



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH082221

Company Well WPX ENERGY BOSELY SG 411-27

API No: 05045221280000

Field County GRAND VALLEY GARFIELD State CO

Location Other Services

27 75 98W
SG 21-27 PAD
AZTEC 1000

SEC 27 TWP 75 RGE 95

SHL: 800' FNL & 1989' FWL
BHL: 759' FNL & 257' FWL

Permanent Datum Log Measured From Drill Measured From

GL KB 25 ft Above P. D.

KB 5253 ft
DF
GL 5258 ft

Date	03/FEB/14	
Run	ONE	
Service Order	US625277	
Depth Driller	5788 ft	
Depth Logger	5745 ft	
Bottom Logged Interval	5735 ft	
Top Logged Interval	25 ft	
Time Started	19:00	
Time Finished	21:30	
Operator Rig Time	2.5 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	56 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	182 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JCT.
Recorded By	NEWELL	
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	1589 ft
8.75 in	1589 ft	5779 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1598 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	5779 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 = 182 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10124121	CENTRALIZED

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	39.219	5746.750
RAL	Amp Gate Start Near	195.000	usec	39.219	5746.750
RAL	Amp Gate Start Radial	195.000	usec	39.219	5746.750
RAL	Amp Gate Width Far	25.000	usec	39.219	5746.750
RAL	Amp Gate Width Near	25.000	usec	39.219	5746.750
RAL	Amp Gate Width Radial	25.000	usec	39.219	5746.750
RAL	casing od	4.500	inches	39.219	5746.750
RAL	casing wt	11.600	lbm/ft	39.219	5746.750
RAL	FB Start Far	291.900	usec	39.219	5746.750
RAL	FB Start Near	175.391	usec	39.219	5746.750
RAL	FB Start Radial	175.391	usec	39.219	5746.750
RAL	FB Thresh Far	10.000	mv	39.219	5746.750
RAL	FB Thresh Near	4.000	mv	39.219	5746.750
RAL	FB Thresh Radial	4.000	mv	39.219	5746.750
RAL	Fluid Travel Time	200.000	usec/ft	39.219	5746.750

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

1426XA -15.750
2459XA -11.340
2459XA -9.490
2459XA -4.090

FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

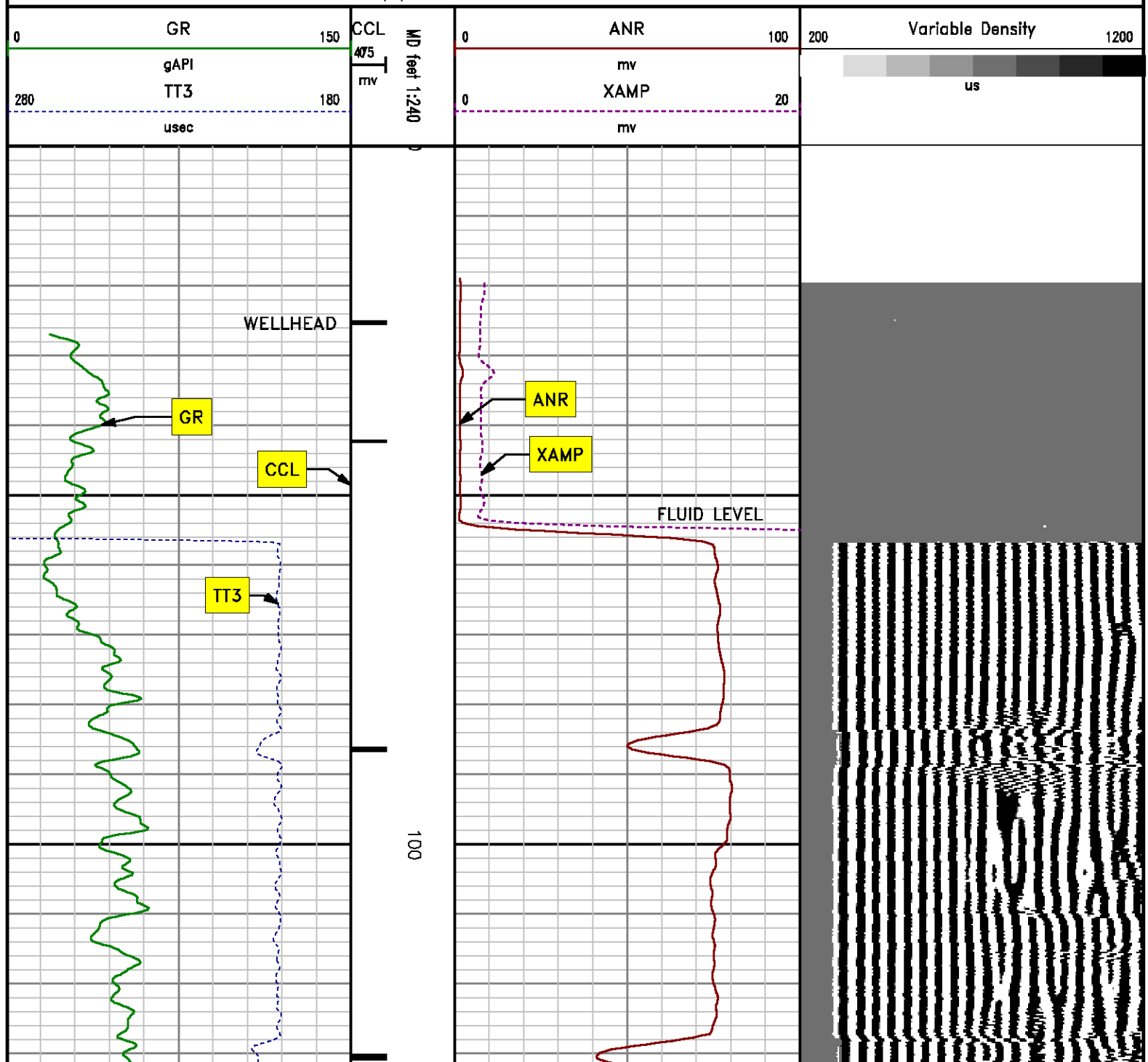
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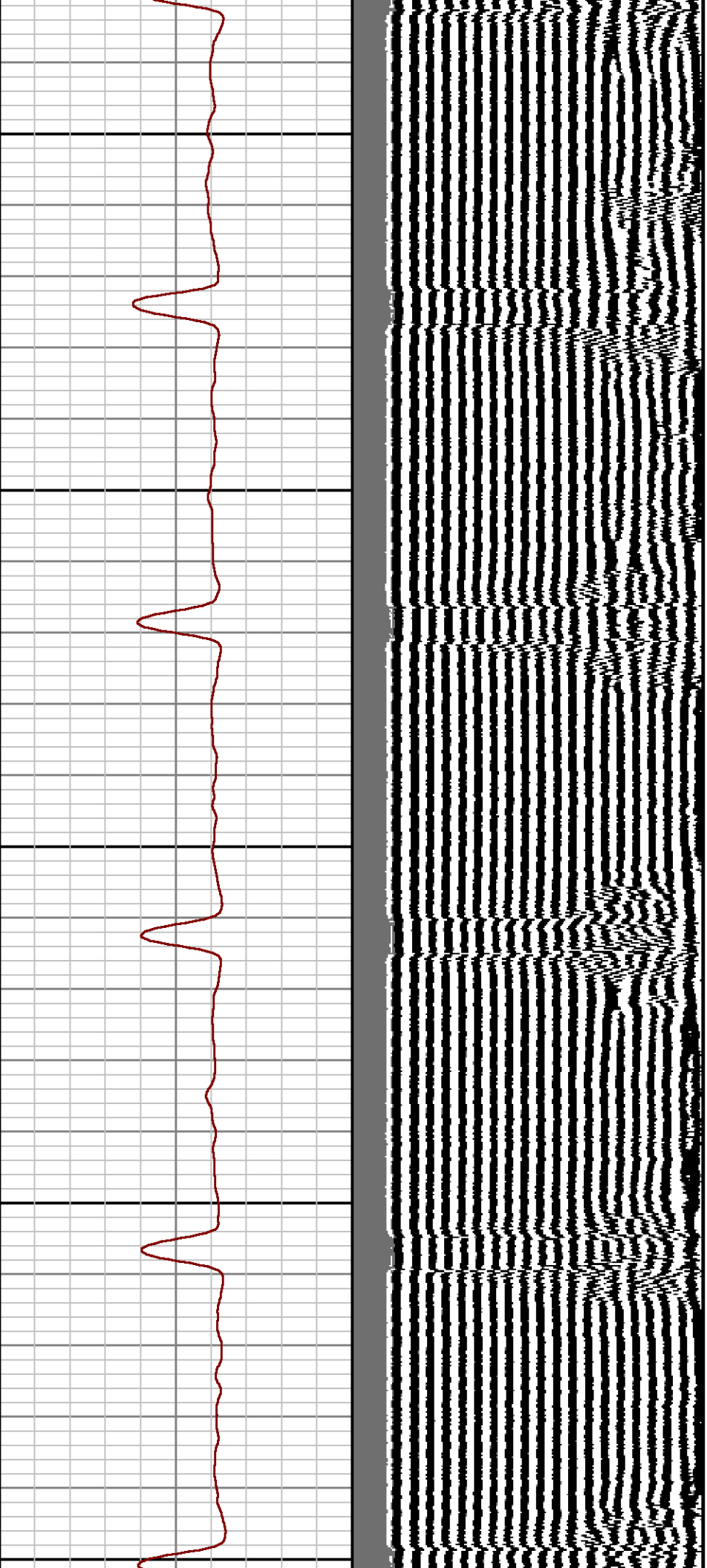
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Mode : PlotMgr 5.4.504

Interval : 0.00 - 5750.00 feet UP

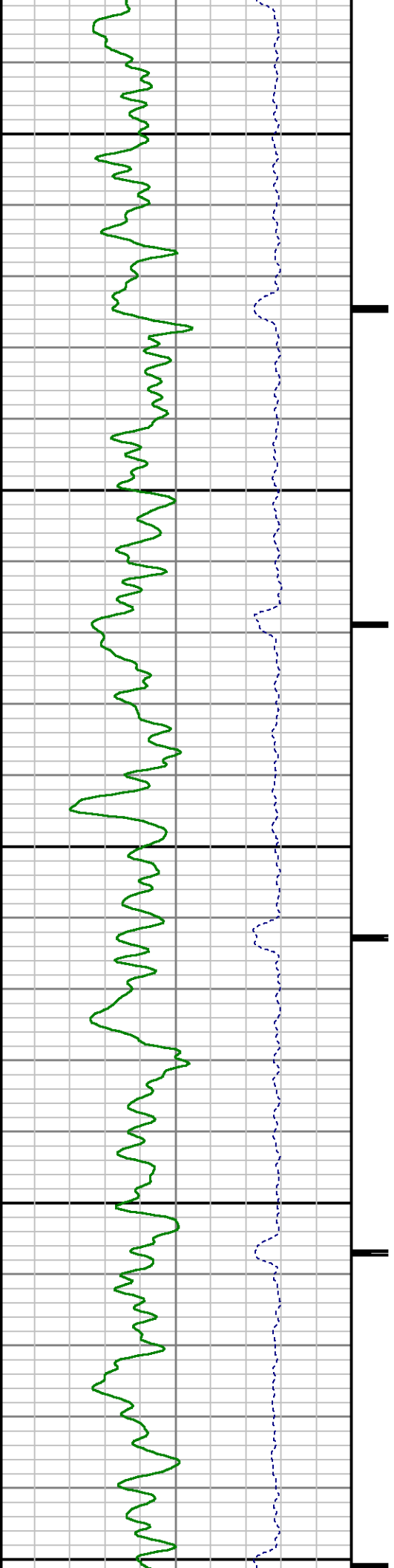
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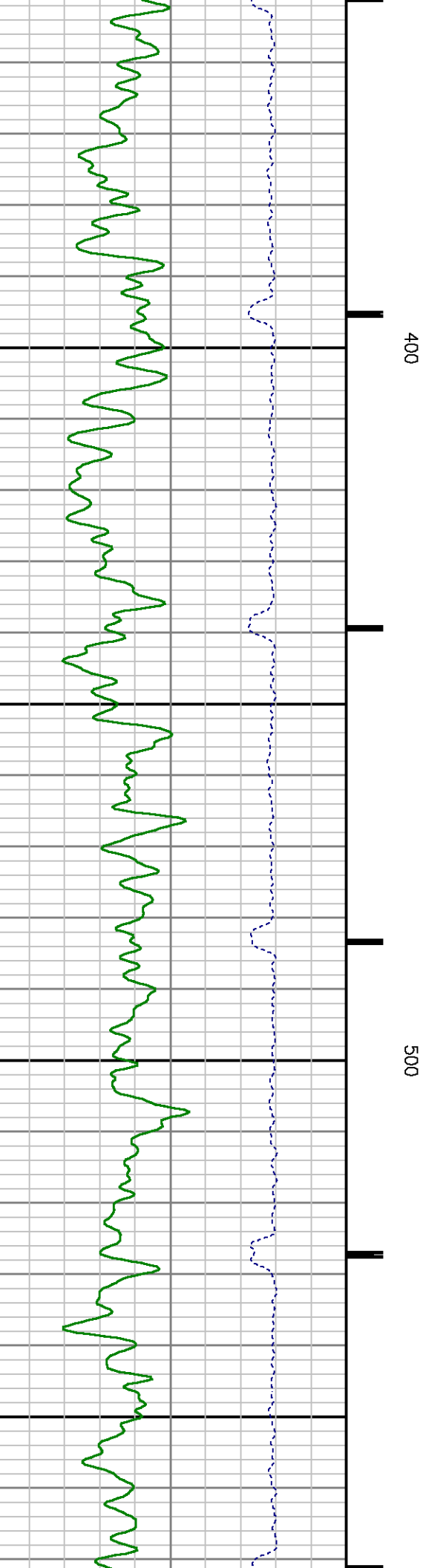
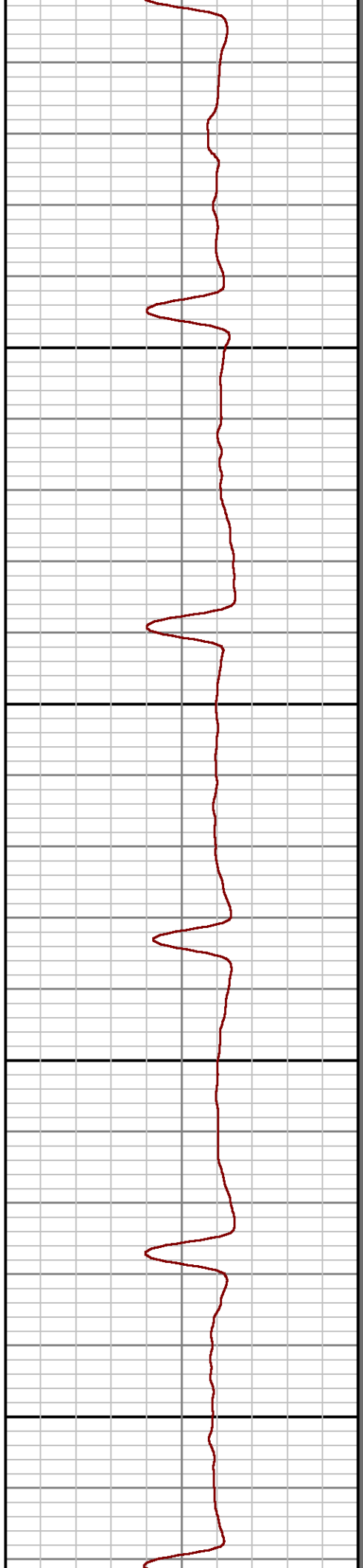
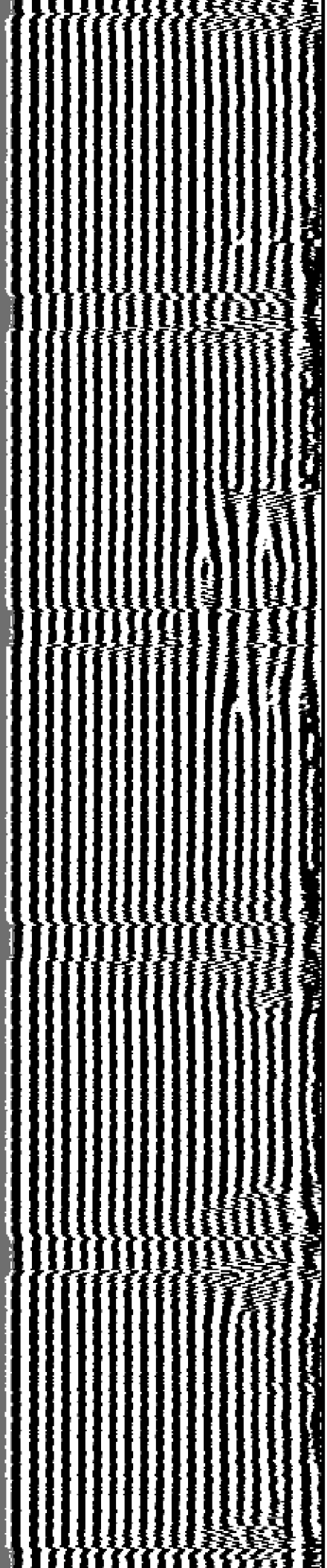


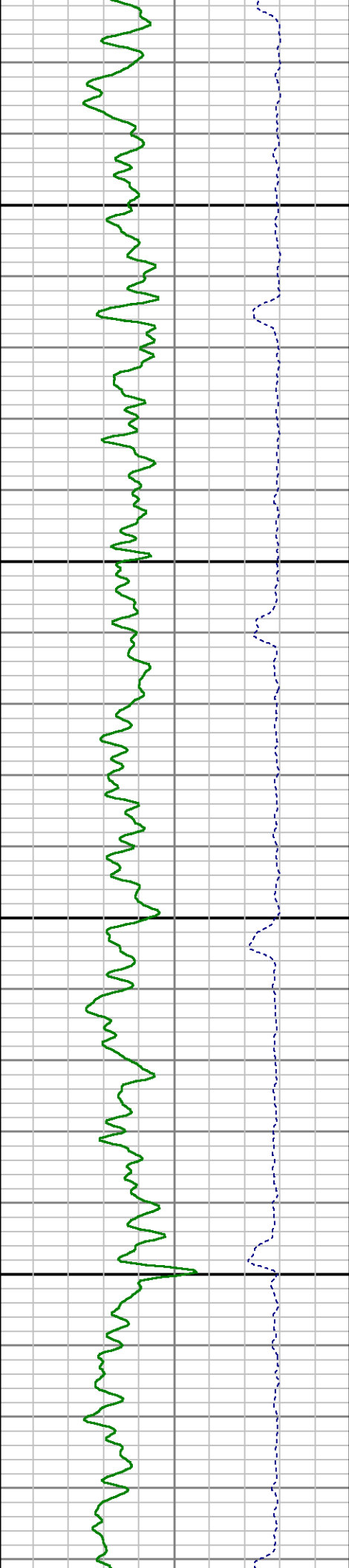
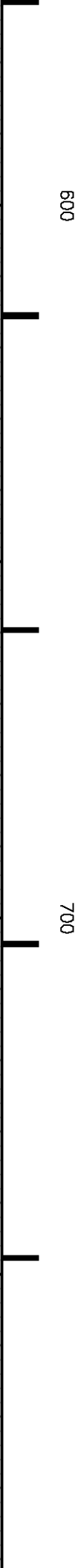
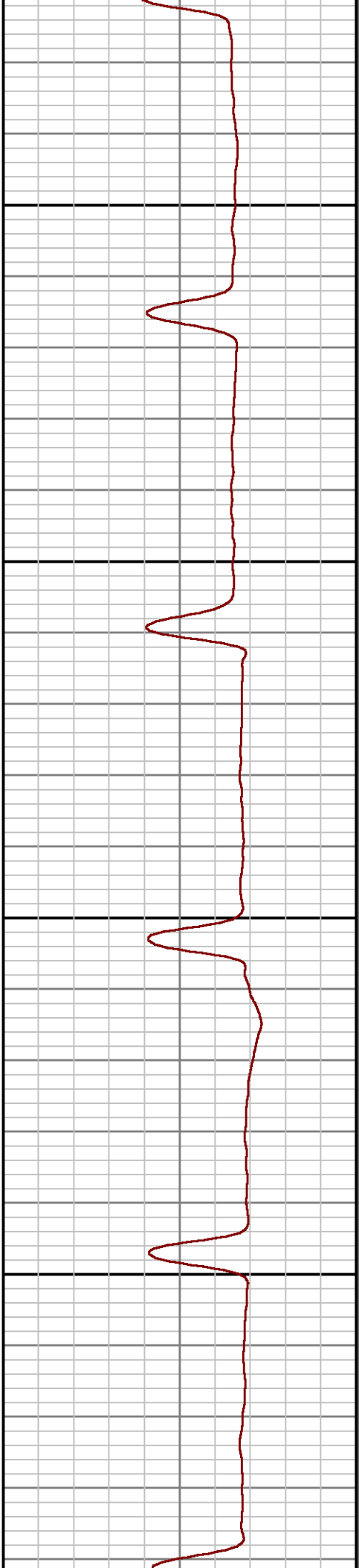
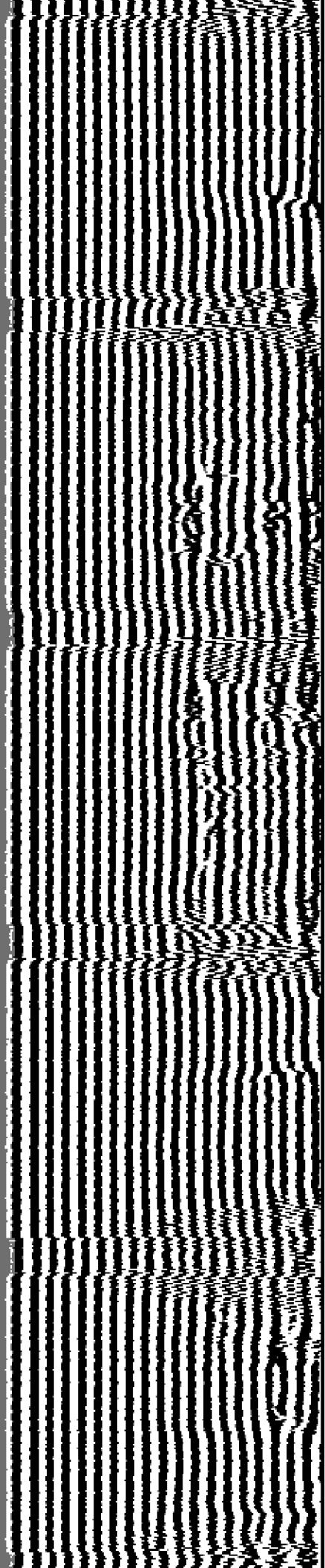


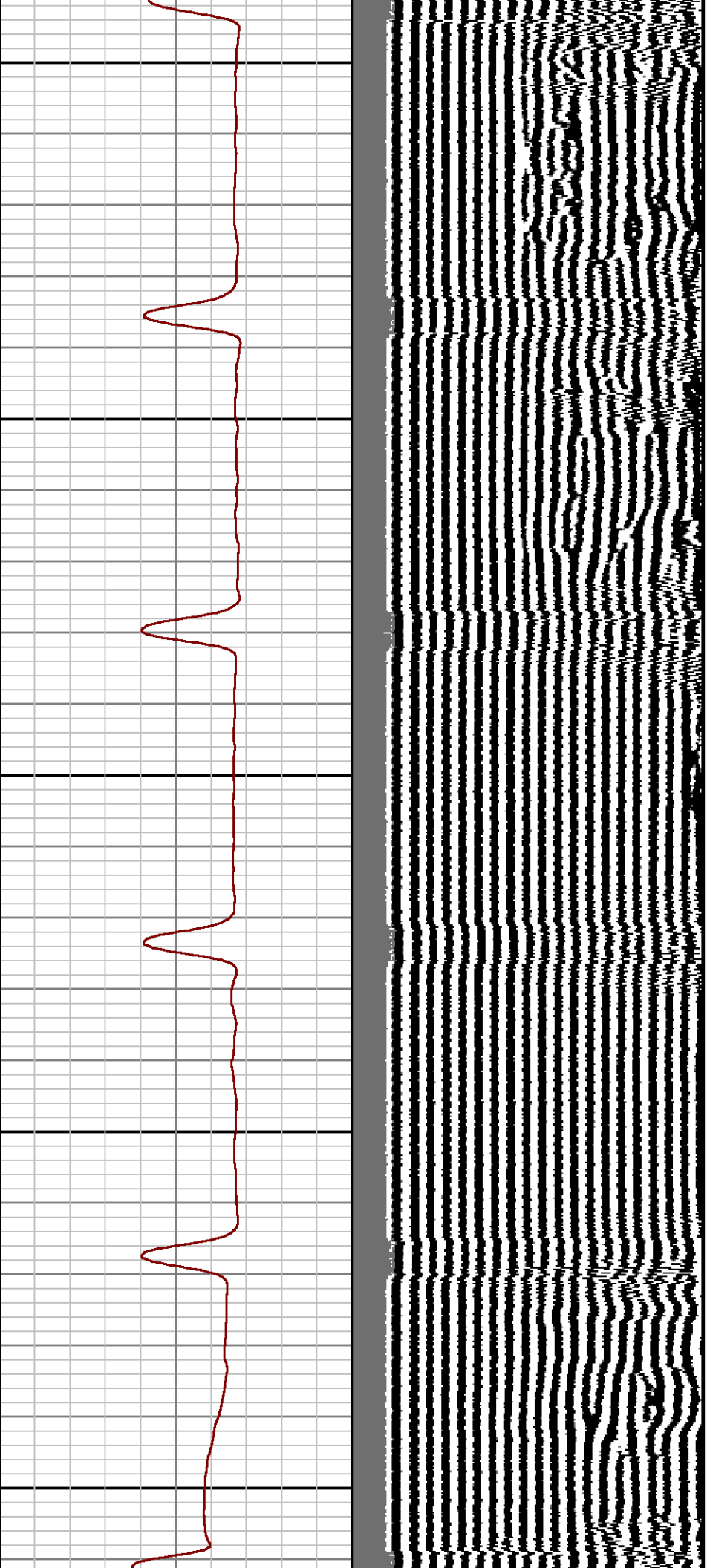
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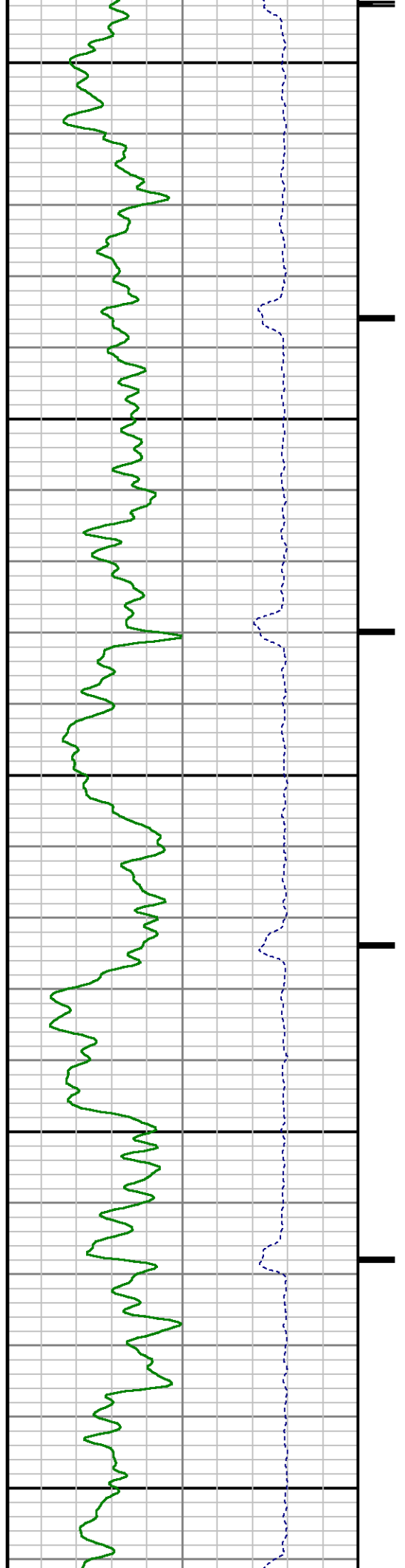


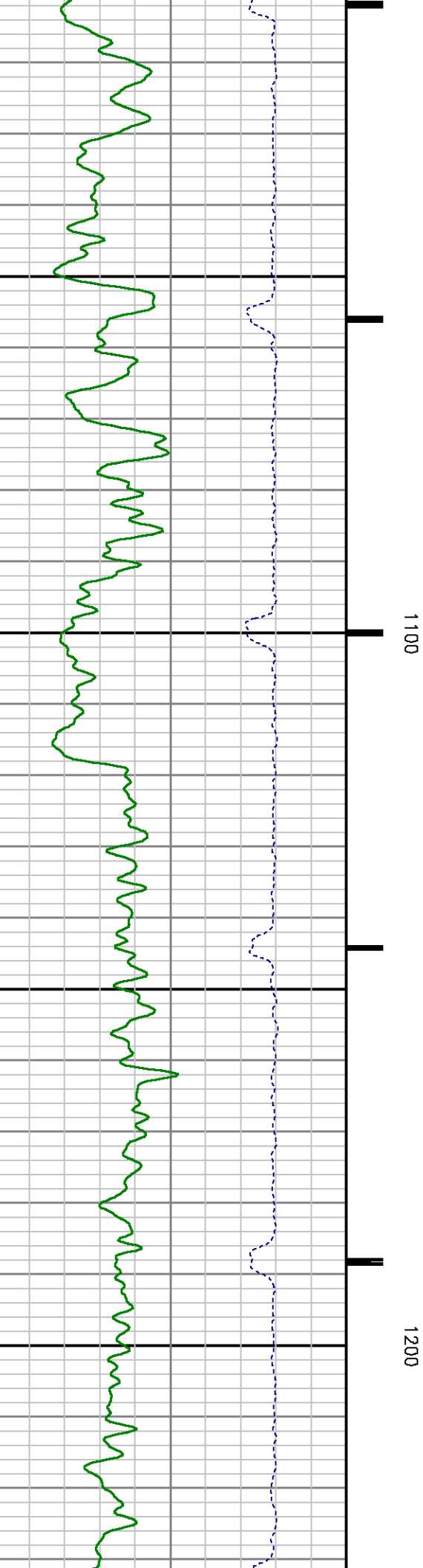
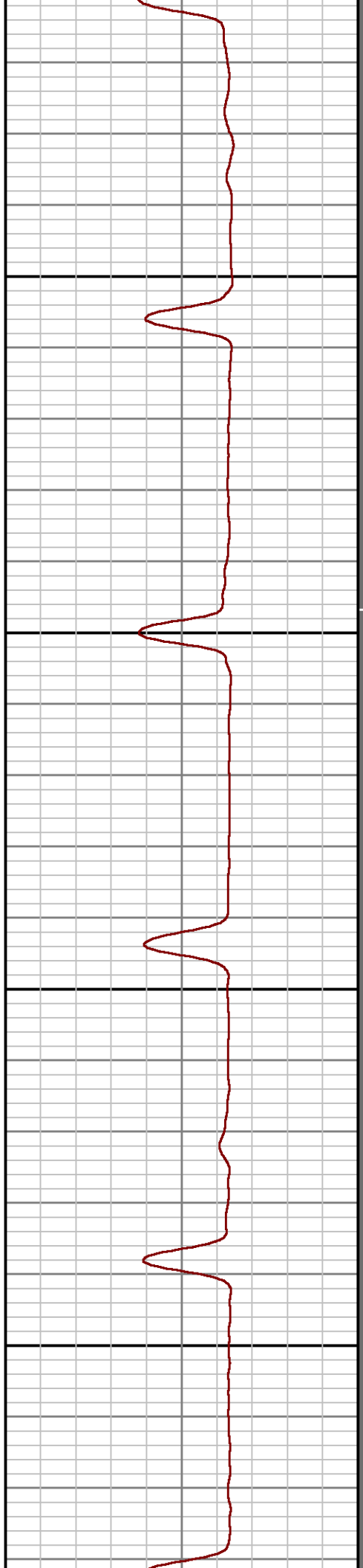
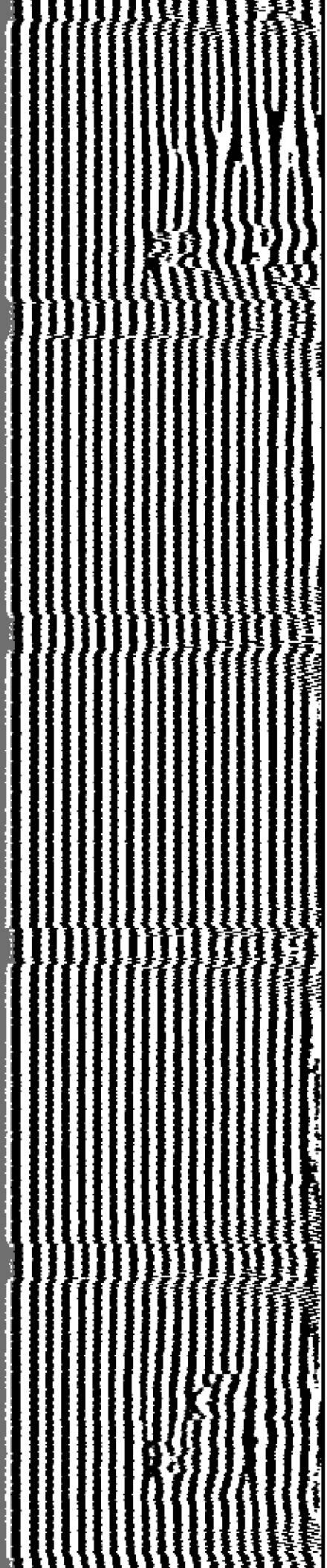


