



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH074113	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 521-11 PARACHUTE GARFIELD	State COLORADO
API No: 05045218190000			
11 75 95W PA 22-11 CYCLONE 17	Location SHL: 2414' FNL & 2089' FNL SEC:11 BHL: 1143' FNL & 2089' FNL SEC:11 SEC 11 TWP 7S RGE 95W	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 6274 ft K.B. _____ 22 ft Above P. D. KELLY BUSHING	Elevations KB 6296 ft DF GL 6274 ft	

Date	02/JUL/13	
Run	ONE	
Service Order	B24A34	
Depth Driller	7906 ft	
Depth Logger	7884 ft	
Bottom Logged Interval	7874 ft	
Top Logged Interval	22 ft	
Time Started	7:00	
Time Finished	11:00	
Operator Rig Time	4 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	86 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	217 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	W. KINSEL	9721
Witnessed By	MR. DUSTIN WELSH	GRAND JUNCTION

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
13.5 In	0 ft	903 ft
8.75 In	0 ft	8031 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	N/A	N/A	0 ft	898 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	7906 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH THE TOP CCL MARK WITH KB LEVEL
AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 9 FEET DOWN.
SHORT JOINT: 4304' - 4329'
BHT: 217 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10163028	CENTRALIZED
1	1	GAMMA RAY/CCL	1355XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.458	usec	34.093	7905.000
RAL	Amp Gate Start Near	199.599	usec	34.093	7905.000
RAL	Amp Gate Start Radial	199.599	usec	34.093	7905.000
RAL	Amp Gate Width Far	25.000	usec	34.093	7905.000
RAL	Amp Gate Width Near	25.000	usec	34.093	7905.000
RAL	Amp Gate Width Radial	25.000	usec	34.093	7905.000
RAL	casing od	4.500	inches	34.093	7905.000
RAL	casing wt	11.600	lbm/ft	34.093	7905.000
RAL	FB Start Far	291.900	usec	34.093	7905.000
RAL	FB Start Near	175.391	usec	34.093	7905.000
RAL	FB Start Radial	175.391	usec	34.093	7905.000
RAL	FB Thresh Far	10.000	mv	34.093	7905.000
RAL	FB Thresh Near	4.000	mv	34.093	7905.000
RAL	FB Thresh Radial	4.000	mv	34.093	7905.000
RAL	Fluid Travel Time	200.000	usec/ft	34.093	7904.937

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

1426XA -10.040
1355XA -5.620
1355XA -1.500
1355XA 0.000

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

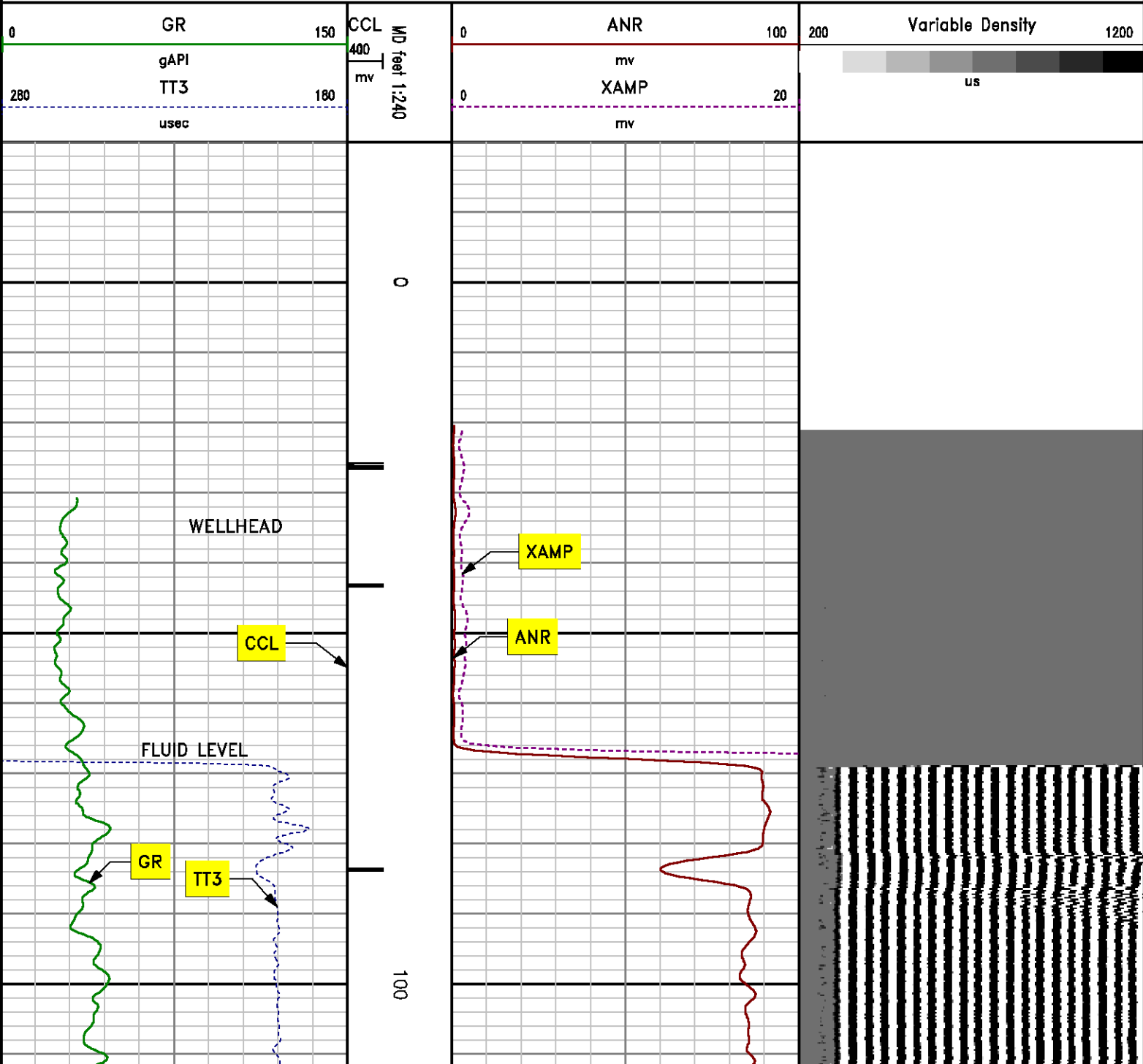
Well : GOLDSBOROUGH PA 521-11

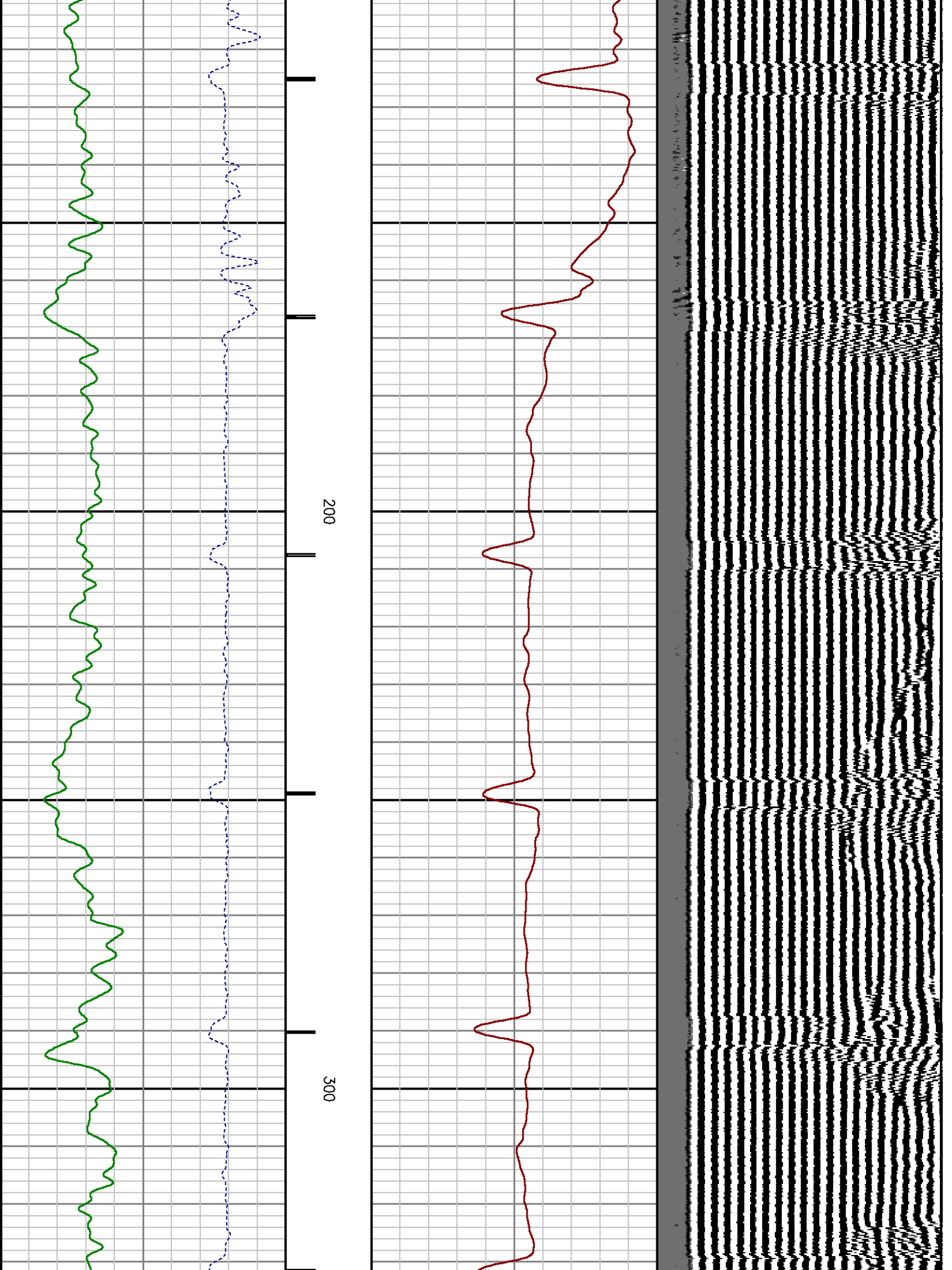
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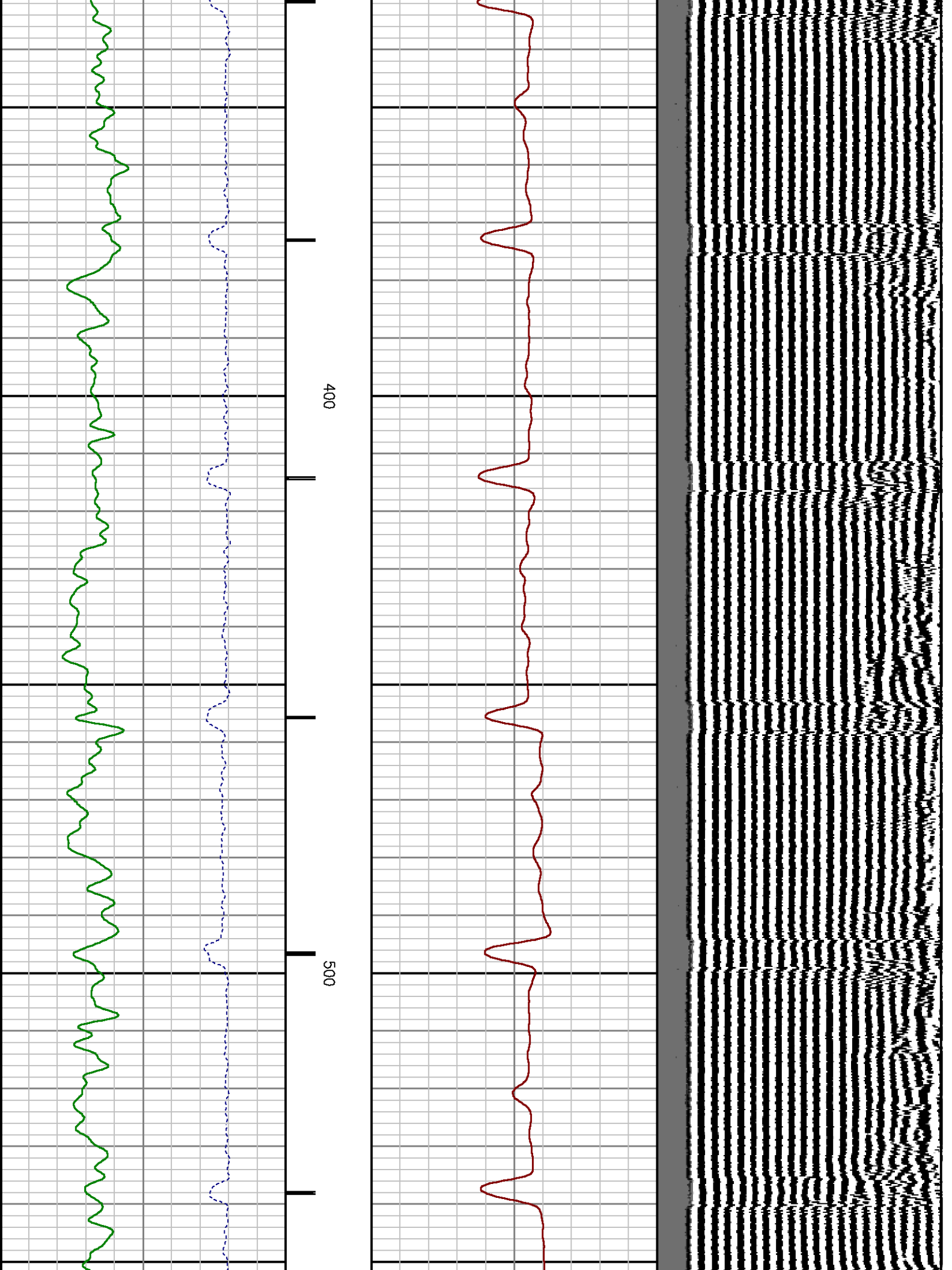
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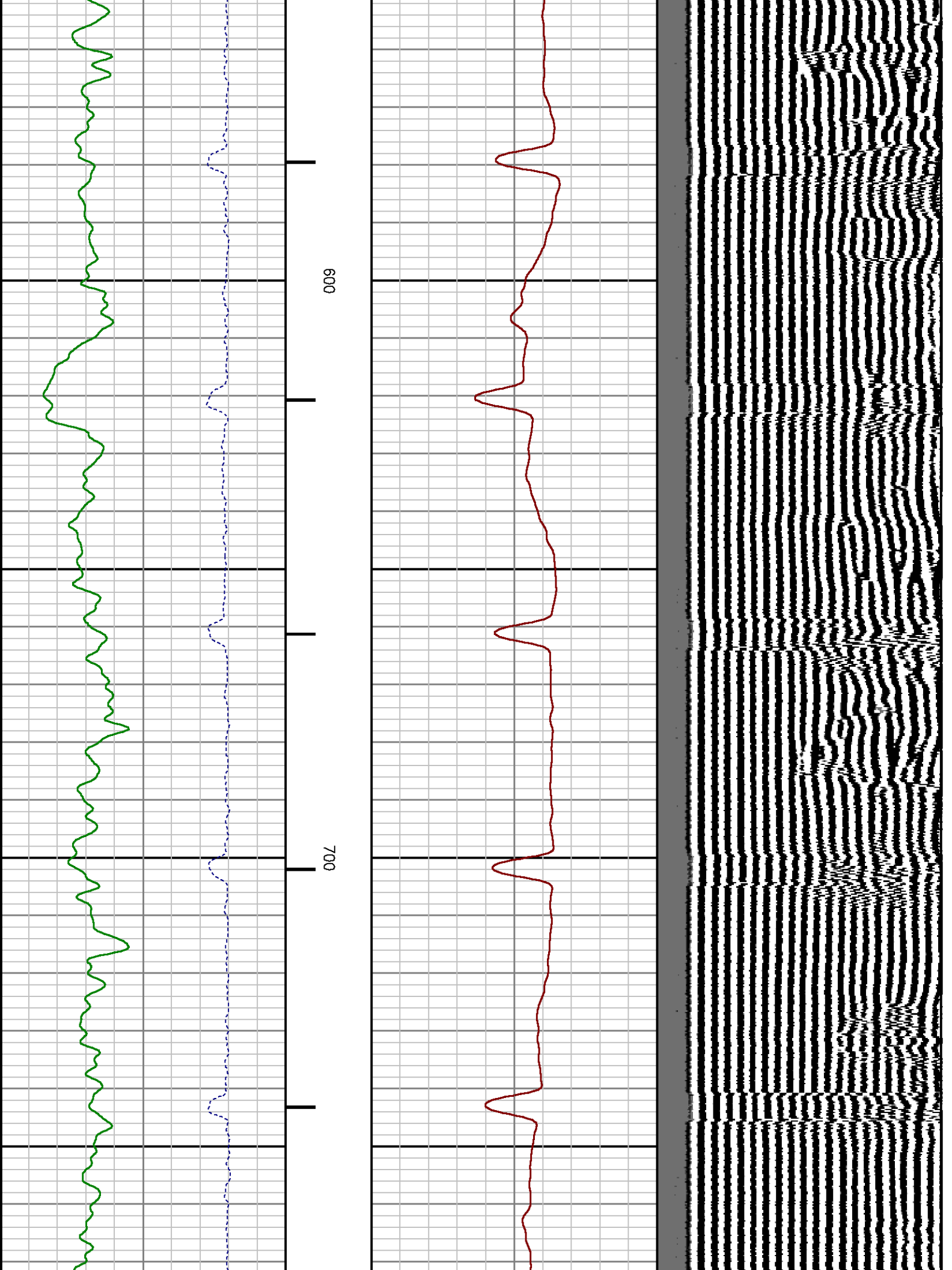
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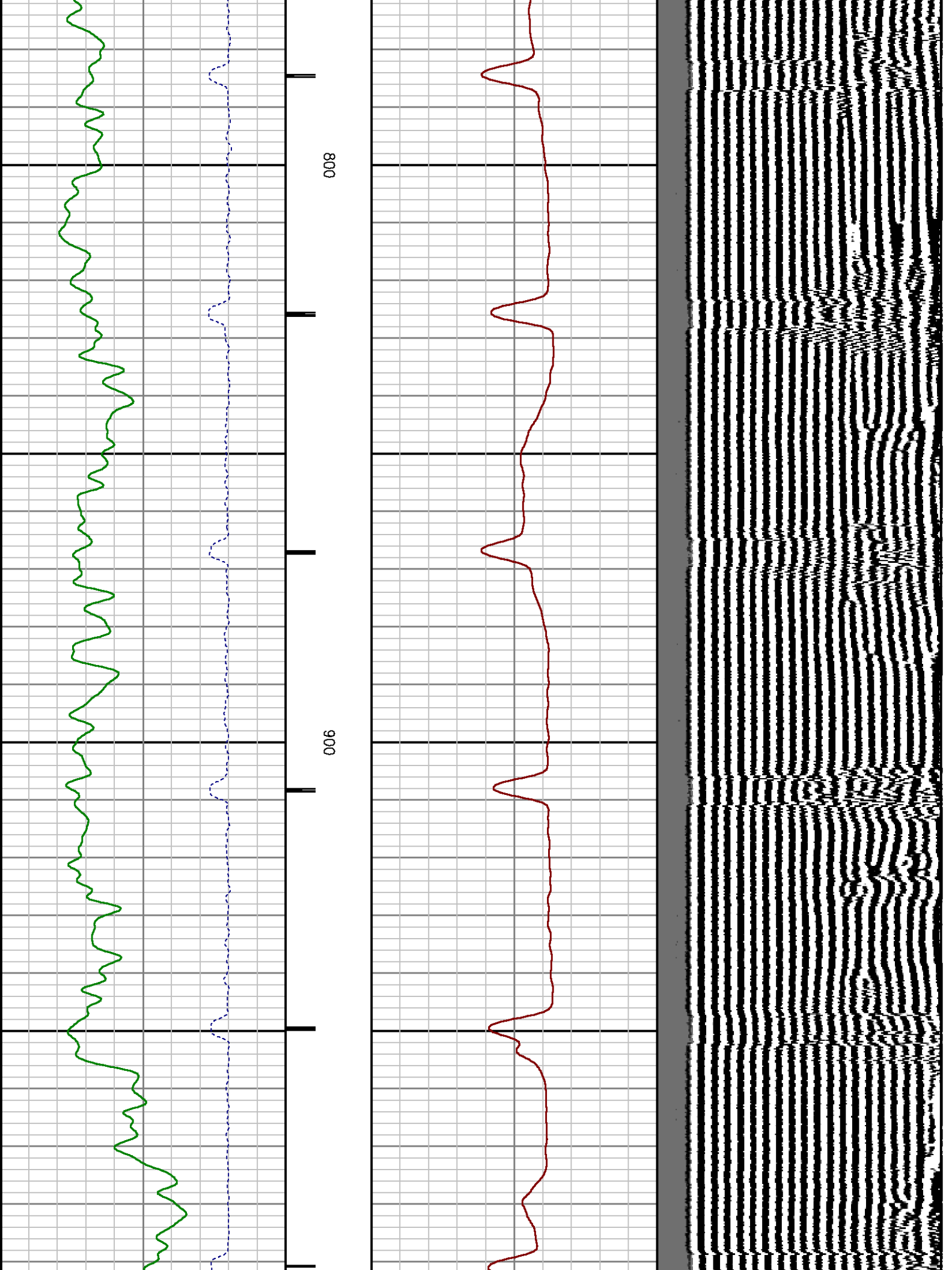
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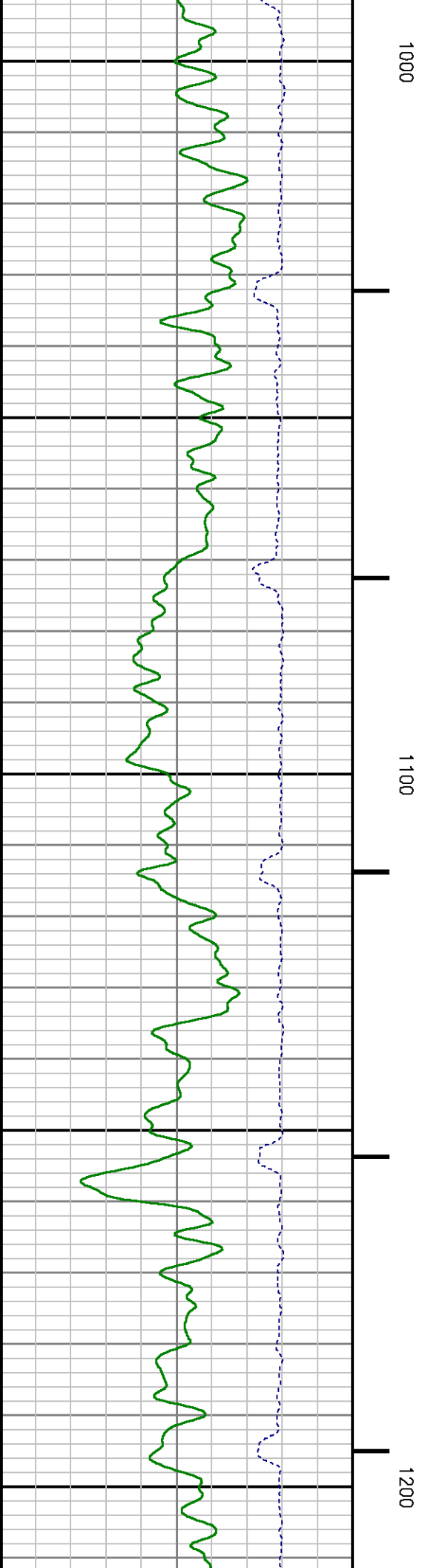
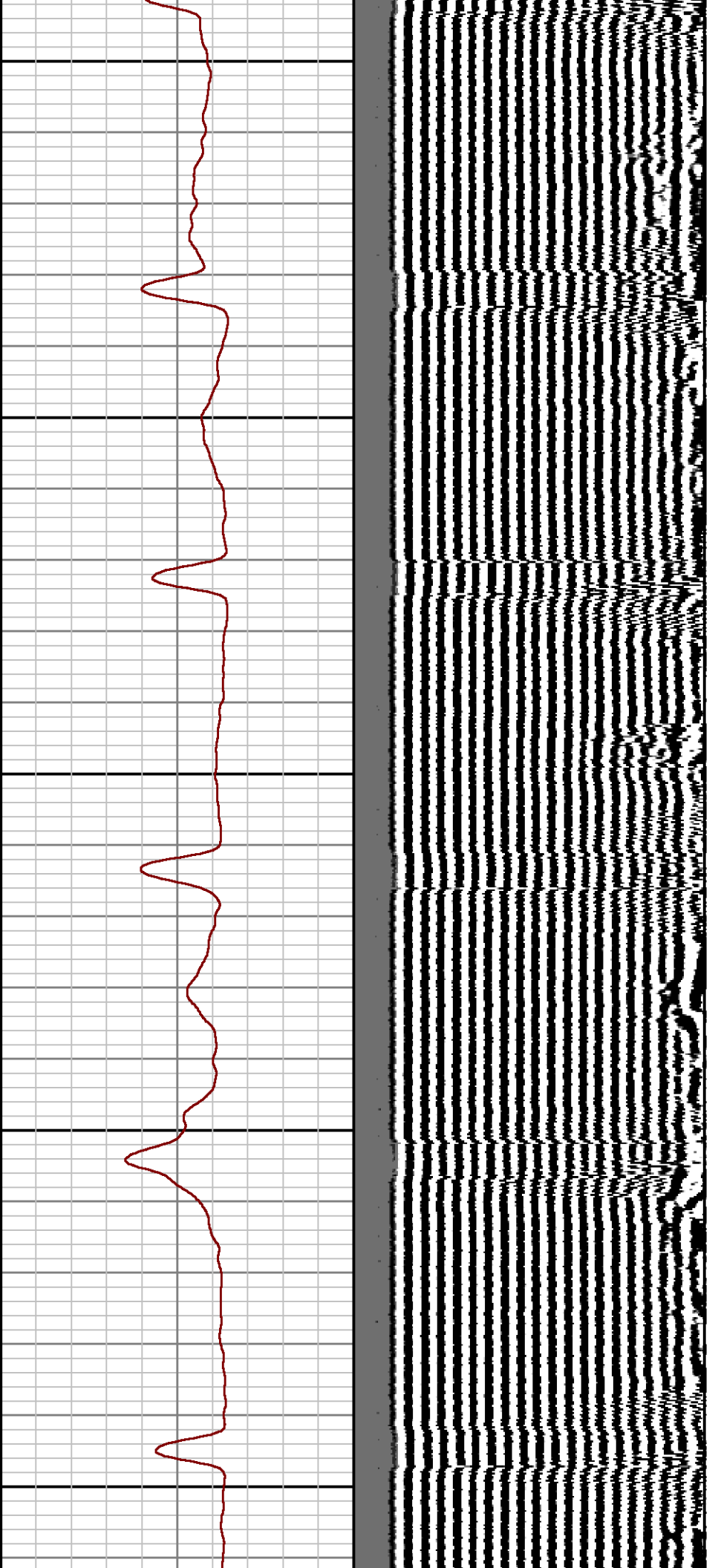


