



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	WPX ENERGY
CH087685	Well	C&C ENERGY GM 411-13
API No:	Field	GRAND VALLEY
05045222630000	County	GARFIELD
	State	COLORADO

13 75 96W	Location	SHL: 280' FSL & 994' FWL (SEC 12) BHT: 898' FNL & 823' FWL (SWMW SEC 13)
GM 24-12 PAD		
H&P 318	SEC 13	TWP 7S RGE 96W

Permanent Datum	GL	Elevation	5141 ft	Other Services
Log Measured From	KB	24 ft	Above P. D.	KB 5165 ft DF
Drill Measured From	KELLY BUSHING			GL 5141 ft

Date	20/JUL/14
Run	ONE
Service Order	US087685J
Depth Driller	6123 ft
Depth Logger	6042 ft
Bottom Logged Interval	6032 ft
Top Logged Interval	24 ft
Time Started	1115
Time Finished	1515
Operator Rig Time	4 HRS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	60 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	204 degF
Reference Log	NONE
Reference Log Date	NA
Equipment No.	4271
Recorded By	FLYND RENEAU
Witnessed By	JEFF BRADY

- 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	24 ft	1277 ft
8.75 in	1277 ft	6123 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			24 ft	1277 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	6123 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 feet.

Logged with zero PSI at wellhead.

BHT = 204°F

SJ = 2630'-2653'

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	2459XA	10124121	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	19.562	6043.000
RAL	Amp Gate Start Near	195.000	usec	19.562	6043.000
RAL	Amp Gate Start Radial	195.000	usec	19.562	6043.000
RAL	Amp Gate Width Far	25.000	usec	19.562	6043.000
RAL	Amp Gate Width Near	25.000	usec	19.562	6043.000
RAL	Amp Gate Width Radial	25.000	usec	19.562	6043.000
RAL	casing od	4.500	inches	19.562	6043.000
RAL	casing wt	11.600	lbm/ft	19.562	6043.000
RAL	FB Start Far	291.900	usec	19.562	6043.000
RAL	FB Start Near	180.000	usec	19.562	6043.000
RAL	FB Start Radial	180.000	usec	19.562	6043.000
RAL	FB Thresh Far	10.000	mv	19.562	6043.000
RAL	FB Thresh Near	4.000	mv	19.562	6043.000
RAL	FB Thresh Radial	4.000	mv	19.562	6043.000
RAL	Fluid Travel Time	200.000	usec/ft	19.562	6043.000

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES											
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4	AR5	AR6	AR7	AR8	CHV	FPR2

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

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

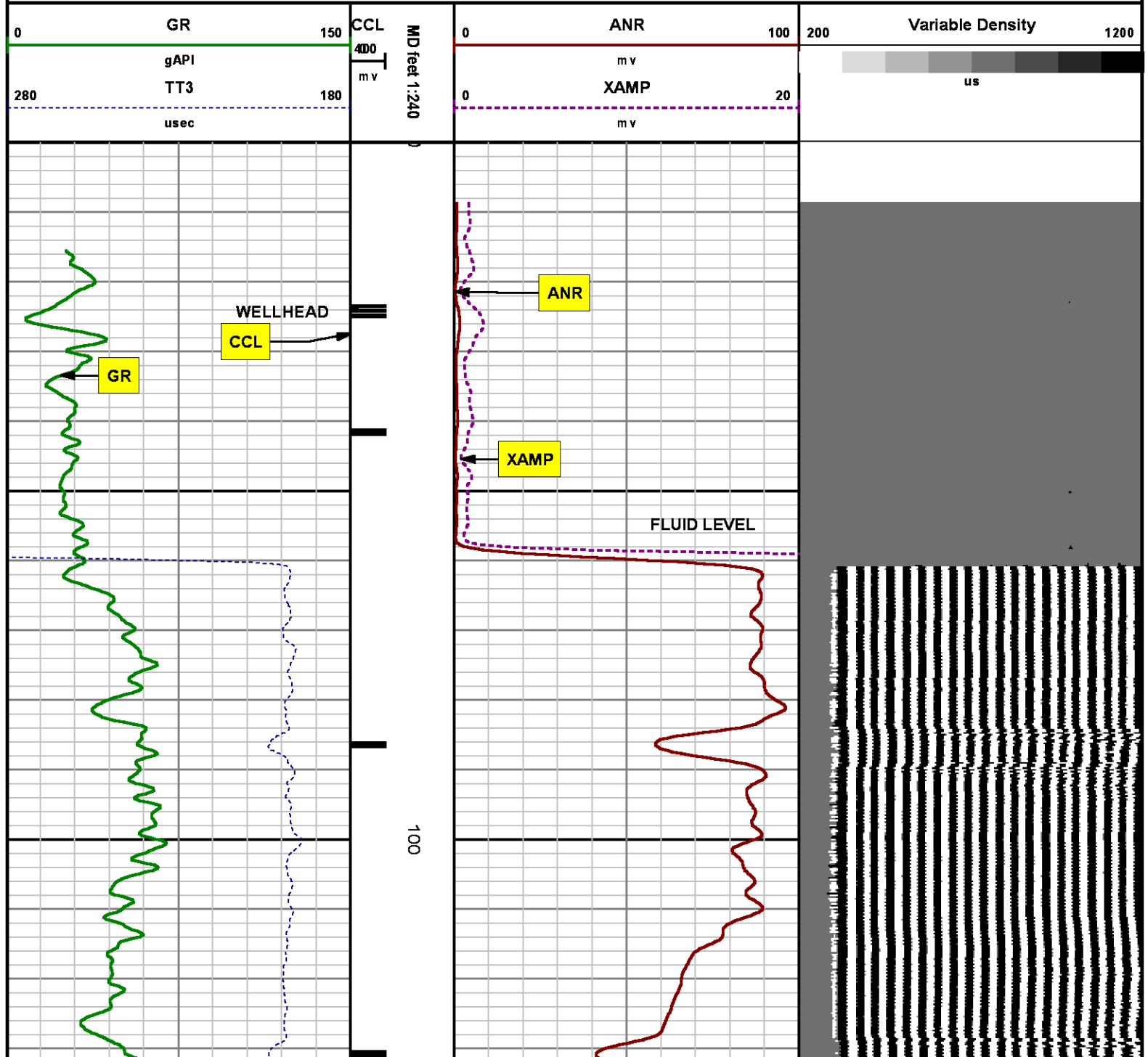
Well : C&C ENERGY GM 411-13

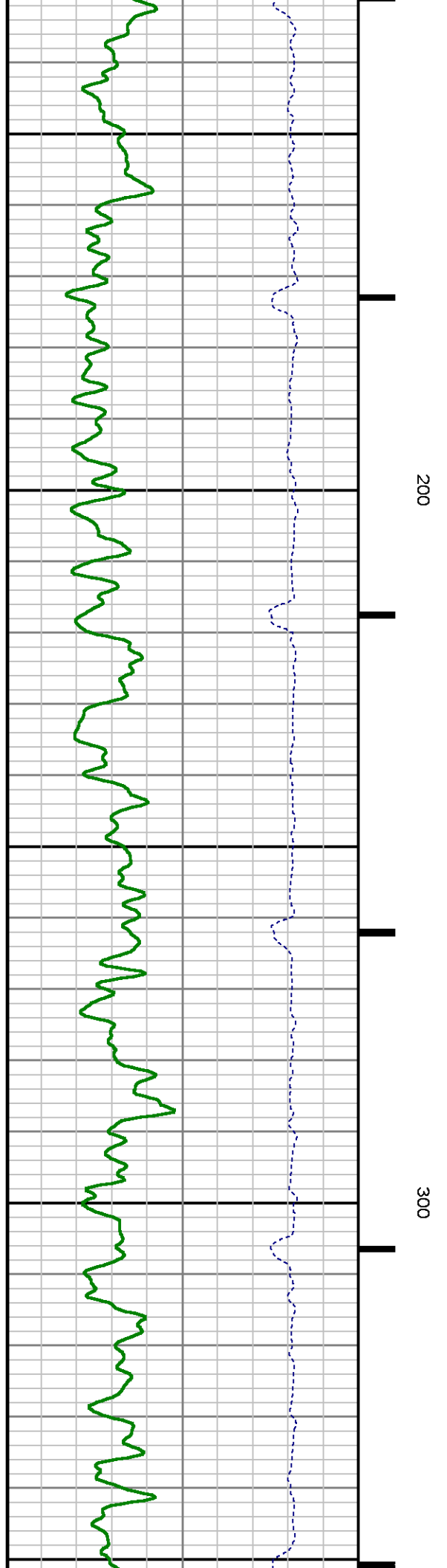
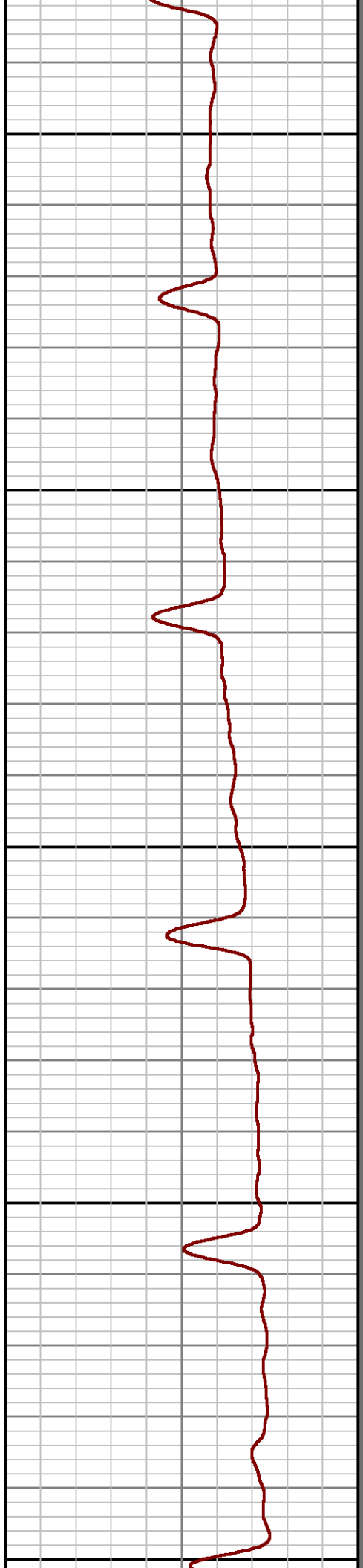
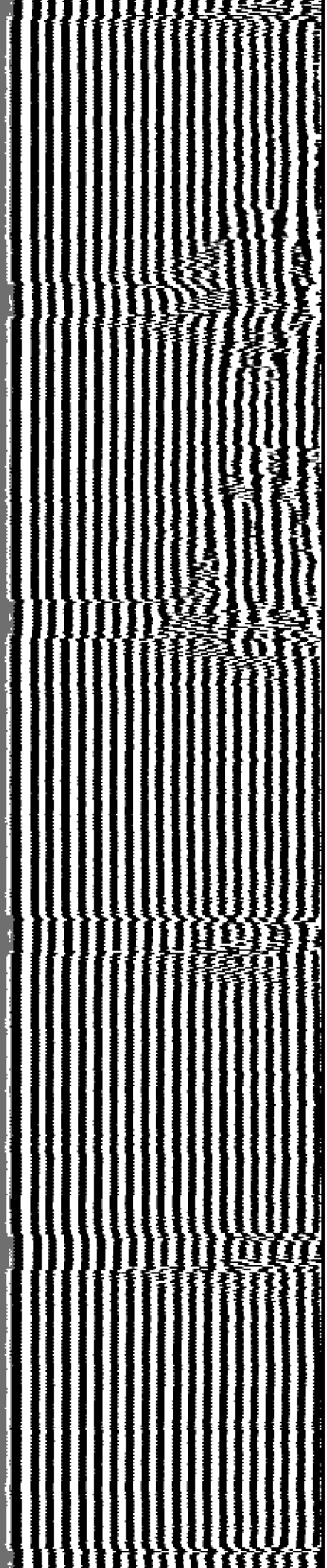
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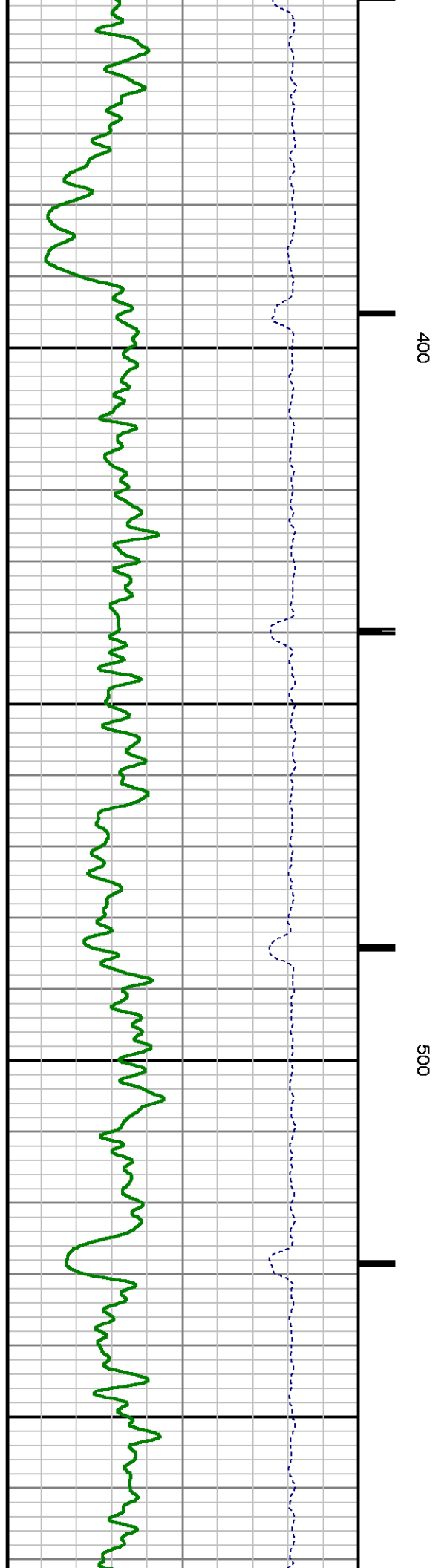
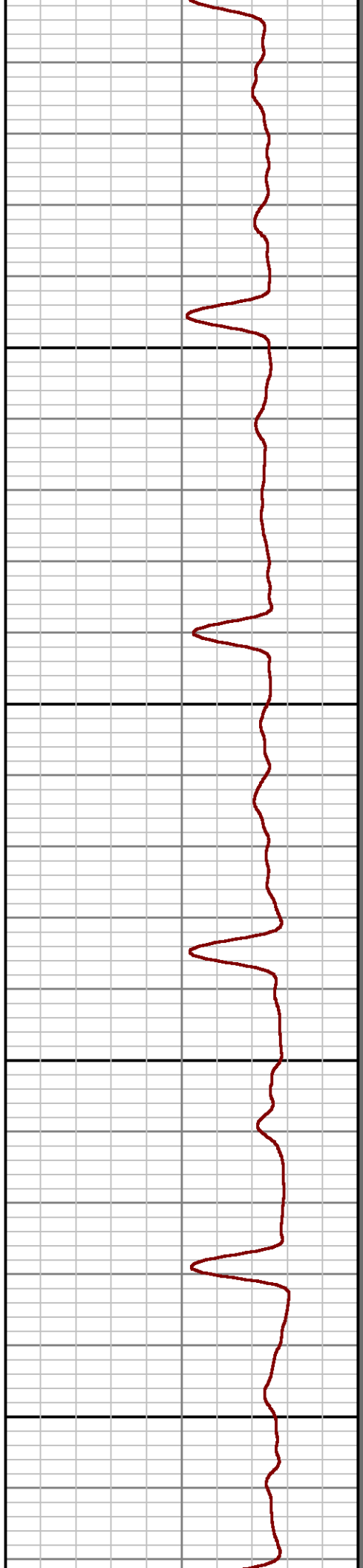
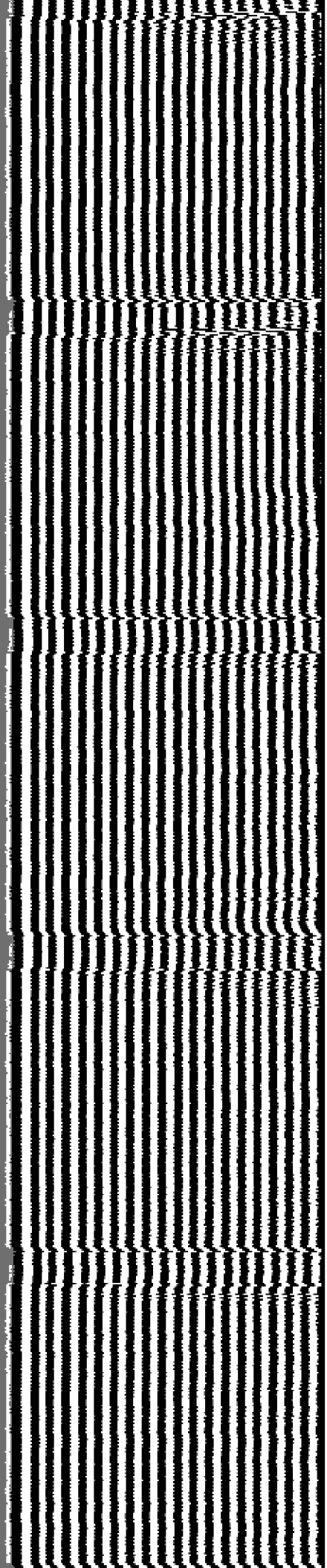
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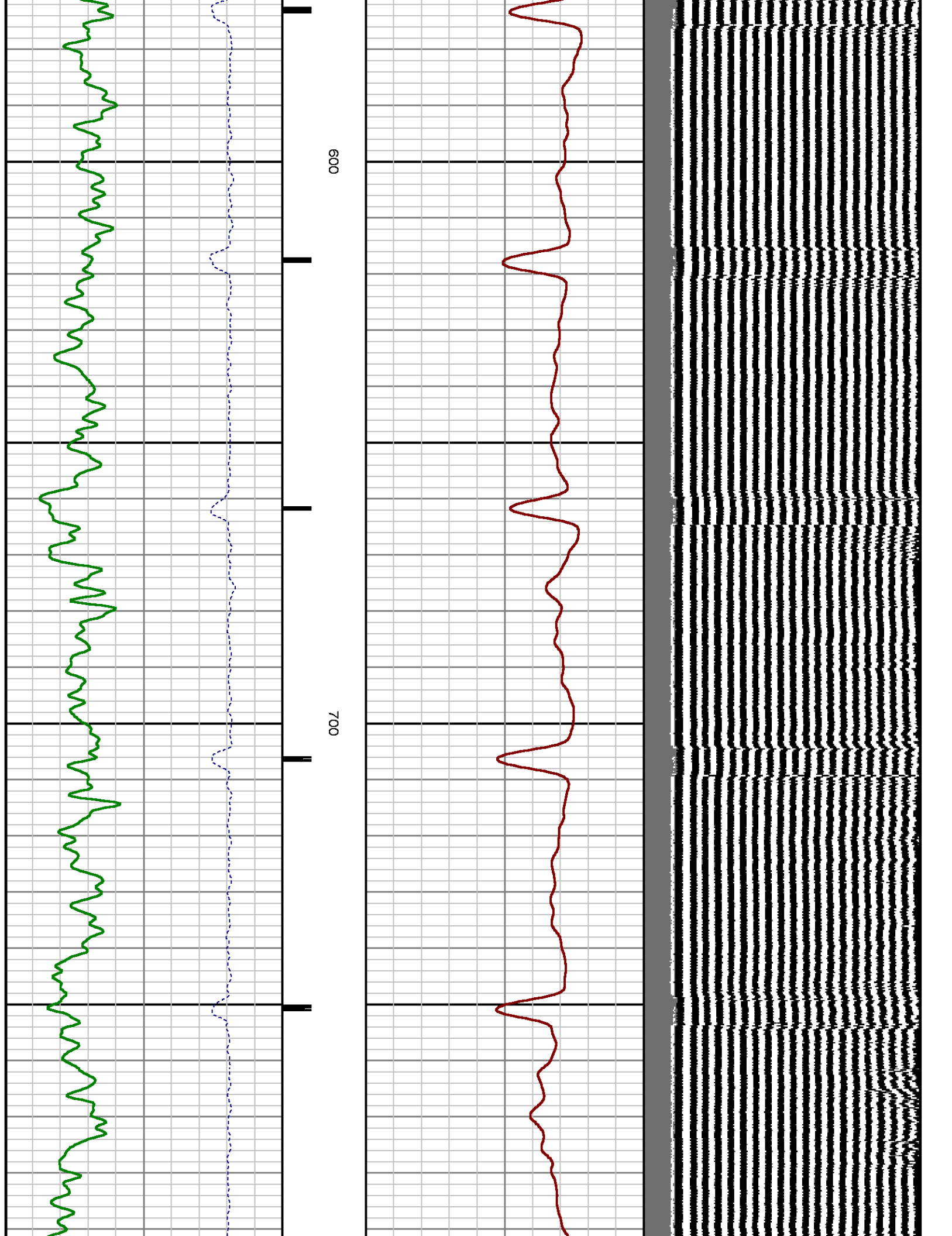
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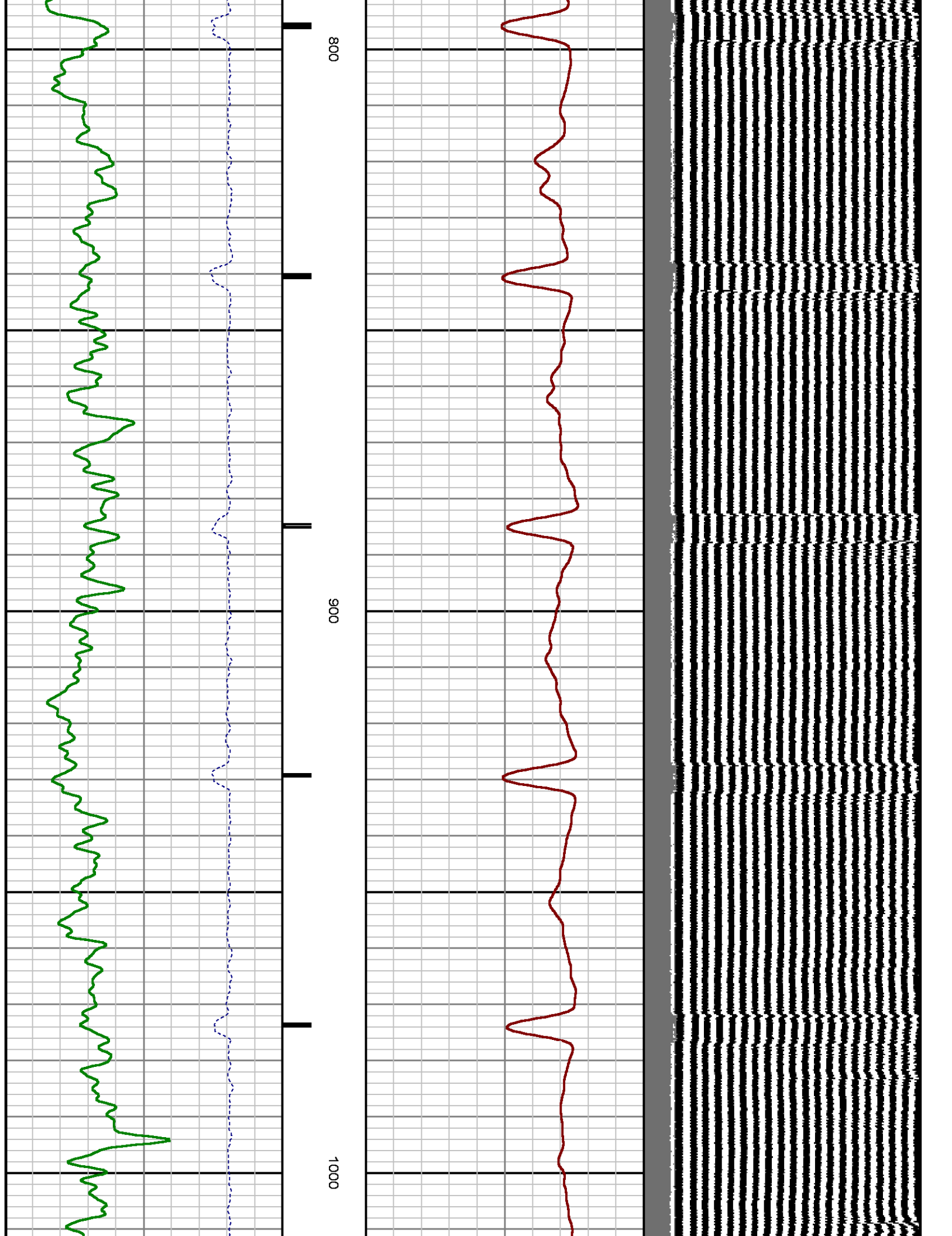
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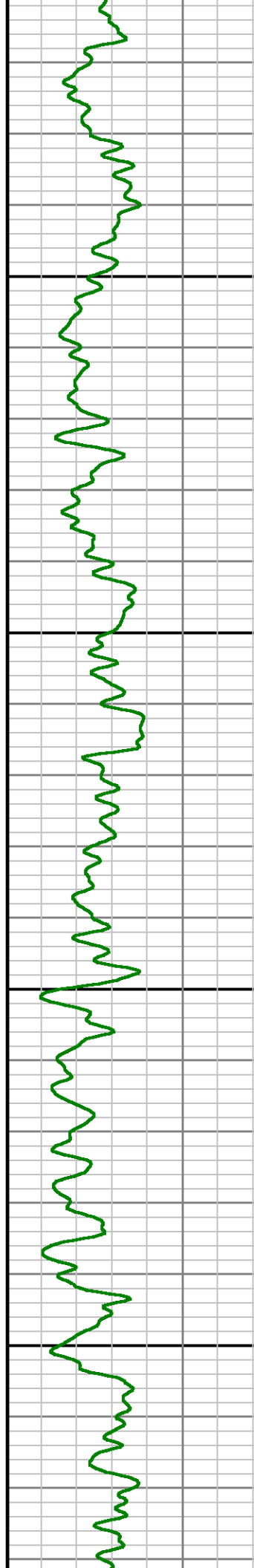
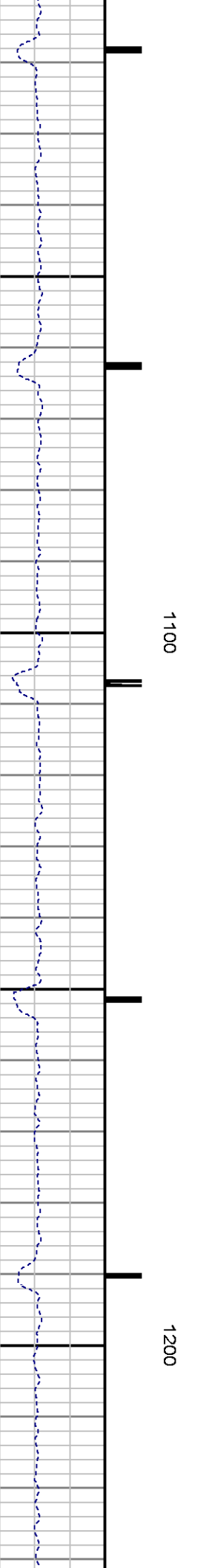
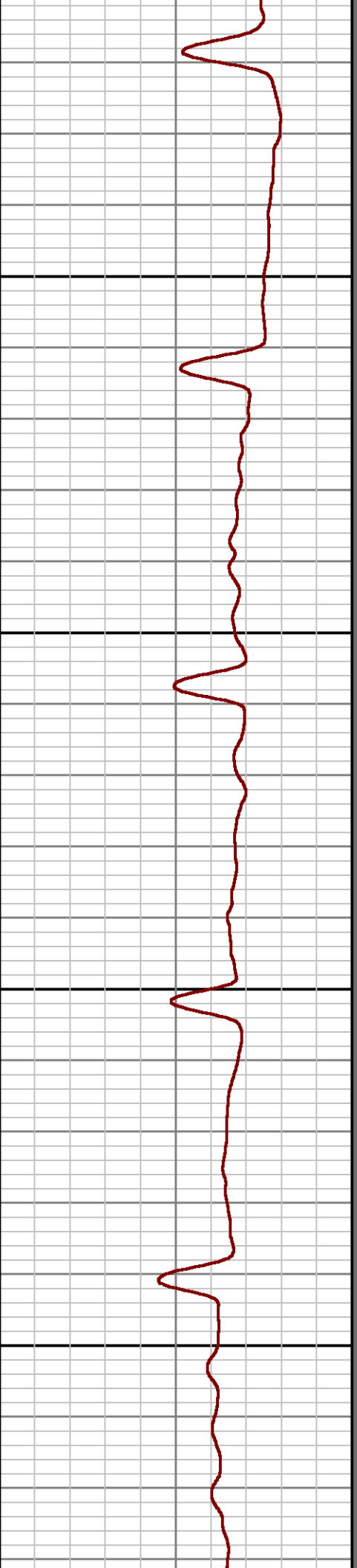
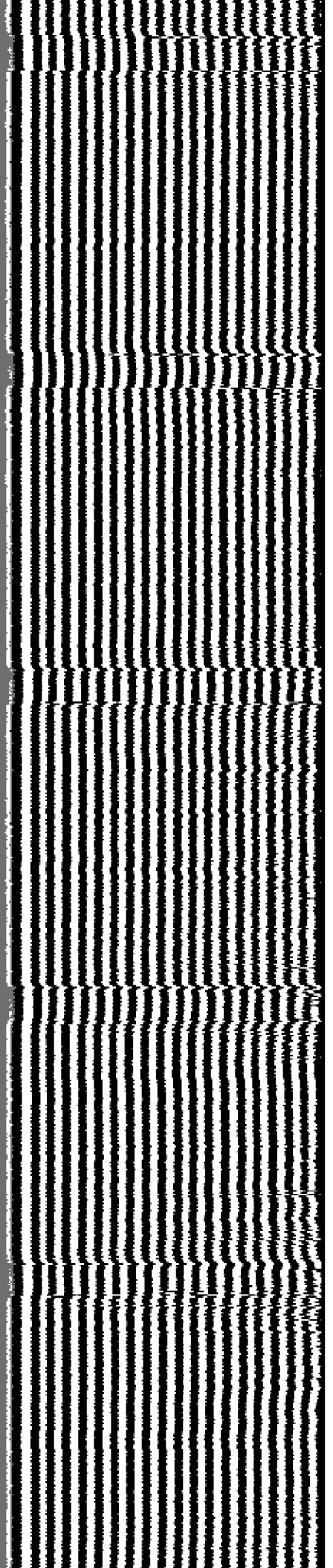