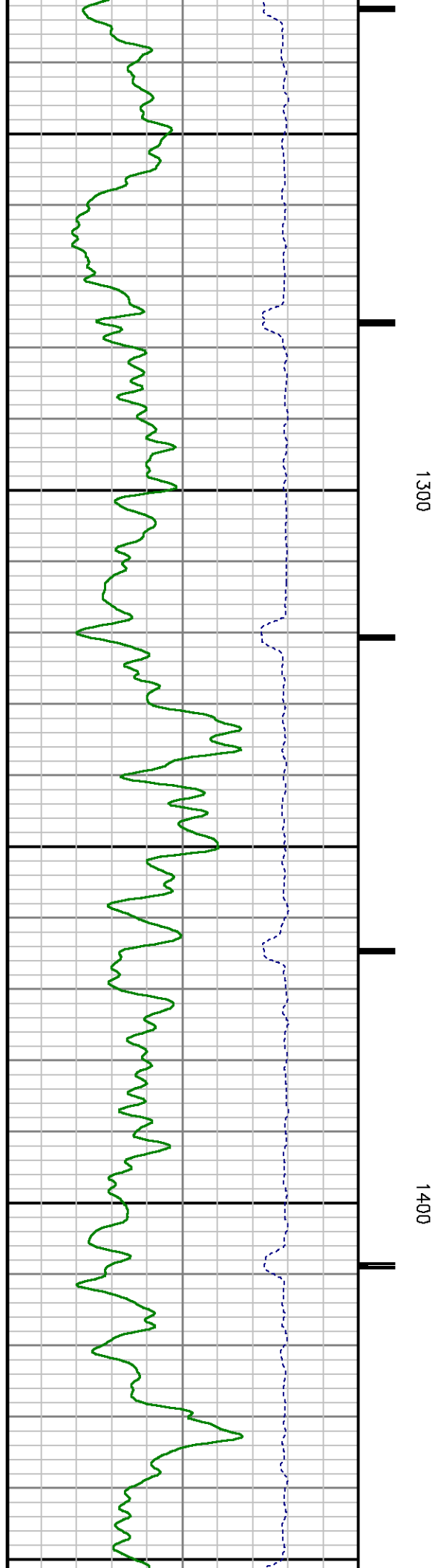
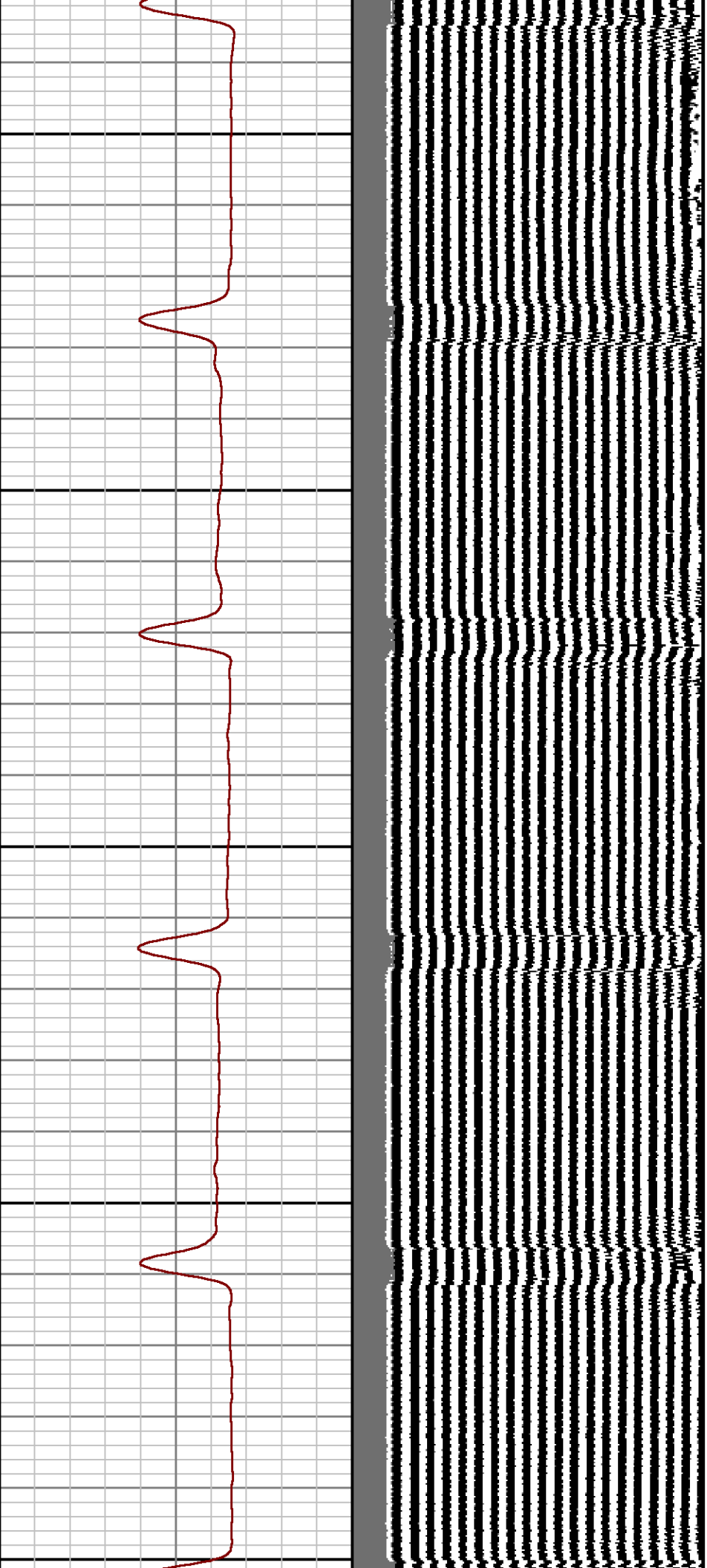
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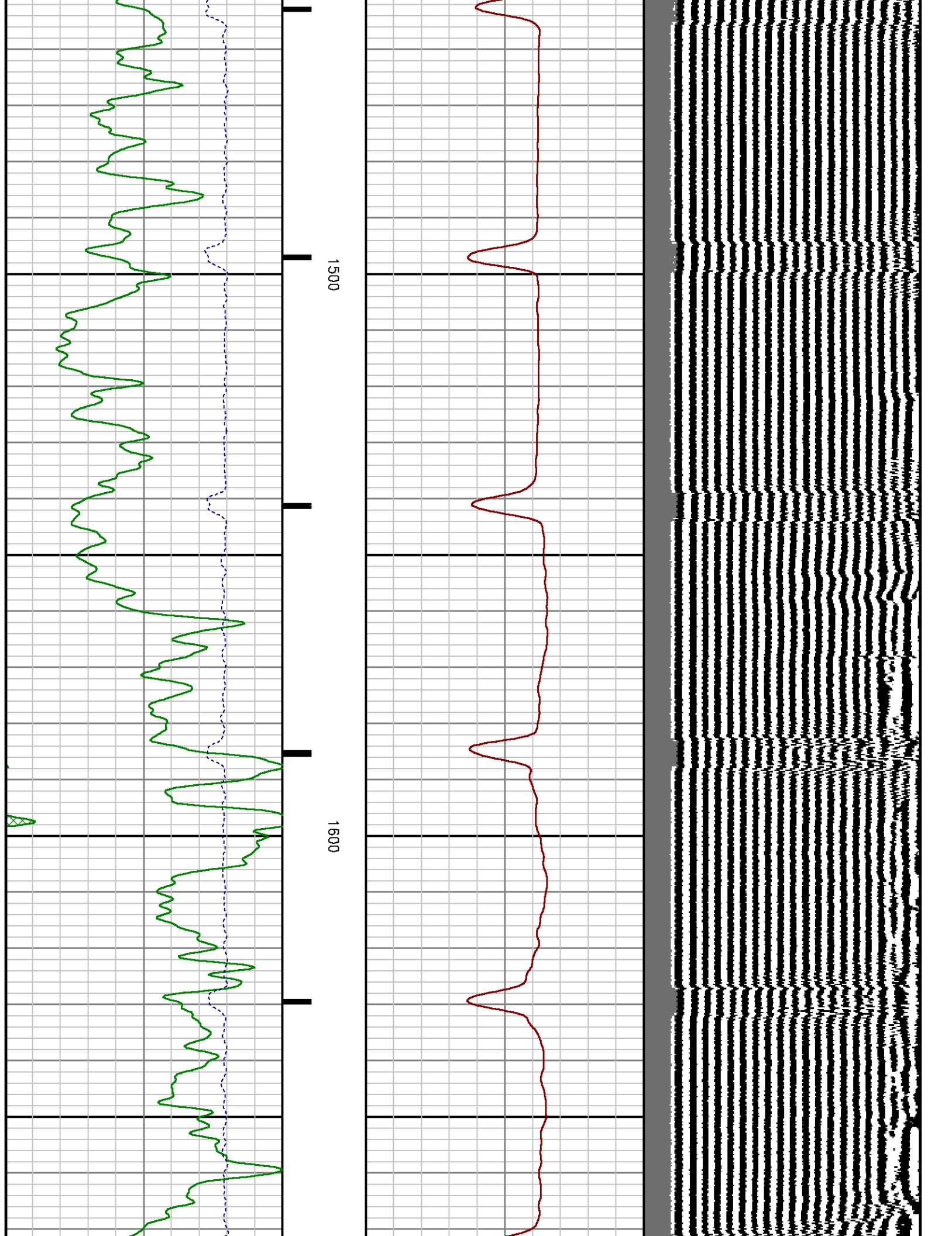
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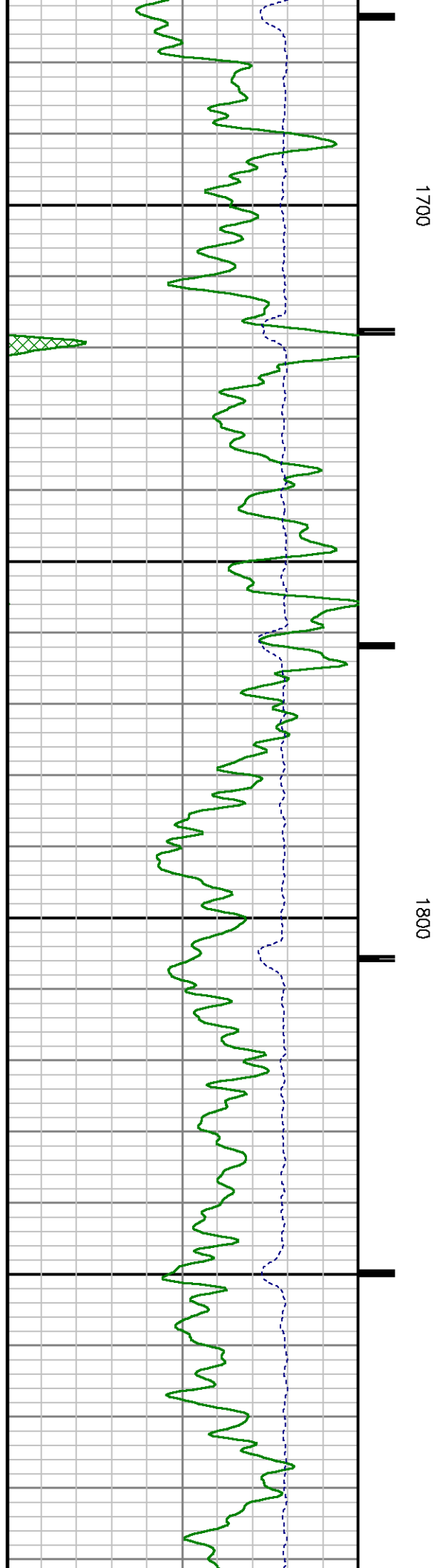
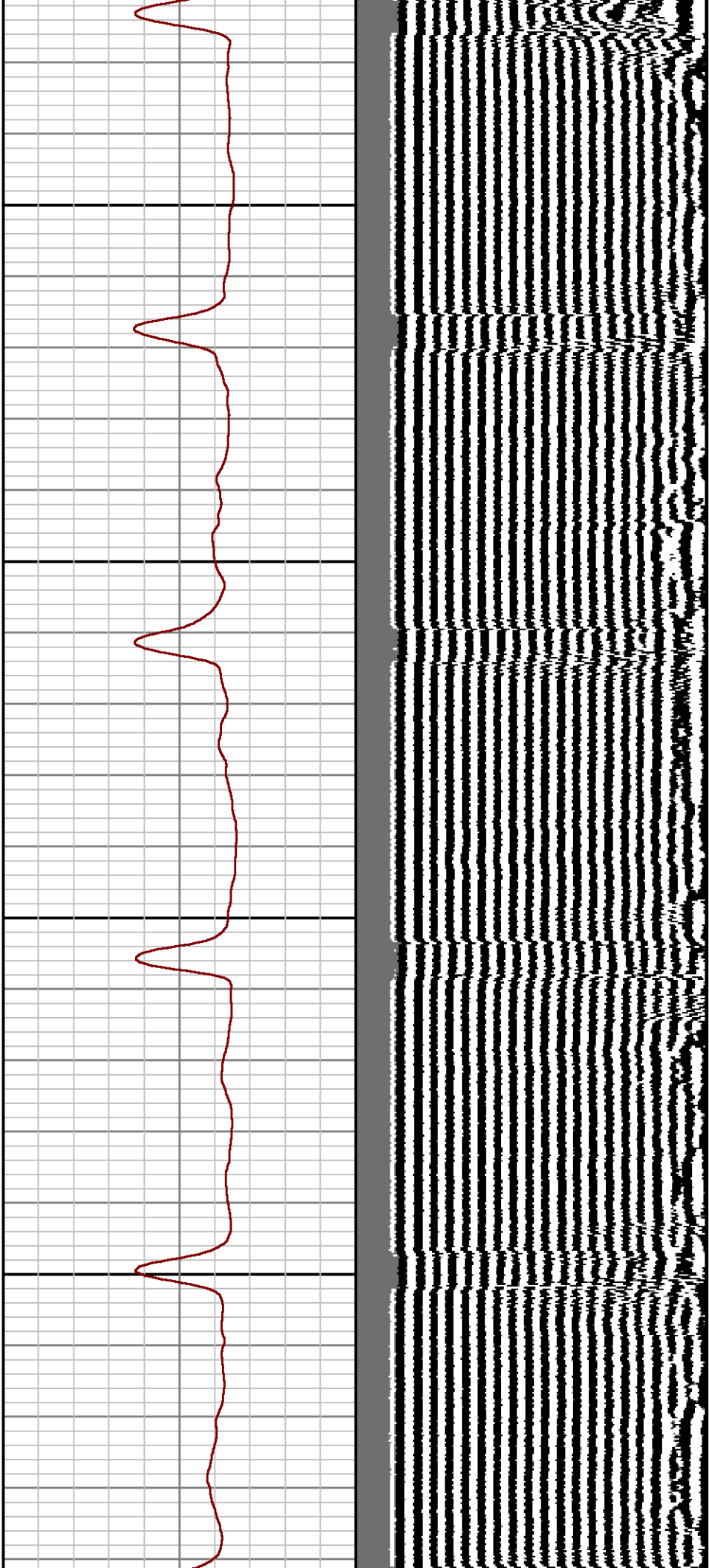
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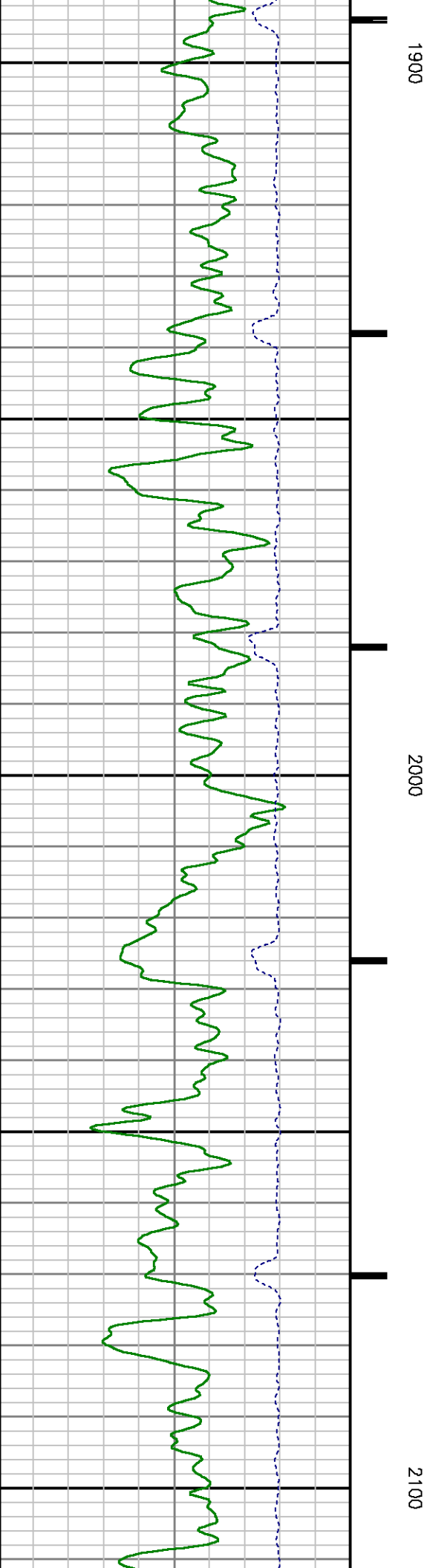
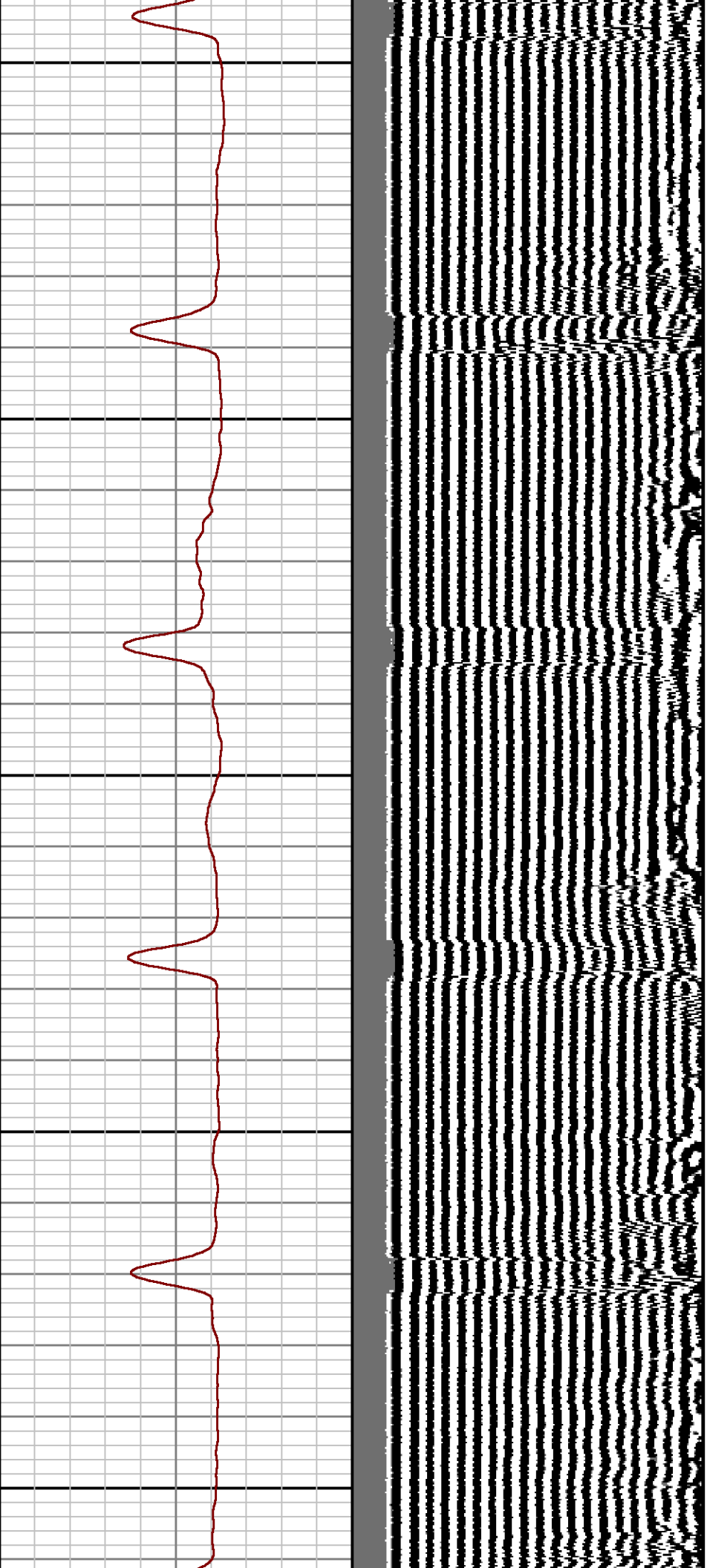


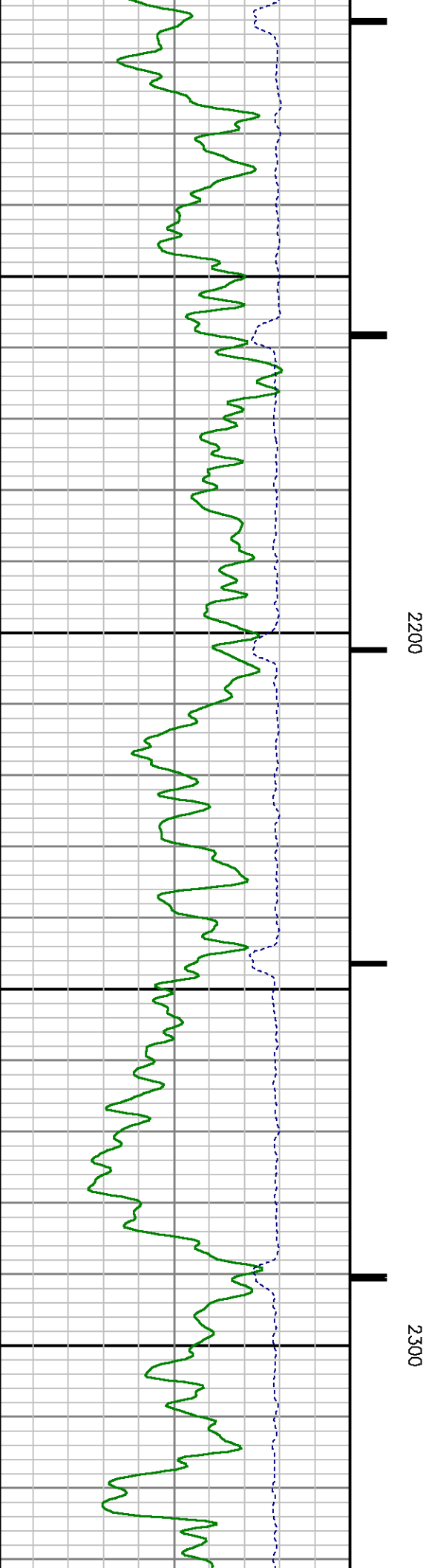
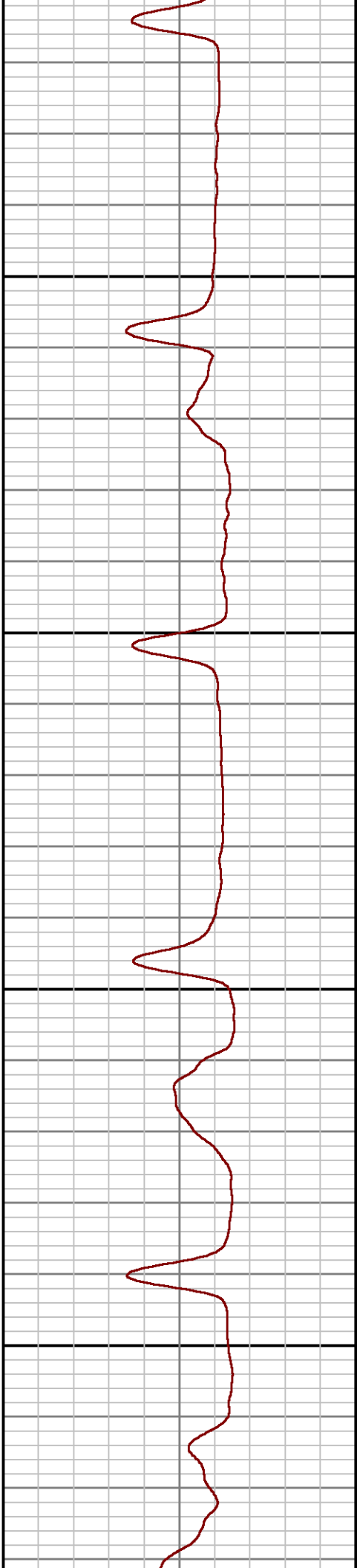
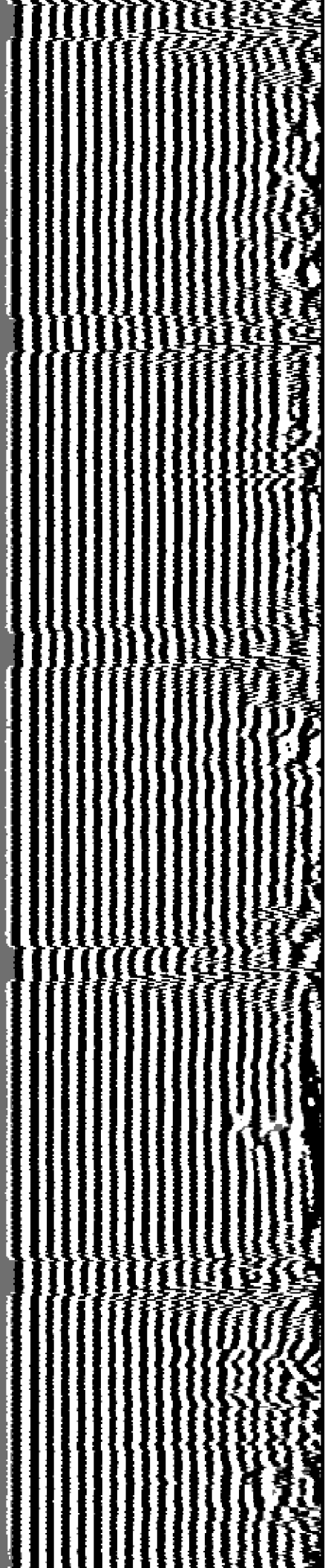


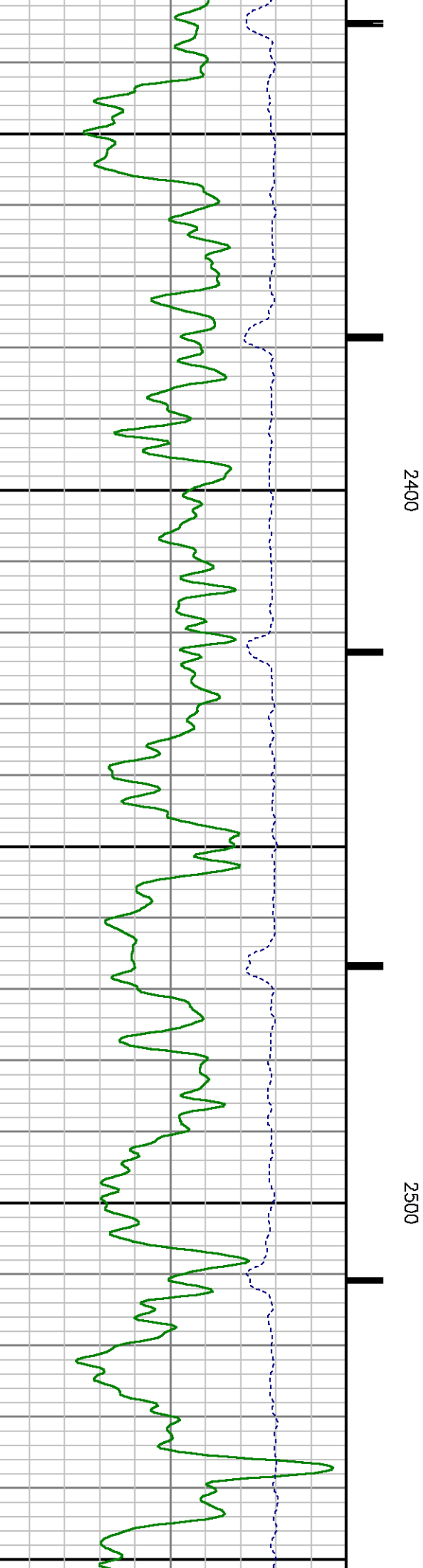
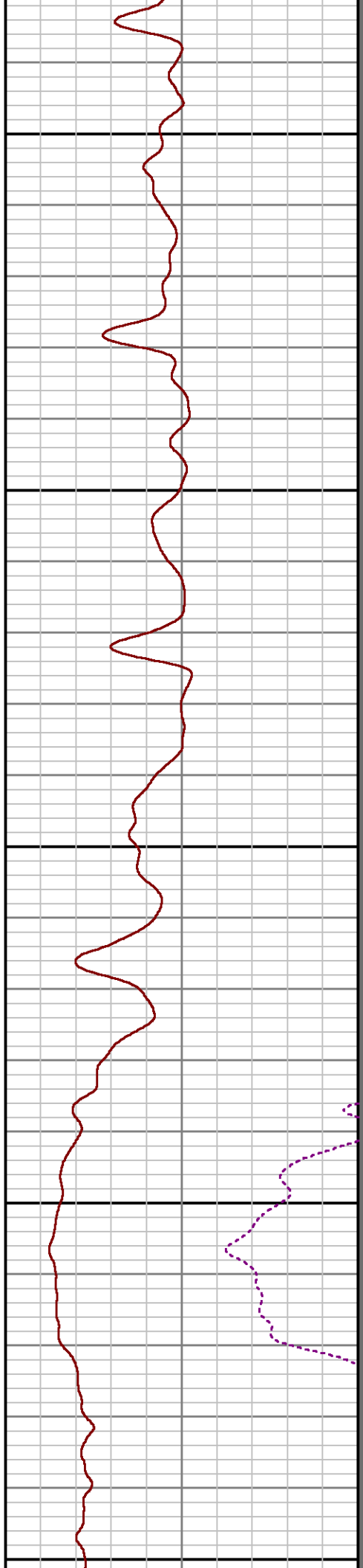
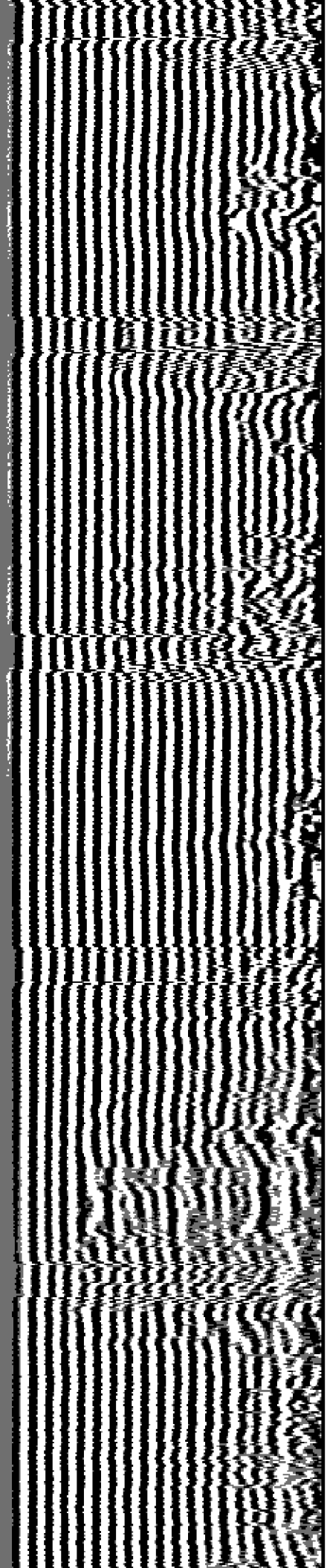


