



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH089916 C&C ENERGY GM 344-12

API No: GRAND VALLEY

0504524290000 GARFIELD State COLORADO

Location

SHL: 270' FSL & 1046' FWL

BHT: 807' FSL & 1272' FEL (SESE)

SEC 12 TWP 7S RGE 96W

Other Services

RPM

12 7S 96W
GM 24-12 PAD
H&P 318

Permanent Datum GL Elevation 5141 ft

Log Measured From KB 24 ft Above P. D.

Drill Measured From KELLY BUSHING

Elevations

KB 5165 ft

DF

GL 5141 ft

Date 06/SEP/14

Run ONE

Service Order US089915J

Depth Driller 7334 ft

Depth Logger 7300 ft

Bottom Logged Interval 7280 ft

Top Logged Interval 24 ft

Time Started 0845

Time Finished 1215

Operator Rig Time 2.5 HRS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 65 ft

Logged Cement Top NA

Wellhead Pressure 0 PSI

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 208 degF

Reference Log NONE

Reference Log Date NA

Equipment No. 44271 Location GRAND JCT

Recorded By FLOYD RENEAU

Witnessed By JEFF BRADY

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	24 ft	1800 ft
8.75 in	1800 ft	7334 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			24 ft	1800 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	7334 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 6.5 feet.
Logged with zero PSI at wellhead.
BHT = 208°F
SJ = 4130'-4156'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218496	CENT
1	1	GR/CCL	1355XA	11871510	CENT

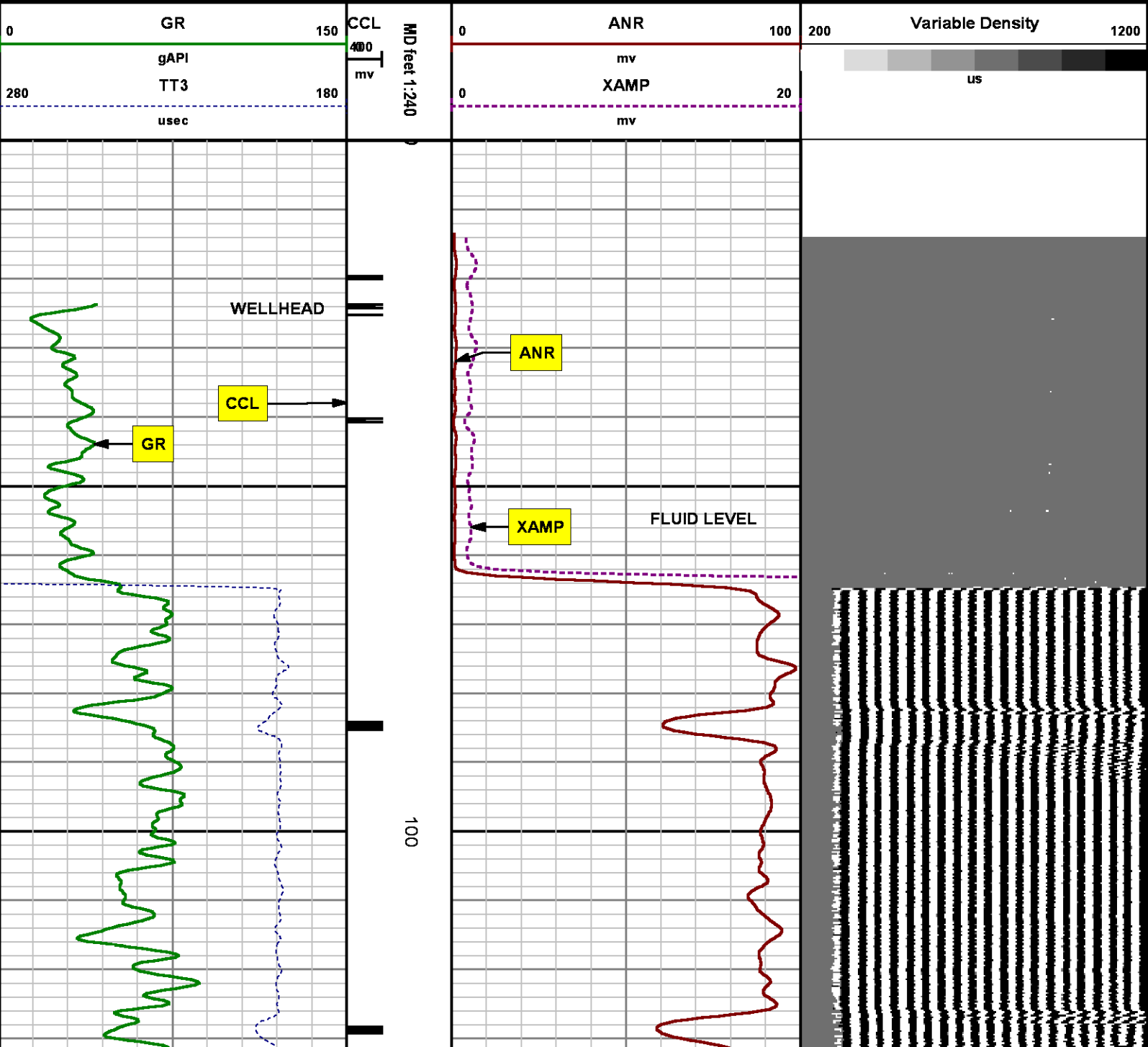
PRIMARY PRESENTATION
0 PSI

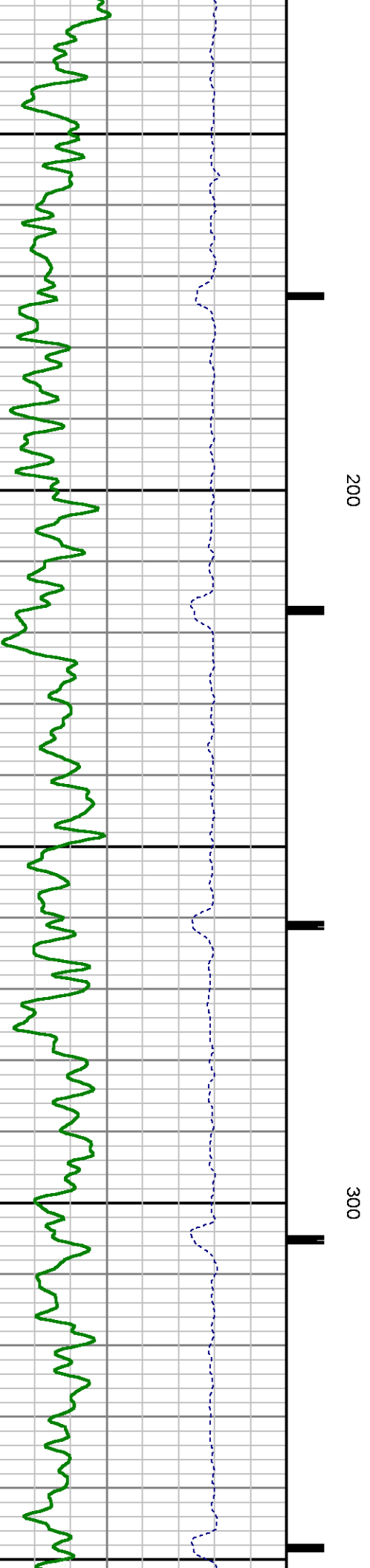
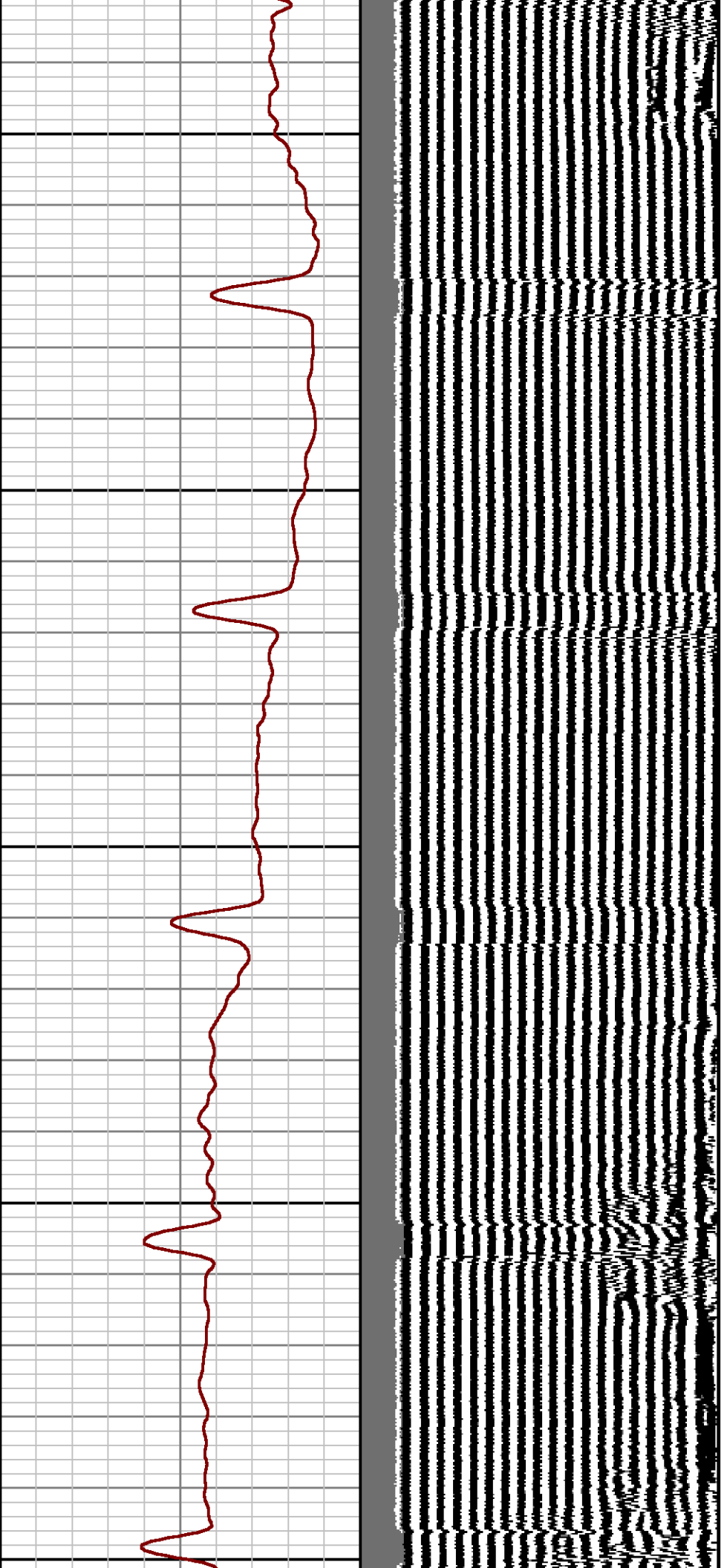
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RAL	Amp Gate Start Near	195.000	usec	28.625	7306.500
RAL	Amp Gate Start Radial	195.000	usec	28.625	7306.500
RAL	Amp Gate Width Far	25.000	usec	28.625	7306.500
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RAL	casing od	4.500	inches	28.625	7306.500
RAL	casing wt	11.600	lbm/ft	28.625	7306.500
RAL	FB Start Far	291.900	usec	28.625	7306.500
RAL	FB Start Near	180.000	usec	28.625	7306.500
RAL	FB Start Radial	180.000	usec	28.625	7306.500
RAL	FB Thresh Far	10.000	mv	28.625	7306.500
RAL	FB Thresh Near	4.000	mv	28.625	7306.500
RAL	FB Thresh Radial	4.000	mv	28.625	7306.500
RAL	Fluid Travel Time	200.000	usec/ft	28.625	7306.187

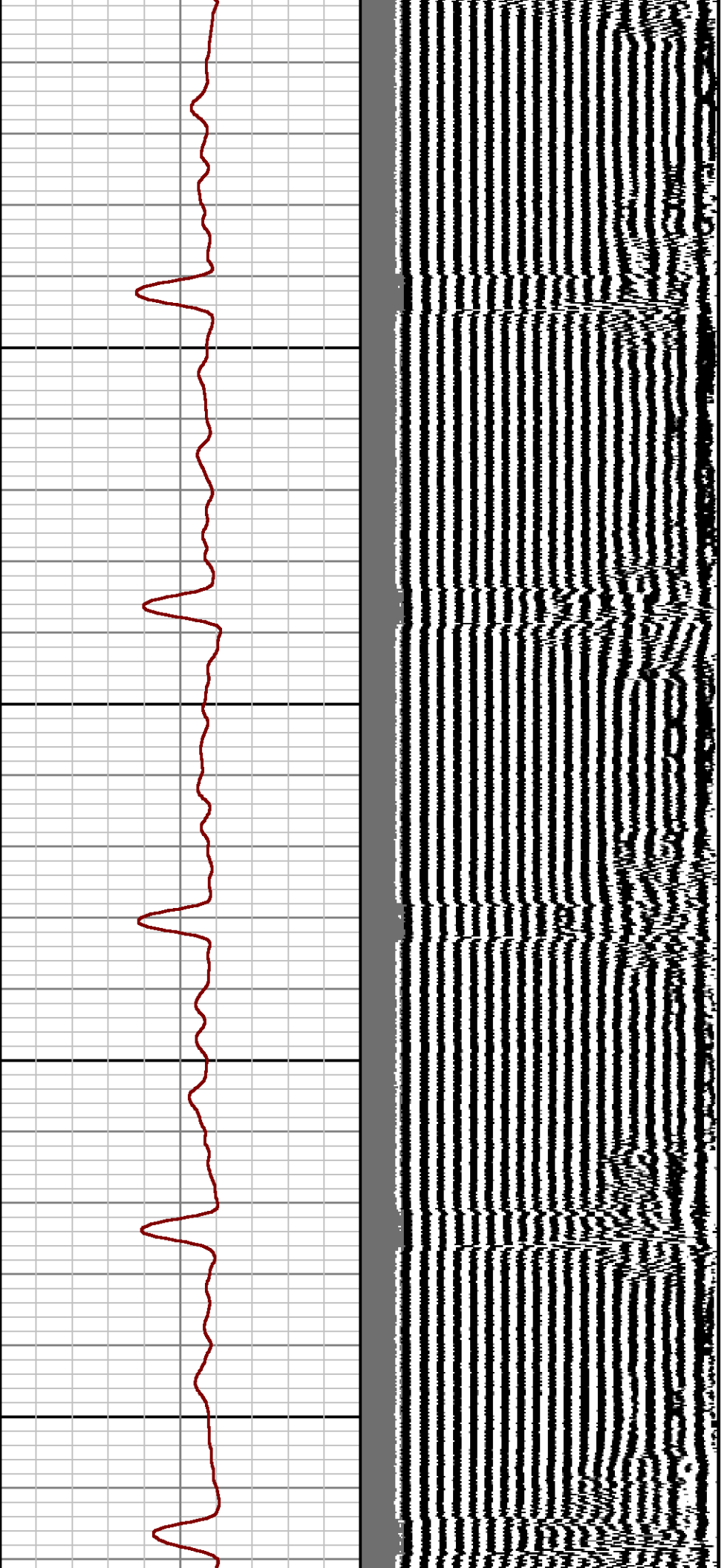
DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008
 Plotted by : PlotMgr, v5.4.504
 Company : WPX ENERGY
 Well : C&C ENERGY GM 344-12
 File Name : d:\welldata\wpx\gm 344-12\ral344\main.xtf
 Mode : PlotMgr 5.4.504
 Interval : 0.00 - 7306.50 feet UP
 Created : 9/6/2014 10:25:53 AM

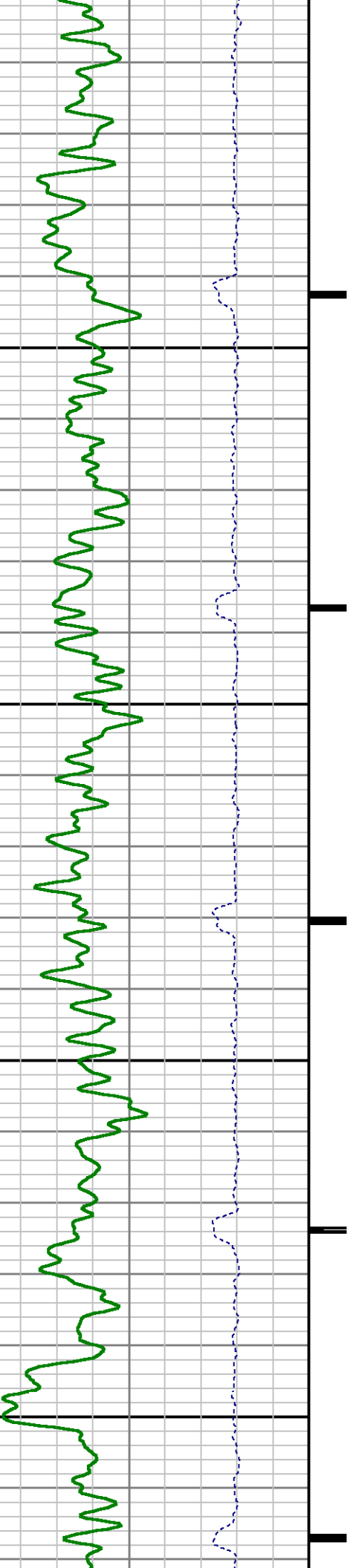


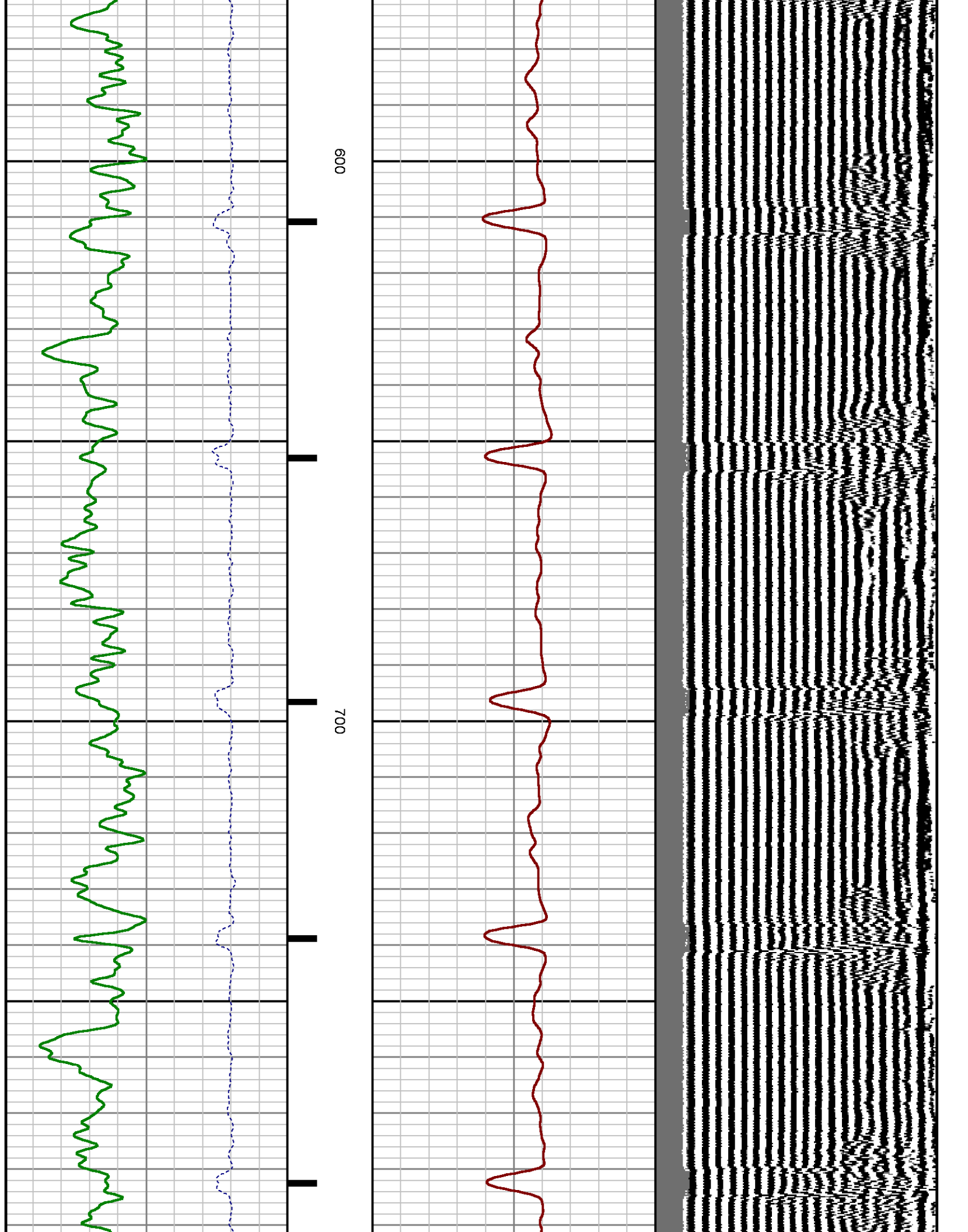


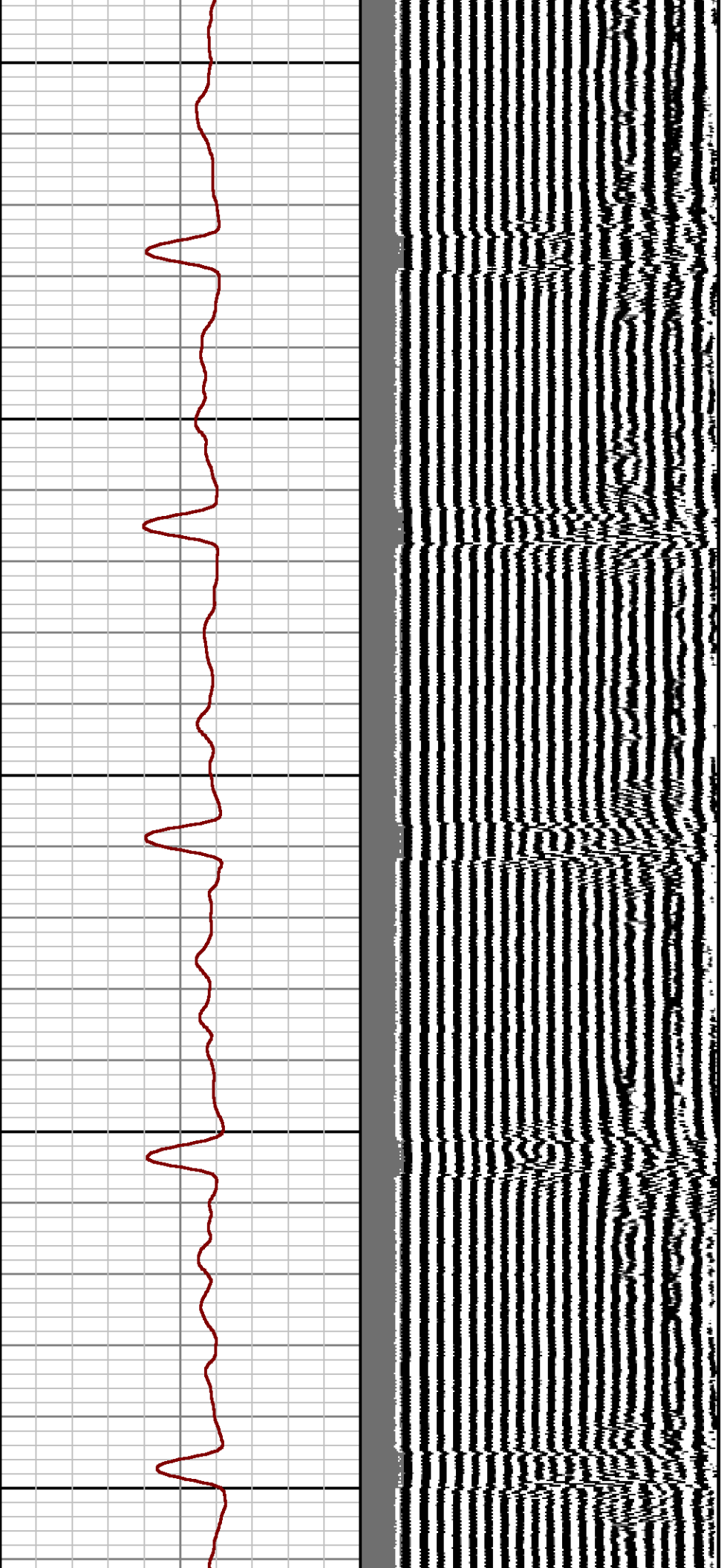


400

500



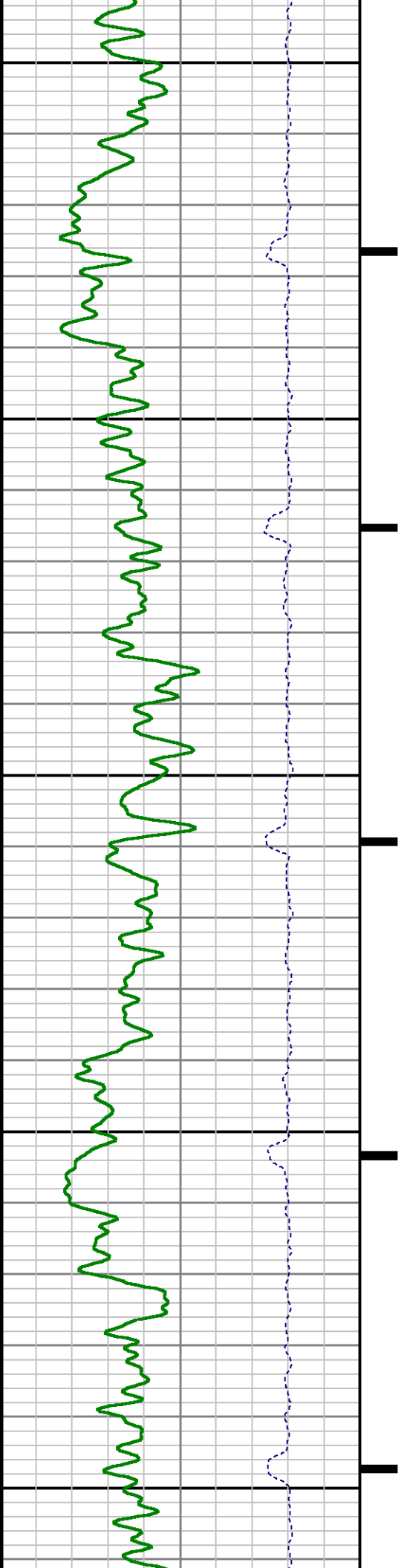


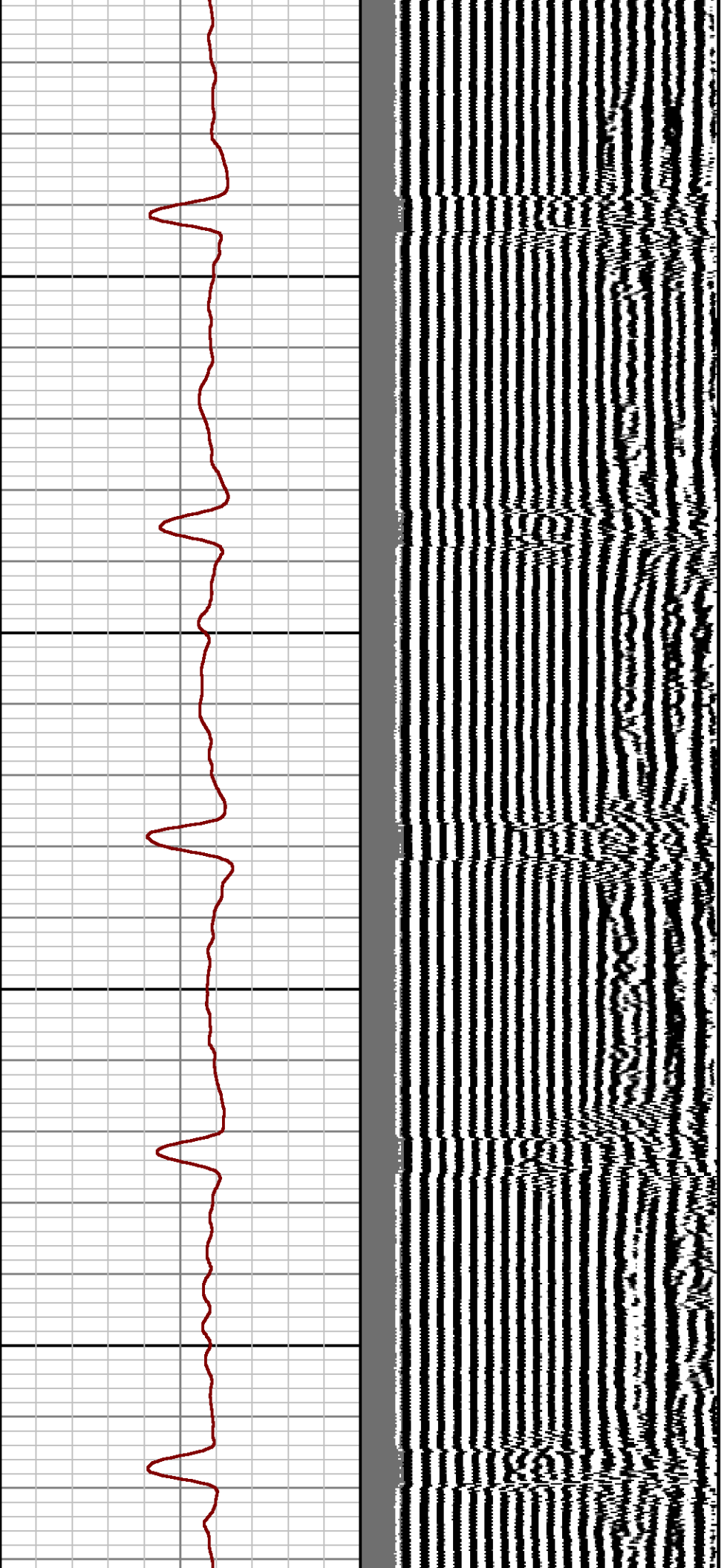


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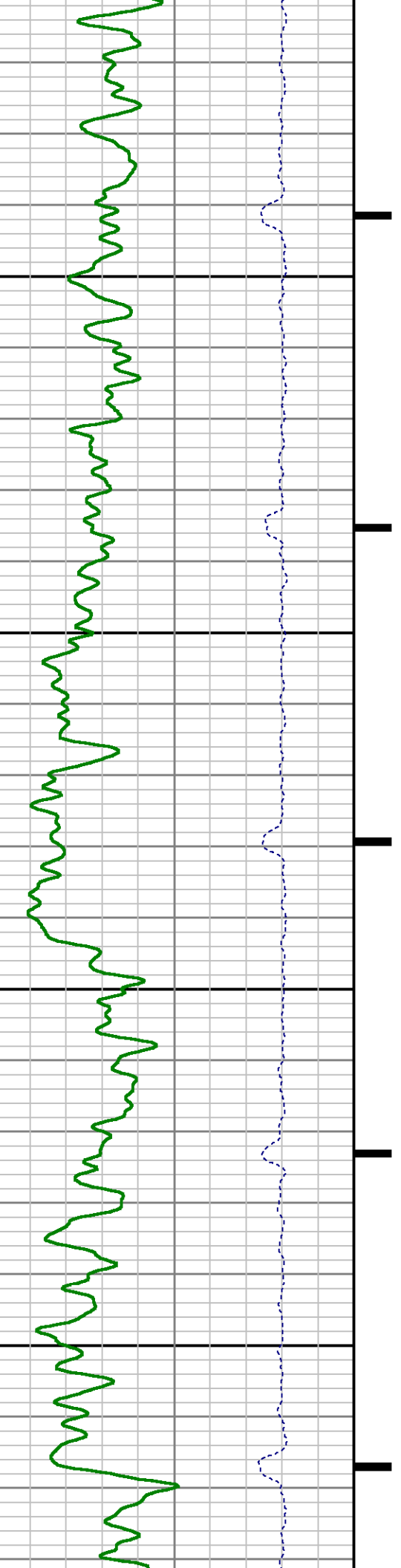
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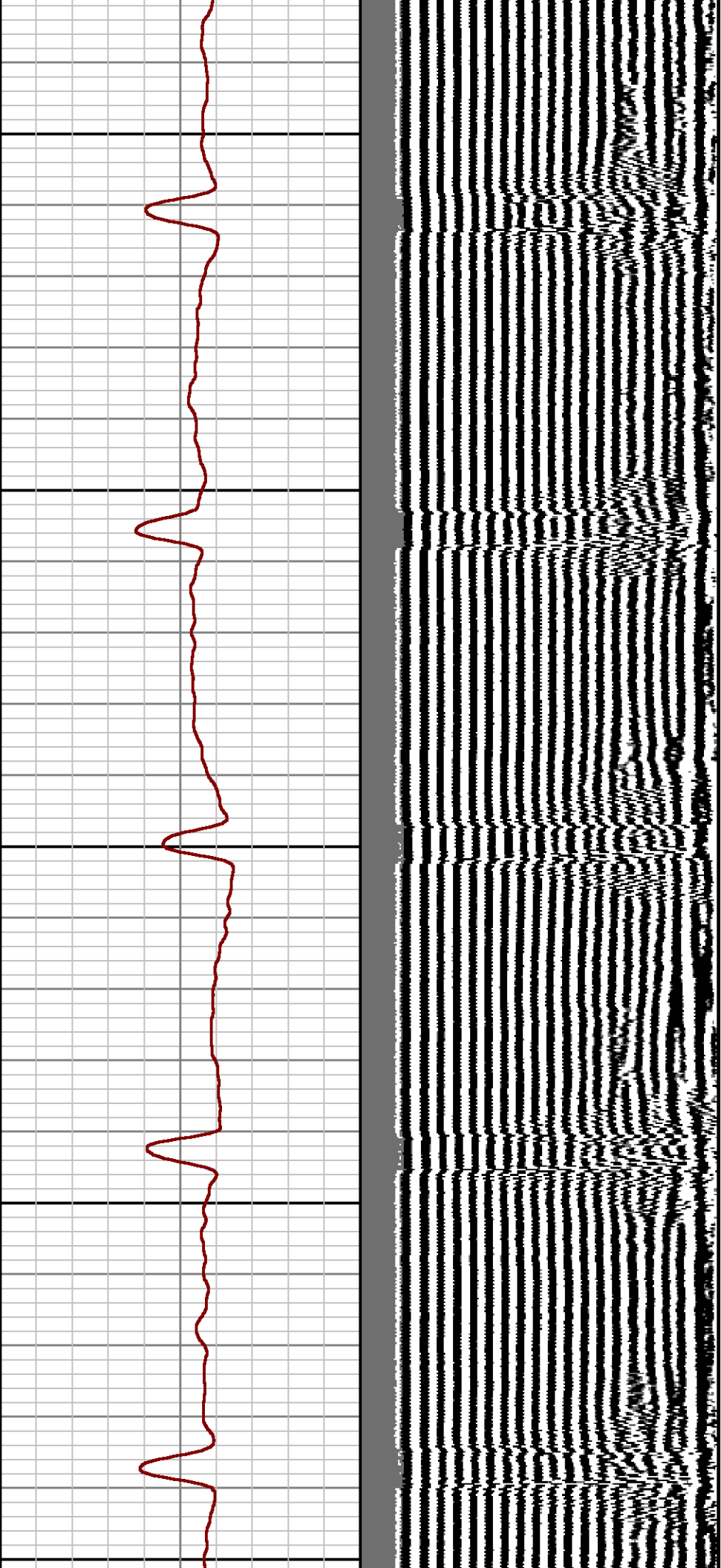




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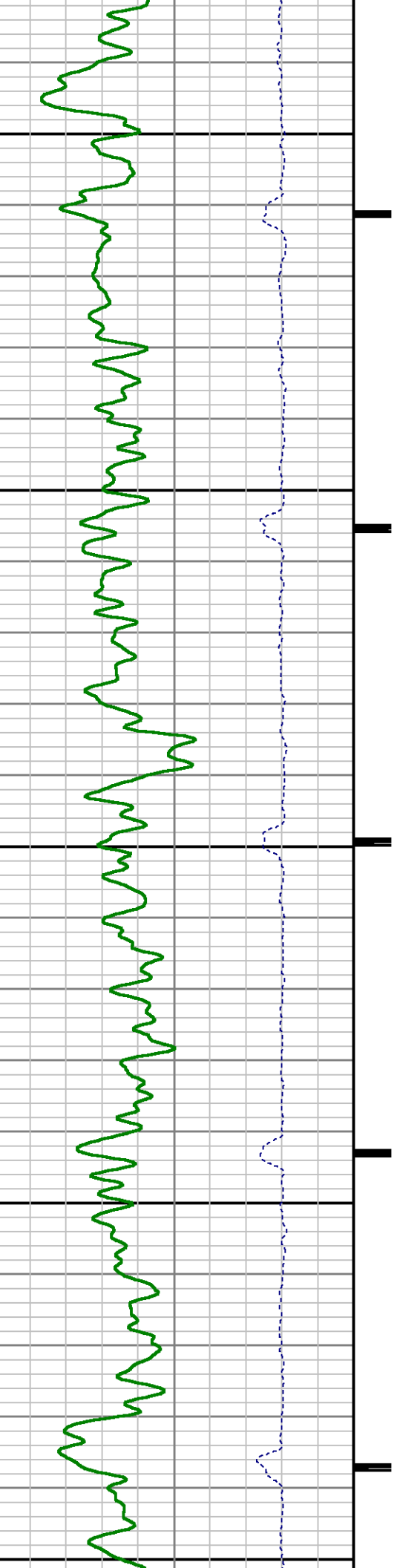
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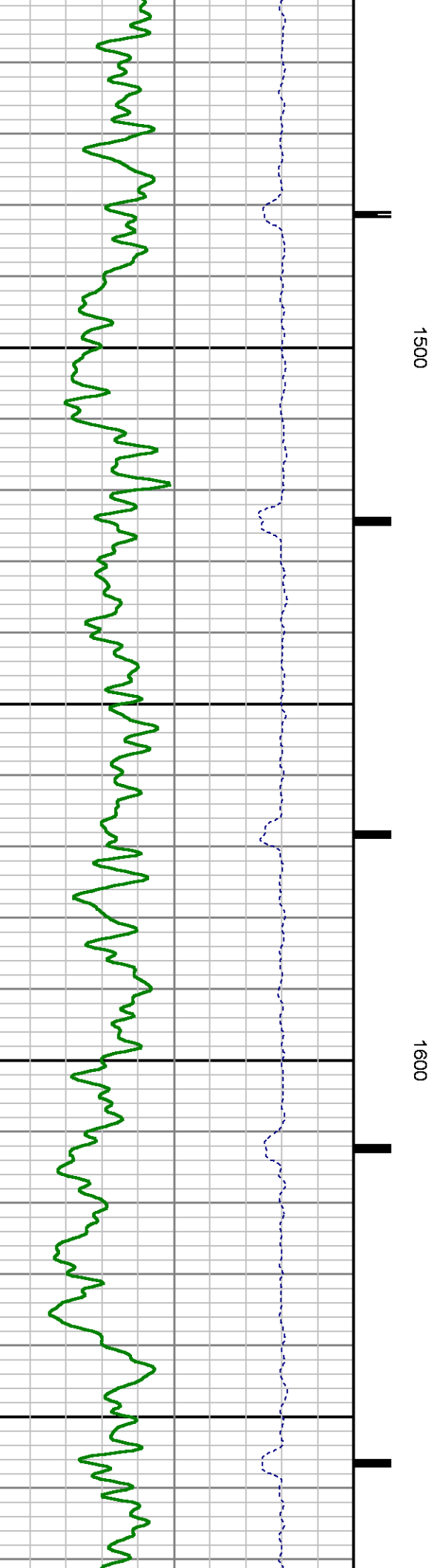
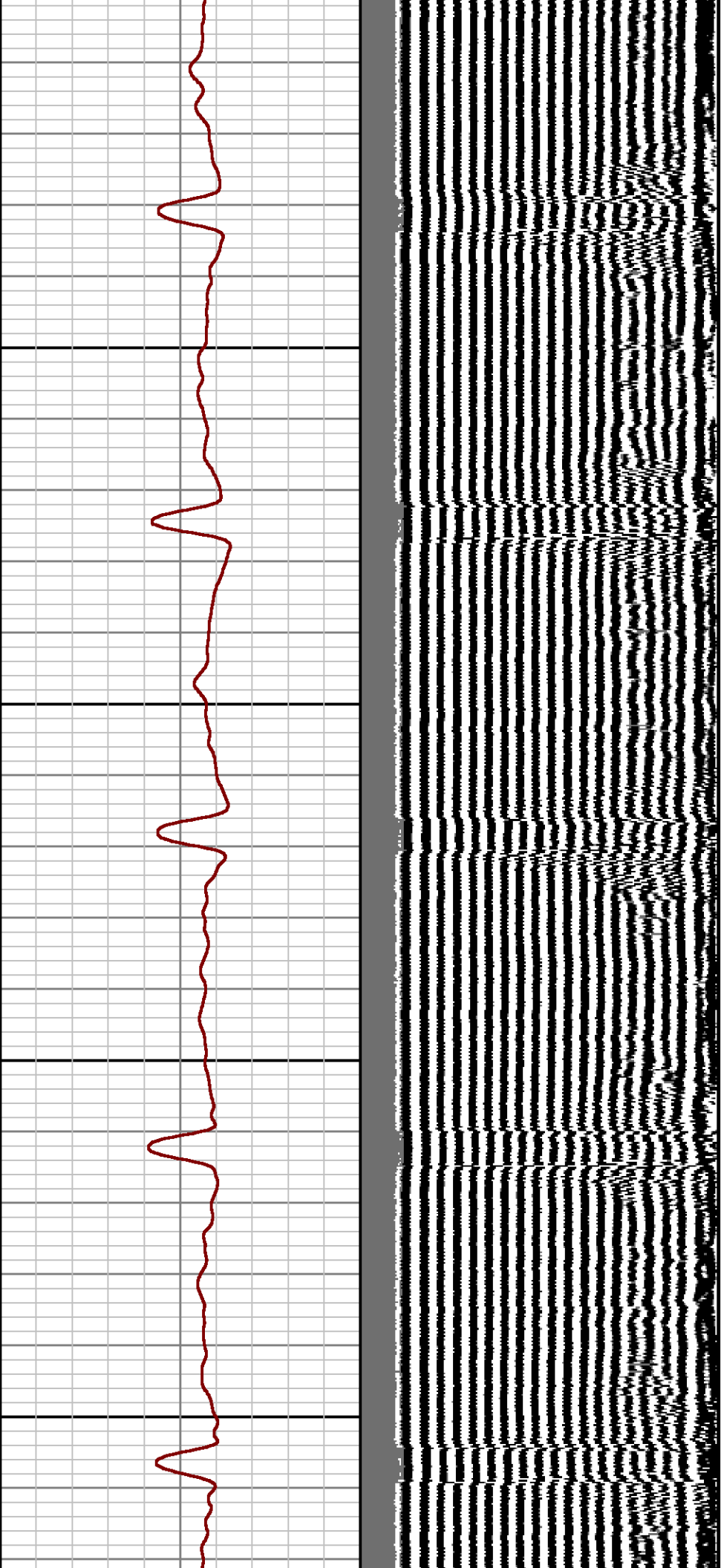


