



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH089575 Company WPX ENERGY

Well HICKS PA 33-6

API No: PARACHUTE

County GARFIELD State COLORADO

05045224130000

Location

SHL: 875' FSL & 2245' FWL

BHL: 2131' FSL & 1684' FEL (NWSE)

SEC 6 TWP 7S RGE 9SW

Other Services

RPM

Permanent Datum GL Elevation 5135 ft

Log Measured From KB 25 ft Above P. D.

Drill Measured From KELLY BUSHING

Elevations

KB 5160 ft

DF

GL 5135 ft

Date	19/AUG/14	
Run	ONE	
Service Order	US089575J	
Depth Driller	6913 ft	
Depth Logger	6873 ft	
Bottom Logged Interval	6863 ft	
Top Logged Interval	25 ft	
Time Started	0900	
Time Finished	1200	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
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	209 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	4271	GRAND JCT
Recorded By	FLYOD RENEAU	
Witnessed By	DUSTIN WELSH	

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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	1111 ft
8.75 in	1111 ft	6913 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			25 ft	1111 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	6913 ft

Remarks

All data on this log is shifted using the GCL curve to put the wellhead (top GCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 5.5 feet.
Logged with zero PSI at wellhead.

BHT = 209 °F

SJ = 3710'-3731'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	1355XA	11871510	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	29.856	485.500
RAL	Amp Gate Start Near	195.000	usec	29.856	485.500
RAL	Amp Gate Start Radial	195.000	usec	29.856	485.500
RAL	Amp Gate Width Far	25.000	usec	29.856	485.500
RAL	Amp Gate Width Near	25.000	usec	29.856	485.500
RAL	Amp Gate Width Radial	25.000	usec	29.856	485.500
RAL	casing od	4.500	inches	29.856	485.500
RAL	casing wt	11.600	lbm/ft	29.856	485.500
RAL	FB Start Far	291.900	usec	29.856	485.500
RAL	FB Start Near	180.000	usec	29.856	485.500
RAL	FB Start Radial	180.000	usec	29.856	485.500
RAL	FB Thresh Far	10.000	mv	29.856	485.500
RAL	FB Thresh Near	4.000	mv	29.856	485.500
RAL	FB Thresh Radial	4.000	mv	29.856	485.500
RAL	Fluid Travel Time	200.000	usec/ft	29.856	485.500
RAL	Amp Gate Start Far	310.000	usec	485.500	6595.500
RAL	Amp Gate Start Near	195.000	usec	485.500	6595.500
RAL	Amp Gate Start Radial	195.000	usec	485.500	6595.500
RAL	Amp Gate Width Far	25.000	usec	485.500	6595.500
RAL	Amp Gate Width Near	25.000	usec	485.500	6595.500
RAL	Amp Gate Width Radial	25.000	usec	485.500	6595.500
RAL	casing od	4.500	inches	485.500	6595.500
RAL	casing wt	11.600	lbm/ft	485.500	6595.500
RAL	FB Start Far	291.900	usec	485.500	6595.500
RAL	FB Start Near	180.000	usec	485.500	6595.500
RAL	FB Start Radial	180.000	usec	485.500	6595.500
RAL	FB Thresh Far	10.000	mv	485.500	6595.500

RAL	FB Thresh Near	4.000	mv	485.500	6595.500
RAL	FB Thresh Radial	4.000	mv	485.500	6595.500
RAL	Fluid Travel Time	200.000	usec/ft	485.500	6595.500
RAL	Amp Gate Start Far	310.000	usec	6595.500	6875.500
RAL	Amp Gate Start Near	195.000	usec	6595.500	6875.500
RAL	Amp Gate Start Radial	195.000	usec	6595.500	6875.500
RAL	Amp Gate Width Far	25.000	usec	6595.500	6875.500
RAL	Amp Gate Width Near	25.000	usec	6595.500	6875.500
RAL	Amp Gate Width Radial	25.000	usec	6595.500	6875.500
RAL	casing od	4.500	inches	6595.500	6875.500
RAL	casing wt	11.600	lbm/ft	6595.500	6875.500
RAL	FB Start Far	291.900	usec	6595.500	6875.500
RAL	FB Start Near	180.000	usec	6595.500	6875.500
RAL	FB Start Radial	180.000	usec	6595.500	6875.500
RAL	FB Thresh Far	10.000	mv	6595.500	6875.500
RAL	FB Thresh Near	4.000	mv	6595.500	6875.500
RAL	FB Thresh Radial	4.000	mv	6595.500	6875.500
RAL	Fluid Travel Time	200.000	usec/ft	6595.500	6875.500

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

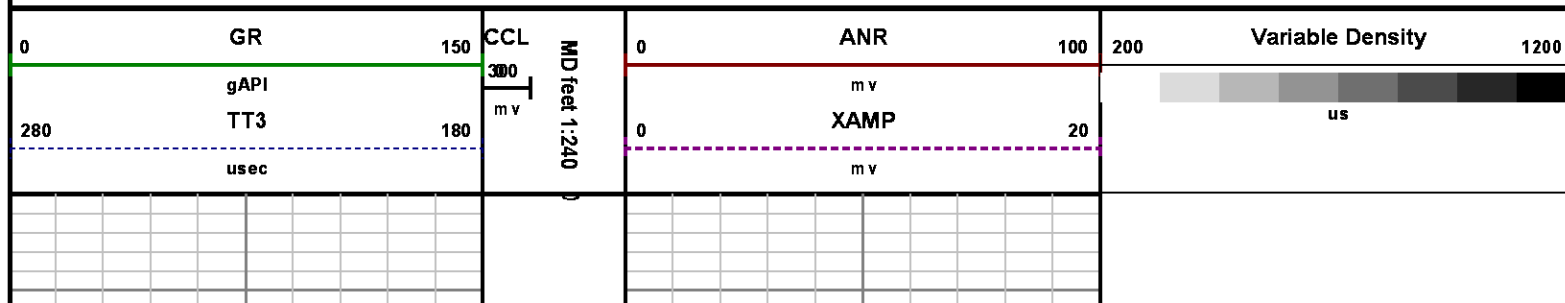
Well : HICKS PA 33-6

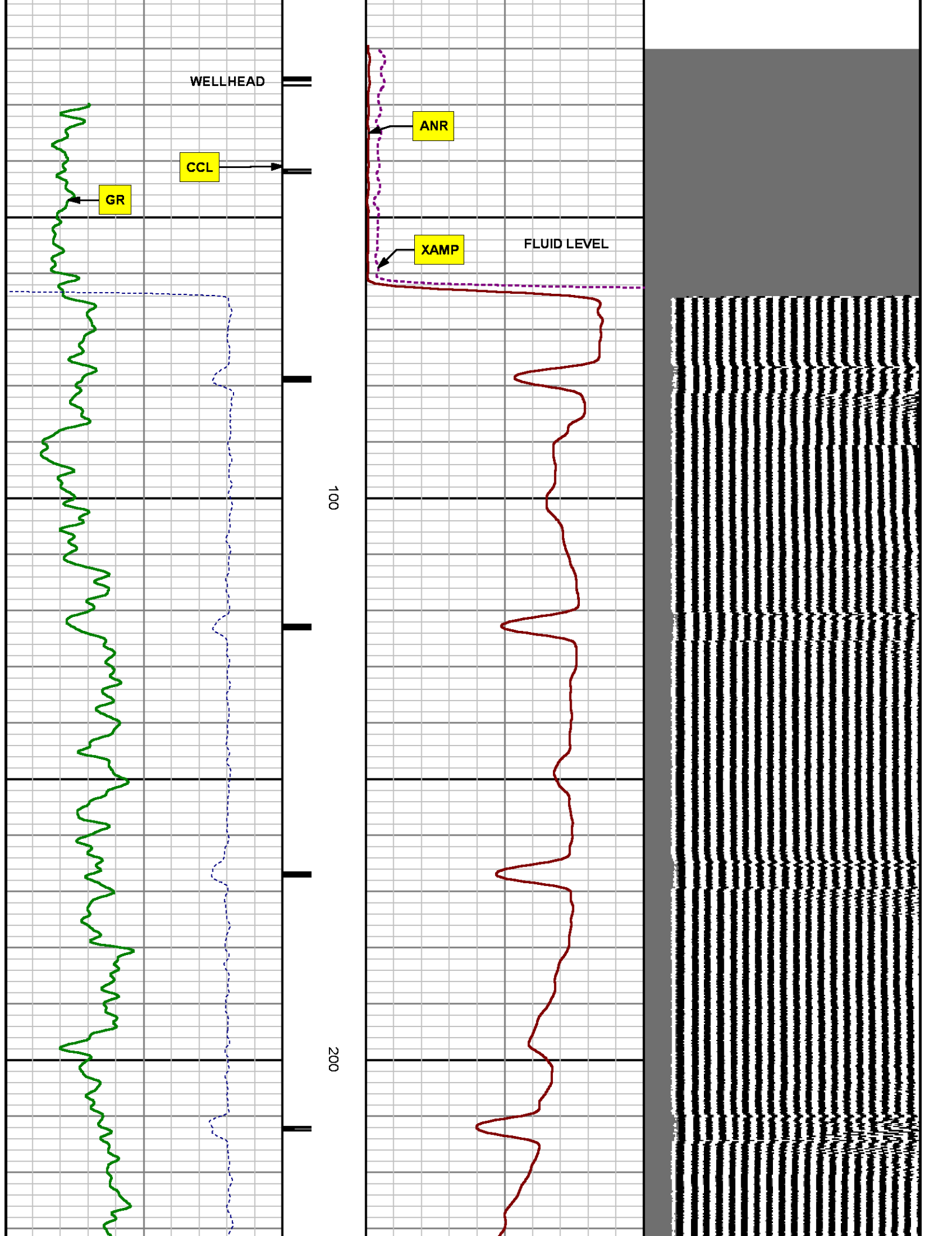
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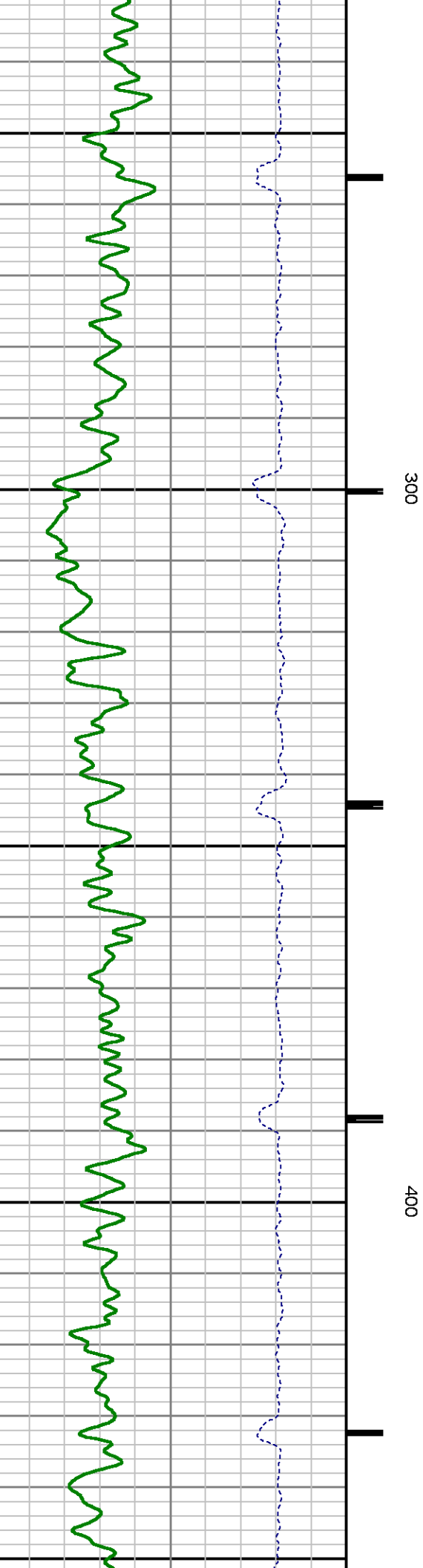
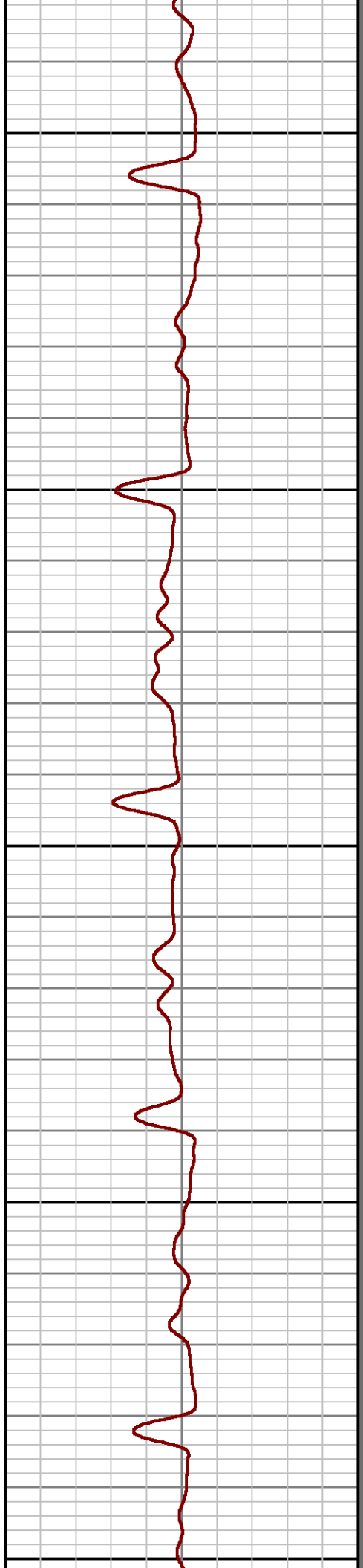
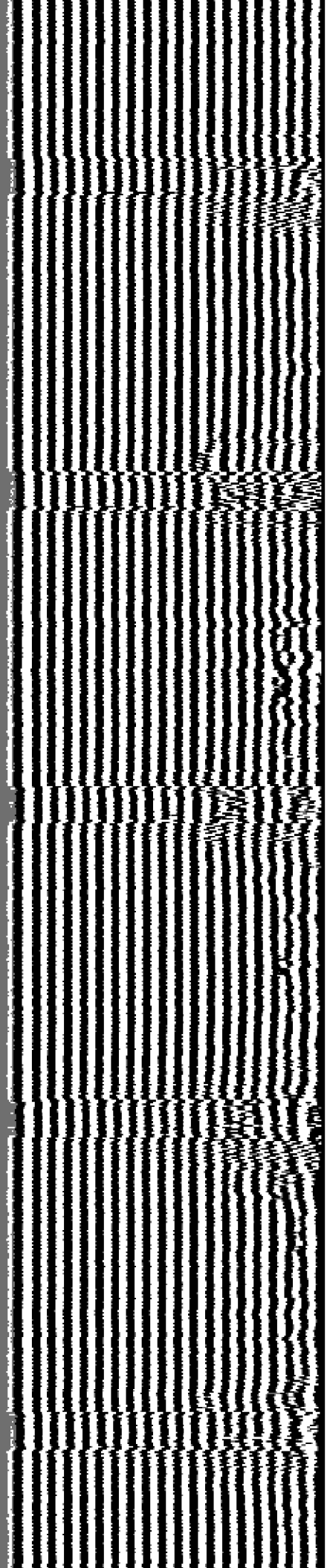
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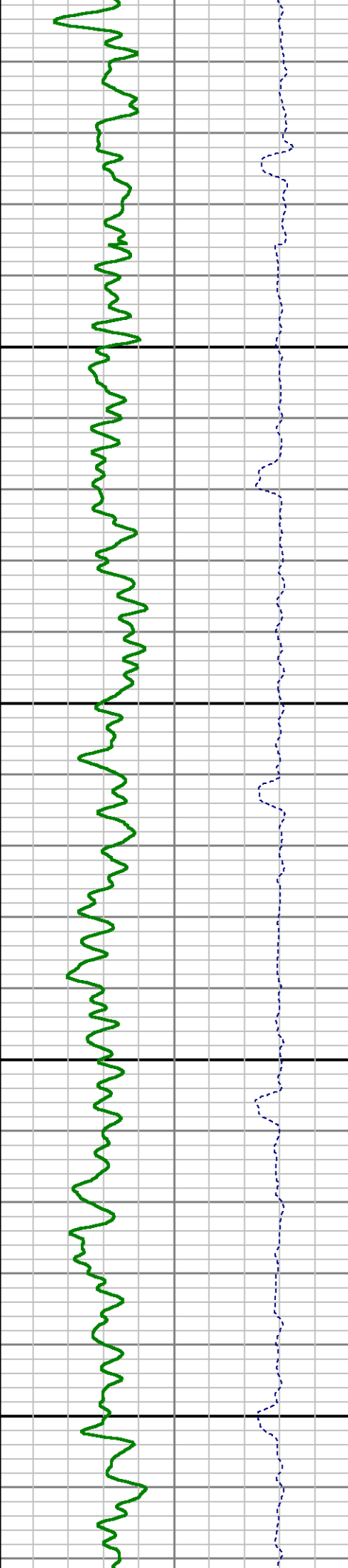
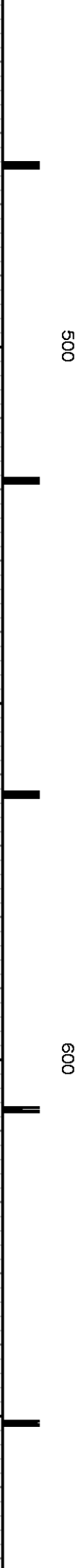
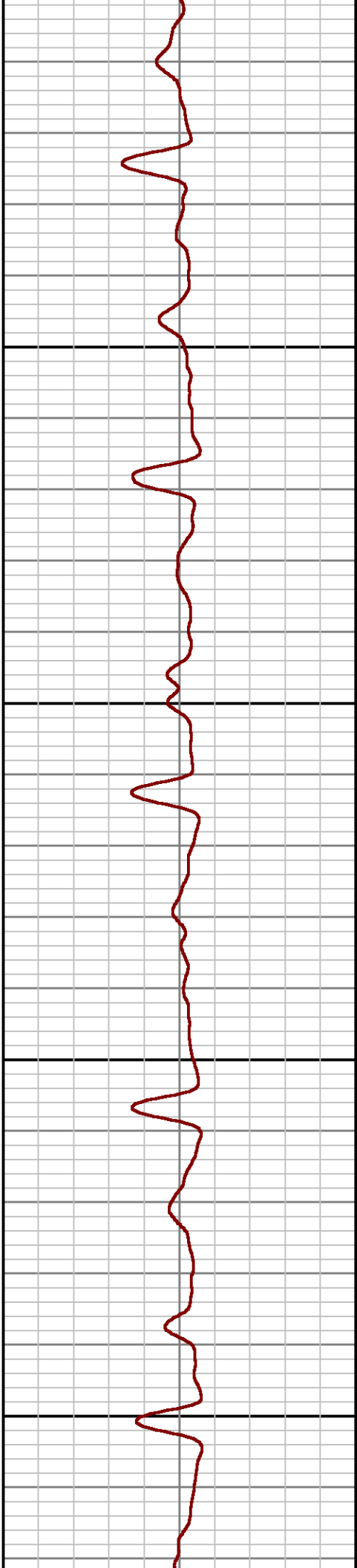
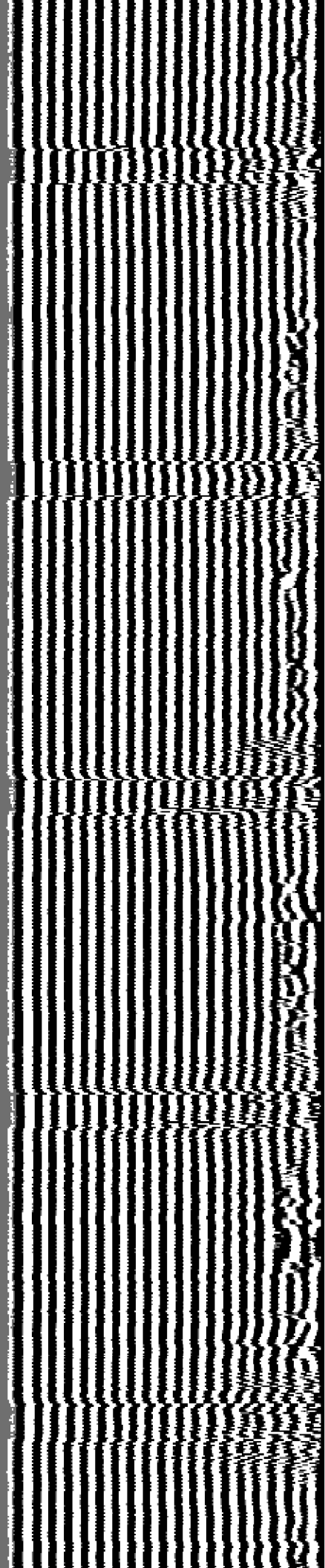
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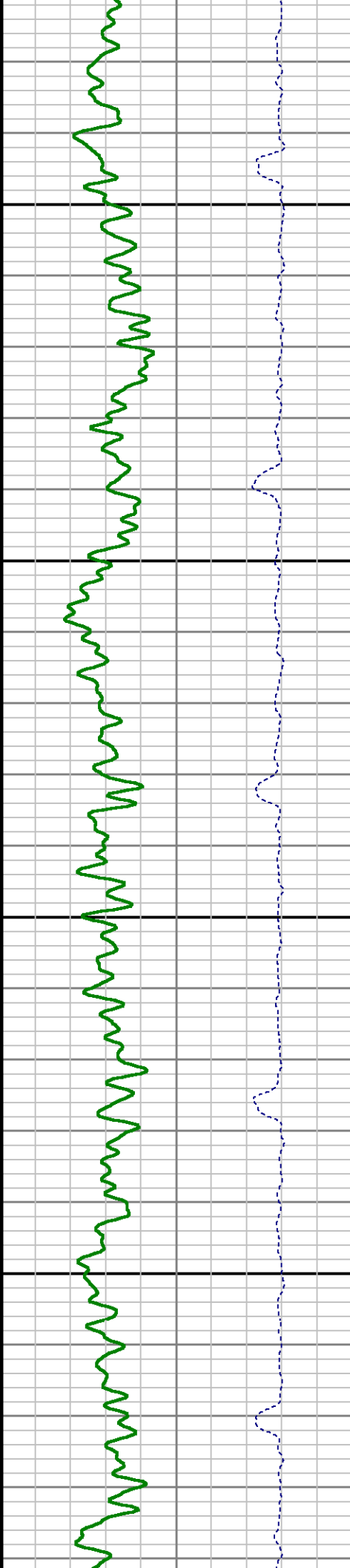
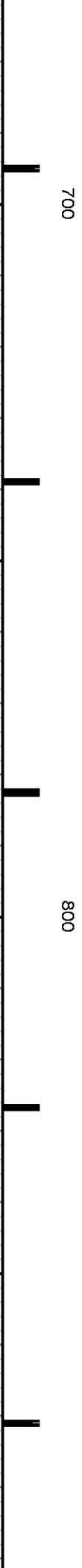
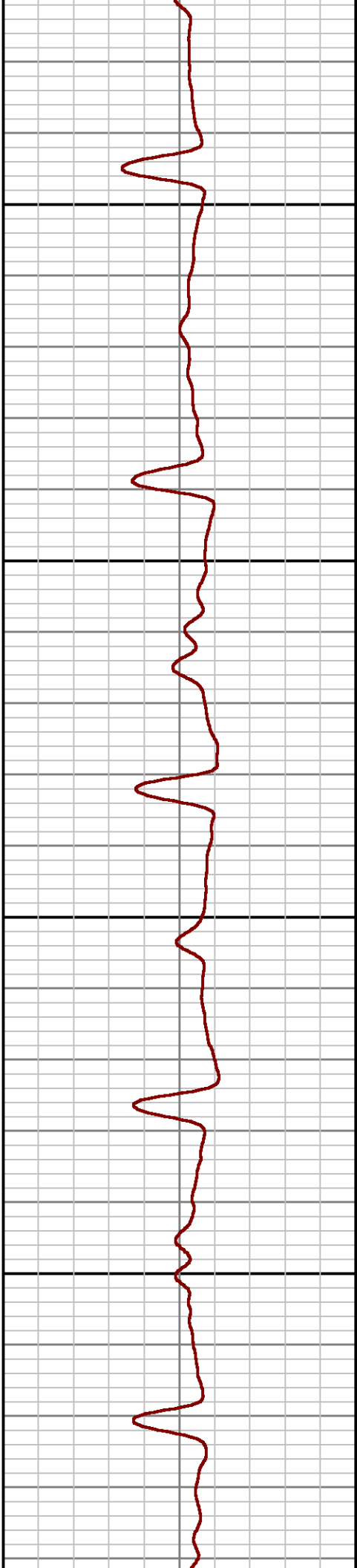
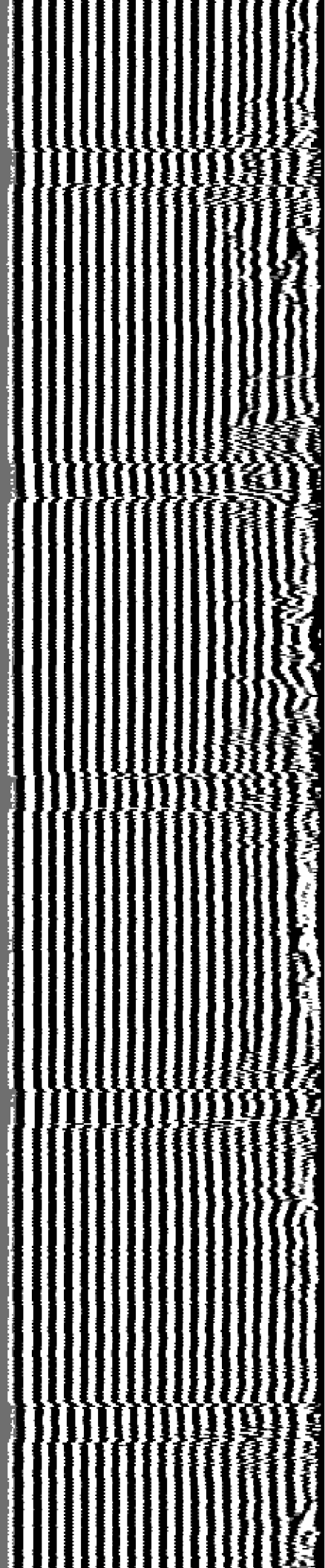
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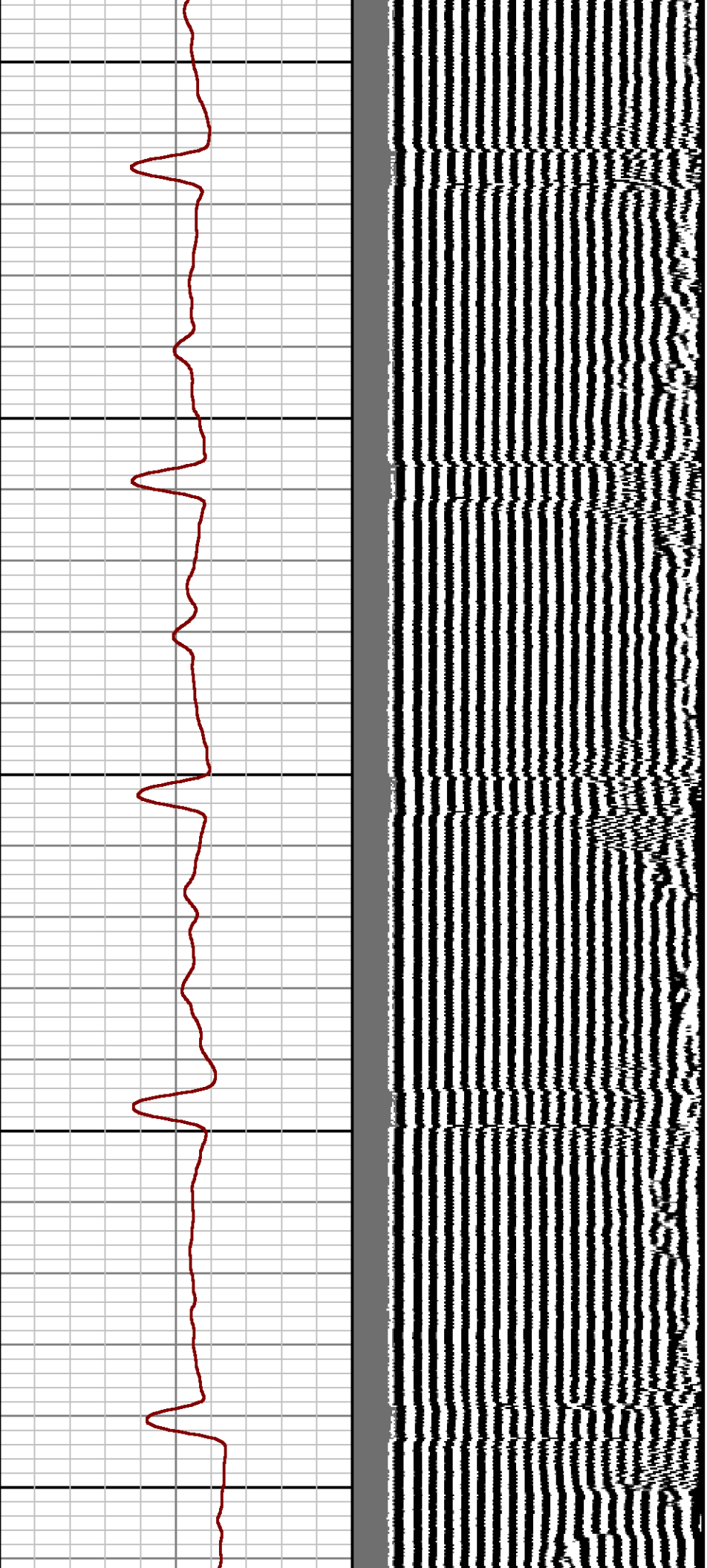








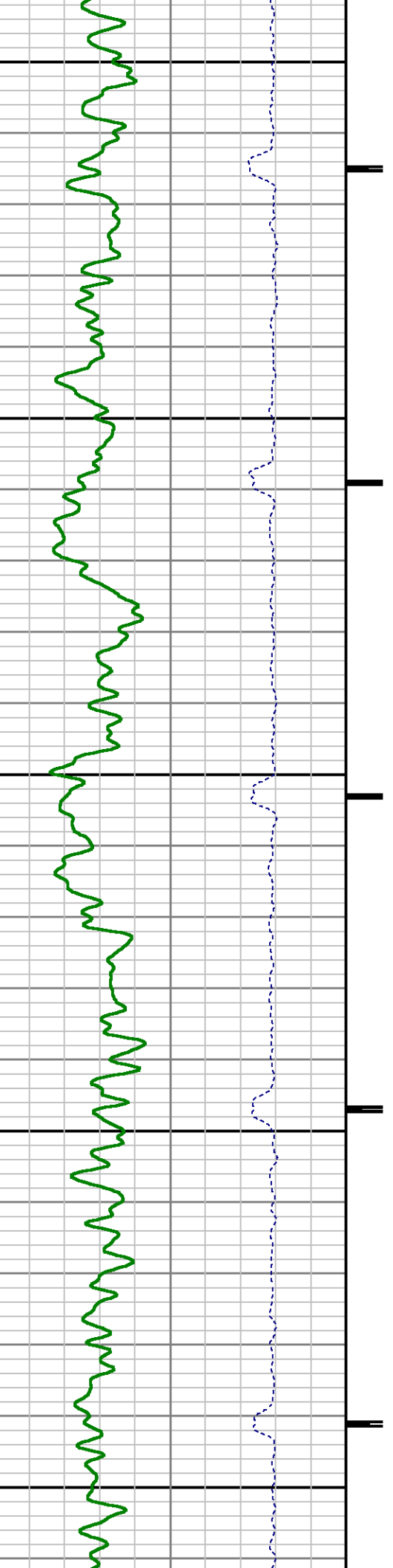


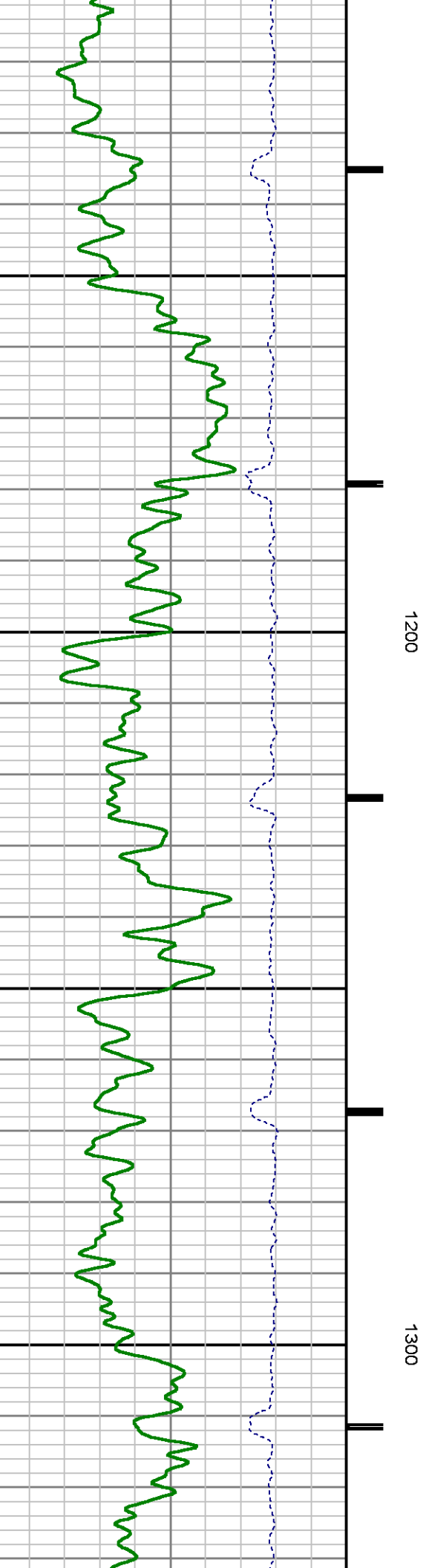
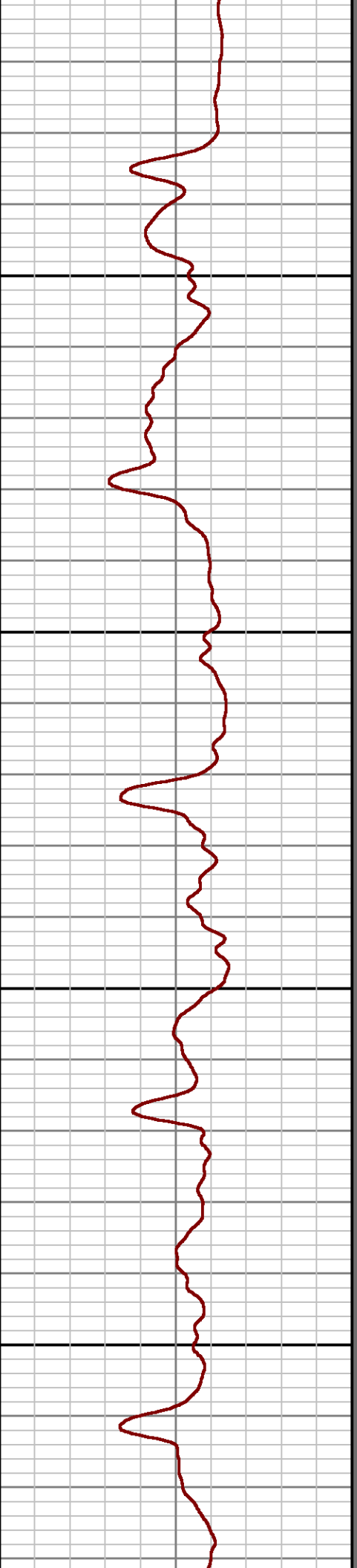
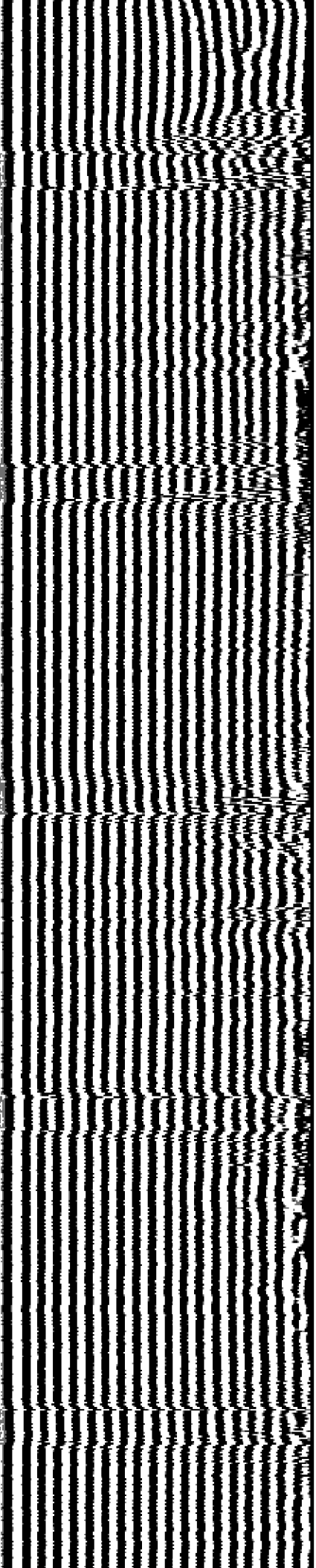