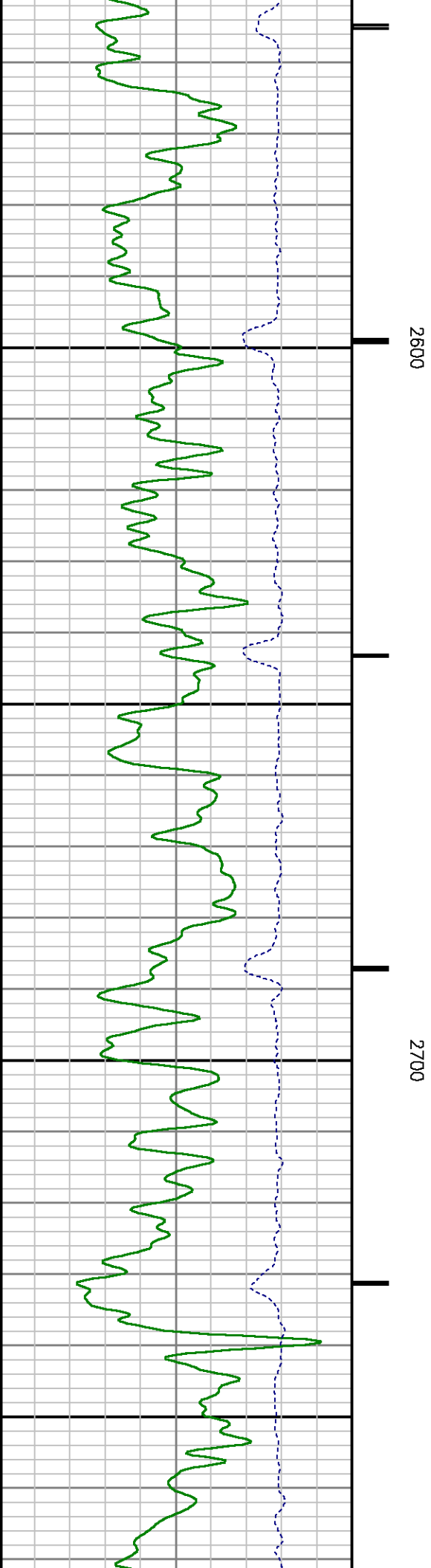
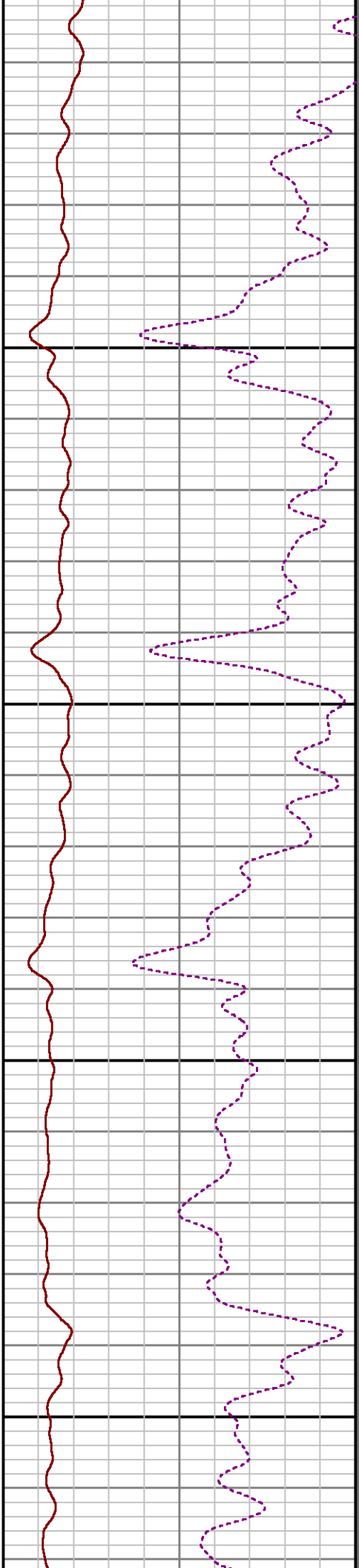
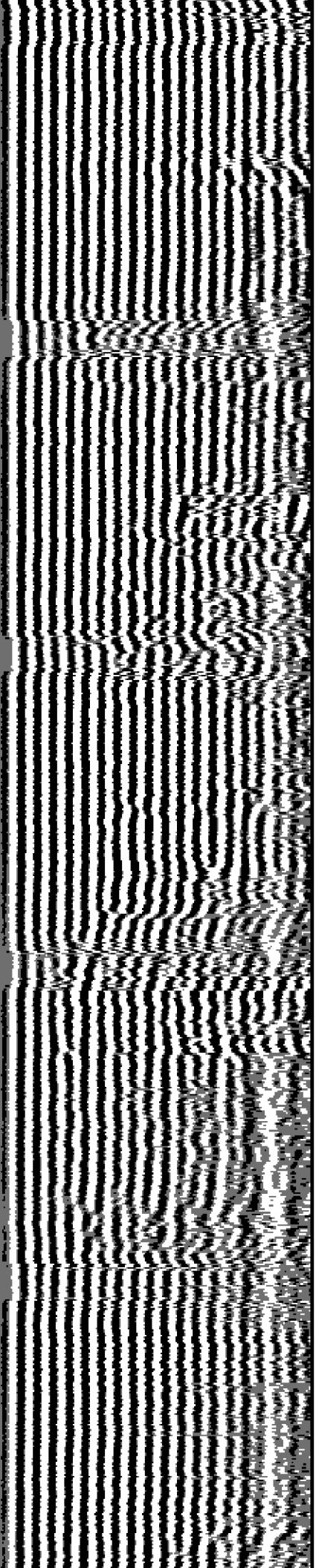


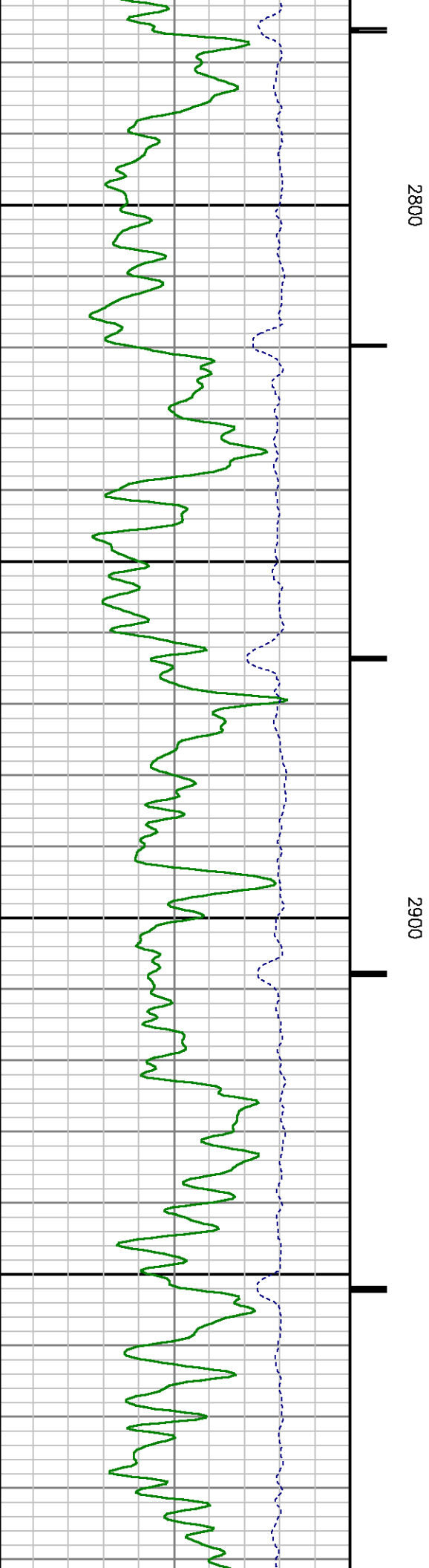
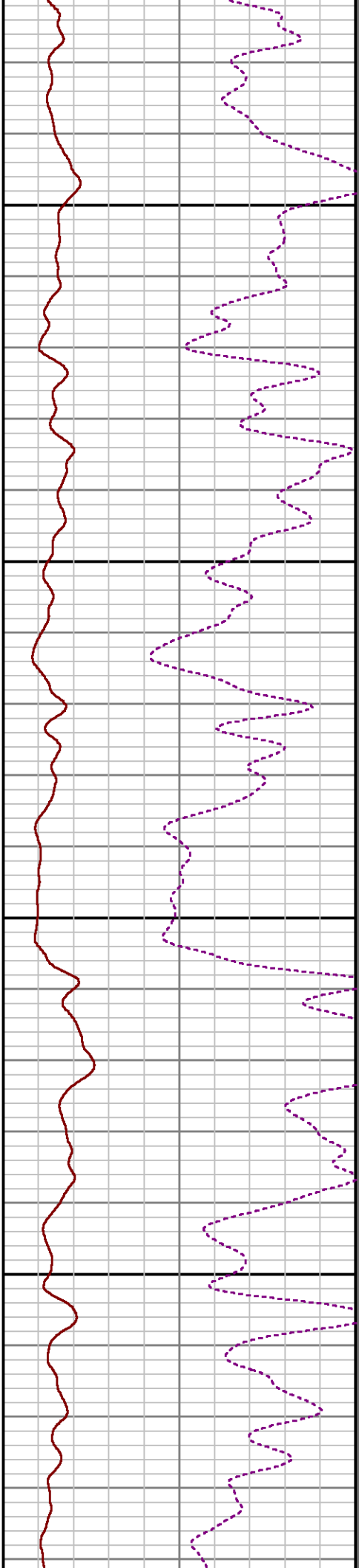
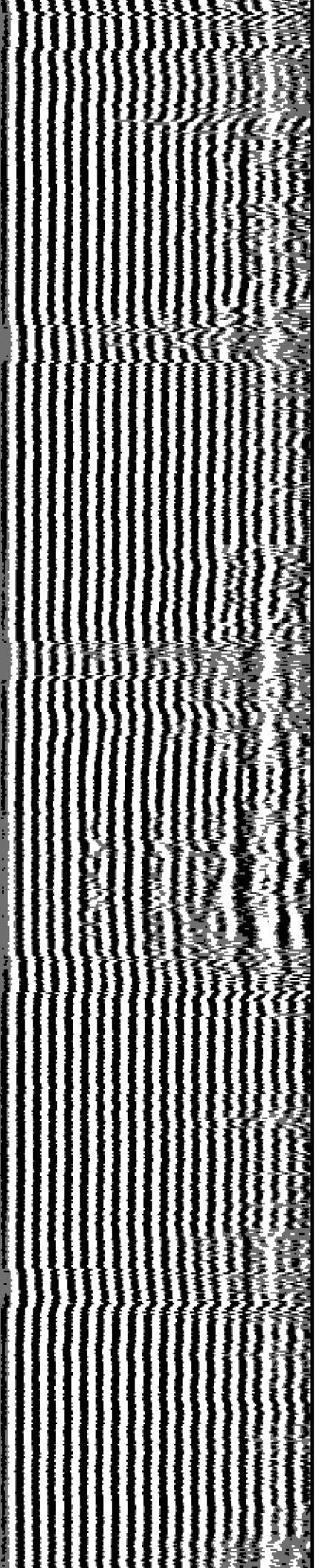


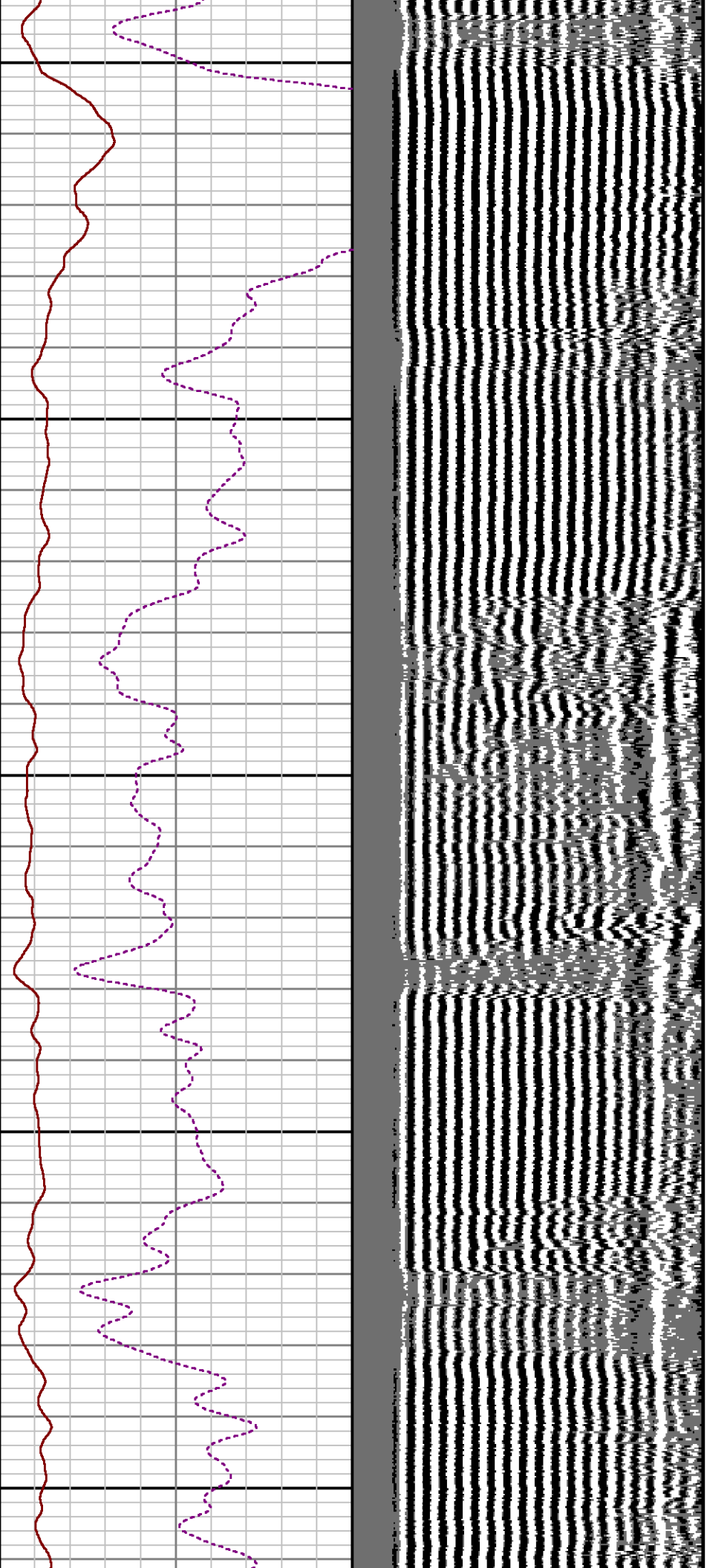








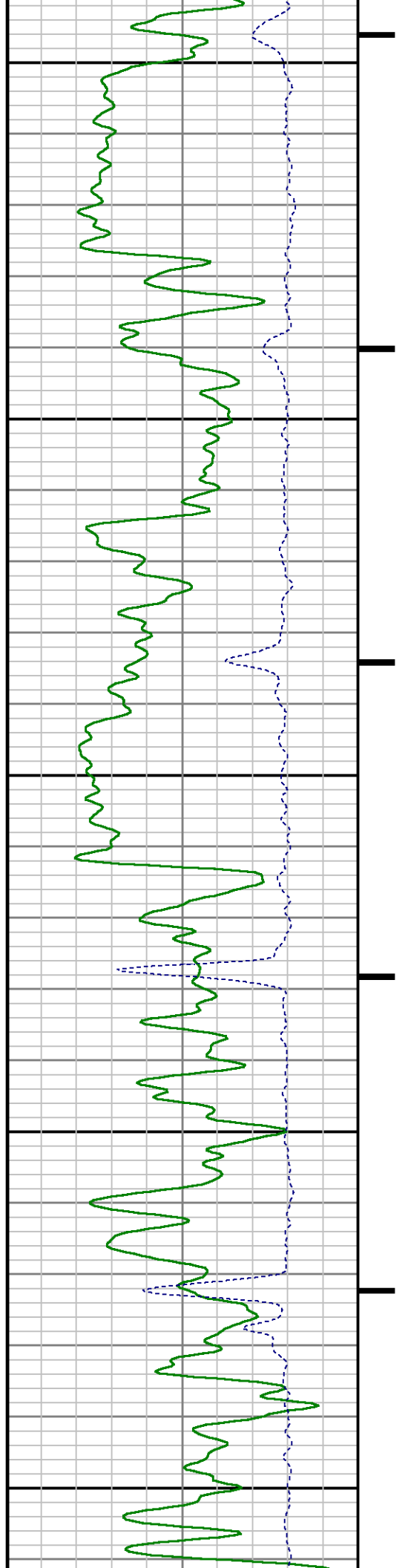


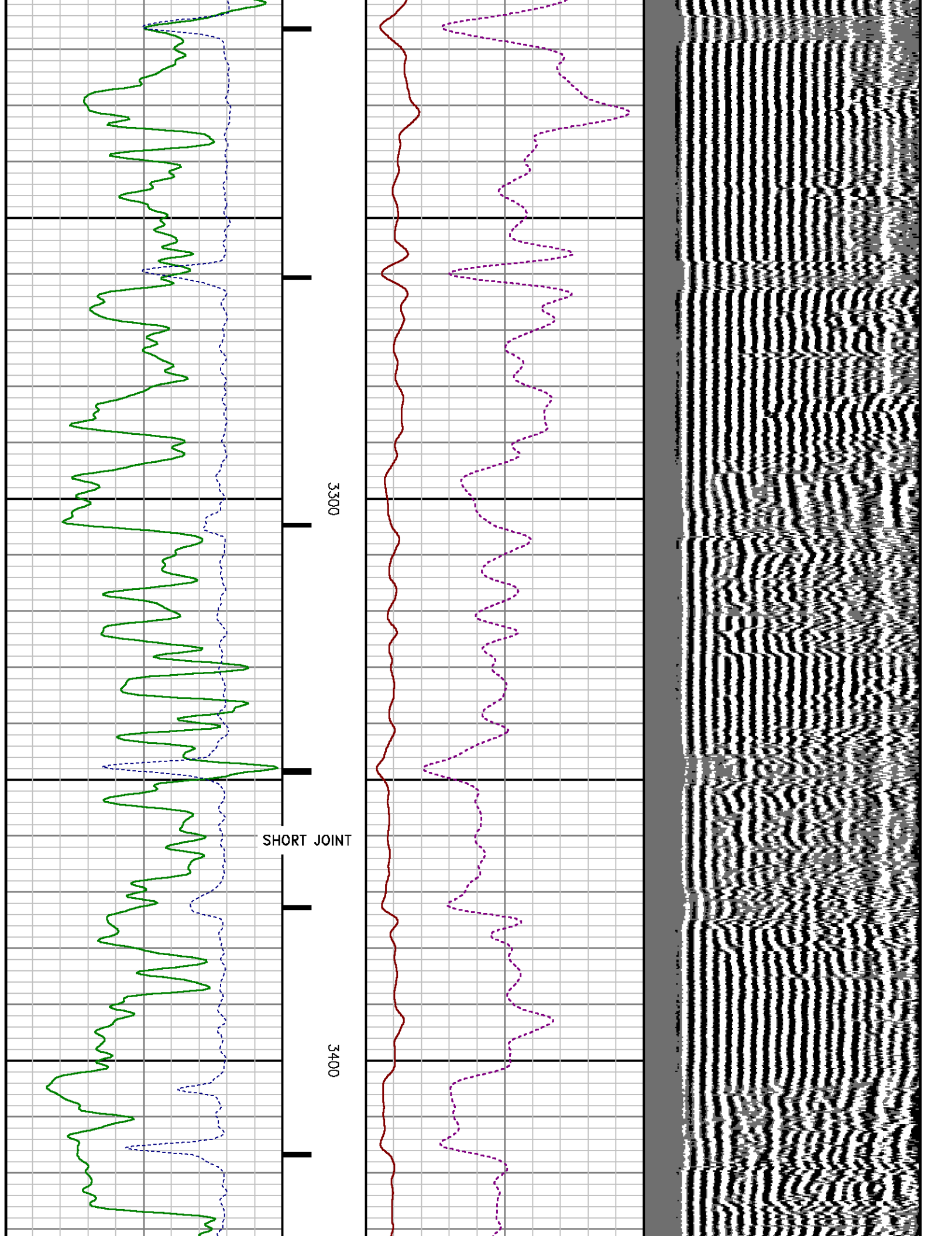


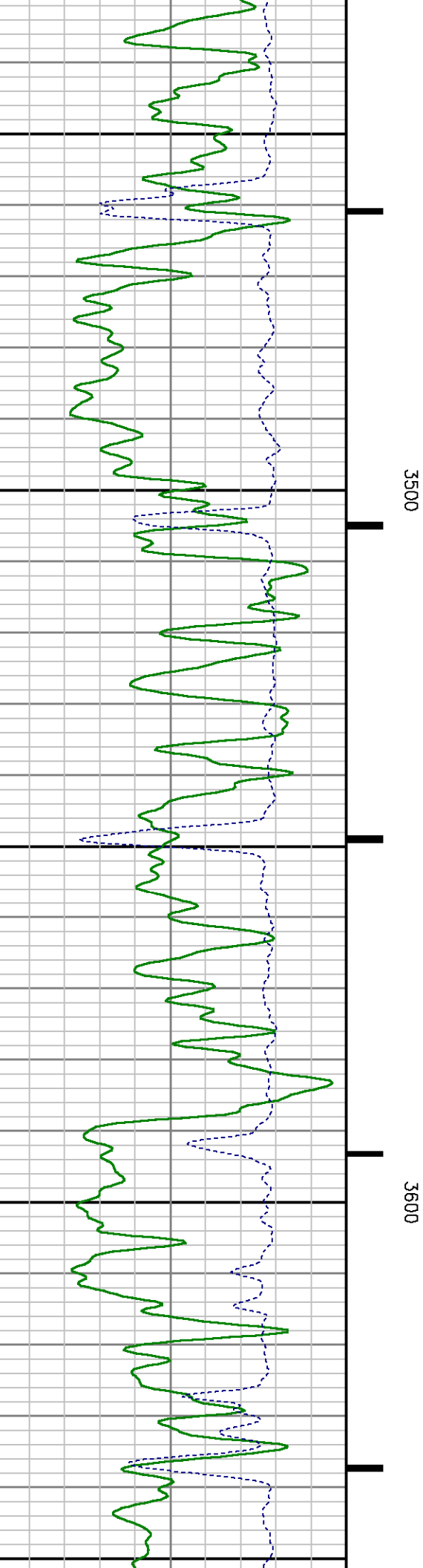
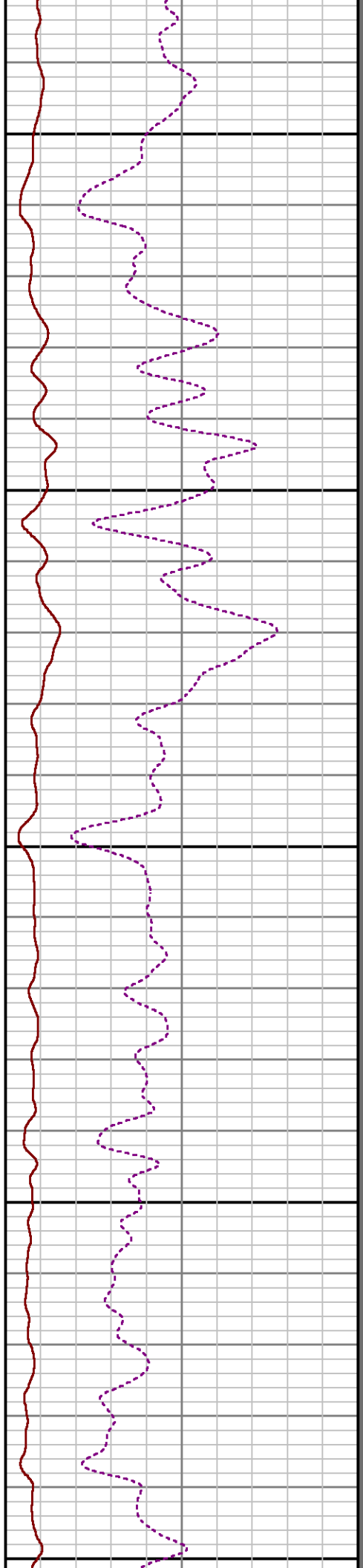
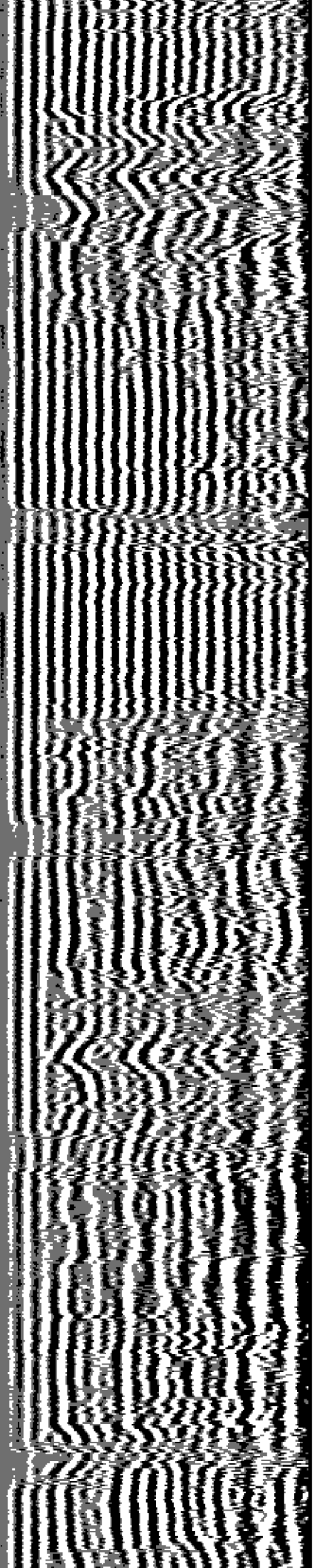
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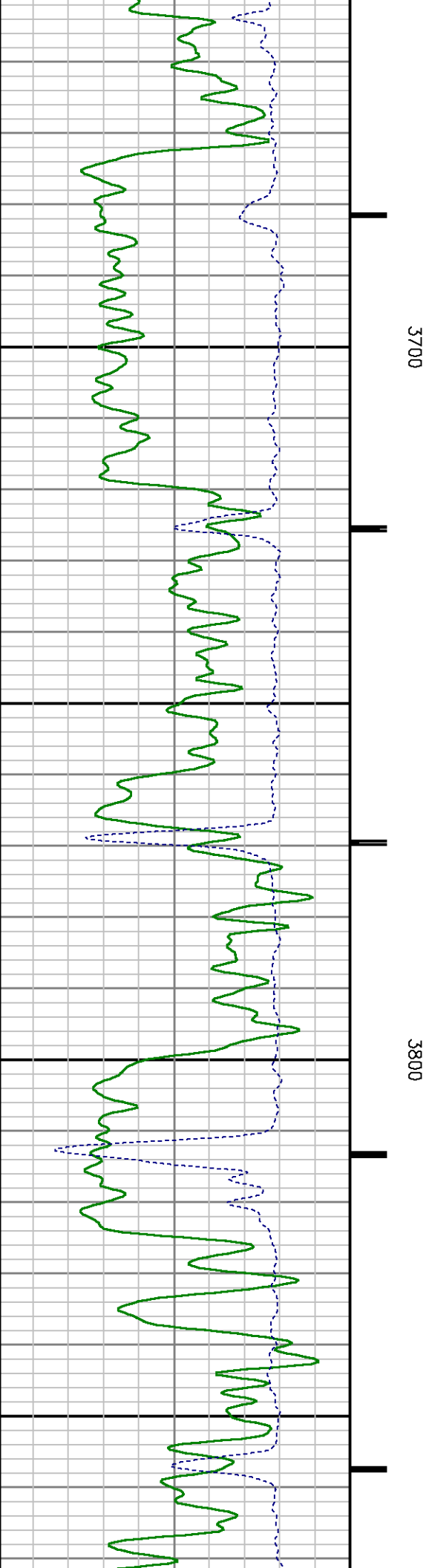
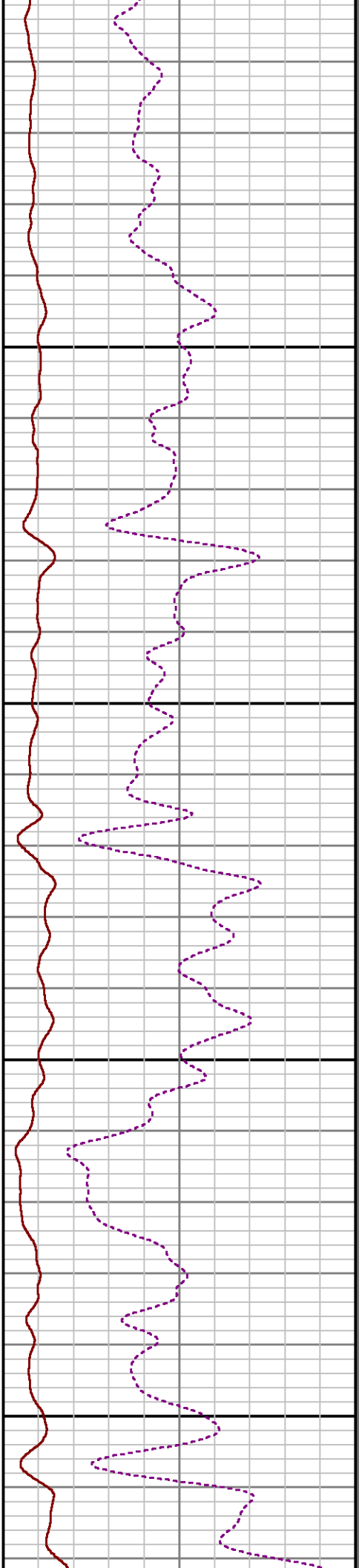
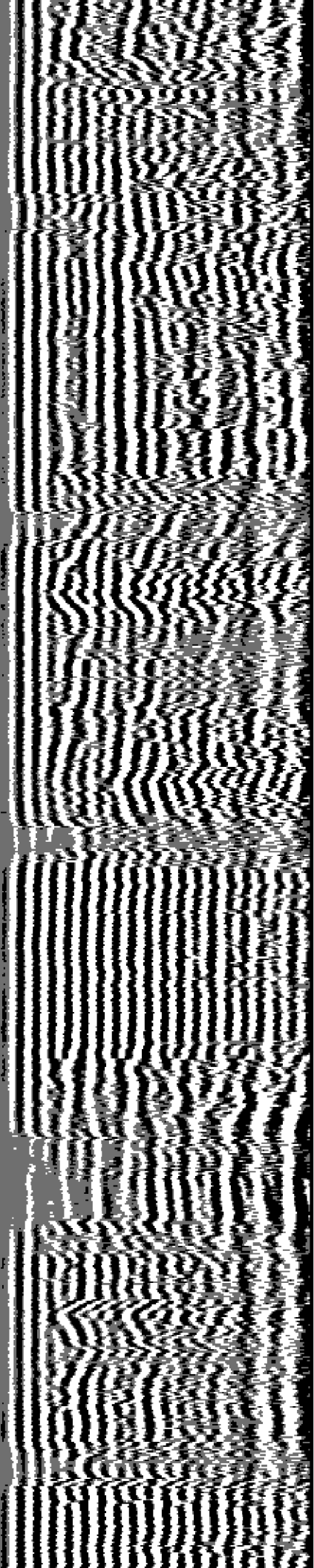
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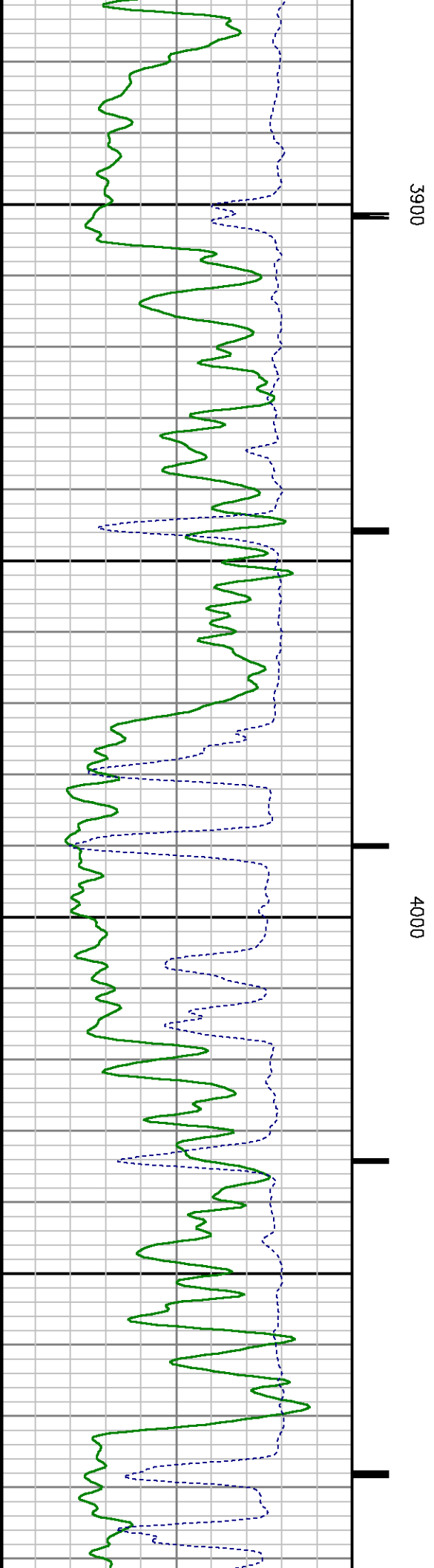
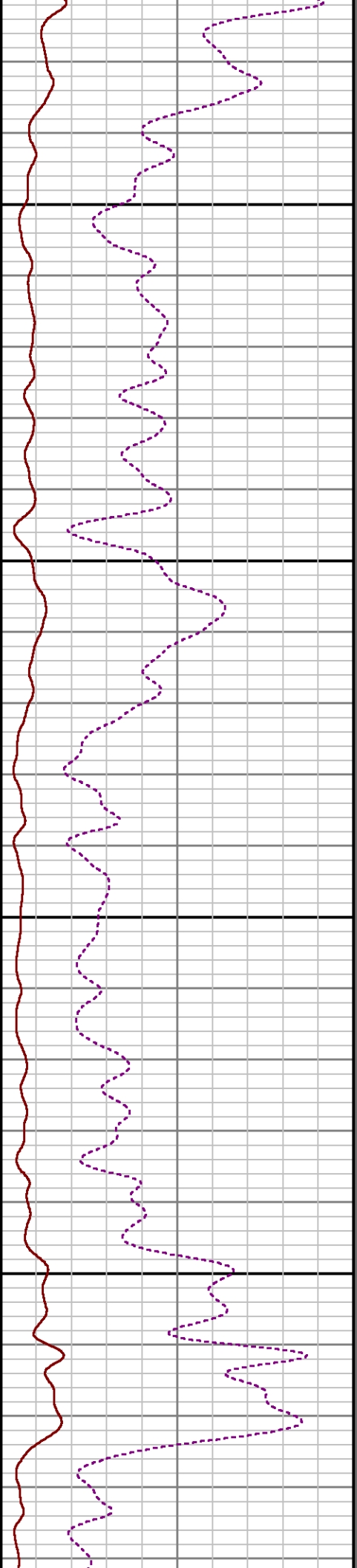
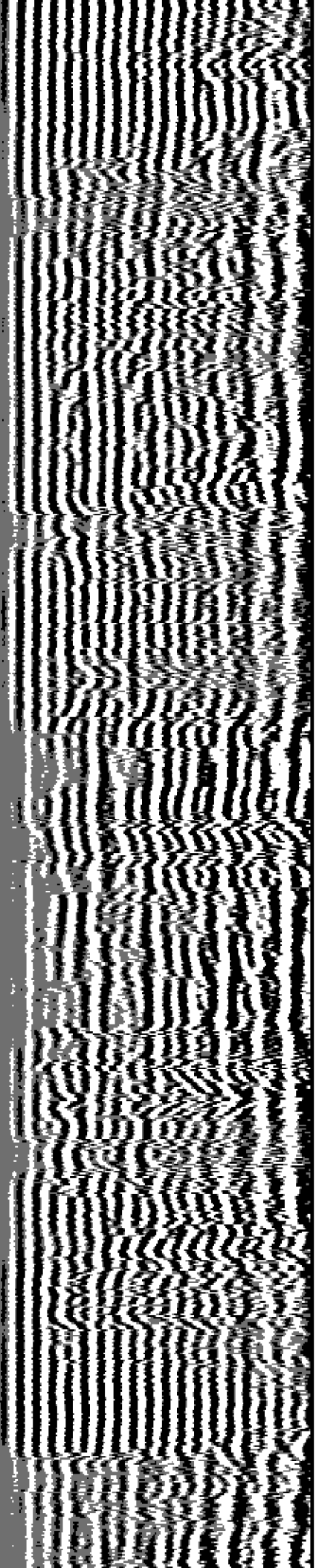
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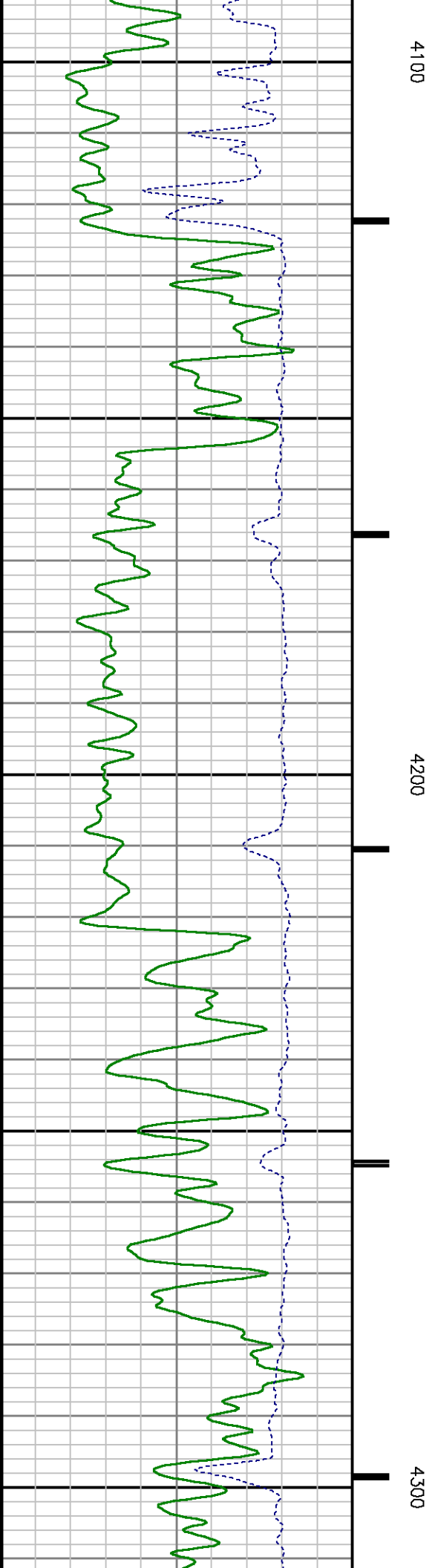
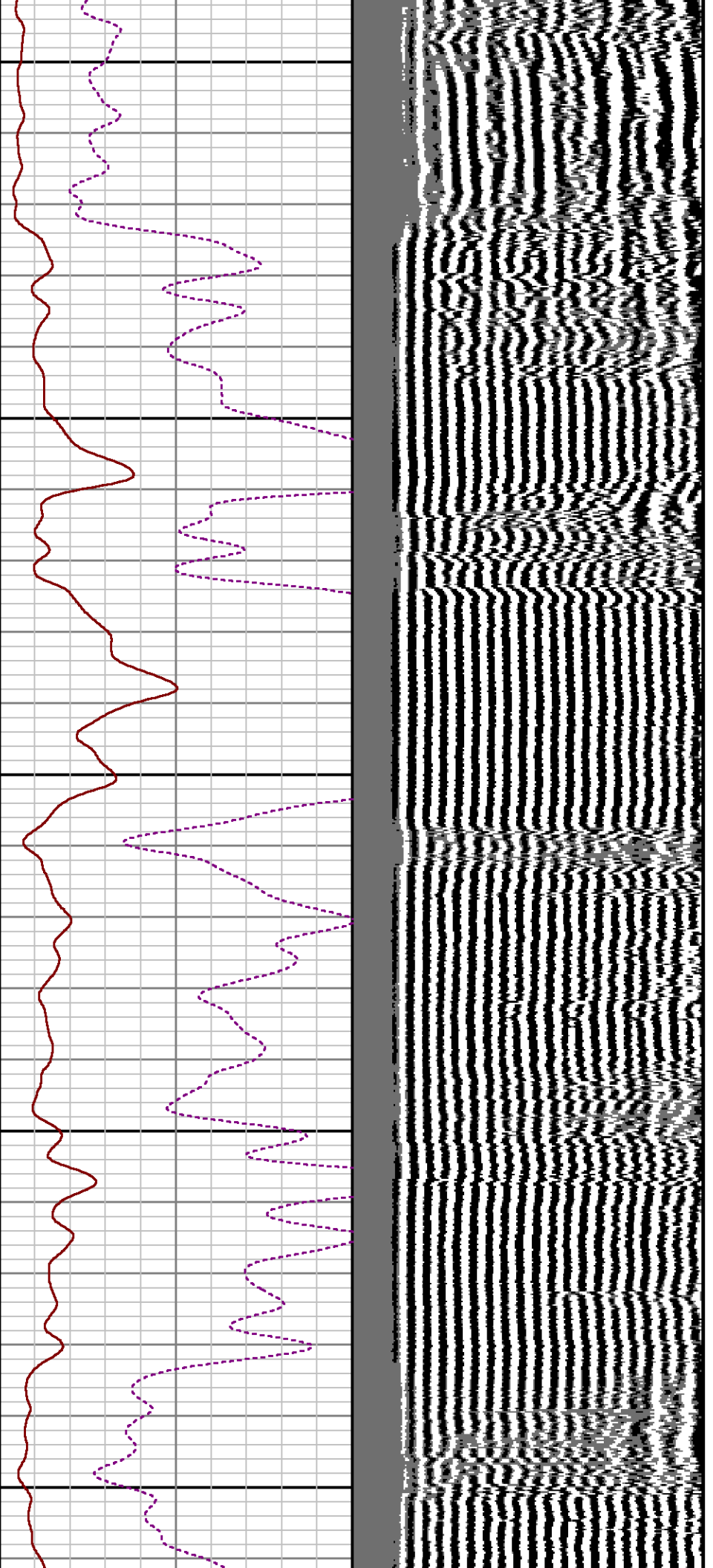