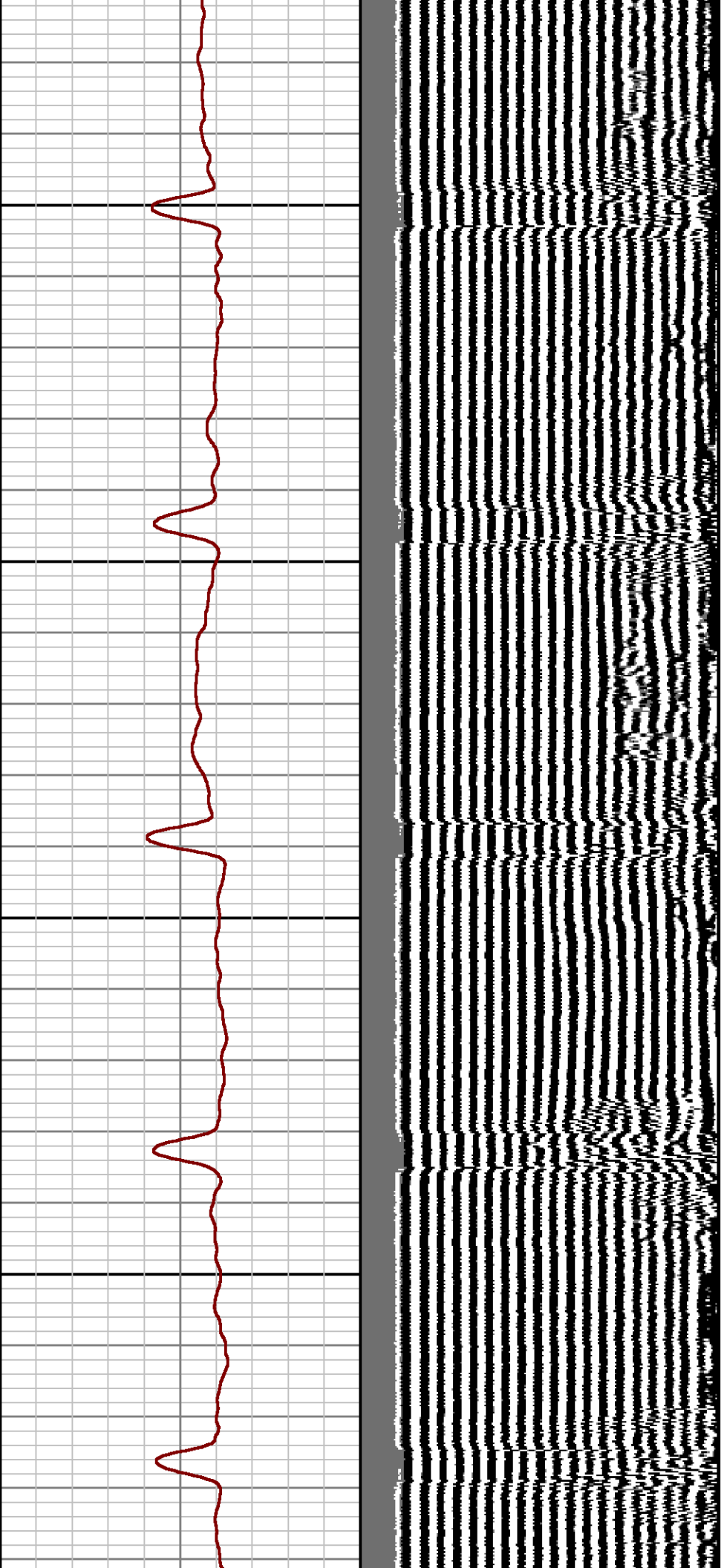


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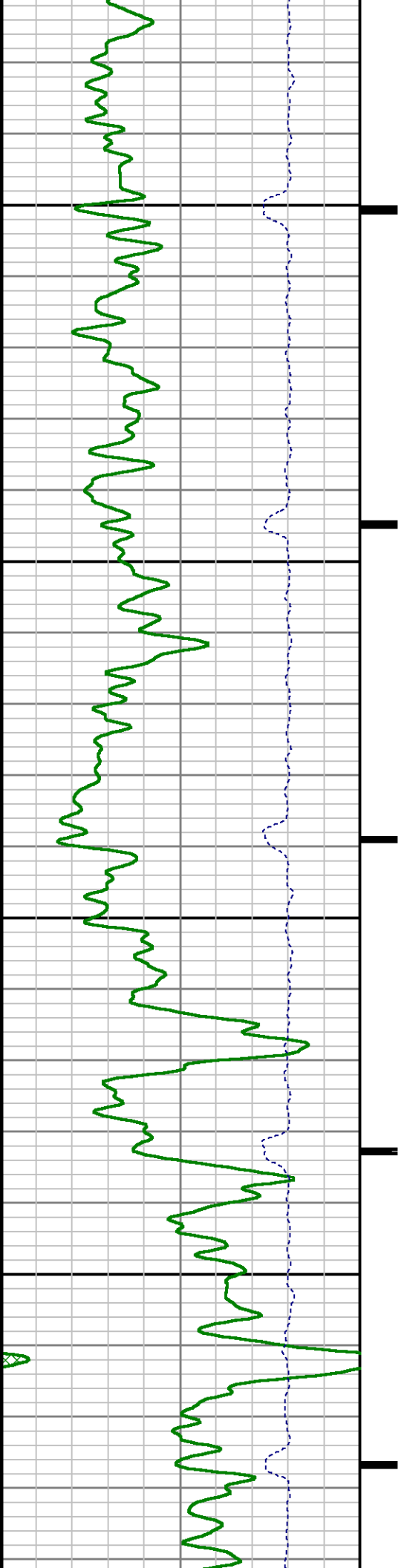


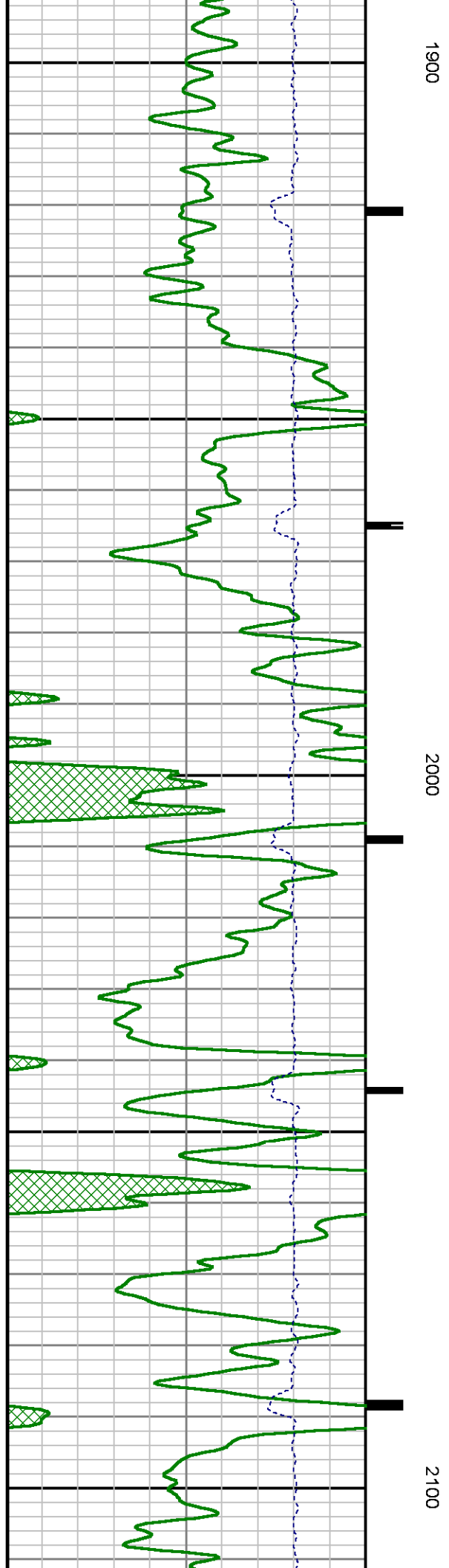
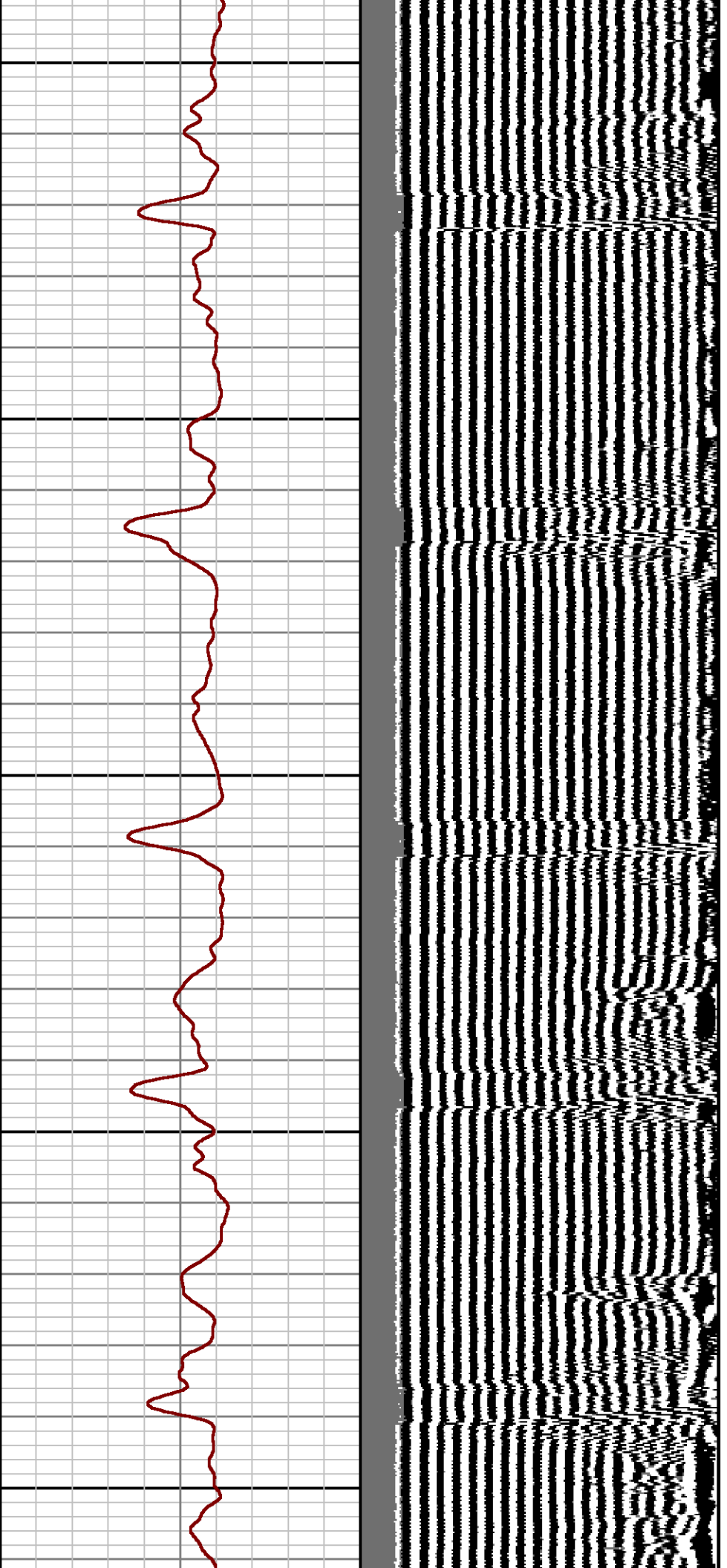


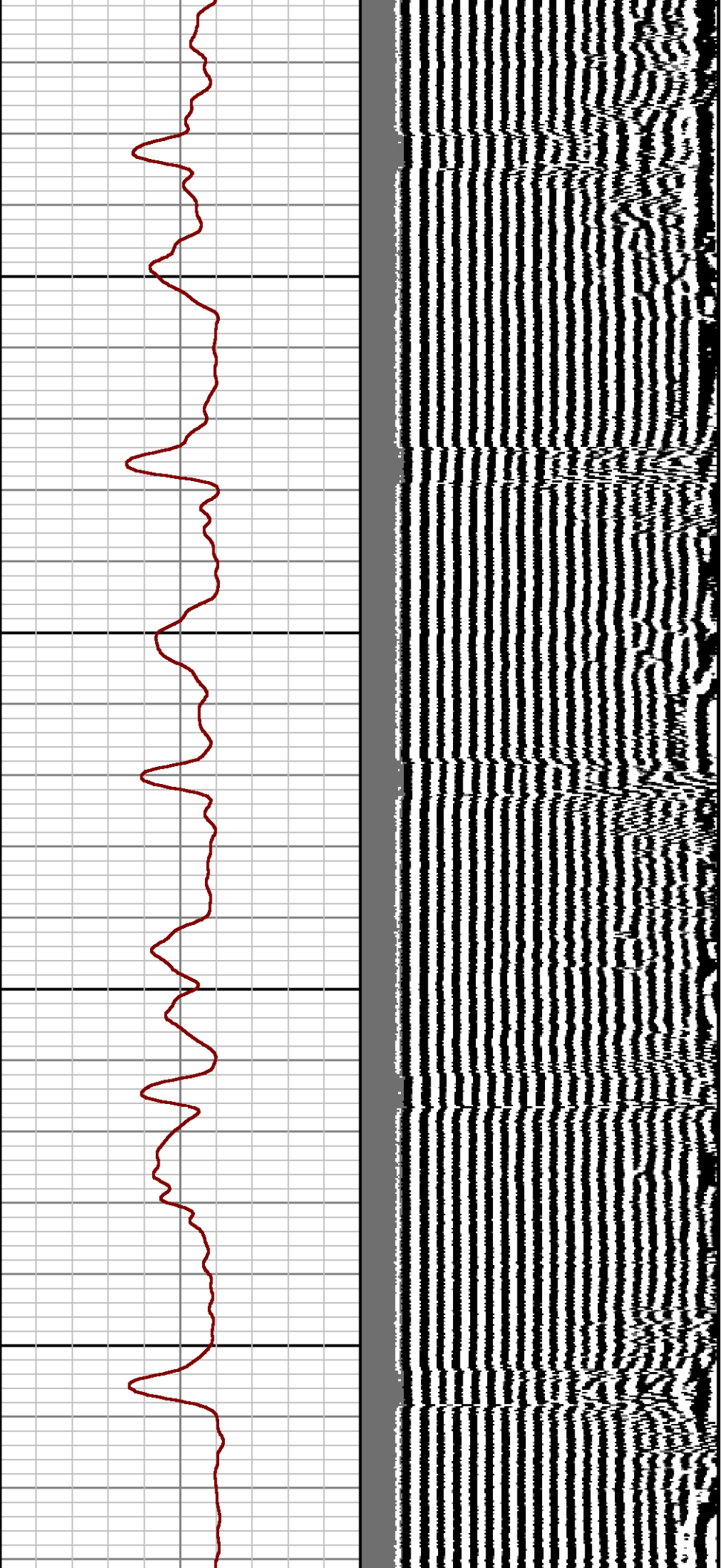


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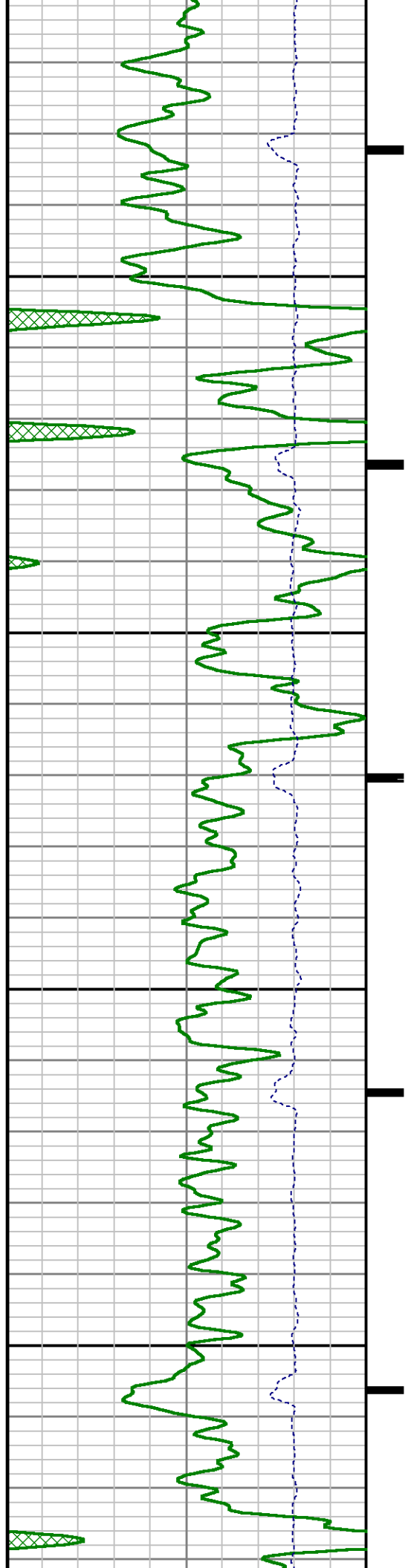


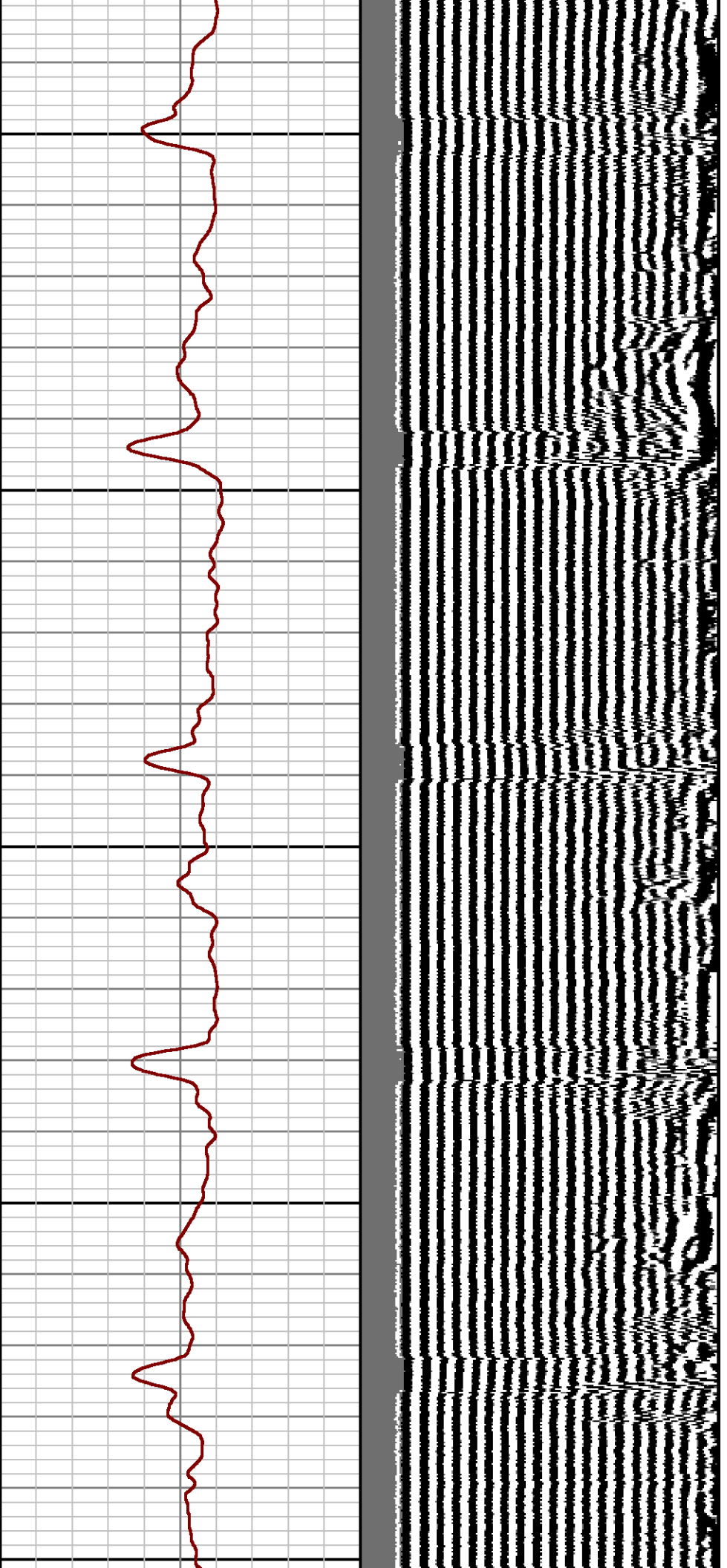




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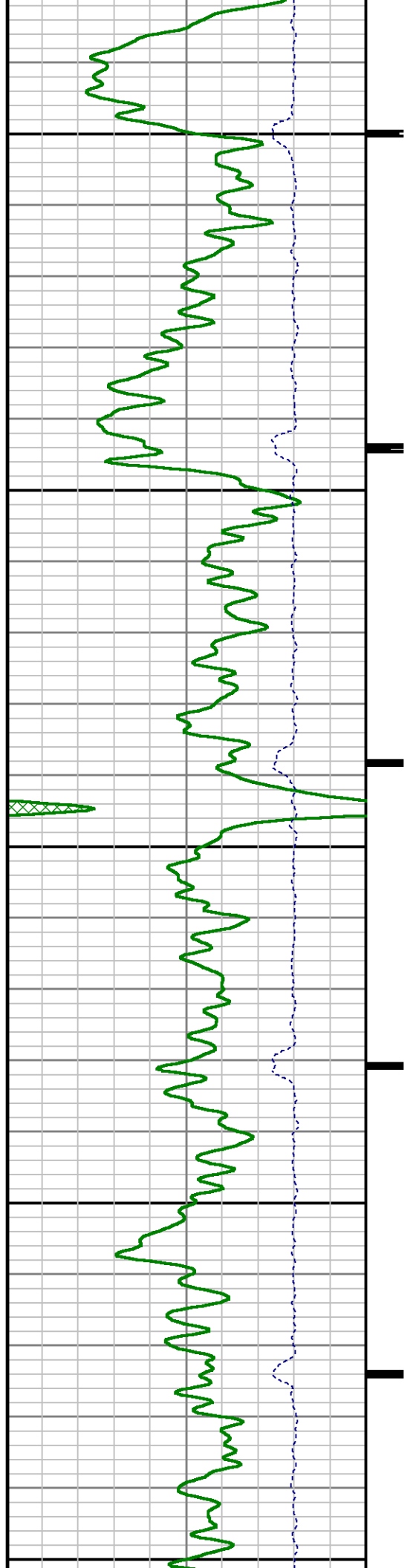
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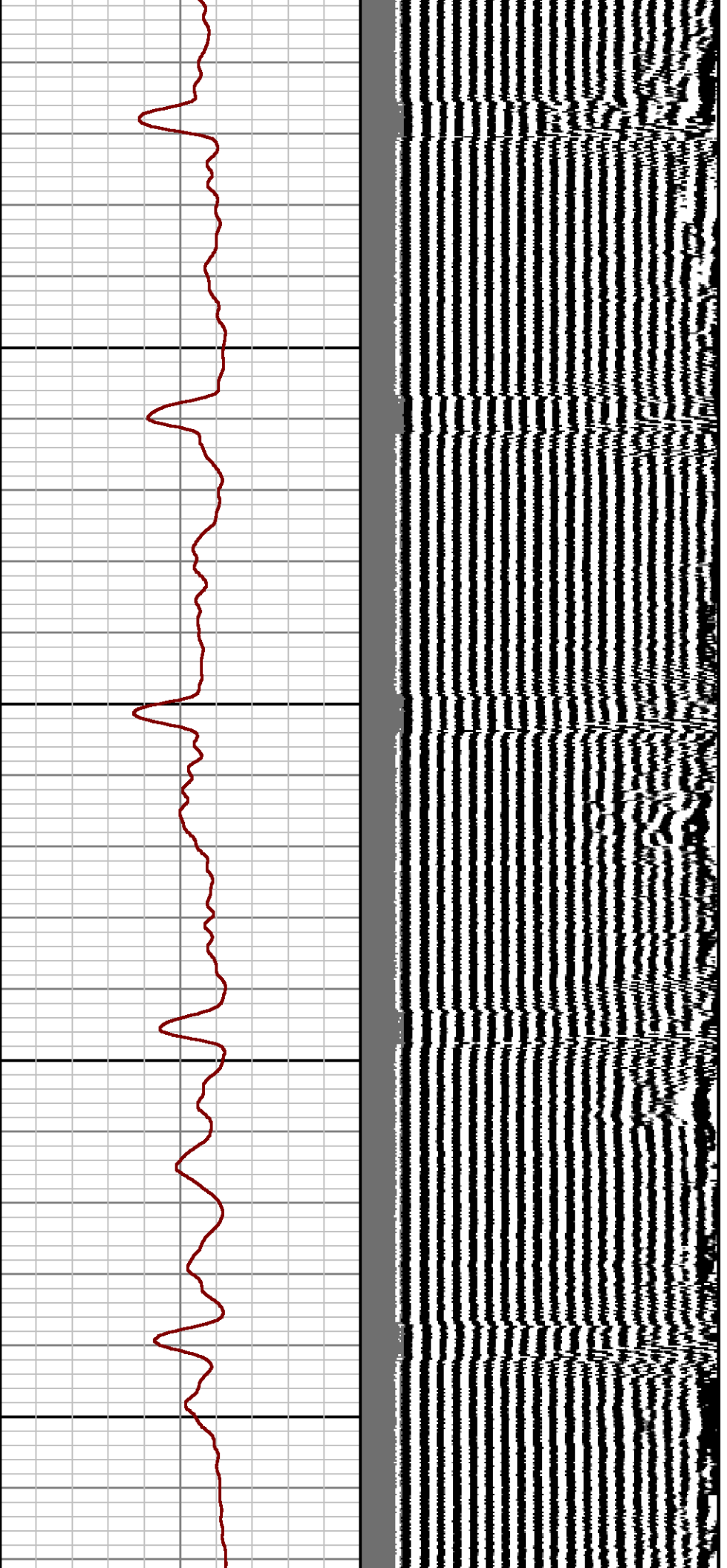




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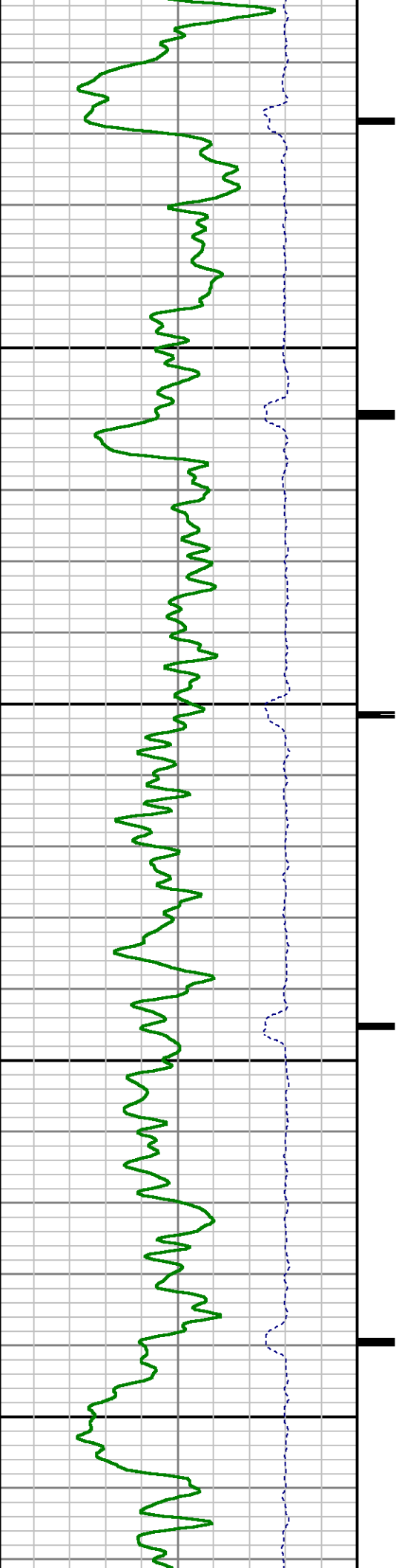
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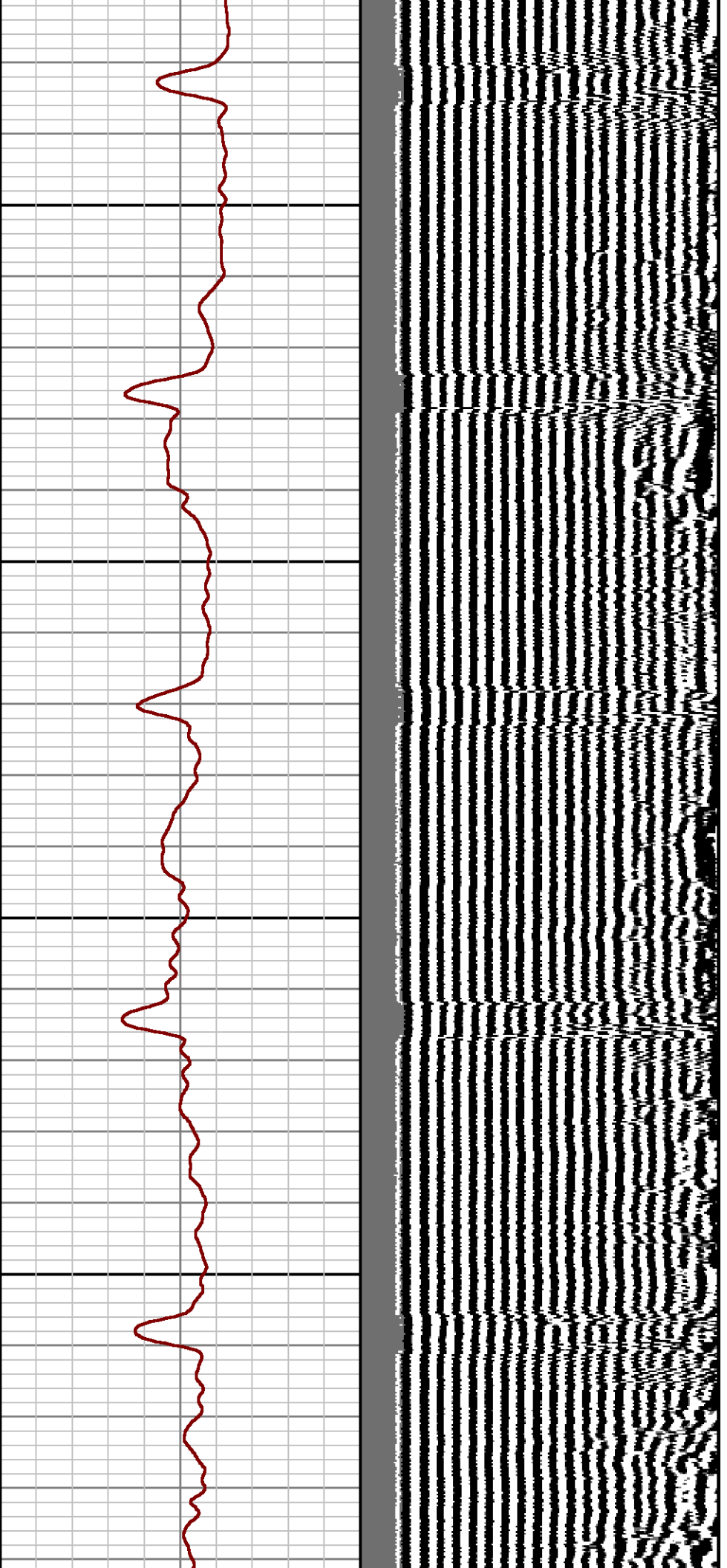




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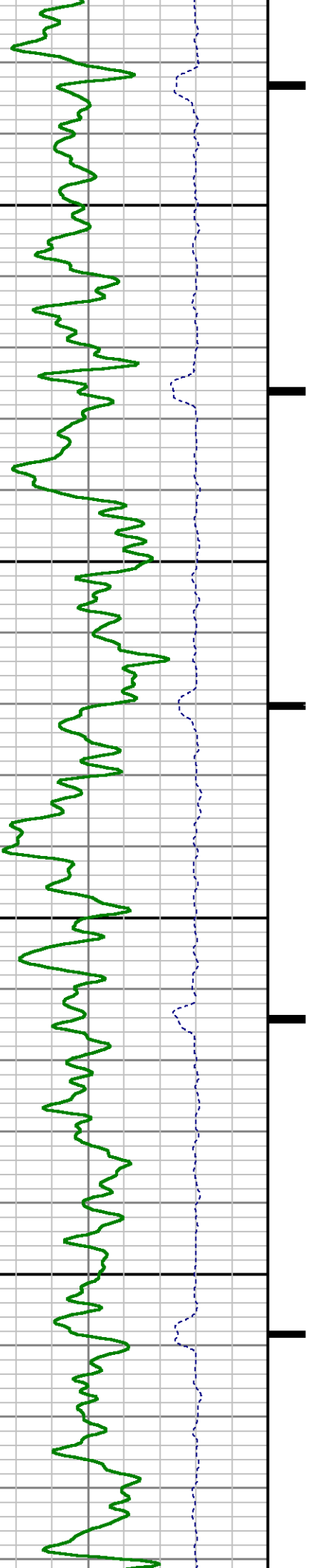
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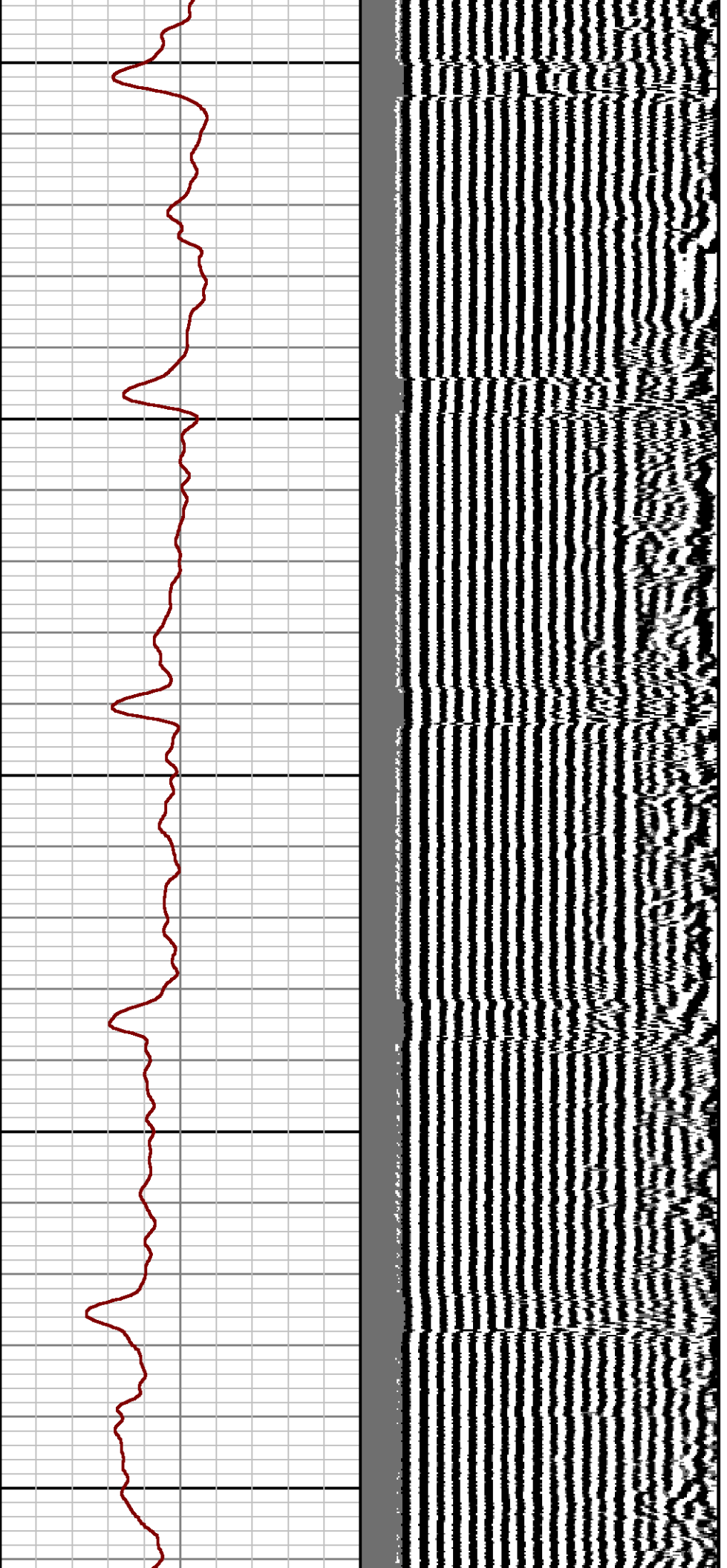




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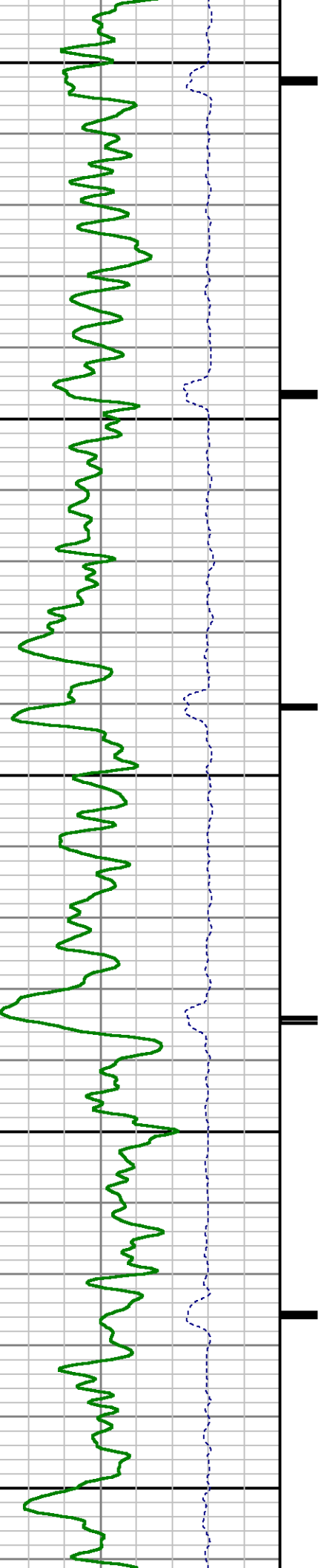


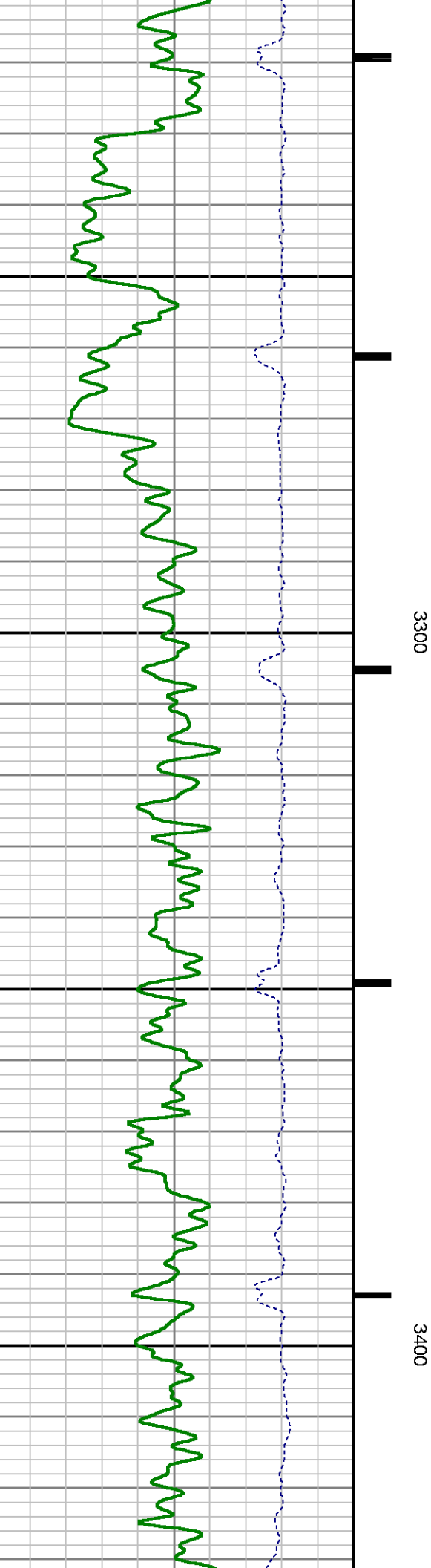
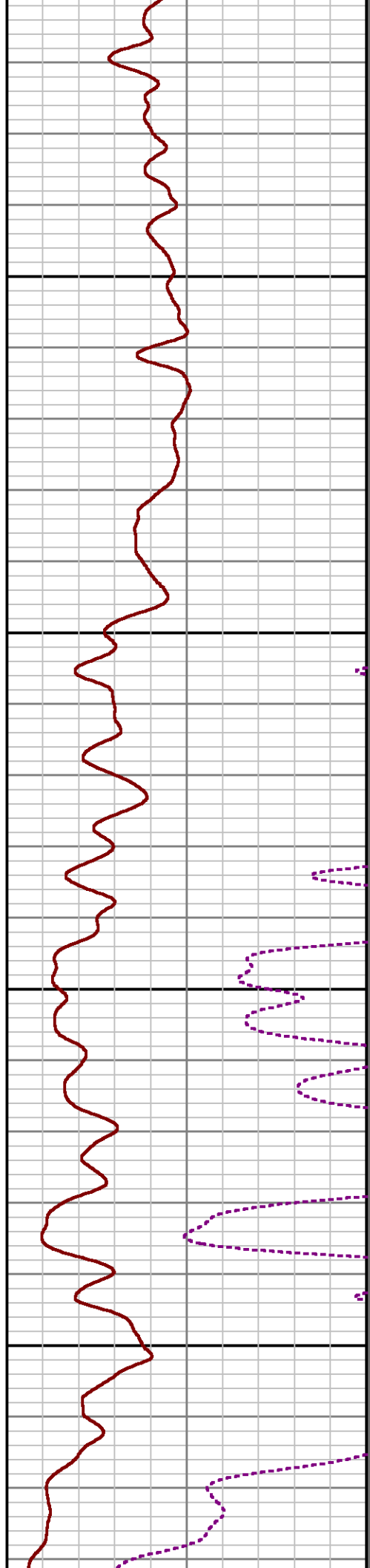
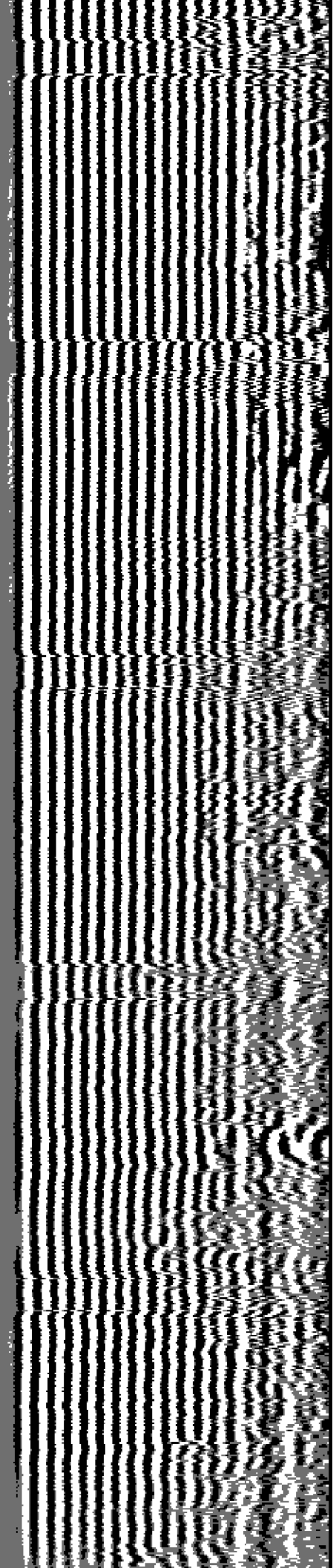


