



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: GH073169	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 22-11 PARACHUTE GARFIELD	State COLORADO
API No: 06046218180000	Location SHL: 2403' FNL, 2075' FWL 11 7S 9SW CYCLONE 17 BHL: 1470' FNL, 2059' FWL SEC 11 TWP 7S RGE 9SW		Other Services RPM
PA 22-11 PAD 11 7S 9SW CYCLONE 17	Permanent Datum Log Measured From Drill Measured From		Elevations KB 6296 ft DF GL 6274 ft
OL KB KELLY BUSHING		Elevation 22 ft Above P. D.	

Date	13/JUN/13	
Run	ONE	
Service Order	878100	
Depth Driller	7808 ft	
Depth Logger	7780 ft	
Bottom Logged Interval	7770 ft	
Top Logged Interval	26 ft	
Time Started	1800	
Time Finished	2100	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	70 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	220 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	4271	GRANDUCT
Recorded By	RENEAU	
Witnessed By	DUSTIN WELSH	

- FOLD HERE

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

Borehole Record		
Bit Size	From	To
13.5 in	0 ft	892 ft
8.75 in	892 ft	7808 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	32 lbm/ft		0 ft	892 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	7808 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 17 feet.
BHT = 220°F
SJ = 4558'-4581'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	1355XA	10580209	CENT

PRIMARY PRESENTATION

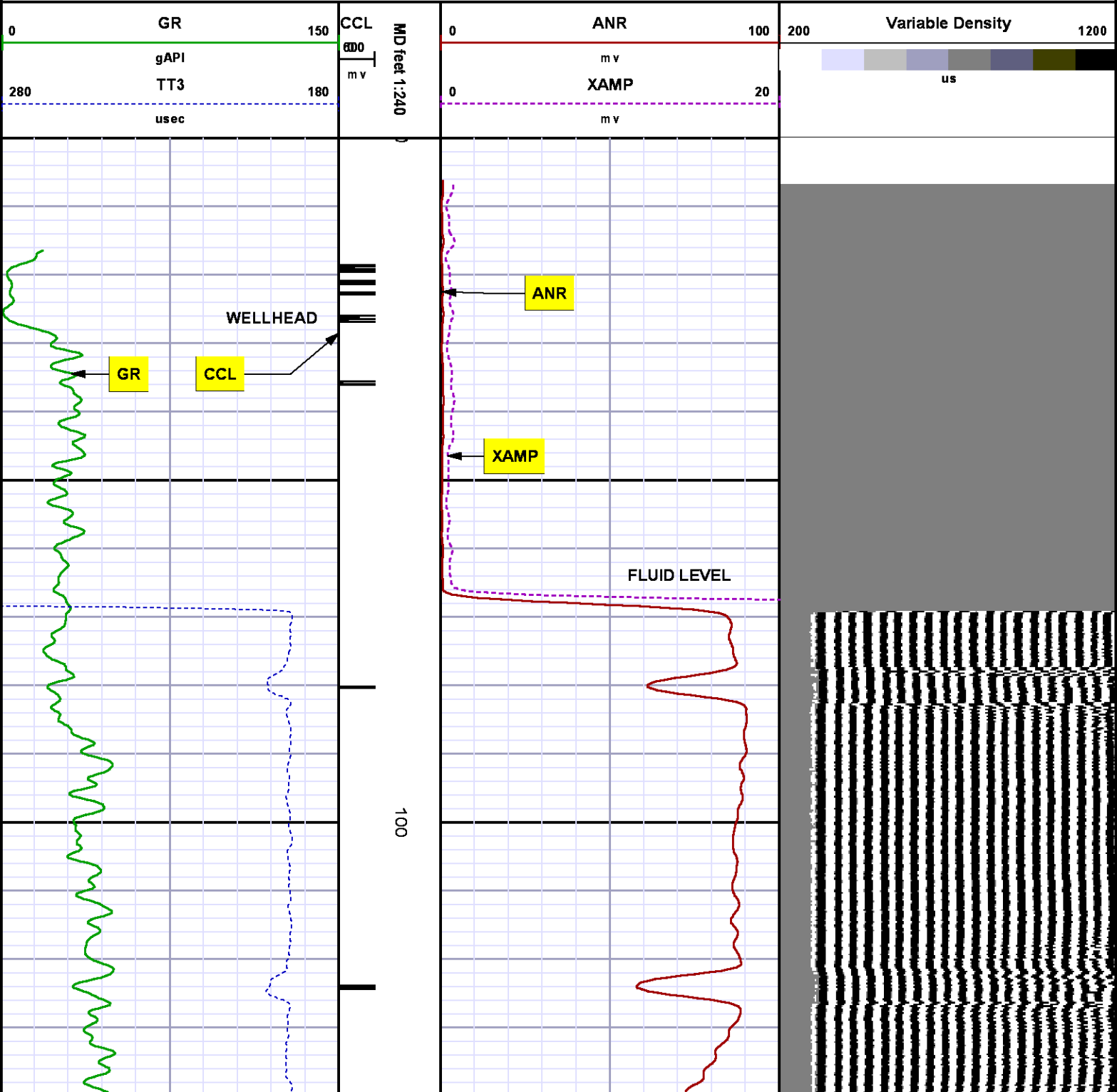
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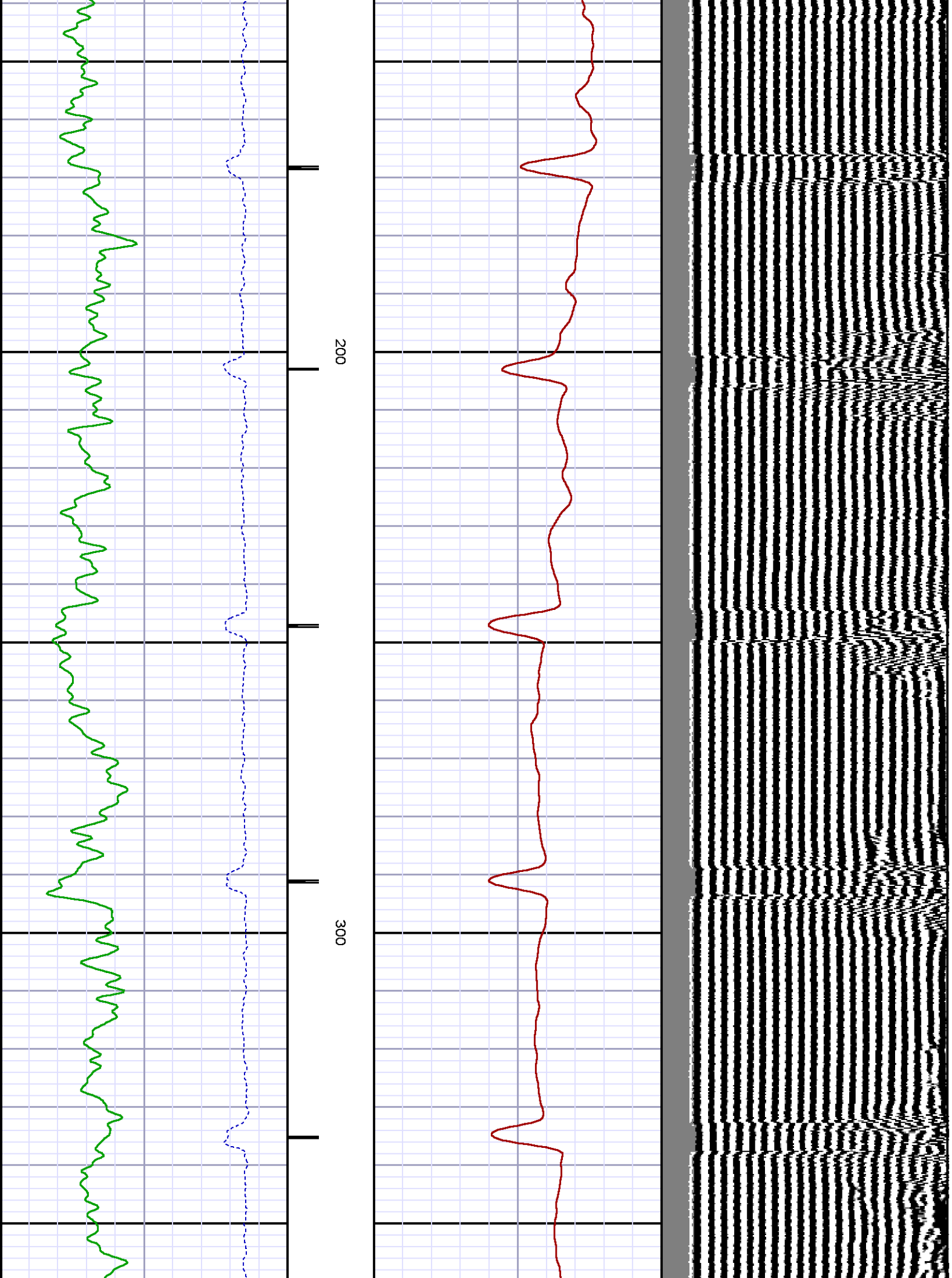
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	16.750	7802.000
RAL	Amp Gate Start Near	195.000	usec	16.750	7802.000
RAL	Amp Gate Start Radial	195.000	usec	16.750	7802.000
RAL	Amp Gate Width Far	25.000	usec	16.750	7802.000
RAL	Amp Gate Width Near	25.000	usec	16.750	7802.000
RAL	Amp Gate Width Radial	25.000	usec	16.750	7802.000
RAL	casing od	4.500	inches	16.750	7802.000
RAL	casing wt	11.600	lbm/ft	16.750	7802.000
RAL	FB Start Far	291.900	usec	16.750	7802.000
RAL	FB Start Near	180.000	usec	16.750	7802.000
RAL	FB Start Radial	180.000	usec	16.750	7802.000
RAL	FB Thresh Far	10.000	mv	16.750	7802.000
RAL	FB Thresh Near	4.000	mv	16.750	7802.000
RAL	FB Thresh Radial	4.000	mv	16.750	7802.000
RAL	Fluid Travel Time	200.000	usec/ft	16.750	7801.750

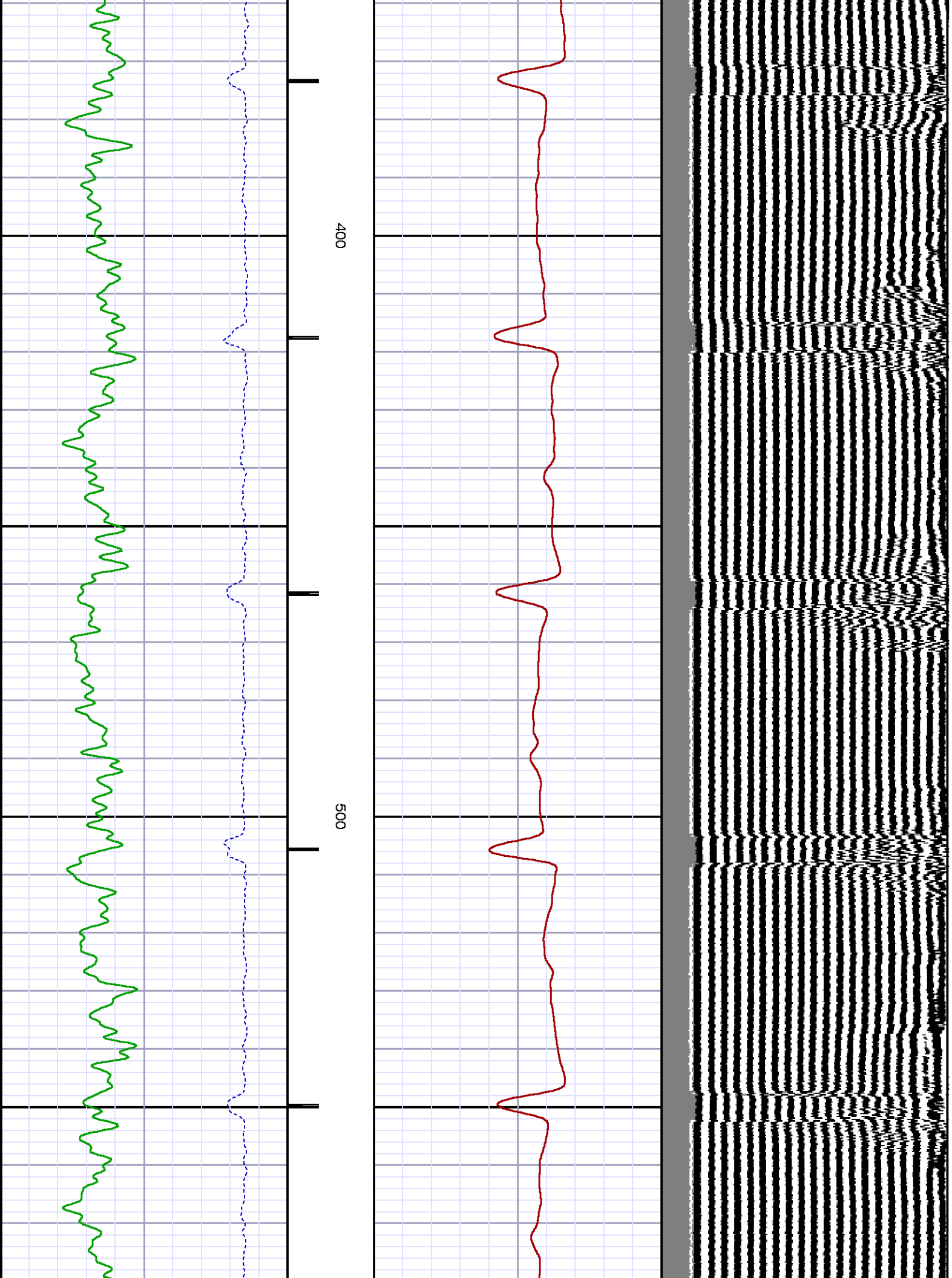
DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP

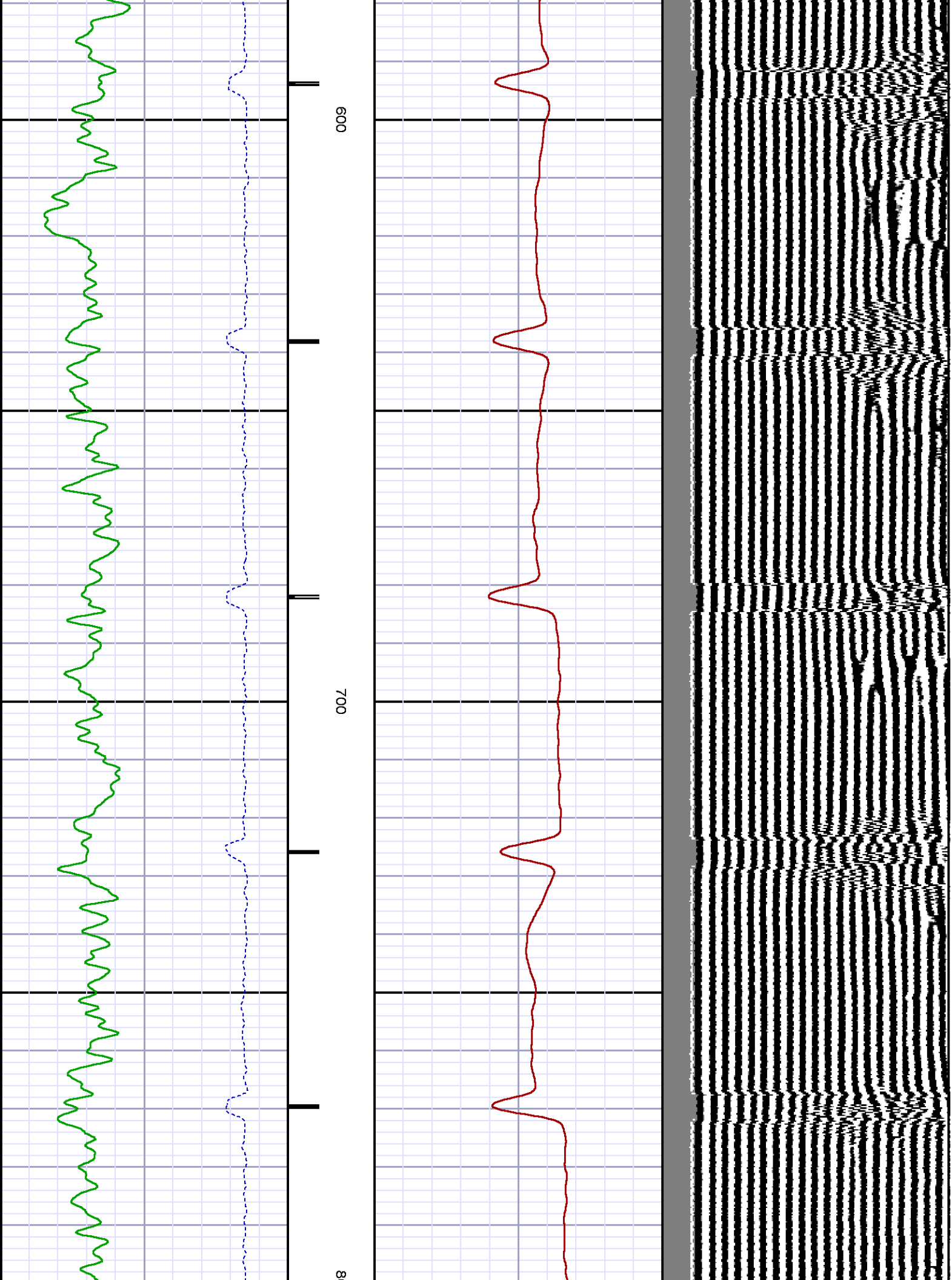
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1355XA	-5.620	CCL		
1355XA	-1.500	GR		
1355XA	0.000	TEMP		

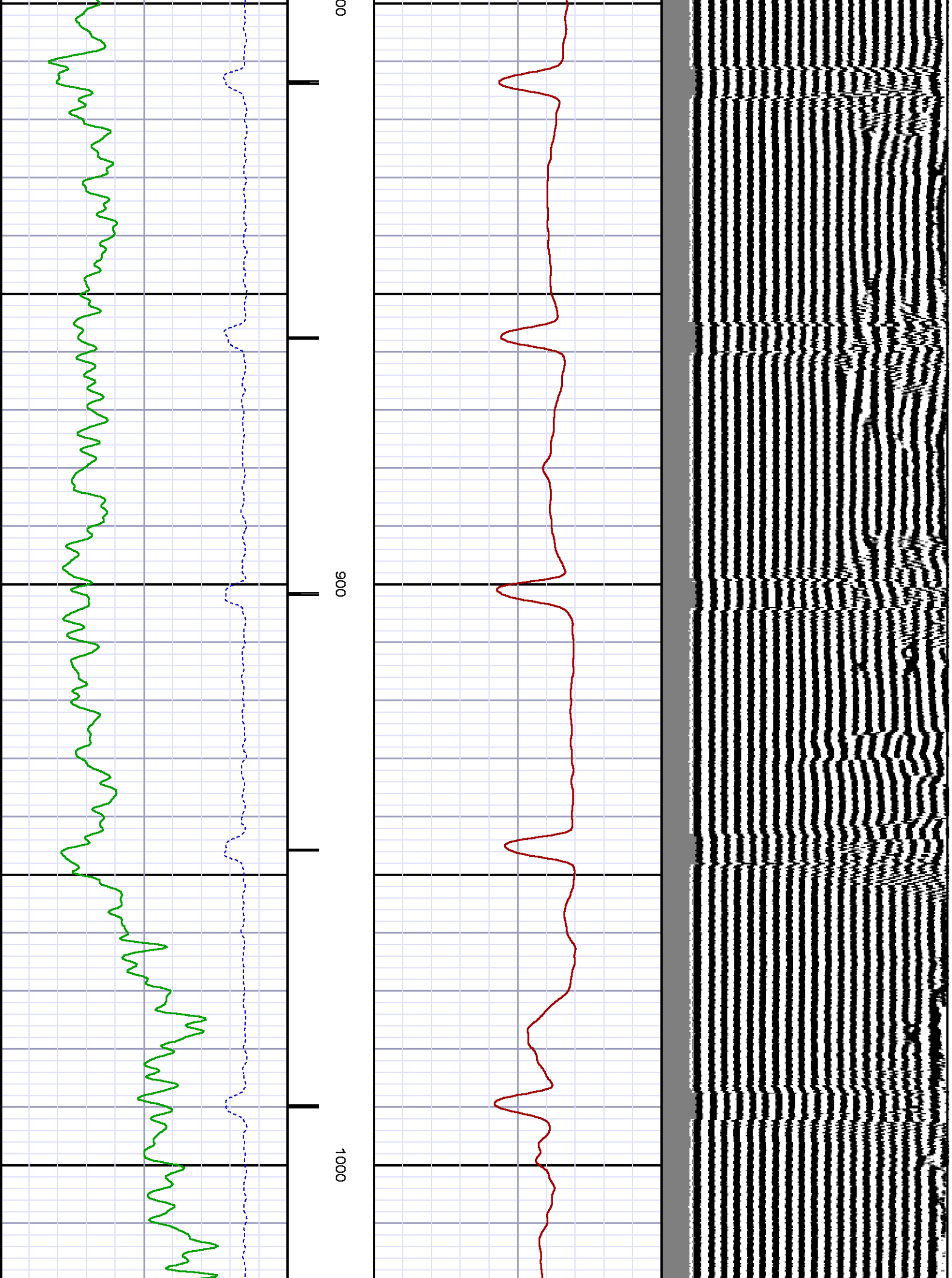
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Plotted by : PlotMgr, v5.4.504				
Company : WPX ENERGY				
Well : GOLDSBOROUGH PA 22-11				
File Name : d:\well\data\wpx energy\pa 22-11\22ralmain.xtf				
Mode : PlotMgr 5.4.504				
Interval : 0.00 - 7786.00 feet UP				
Created : 6/13/2013 6:55:24 PM				

