



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH084621

Company WPX ENERGY

Well WPX ENERGY PA 14-2

Field PARACHUTE

Country GARFIELD

State COLORADO

API No. 05045221370000

Location: SHL: 2021' FSL & 1564' FWL

BHL: 1218' FSL & 652' FWL

SEC: 2 TWP: 7S RGE: 9SW

Permanent Datum GL Elevation 5821 ft

Log Measured From KB 25 ft Above P. D.

Drill Measured From KELLY BUSHING

Other Services RPM

Elevations KB 5846 ft

DF

GL 5821 ft

Date 06/APR/14

Run ONE

Service Order US628375

Depth Driller 7528 ft

Depth Logger 7491 ft

Bottom Logged Interval 7481 ft

Top Logged Interval 25 ft

Time Started 1130

Time Finished 1400

Operator Rig Time 2.5 HRS

Type of Fluid in Hole WATER

Fluid Density NA

Fluid Salinity NA

Fluid Level 64 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 220 degF

Reference Log NONE

Reference Log Date NA

Equipment 4271

Recorded By FLOYD RENEAU

Witnessed By GRAND JCT

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	25 ft	1069 ft
8.75 in	1069 ft	7528 ft

Casing Record

Size	Weight	Grade	From	To
9.625 in			25 ft	1069 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	7528 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 8 feet.

Logged with zero PSI at wellhead.

BHT = 220 °F

SJ = 3893'-3917'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	FREE
1	1	GR/CCL	2459XA	10417456	FREE

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	34.937	7496.000
RAL	Amp Gate Start Near	195.000	usec	34.937	7496.000
RAL	Amp Gate Start Radial	195.000	usec	34.937	7496.000
RAL	Amp Gate Width Far	25.000	usec	34.937	7496.000
RAL	Amp Gate Width Near	25.000	usec	34.937	7496.000
RAL	Amp Gate Width Radial	25.000	usec	34.937	7496.000
RAL	casing od	4.500	inches	34.937	7496.000
RAL	casing wt	11.600	lbm/ft	34.937	7496.000
RAL	FB Start Far	291.900	usec	34.937	7496.000
RAL	FB Start Near	180.000	usec	34.937	7496.000
RAL	FB Start Radial	180.000	usec	34.937	7496.000
RAL	FB Thresh Far	15.000	mv	34.937	7496.000
RAL	FB Thresh Near	10.000	mv	34.937	7496.000
RAL	FB Thresh Radial	10.000	mv	34.937	7496.000
RAL	Fluid Travel Time	200.000	usec/ft	34.937	7495.937

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 : WPX ENERGY PA 14-2

File Name : d:\welldata\wpx\pa 14-2\14ral\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 7496.00 feet UP

Created : 4/6/2014 12:06:27 PM

0

GR

150

gAPI

TT3

u sec

300

MD feet 1:240

500

m v

CCL

TT3

0

ANR

100

m v

XAMP

m v

200

Variable Density

1200

us

WELLHEAD

FLUID LEVEL

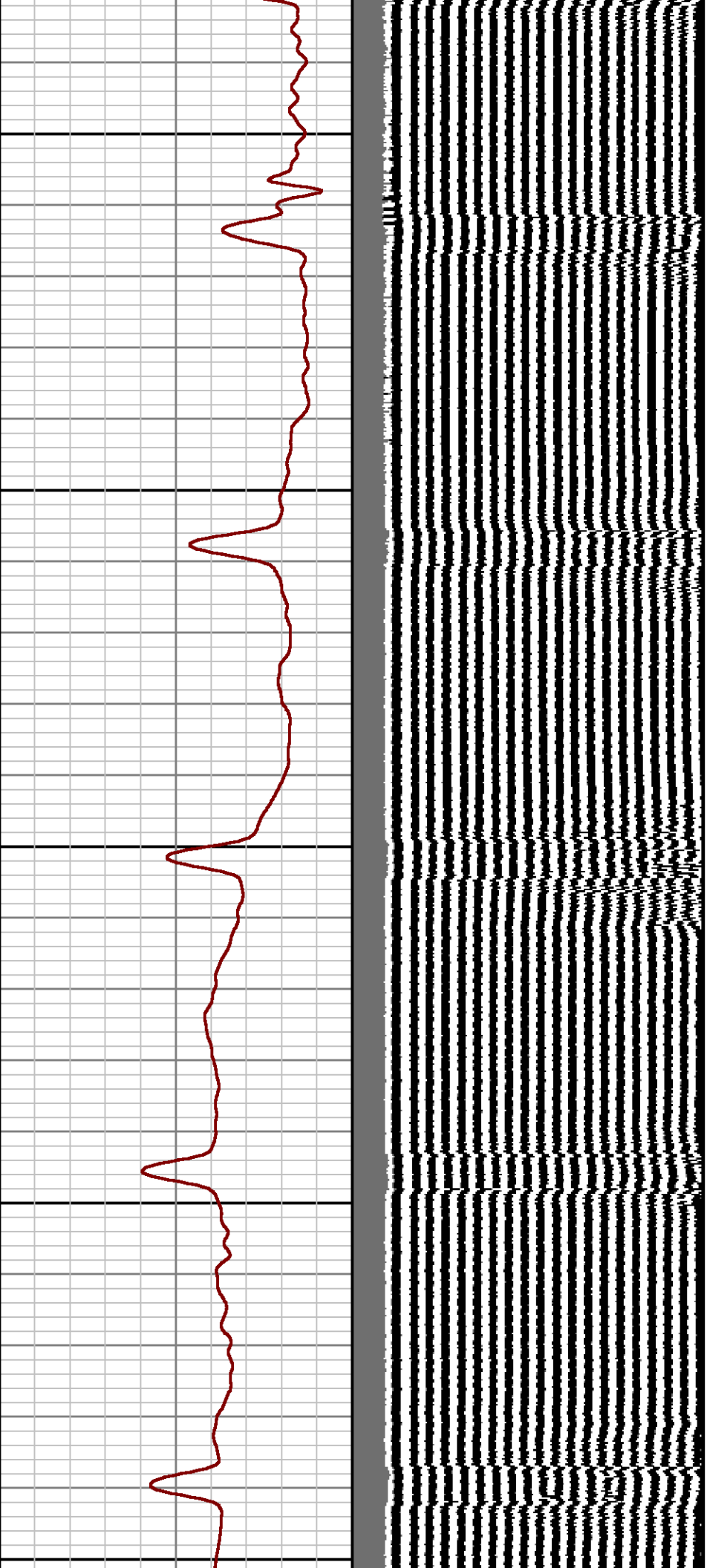
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GR

CCL

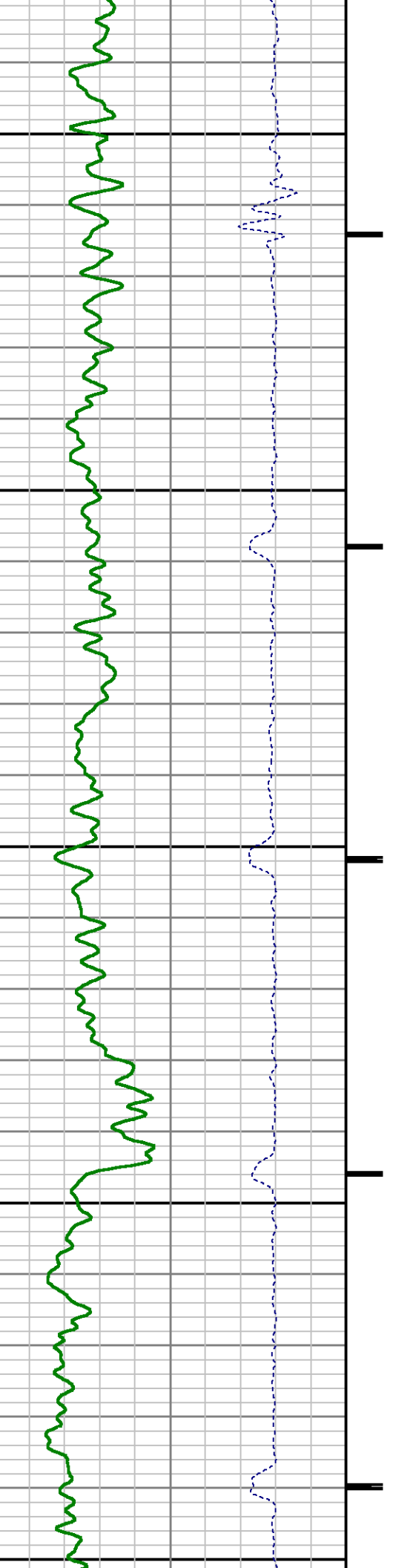
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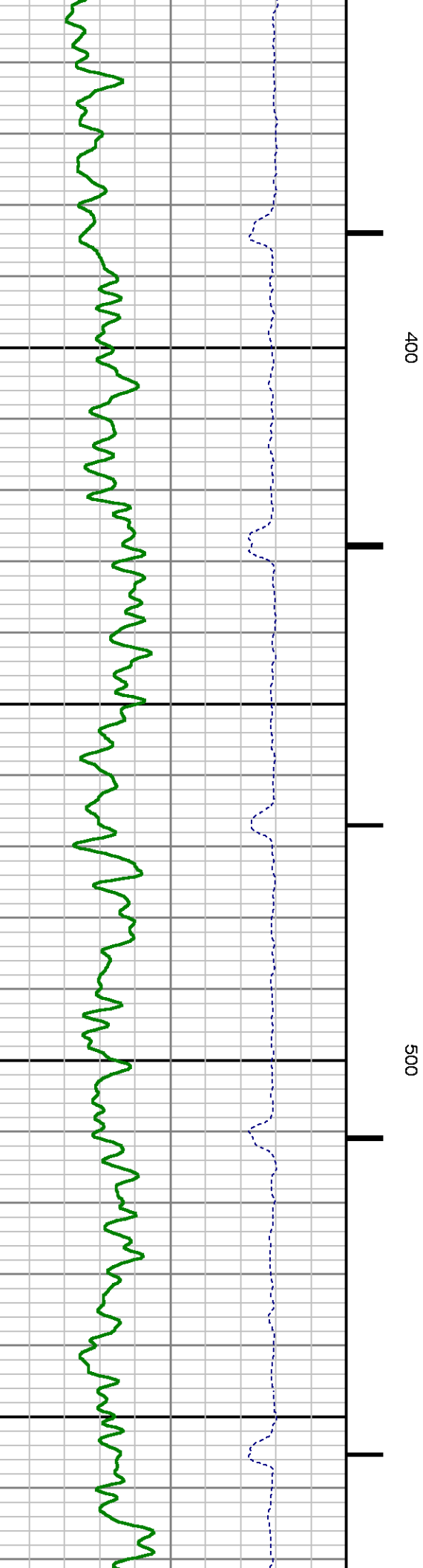
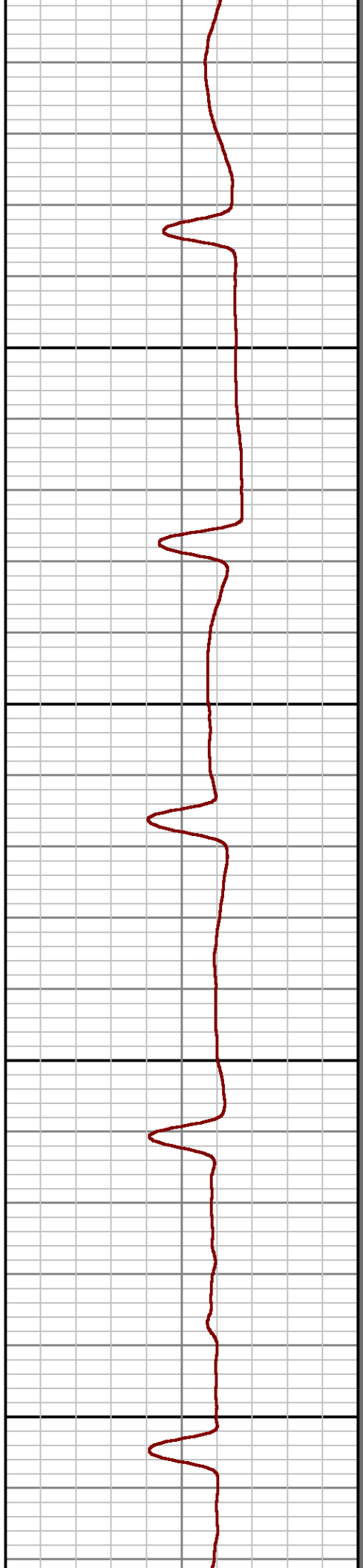
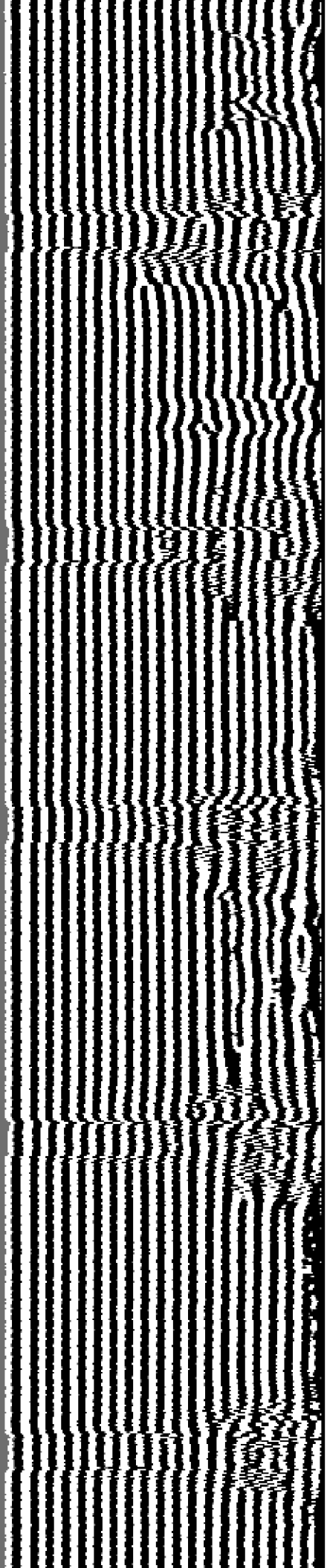
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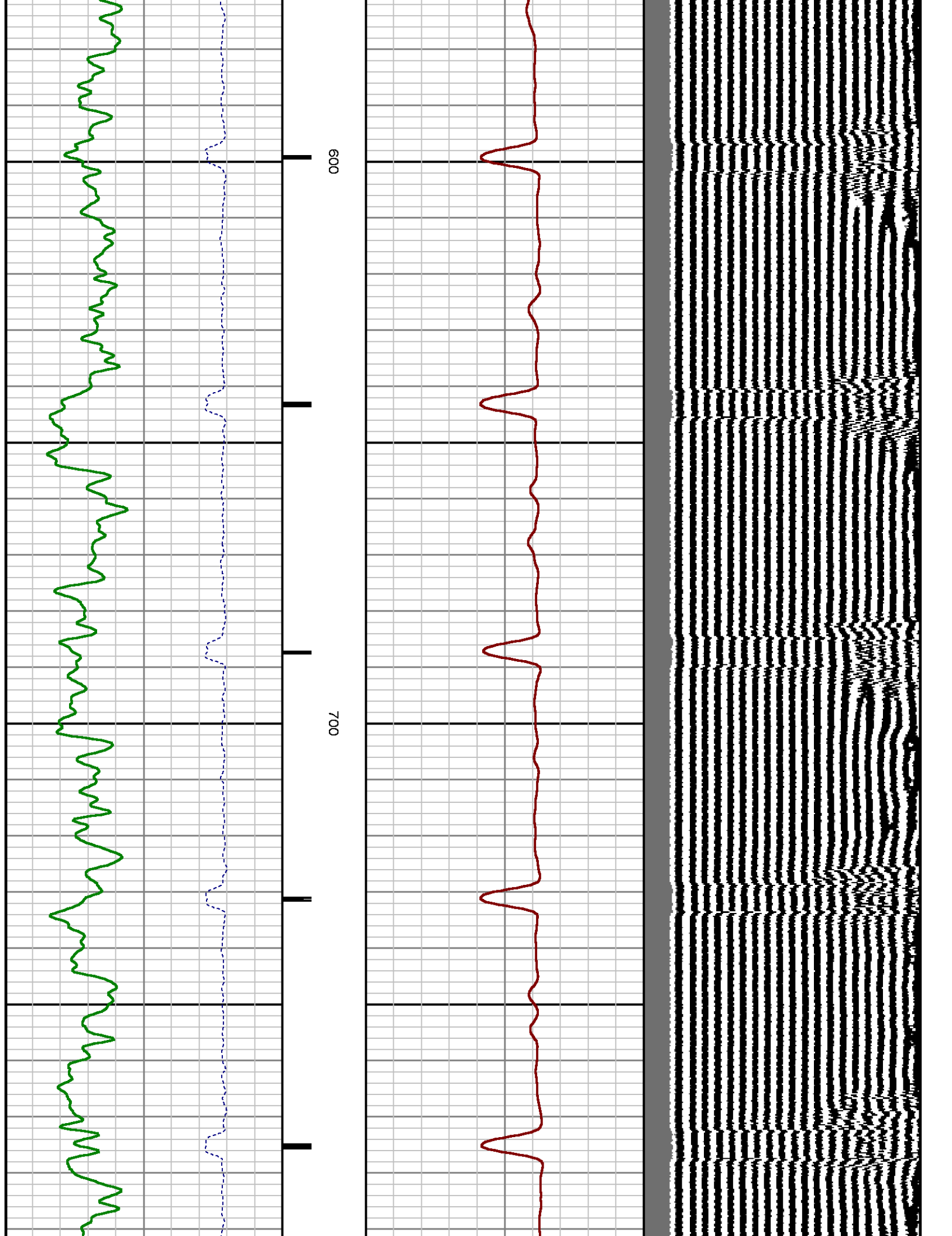


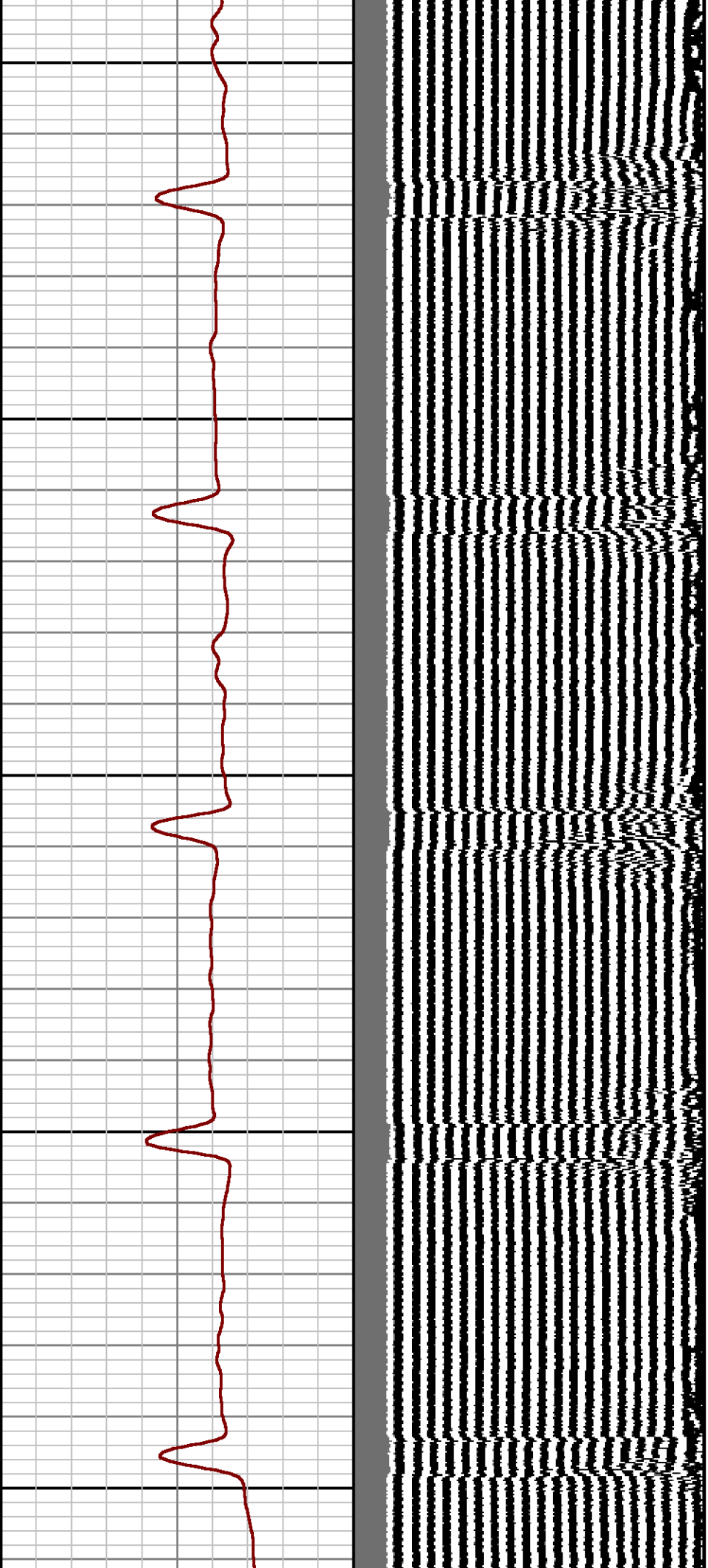
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300





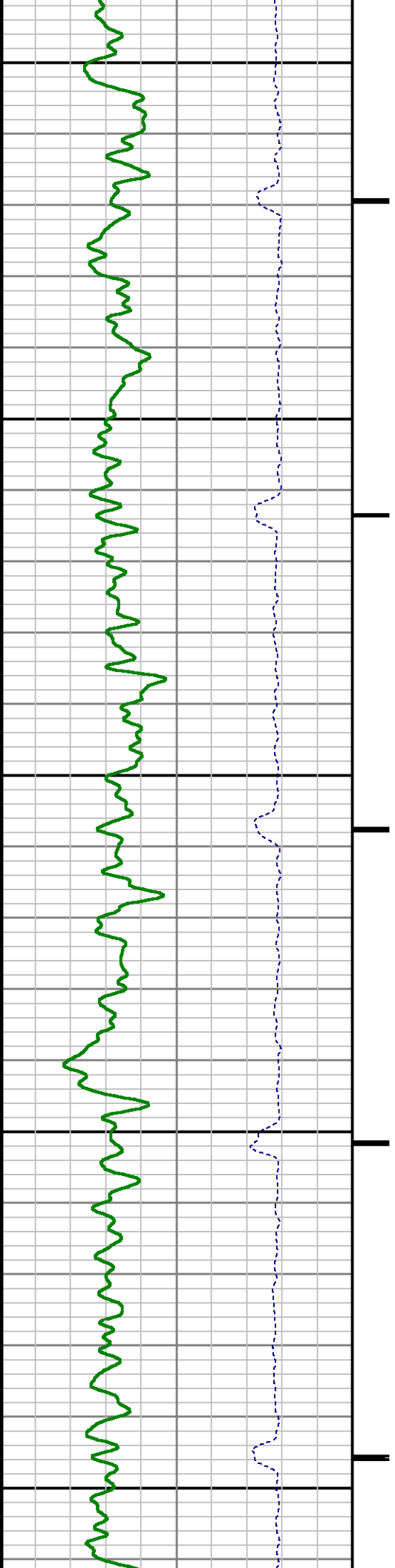


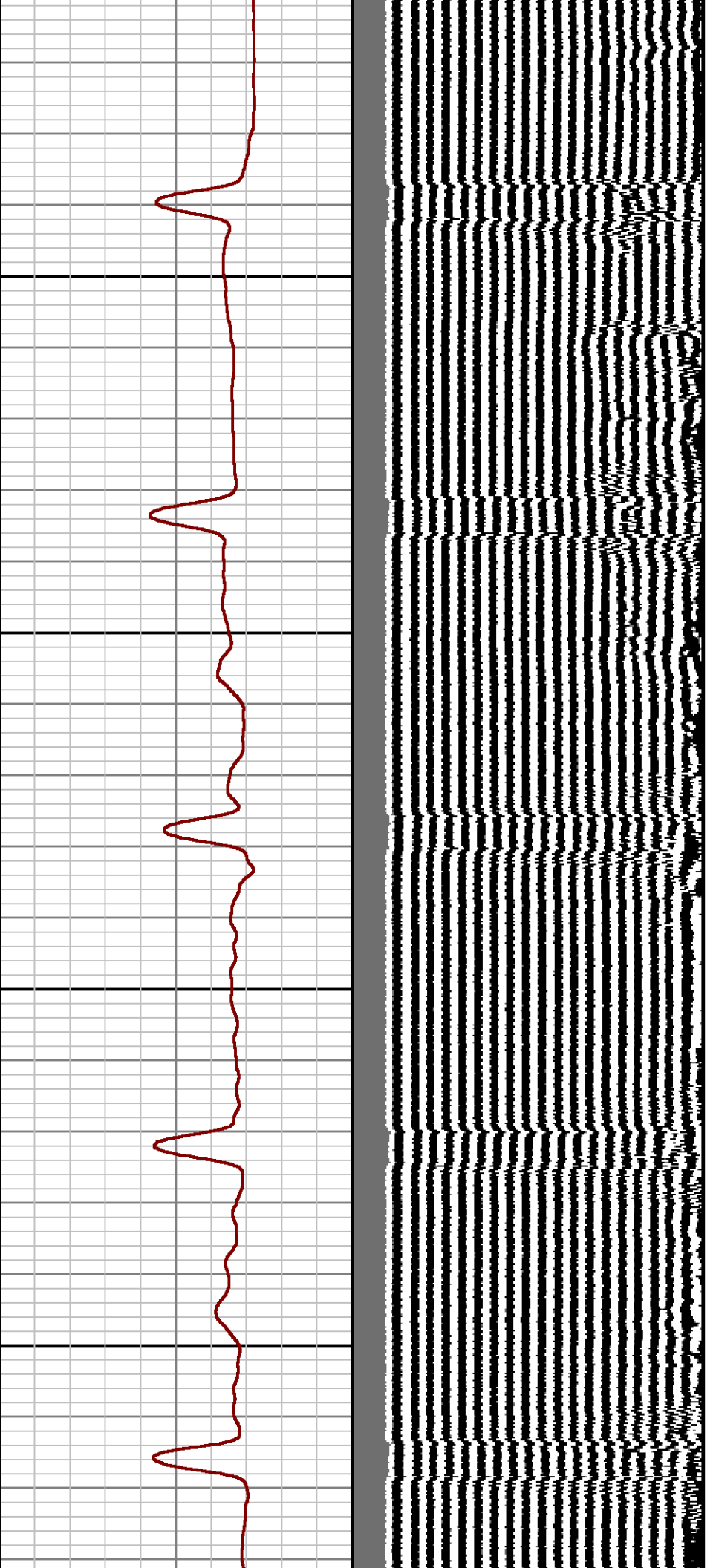


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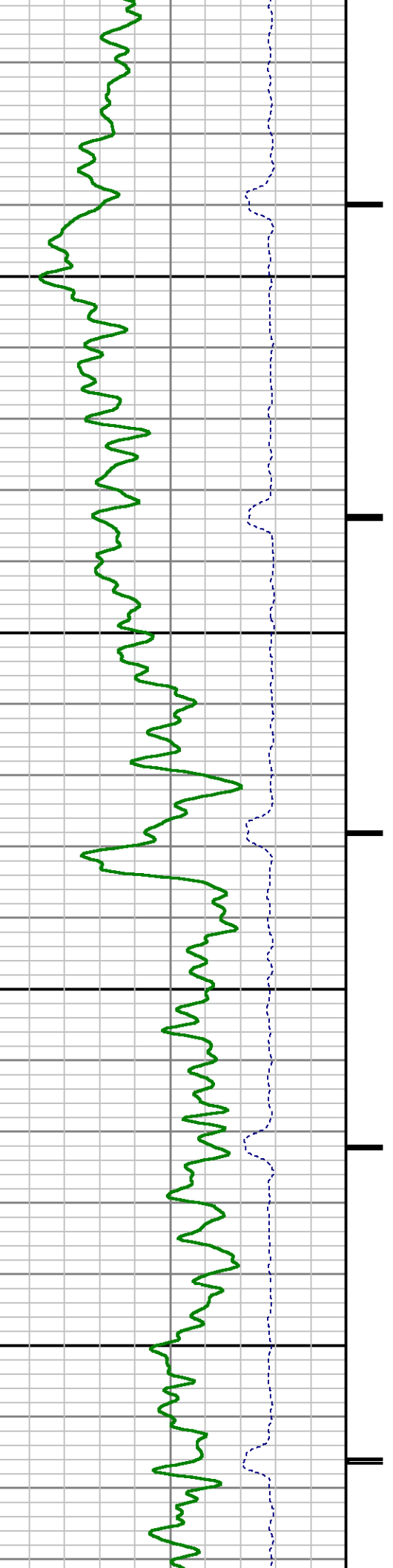
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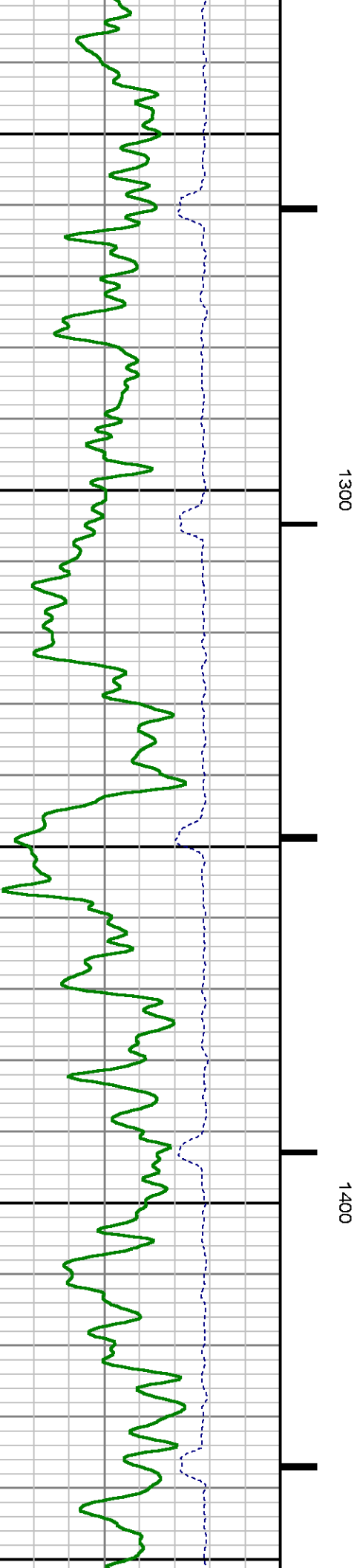
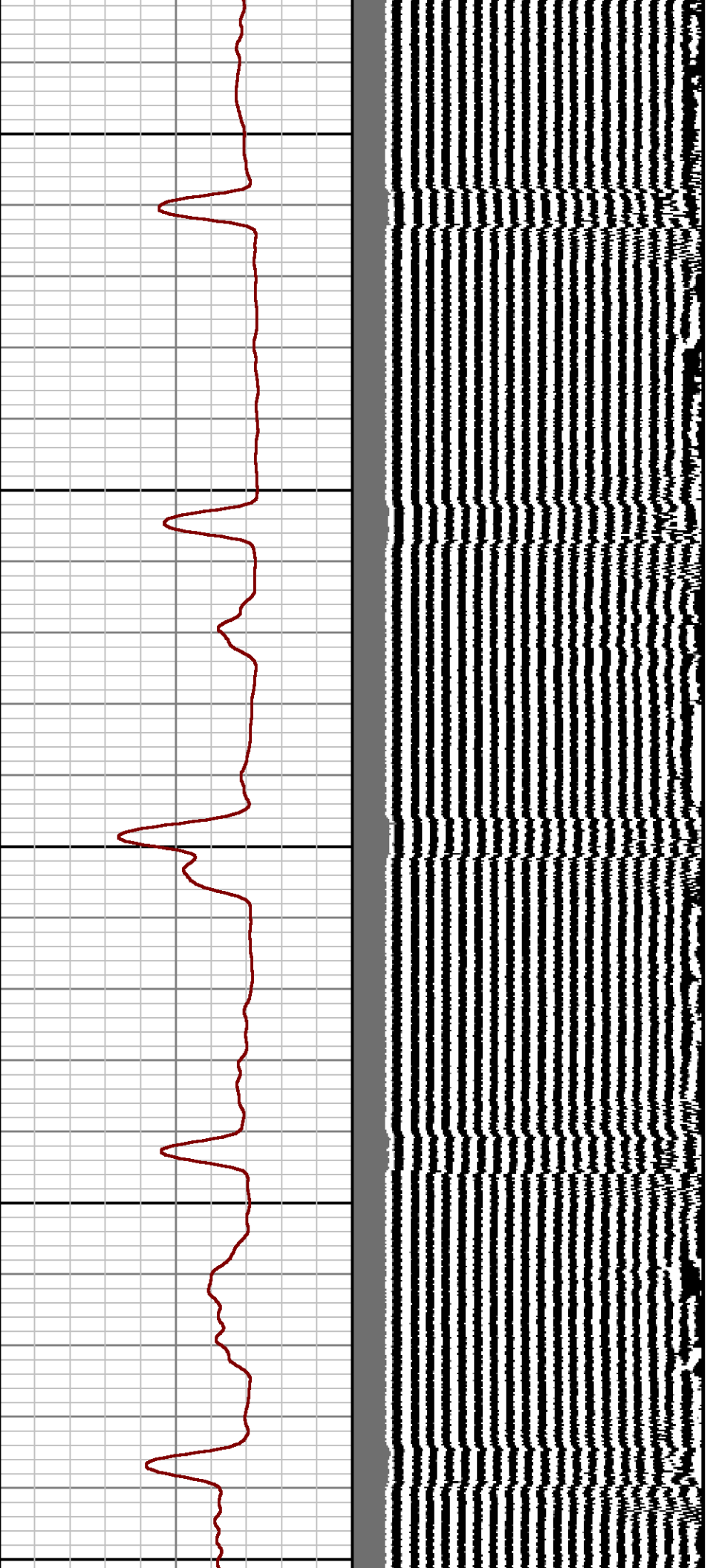


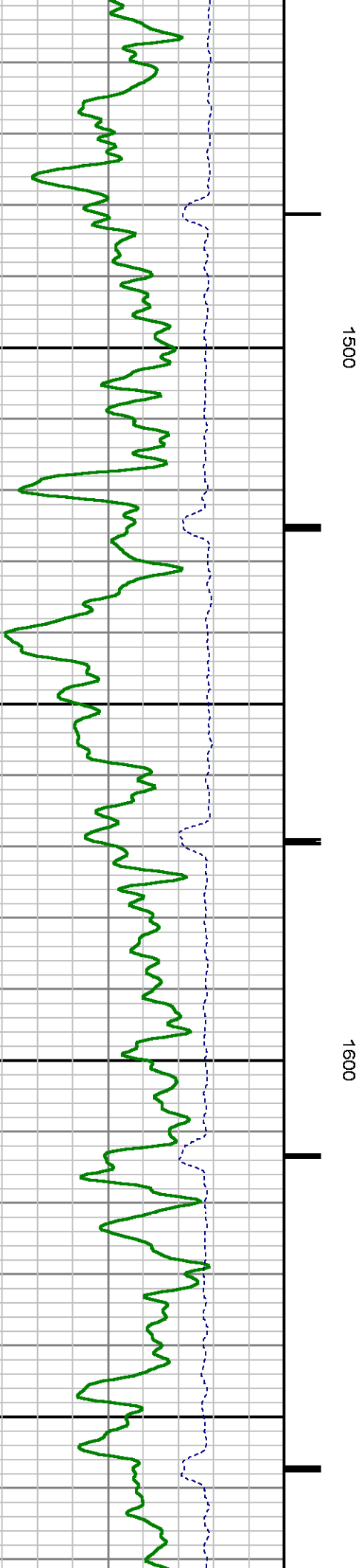
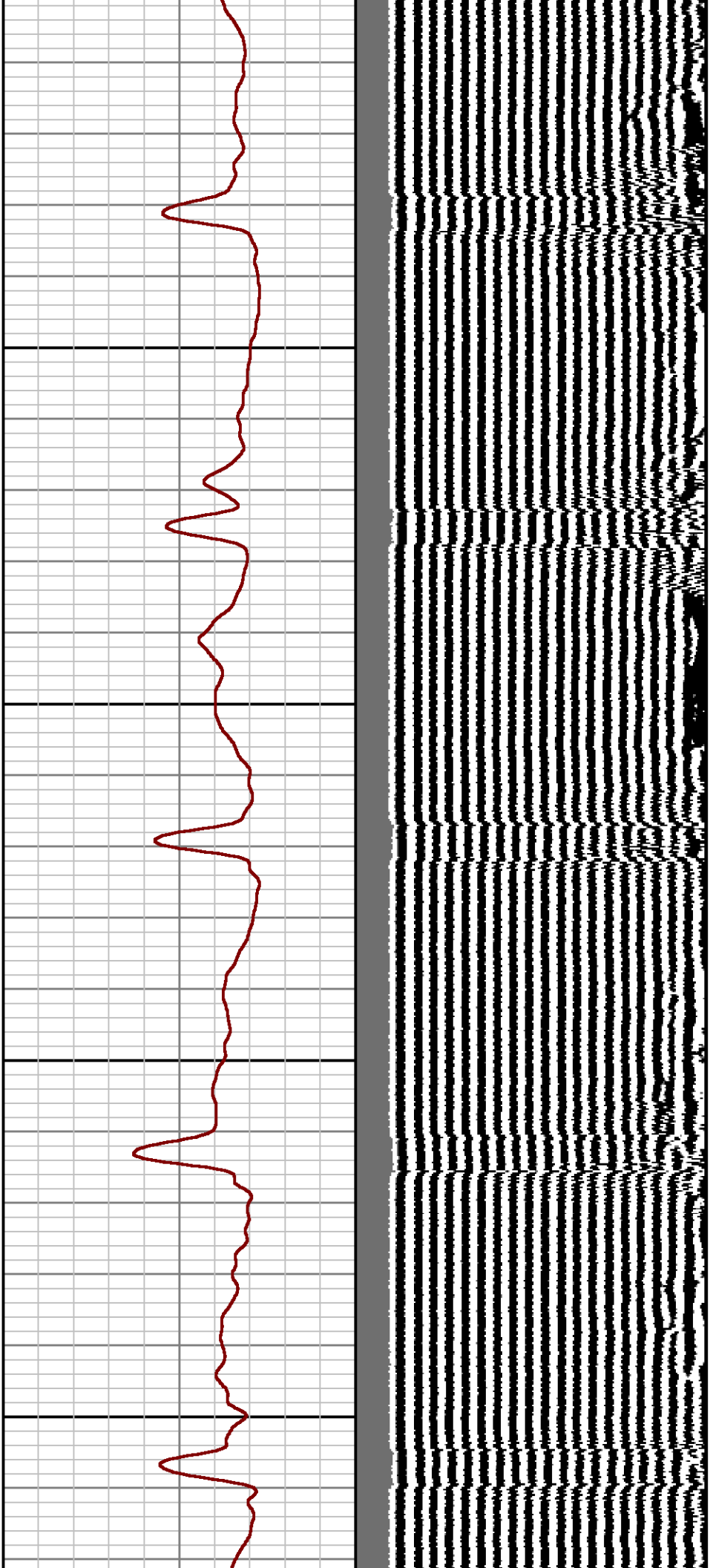


