



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH071656	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 511-11 PAPRCHUTE GARFIELD	State COLORADO
API No: 05045218170000			
PA 22-11 PAD 11 7S 9SW CYCLONE 17	Location SHL: 2402' FNL, 2037' FWL BHL: 1103' FNL, 639' FWL	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	GL Elevation 6274 ft KB 26 ft Above P. D. KELLY BUSHING	Elevations KB 6300 ft DF GL 6274 ft	

Date	03/MAY/13		
Run	ONE		
Service Order	624390		
Depth Driller	8064 ft		
Depth Logger	8050 ft		
Bottom Logged Interval	8040 ft		
Top Logged Interval	26 ft		
Time Started	1700		
Time Finished	2030		
Operator Rig Time	3.6 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.	Location	GRAND JCT	
Recorded By	RENEAU/SMITH		
Witnessed By	FRANK MOORE		

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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	0 ft	1006 ft
8.75 in	1006 ft	8064 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	32 lbm/ft		0 ft	1006 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	8064 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 12 feet.
Logged with zero PSI at wellhead.
BHT = 220°F
SJ = 4421'-4441'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10404539	CENT
1	1	GR/CCL	2459XA	10417457	CENT

PRIMARY PRESENTATION

0 PSI

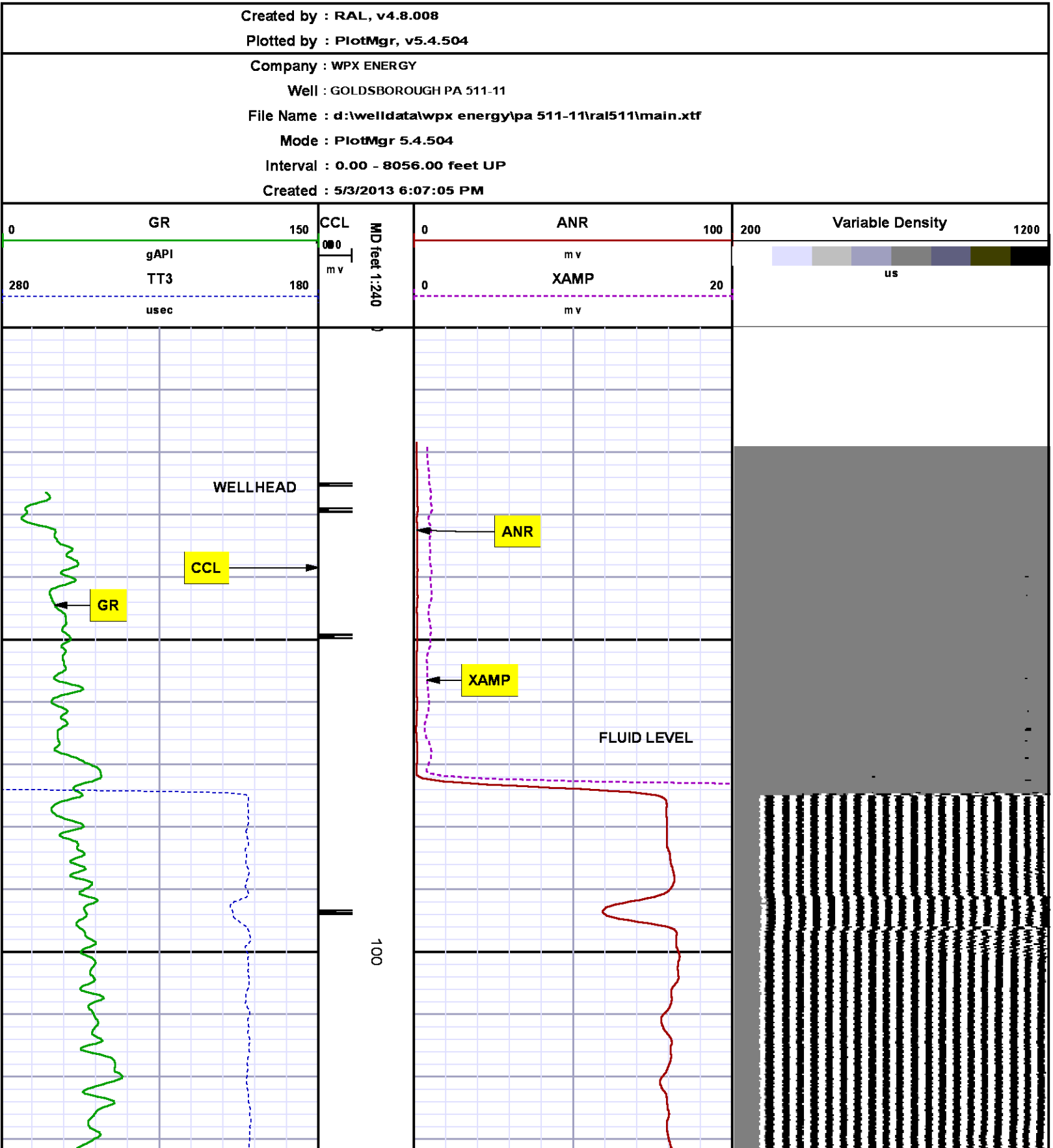
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	34.715	8067.000
RAL	Amp Gate Start Near	195.000	usec	34.715	8067.000
RAL	Amp Gate Start Radial	195.000	usec	34.715	8067.000
RAL	Amp Gate Width Far	25.000	usec	34.715	8067.000
RAL	Amp Gate Width Near	25.000	usec	34.715	8067.000
RAL	Amp Gate Width Radial	25.000	usec	34.715	8067.000
RAL	casing od	4.500	inches	34.715	8067.000
RAL	casing wt	11.600	lbm/ft	34.715	8067.000
RAL	FB Start Far	291.900	usec	34.715	8067.000
RAL	FB Start Near	180.000	usec	34.715	8067.000
RAL	FB Start Radial	180.000	usec	34.715	8067.000
RAL	FB Thresh Far	10.000	mv	34.715	8067.000
RAL	FB Thresh Near	4.000	mv	34.715	8067.000
RAL	FB Thresh Radial	4.000	mv	34.715	8067.000
RAL	Fluid Travel Time	200.000	usec/ft	34.715	8066.367

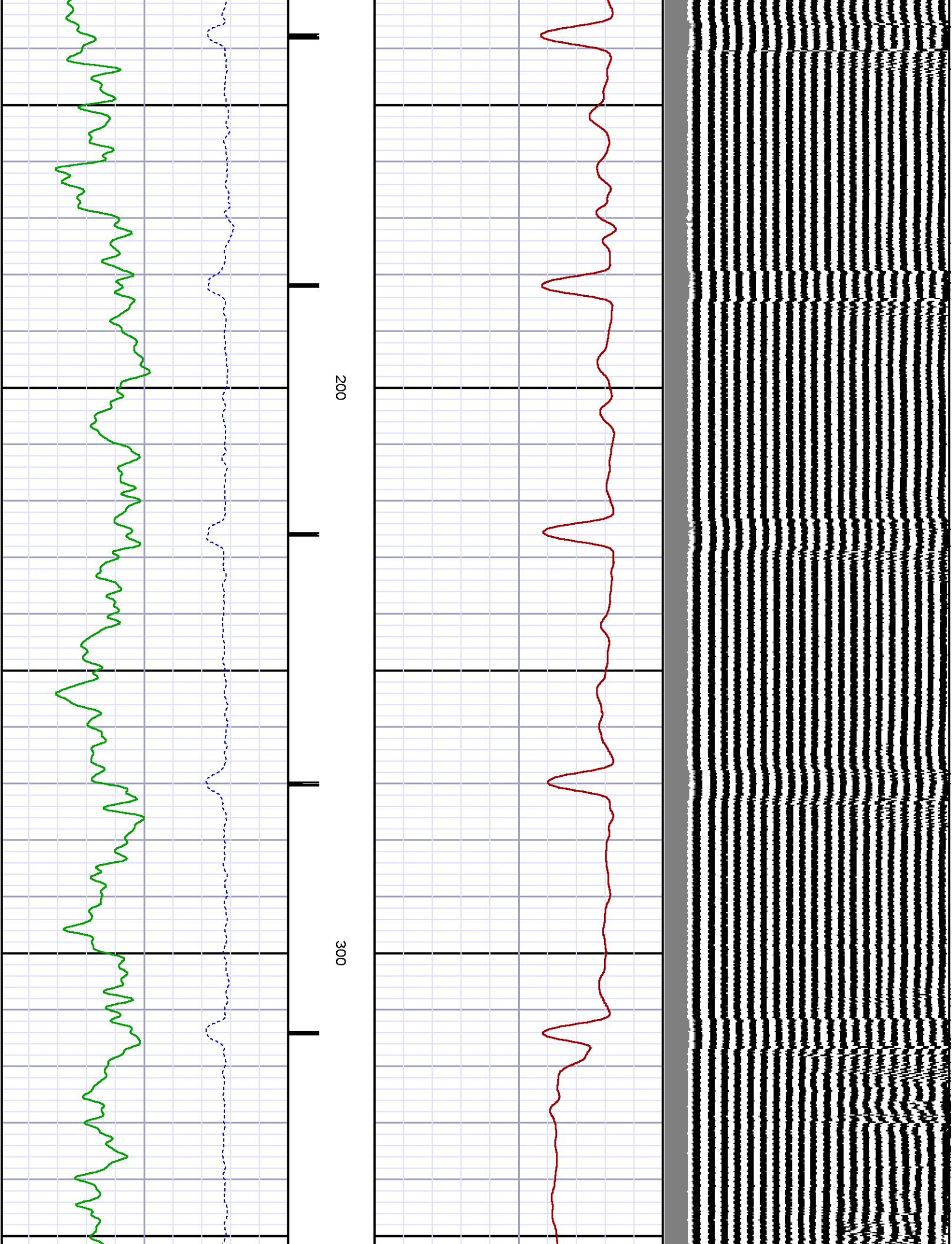
DEPTH OFFSETS

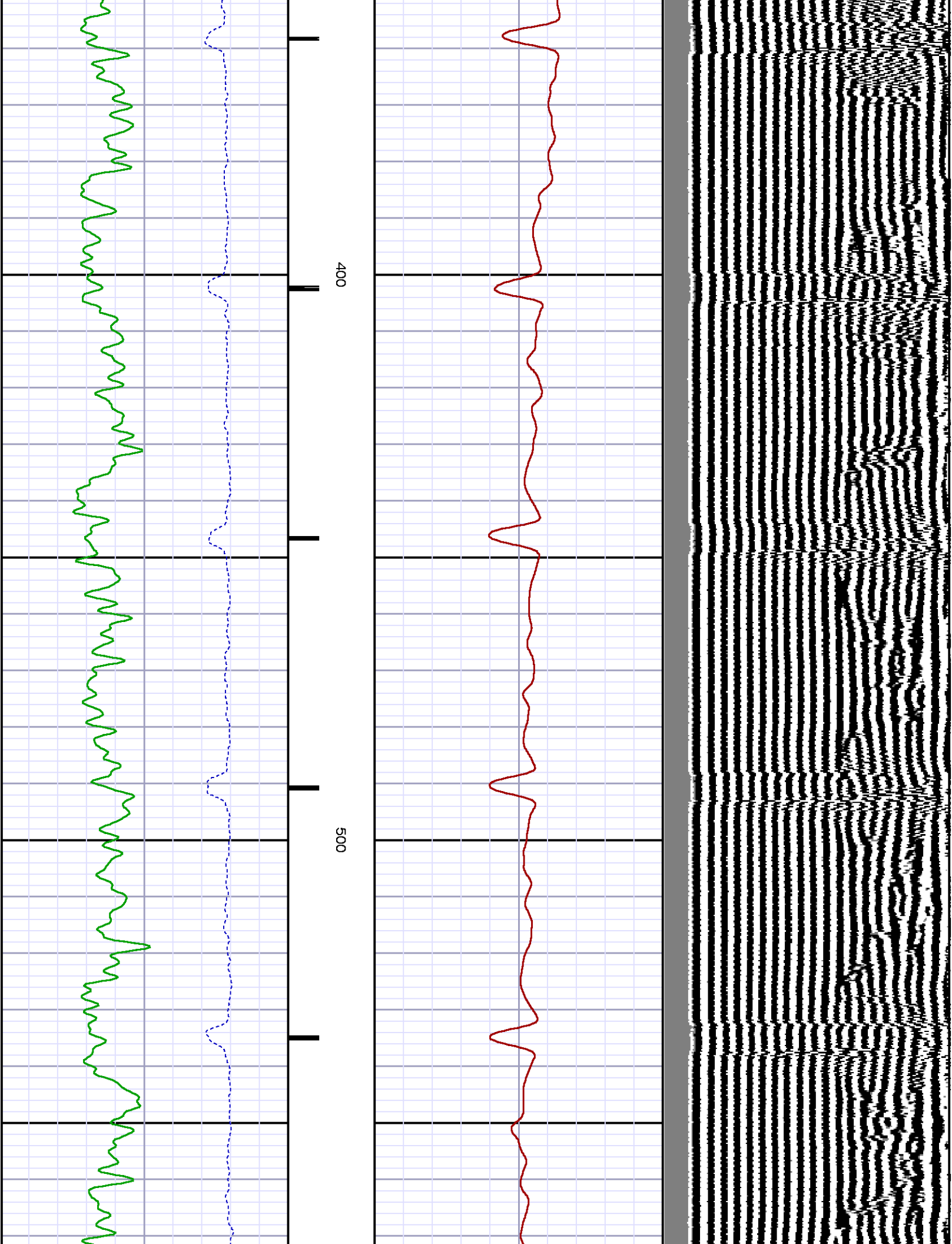
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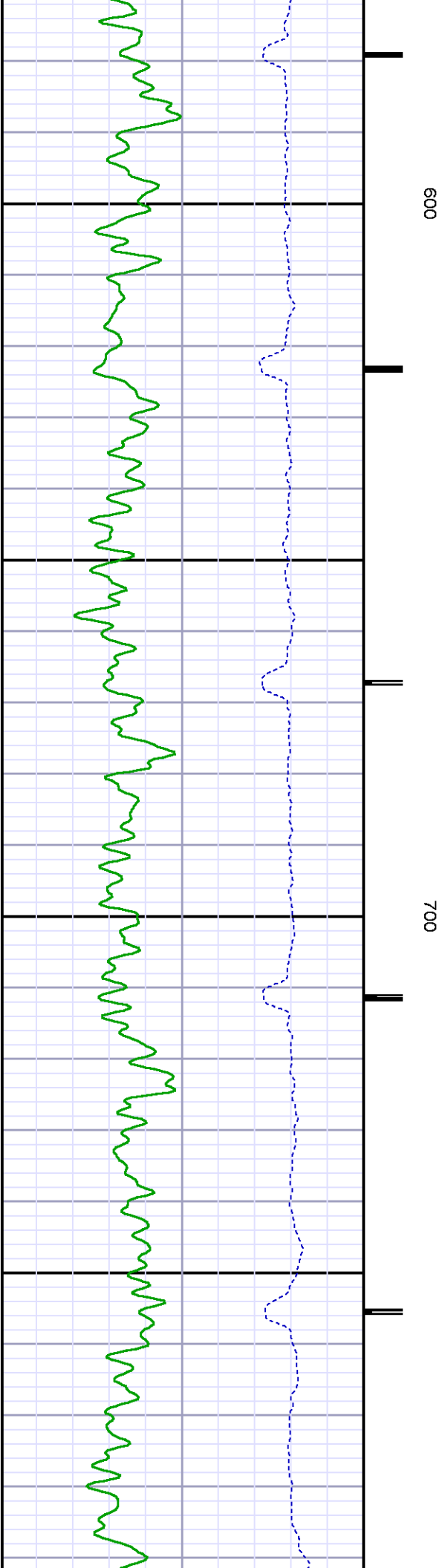
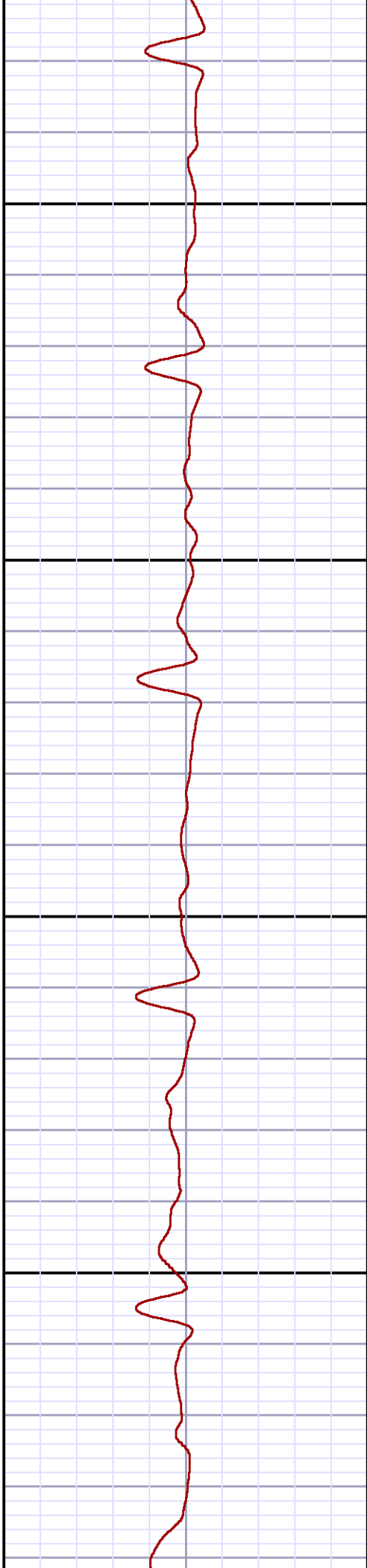
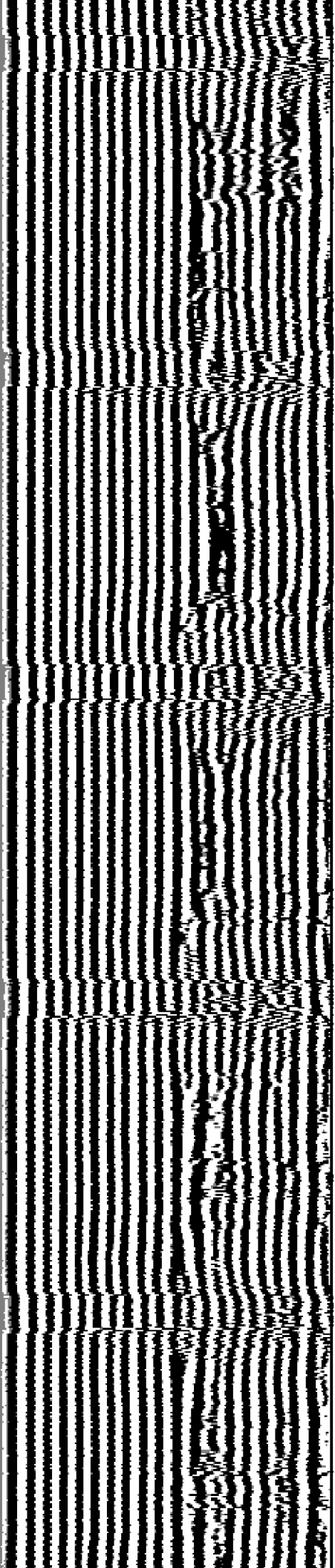
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		PRF1	PRF2	PRF3	PRF4	PRF5	PRF6

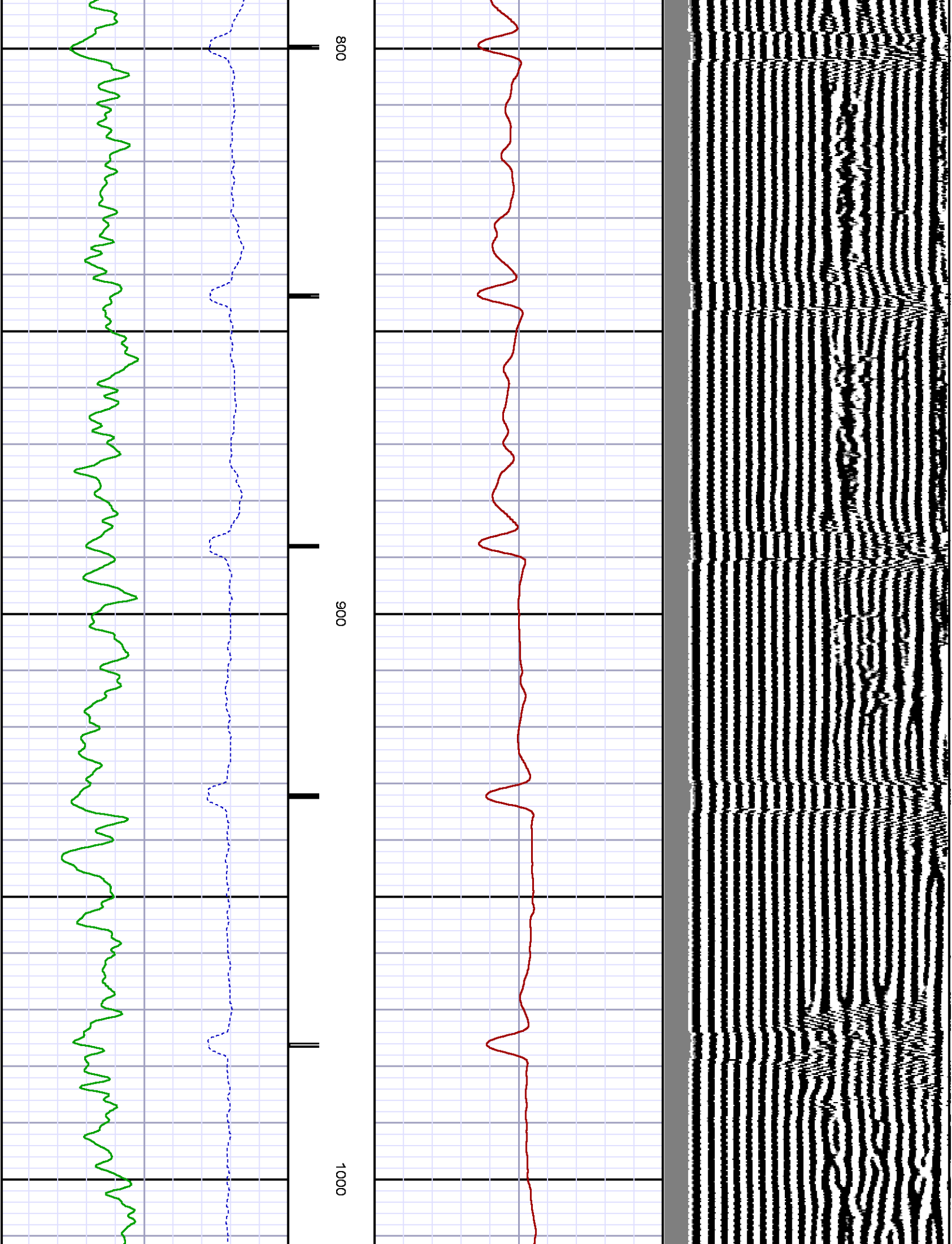
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

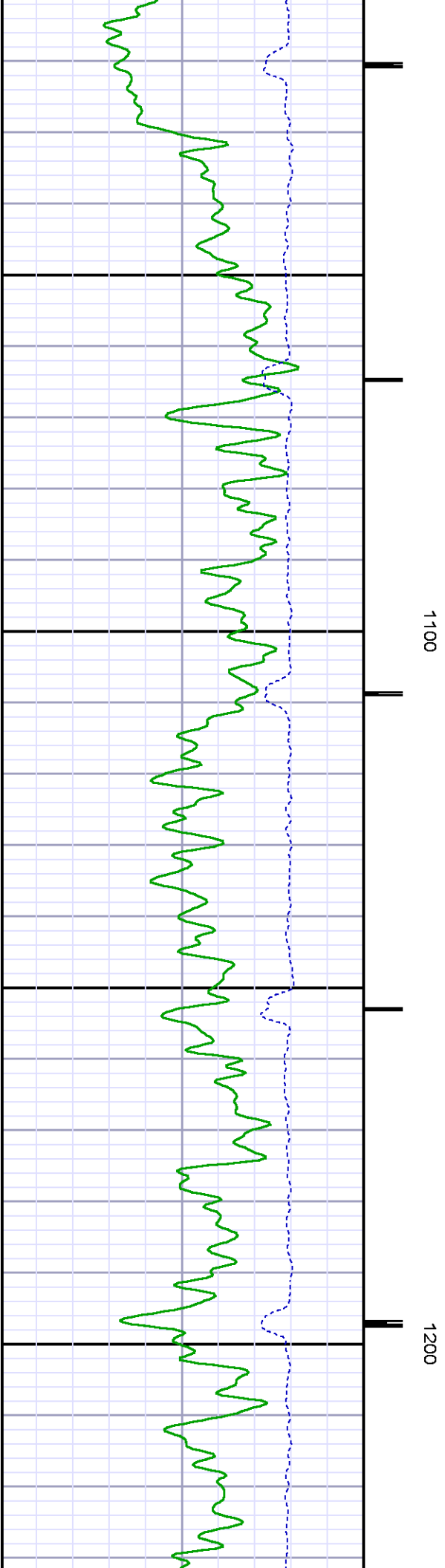
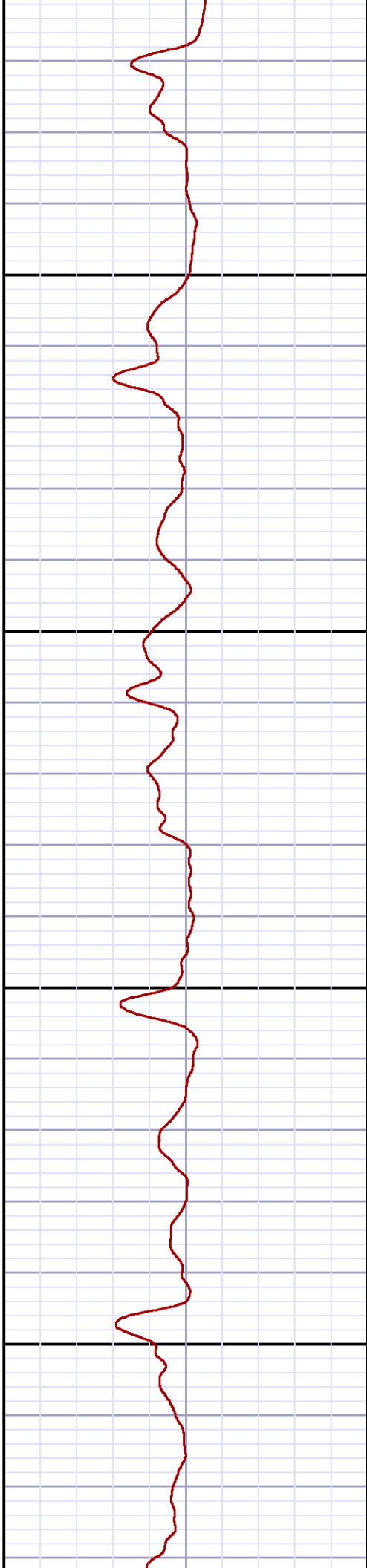
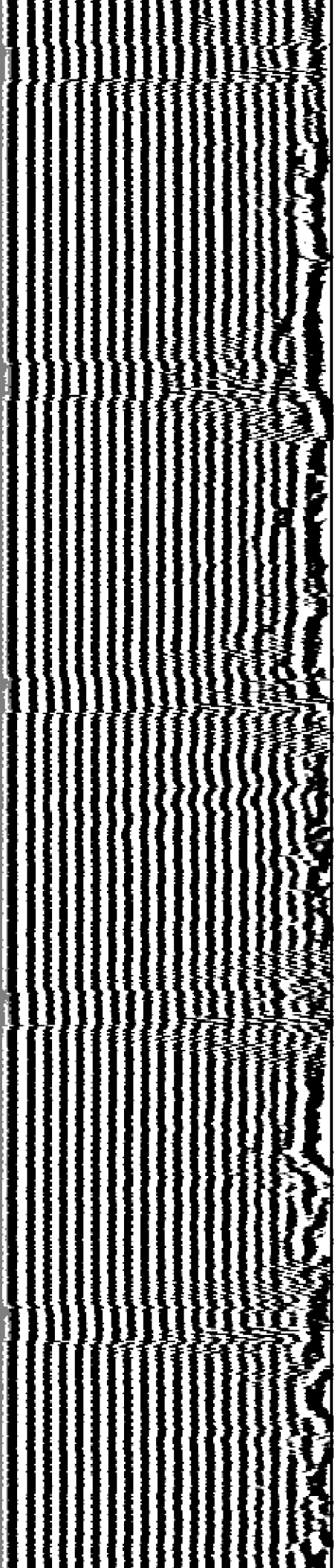


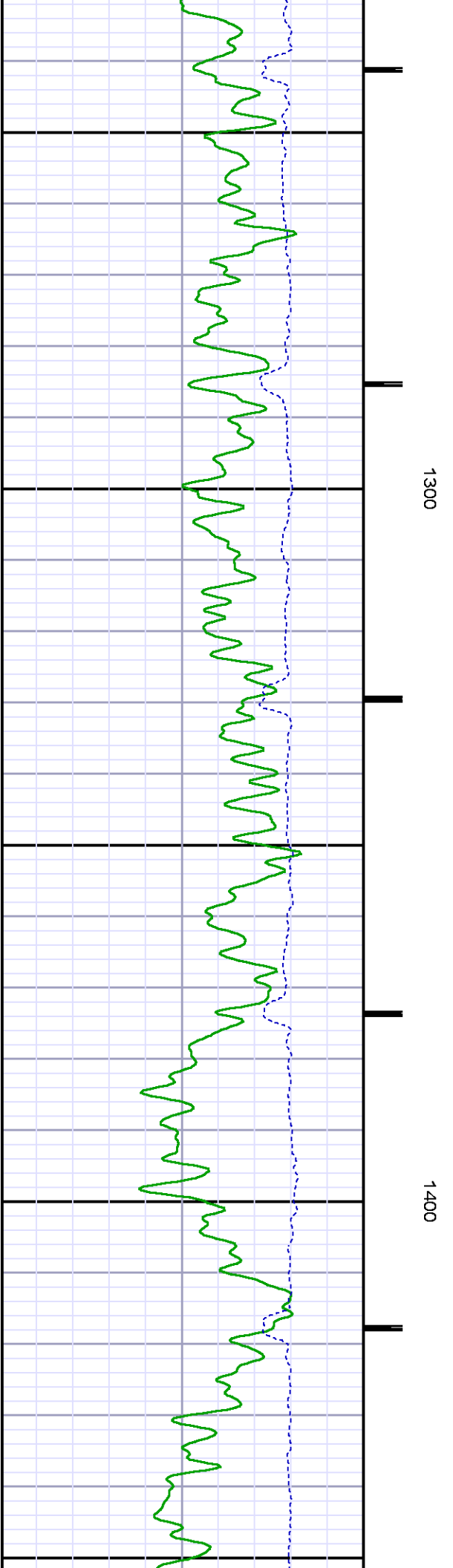
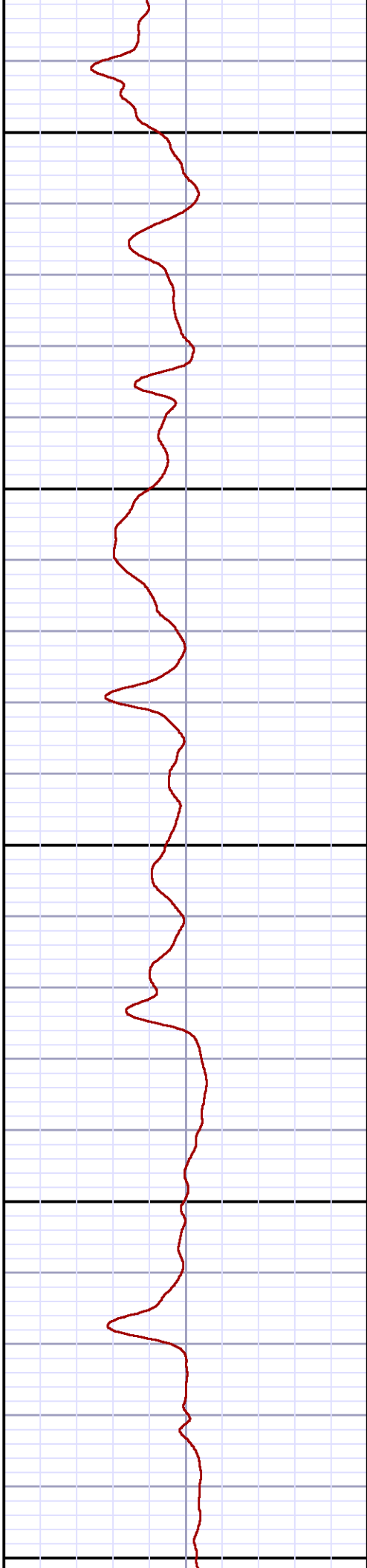
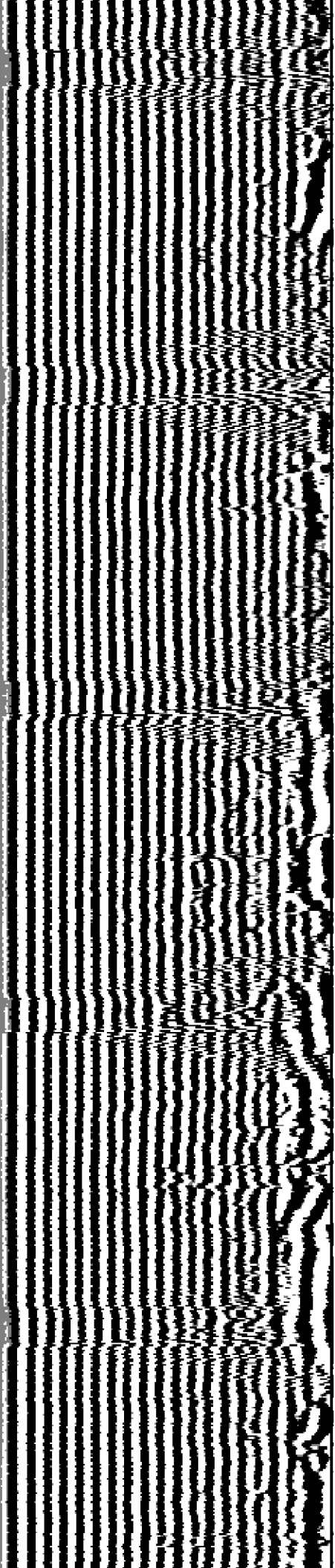