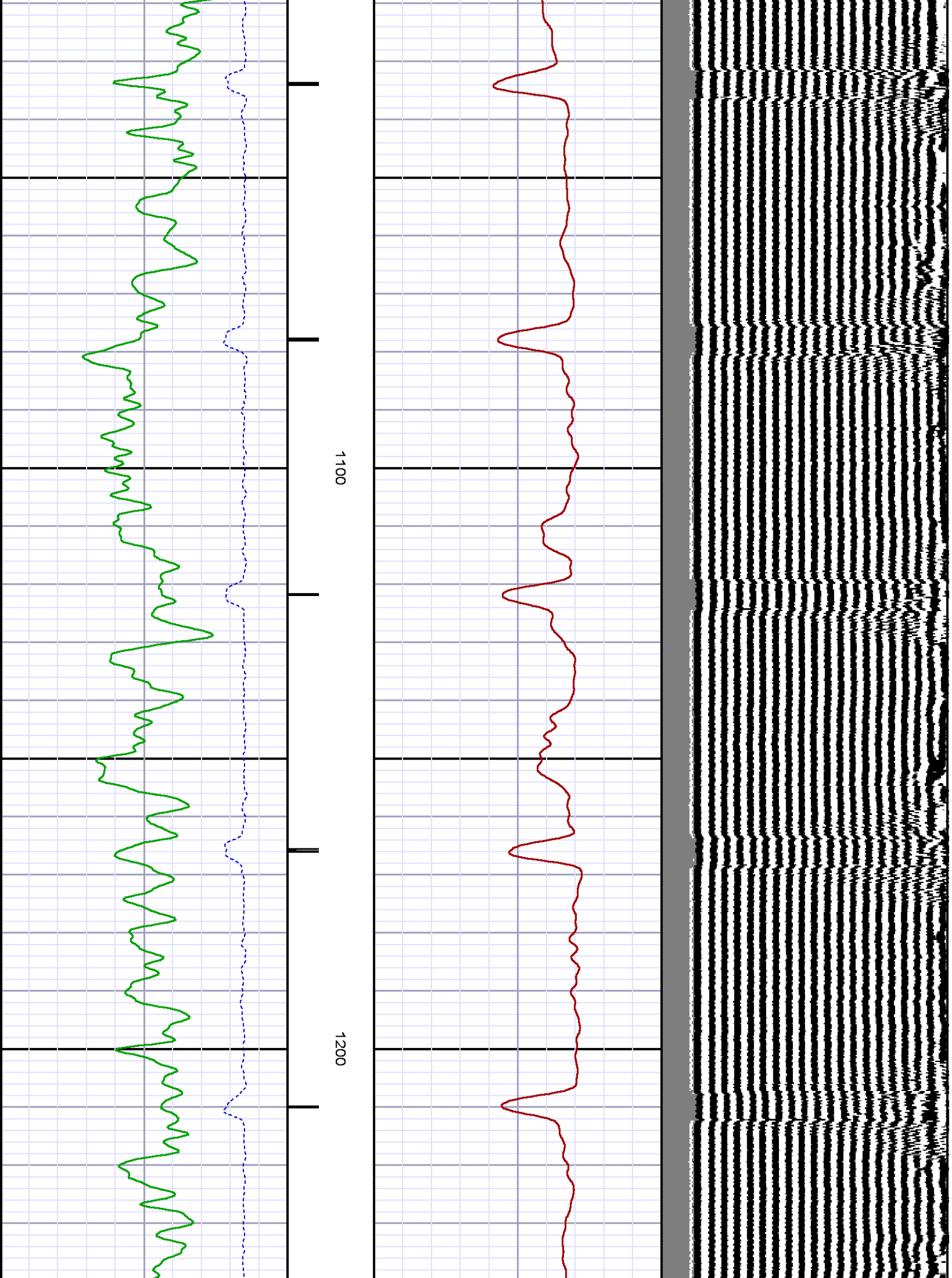


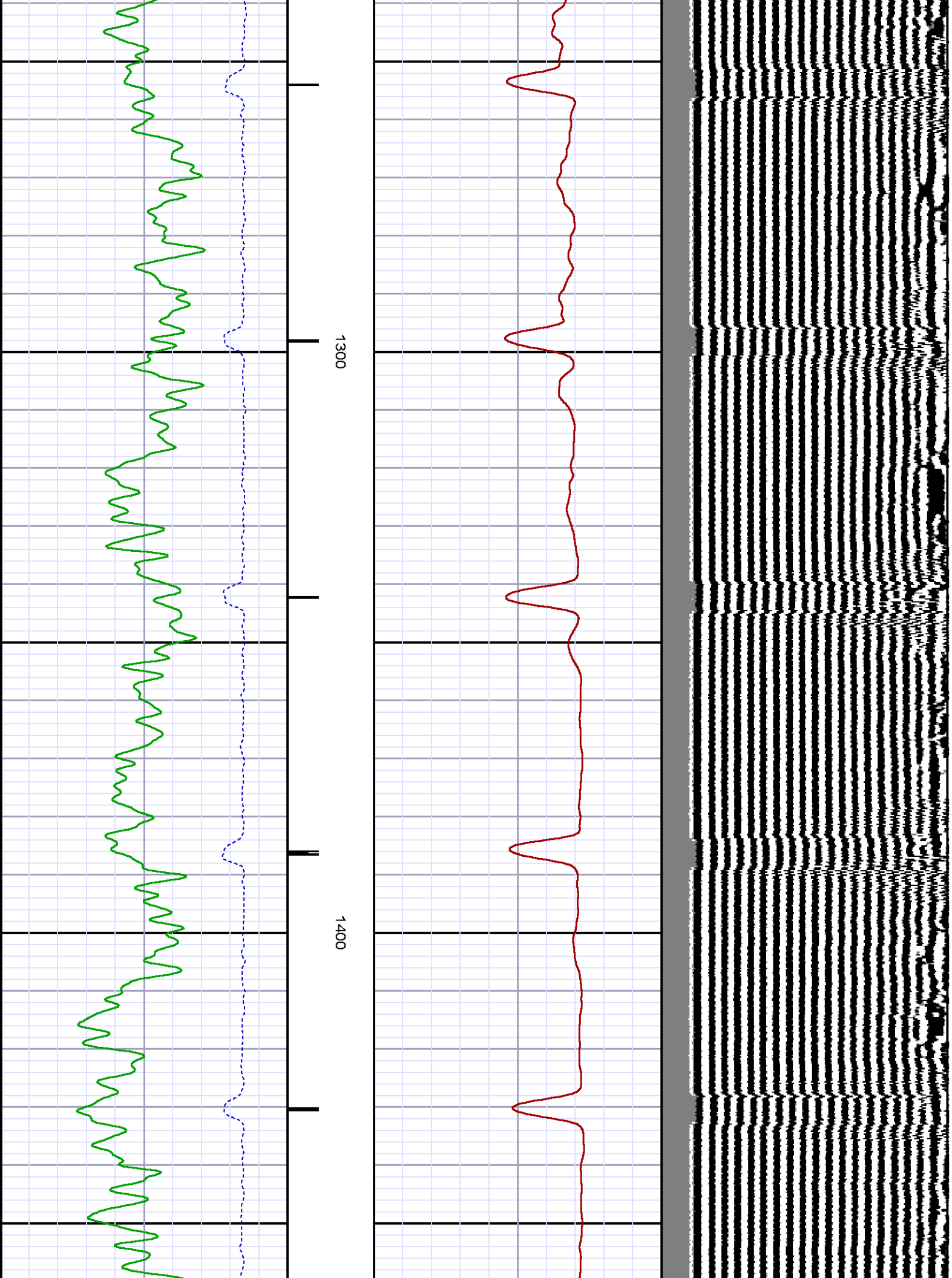


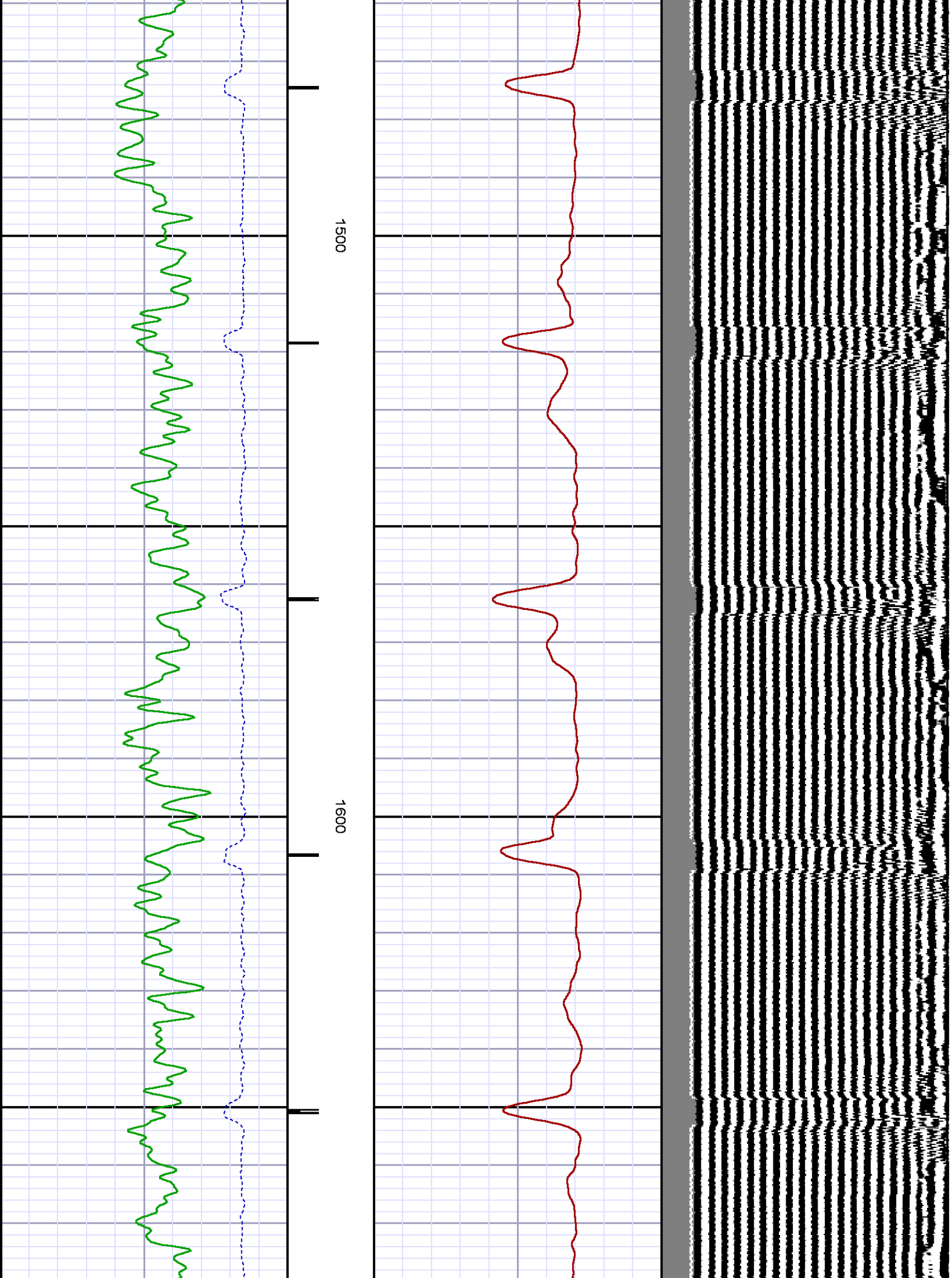


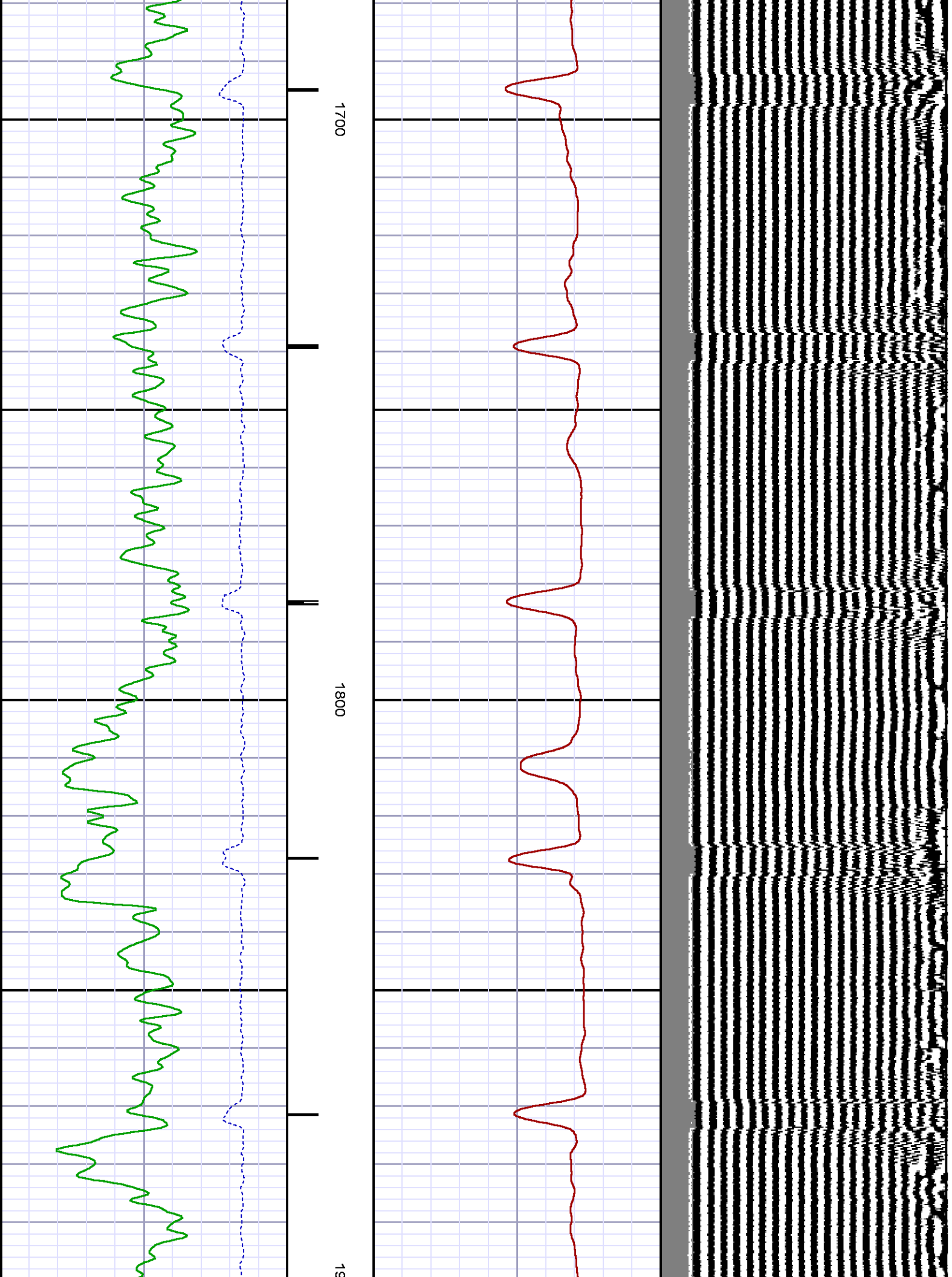


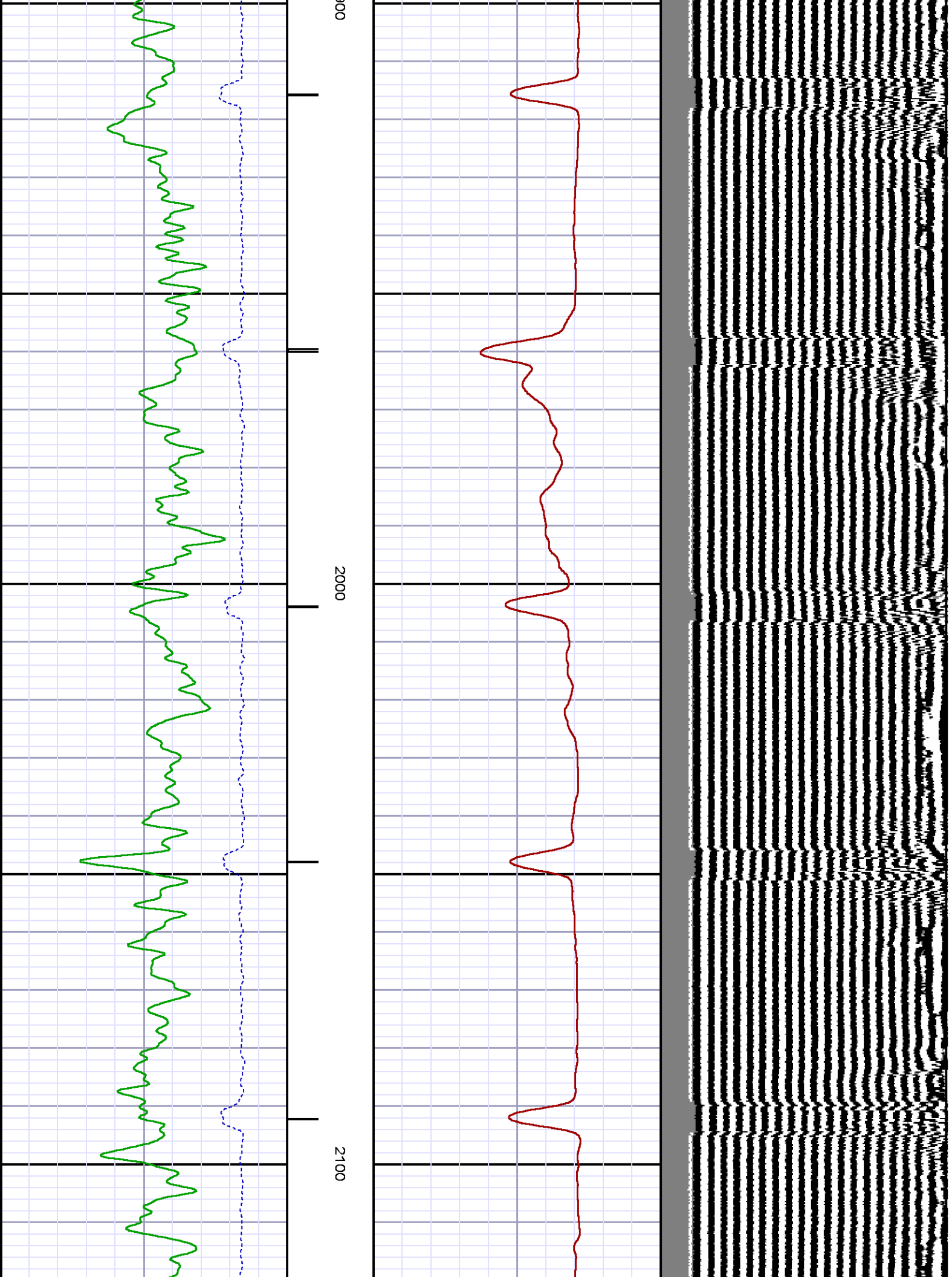


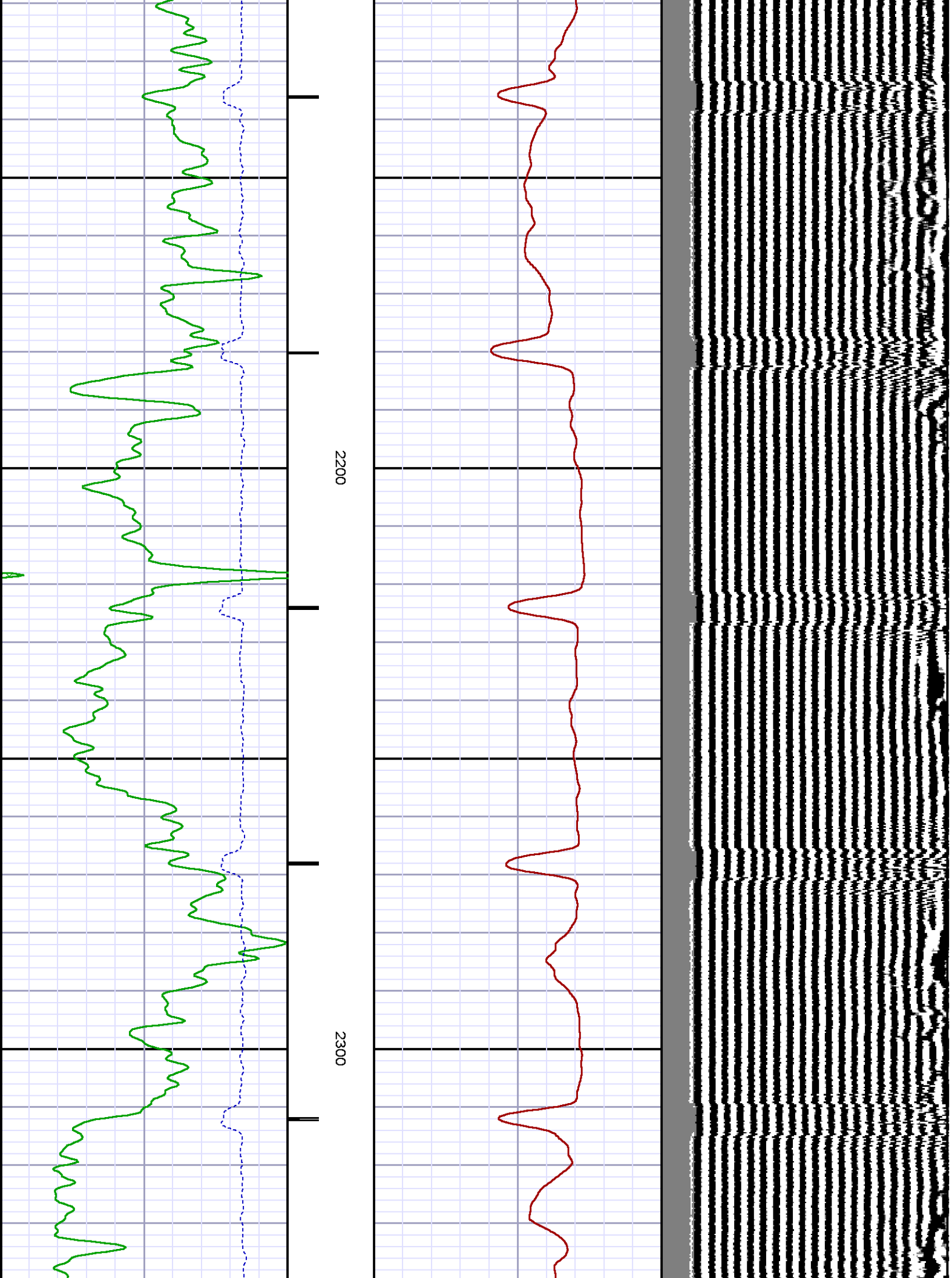


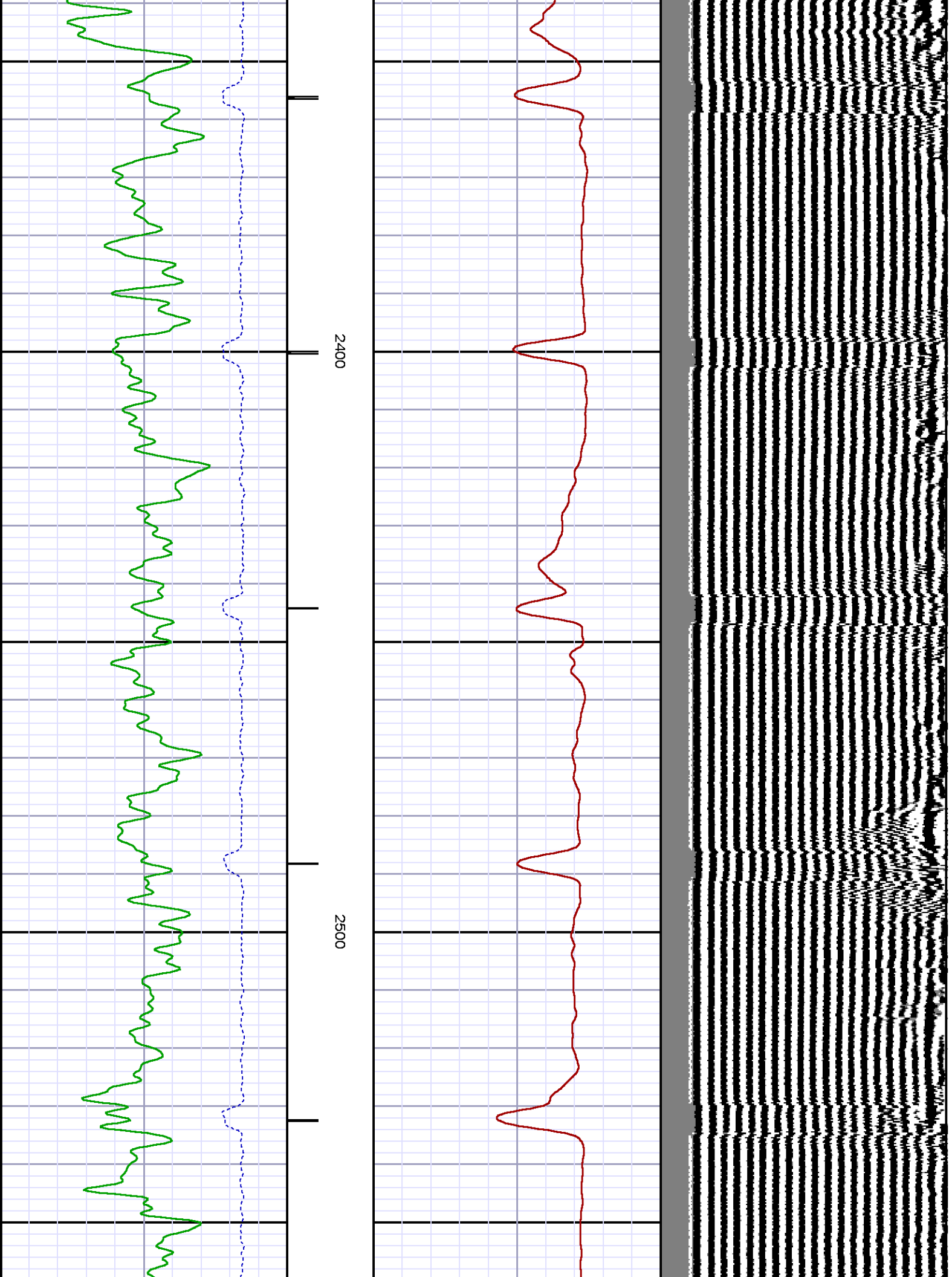


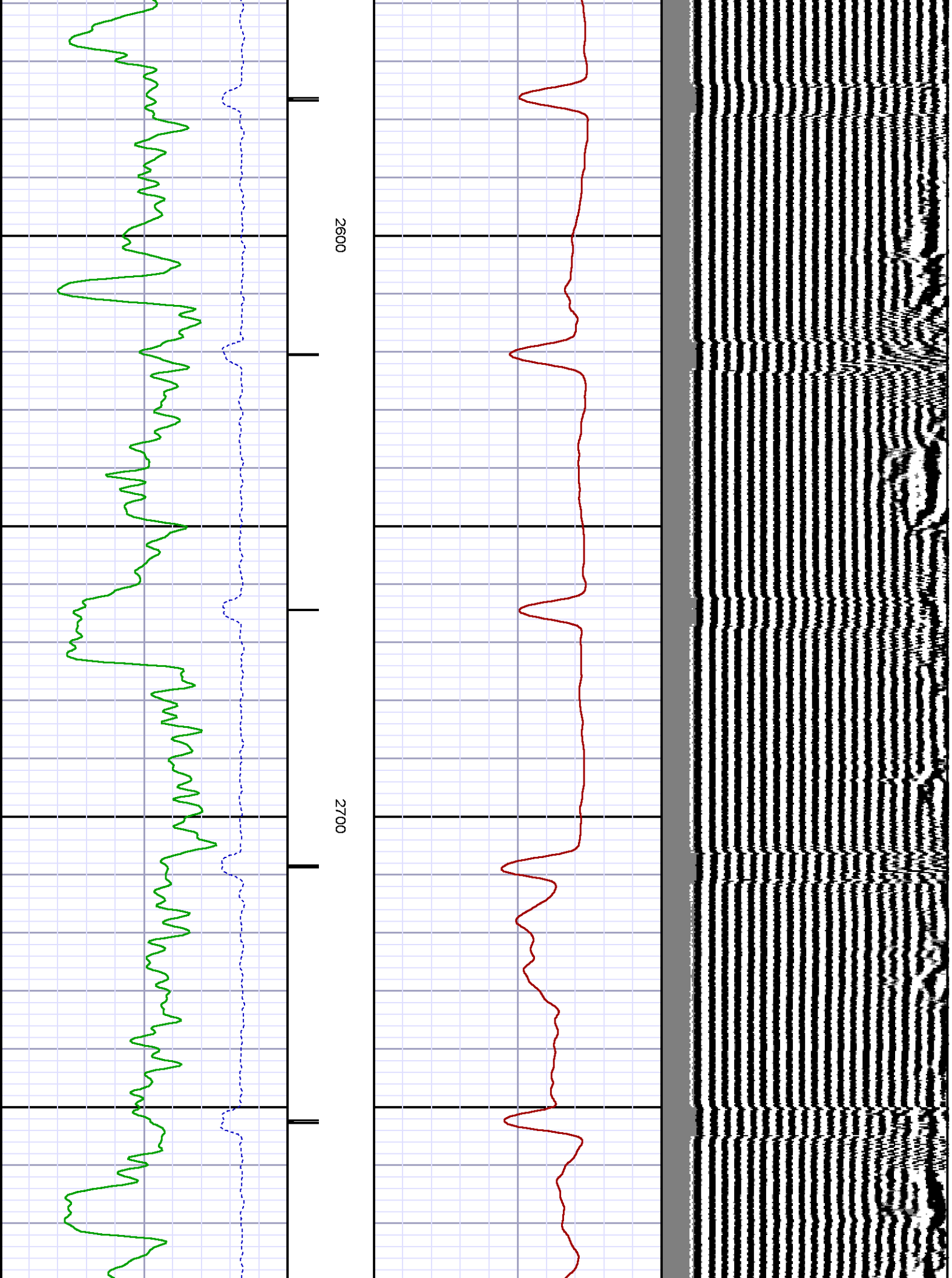


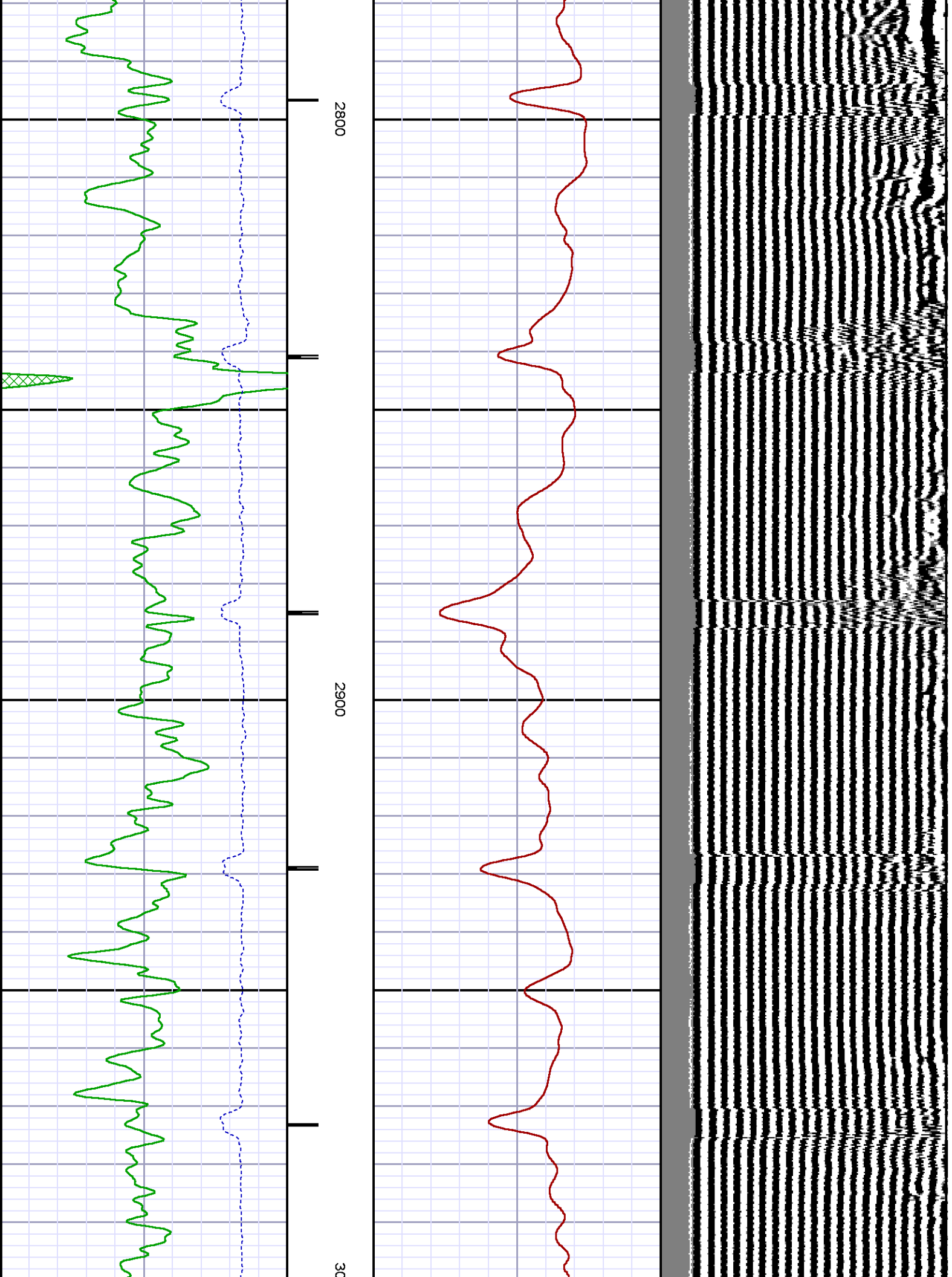


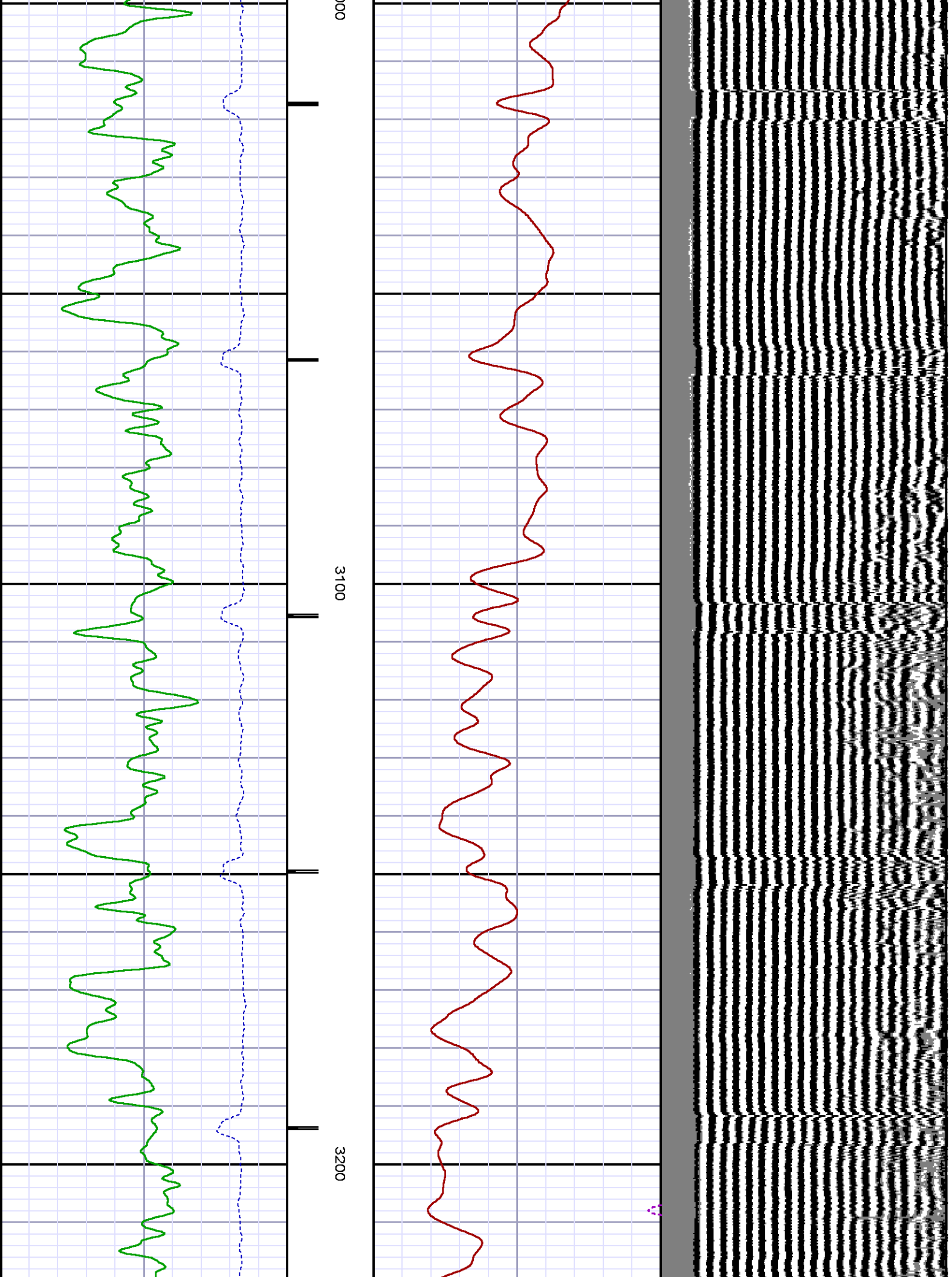


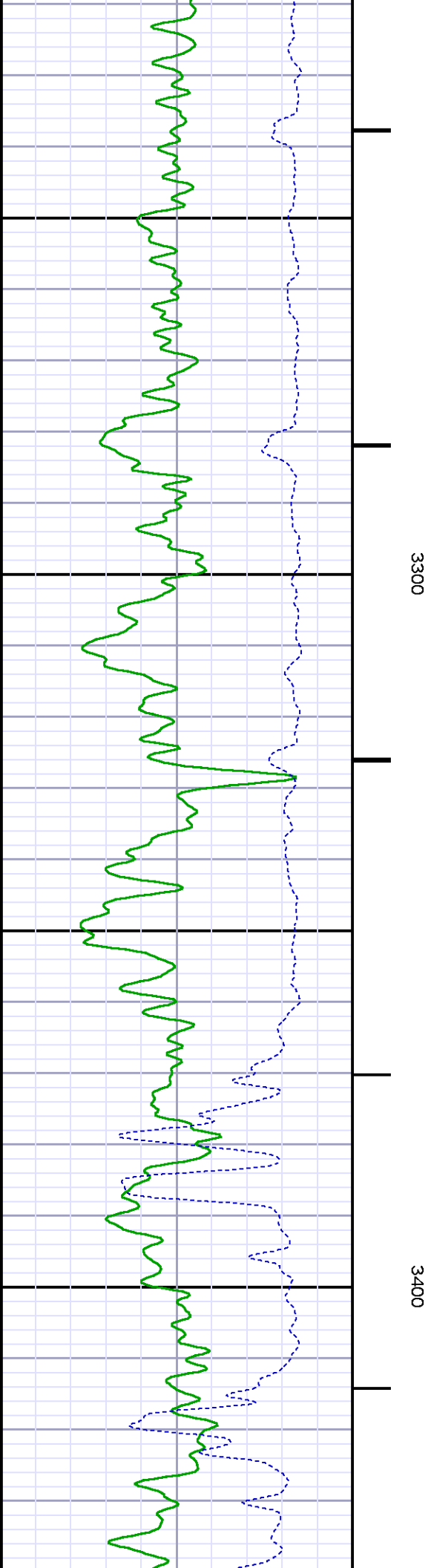
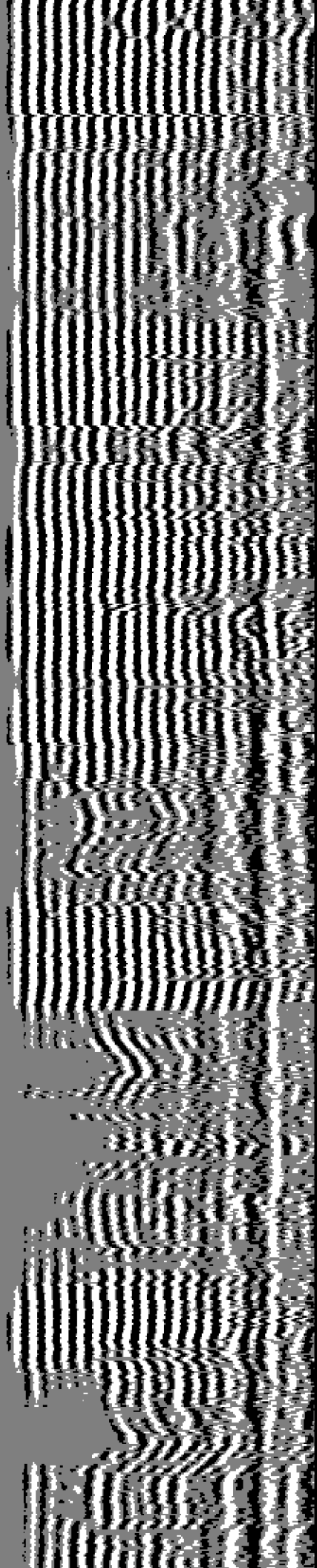


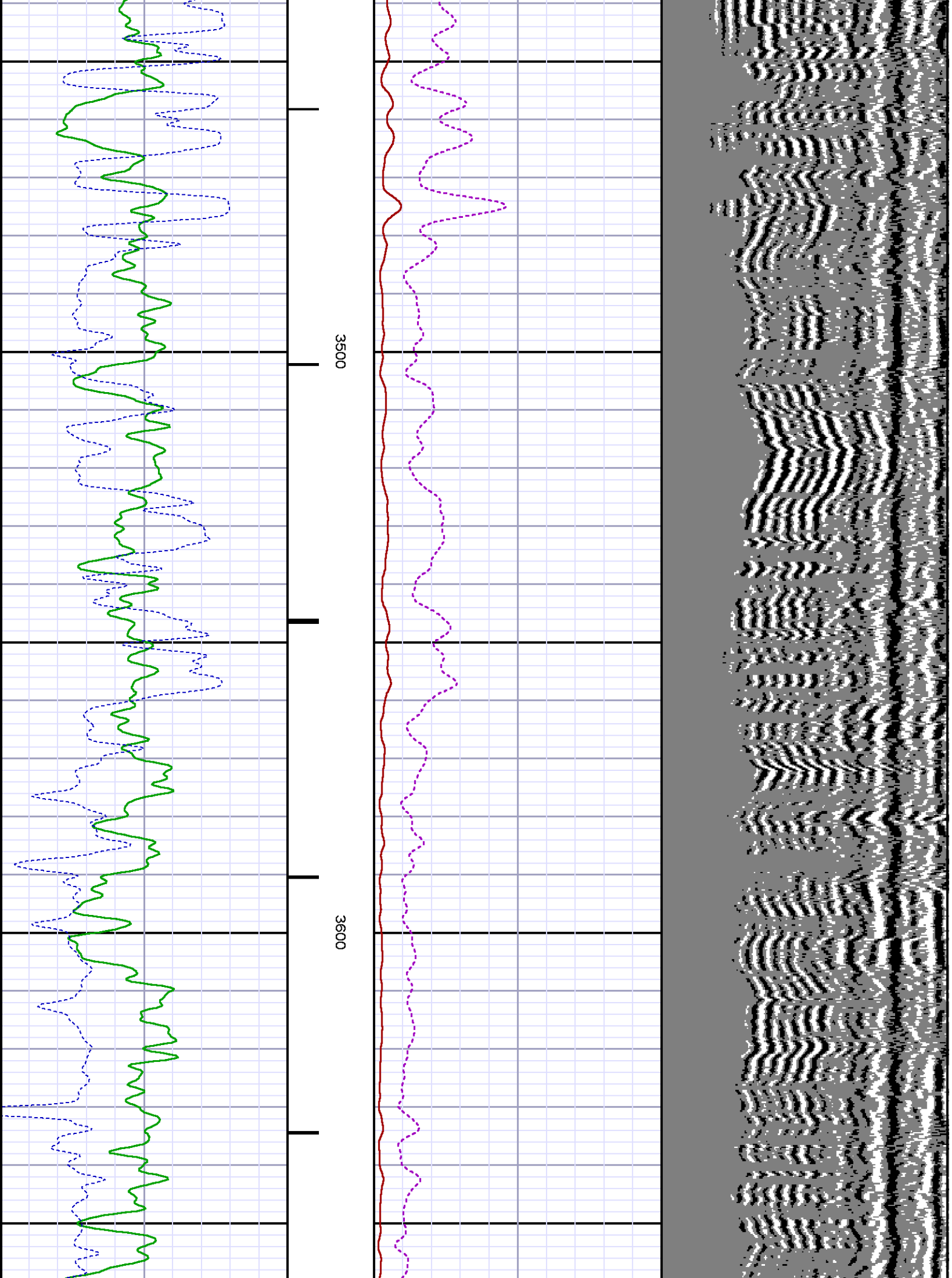


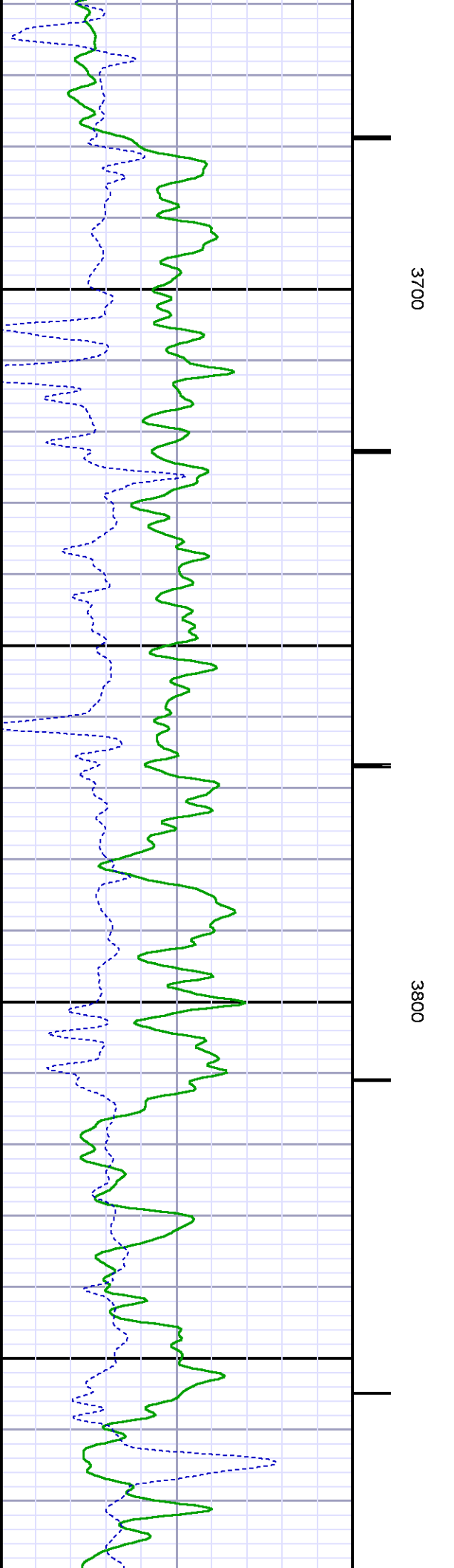
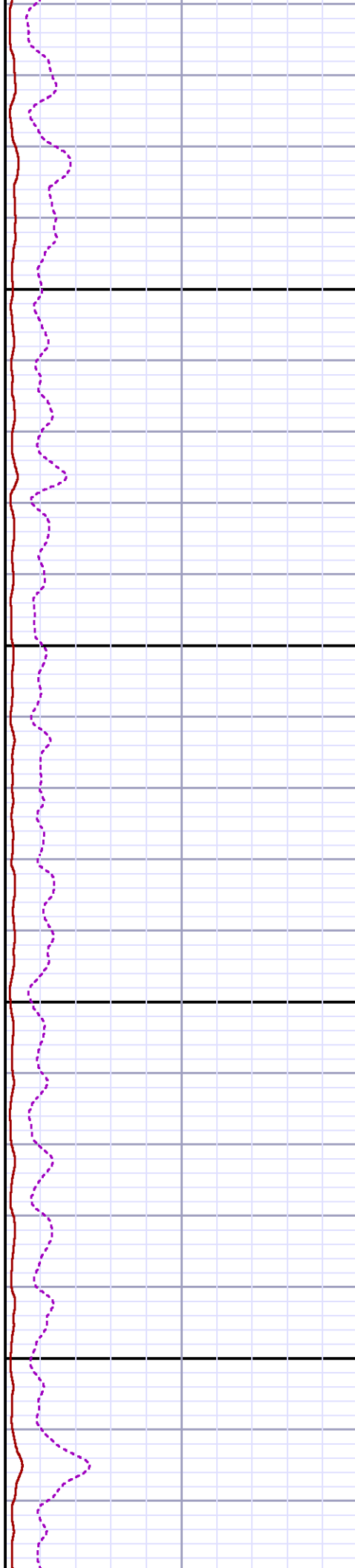
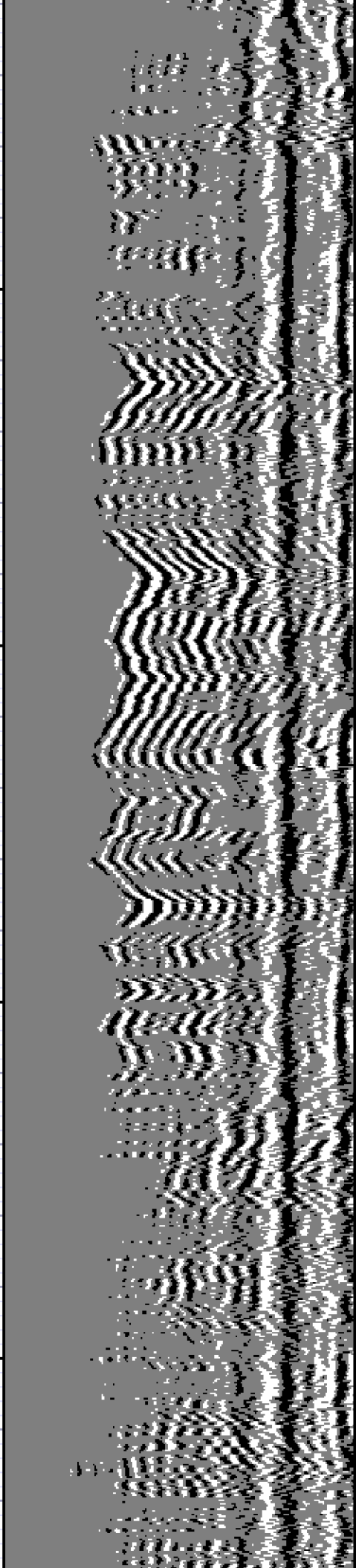


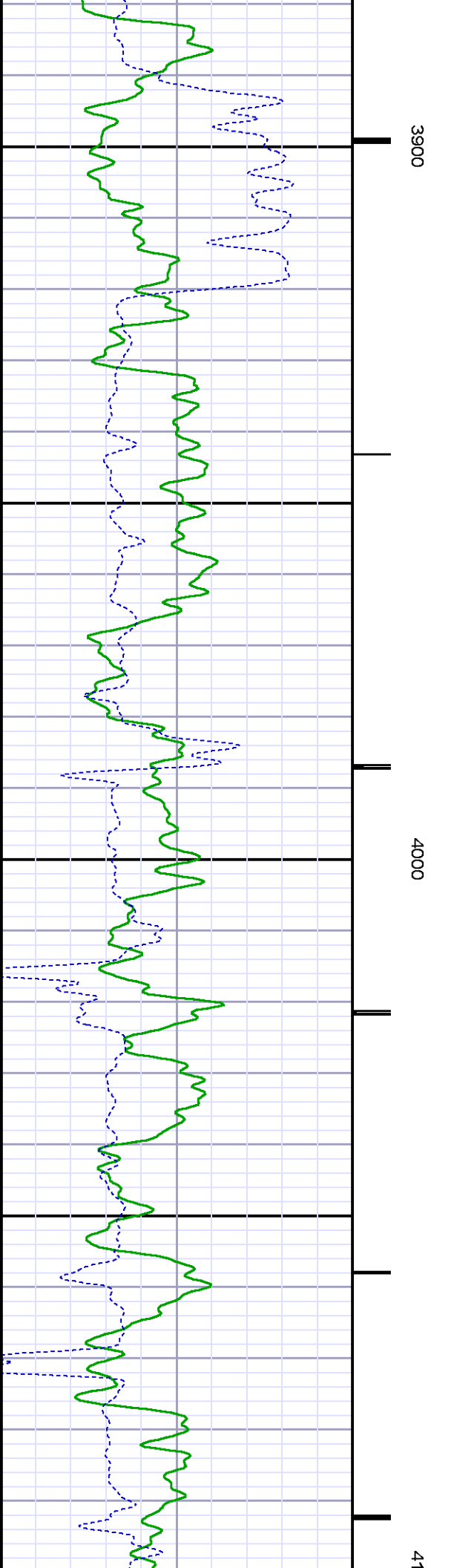
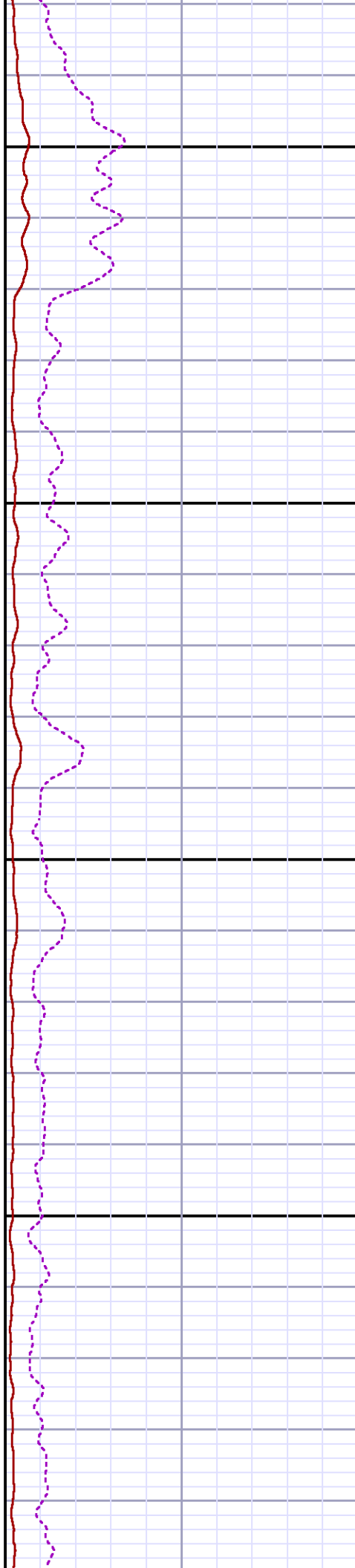
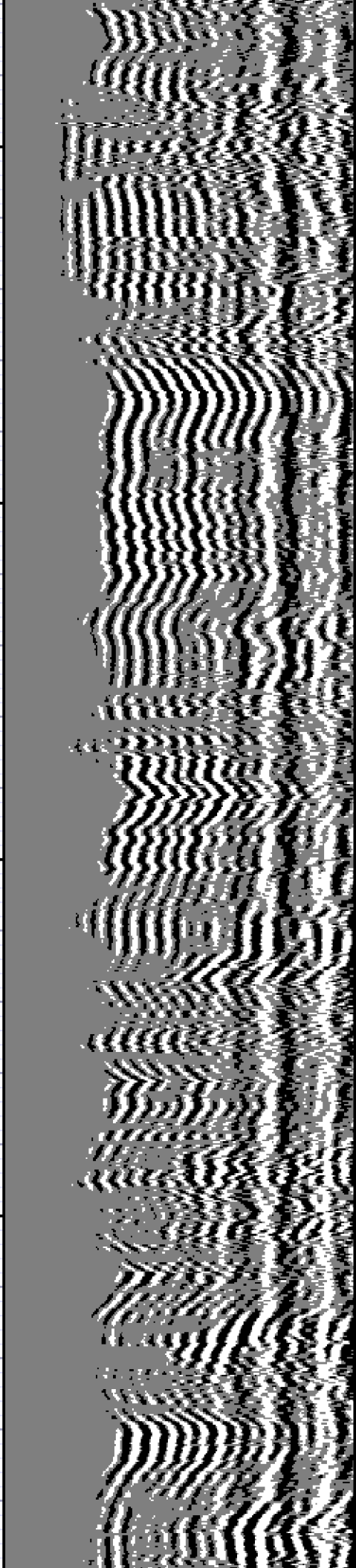