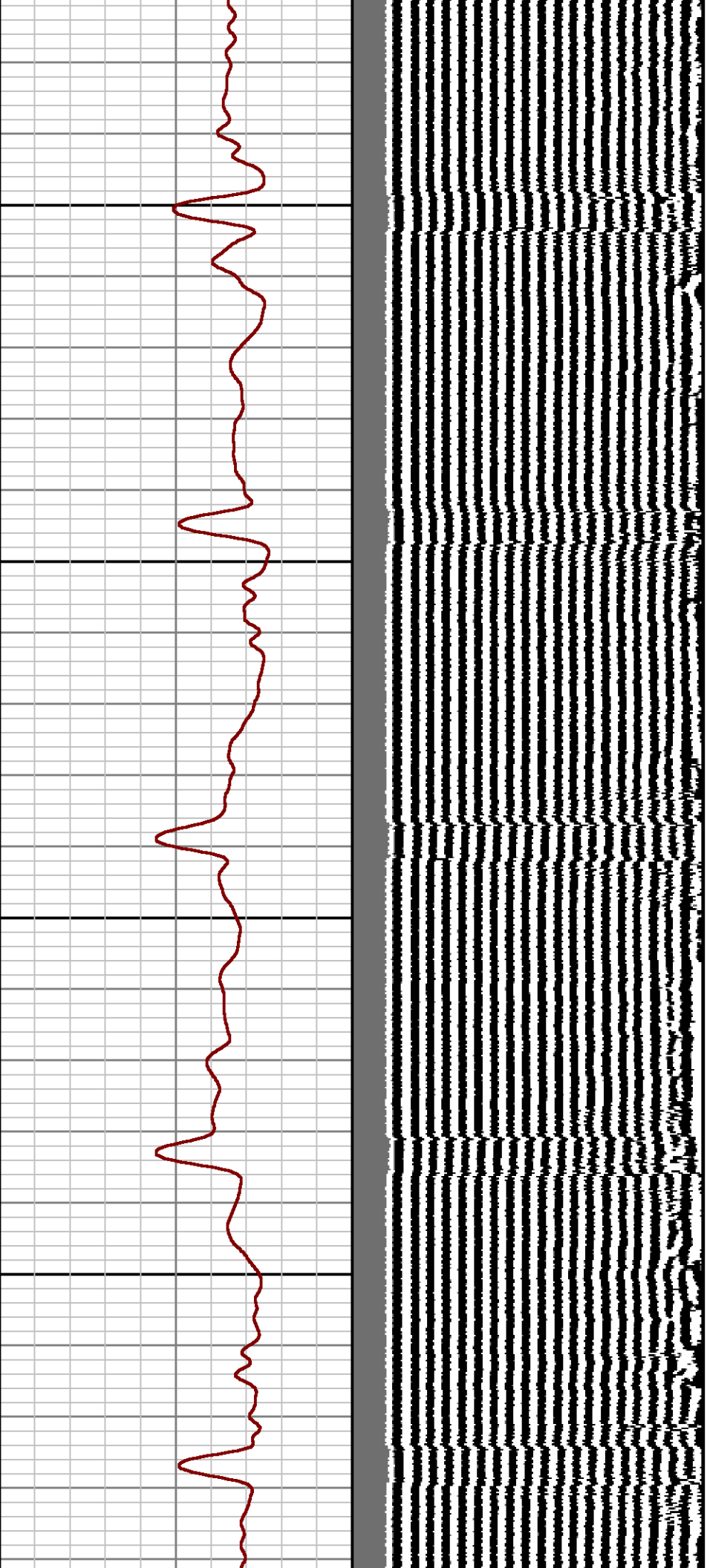
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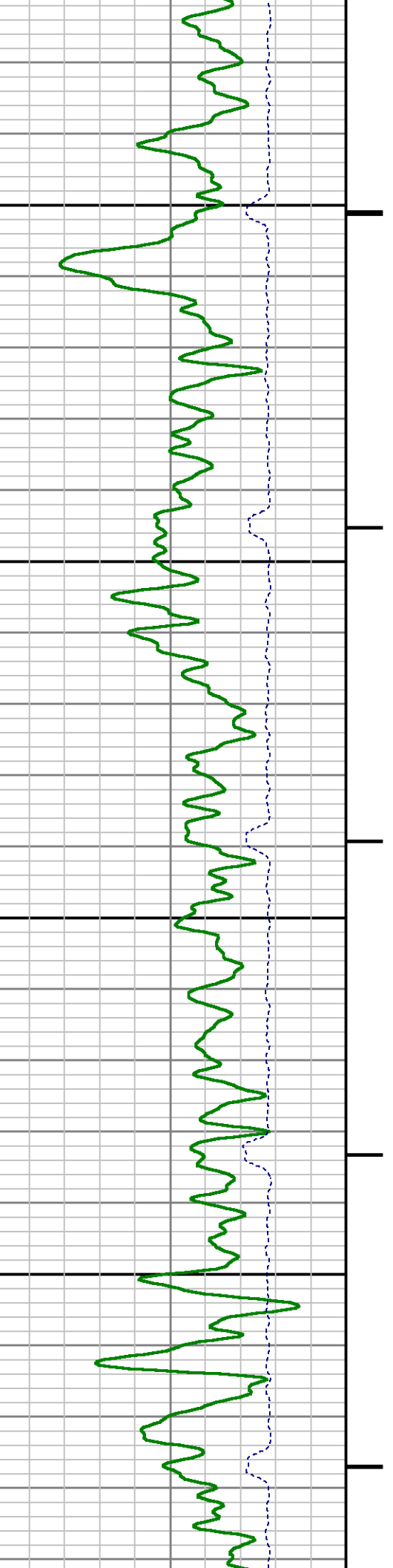


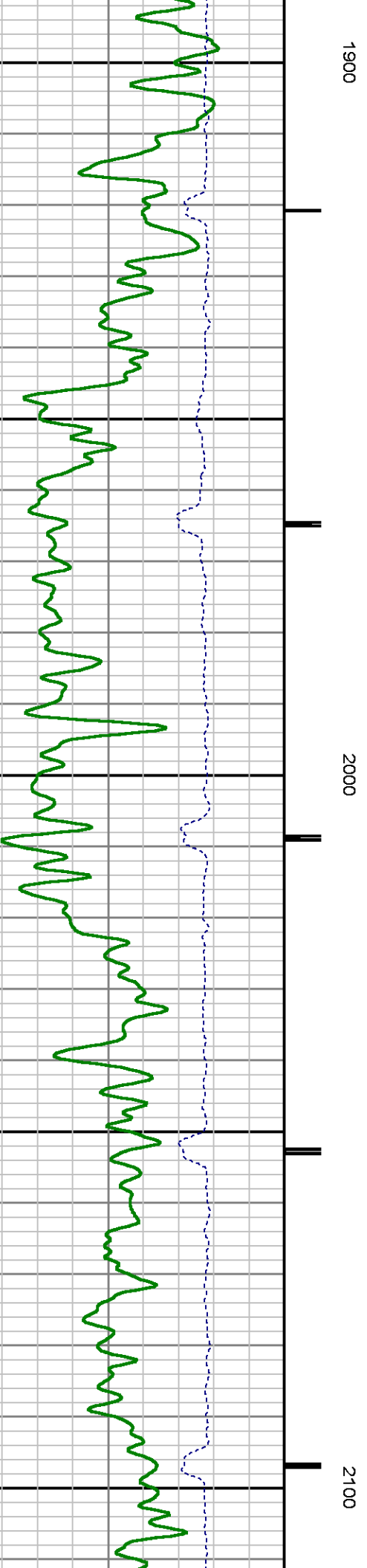
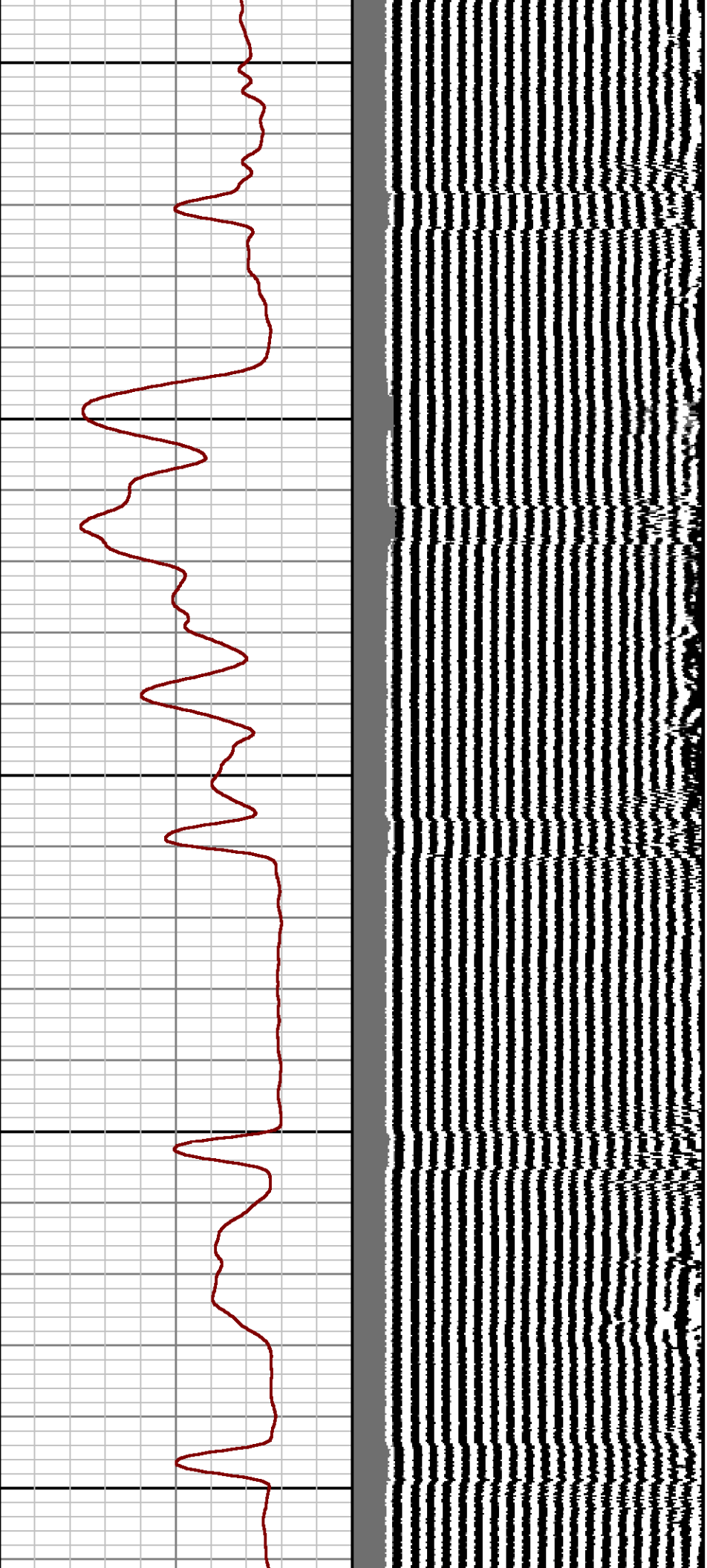


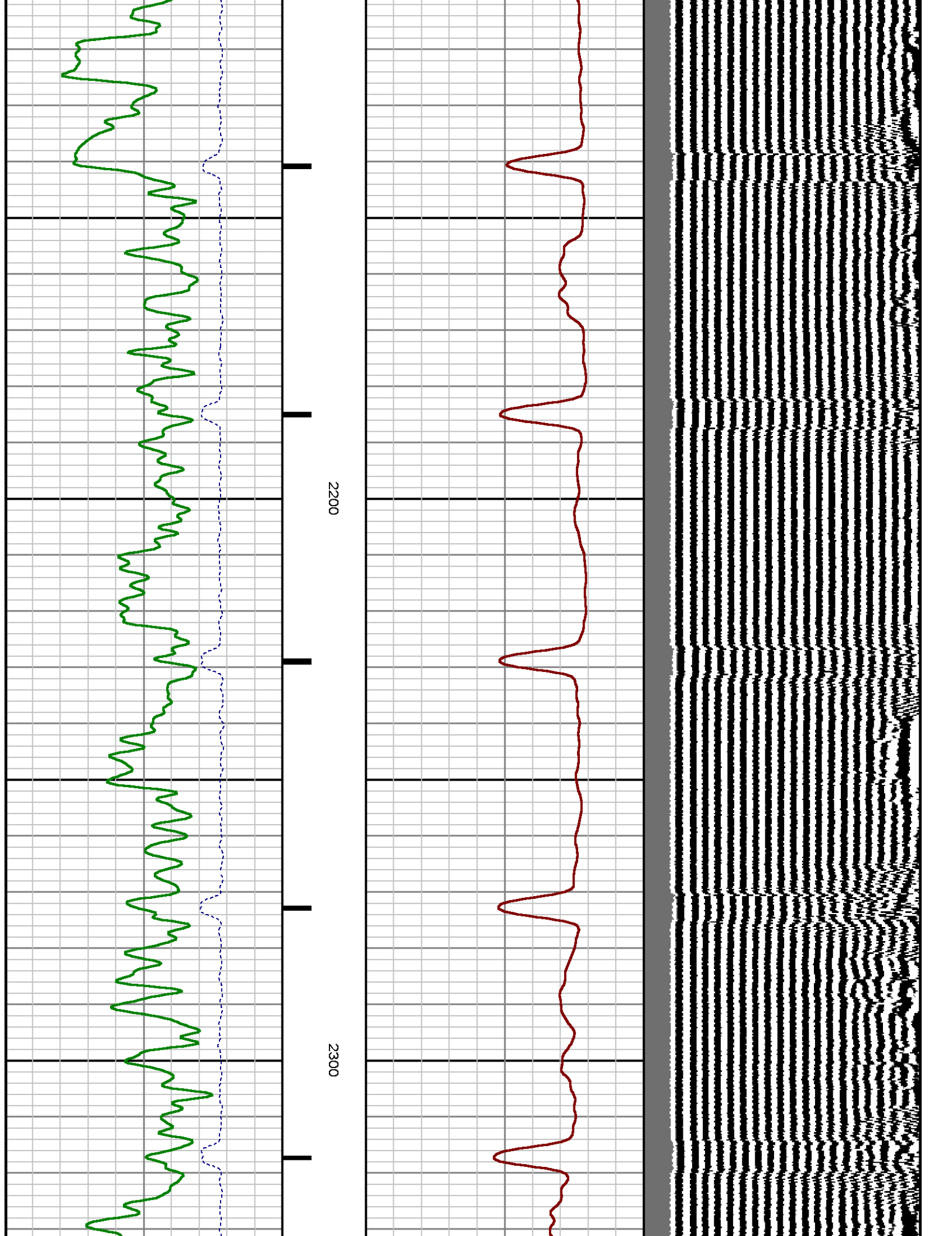


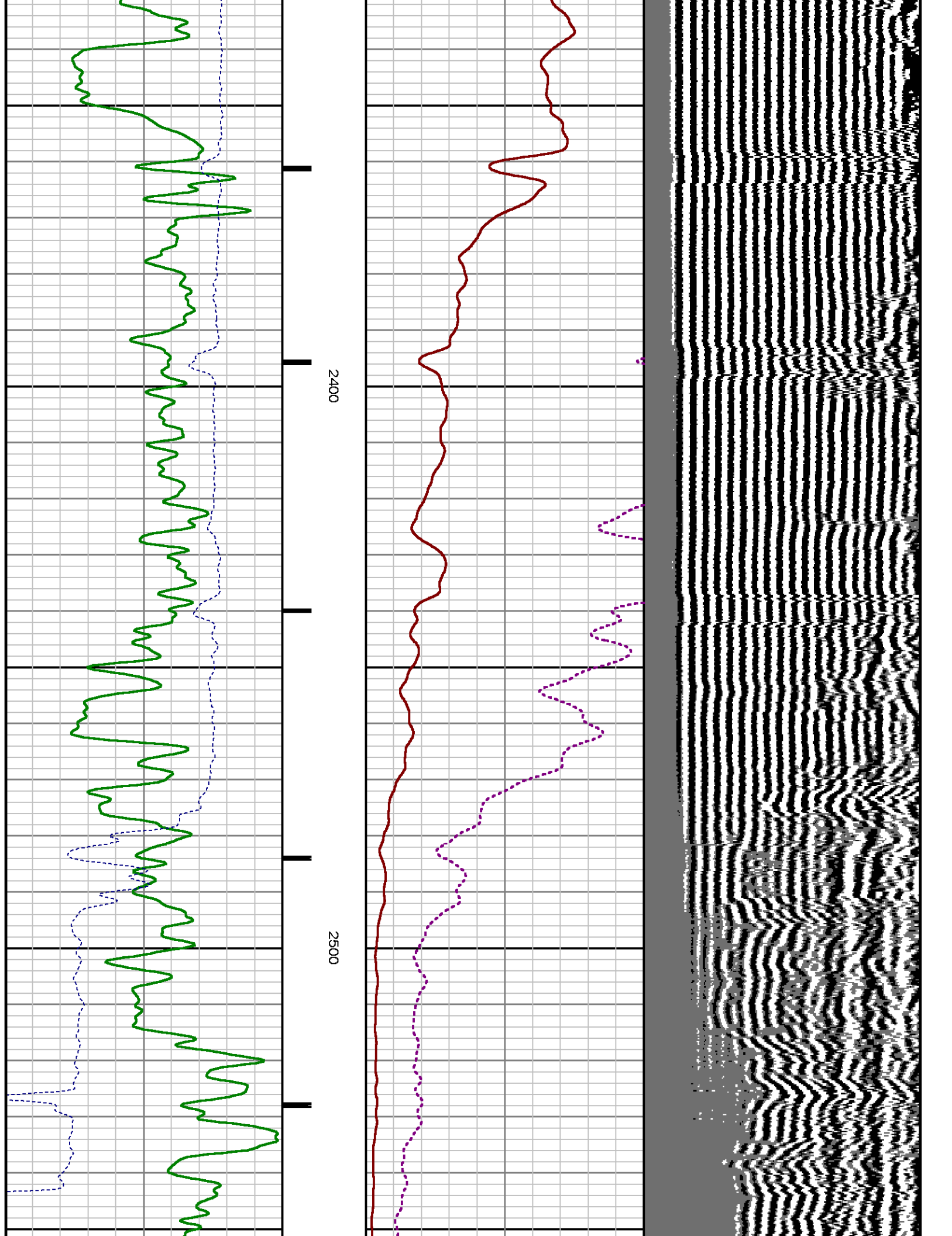
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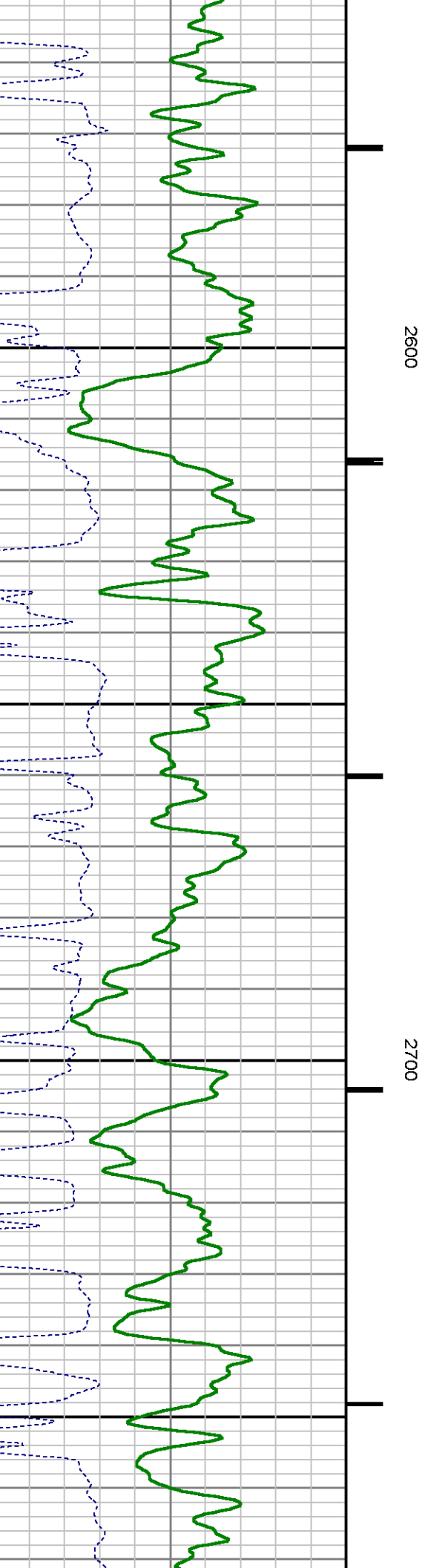
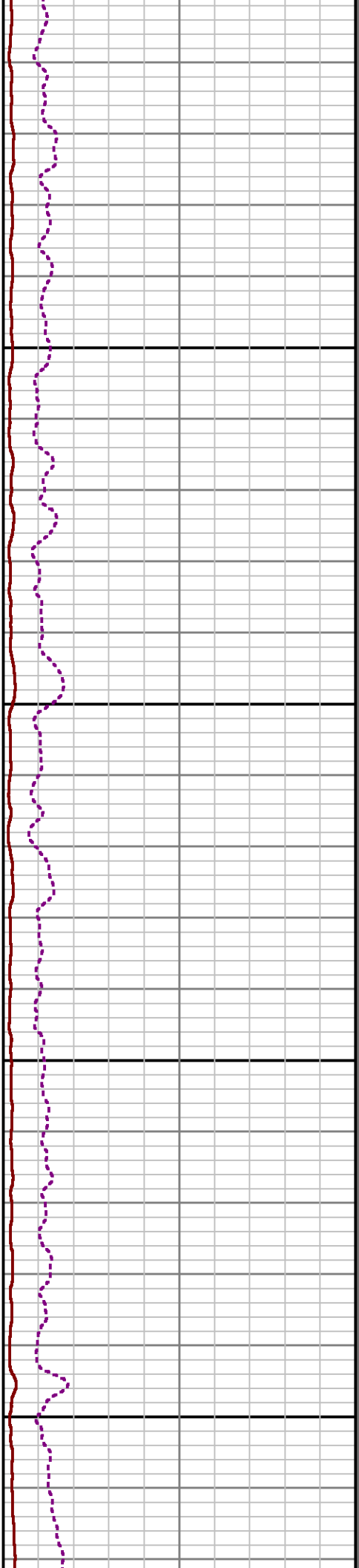
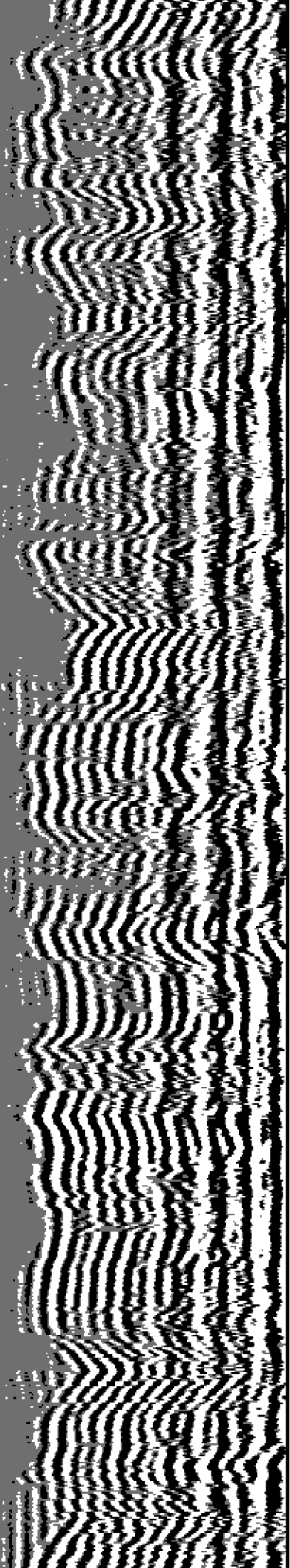
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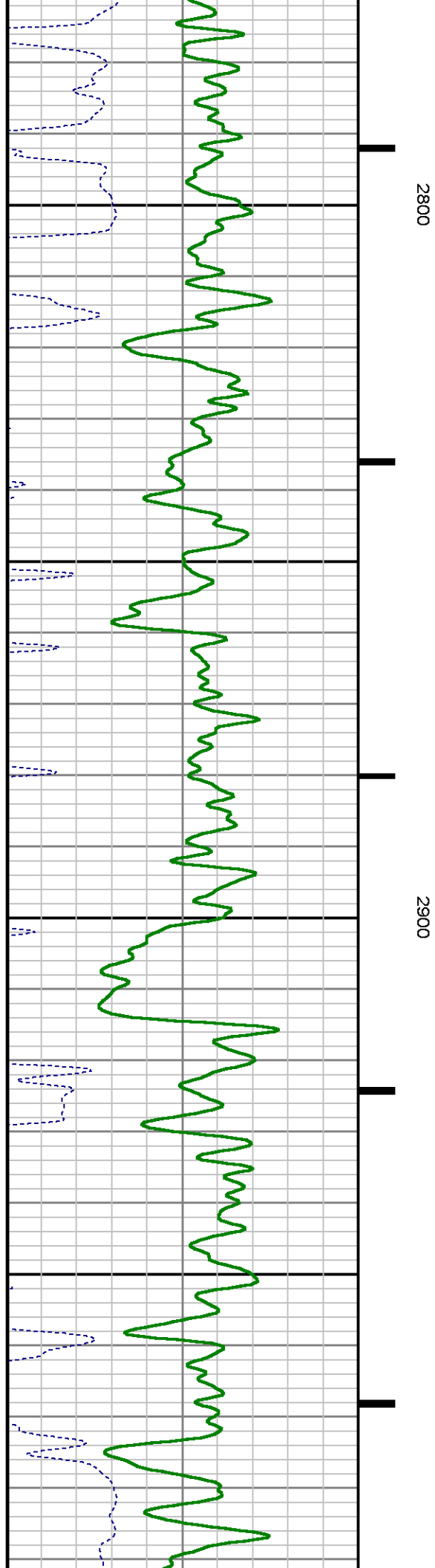
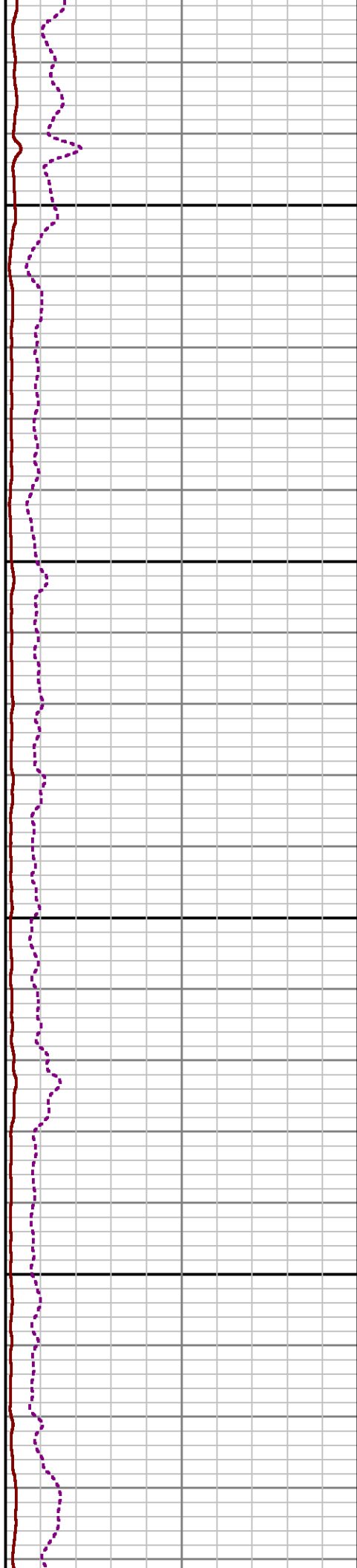
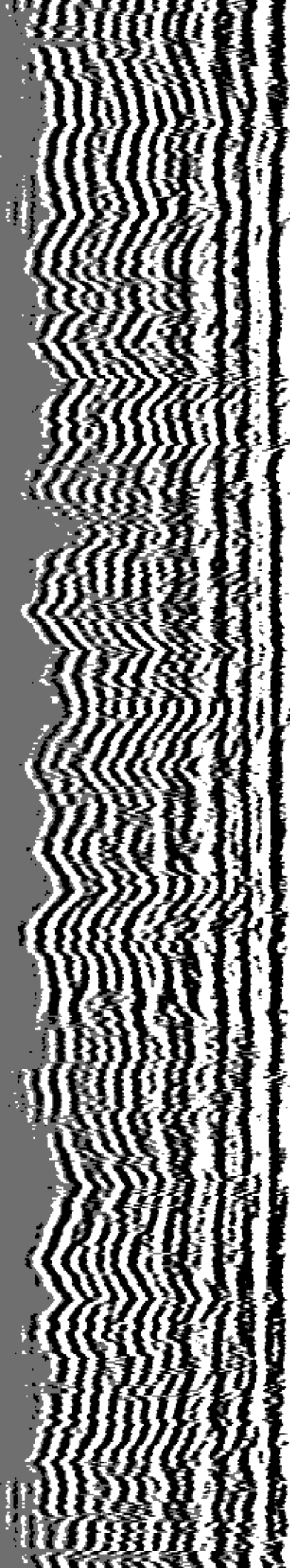


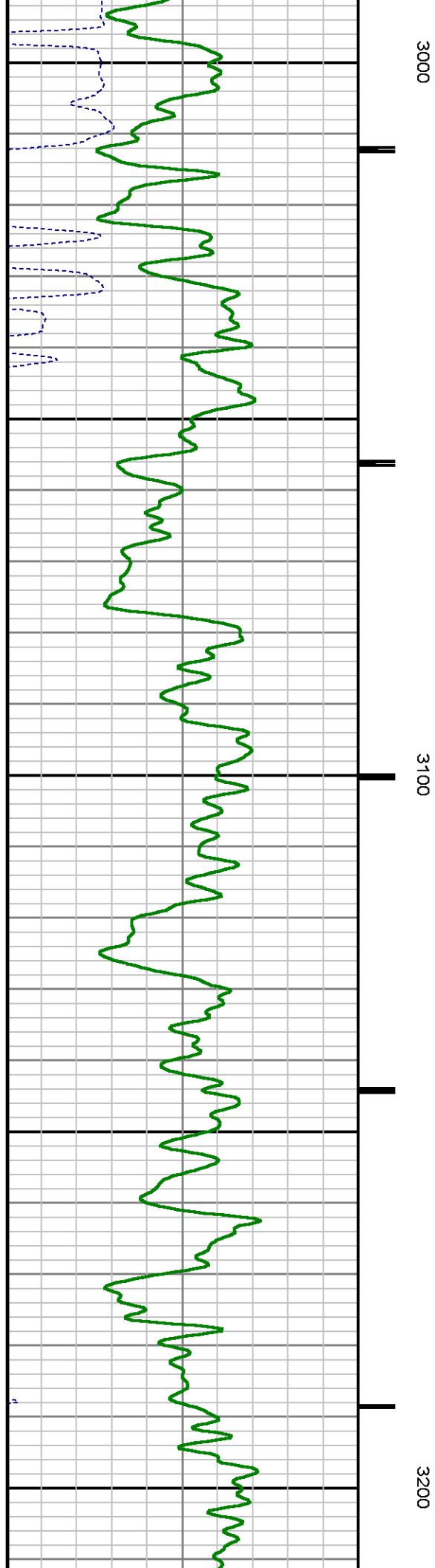
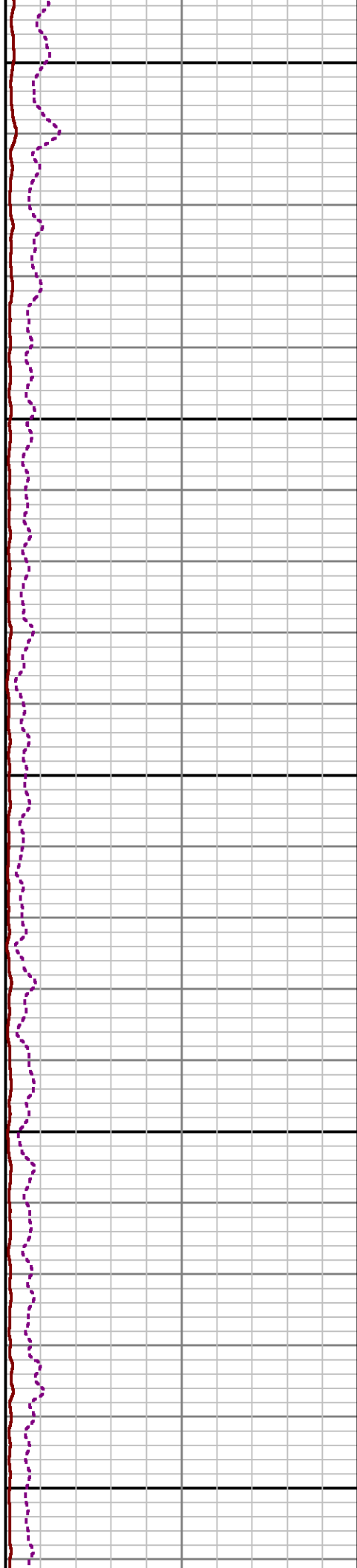
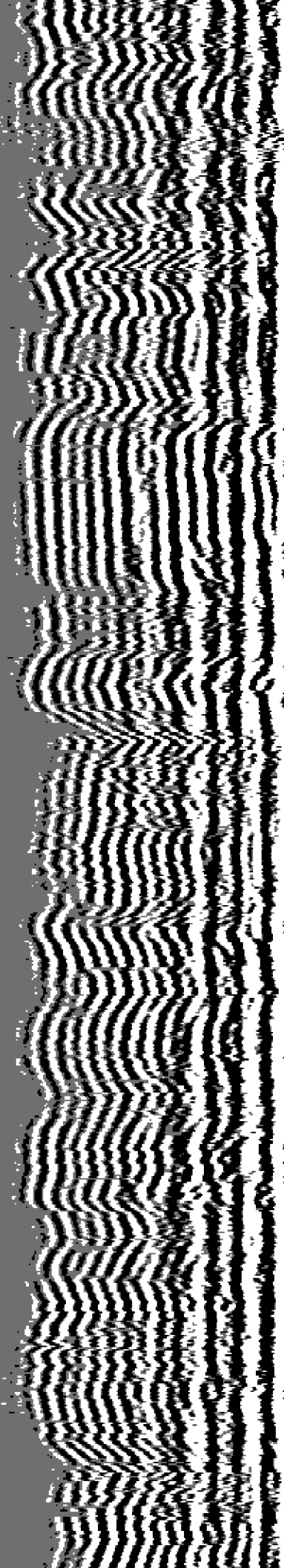


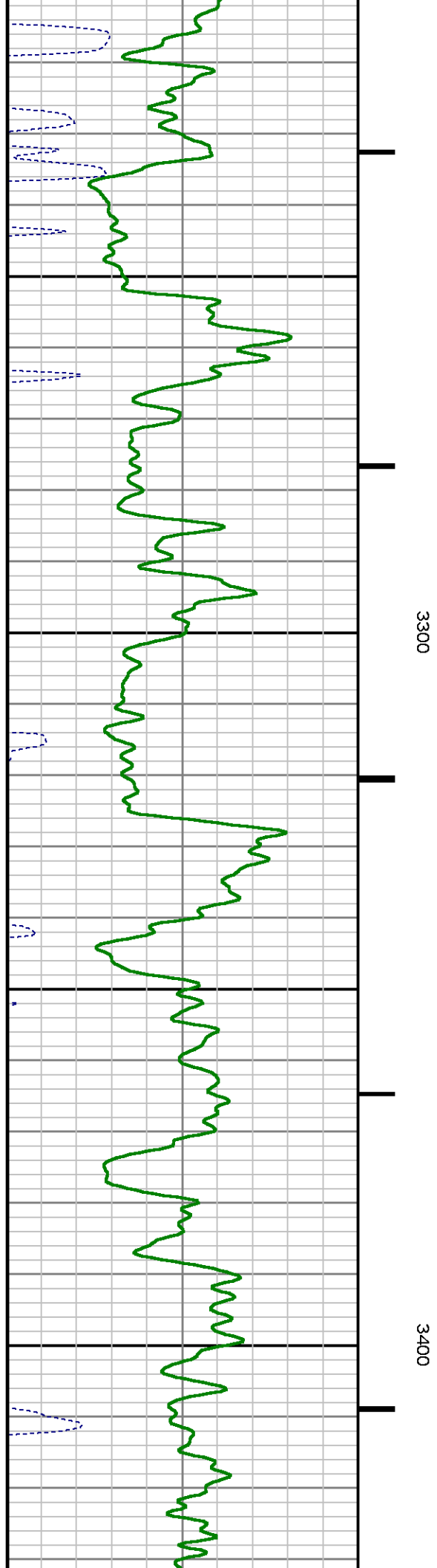
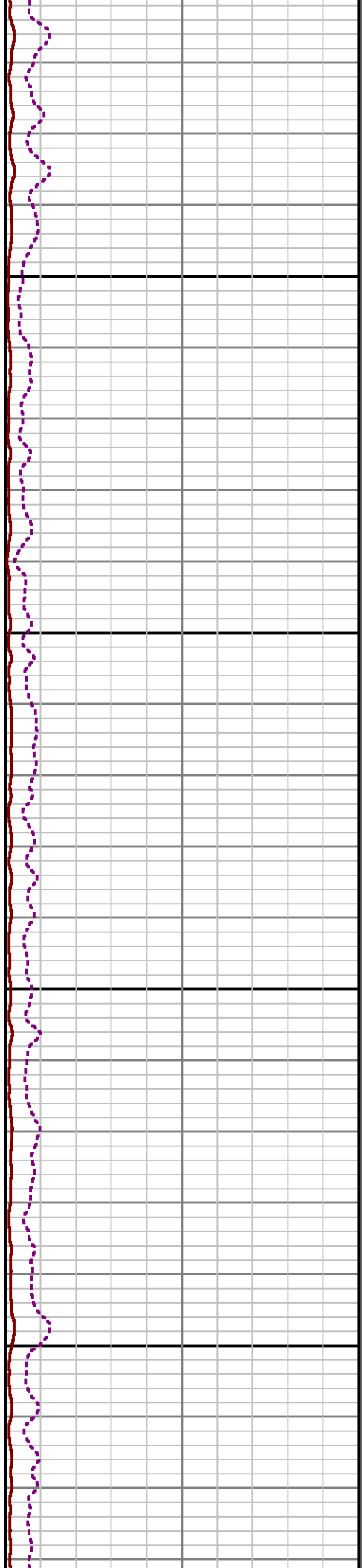
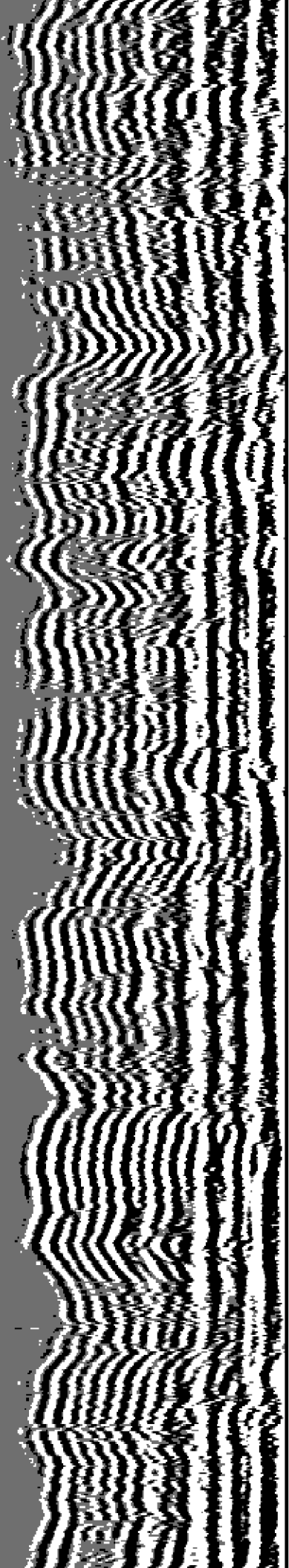


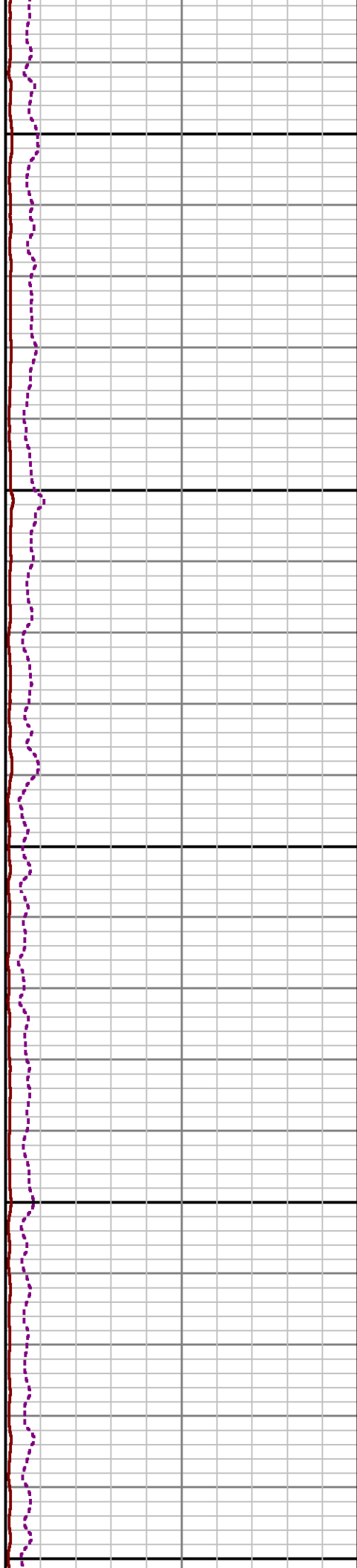
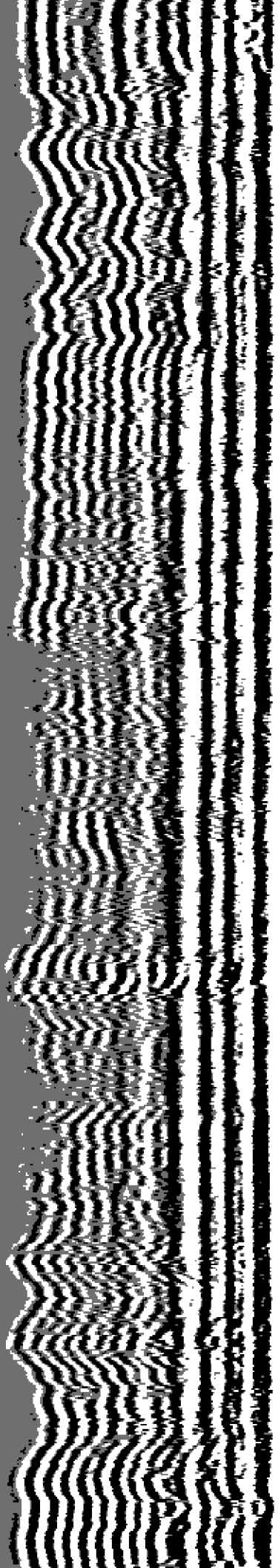