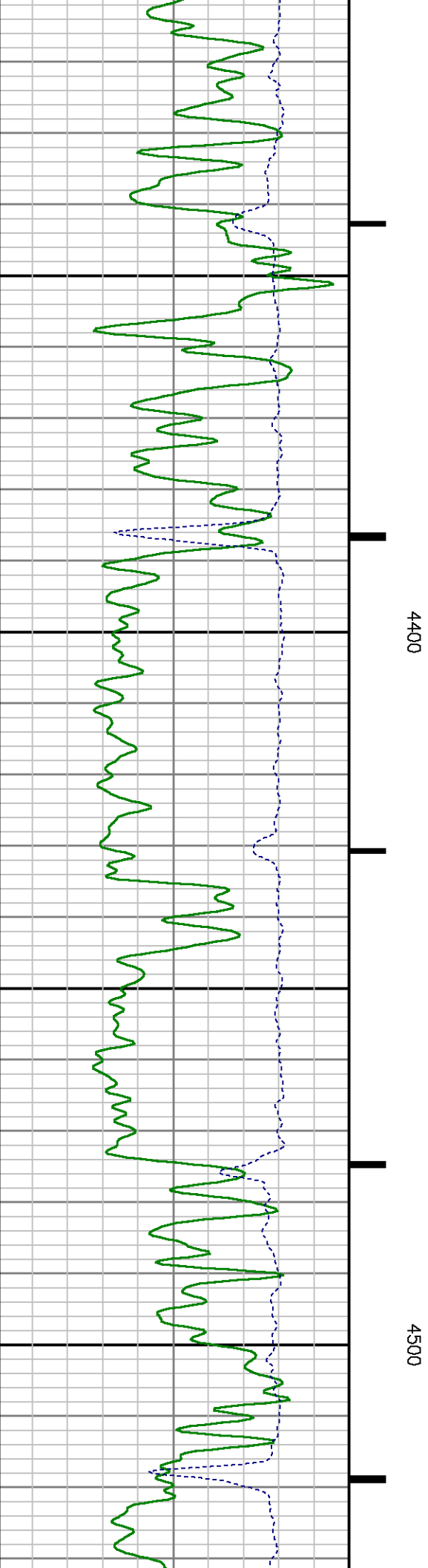
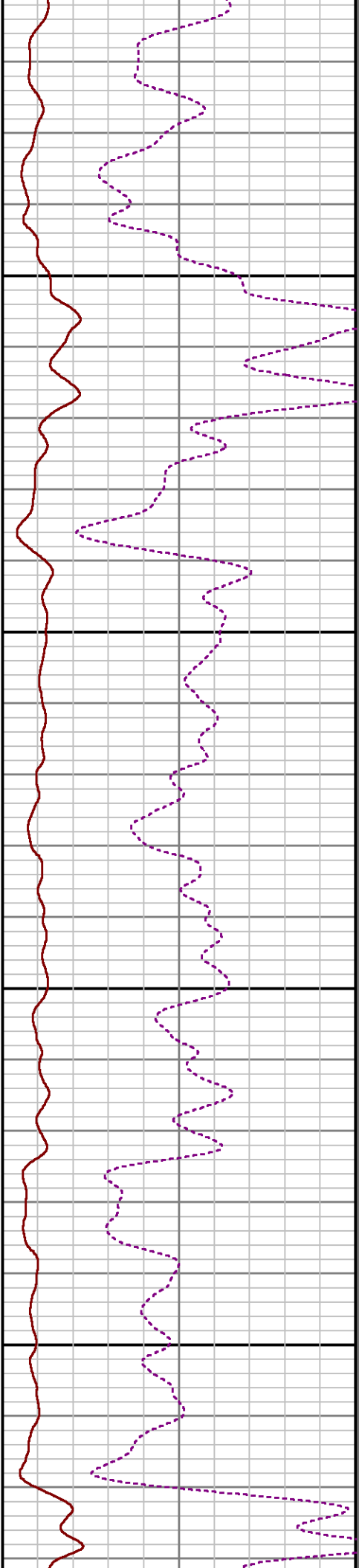
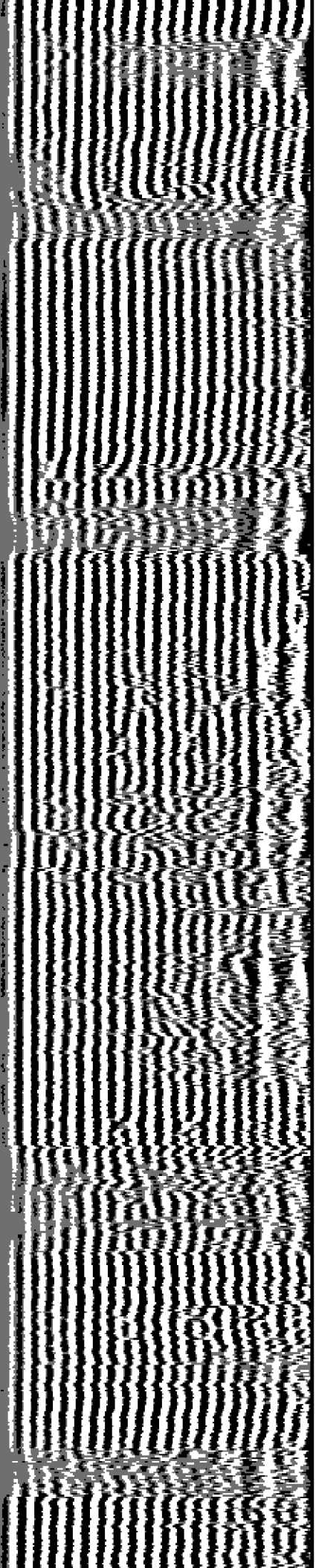


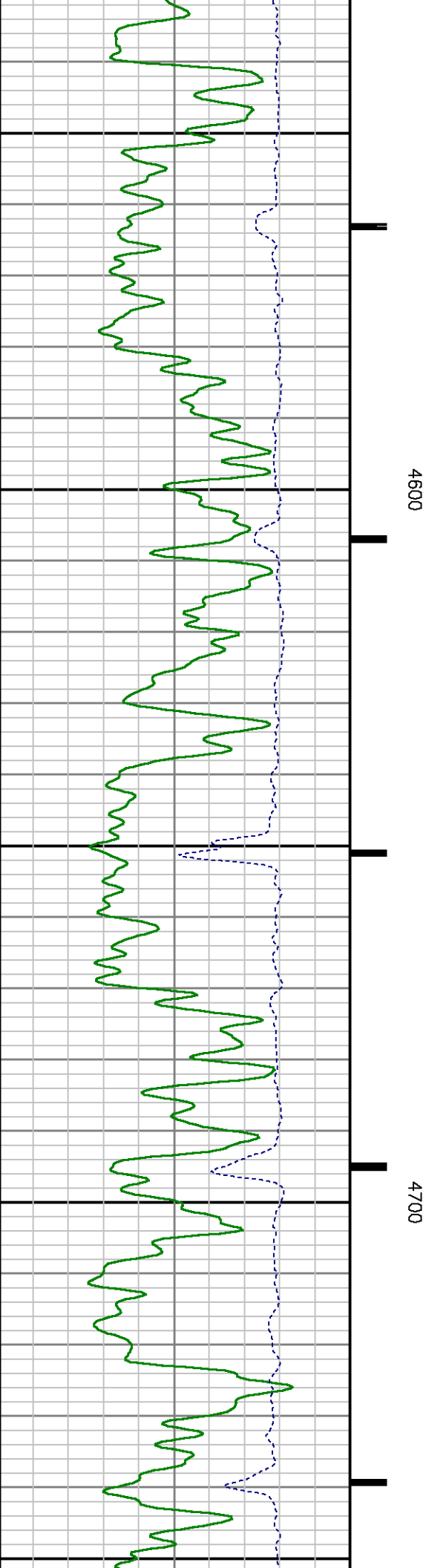
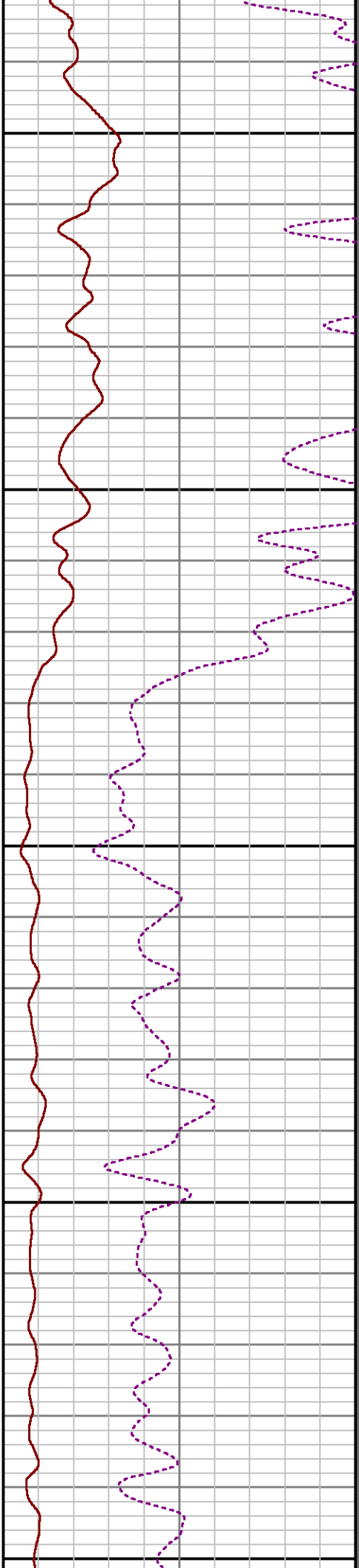
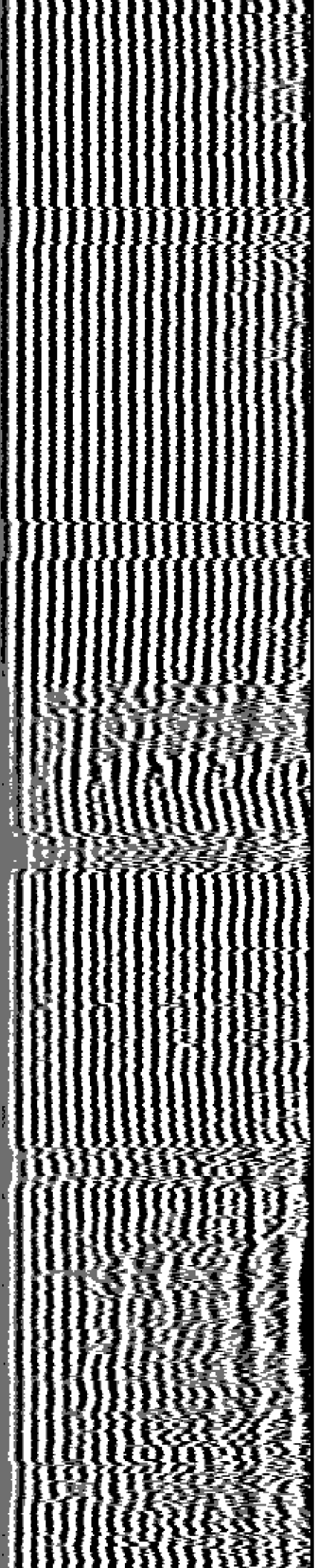


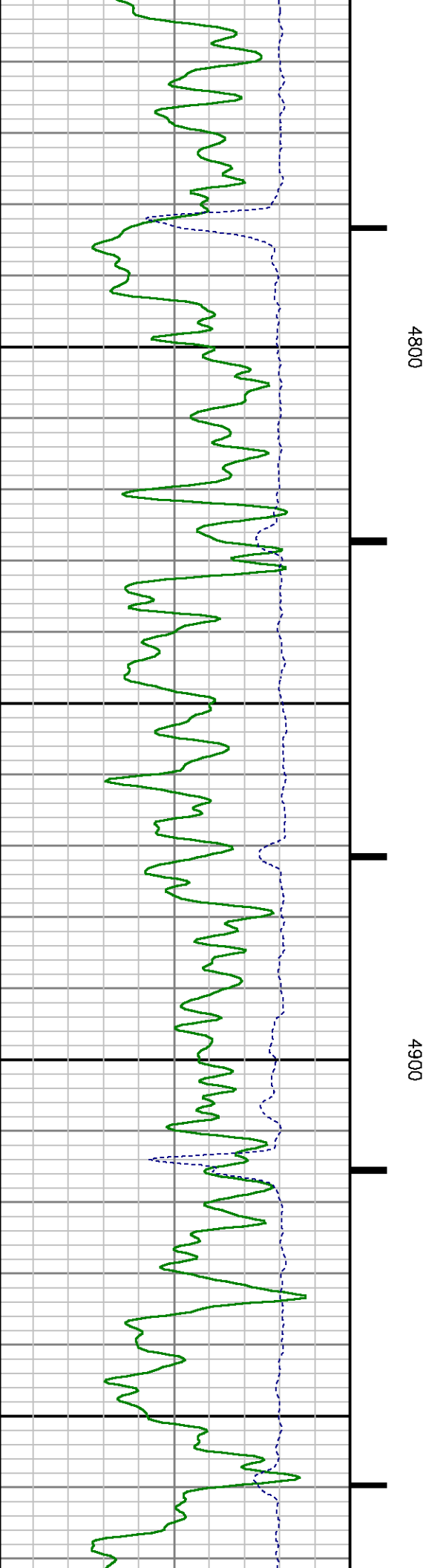
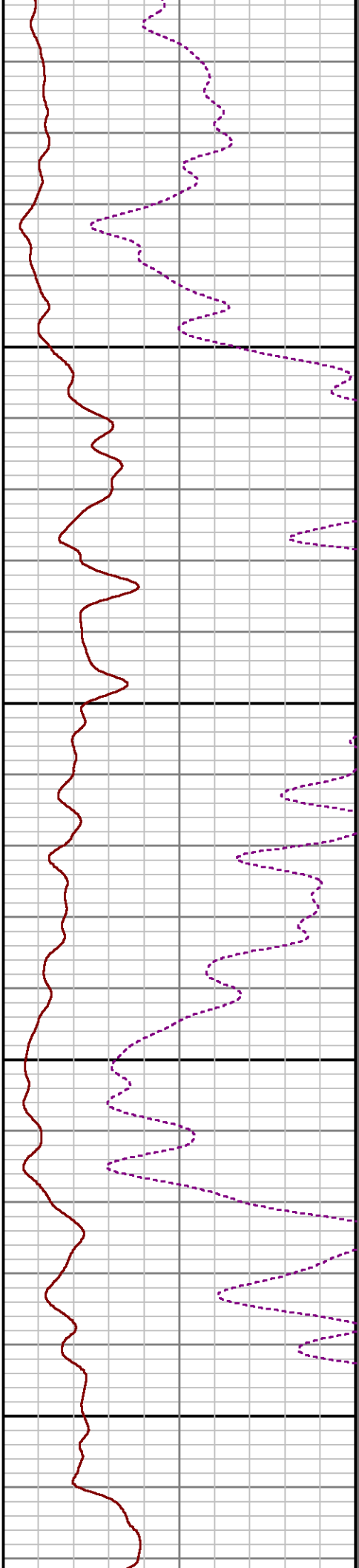
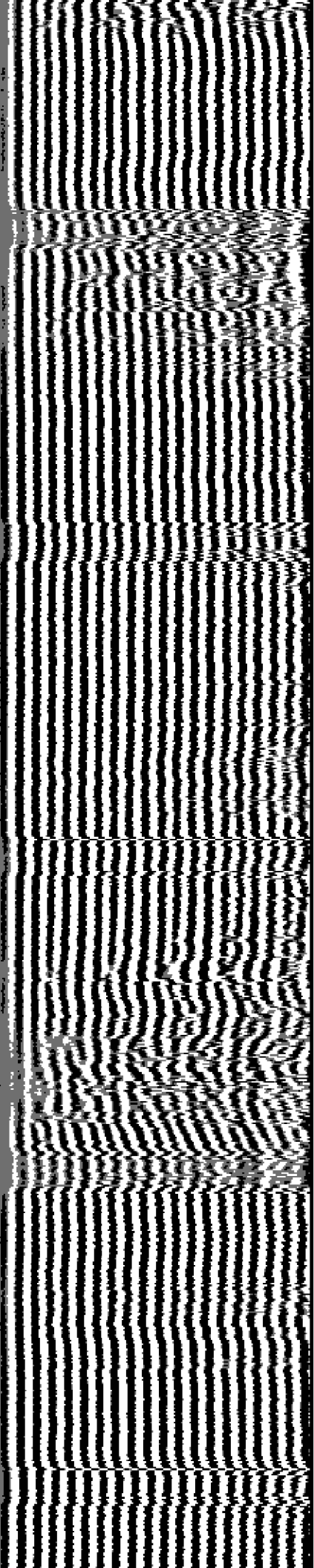


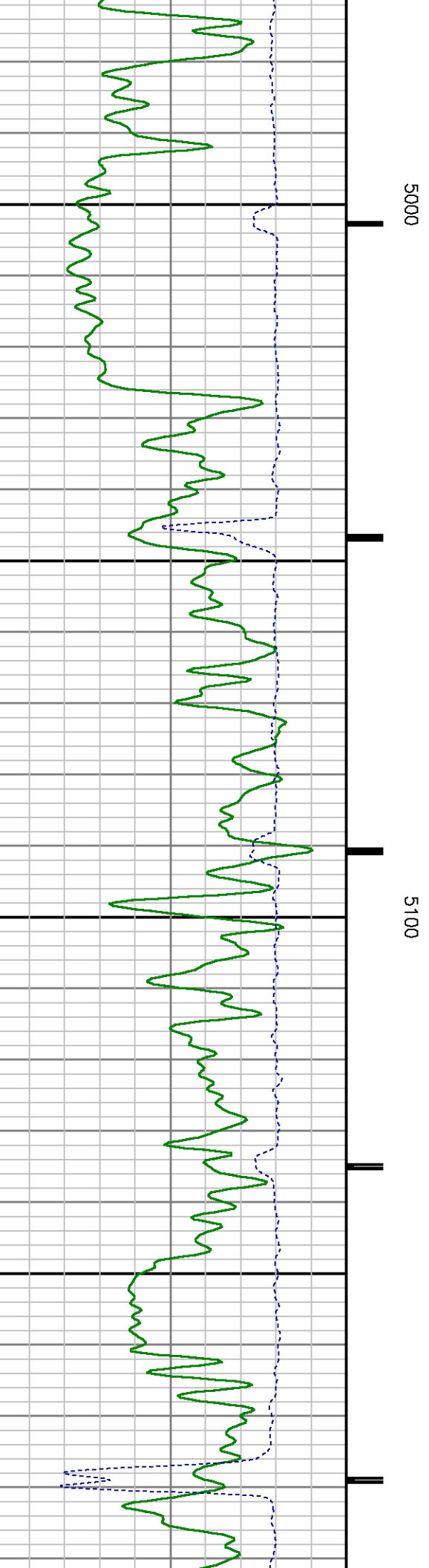
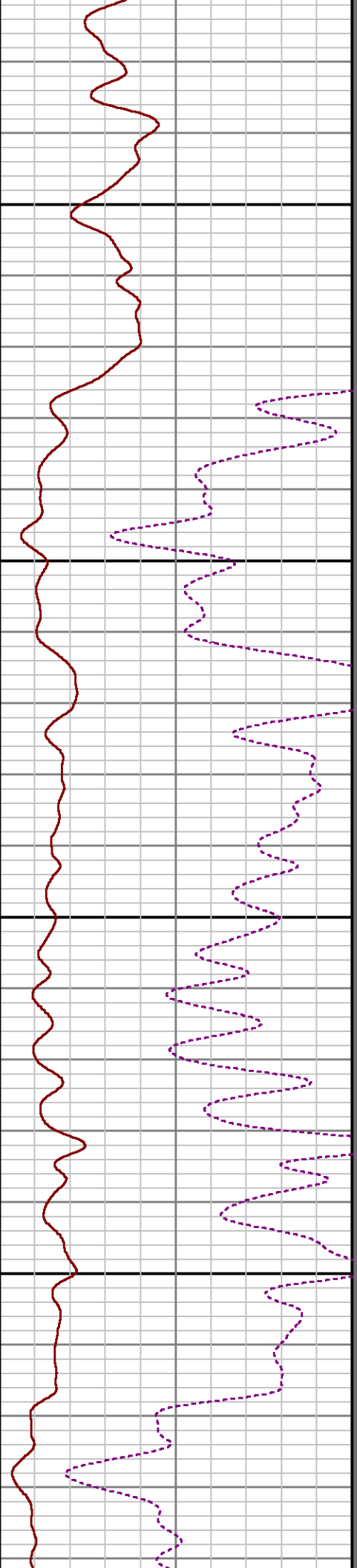
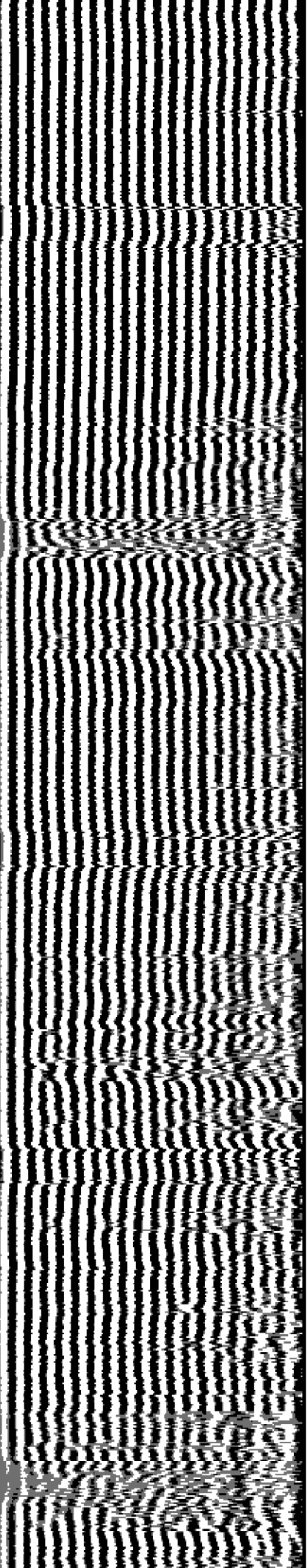


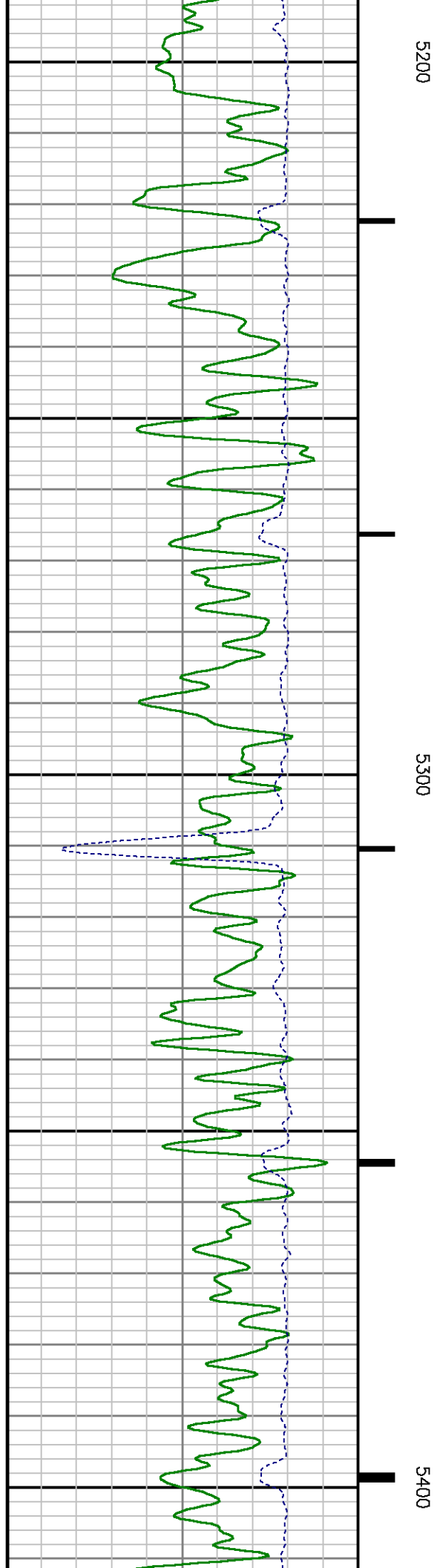
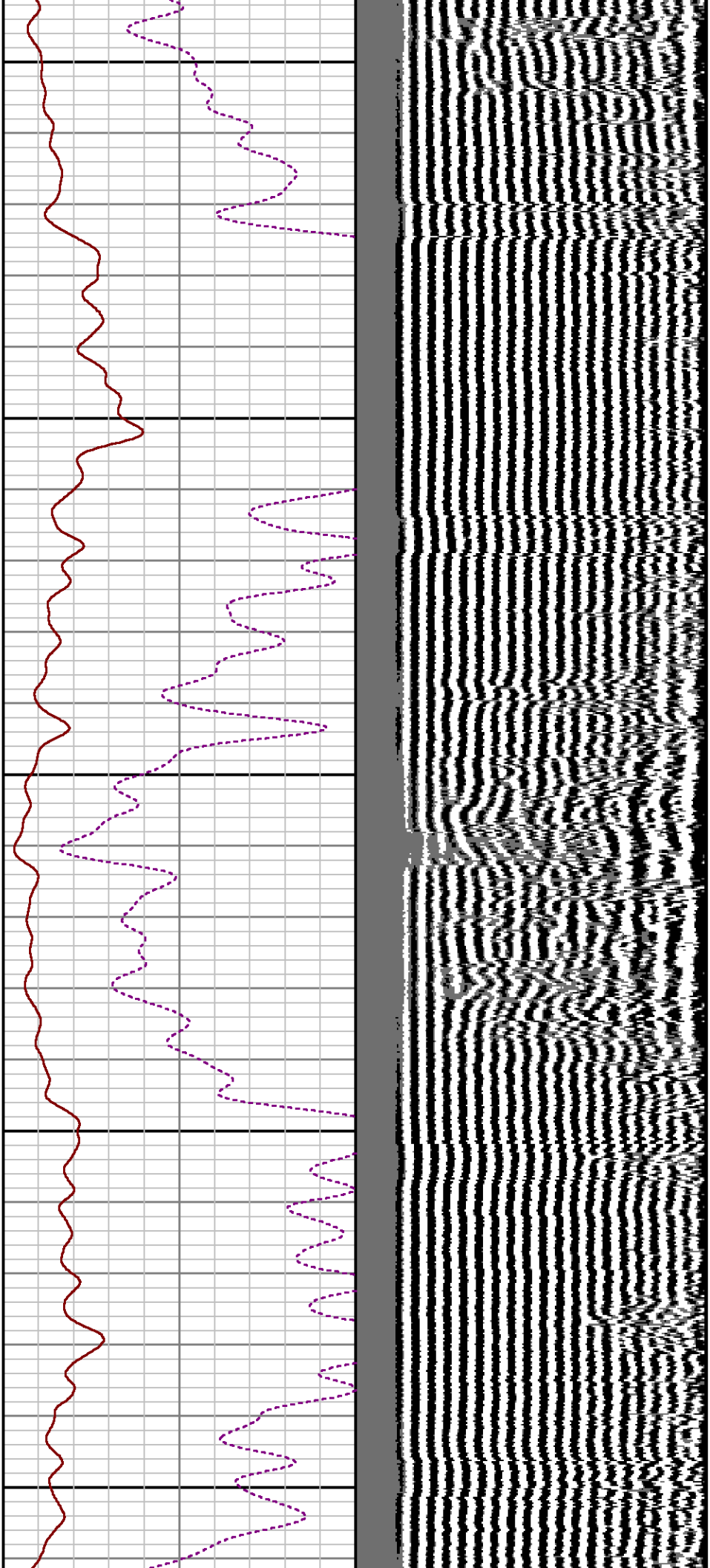