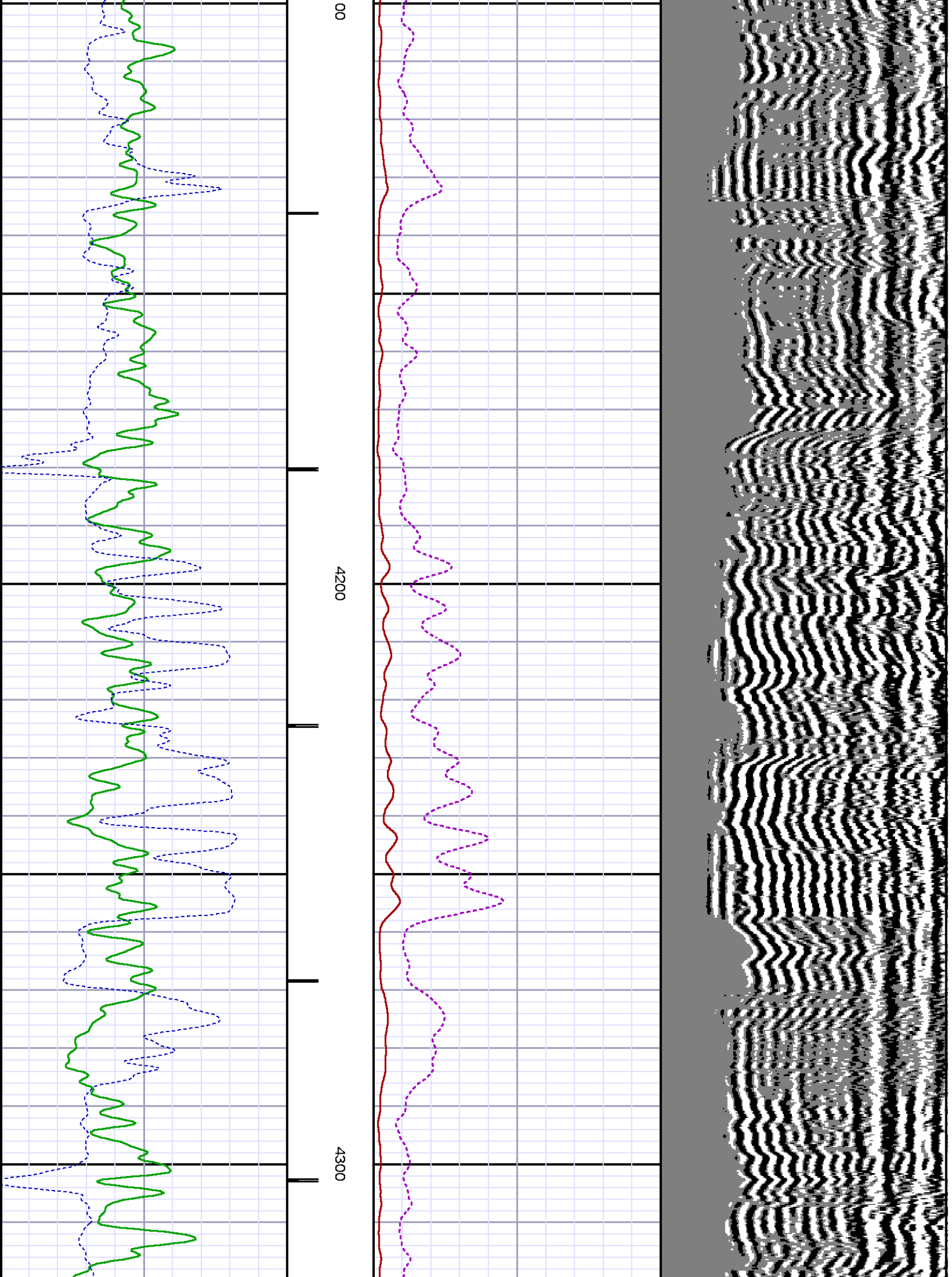


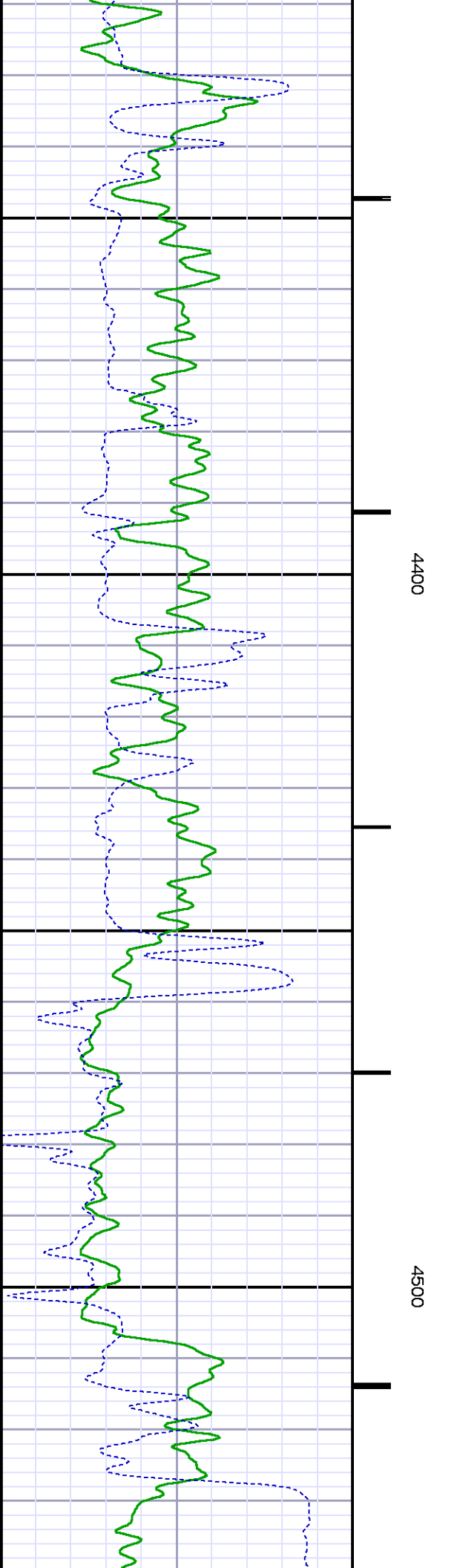
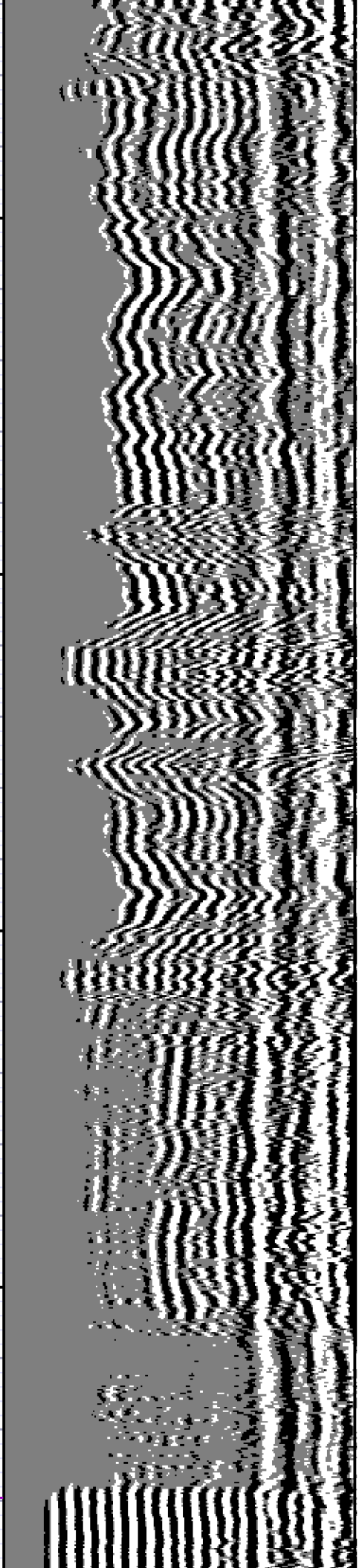


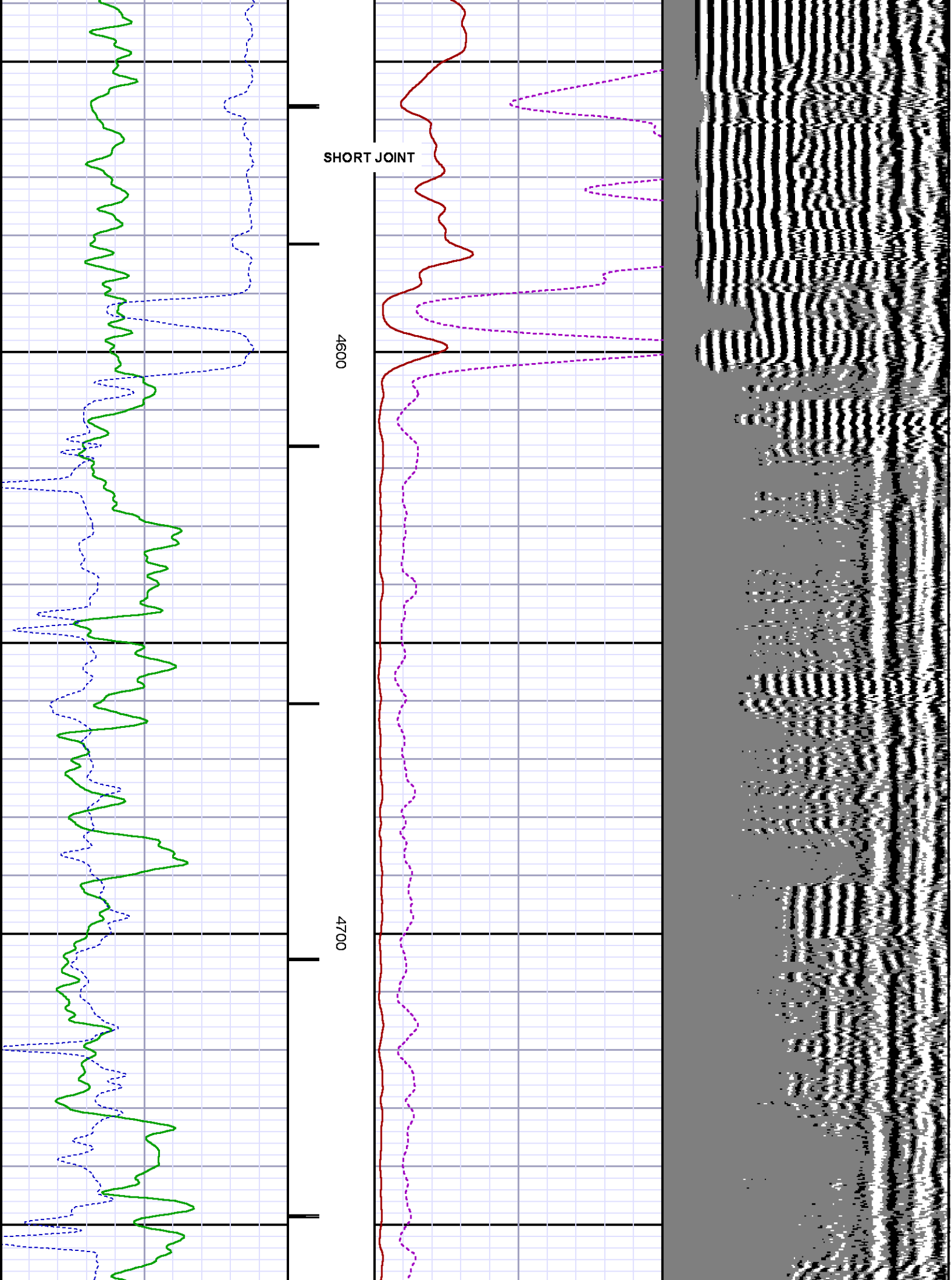


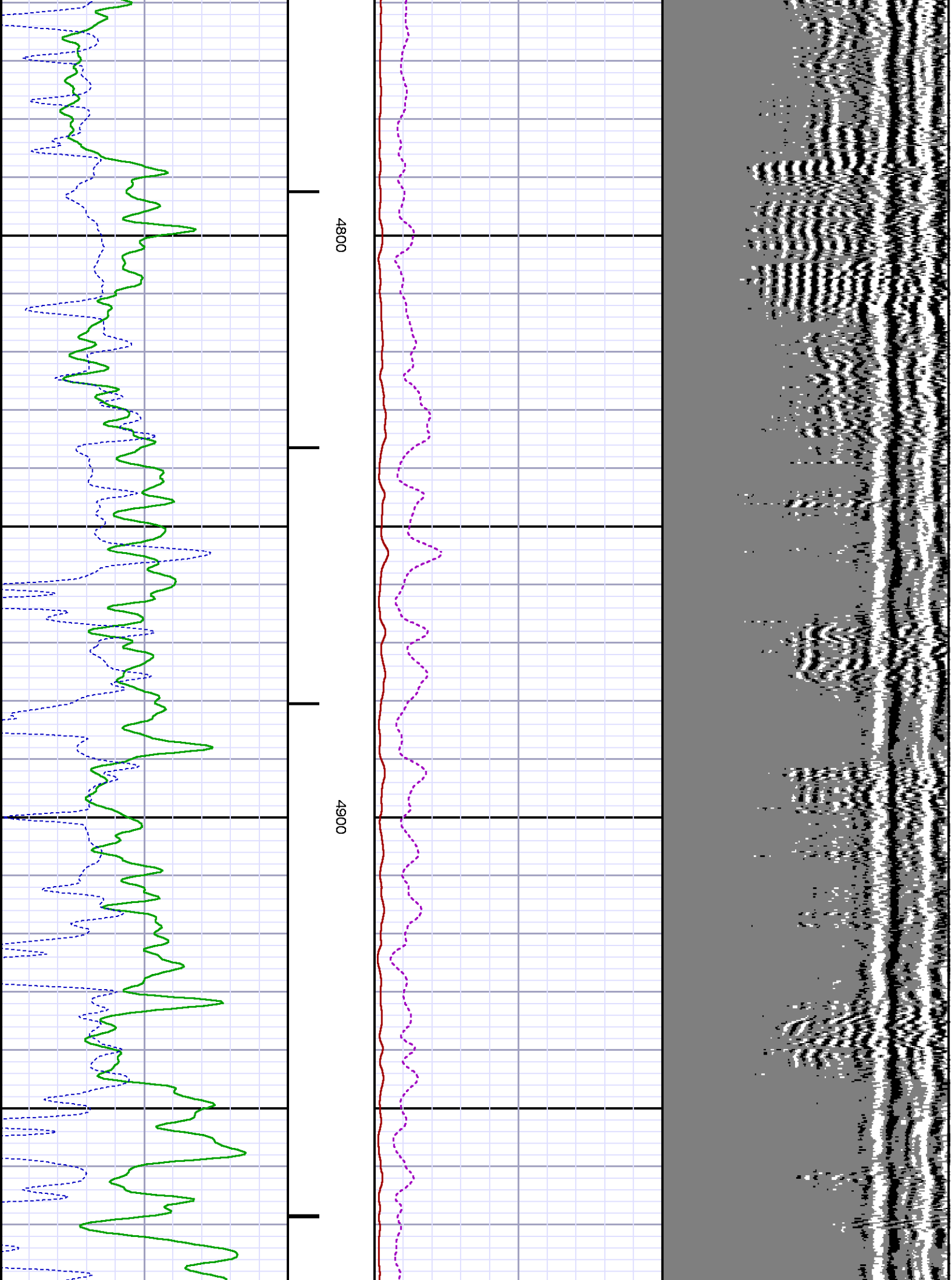


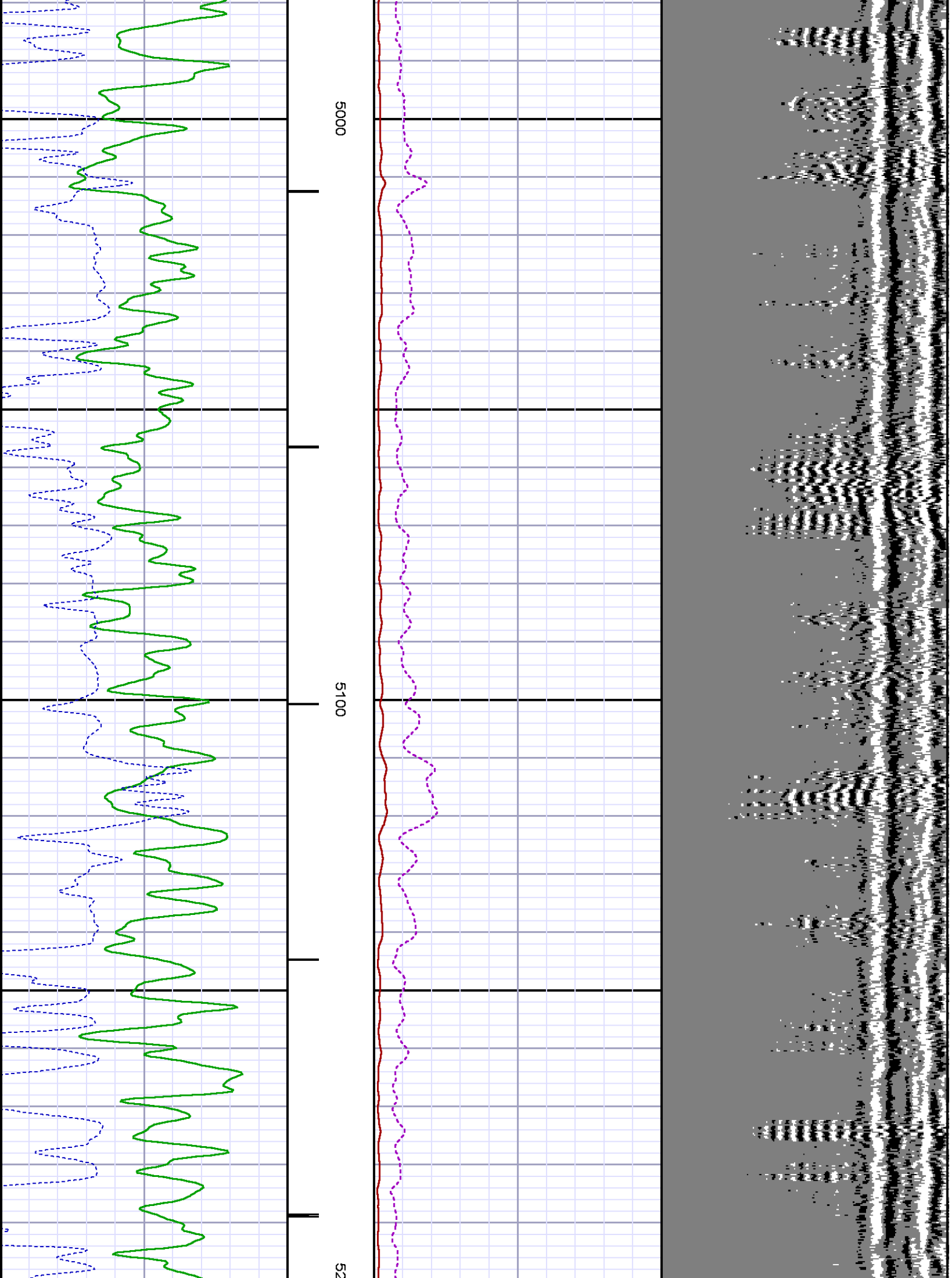


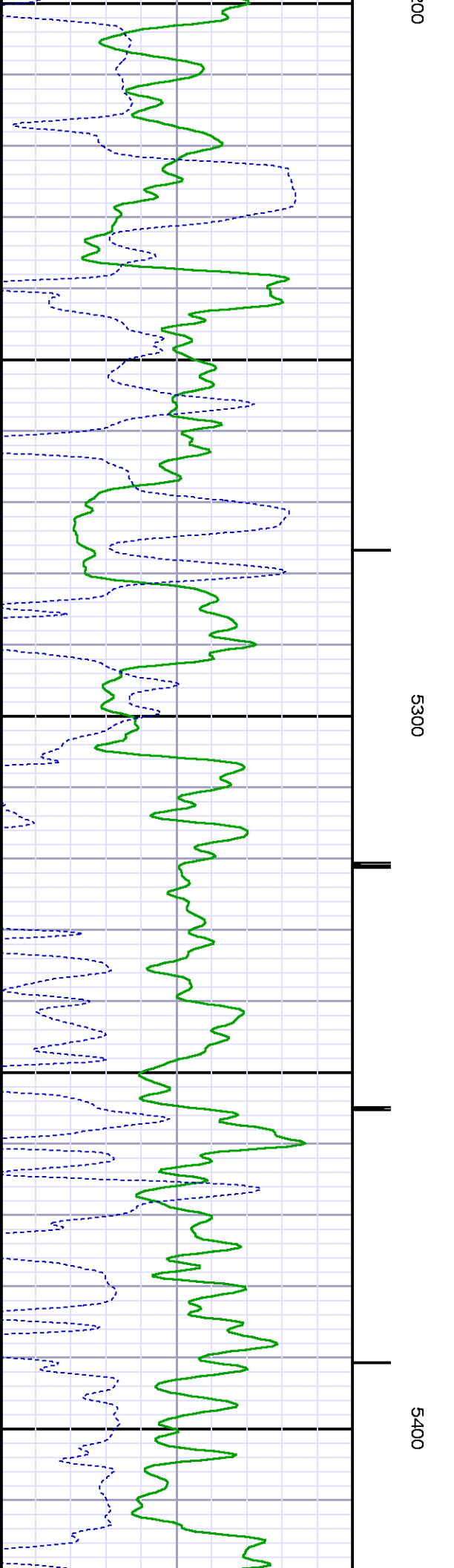
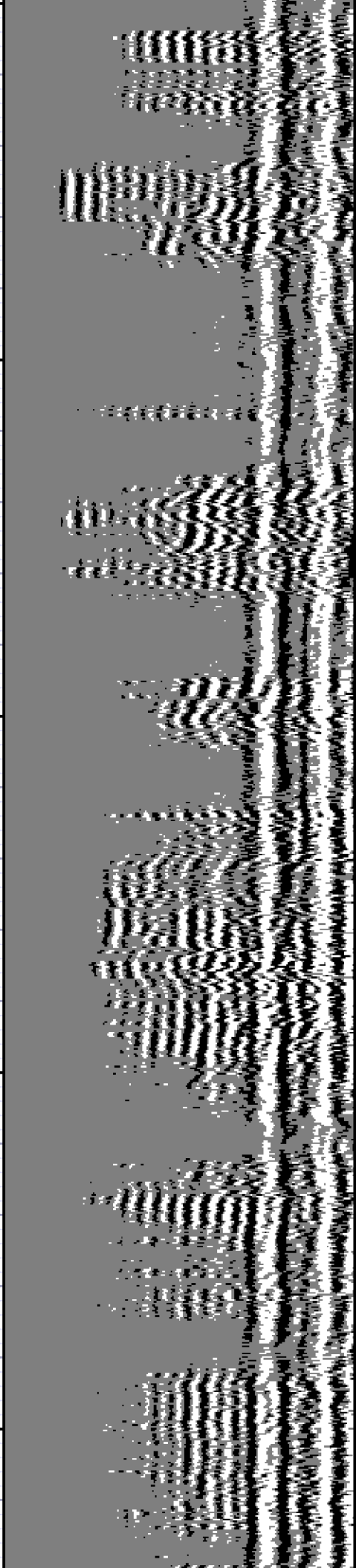


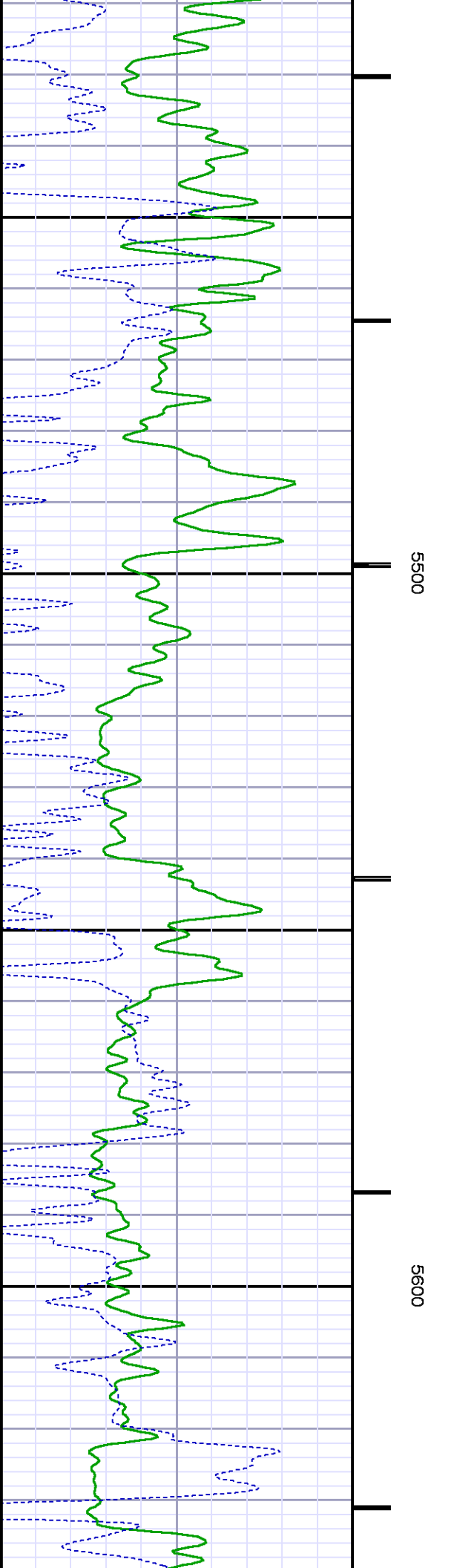
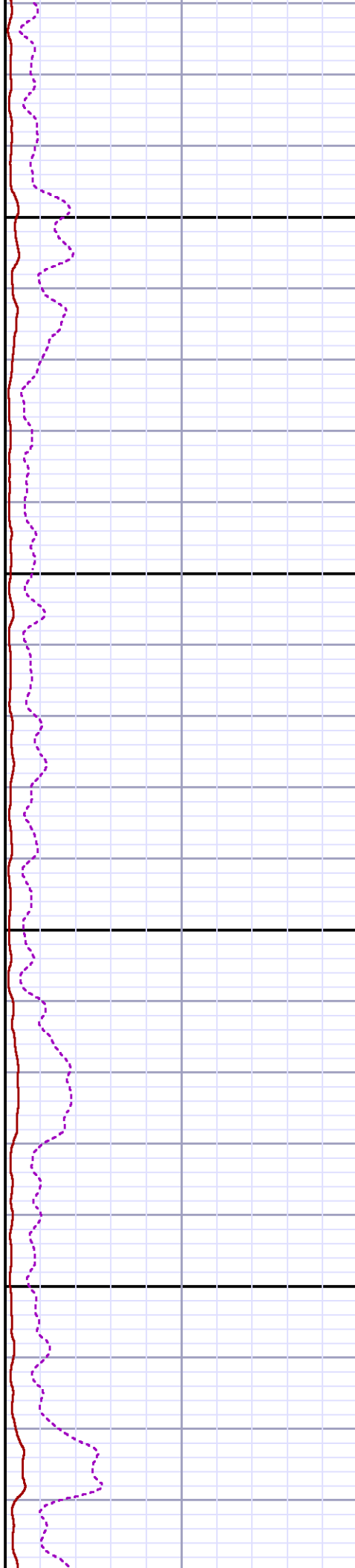
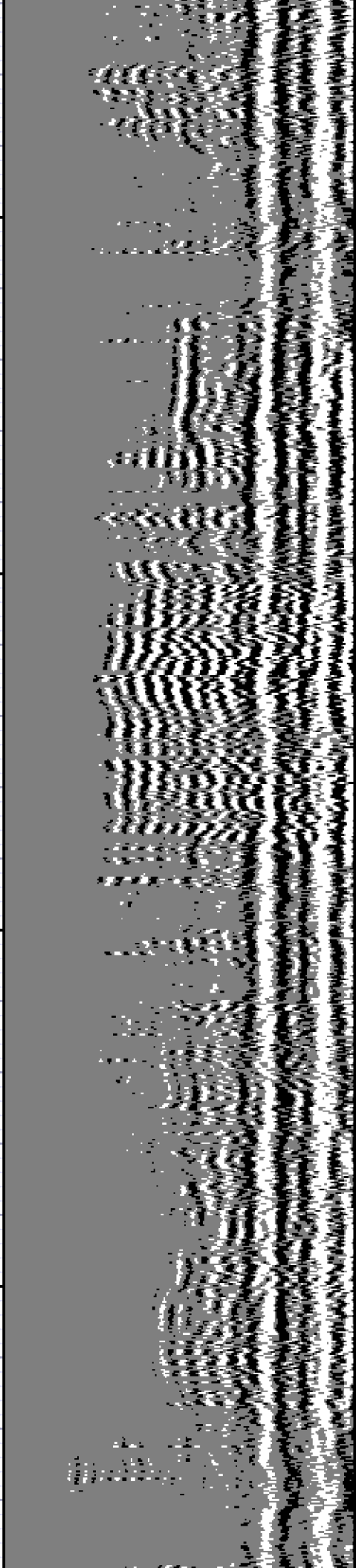