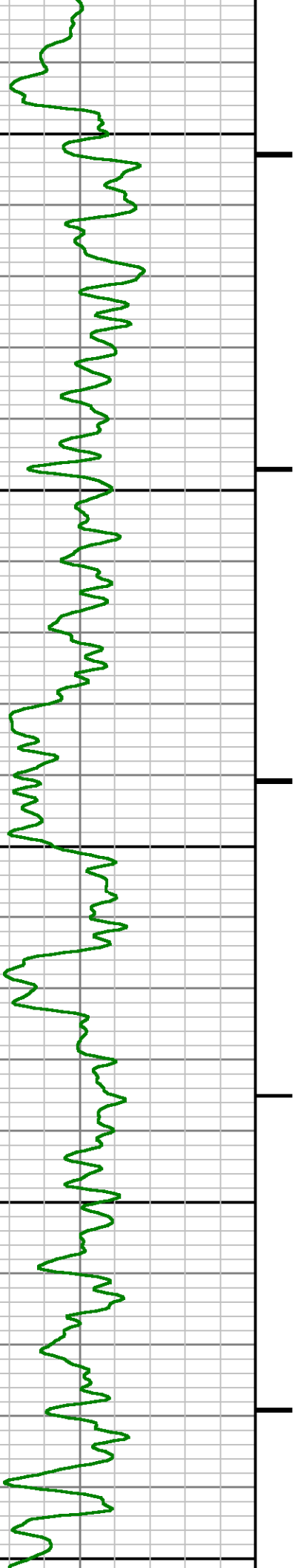




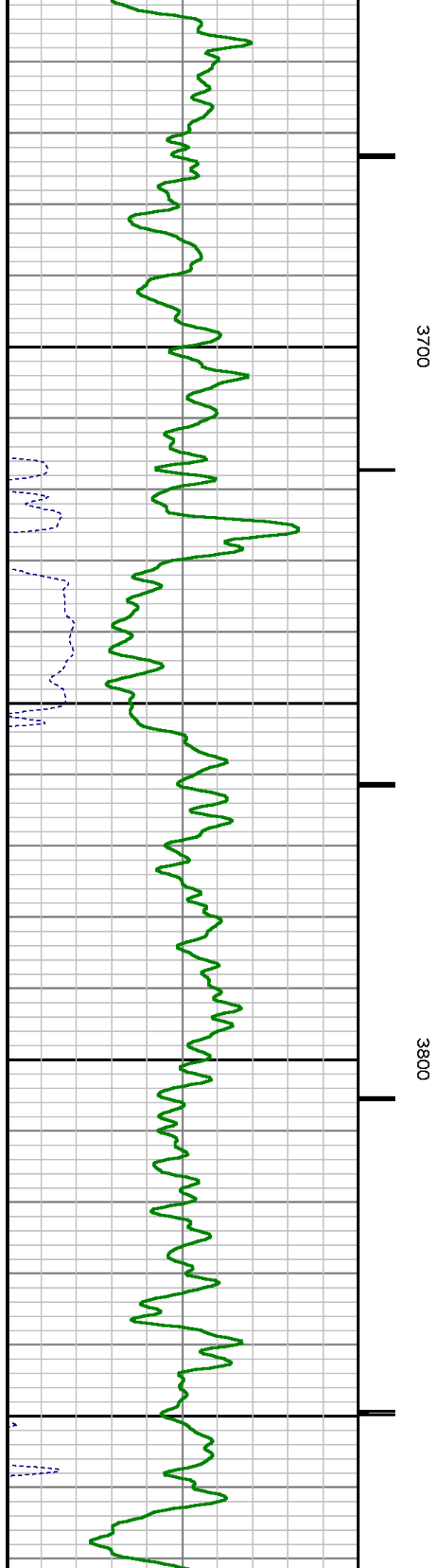
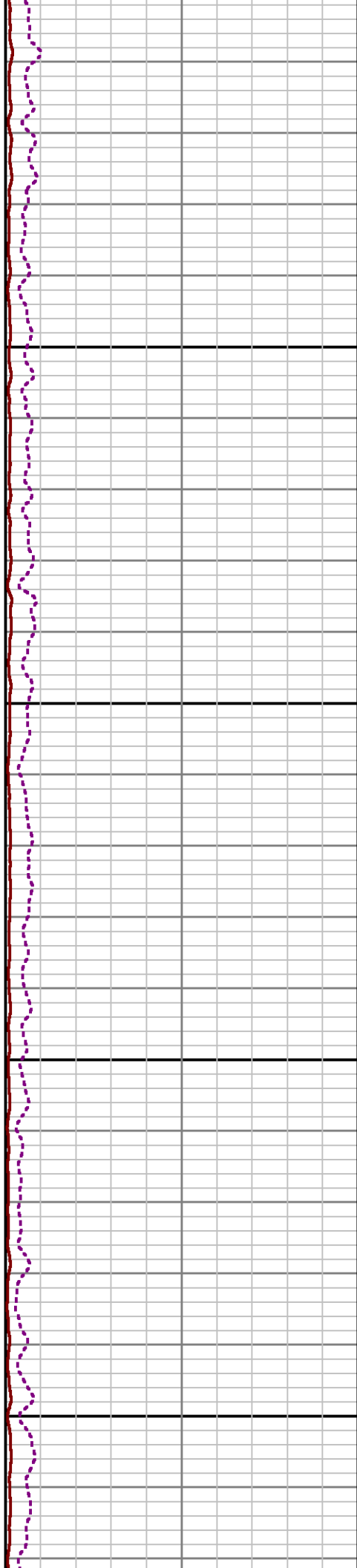
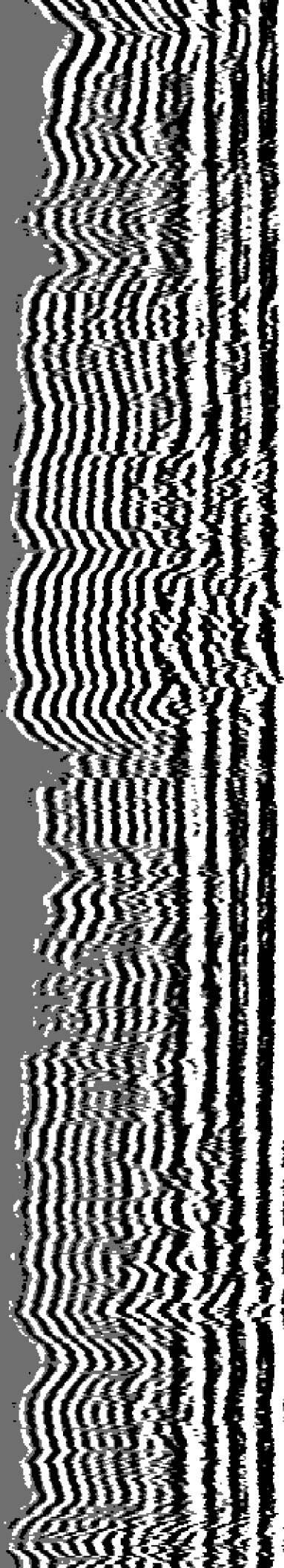


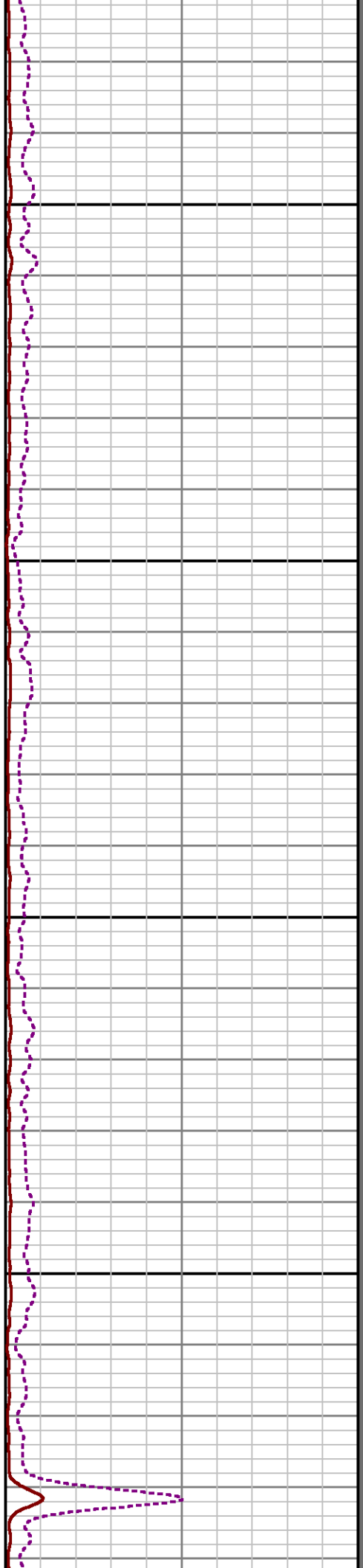
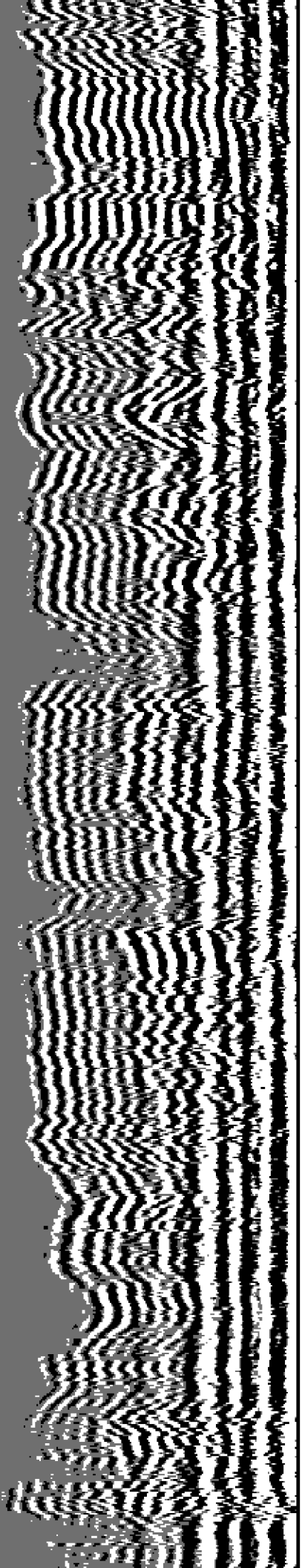
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3600



M
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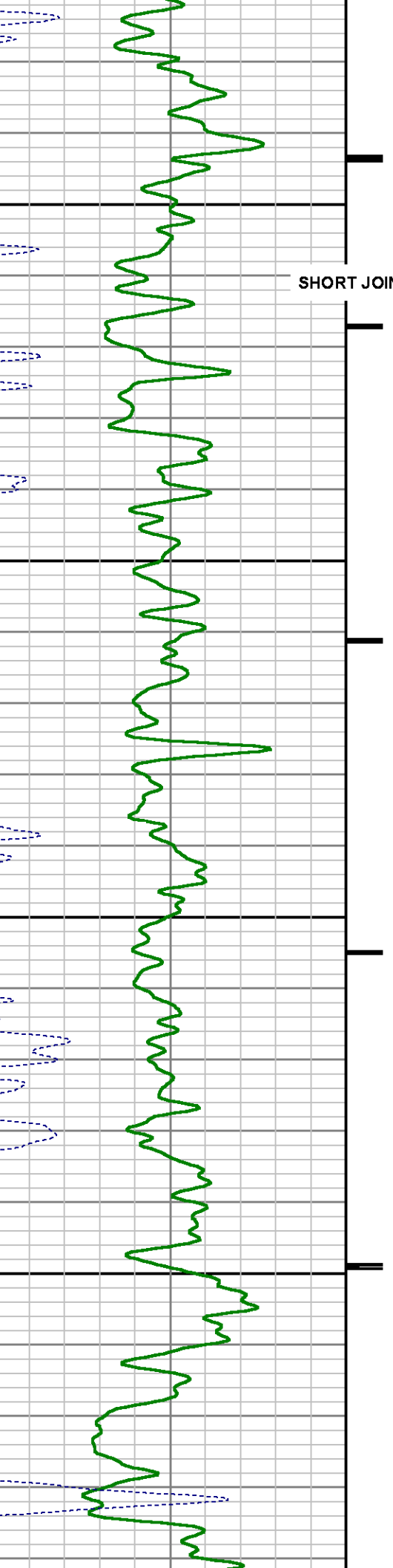


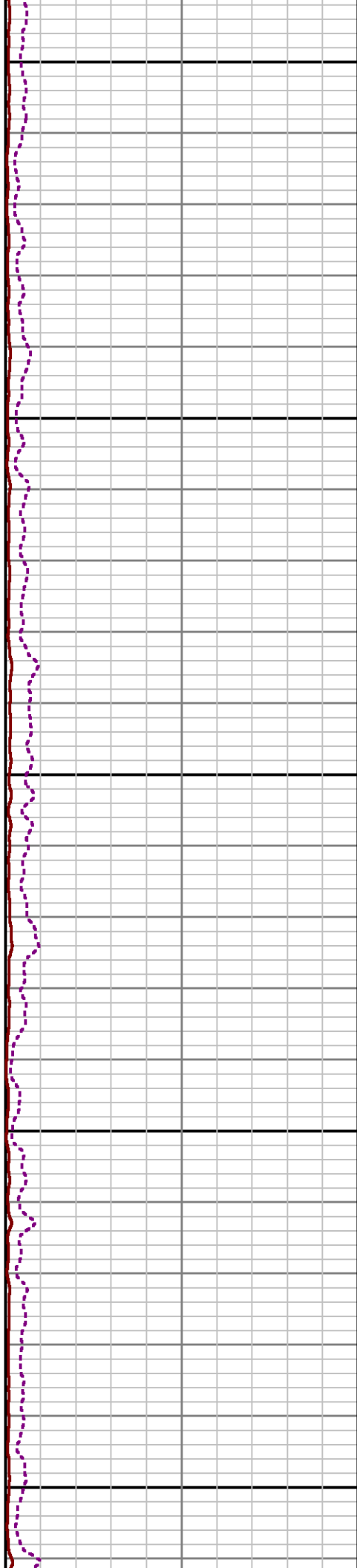
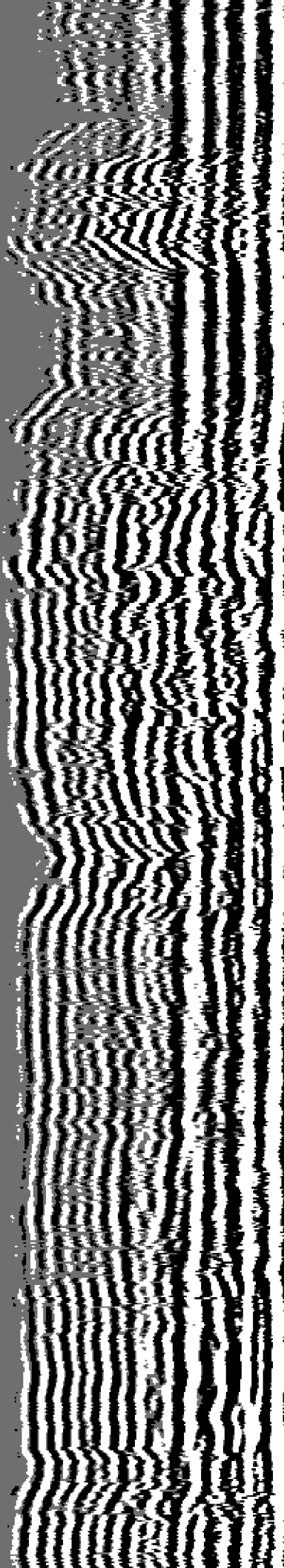


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SHORT JOINT

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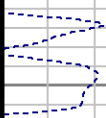
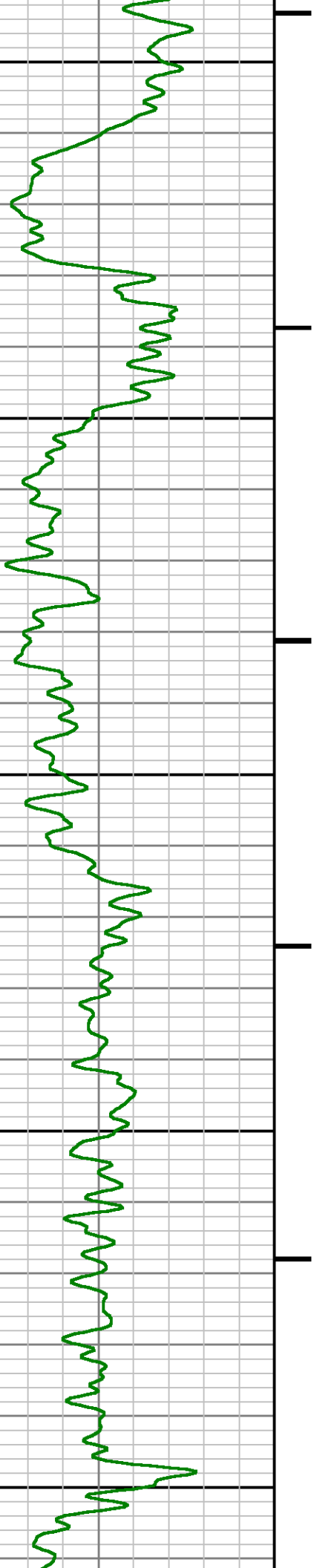




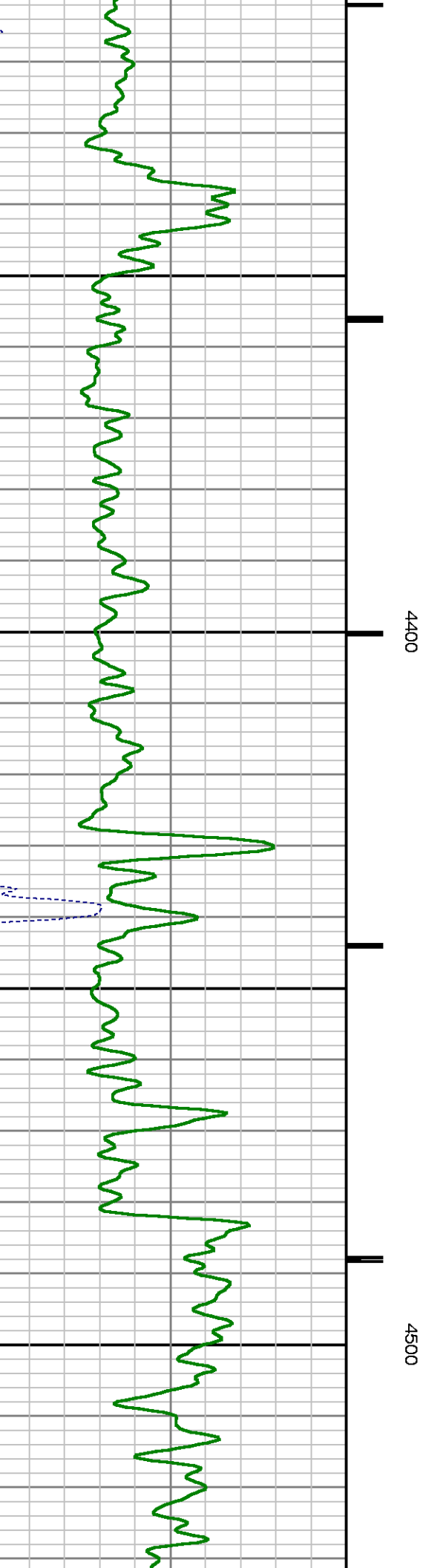
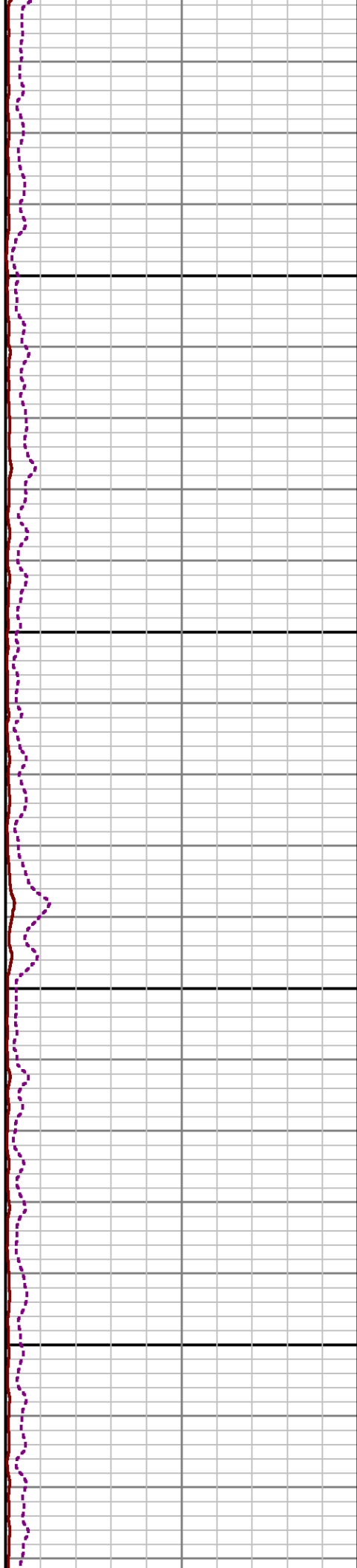
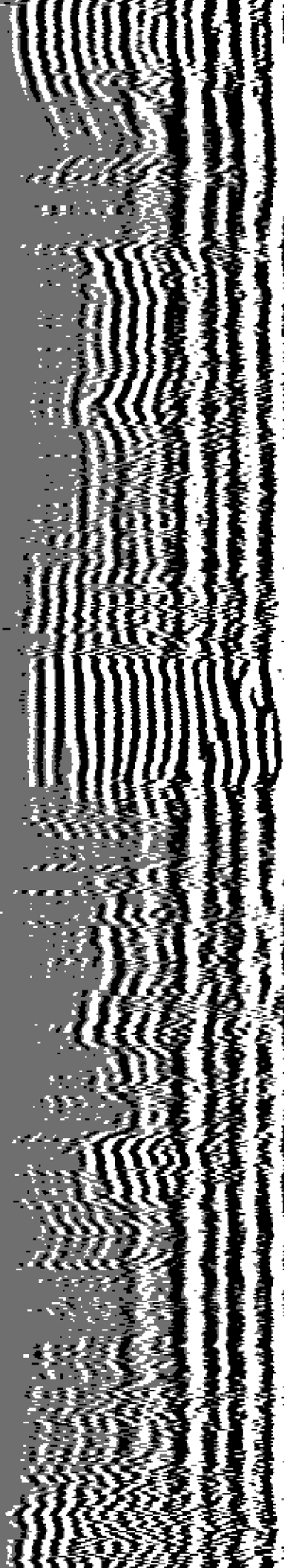
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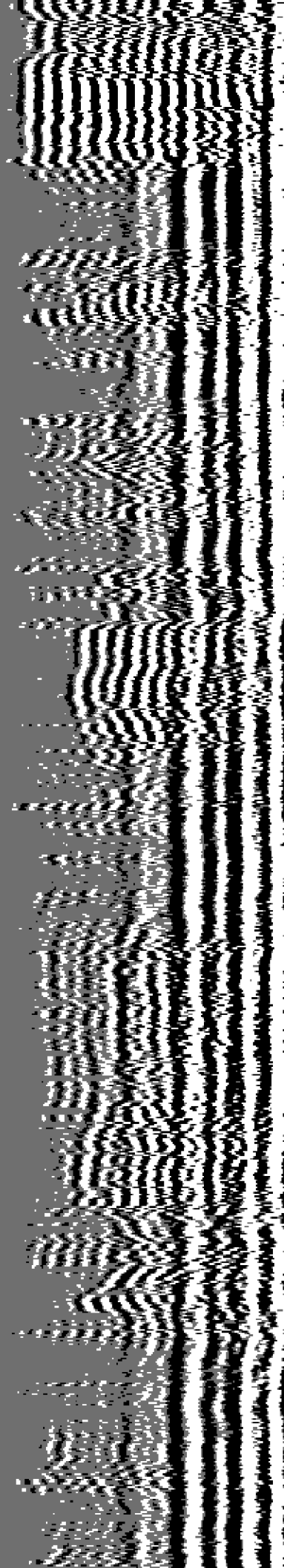
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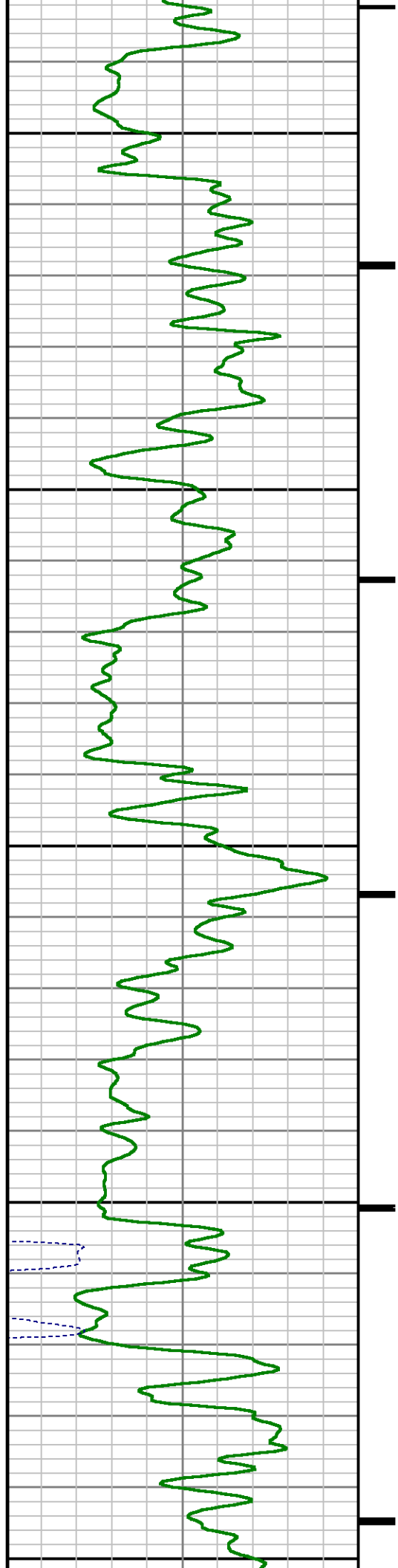
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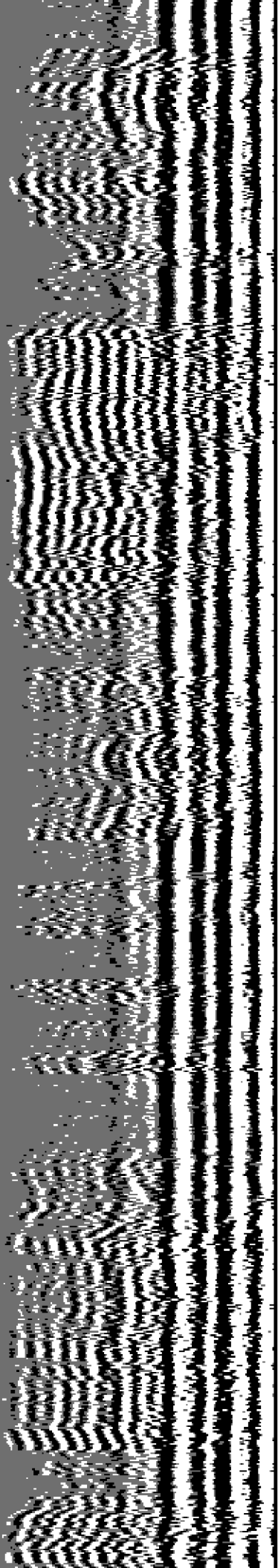




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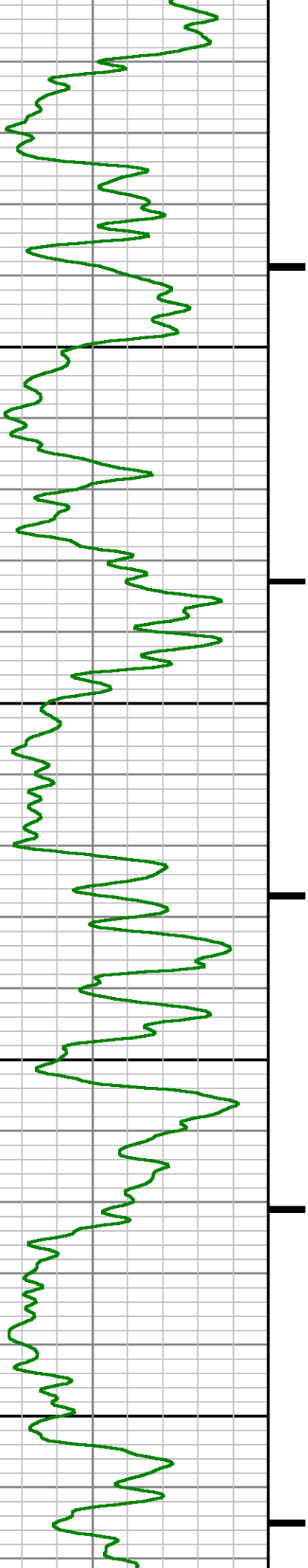
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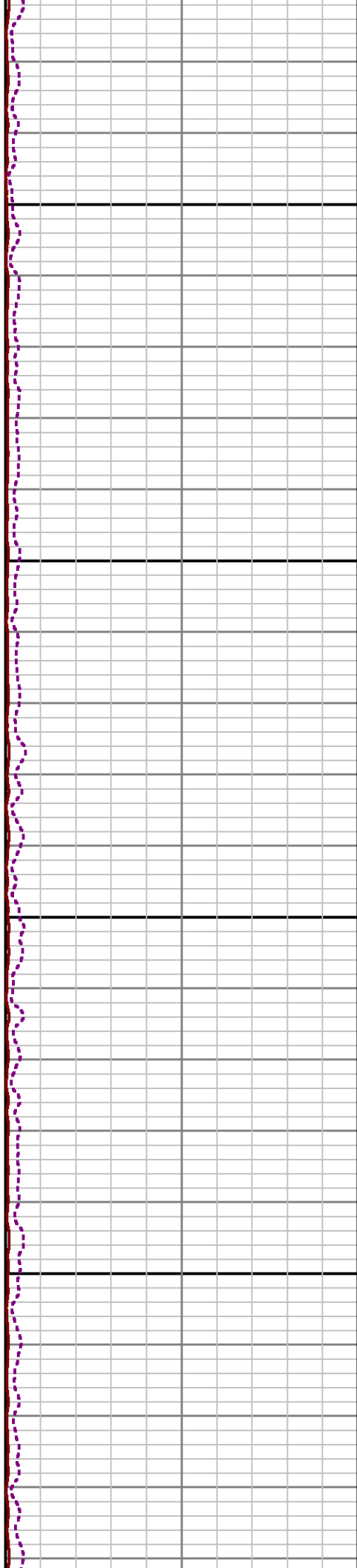
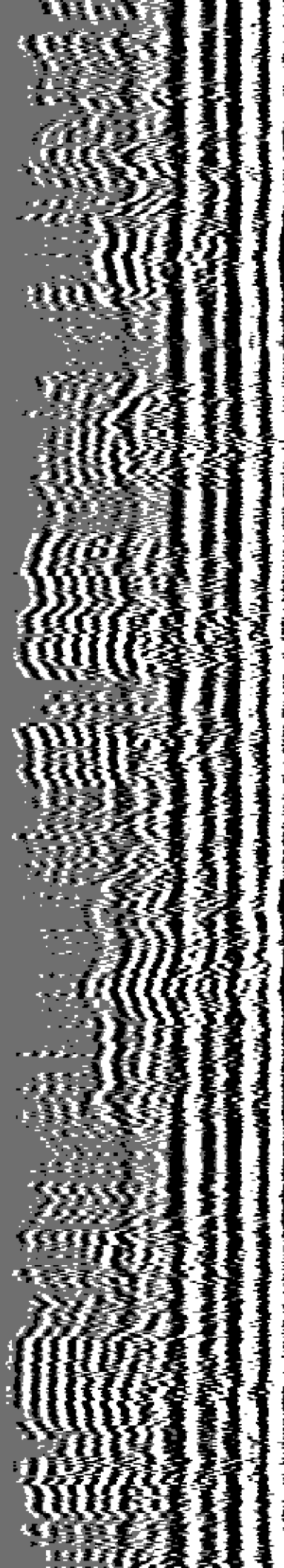




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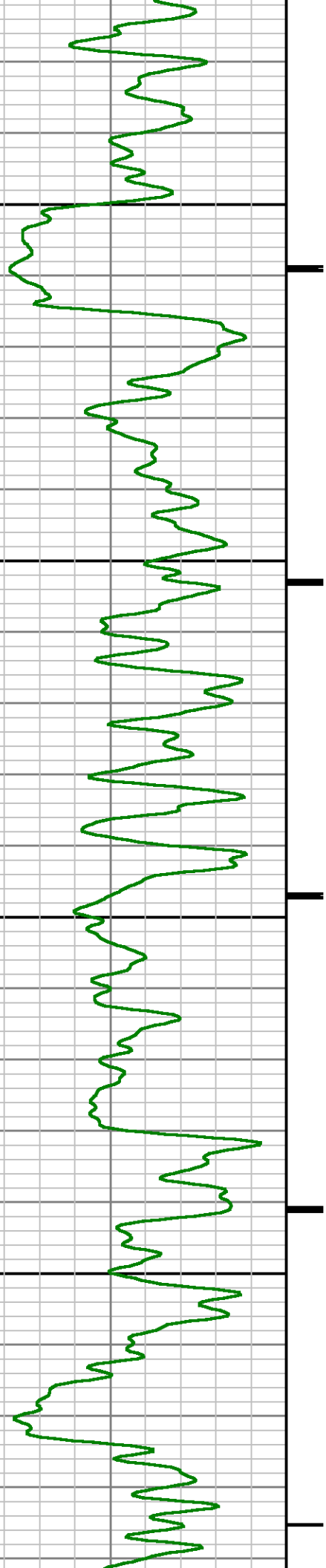
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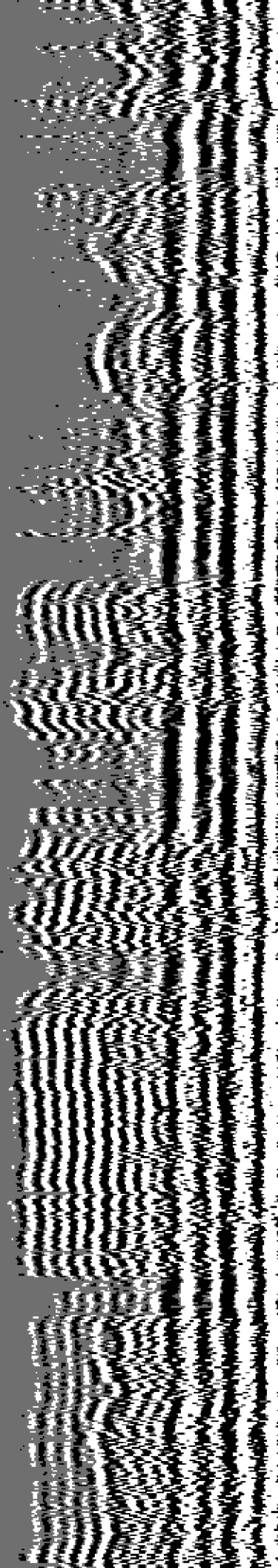




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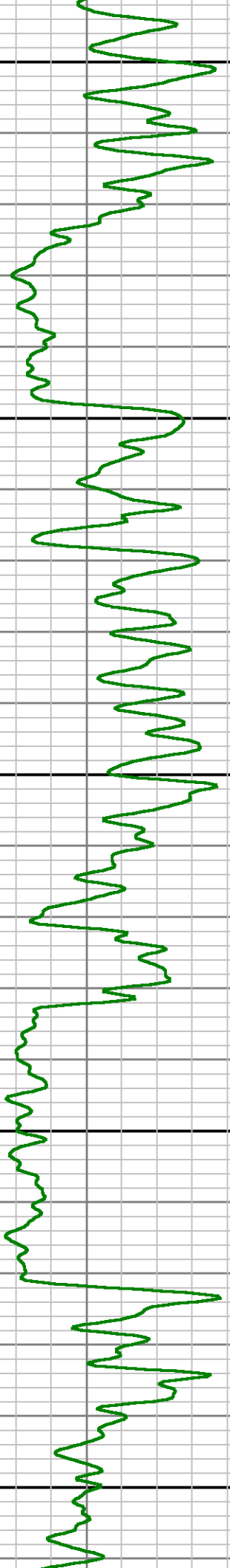




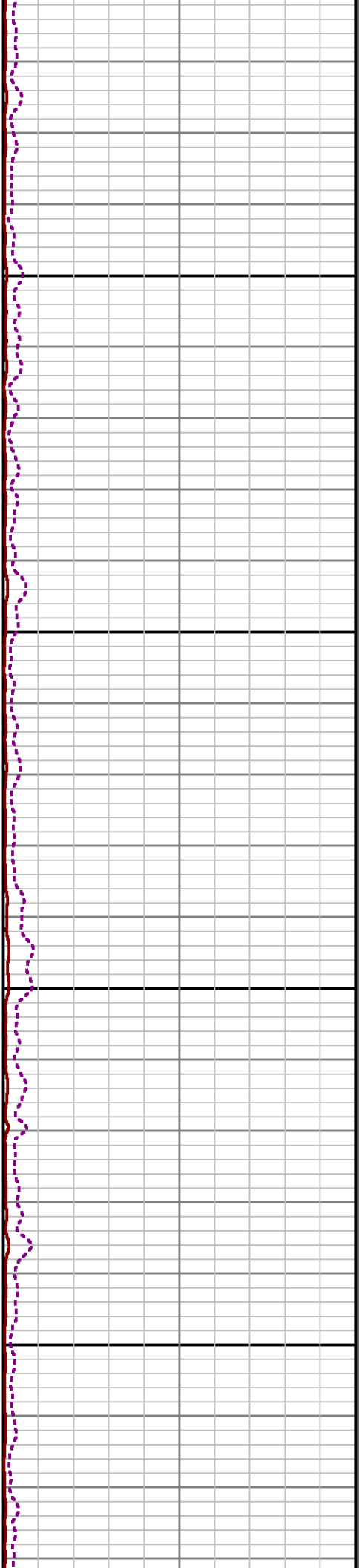
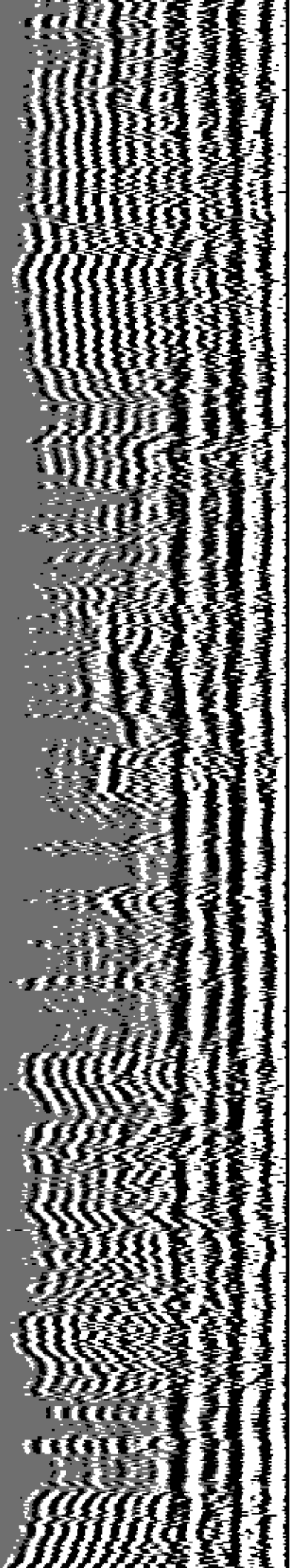
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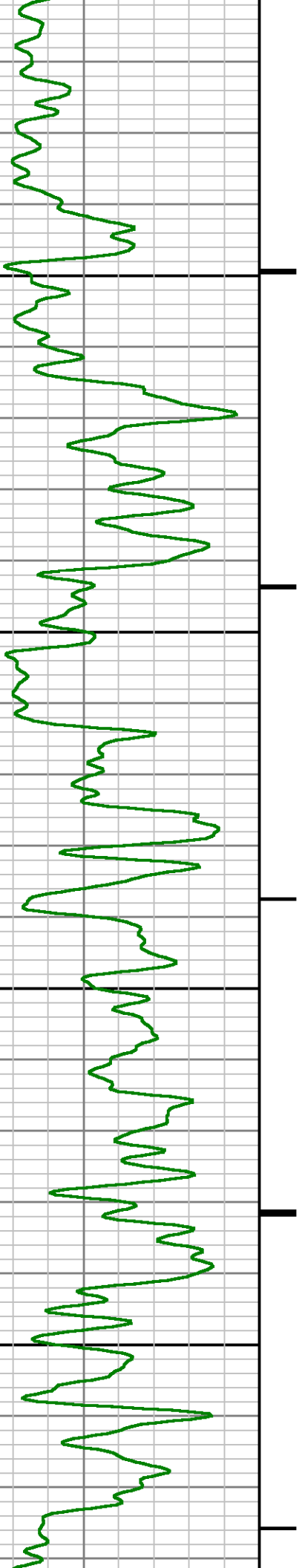


