



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH091481	Company Well AP 523-17-695	WPX ENERGY
API No: 05045213790000	Field County GARFIELD	PARACHUTE STATE CO
17 6S 95W AP 21-20-69S PAD NABORS 673	Location SHL: 23' FNL & 2497' FWL (20 6S 95W) BHL: 1571' FSL & 2220' FWL (17 6S 95W) SEC 17 TWP 6S RGE 95W	Other Services RPM
Permanent Datum Log Measured From Drill Measured From	GL KB KB Elevation 26 ft Above P. D.	Elevations KB 6935 ft DF GL 6909 ft

Date	12/OCT/14	
Run	ONE	
Service Order	US091481	
Depth Driller	9718 ft	
Depth Logger	9669 ft	
Bottom Logged Interval	9669 ft	
Top Logged Interval	26 ft	
Time Started	6:00	
Time Finished	9:30	
Operator Rig Time	3.5 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	73 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	264 degF	
Reference Log	BAKER HUGHES OPEN HOLE	
Reference Log Date	13/SEP/14	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEWELL	
Witnessed By	ORAN JACOBS	

- 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	2586 ft
8.75 in	2586 ft	9759 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	2586 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	9759 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 9/13/2014 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 8.5 feet.

Logged with zero PSI at wellhead.

BHT = 264°F

SJ = 6328'-6347'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	2459XA	10218503	CENTRALIZED

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	28.440	9657.000
RAL	Amp Gate Start Near	195.000	usec	28.440	9657.000
RAL	Amp Gate Start Radial	195.000	usec	28.440	9657.000
RAL	Amp Gate Width Far	25.000	usec	28.440	9657.000
RAL	Amp Gate Width Near	25.000	usec	28.440	9657.000
RAL	Amp Gate Width Radial	25.000	usec	28.440	9657.000
RAL	casing od	4.500	inches	28.440	9657.000
RAL	casing wt	11.600	lbm/ft	28.440	9657.000
RAL	FB Start Far	291.900	usec	28.440	9657.000
RAL	FB Start Near	175.391	usec	28.440	9657.000
RAL	FB Start Radial	175.391	usec	28.440	9657.000
RAL	FB Thresh Far	10.000	mv	28.440	9657.000
RAL	FB Thresh Near	4.000	mv	28.440	9657.000
RAL	FB Thresh Radial	4.000	mv	28.440	9657.000
RAL	Fluid Travel Time	200.000	usec/ft	28.440	9657.378

DEPTH OFFSETS

(for Acquired Curves)

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

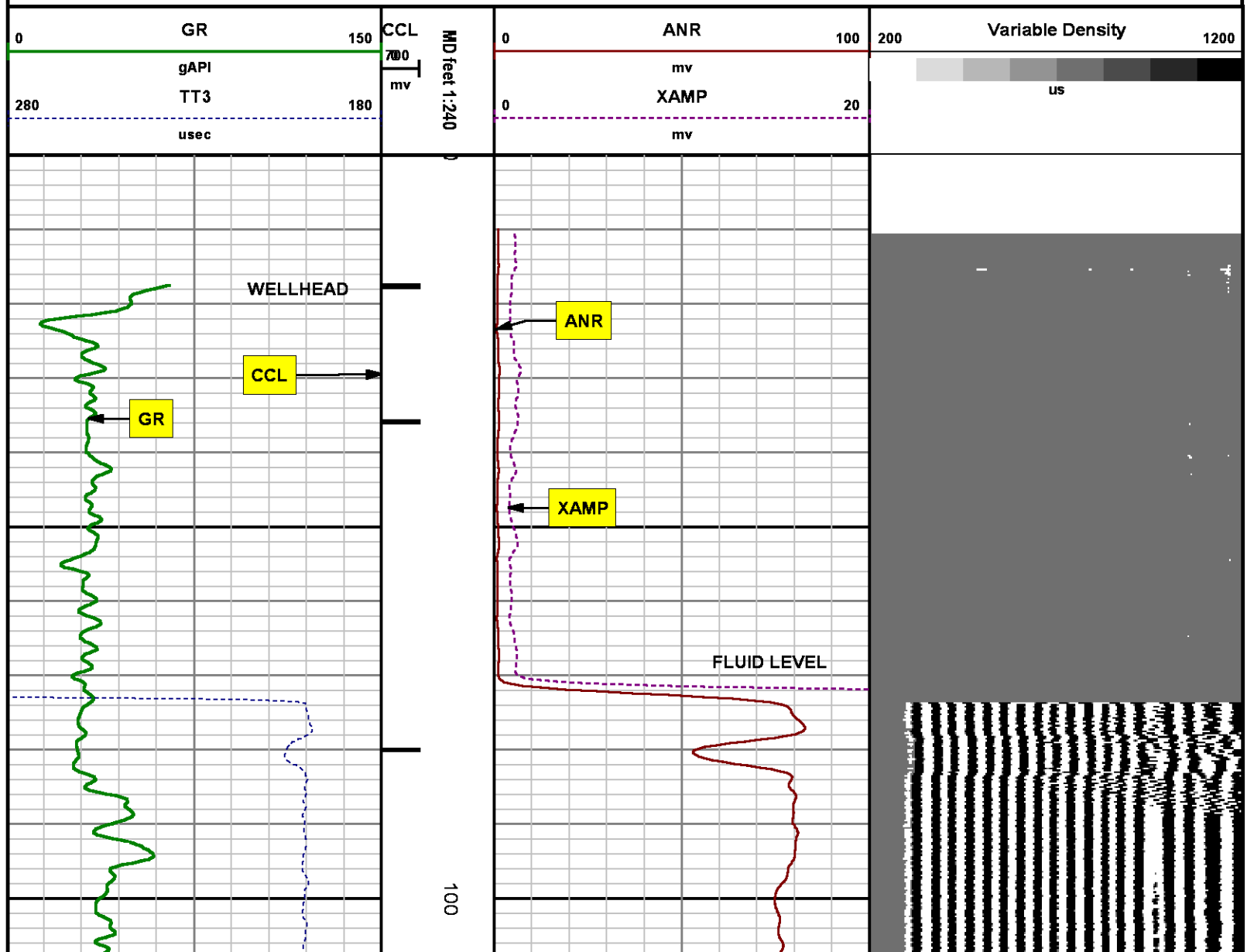
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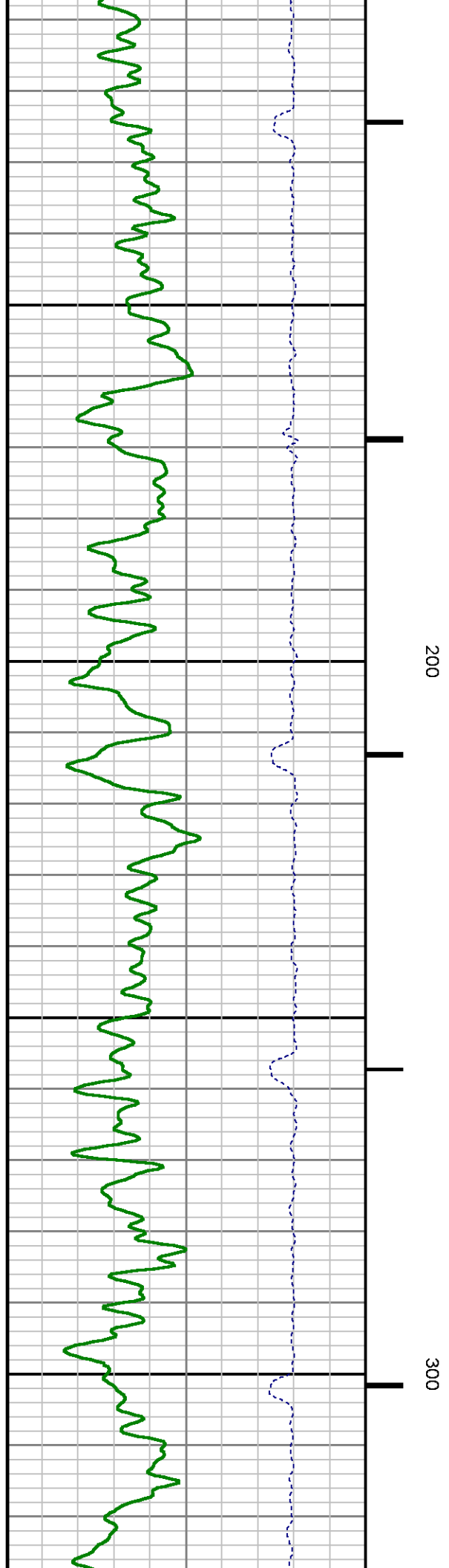
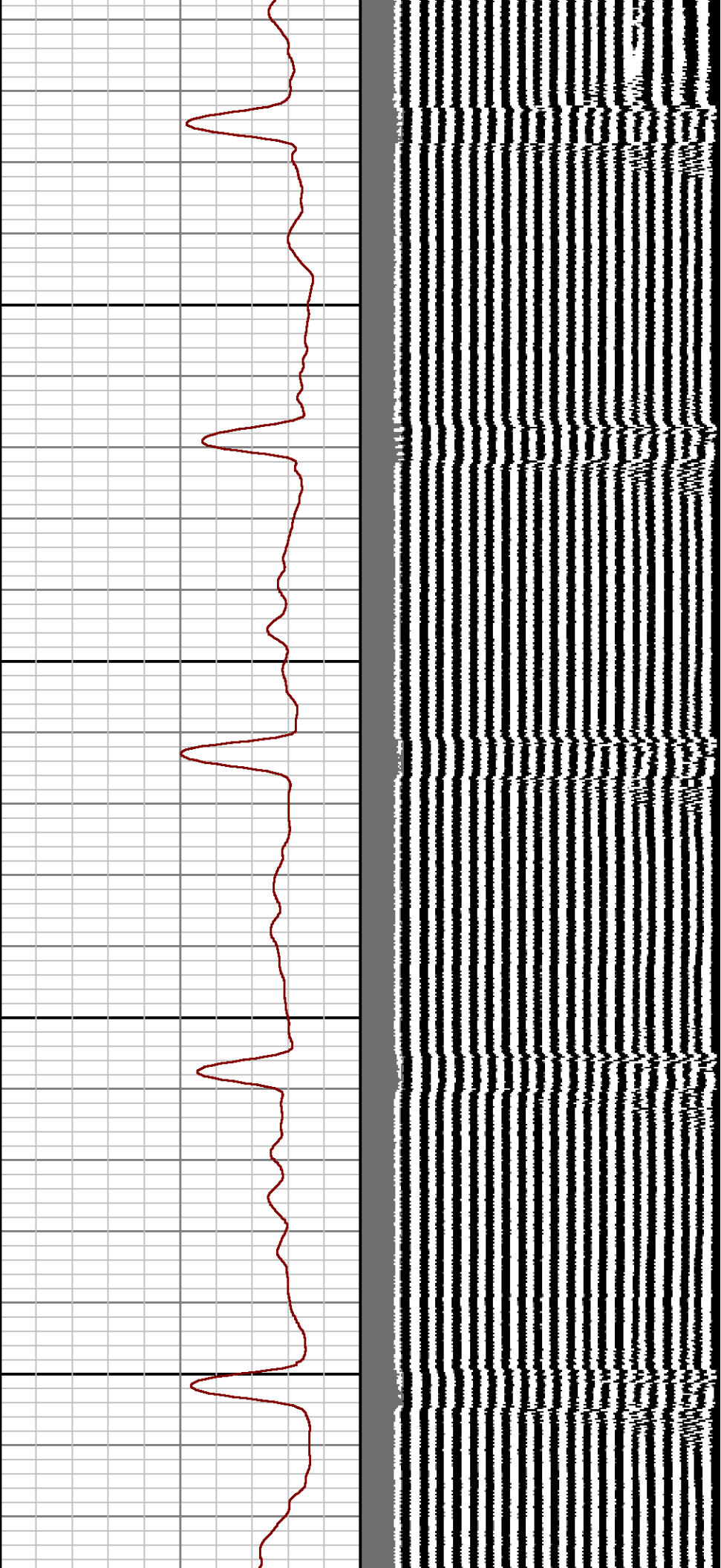
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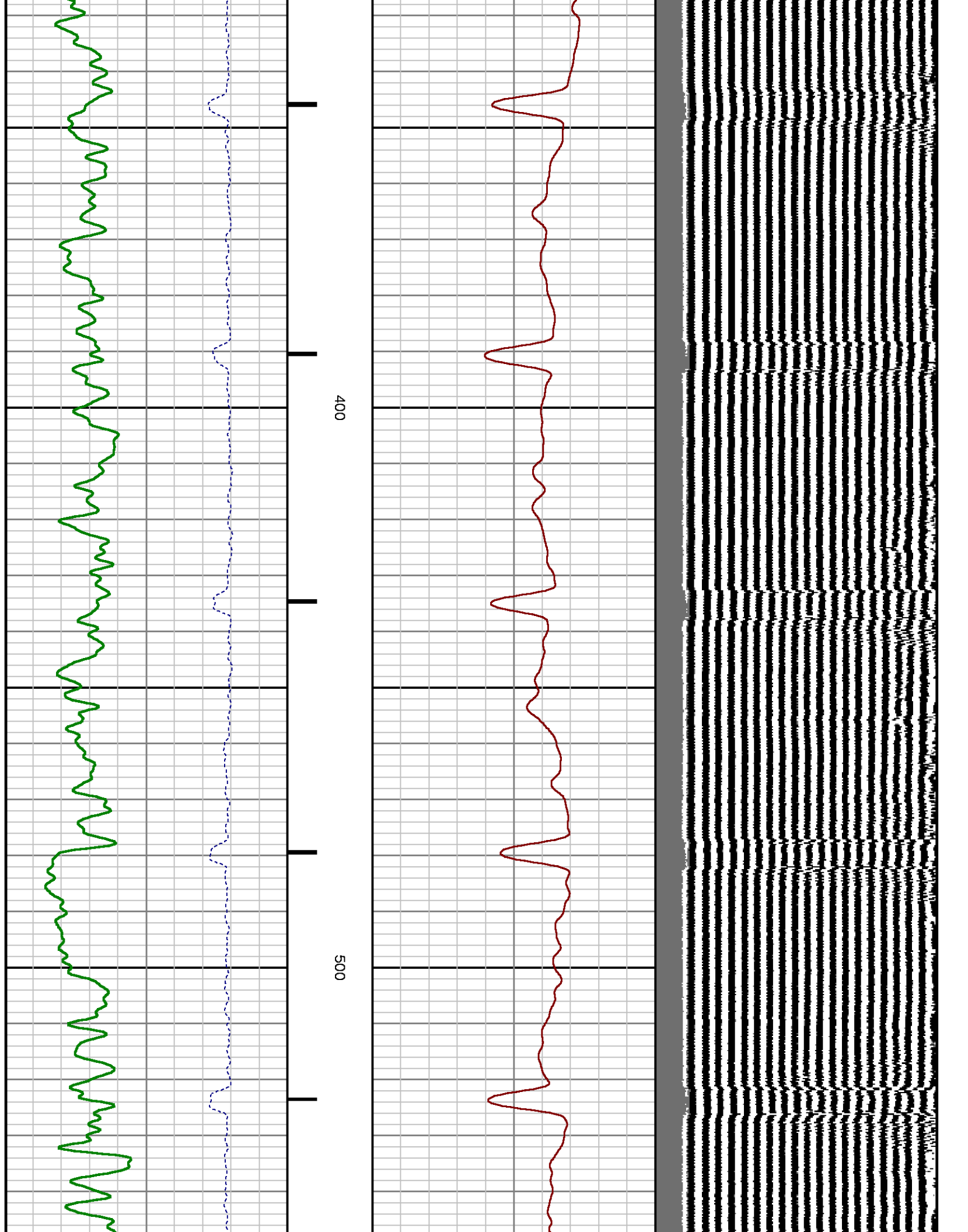
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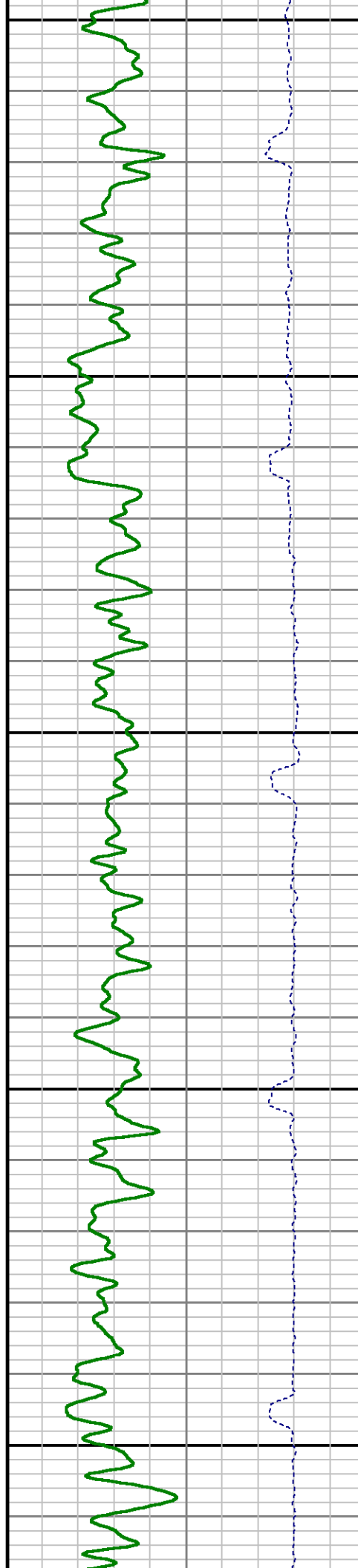
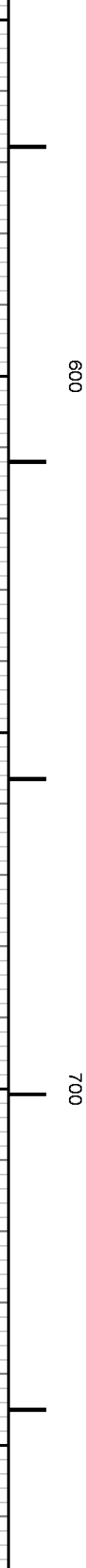
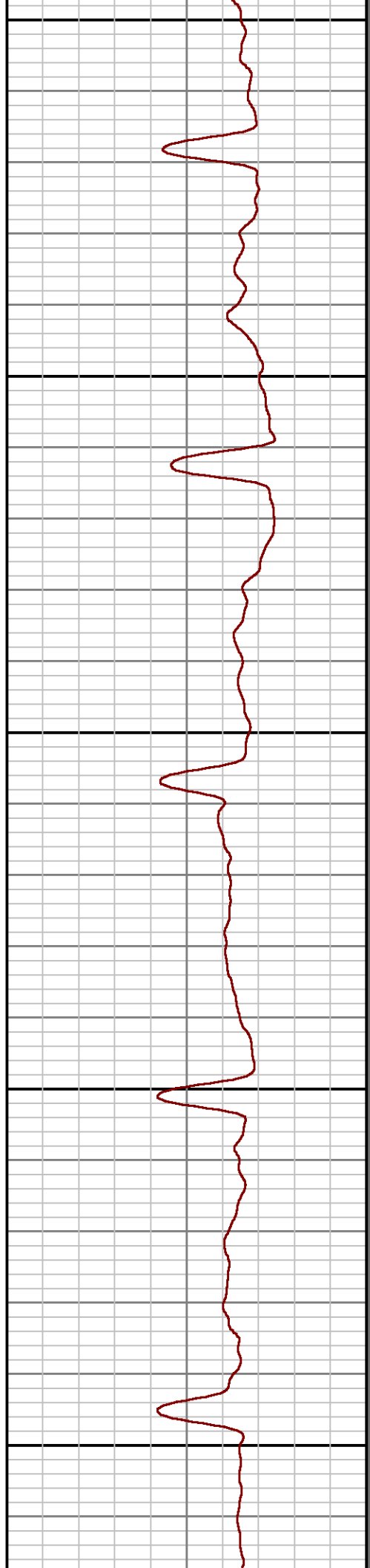
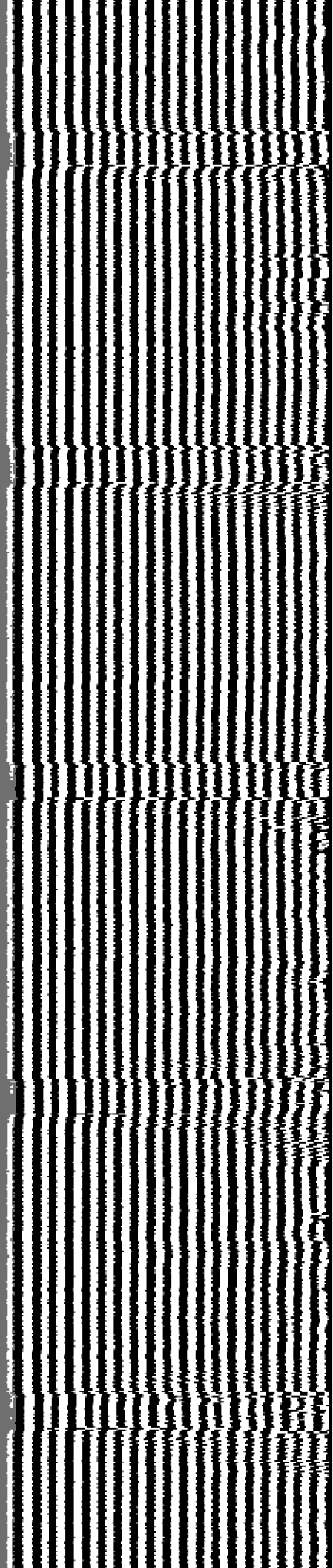
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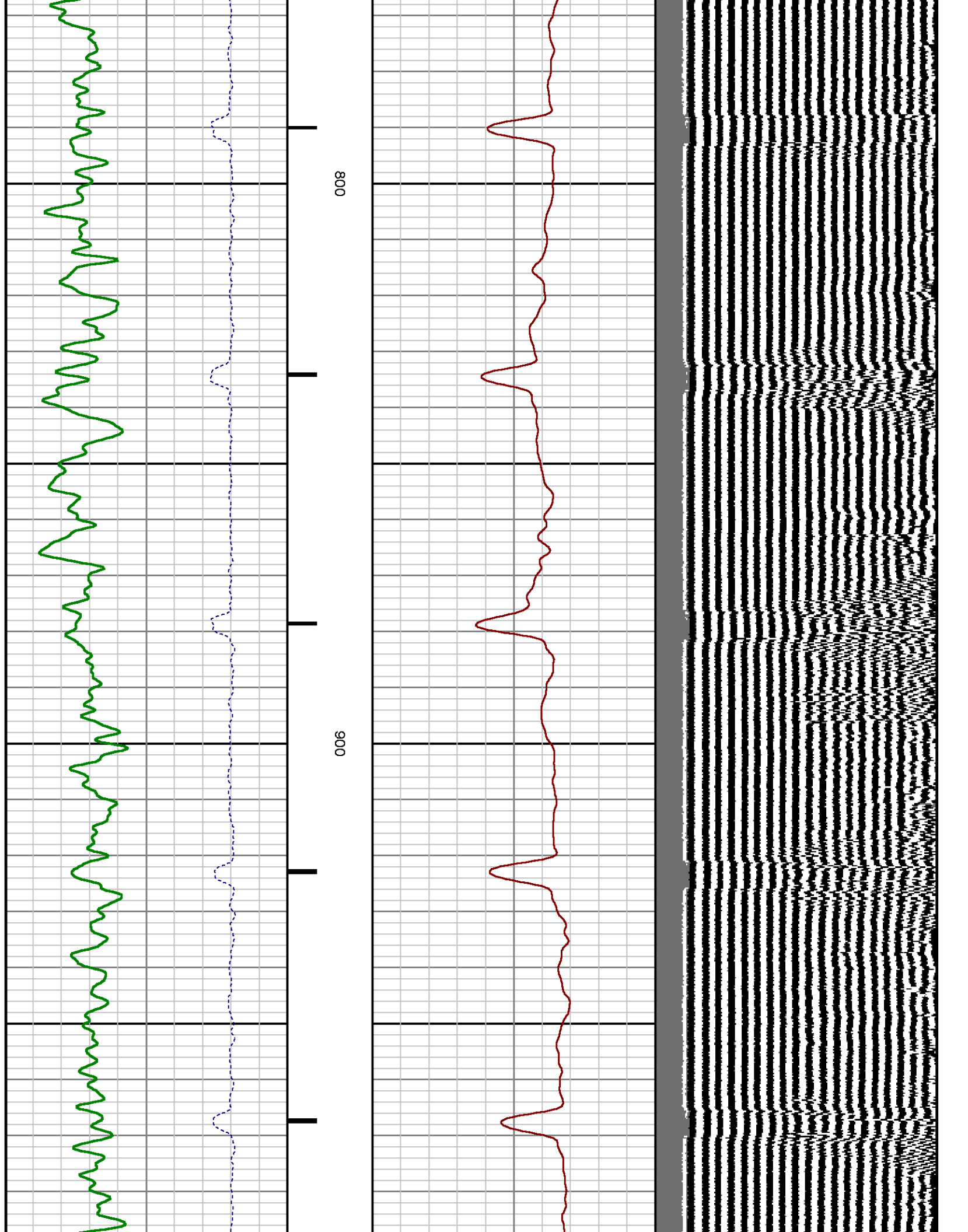
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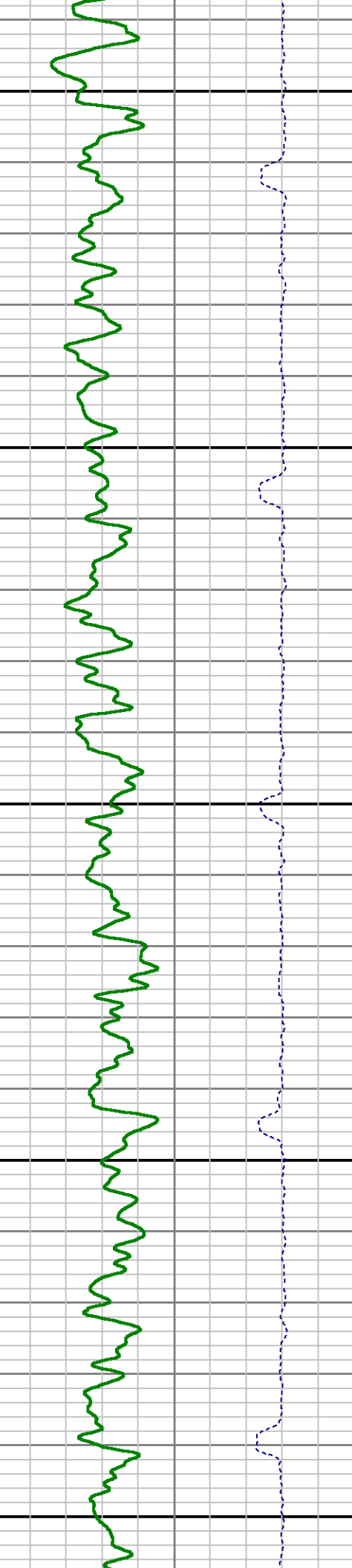
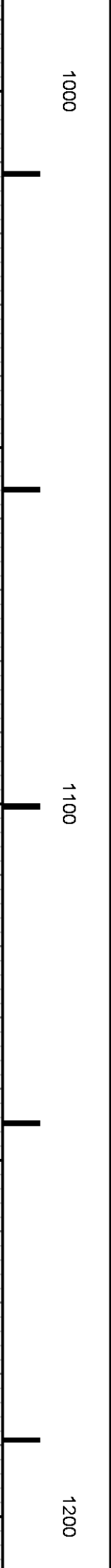
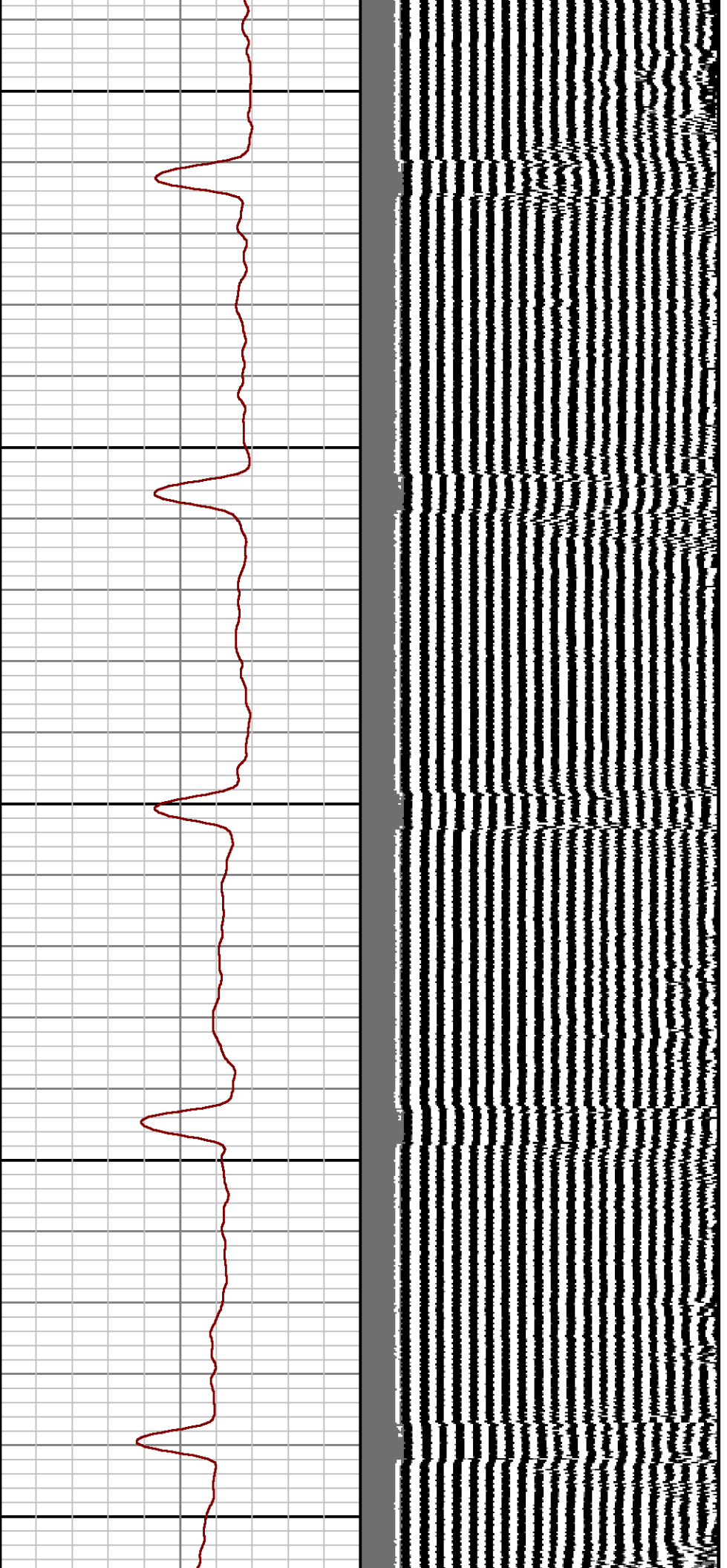


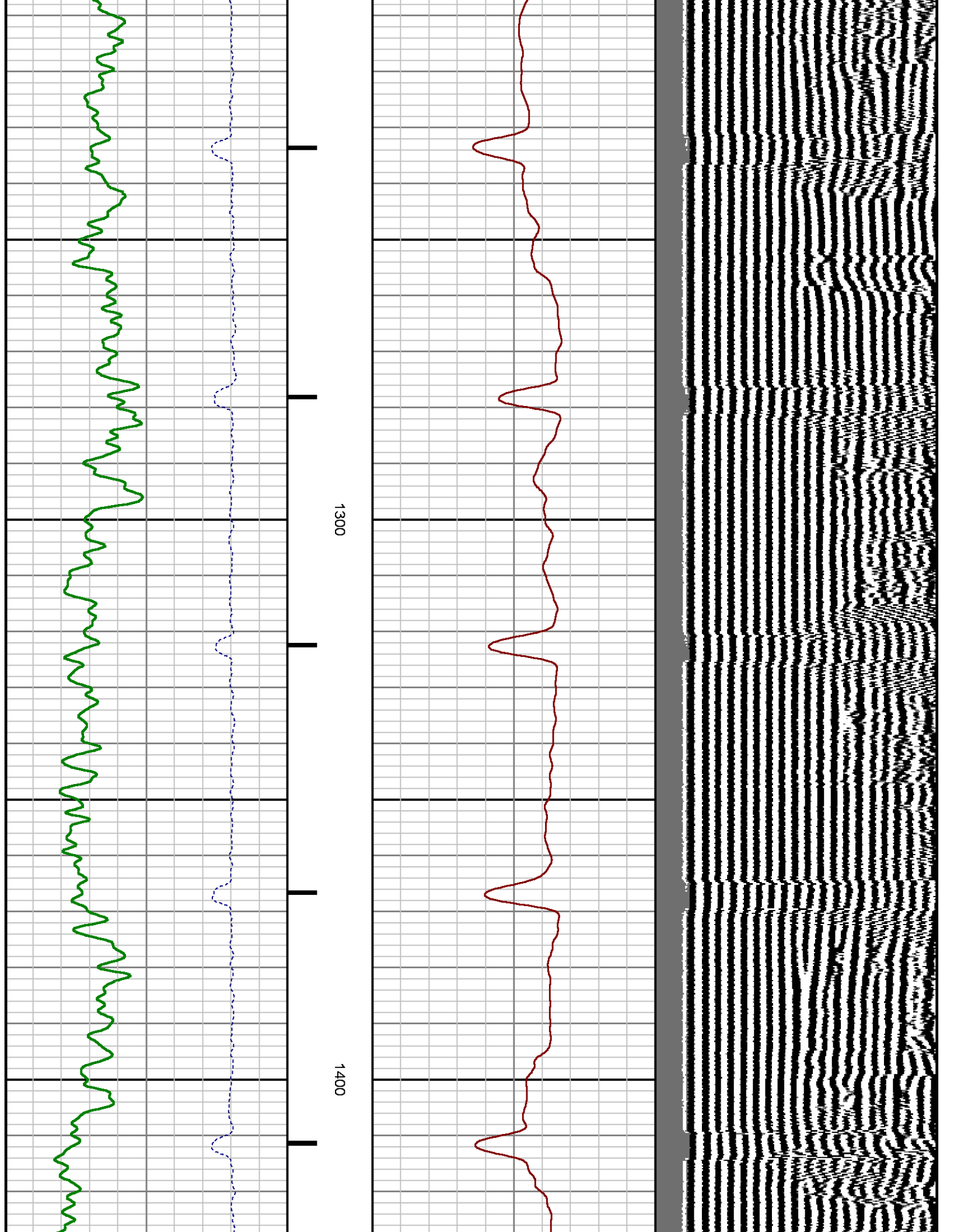


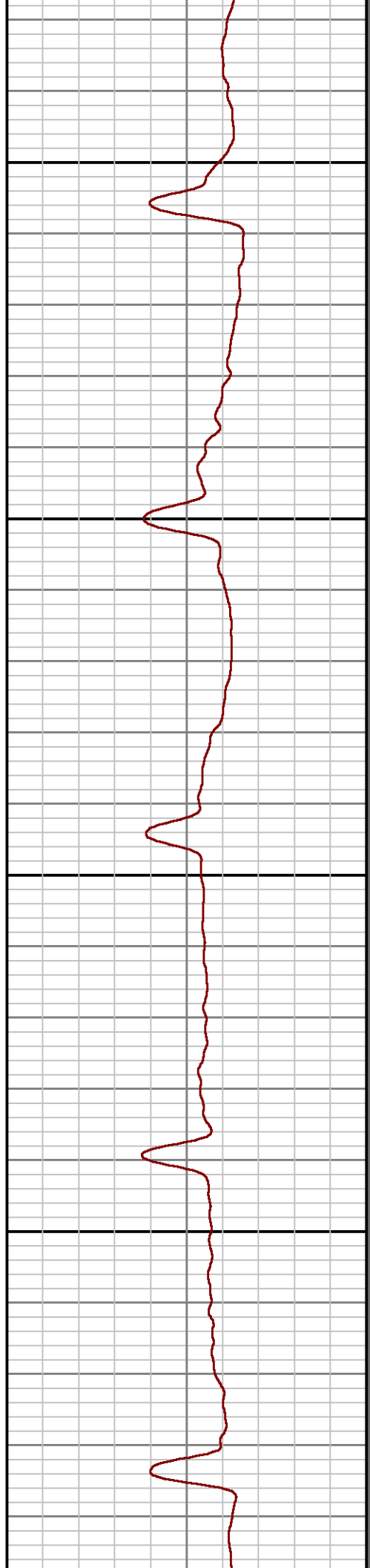
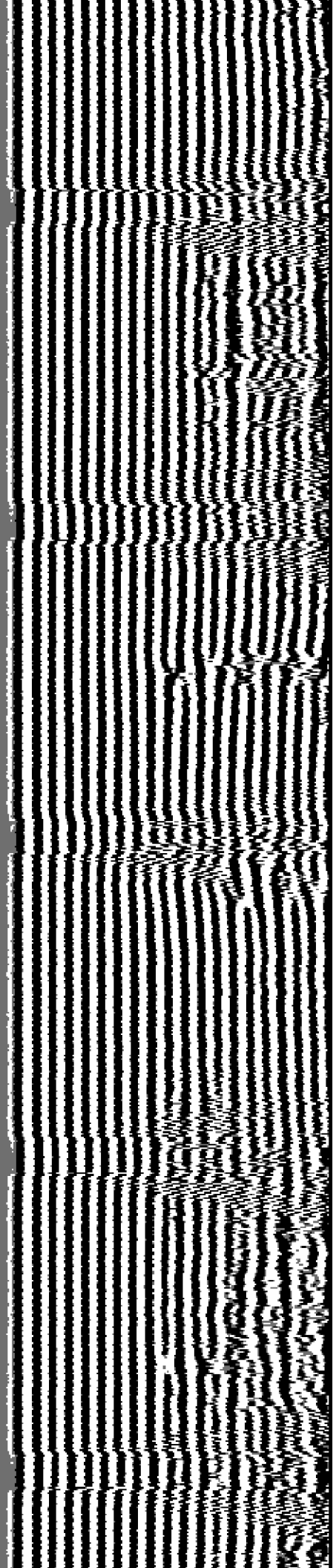






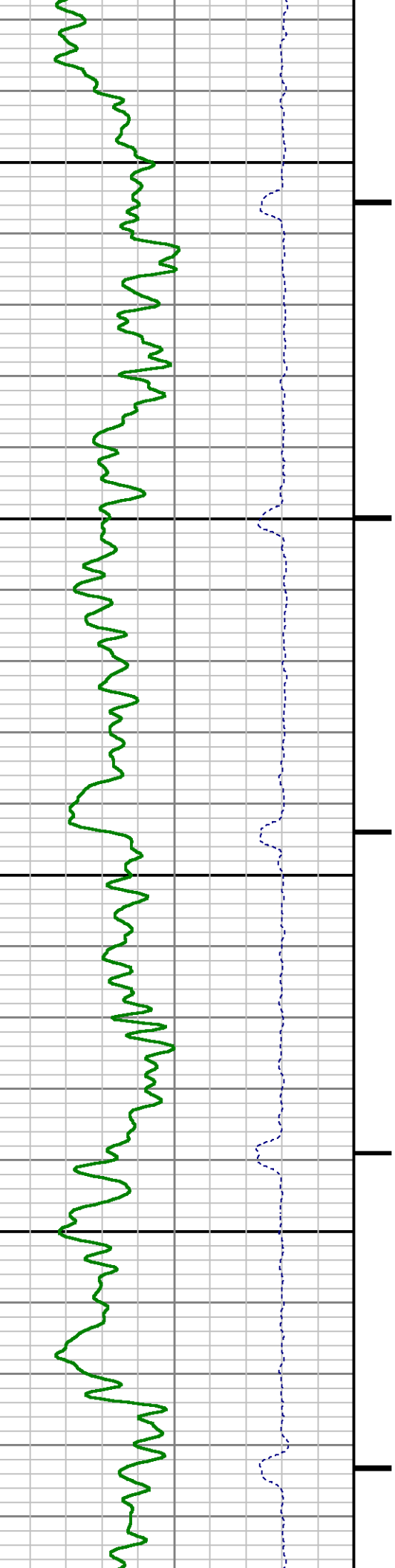


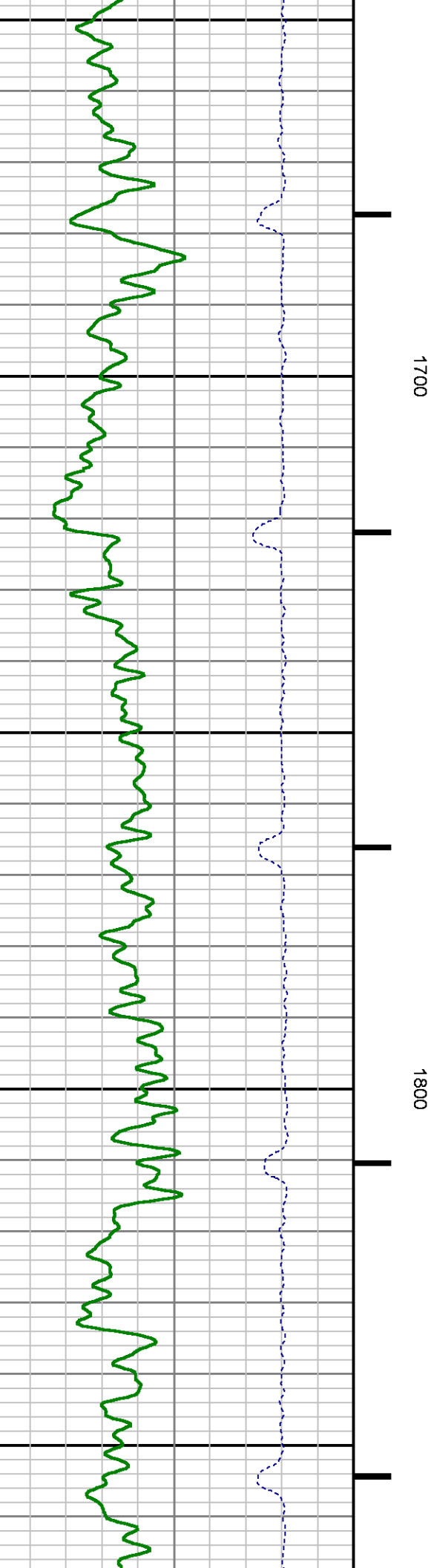
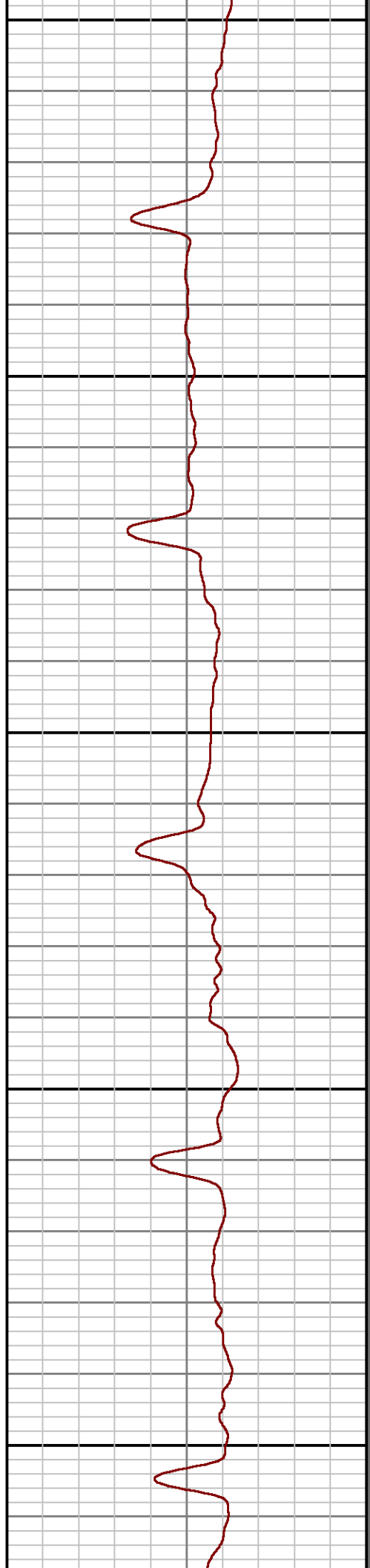
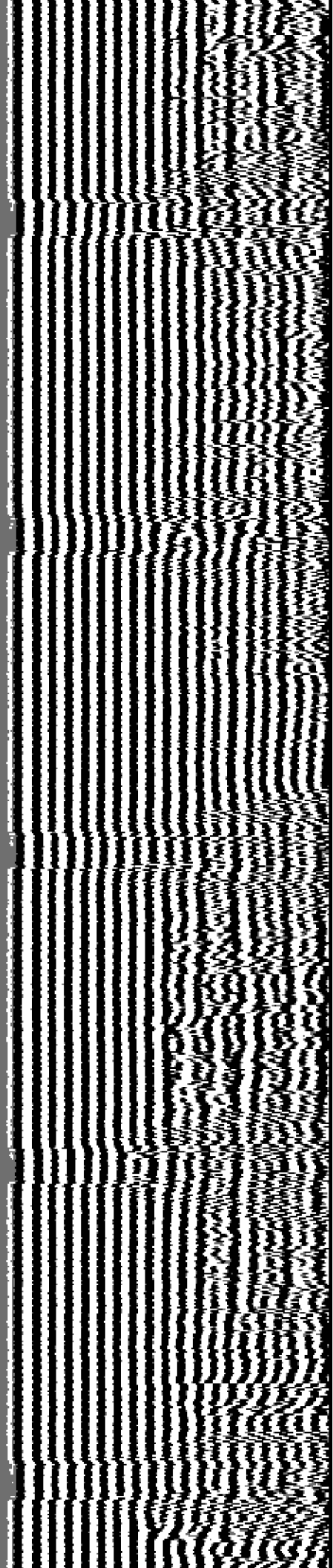


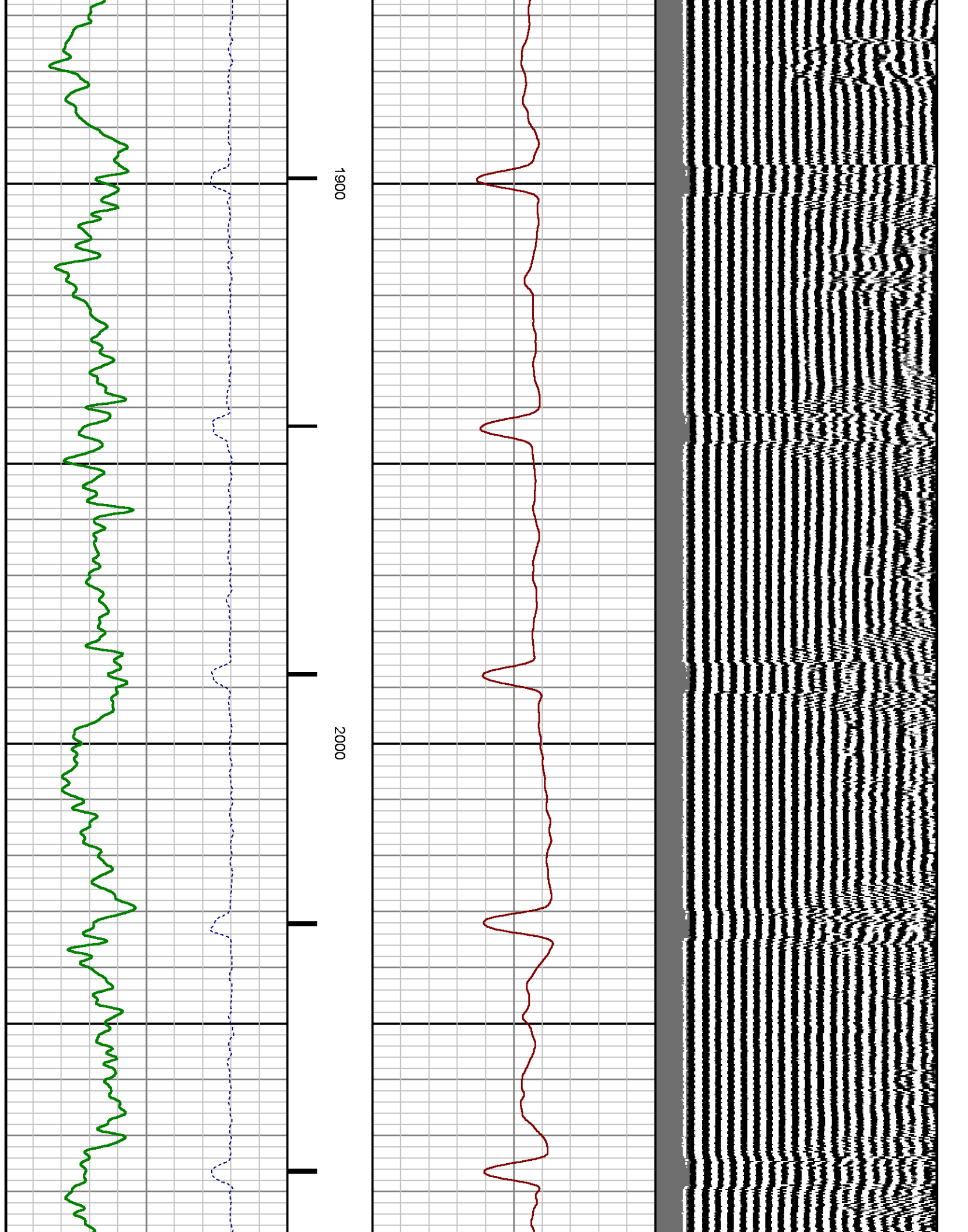


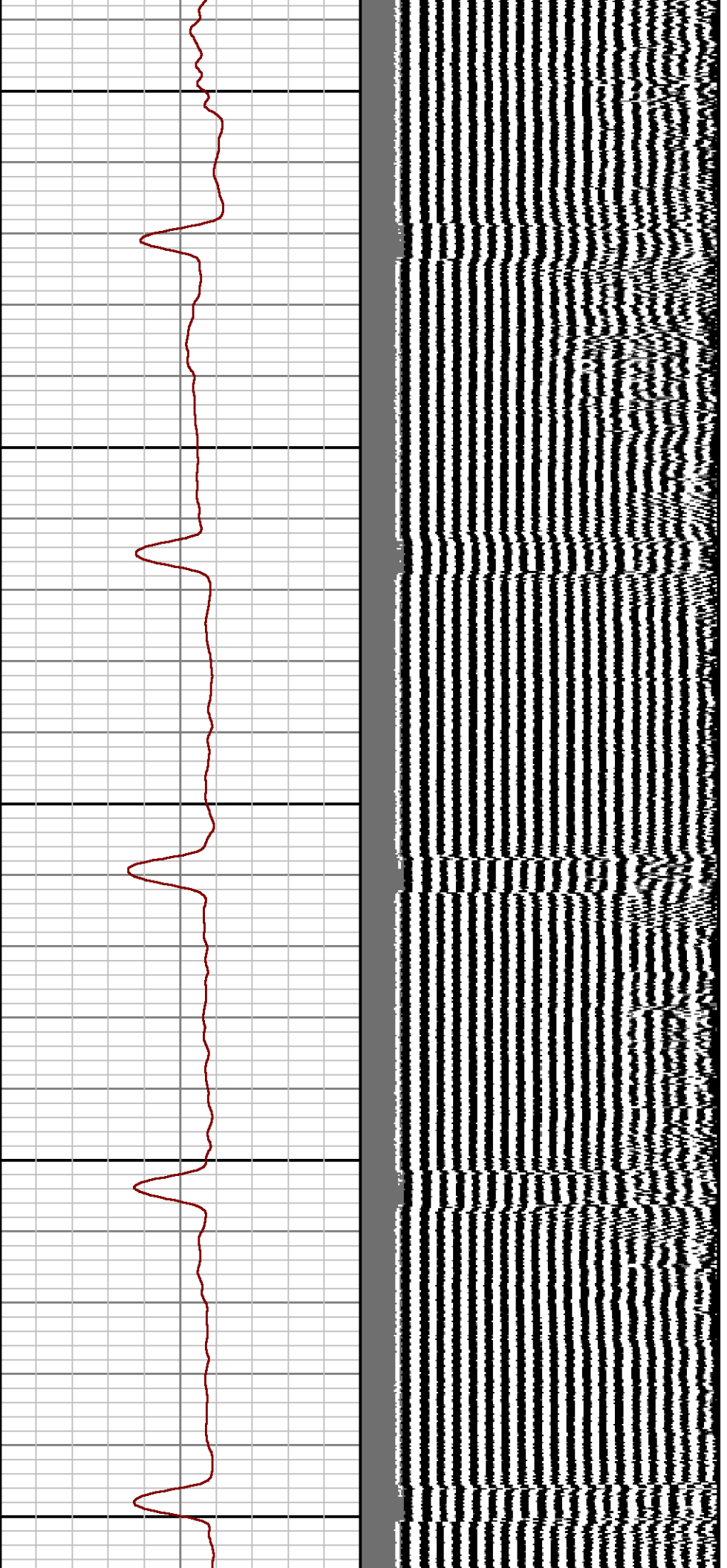
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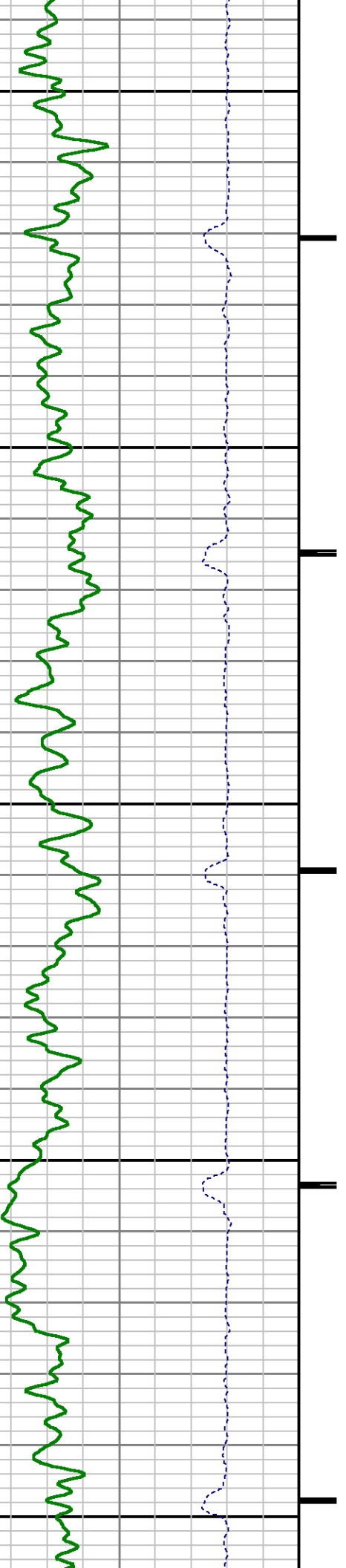