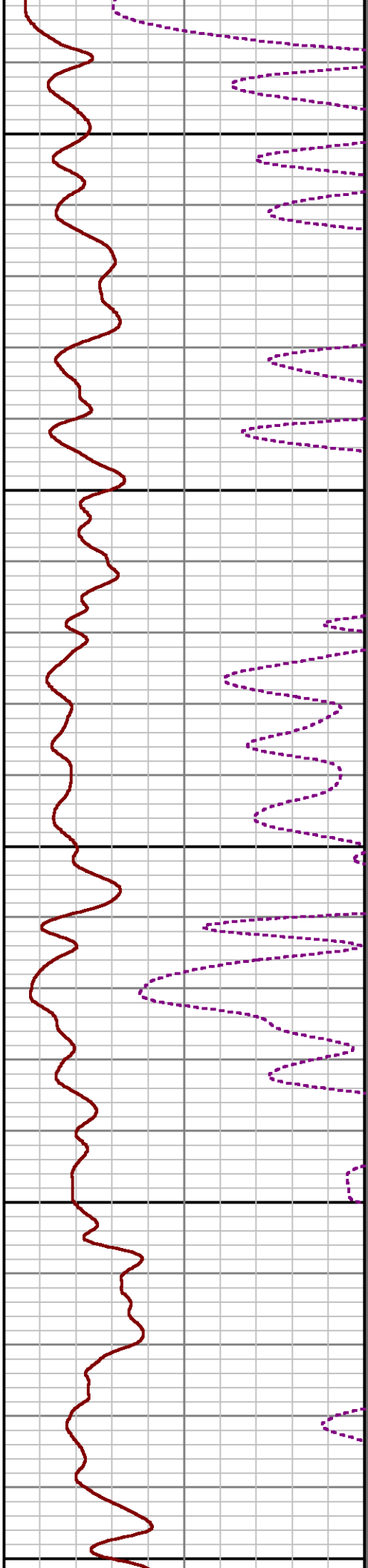
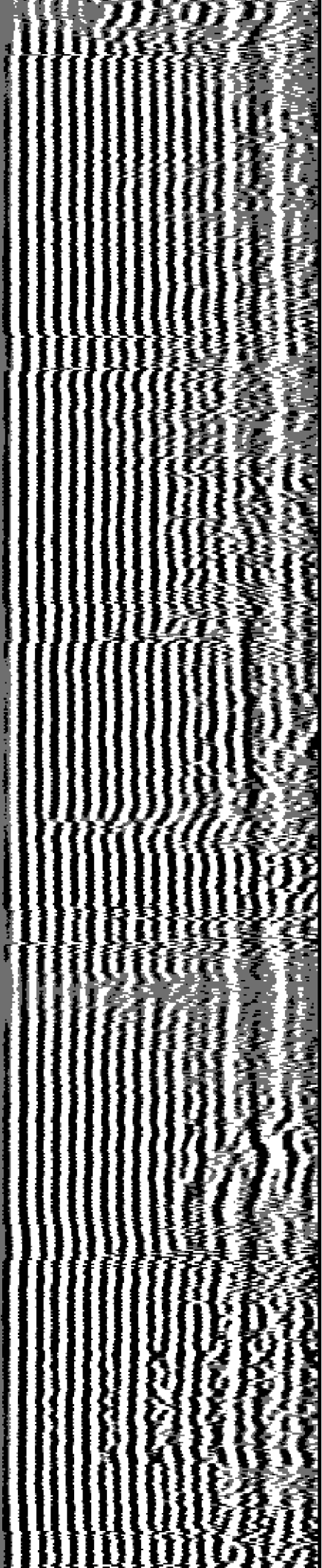
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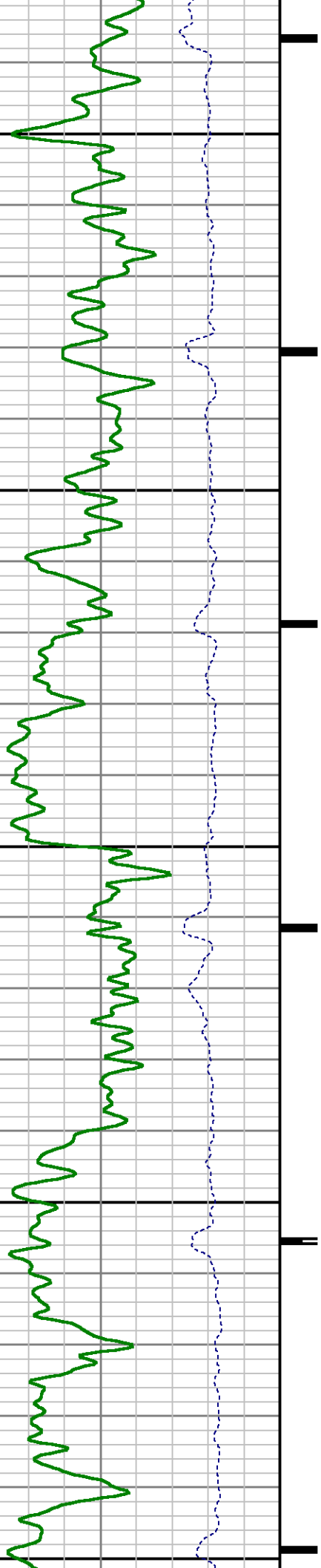


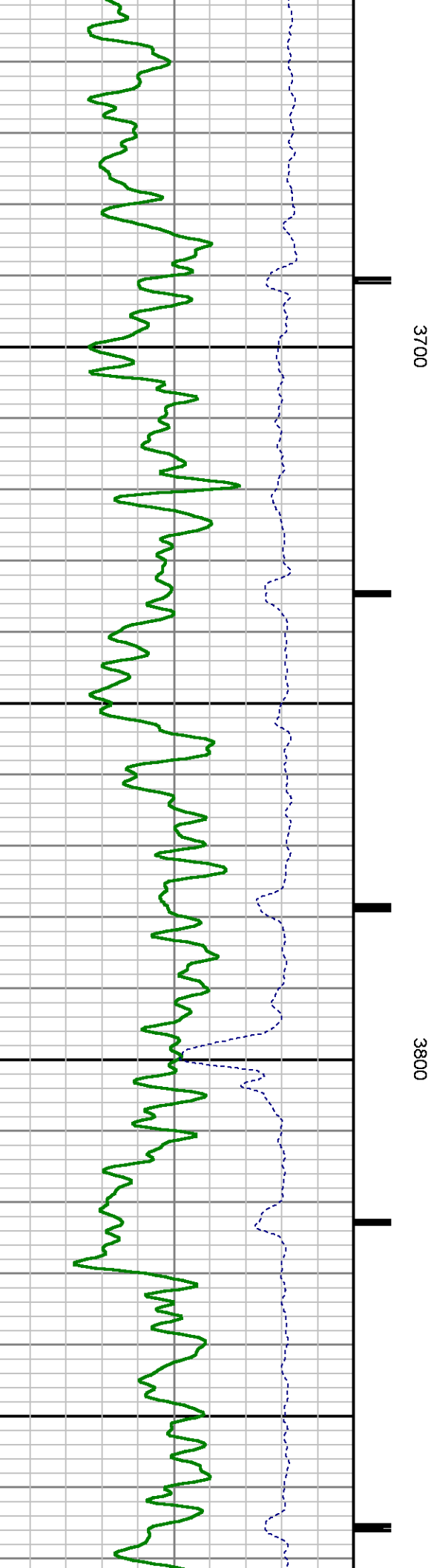
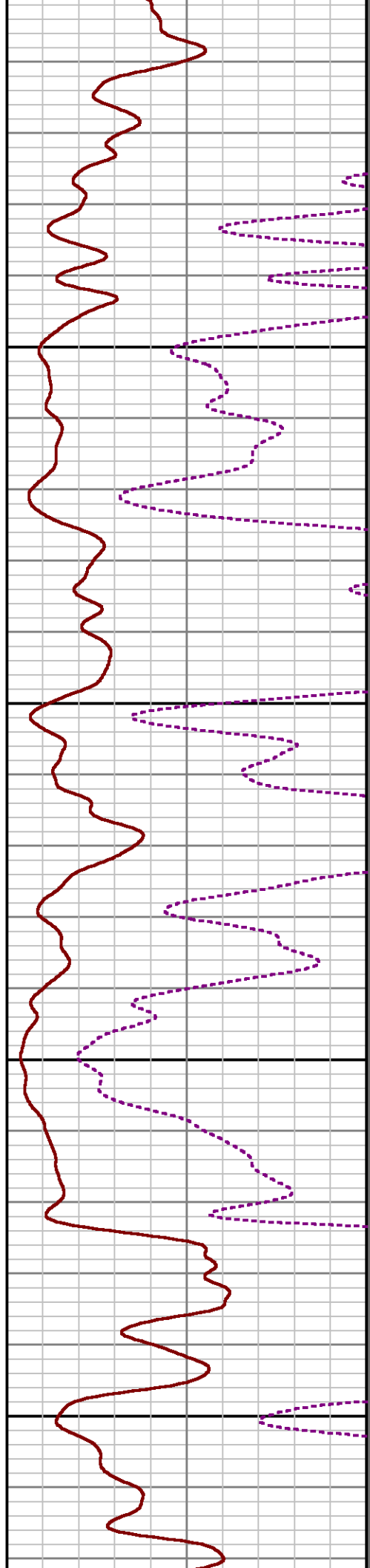
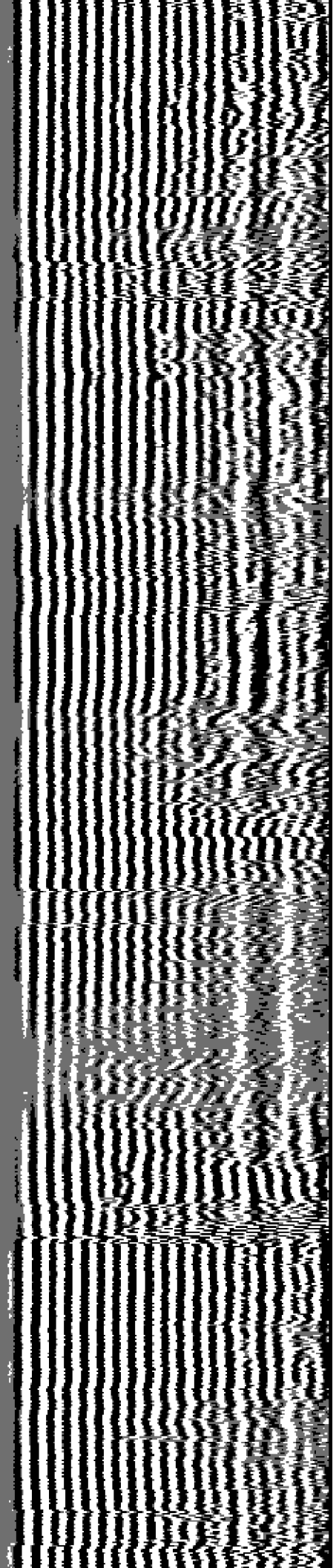


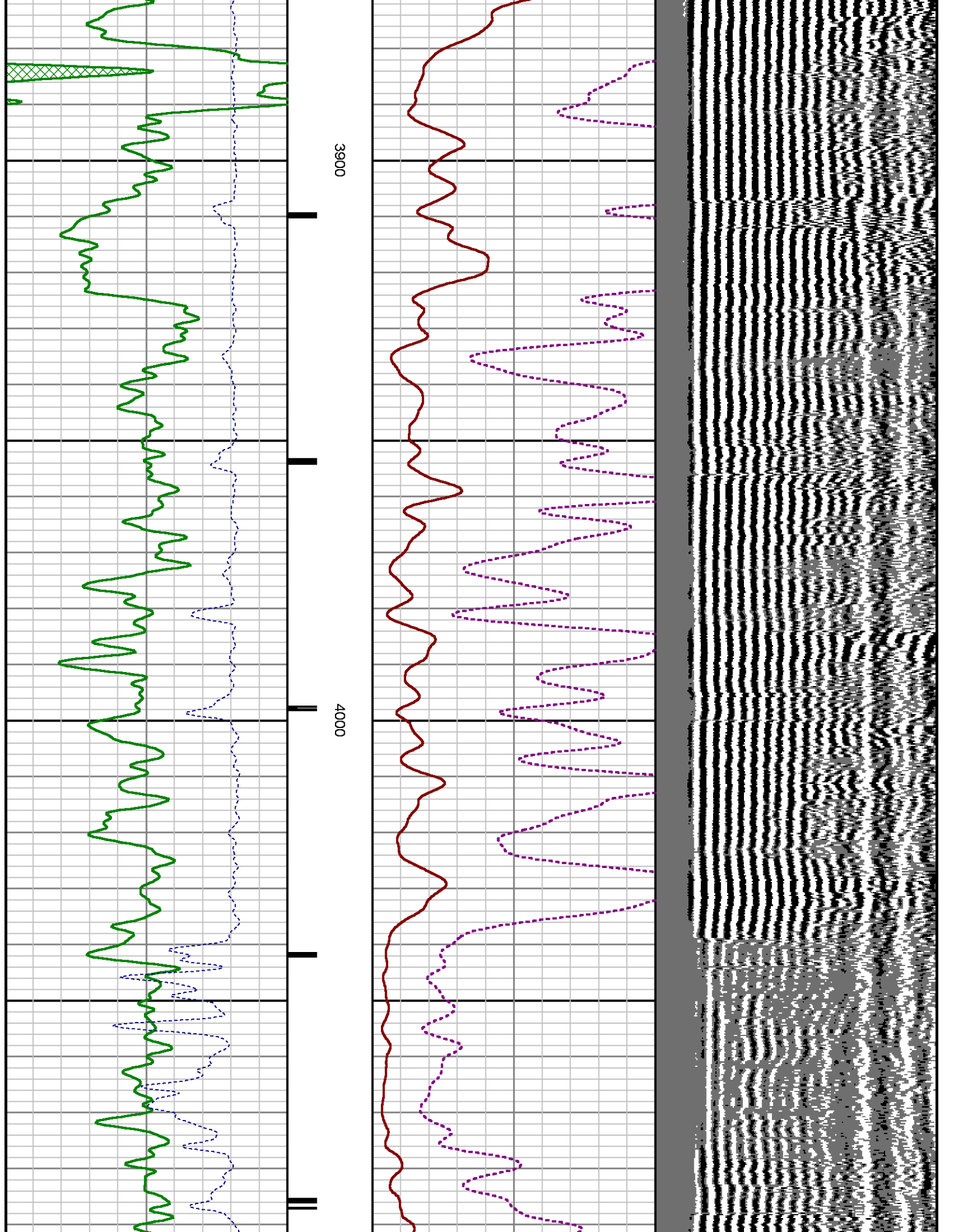


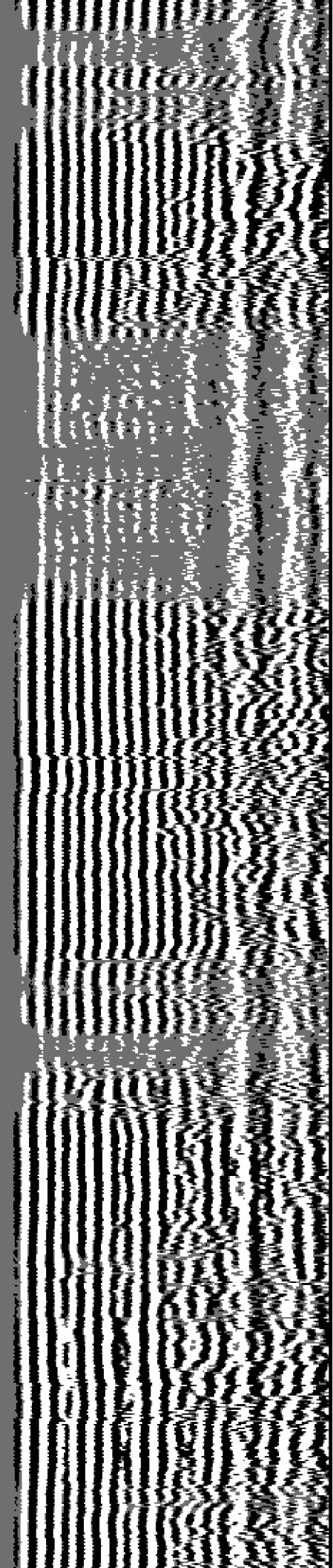
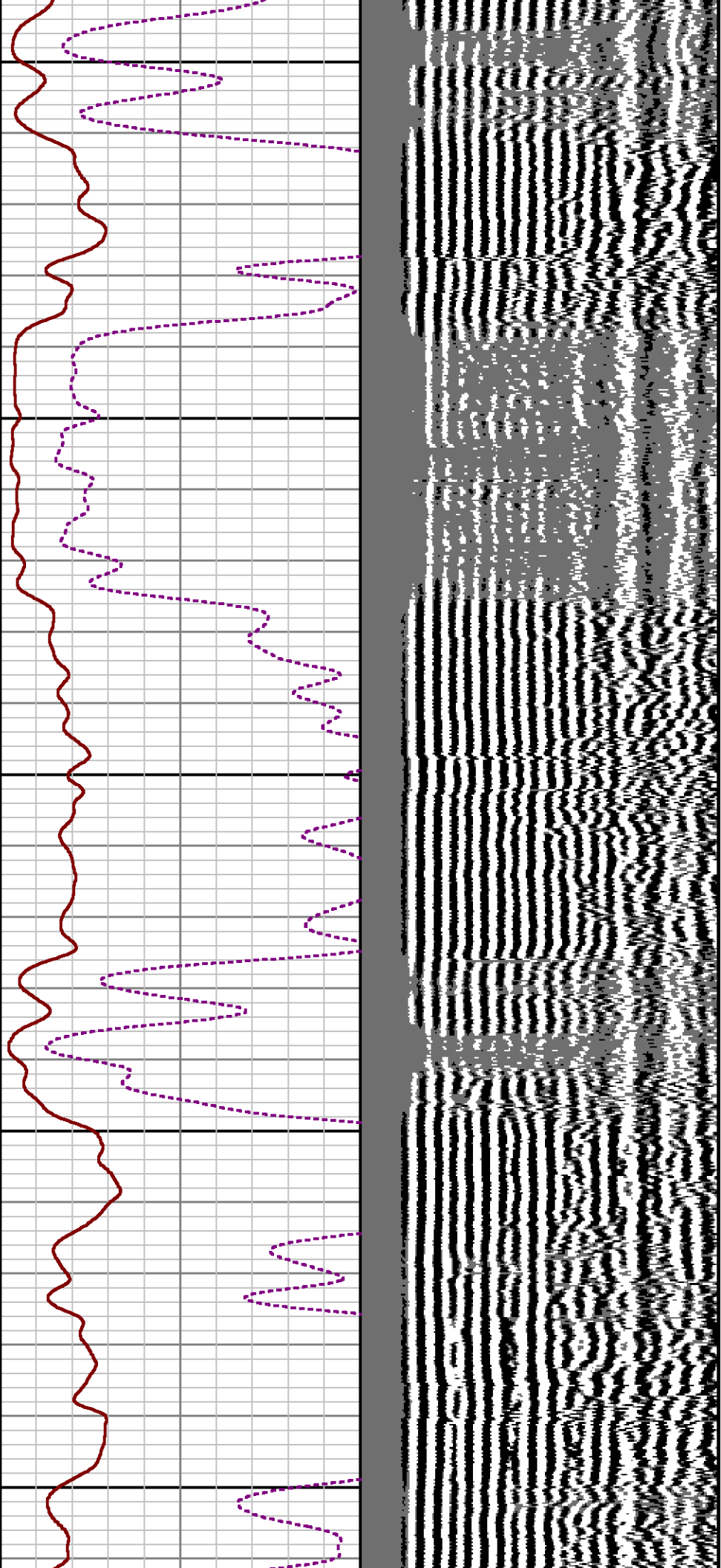
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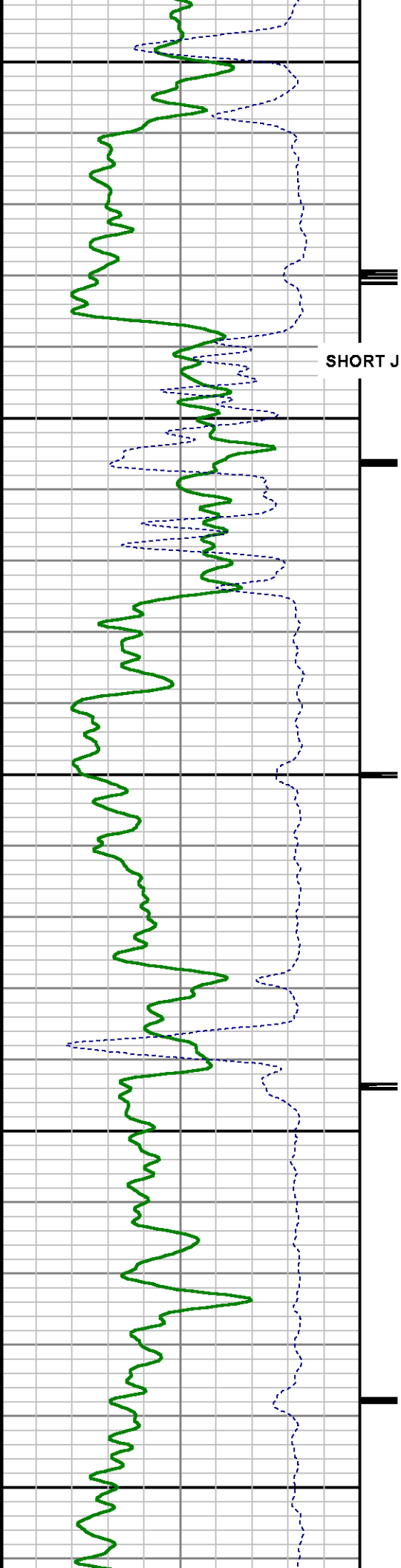


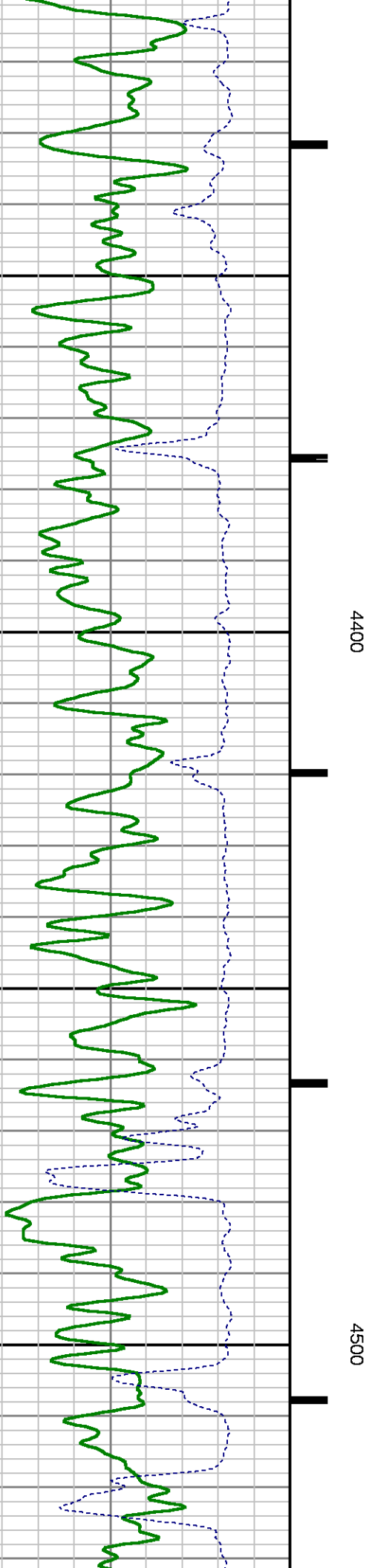
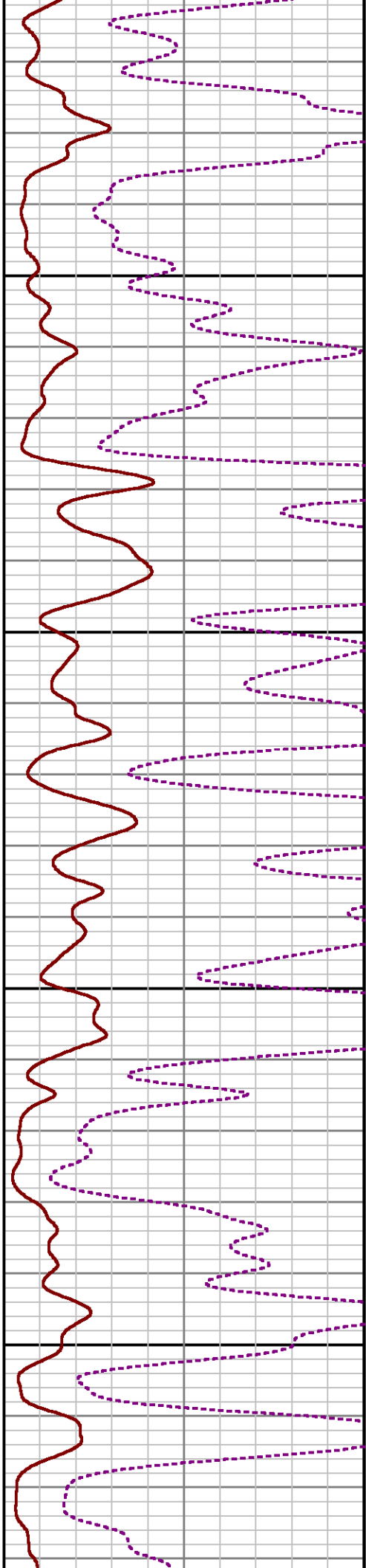
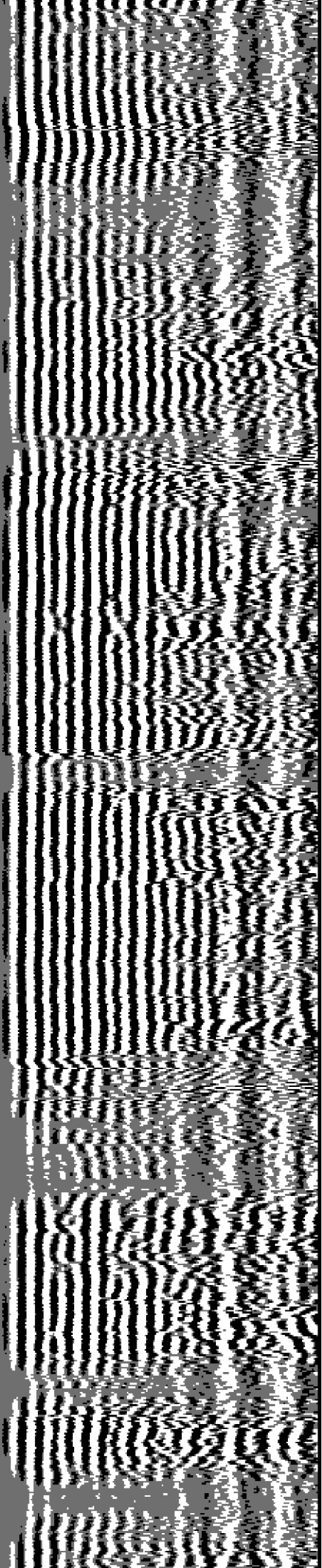
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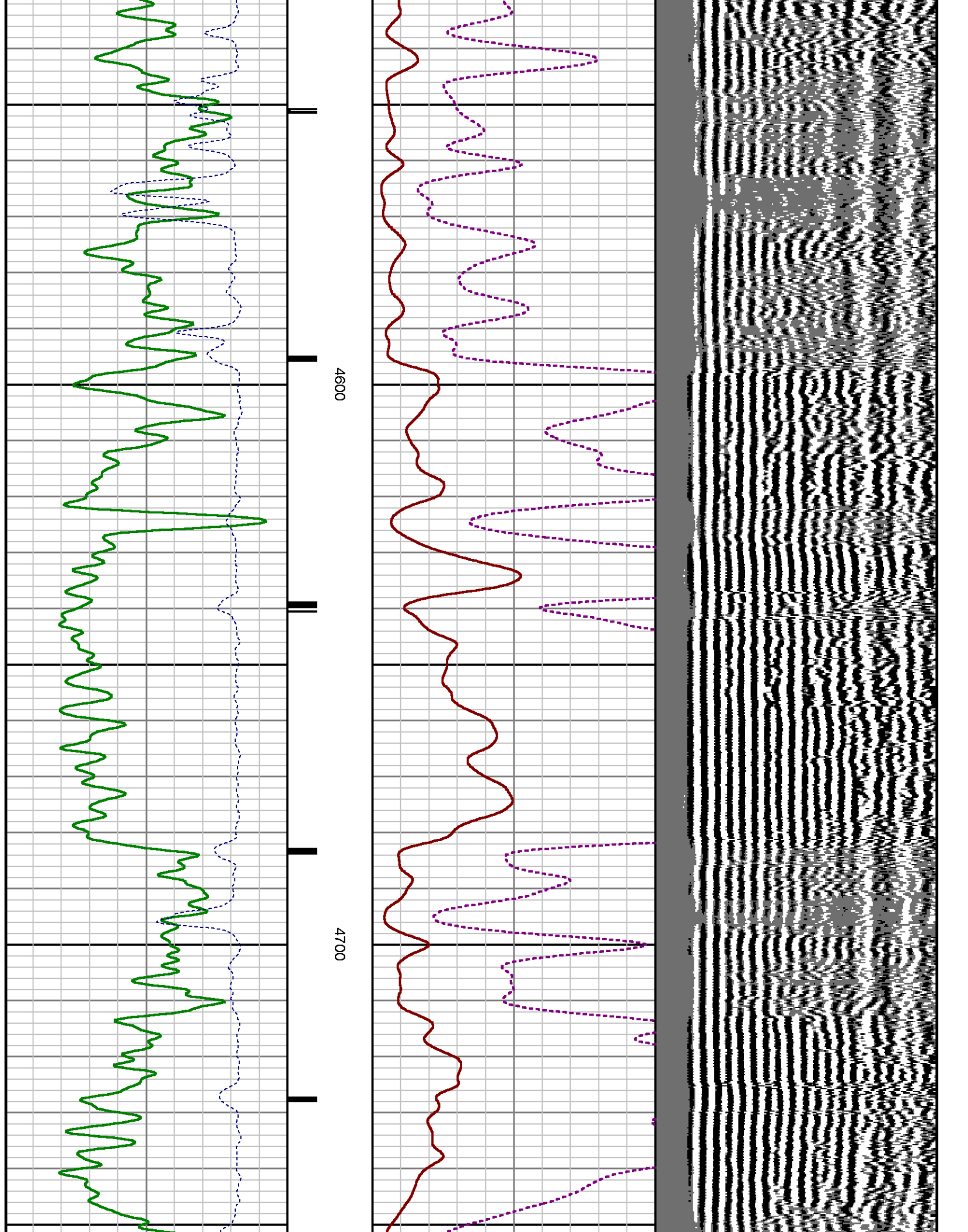
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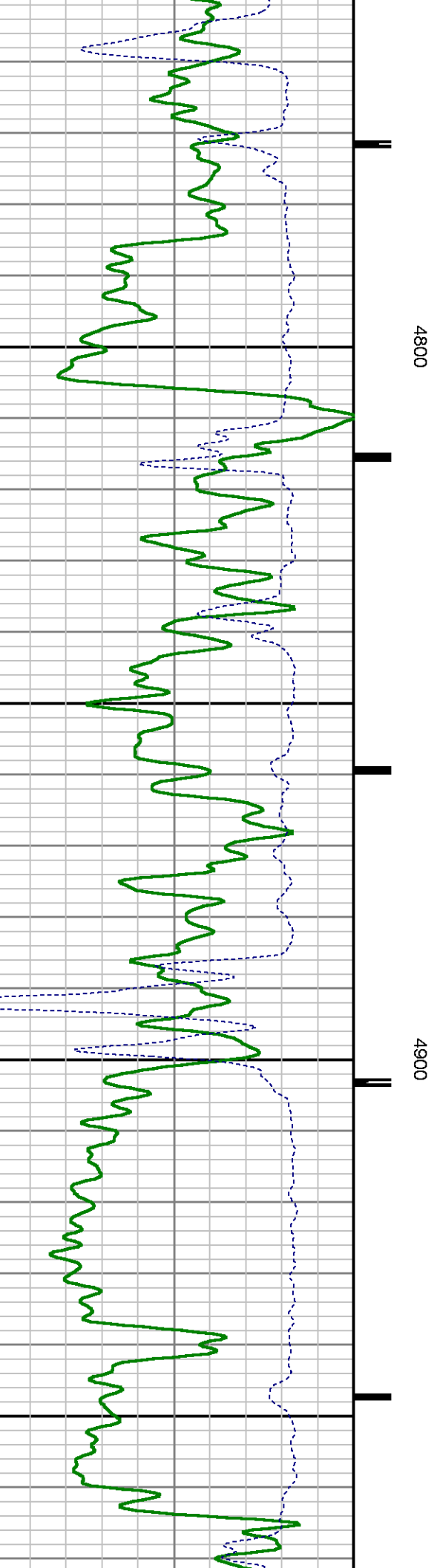
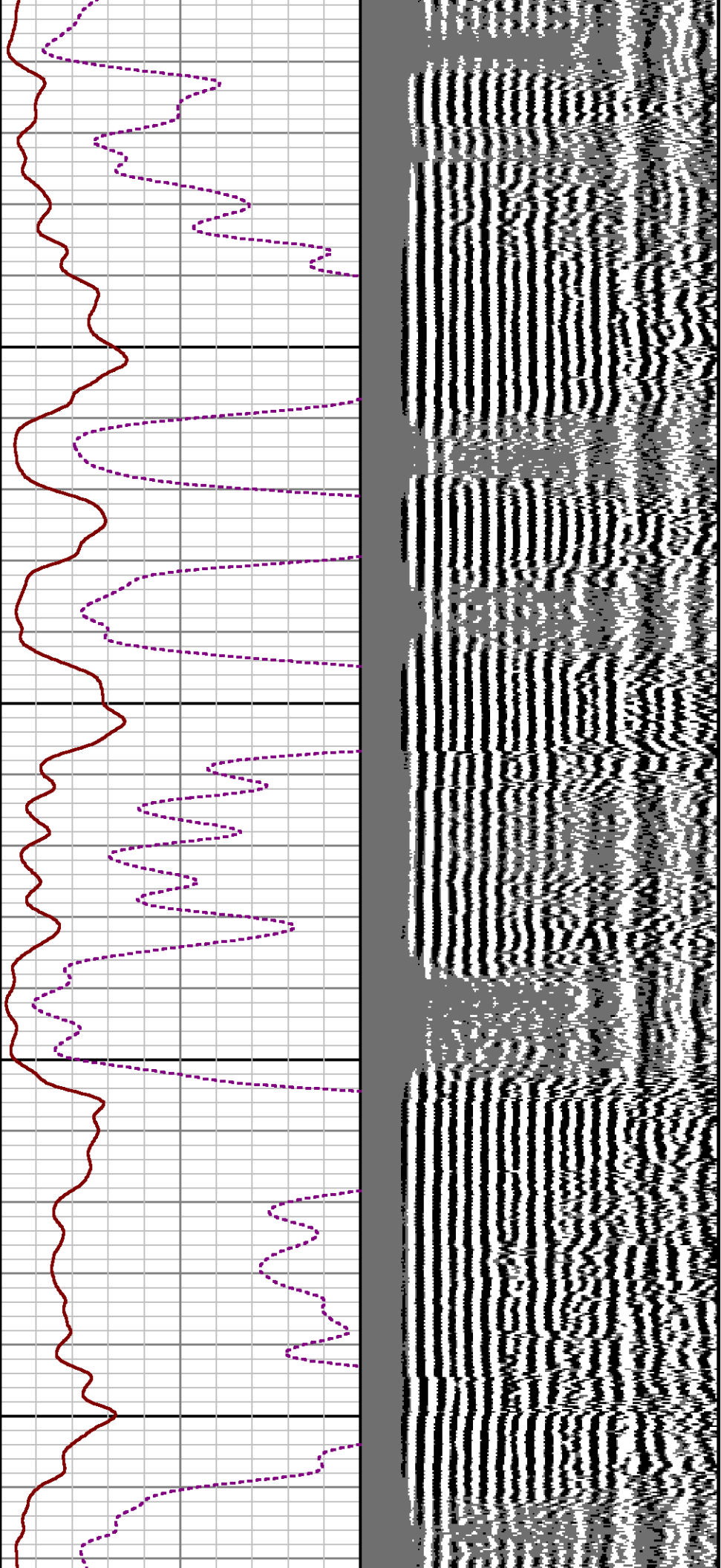
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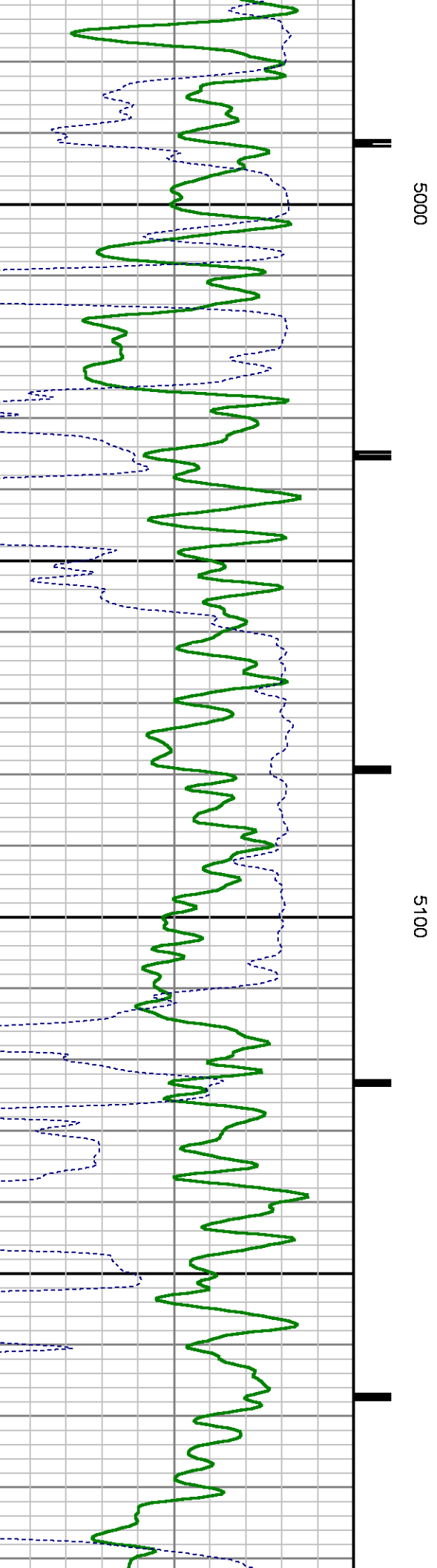
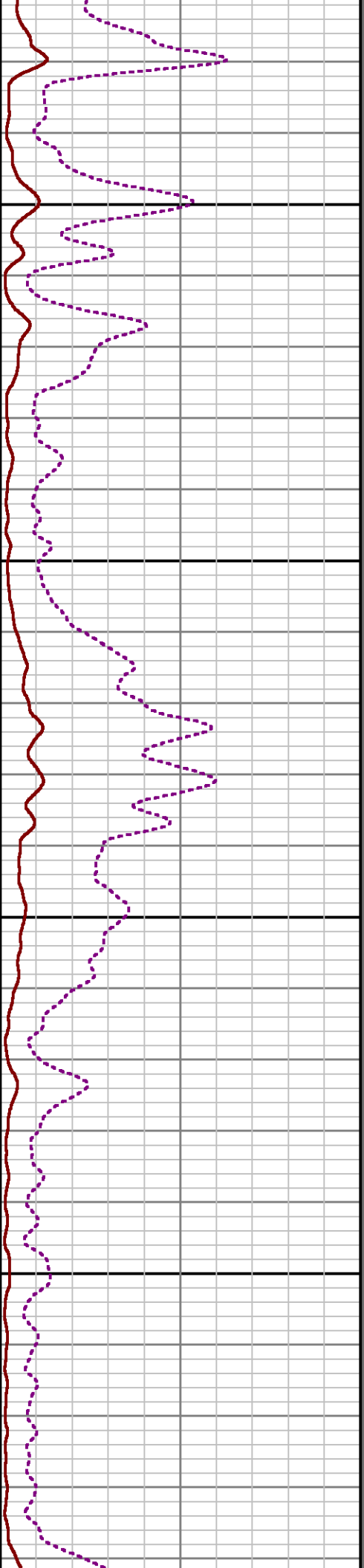
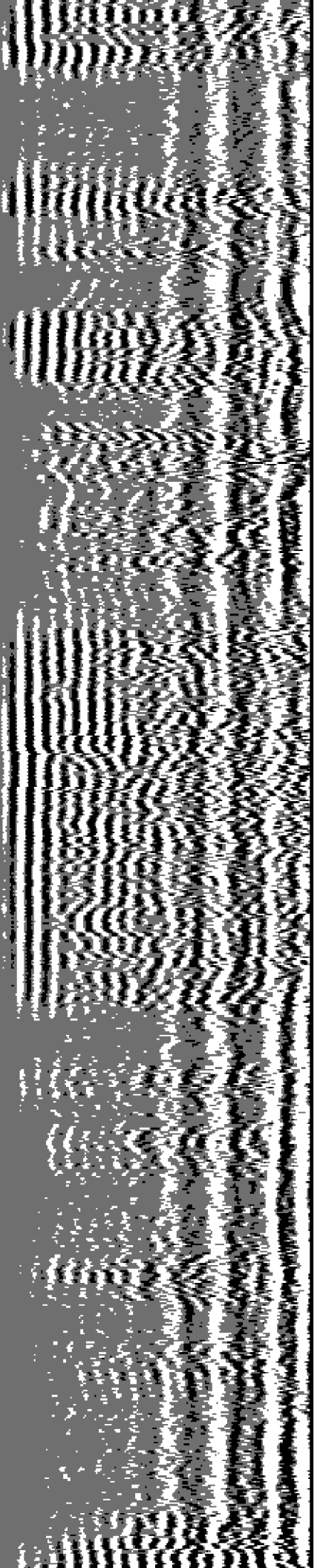
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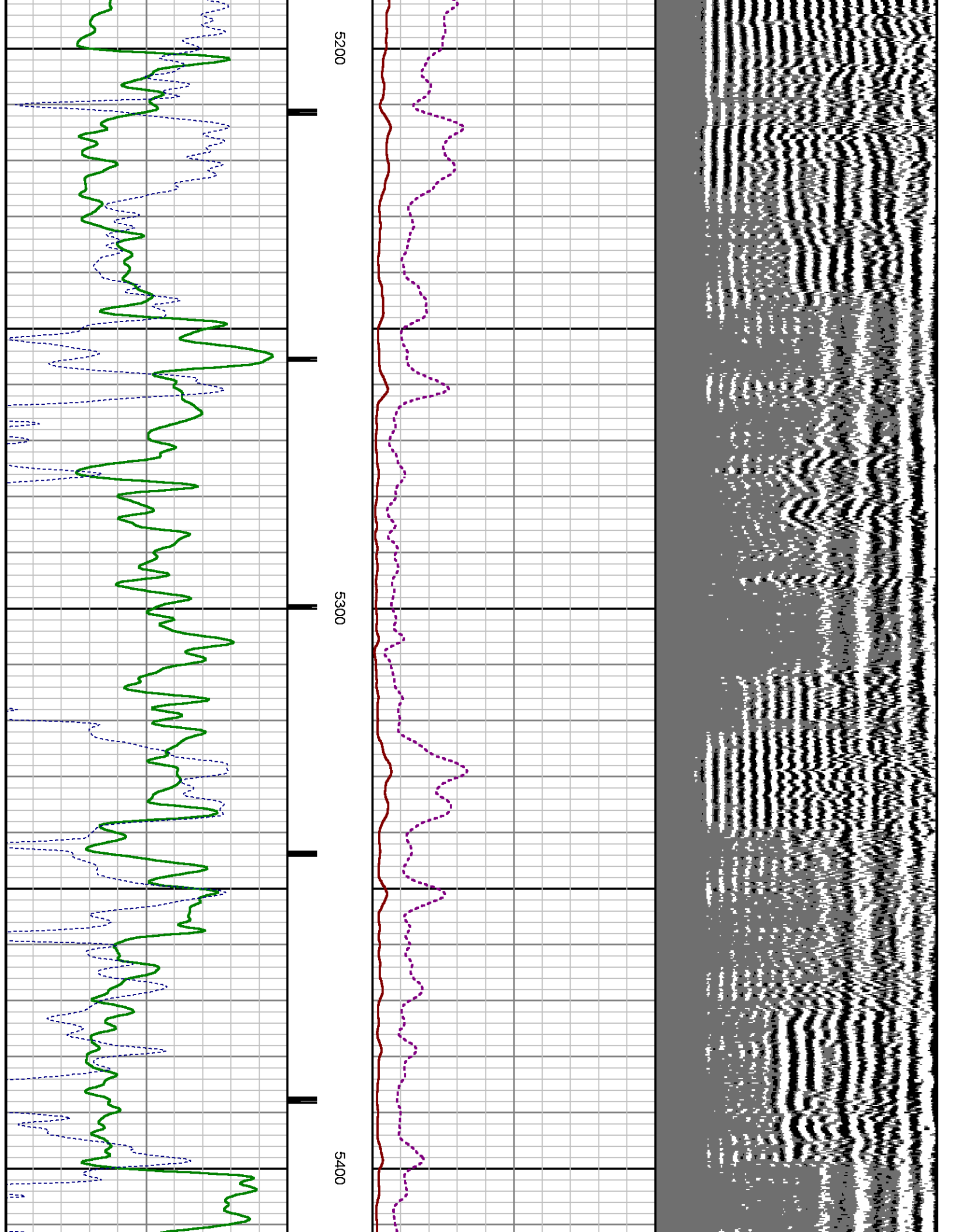