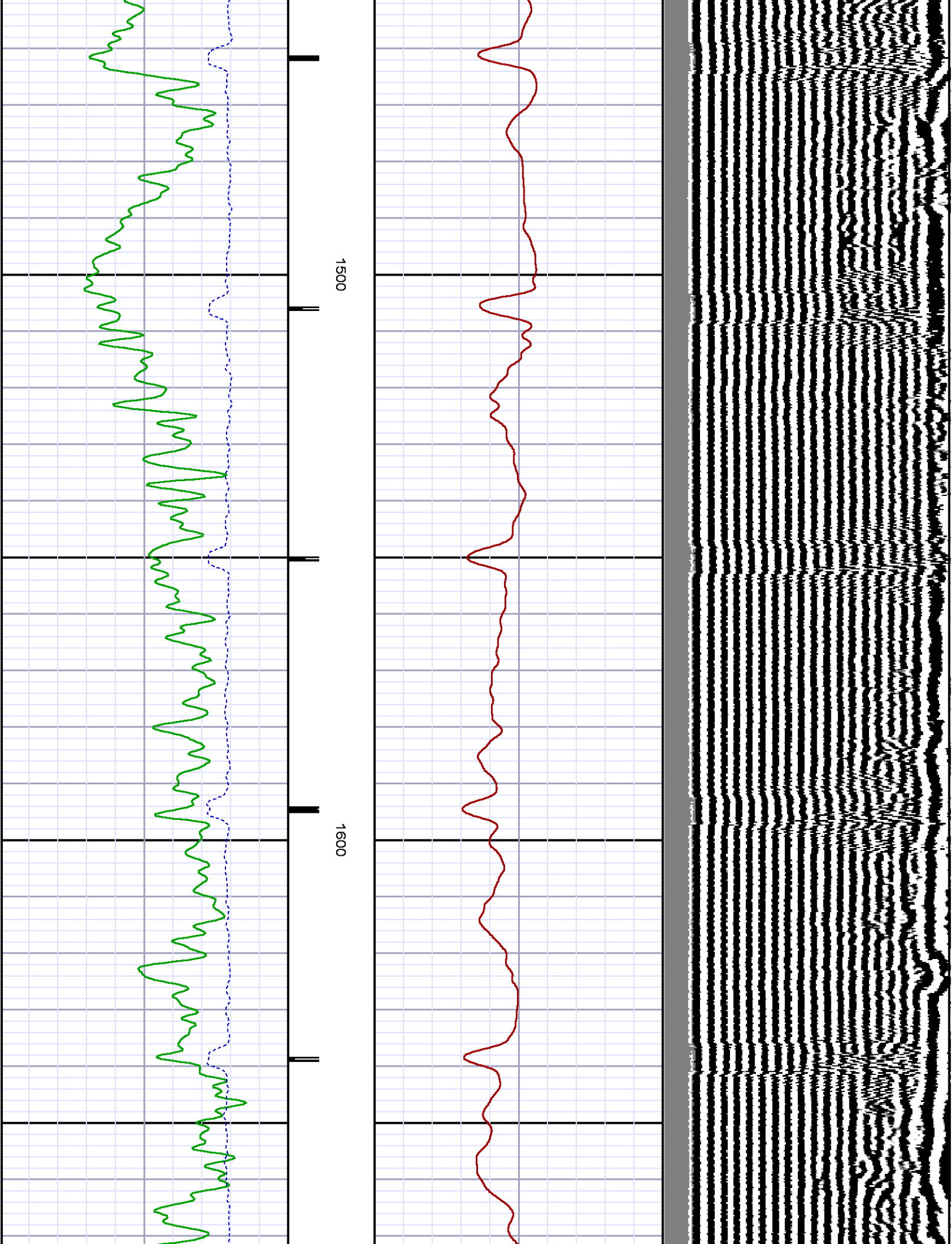


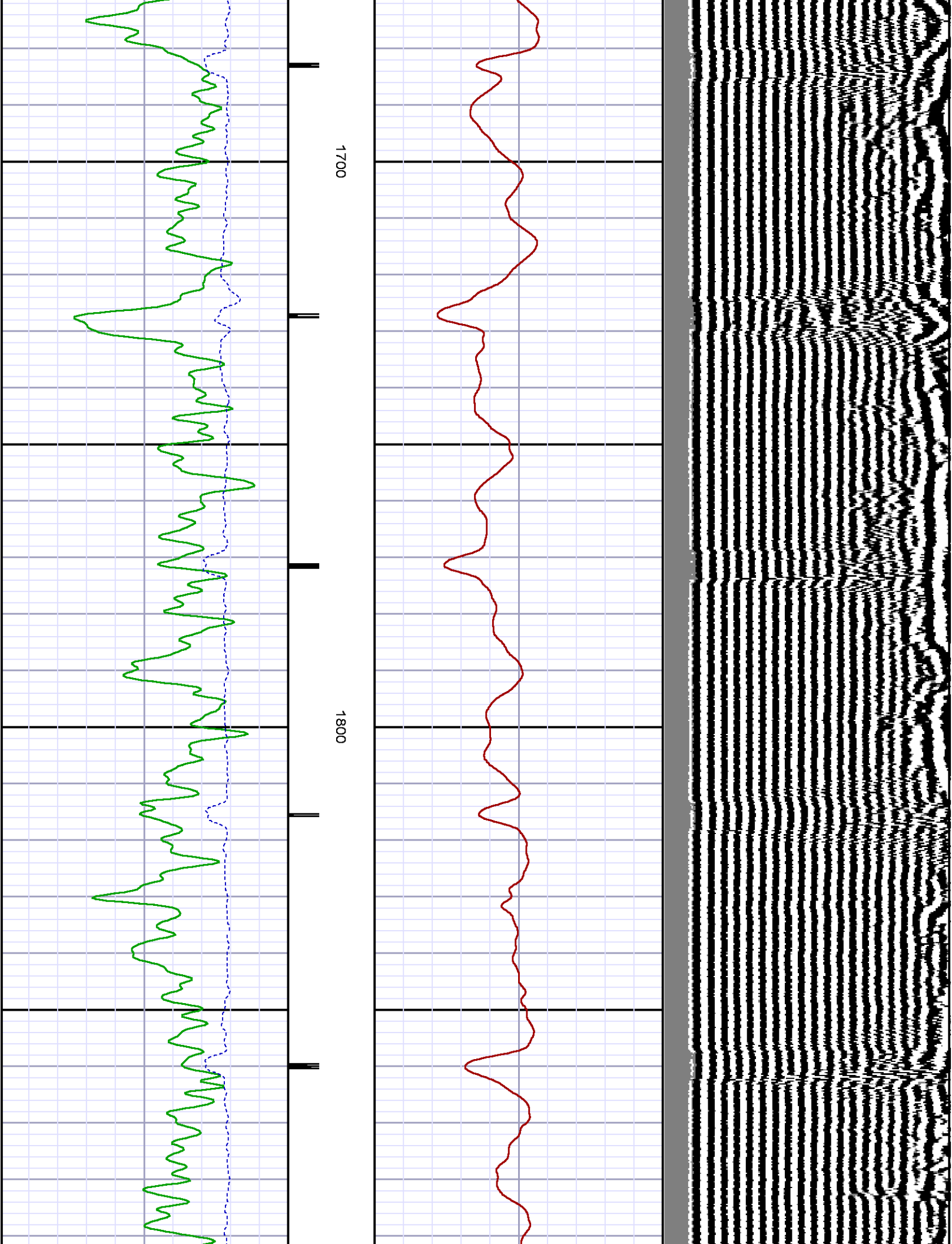


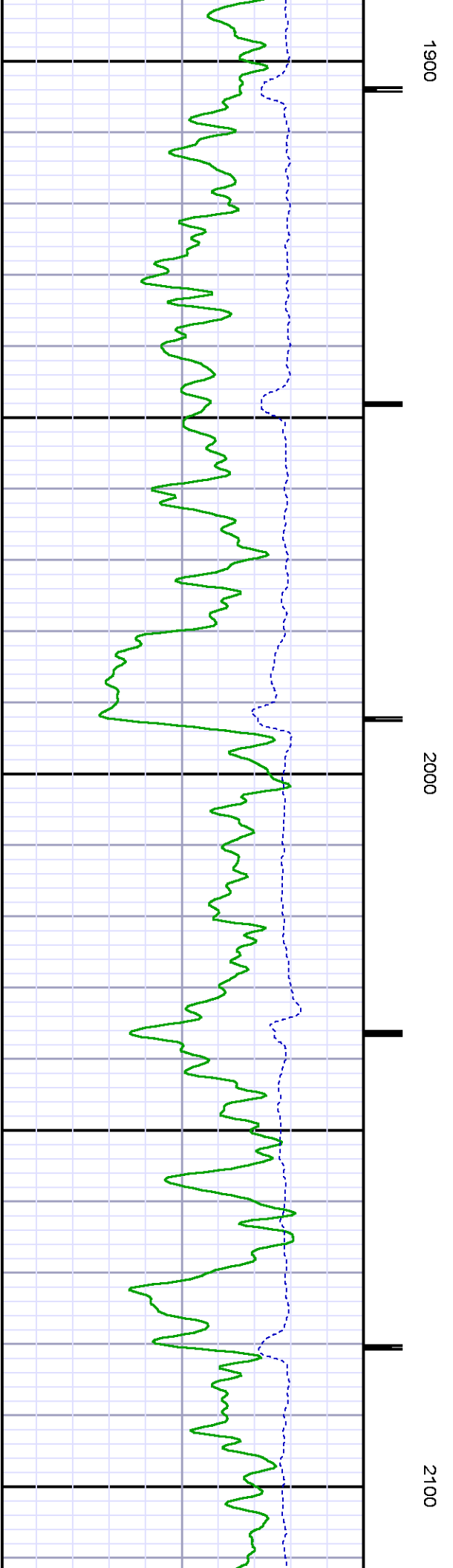
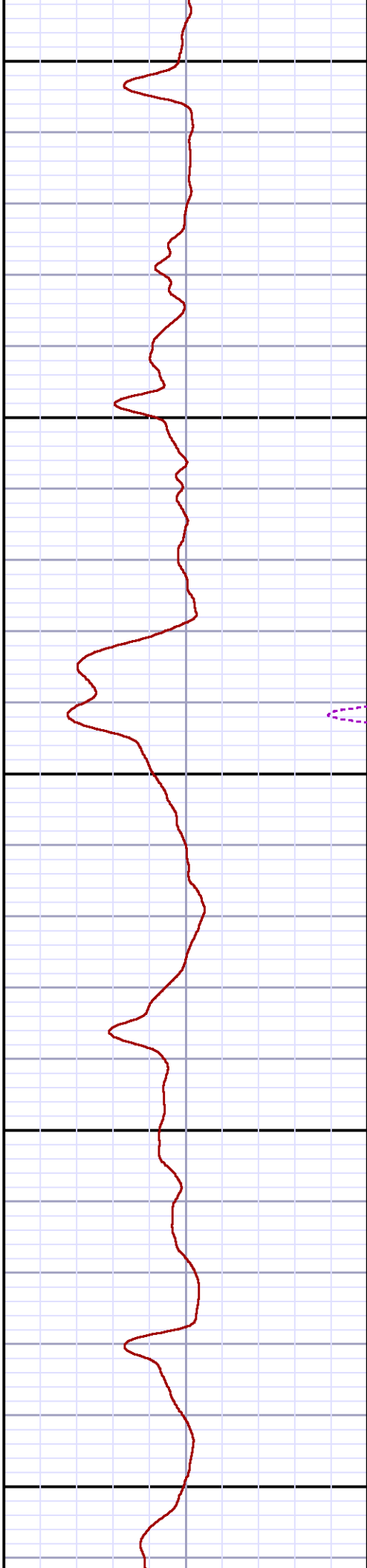
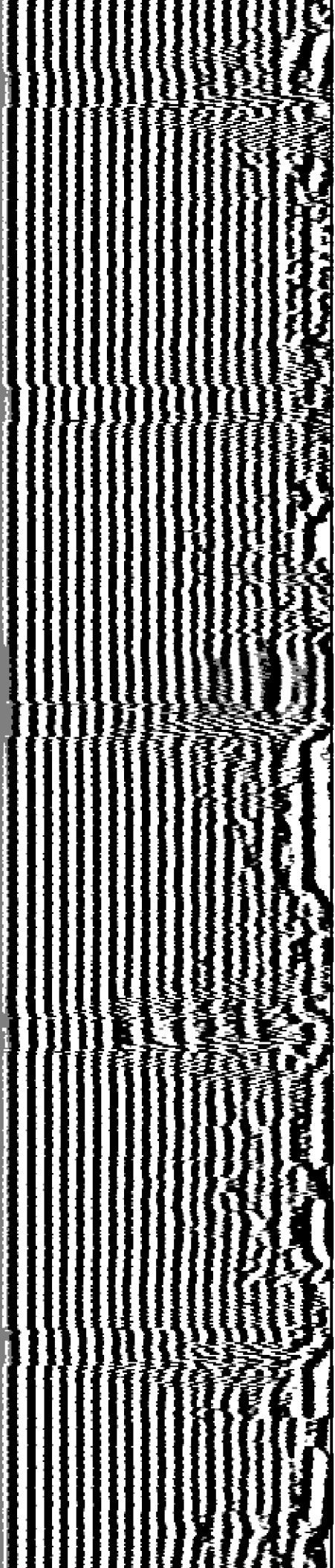