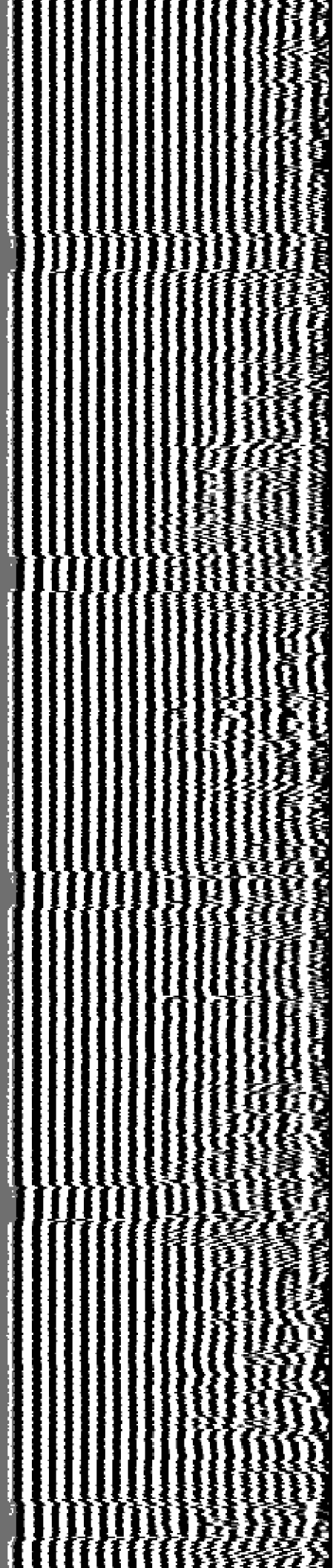


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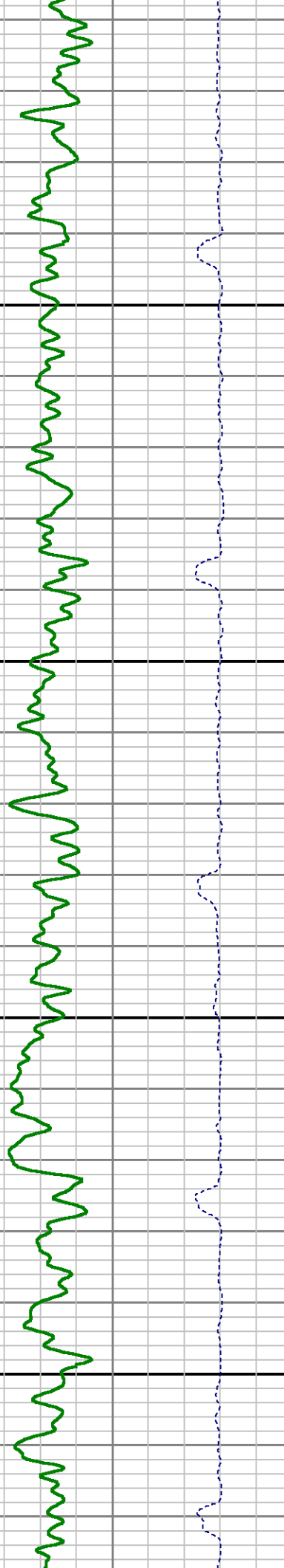
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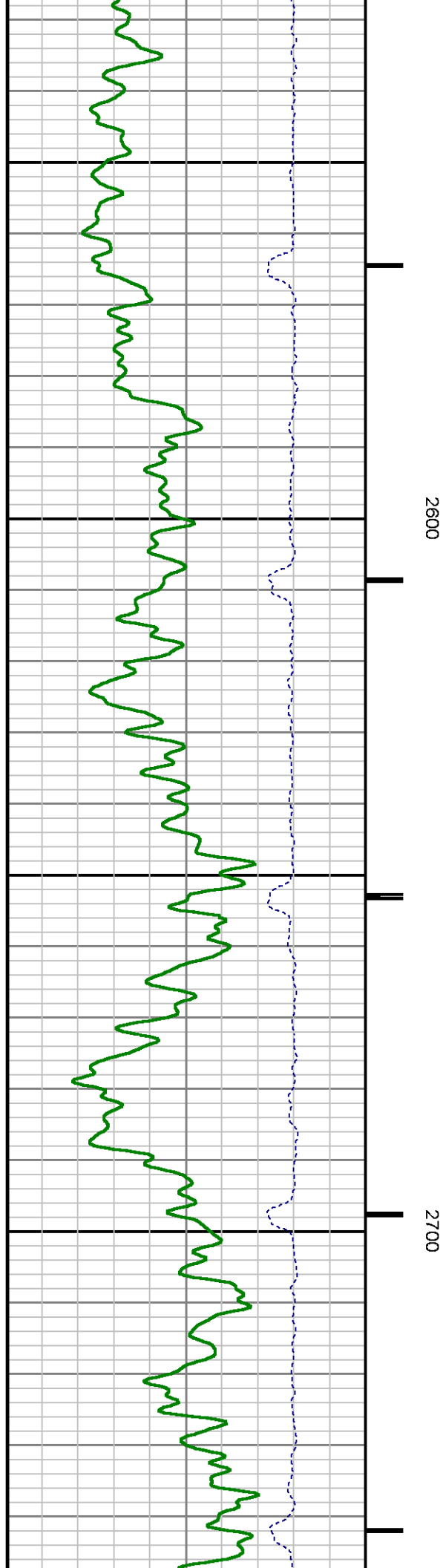
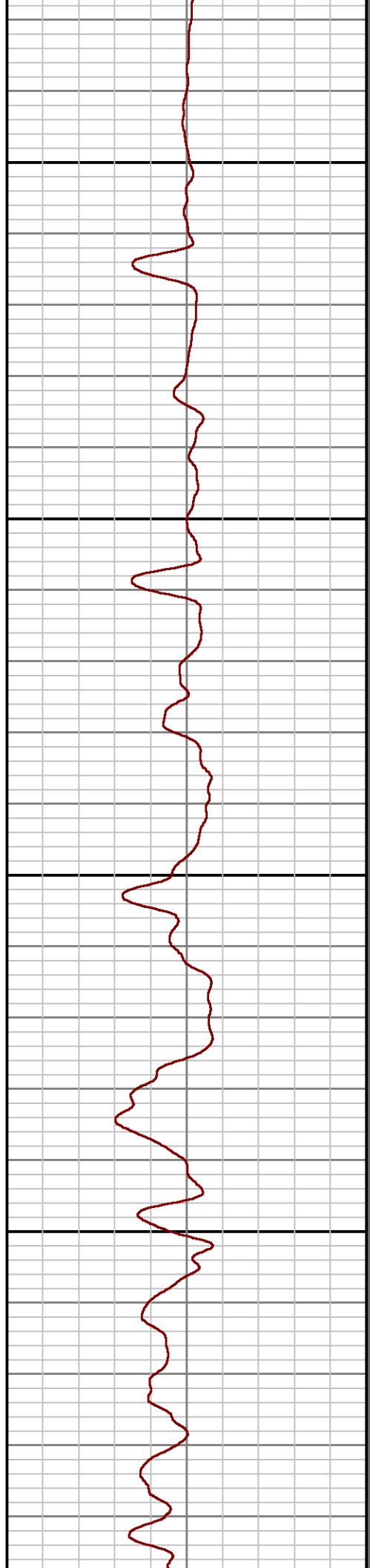
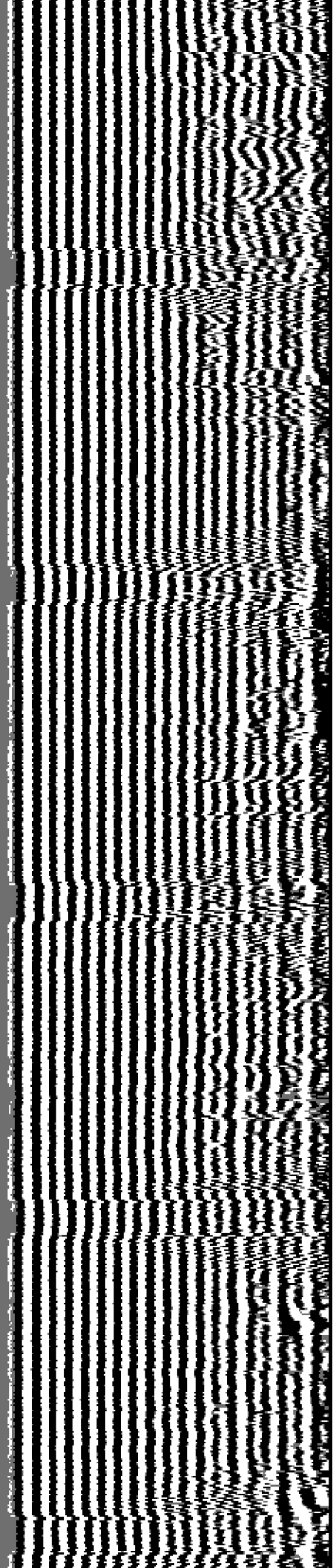


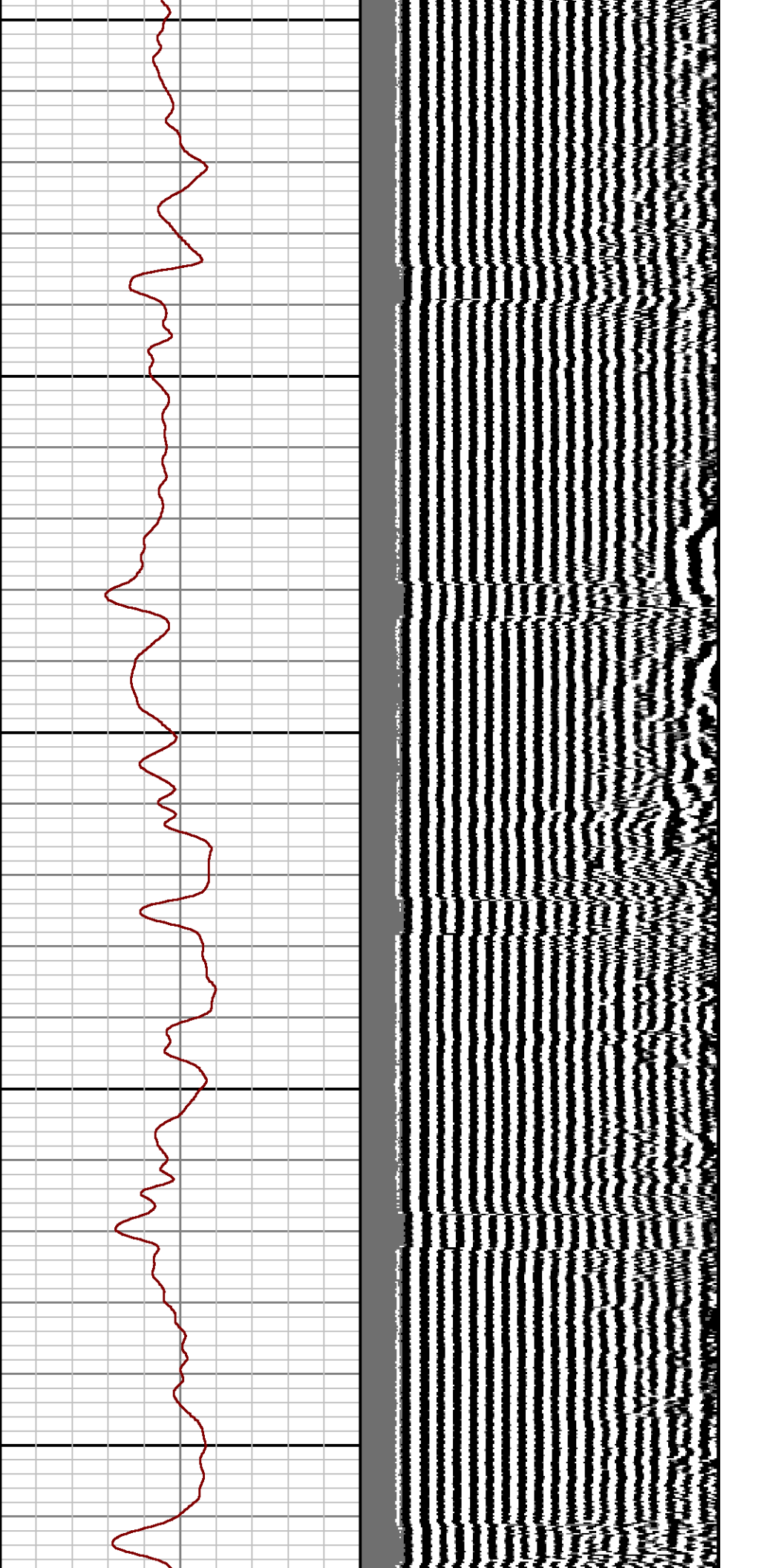


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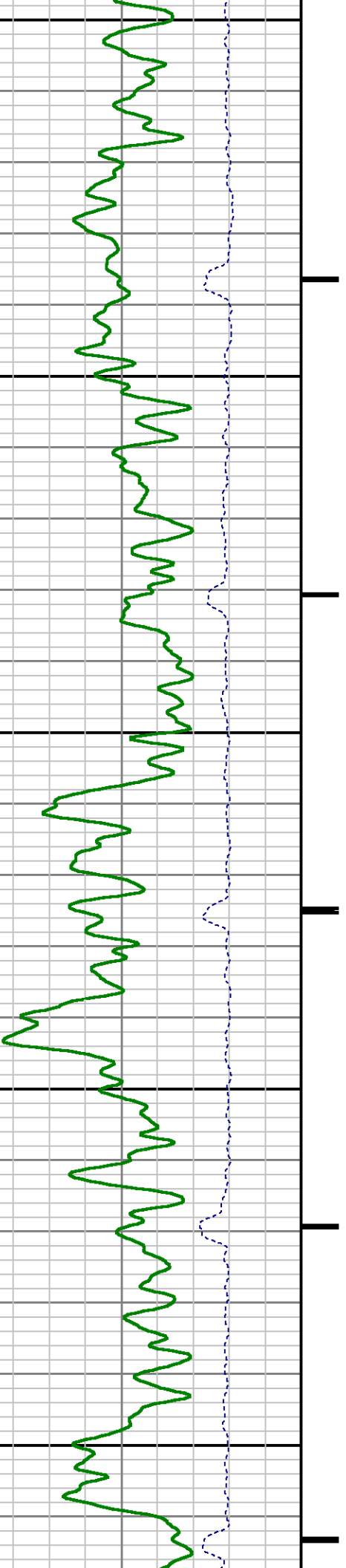


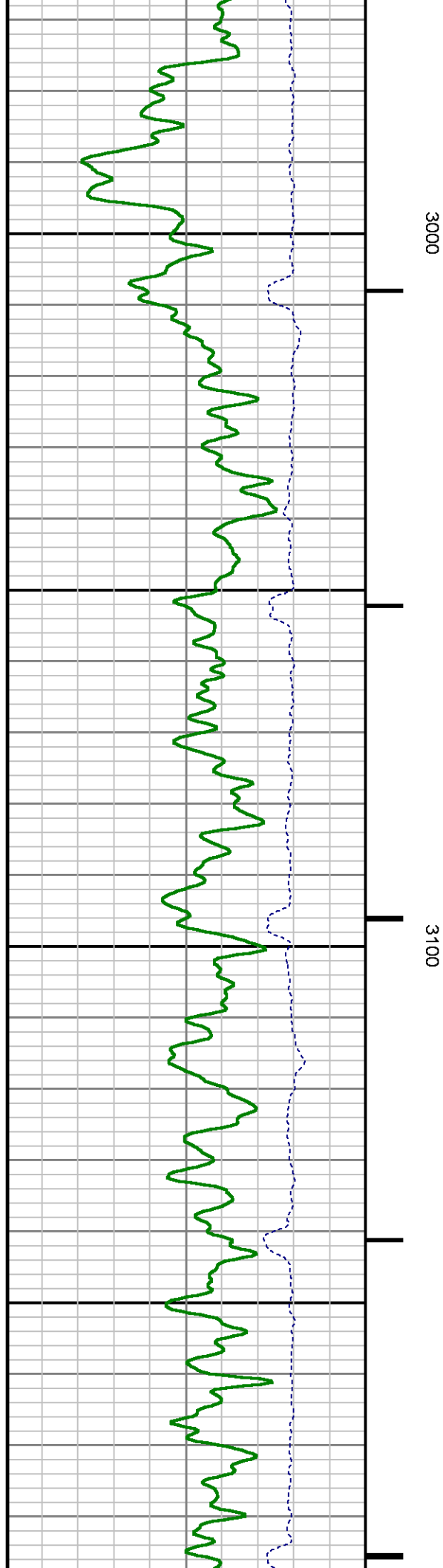
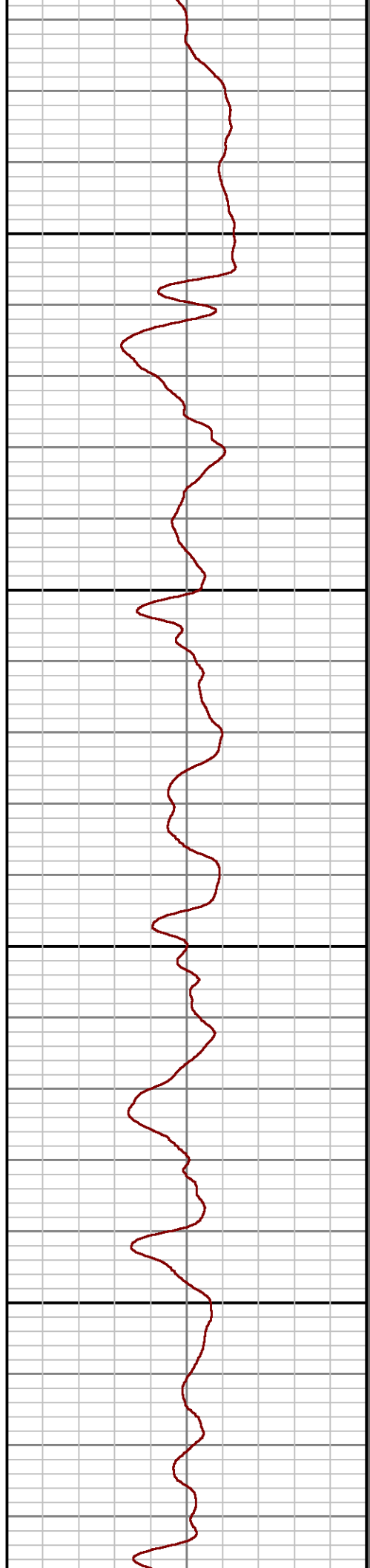
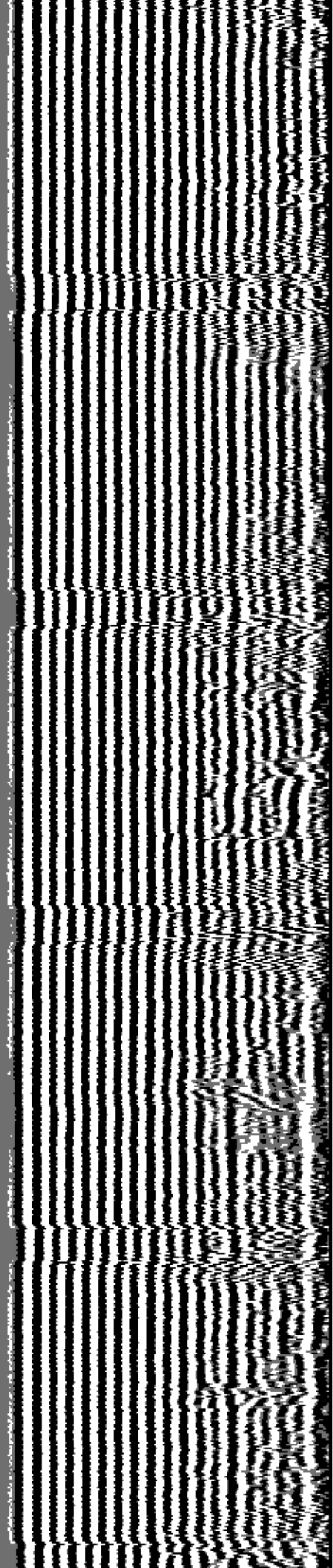


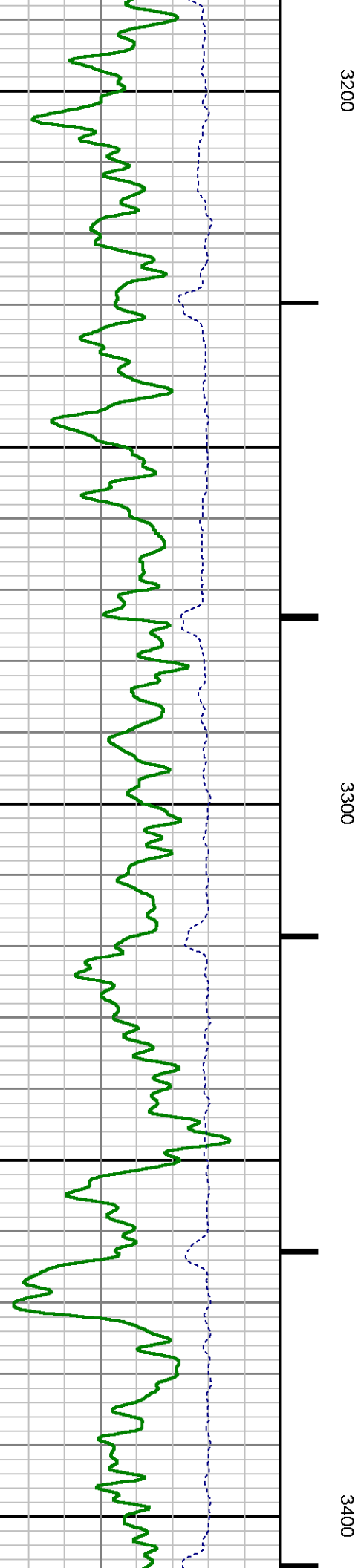
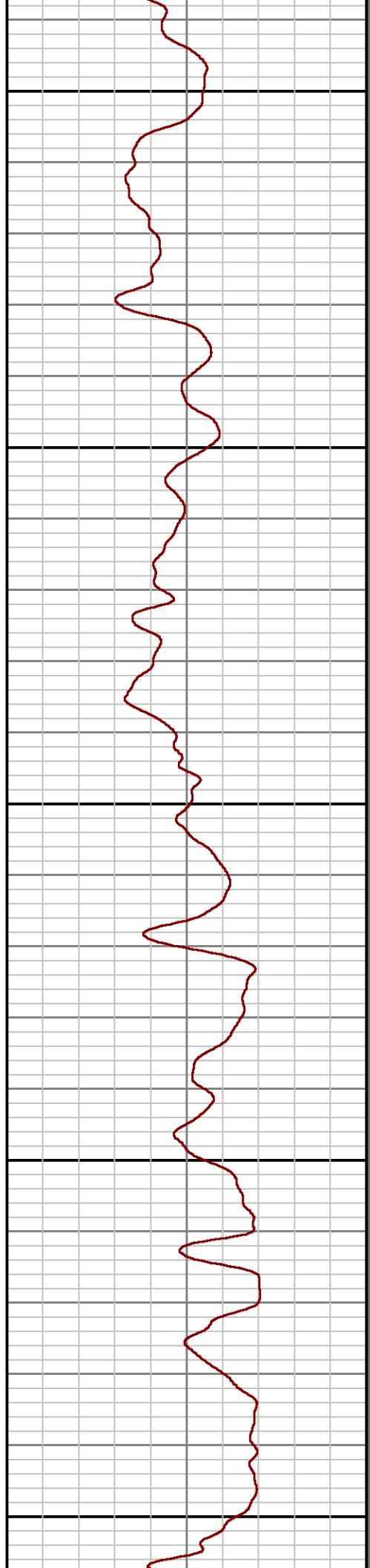
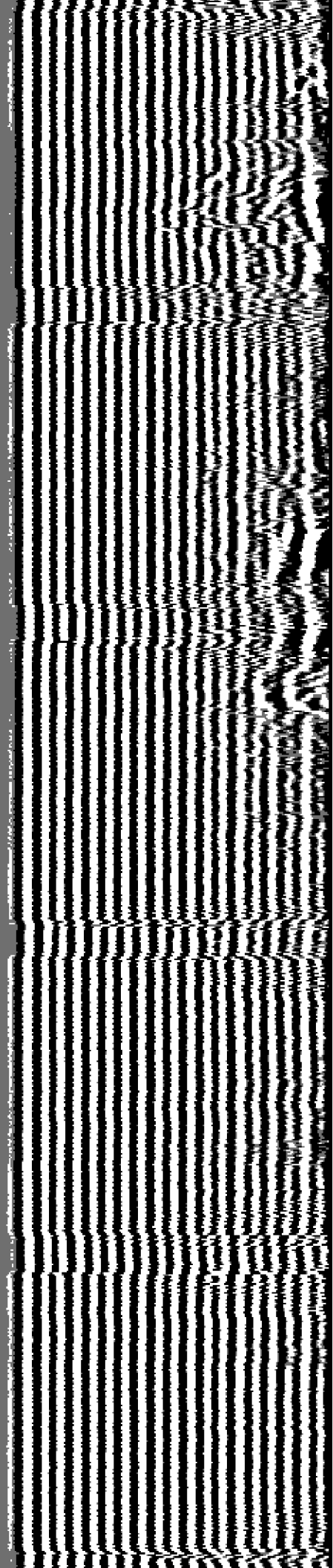


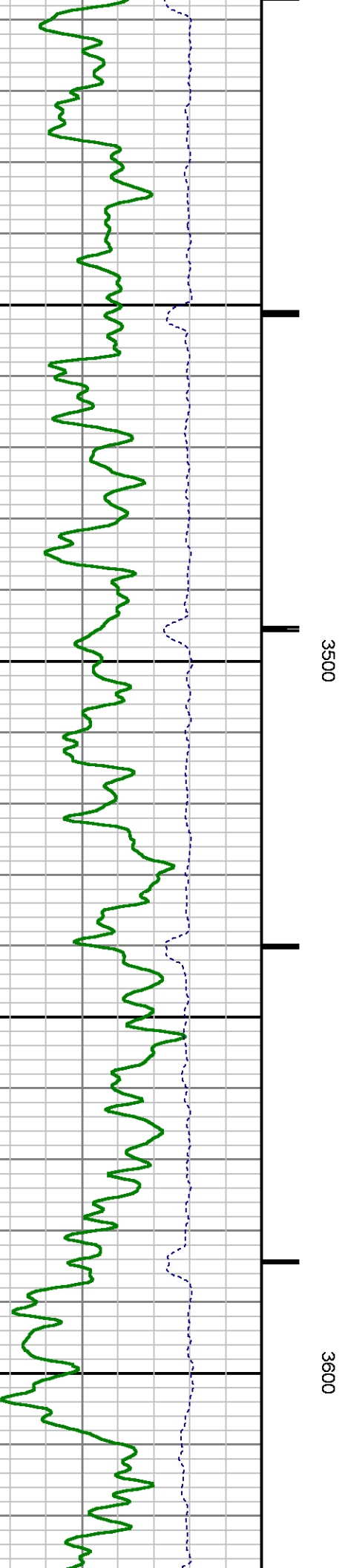
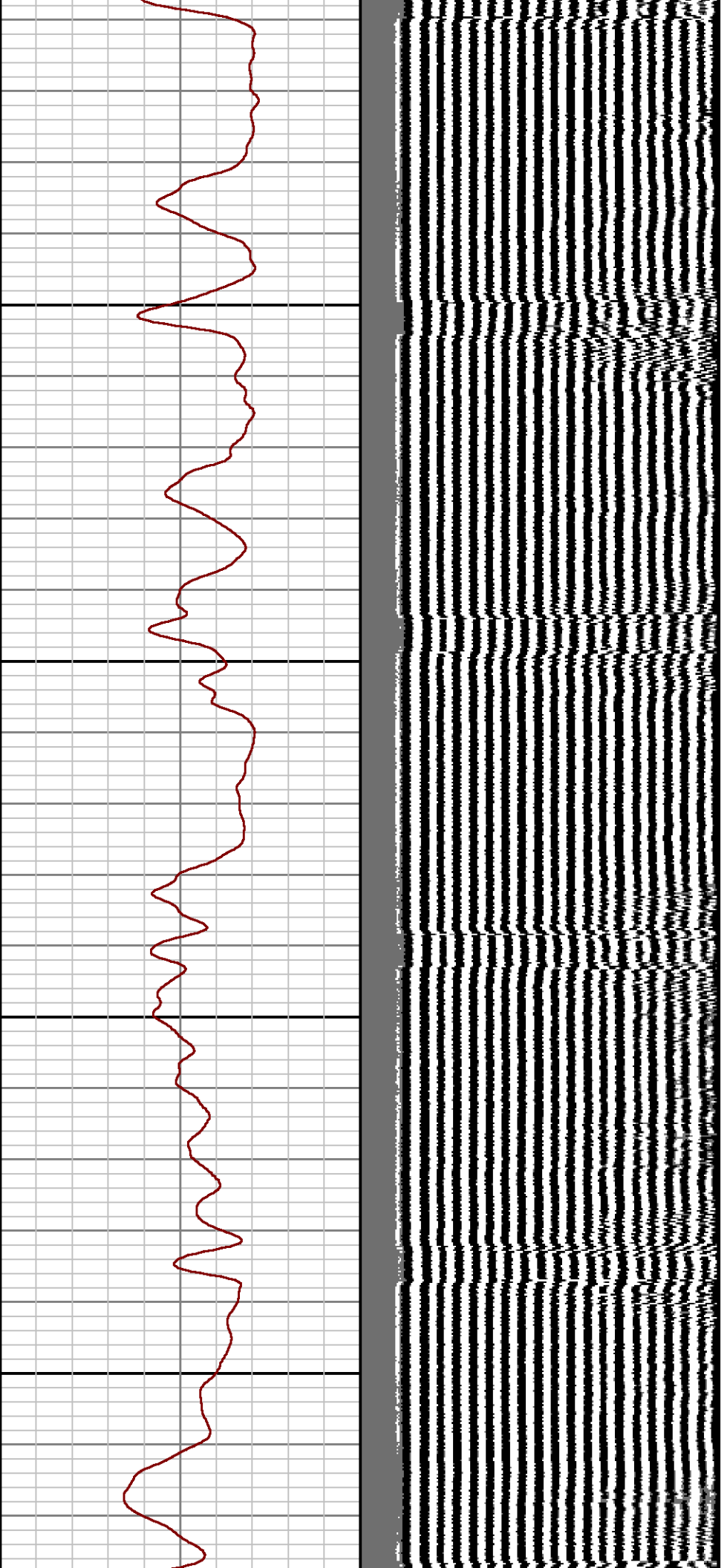
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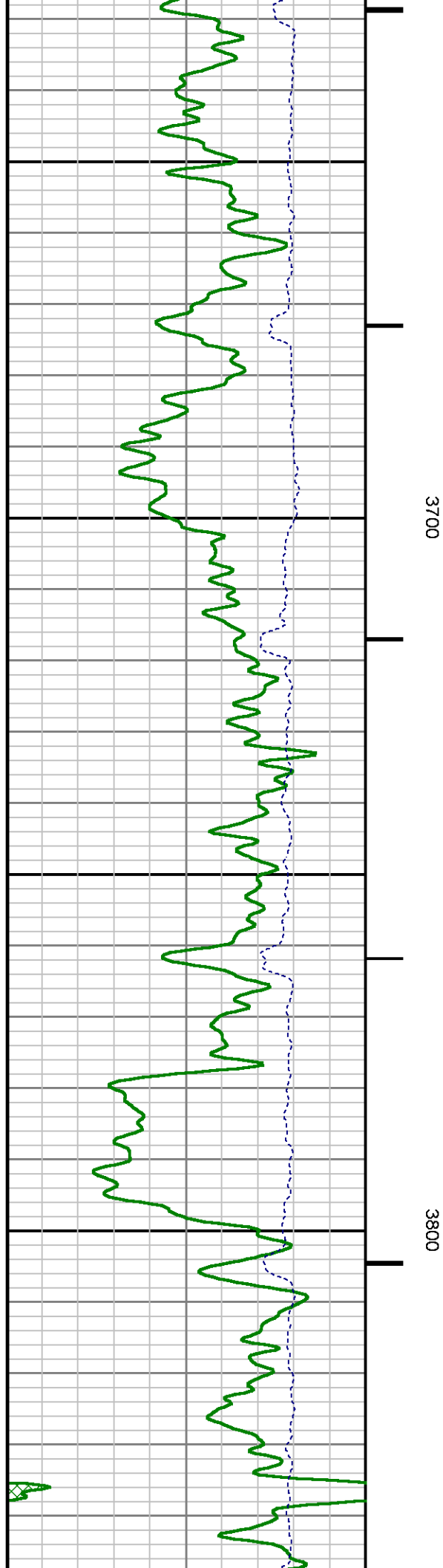
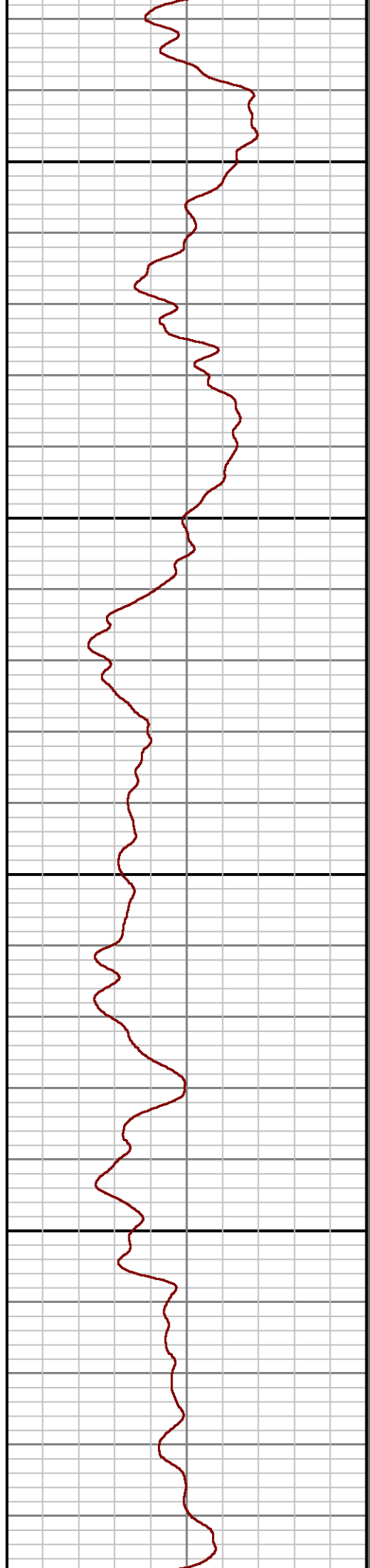
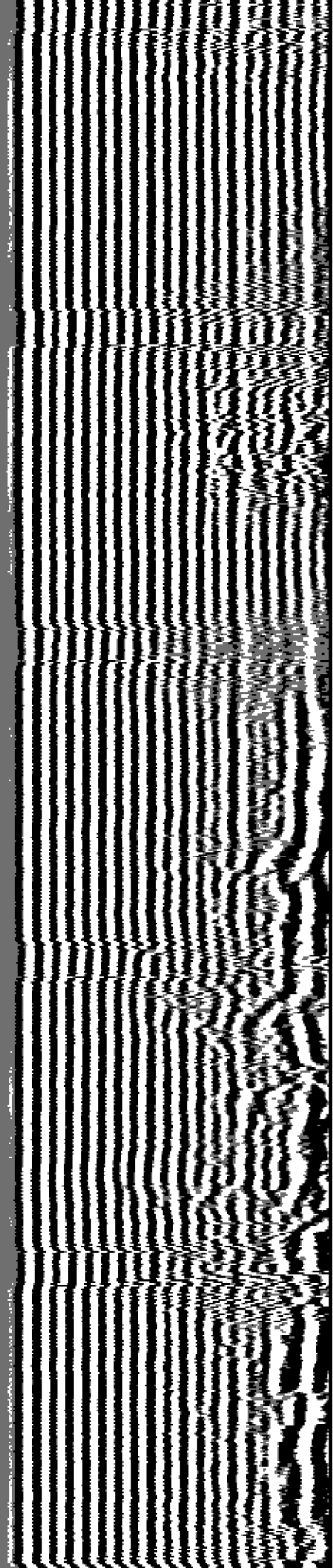
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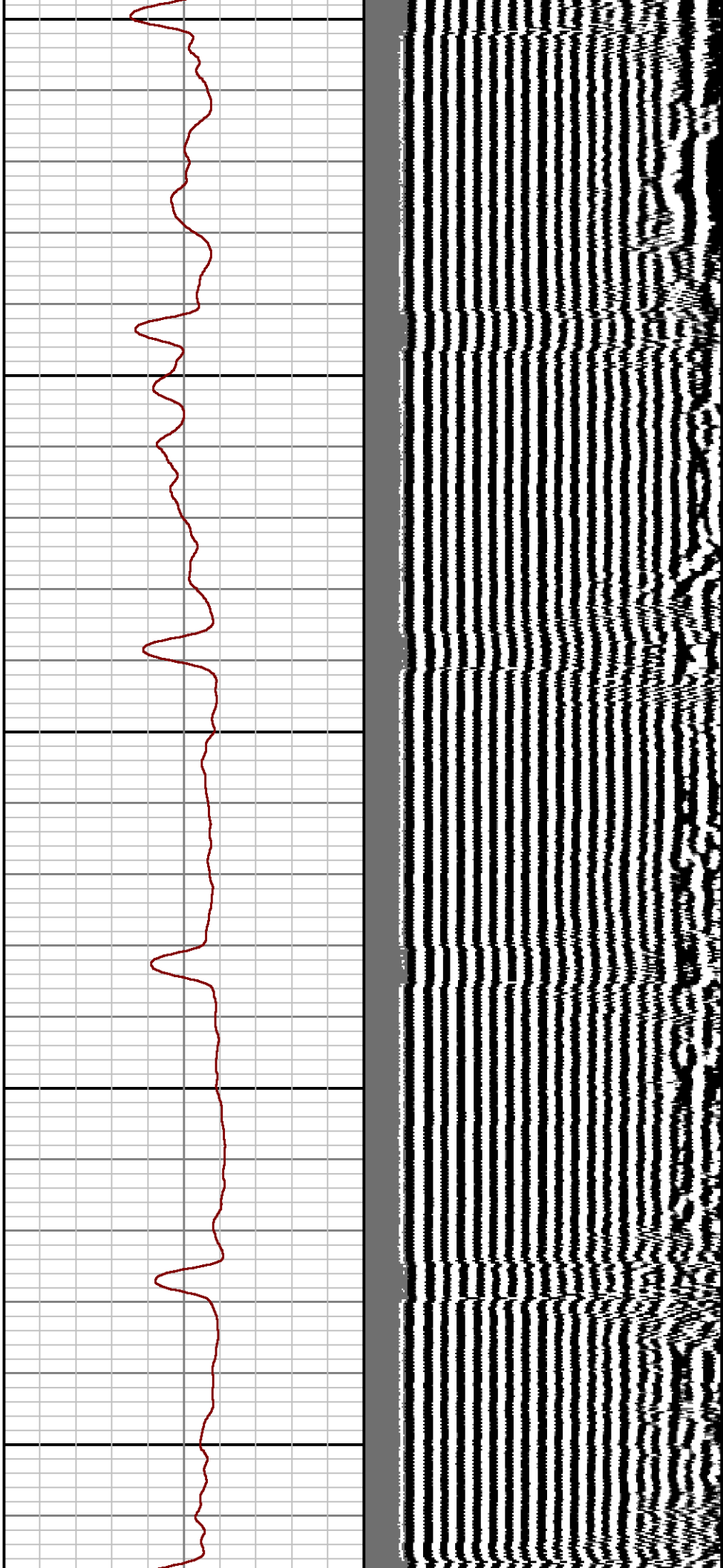






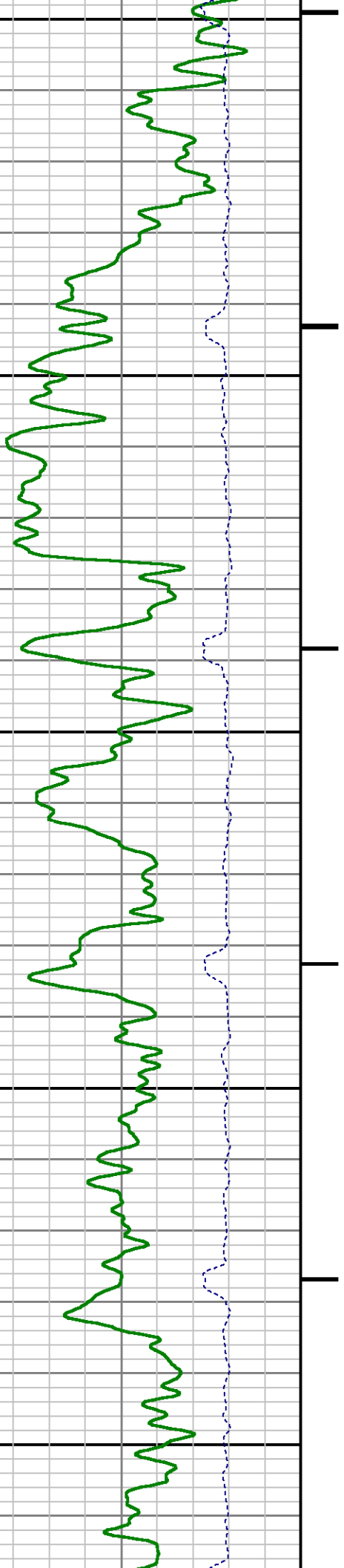


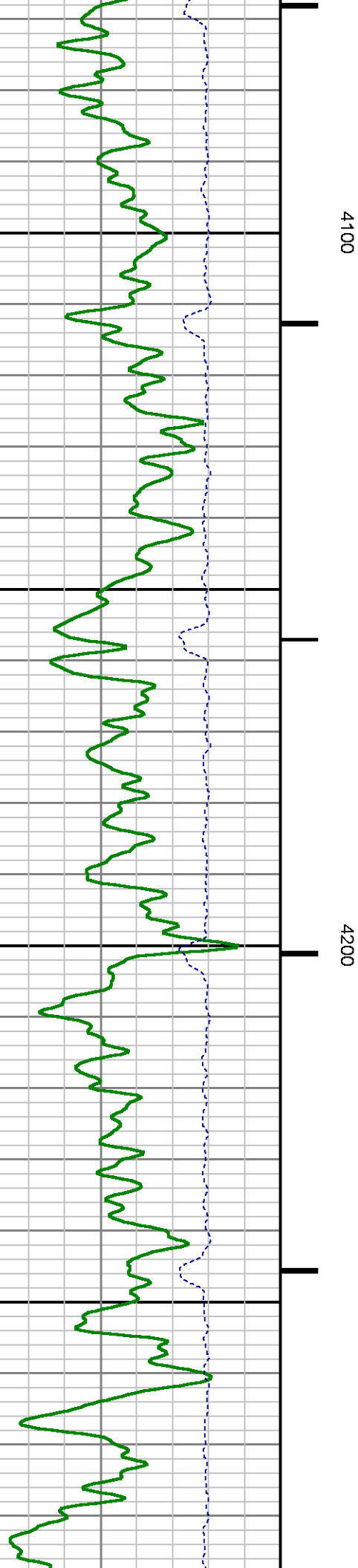
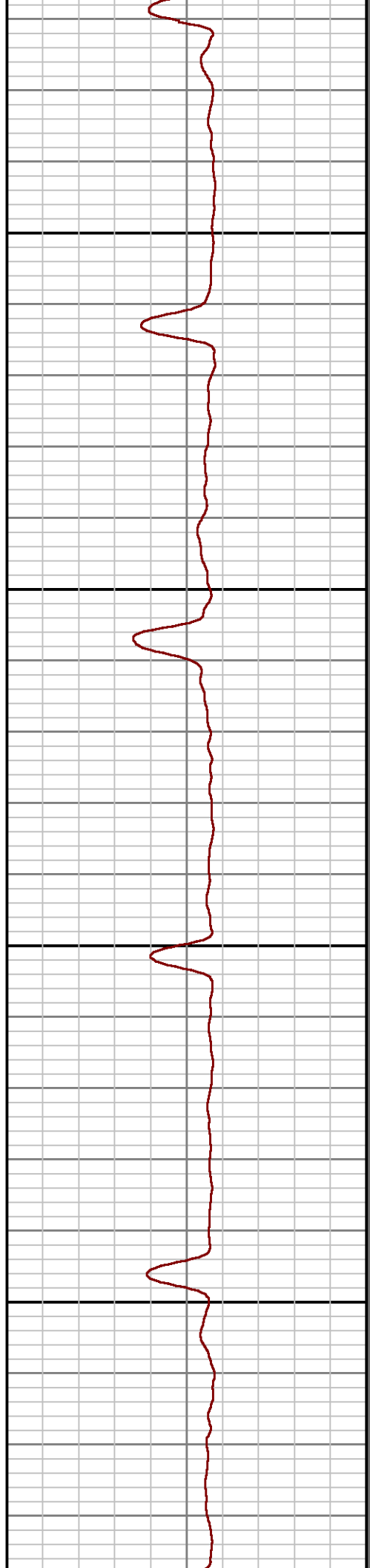
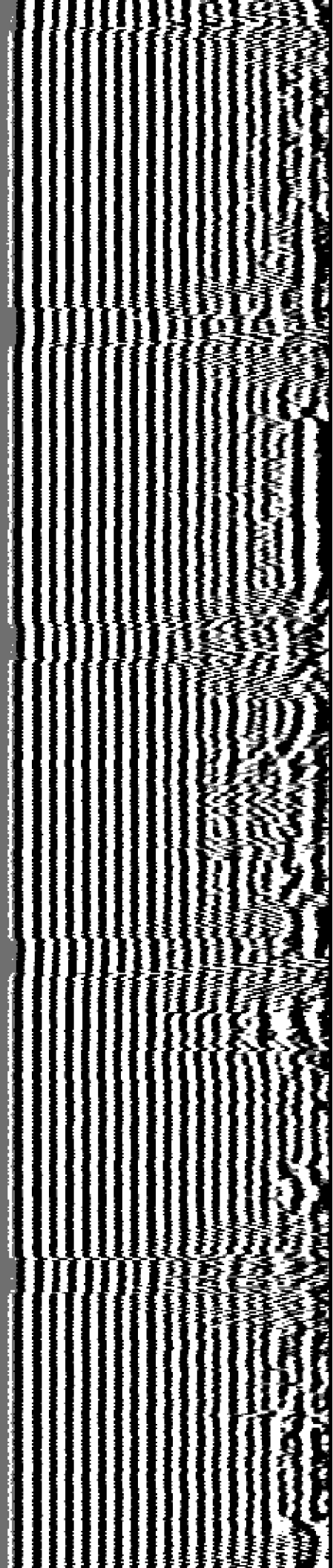