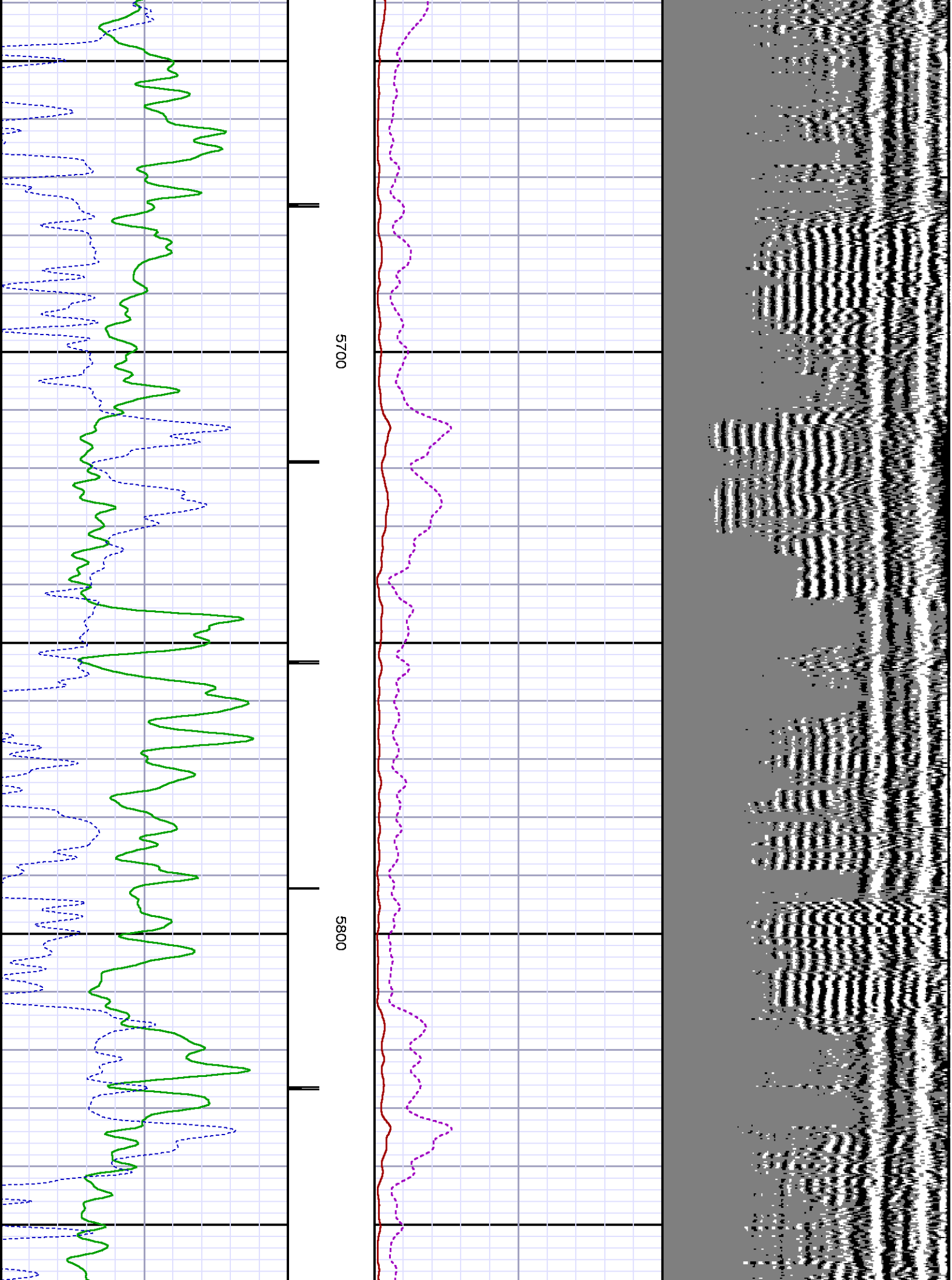


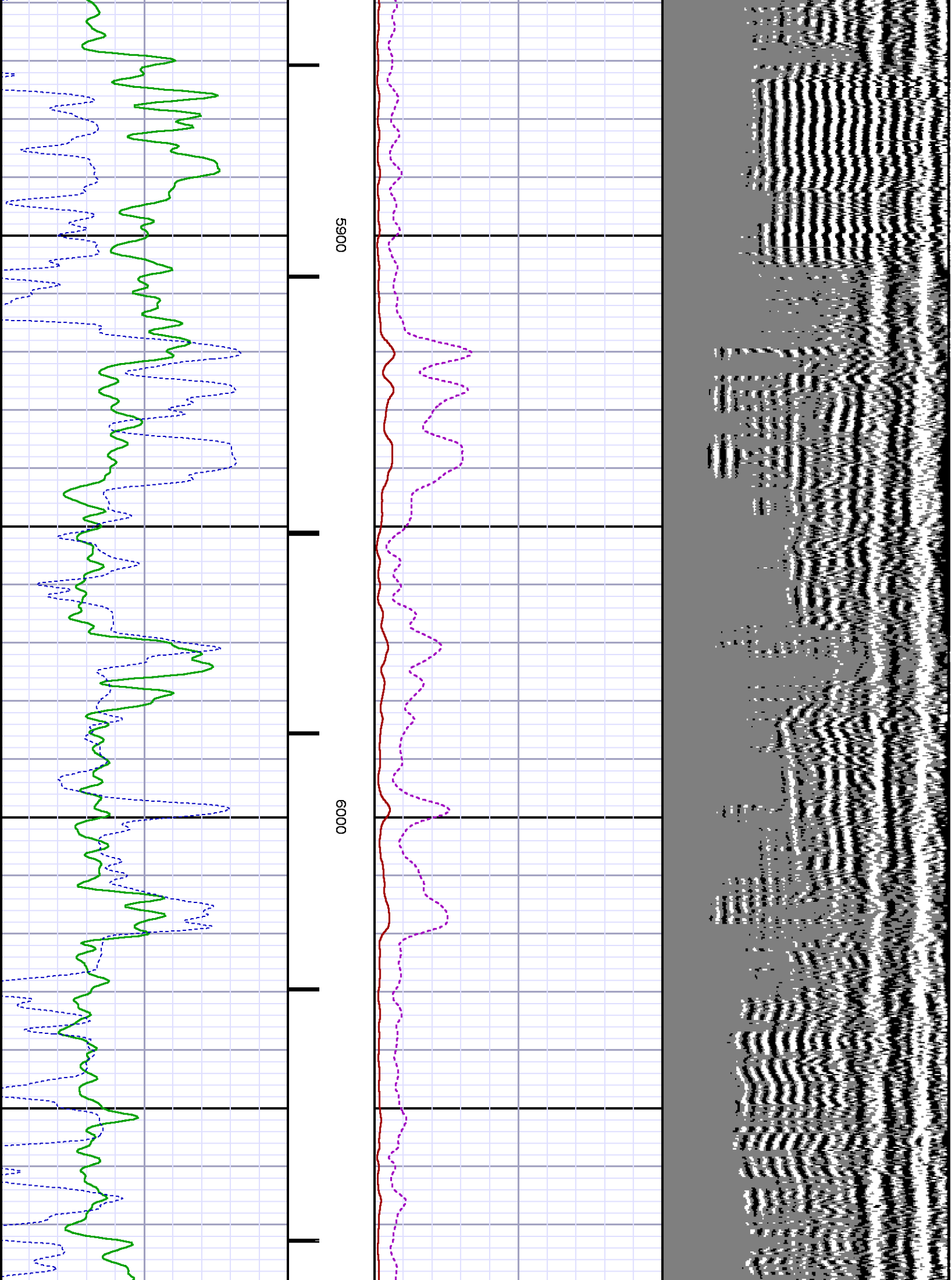


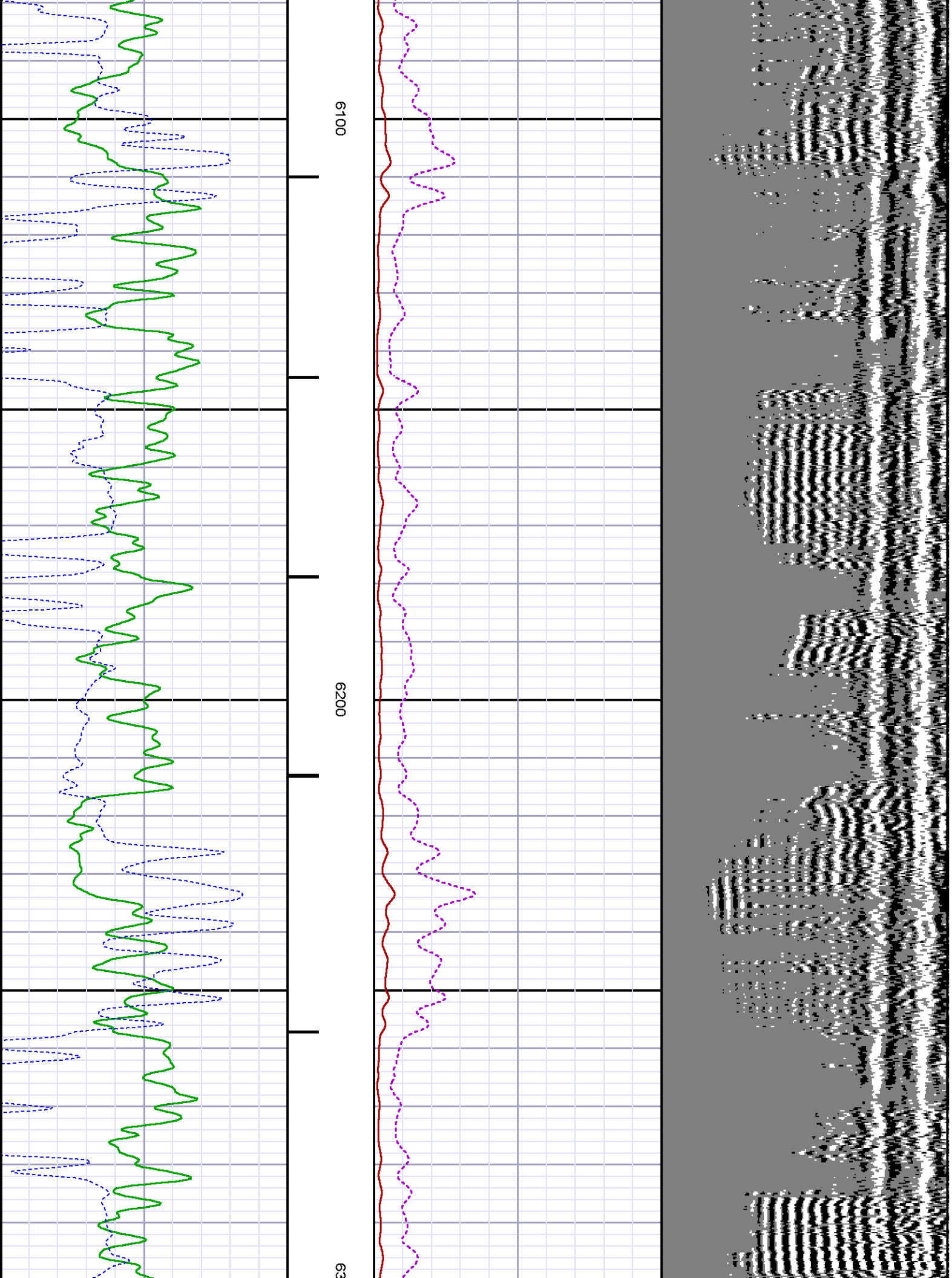


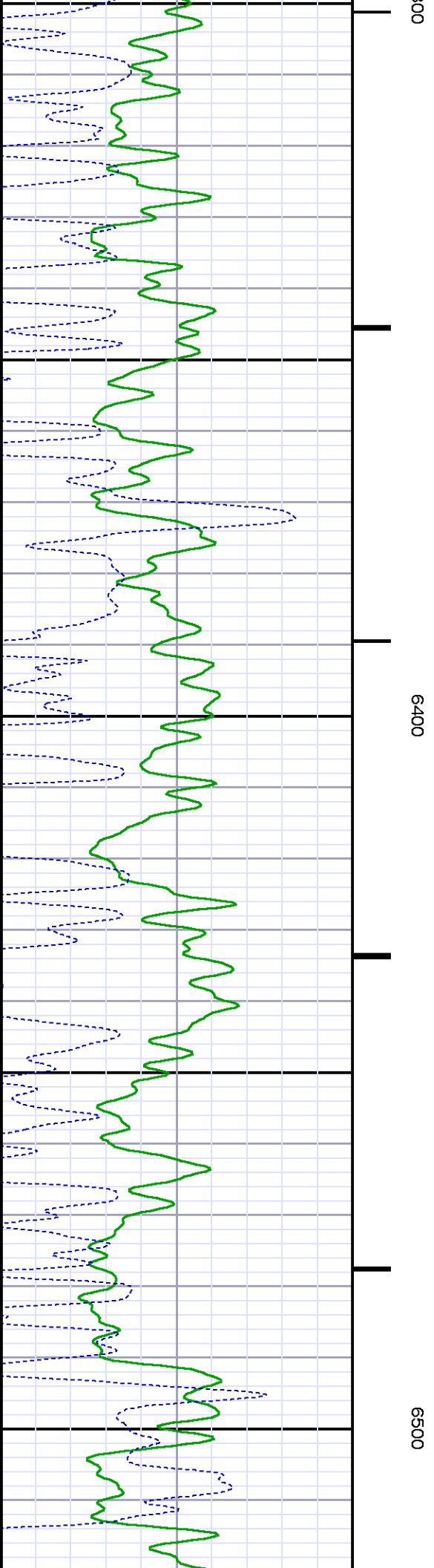
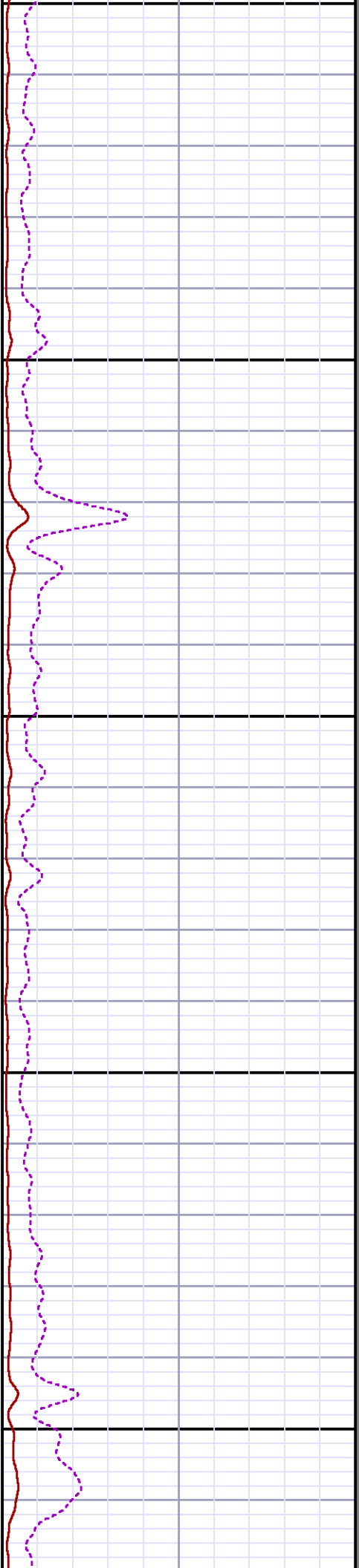
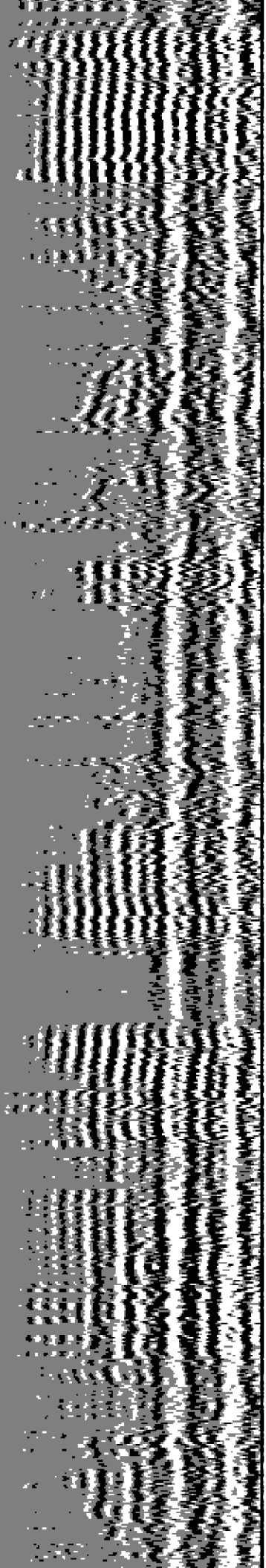


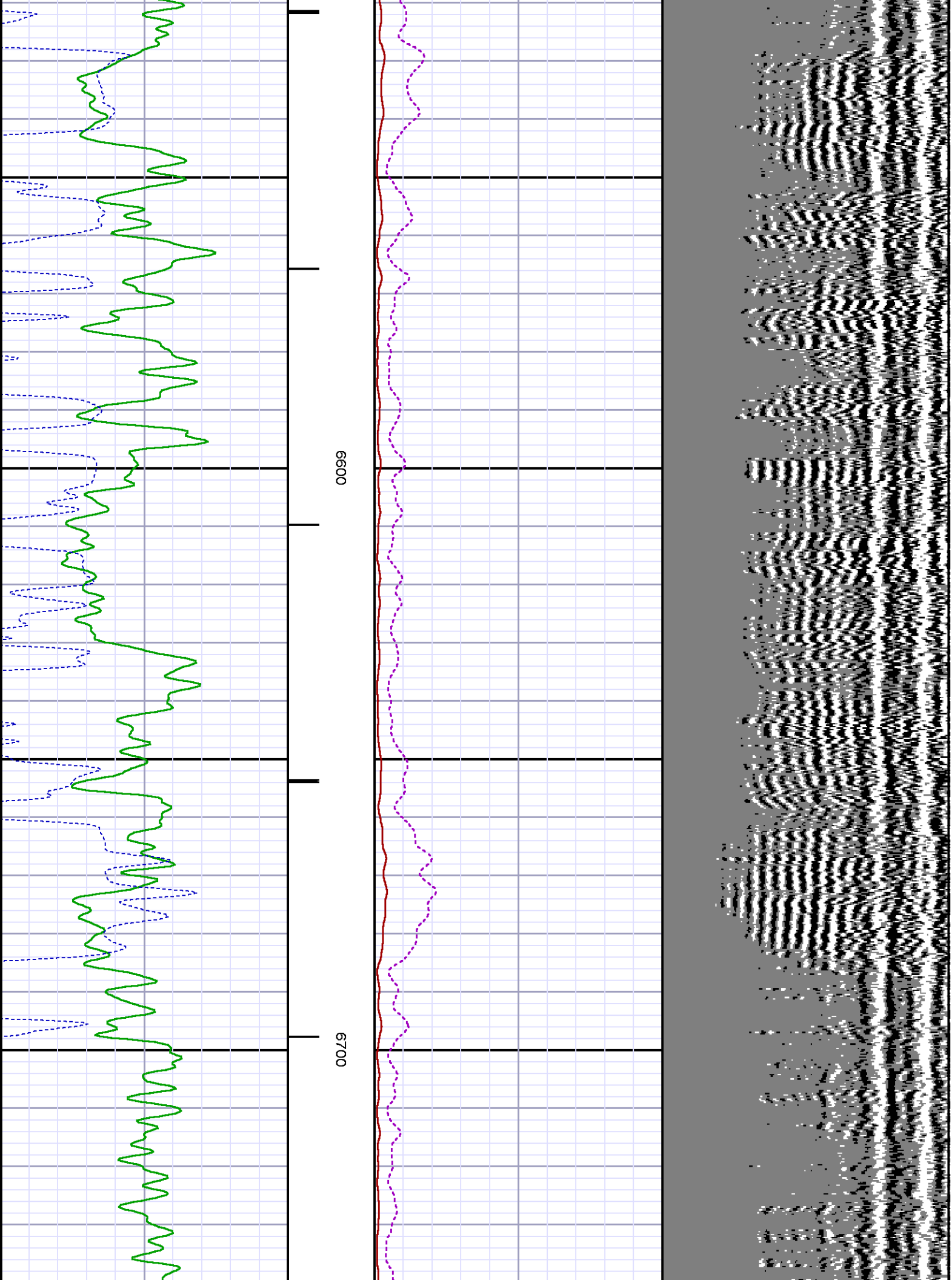


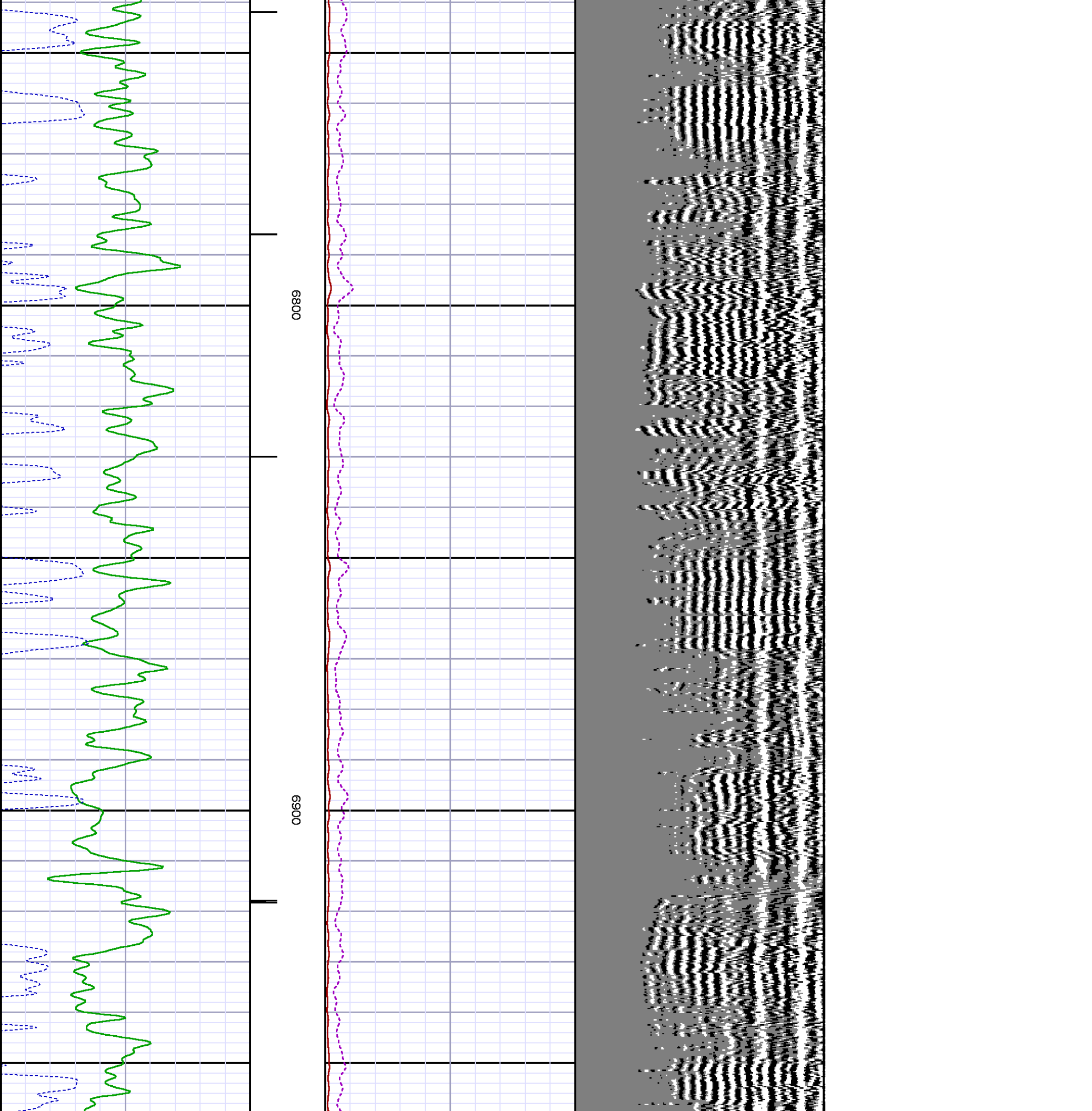


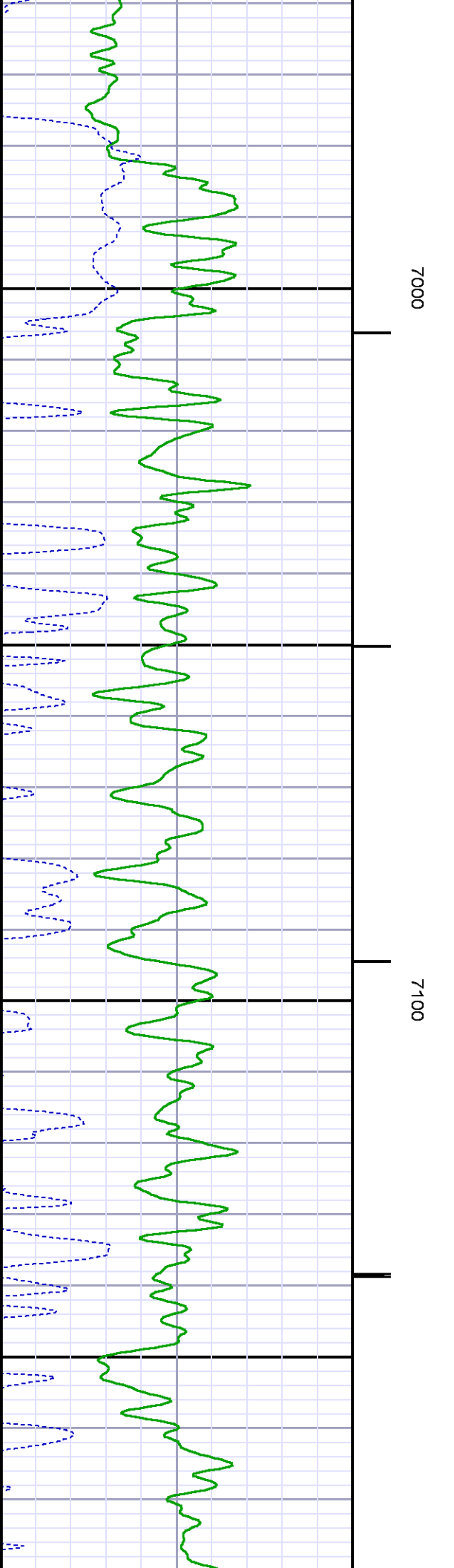
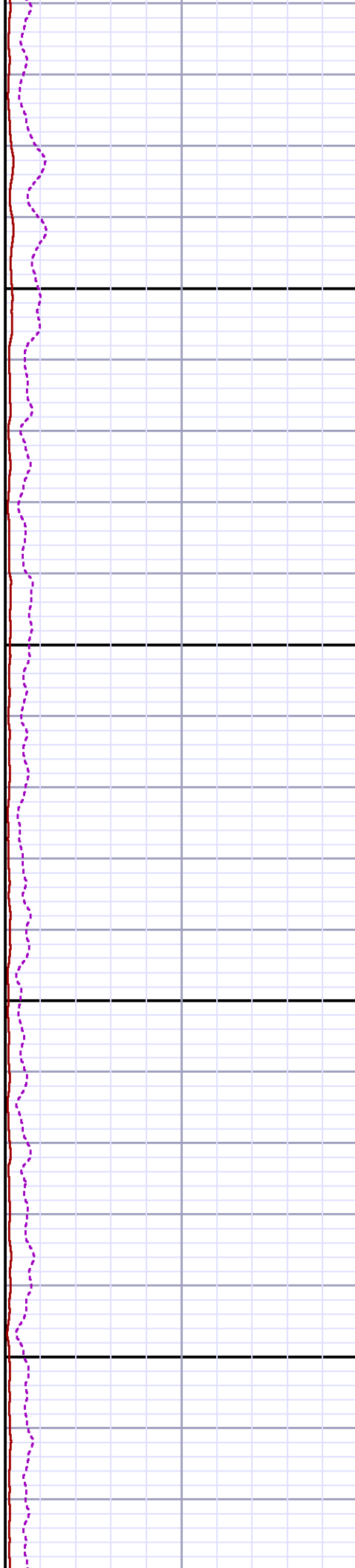
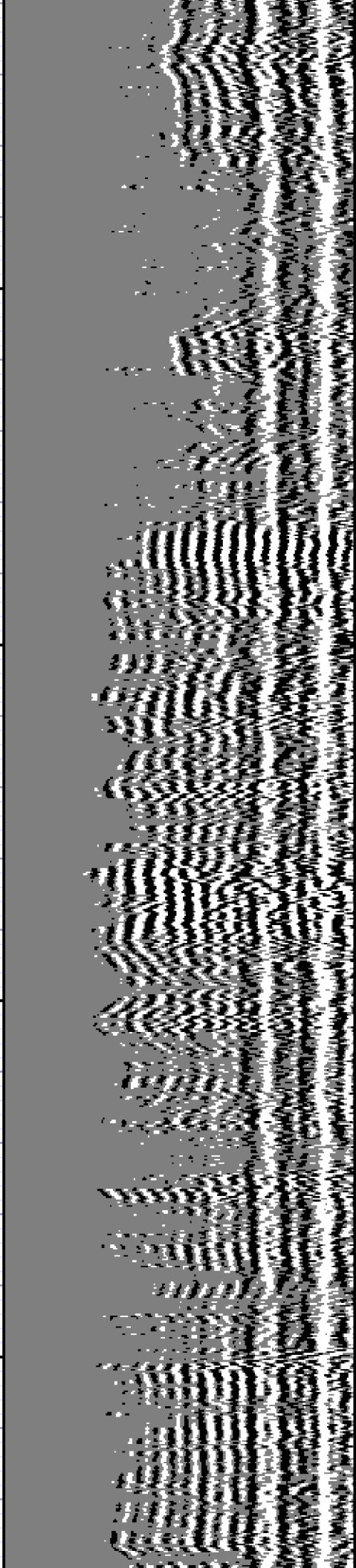


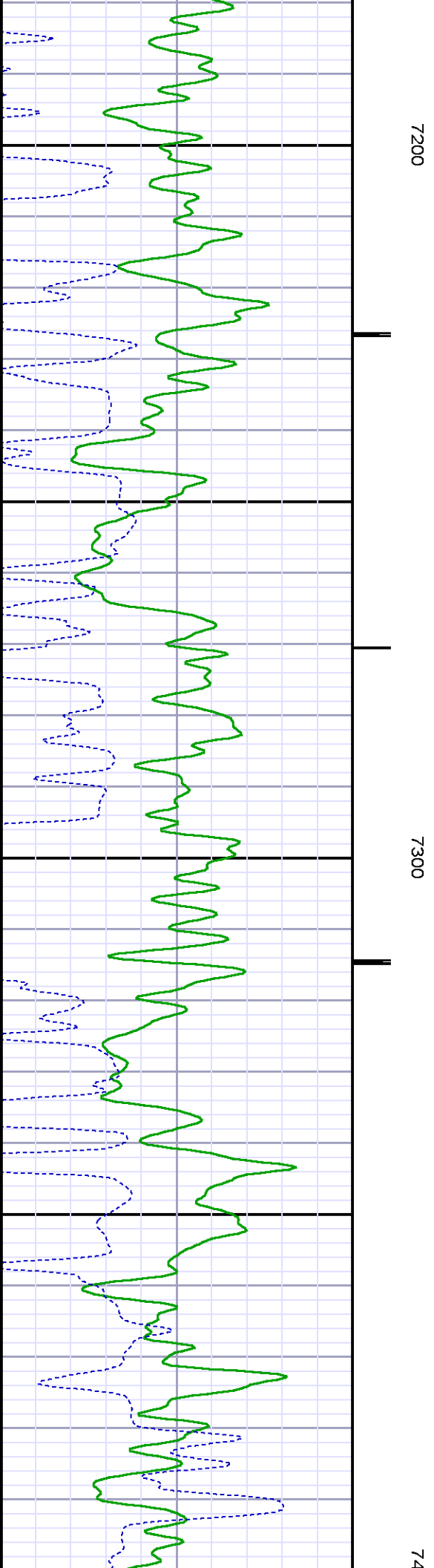
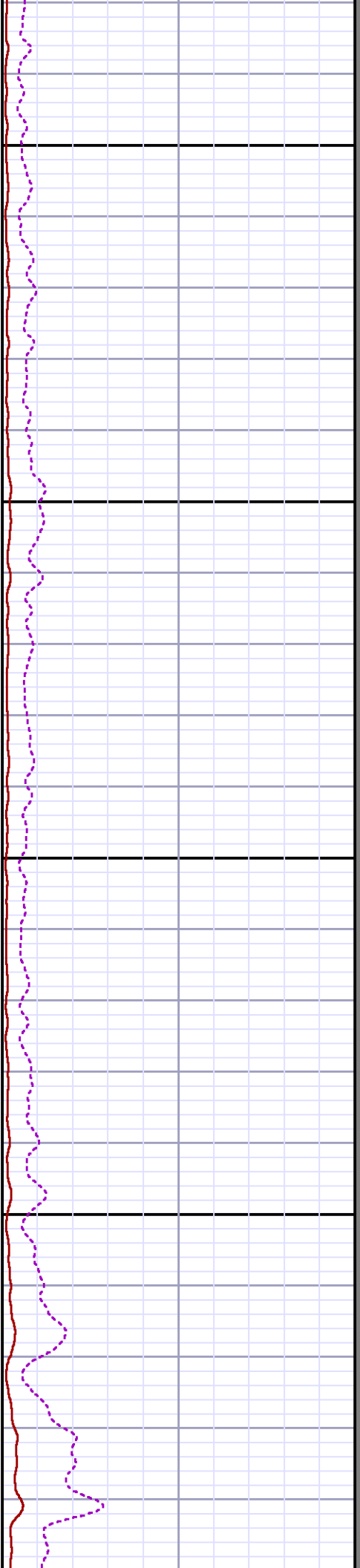
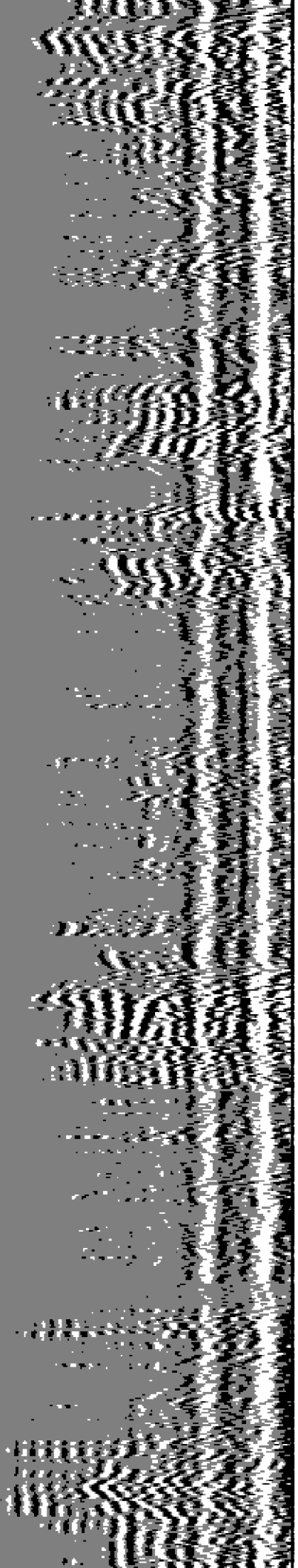


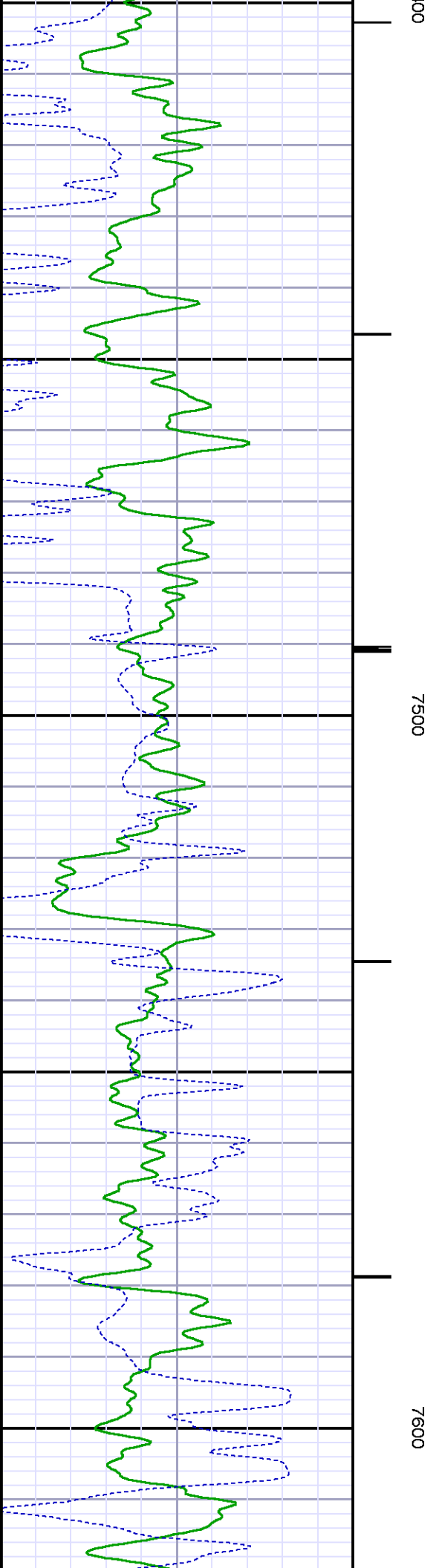
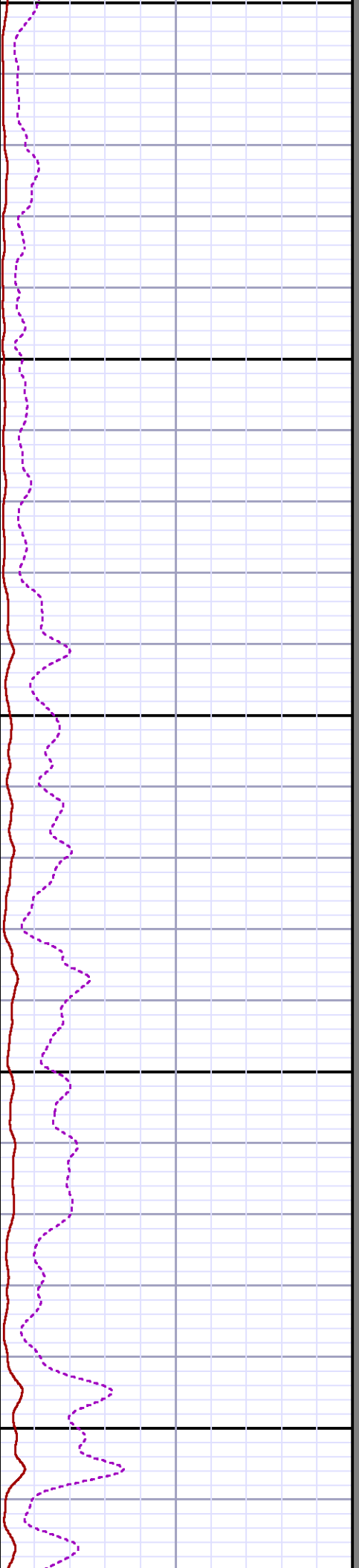
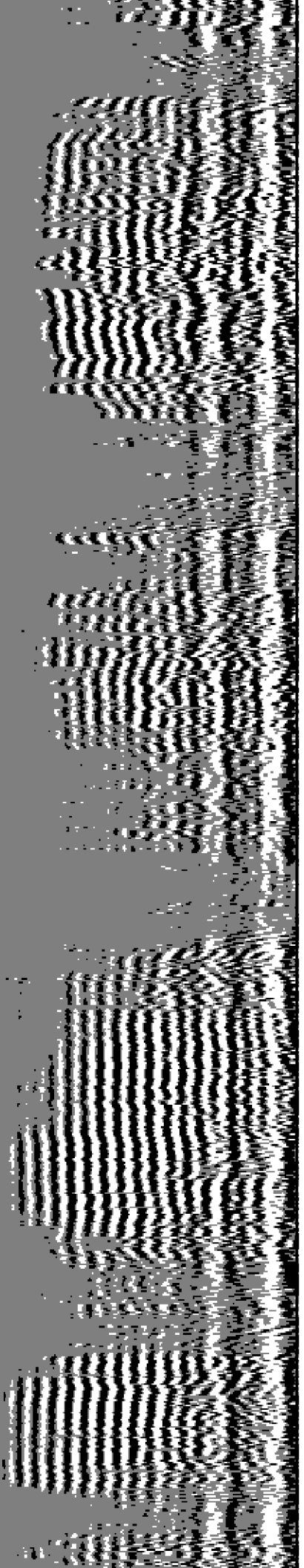


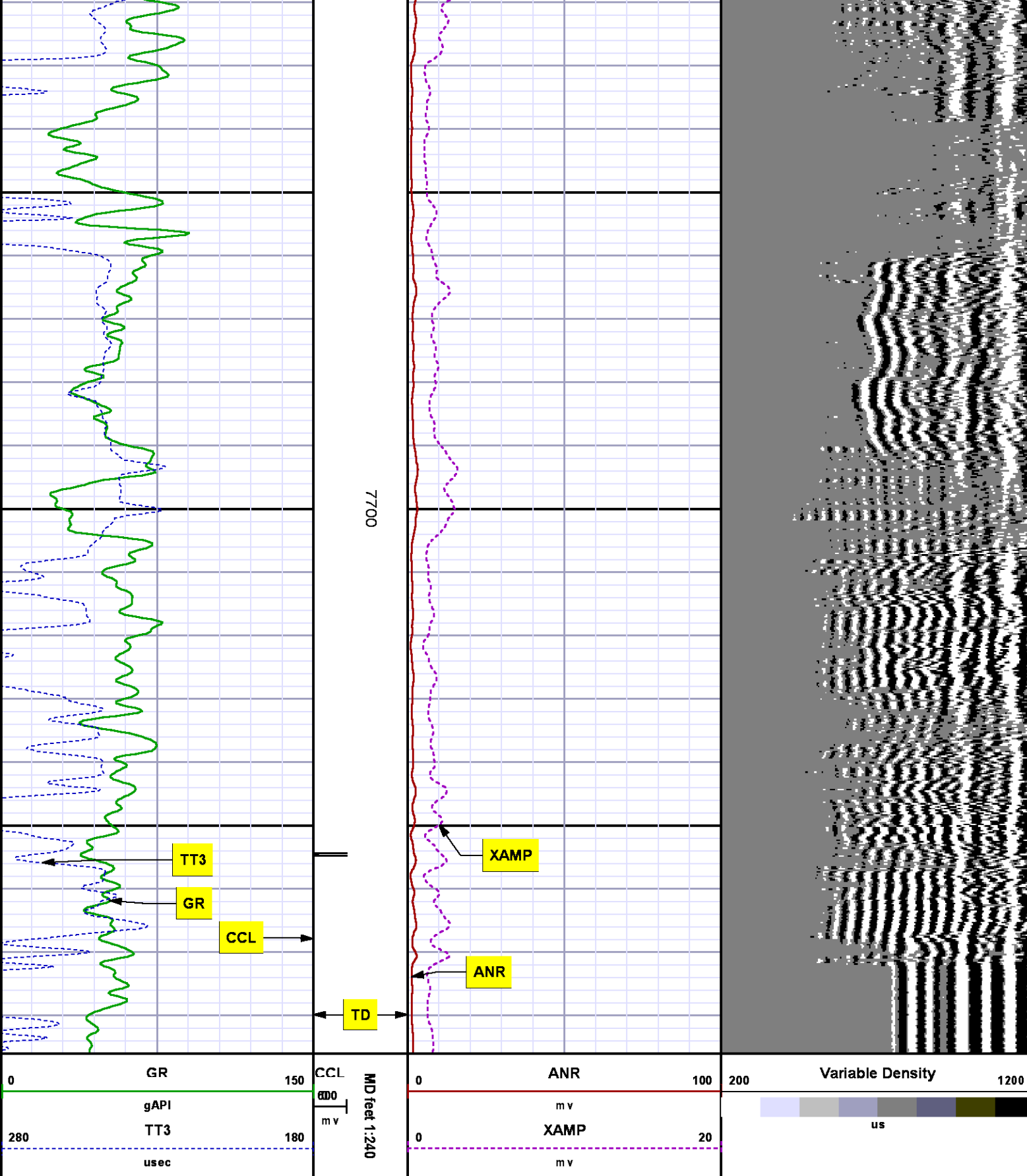












SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	16.750	7802.000
RAL	Amp Gate Start Near	195.000	usec	16.750	7802.000
RAL	Amp Gate Start Radial	195.000	usec	16.750	7802.000
RAL	Amp Gate Width Far	25.000	usec	16.750	7802.000
RAL	Amp Gate Width Near	25.000	usec	16.750	7802.000
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RAL	casing od	4.500	inches	16.750	7802.000
RAL	casing wt	11.600	lbm/ft	16.750	7802.000
RAL	FB Start Far	291.900	usec	16.750	7802.000
RAL	FB Start Near	180.000	usec	16.750	7802.000
RAL	FB Start Radial	180.000	usec	16.750	7802.000
RAL	FB Thresh Far	10.000	mv	16.750	7802.000
RAL	FB Thresh Near	4.000	mv	16.750	7802.000
RAL	FB Thresh Radial	4.000	mv	16.750	7802.000
RAL	Fluid Travel Time	200.000	usec/ft	16.750	7801.750