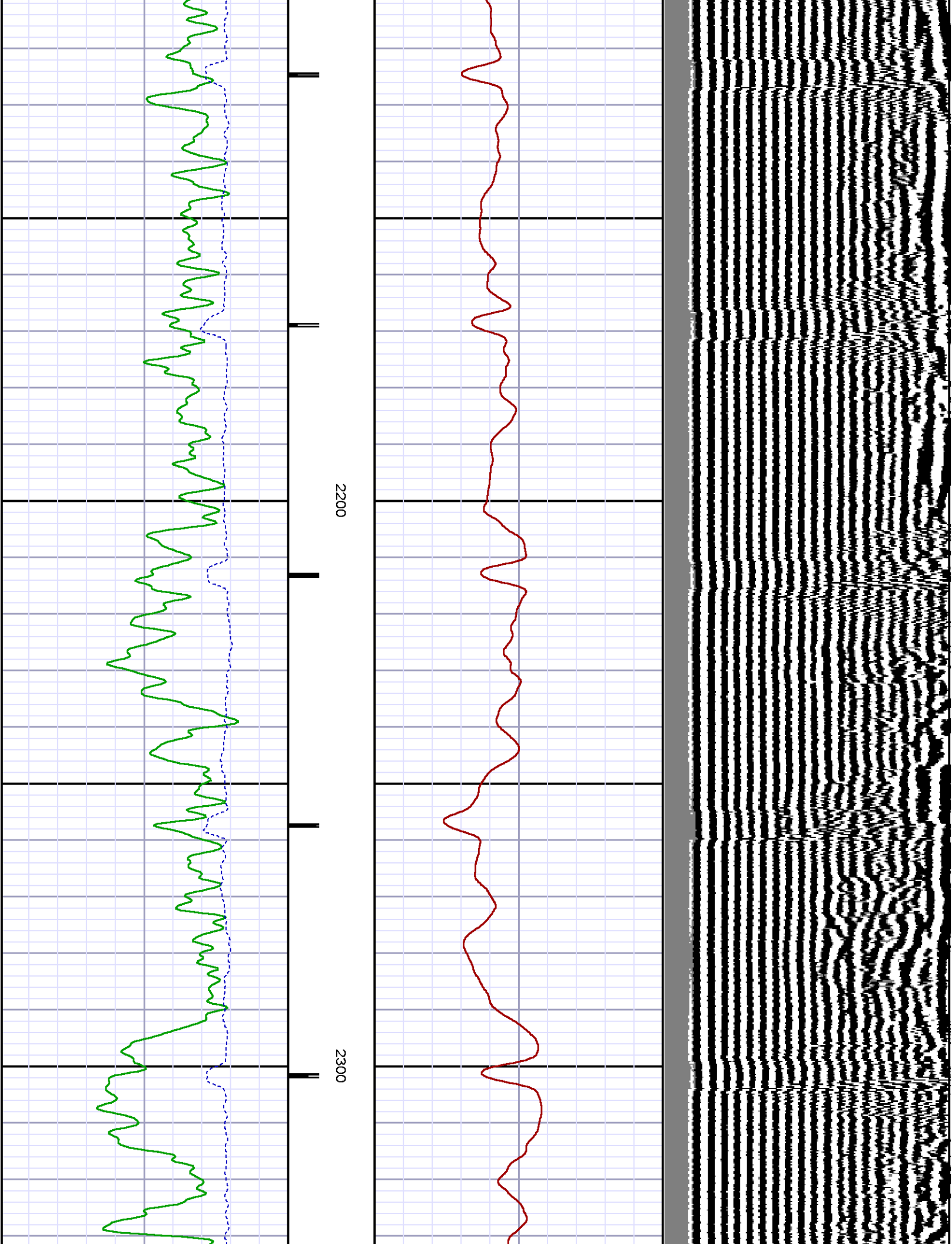


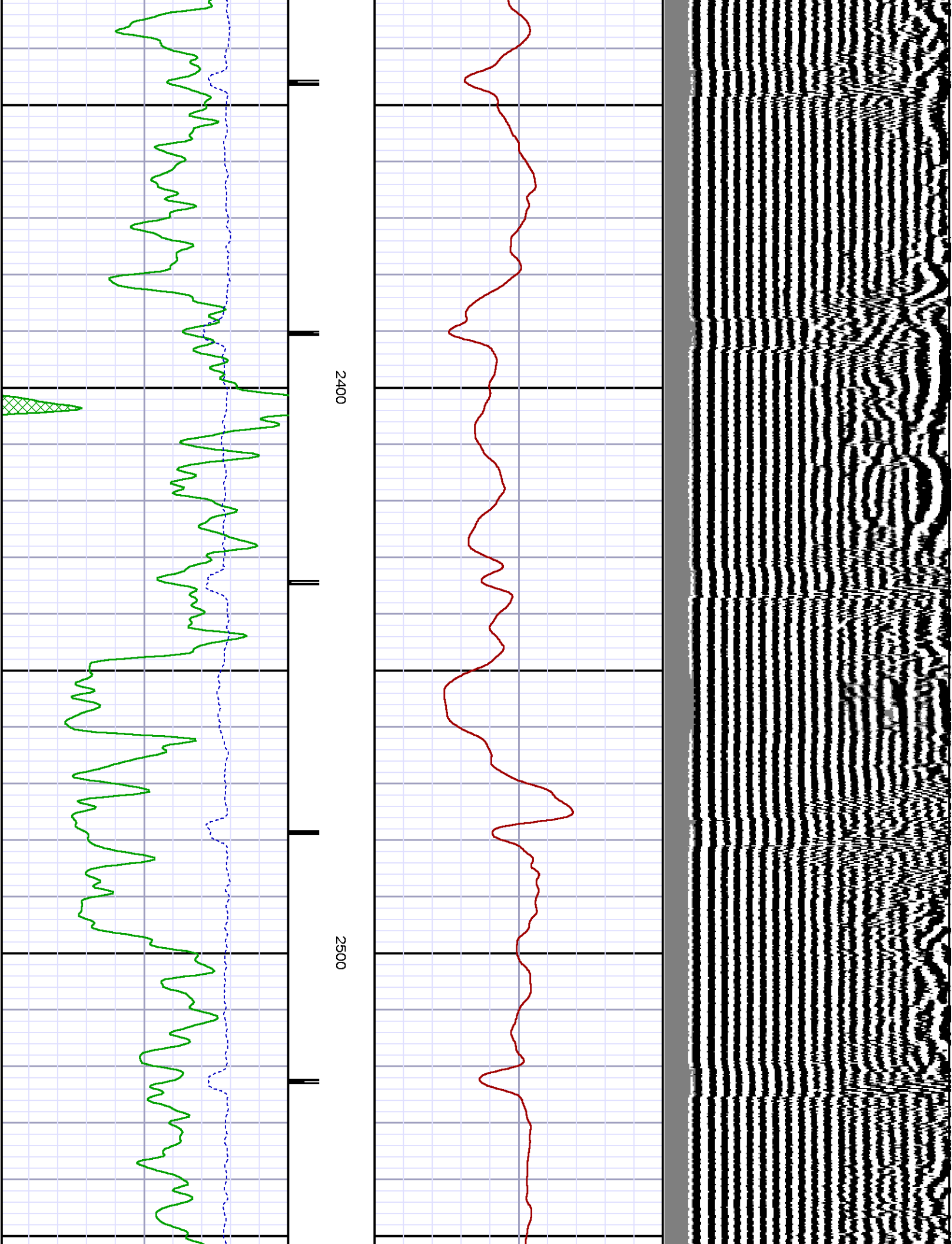


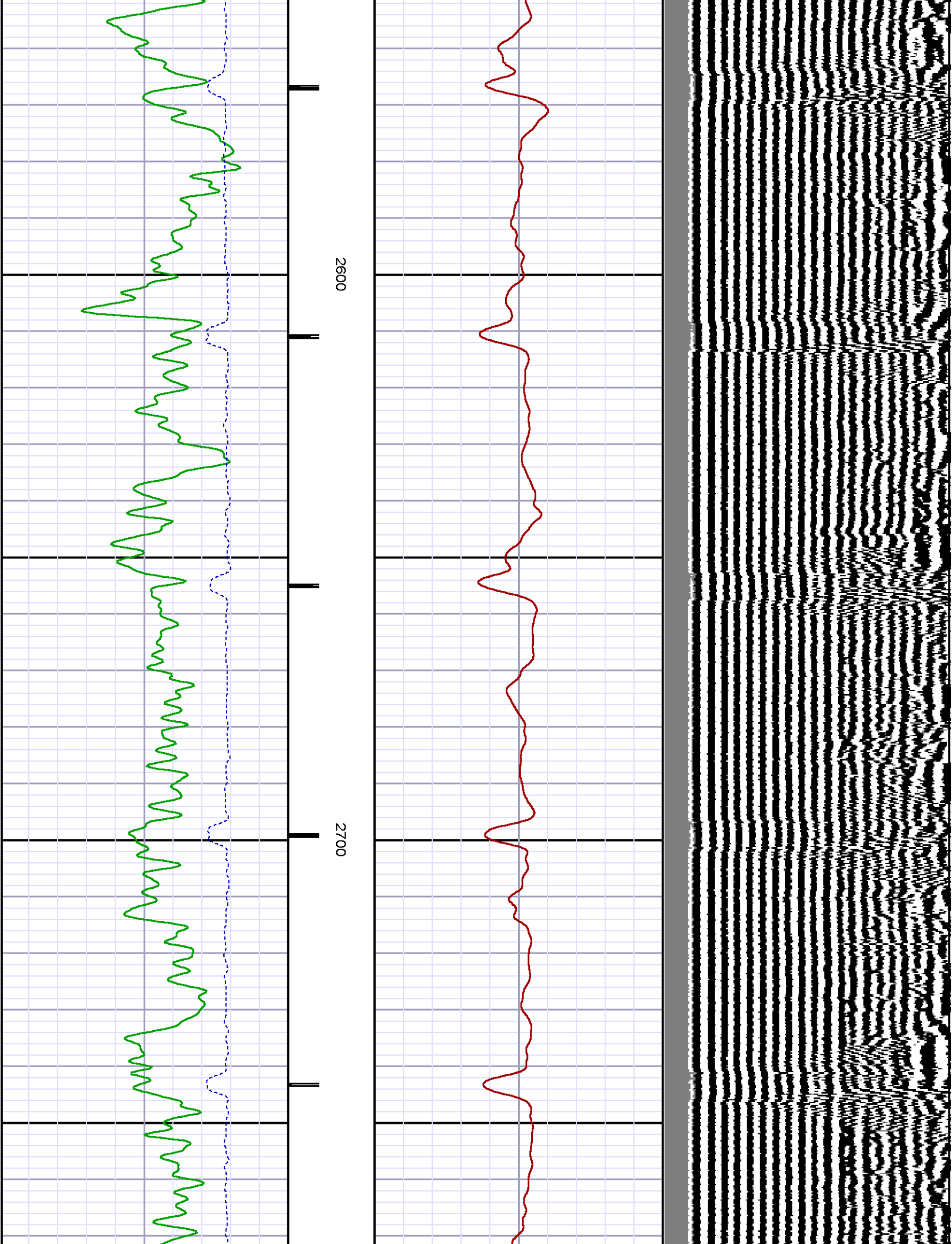


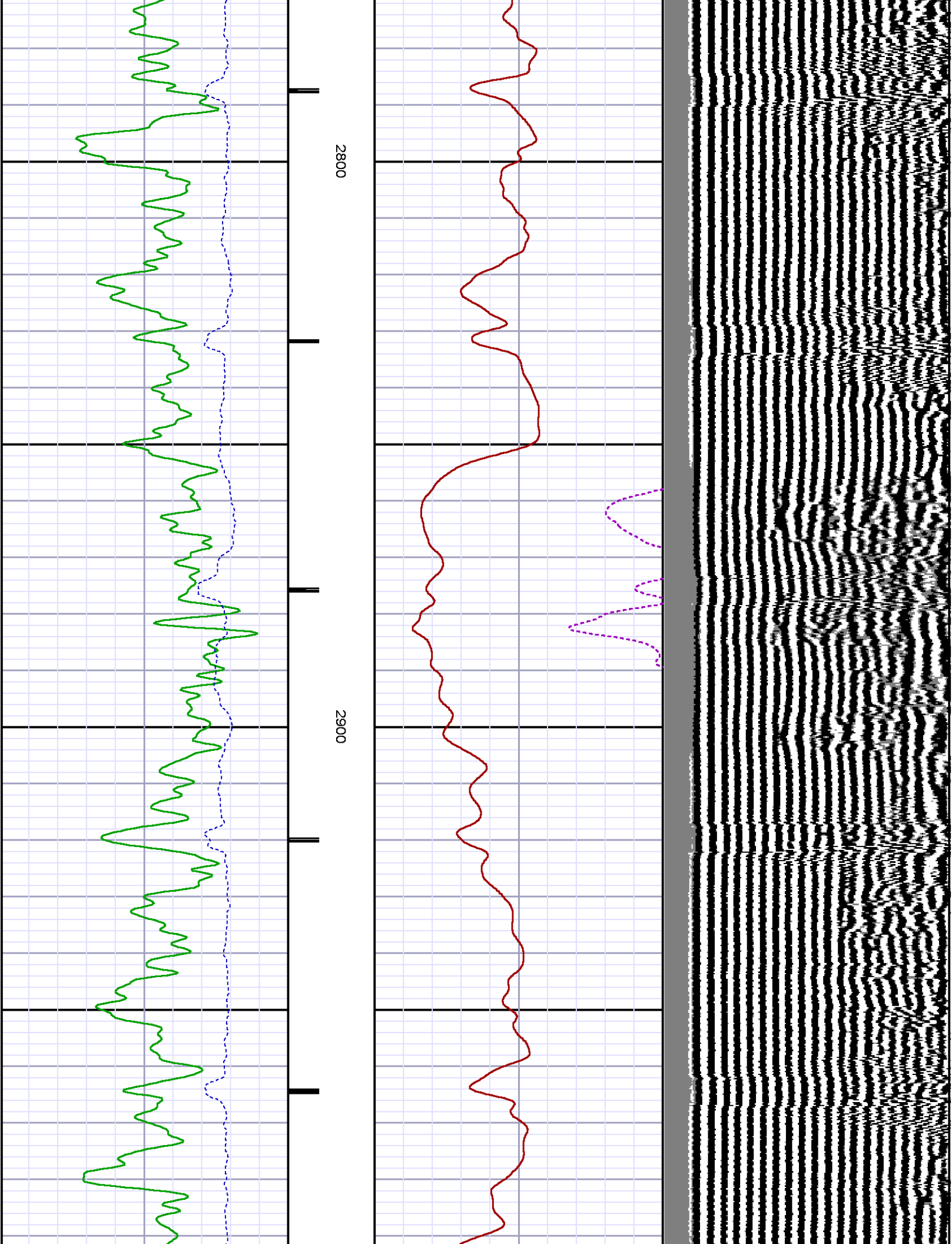


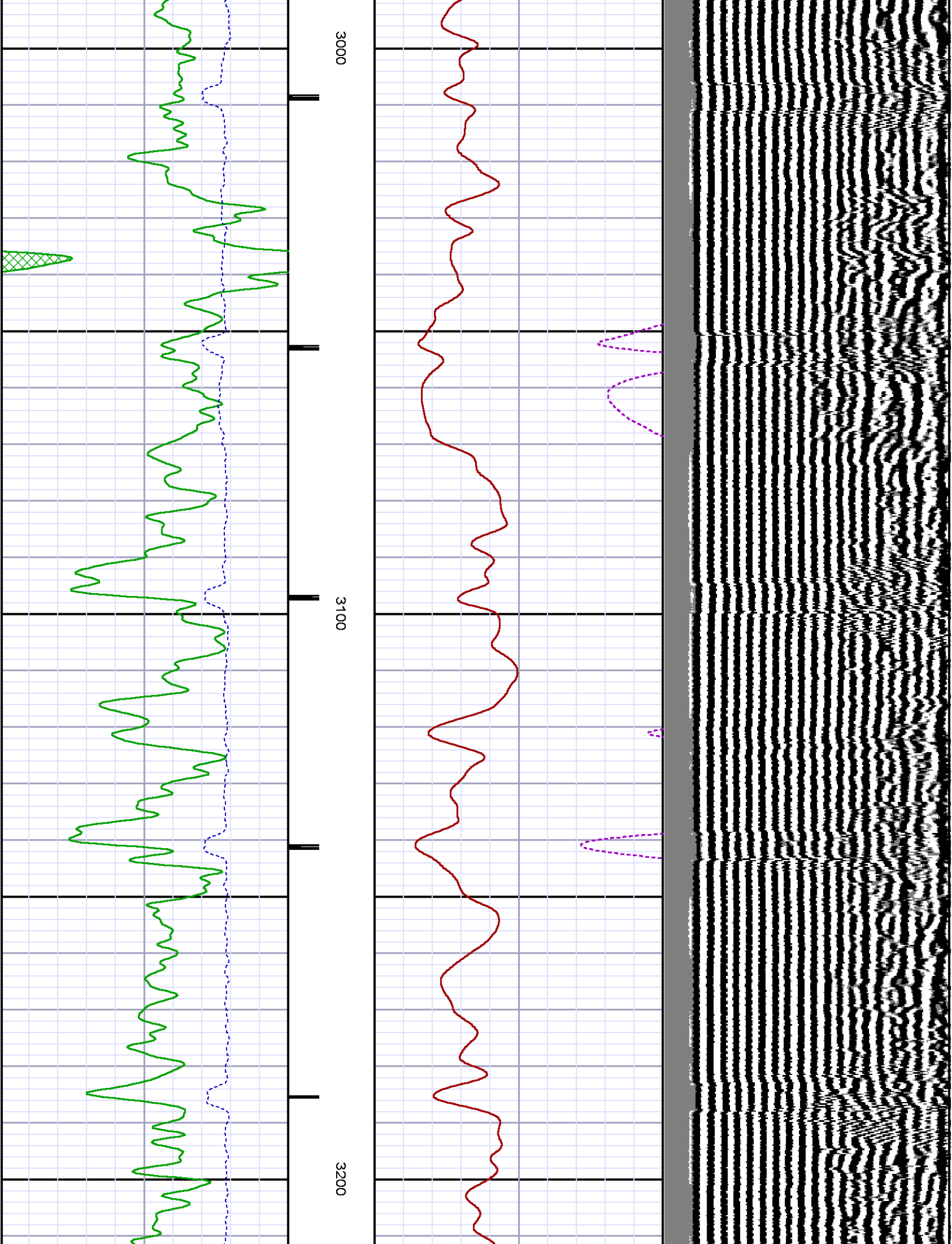


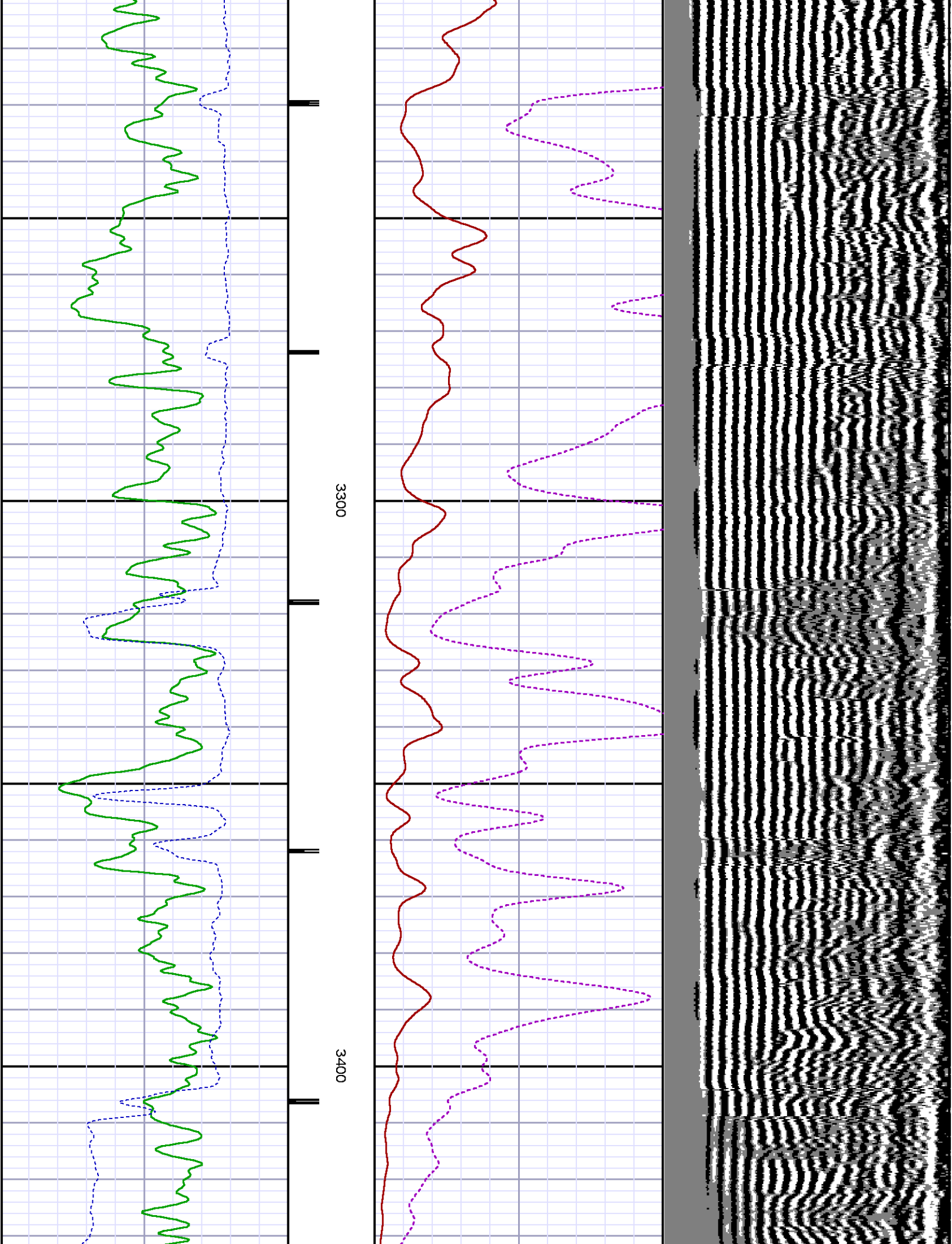


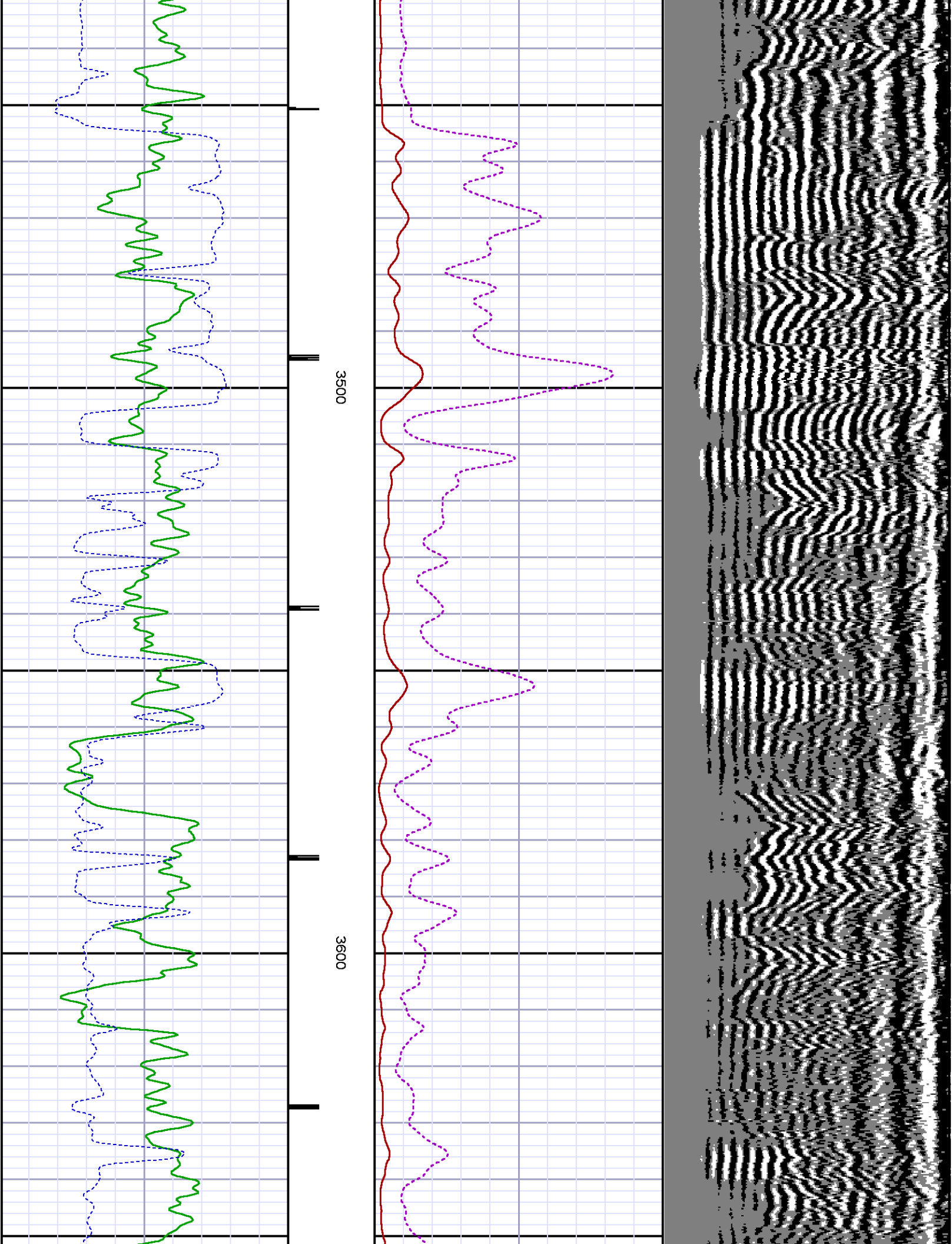


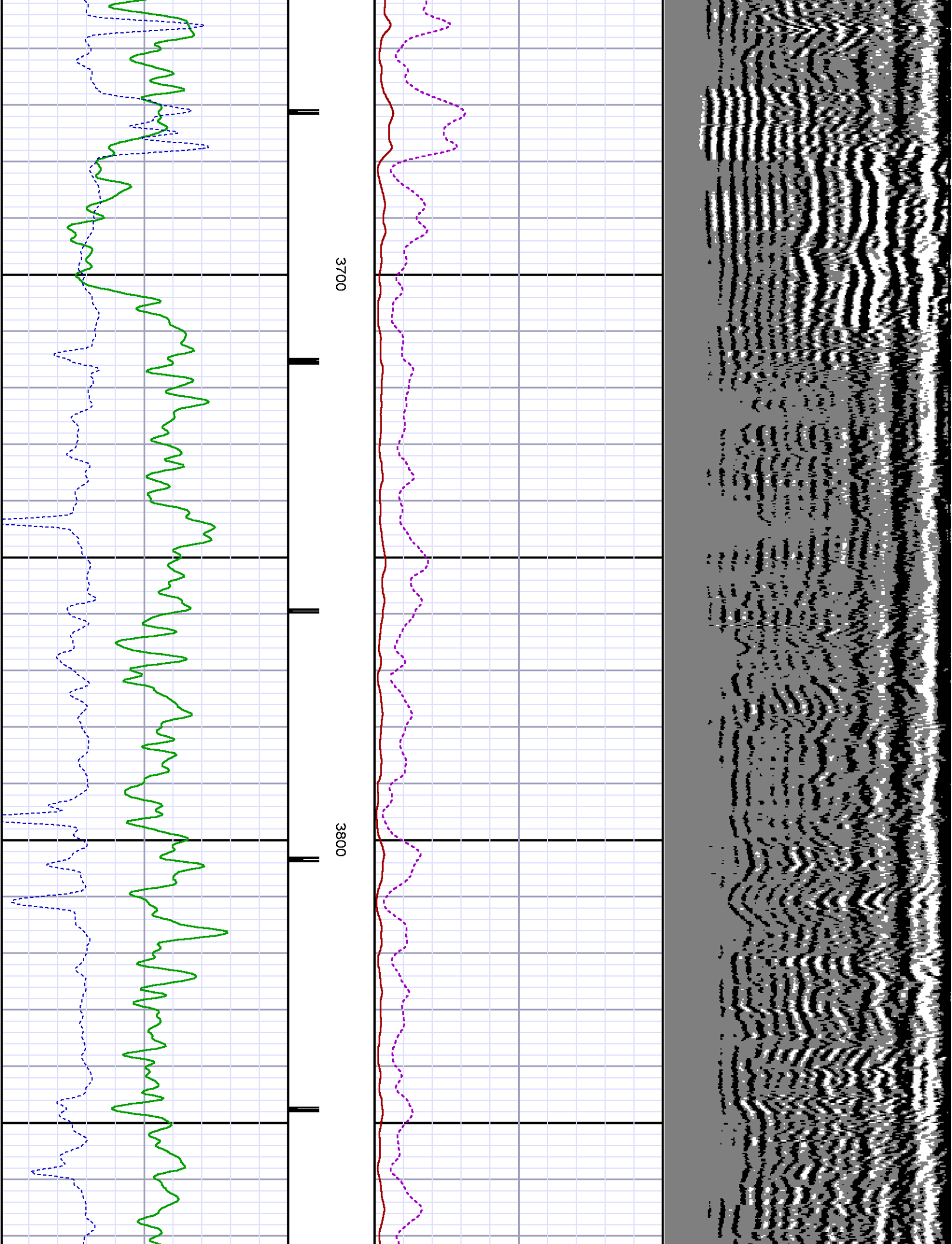


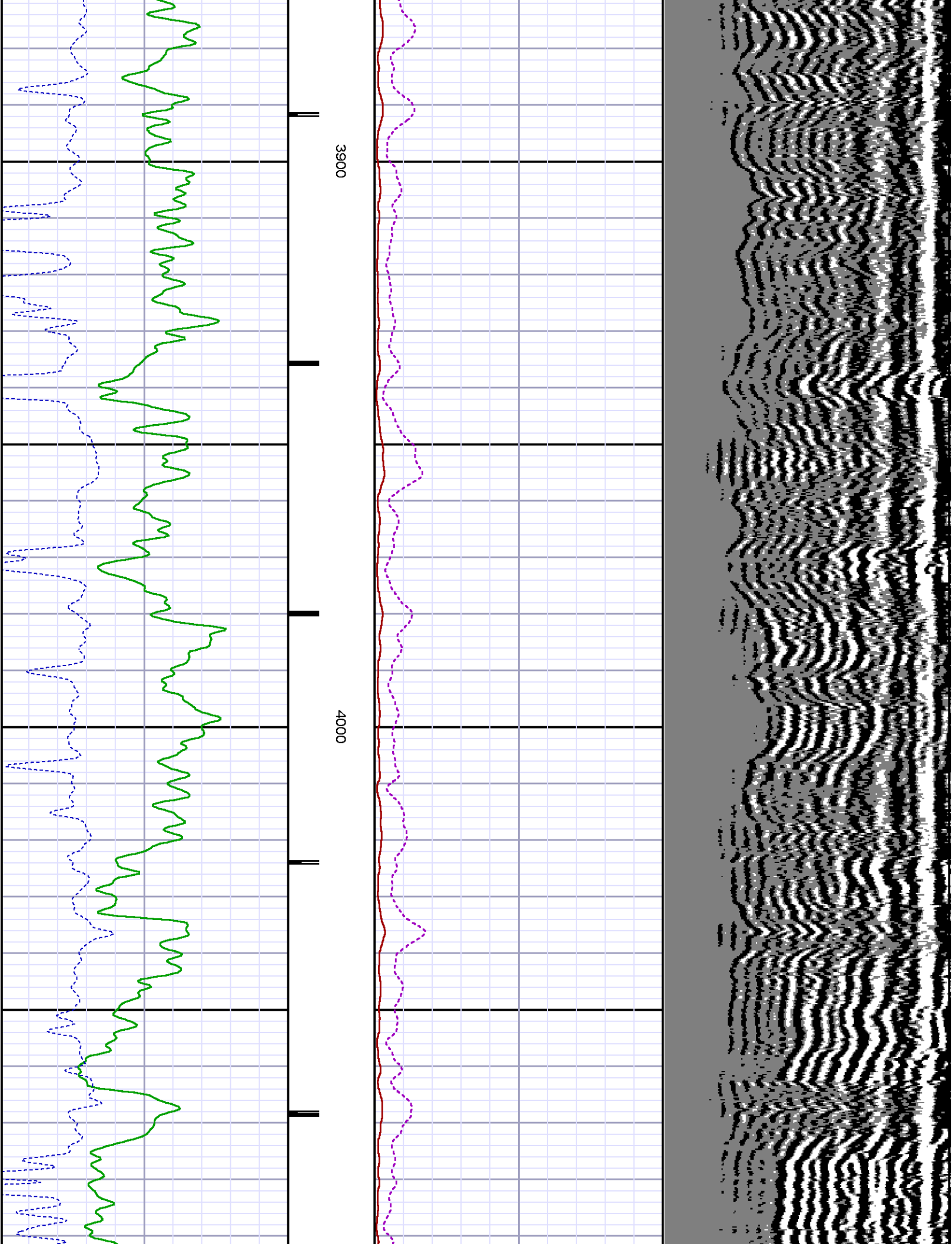


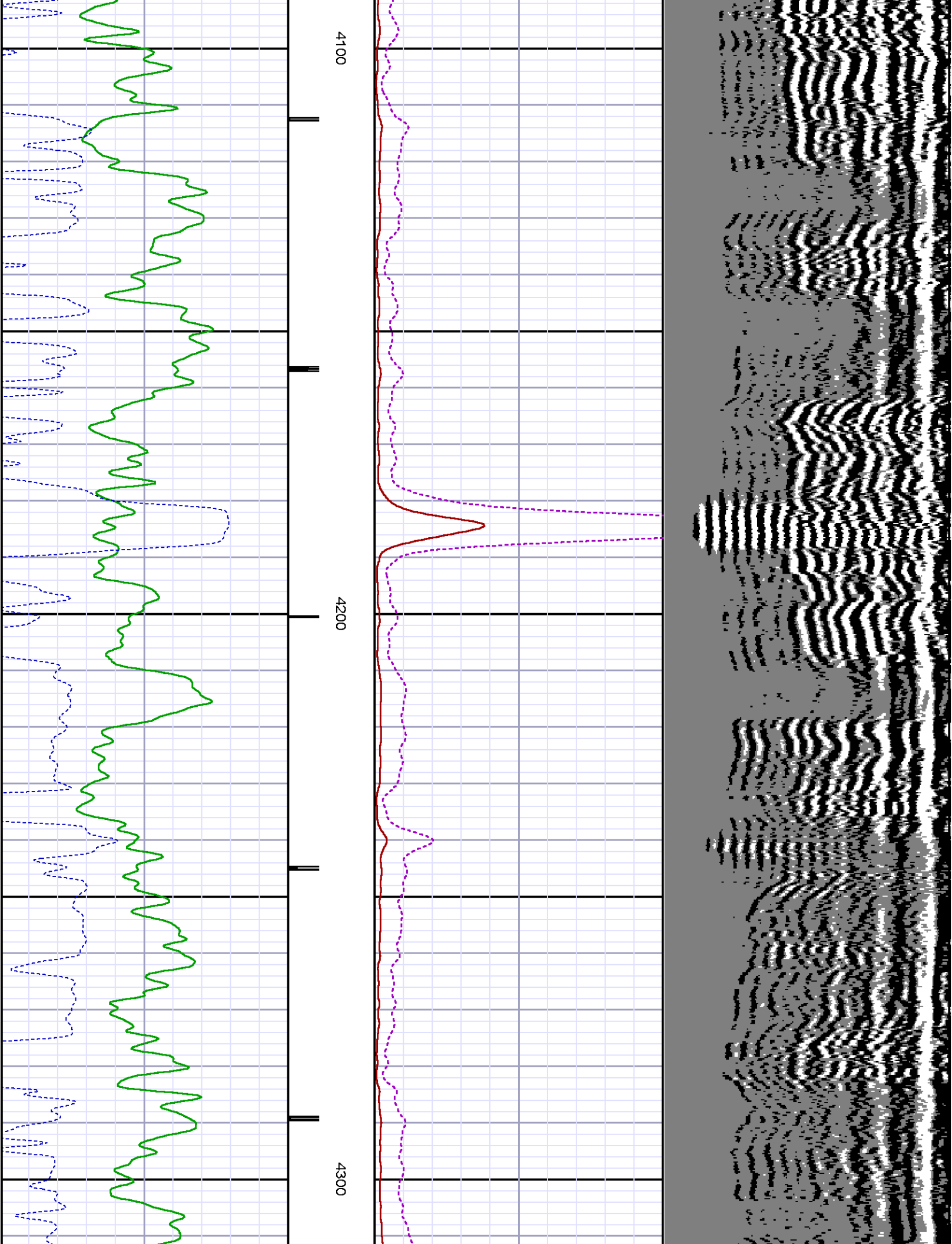


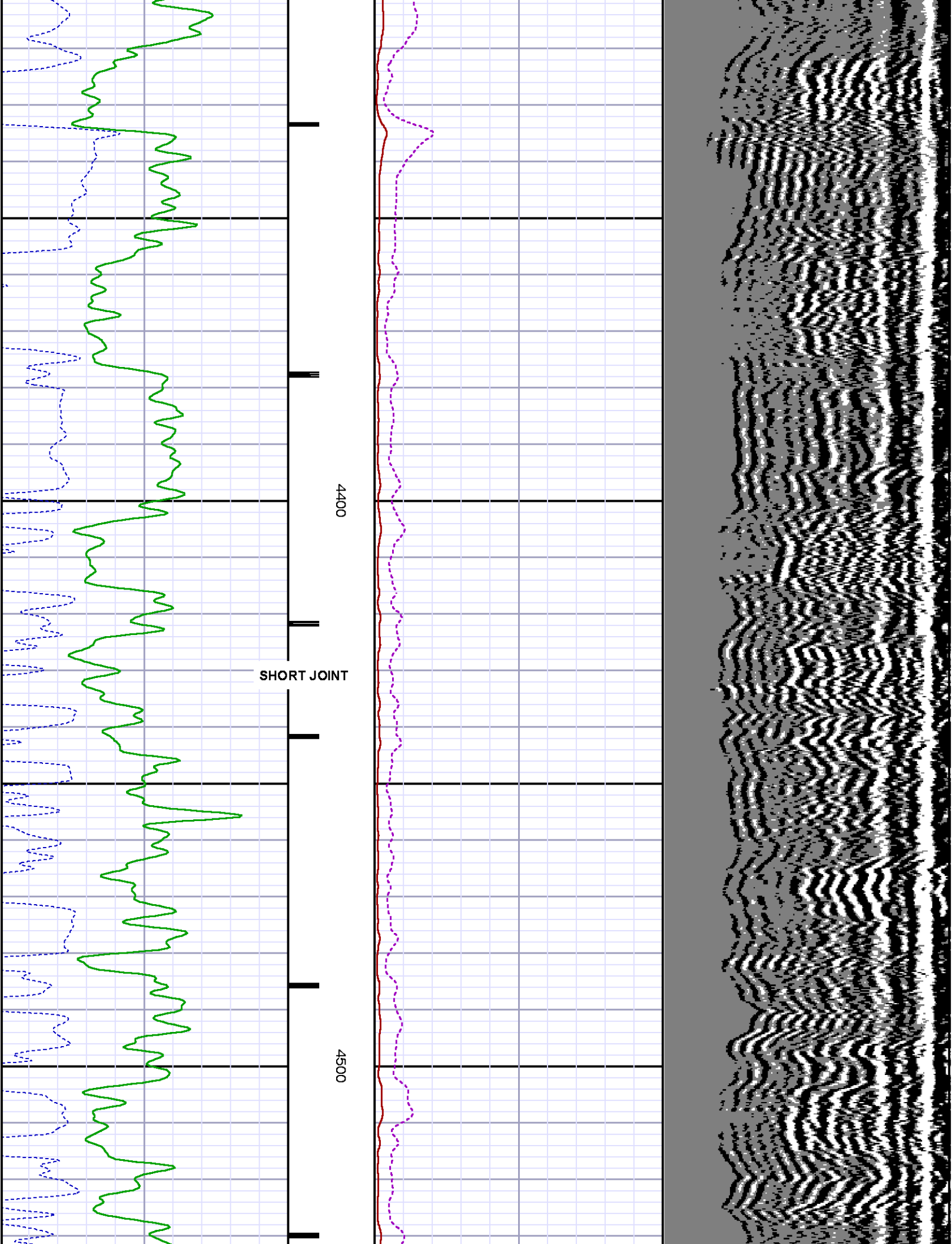


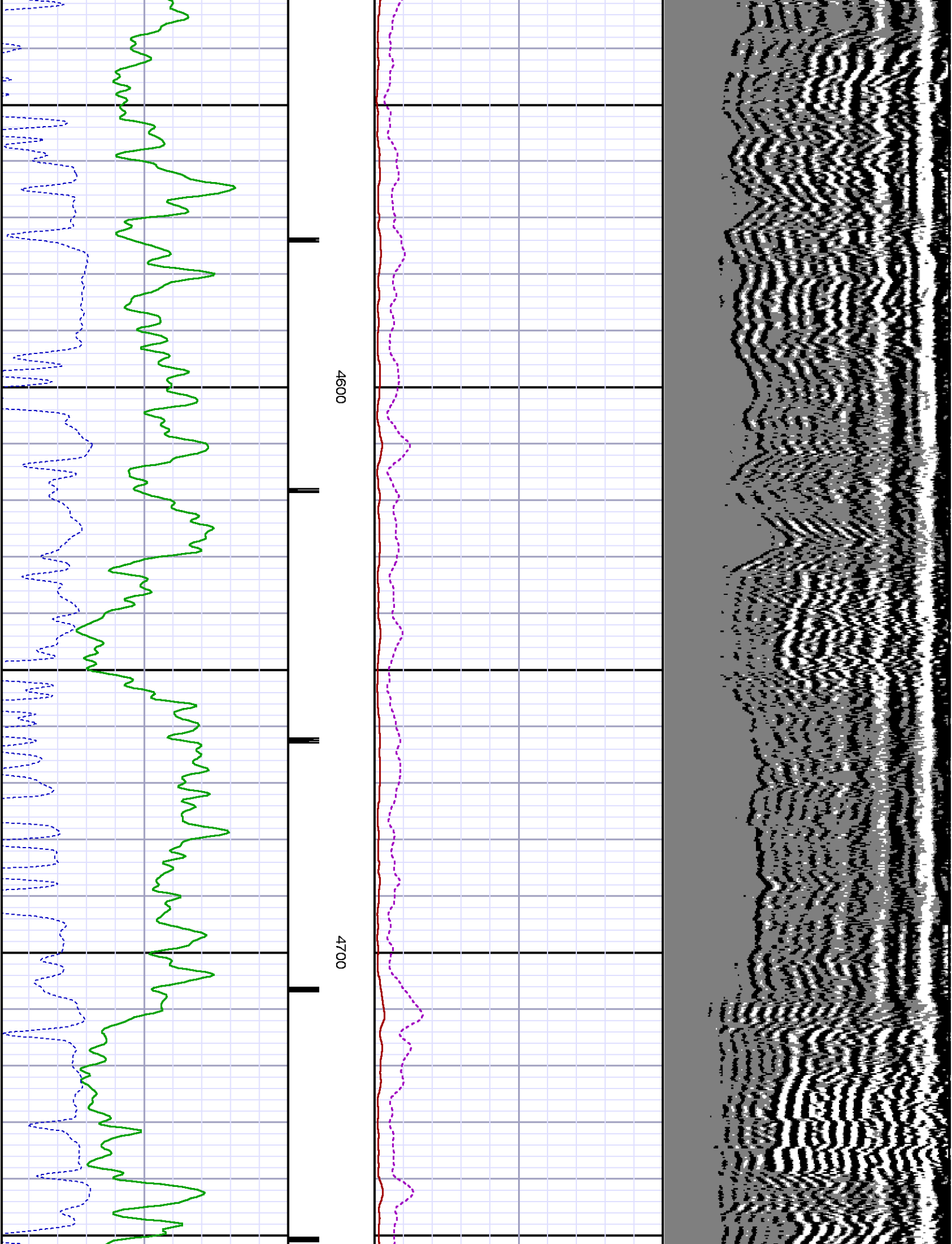


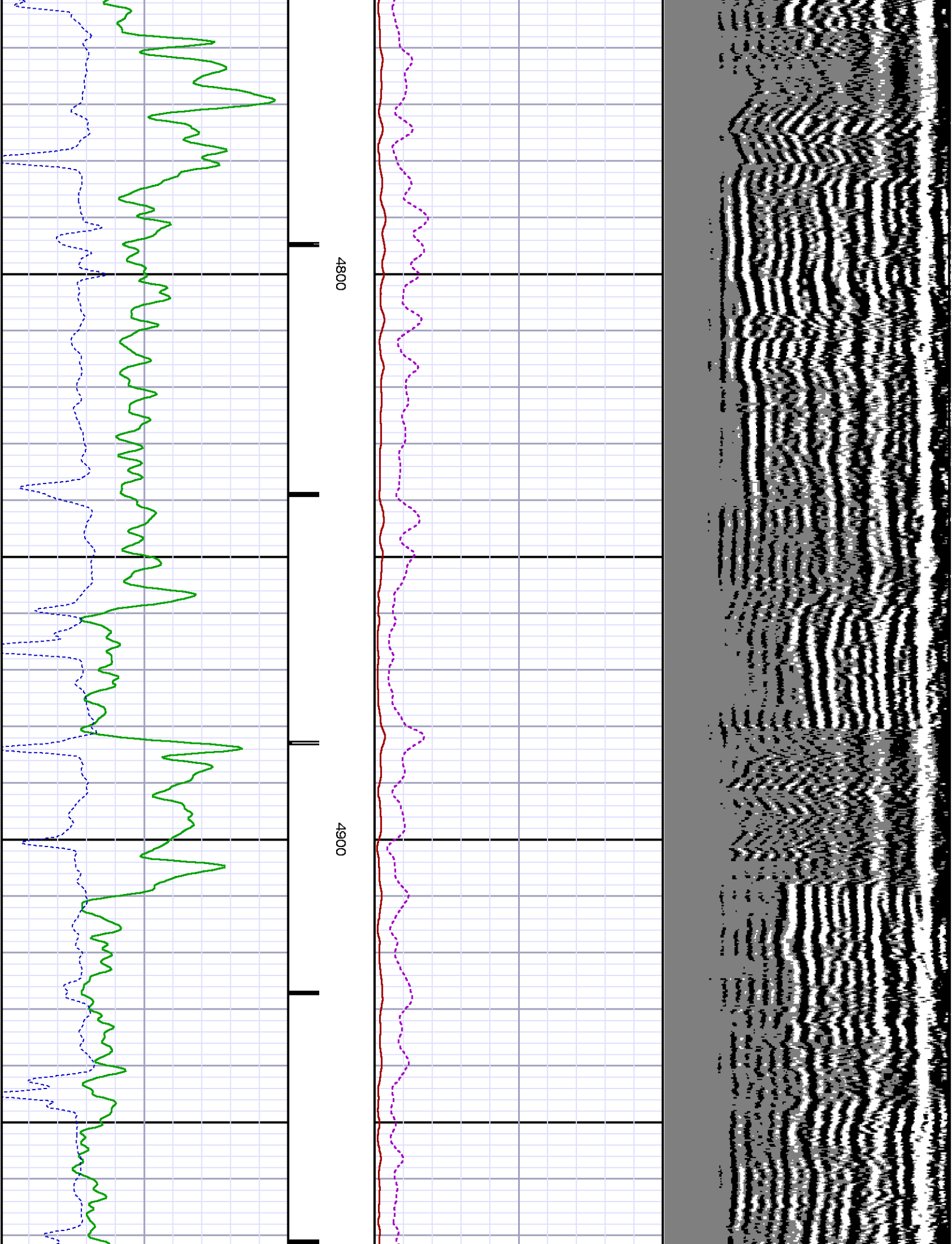


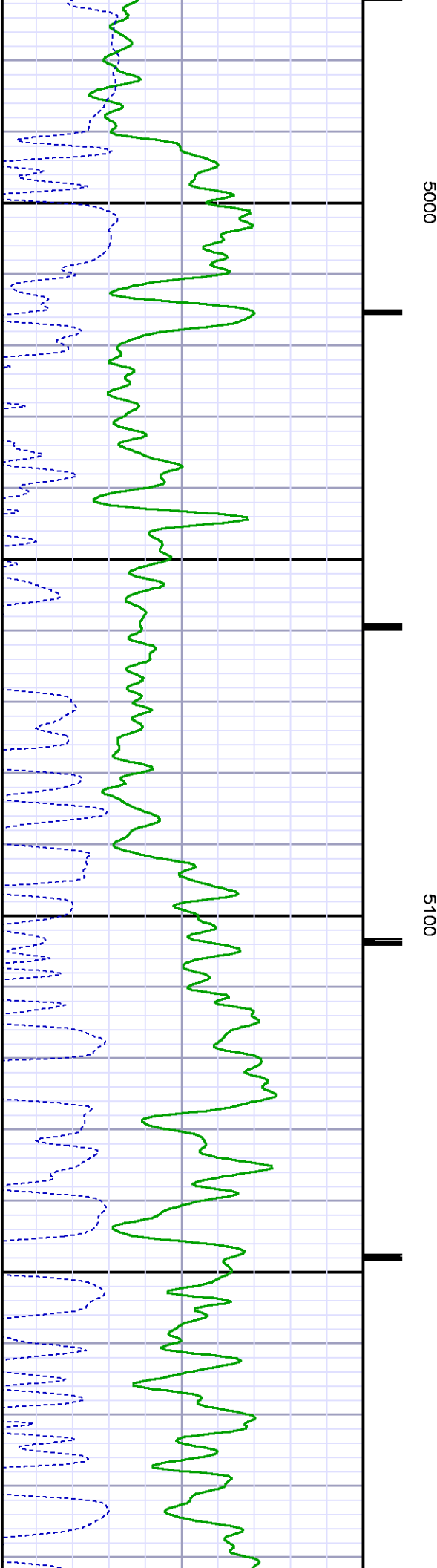
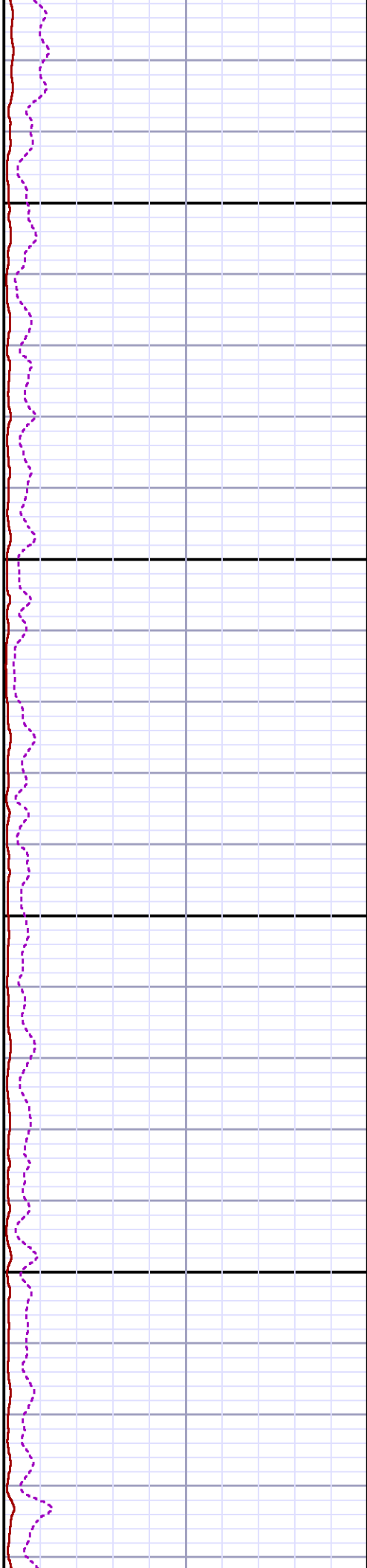
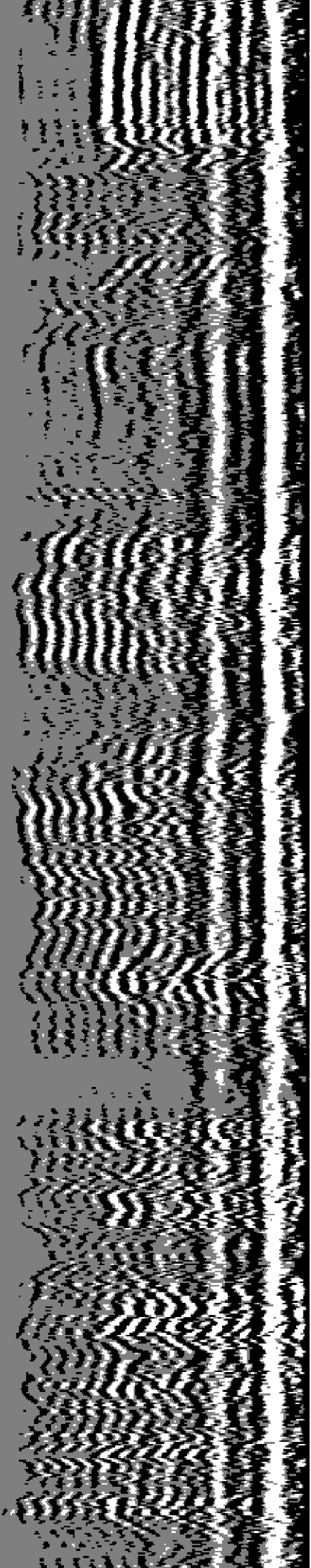


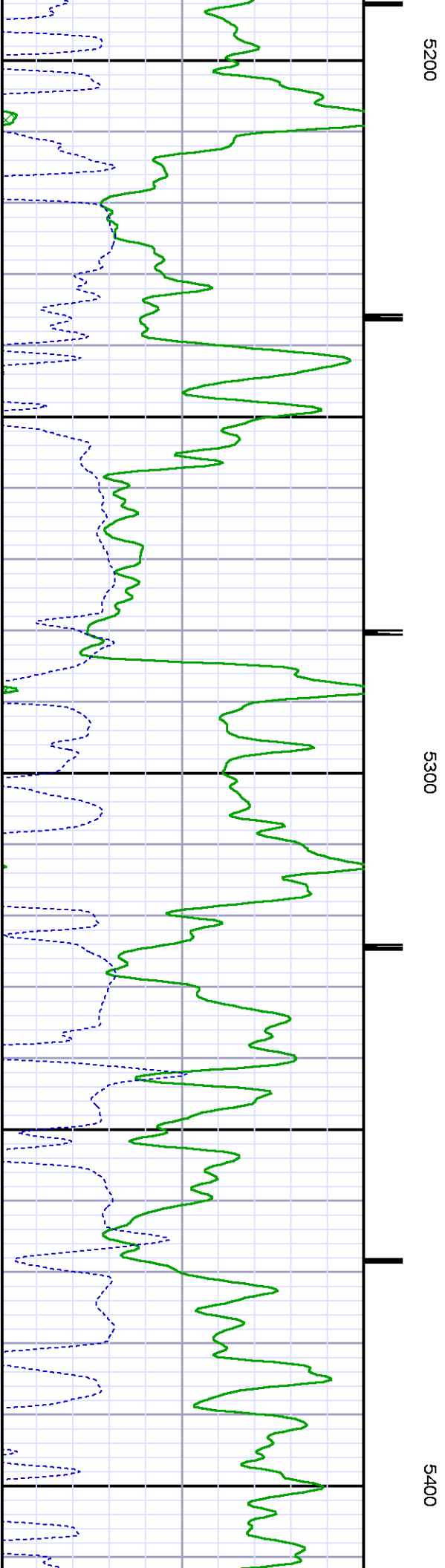
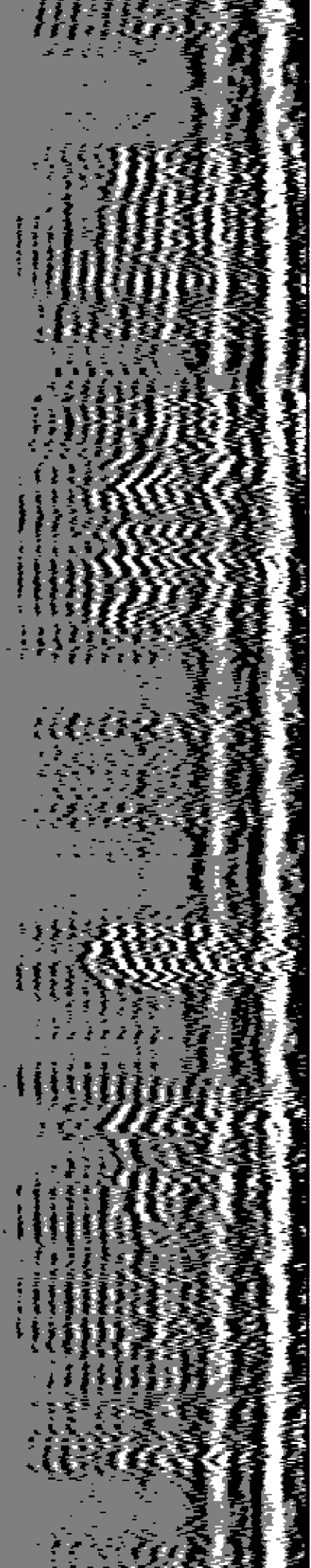