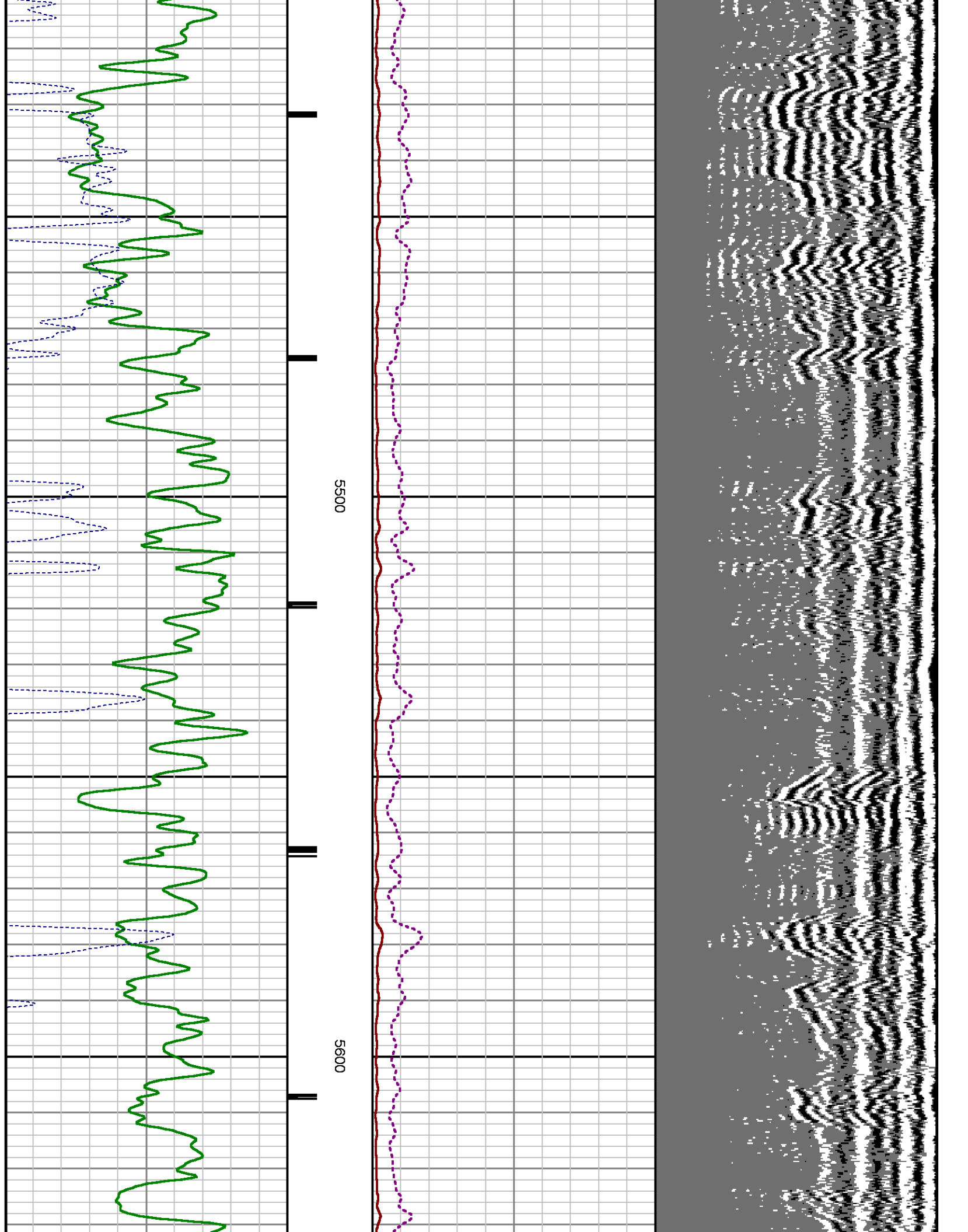


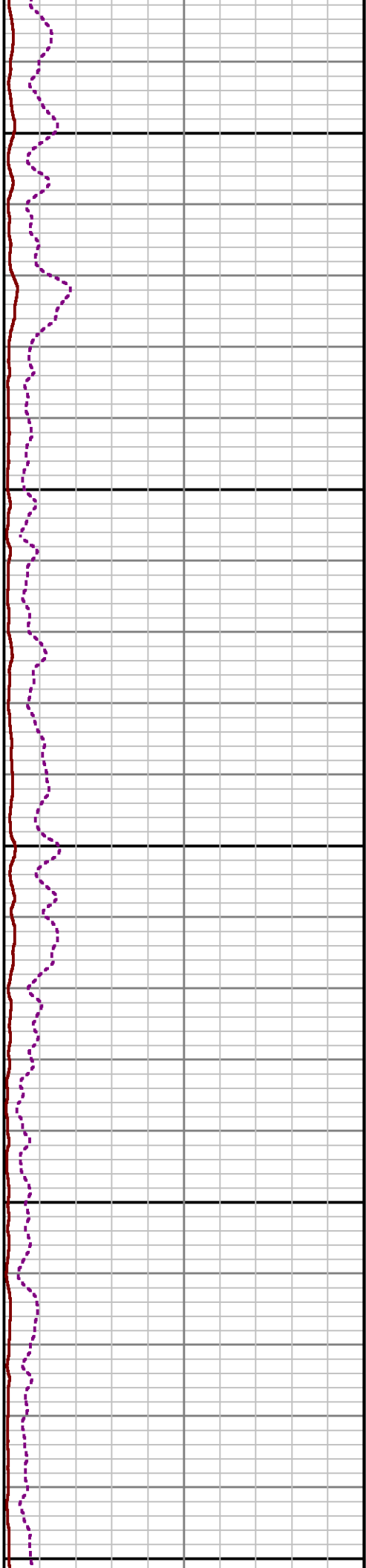
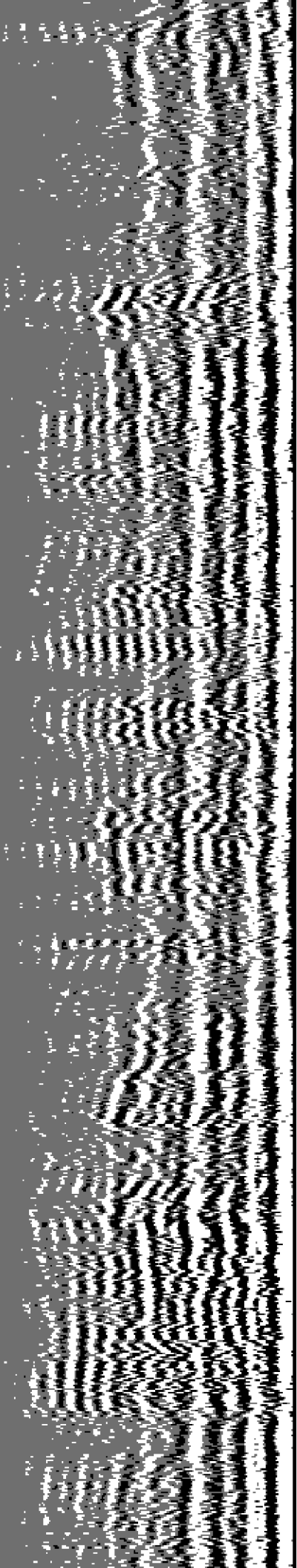






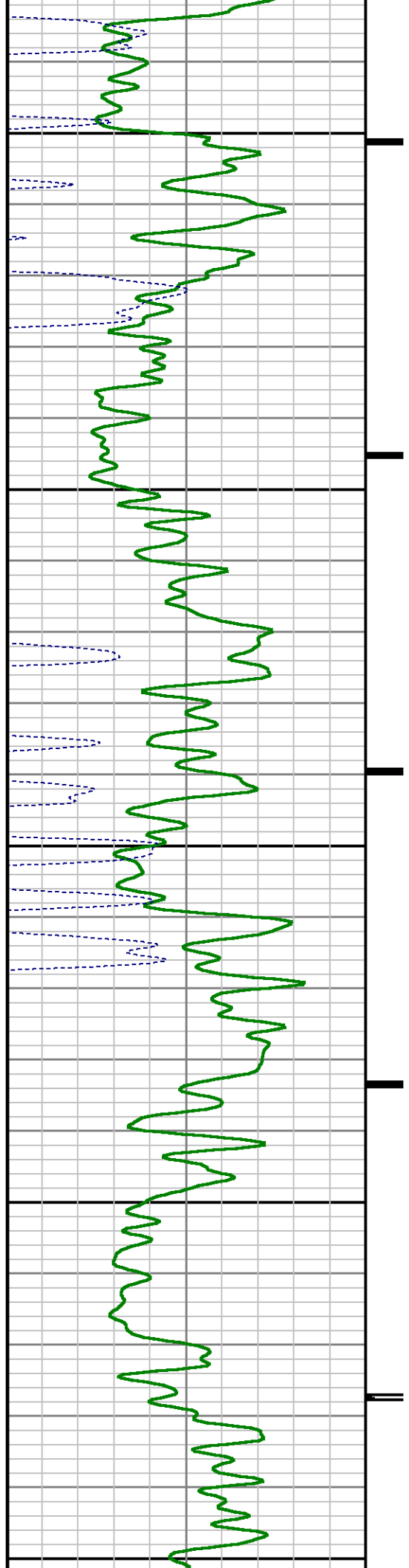


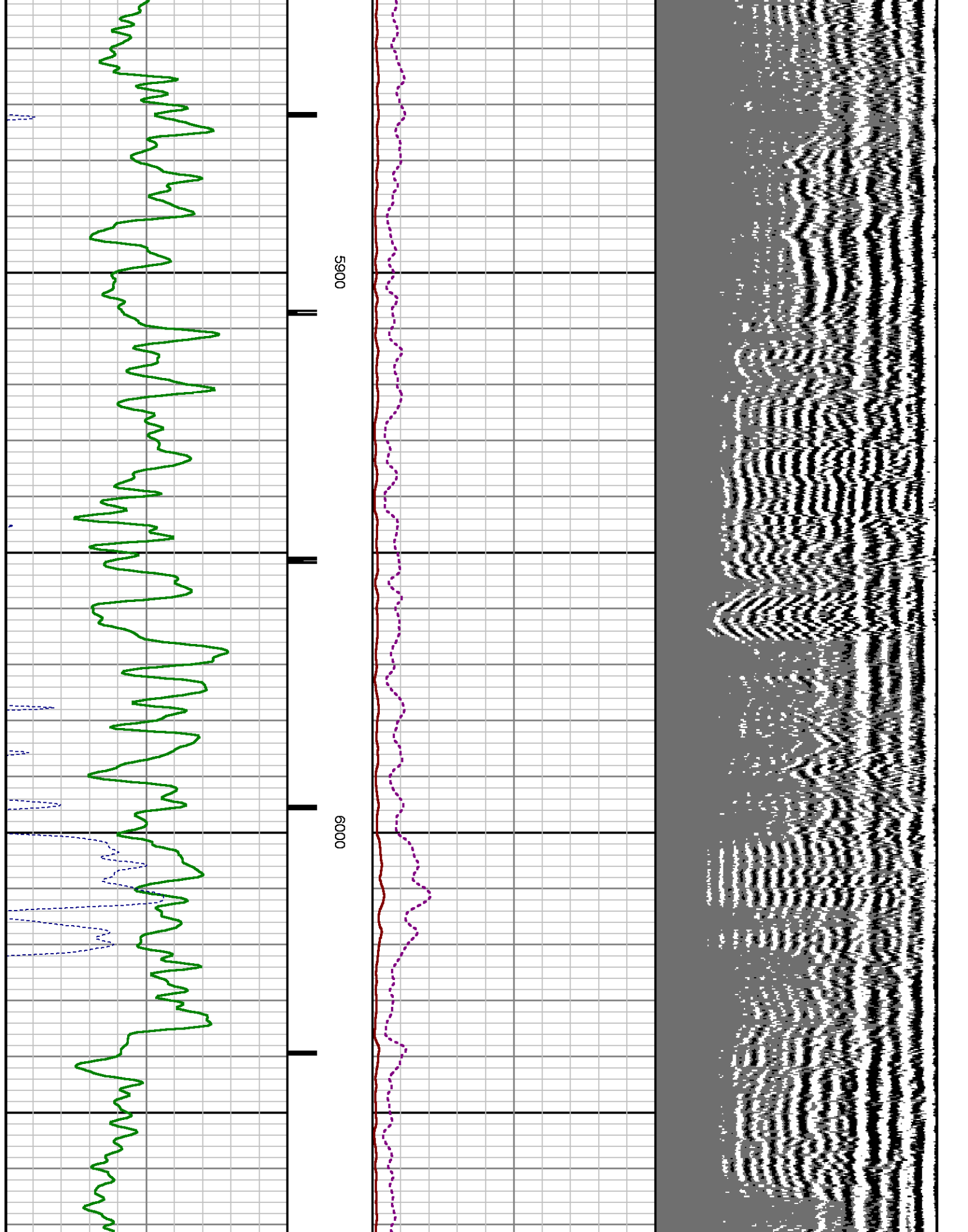


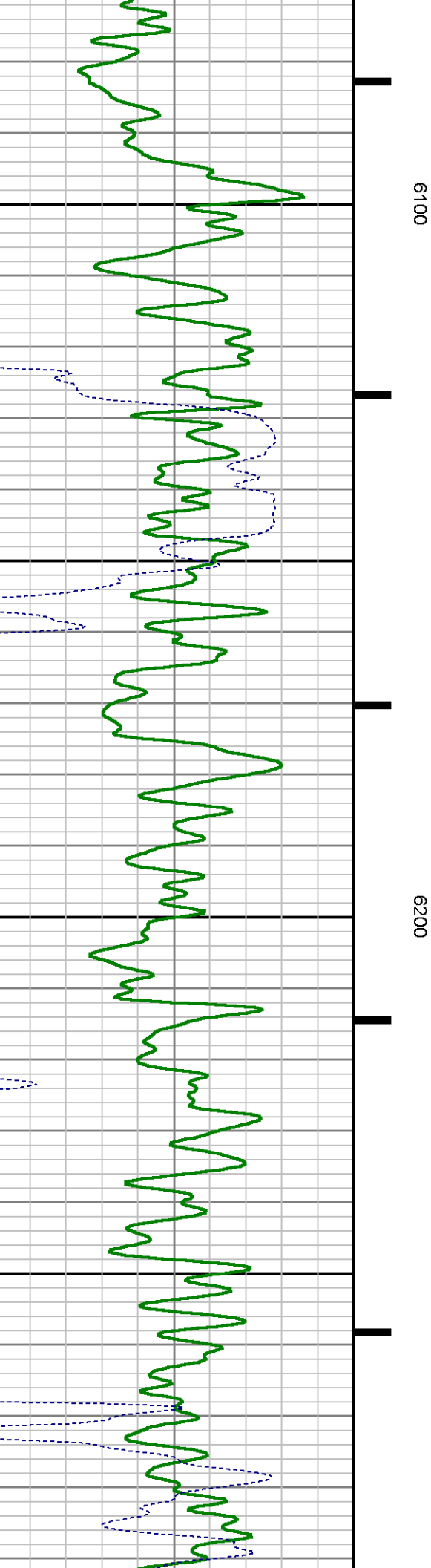
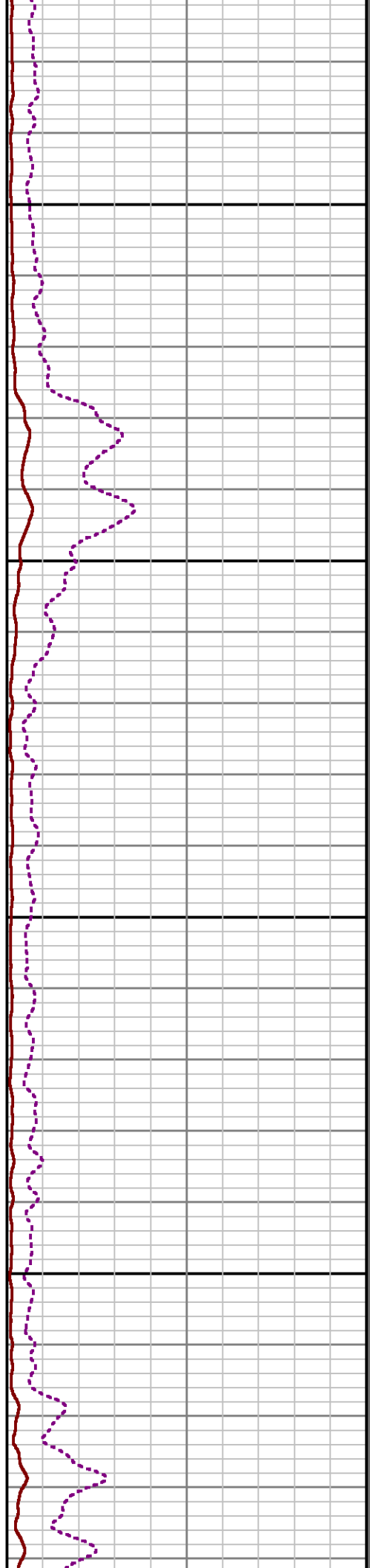
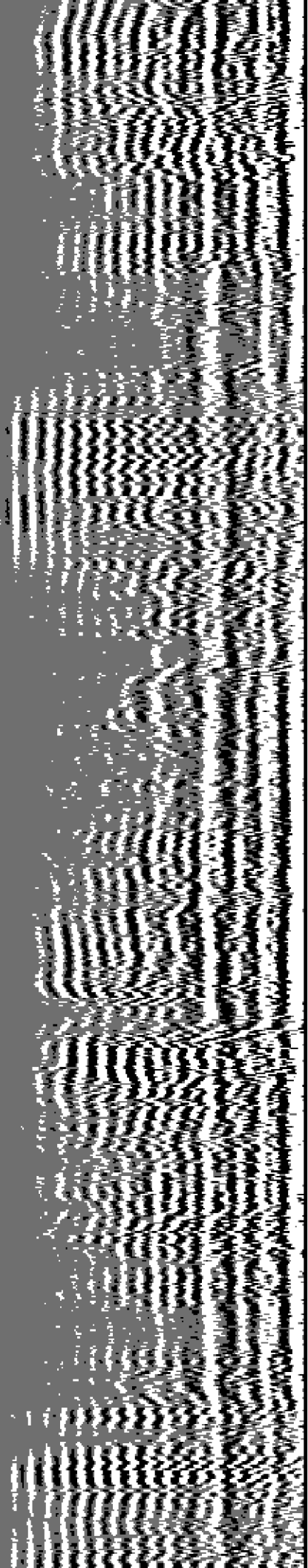


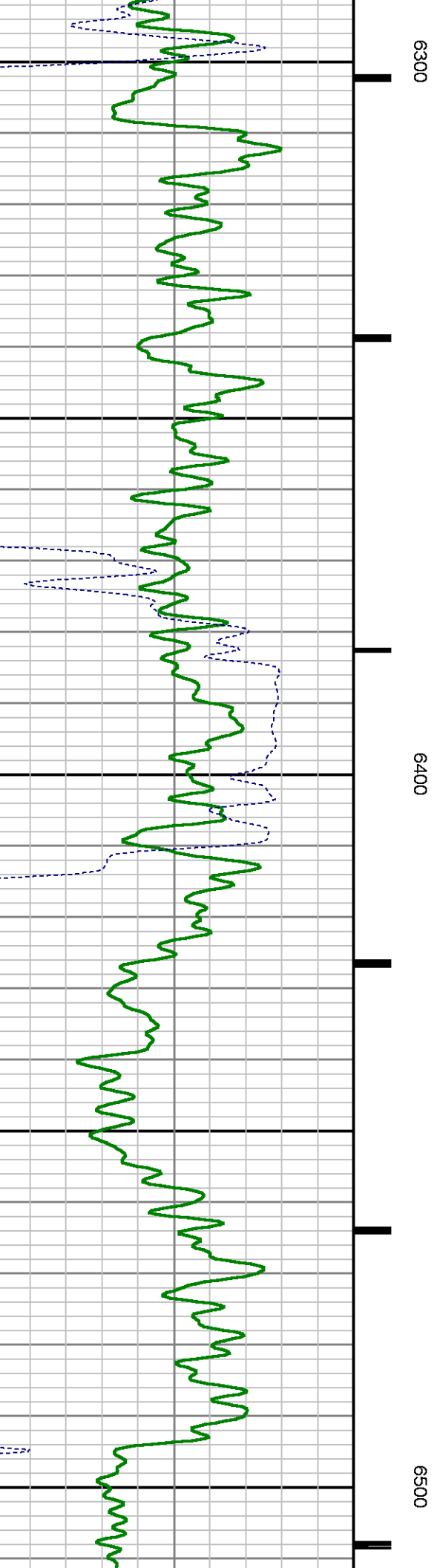
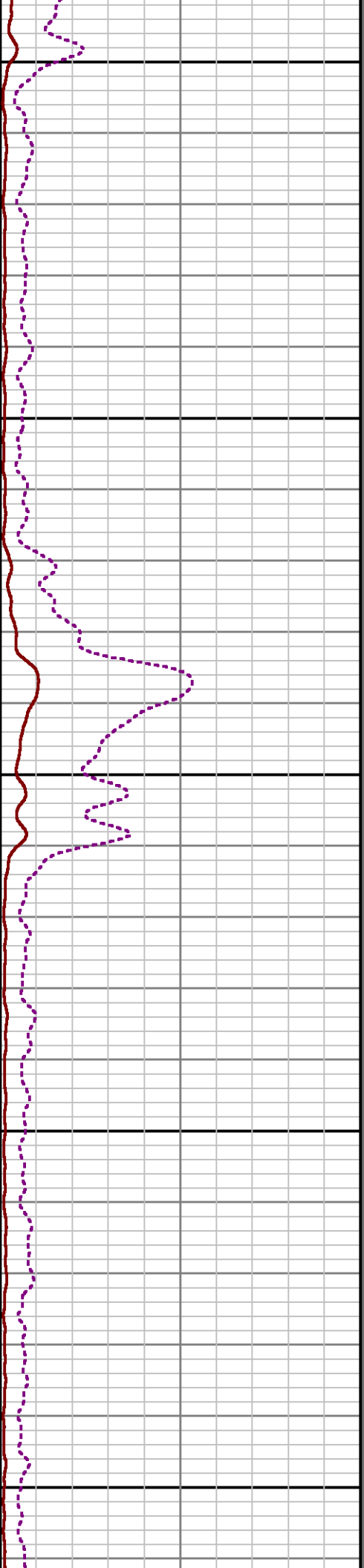
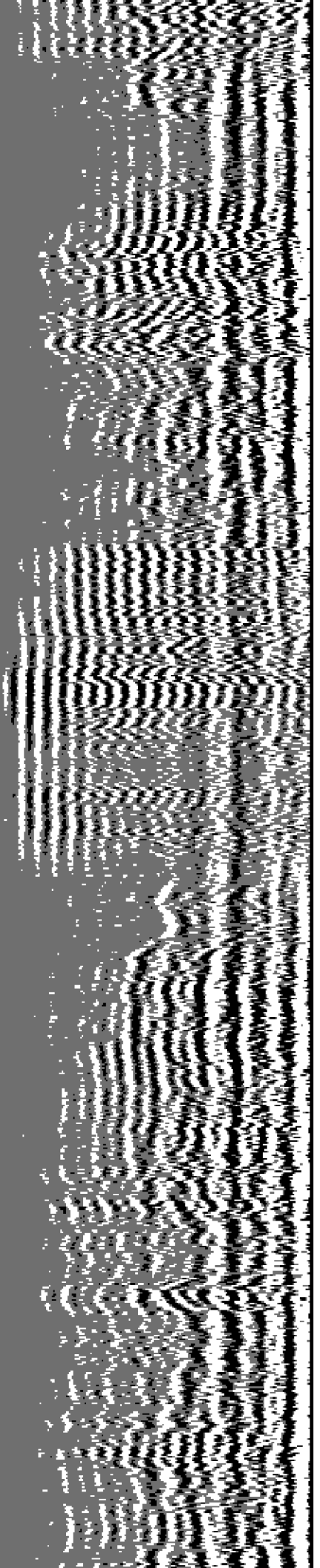
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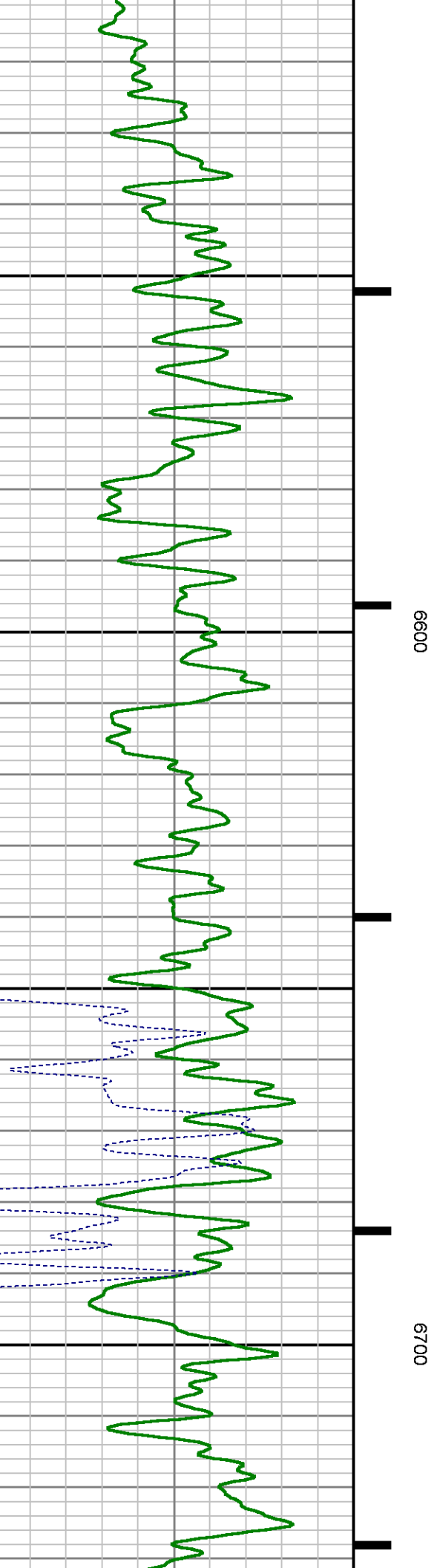
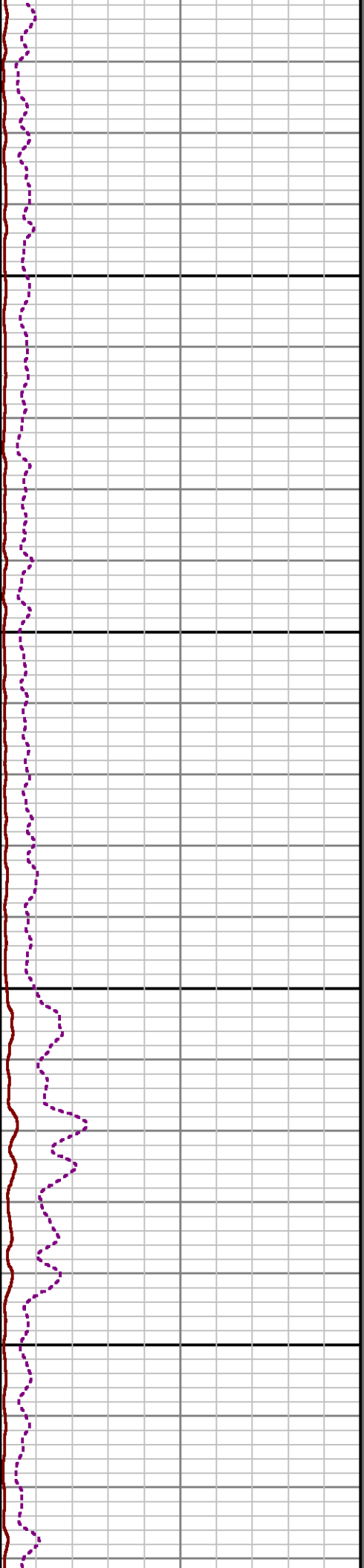
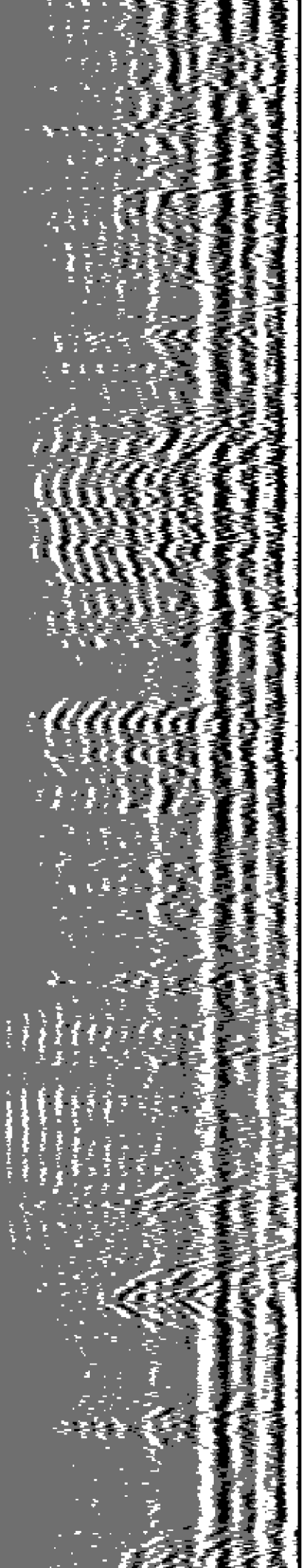
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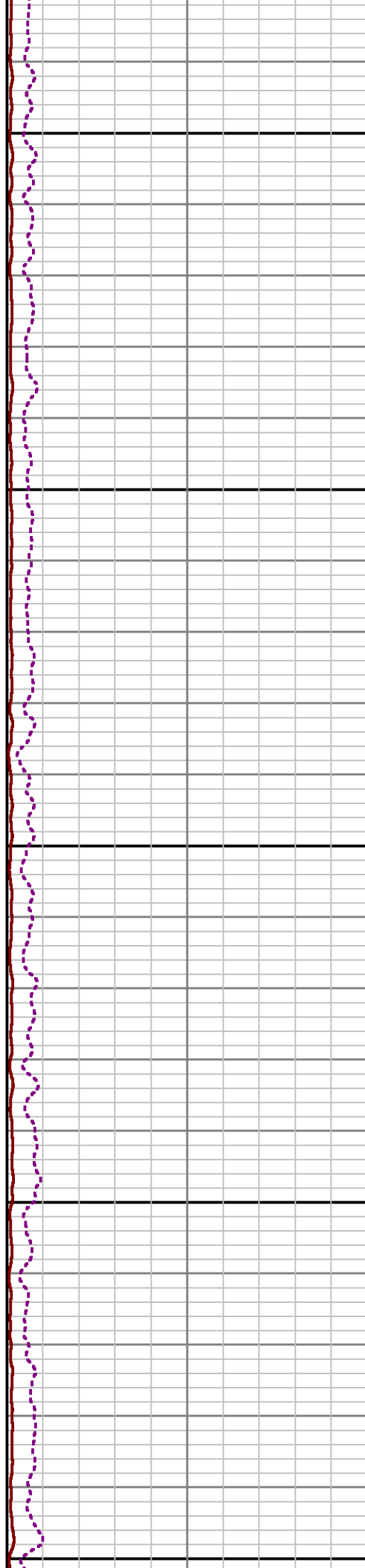
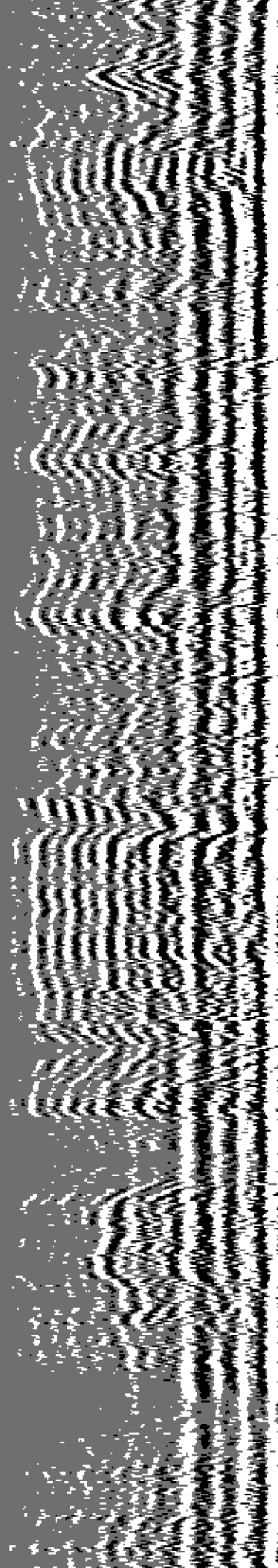






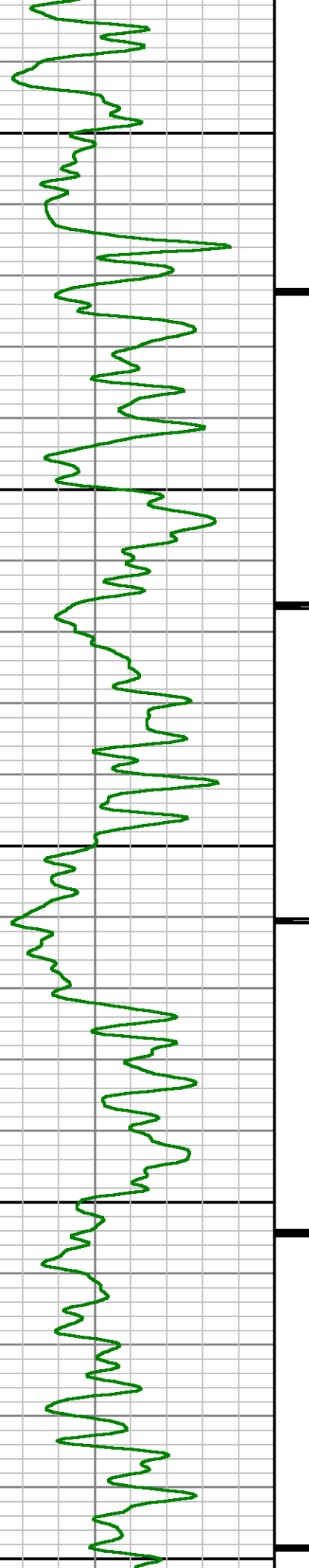


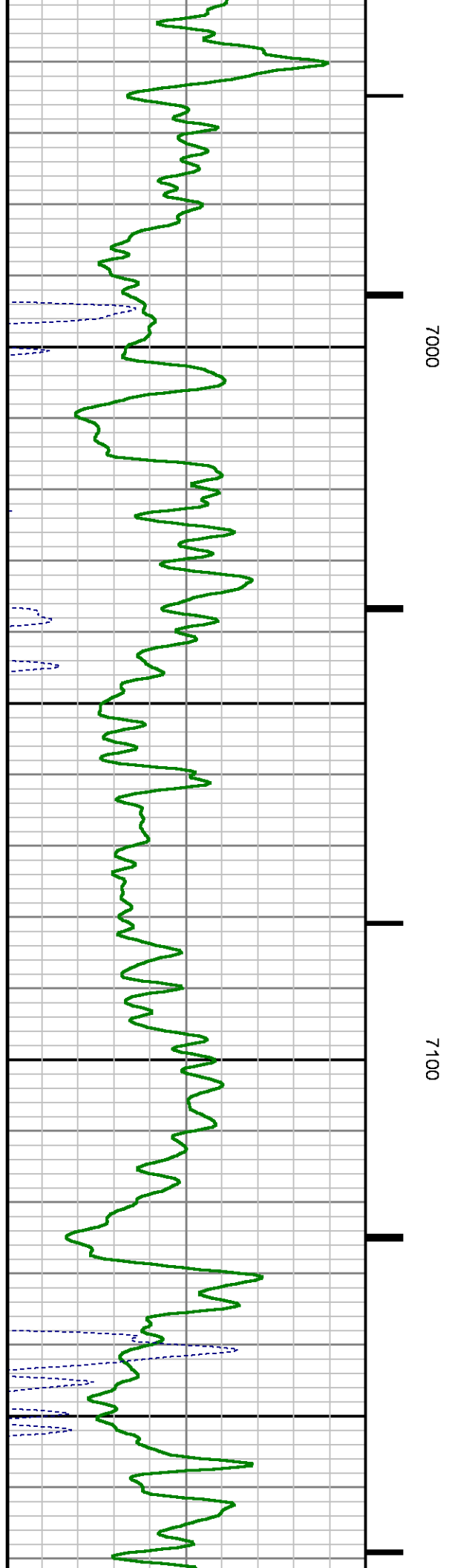
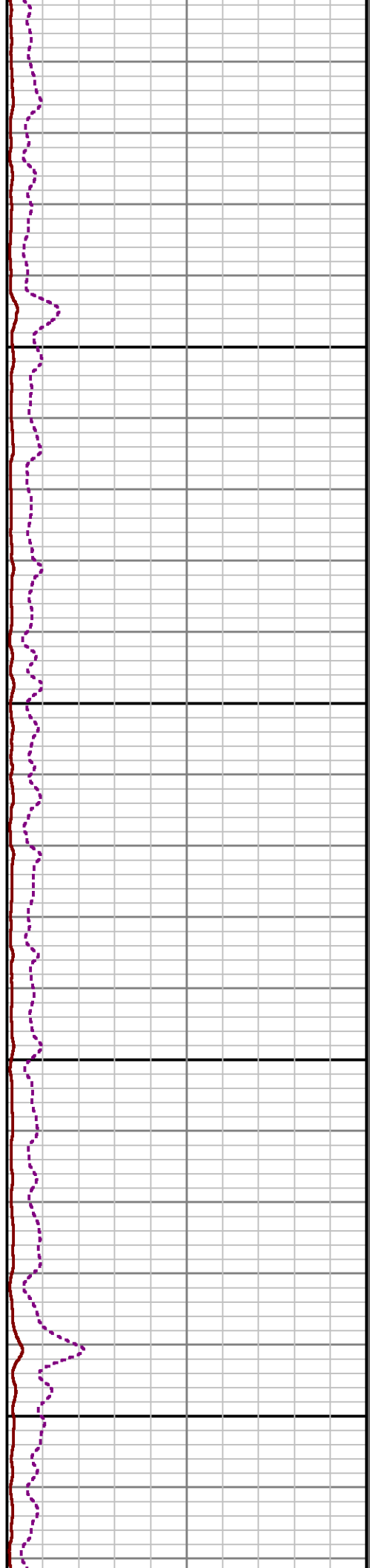
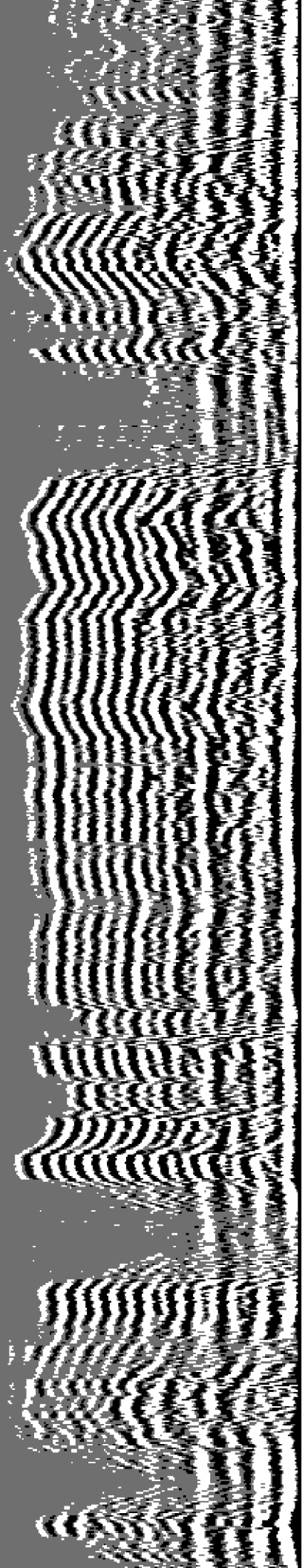