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
		ACAL	ANR	AR1	AR2	AR3	AR4
1426XA	-11.000	AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
		AFAR	SIG	TT5			
1426XA	-10.040						
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

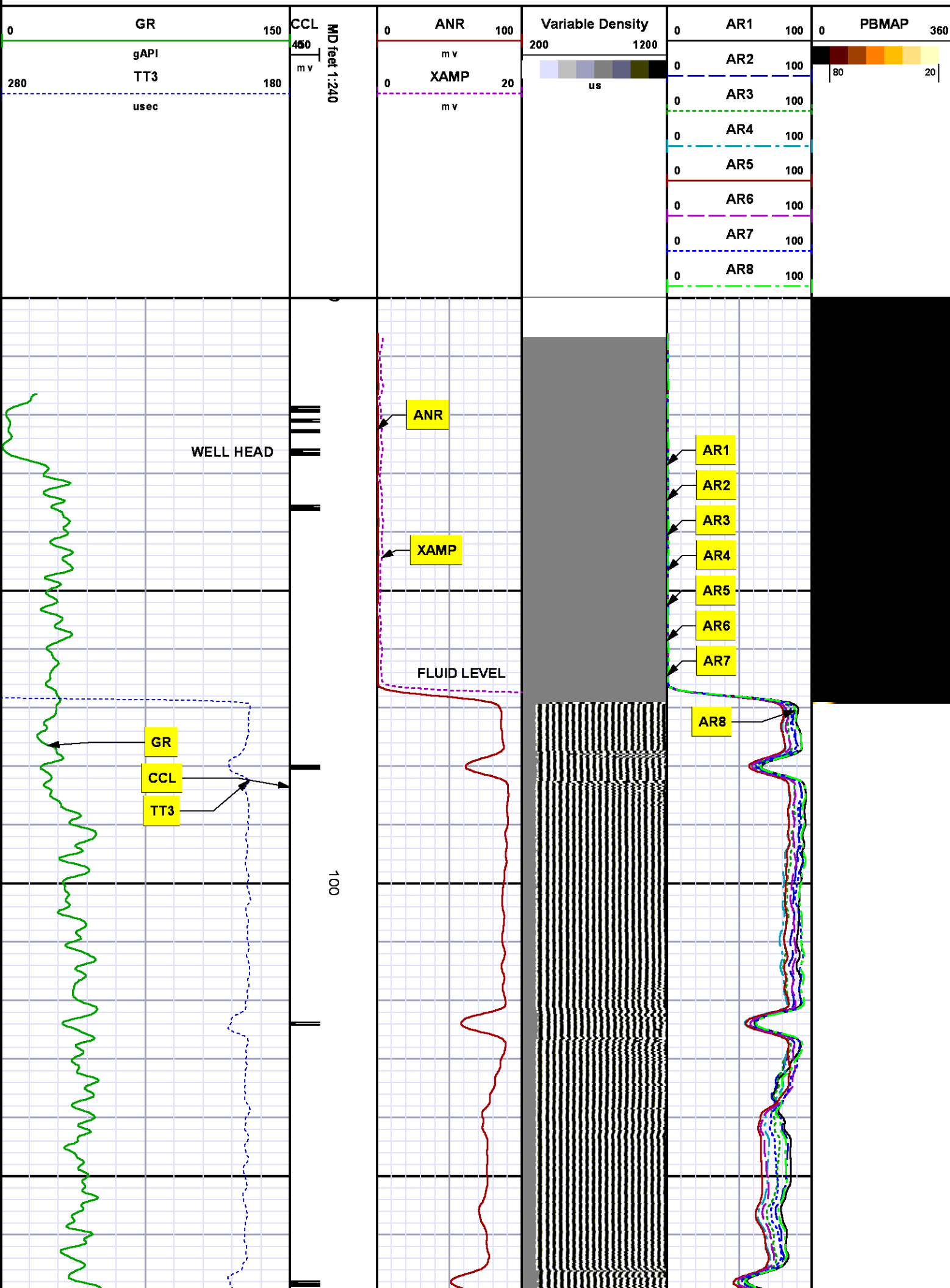
Well : GOLDSBOROUGH PA 22-11

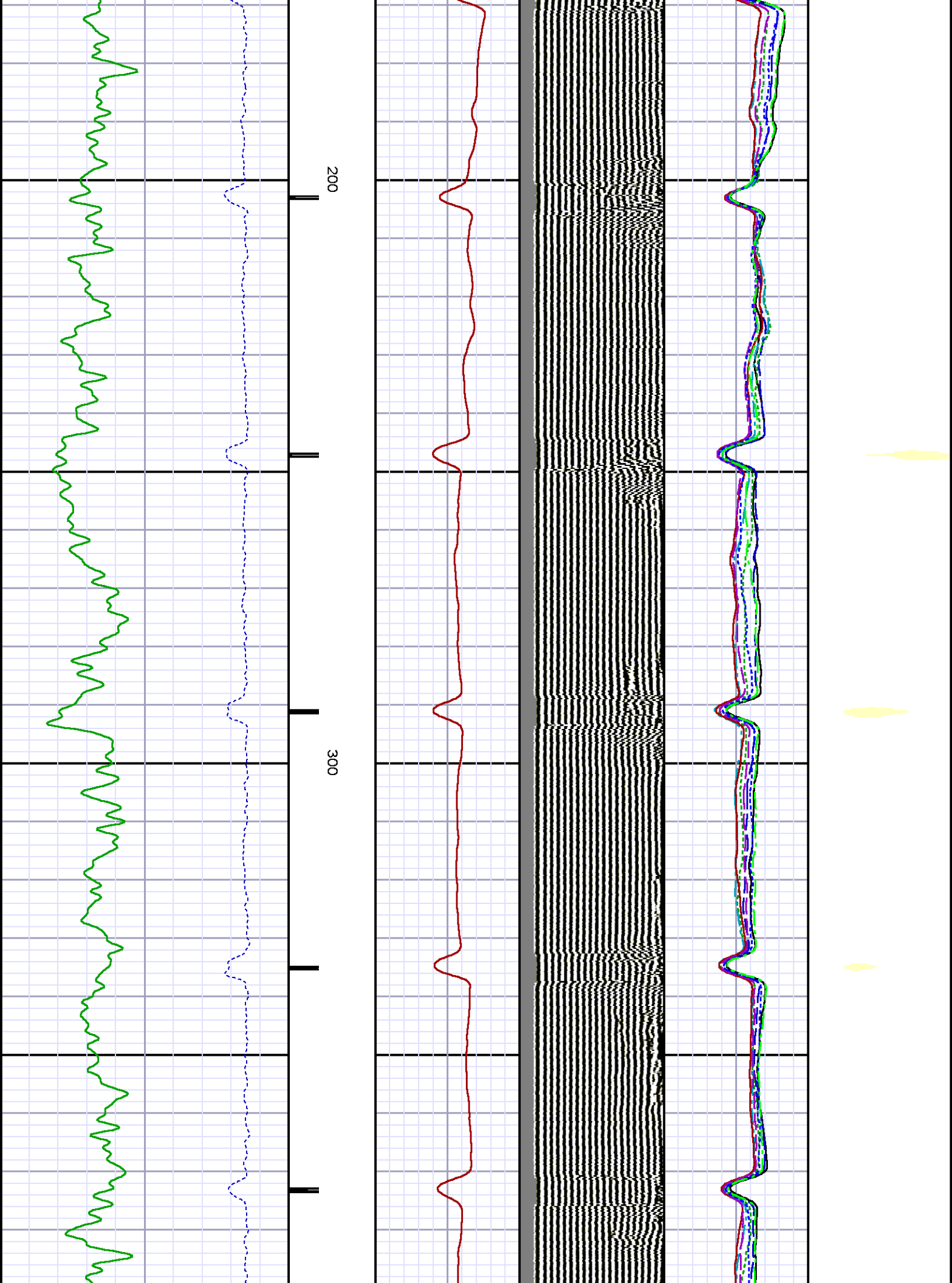
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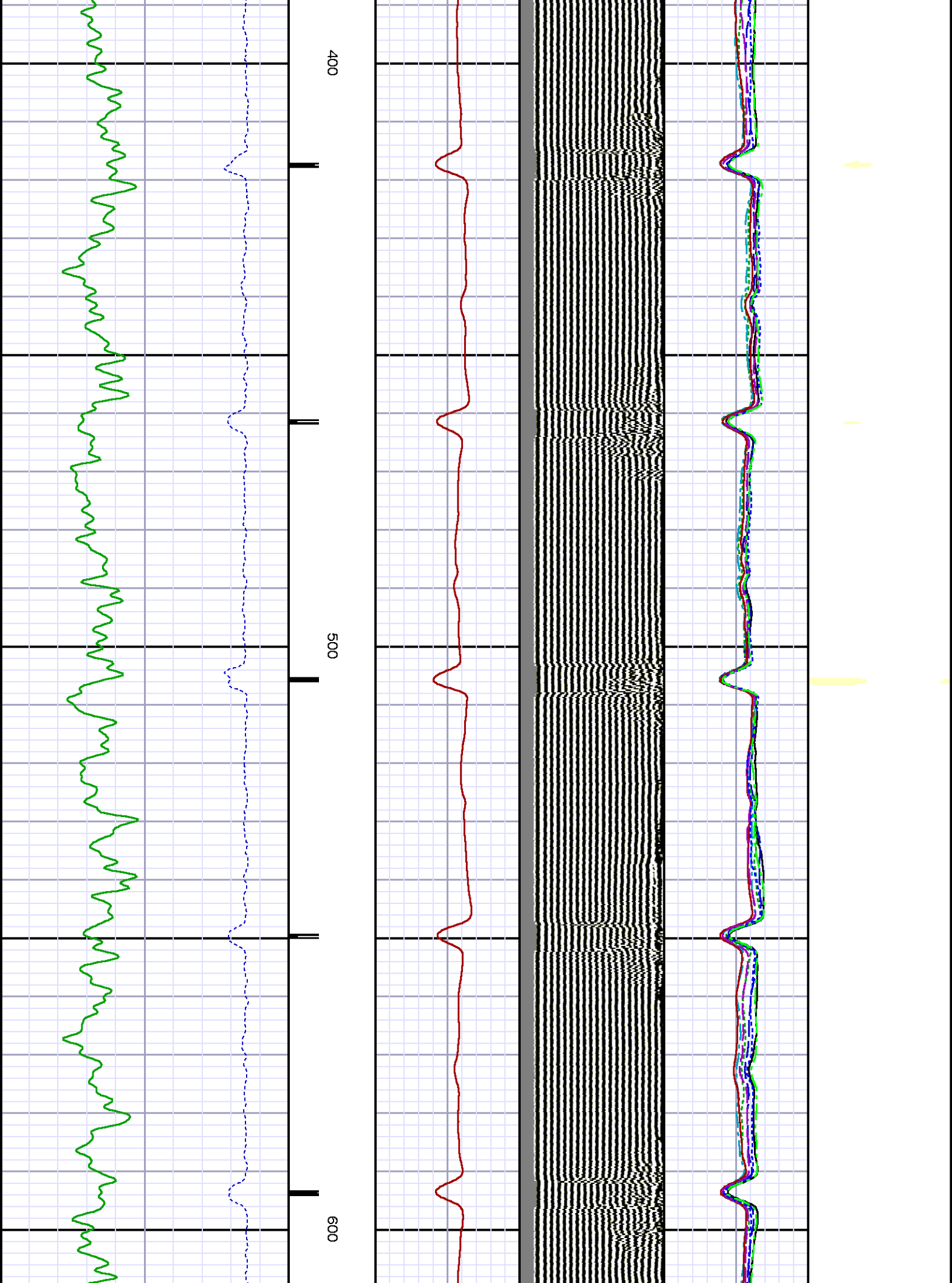
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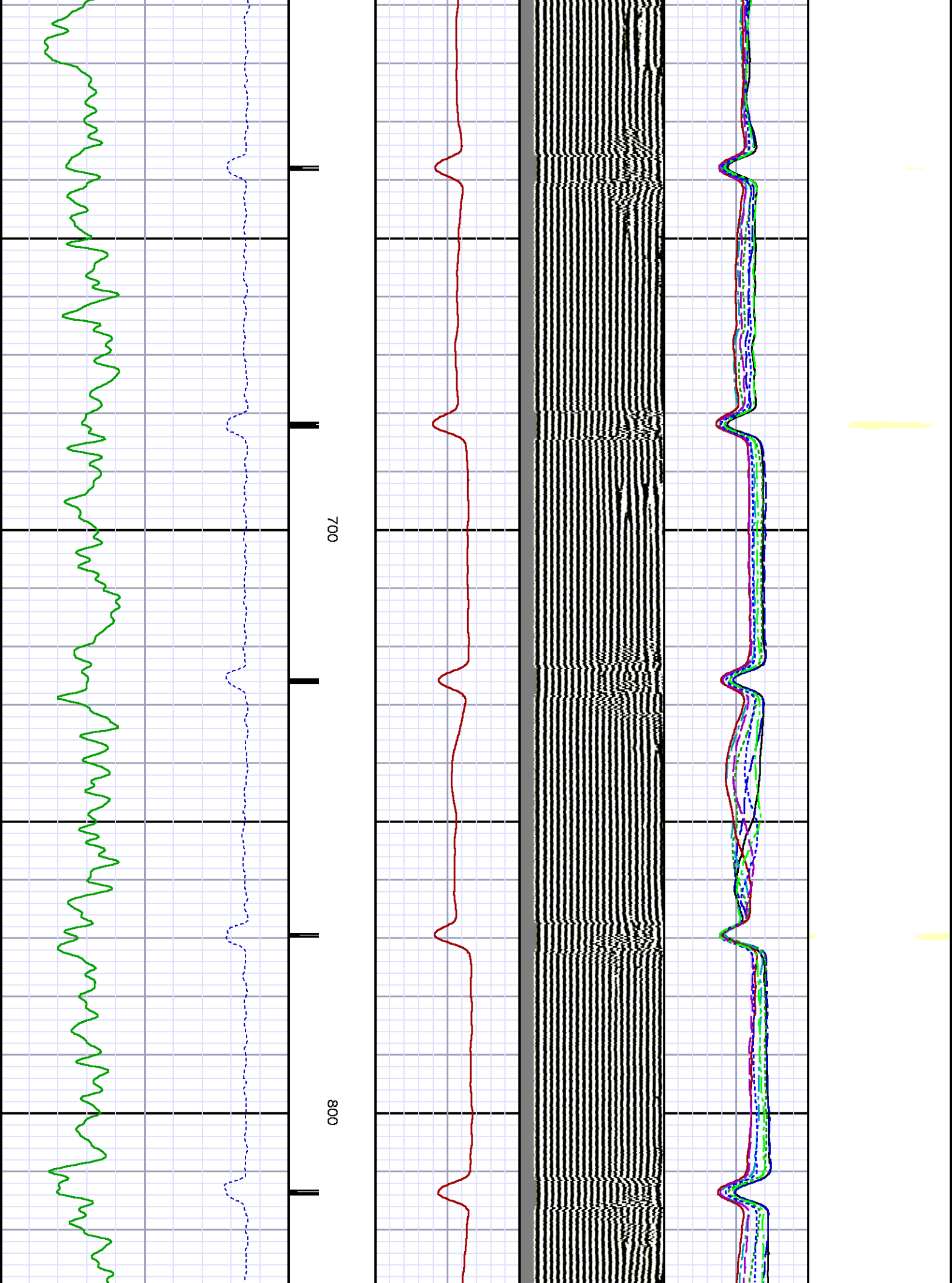
Interval : 0.00 - 7786.00 feet UP