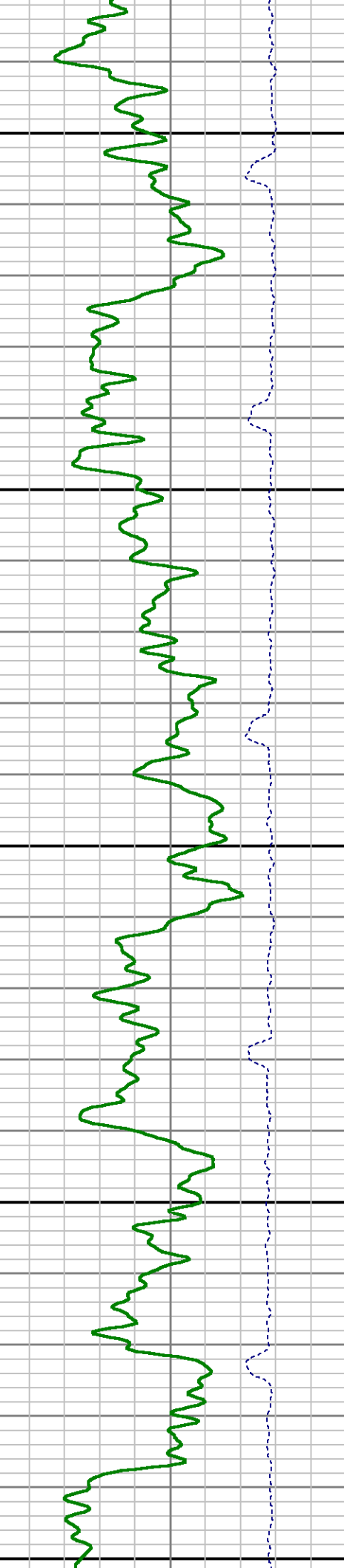
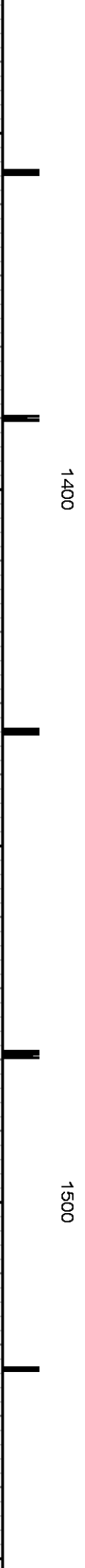
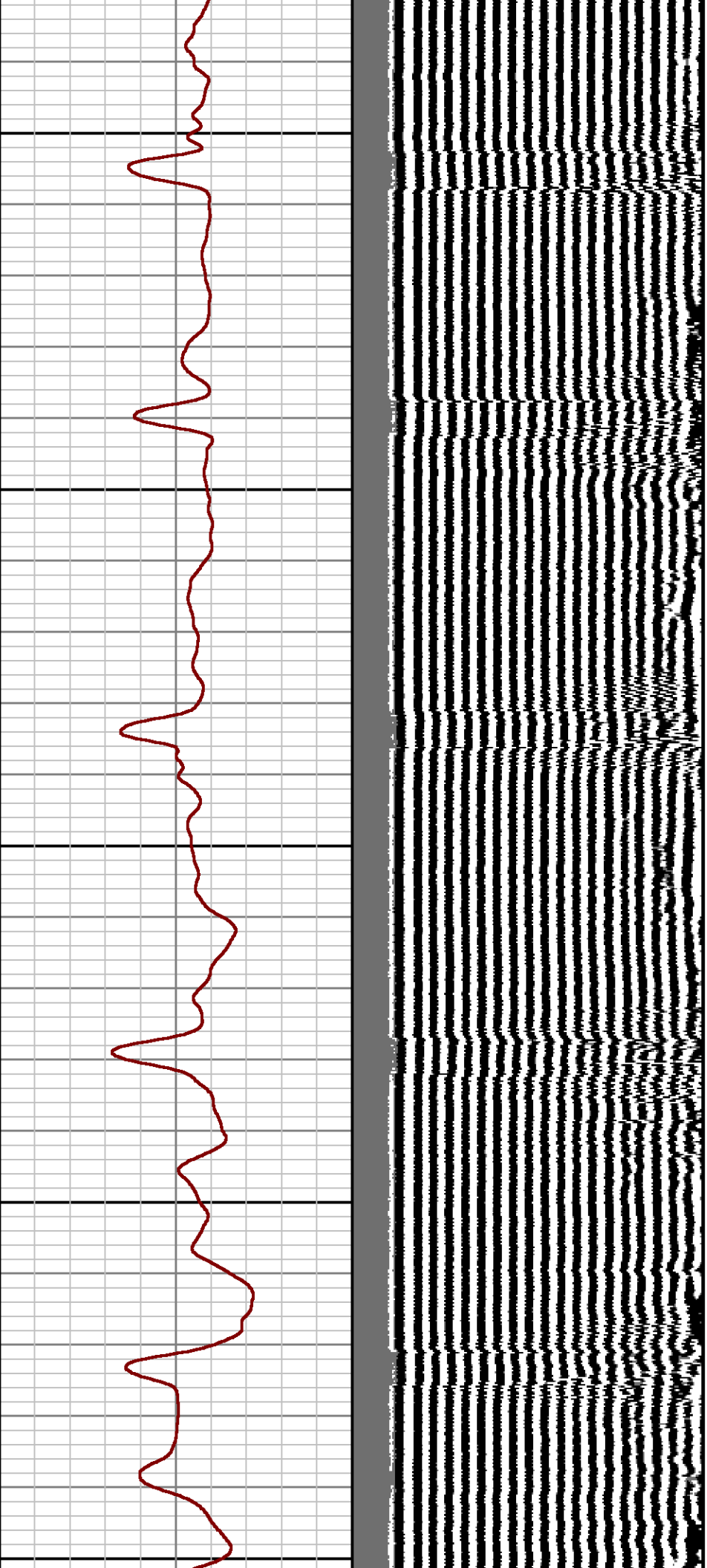
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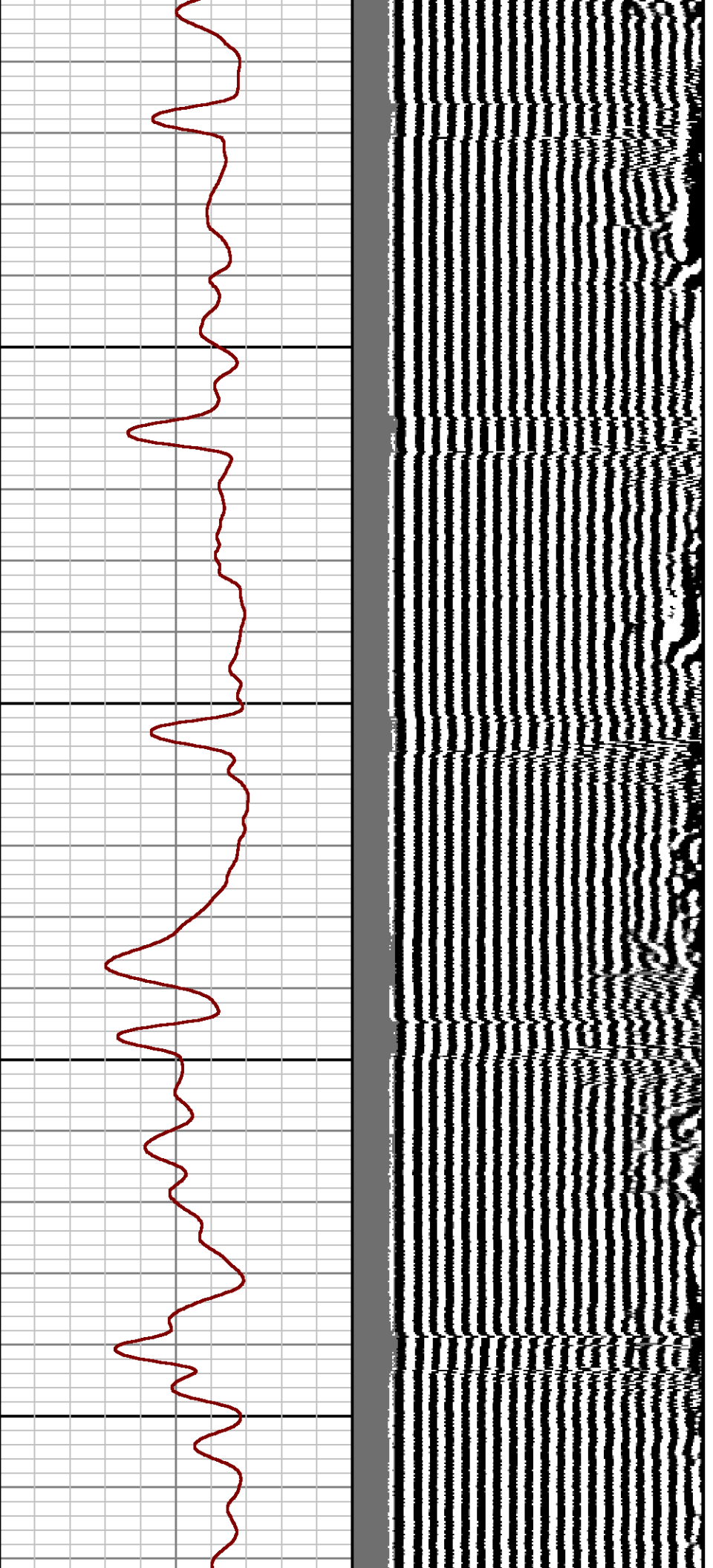
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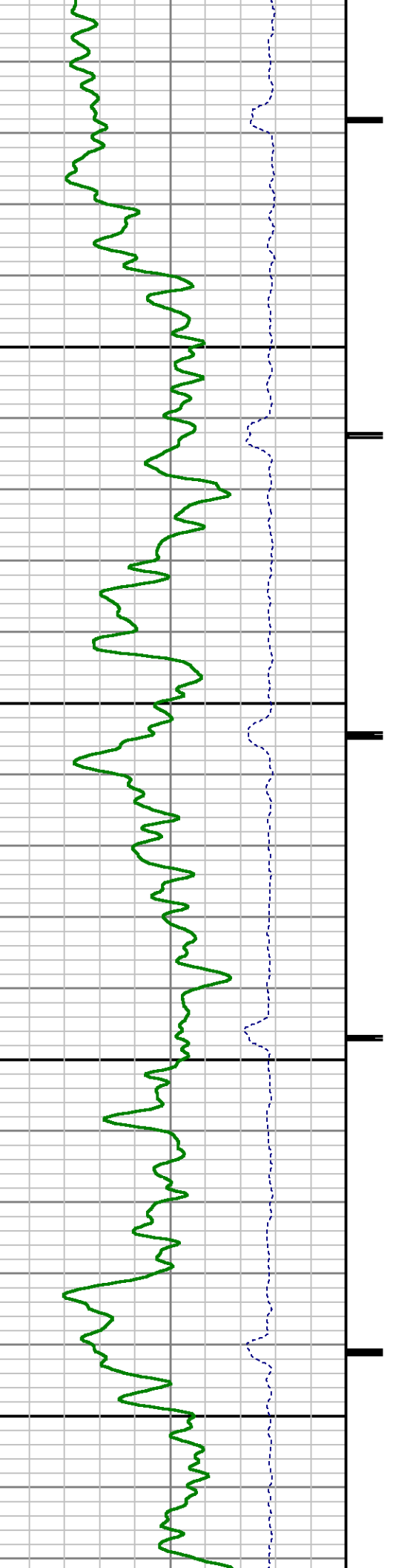


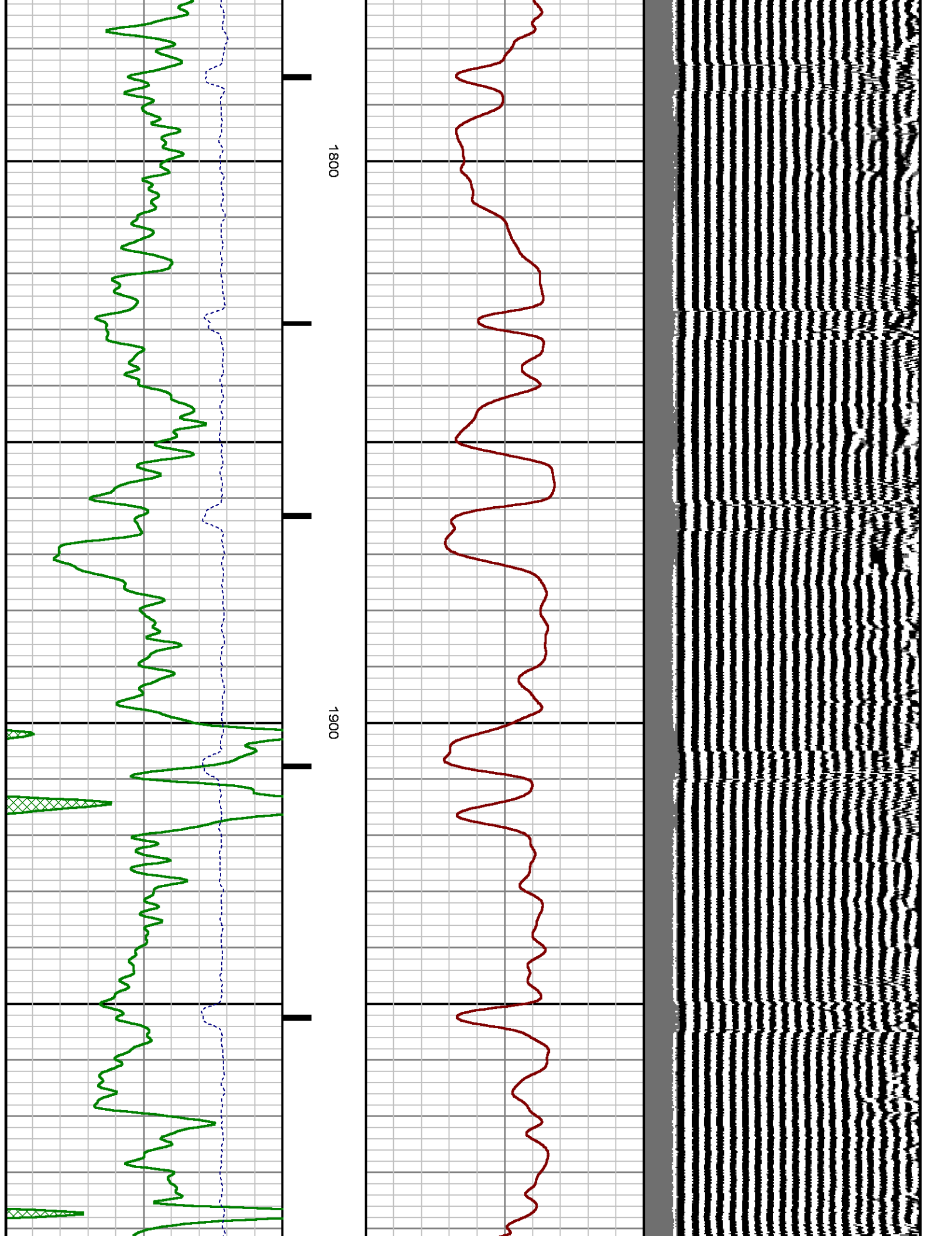


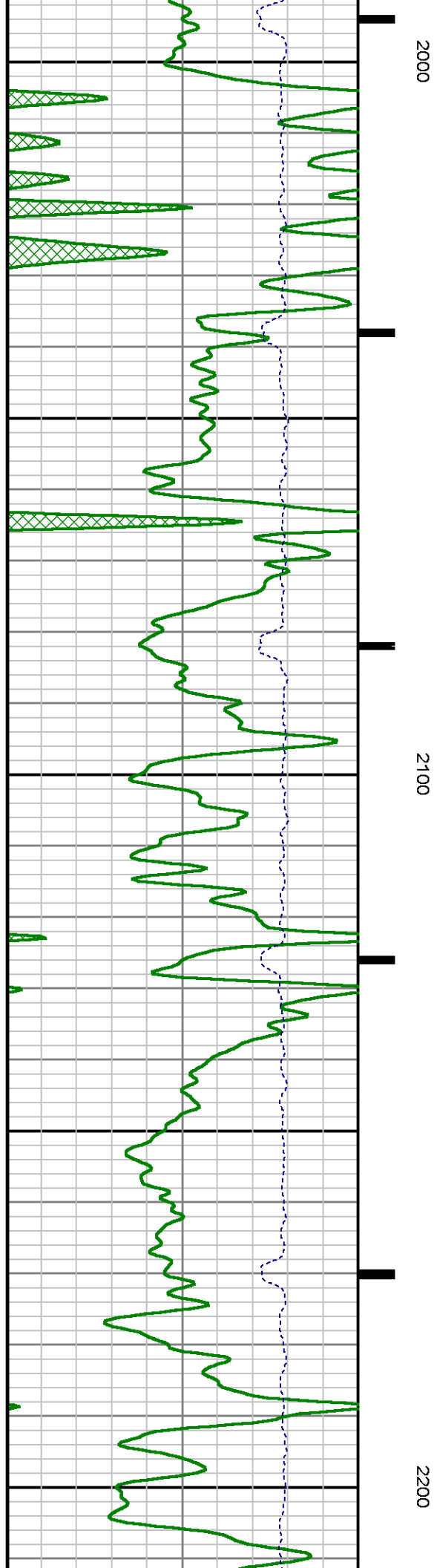
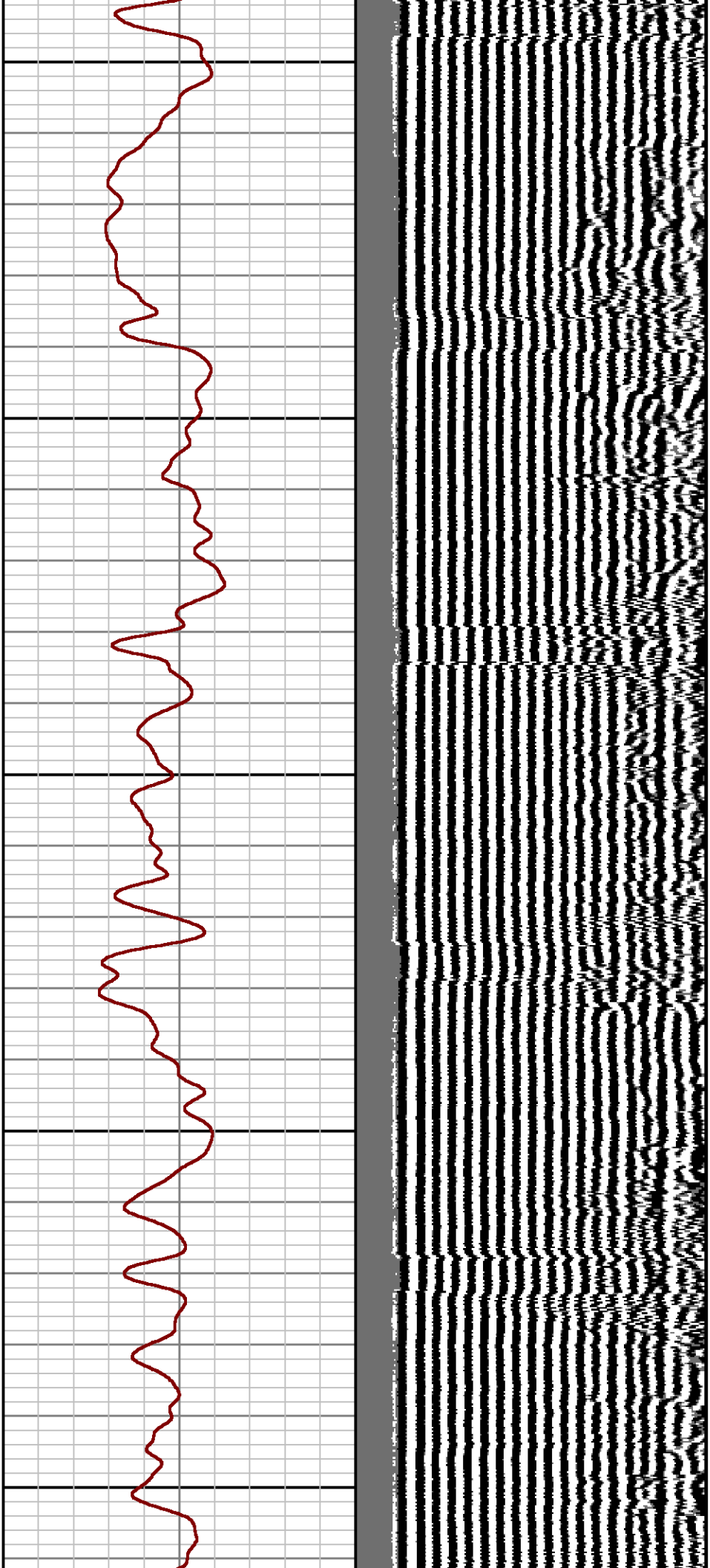


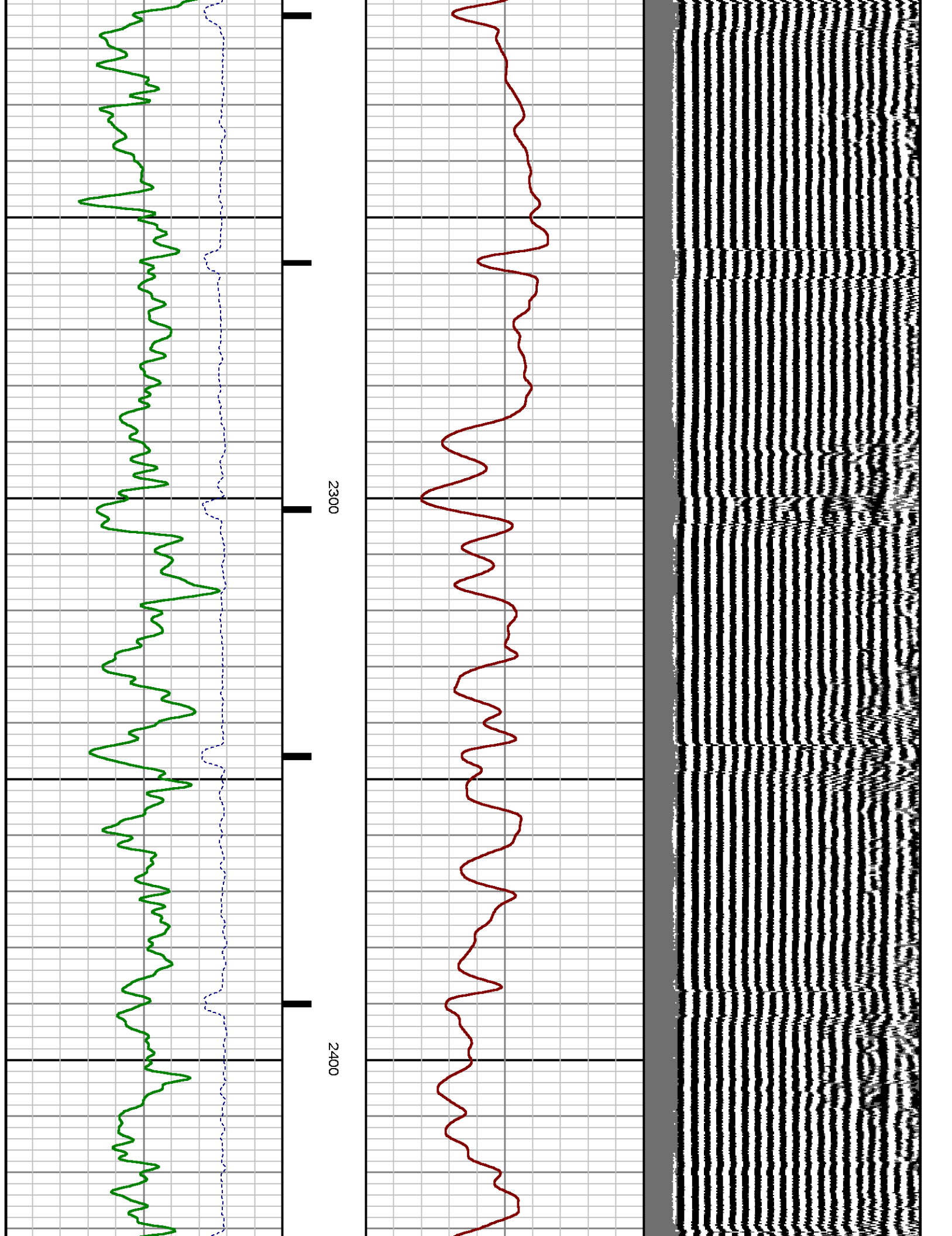
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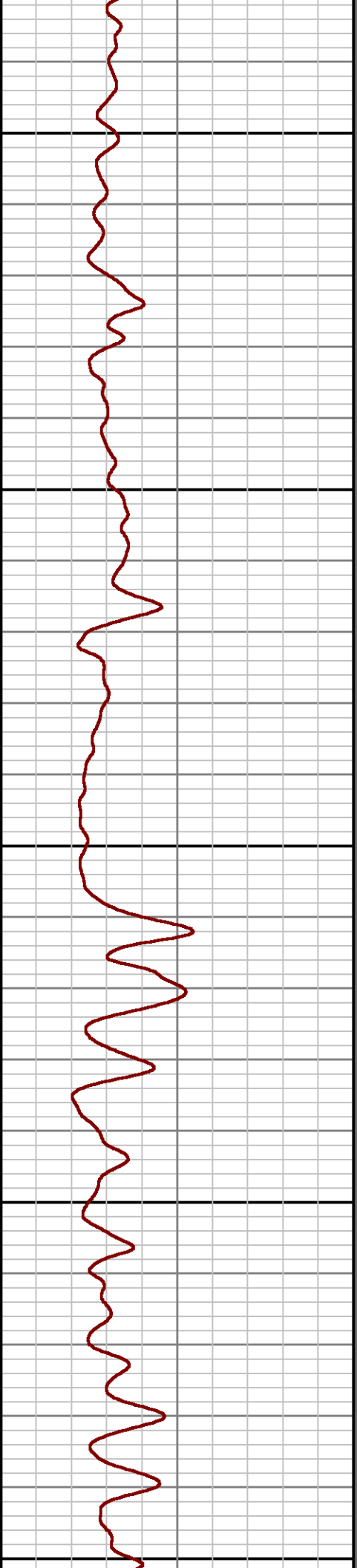
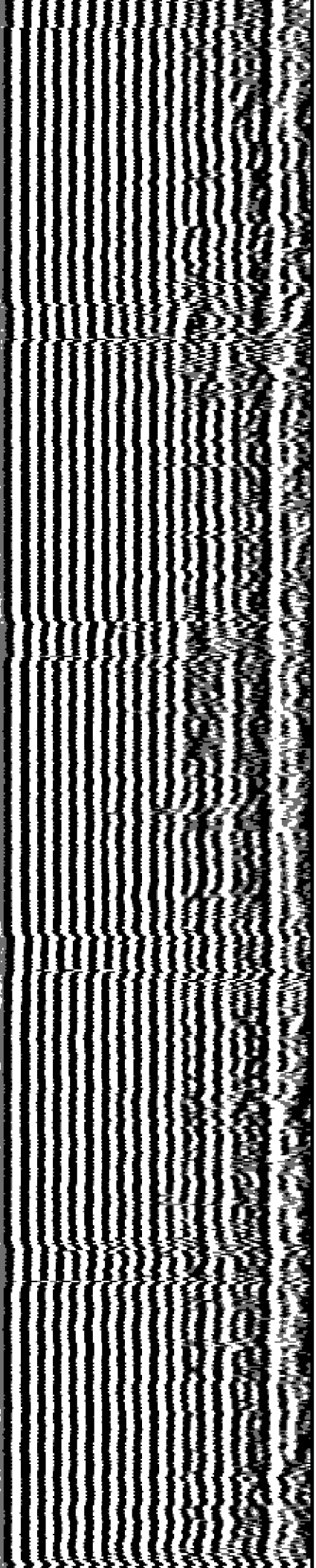
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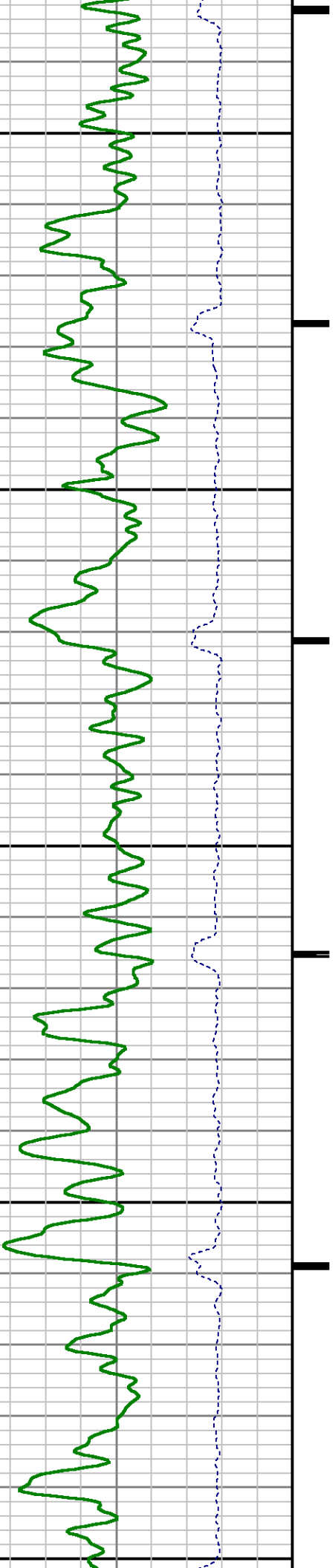


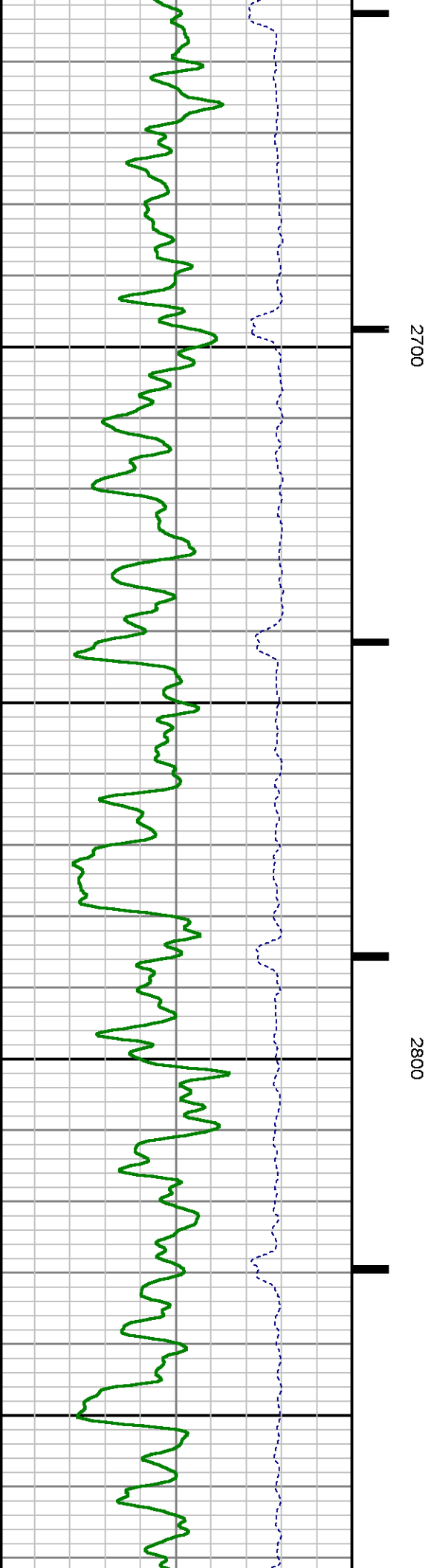
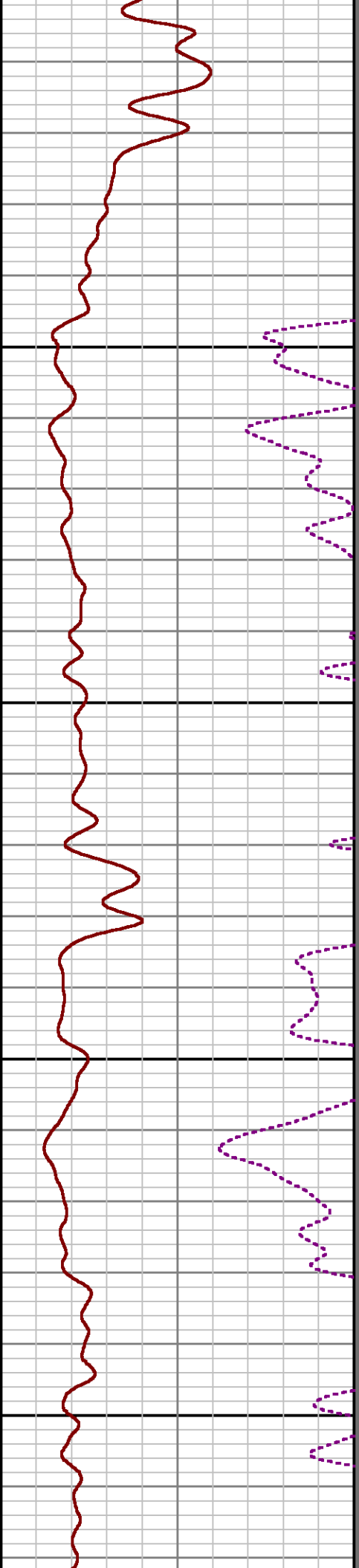
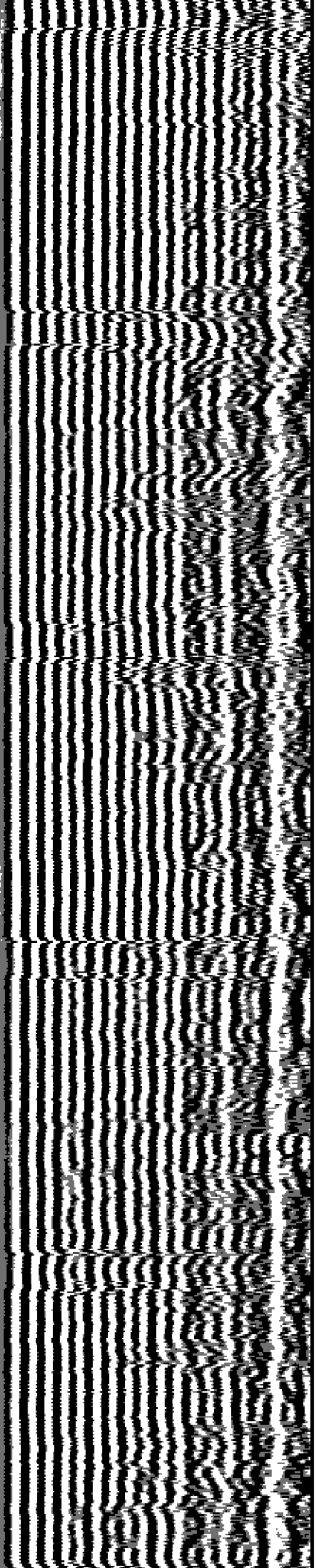