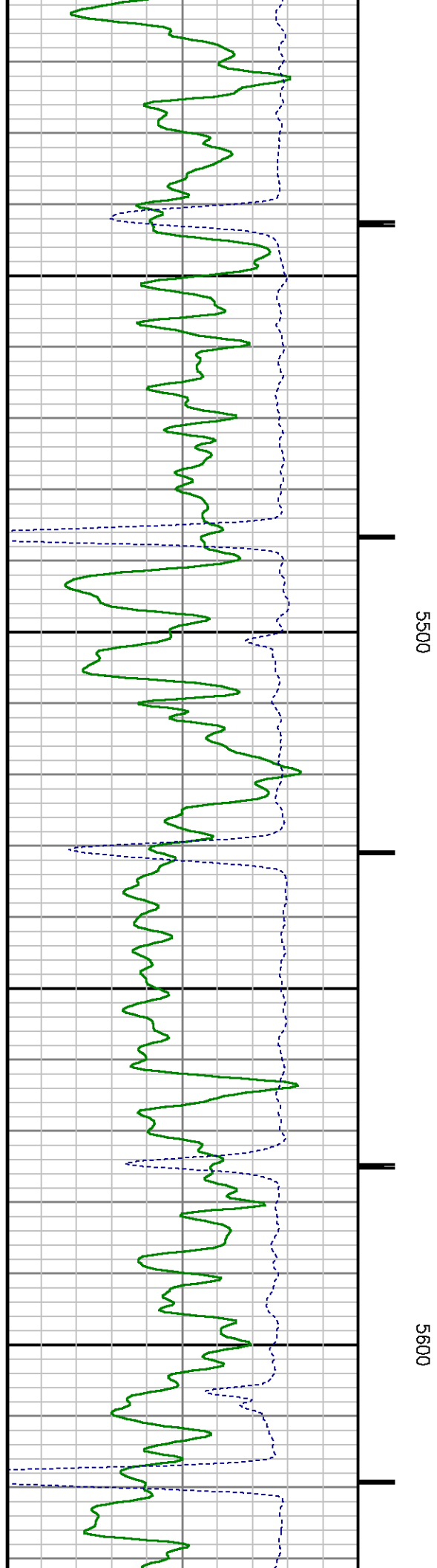
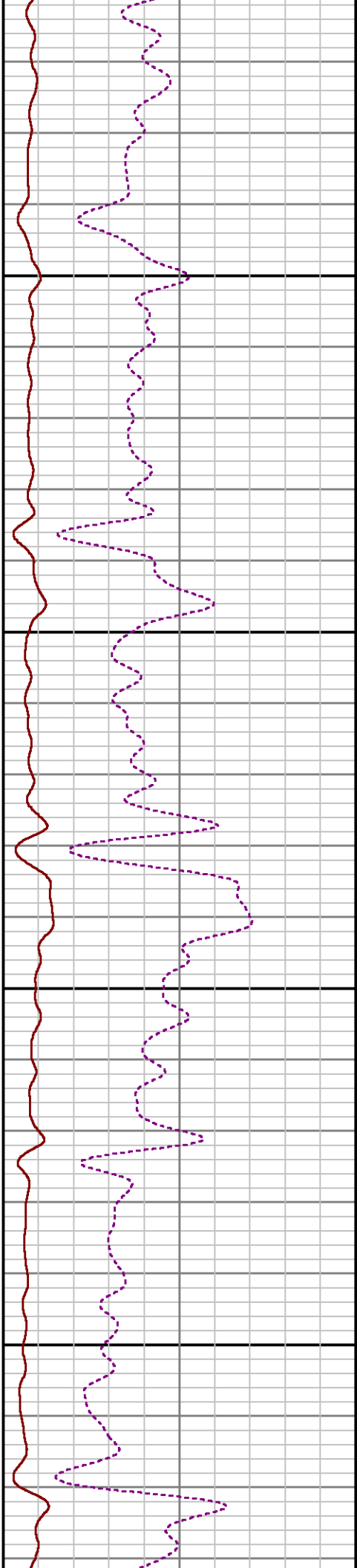
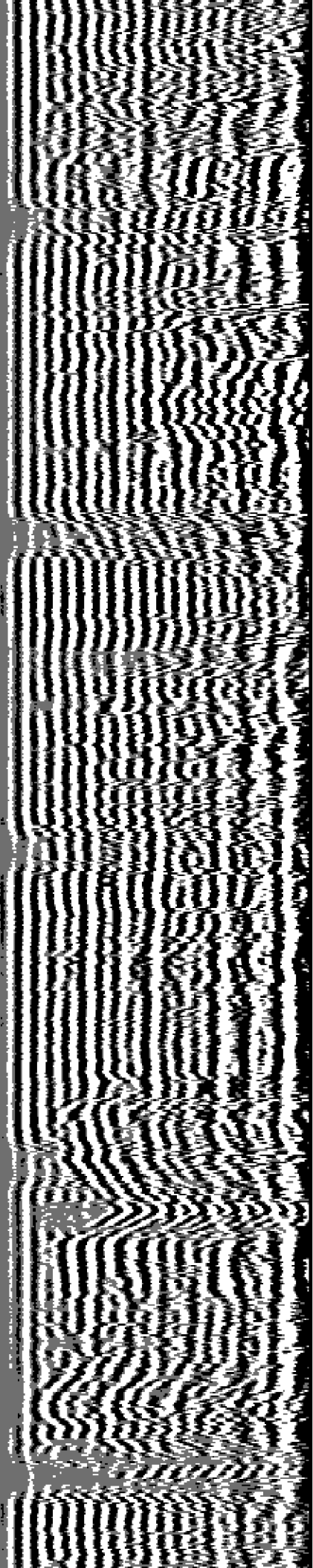


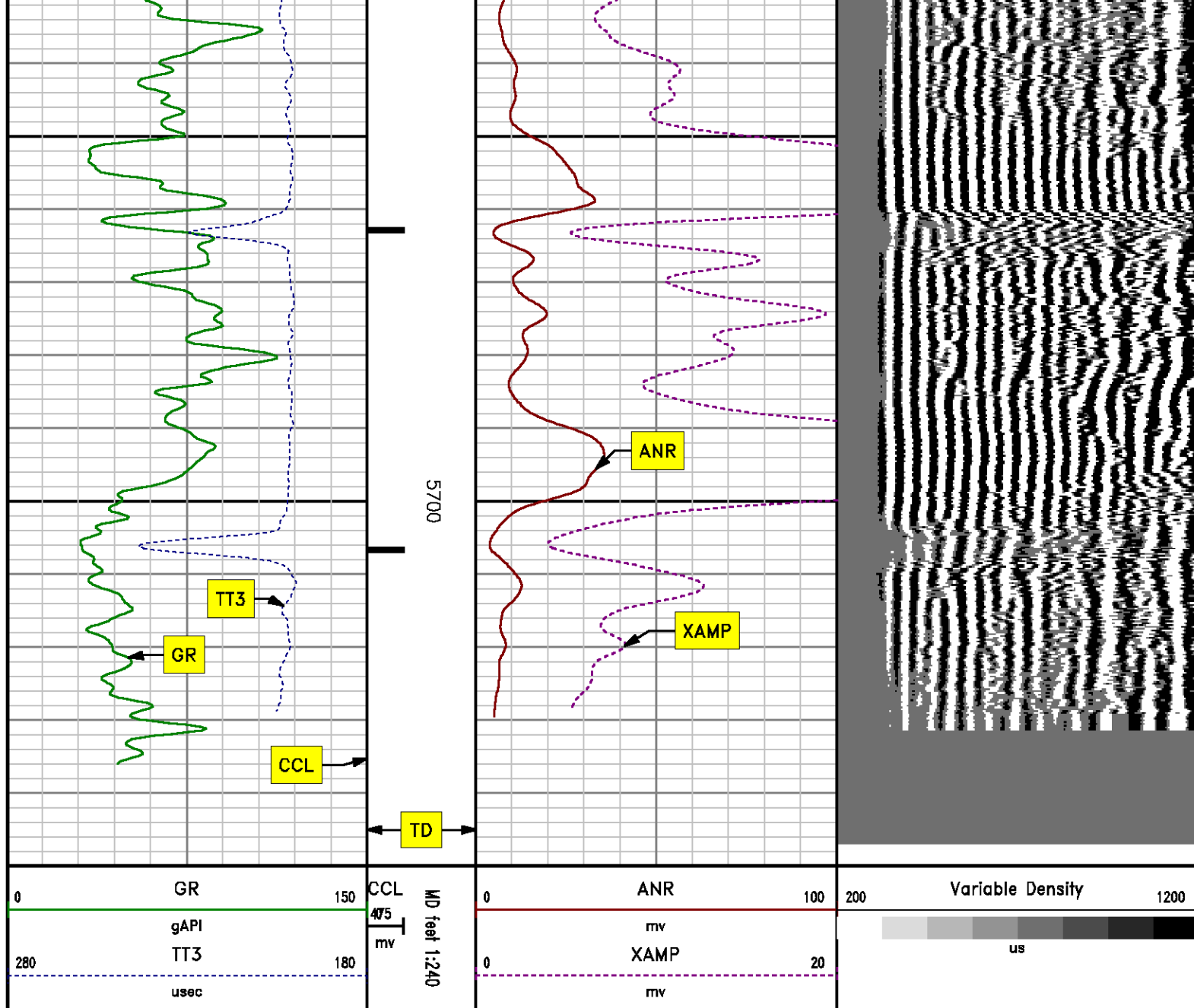












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	39.219	5746.750

RAL	Amp Gate Start Near	195.000	usec	39.219	5746.750
RAL	Amp Gate Start Radial	195.000	usec	39.219	5746.750
RAL	Amp Gate Width Far	25.000	usec	39.219	5746.750
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RAL	Amp Gate Width Radial	25.000	usec	39.219	5746.750
RAL	casing od	4.500	inches	39.219	5746.750
RAL	casing wt	11.600	lbm/ft	39.219	5746.750
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RAL	FB Start Radial	175.391	usec	39.219	5746.750
RAL	FB Thresh Far	10.000	mv	39.219	5746.750
RAL	FB Thresh Near	4.000	mv	39.219	5746.750
RAL	FB Thresh Radial	4.000	mv	39.219	5746.750
RAL	Fluid Travel Time	200.000	usec/ft	39.219	5746.750

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

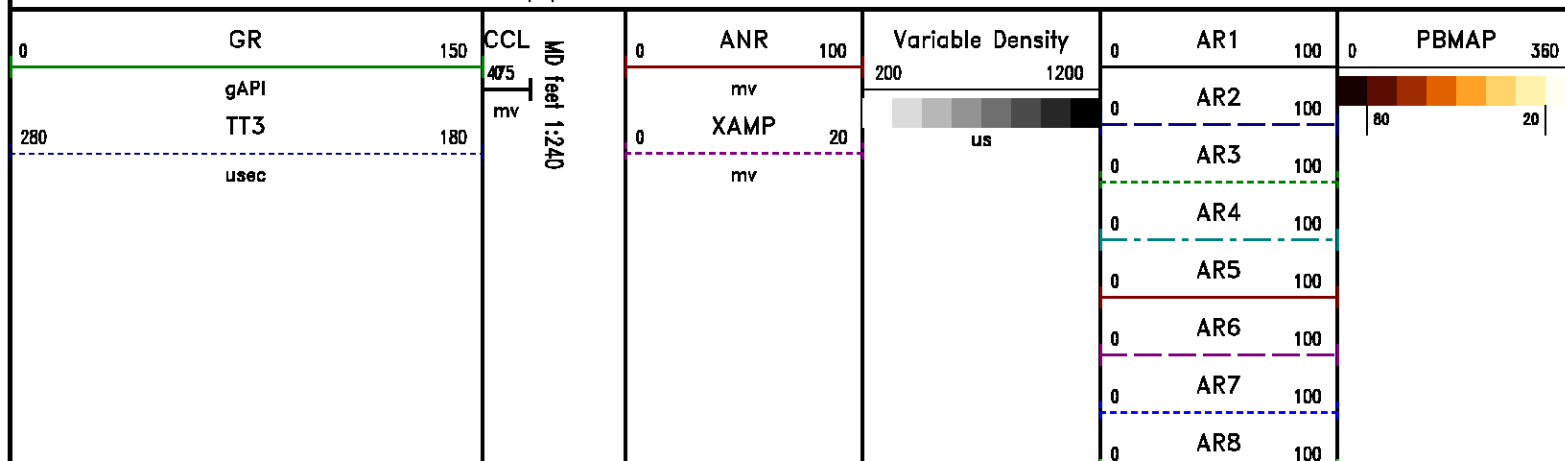
Well : BOSELY SG 411-27

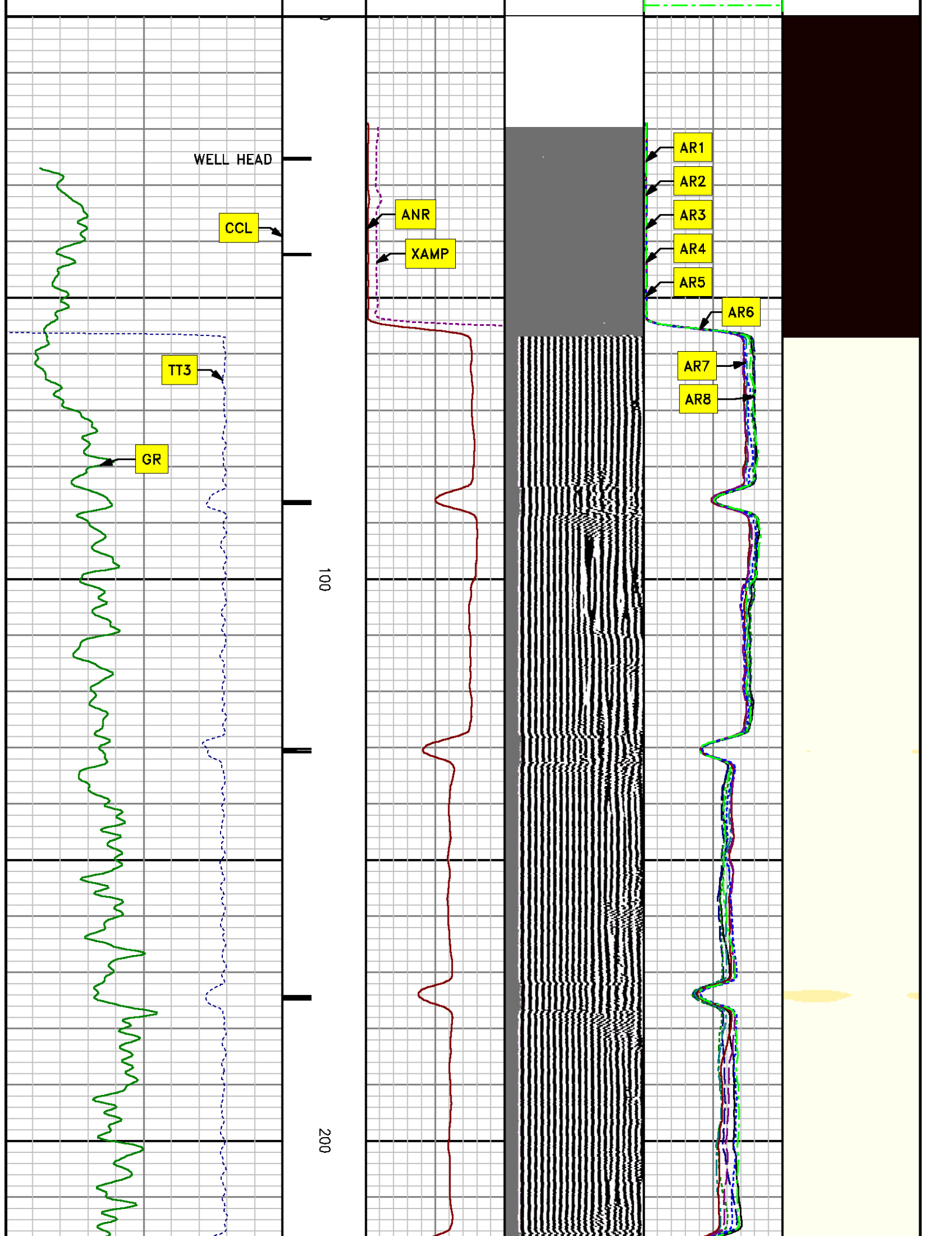
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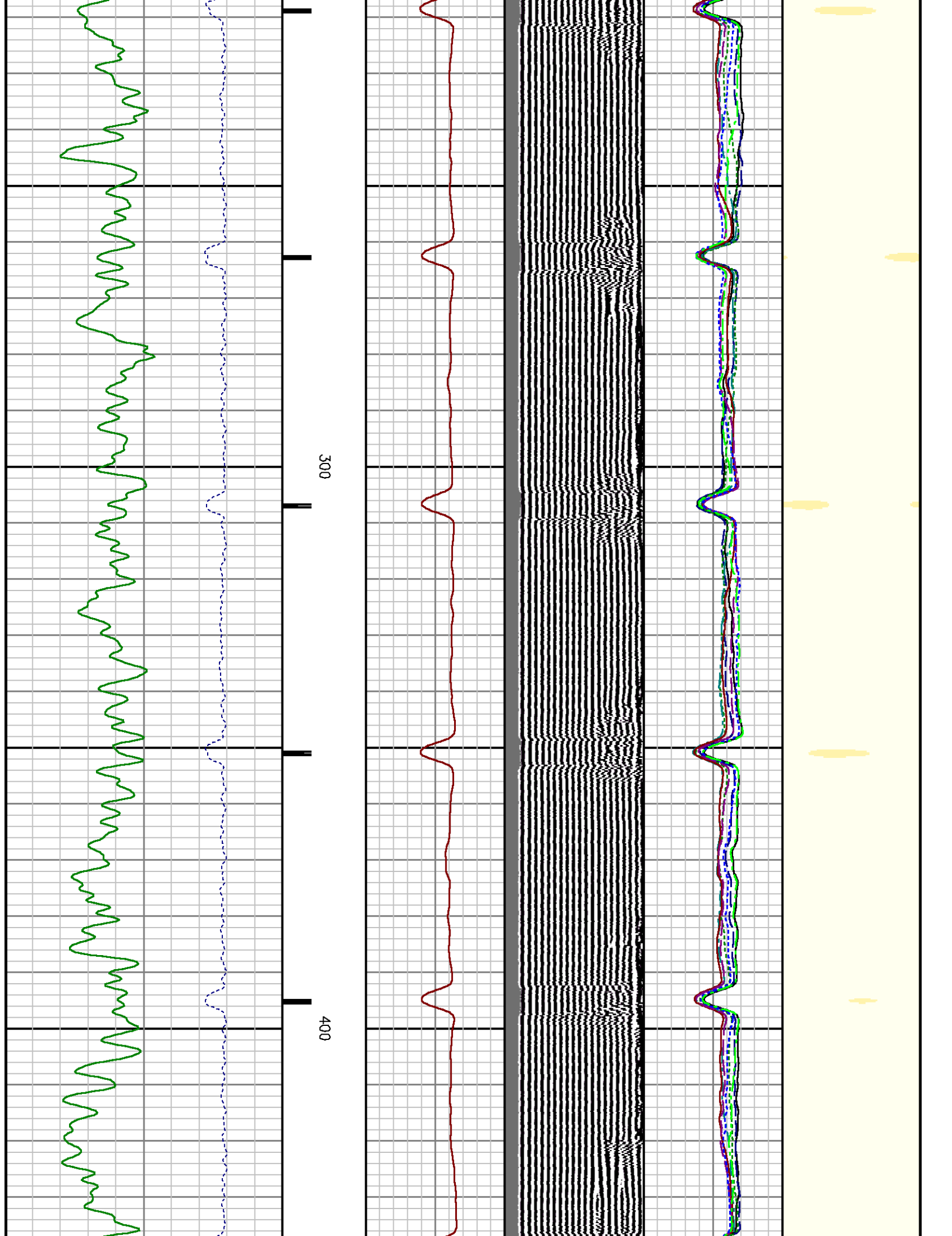
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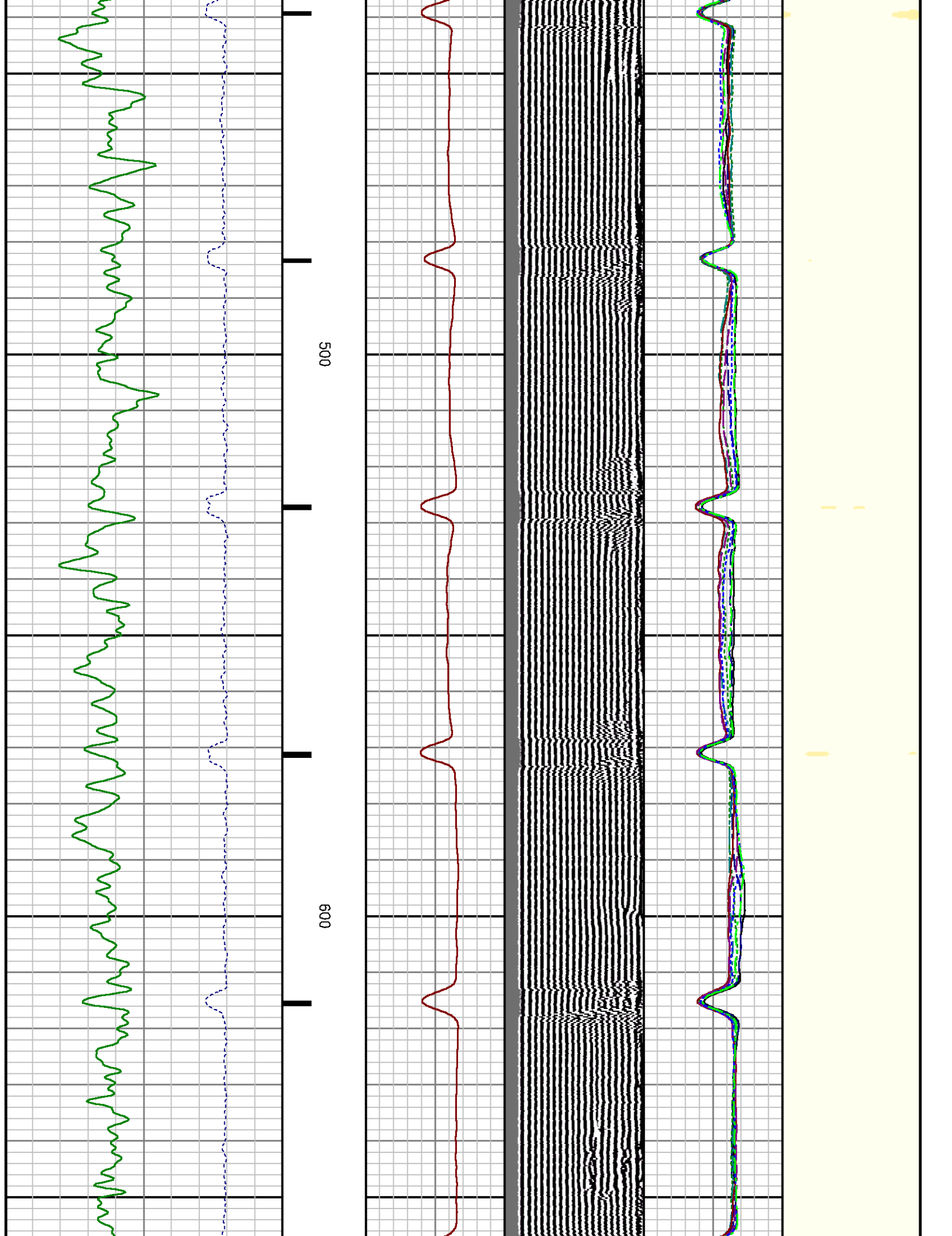
Interval : 0.00 - 5750.00 feet UP

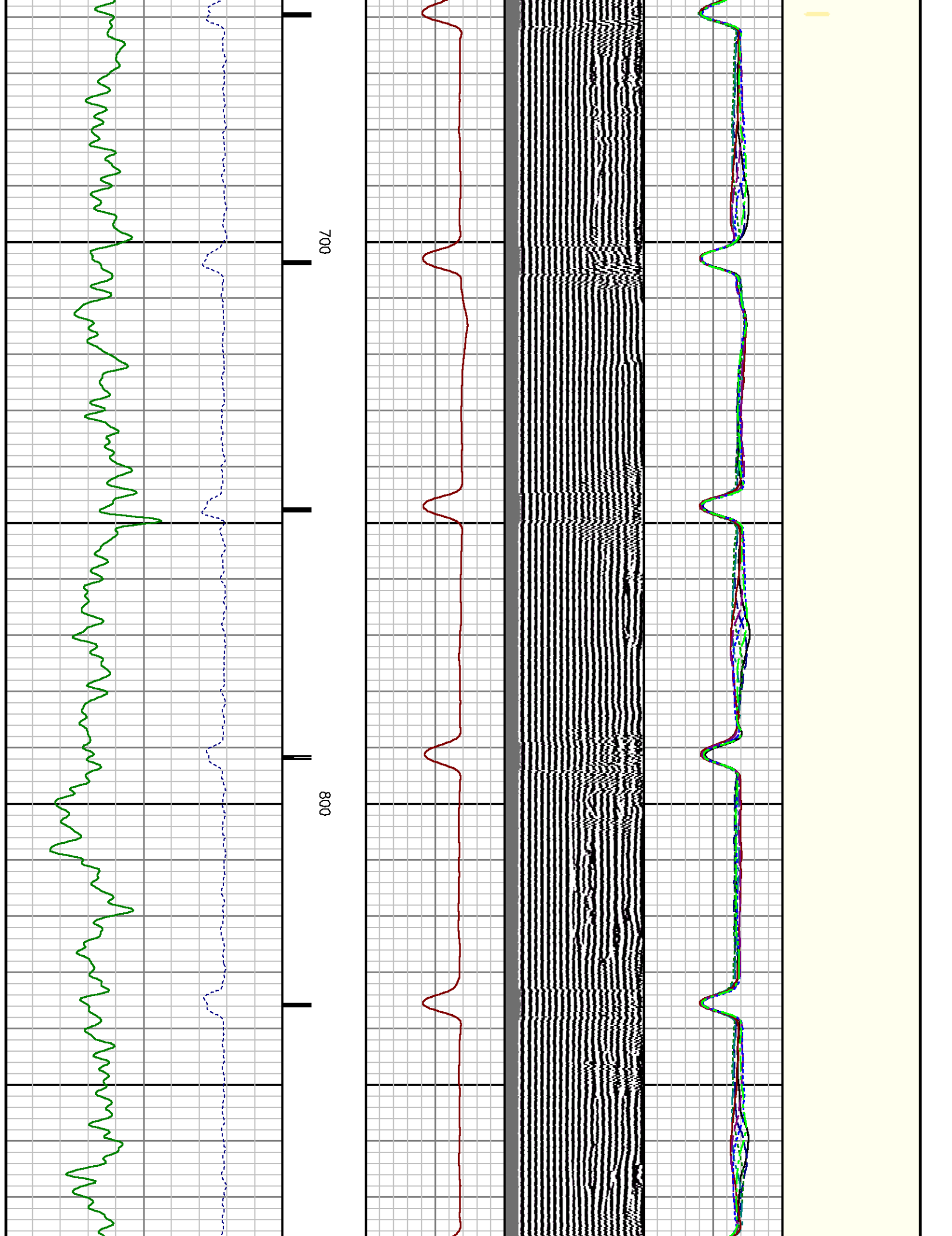
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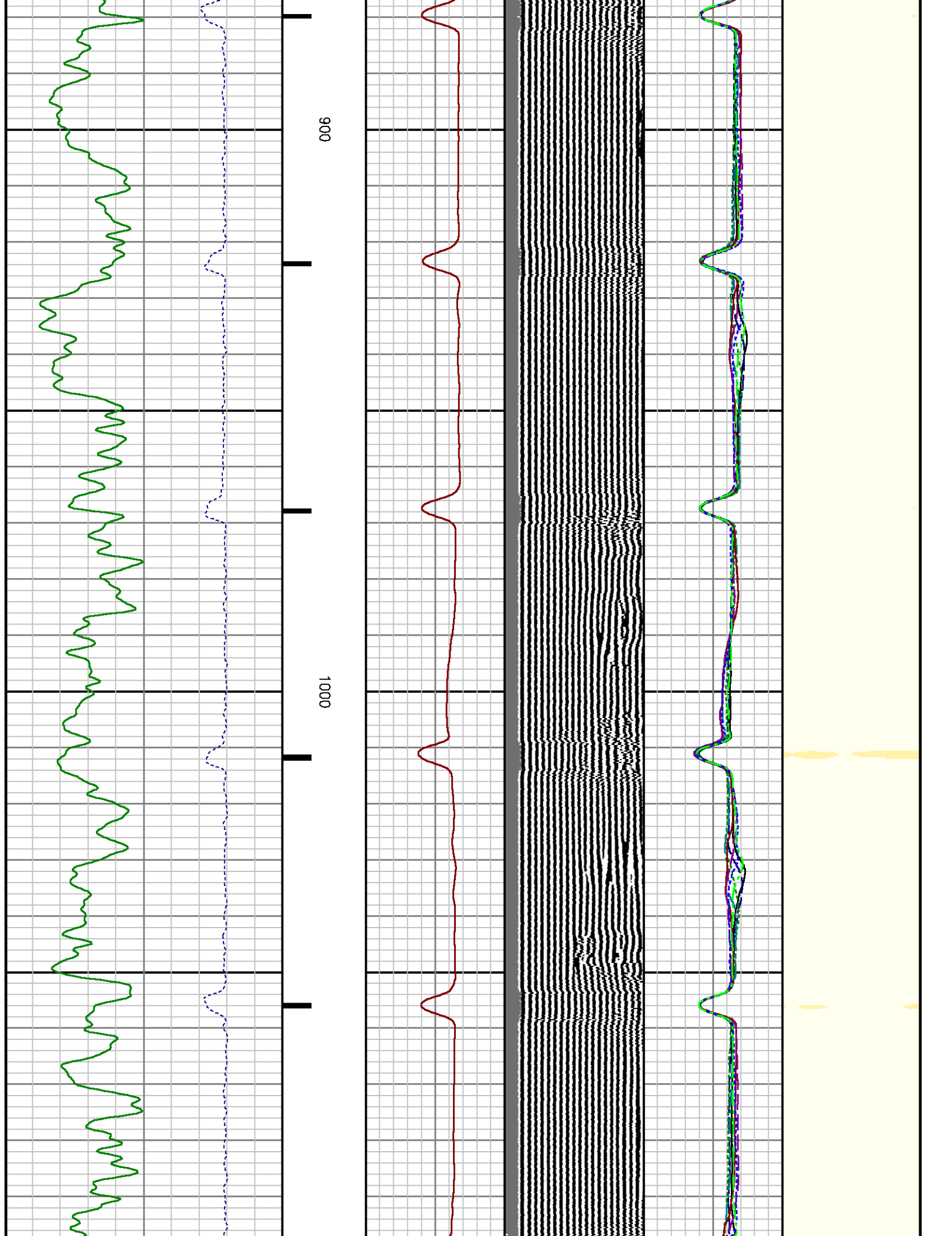