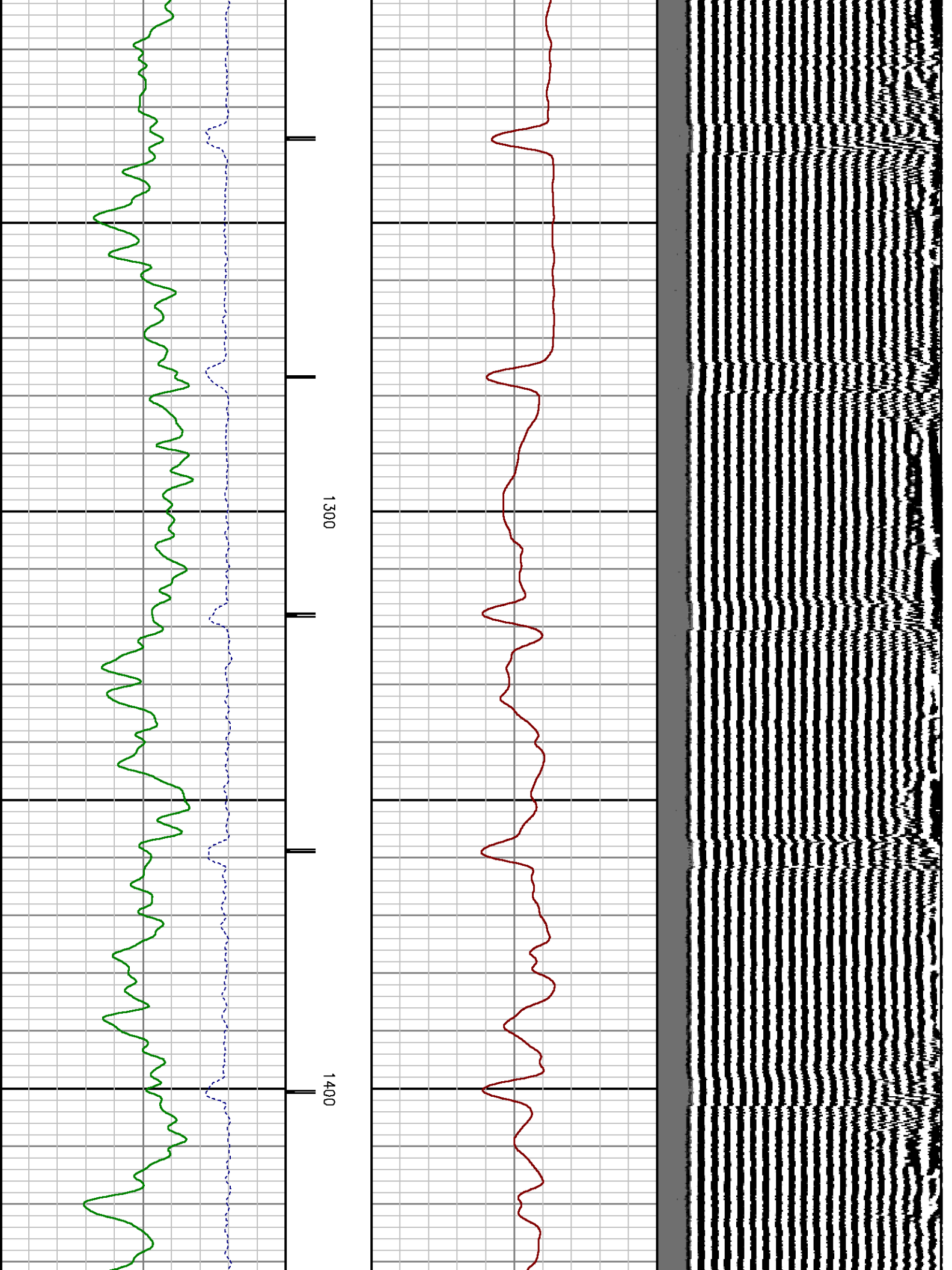


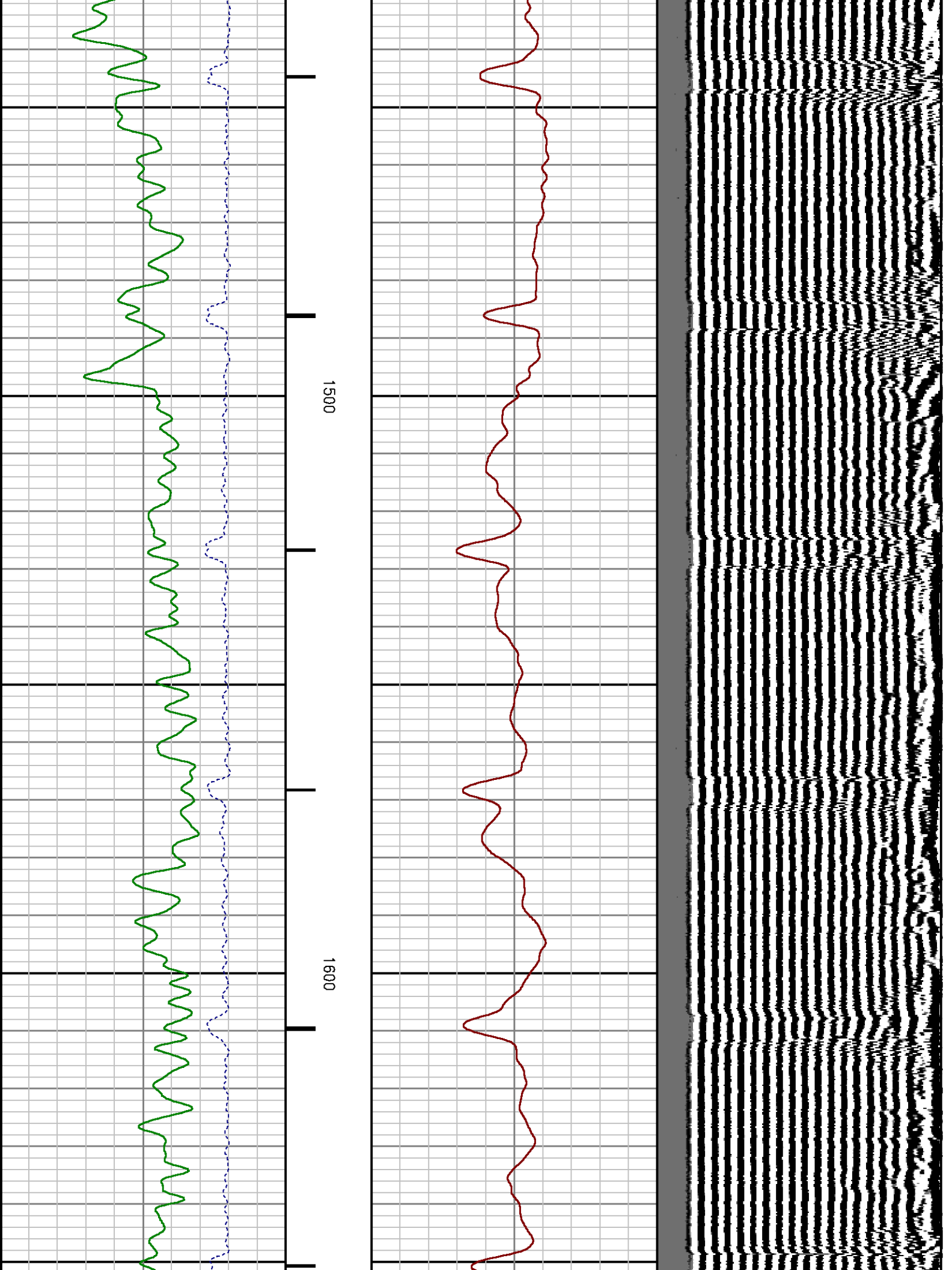


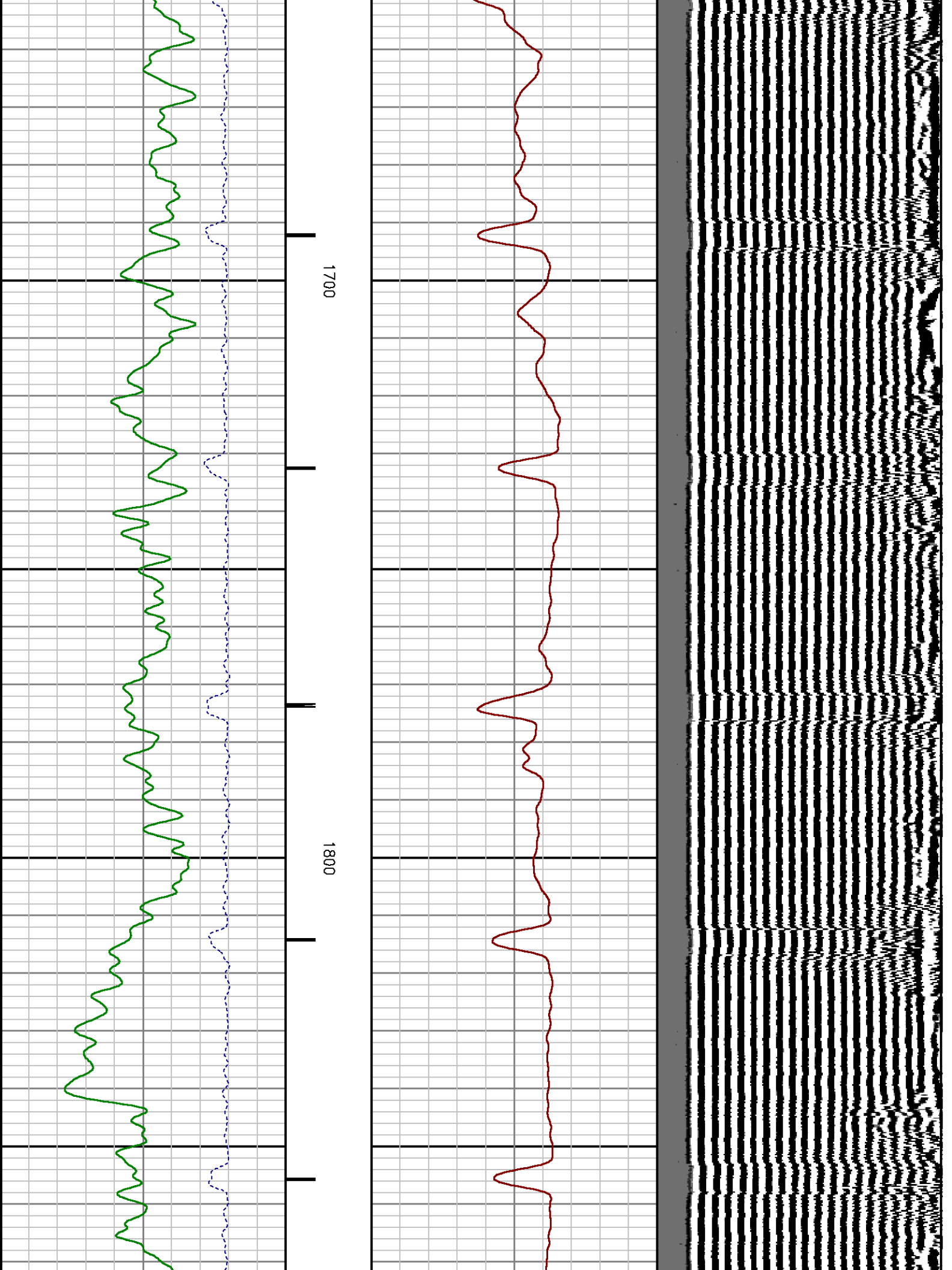


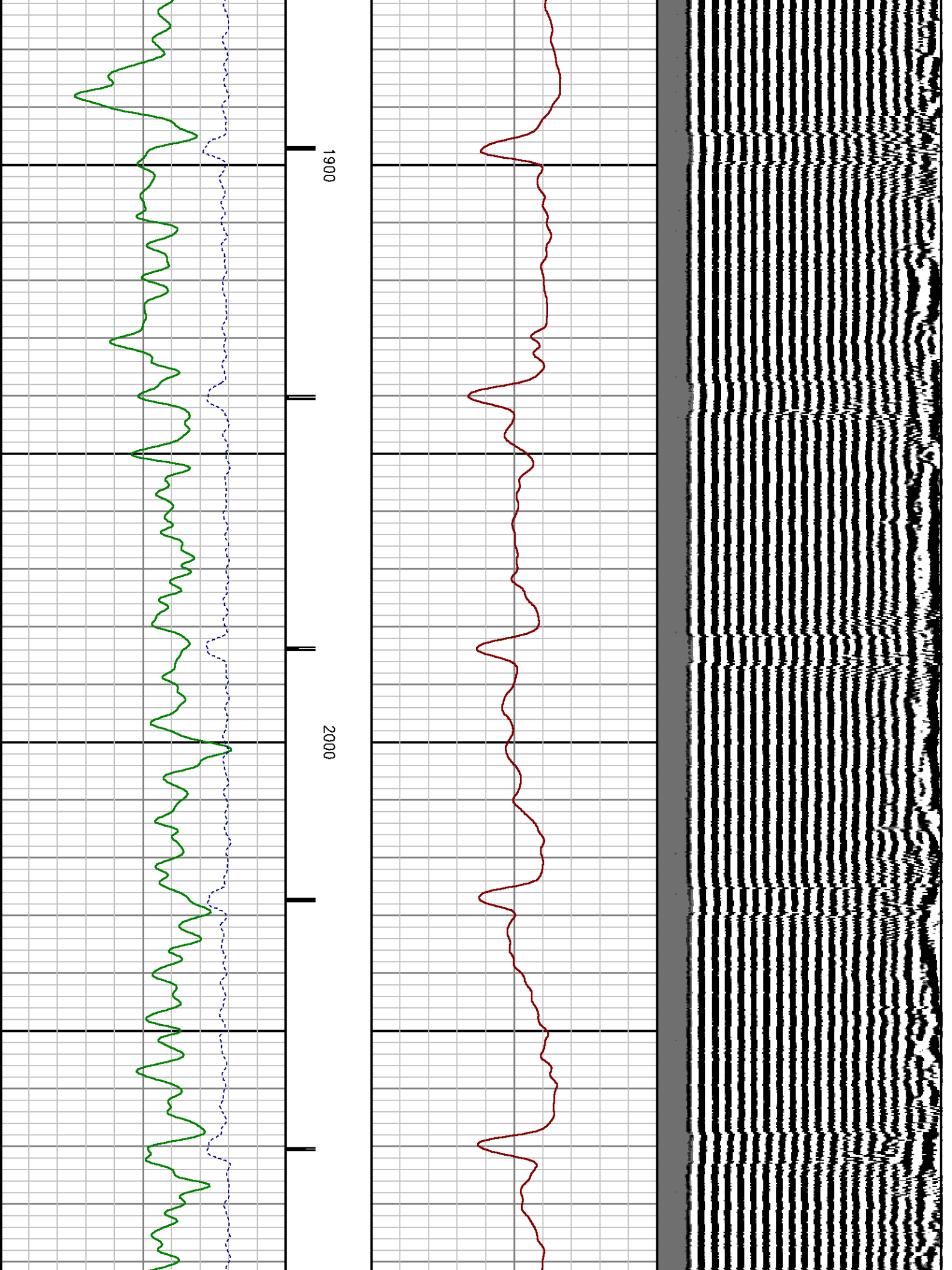


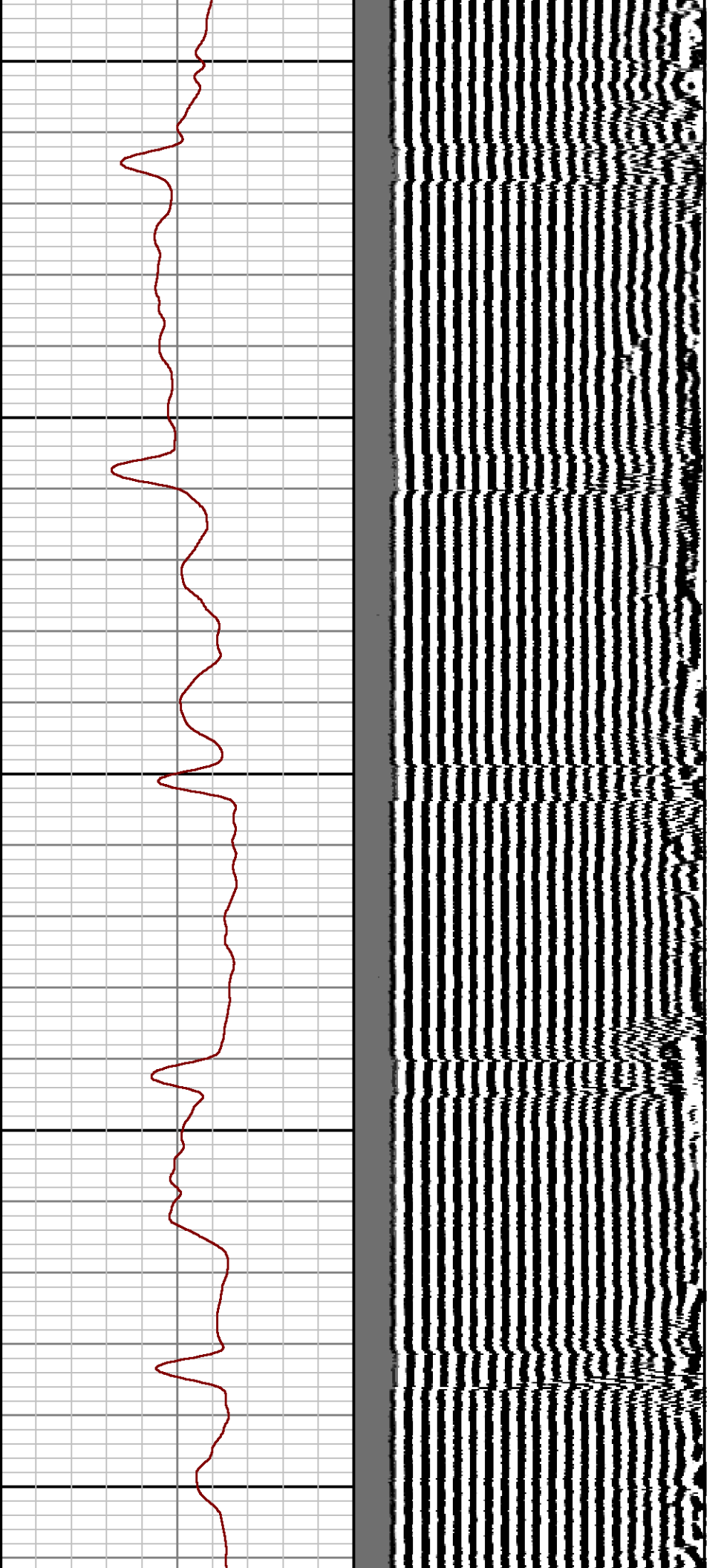








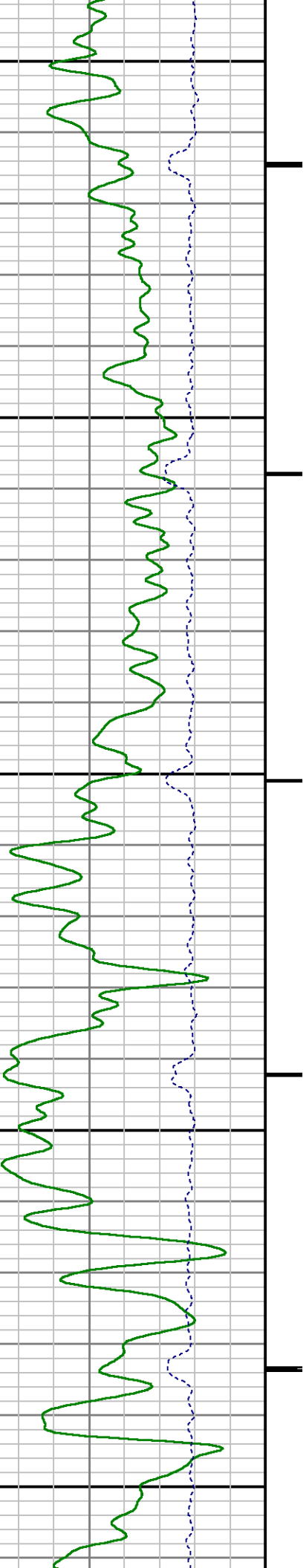


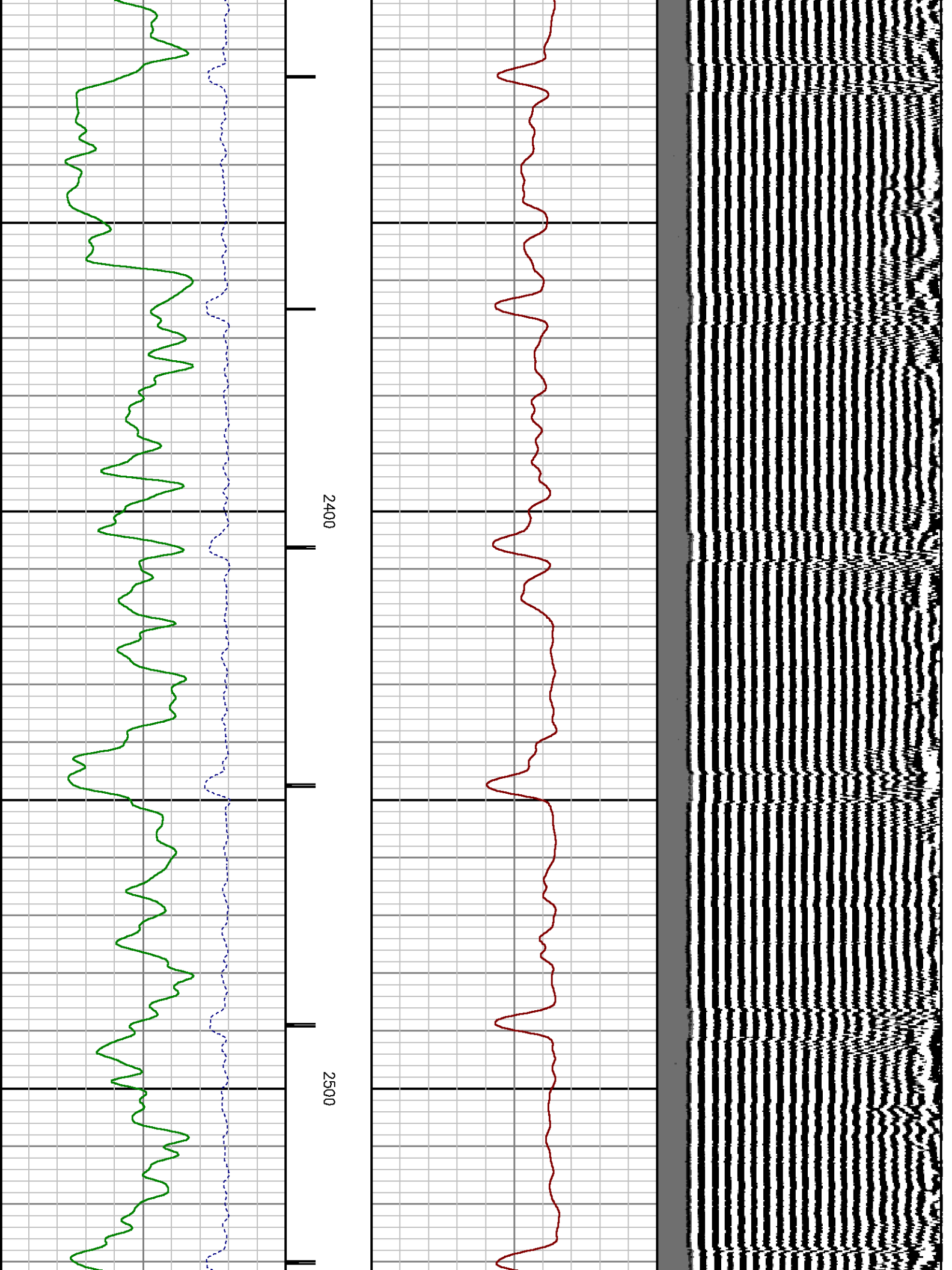


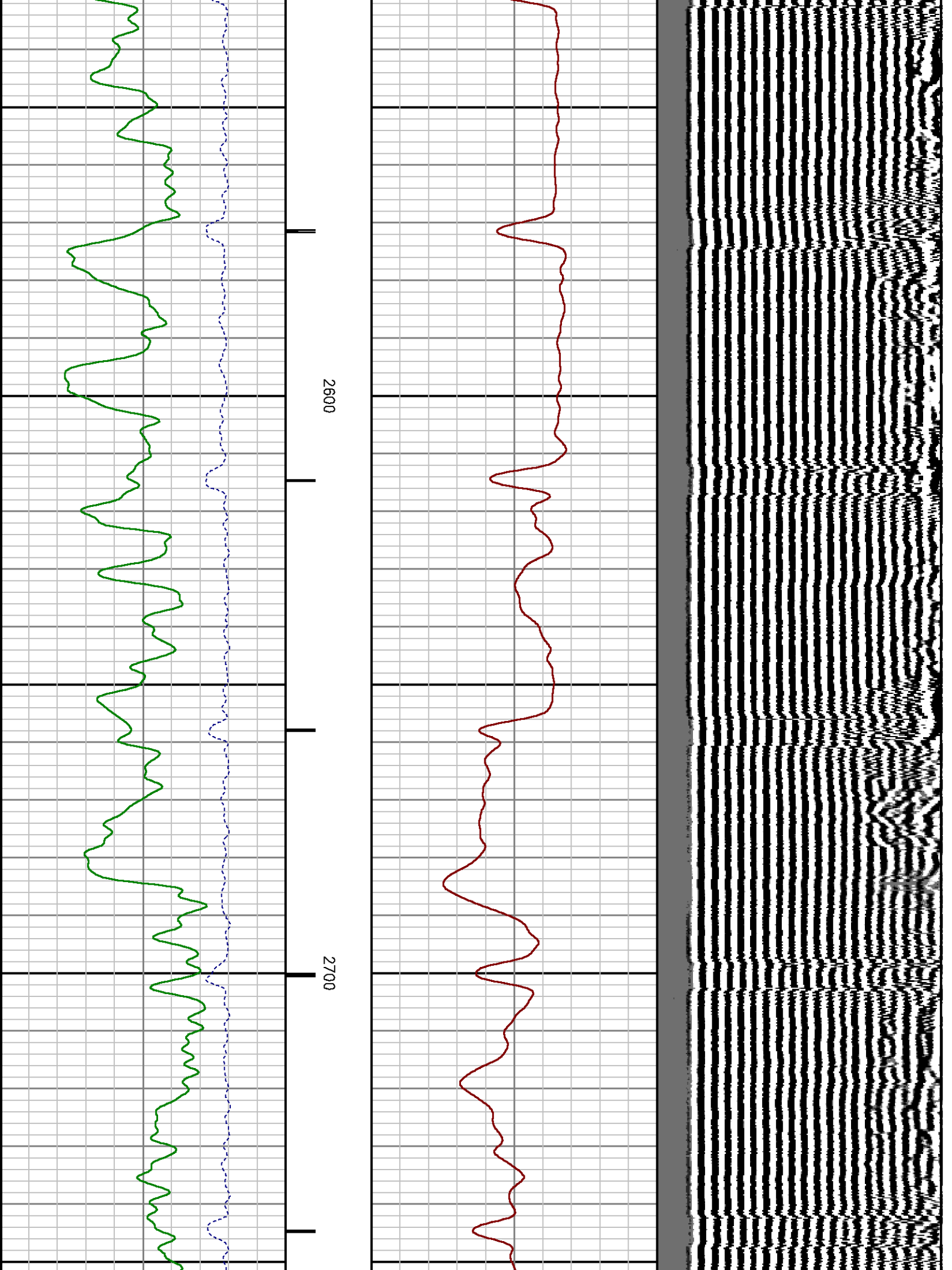
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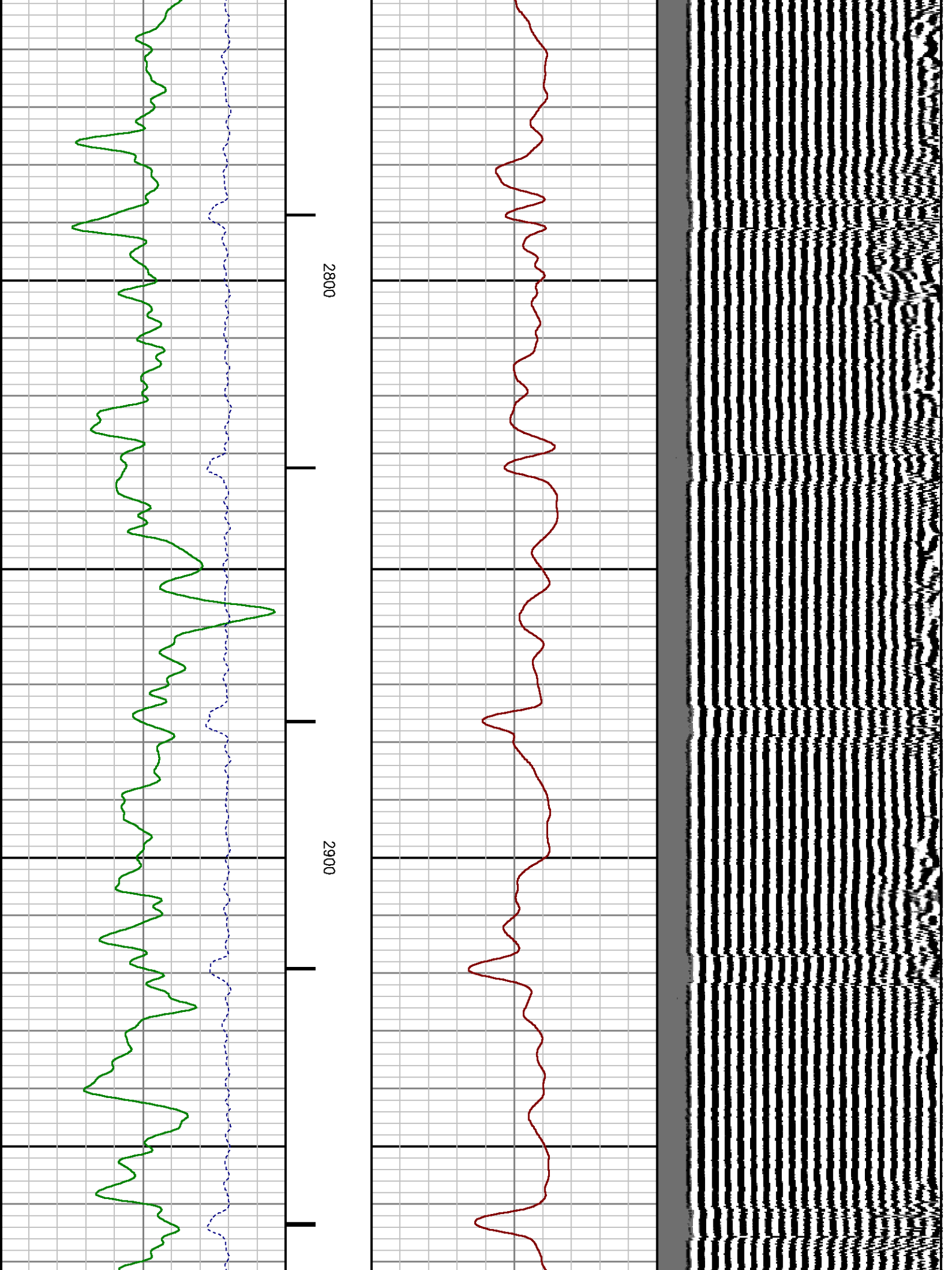
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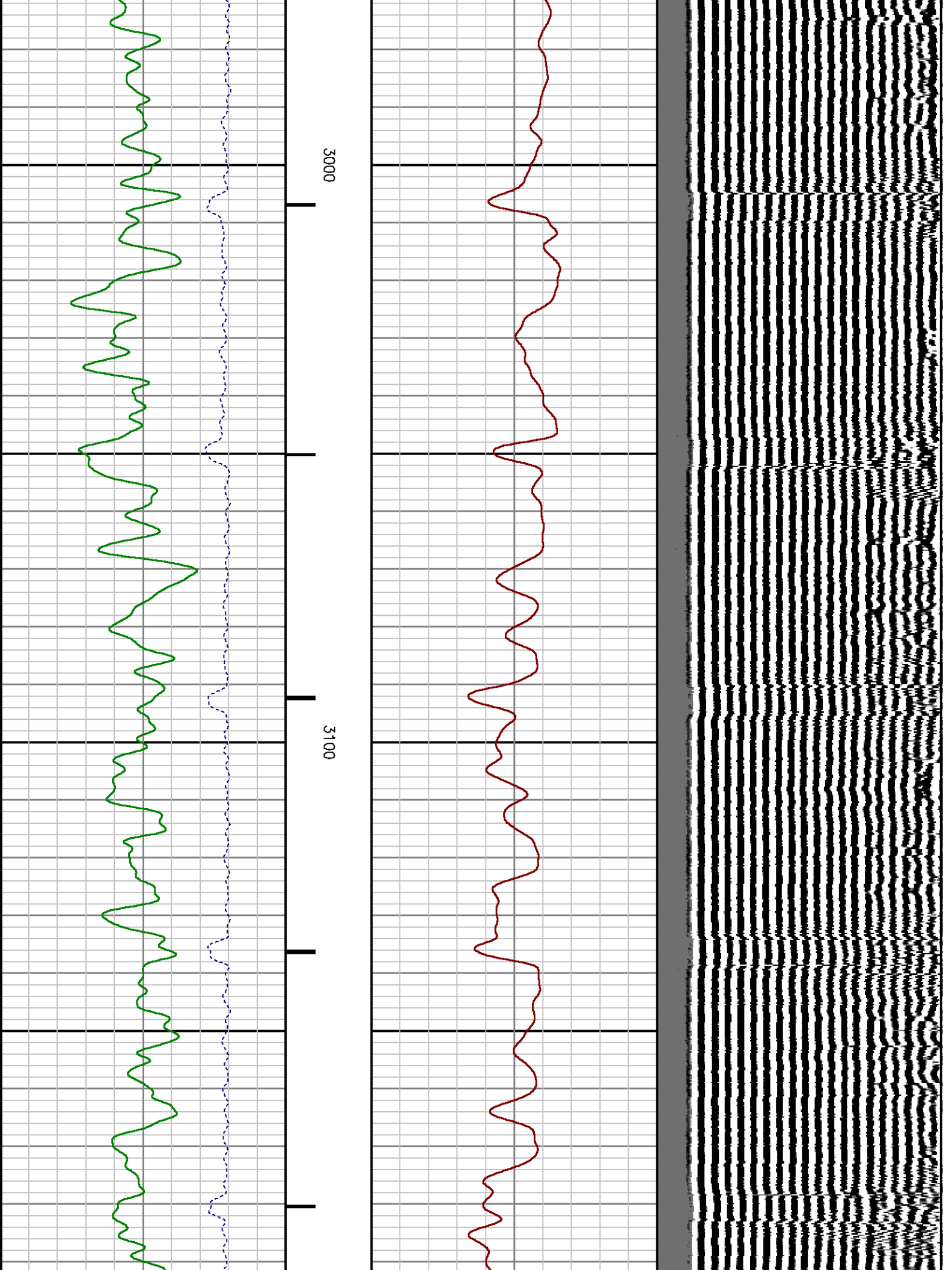
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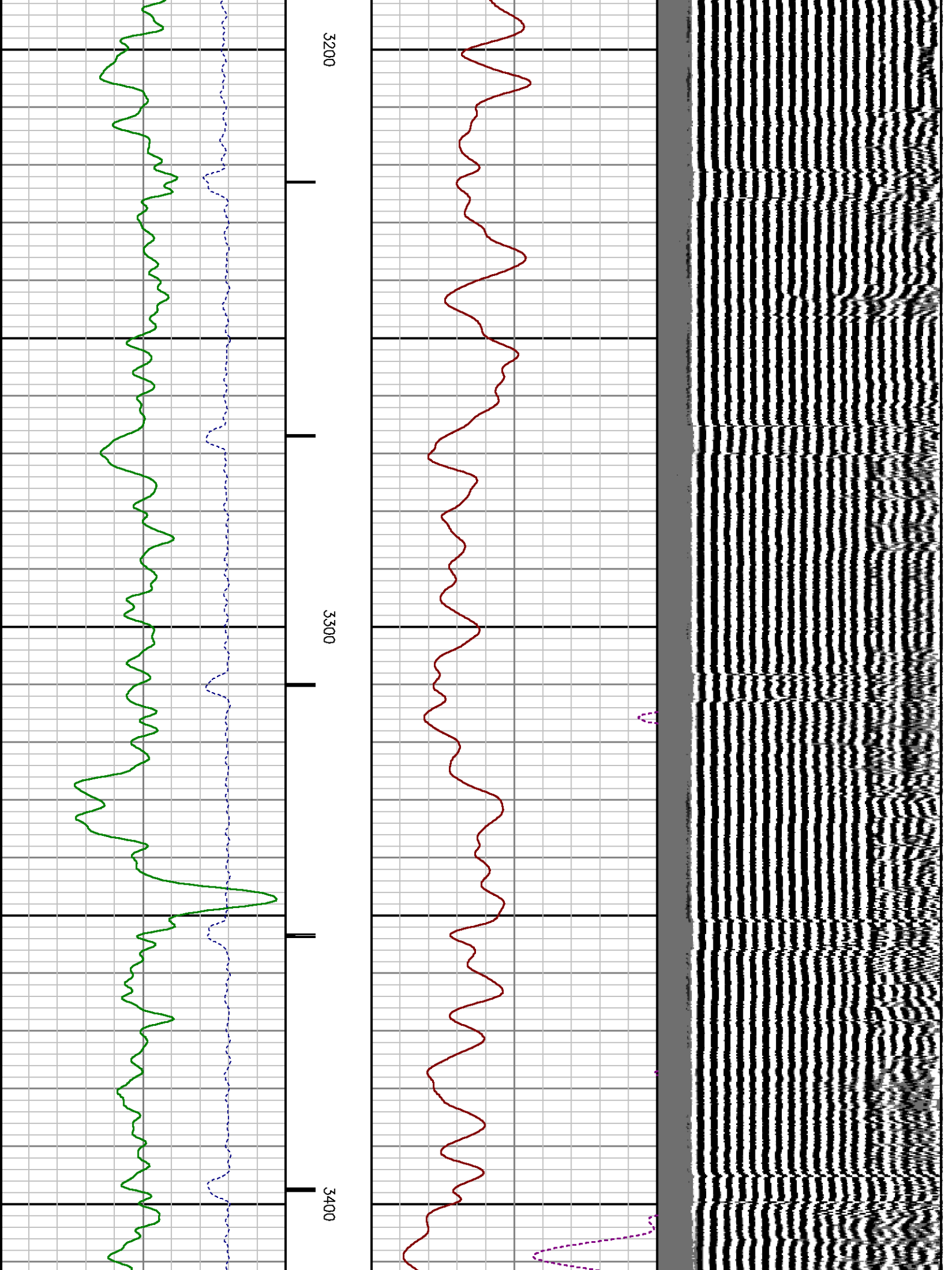


