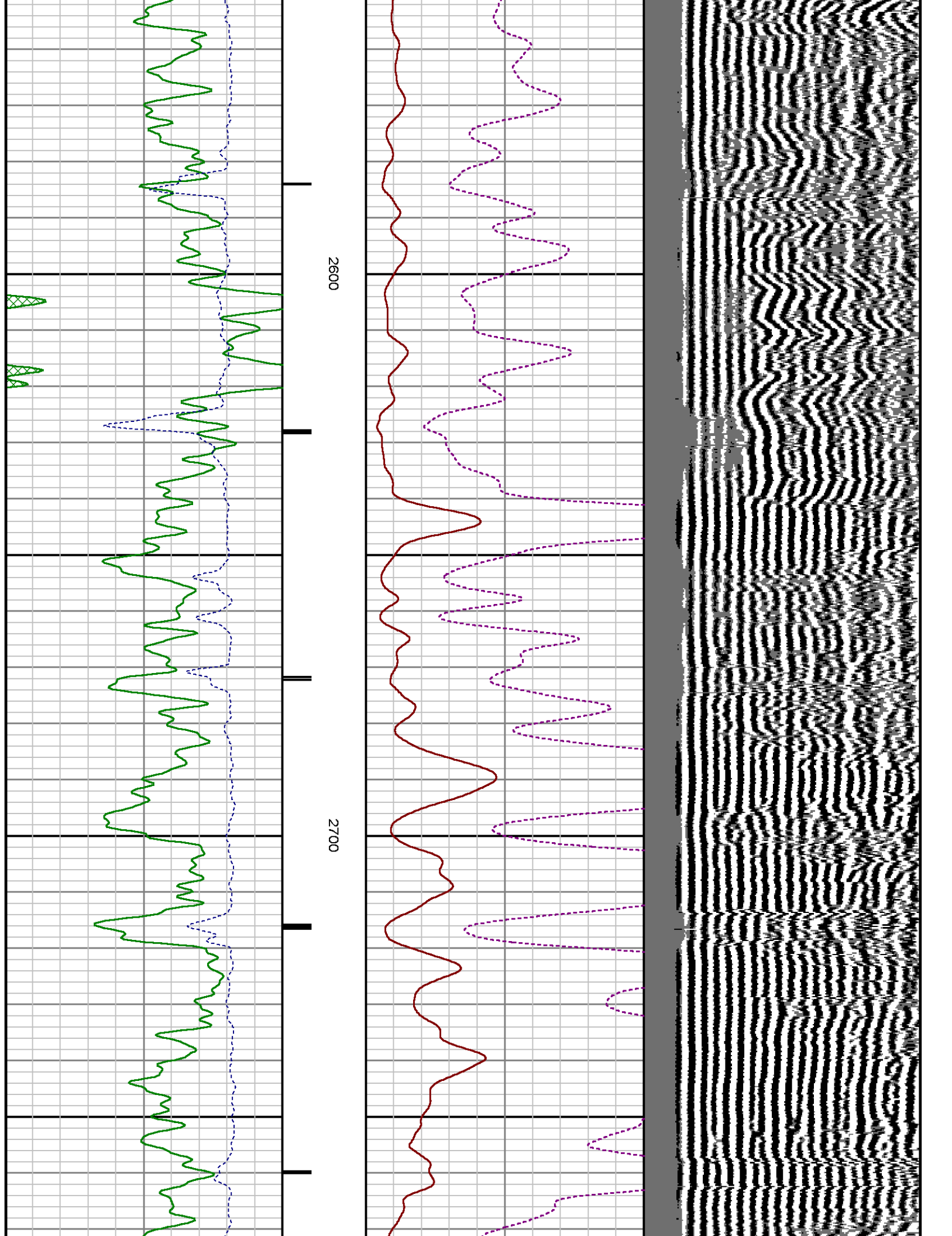


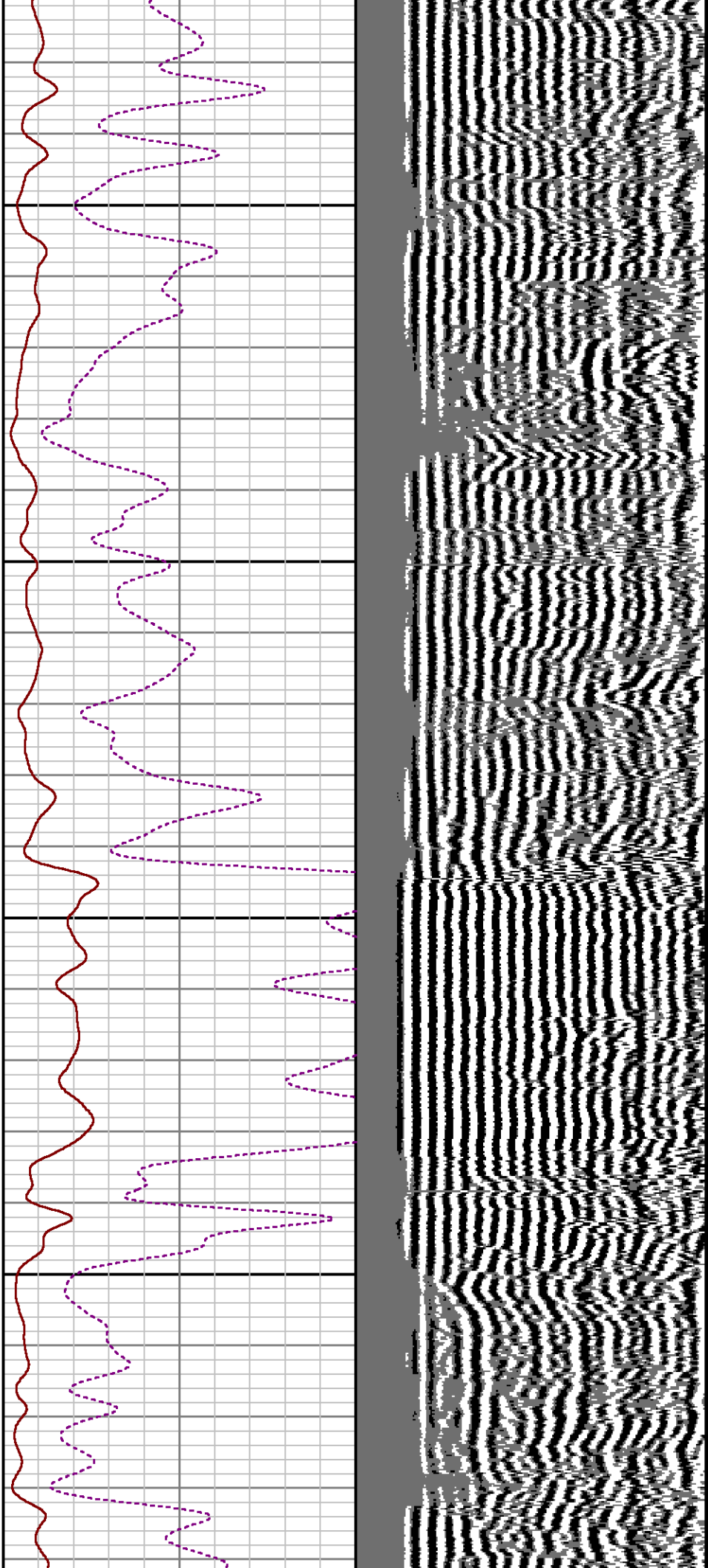






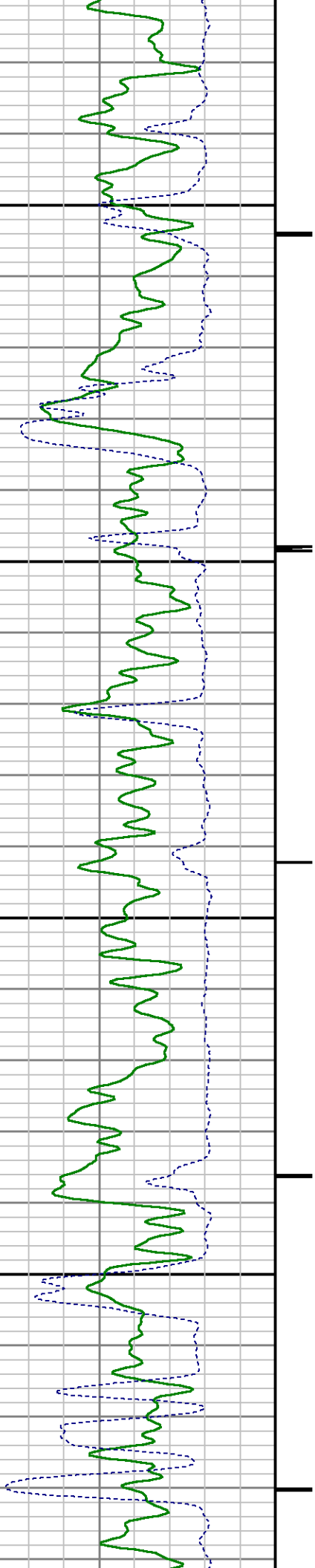


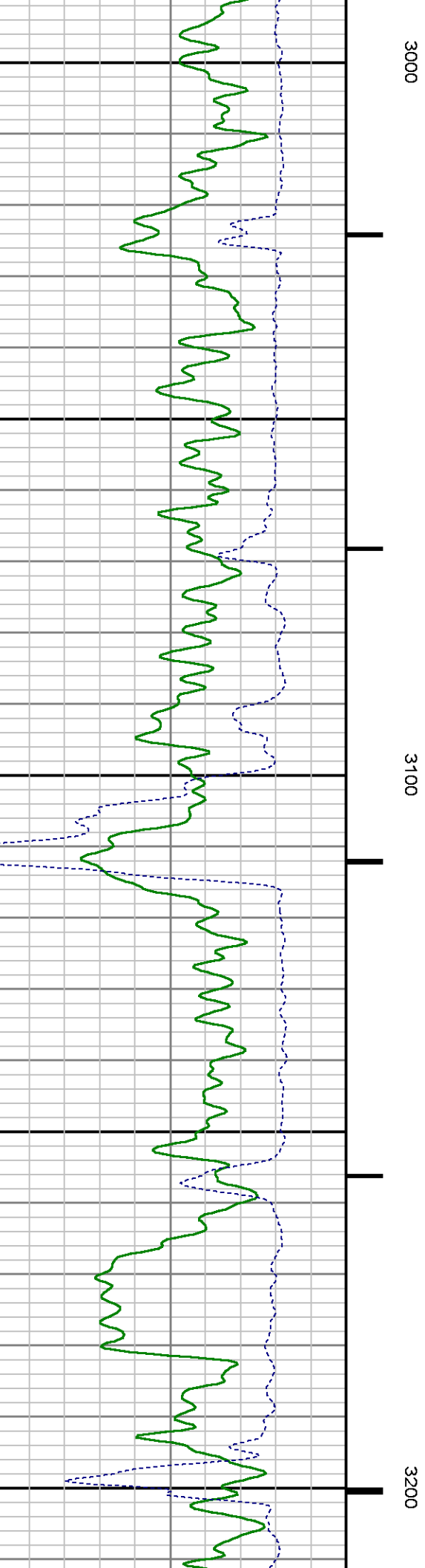
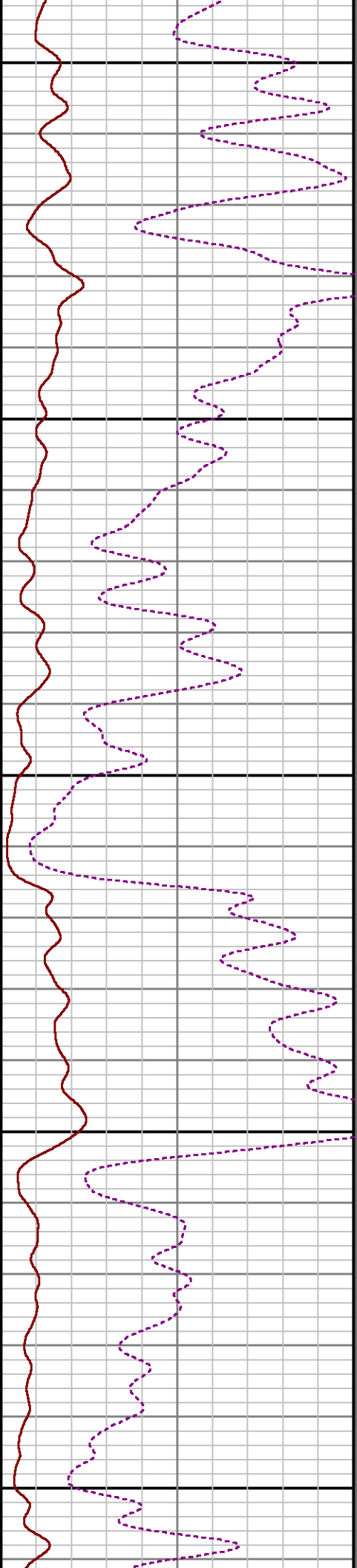
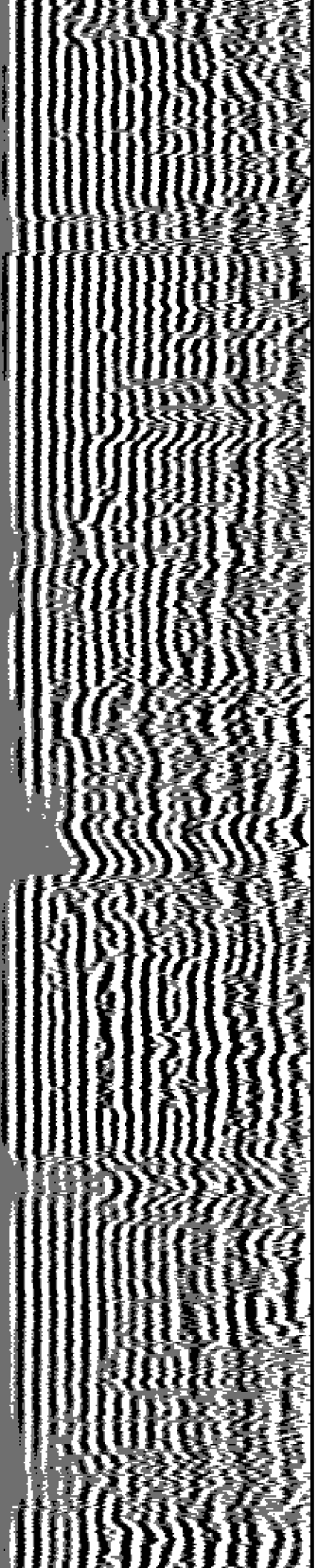


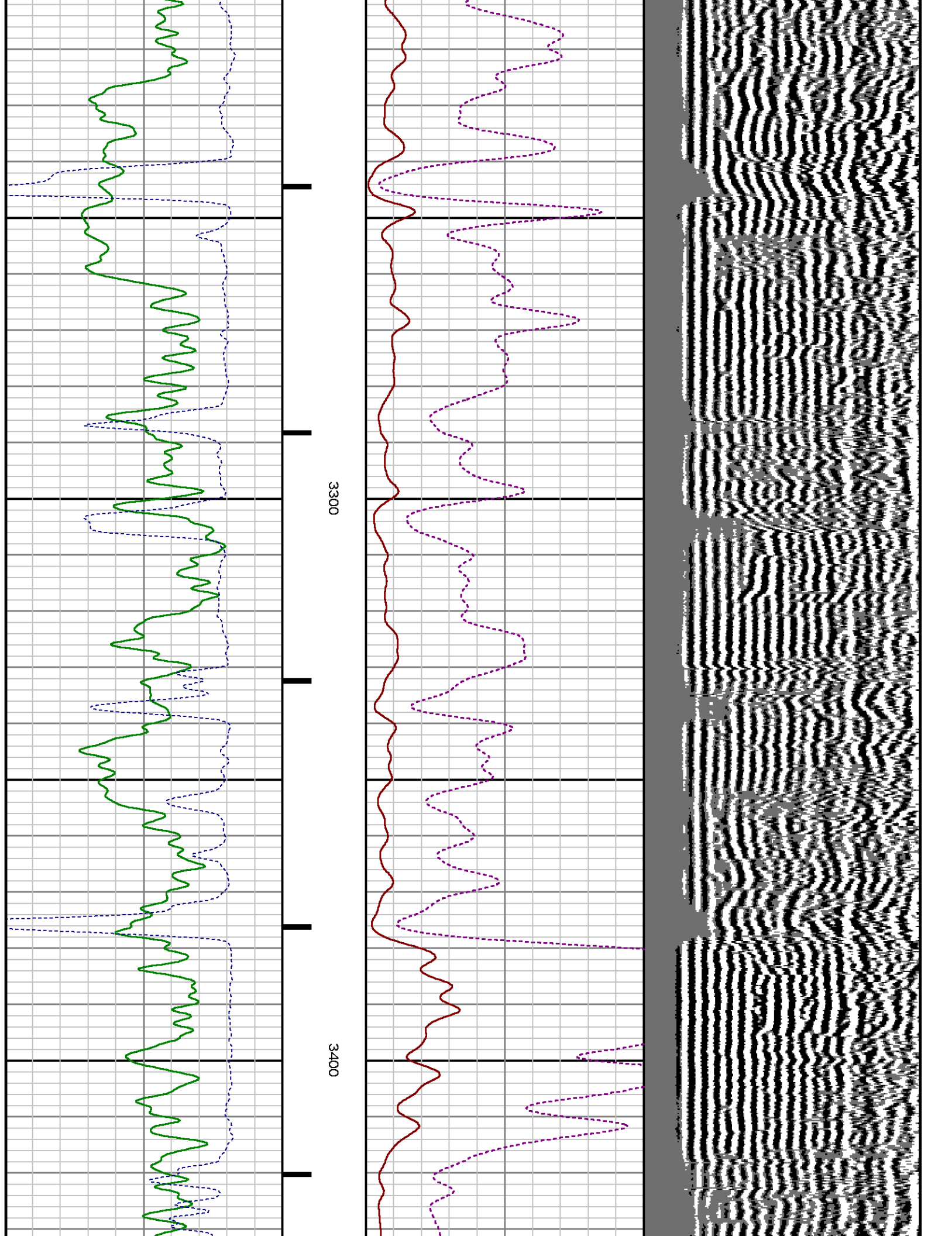


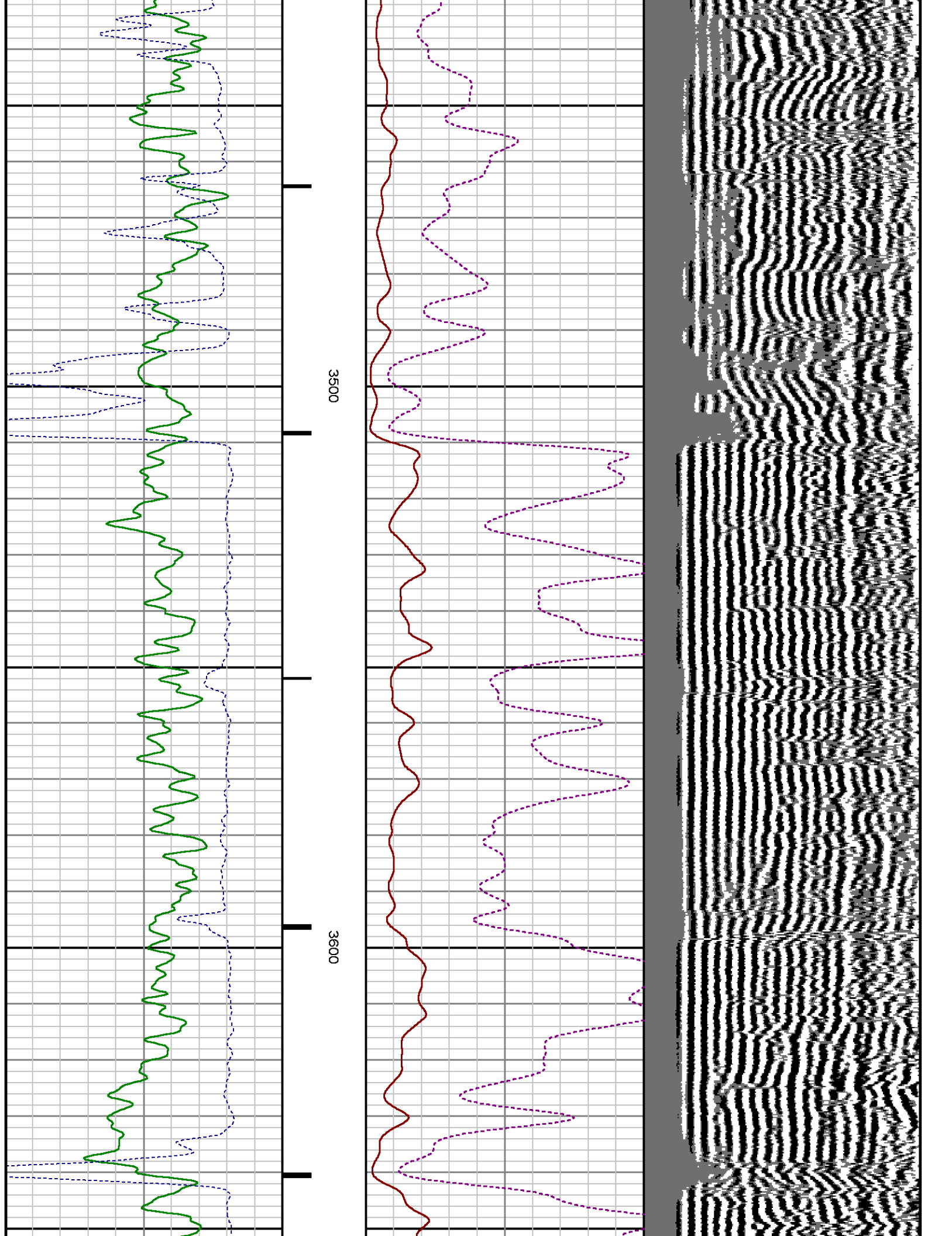
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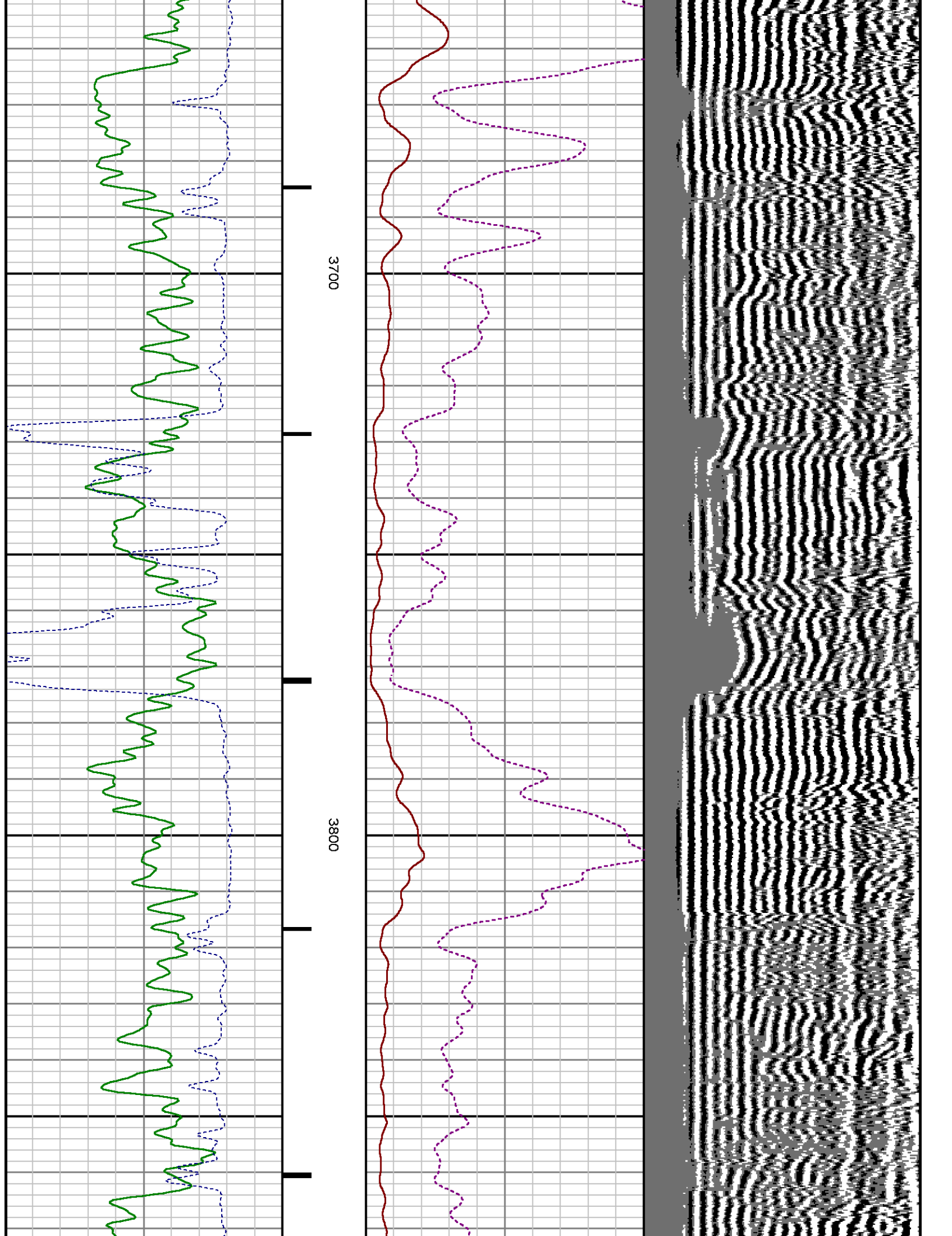
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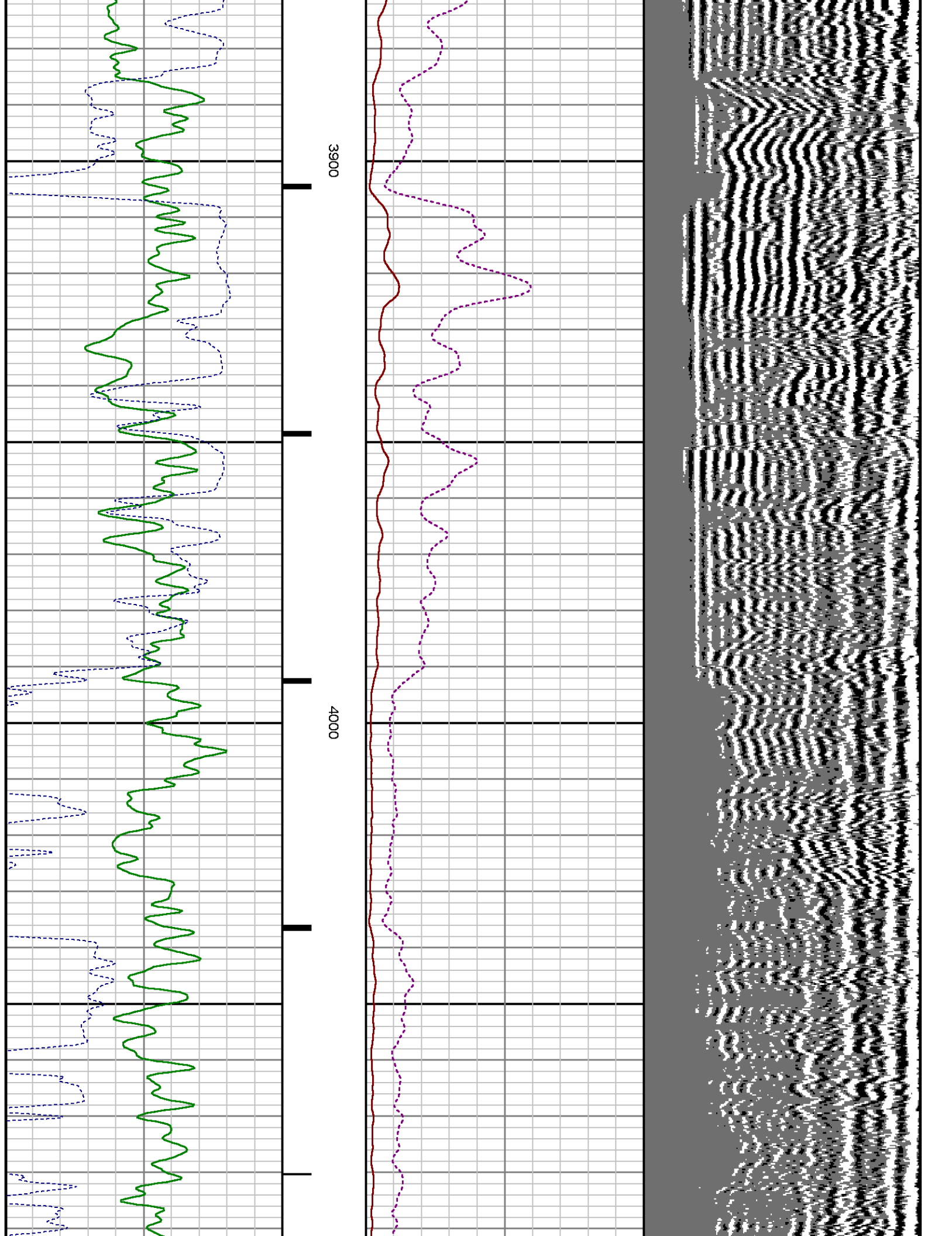


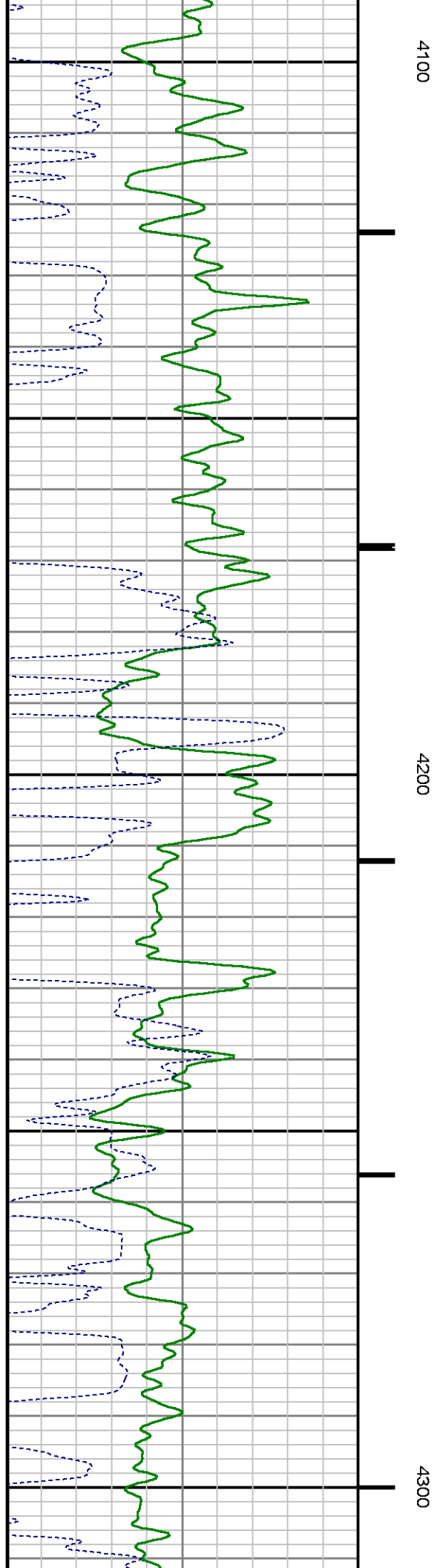
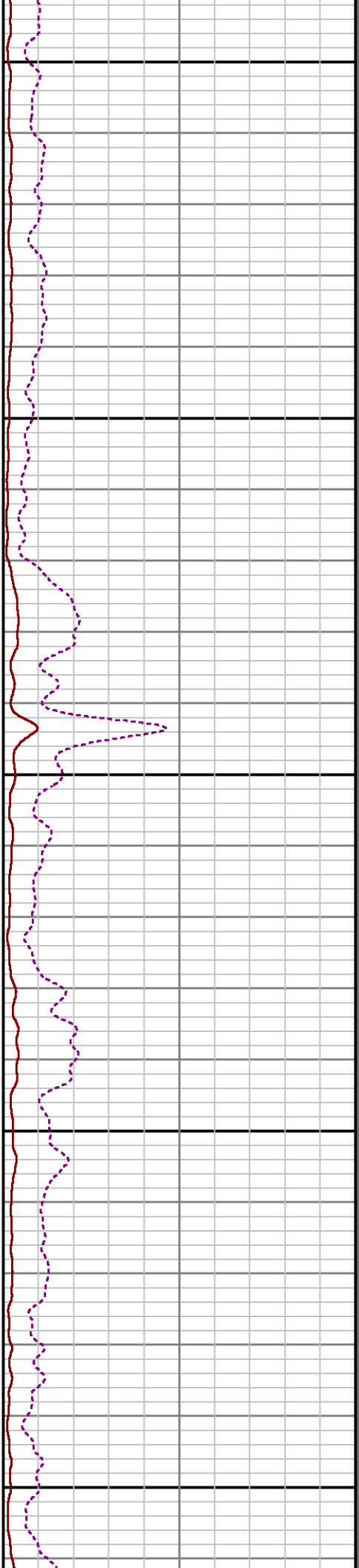
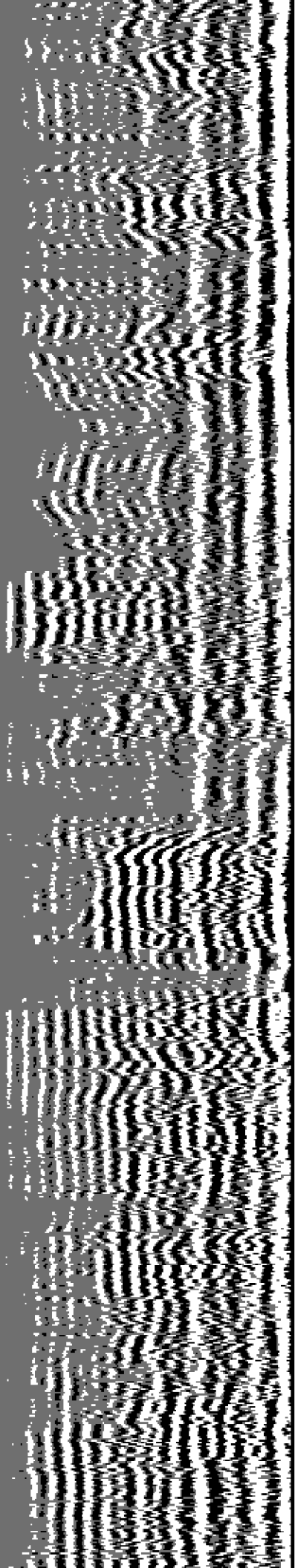