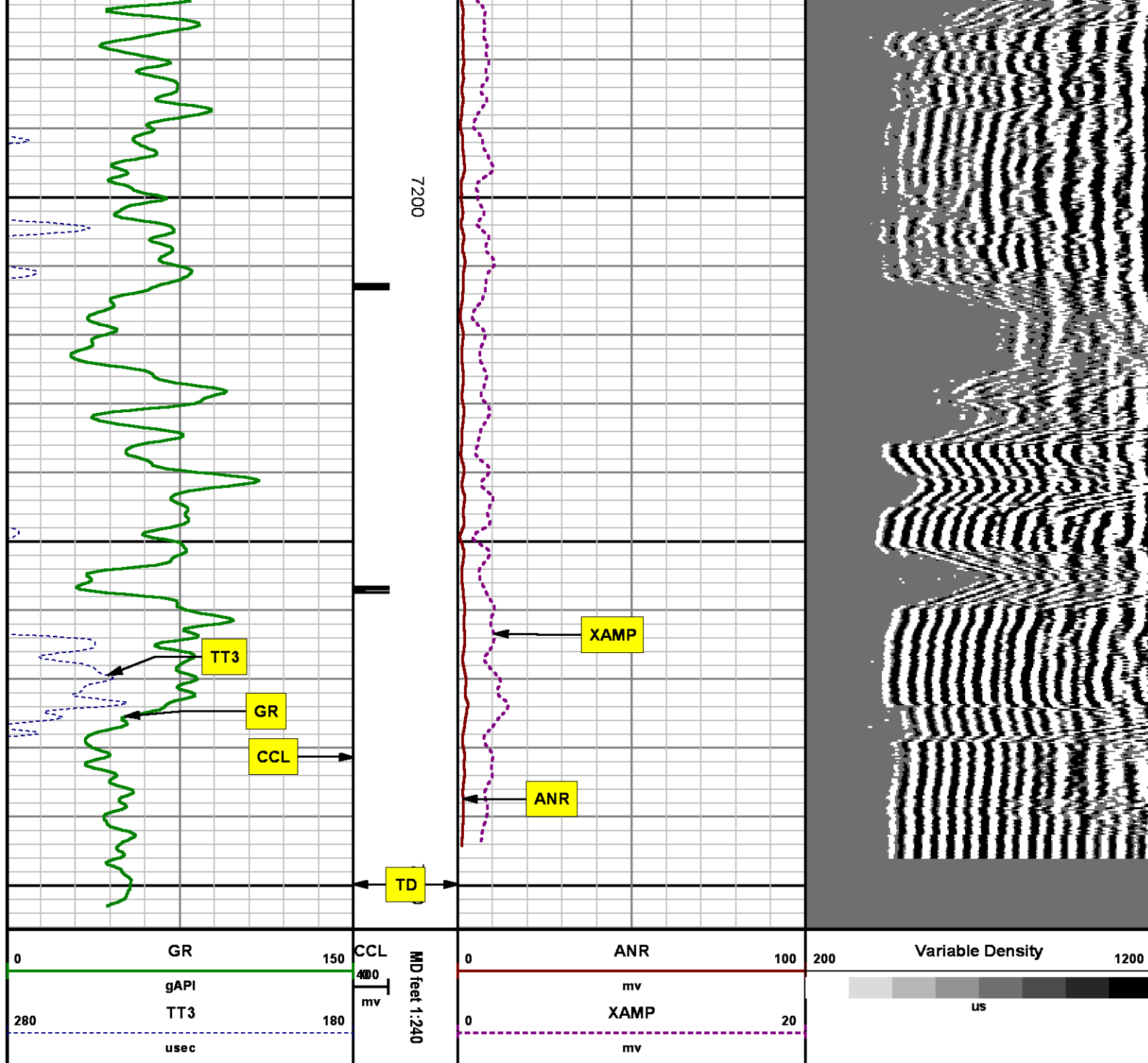


00800

6900







SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	28.625	7306.500
RAL	Amp Gate Start Near	195.000	usec	28.625	7306.500
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RAL	Amp Gate Width Far	25.000	usec	28.625	7306.500
RAL	Amp Gate Width Near	25.000	usec	28.625	7306.500
RAL	Amp Gate Width Radial	25.000	usec	28.625	7306.500
RAL	casing od	4.500	inches	28.625	7306.500
RAL	casing wt	11.600	lbm/ft	28.625	7306.500
RAL	FB Start Far	291.900	usec	28.625	7306.500
RAL	FB Start Near	180.000	usec	28.625	7306.500
RAL	FB Start Radial	180.000	usec	28.625	7306.500
RAL	FB Thresh Far	10.000	mv	28.625	7306.500
RAL	FB Thresh Near	4.000	mv	28.625	7306.500
RAL	FB Thresh Radial	4.000	mv	28.625	7306.500
RAL	Fluid Travel Time	200.000	usec/ft	28.625	7306.187

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5					
1355XA	-5.620	CCL							
1355XA	-1.500	GR							
1355XA	0.000	TEMP							

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

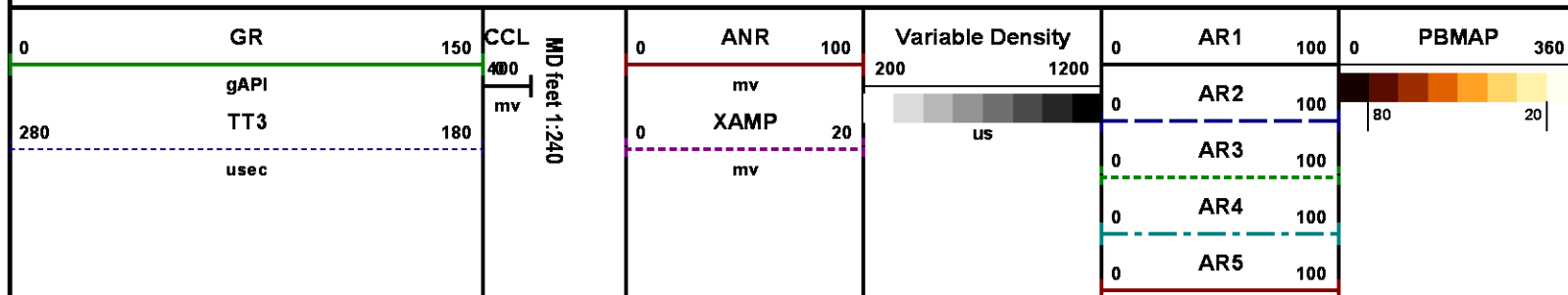
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File Name : d:\welldata\wpx\gm 344-12\rsl344\main.xtf

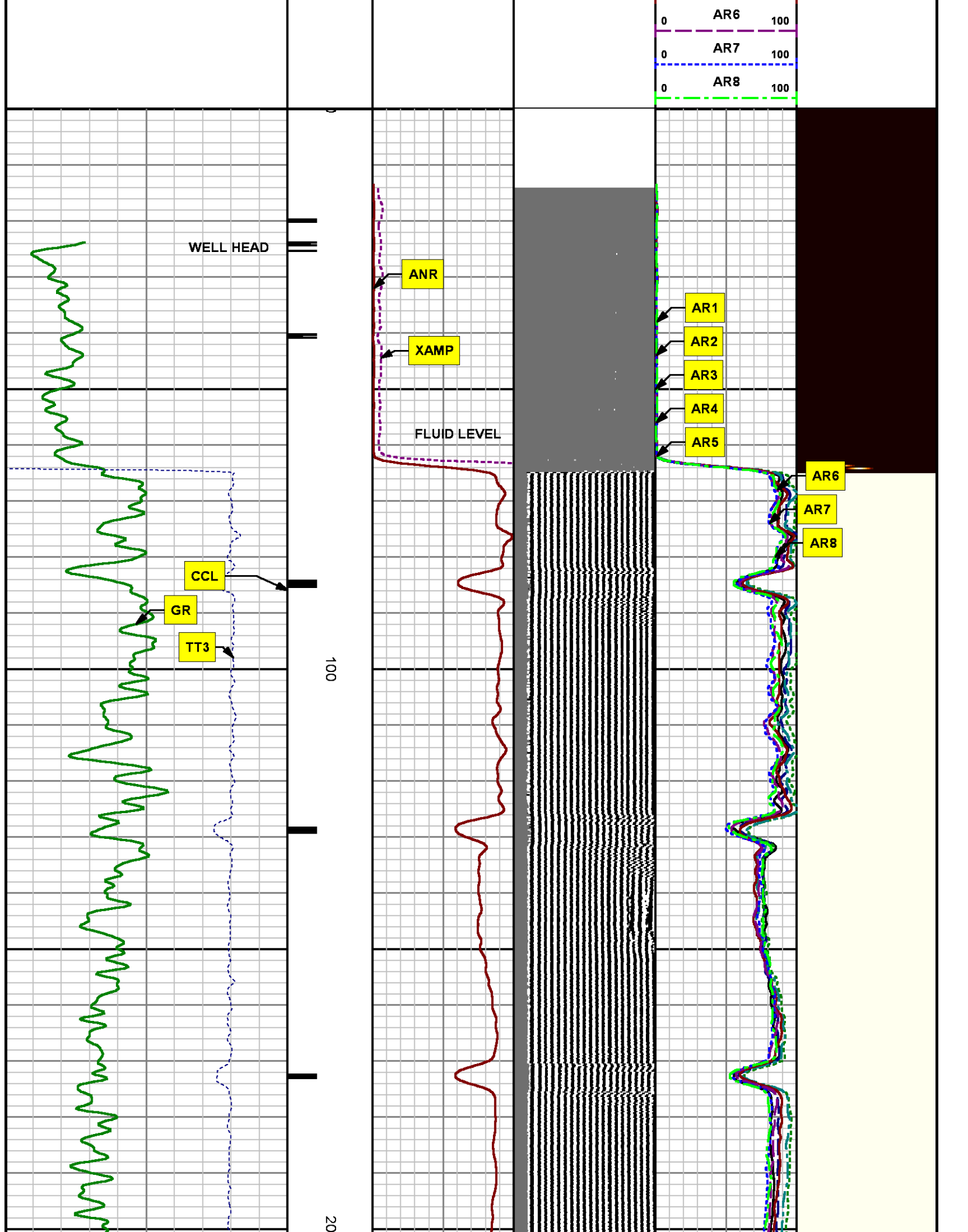
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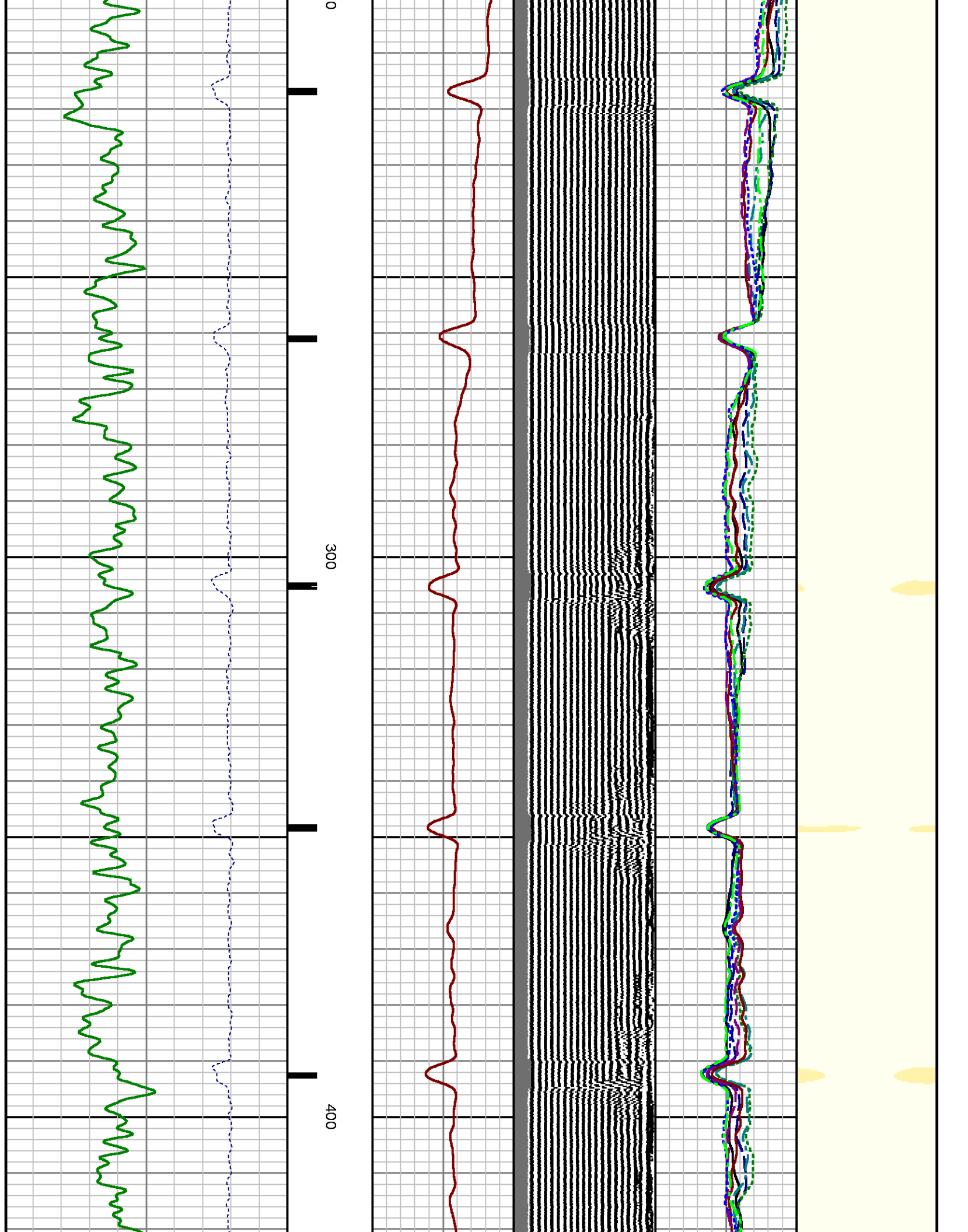
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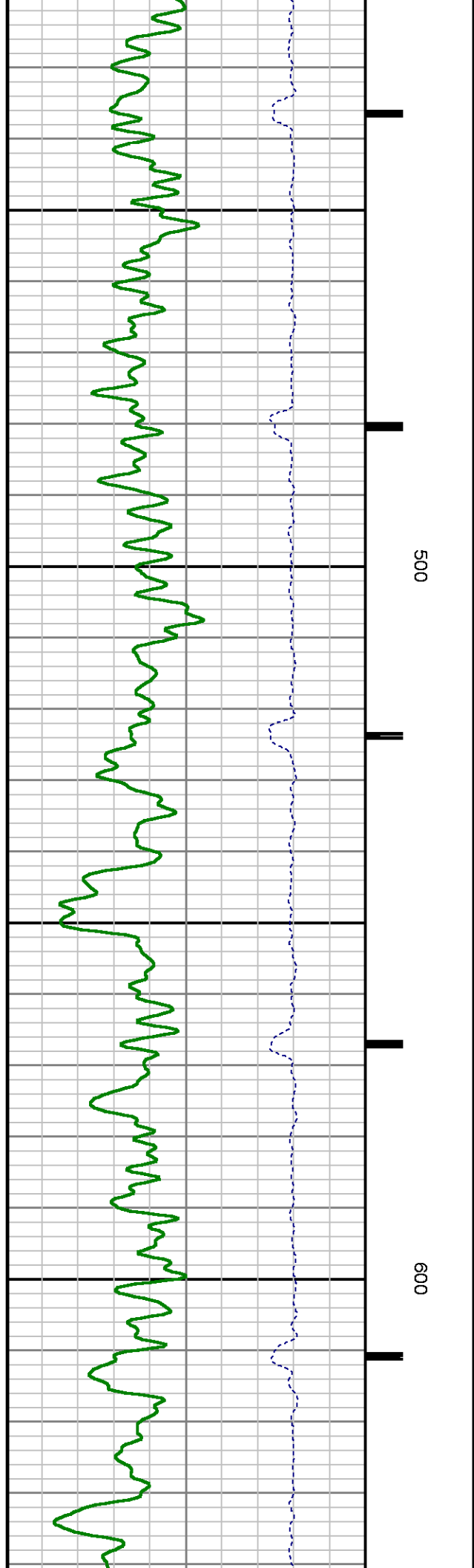
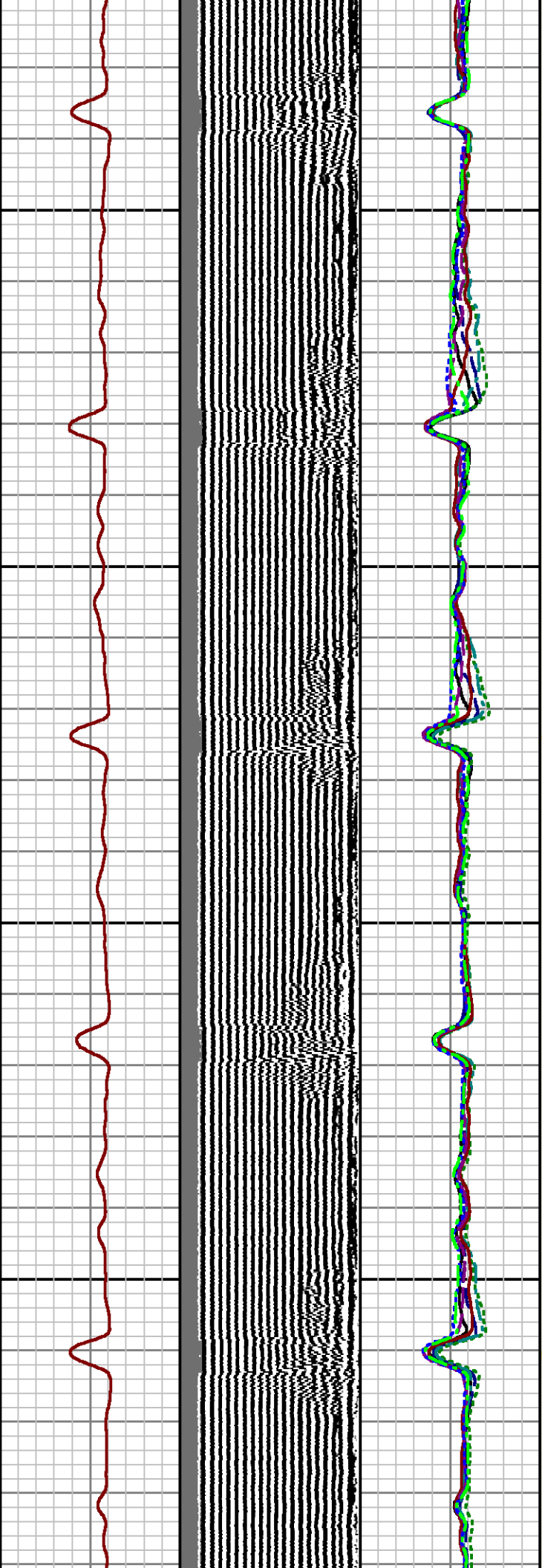
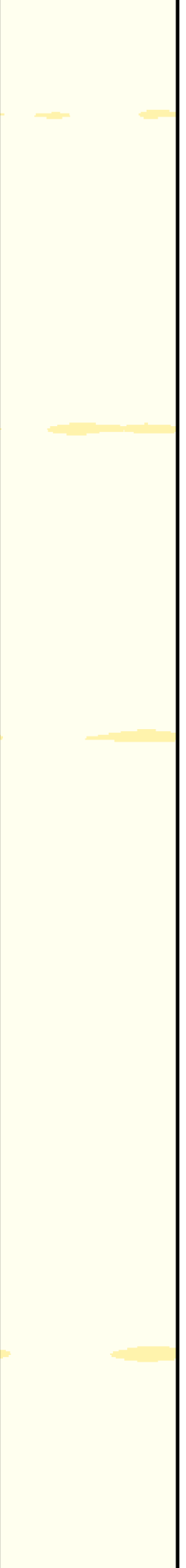
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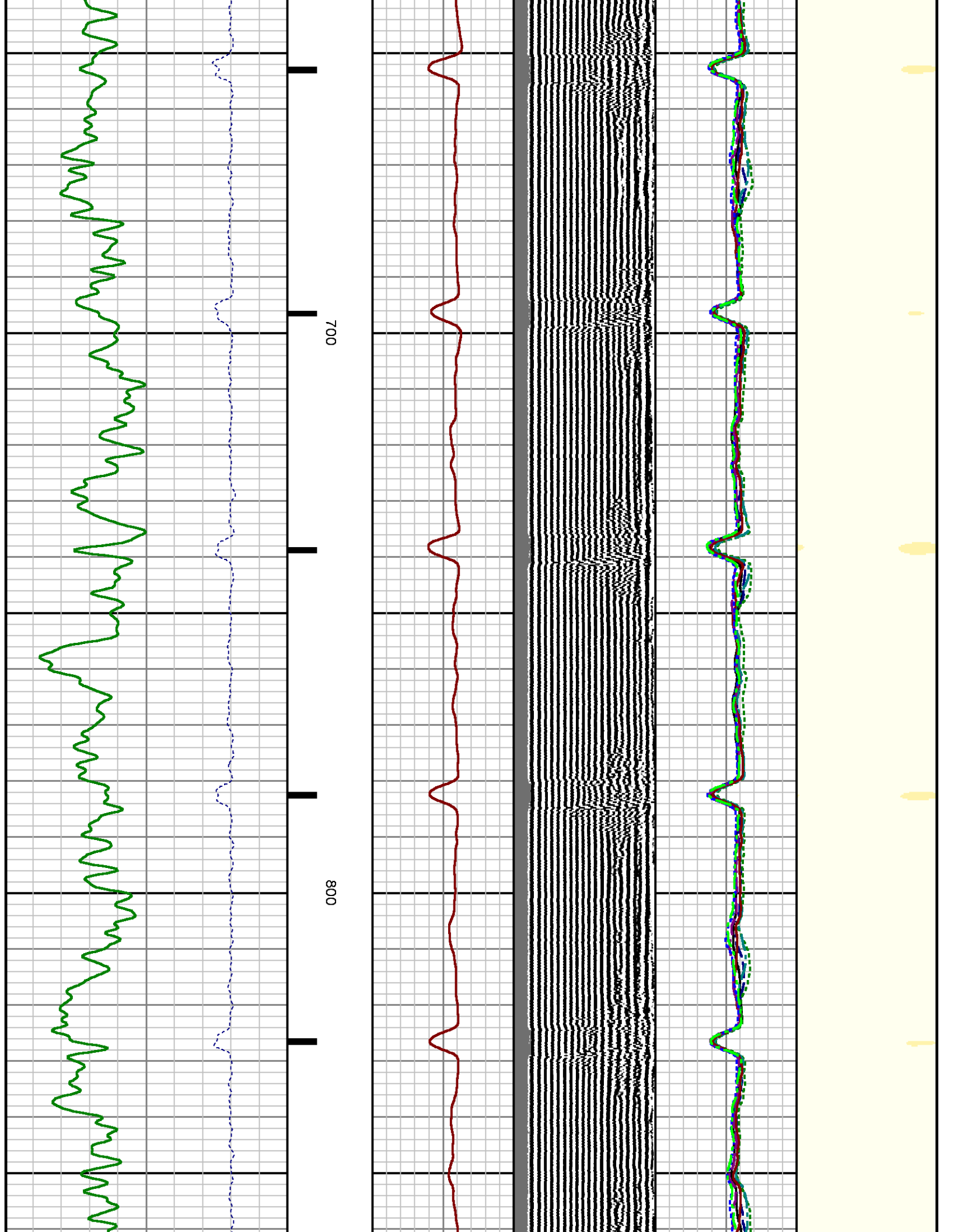


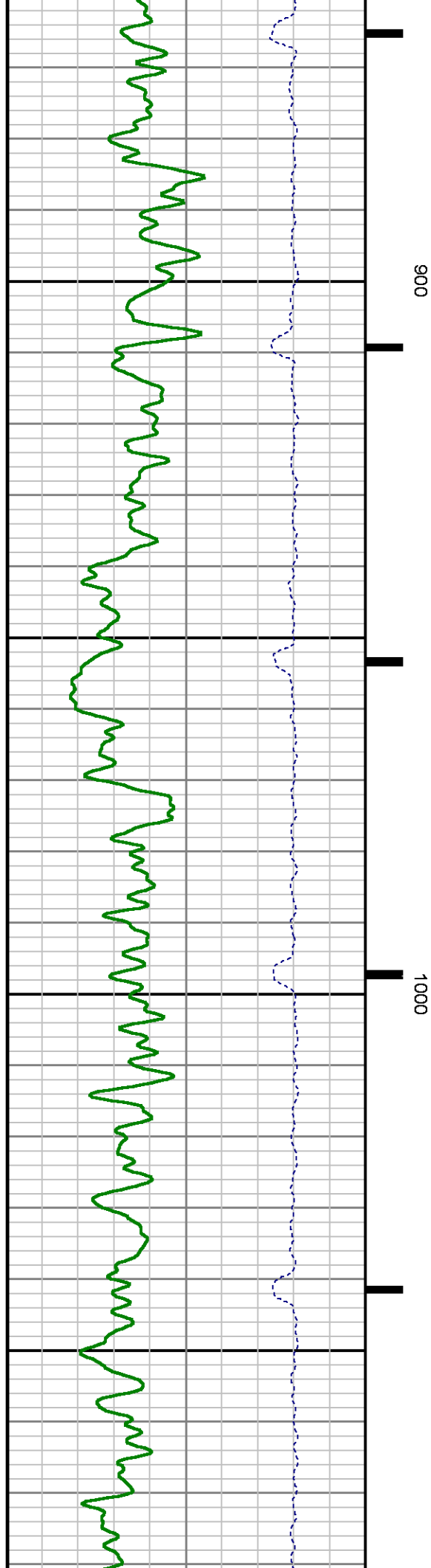
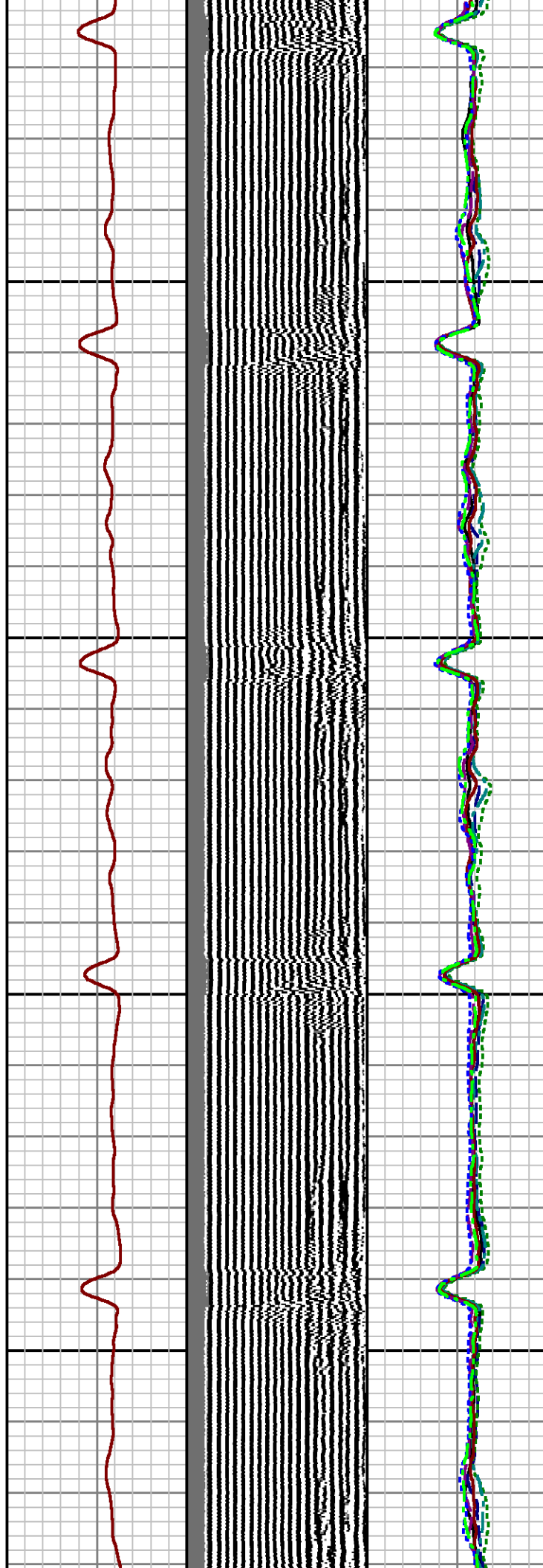
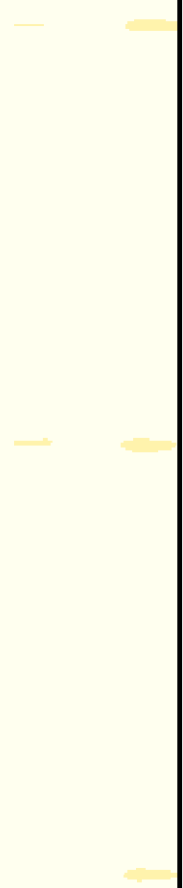
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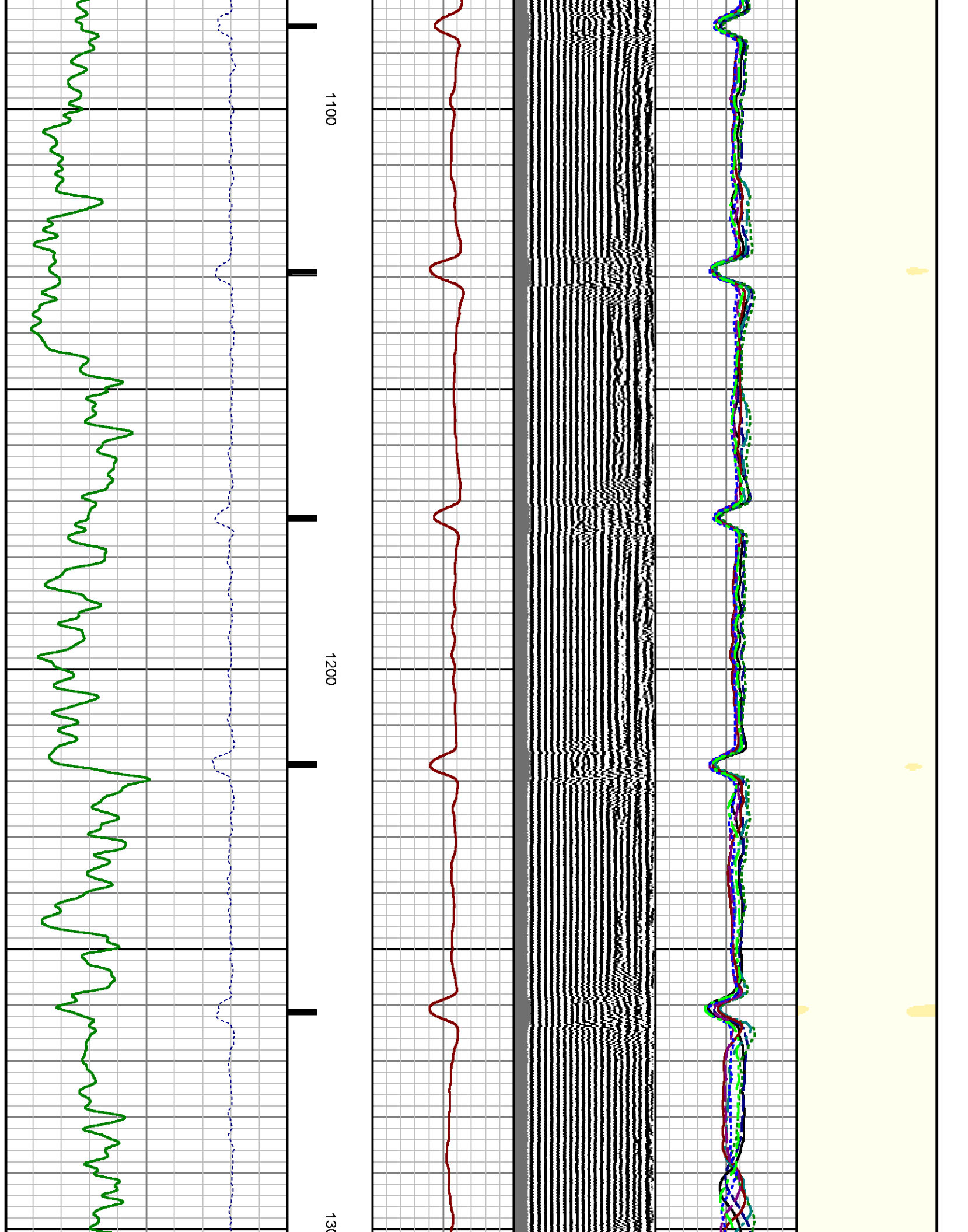


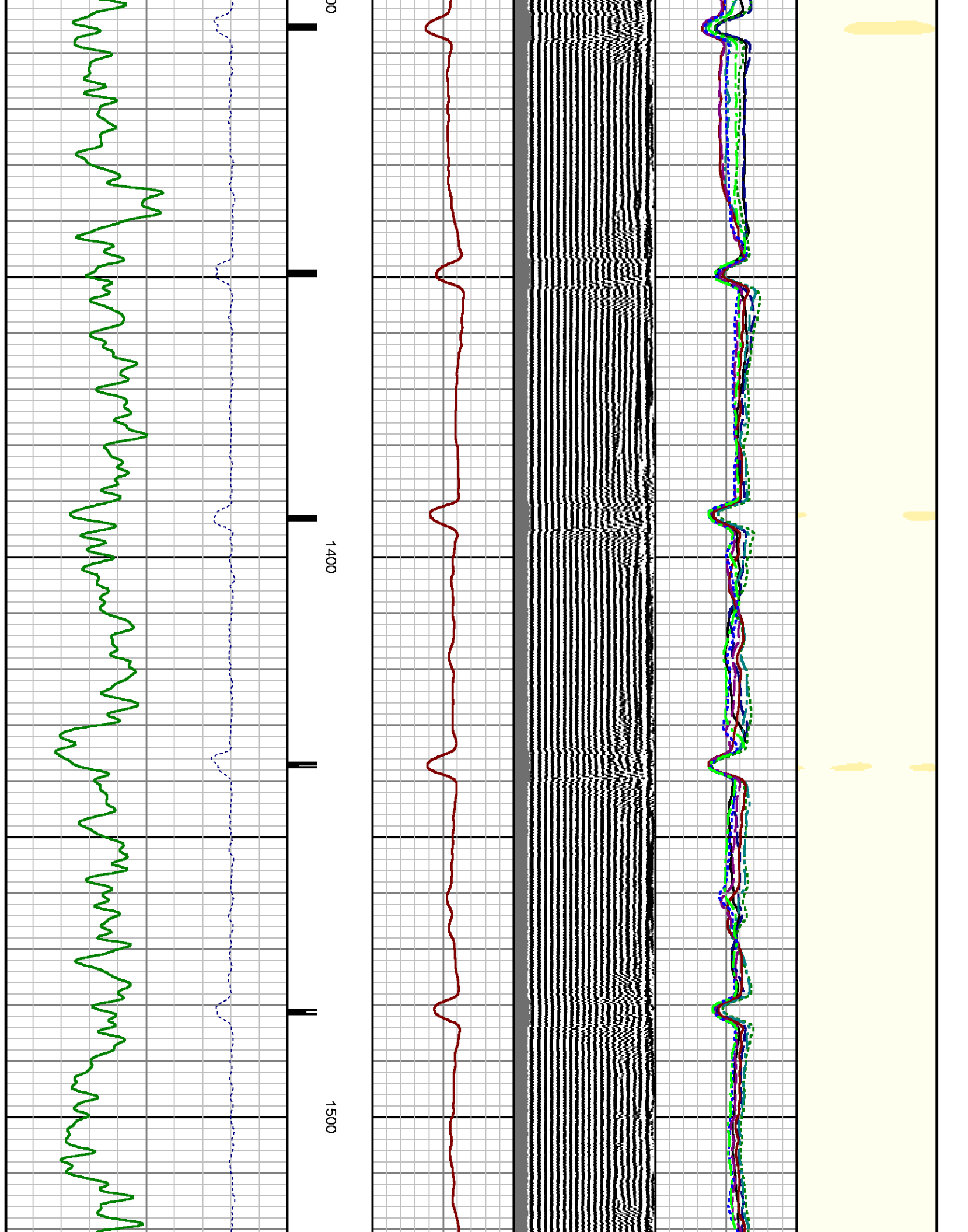


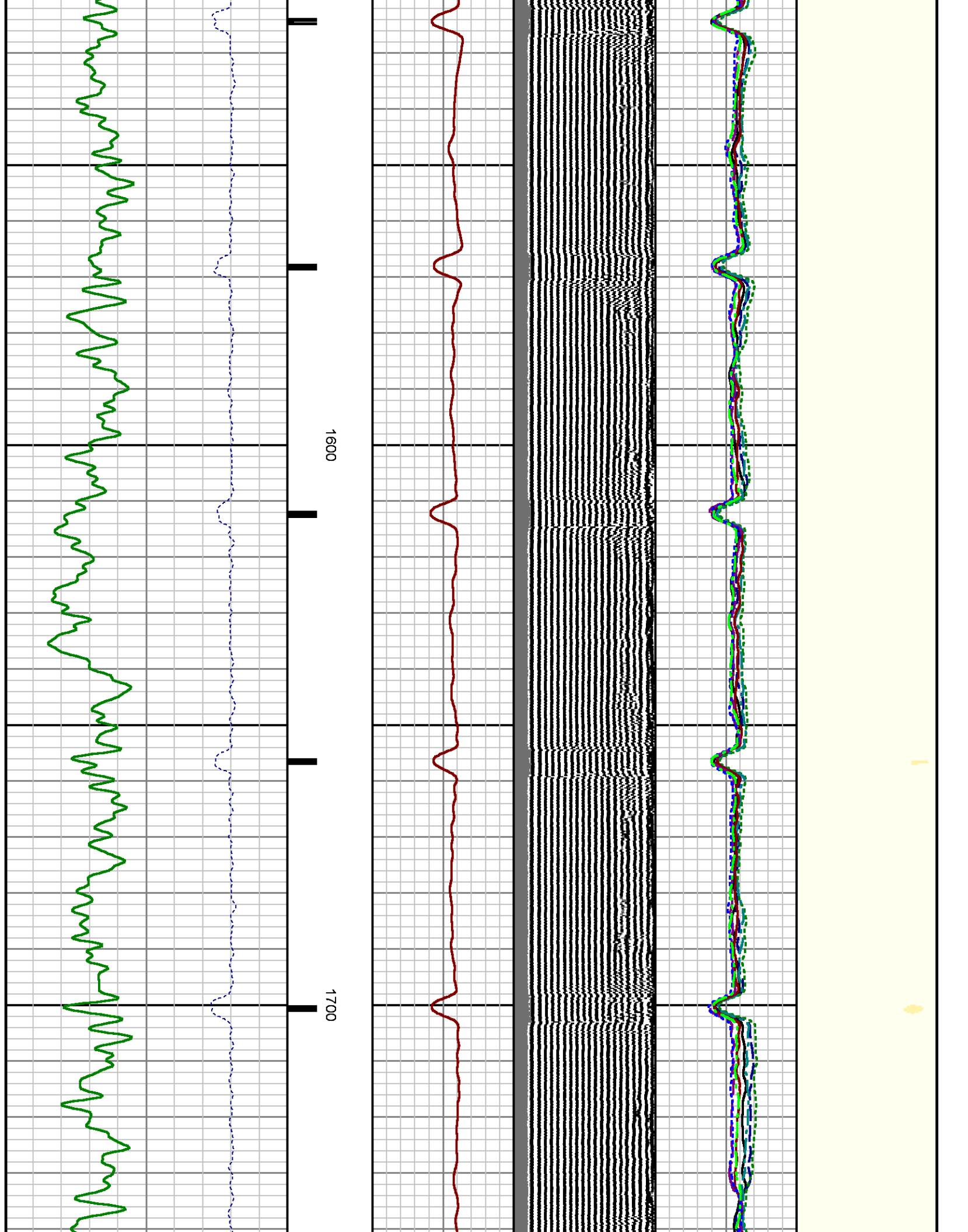


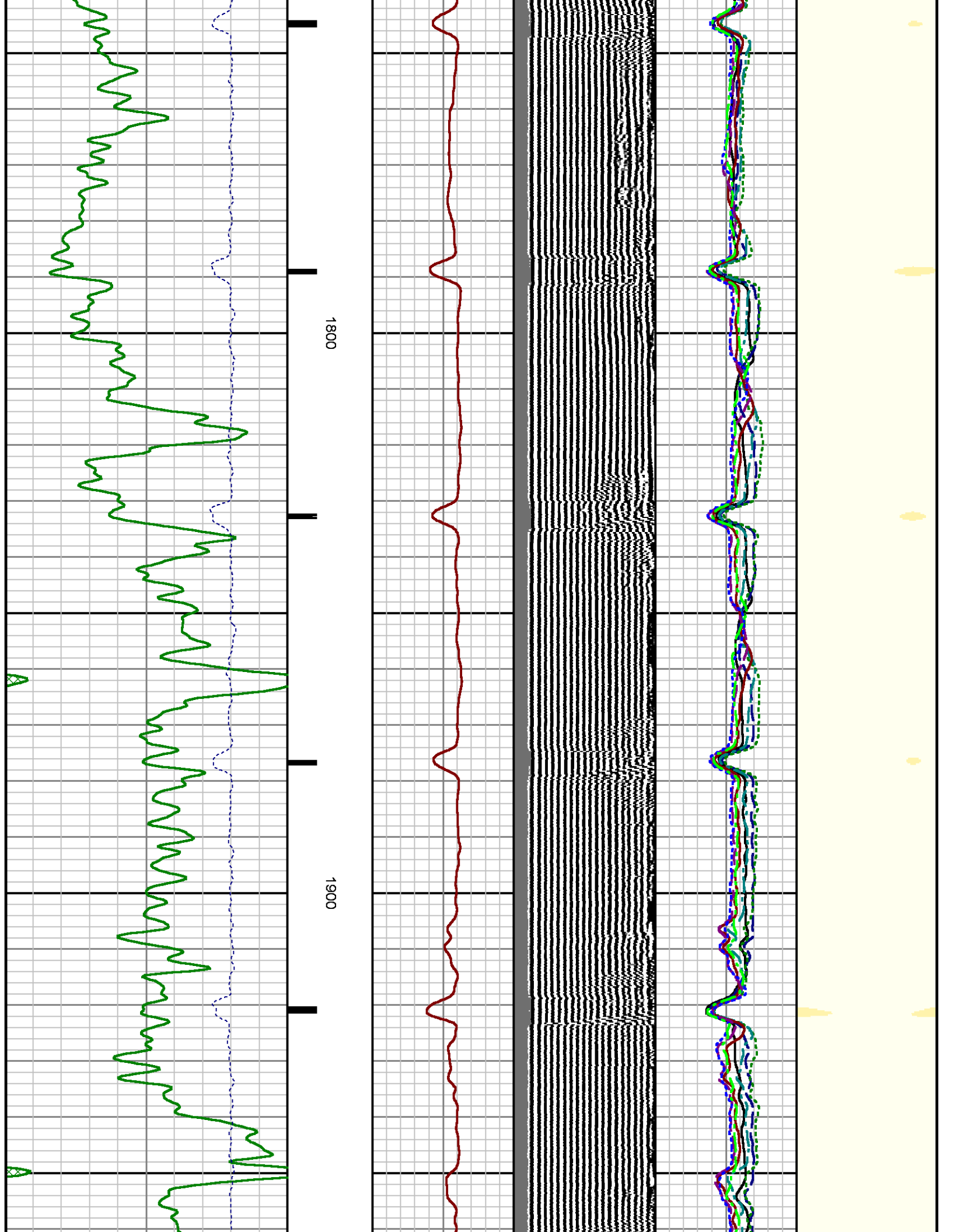


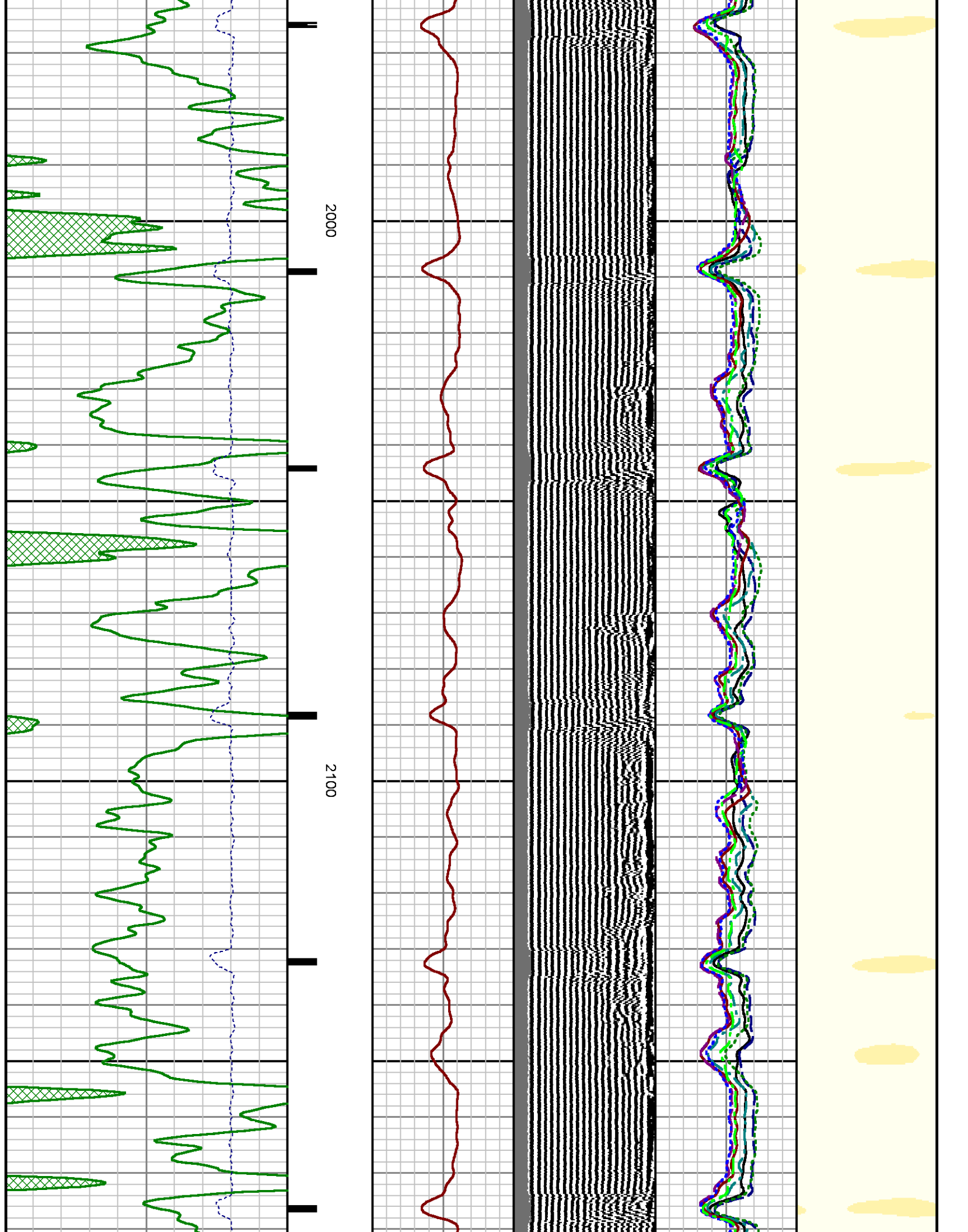


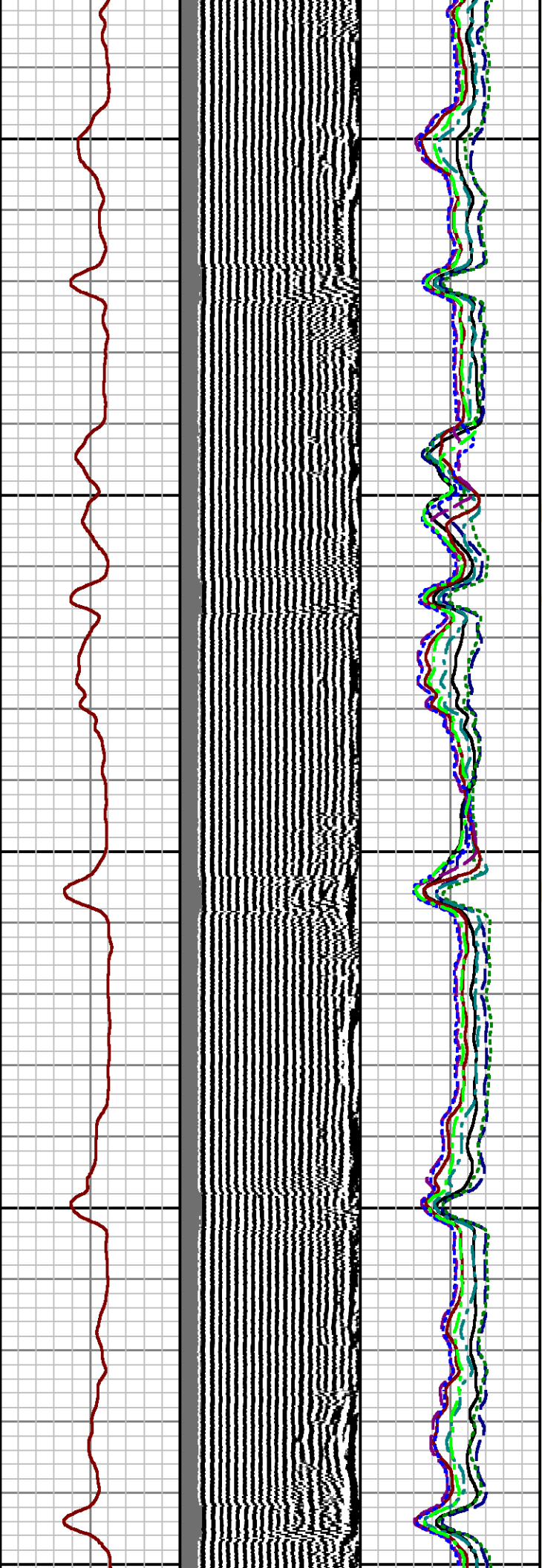
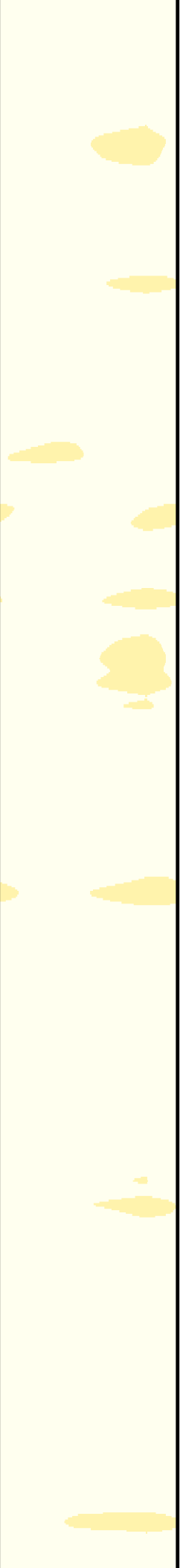