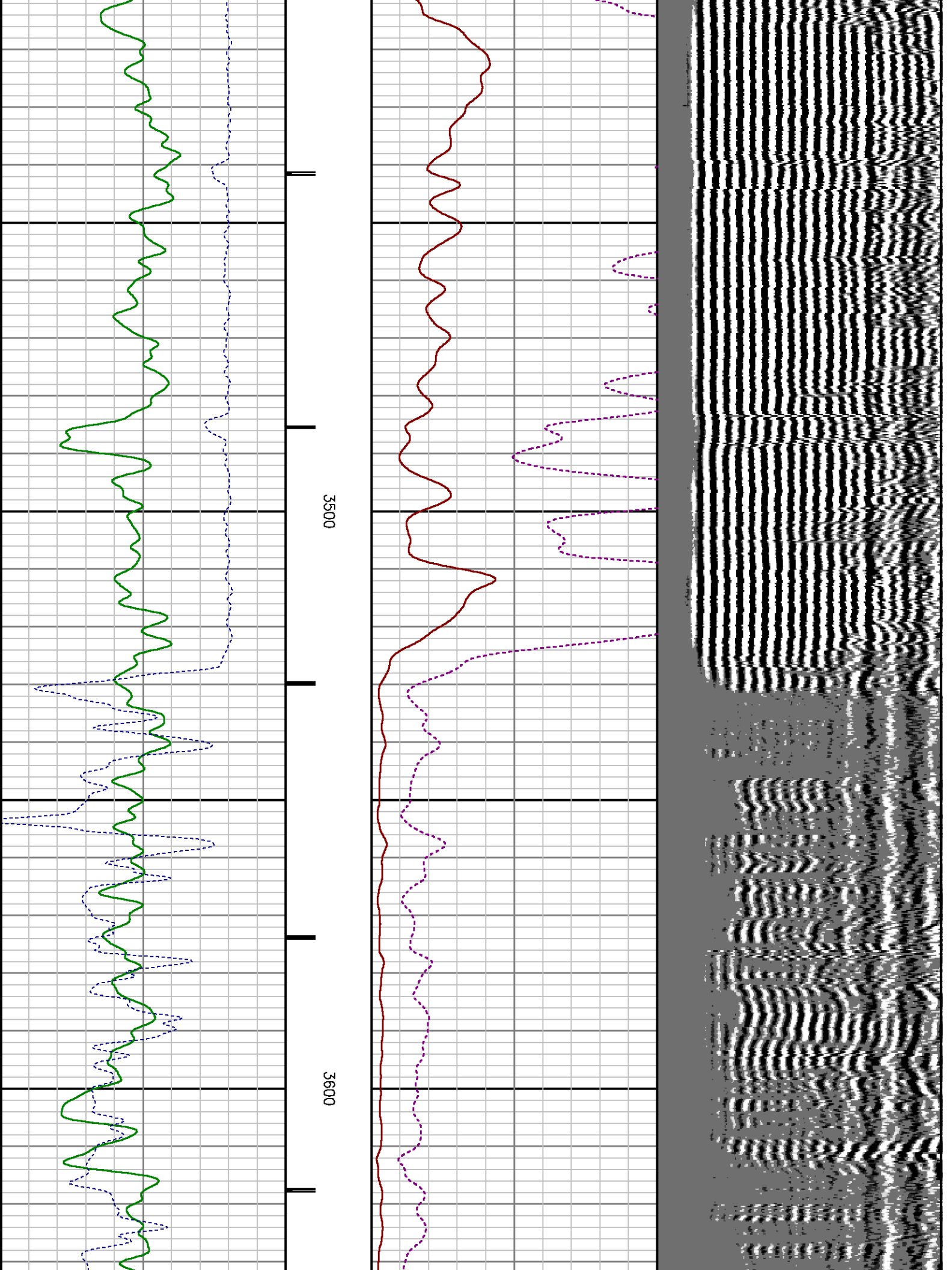


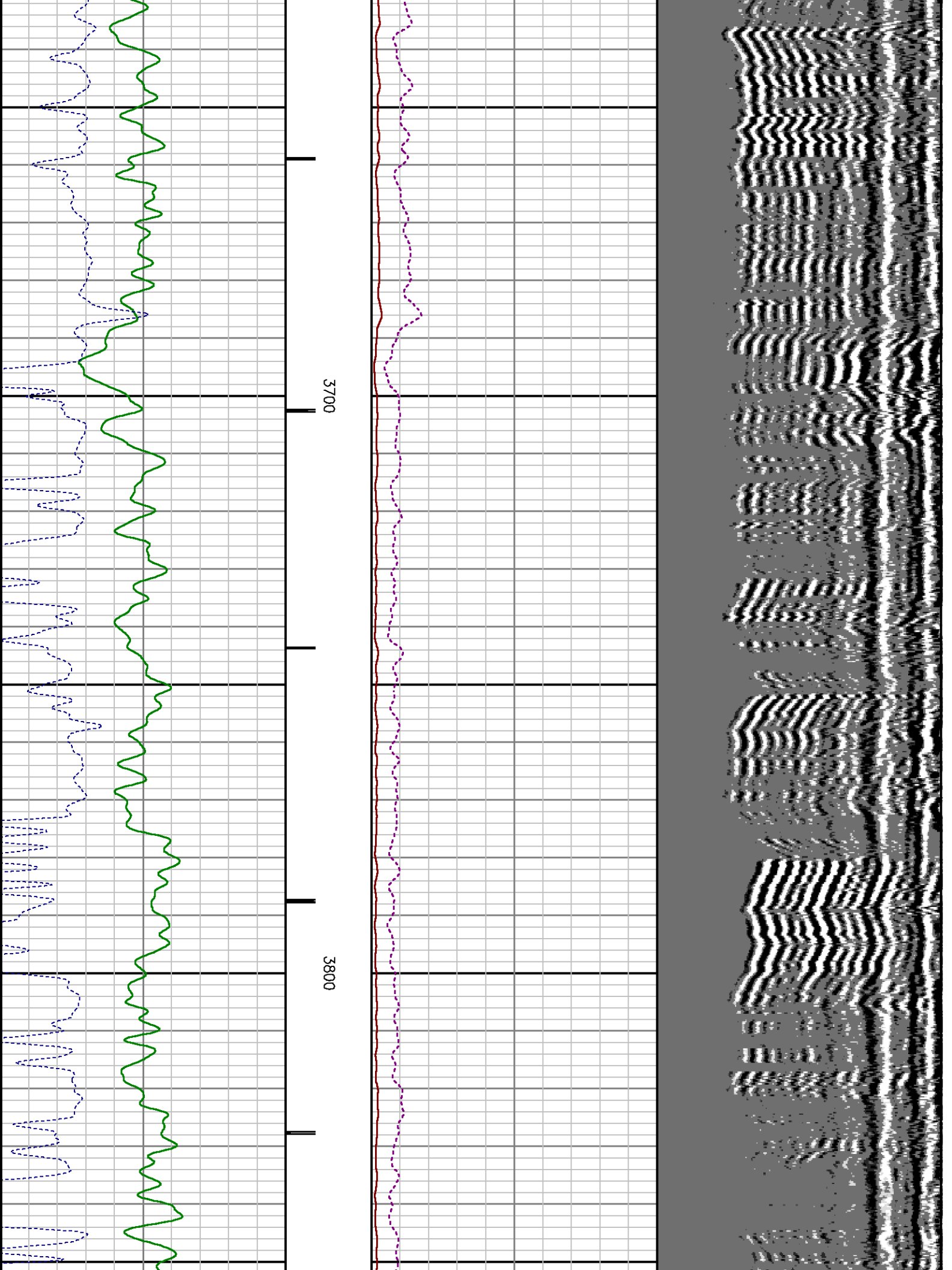


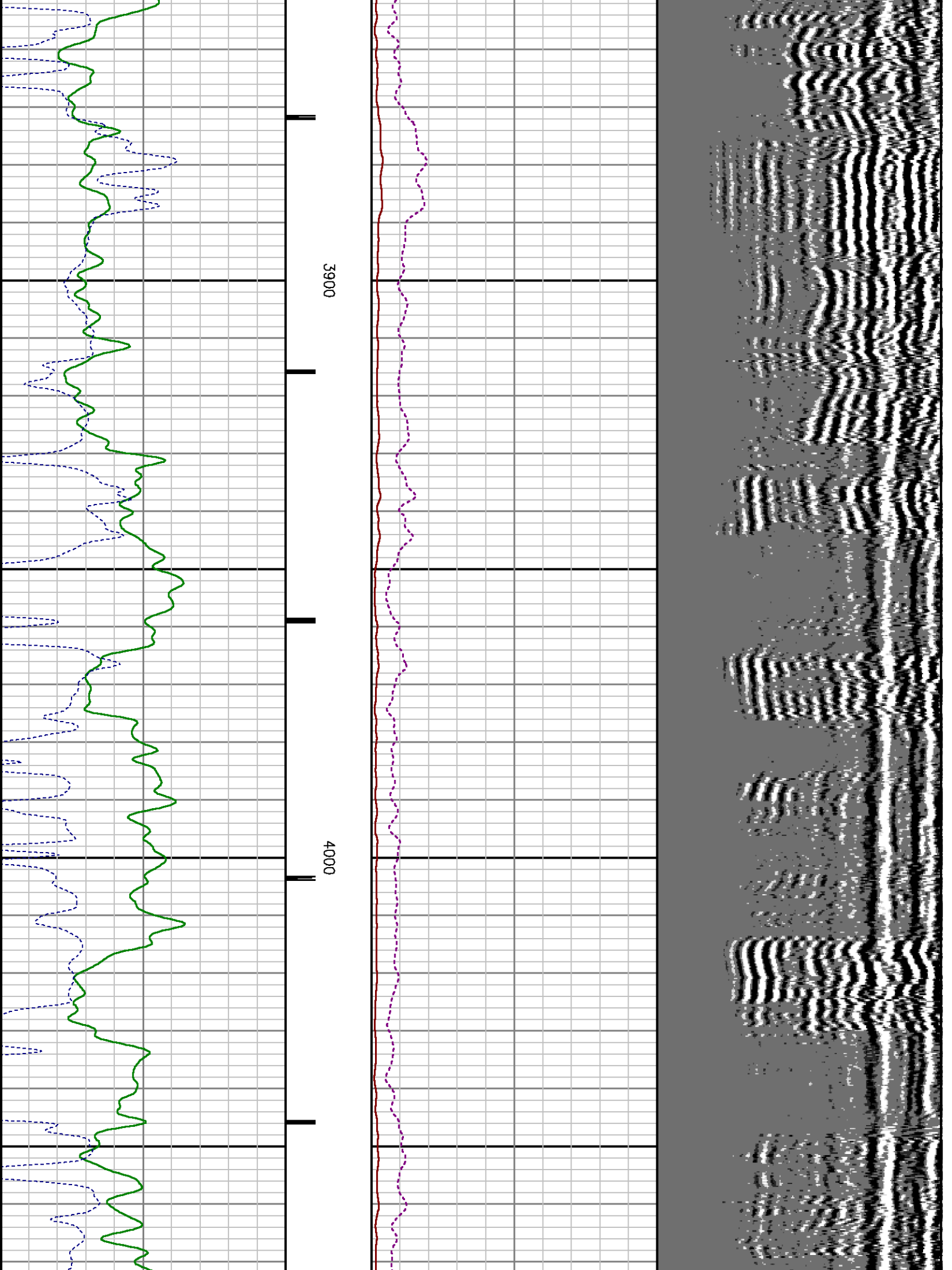


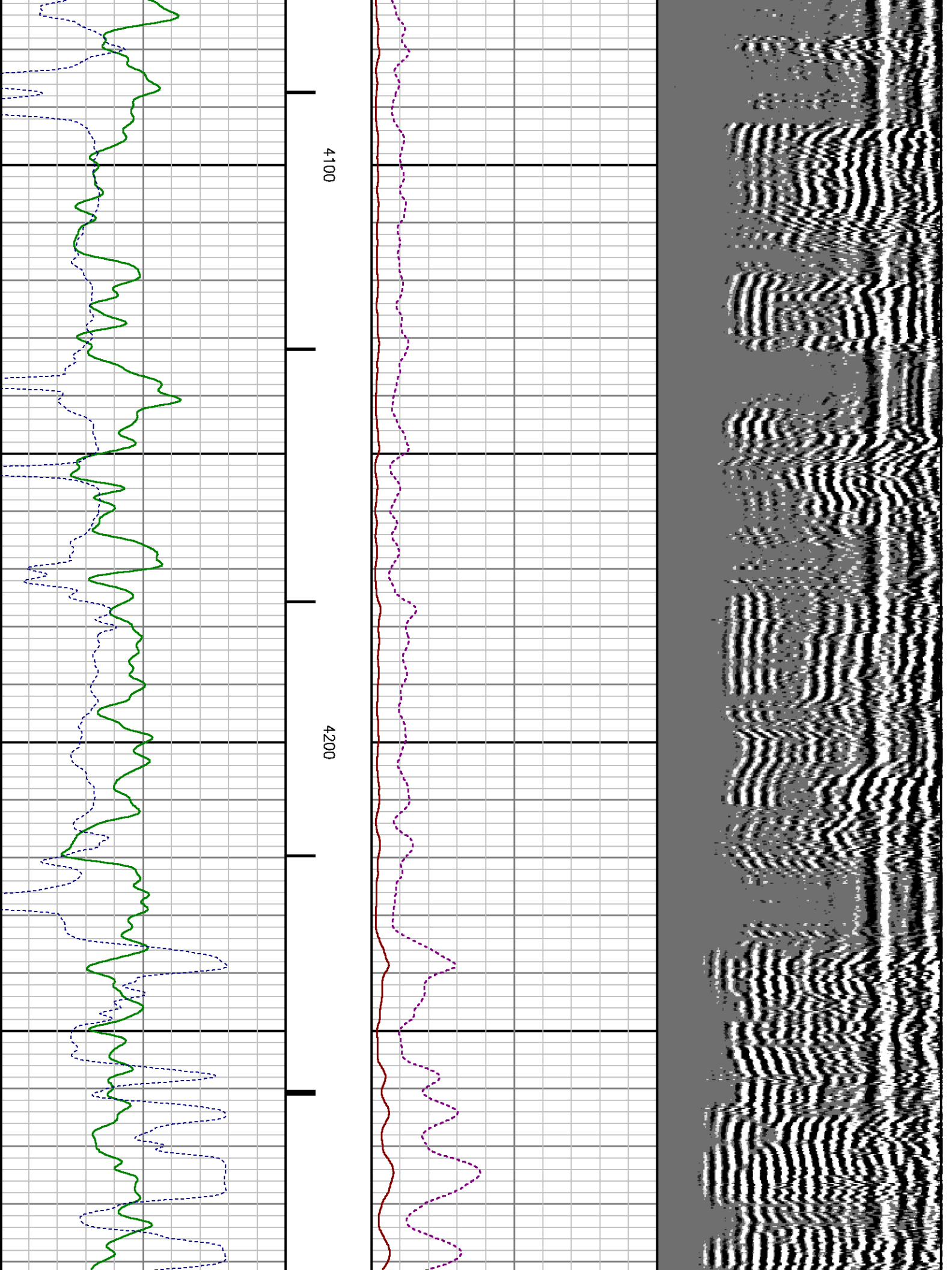


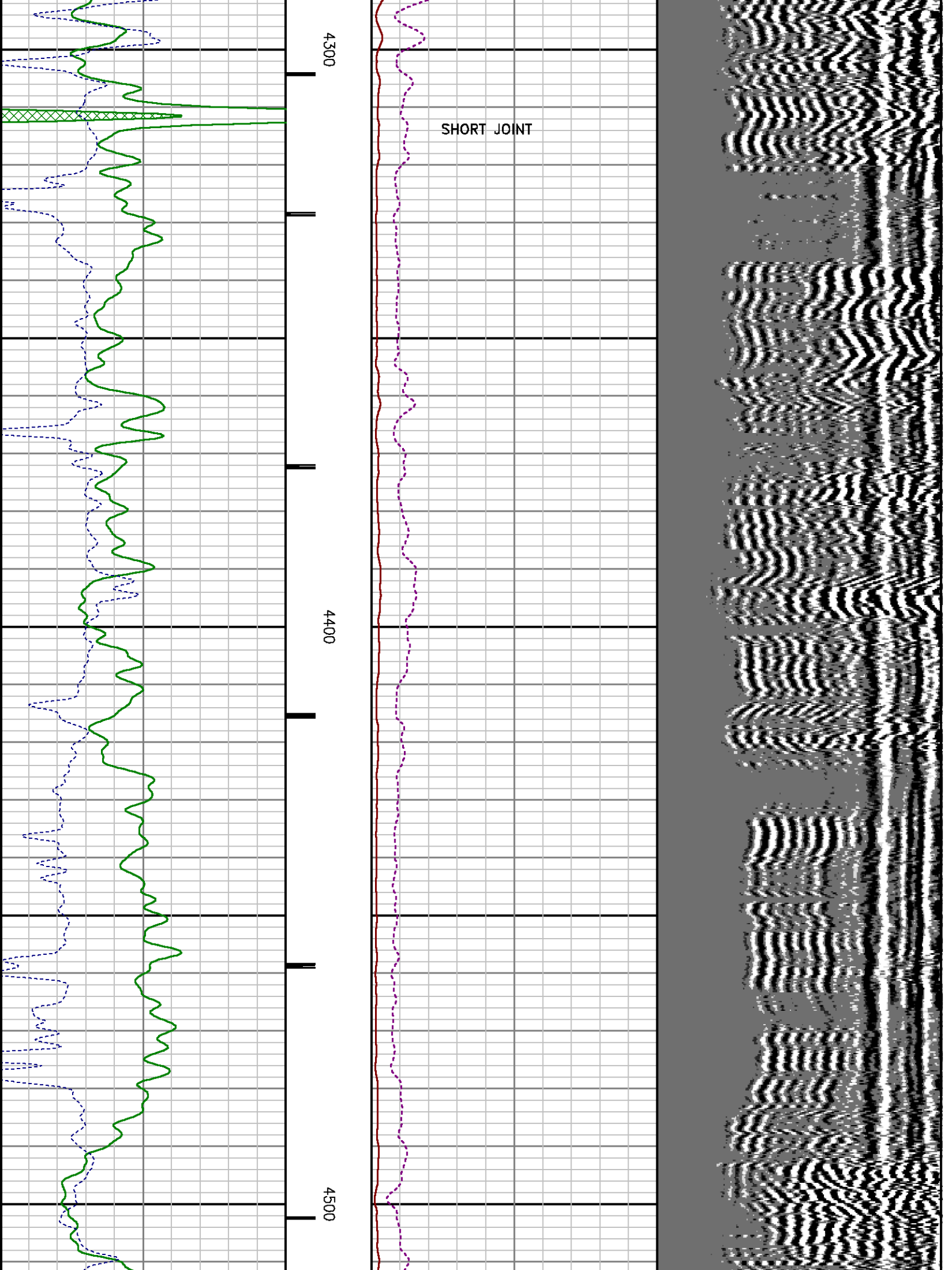


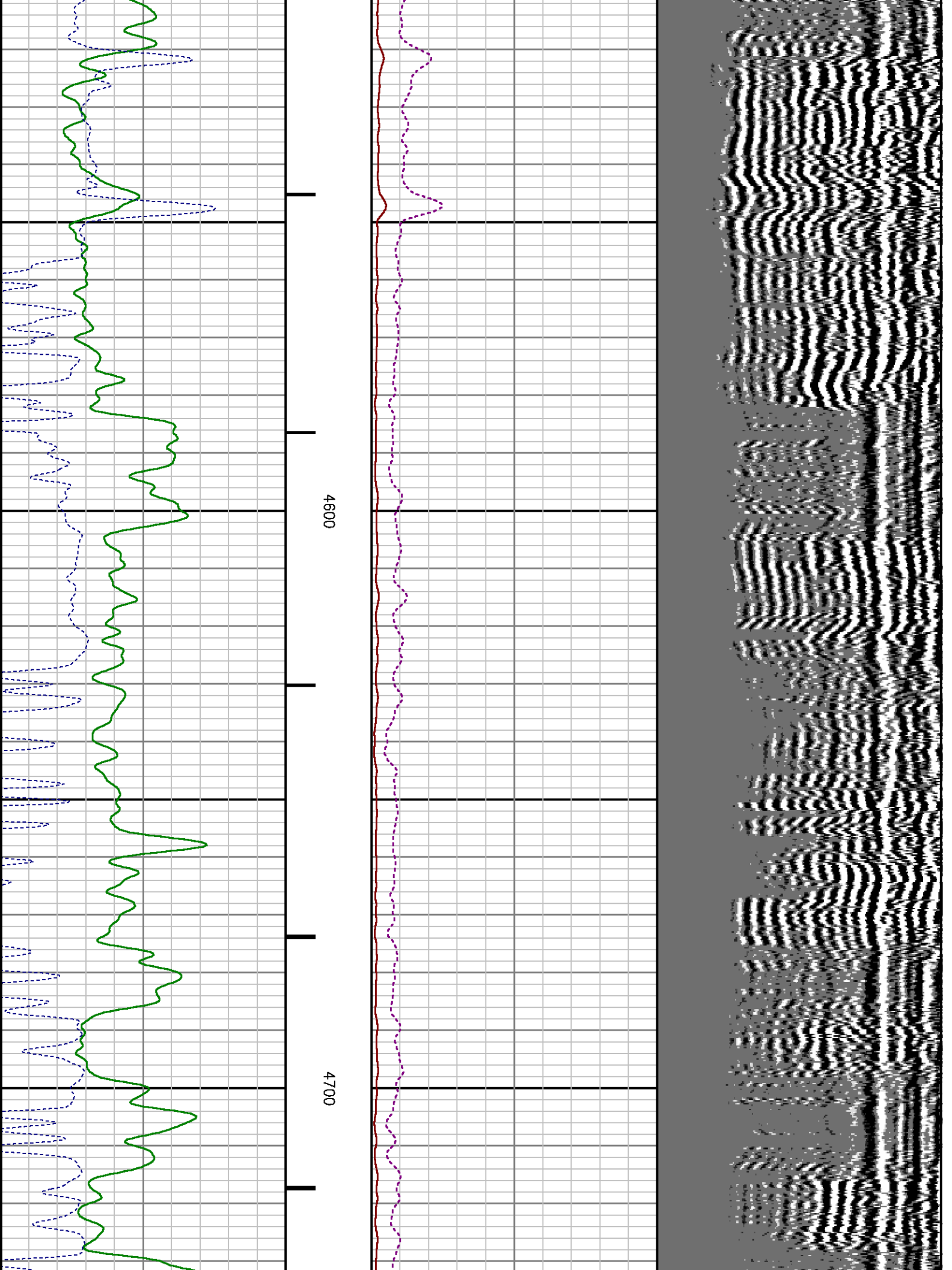


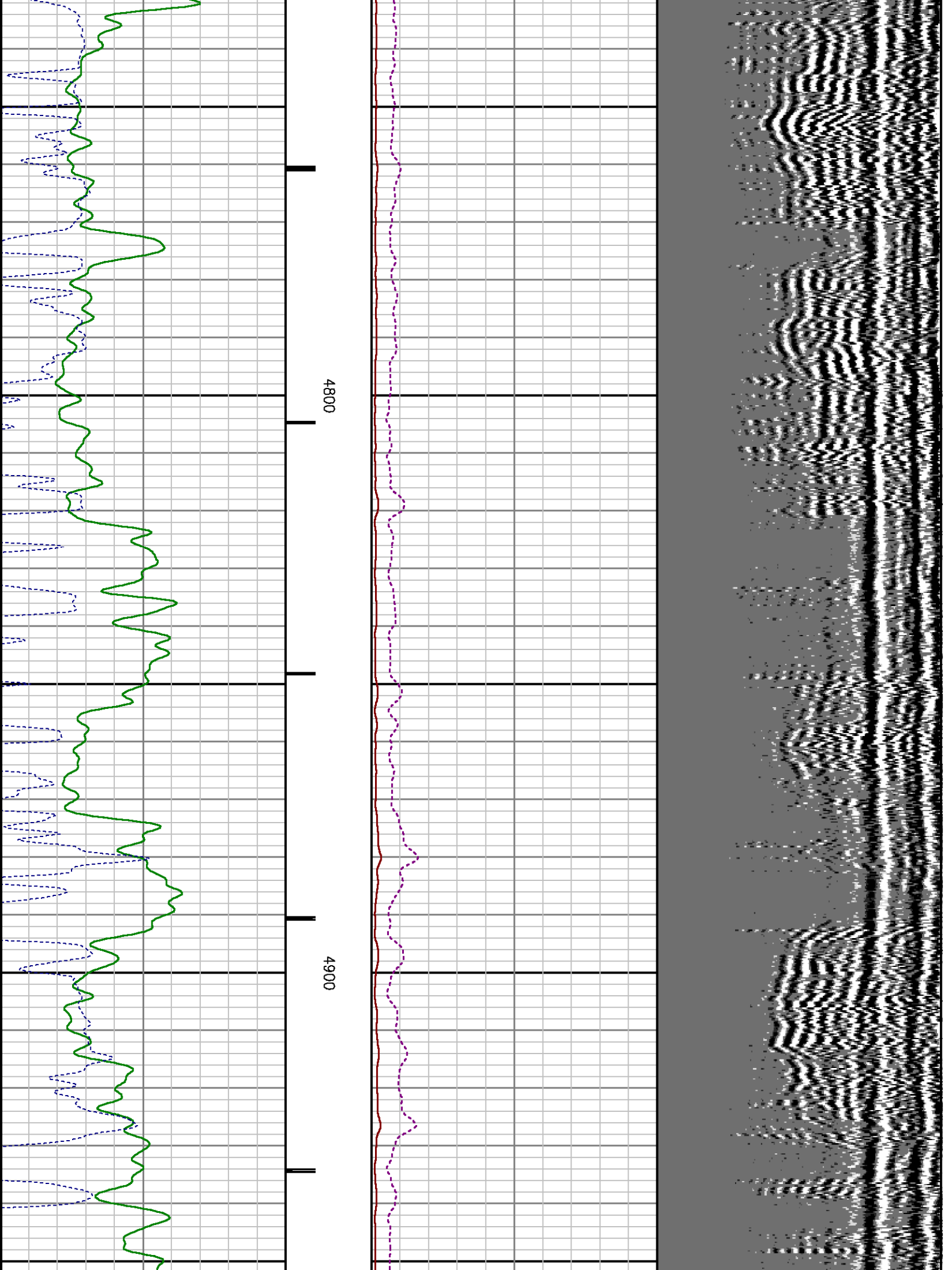


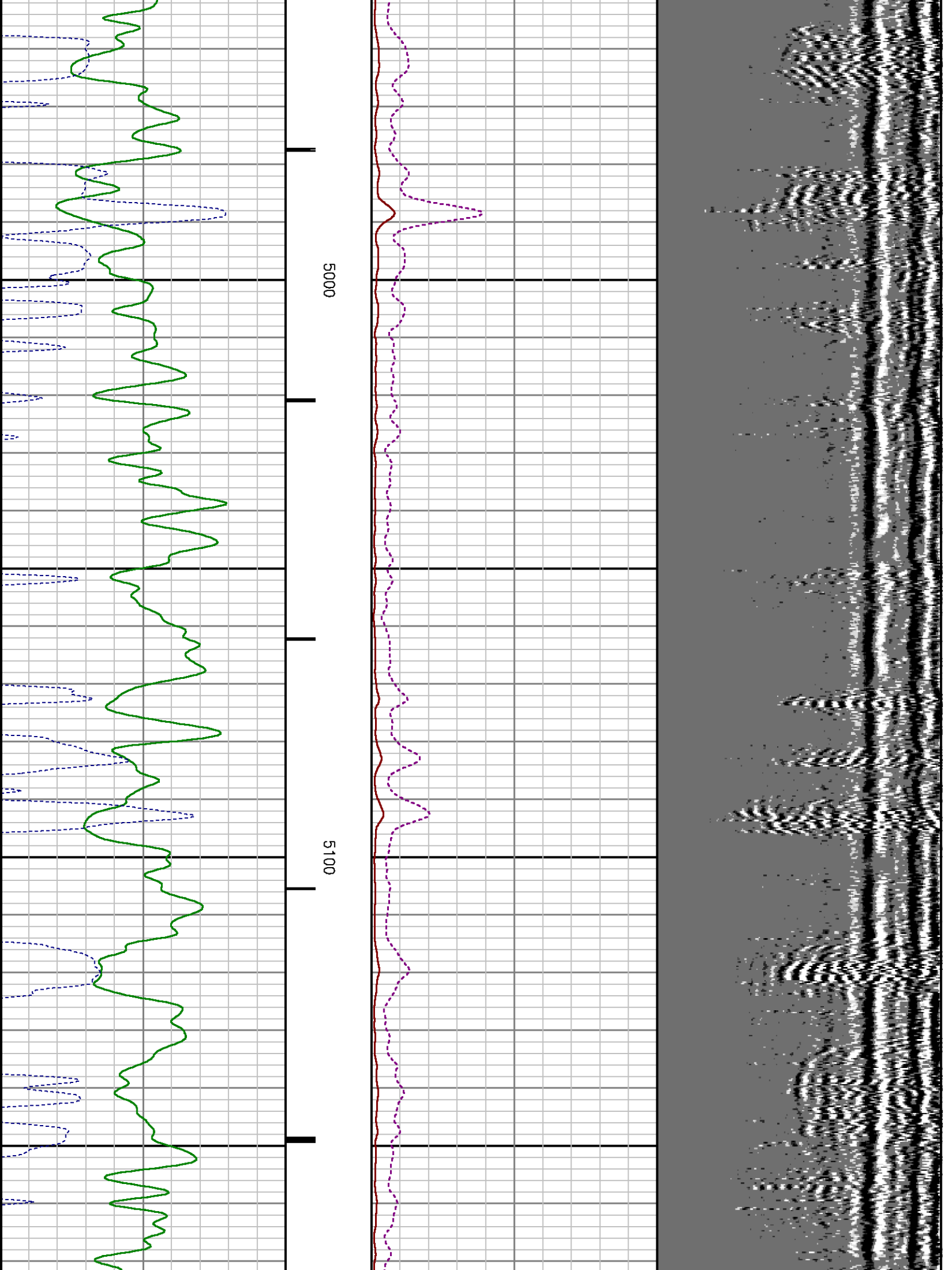


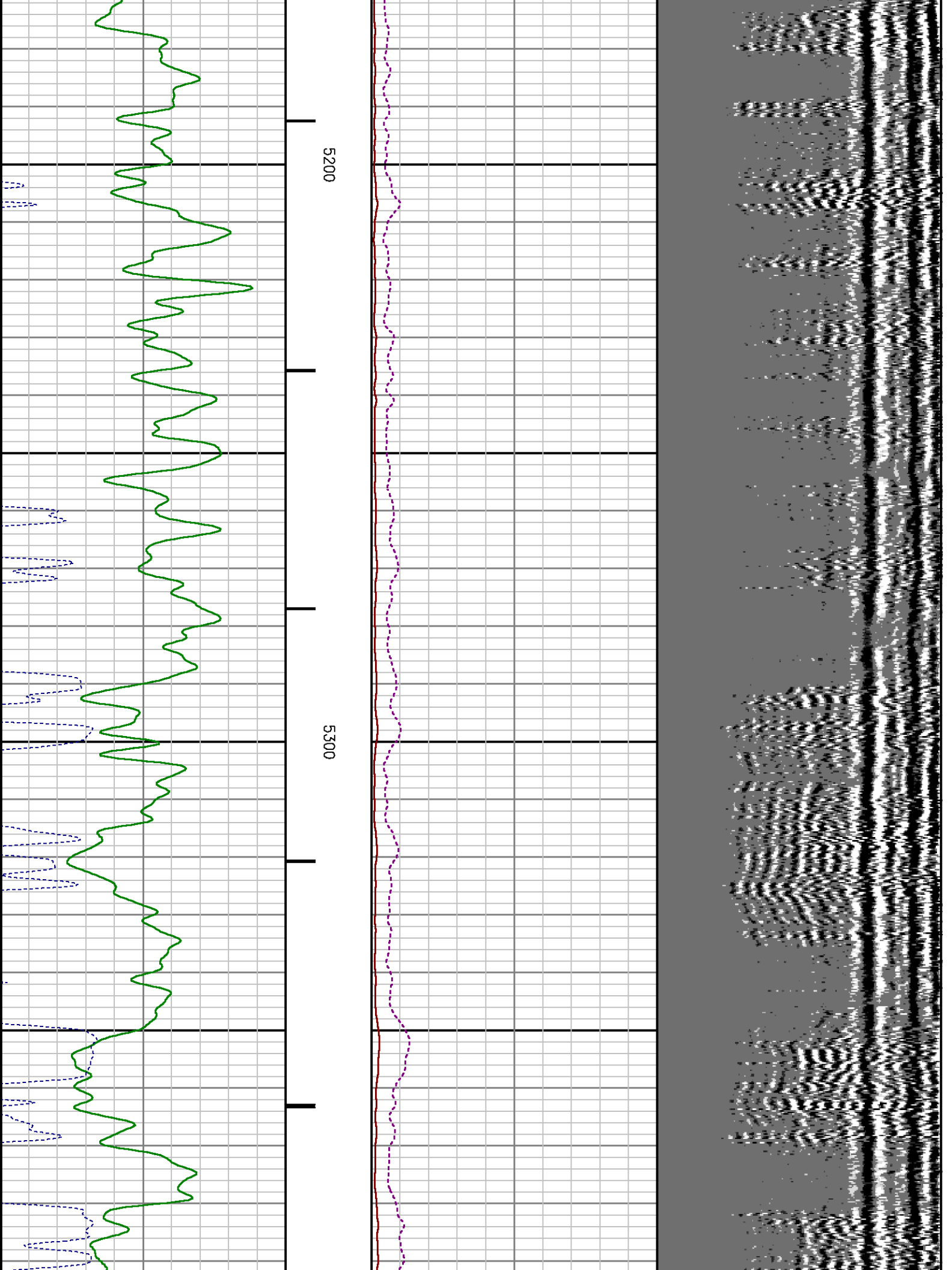


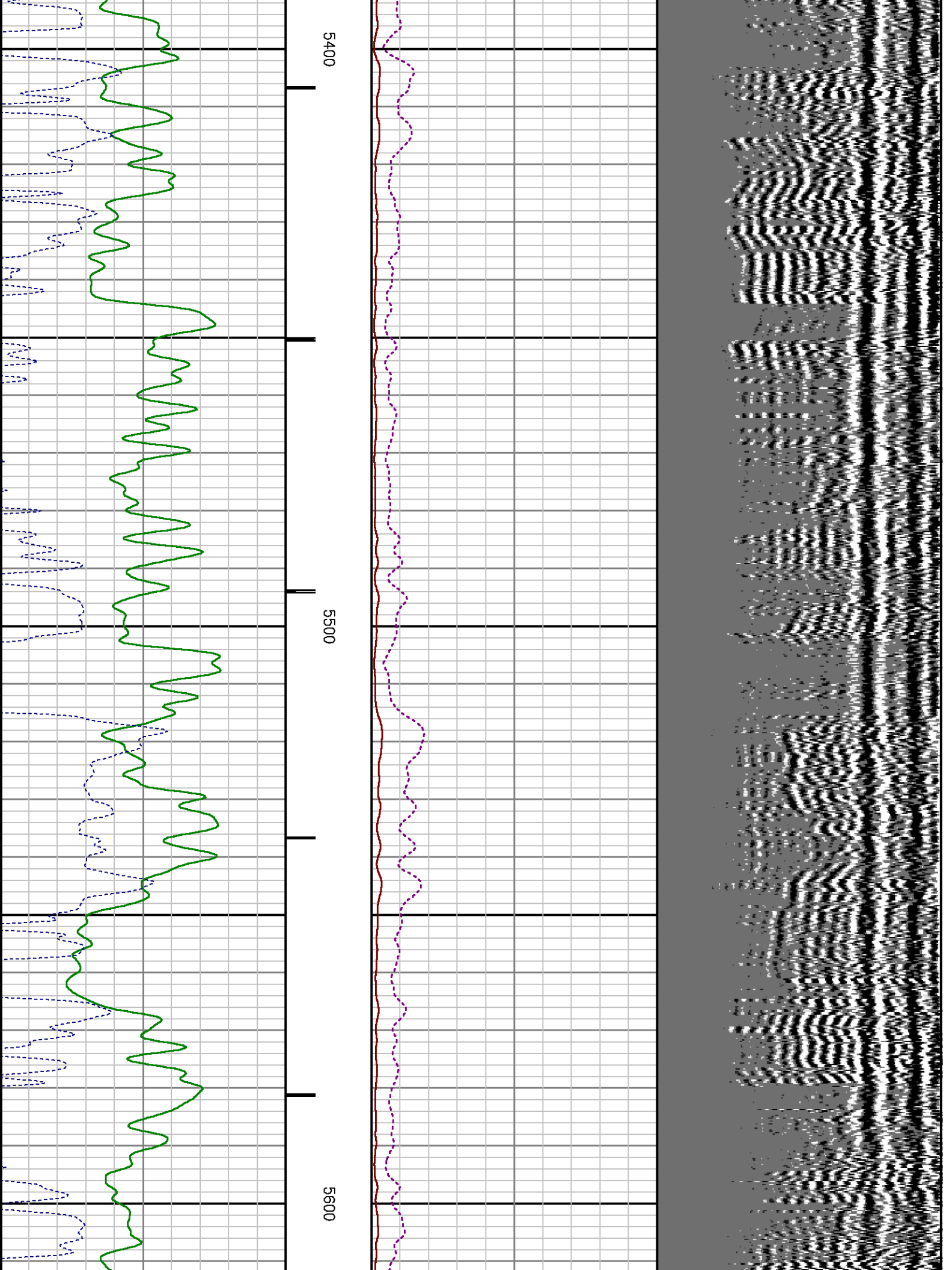


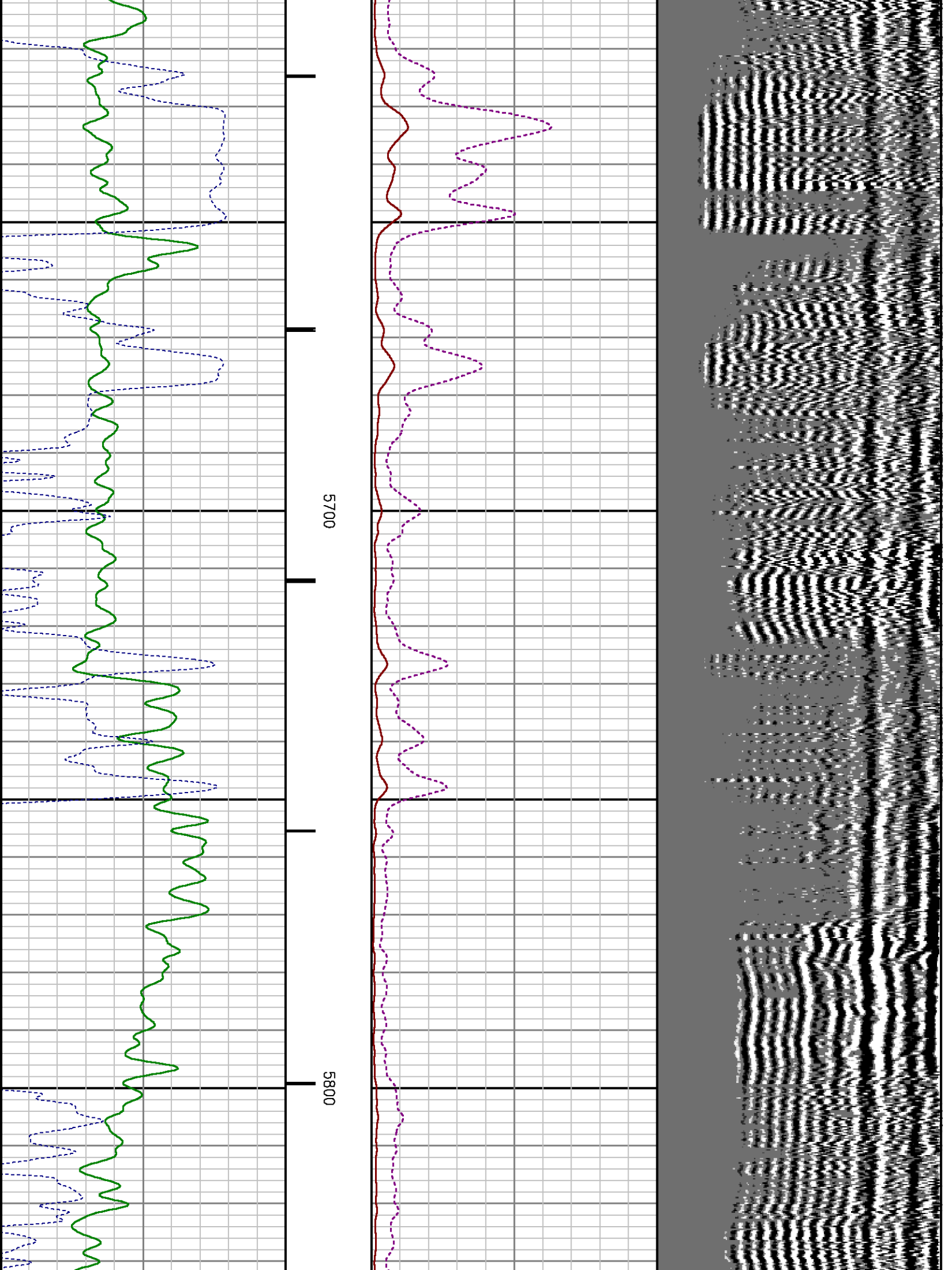


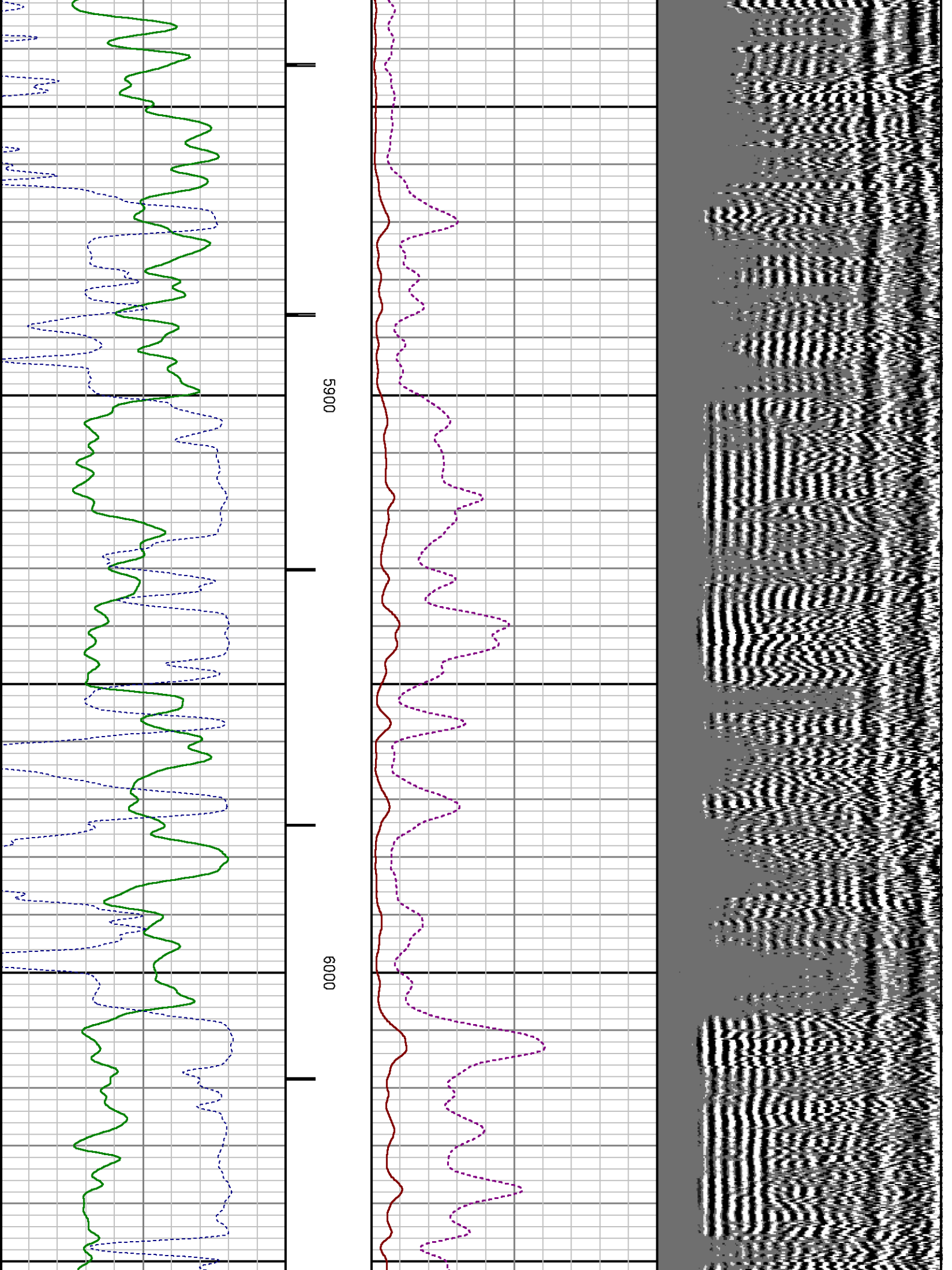


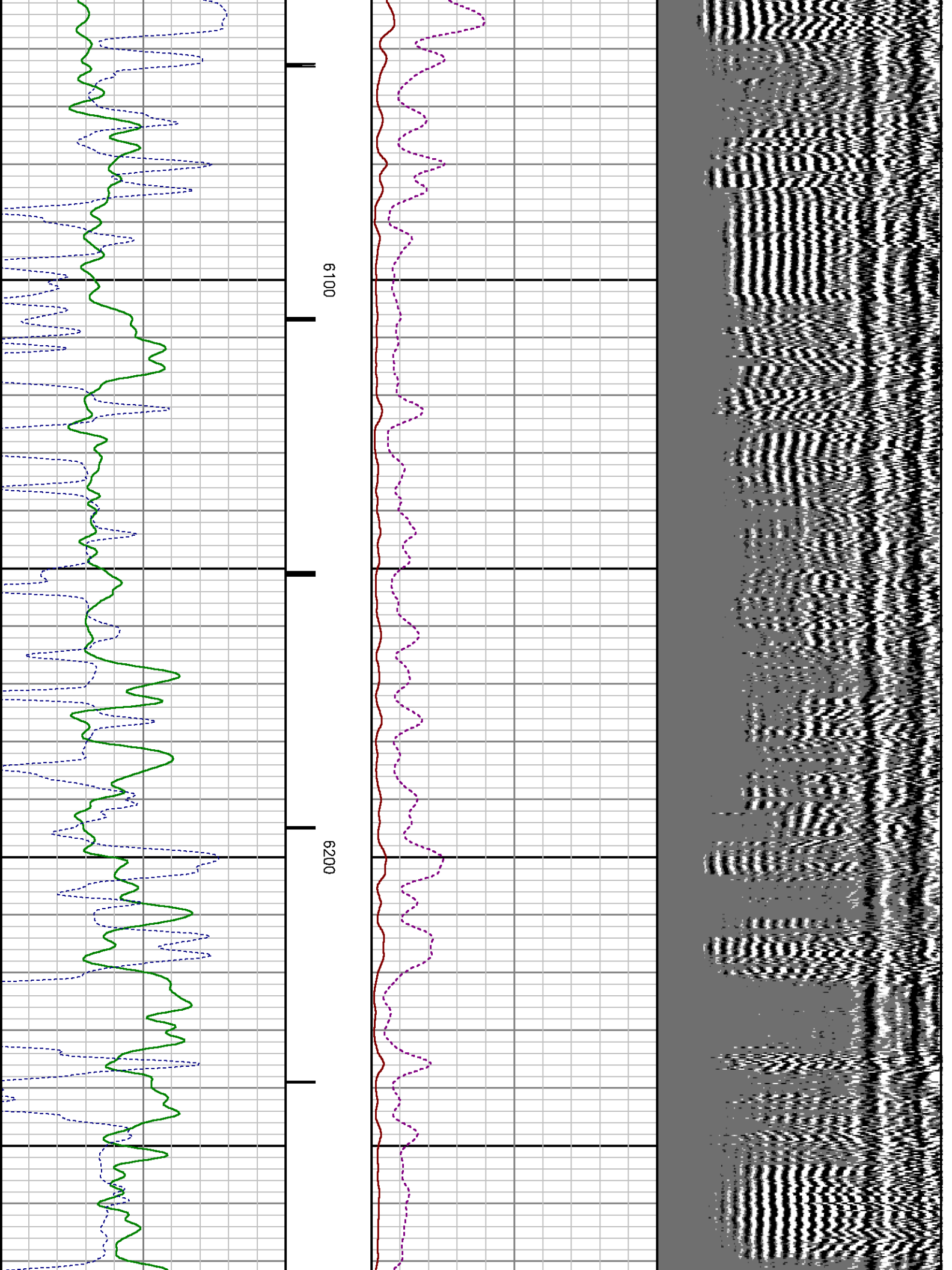


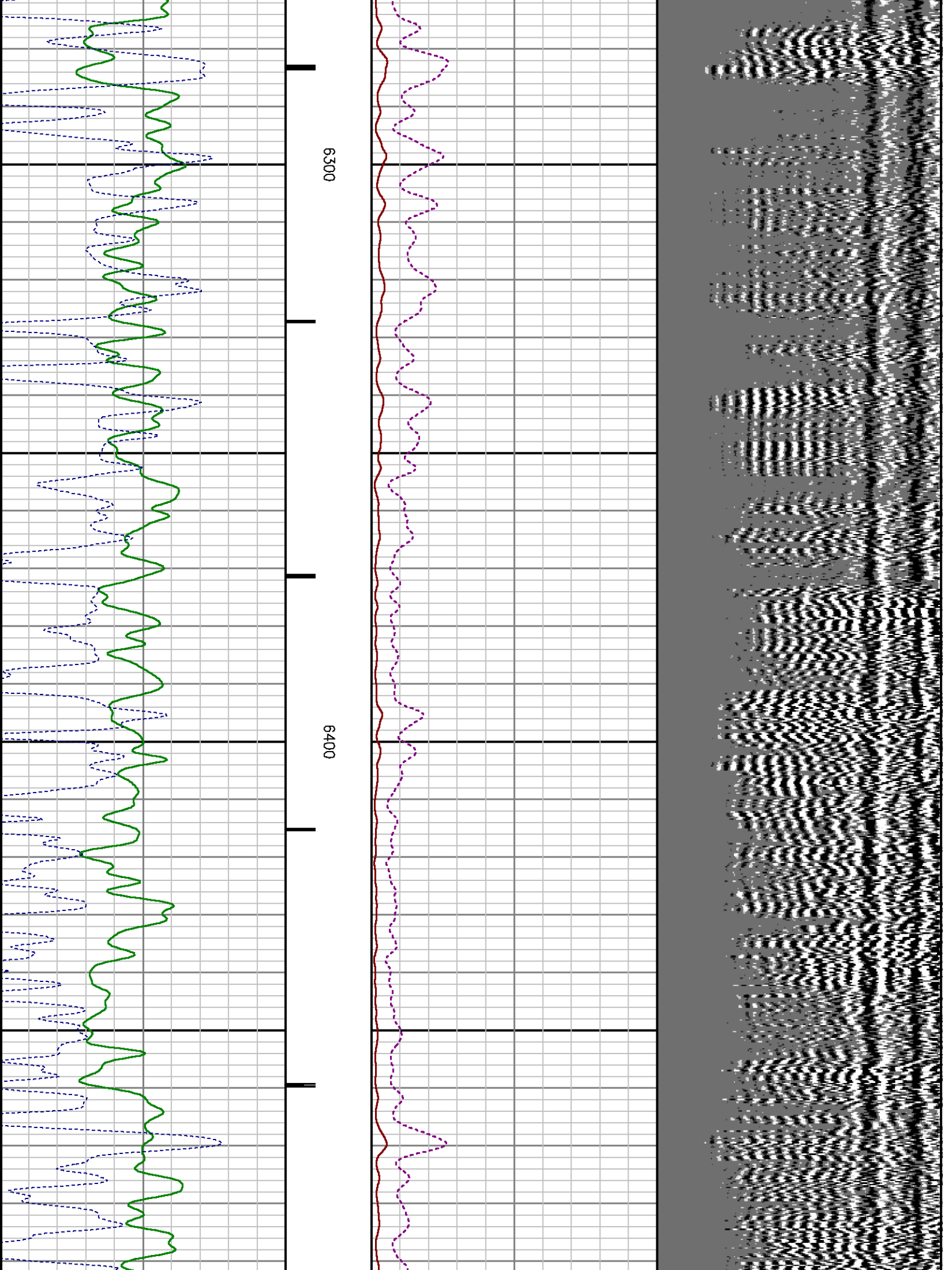


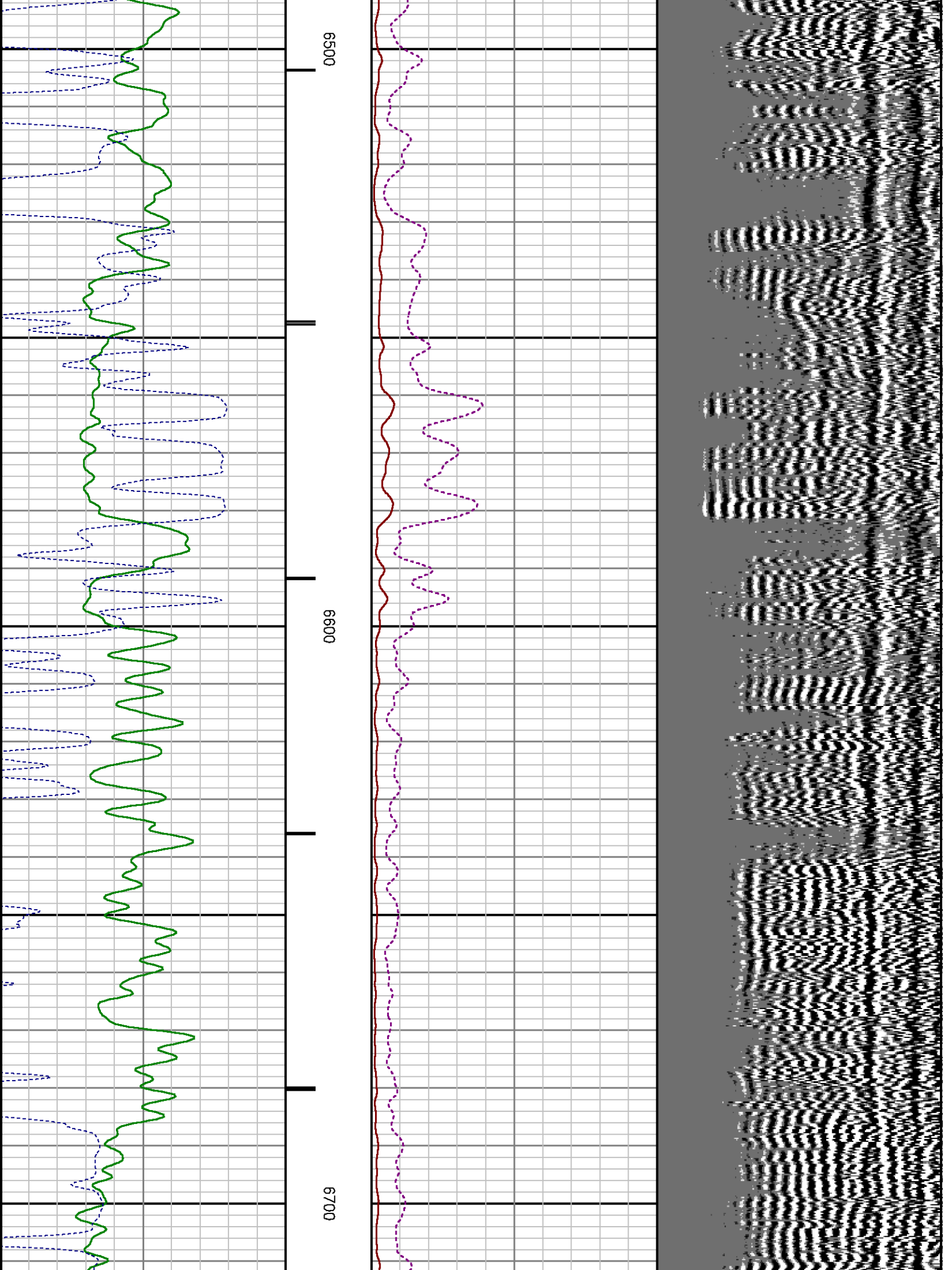


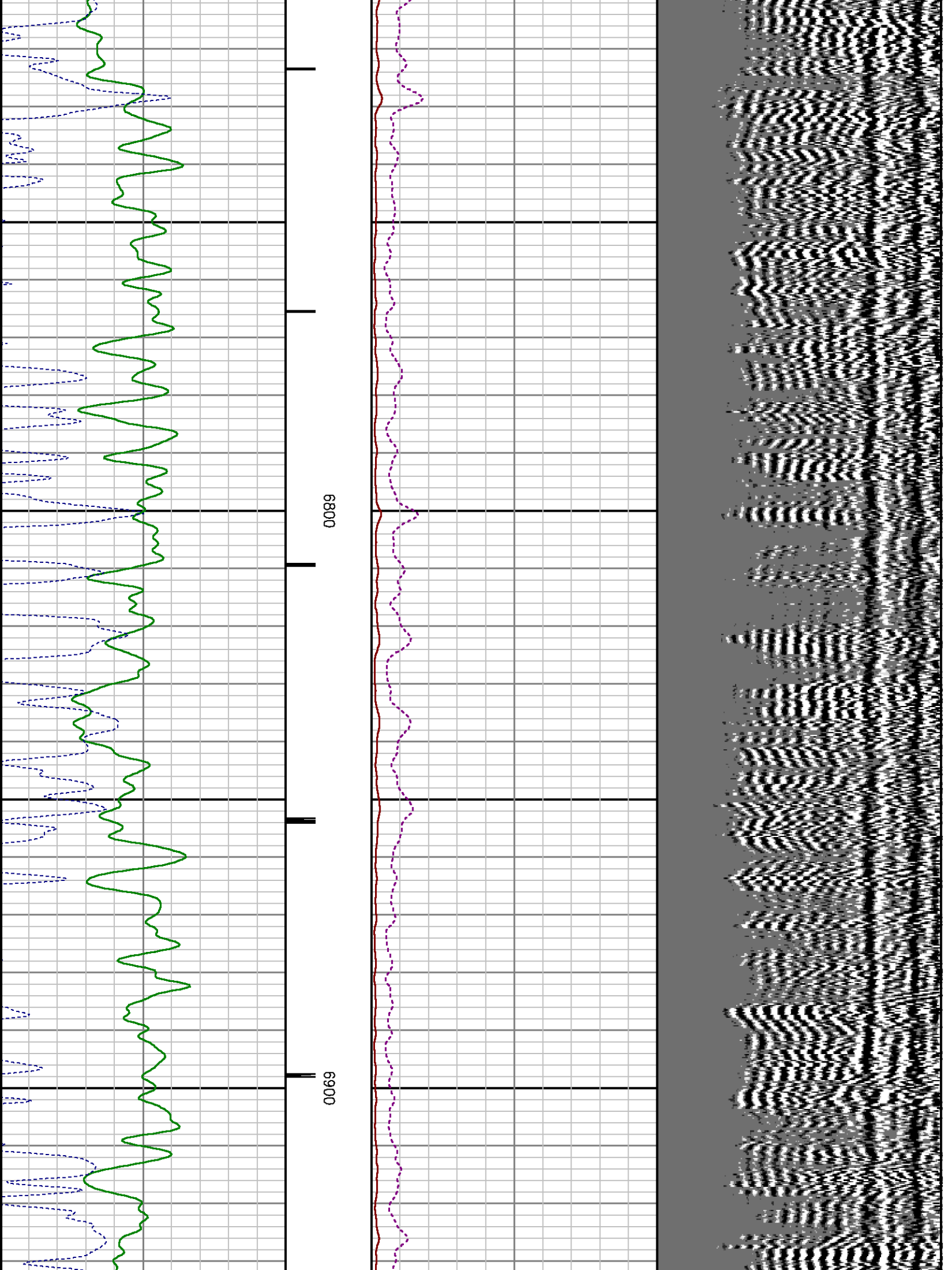


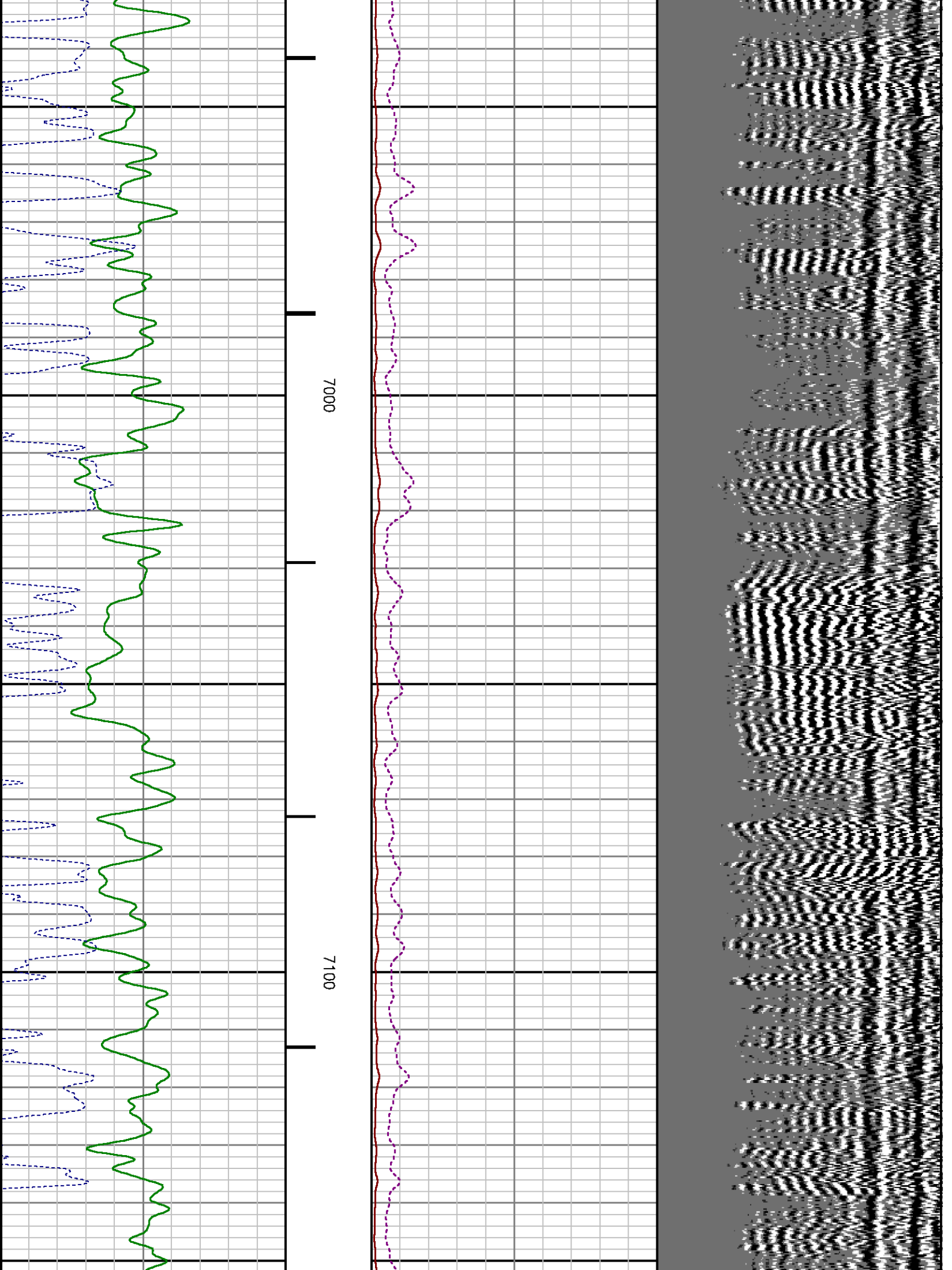


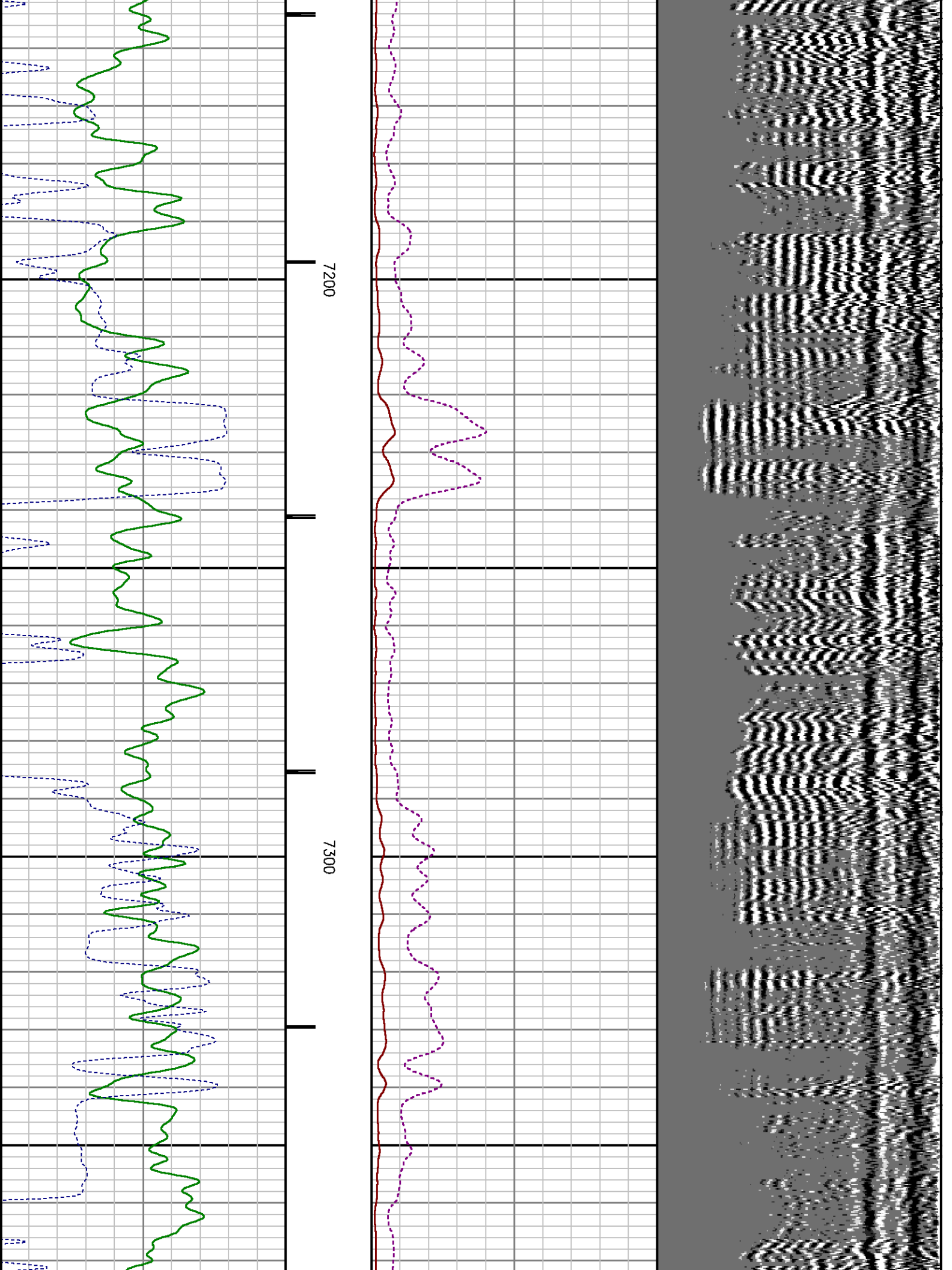


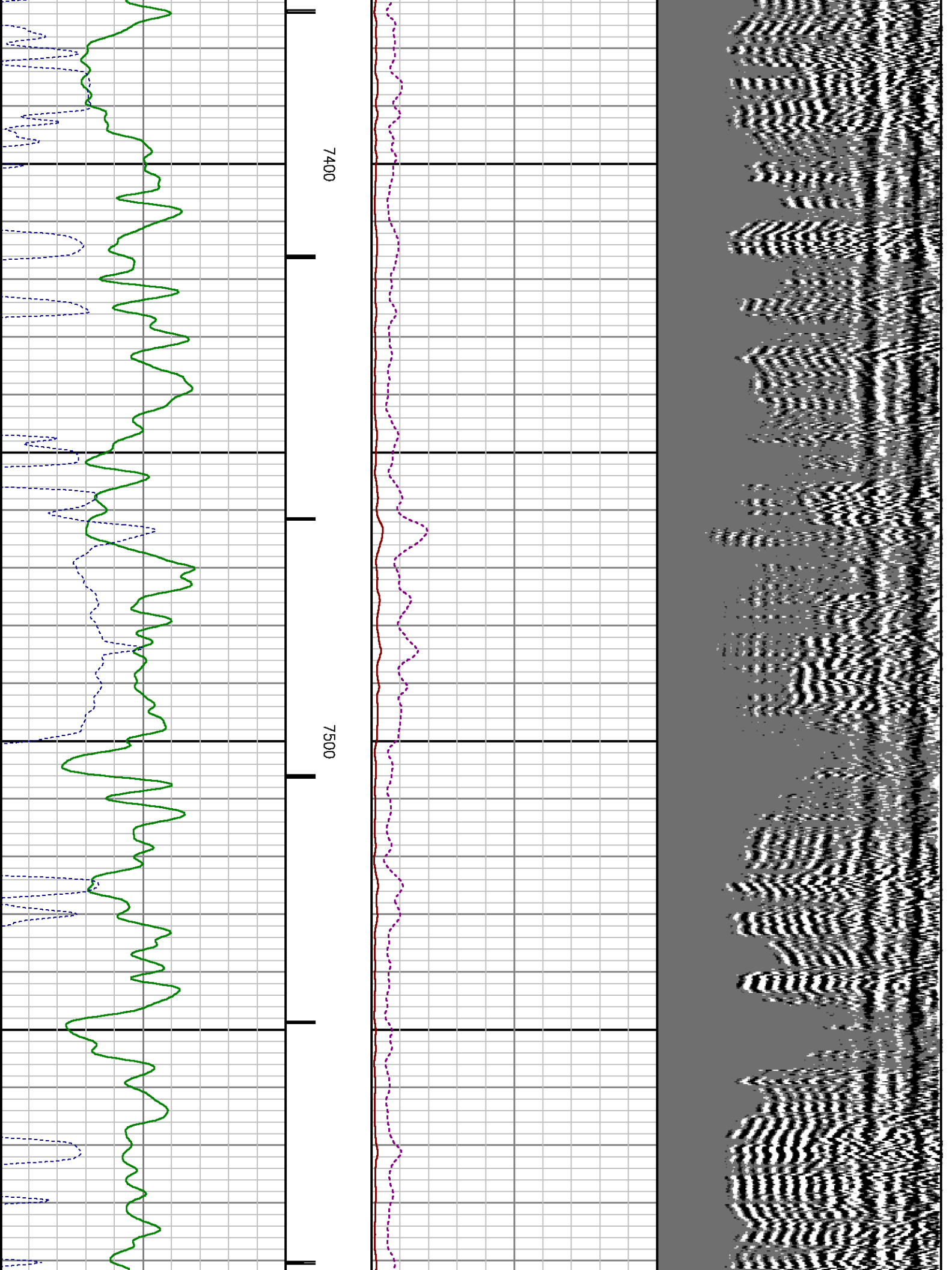


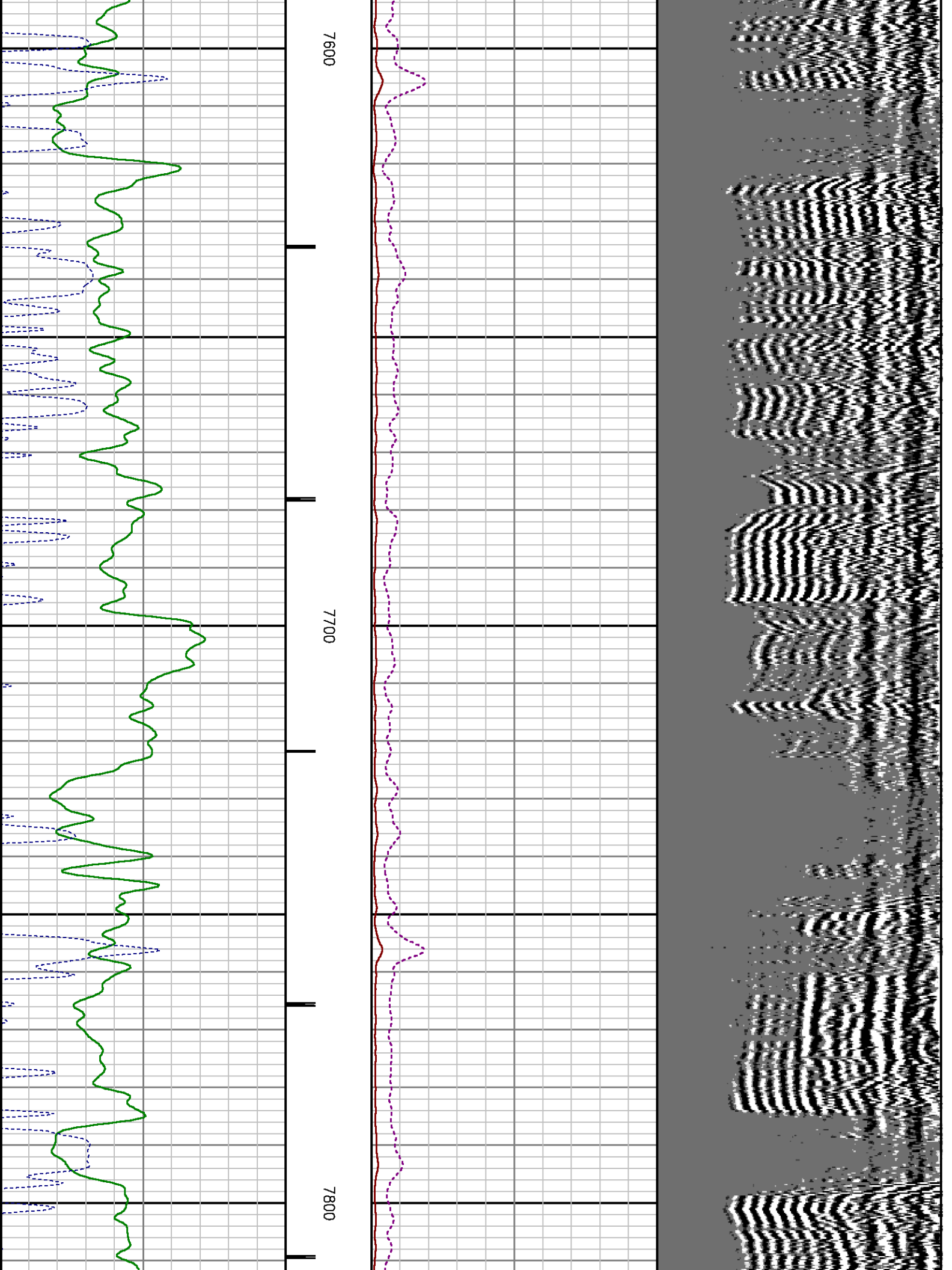


