



RADIAL ANALYSIS BOND LOG

Baker Atlas

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

CH086762 **Well** **PA 313-6**

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

0504522250000 **County** **GARFIELD** **State** **CO**

Location

6 7S 95W **SHL: 795' FSL & 738' FWL**

PA 14-S PAD **BHL: 2170' FSL & 346' FWL**

NABORS 674 **SEC 6 TWP 7S RGE 95W**

Other Services

NONE

Permanent Datum **GL Elevation 5153 ft**

Log Measured From **KB 26 ft Above P. D.**

Drill Measured From **KB Elevations KB 5179 ft DF GL 5153 ft**

Date	05/JUN/14	
Run	ONE	
Service Order	US086762	
Depth Driller	6845 ft	
Depth Logger	6800 ft	
Bottom Logged Interval	6790 ft	
Top Logged Interval	26 ft	
Time Started	7:00	
Time Finished	9:30	
Operator Rig Time	2.5 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	62 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	66 fpm	
Maximum Recorded Temperature	215 degF	
Reference Log	BAKER HUGHES OPEN HOLE LOG	
Reference Log Date	18/MAY/2014	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEMELL	
Witnessed By	CHRIS TILLER	

- 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	1170 ft
8.75 in	1170 ft	6851 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1170 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	6851 ft

Remarks
All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 18/MAY/2014 at the clients request.
The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray reference.

The amount of linear shift is 2 feet.

Logged with zero PSI at wellhead.

BHT = 215 °F

SJ = 3447'-3470'

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	33.156	6801.250
RAL	Amp Gate Start Near	195.000	usec	33.156	6801.250
RAL	Amp Gate Start Radial	195.000	usec	33.156	6801.250
RAL	Amp Gate Width Far	25.000	usec	33.156	6801.250
RAL	Amp Gate Width Near	25.000	usec	33.156	6801.250
RAL	Amp Gate Width Radial	25.000	usec	33.156	6801.250
RAL	casing od	4.500	inches	33.156	6801.250
RAL	casing wt	11.600	lbm/ft	33.156	6801.250
RAL	FB Start Far	291.900	usec	33.156	6801.250
RAL	FB Start Near	175.391	usec	33.156	6801.250
RAL	FB Start Radial	175.391	usec	33.156	6801.250
RAL	FB Thresh Far	10.000	mv	33.156	6801.250
RAL	FB Thresh Near	4.000	mv	33.156	6801.250
RAL	FB Thresh Radial	4.000	mv	33.156	6801.250
RAL	Fluid Travel Time	200.000	usec/ft	33.156	6801.250

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

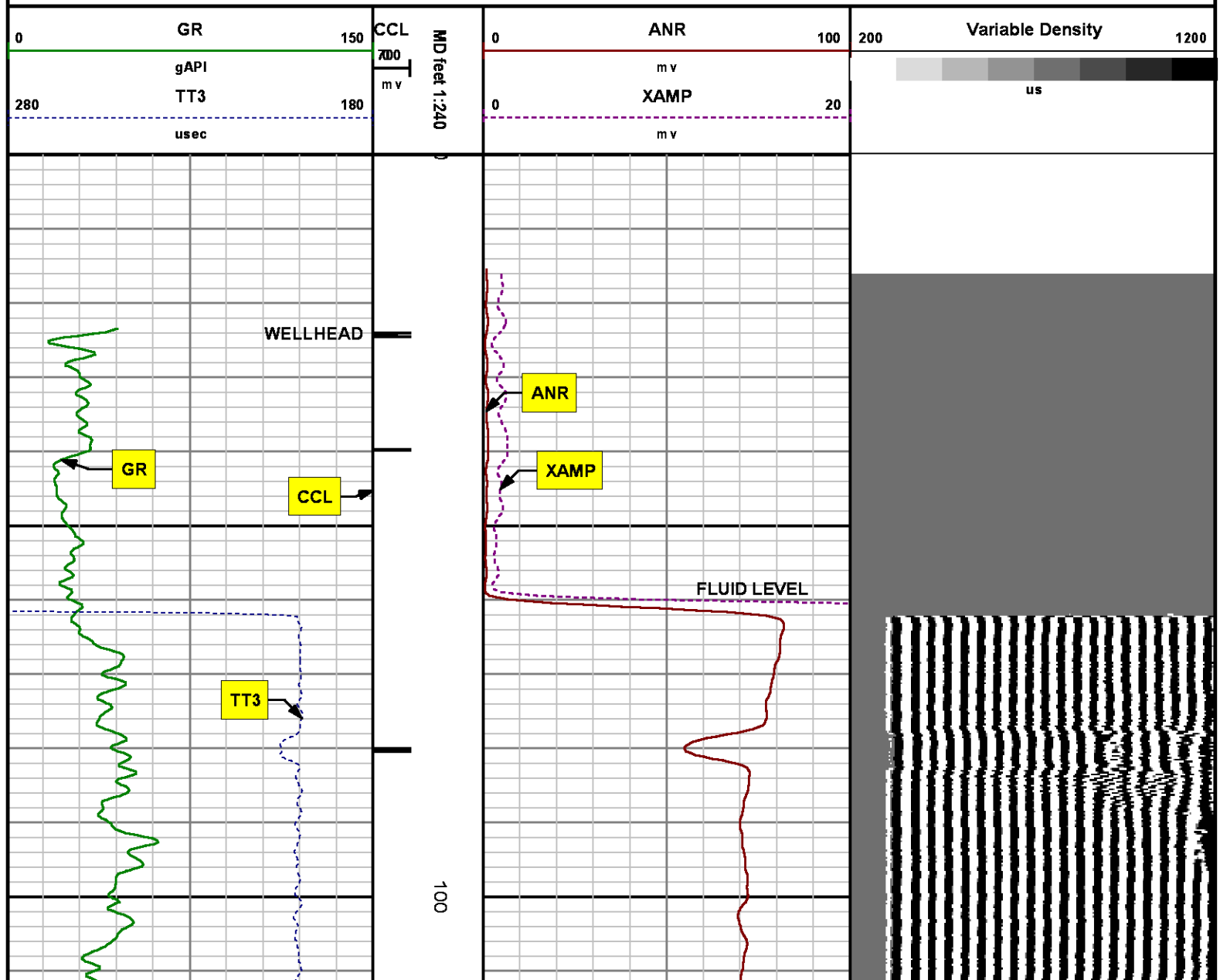
Well : PA 313-6

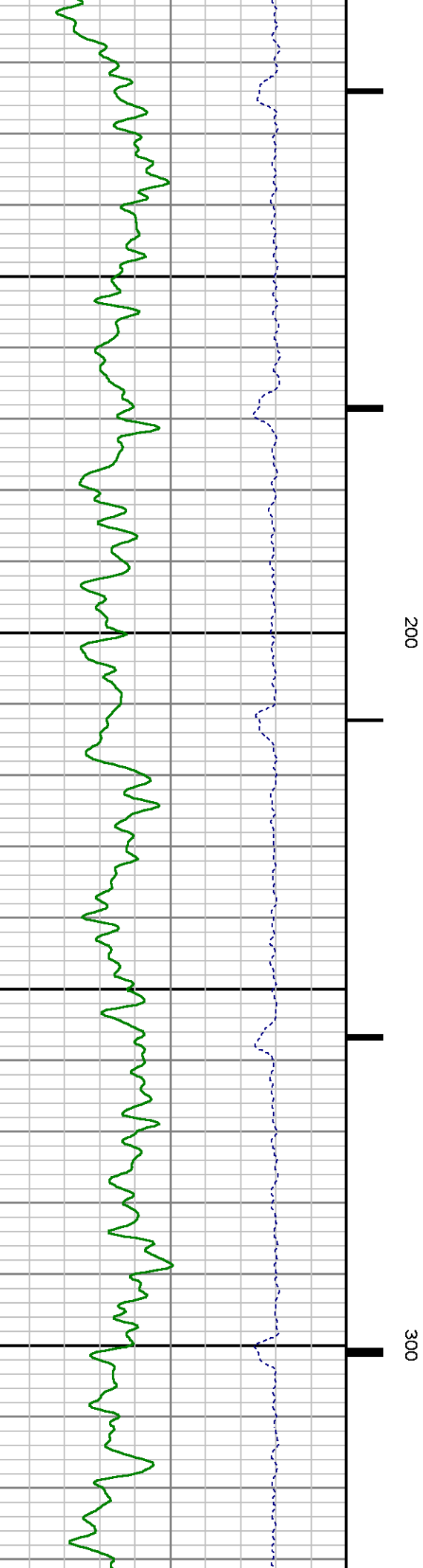
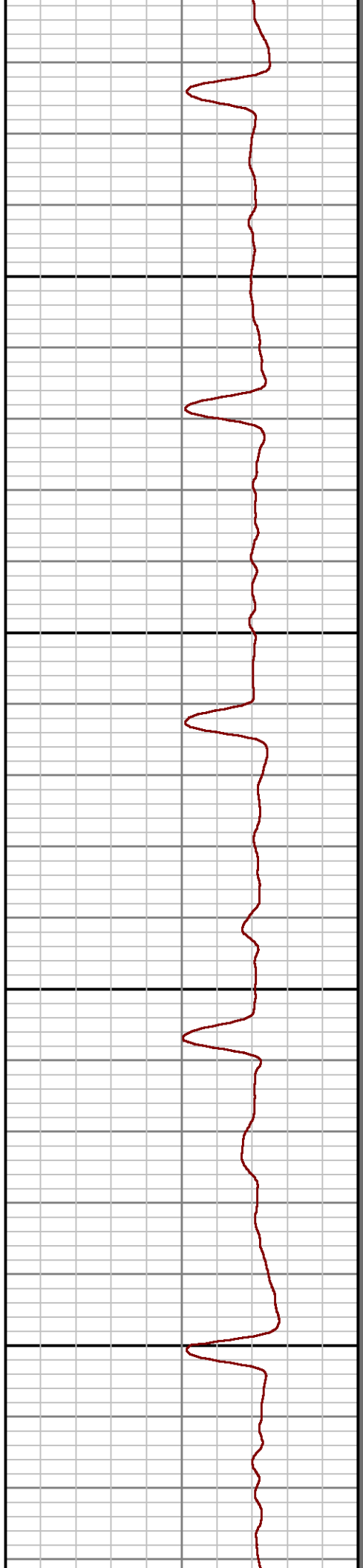
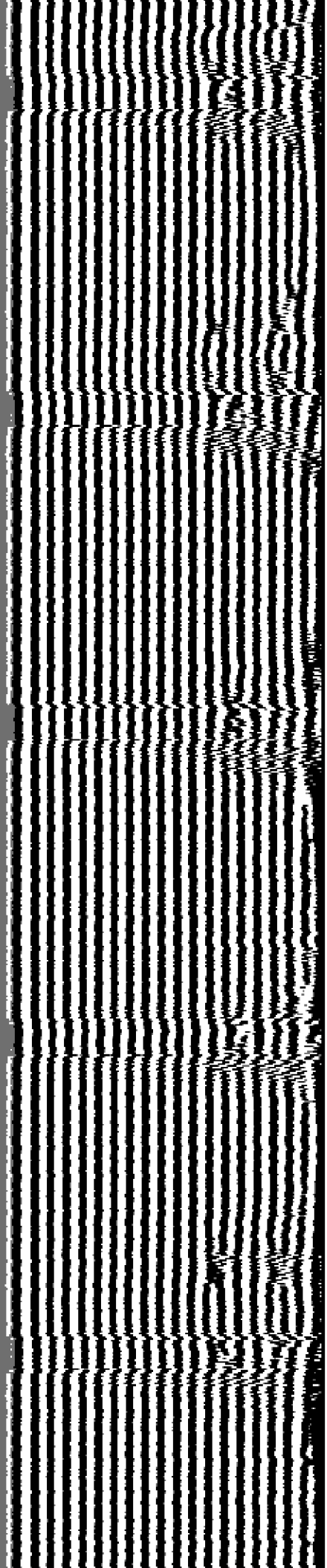
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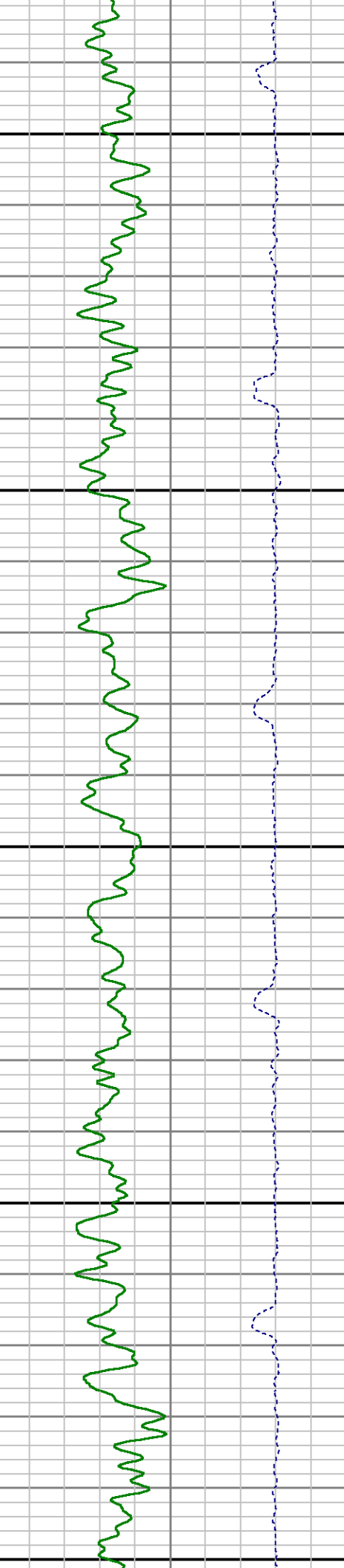
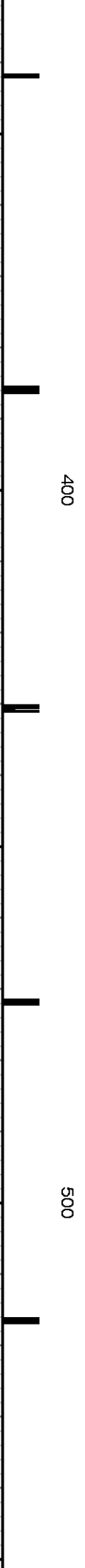
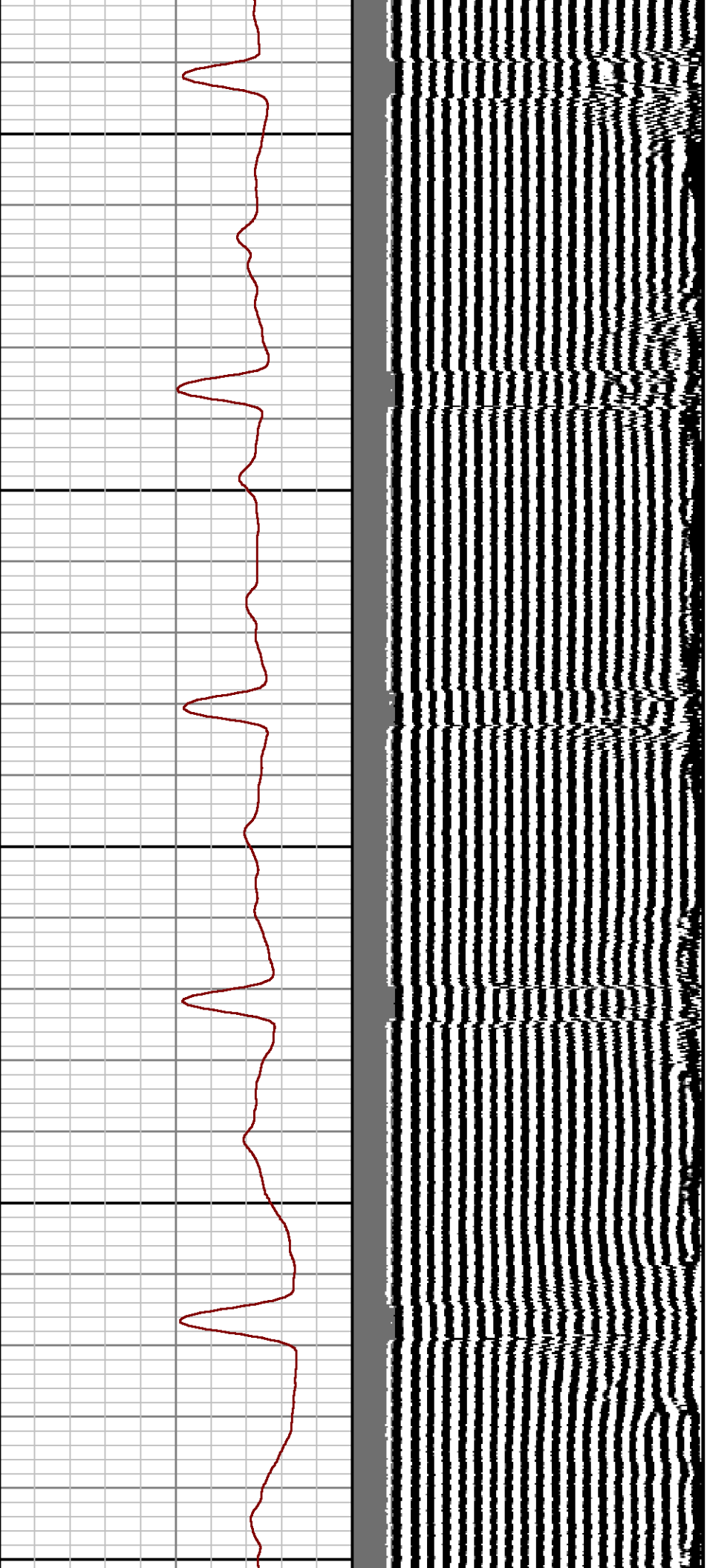
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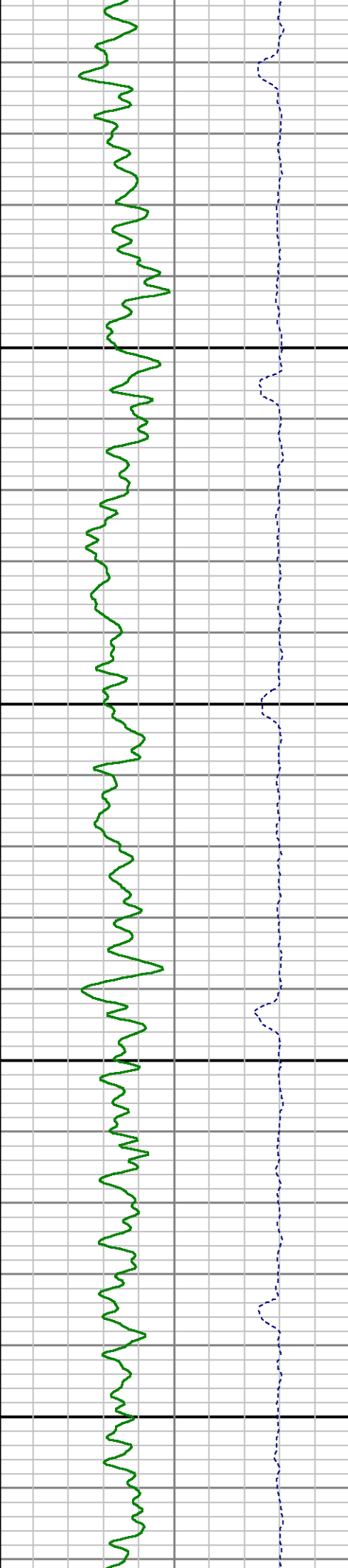
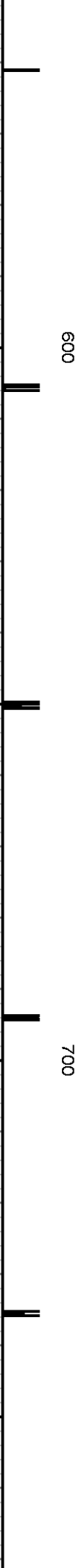
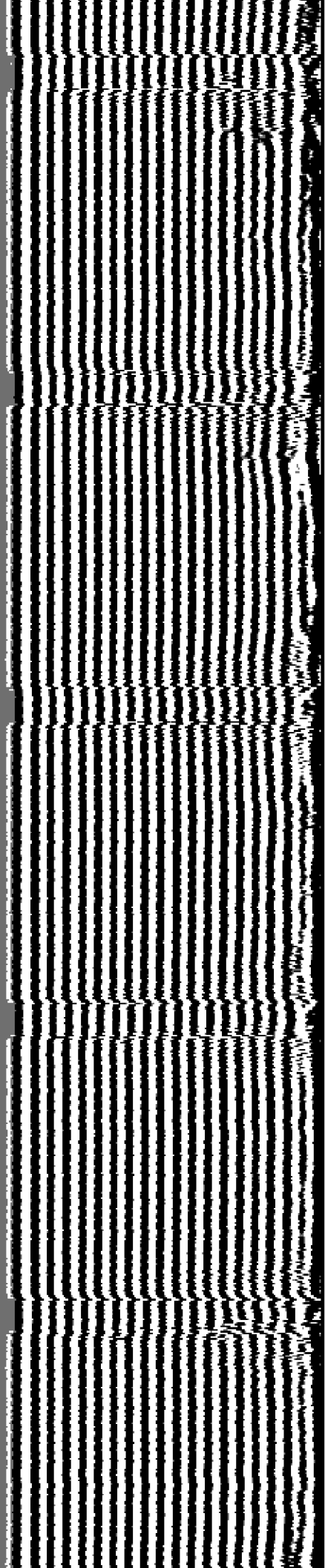
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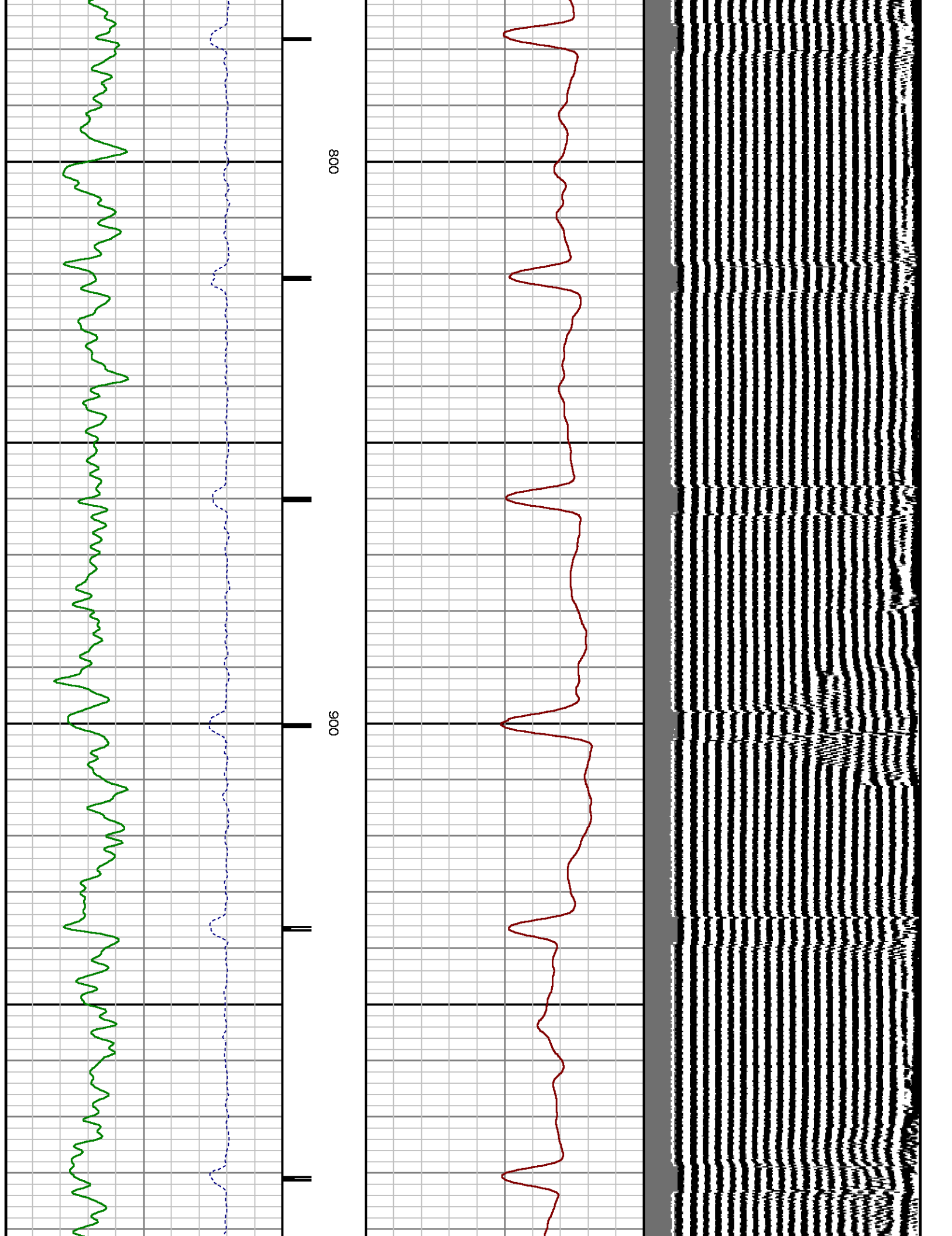
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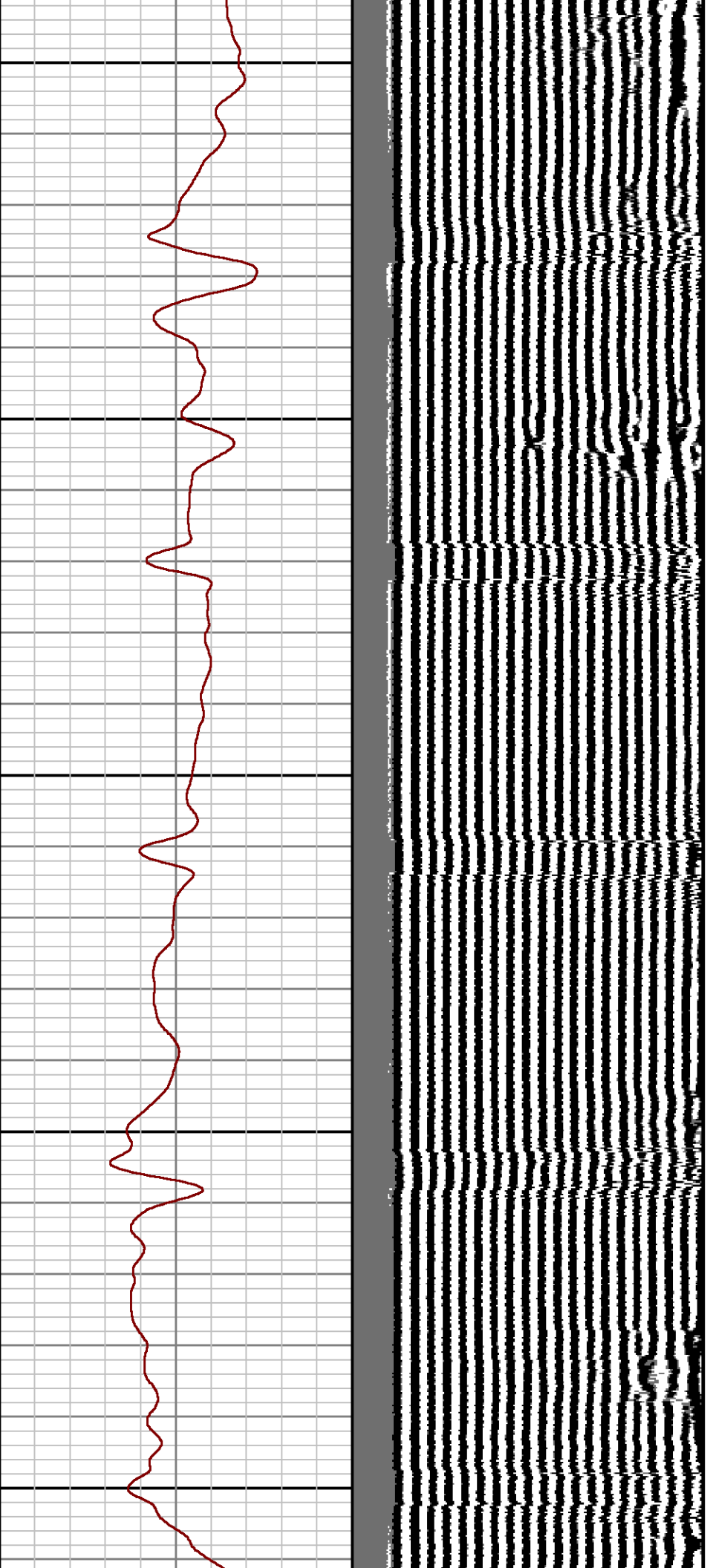








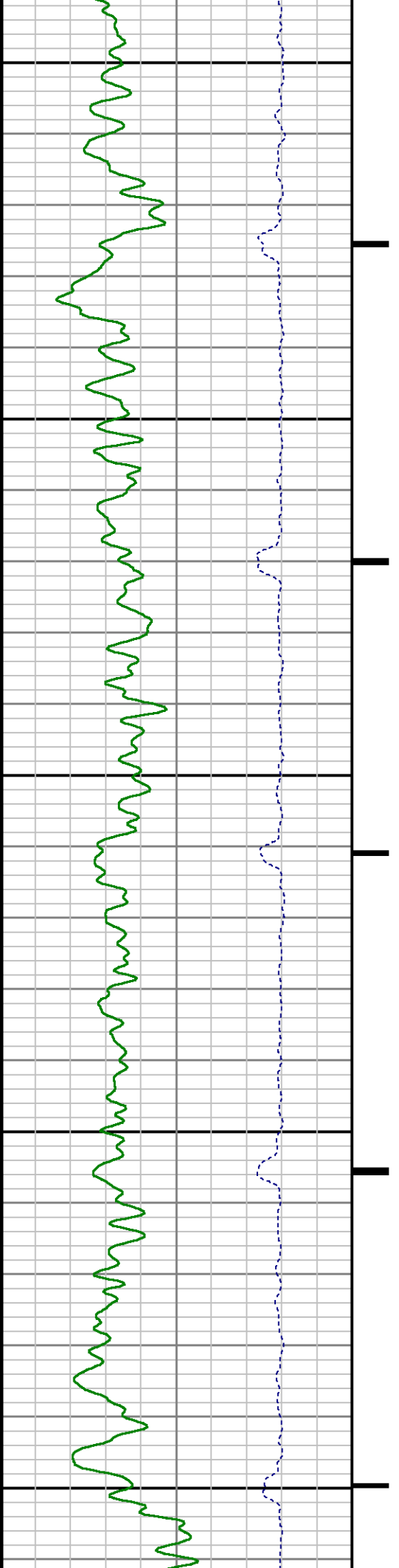


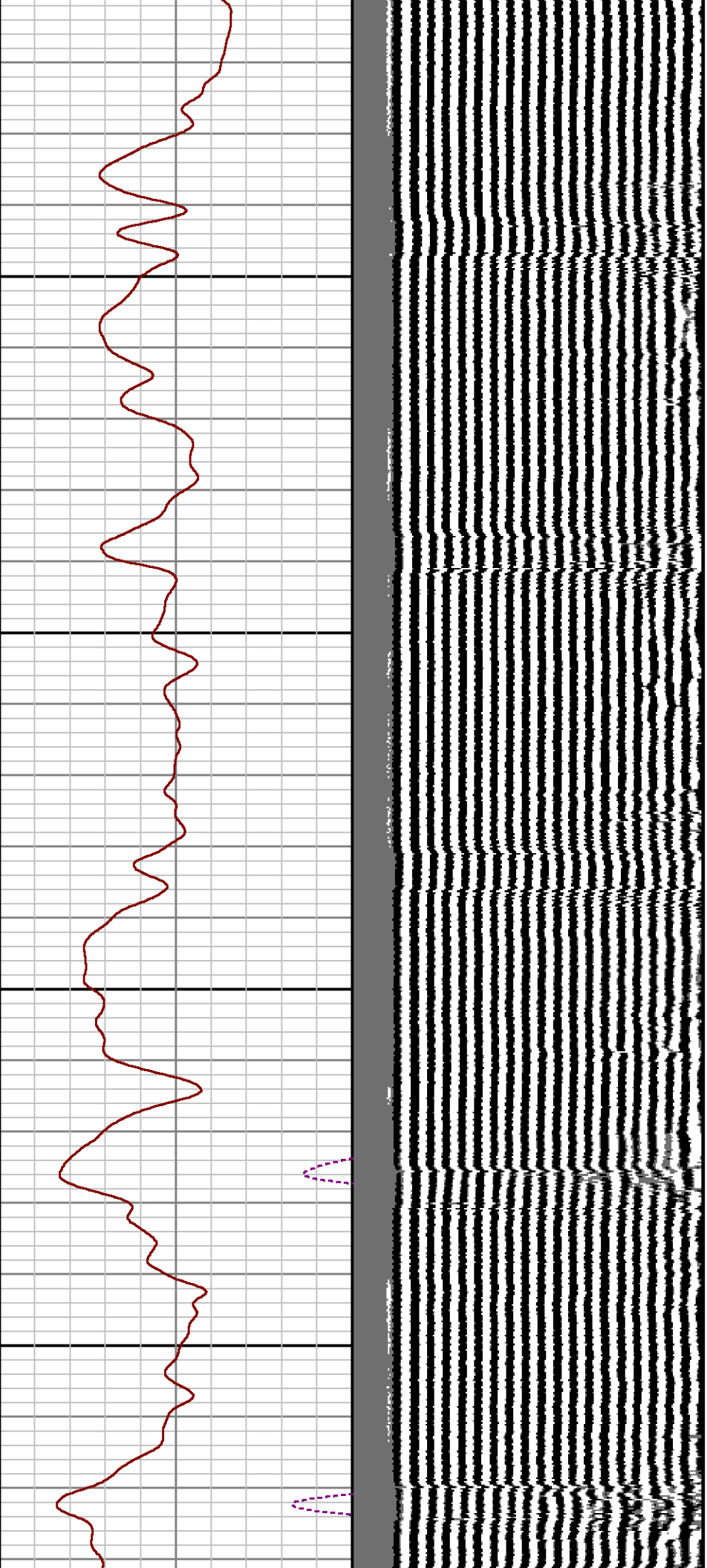


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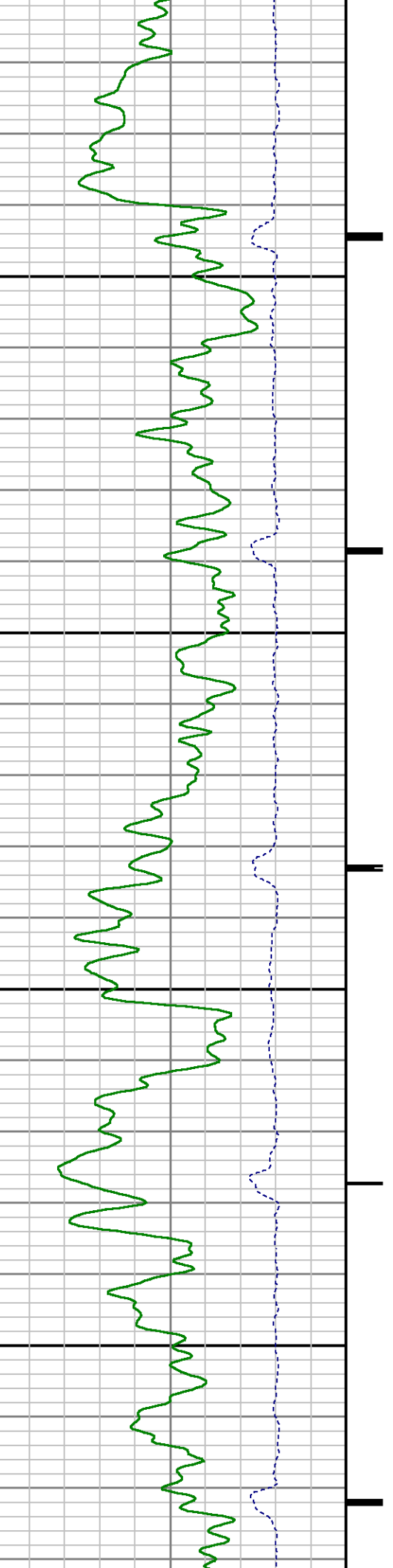
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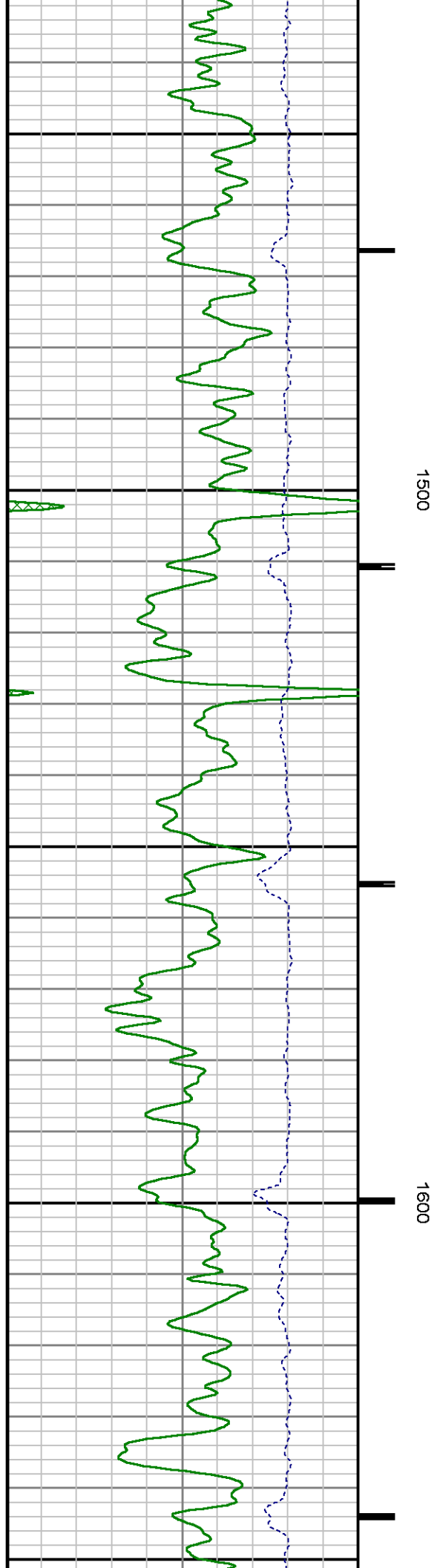
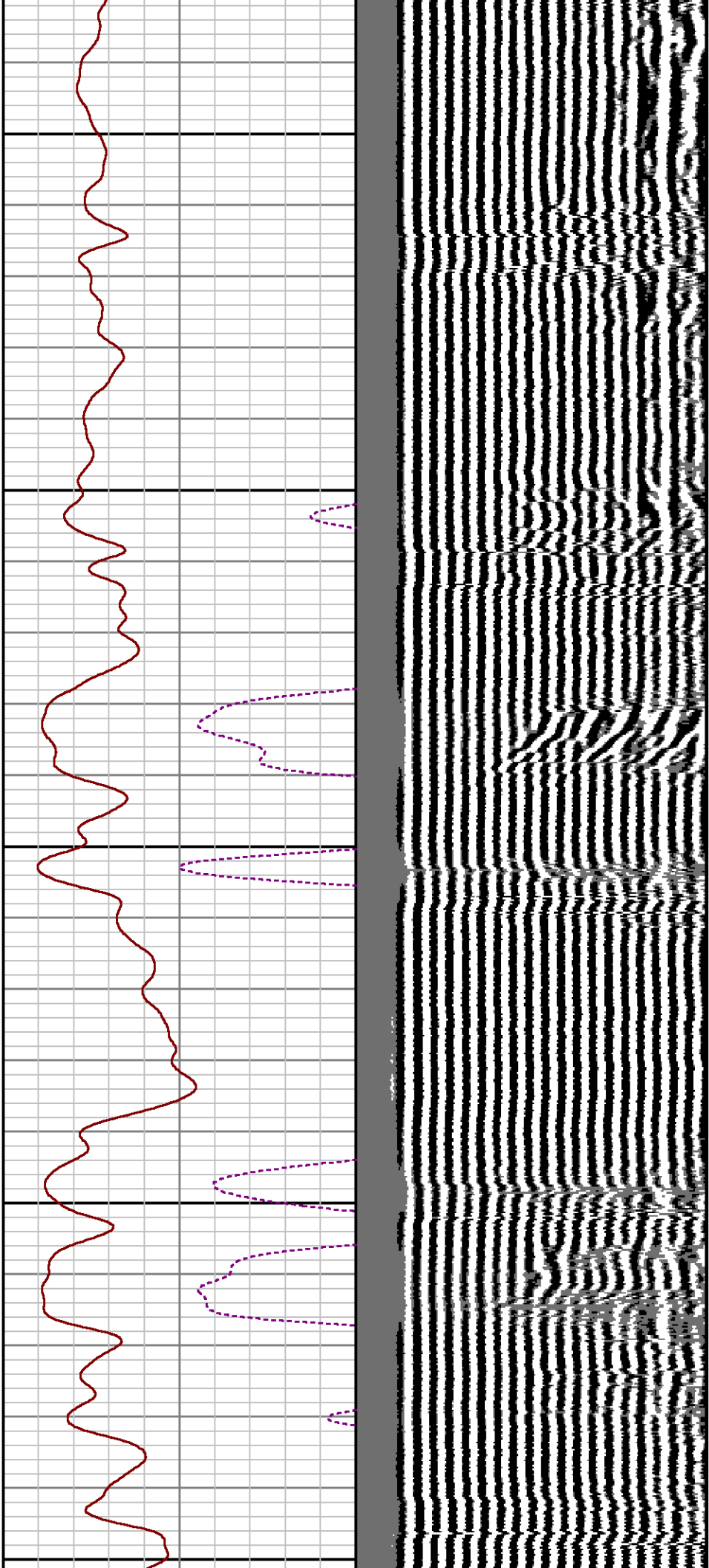