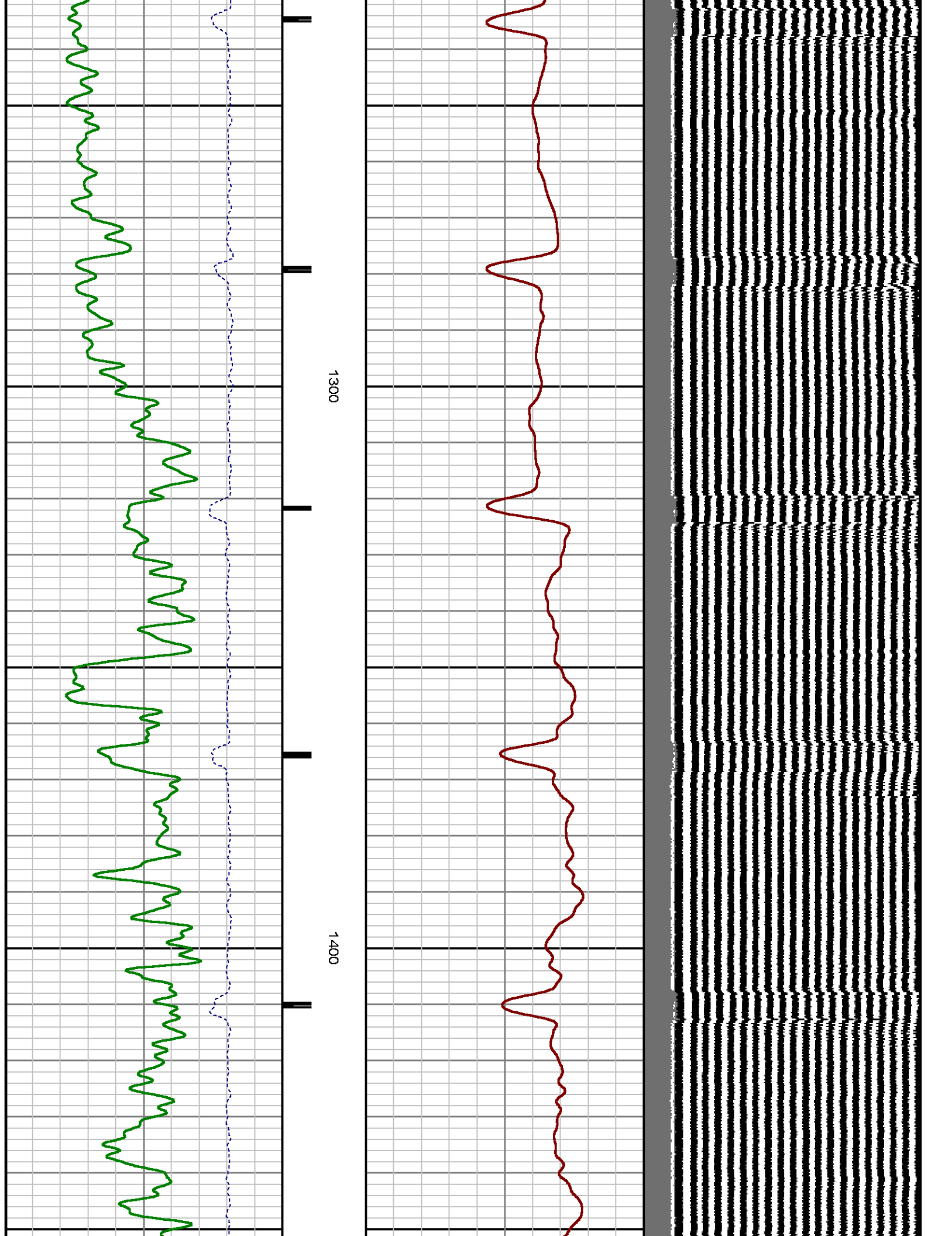


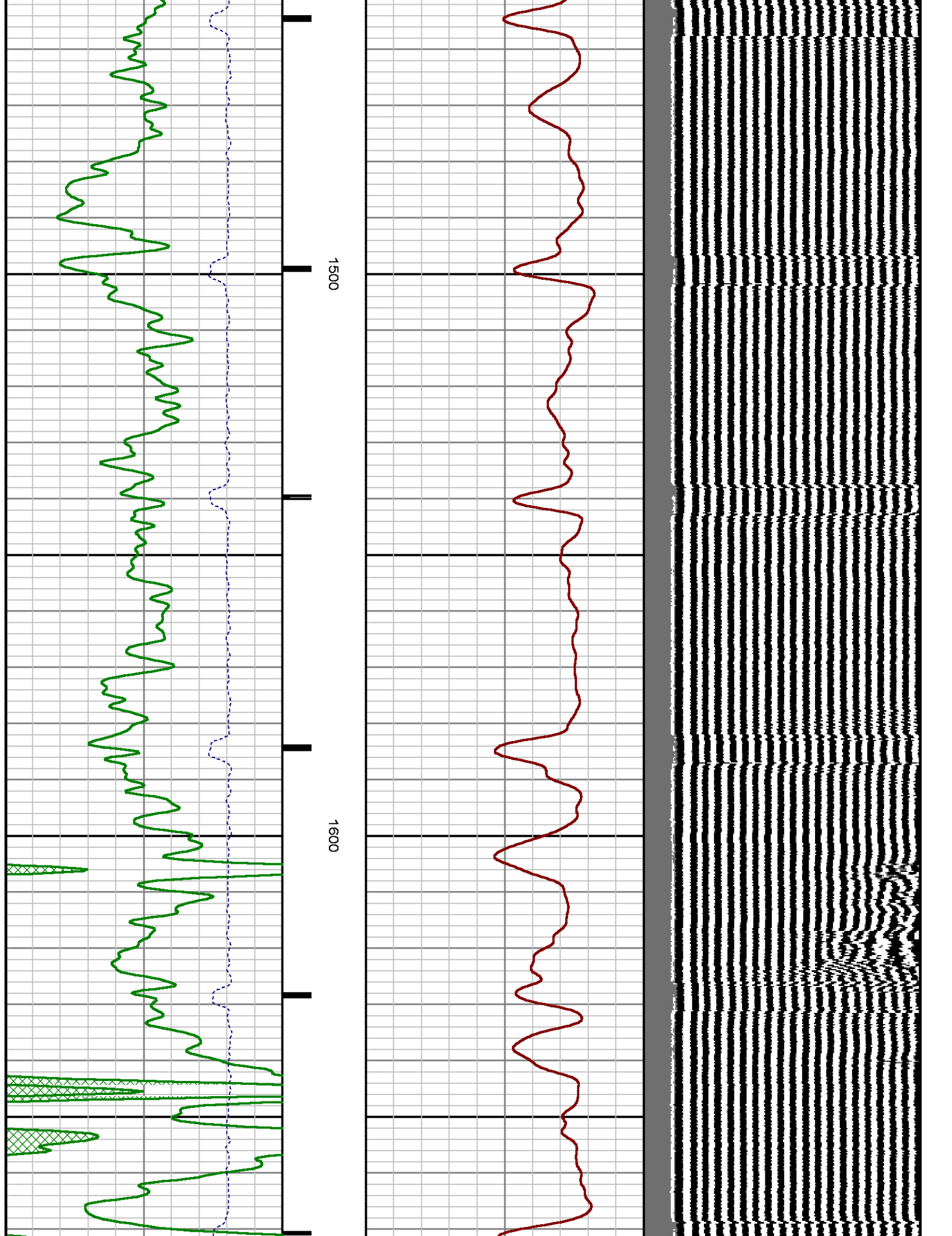


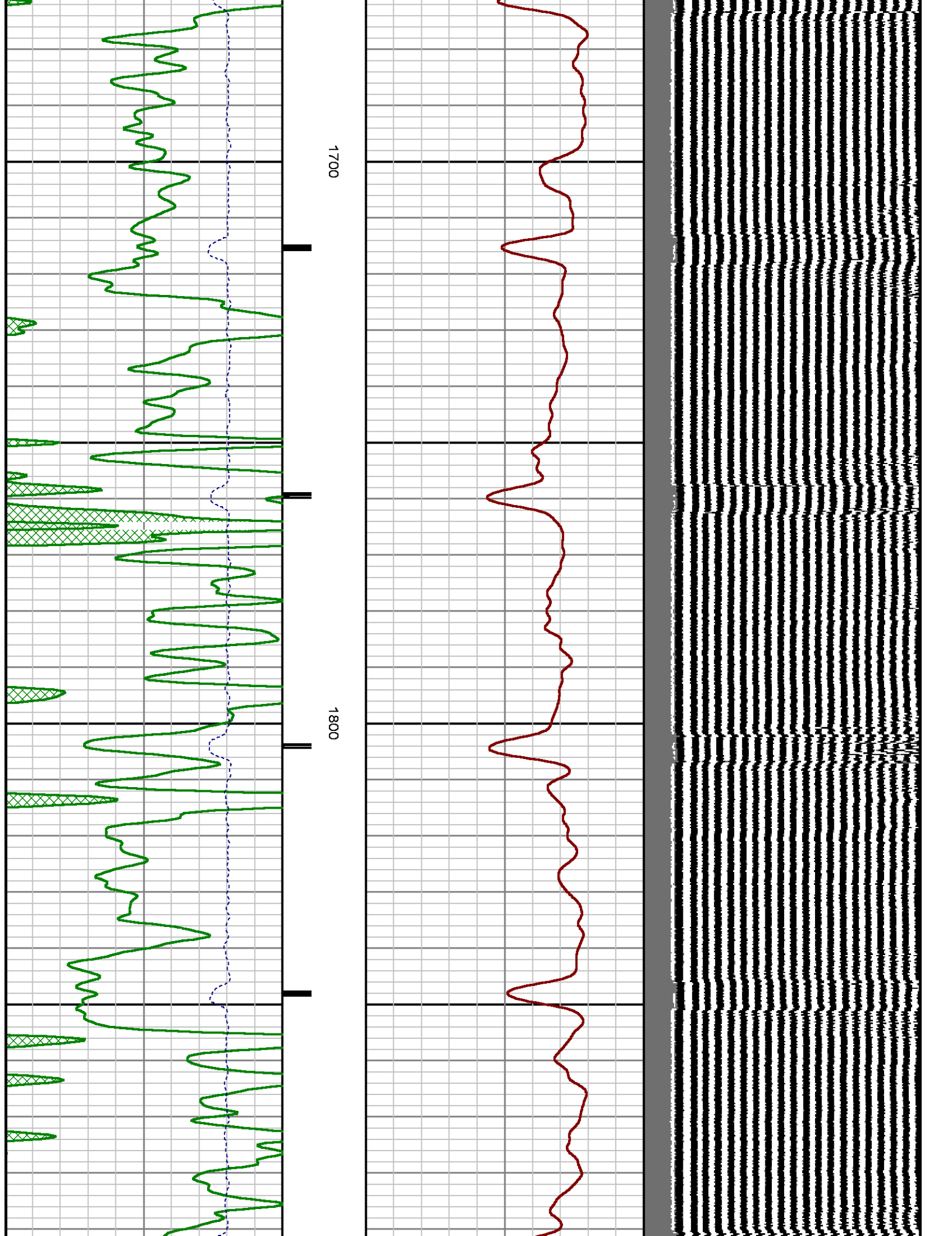


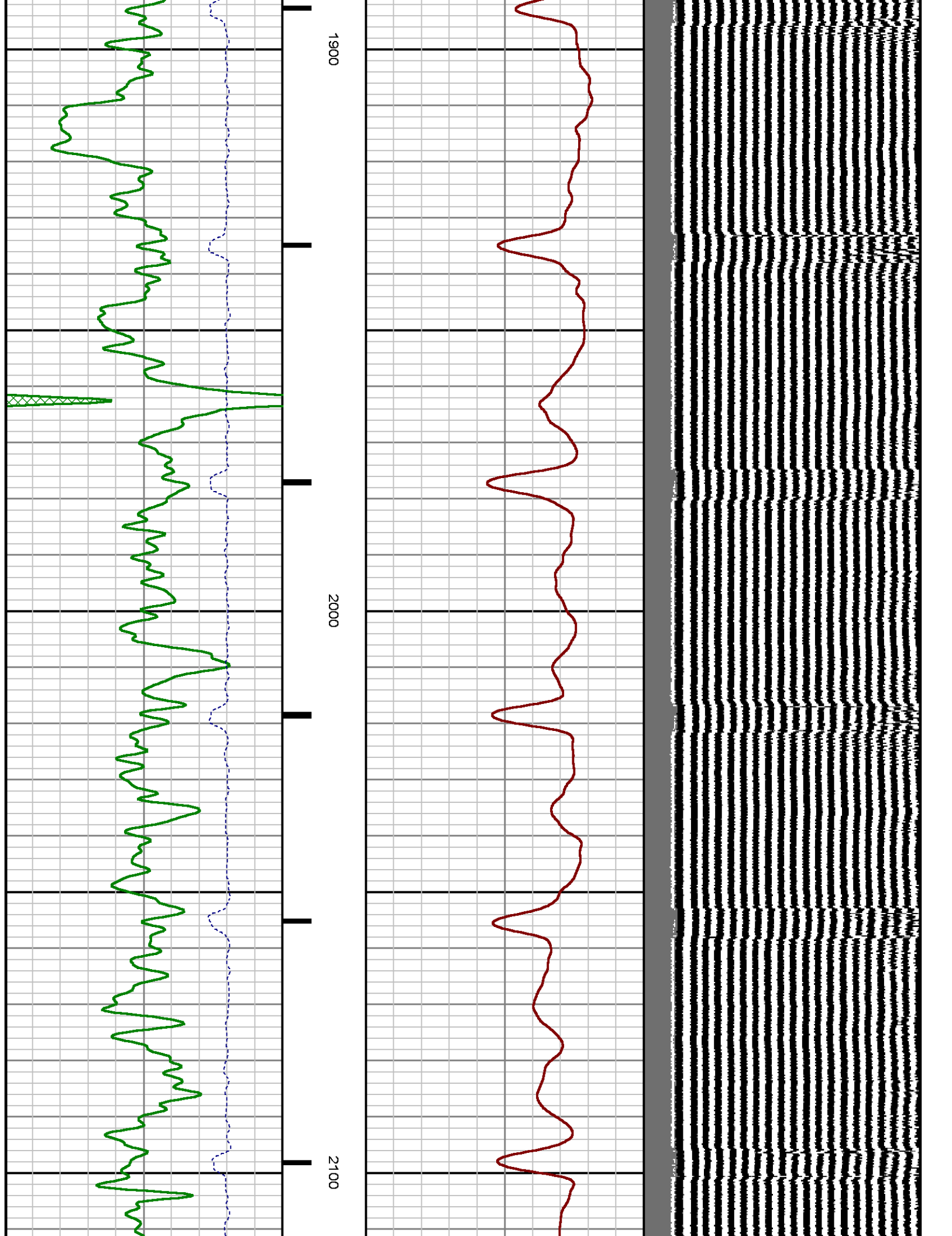
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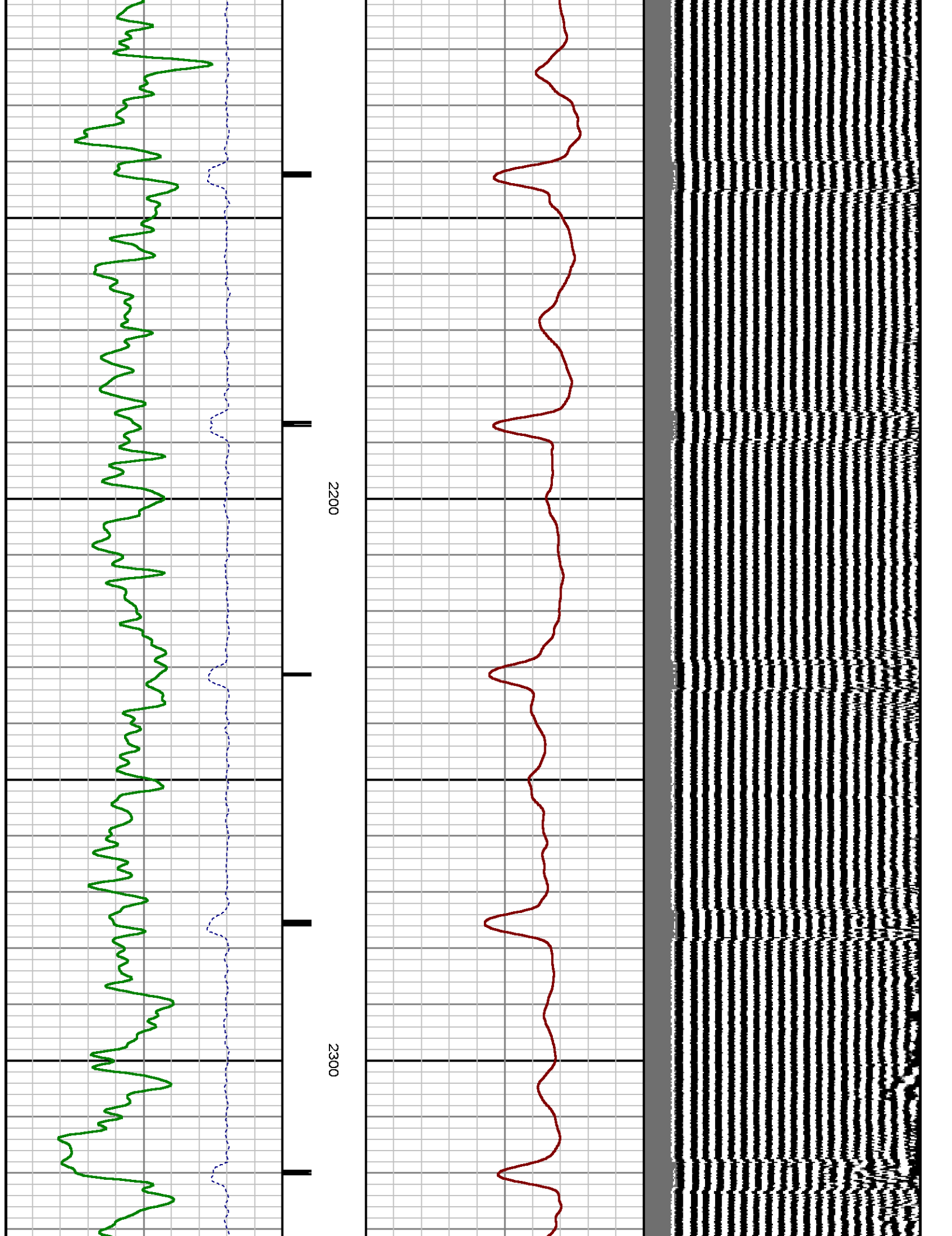
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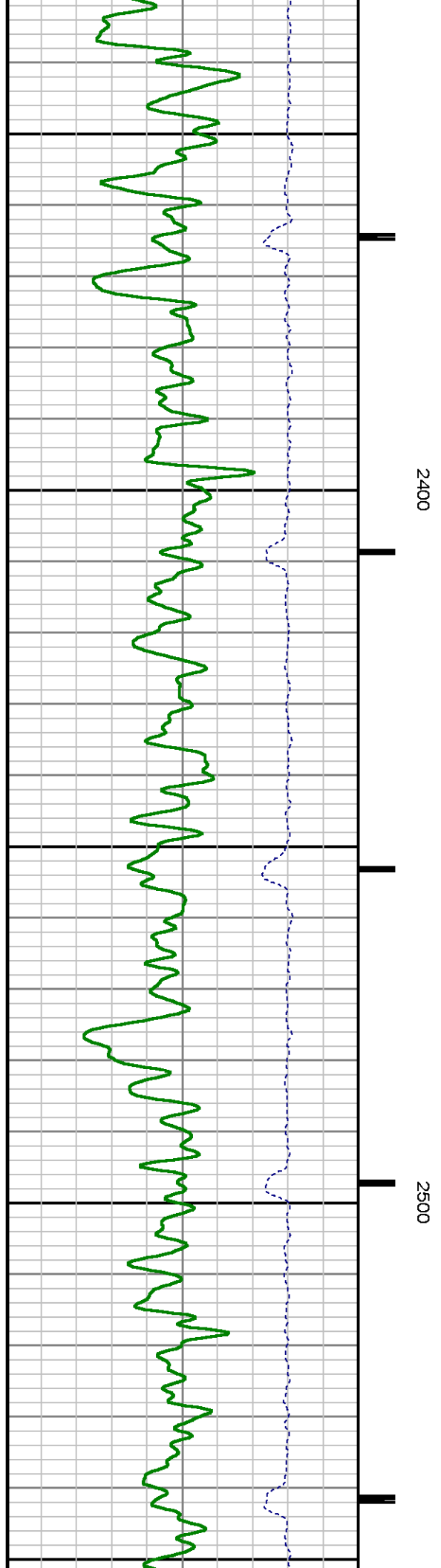
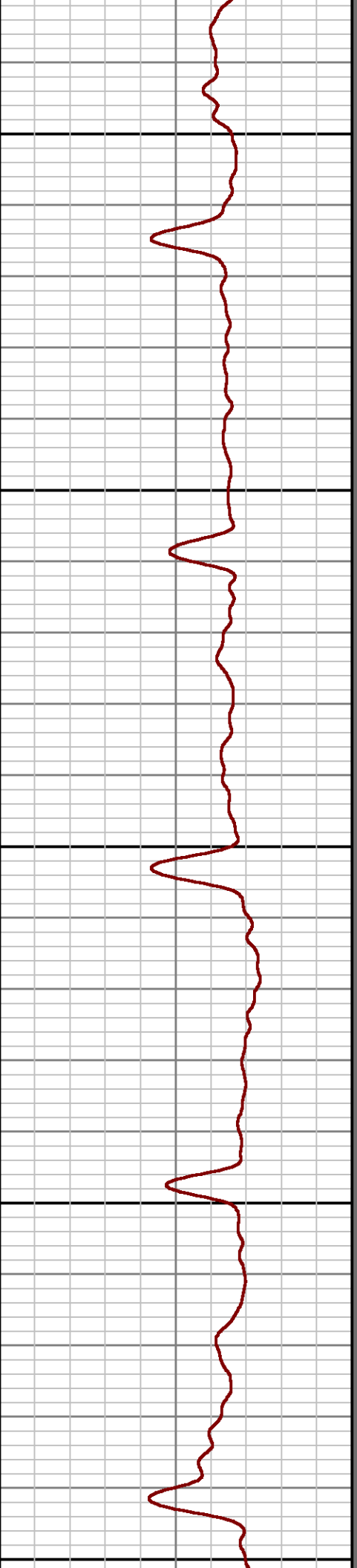
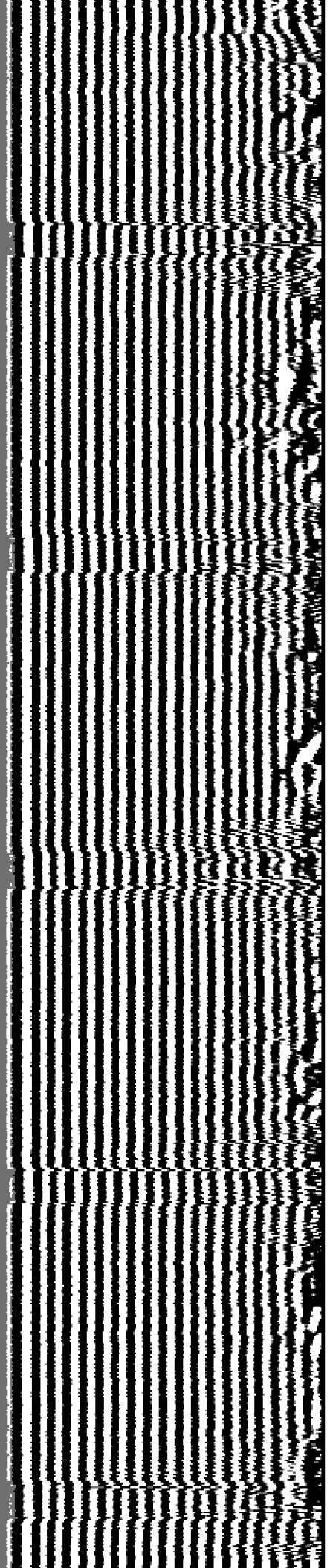