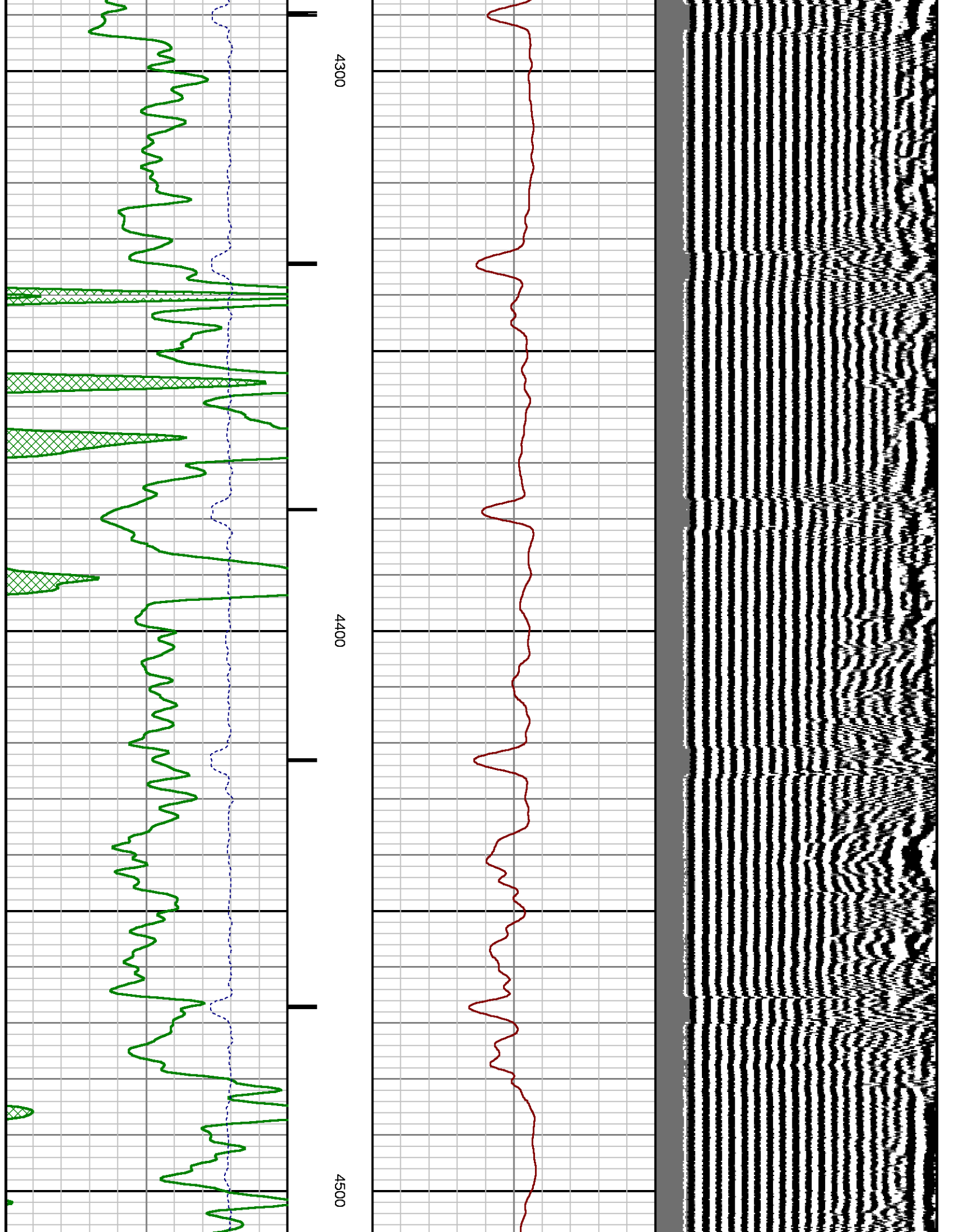


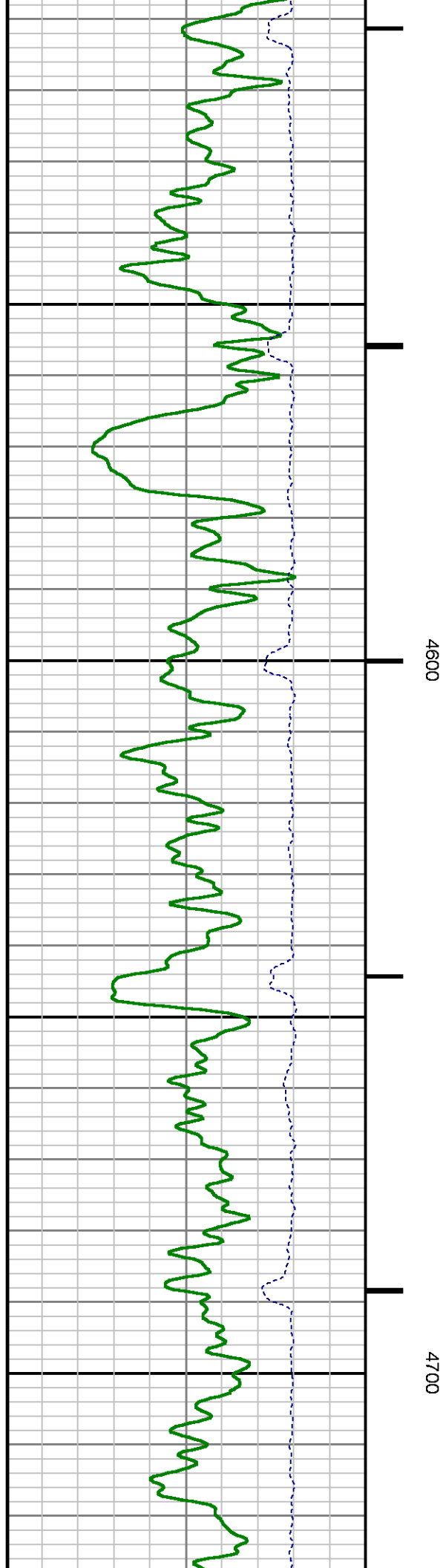
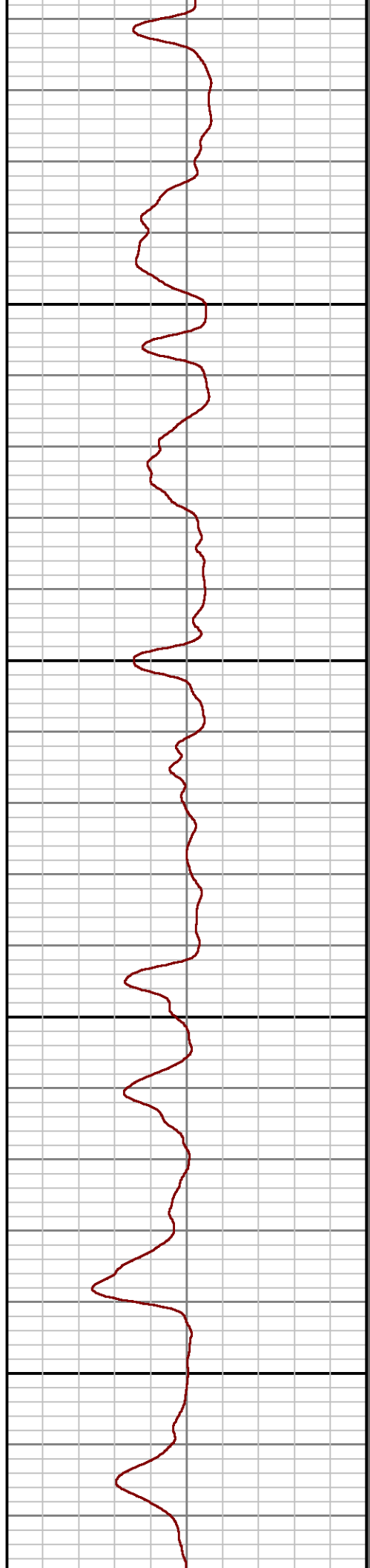
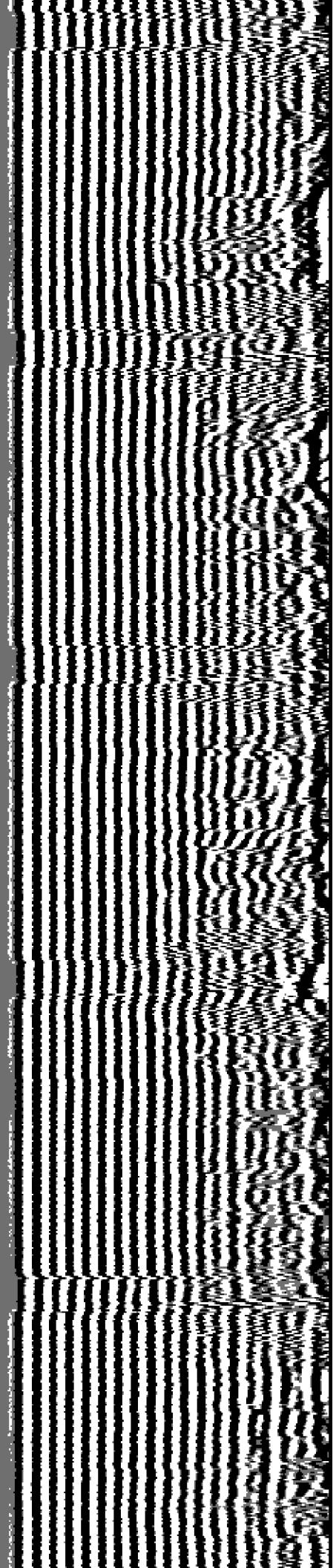
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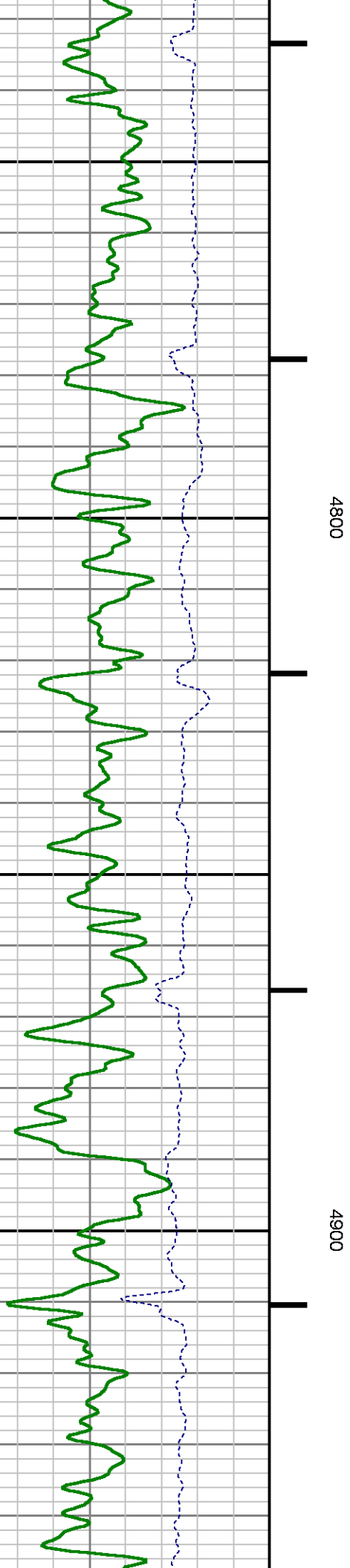
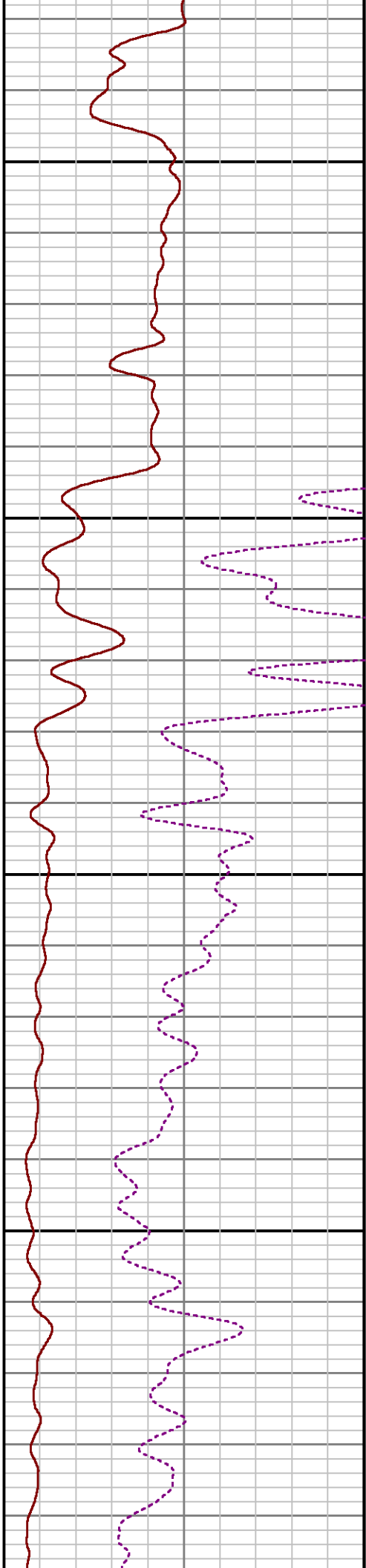
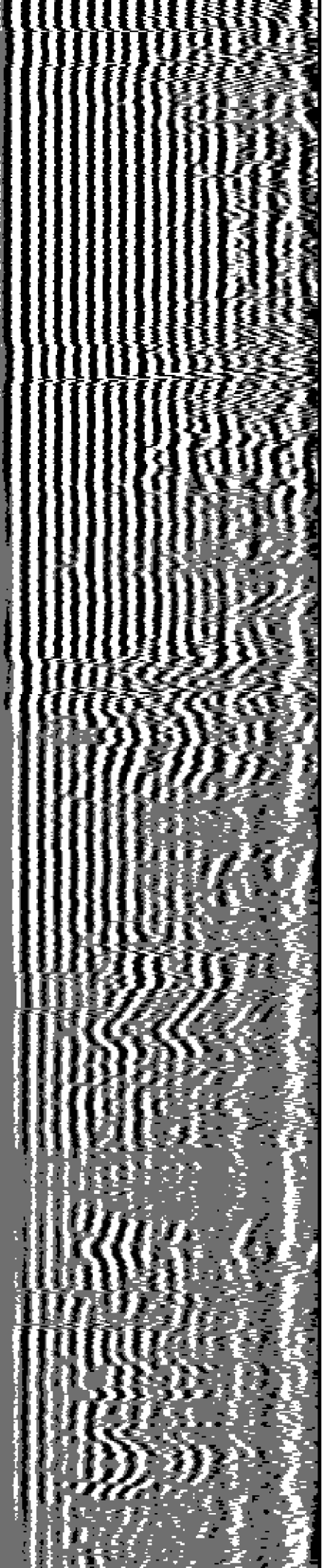
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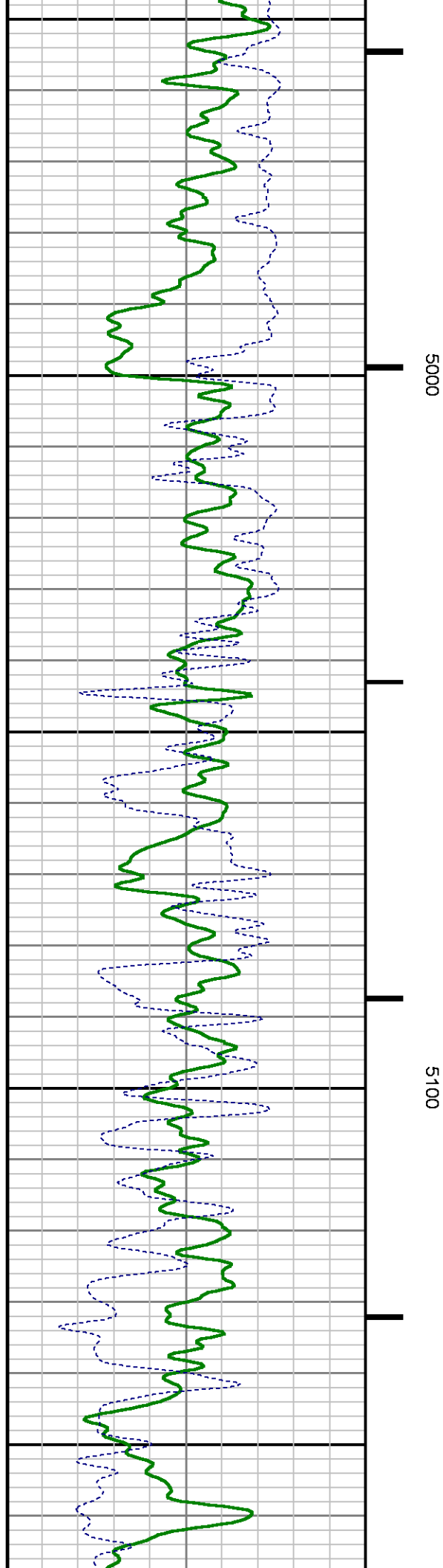
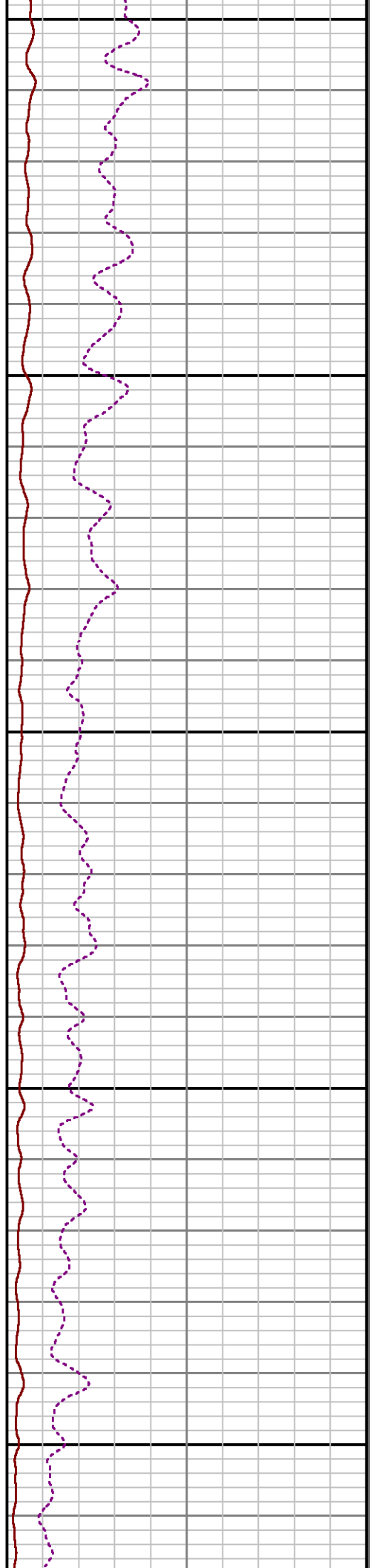
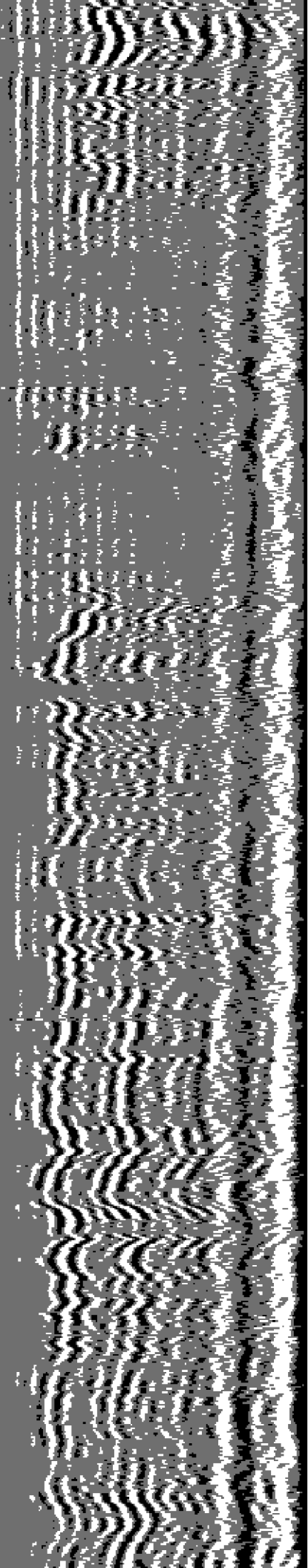


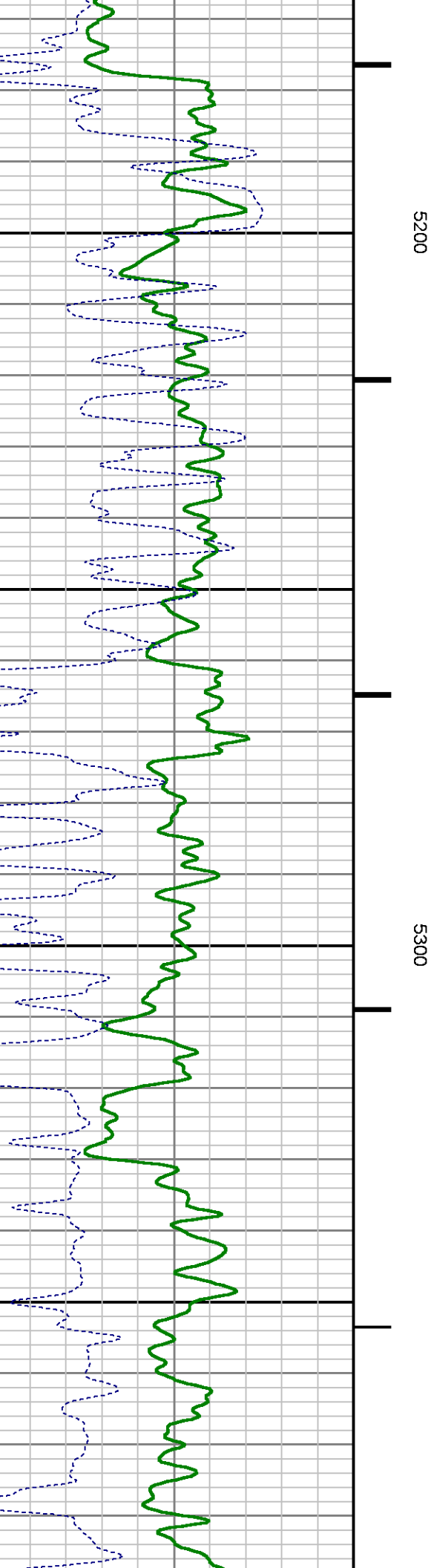
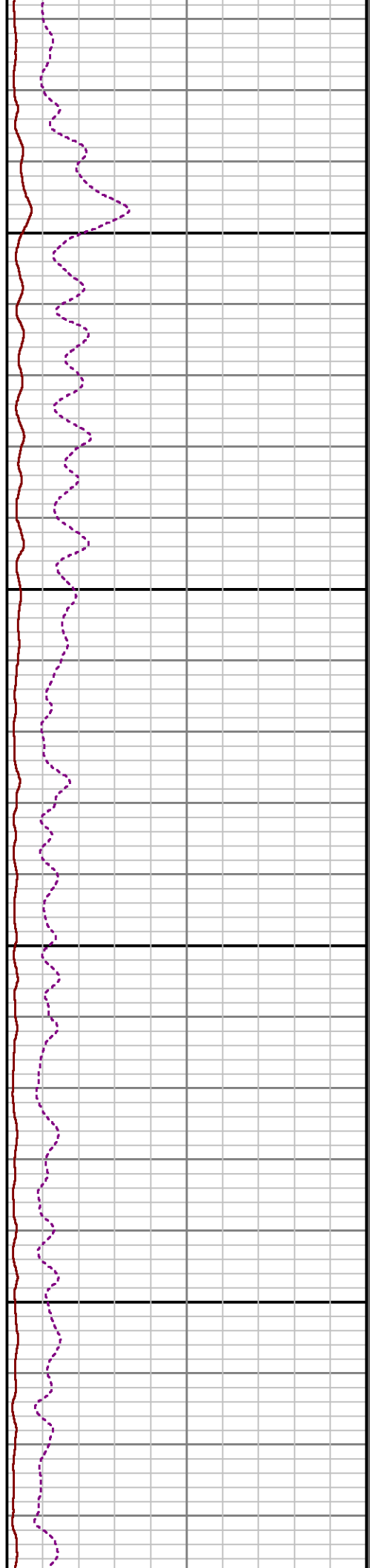
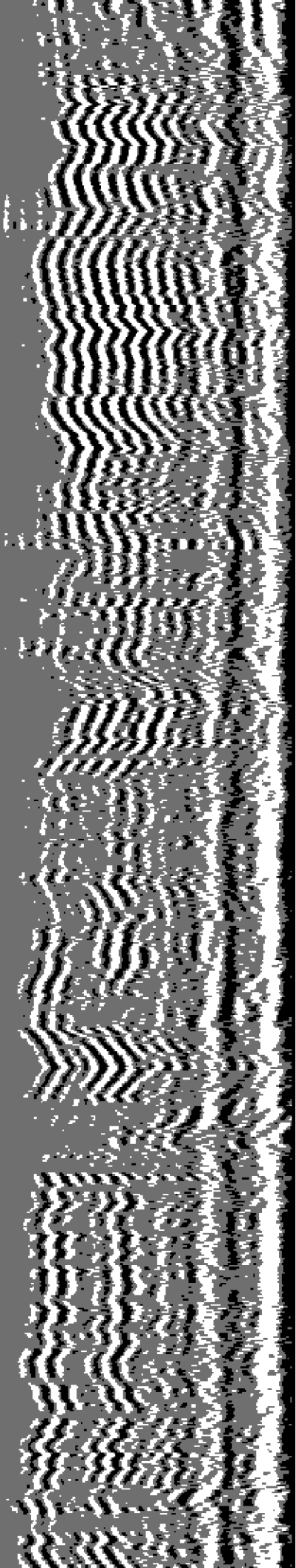


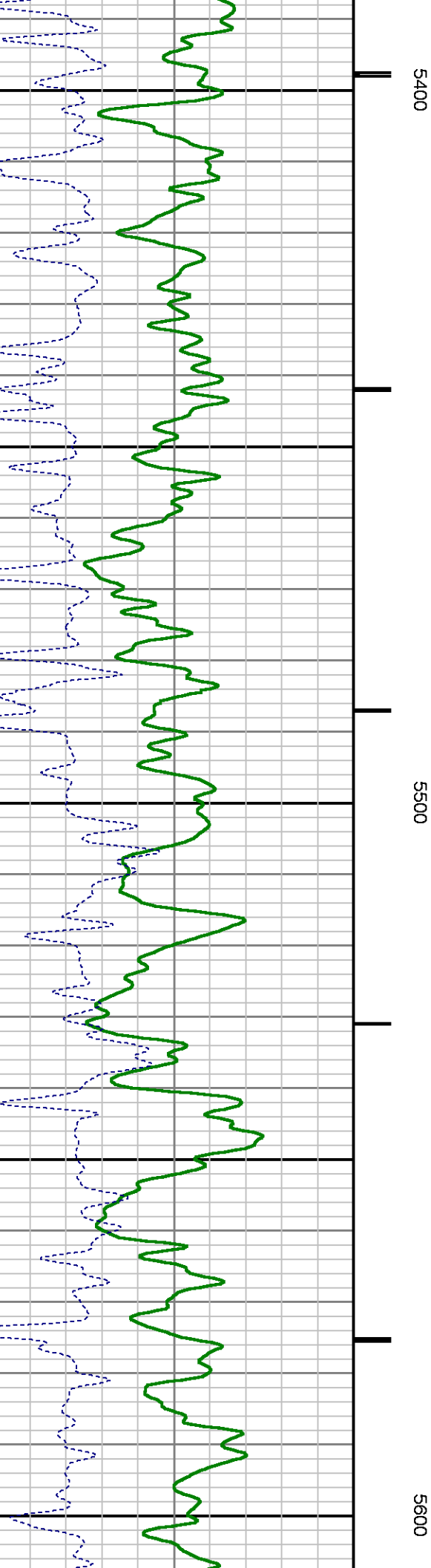
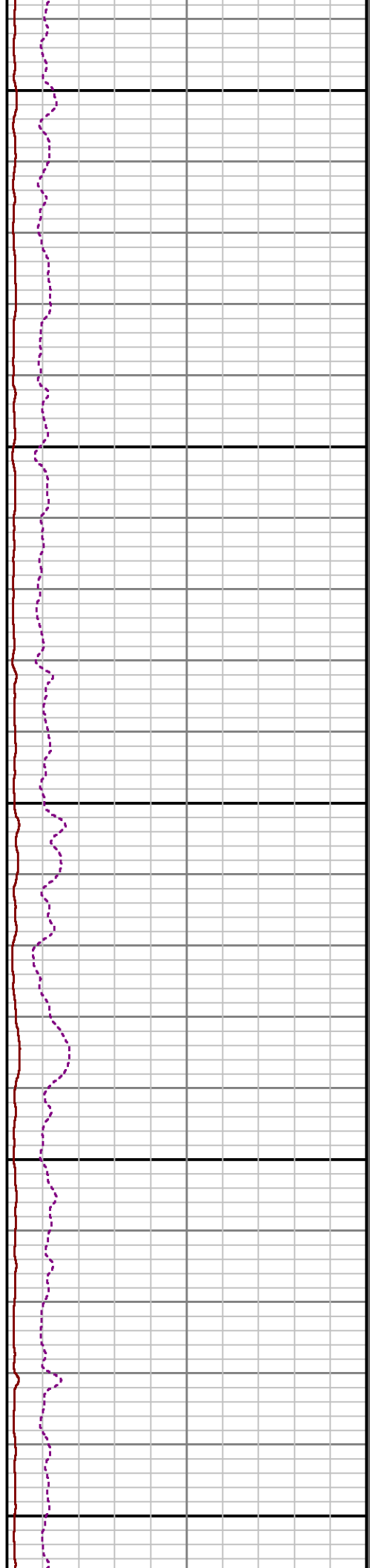
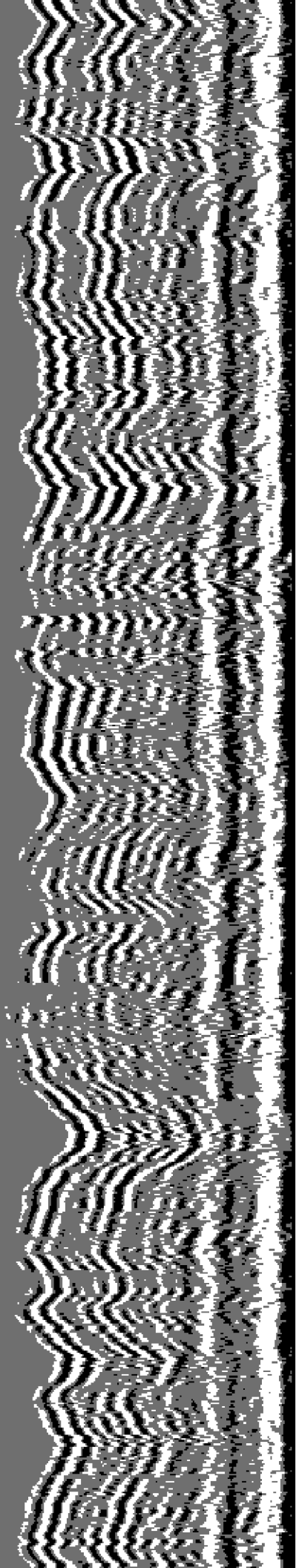


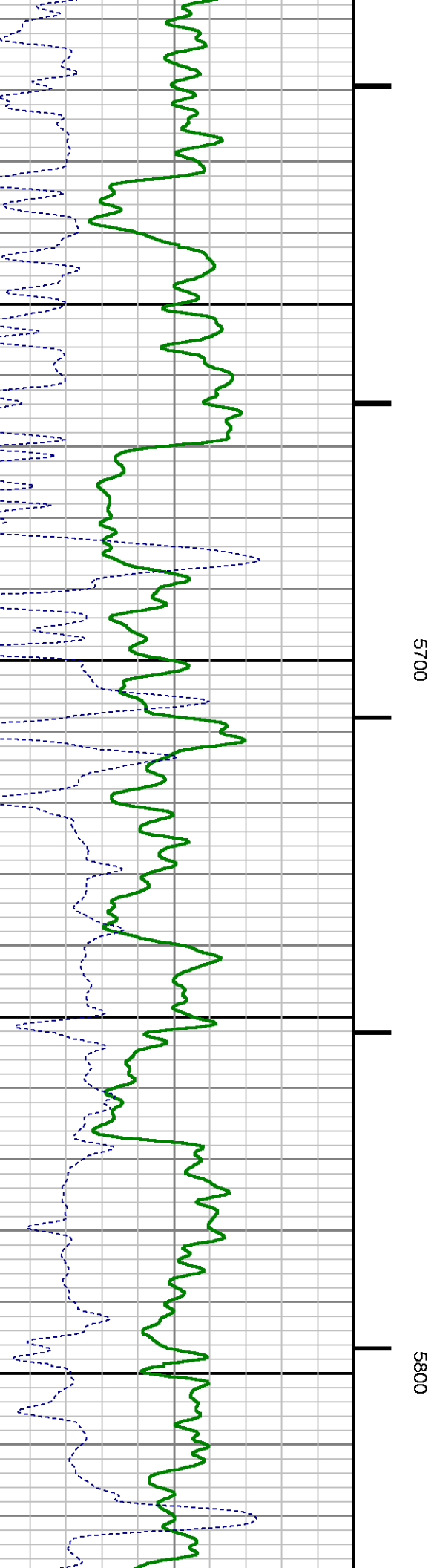
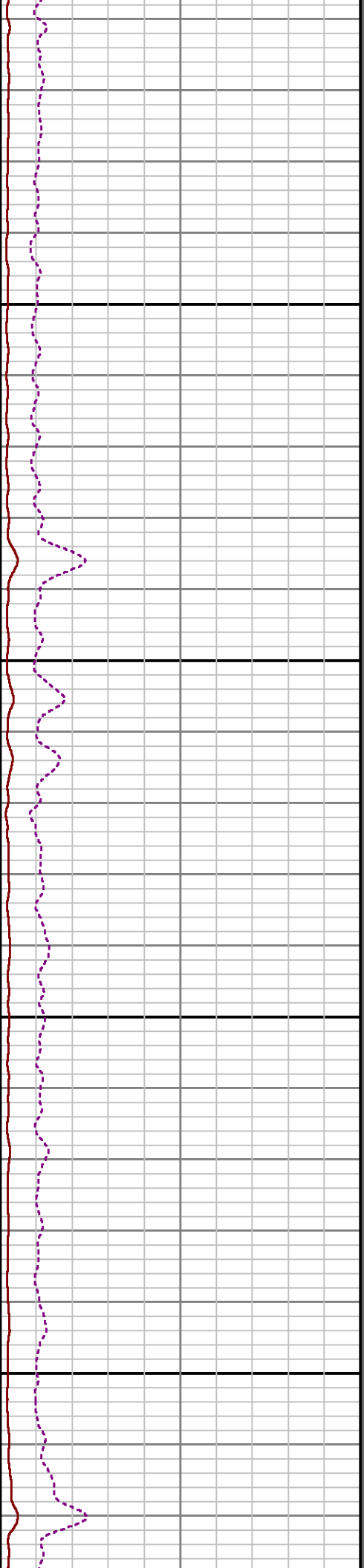
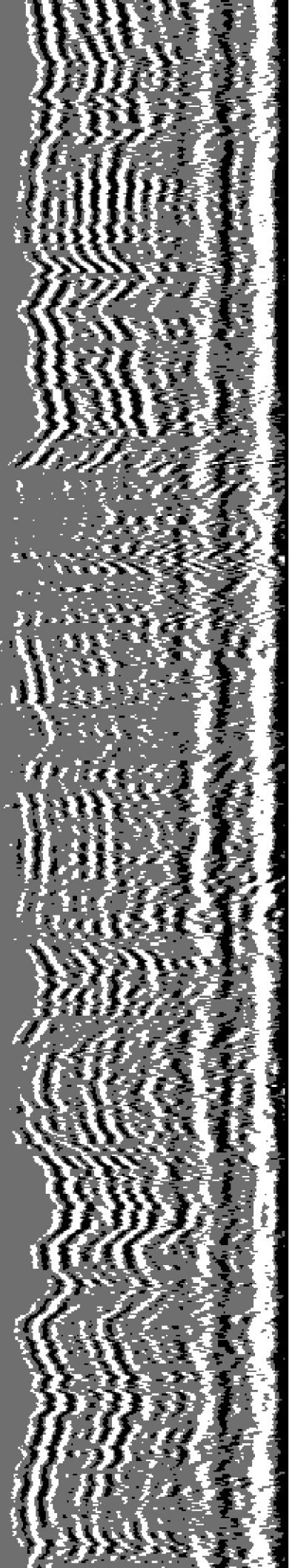


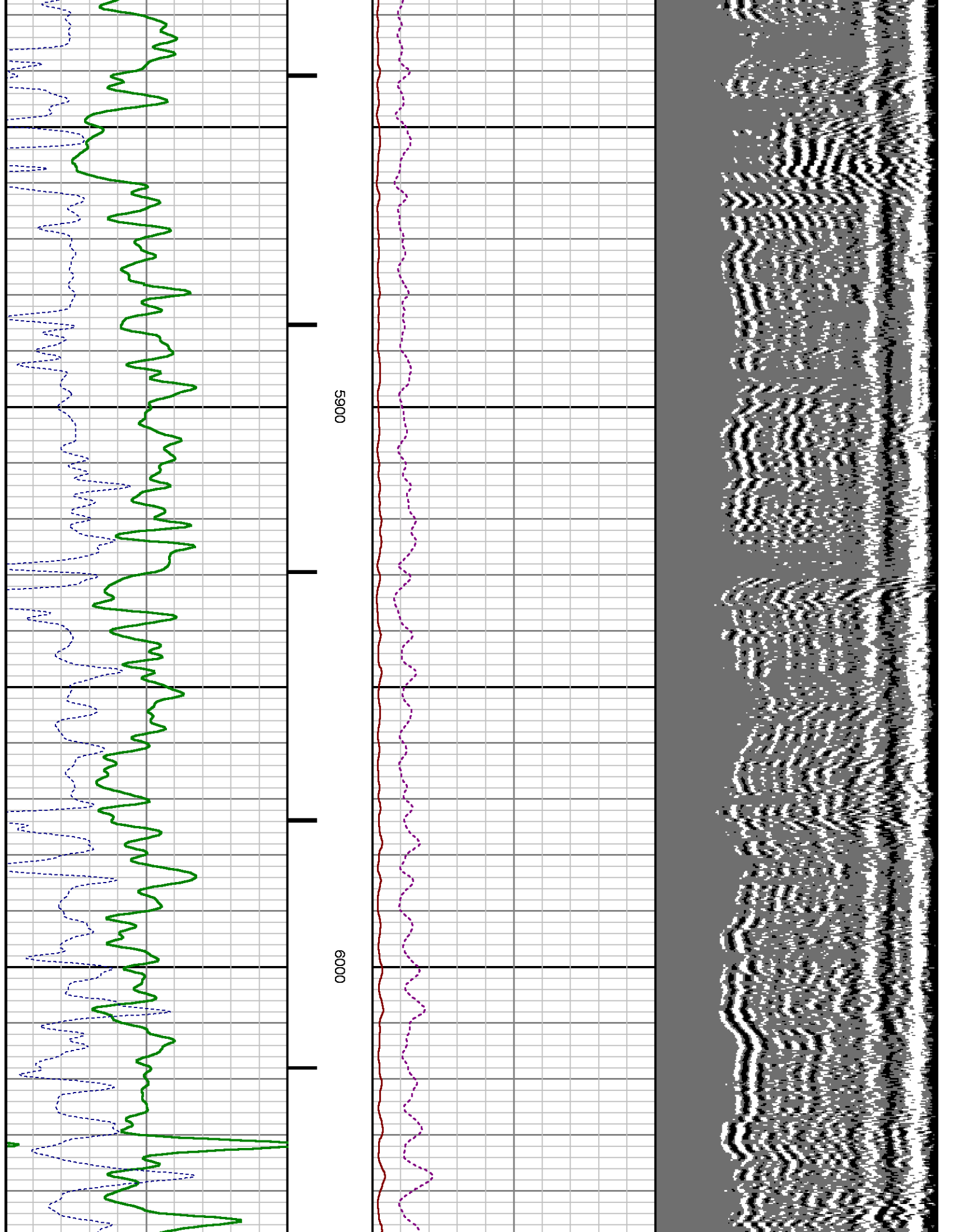


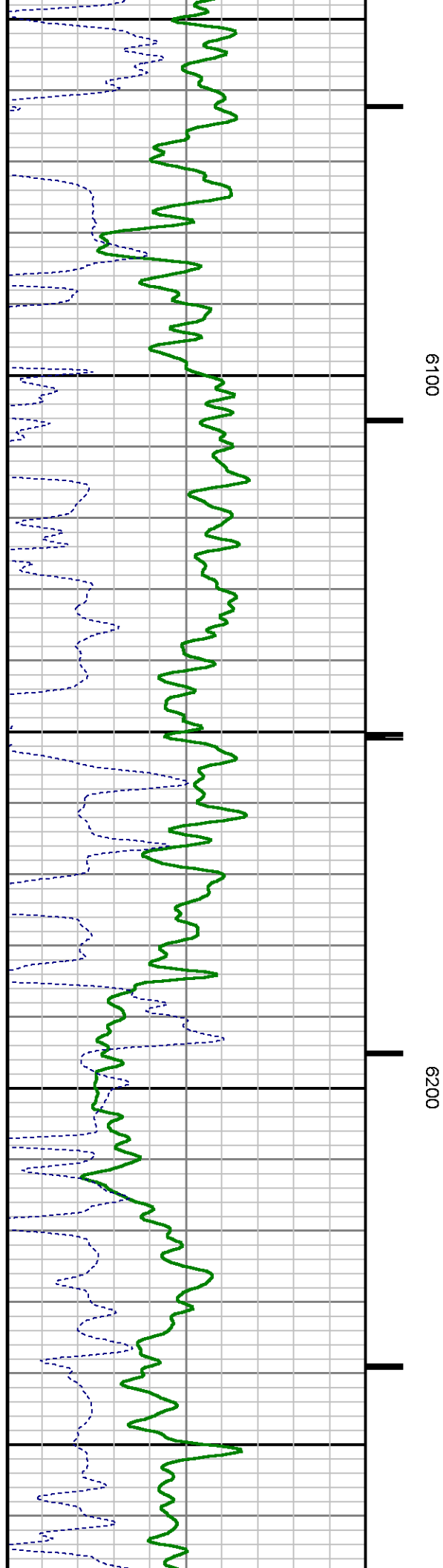
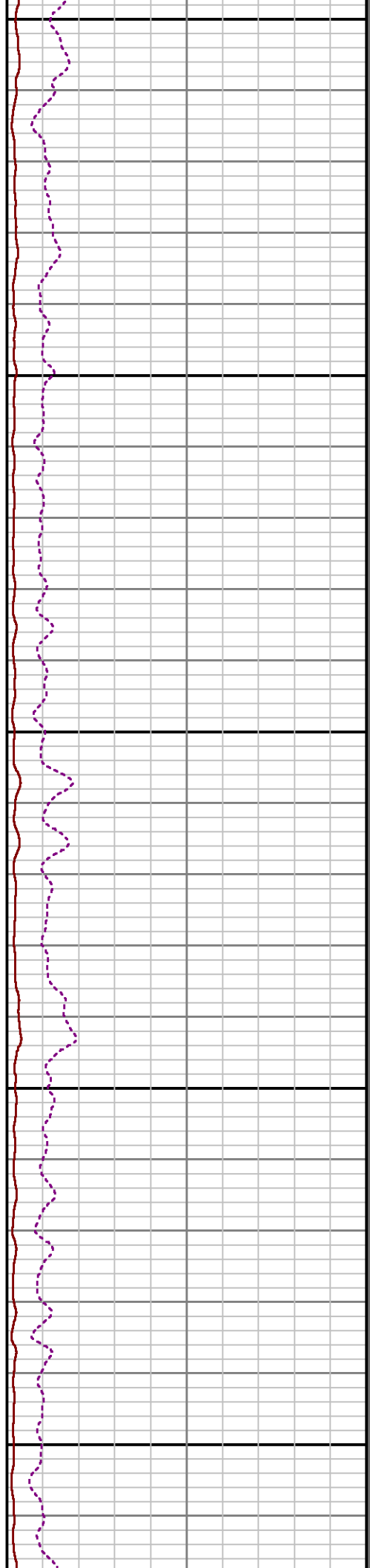
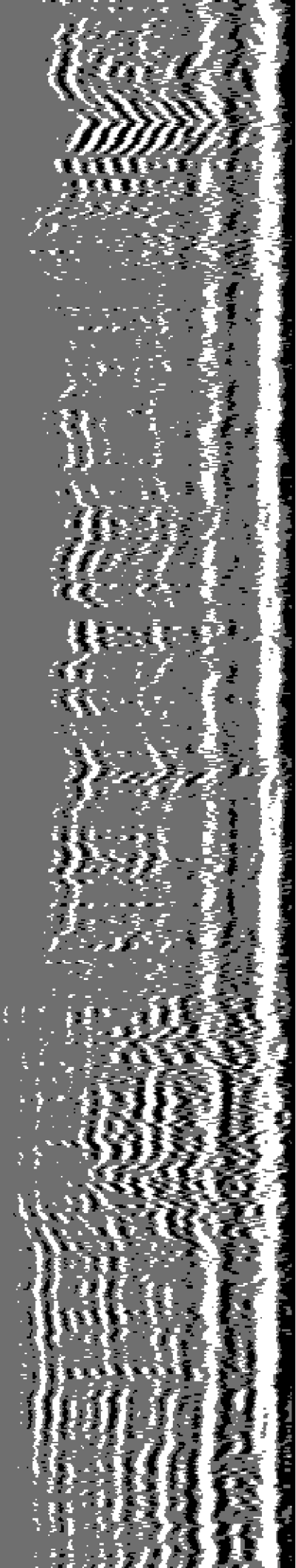


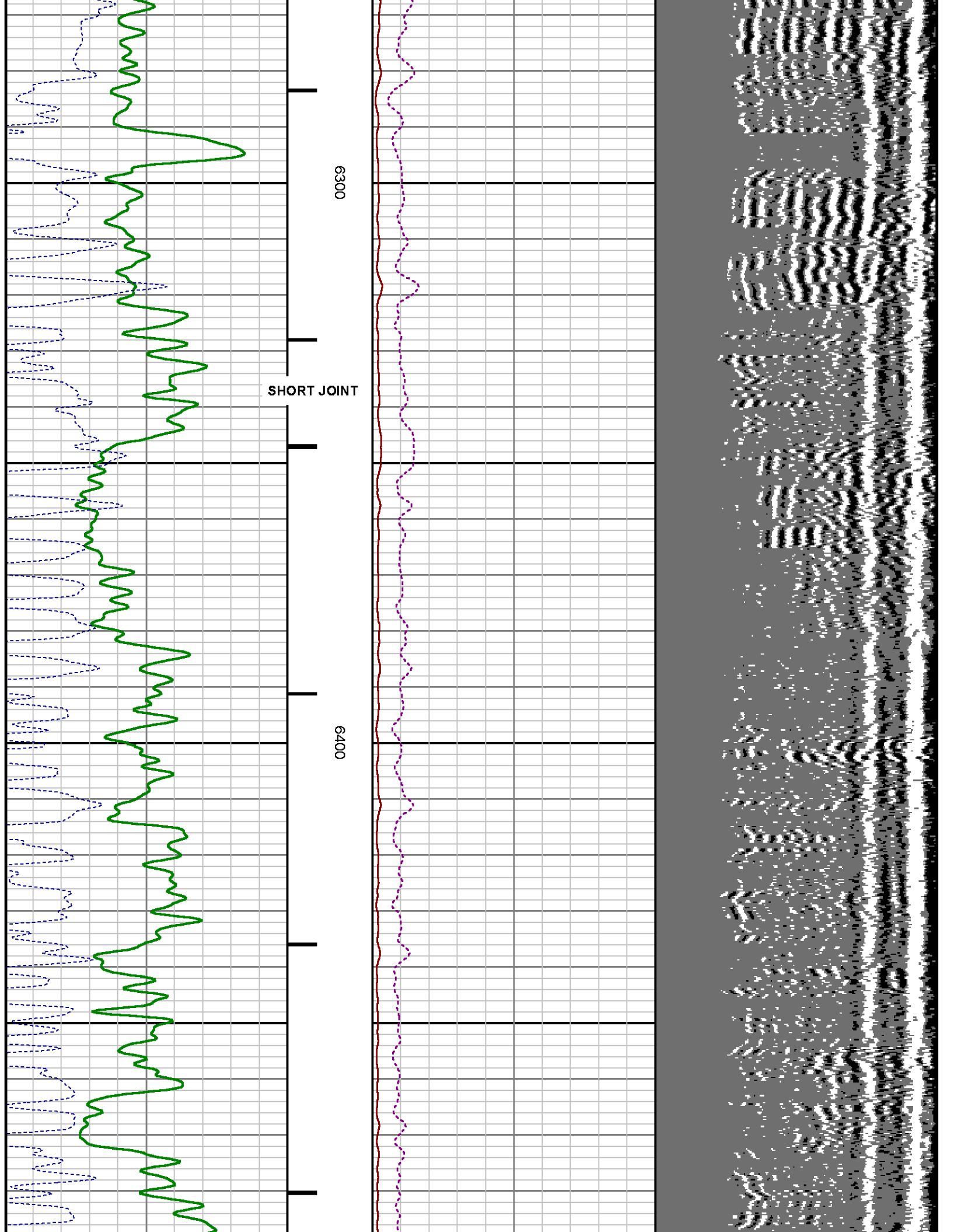


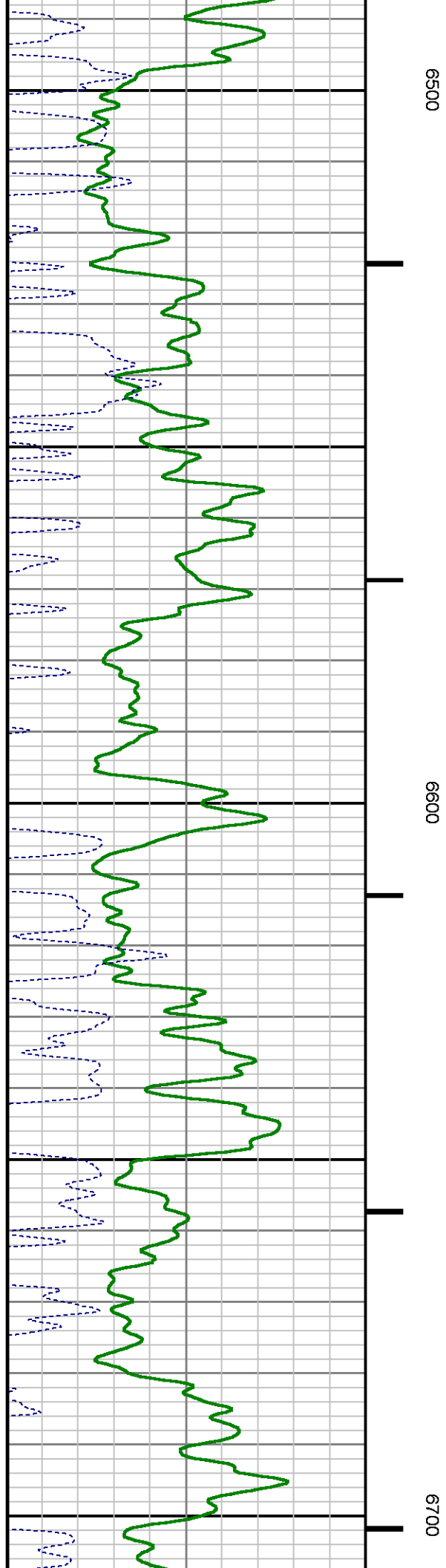
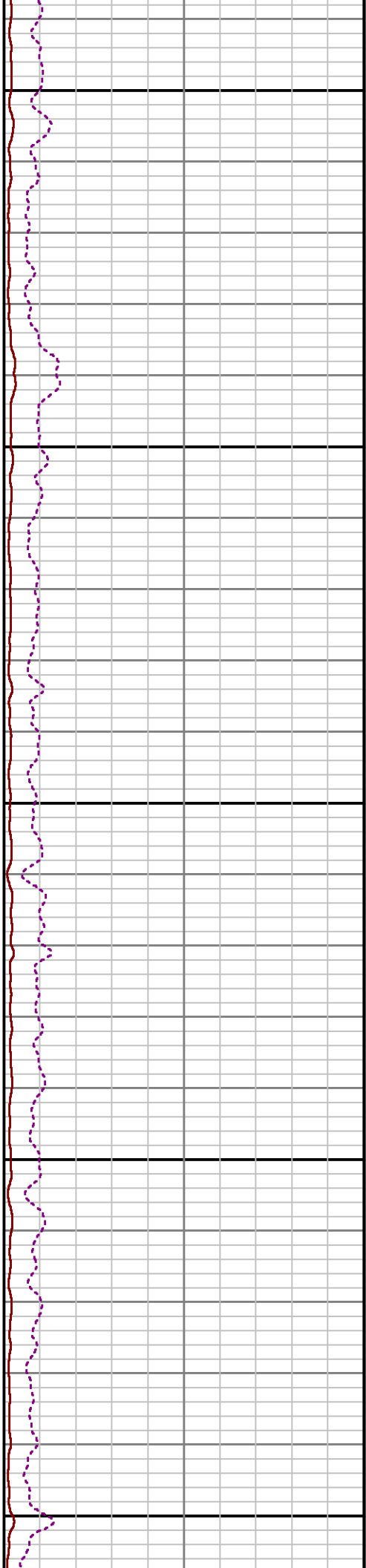
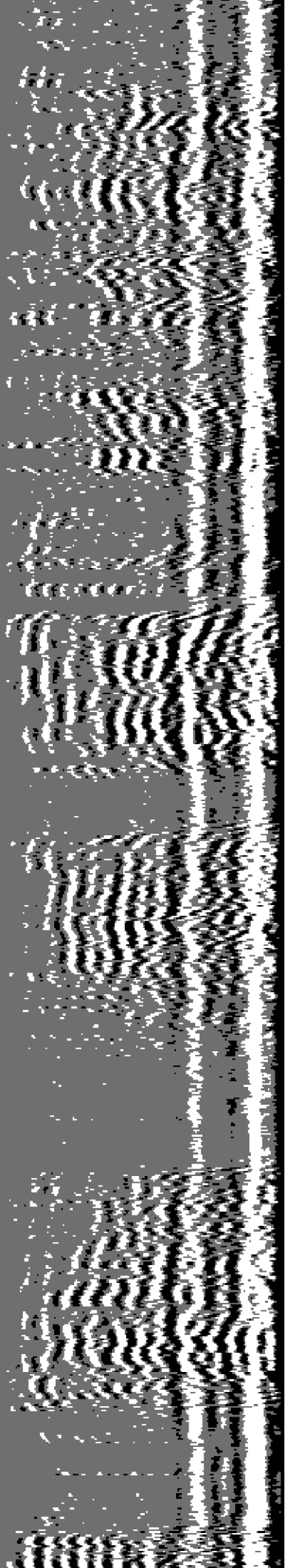


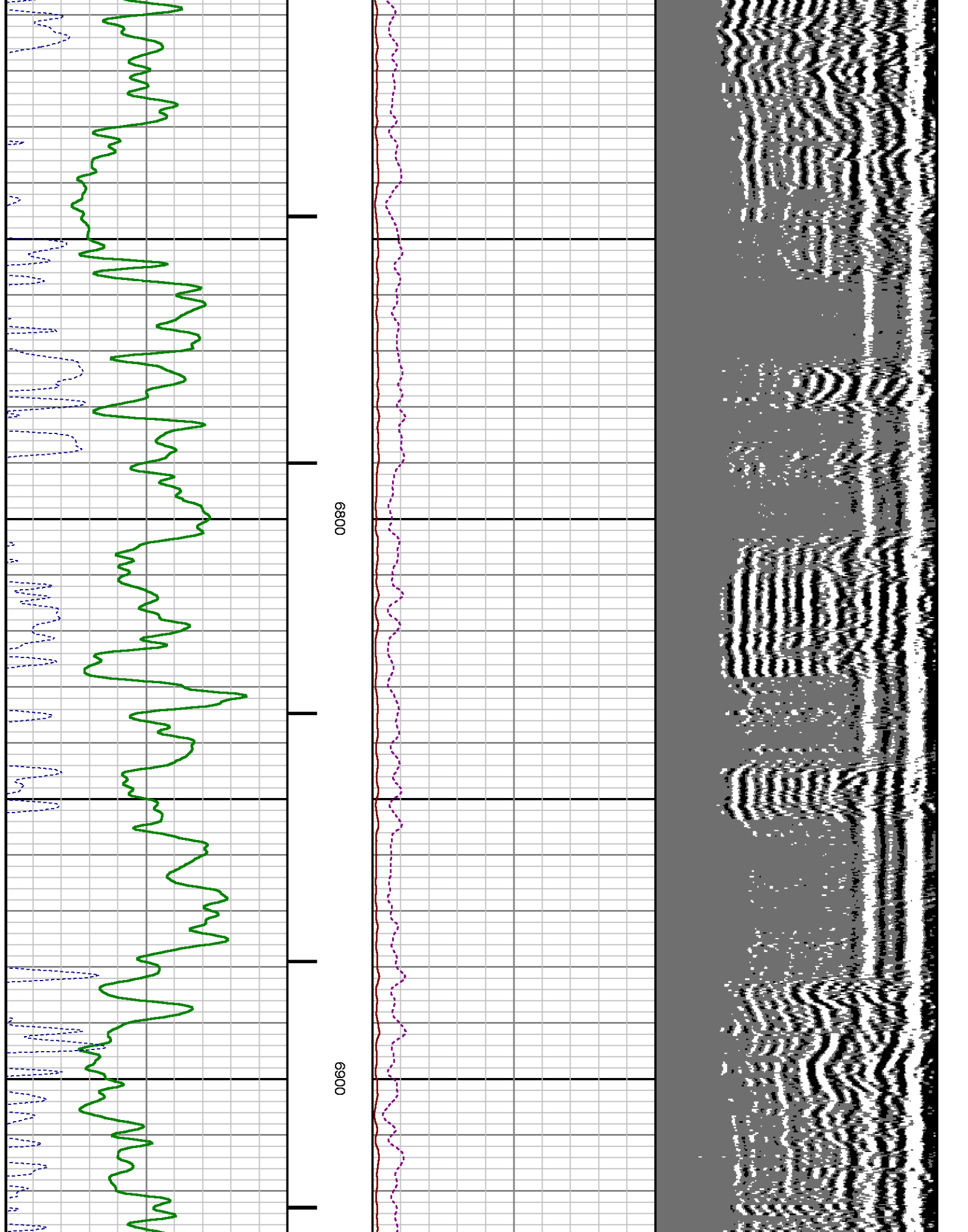


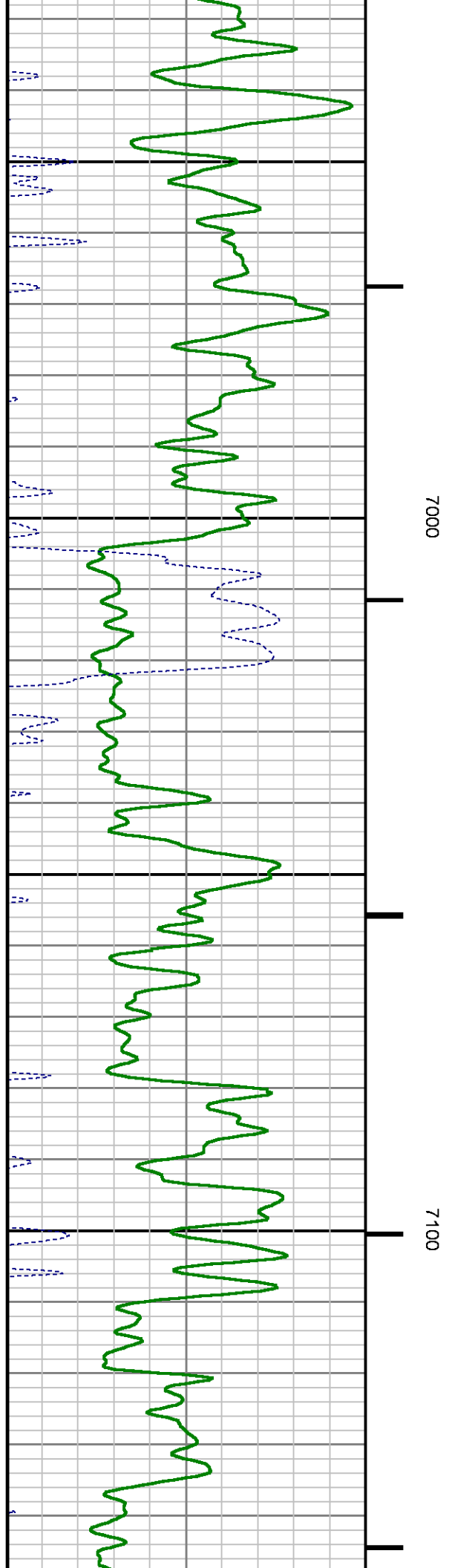
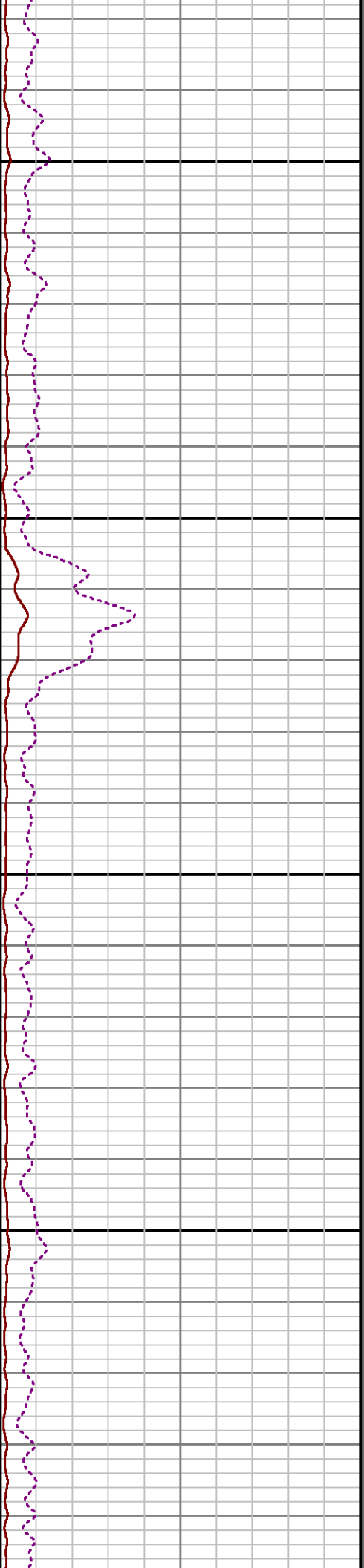
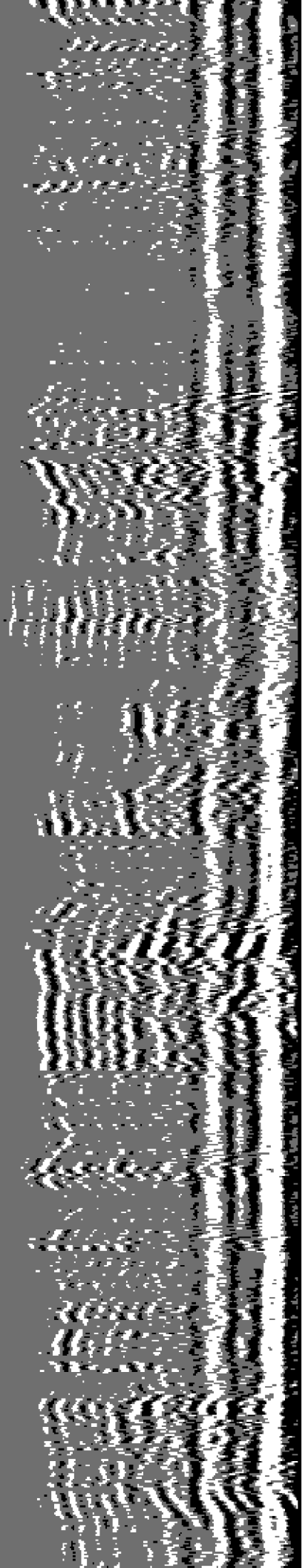