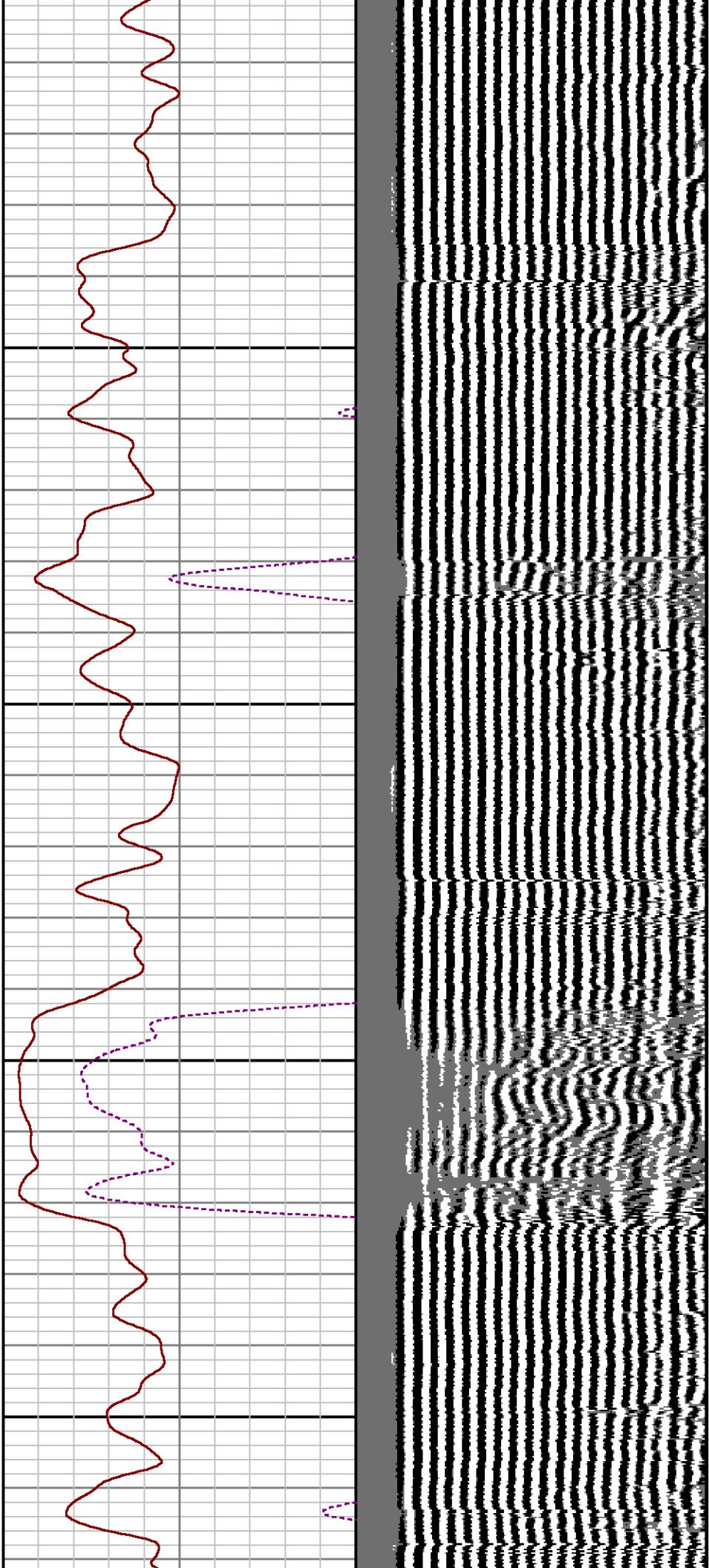


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1400

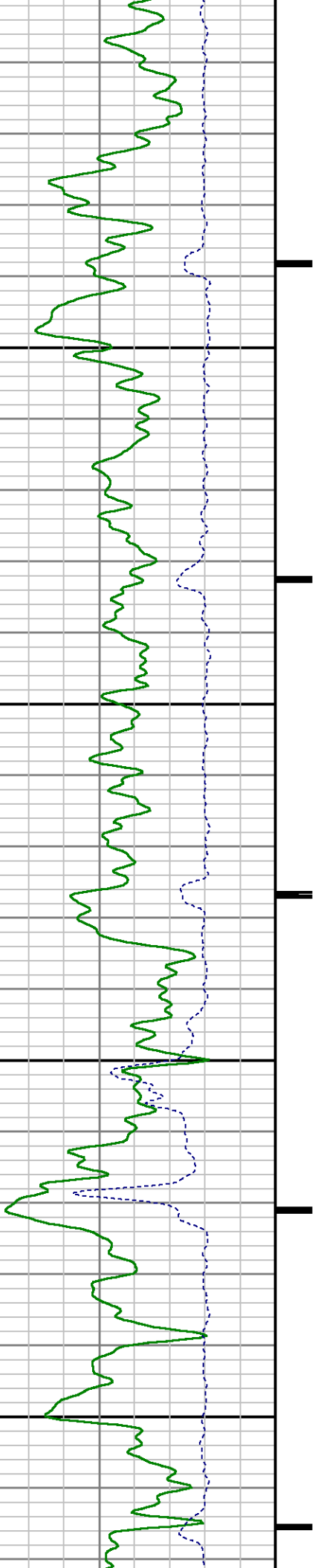


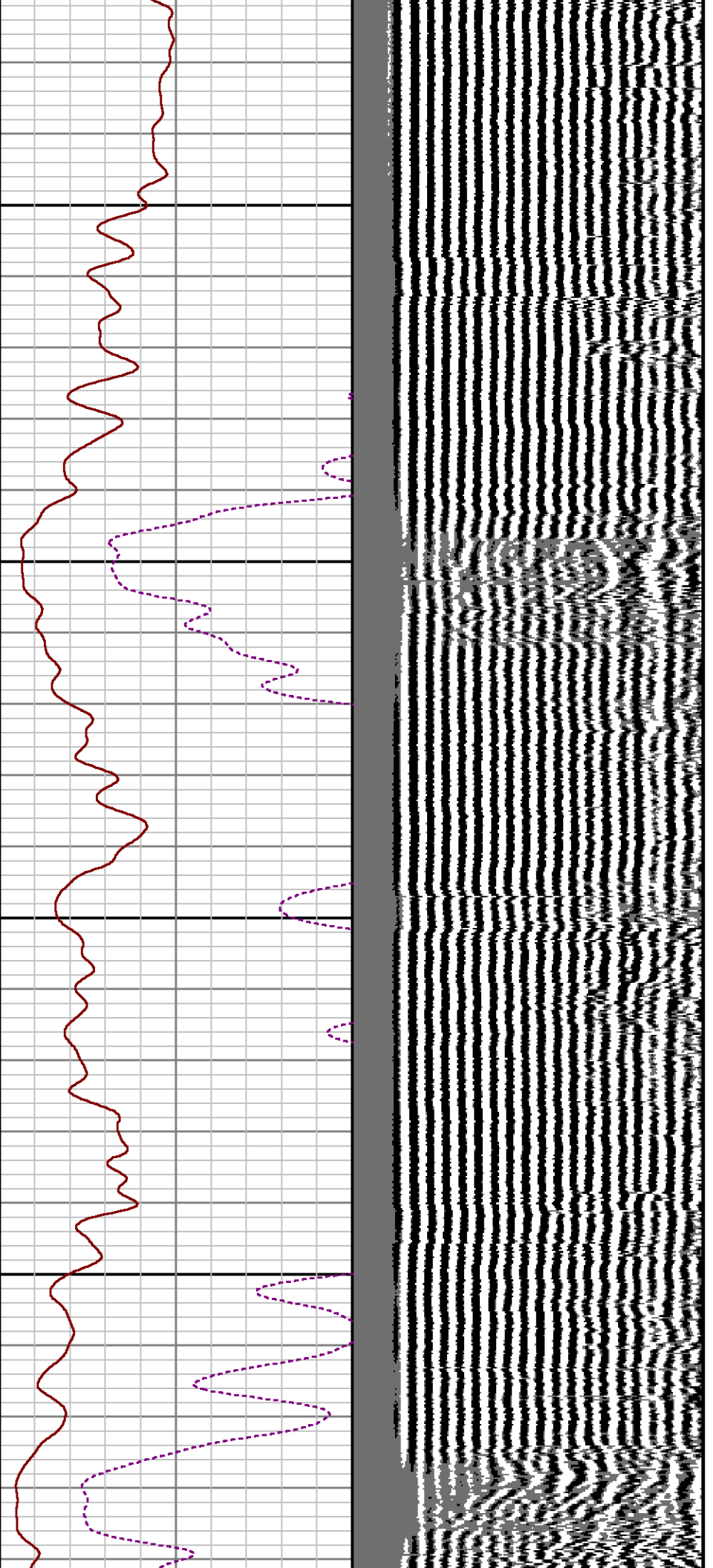




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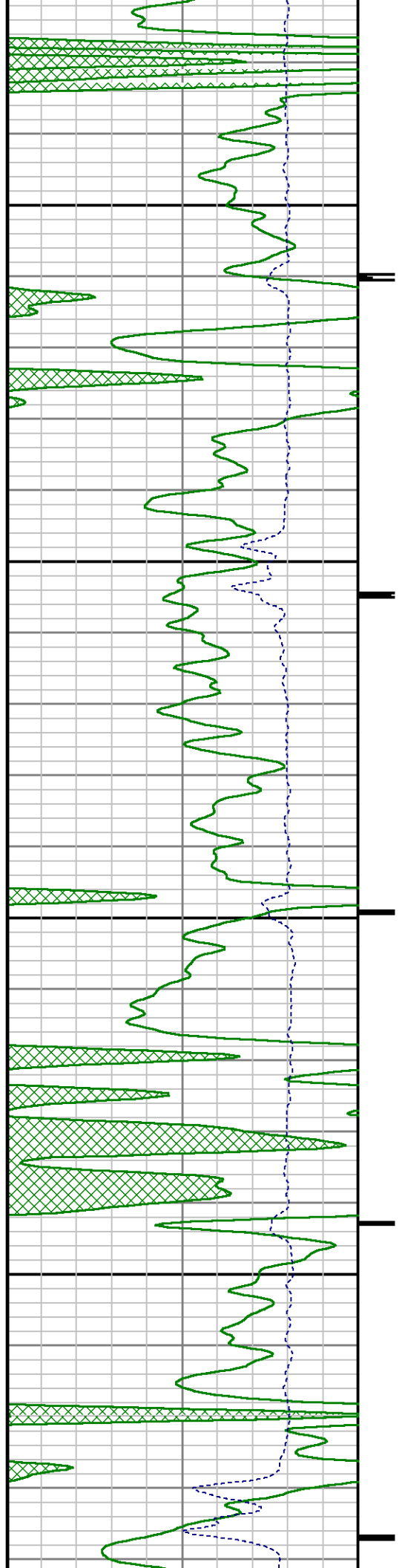
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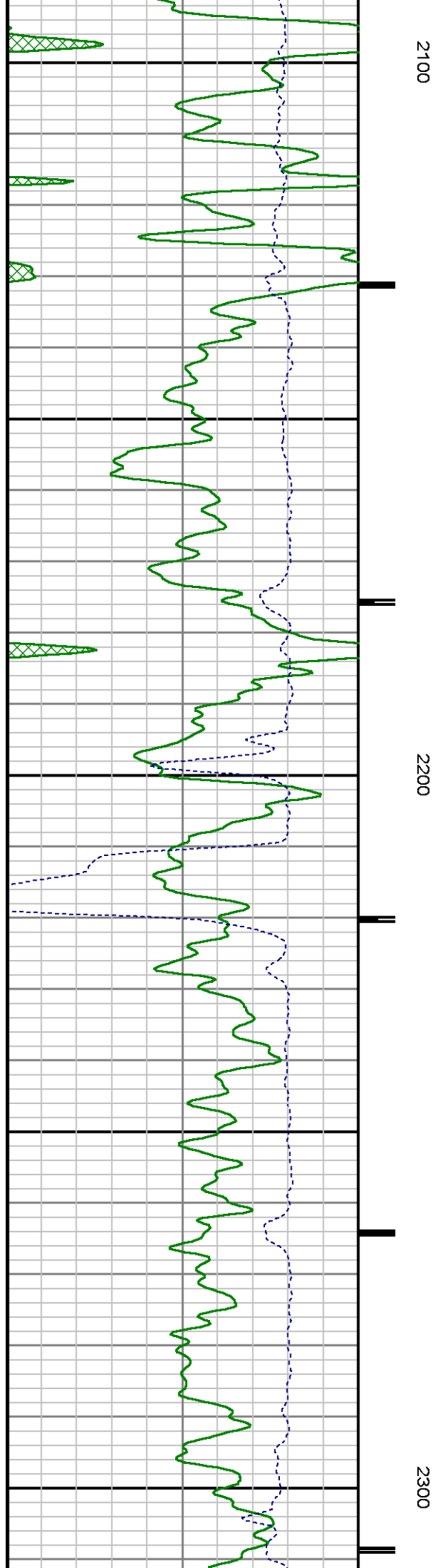
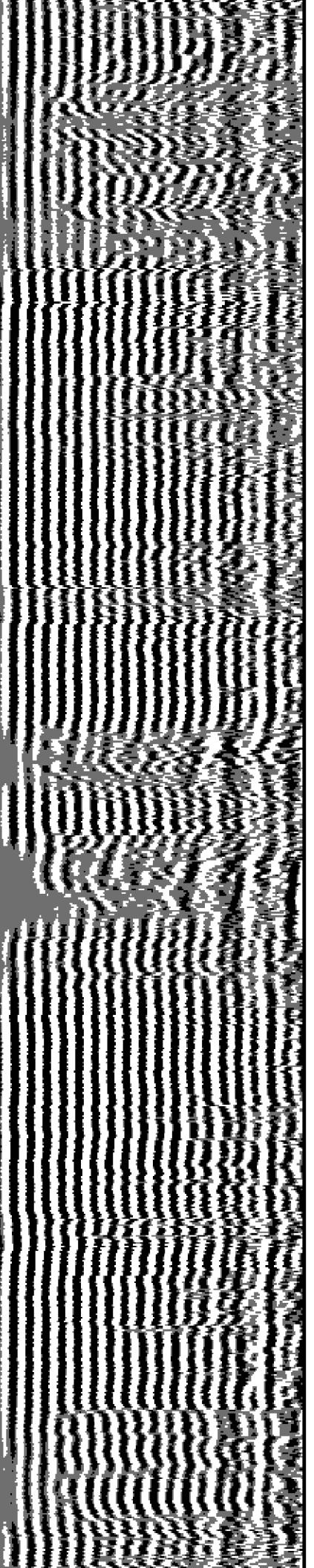
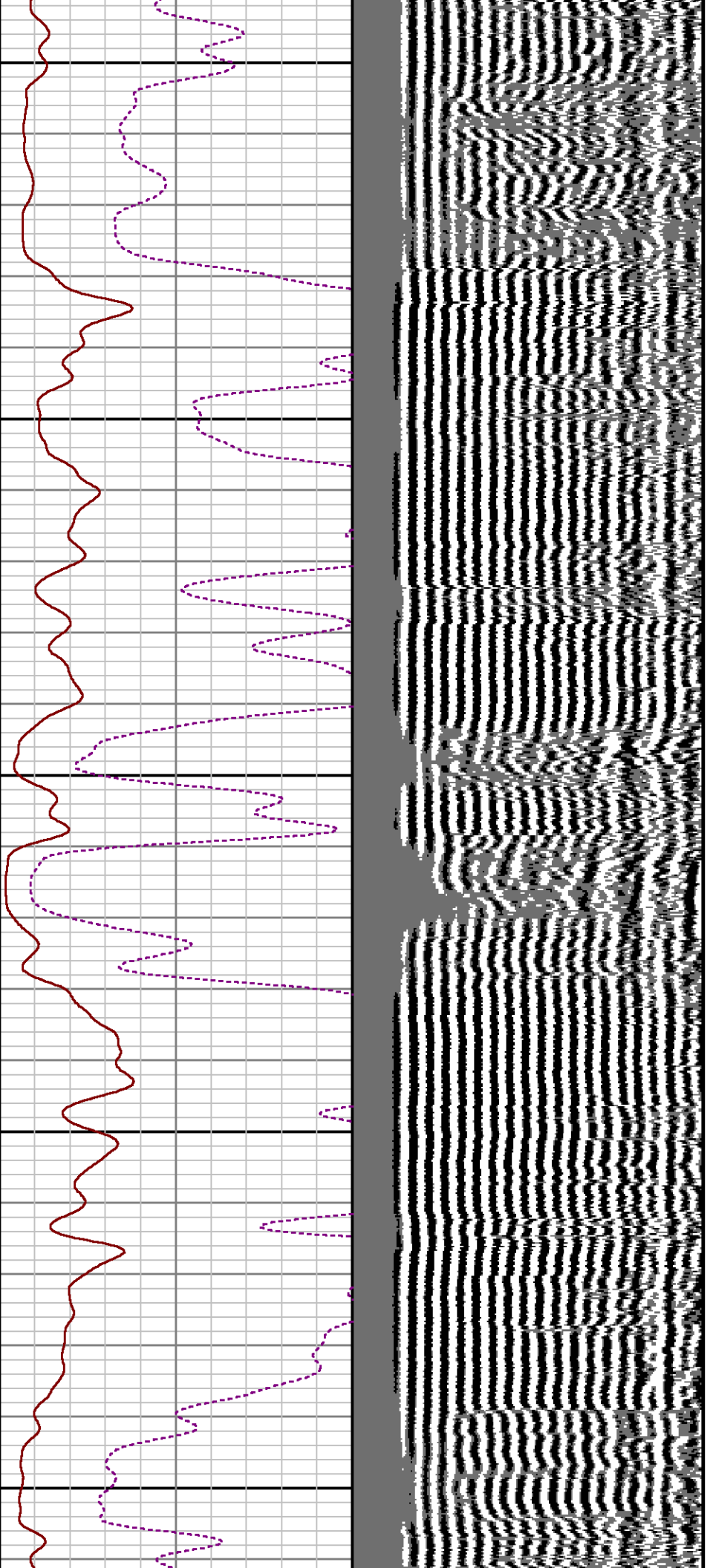


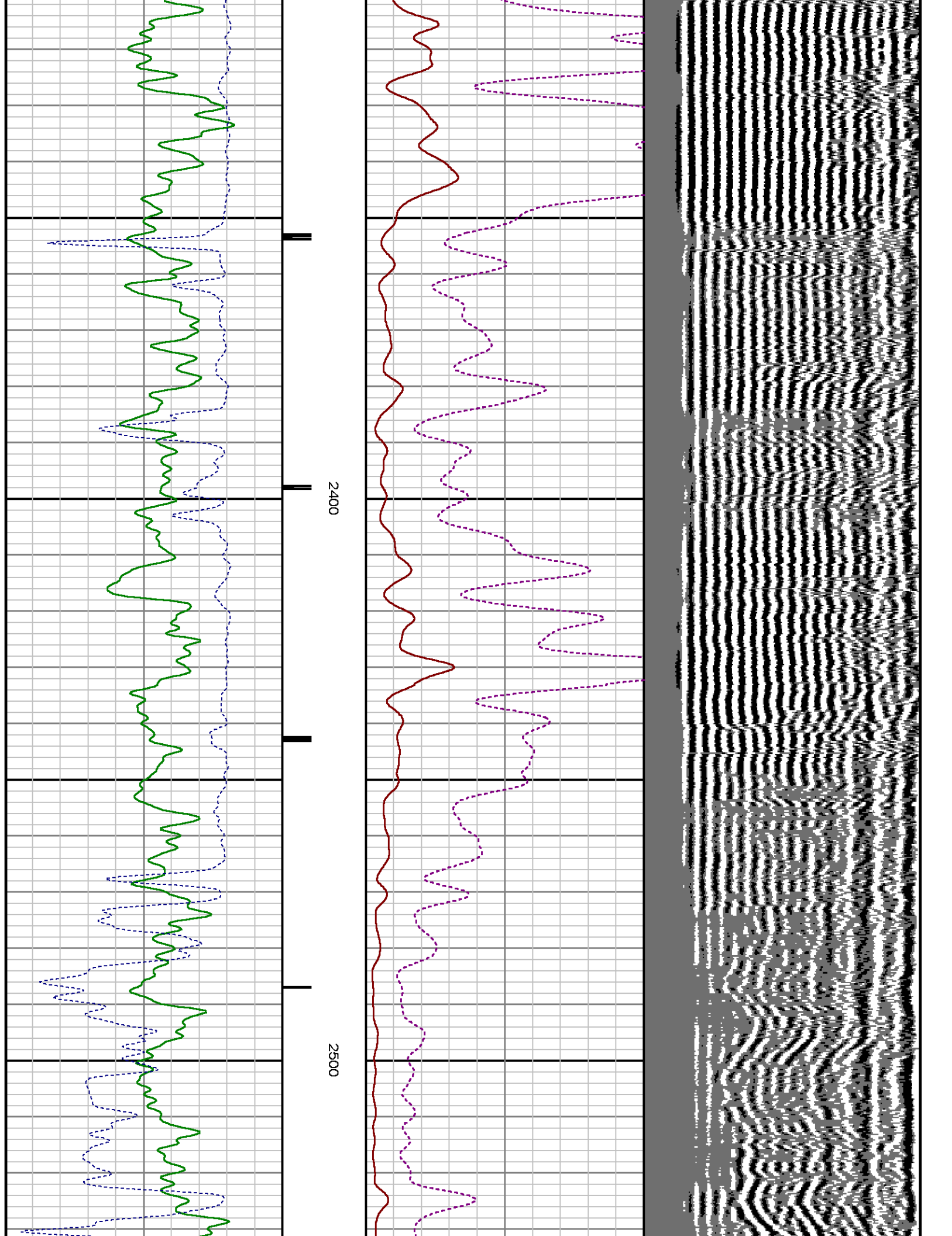


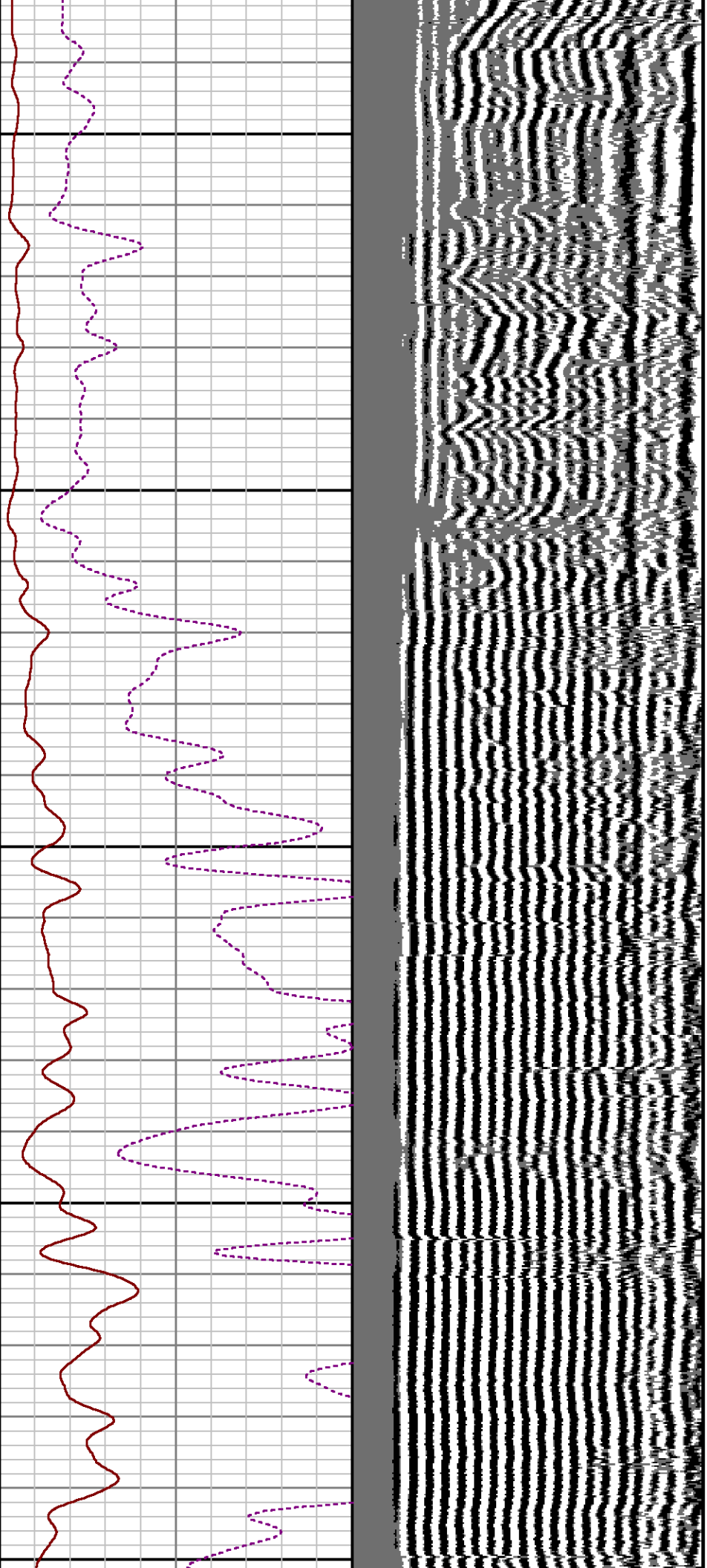
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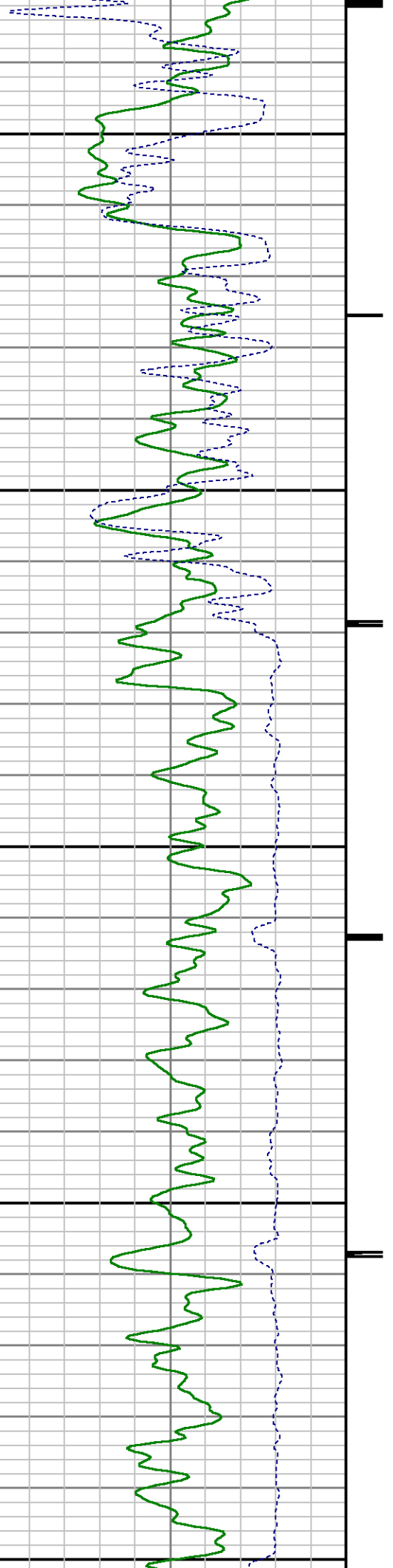


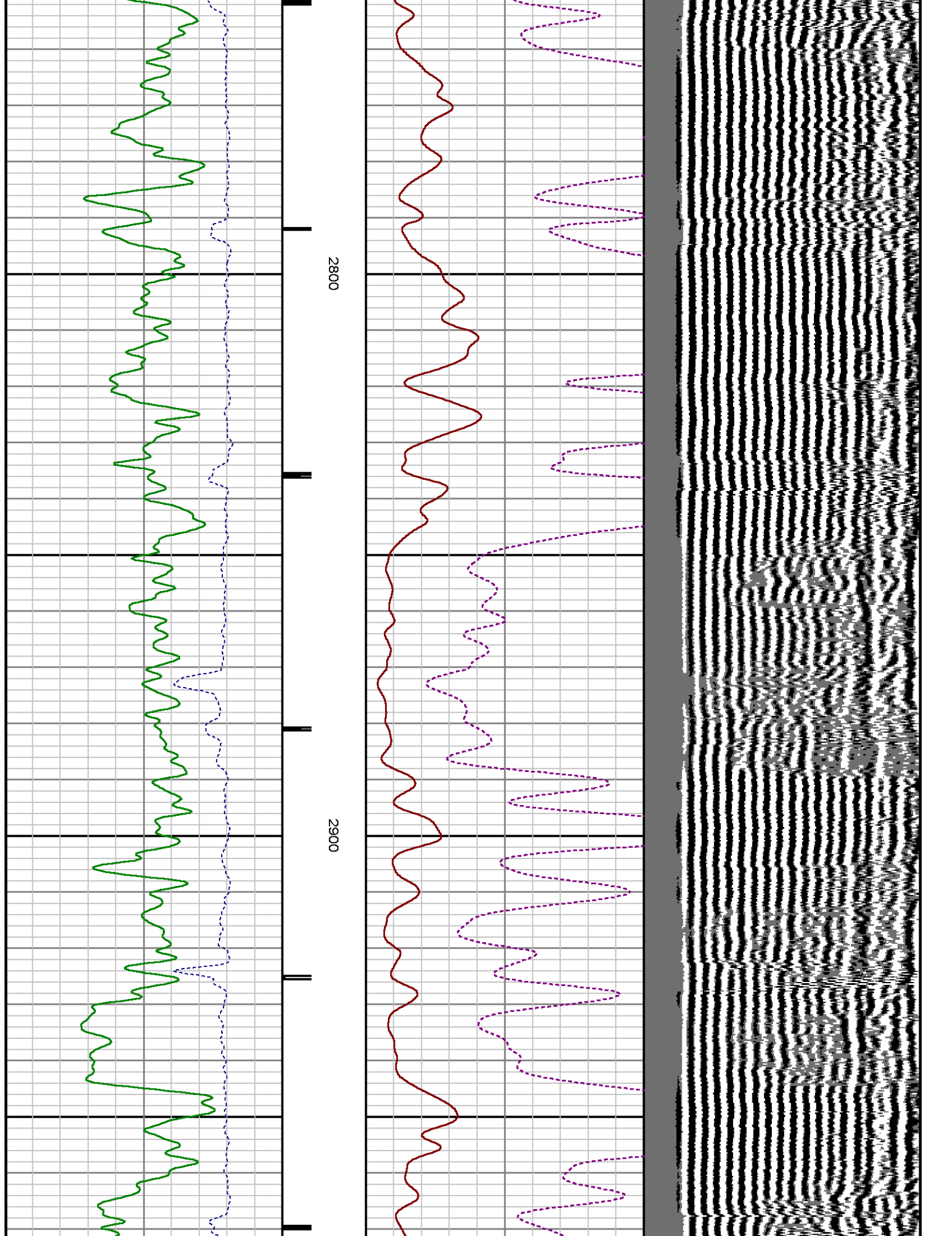


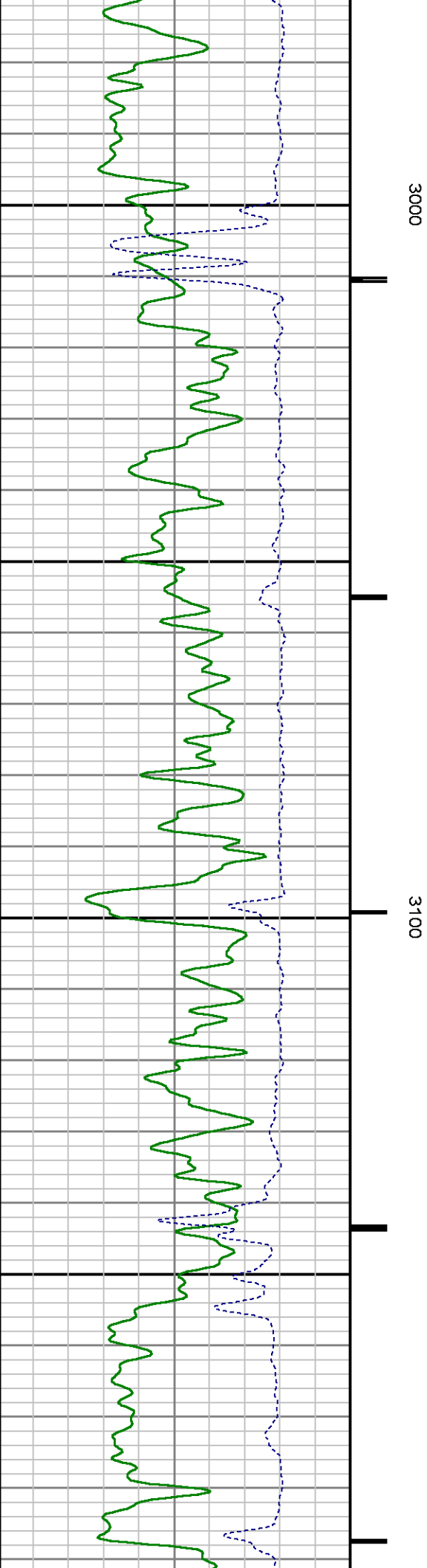
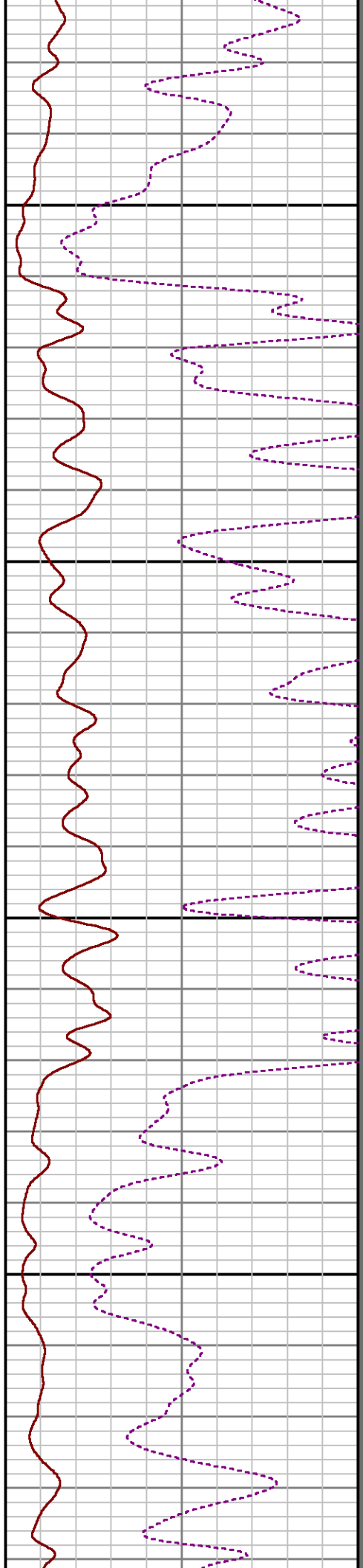
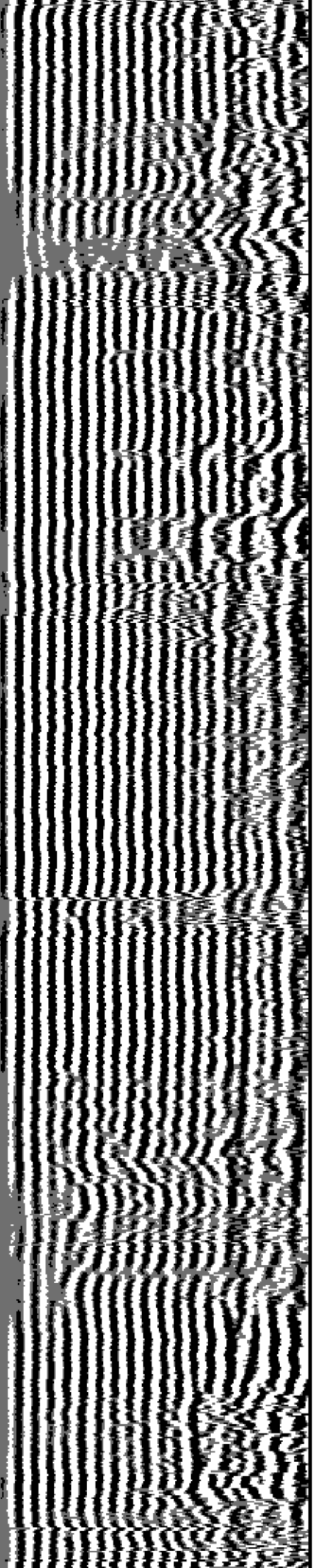