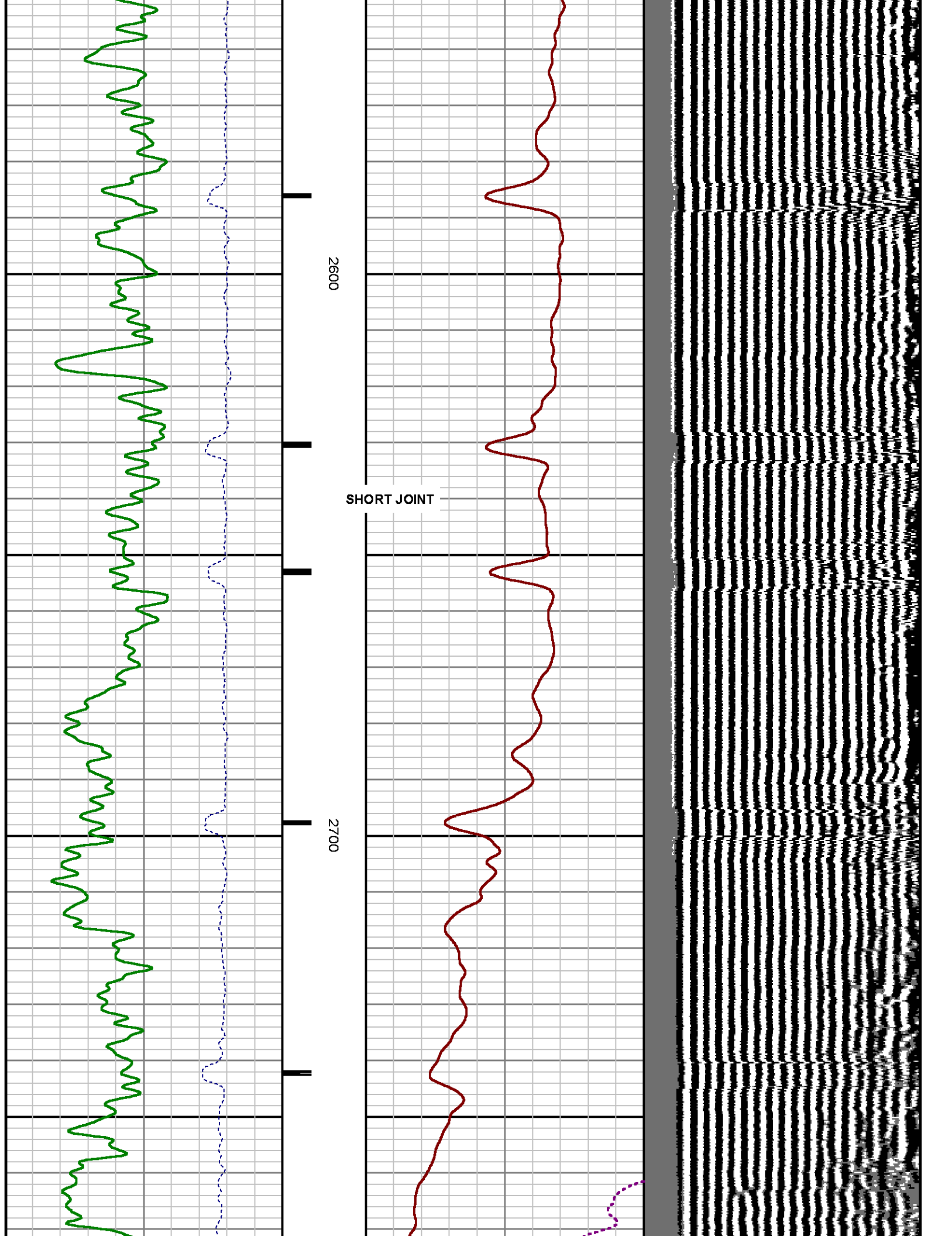


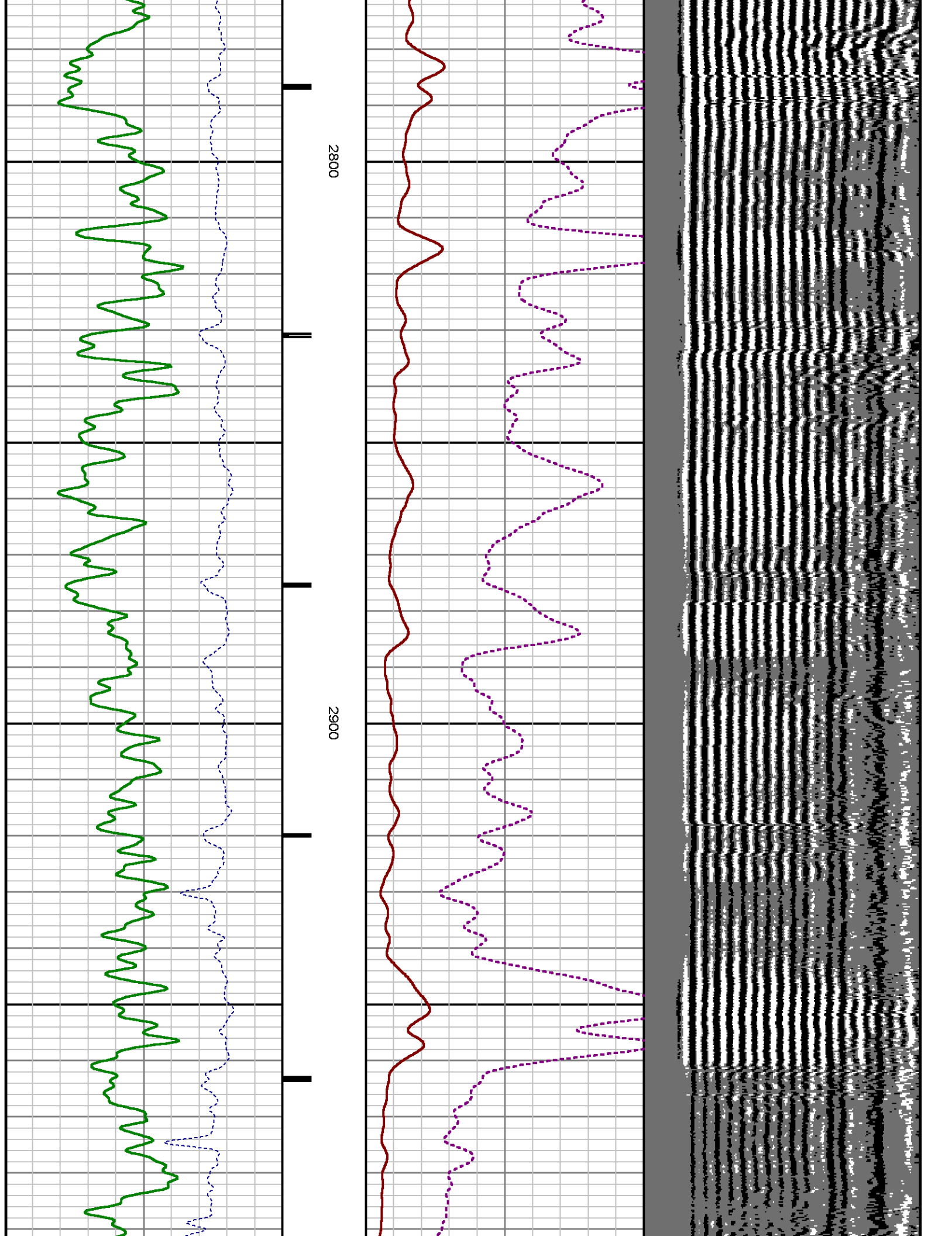


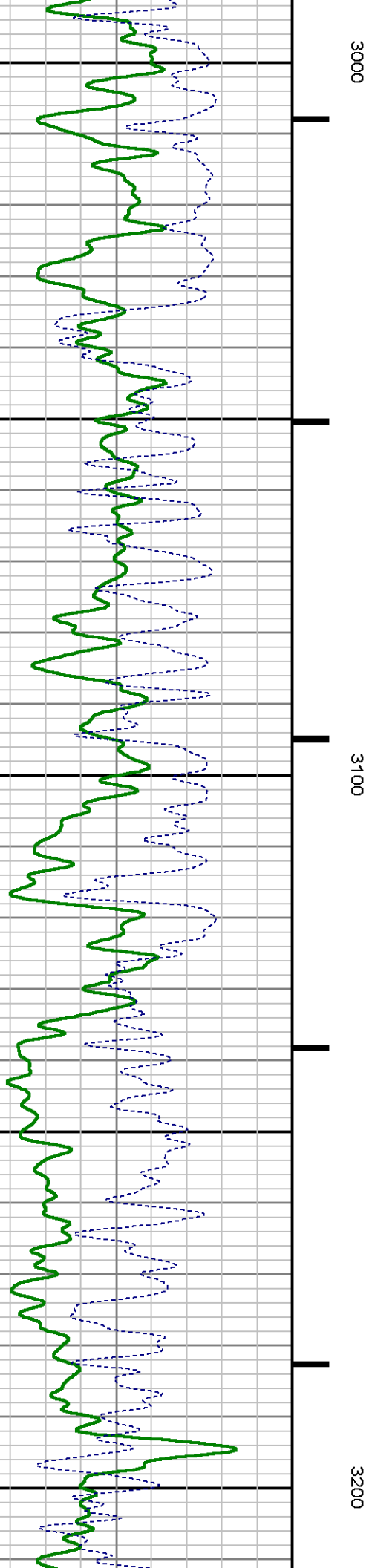
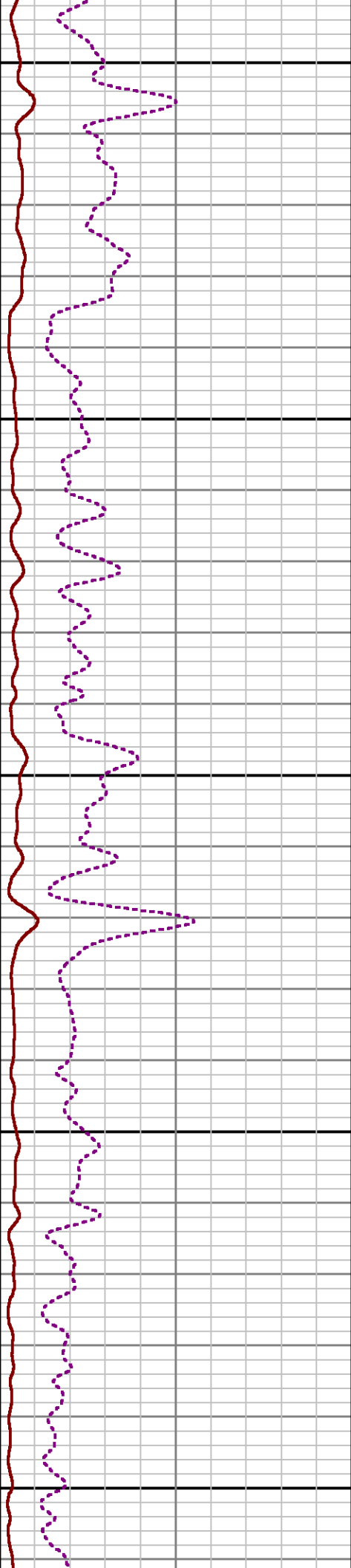
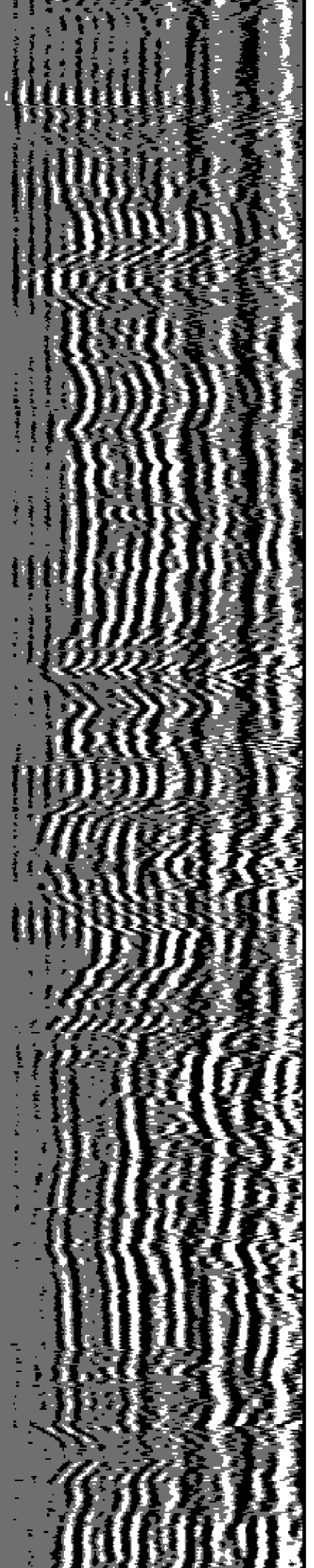


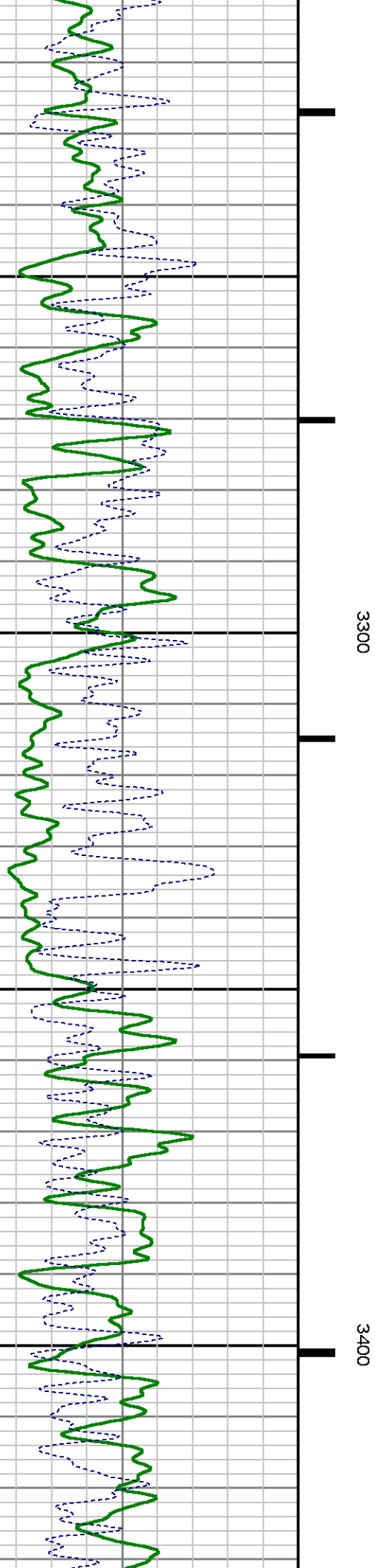
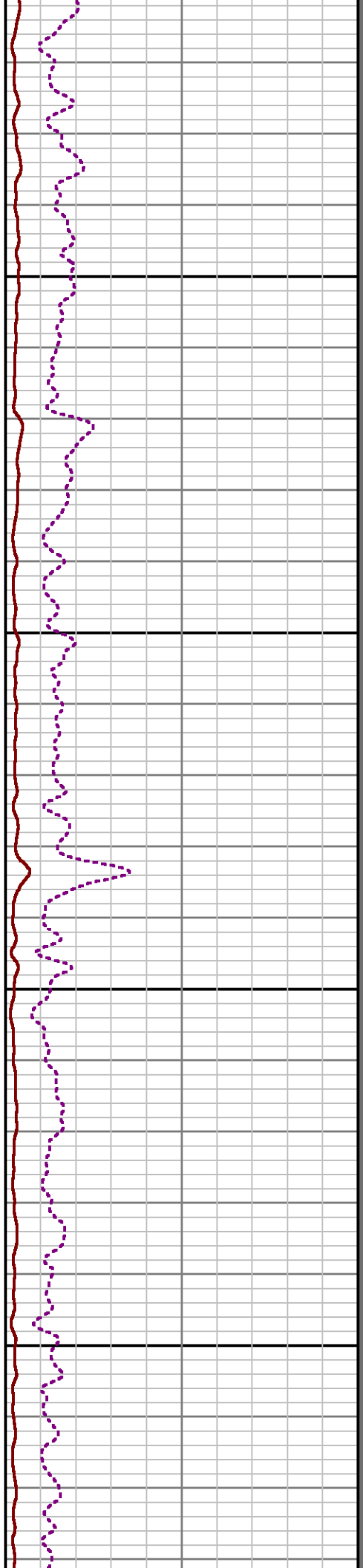
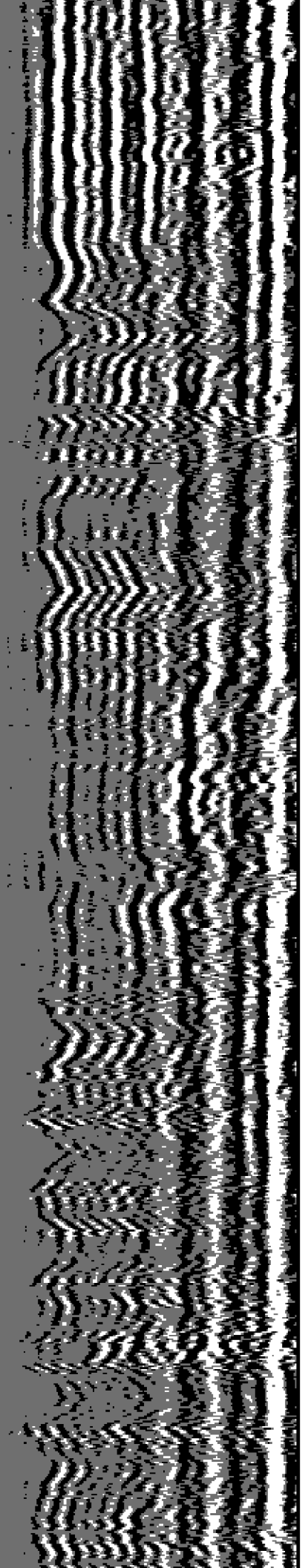


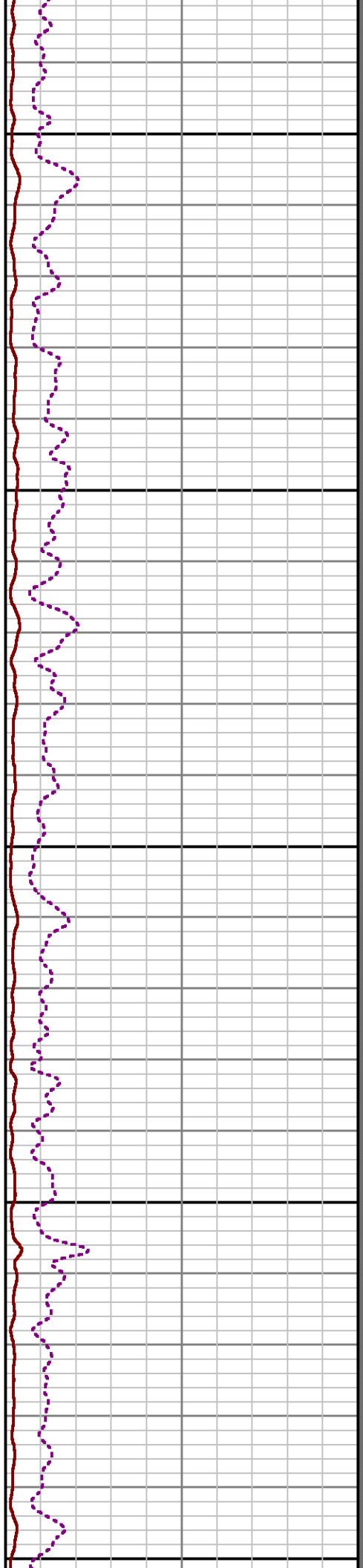
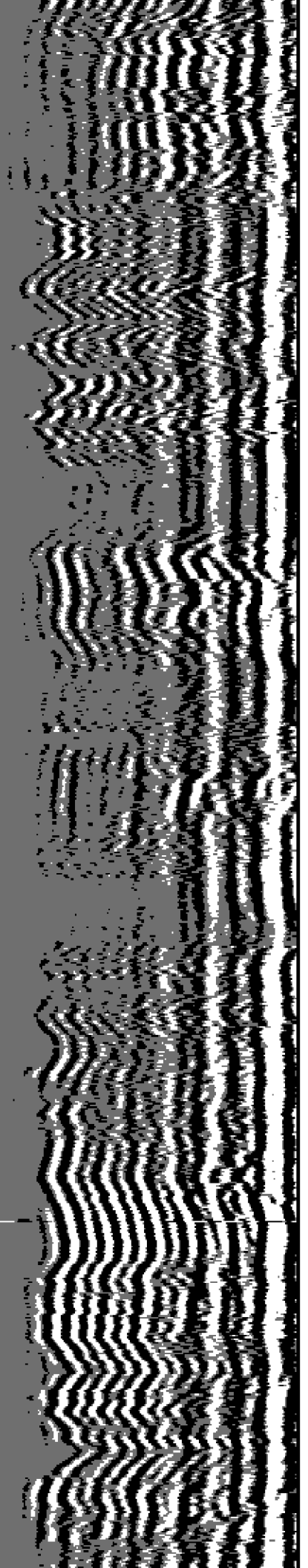






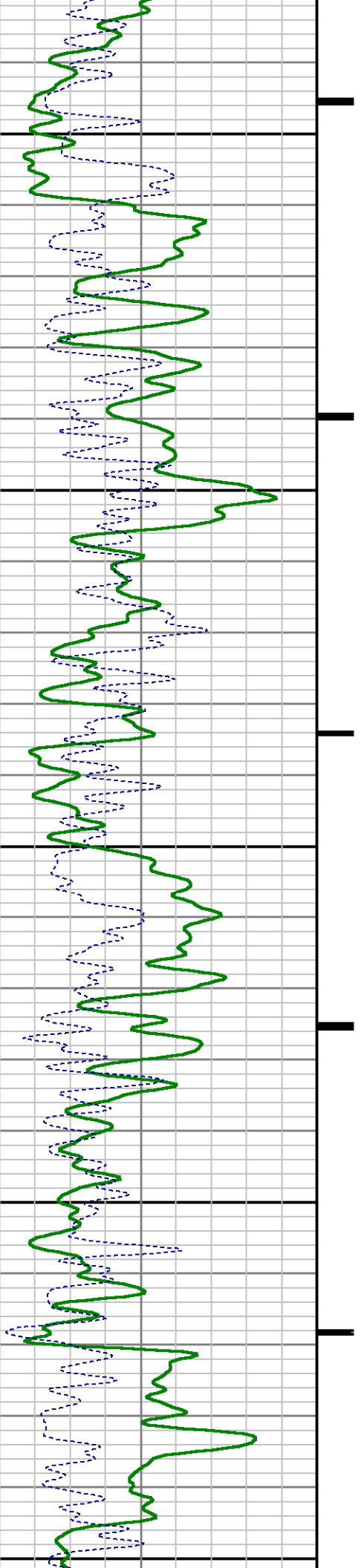


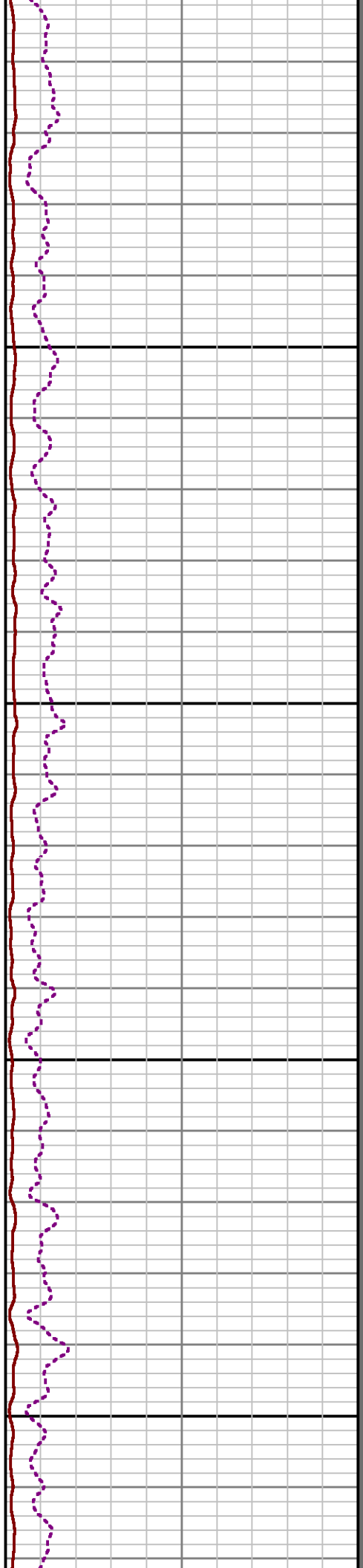
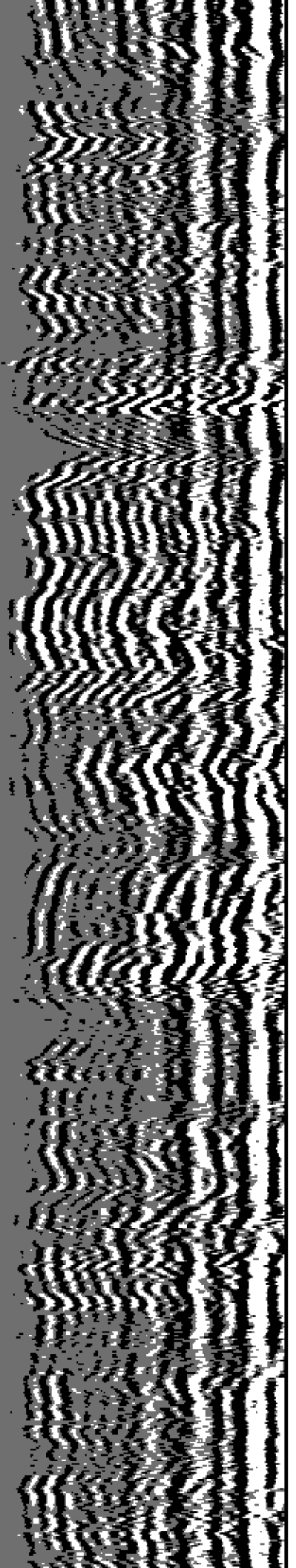




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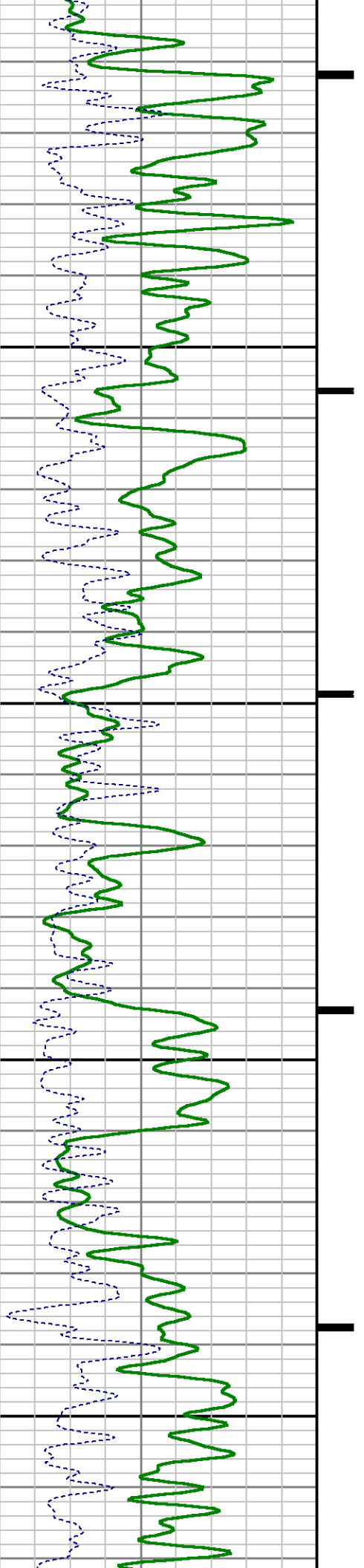
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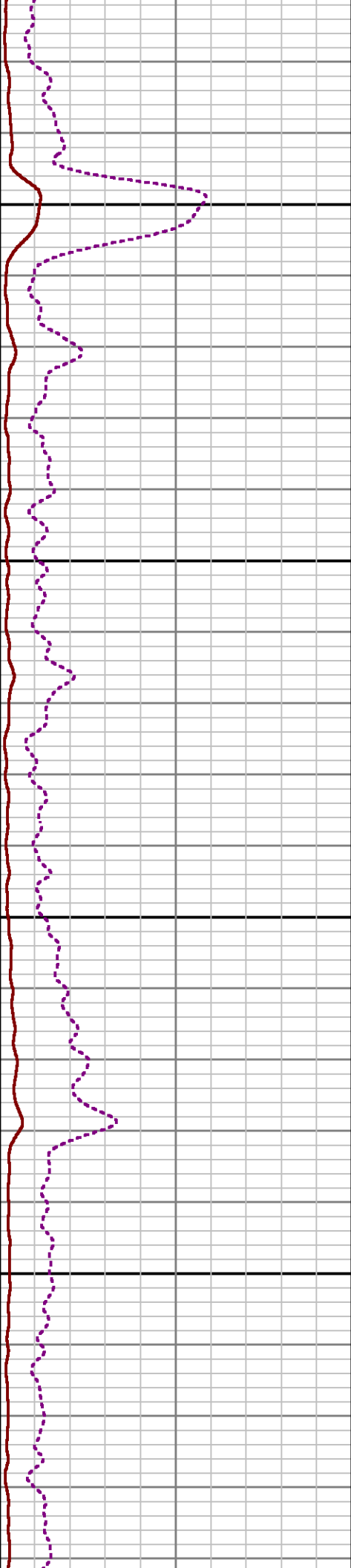
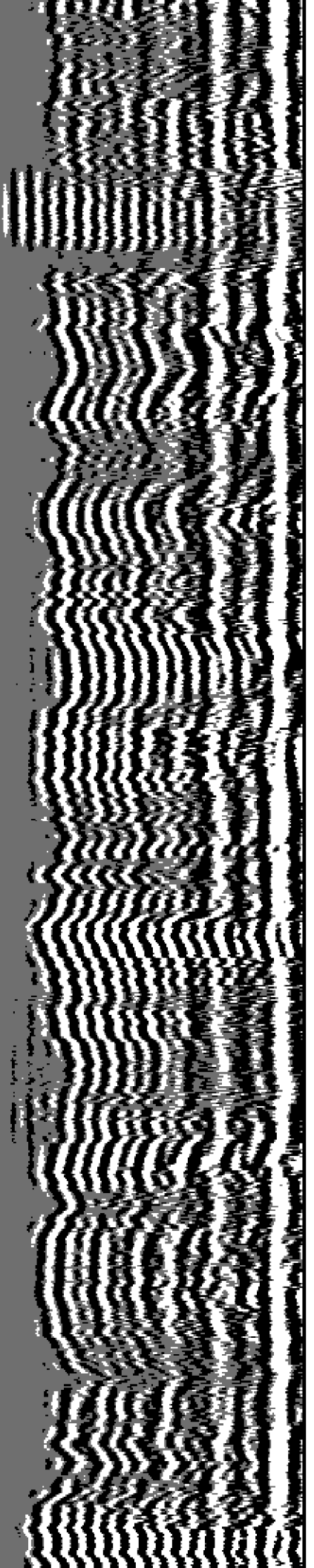




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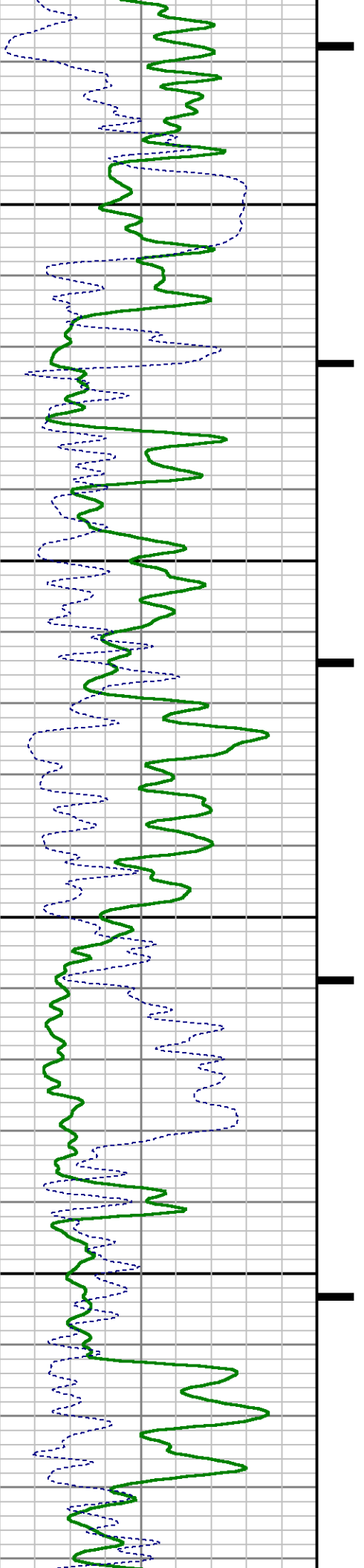
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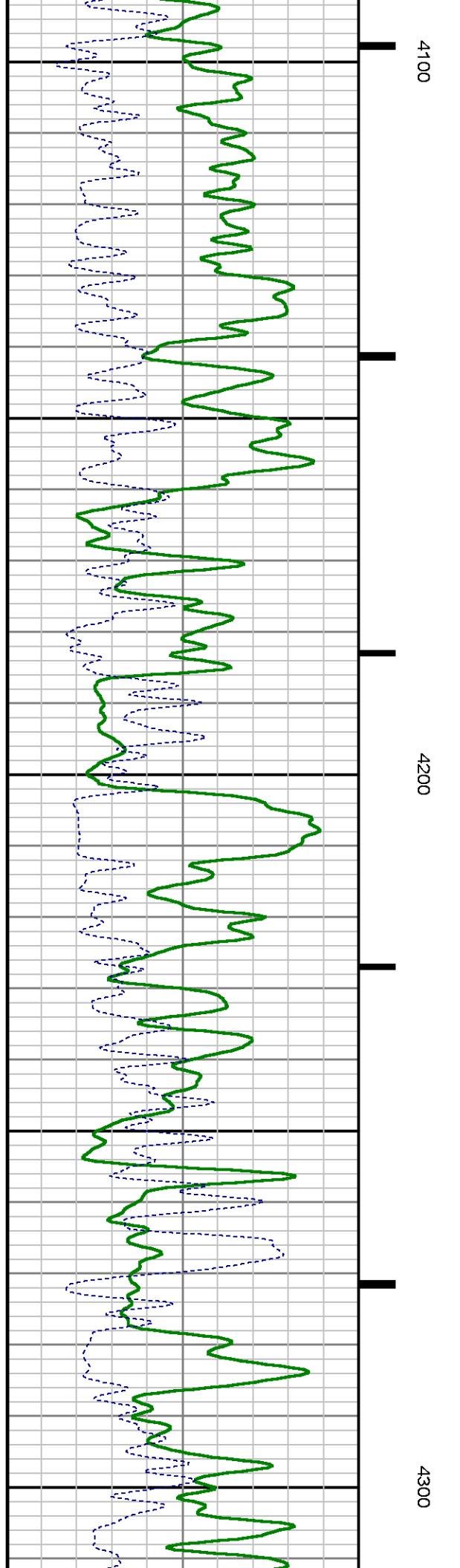
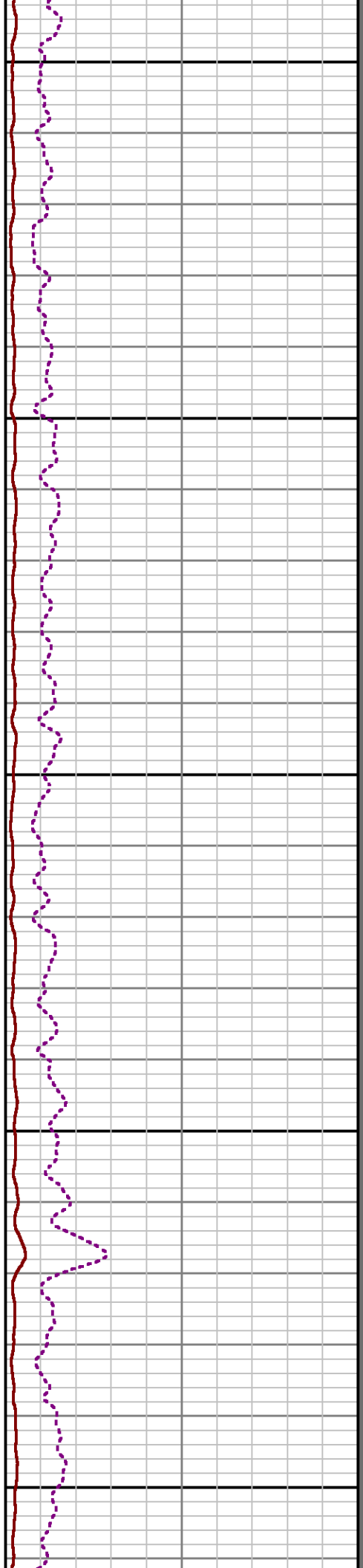
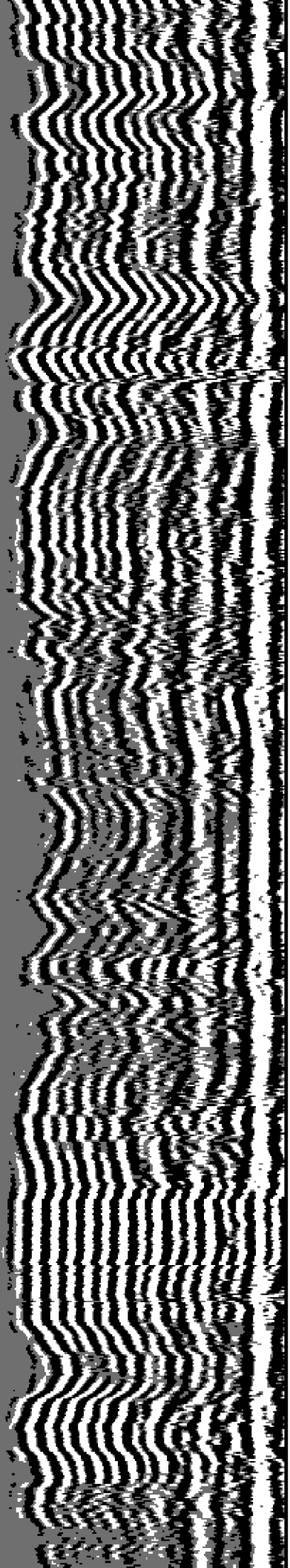