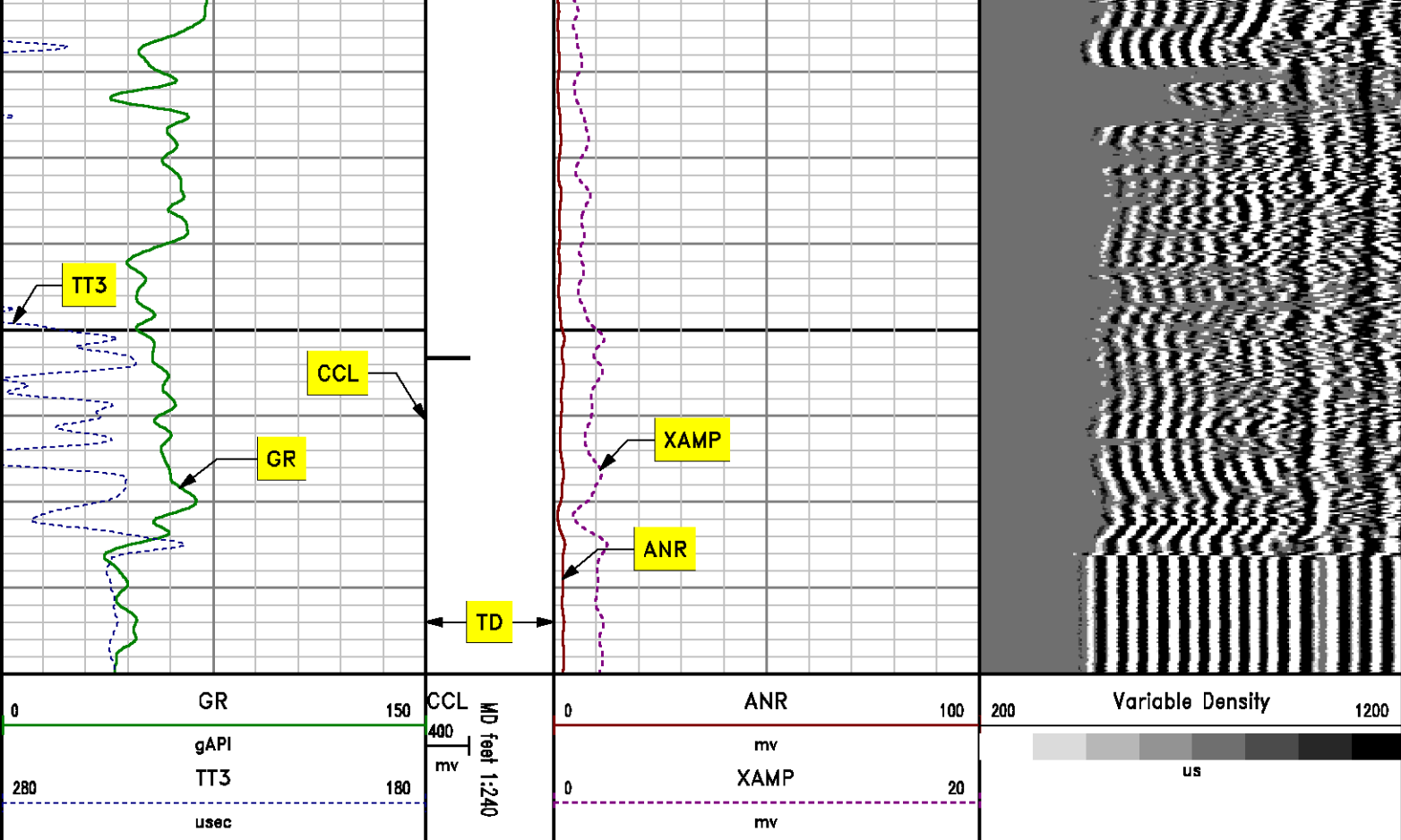












MAIN LOG SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.458	usec	34.093	7905.000
RAL	Amp Gate Start Near	199.599	usec	34.093	7905.000
RAL	Amp Gate Start Radial	199.599	usec	34.093	7905.000
RAL	Amp Gate Width Far	25.000	usec	34.093	7905.000
RAL	Amp Gate Width Near	25.000	usec	34.093	7905.000
RAL	Amp Gate Width Radial	25.000	usec	34.093	7905.000
RAL	casing od	4.500	inches	34.093	7905.000
RAL	casing wt	11.600	lbm/ft	34.093	7905.000
RAL	FB Start Far	291.900	usec	34.093	7905.000
RAL	FB Start Near	175.391	usec	34.093	7905.000
RAL	FB Start Radial	175.391	usec	34.093	7905.000

RAL	FB Thresh Far	10.000	mv	34.093	7905.000
RAL	FB Thresh Near	4.000	mv	34.093	7905.000
RAL	FB Thresh Radial	4.000	mv	34.093	7905.000
RAL	Fluid Travel Time	200.000	usec/ft	34.093	7904.937