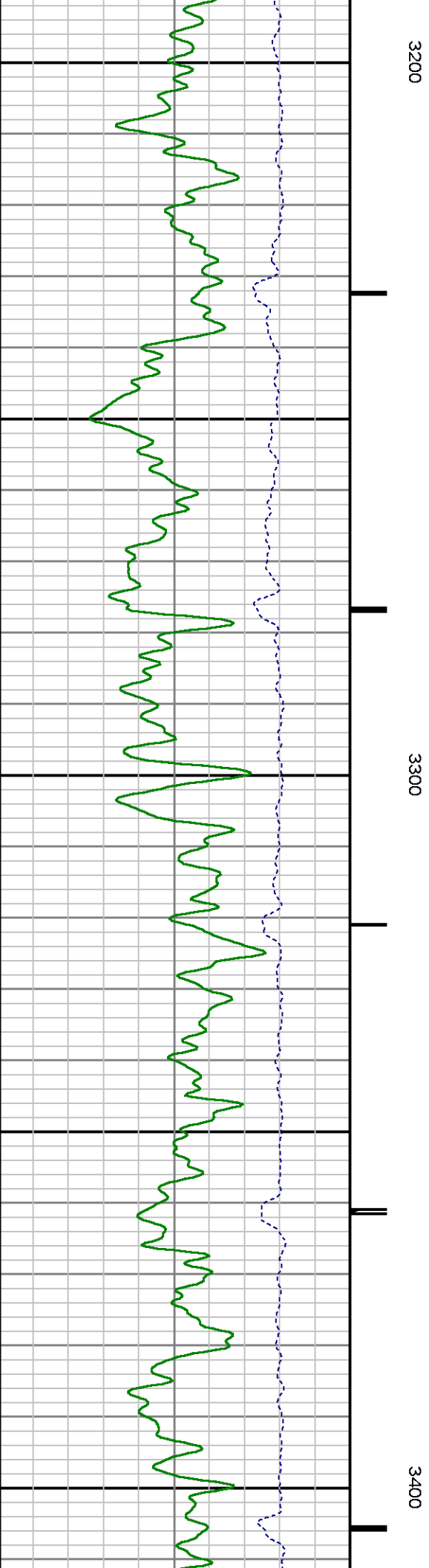
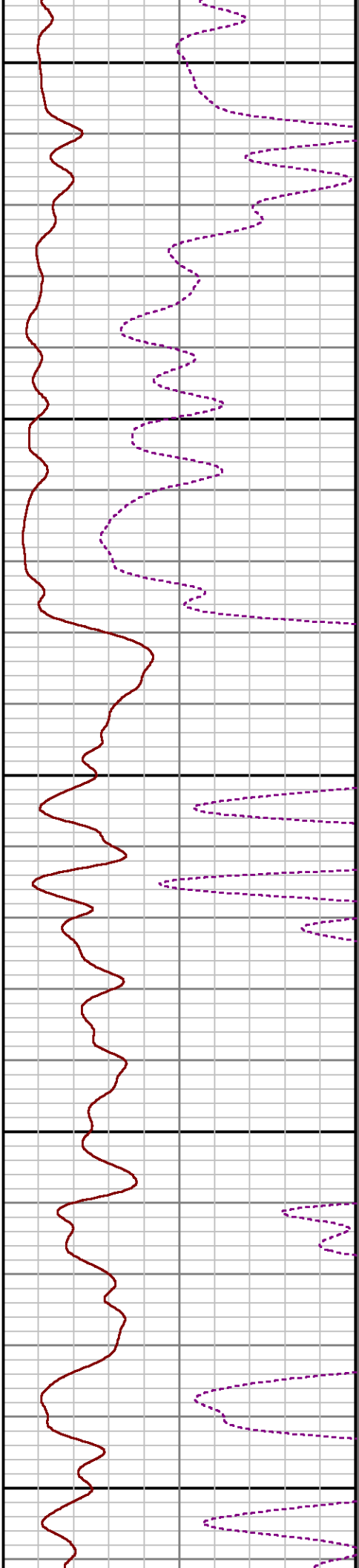
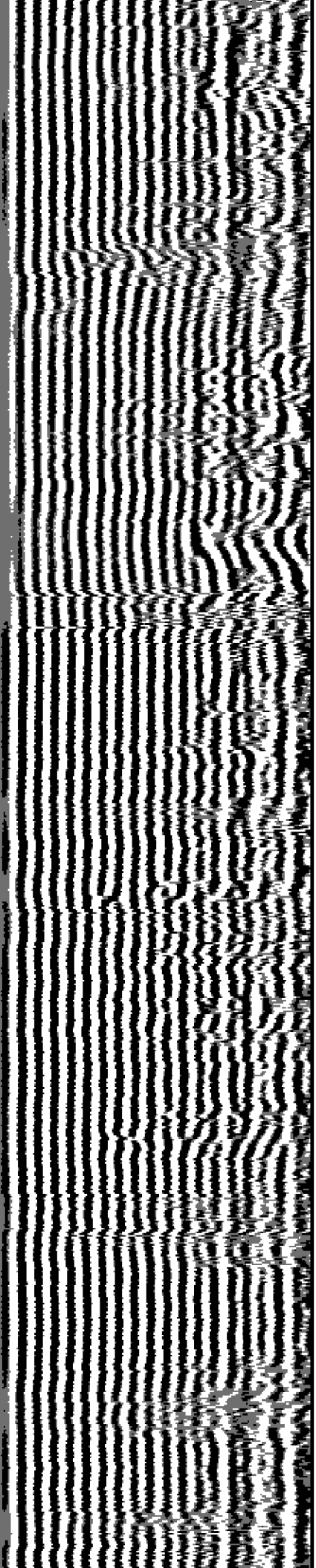
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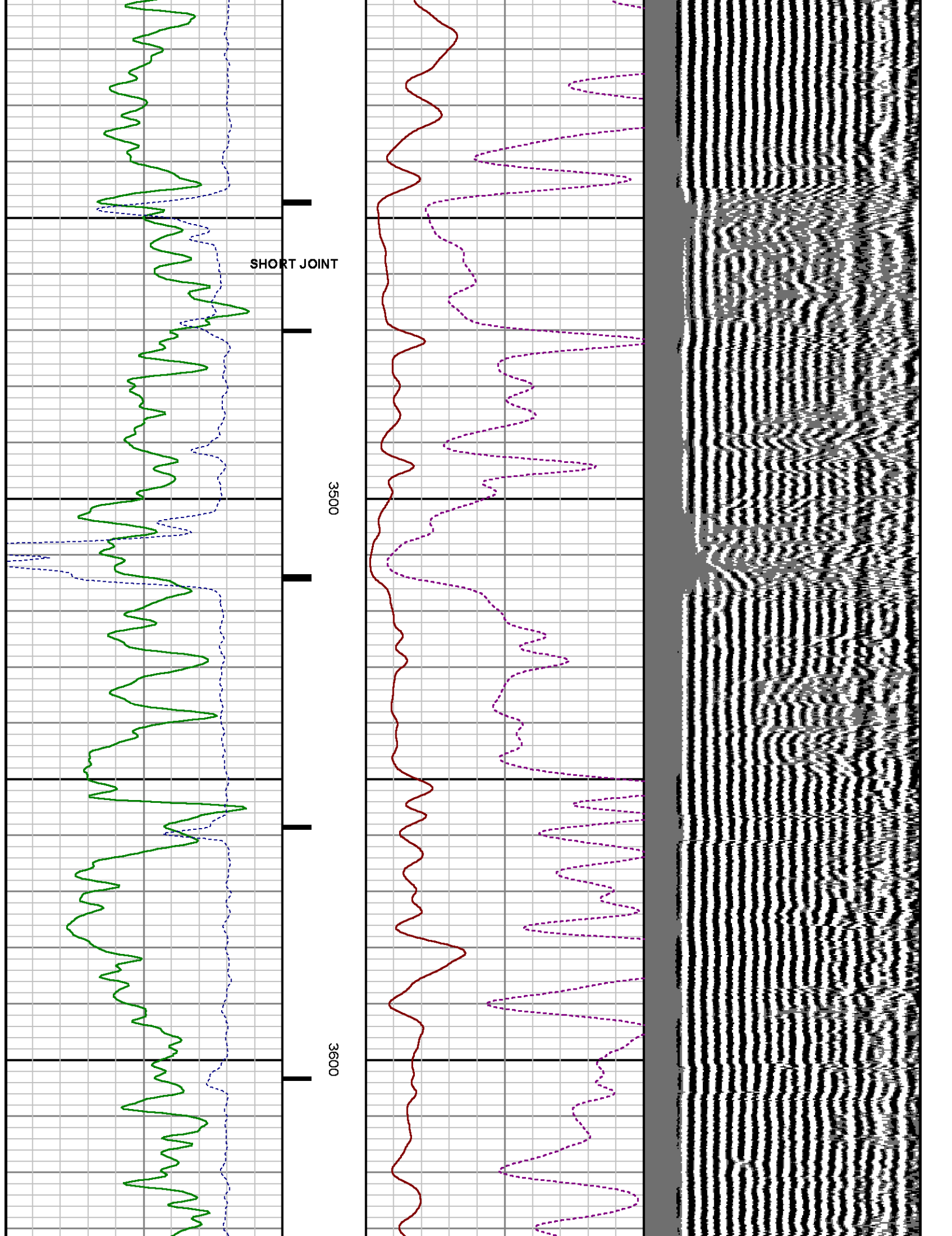
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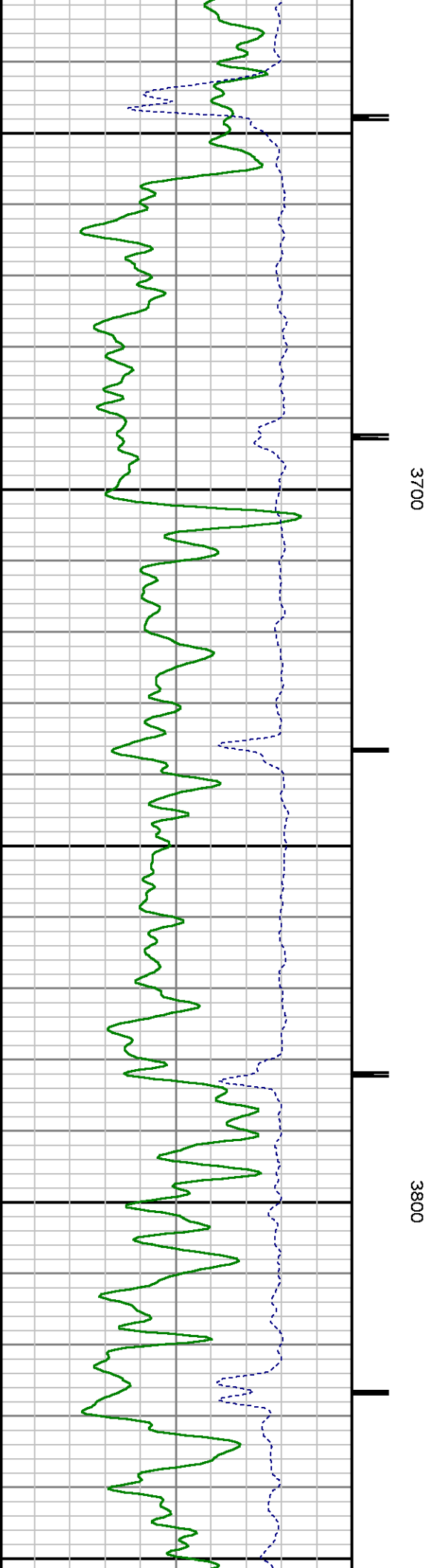
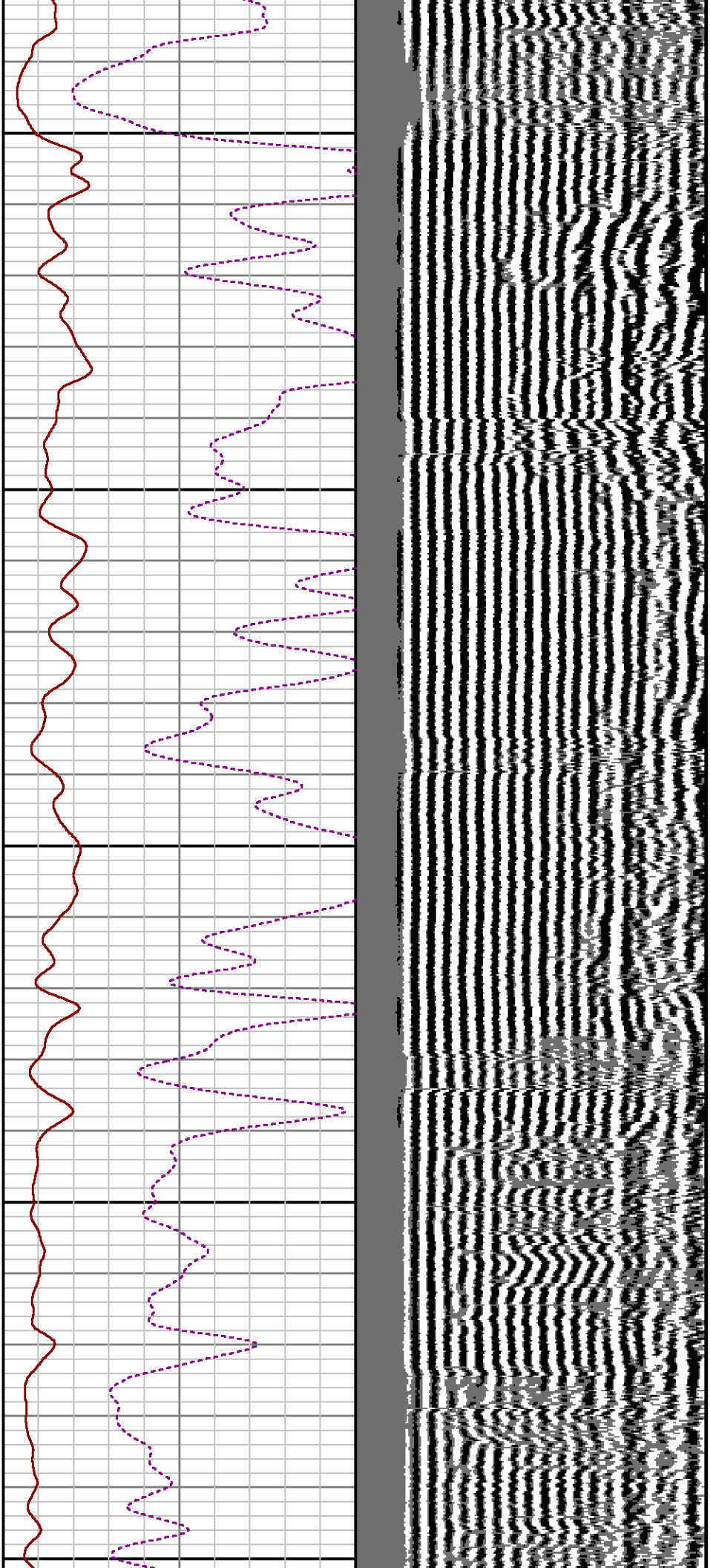


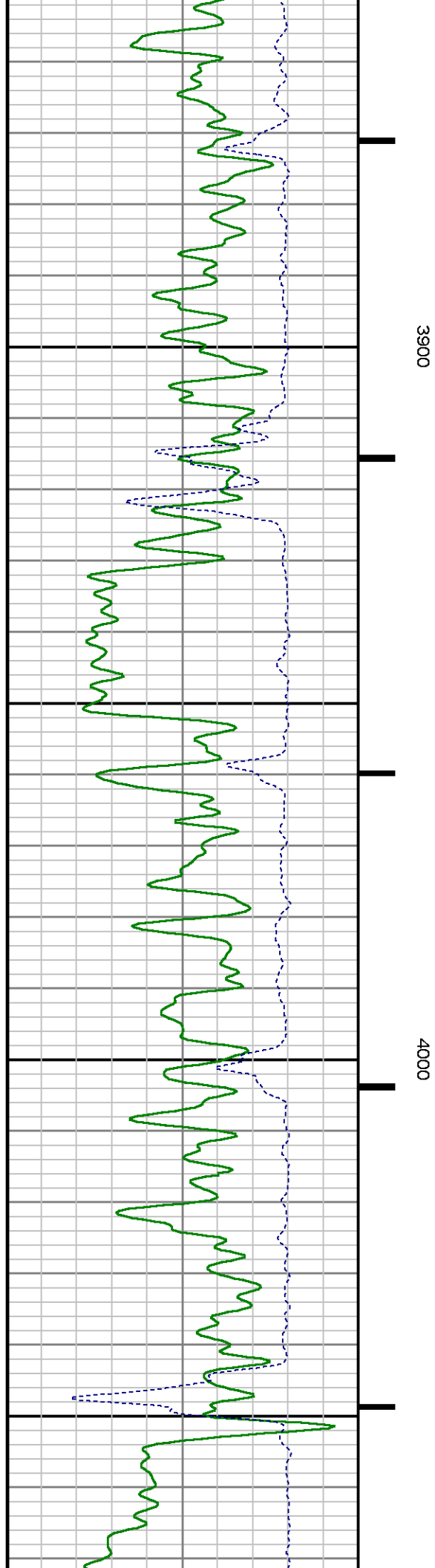
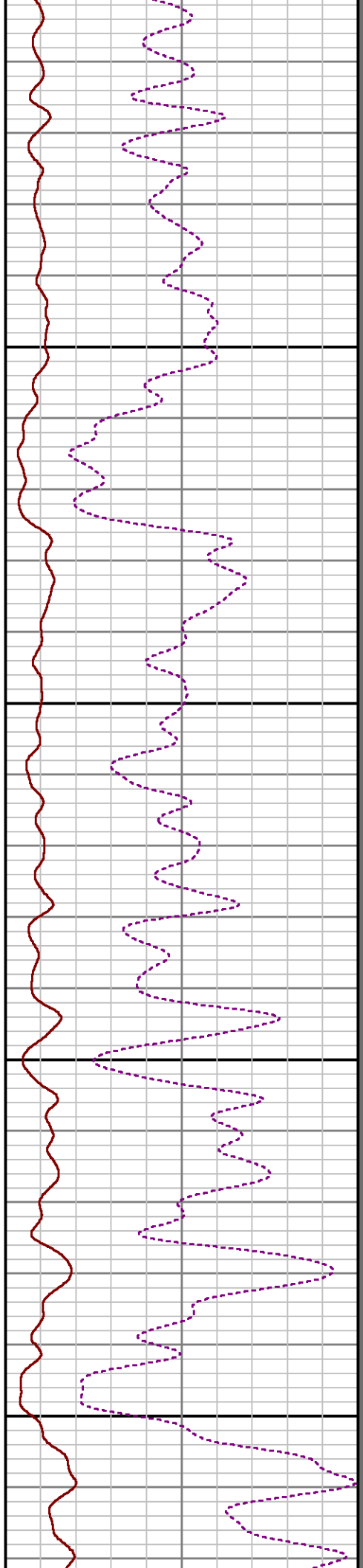
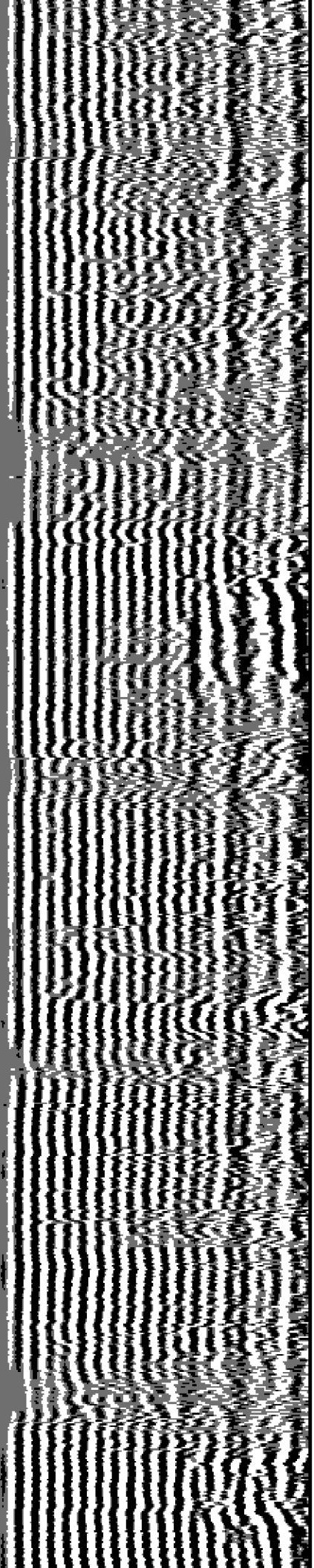


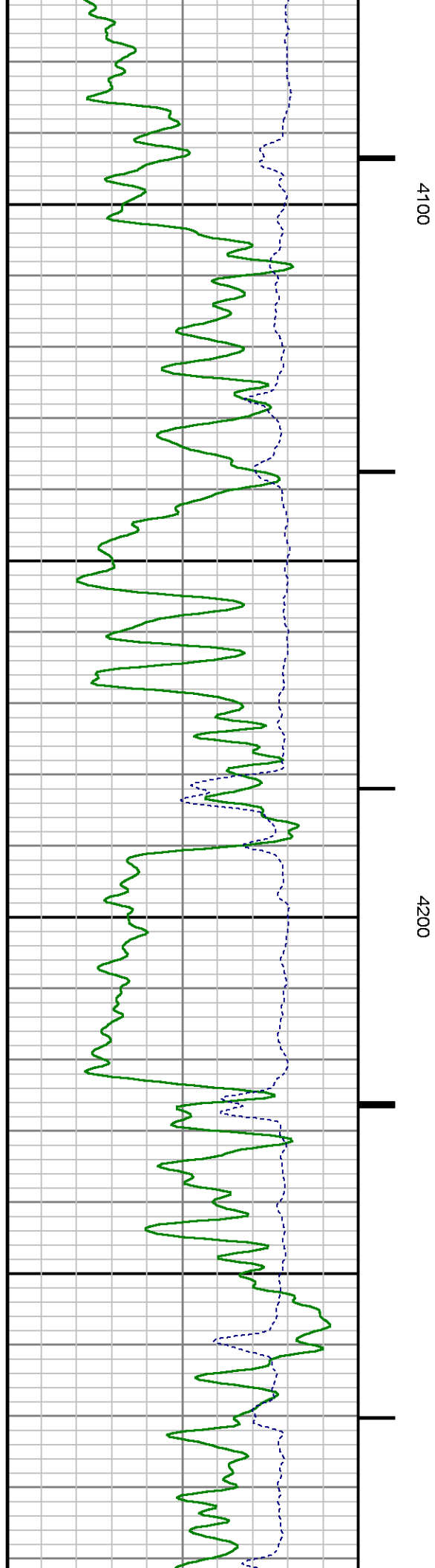
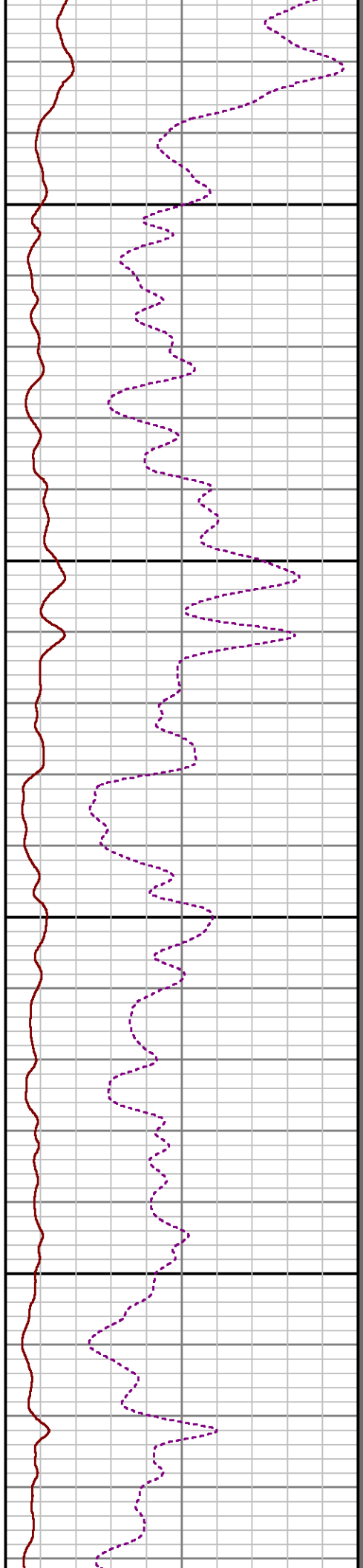
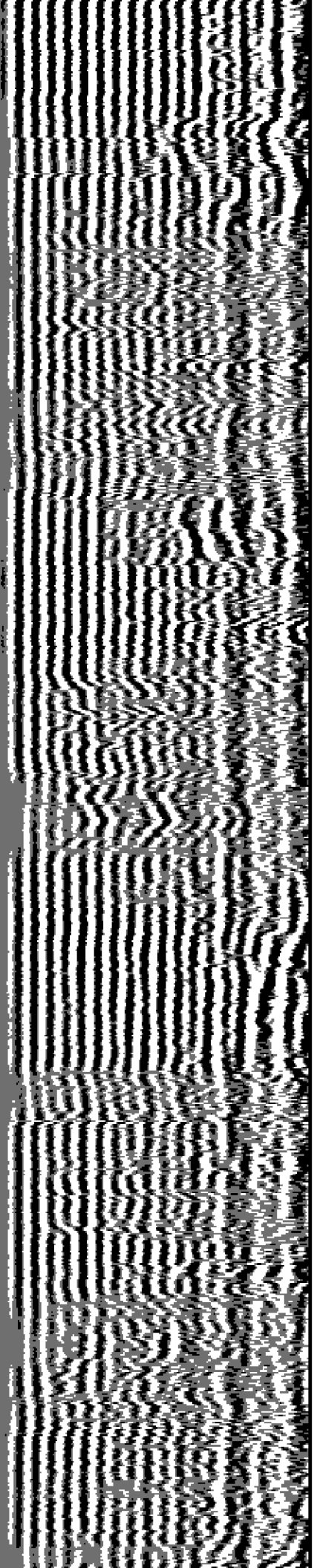


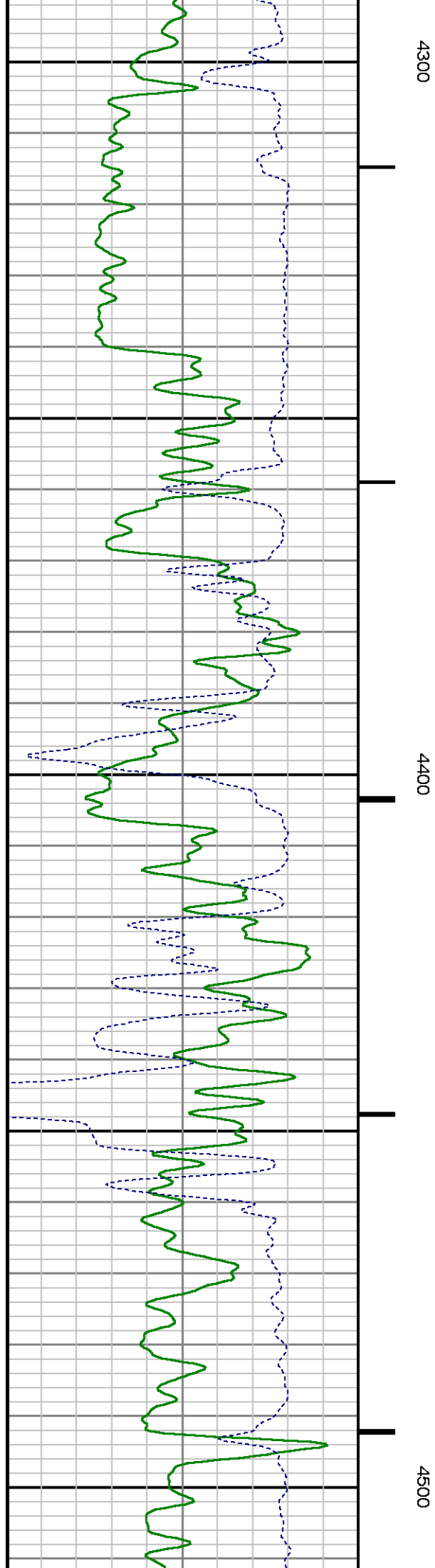
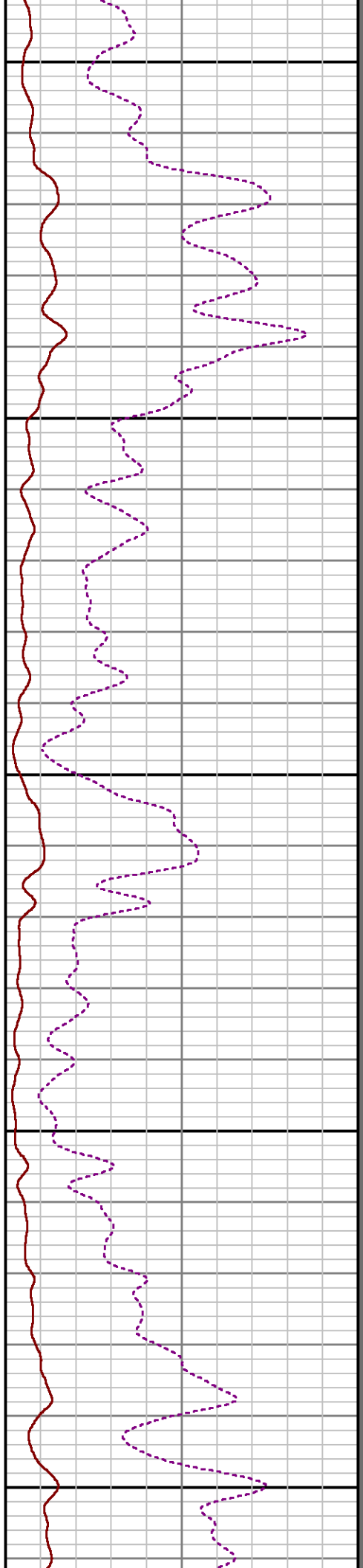
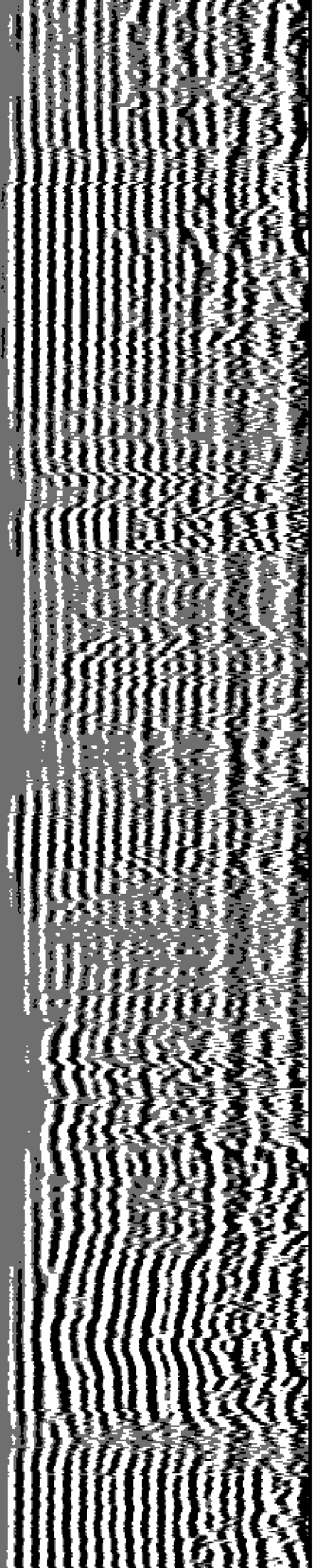


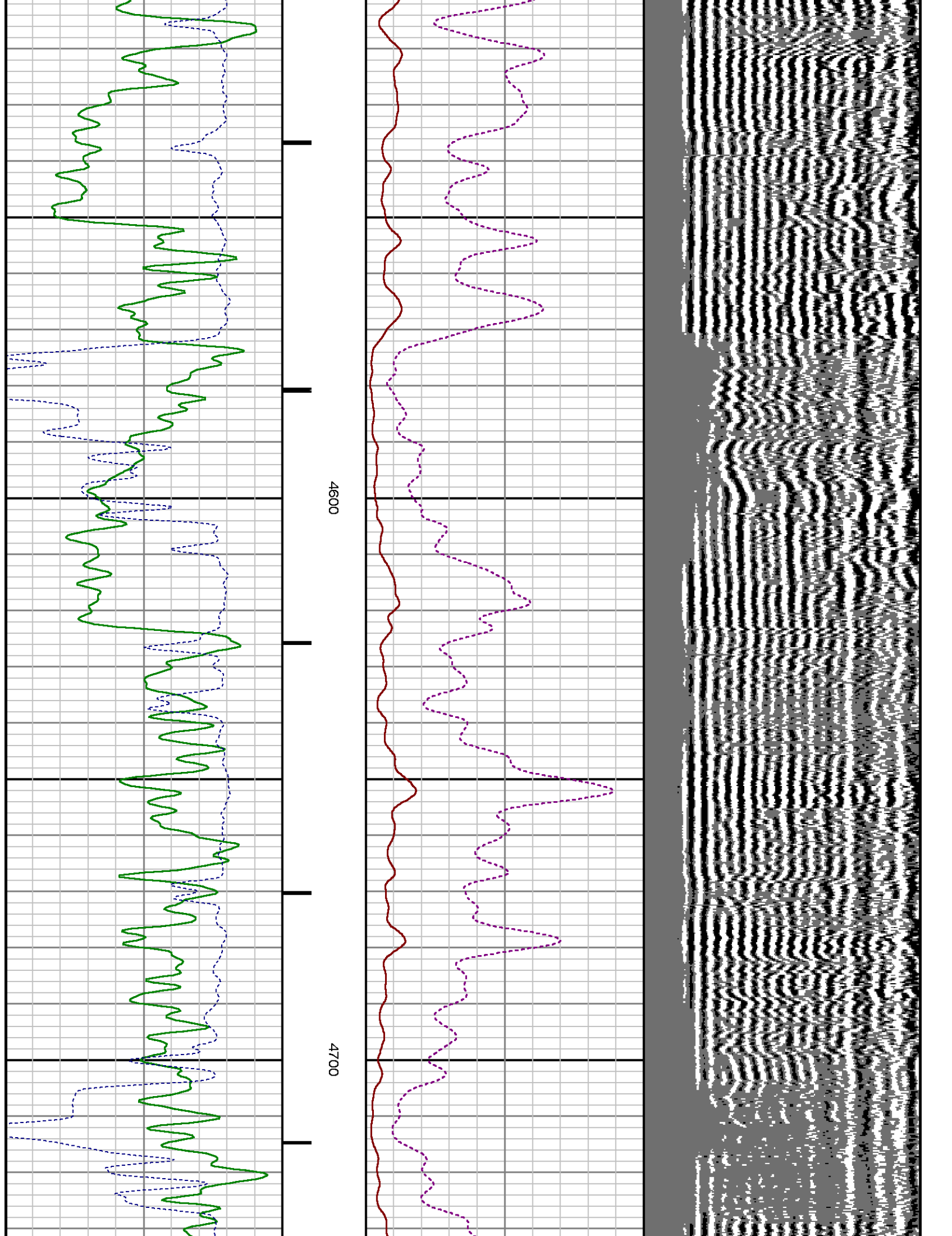


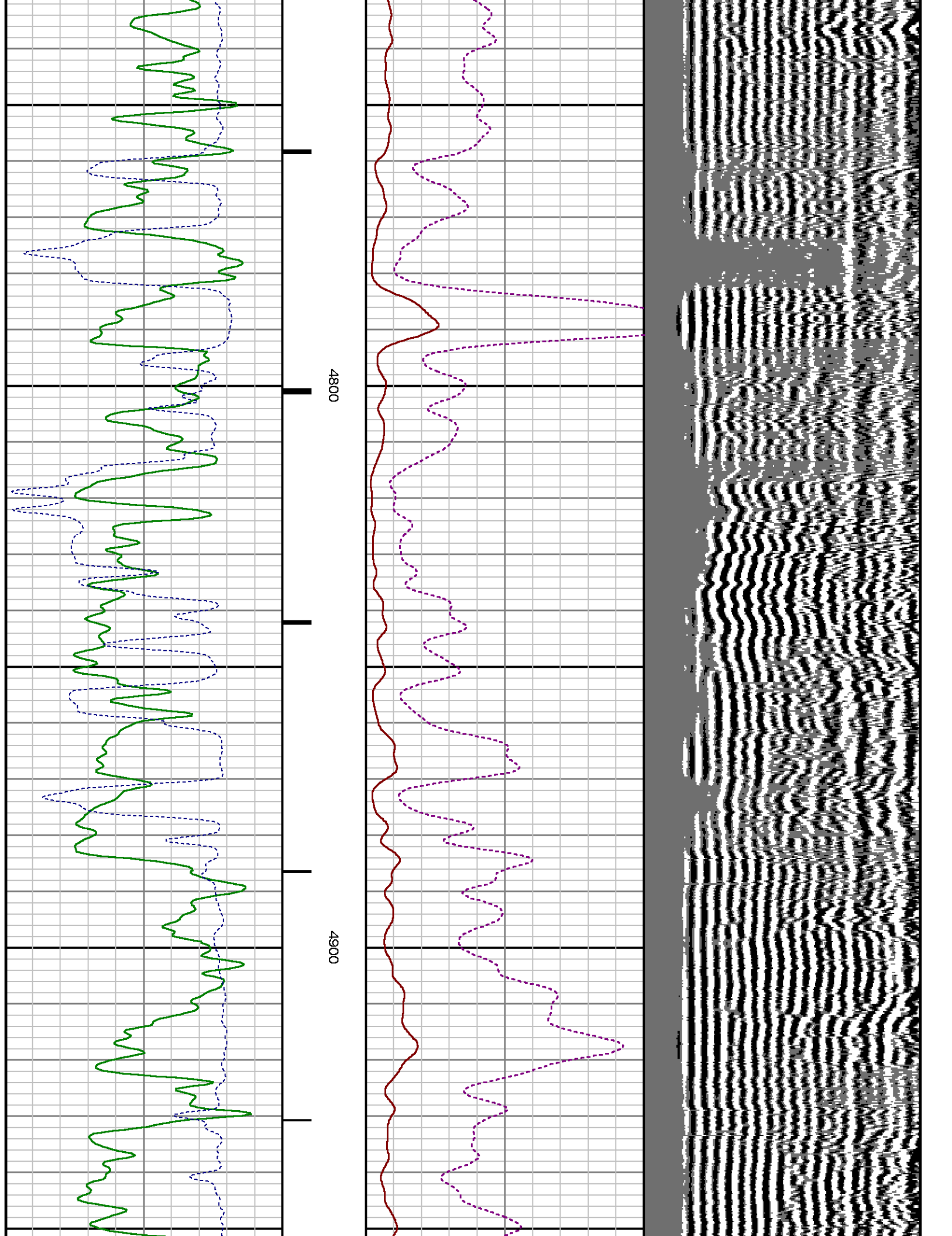


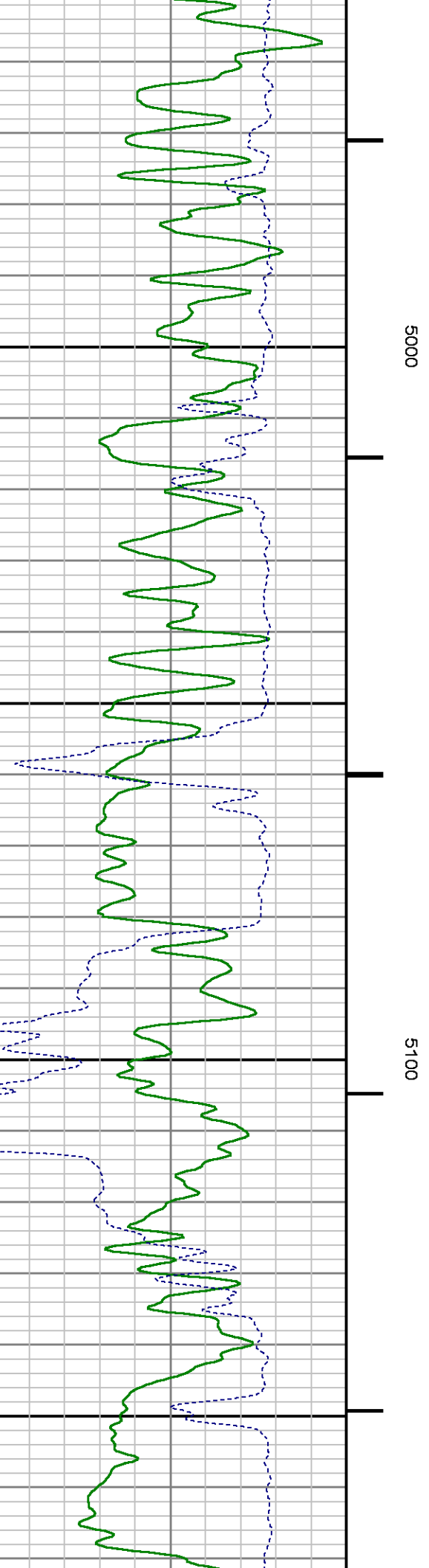
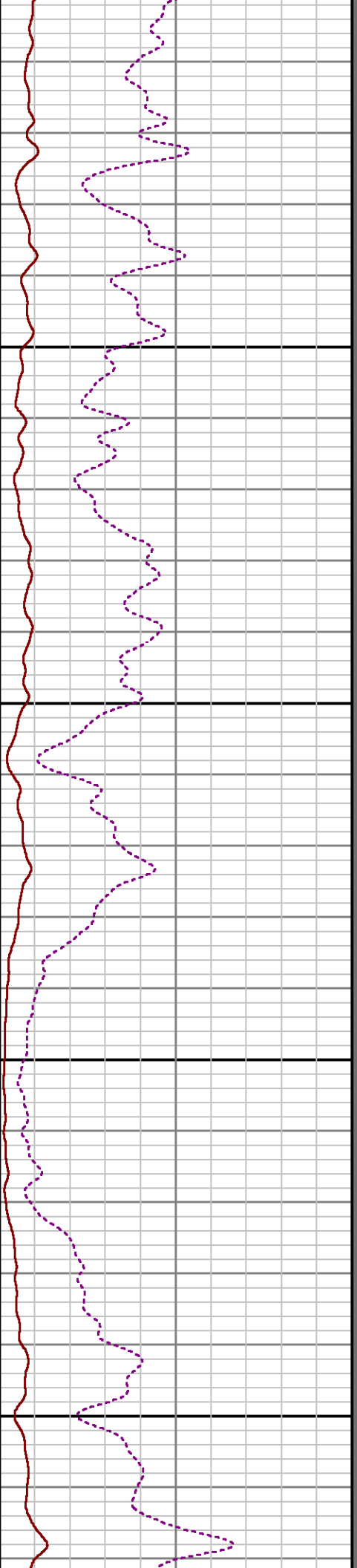
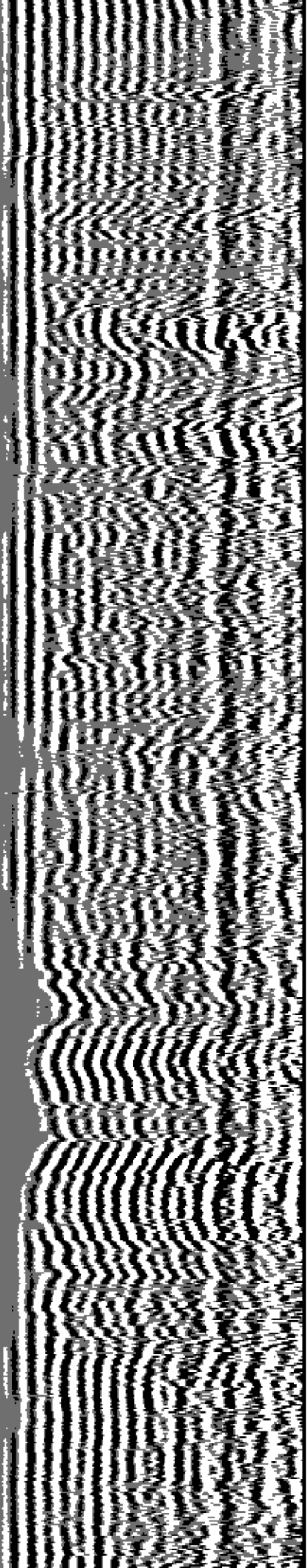