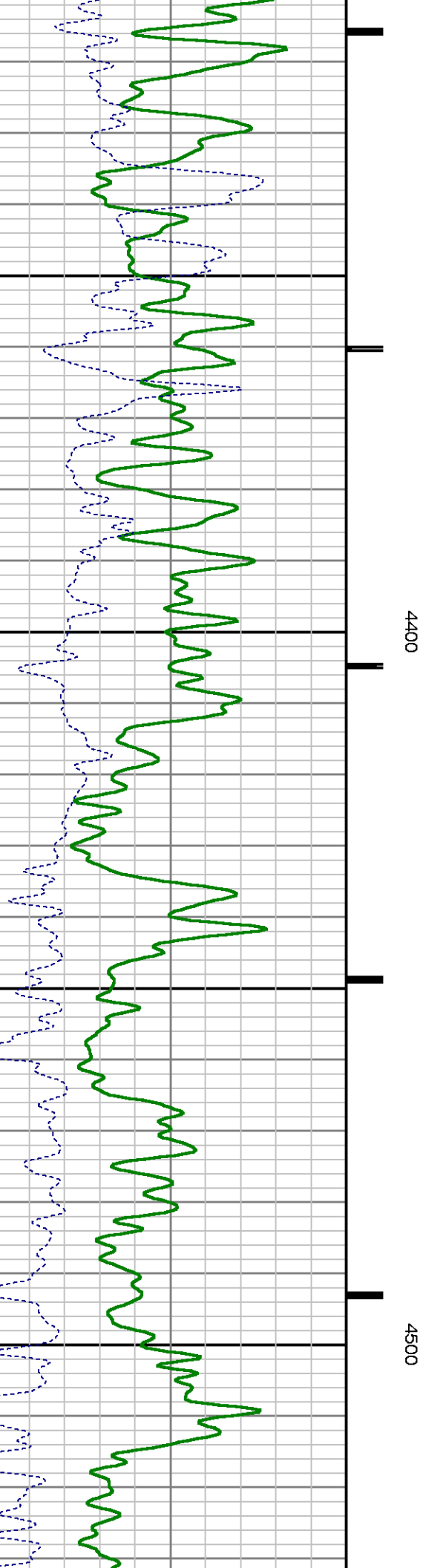
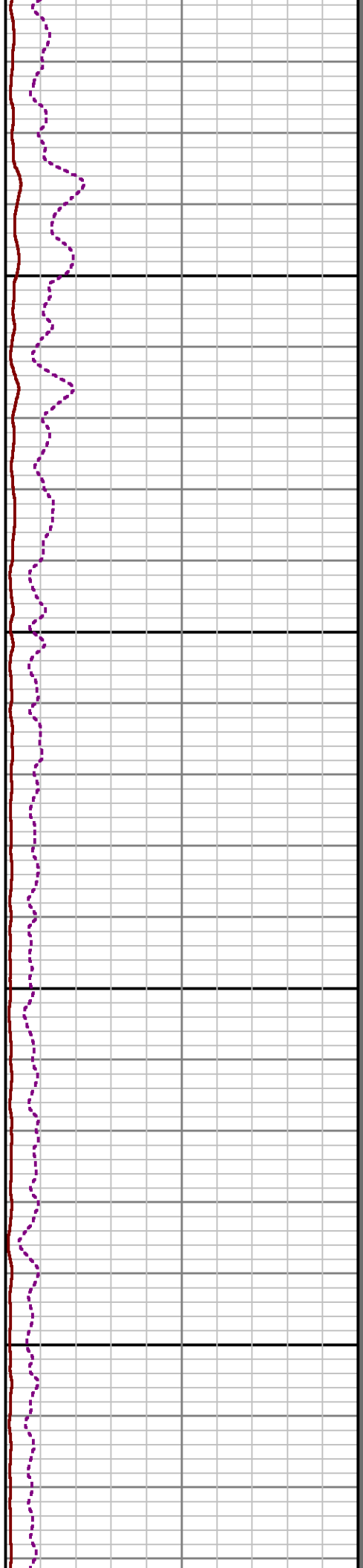
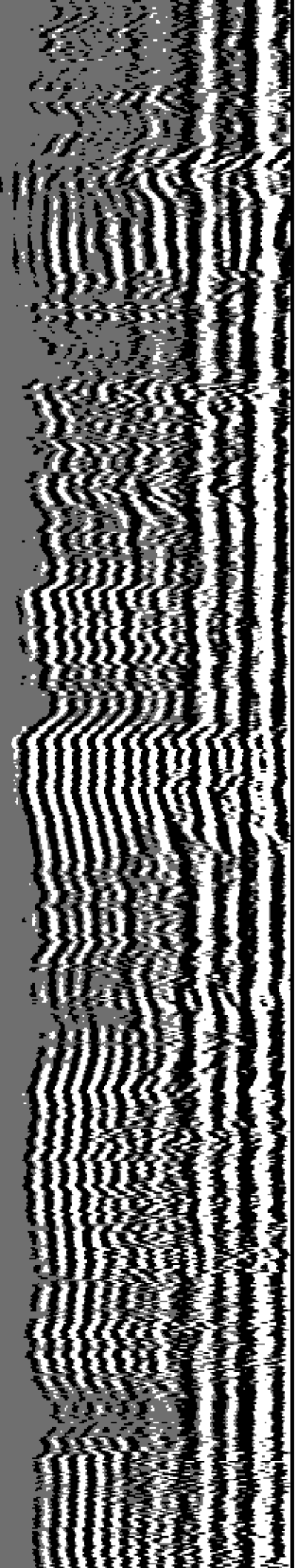


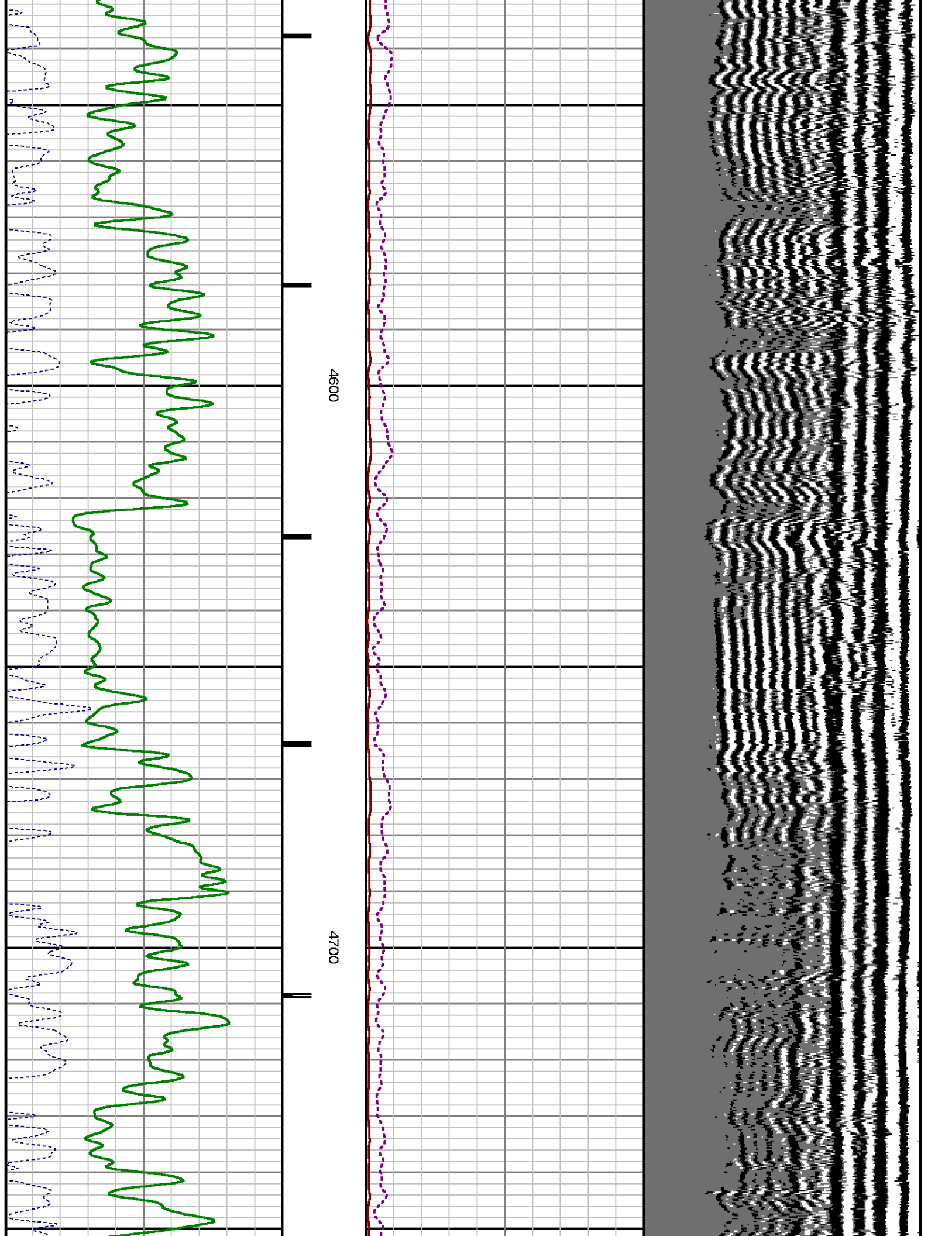
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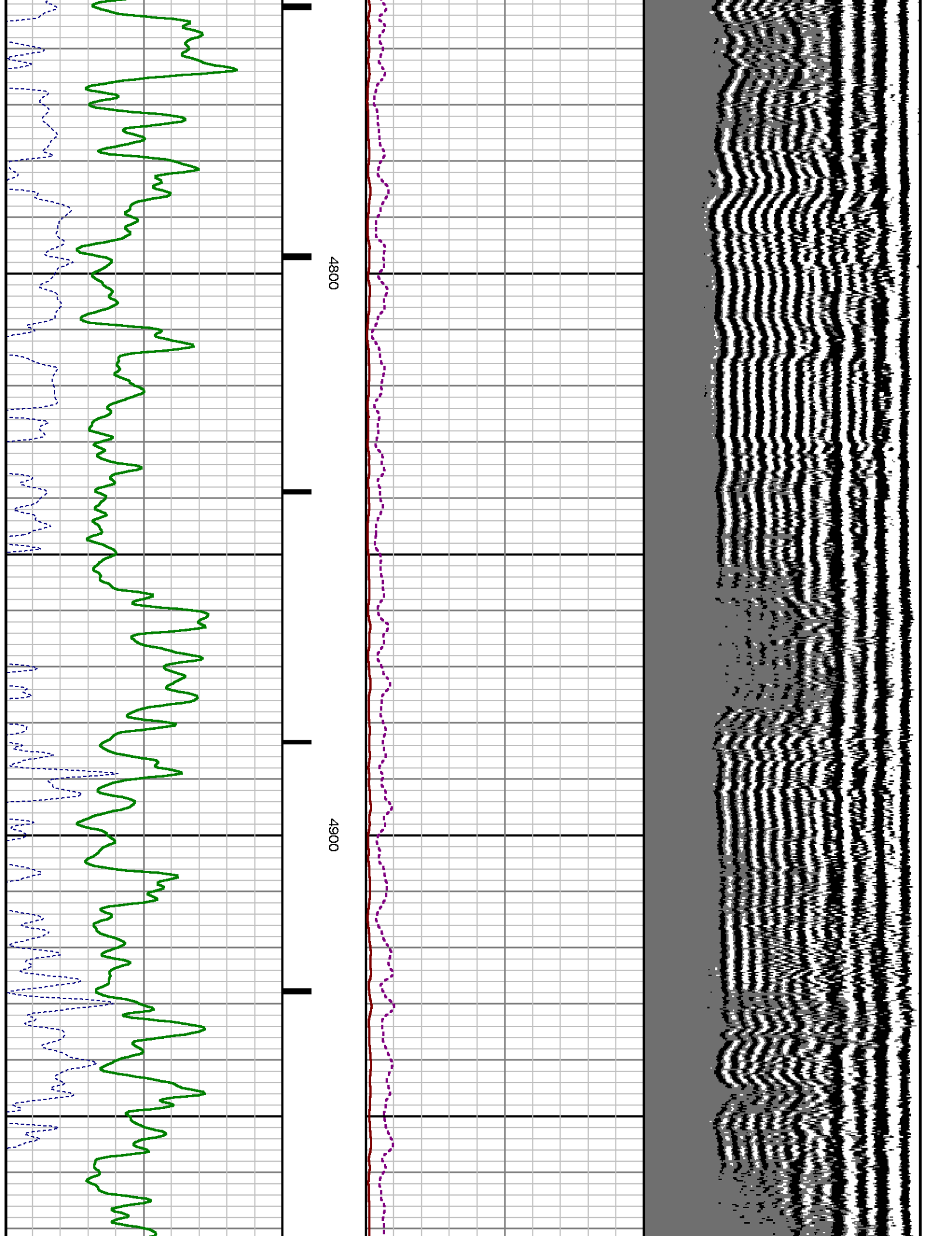
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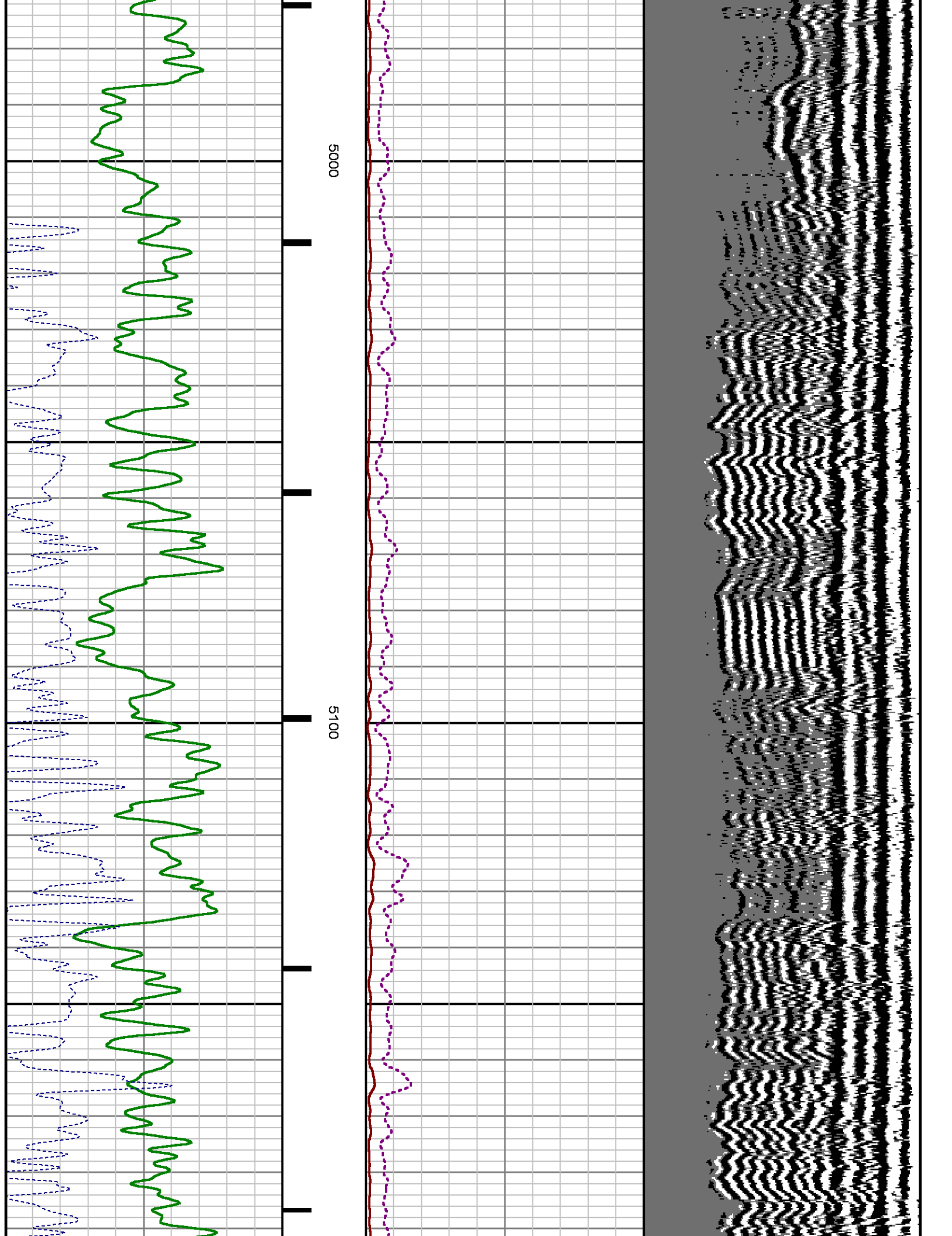


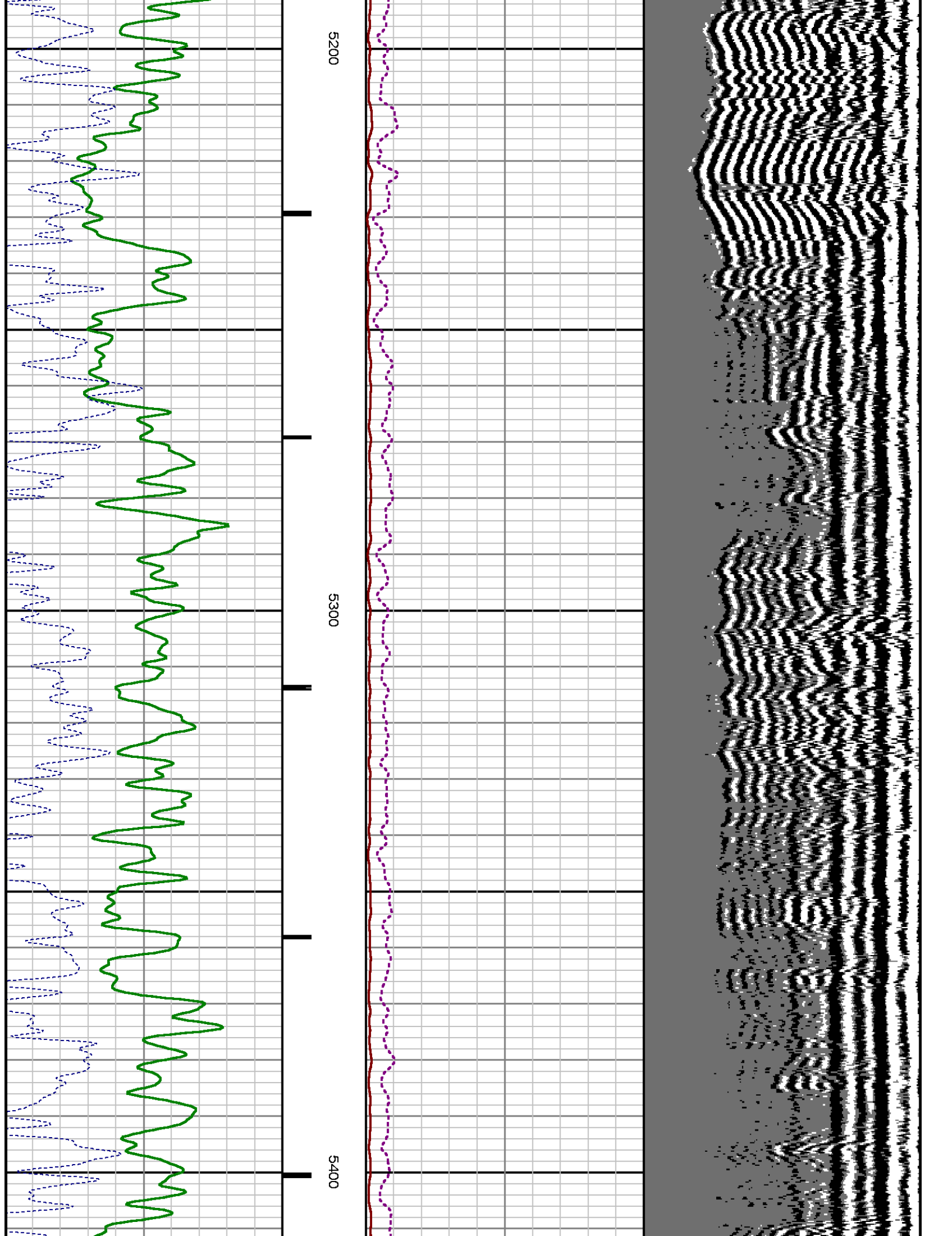


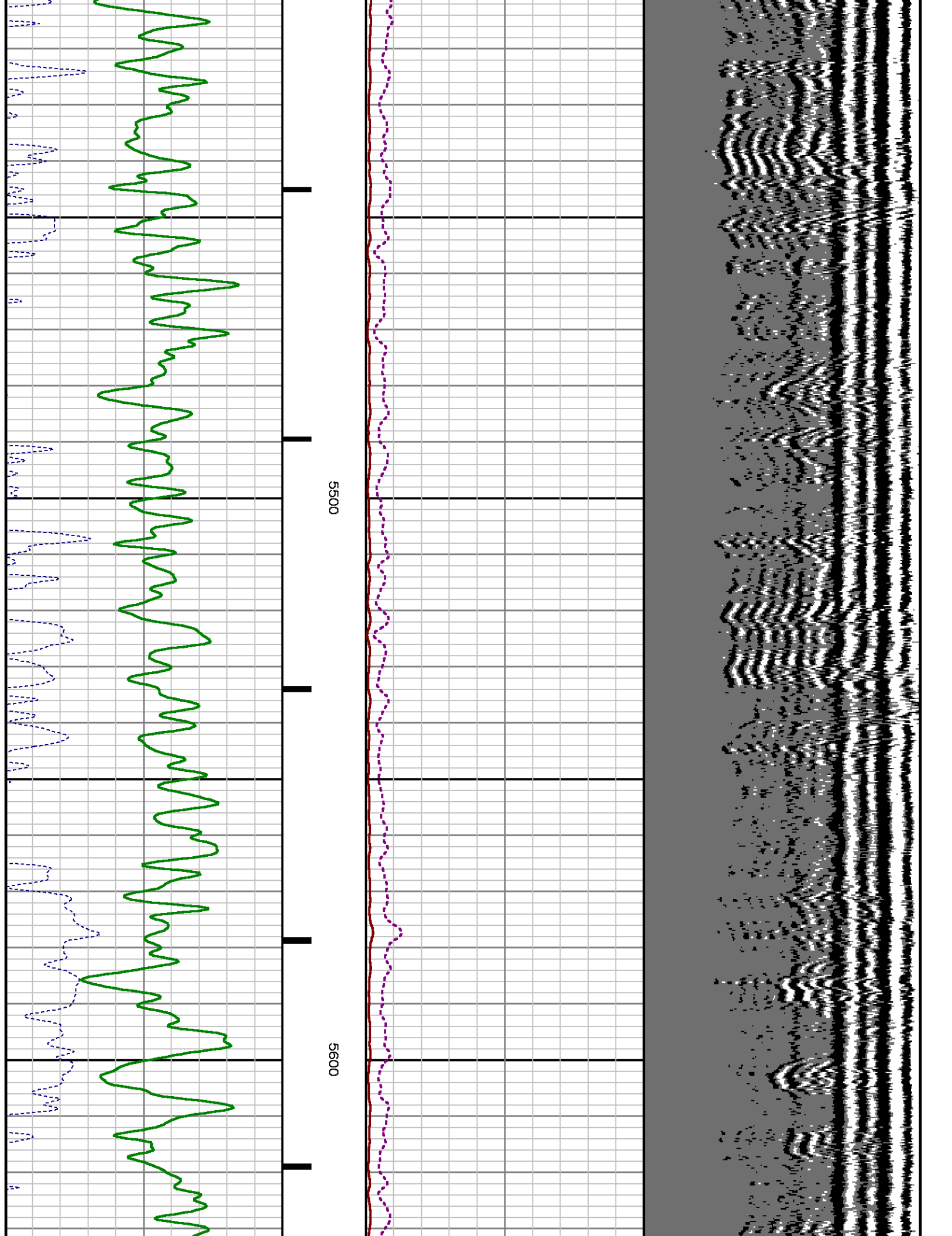


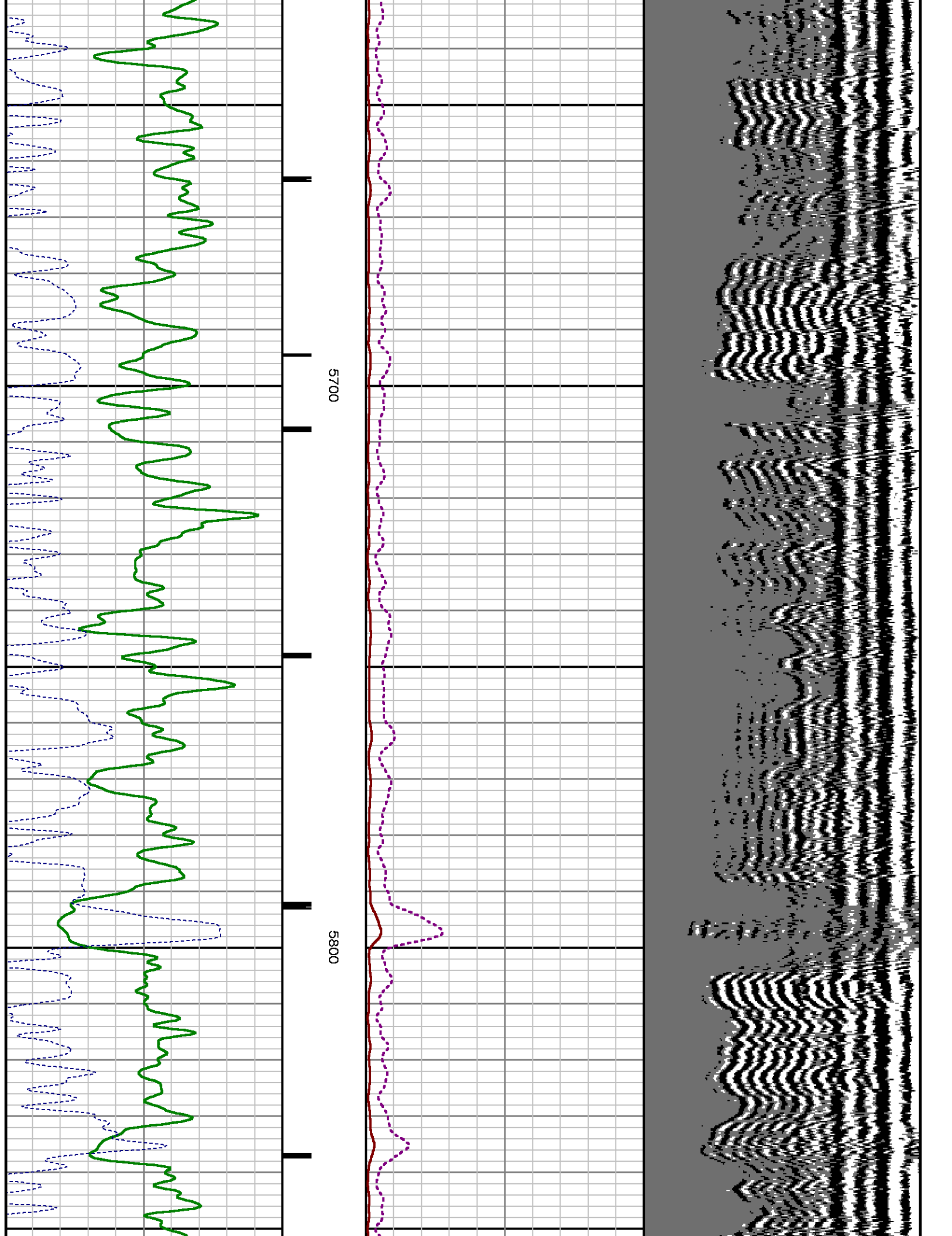


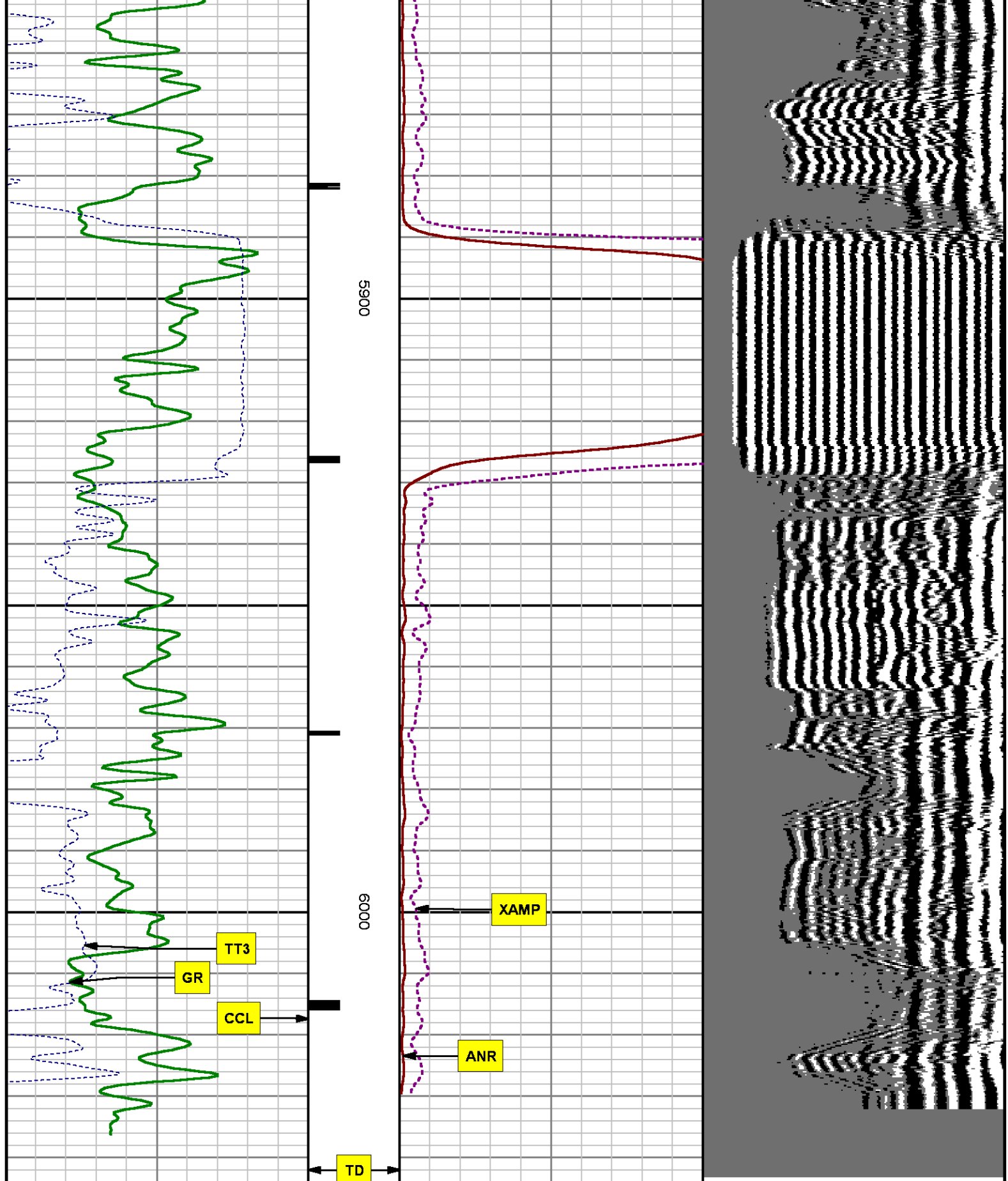












0	GR	150	CCL	MD feet 1:240	0	ANR	100	200	Variable Density	1200
	gAPI		400			m v				
280	TT3	180			0	XAMP	20		us	
	u sec					m v				