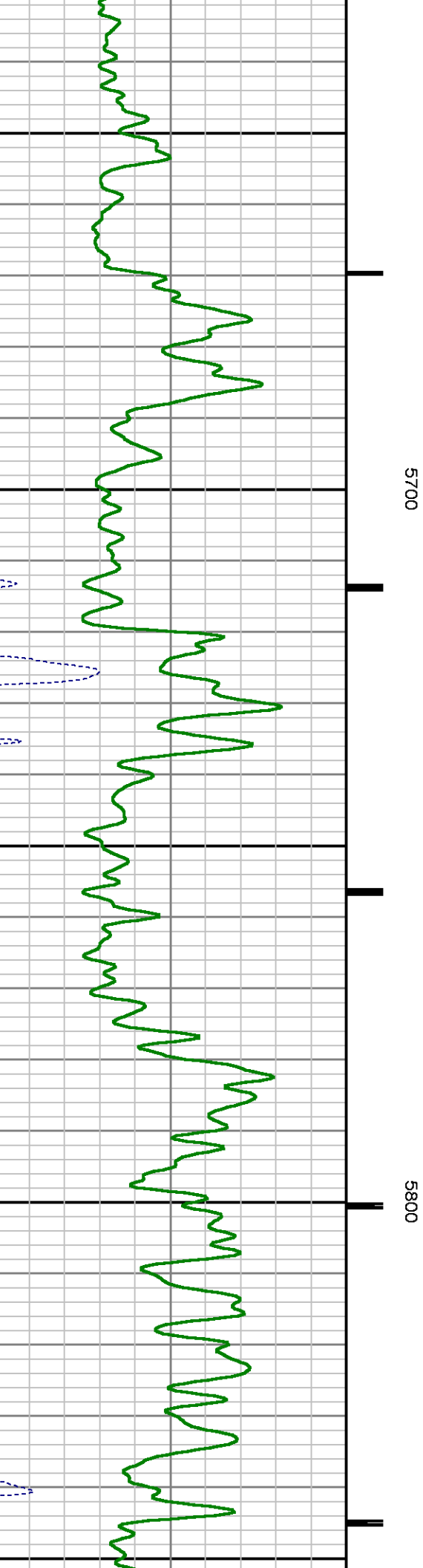
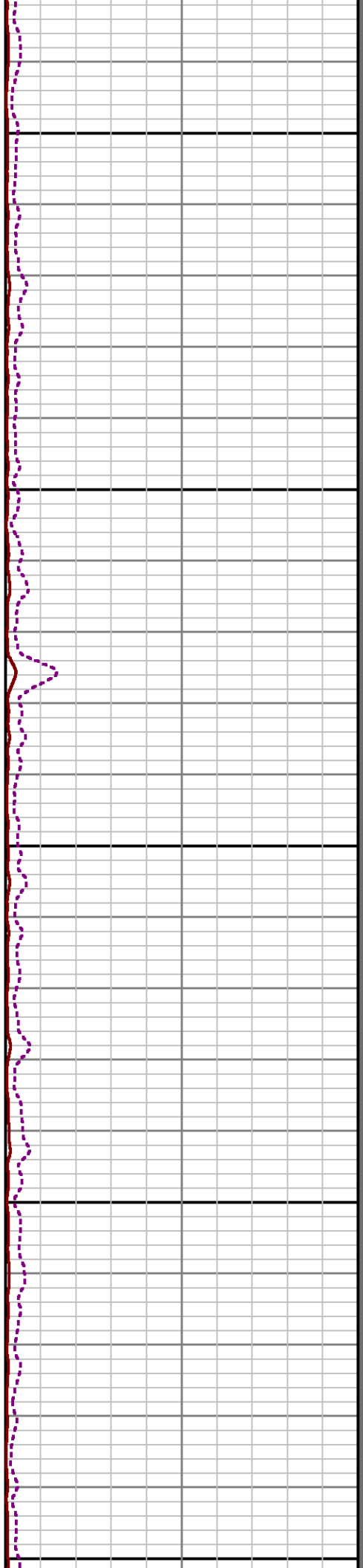
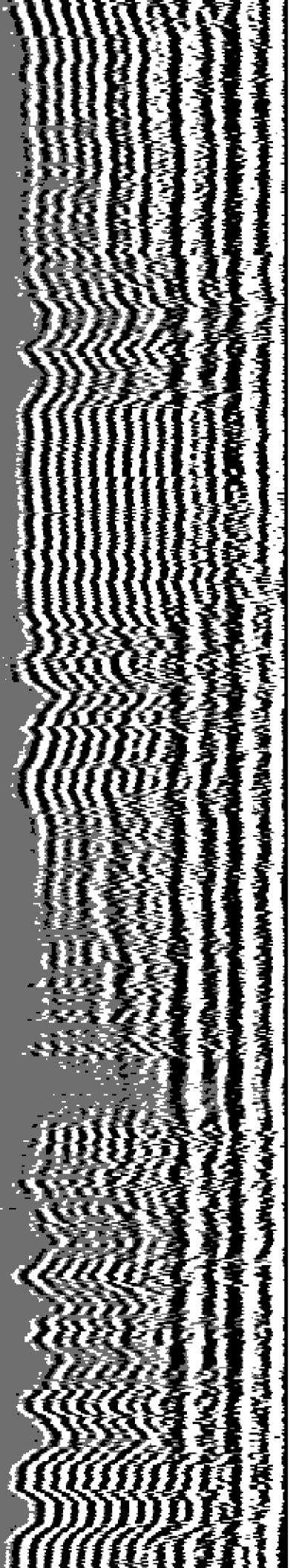
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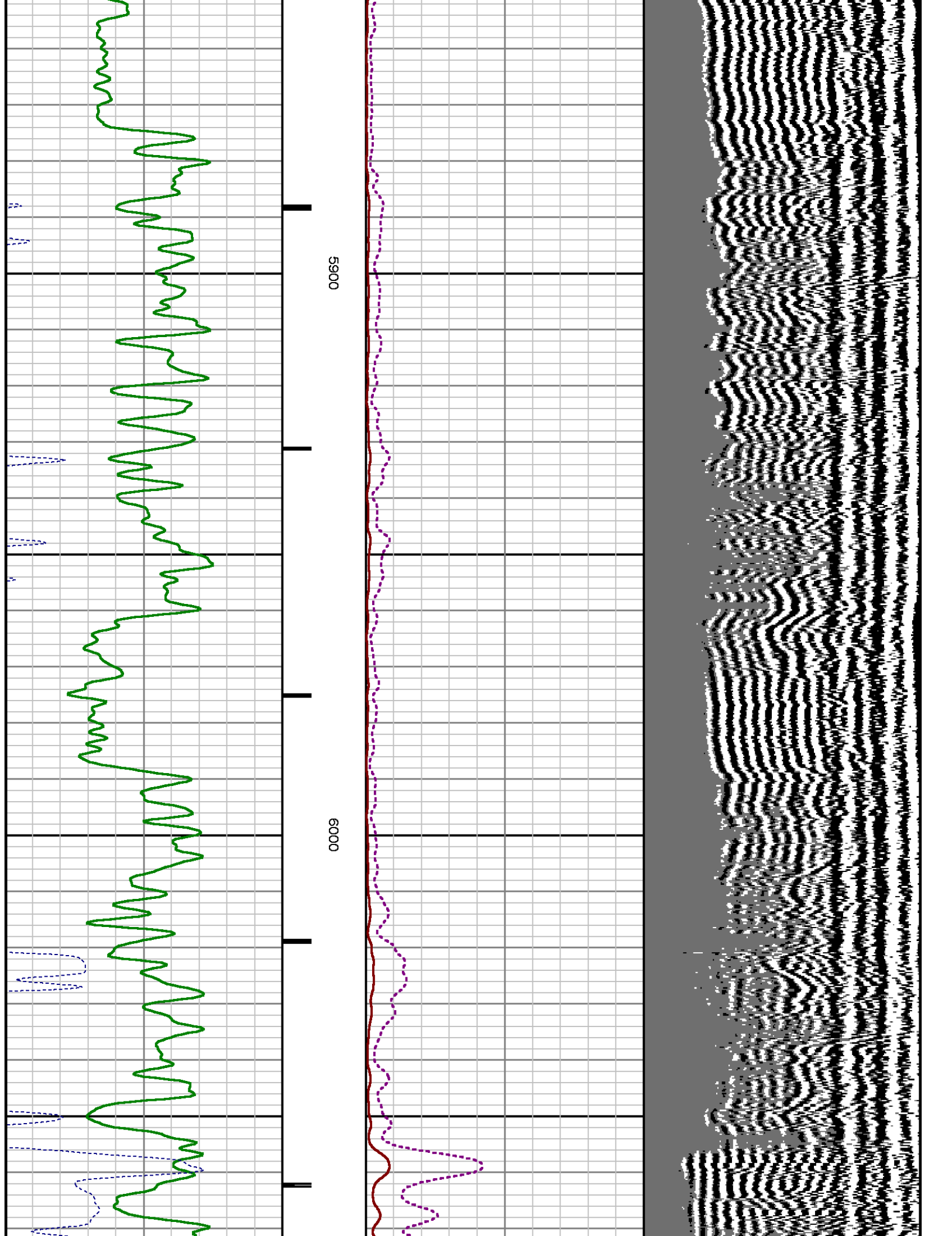


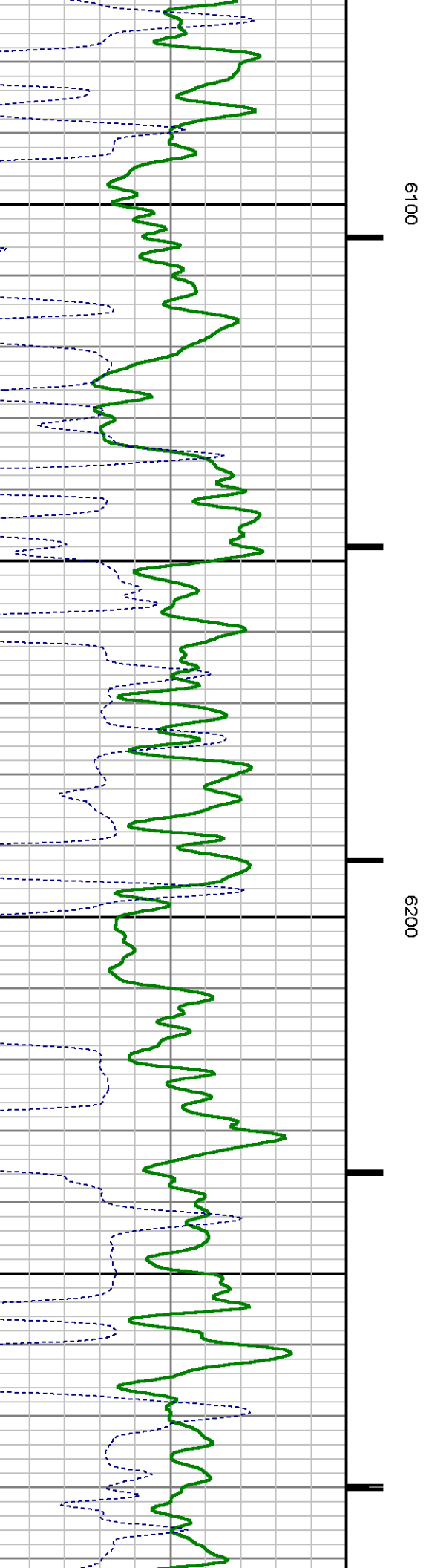
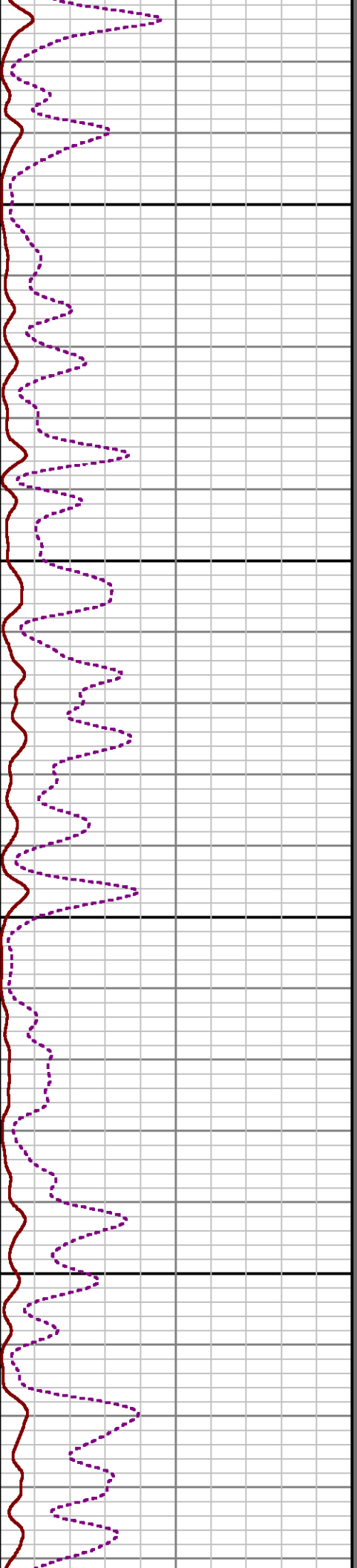
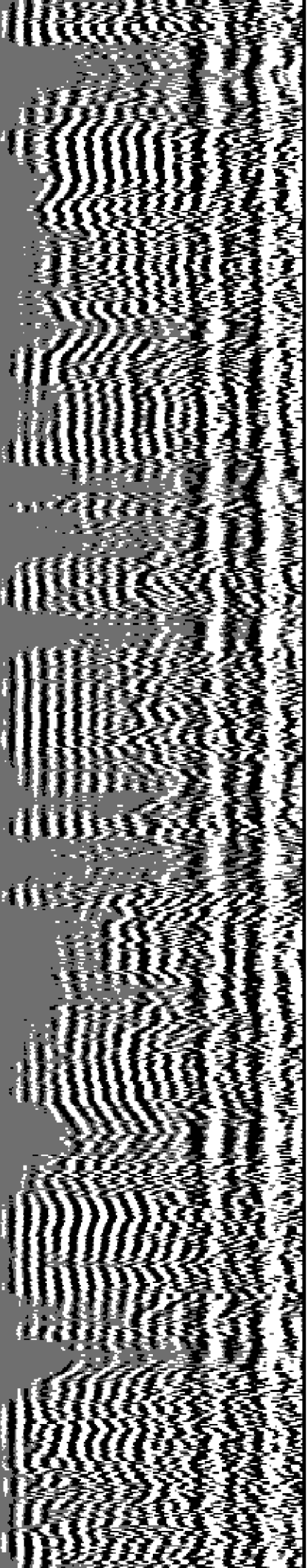
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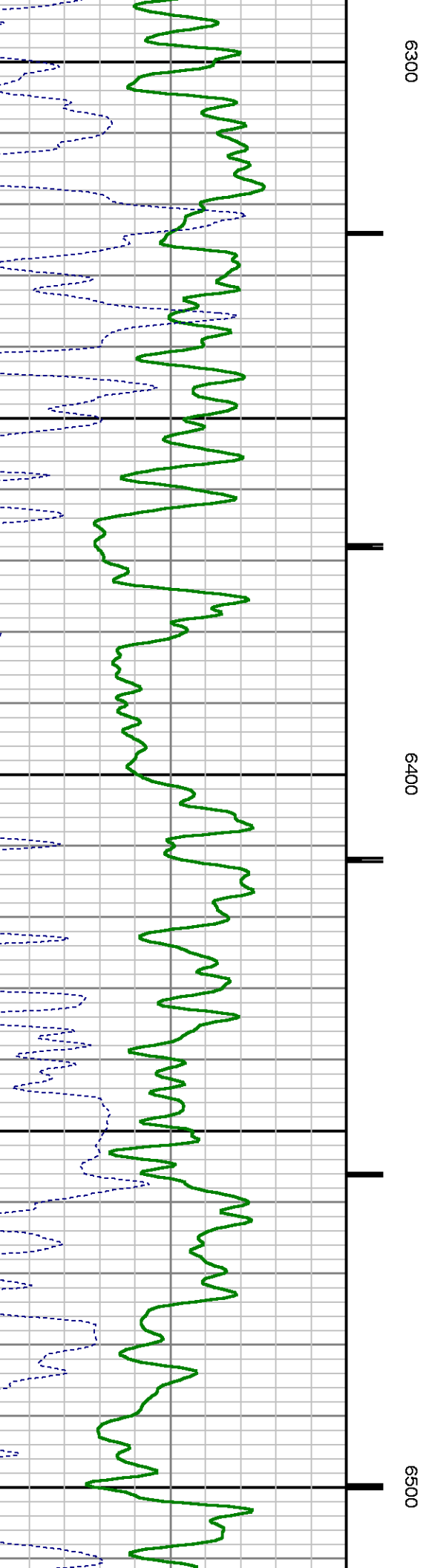
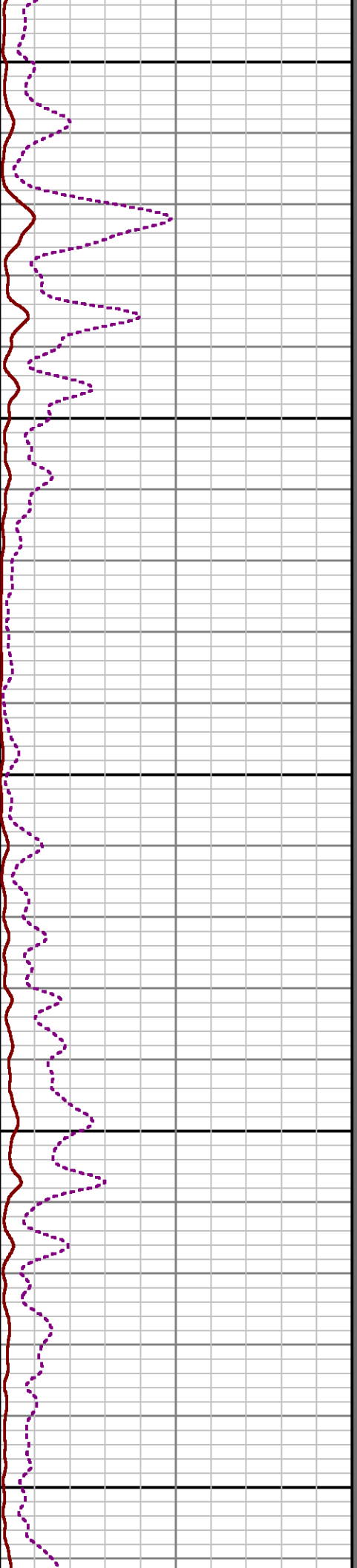
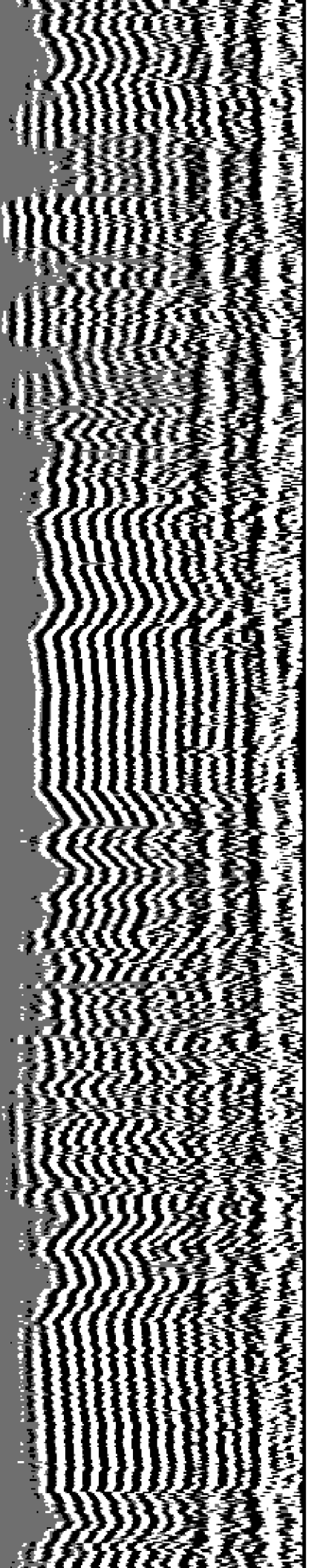
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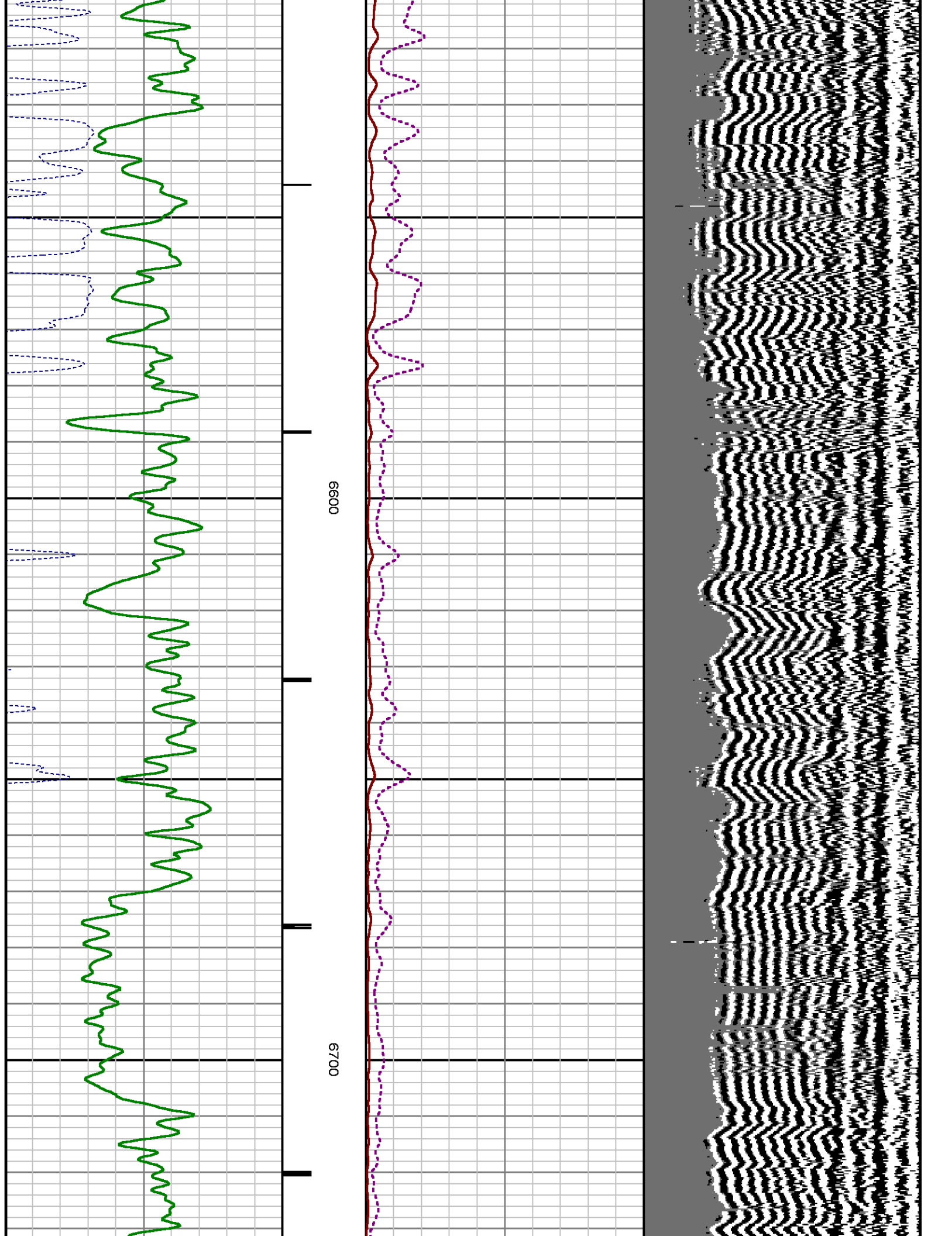


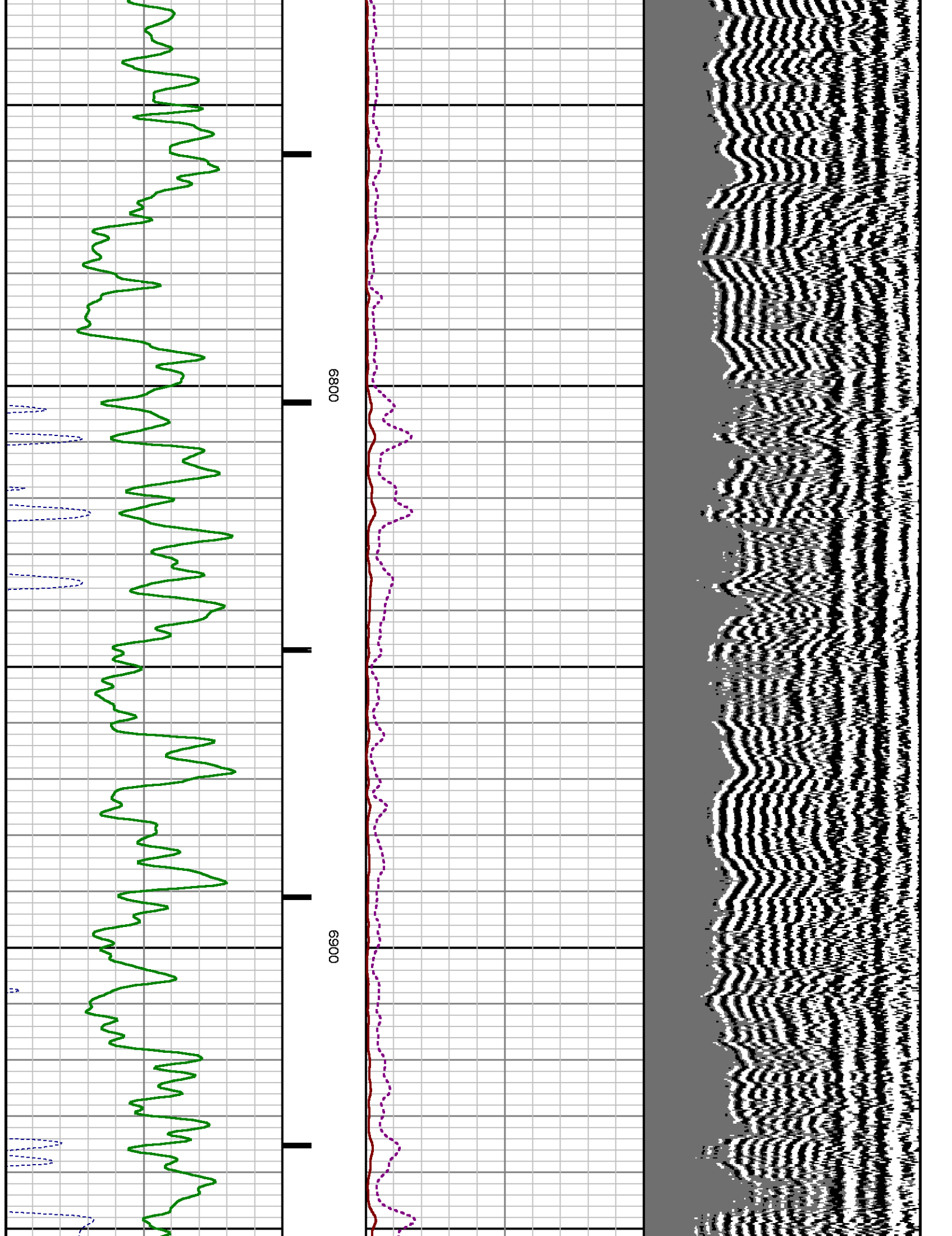


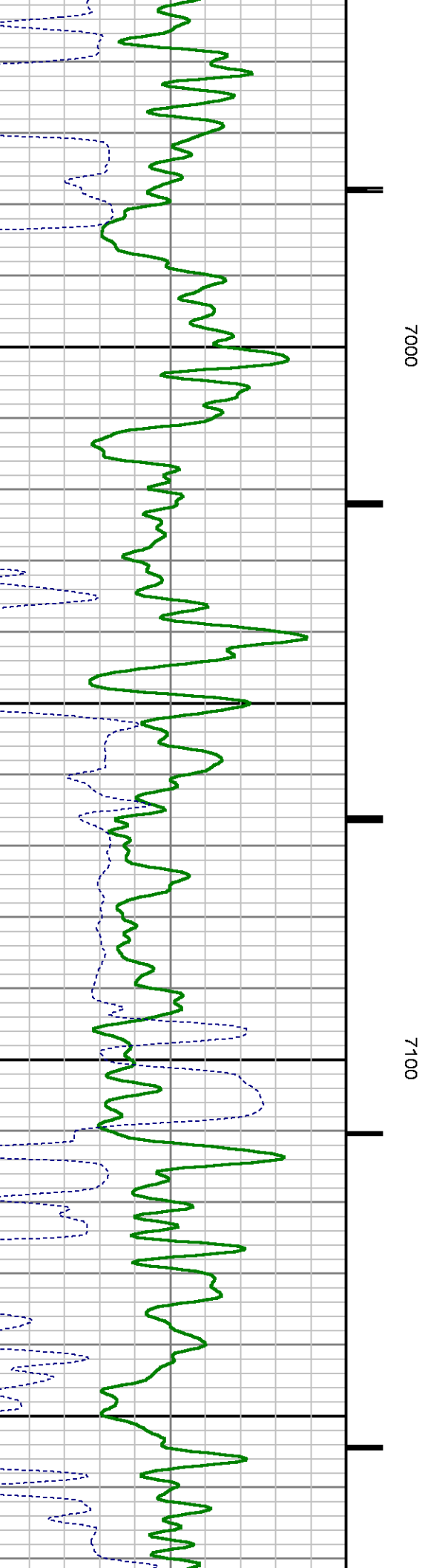
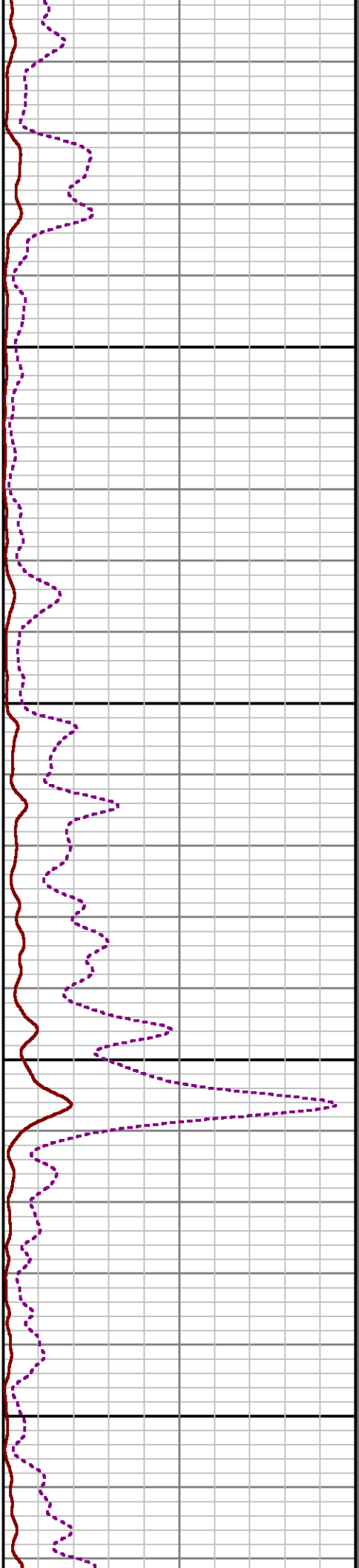
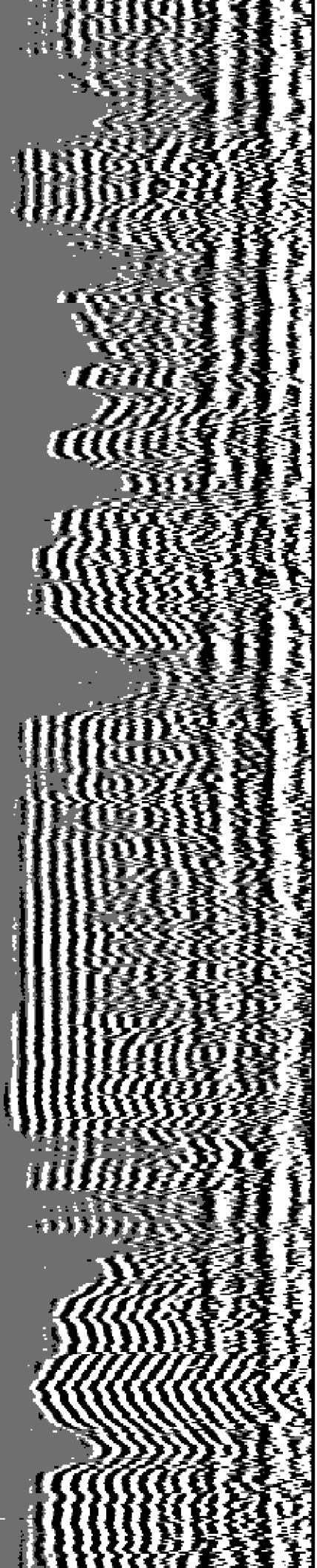


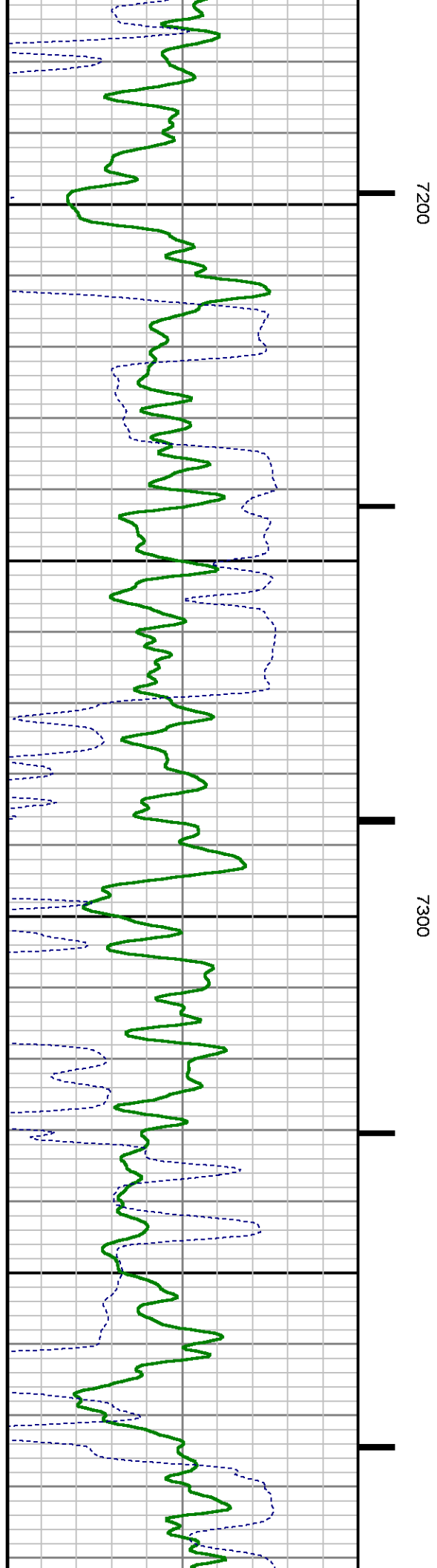
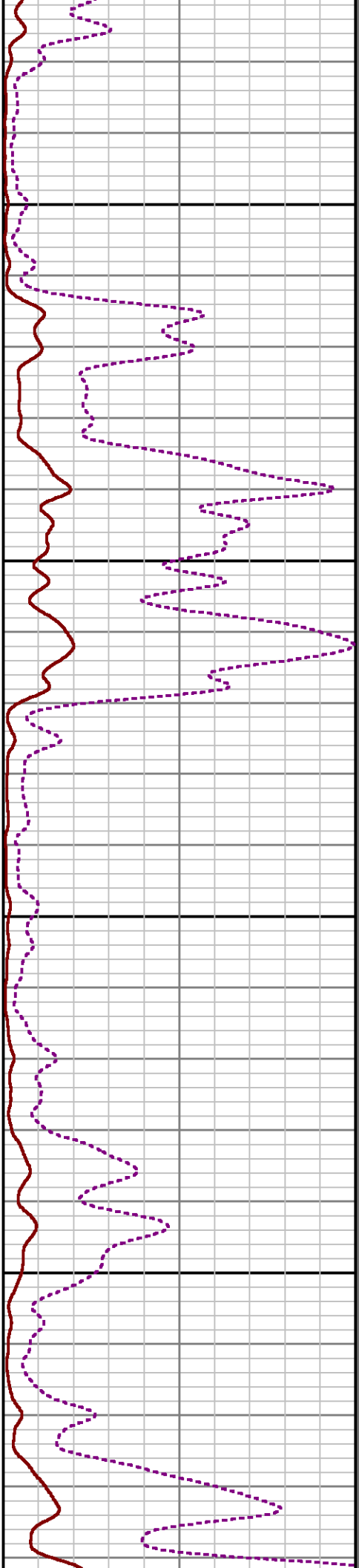
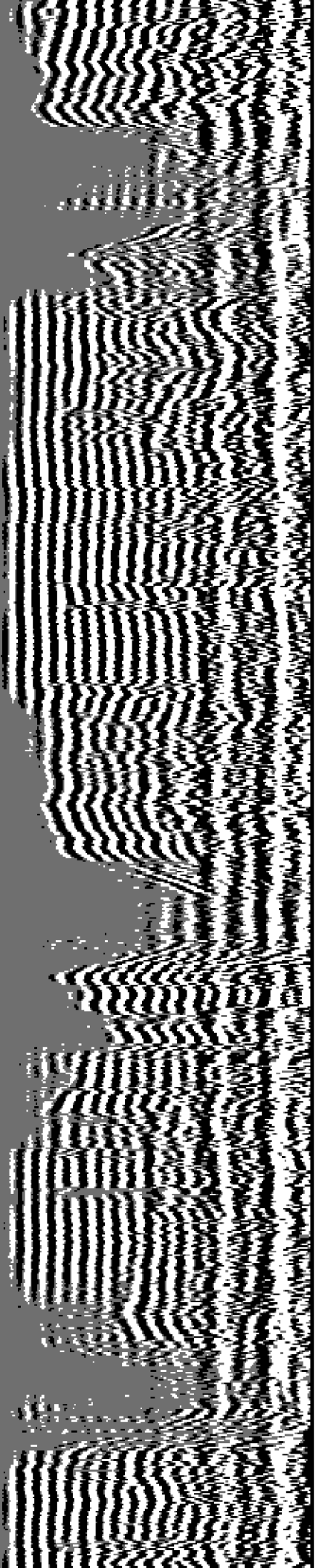