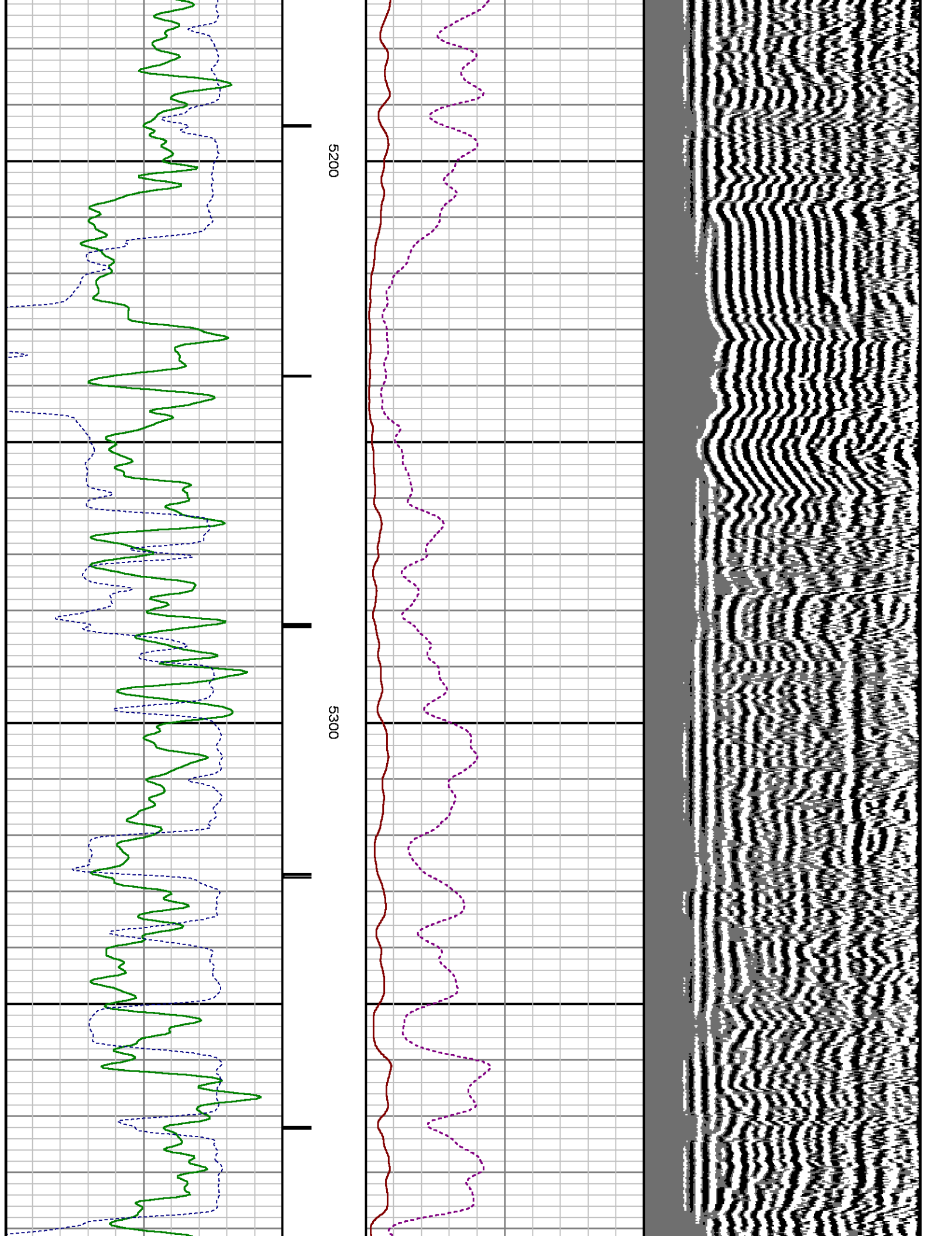


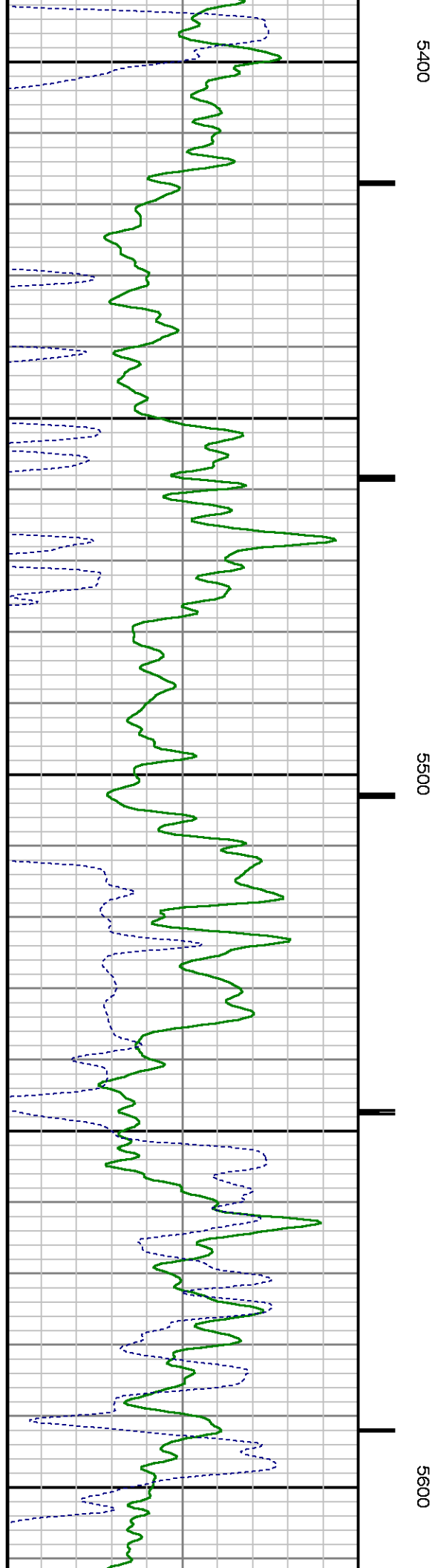
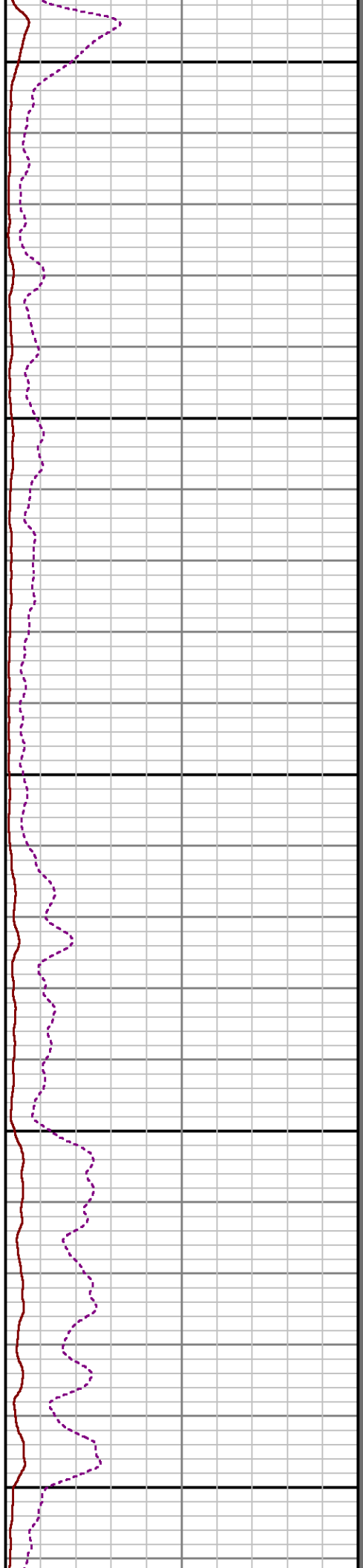
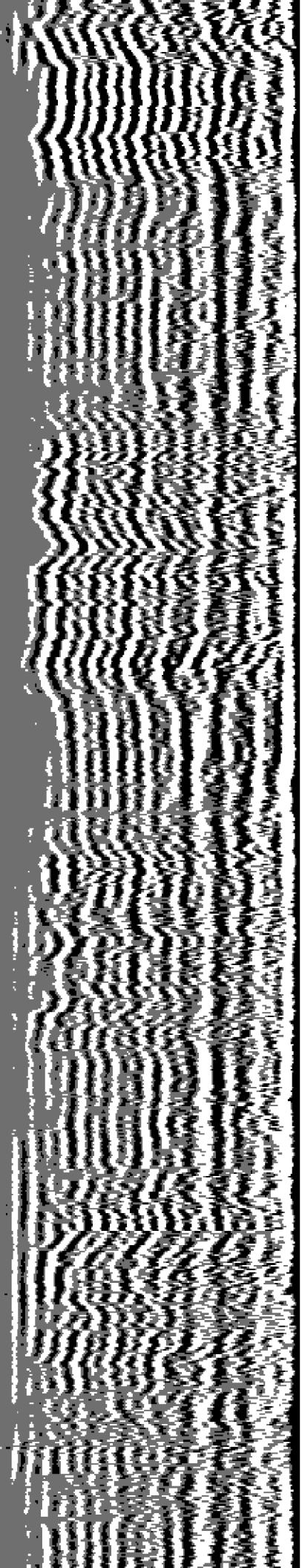


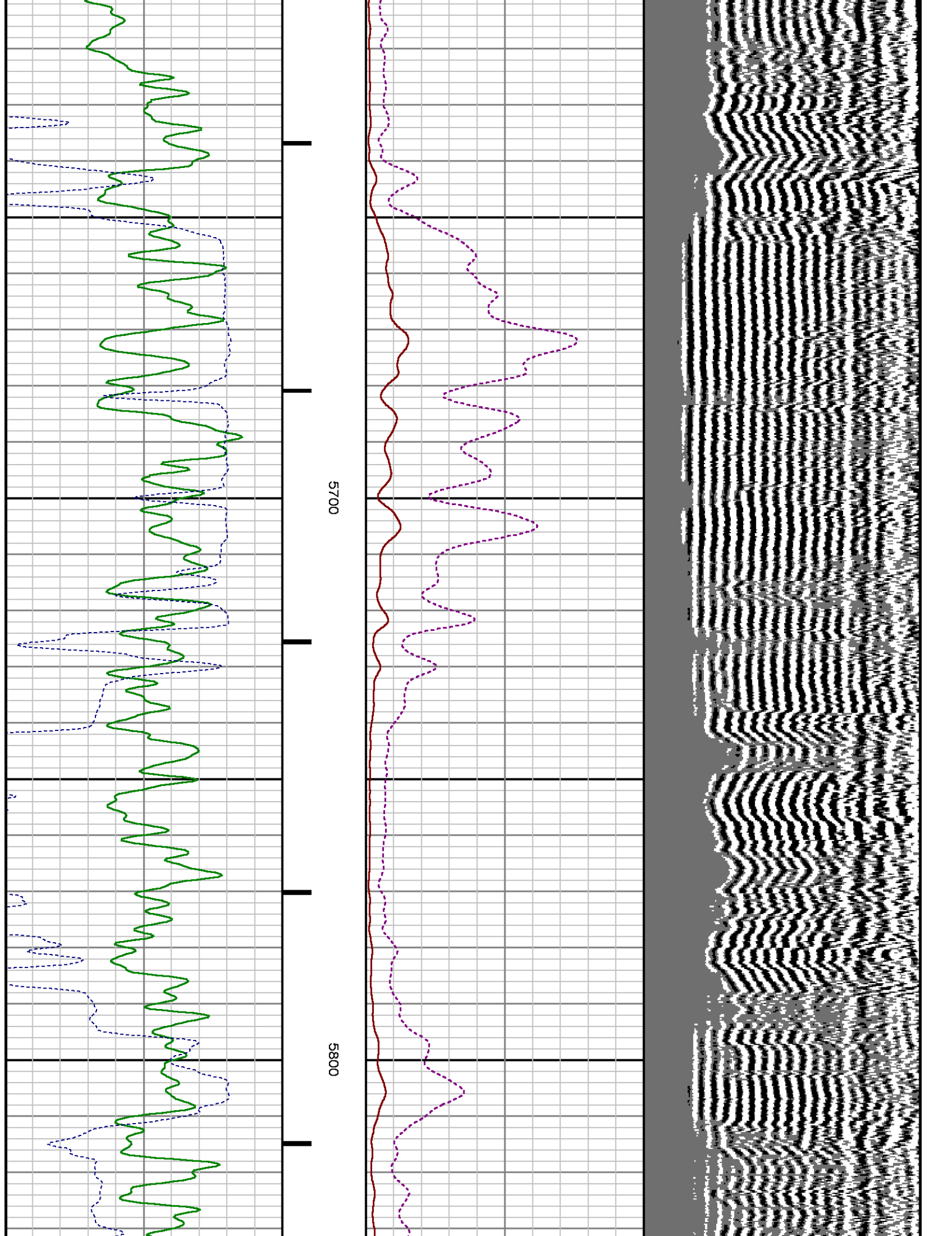


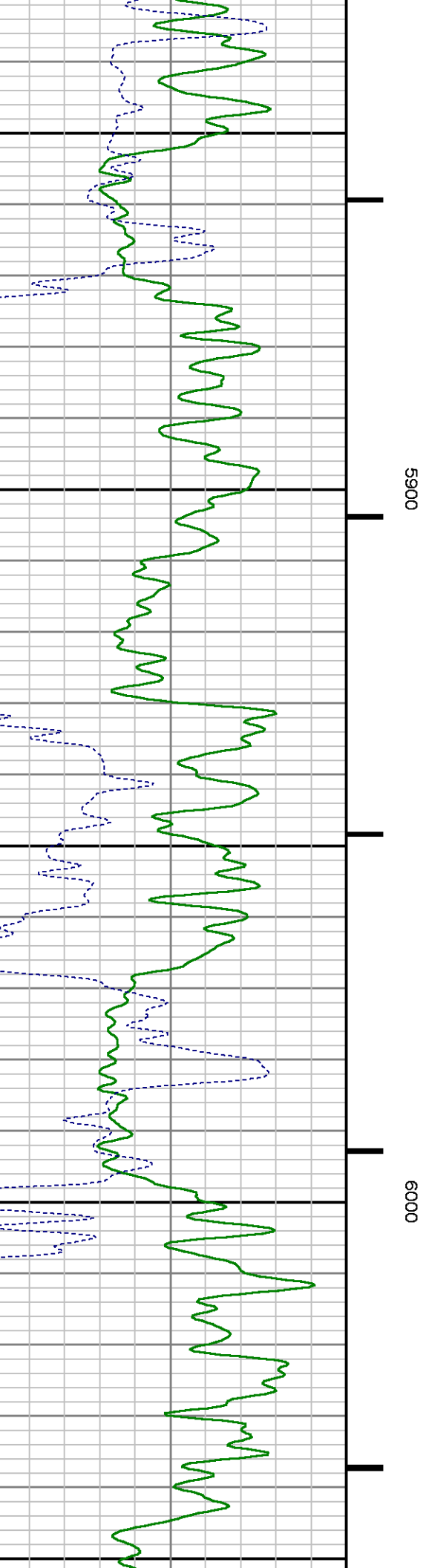
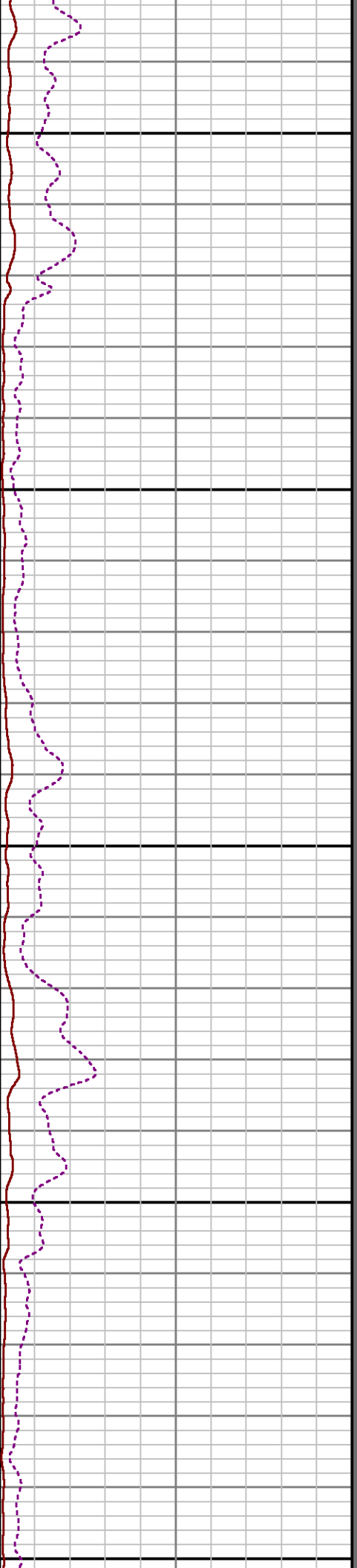
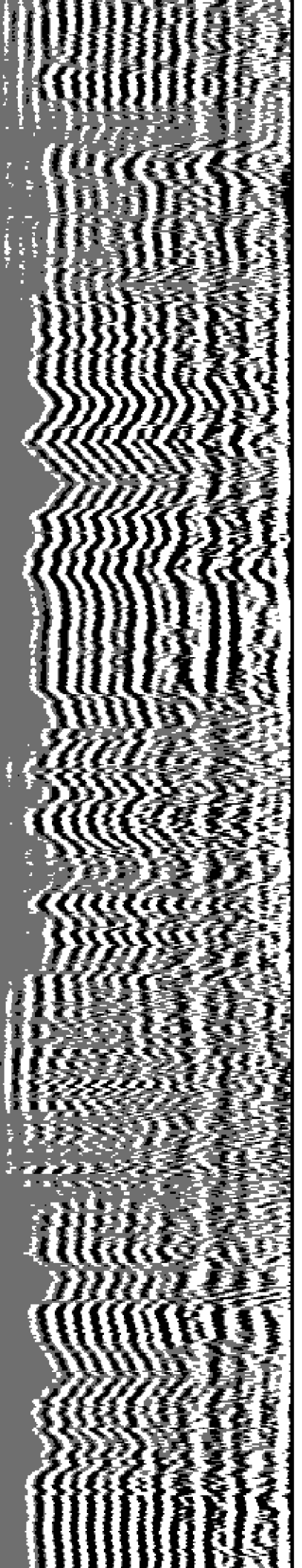


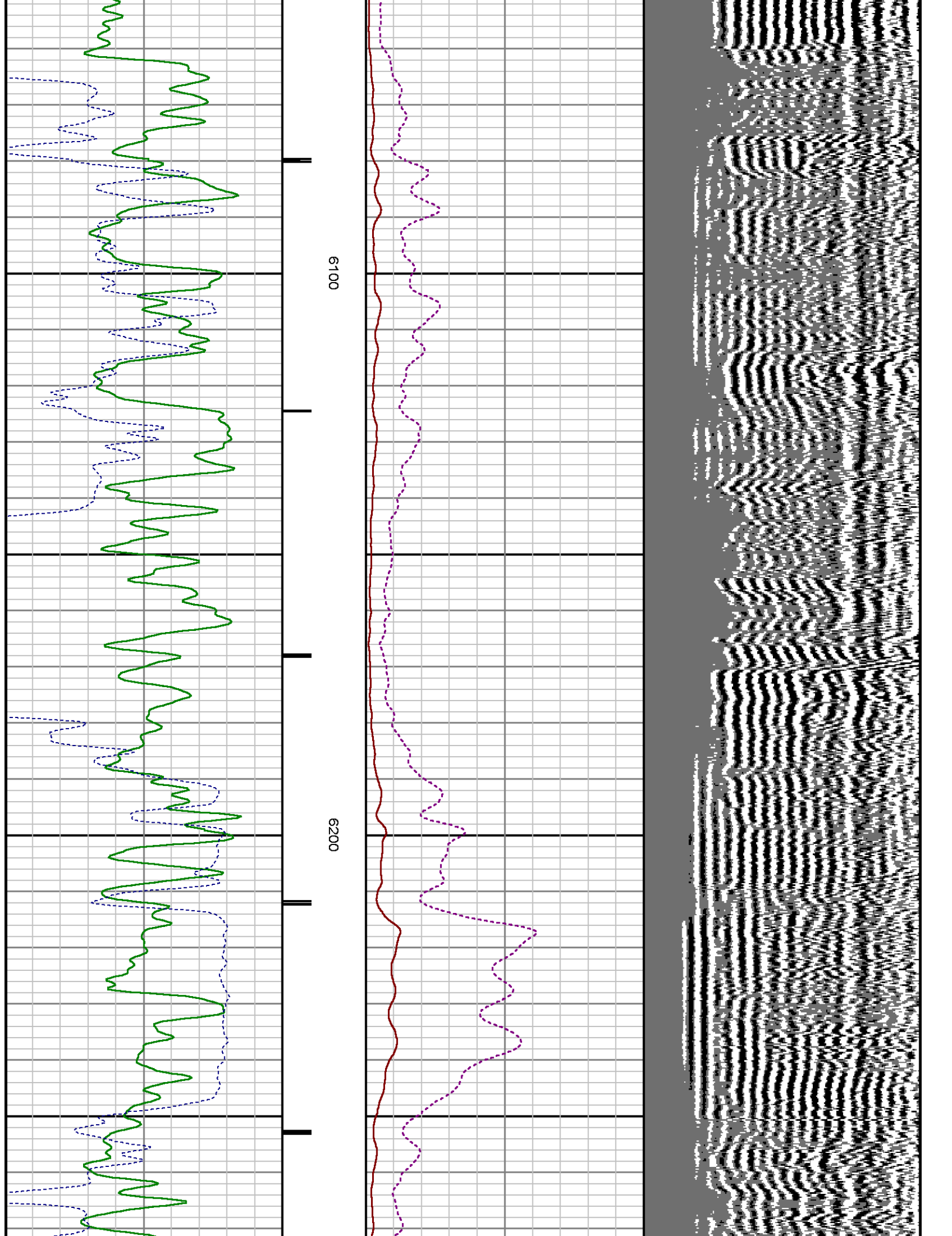


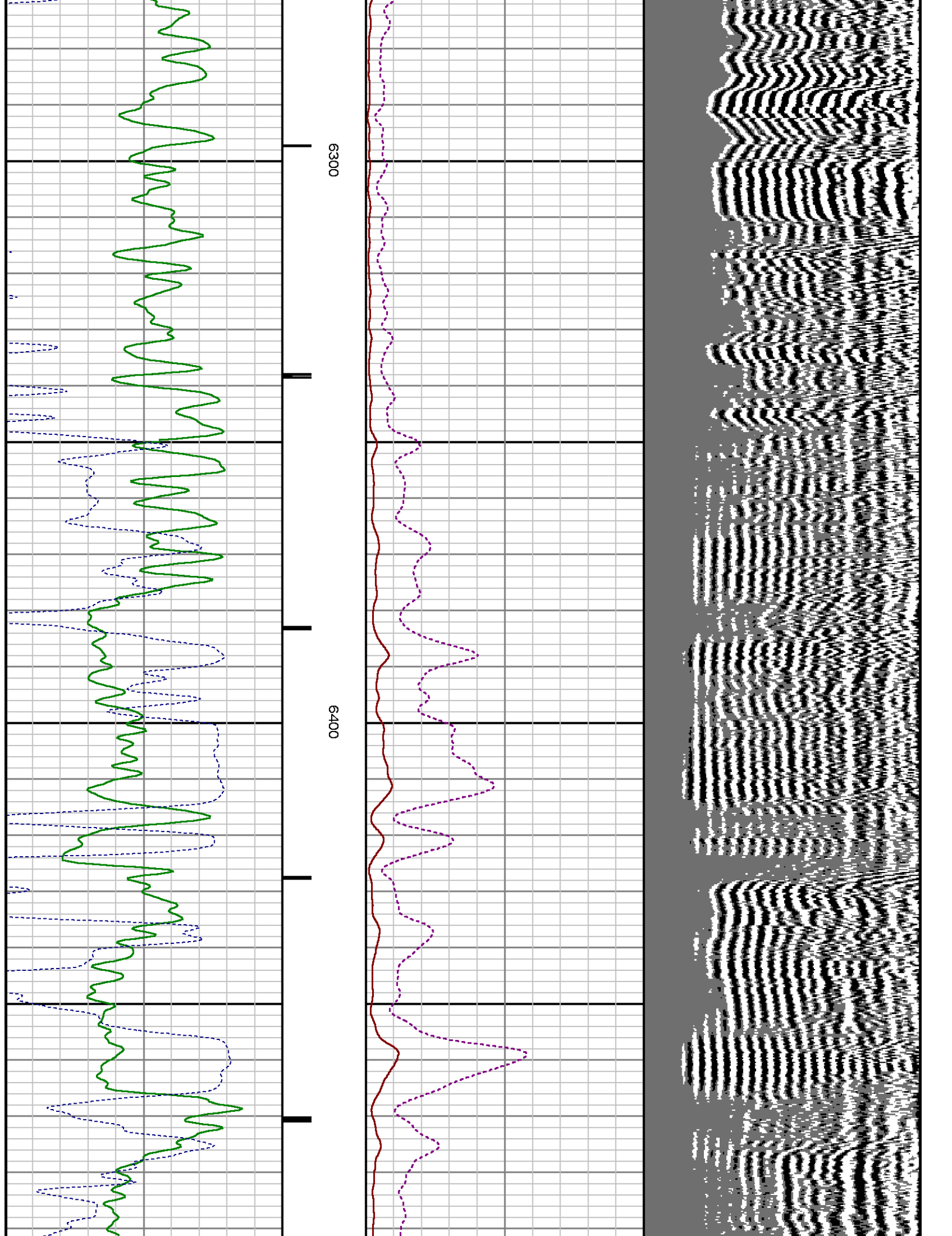


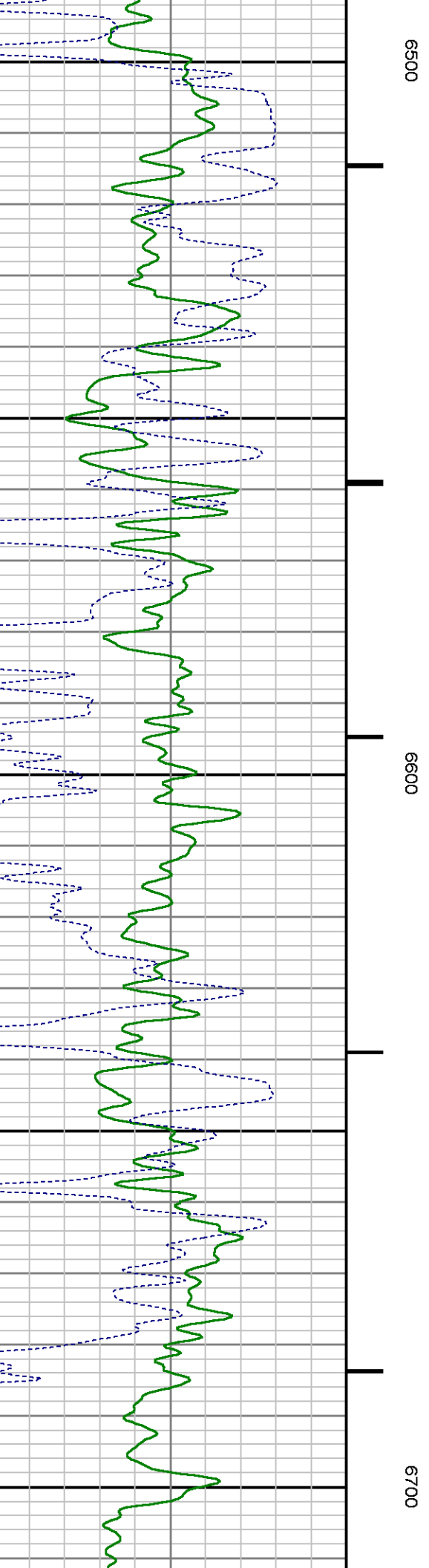
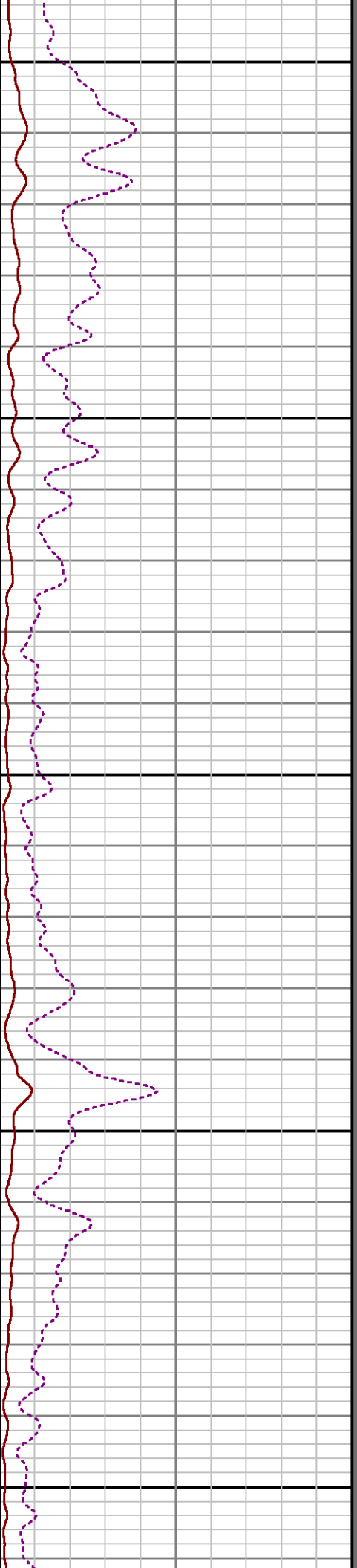
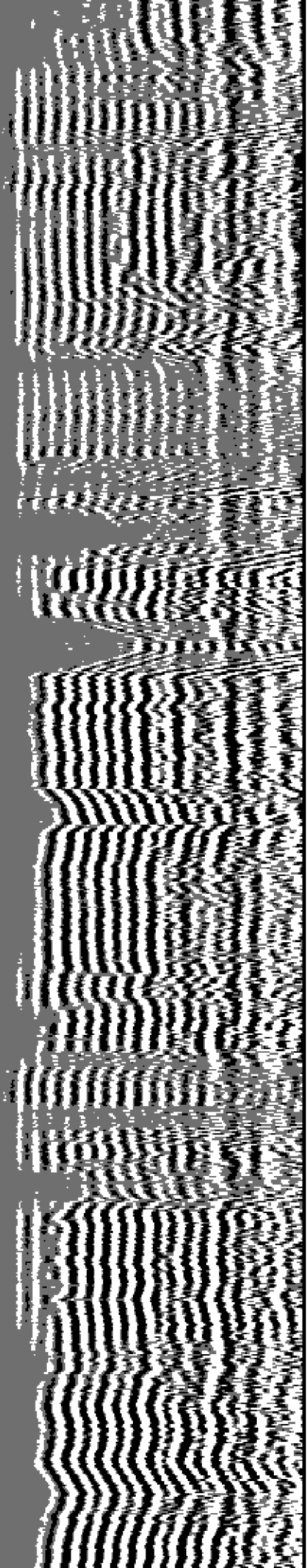


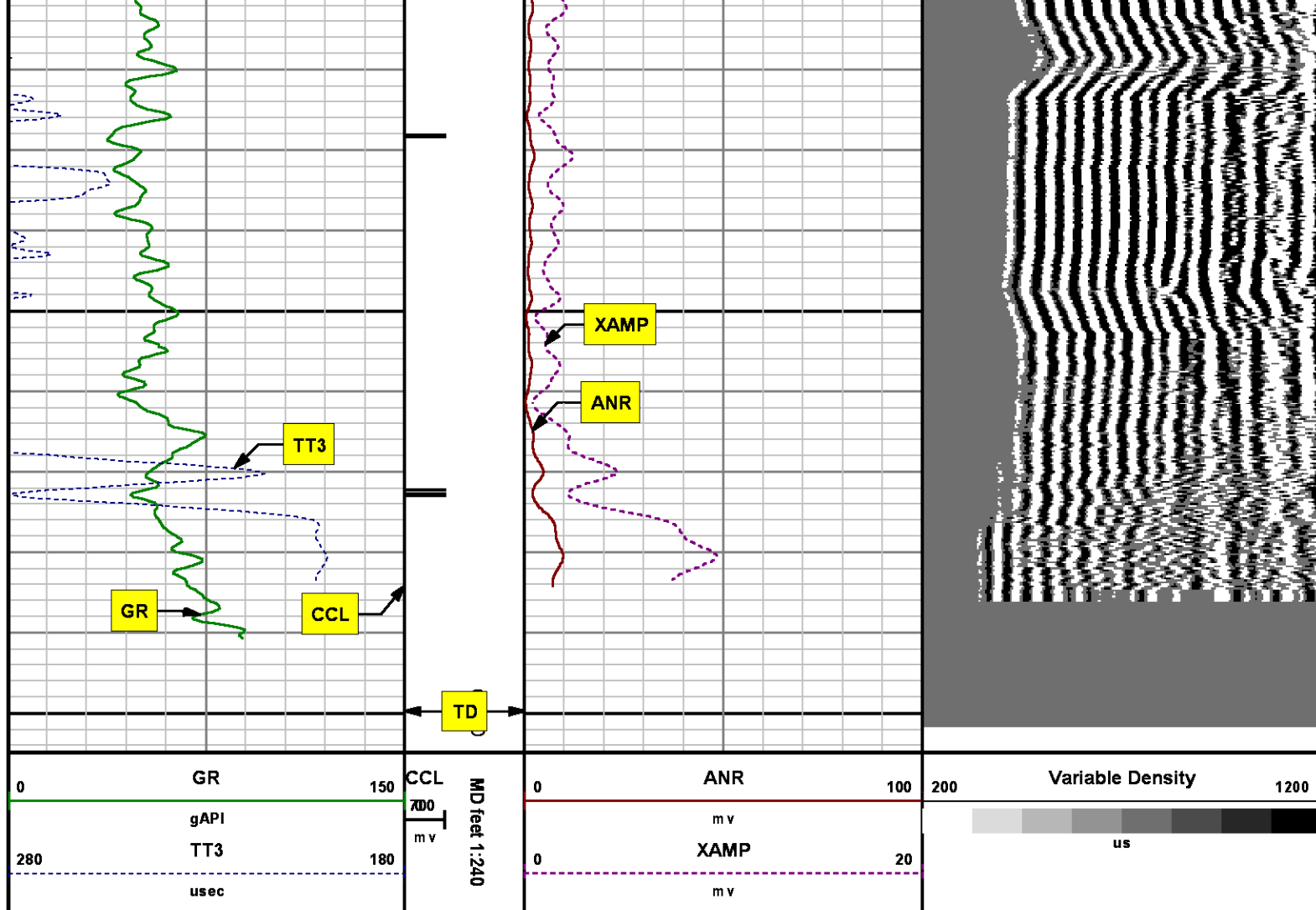












SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	33.156	6801.250
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RAL	Amp Gate Start Radial	195.000	usec	33.156	6801.250
RAL	Amp Gate Width Far	25.000	usec	33.156	6801.250
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RAL	Amp Gate Width Radial	25.000	usec	33.156	6801.250
RAL	casing od	4.500	inches	33.156	6801.250
RAL	casing wt	11.600	lbm/ft	33.156	6801.250

RAL	Casing wt	11.000	lbm/ft	33.156	6801.250
RAL	FB Start Far	291.900	usec	33.156	6801.250
RAL	FB Start Near	175.391	usec	33.156	6801.250
RAL	FB Start Radial	175.391	usec	33.156	6801.250
RAL	FB Thresh Far	10.000	mv	33.156	6801.250
RAL	FB Thresh Near	4.000	mv	33.156	6801.250
RAL	FB Thresh Radial	4.000	mv	33.156	6801.250
RAL	Fluid Travel Time	200.000	usec/ft	33.156	6801.250

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					
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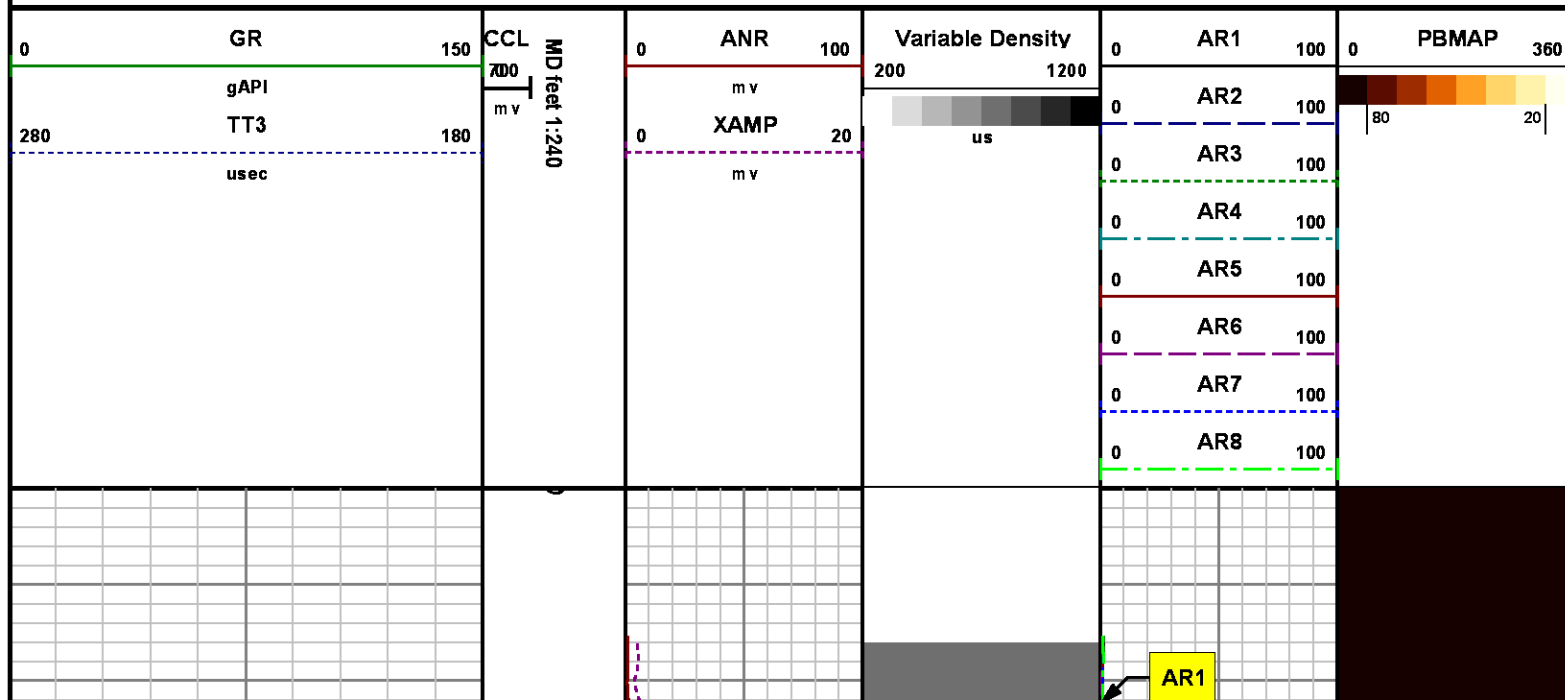
Well : PA 313-6