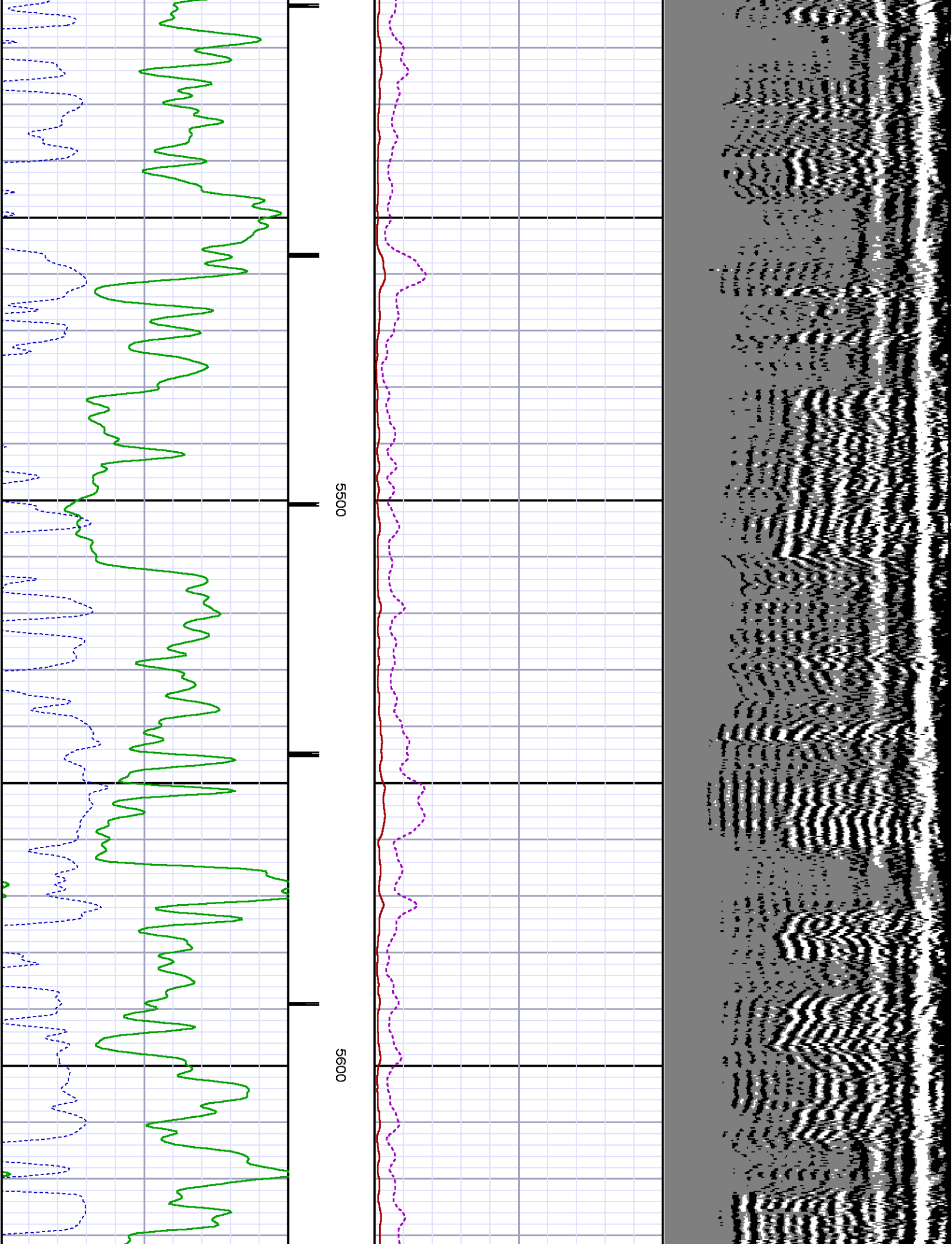


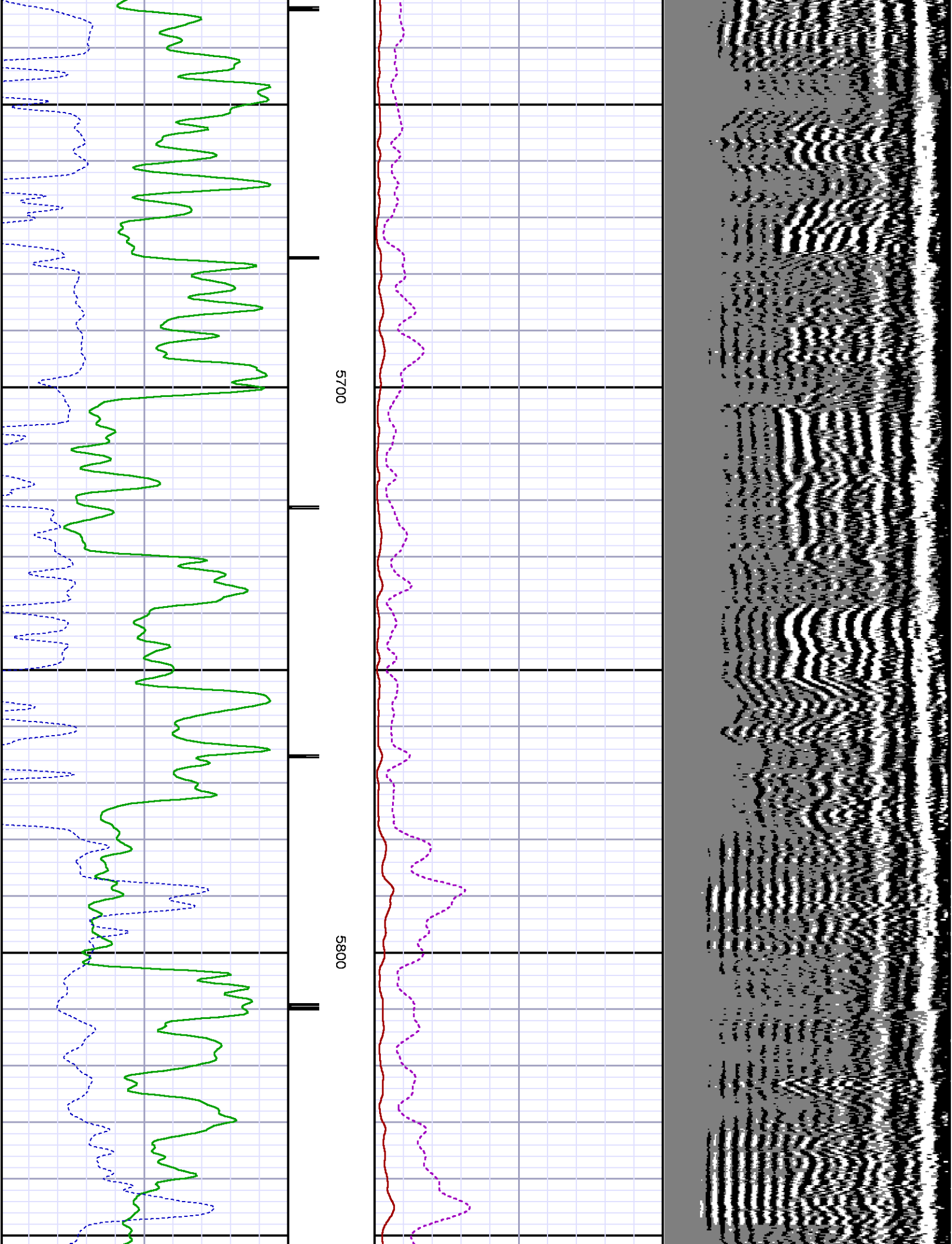


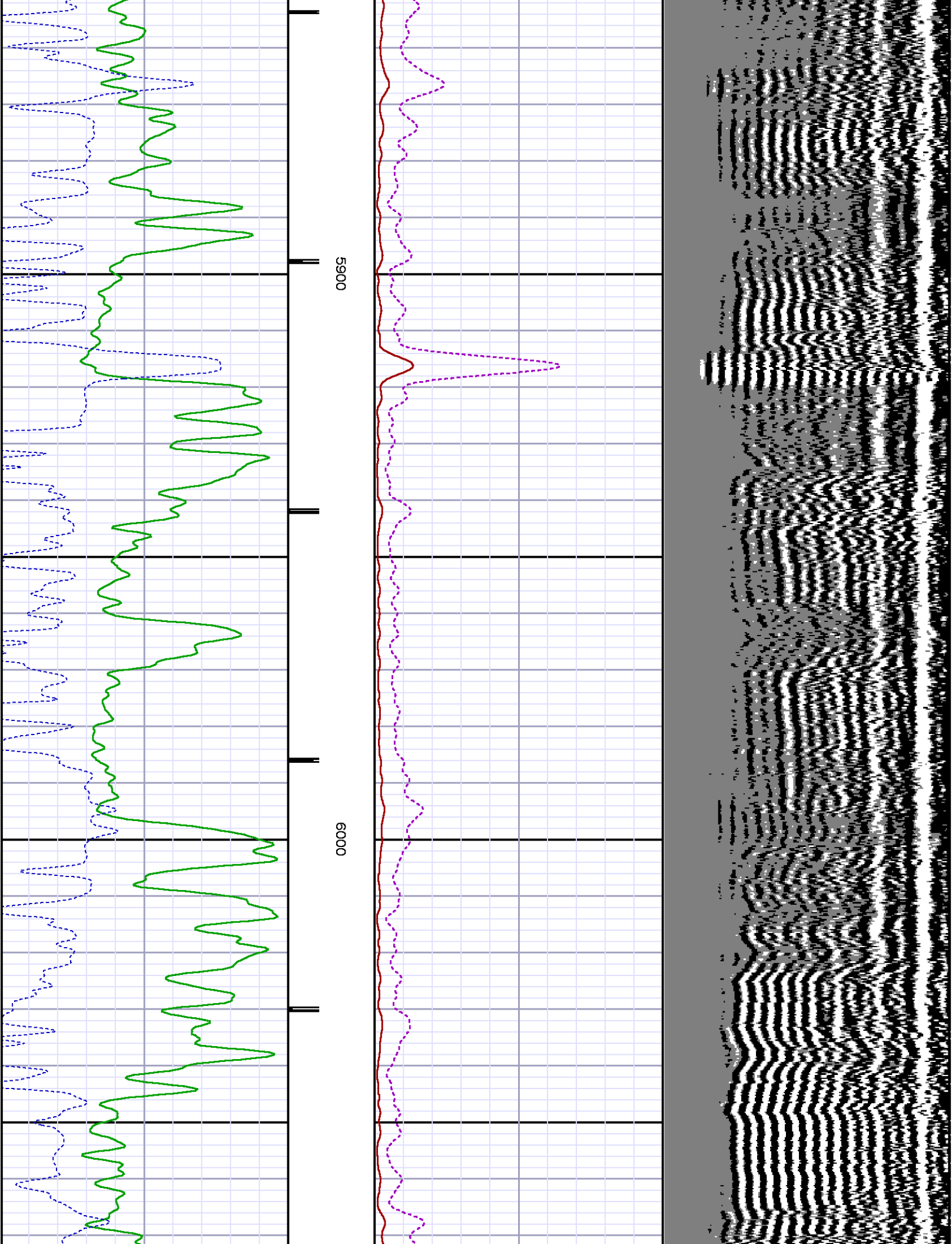


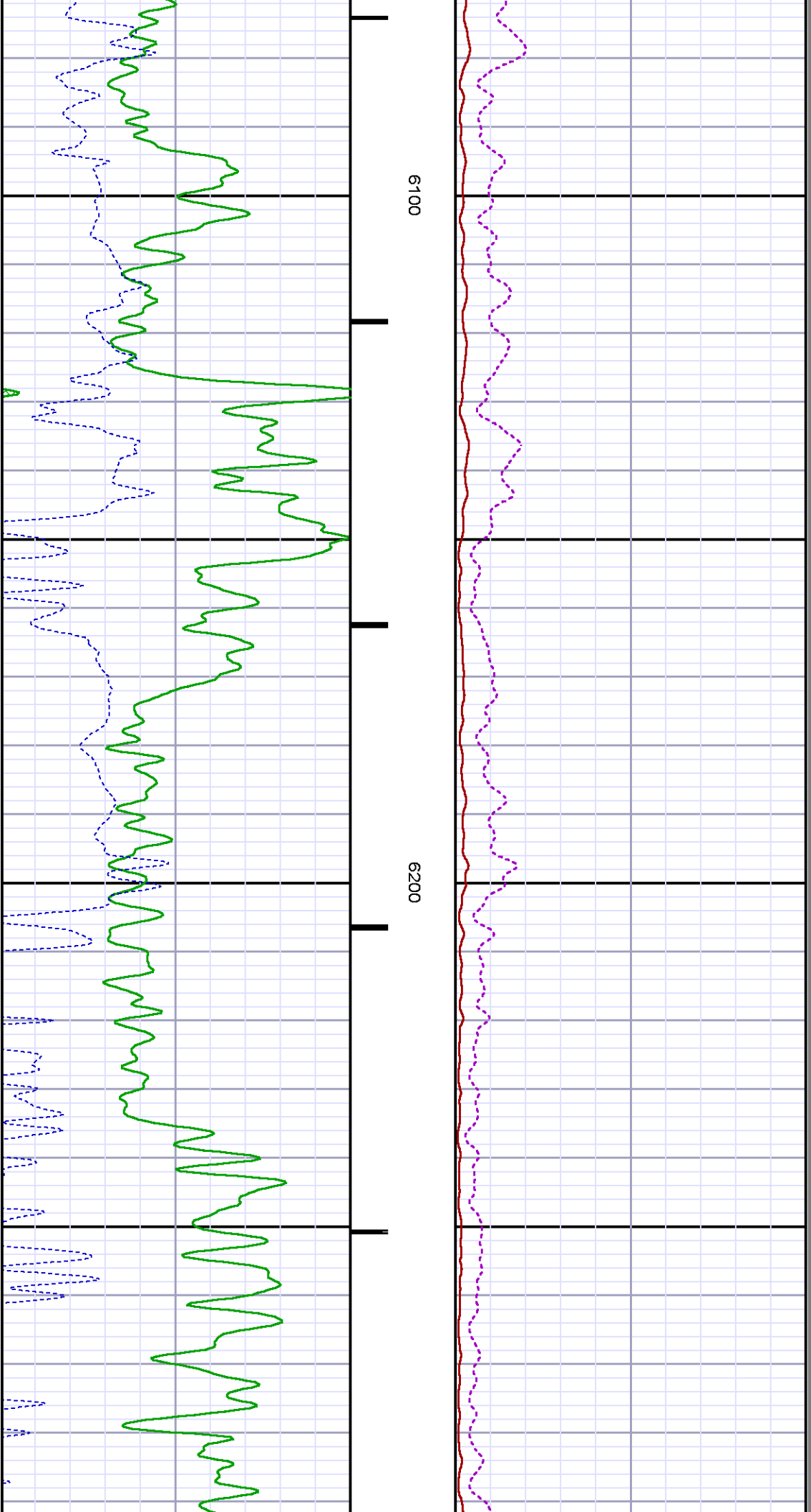
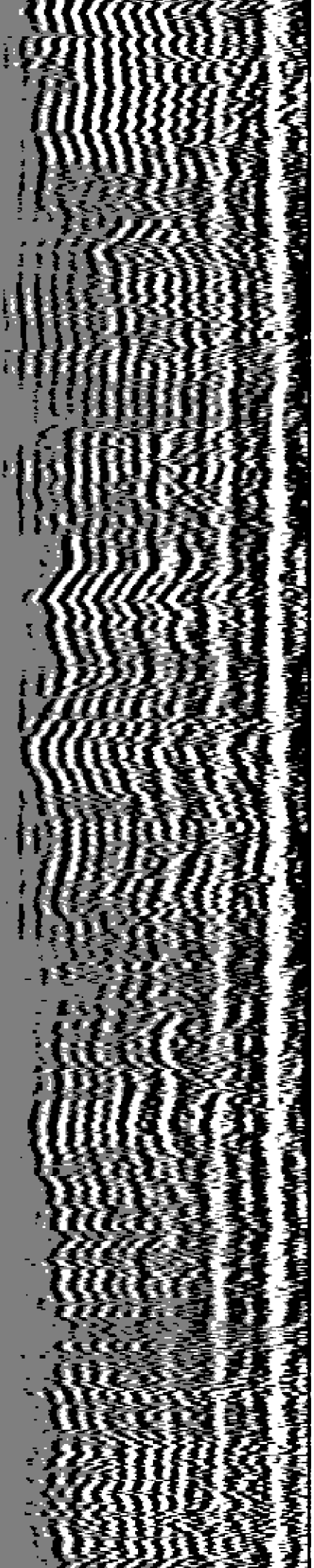