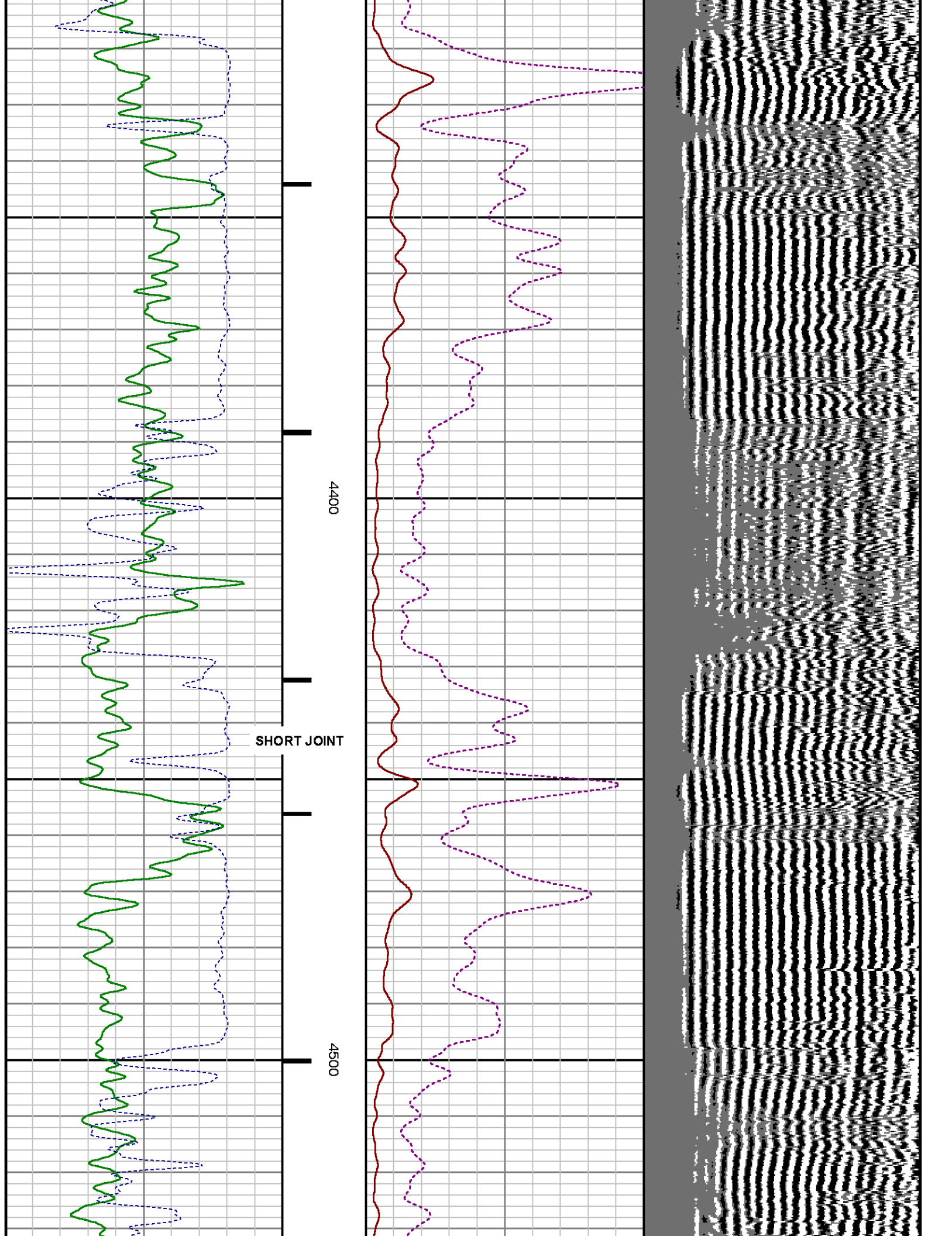


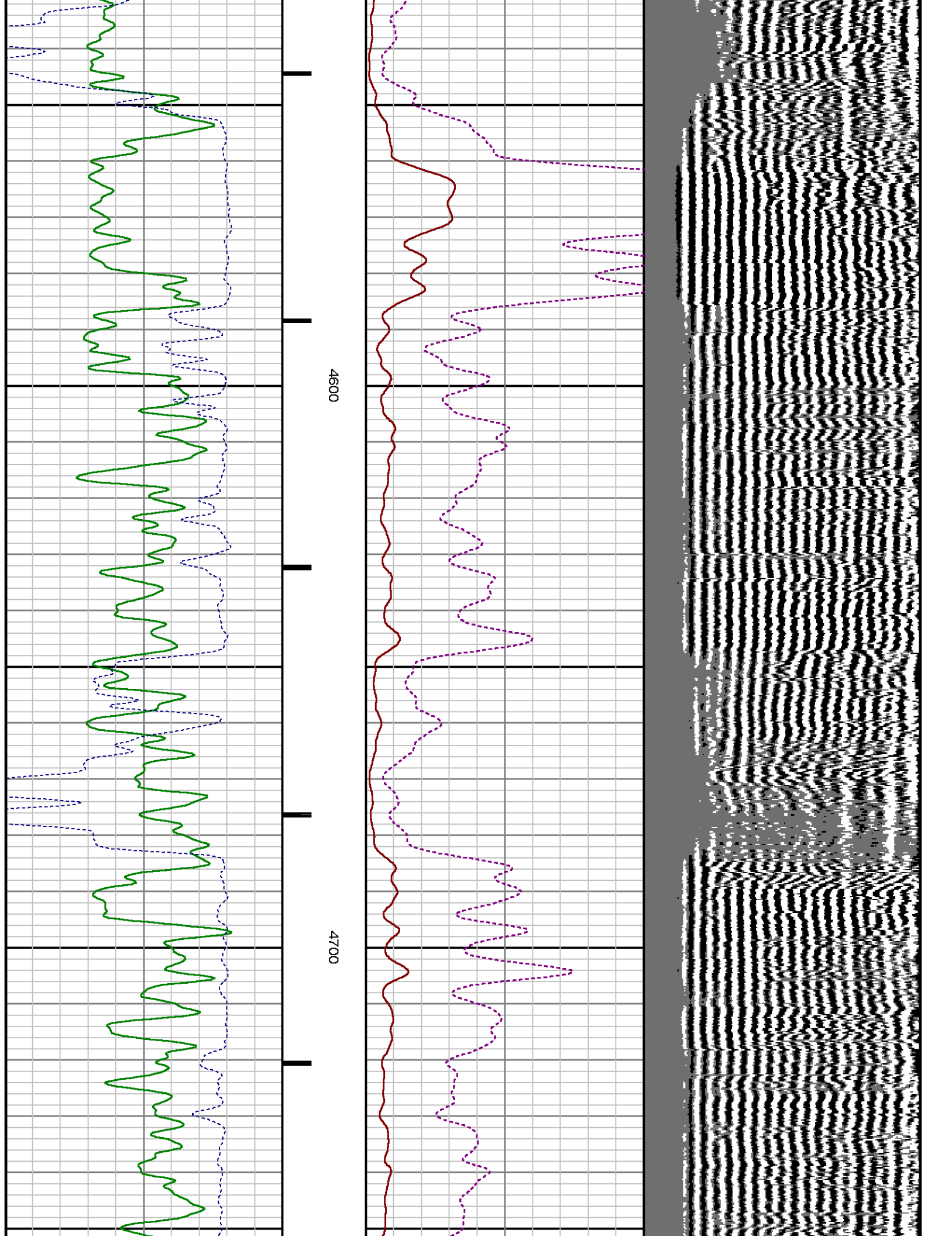


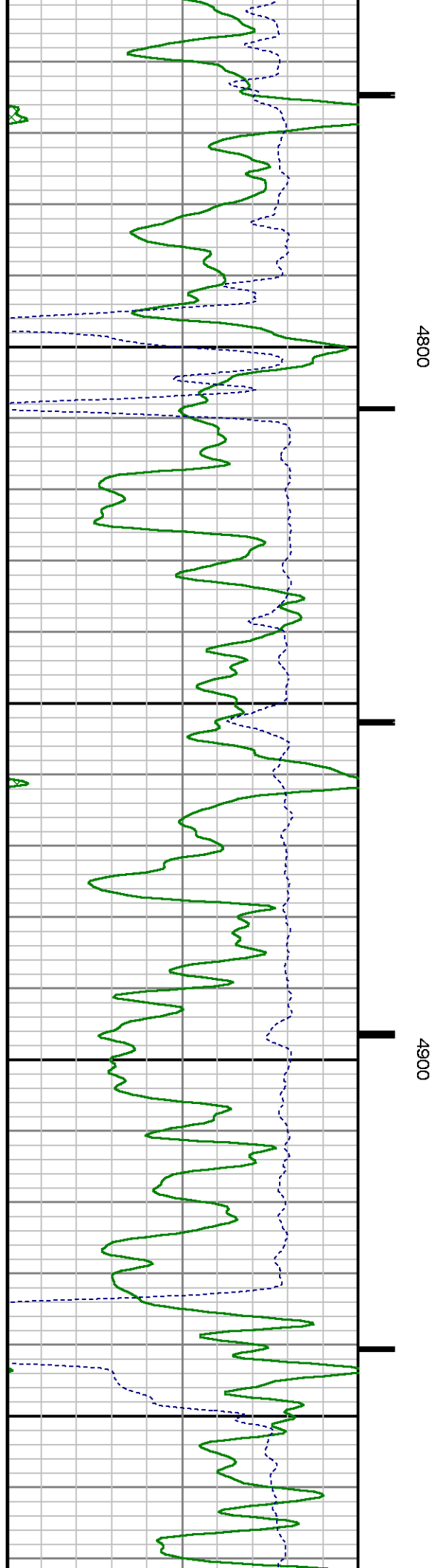
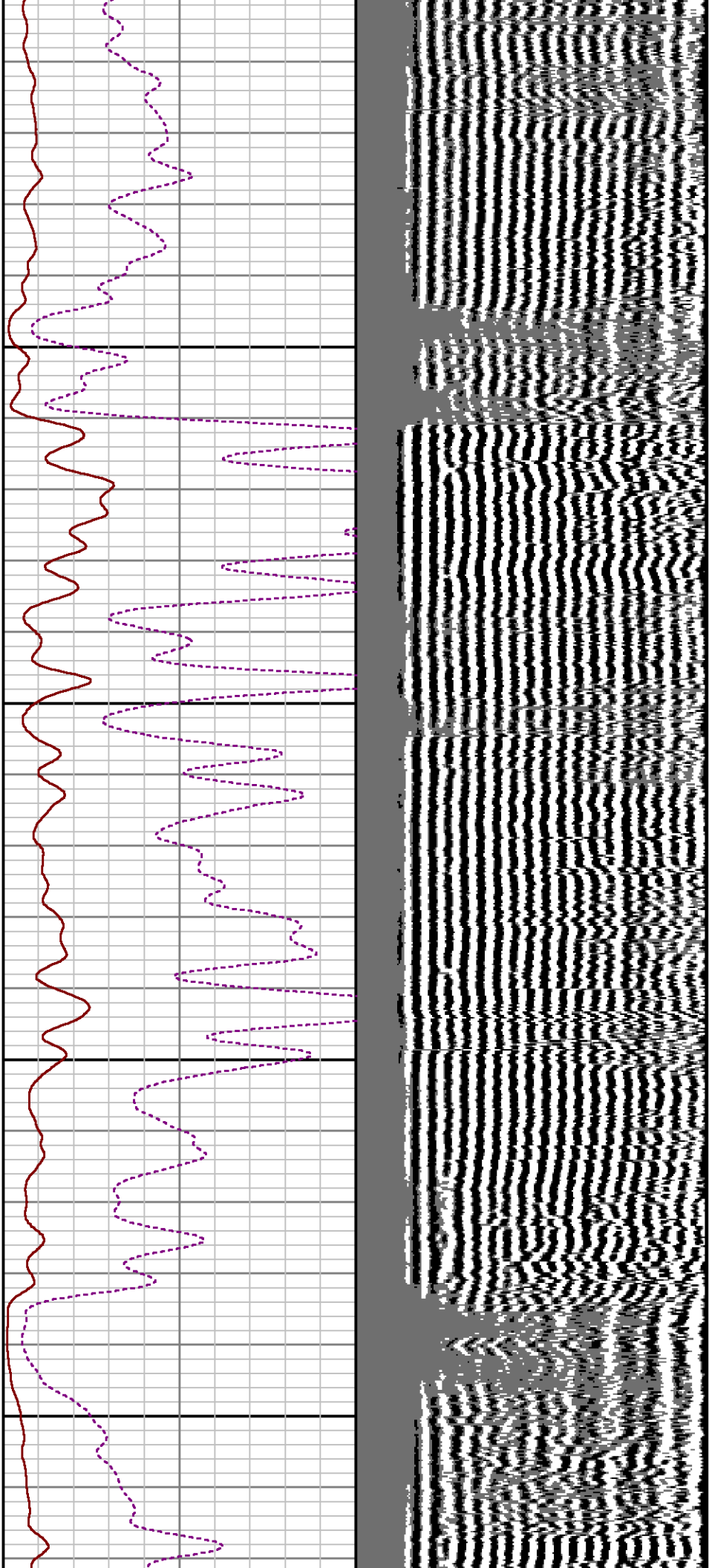


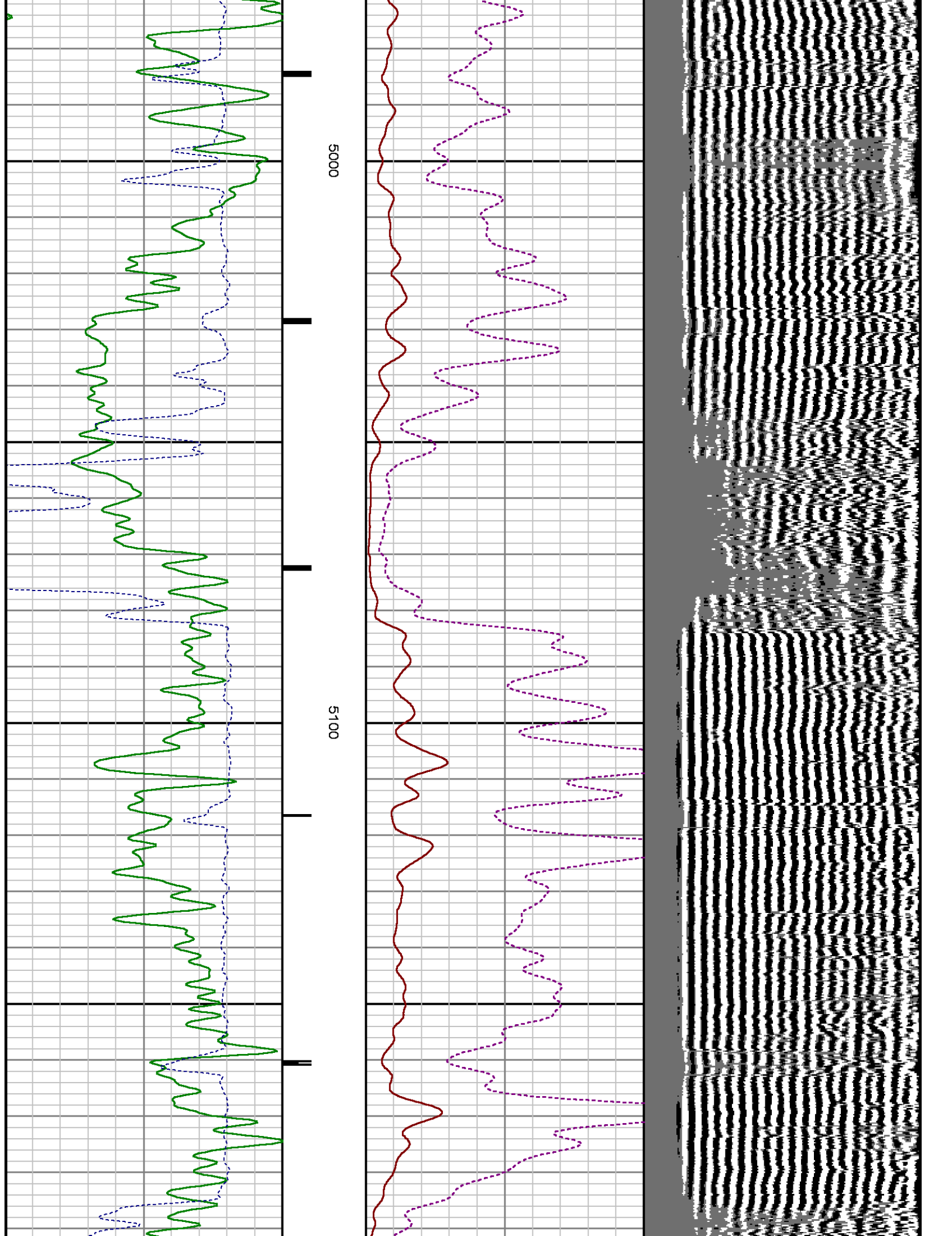


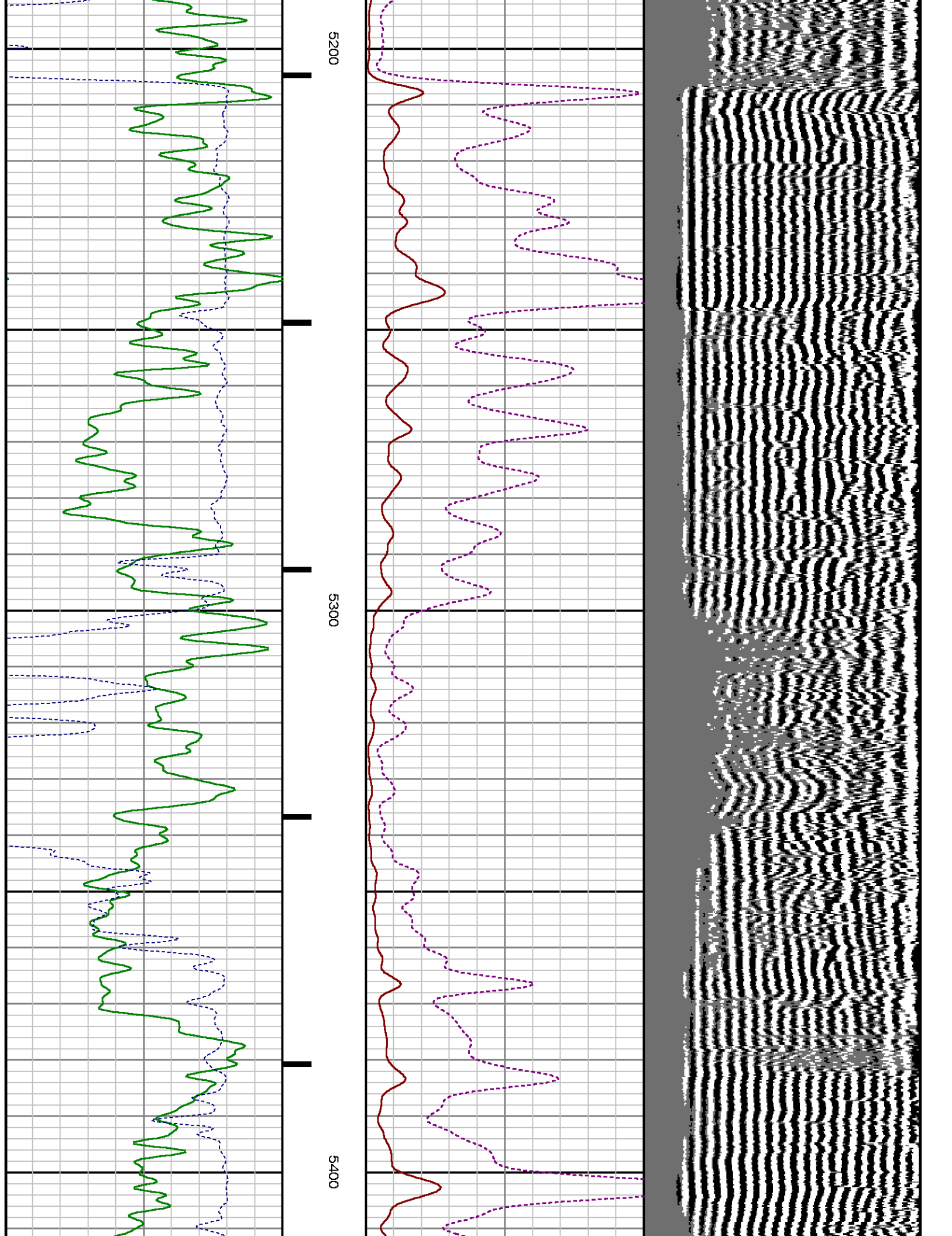


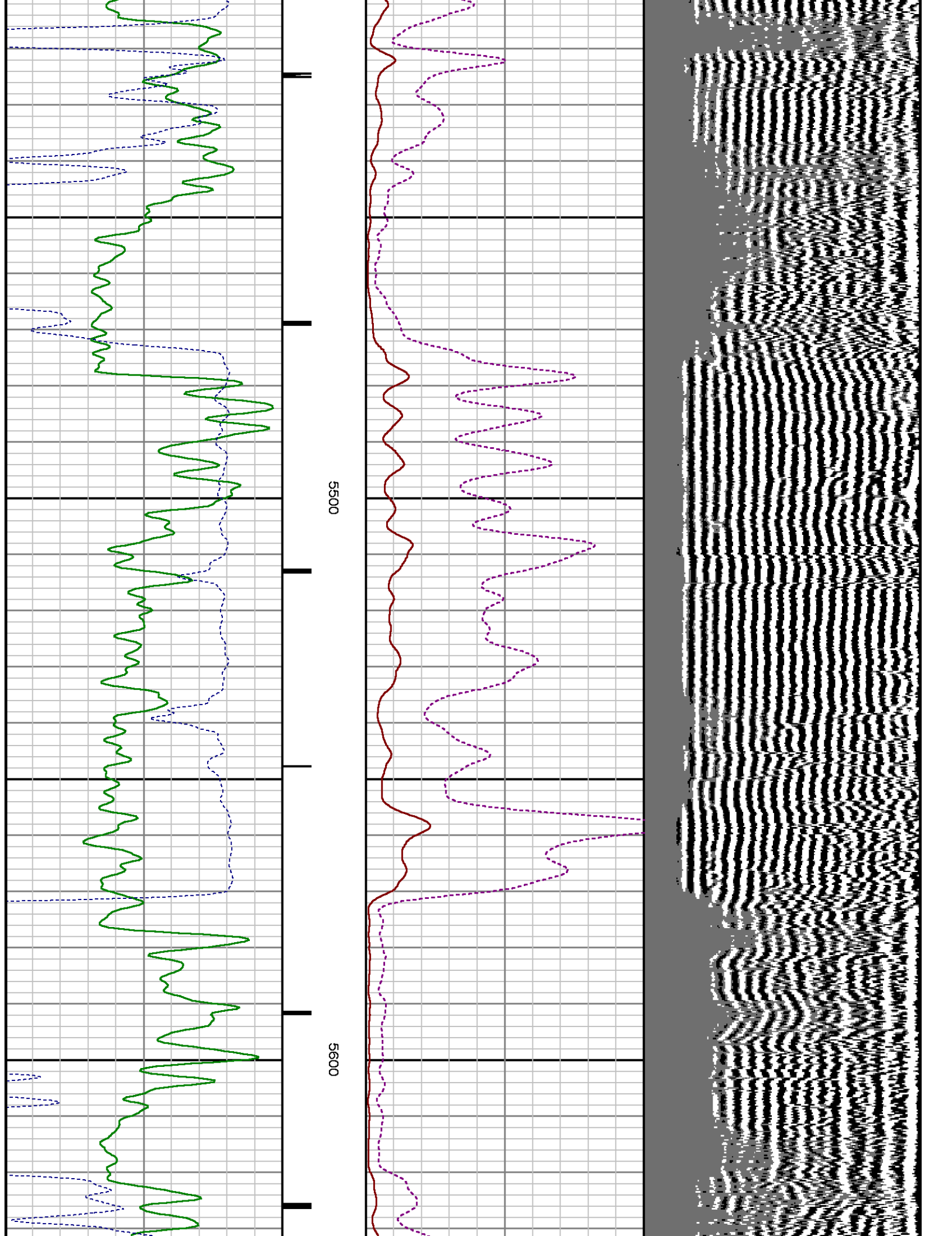


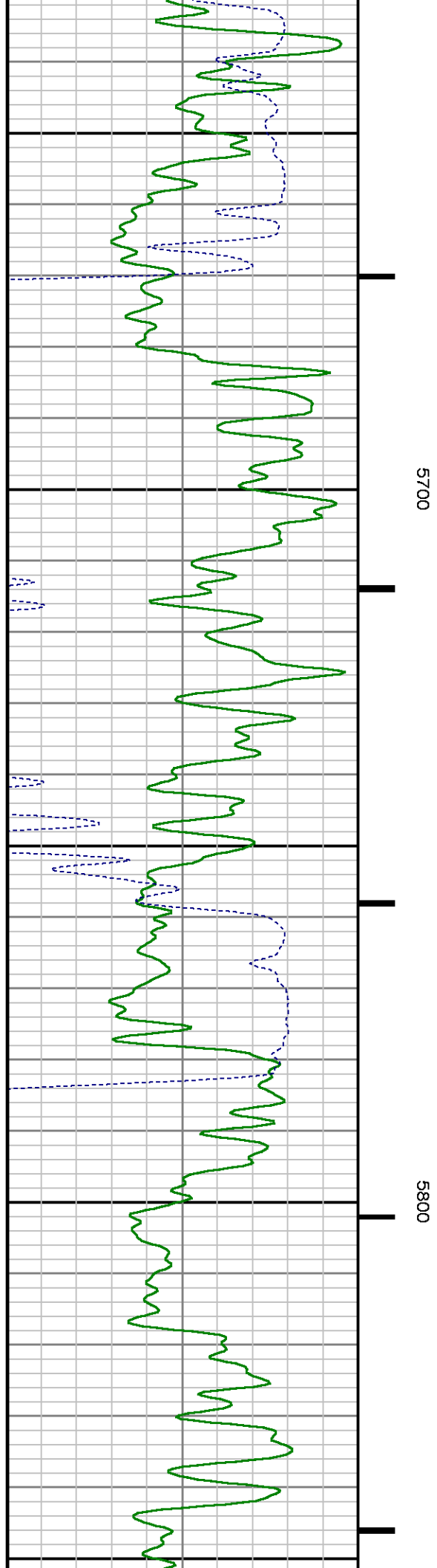
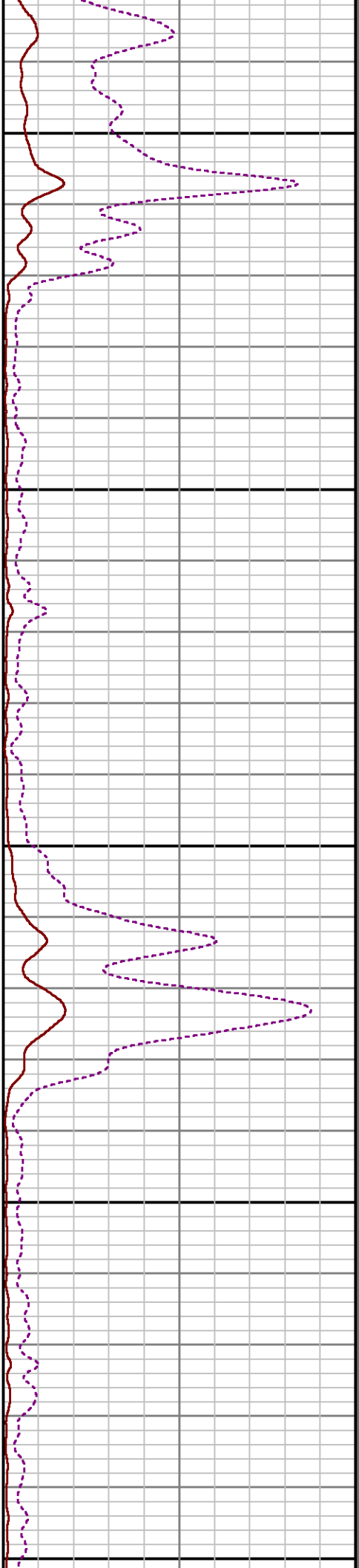
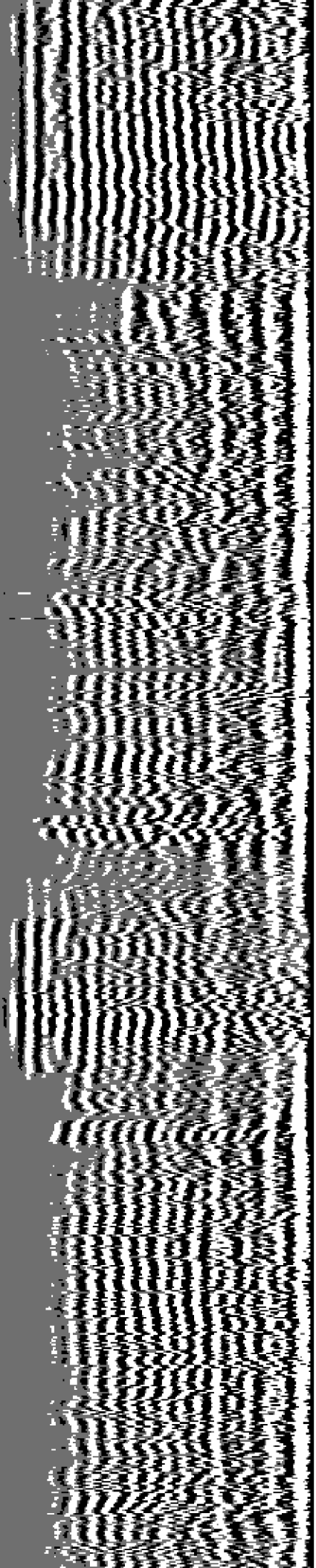


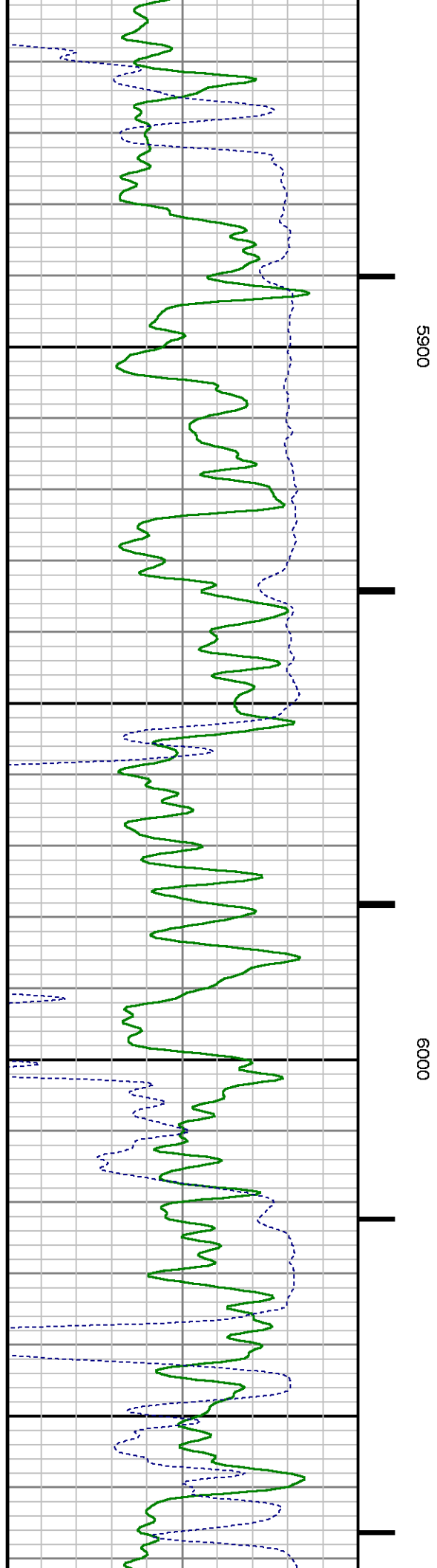
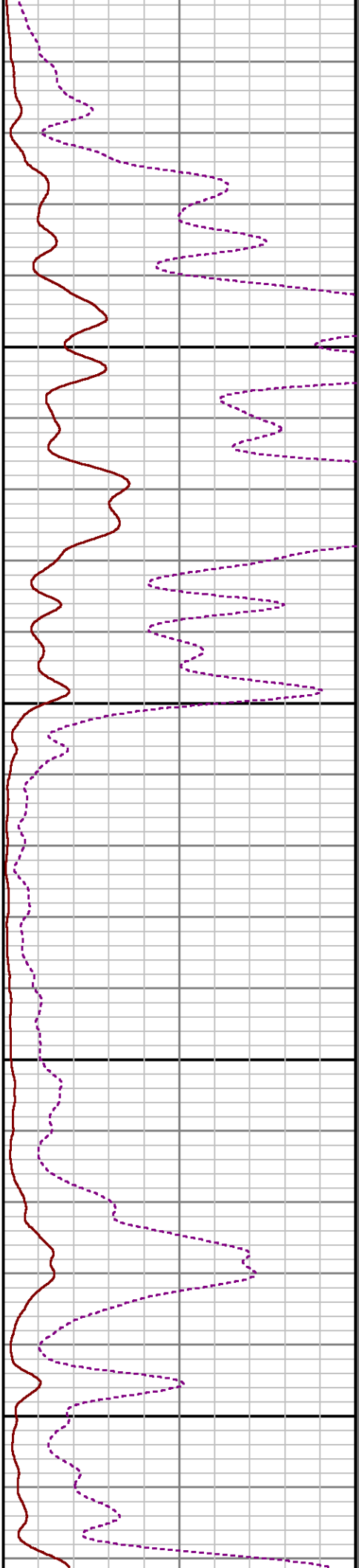
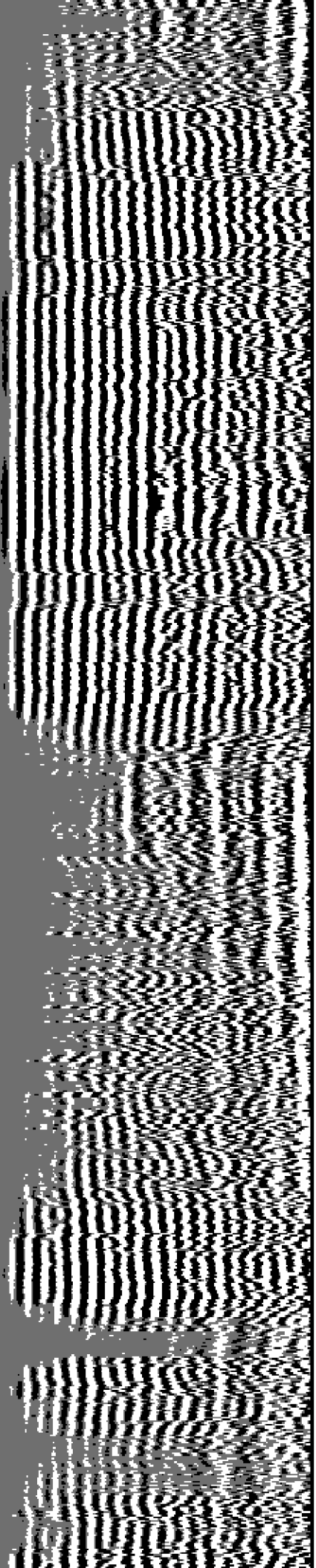