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

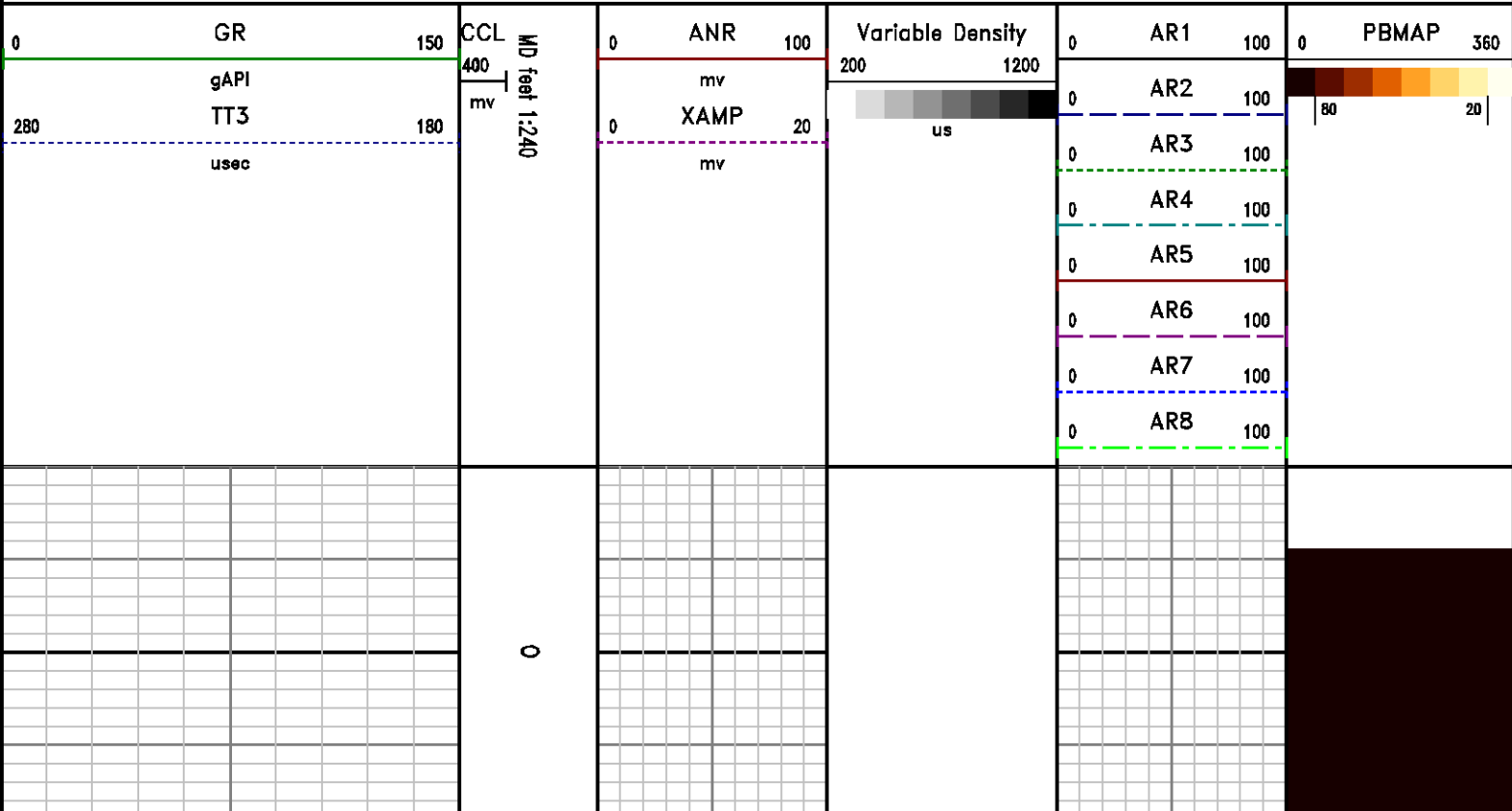
Well : GOLDSBOROUGH PA 521-11

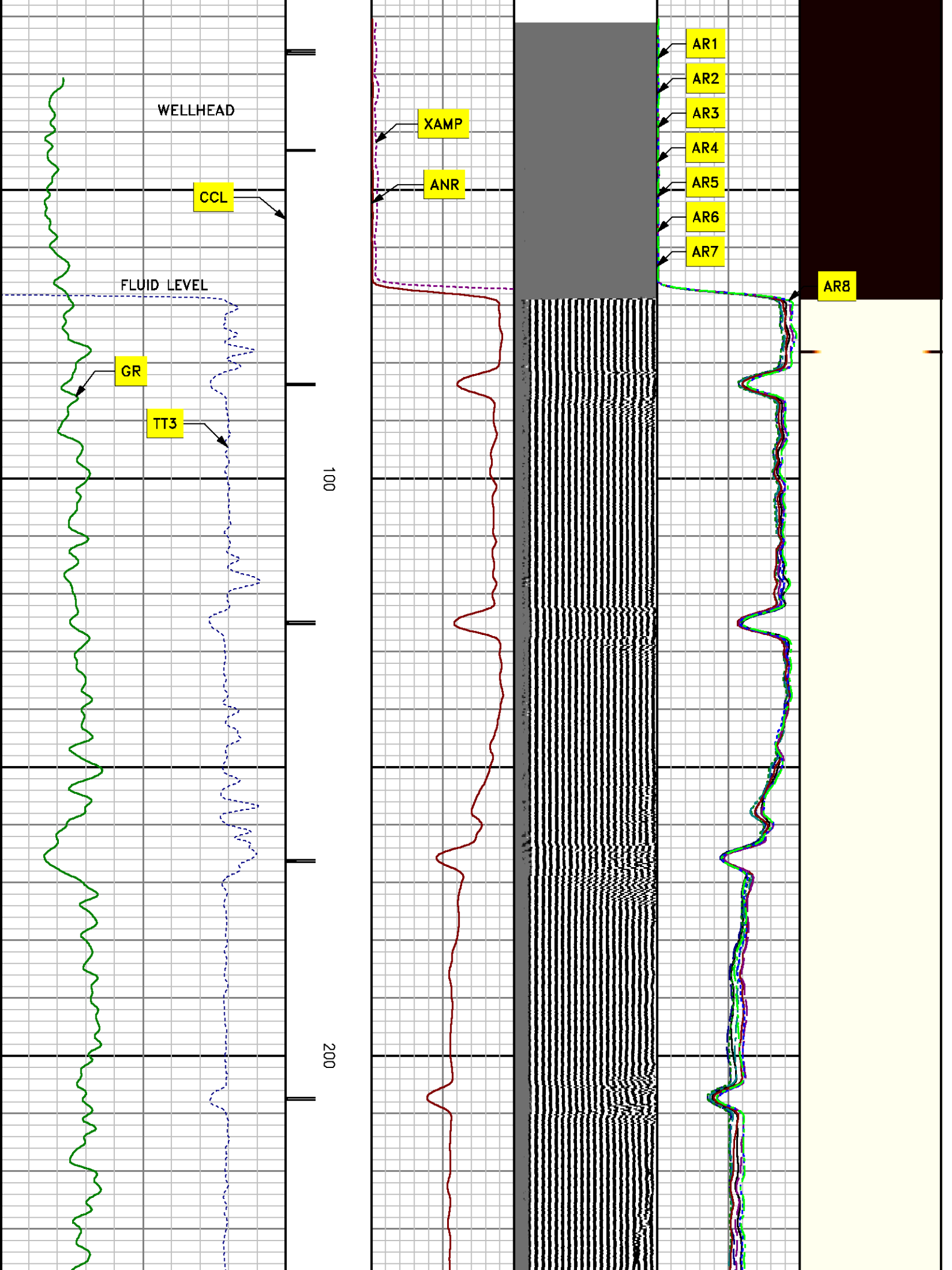
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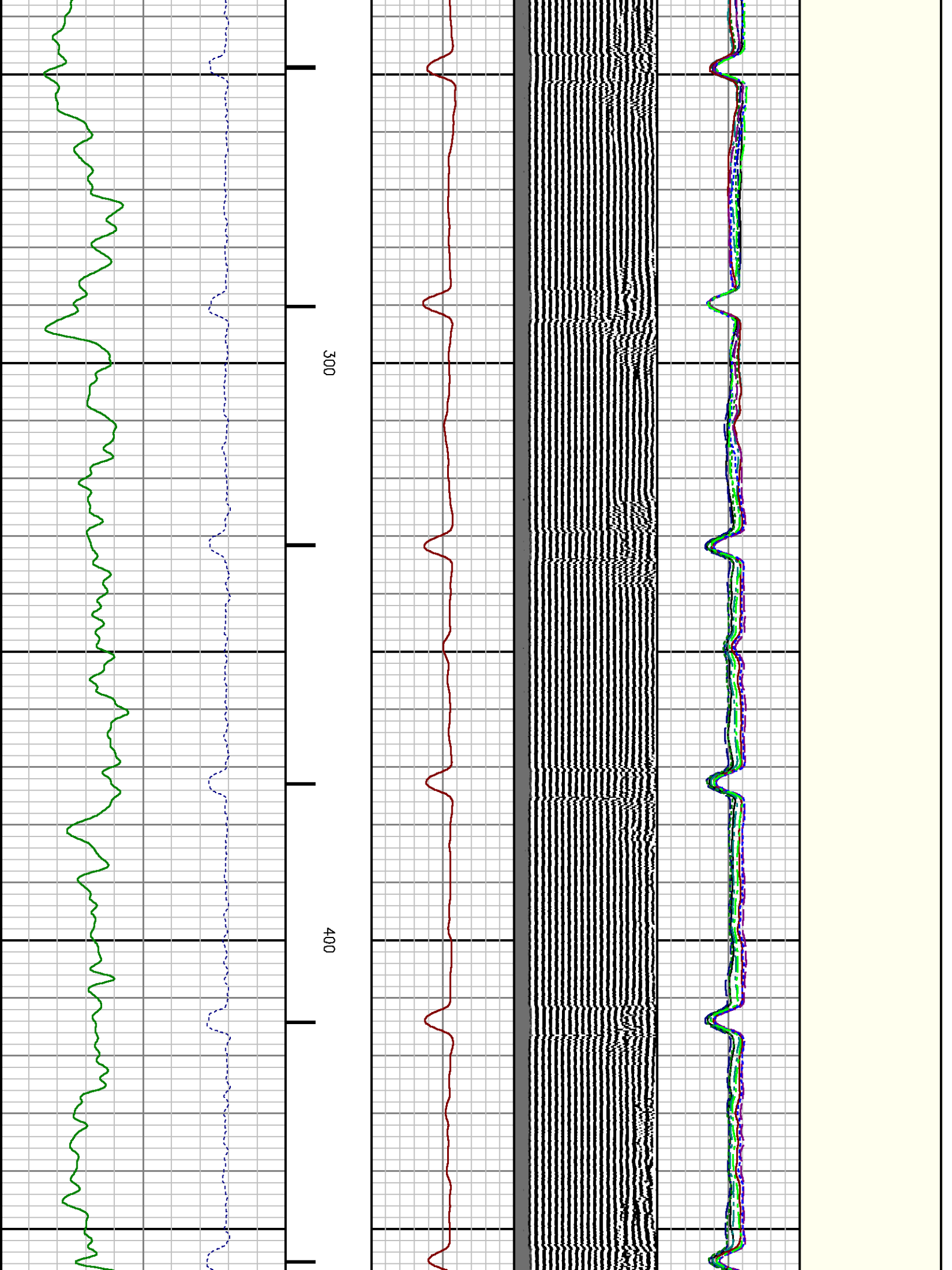
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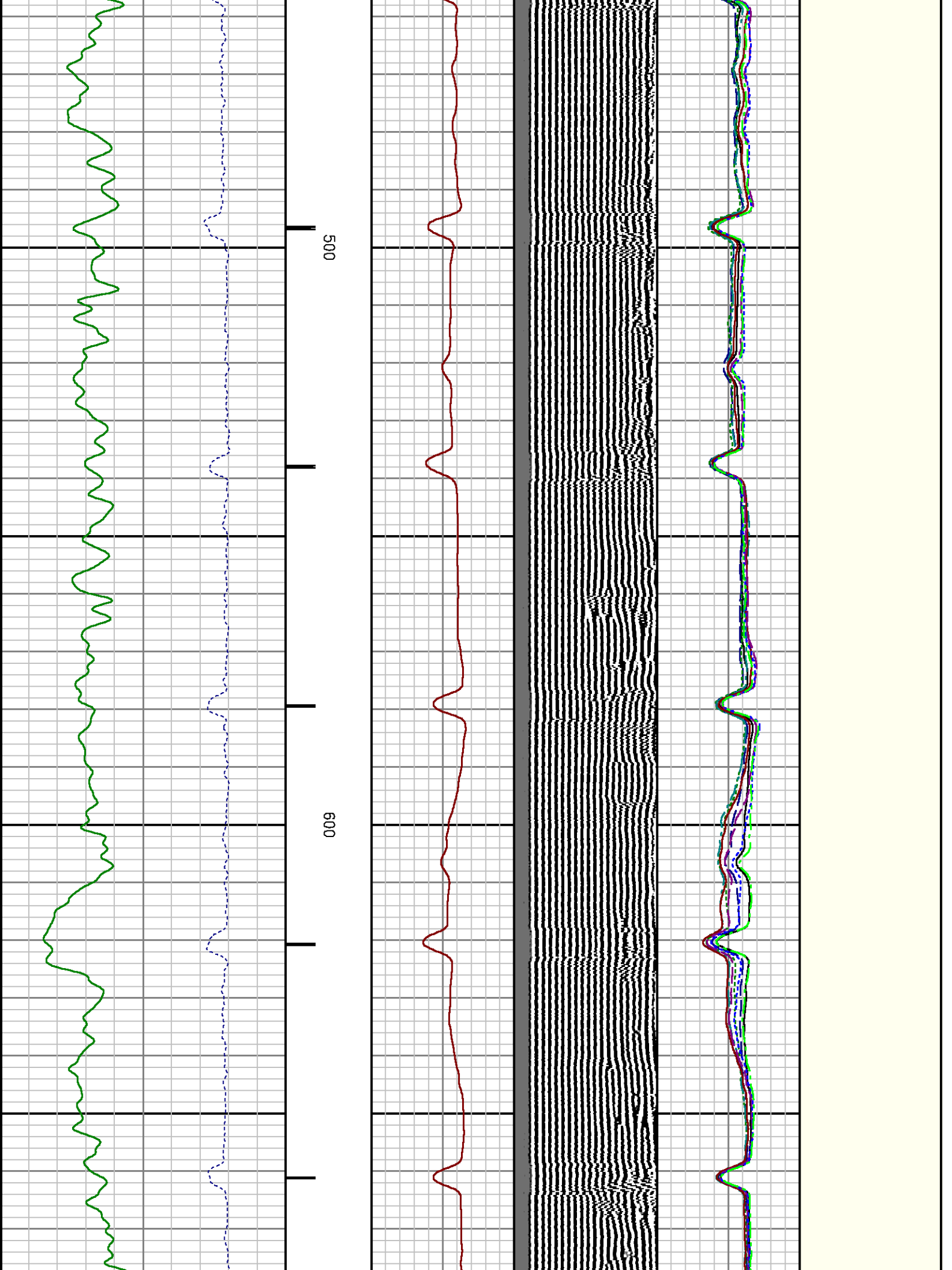
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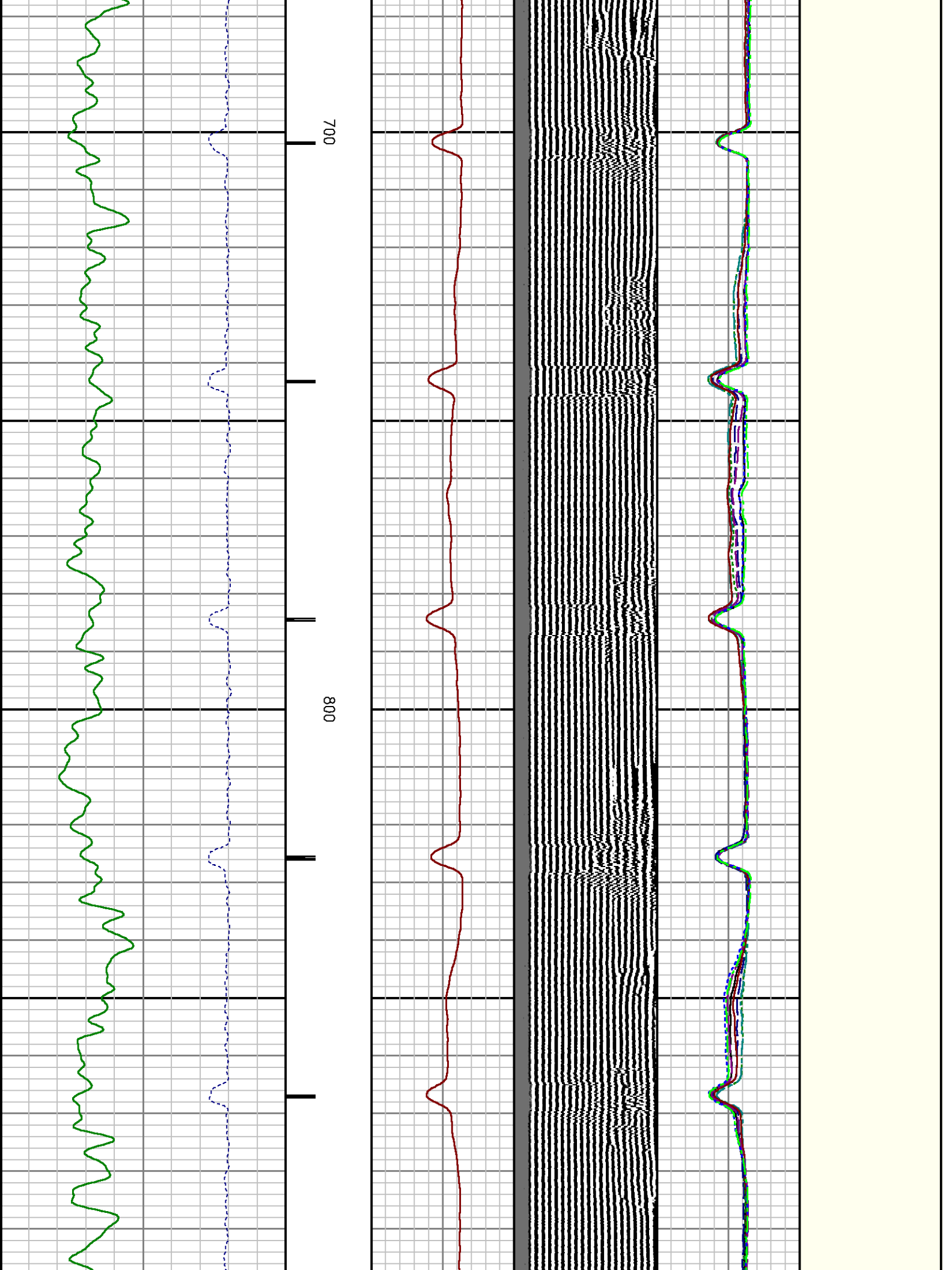
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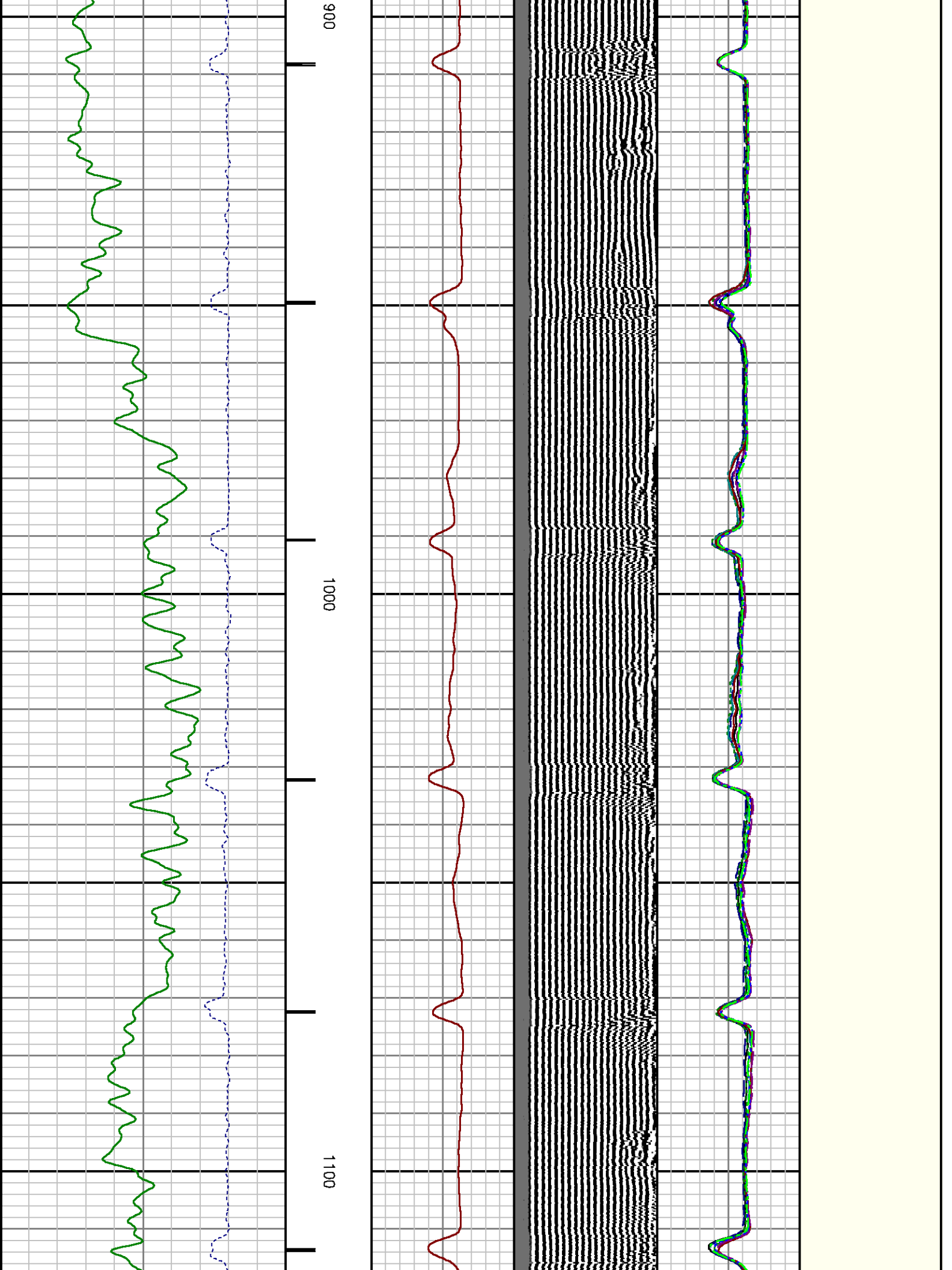