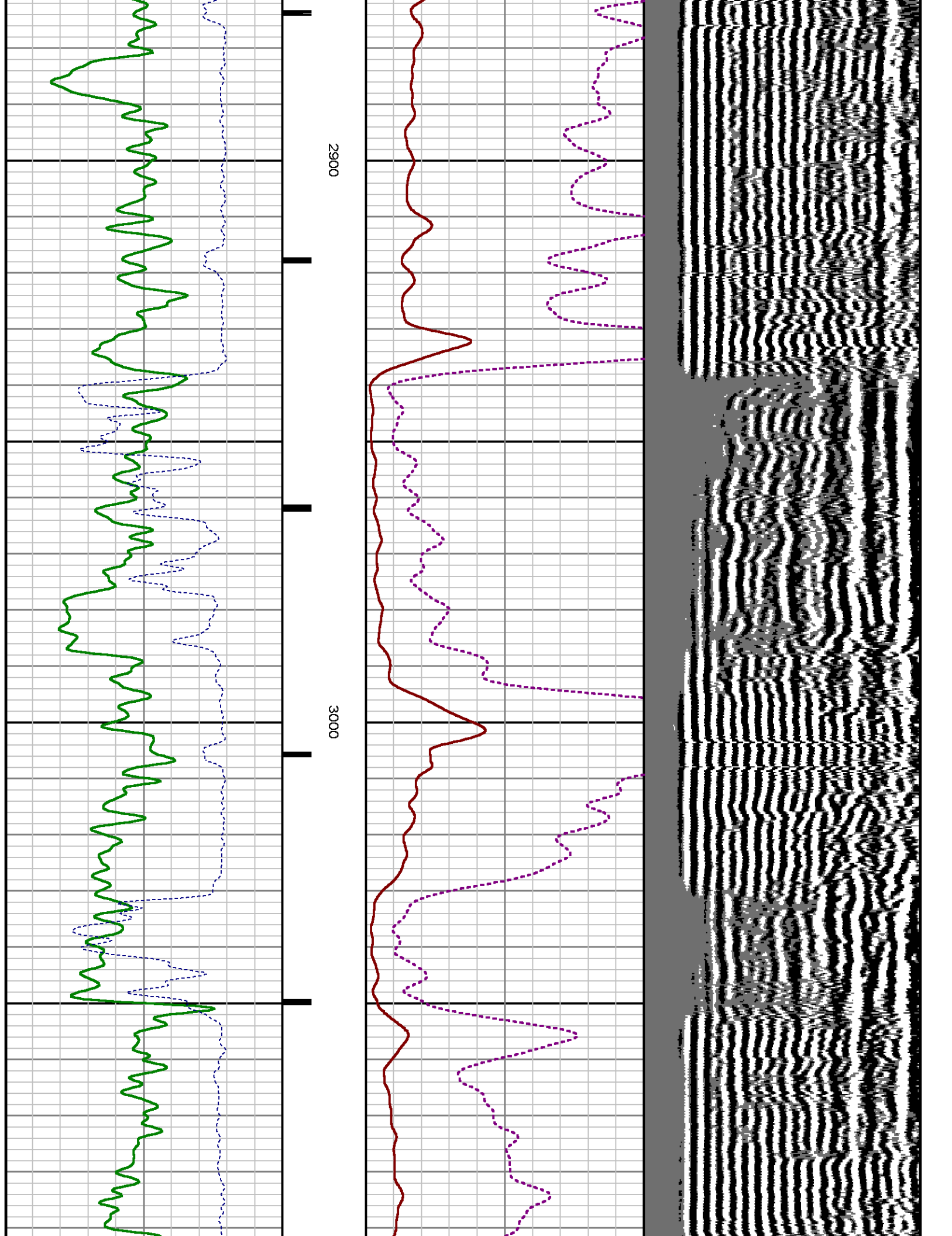


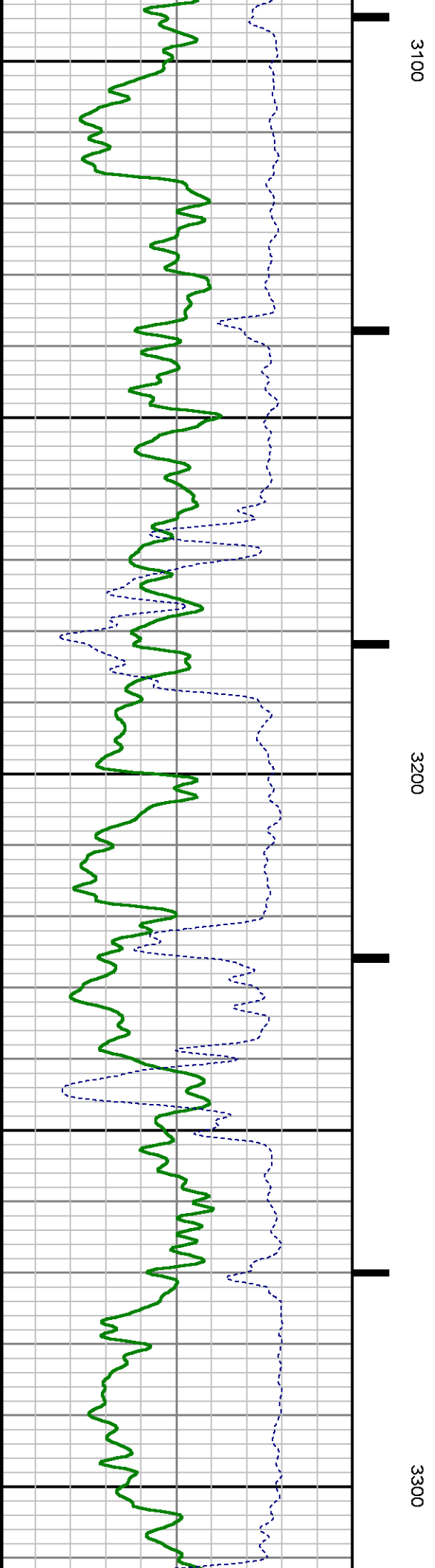
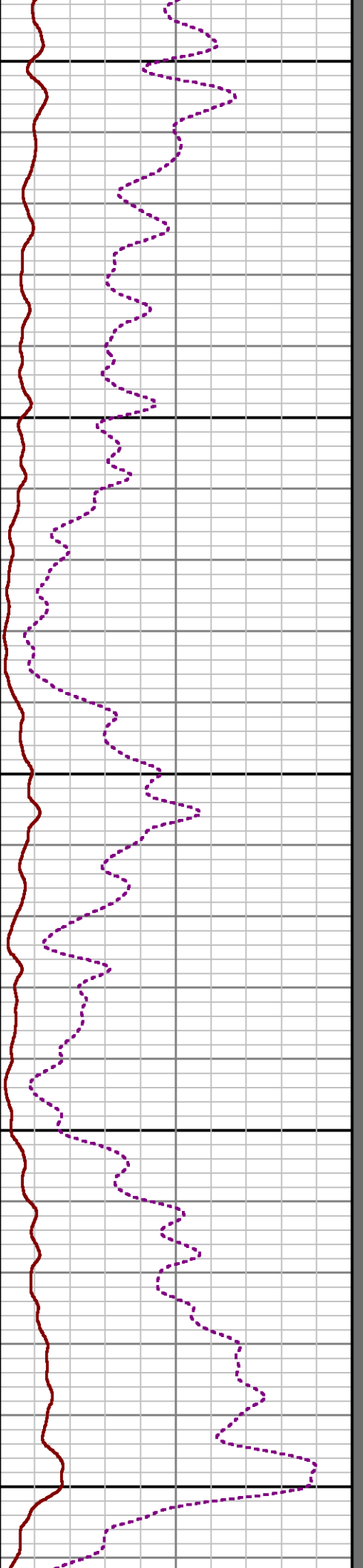
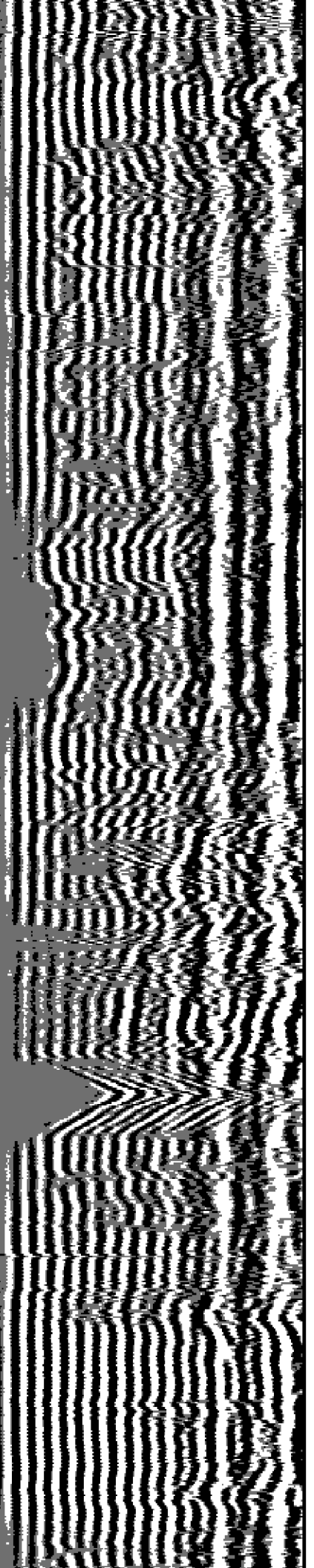
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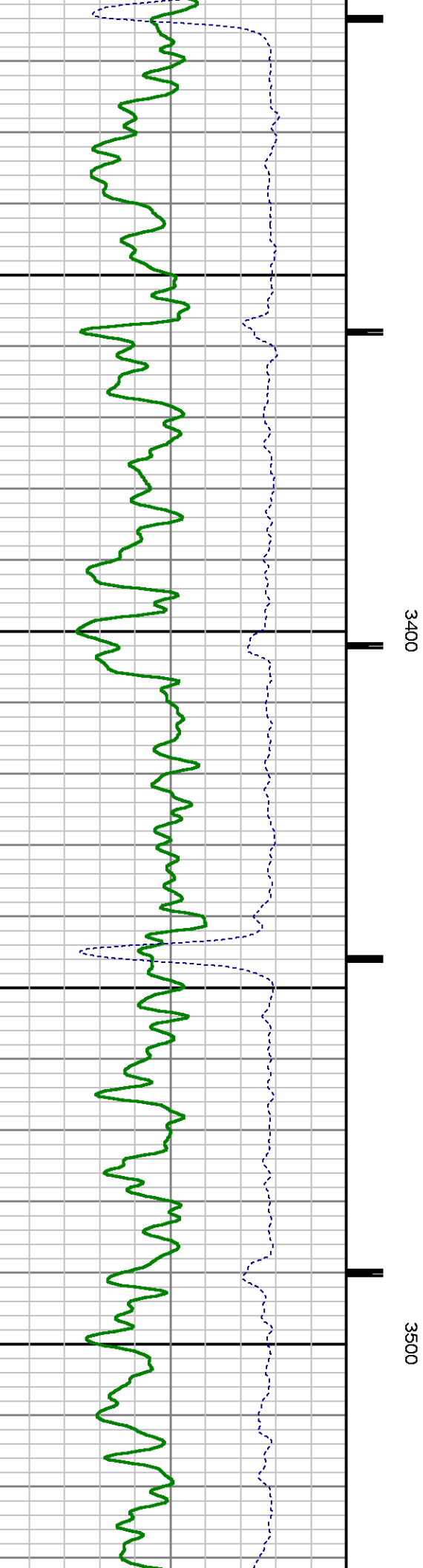
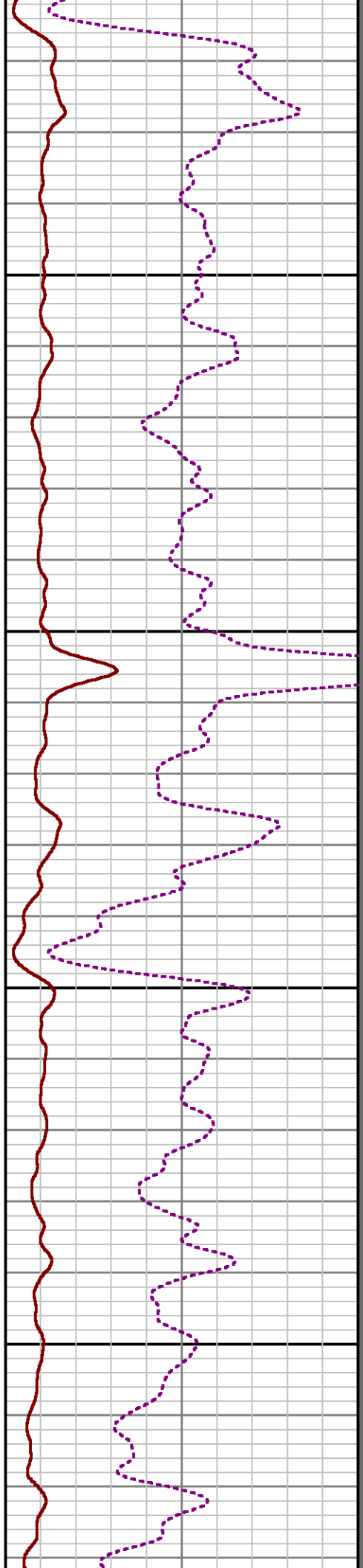
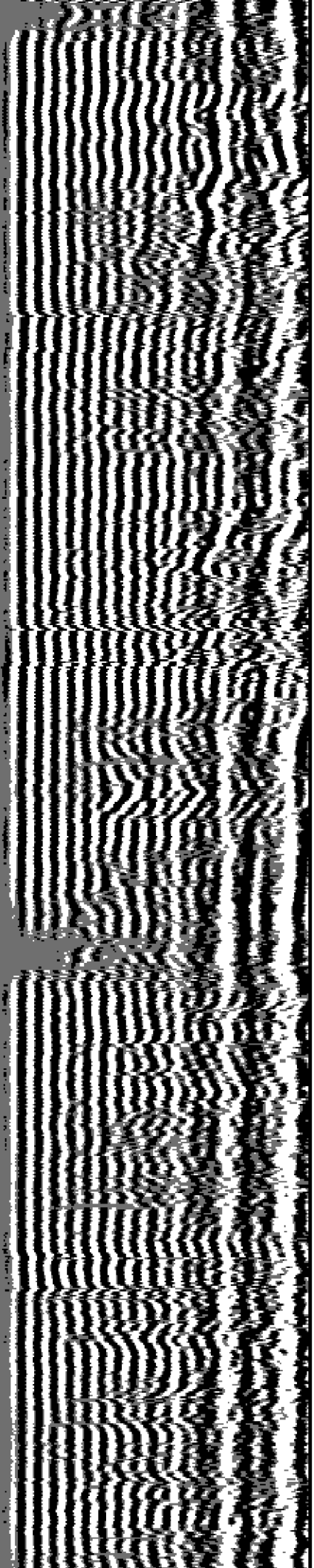
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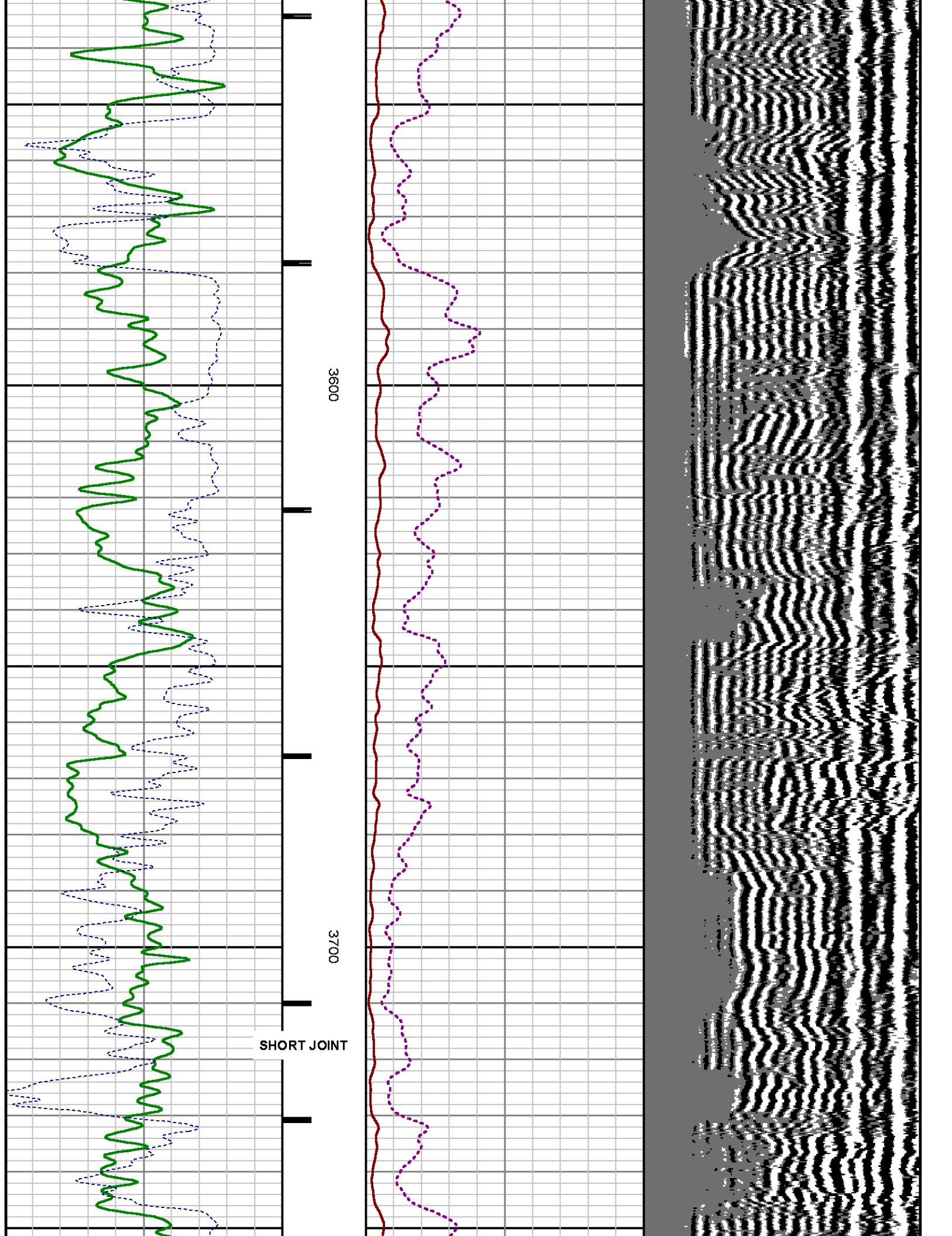


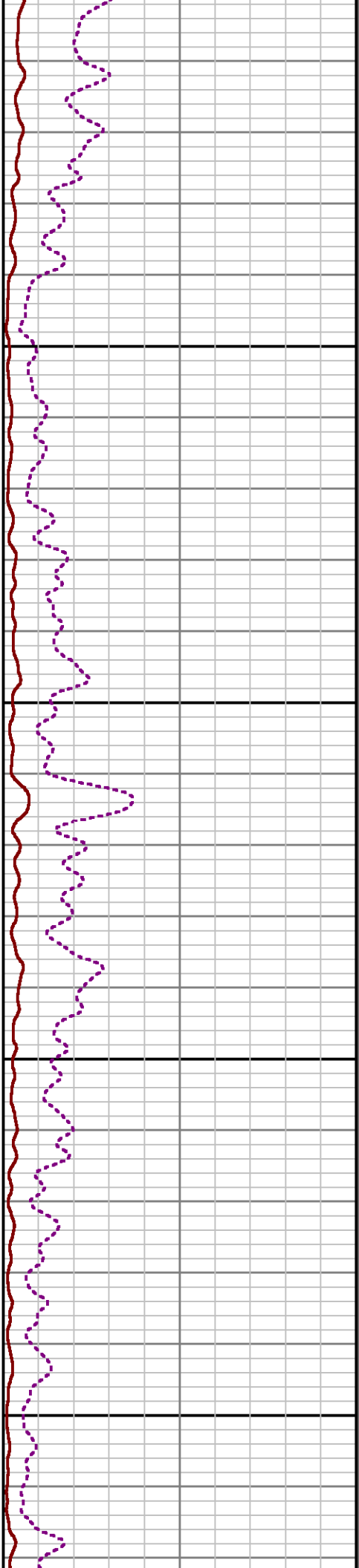
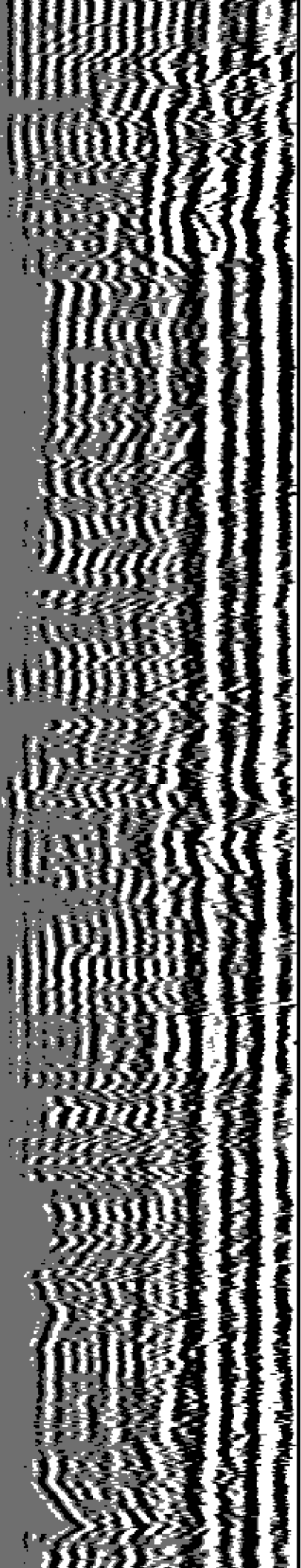






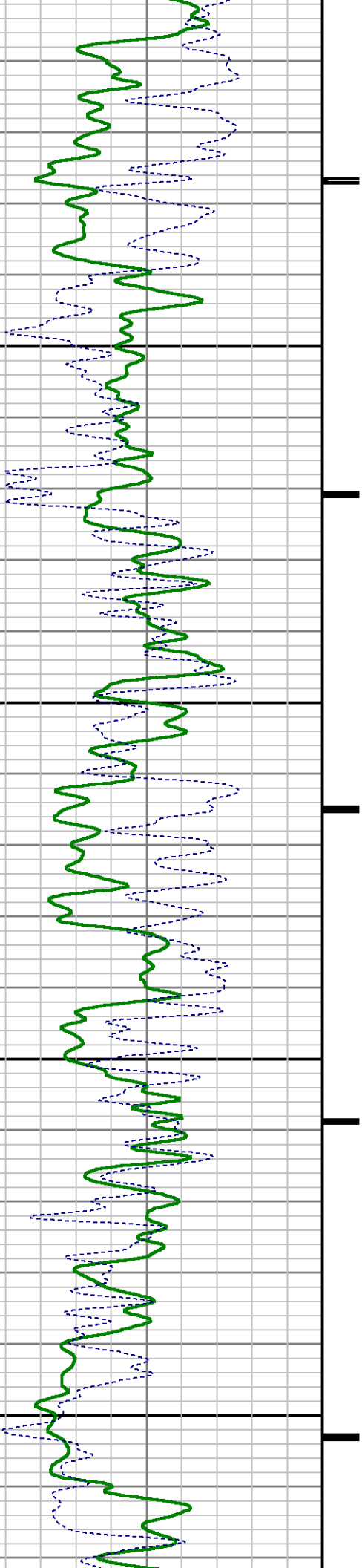


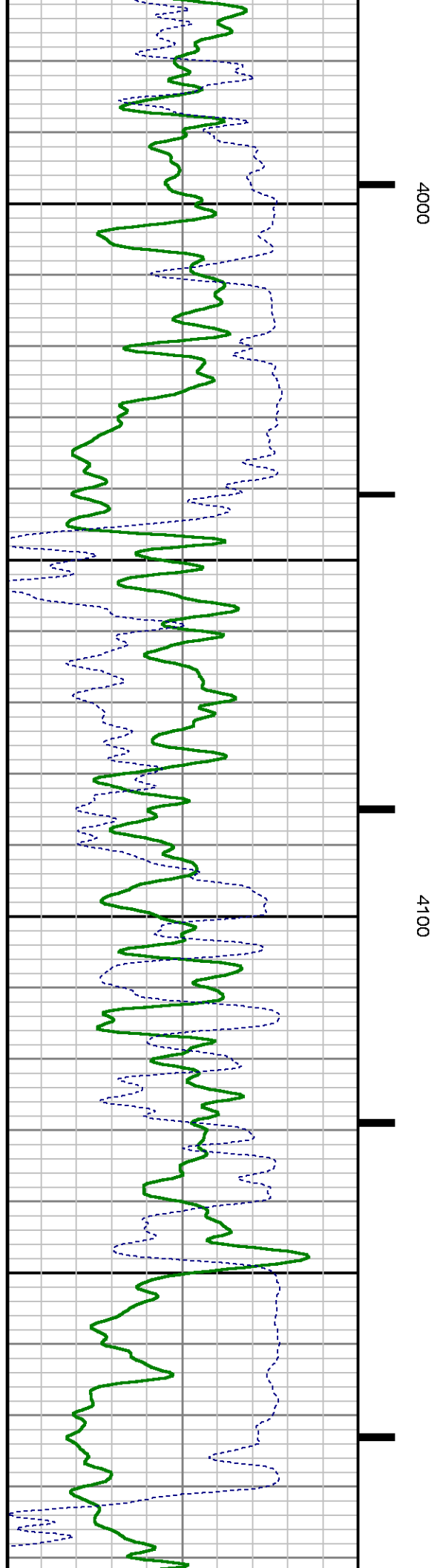
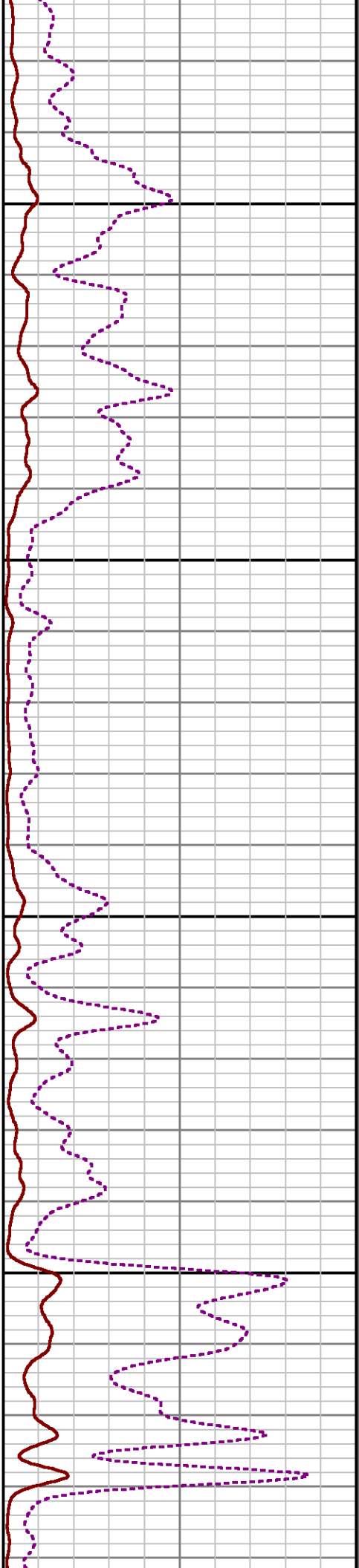
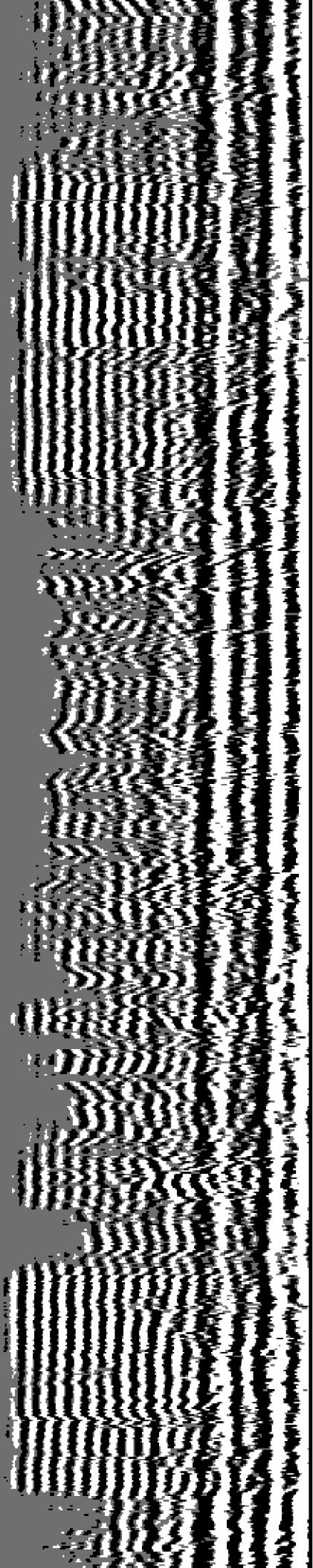


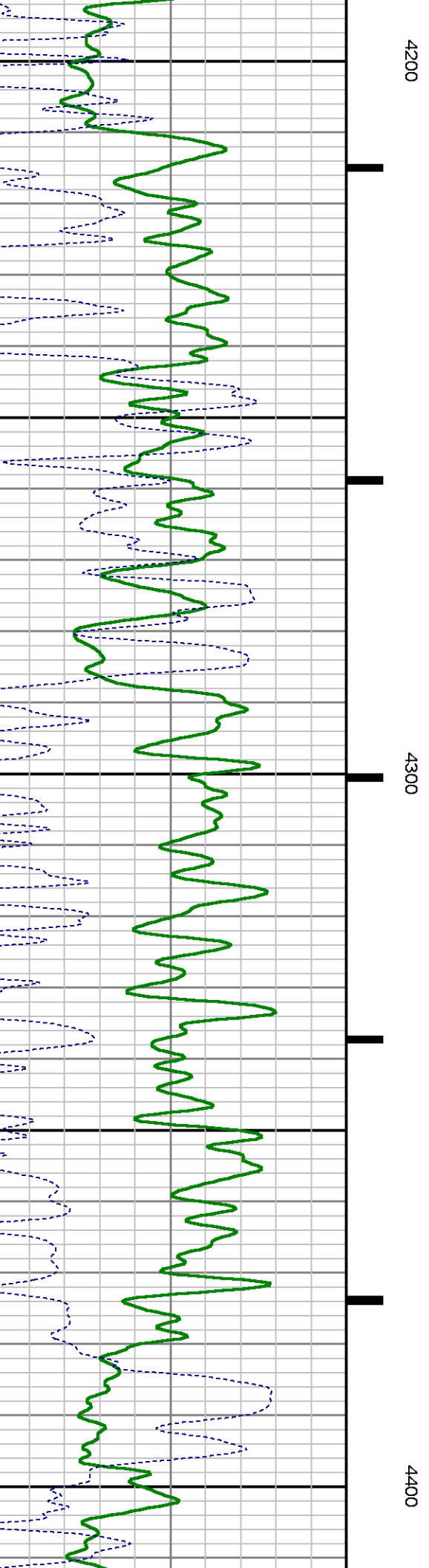
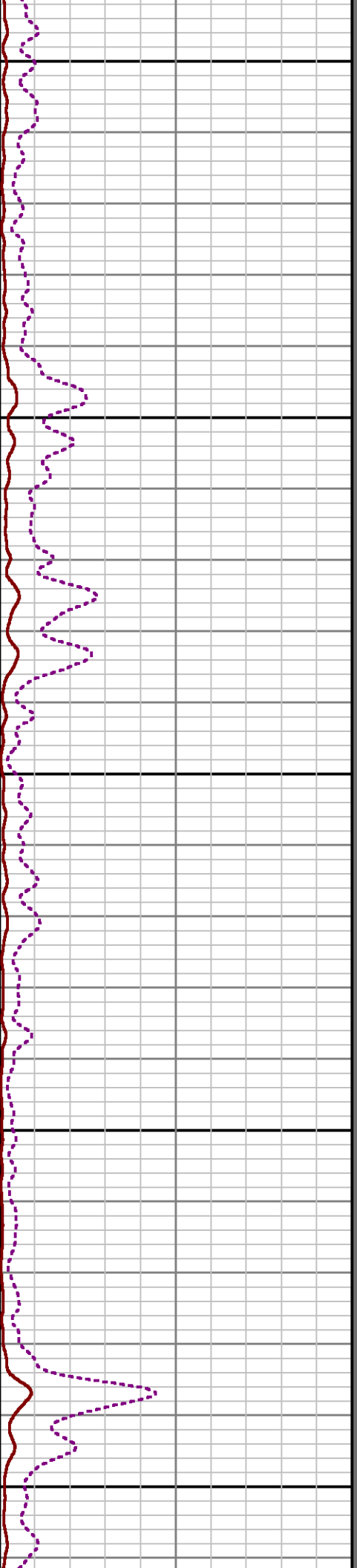
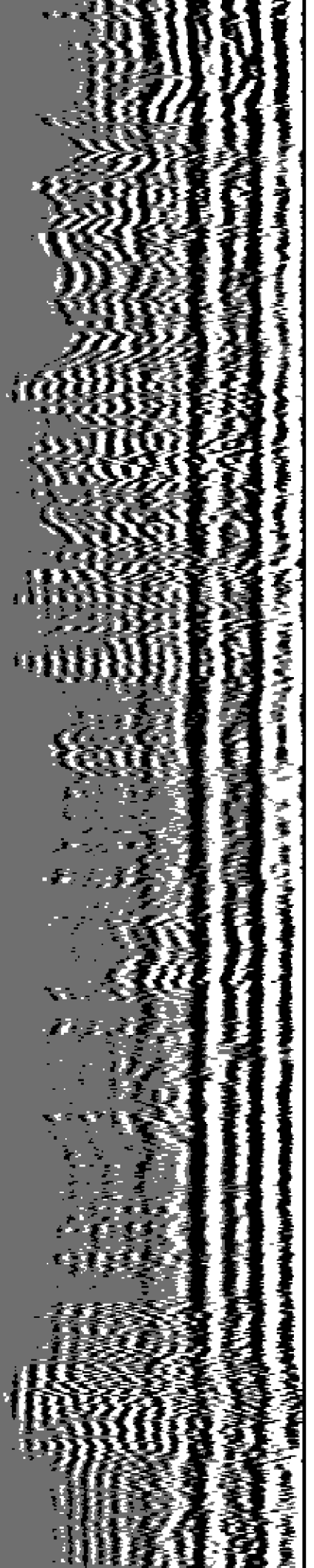


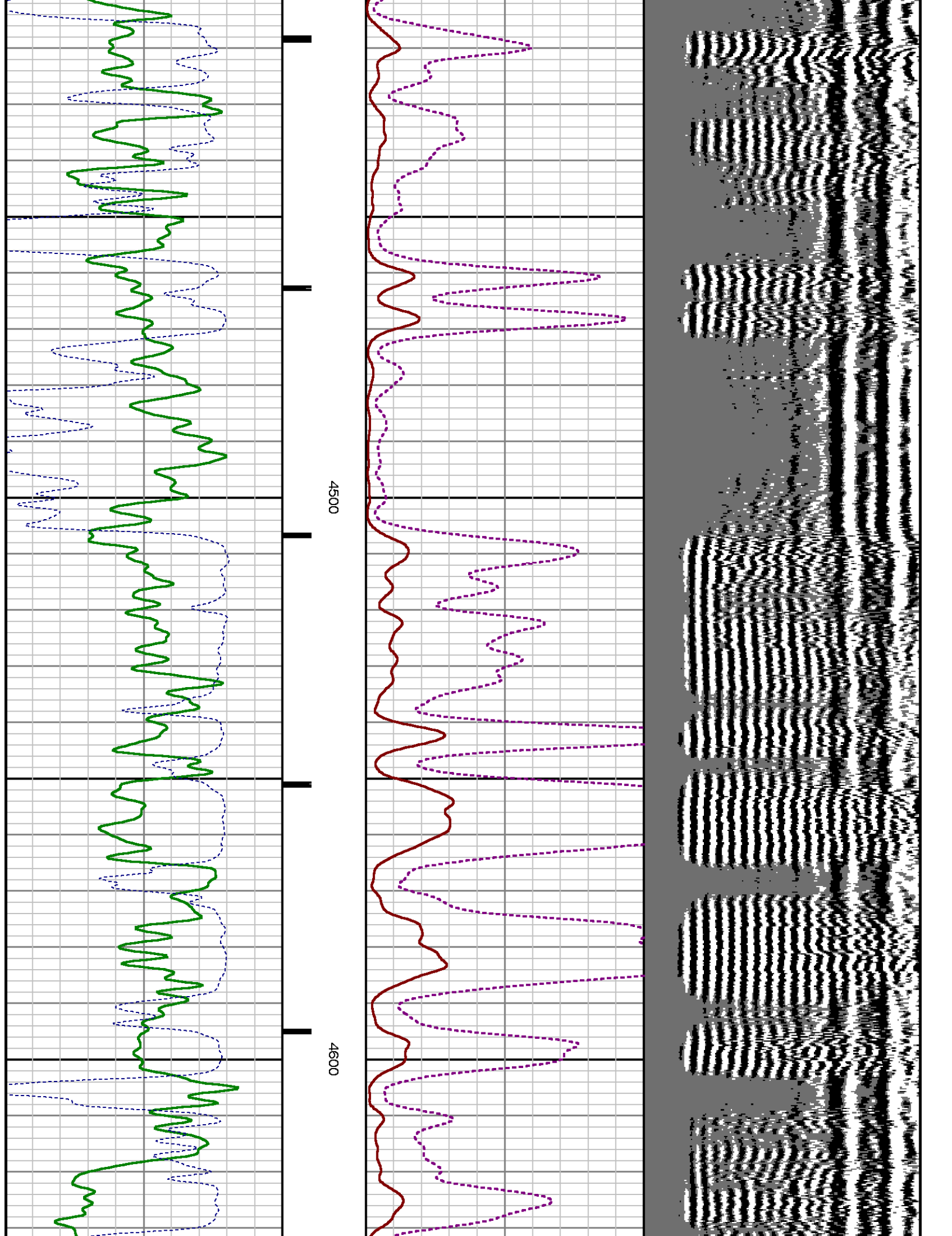
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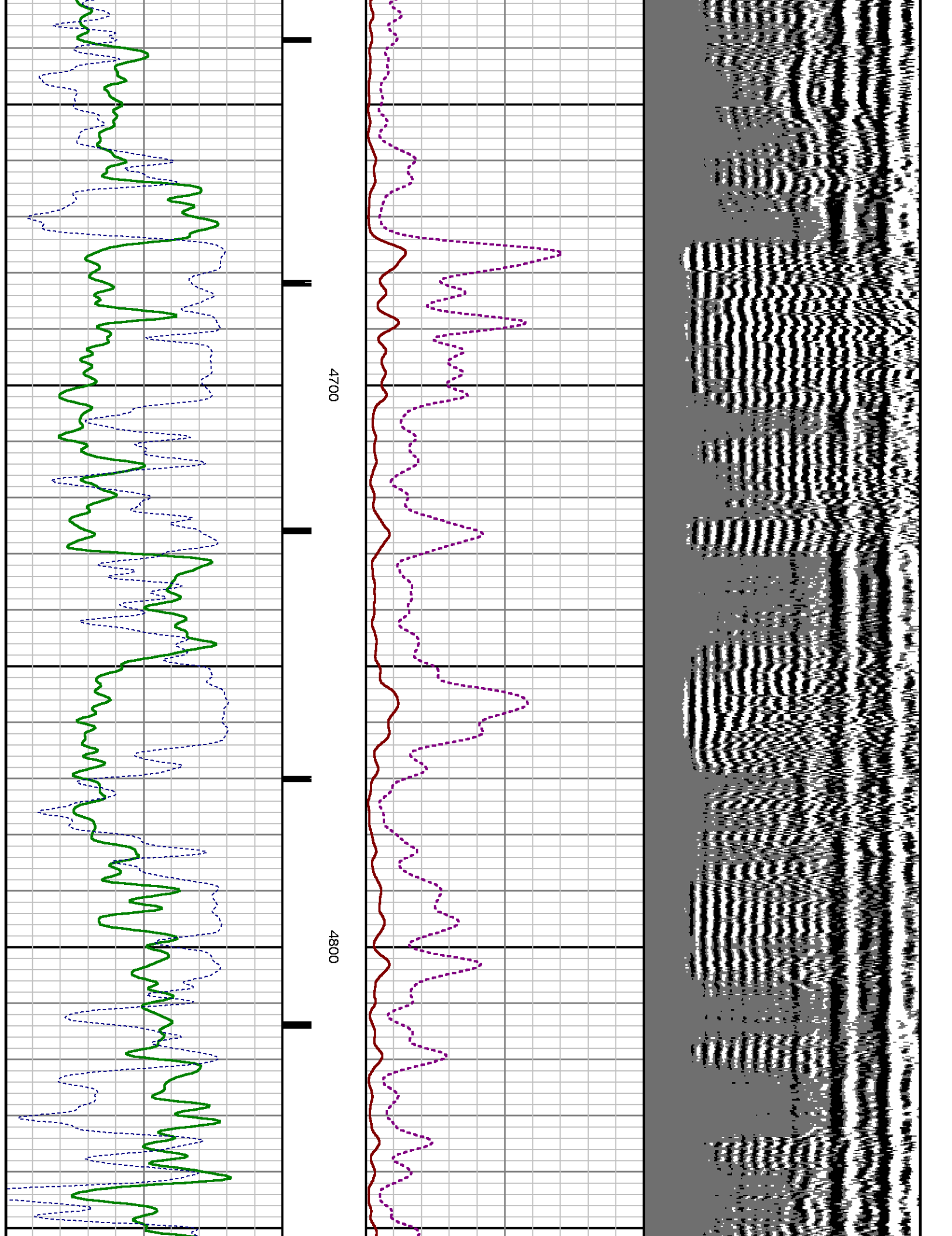
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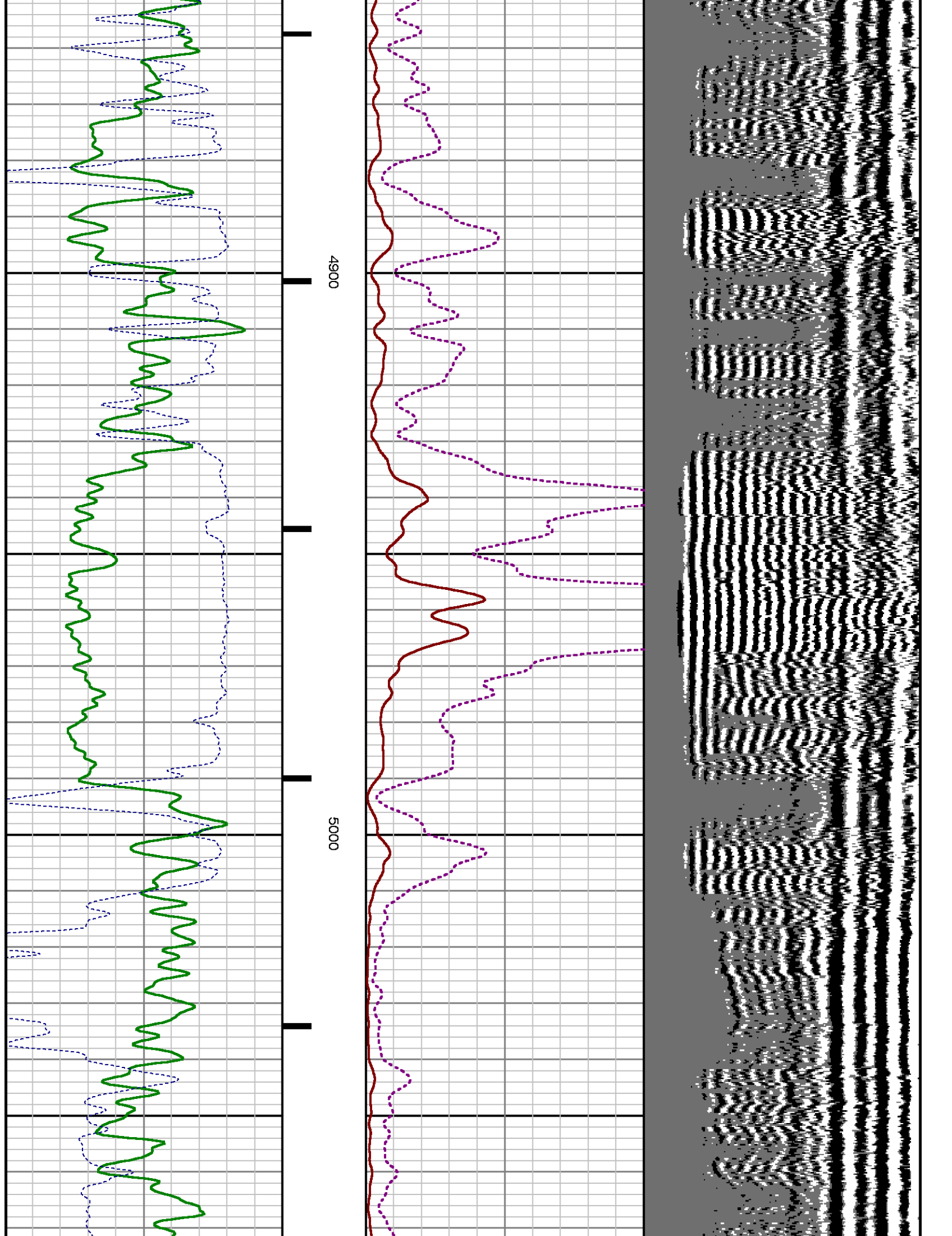