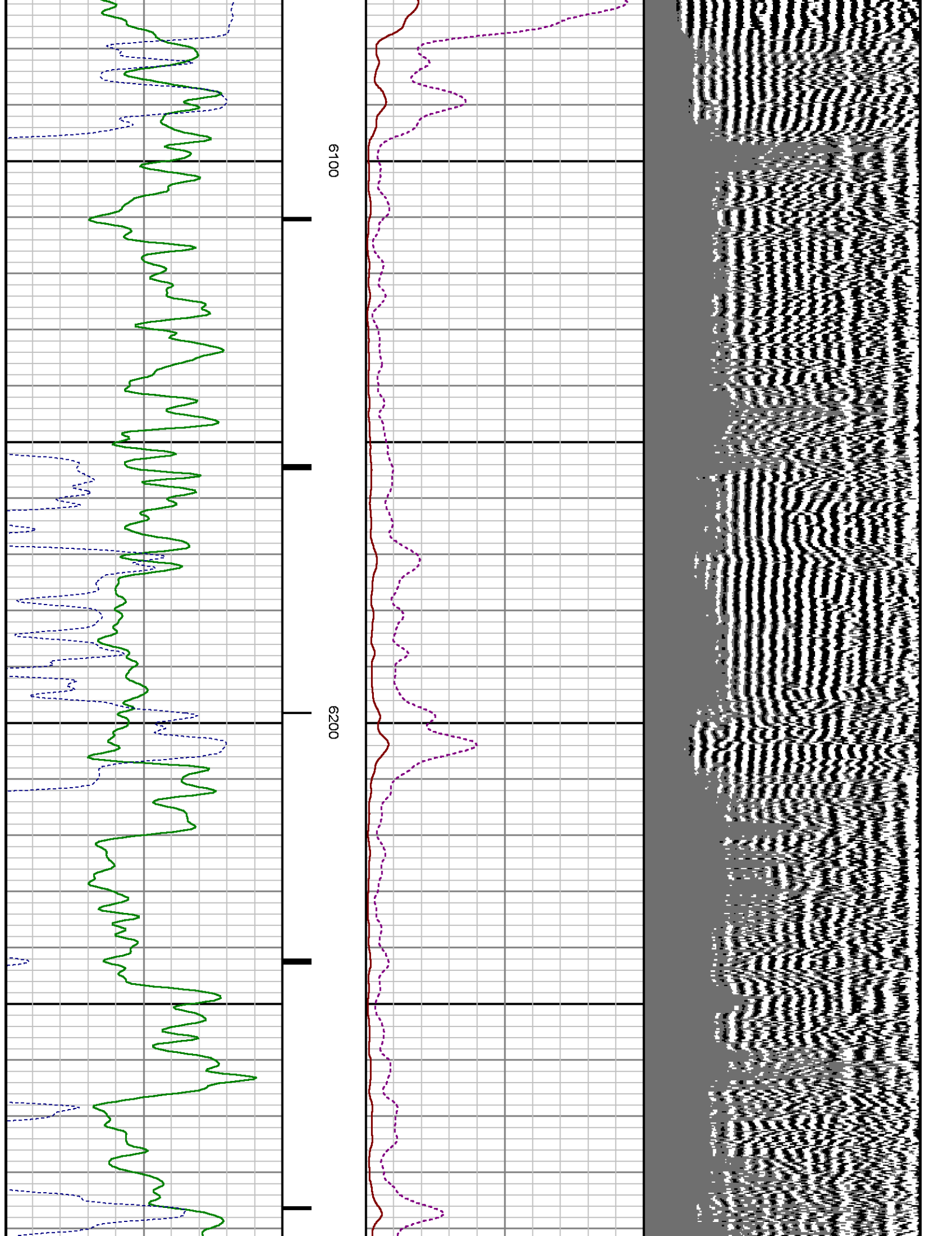


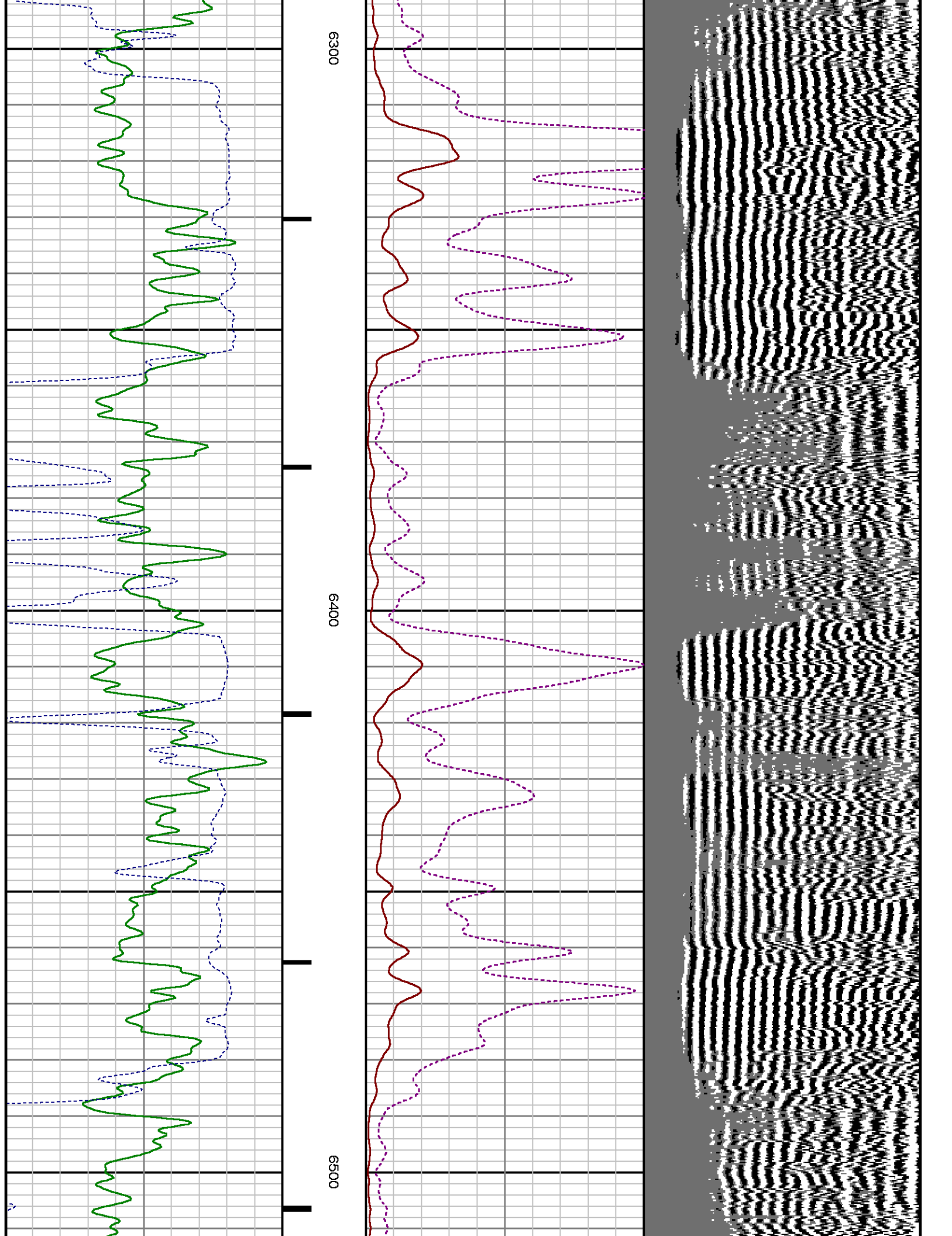


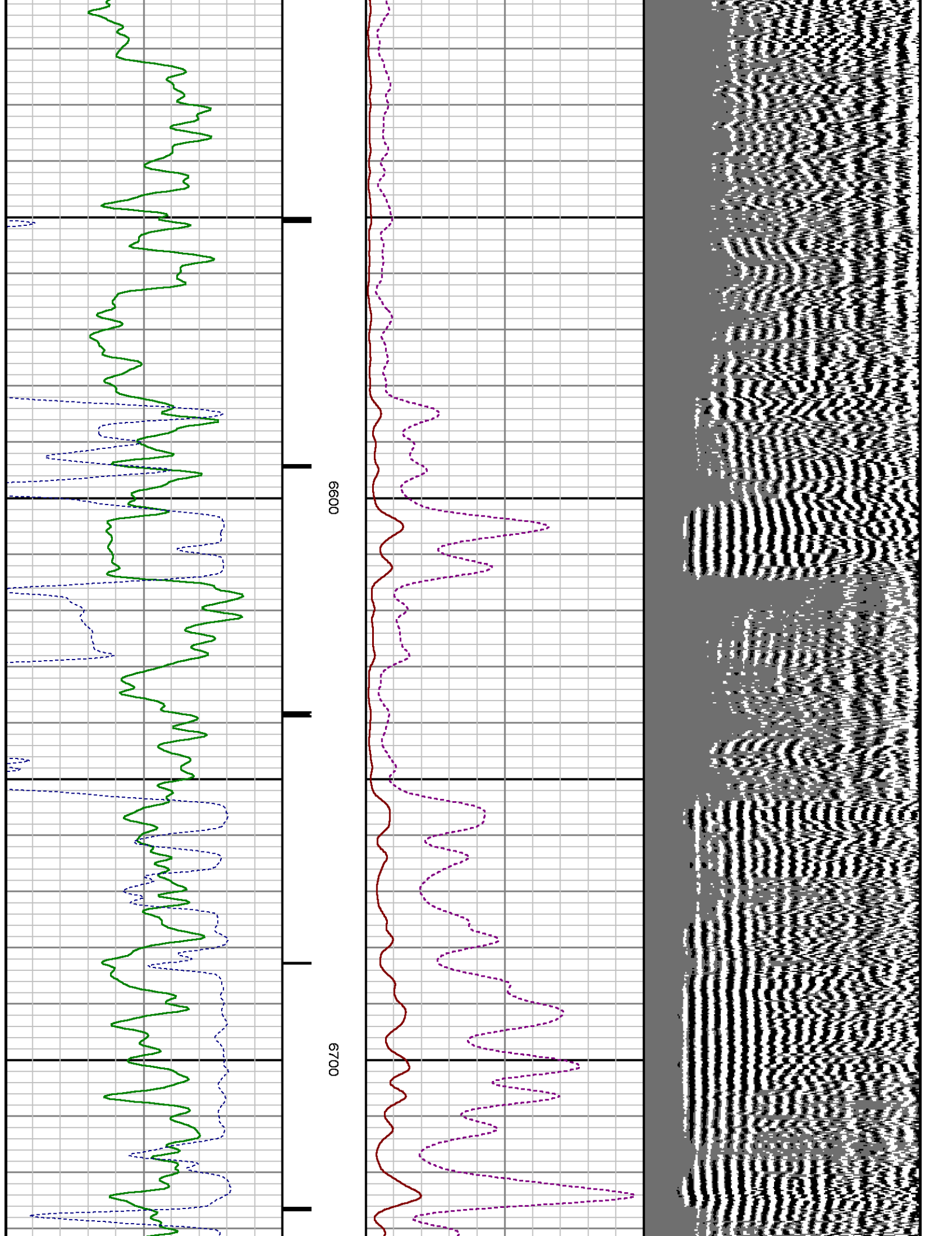


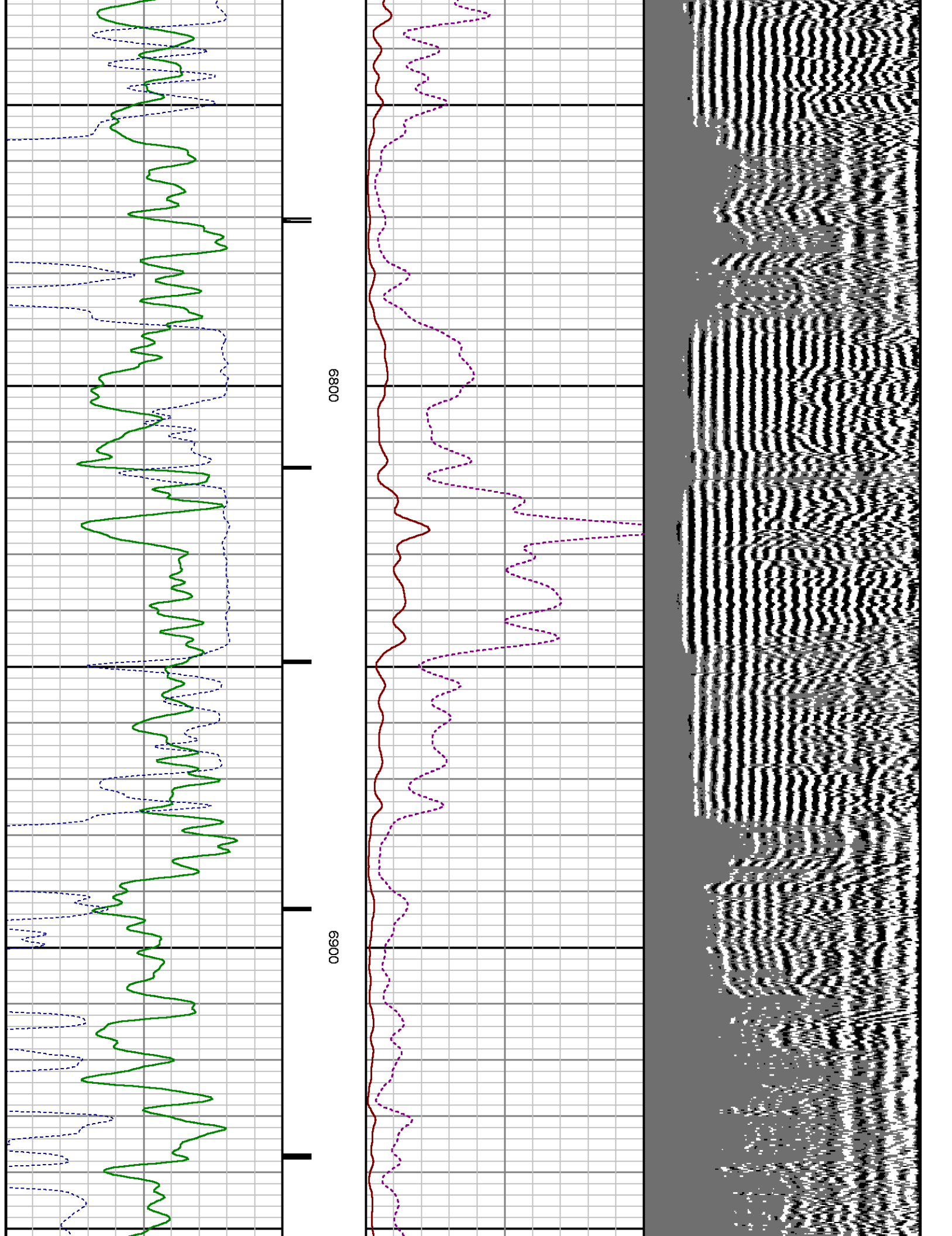


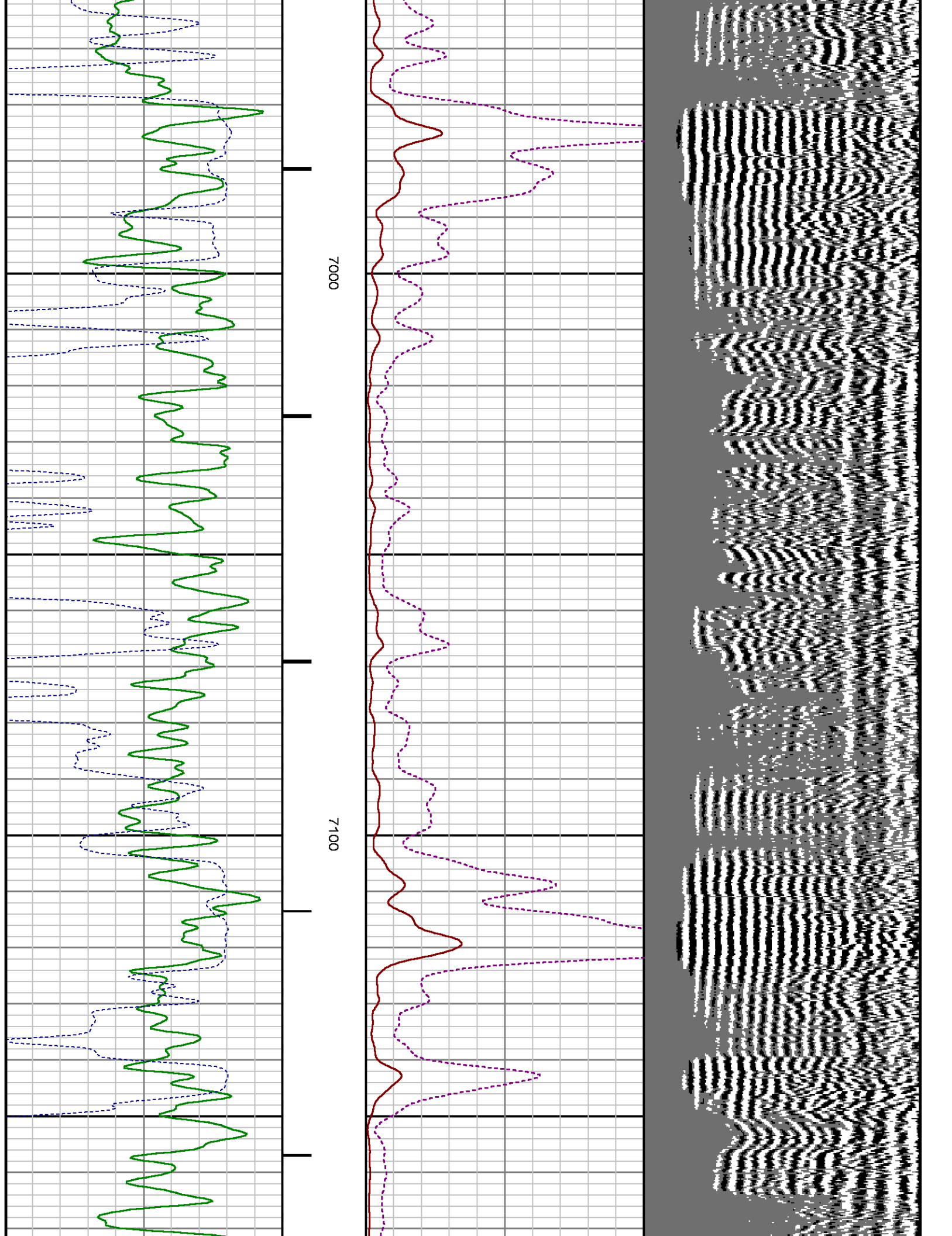


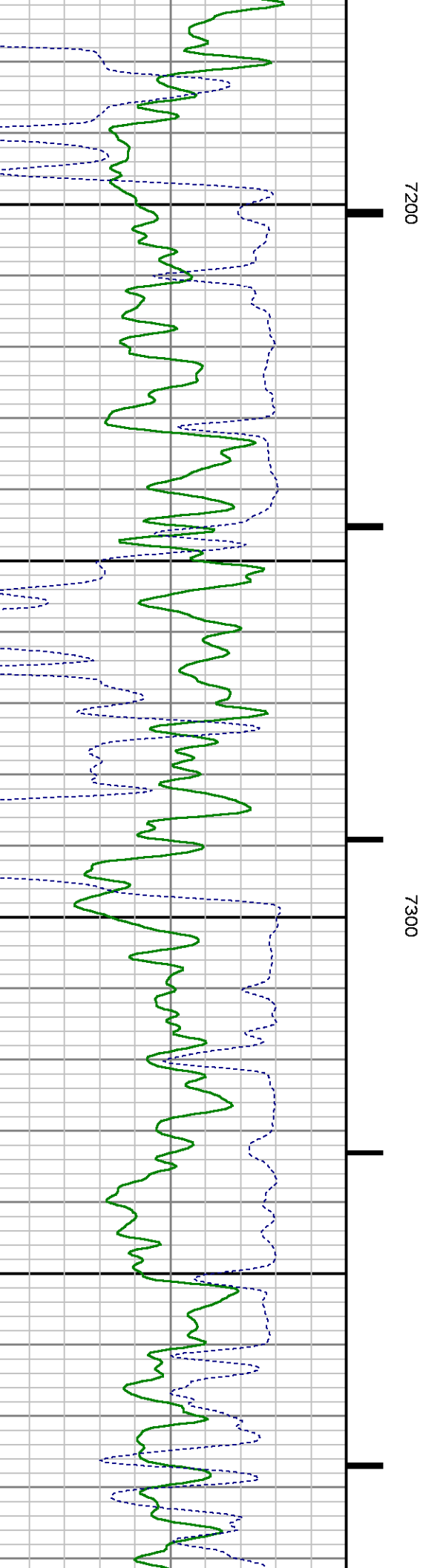
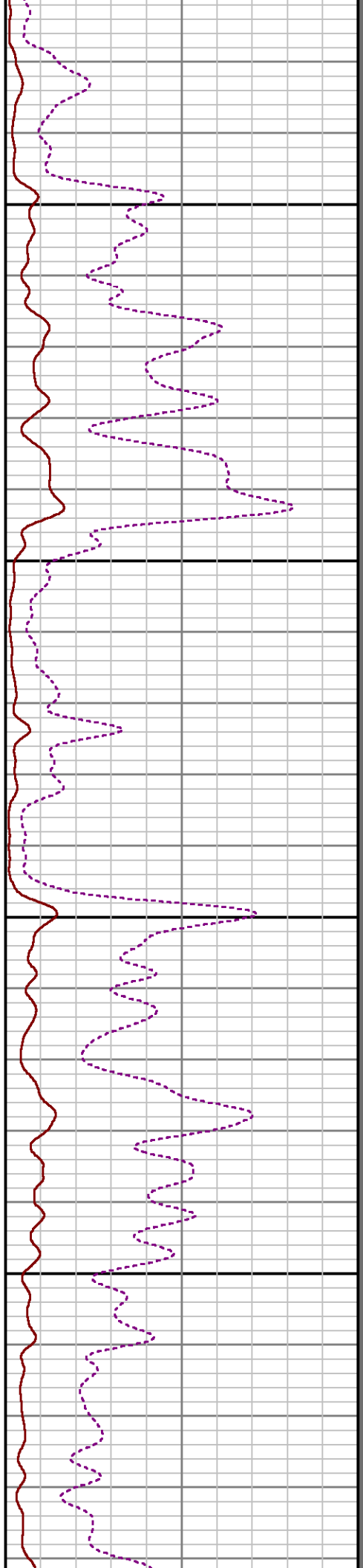
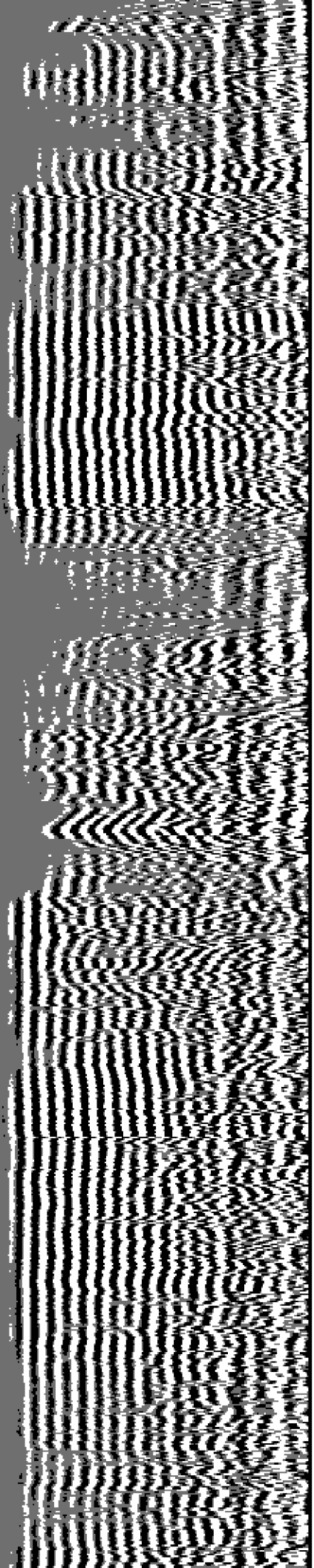


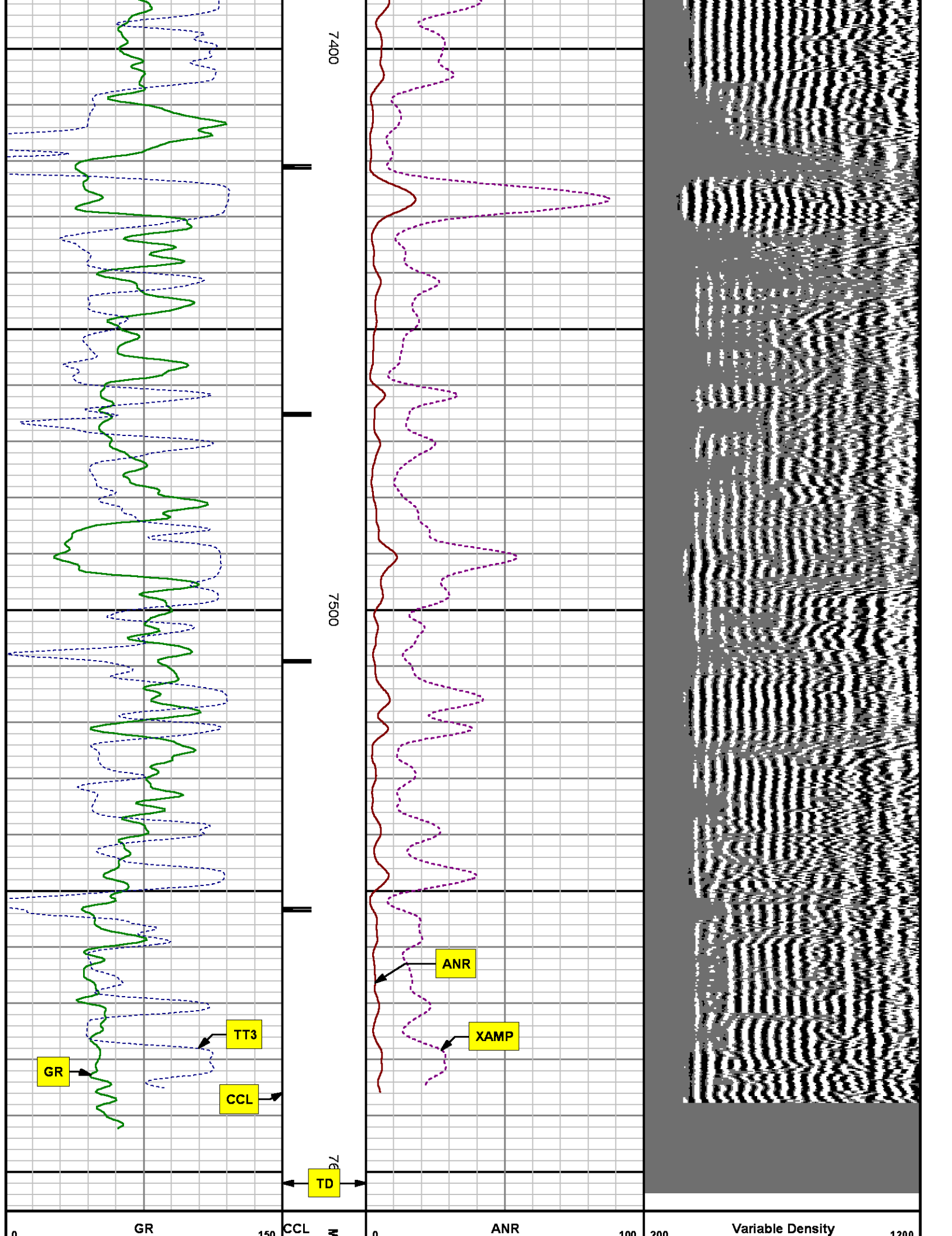


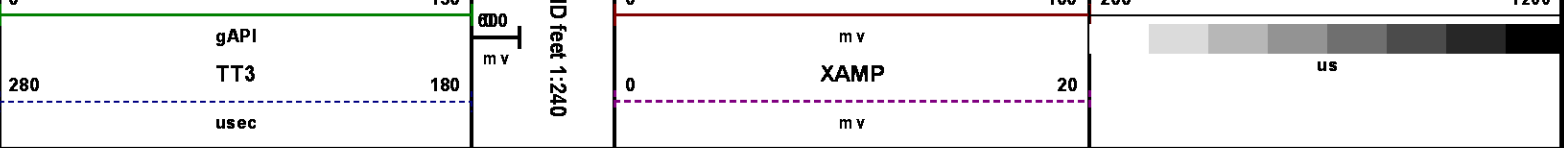












SECONDARY PRESENTATION
O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	34.691	7602.750
RAL	Amp Gate Start Near	195.000	u sec	34.691	7602.750
RAL	Amp Gate Start Radial	195.000	u sec	34.691	7602.750
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RAL	FB Thresh Radial	4.000	mv	34.691	7602.750
RAL	Fluid Travel Time	200.000	u sec/ft	34.691	7603.473

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					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

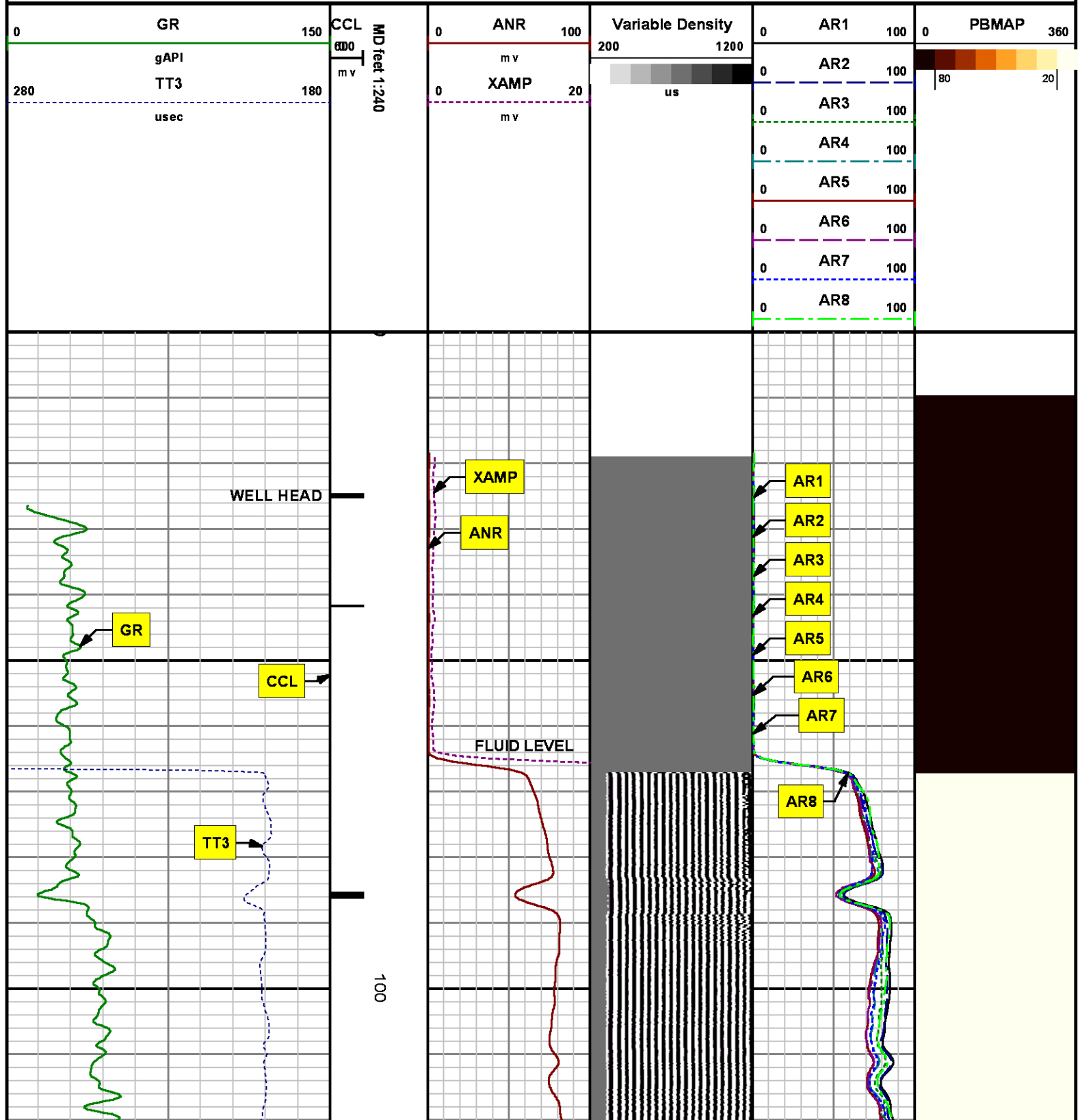
Well : WPX ENERGY PA 414-2

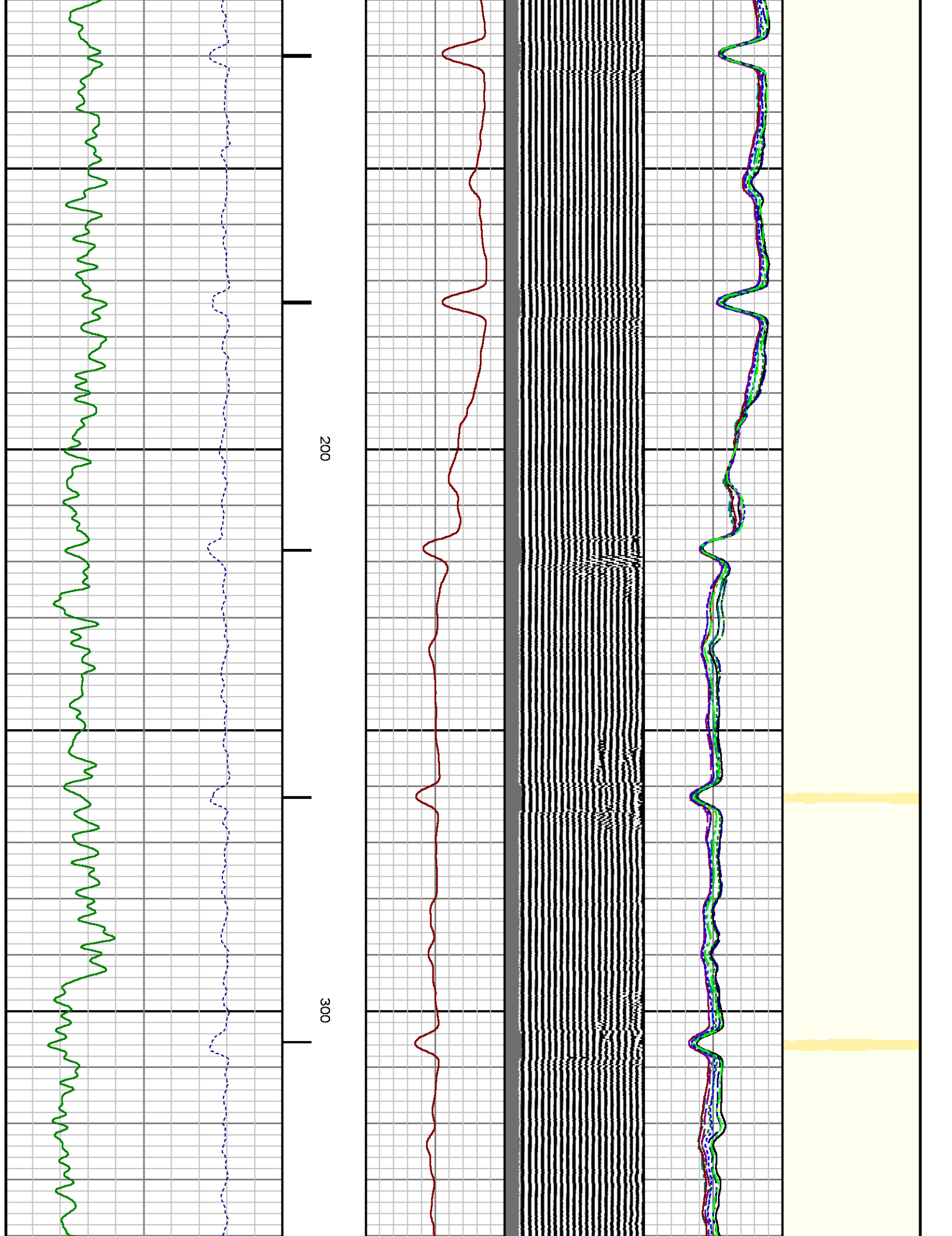
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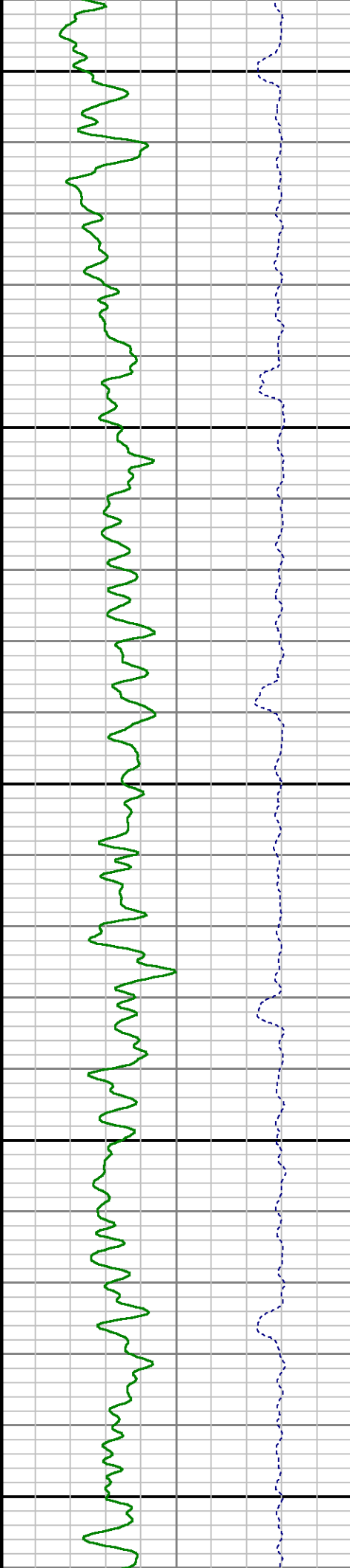
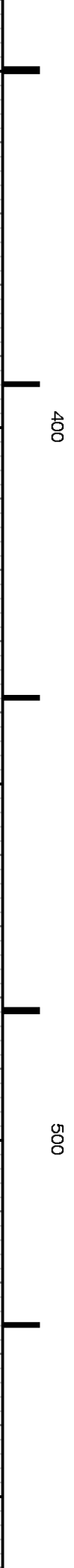
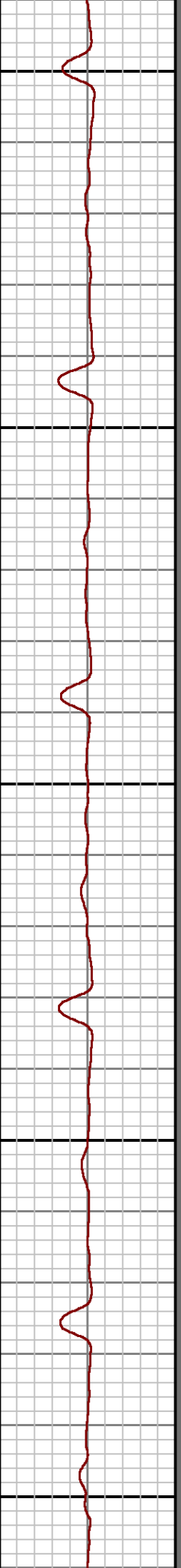
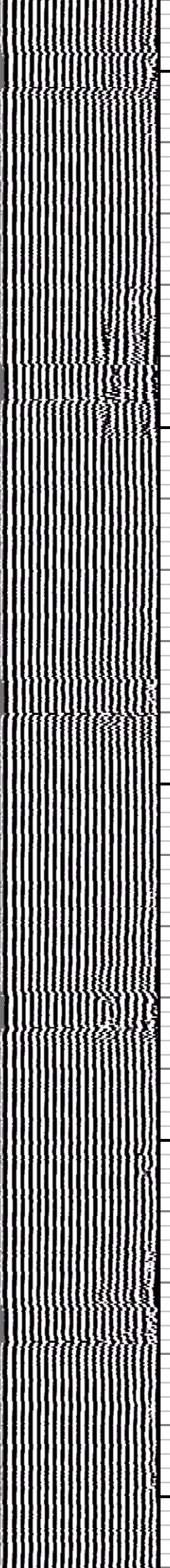
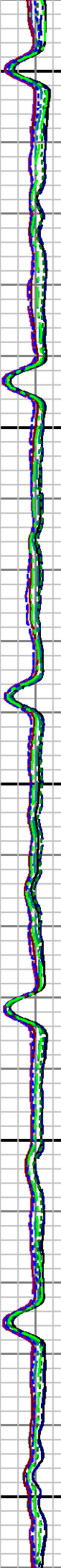
Mode : PlotMgr 5.4.504