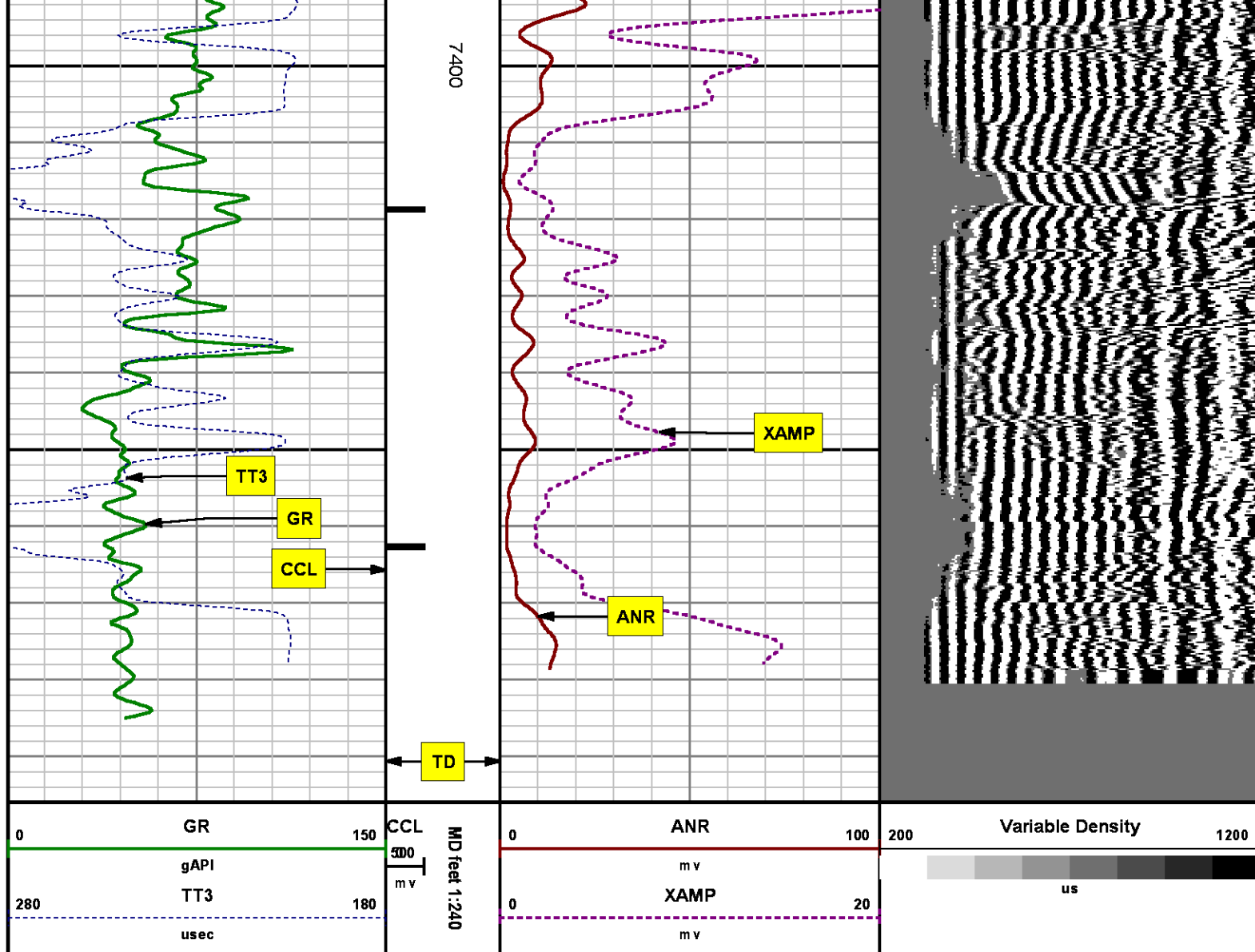












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	34.937	7496.000
RAL	Amp Gate Start Near	195.000	u sec	34.937	7496.000
RAL	Amp Gate Start Radial	195.000	u sec	34.937	7496.000
RAL	Amp Gate Width Far	25.000	u sec	34.937	7496.000
RAL	Amp Gate Width Near	25.000	u sec	34.937	7496.000

RAL	Amp Gate Width Radial	25.000	usec	34.937	7496.000
RAL	casing od	4.500	inches	34.937	7496.000
RAL	casing wt	11.600	lbm/ft	34.937	7496.000
RAL	FB Start Far	291.900	usec	34.937	7496.000
RAL	FB Start Near	180.000	usec	34.937	7496.000
RAL	FB Start Radial	180.000	usec	34.937	7496.000
RAL	FB Thresh Far	15.000	mv	34.937	7496.000
RAL	FB Thresh Near	10.000	mv	34.937	7496.000
RAL	FB Thresh Radial	10.000	mv	34.937	7496.000
RAL	Fluid Travel Time	200.000	usec/ft	34.937	7495.937

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

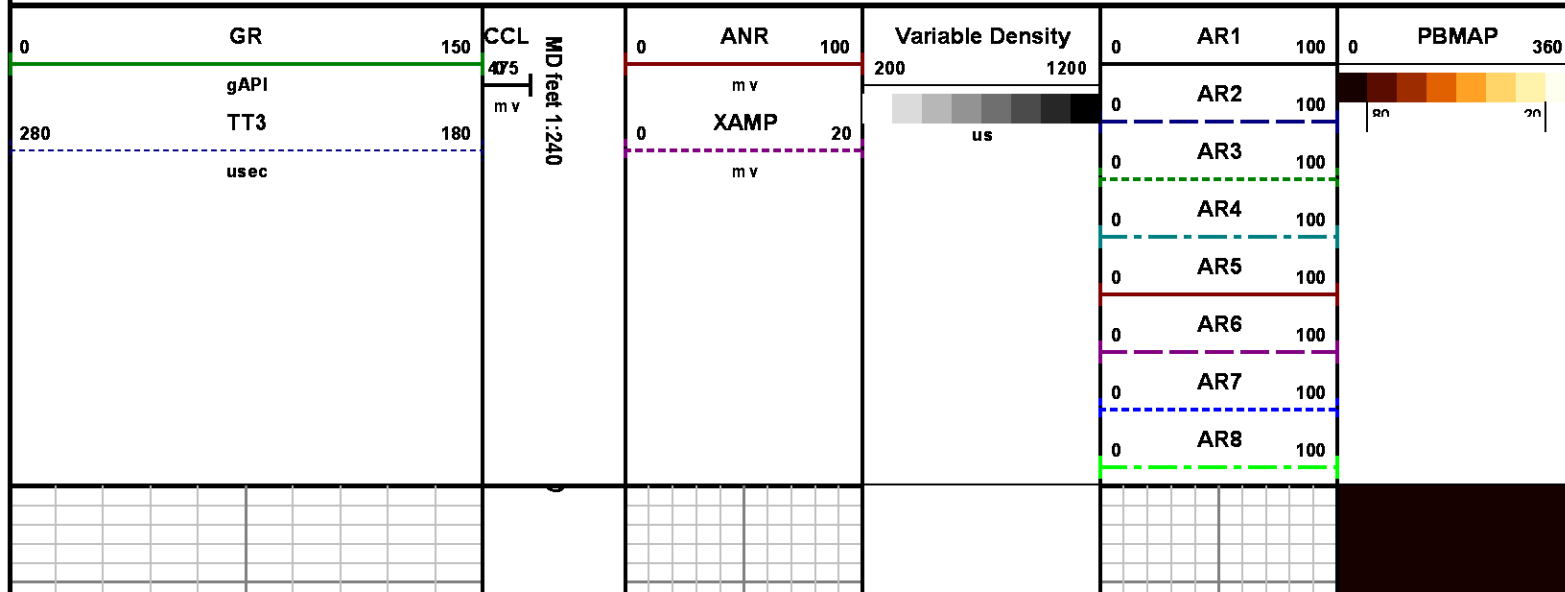
Well : WPX ENERGY PA 14-2

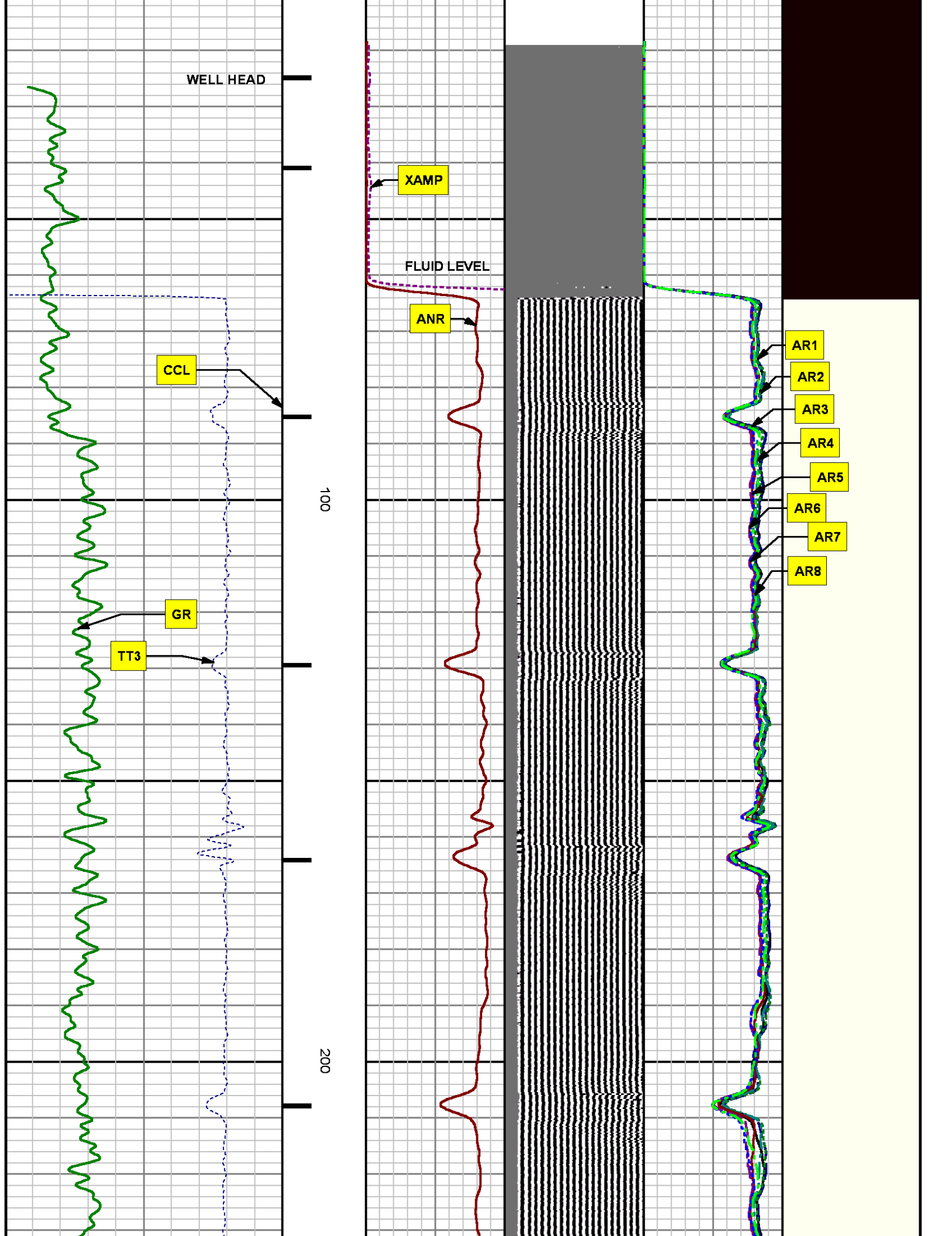
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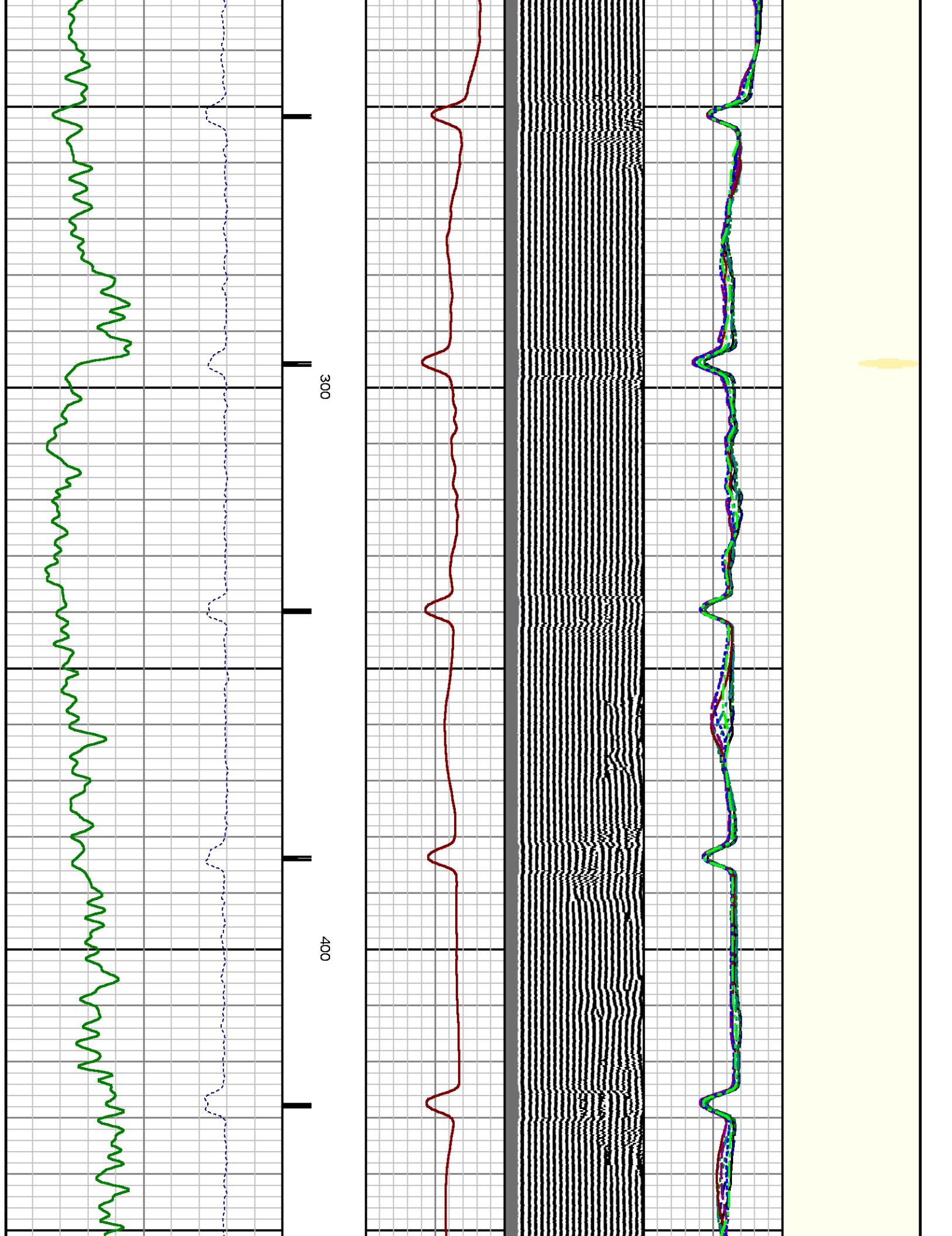
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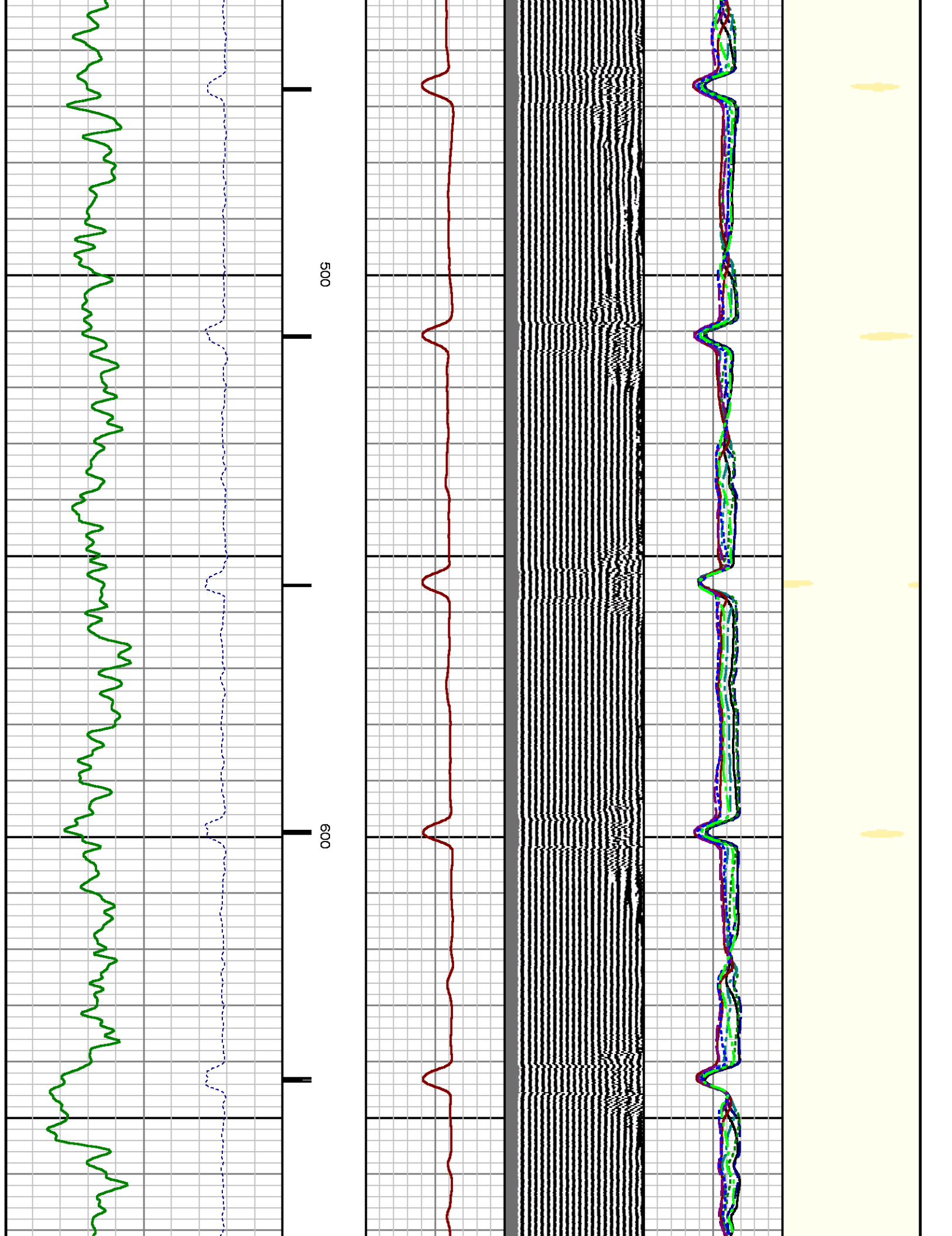
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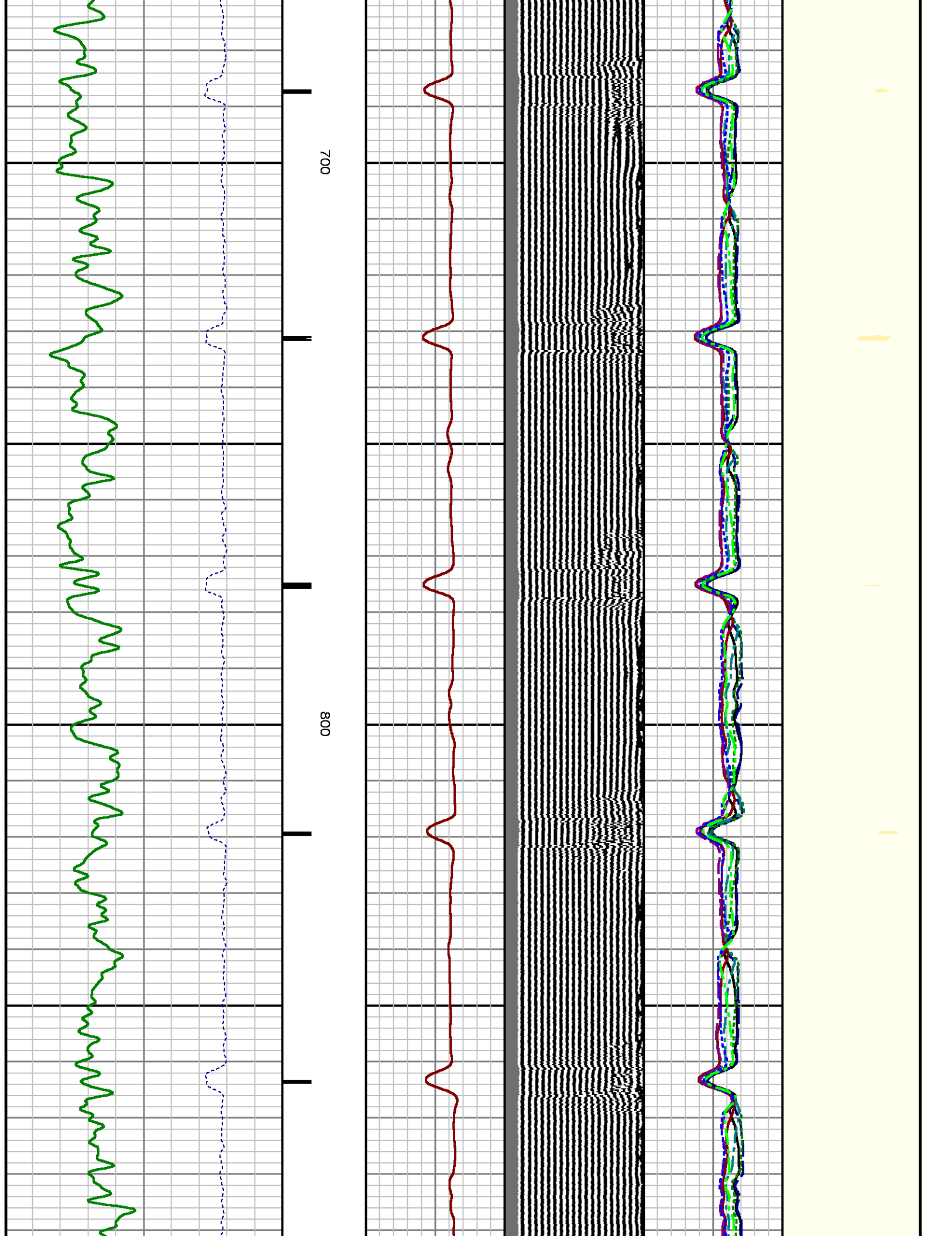
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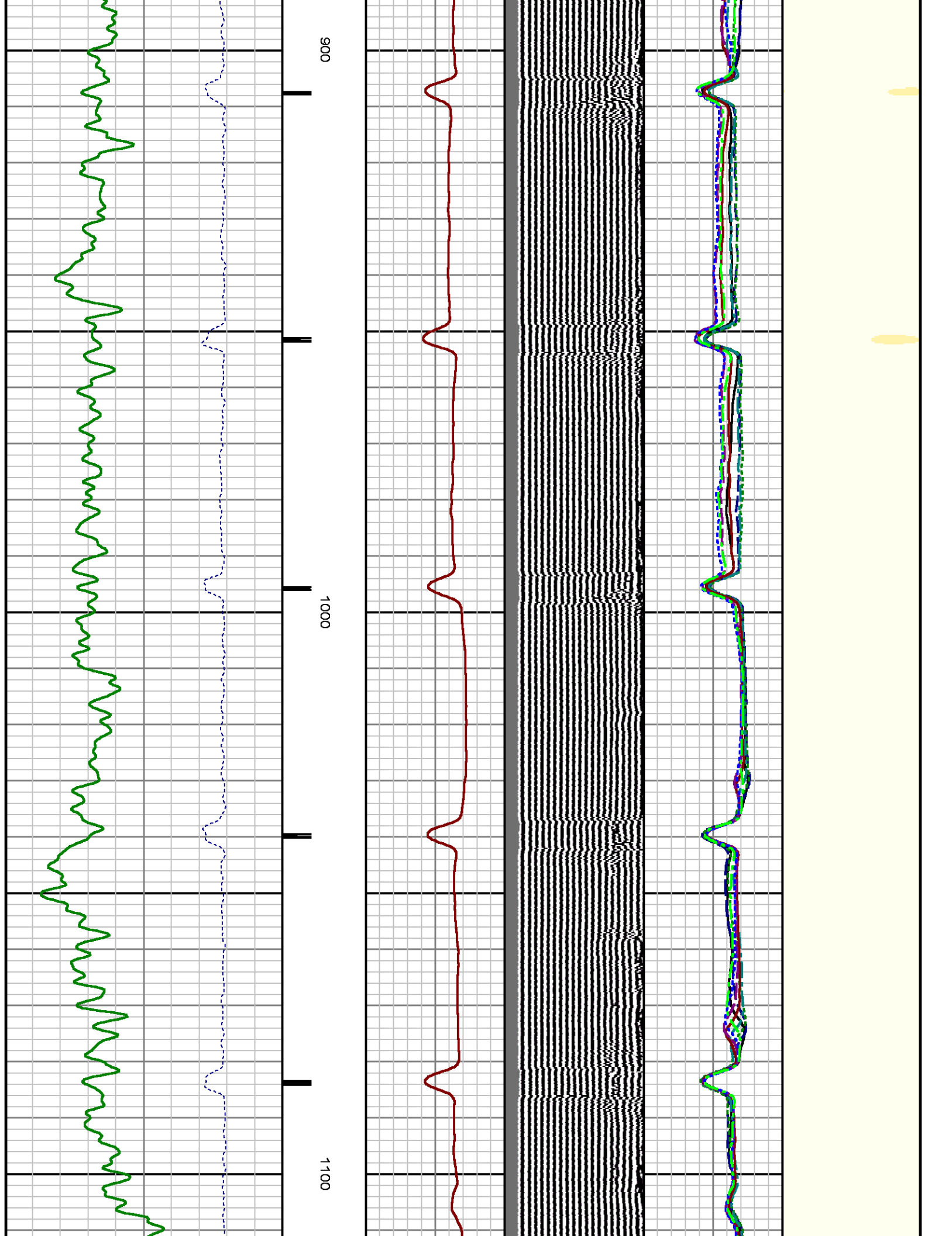


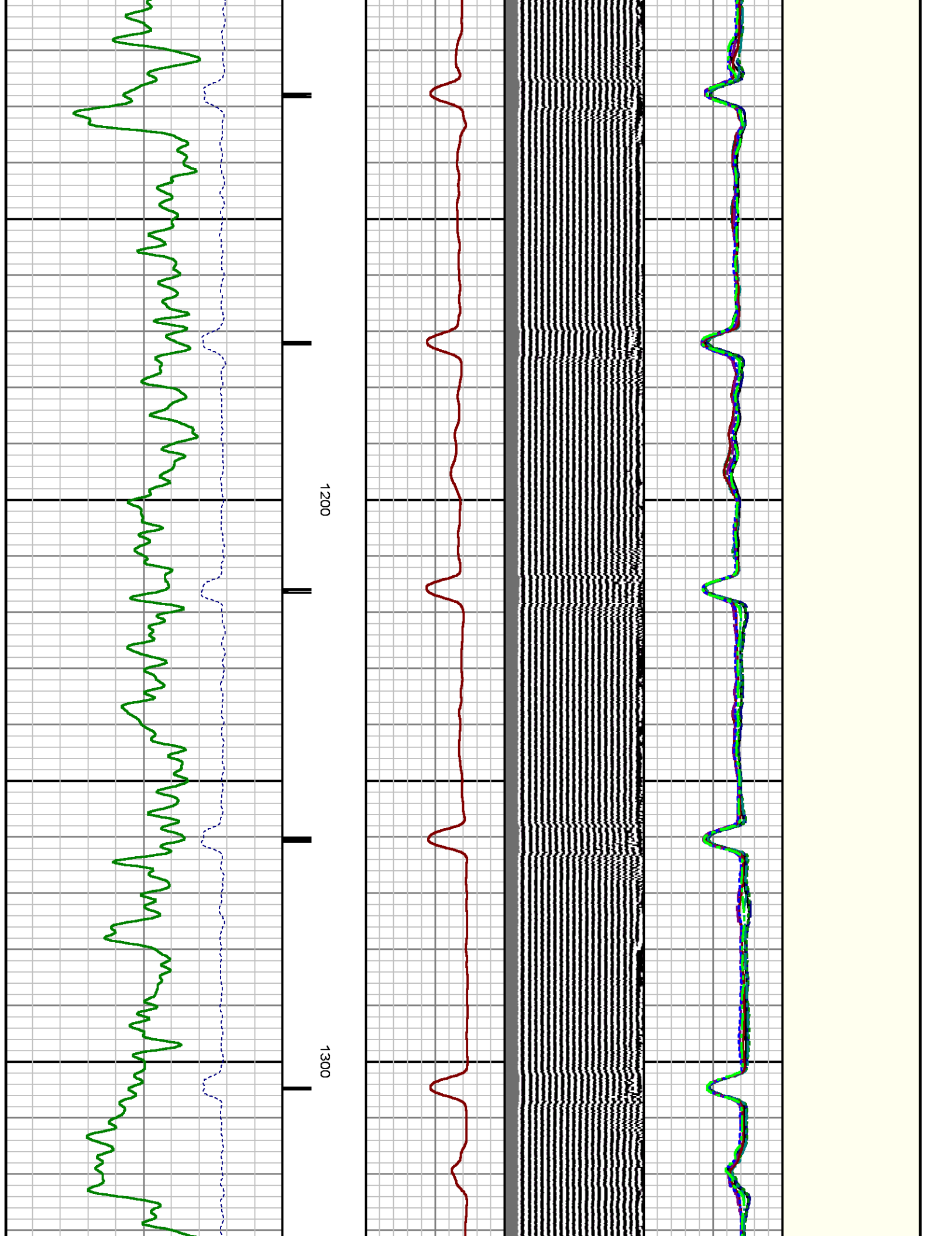


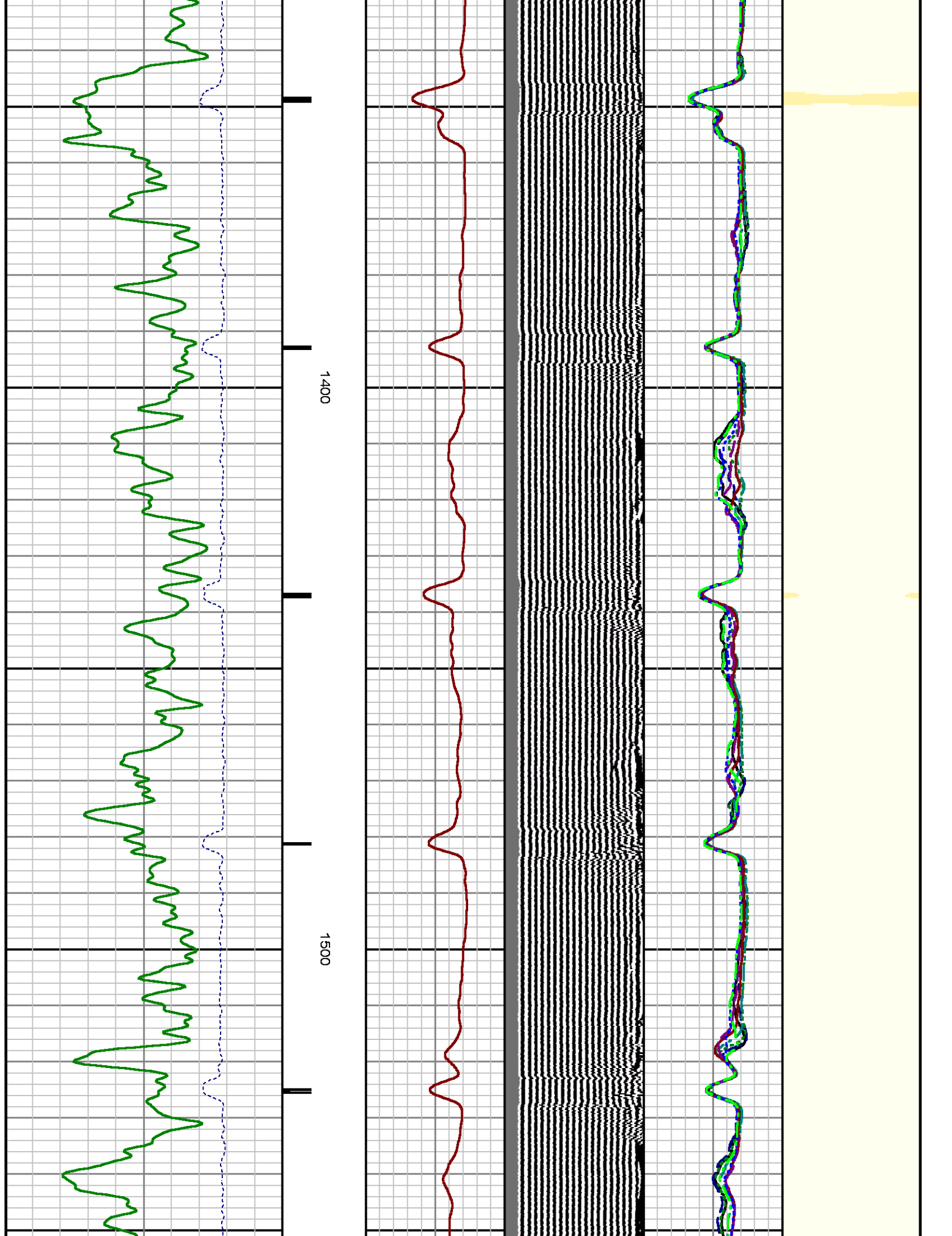


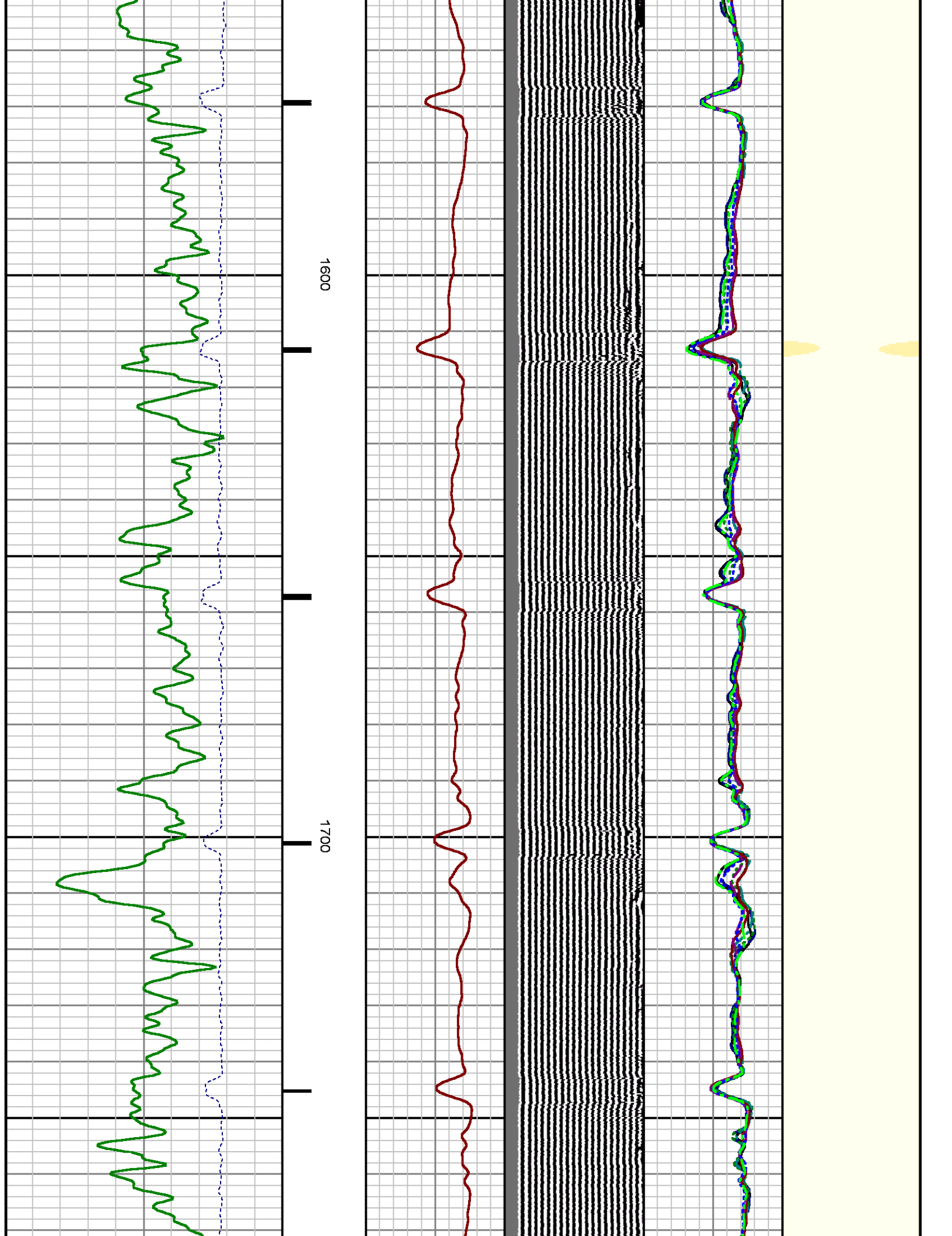


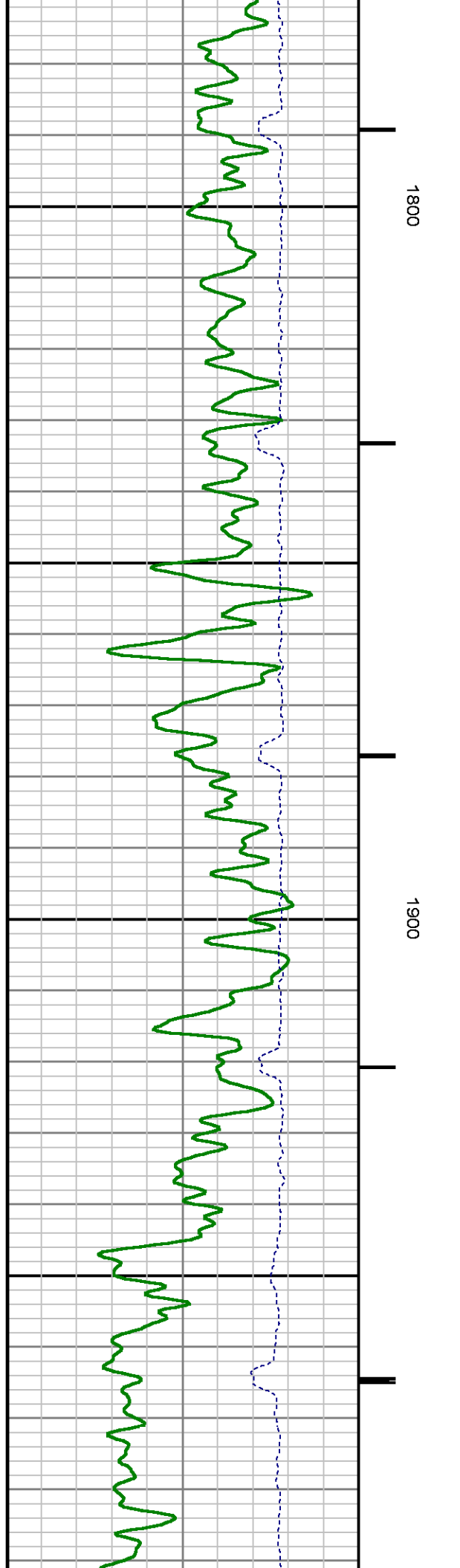
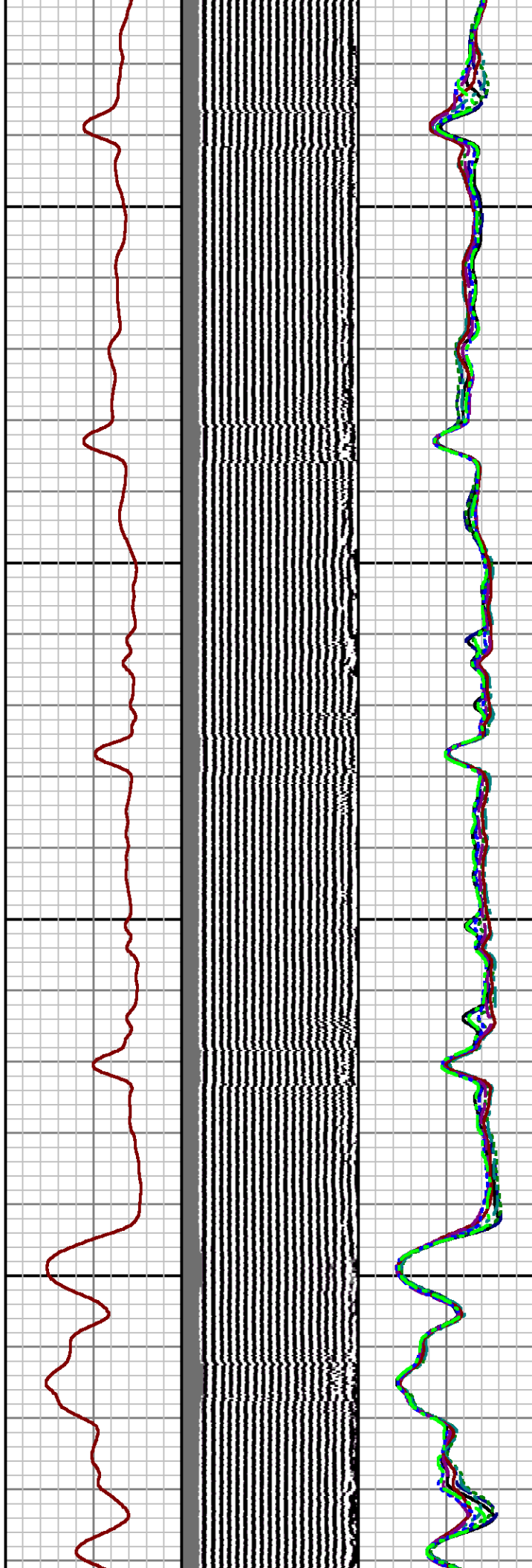
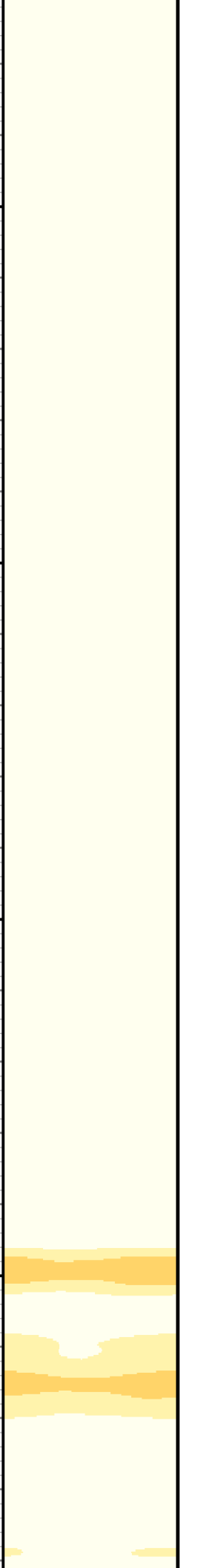