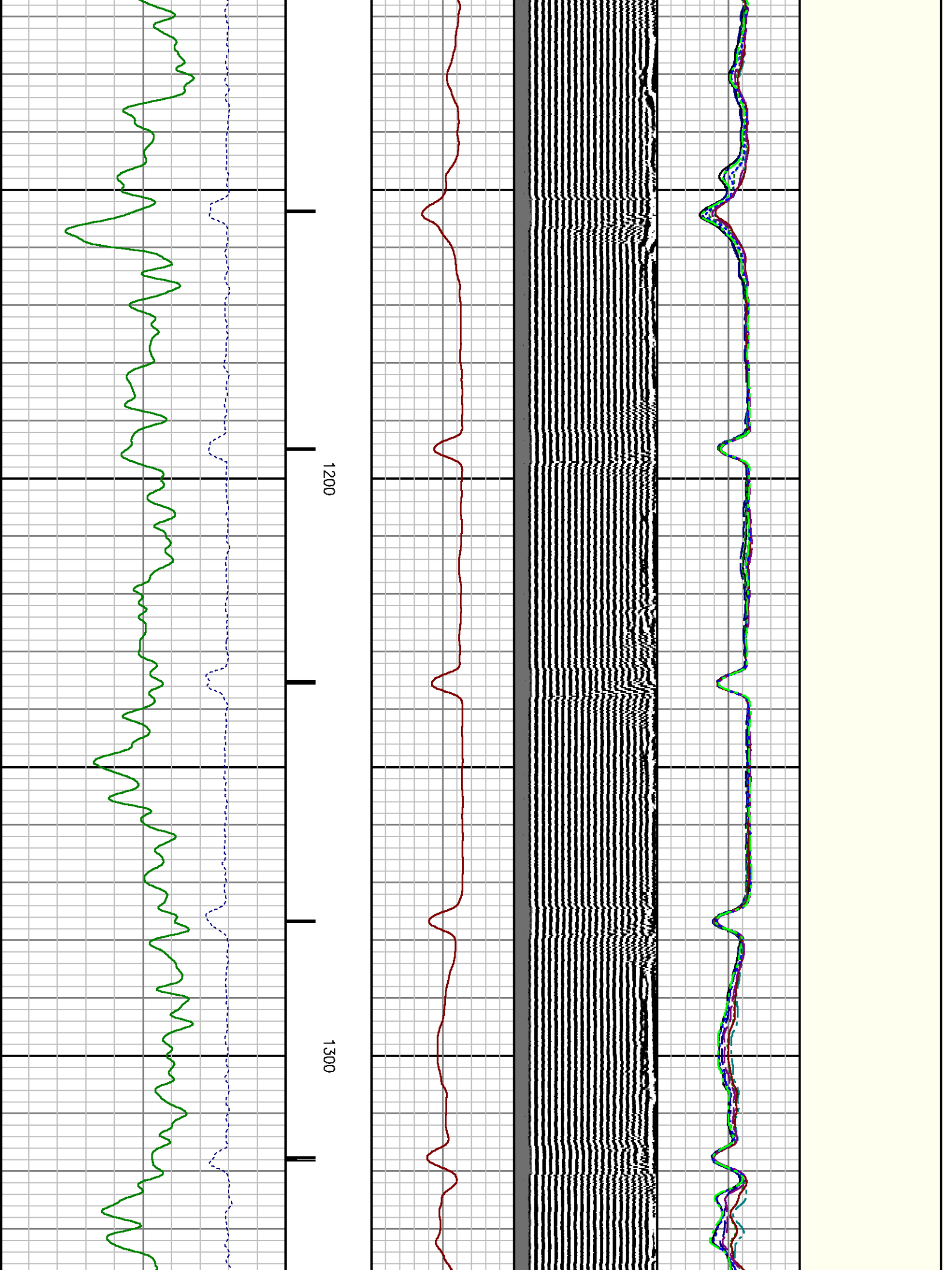


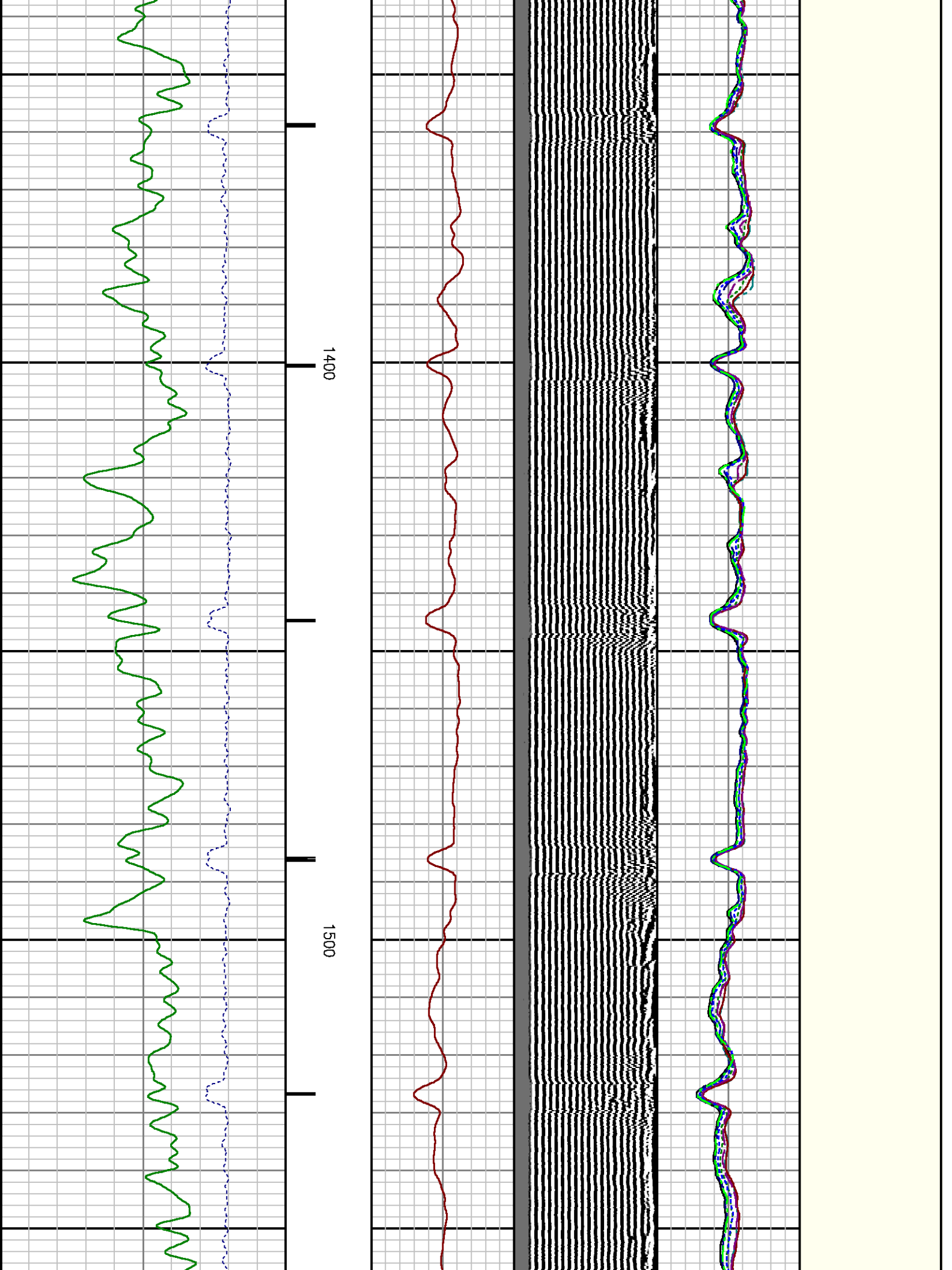


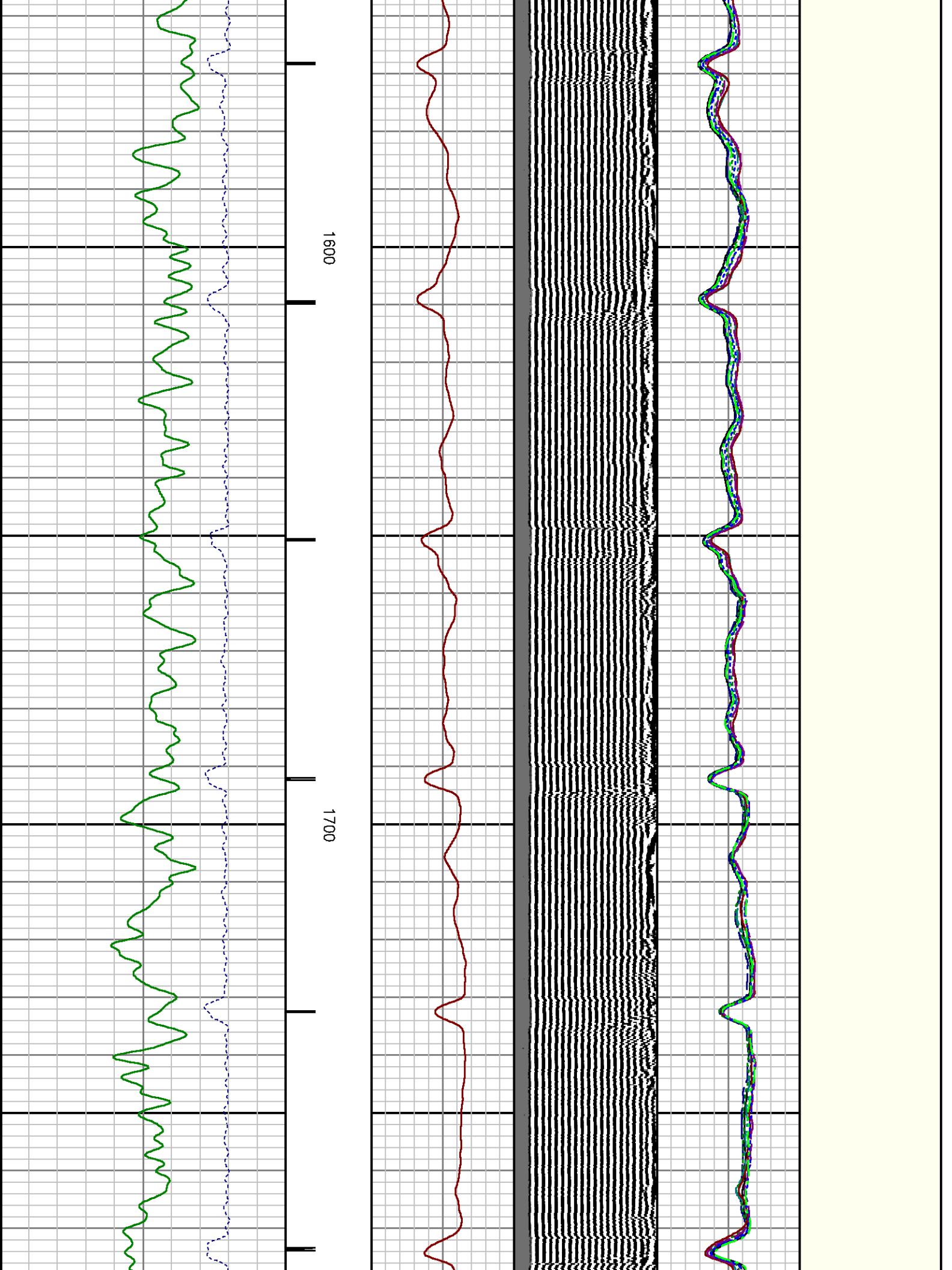


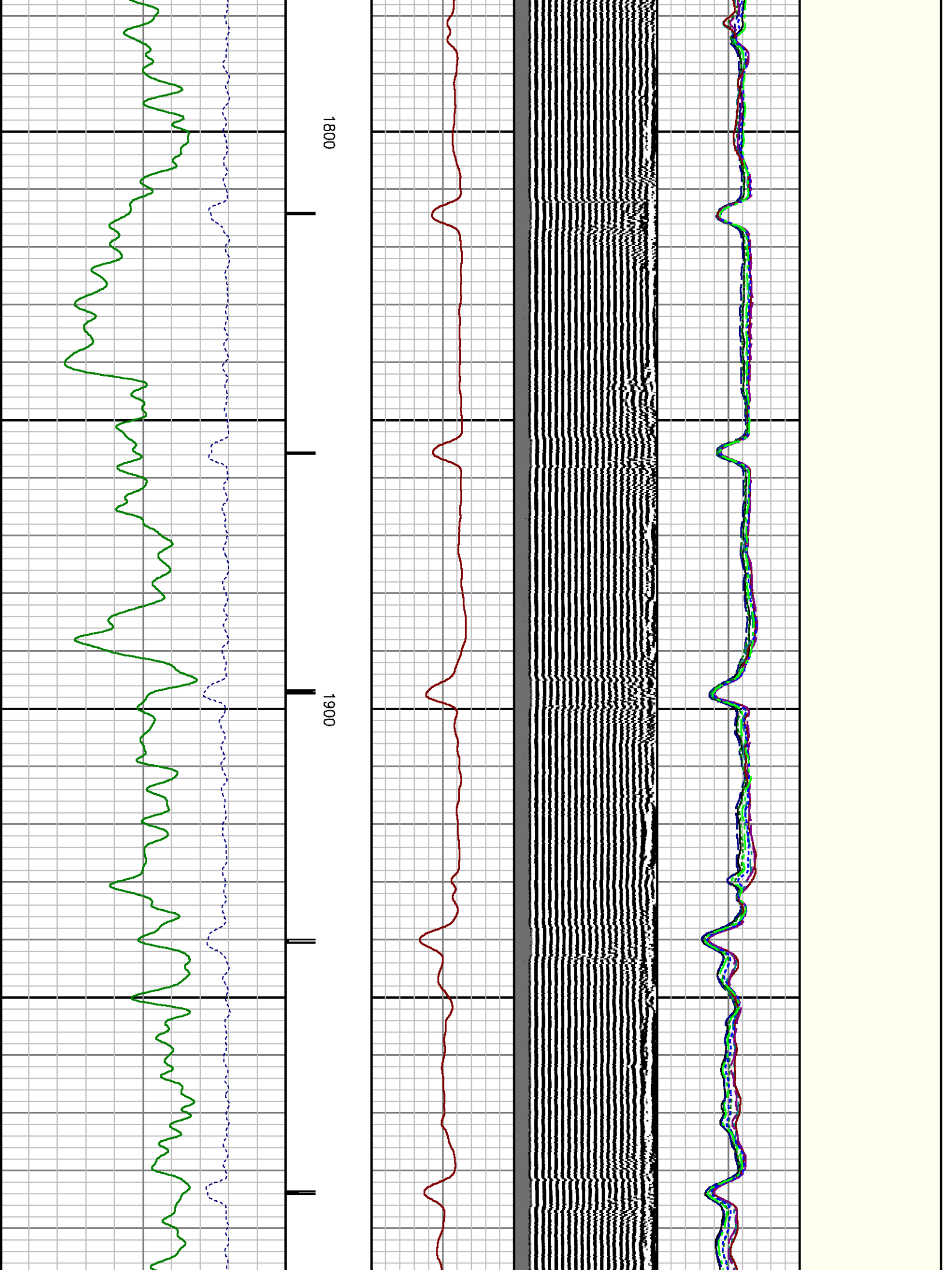


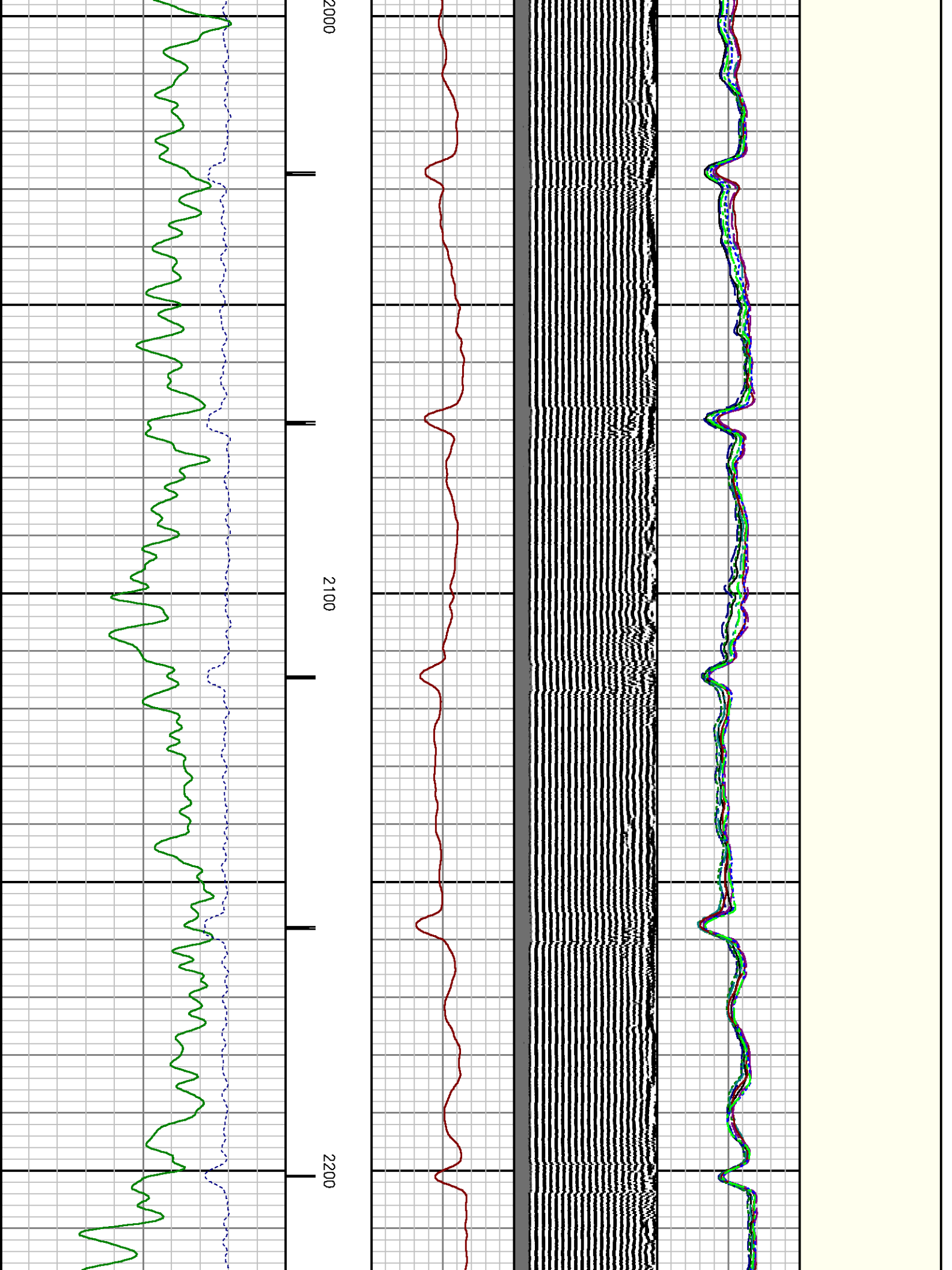


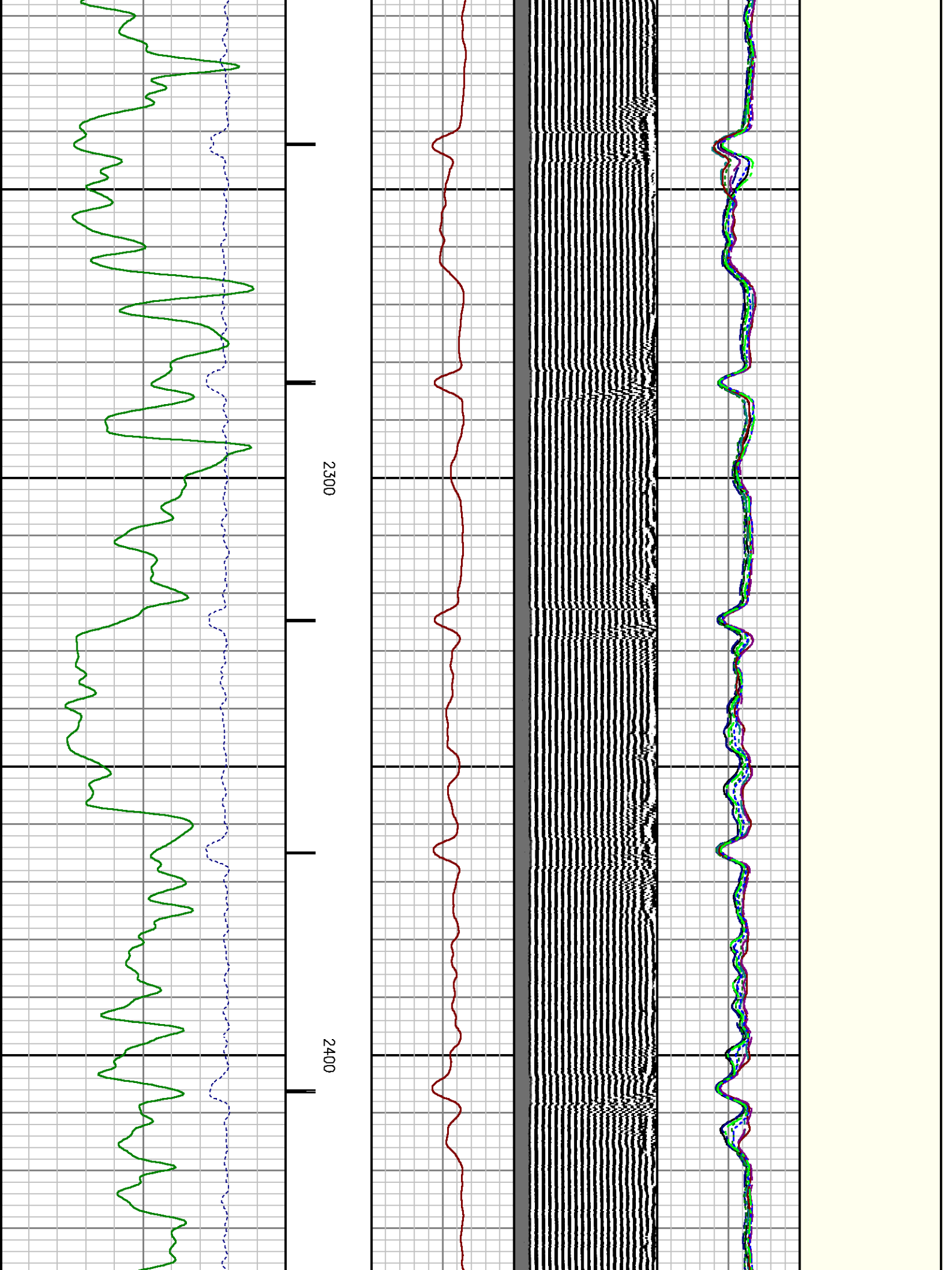


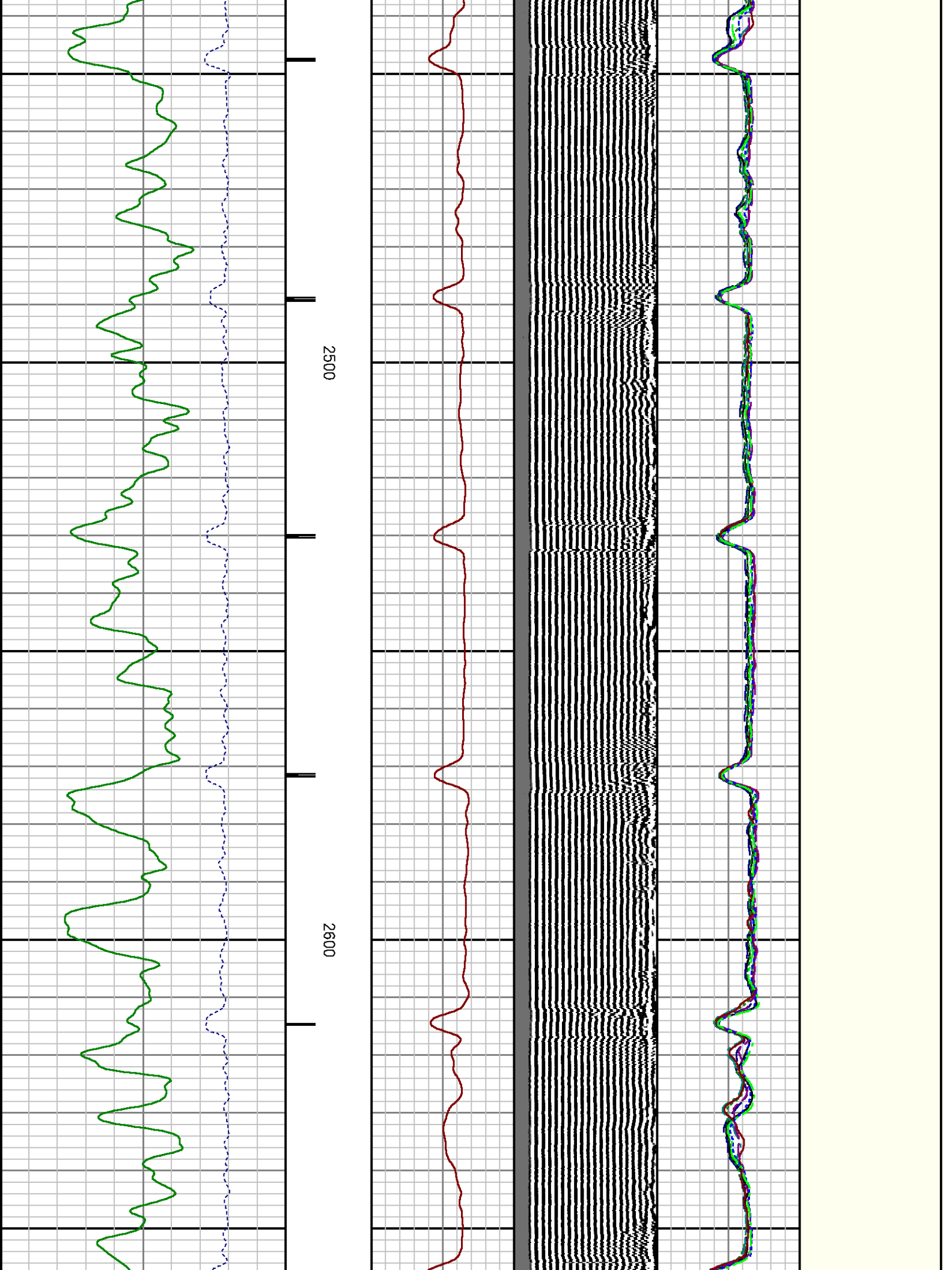


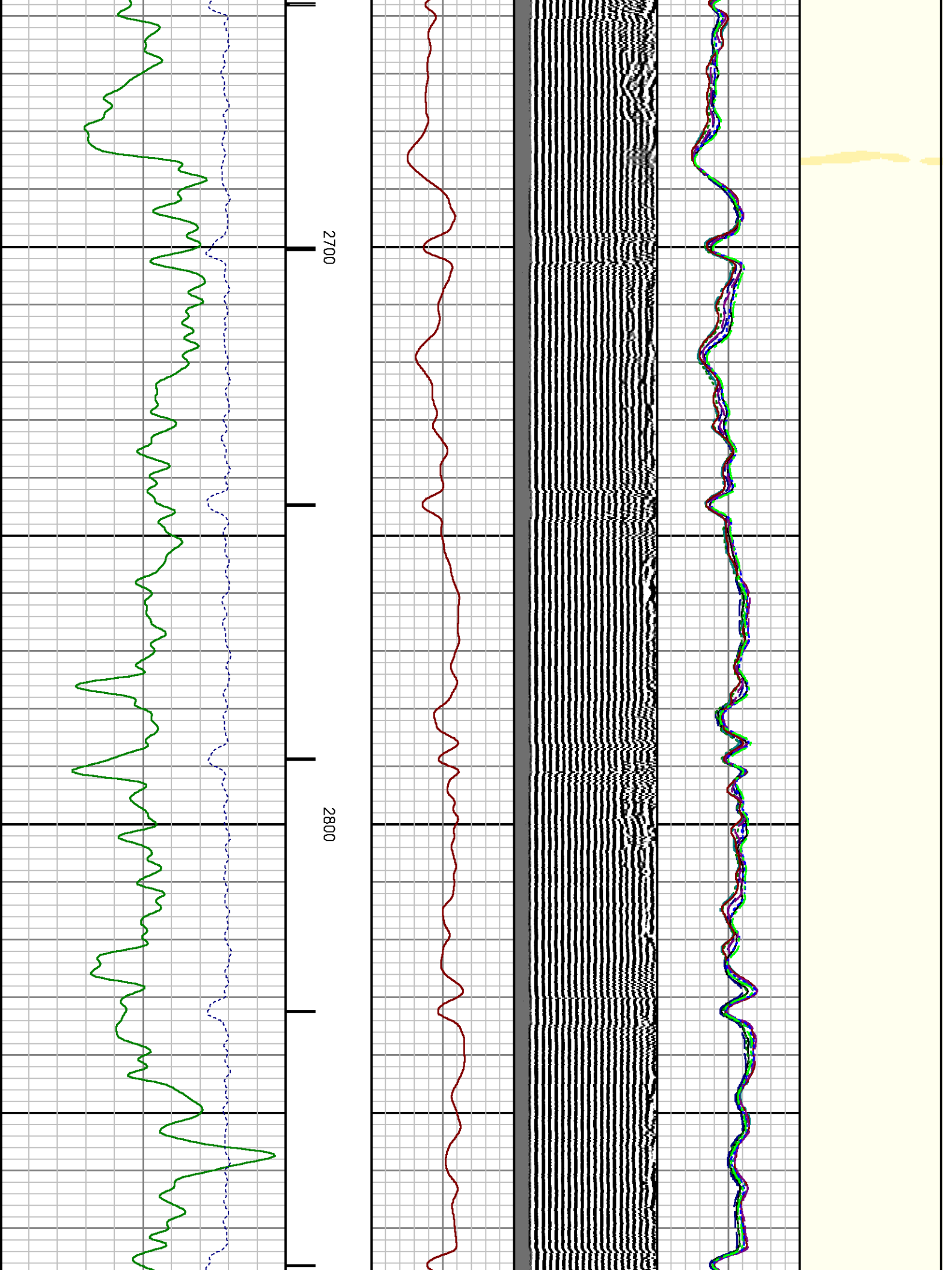


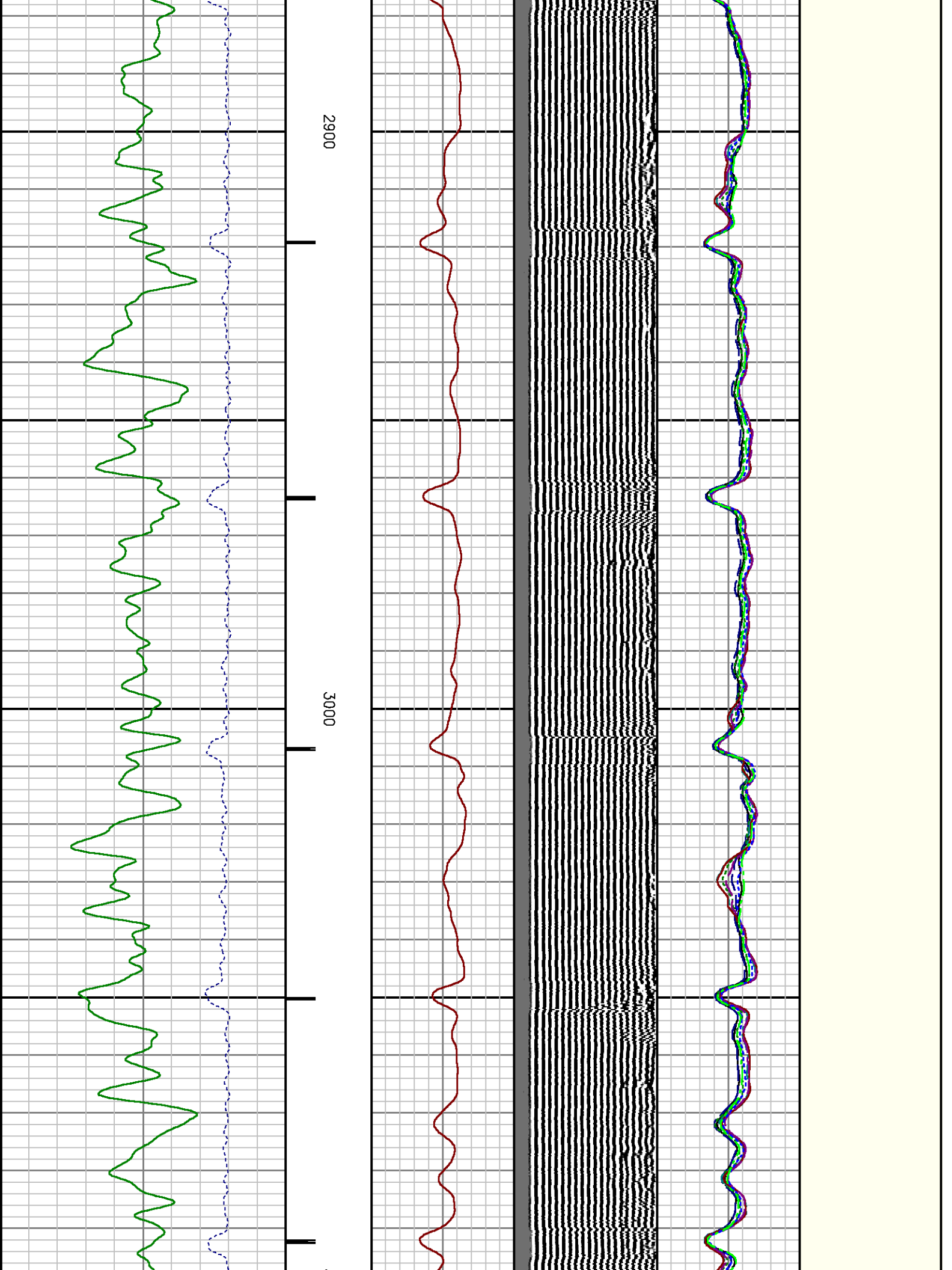


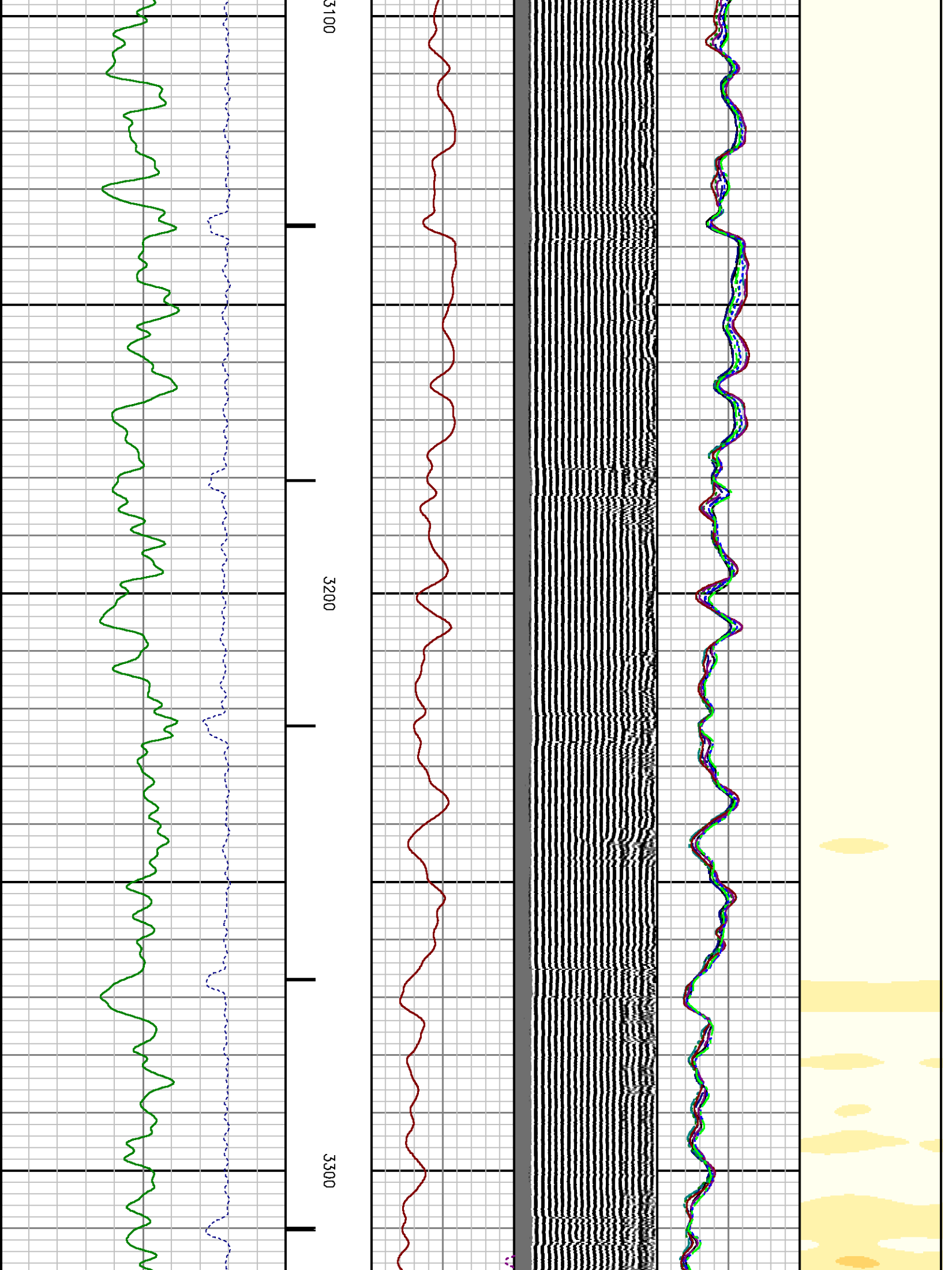


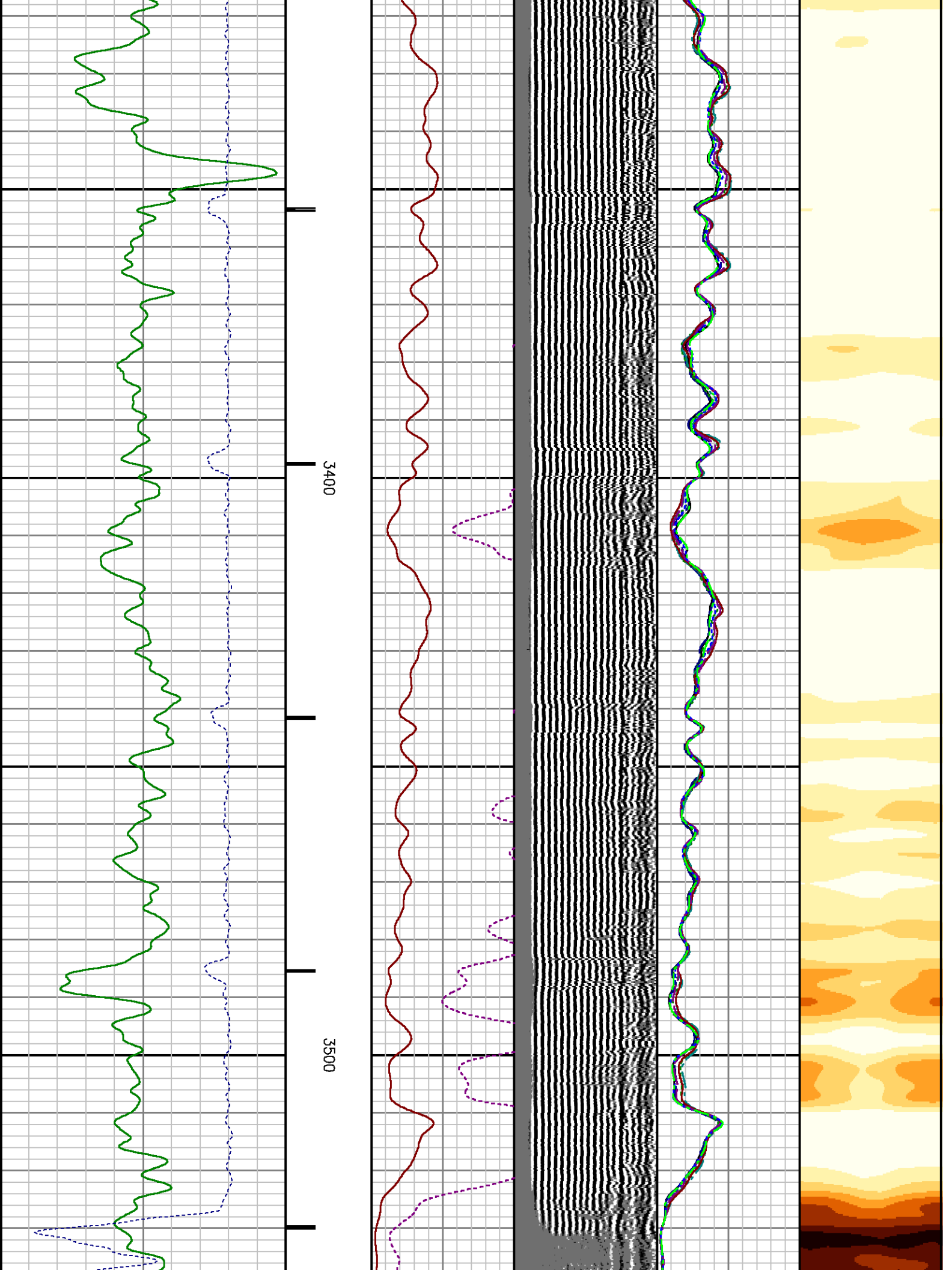


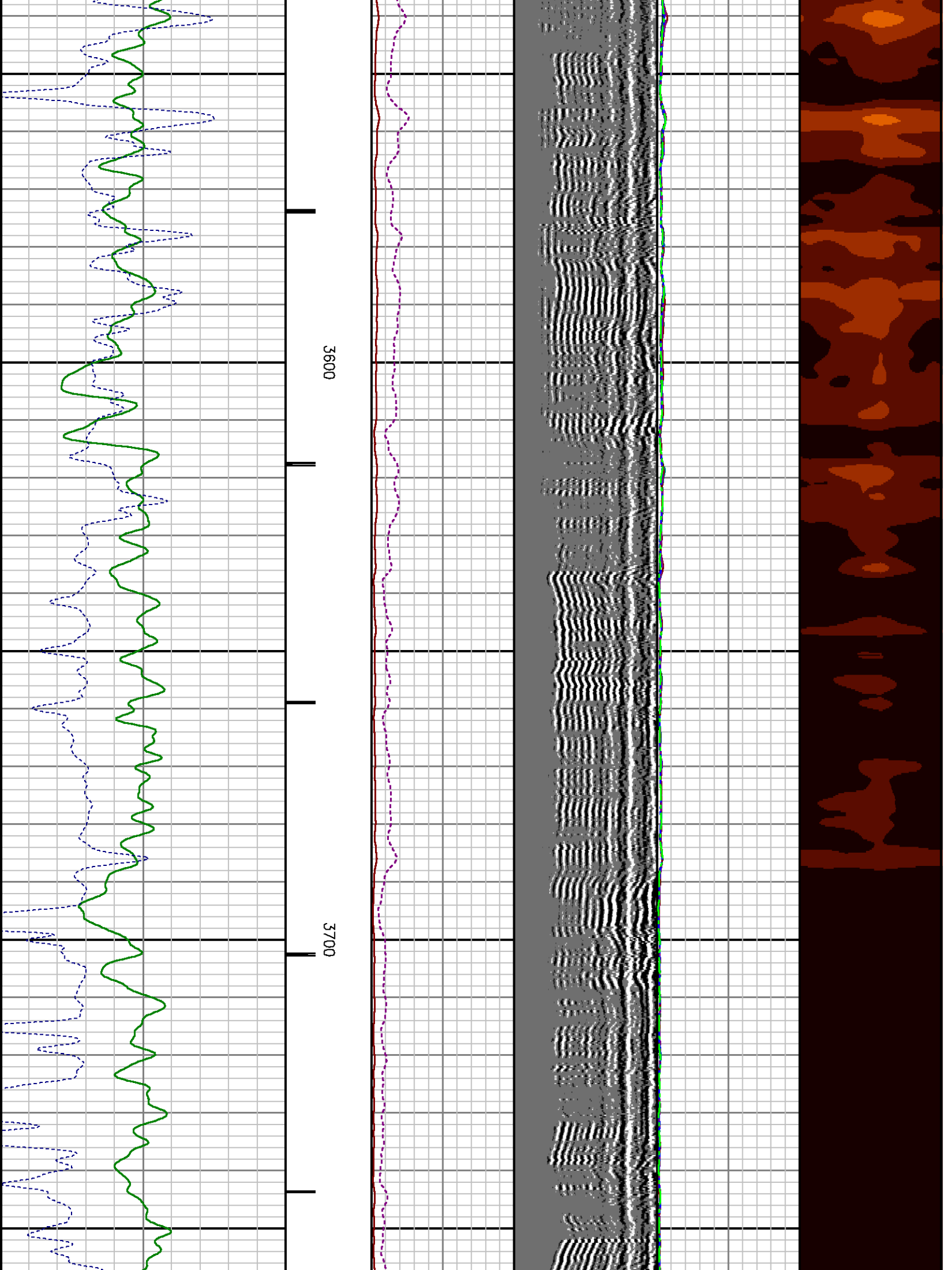


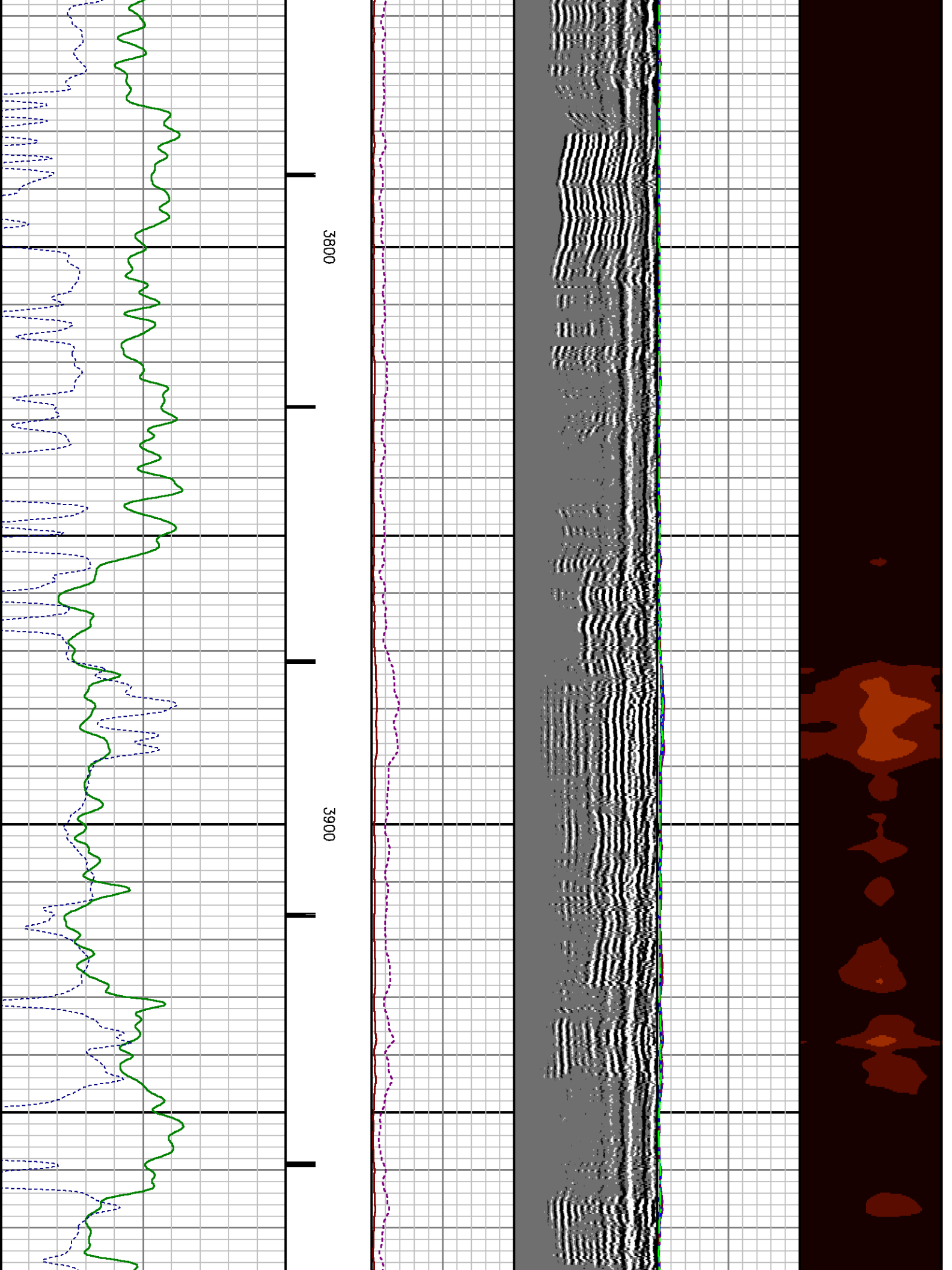


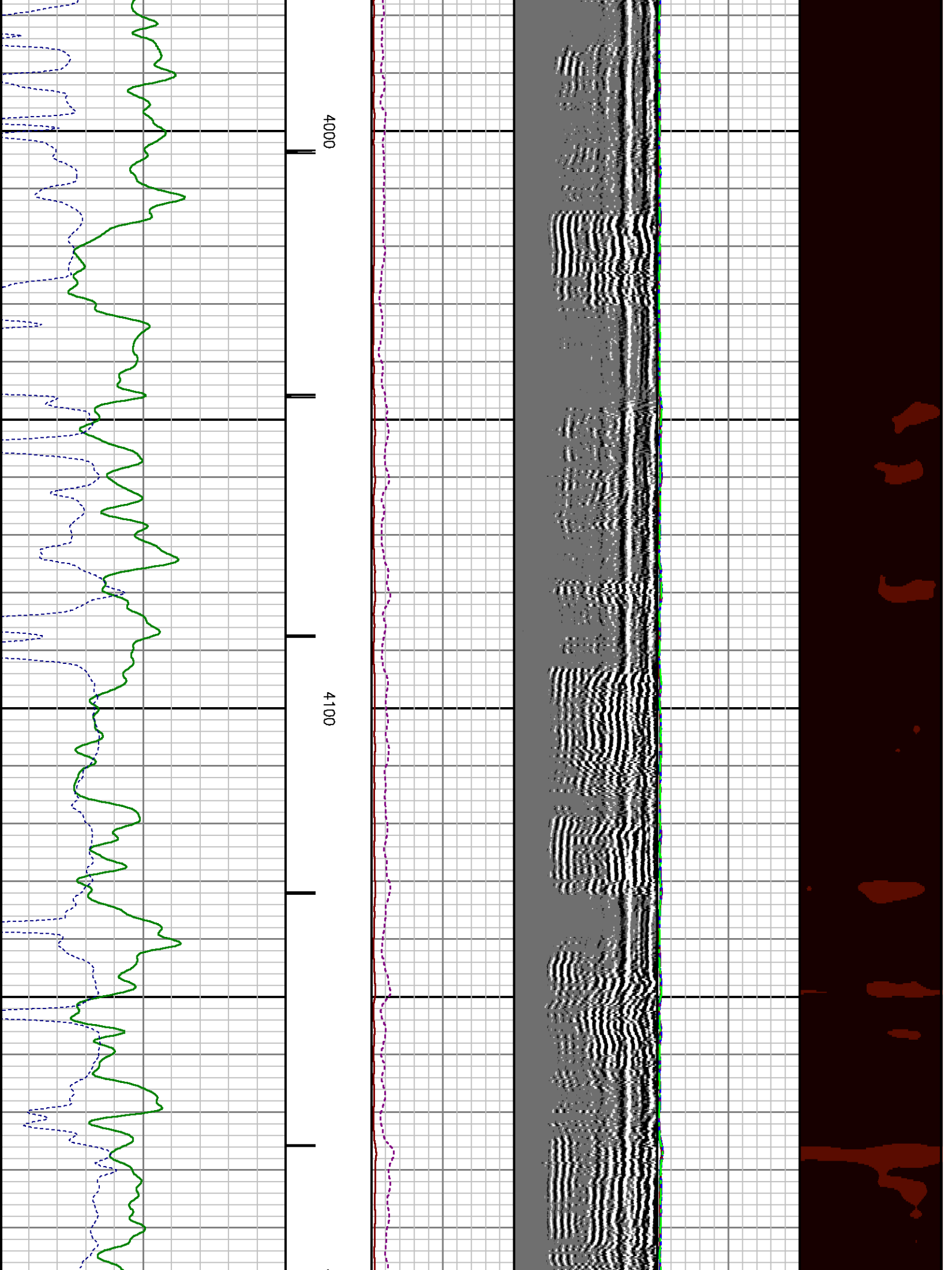


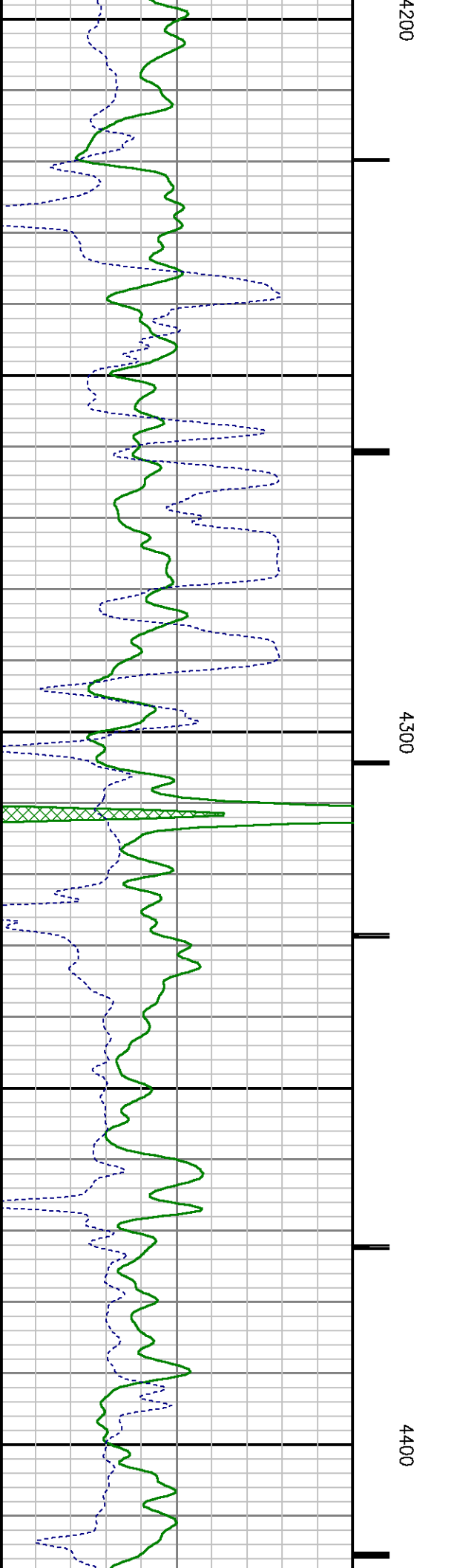
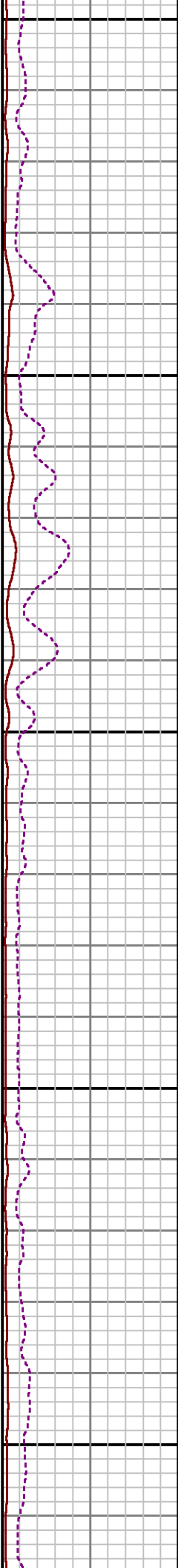
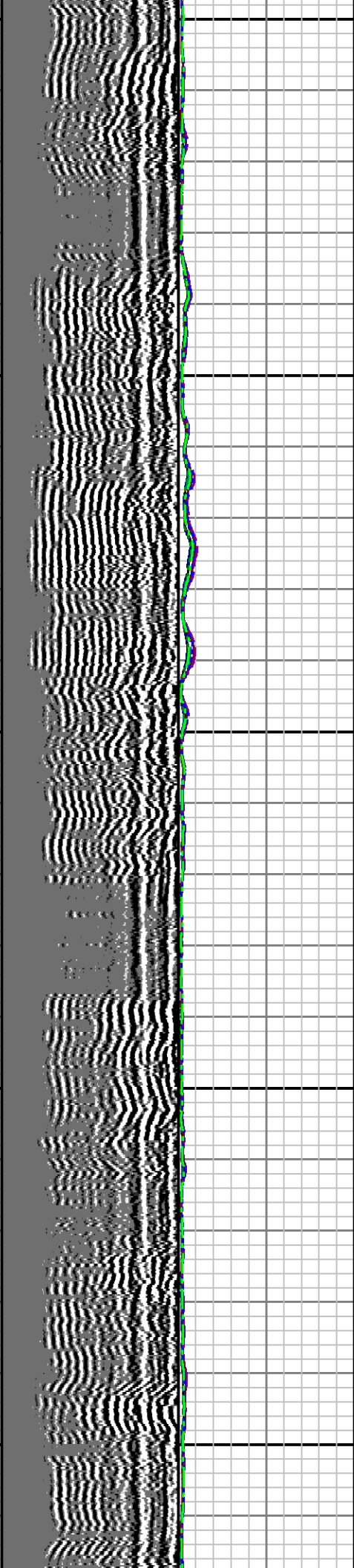
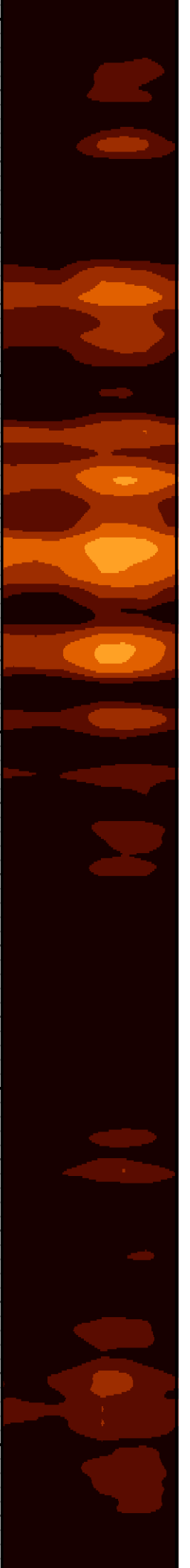