SECONDARY PRESENTATION

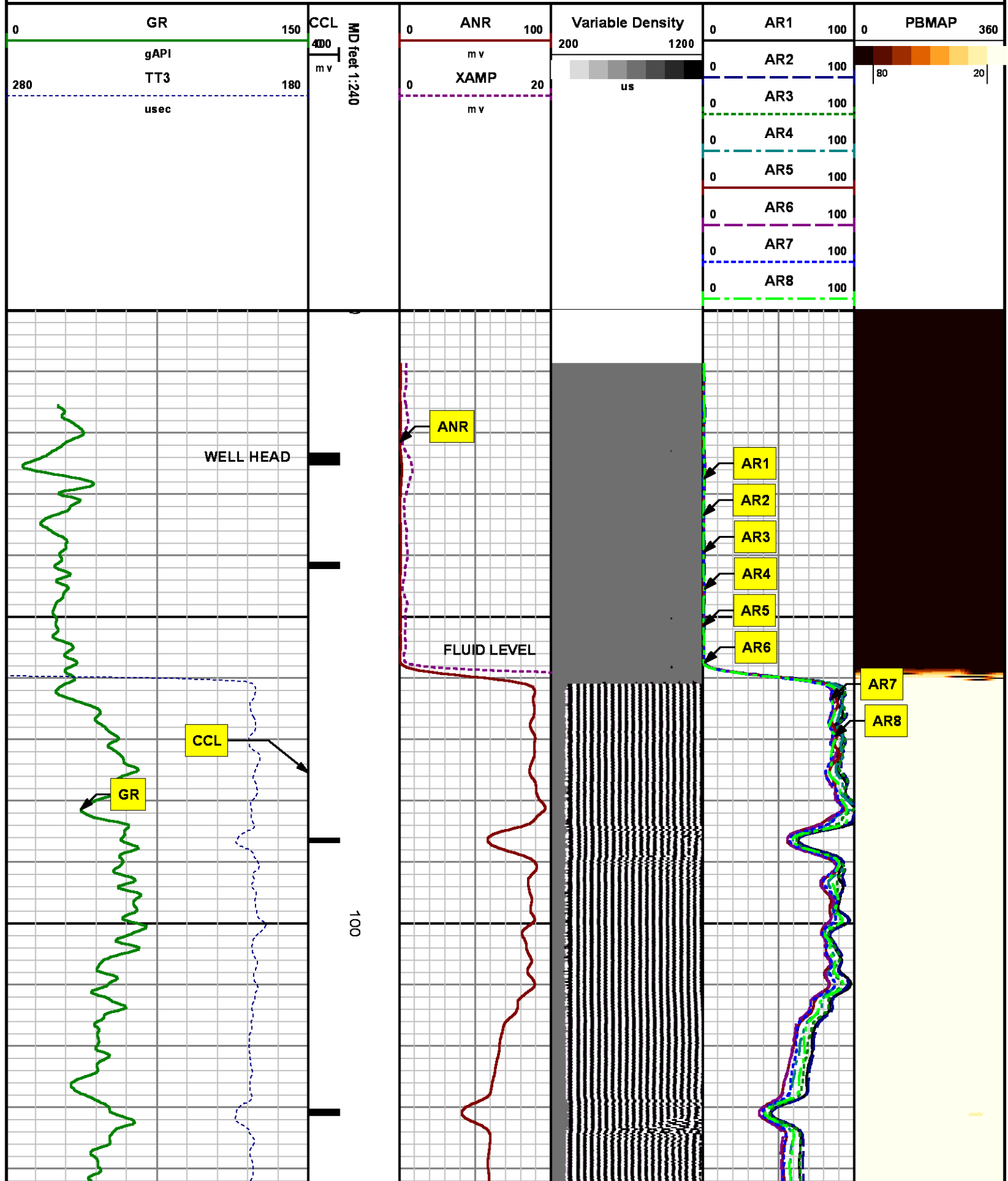
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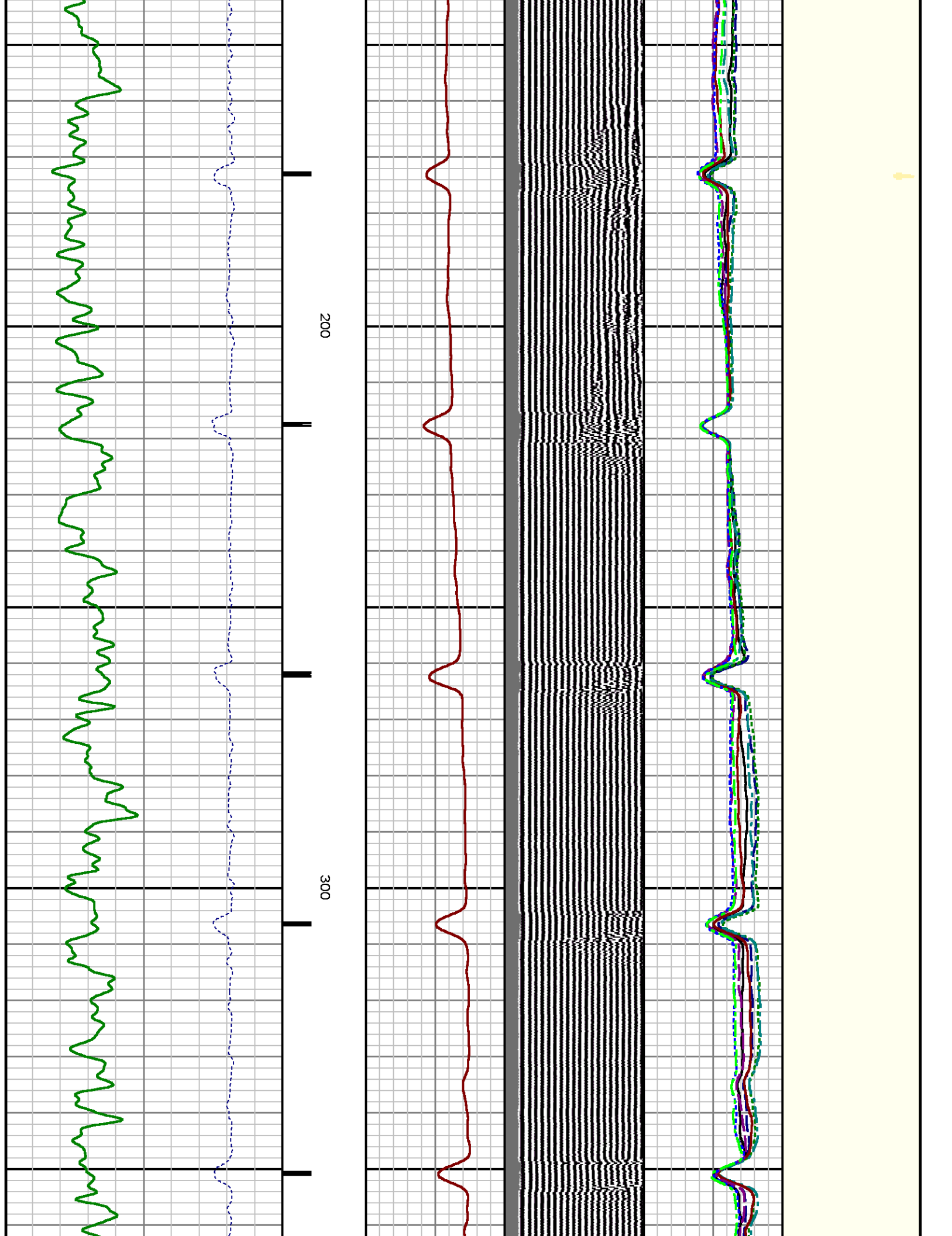
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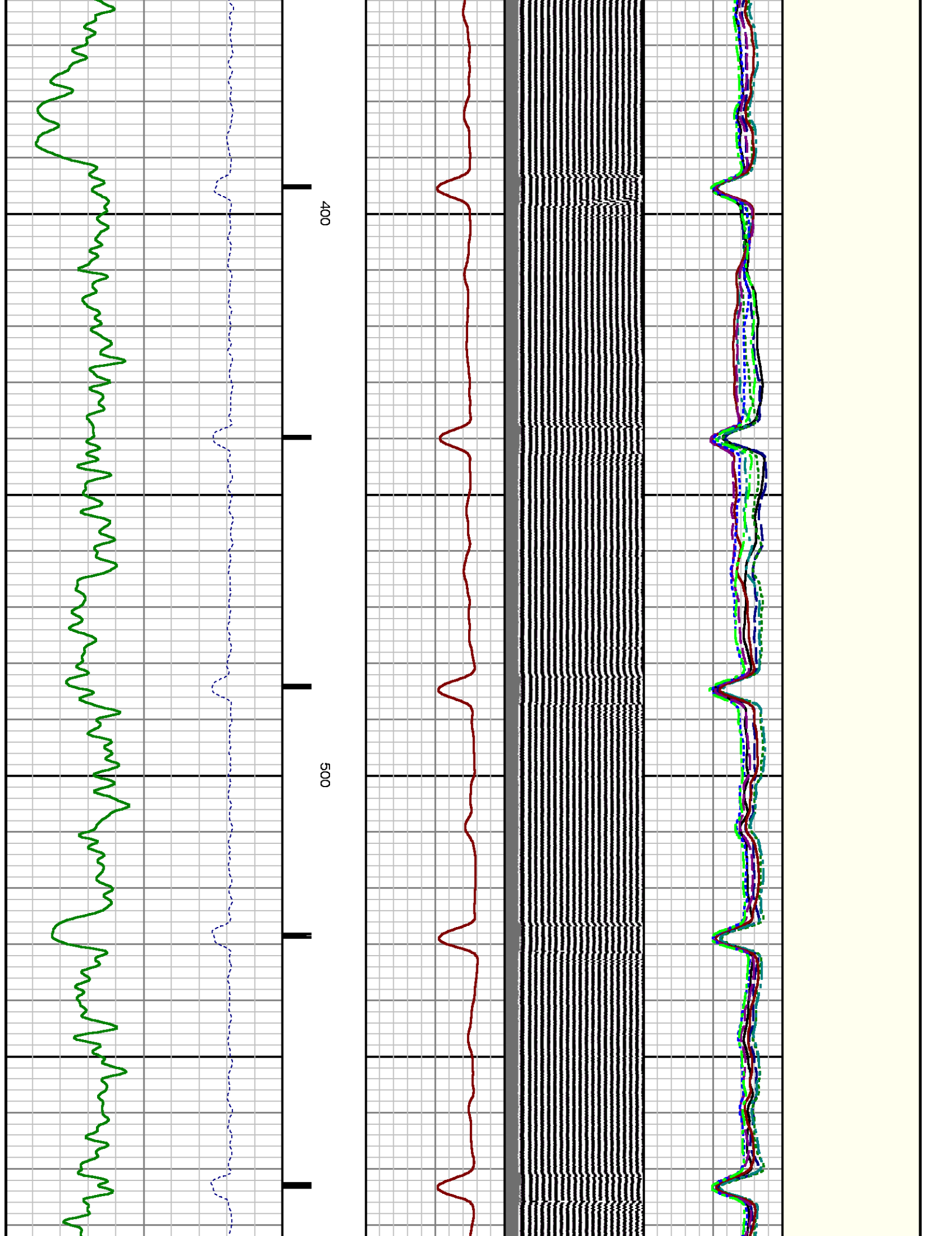
DEPTH OFFSETS

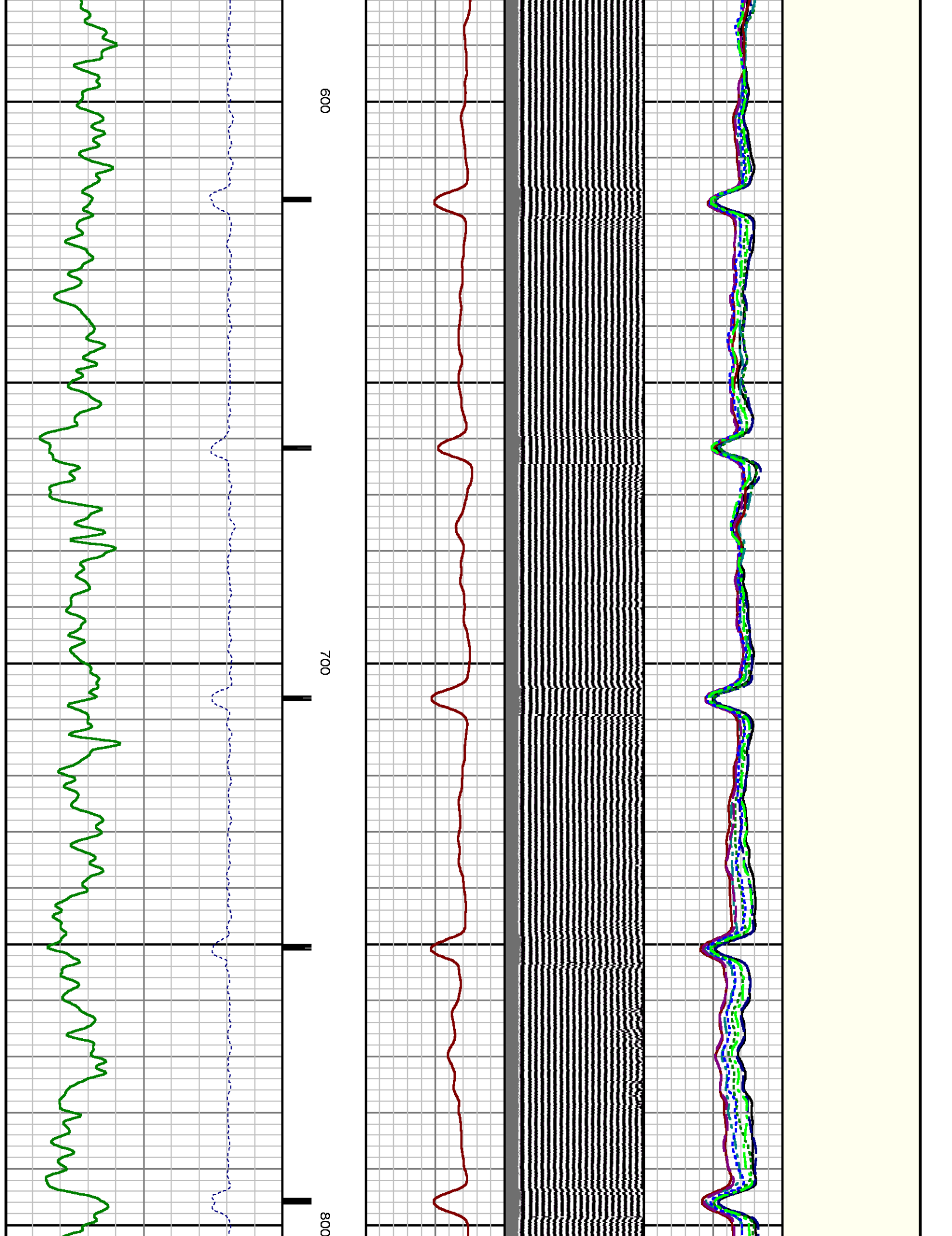
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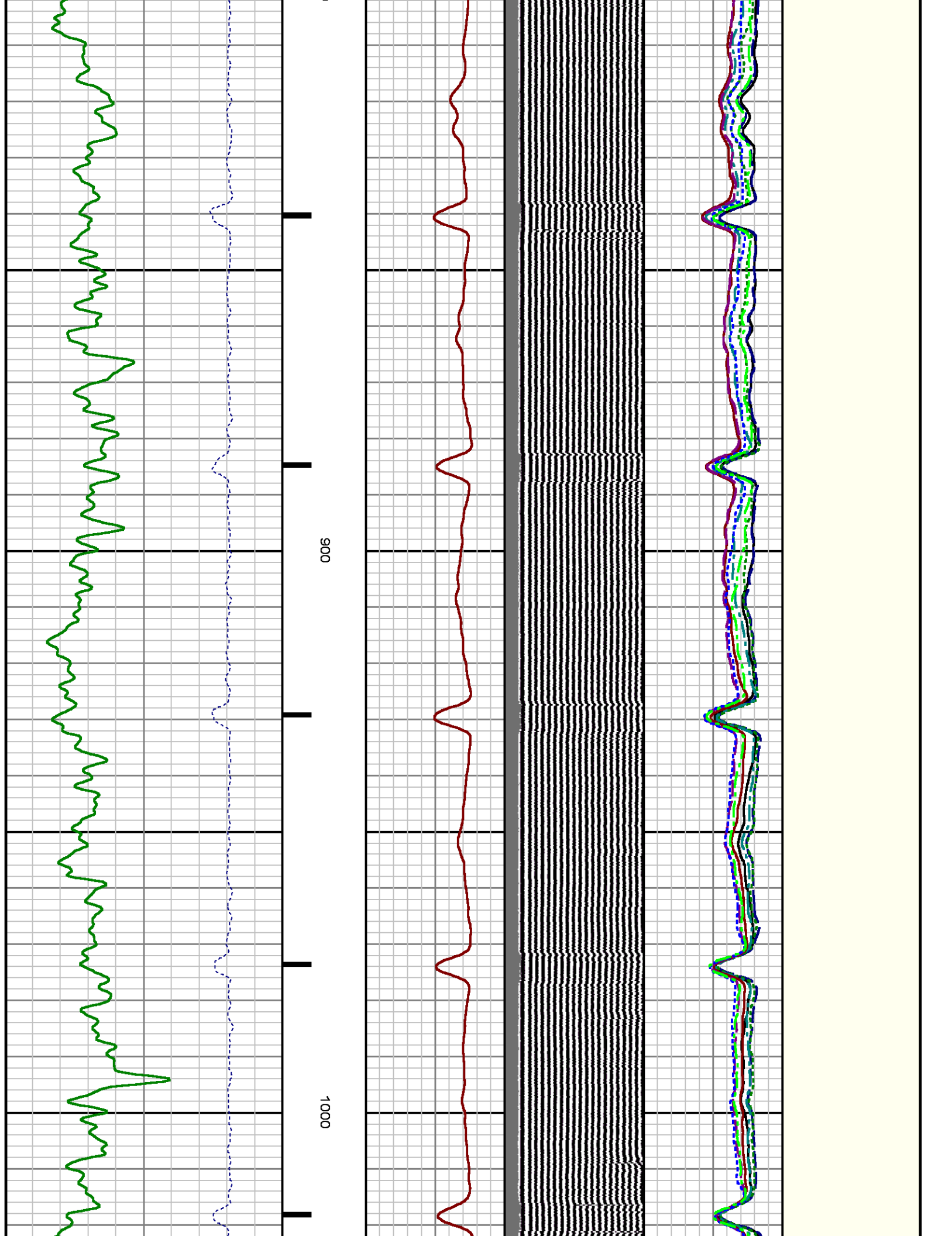
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1426XA	-12.360																										
1426XA	-11.360	AFAR	SIG	TT5																							
2459XA	-7.250	CCL																									
2459XA	-5.390	GR																									
2459XA	0.000	NEU																									