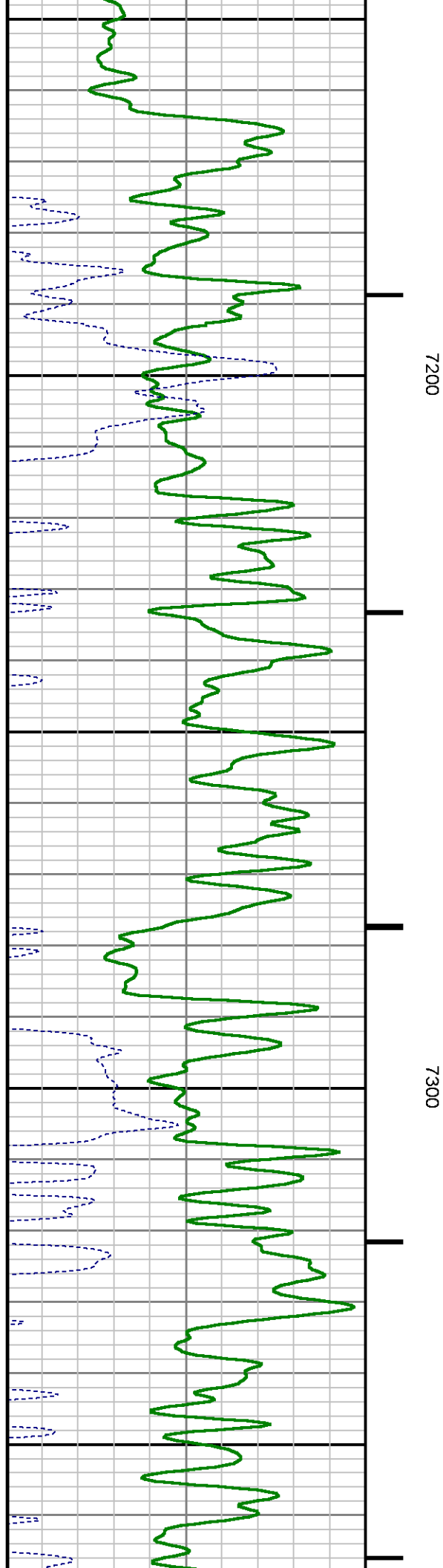
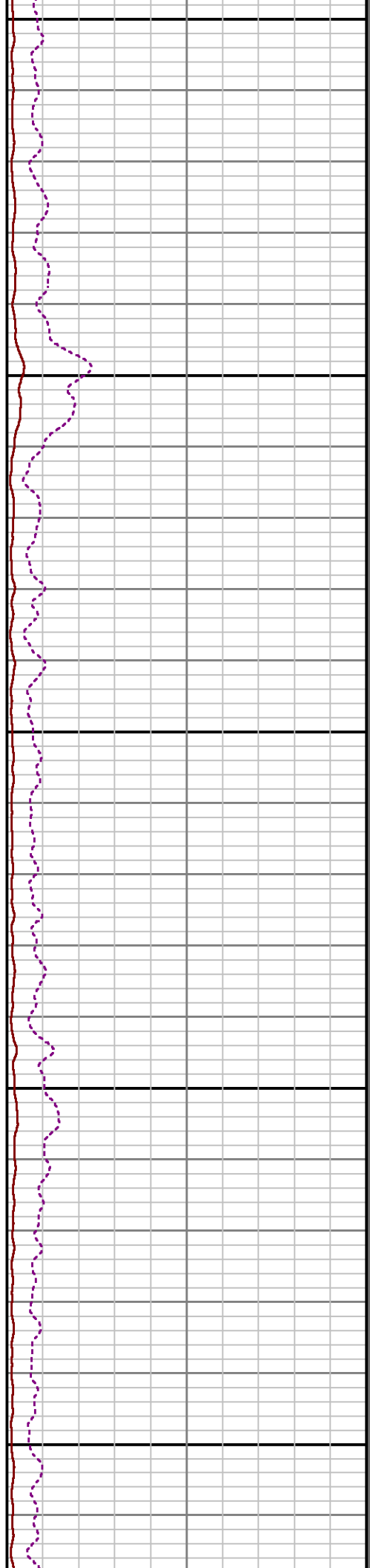
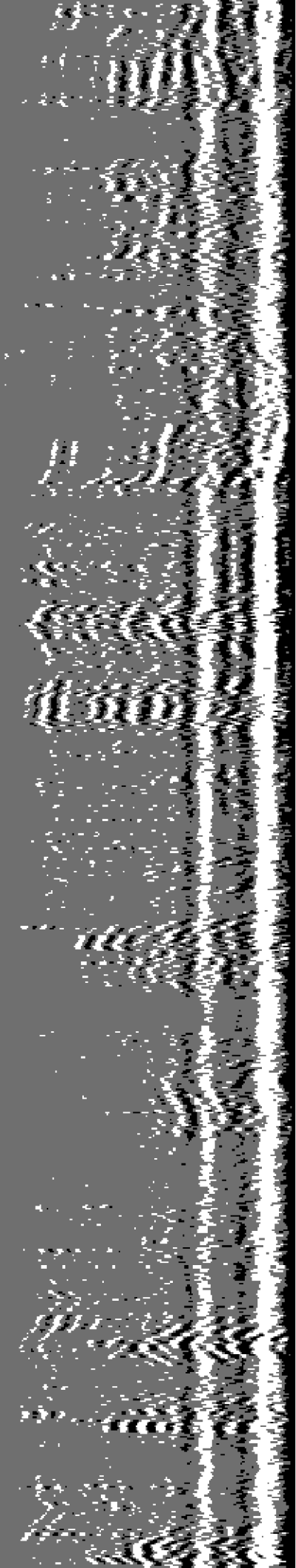


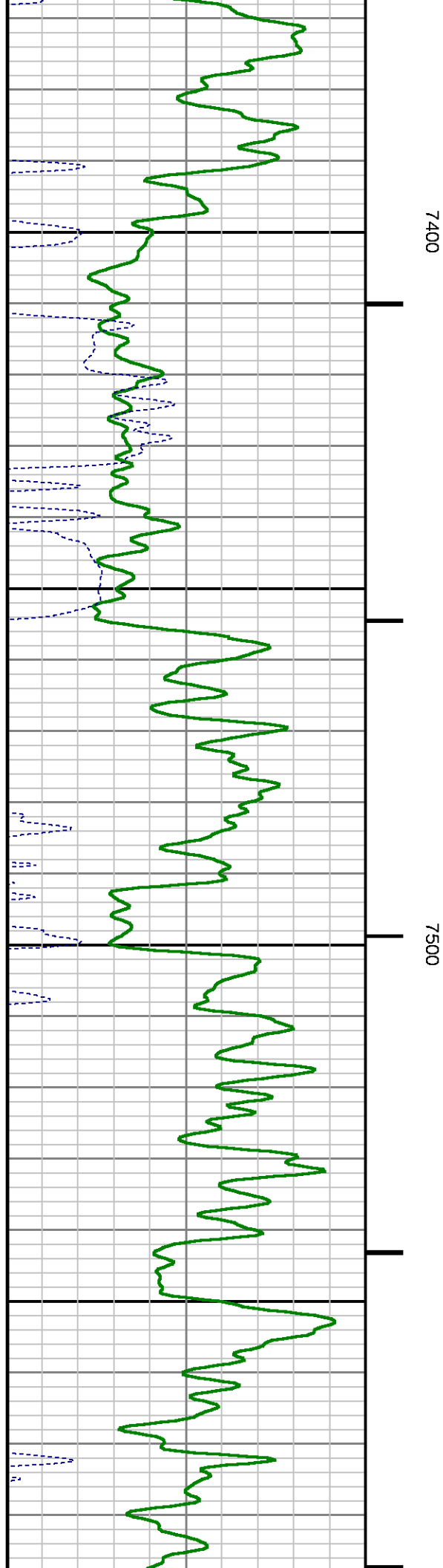
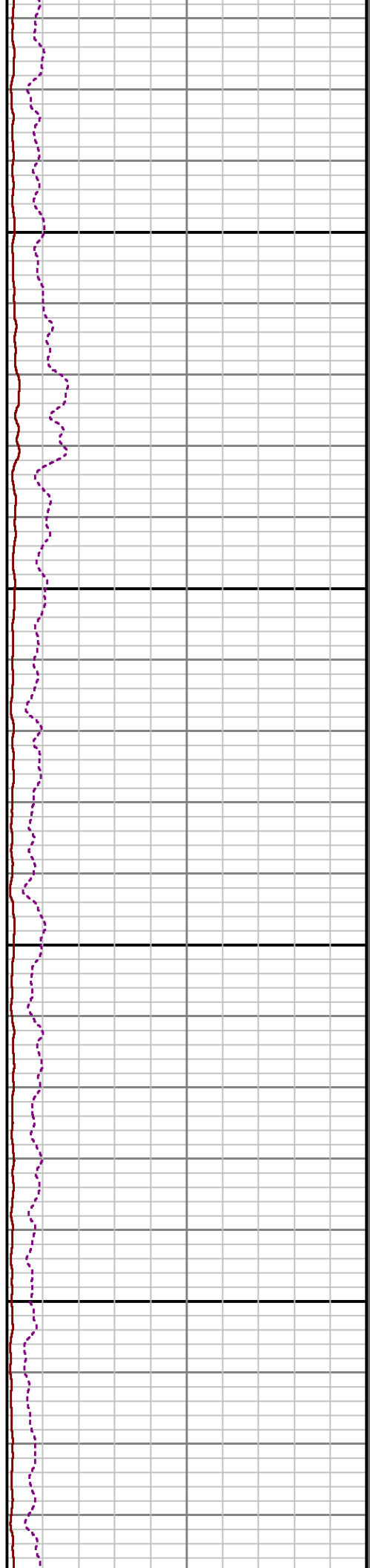
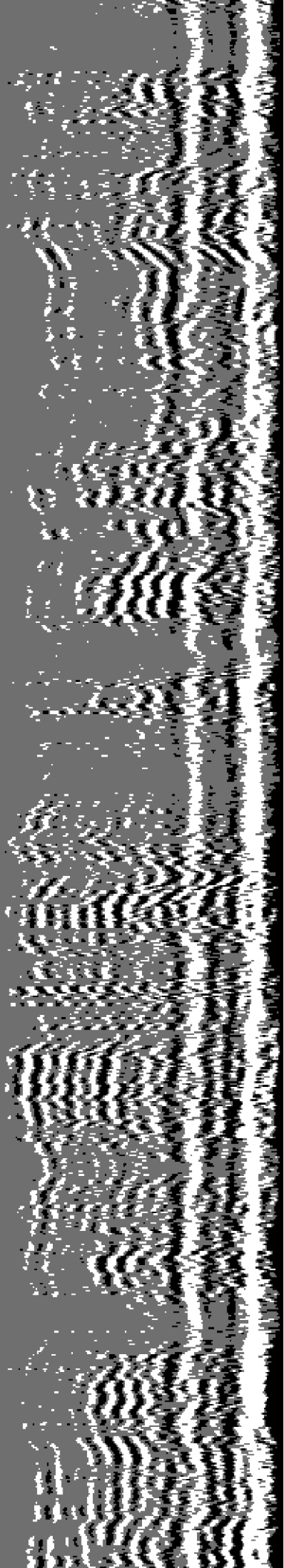


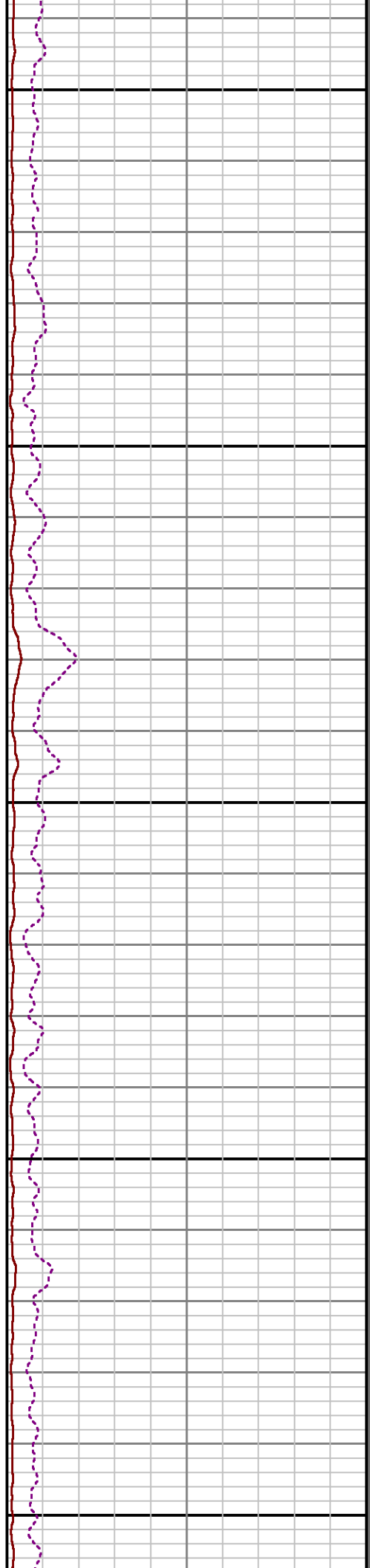
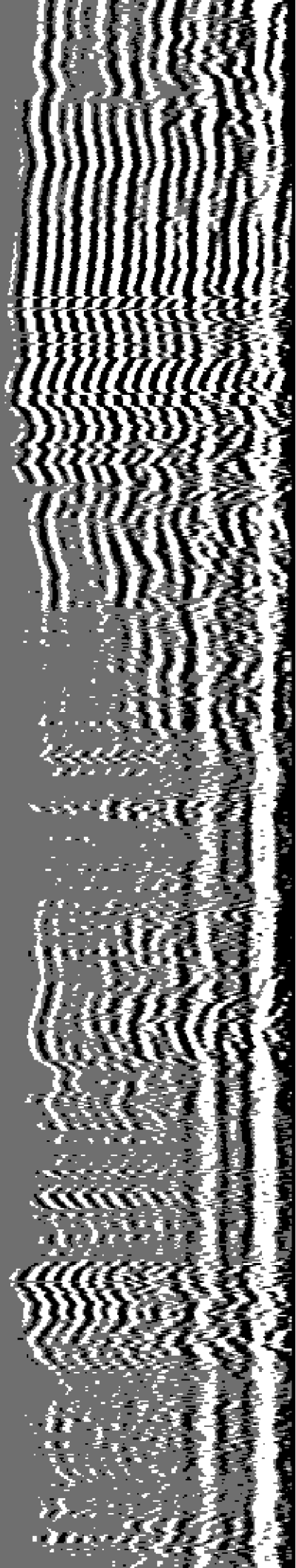








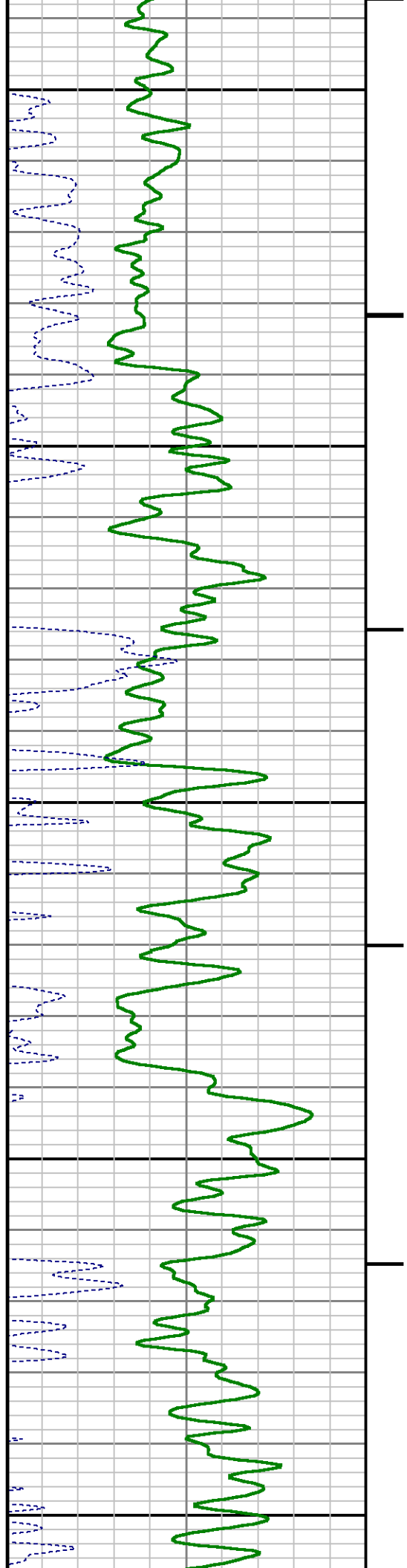


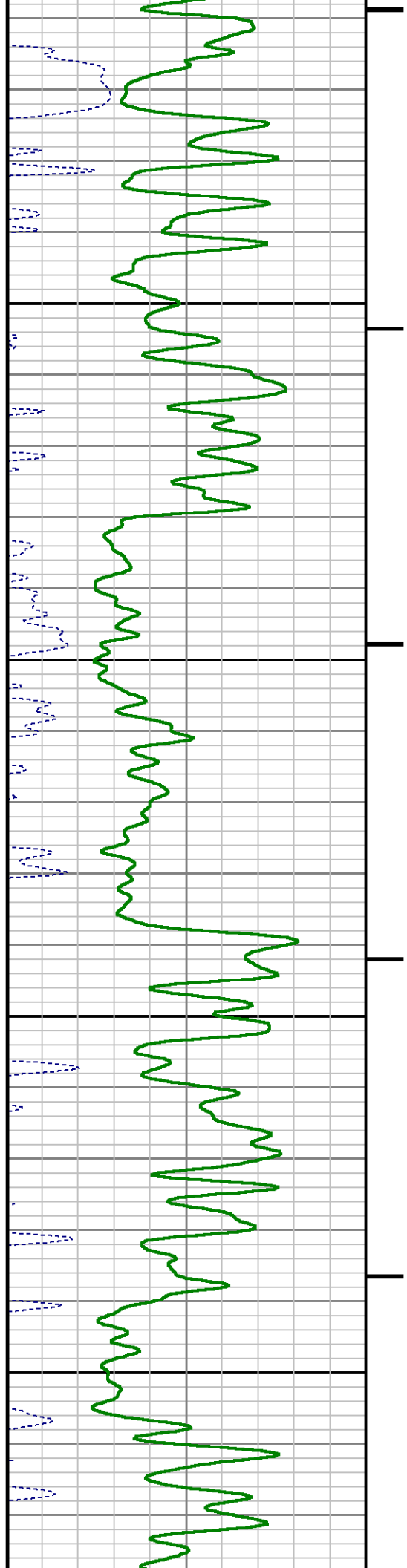
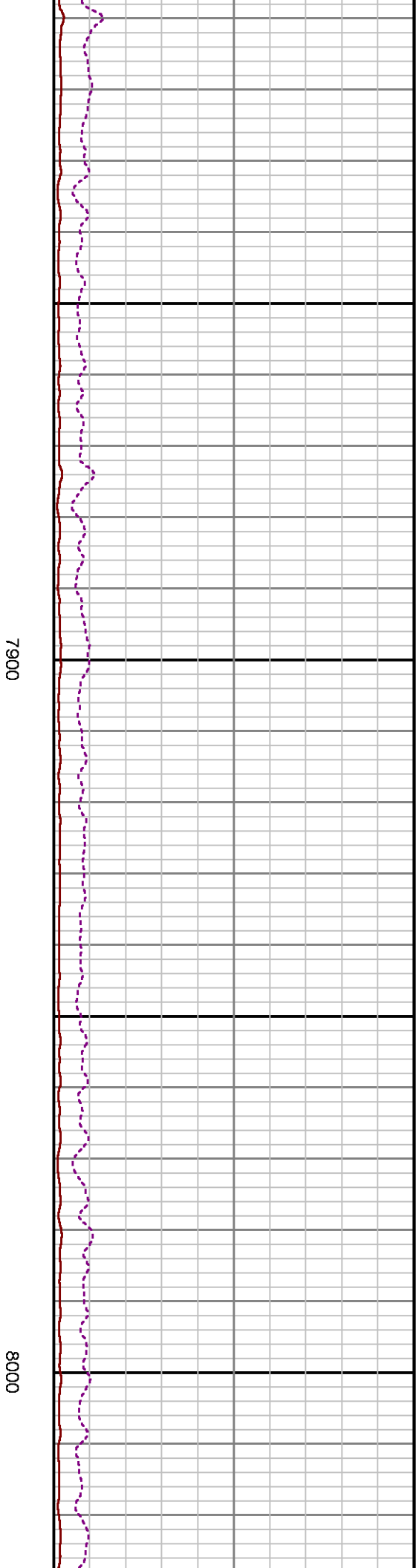
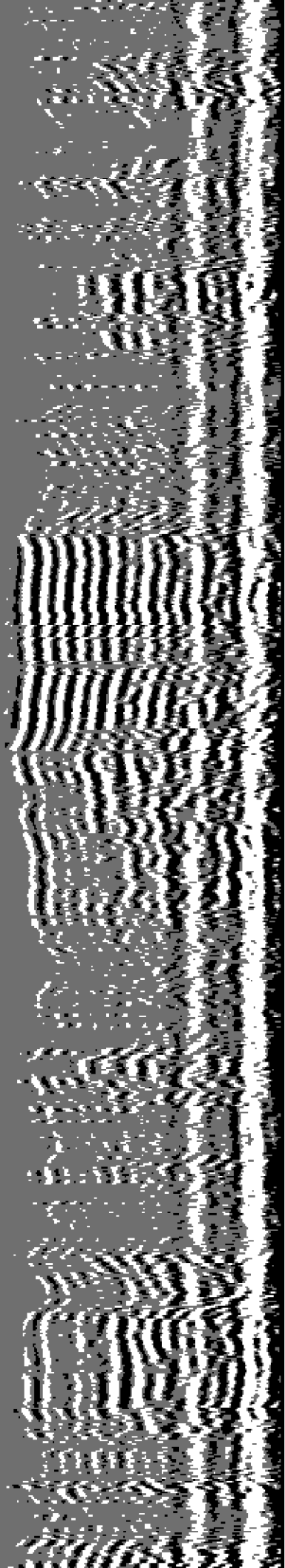


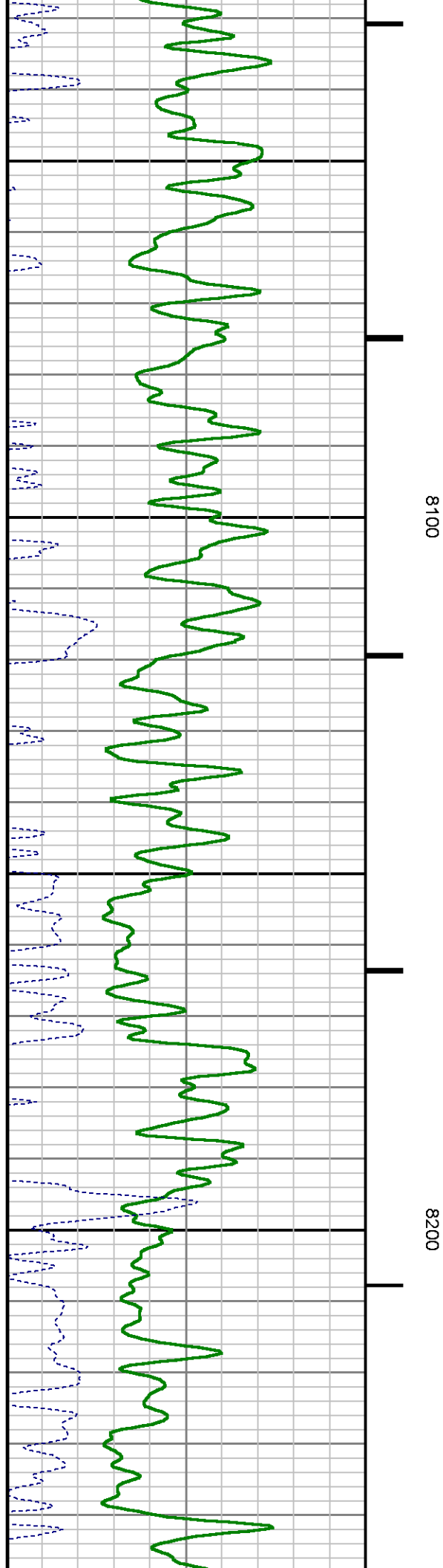
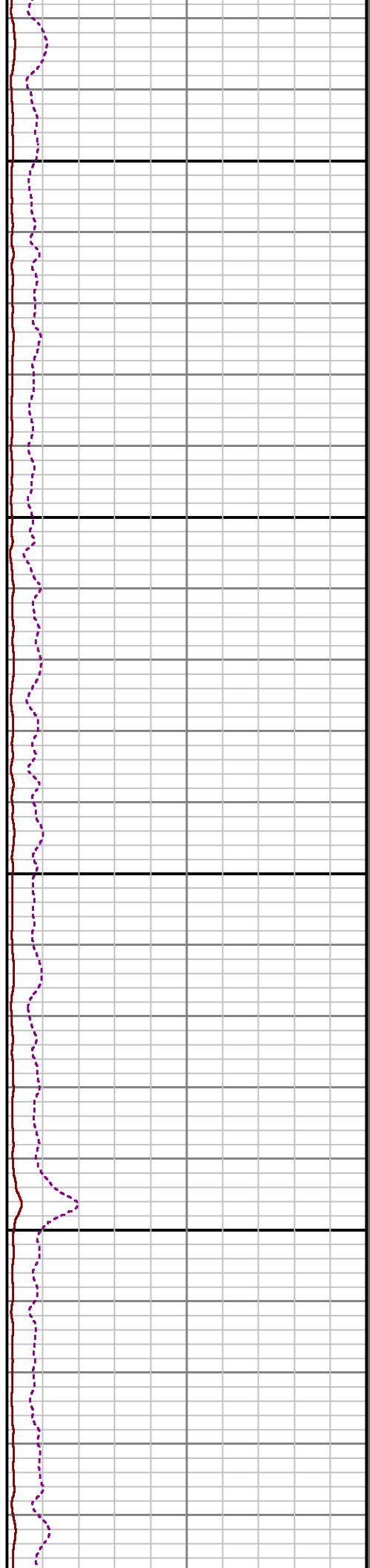
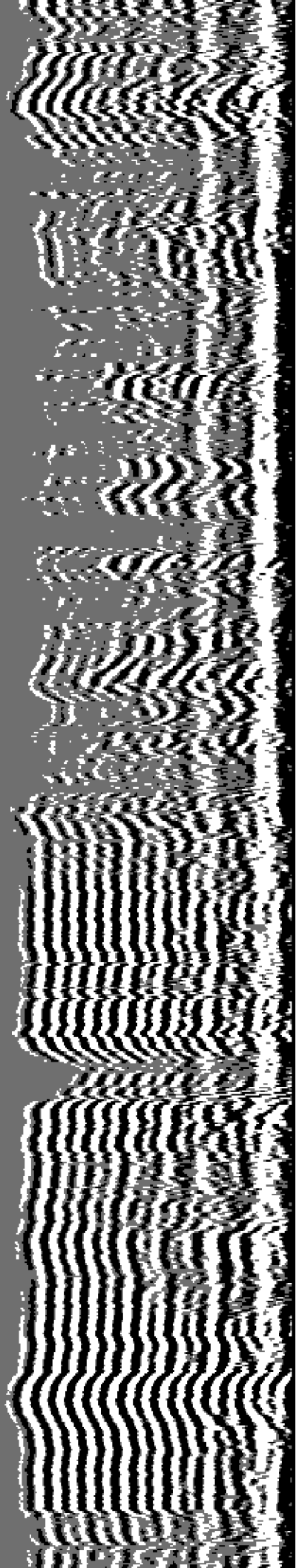
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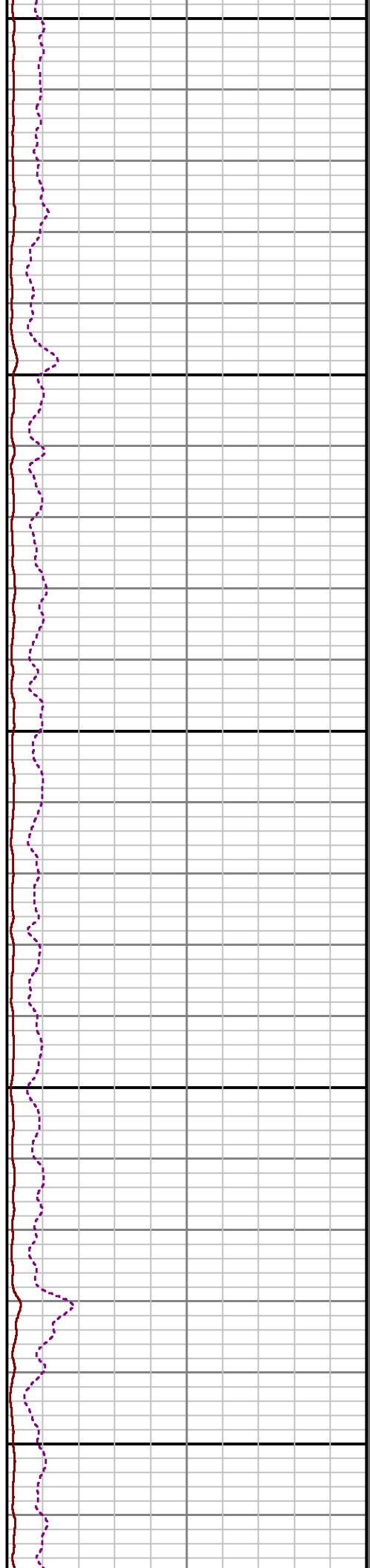
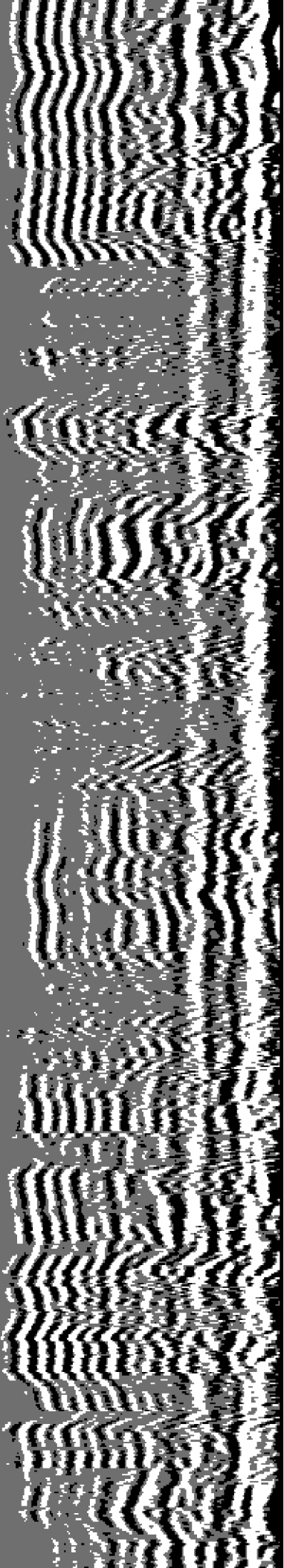
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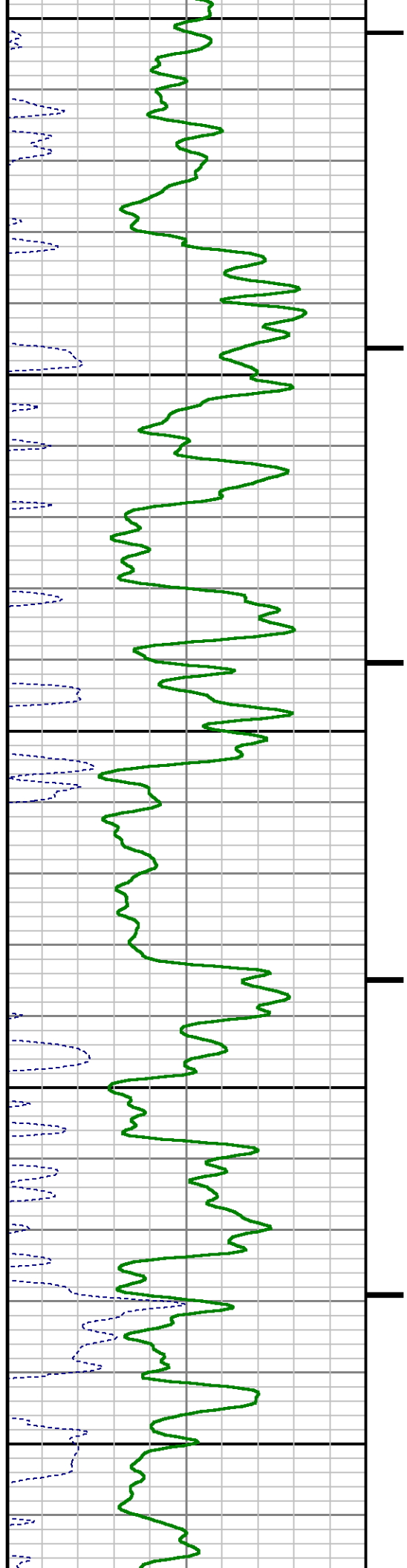


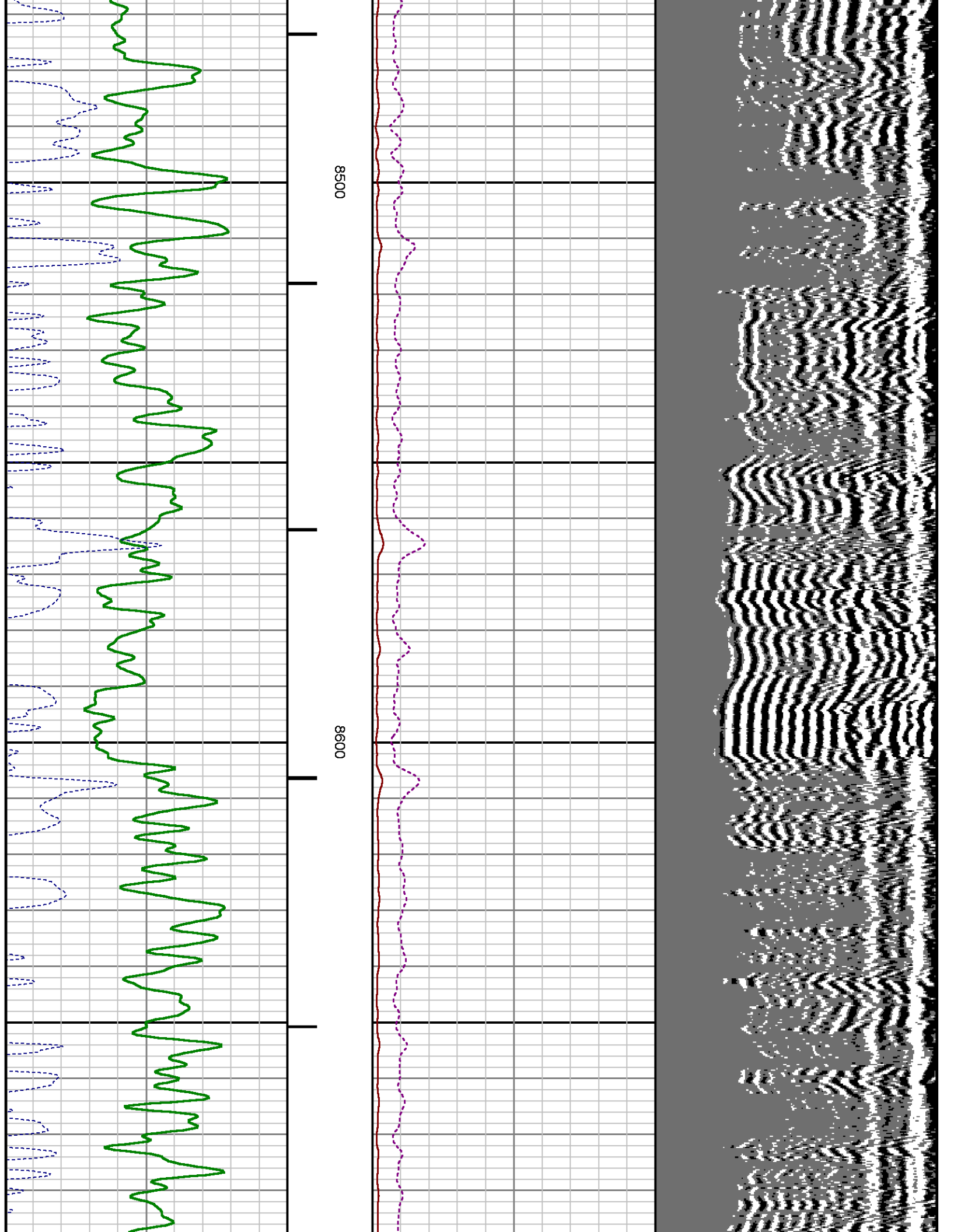


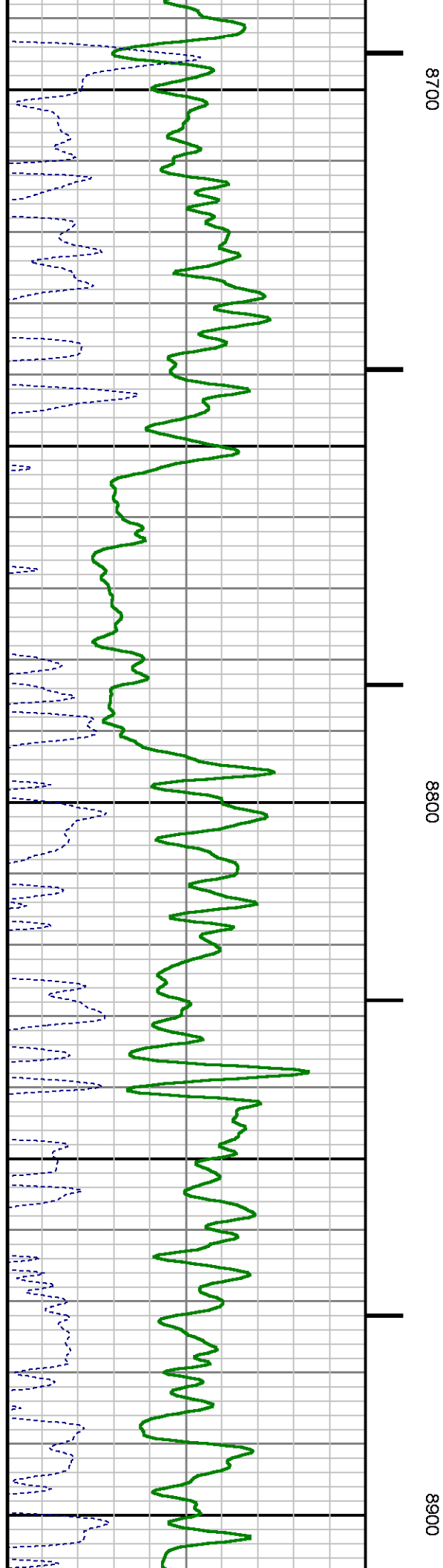
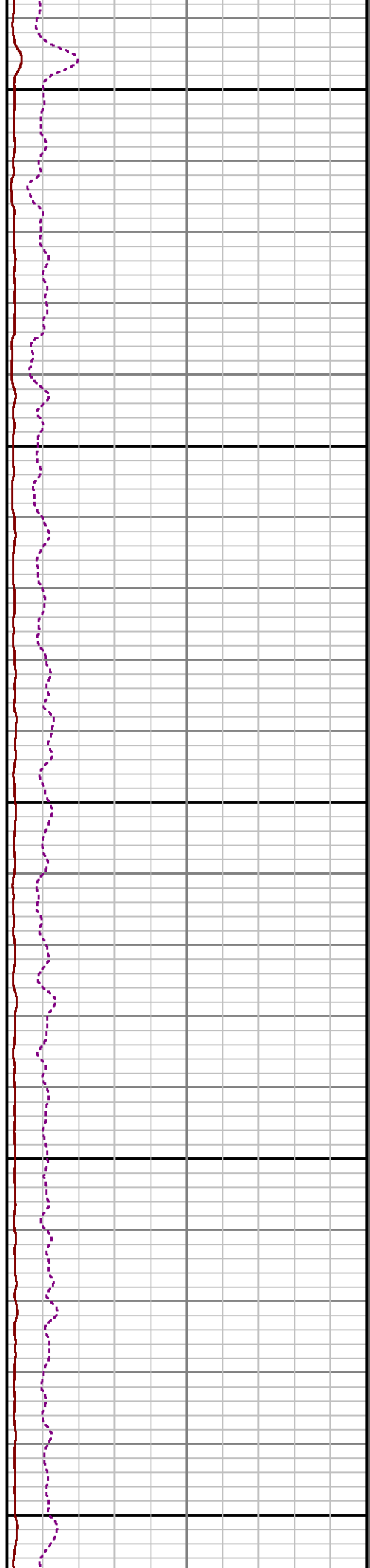
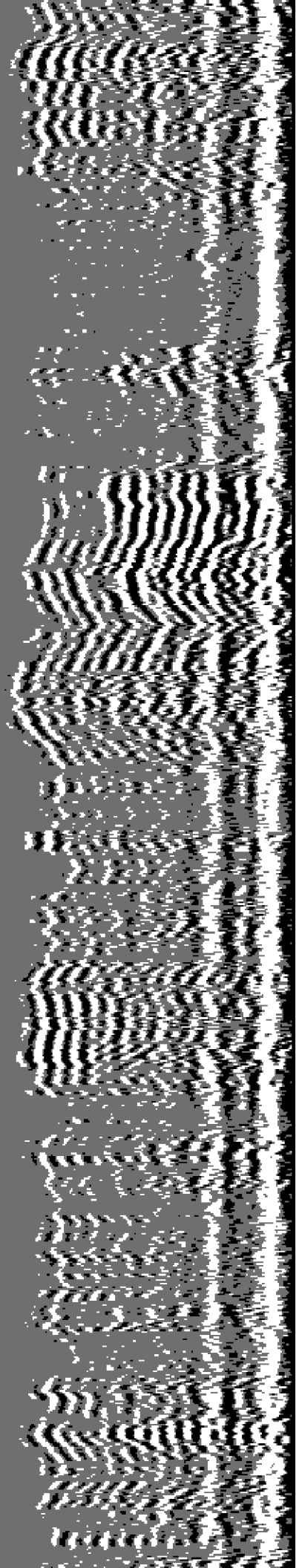


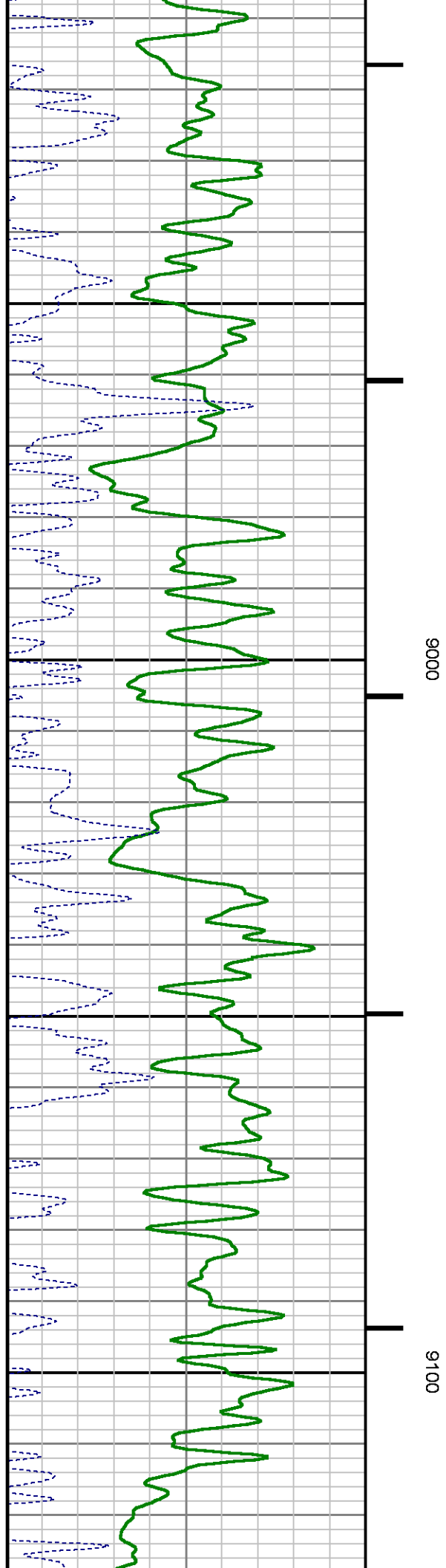
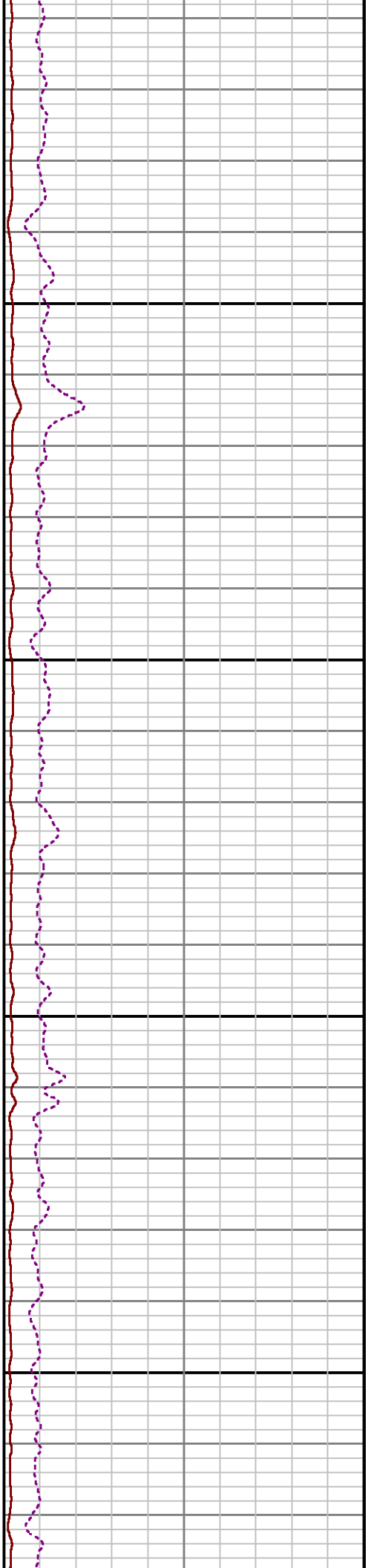
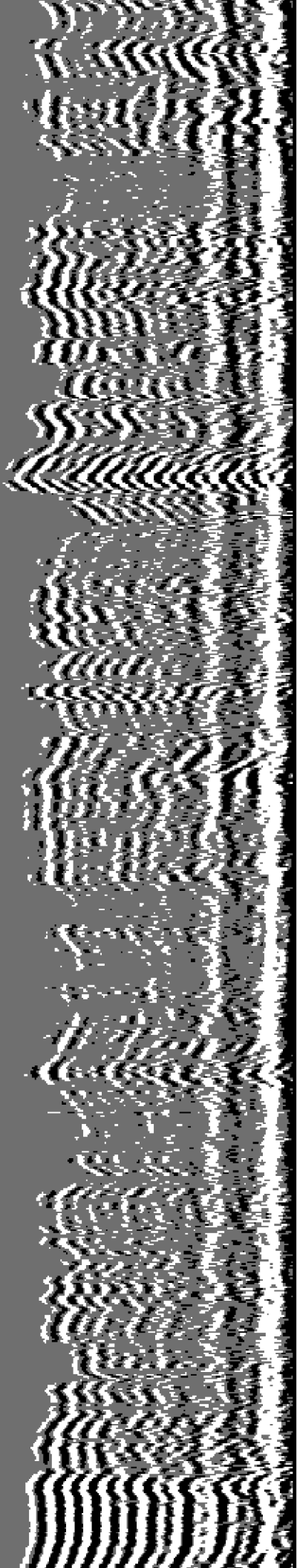
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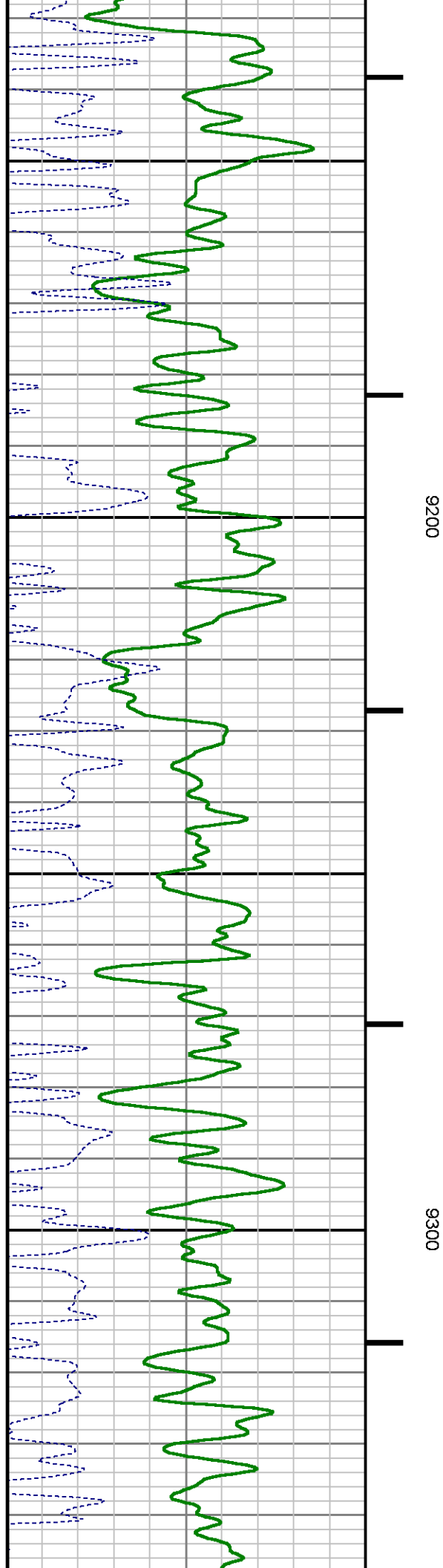
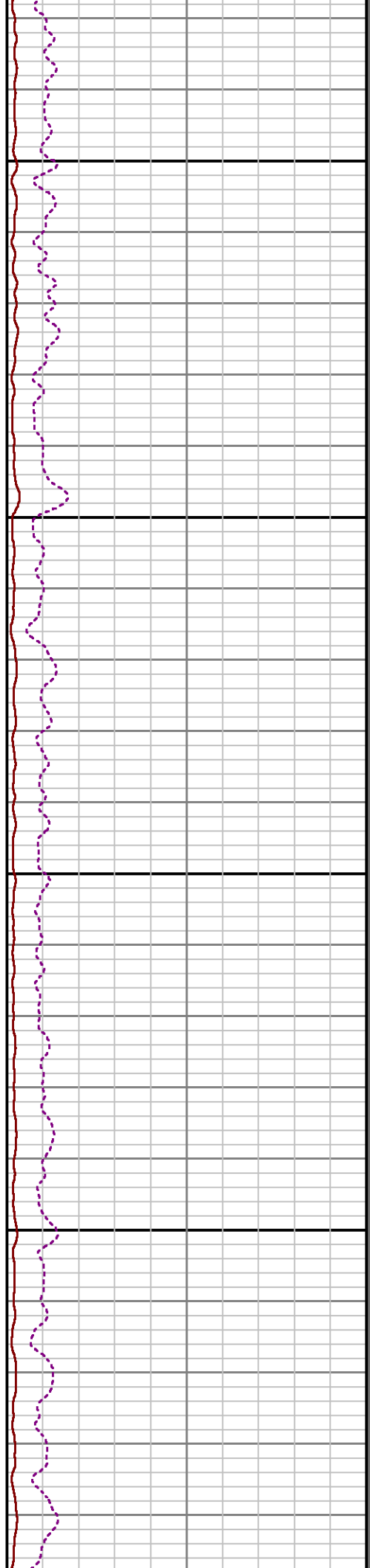
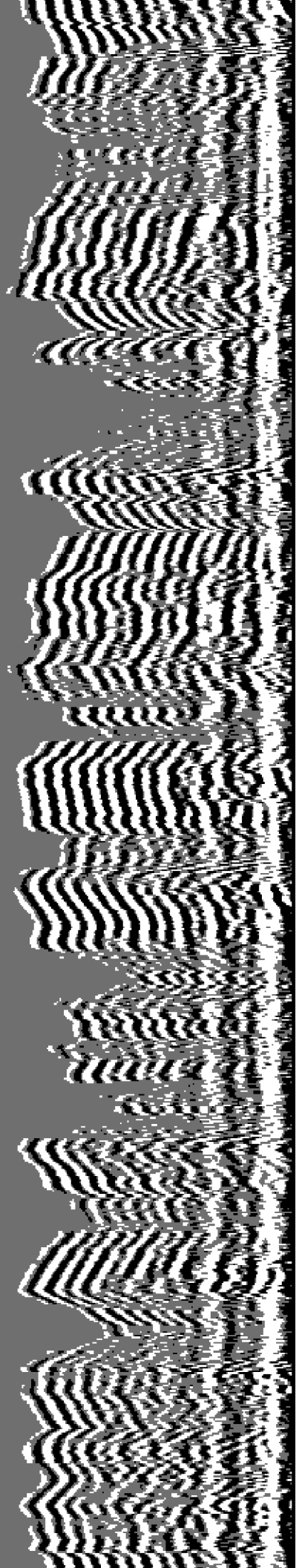
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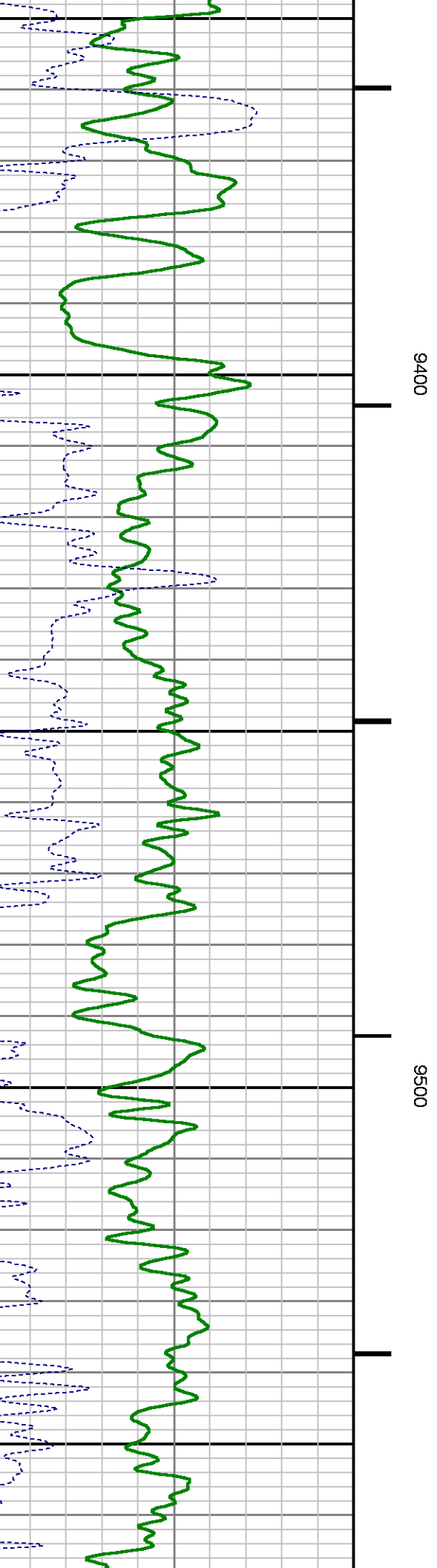
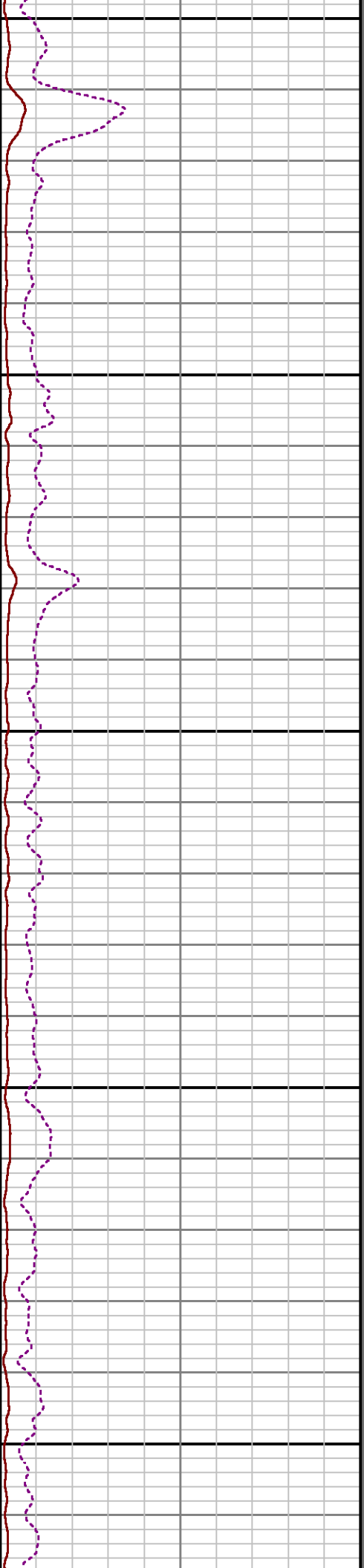
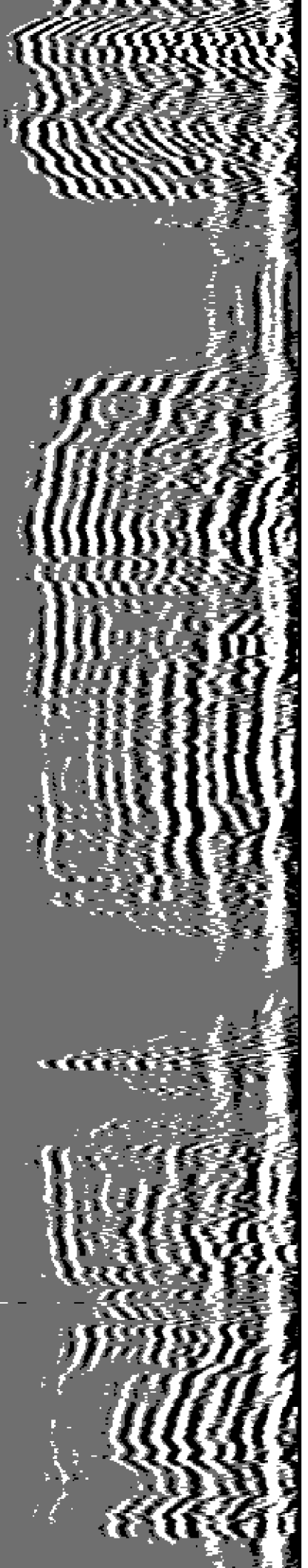