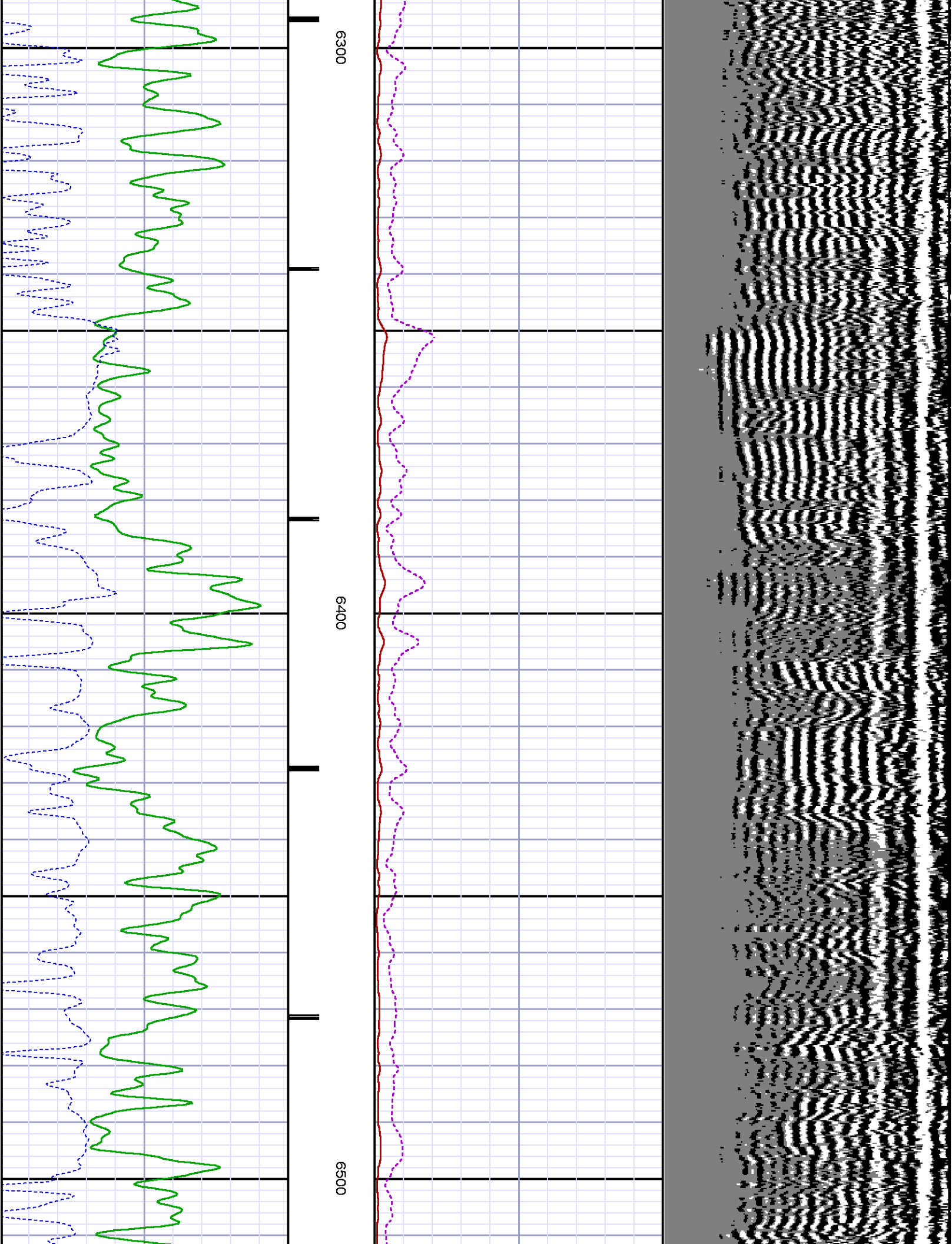


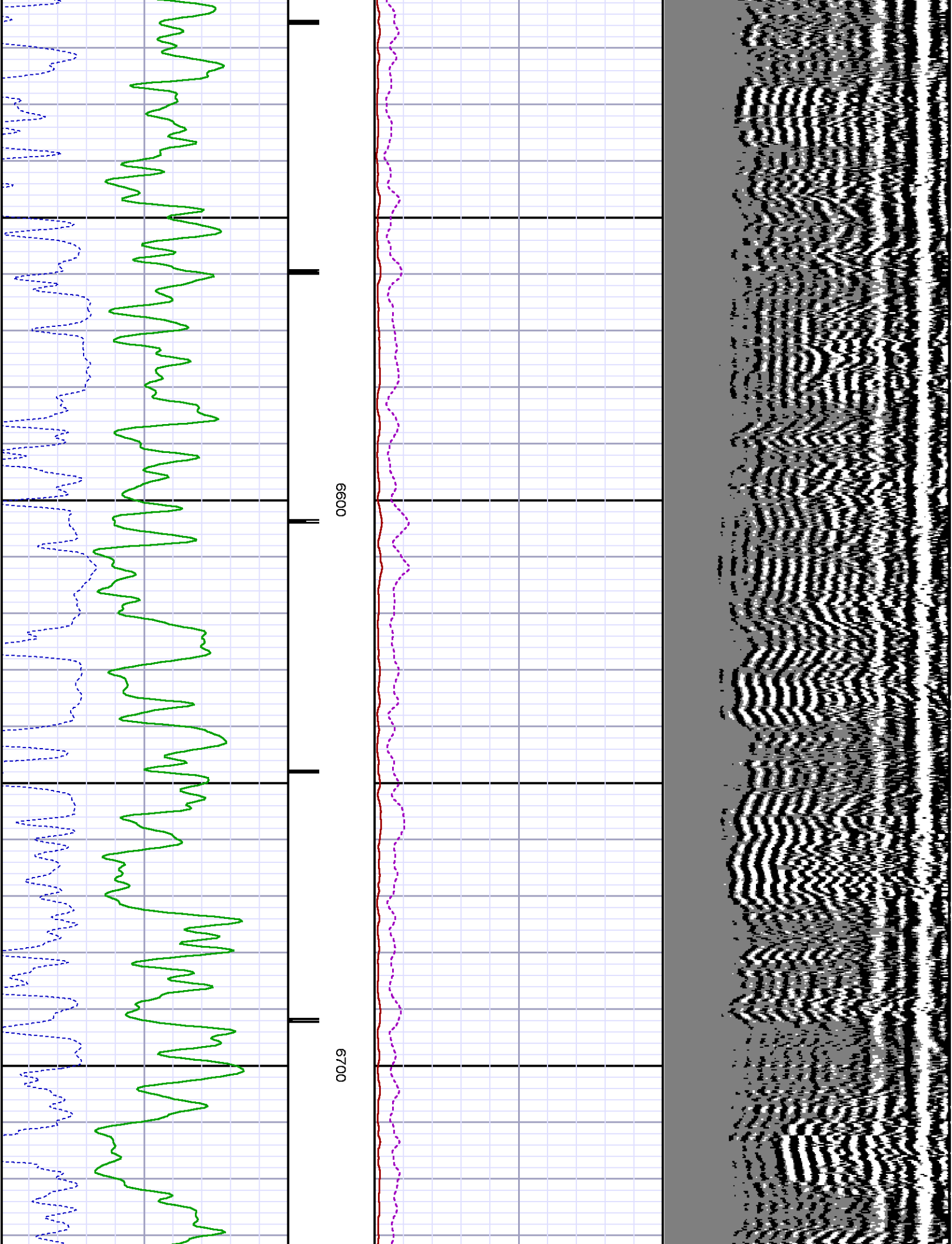


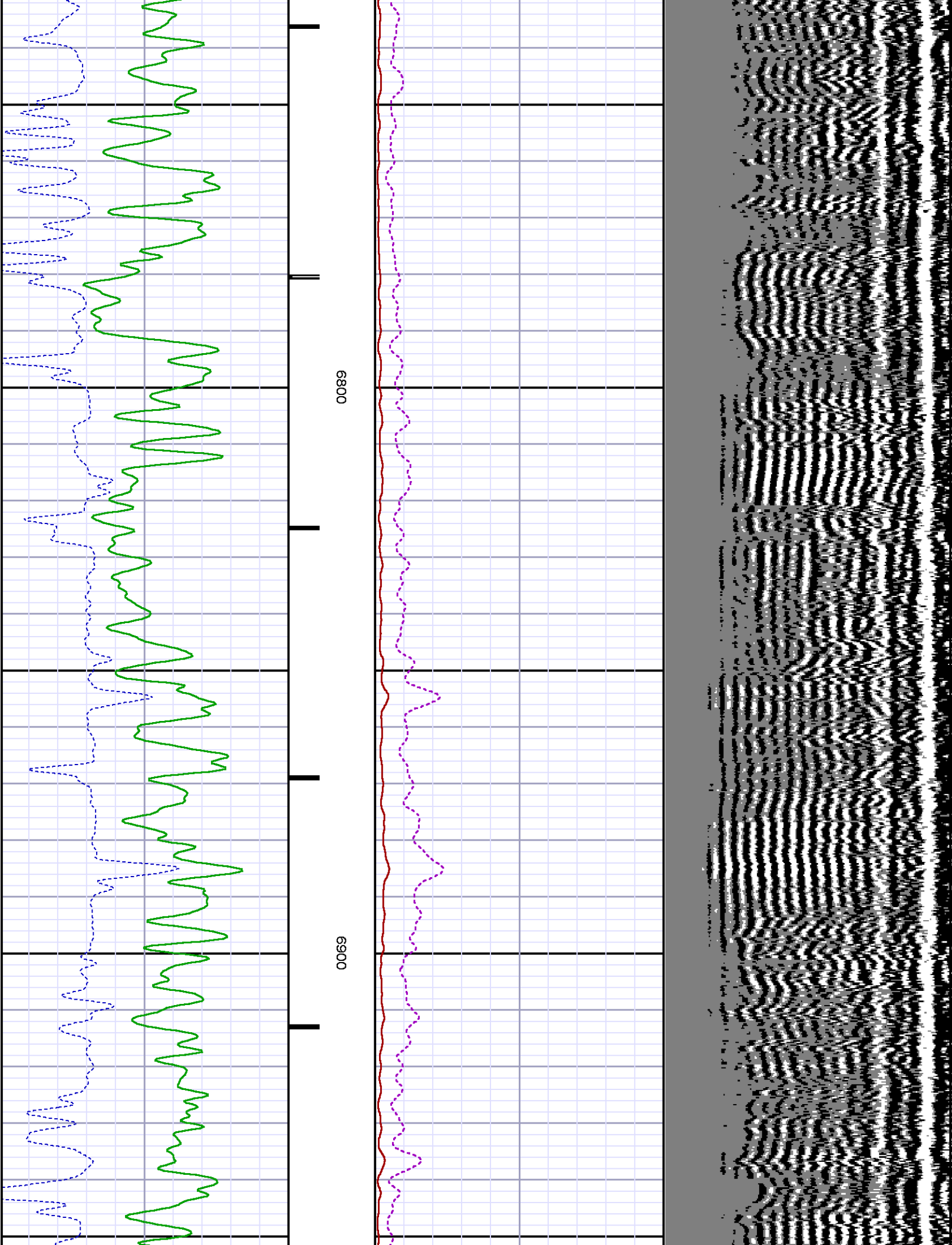


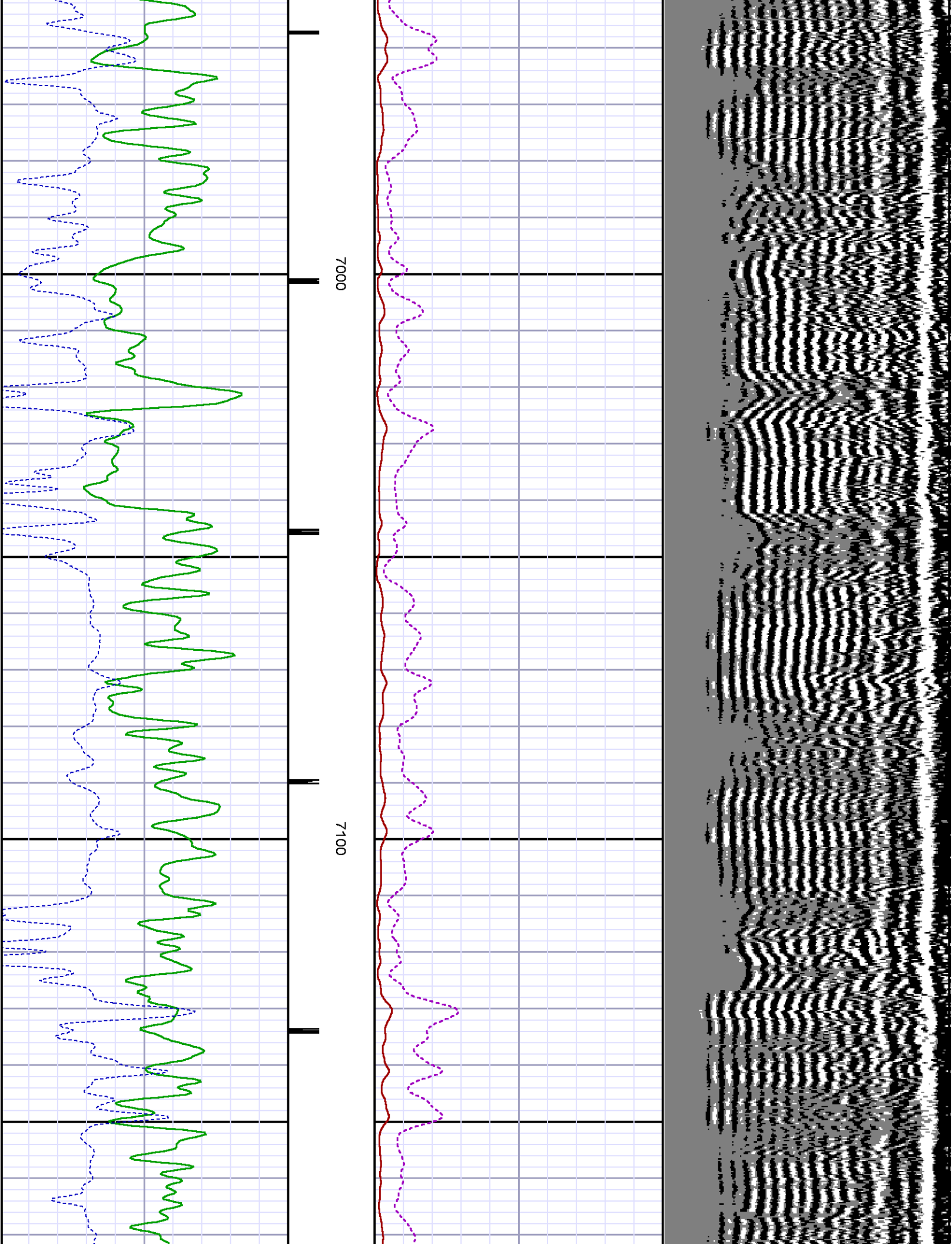


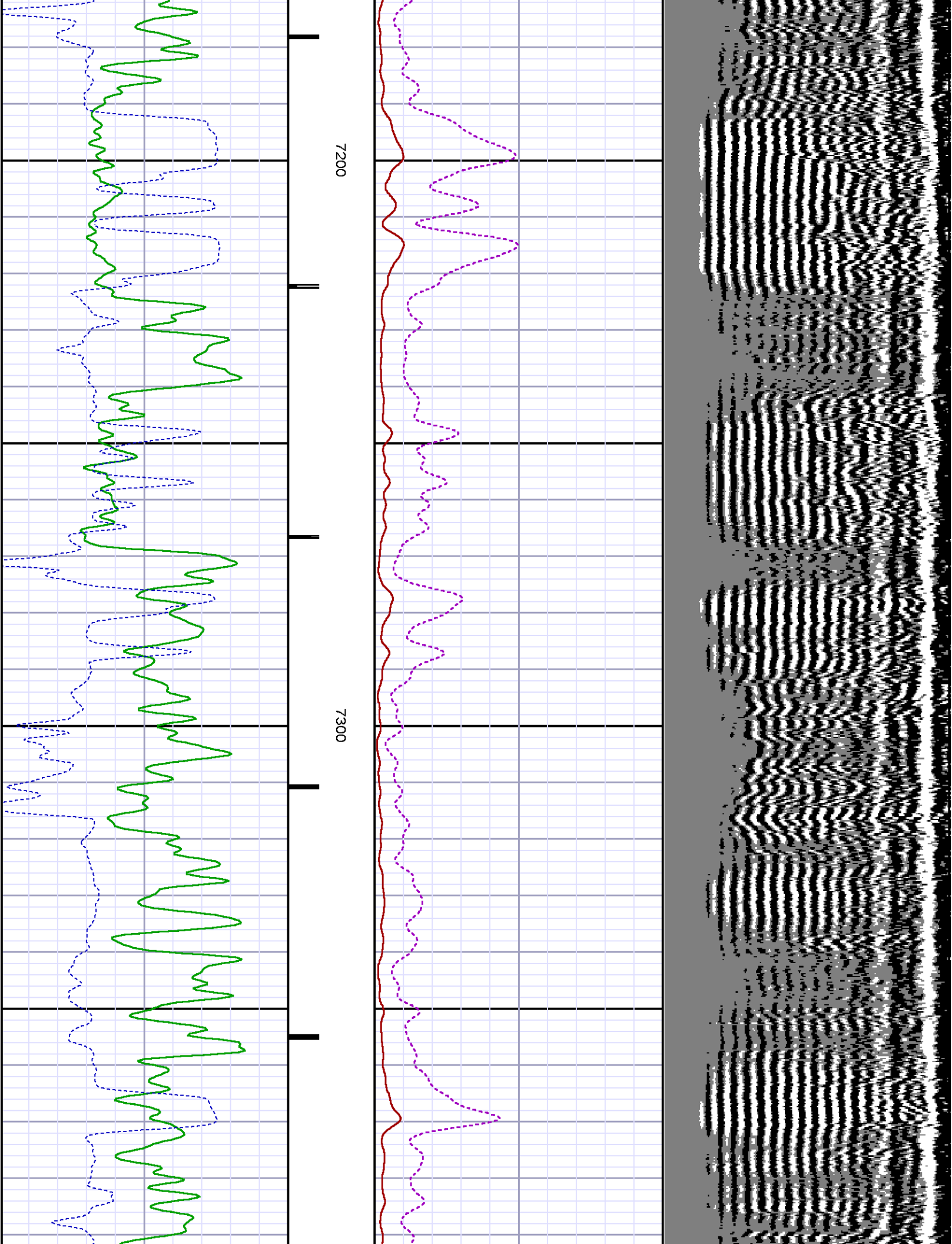


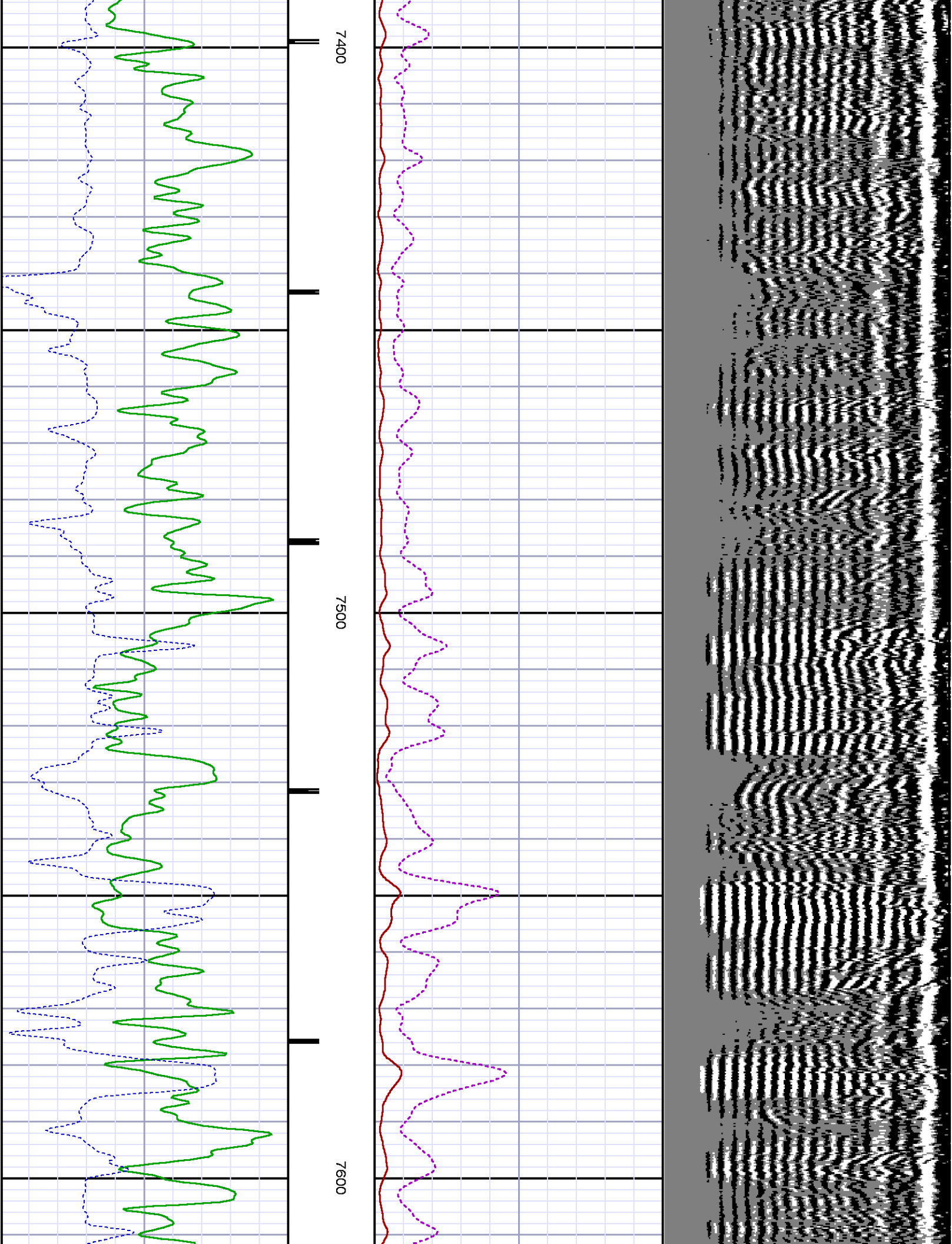


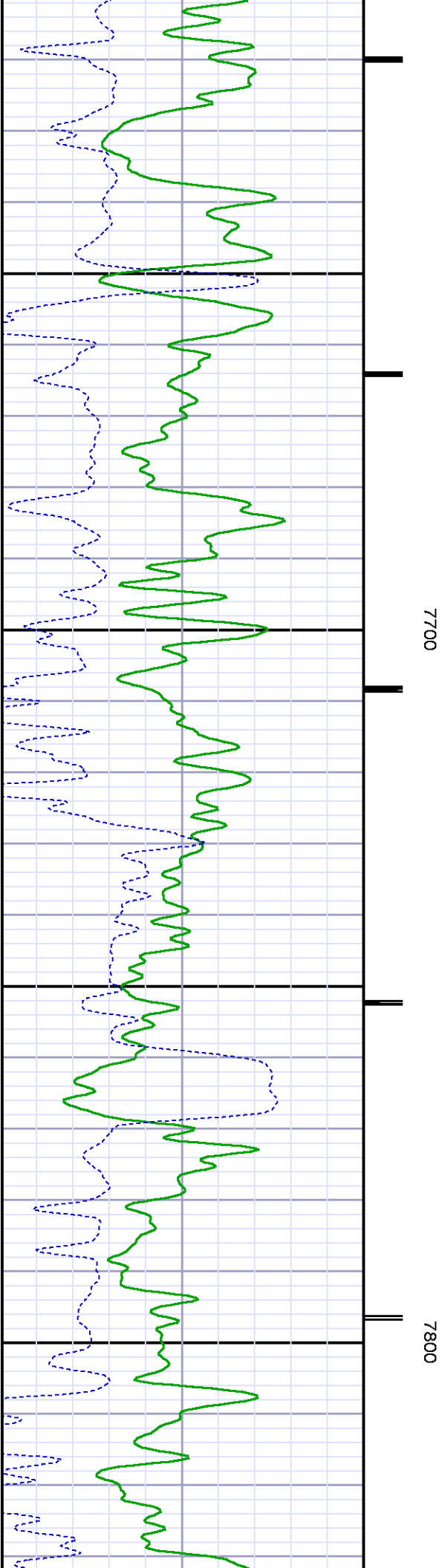
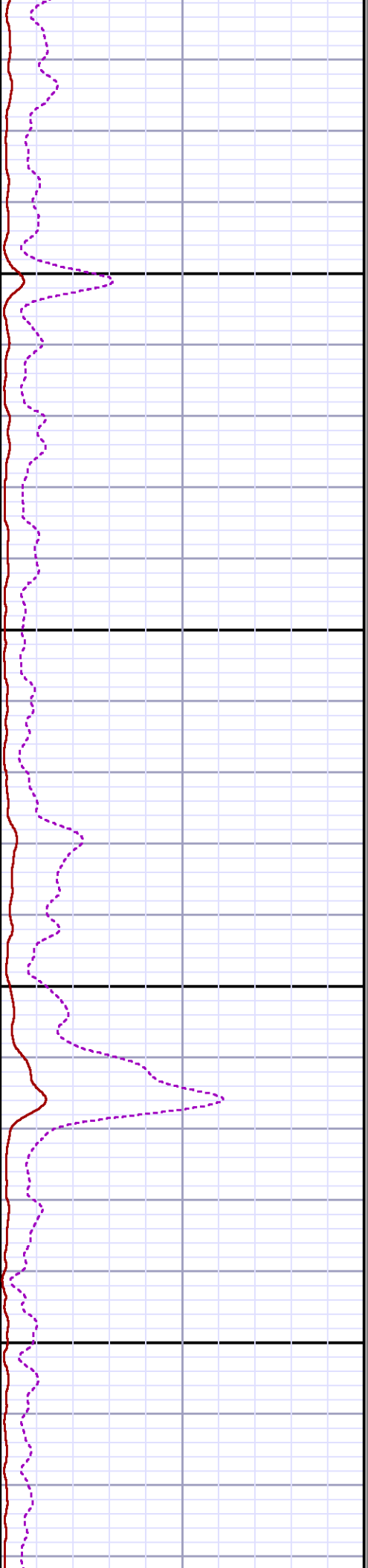
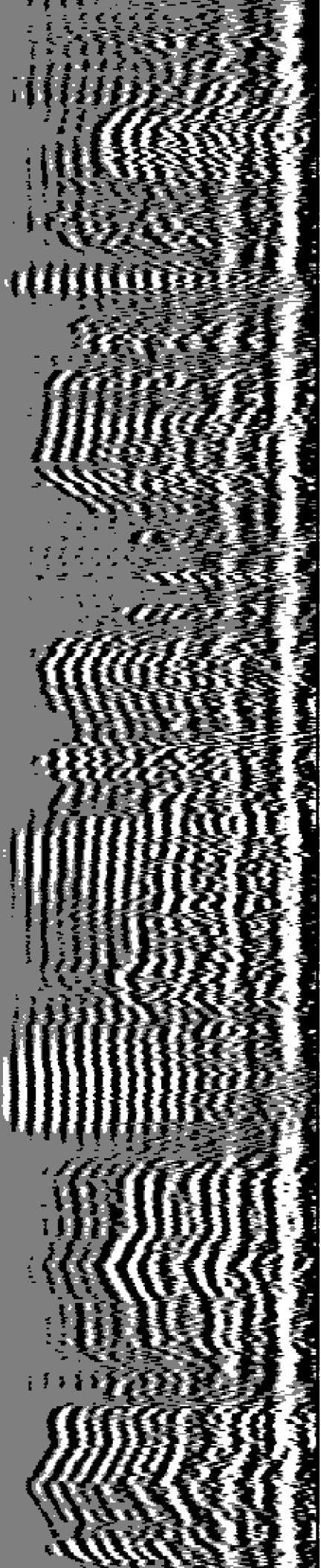


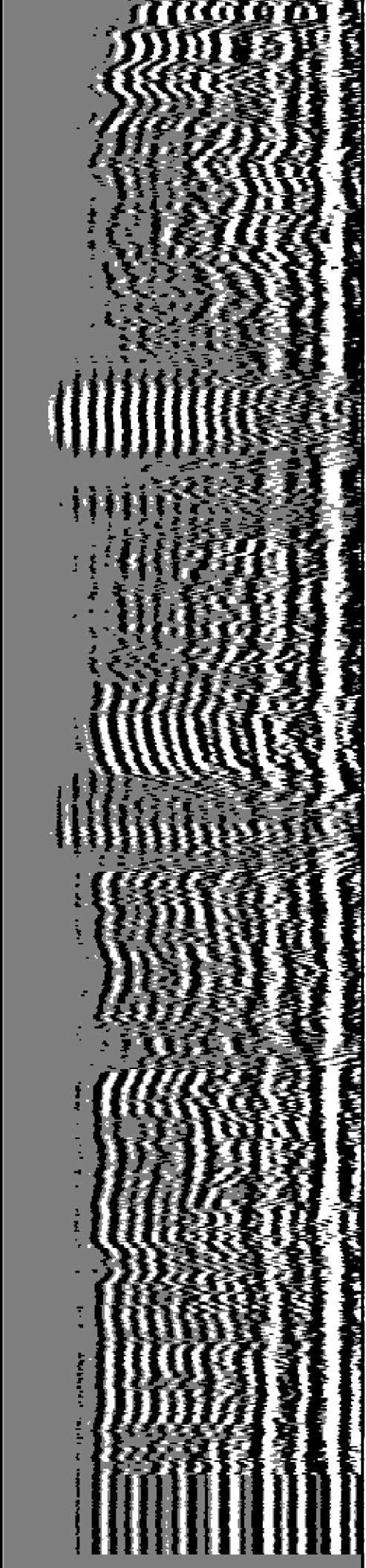
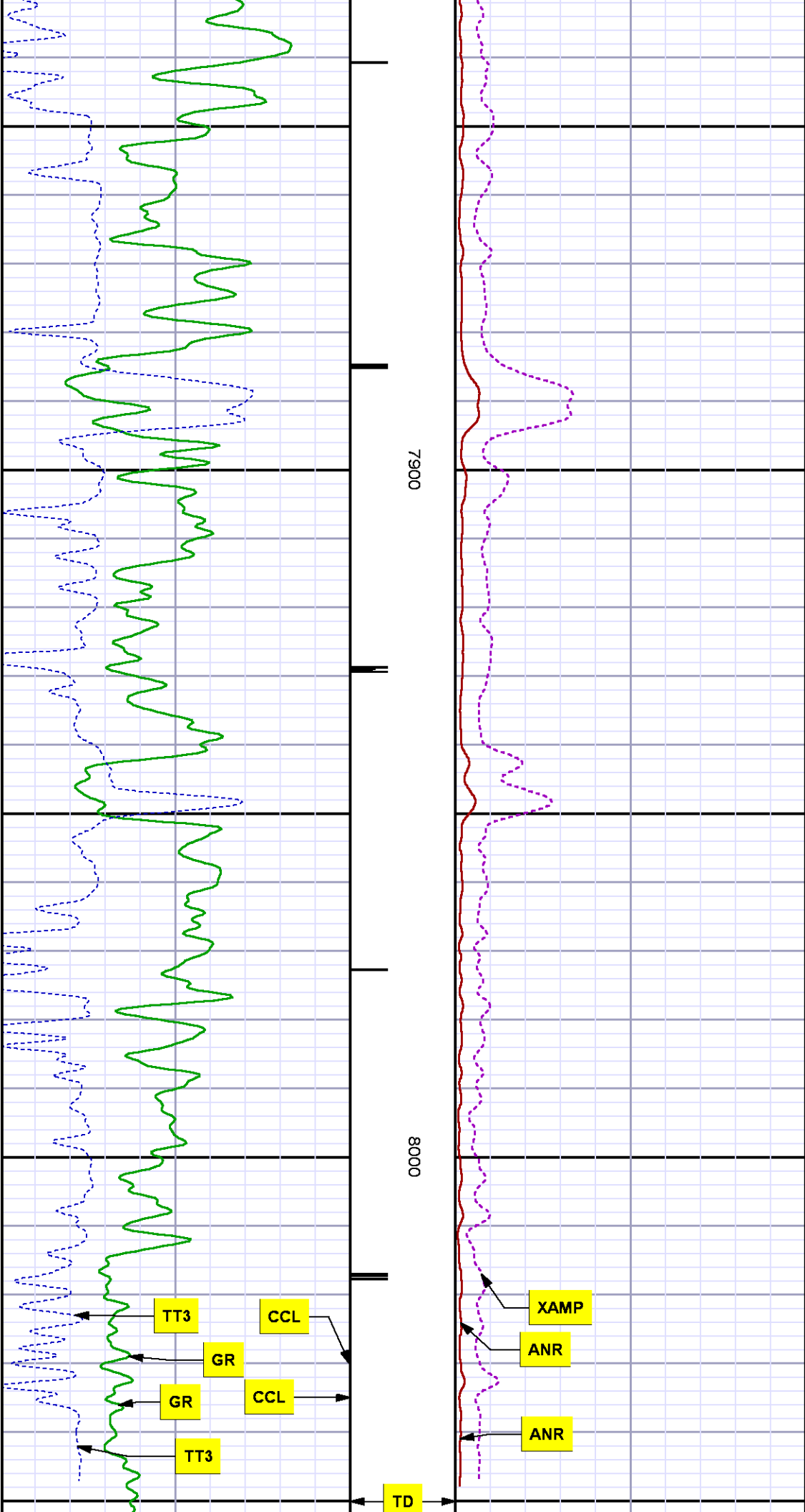


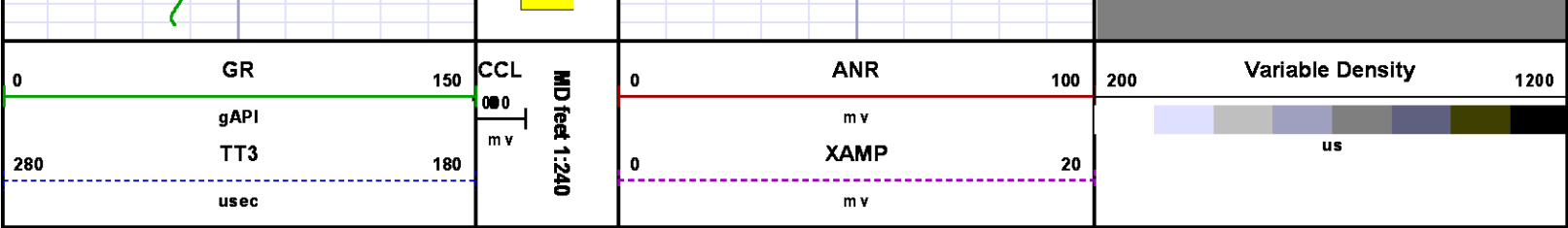












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	34.715	8067.000
RAL	Amp Gate Start Near	195.000	usec	34.715	8067.000
RAL	Amp Gate Start Radial	195.000	usec	34.715	8067.000
RAL	Amp Gate Width Far	25.000	usec	34.715	8067.000
RAL	Amp Gate Width Near	25.000	usec	34.715	8067.000
RAL	Amp Gate Width Radial	25.000	usec	34.715	8067.000
RAL	casing od	4.500	inches	34.715	8067.000
RAL	casing wt	11.600	lbm/ft	34.715	8067.000
RAL	FB Start Far	291.900	usec	34.715	8067.000
RAL	FB Start Near	180.000	usec	34.715	8067.000
RAL	FB Start Radial	180.000	usec	34.715	8067.000
RAL	FB Thresh Far	10.000	mv	34.715	8067.000
RAL	FB Thresh Near	4.000	mv	34.715	8067.000
RAL	FB Thresh Radial	4.000	mv	34.715	8067.000
RAL	Fluid Travel Time	200.000	usec/ft	34.715	8066.367

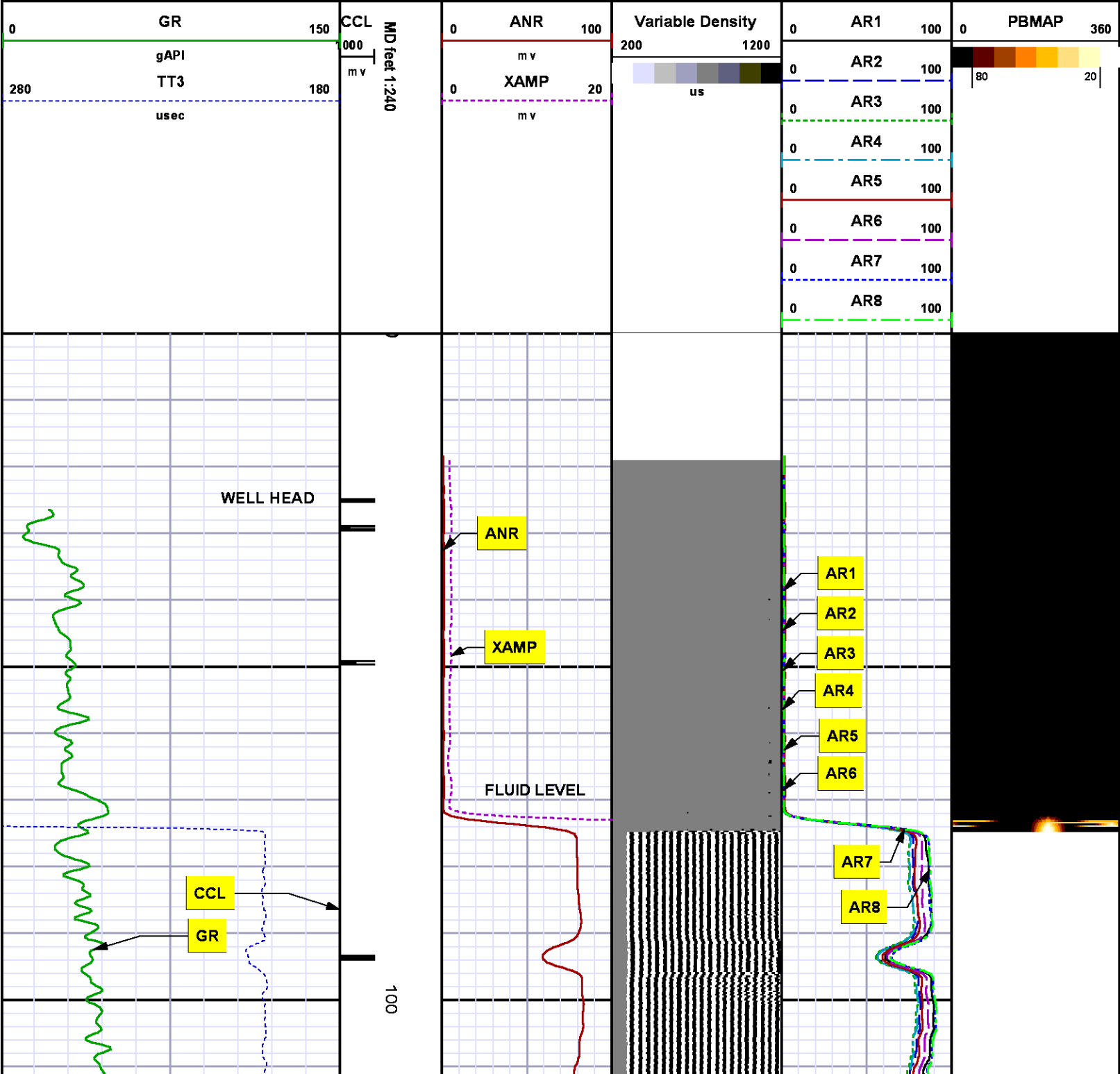
DEPTH OFFSETS

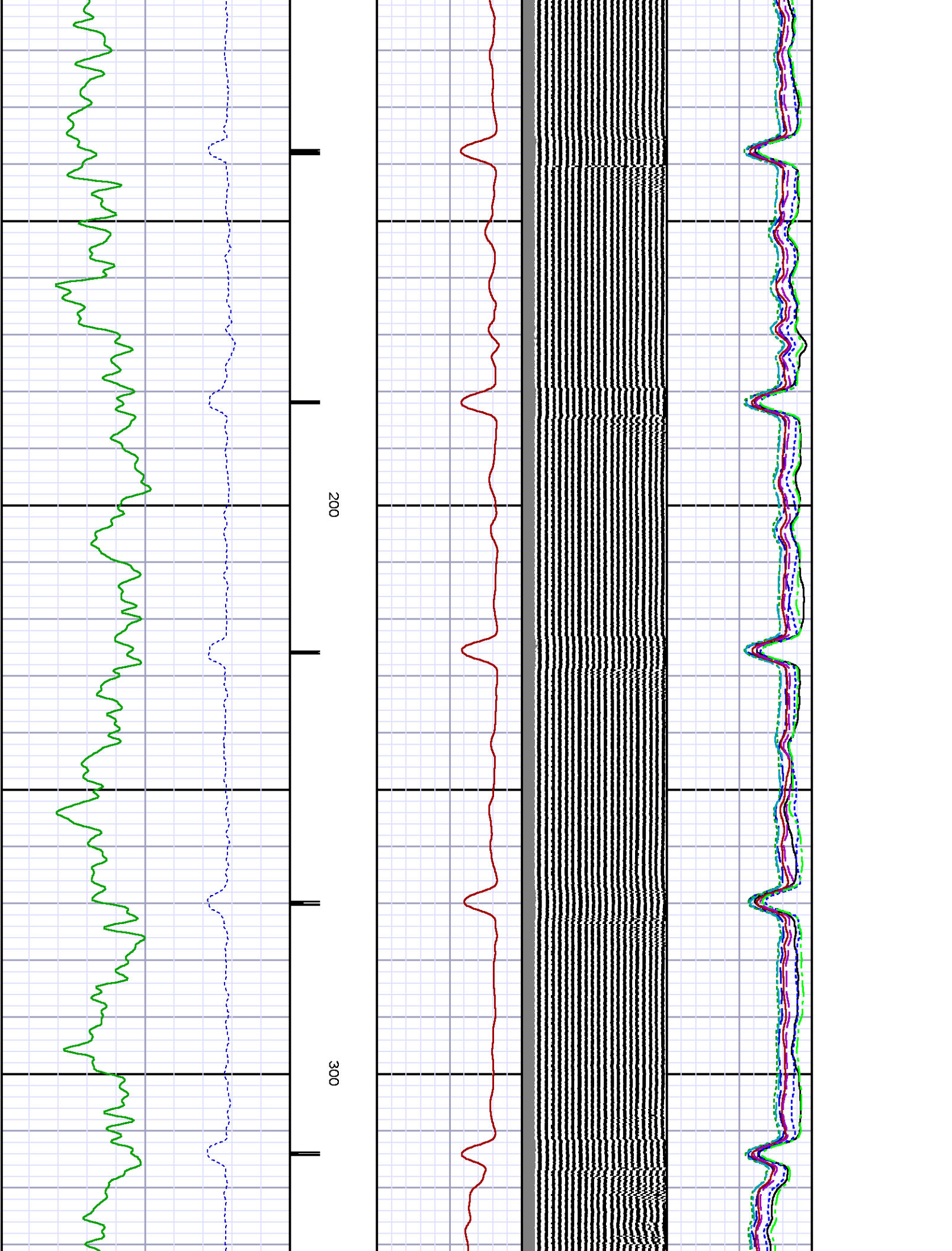
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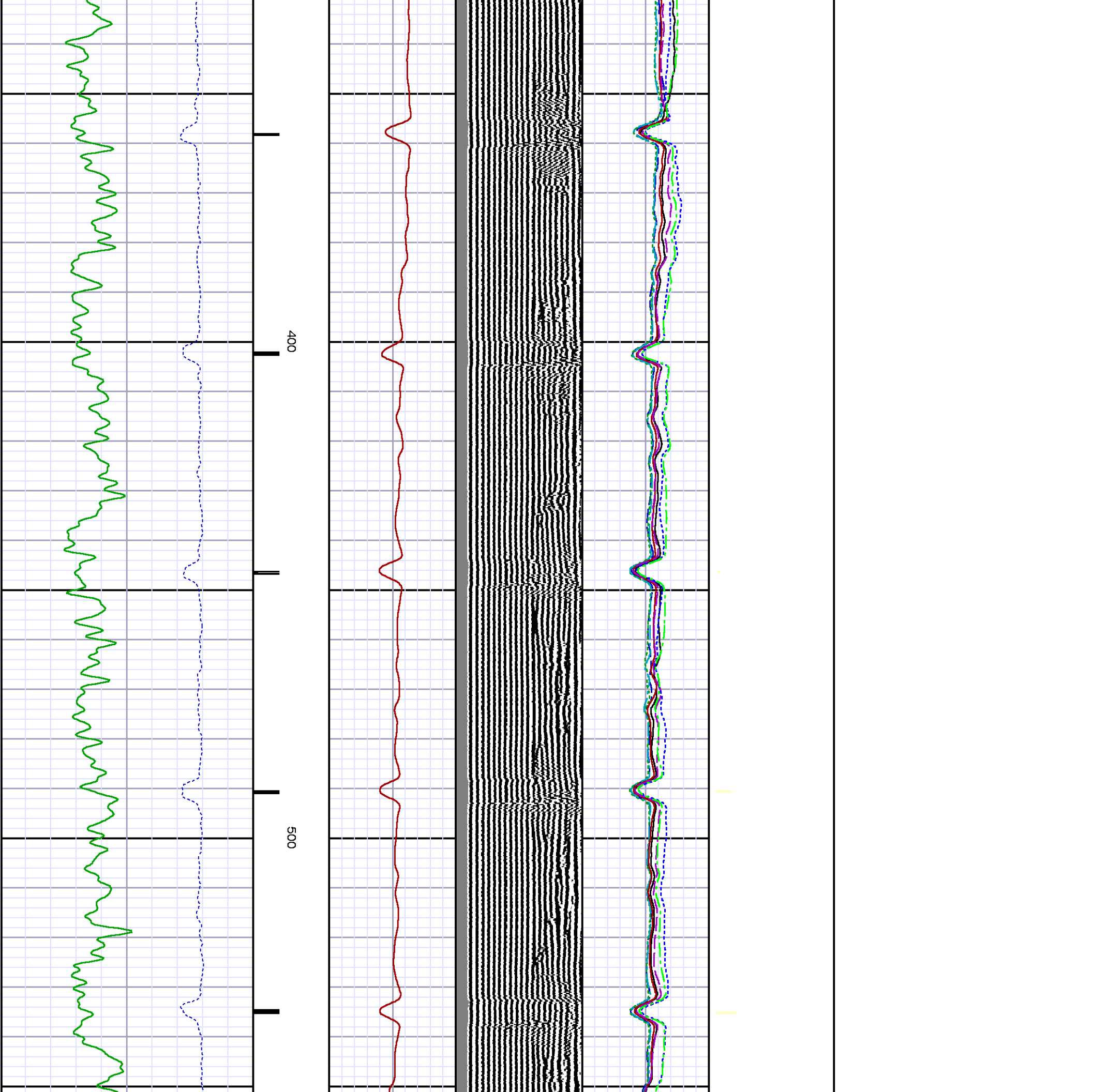
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
		AFAR	SIG	TT5			
1426XA	-15.750						

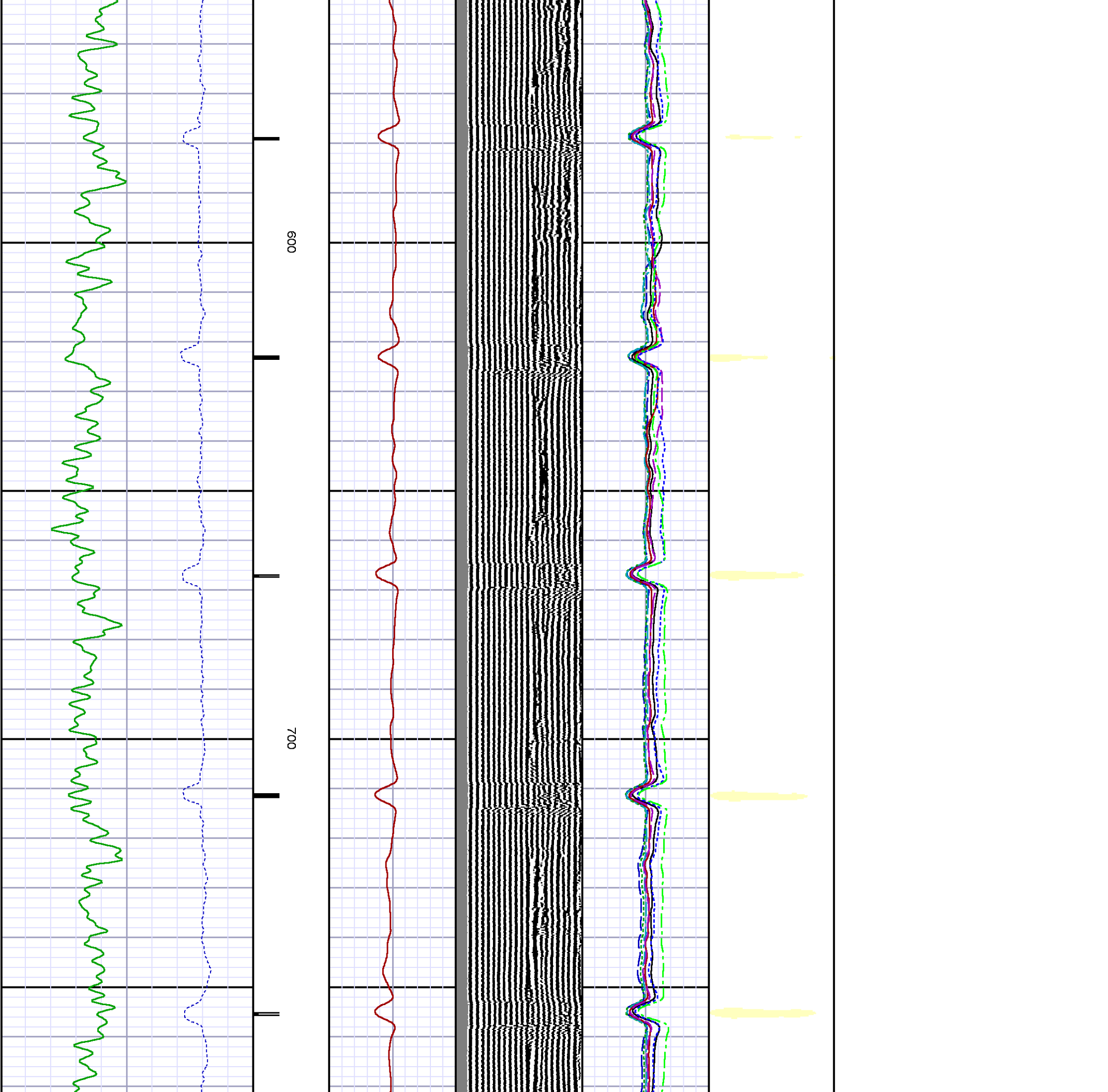
2459XA	-11.340	CCL
2459XA	-9.490	GR
2459XA	-4.090	NEU

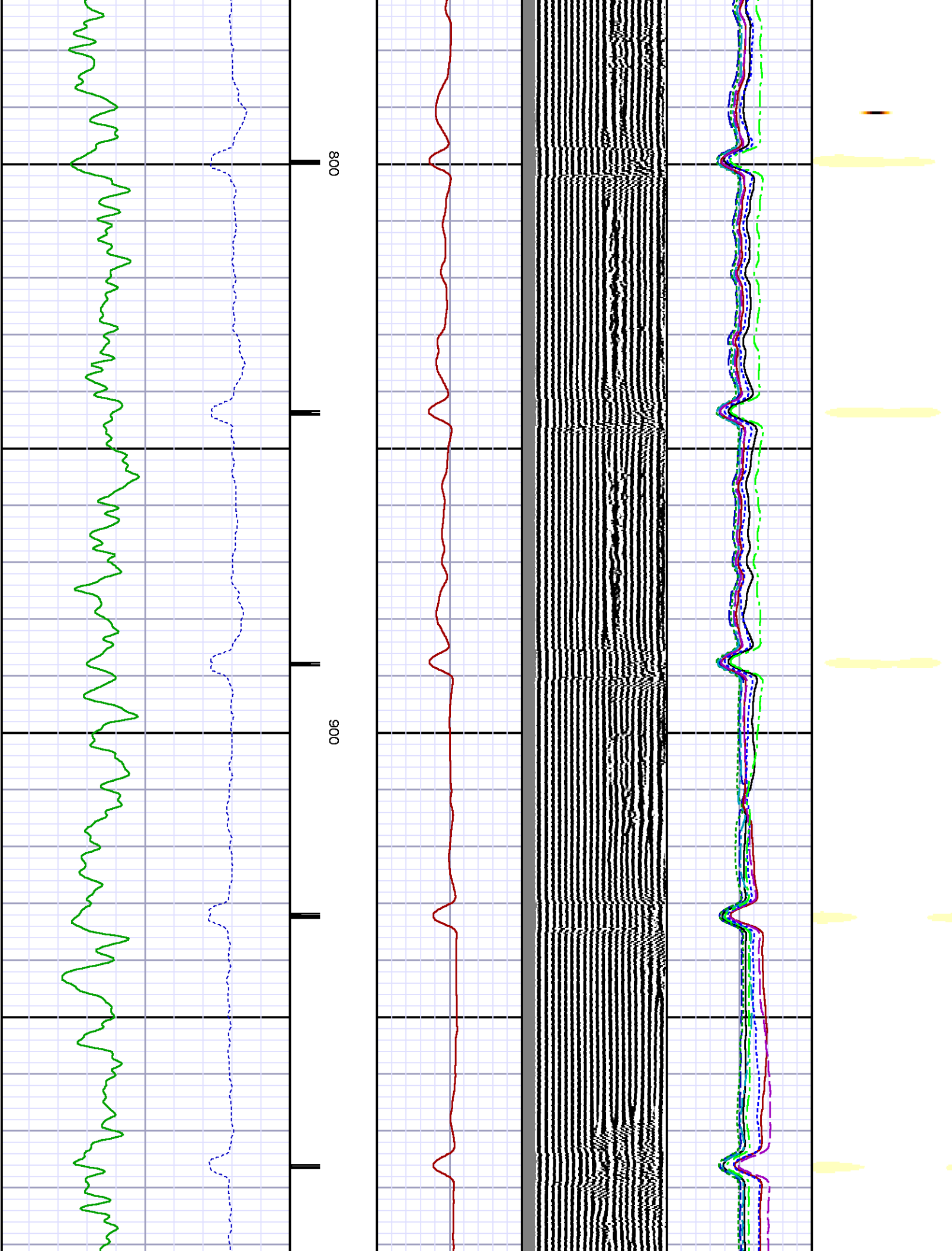
Created by : RAL, v4.8.008
Plotted by : PlotMgr, v5.4.504
Company : WPX ENERGY
Well : GOLDSBOROUGH PA 511-11
File Name : d:\welldata\wpx energy\pa 511-11\ral511\main.xtf
Mode : PlotMgr 5.4.504
Interval : 0.00 - 8056.00 feet UP
Created : 5/3/2013 6:07:05 PM