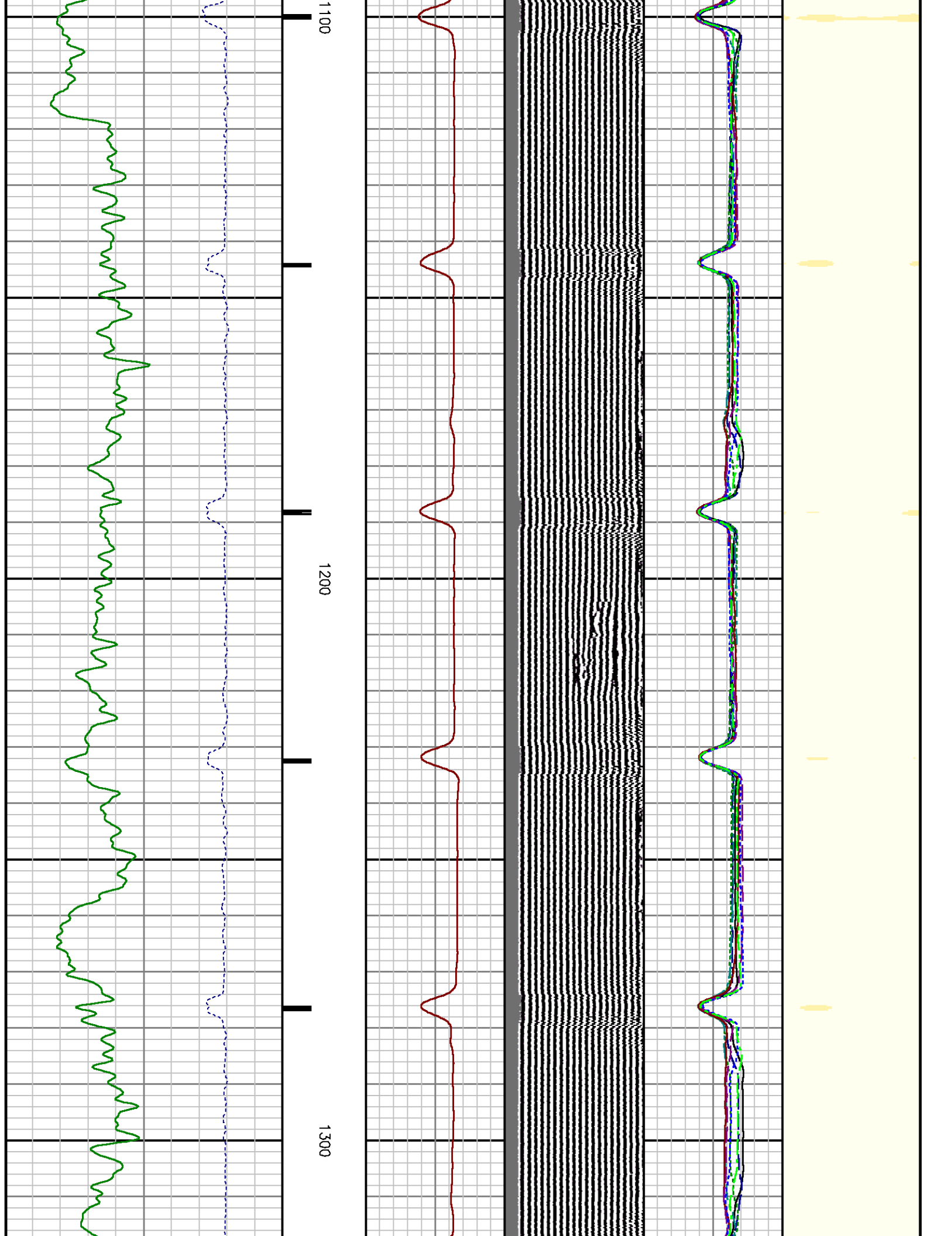


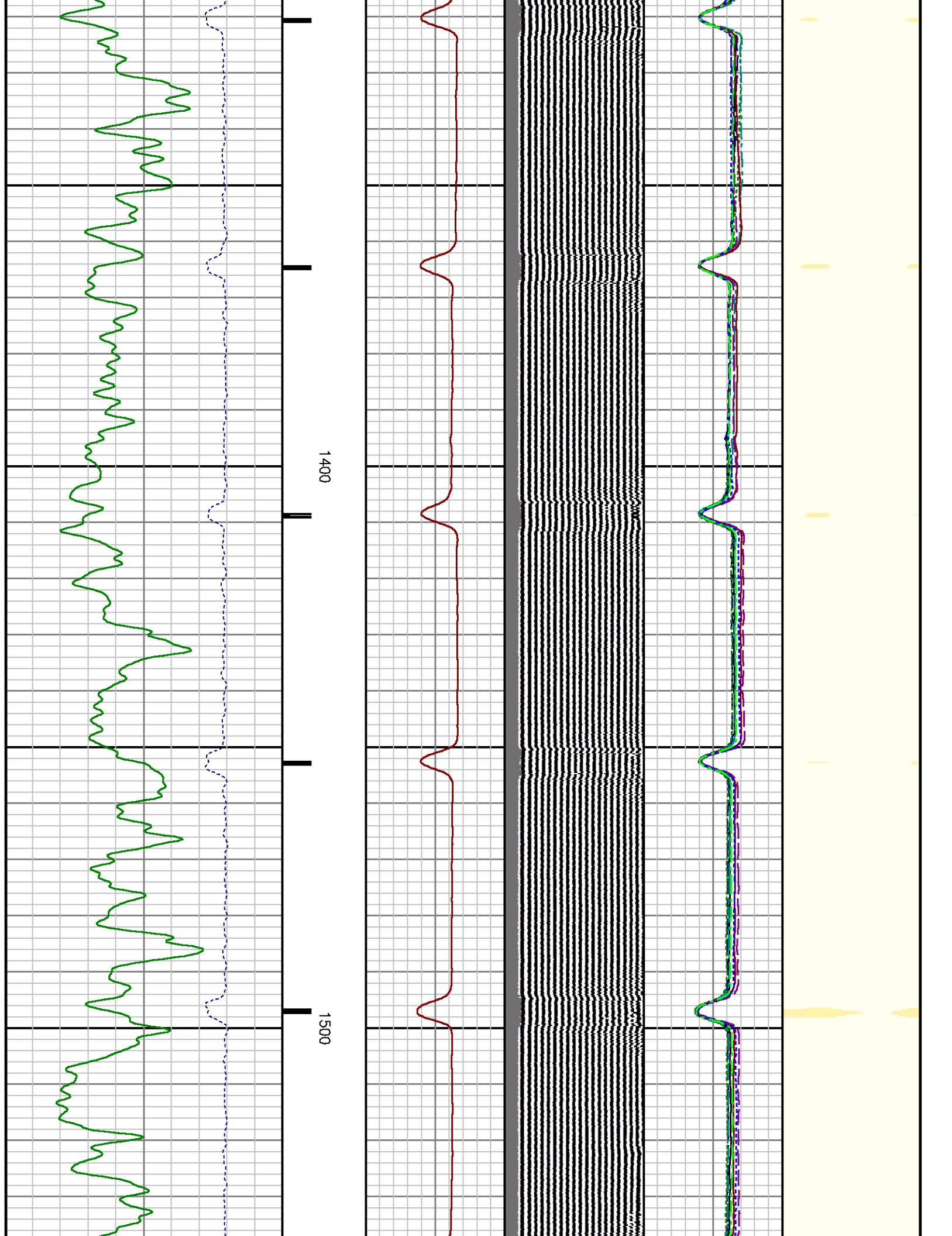


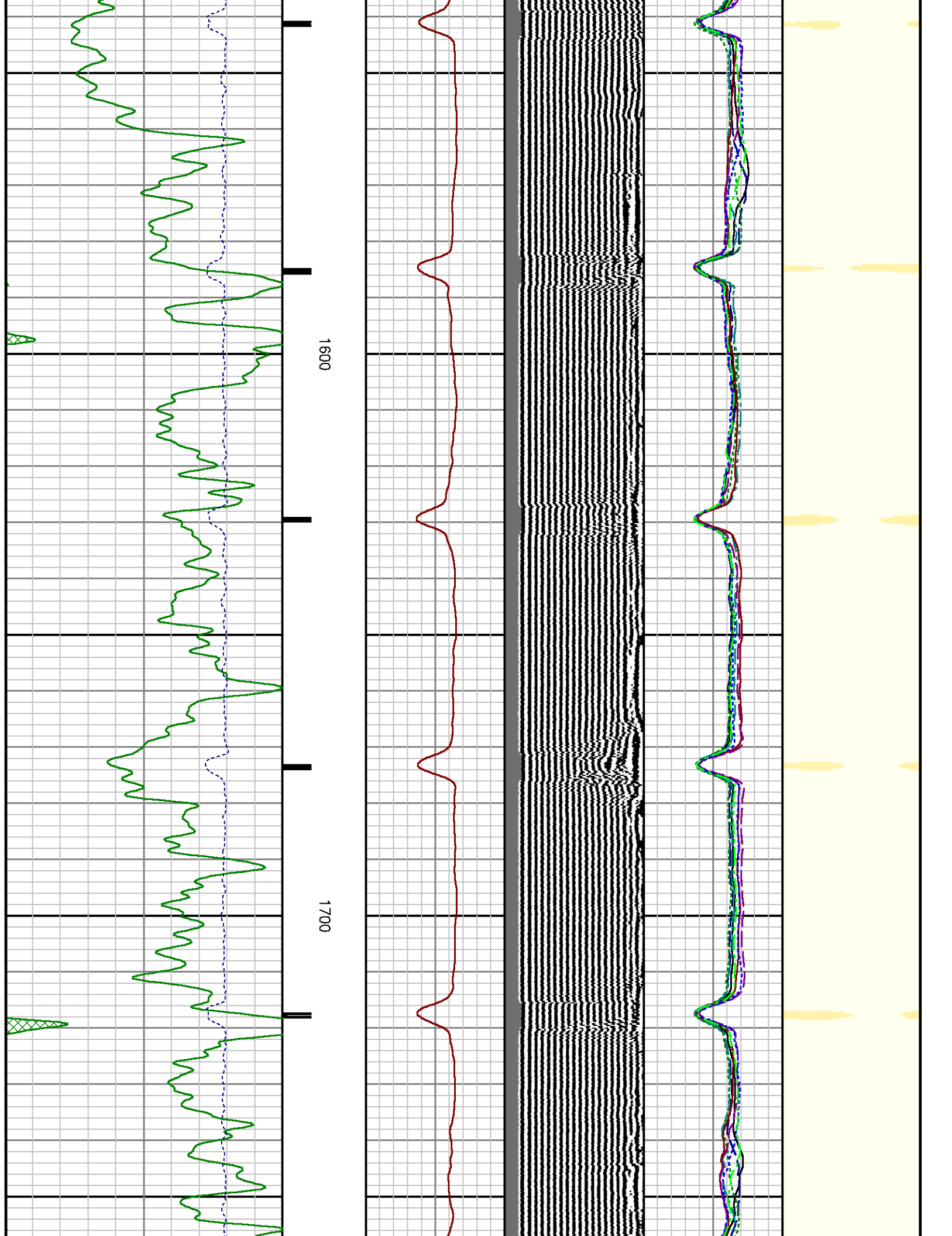


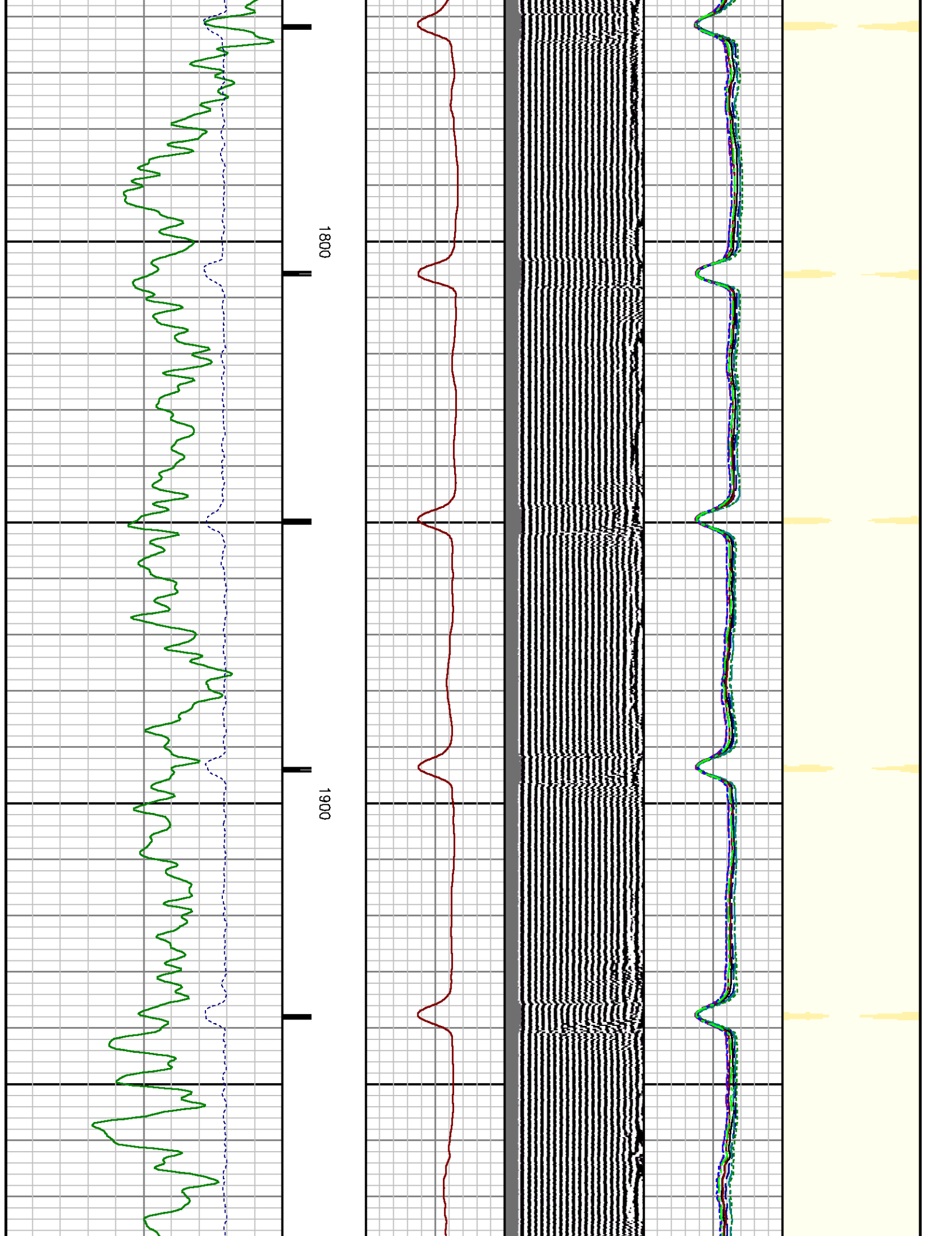


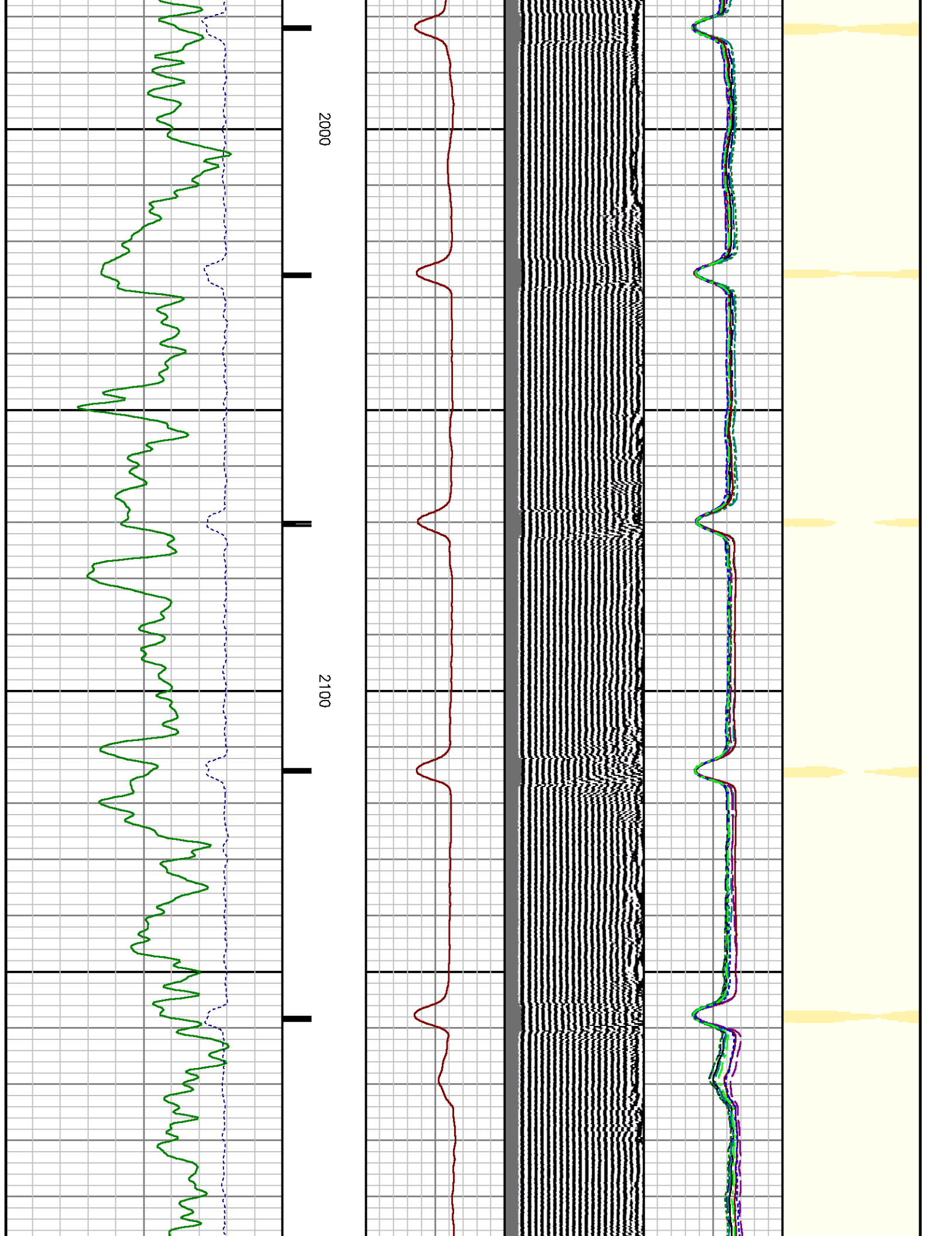


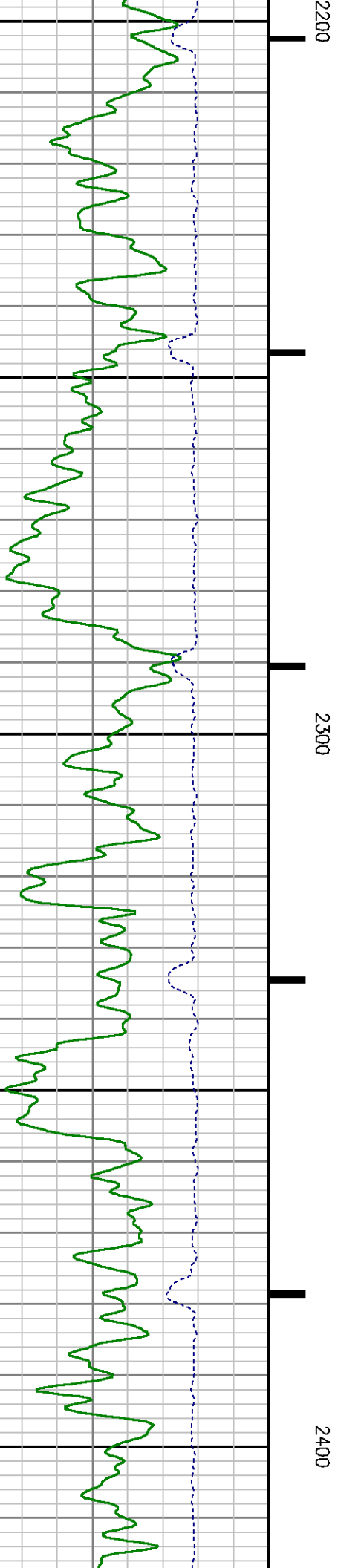
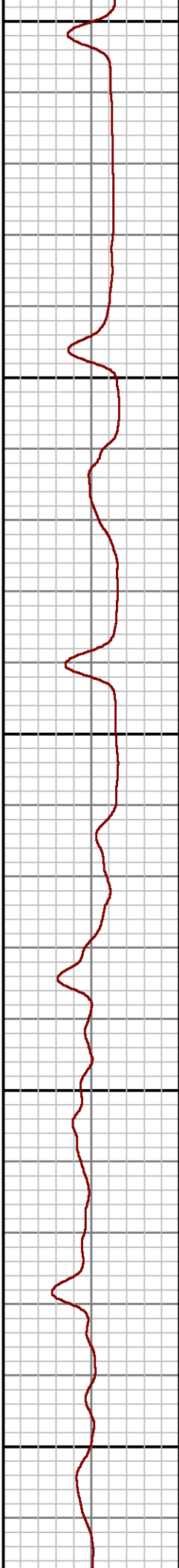
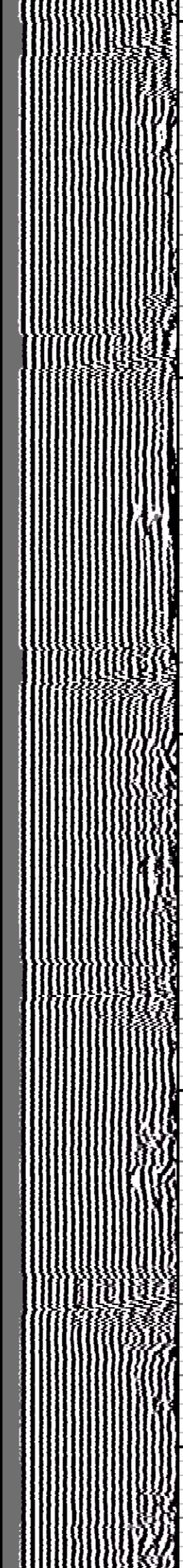
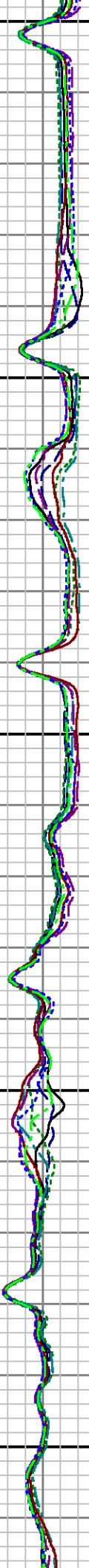
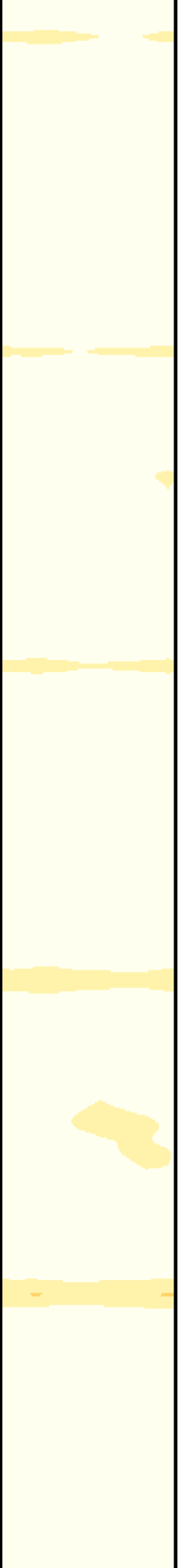


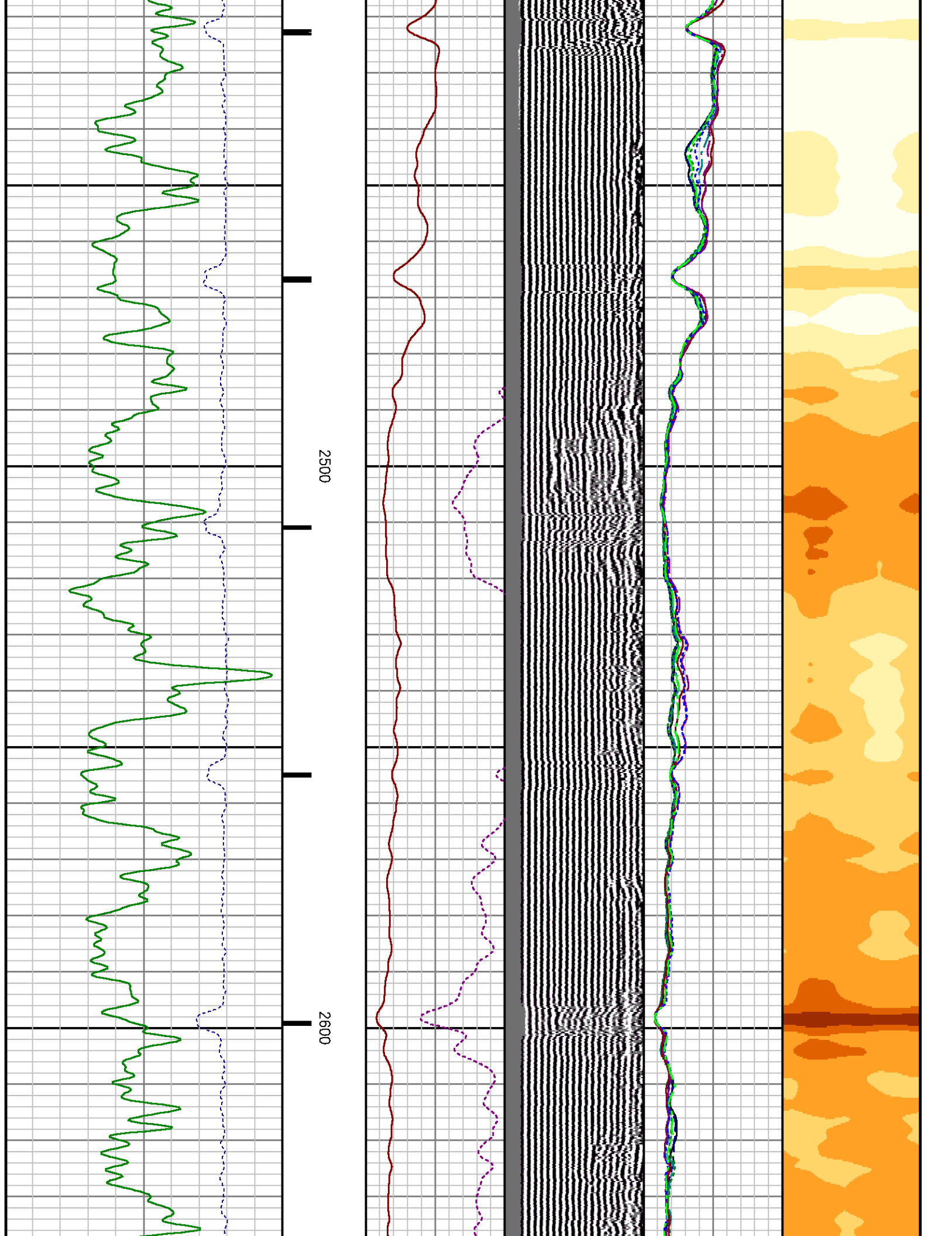


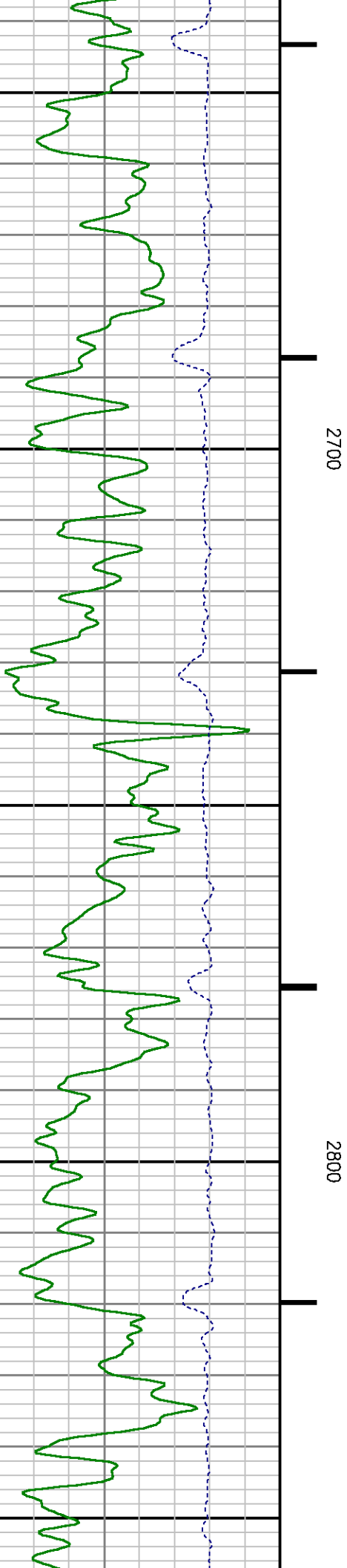
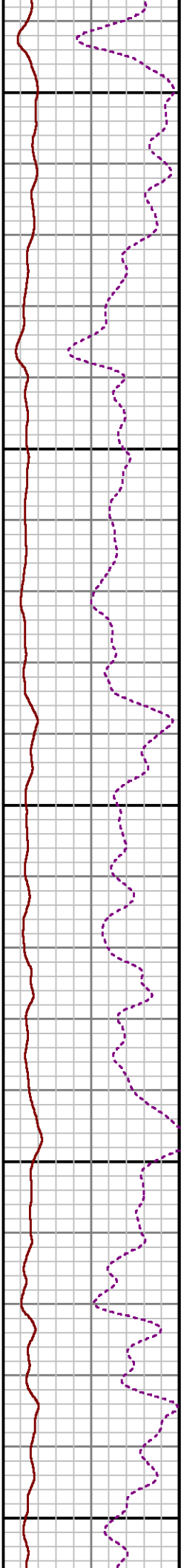
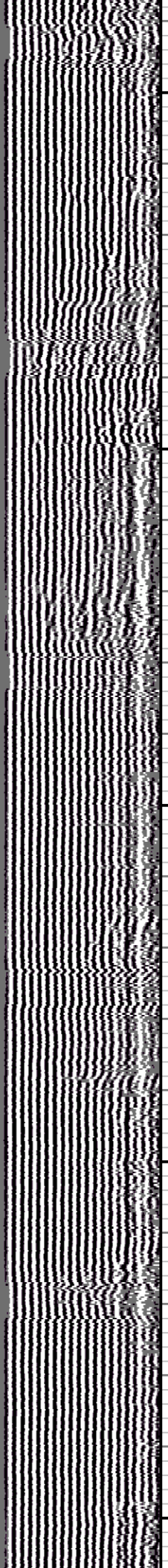
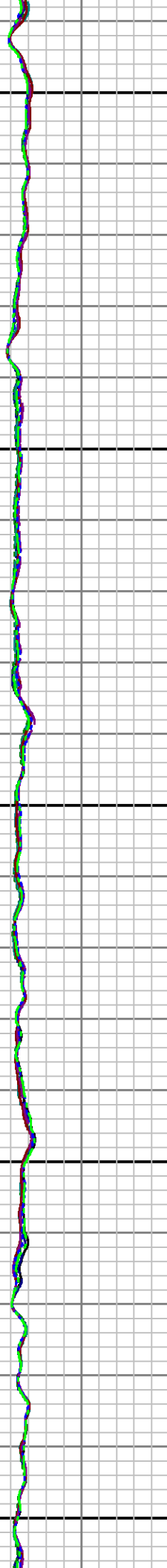
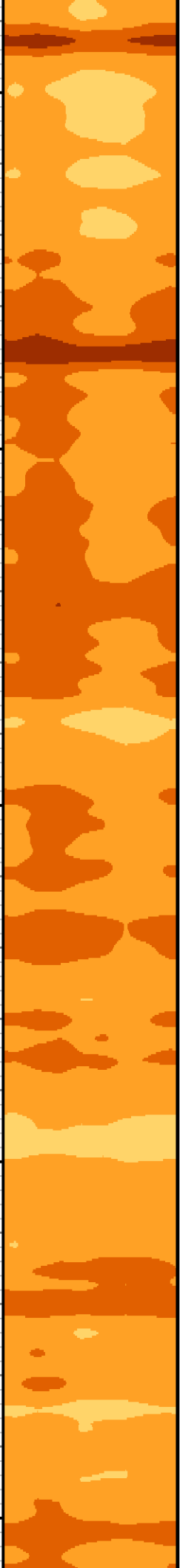


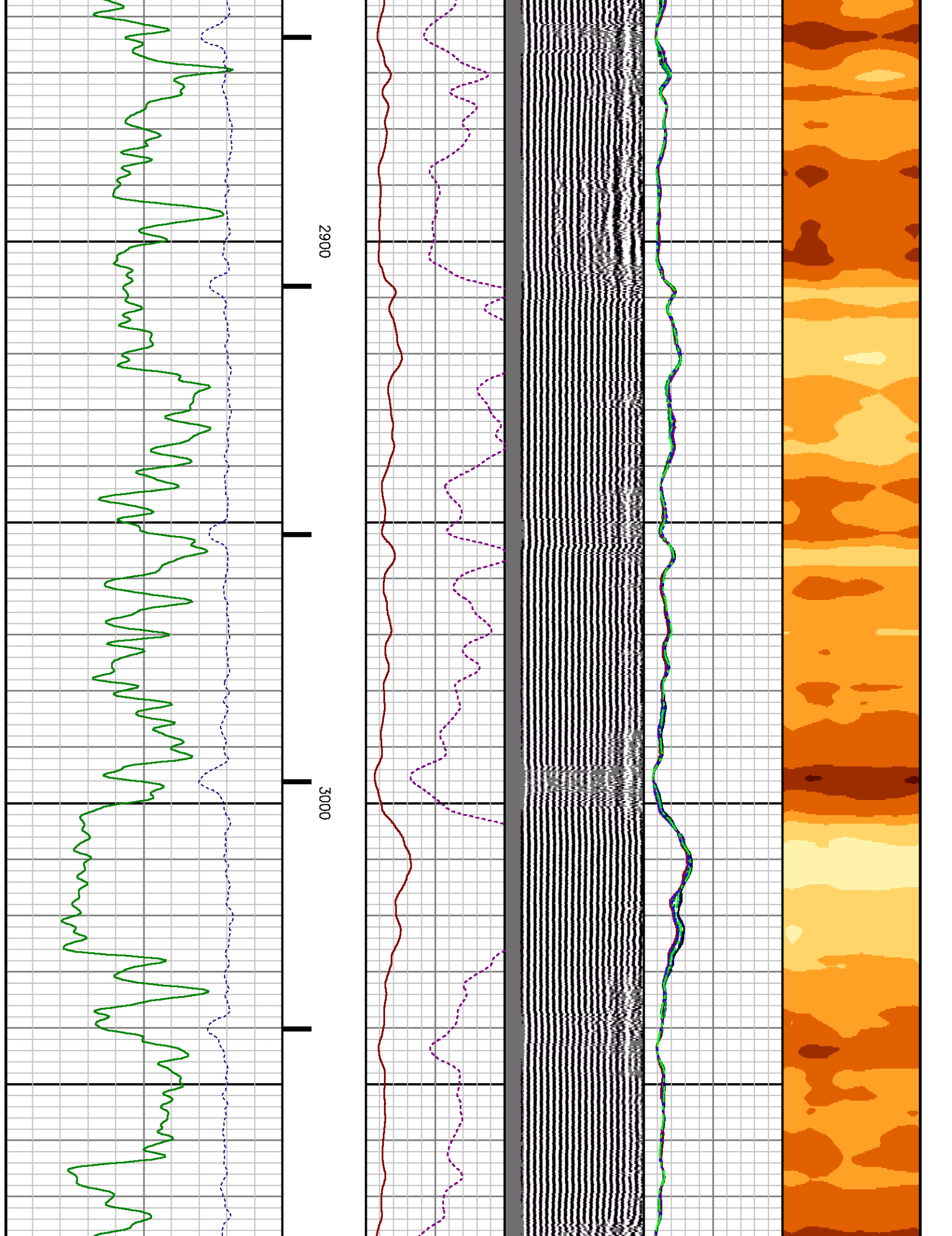


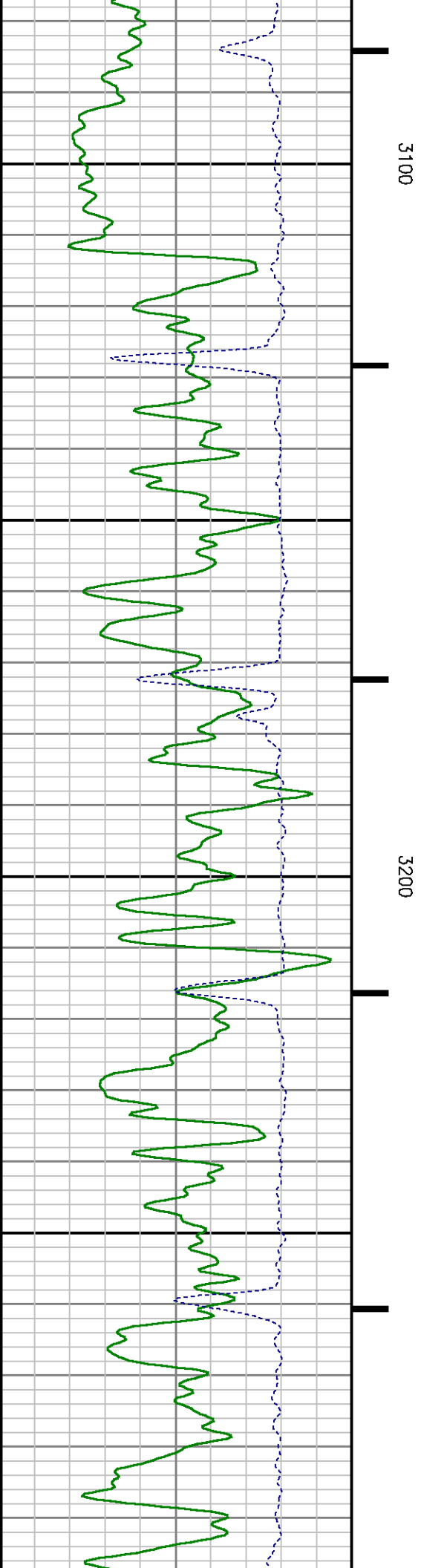
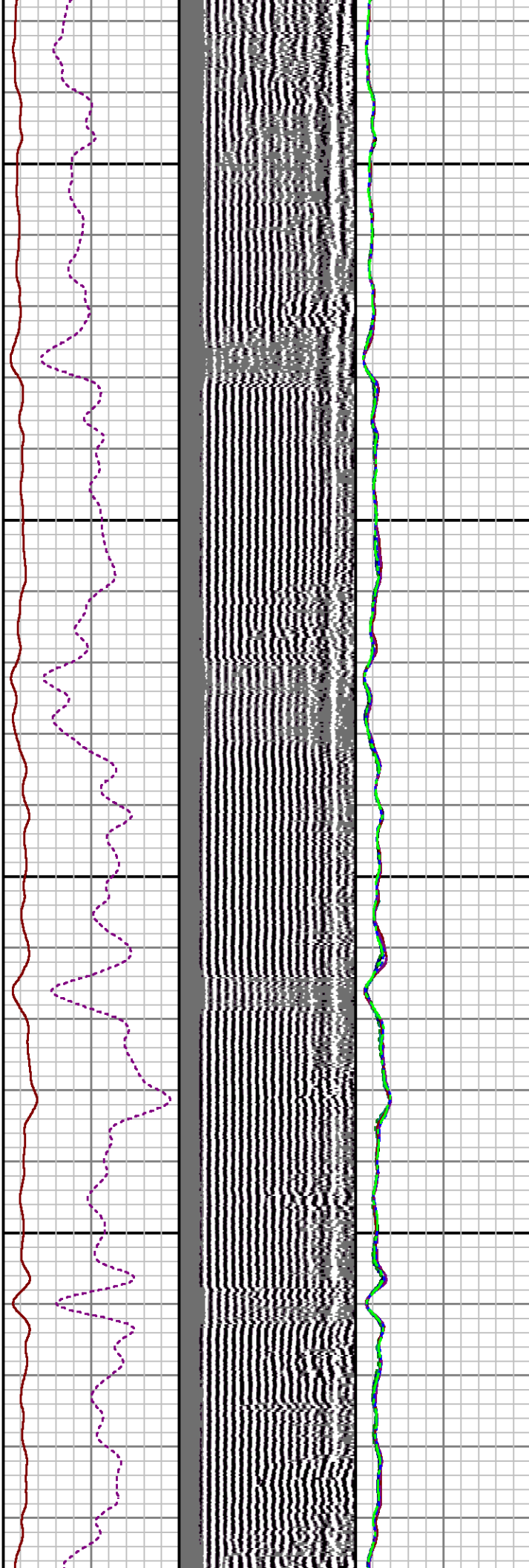
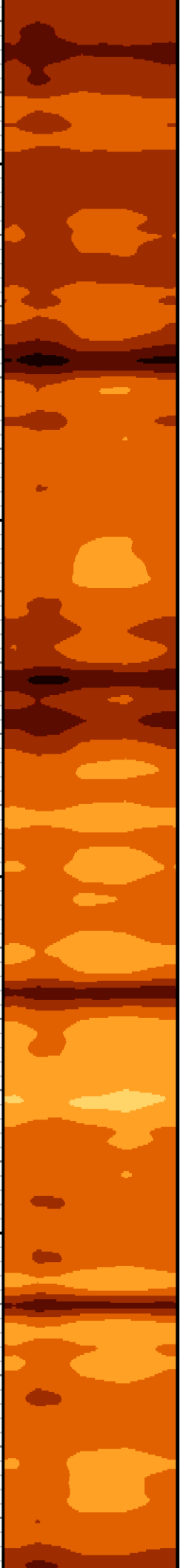