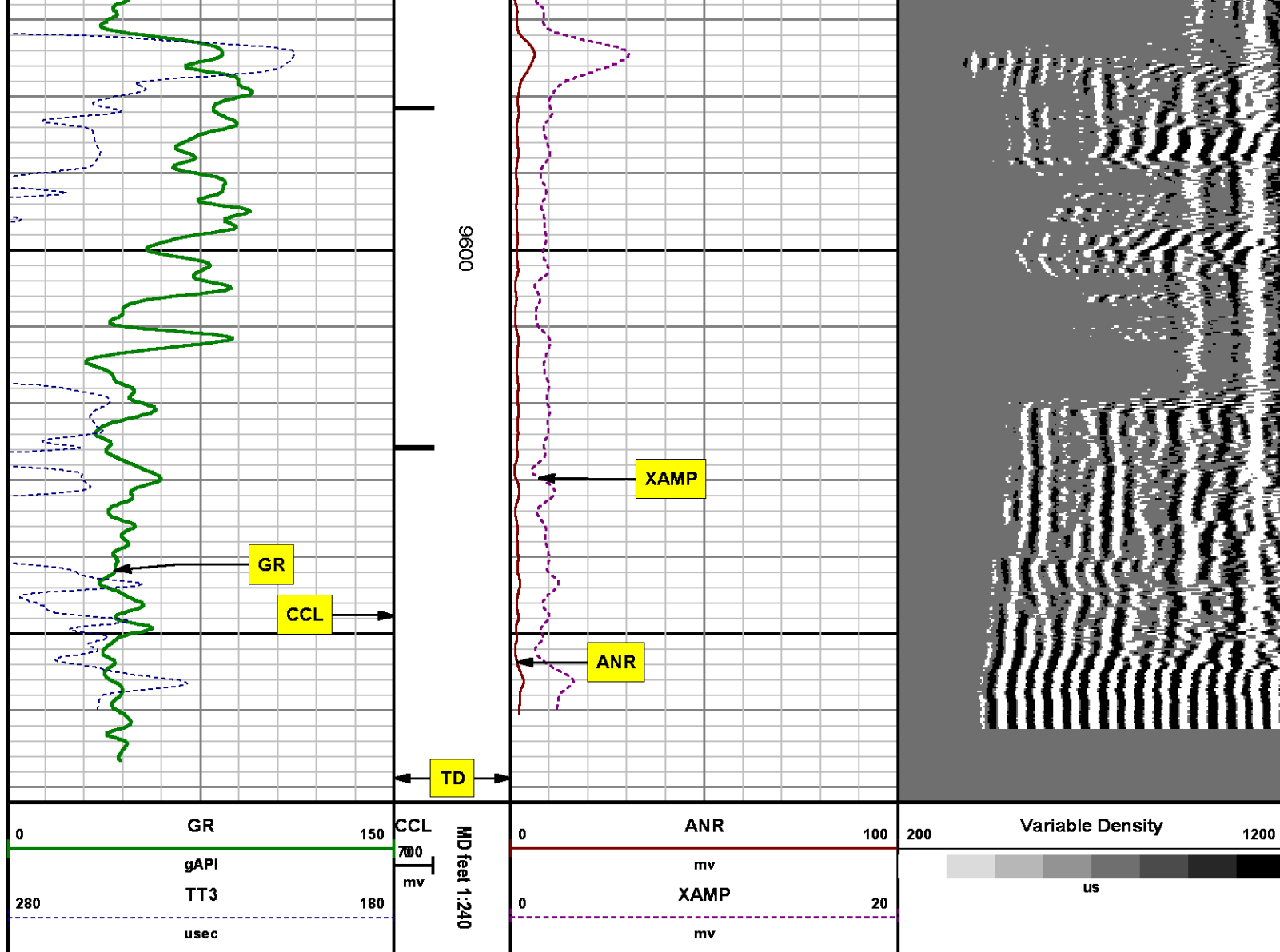












SECONDARY PRESENTATION O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	28.440	9657.000
RAL	Amp Gate Start Near	195.000	usec	28.440	9657.000
RAL	Amp Gate Start Radial	195.000	usec	28.440	9657.000
RAL	Amp Gate Width Far	25.000	usec	28.440	9657.000
RAL	Amp Gate Width Near	25.000	usec	28.440	9657.000

RAL	Amp Gate Width Radial	25.000	usec	28.440	9657.000
RAL	casing od	4.500	inches	28.440	9657.000
RAL	casing wt	11.600	lbm/ft	28.440	9657.000
RAL	FB Start Far	291.900	usec	28.440	9657.000
RAL	FB Start Near	175.391	usec	28.440	9657.000
RAL	FB Start Radial	175.391	usec	28.440	9657.000
RAL	FB Thresh Far	10.000	mv	28.440	9657.000
RAL	FB Thresh Near	4.000	mv	28.440	9657.000
RAL	FB Thresh Radial	4.000	mv	28.440	9657.000
RAL	Fluid Travel Time	200.000	usec/ft	28.440	9657.378

DEPTH OFFSETS

(for Acquired Curves)

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

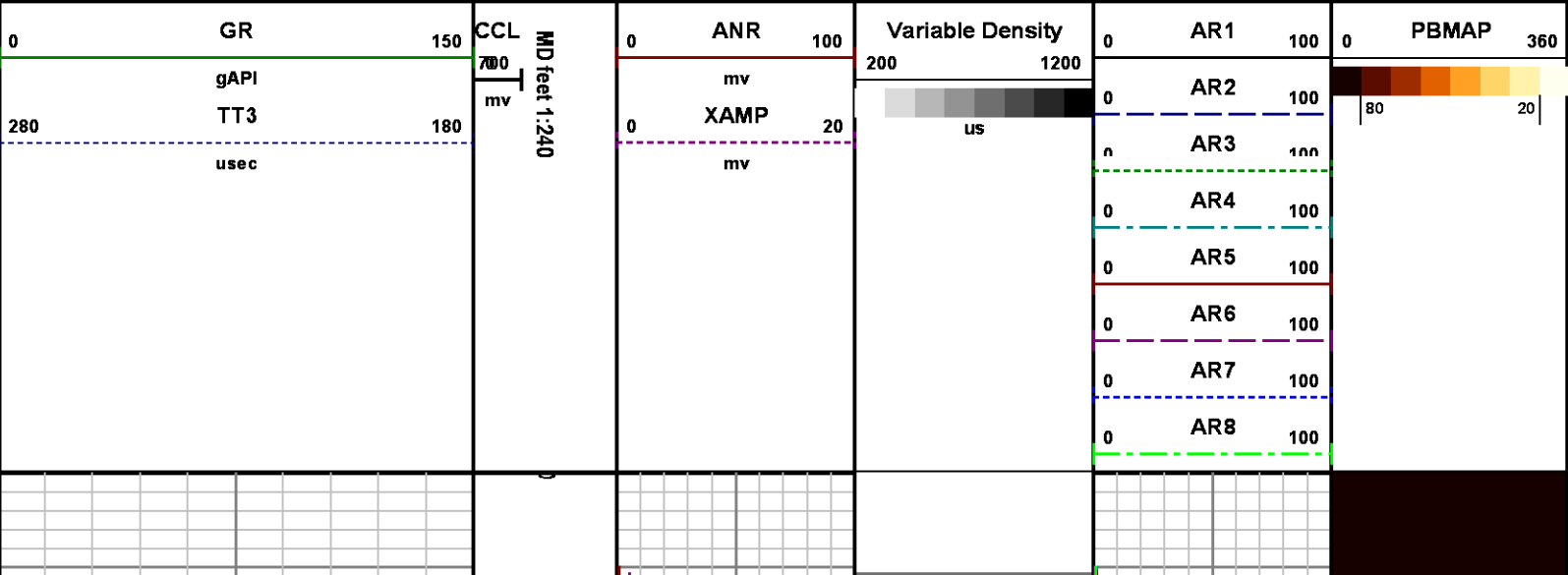
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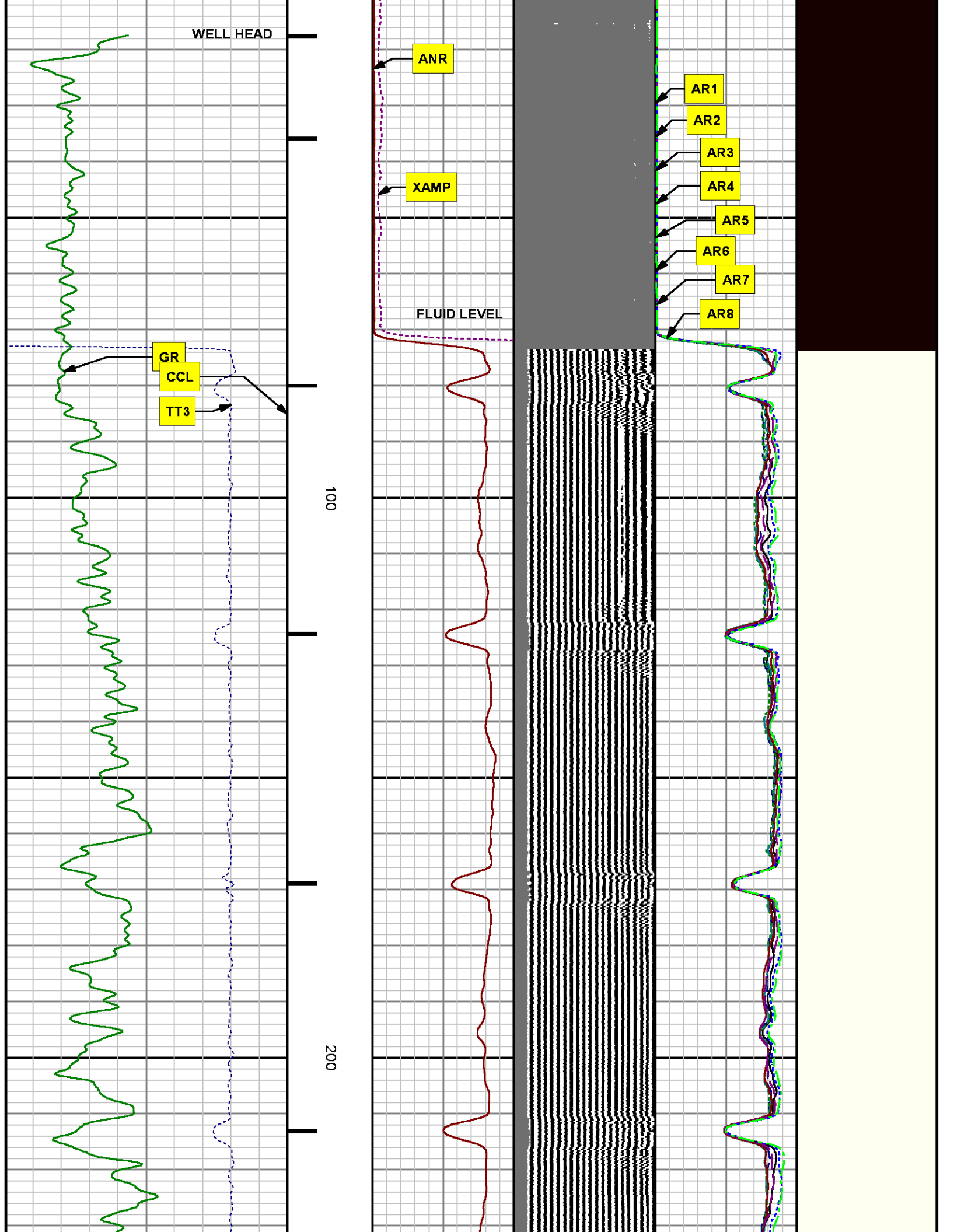
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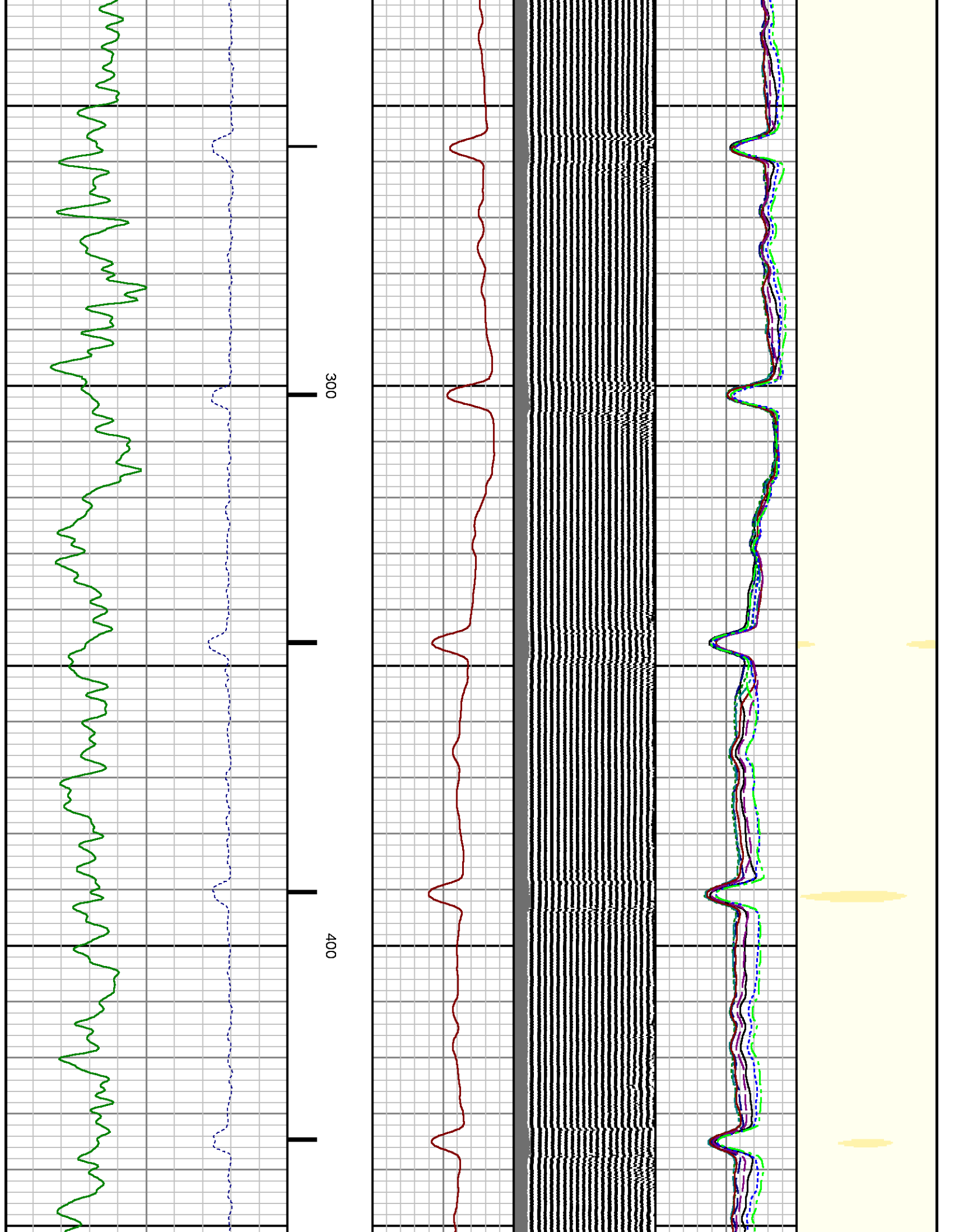
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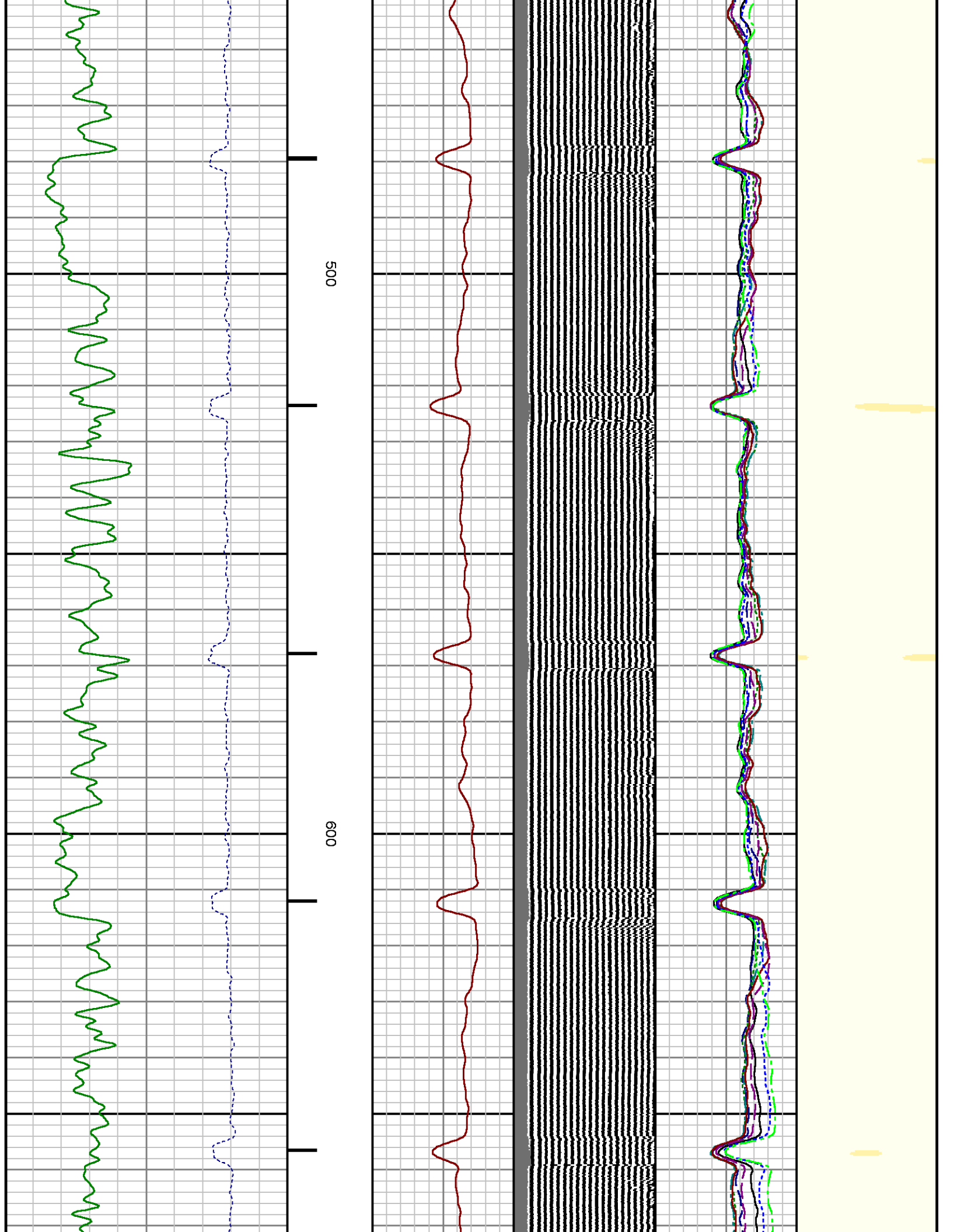
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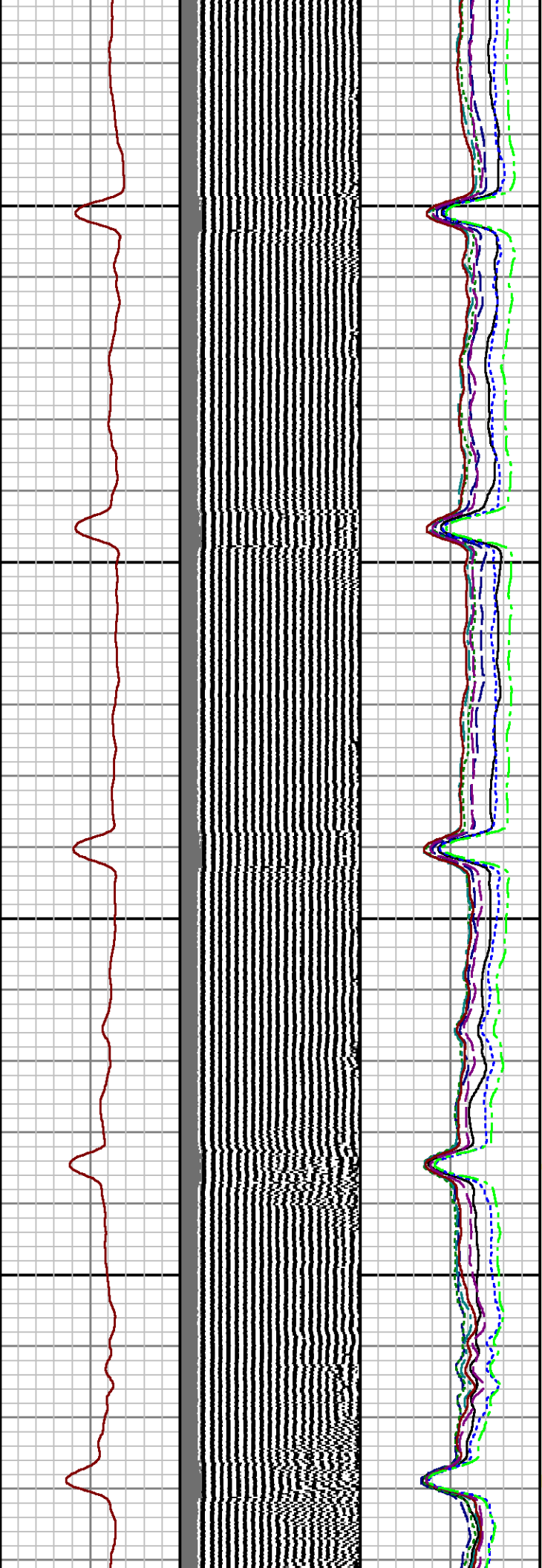
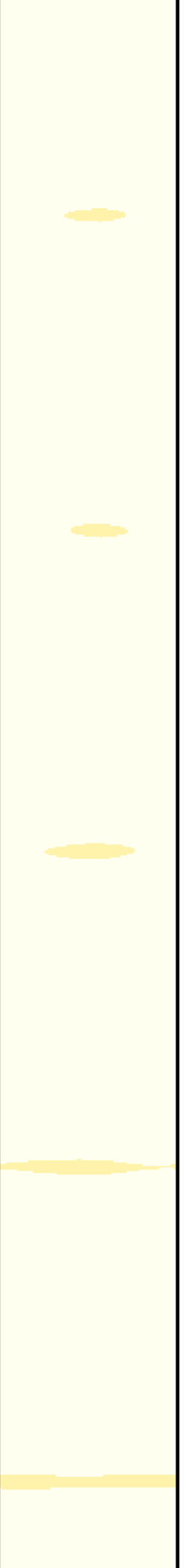
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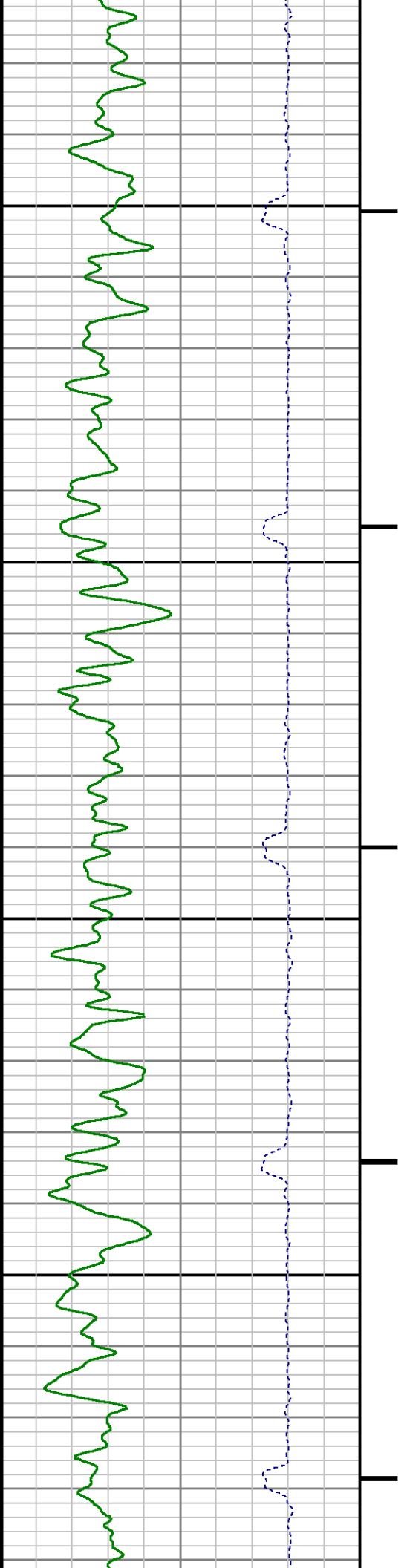


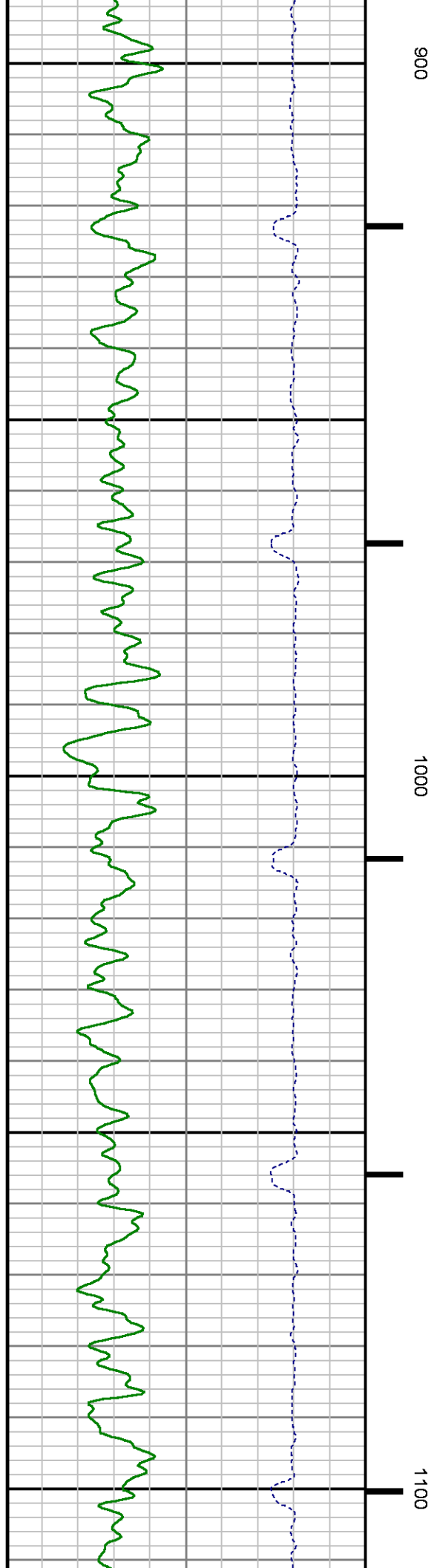
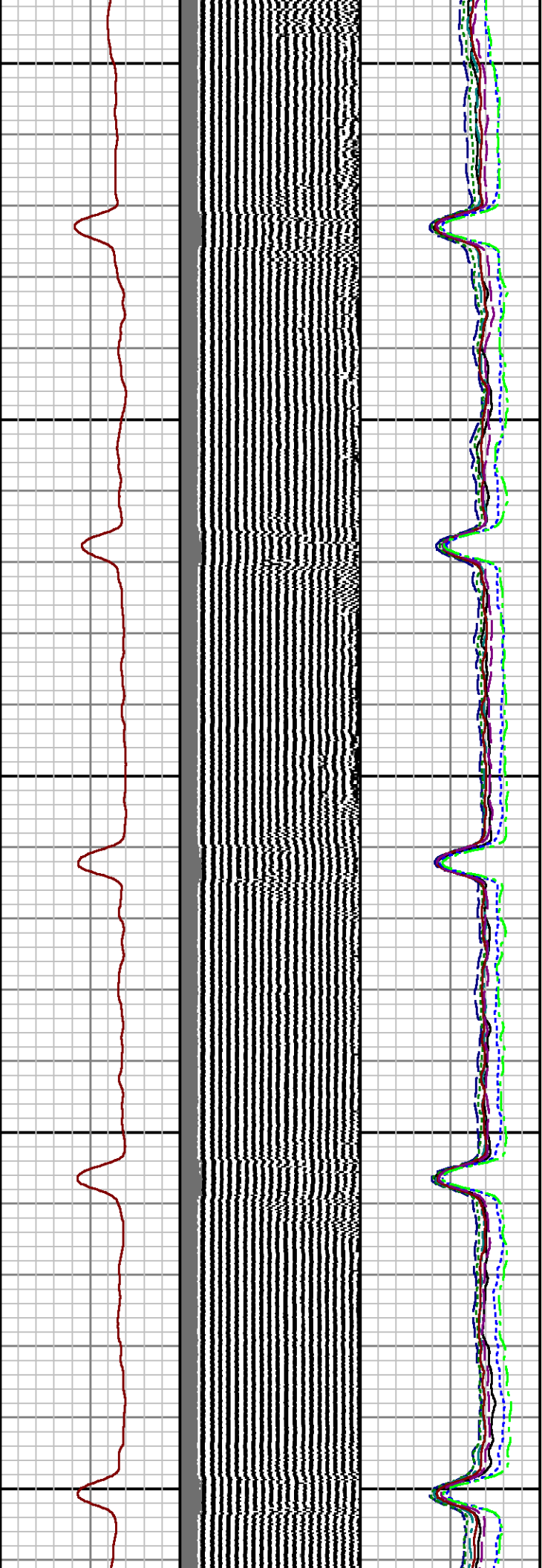


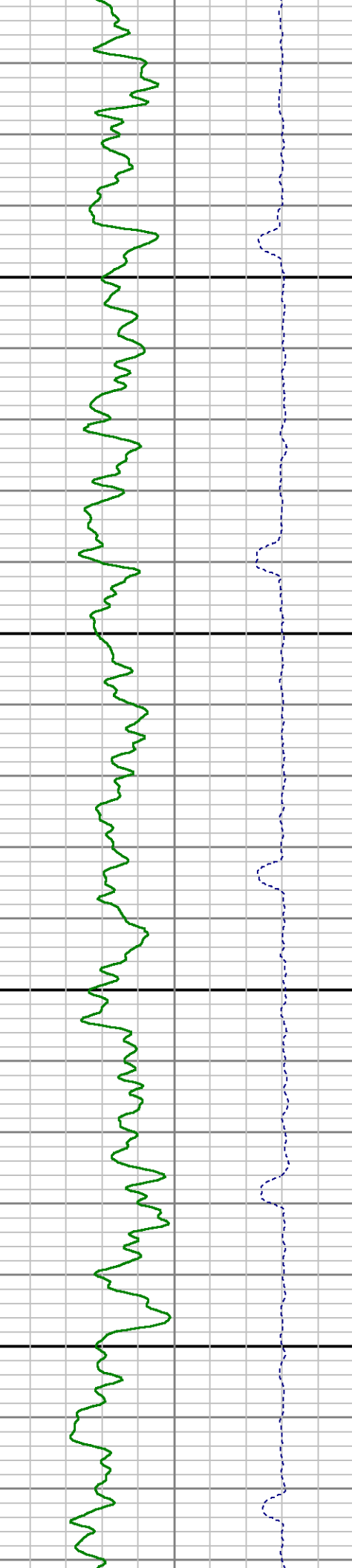
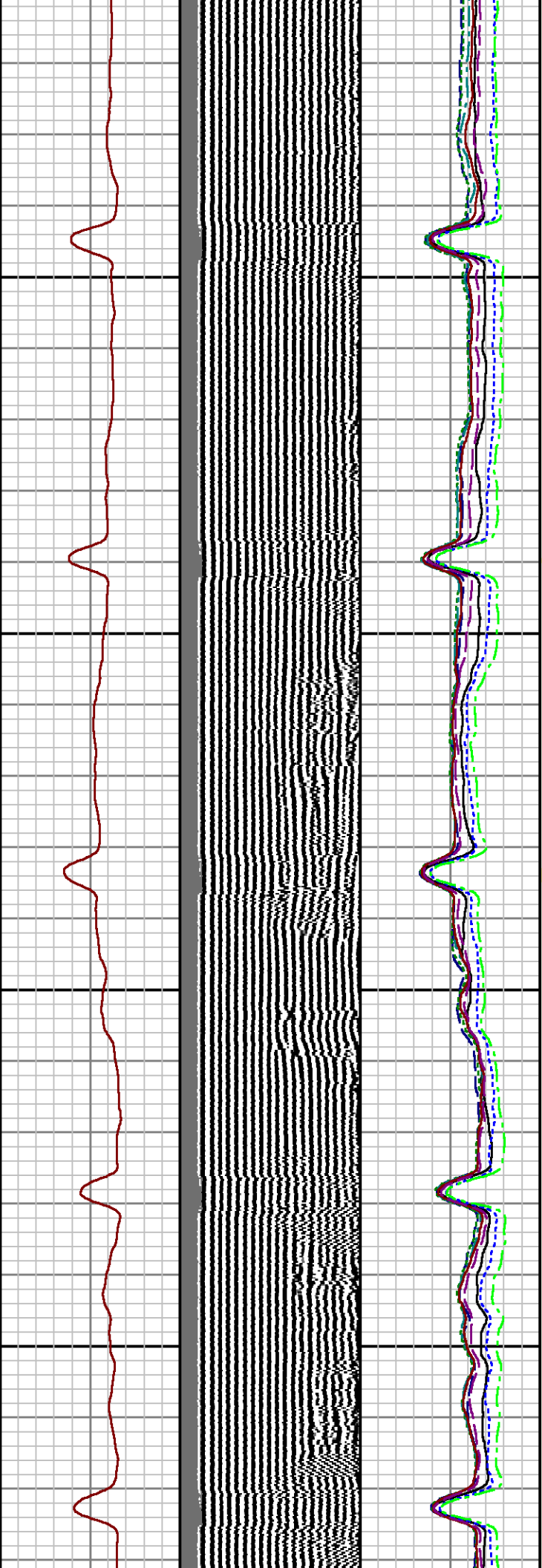
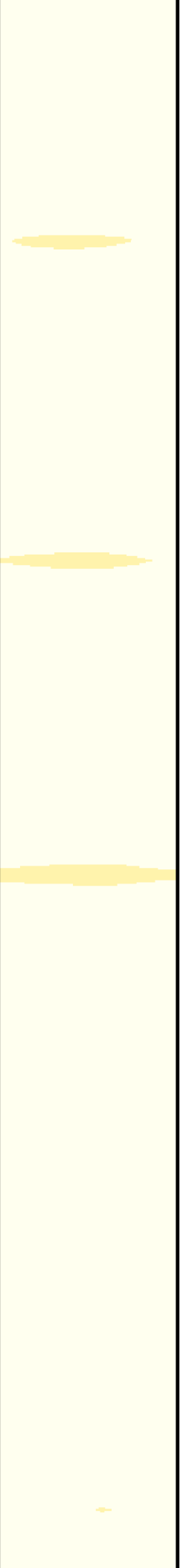


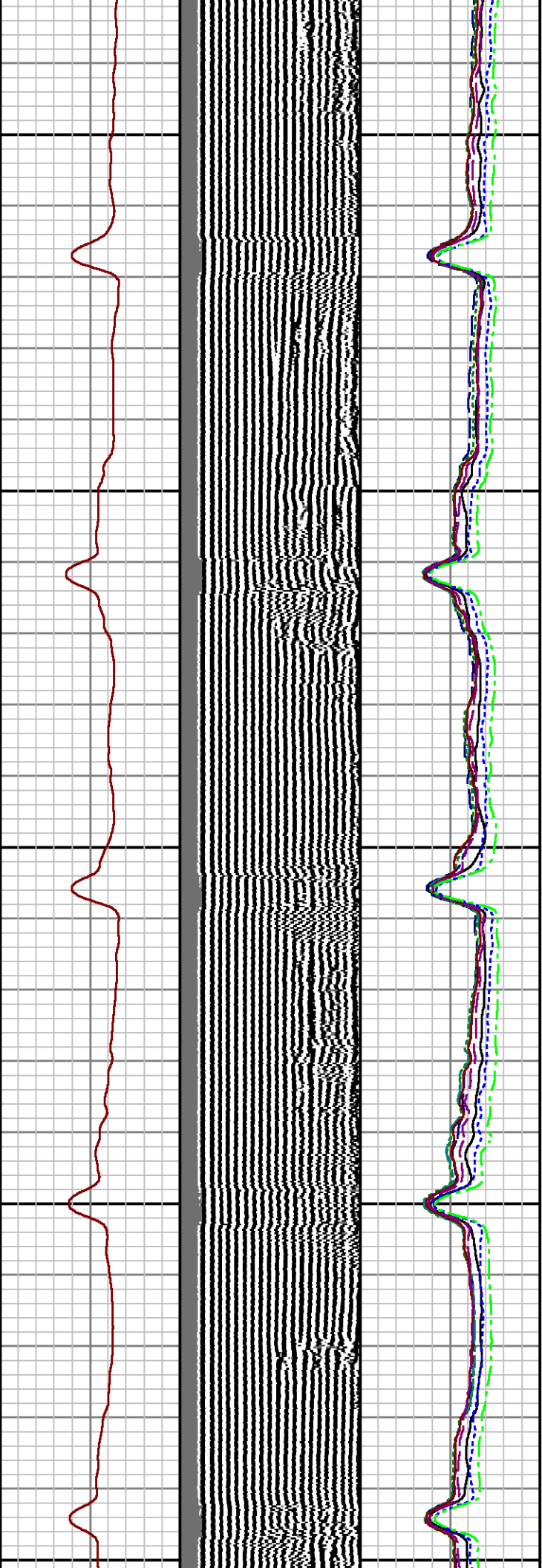
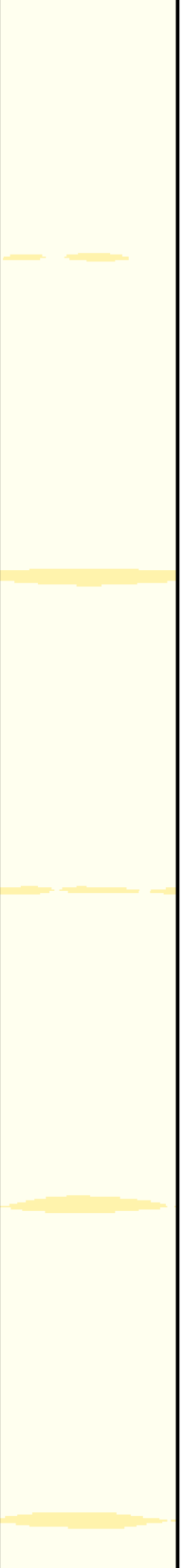
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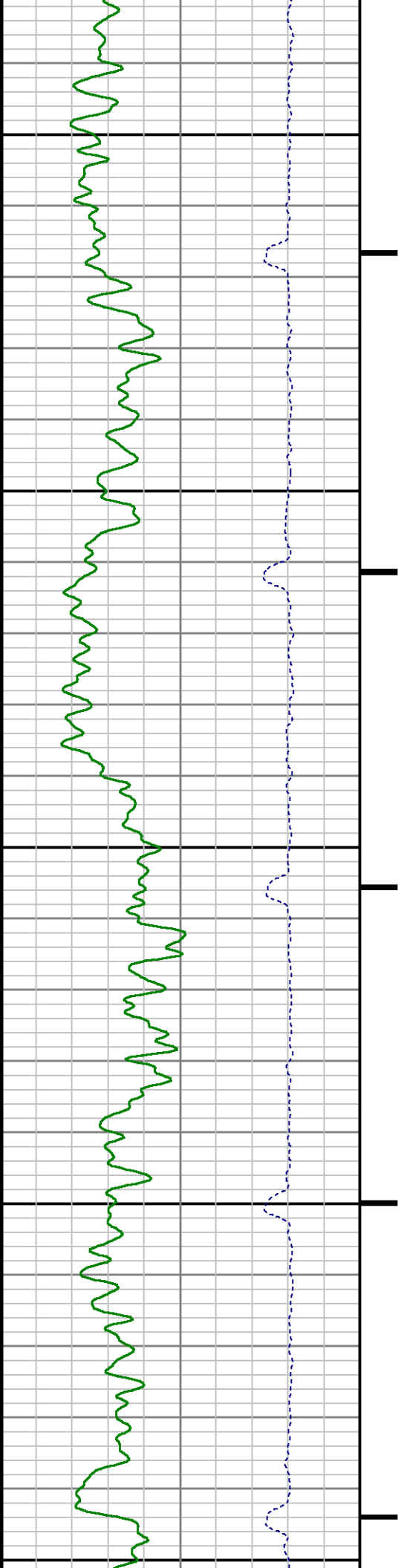


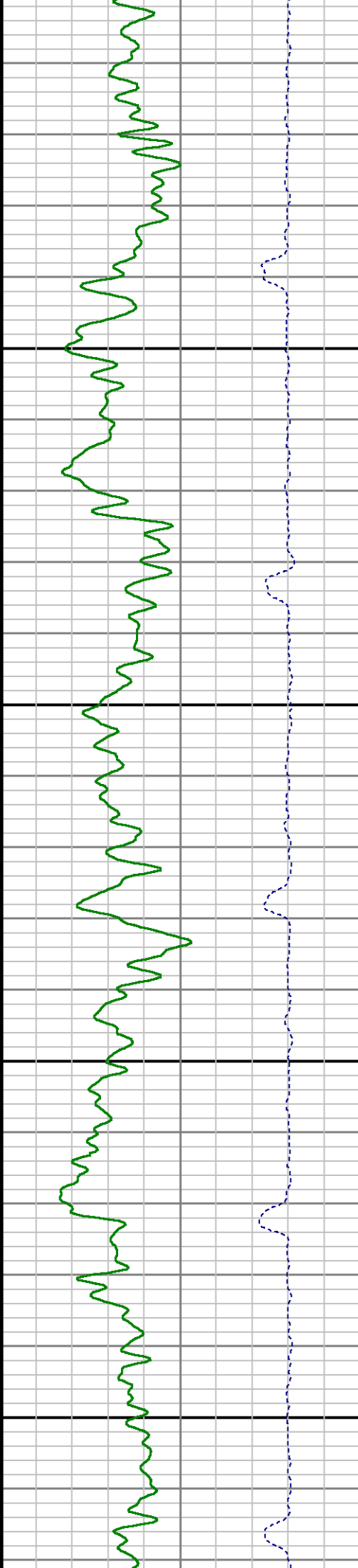
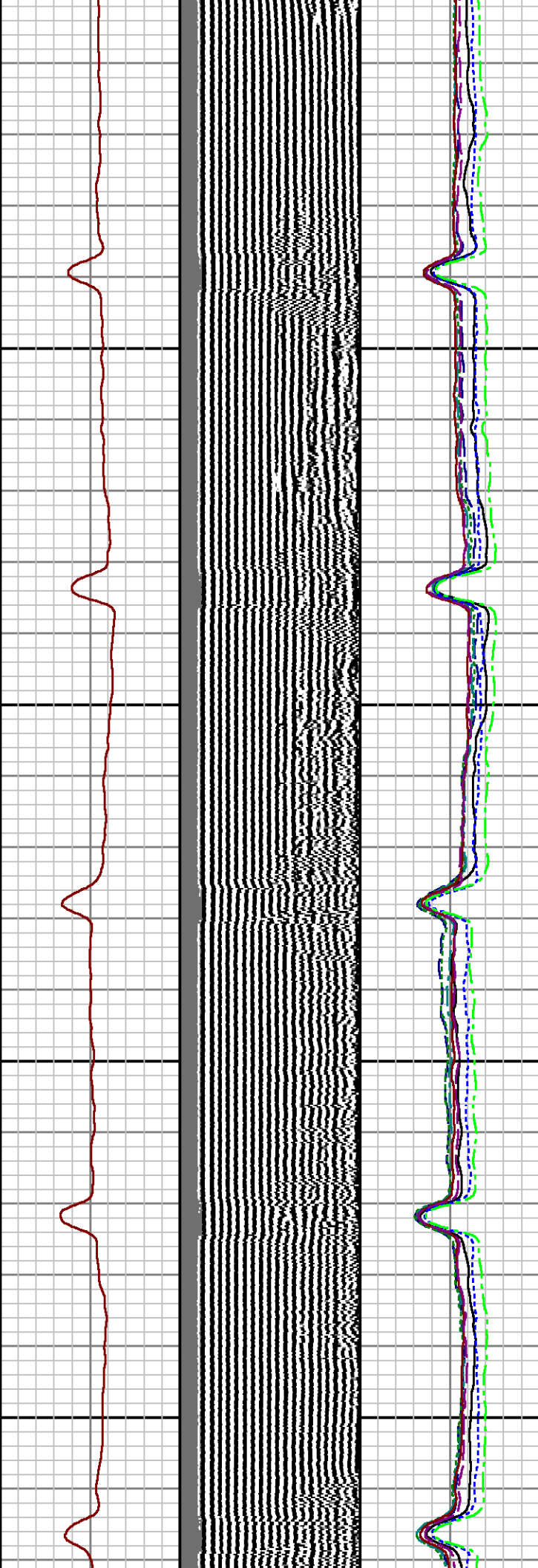
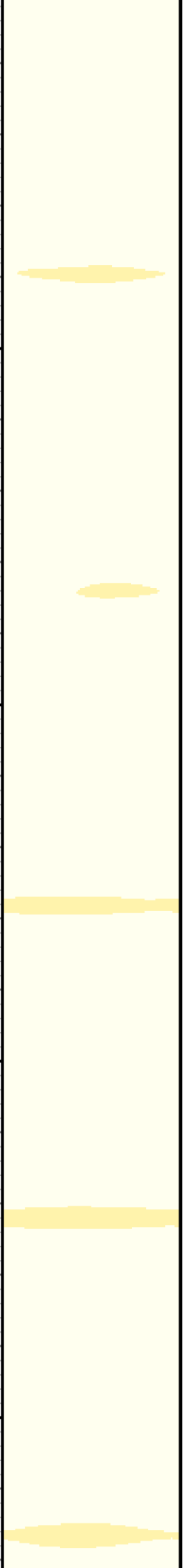


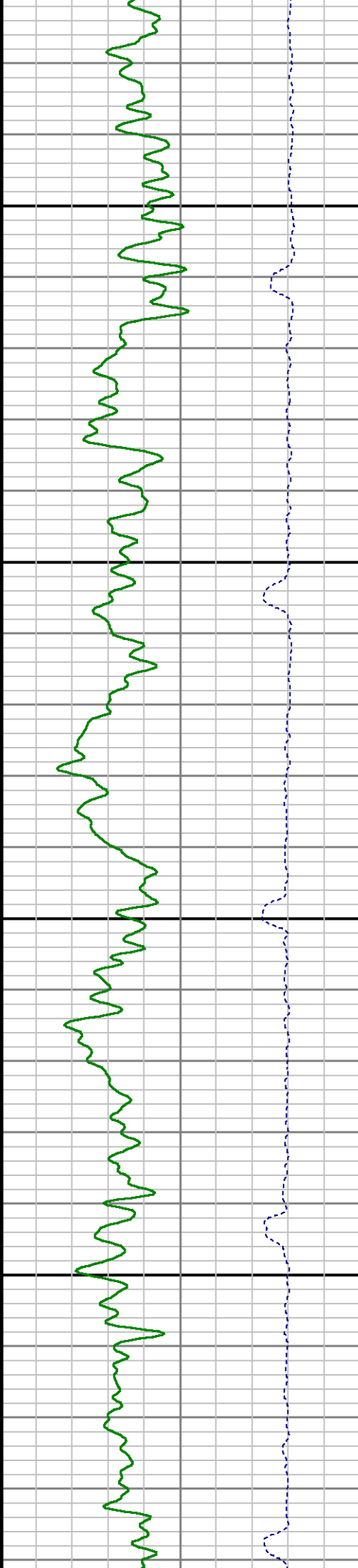
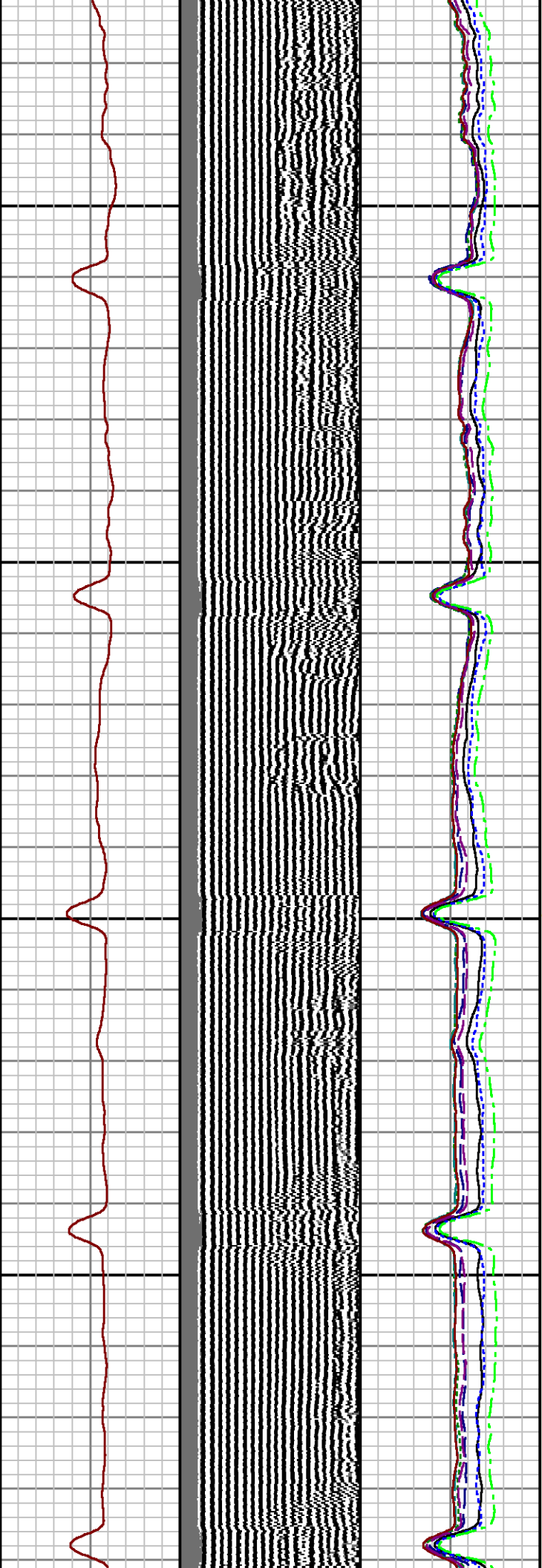
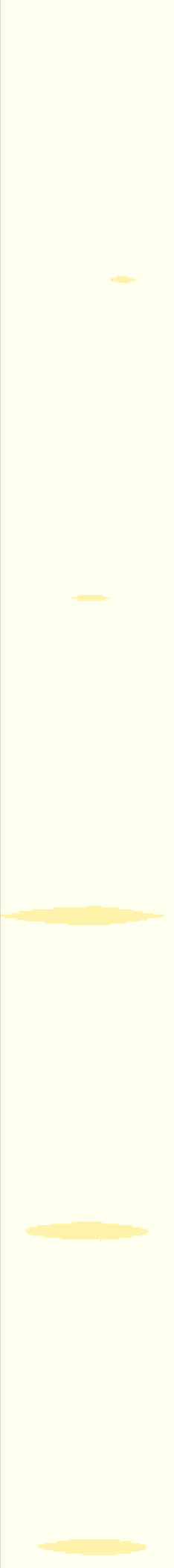