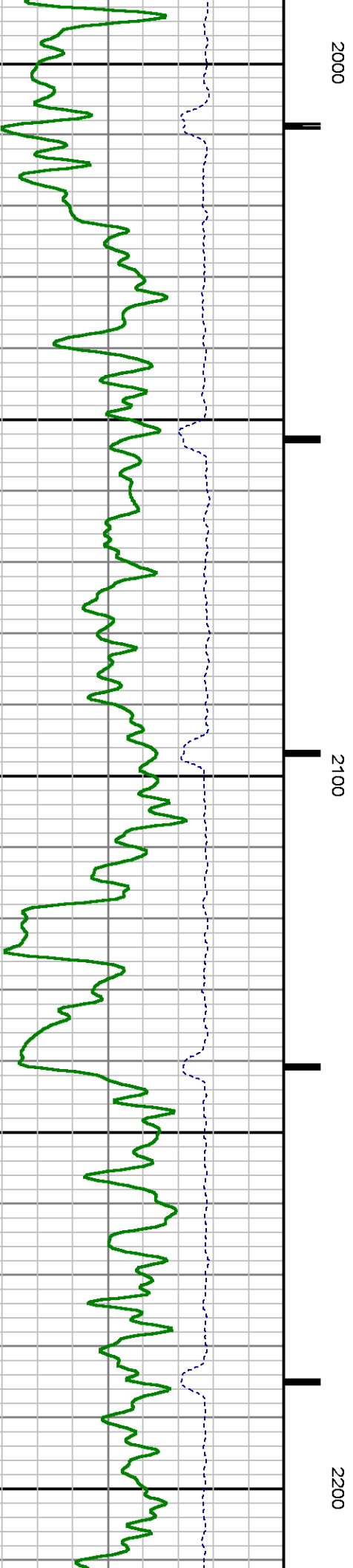
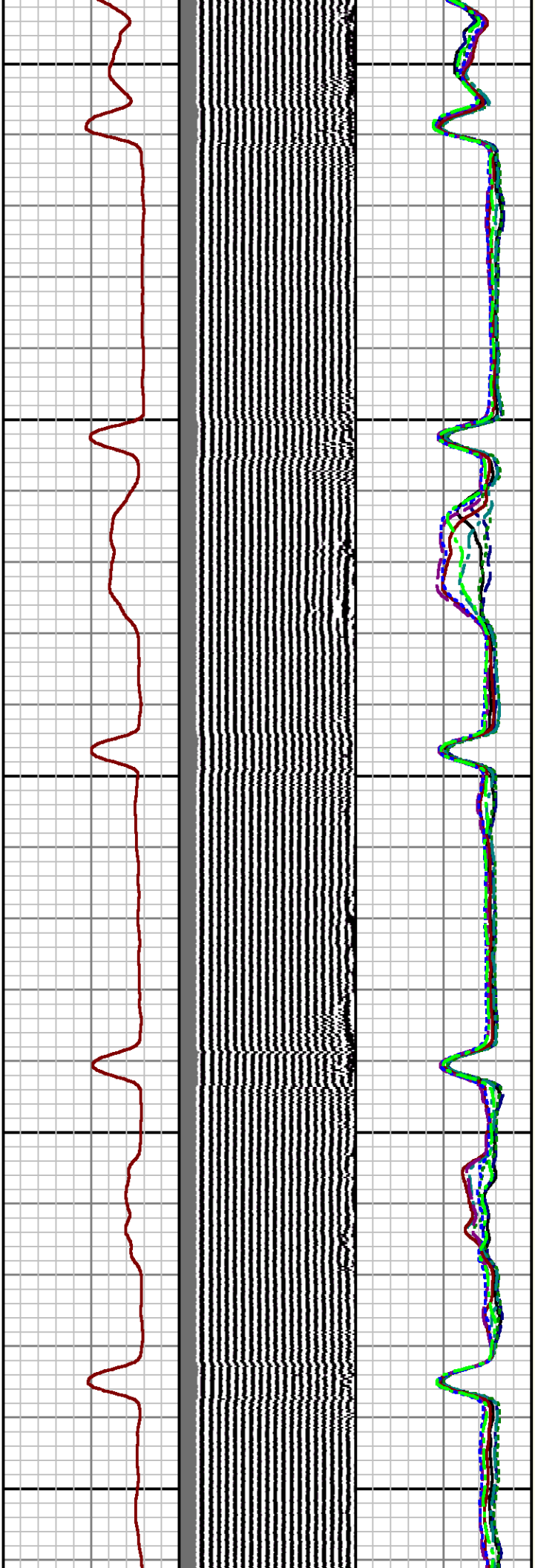


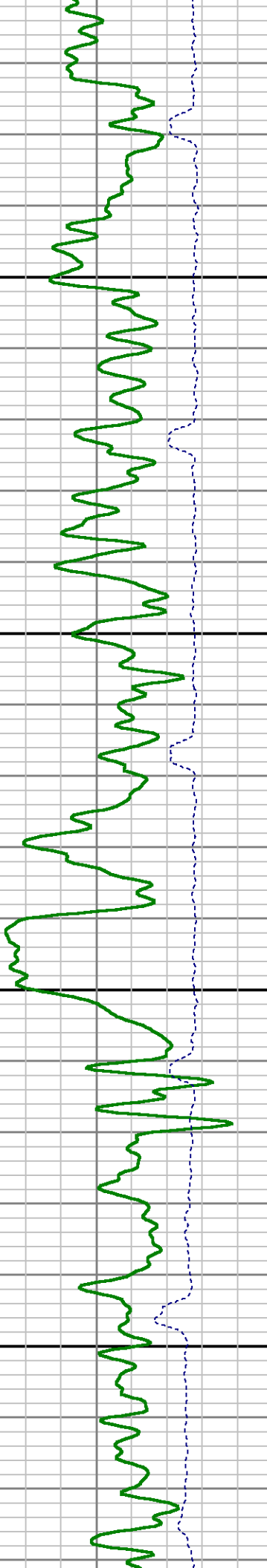
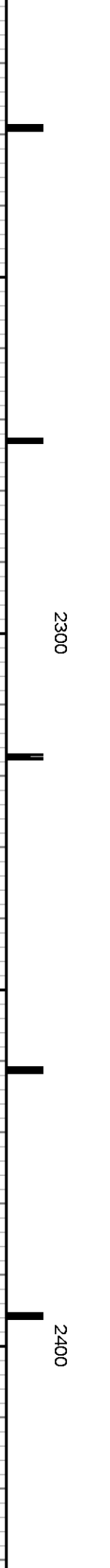
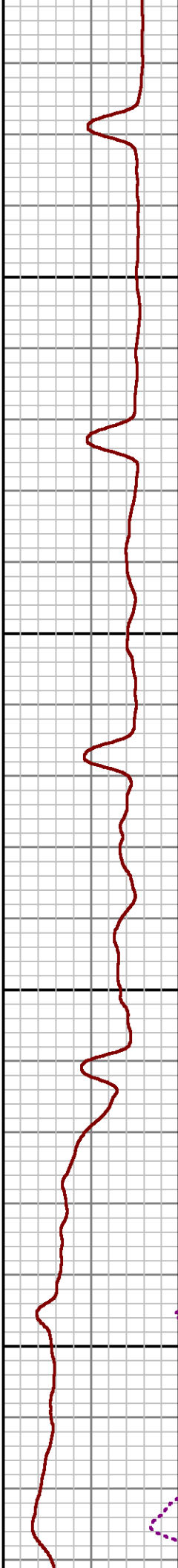
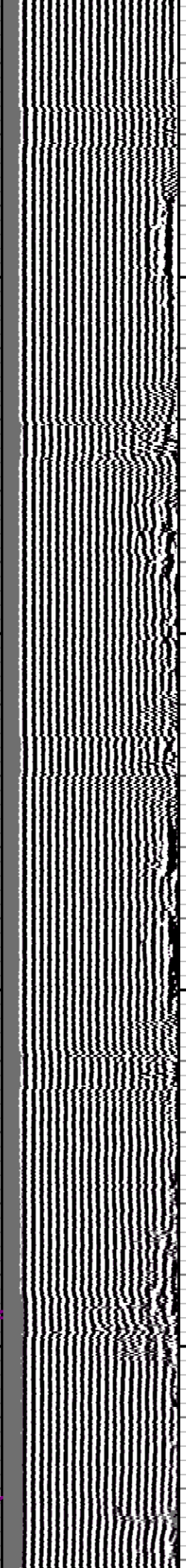
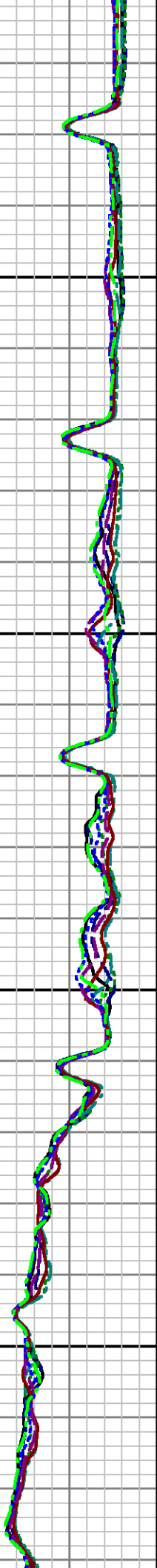
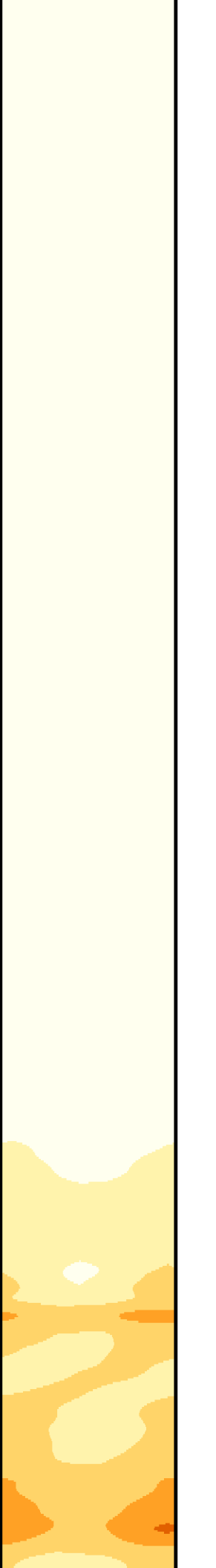


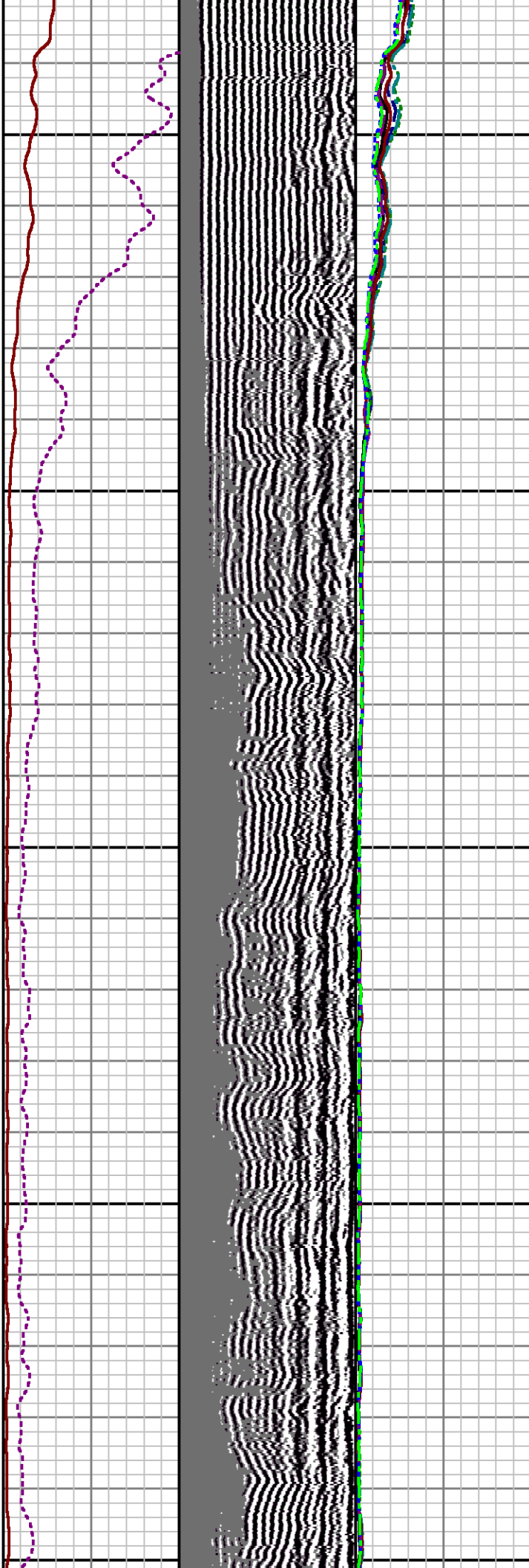






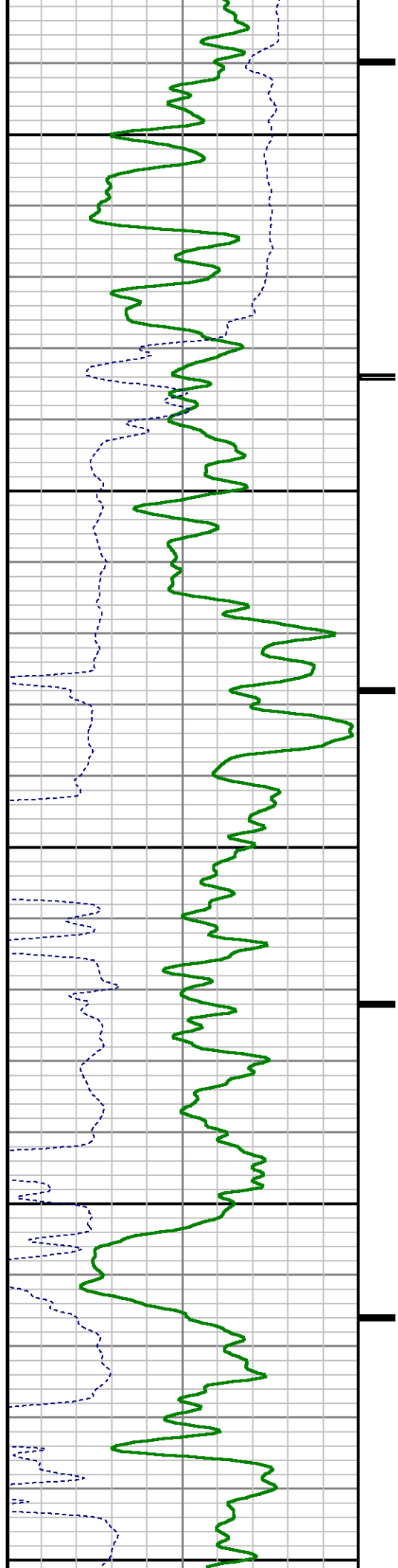


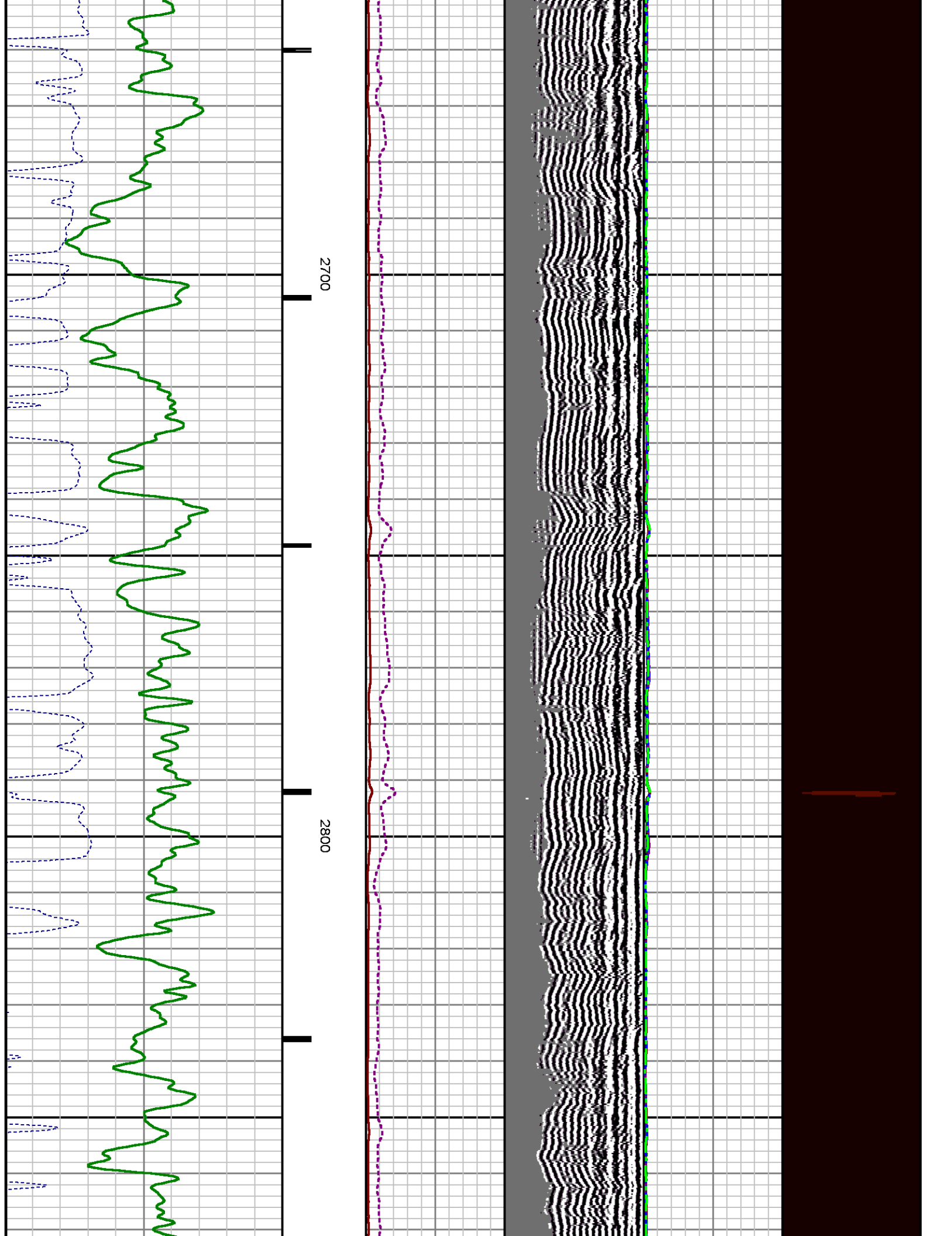


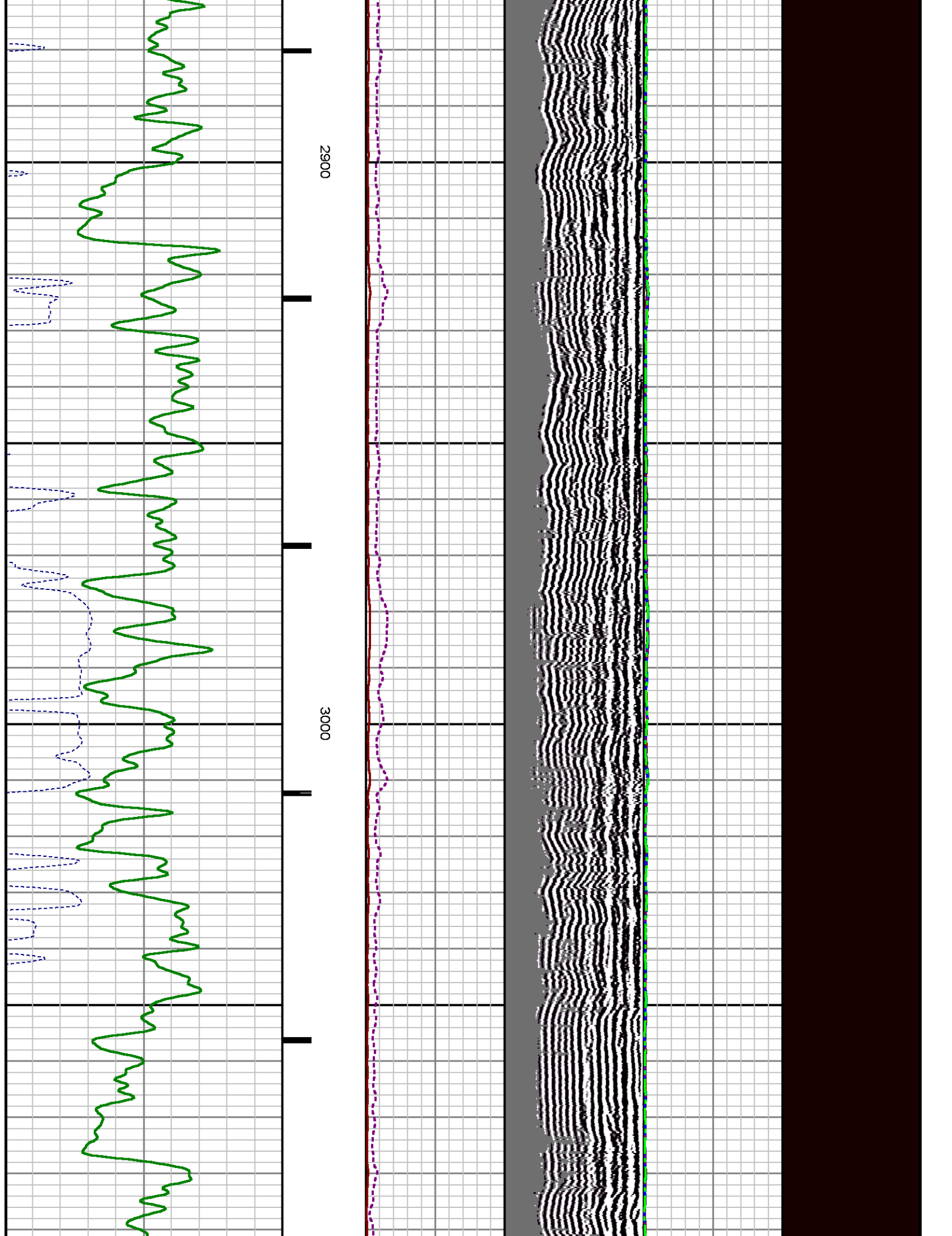


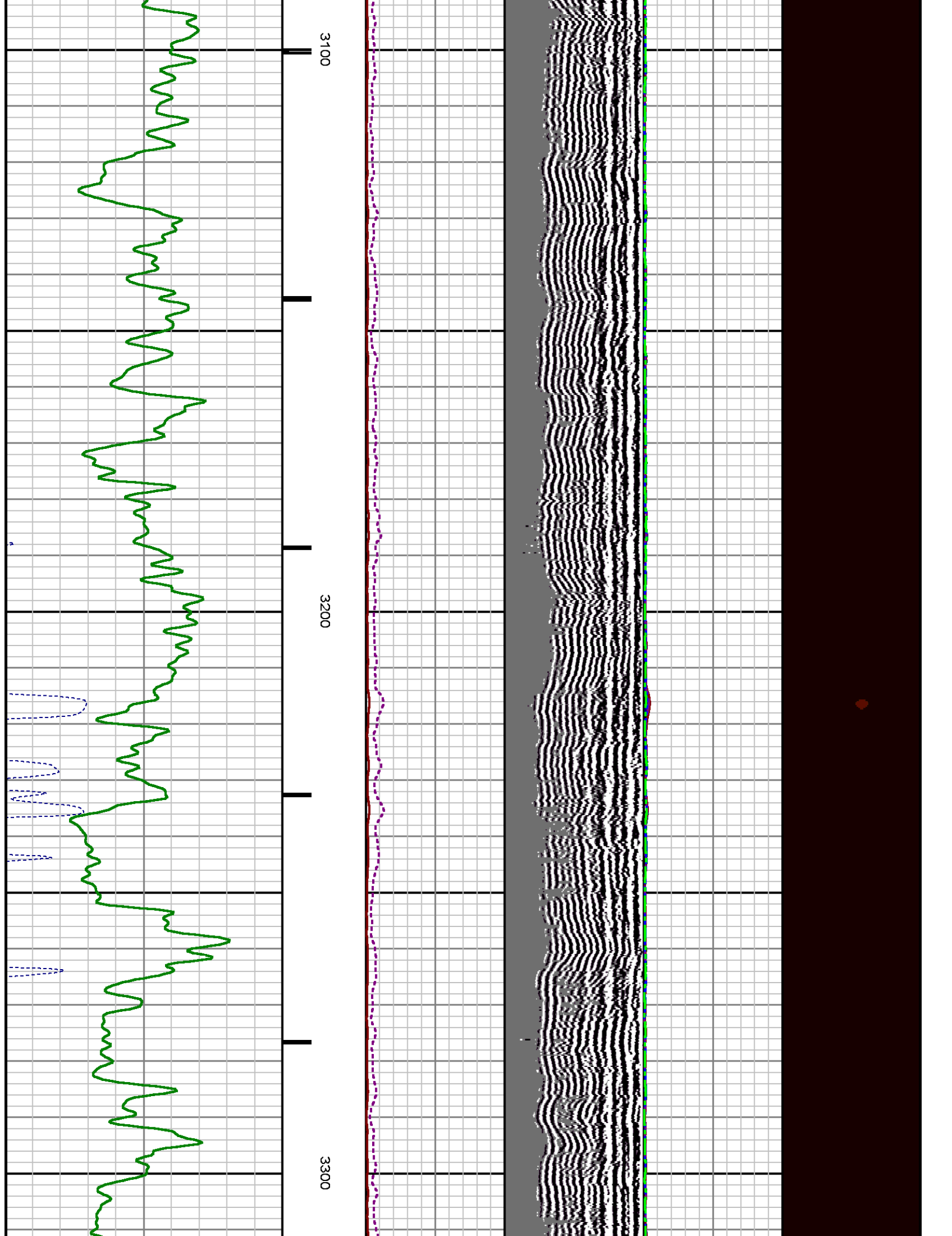
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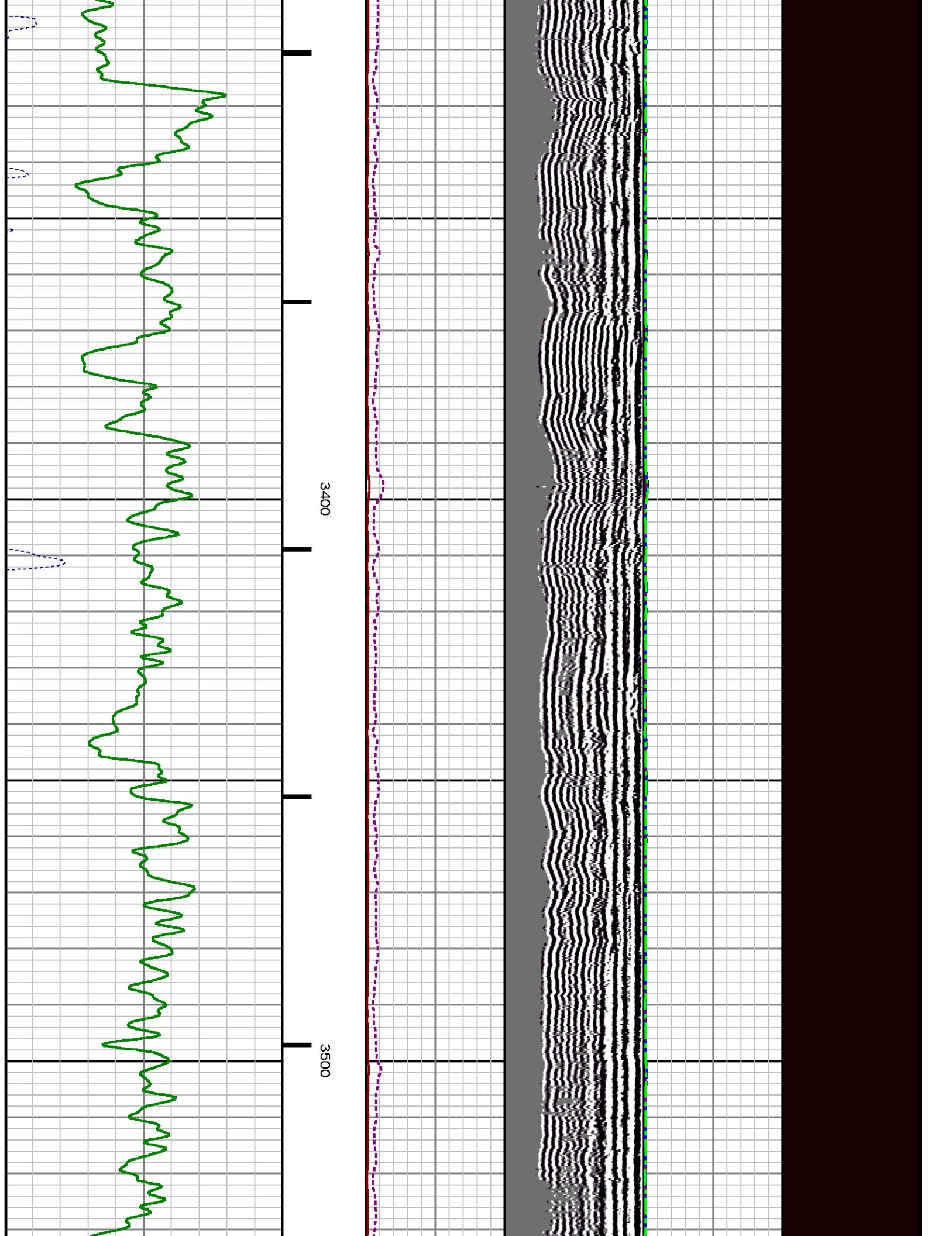
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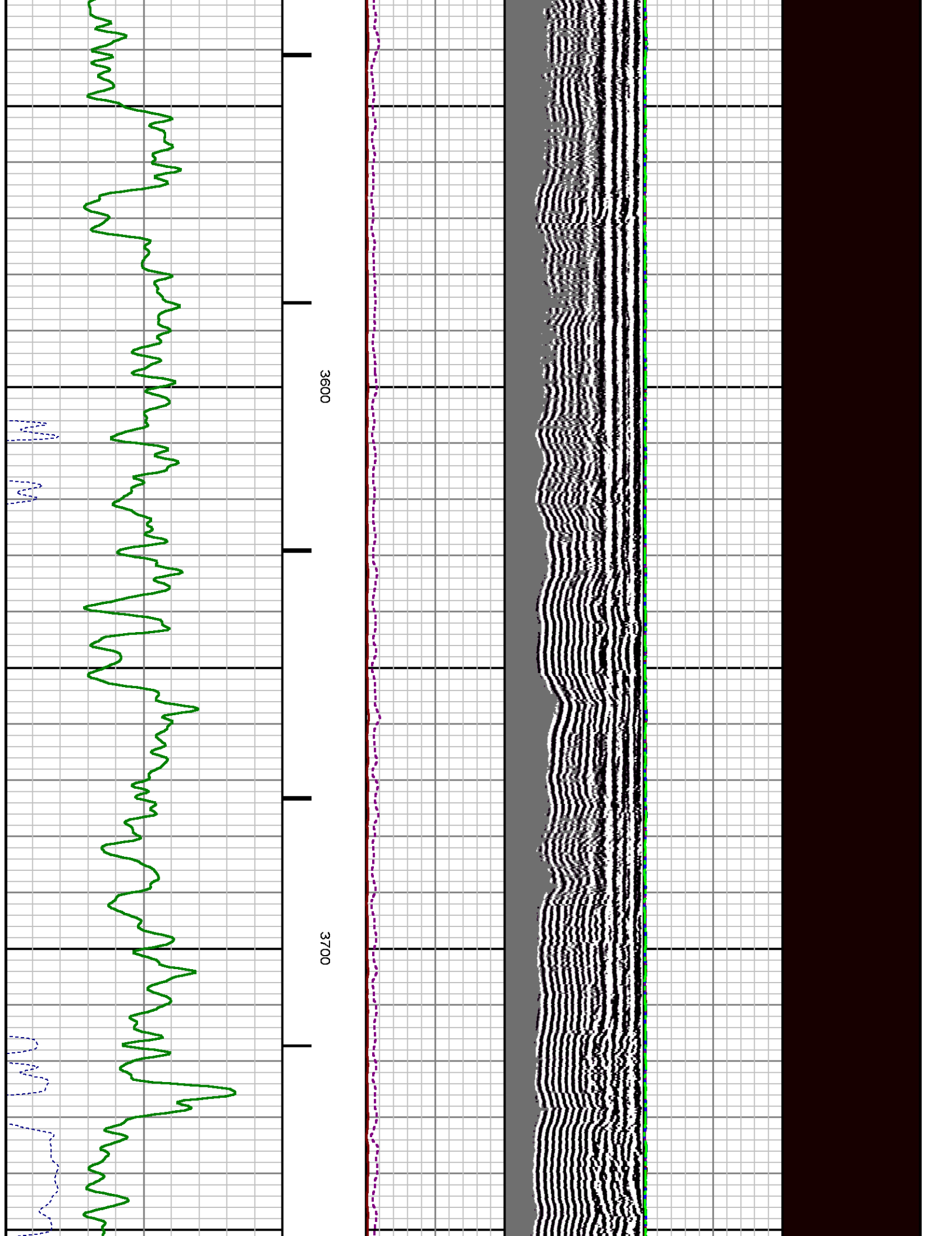


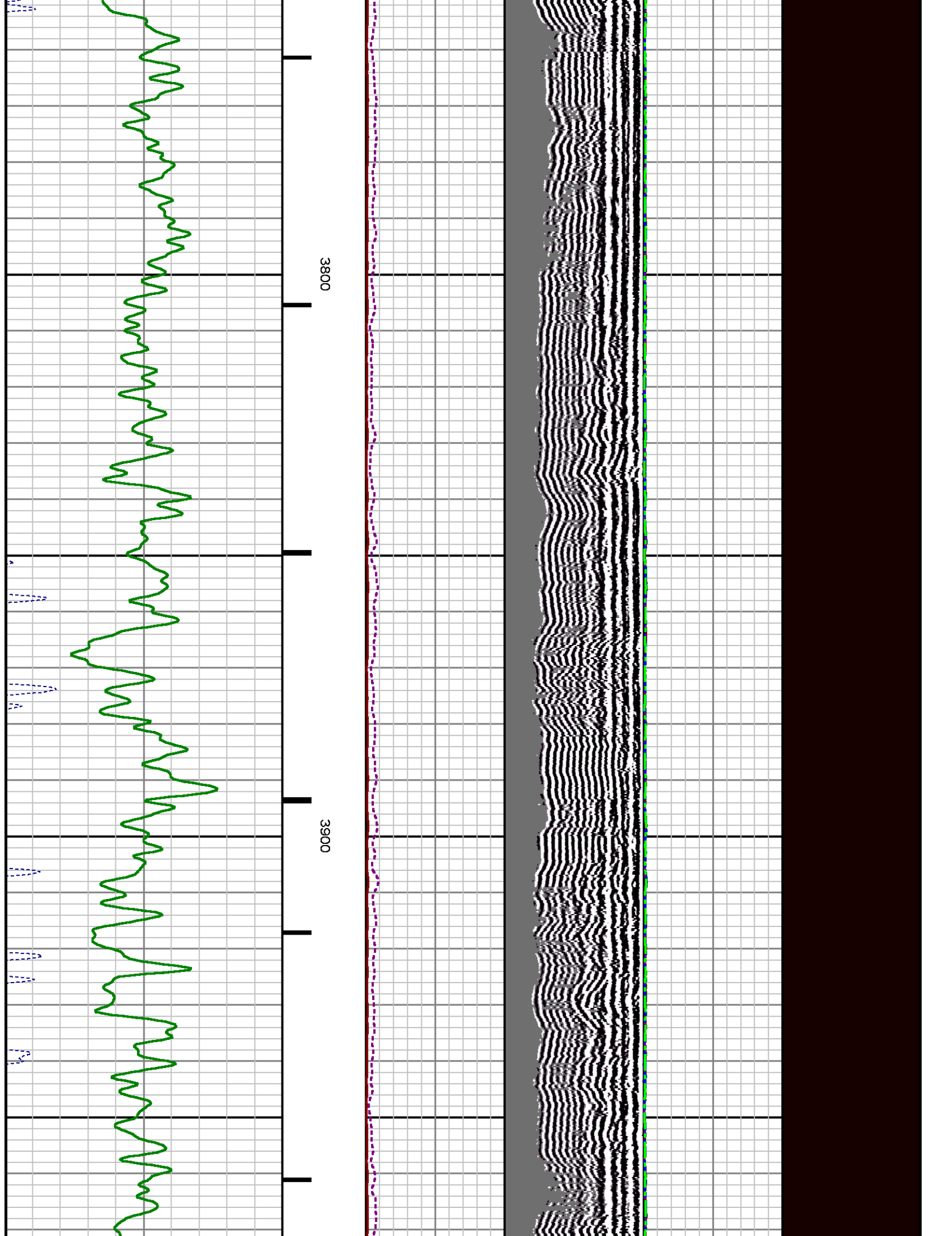


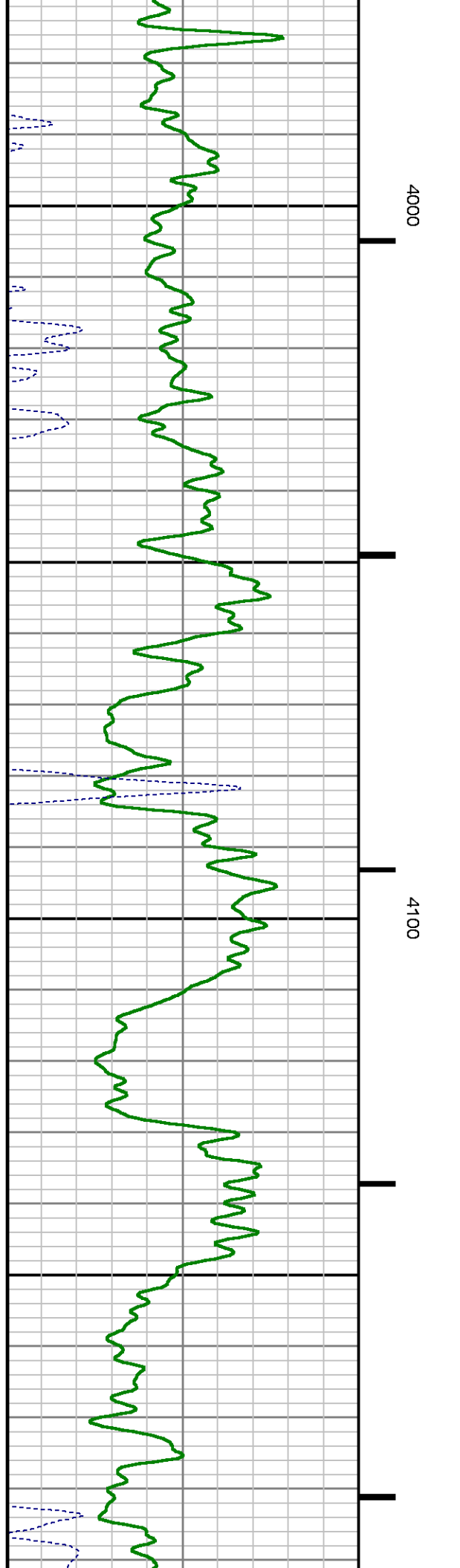
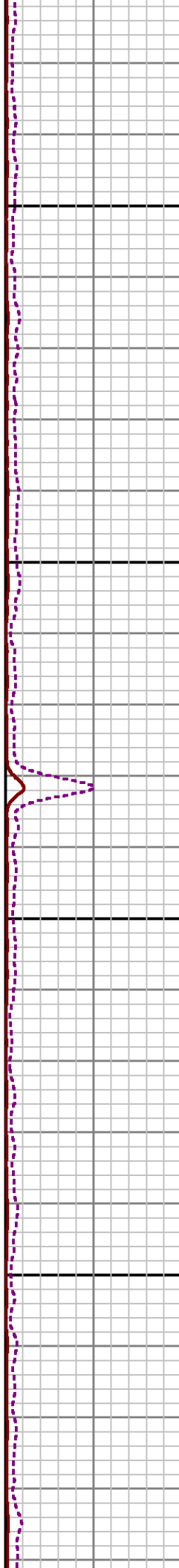
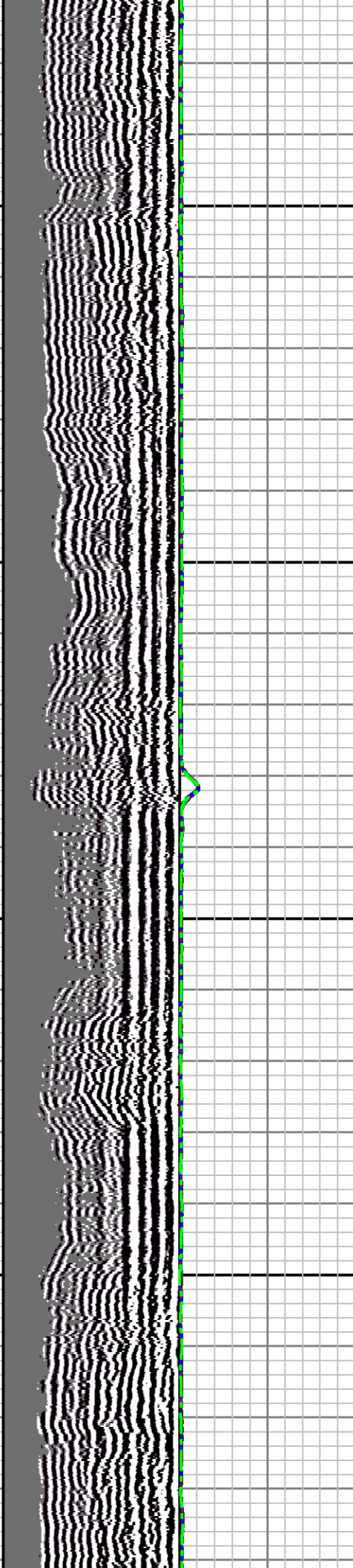