Interval : 0.00 - 7607.00 feet UP

Created : 5/12/2014 11:16:38 AM

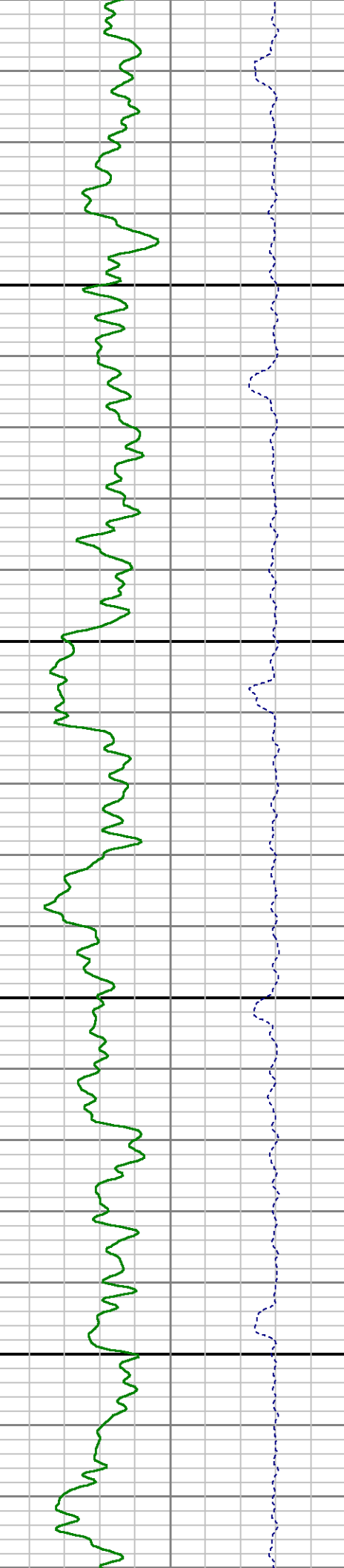
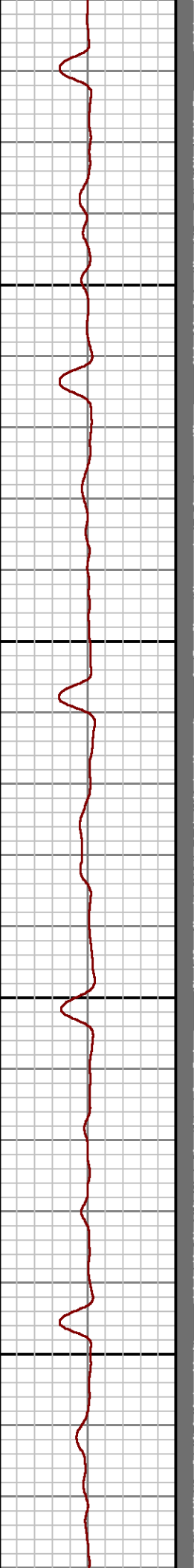
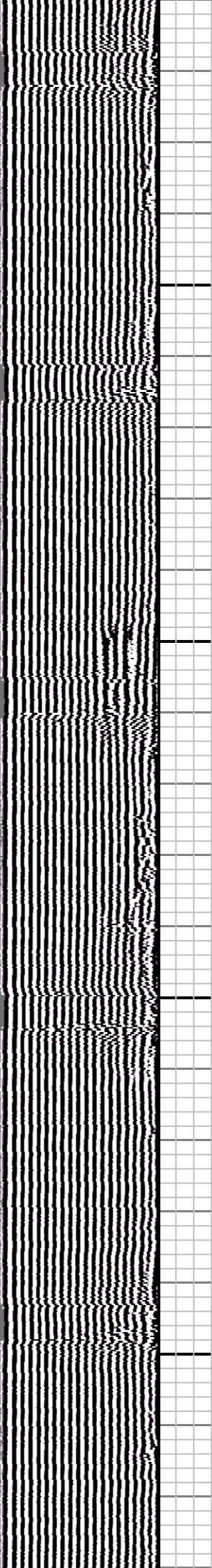
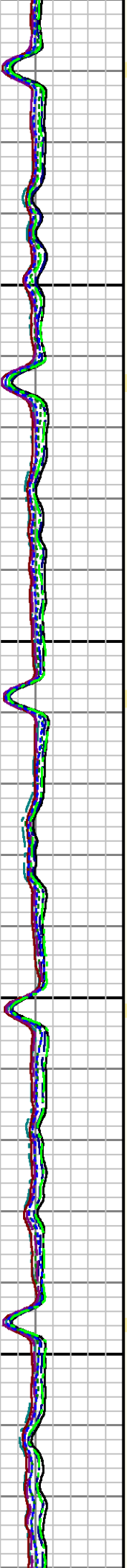






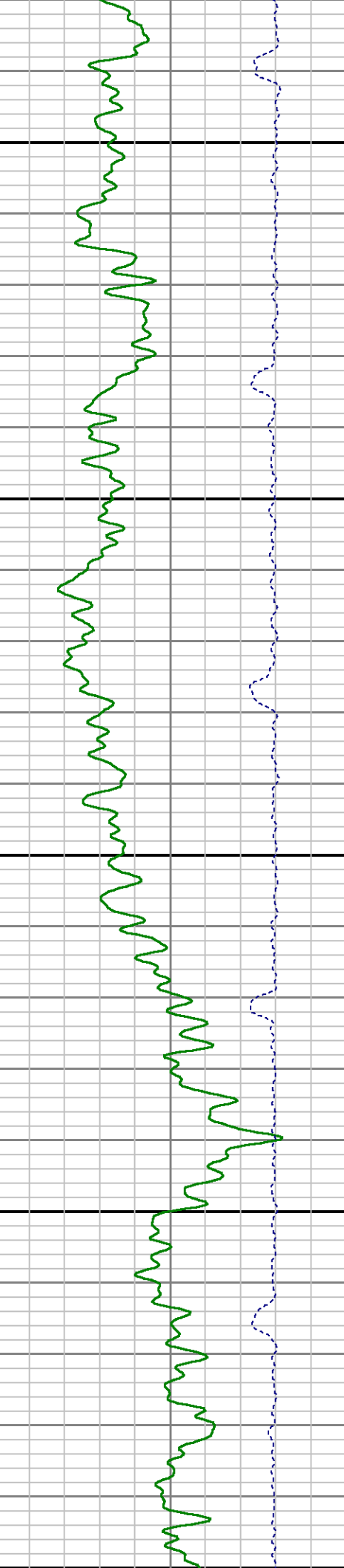
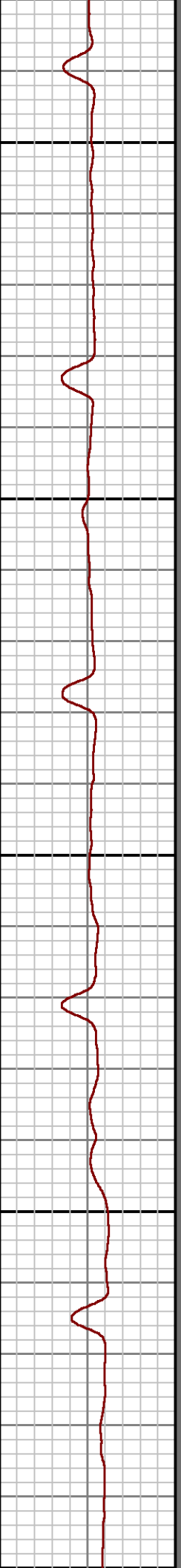
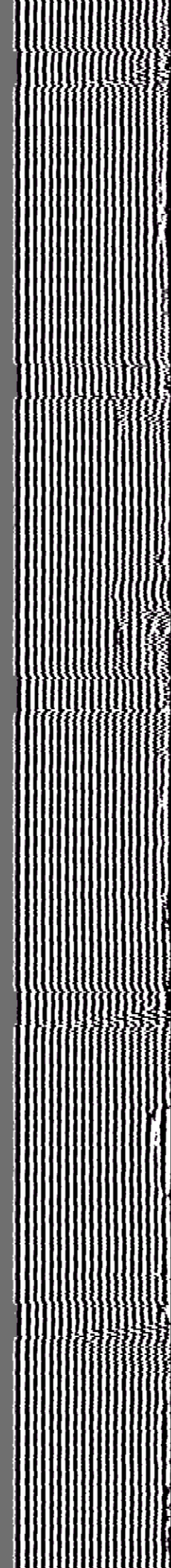
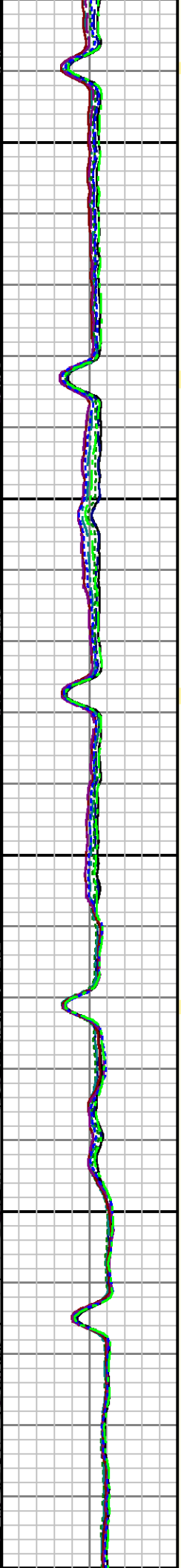
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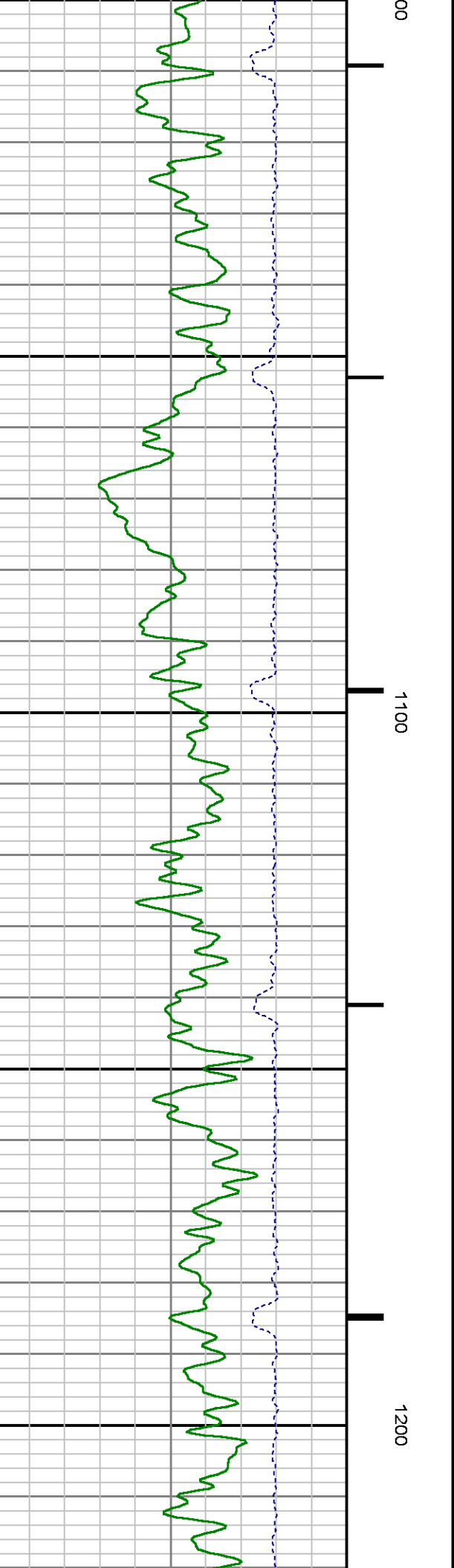
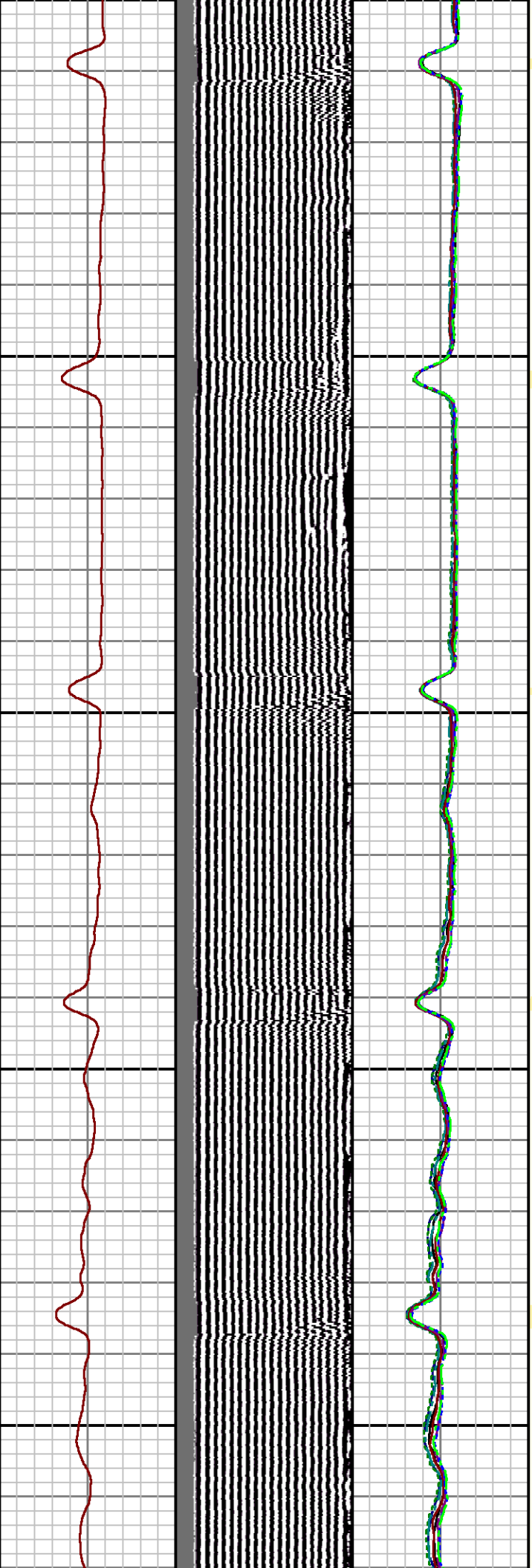
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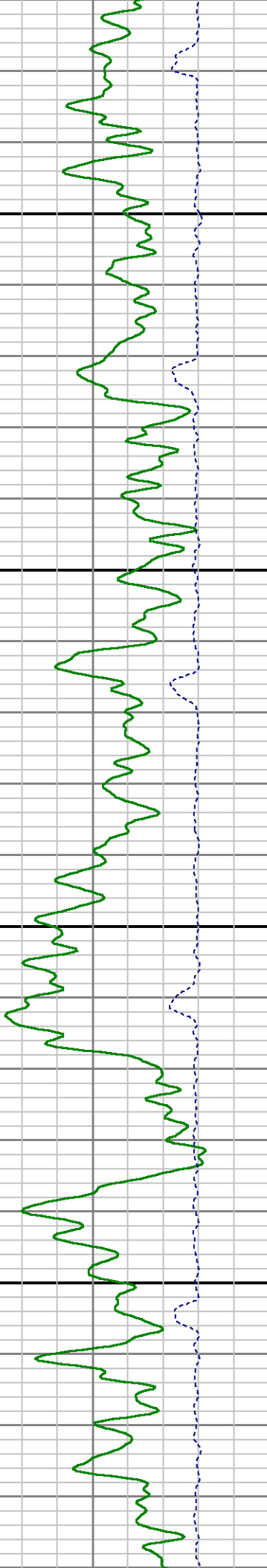
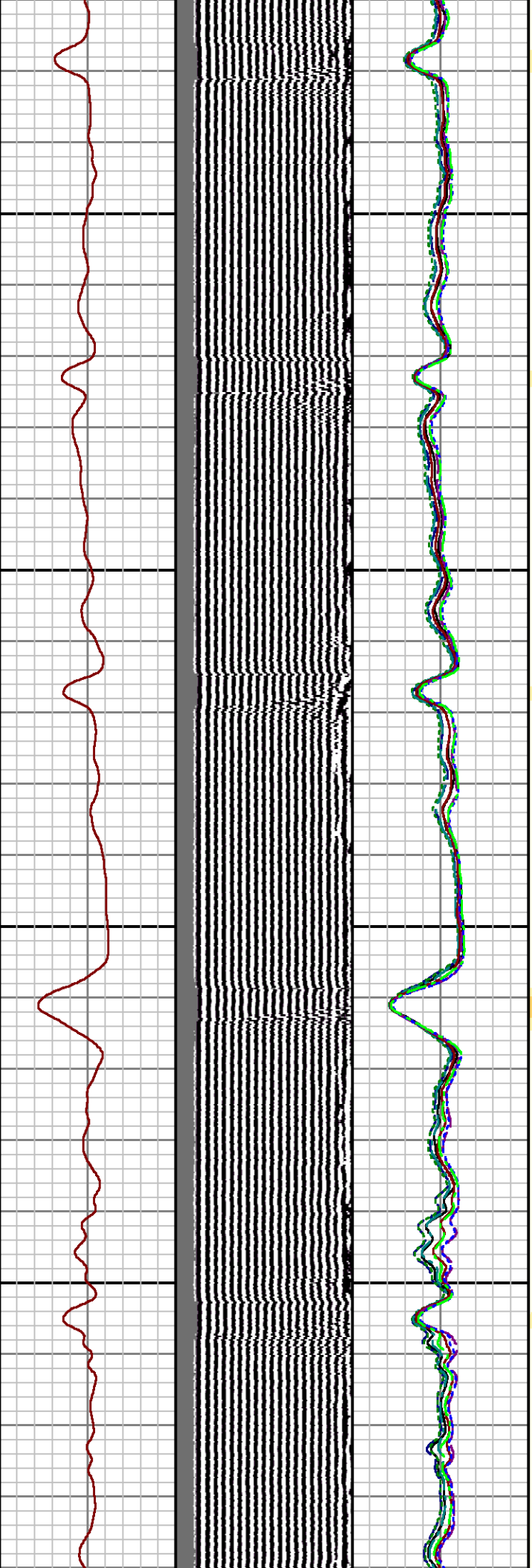


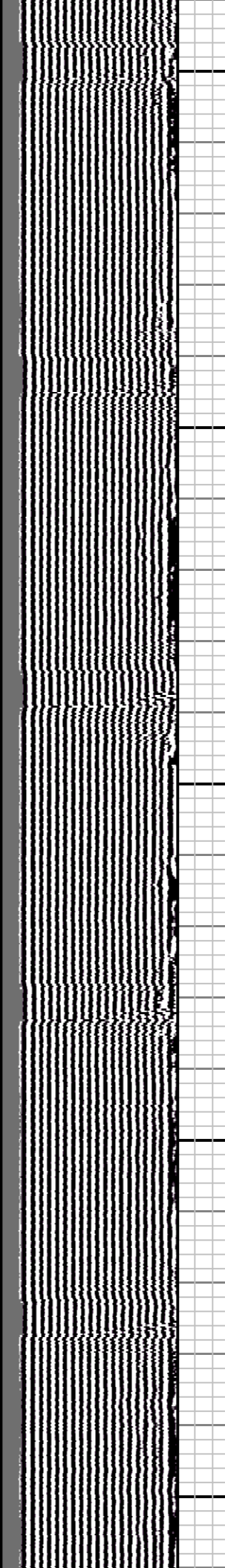
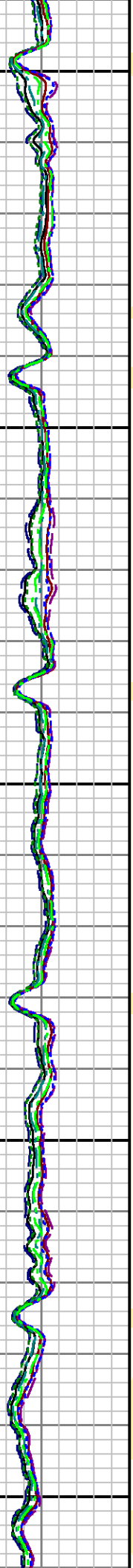
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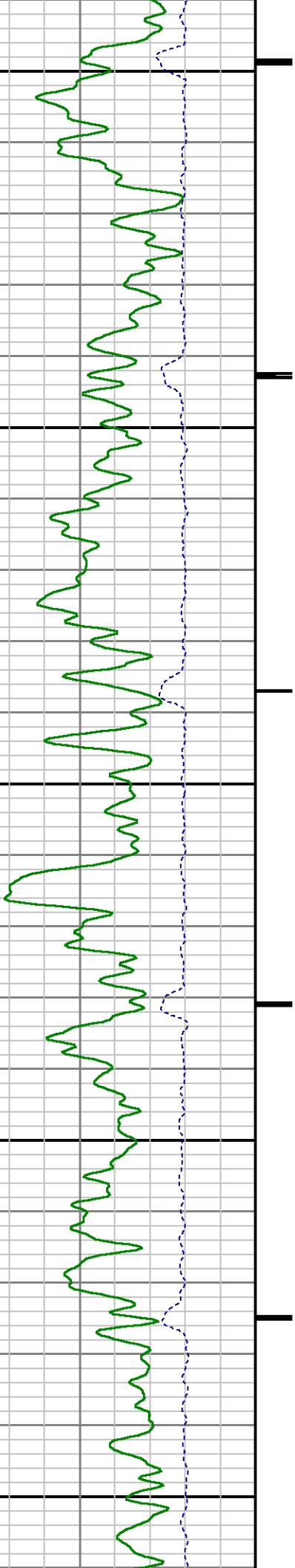


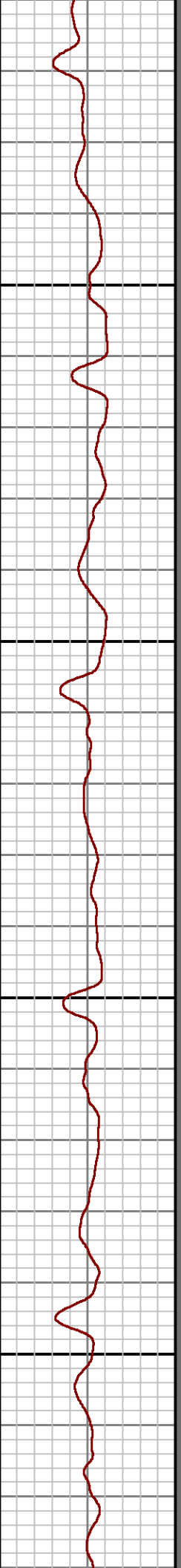
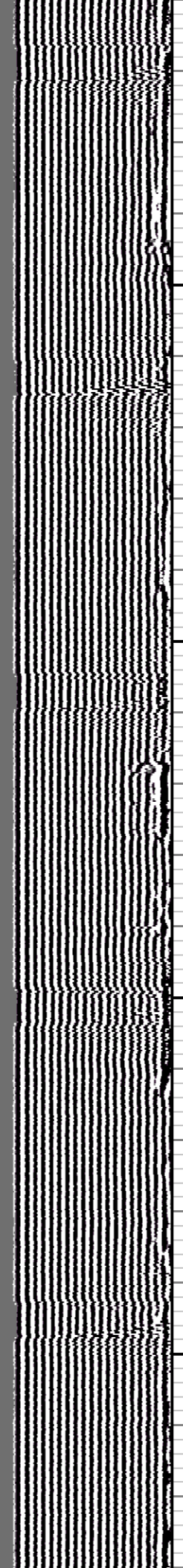
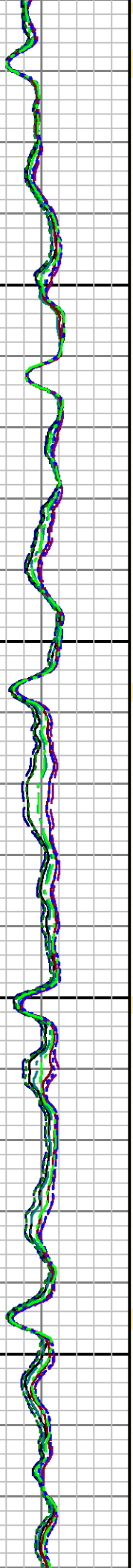
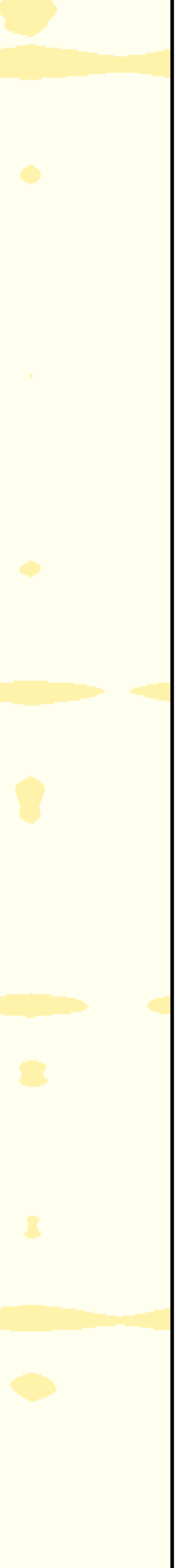




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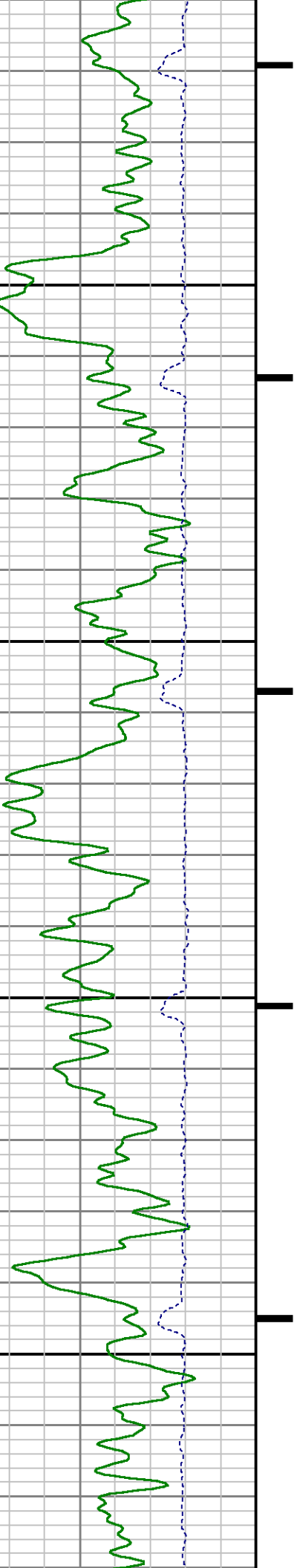
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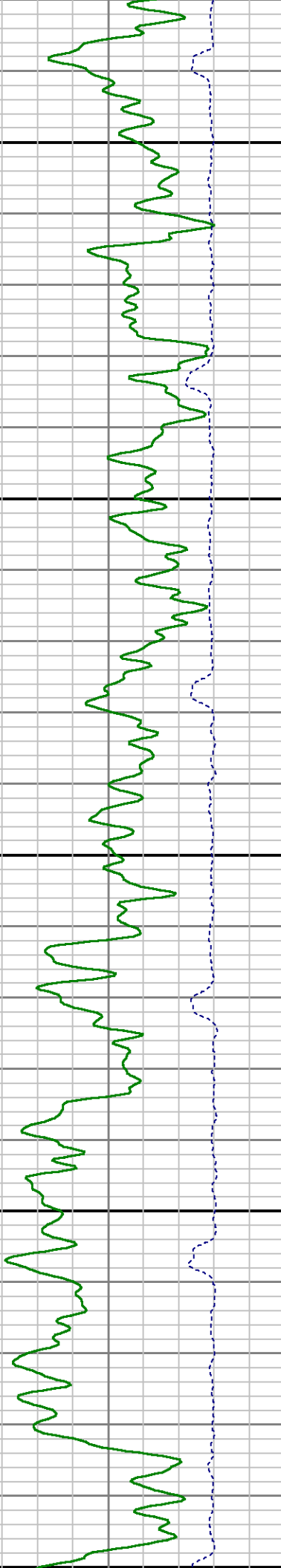
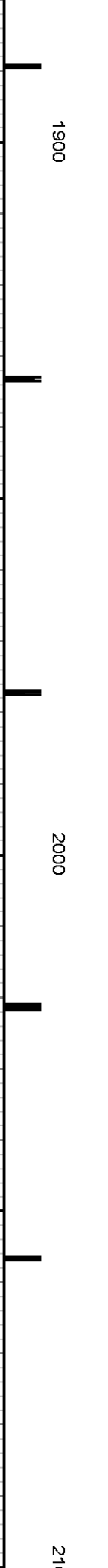
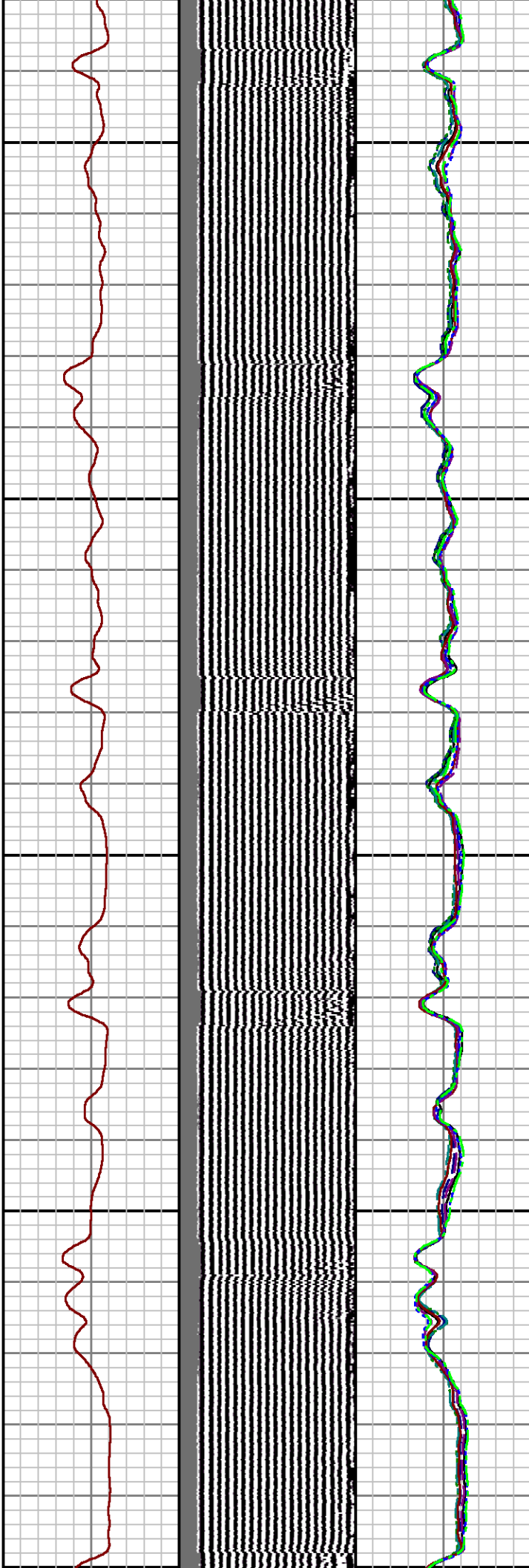
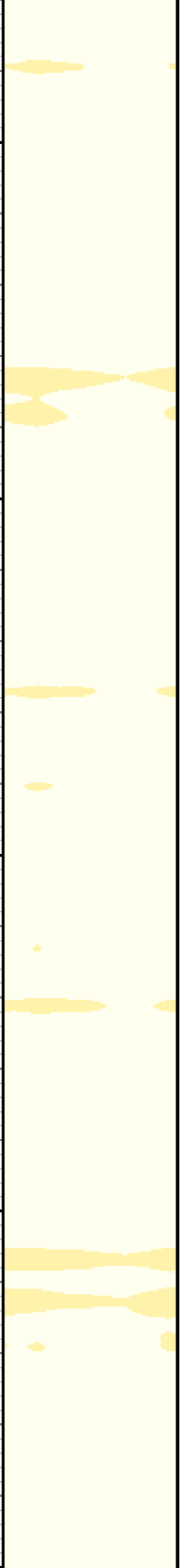