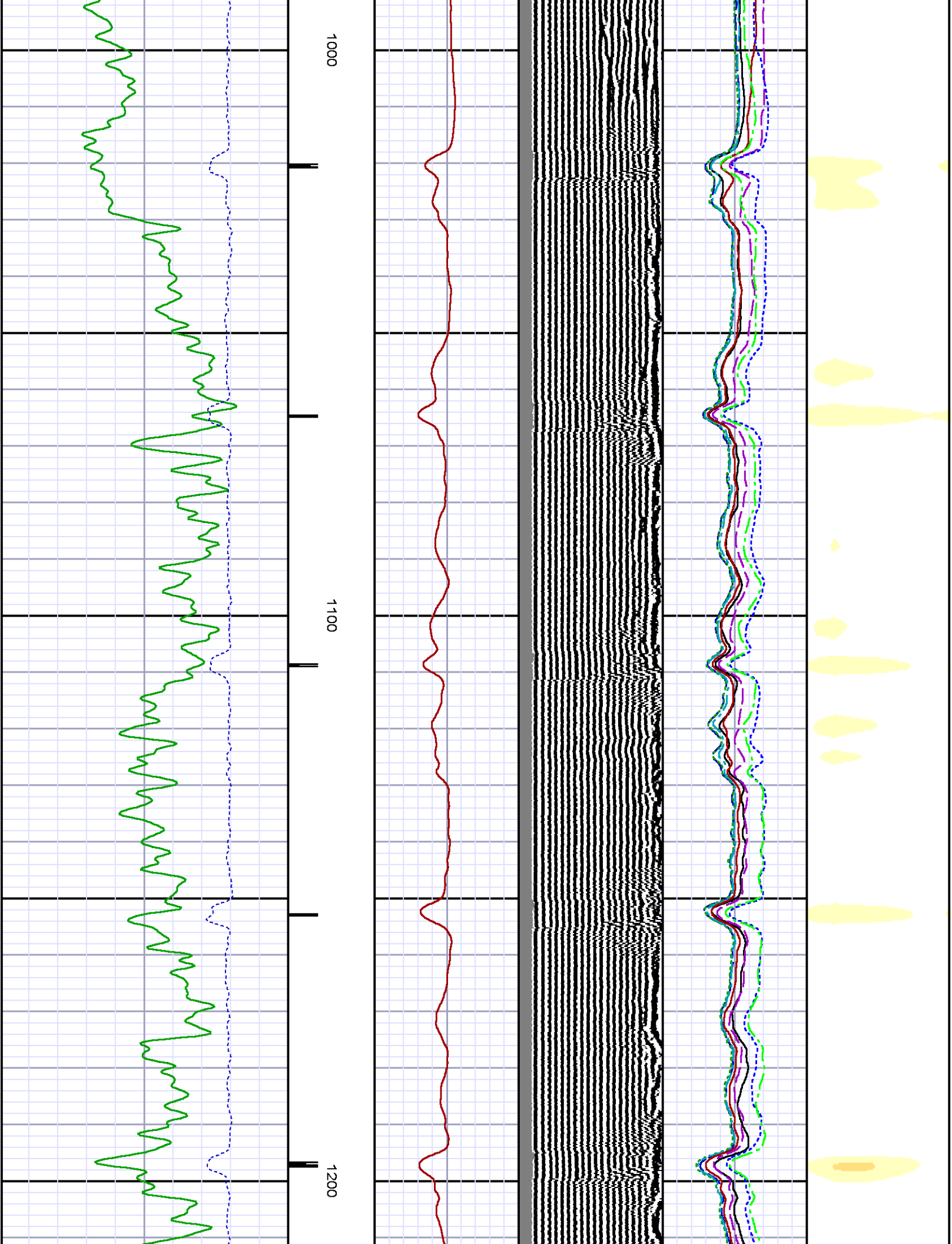


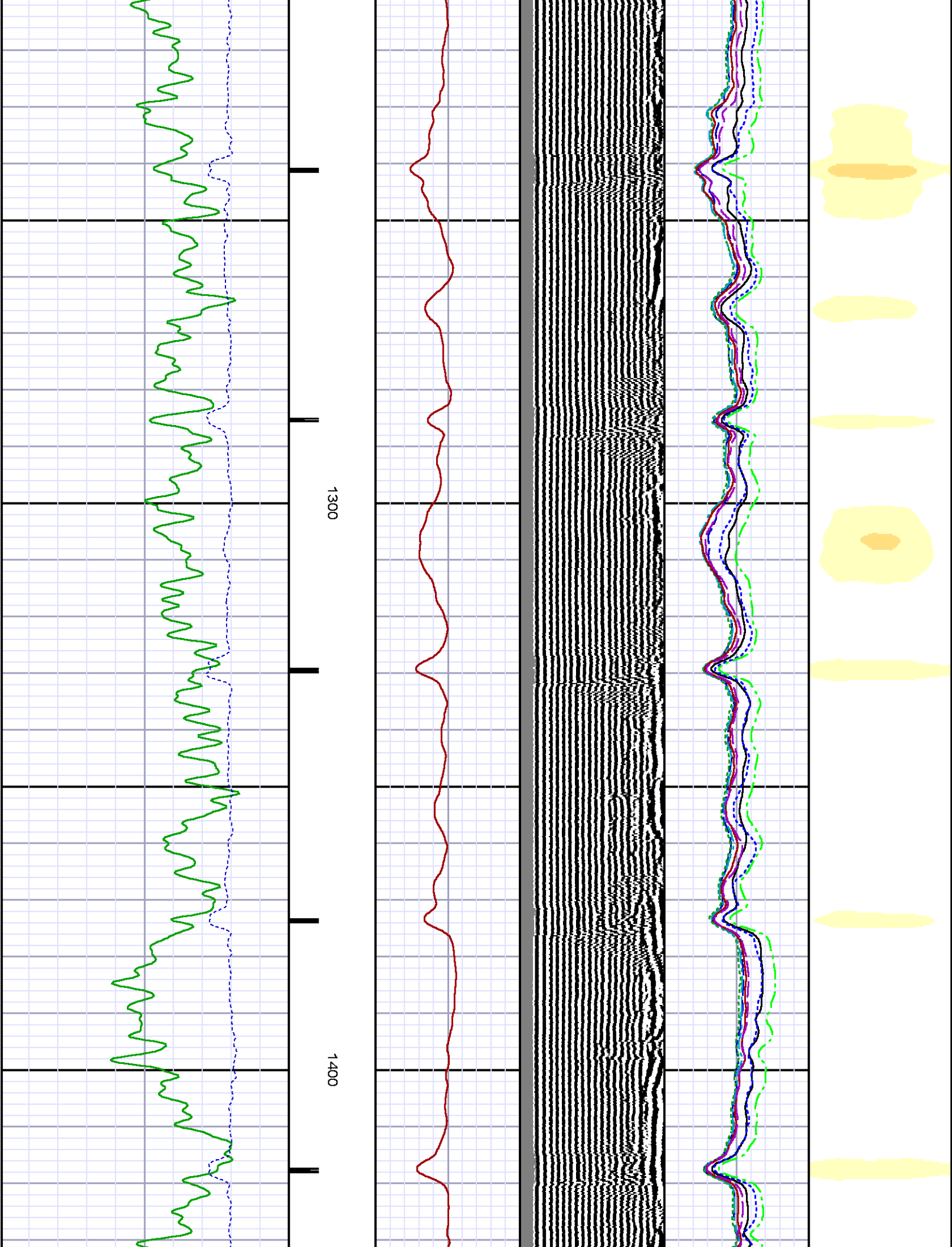


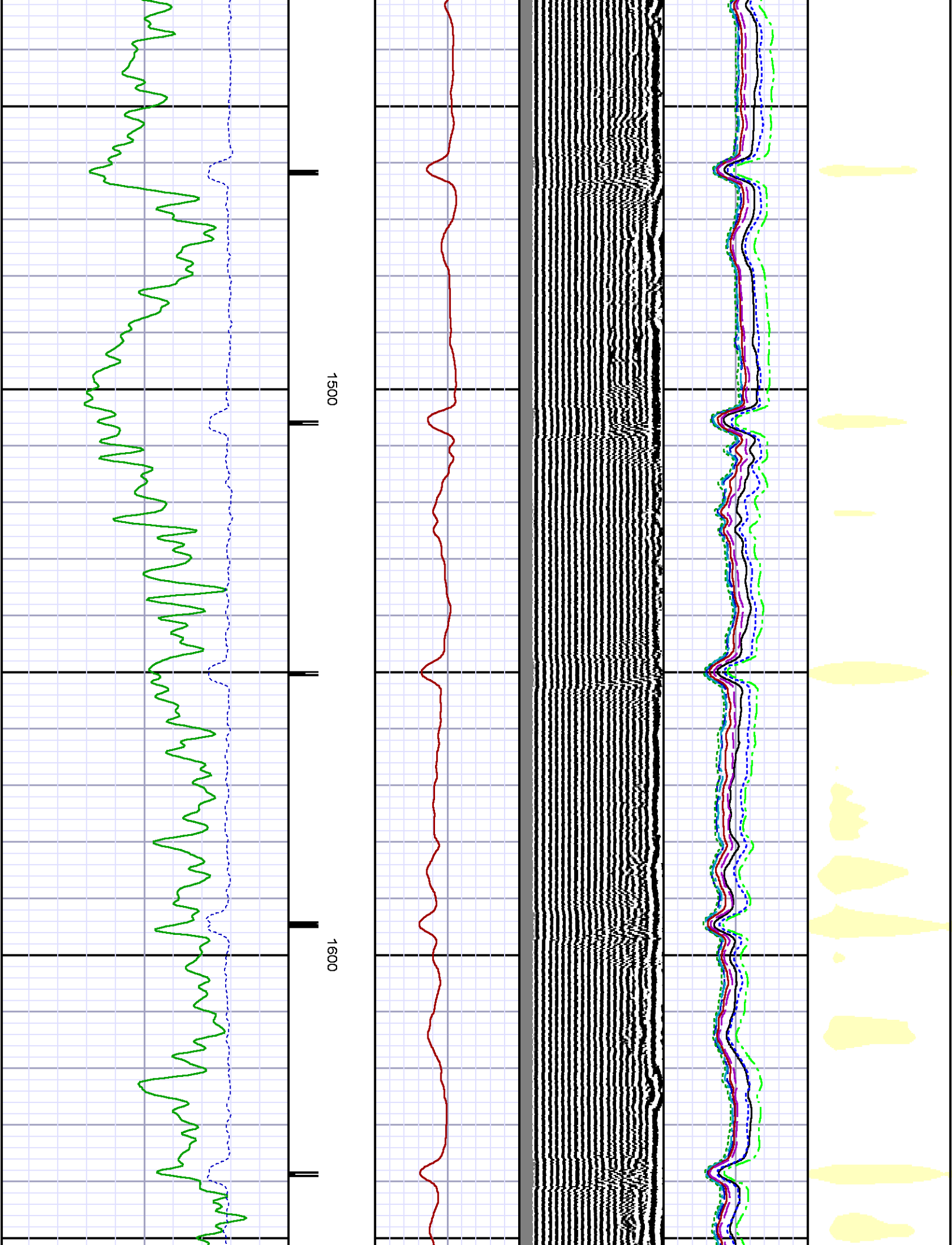


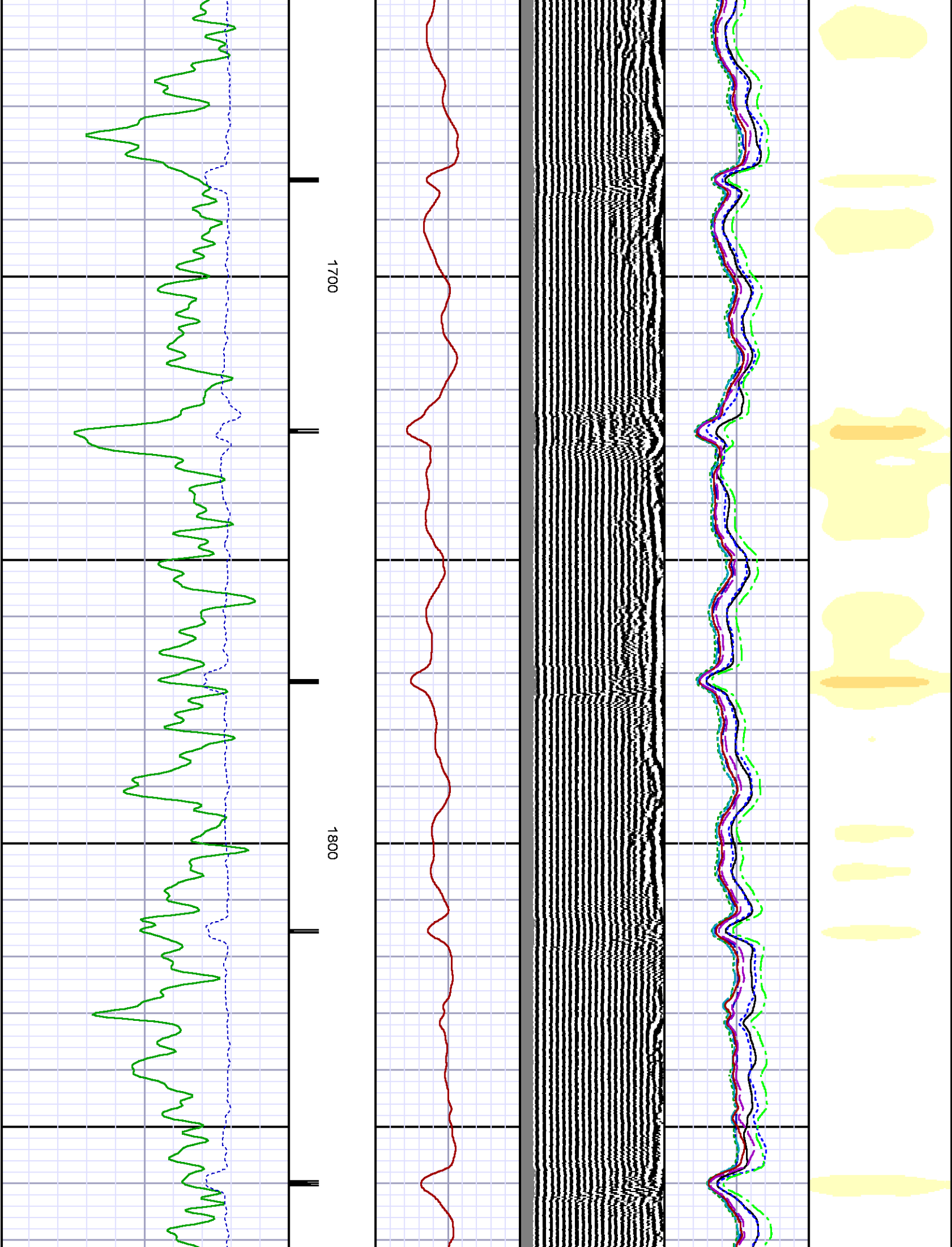


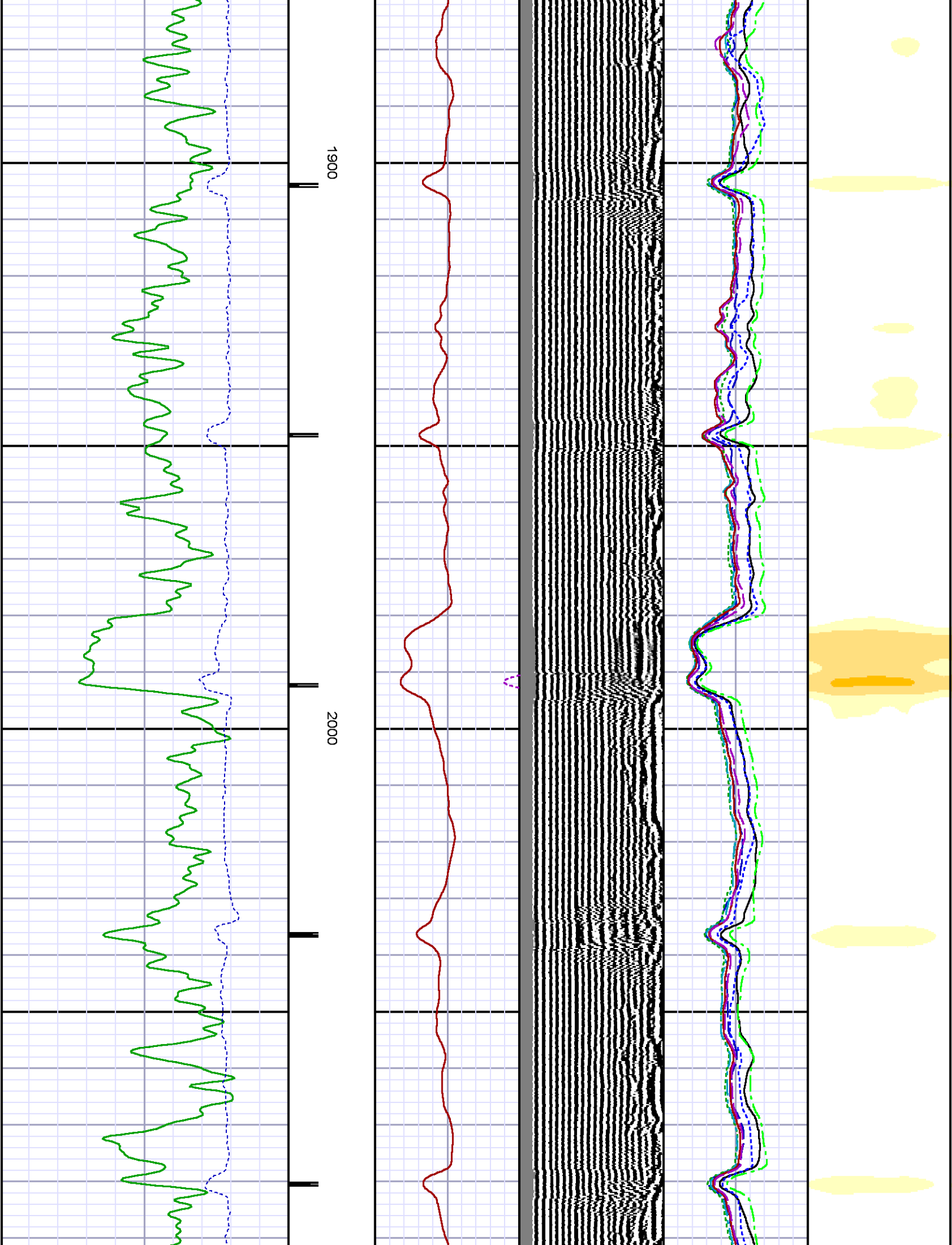


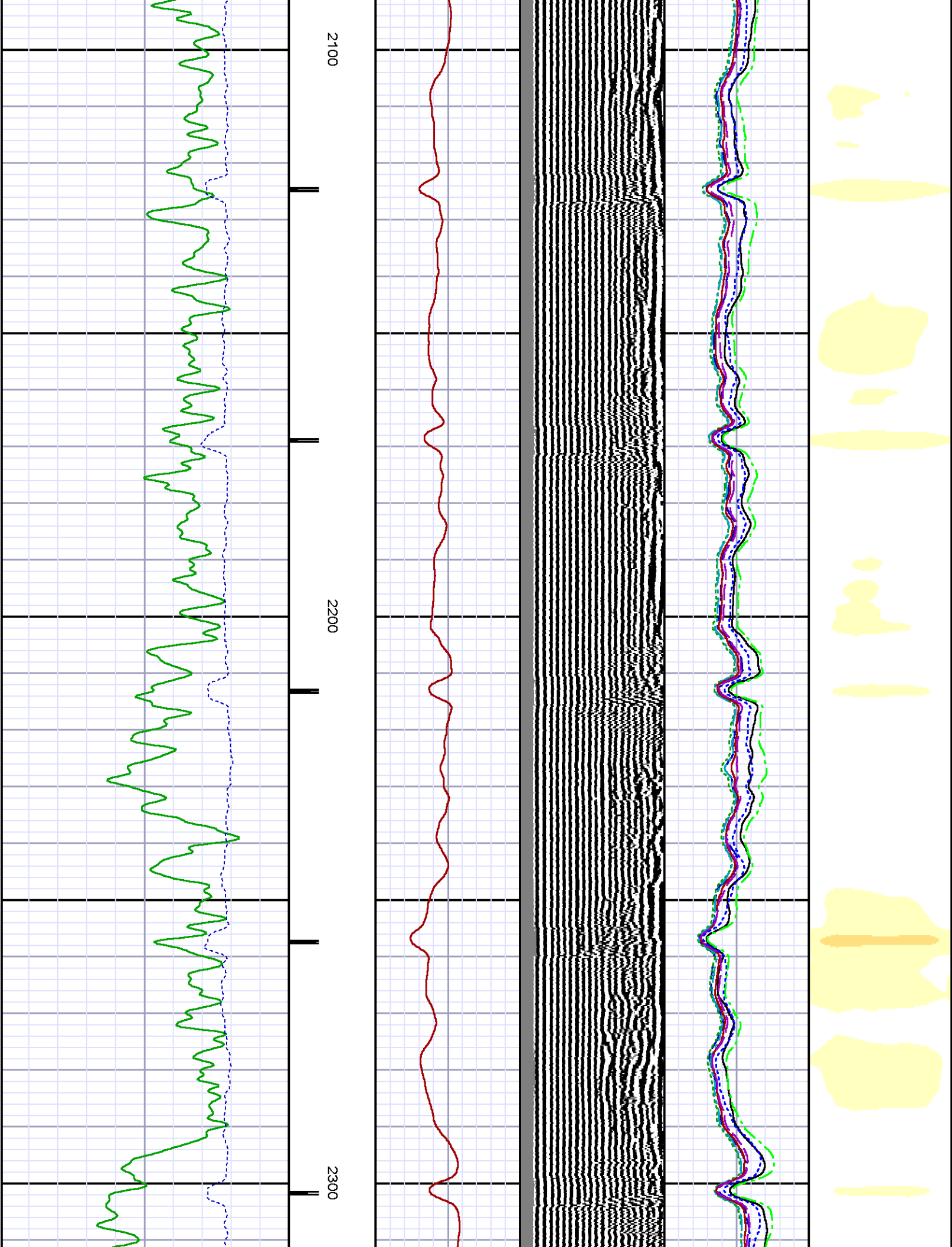


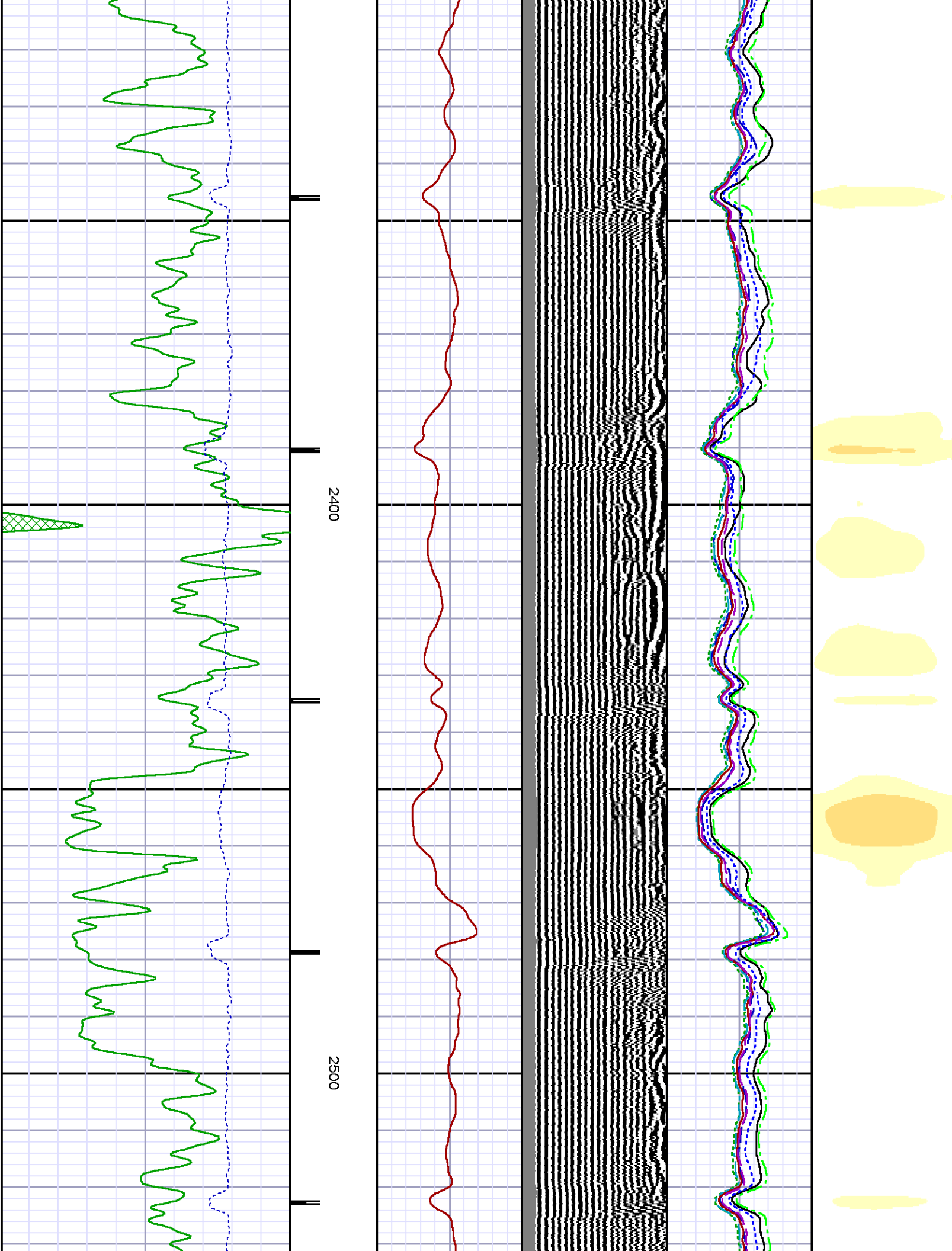


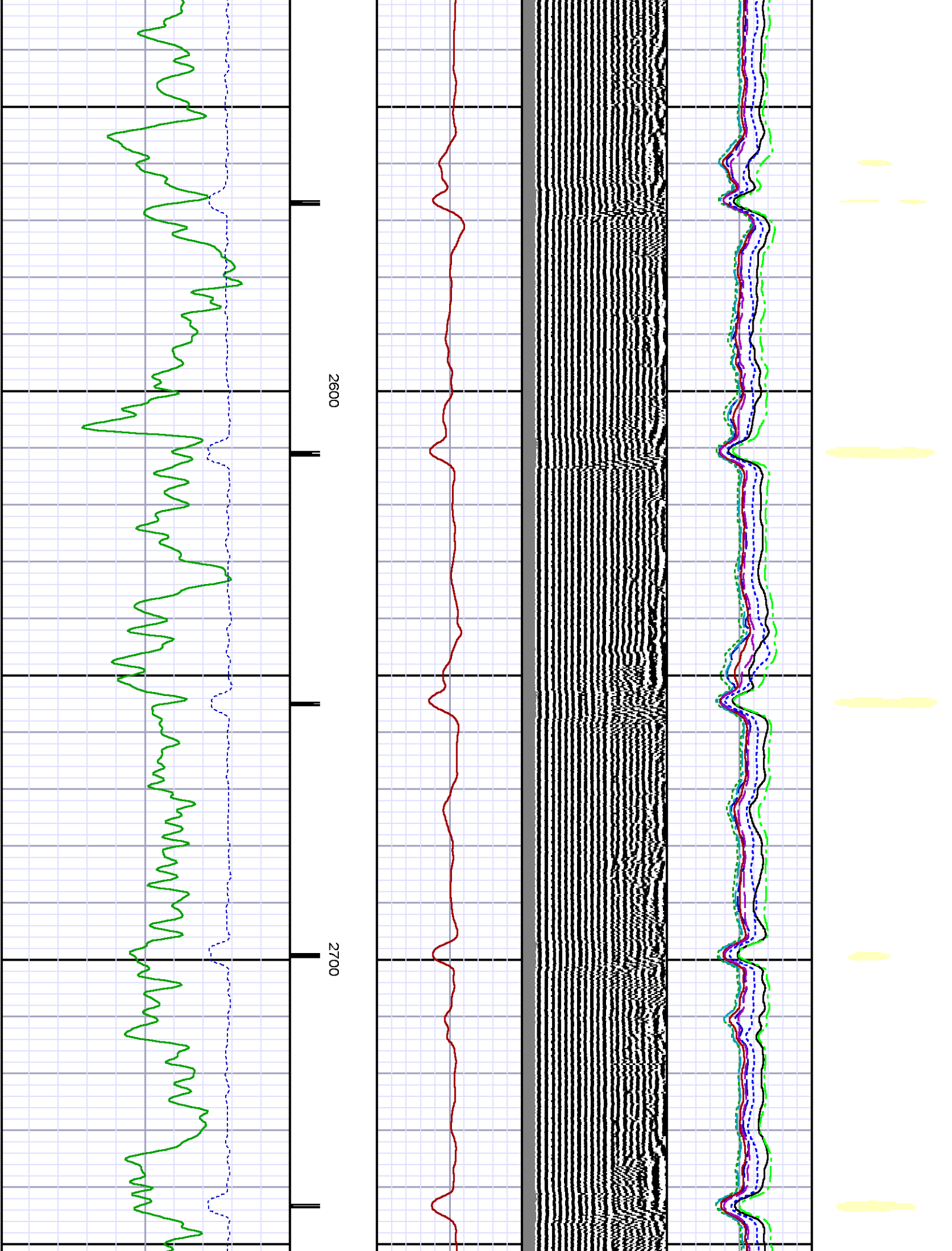


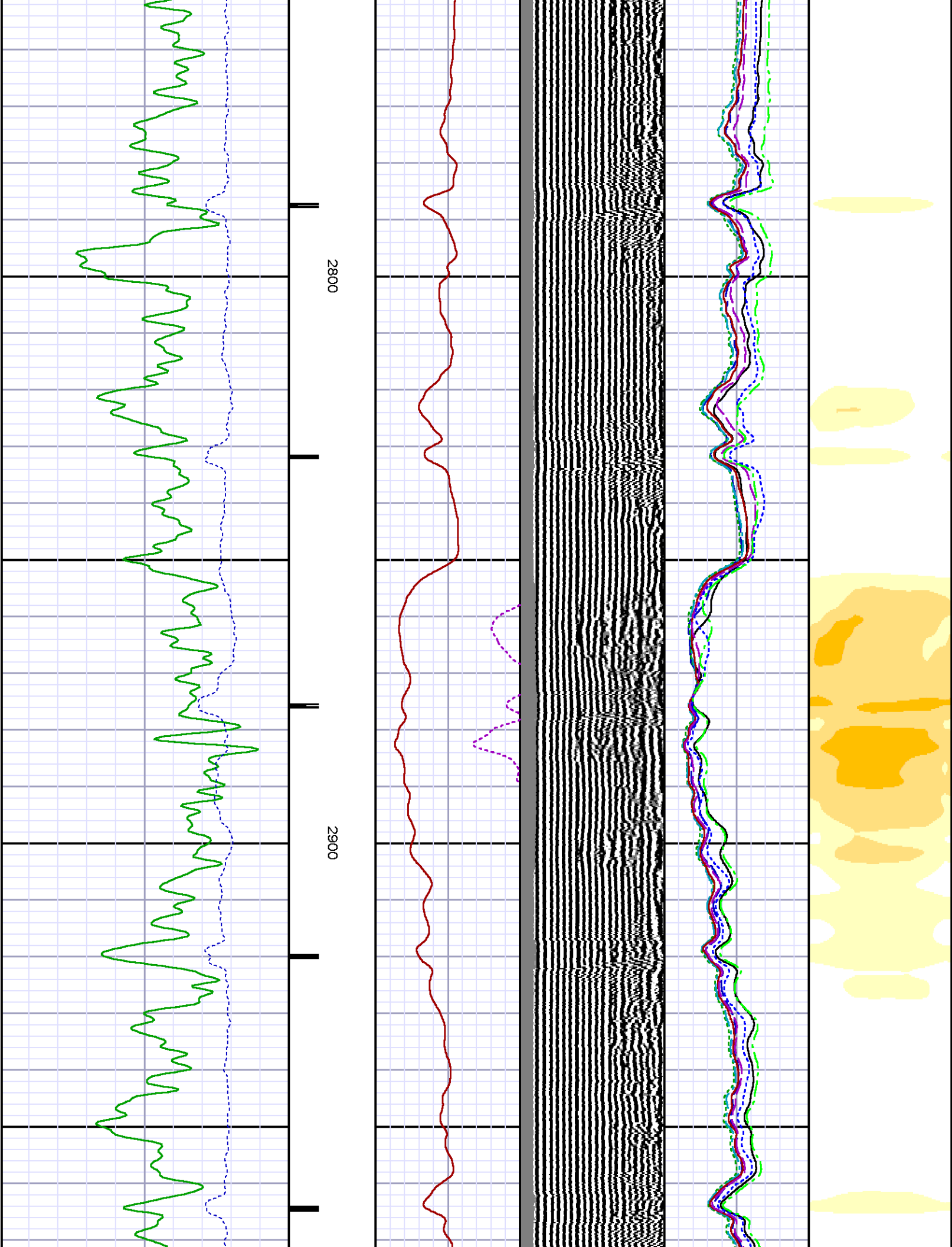


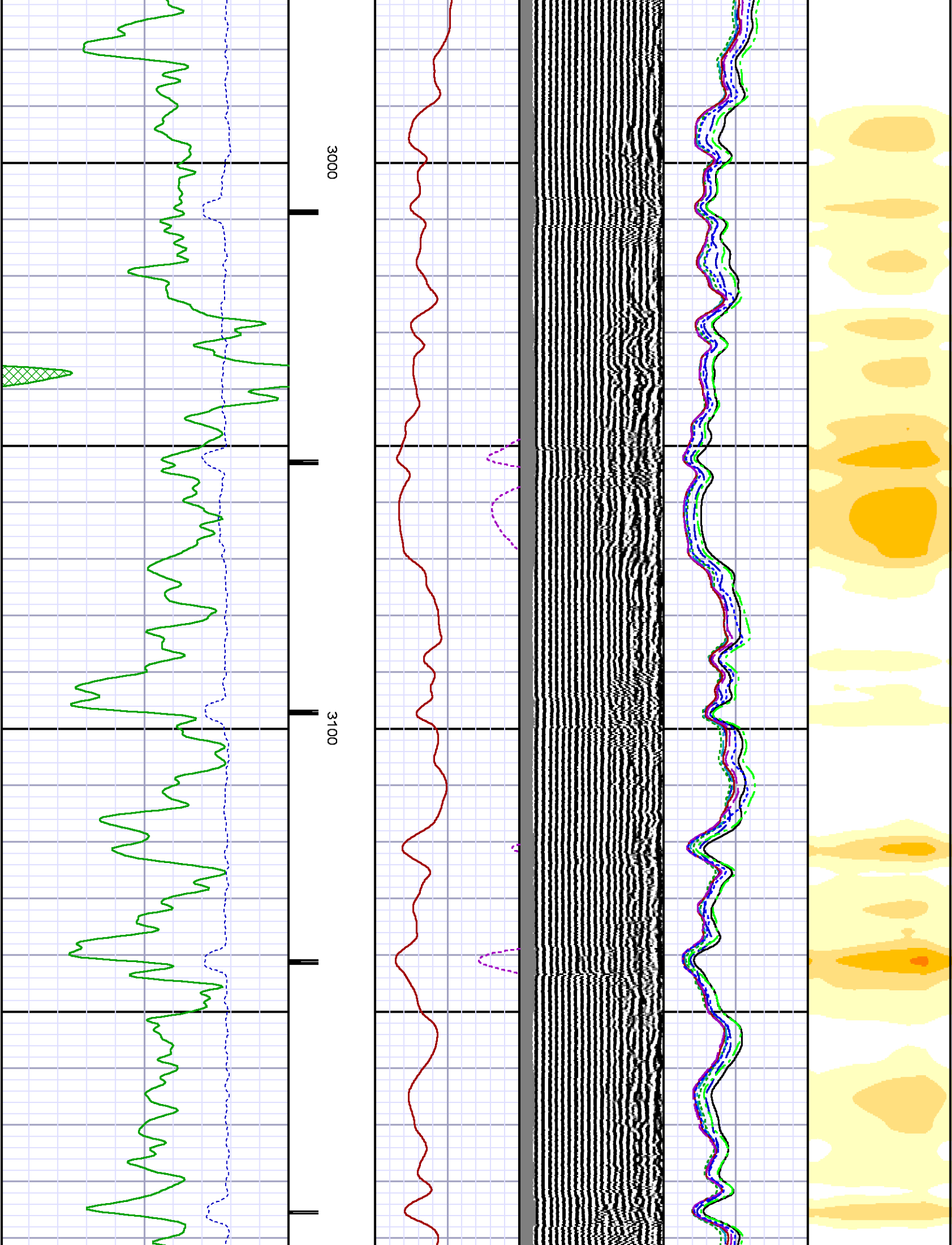