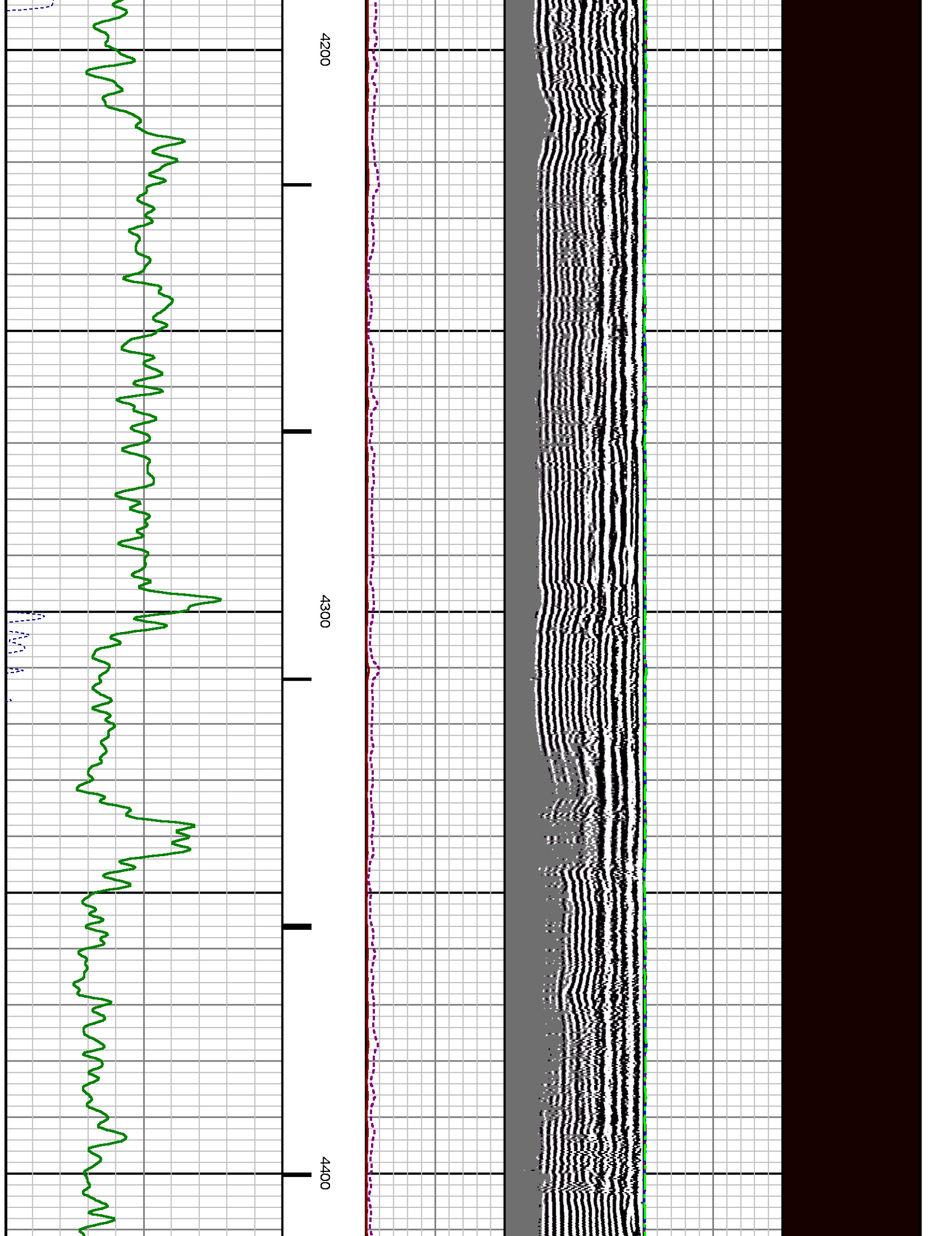


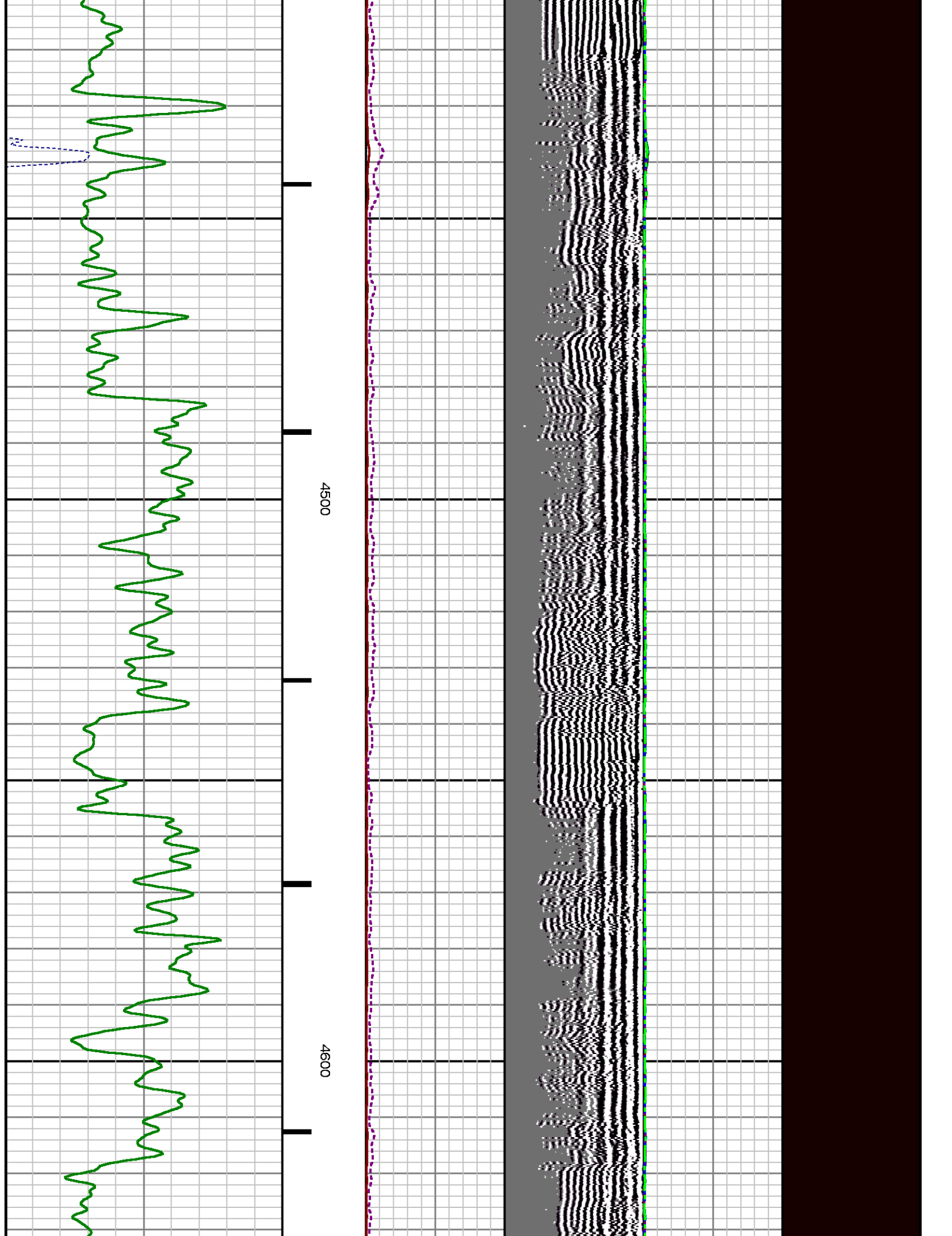


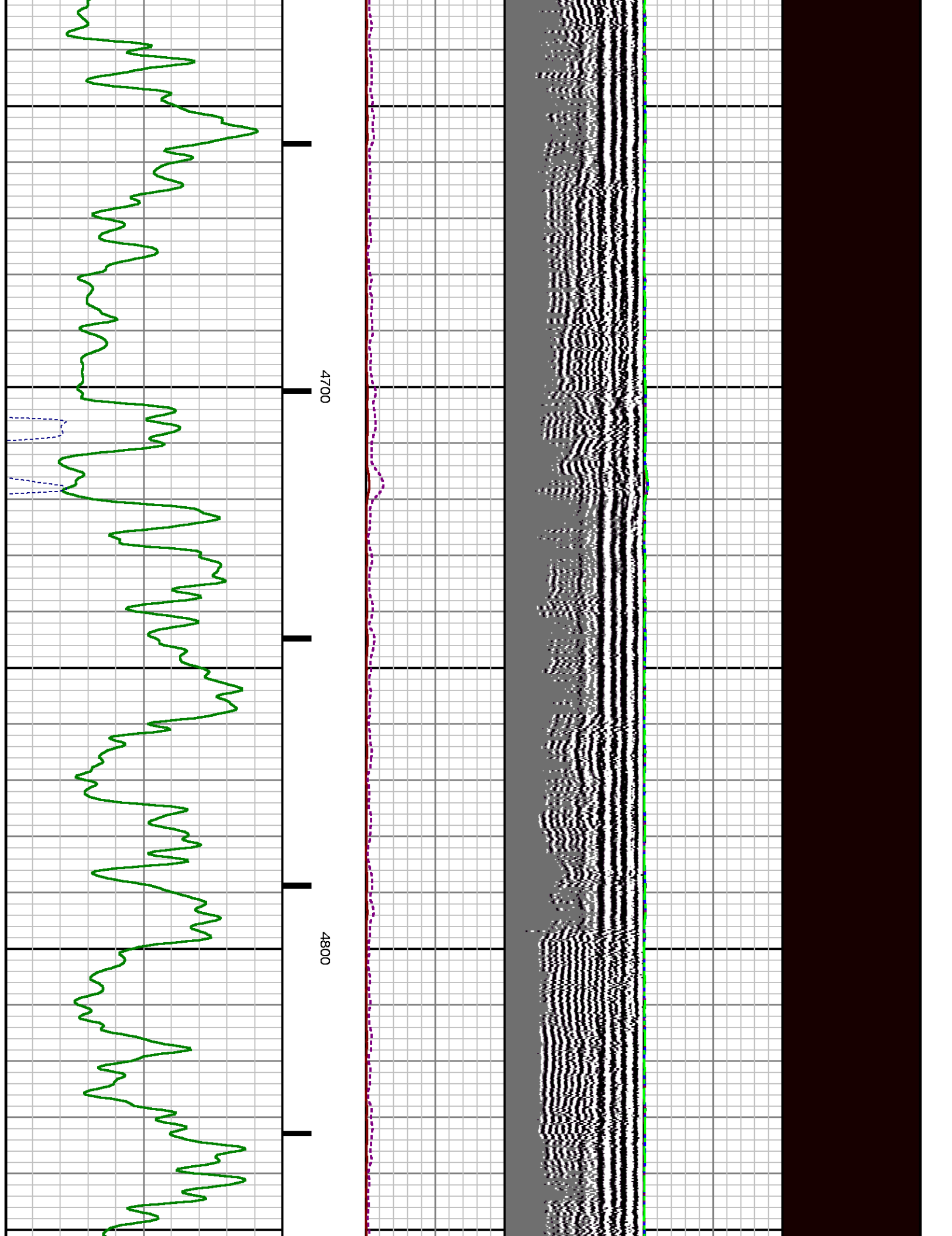


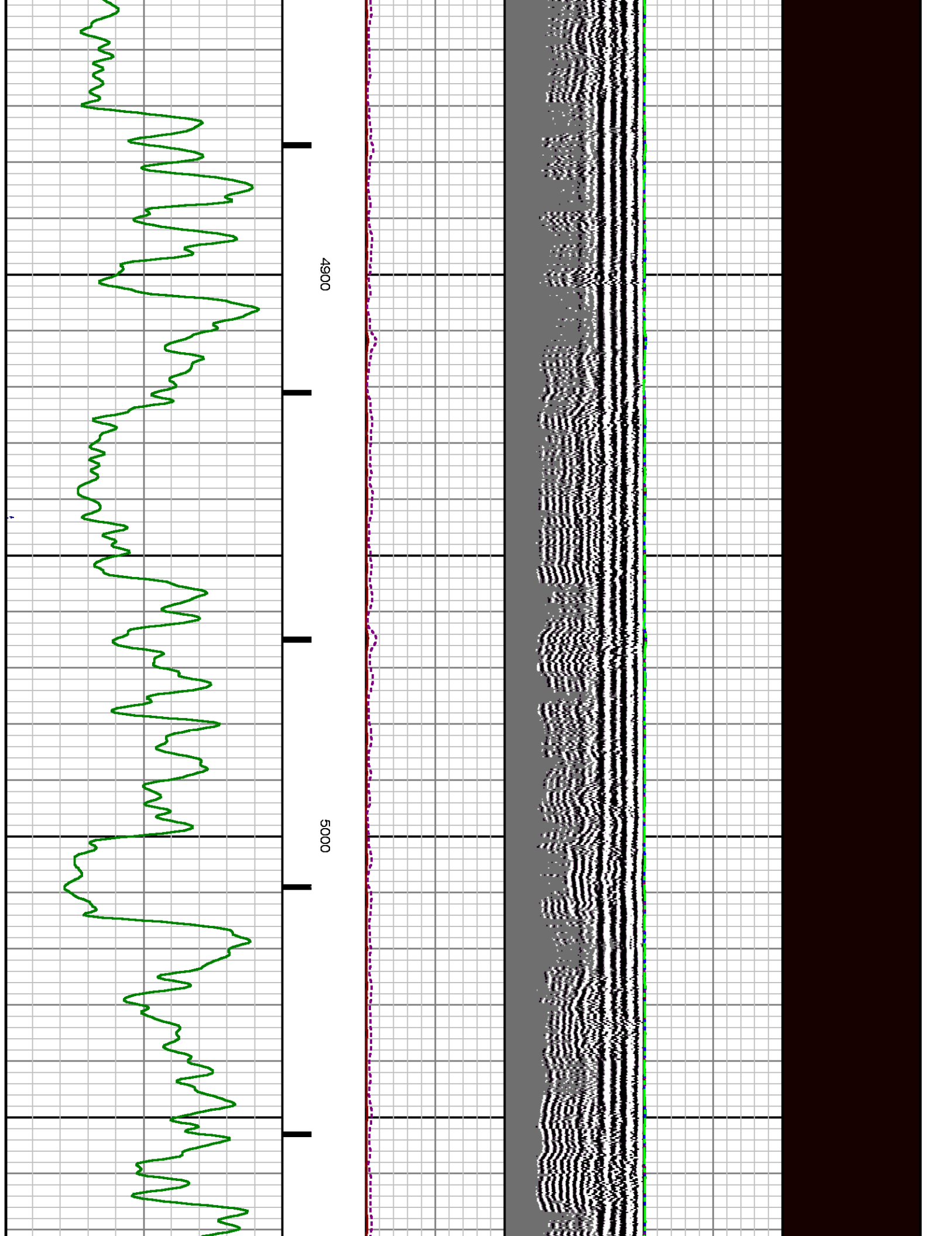


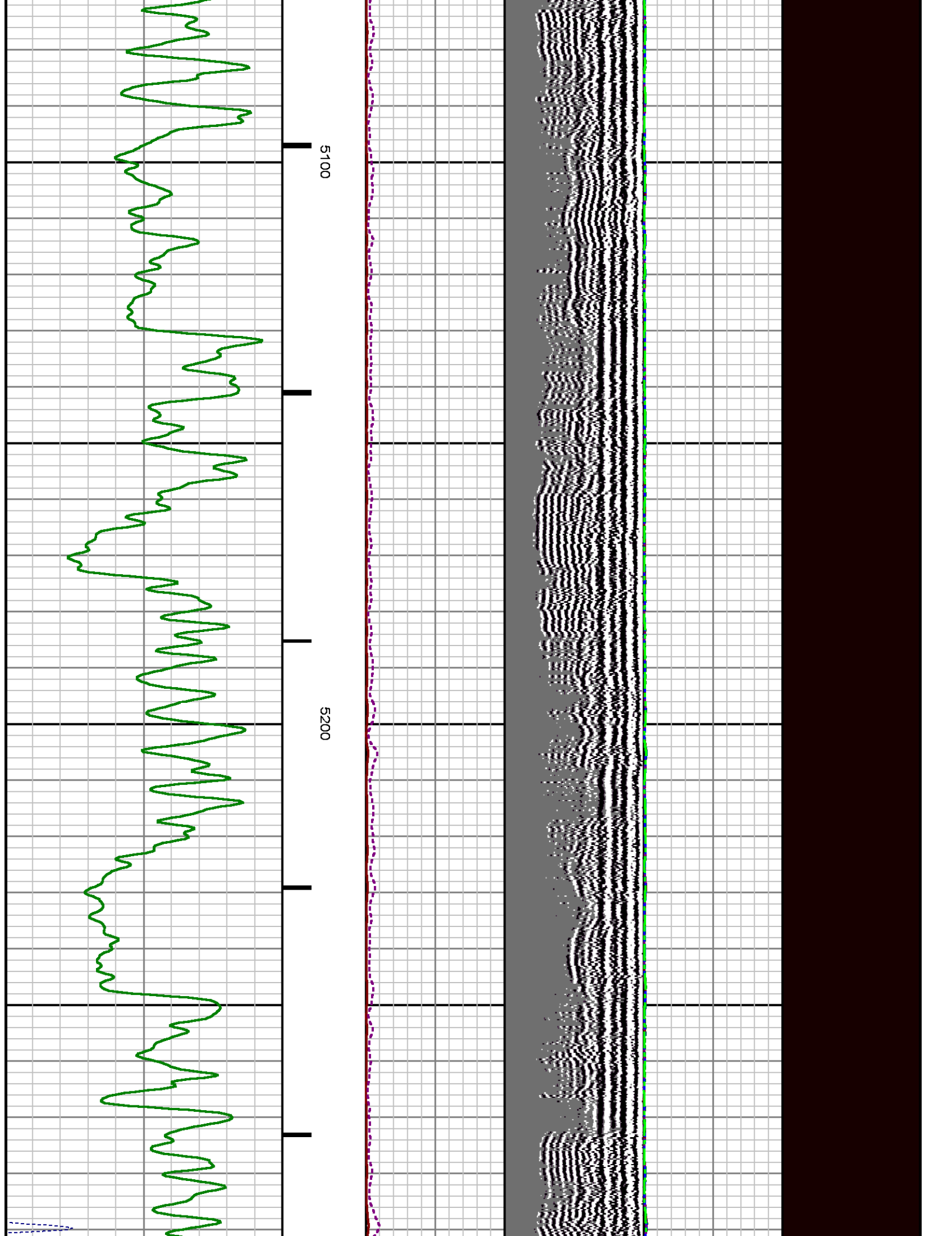


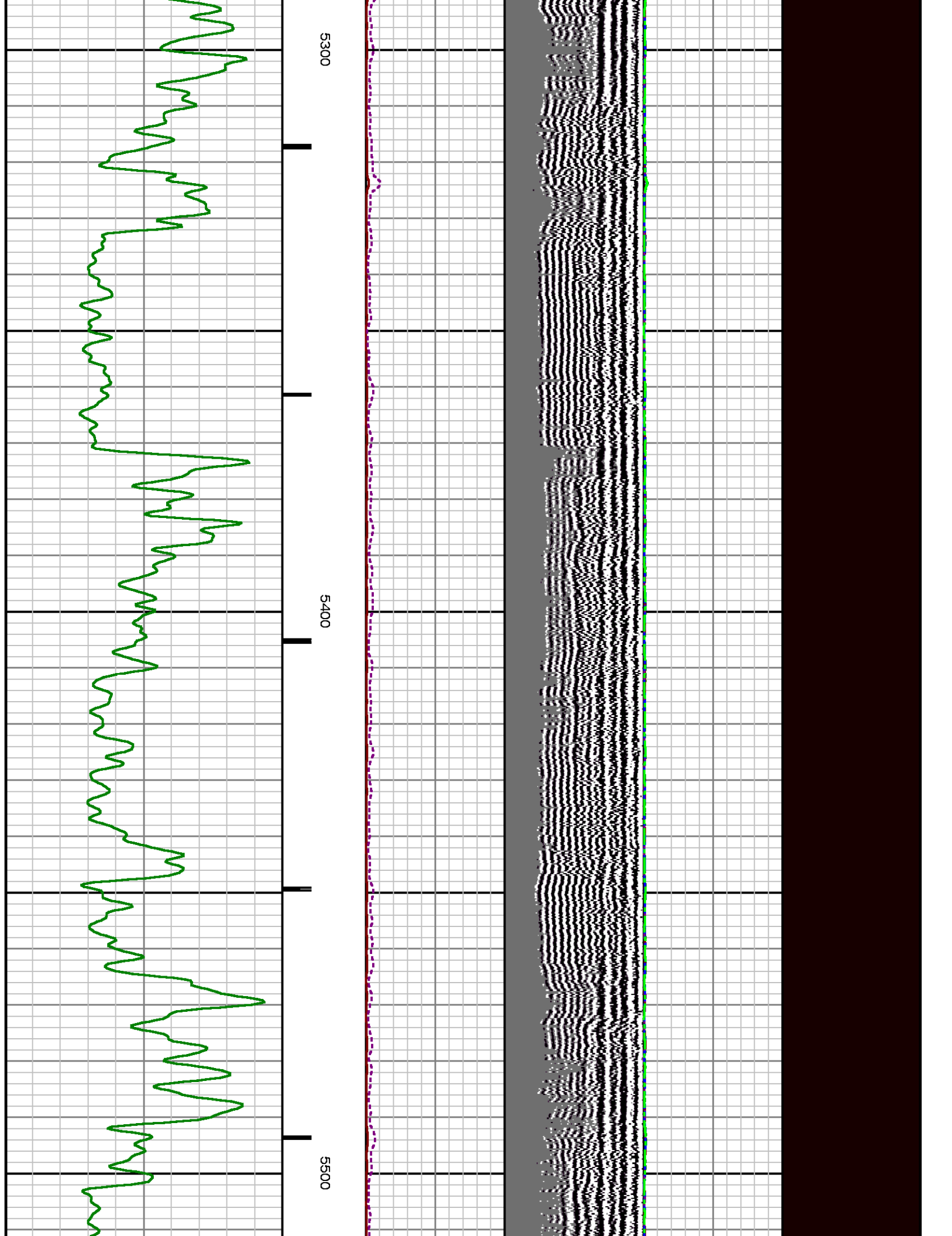


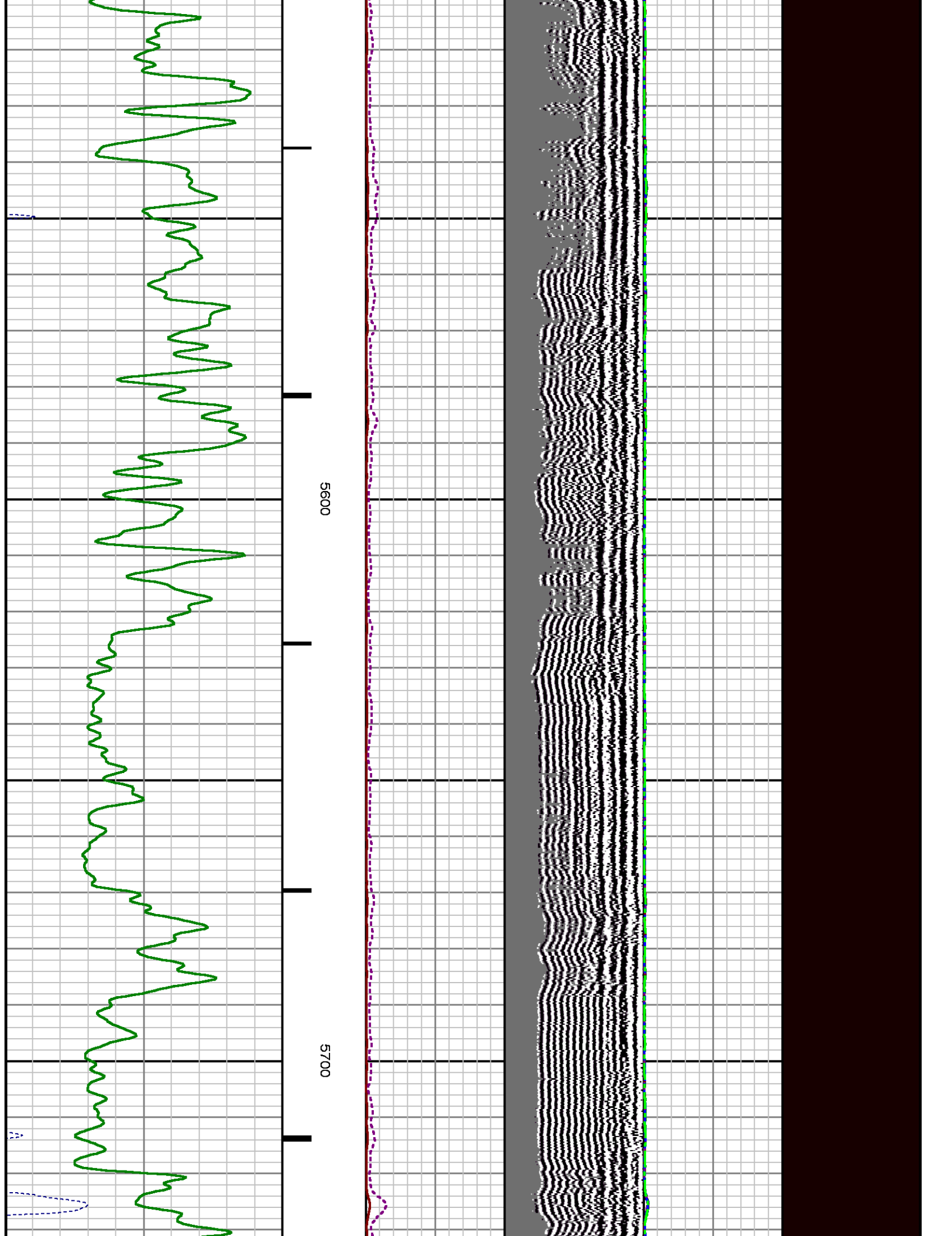


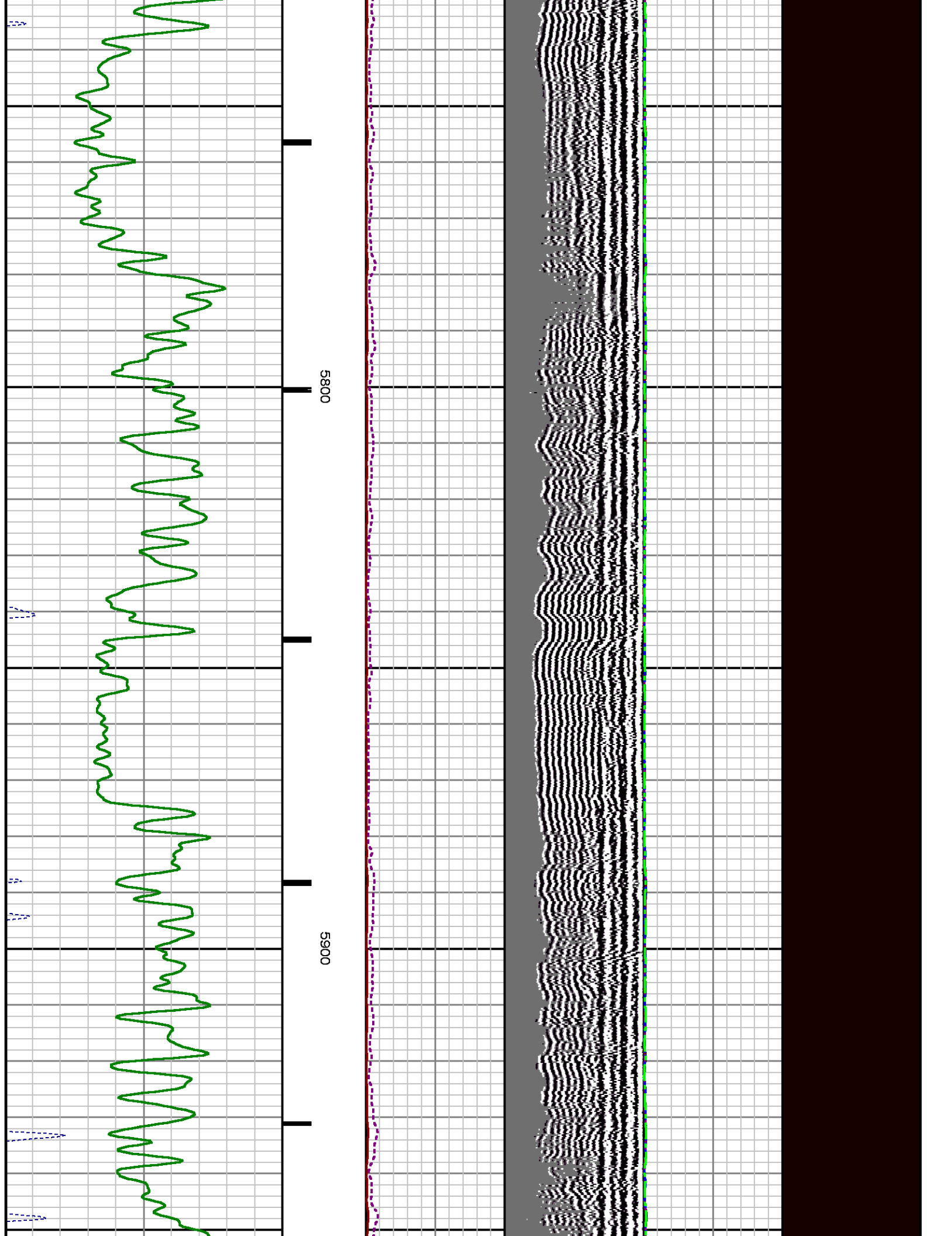


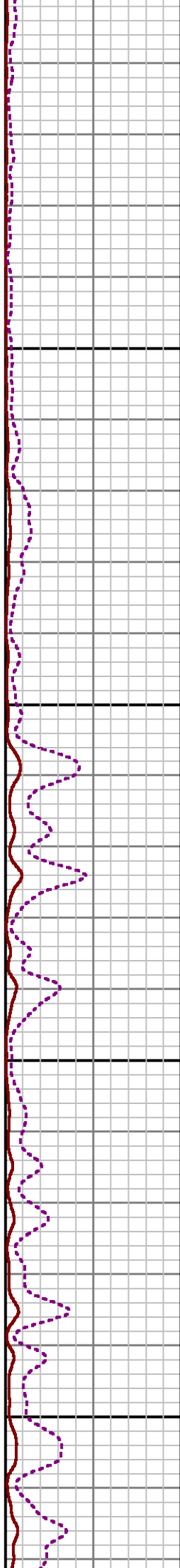
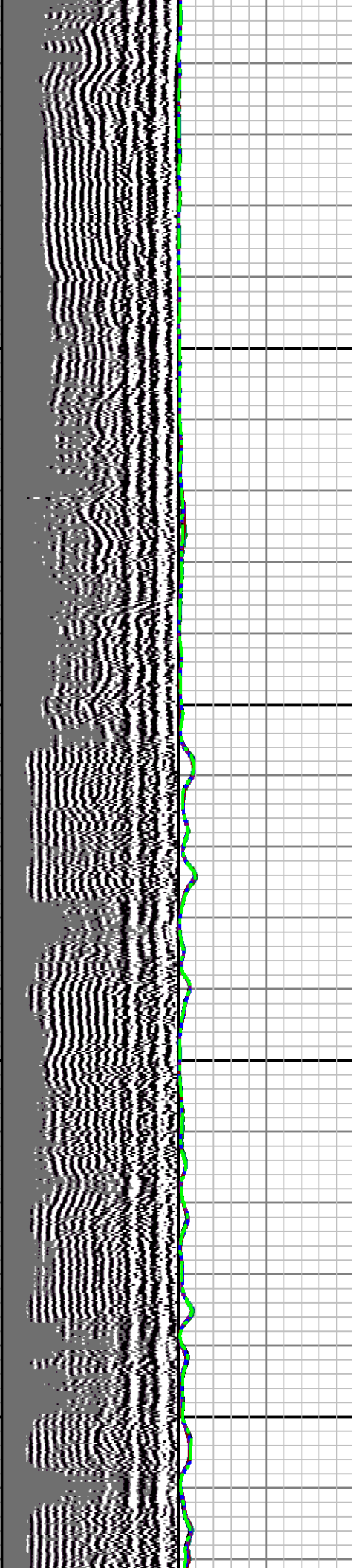






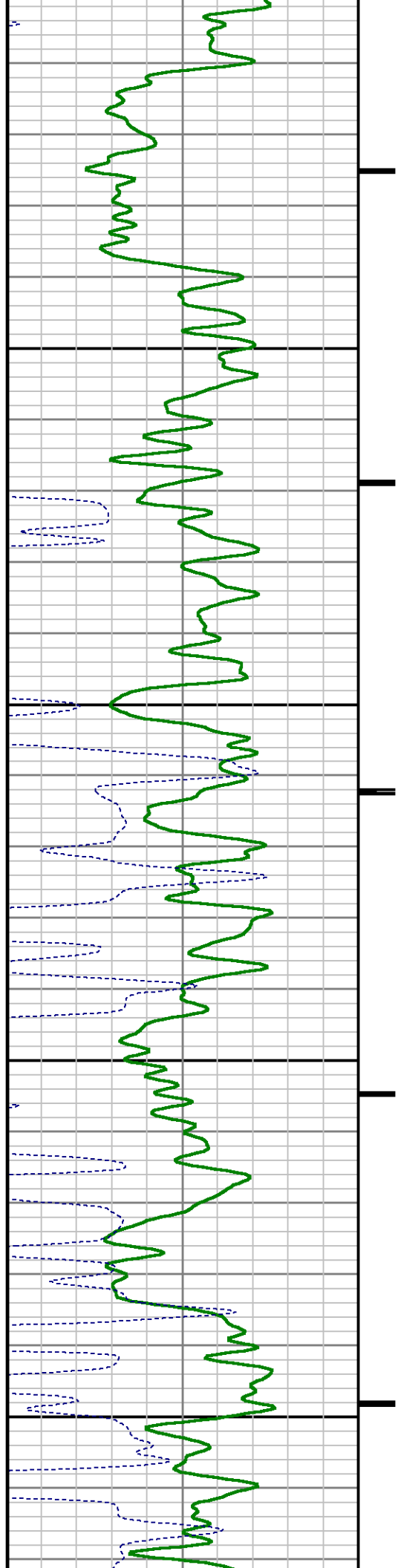


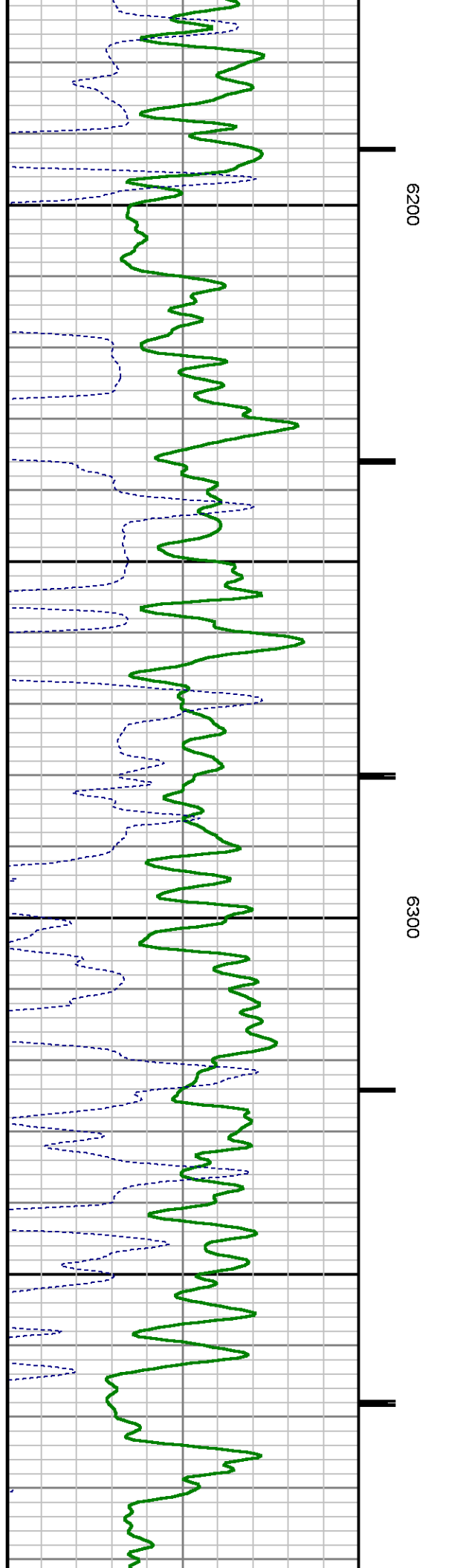
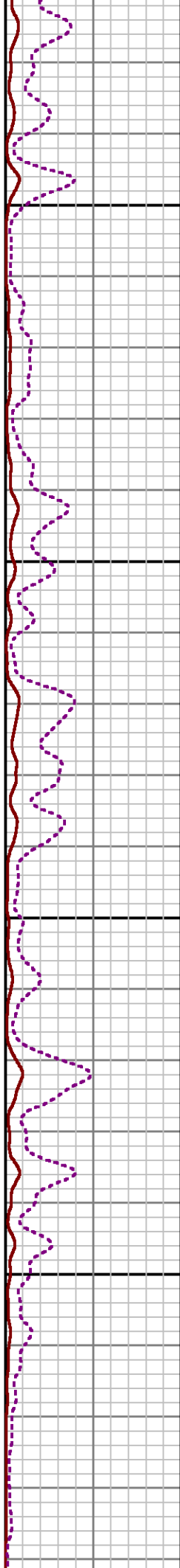
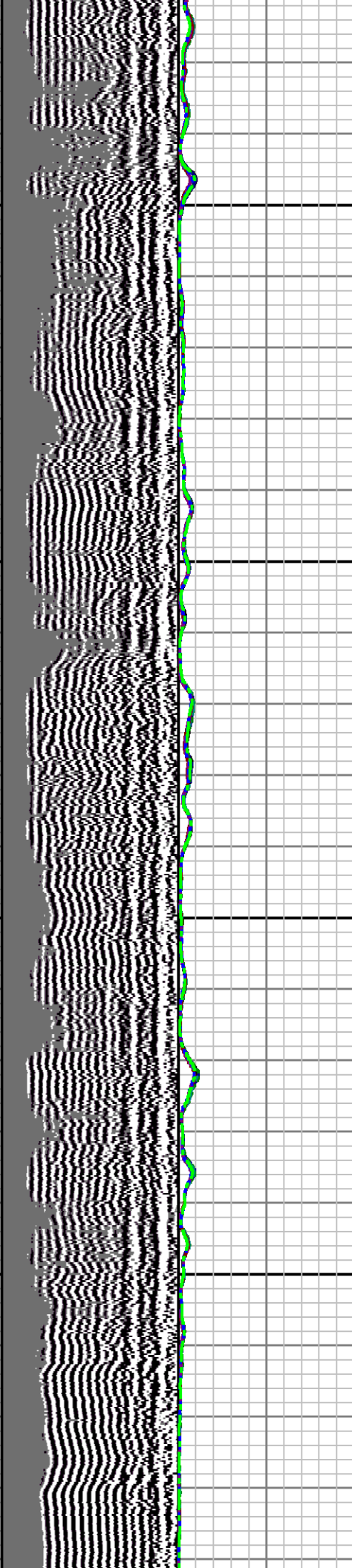
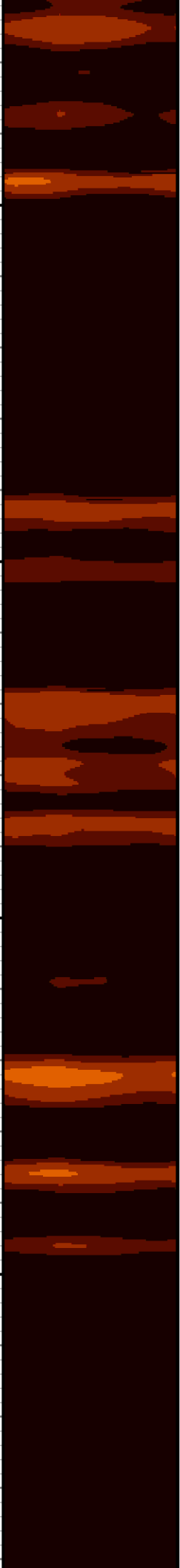