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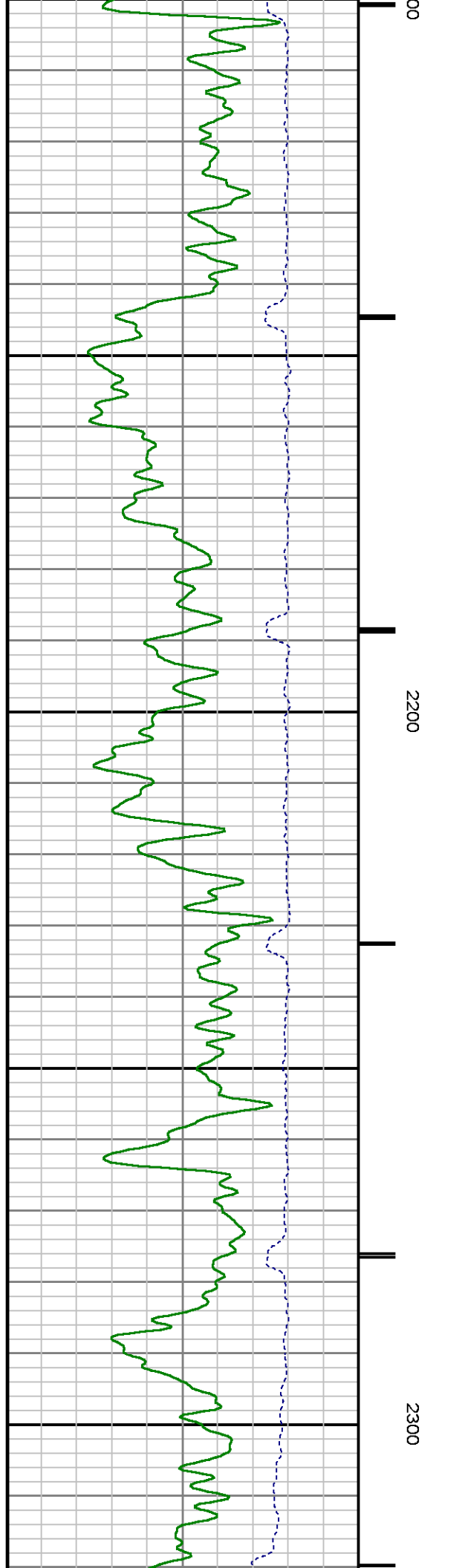
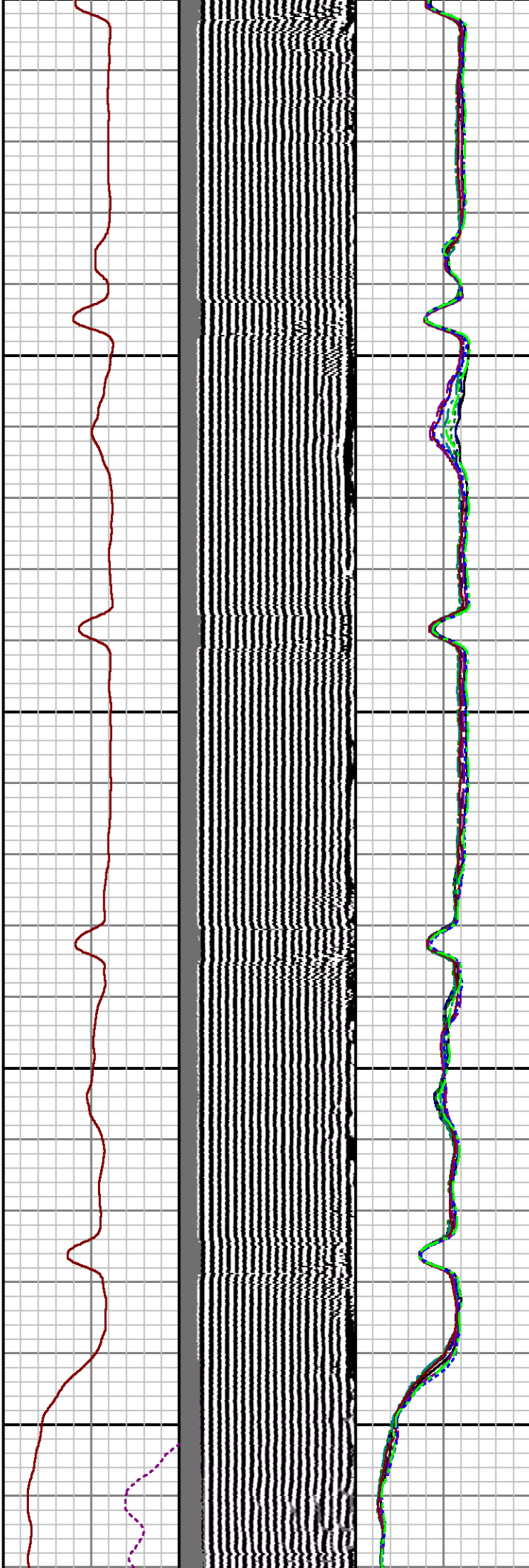
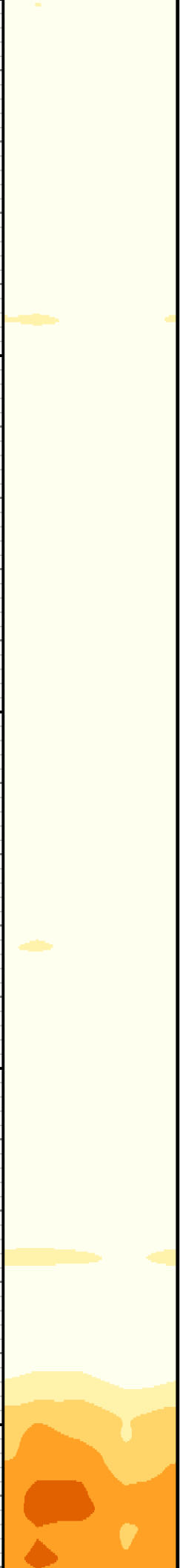


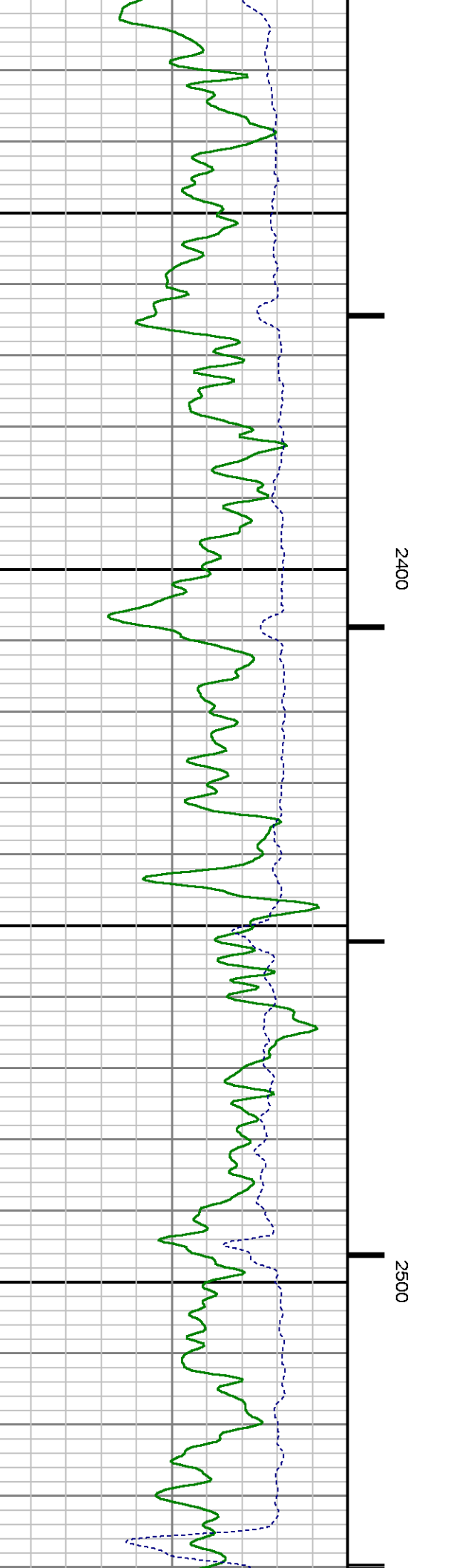
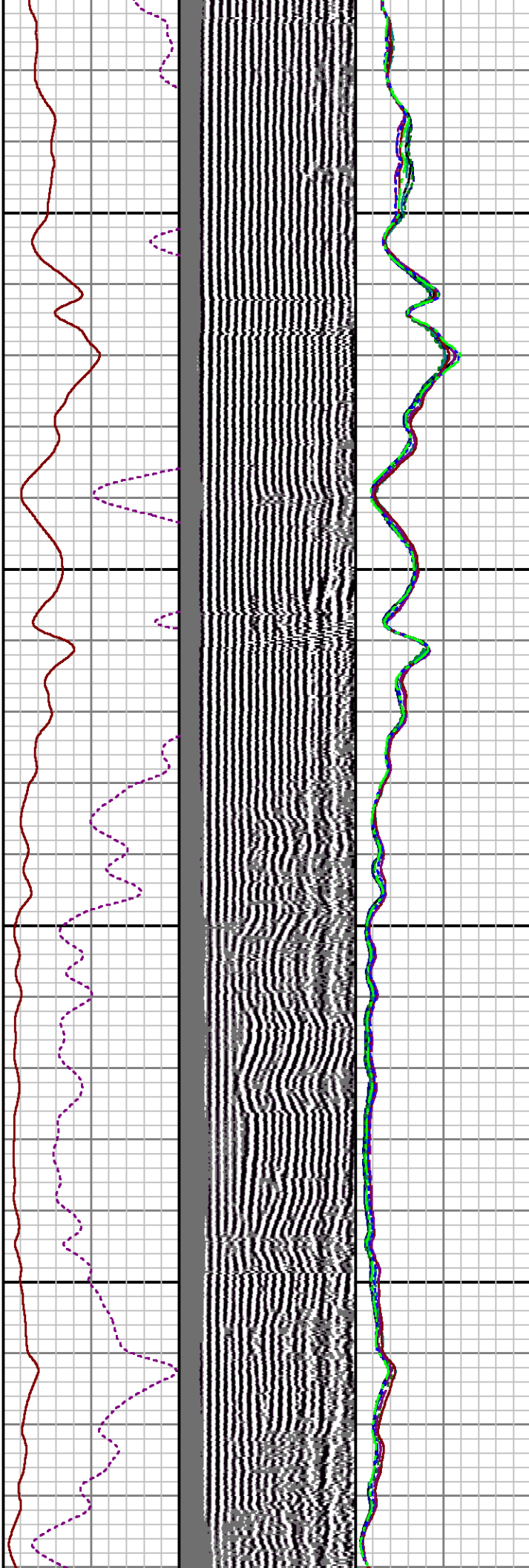
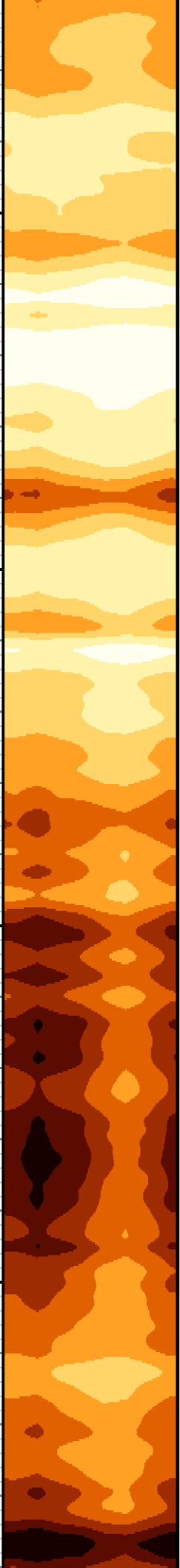


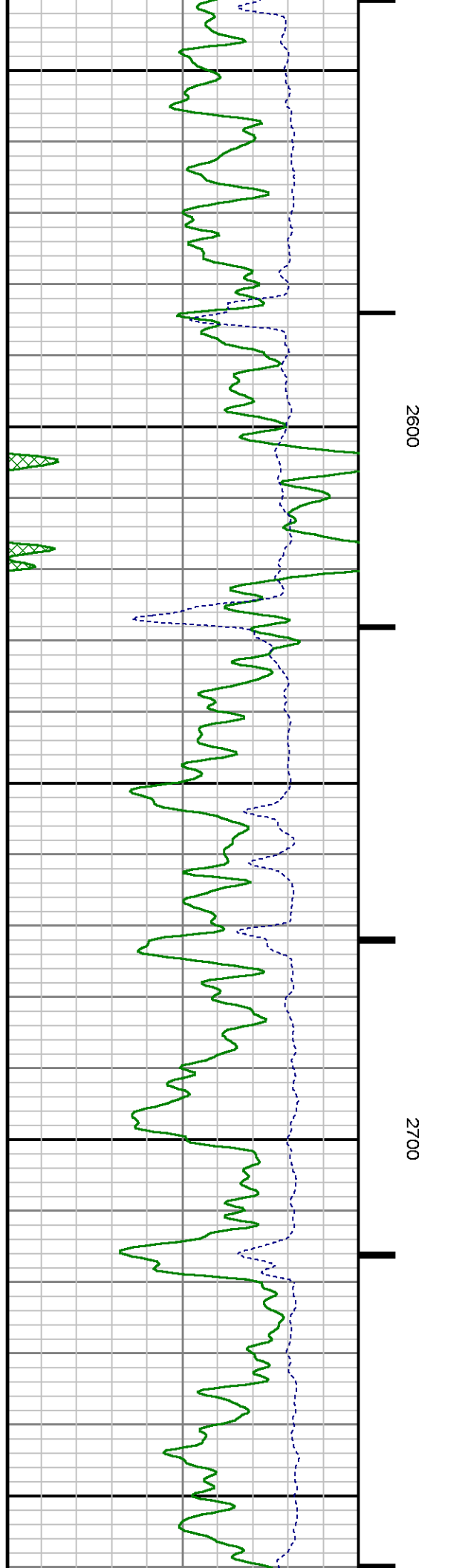
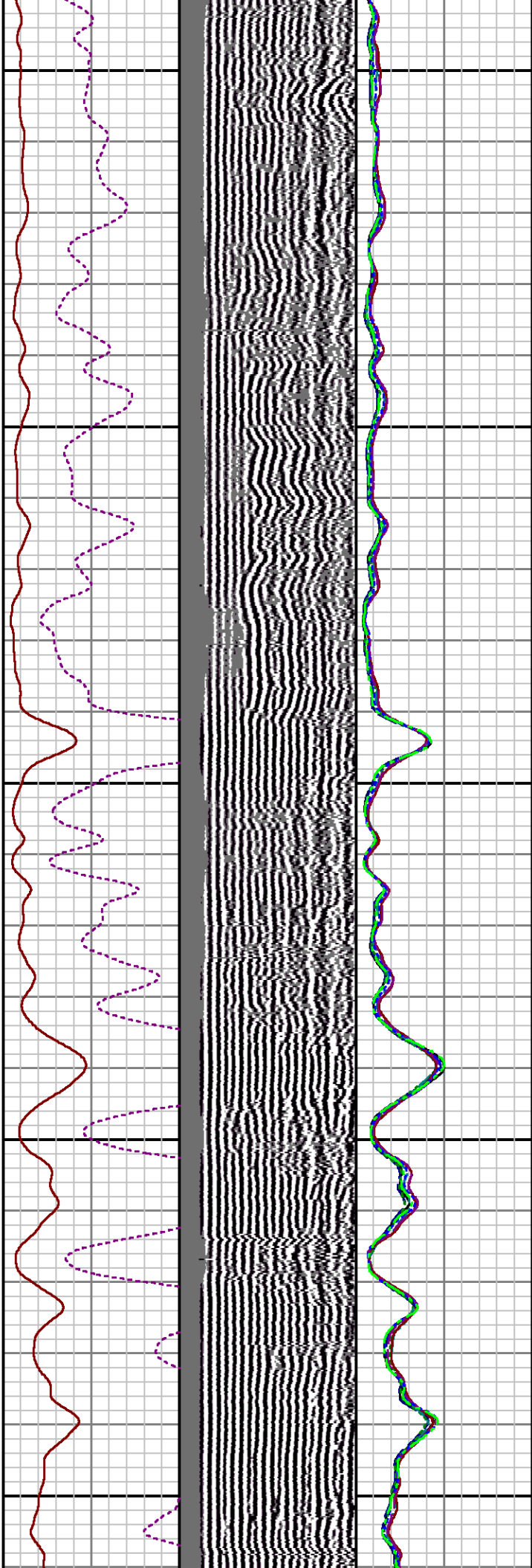
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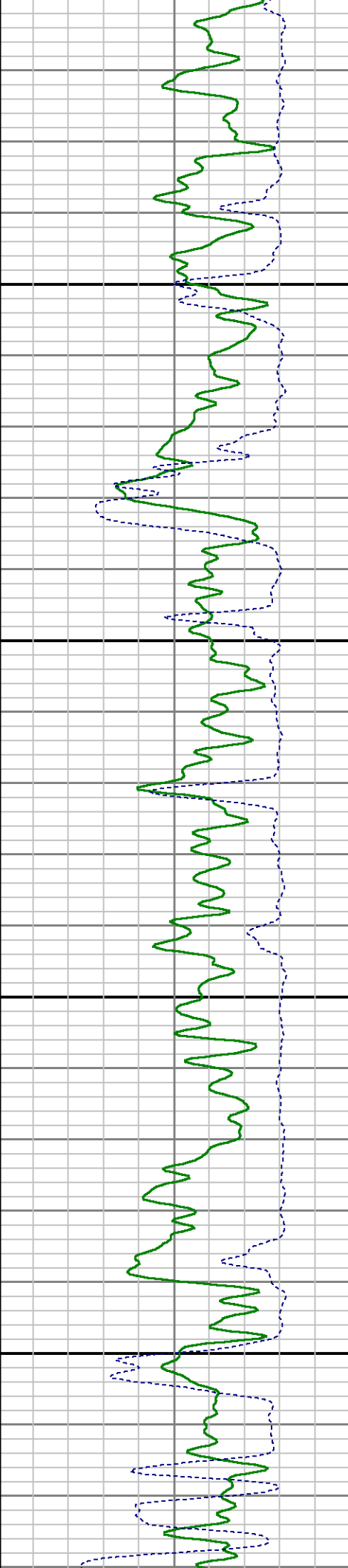
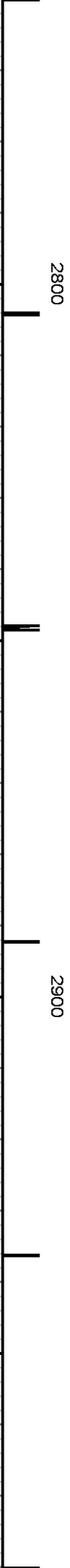
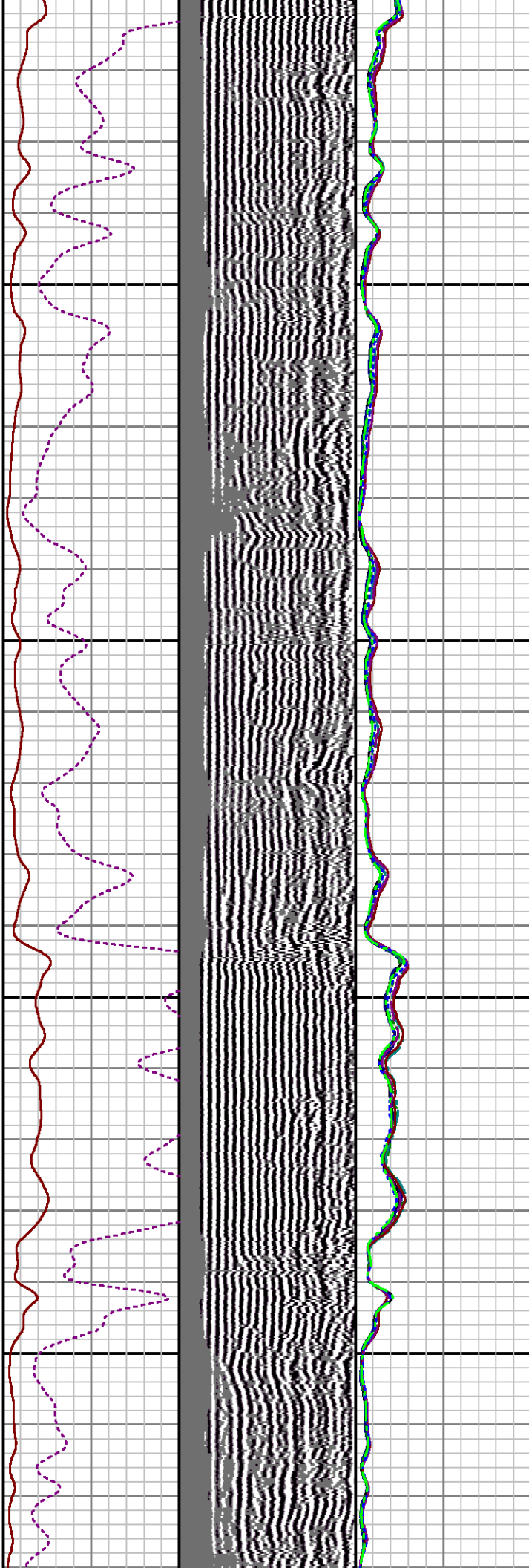
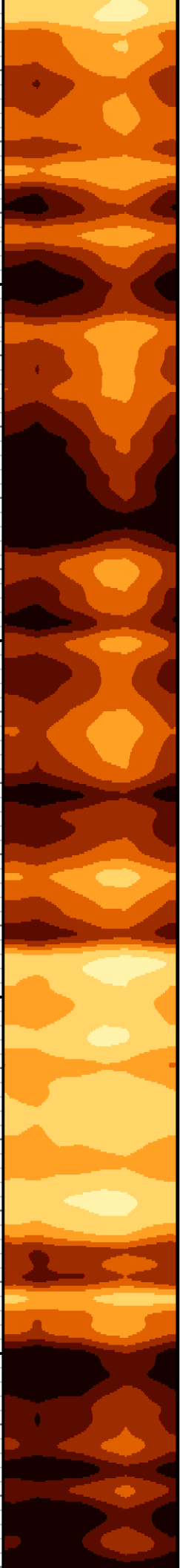
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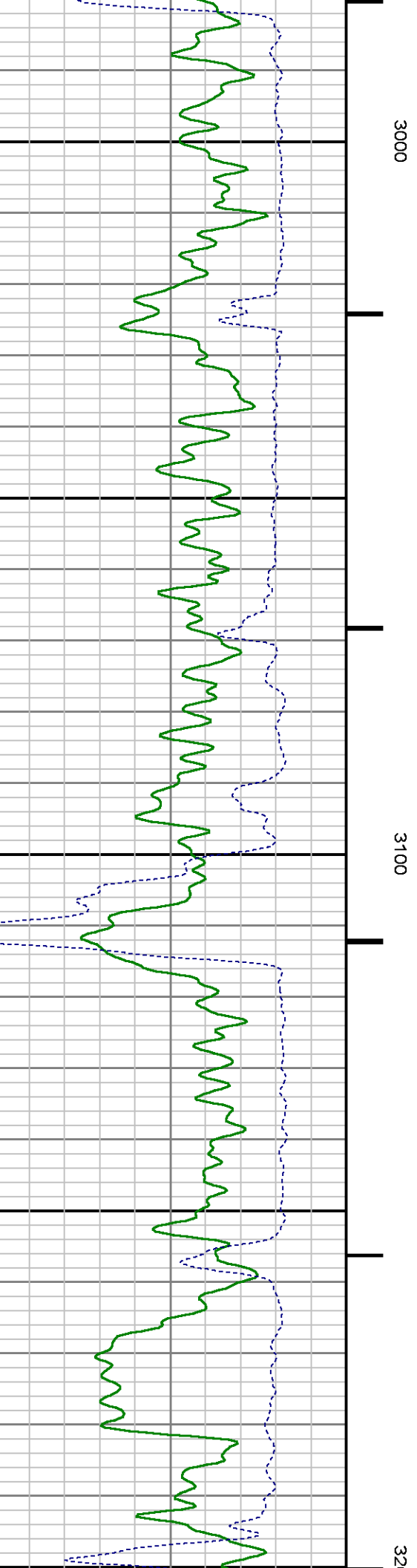
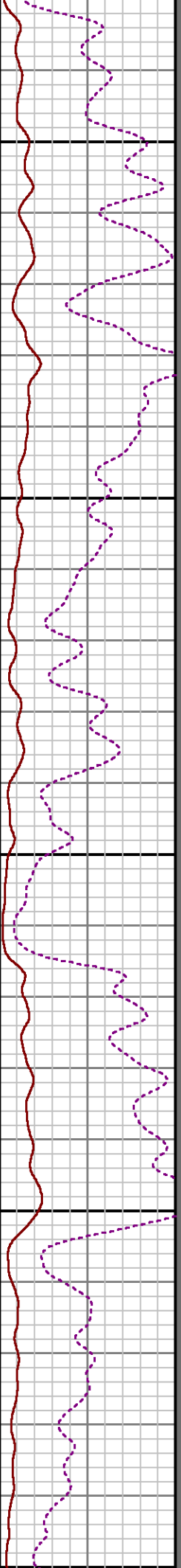
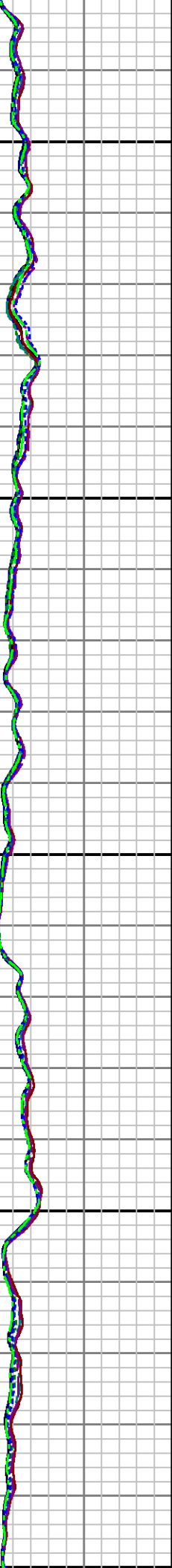
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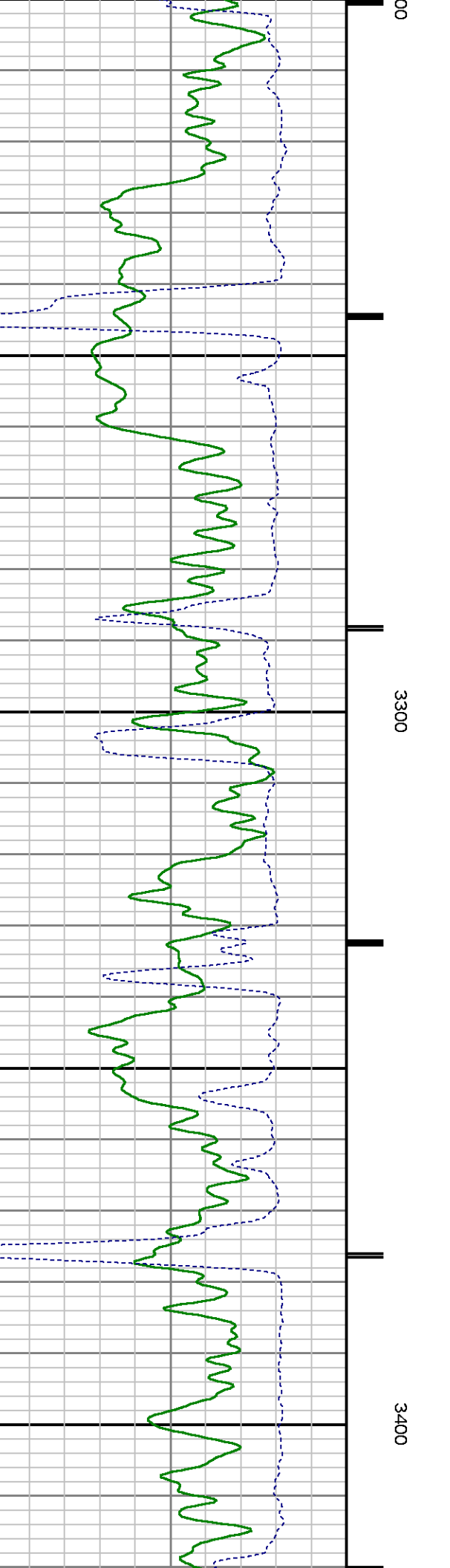
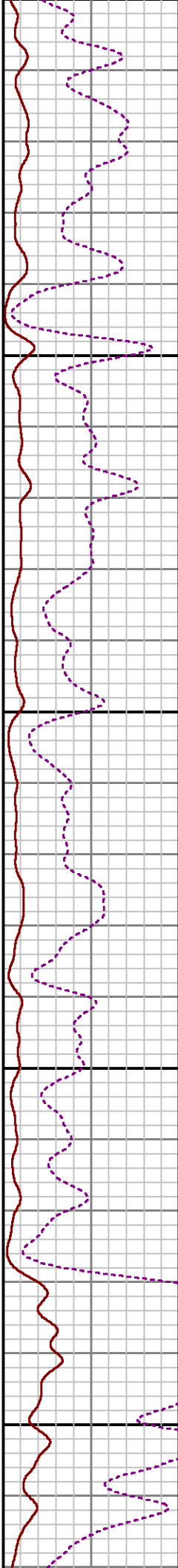
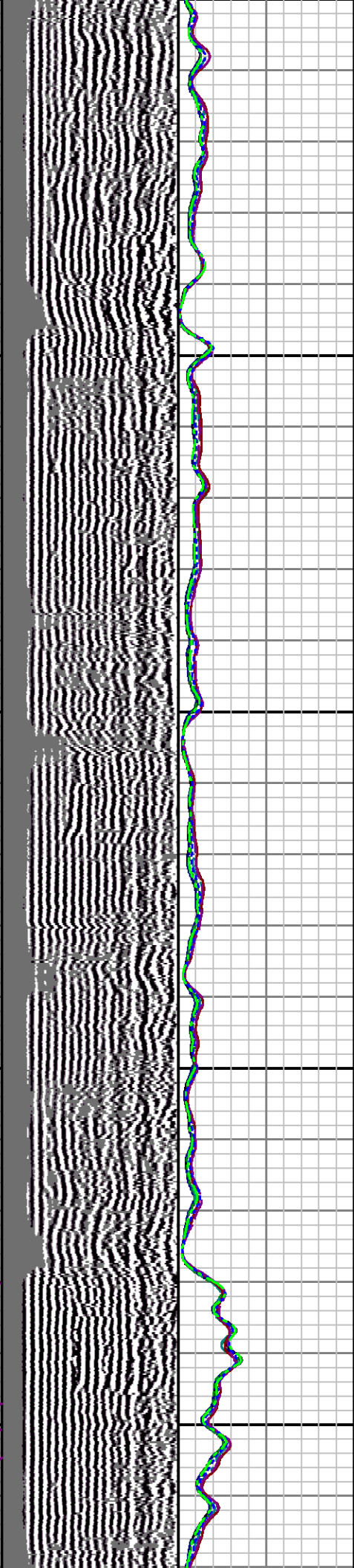
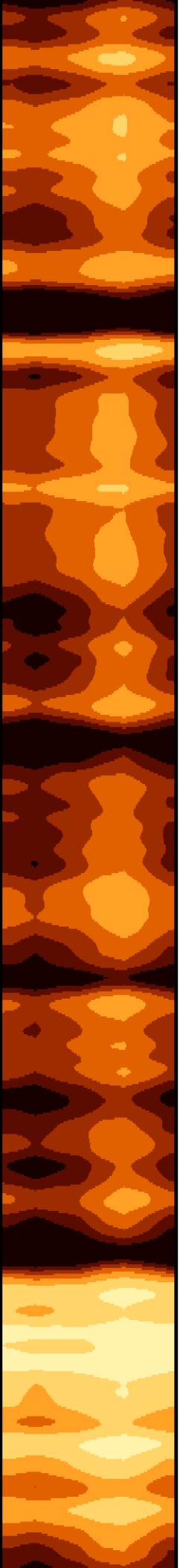


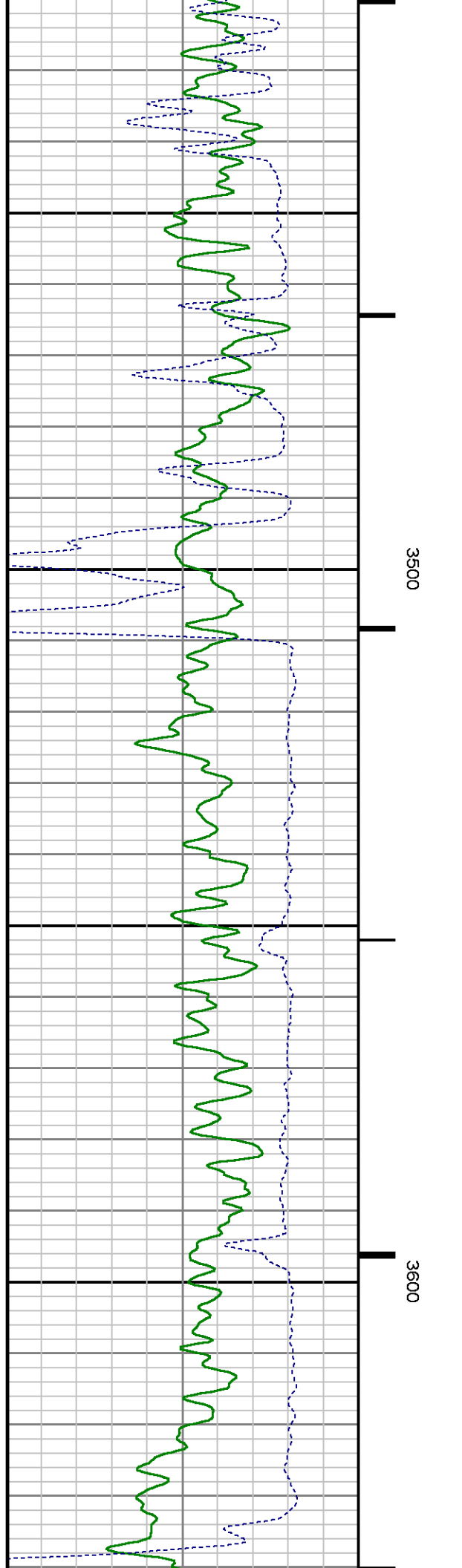
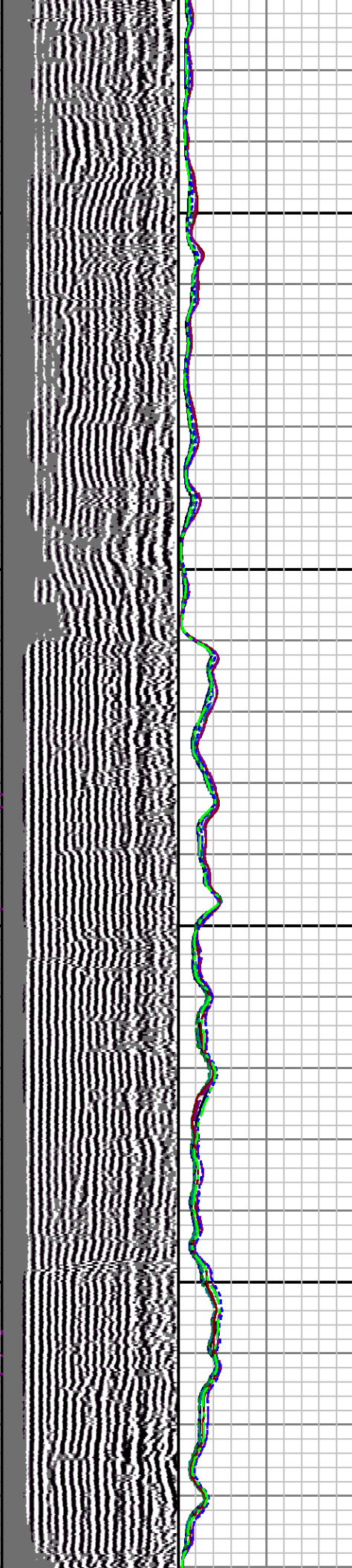
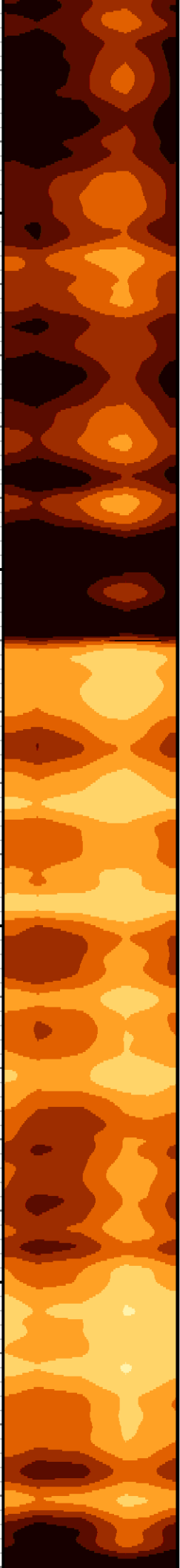