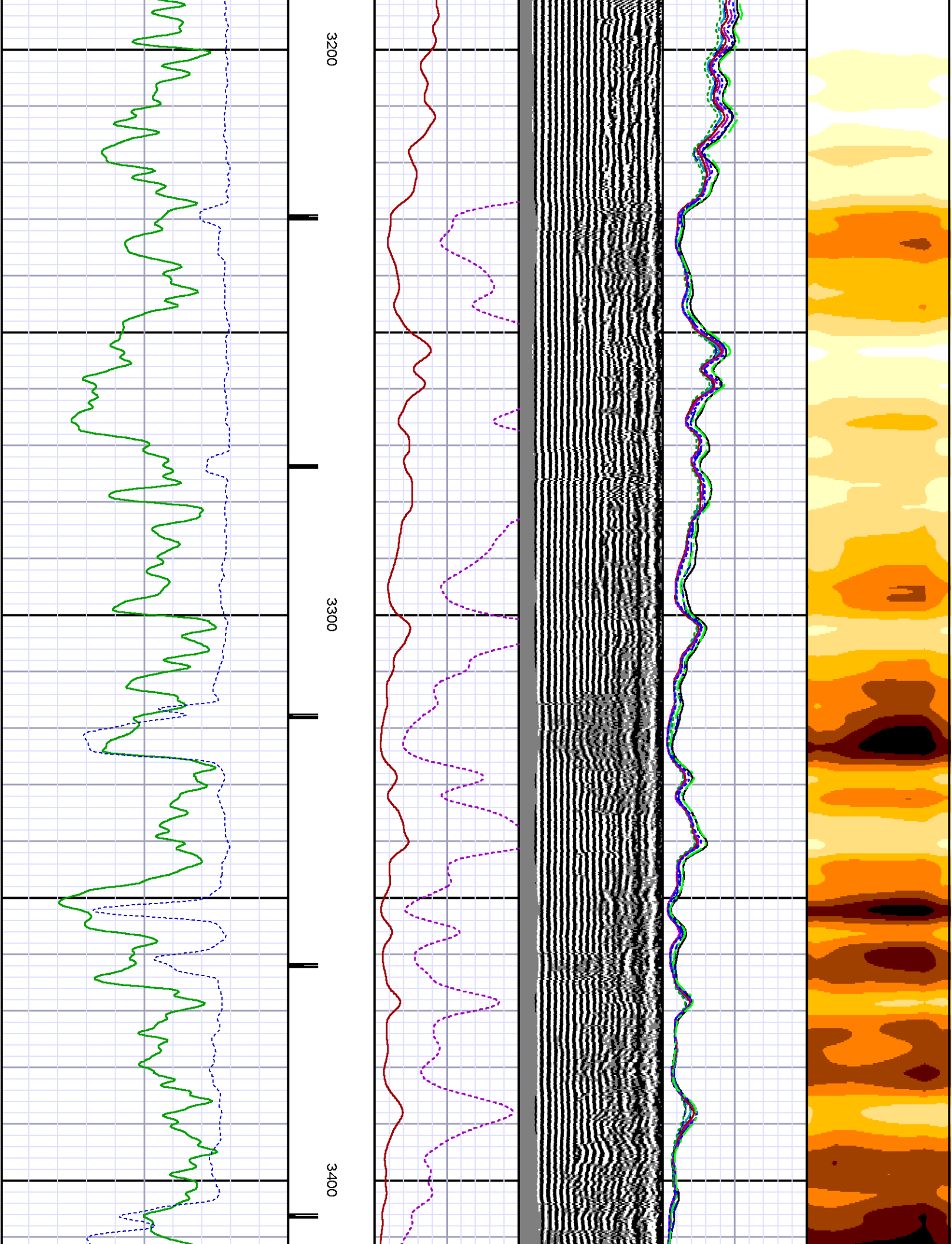


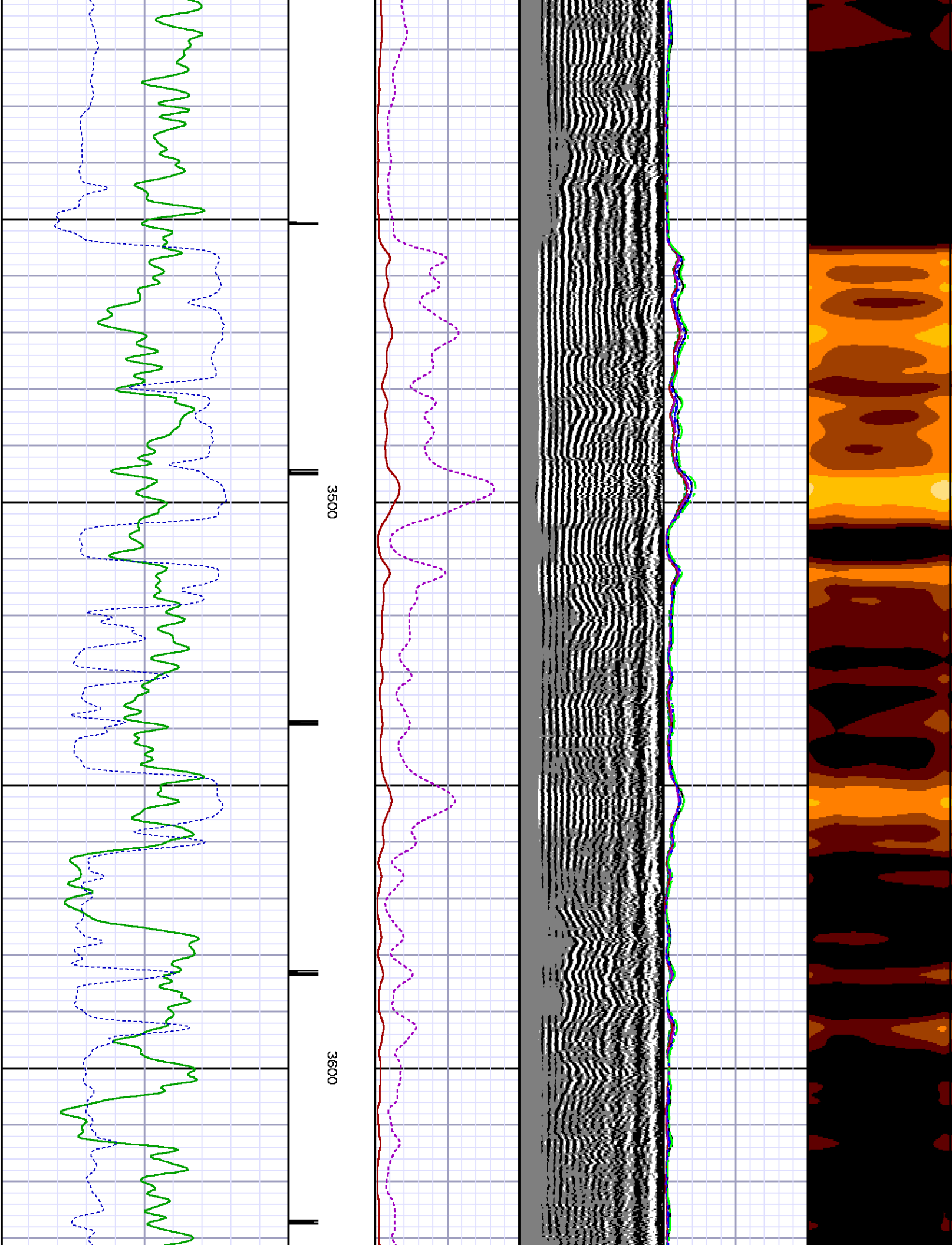


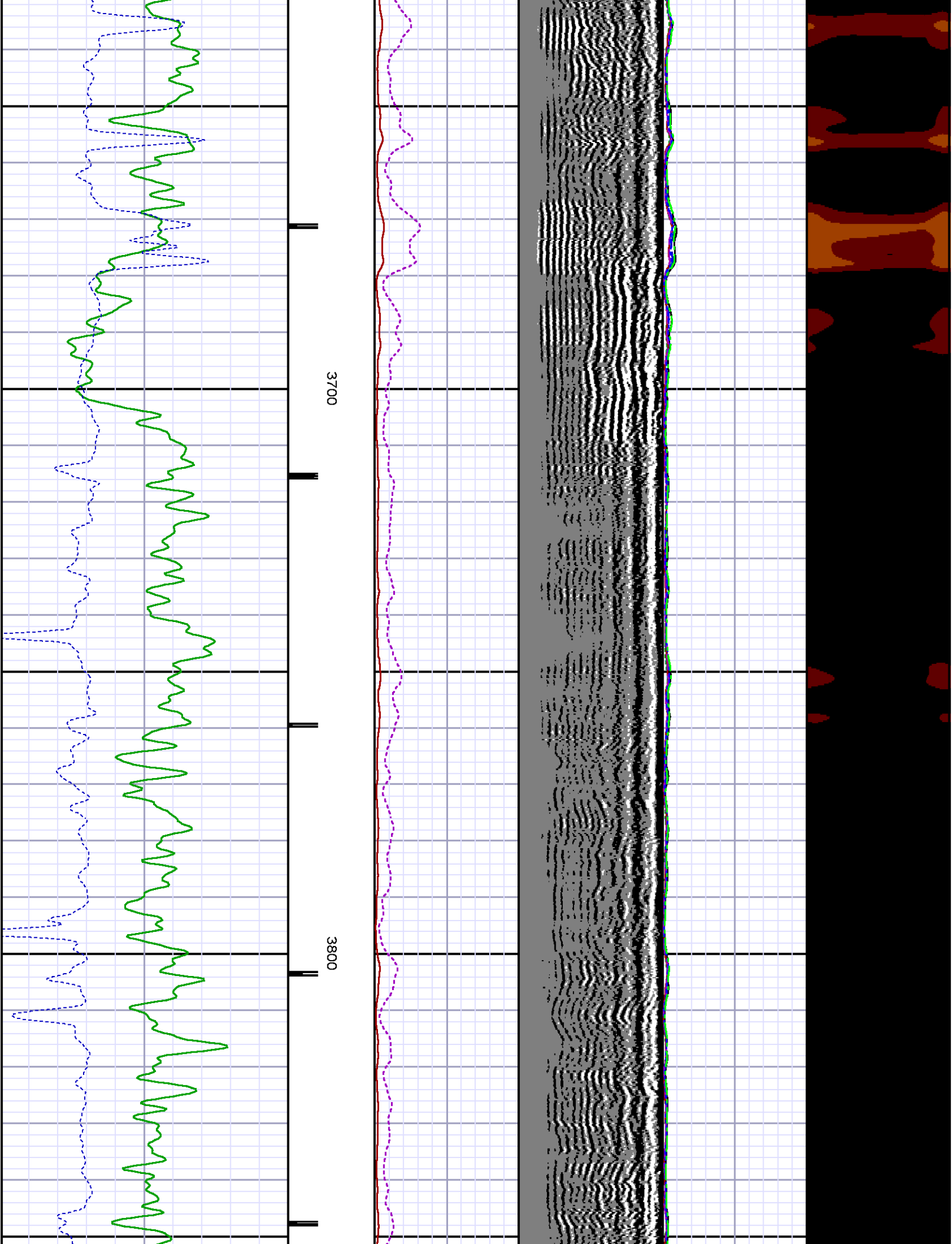


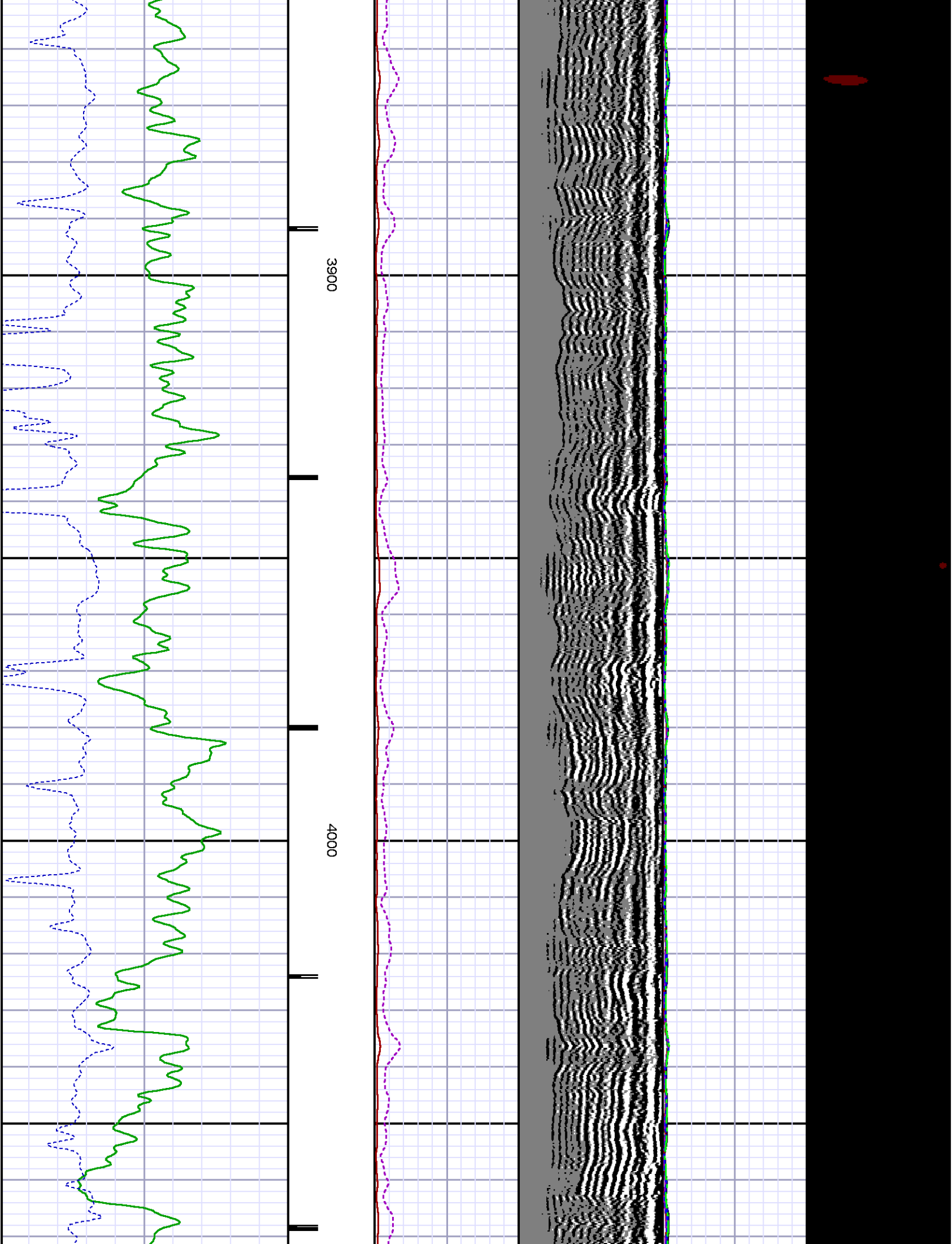


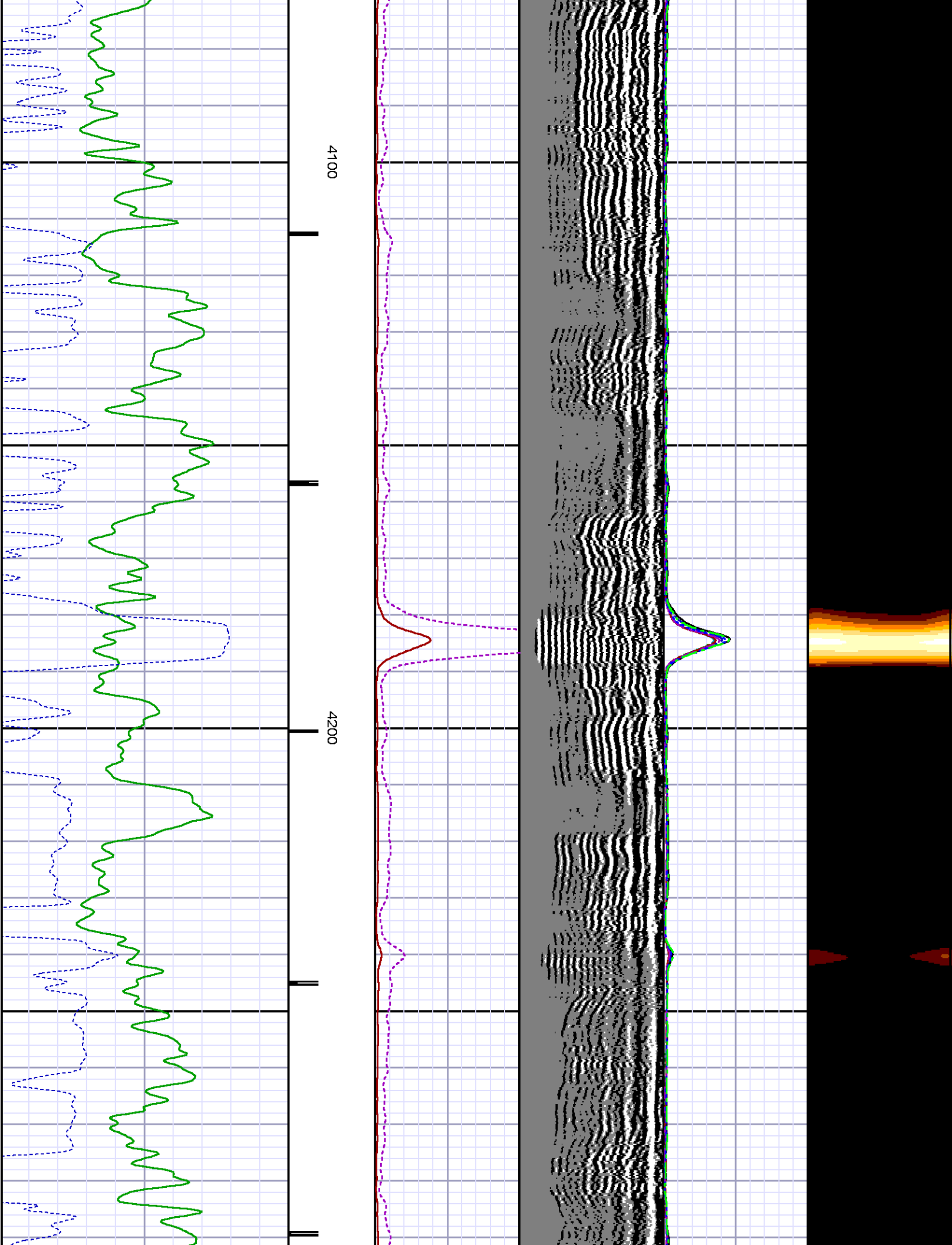


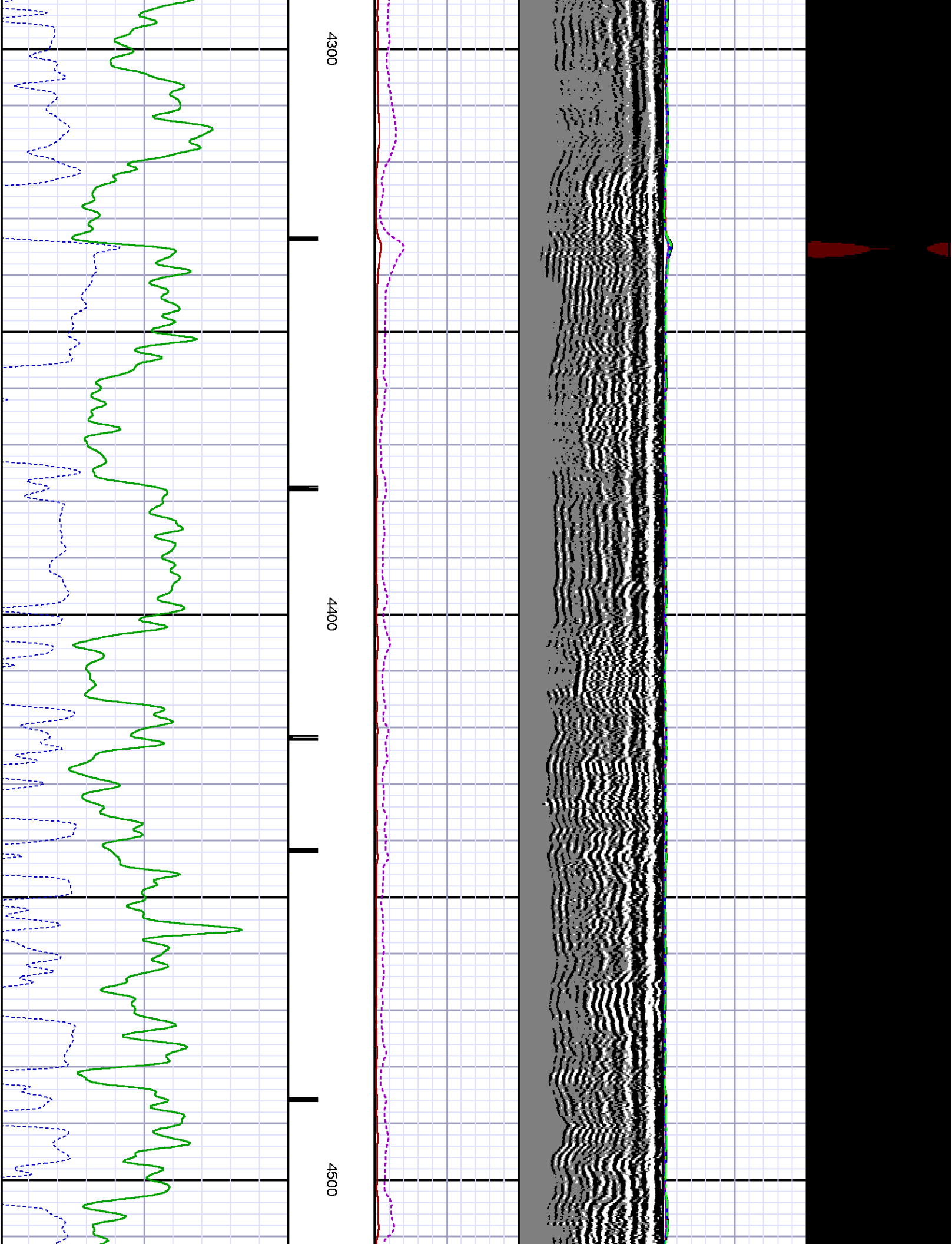


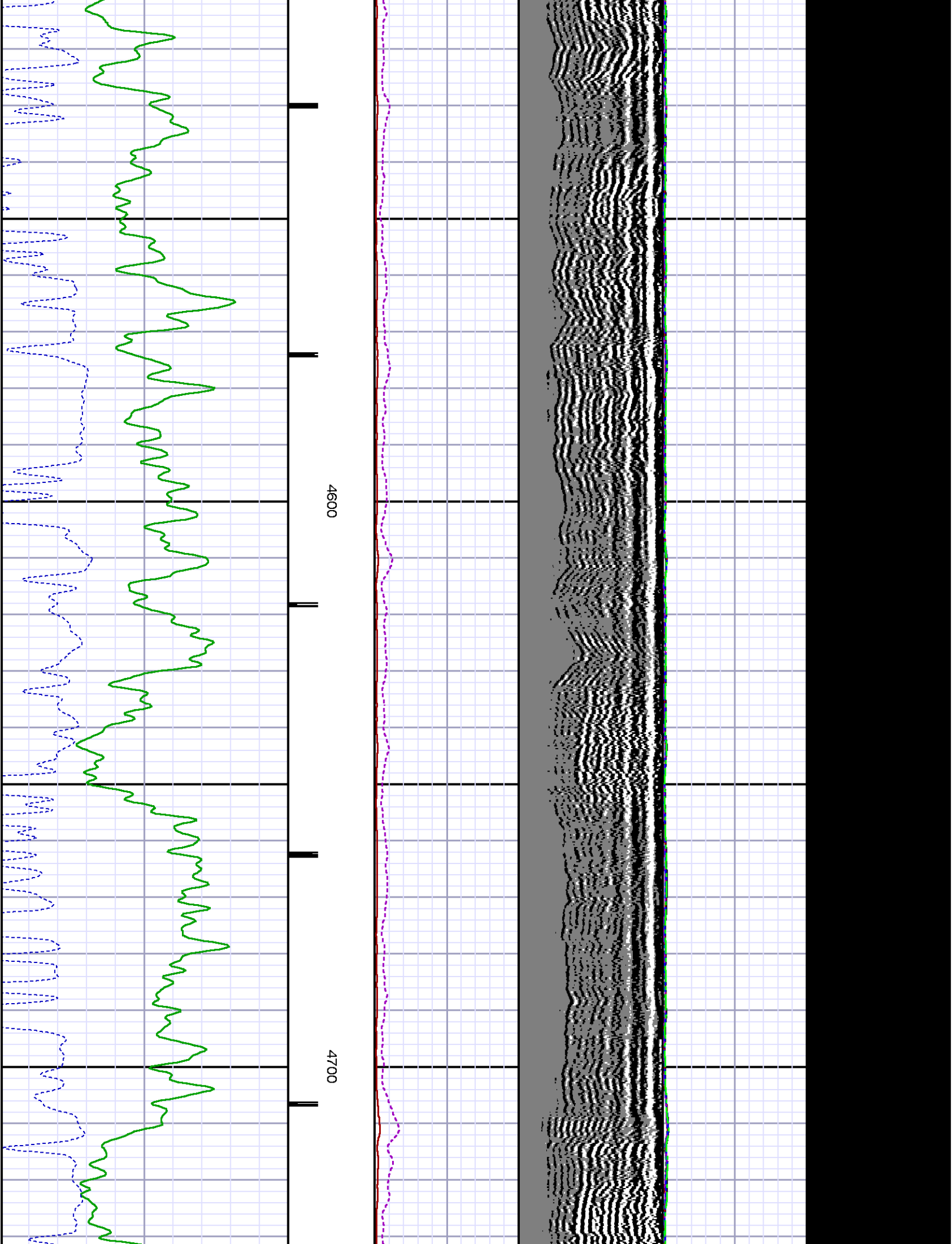


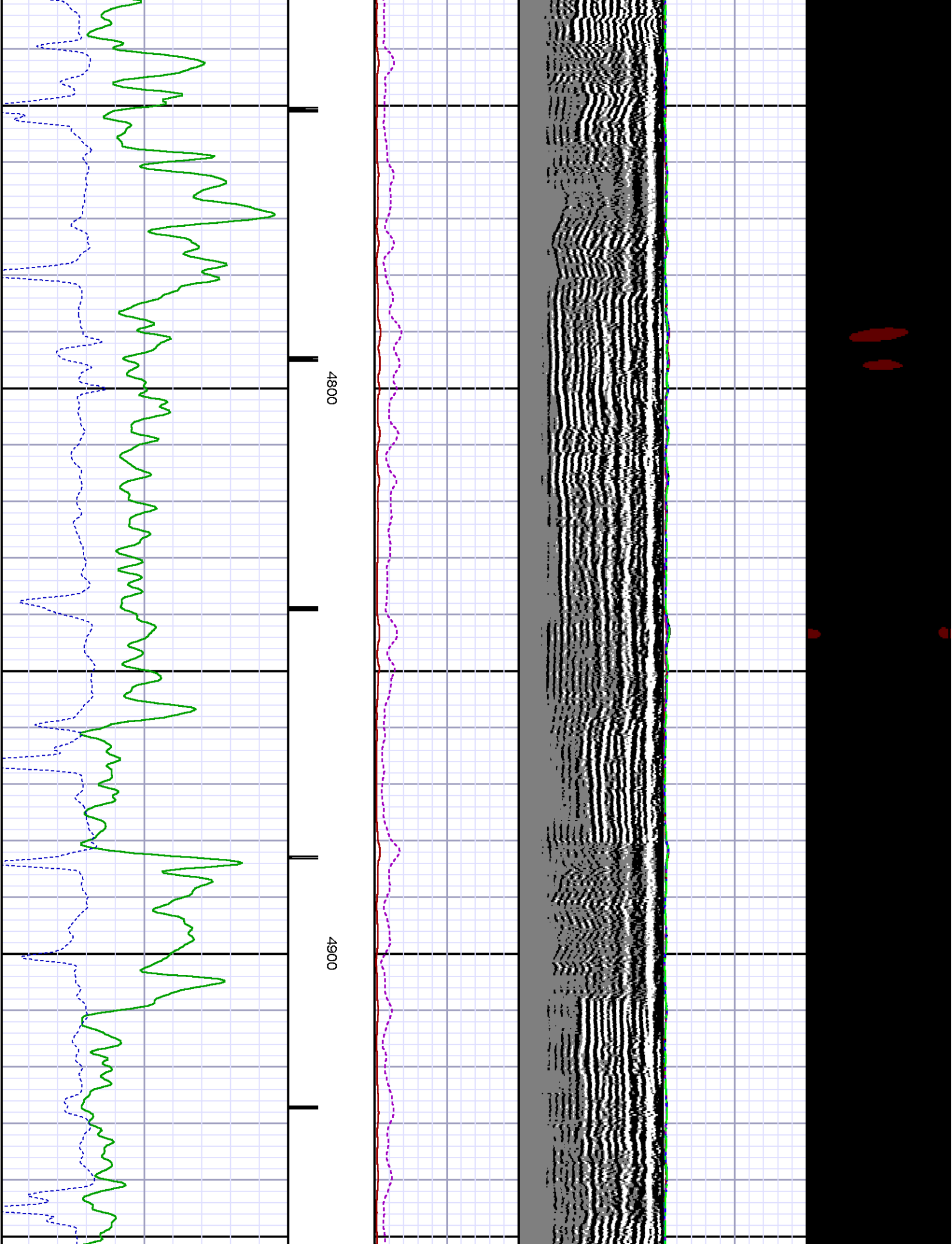


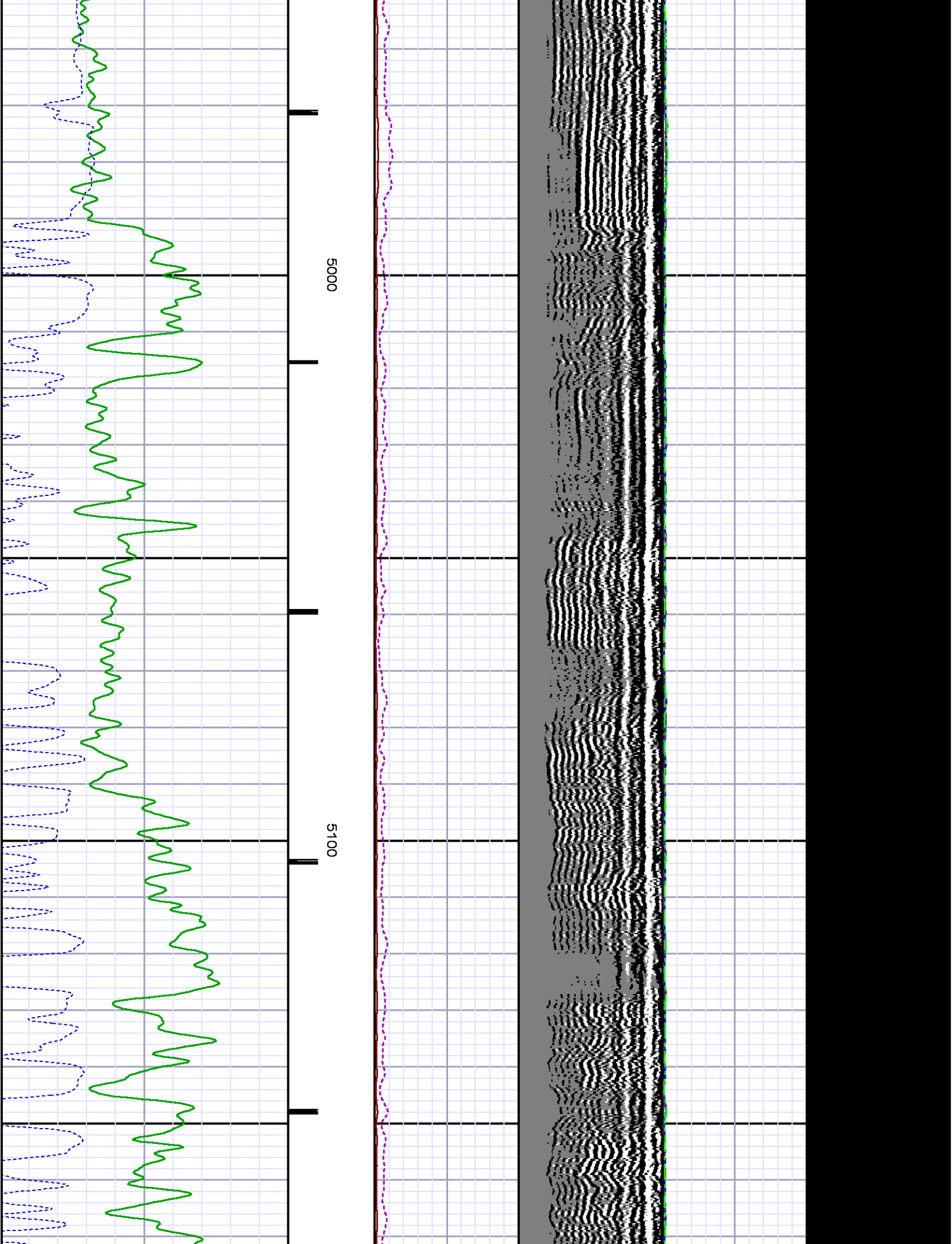


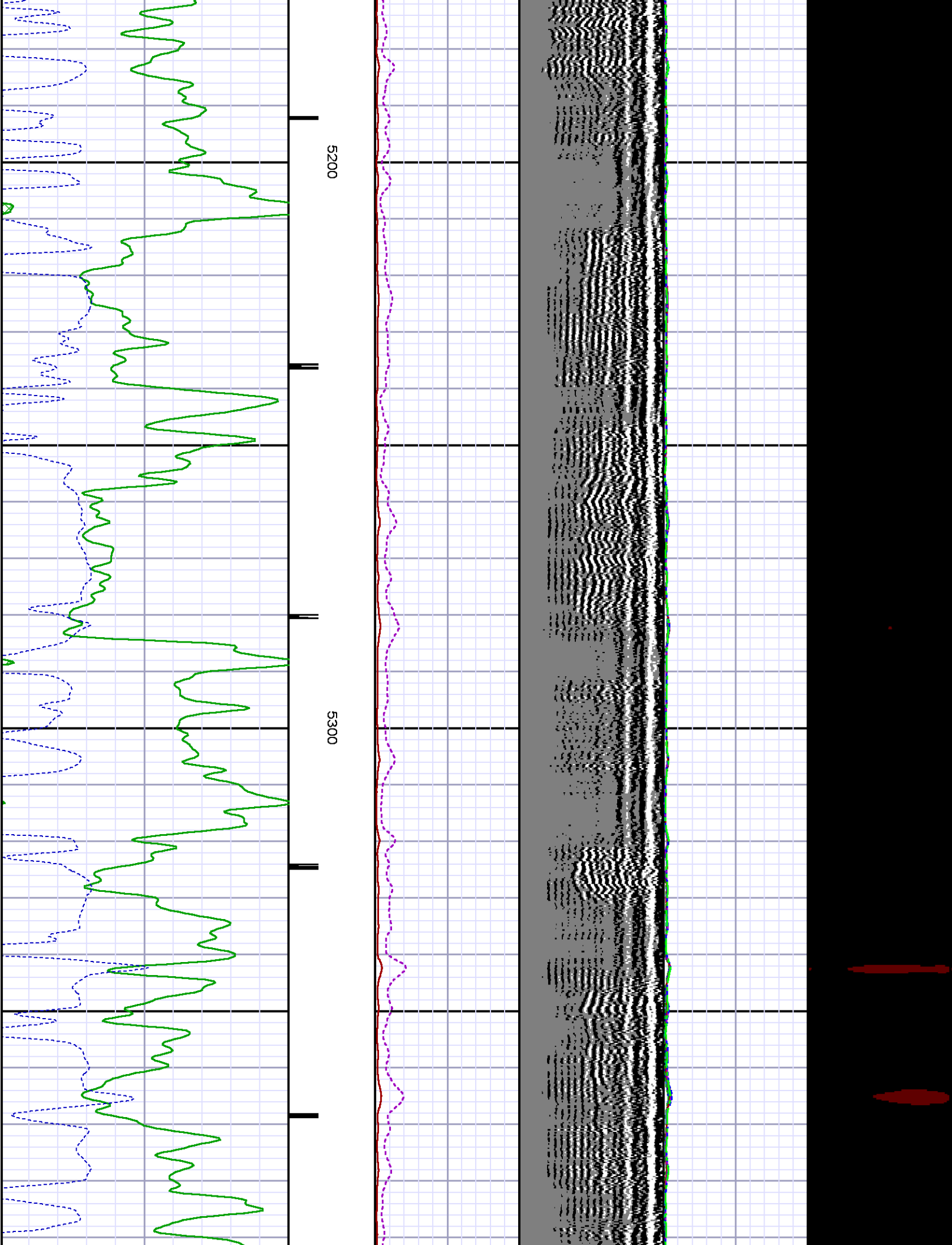