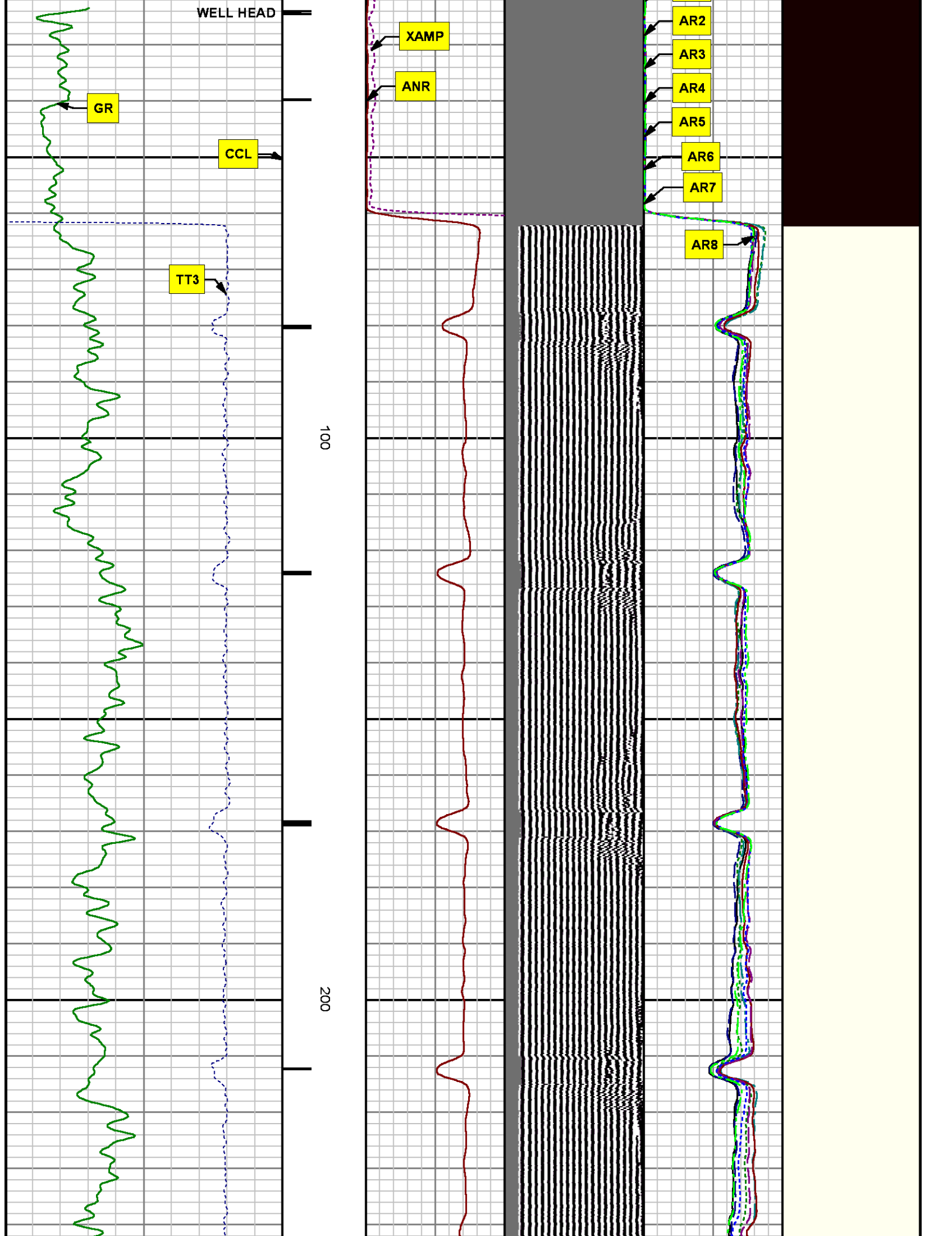
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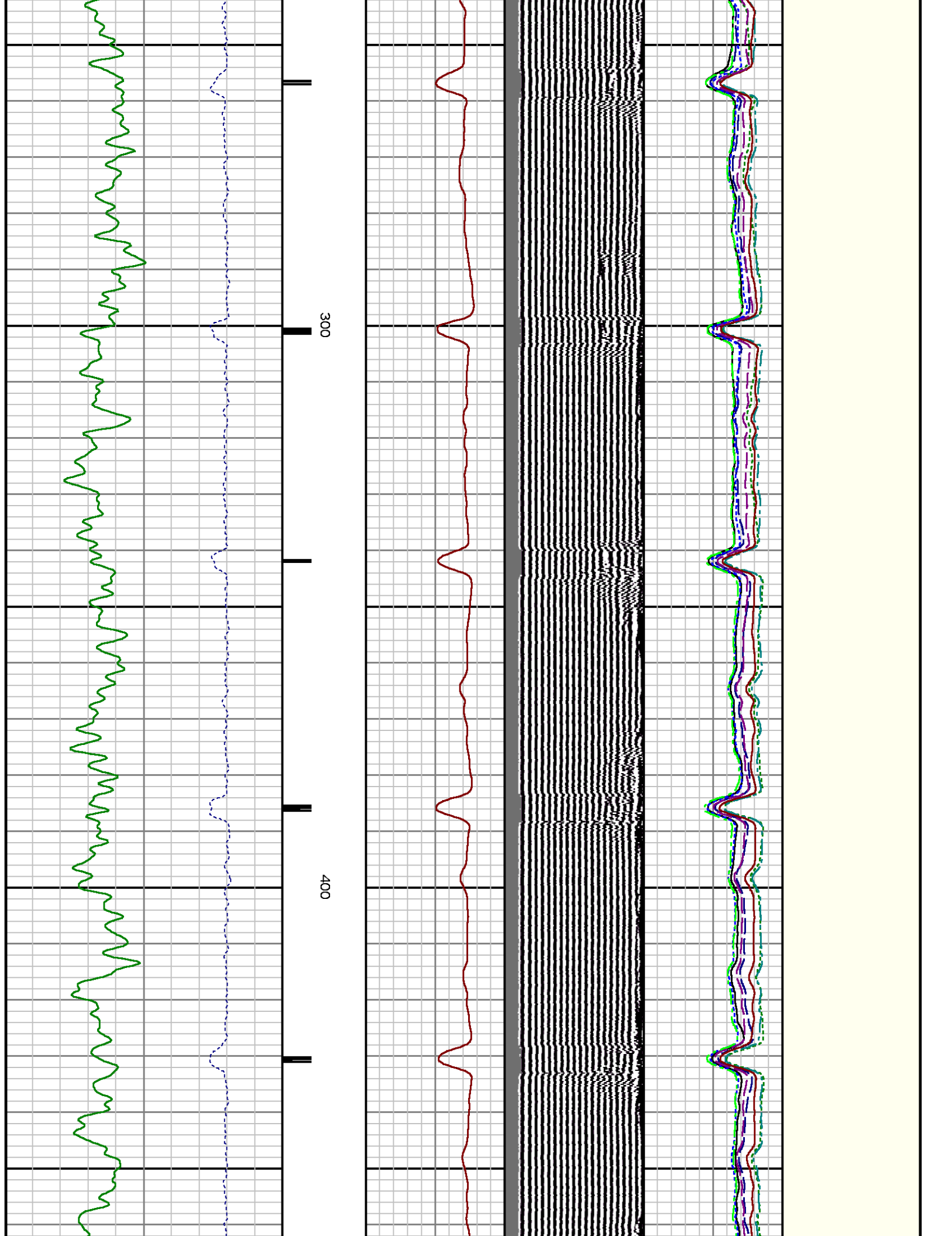
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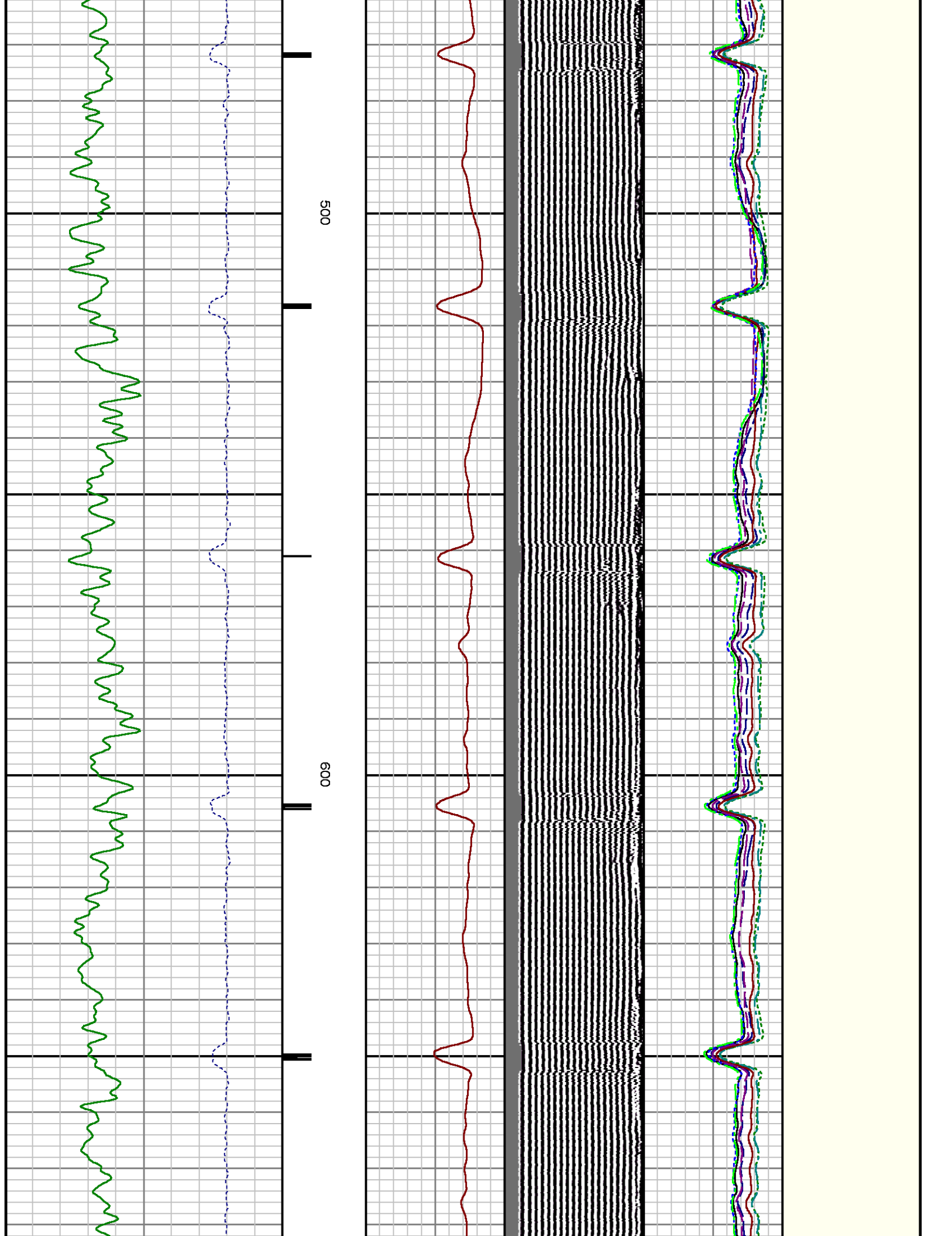
Interval : 0.00 - 6805.00 feet UP

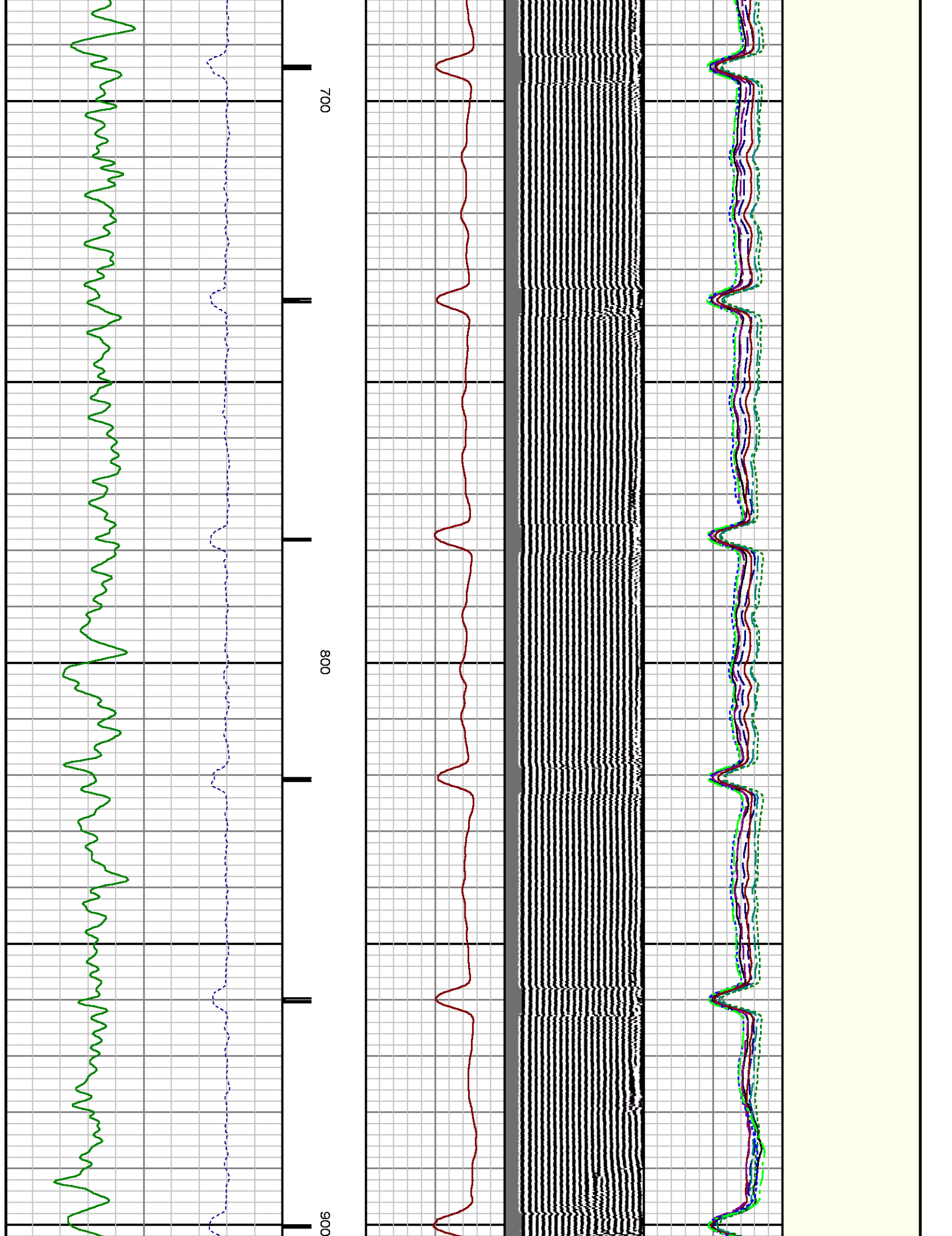
Created : 6/5/2014 7:46:22 AM

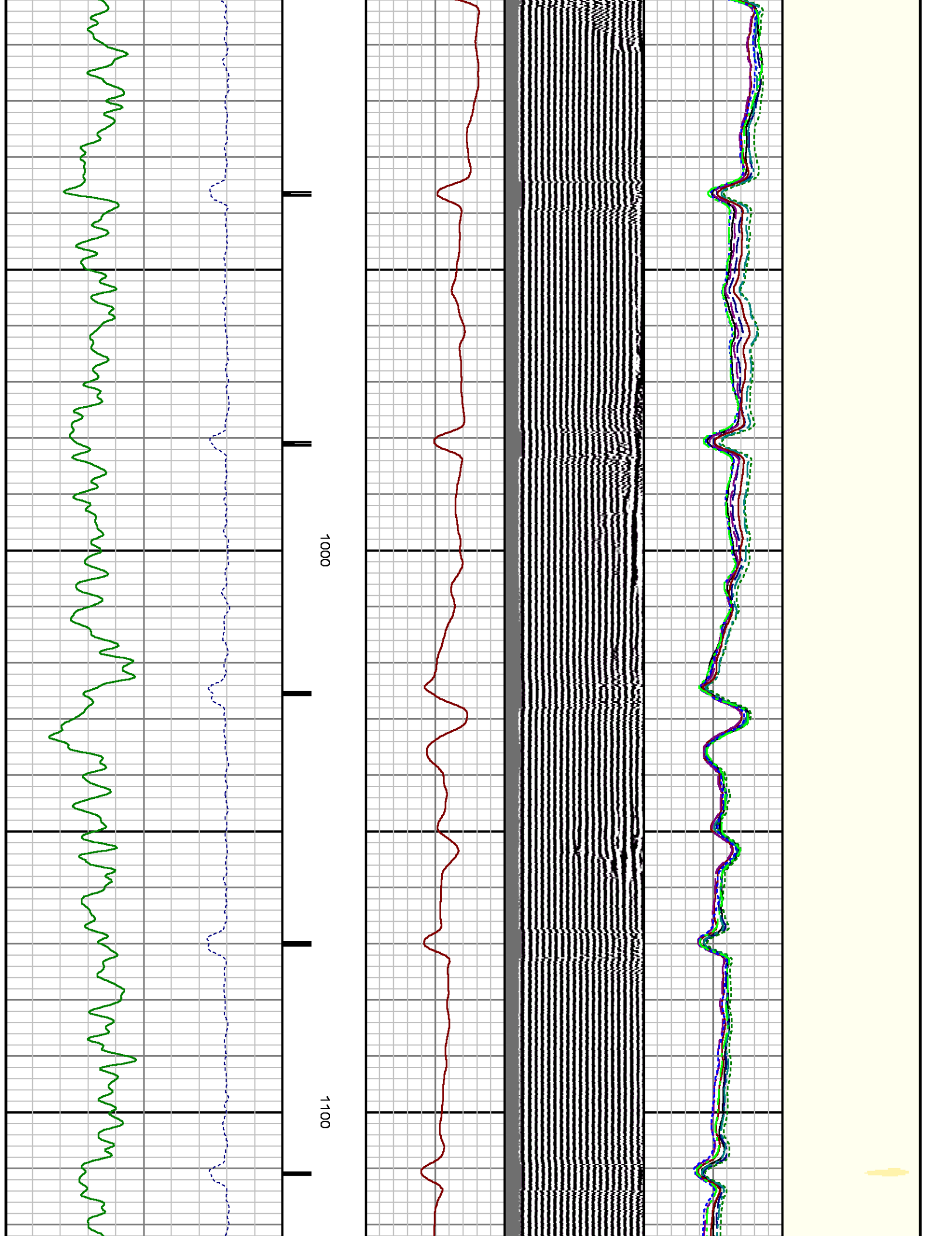


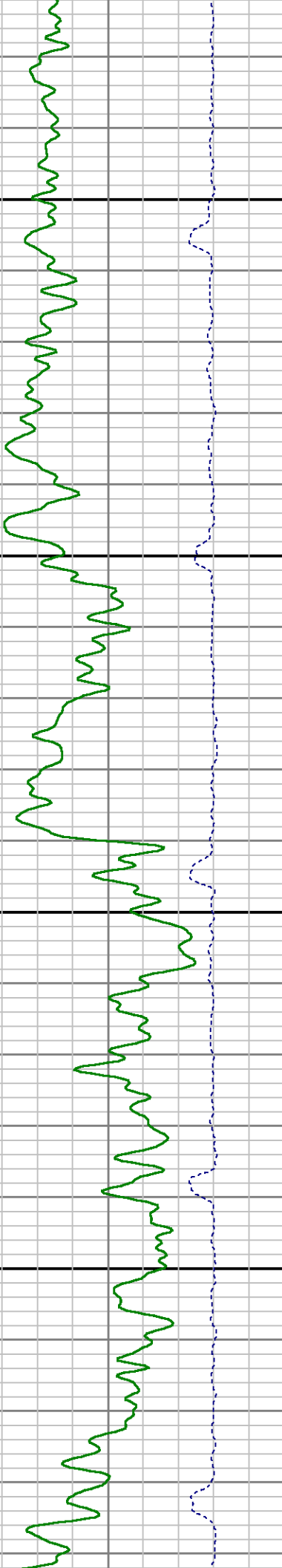
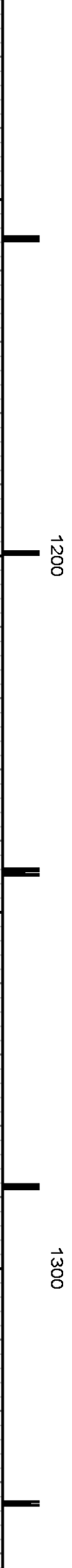
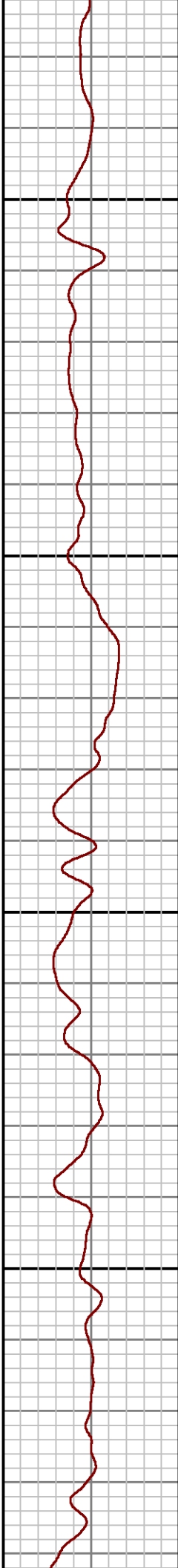
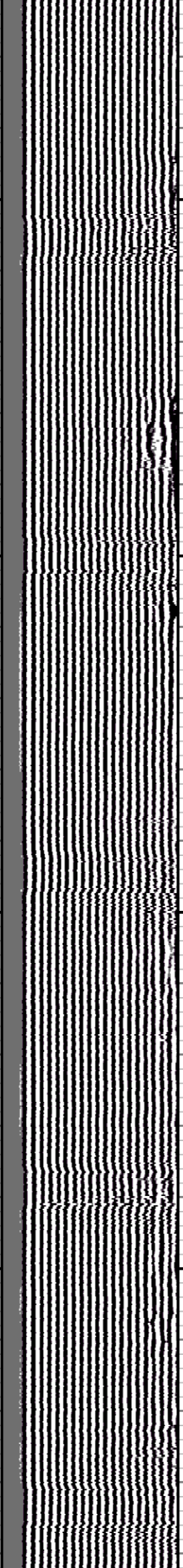
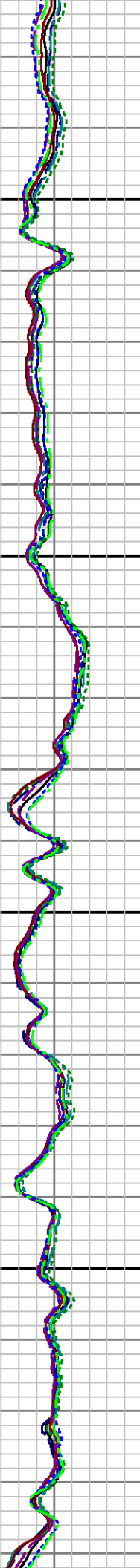
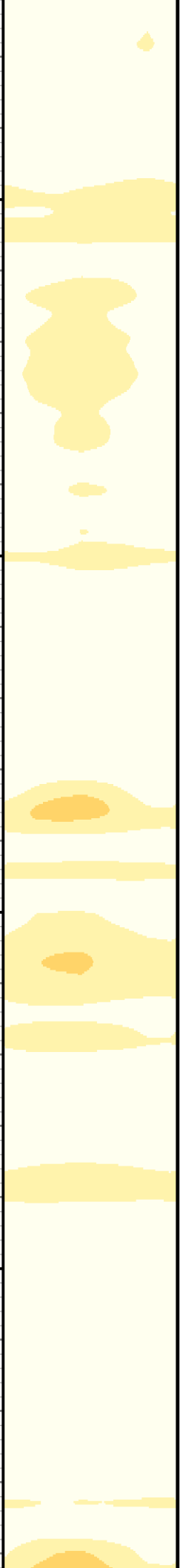


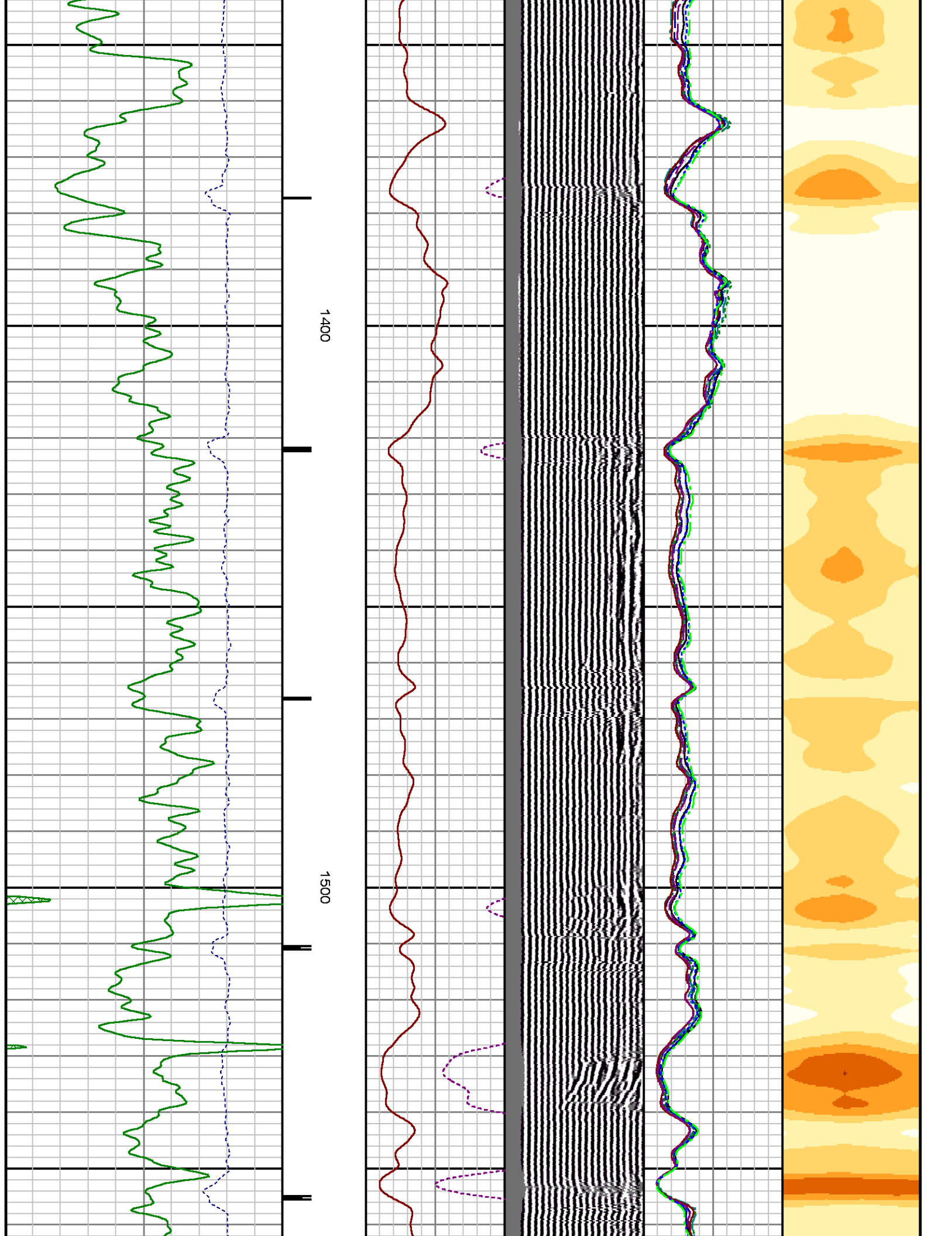


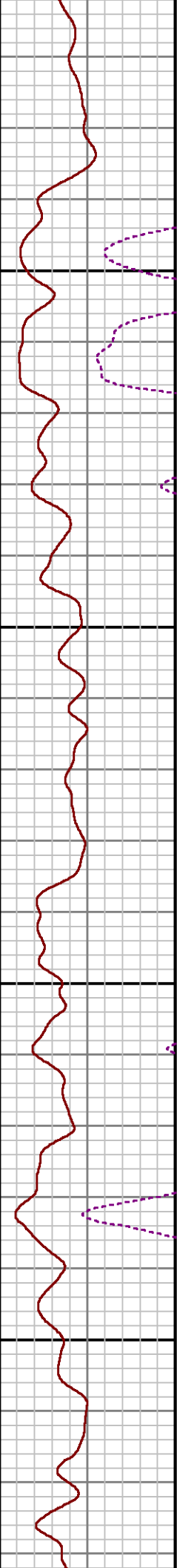
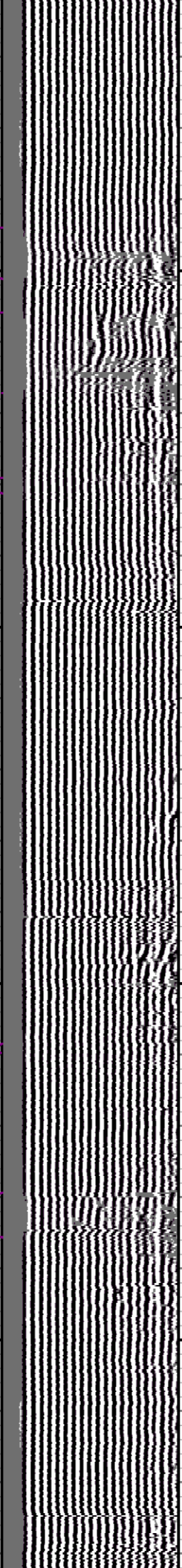
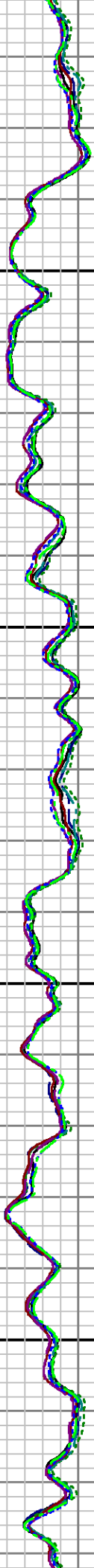
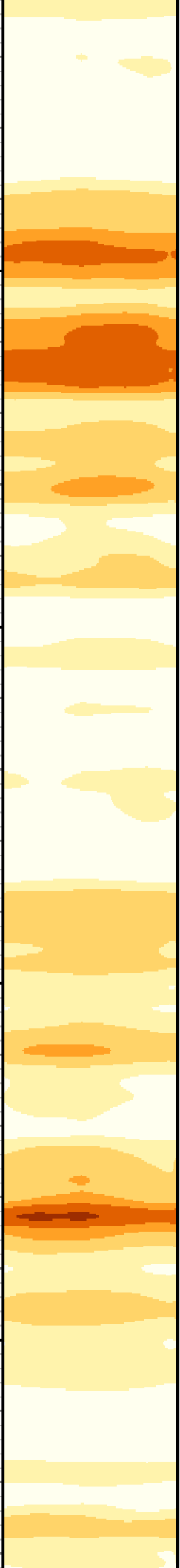






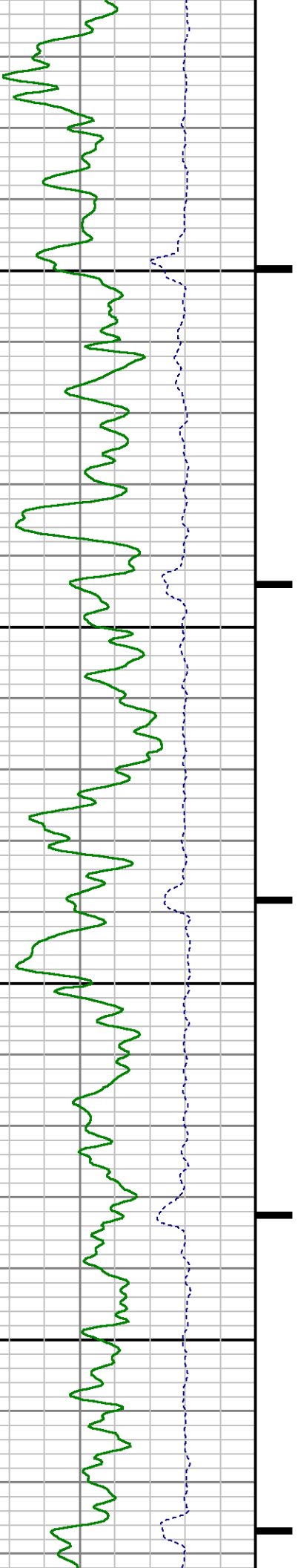


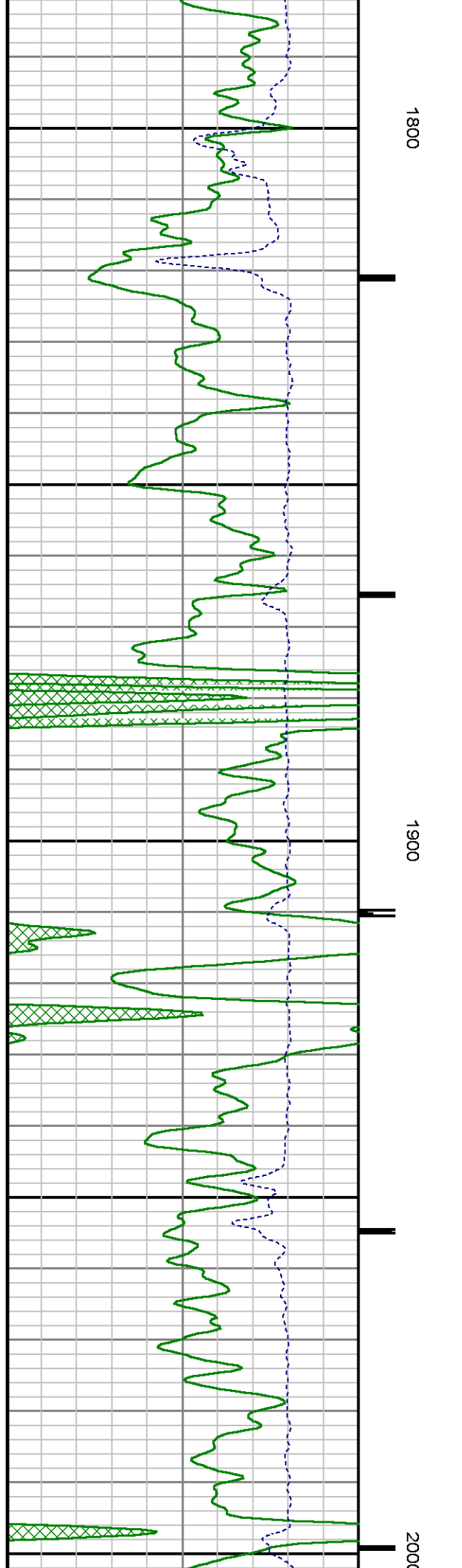
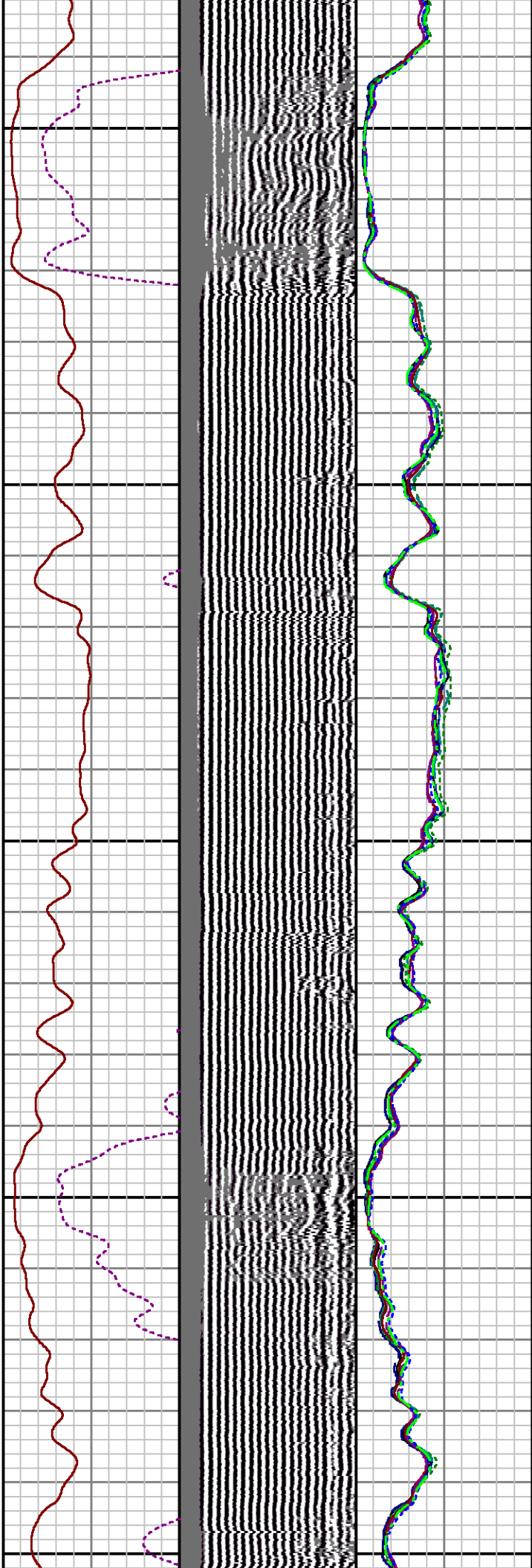
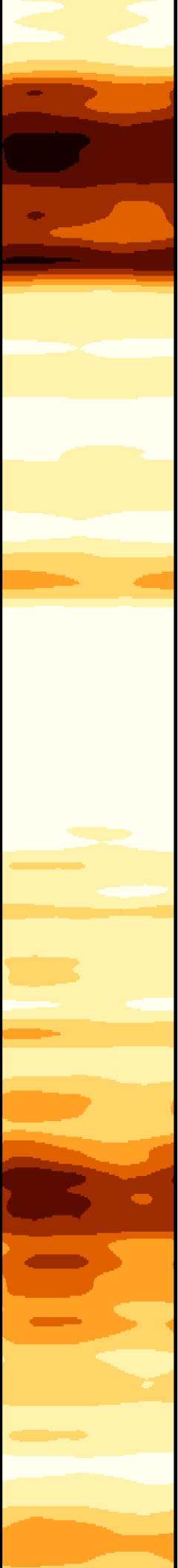


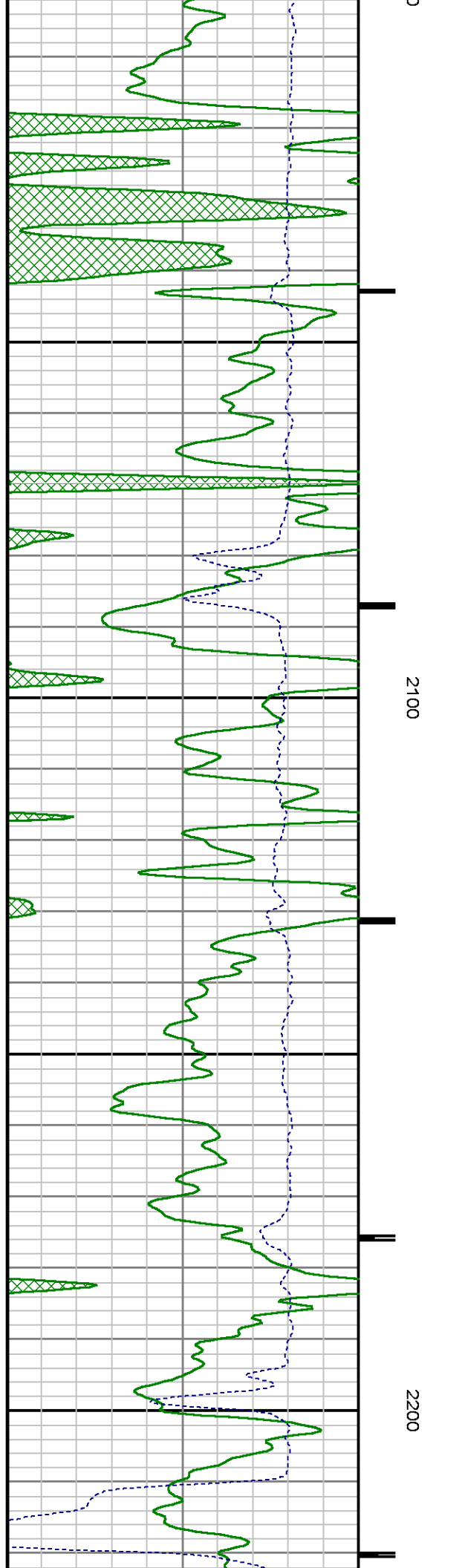
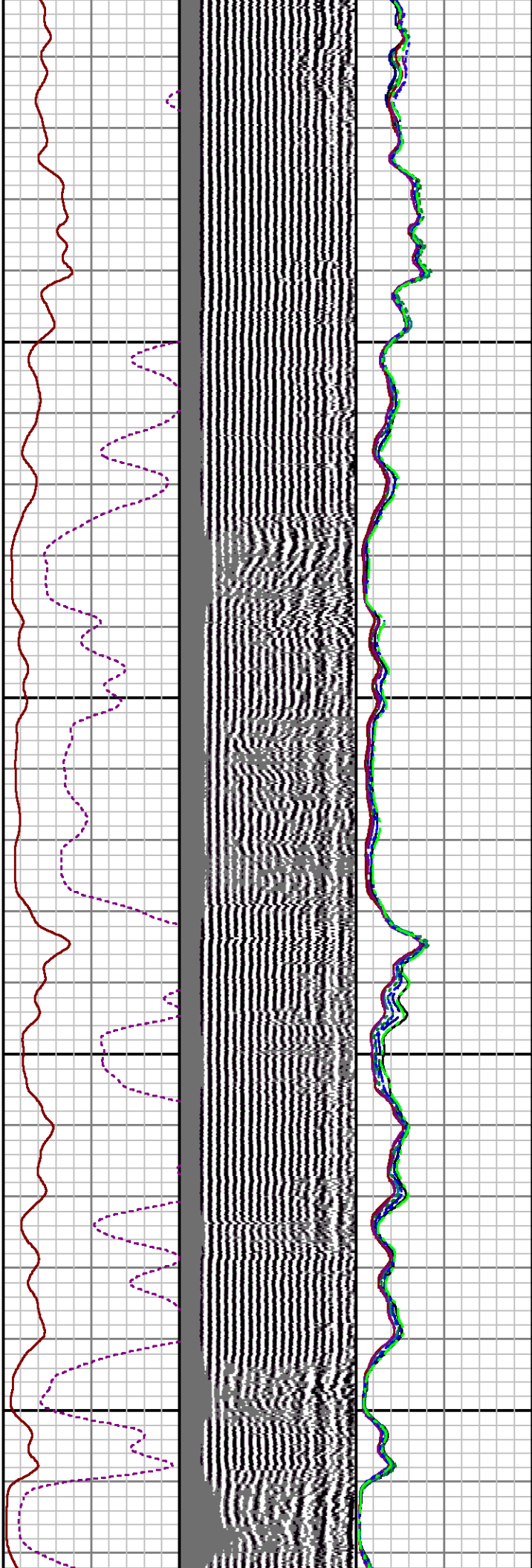
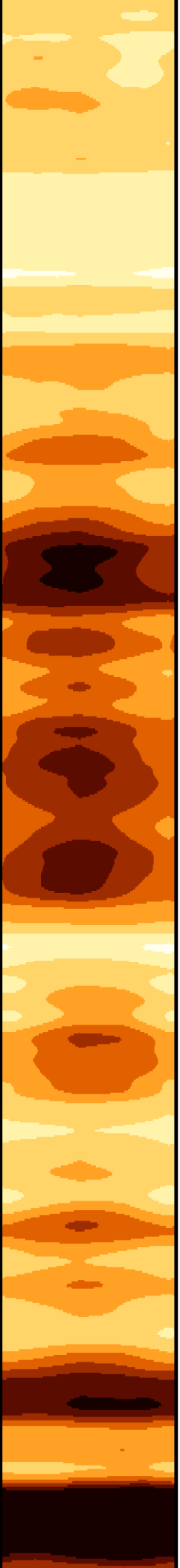