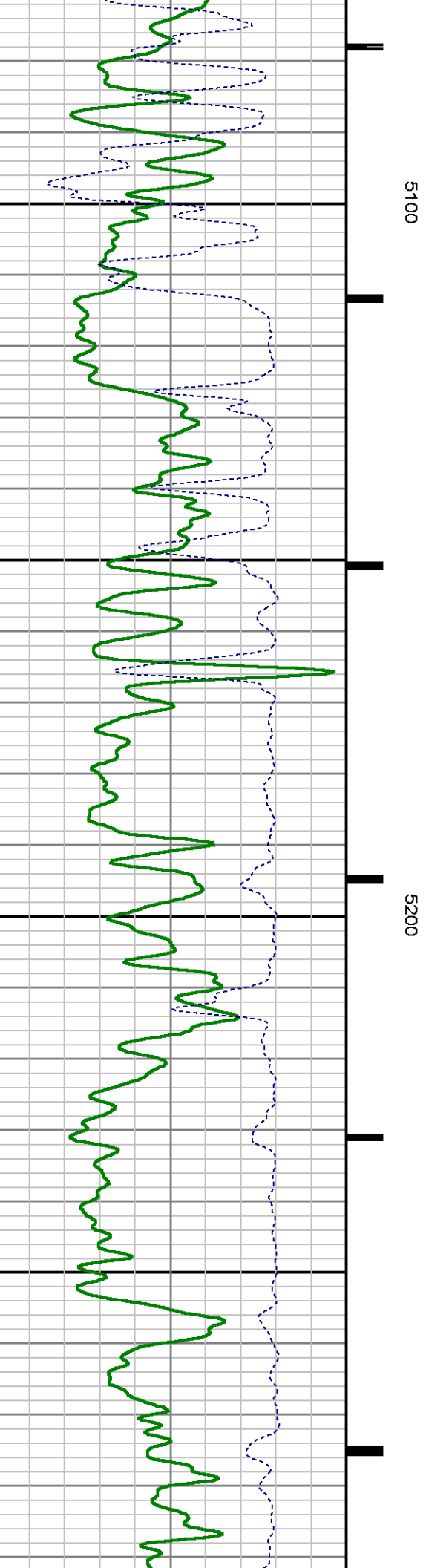
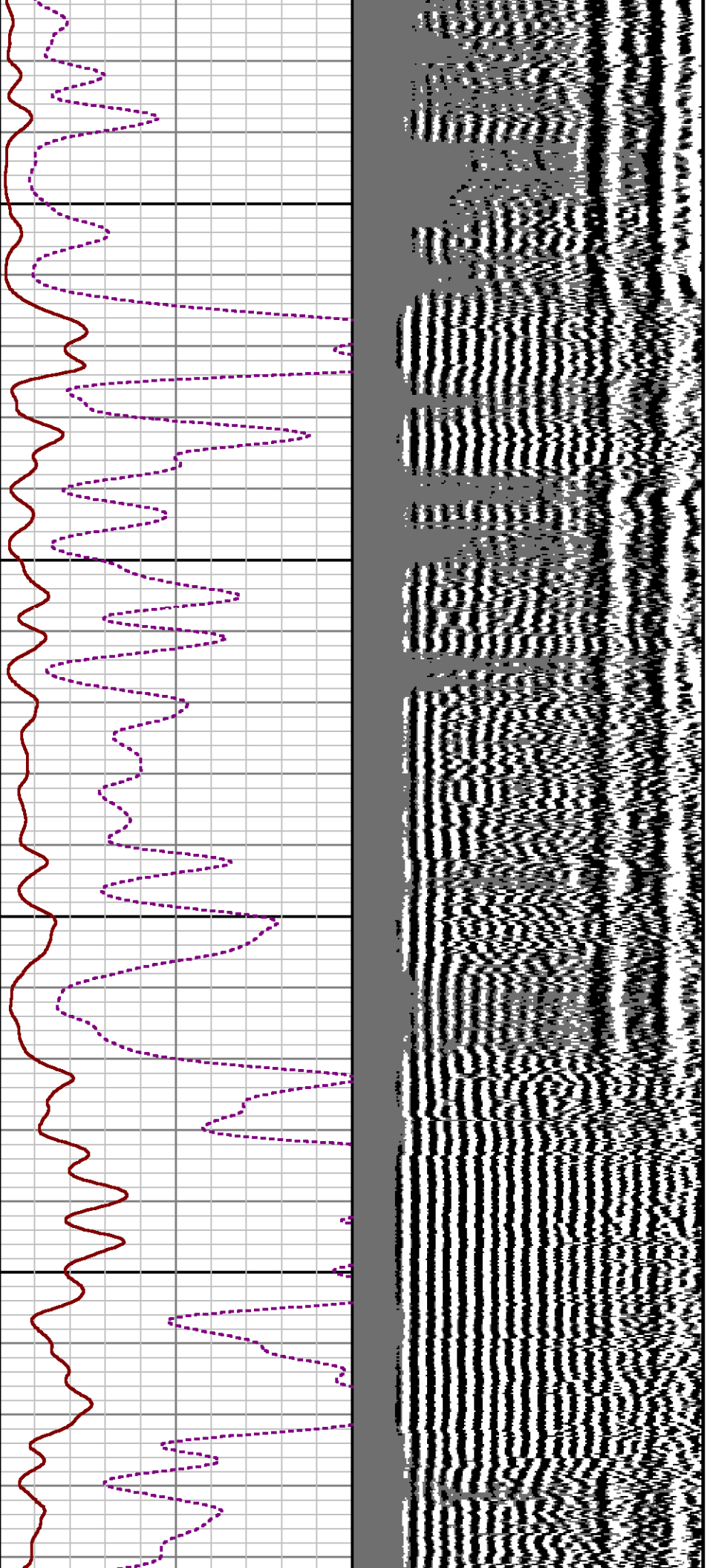


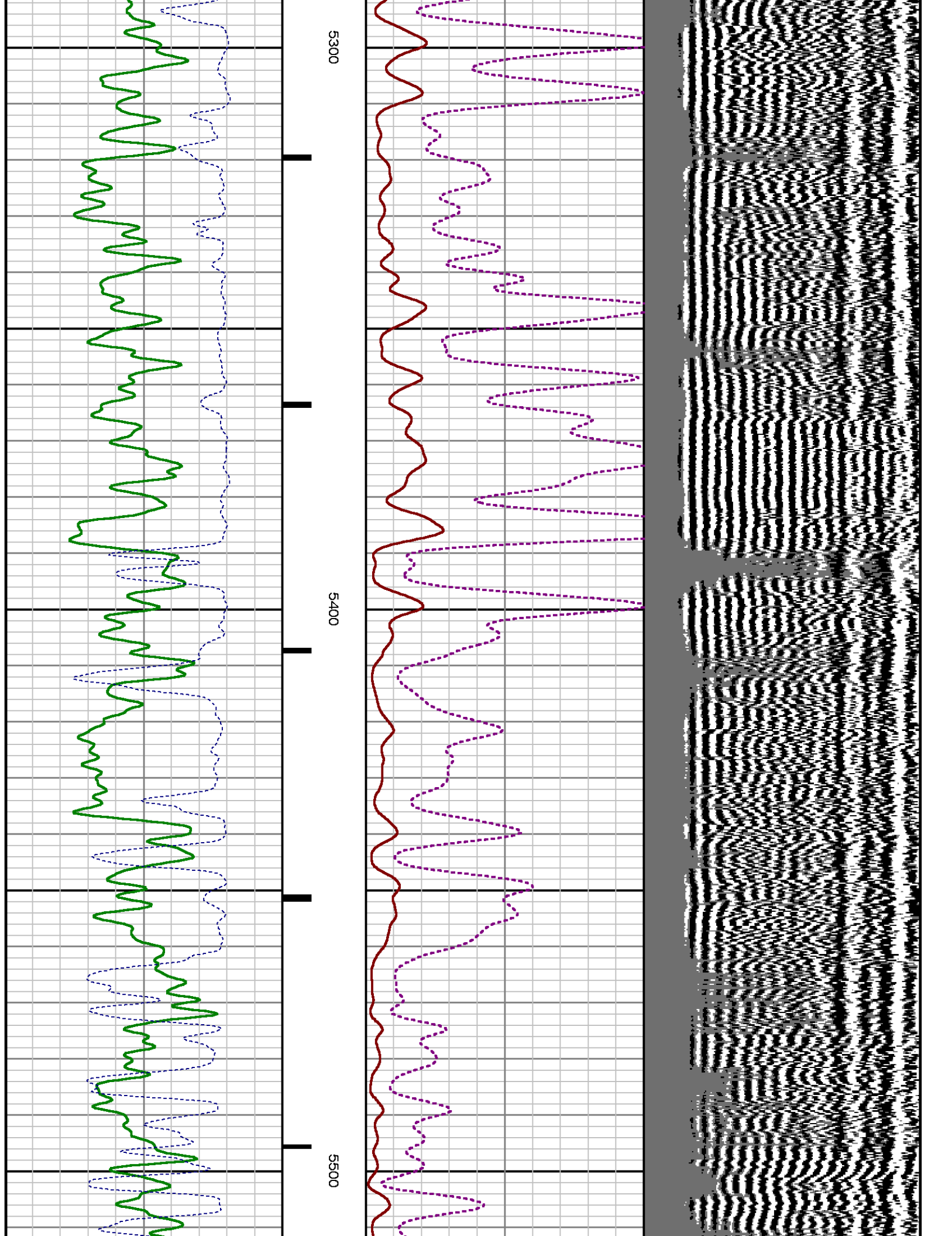


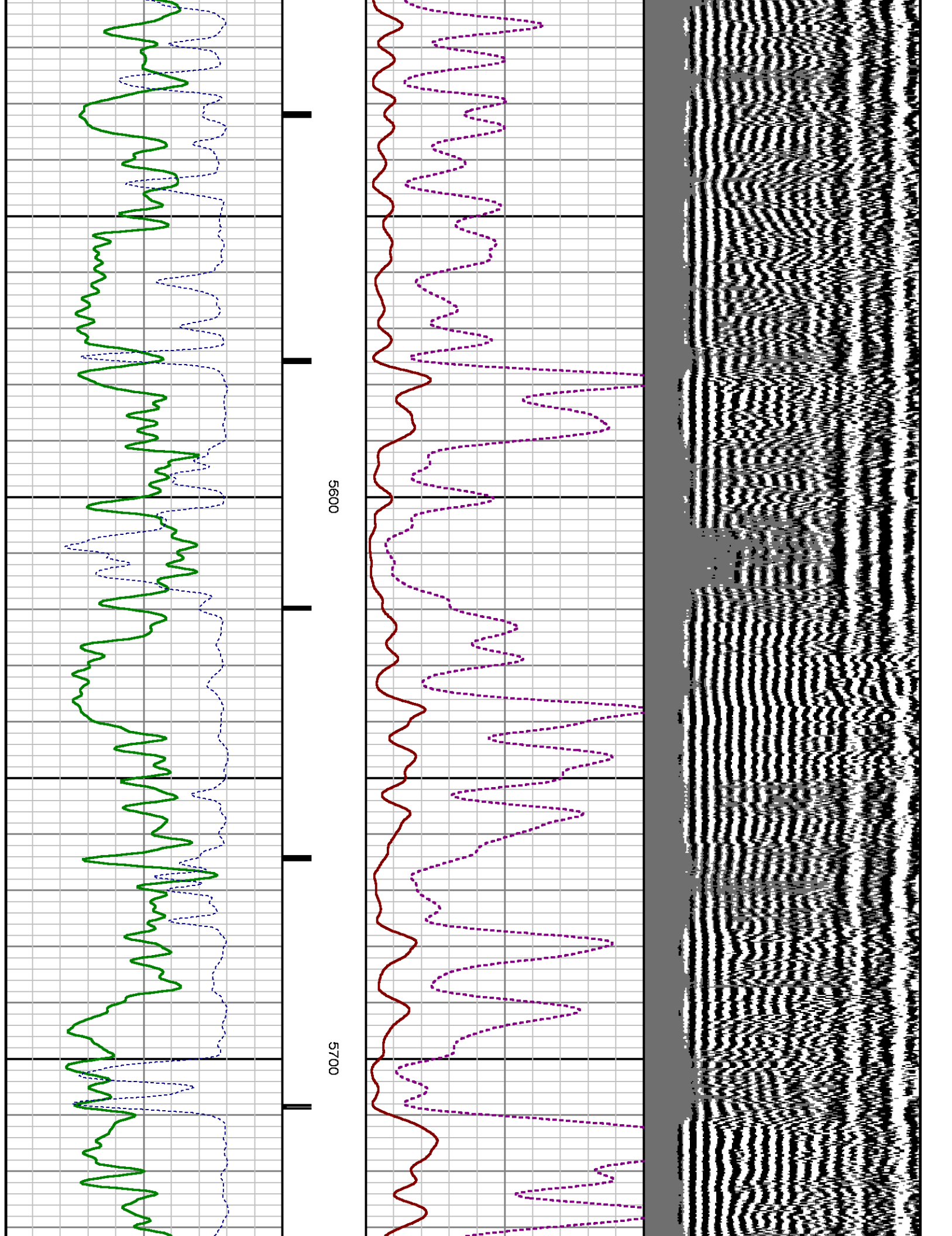


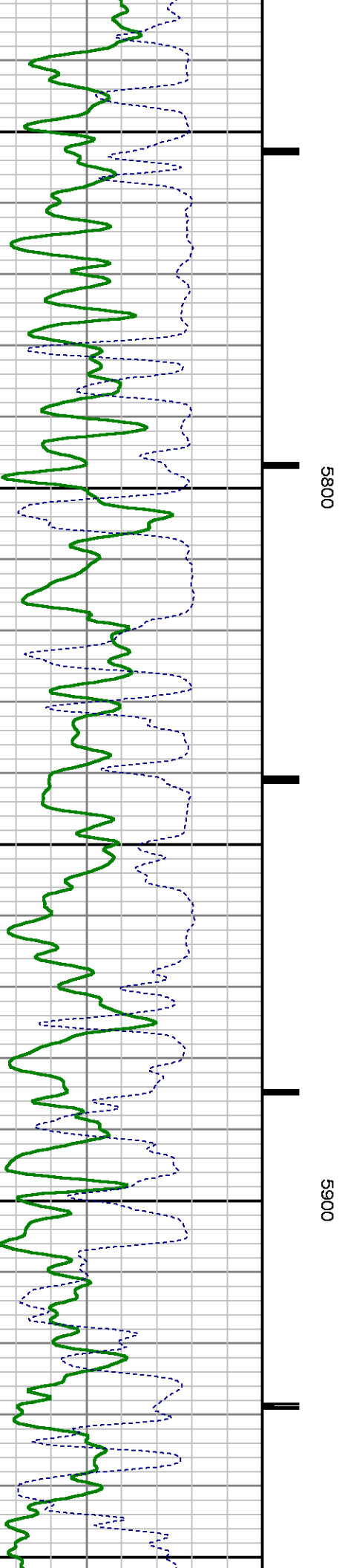
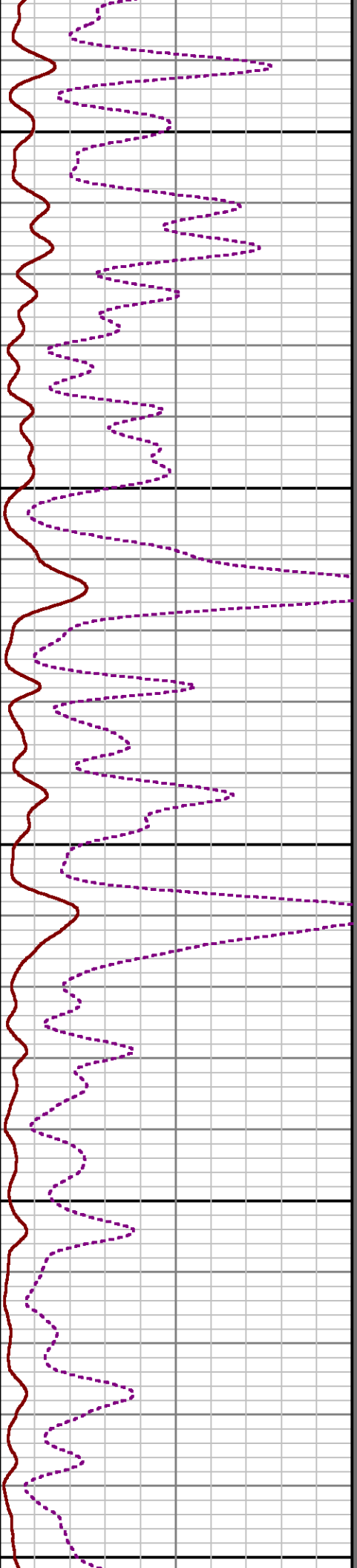
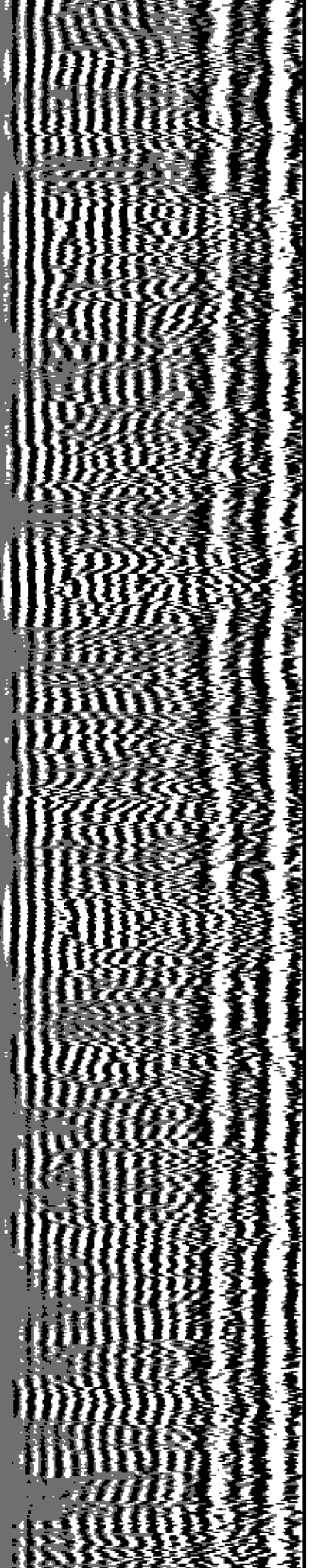


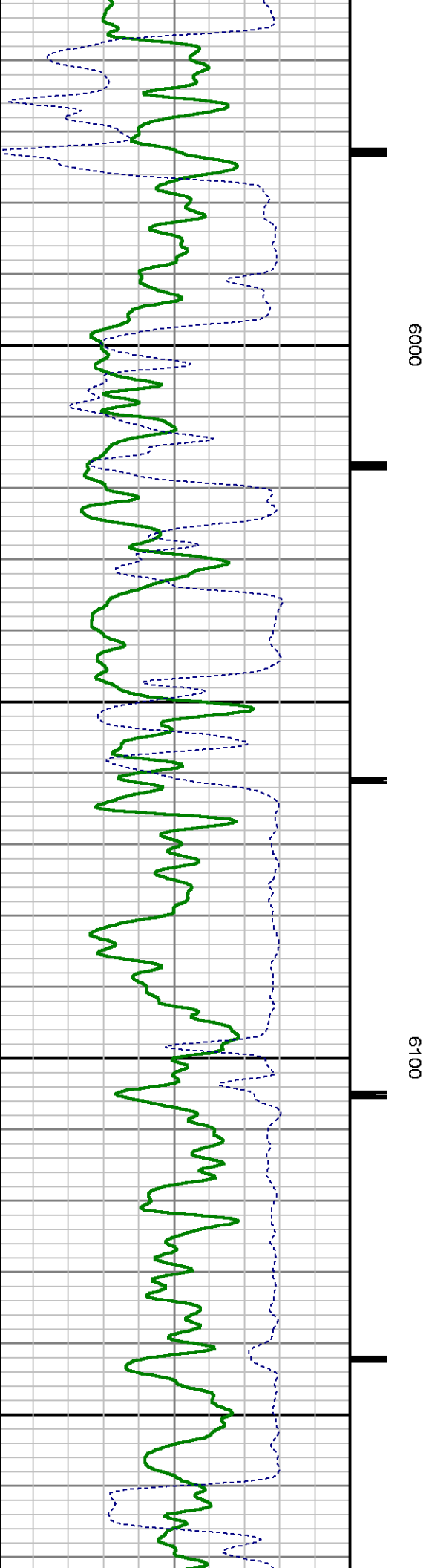
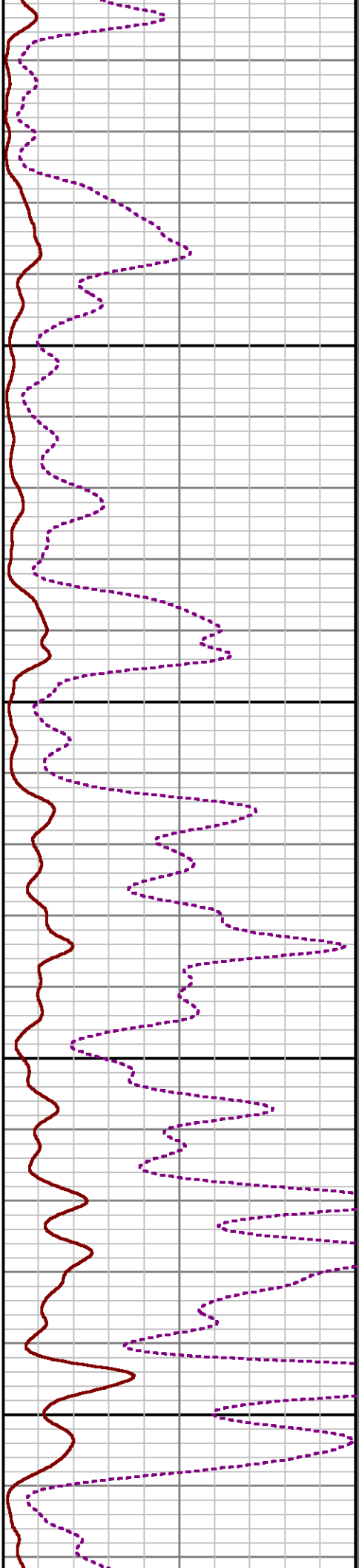
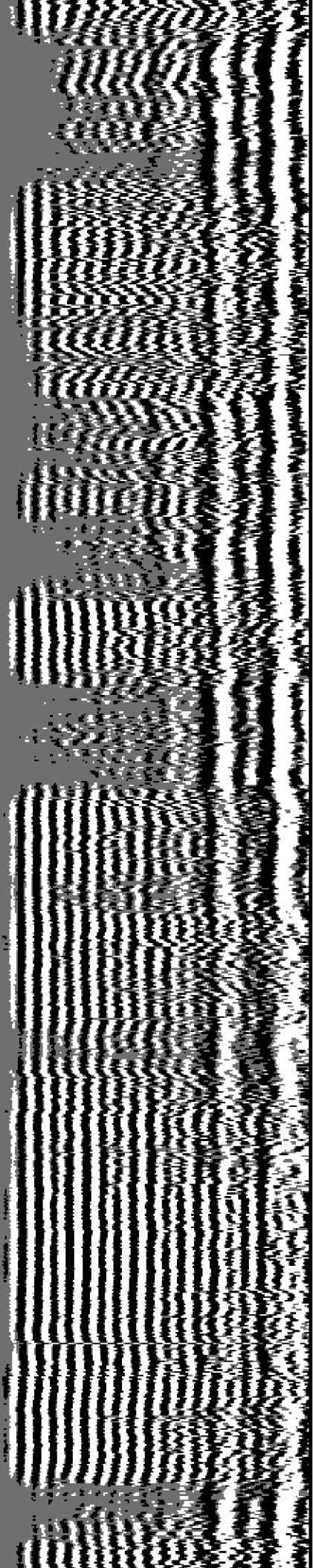


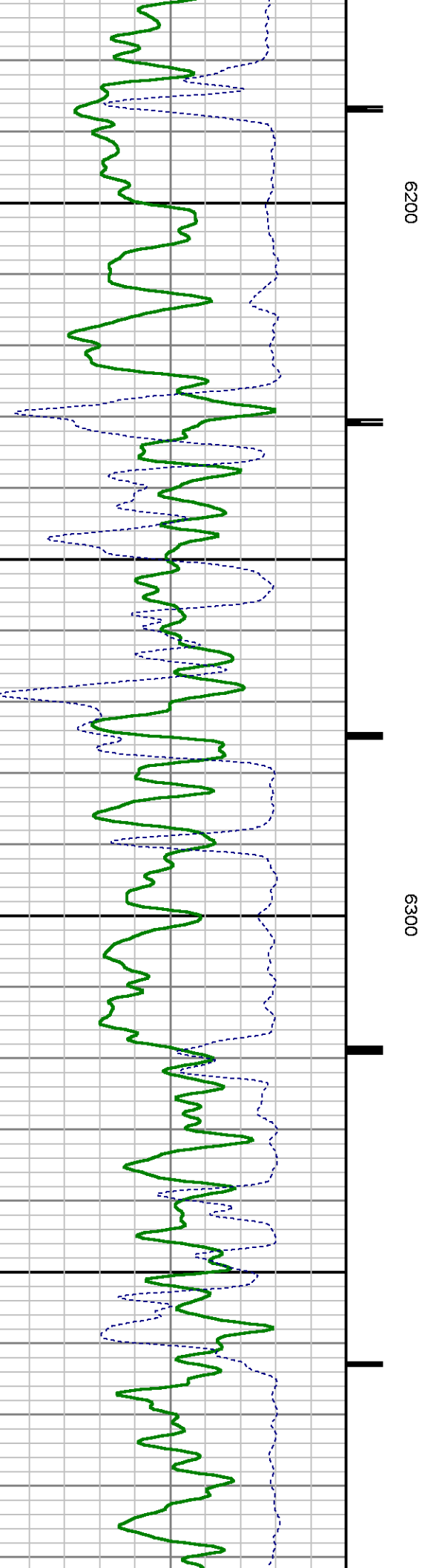
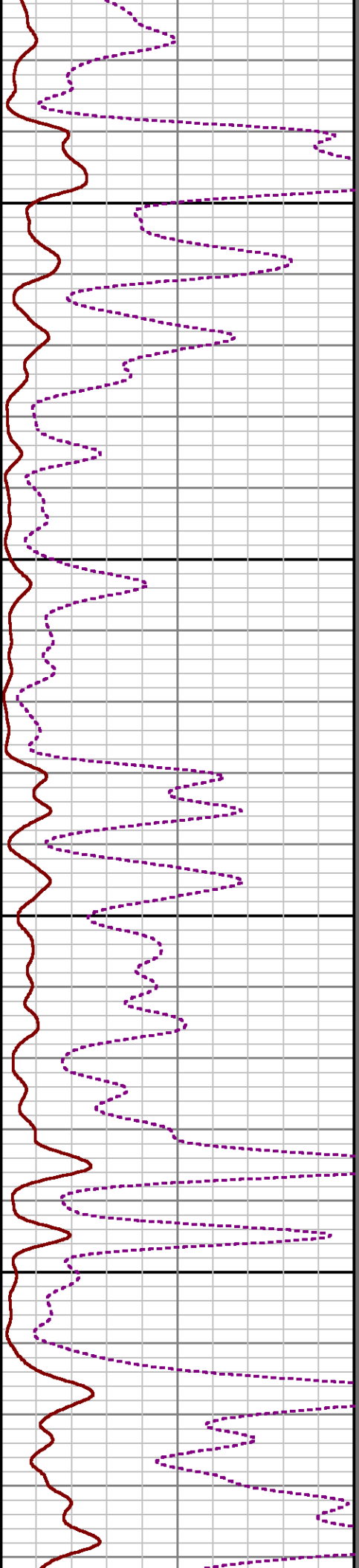
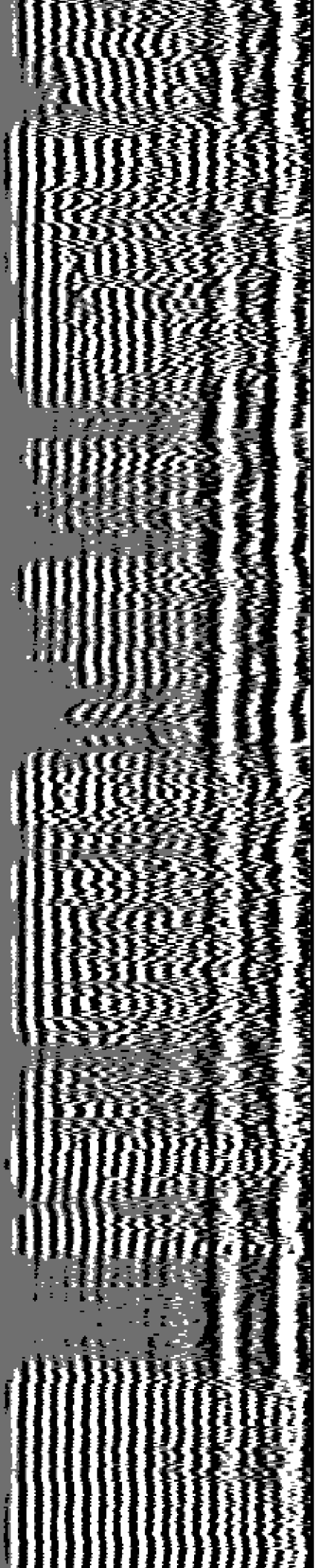


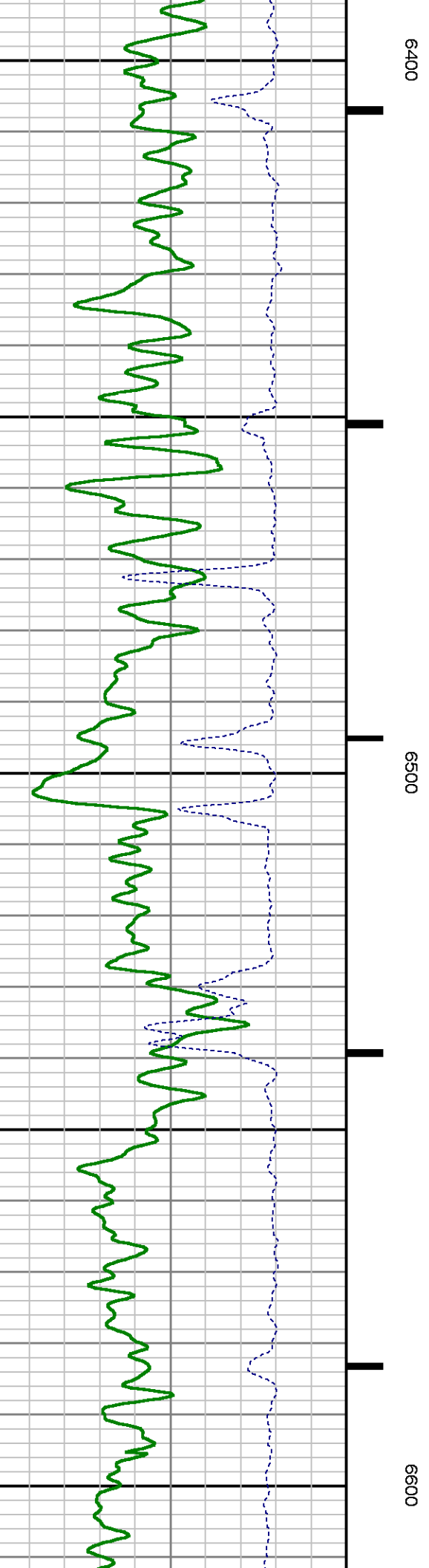
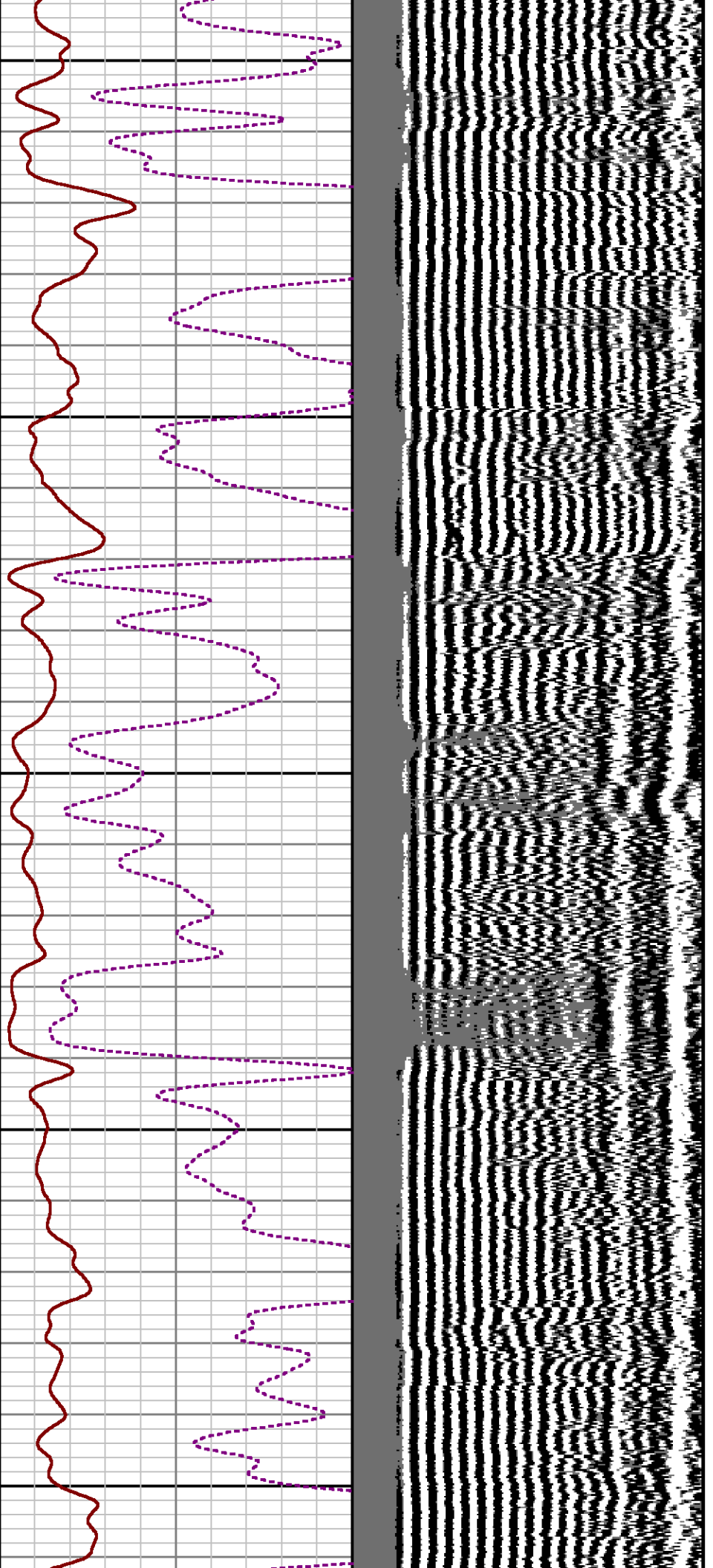