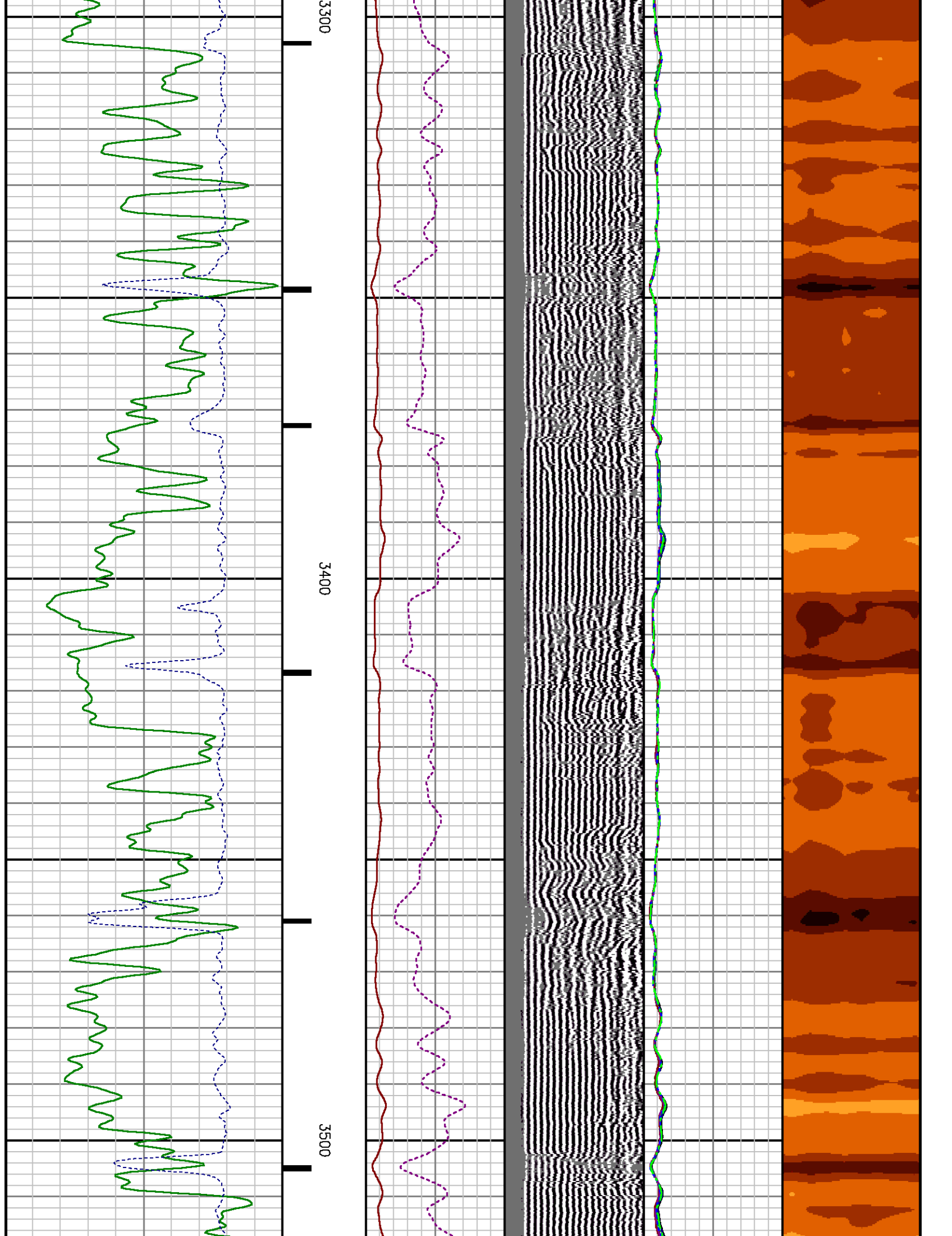


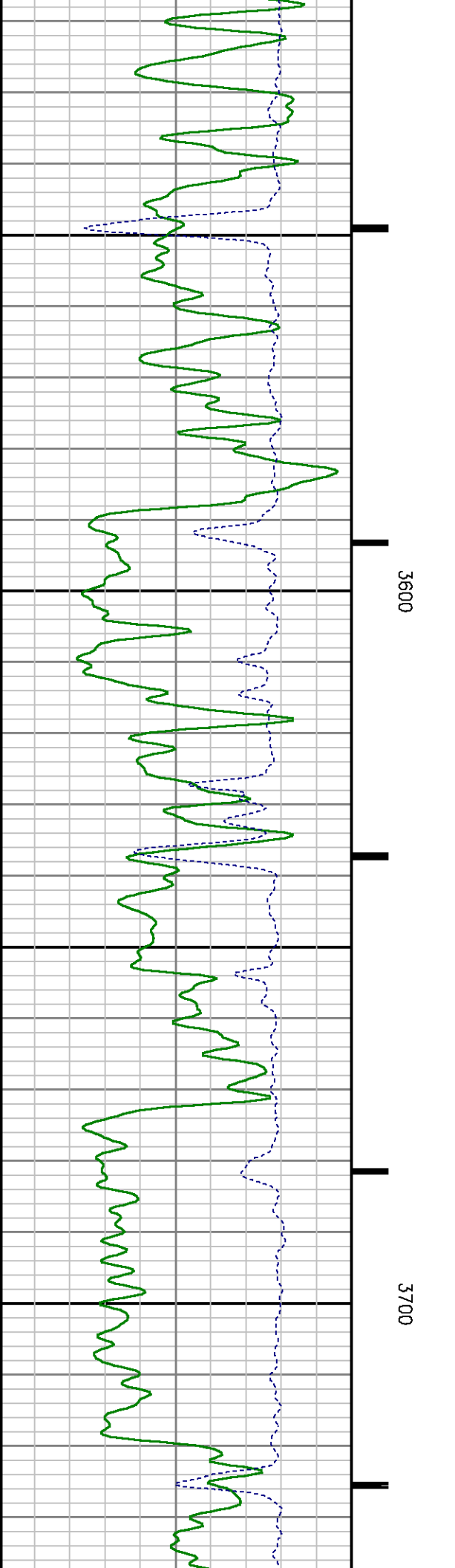
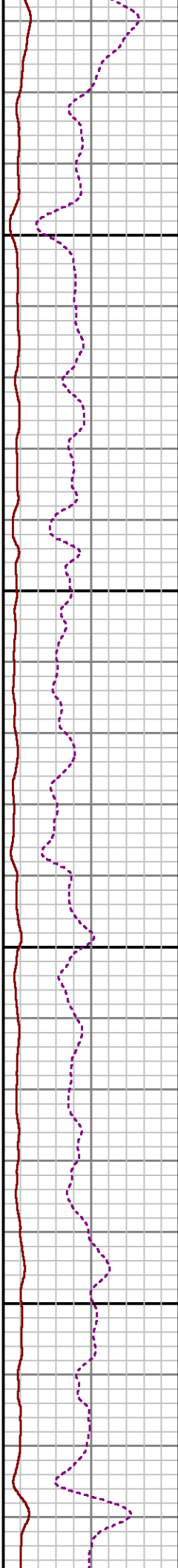
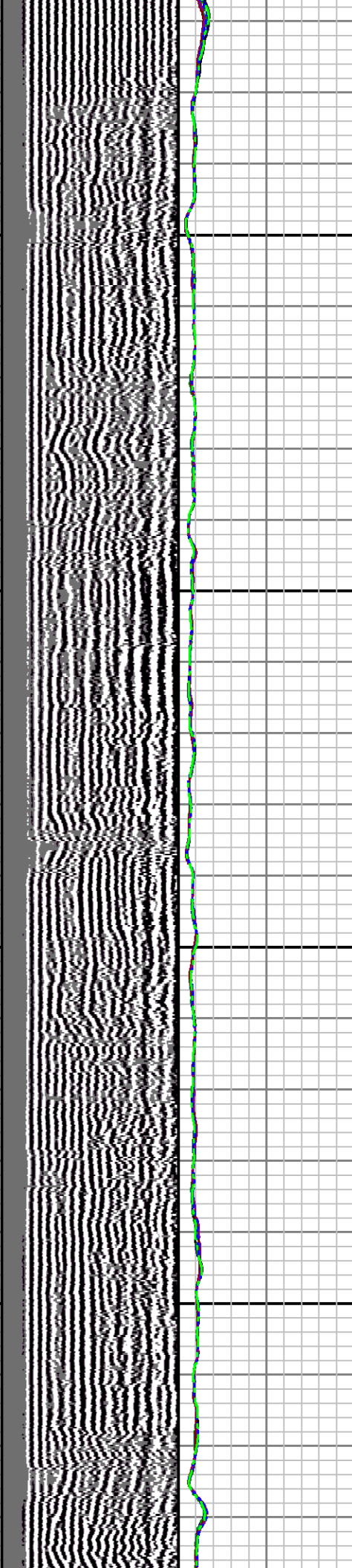
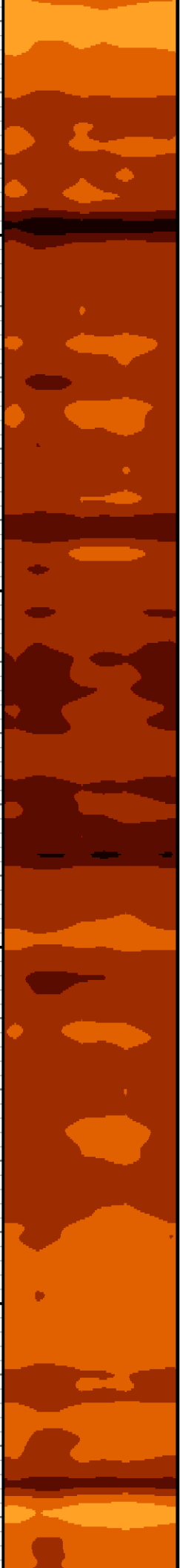


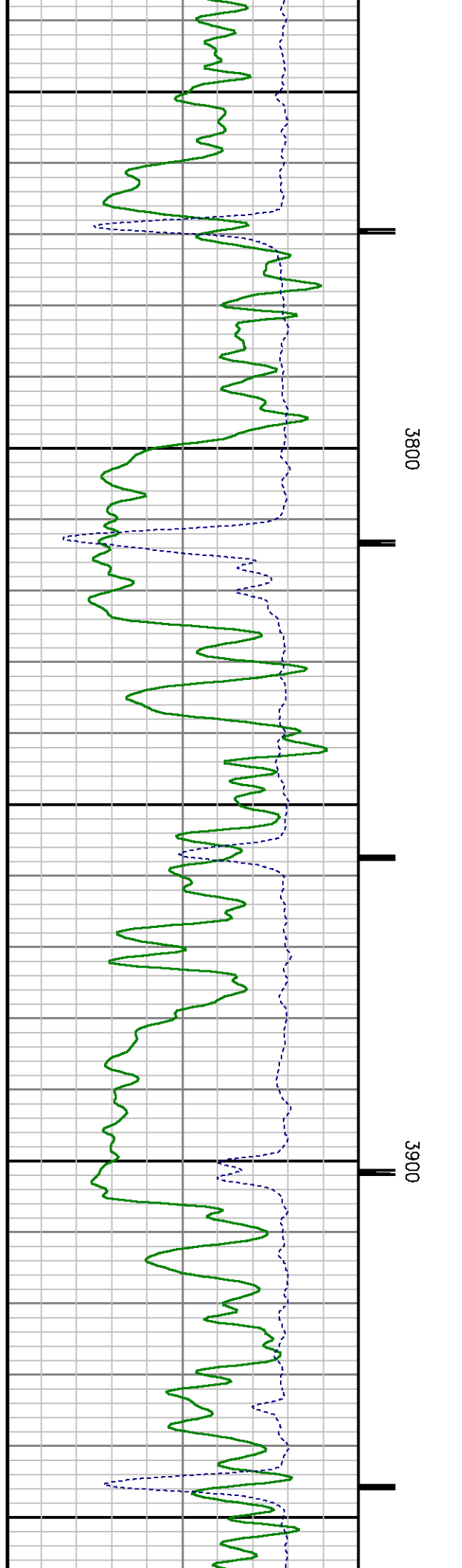
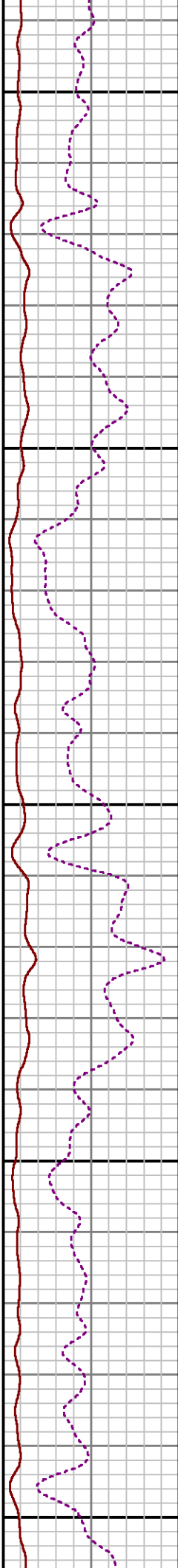
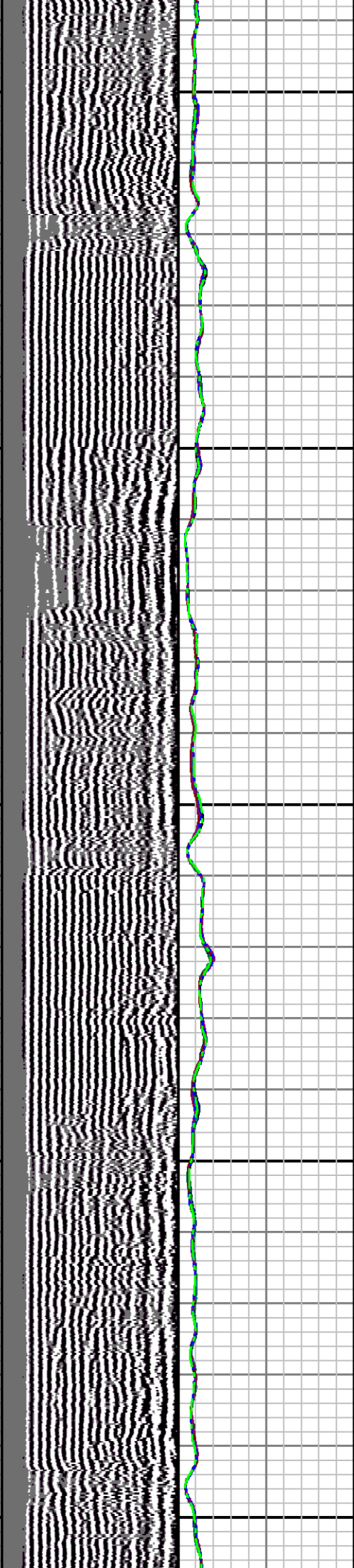


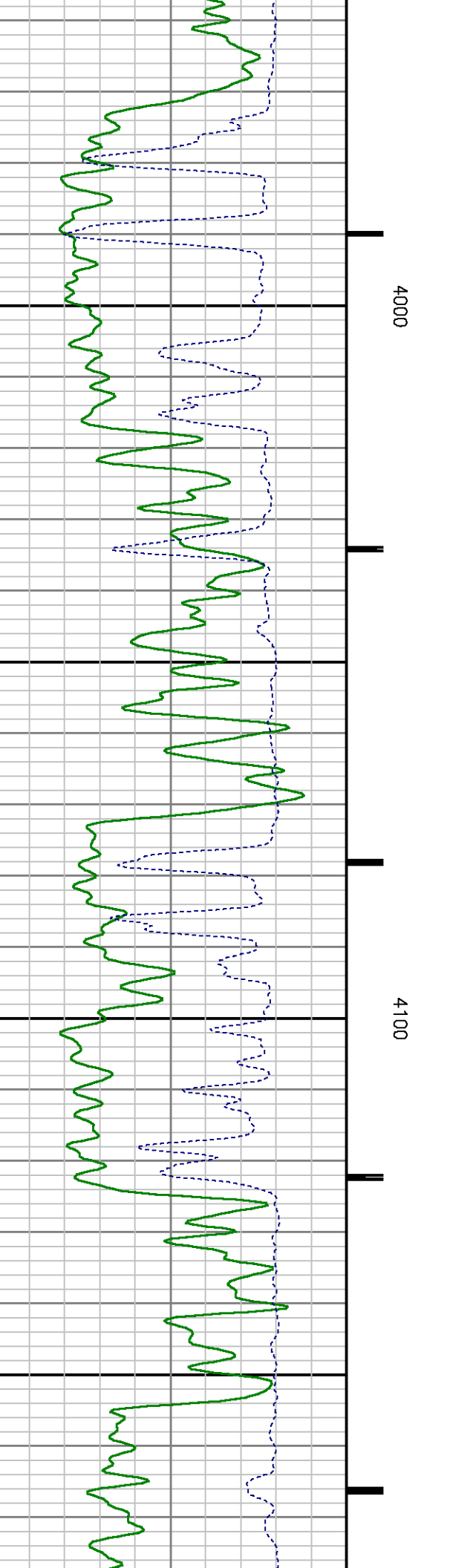
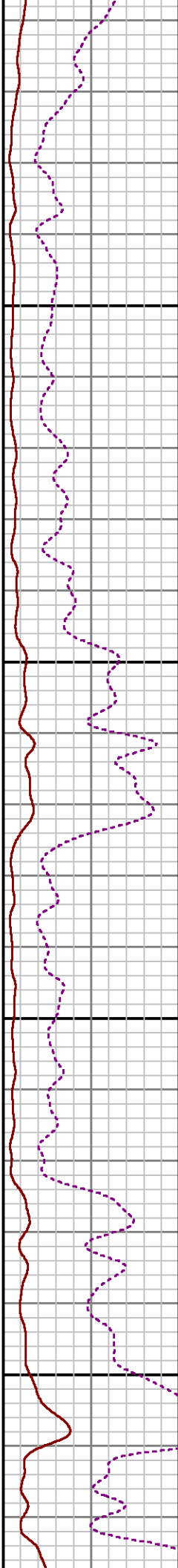
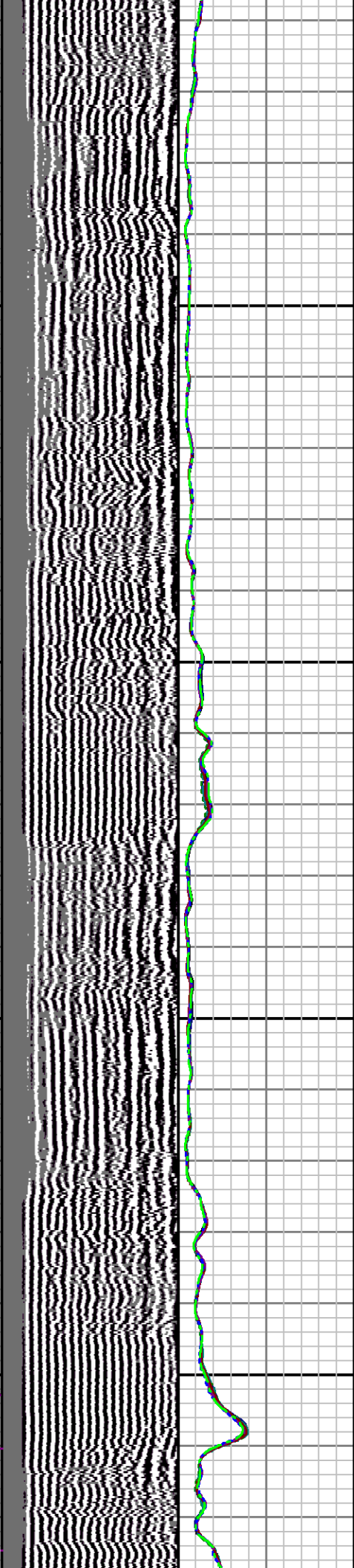


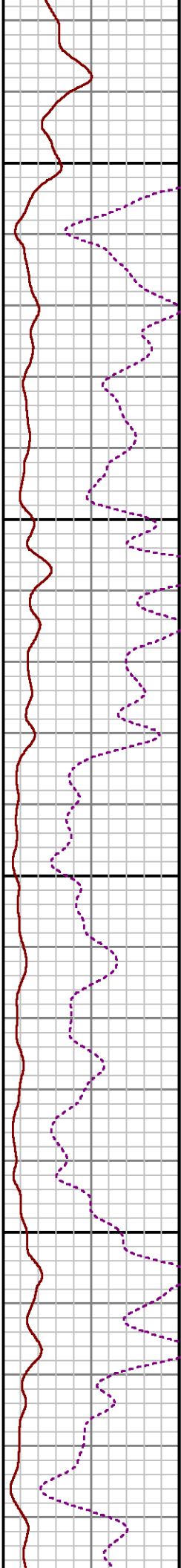
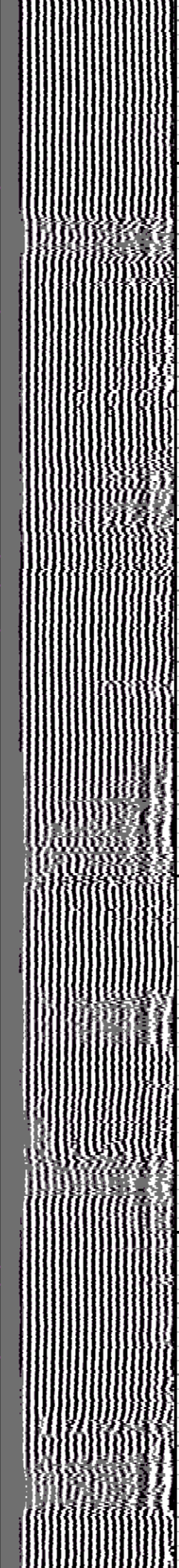
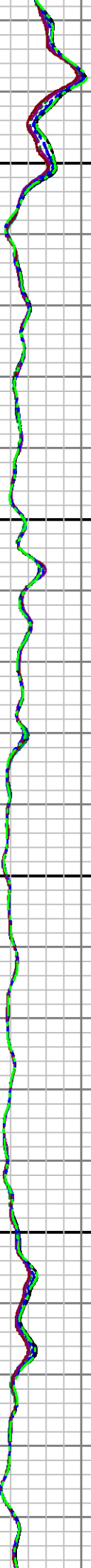
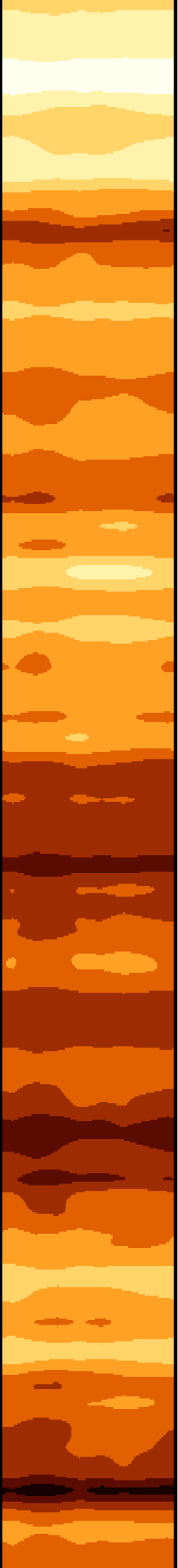






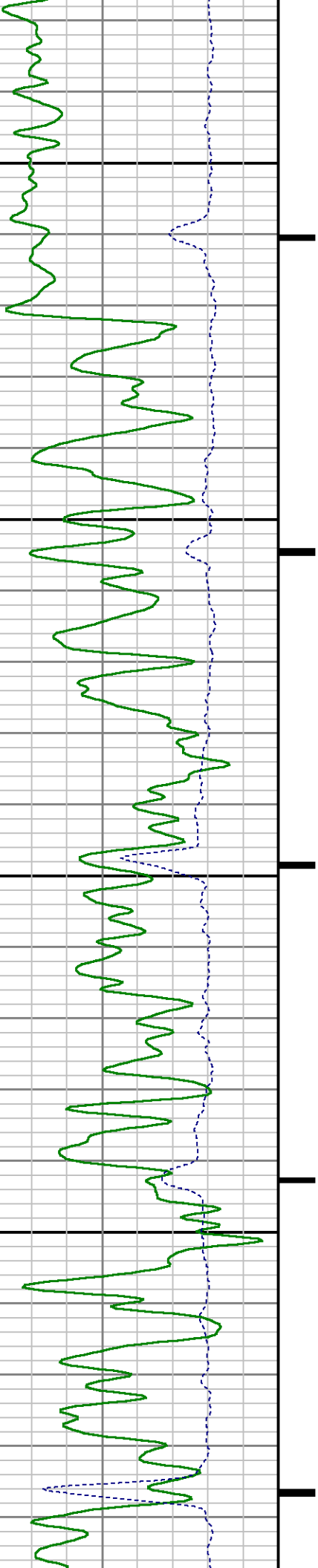


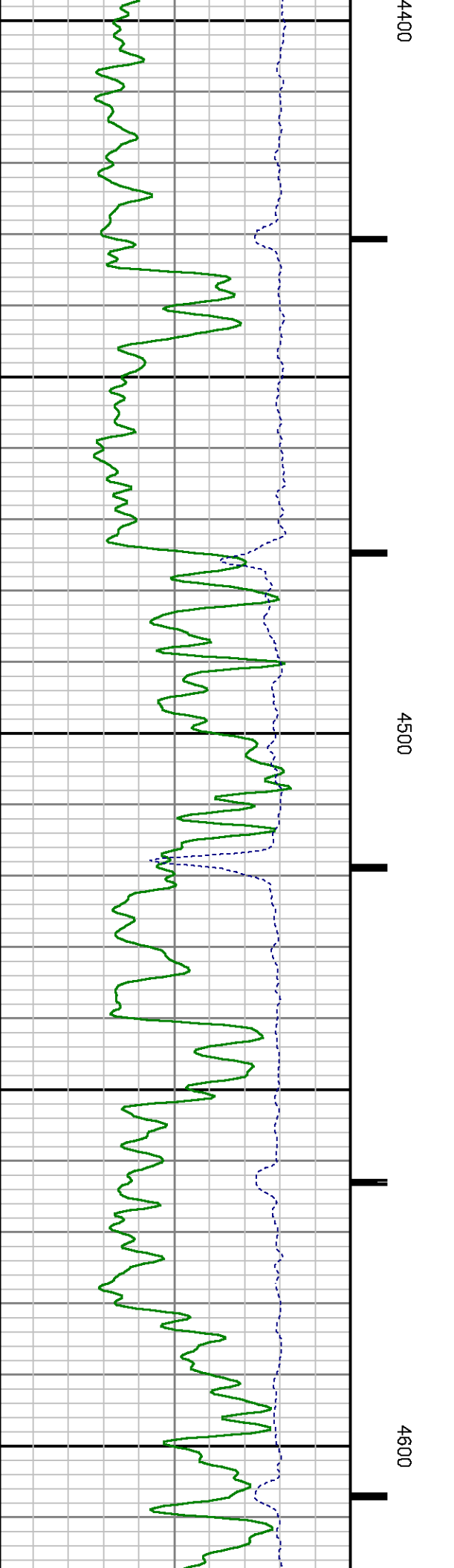
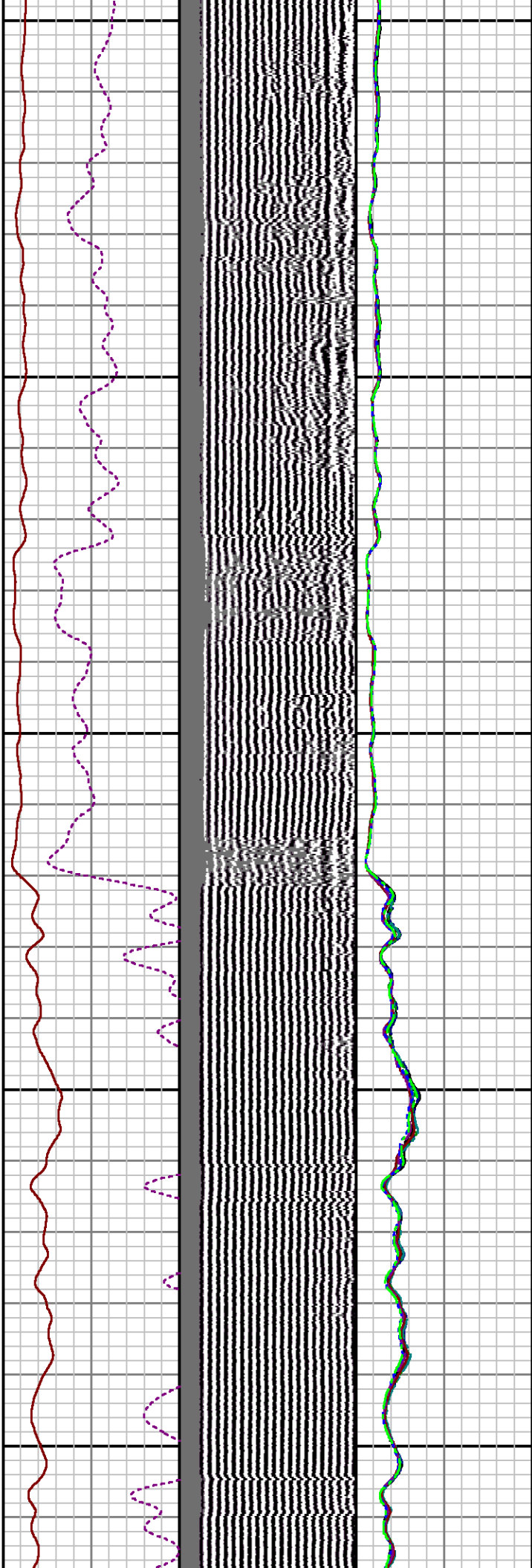