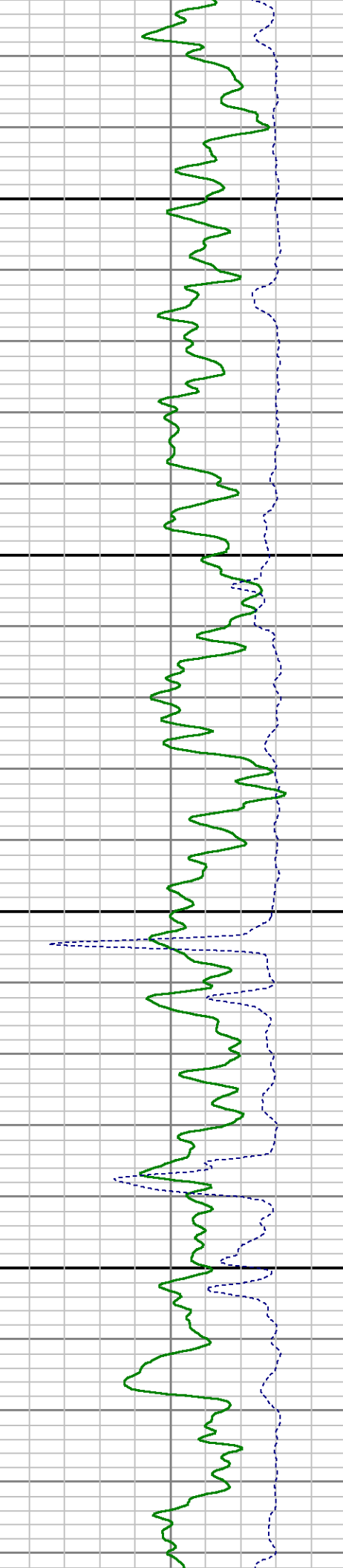
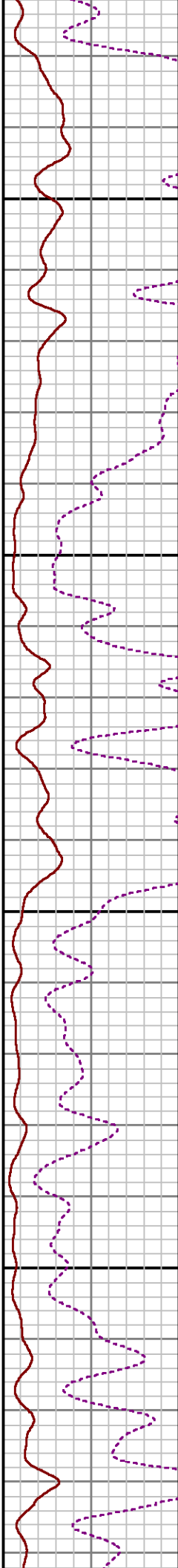
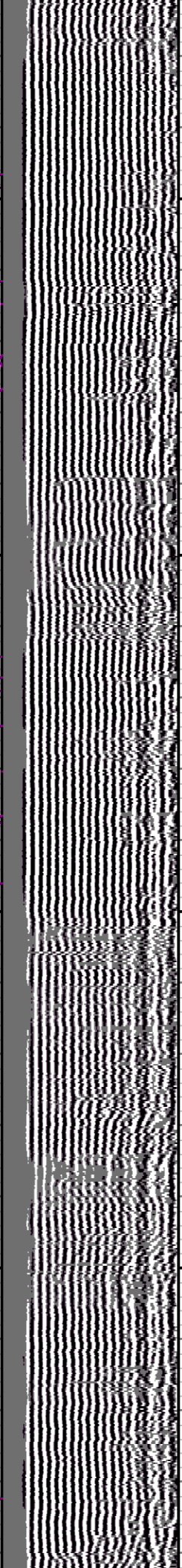
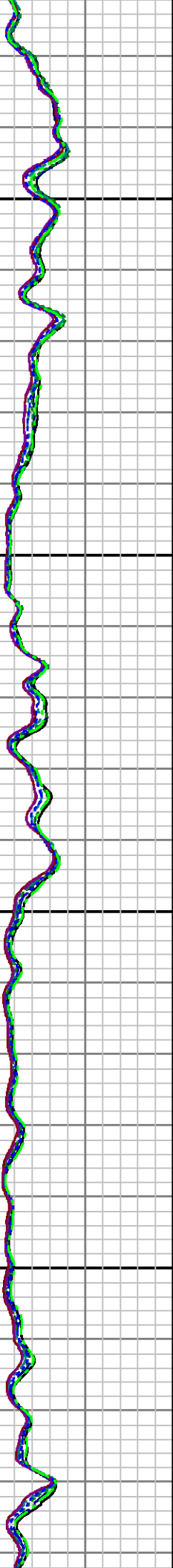
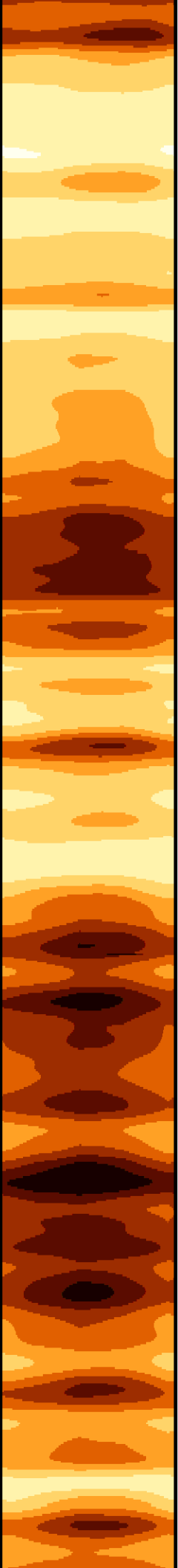
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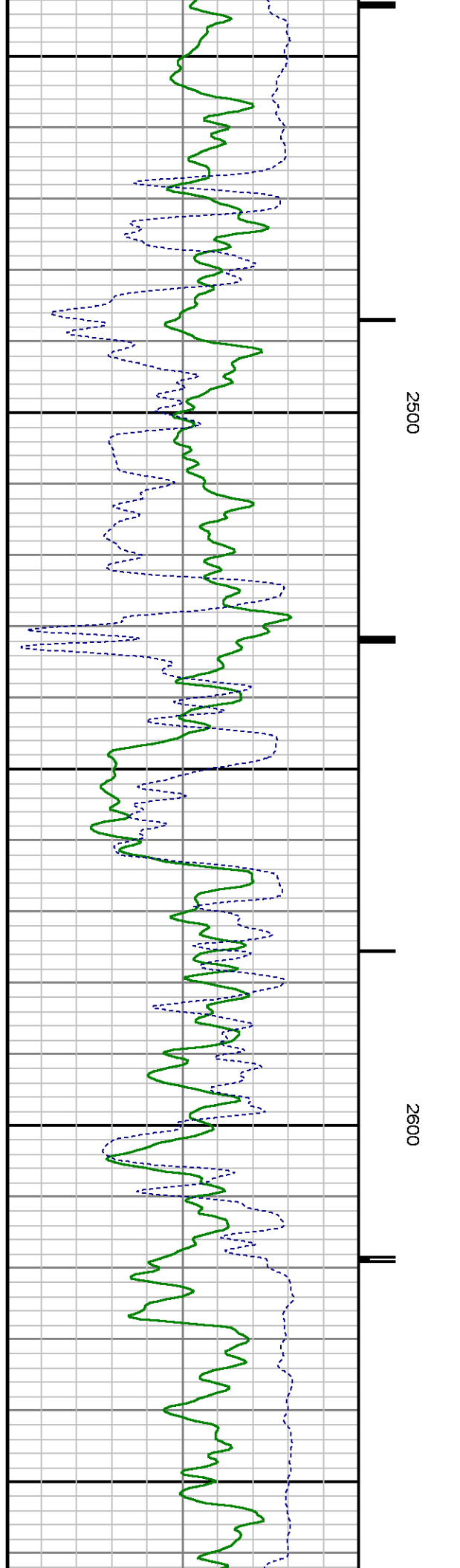
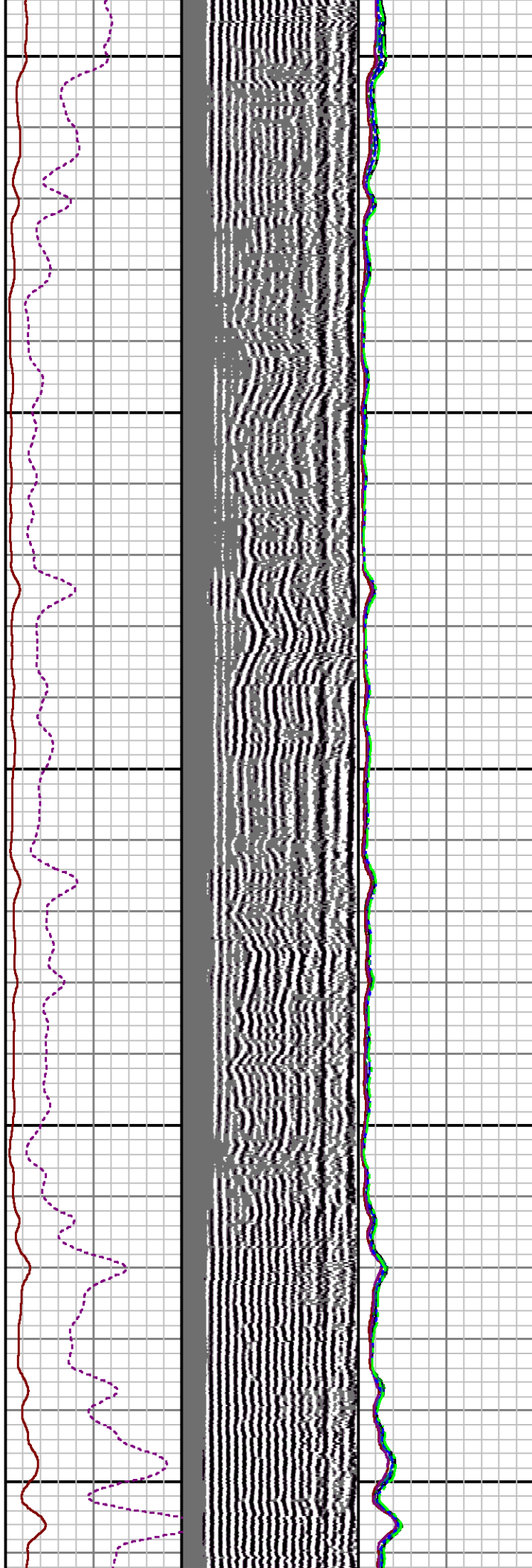
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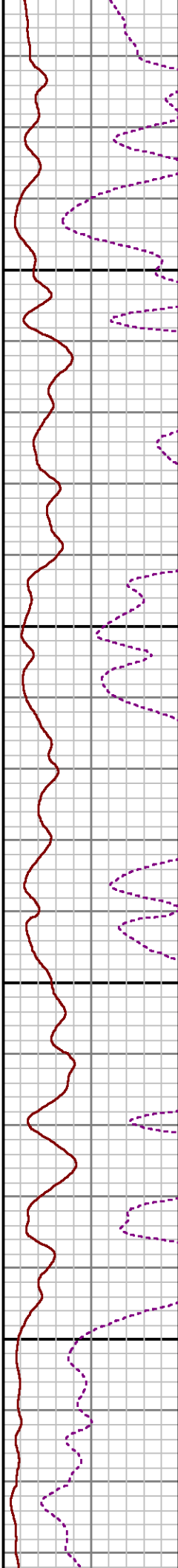
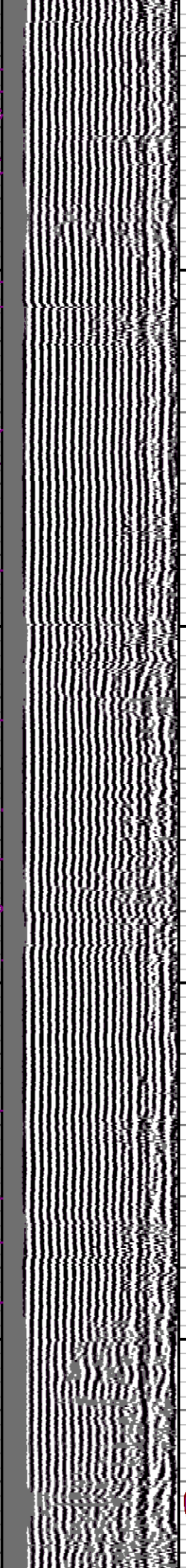
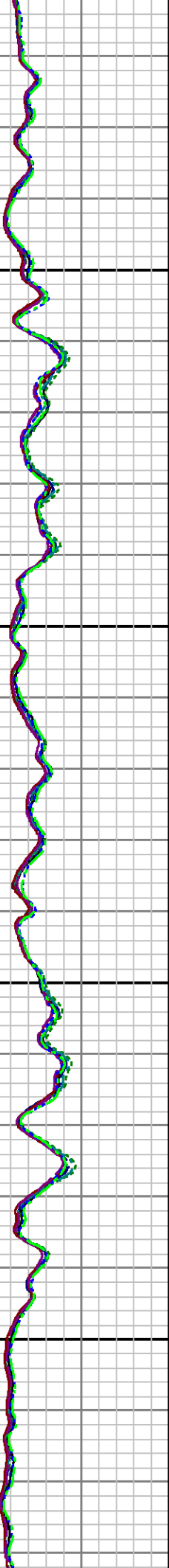
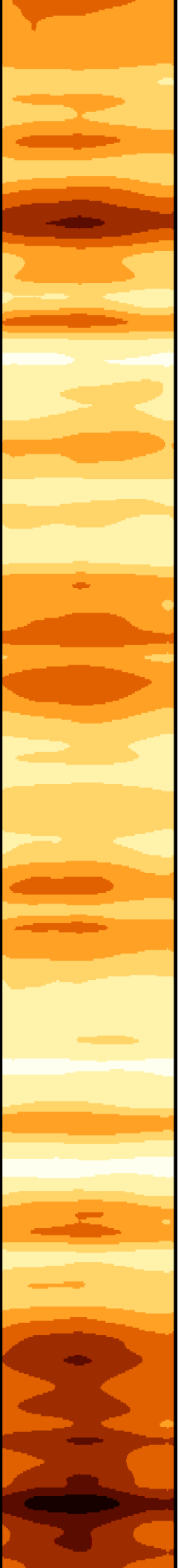






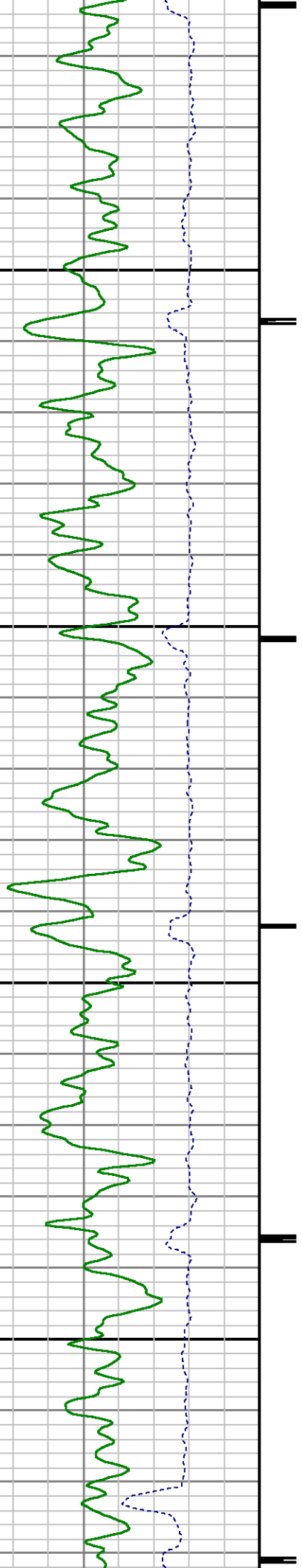


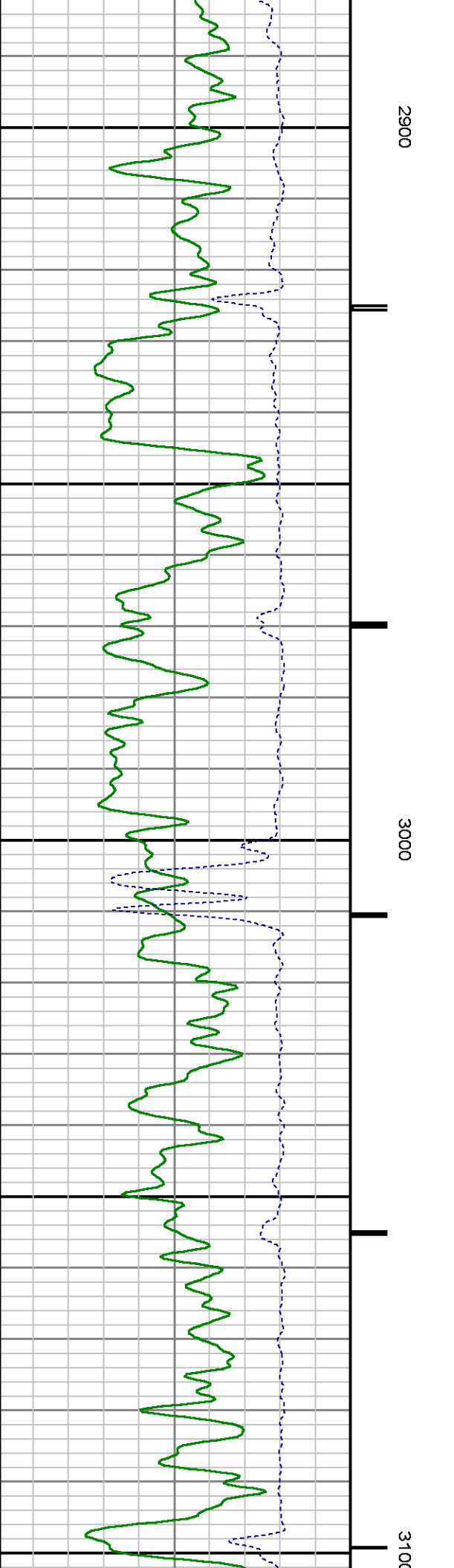
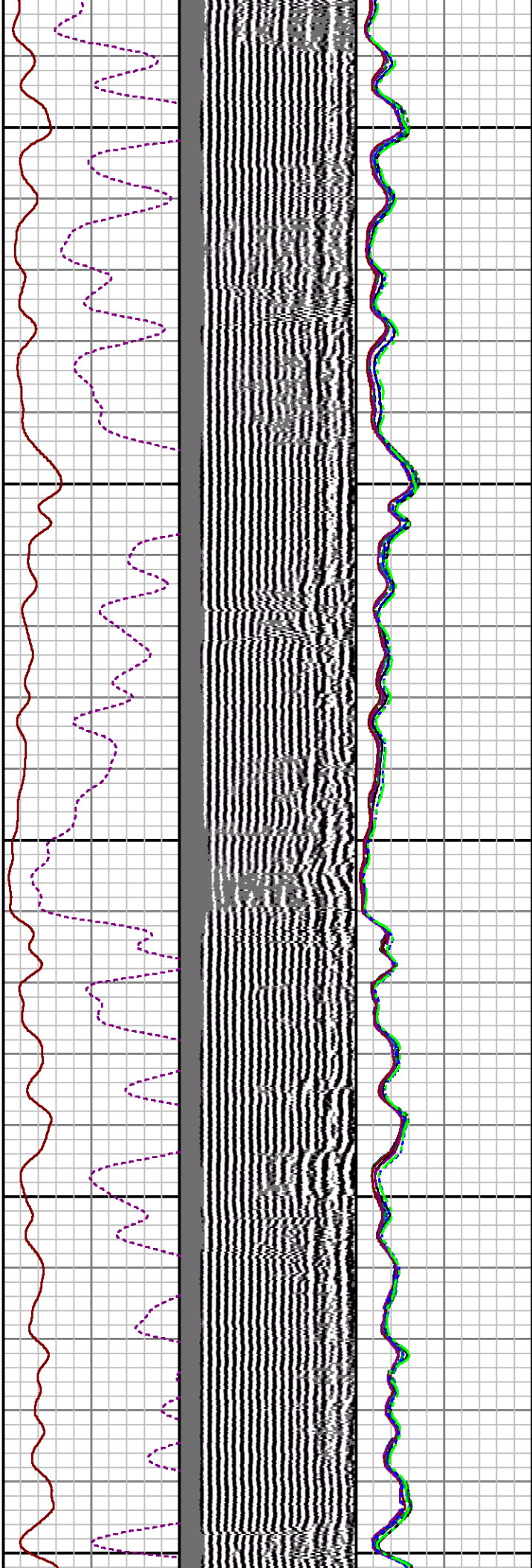


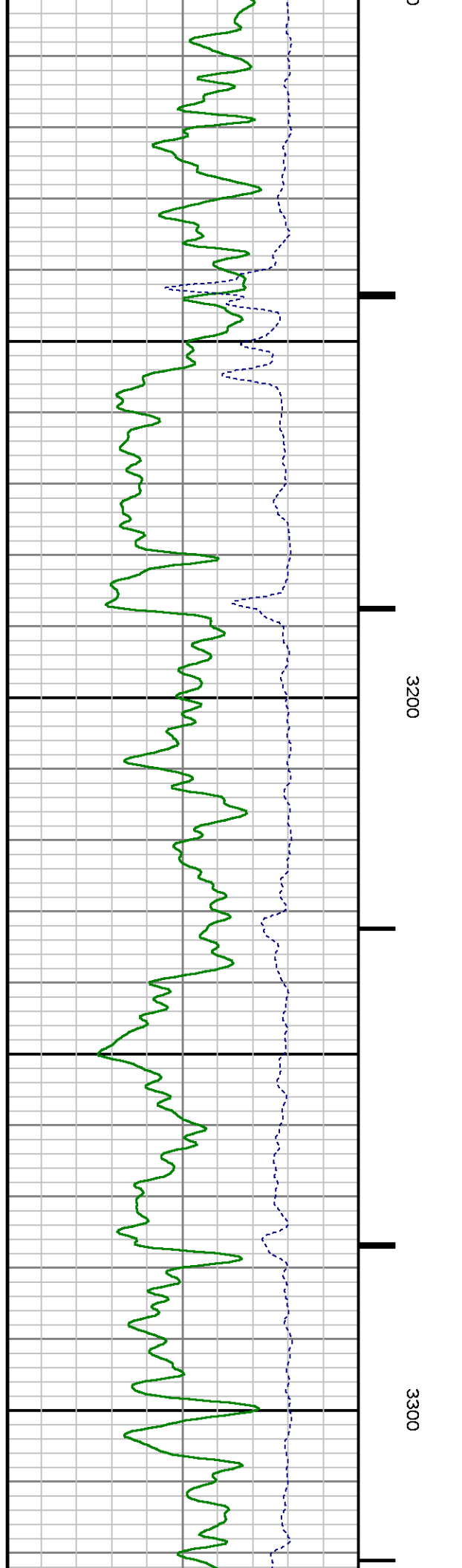
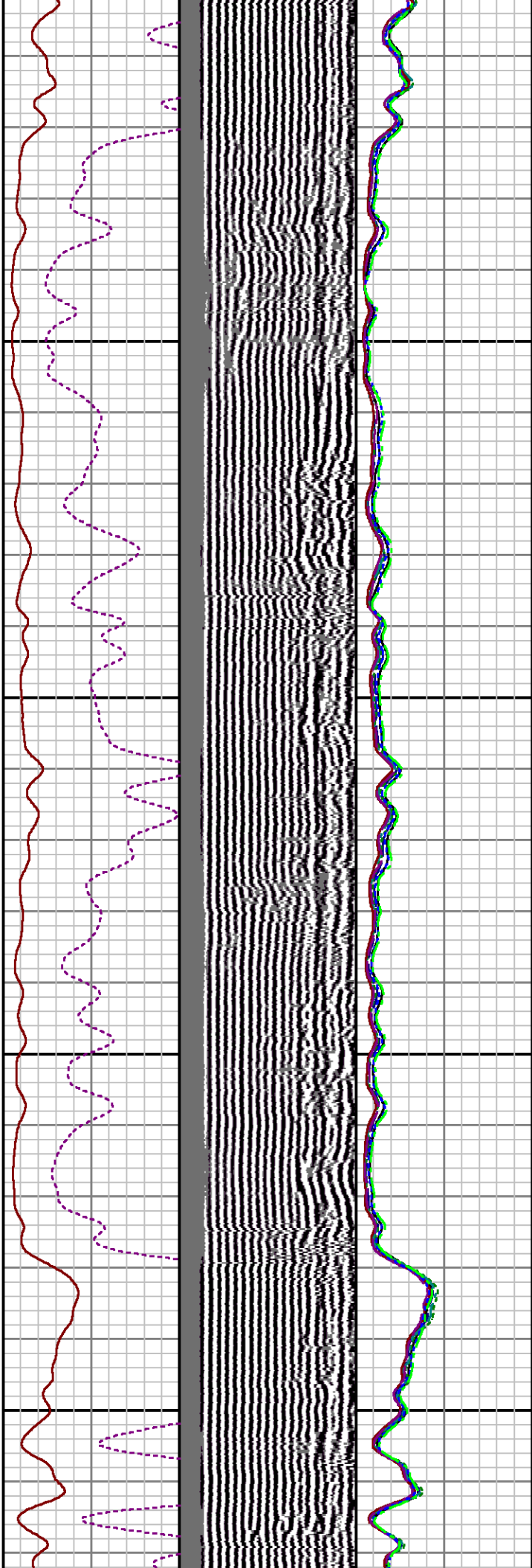
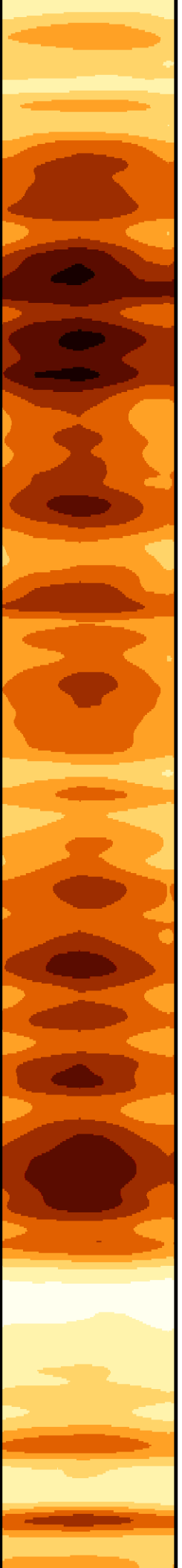


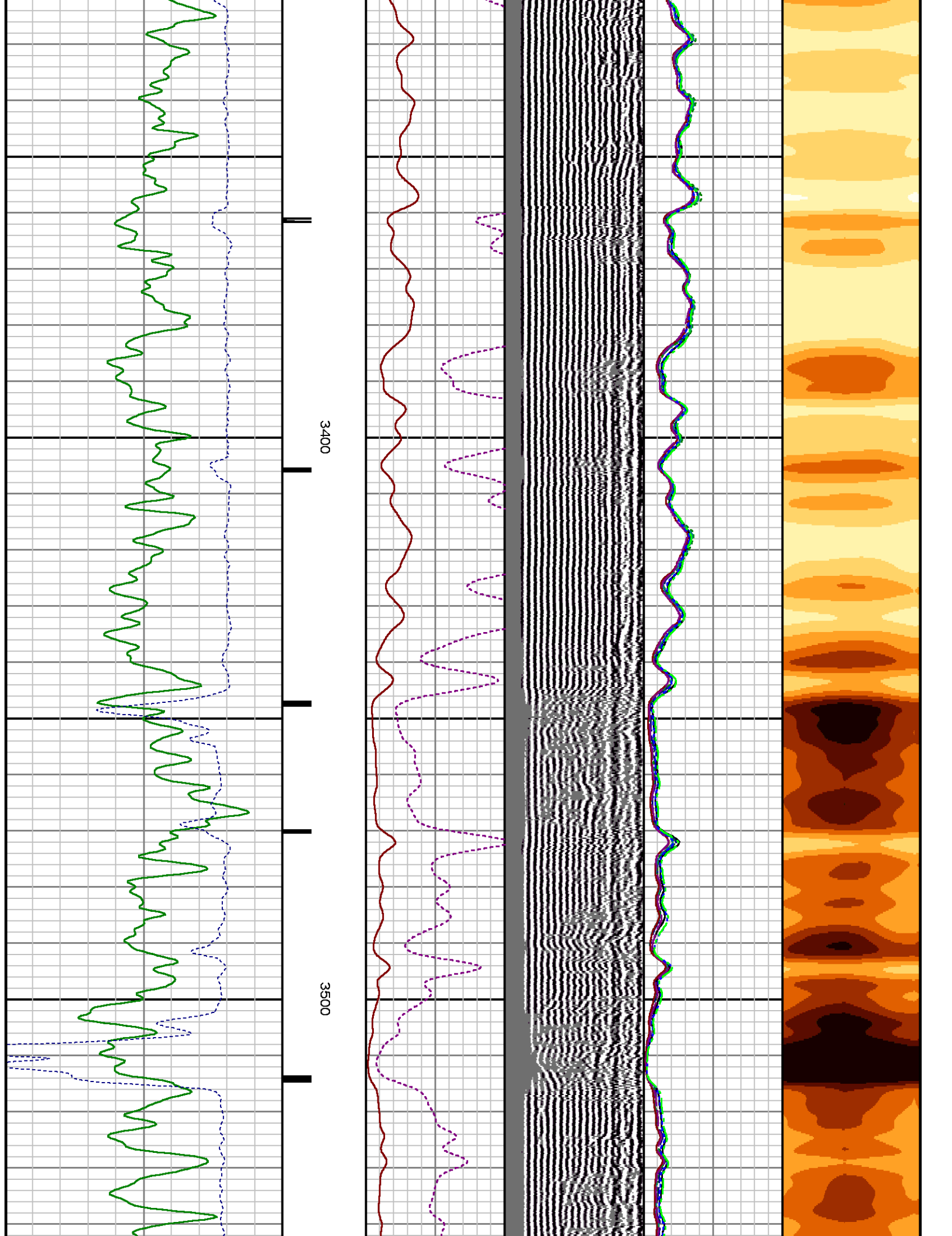
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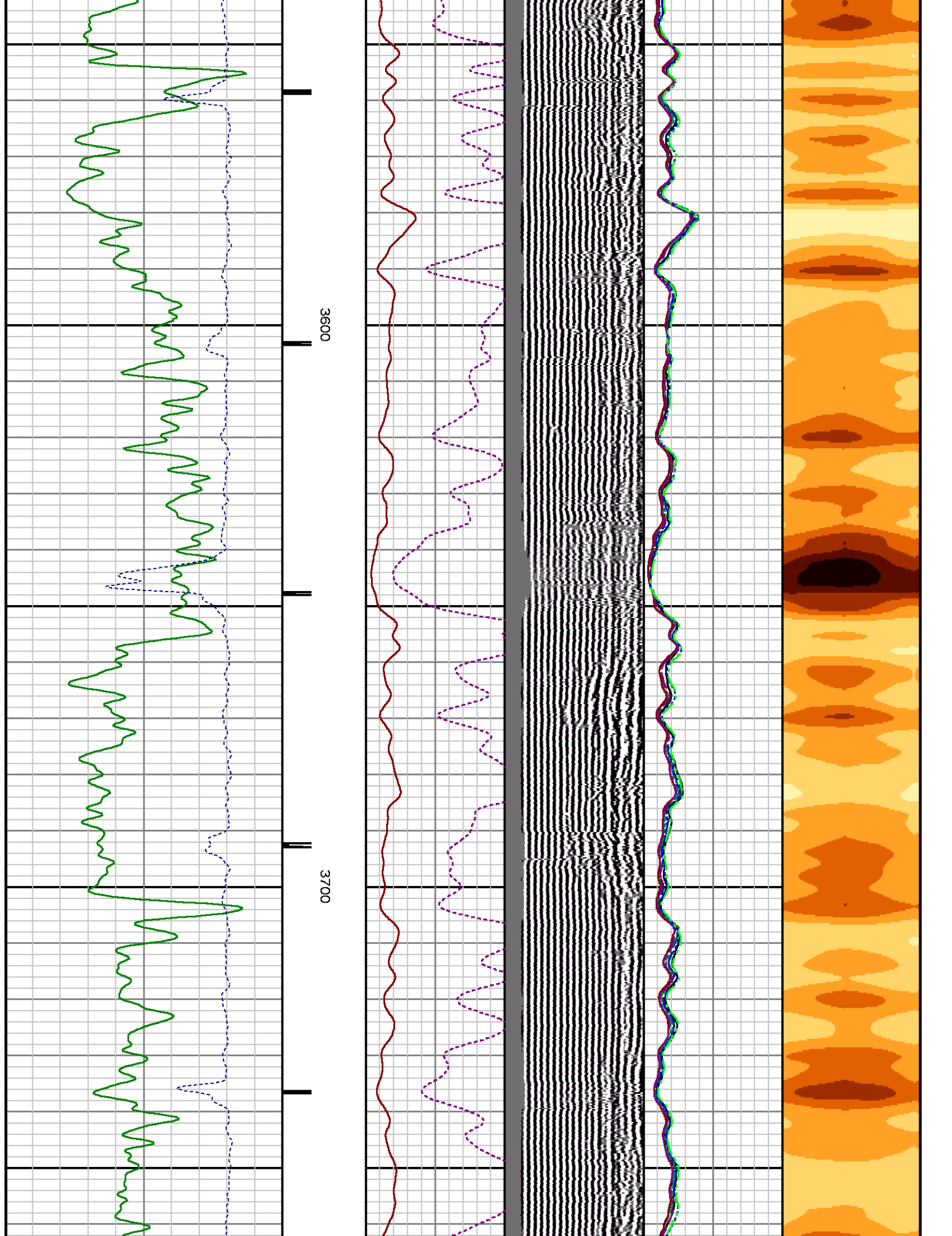
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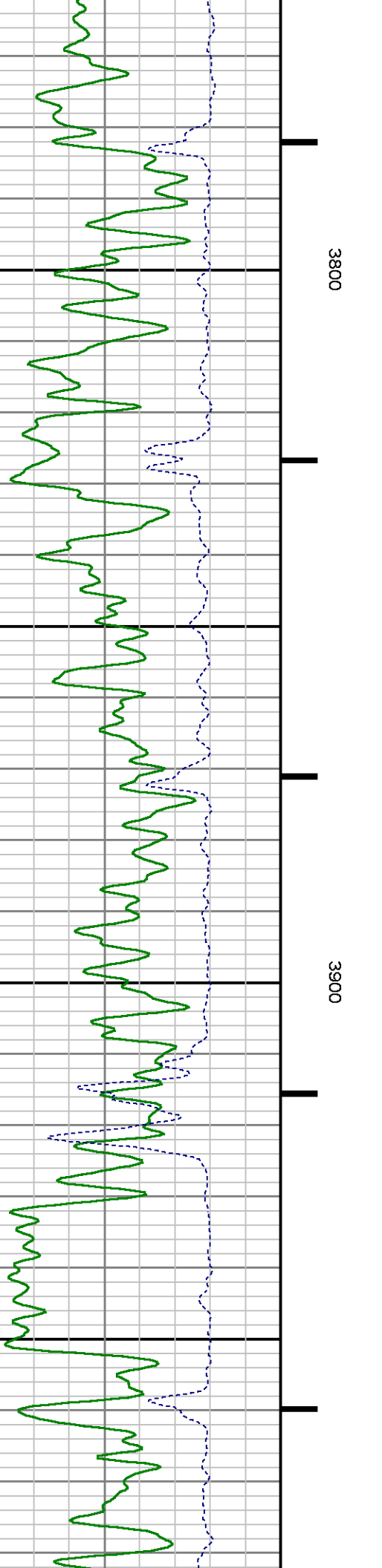
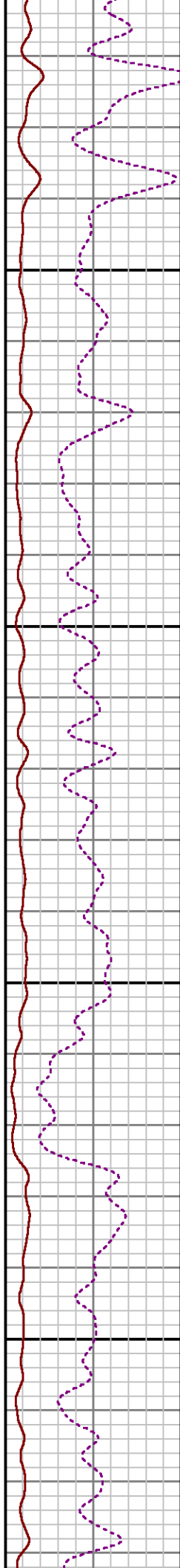
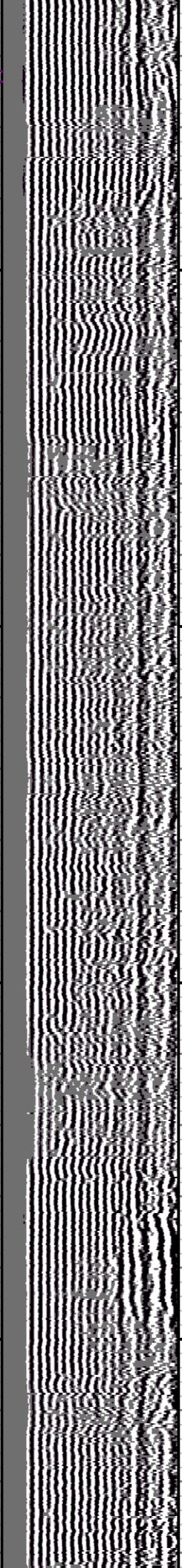
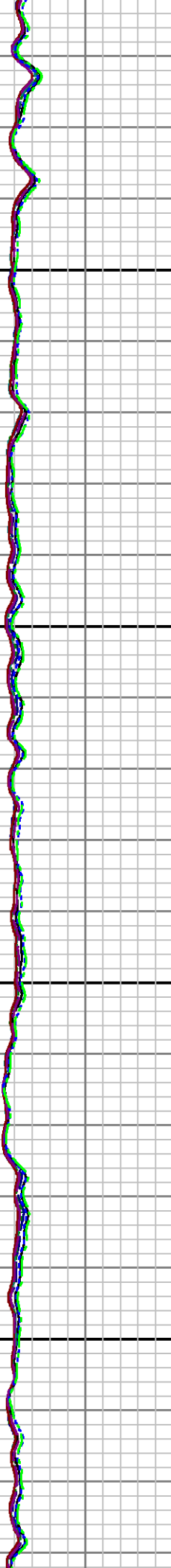
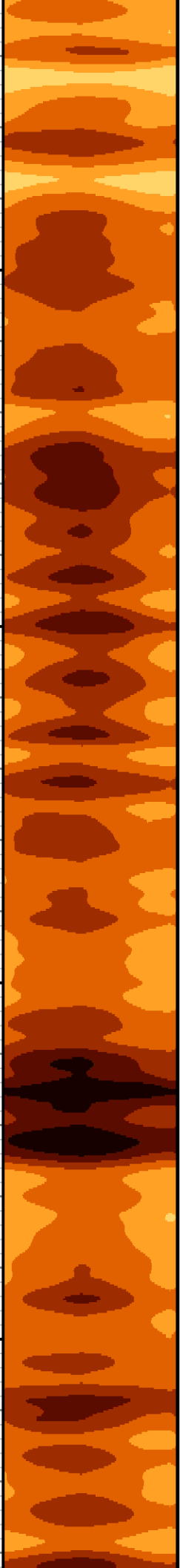