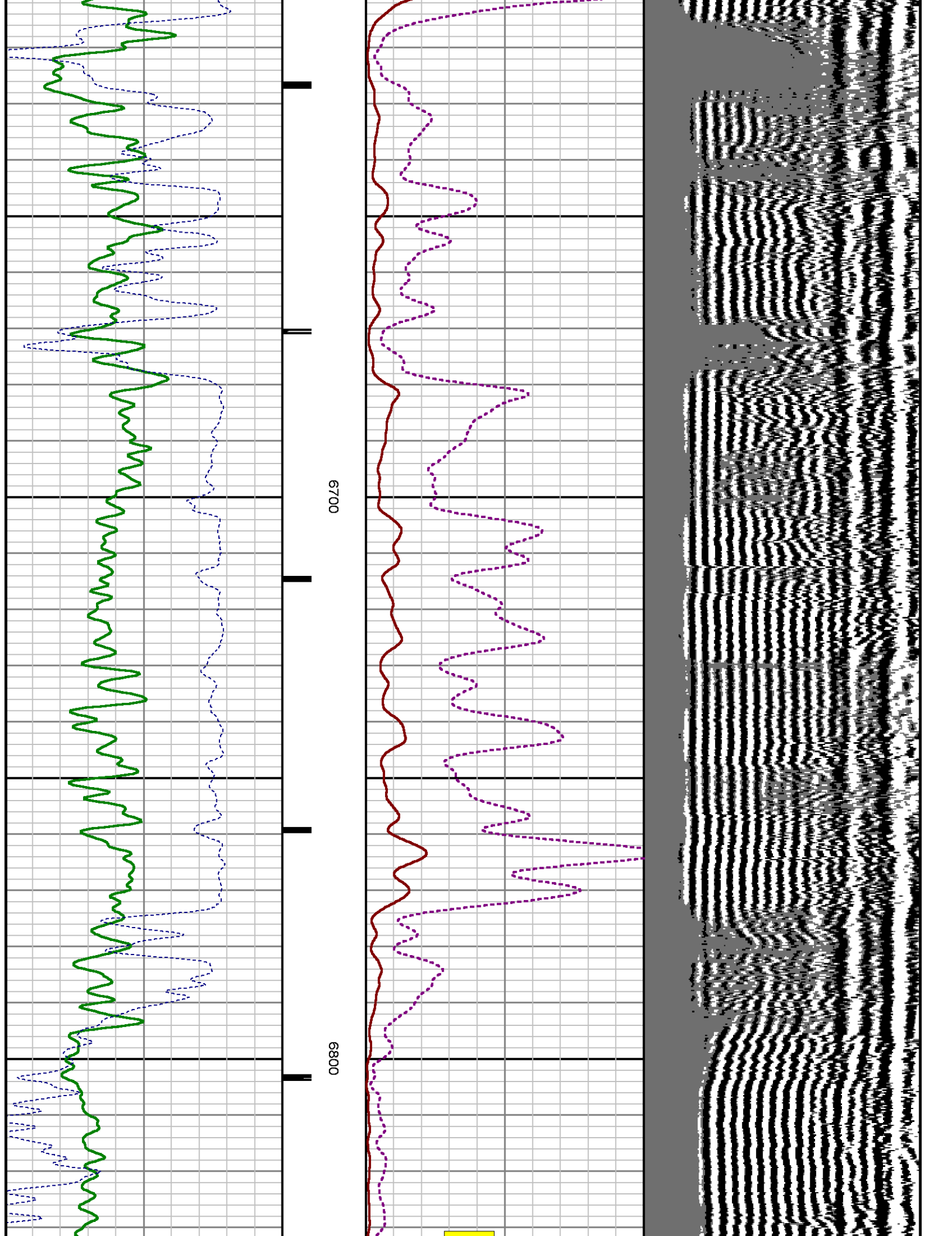


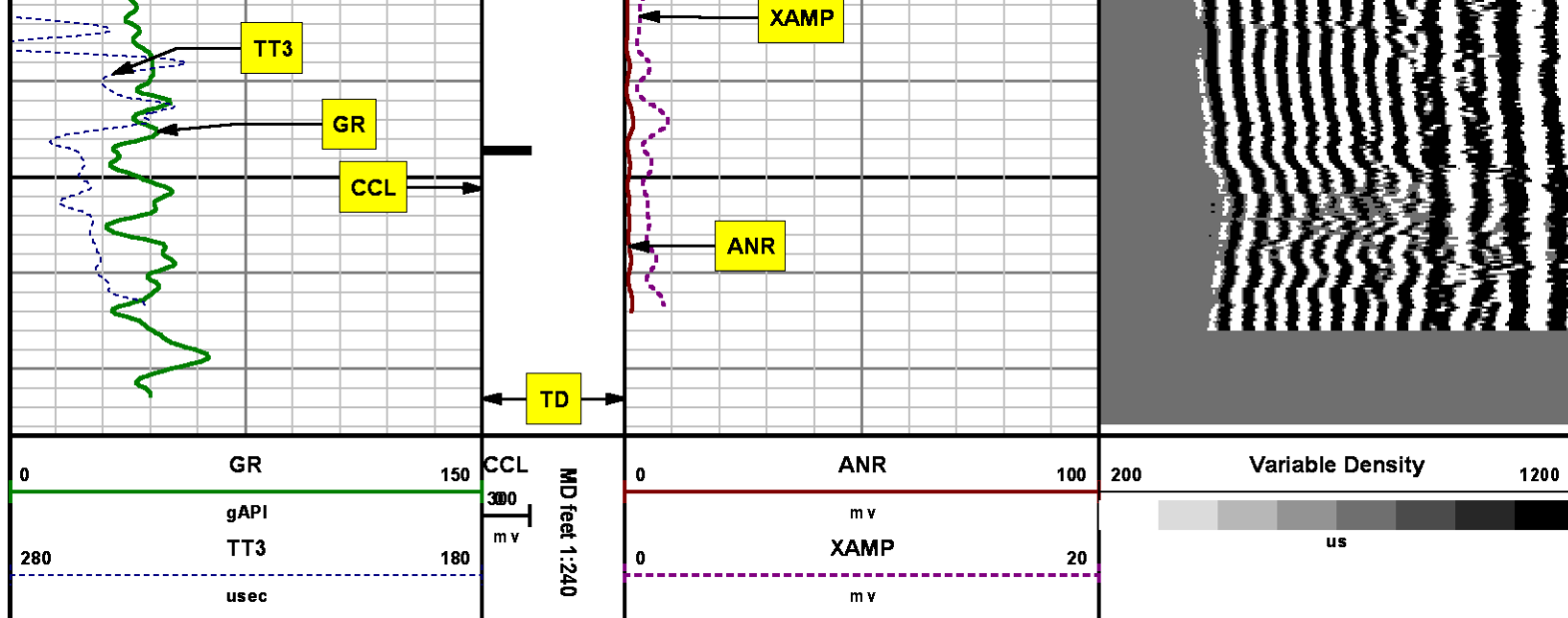












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	29.856	485.500
RAL	Amp Gate Start Near	195.000	usec	29.856	485.500
RAL	Amp Gate Start Radial	195.000	usec	29.856	485.500
RAL	Amp Gate Width Far	25.000	usec	29.856	485.500
RAL	Amp Gate Width Near	25.000	usec	29.856	485.500
RAL	Amp Gate Width Radial	25.000	usec	29.856	485.500
RAL	casing od	4.500	inches	29.856	485.500
RAL	casing wt	11.600	lbm/ft	29.856	485.500
RAL	FB Start Far	291.900	usec	29.856	485.500
RAL	FB Start Near	180.000	usec	29.856	485.500
RAL	FB Start Radial	180.000	usec	29.856	485.500
RAL	FB Thresh Far	10.000	mv	29.856	485.500
RAL	FB Thresh Near	4.000	mv	29.856	485.500
RAL	FB Thresh Radial	4.000	mv	29.856	485.500
RAL	Fluid Travel Time	200.000	usec/ft	29.856	485.500
RAL	Amp Gate Start Far	310.000	usec	485.500	6595.500
RAL	Amp Gate Start Near	195.000	usec	485.500	6595.500
RAL	Amp Gate Start Radial	195.000	usec	485.500	6595.500
RAL	Amp Gate Width Far	25.000	usec	485.500	6595.500
RAL	Amp Gate Width Near	25.000	usec	485.500	6595.500

RAL	Amp Gate Width Radial	25.000	usec	485.500	6595.500
RAL	casing od	4.500	inches	485.500	6595.500
RAL	casing wt	11.600	lbm/ft	485.500	6595.500
RAL	FB Start Far	291.900	usec	485.500	6595.500
RAL	FB Start Near	180.000	usec	485.500	6595.500
RAL	FB Start Radial	180.000	usec	485.500	6595.500
RAL	FB Thresh Far	10.000	mv	485.500	6595.500
RAL	FB Thresh Near	4.000	mv	485.500	6595.500
RAL	FB Thresh Radial	4.000	mv	485.500	6595.500
RAL	Fluid Travel Time	200.000	usec/ft	485.500	6595.500
RAL	Amp Gate Start Far	310.000	usec	6595.500	6875.500
RAL	Amp Gate Start Near	195.000	usec	6595.500	6875.500
RAL	Amp Gate Start Radial	195.000	usec	6595.500	6875.500
RAL	Amp Gate Width Far	25.000	usec	6595.500	6875.500
RAL	Amp Gate Width Near	25.000	usec	6595.500	6875.500
RAL	Amp Gate Width Radial	25.000	usec	6595.500	6875.500
RAL	casing od	4.500	inches	6595.500	6875.500
RAL	casing wt	11.600	lbm/ft	6595.500	6875.500
RAL	FB Start Far	291.900	usec	6595.500	6875.500
RAL	FB Start Near	180.000	usec	6595.500	6875.500
RAL	FB Start Radial	180.000	usec	6595.500	6875.500
RAL	FB Thresh Far	10.000	mv	6595.500	6875.500
RAL	FB Thresh Near	4.000	mv	6595.500	6875.500
RAL	FB Thresh Radial	4.000	mv	6595.500	6875.500
RAL	Fluid Travel Time	200.000	usec/ft	6595.500	6875.500

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

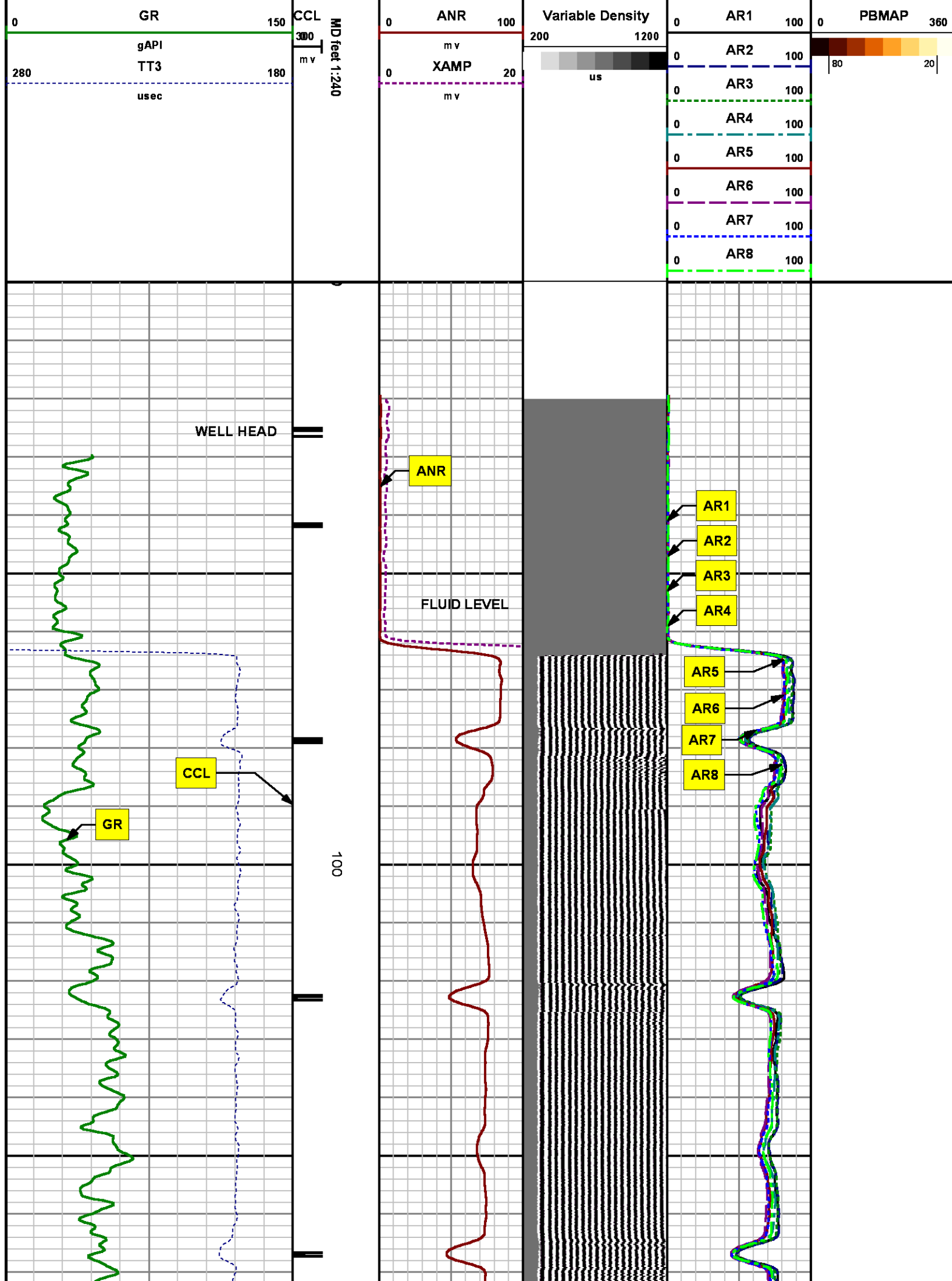
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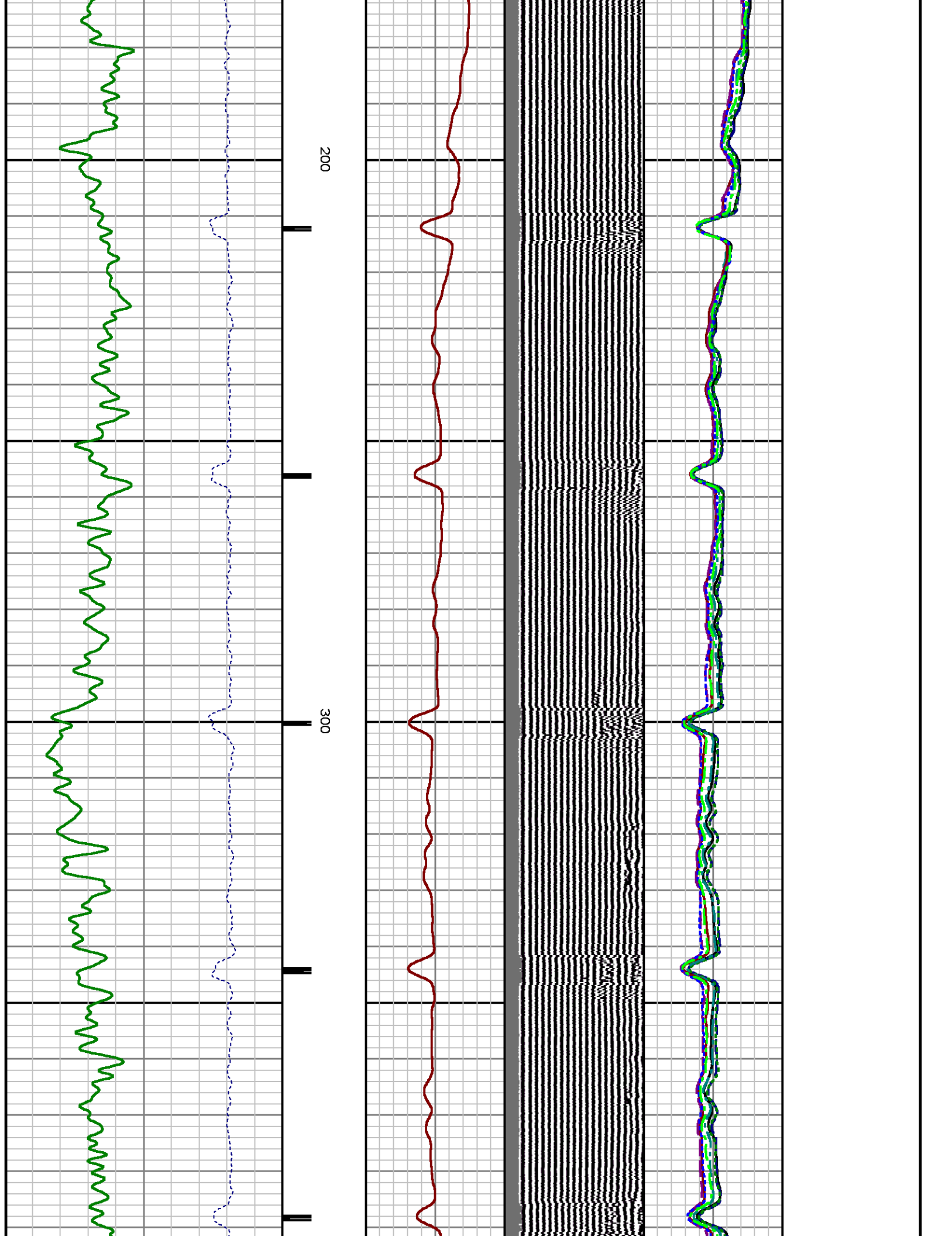
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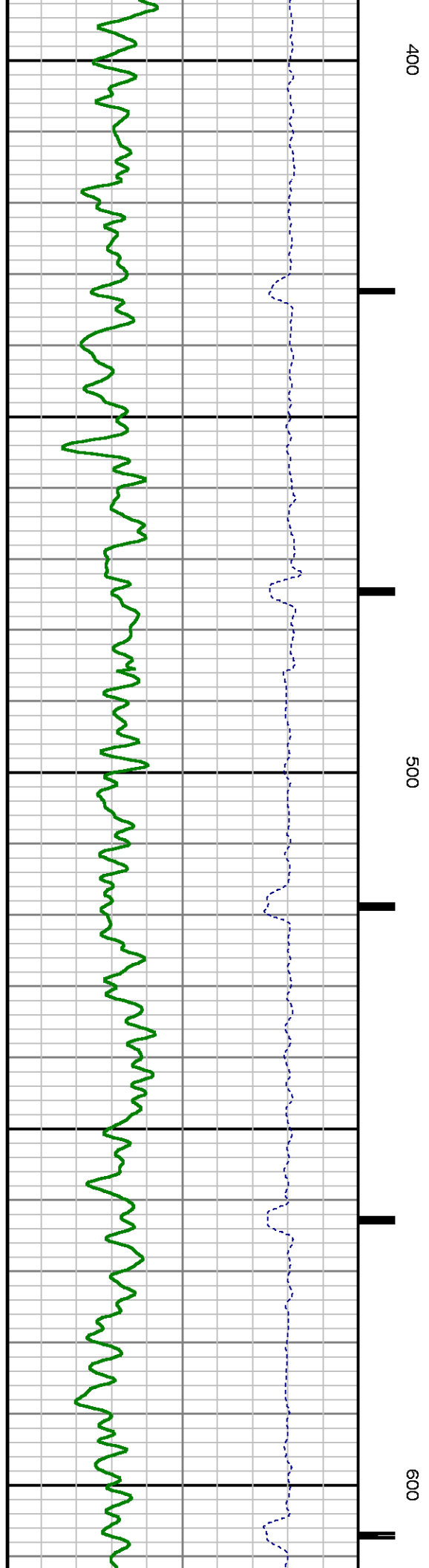
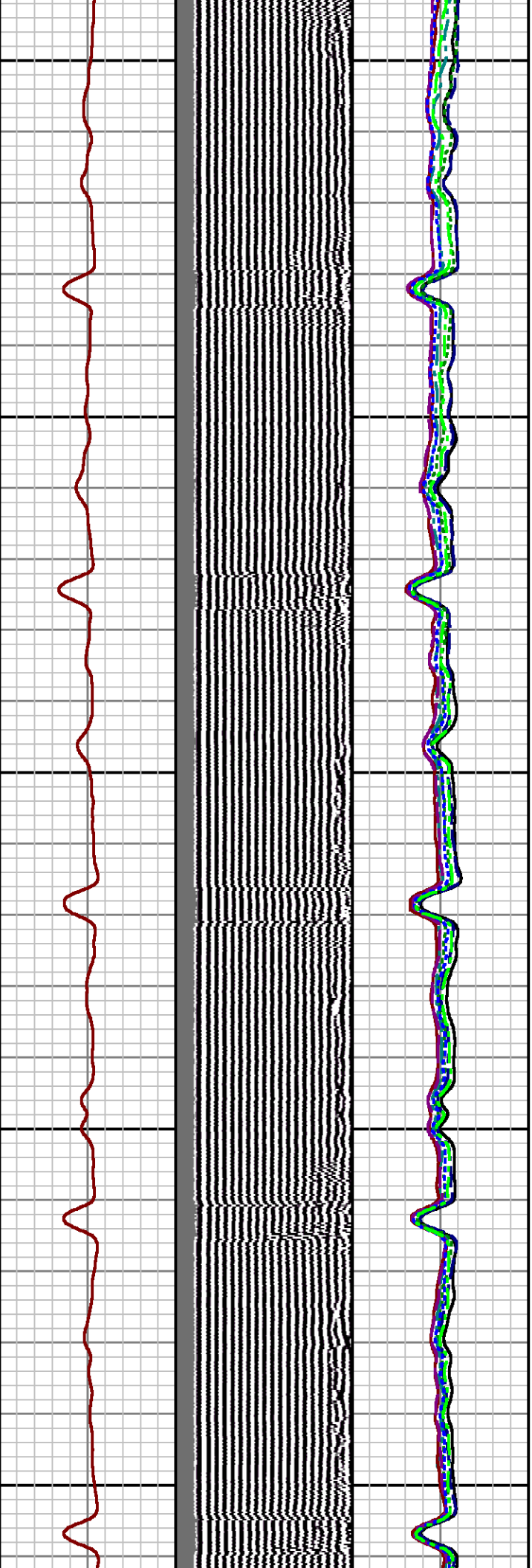
Mode : PlotMgr 5.4.504

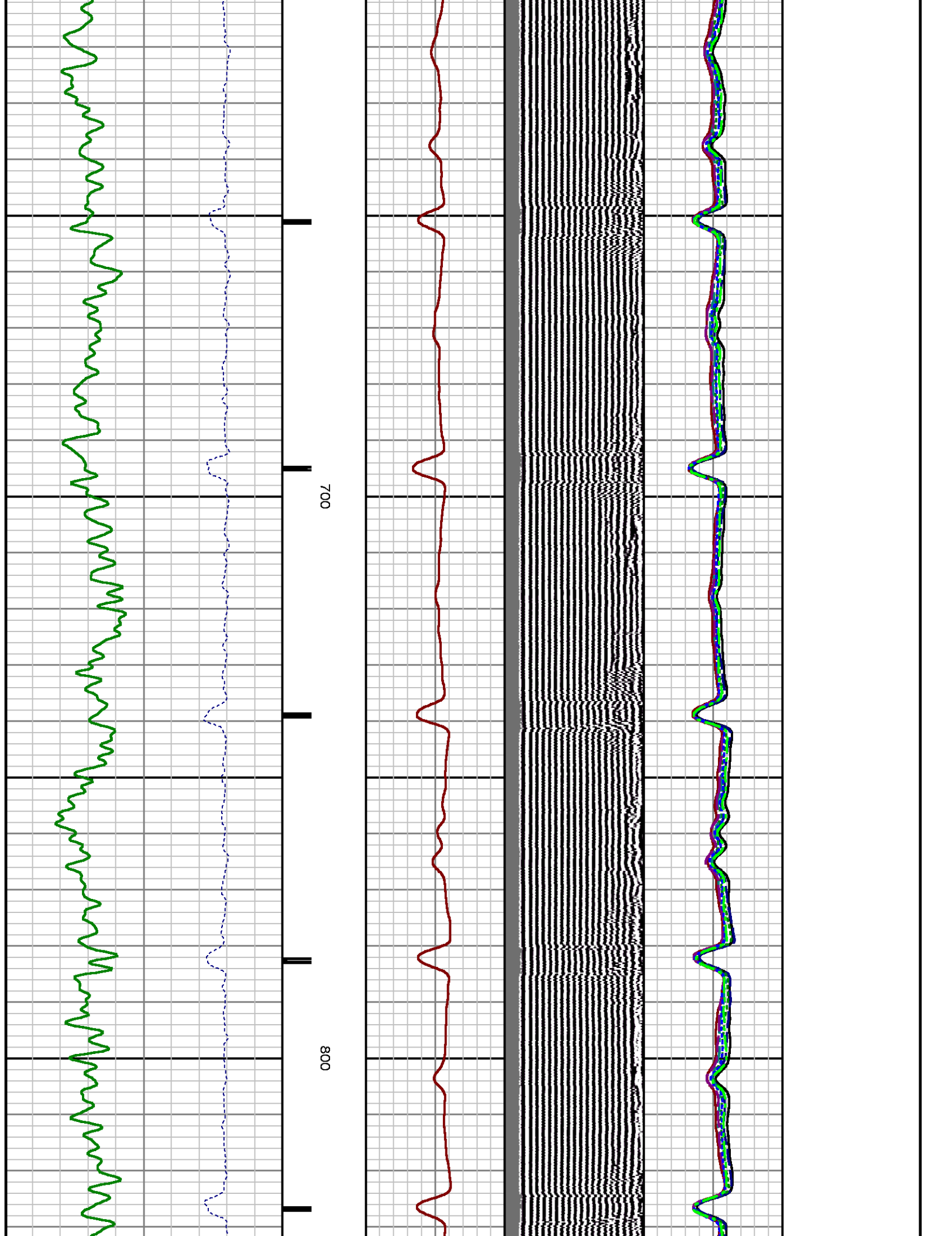
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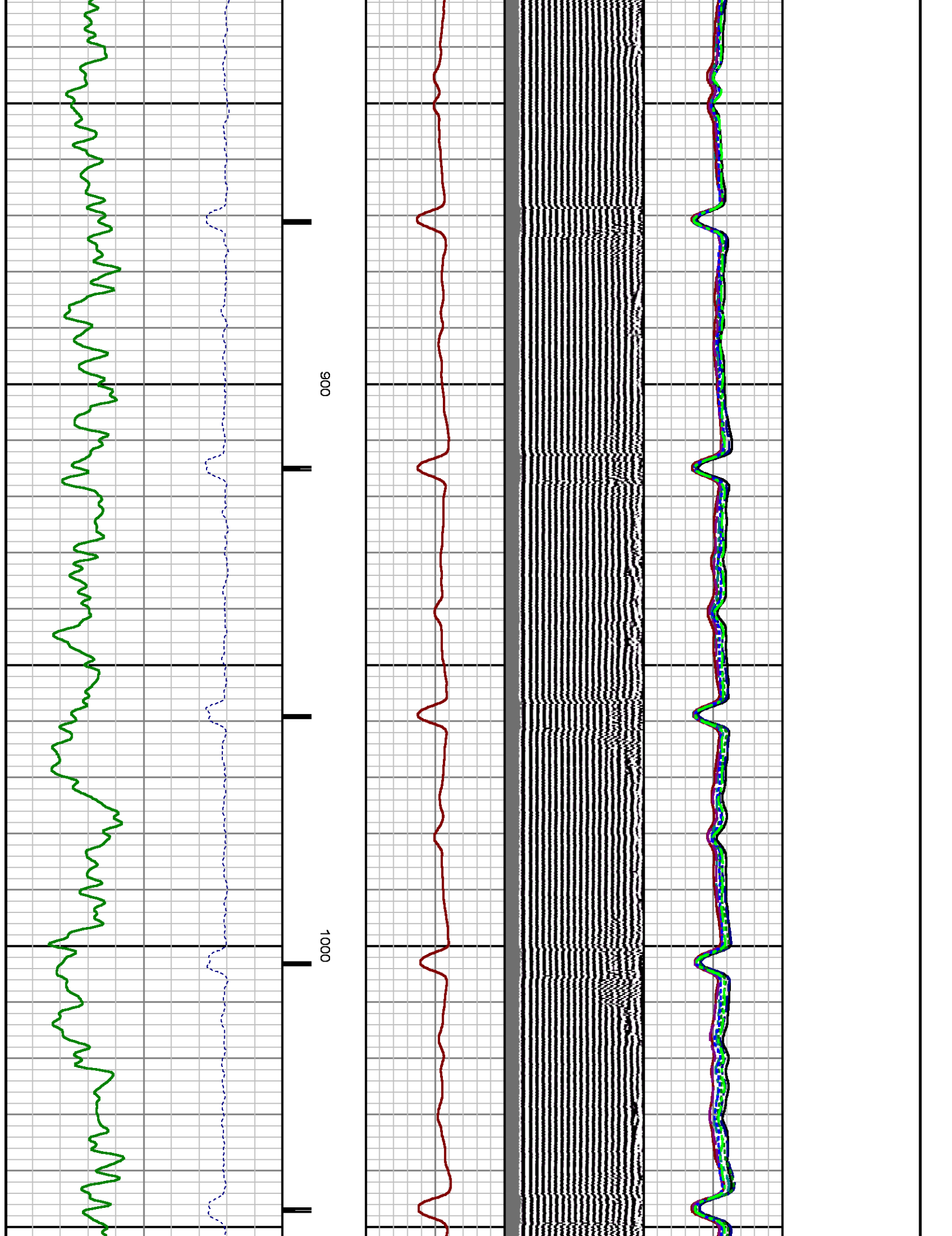
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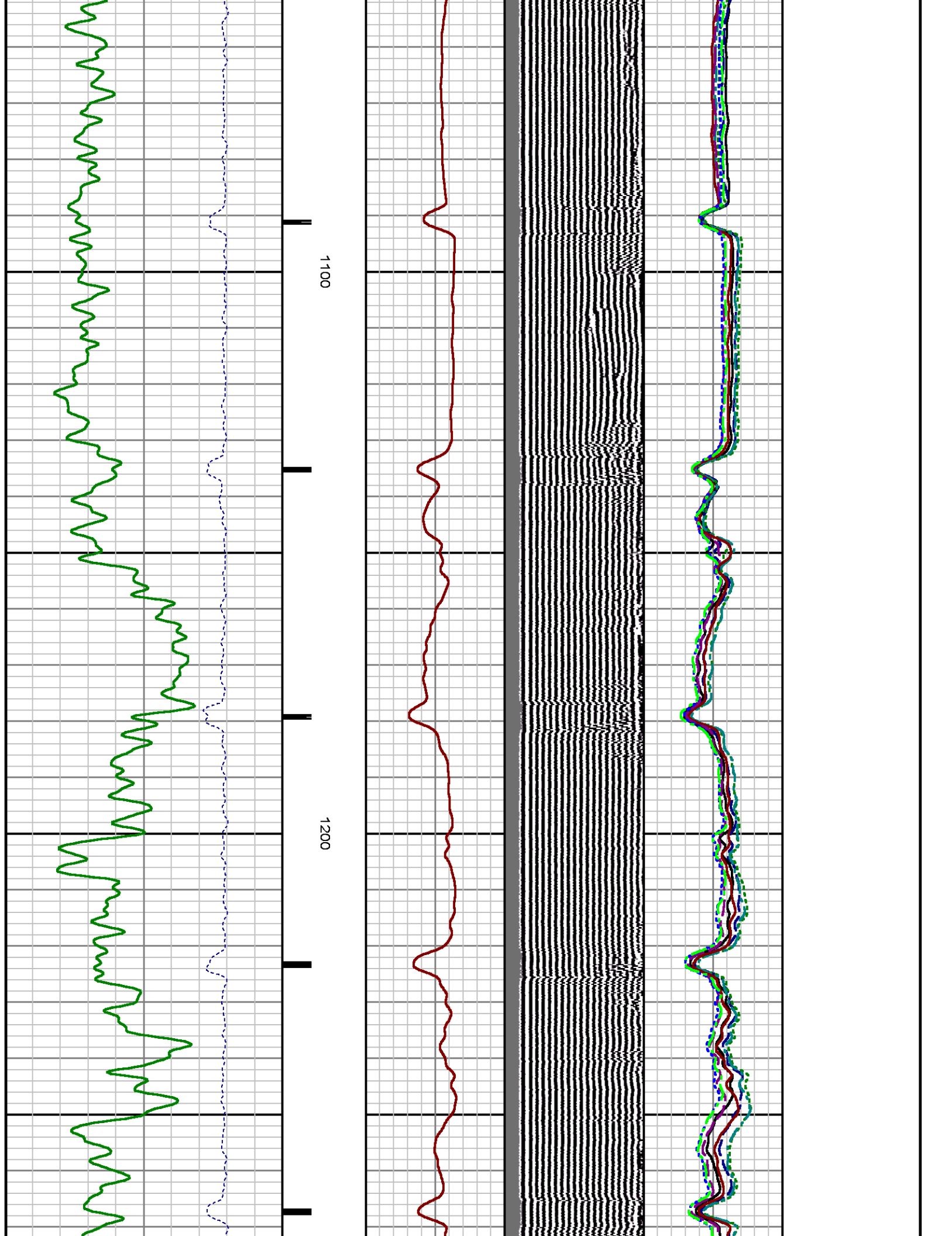