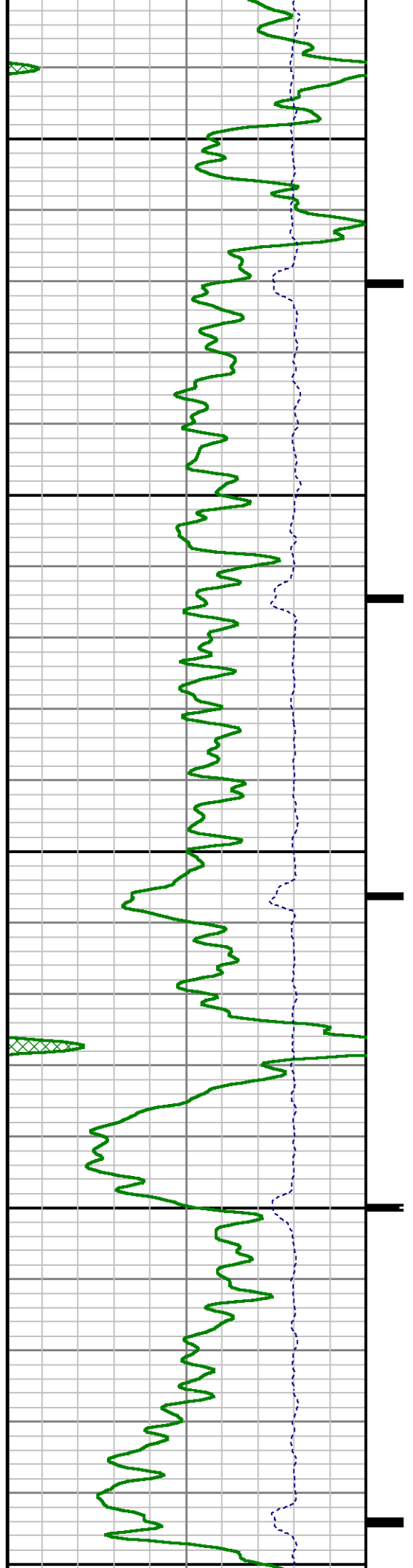


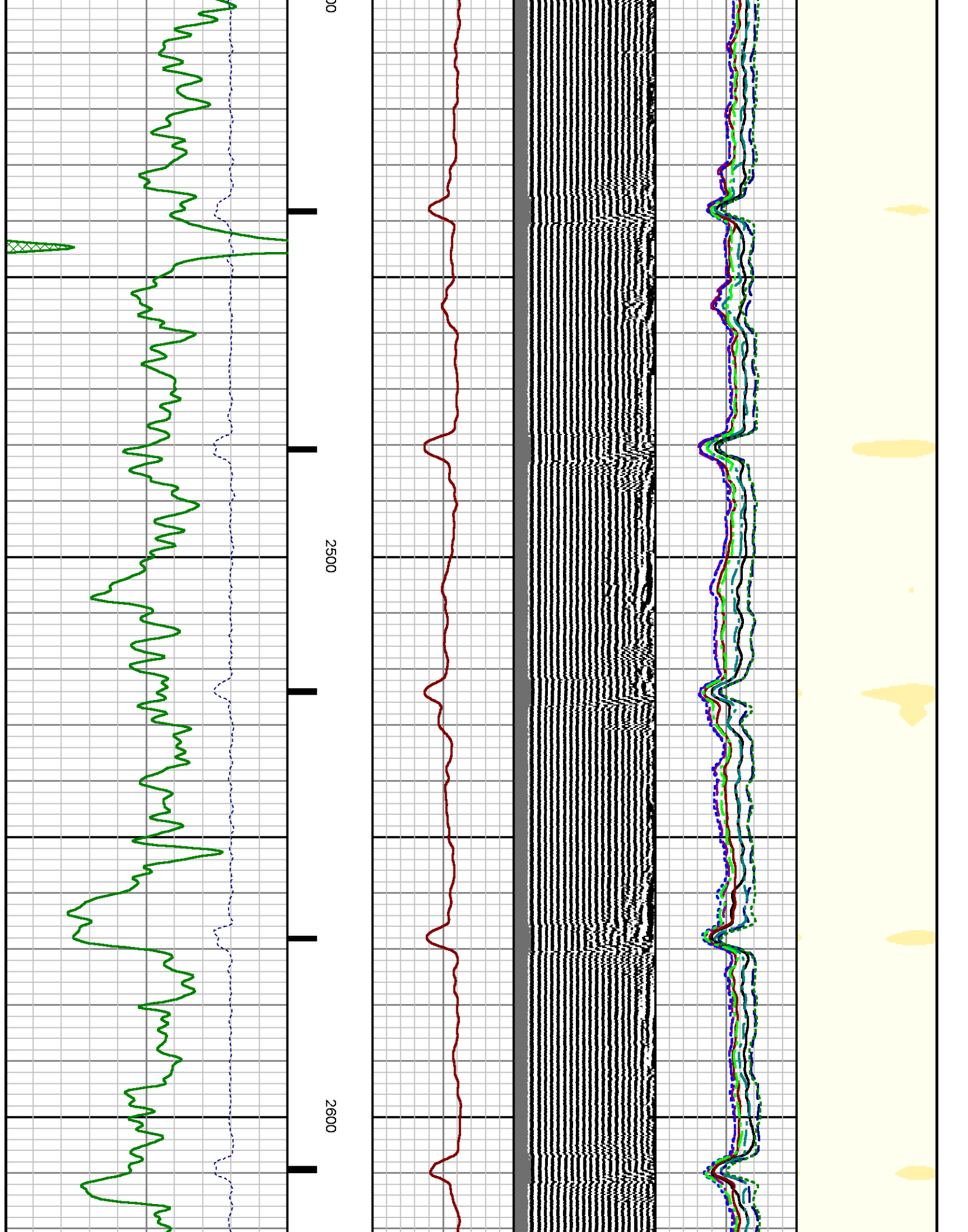


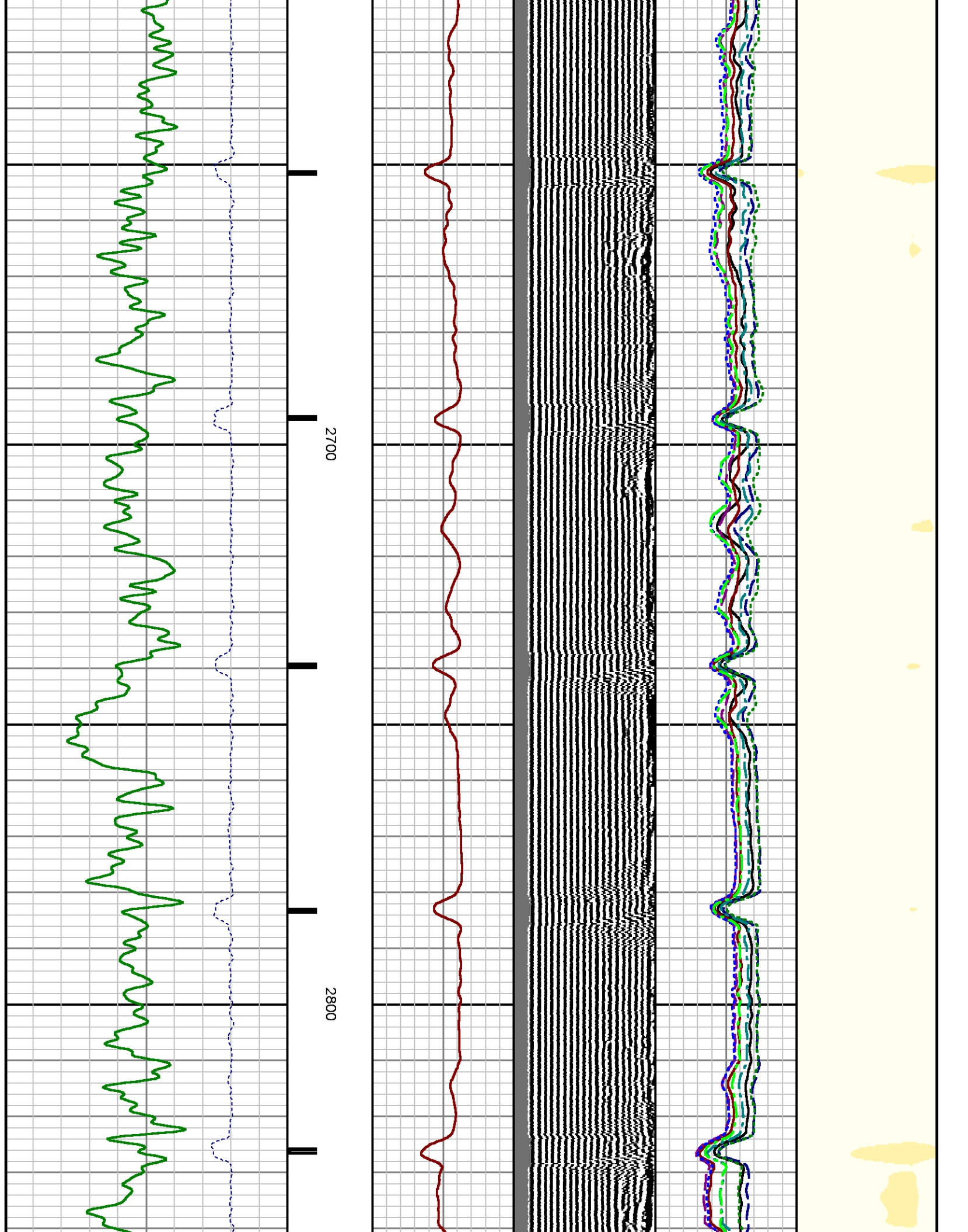
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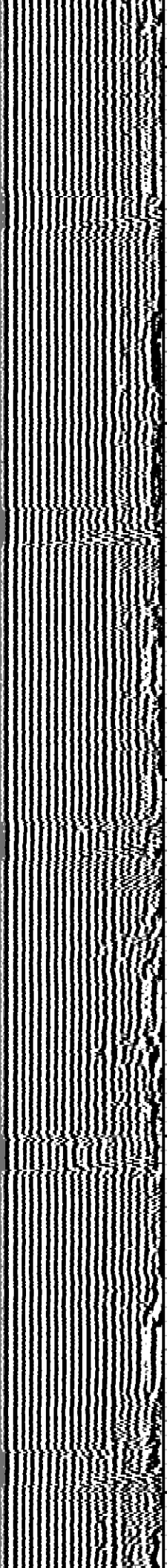
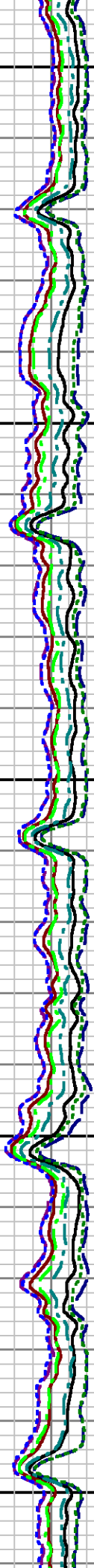
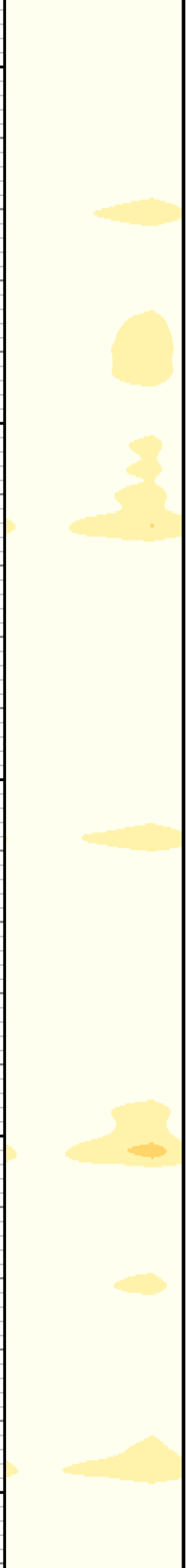
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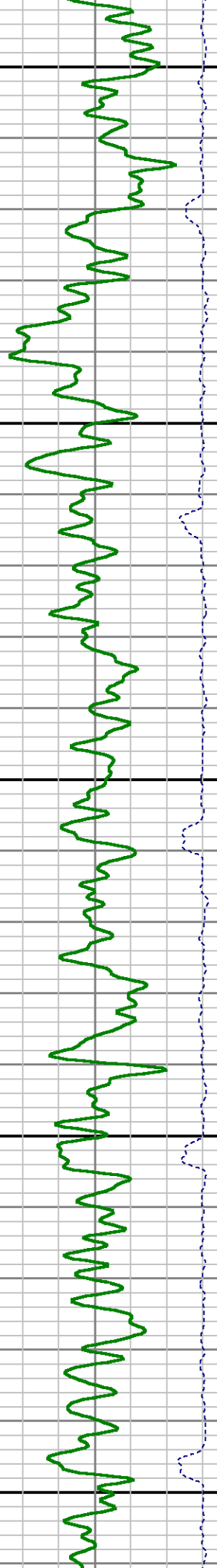


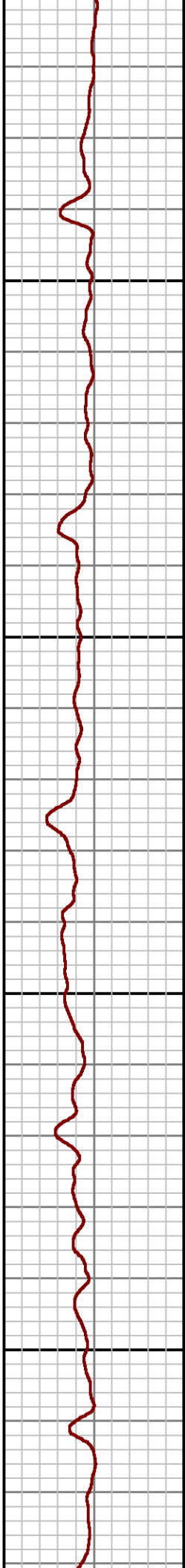
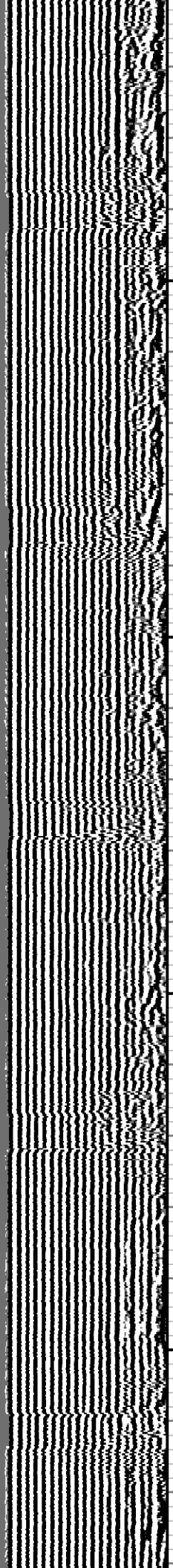
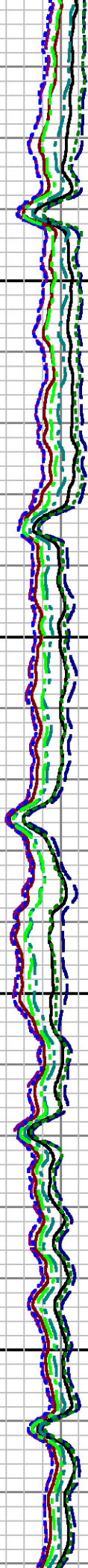
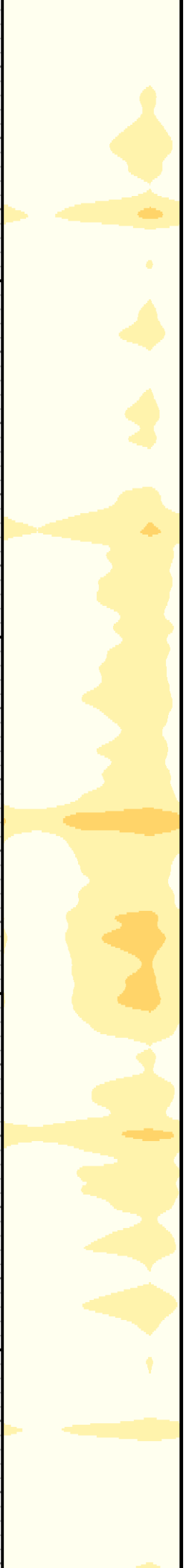


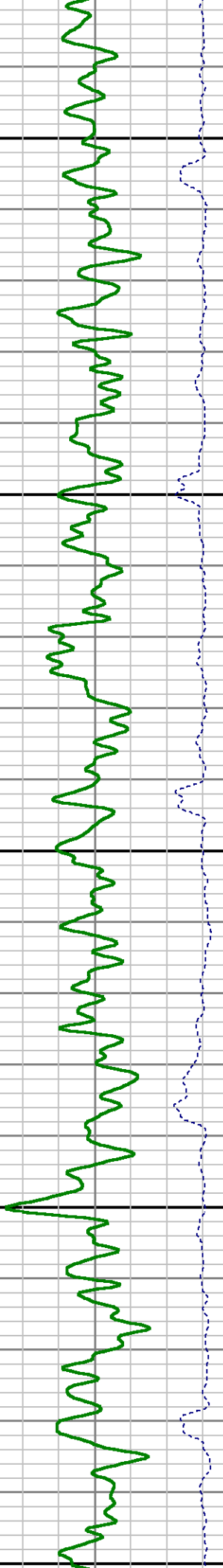
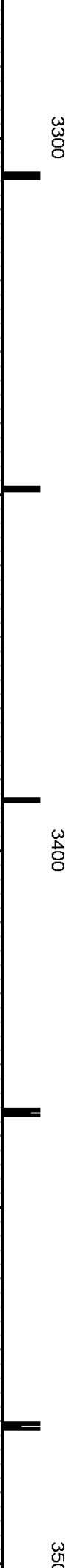
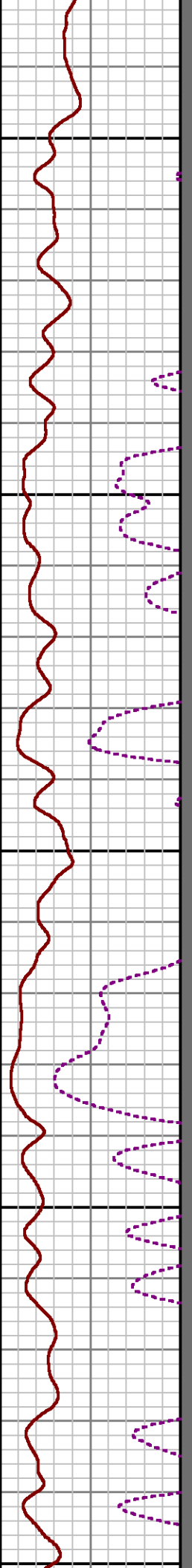
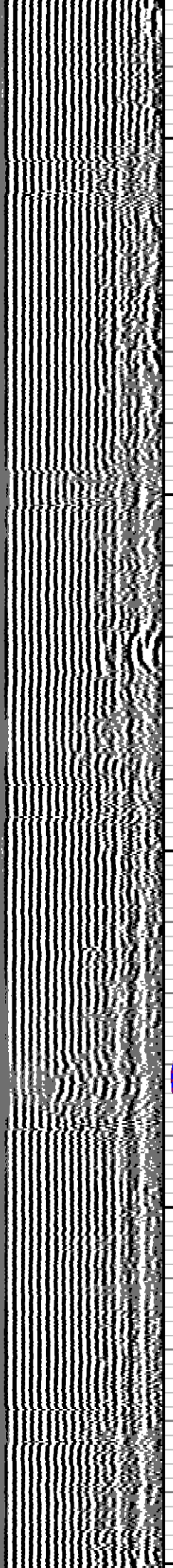
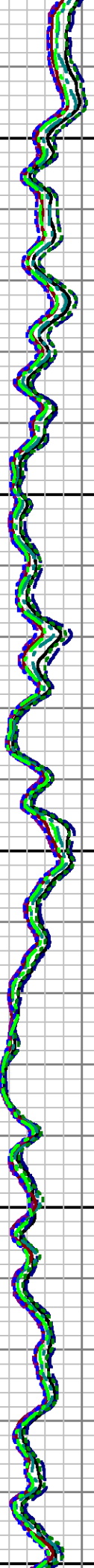
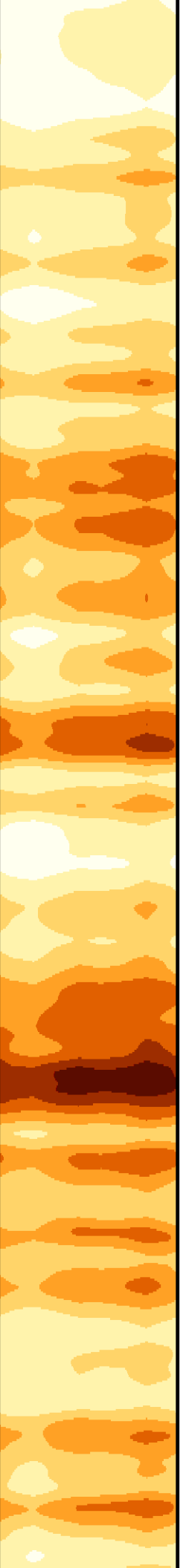


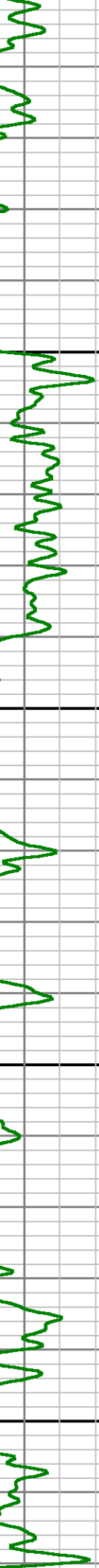
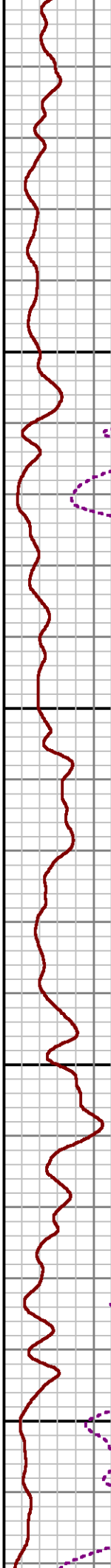
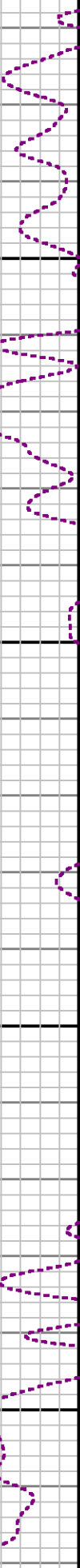
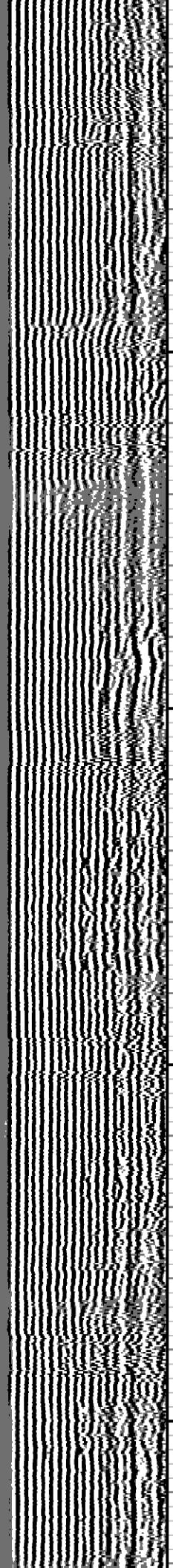
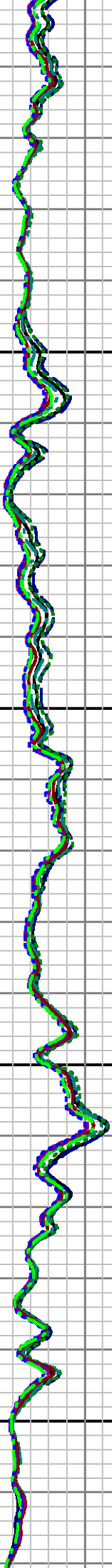
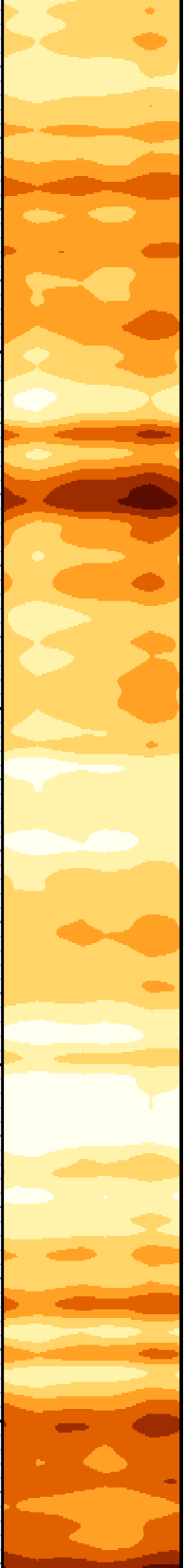
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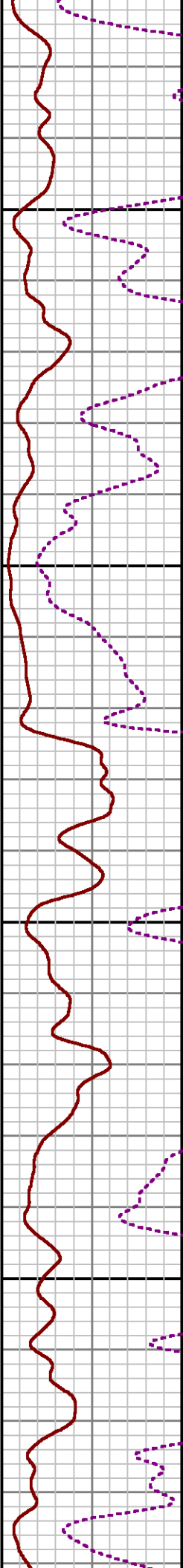
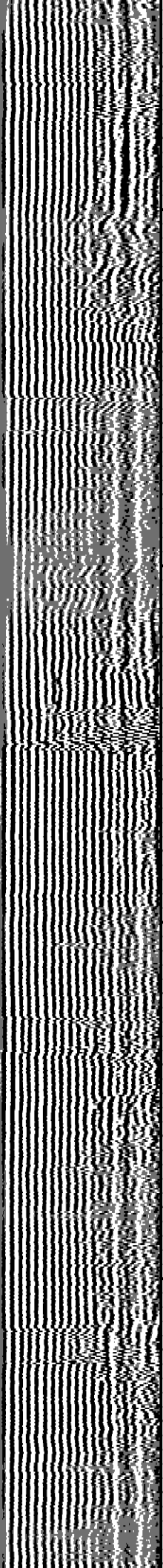
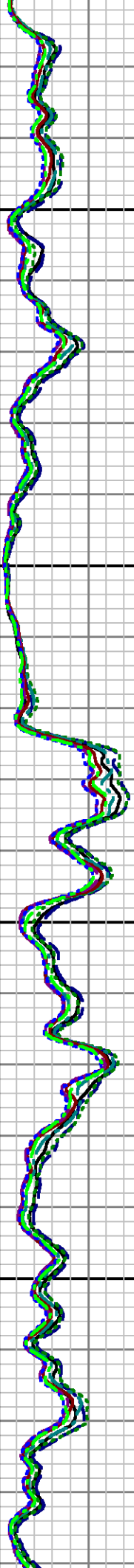
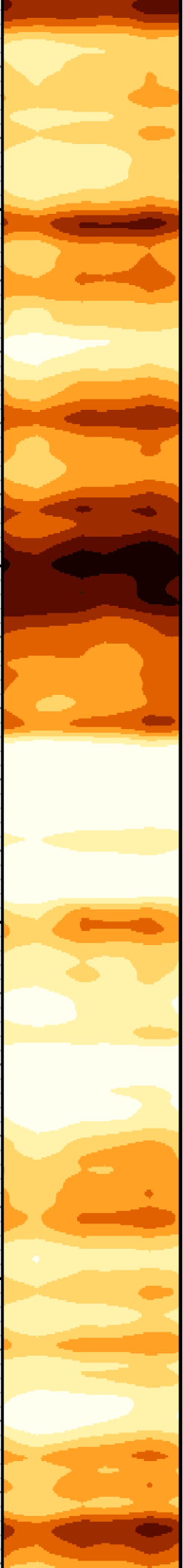






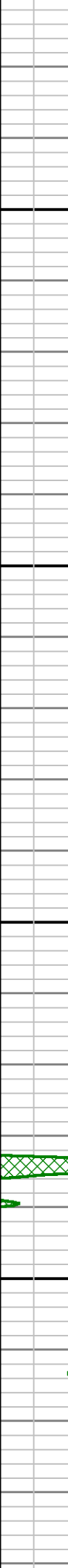
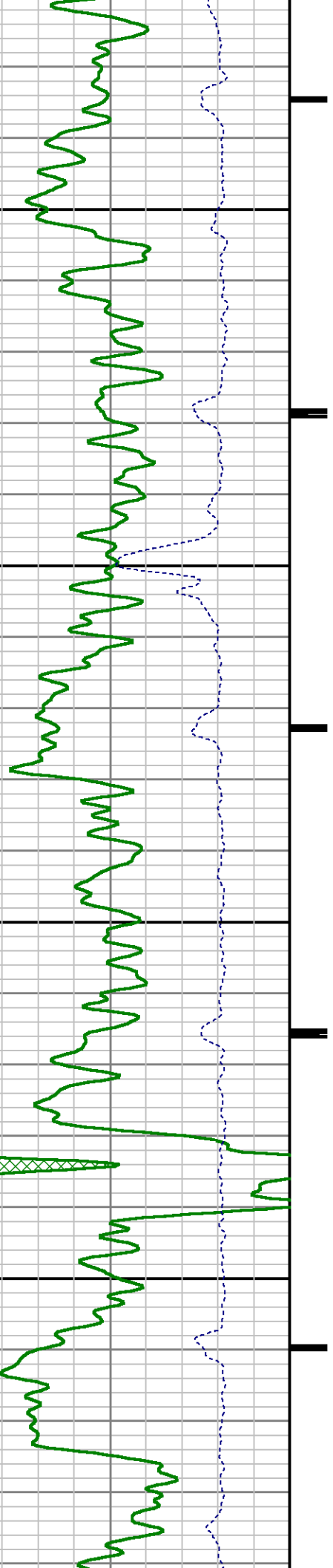


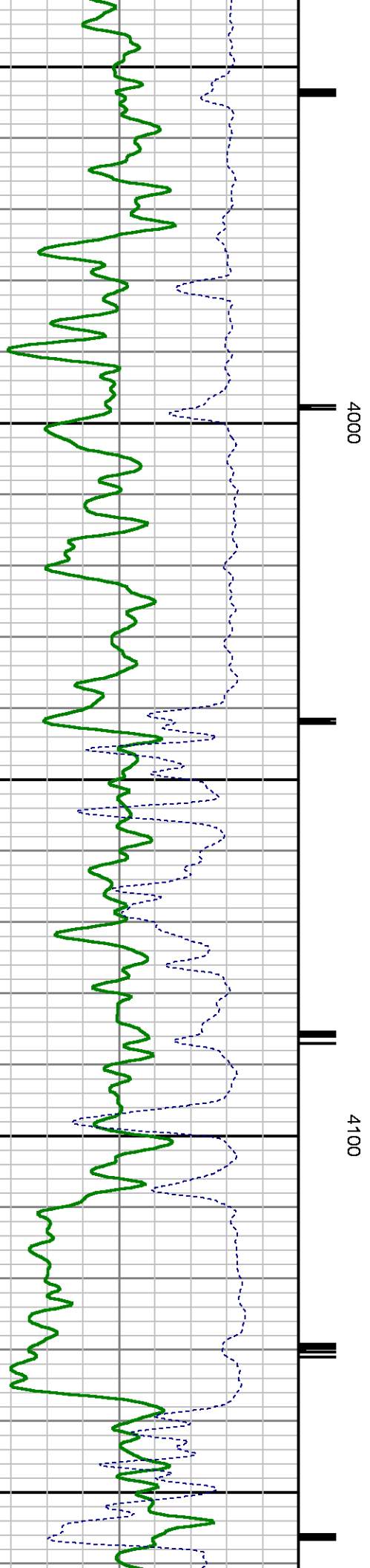
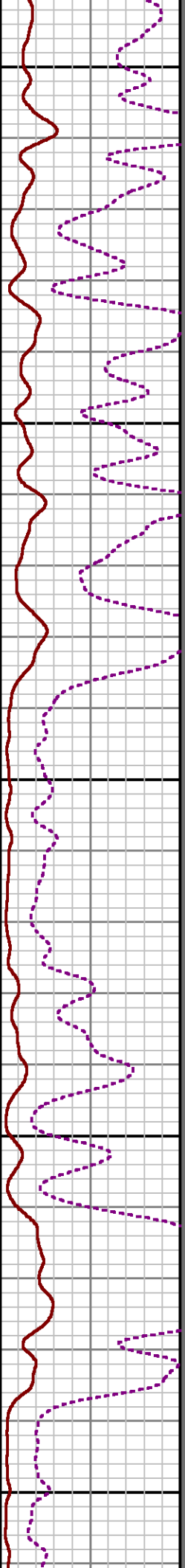
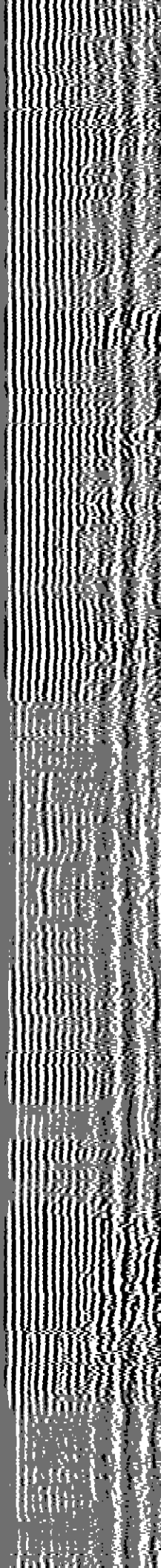
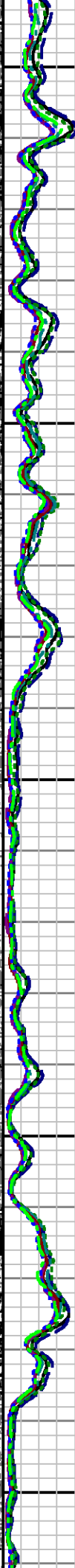
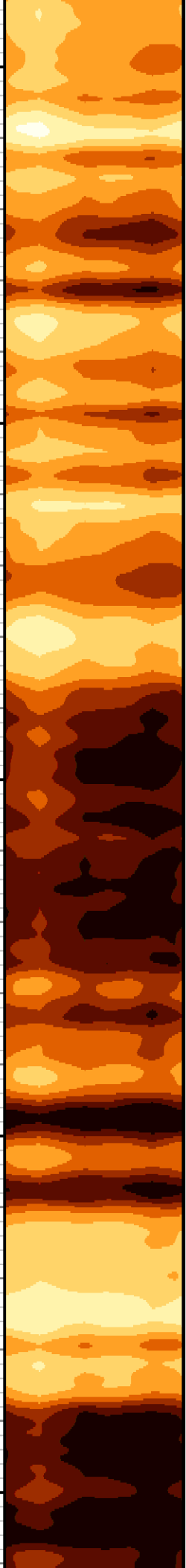
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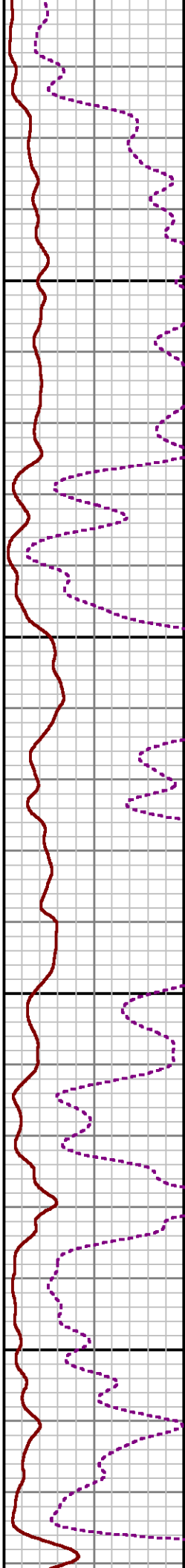
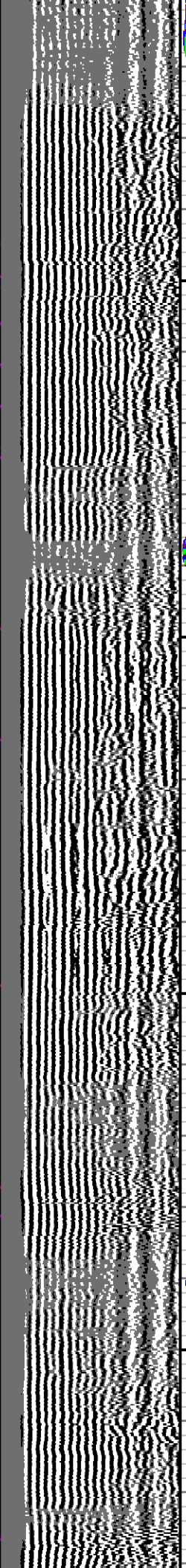
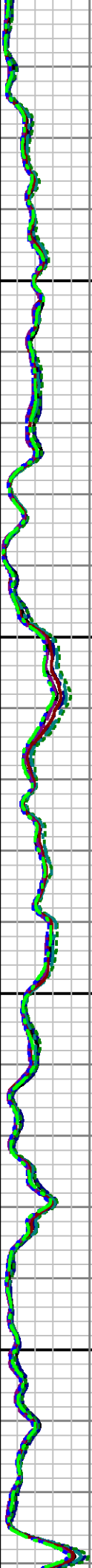
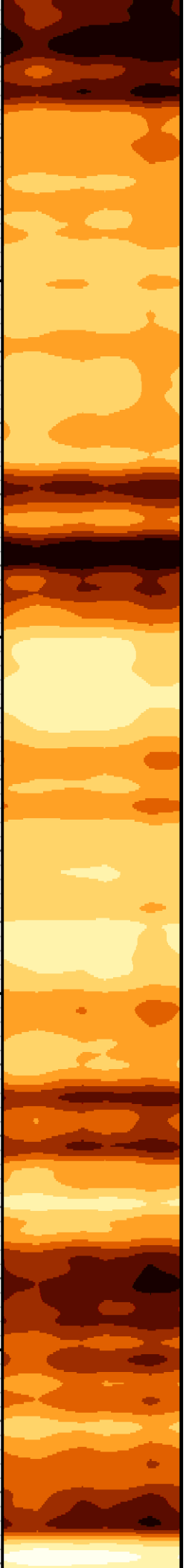