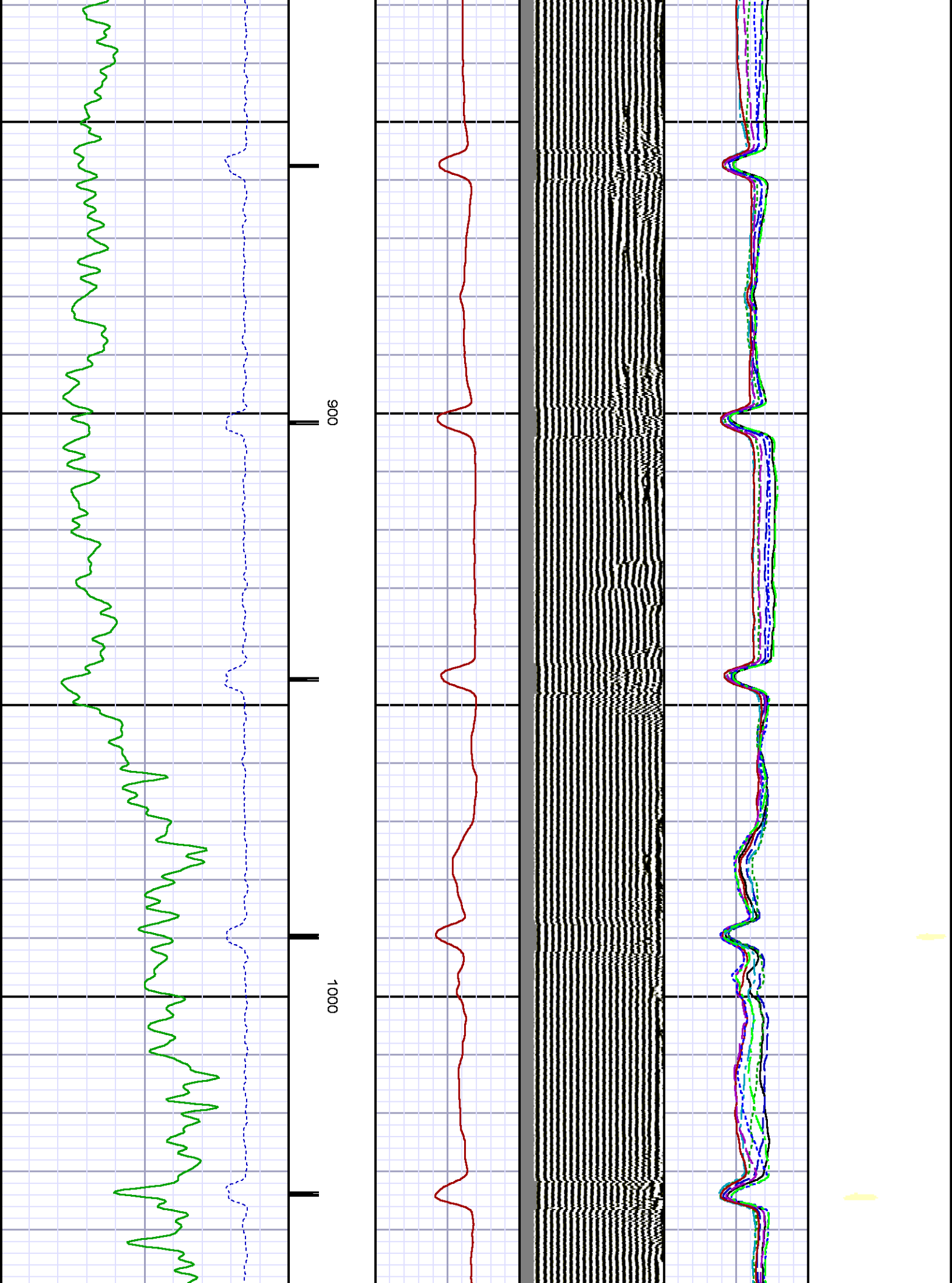
Created : 6/13/2013 6:55:24 PM

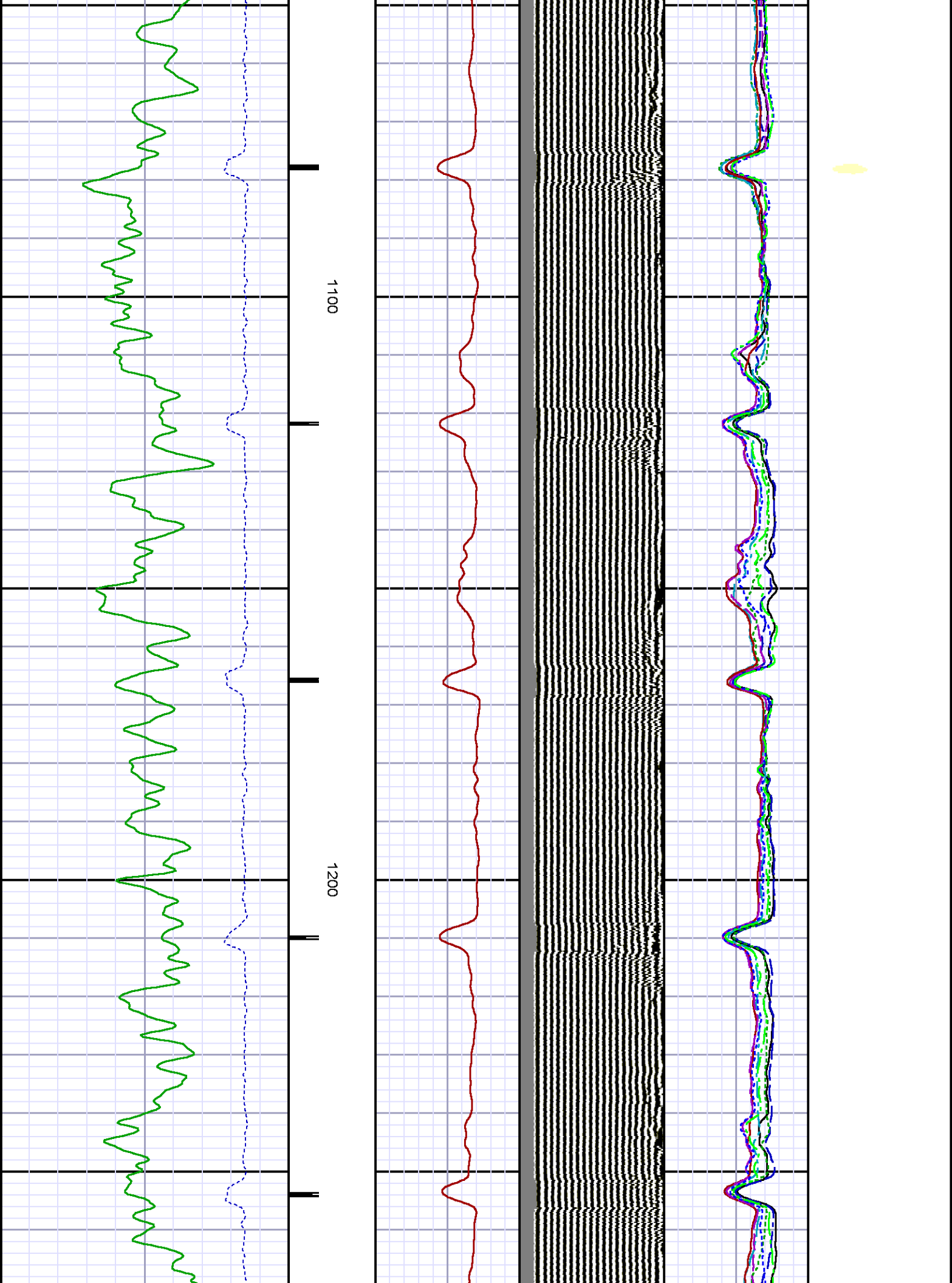


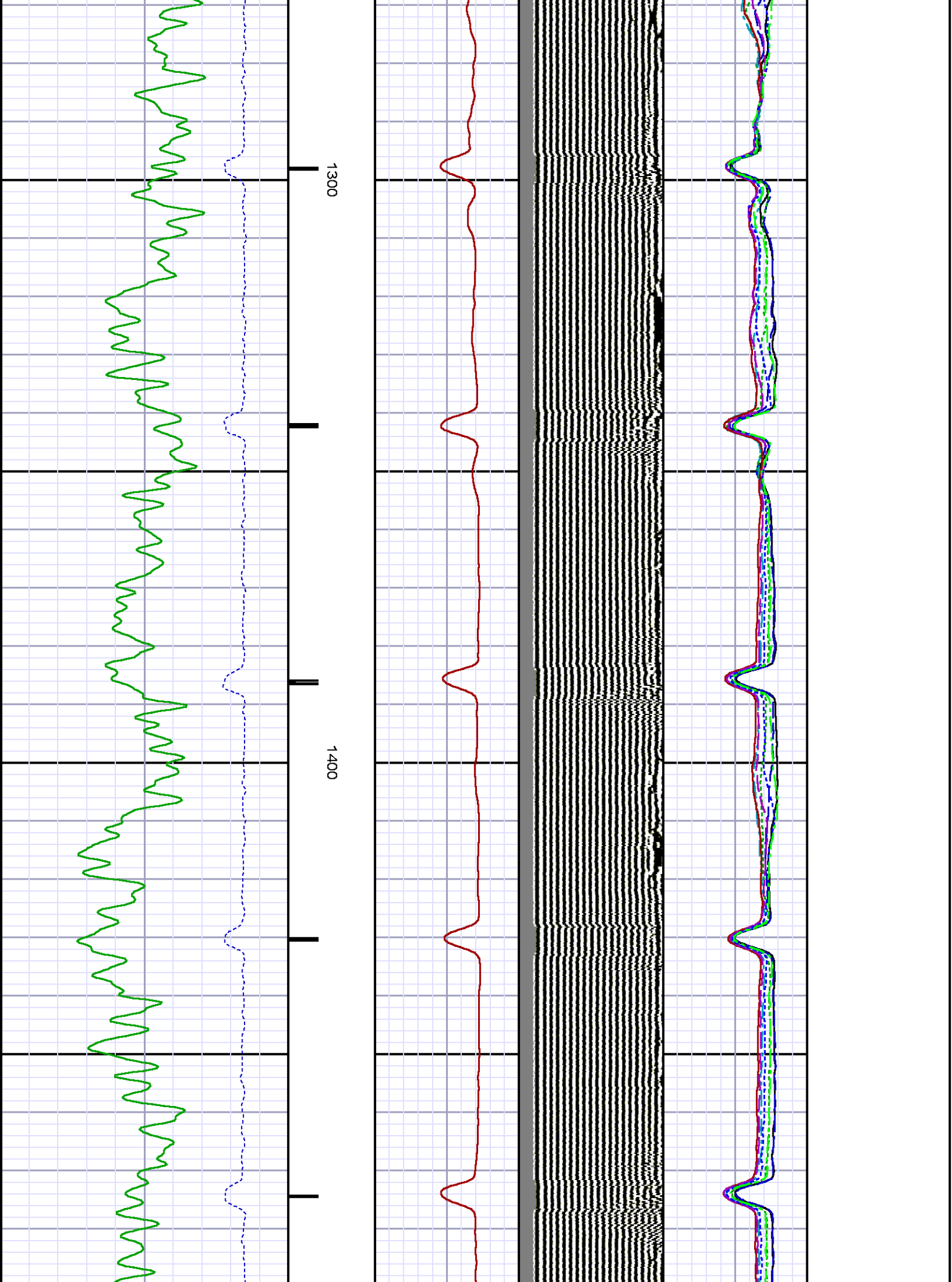


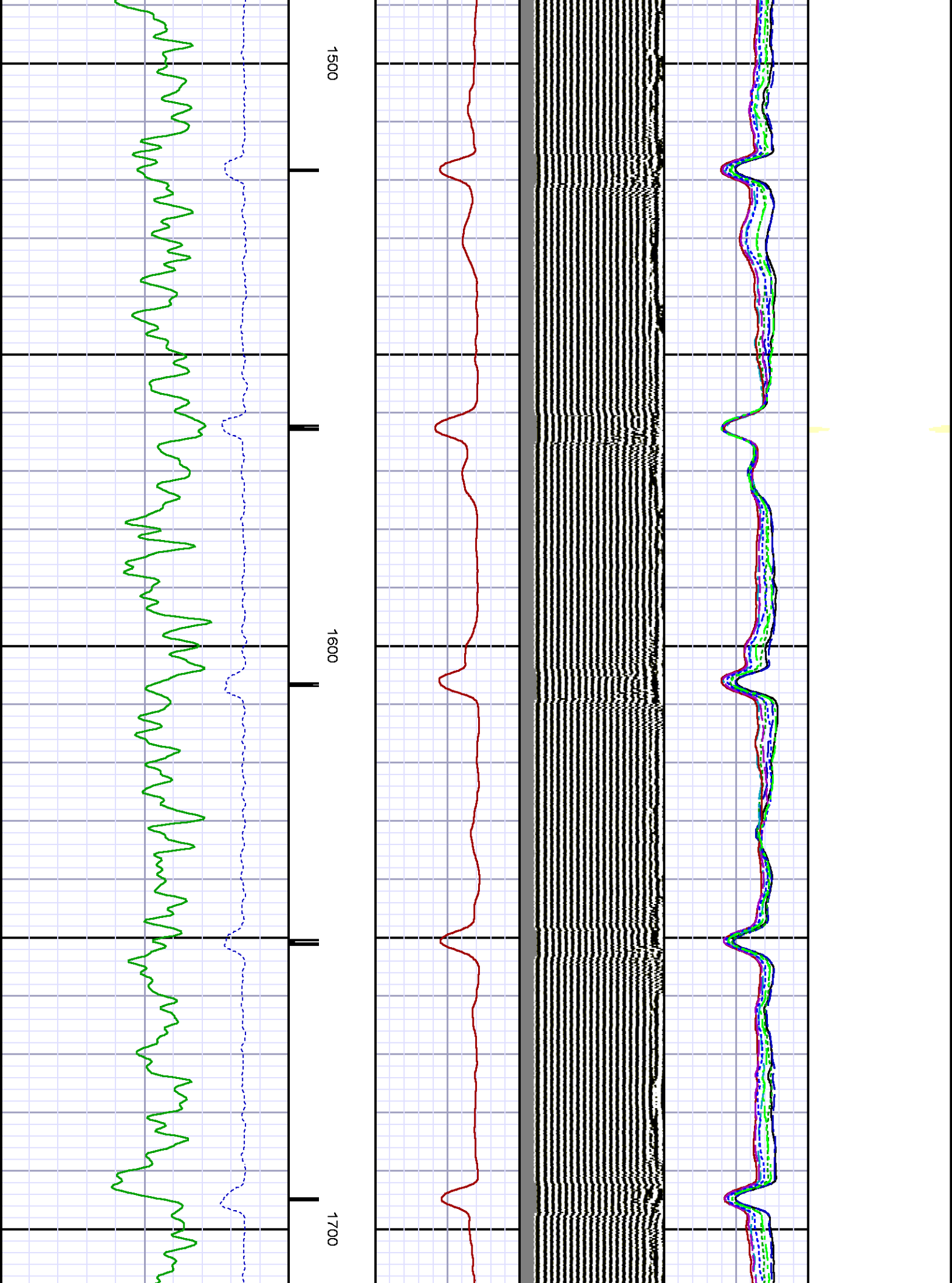


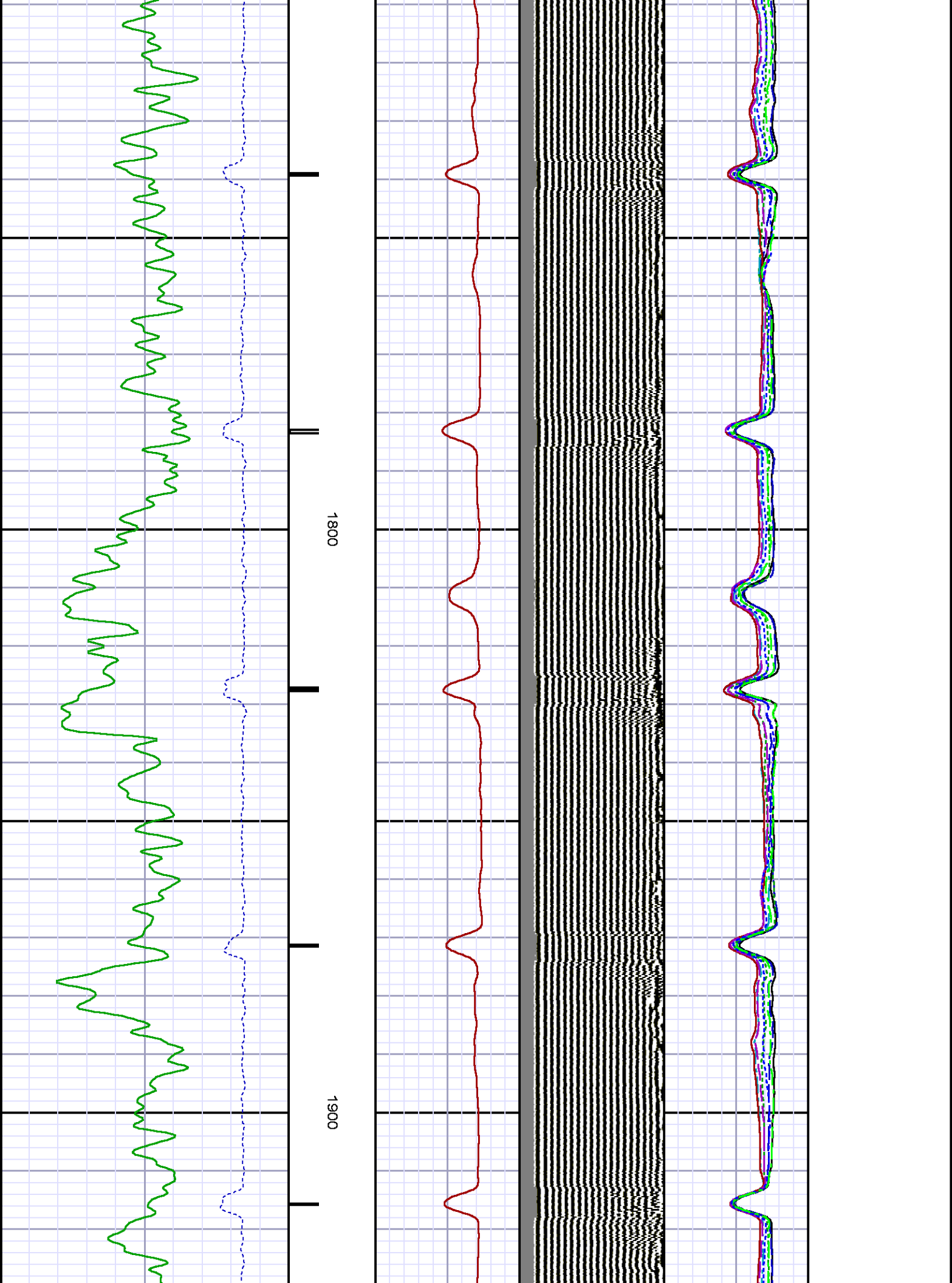


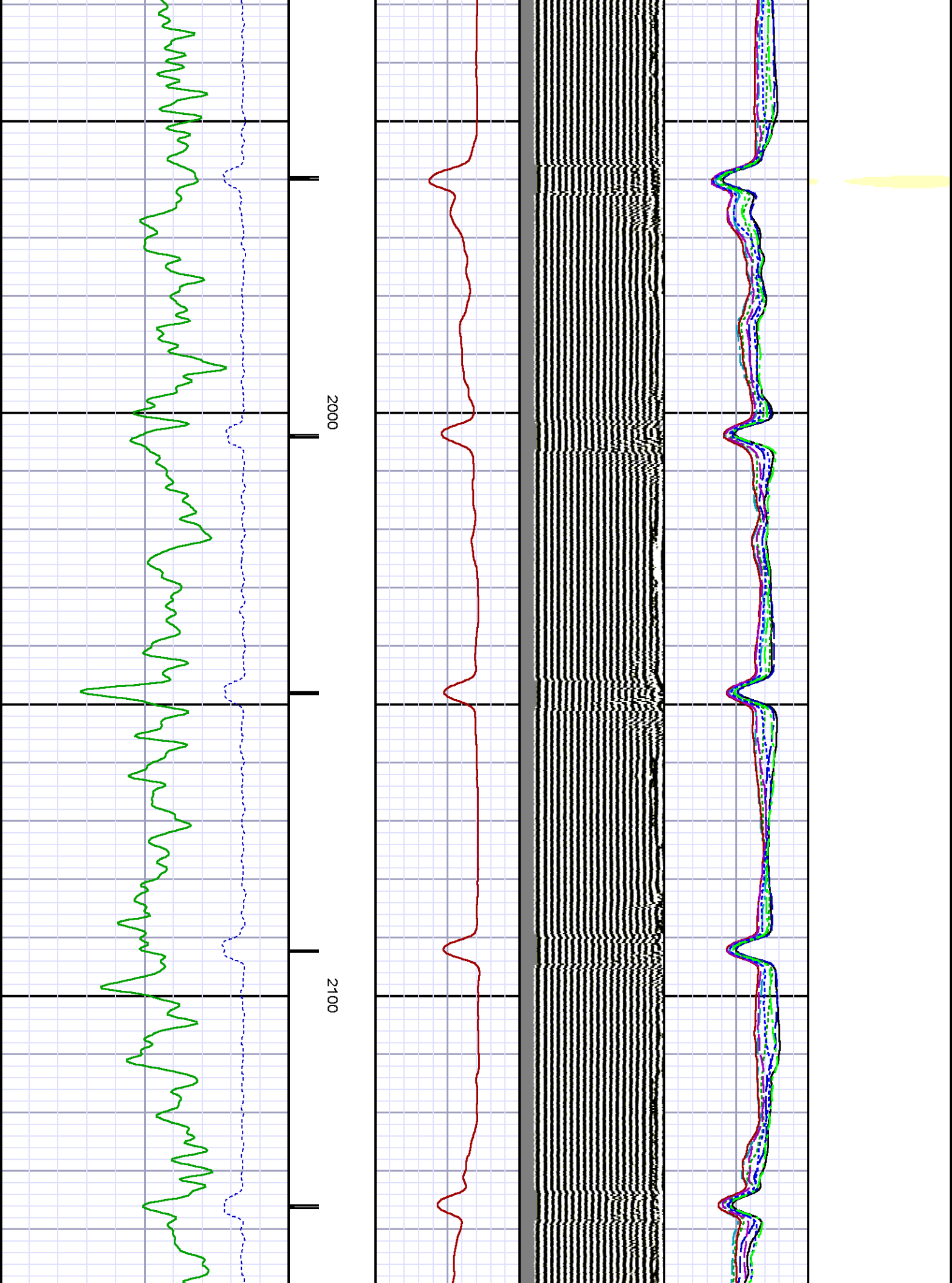


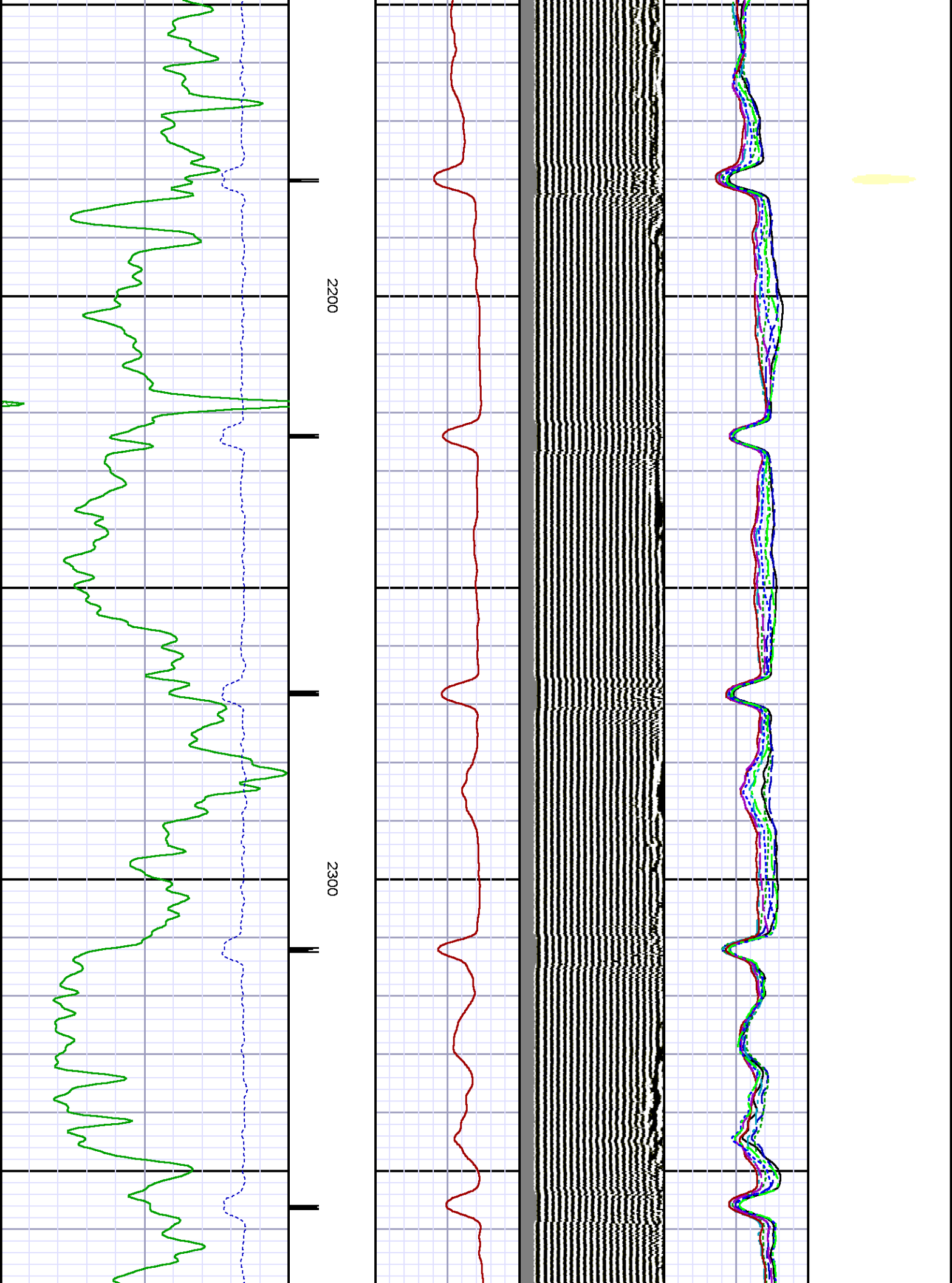


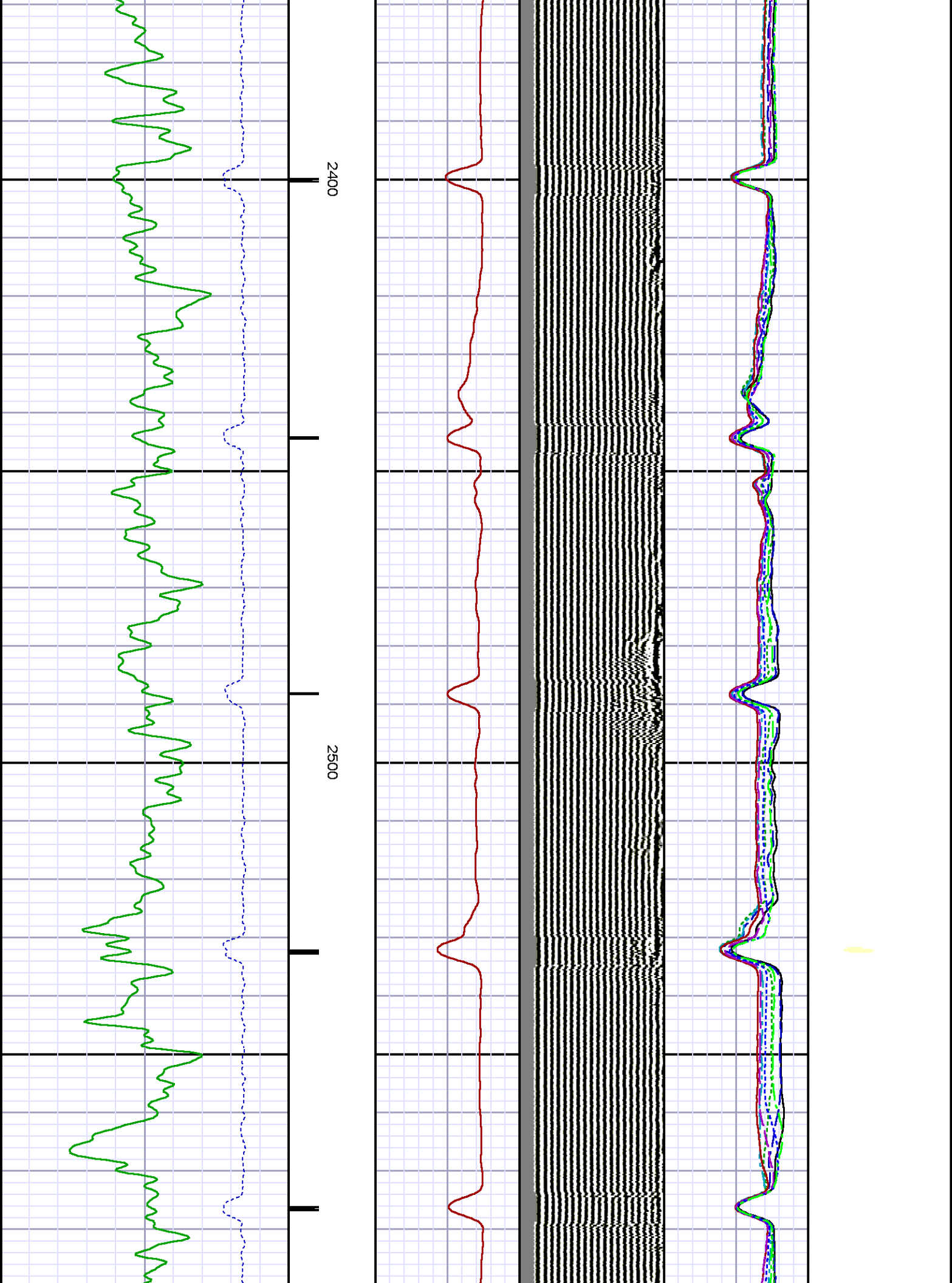


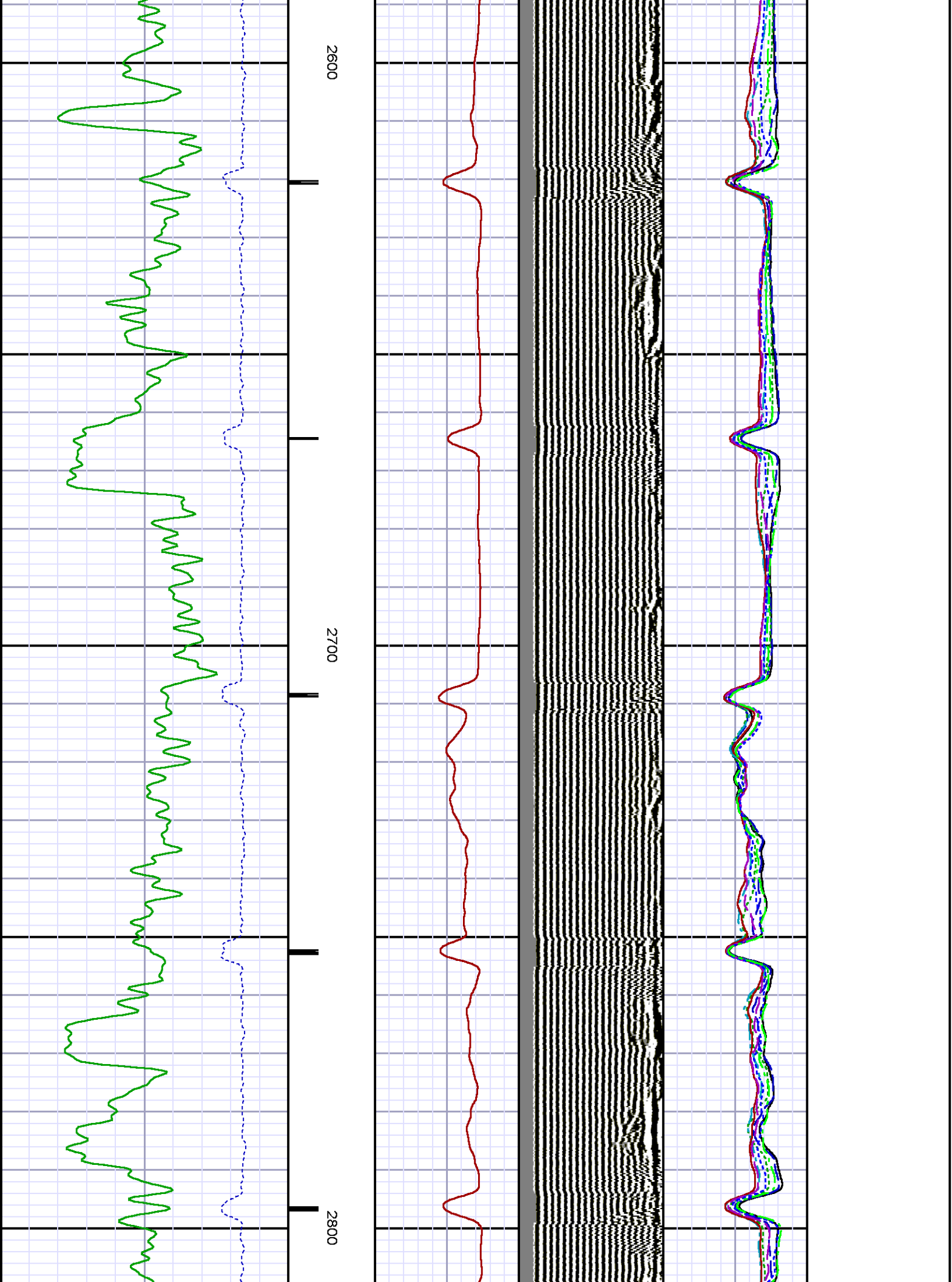


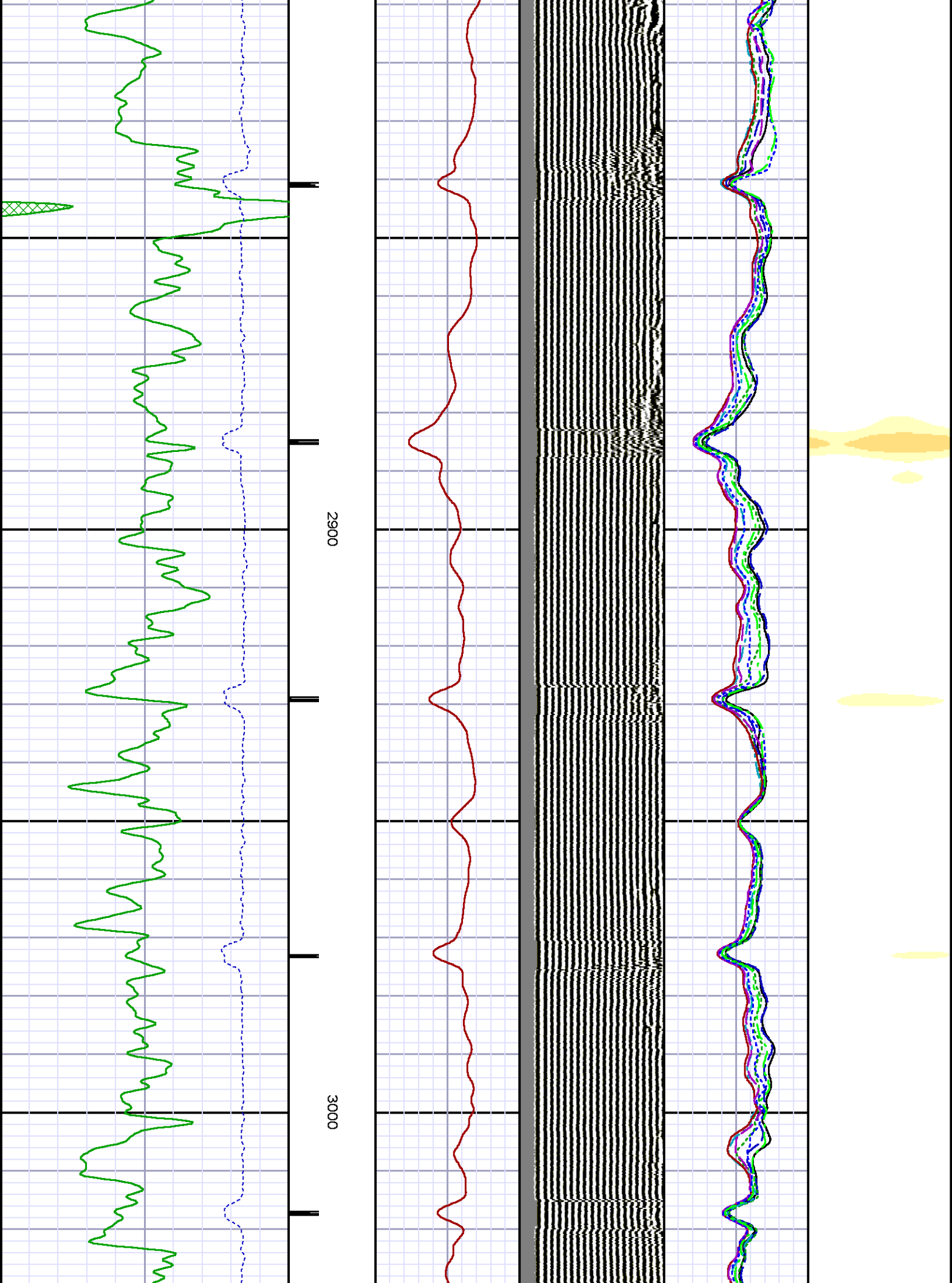


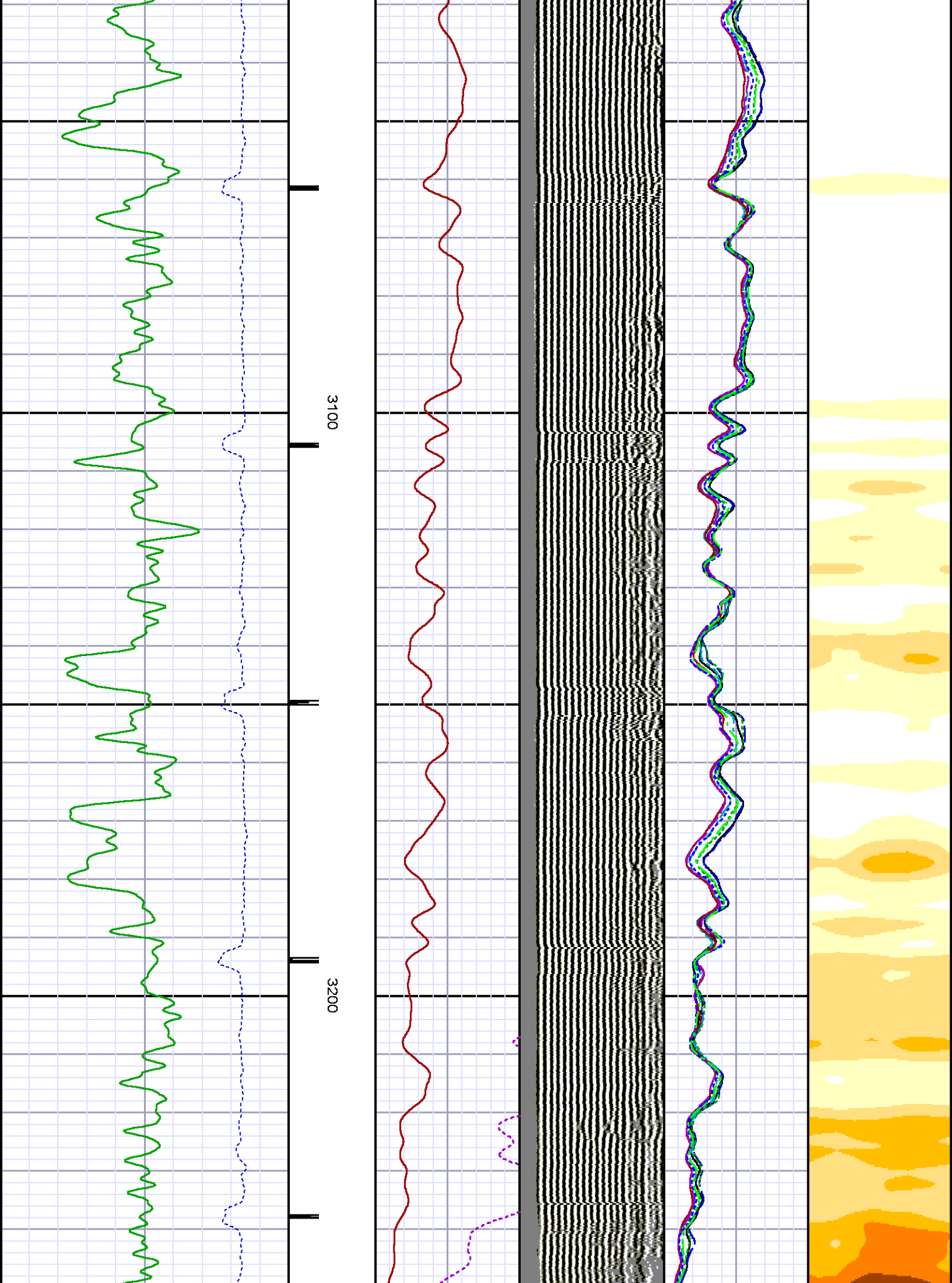


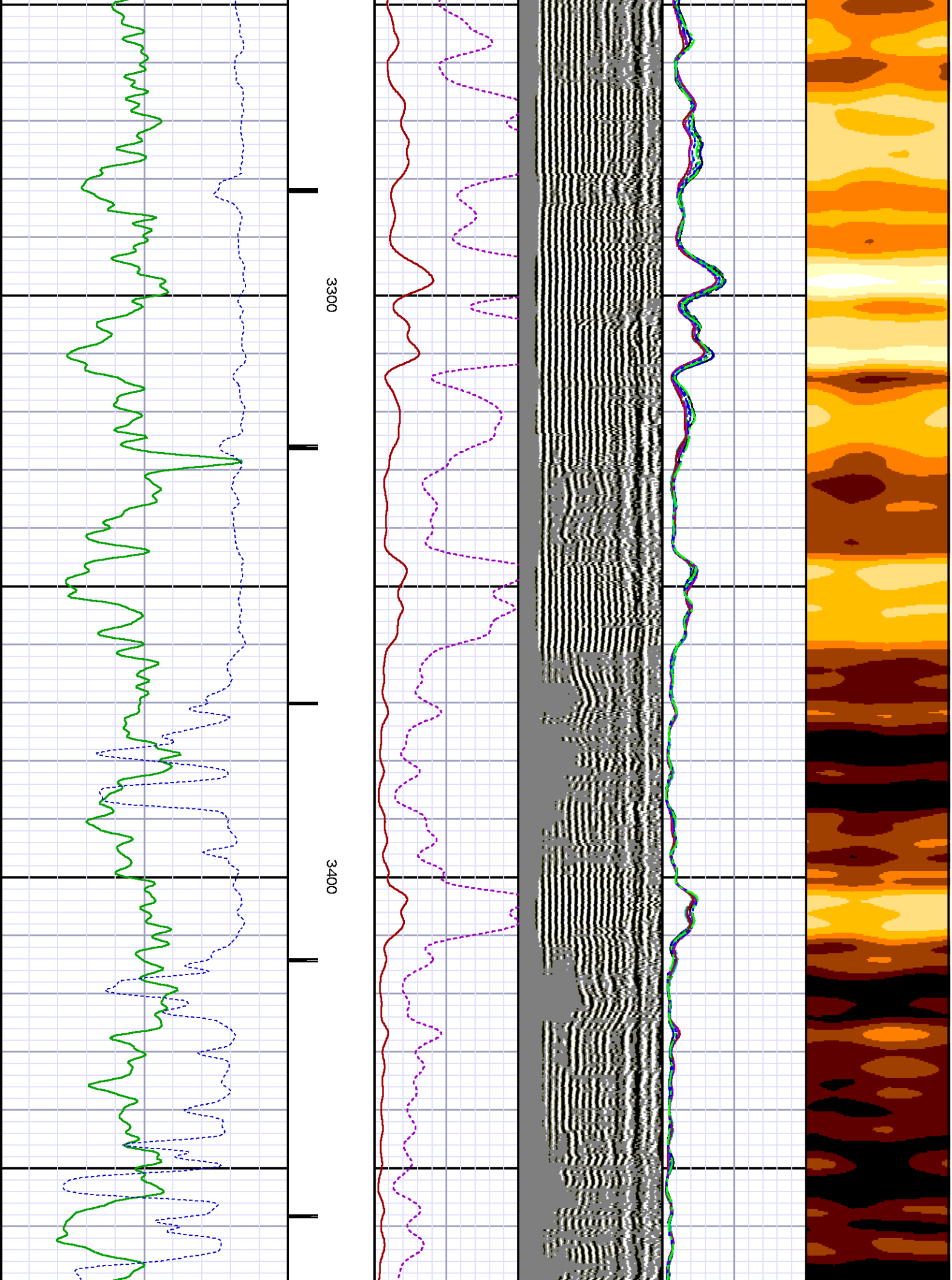


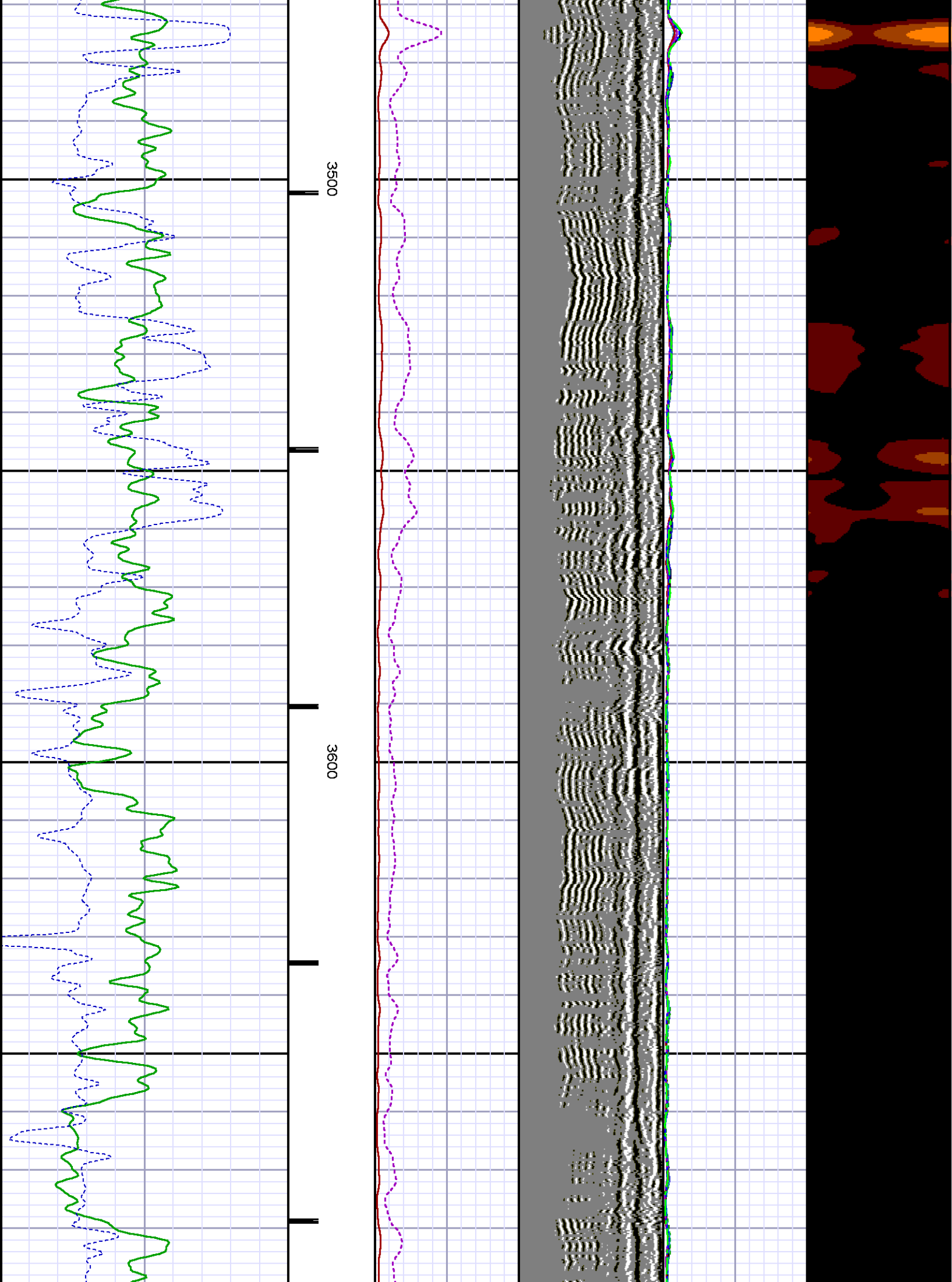


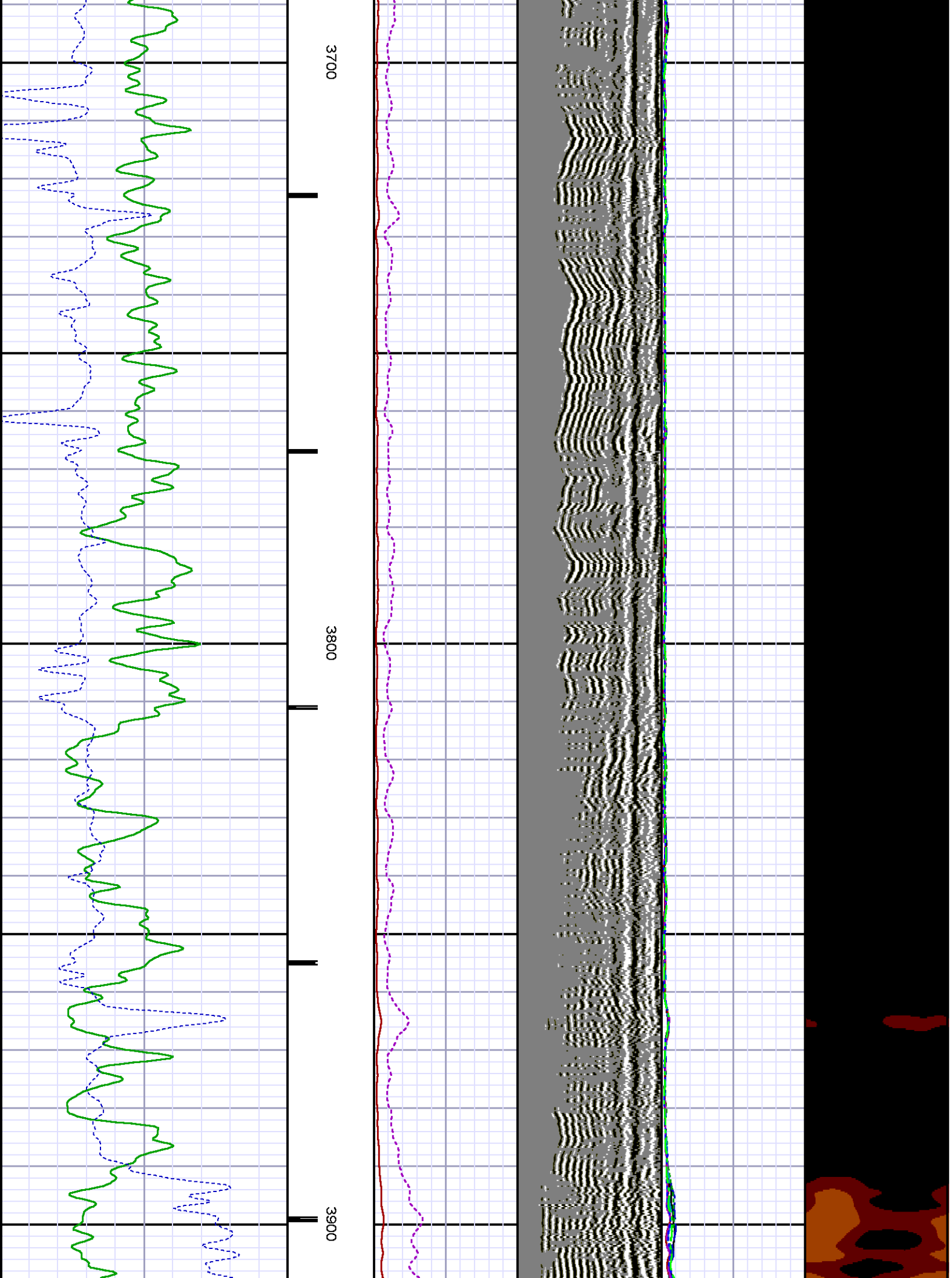


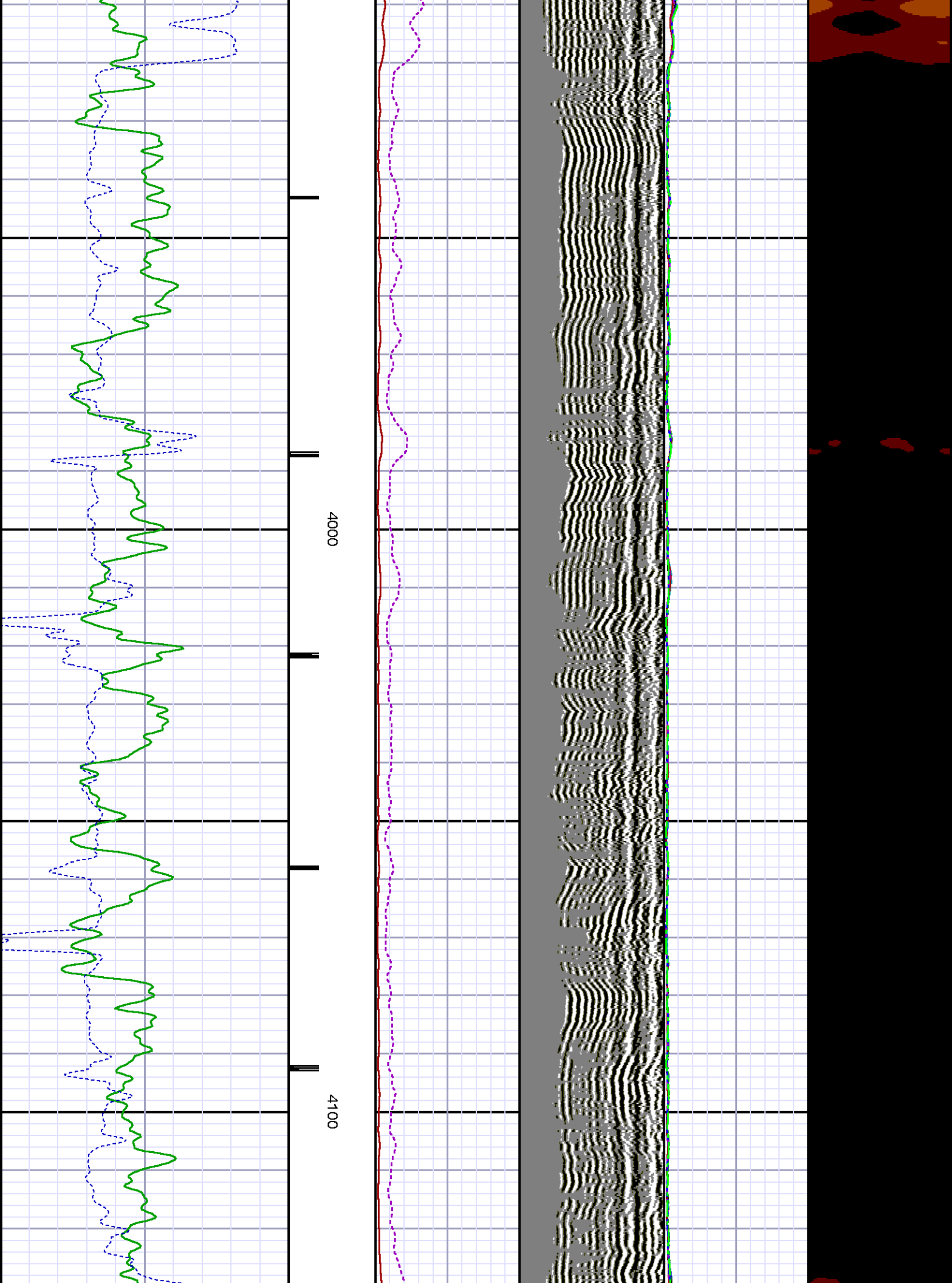


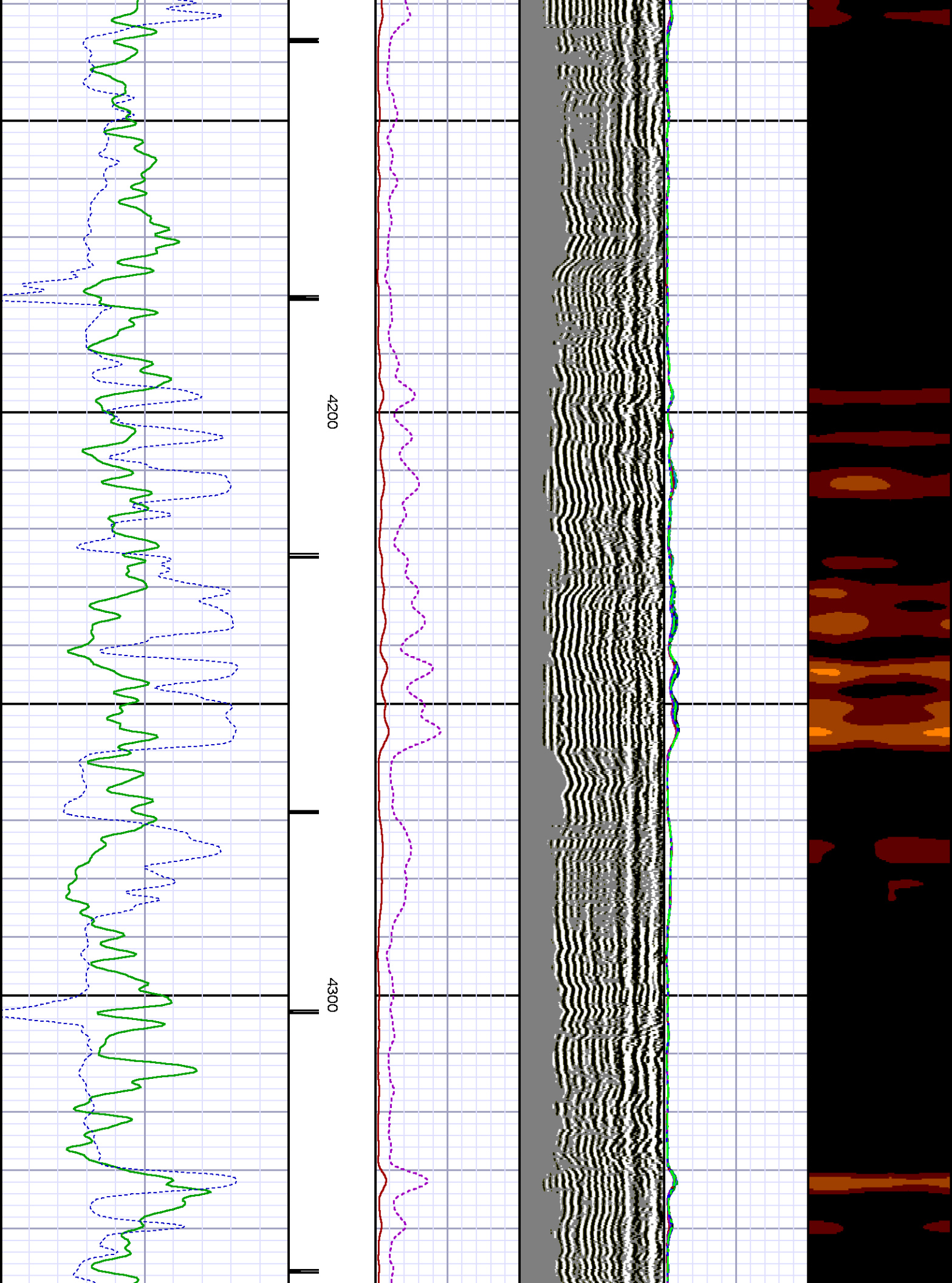


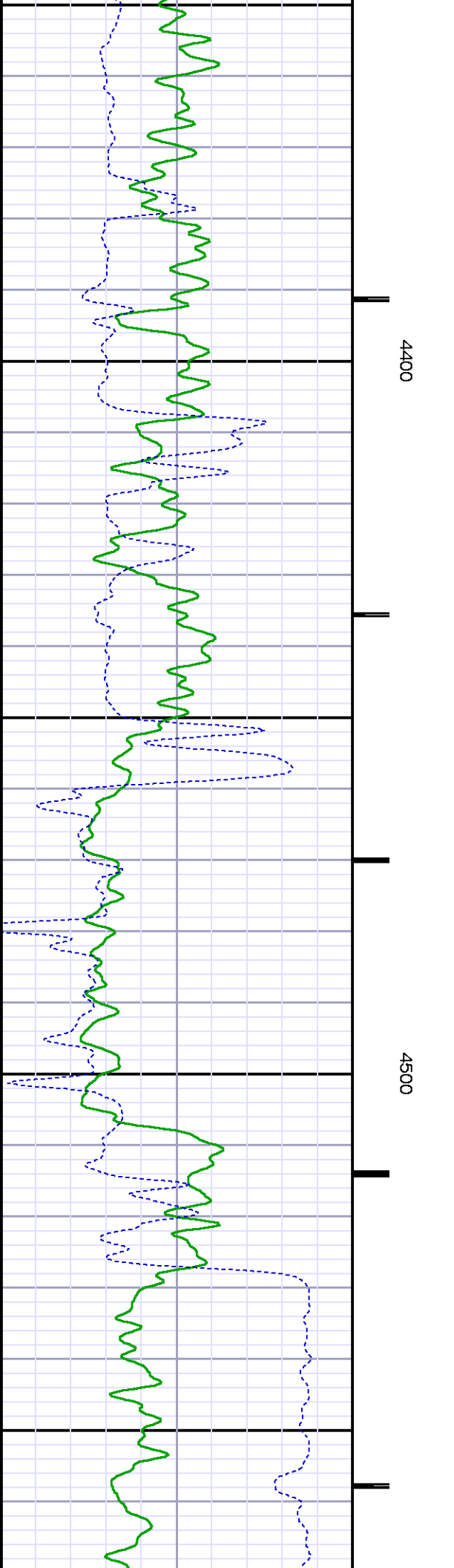
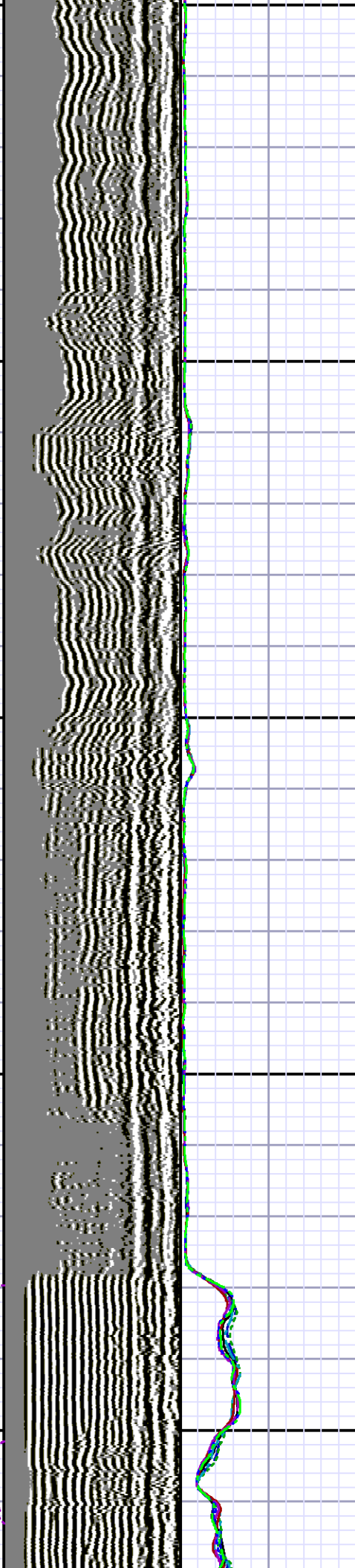
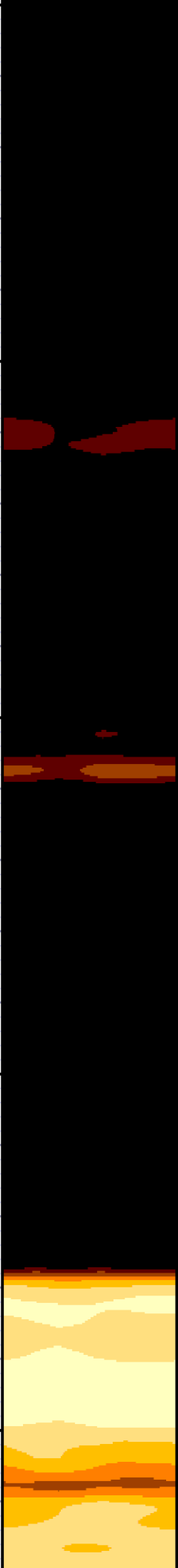