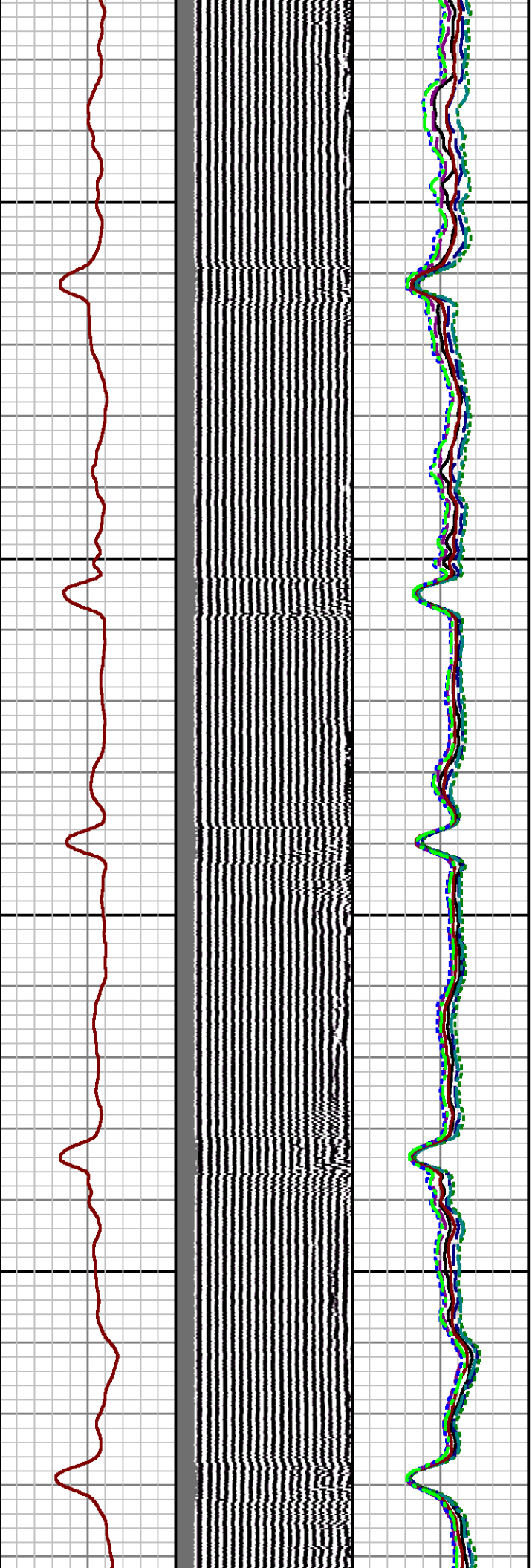






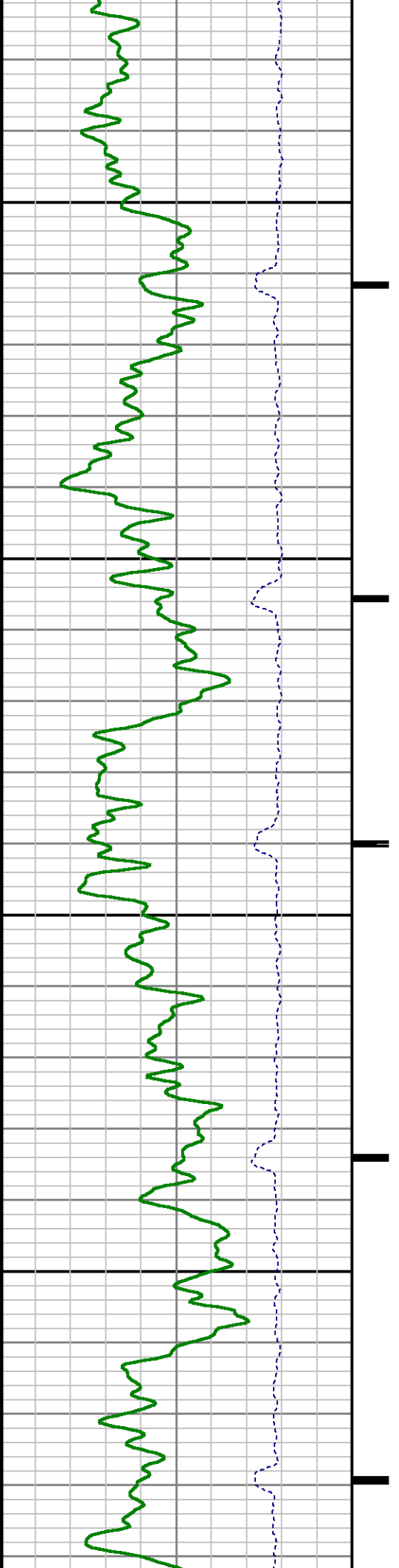


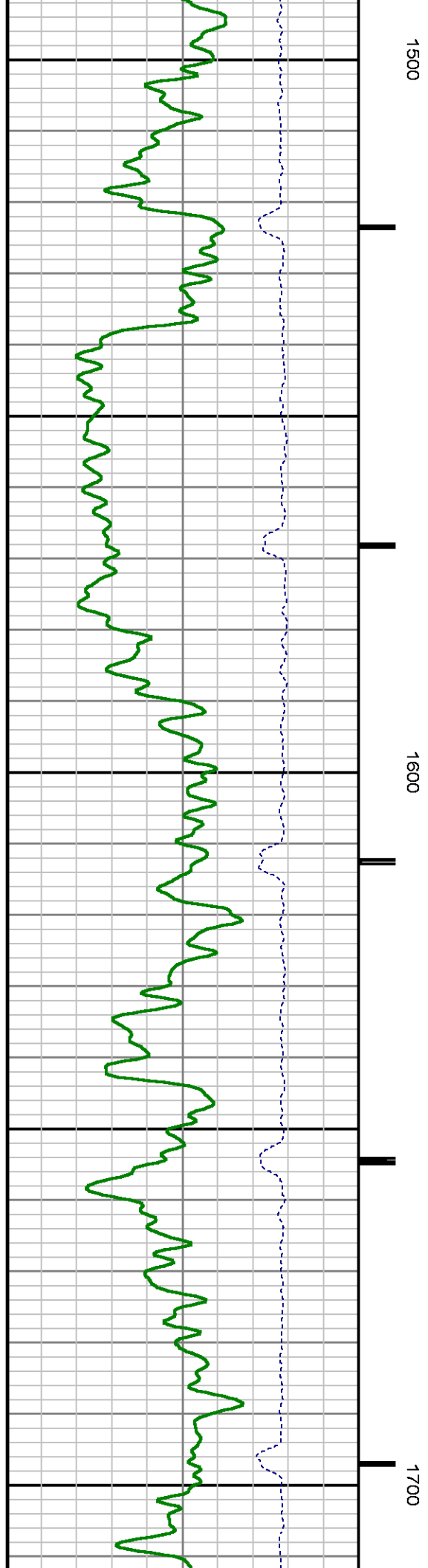
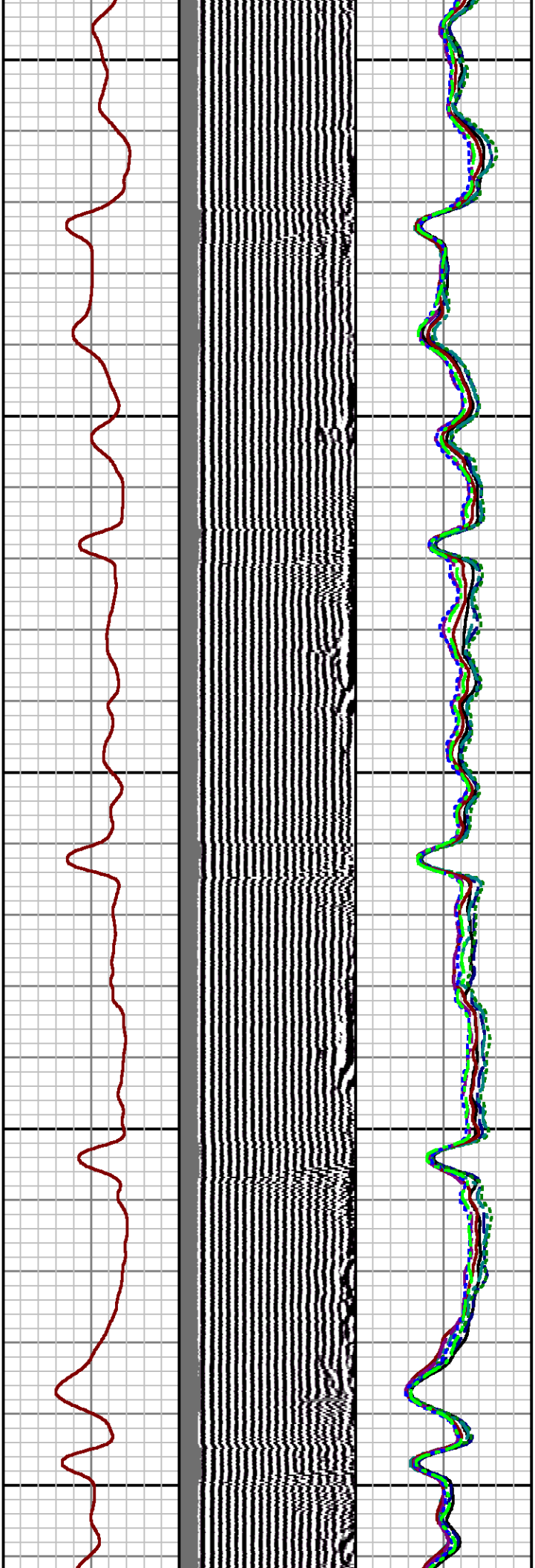


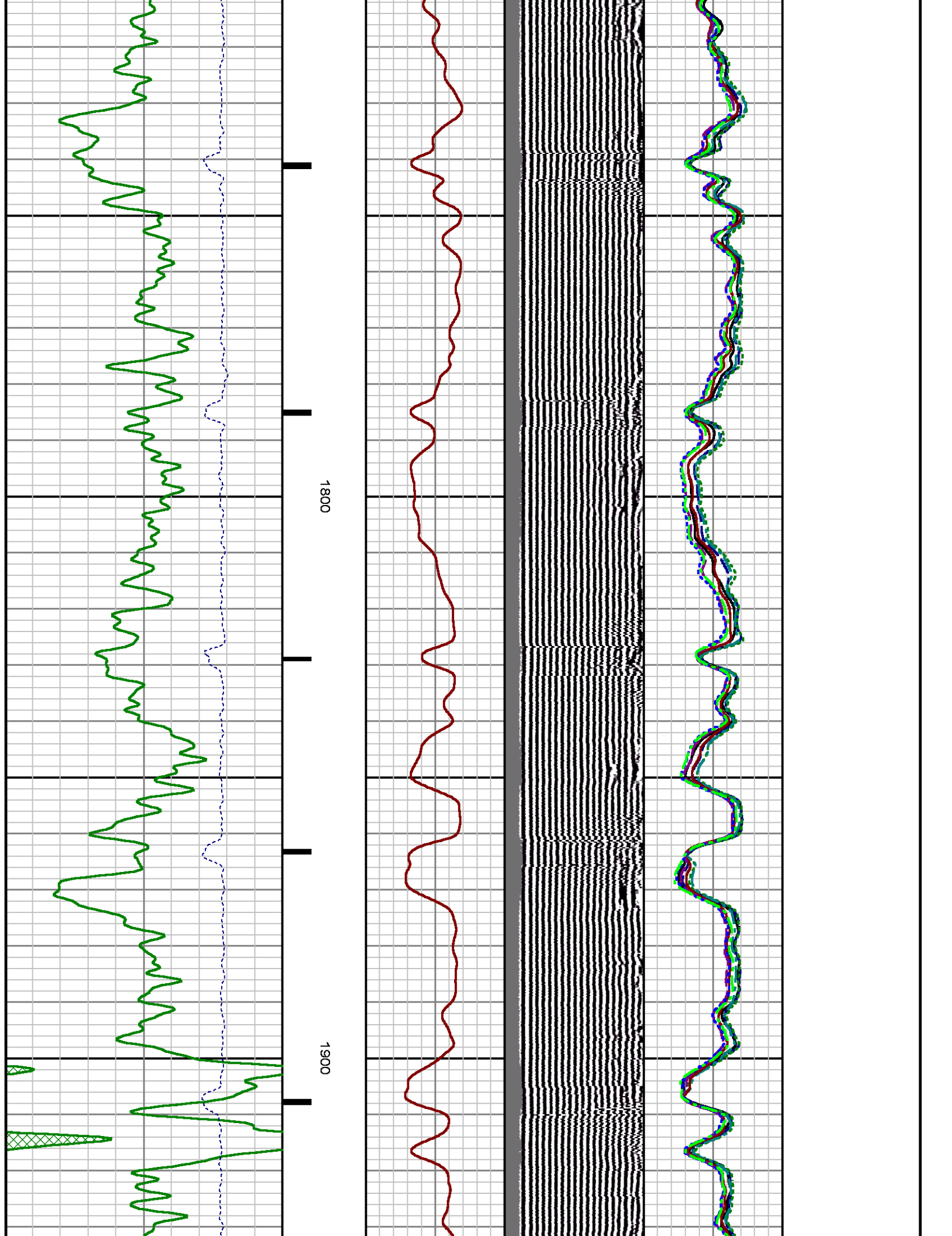


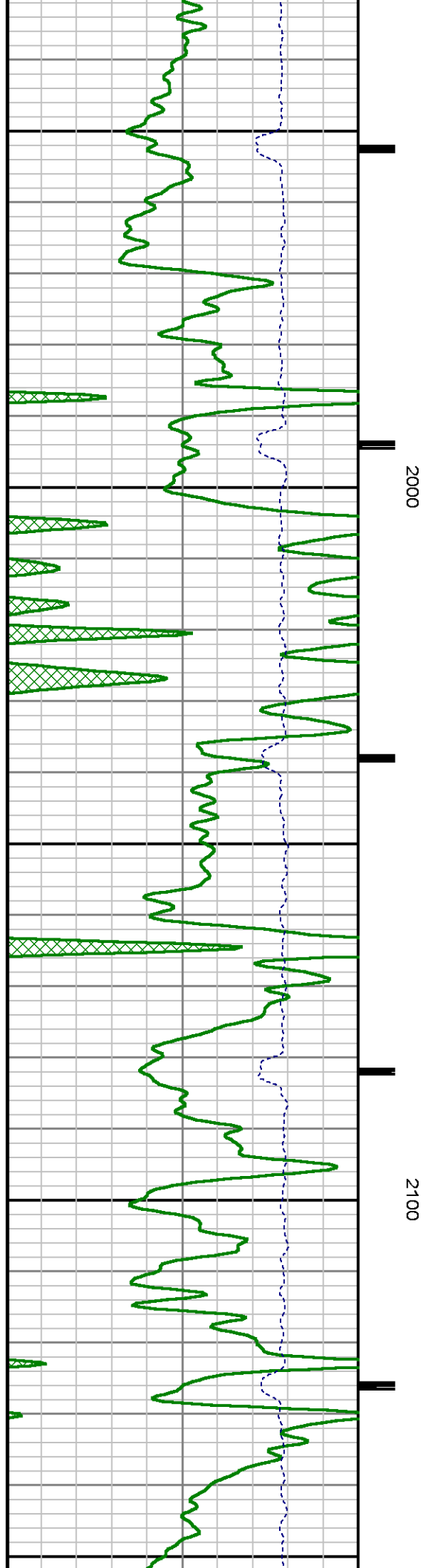
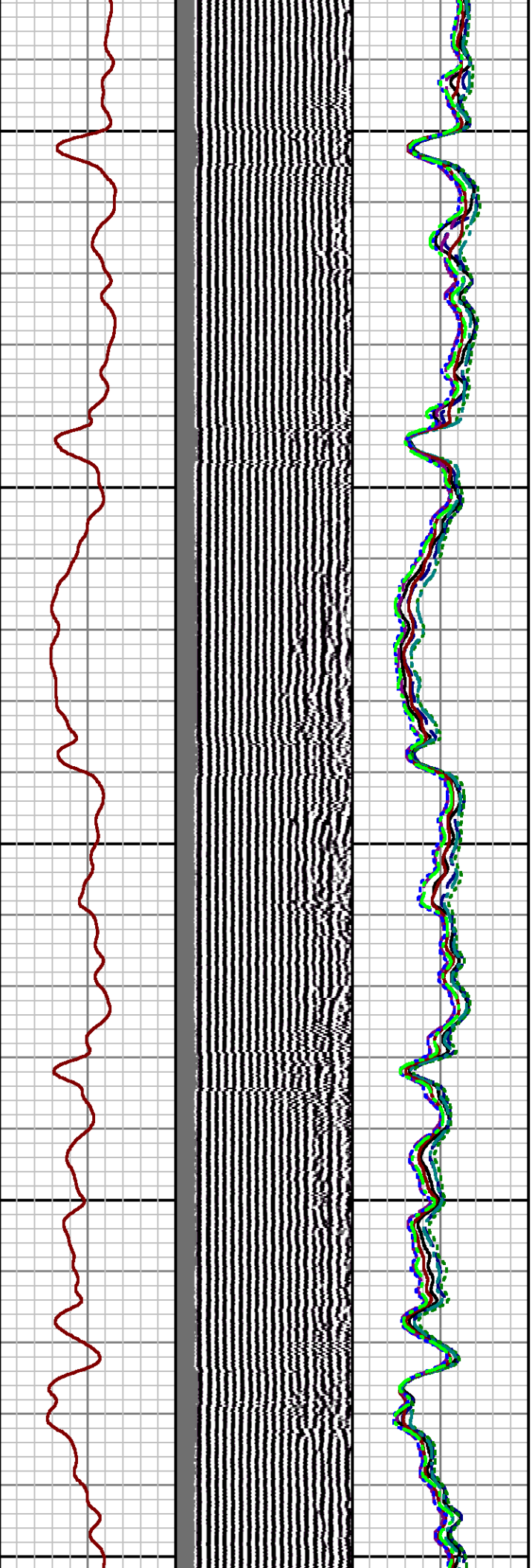
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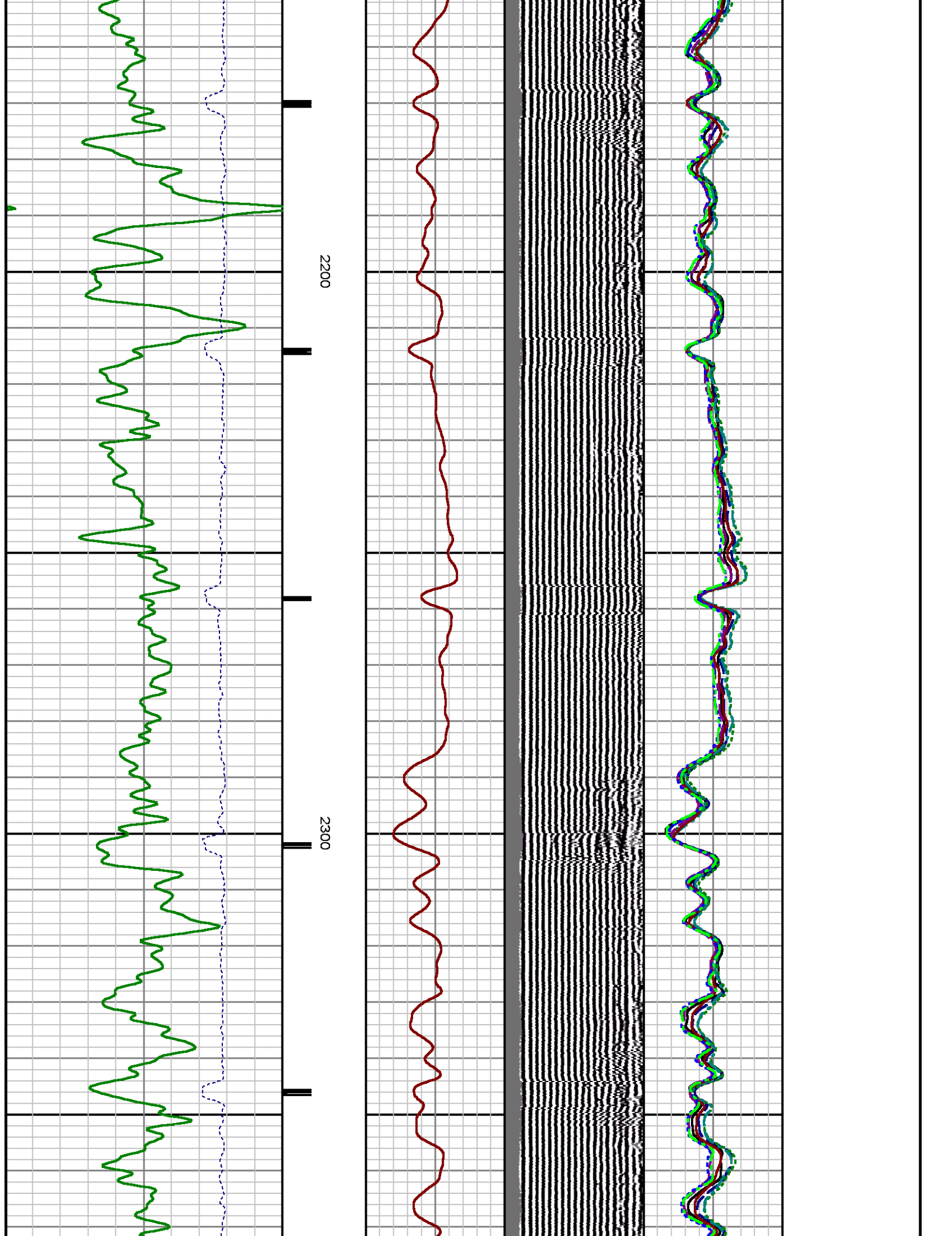
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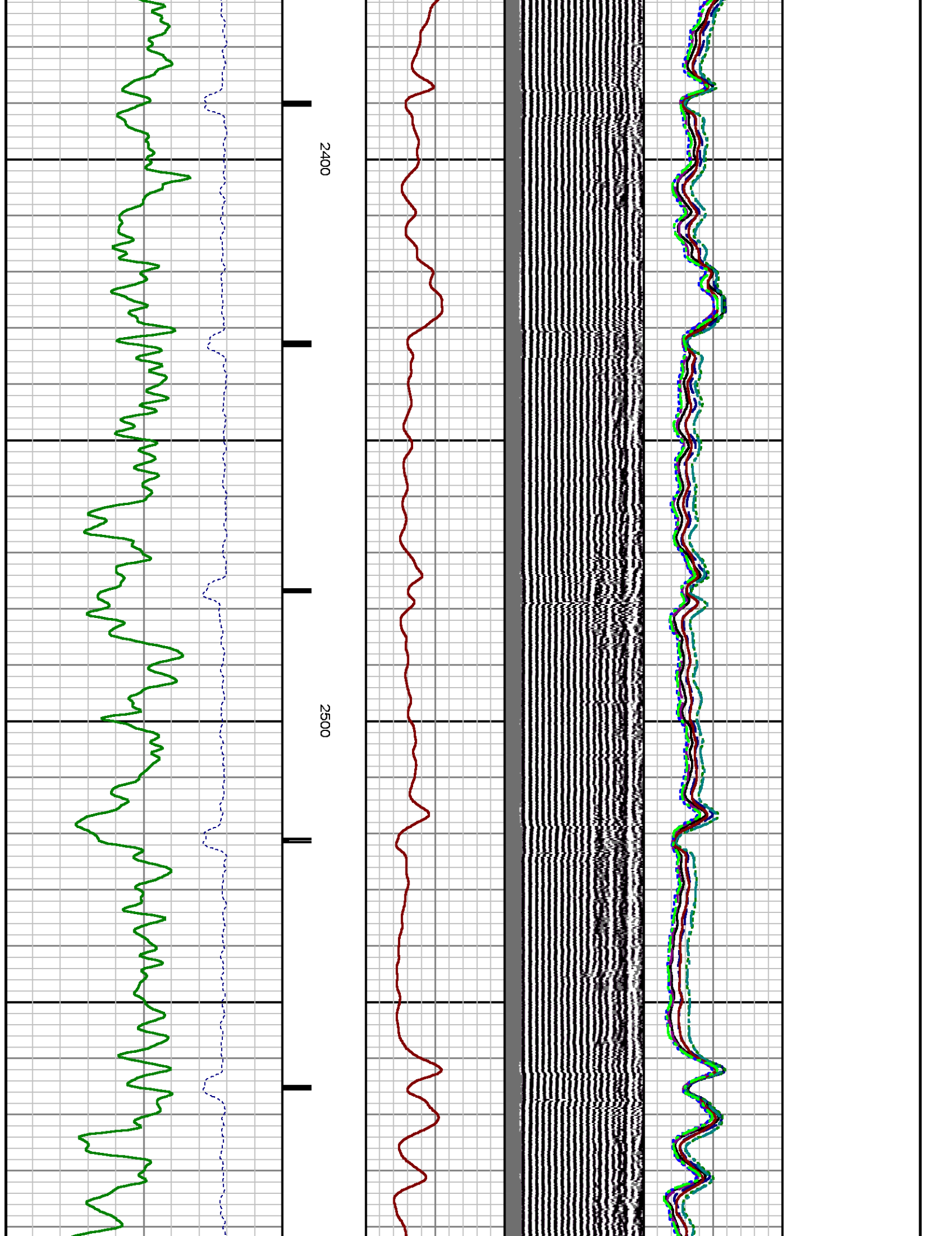


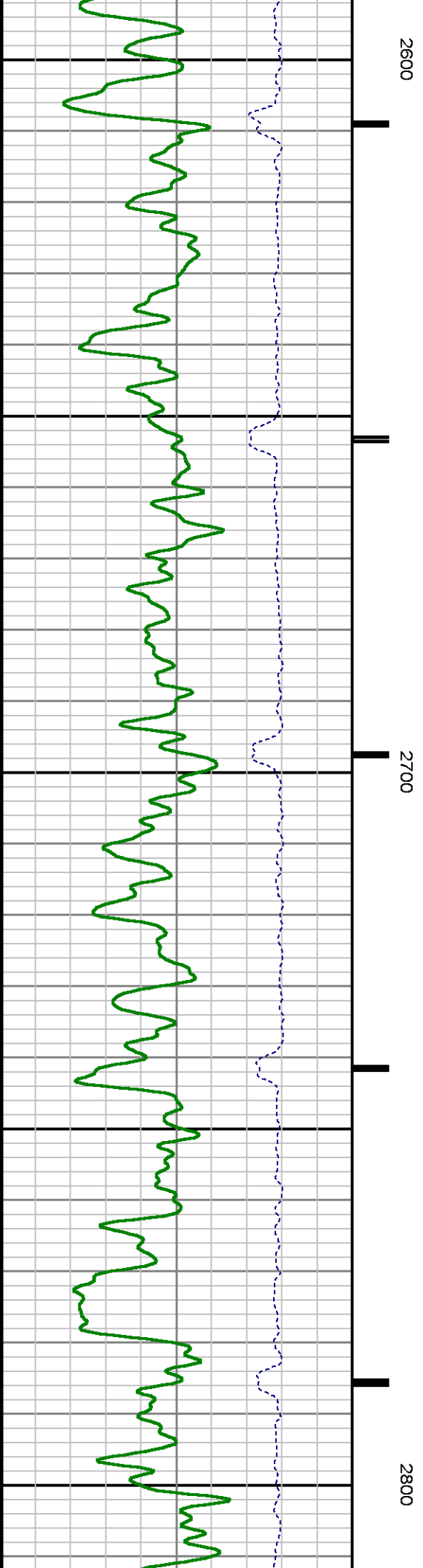
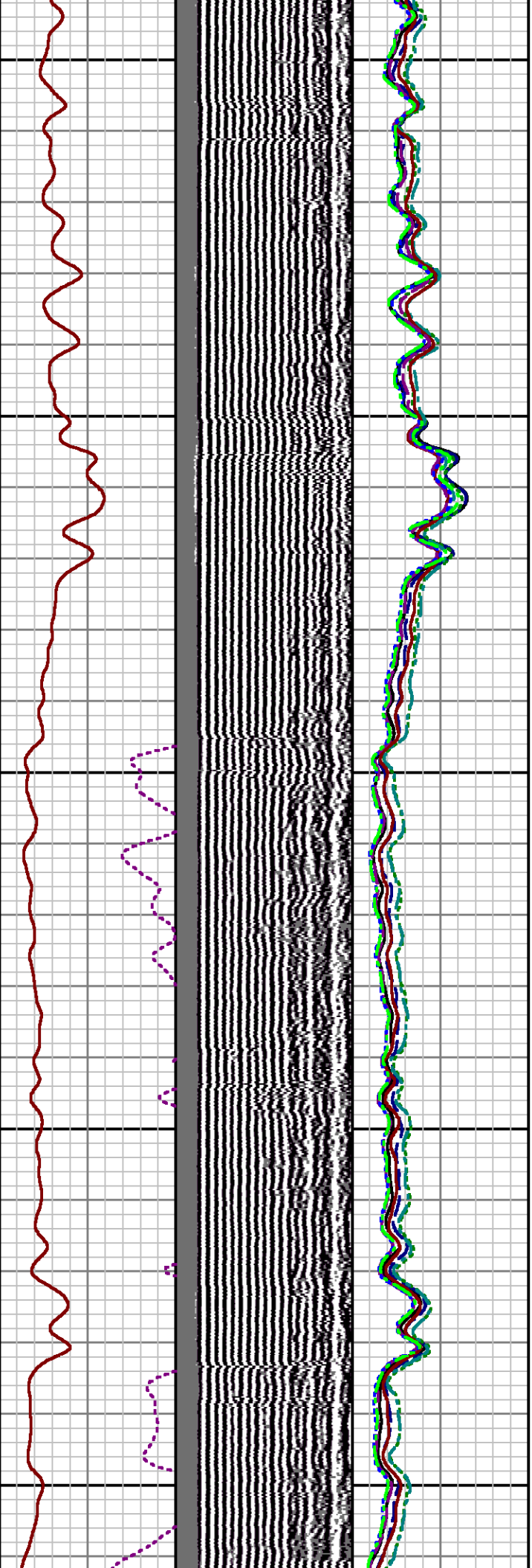


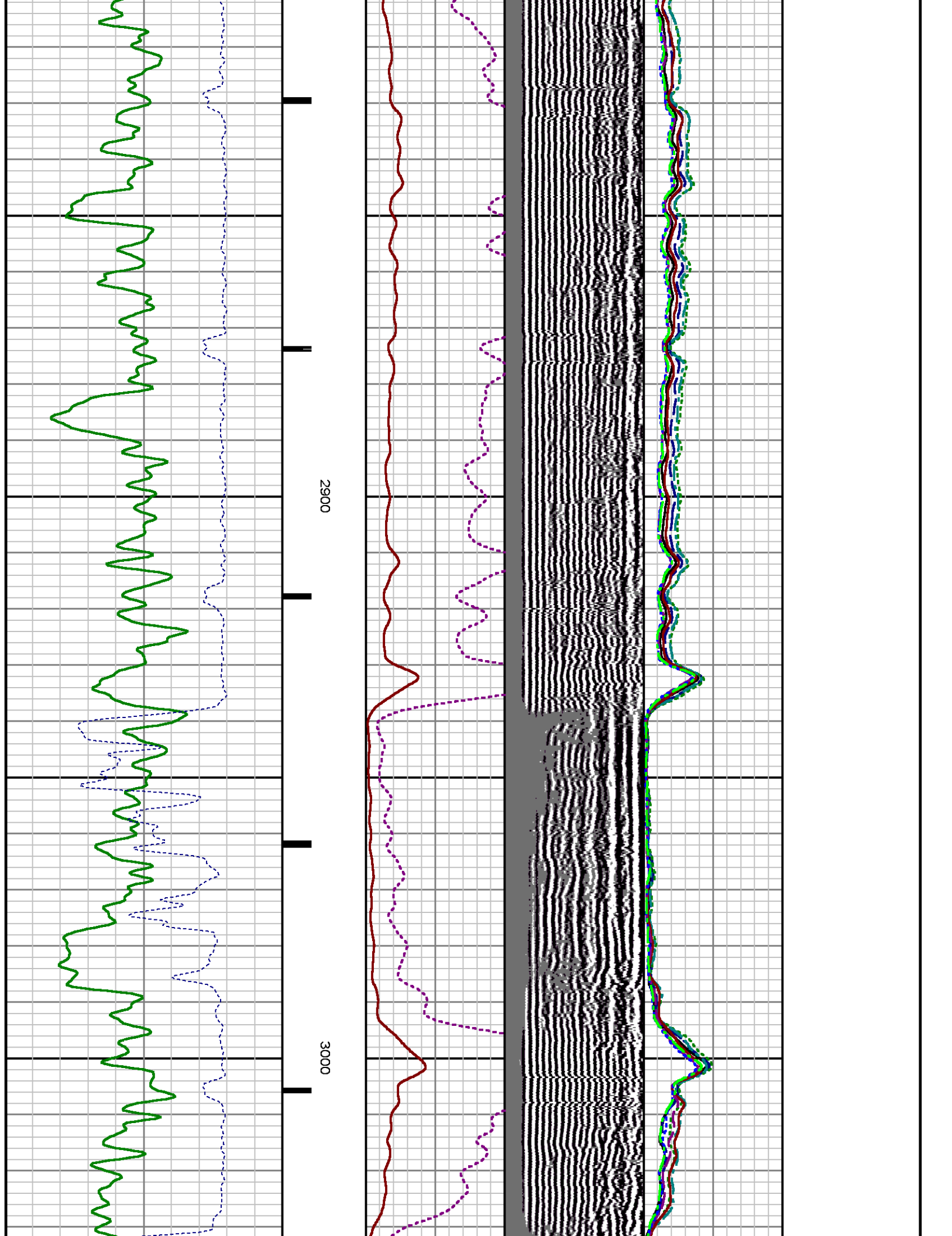


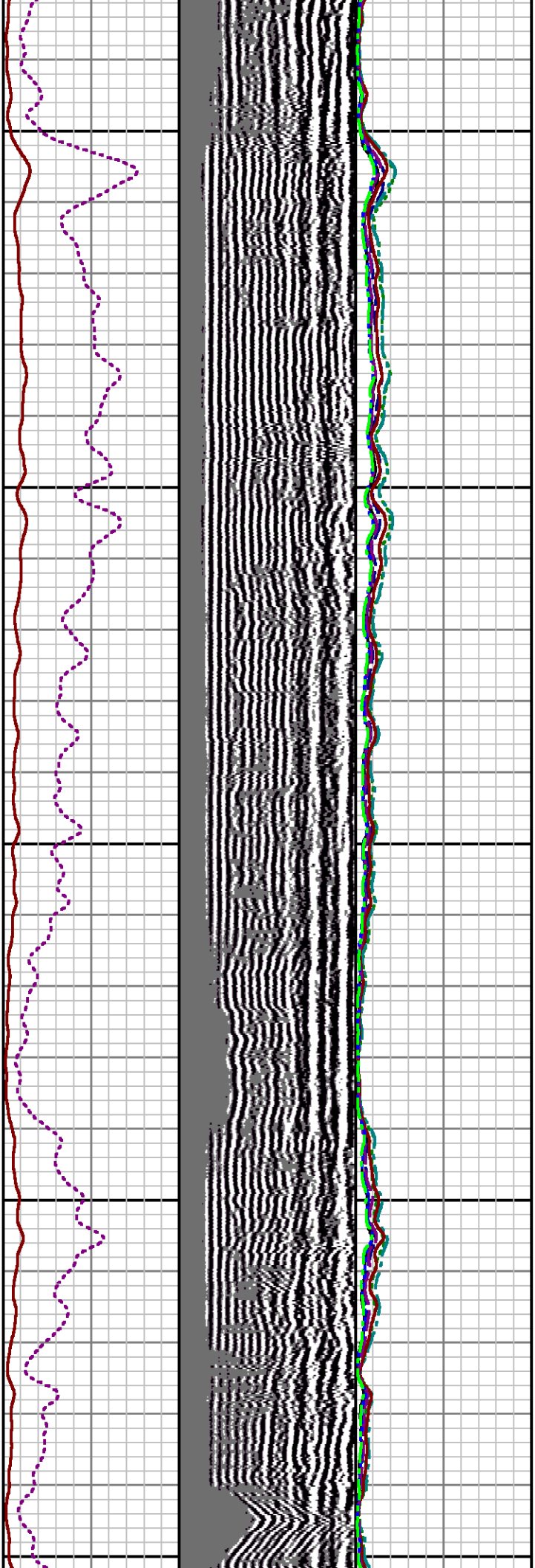






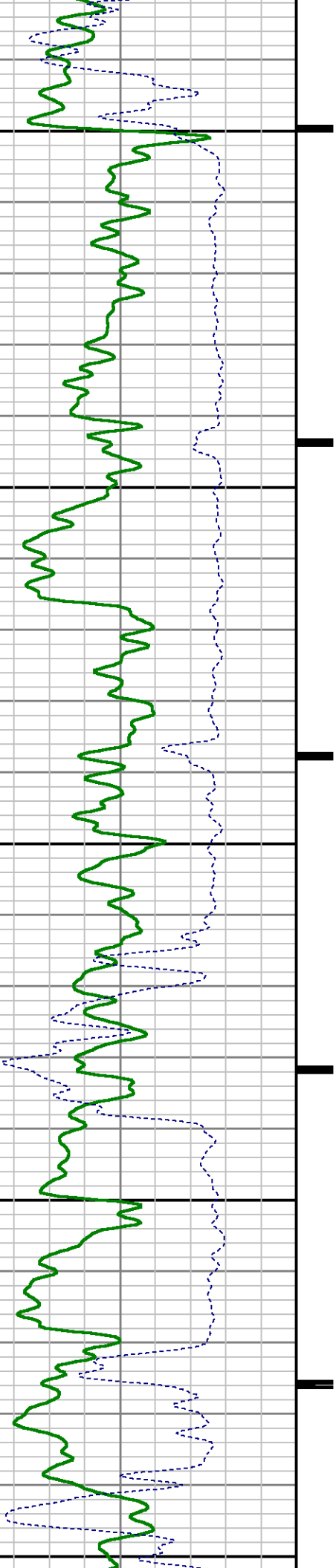


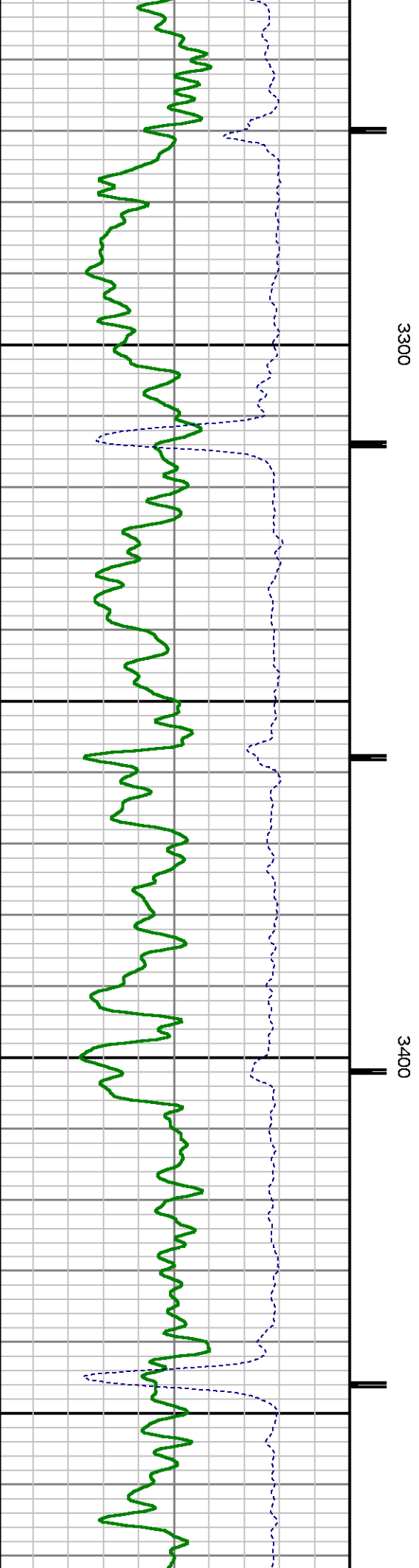
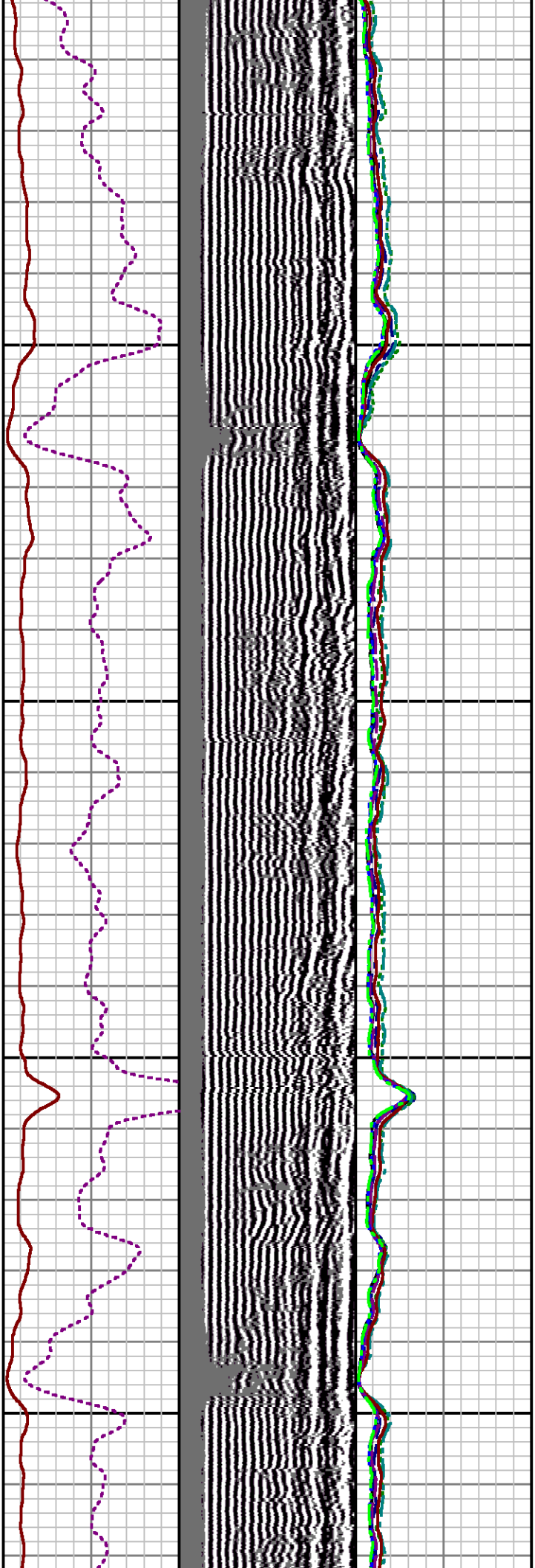