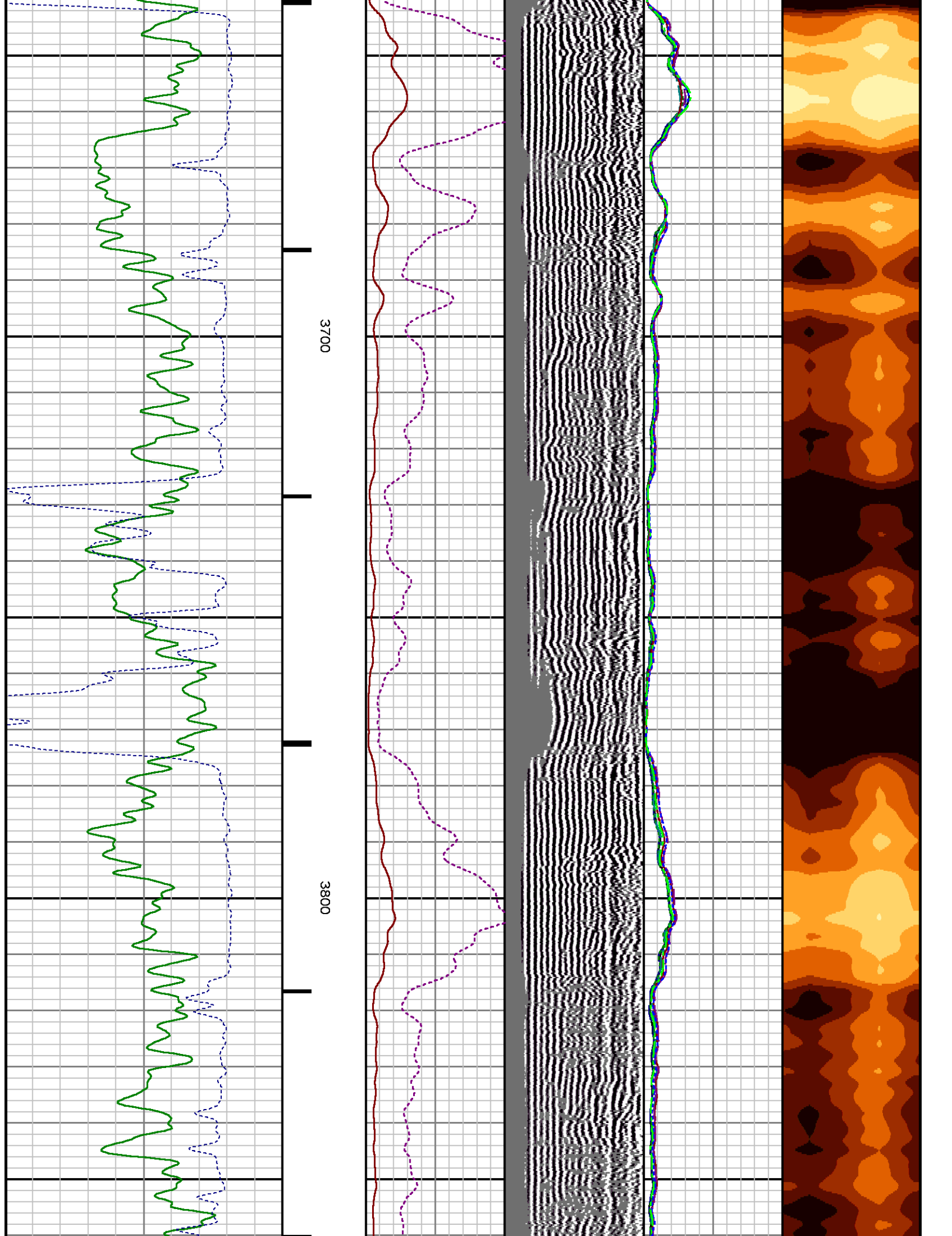


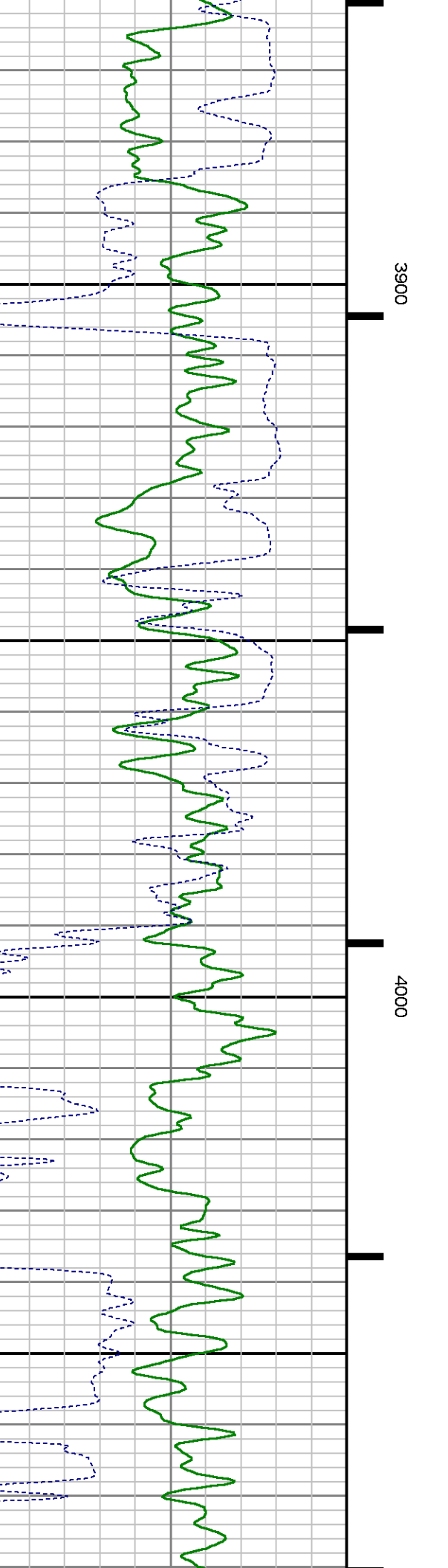
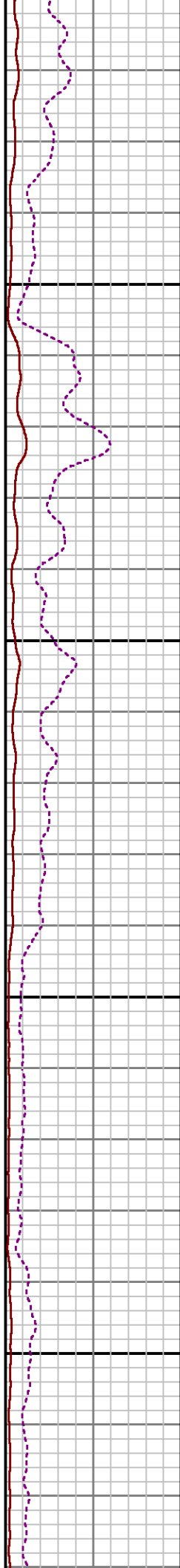
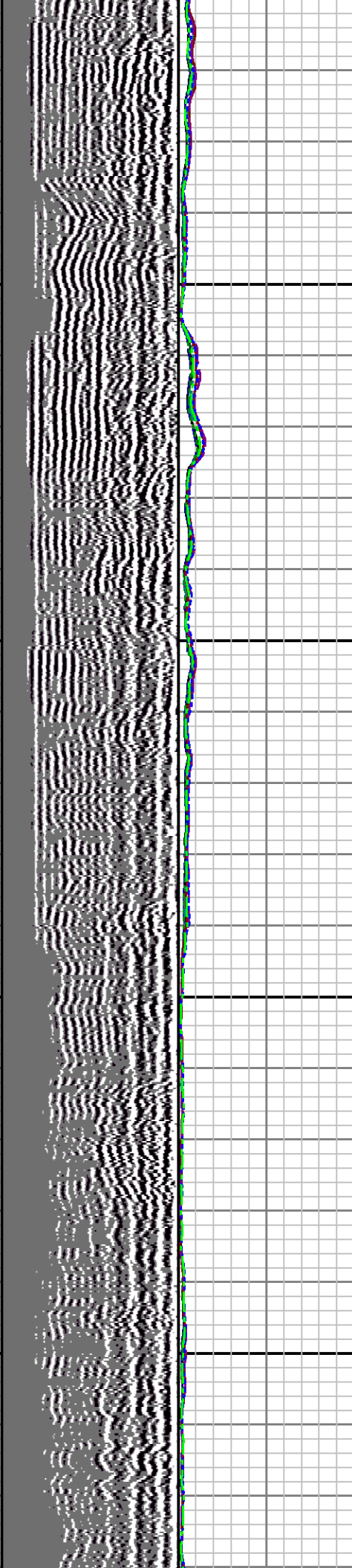
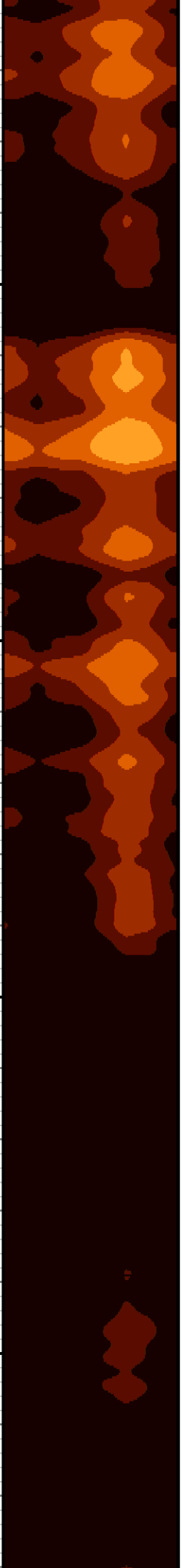


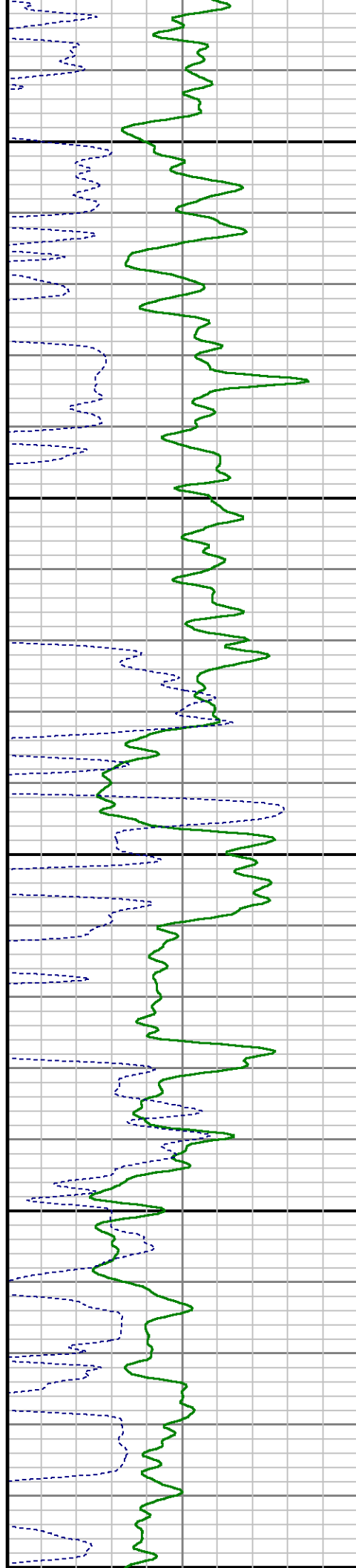
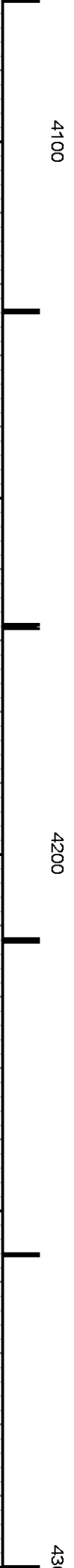
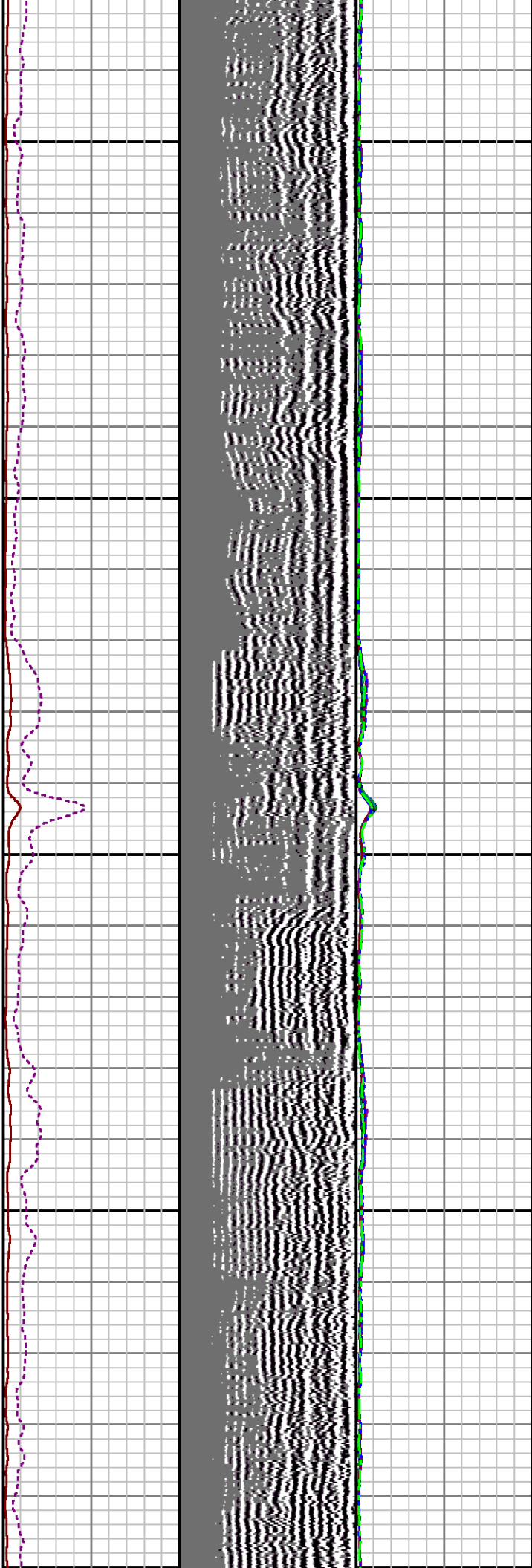
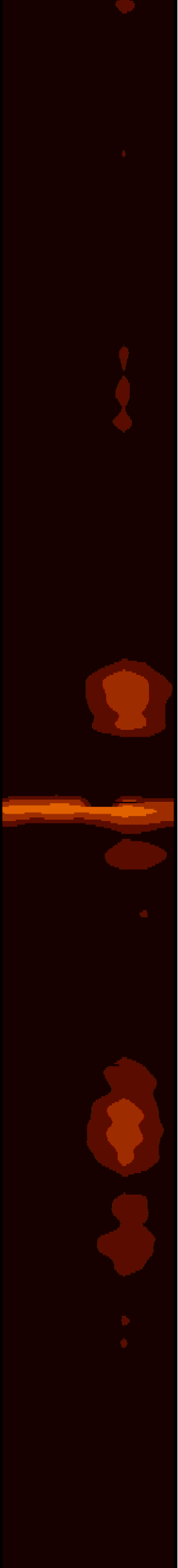


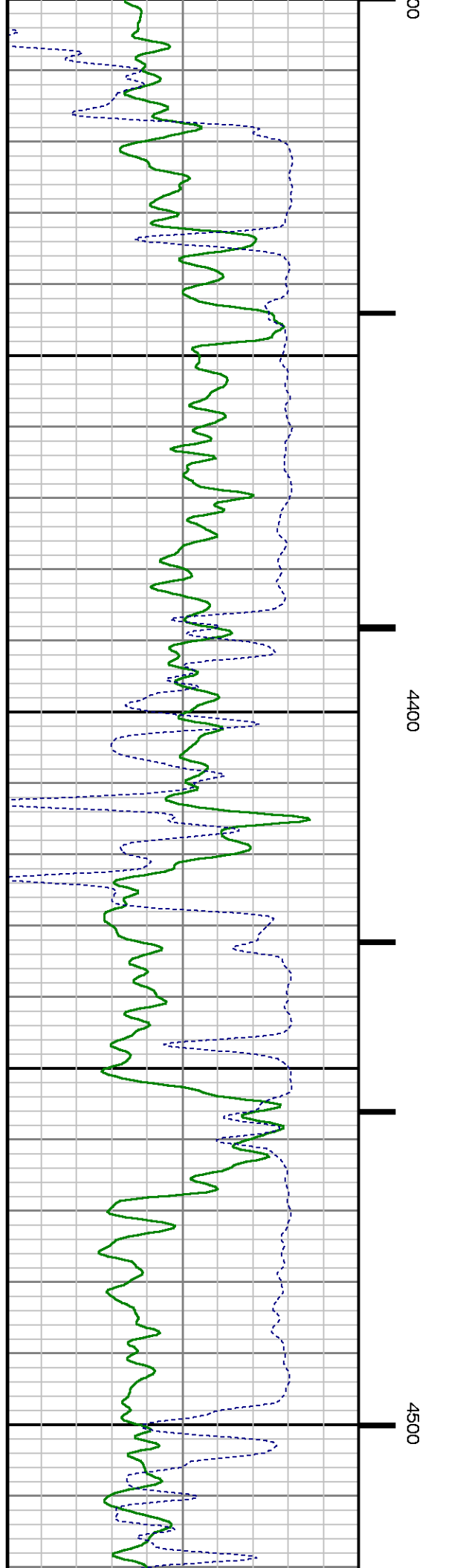
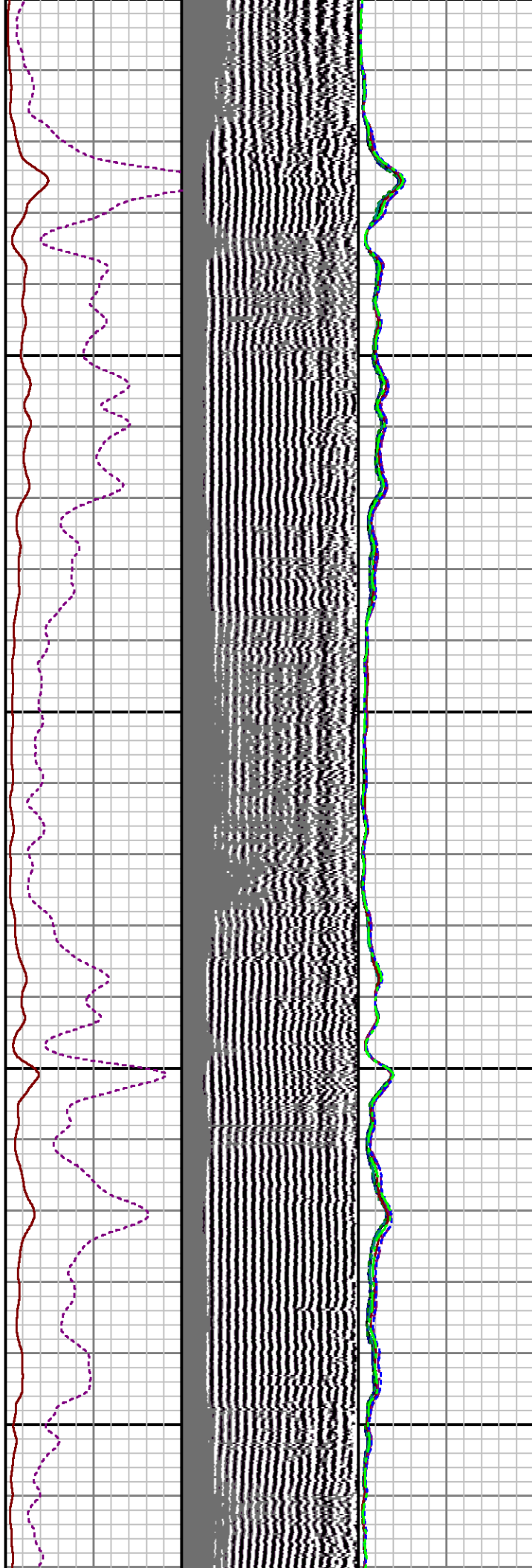


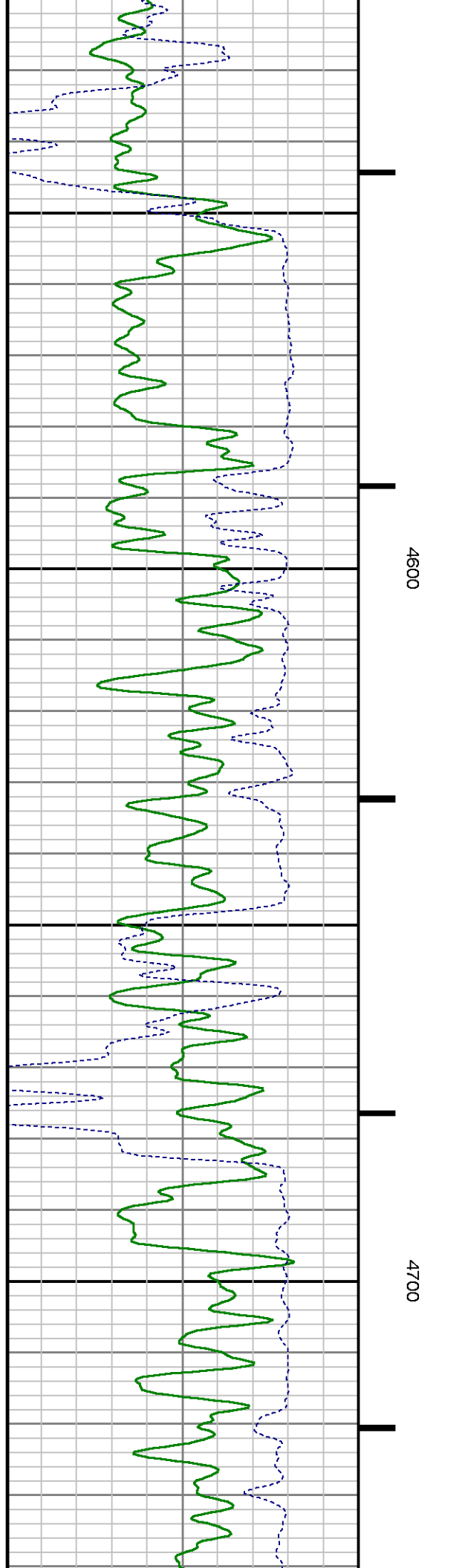
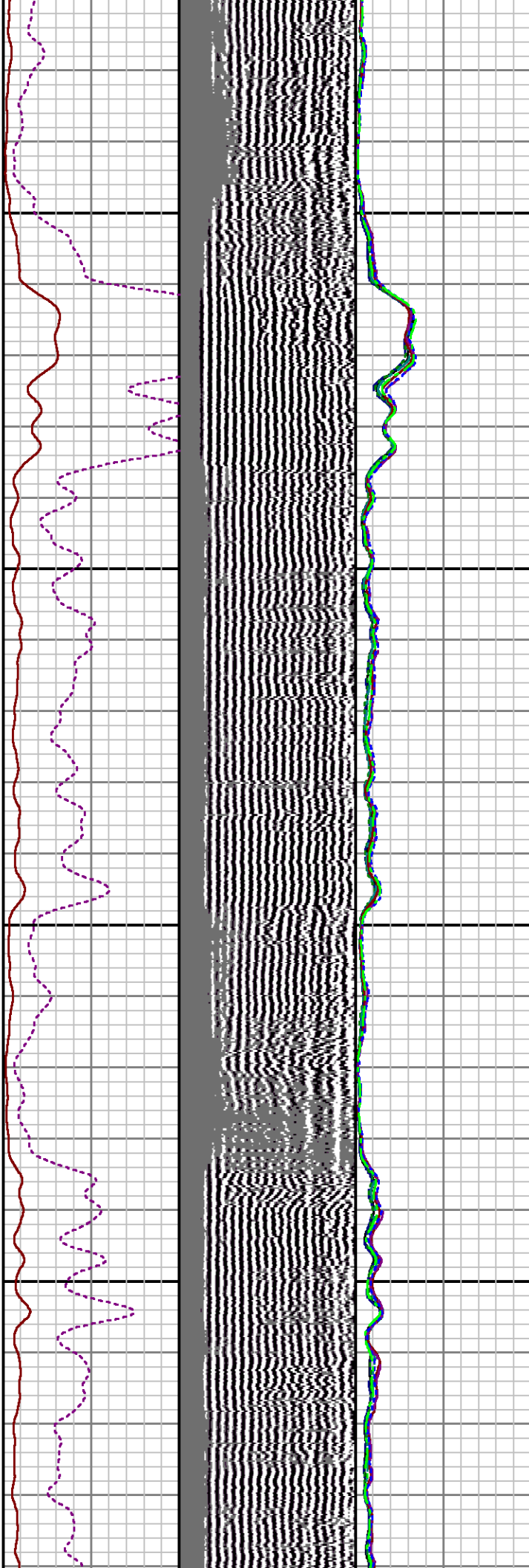


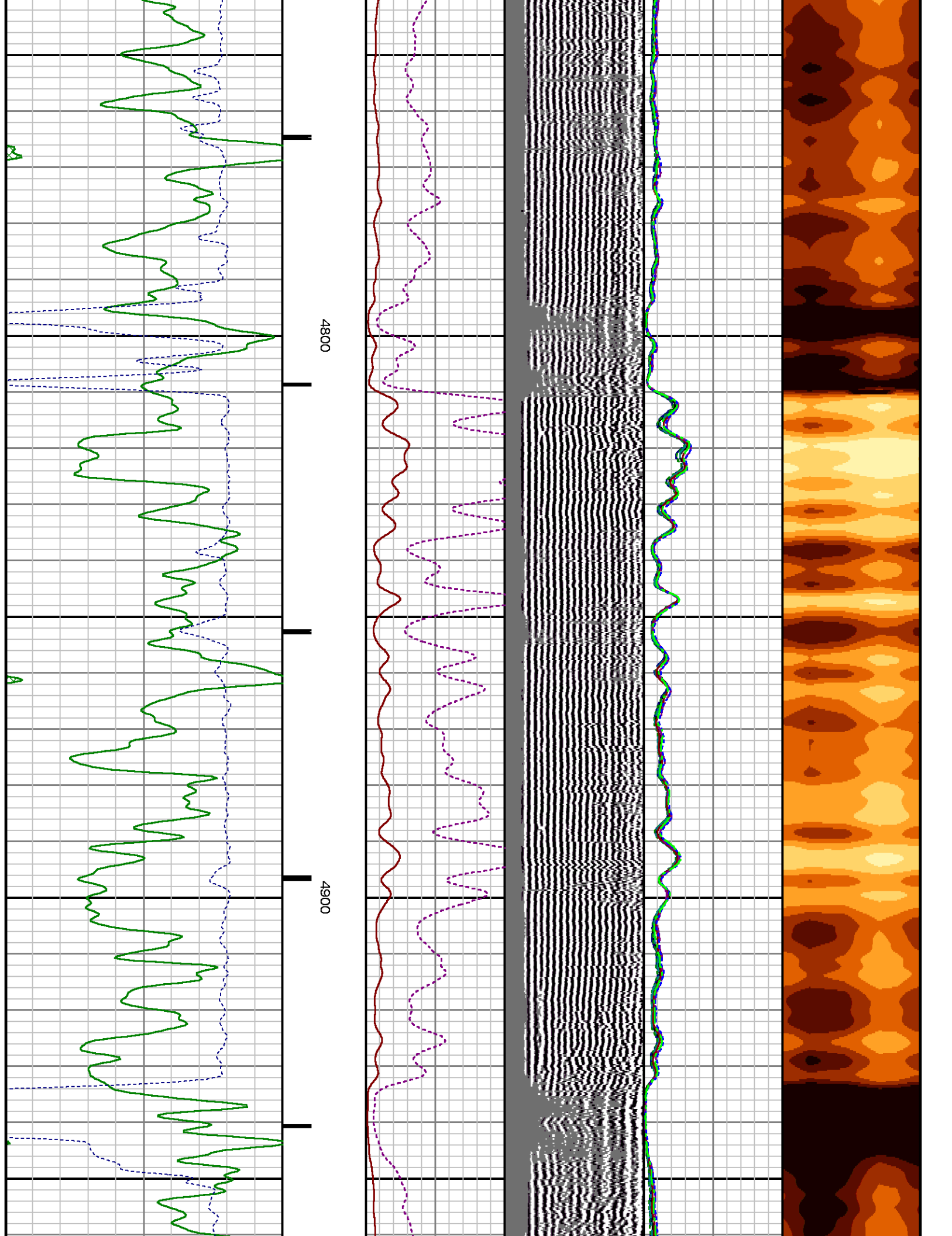


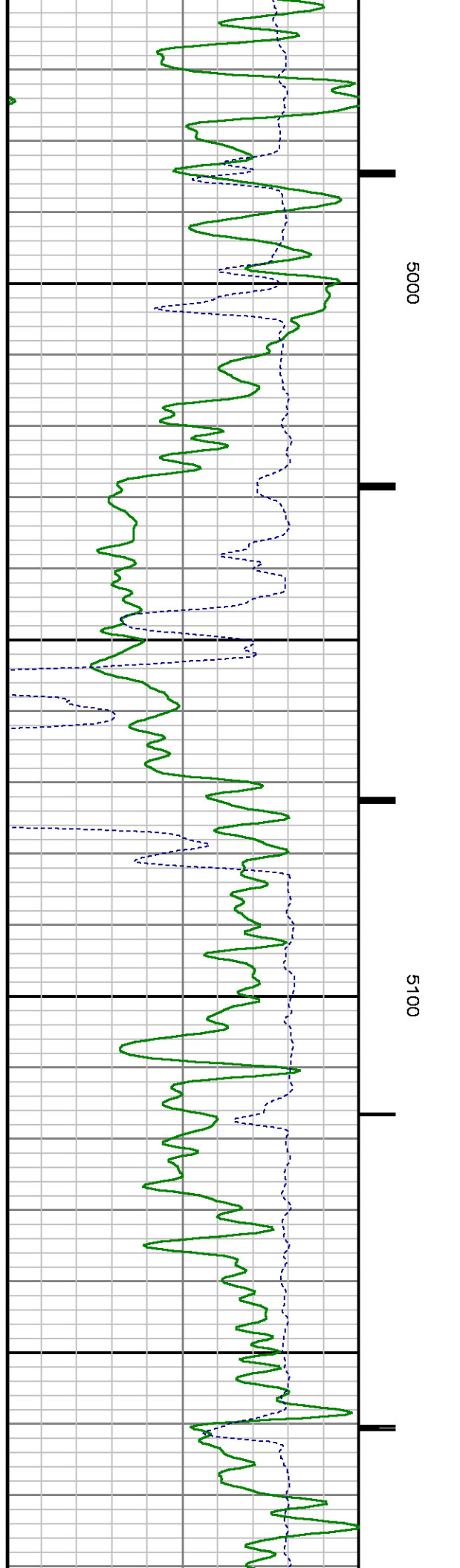
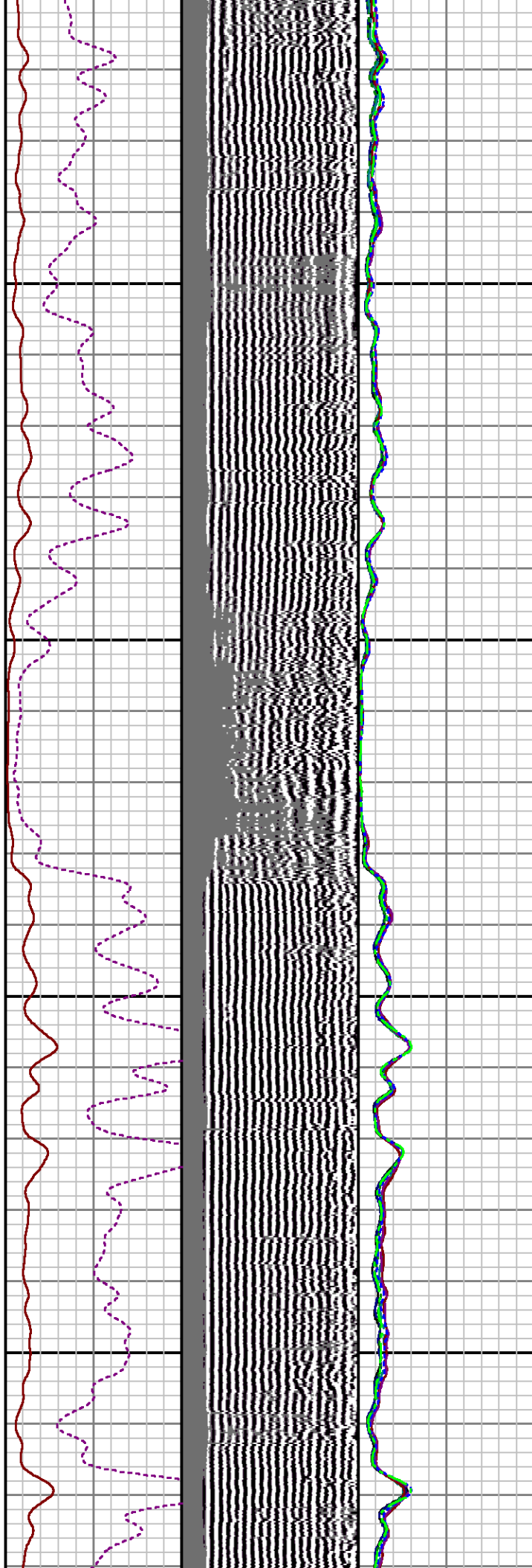