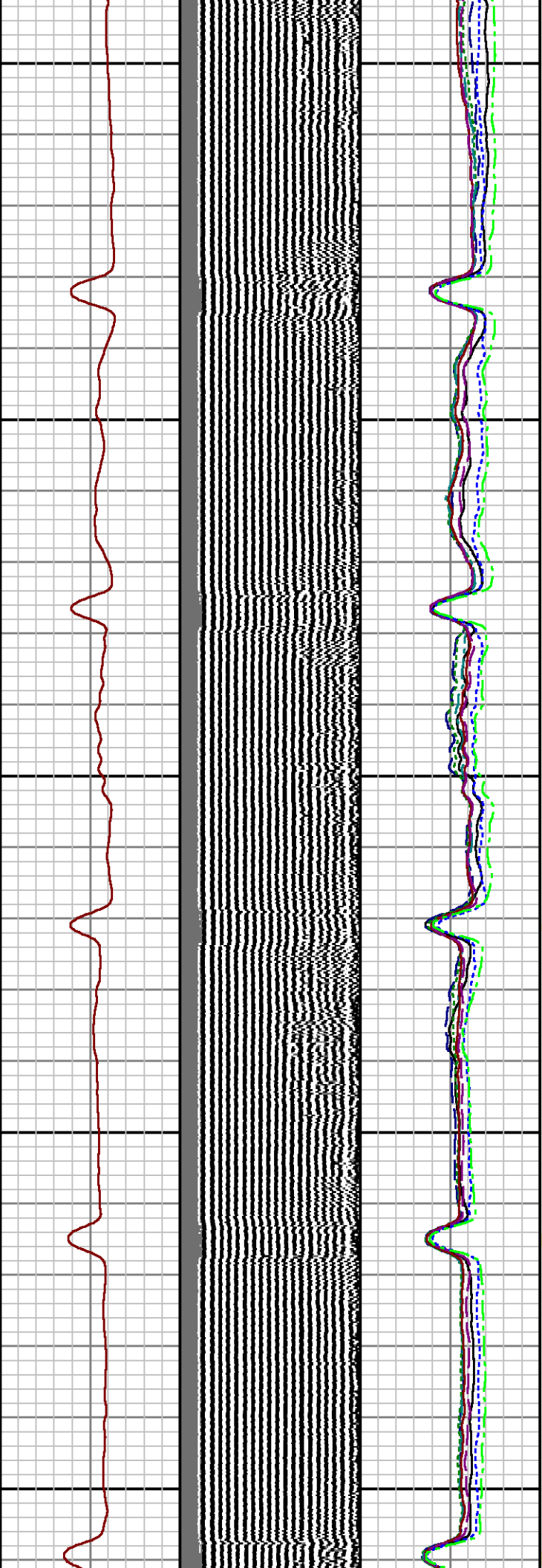
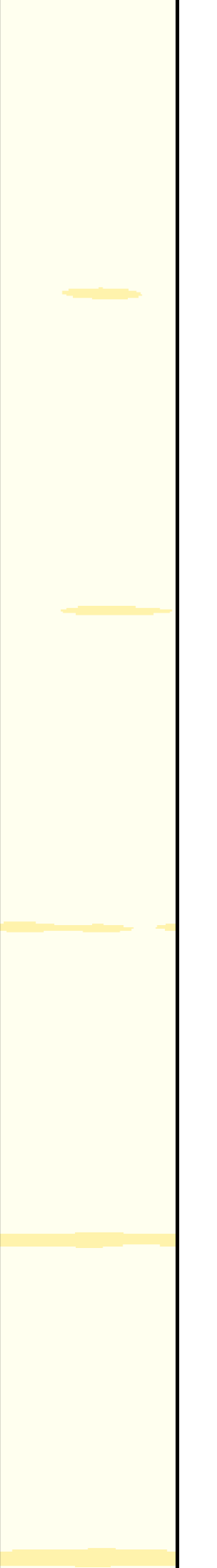
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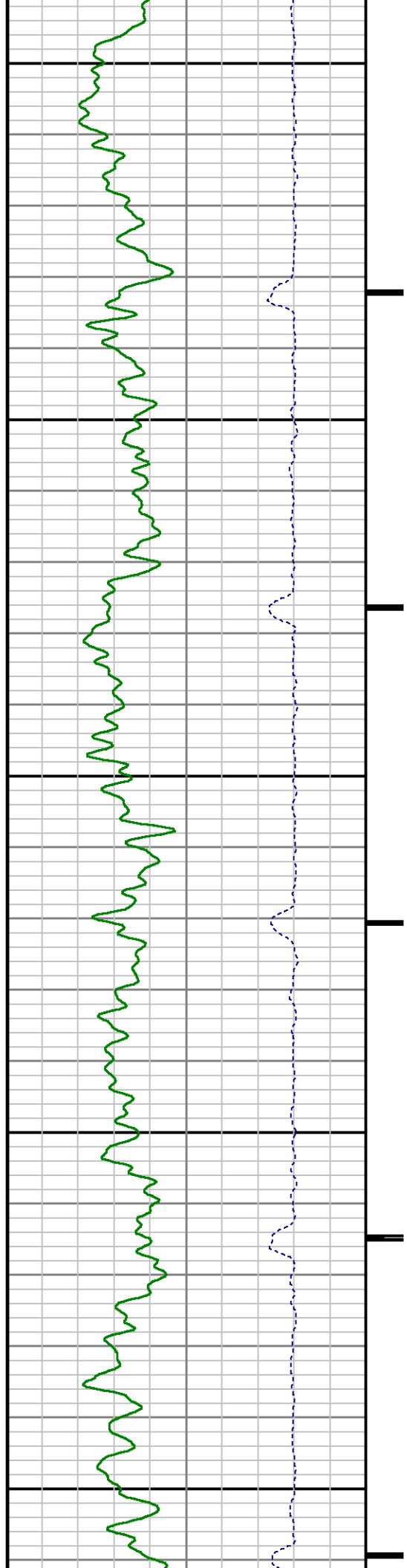


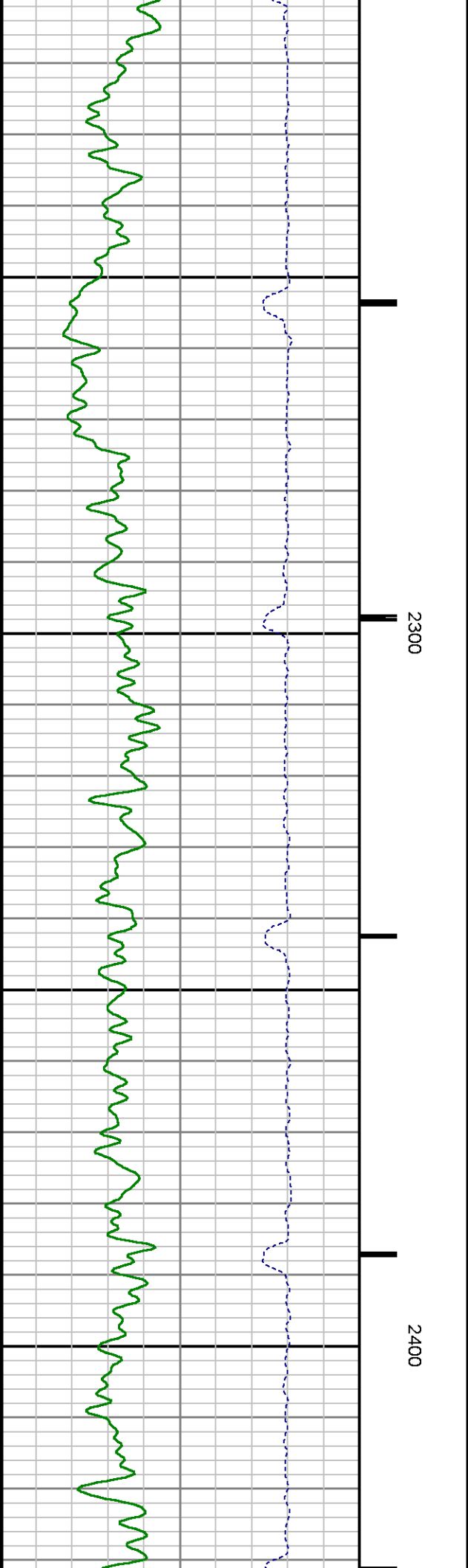
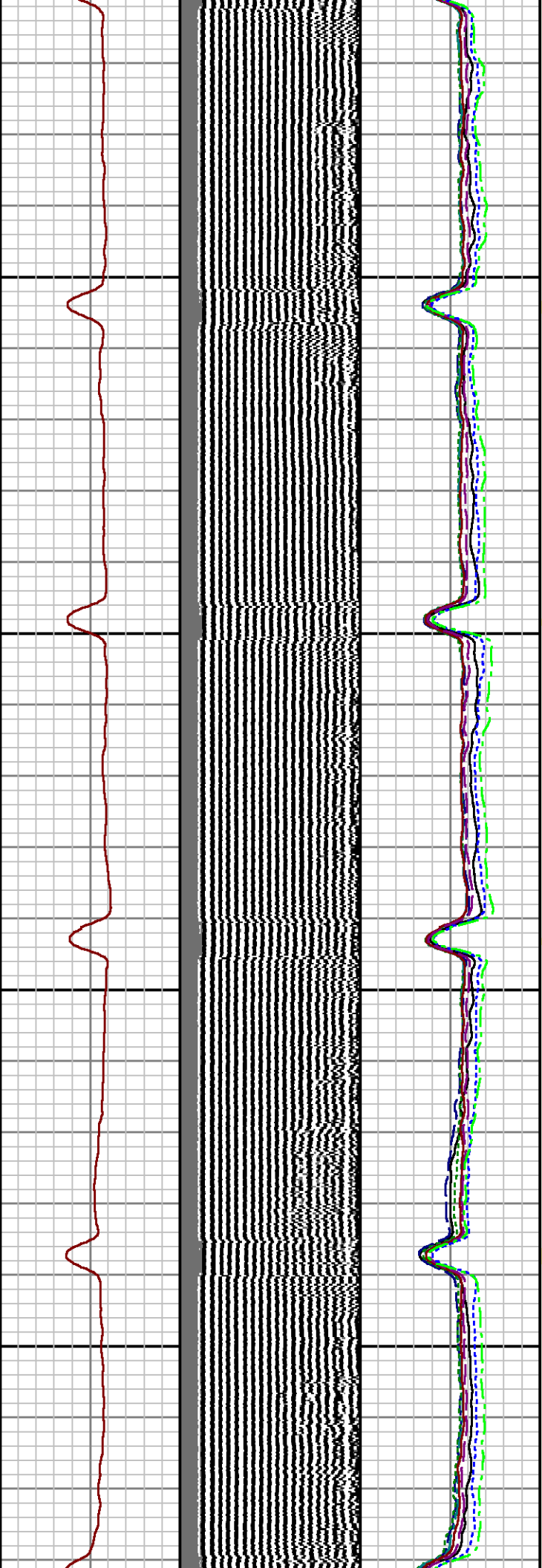
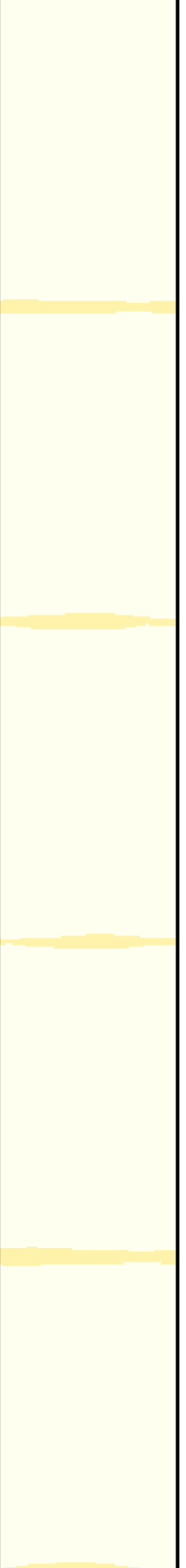


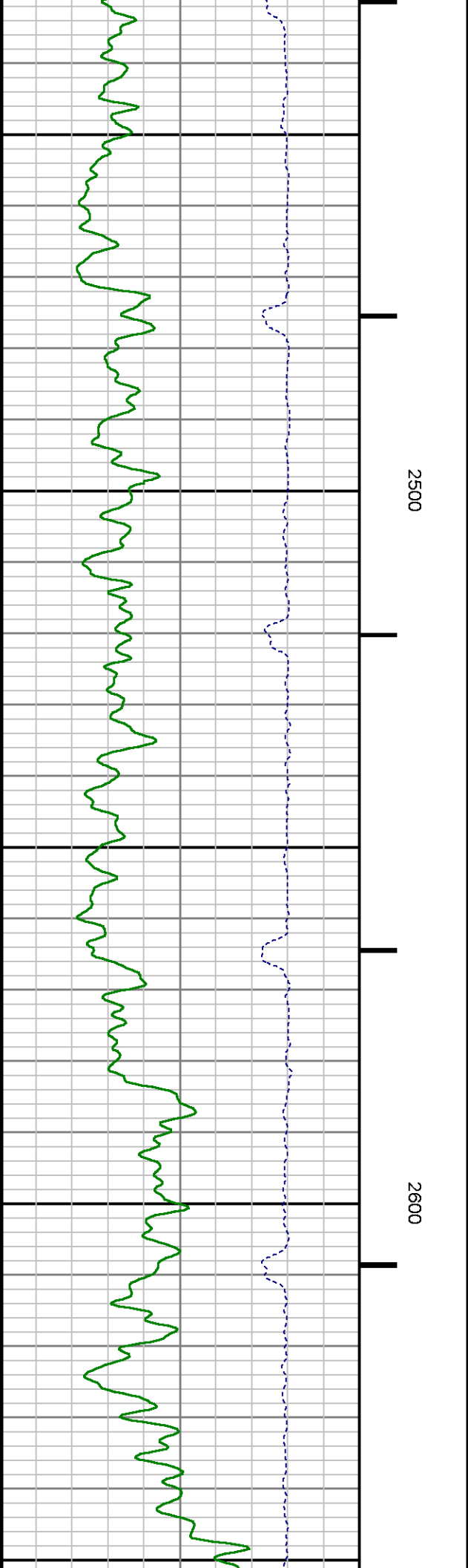
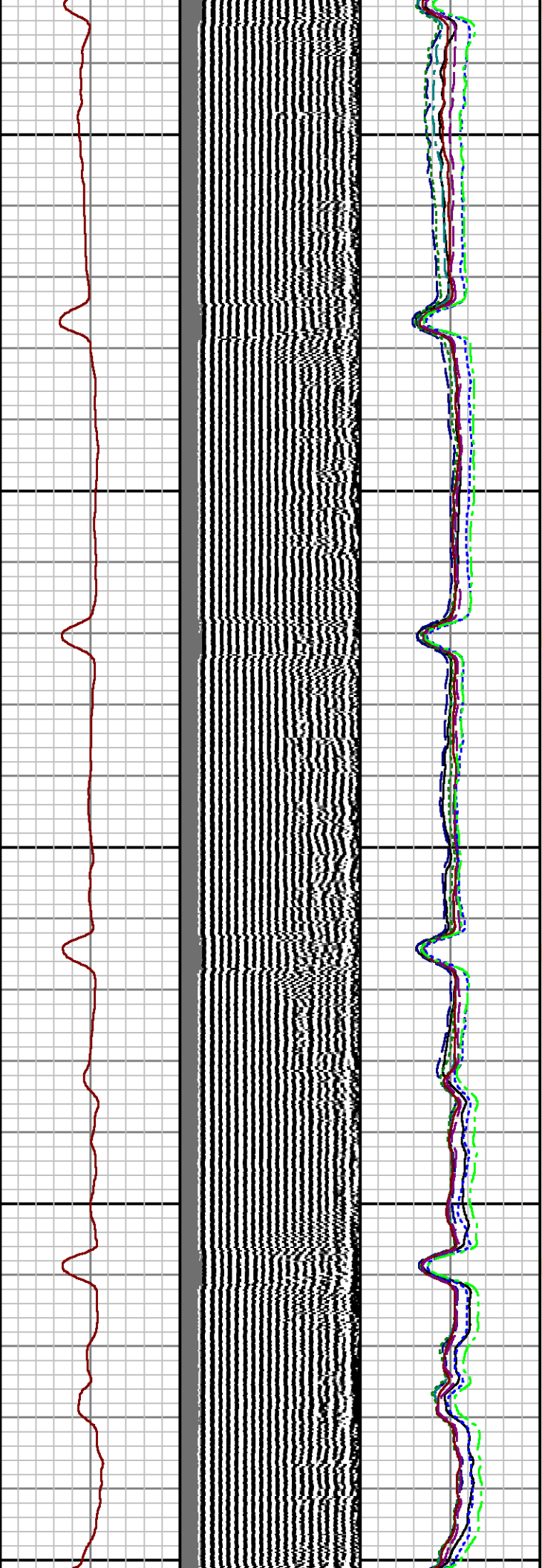
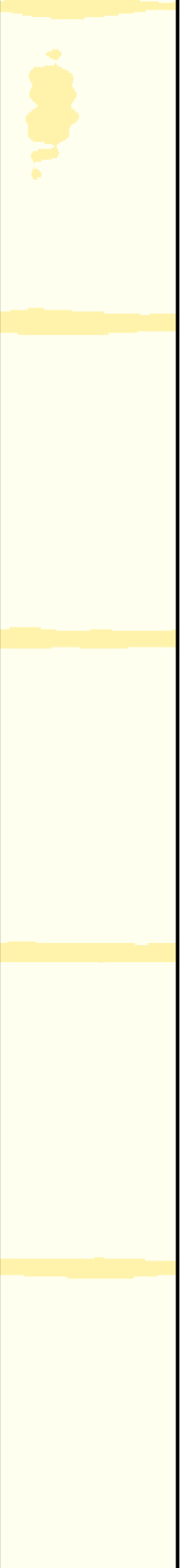
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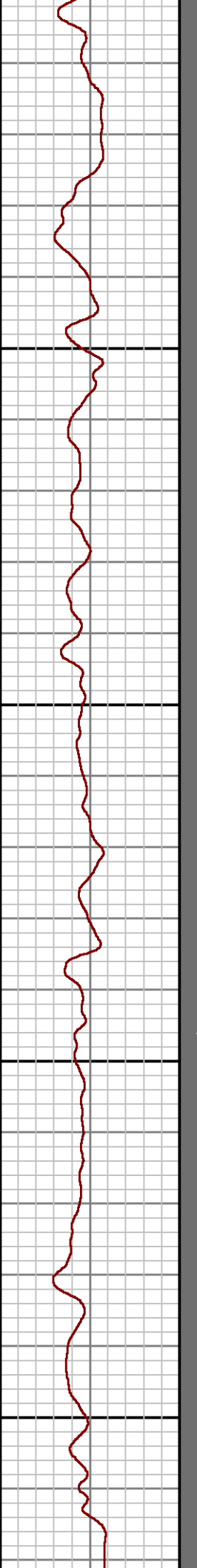
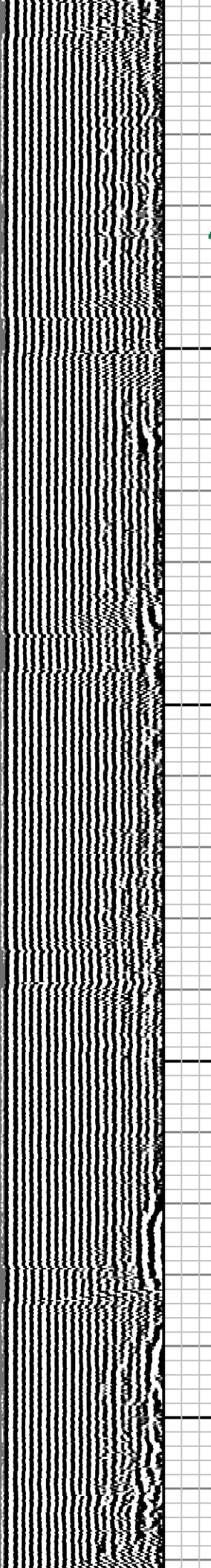
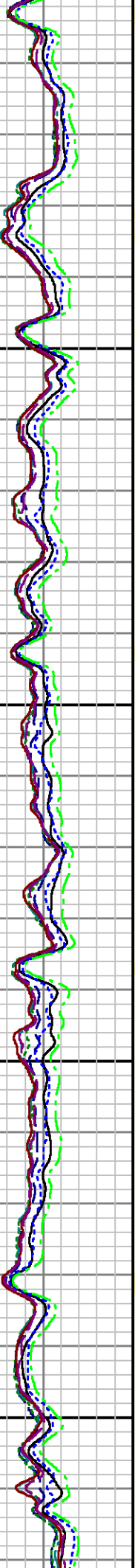
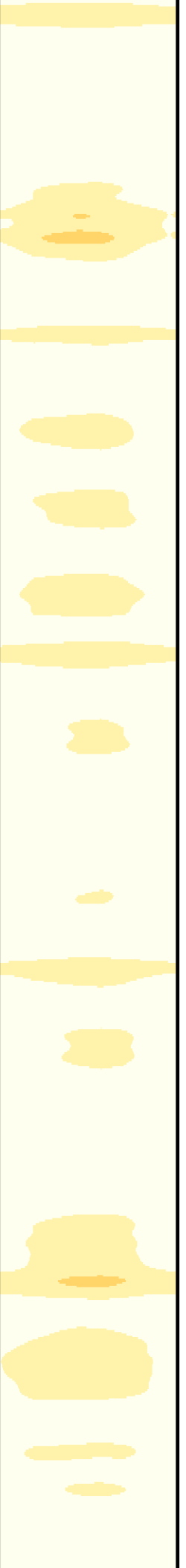
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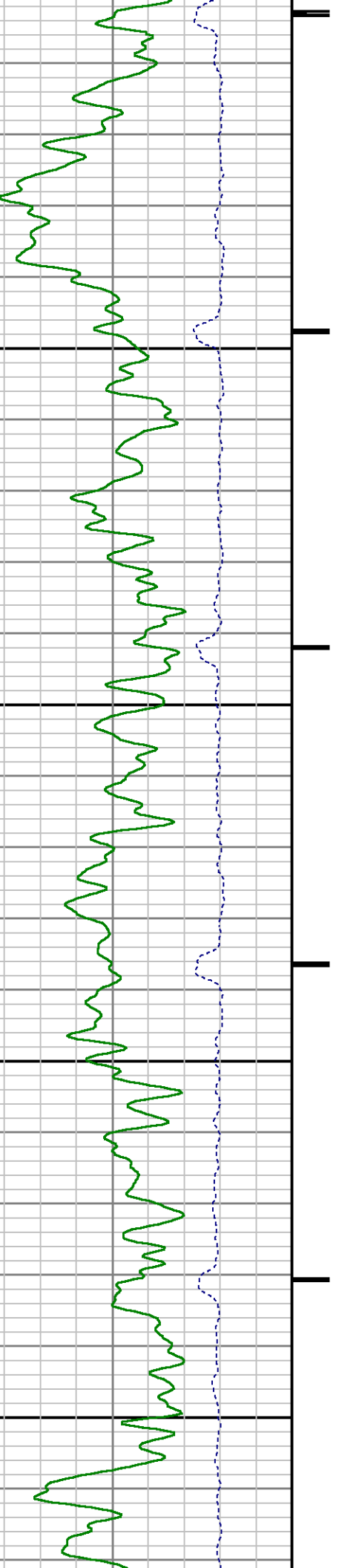


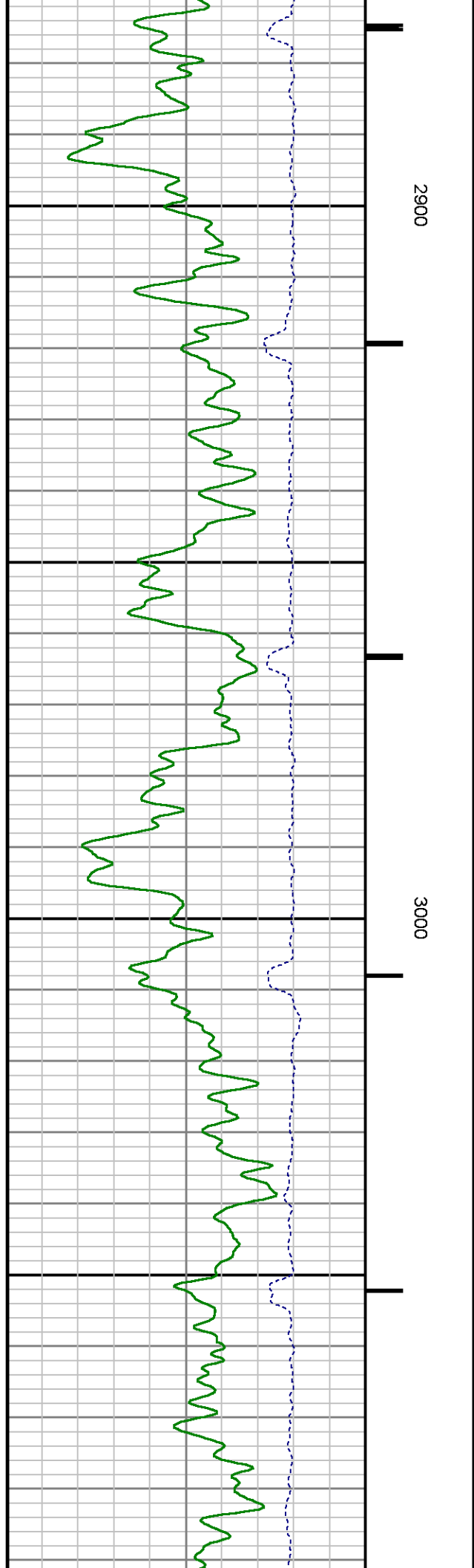
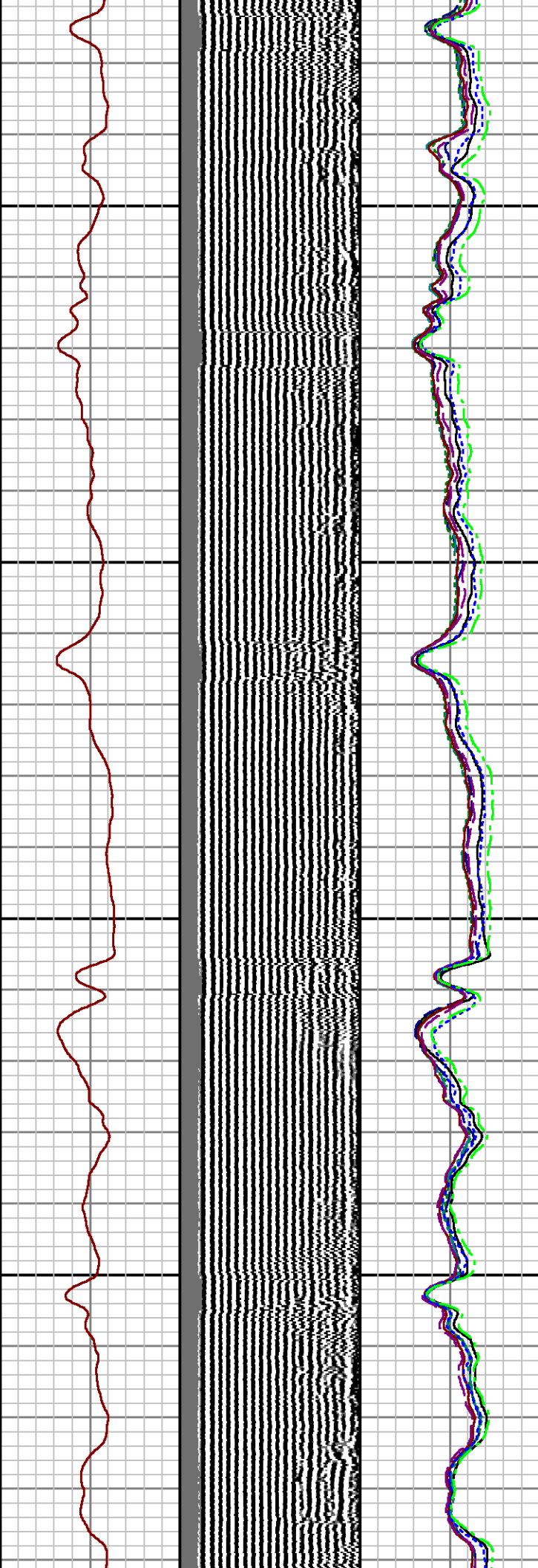
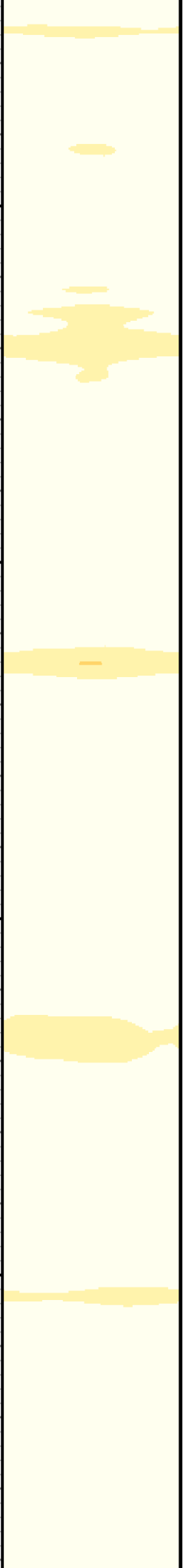


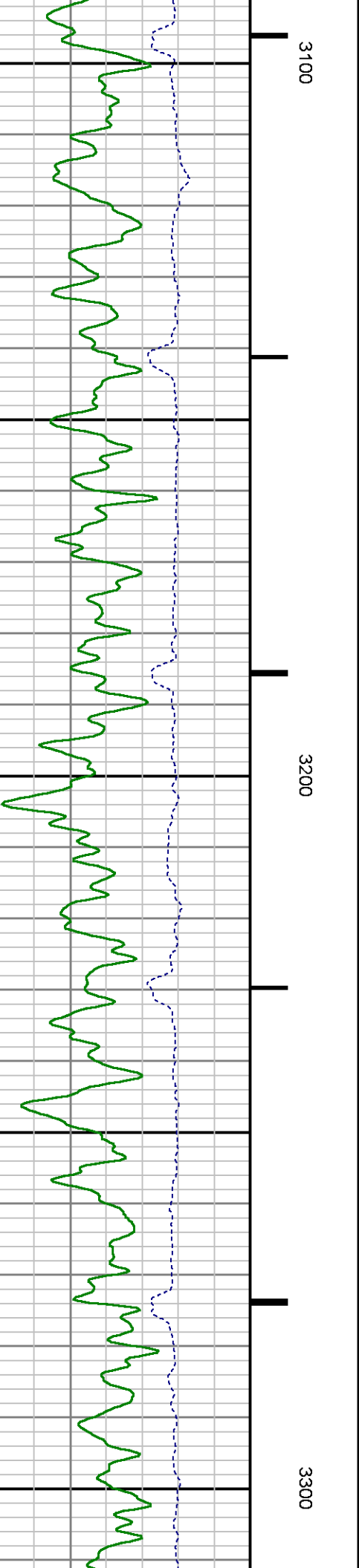
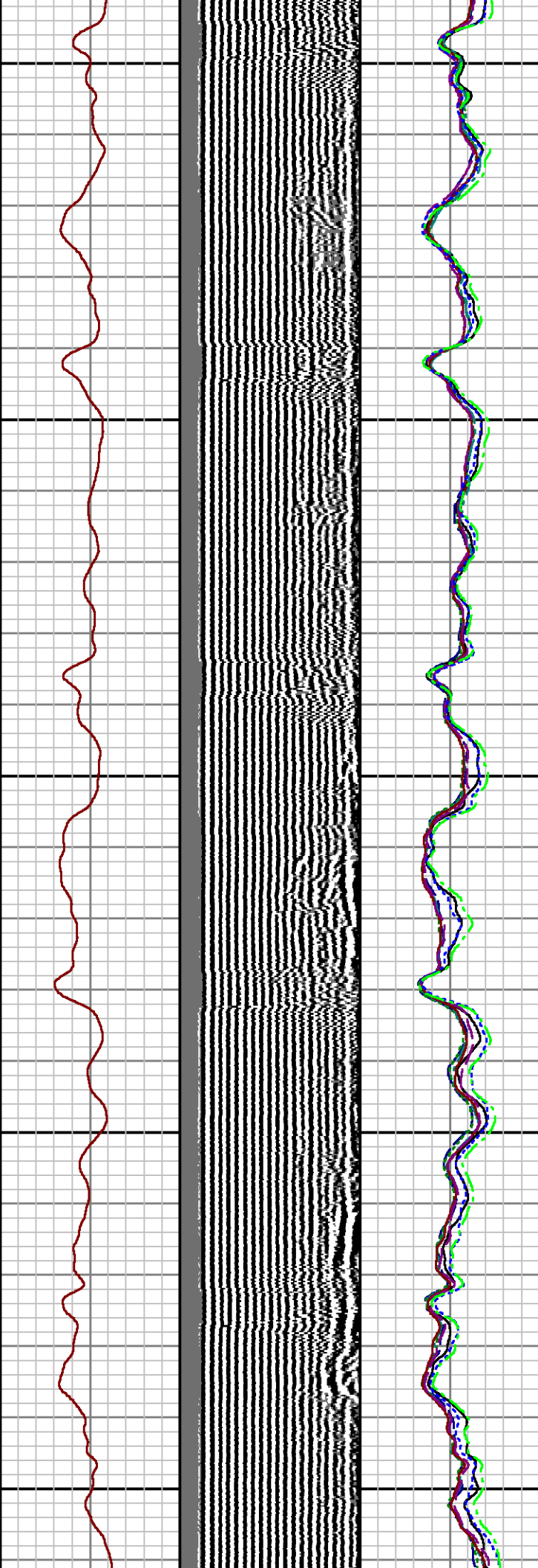
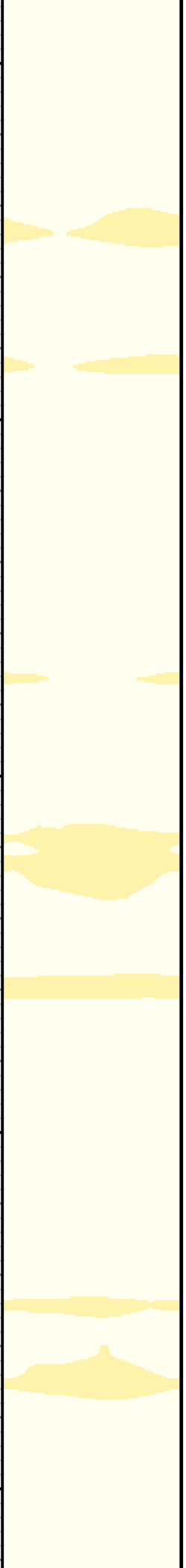


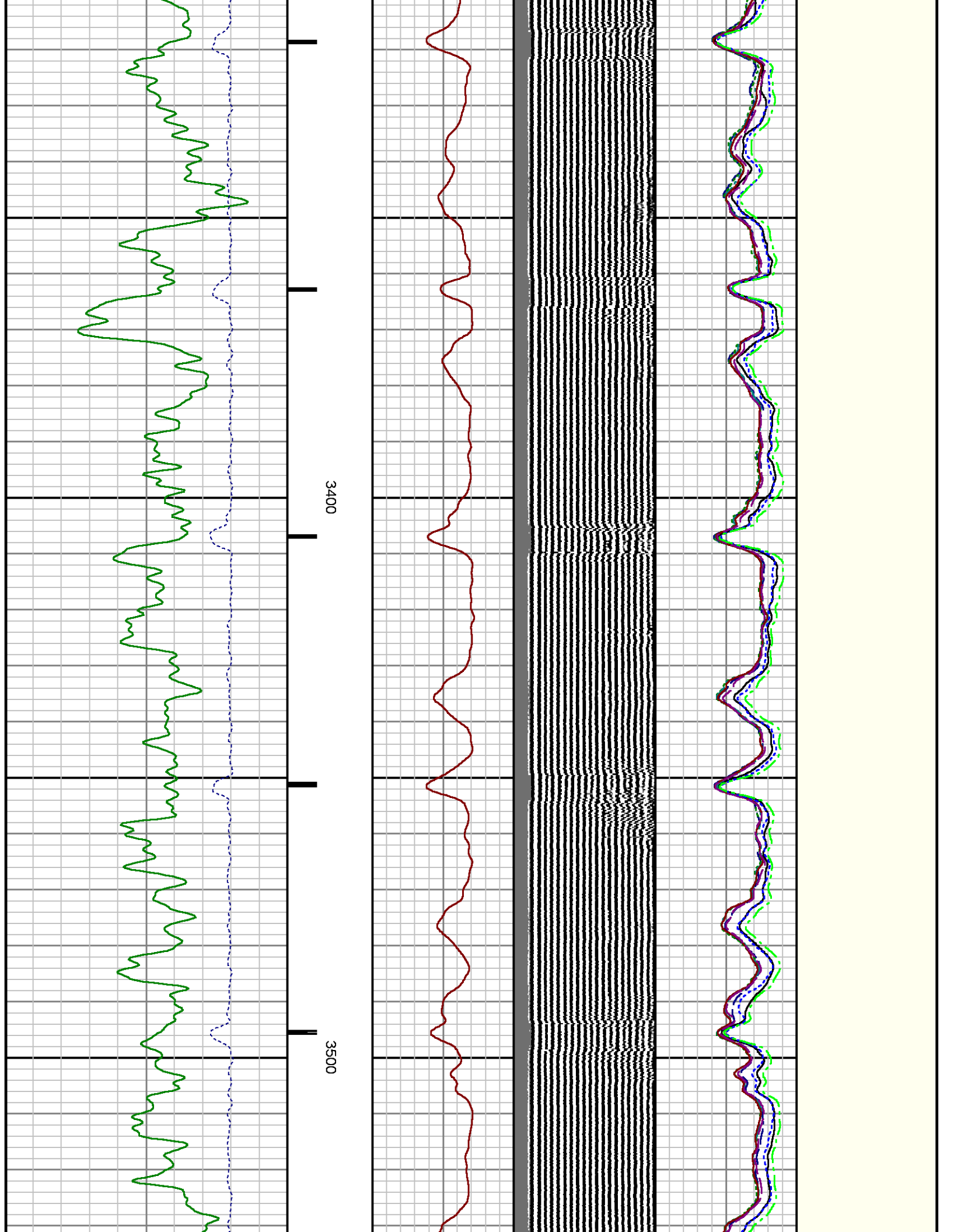
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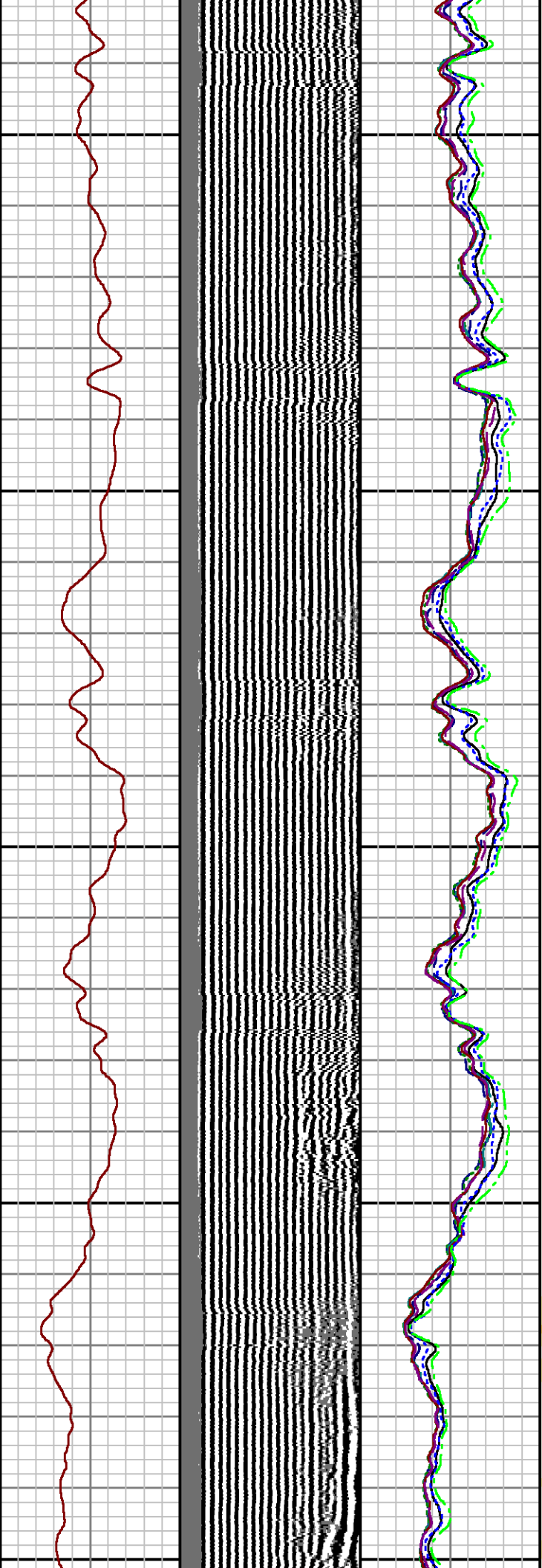
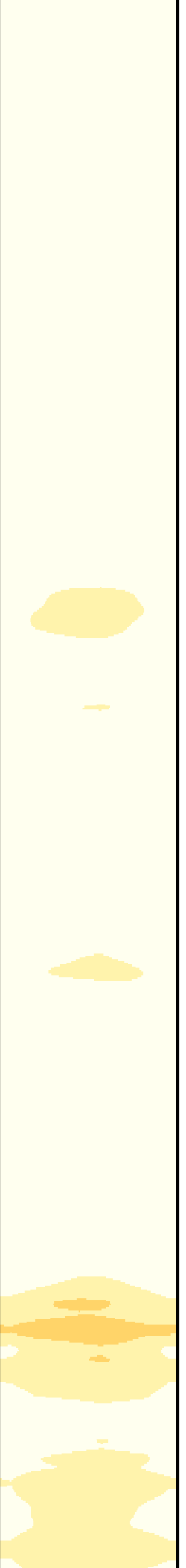
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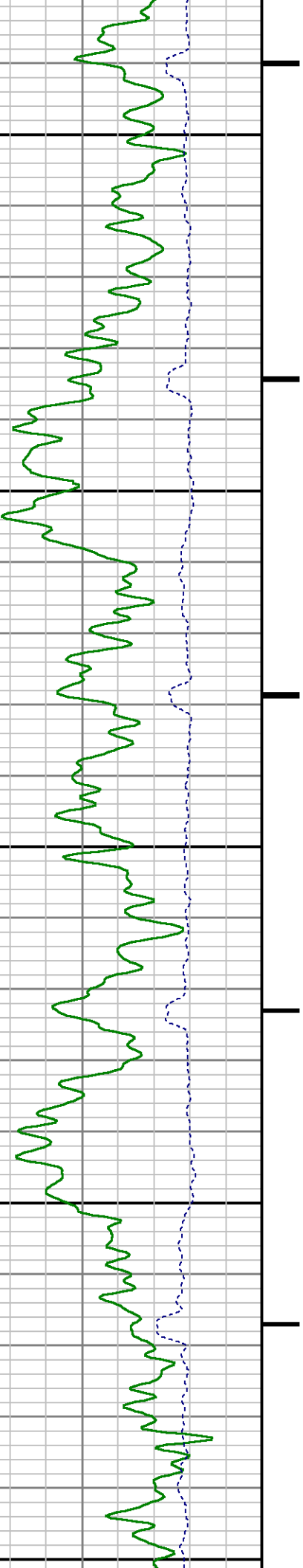