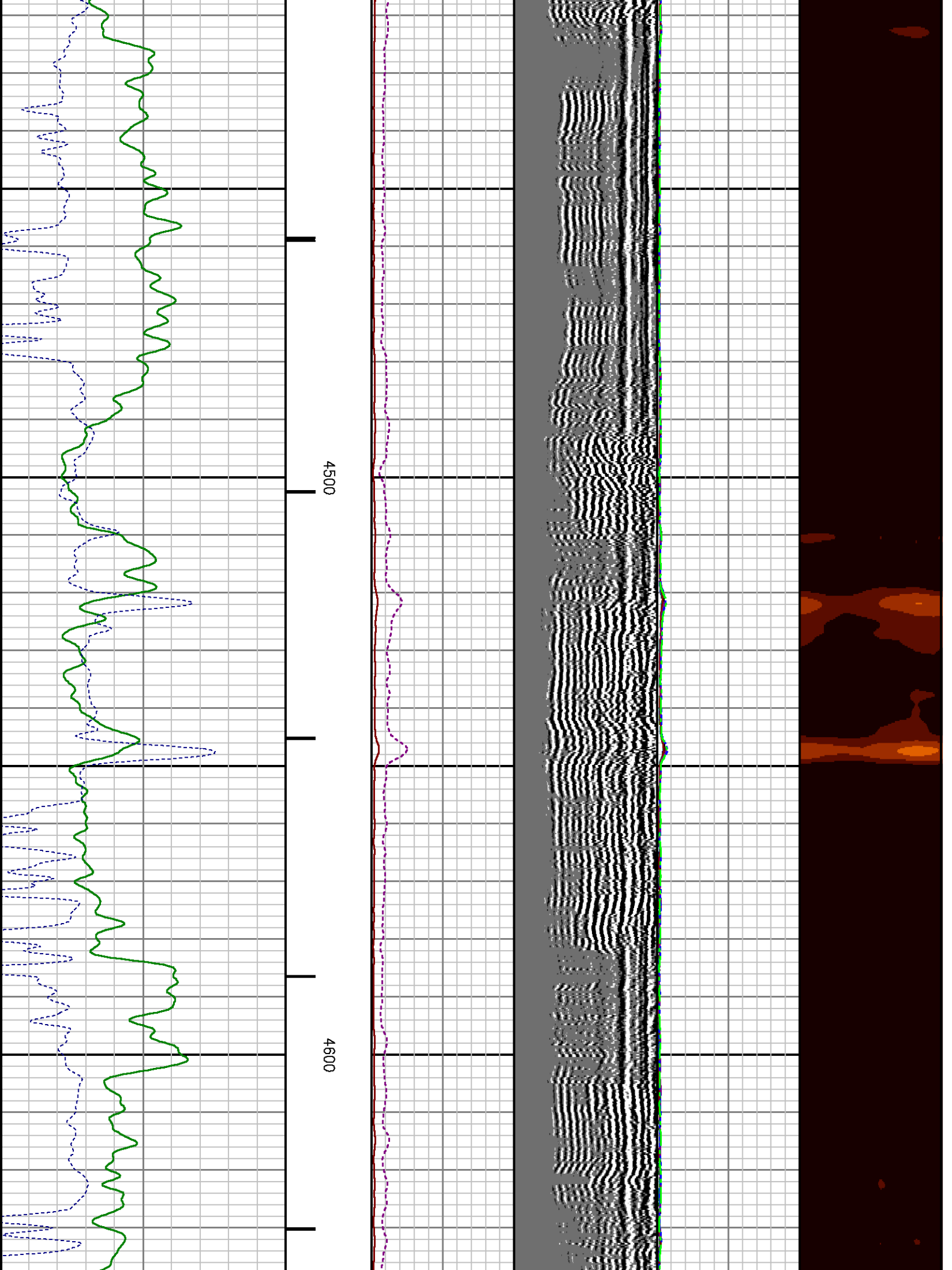


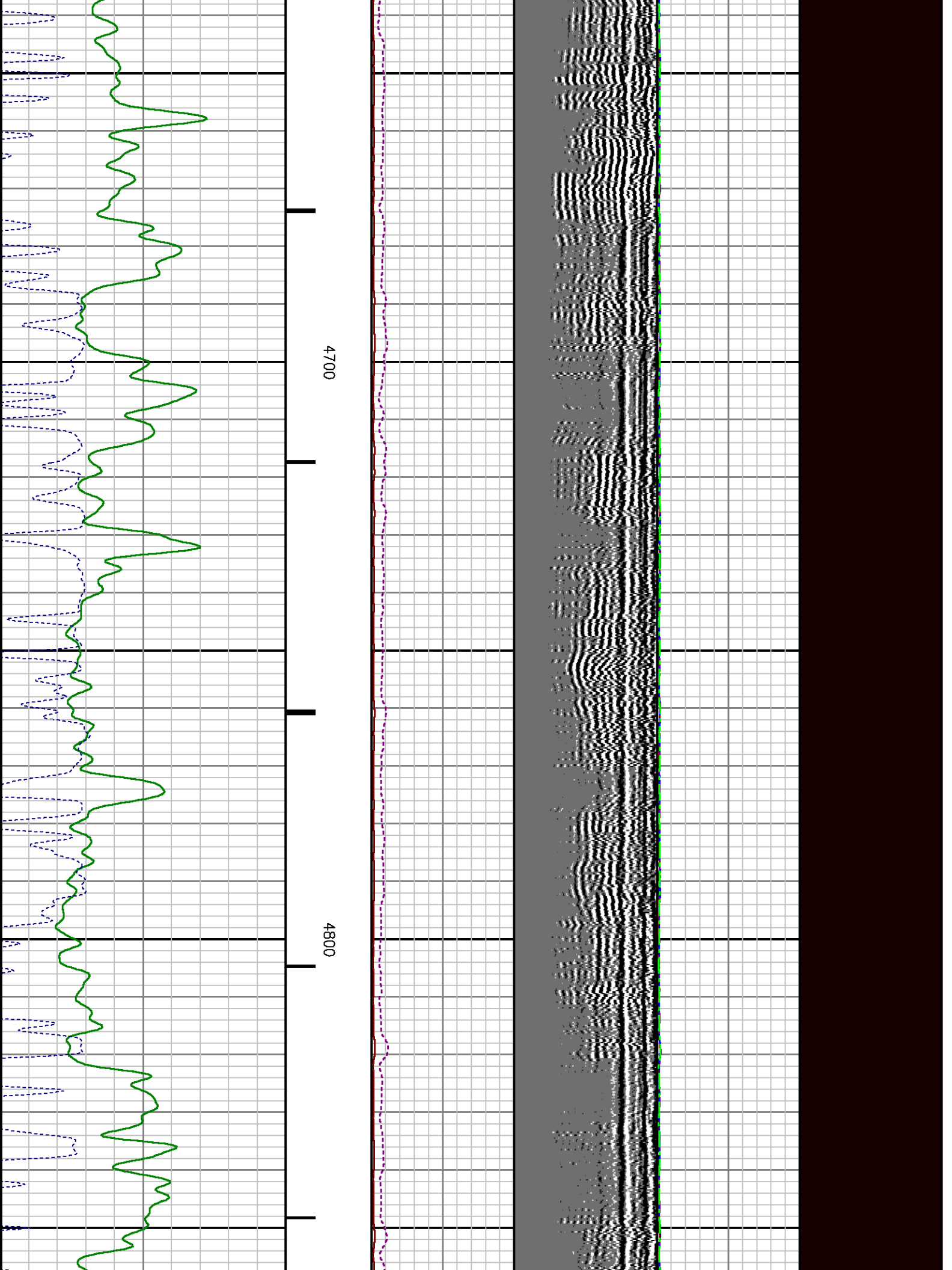


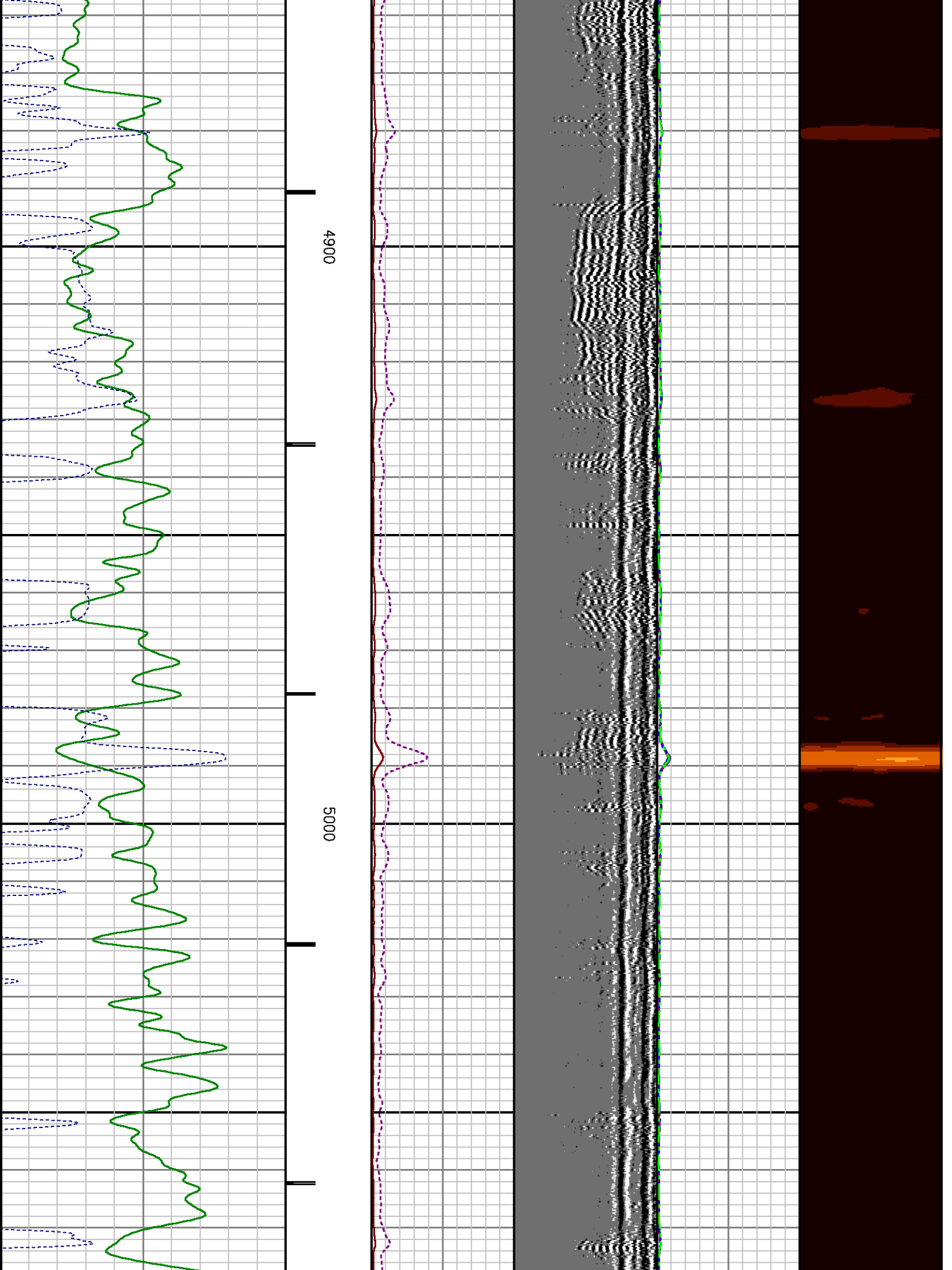


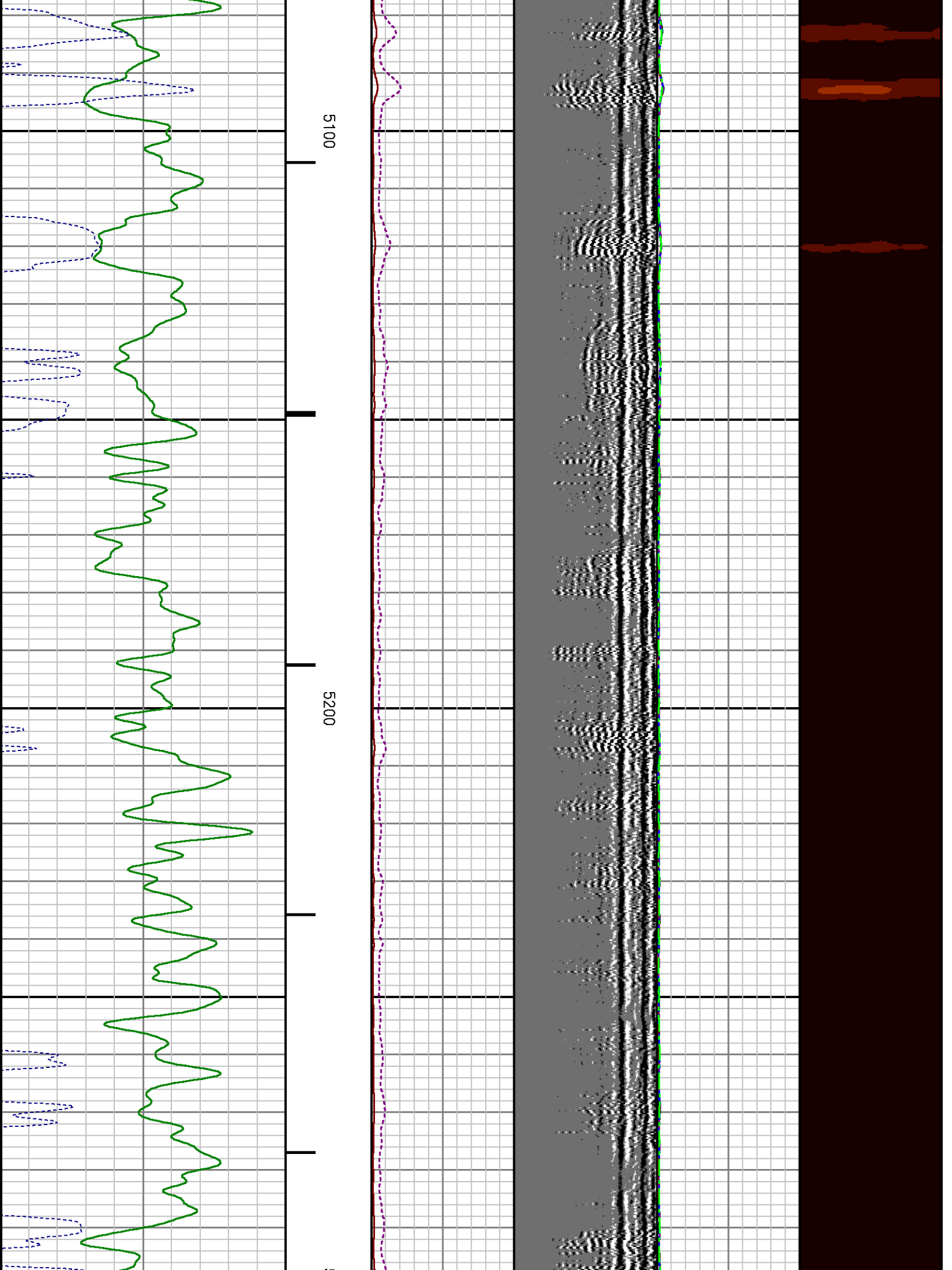


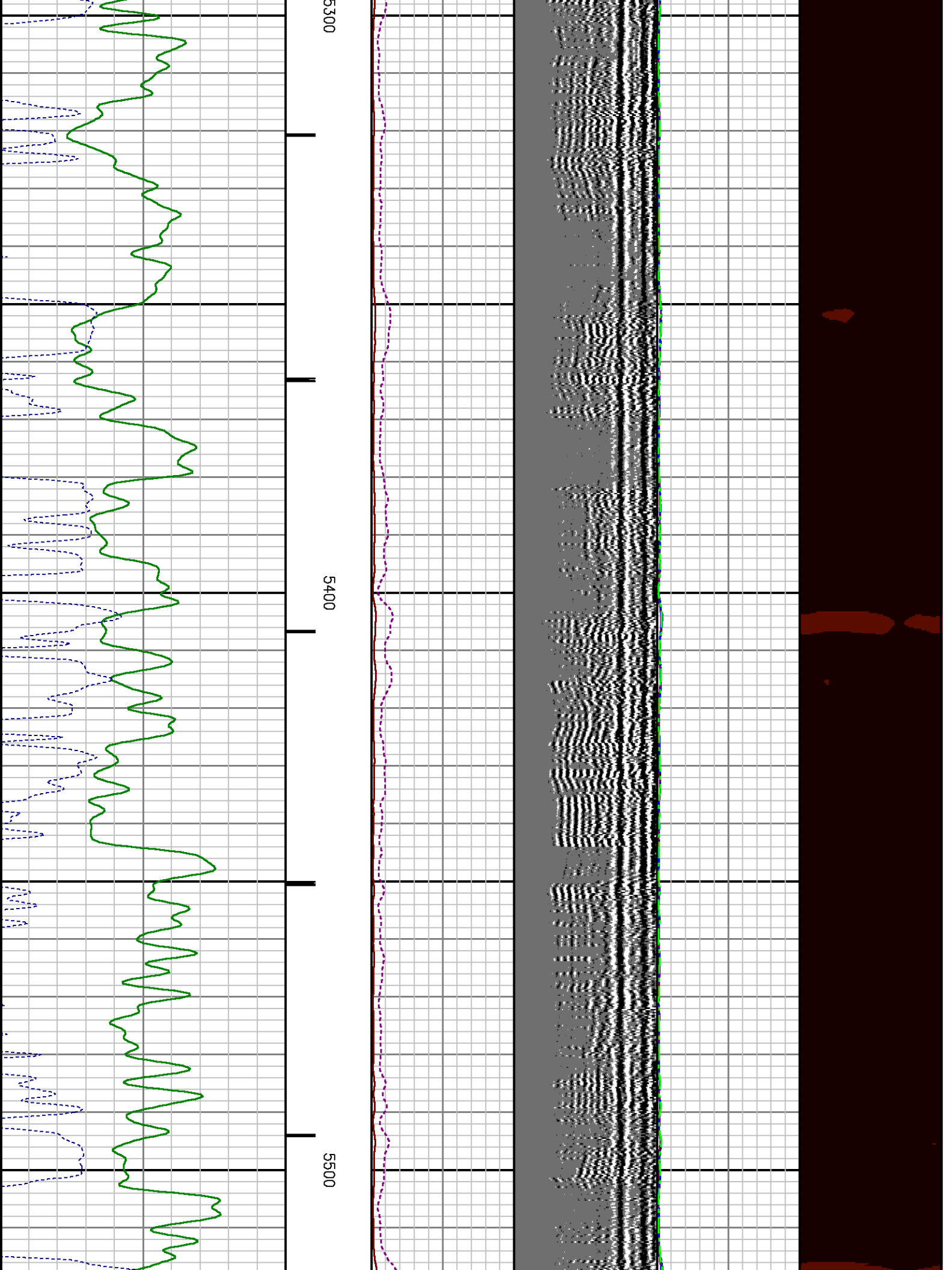


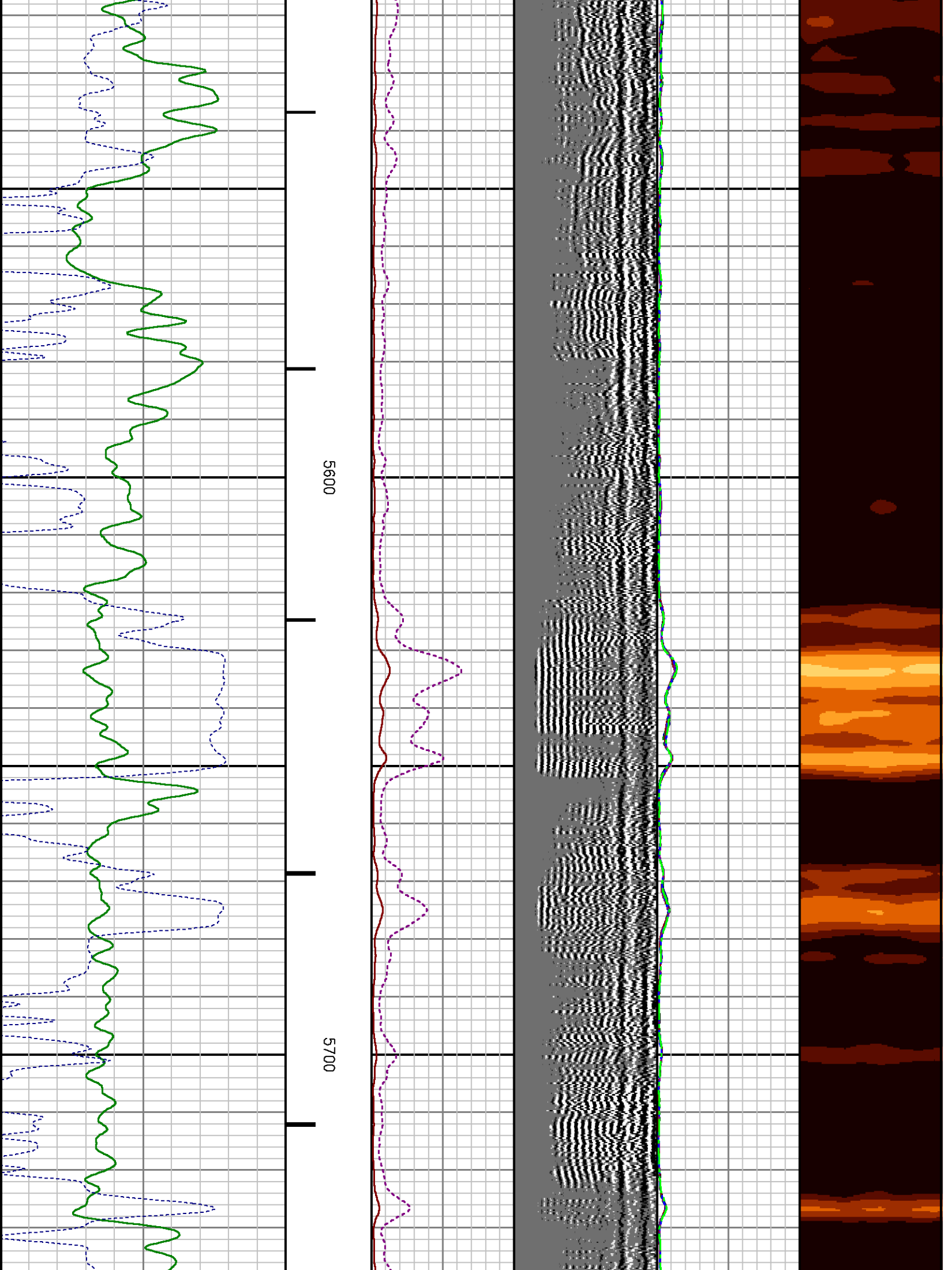


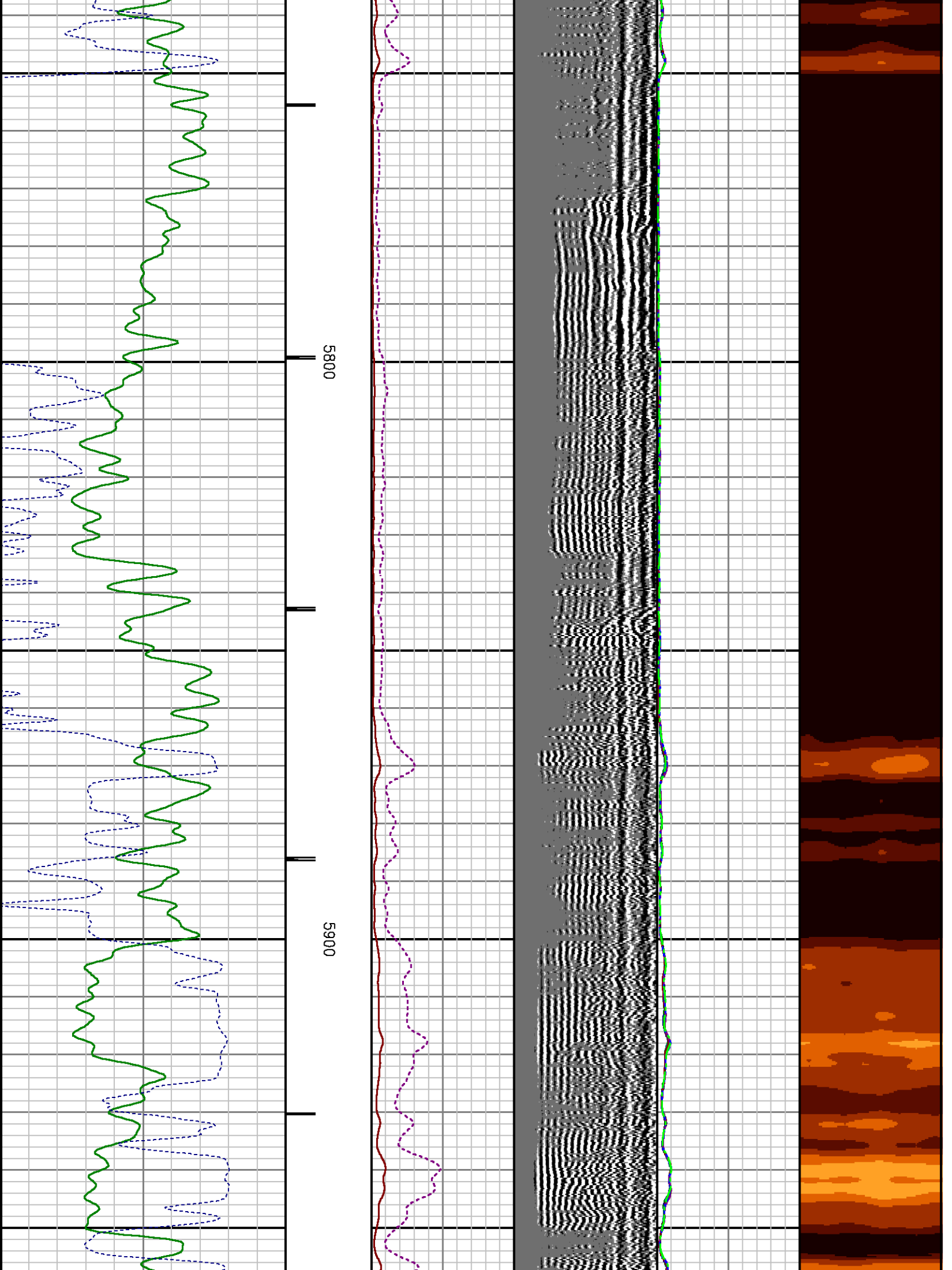


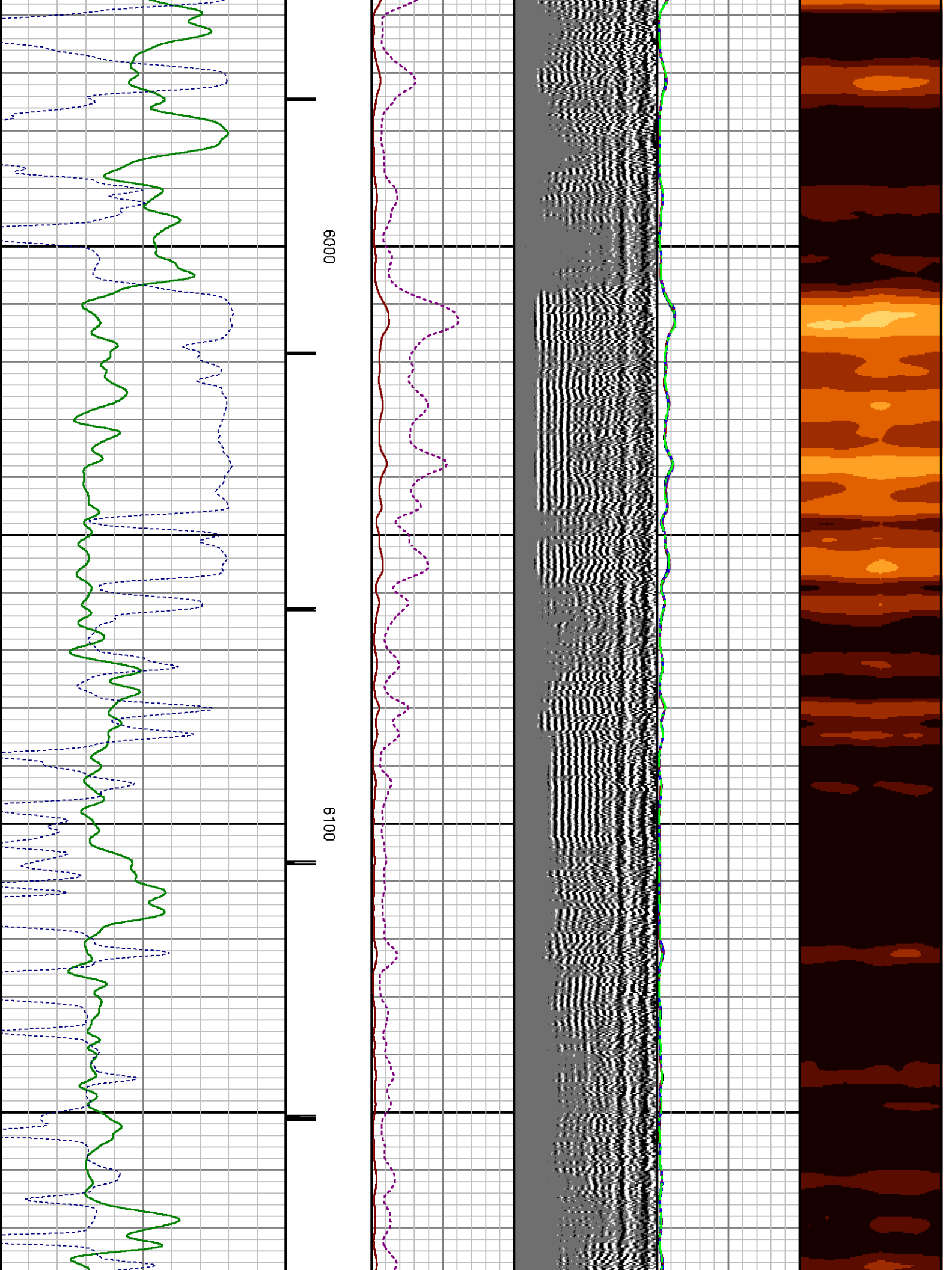


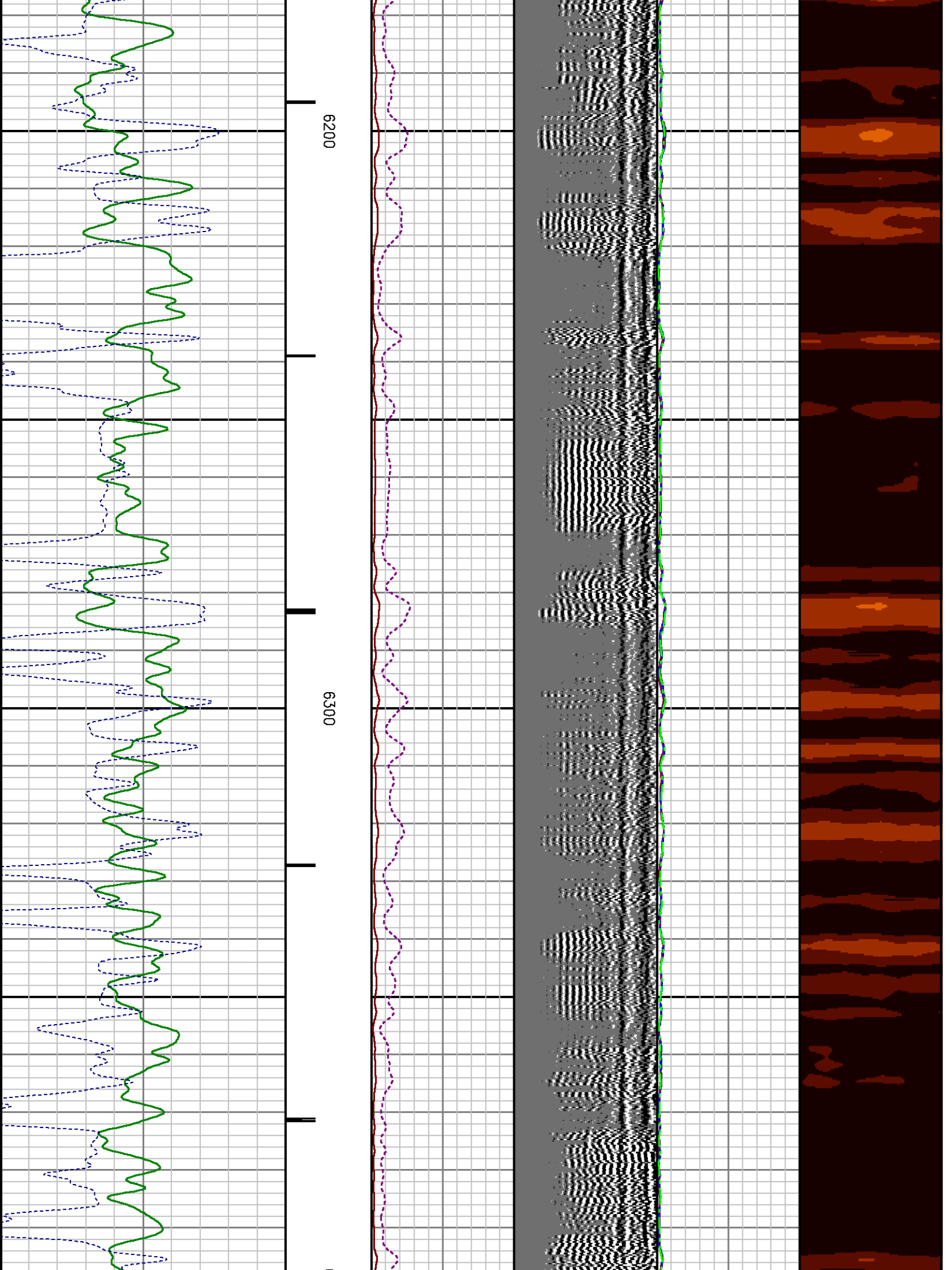


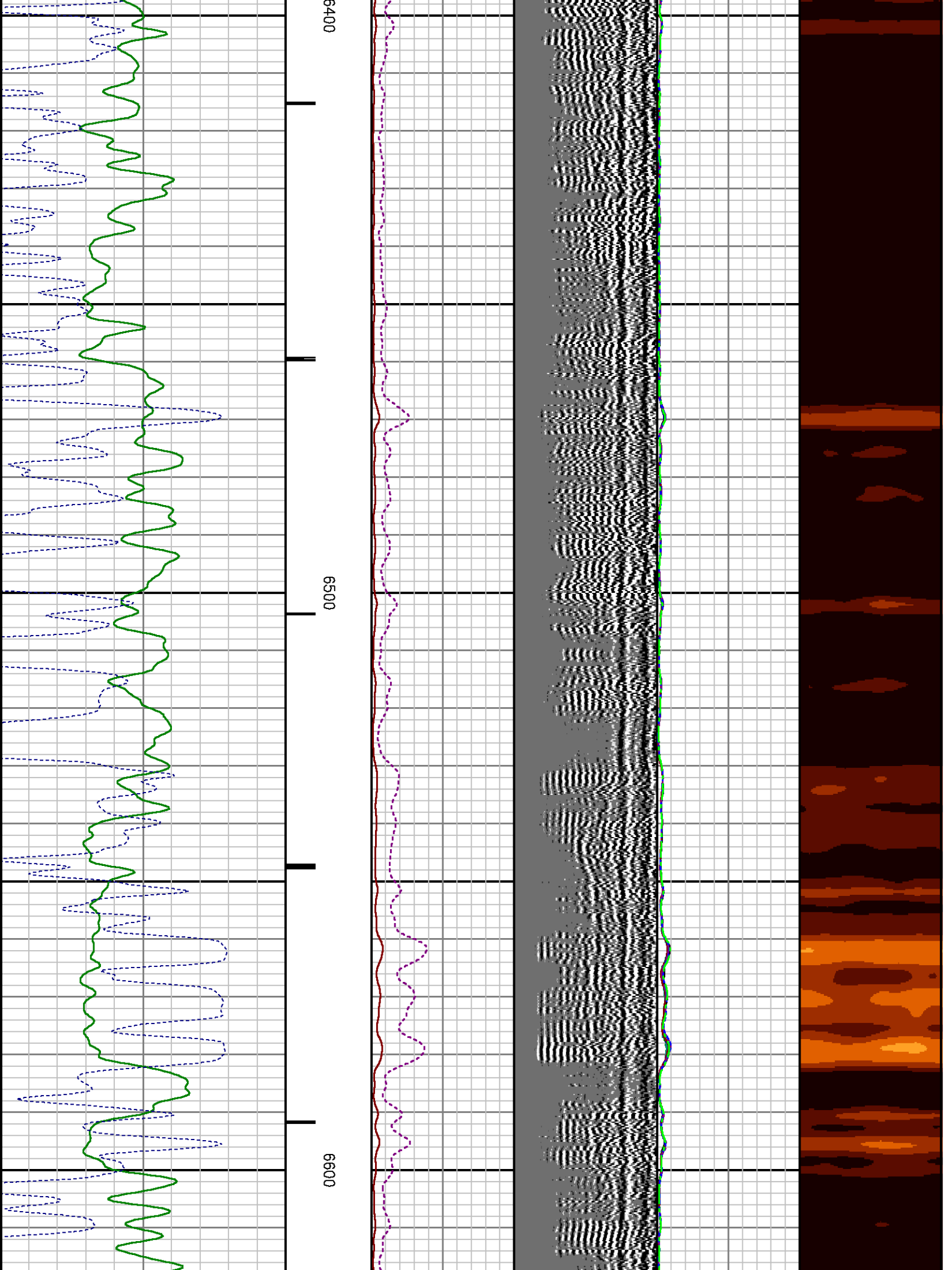


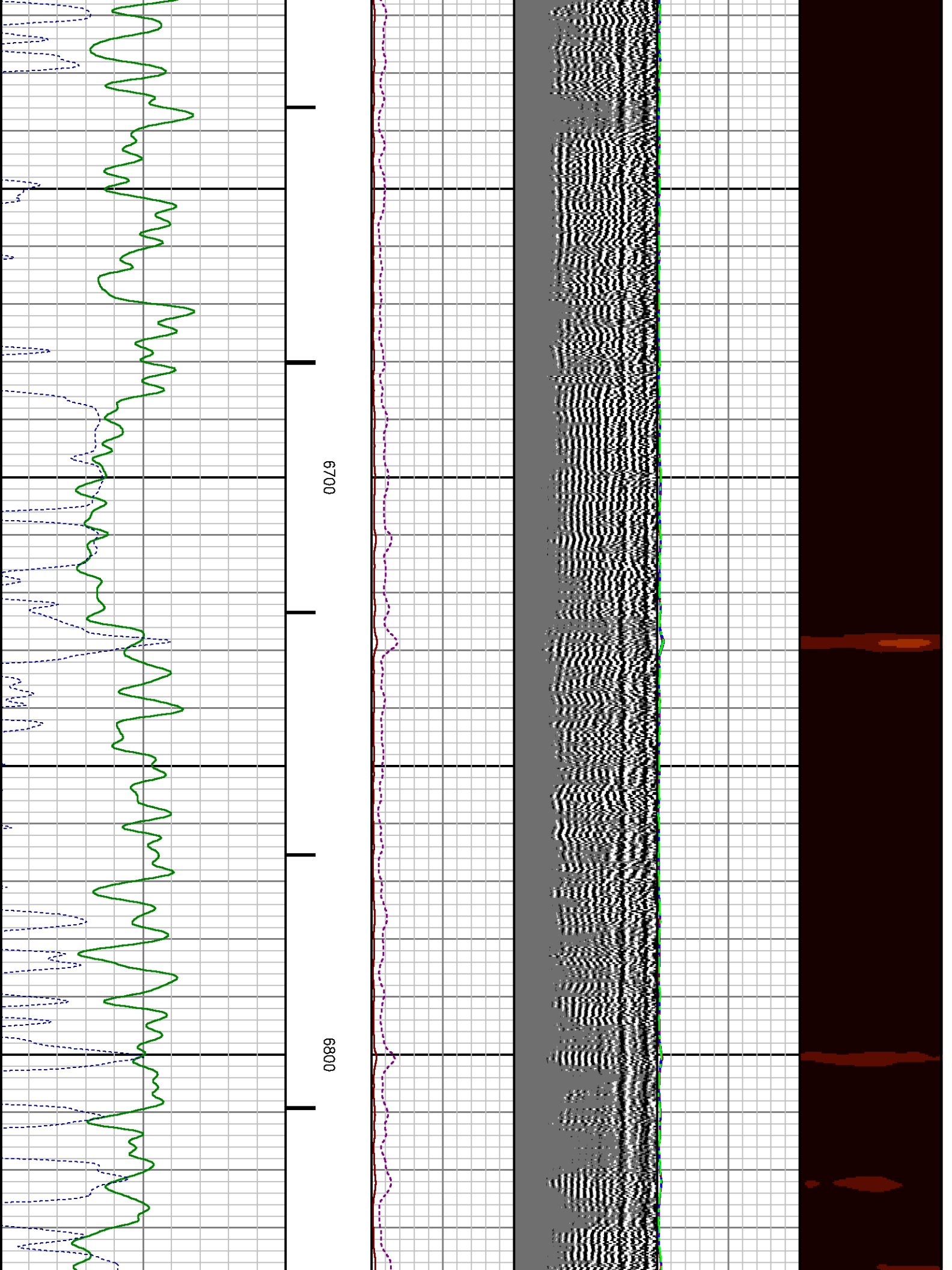


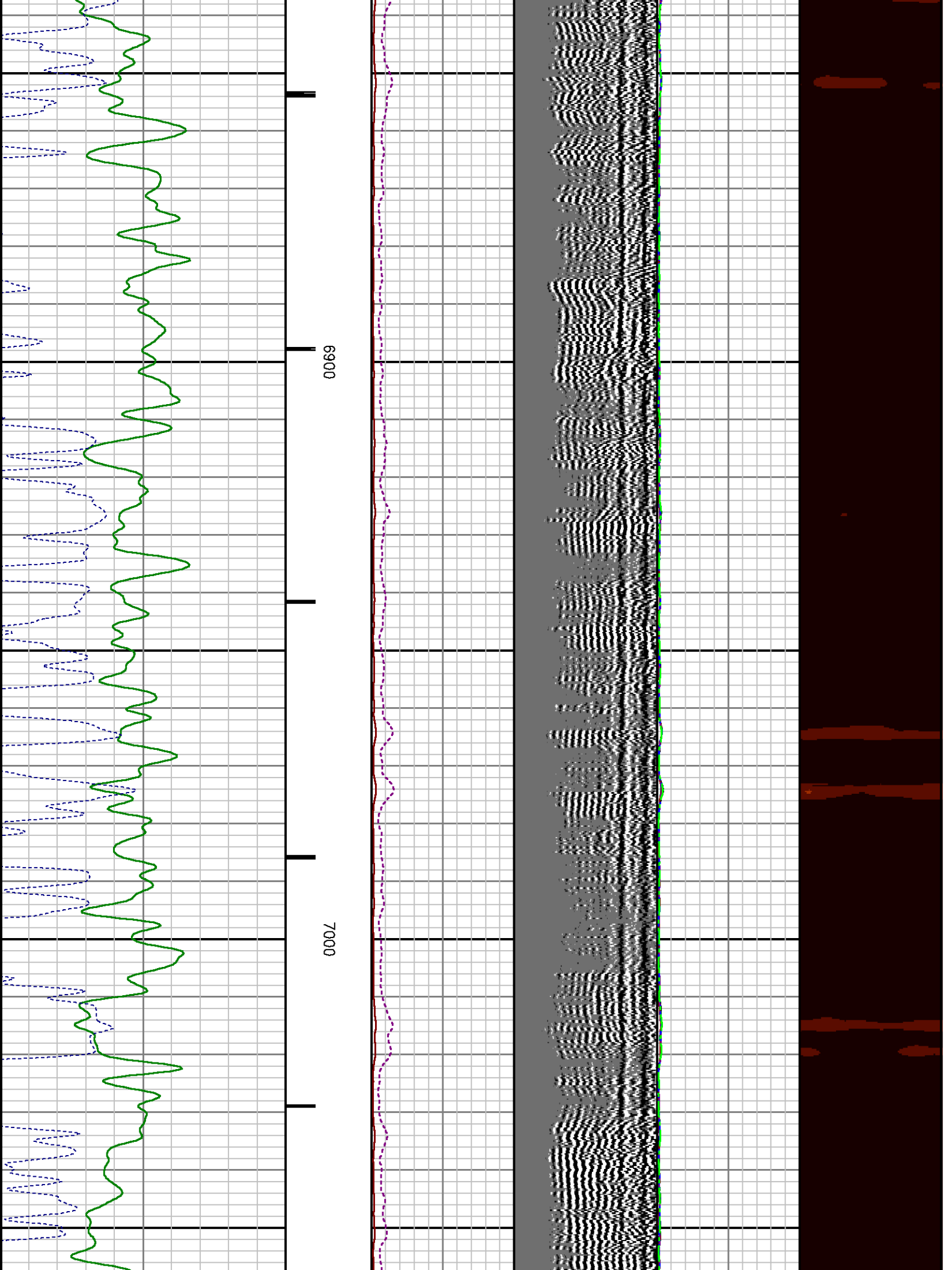


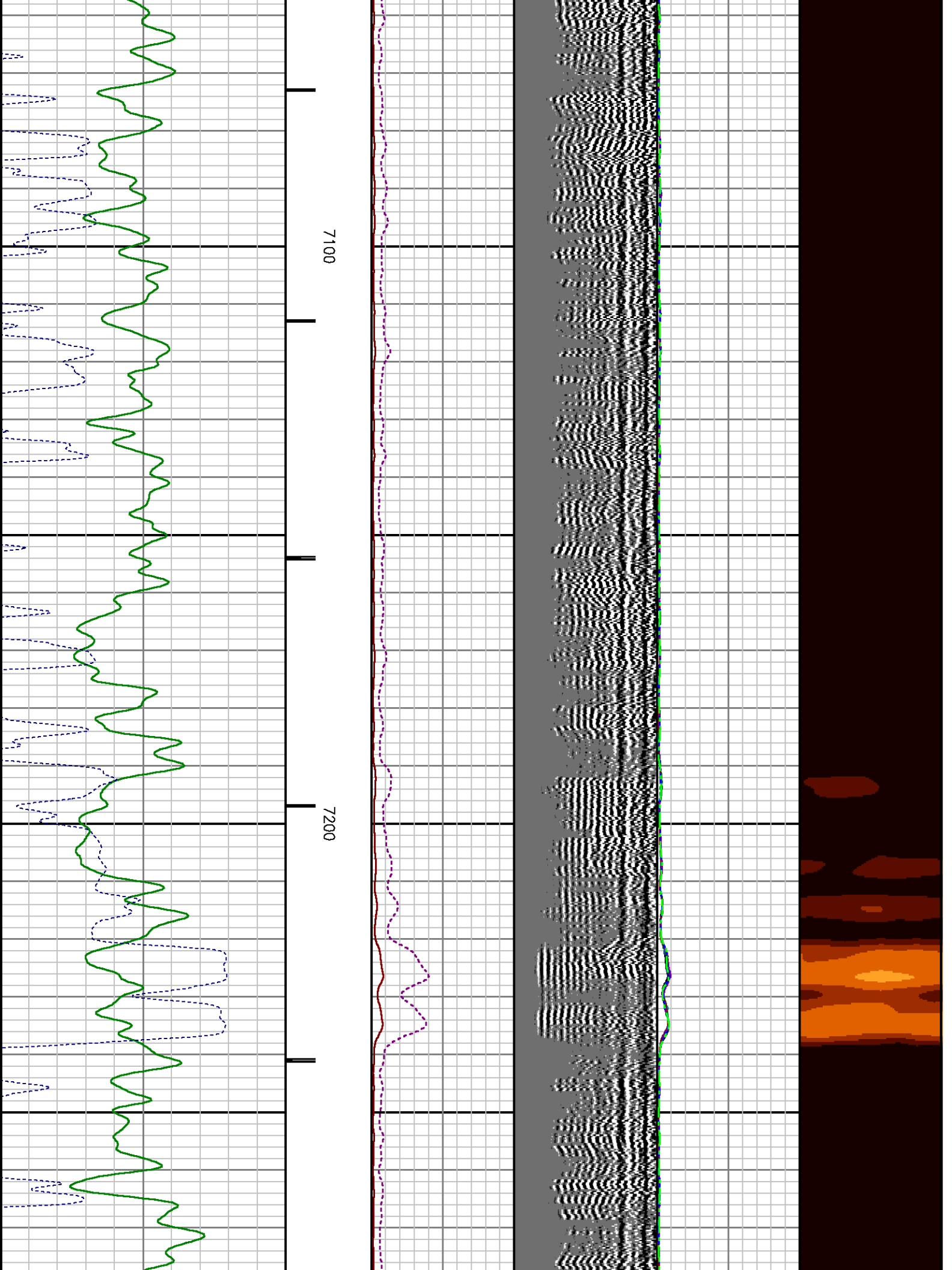


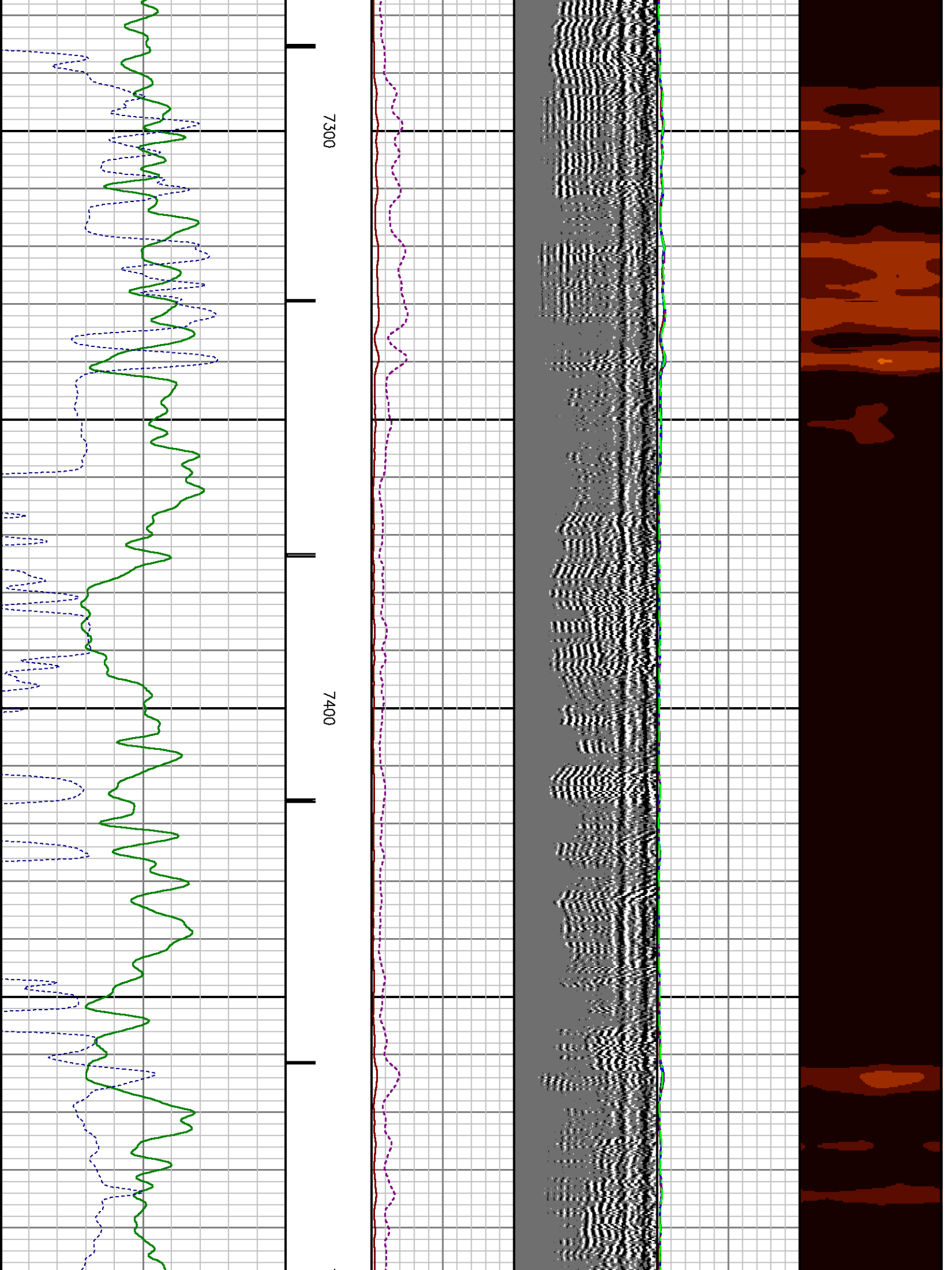


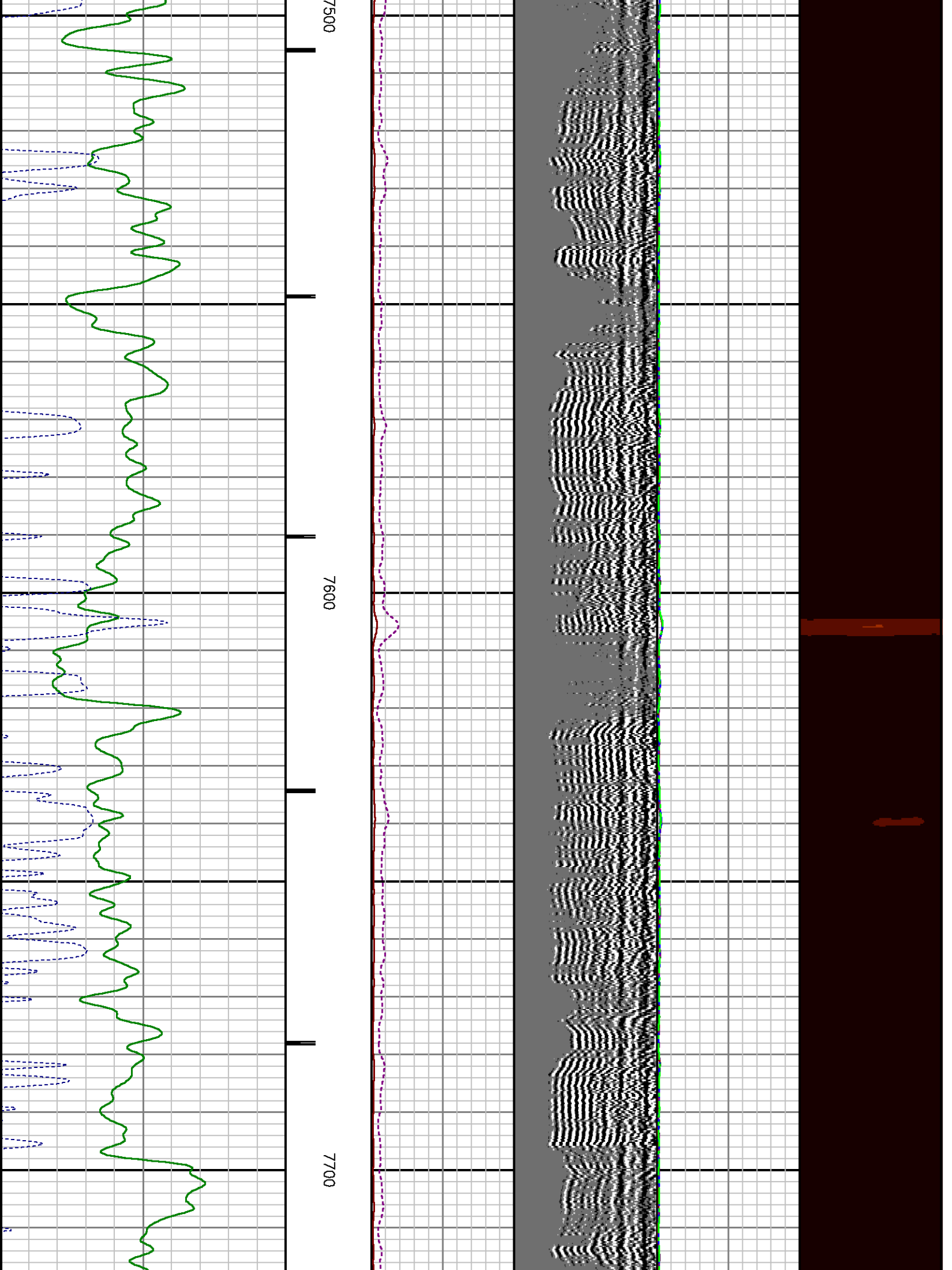


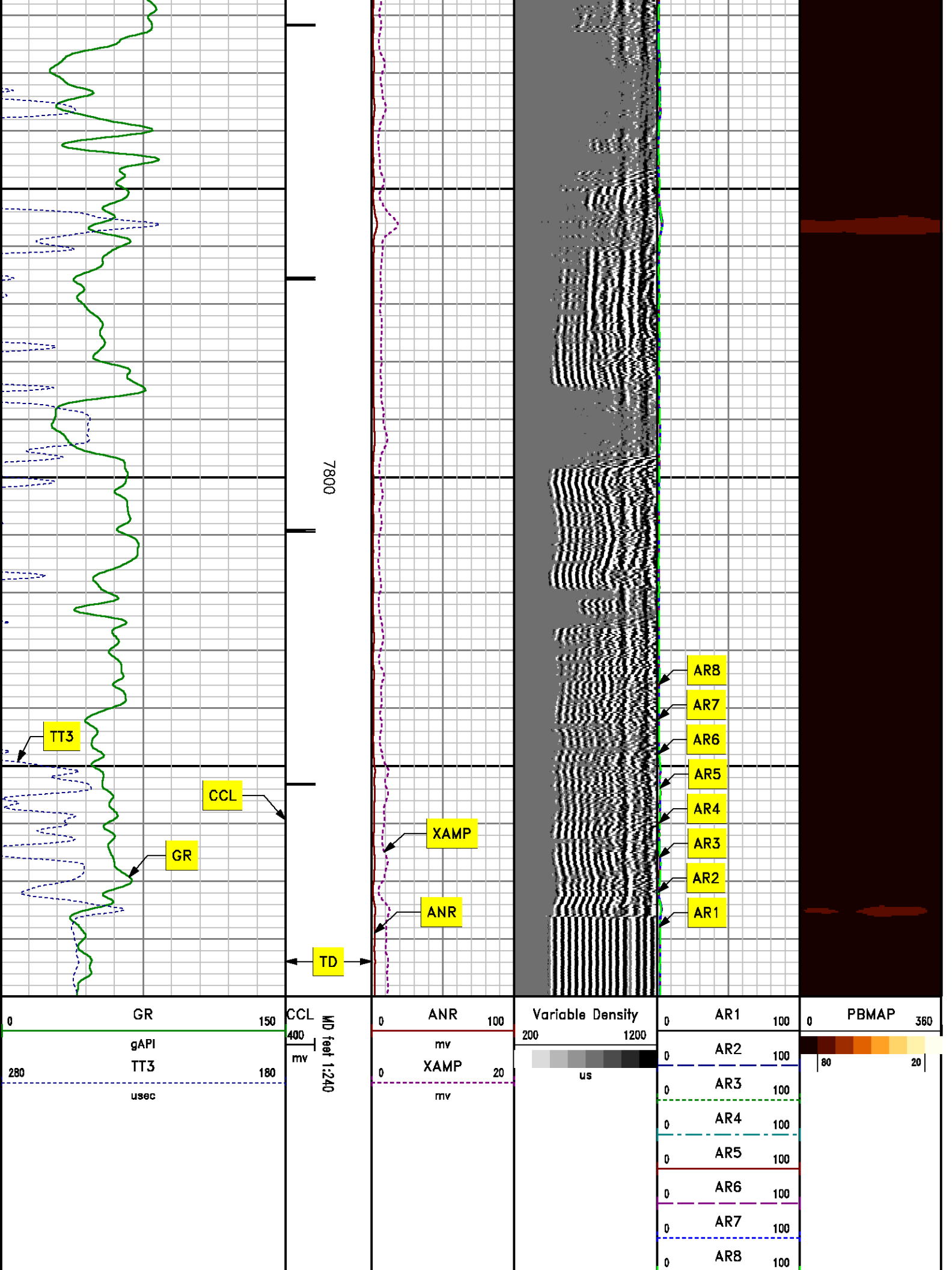












REPEAT PASS

0 PSI

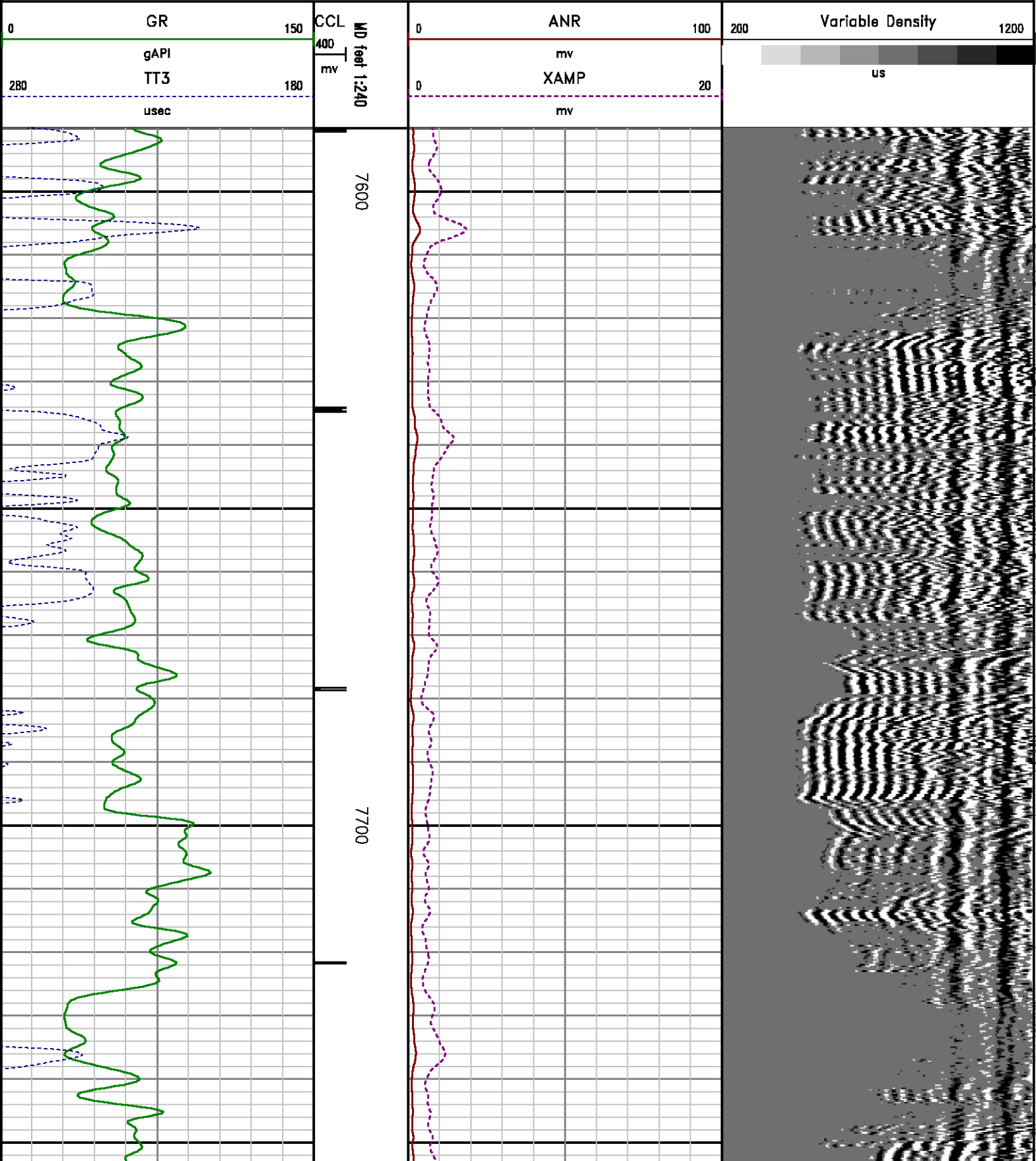
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.458	usec	7579.750	7899.000
RAL	Amp Gate Start Near	199.599	usec	7579.750	7899.000
RAL	Amp Gate Start Radial	199.599	usec	7579.750	7899.000
RAL	Amp Gate Width Far	25.000	usec	7579.750	7899.000
RAL	Amp Gate Width Near	25.000	usec	7579.750	7899.000
RAL	Amp Gate Width Radial	25.000	usec	7579.750	7899.000
RAL	casing od	4.500	inches	7579.750	7899.000
RAL	casing wt	11.600	lbm/ft	7579.750	7899.000
RAL	FB Start Far	291.900	usec	7579.750	7899.000
RAL	FB Start Near	175.391	usec	7579.750	7899.000
RAL	FB Start Radial	175.391	usec	7579.750	7899.000
RAL	FB Thresh Far	10.000	mv	7579.750	7899.000
RAL	FB Thresh Near	4.000	mv	7579.750	7899.000
RAL	FB Thresh Radial	4.000	mv	7579.750	7899.000
RAL	Fluid Travel Time	200.000	usec/ft	7579.750	7899.000

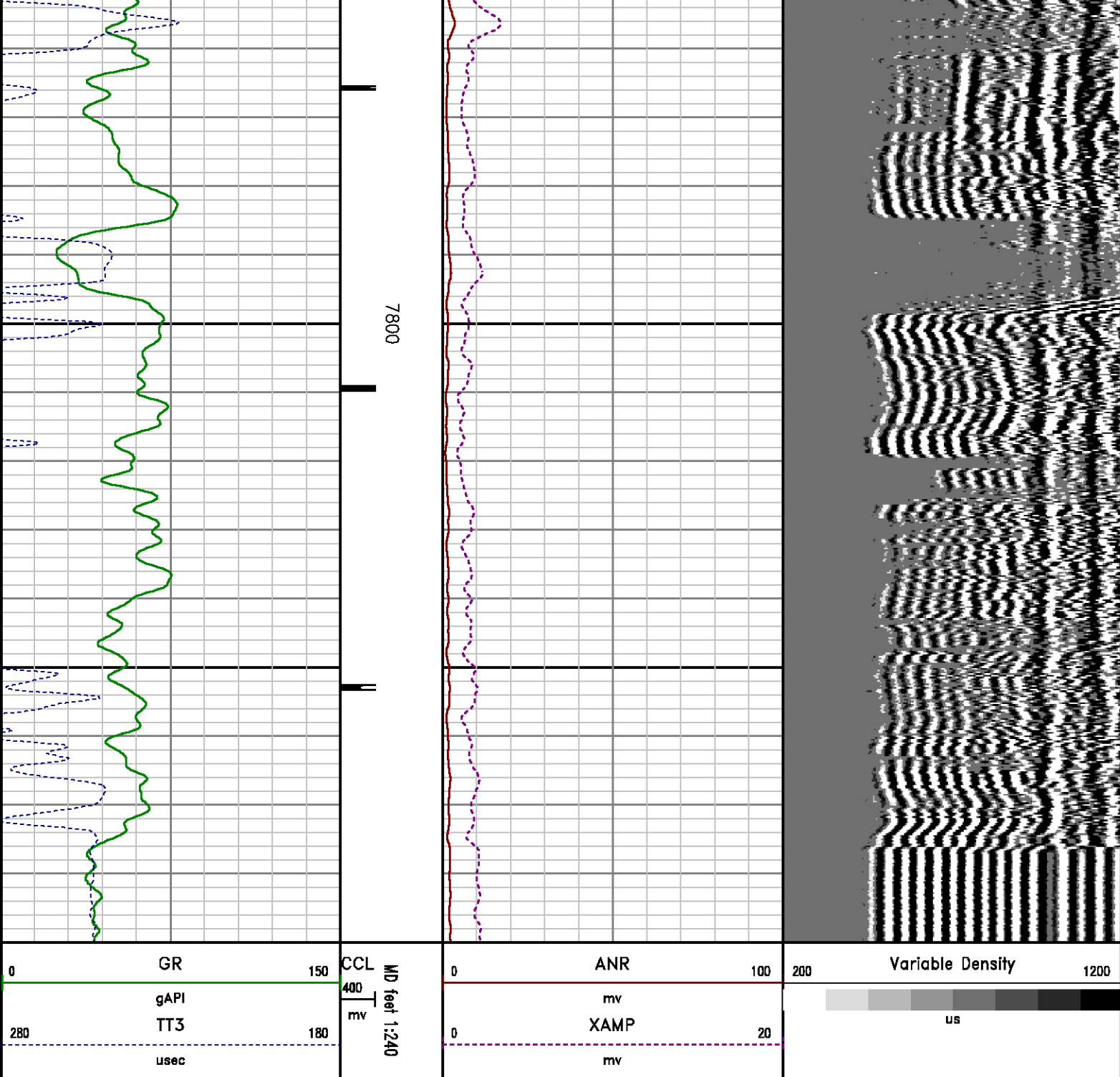
DEPTH OFFSETS

(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 : GOLDSBOROUGH PA 521-11
File Name : d:\welldata\521cbl\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 7590.00 - 7890.00 feet UP
Created : 7/2/2013 8:26:42 AM





CALIBRATION SUMMARY

GAMMA RAY

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jun 27 10:51:00 2013 TOOL SERIES: 2459XA ASSET: 209 SEQ: J7

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	132.31	583.42	0.410	54.26	239.26	185.00