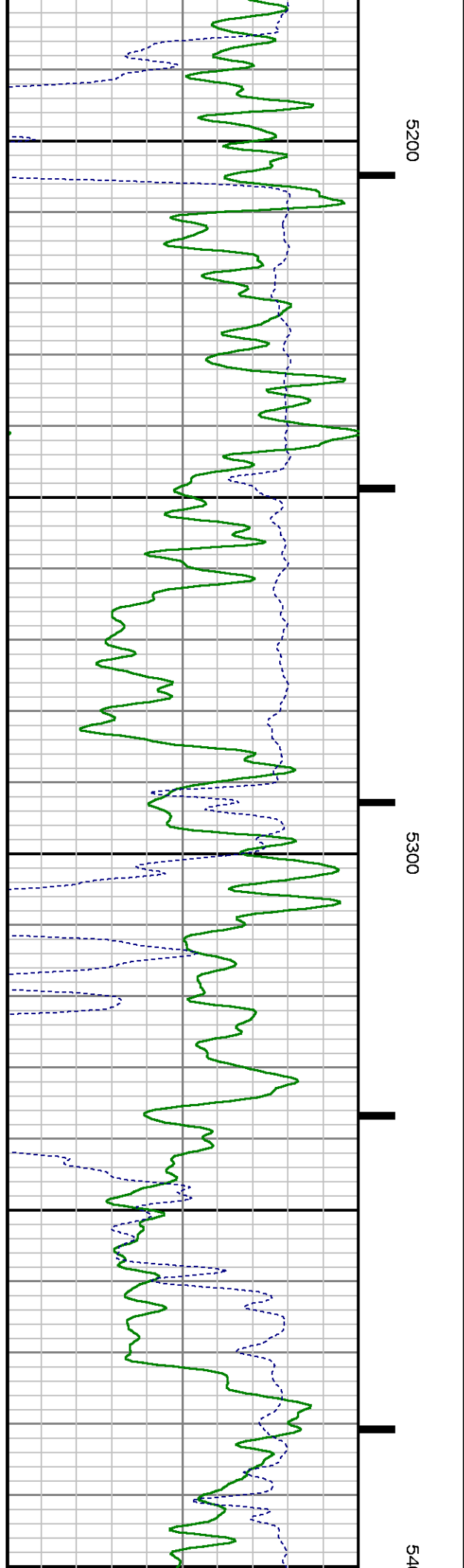
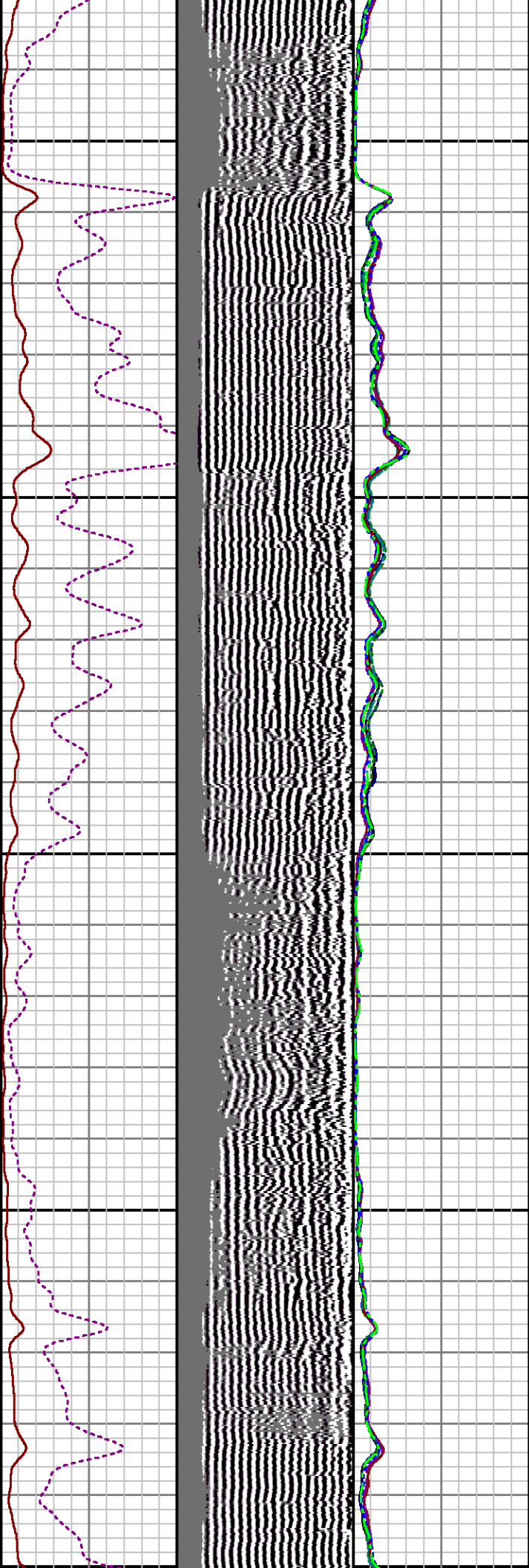
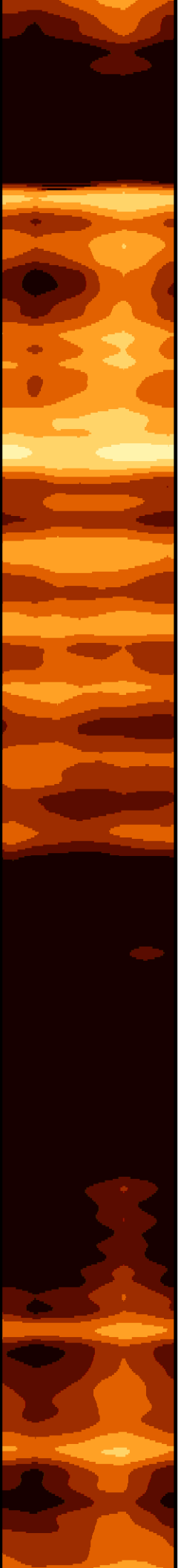


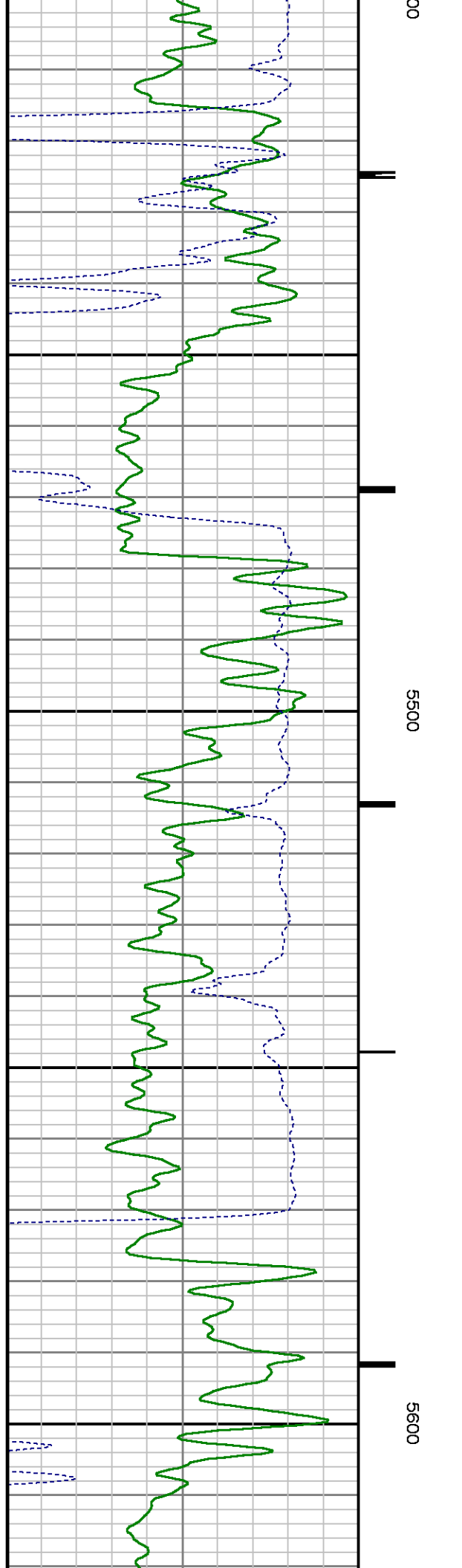
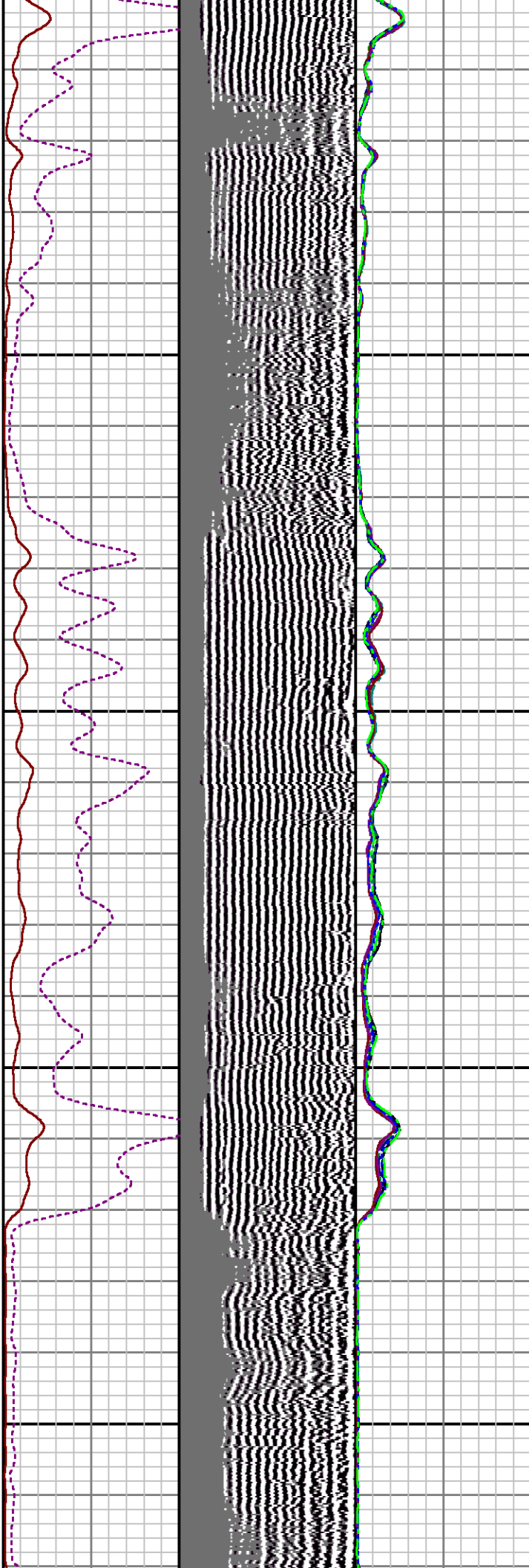
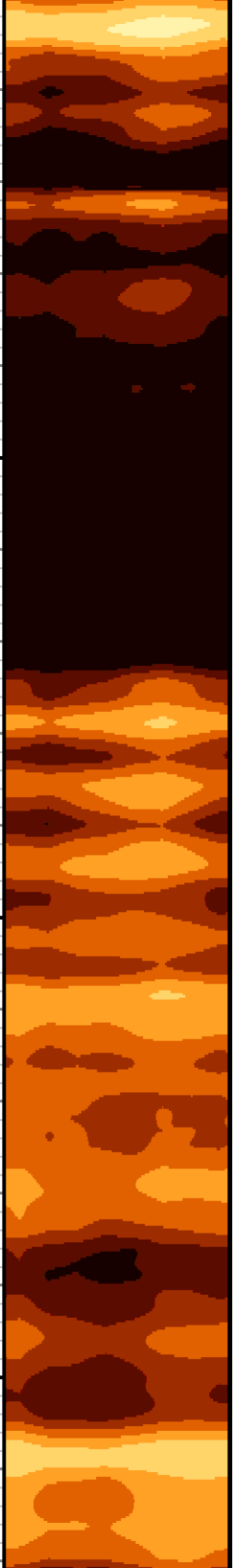


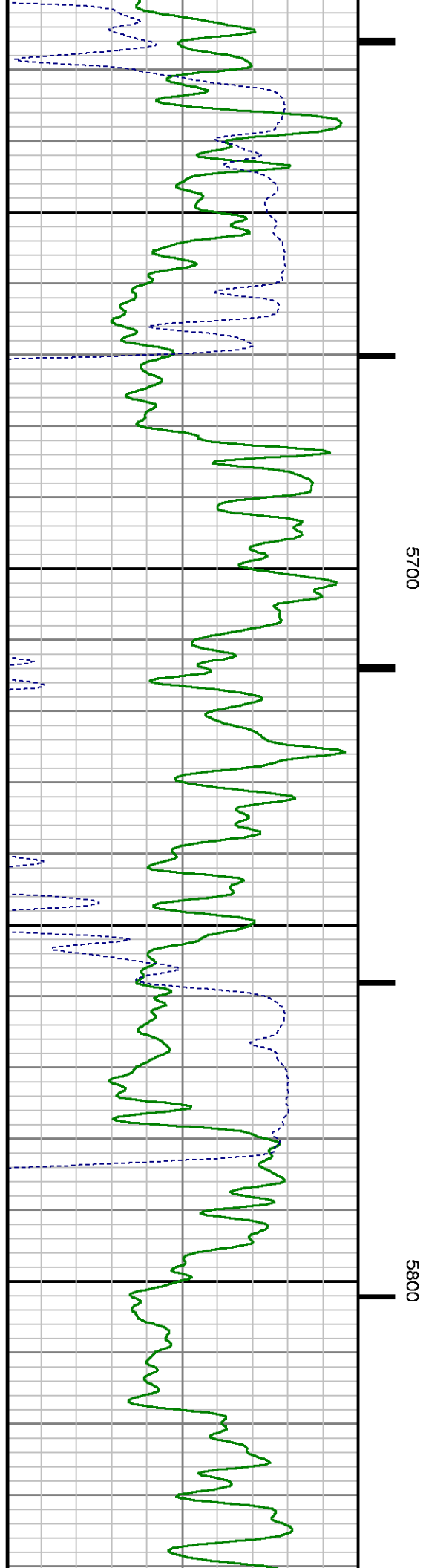
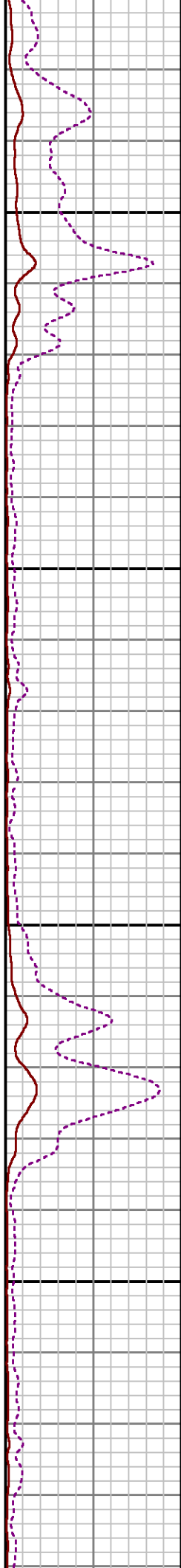
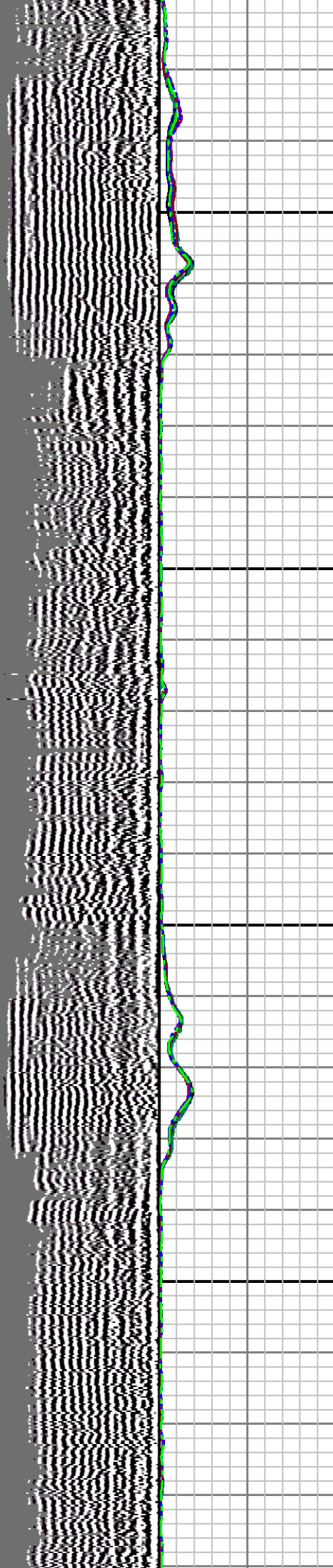


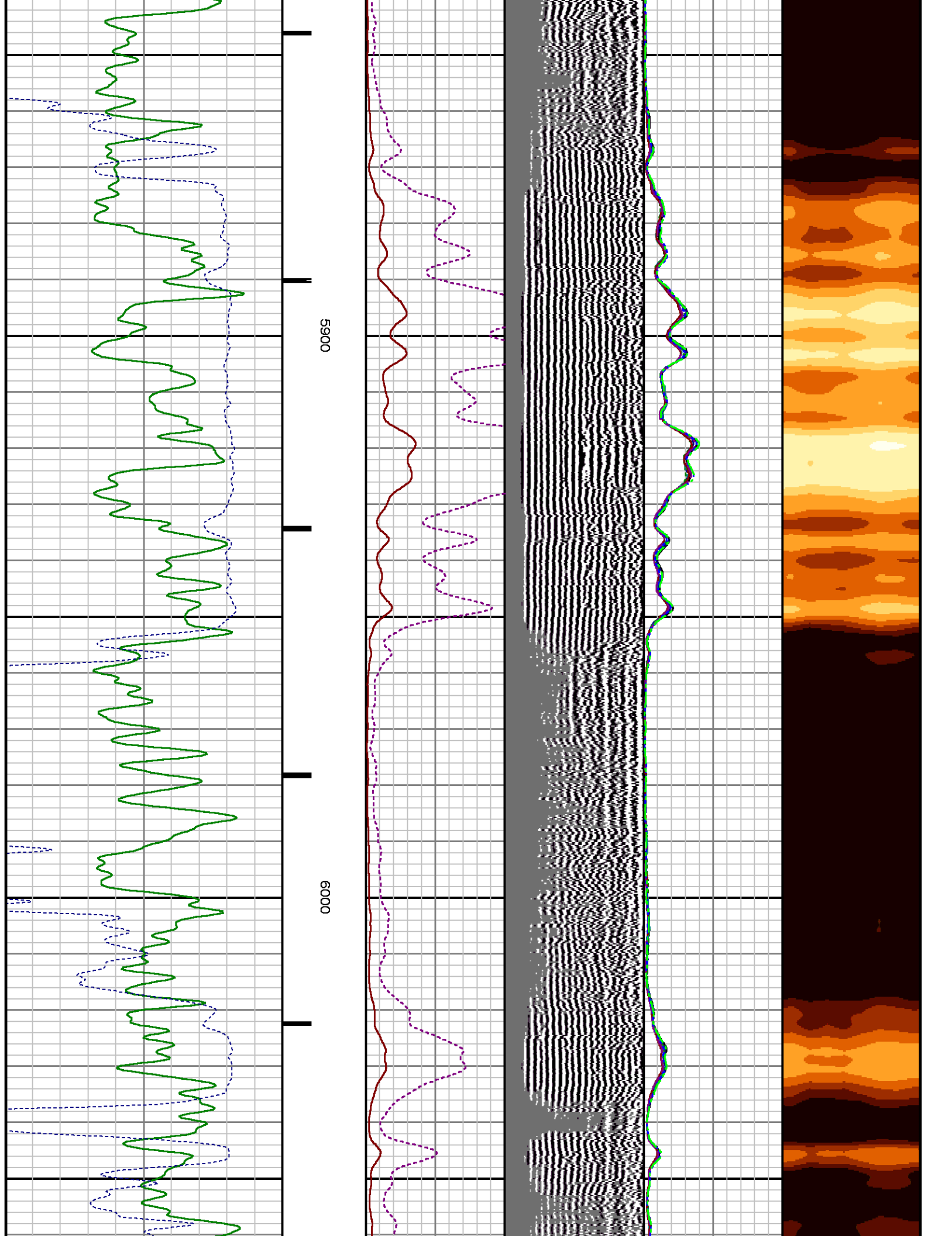


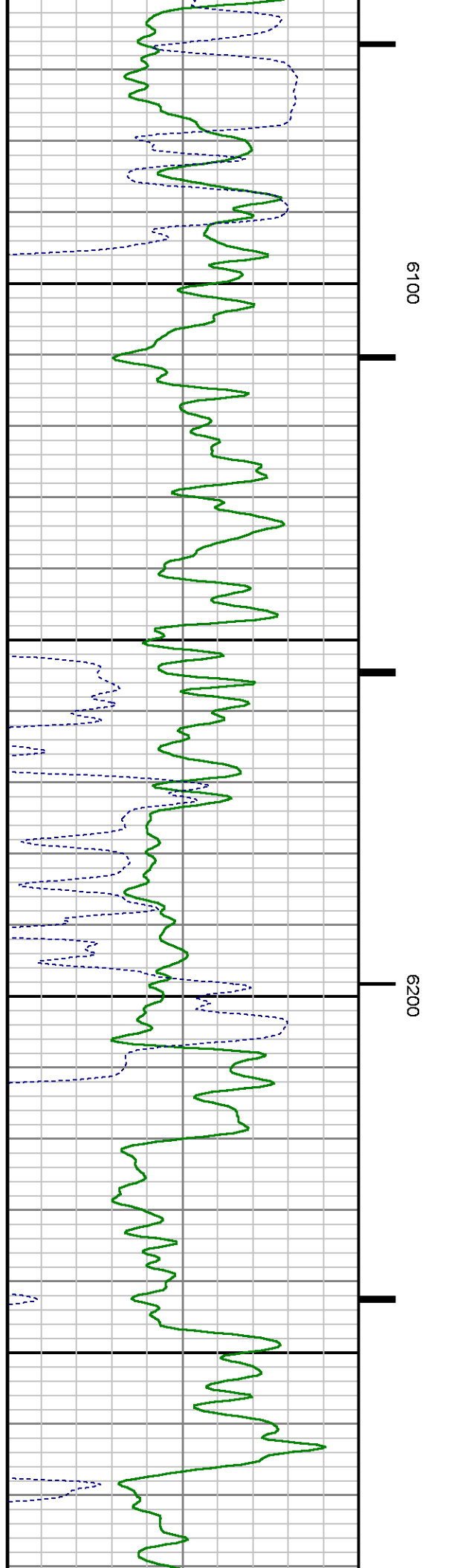
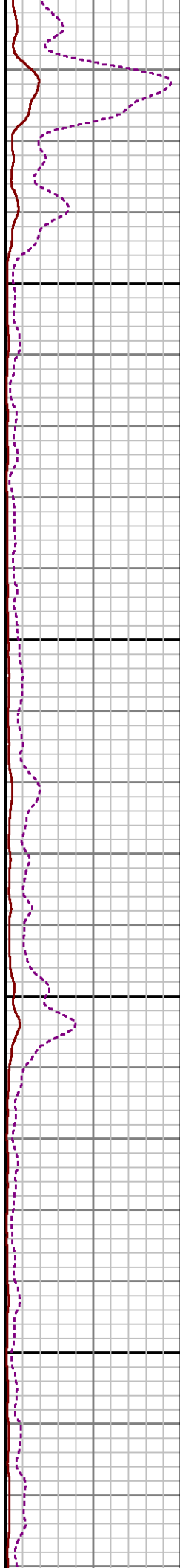
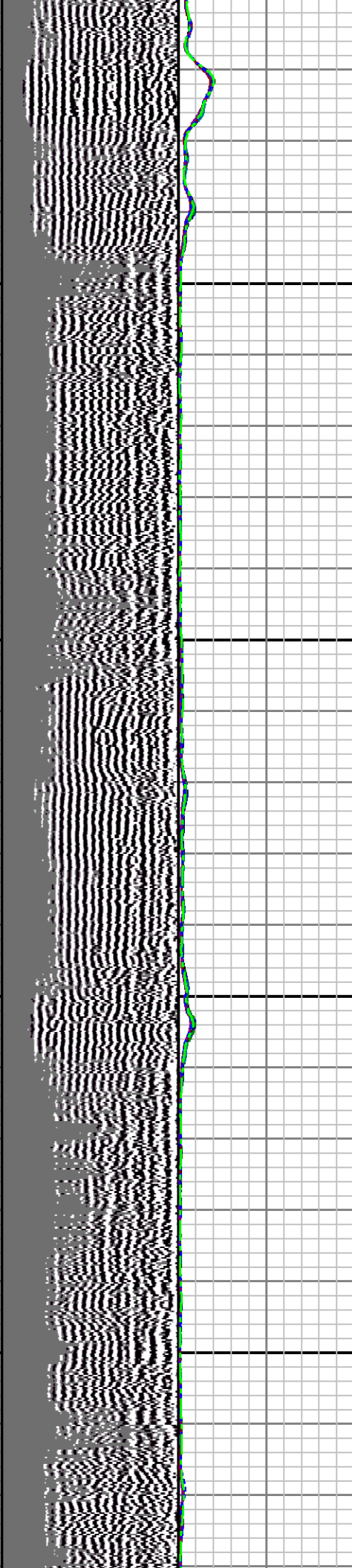


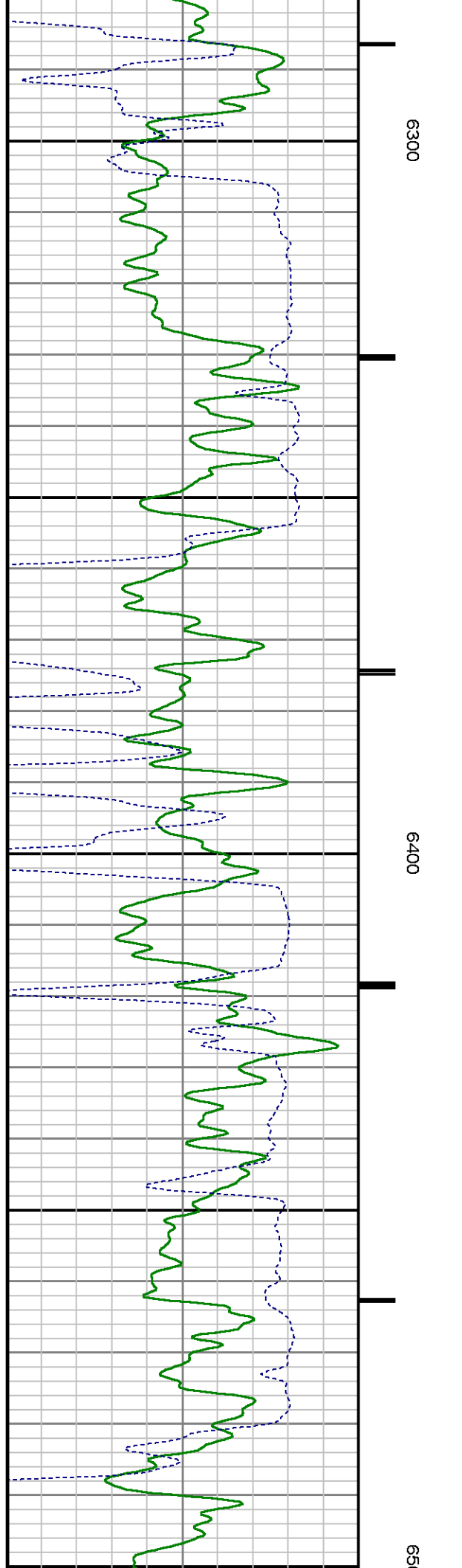
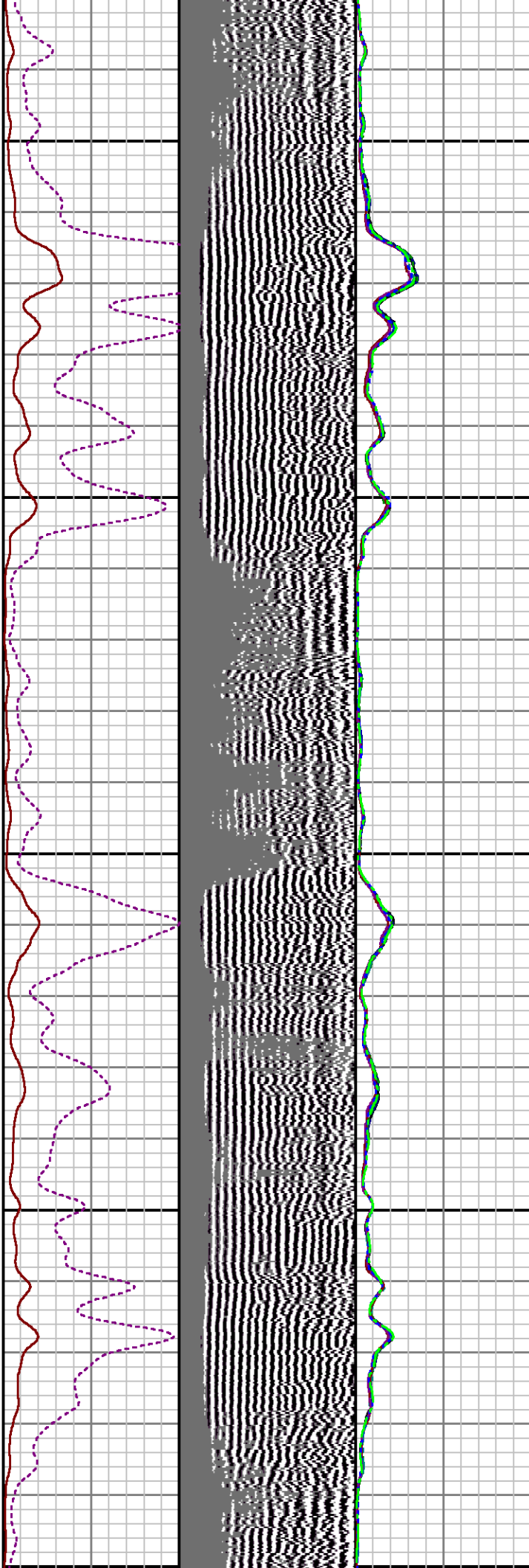
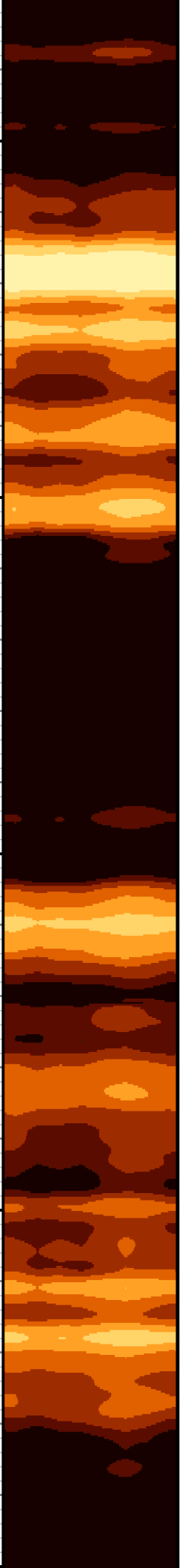


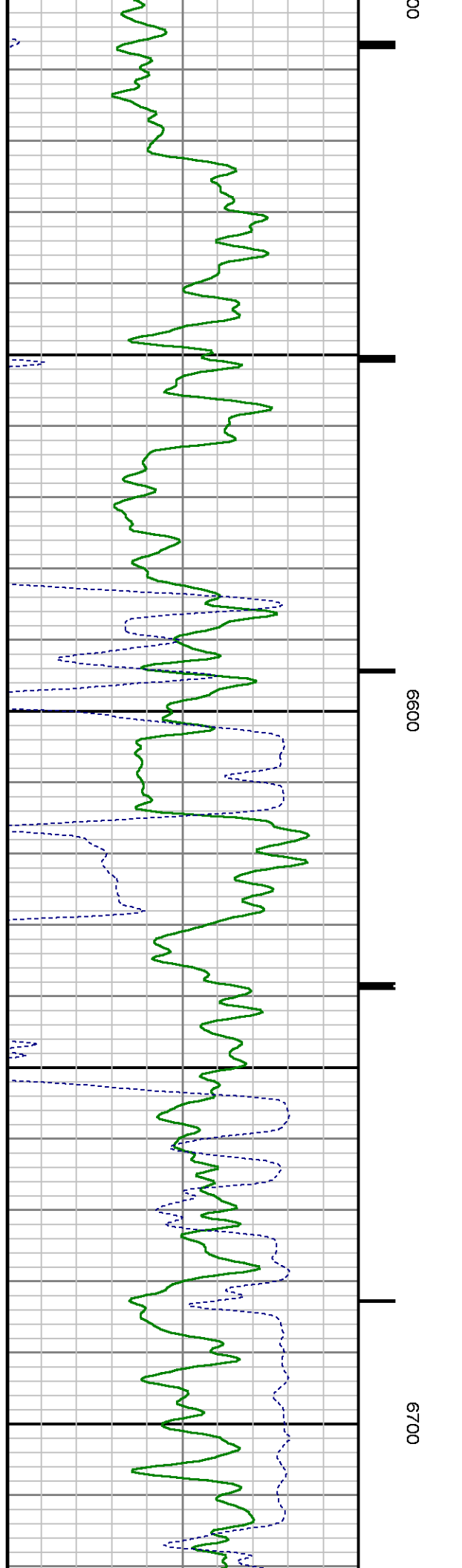
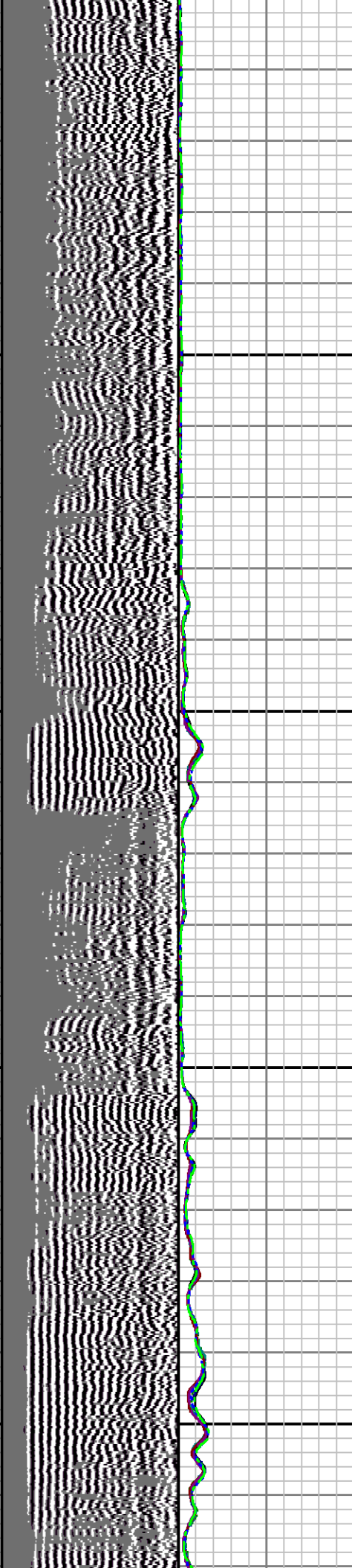
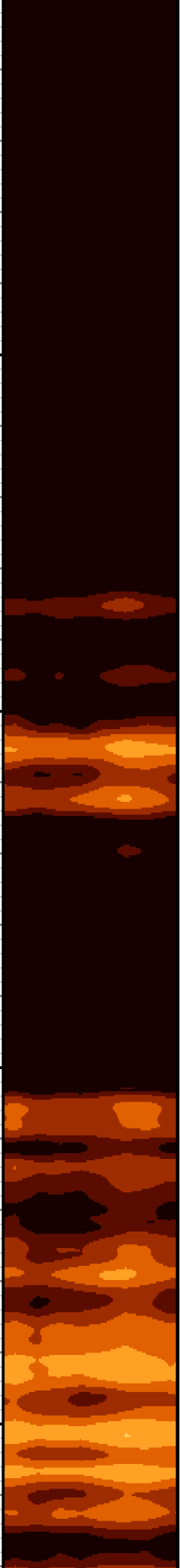