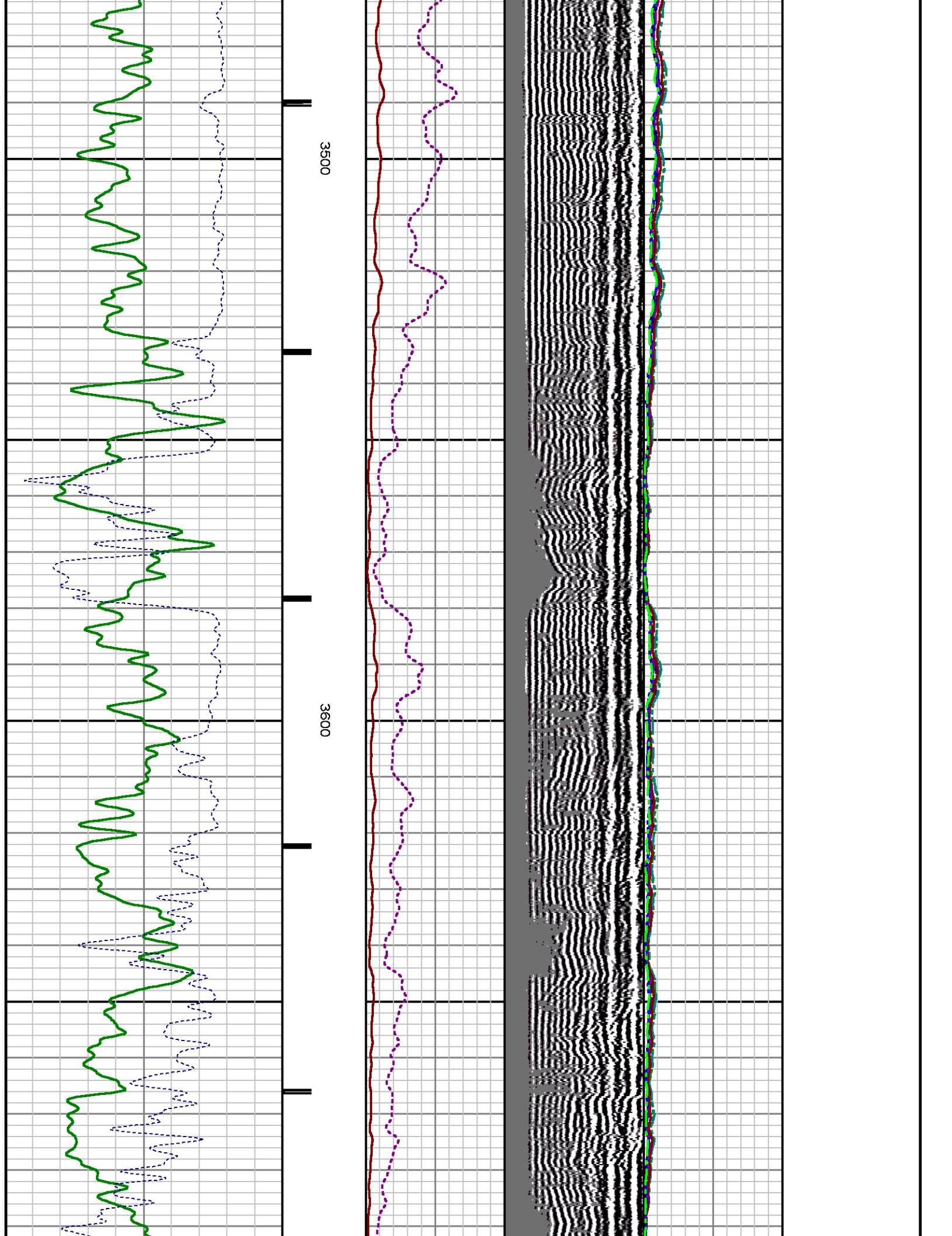


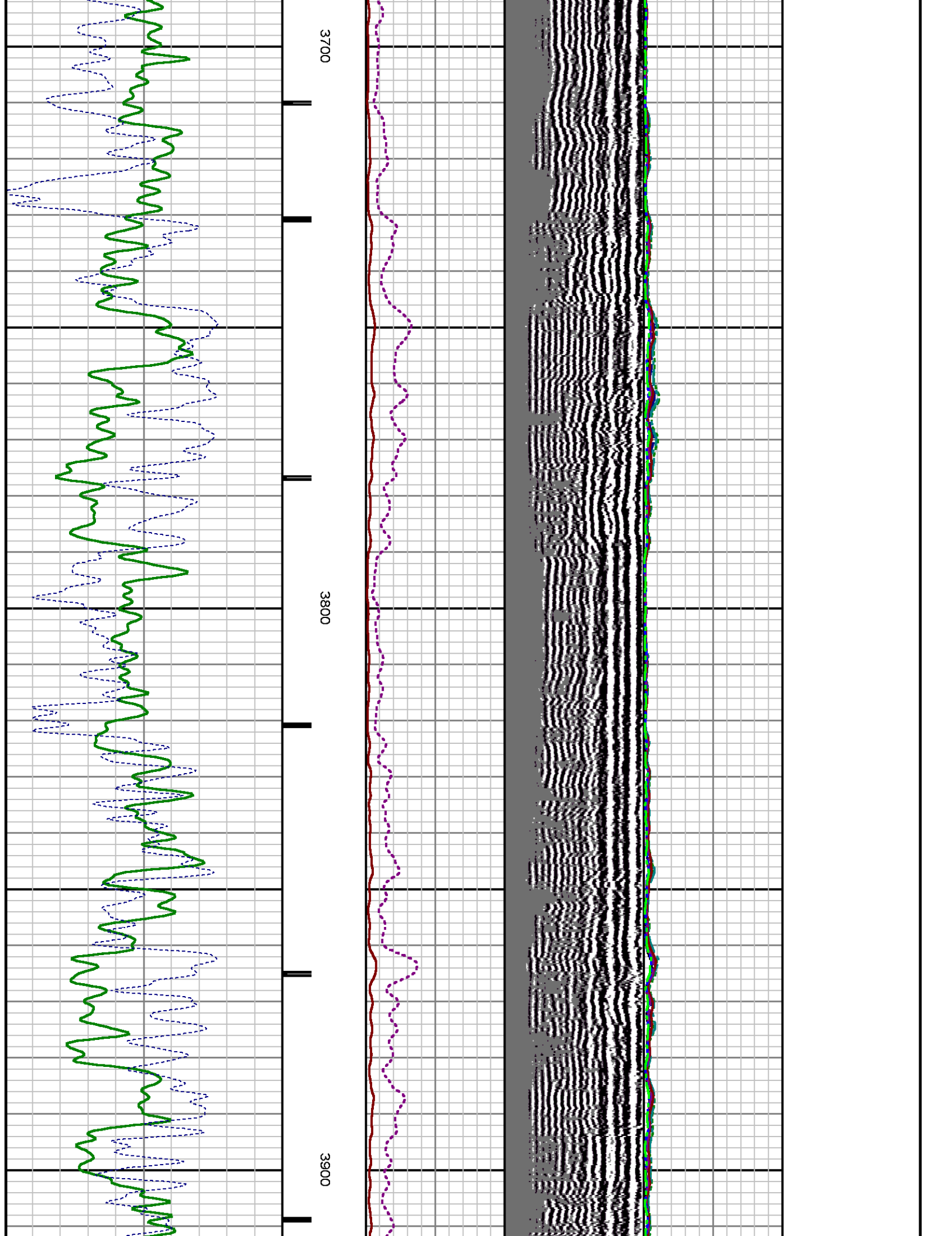
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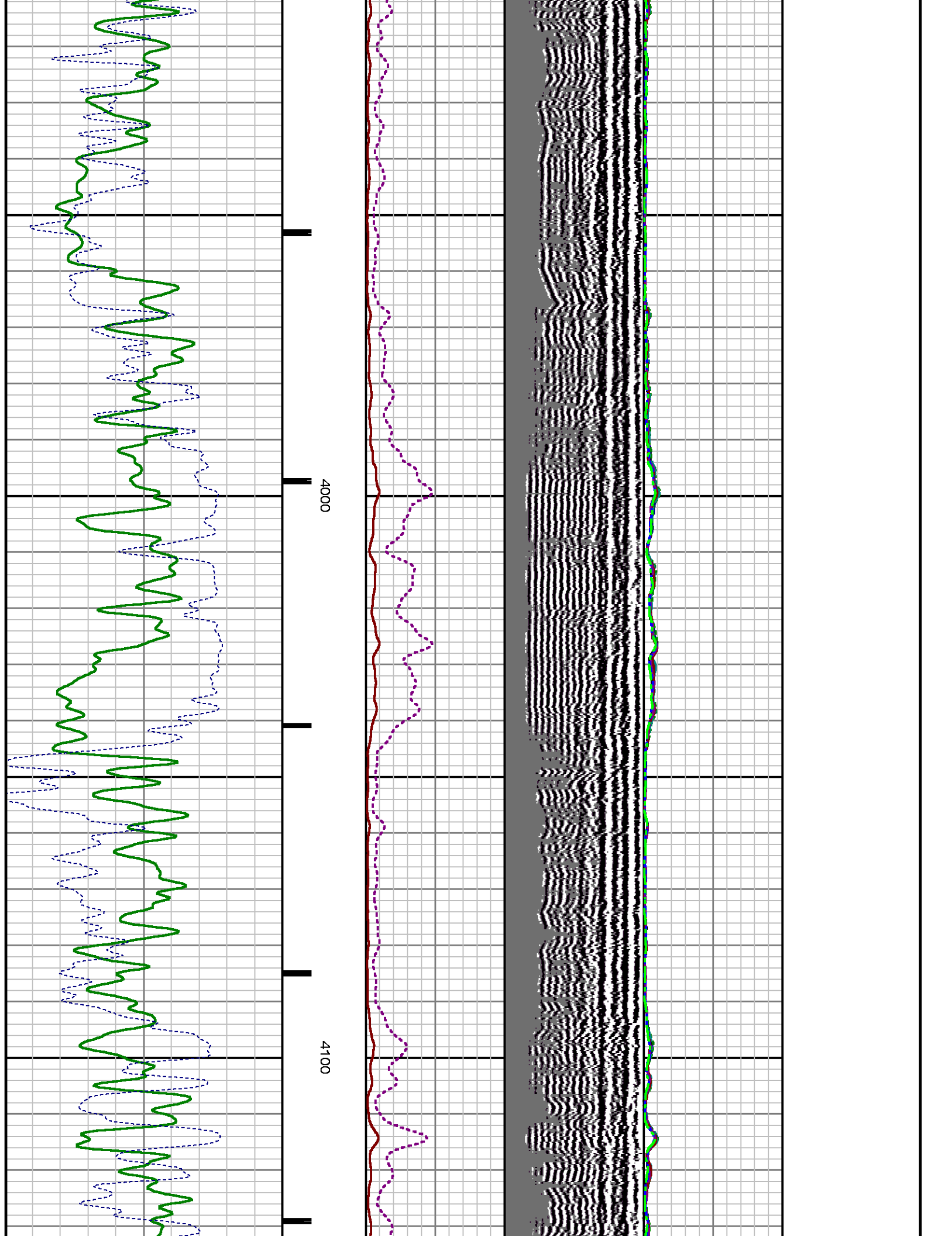
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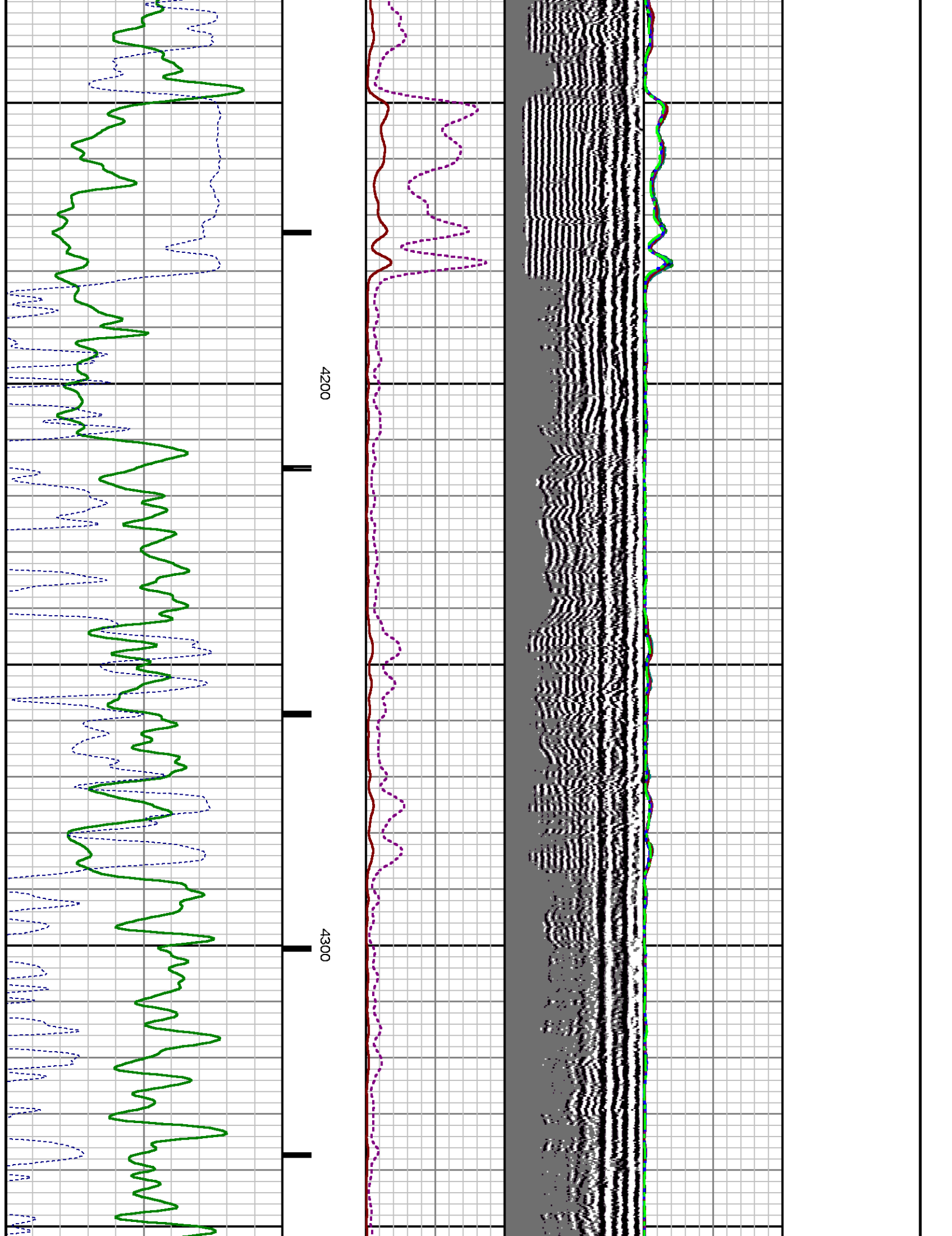