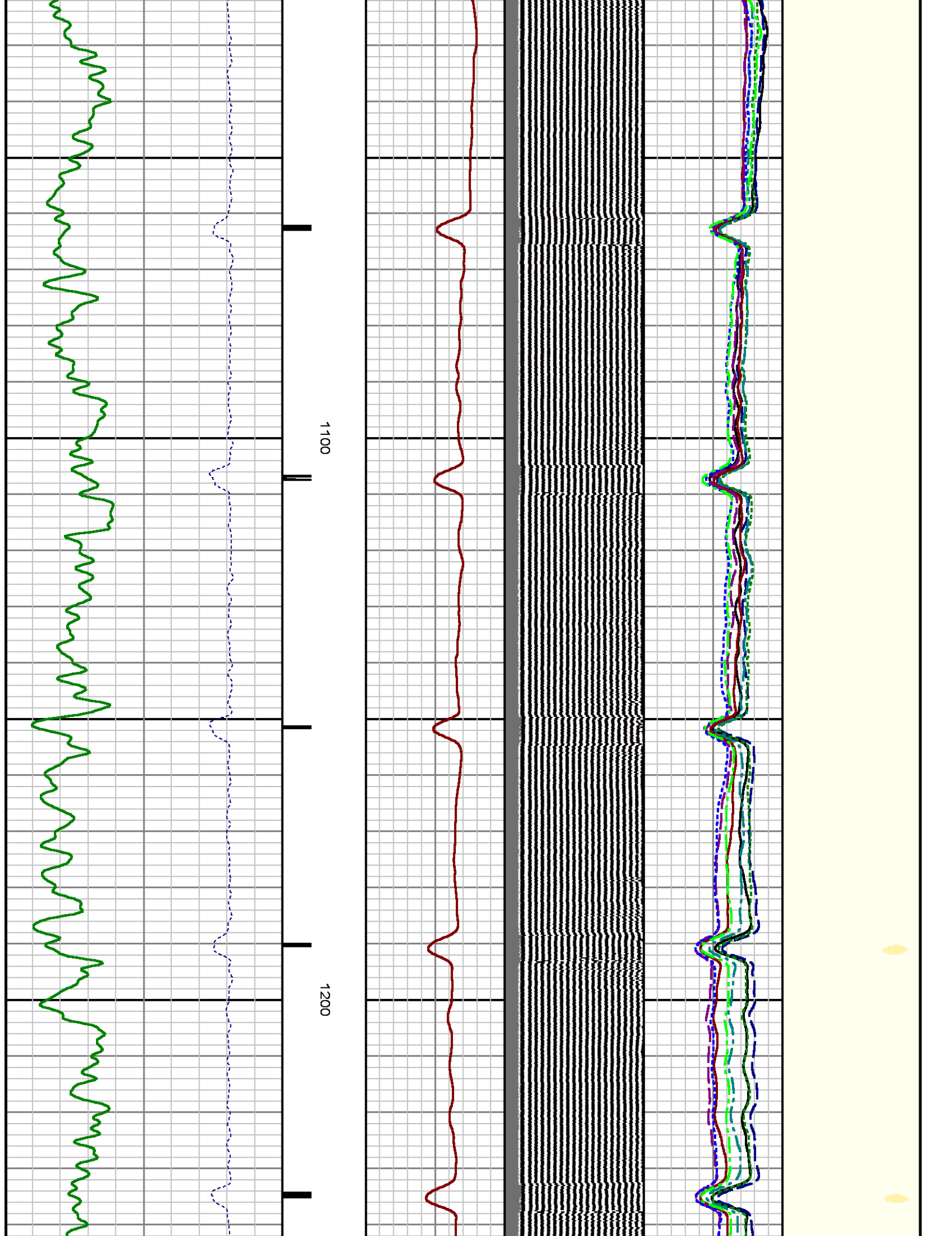


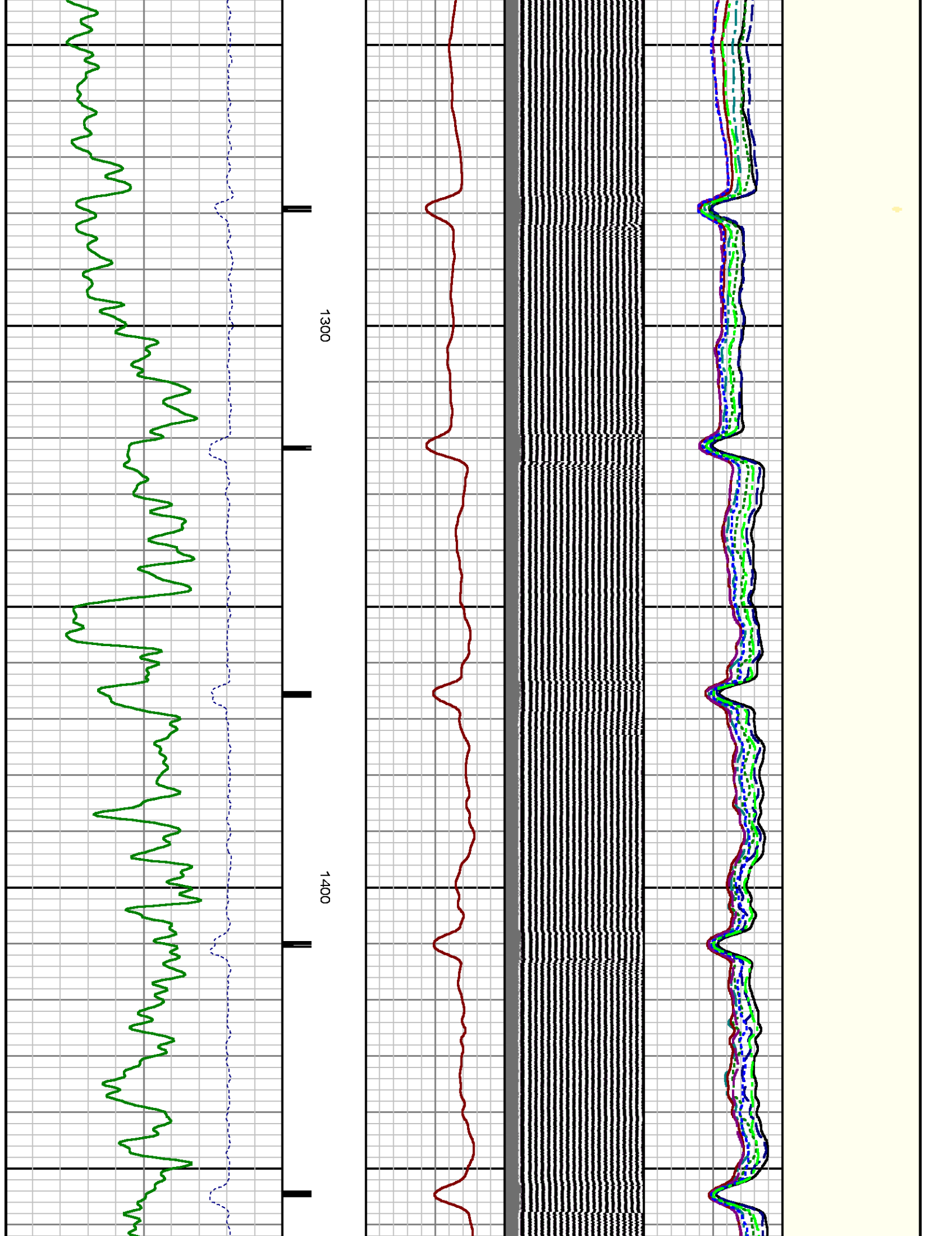


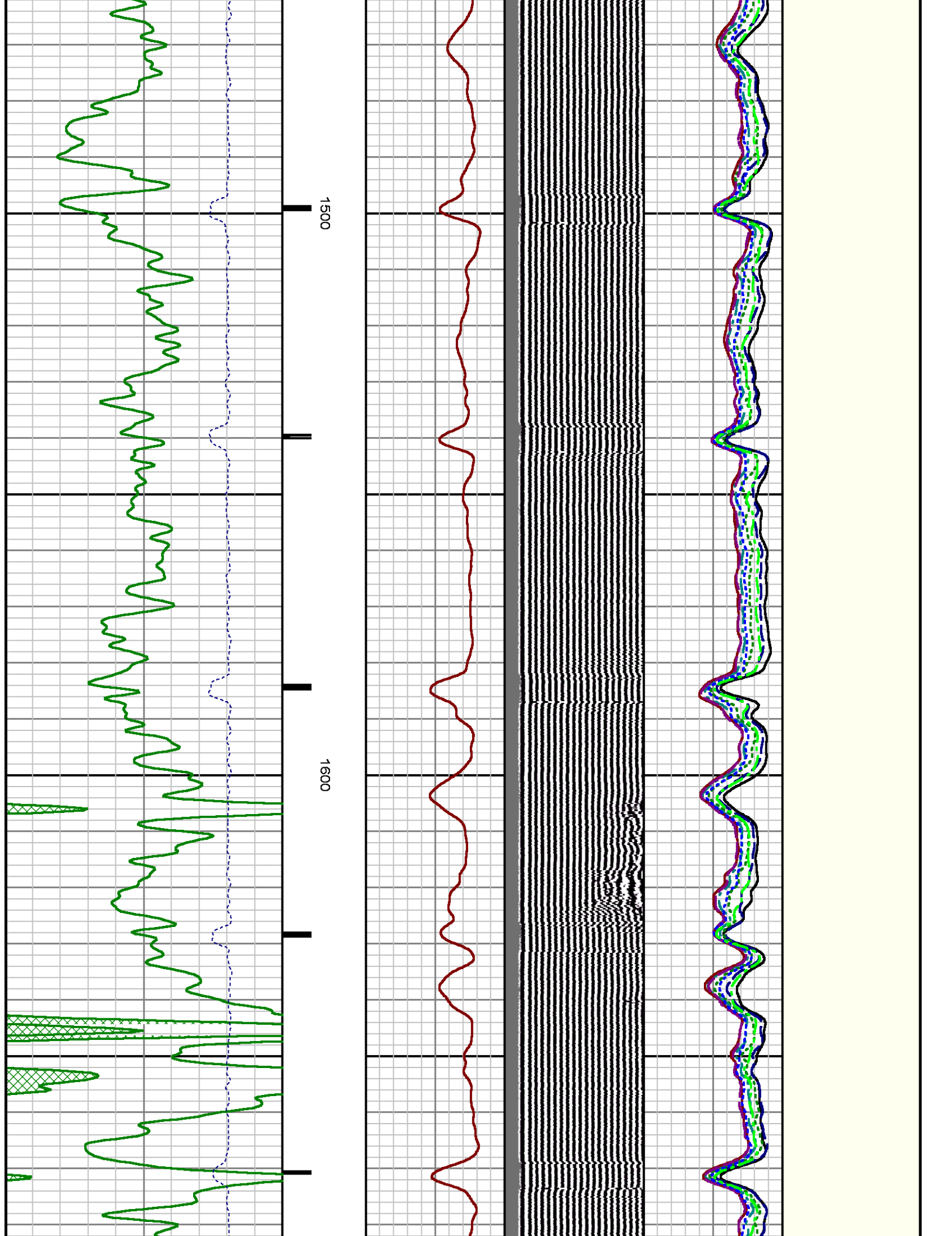


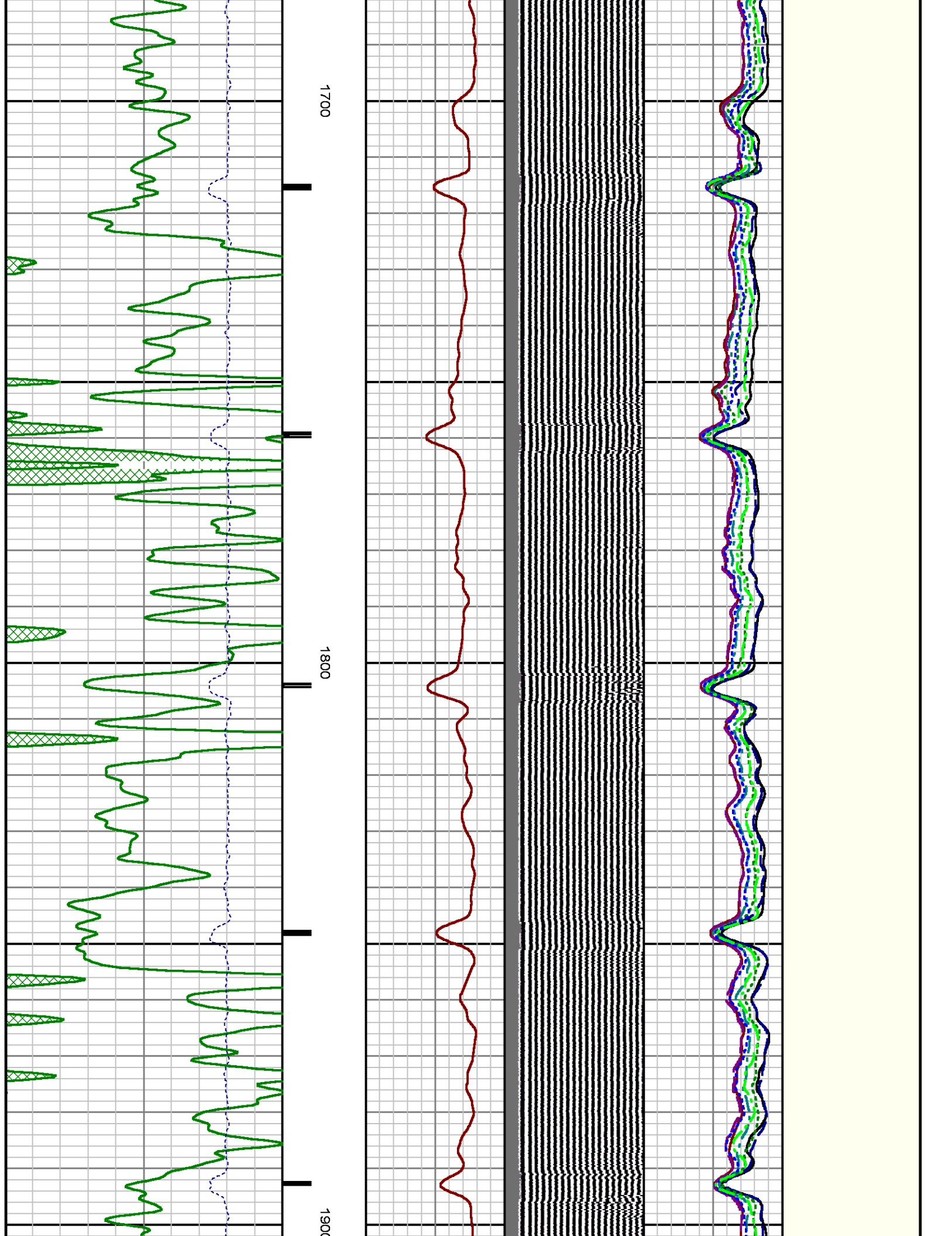


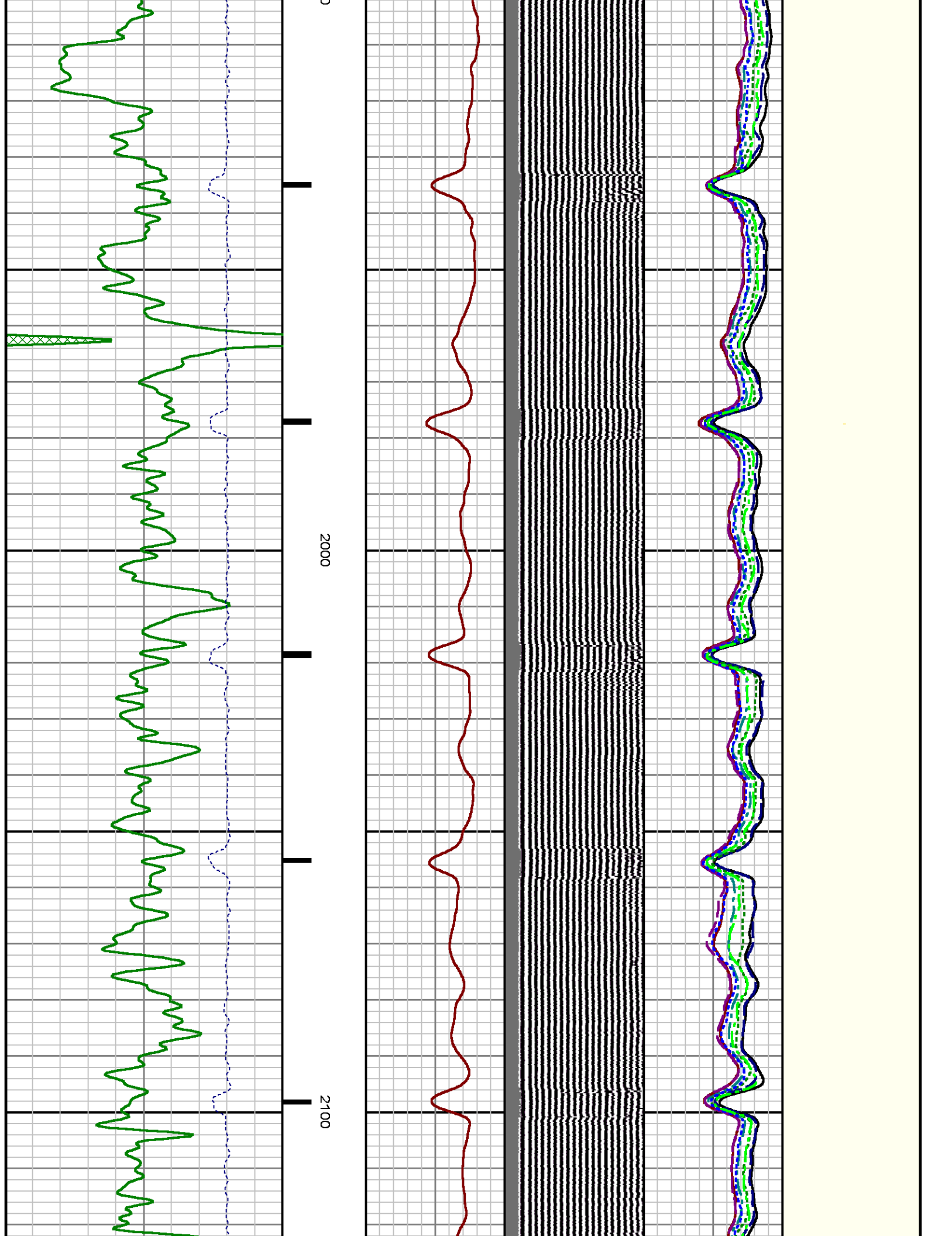


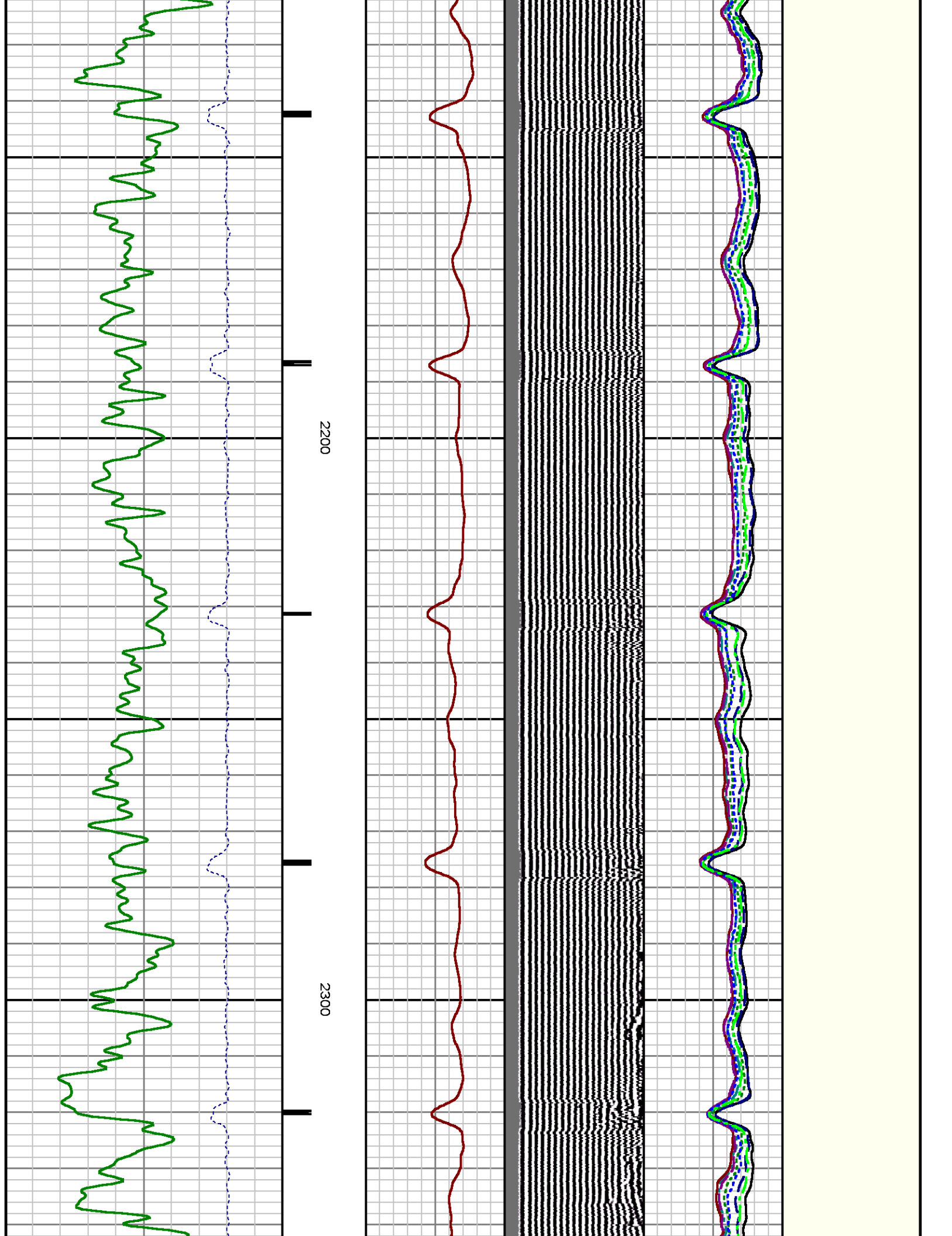


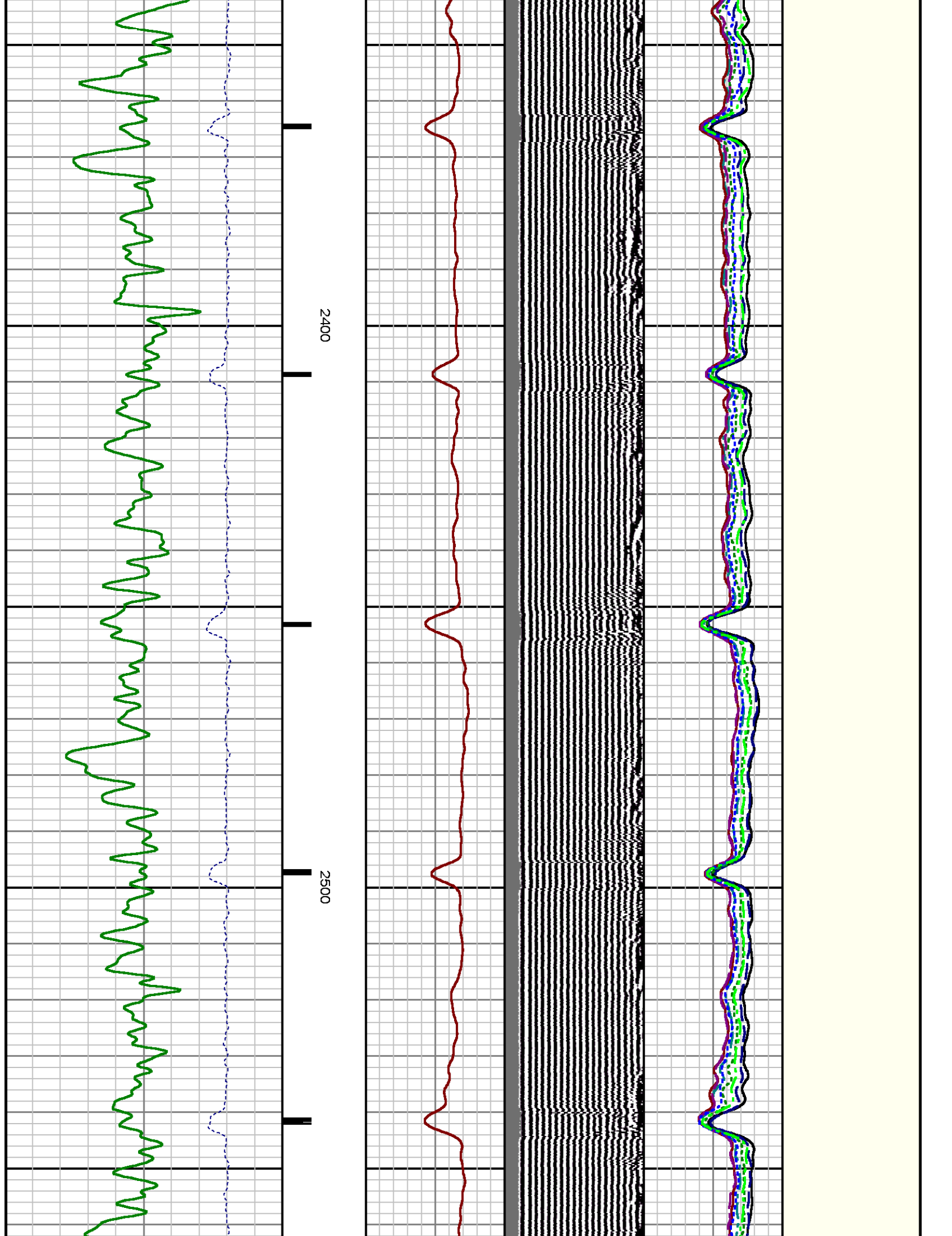


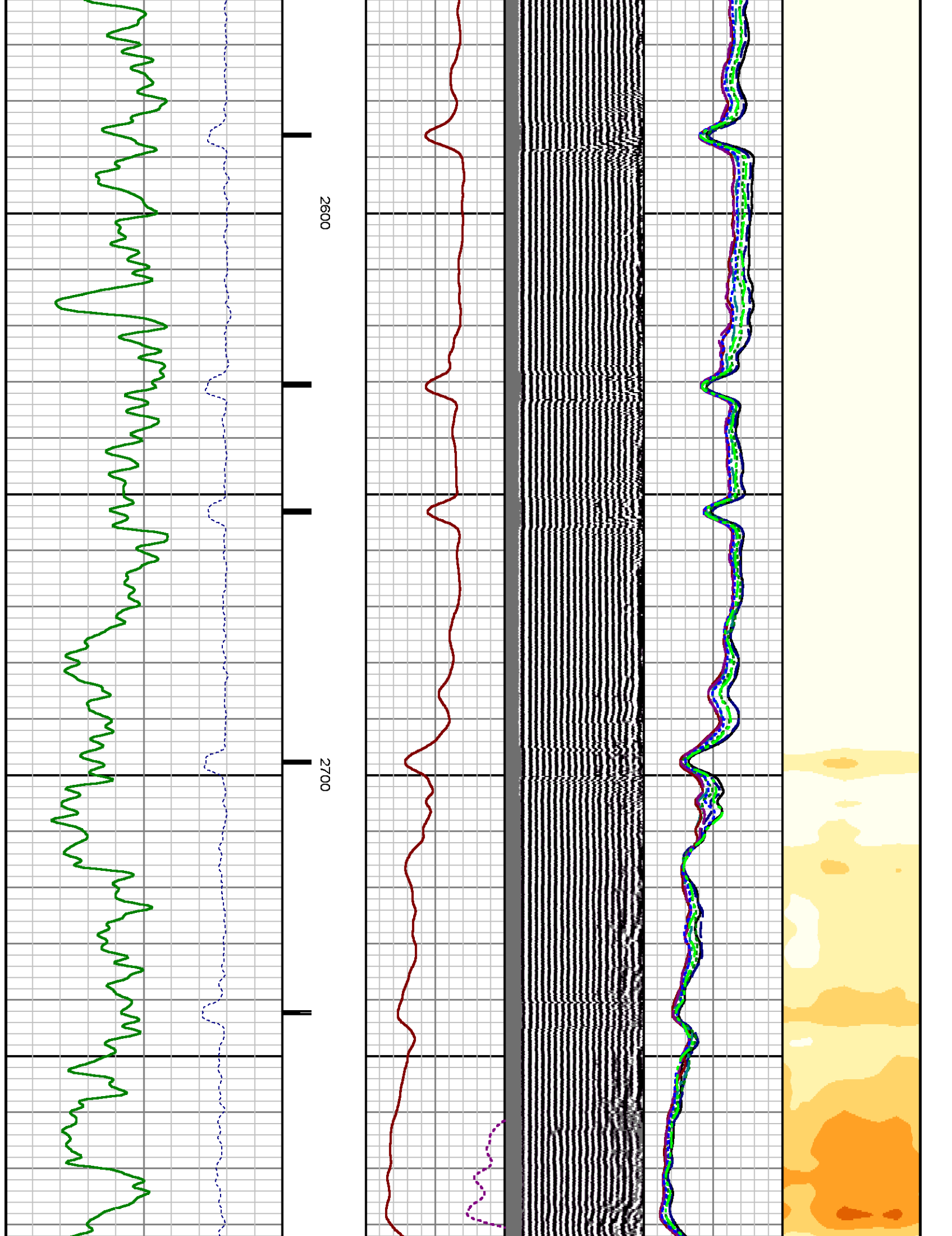


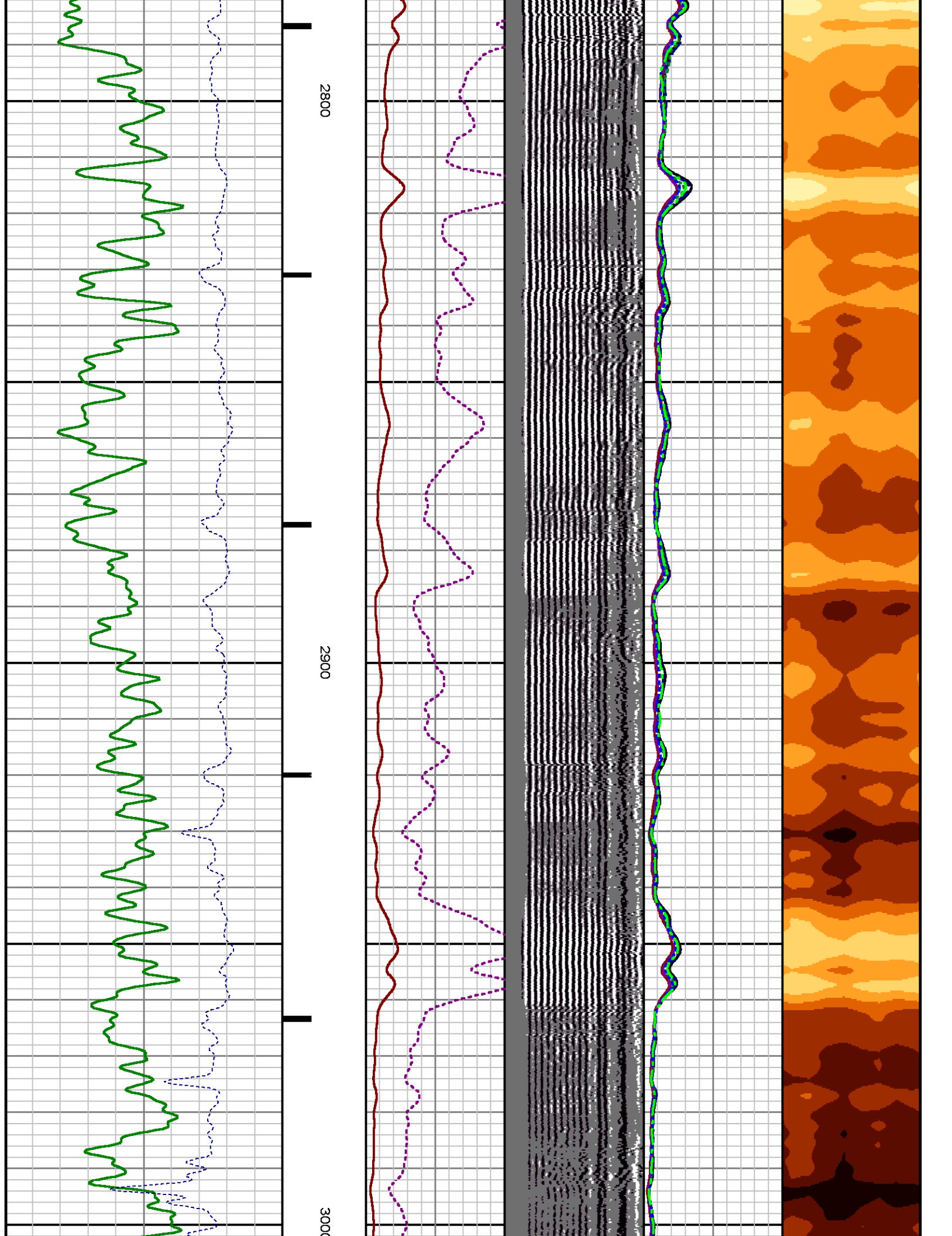


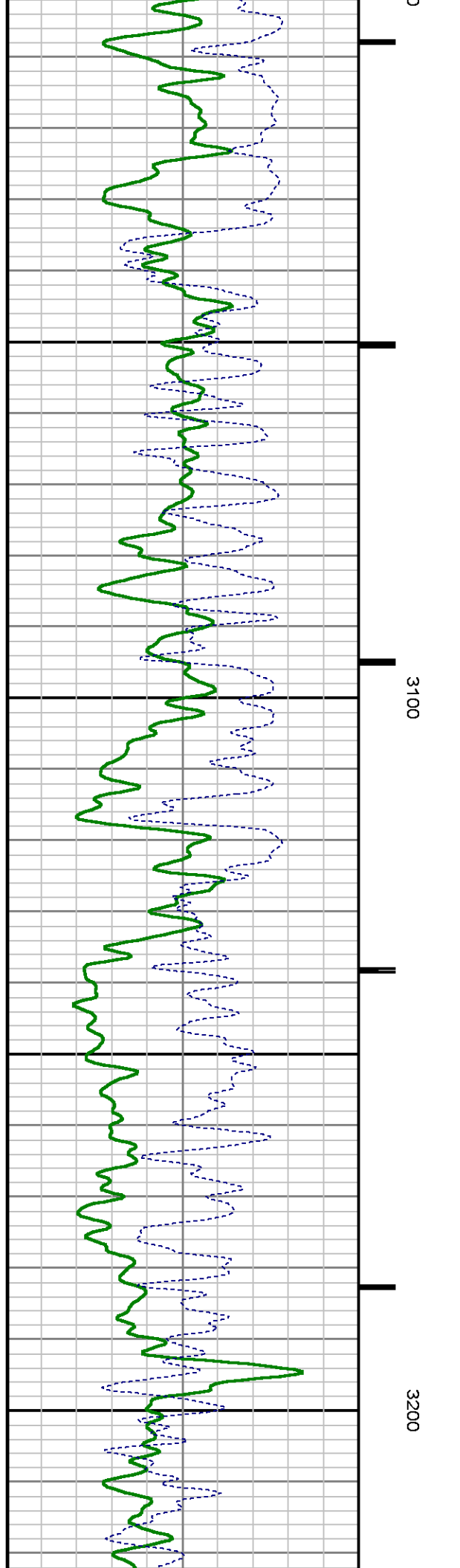
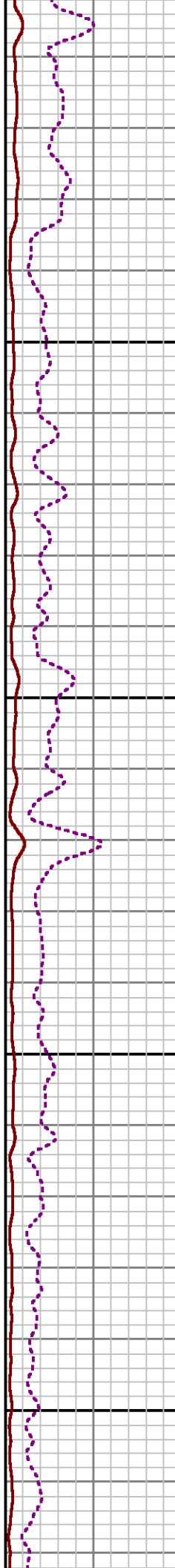
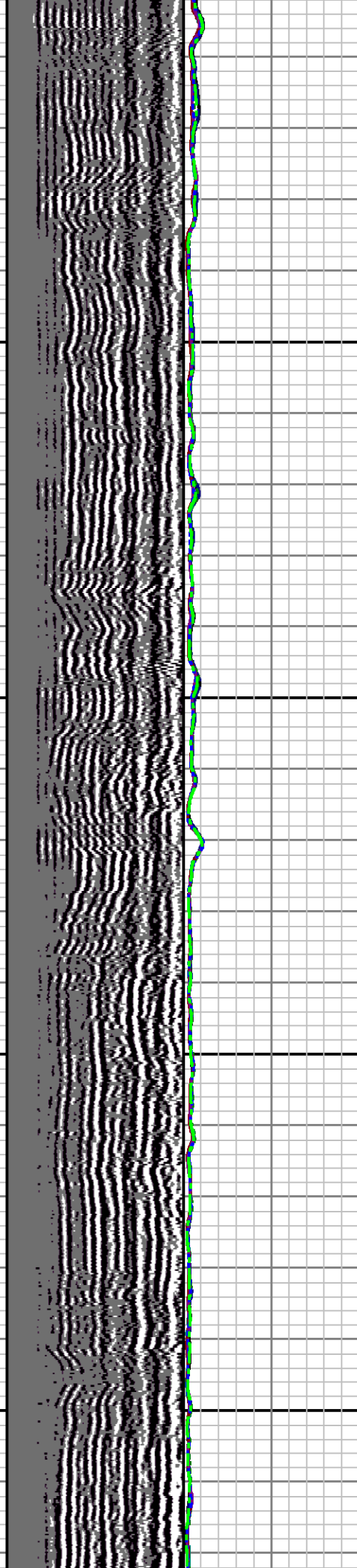