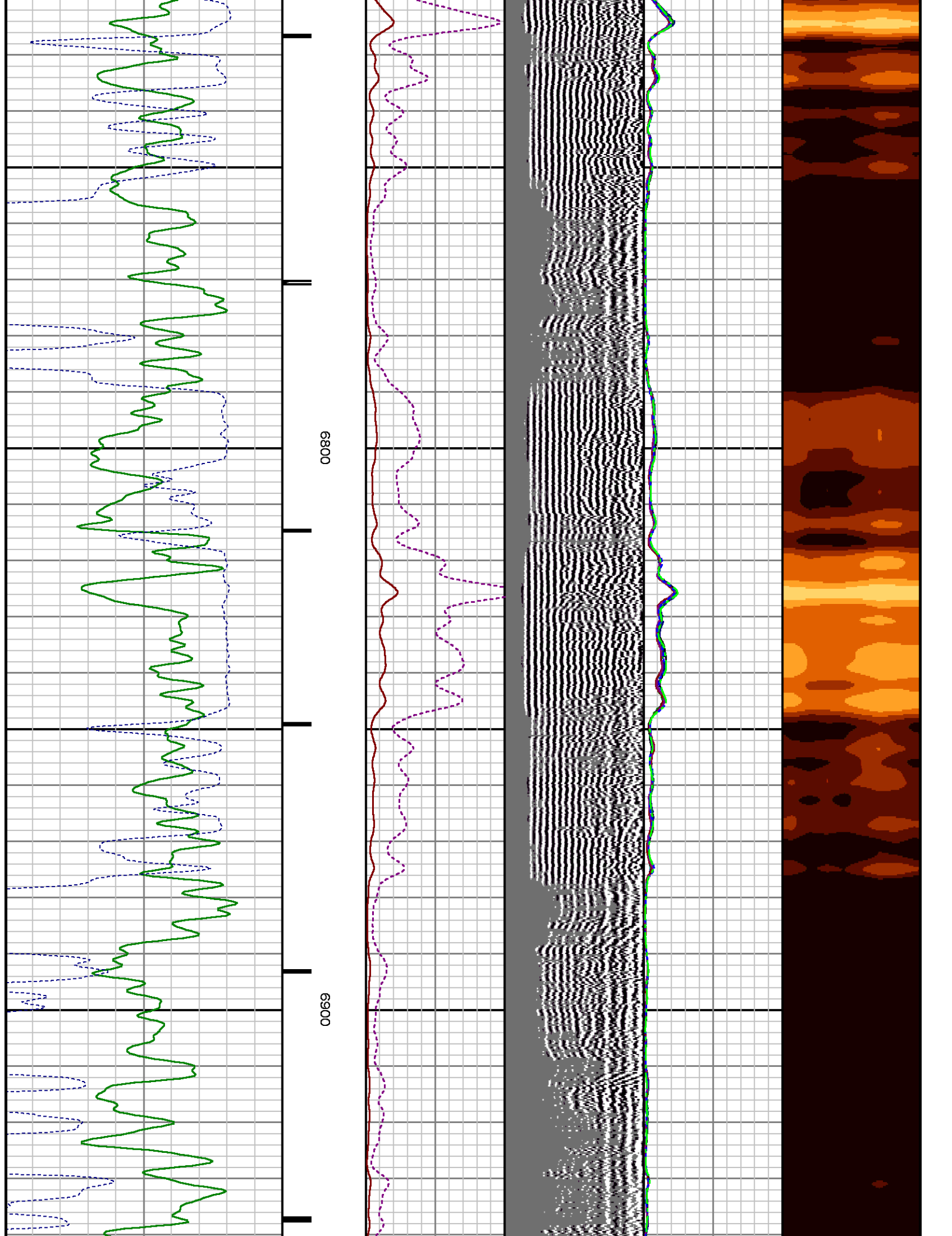


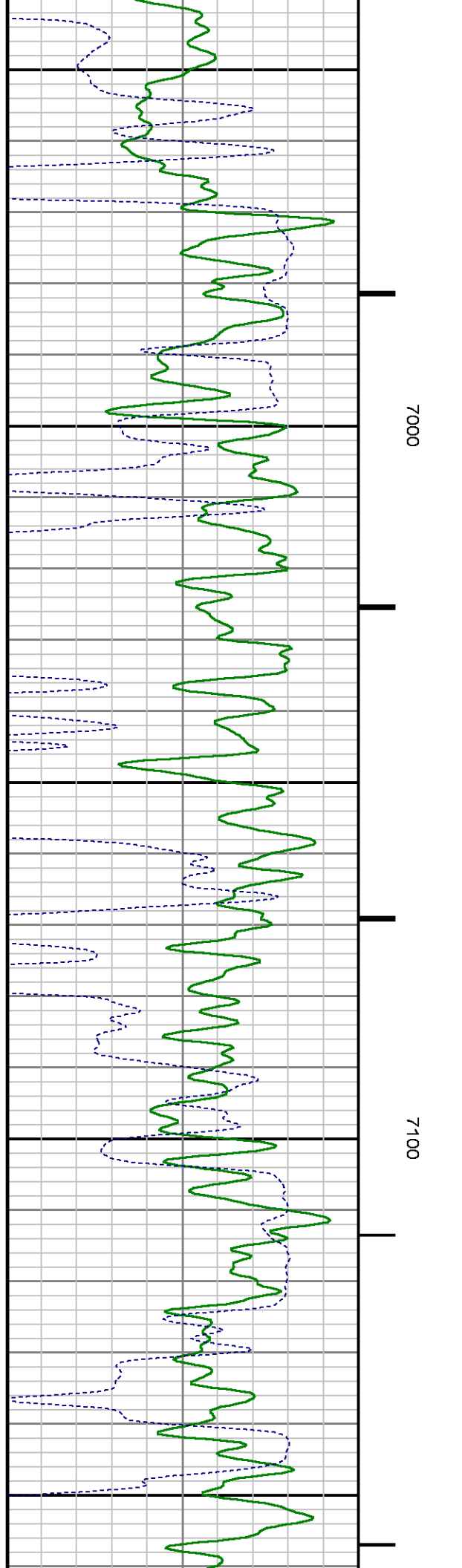
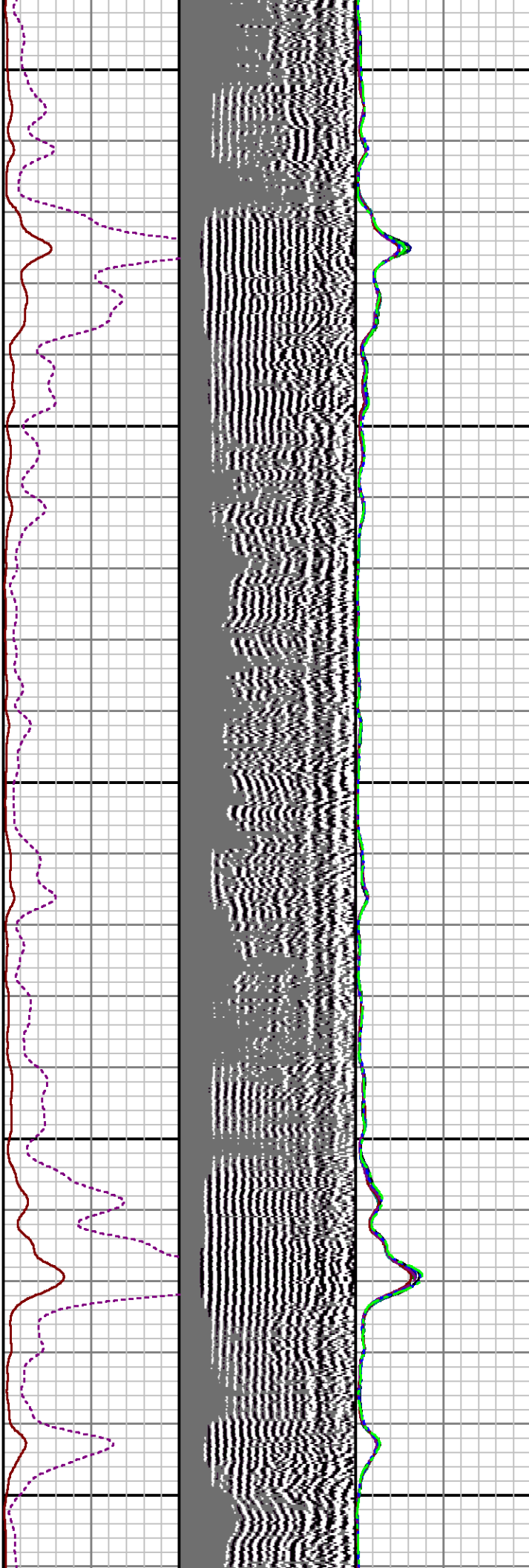
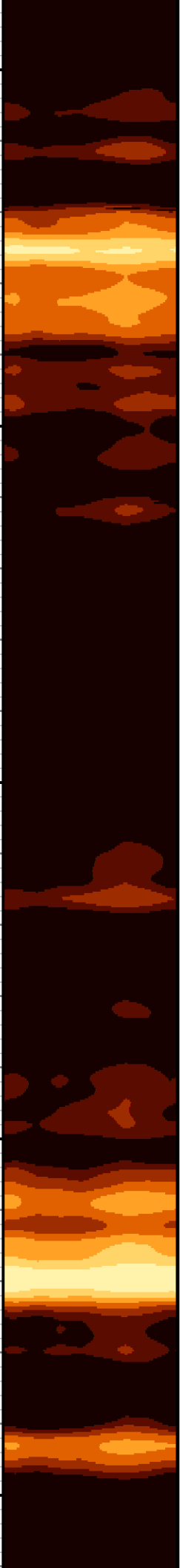


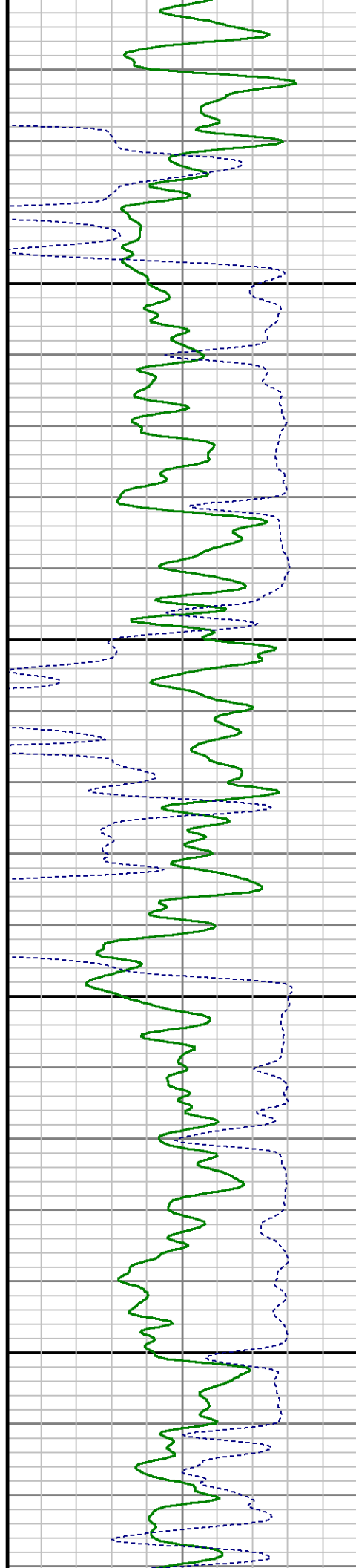
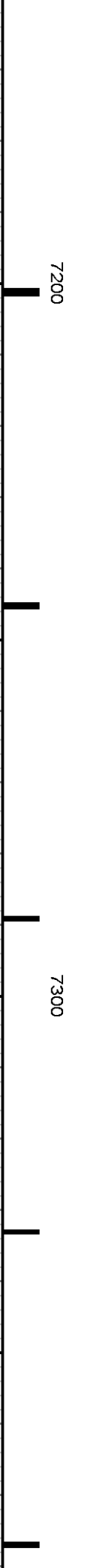
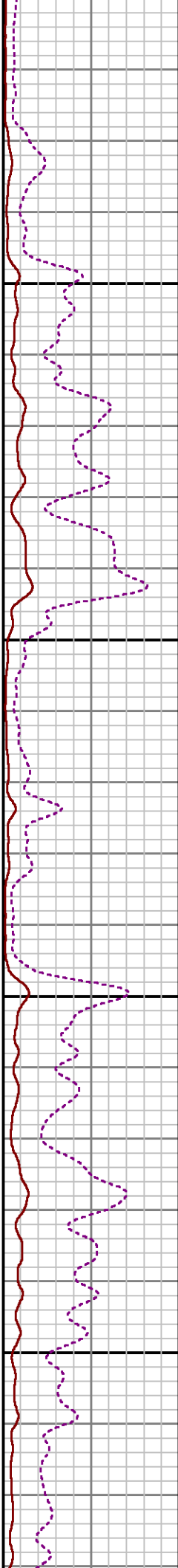
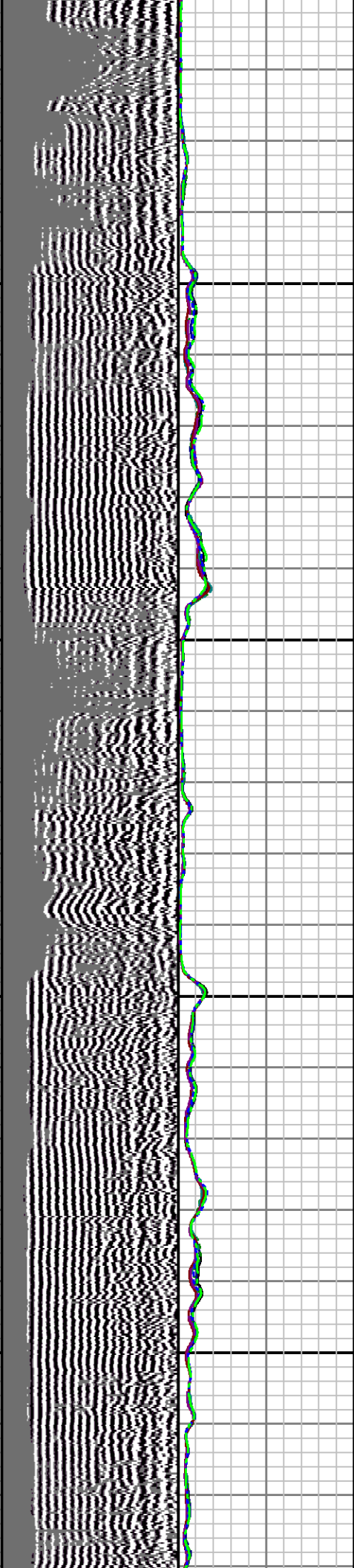
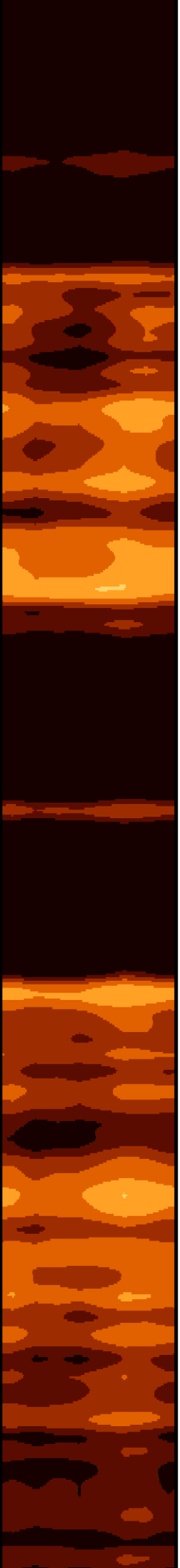


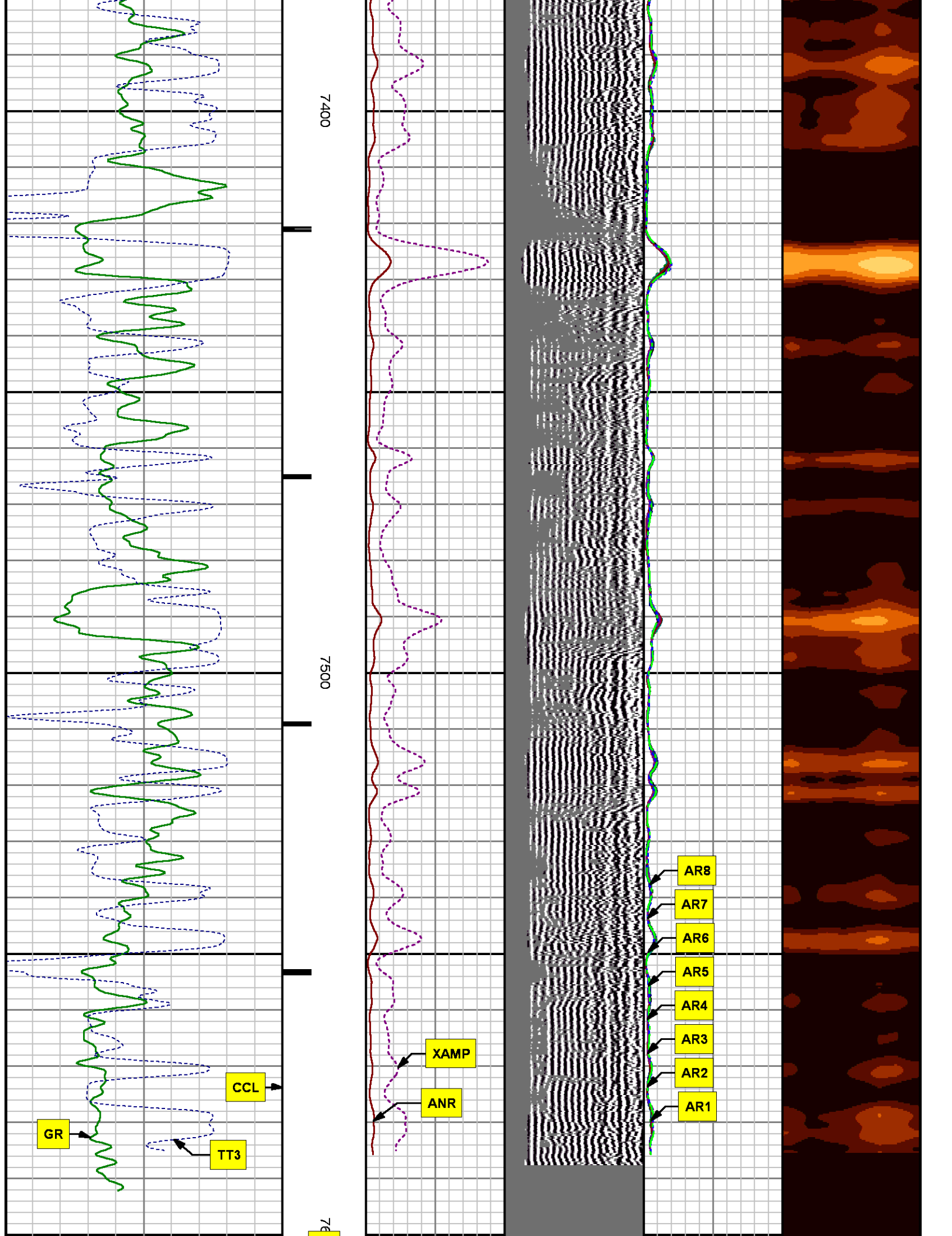


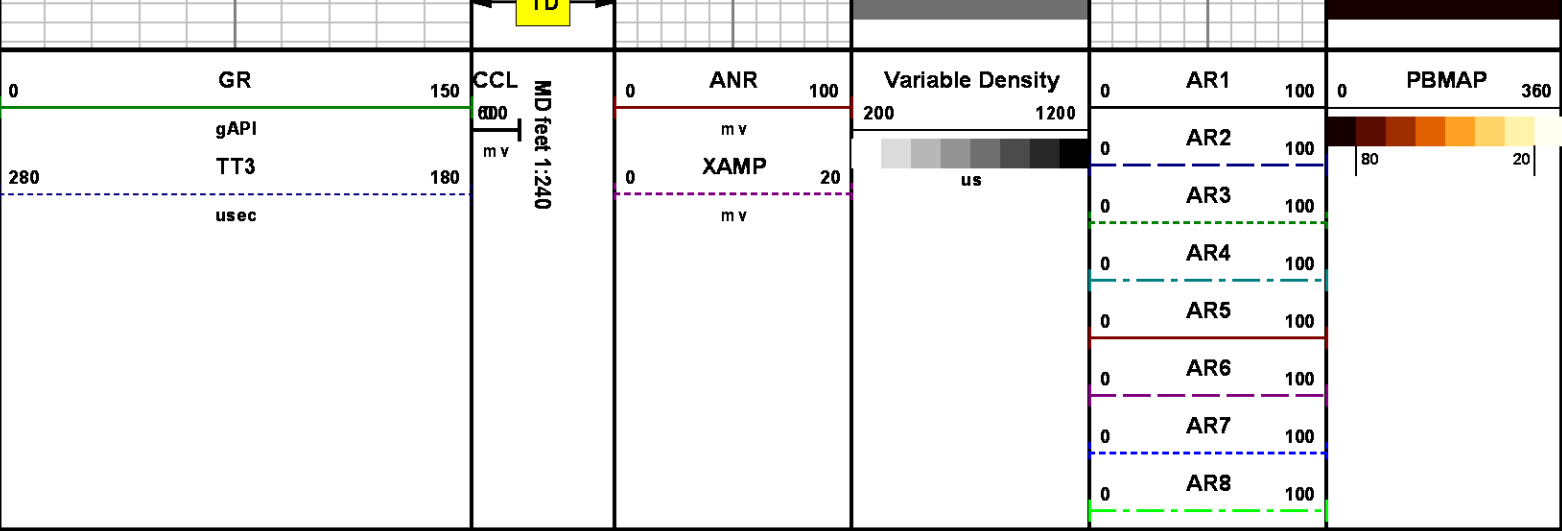












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7269.200	7603.200
RAL	Amp Gate Start Near	195.000	usec	7269.200	7603.200
RAL	Amp Gate Start Radial	195.000	usec	7269.200	7603.200
RAL	Amp Gate Width Far	25.000	usec	7269.200	7603.200
RAL	Amp Gate Width Near	25.000	usec	7269.200	7603.200
RAL	Amp Gate Width Radial	25.000	usec	7269.200	7603.200
RAL	casing od	4.500	inches	7269.200	7603.200
RAL	casing wt	11.600	lbm/ft	7269.200	7603.200
RAL	FB Start Far	291.900	usec	7269.200	7603.200
RAL	FB Start Near	175.391	usec	7269.200	7603.200
RAL	FB Start Radial	175.391	usec	7269.200	7603.200
RAL	FB Thresh Far	10.000	mv	7269.200	7603.200
RAL	FB Thresh Near	4.000	mv	7269.200	7603.200
RAL	FB Thresh Radial	4.000	mv	7269.200	7603.200
RAL	Fluid Travel Time	200.000	usec/ft	7269.200	7603.200

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

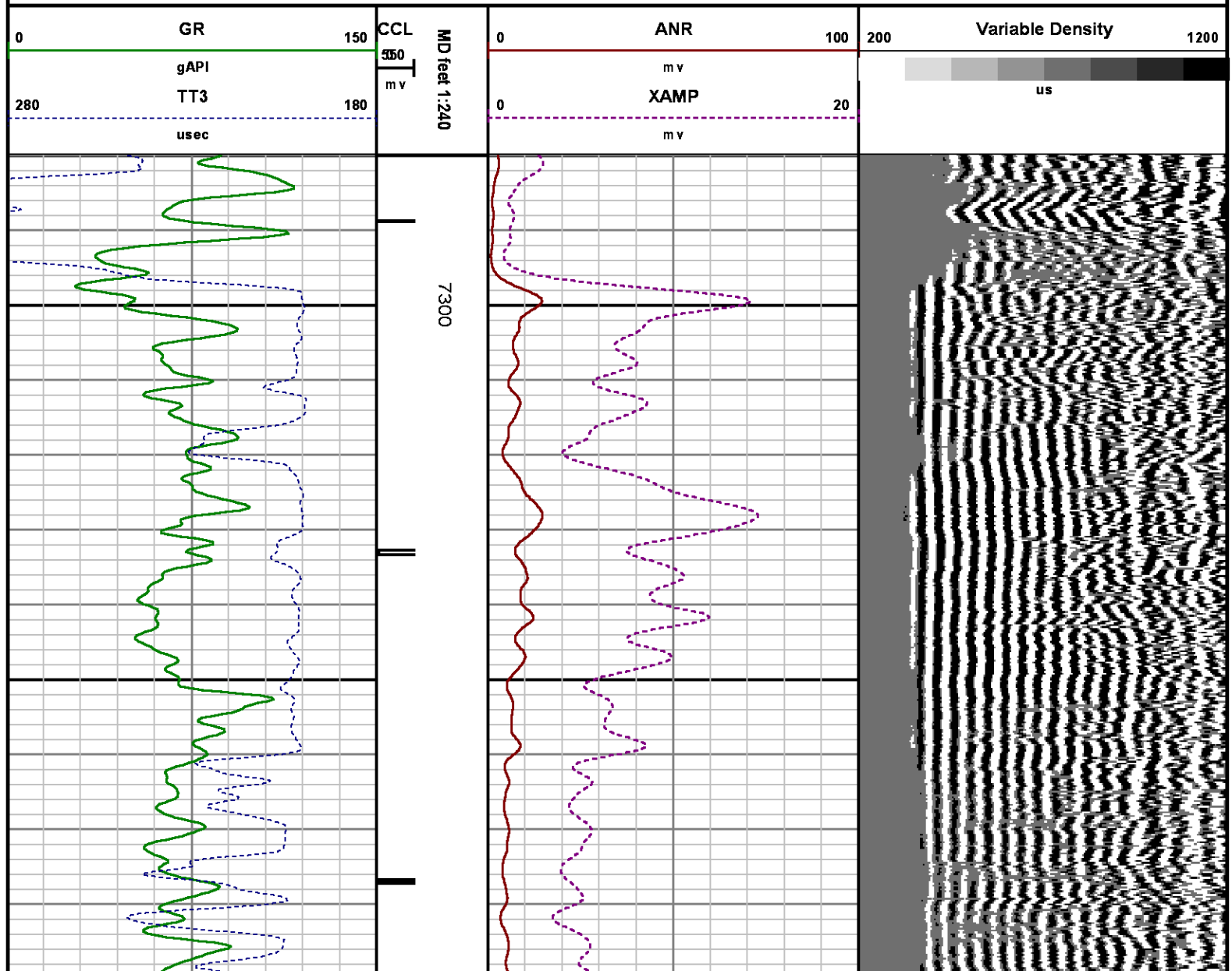
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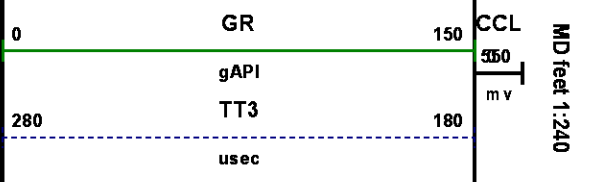
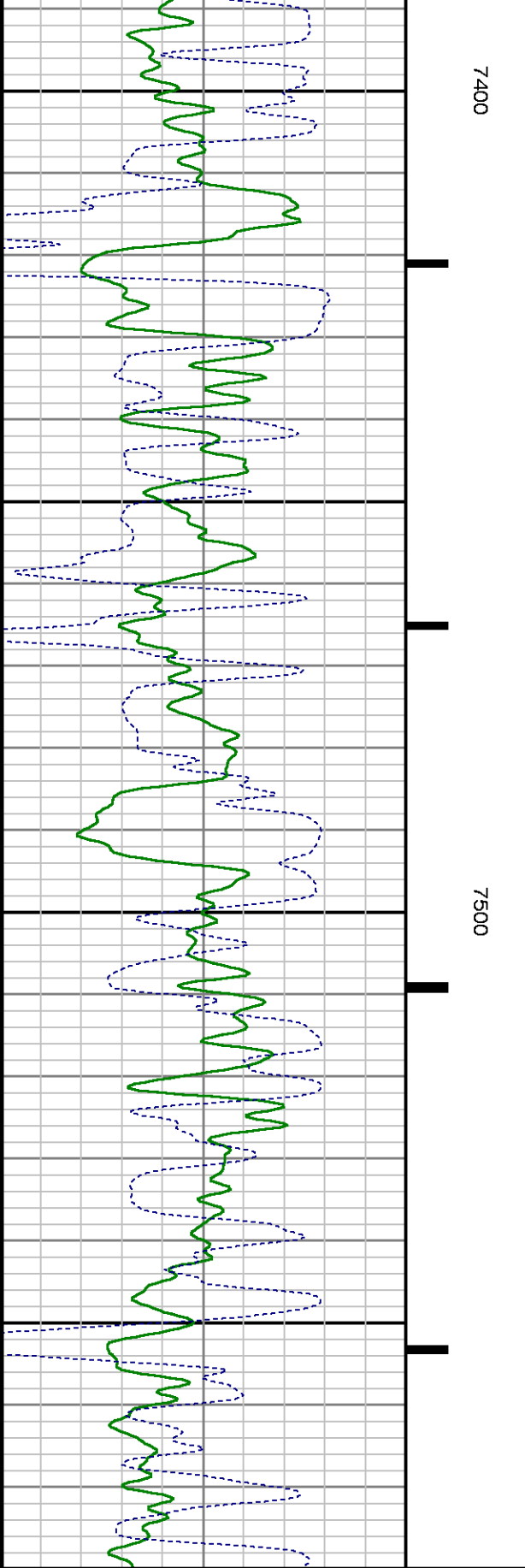
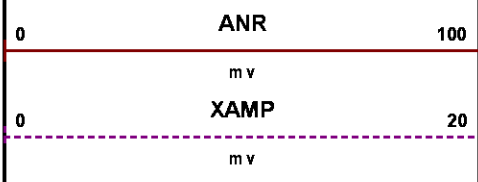
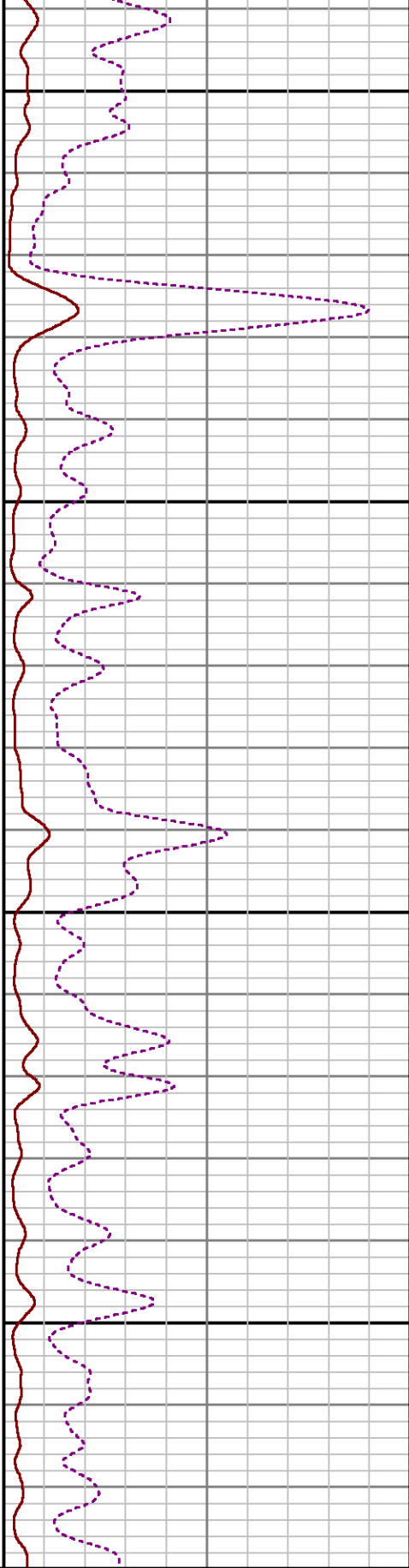
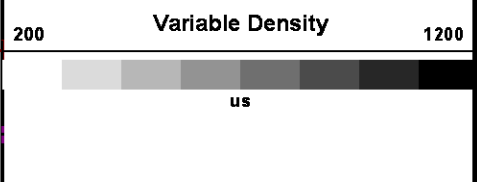
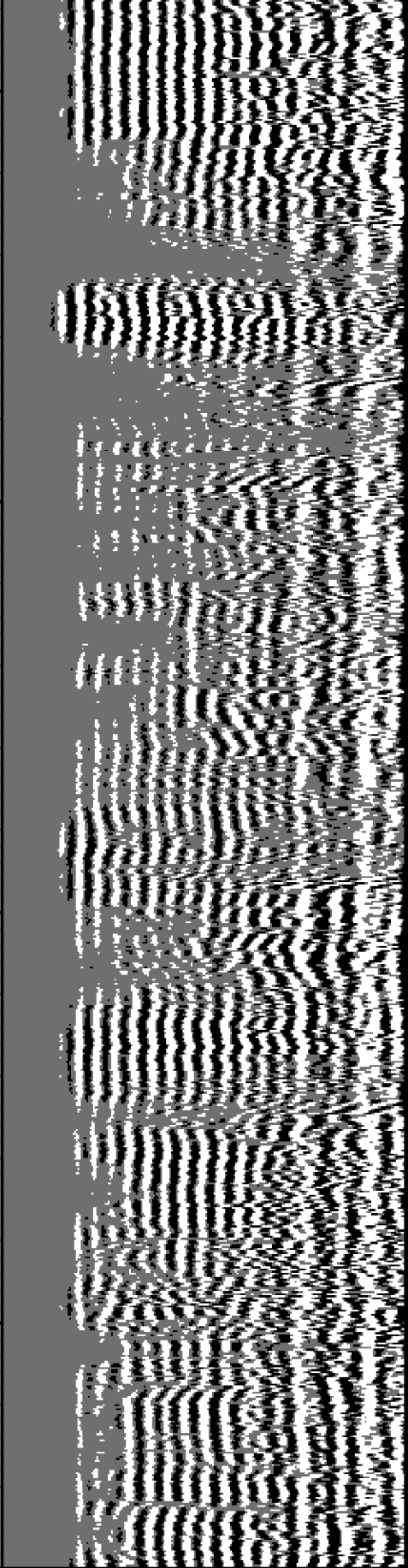
File Name : d:\welldata\wpx\wpx energy pa 414-2\414cbl\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7280.00 - 7580.00 feet UP

Created : 5/12/2014 12:50:02 PM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\49612_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon May 12 10:44:09 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 12

Tool Delay [usec] -52.00 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	0.276	100.00	0.31
3 Ft. Receiver	219	216	30	166	25	0.836	100.00	0.31
5 Ft. Receiver	328	325	30	257	25	0.446	150.00	0.35
Radial #1	219	216	30	166	25	0.883	100.00	0.31
Radial #2	219	216	30	166	25	0.706	100.00	0.31
Radial #3	219	216	30	166	25	0.744	100.00	0.31
Radial #4	219	216	30	166	25	0.885	100.00	0.31
Radial #5	218	216	30	166	25	1.037	100.00	0.31
Radial #6	218	216	30	166	25	0.792	100.00	0.31
Radial #7	217	216	30	166	25	0.444	100.00	0.30
Radial #8	219	216	30	166	25	0.725	100.00	0.30

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49612 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon May 12 10:45:12 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 12

Tool Delay [usec] -52.00 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	-0.049	0.000	1.00	100.000
3 Ft. Receiver	200	30	2.416			
5 Ft. Receiver	317	30	2.287			
Radial #1	200	30	1.707			
Radial #2	200	30	1.719			
Radial #3	200	30	1.870			

Radial #0	200	30	1.959
Radial #4	200	30	2.220
Radial #5	200	30	2.423
Radial #6	200	30	1.921
Radial #7	200	30	1.904
Radial #8	200	30	

GAMMA RAY

Calibration File: C:\case\calver\GR\45608.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 08 09:48:12 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	97.82	367.47	0.686	67.11	252.11	185.00

Verification File: C:\case\calver\GR\45608.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu May 08 09:49:43 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

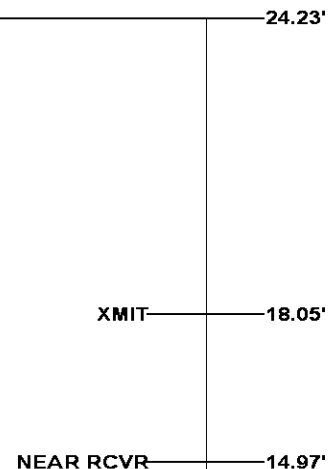
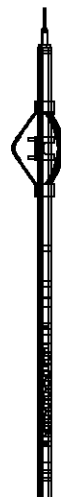
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	98.76	372.44	0.686	67.76	255.53	187.77

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



FAR RCVR	13.05'
CCL	11.34'
GR	9.49'
NEU	4.09'
	0.00'

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

WPX ENERGY PA 414-2

Field

PARACHUTE

County

GARFIELD

State

CO

Location

SHL: 2010' FSL & 1559' FWL

BHL: 584' FSL & 659' FWL

SEC 2 TWP 7S RGE 95W

Elevations

KB 5846 ft

DF

GL 5821 ft

File No:

CH085687

API No:

05045221440000

2 7S 95W

GV 86-2 PAD

AZTEC 1000