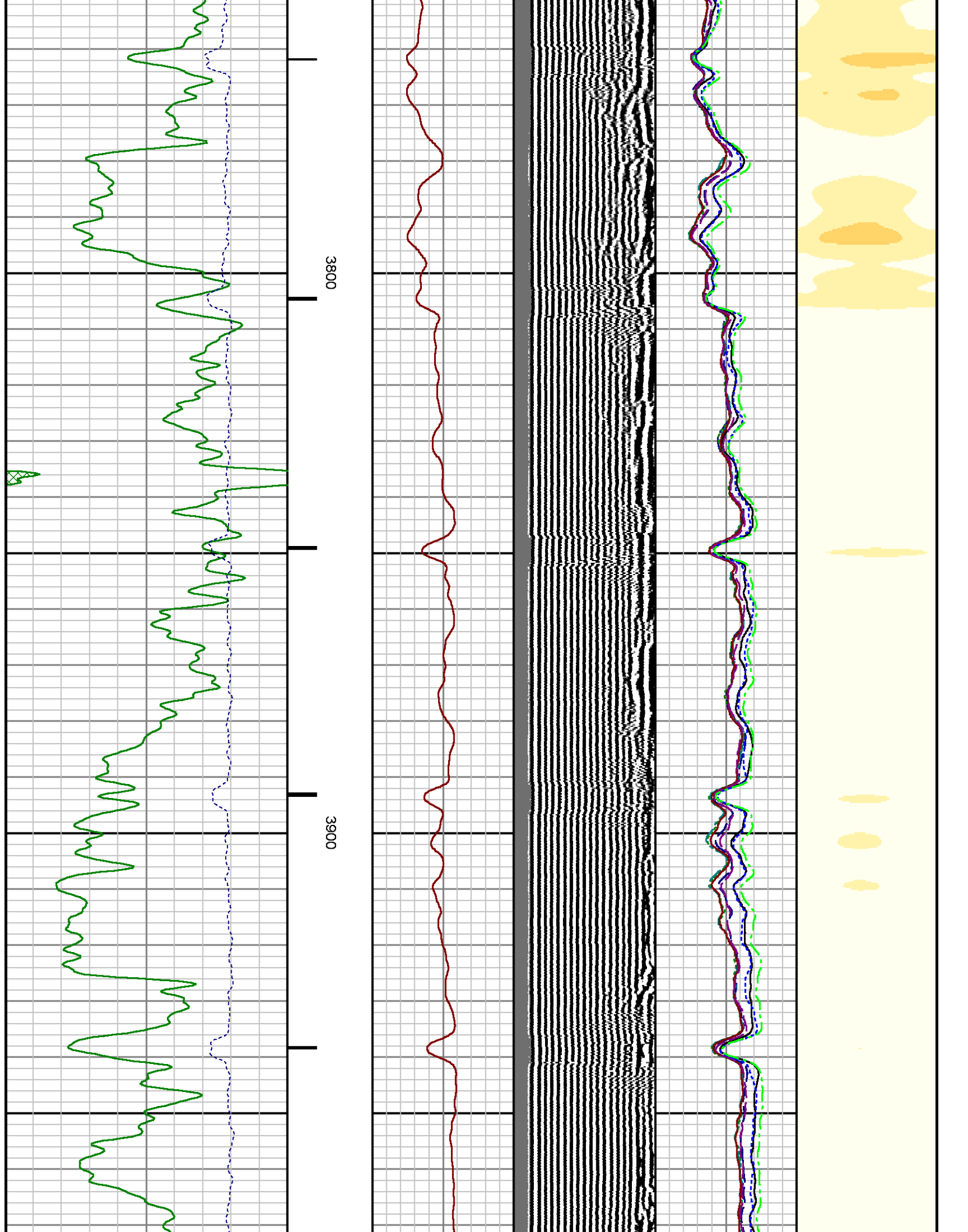


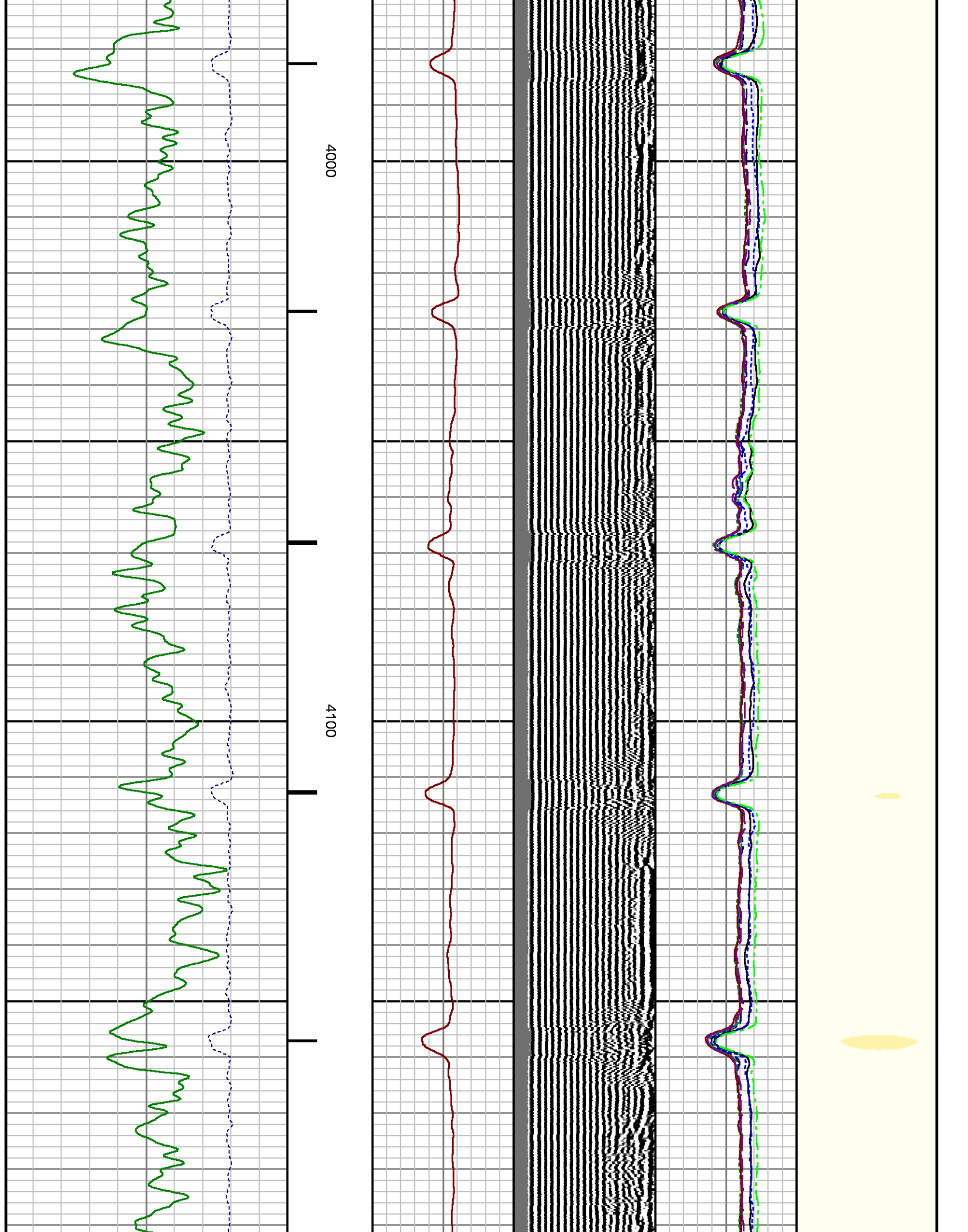


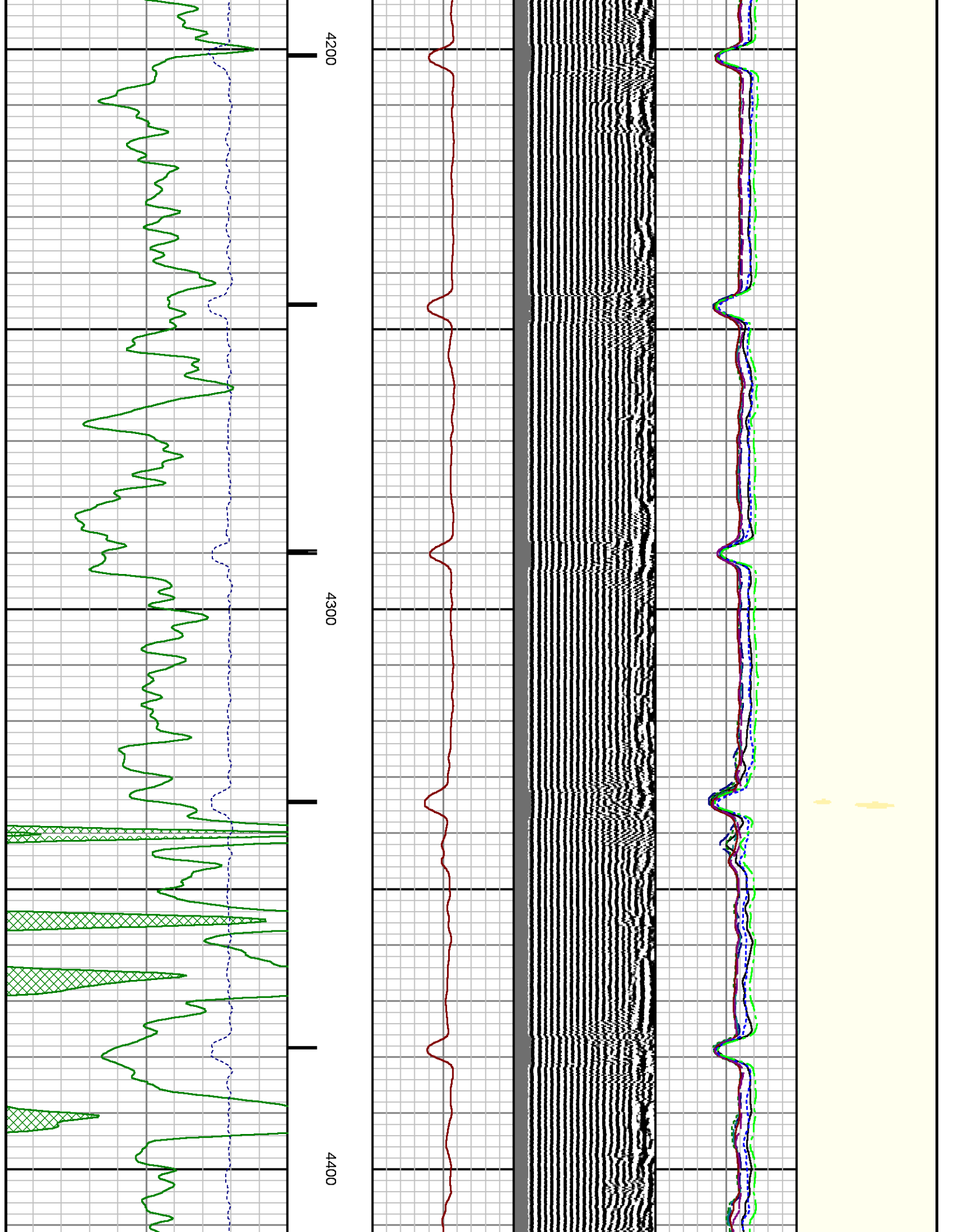
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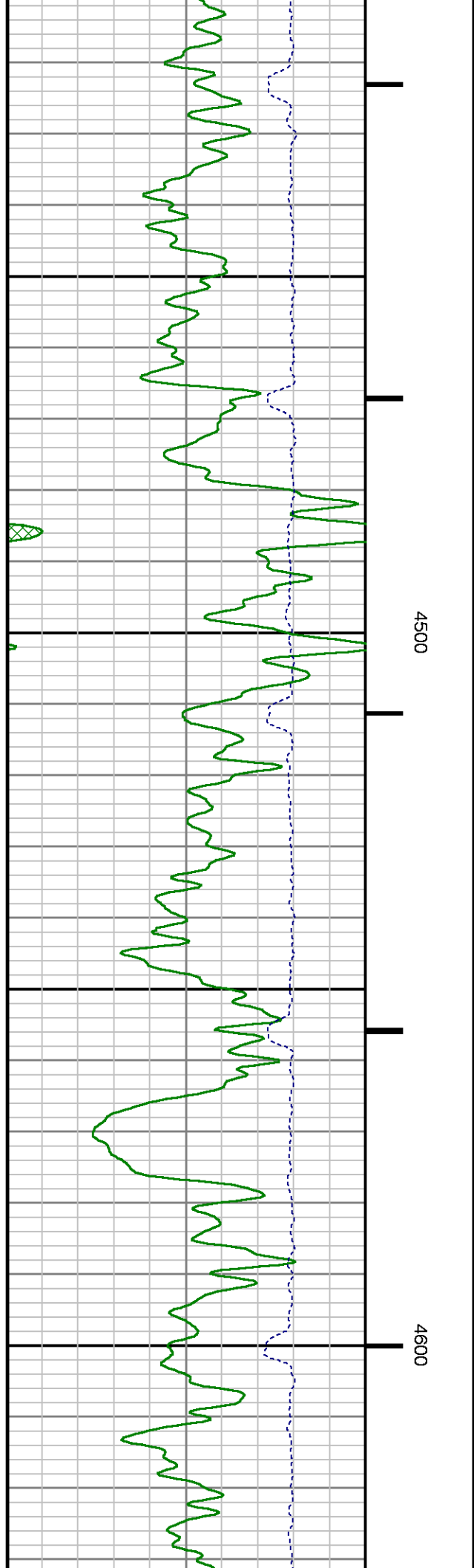
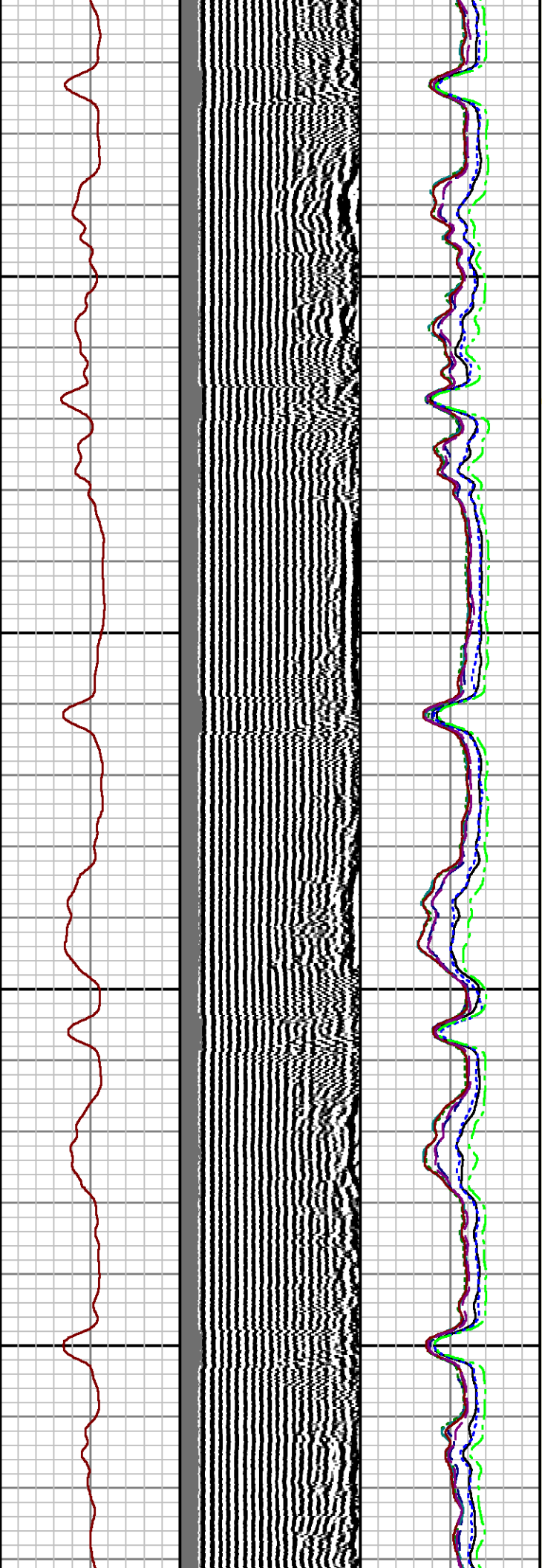
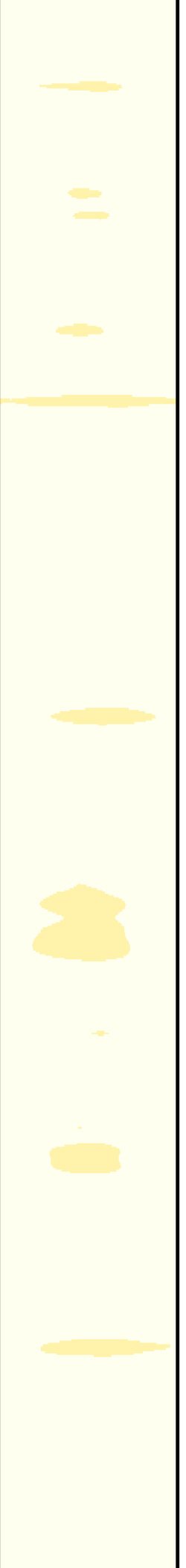
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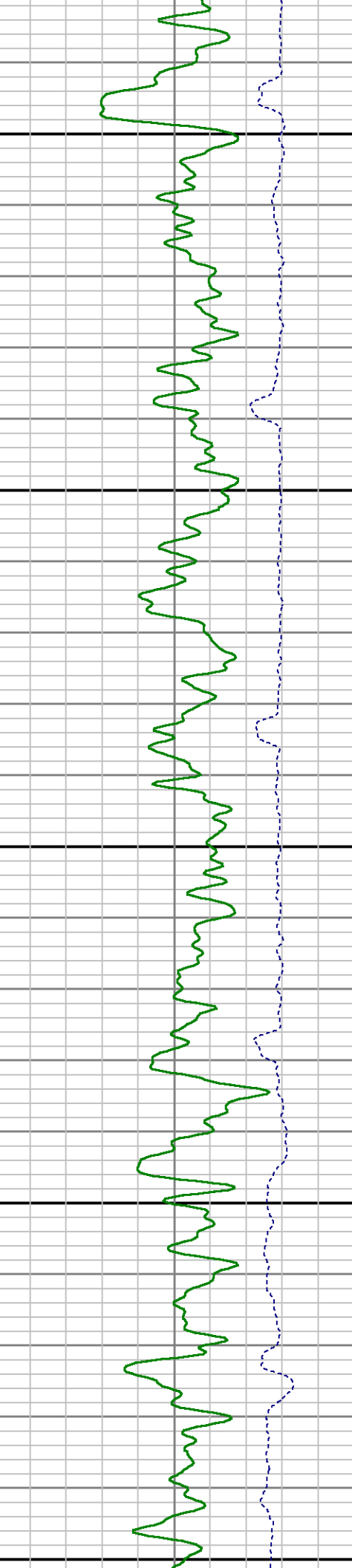
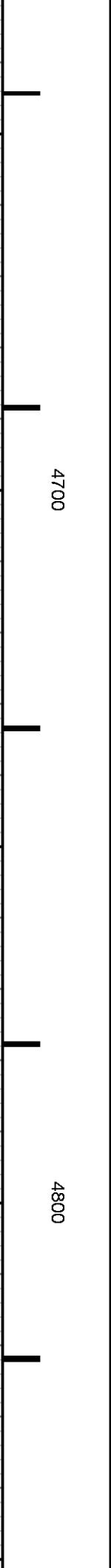
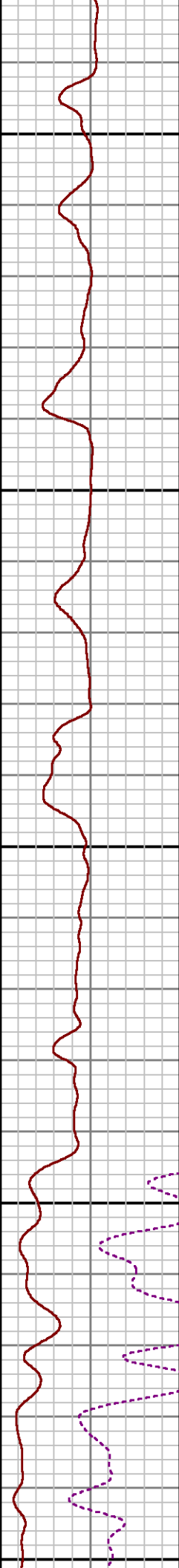
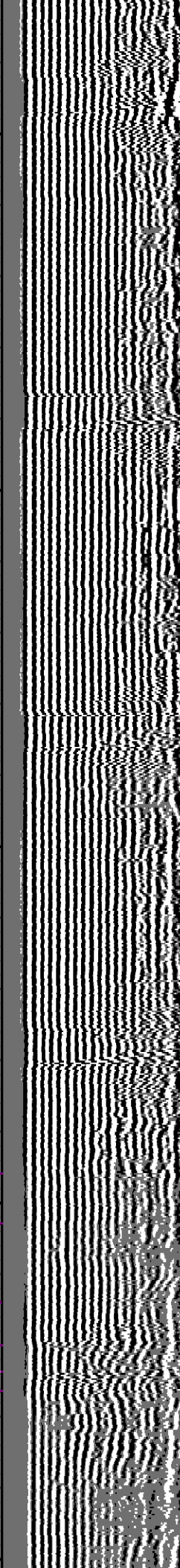
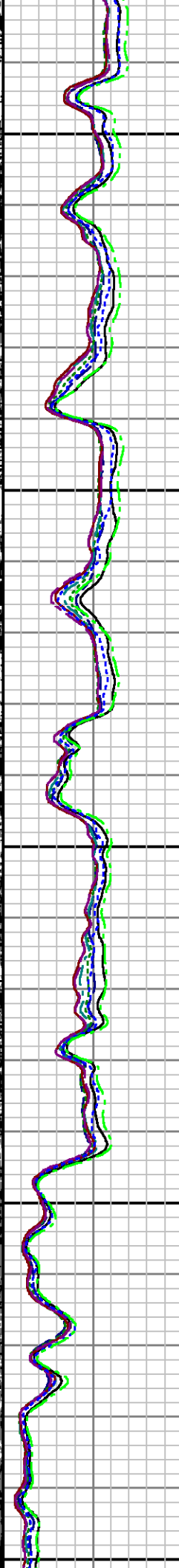
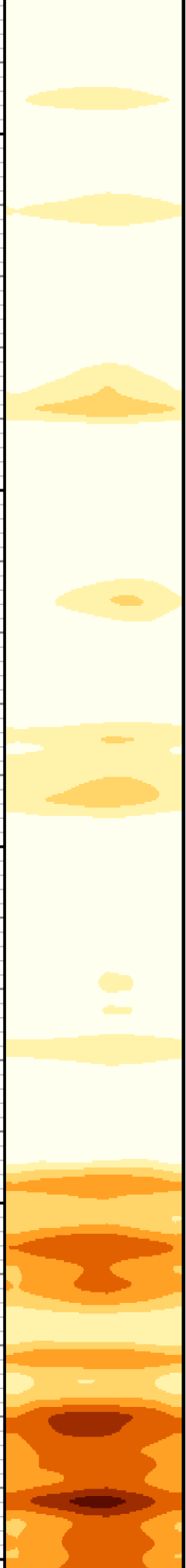


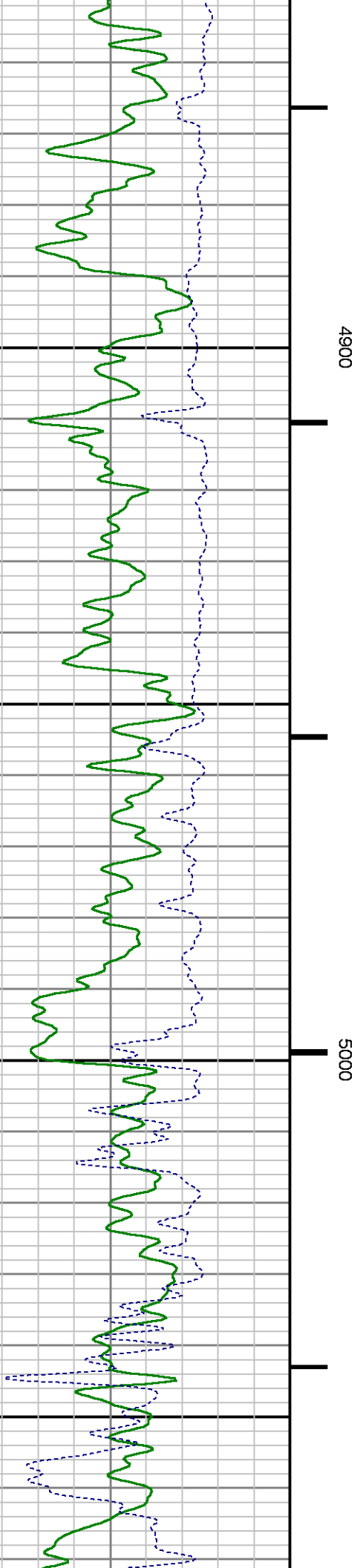
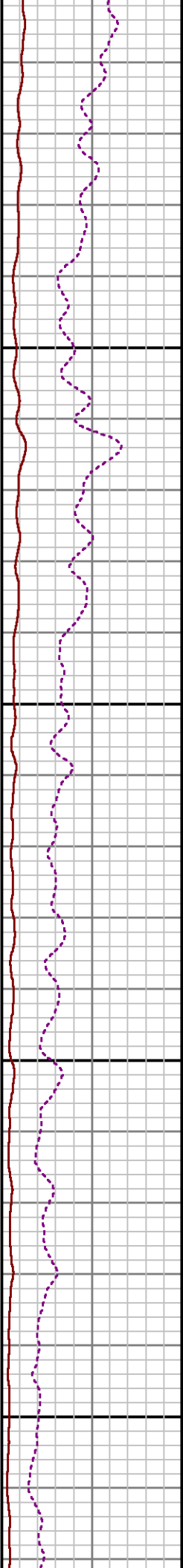
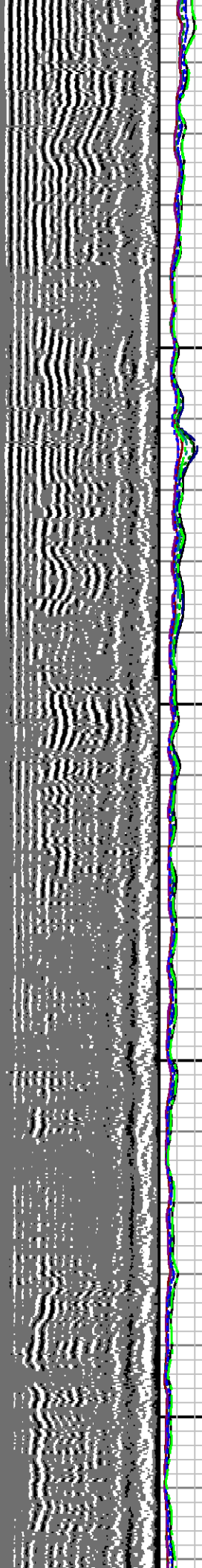


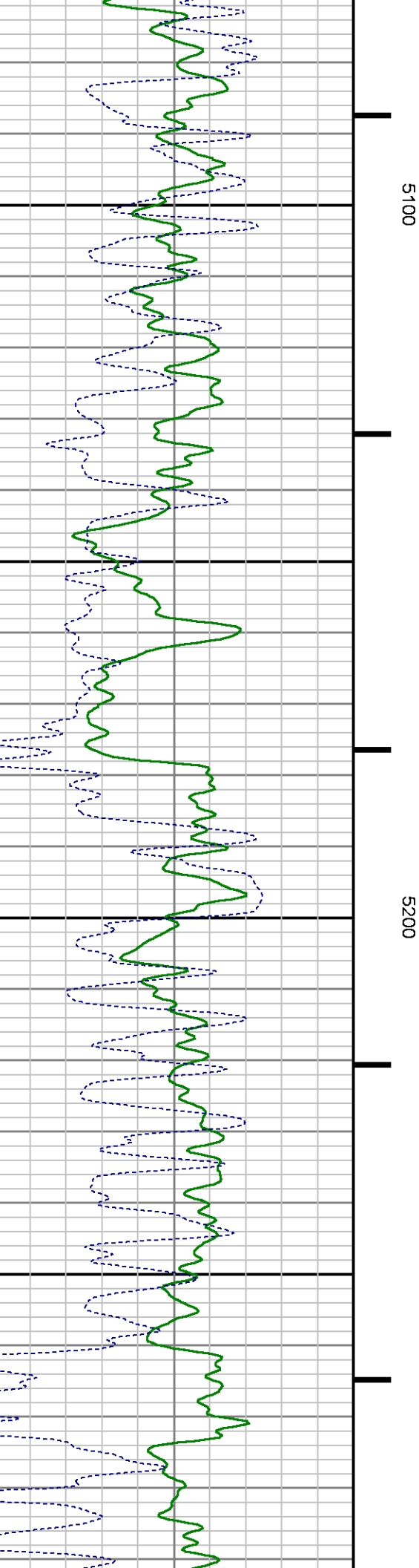
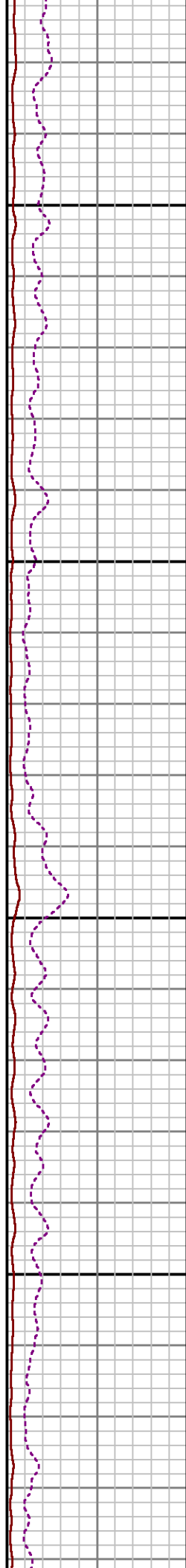
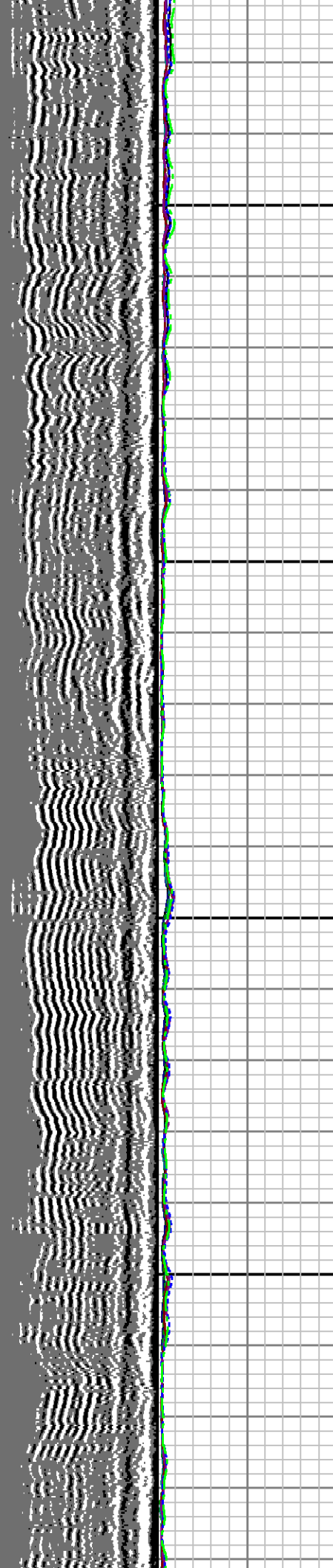
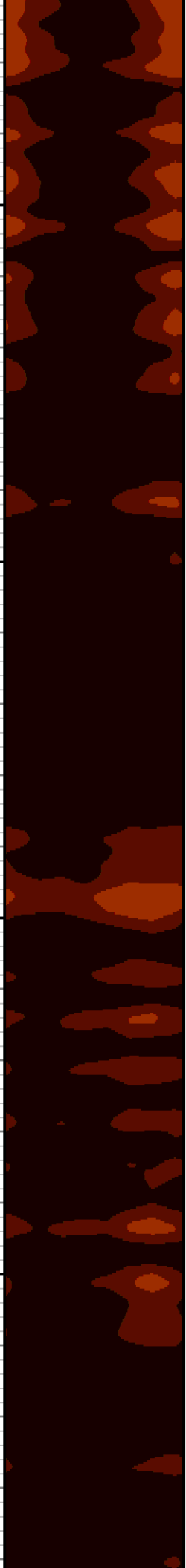


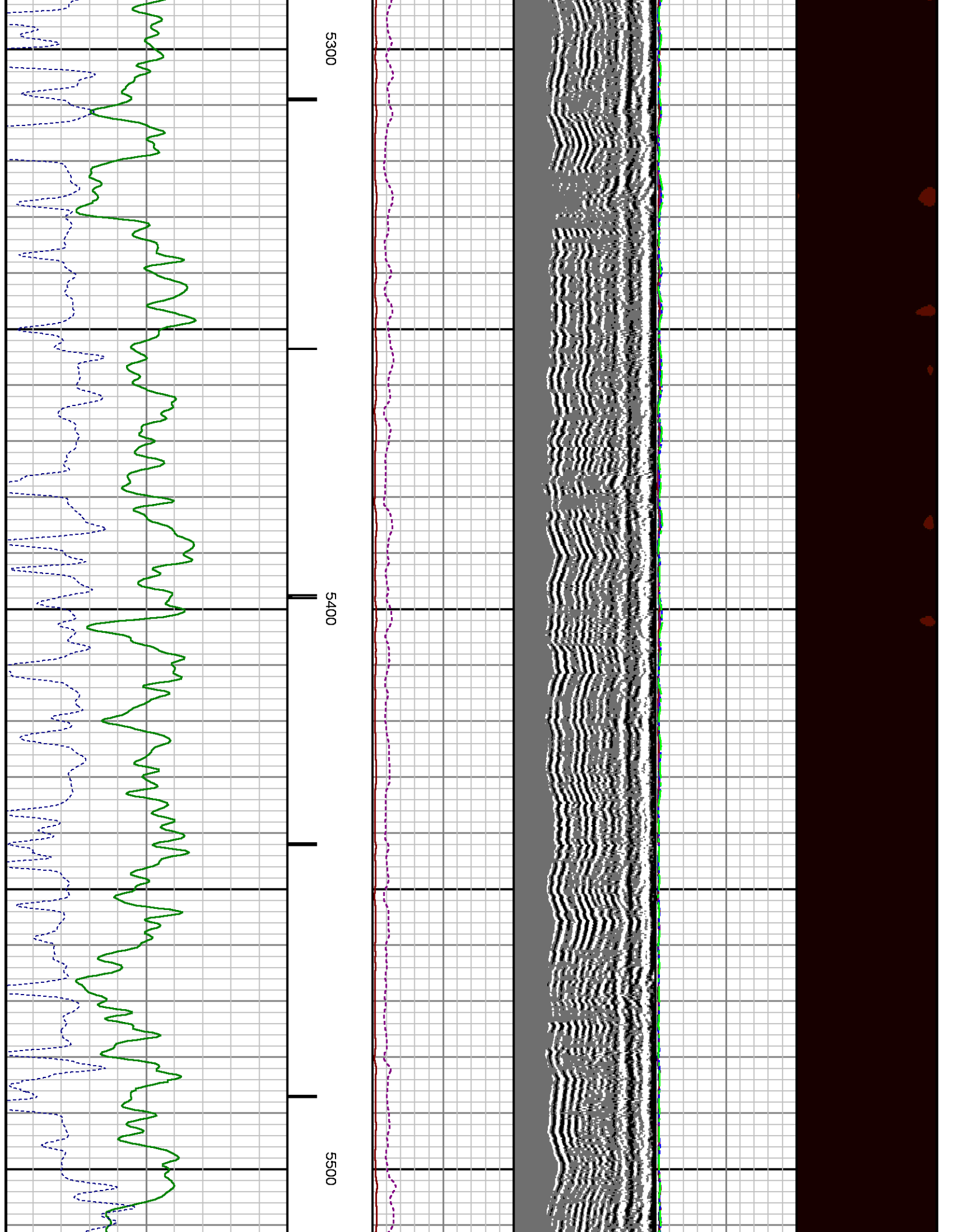


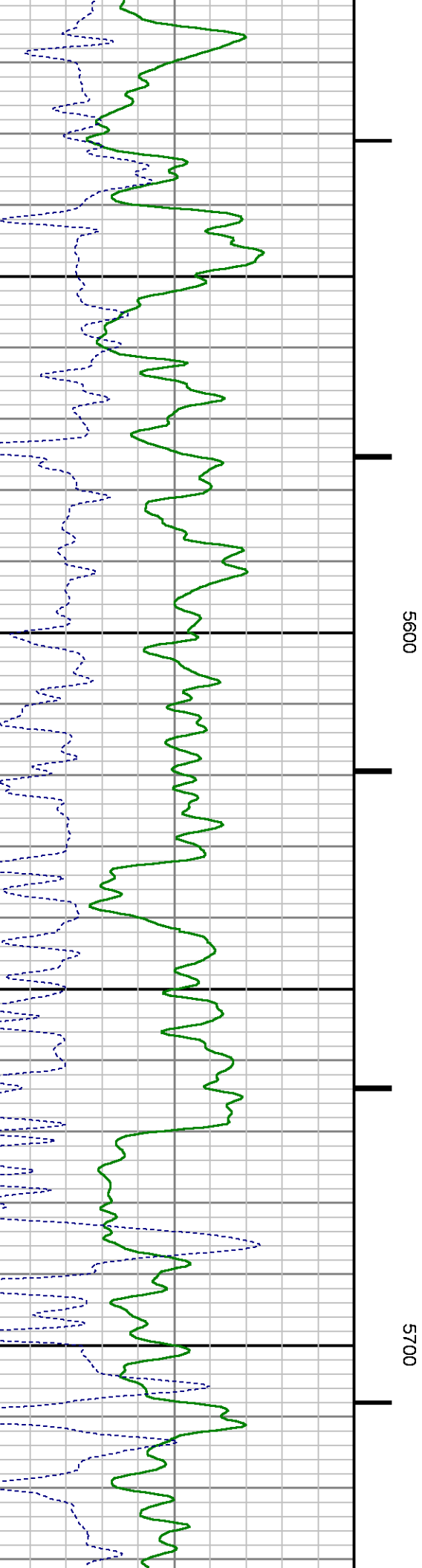
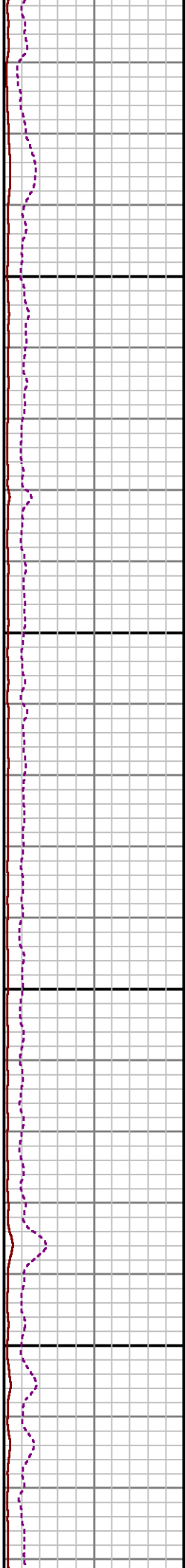
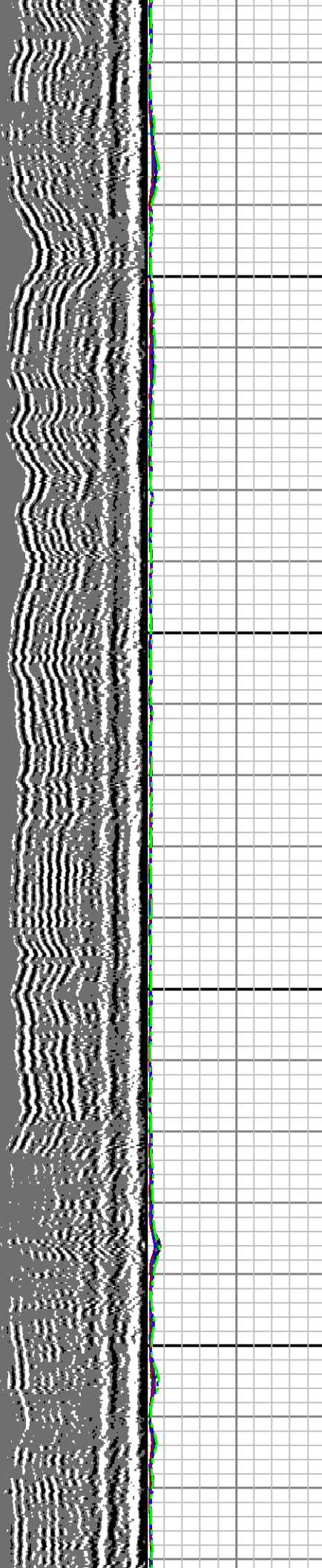


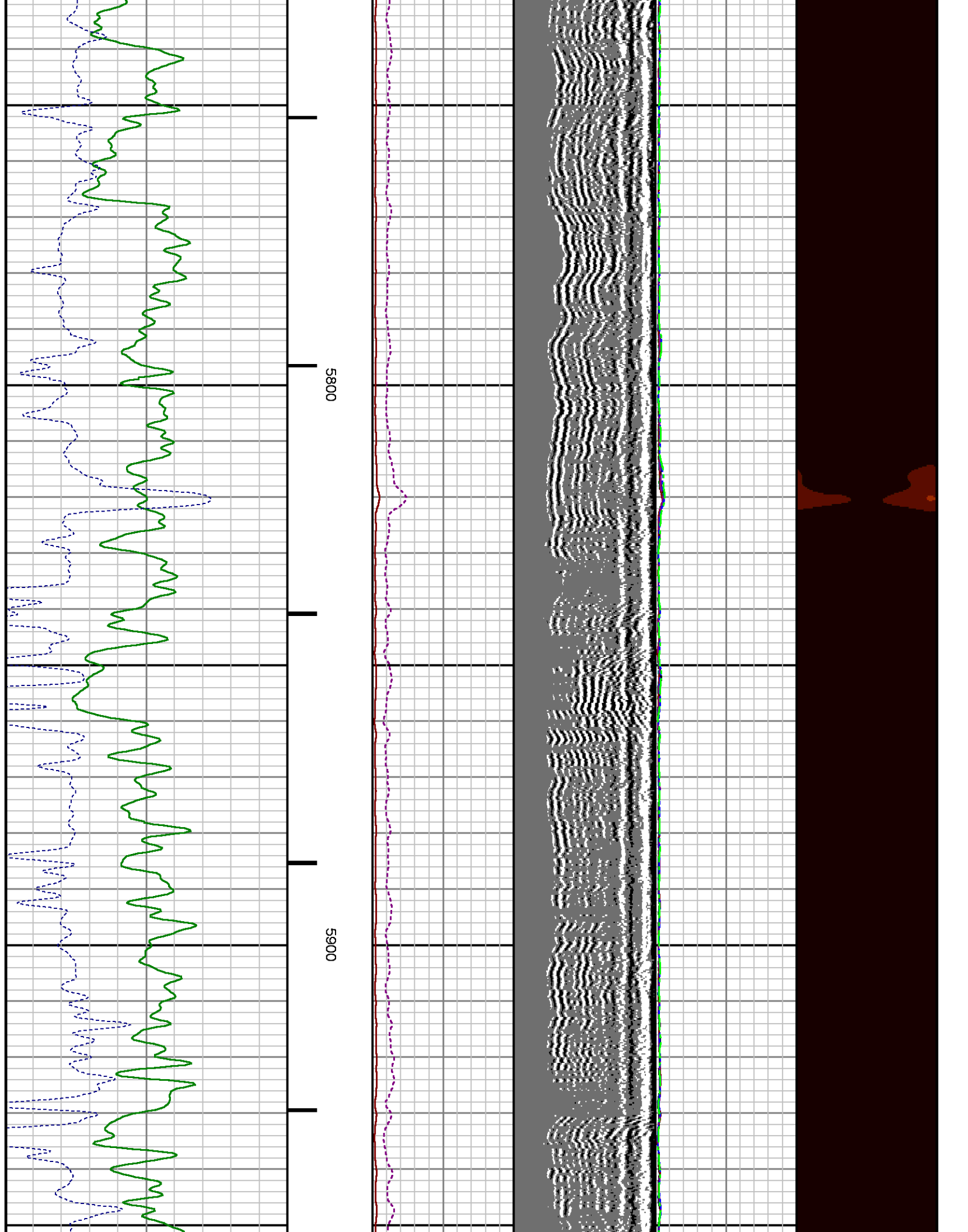


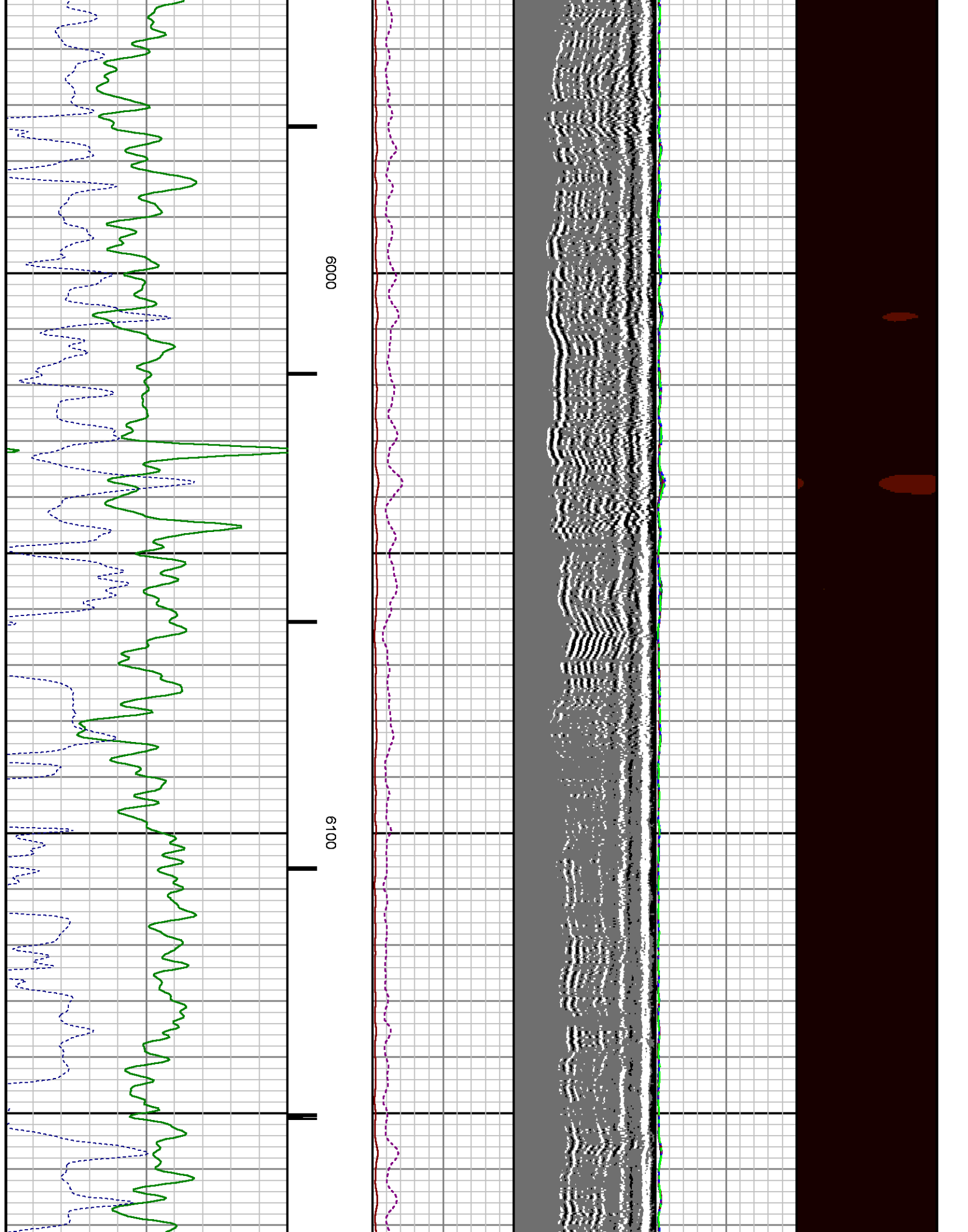


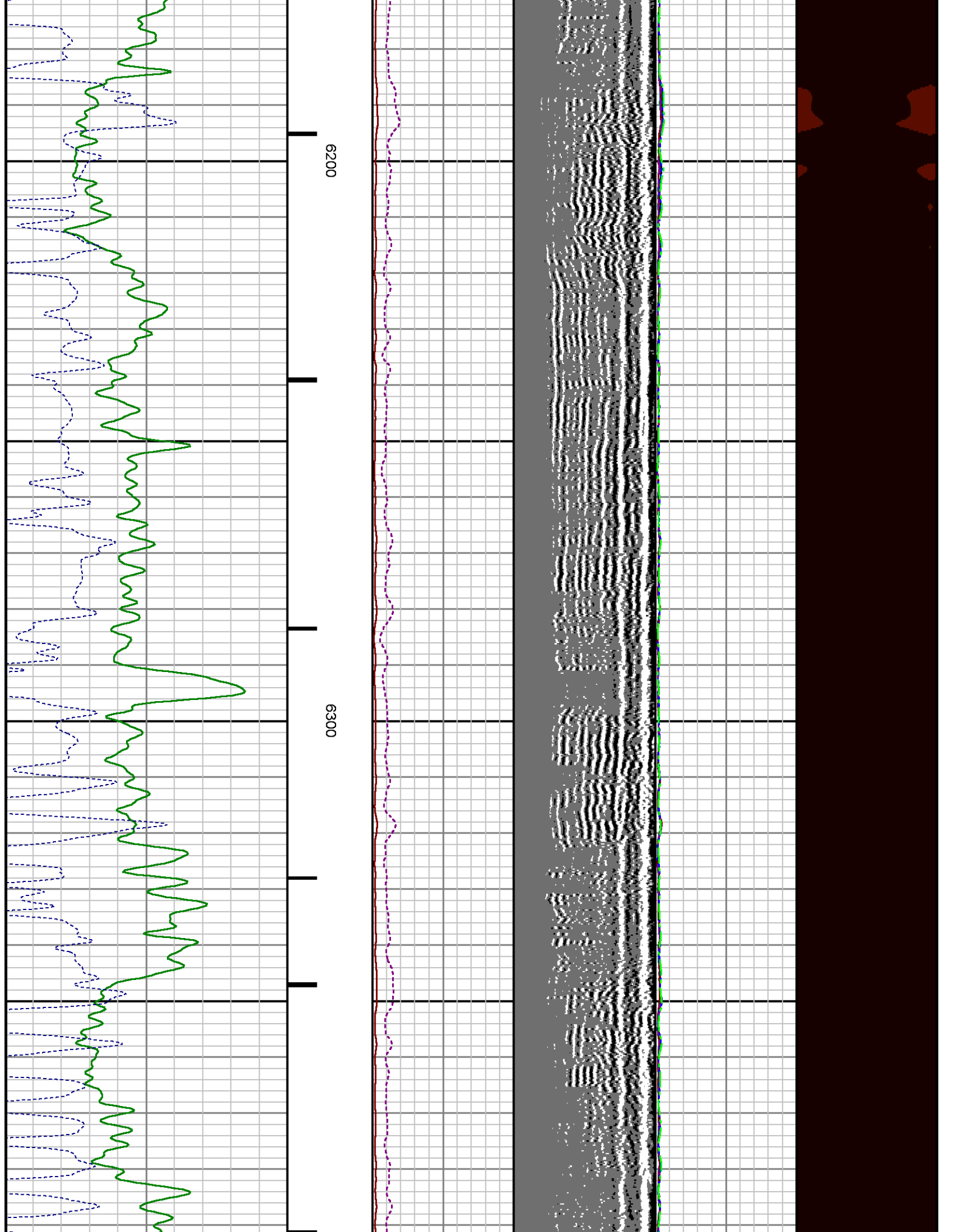


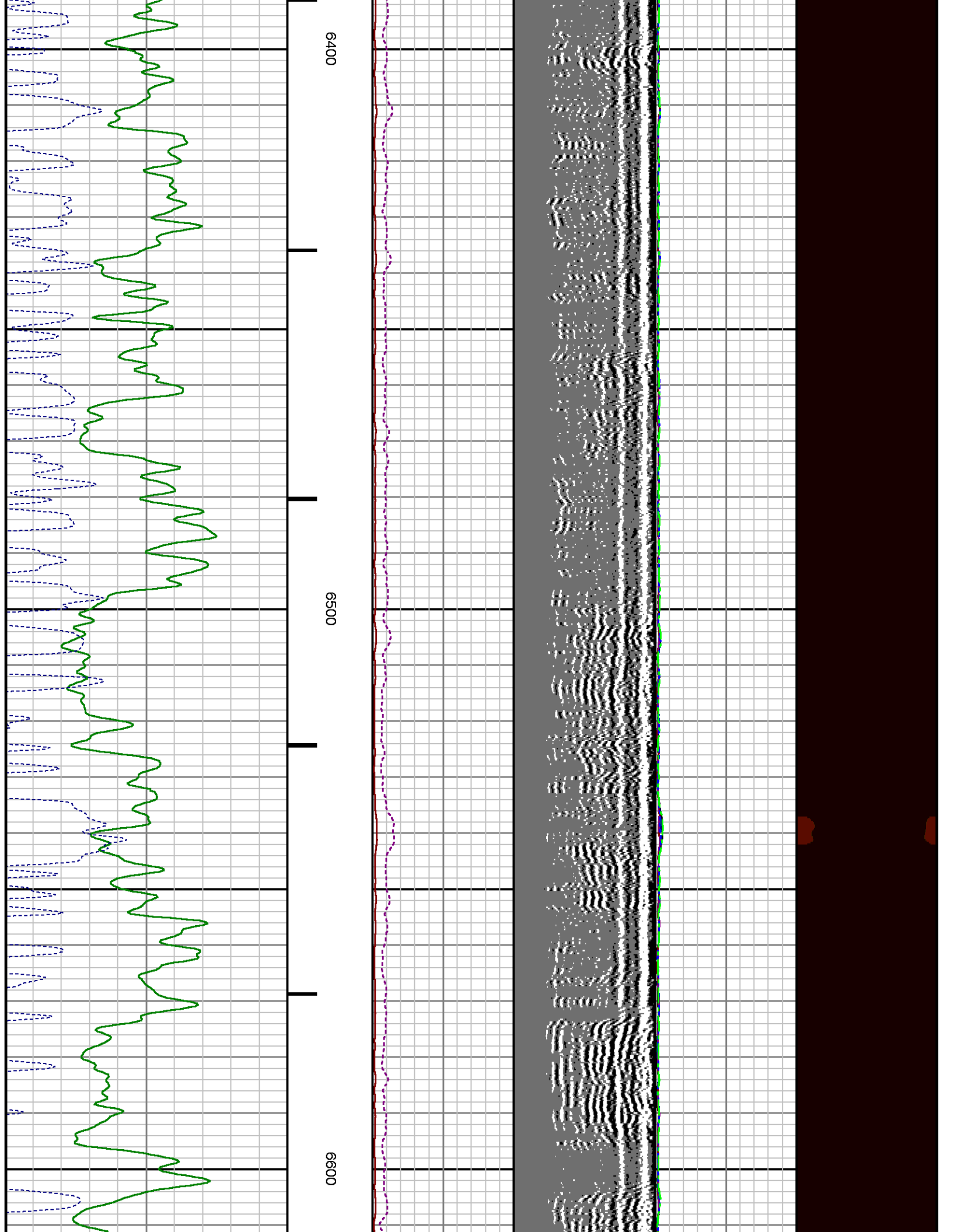


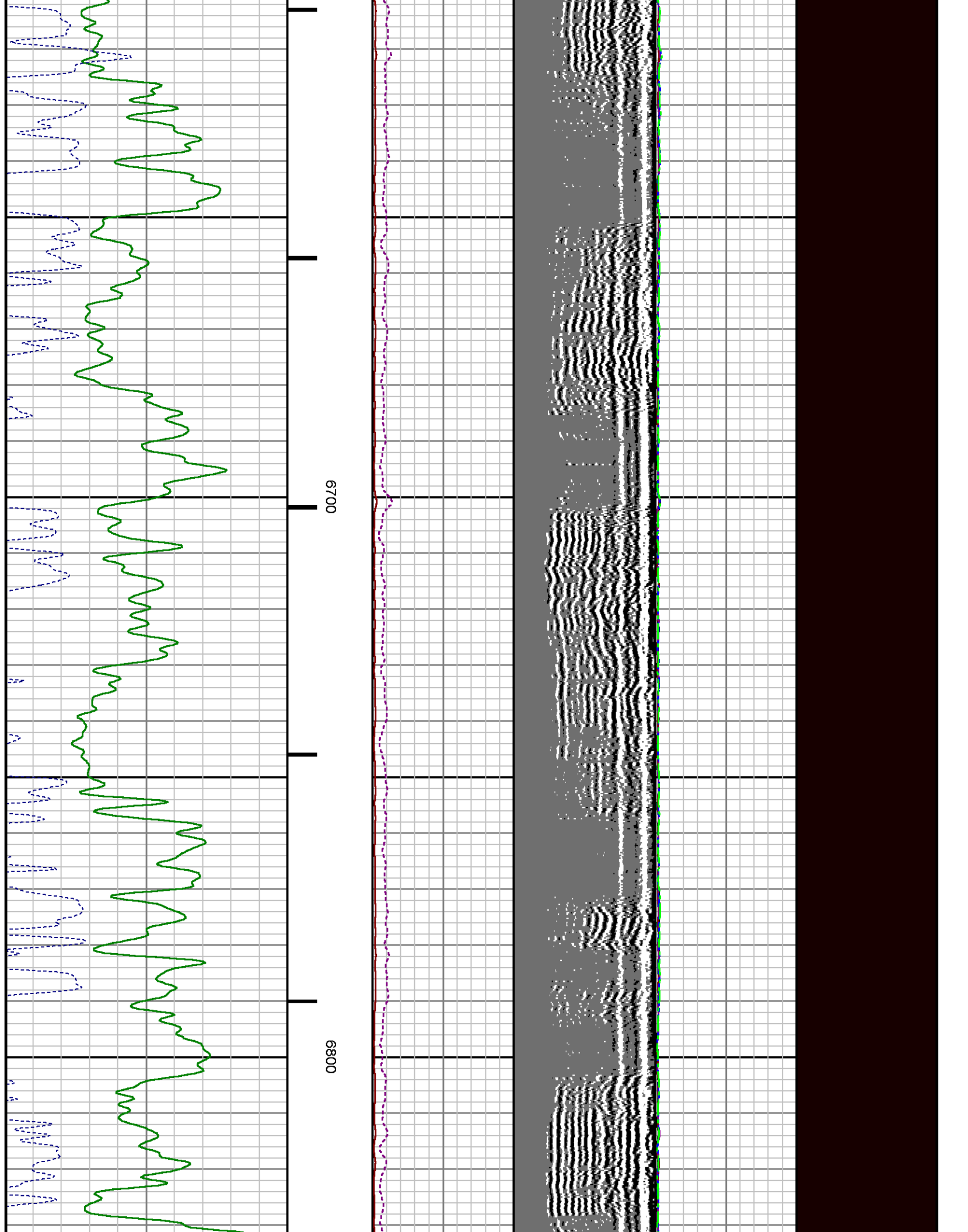


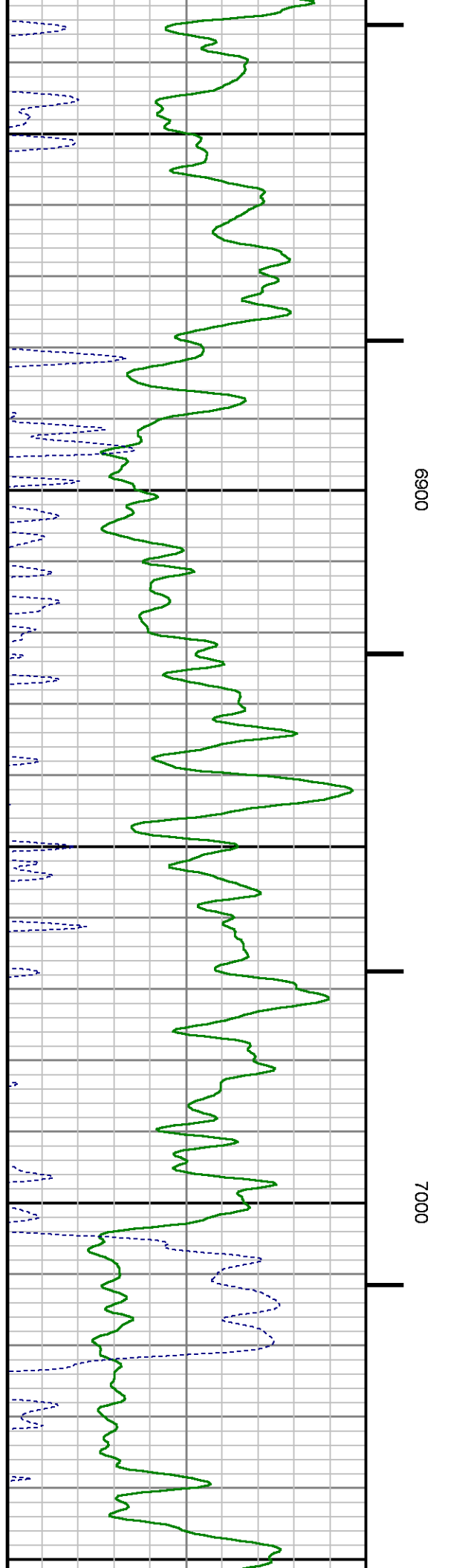
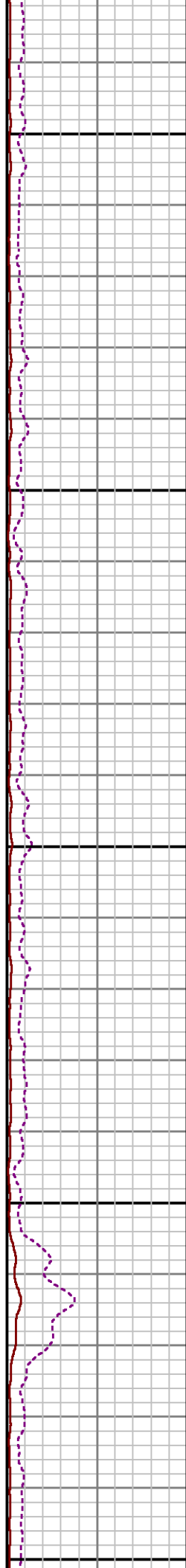
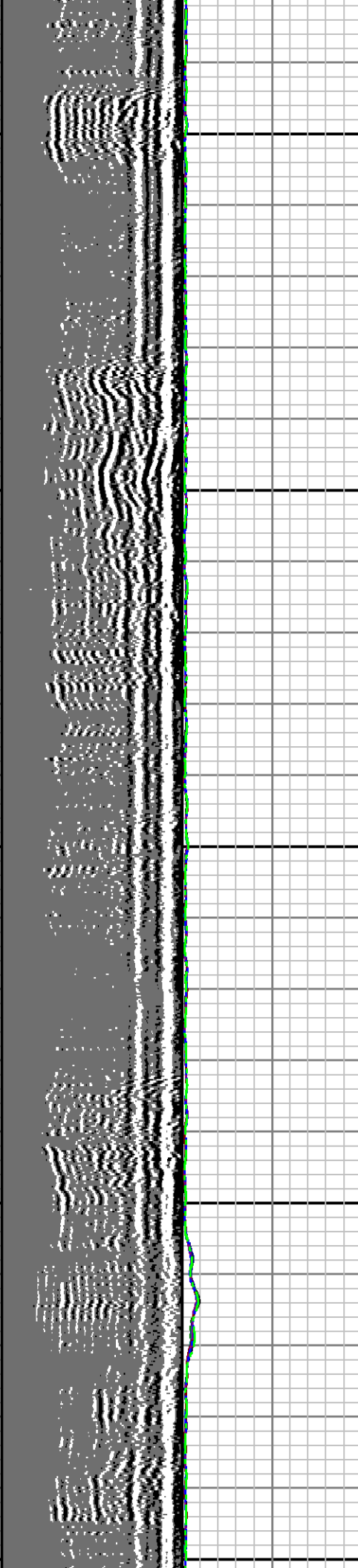


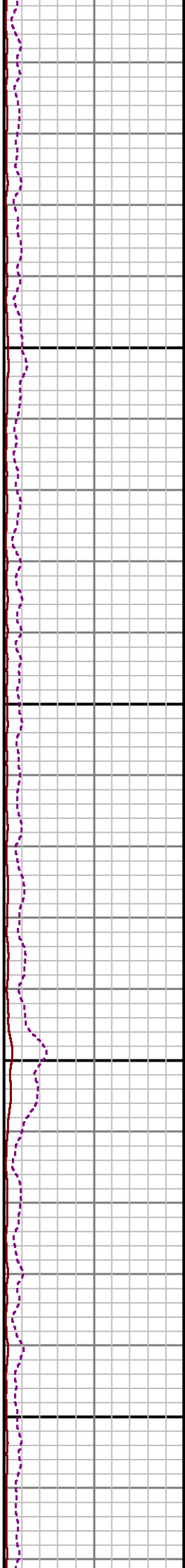
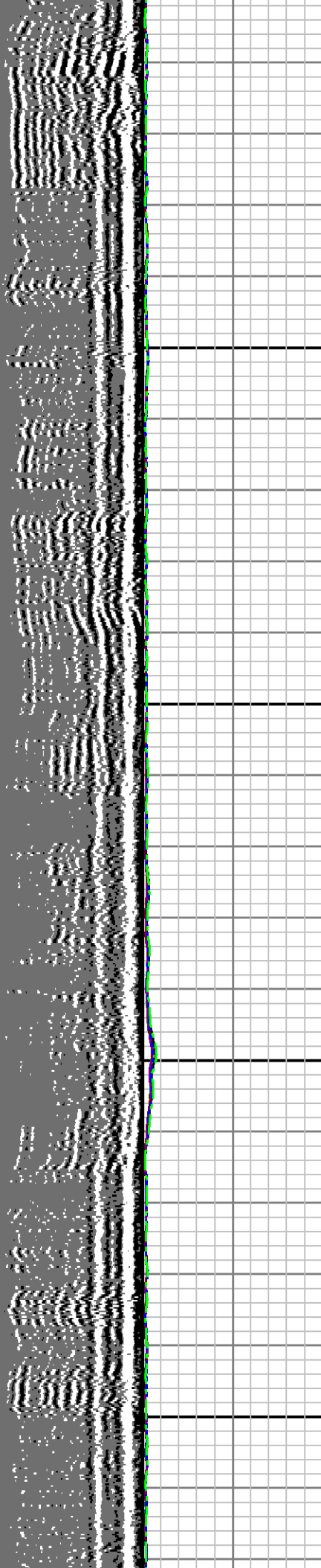