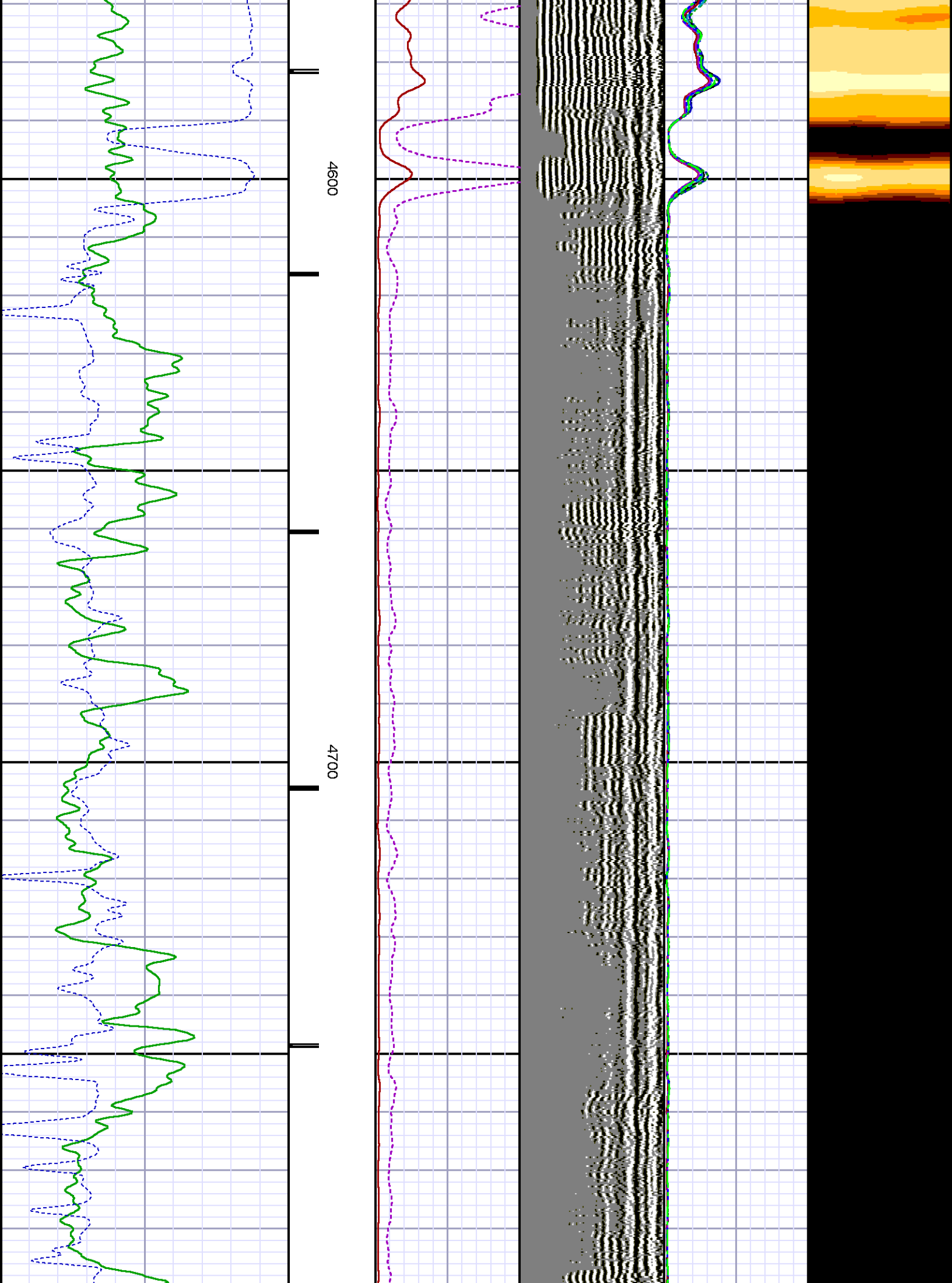


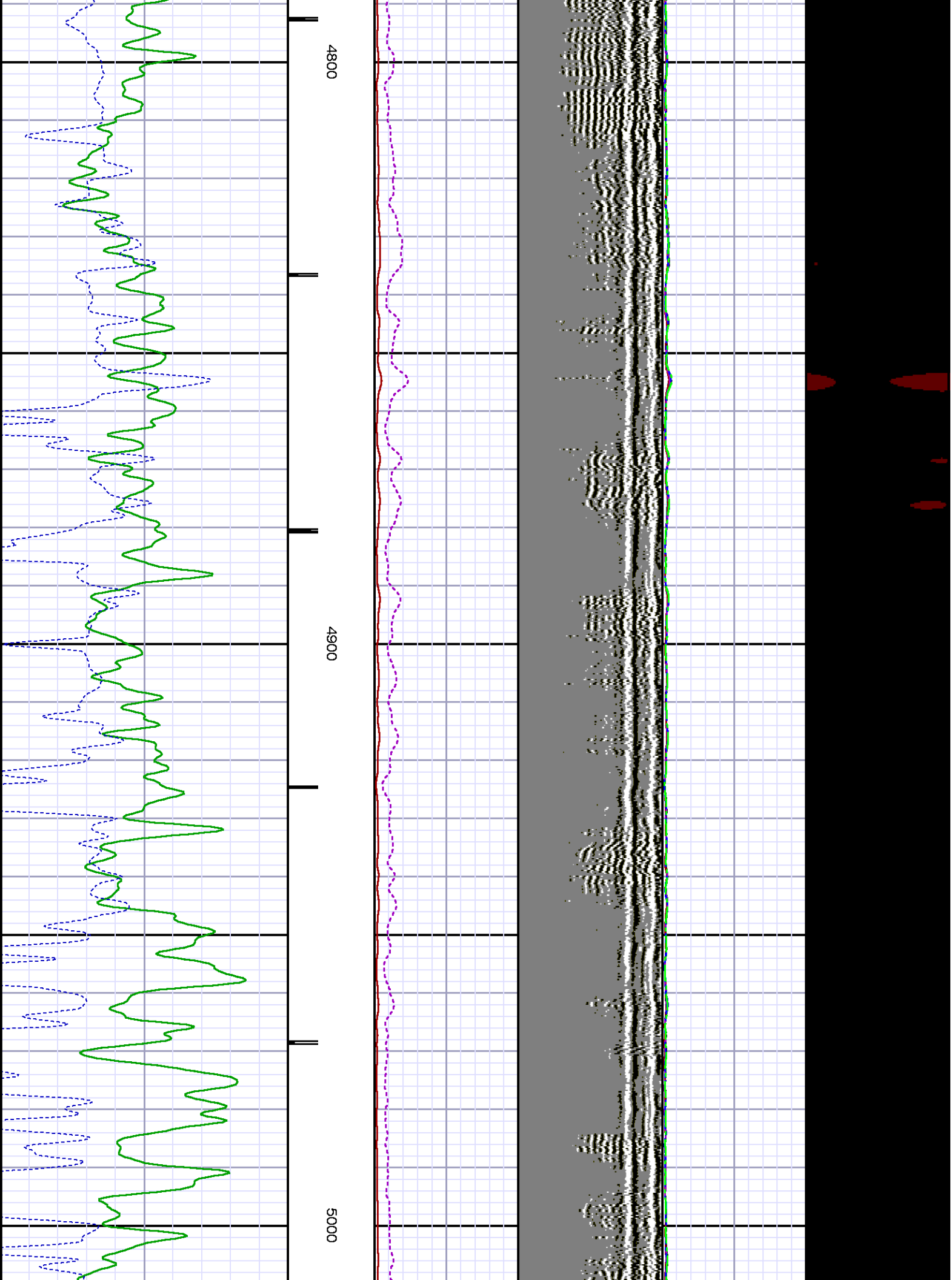


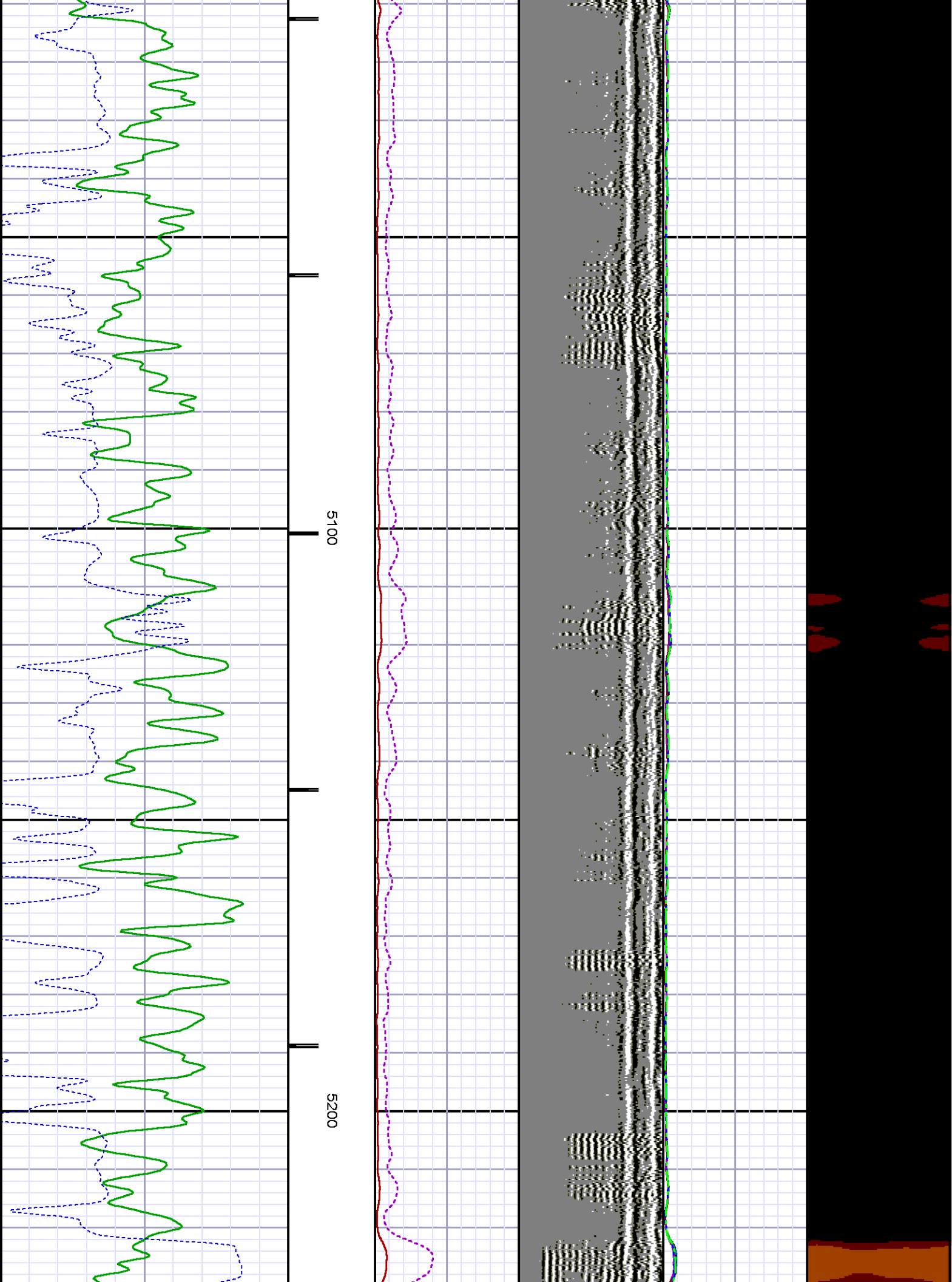


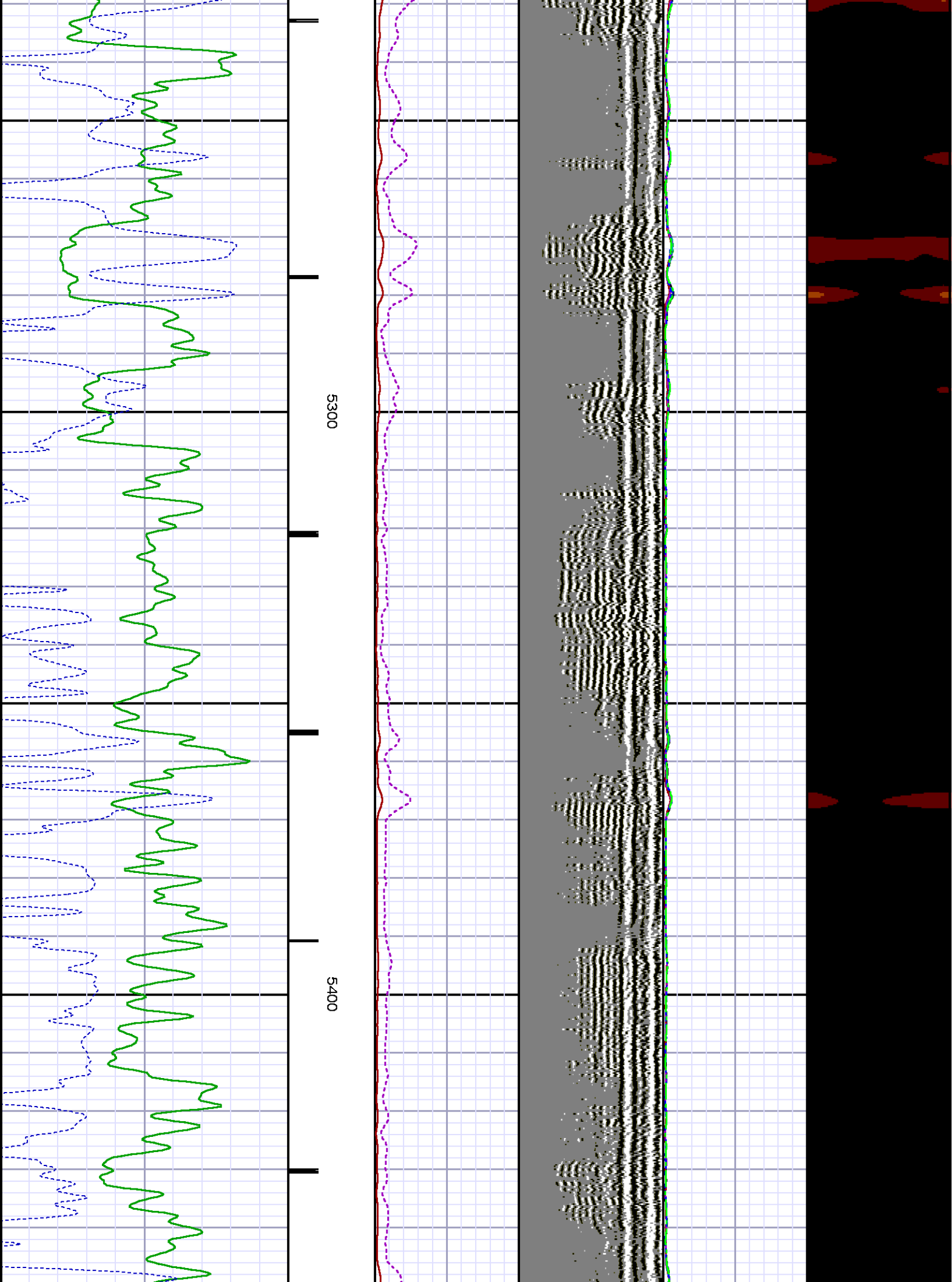


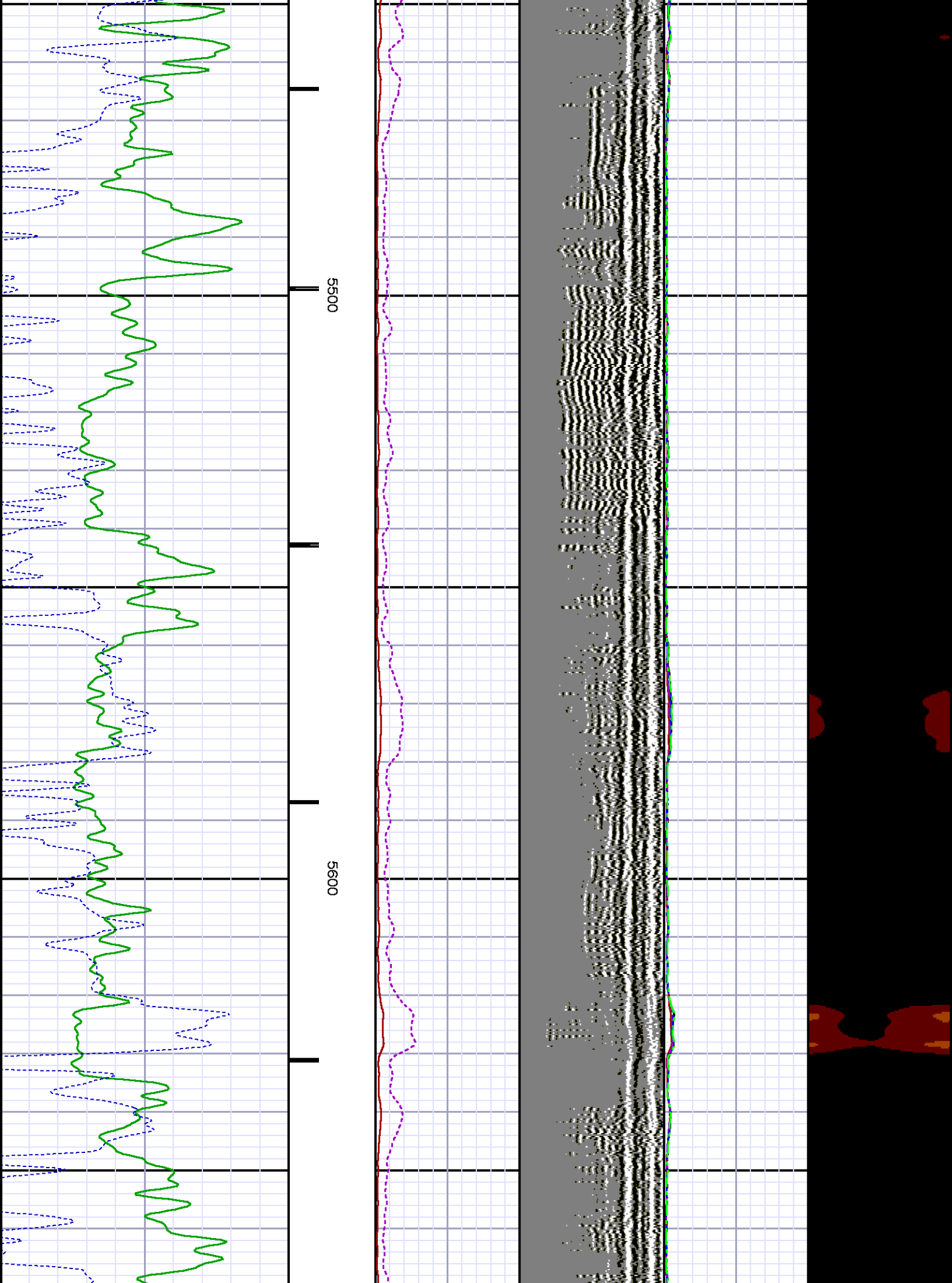


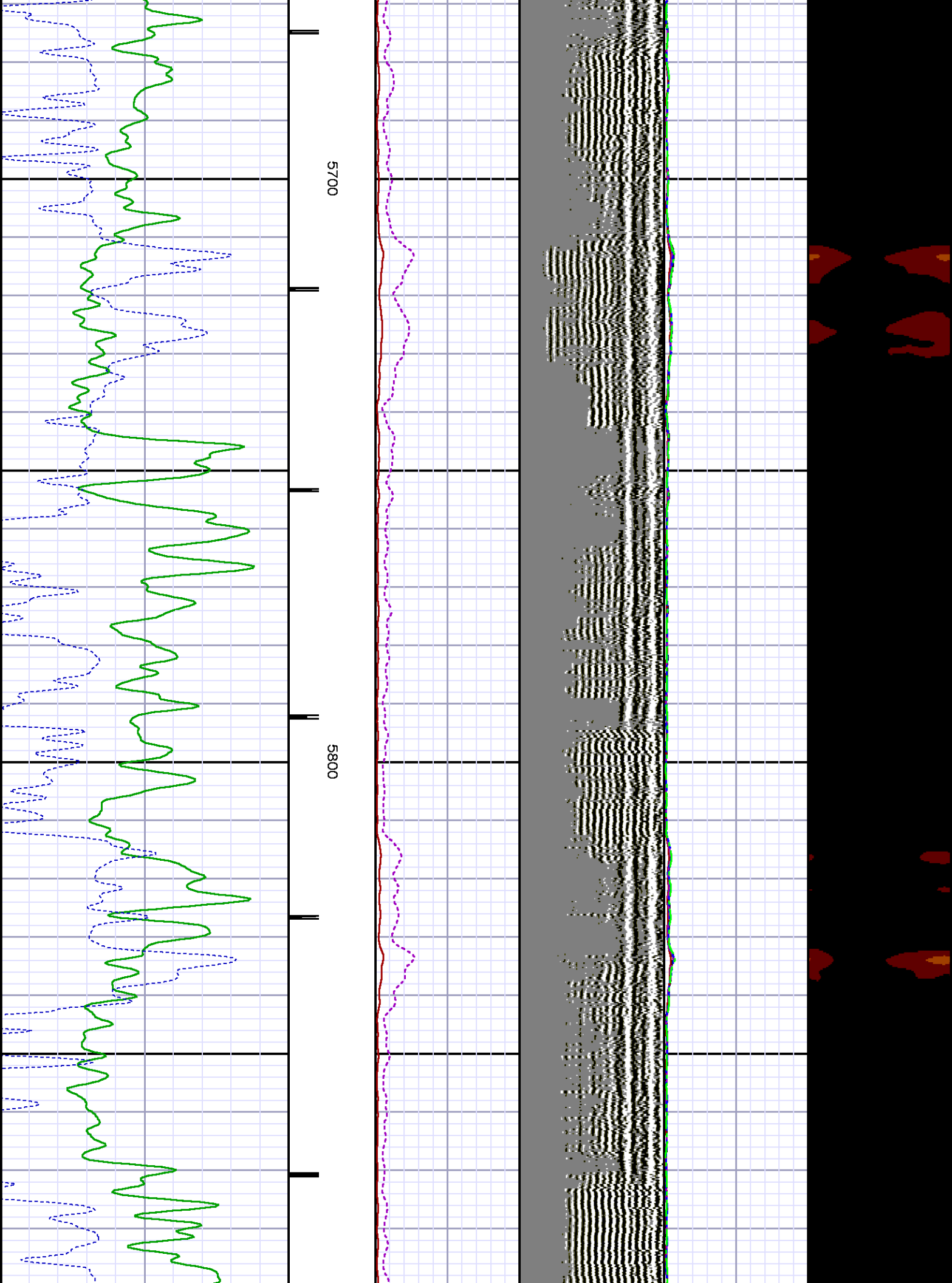


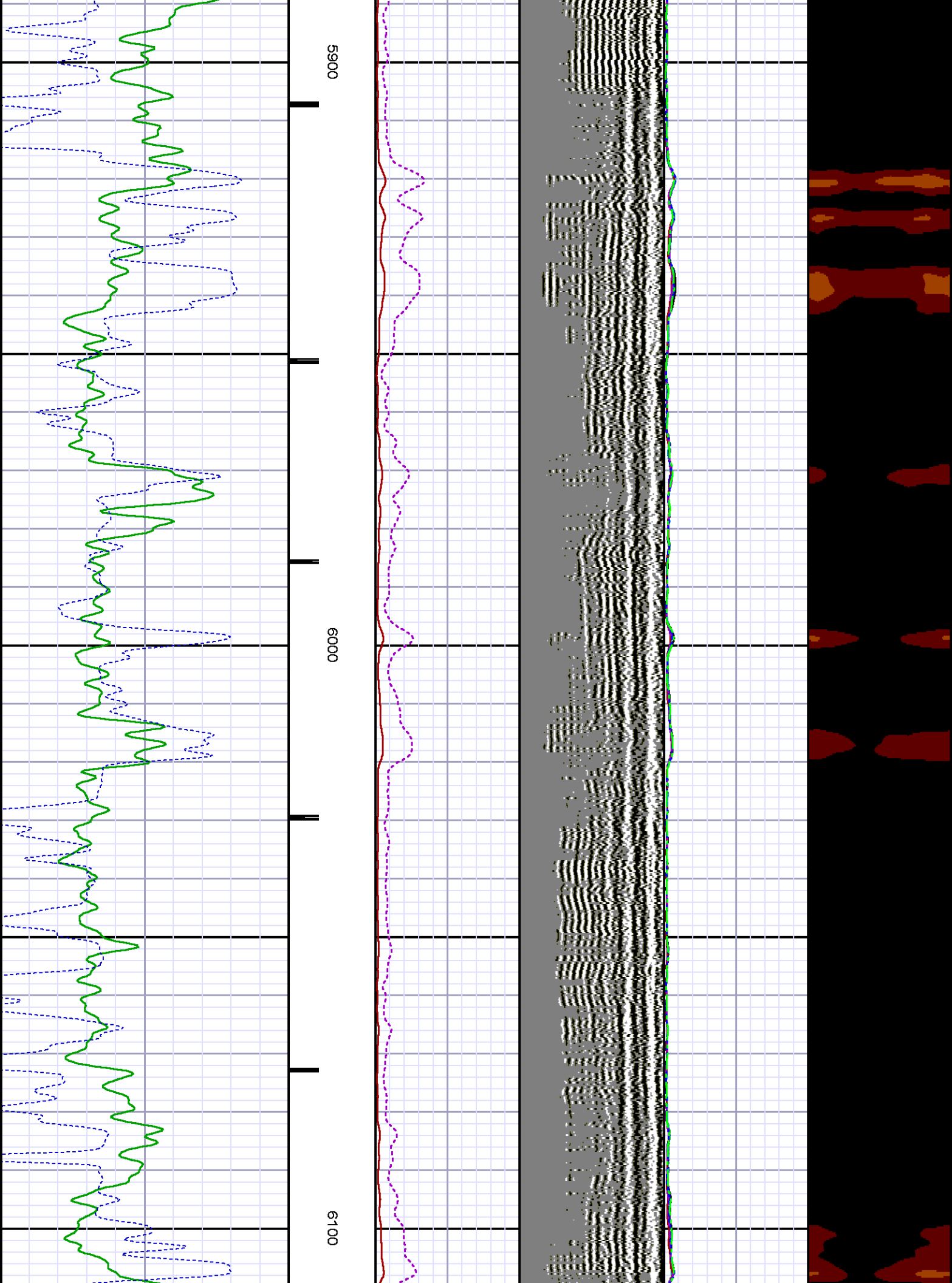


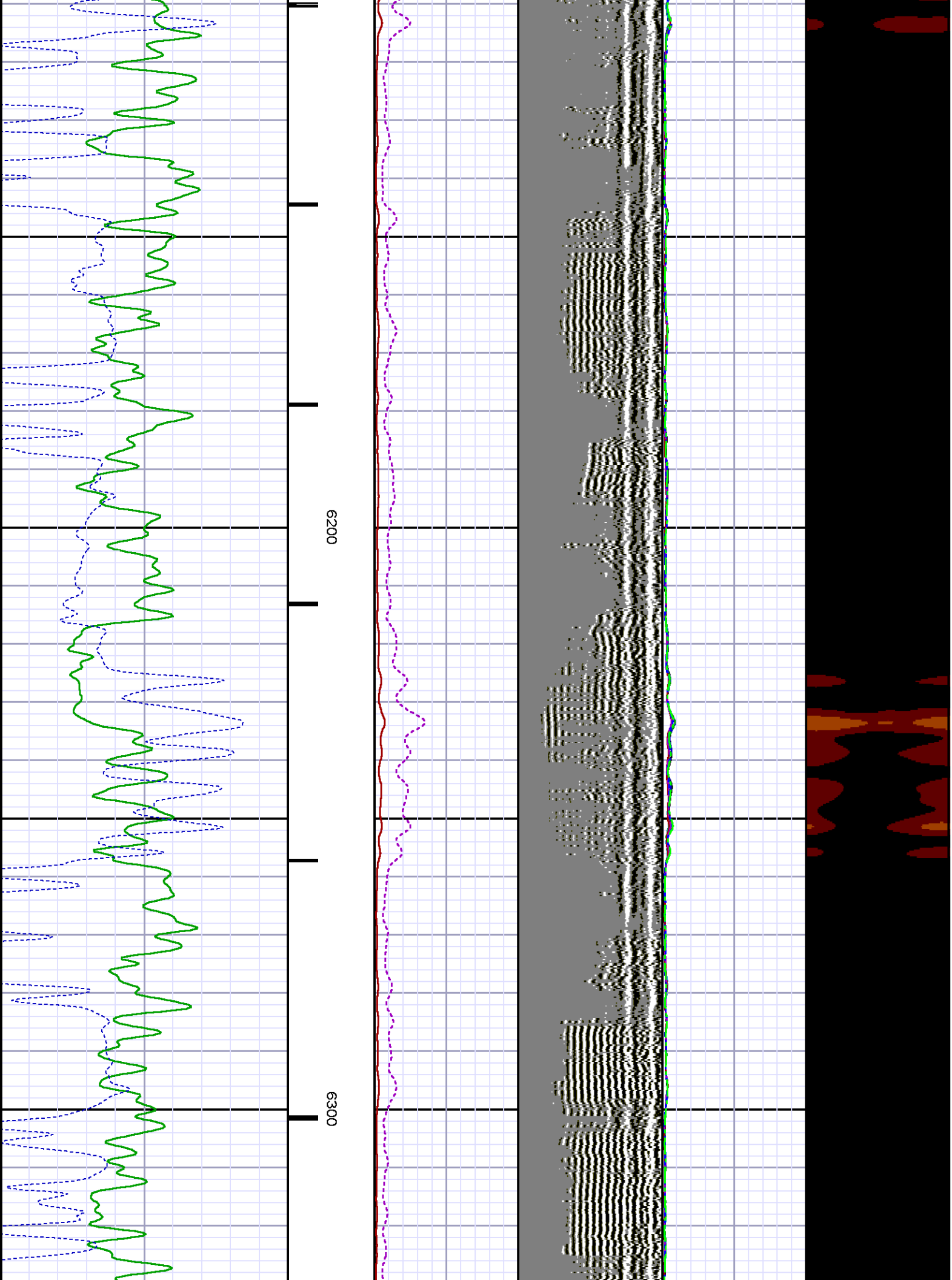


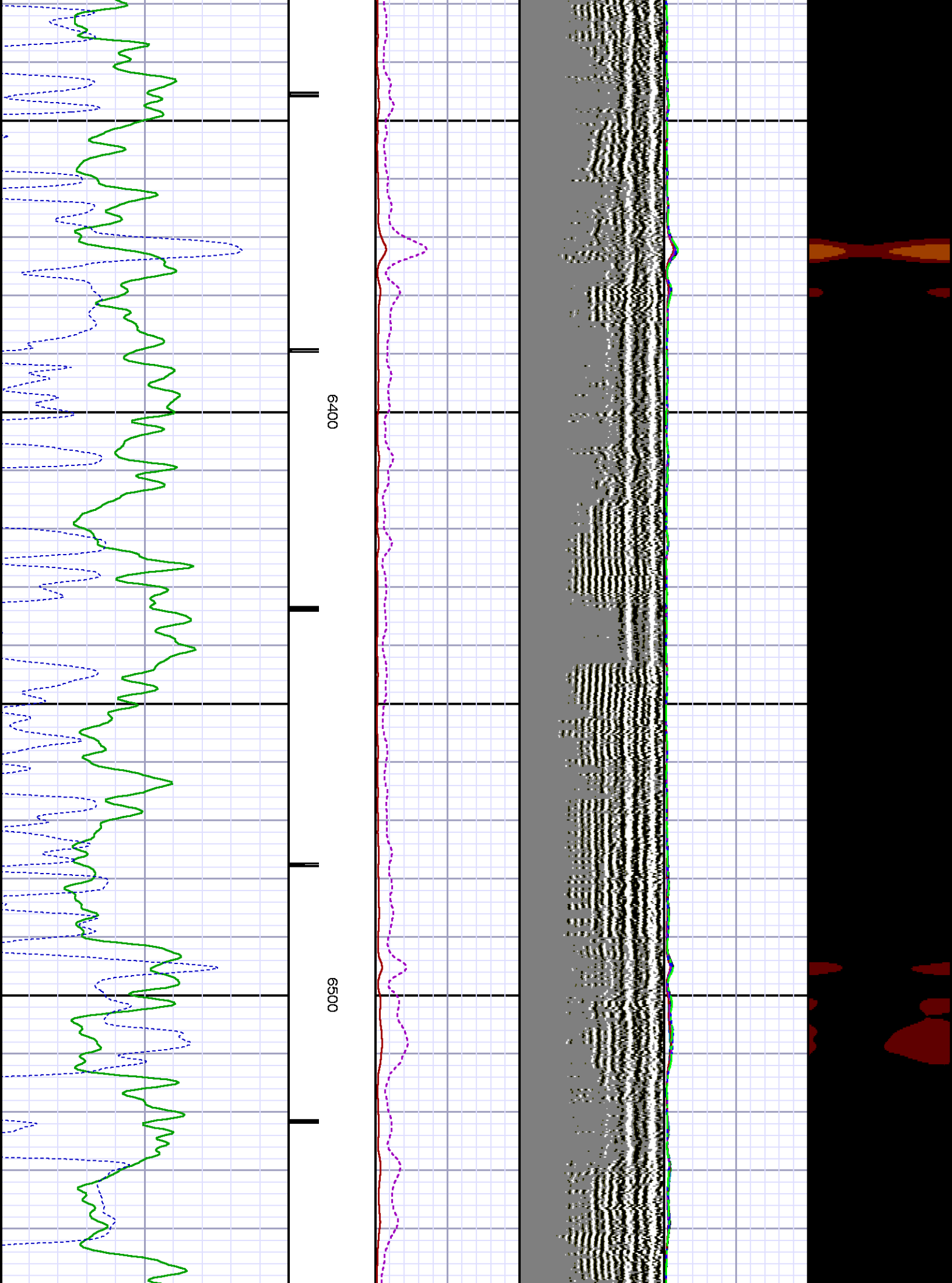


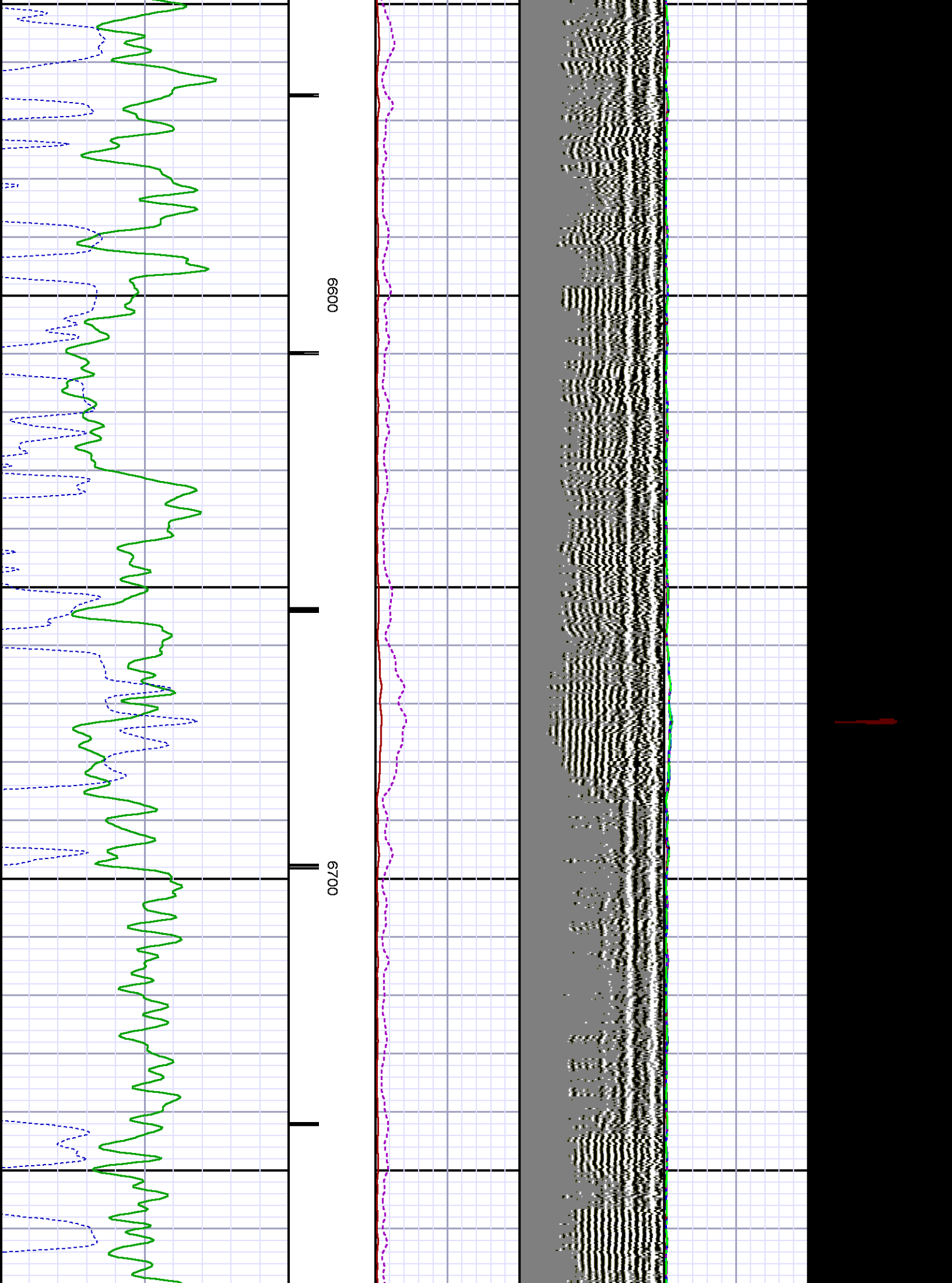


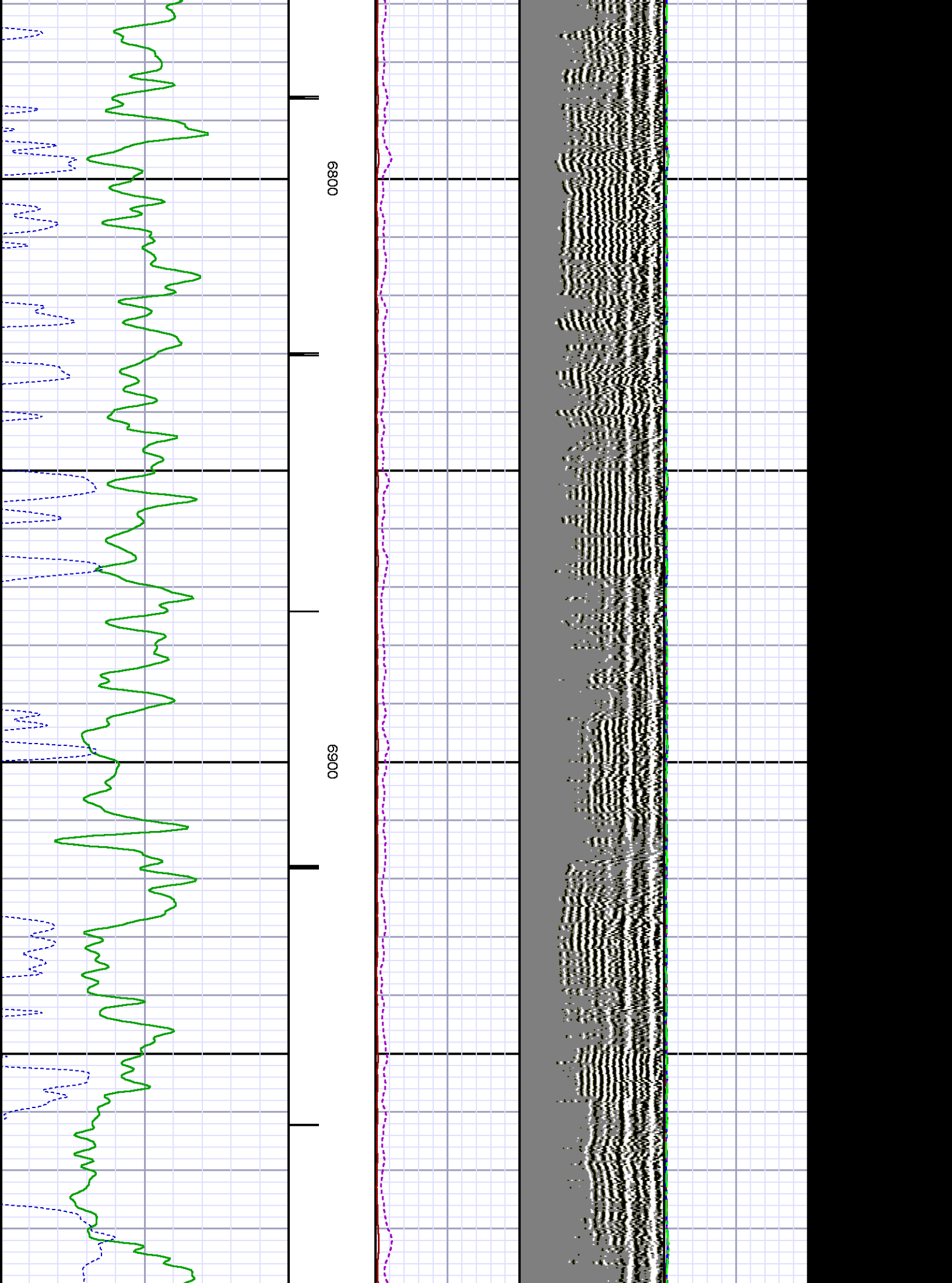


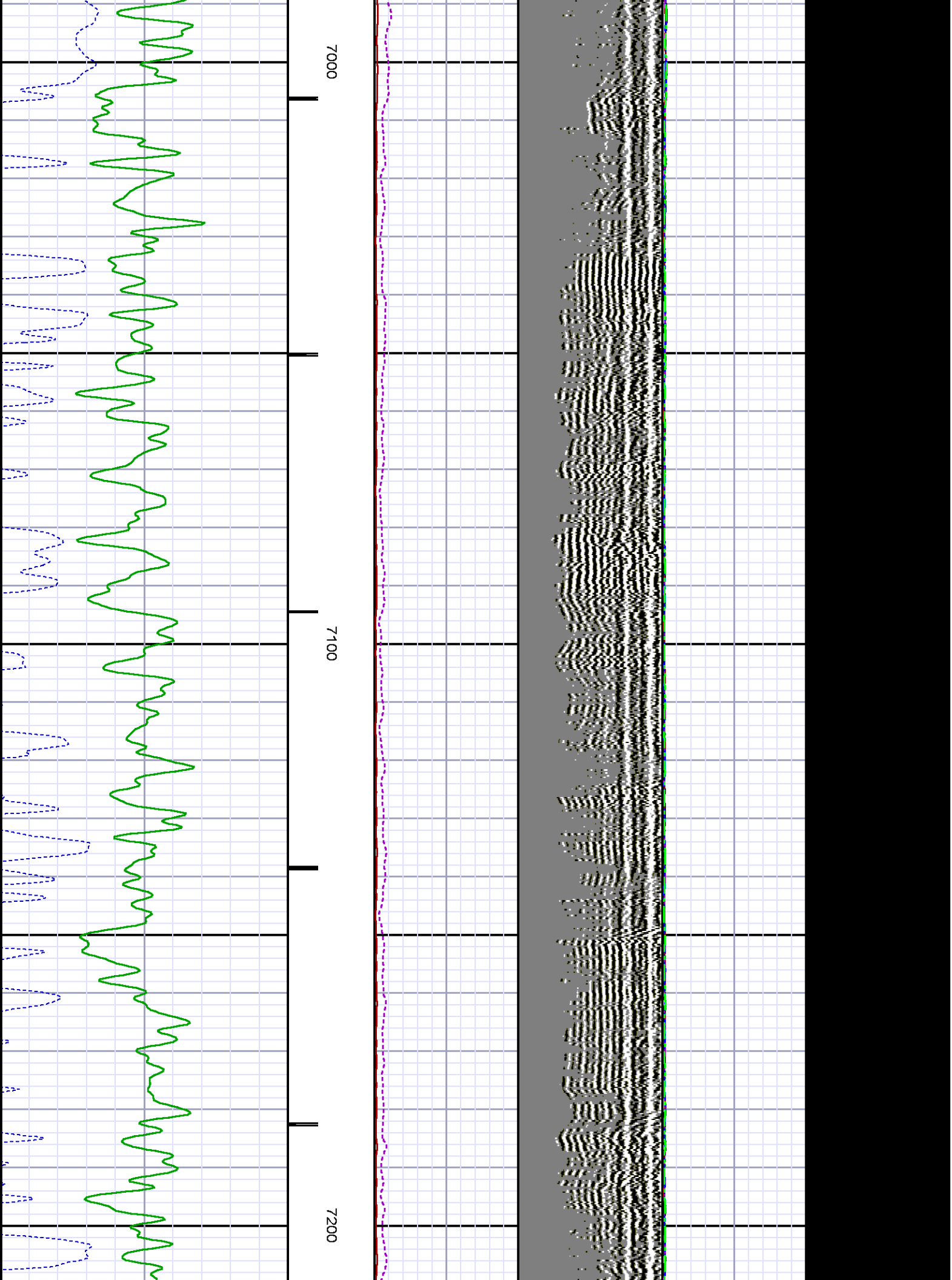


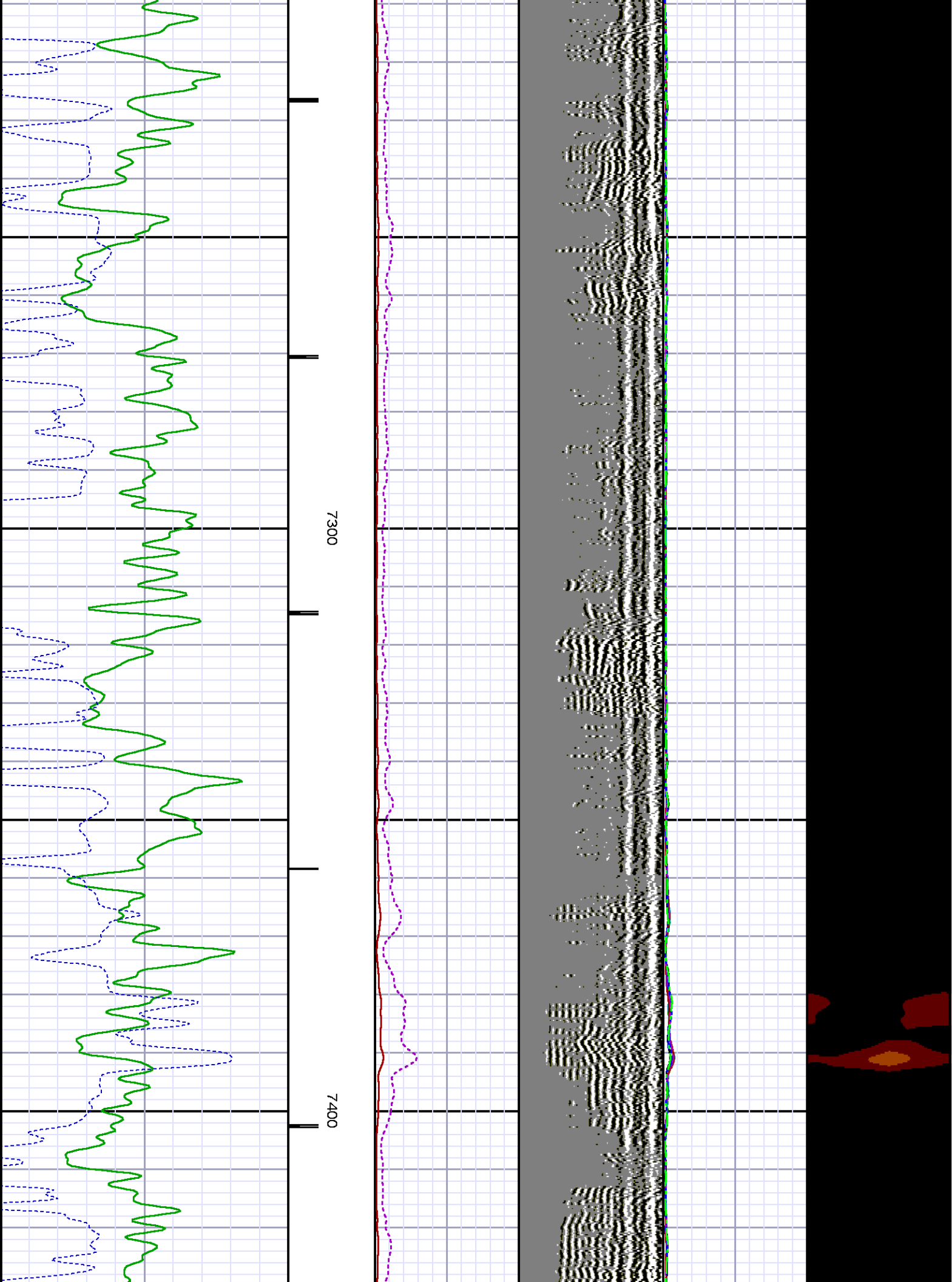


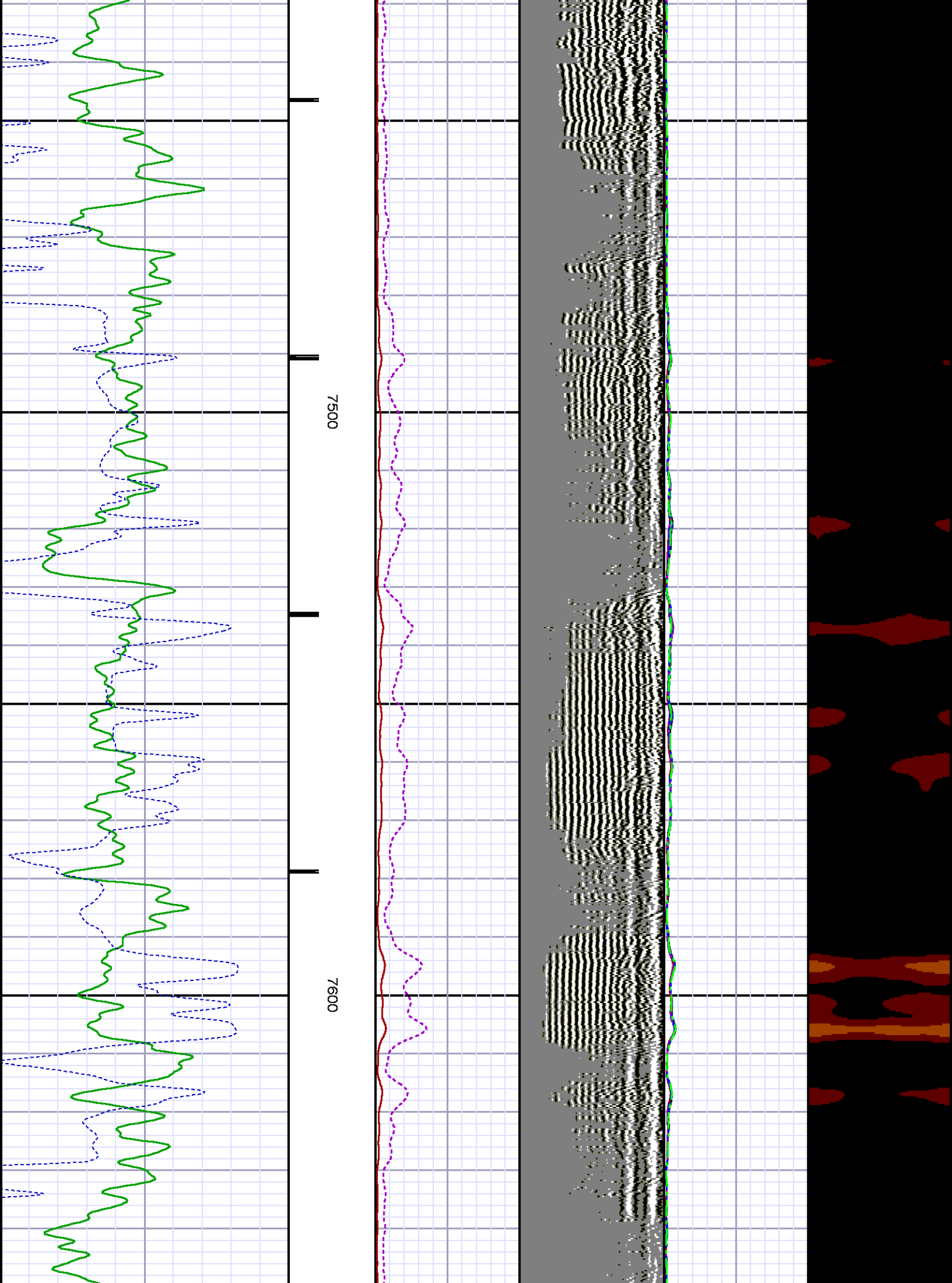


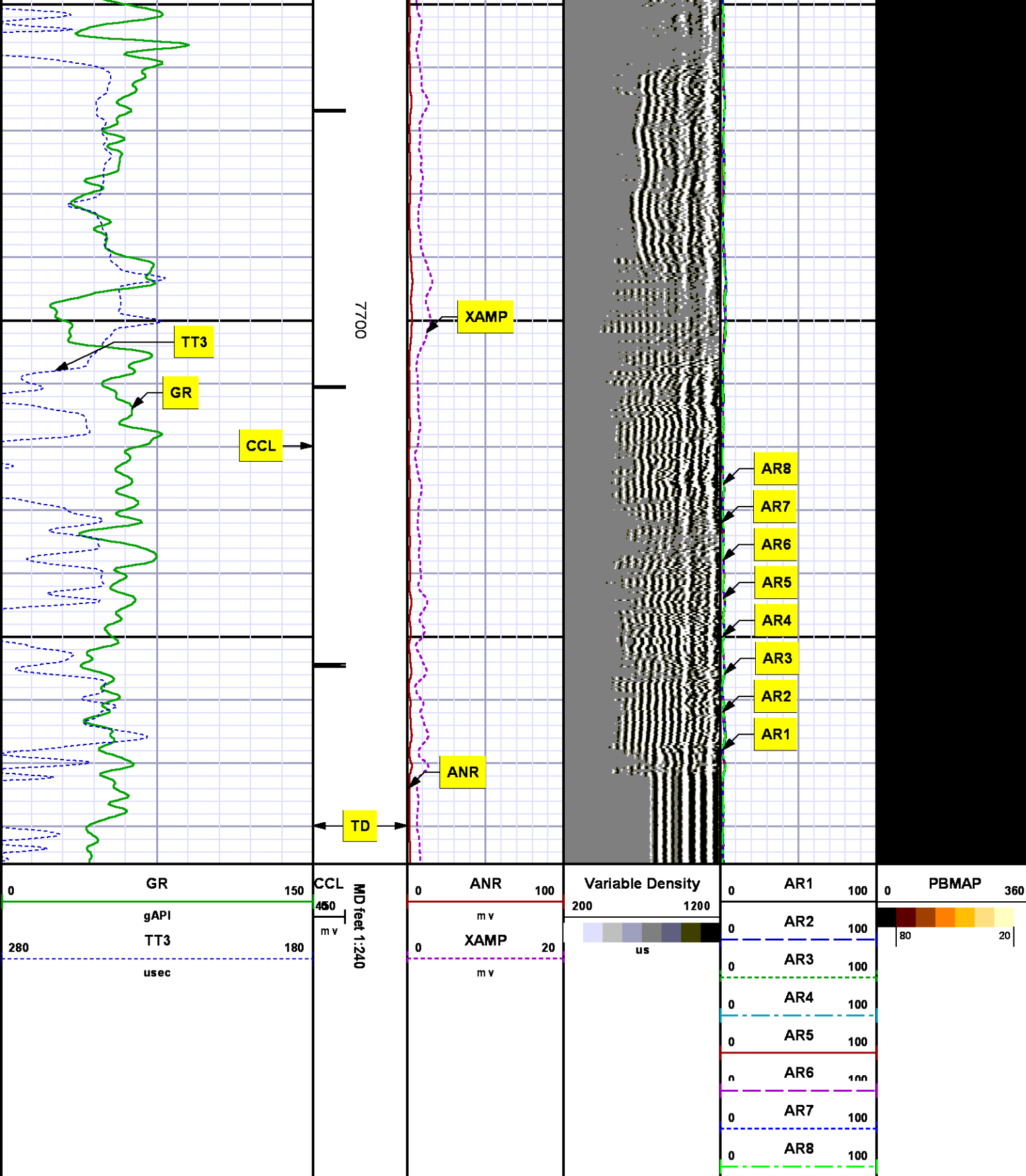












MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	7466.842	7800.030
RAL	Amp Gate Start Near	195.000	usec	7466.842	7800.030
RAL	Amp Gate Start Radial	195.000	usec	7466.842	7800.030
RAL	Amp Gate Width Far	25.000	usec	7466.842	7800.030
RAL	Amp Gate Width Near	25.000	usec	7466.842	7800.030
RAL	Amp Gate Width Radial	25.000	usec	7466.842	7800.030
RAL	casing od	4.500	inches	7466.842	7800.030
RAL	casing wt	11.600	lbm/ft	7466.842	7800.030
RAL	FB Start Far	291.900	usec	7466.842	7800.030
RAL	FB Start Near	180.000	usec	7466.842	7800.030
RAL	FB Start Radial	180.000	usec	7466.842	7800.030
RAL	FB Thresh Far	10.000	mv	7466.842	7800.030
RAL	FB Thresh Near	4.000	mv	7466.842	7800.030
RAL	FB Thresh Radial	4.000	mv	7466.842	7800.030
RAL	Fluid Travel Time	200.000	usec/ft	7466.842	7799.967

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
		ACAL	ANR	AR1	AR2	AR3	AR4
1426XA	-11.000	AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
		AFAR	SIG	TT5			
1426XA	-10.040						
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

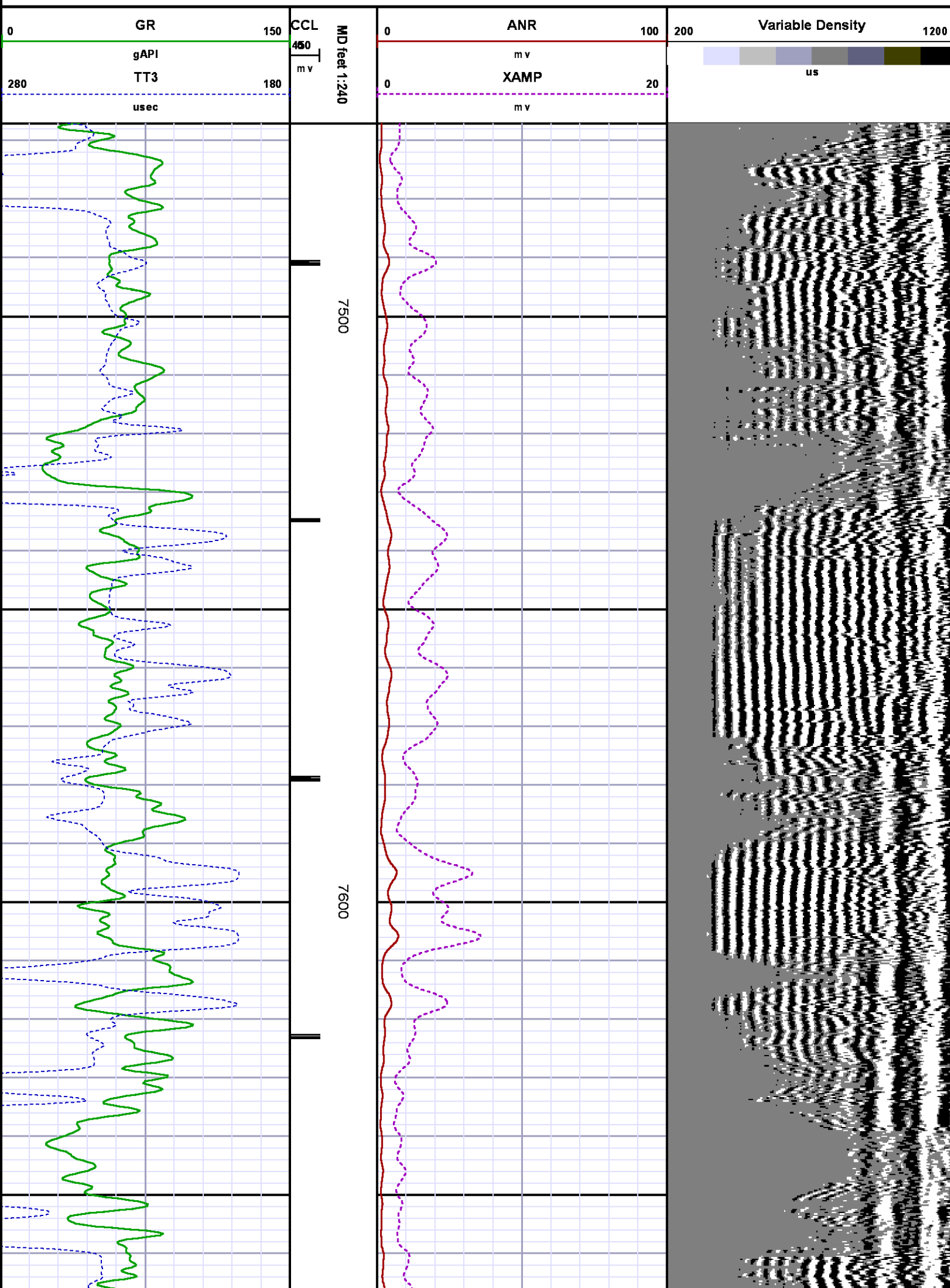
Well : GOLDSBOROUGH PA 22-11

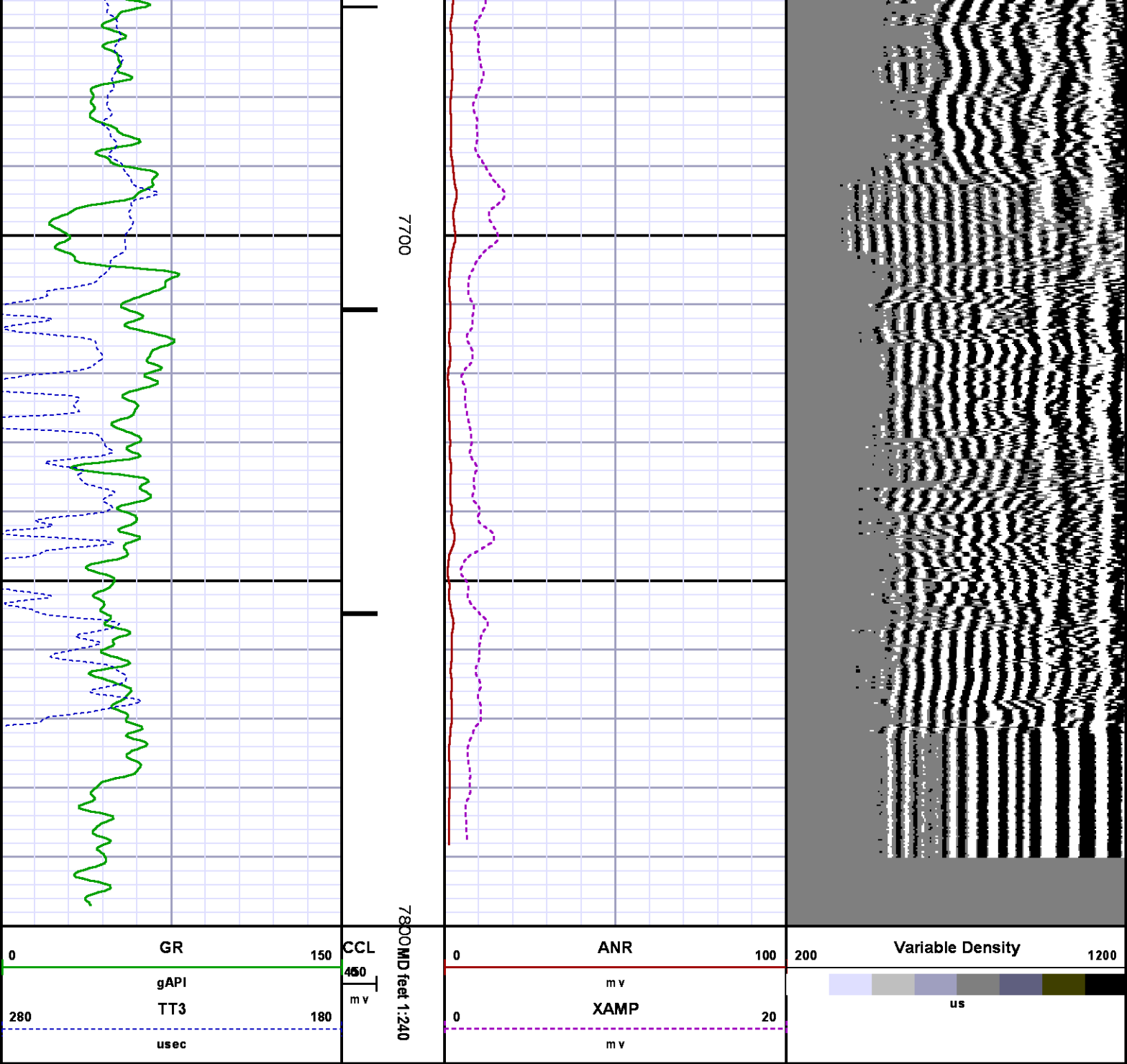
File Name : d:\well\data\wpx energy\pa 22-11\22ral\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7467.03 - 7800.03 feet UP

Created : 6/13/2013 6:47:14 PM





CALIBRATION SUMMARY

RALSHP

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jun 13 15:24:19 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: J13

Tool Delay [usec] Tank OD in Tank Wt lbm/ft Tank ID in

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="215"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-1.043"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
3 Ft. Receiver	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="152"/>	<input type="text" value="25"/>	<input type="text" value="0.048"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
5 Ft. Receiver	<input type="text" value="324"/>	<input type="text" value="323"/>	<input type="text" value="30"/>	<input type="text" value="219"/>	<input type="text" value="25"/>	<input type="text" value="0.152"/>	<input type="text" value="150.00"/>	<input type="text" value="0.20"/>