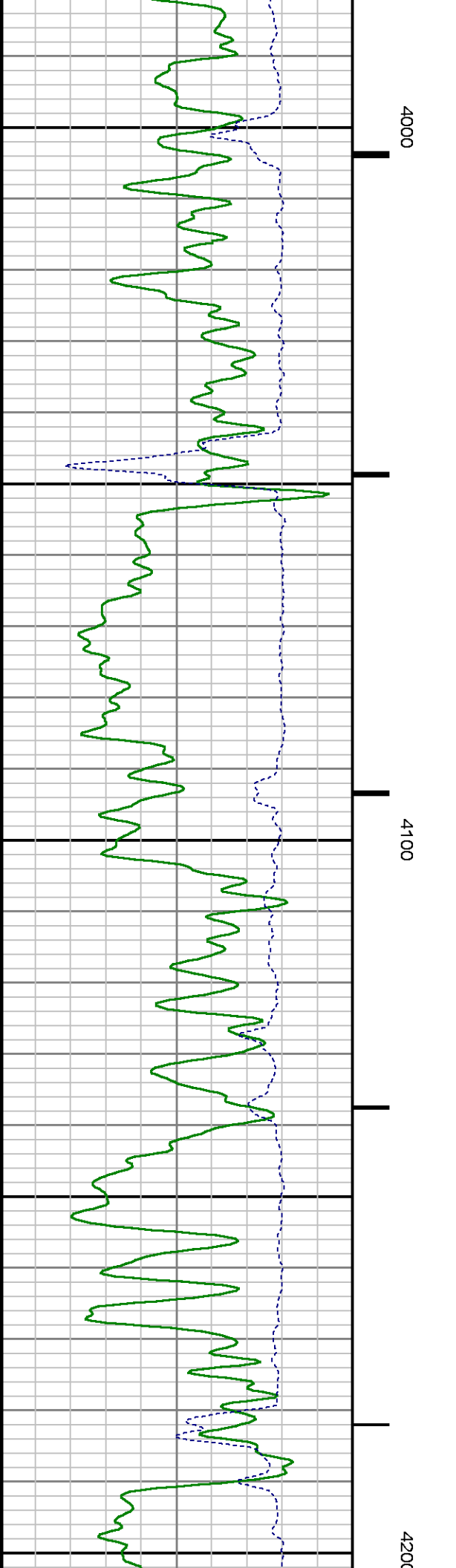
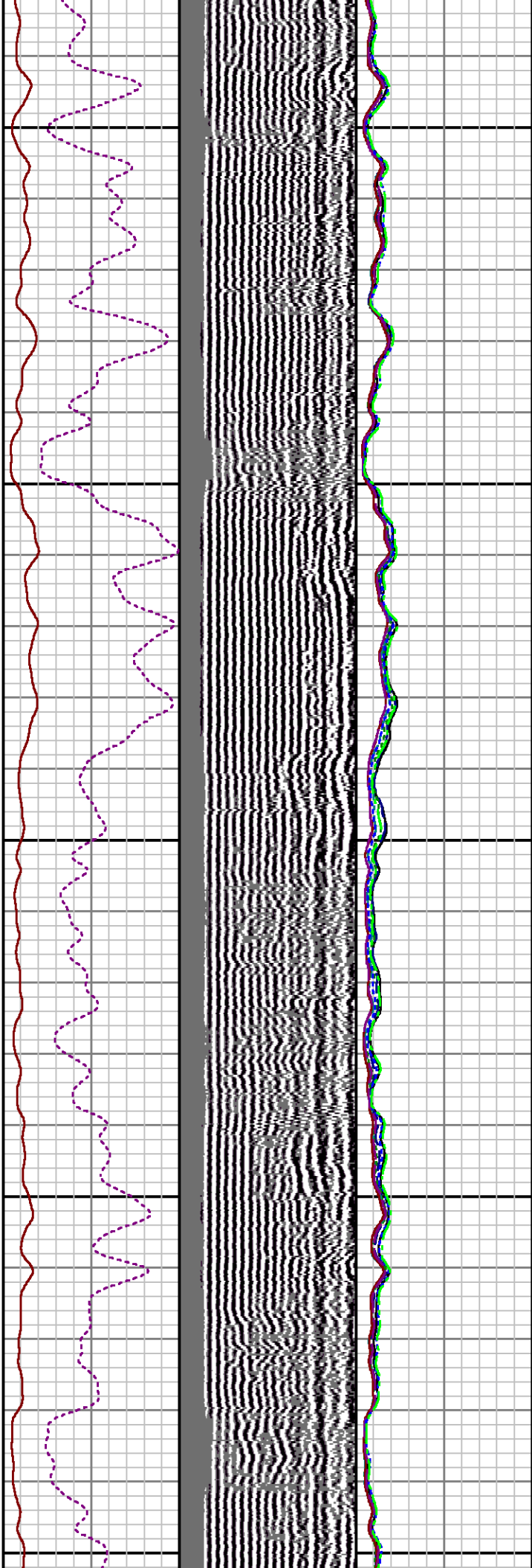
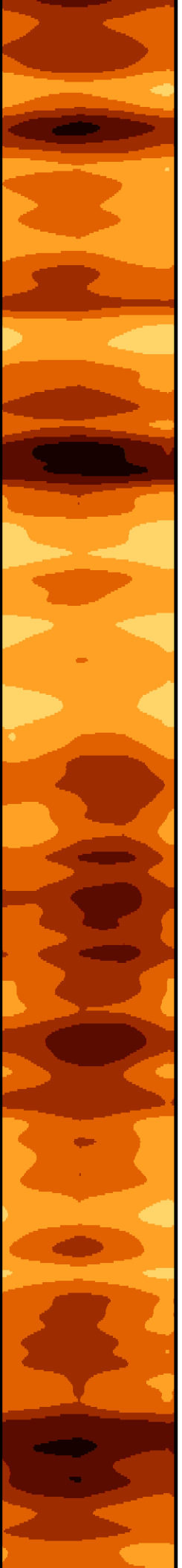


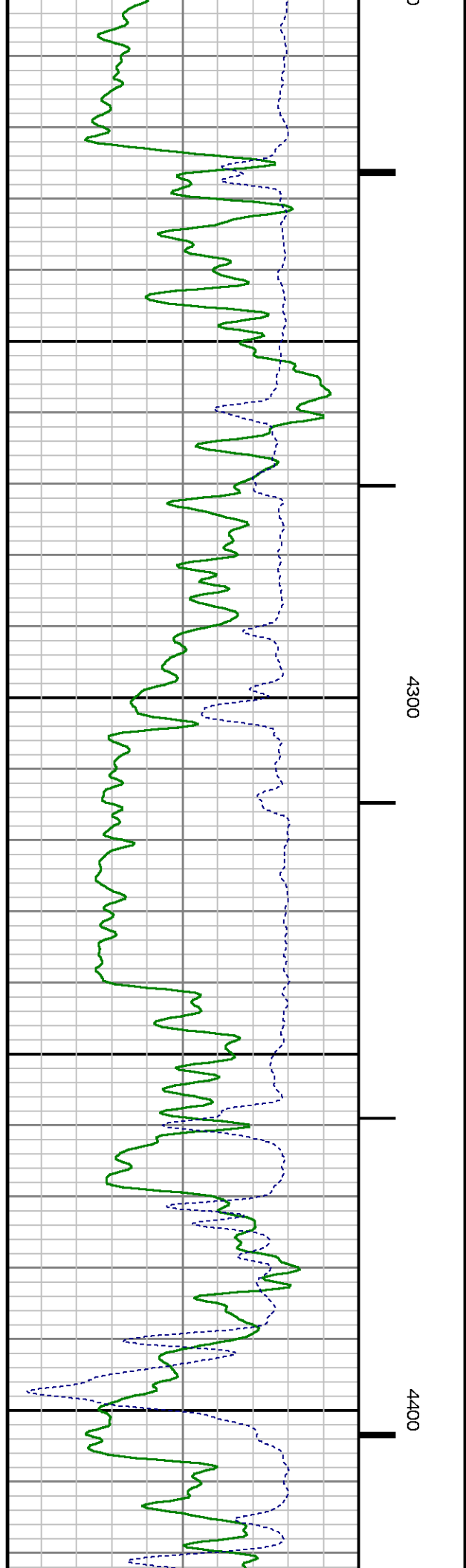
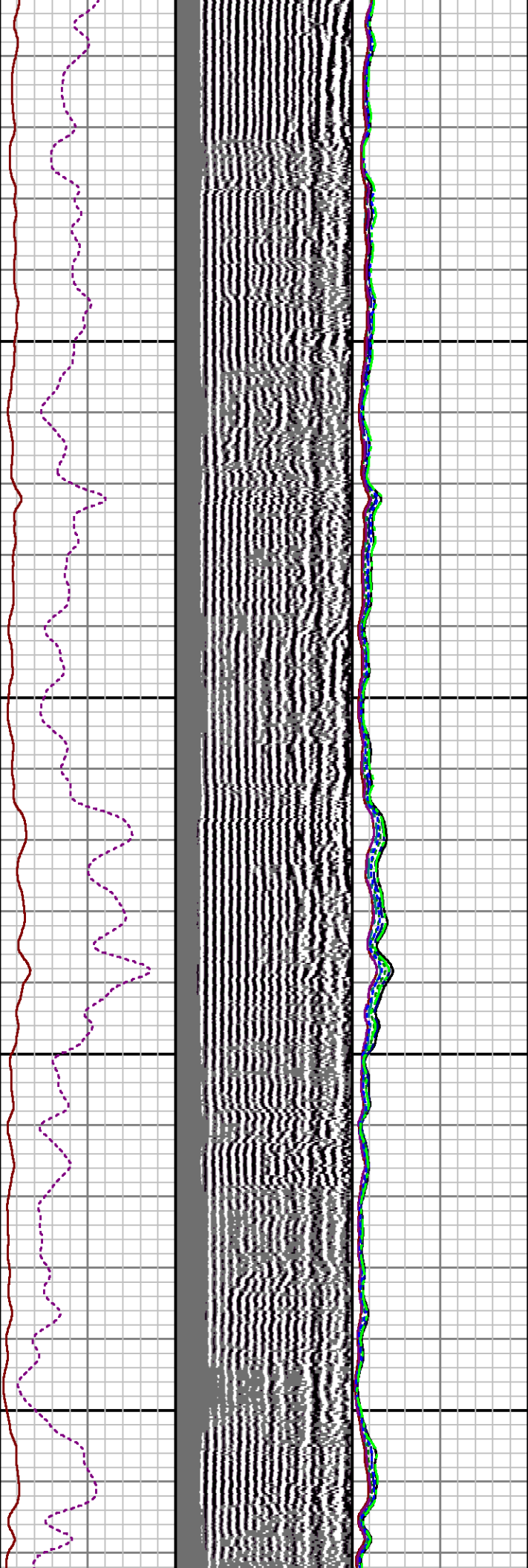
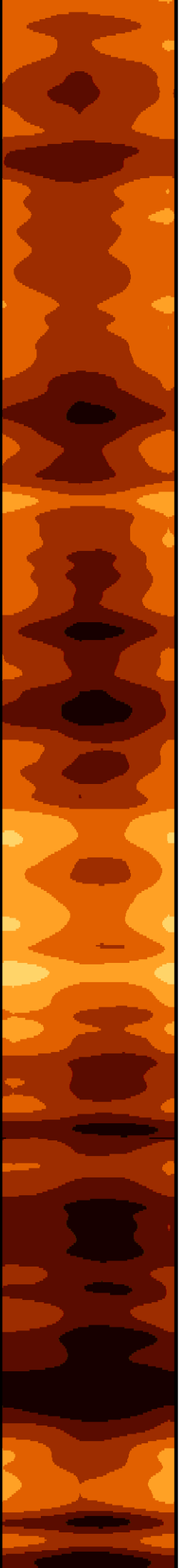


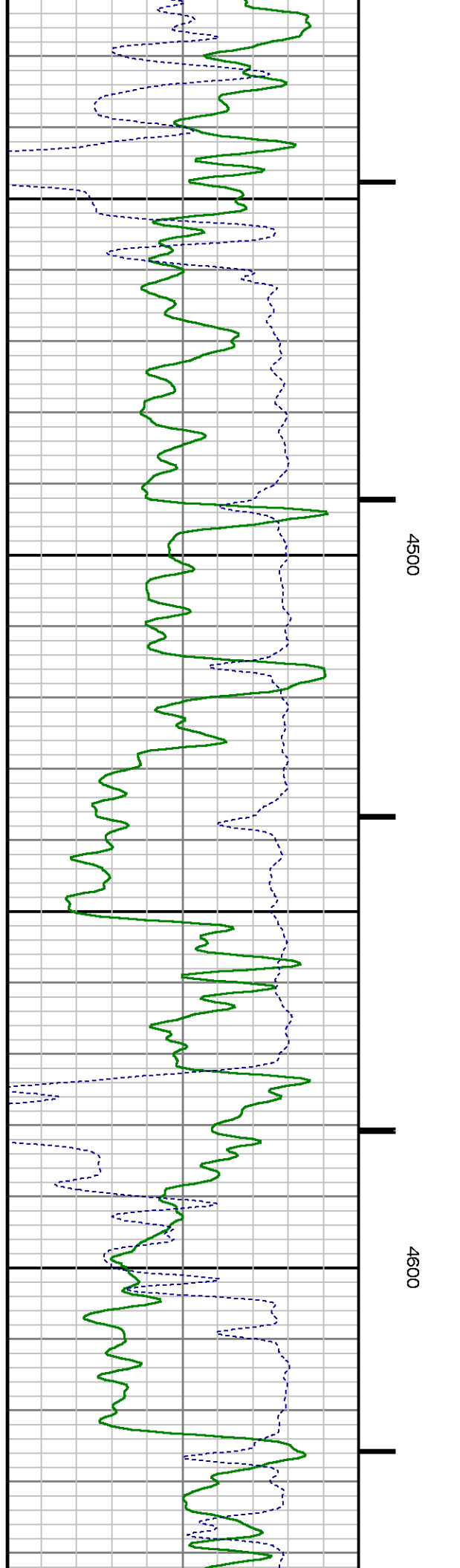
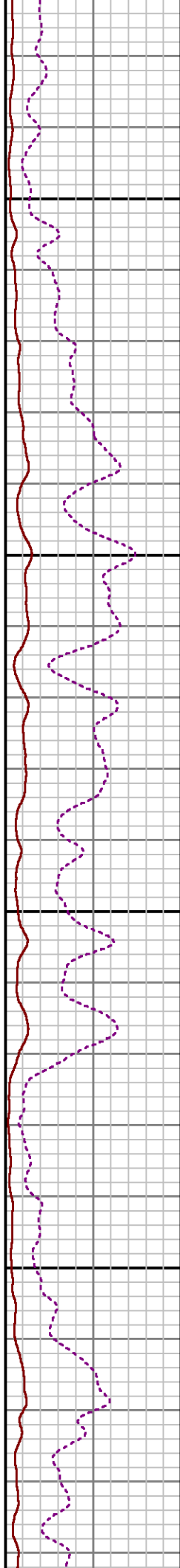
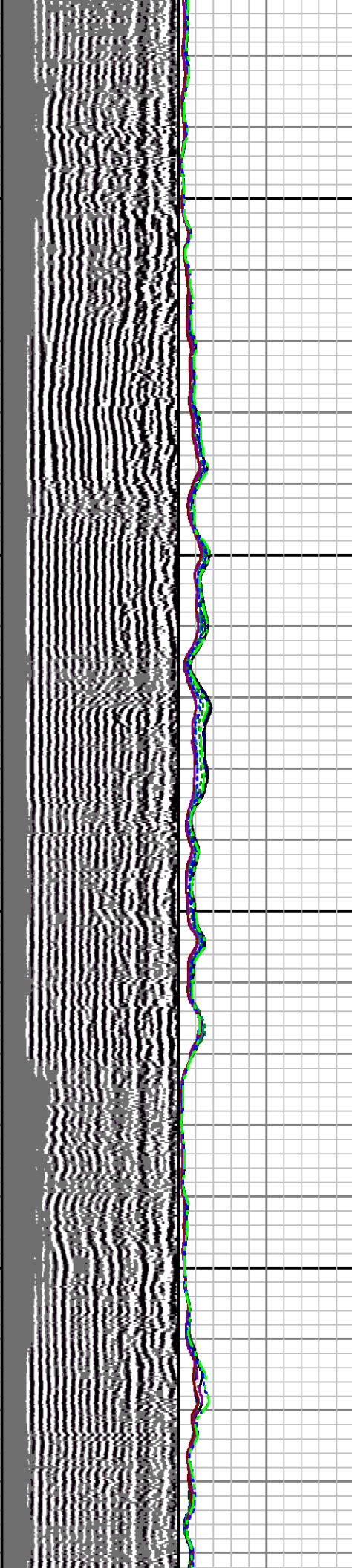
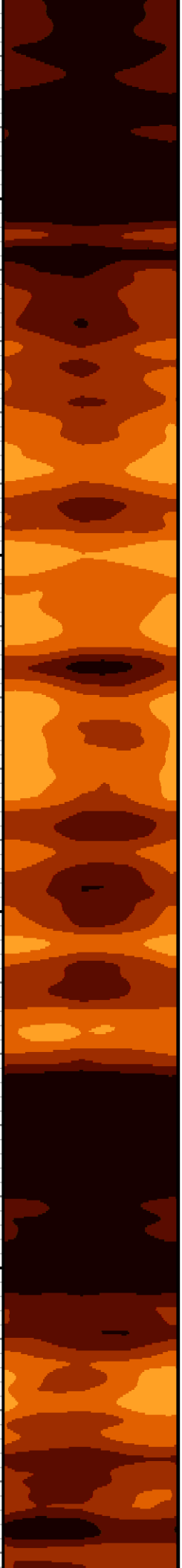


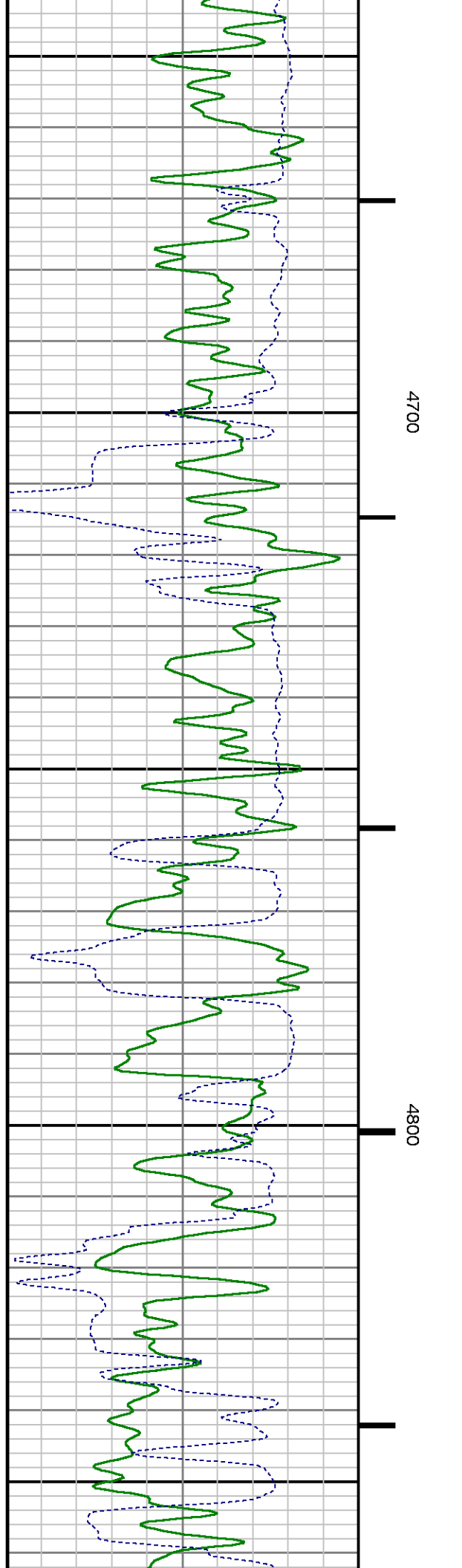
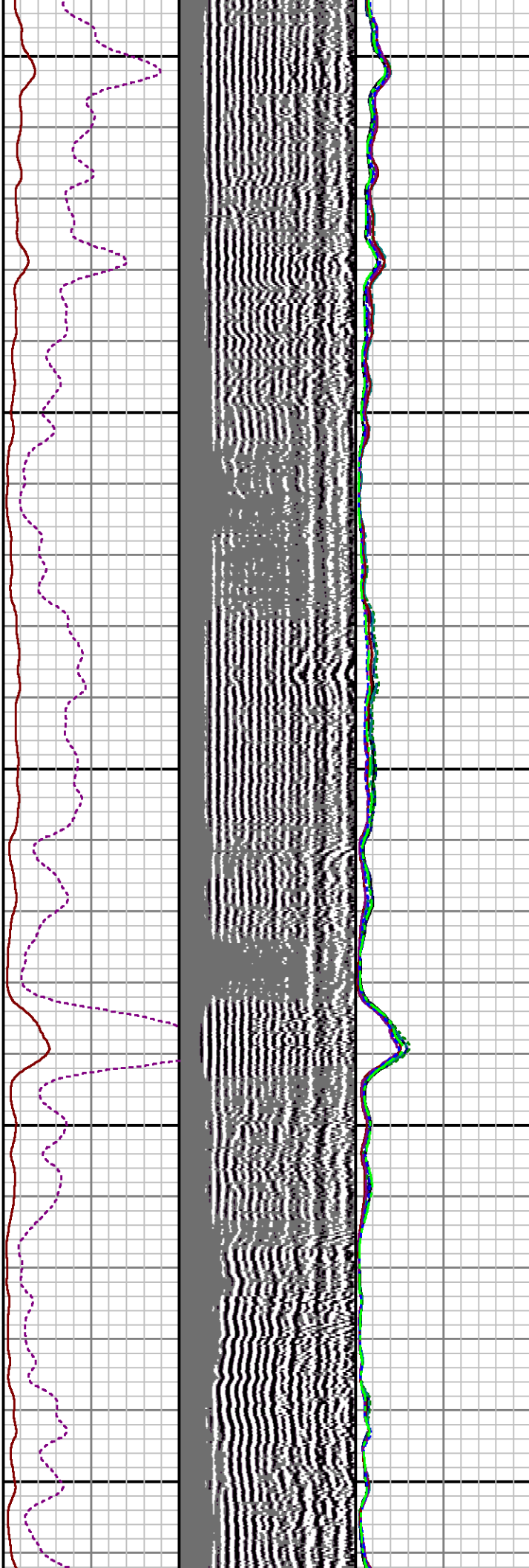
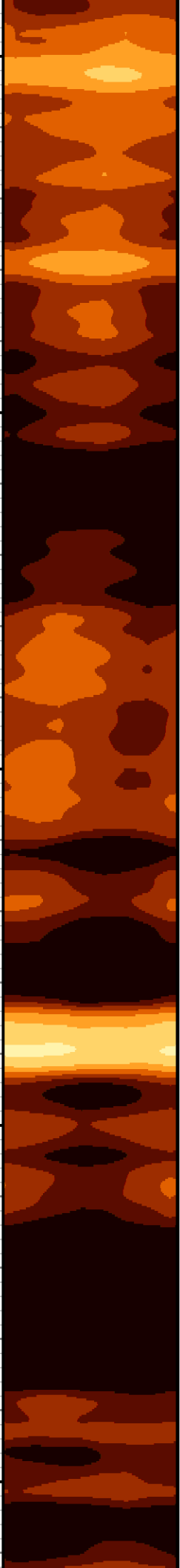


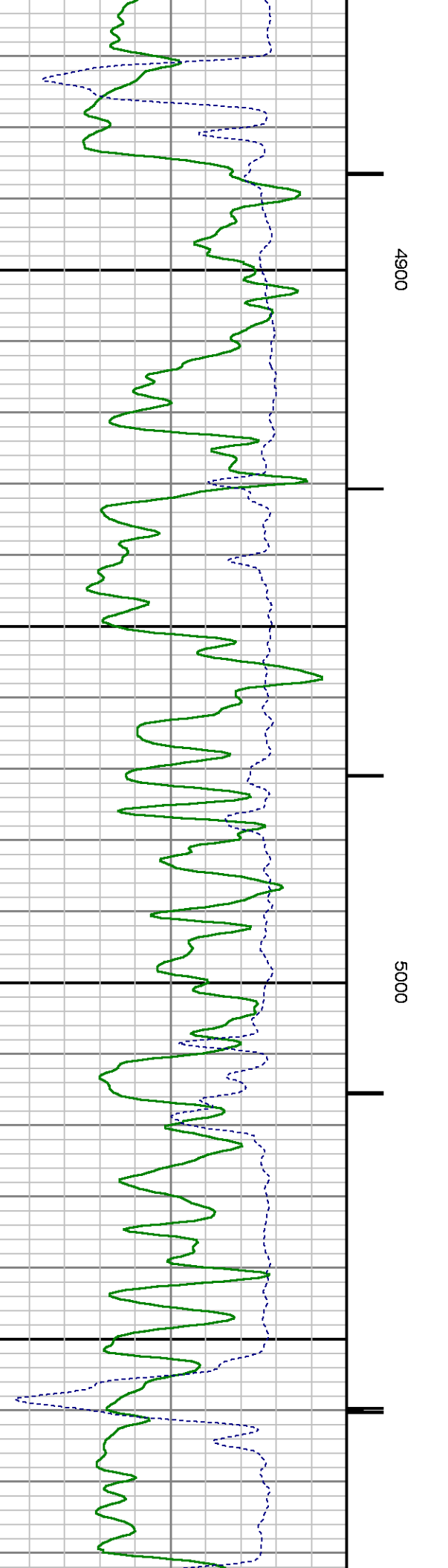
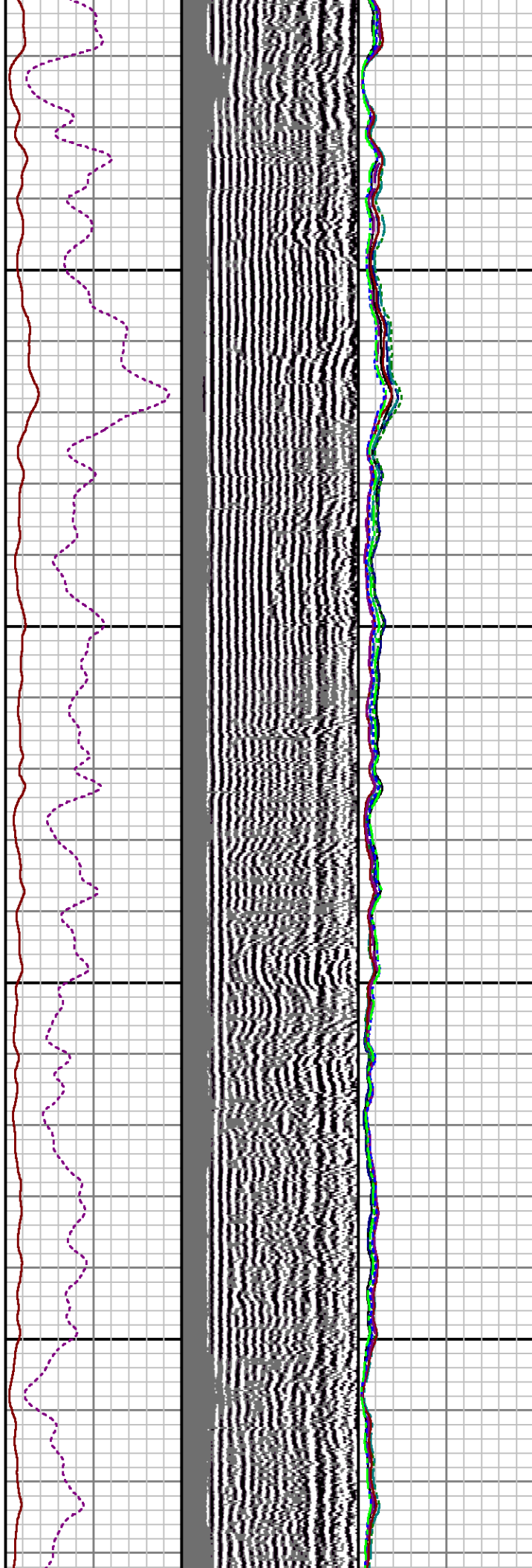
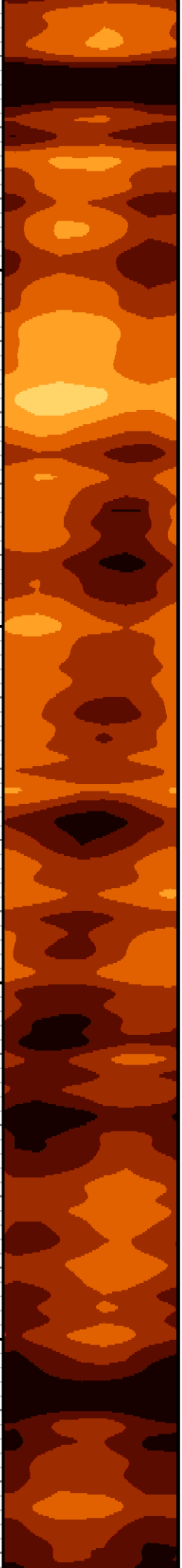


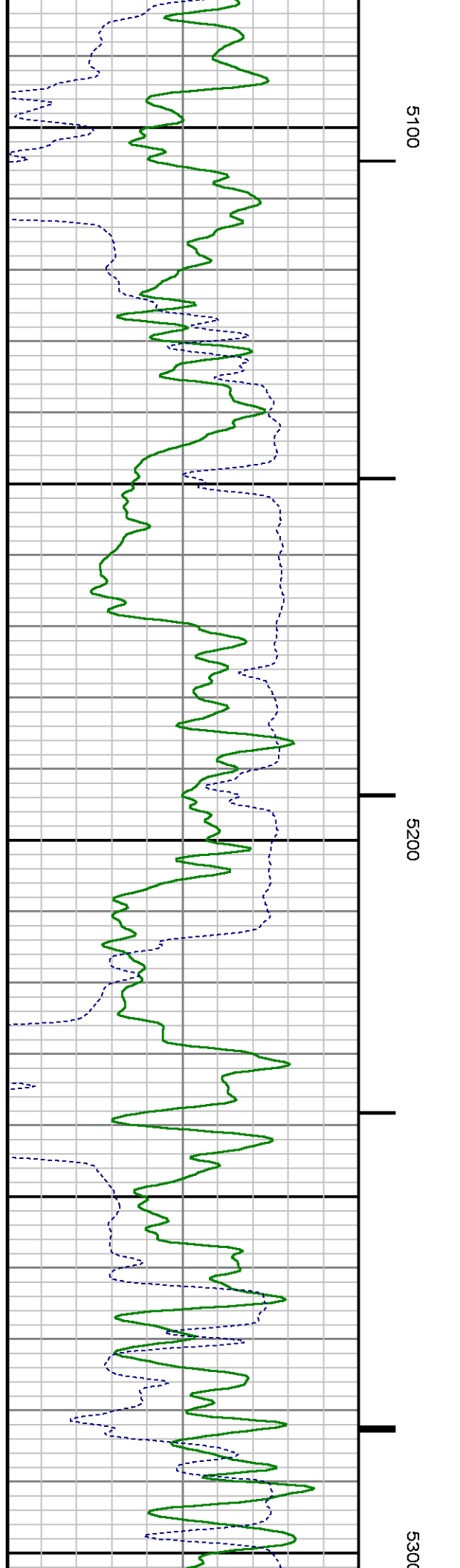
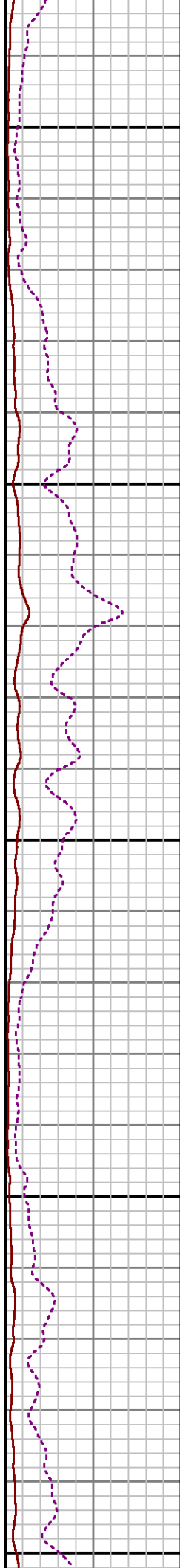
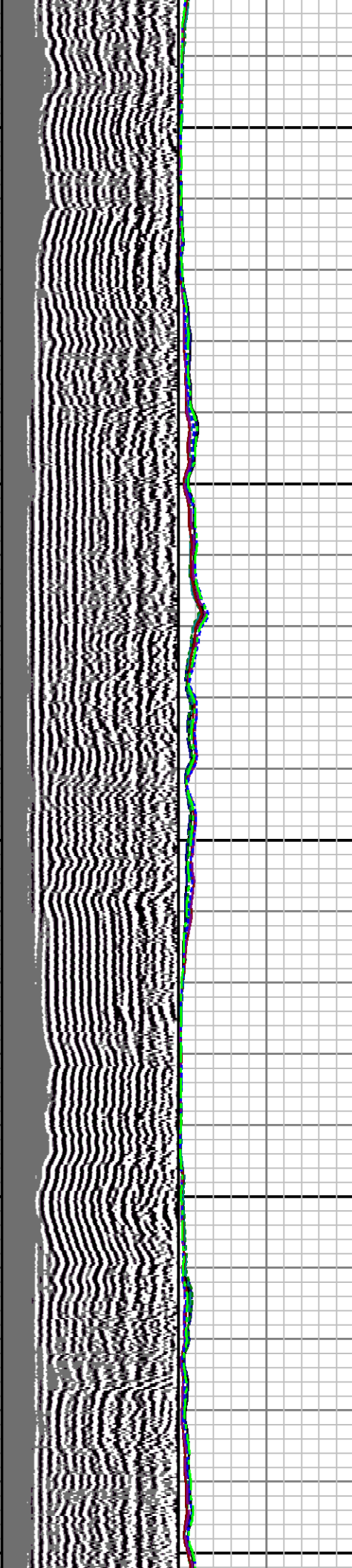
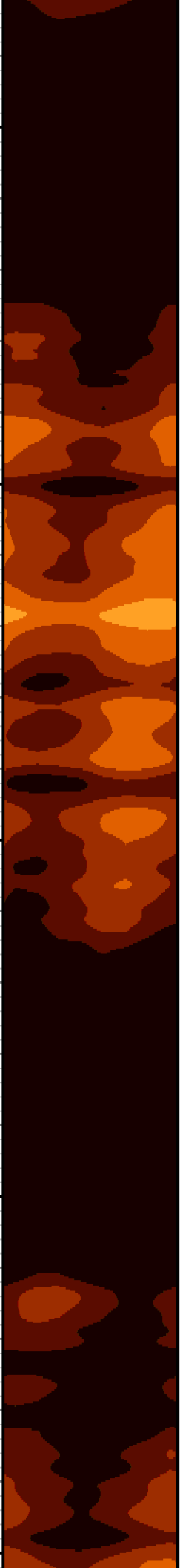


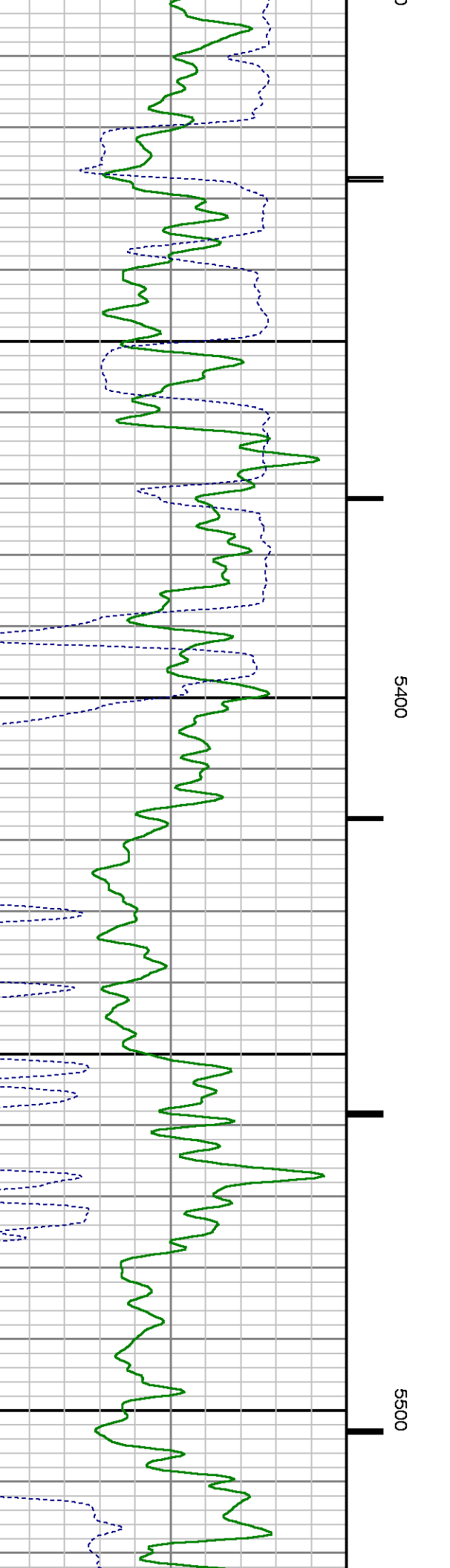
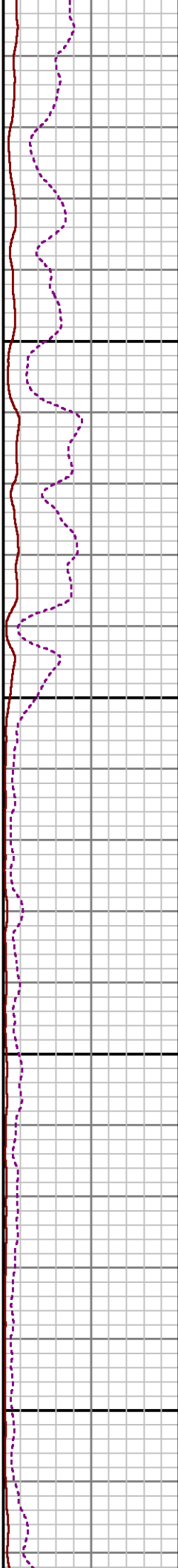
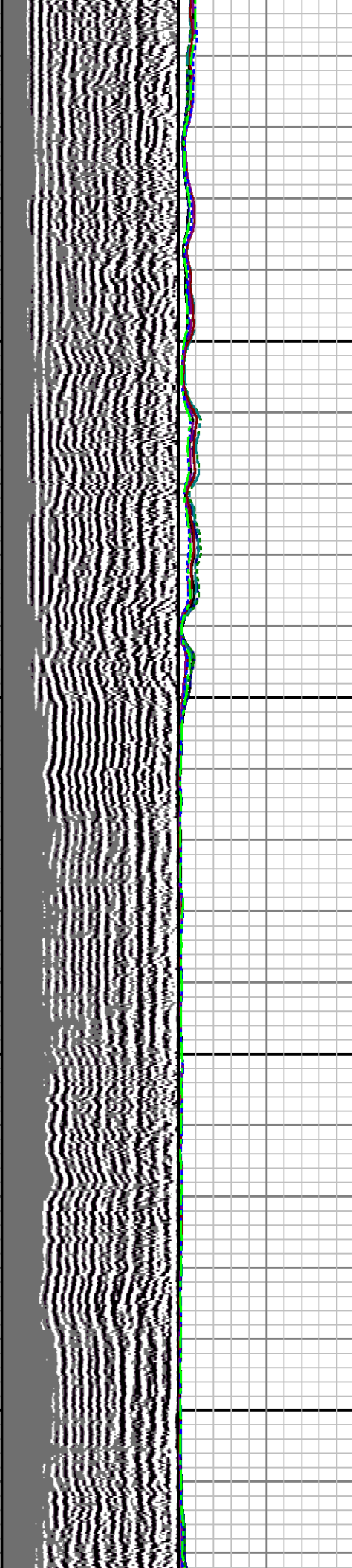
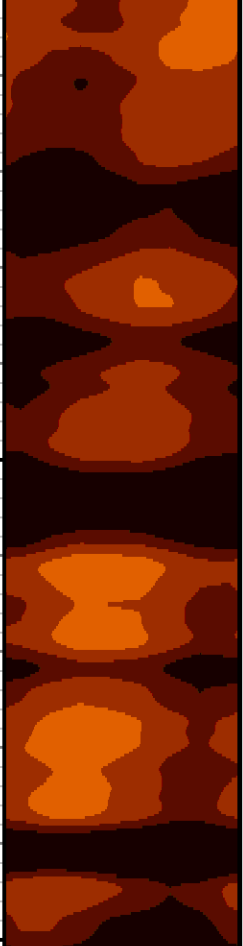