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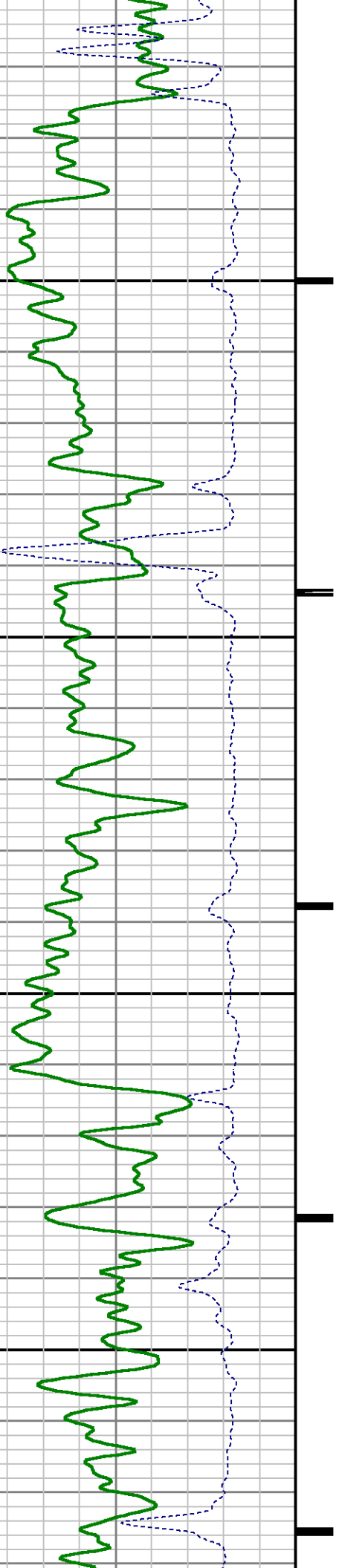


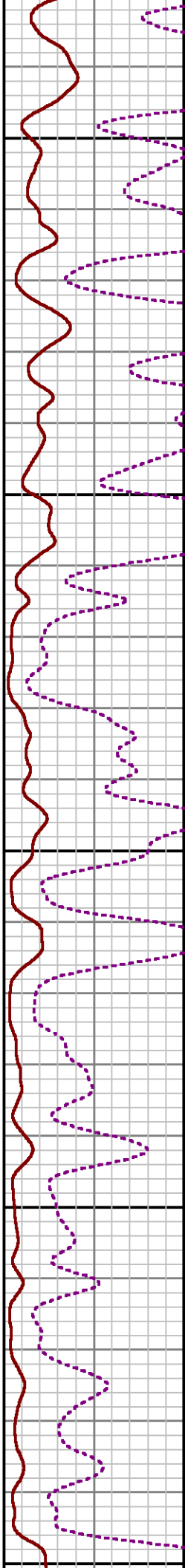
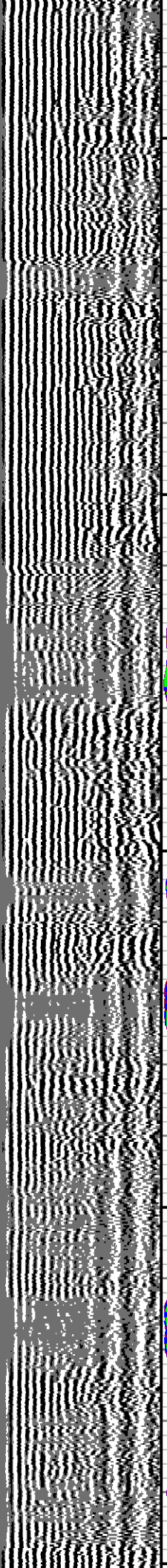
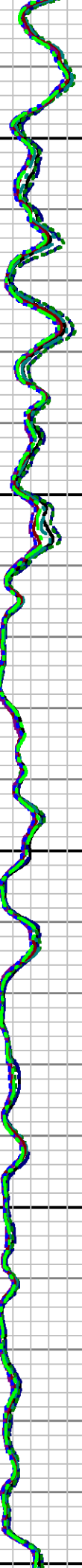
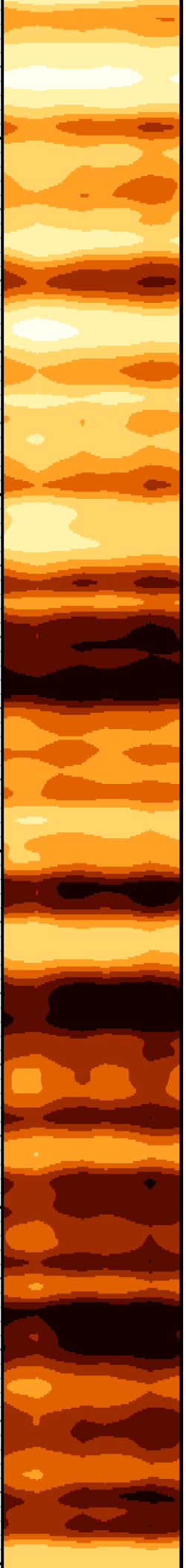




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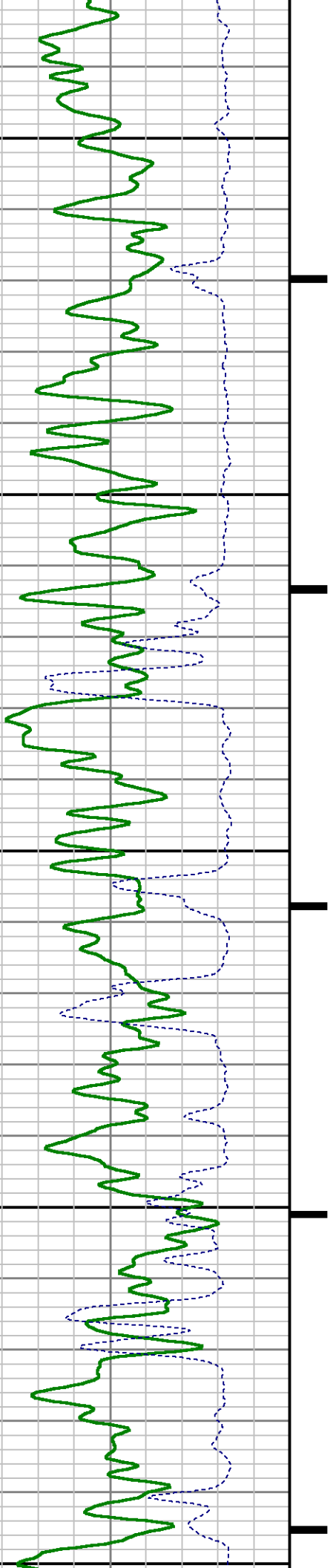


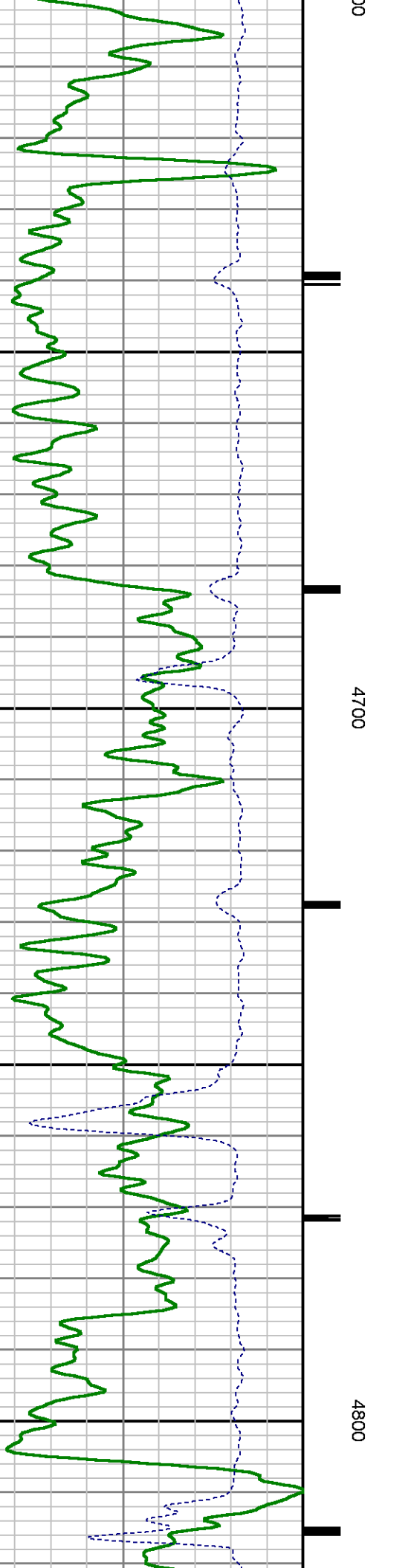
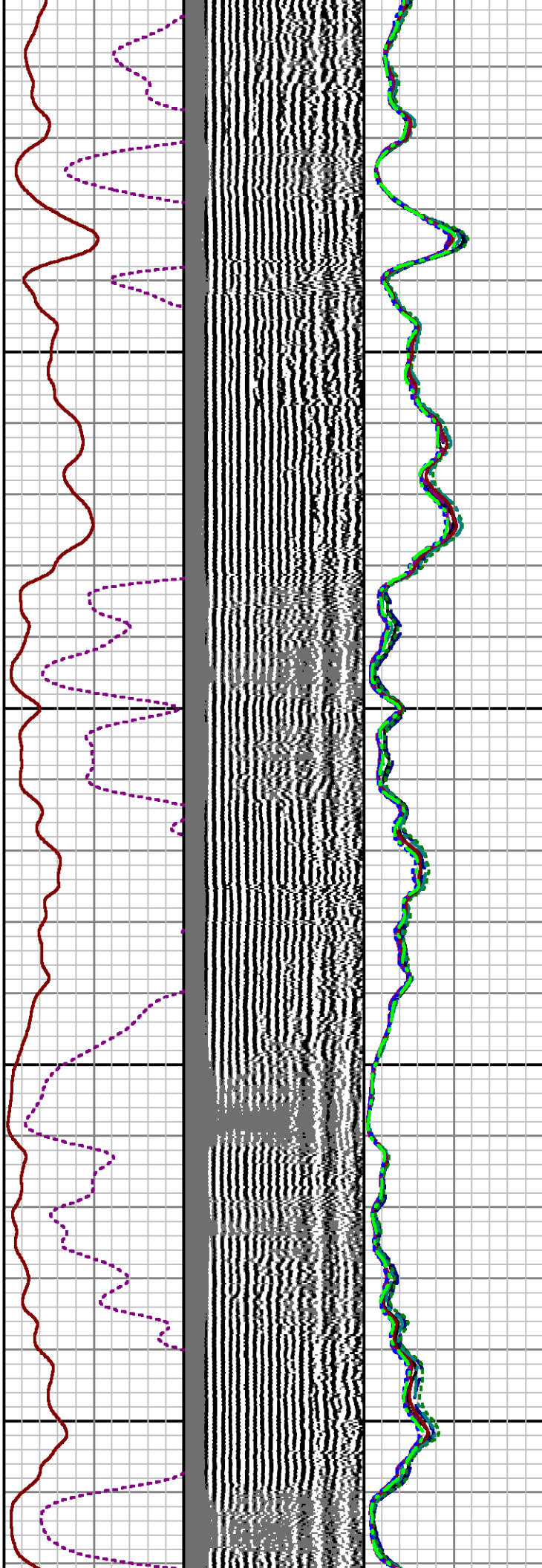
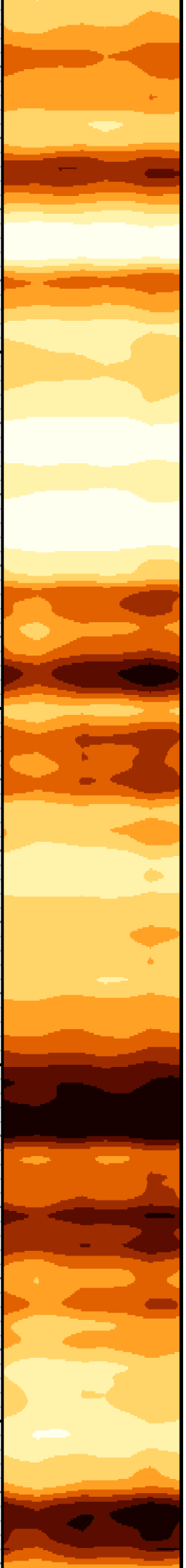


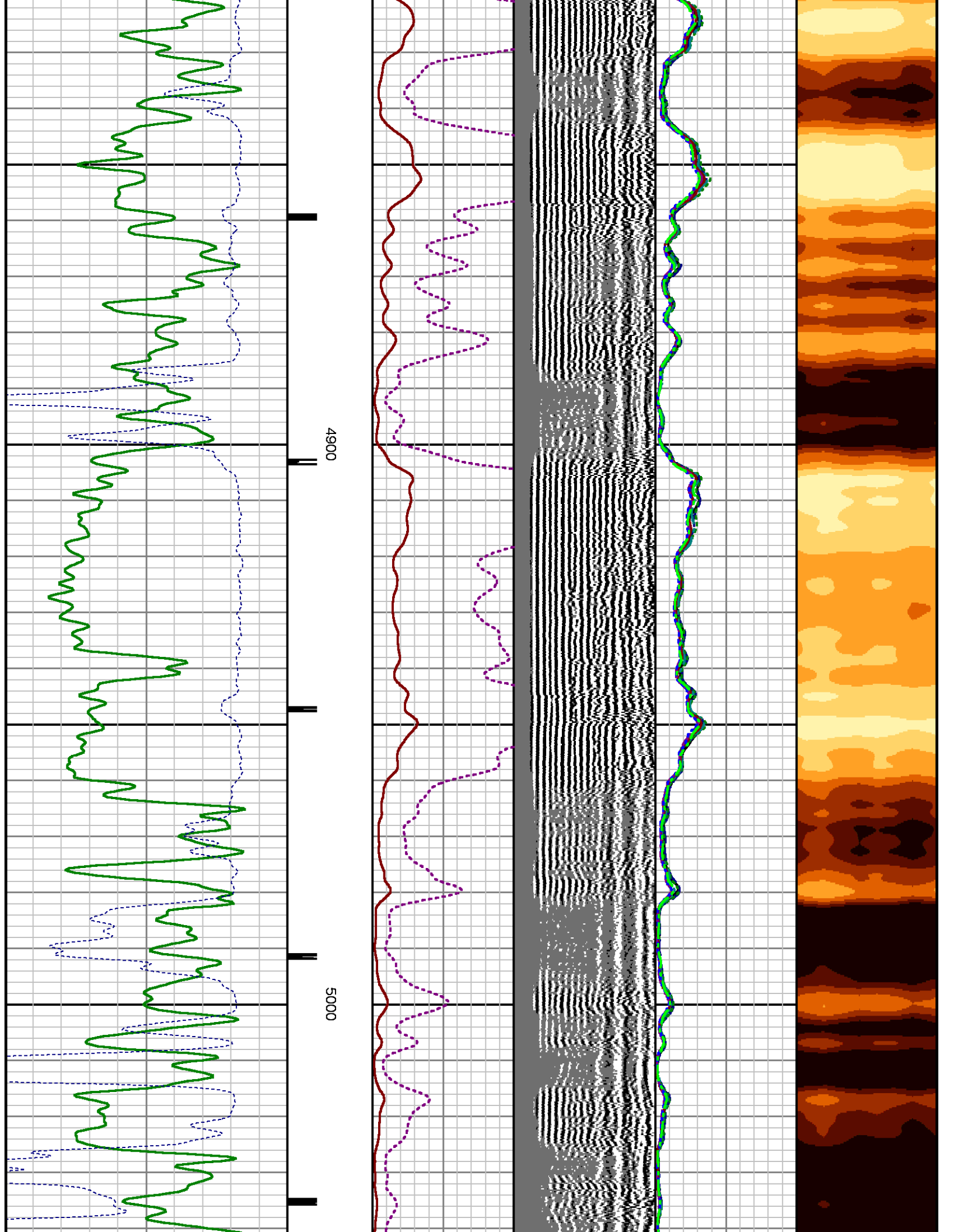
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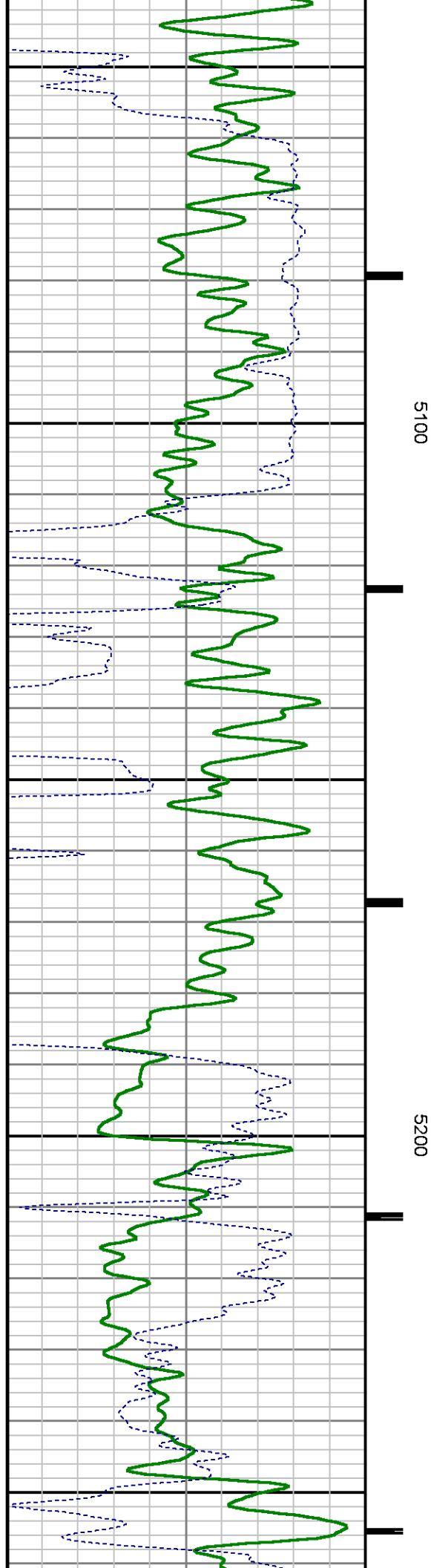
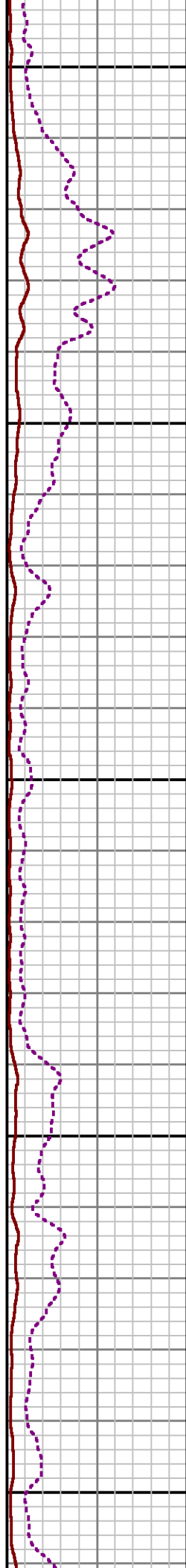
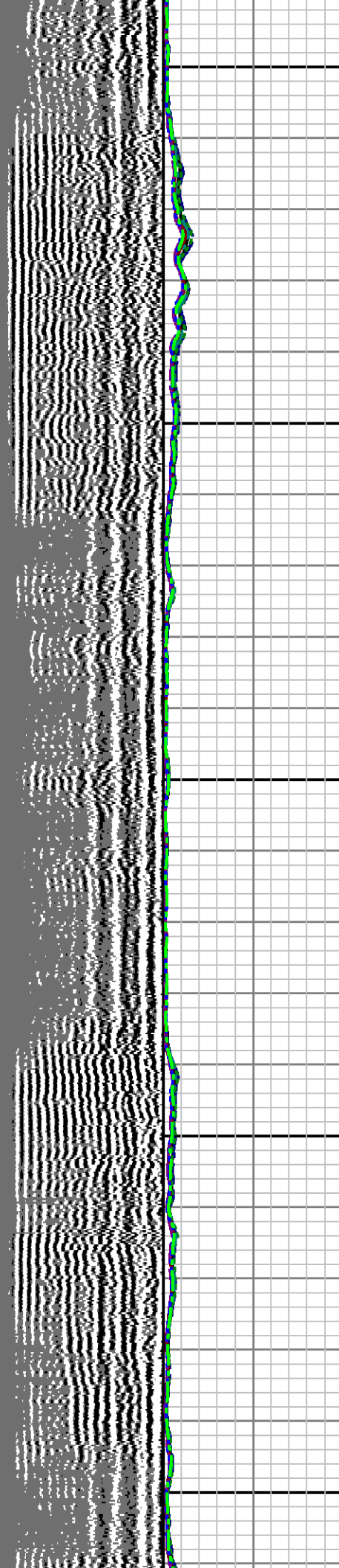
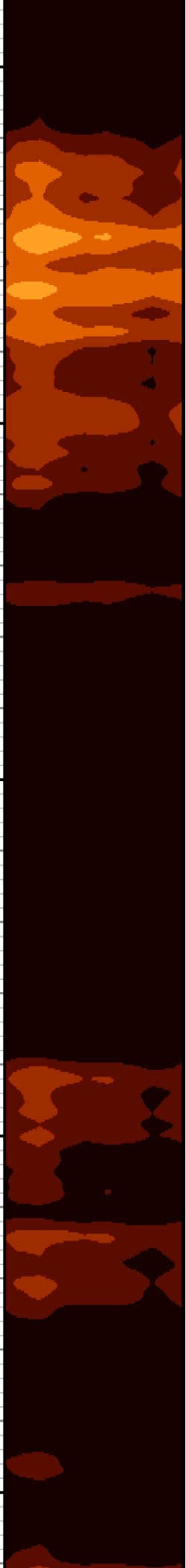
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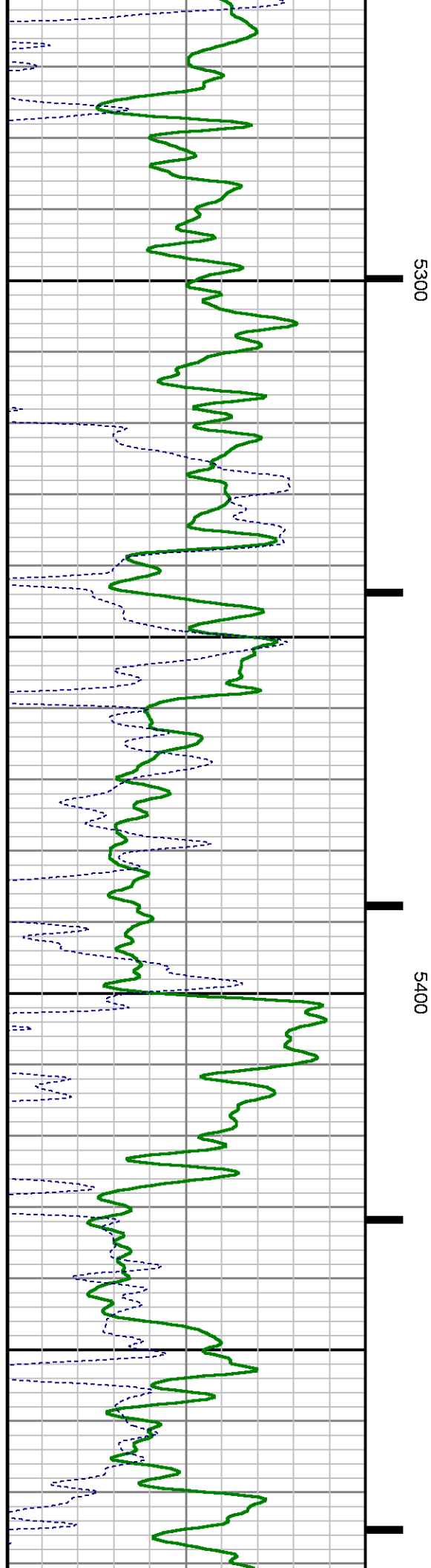
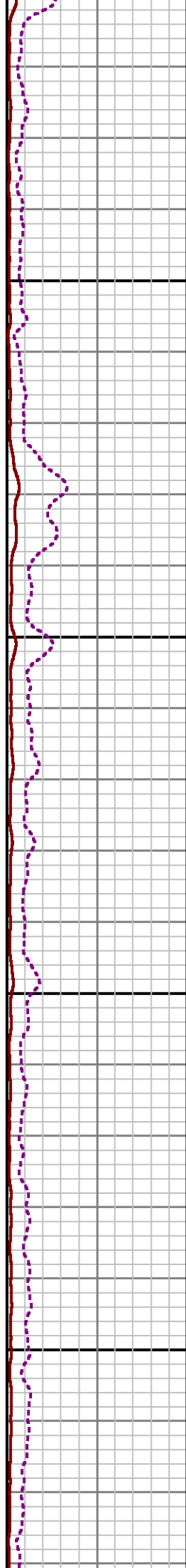
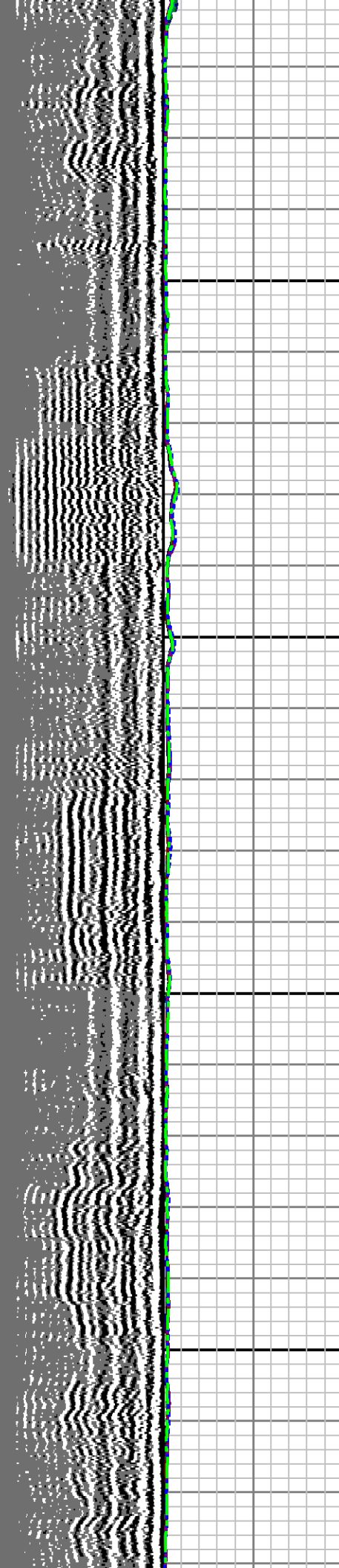
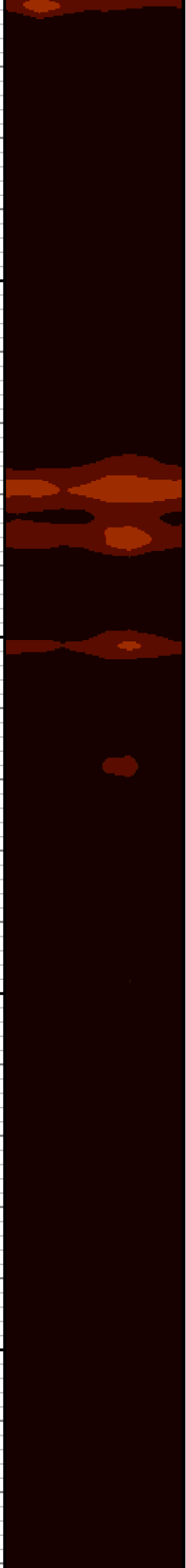
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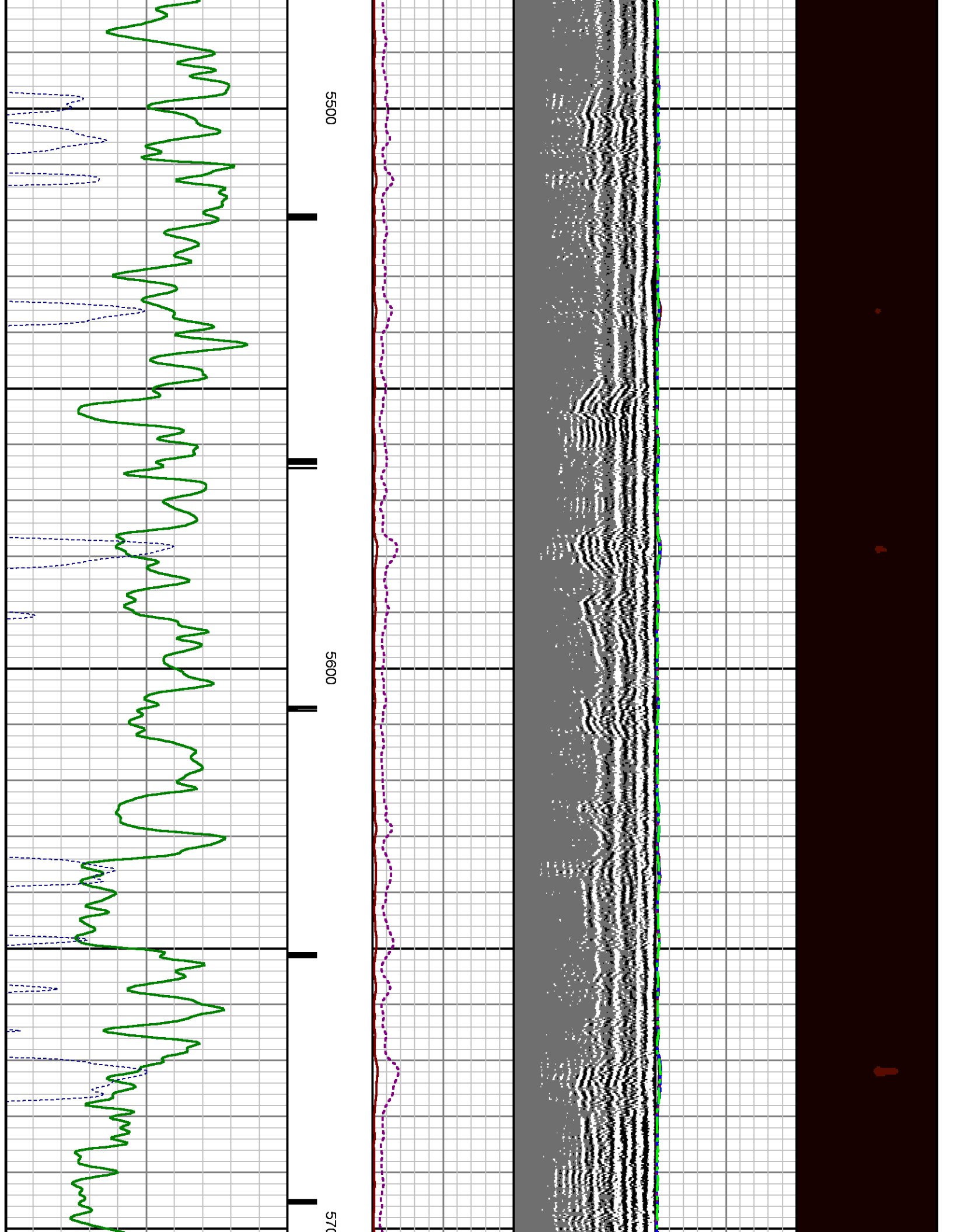


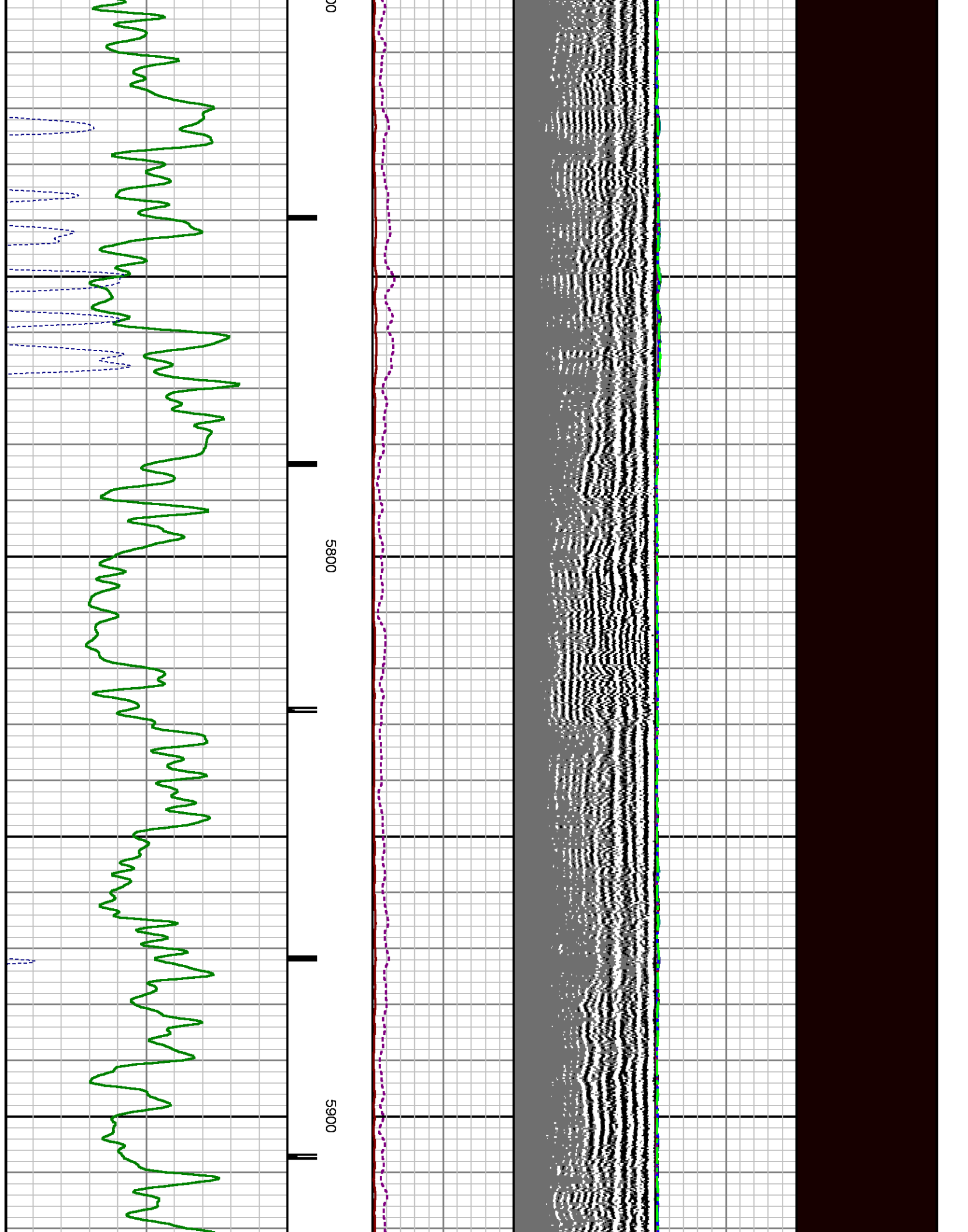


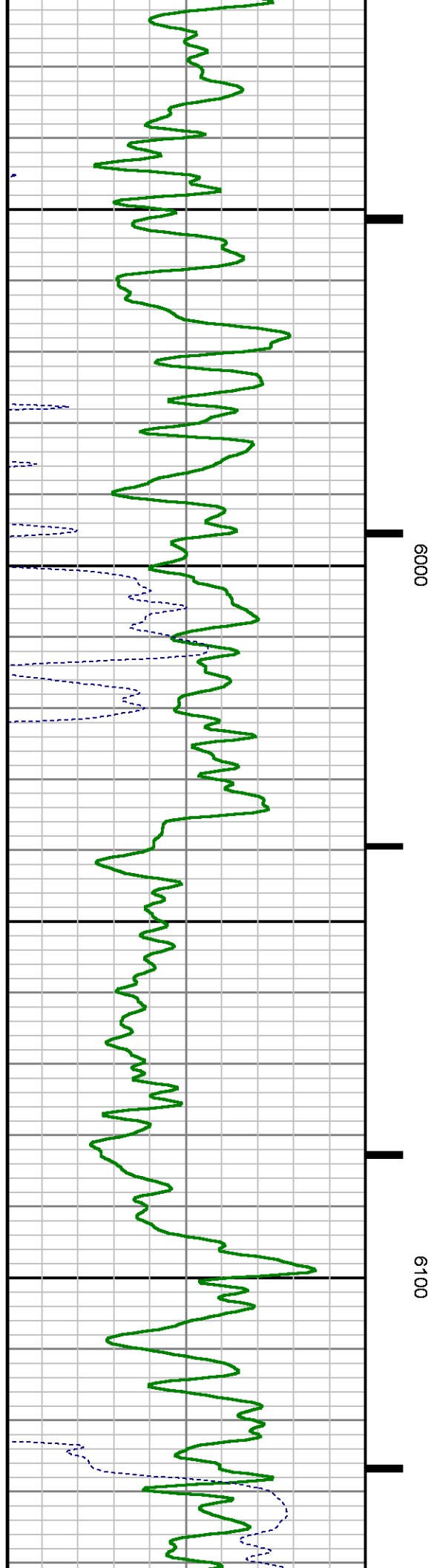
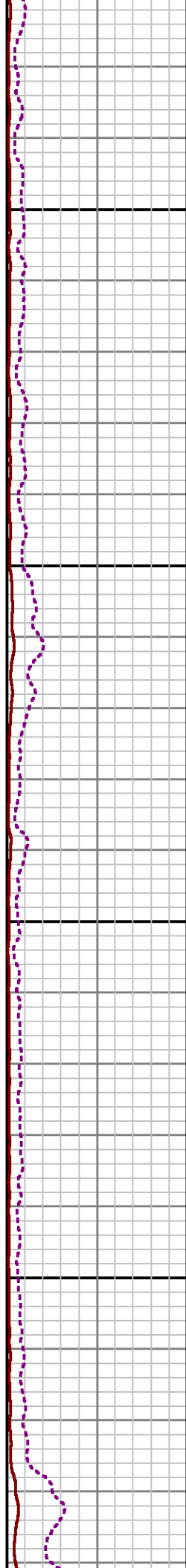
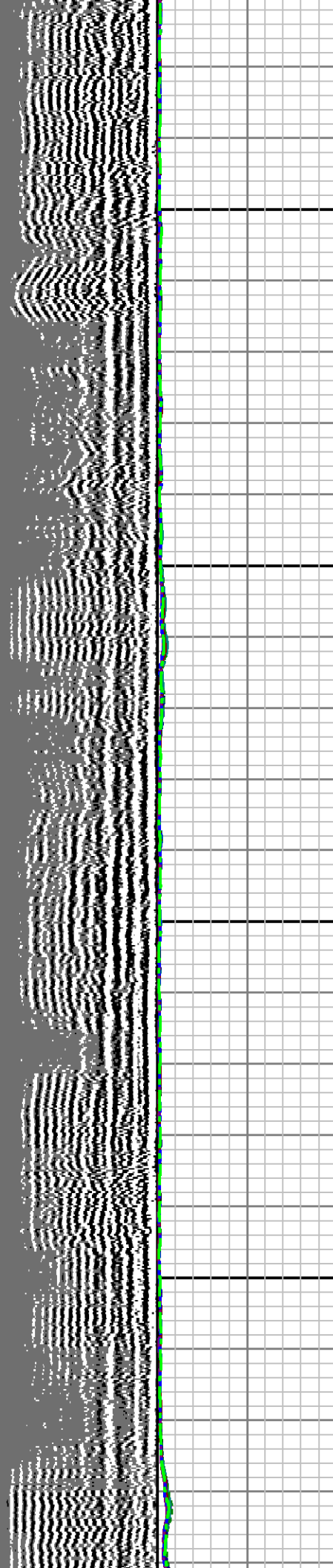