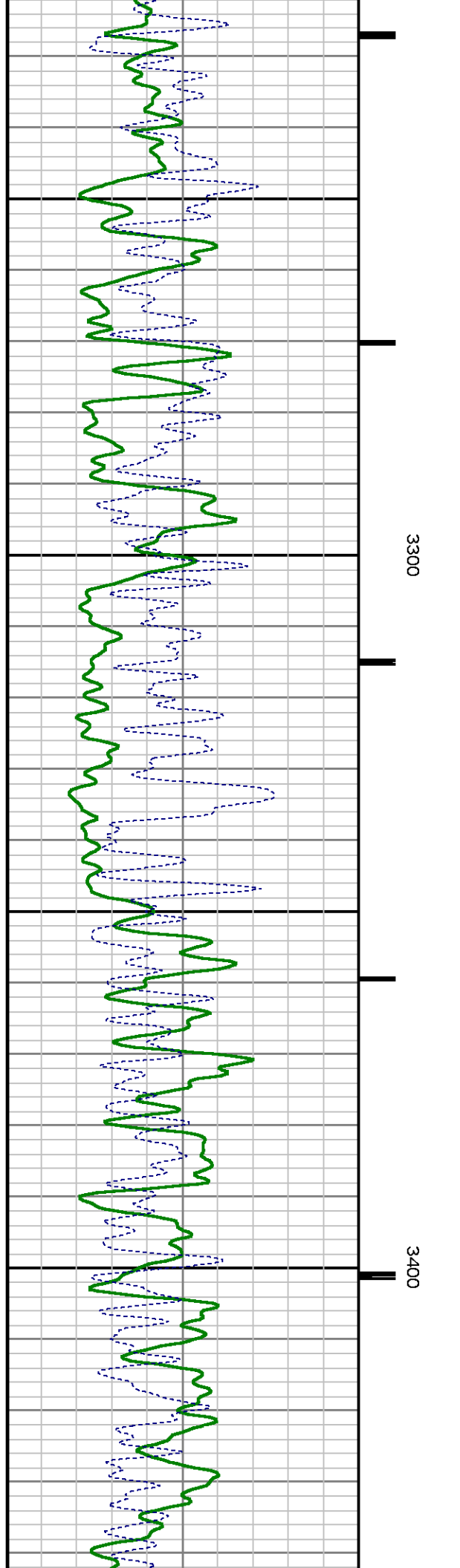
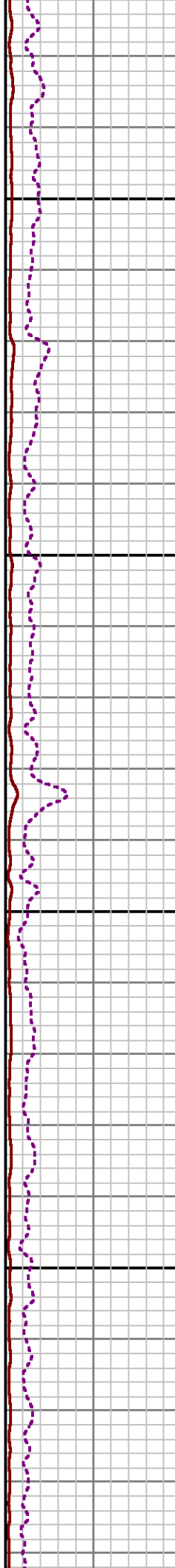
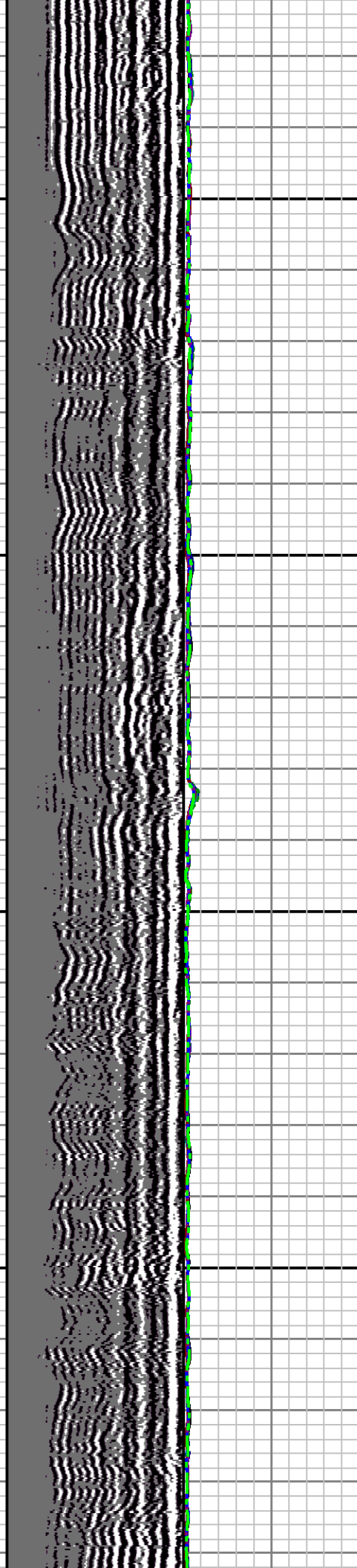


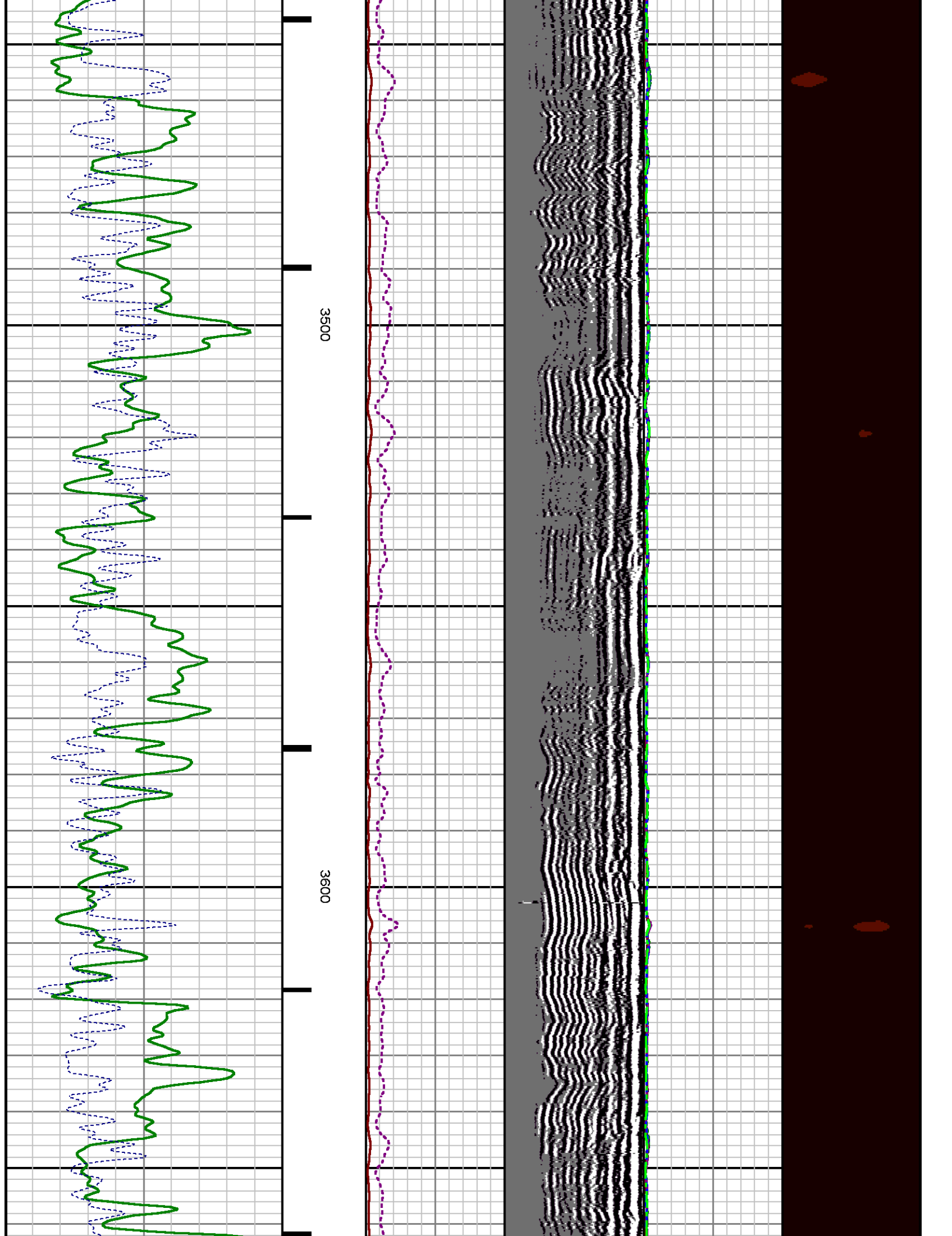


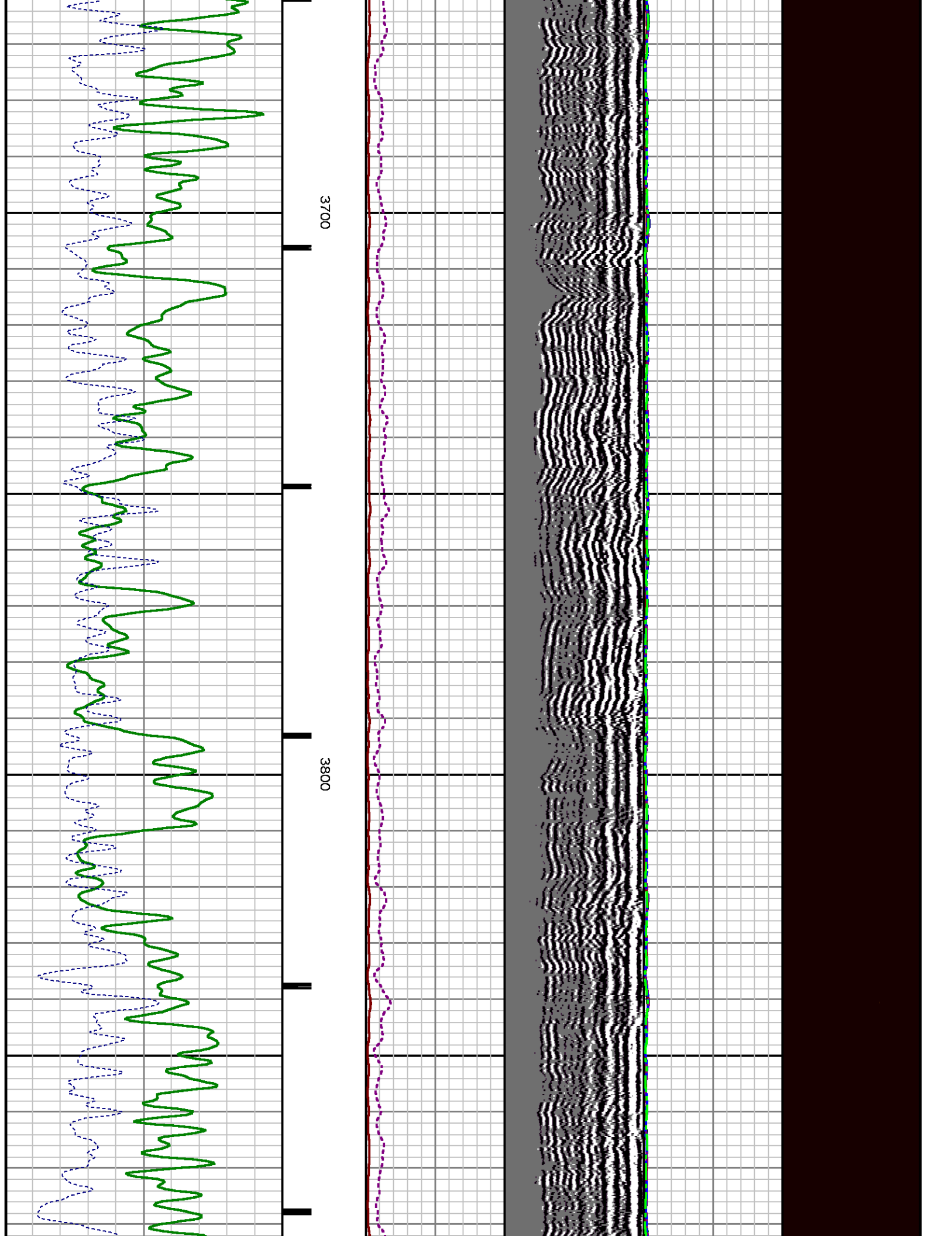


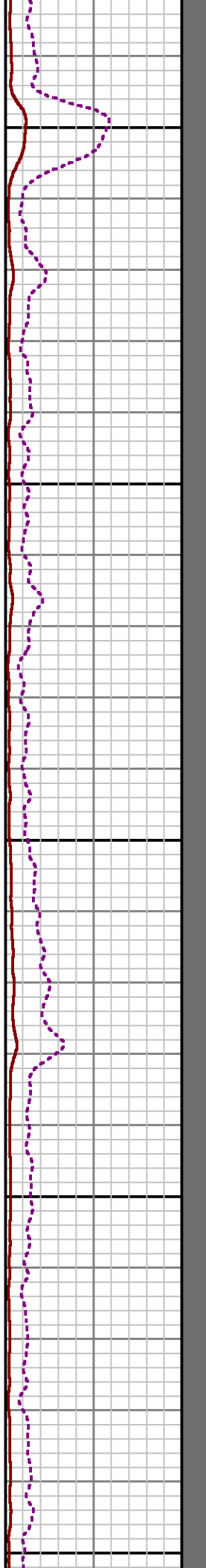
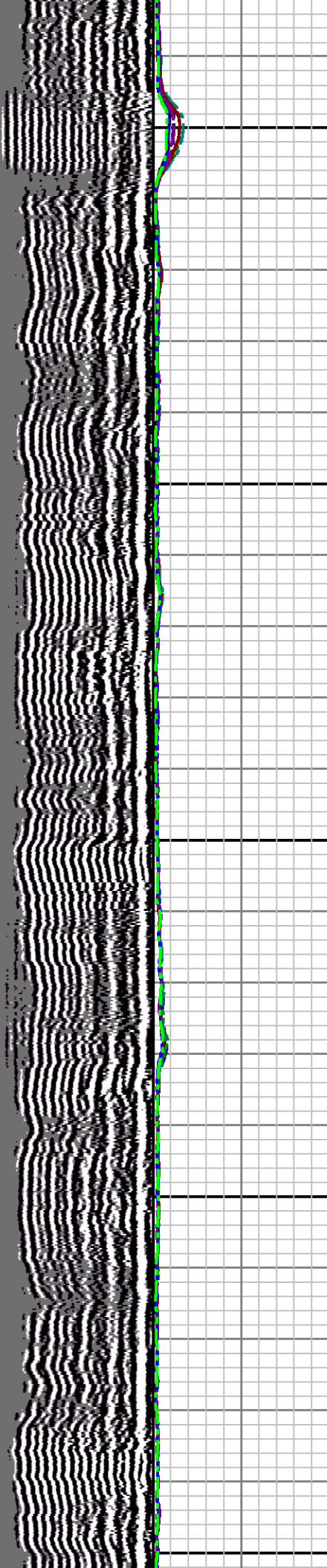








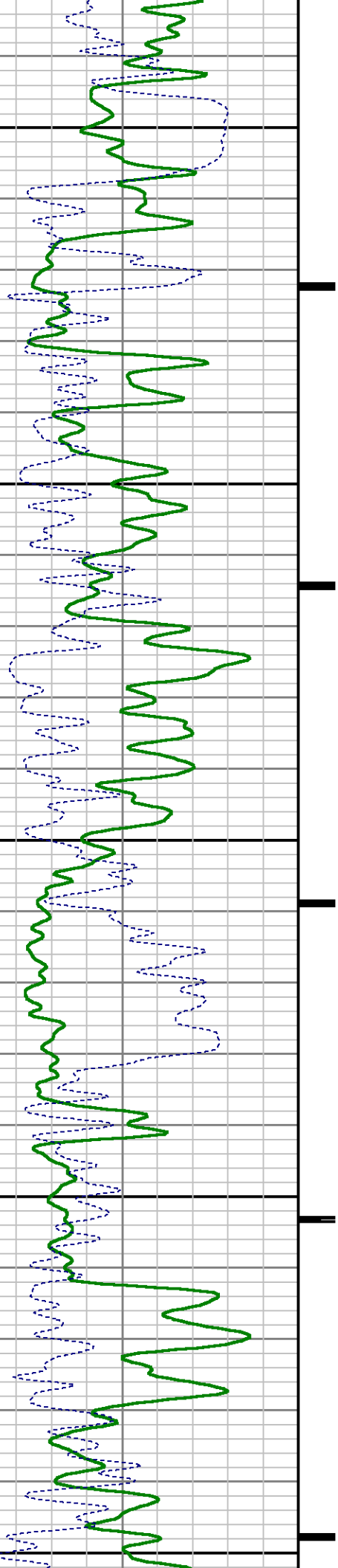


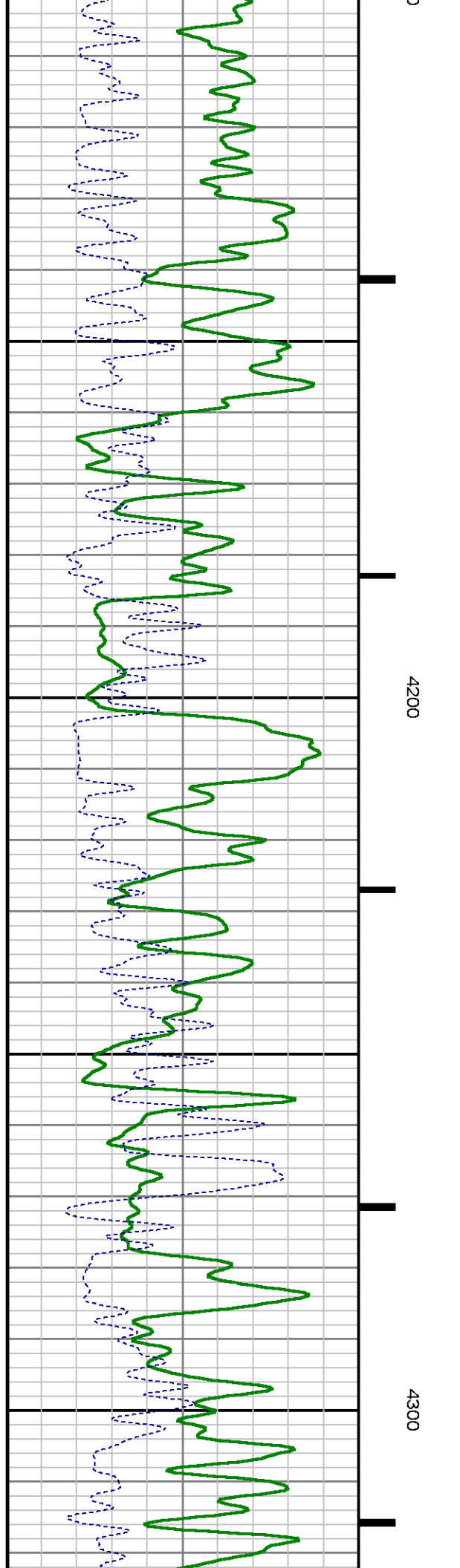
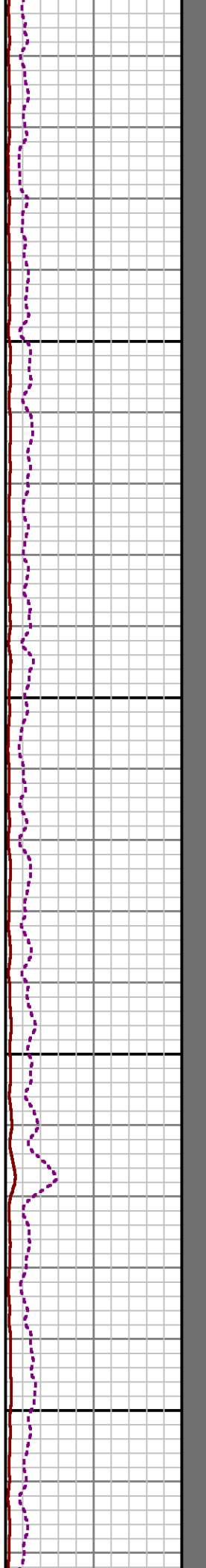
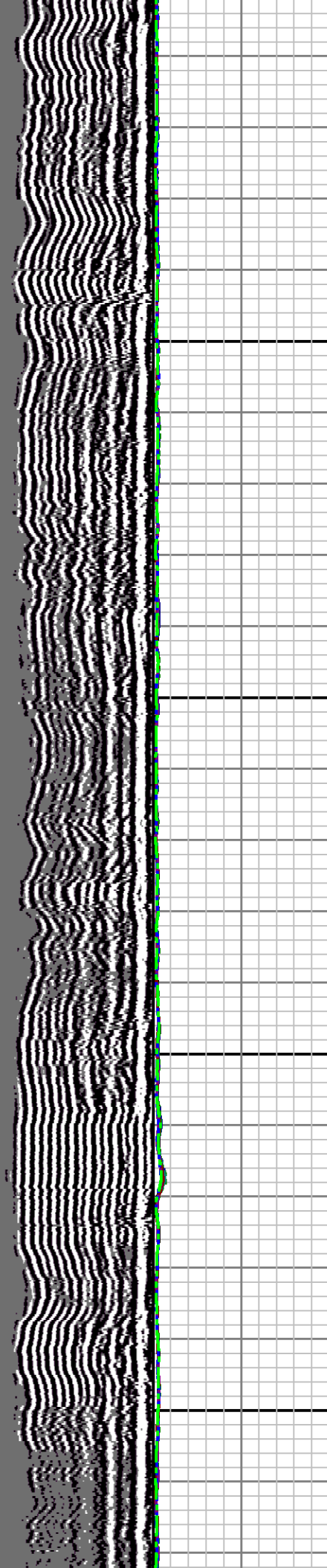


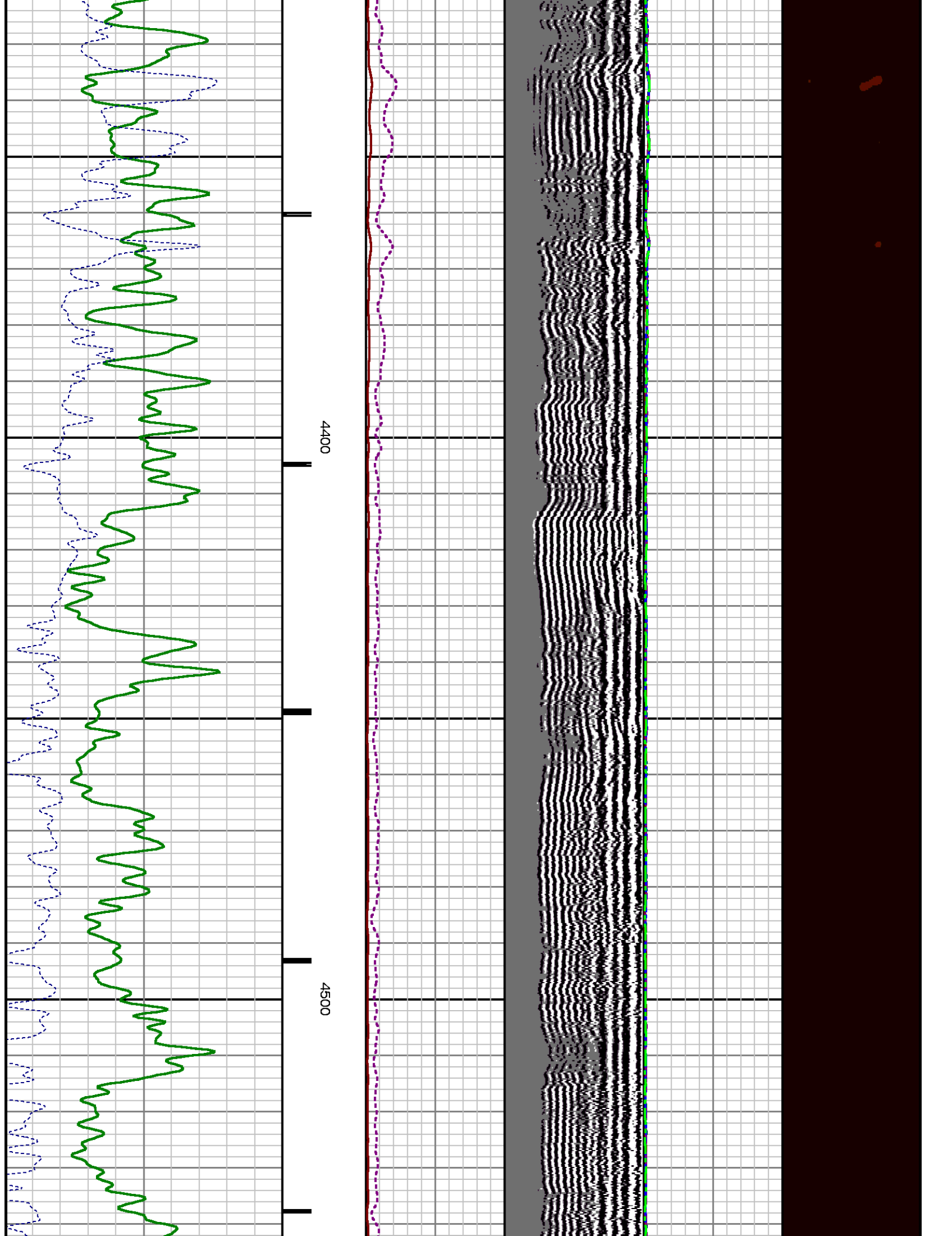
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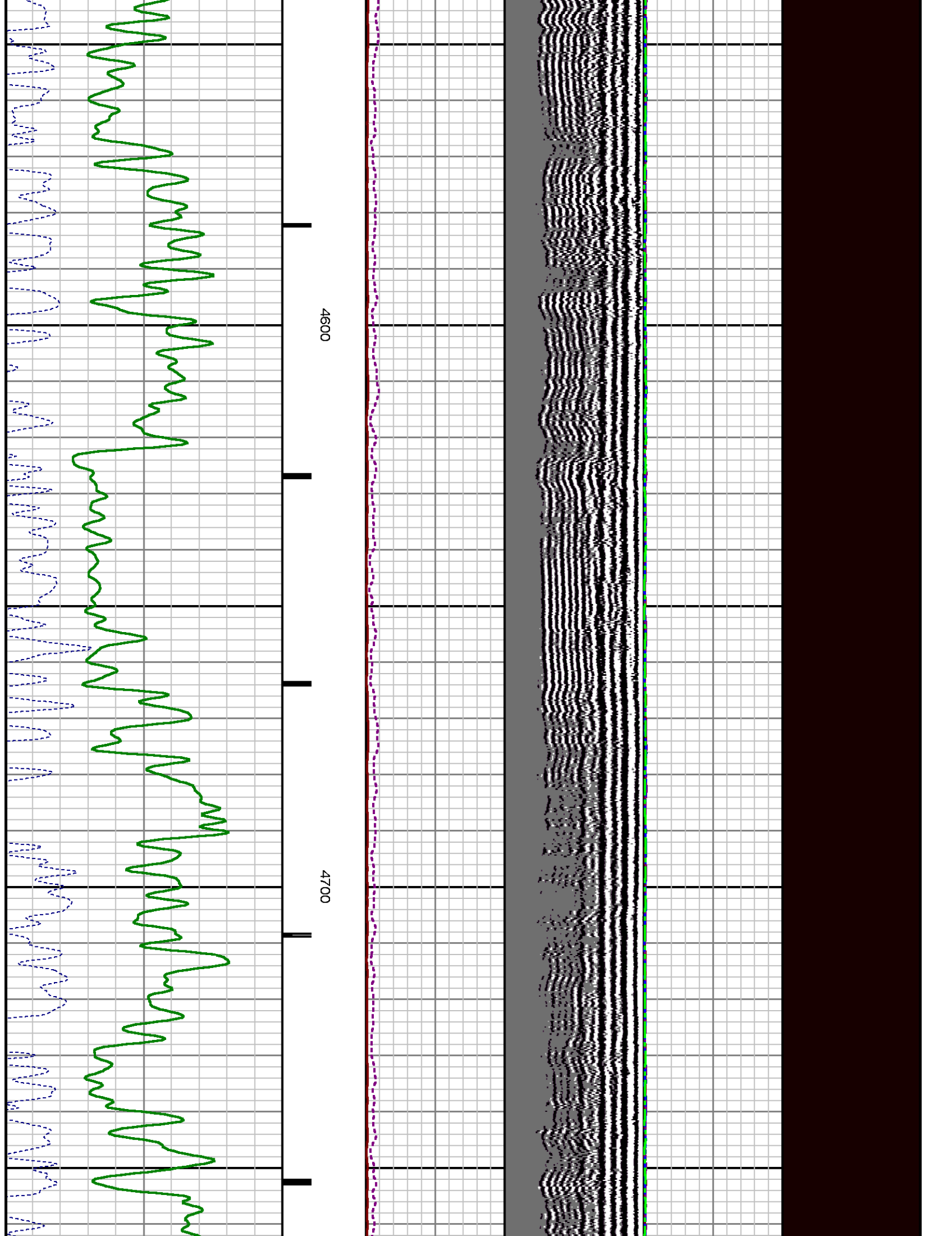
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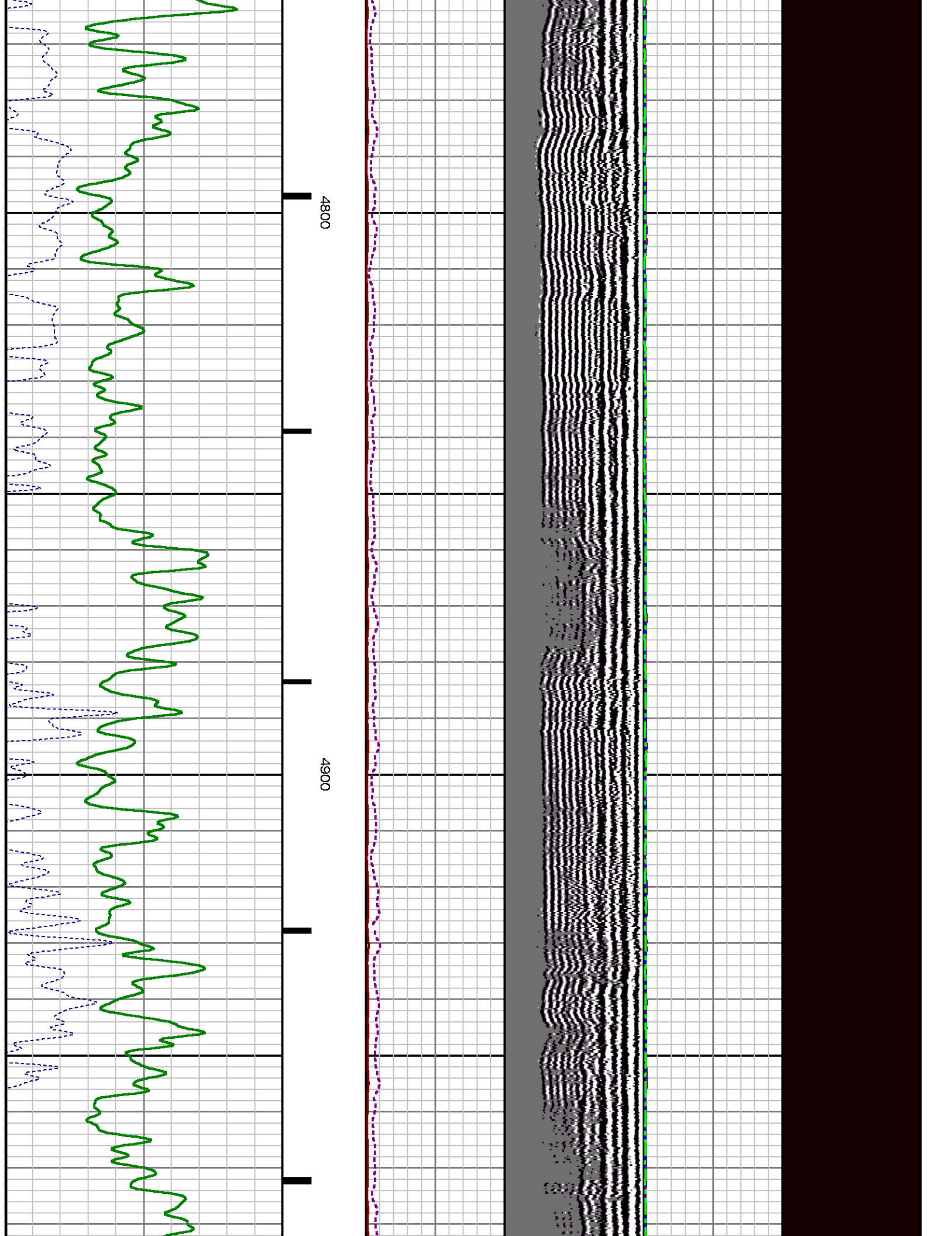
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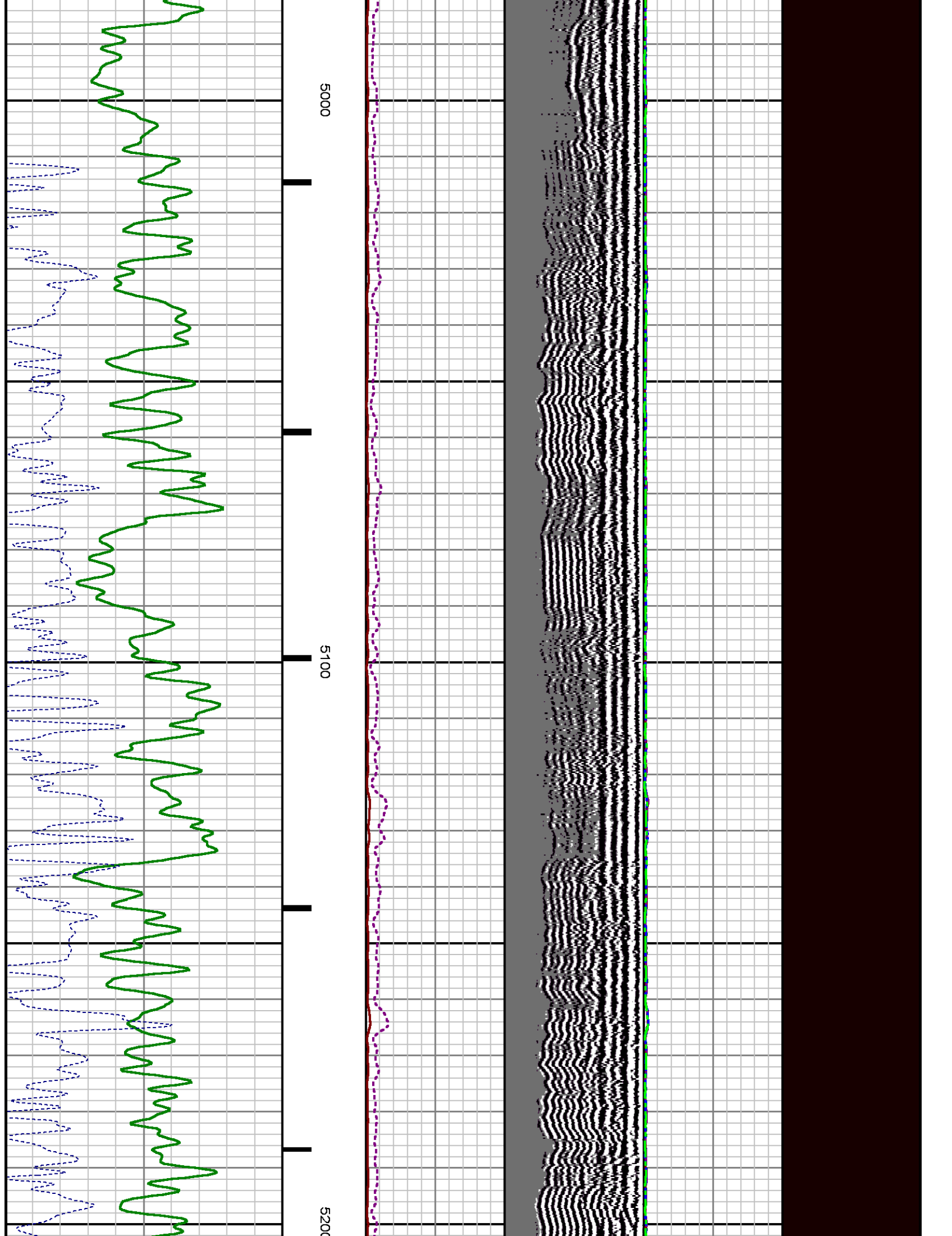