Radial #1	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="0.242"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #2	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="0.132"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #3	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.311"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #4	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.140"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #5	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.105"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #6	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.012"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #7	<input type="text" value="215"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.433"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>
Radial #8	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="141"/>	<input type="text" value="25"/>	<input type="text" value="-0.239"/>	<input type="text" value="100.00"/>	<input type="text" value="0.18"/>

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106J13_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jun 13 15:28:26 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: J13

Tool Delay [usec] Casing OD in Casing Wt lbm/ft Casing ID in

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="-0.177"/>	<input type="text" value="0.000"/>	<input type="text" value="1.00"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.487"/>			
5 Ft. Receiver	<input type="text" value="305"/>	<input type="text" value="25"/>	<input type="text" value="-0.183"/>			
Radial #1	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-1.644"/>			
Radial #2	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.846"/>			
Radial #3	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.656"/>			
Radial #4	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.905"/>			
Radial #5	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.579"/>			
Radial #6	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.583"/>			
Radial #7	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.549"/>			
Radial #8	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="-0.499"/>			

GAMMA RAY

Calibration File: C:\case\calver\GR\209J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 03 09:09:02 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	149.24	605.69	0.405	60.49	245.49	185.00

Verification File: C:\case\calver\GR\209J1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Mon Jun 03 09:10:36 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	150.93	617.24	0.405	61.17	250.17	189.00

TOOL DIAGRAM

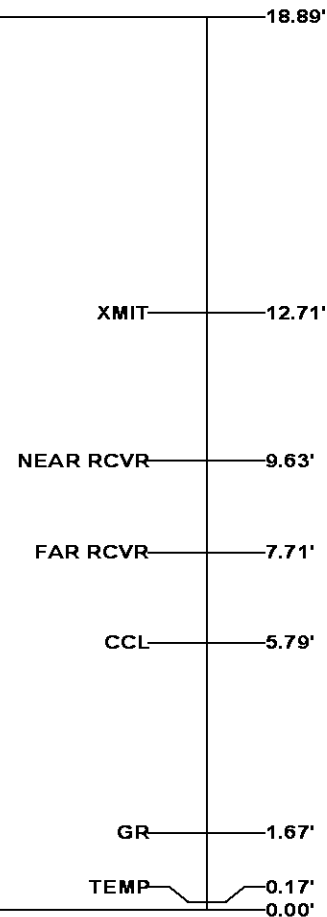
OTA SHORT CABLE HEAD

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"

<div> BAKER HUGHES</div> <div>Baker Atlas</div> <div></div>	Company	WPX ENERGY			File No:	
	Well	GOLDSBOROUGH PA 22-11				CH073169
	Field	PARACHUTE				API No:
	County	GARFIELD	State	COLORADO		05045218180000
	Location				Elevations	
SHL: 2403' FNL, 2075' FWL				KB 6296 ft	PA 22-11 PAD	
BHL: 1470' FNL, 2059' FWL				DF	11 7S 95W	
SEC 11 TWP 7S RGE 95W				GL 6274 ft	CYCLONE 17	