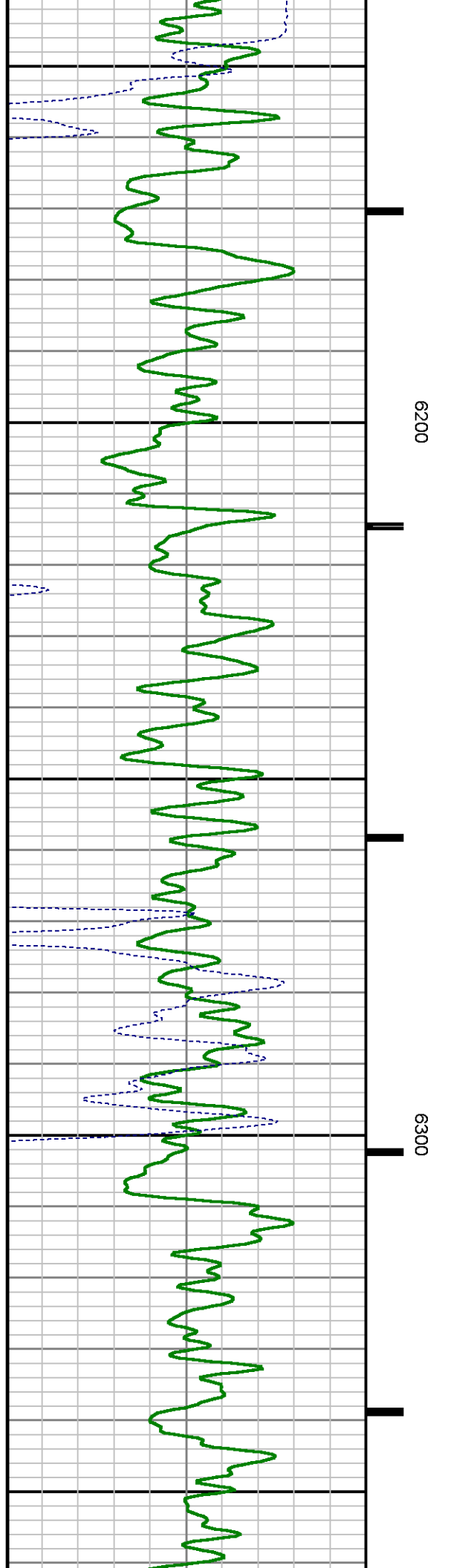
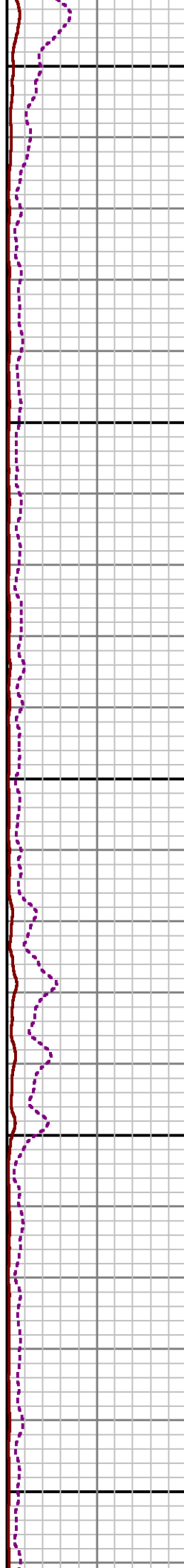
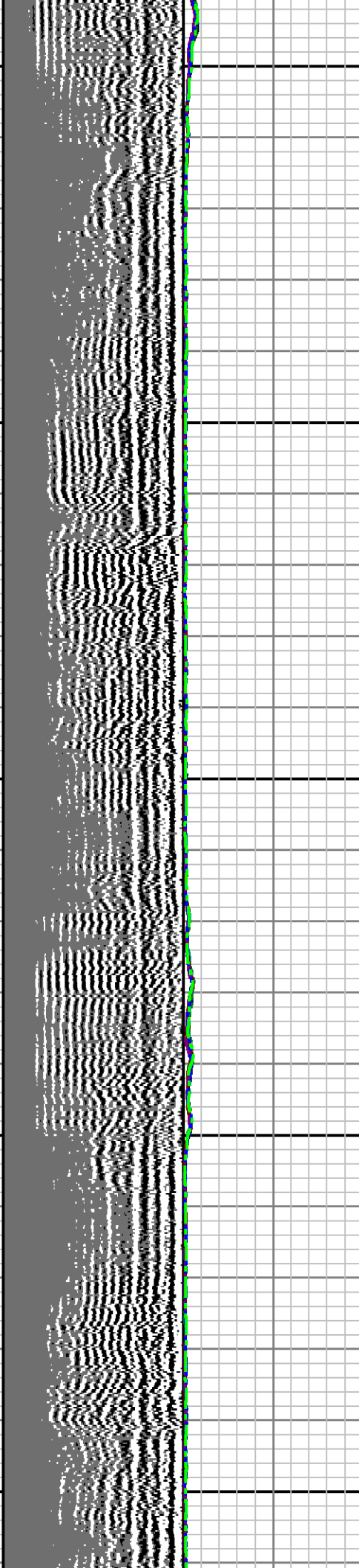


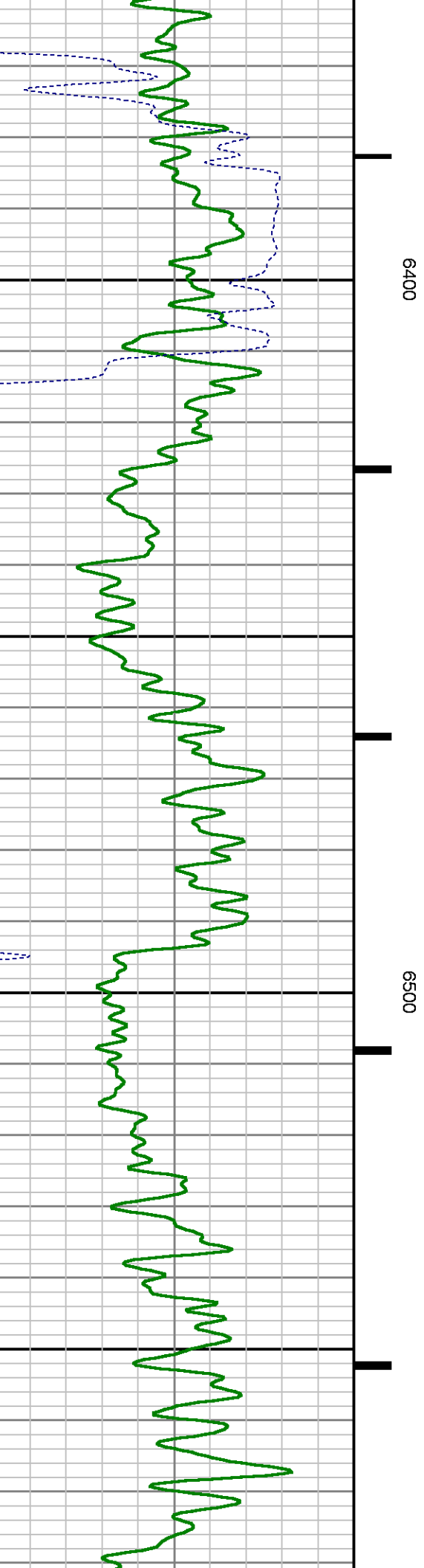
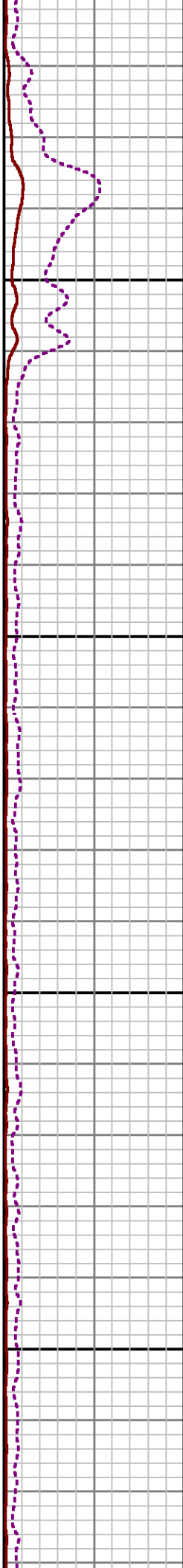
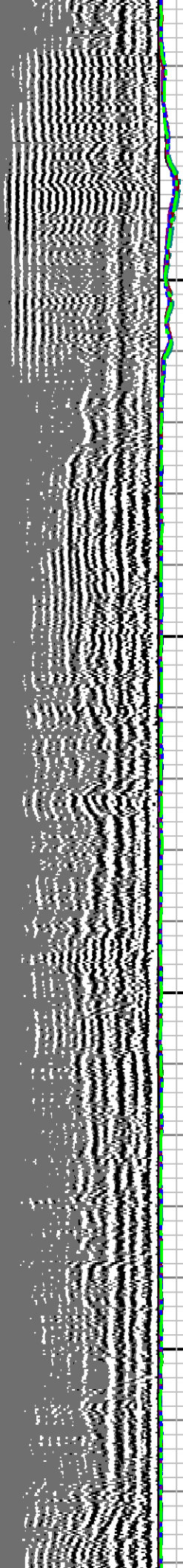
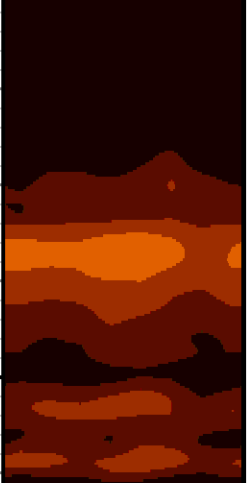


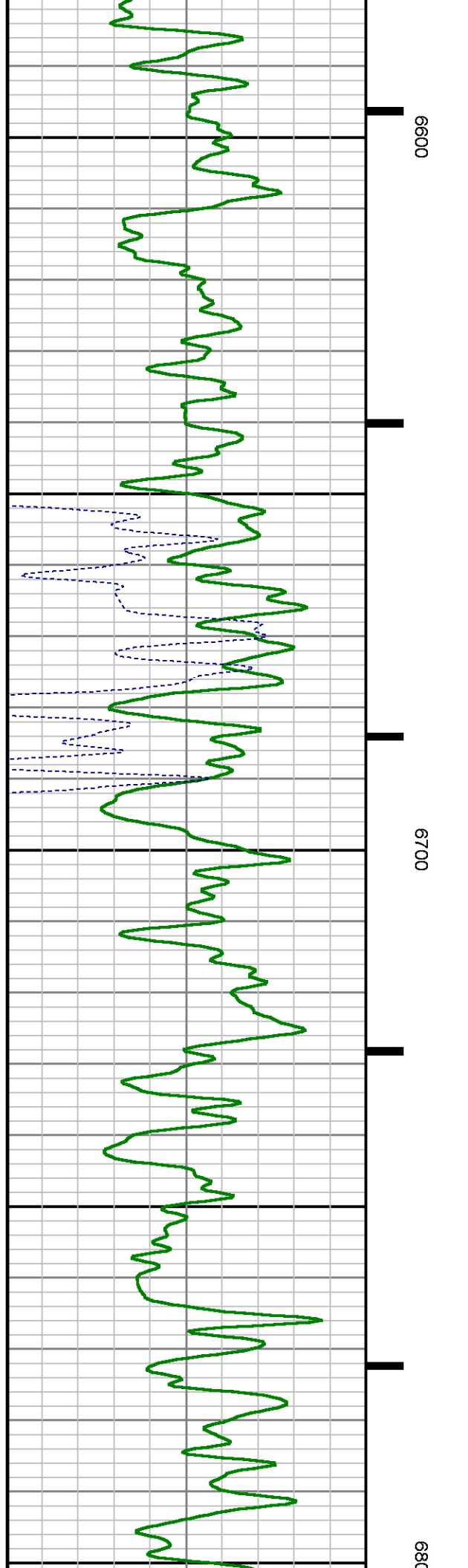
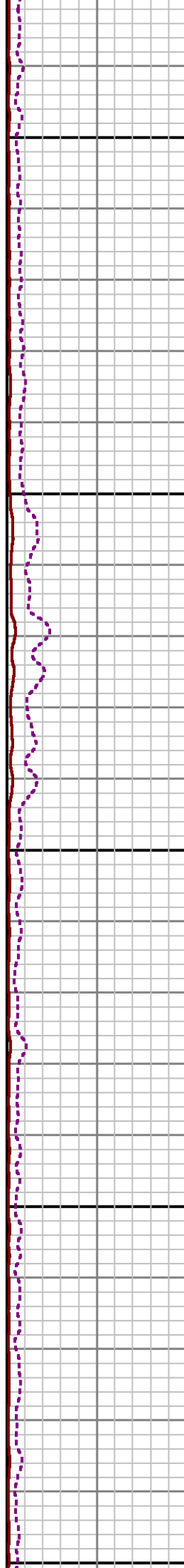
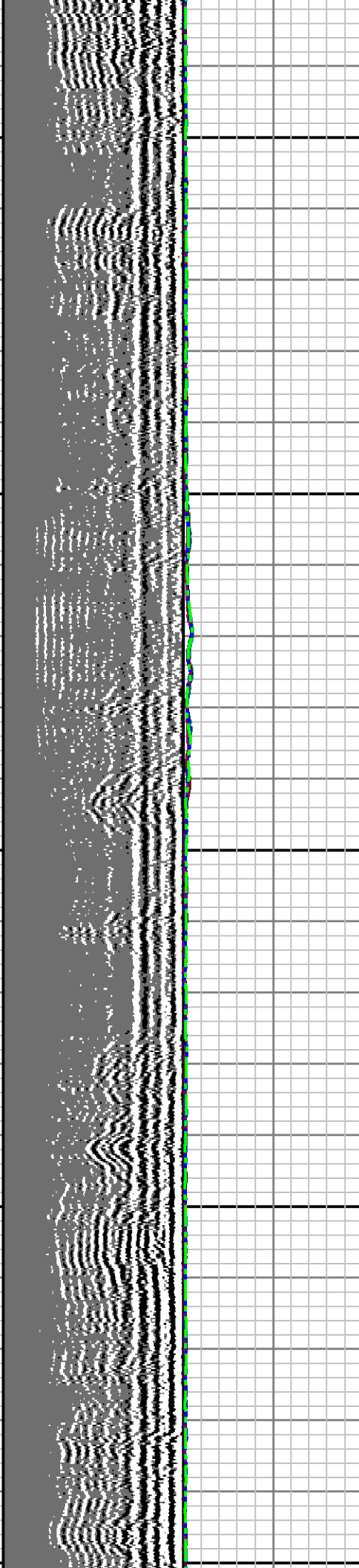
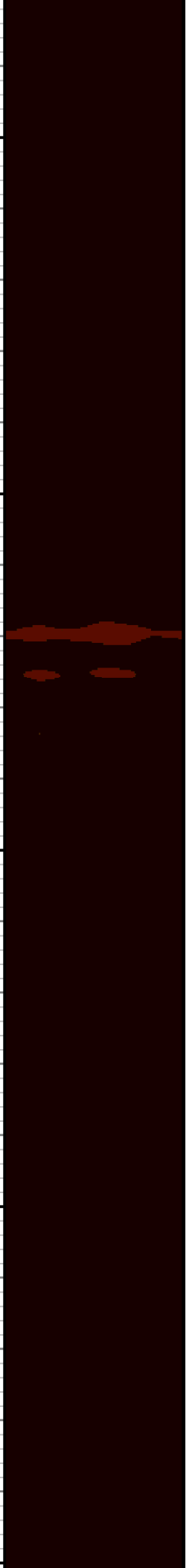


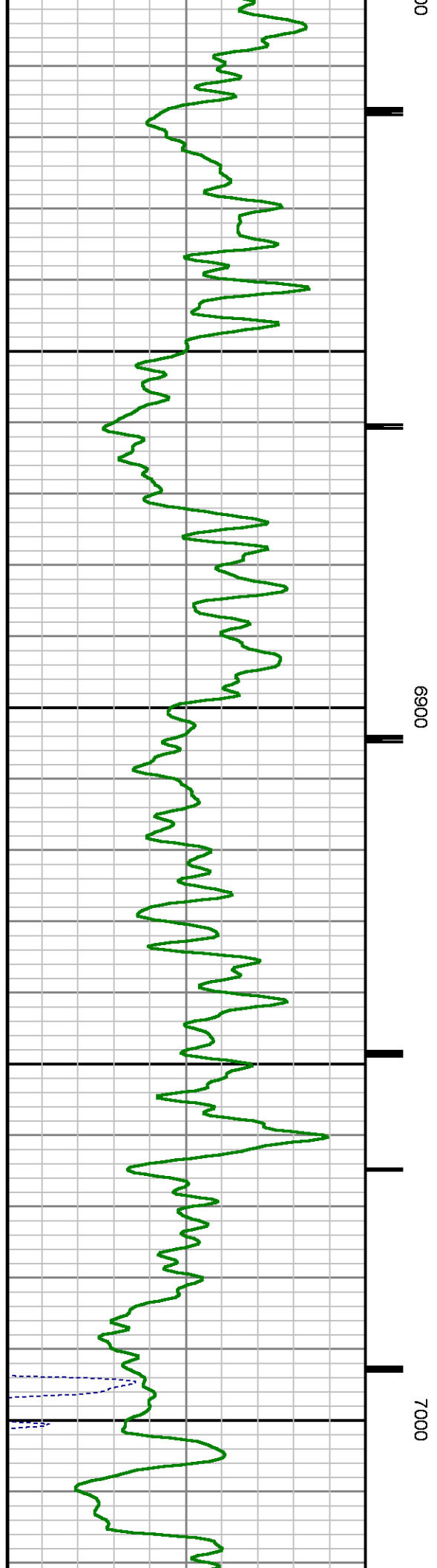
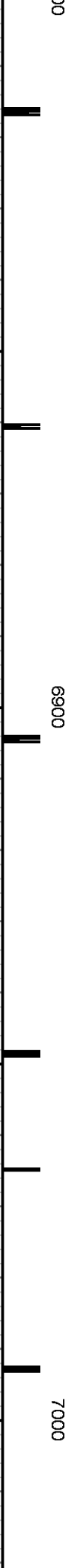
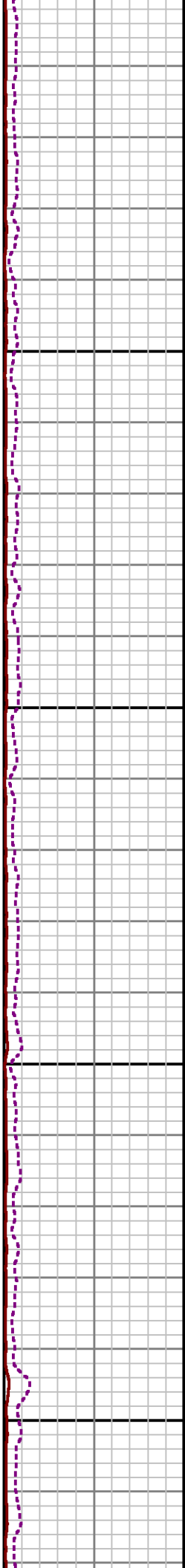
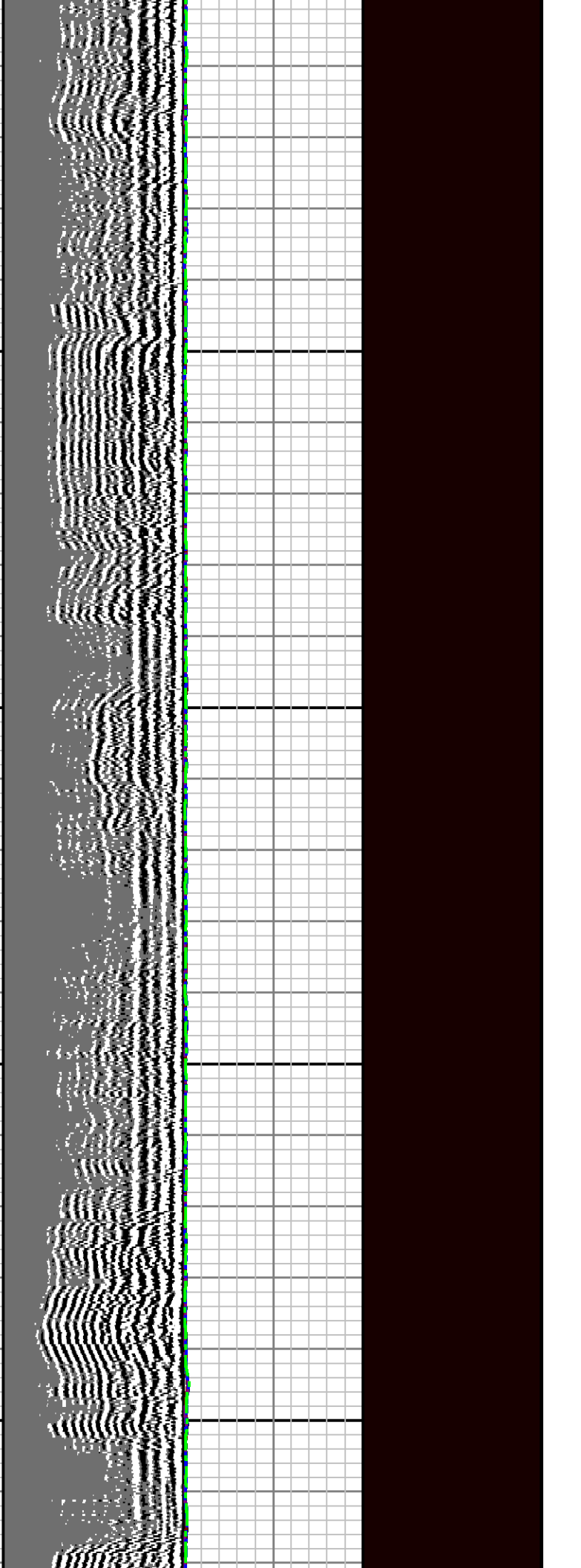
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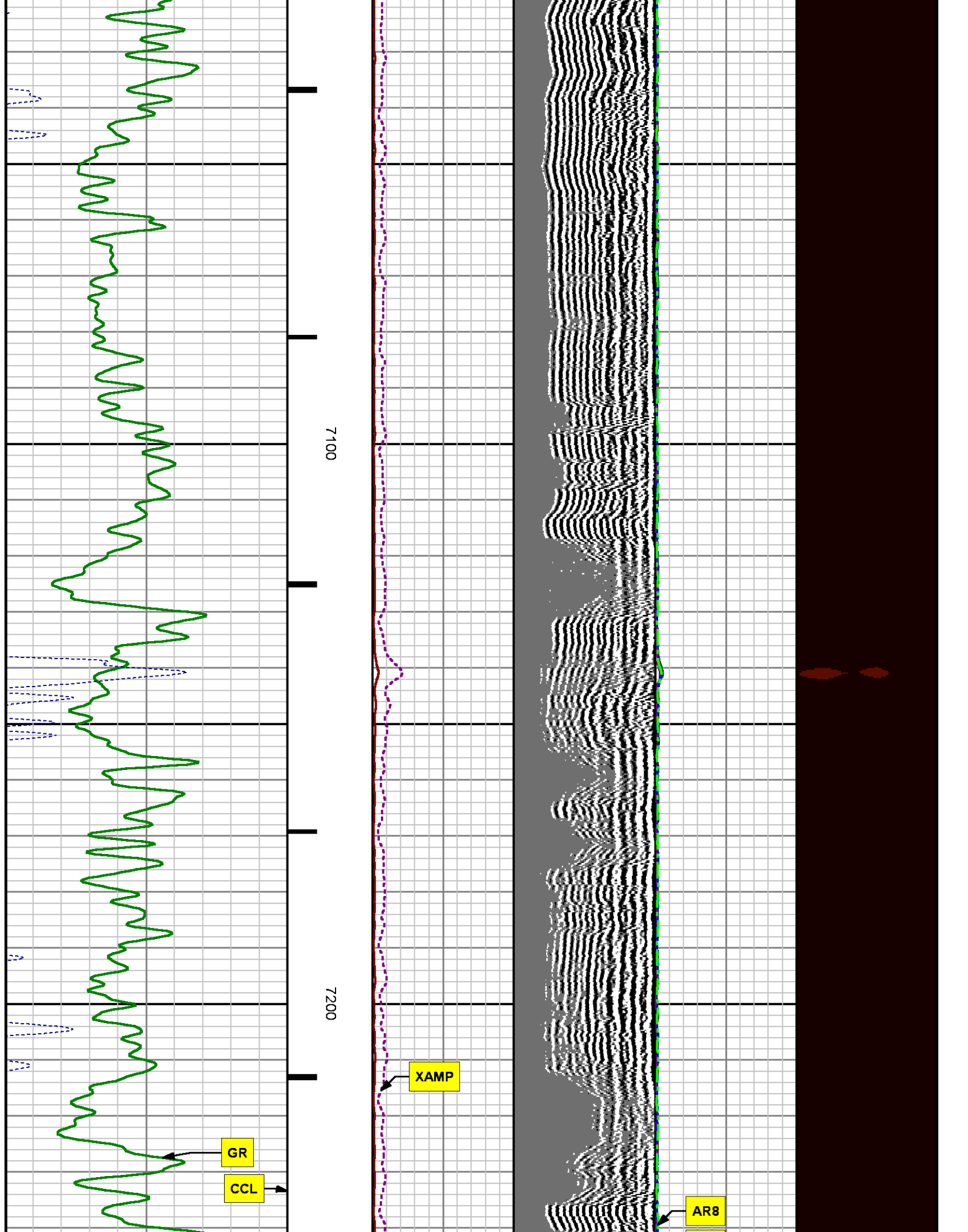
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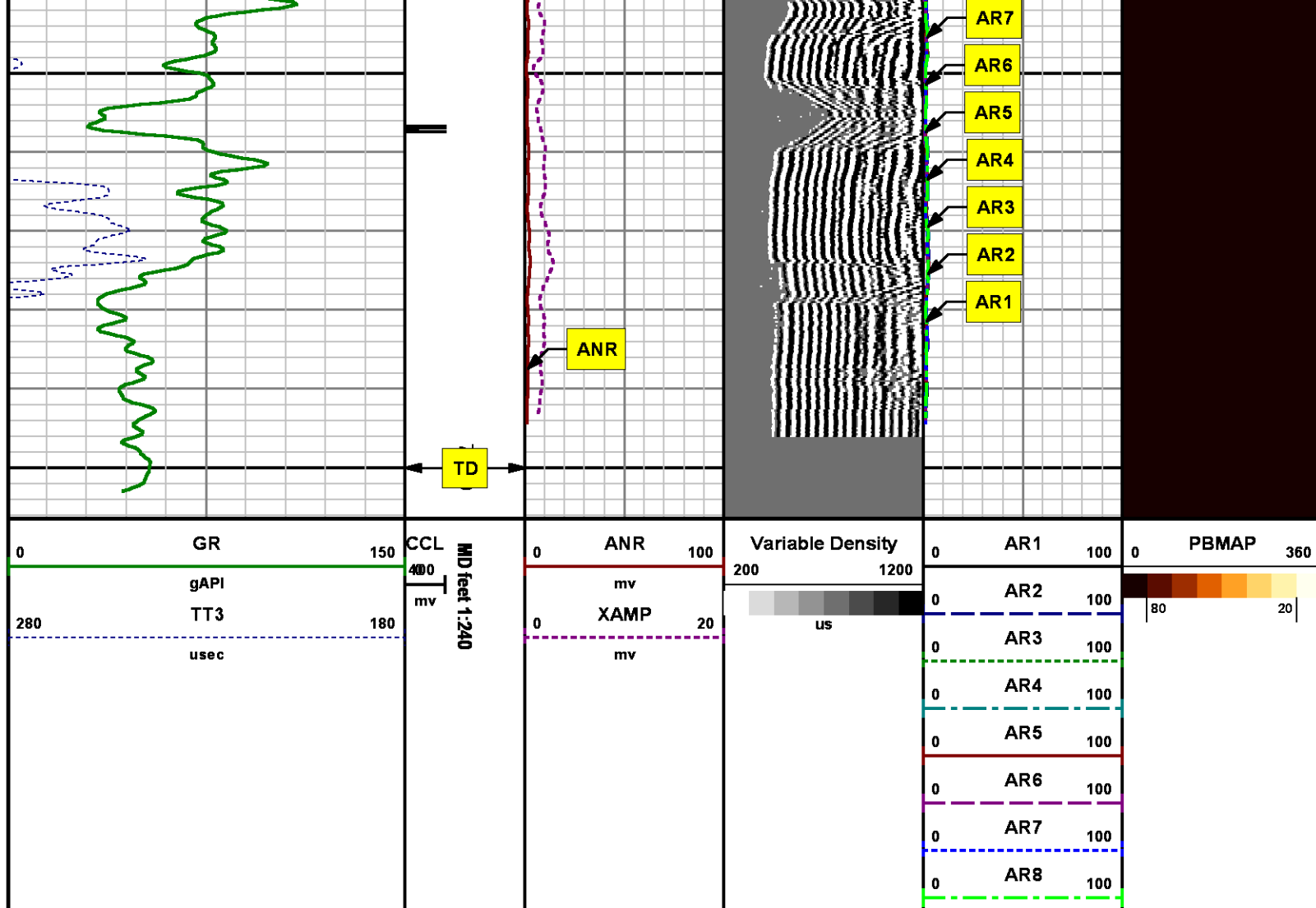












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	6975.540	7301.790
RAL	Amp Gate Start Near	195.000	usec	6975.540	7301.790
RAL	Amp Gate Start Radial	195.000	usec	6975.540	7301.790
RAL	Amp Gate Width Far	25.000	usec	6975.540	7301.790
RAL	Amp Gate Width Near	25.000	usec	6975.540	7301.790
RAL	Amp Gate Width Radial	25.000	usec	6975.540	7301.790
RAL	casing od	4.500	inches	6975.540	7301.790

RAL	casing wt	11.600	lbm/ft	6975.540	7301.790
RAL	FB Start Far	291.900	usec	6975.540	7301.790
RAL	FB Start Near	180.000	usec	6975.540	7301.790
RAL	FB Start Radial	180.000	usec	6975.540	7301.790
RAL	FB Thresh Far	10.000	mv	6975.540	7301.790
RAL	FB Thresh Near	4.000	mv	6975.540	7301.790
RAL	FB Thresh Radial	4.000	mv	6975.540	7301.790
RAL	Fluid Travel Time	200.000	usec/ft	6975.540	7301.727

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5					
1355XA	-5.620	CCL							
1355XA	-1.500	GR							
1355XA	0.000	TEMP							

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

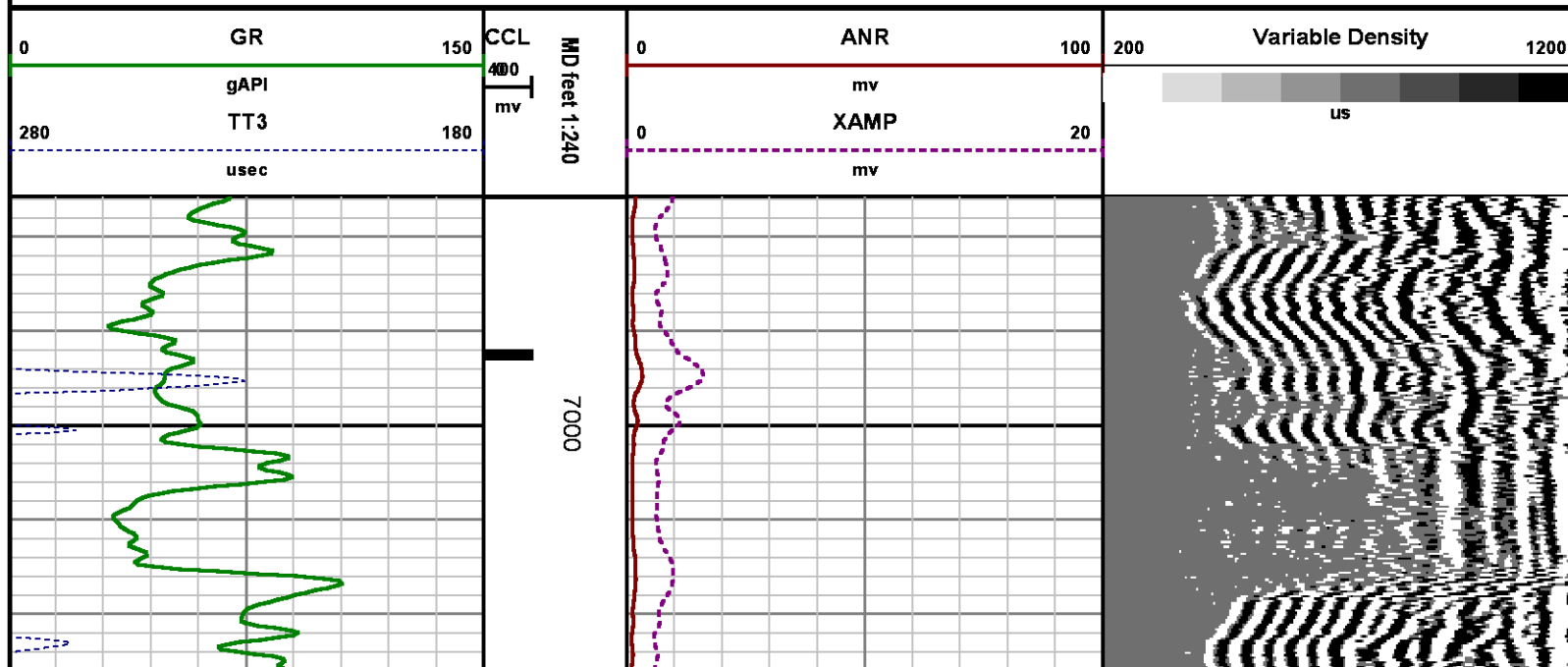
Well : C&C ENERGY GM 344-12

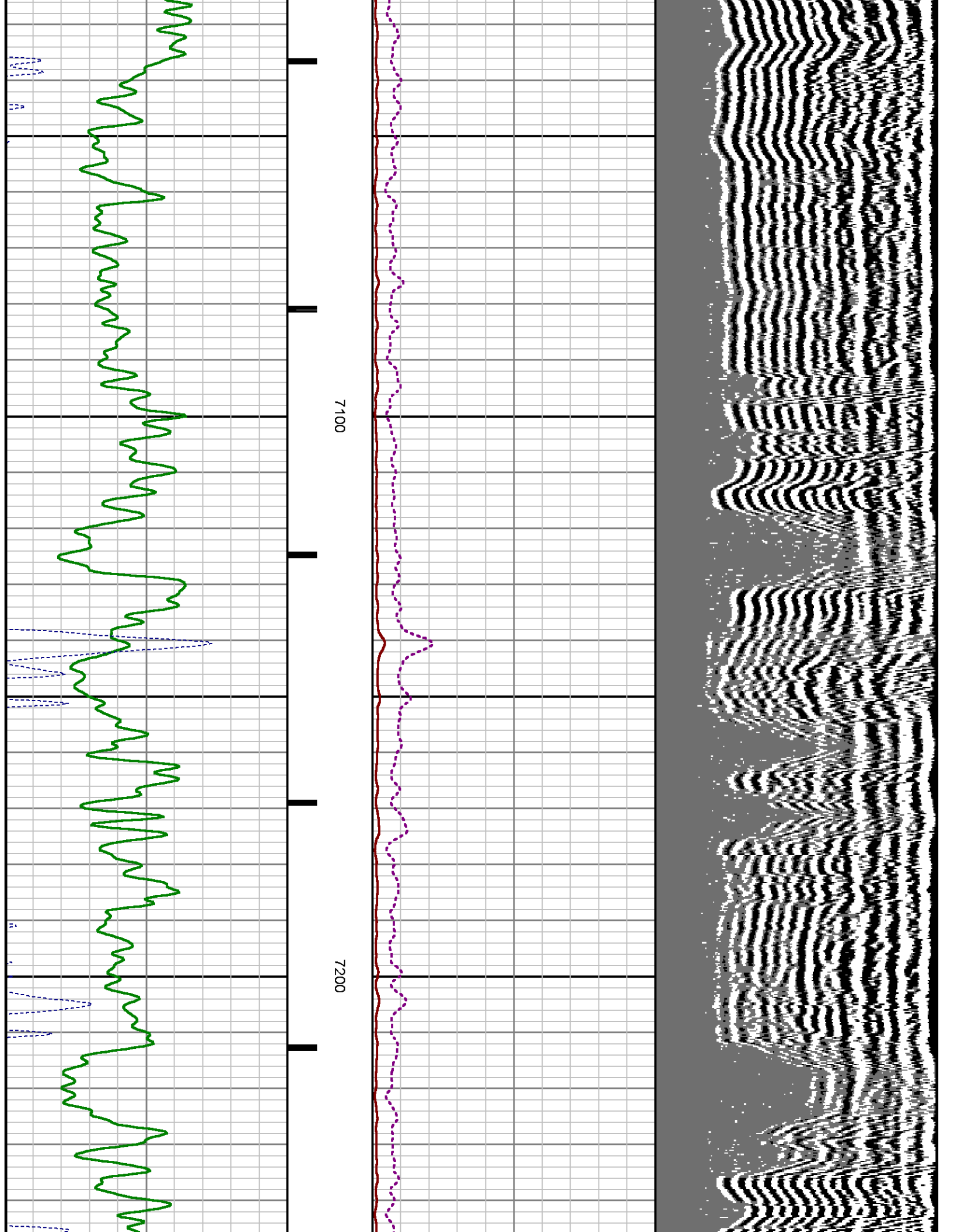
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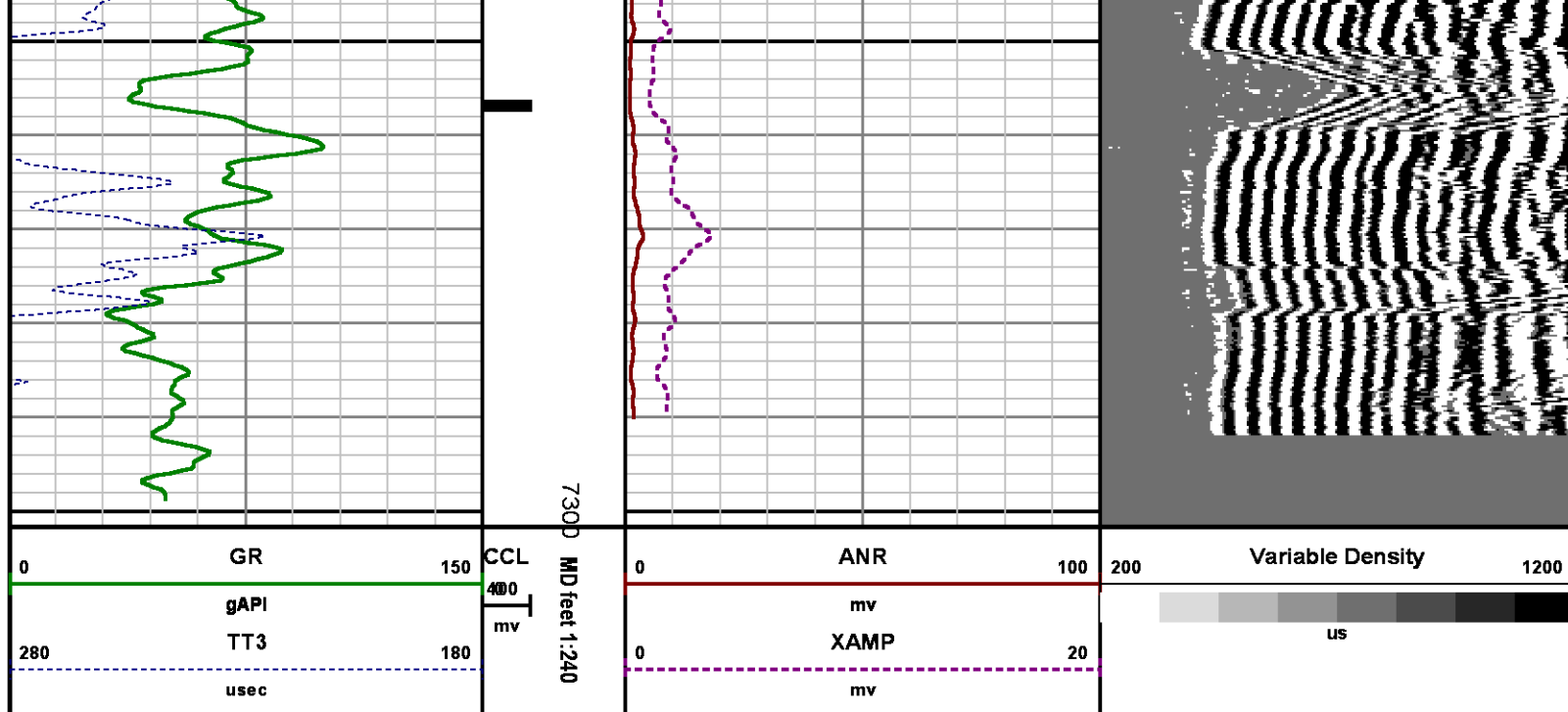
Mode : PlotMgr 5.4.504

Interval : 6975.79 - 7301.79 feet UP

Created : 9/6/2014 10:18:54 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP496SEP5_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Sep 05 08:55:51 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: SEP5

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

RECEIVER	Travel Time [u sec]	Amp. Gate Start [u sec]	Amp. Gate Width [u sec]	Zero Gate Start [u sec]	Zero Gate Width [u sec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	216	216	30	166	25	-0.104	100.00	0.31
3 Ft. Receiver	216	216	30	166	25	2.654	100.00	0.31
5 Ft. Receiver	325	325	30	245	25	-0.049	150.00	0.35
Radial #1	216	216	30	166	25	1.746	100.00	0.31
Radial #2	215	216	30	166	25	1.438	100.00	0.31
Radial #3	215	216	30	166	25	2.742	100.00	0.31
Radial #4	214	216	30	166	25	3.024	100.00	0.31
Radial #5	215	216	30	166	25	1.746	100.00	0.31
Radial #6	216	216	30	166	25	3.051	100.00	0.31
Radial #7	216	216	30	166	25	2.260	100.00	0.31
Radial #8	218	216	30	166	25	2.400	100.00	0.32

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496SEP5 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Sep 05 08:58:30 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: SEP5

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	-0.145	0.000	1.00	100.000
3 Ft. Receiver	195	25	2.396			
5 Ft. Receiver	305	25	3.549			
Radial #1	195	25	1.788			
Radial #2	195	25	1.940			
Radial #3	195	25	2.393			
Radial #4	195	25	2.286			
Radial #5	195	25	2.446			
Radial #6	195	25	2.603			
Radial #7	195	25	2.010			
Radial #8	195	25	1.835			

GAMMA RAY

Calibration File: C:\case\calver\GR\11871510A1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 15 09:48:50 2014 TOOL SERIES: 1355XA ASSET: 11871510 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	78.09	460.84	0.483	37.74	222.74	185.00

Verification File: C:\case\calver\GR\11871510A1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Fri Aug 15 09:50:00 2014 TOOL SERIES: 1355XA ASSET: 11871510 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	85.91	455.51	0.483	41.52	220.17	178.64

TOOL DIAGRAM

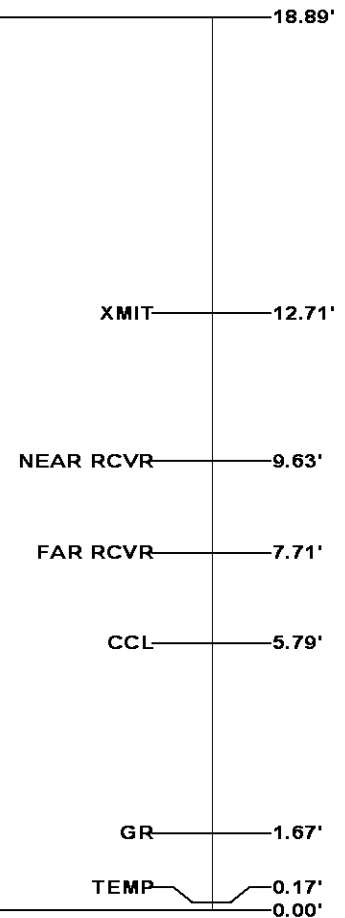
OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

Series 1426XA
Mnemonic PROB
Diameter 2.75"
Length 11.17'
 Measure Point 0.75' FAR RCVR
 Measure Point 2.67' NEAR RCVR
 Measure Point 5.75' XMIT
Temp Rating 350.00 °F
Press Rating 18000.00 PSI

RAL GR/TEMP/CCL/CHV DETECTOR

Series 1355XA
Mnemonic RAL
Diameter 2.75"
Weight 85.00 lb
Length 6.96'
 Measure Point 0.17' TEMP
 Measure Point 1.67' GR
 Measure Point 5.79' CCL
Temp Rating 400.00 °F
Press Rating 20000.00 PSI



Total Length: 18.89'

Total Weight: Not Available

Max Diameter: 0' 2.75"



Baker Atlas

CASE

Company

WPX ENERGY

Well

C&C ENERGY GM 344-12

Field

GRAND VALLEY

County

GARFIELD

State

COLORADO

Location

SHL: 270' FSL & 1046' FWL

BHT: 807' FSL & 1272' FEL (SESE)

Elevations

KB 5165 ft

DF

GL 5141 ft

File No:

CH089915

API No:

05045224290000

12 7S 96W

GM 24-12 PAD

H&P 318

SEC 12 TWP 7S RGE 96W