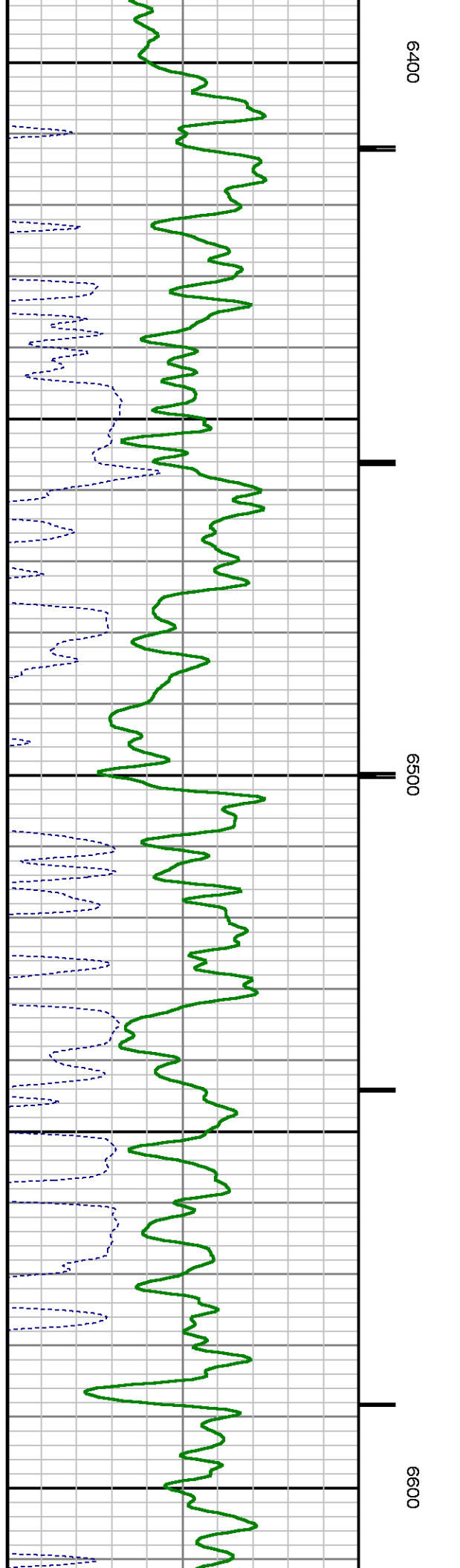
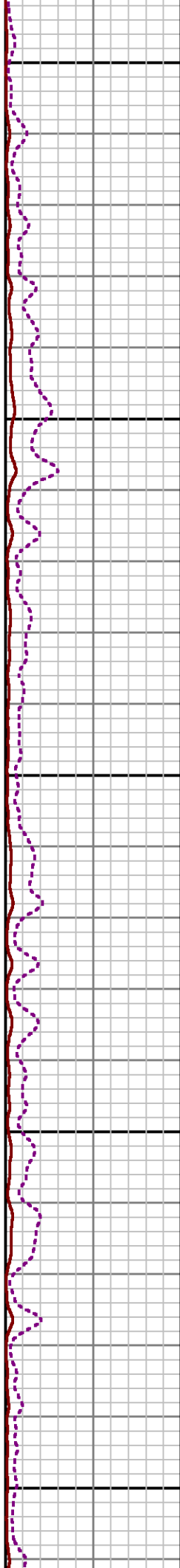
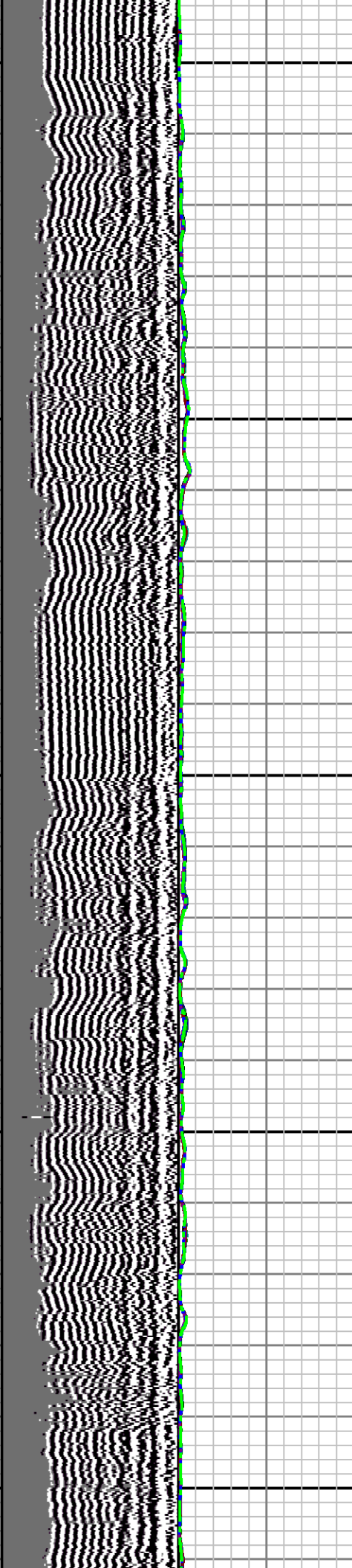


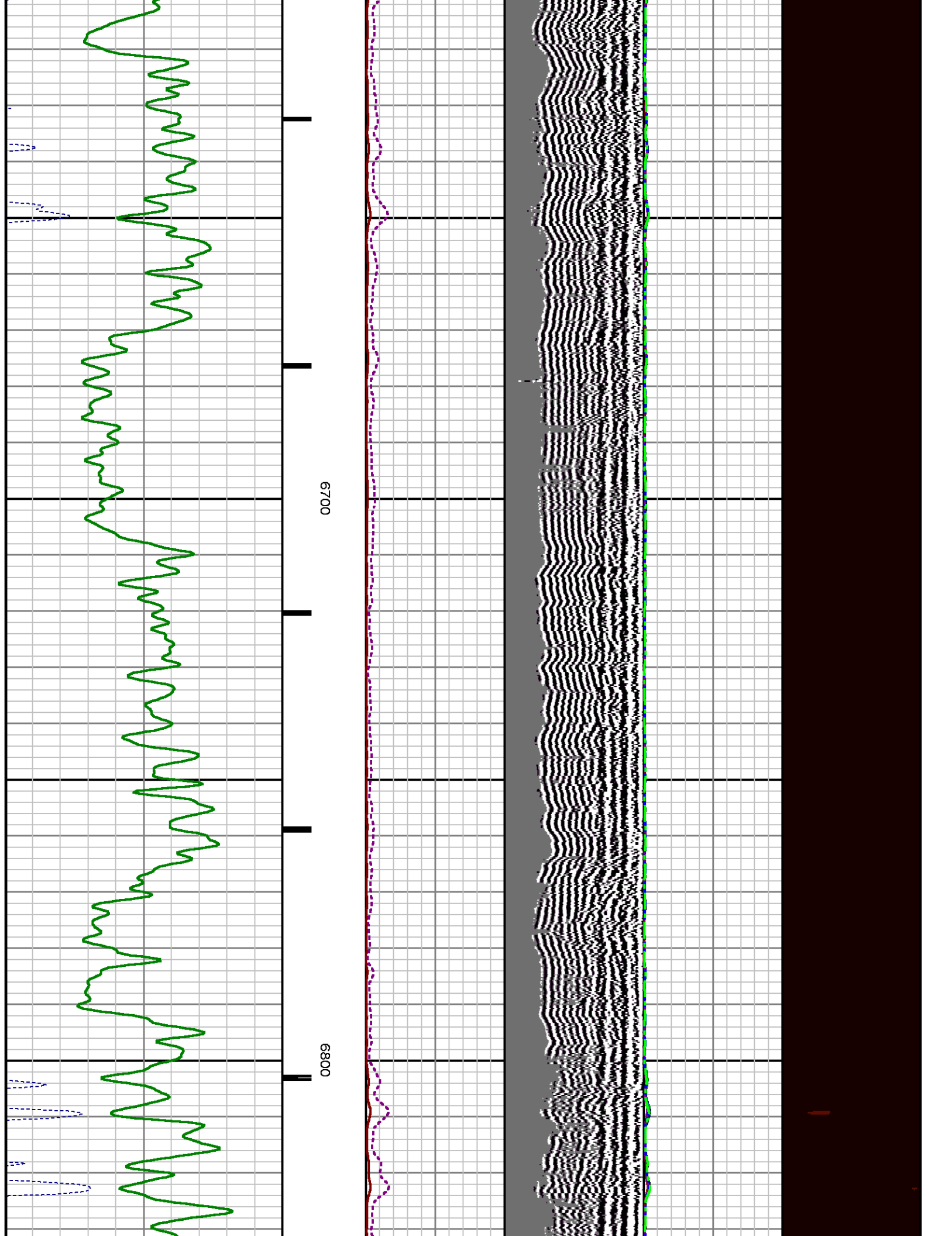
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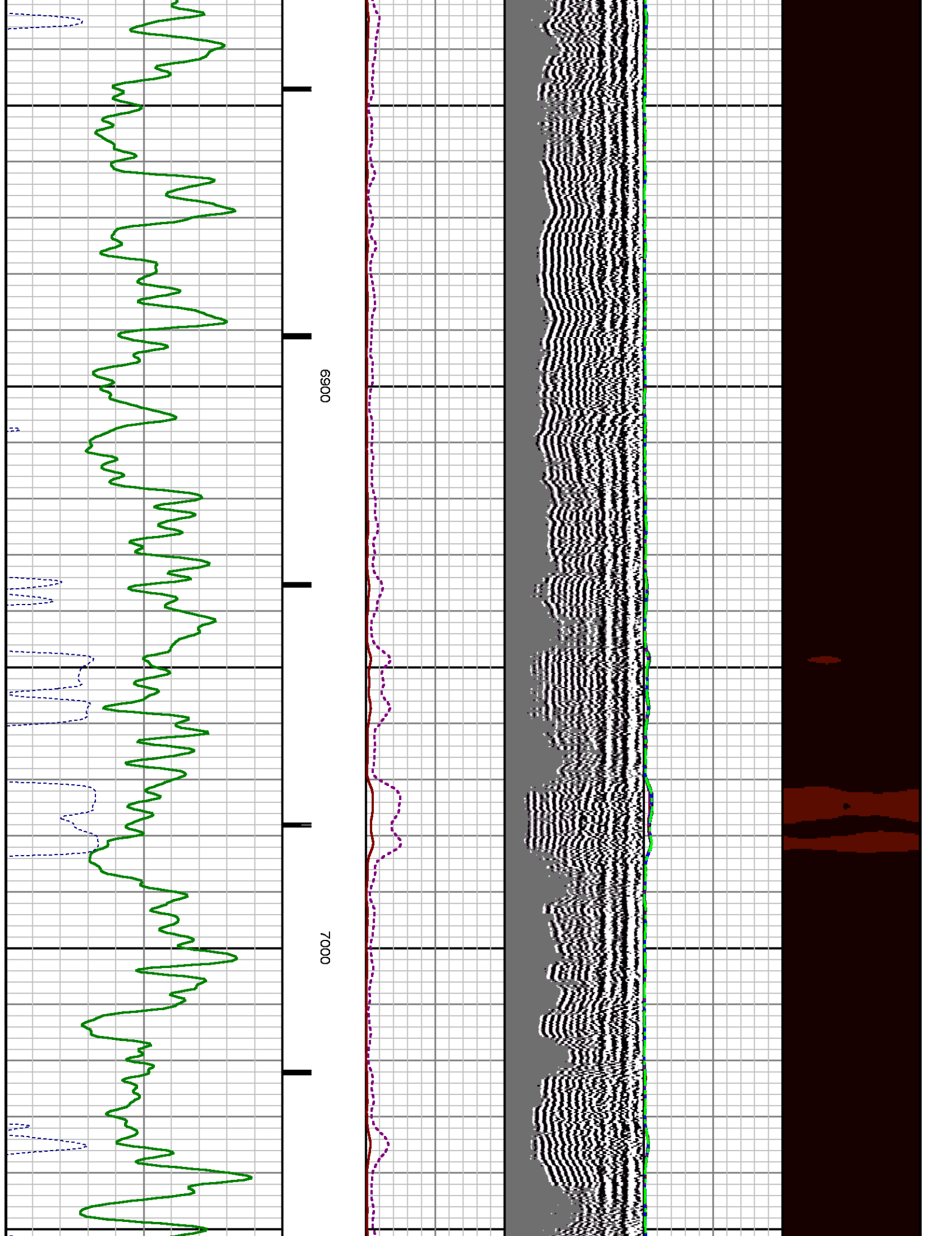
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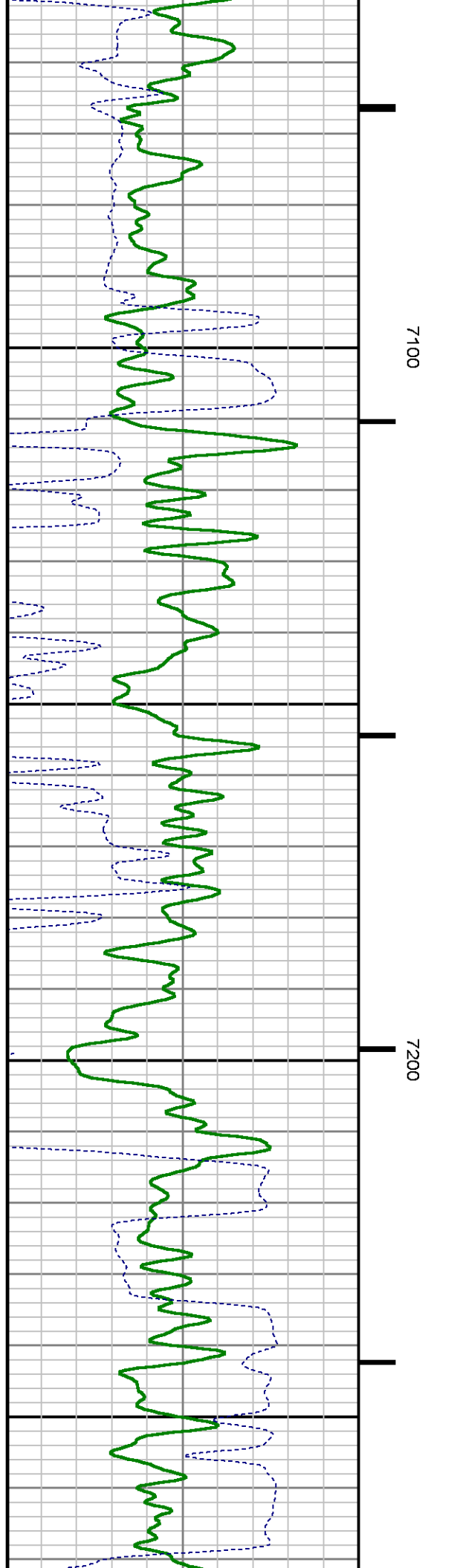
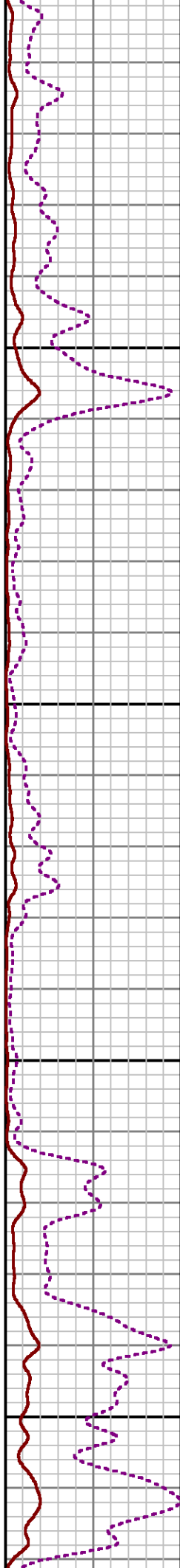
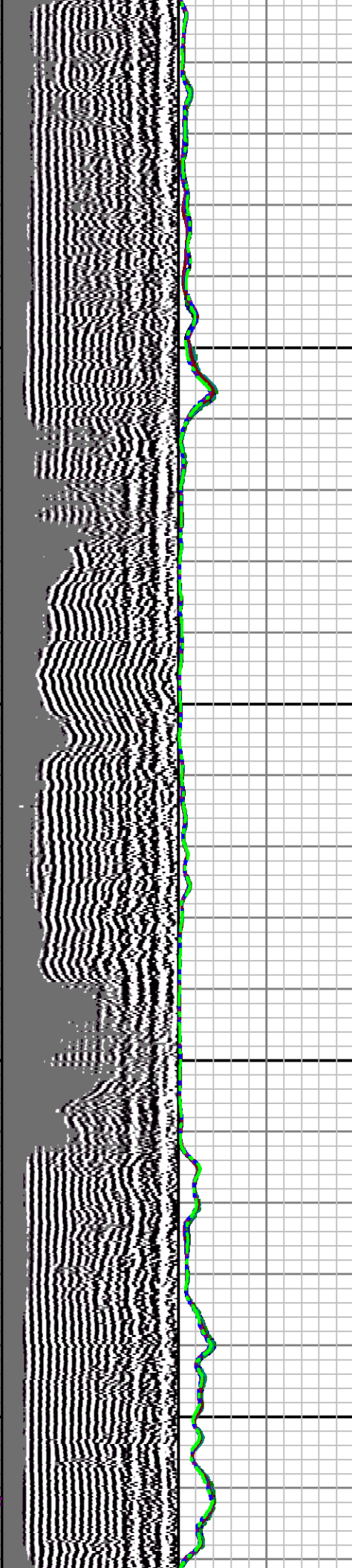


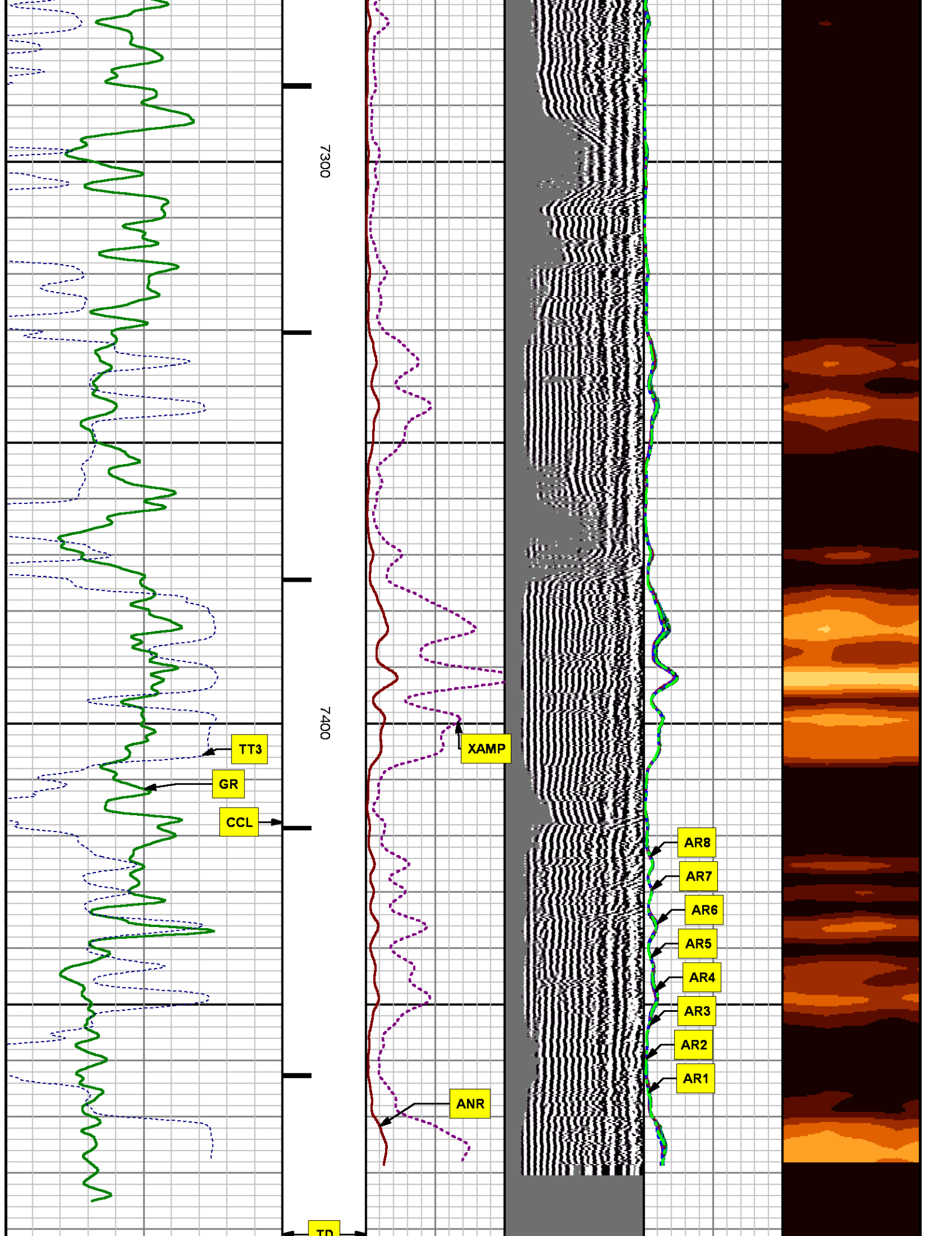


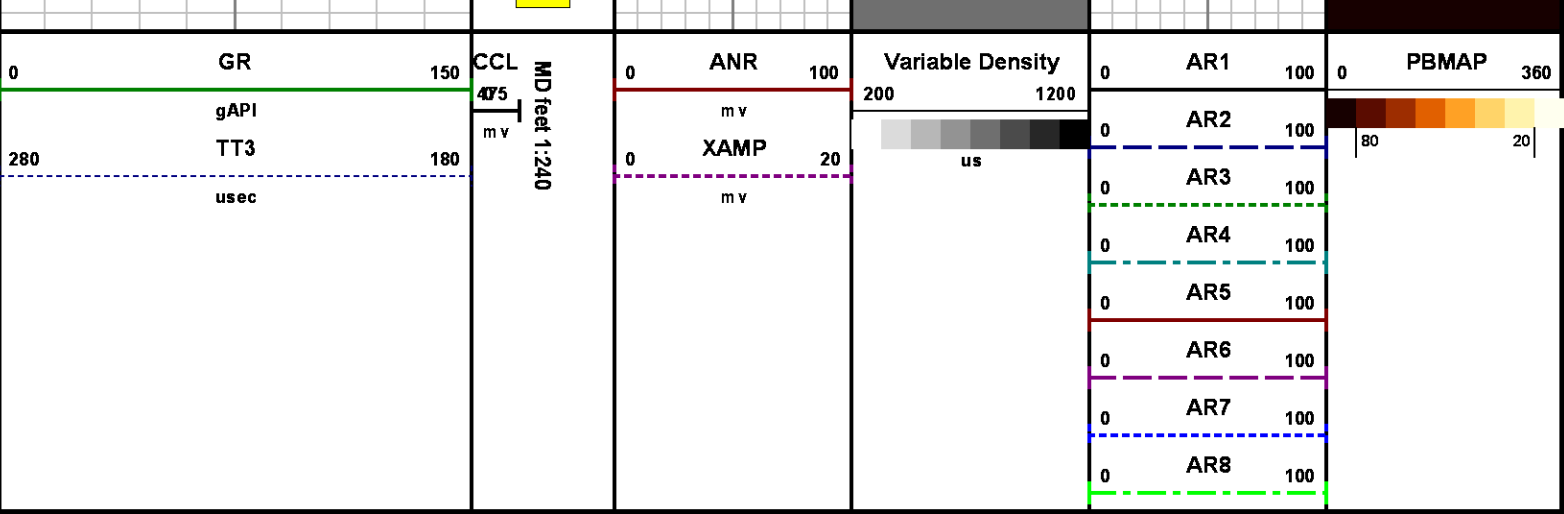












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7157.750	7495.000
RAL	Amp Gate Start Near	195.000	usec	7157.750	7495.000
RAL	Amp Gate Start Radial	195.000	usec	7157.750	7495.000
RAL	Amp Gate Width Far	25.000	usec	7157.750	7495.000
RAL	Amp Gate Width Near	25.000	usec	7157.750	7495.000
RAL	Amp Gate Width Radial	25.000	usec	7157.750	7495.000
RAL	casing od	4.500	inches	7157.750	7495.000
RAL	casing wt	11.600	lbm/ft	7157.750	7495.000
RAL	FB Start Far	291.900	usec	7157.750	7495.000
RAL	FB Start Near	180.000	usec	7157.750	7495.000
RAL	FB Start Radial	180.000	usec	7157.750	7495.000
RAL	FB Thresh Far	15.000	mv	7157.750	7495.000
RAL	FB Thresh Near	10.000	mv	7157.750	7495.000
RAL	FB Thresh Radial	10.000	mv	7157.750	7495.000
RAL	Fluid Travel Time	200.000	usec/ft	7157.750	7495.000

DEPTH OFFSETS
(for Acquired Curves)

(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

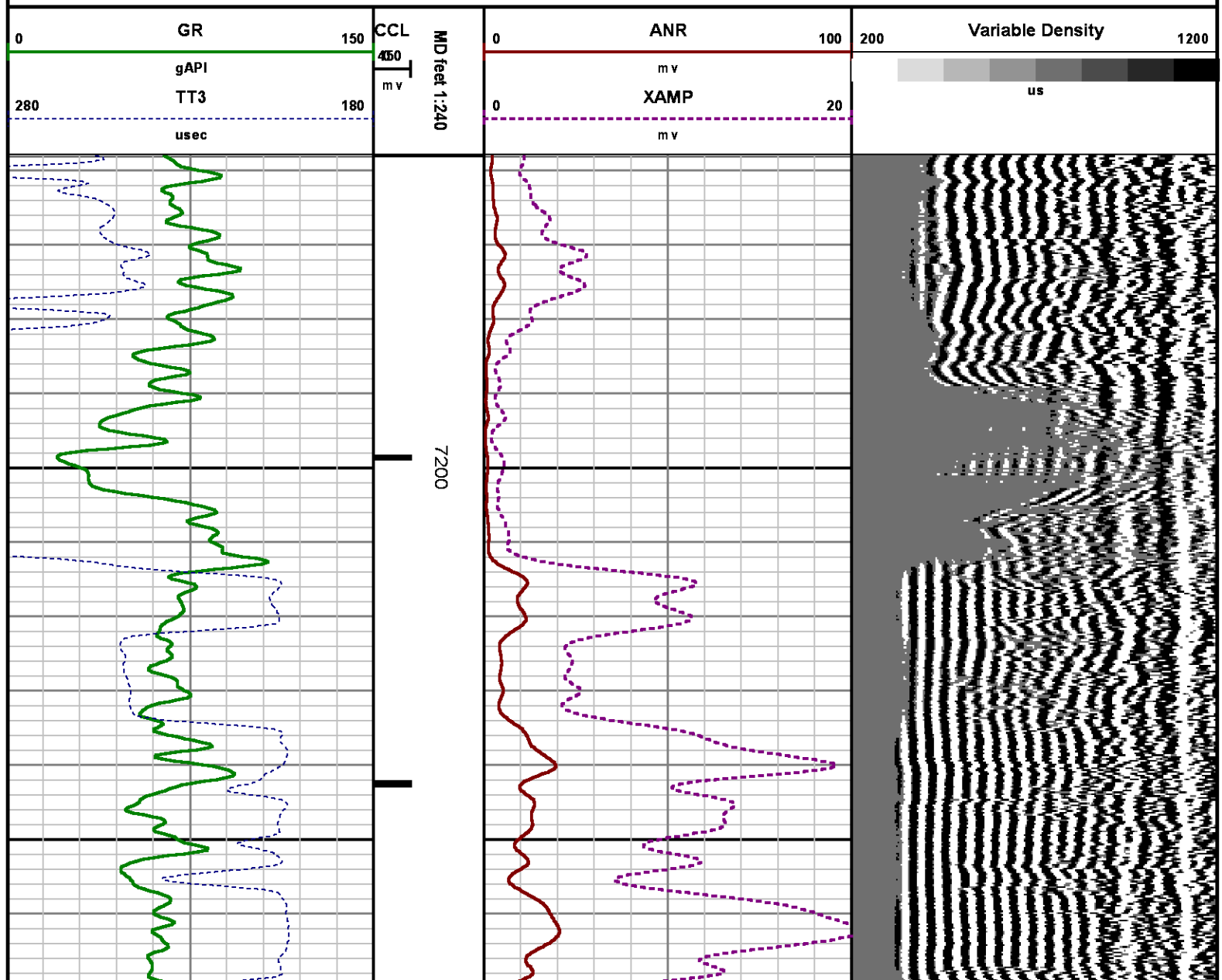
Well : WPX ENERGY PA 14-2

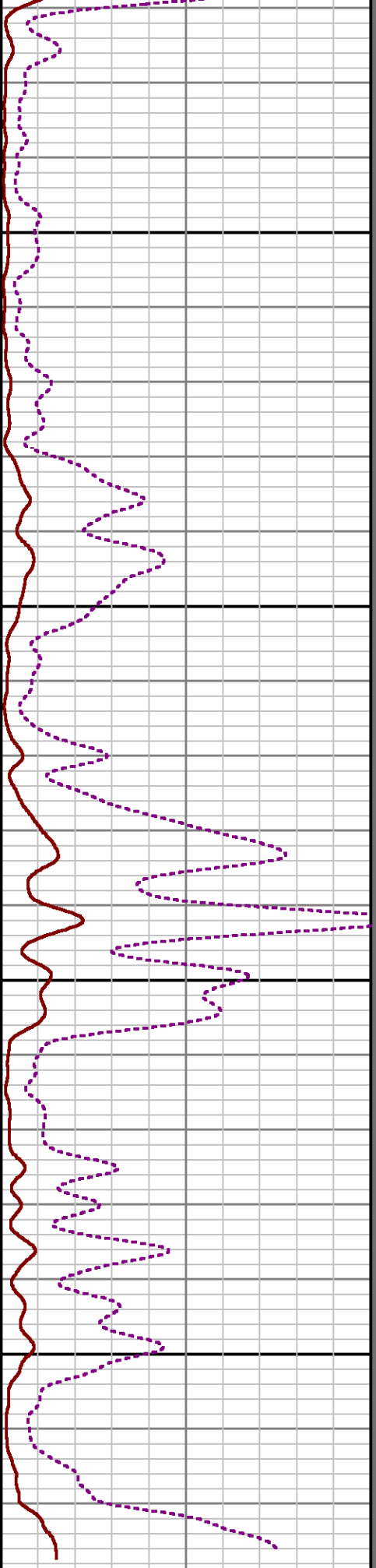
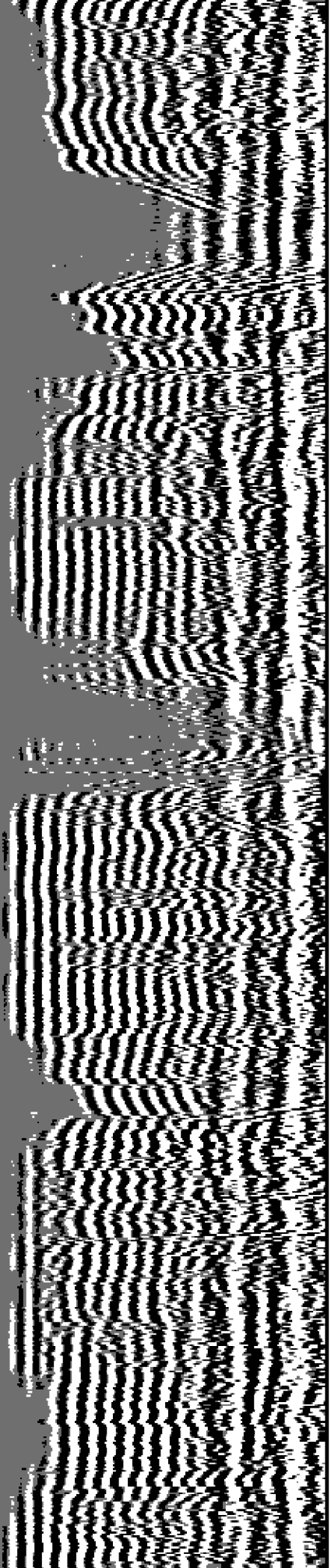
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Mode : PlotMgr 5.4.504

Interval : 7158.00 - 7495.00 feet UP

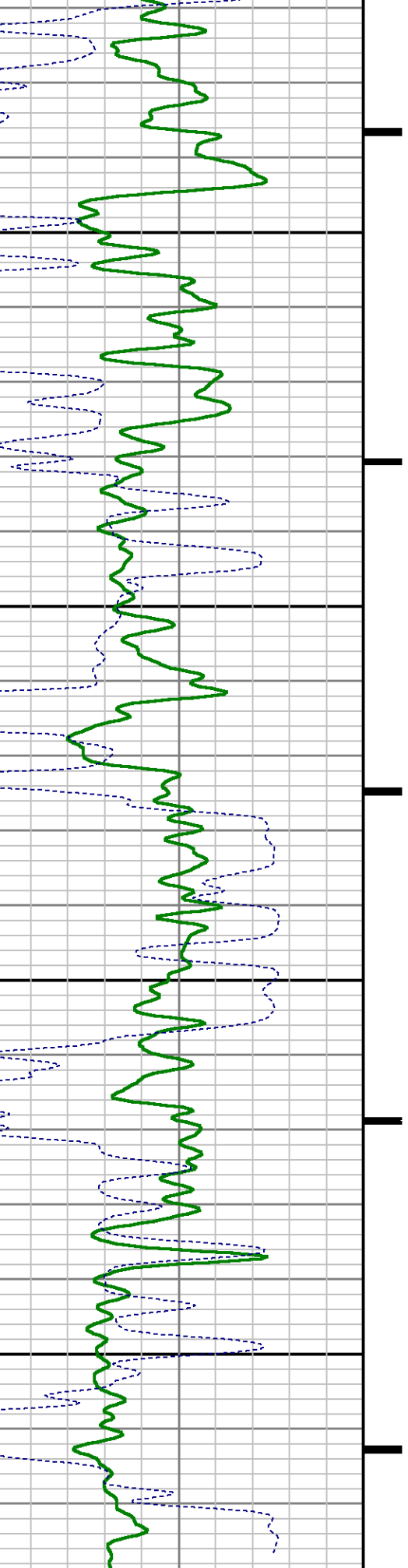
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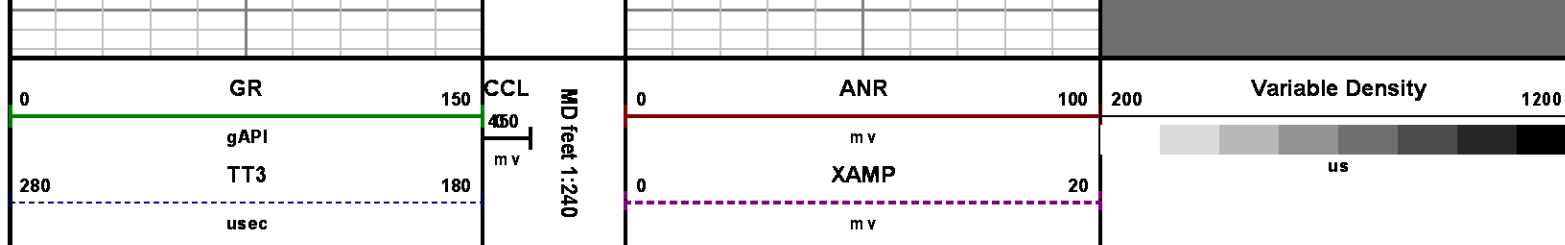




7300

7400





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A6_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Apr 06 11:23:23 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: A6

Tool Delay [usec] -55.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	0.013	100.00	0.16
3 Ft. Receiver	218	216	30	166	25	-0.231	100.00	0.15
5 Ft. Receiver	326	325	30	202	25	0.136	150.00	0.17
Radial #1	218	216	30	166	25	-0.375	100.00	0.15
Radial #2	218	216	30	166	25	-0.183	100.00	0.15
Radial #3	218	216	30	166	25	-0.406	100.00	0.15
Radial #4	218	216	30	166	25	-0.672	100.00	0.15
Radial #5	218	216	30	166	25	0.156	100.00	0.15
Radial #6	218	216	30	166	25	-0.115	100.00	0.15
Radial #7	218	216	30	166	25	-0.449	100.00	0.15
Radial #8	218	216	30	166	25	-0.638	100.00	0.15

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A6 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Apr 06 11:25:29 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: A6

Tool Delay [usec] -55.00 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	-0.082	0.000	1.24	100.000
3 Ft. Receiver	195	25	-0.211			
5 Ft. Receiver	305	25	0.578			
Radial #1	195	25	-0.830			
Radial #2	195	25	-0.329			
Radial #3	195	25	0.021			
Radial #4	195	25	-0.173			
Radial #5	195	25	-0.009			
Radial #6	195	25	-0.022			
Radial #7	195	25	0.196			
Radial #8	195	25	-0.057			

GAMMA RAY

Calibration File: C:\case\calver\GR\456A3.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 03 13:37:28 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	76.84	356.71	0.661	50.80	235.80	185.00

Verification File: C:\case\calver\GR\456A3.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Apr 03 13:38:35 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	80.98	351.78	0.661	53.53	232.54	179.01

TOOL DIAGRAM

OTA SHORT CABLE HEAD



21.81'

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

XMIT	15.62'
NEAR RCVR	12.54'
FAR RCVR	10.62'
CCL	8.92'
GR	7.06'
NEU	1.67'
	0.00'

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

**Baker Atlas***CASE***Company**

WPX ENERGY

Well

WPX ENERGY PA 14-2

Field

PARACHUTE

County

GARFIELD

State

COLORADO

Location:

SHL: 2021' FSL & 1564' FWL

BHL: 1218' FSL & 652' FWL

SEC: 2

TWP: 7S

RGE: 95W

Elevations

KB 5846 ft

DF

GL 5821 ft

File No:

CH084521

API No:

05045221370000

2 7S 95W

GV 86-2 PAD

AZTEC 1000