Verification File: C:\case\calver\GR\209J7.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Jun 27 10:52:46 2013 TOOL SERIES: 2459XA ASSET: 209 SEQ: J7

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	140.71	580.31	0.410	57.71	237.98	180.28

RALSHP

Shop Calibration: C:\case\calver\RALSHP\028J02_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jul 02 07:52:20 2013 TOOL SERIES: 1426XA ASSET: 028 SEQ: J02

Tool Delay [usec]	Tank OD in	Tank Wt lbm/ft	Tank ID in
-58.00	5.50	15.50	4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	220	216	30	166	25	-0.254	100.00	0.20
3 Ft. Receiver	220	216	30	166	25	2.127	100.00	0.20
5 Ft. Receiver	354	351	30	282	25	2.833	150.00	0.17
Radial #1	220	216	30	166	25	5.698	100.00	0.20
Radial #2	220	216	30	166	25	3.747	100.00	0.20
Radial #3	220	216	30	166	25	2.284	100.00	0.21
Radial #4	220	216	30	166	25	1.078	100.00	0.21
Radial #5	219	216	30	166	25	-0.204	100.00	0.20
Radial #6	218	216	30	166	25	2.123	100.00	0.20
Radial #7	218	216	30	166	25	-0.156	100.00	0.20
Radial #8	221	216	30	166	25	4.632	100.00	0.20

RALFLD

Well-site Calibration: C:\case\calver\RALFLD\028J02 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jul 02 07:53:38 2013 TOOL SERIES: 1426XA ASSET: 028 SEQ: J02

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in
-58.00	4.50	11.60	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	0.034	0.000	1.00	100.000
3 Ft. Receiver	200	30	-0.230			
5 Ft. Receiver	317	30	-0.337			
Radial #1	200	30	-0.308			
Radial #2	200	30	-0.317			
Radial #3	200	30	-0.315			
Radial #4	200	30	-0.200			
Radial #5	200	30	-0.115			
Radial #6	200	30	-0.341			
Radial #7	200	30	-0.135			
Radial #8	200	30	-0.264			

TOOL DIAGRAM

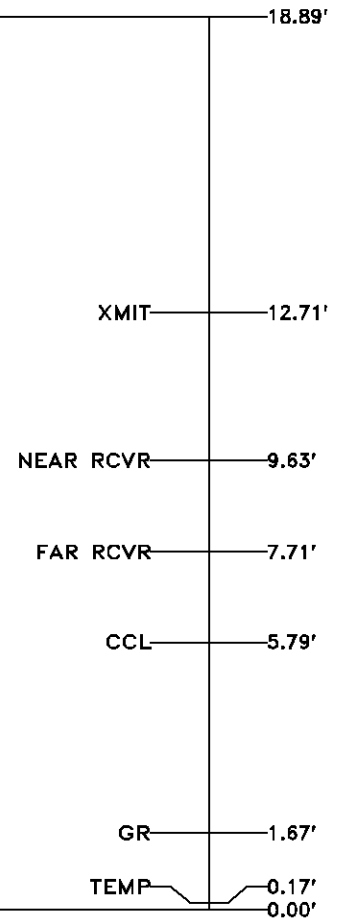
OTA SHORT CABLE HEAD

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



Company	WPX ENERGY		
Well	GOLDSBOROUGH PA 521-11		
Field	PARACHUTE		
County	GARFIELD	State	COLORADO

File No:	CH074113
API No:	05045218190000

Location			
SHL: 2414' FNL & 2089' FWL SEC:11			
BHL: 1143' FNL & 2089' FWL SEC:11			
SEC	11	TWP	7S
		RGE	95W

Elevations	
KB	6296 ft
DF	
GL	6274 ft

11 7S 95W
PA 22-11
CYCLONE 17