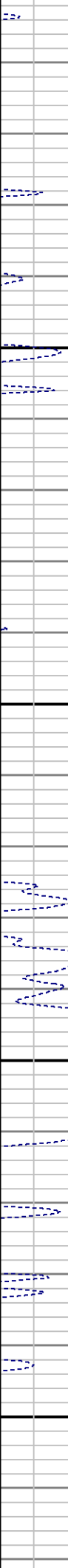
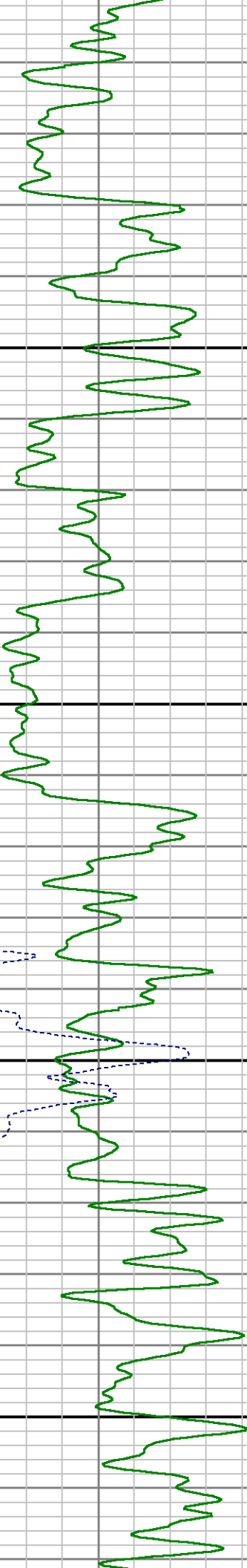


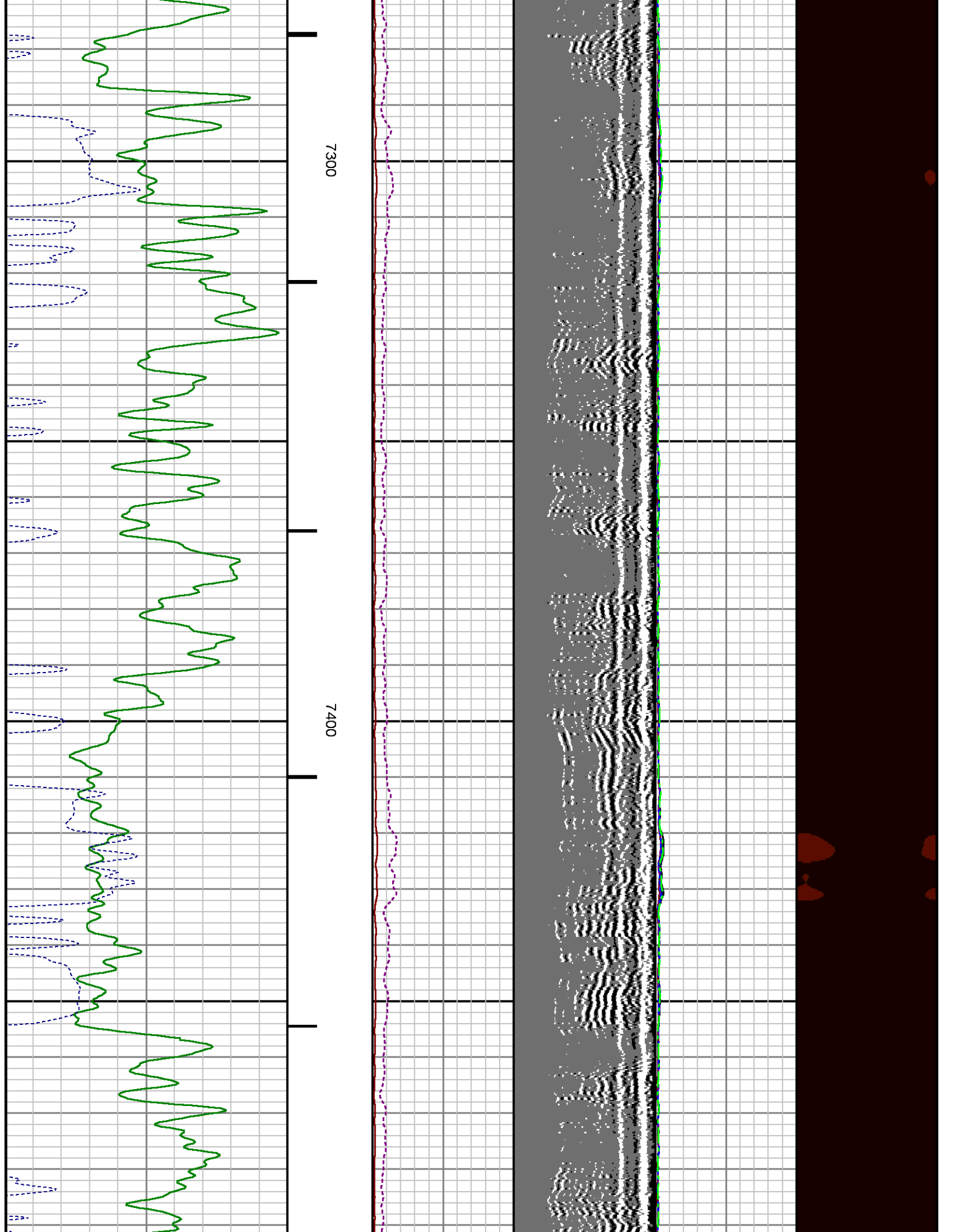


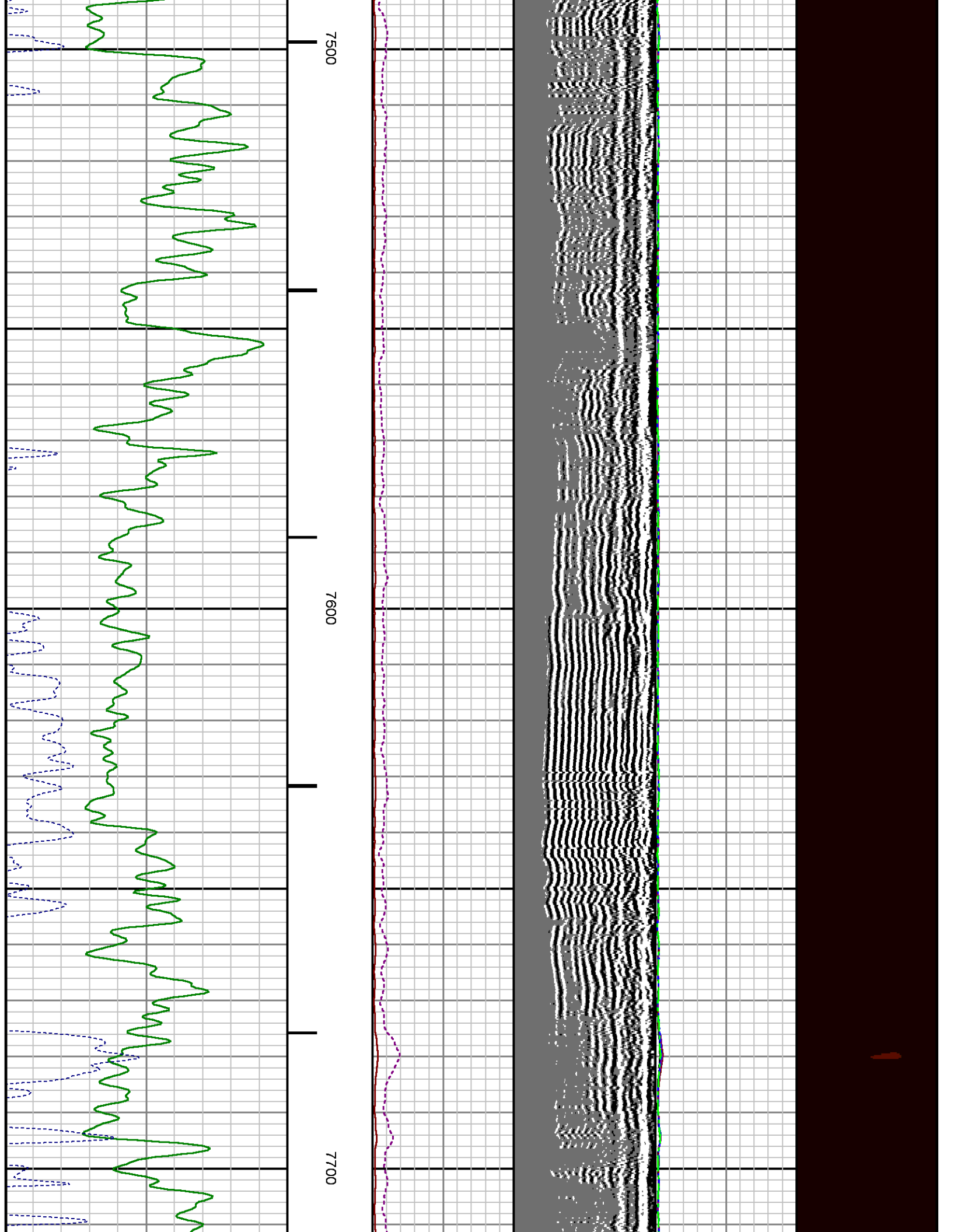


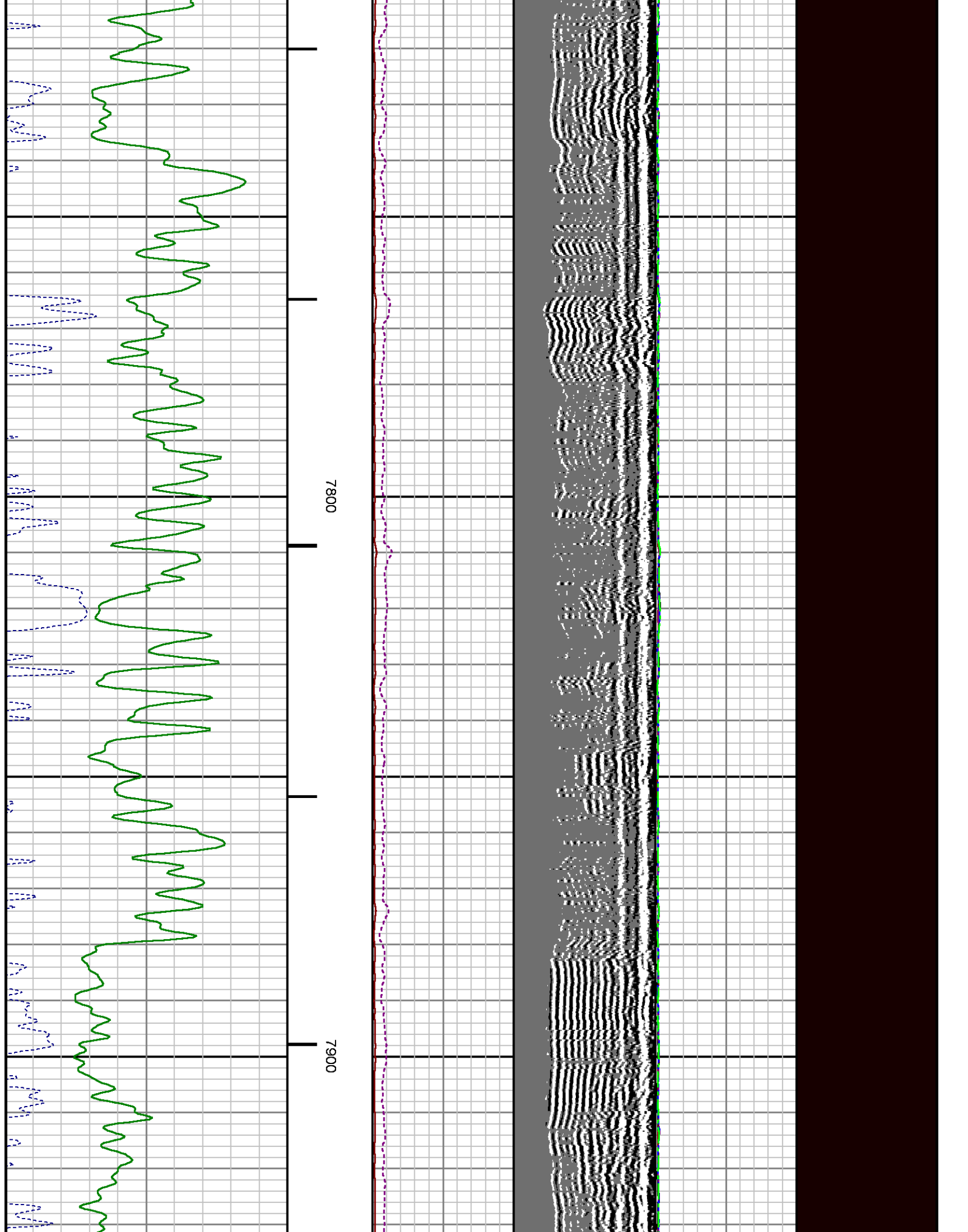
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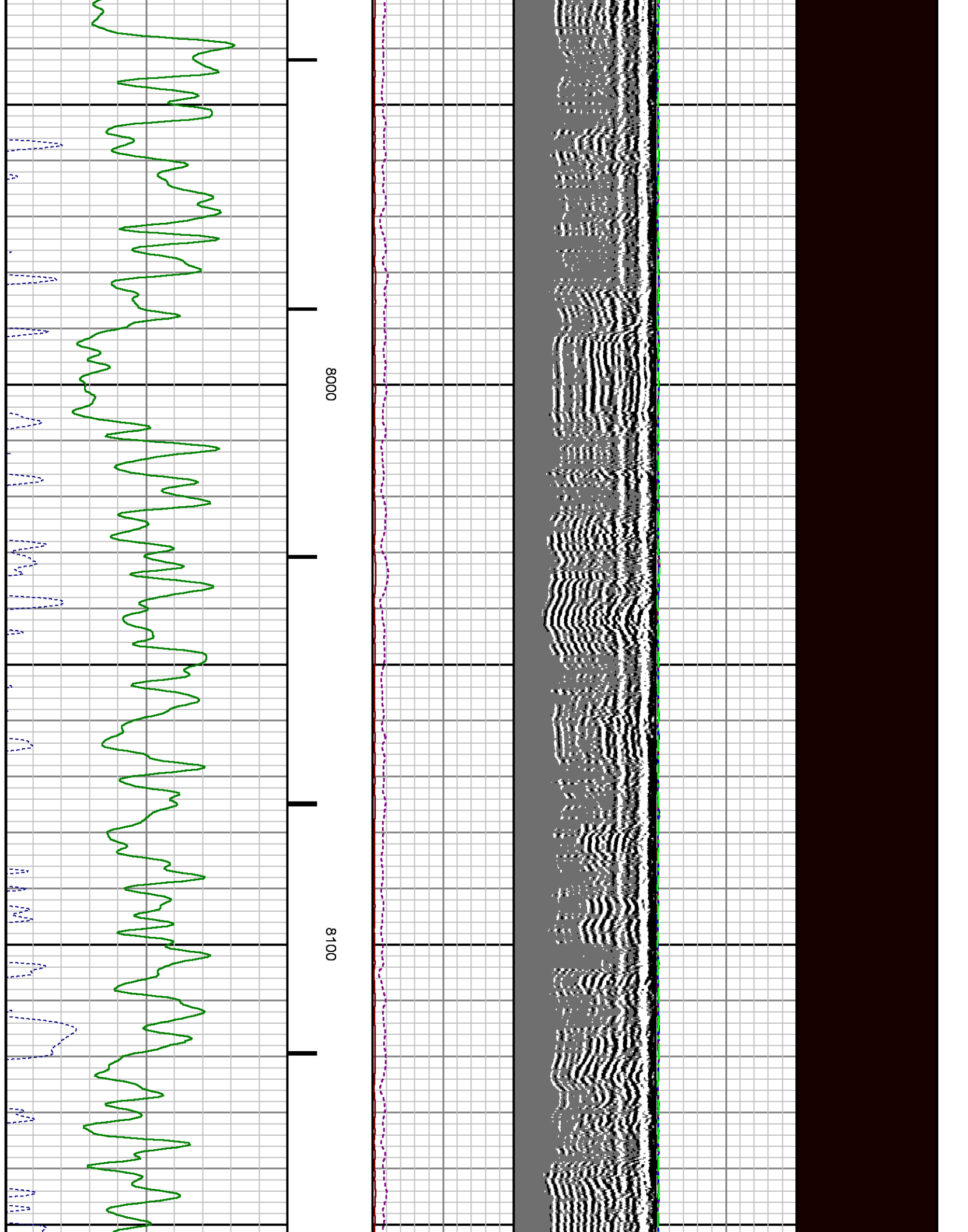
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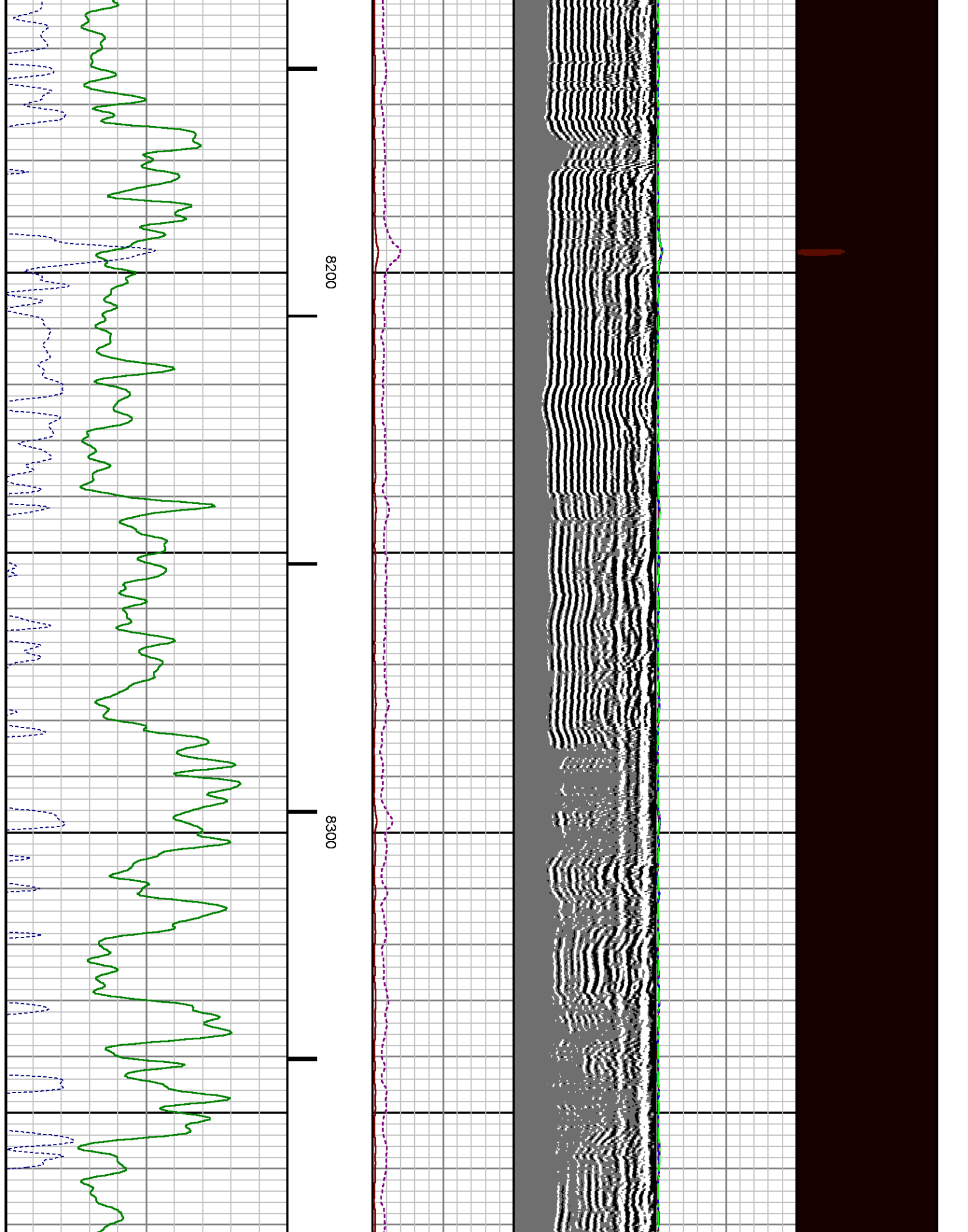


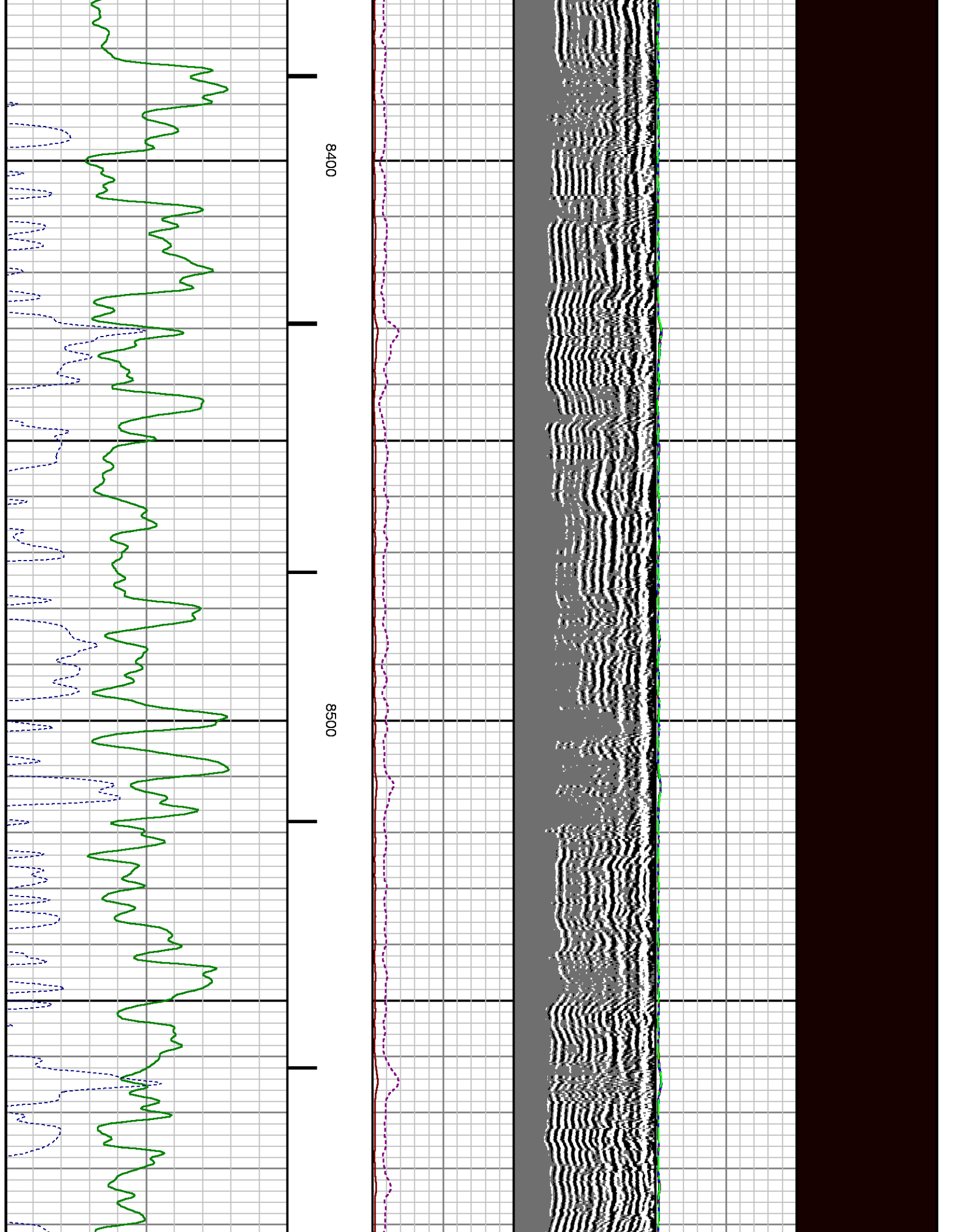


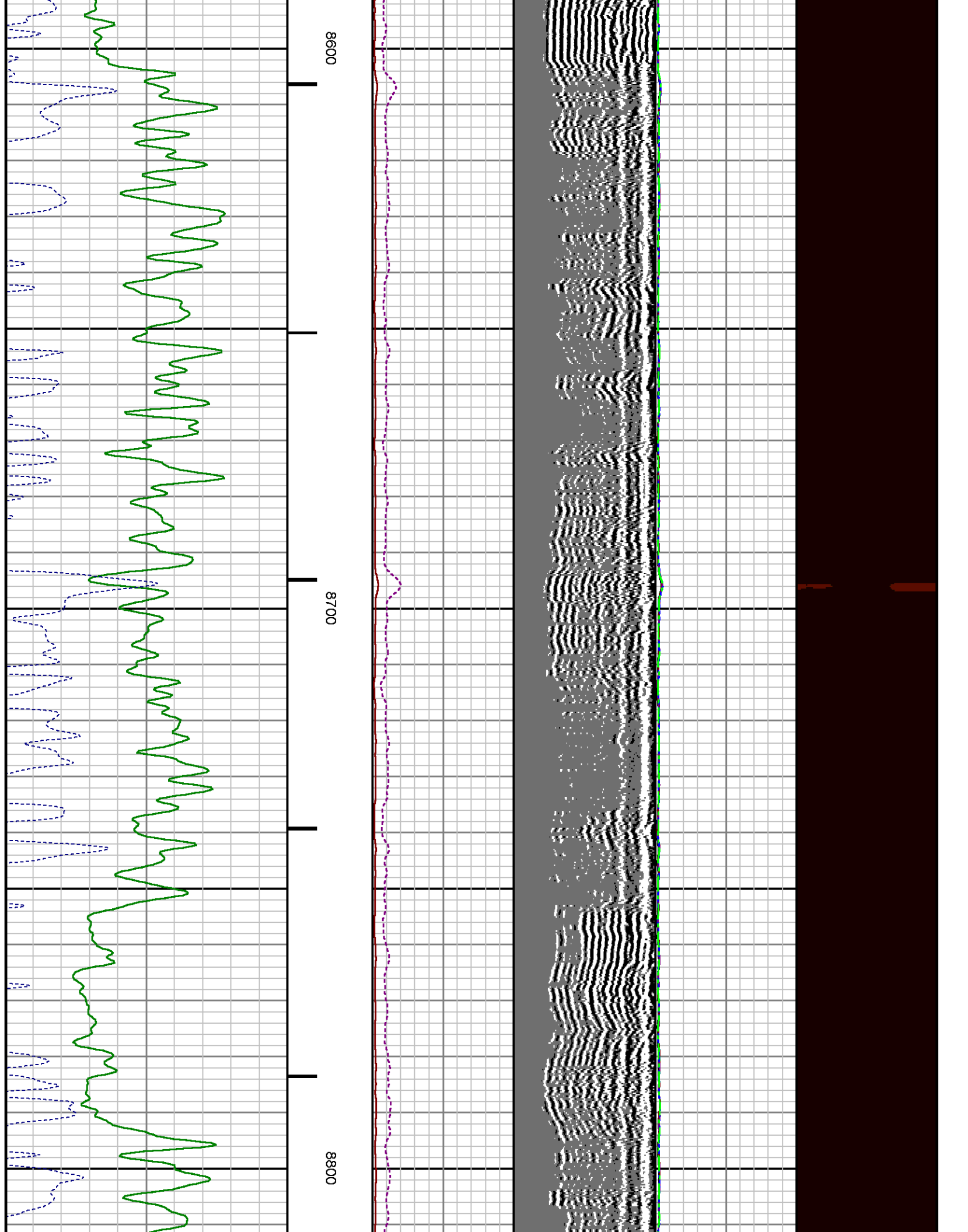


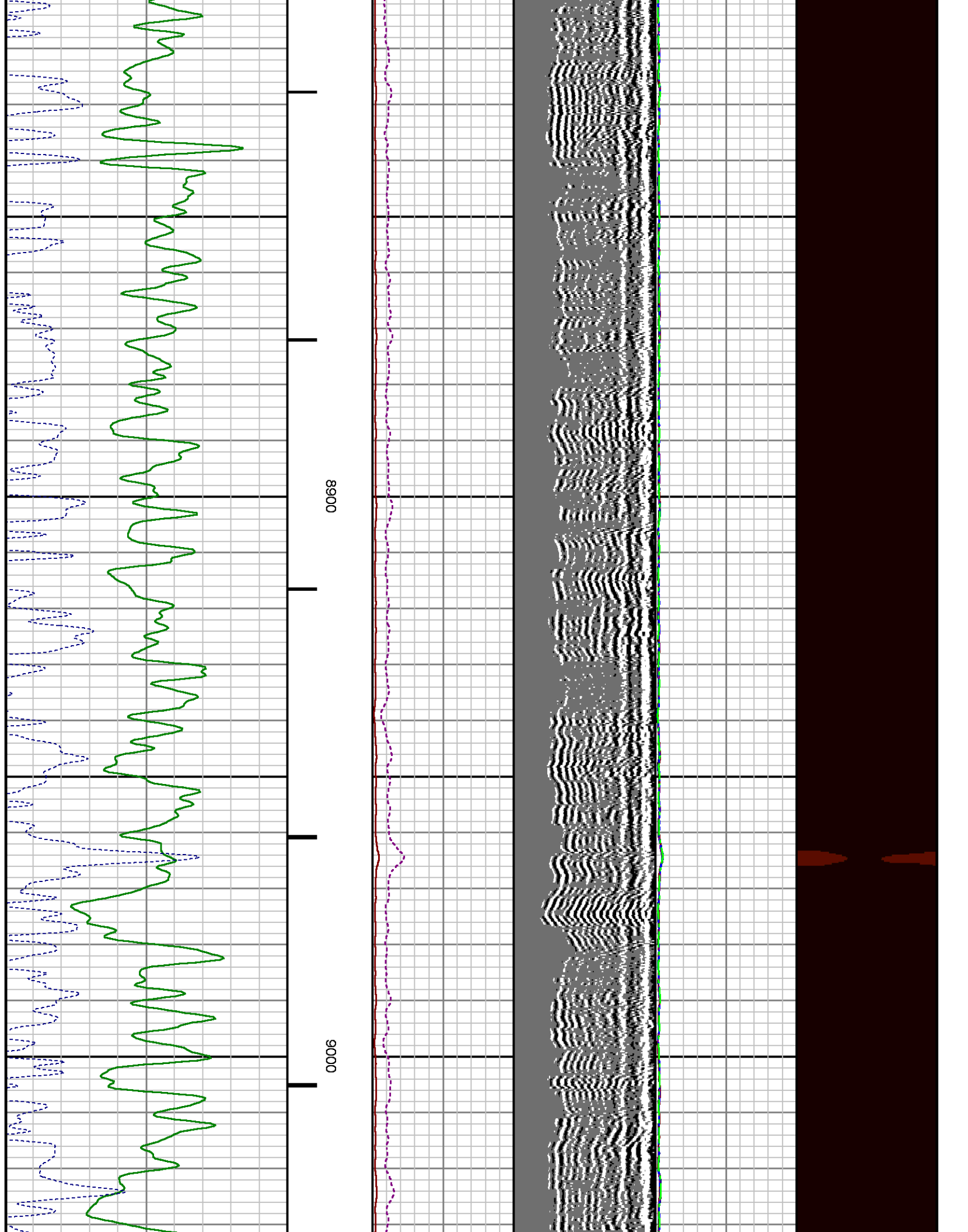


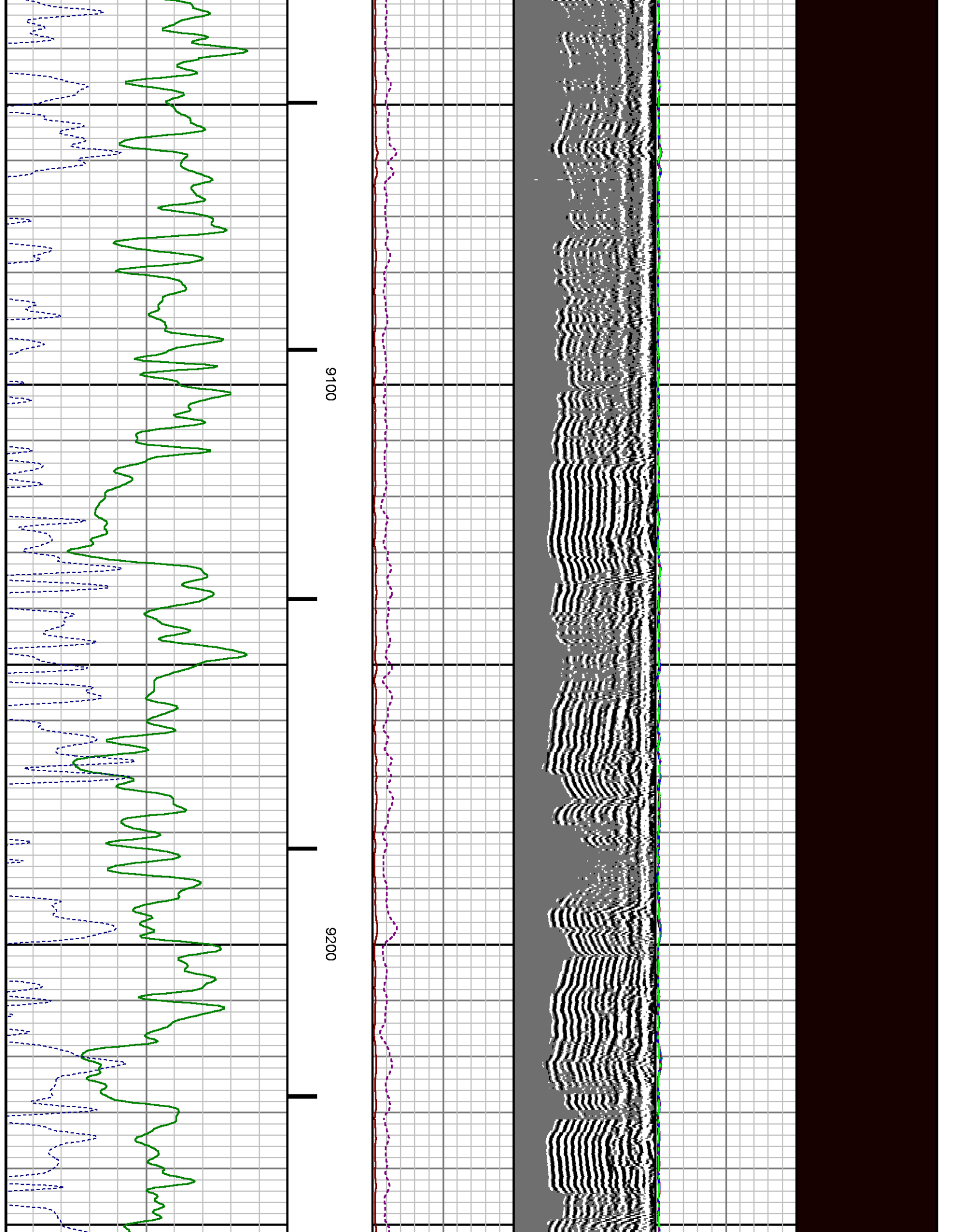


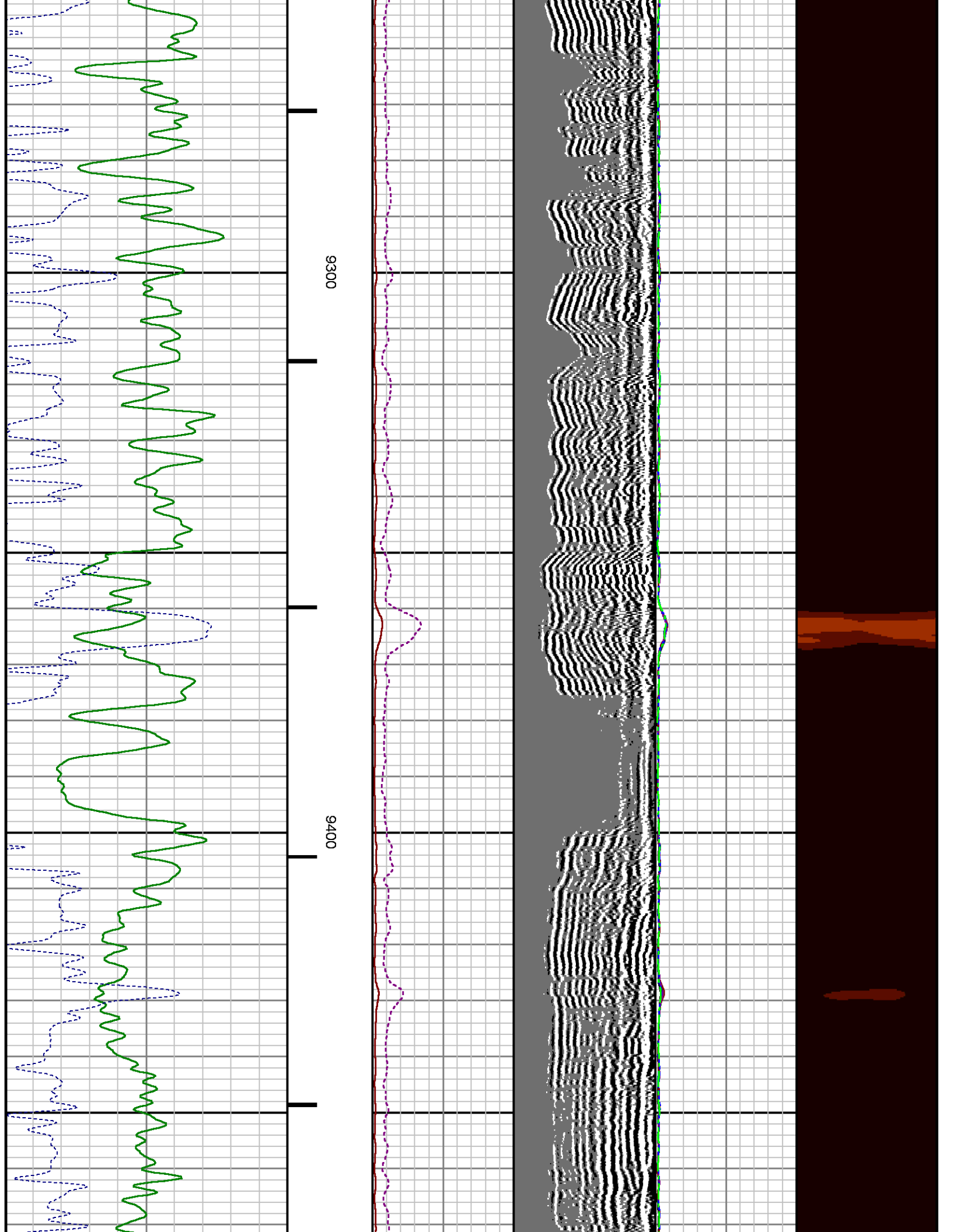


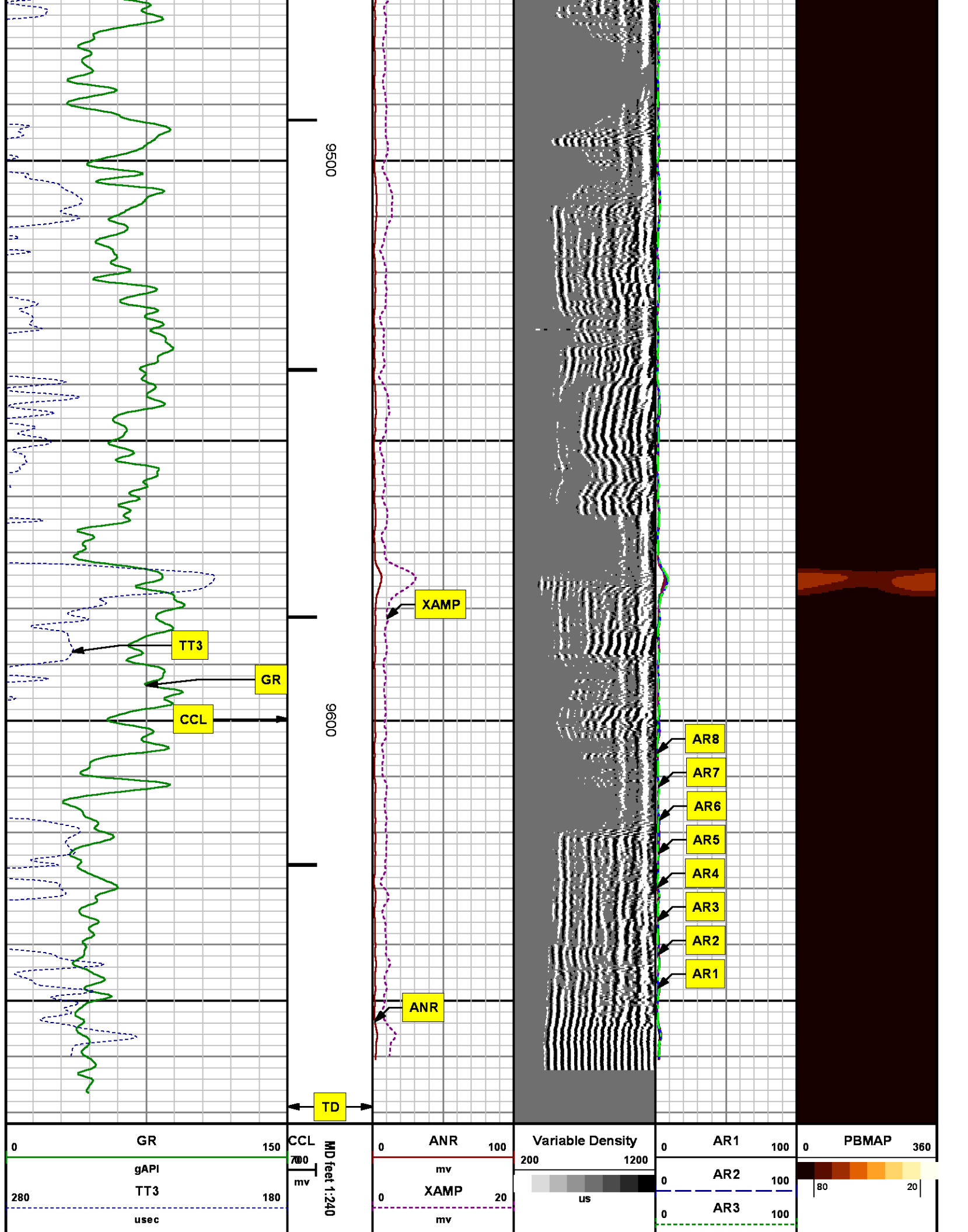












9500

9600

XAMP

ANR

TD

AR8

AR7

AR6

AR5

AR4

AR3

AR2

AR1

GR

gAPI

TT3

usec

TT3

CCL

GR

ANR

mv

XAMP

mv

Variable Density

200 1200

us

AR1

100

AR2

100

AR3

100

PBMAP

0 360

80 20

MD feet 1:240

0	AR4	100
0	AR5	100
0	AR6	100
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	9345.320	9677.320
RAL	Amp Gate Start Near	195.000	usec	9345.320	9677.320
RAL	Amp Gate Start Radial	195.000	usec	9345.320	9677.320
RAL	Amp Gate Width Far	25.000	usec	9345.320	9677.320
RAL	Amp Gate Width Near	25.000	usec	9345.320	9677.320
RAL	Amp Gate Width Radial	25.000	usec	9345.320	9677.320
RAL	casing od	4.500	inches	9345.320	9677.320
RAL	casing wt	11.600	lbm/ft	9345.320	9677.320
RAL	FB Start Far	291.900	usec	9345.320	9677.320
RAL	FB Start Near	175.391	usec	9345.320	9677.320
RAL	FB Start Radial	175.391	usec	9345.320	9677.320
RAL	FB Thresh Far	10.000	mv	9345.320	9677.320
RAL	FB Thresh Near	4.000	mv	9345.320	9677.320
RAL	FB Thresh Radial	4.000	mv	9345.320	9677.320
RAL	Fluid Travel Time	200.000	usec/ft	9345.320	9677.854

DEPTH OFFSETS
 (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3

1426XA -11.360
2459XA -7.250
2459XA -5.390
2459XA 0.000

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

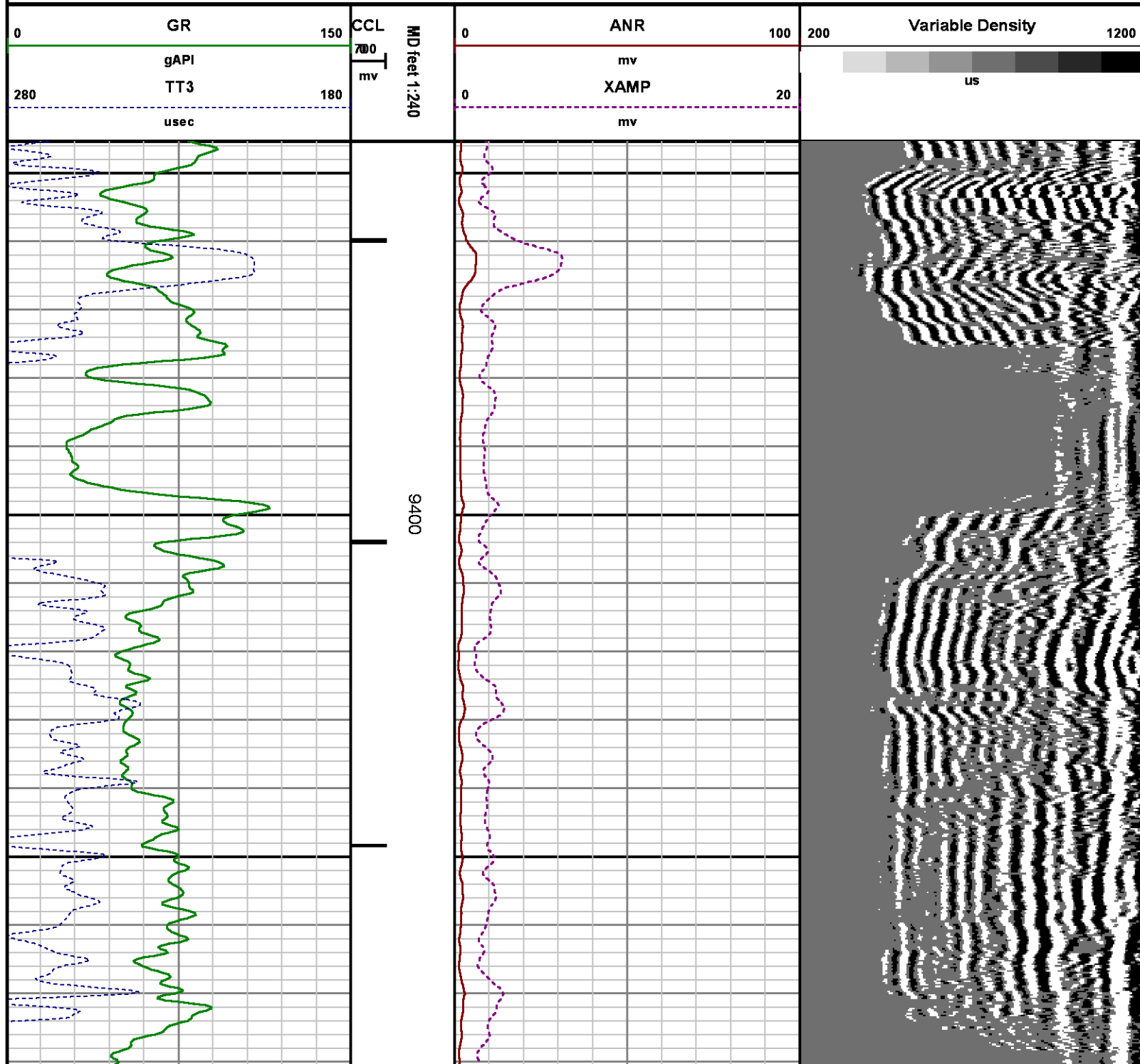
Well : AP 523-17-695

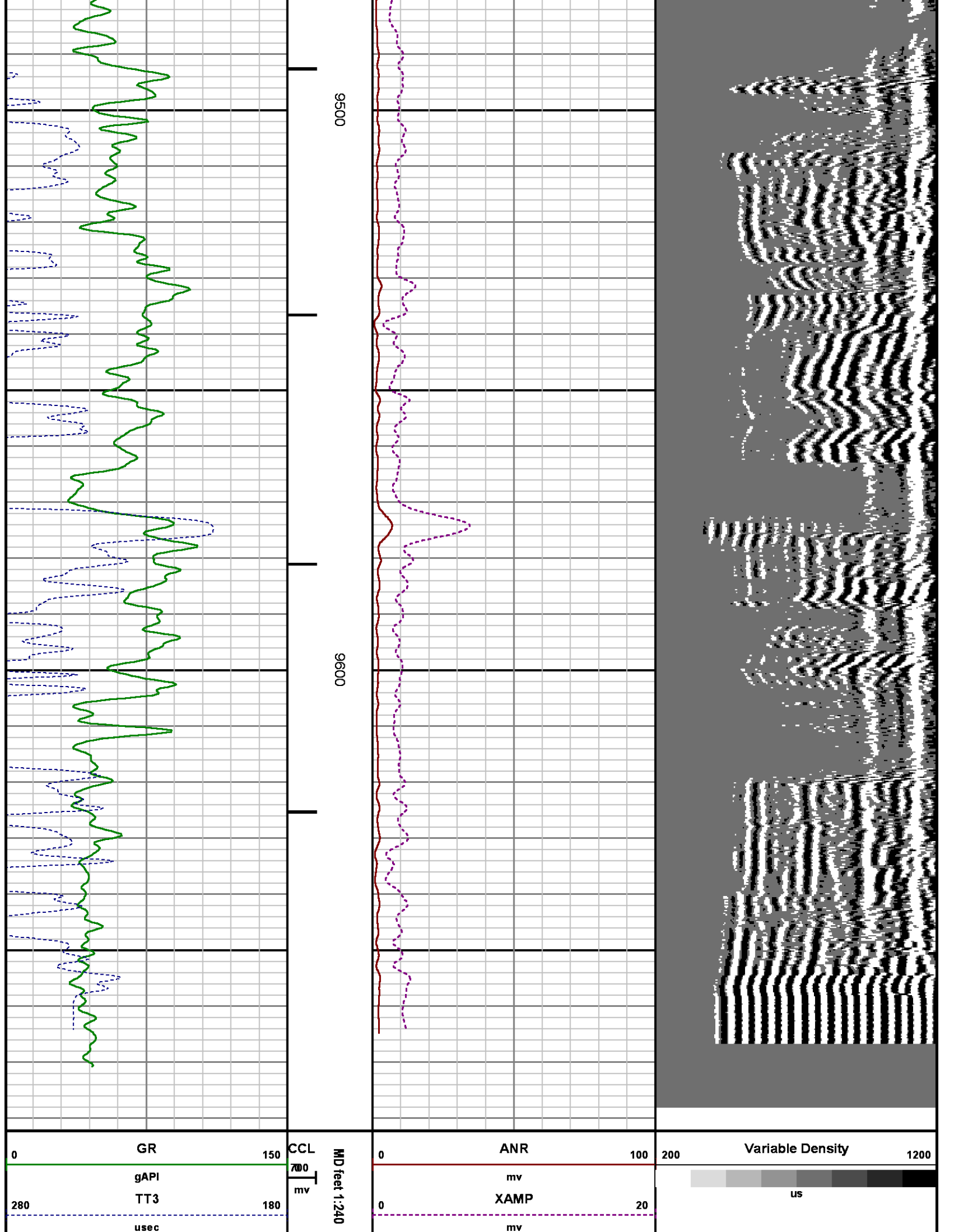
File Name : d:\well\data\wpx\ap 523-17-695\523cb\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 9345.32 - 9682.32 feet UP

Created : 10/12/2014 10:14:07 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\49512_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Oct 12 06:19:24 2014 TOOL SERIES: 1426XA ASSET: 495 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	217	216	30	166	25	-0.441	100.00	0.26
3 Ft. Receiver	217	216	30	166	15	-0.086	100.00	0.26
5 Ft. Receiver	327	325	30	257	42	4.275	150.00	0.29
Radial #1	218	216	30	166	17	0.856	100.00	0.26
Radial #2	216	216	30	166	17	0.475	100.00	0.26
Radial #3	216	216	30	166	17	0.682	100.00	0.26
Radial #4	215	216	30	166	17	0.481	100.00	0.26
Radial #5	216	216	30	166	17	0.518	100.00	0.26
Radial #6	215	216	30	166	17	0.236	100.00	0.26
Radial #7	216	216	30	166	17	0.336	100.00	0.26
Radial #8	218	216	30	166	17	0.694	100.00	0.26

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\495012 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Oct 12 09:34:08 2014 TOOL SERIES: 1426XA ASSET: 495 SEQ: 012

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	0.032	0.000	0.98	100.000
3 Ft. Receiver	195	25	0.907			
5 Ft. Receiver	305	25	2.635			

Radial #1	195	25	0.515
Radial #2	195	25	0.574
Radial #3	195	25	0.474
Radial #4	195	25	0.315
Radial #5	195	25	0.341
Radial #6	195	25	0.612
Radial #7	195	25	0.699
Radial #8	195	25	0.672

GAMMA RAY

Calibration File: C:\case\calver\GR\503O8.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Oct 08 09:03:02 2014 TOOL SERIES: 2459XA ASSET: 503 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	110.22	393.29	0.654	72.04	257.04	185.00

Verification File: C:\case\calver\GR\503O8.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Wed Oct 08 09:04:12 2014 TOOL SERIES: 2459XA ASSET: 503 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	101.07	384.62	0.654	66.05	251.37	185.32

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



21.81'
XMIT 15.62'

Press Rating 18000.00 PSI

NEAR RCVR 12.54'
FAR RCVR 10.62'
CCL 8.92'
GR 7.06'
NEU 1.67'
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

Total Length: 21.81'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas

CASE

Company

WPX ENERGY

Well

AP 523-17-695

Field

PARACHUTE

County

GARFIELD

State

CO

File No:

CH091481

API No:

05045213790000

Location

SHL: 23' FNL & 2497' FWL (20 6S 95W)

BHL: 1571' FSL & 2220' FWL (17 6S 95W)

Elevations

KB 6935 ft

DF

GL 6909 ft

17 6S 95W

AP 21-20-695 PAD

NABORS 573

SEC 17 TWP 6S RGE 95W