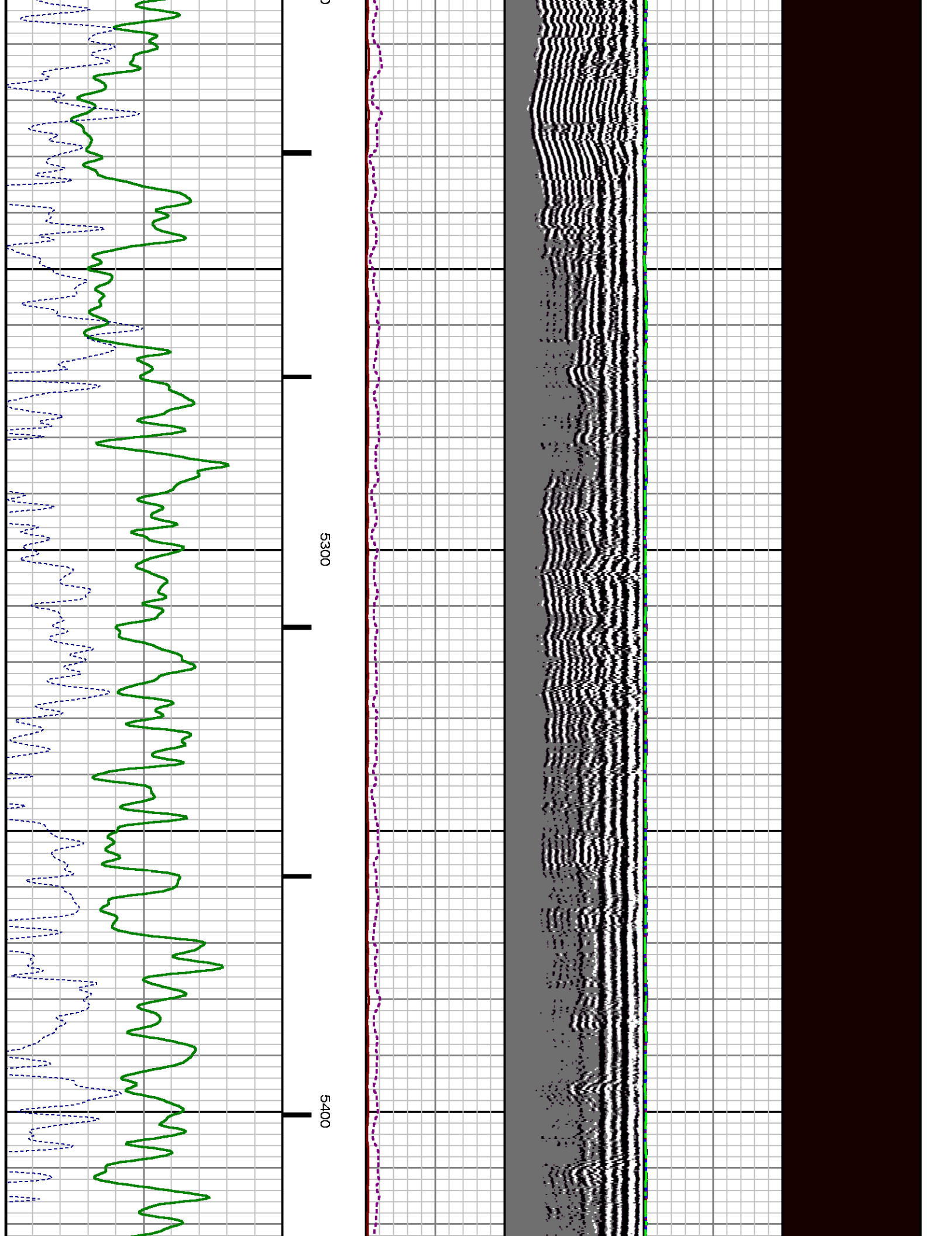


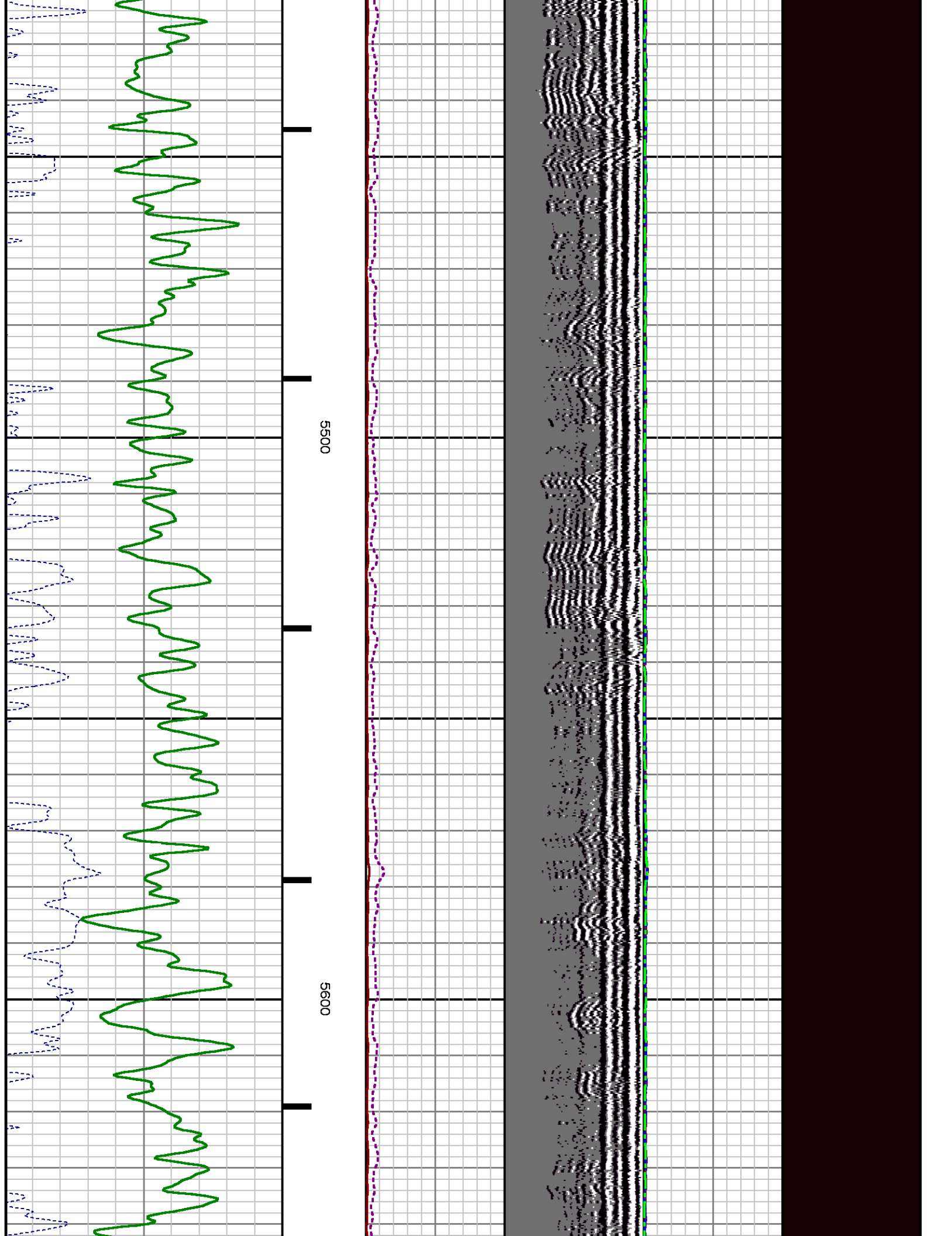


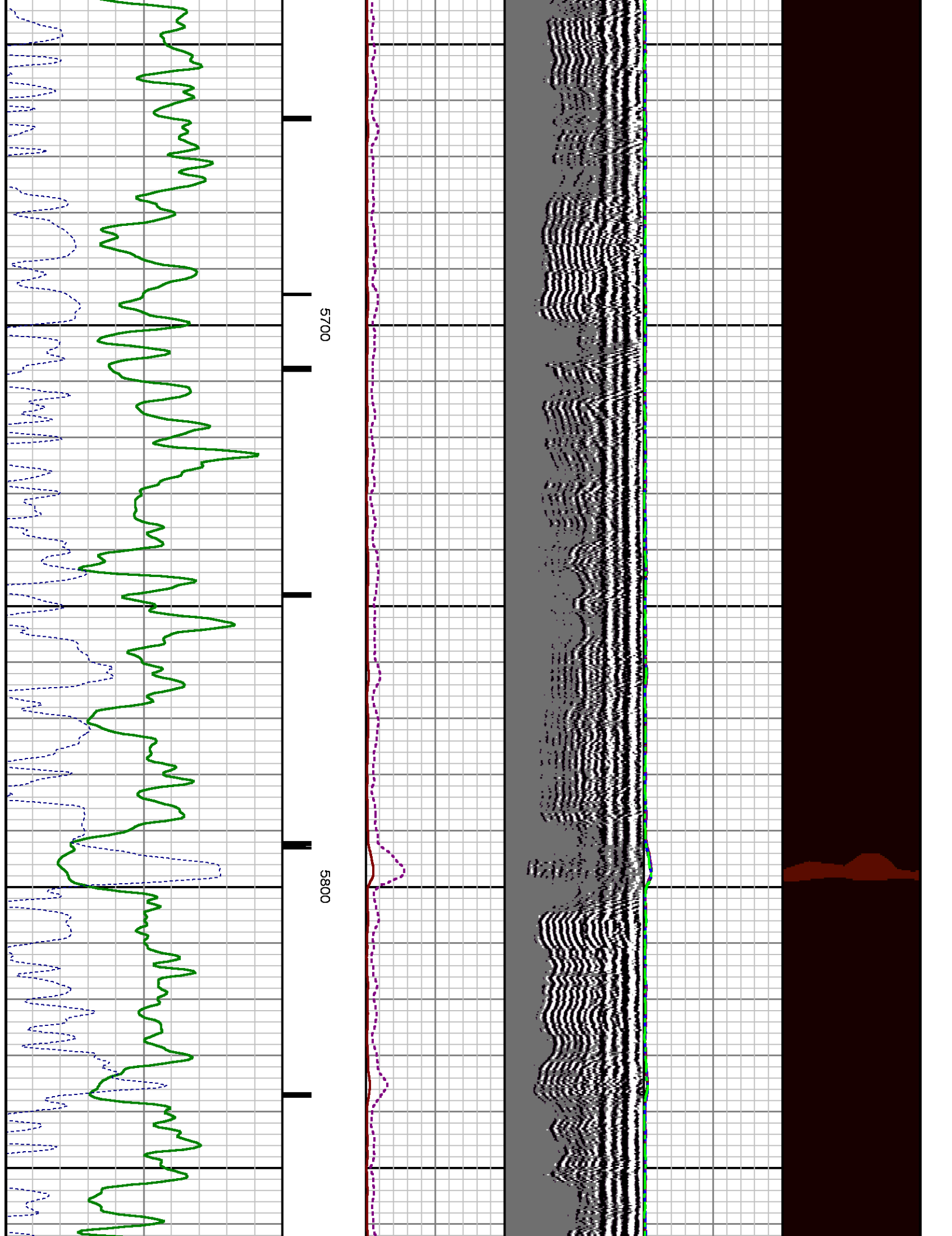


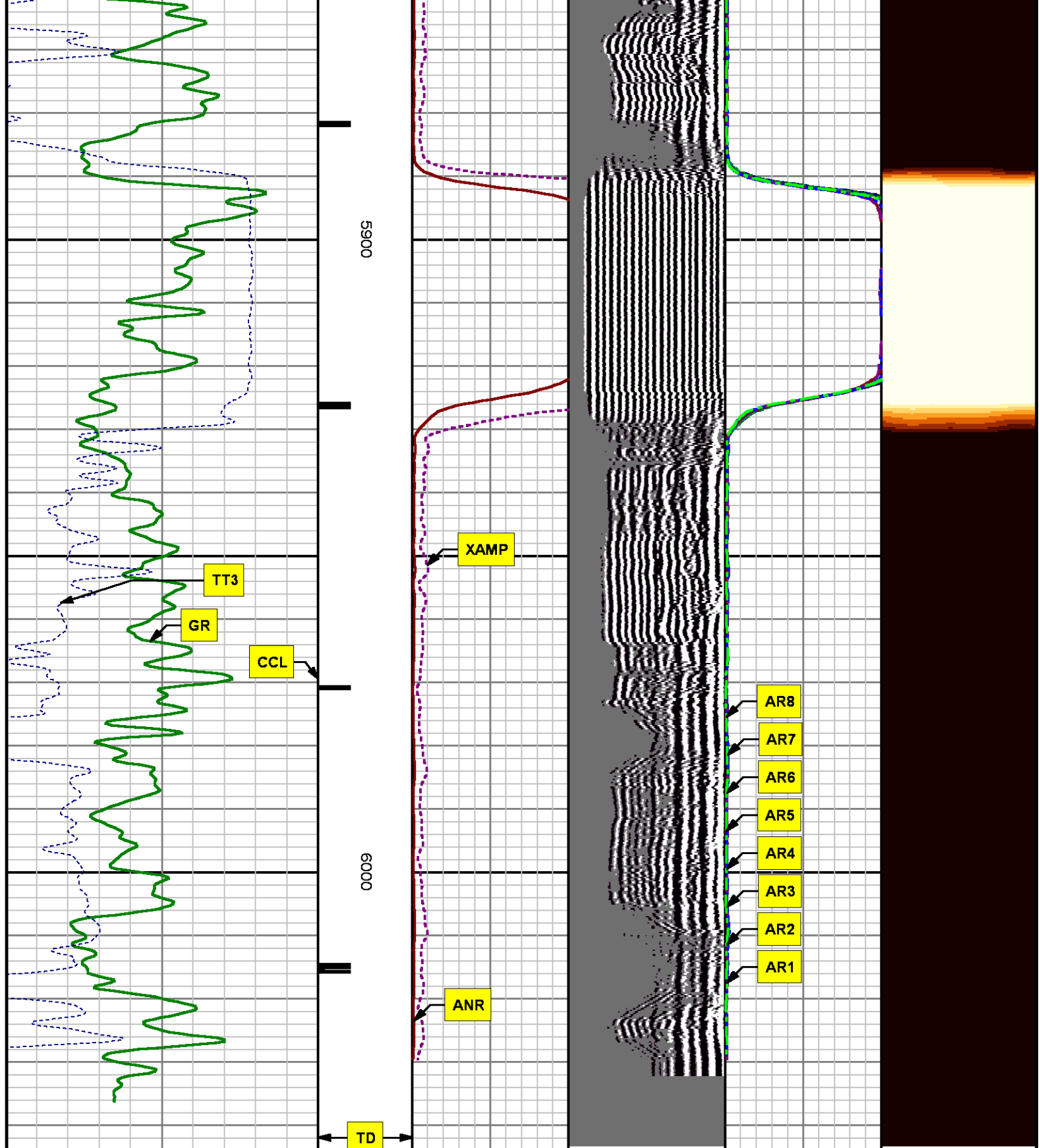












0	GR	150	CCL	MD feet 1:240	0	ANR	100	Variable Density	0	AR1	100	0	PBMAP	360
	gAPI		400			m v		200		0	AR2	100		
280	TT3	180	m v		0	XAMP	20	1200	us	0	AR3	100	80	20
	u sec					m v				0	AR4	100		
										0	AR5	100		
										0	AR6	100		

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

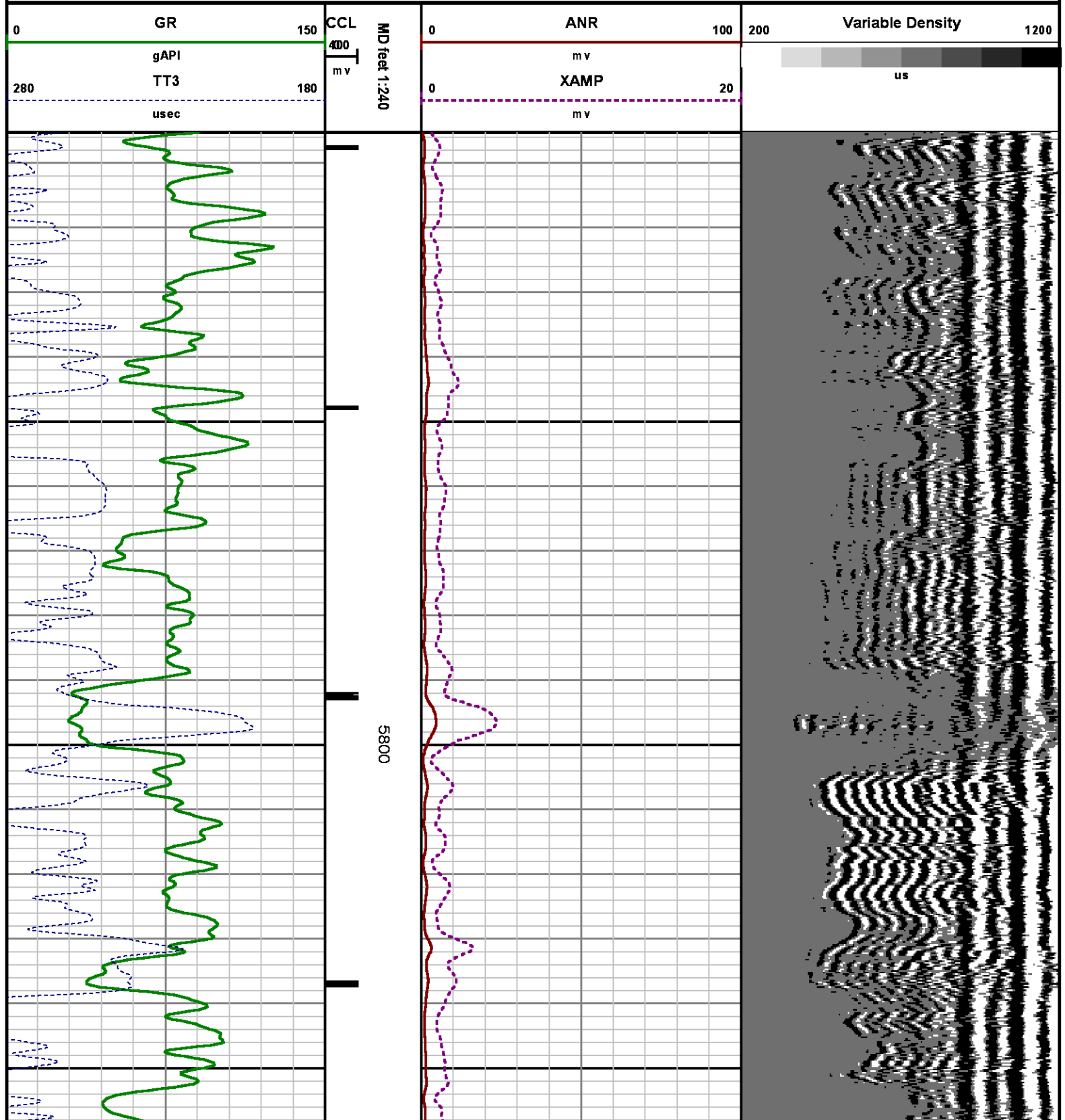
Well : C&C ENERGY GM 411-13

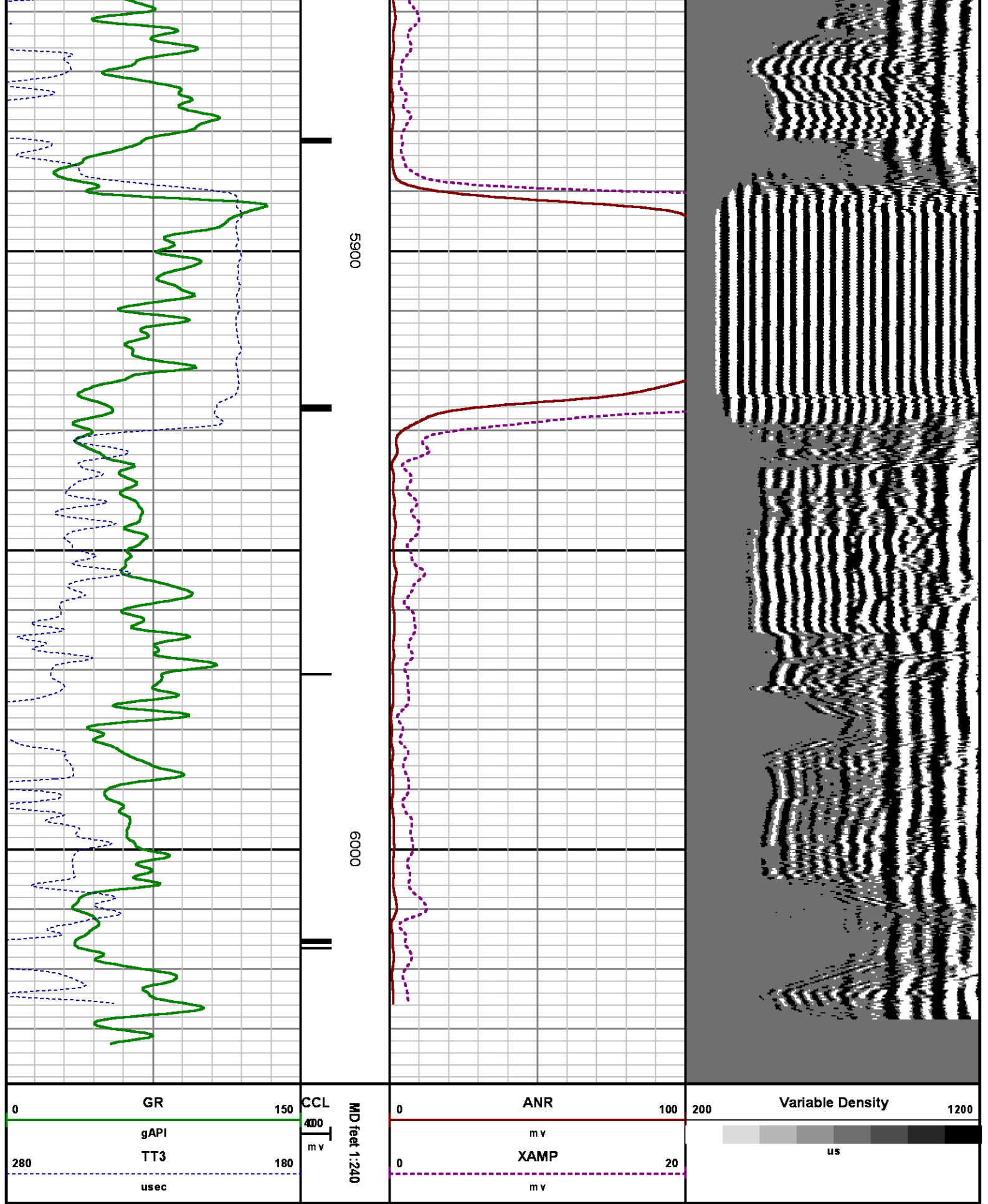
File Name : d:\well\data\wpx\gm 411-13\411ral\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 5705.26 - 6039.26 feet UP

Created : 7/20/2014 1:36:14 PM





CALIBRATION SUMMARY

RALSHP #2

Shop Calibration: C:\case\calver\RALSHP\106JY20_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:08:31 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

Tool Delay [usec] Tank OD Tank Wt Tank ID

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	<input type="text" value="219"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.186"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
3 Ft. Receiver	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.187"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
5 Ft. Receiver	<input type="text" value="326"/>	<input type="text" value="325"/>	<input type="text" value="30"/>	<input type="text" value="220"/>	<input type="text" value="25"/>	<input type="text" value="0.672"/>	<input type="text" value="150.00"/>	<input type="text" value="0.38"/>
Radial #1	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.766"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #2	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.231"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #3	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.712"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #4	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.439"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #5	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.496"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #6	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.209"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #7	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.585"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #8	<input type="text" value="219"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.232"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>

RALFLD #2

Wellsite Calibration: C:\case\calver\RALFLD\106JY20_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:10:33 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

Tool Delay [usec] Casing OD Casing Wt Casing ID

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.209"/>	<input type="text" value="0.000"/>	<input type="text" value="0.99"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-2.824"/>			
5 Ft. Receiver	<input type="text" value="305"/>	<input type="text" value="25"/>	<input type="text" value="-3.963"/>			
Radial #1	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-3.823"/>			
Radial #2	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-3.745"/>			
Radial #3	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-3.428"/>			
Radial #4	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-3.564"/>			
Radial #5	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-3.192"/>			

Radial #6	195	25	-3.354
Radial #7	195	25	-2.256
Radial #8	195	25	-2.650

GAMMA RAY #2

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

CALIBRATION SUMMARY

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

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

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

PRIMARY LOG VERIFICATION

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

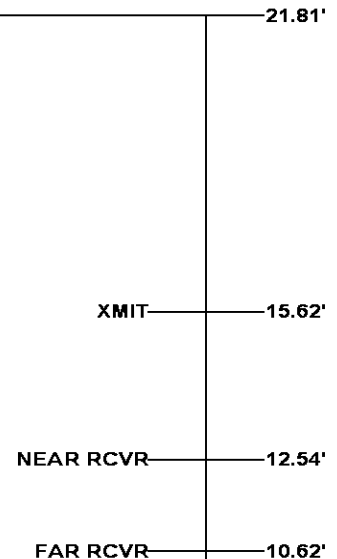
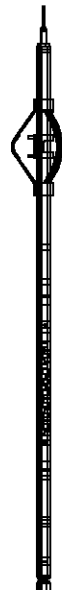
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	74.22	316.93	0.762	56.53	241.40	184.86

TOOL DIAGRAM

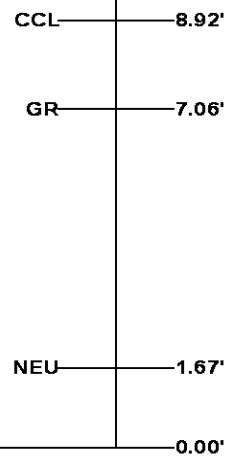
OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII



Series	1426XA
Mnemonic	PROB
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



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

 Baker Atlas	Company WPX ENERGY	File No: CH087685
	Well C&C ENERGY GM 411-13	API No: 05045222630000
	Field GRAND VALLEY	API No: 05045222630000
	County GARFIELD State COLORADO	
	Location SHL: 280' FSL & 994' FWL (SEC 12) BHT: 898' FNL & 823' FWL (SWNW SEC 13)	Elevations KB 5165 ft DF GL 5141 ft
SEC 13 TWP 7S RGE 96W		