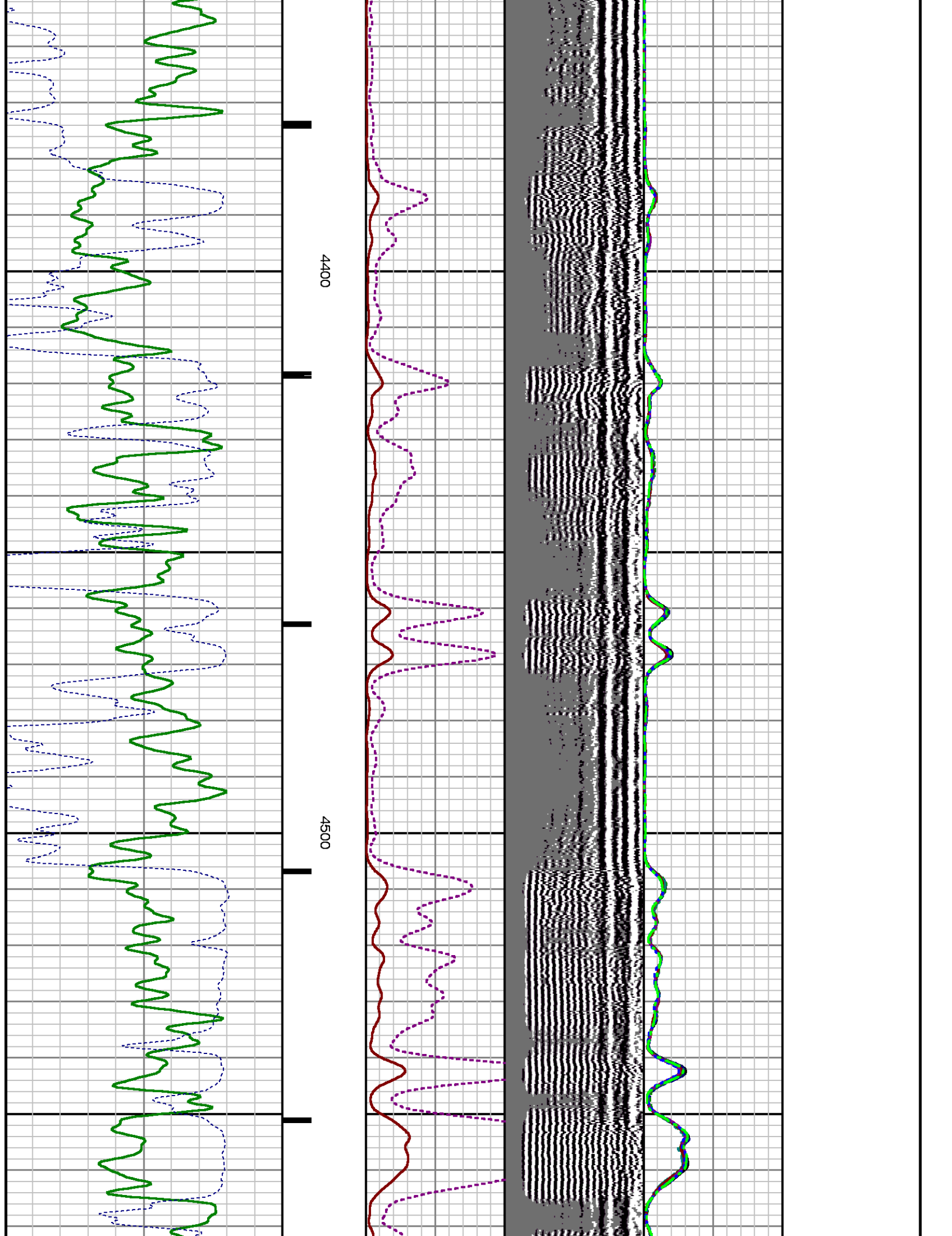


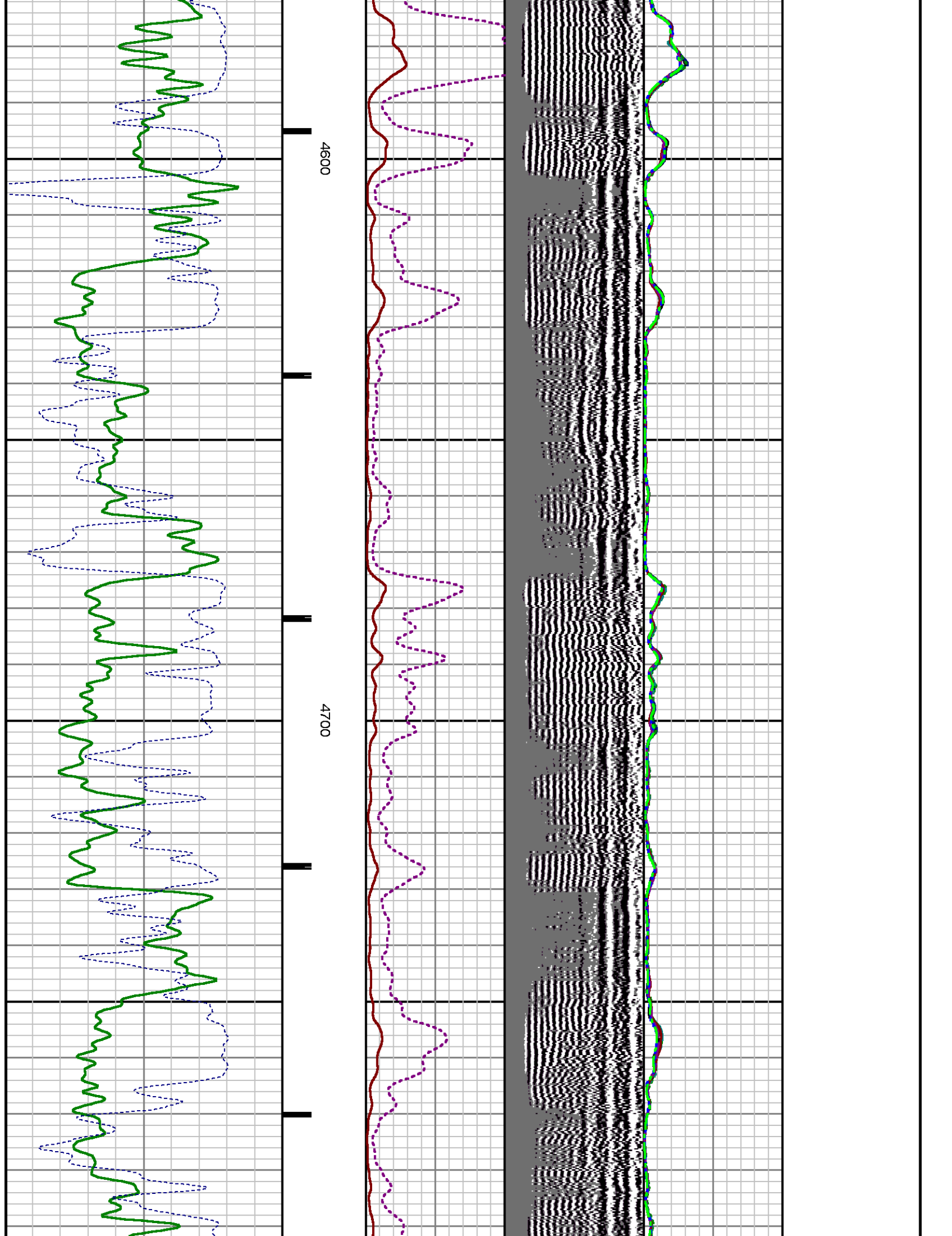


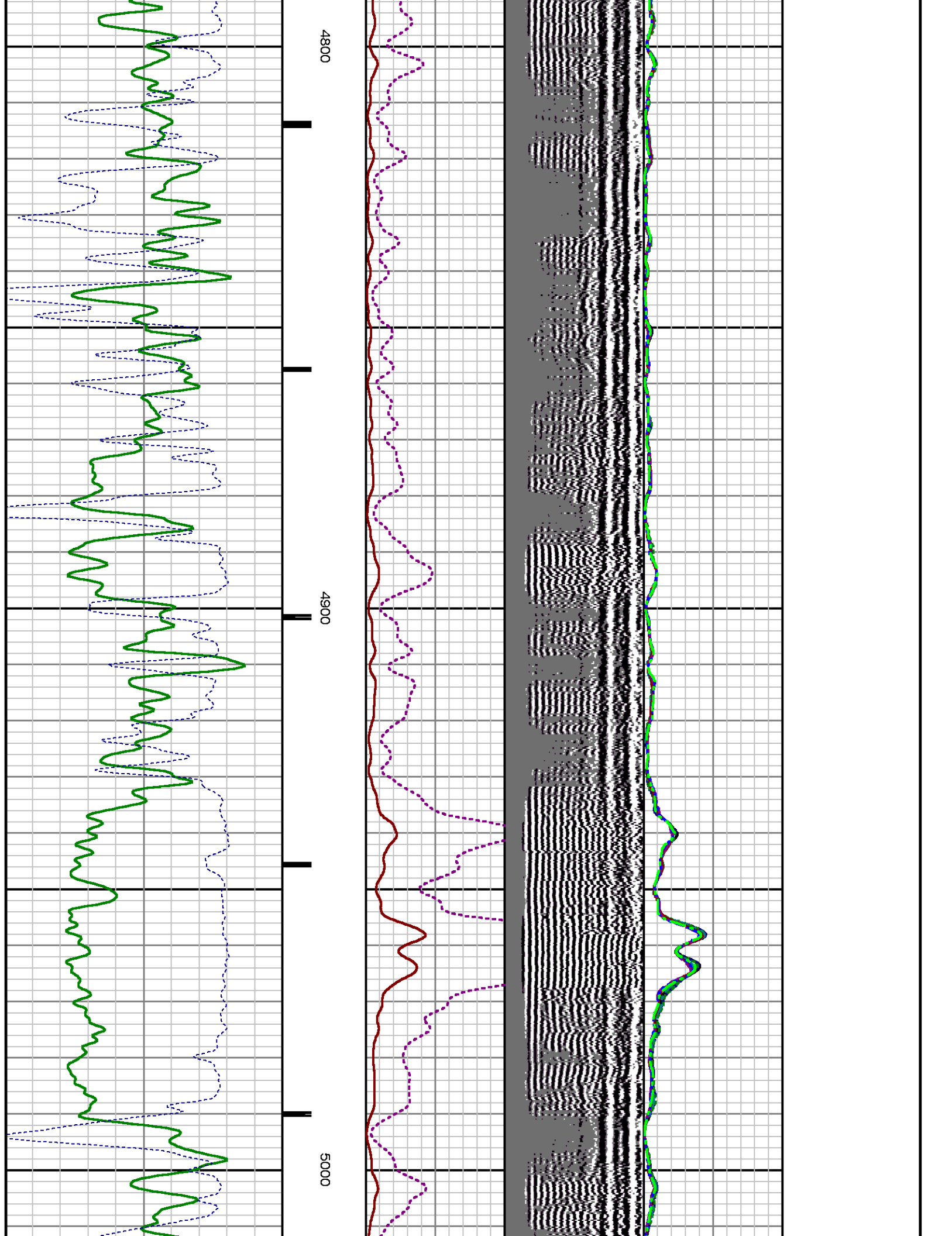


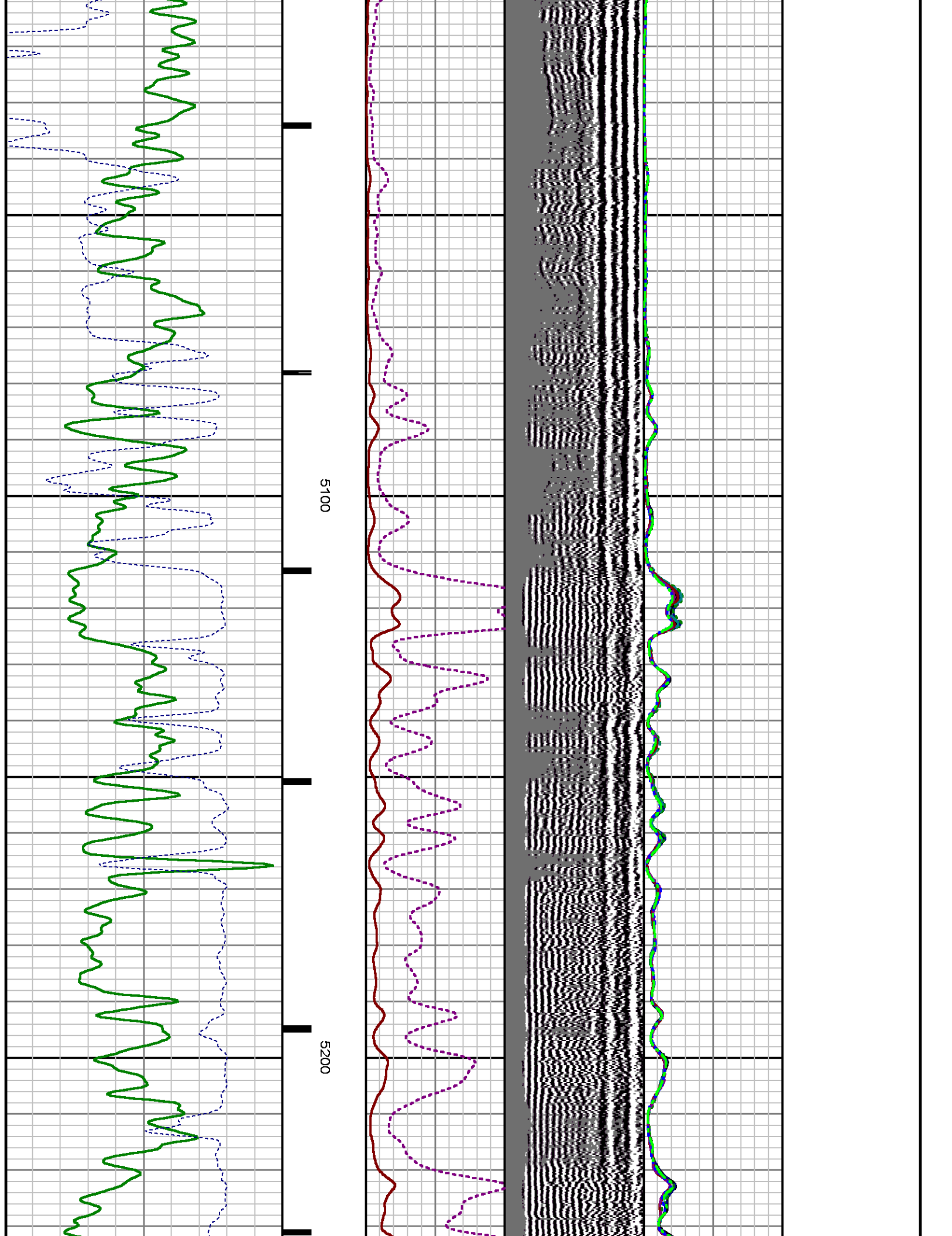


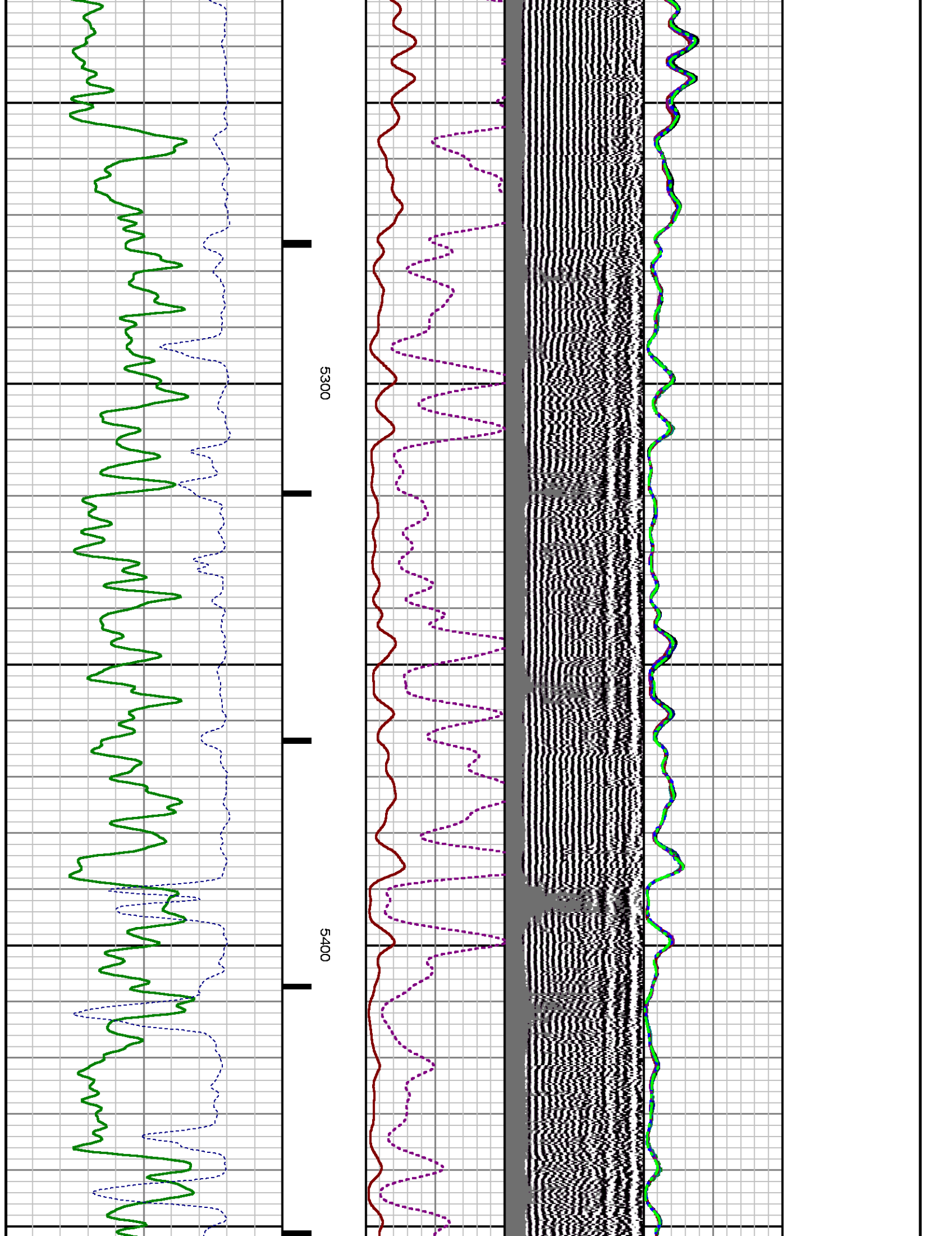


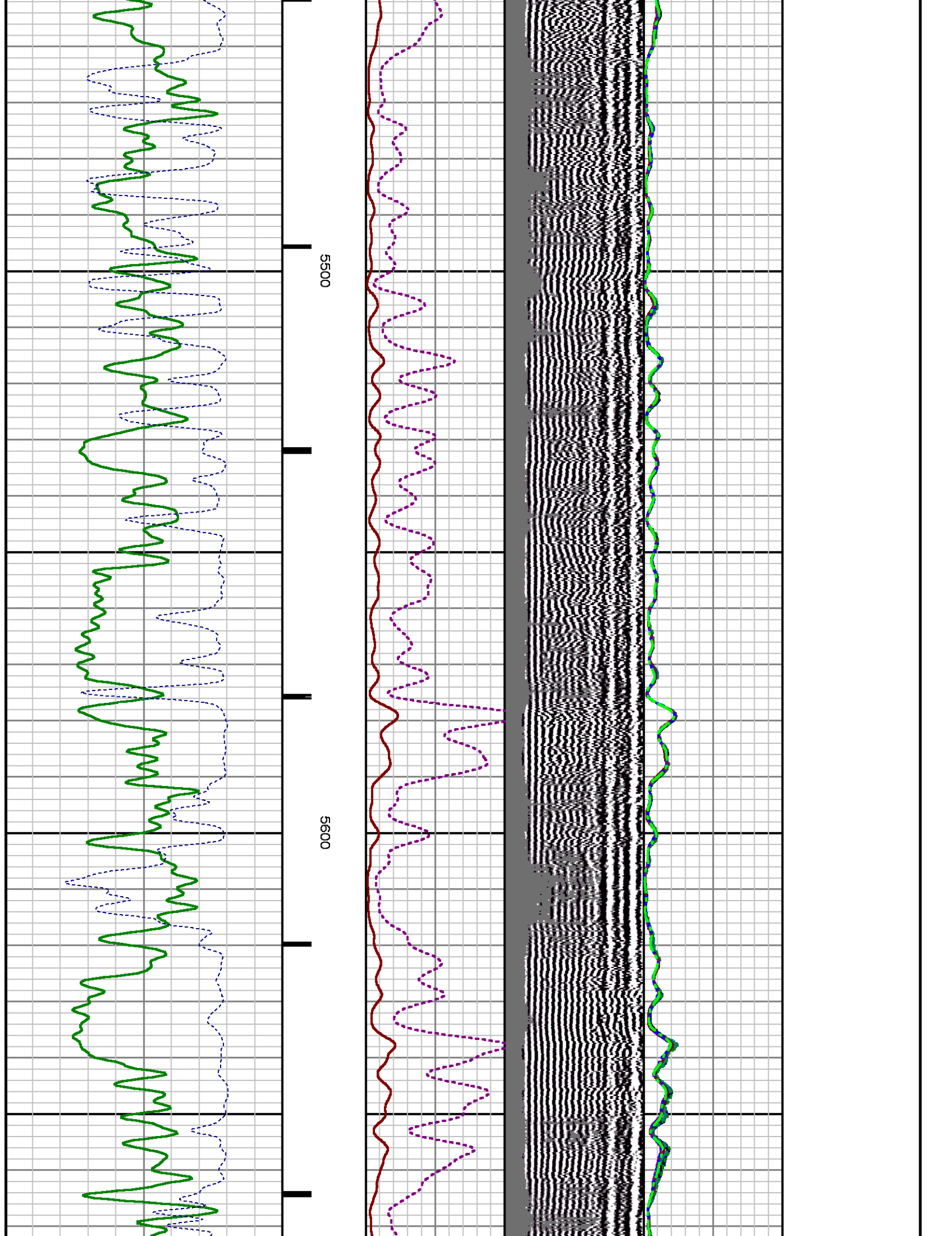


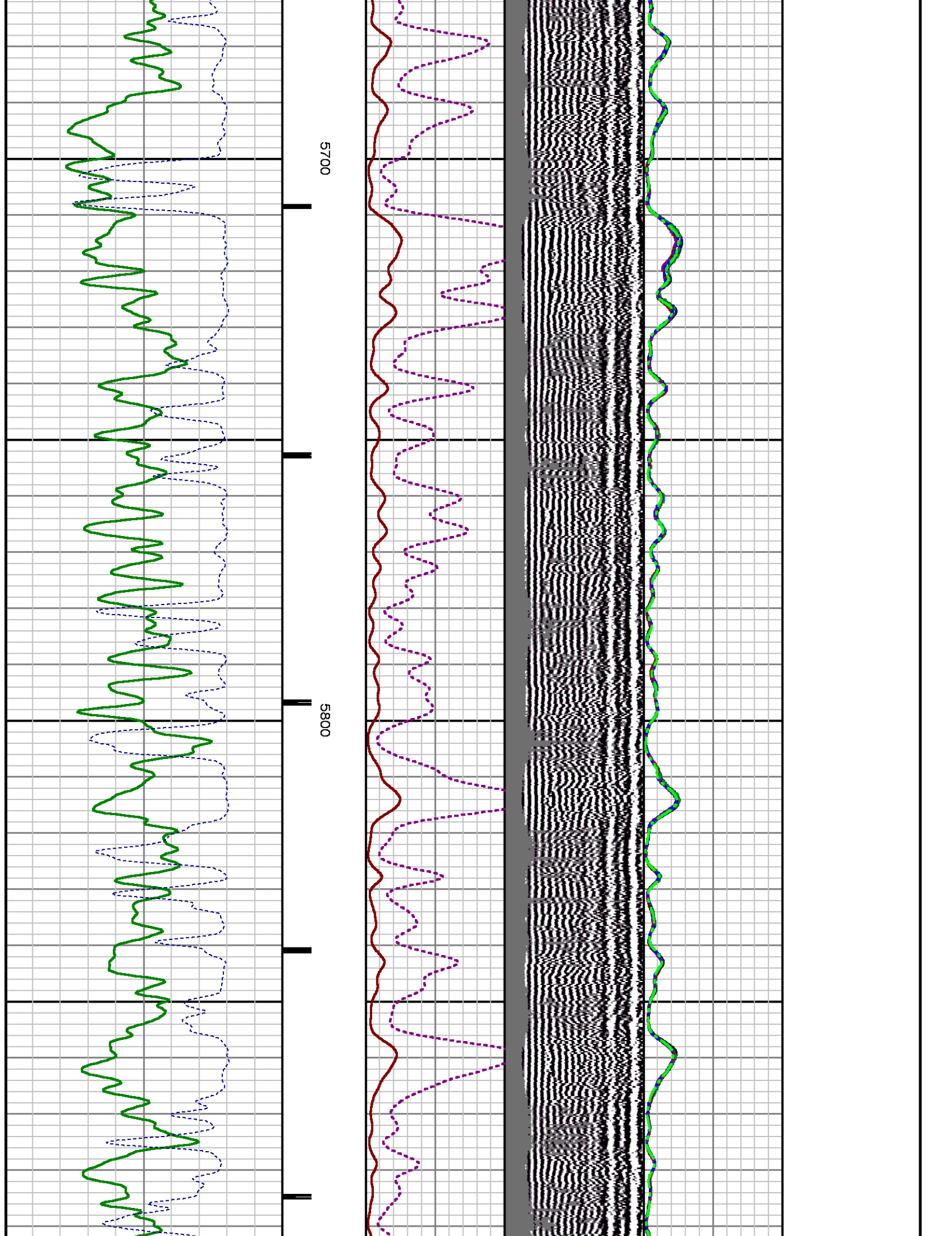


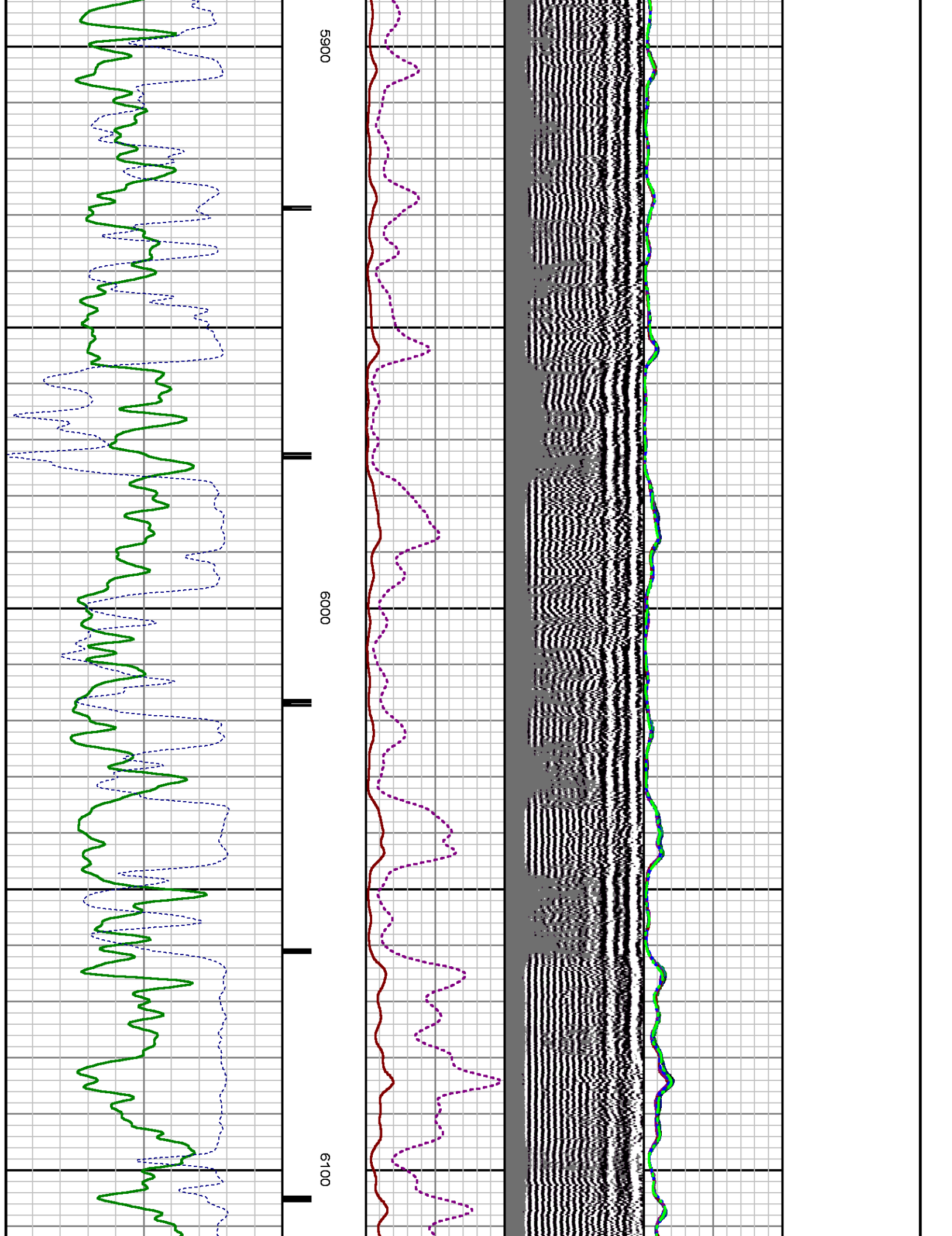


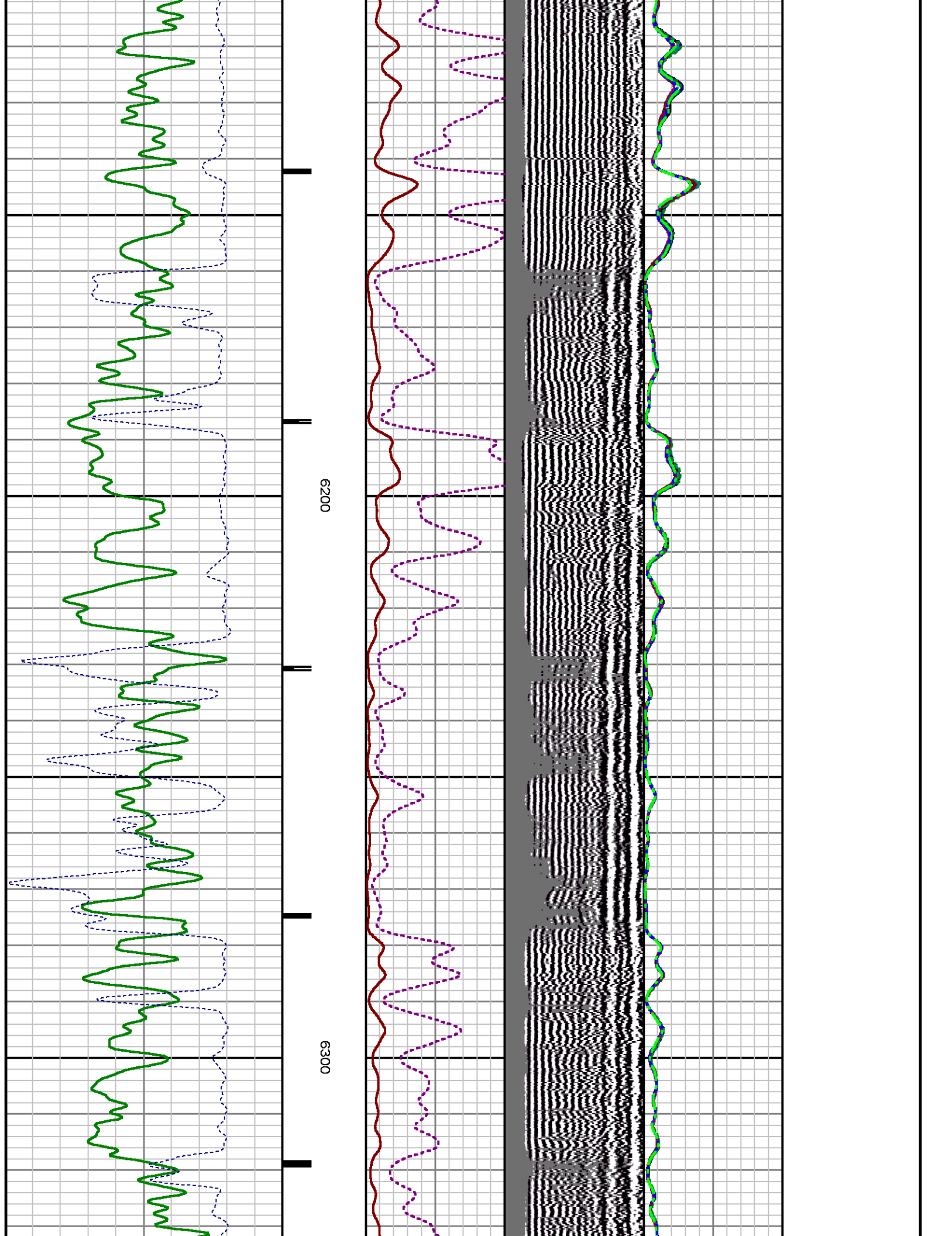


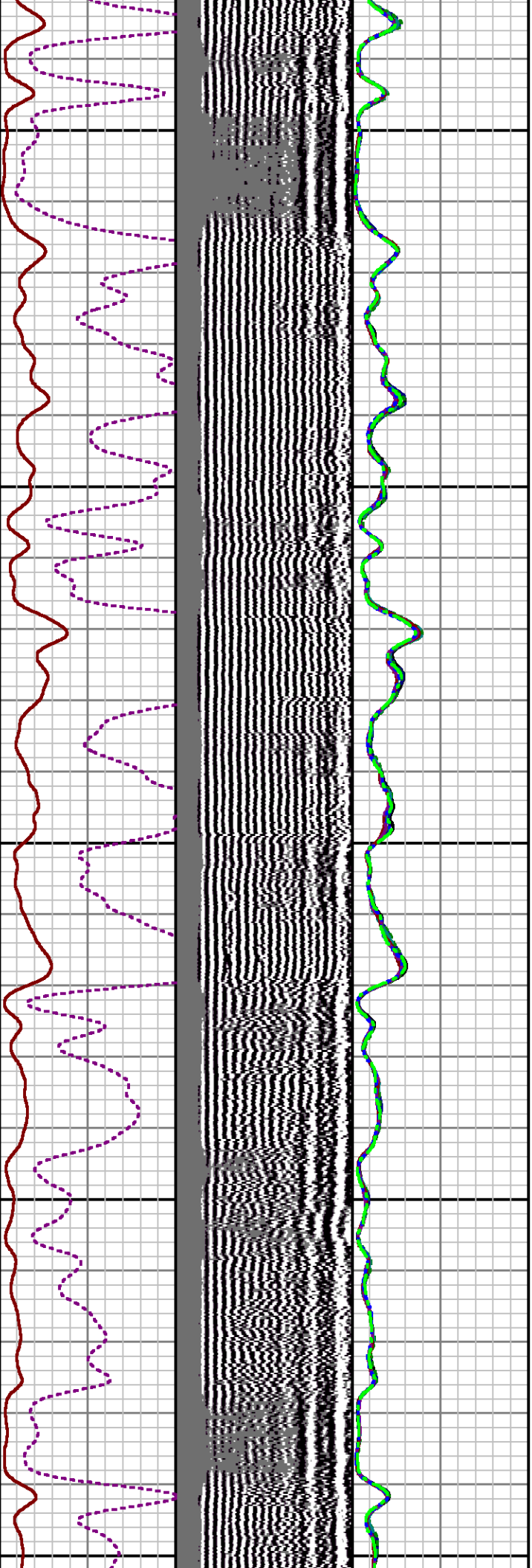






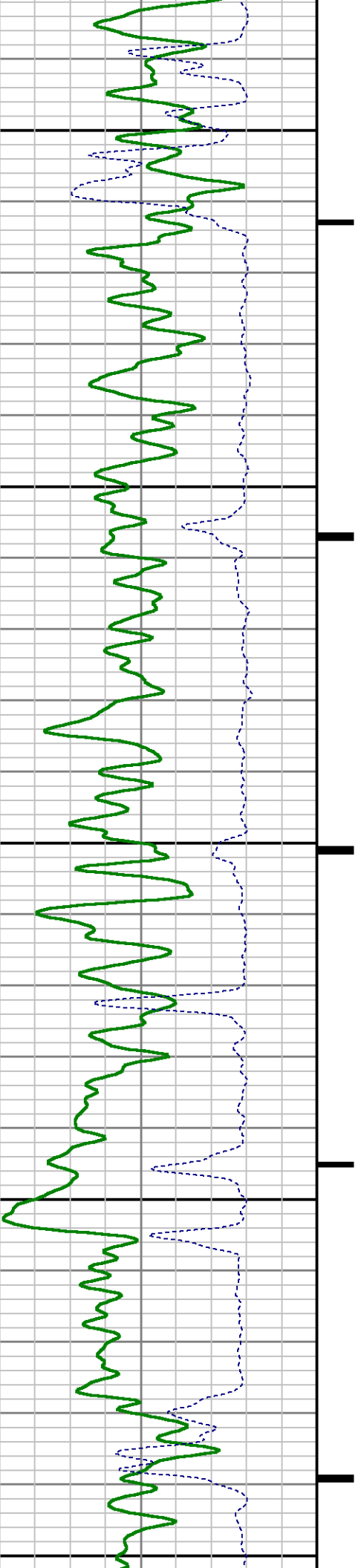


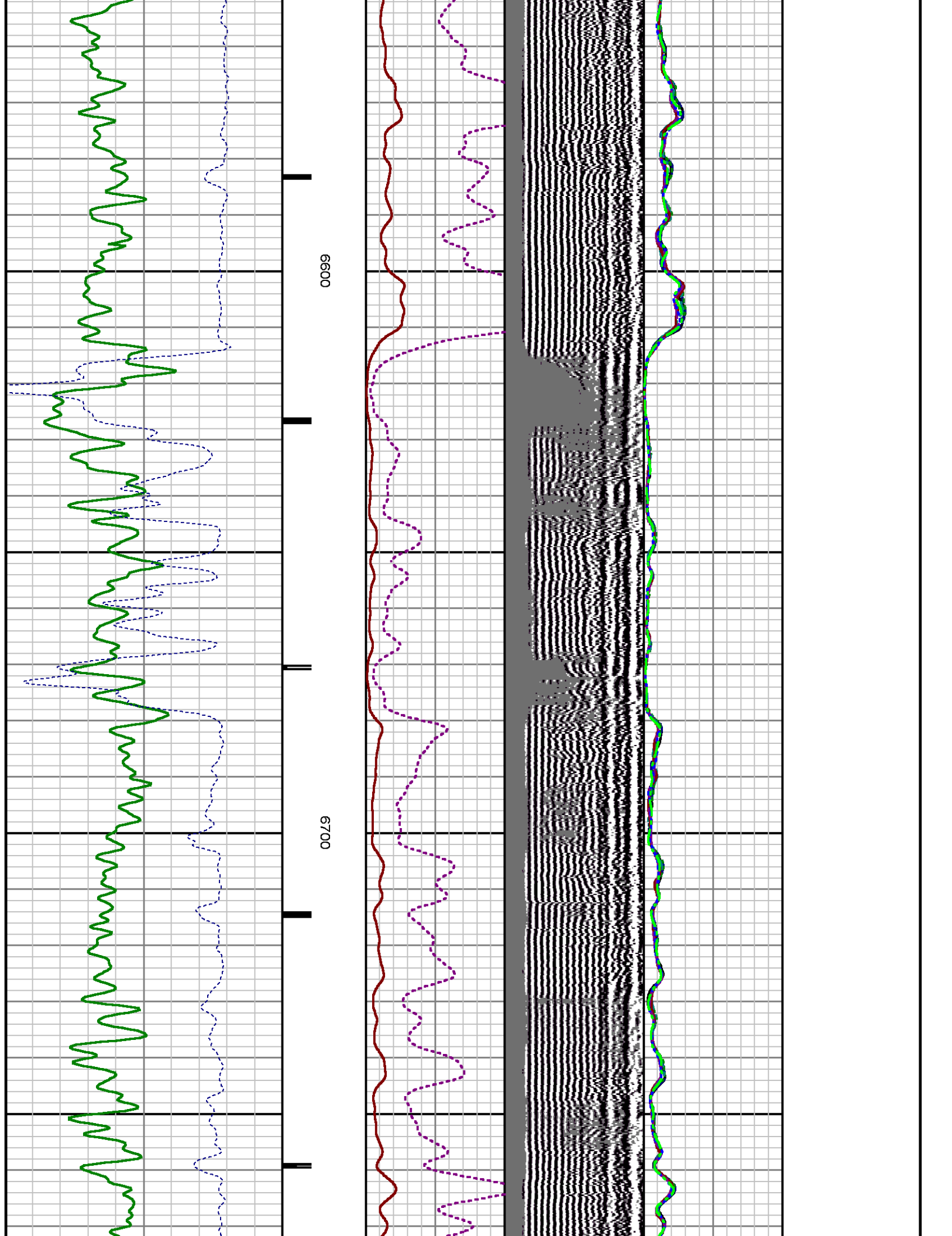


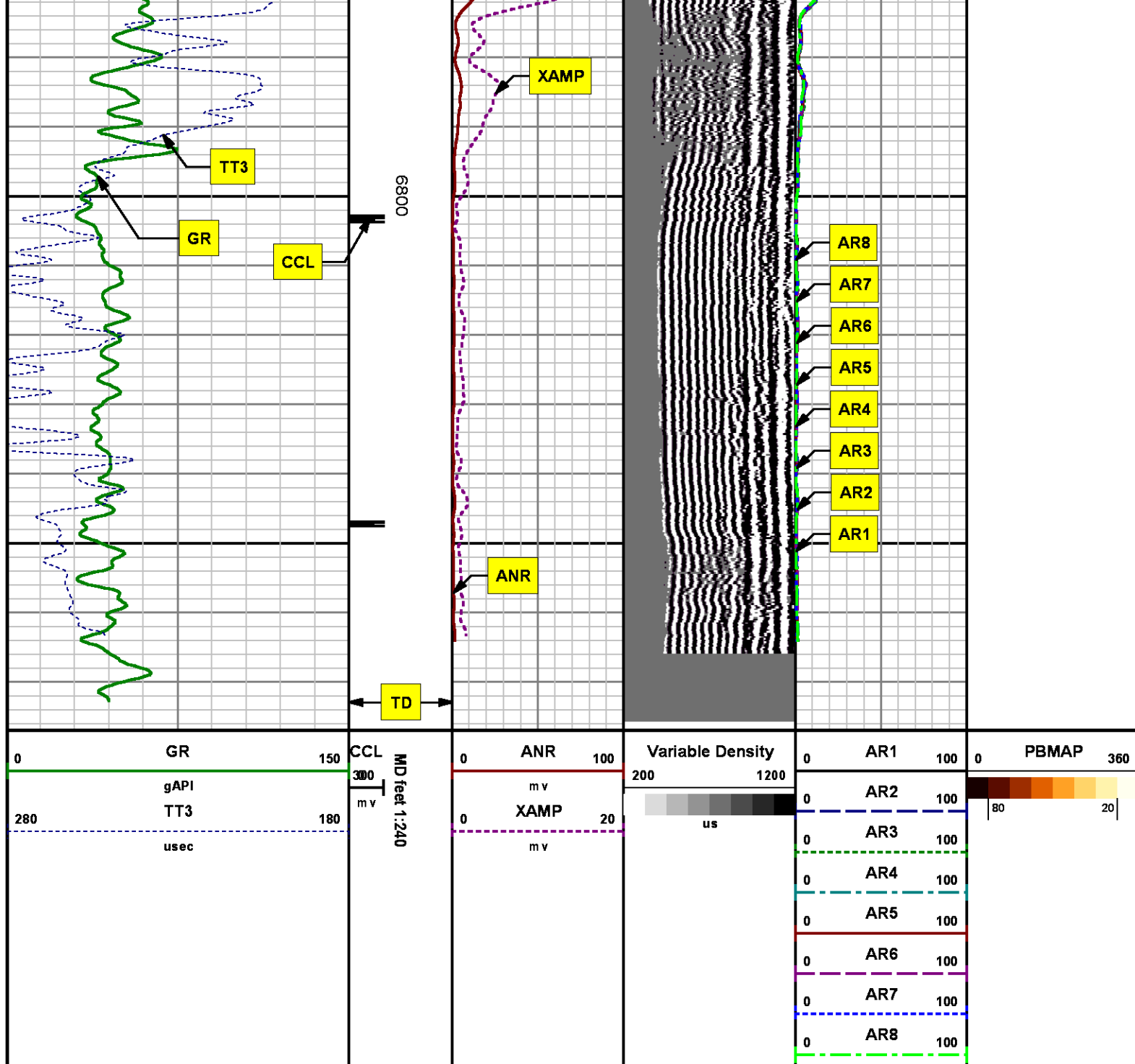


6400

6500







REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	6554.799	6879.800
RAL	Amp Gate Start Near	195.000	usec	6554.799	6879.800
RAL	Amp Gate Start Radial	195.000	usec	6554.799	6879.800
RAL	Amp Gate Width Far	25.000	usec	6554.799	6879.800
RAL	Amp Gate Width Near	25.000	usec	6554.799	6879.800
RAL	Amp Gate Width Radial	25.000	usec	6554.799	6879.800
RAL	casing od	4.500	inches	6554.799	6879.800
RAL	casing wt	11.600	lbm/ft	6554.799	6879.800
RAL	FB Start Far	291.900	usec	6554.799	6879.800
RAL	FB Start Near	180.000	usec	6554.799	6879.800
RAL	FB Start Radial	180.000	usec	6554.799	6879.800
RAL	FB Thresh Far	10.000	mv	6554.799	6879.800
RAL	FB Thresh Near	4.000	mv	6554.799	6879.800
RAL	FB Thresh Radial	4.000	mv	6554.799	6879.800
RAL	Fluid Travel Time	200.000	usec/ft	6554.799	6879.424

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

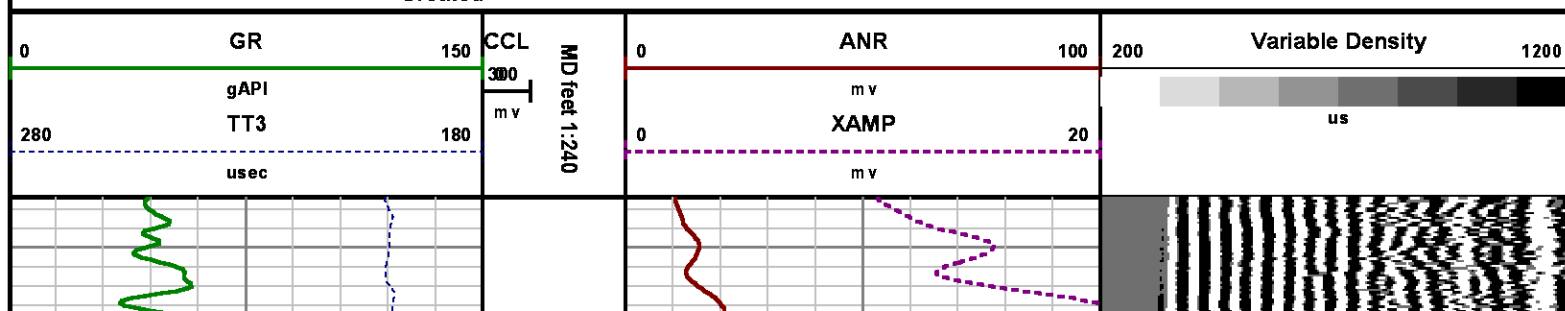
Well : HICKS PA 33-6

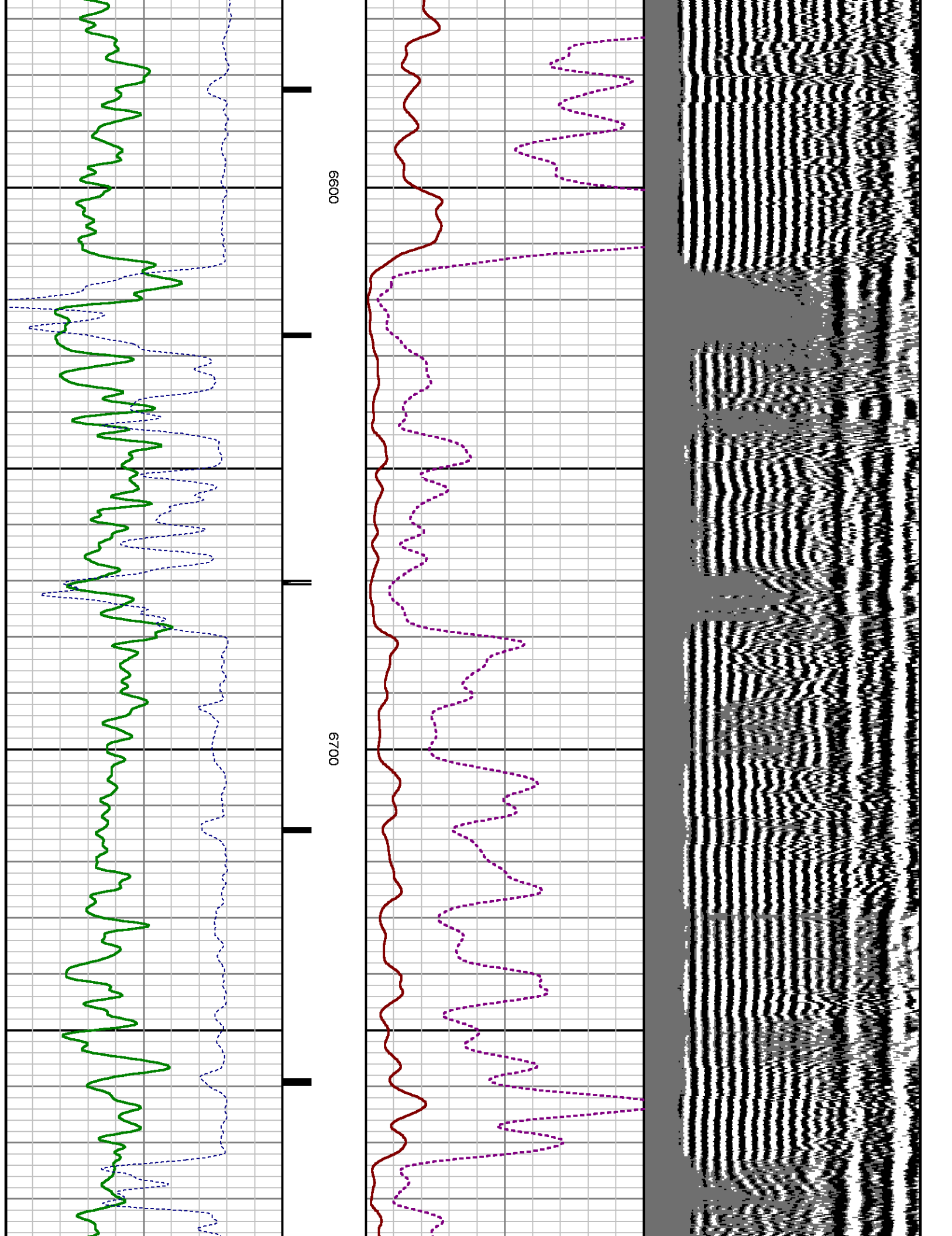
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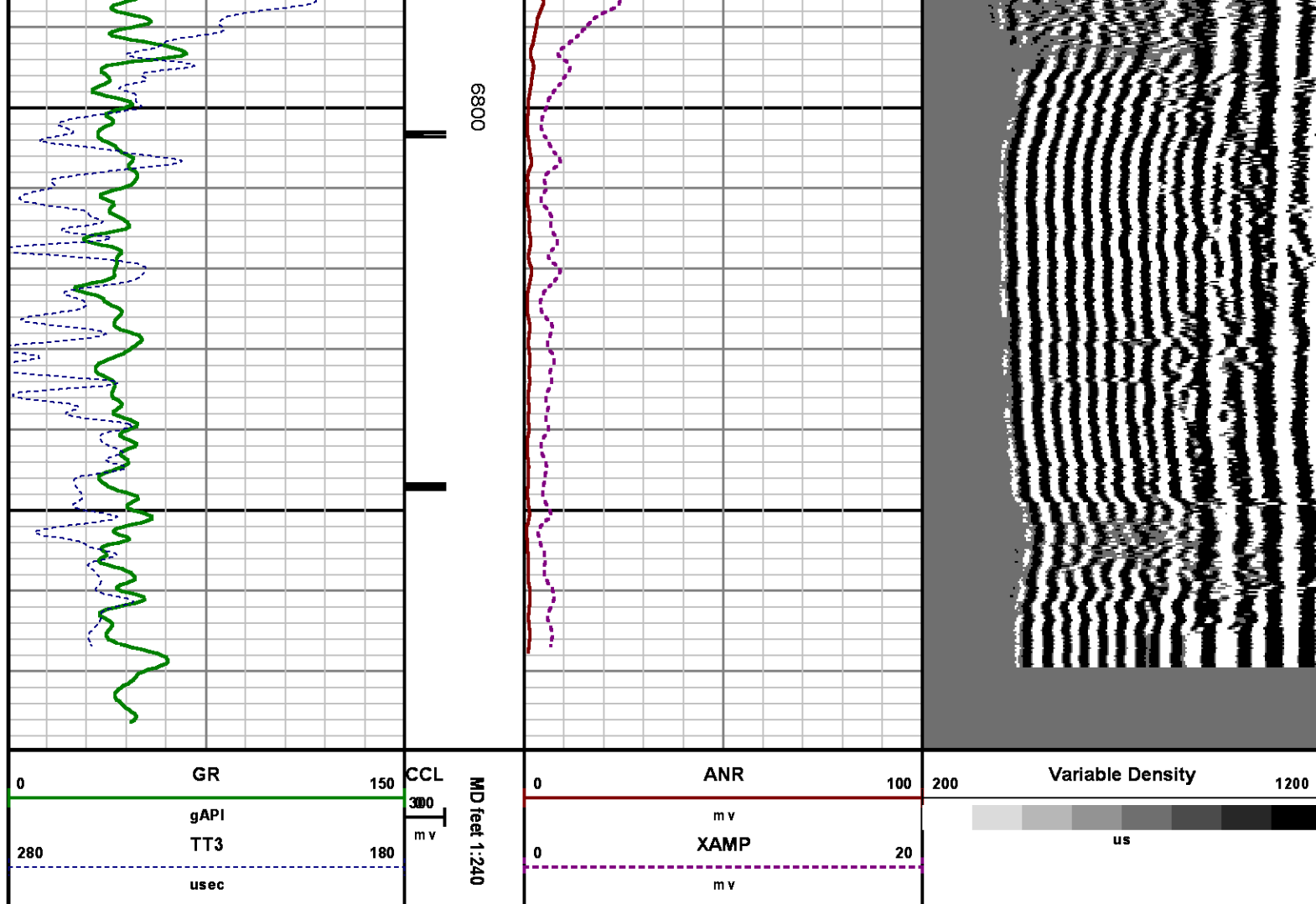
Mode : PlotMgr 5.4.504

Interval : 6554.80 - 6879.80 feet UP

Created : 8/19/2014 9:18:11 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106AU18_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Aug 18 07:52:14 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: AU18

Tool Delay [u sec] -50.00 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	219	216	30	166	25	-0.259	100.00	0.47
3 Ft. Receiver	218	216	30	166	25	-0.181	100.00	0.46
5 Ft. Receiver	326	325	30	249	25	0.277	150.00	0.50

Radial #1	218	216	30	166	25	-0.205	100.00	0.46
Radial #2	217	216	30	166	25	-0.260	100.00	0.46
Radial #3	217	216	30	166	25	-0.074	100.00	0.46
Radial #4	217	216	30	166	25	-0.420	100.00	0.46
Radial #5	218	216	30	166	25	-0.187	100.00	0.47
Radial #6	218	216	30	166	25	0.132	100.00	0.47
Radial #7	218	216	30	166	25	-0.665	100.00	0.47
Radial #8	219	216	30	166	25	-0.458	100.00	0.47

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106AU18_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Aug 18 07:54:09 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: AU18

Tool Delay [usec] -50.00 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	-0.023	0.000	0.99	100.000
3 Ft. Receiver	195	25	-1.157			
5 Ft. Receiver	305	25	-1.179			
Radial #1	195	25	-2.718			
Radial #2	195	25	-1.616			
Radial #3	195	25	-1.129			
Radial #4	195	25	-1.149			
Radial #5	195	25	-1.012			
Radial #6	195	25	-1.103			
Radial #7	195	25	-0.616			
Radial #8	195	25	-0.820			

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

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



	18.89'
XMIT	12.71'
NEAR RCVR	9.63'
FAR RCVR	7.71'
CCL	5.79'
GR	1.67'
TEMP	0.17'
	0.00'

Total Length: 18.89'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas

Company

WPX ENERGY

Well

HICKS PA 33-6

Field

PARACHUTE

County

GARFIELD

State

COLORADO

Location

Elevations

File No:

CH089575

API No:

05045224130000

CASE

SHL: 815' FSL & 2245' FWL
BHL: 2131' FSL & 1684' FEL (NWSE)

SEC 6 TWP 7S RGE 95W

KB 5160 ft
DF
GL 5135 ft

6 7S 95W
PA 24-6 PAD
AZTEC 1000