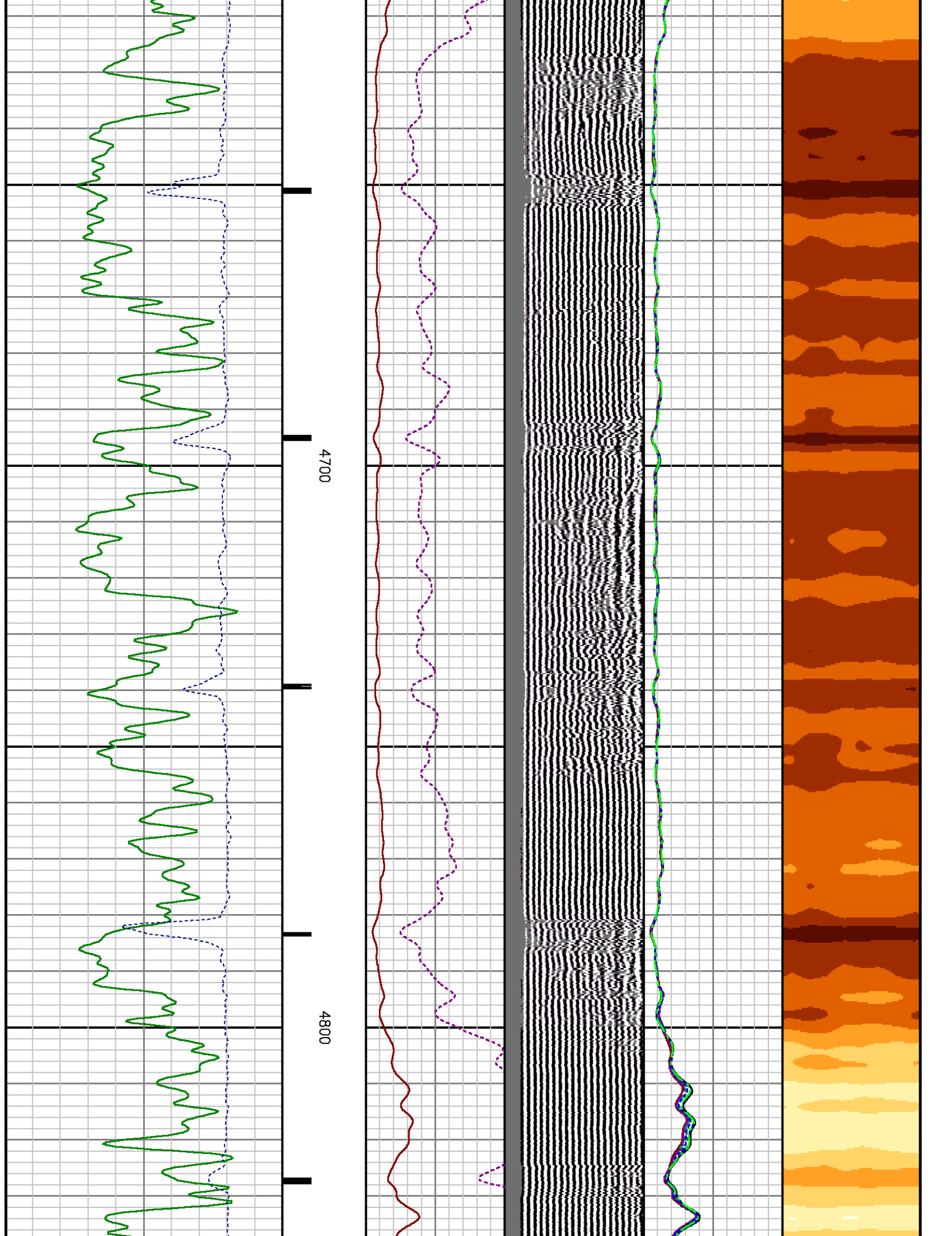


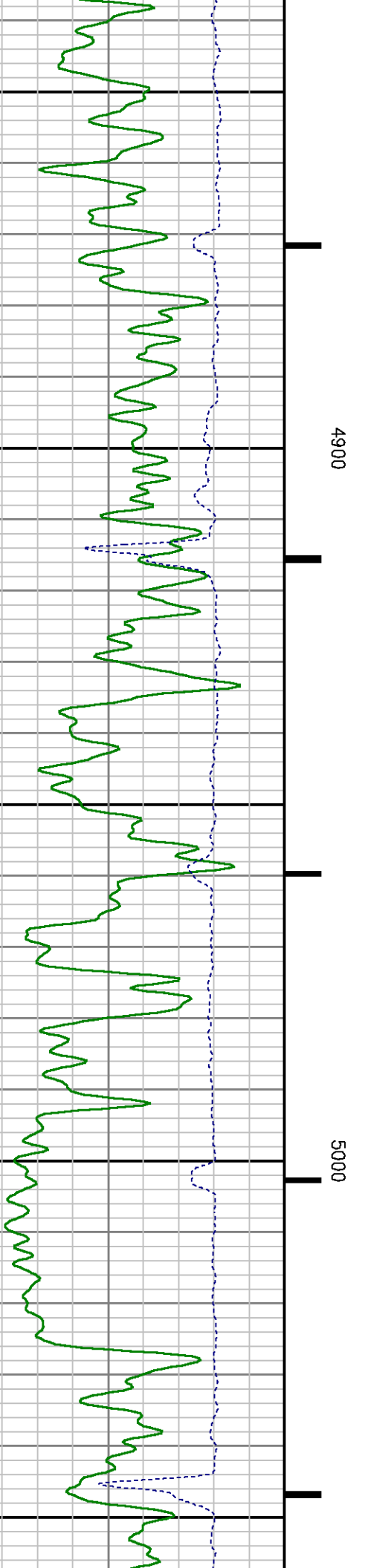
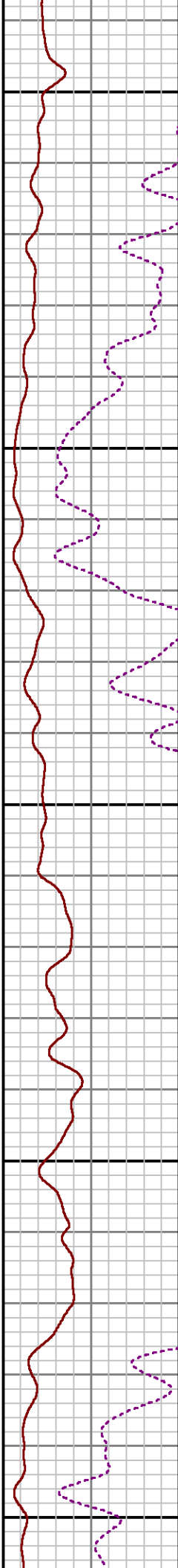
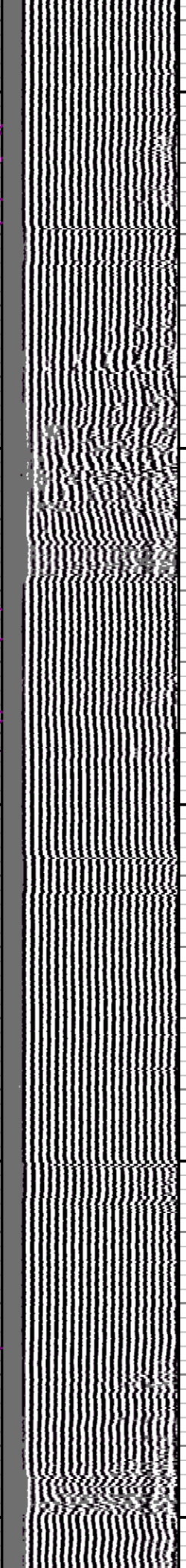
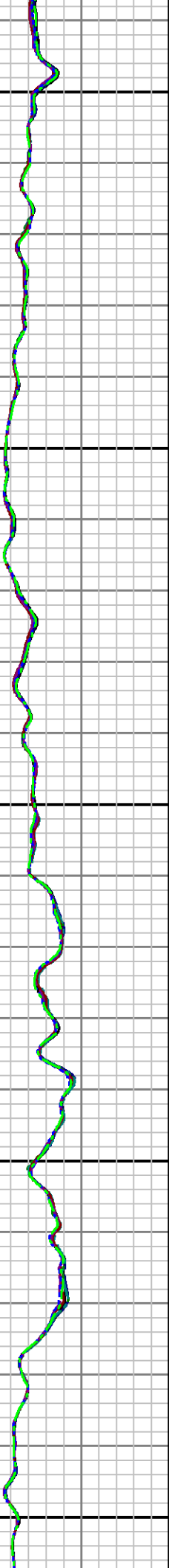
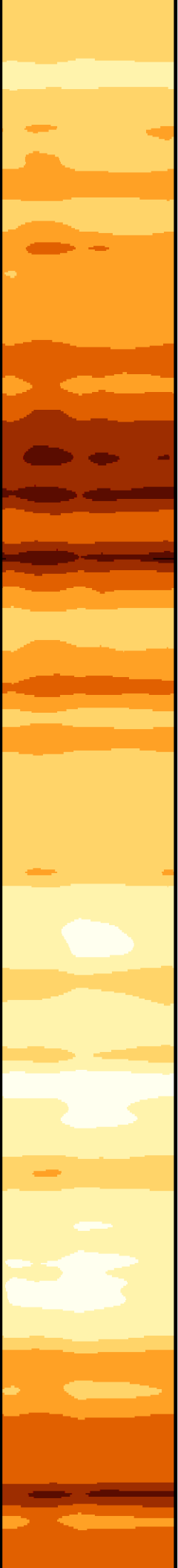
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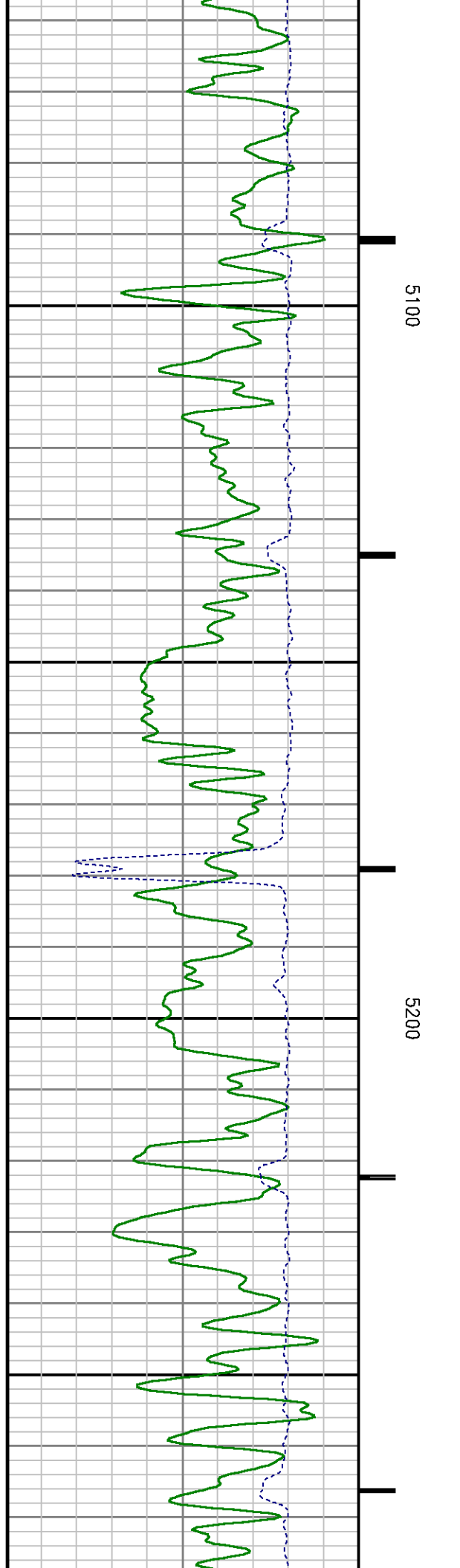
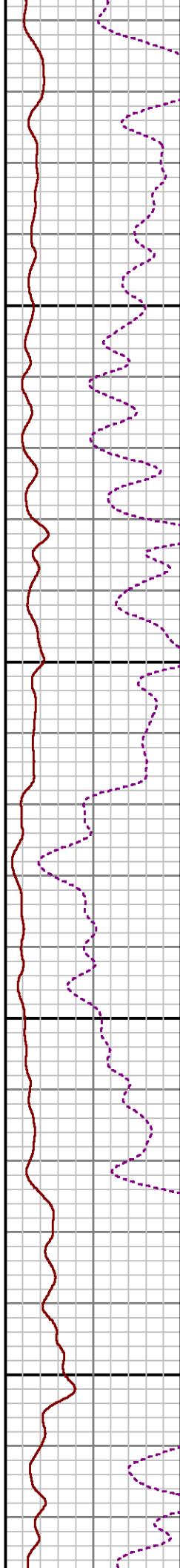
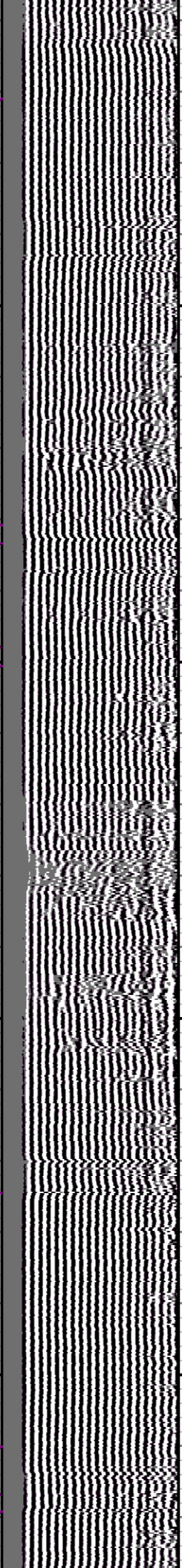
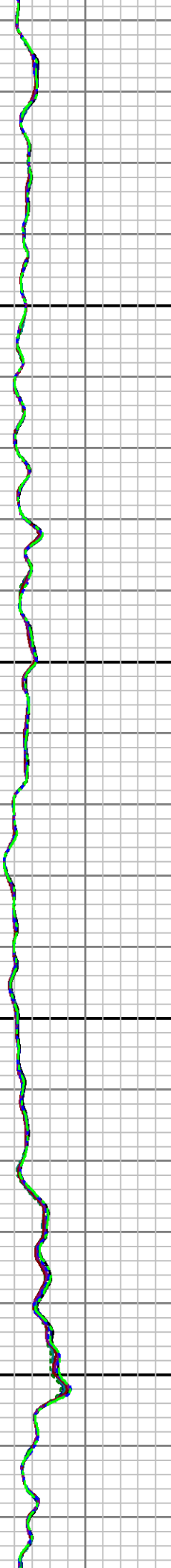
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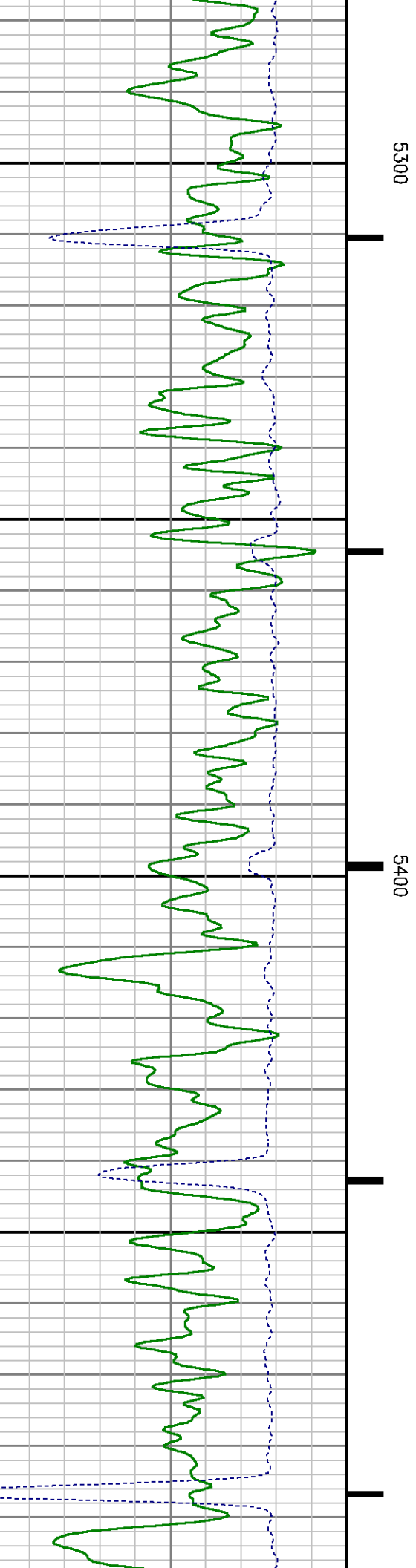
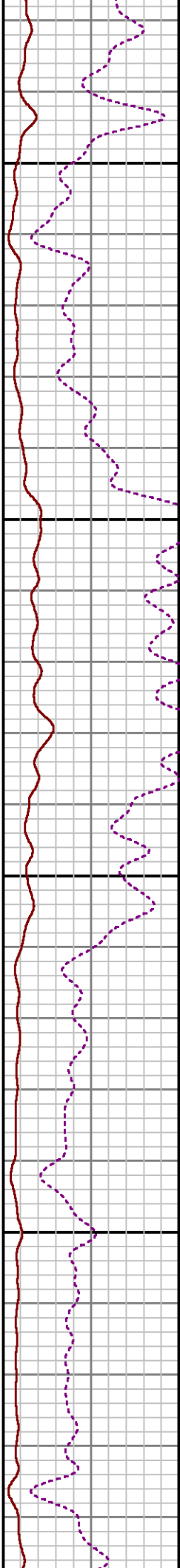
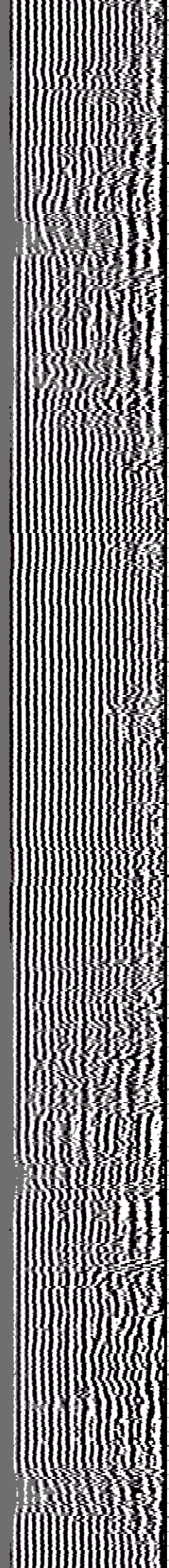
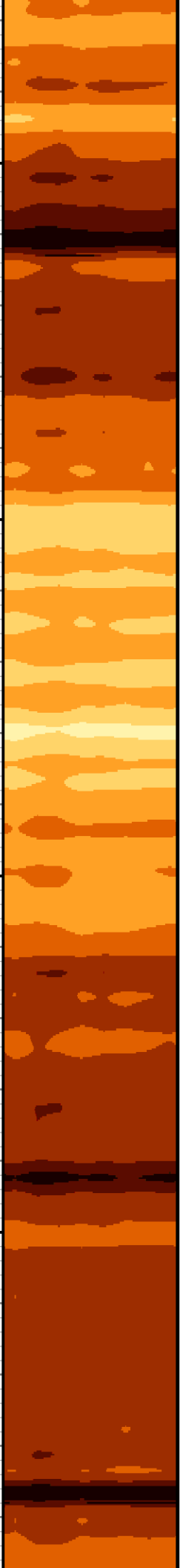


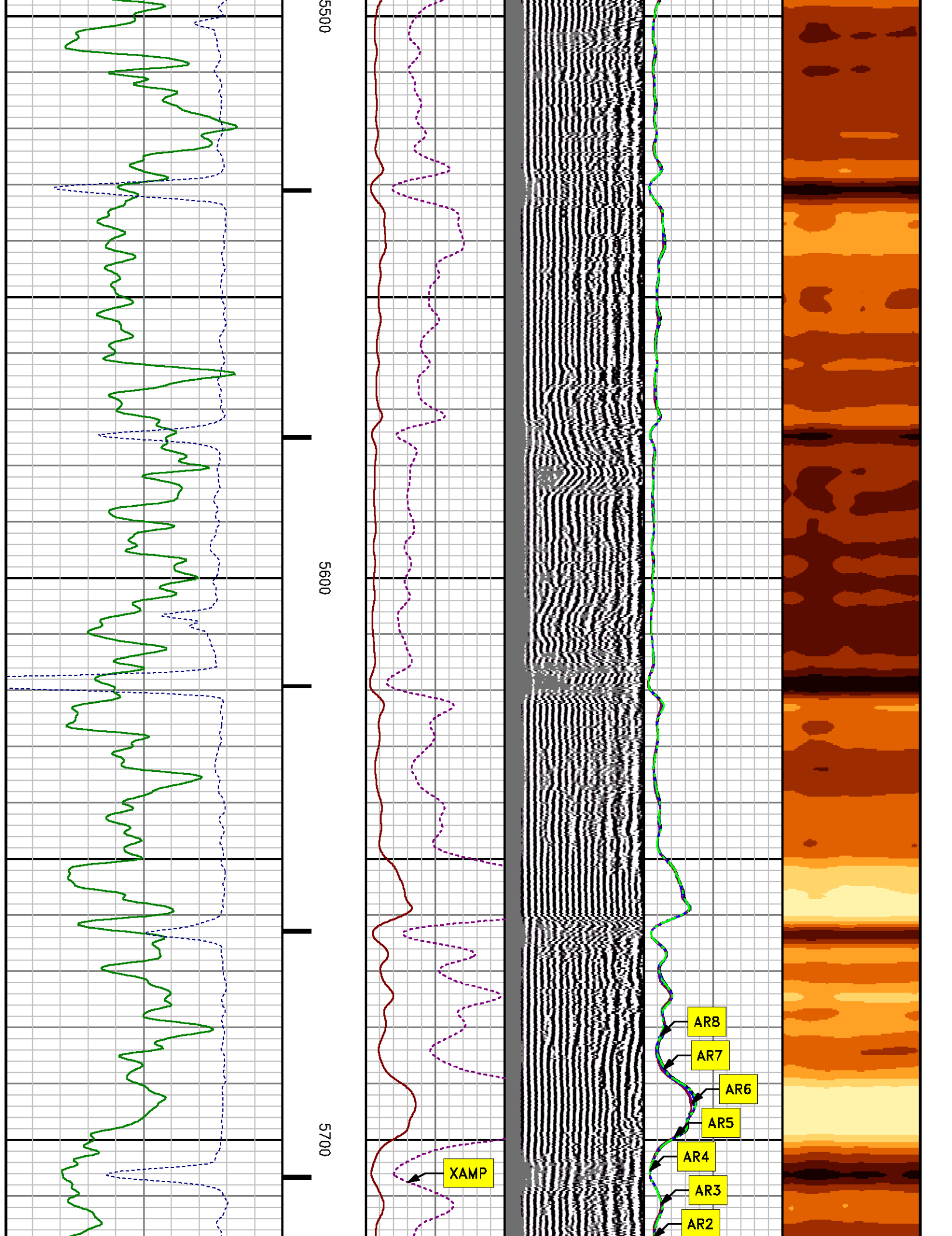












DEPTH OFFSETS

(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

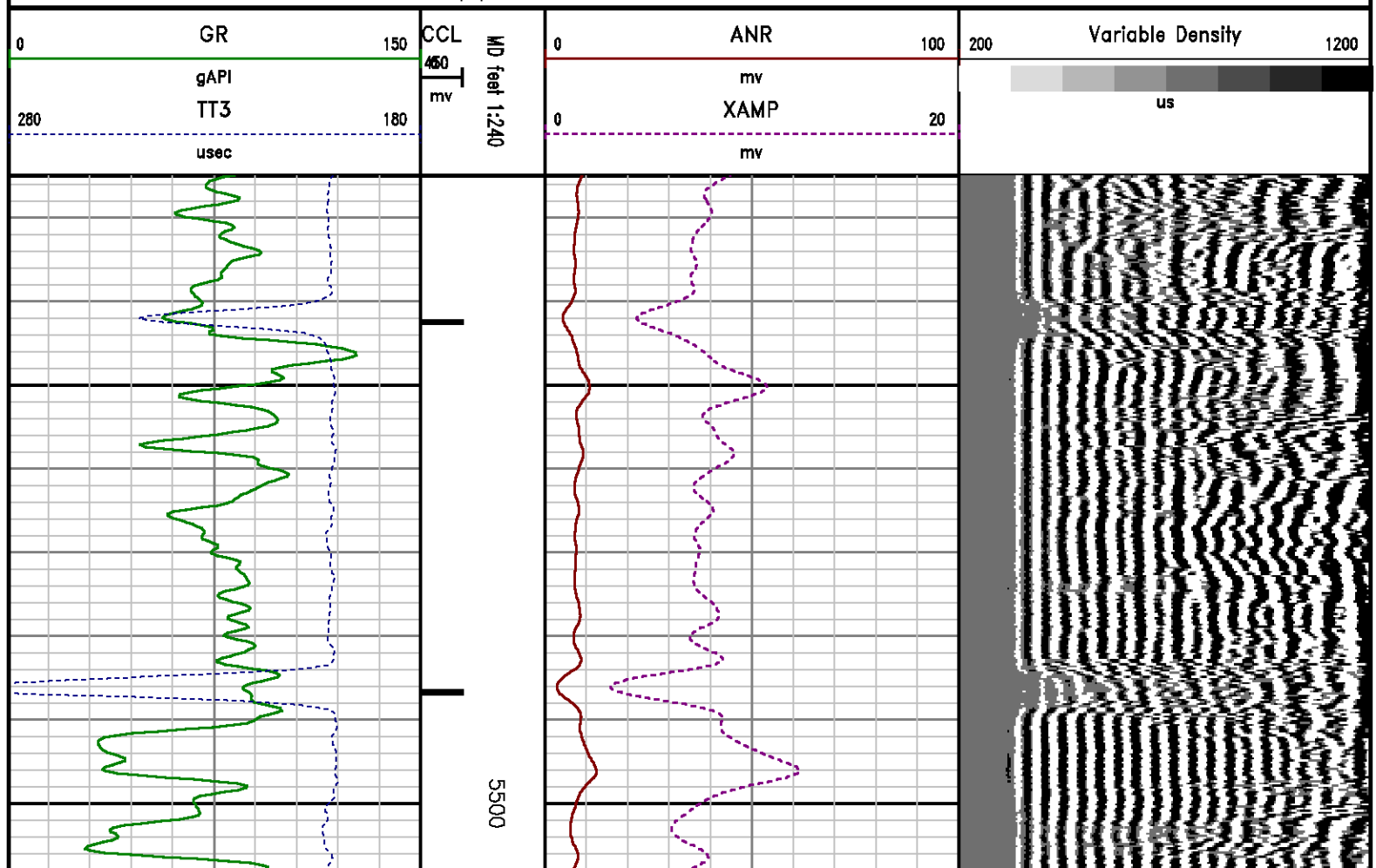
Well : BOSELY SG 411-27

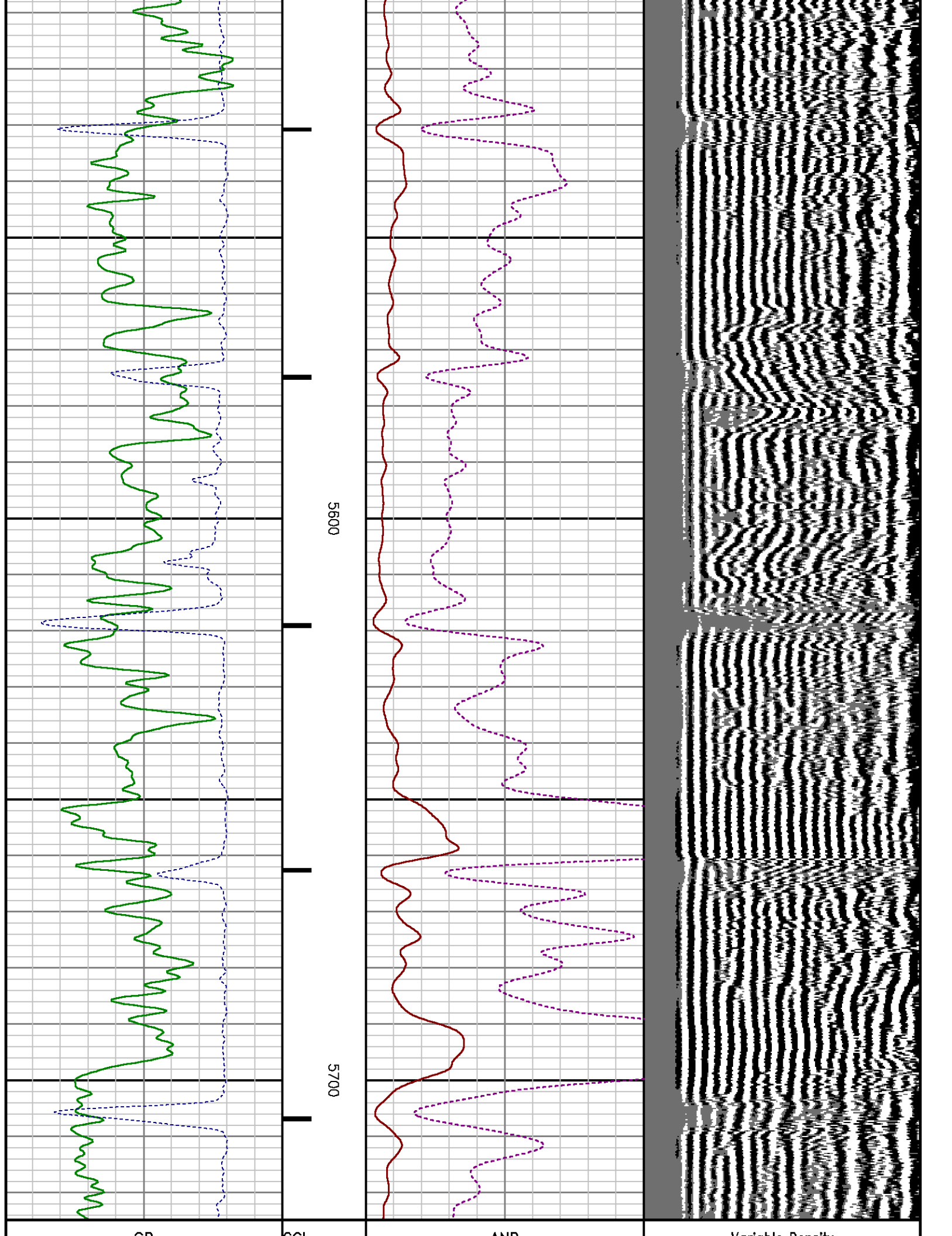
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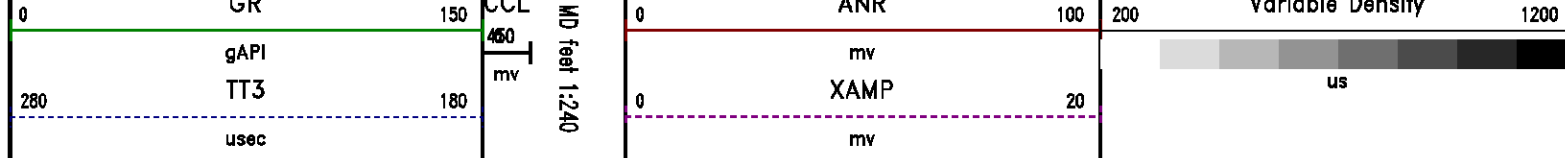
Mode : PlotMgr 5.4.504

Interval : 5425.00 - 5725.00 feet UP

Created : 2/3/2014 7:22:17 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496F1_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Feb 01 17:53:28 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: F1

Tool Delay [usec] -54.00 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	218	216	30	166	25	-0.248	100.00	0.17
3 Ft. Receiver	218	216	30	166	25	2.268	100.00	0.17
5 Ft. Receiver	327	324	30	232	25	0.315	150.00	0.22
Radial #1	217	216	30	149	25	-0.067	100.00	0.17
Radial #2	217	216	30	149	25	-0.370	100.00	0.17
Radial #3	218	216	30	149	25	-0.327	100.00	0.17
Radial #4	218	216	30	149	25	-0.309	100.00	0.17
Radial #5	217	216	30	149	25	-0.120	100.00	0.17
Radial #6	217	216	30	149	25	-0.185	100.00	0.17
Radial #7	215	216	30	149	25	-0.346	100.00	0.17
Radial #8	217	216	30	149	25	-0.269	100.00	0.16

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496F1 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Feb 01 17:55:36 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: F1

Tool Delay [usec] -54.00 Casing OD [in] 4.50 Casing Wt [lbm/ft] 11.60 Casing ID [in] 4.00

RECEIVER Zero Gate Start Zero Gate Width Zero Amp. Full Amp. Wellsite Factor Amp. Ref

	Start [u]sec	Width [u]sec	[mV]	[mV]	[mV]
CAL Pulse	166	25	0.020	0.000	1.00
3 Ft. Receiver	195	25	1.940		100.000
5 Ft. Receiver	305	25	2.654		
Radial #1	195	25	1.354		
Radial #2	195	25	1.448		
Radial #3	195	25	1.469		
Radial #4	195	25	1.546		
Radial #5	195	25	1.761		
Radial #6	195	25	1.848		
Radial #7	195	25	1.489		
Radial #8	195	25	1.507		

GAMMA RAY

Calibration File: C:\case\calver\GR\121J2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 21 14:45:39 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	71.78	314.67	0.762	54.67	239.67	185.00

Verification File: C:\case\calver\GR\121J2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jan 21 14:46:51 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	74.22	316.93	0.762	56.53	241.40	184.86

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

Series 1426XA
Mnemonic PROB



24.23'

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

XMIT	18.05'
NEAR RCVR	14.97'
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
Well
Field
County

WPX ENERGY
BOSELY SG 411-27
GRAND VALLEY
GARFIELD State CO

Location

SHL: 600' FNL & 1989' FWL
BHL: 759' FNL & 257' FWL

SEC 27 TWP 7S RGE 96

Elevations

KB 5283 ft
DF
GL 5258 ft

File No:

CH082221

API No:

05045221280000

27 7S 96W

SG 21-27 PAD

AZTEC 1000