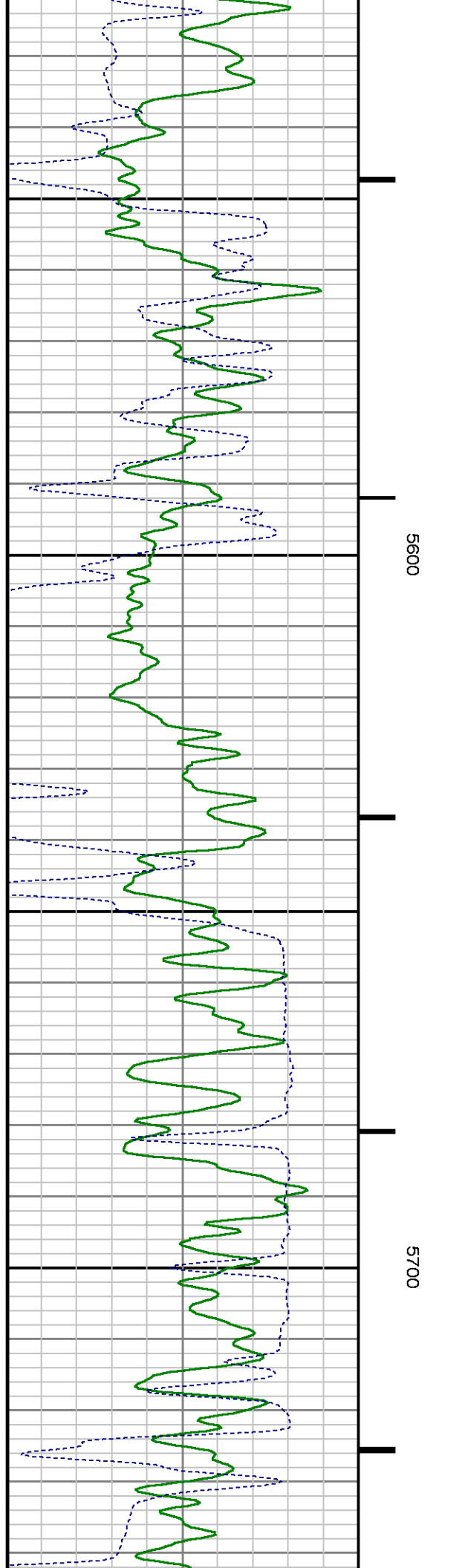
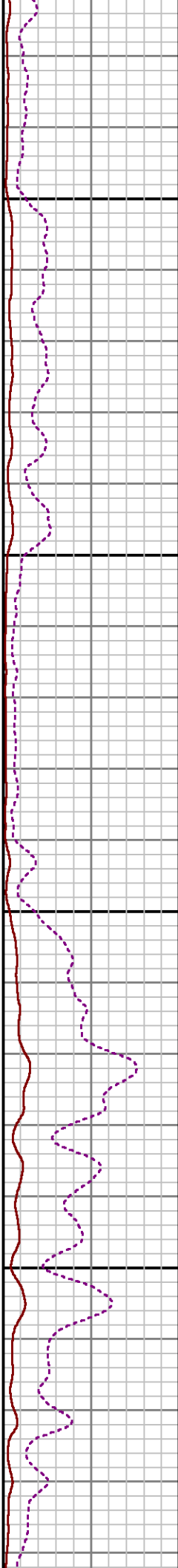
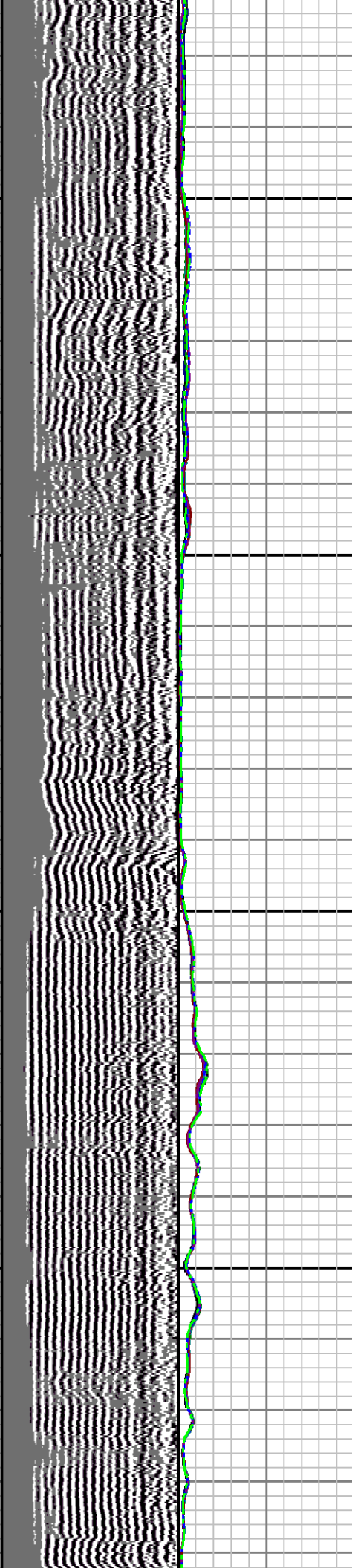
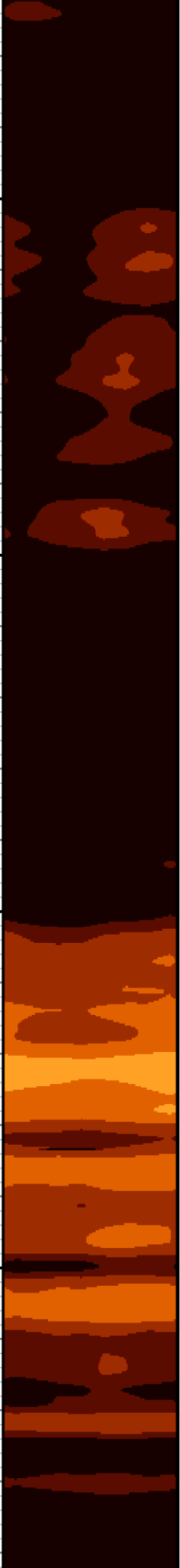


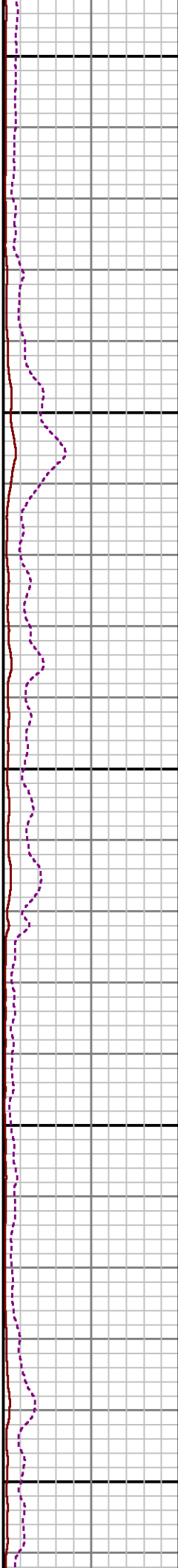
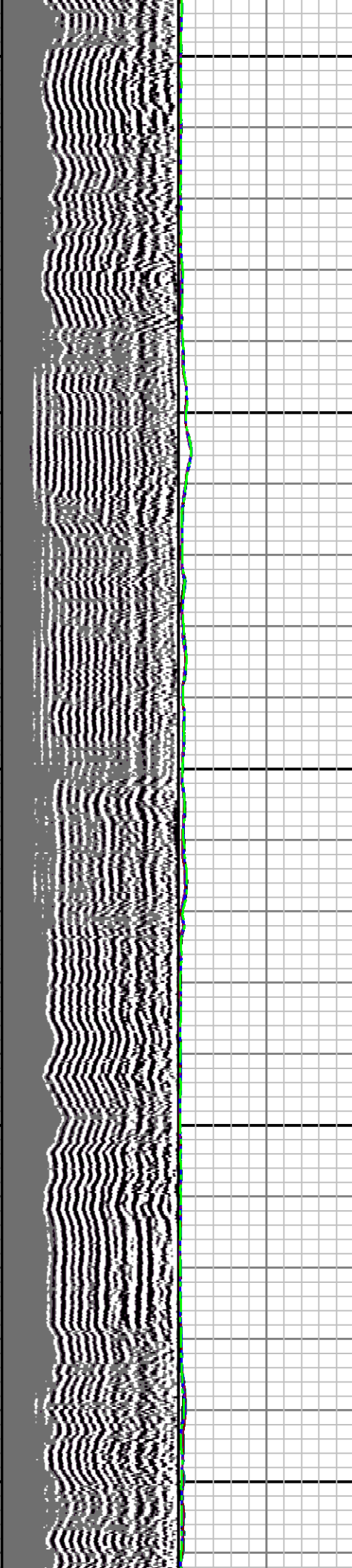
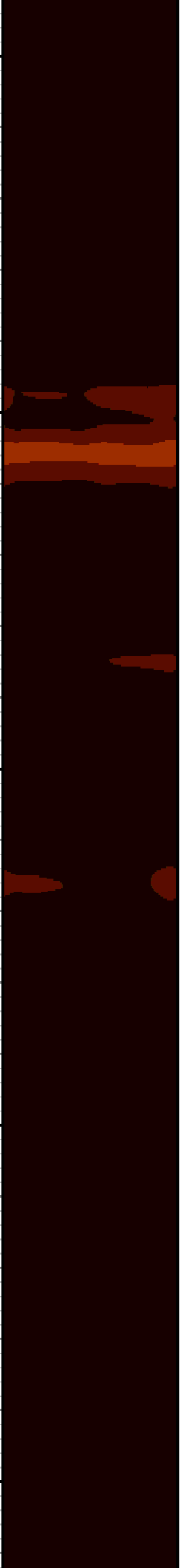






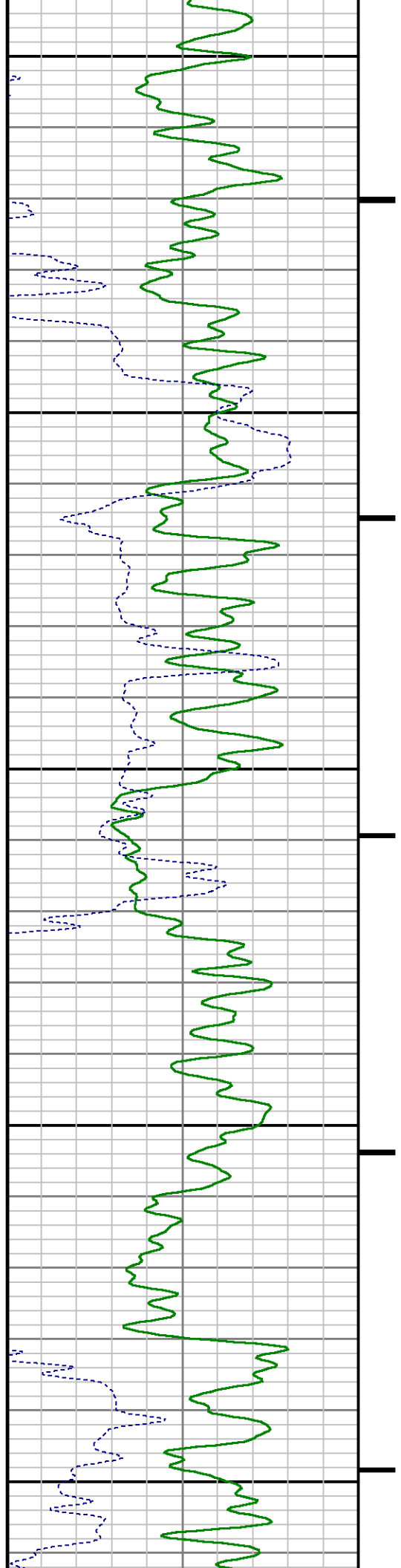


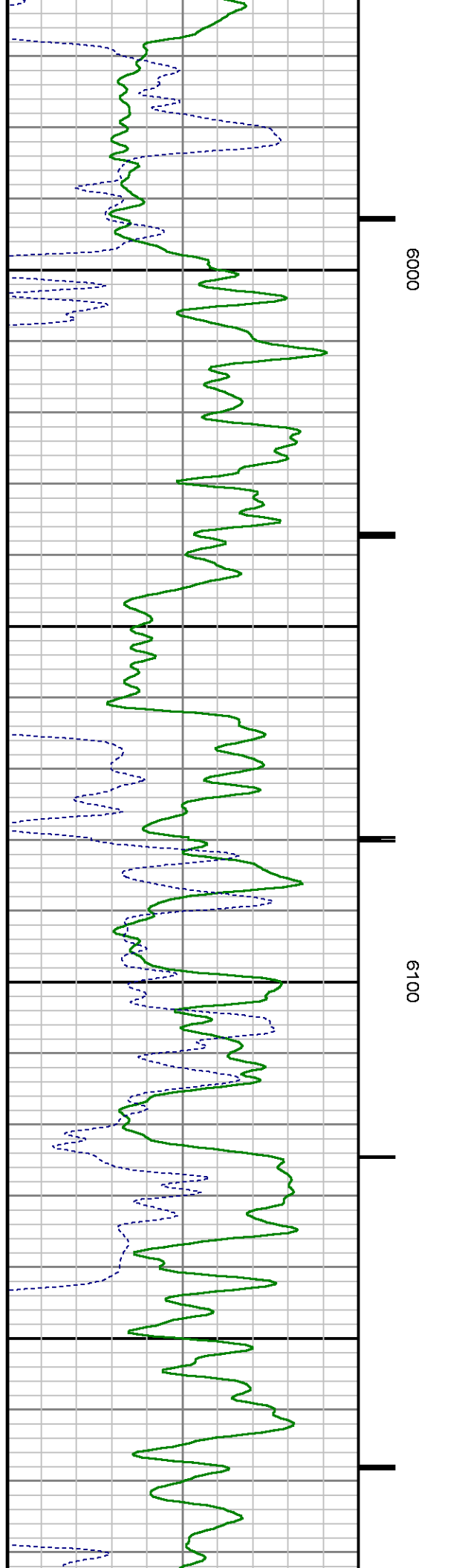
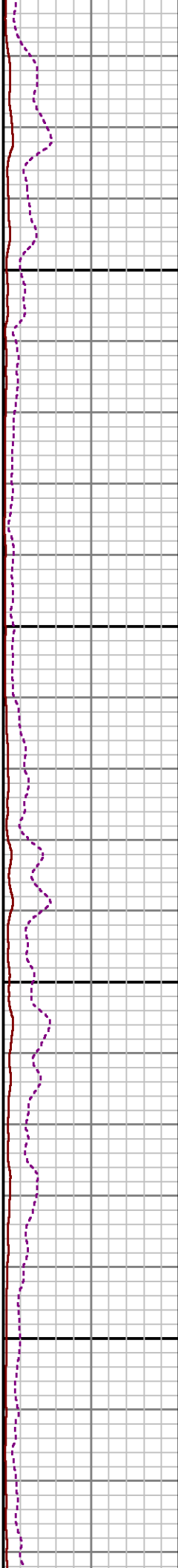
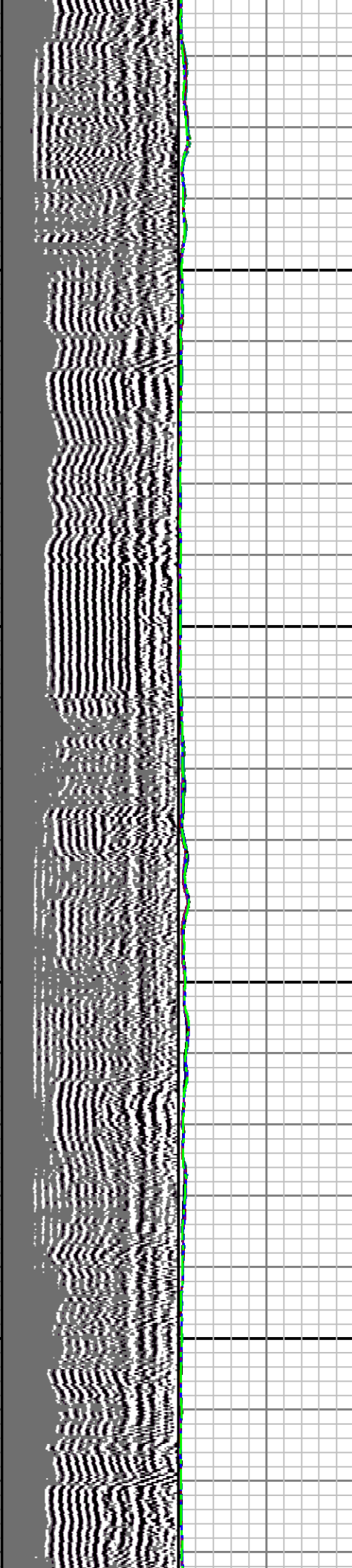


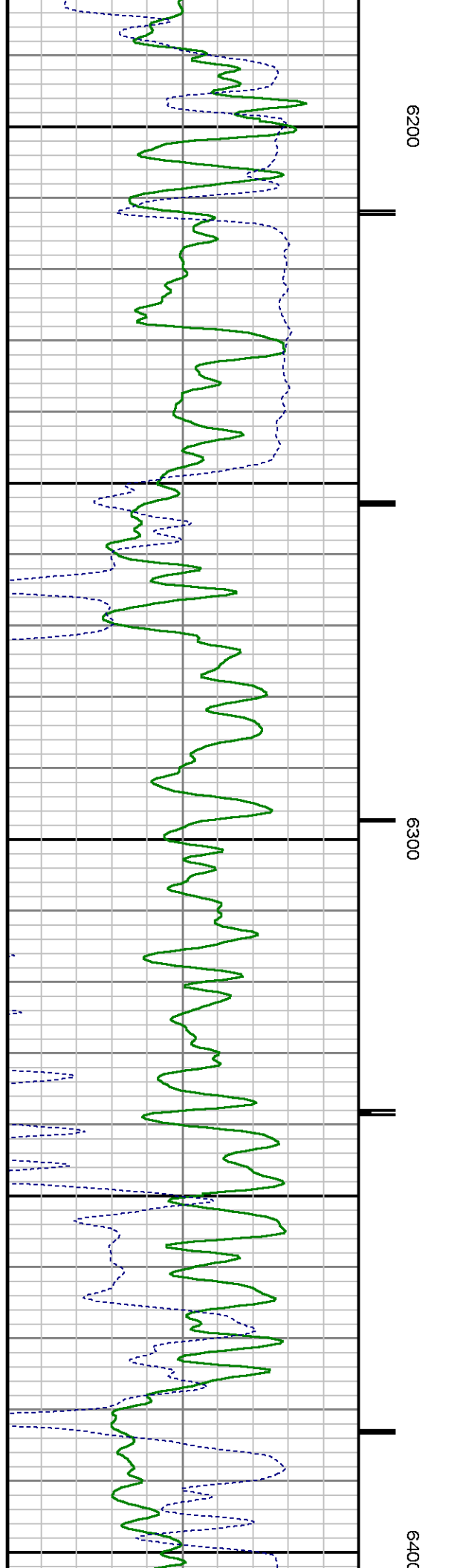
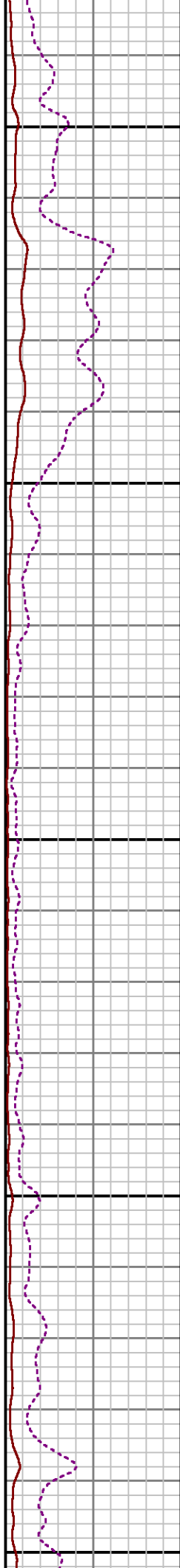
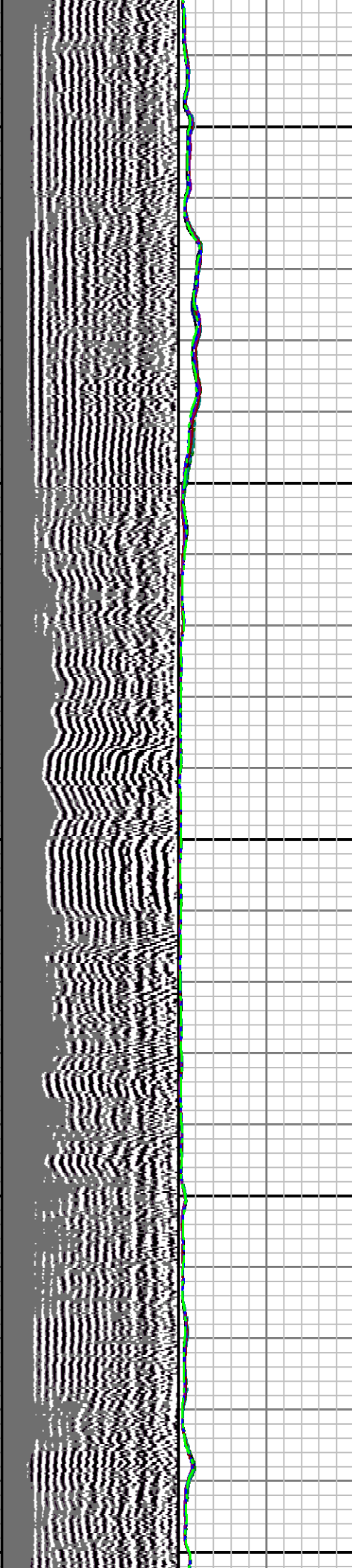


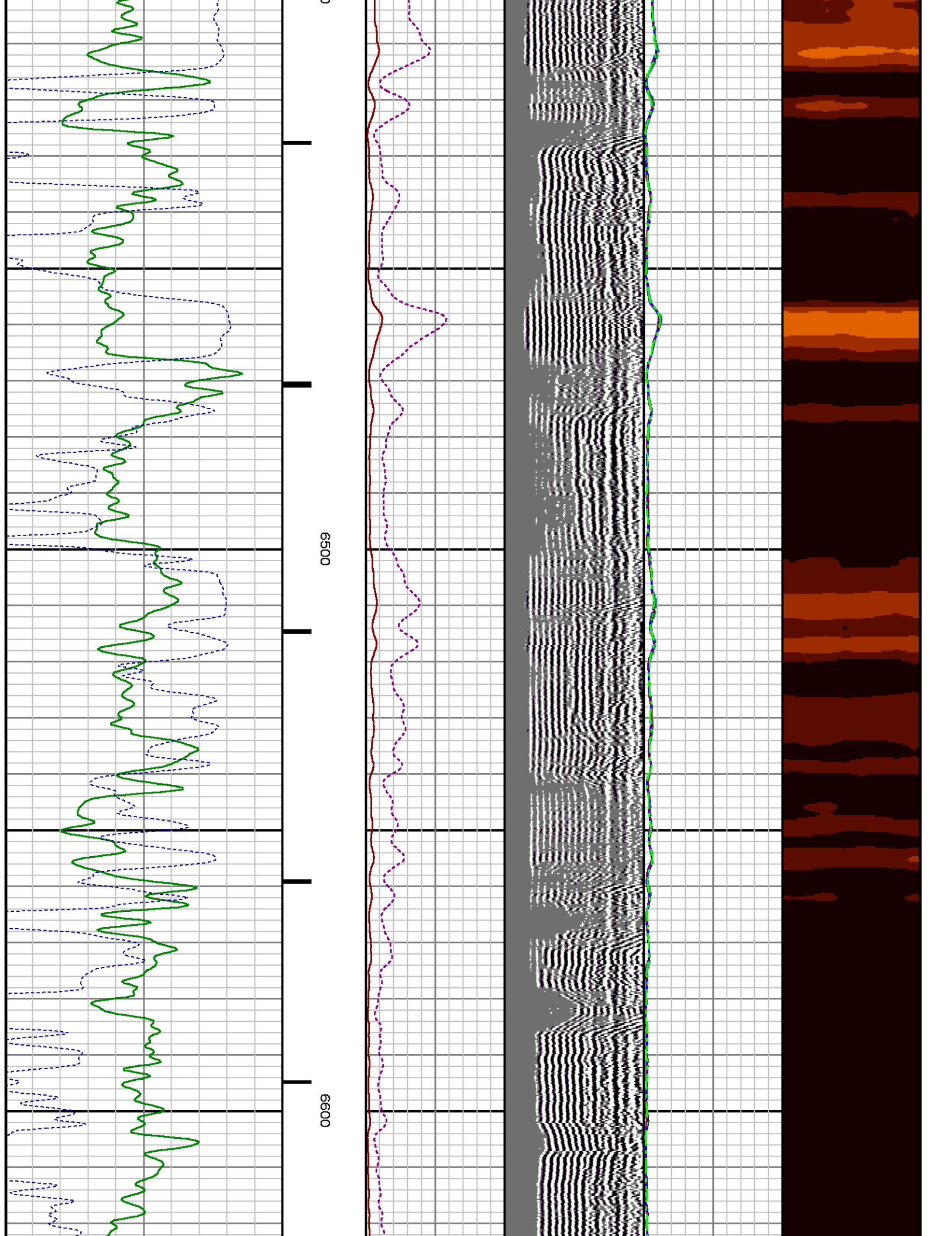
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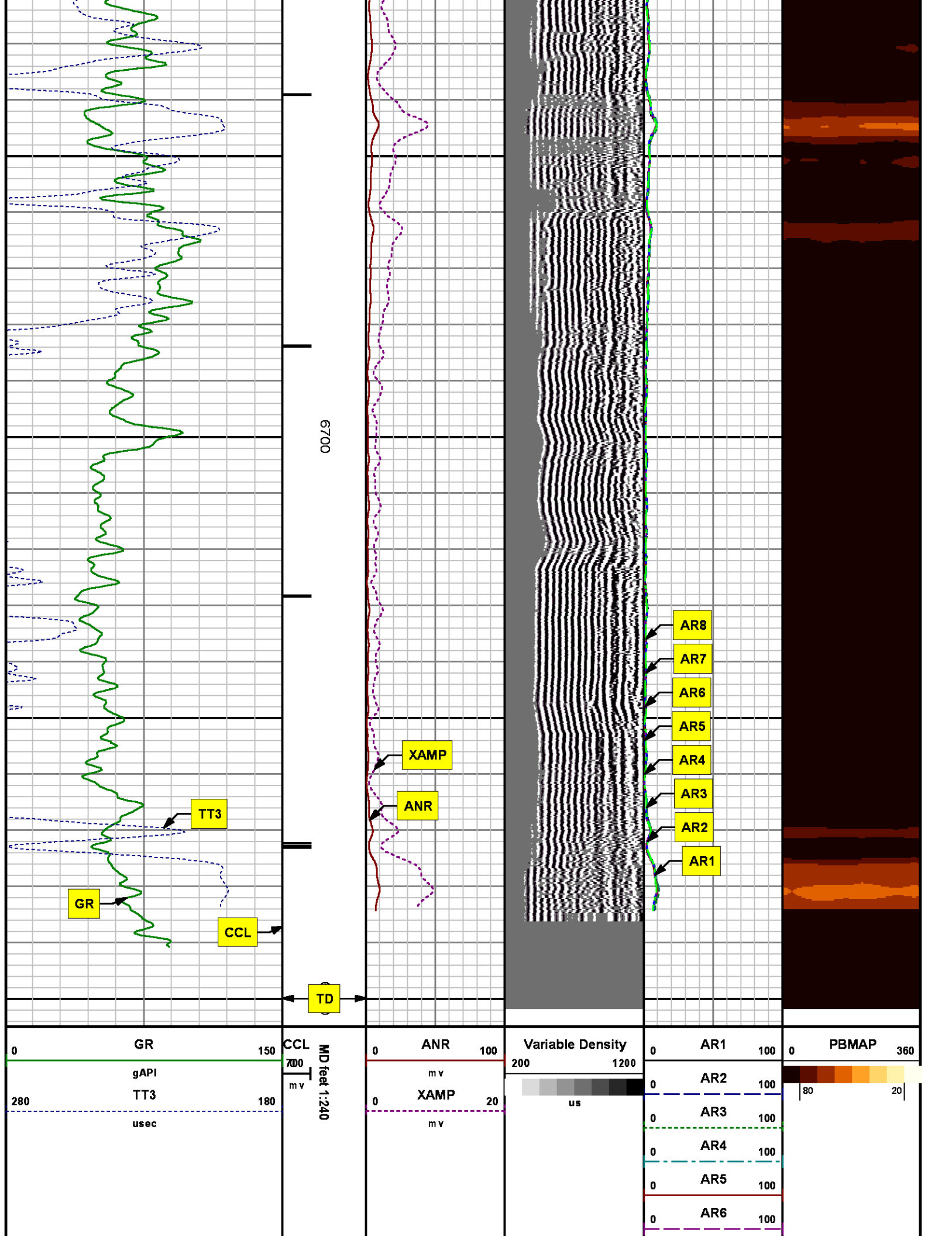
5900











0 AR7 100

0 AR8 100

*REPEAT SECTION
0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	6469.876	6800.939
RAL	Amp Gate Start Near	195.000	usec	6469.876	6800.939
RAL	Amp Gate Start Radial	195.000	usec	6469.876	6800.939
RAL	Amp Gate Width Far	25.000	usec	6469.876	6800.939
RAL	Amp Gate Width Near	25.000	usec	6469.876	6800.939
RAL	Amp Gate Width Radial	25.000	usec	6469.876	6800.939
RAL	casing od	4.500	inches	6469.876	6800.939
RAL	casing wt	11.600	lbm/ft	6469.876	6800.939
RAL	FB Start Far	291.900	usec	6469.876	6800.939
RAL	FB Start Near	175.391	usec	6469.876	6800.939
RAL	FB Start Radial	175.391	usec	6469.876	6800.939
RAL	FB Thresh Far	10.000	mV	6469.876	6800.939
RAL	FB Thresh Near	4.000	mV	6469.876	6800.939
RAL	FB Thresh Radial	4.000	mV	6469.876	6800.939
RAL	Fluid Travel Time	200.000	usec/ft	6469.876	6800.939

DEPTH OFFSETS

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

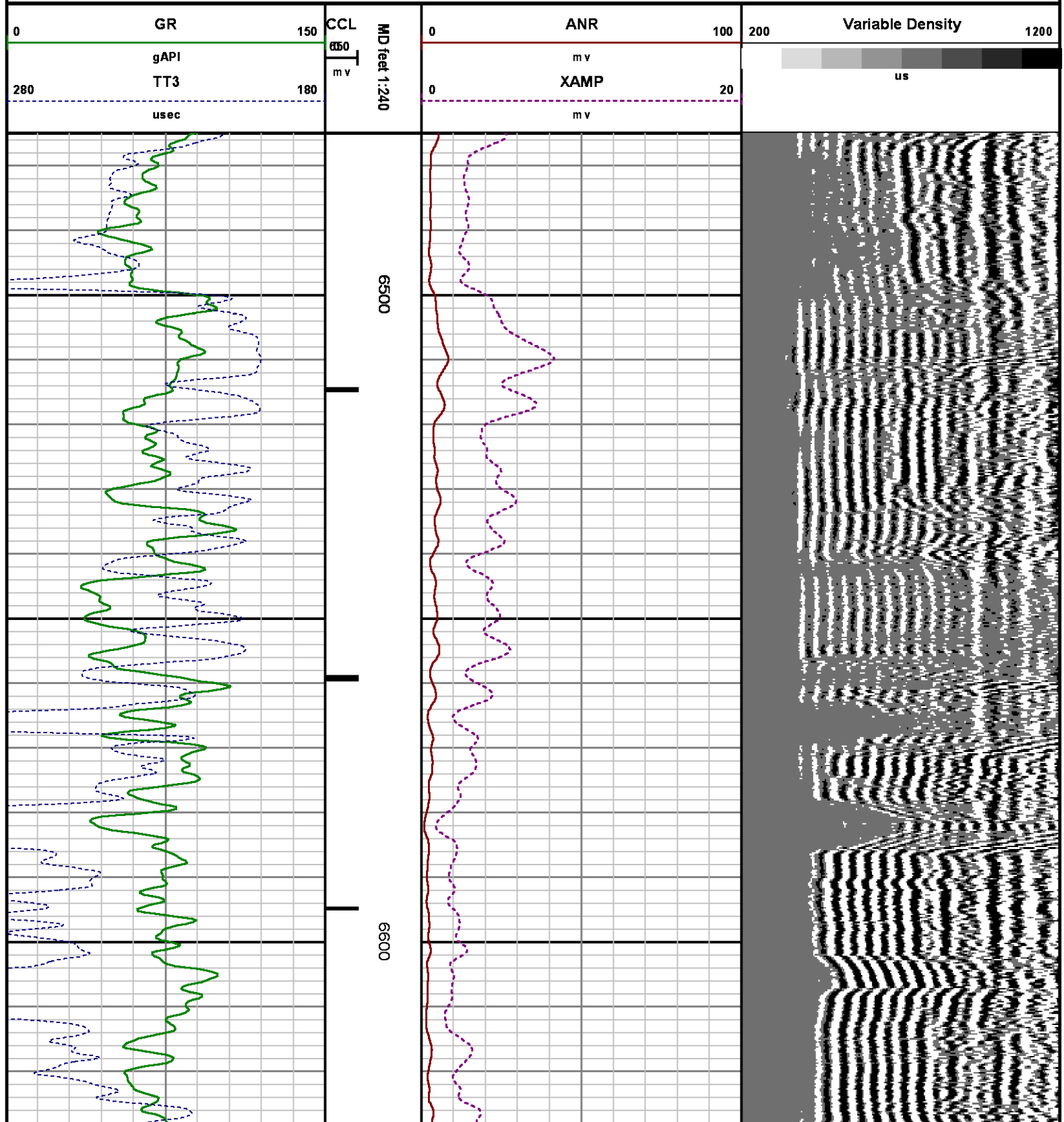
Well : PA 313-6

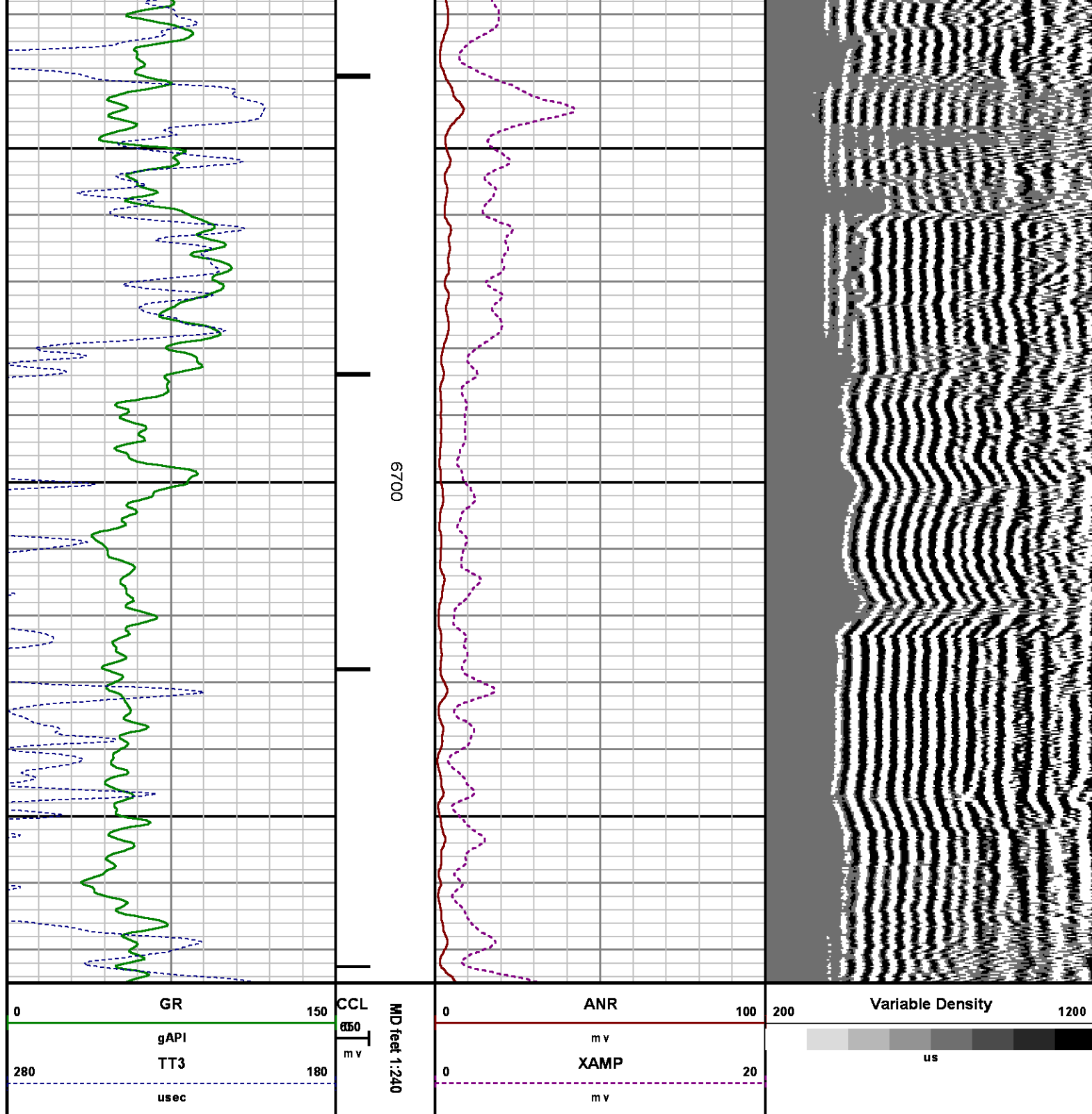
File Name : d:\welldata\wpx\pa 313-6\cbl313\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 6475.00 - 6775.00 feet UP

Created : 6/5/2014 7:39:16 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\49604_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jun 04 08:18:11 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 04

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	0.400	100.00	0.32
3 Ft. Receiver	218	216	30	166	16	1.004	100.00	0.32
5 Ft. Receiver	327	325	30	249	25	0.099	150.00	0.36
Radial #1	219	216	30	166	18	0.896	100.00	0.32
Radial #2	218	216	30	166	18	0.712	100.00	0.31
Radial #3	217	216	30	166	18	1.336	100.00	0.32
Radial #4	217	216	30	166	18	0.945	100.00	0.32
Radial #5	218	216	30	166	18	1.057	100.00	0.32
Radial #6	218	216	30	166	18	0.905	100.00	0.32
Radial #7	219	216	30	166	18	0.794	100.00	0.32
Radial #8	220	216	30	166	18	0.769	100.00	0.32

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49604_fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jun 04 09:18:59 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 04

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	0.081	0.000	1.01	100.000
3 Ft. Receiver	195	25	2.524			
5 Ft. Receiver	305	25	3.611			
Radial #1	195	25	1.615			
Radial #2	195	25	1.862			
Radial #3	195	25	2.308			
Radial #4	195	25	2.268			
Radial #5	195	25	2.489			
Radial #6	195	25	2.439			
Radial #7	195	25	1.910			
Radial #8	195	25	1.834			

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

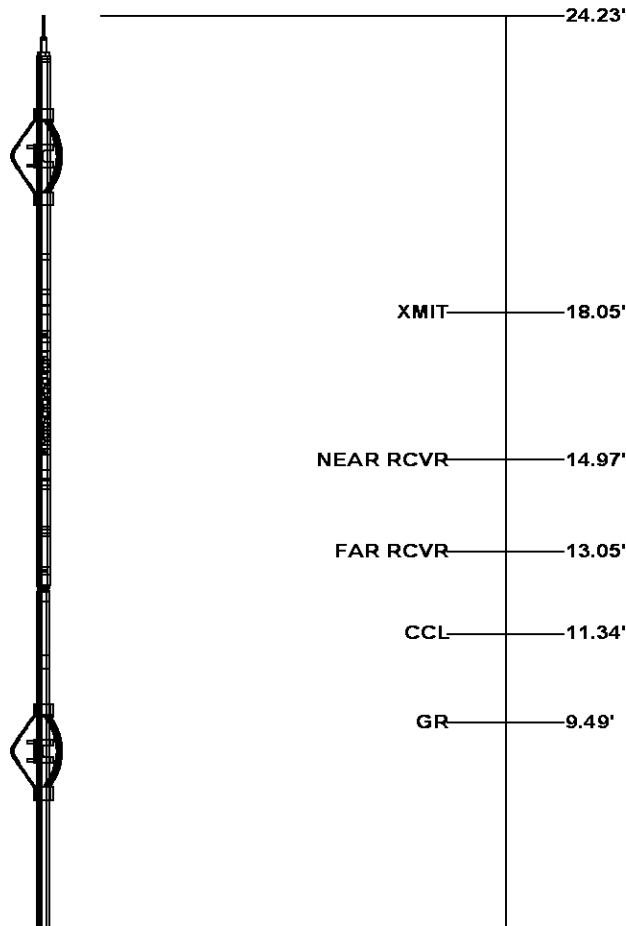
OTA SHORT CABLE HEAD

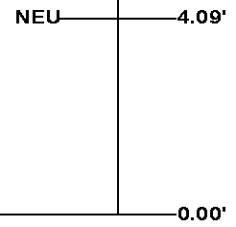
PROBE 2 3/4 DUAL RECEIVER RADII

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

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	PA 313-6		
Field	PARACHUTE		
County	GARFIELD	State	CO

Location		Elevations	
SHL: 766' FSL & 738' FWL		KB	5179 ft
BHL: 2170' FSL & 346' FWL		DF	
		GL	5153 ft
SEC	6	TWP	7S
		RGE	95W

File No:
CH086762
API No:
05045222250000

6 7S 95W
PA 14-6 PAD
NABORS 574