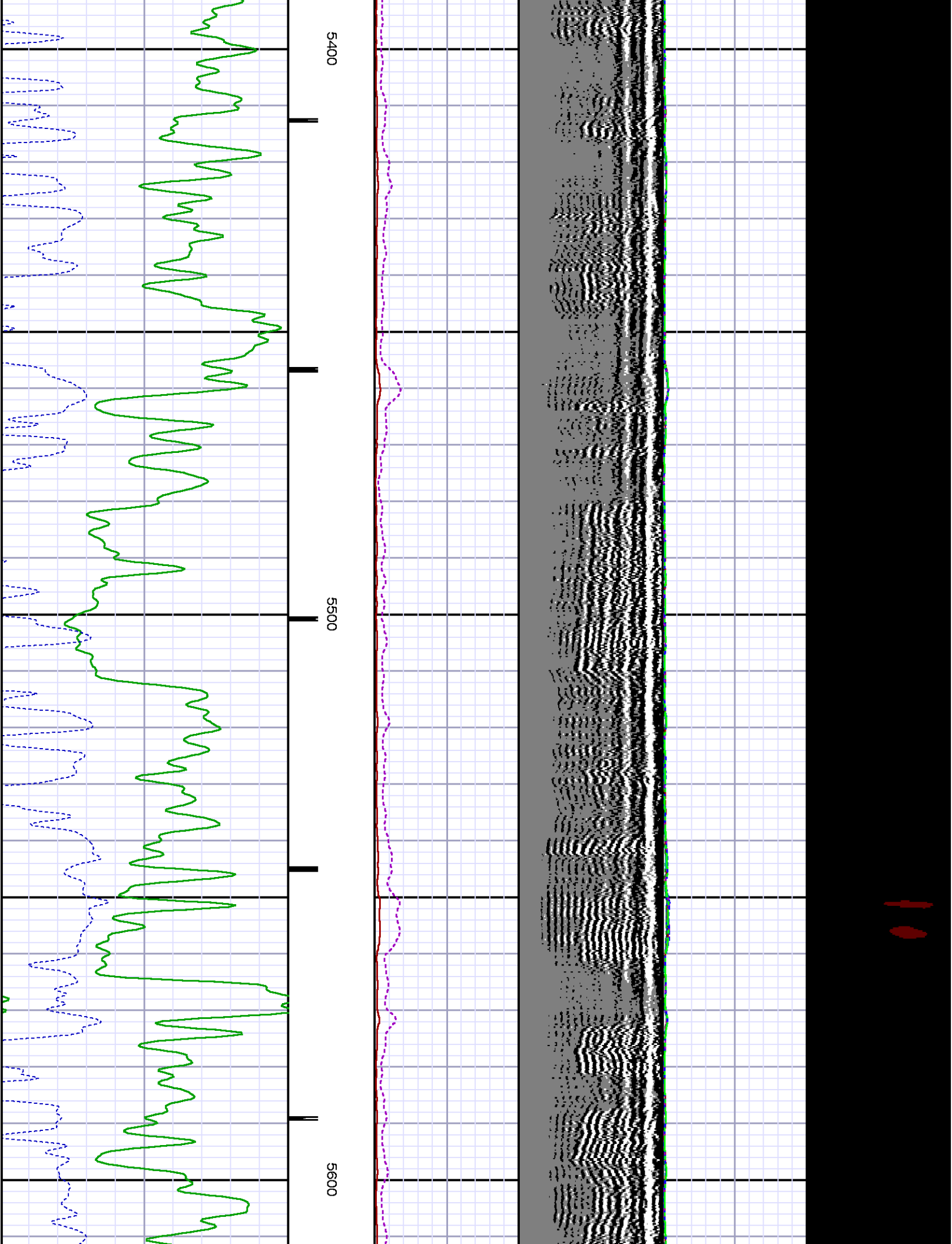


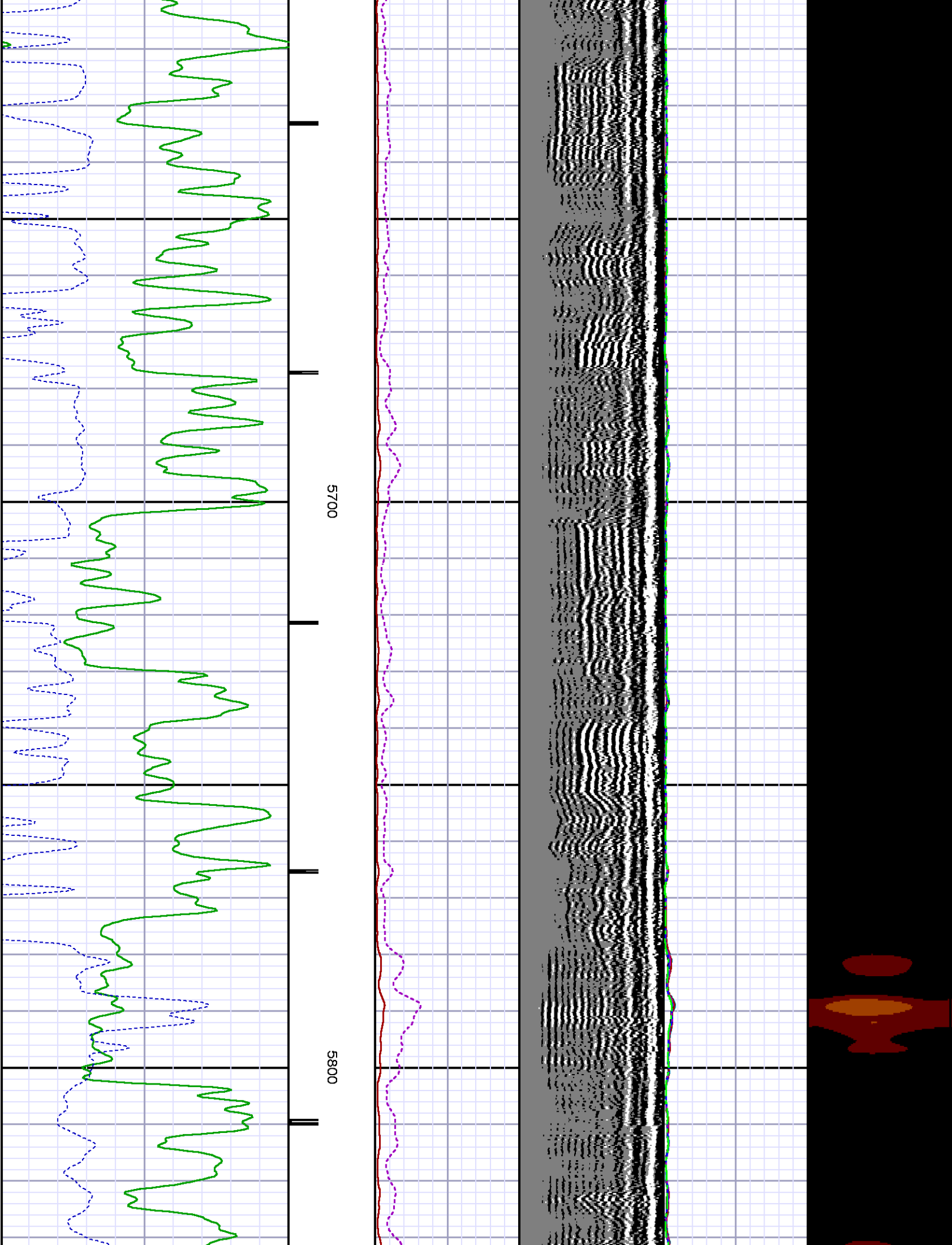


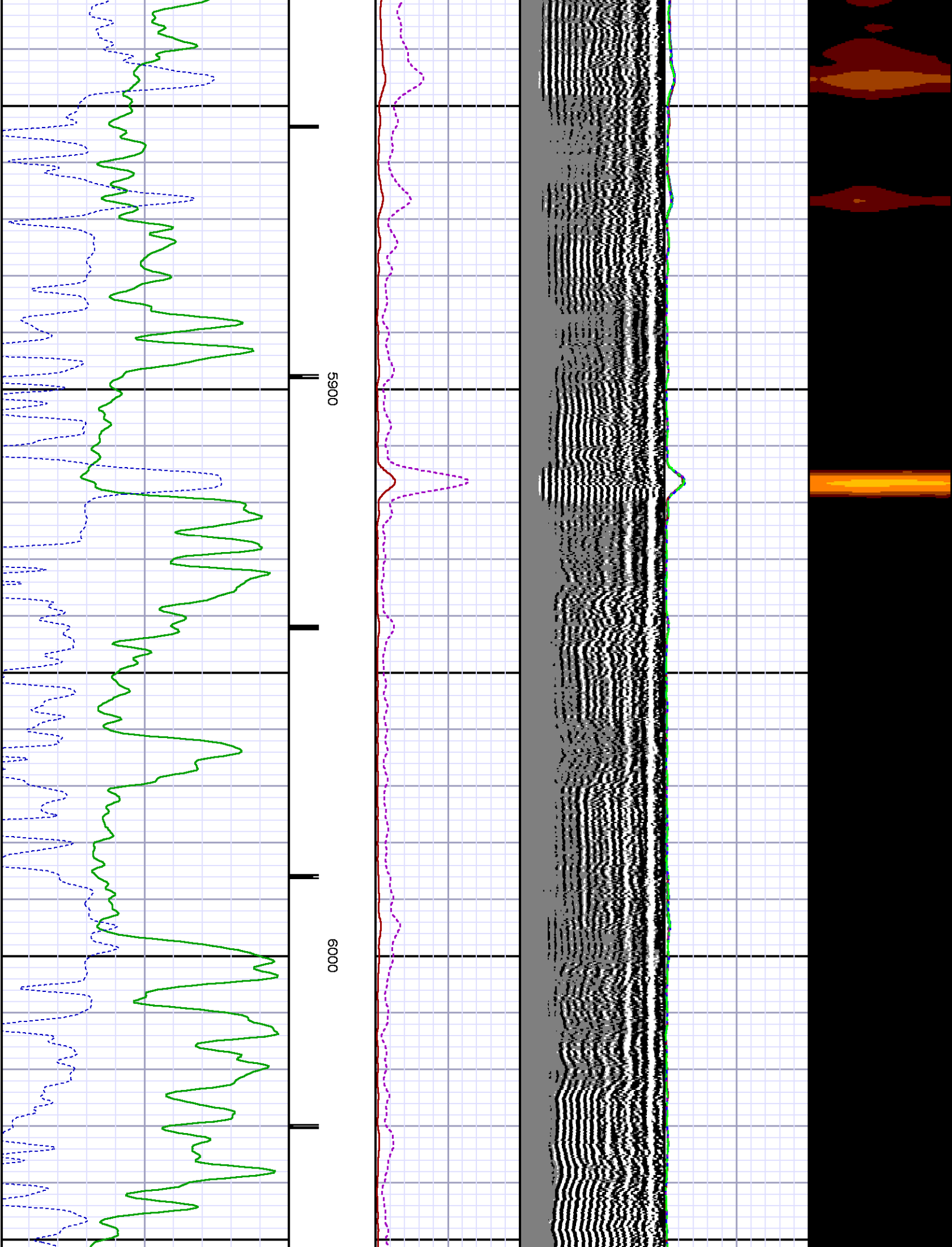


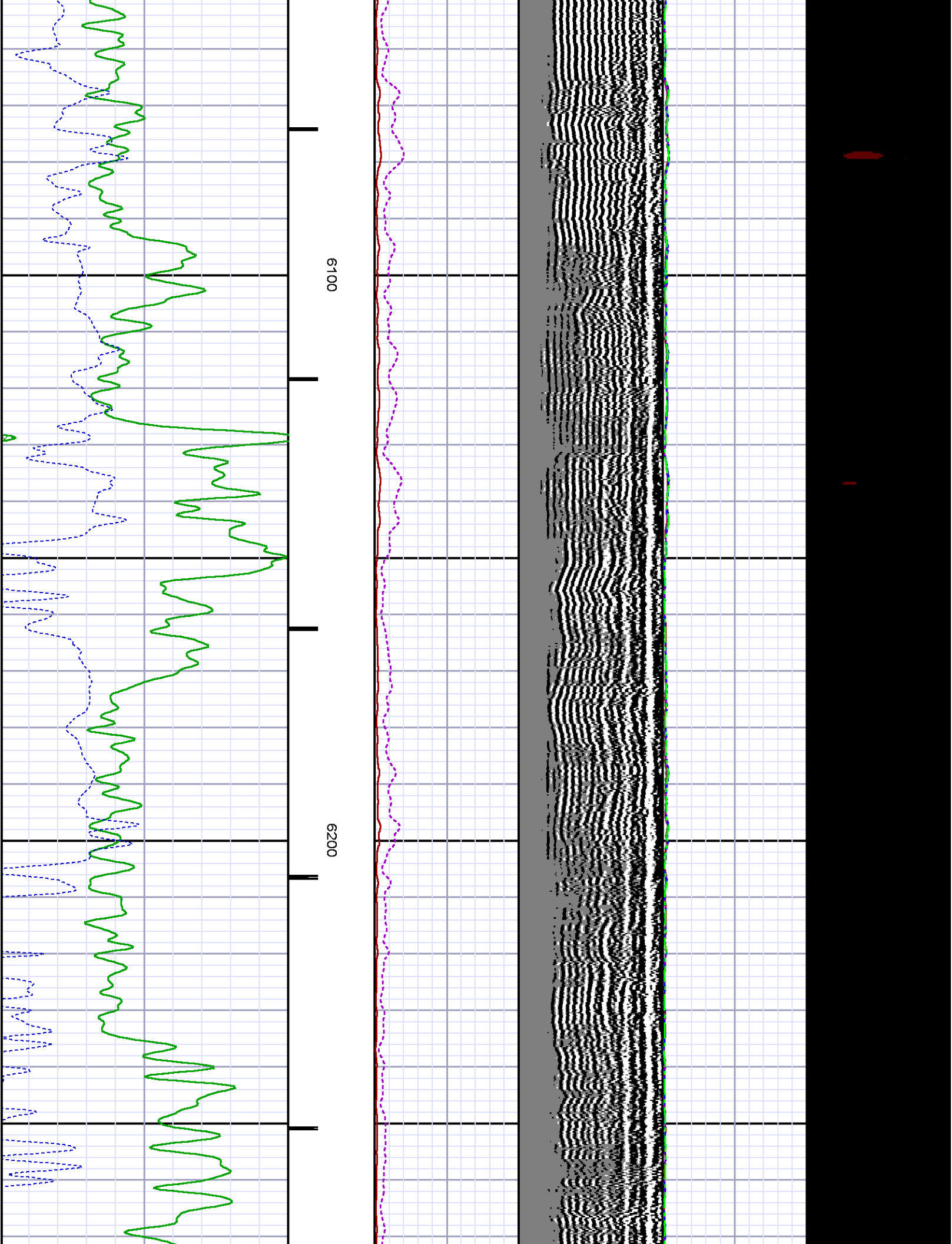


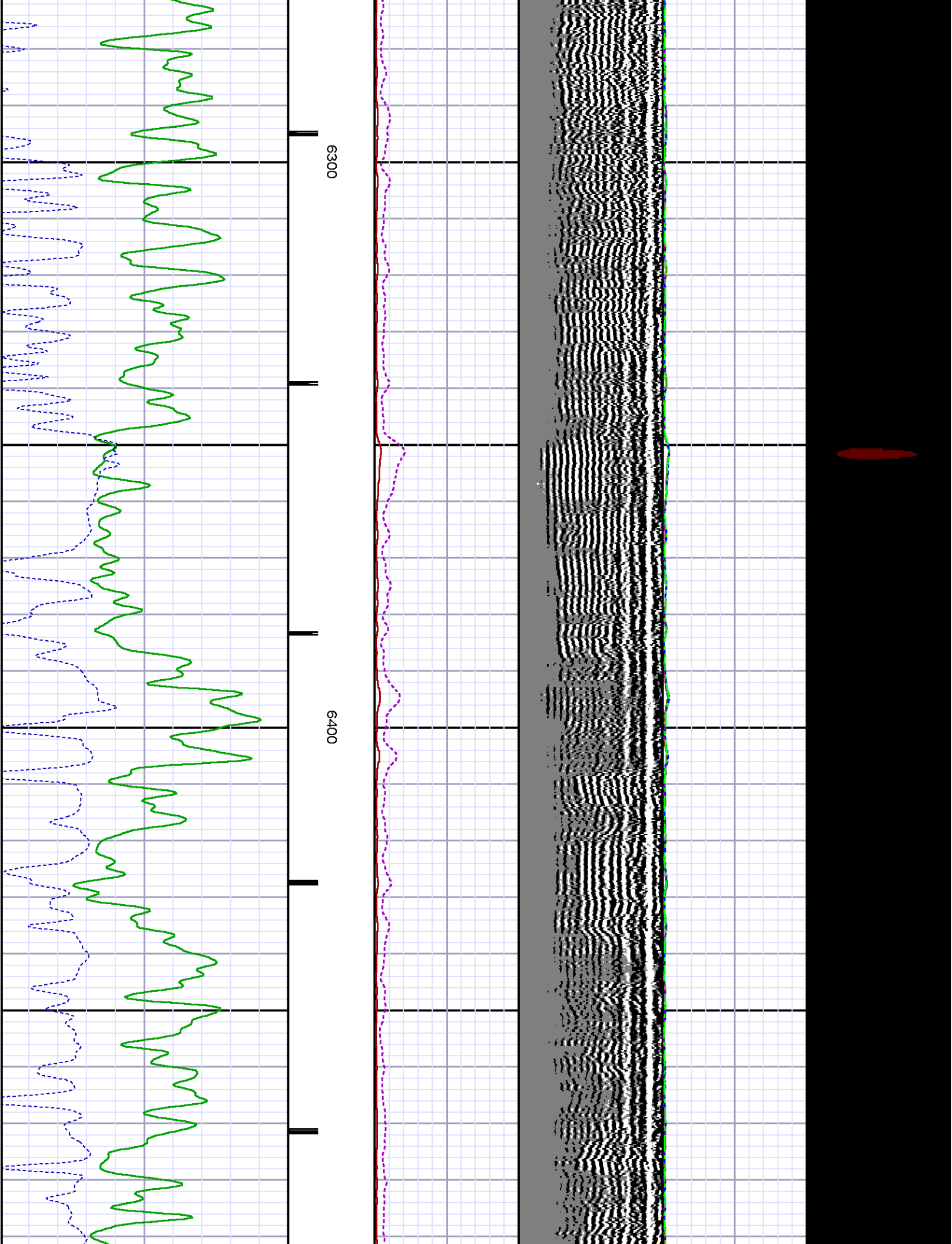


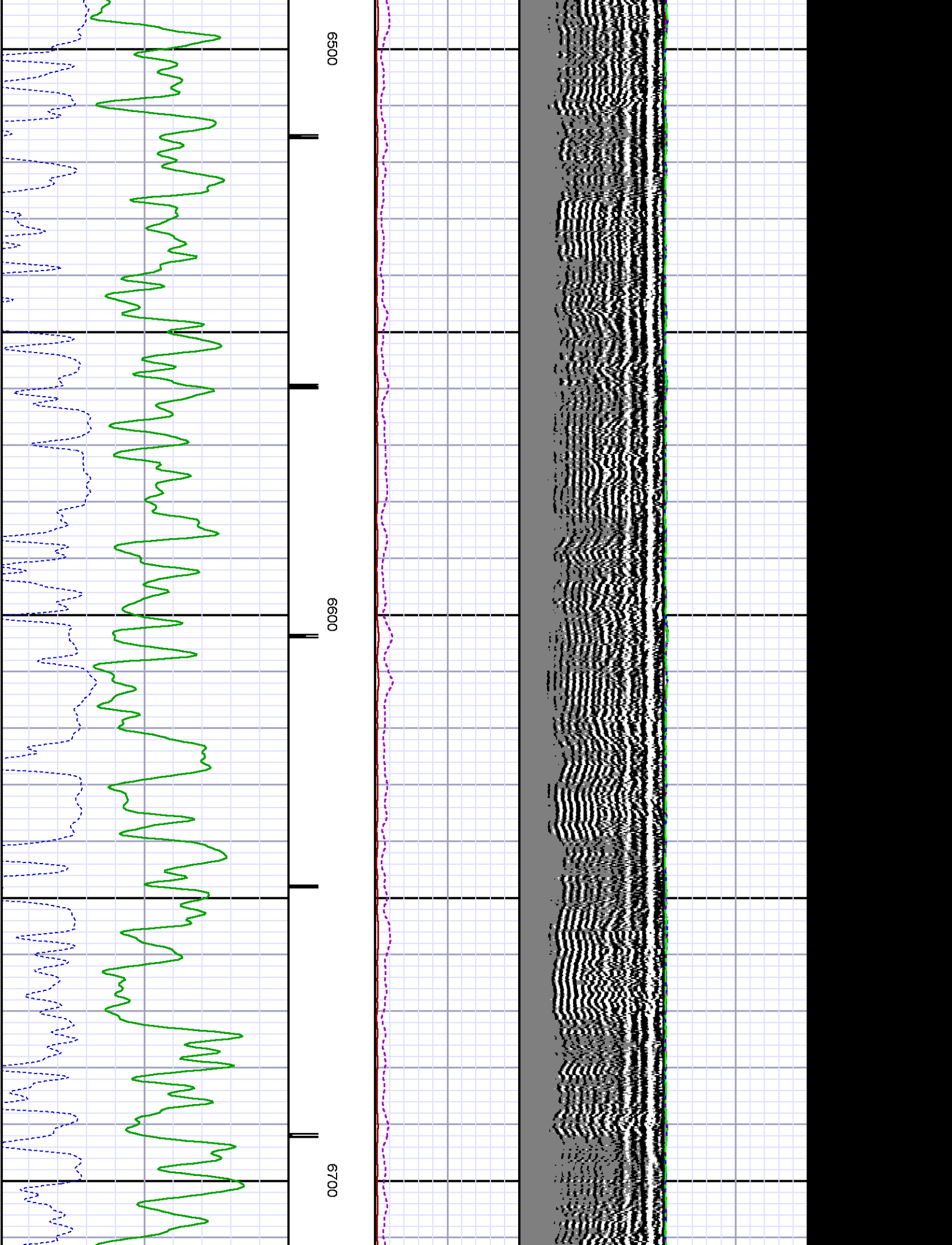


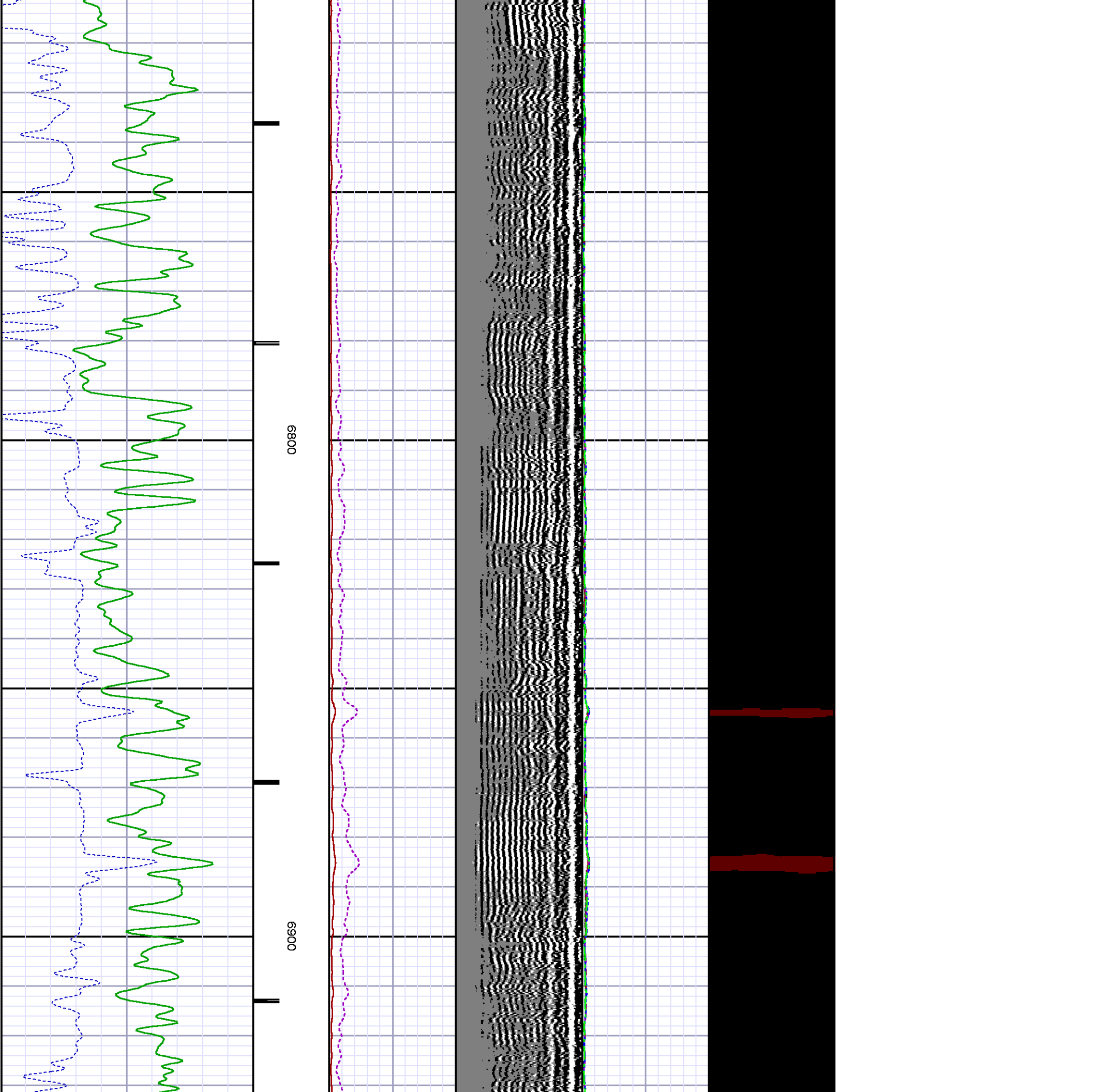


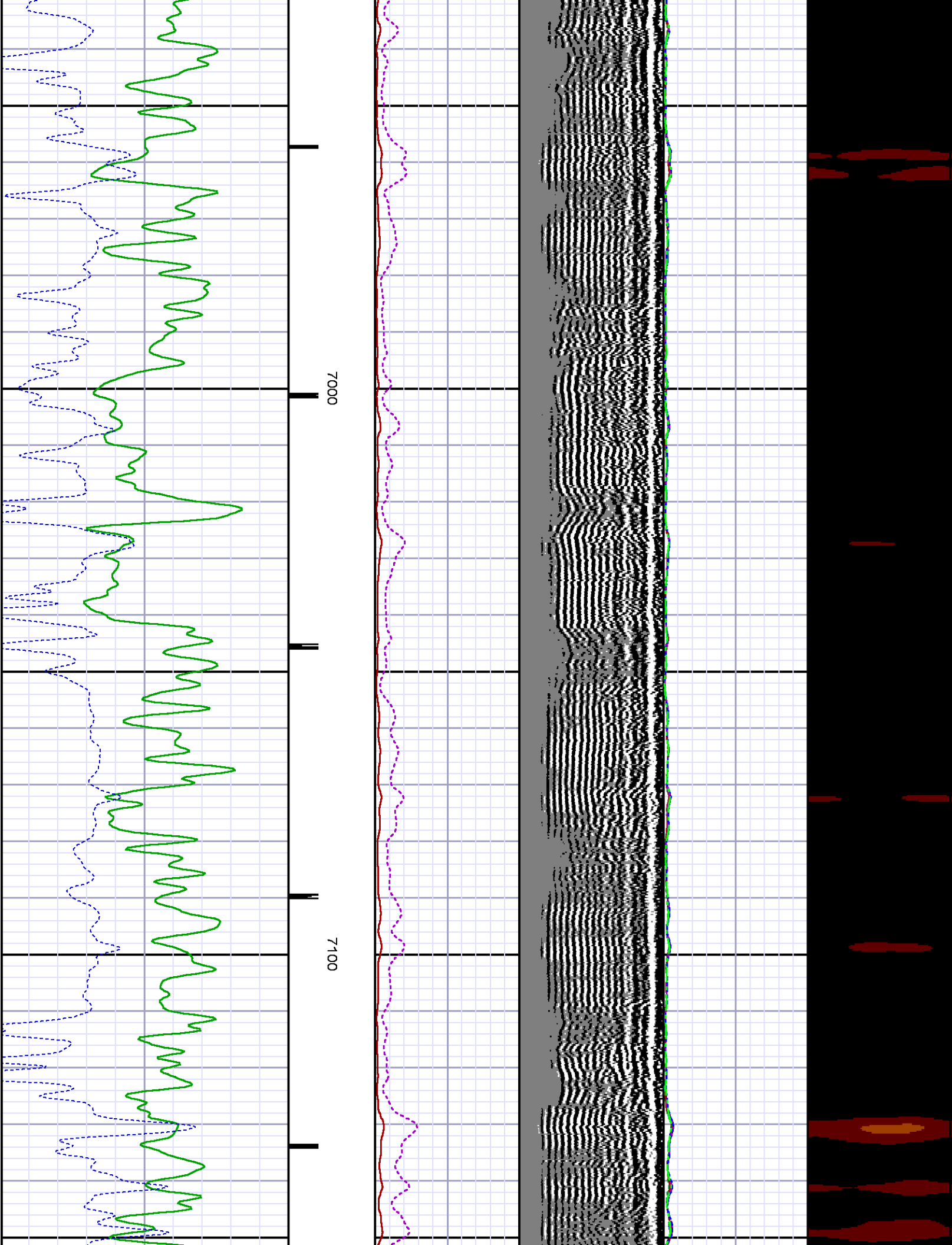


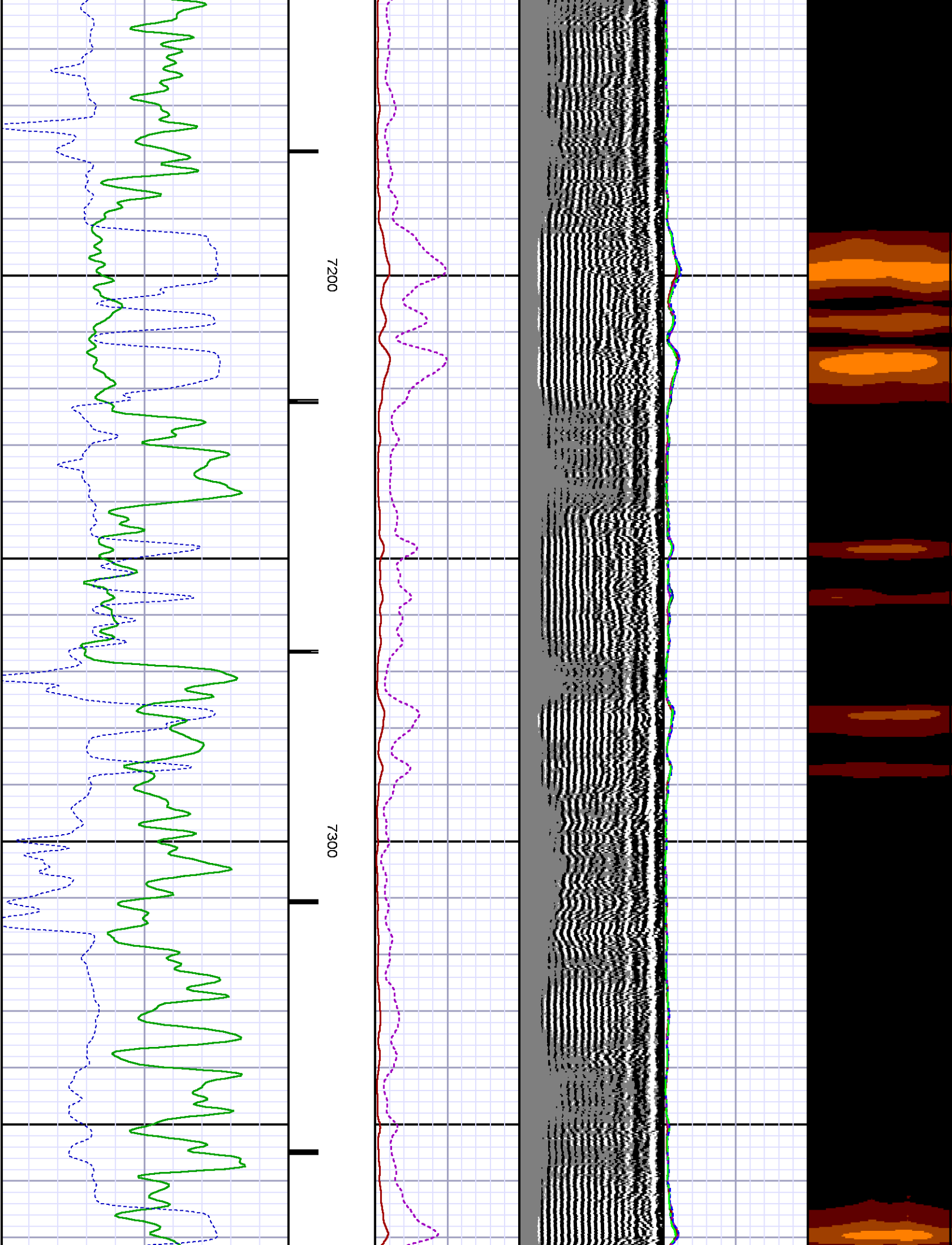


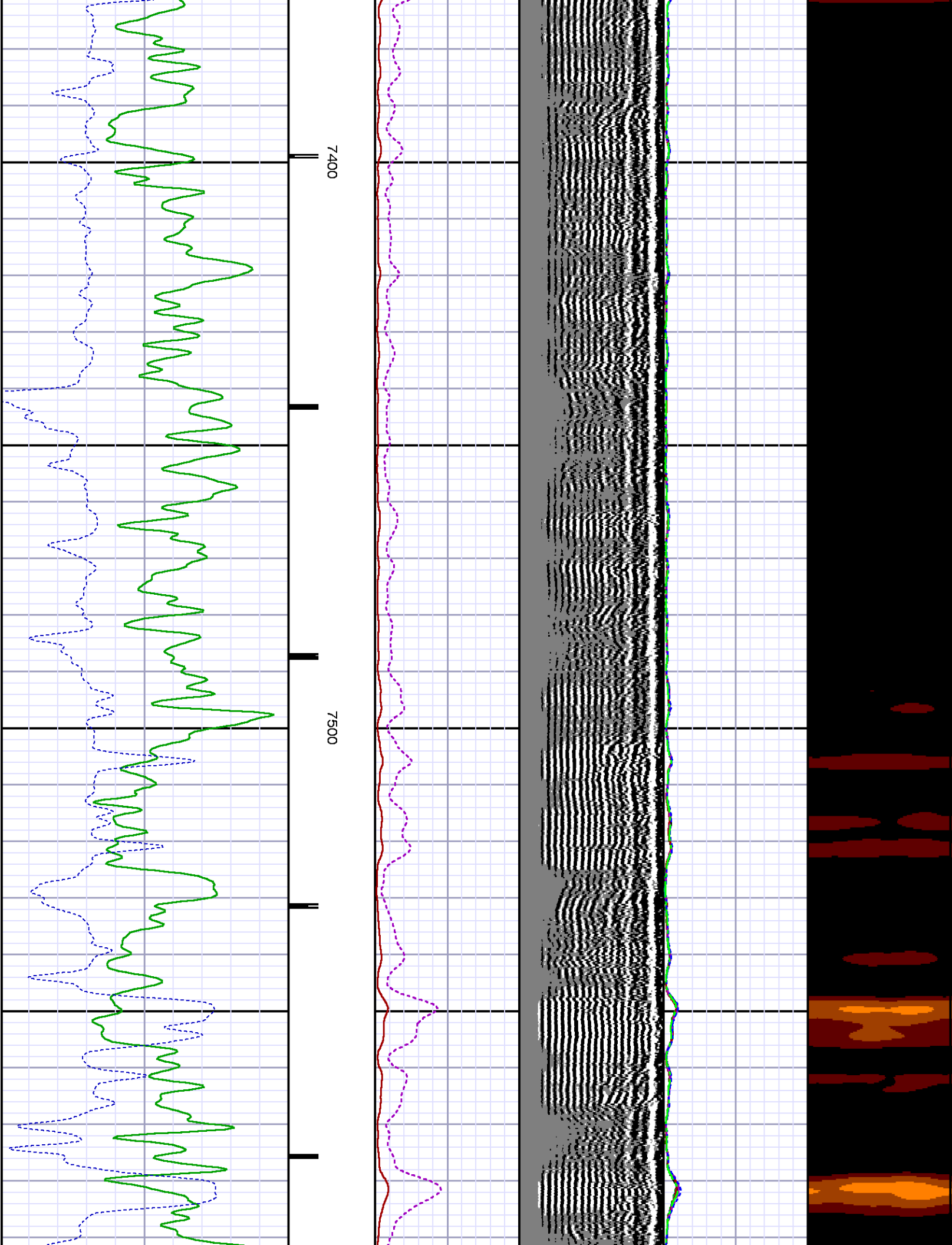


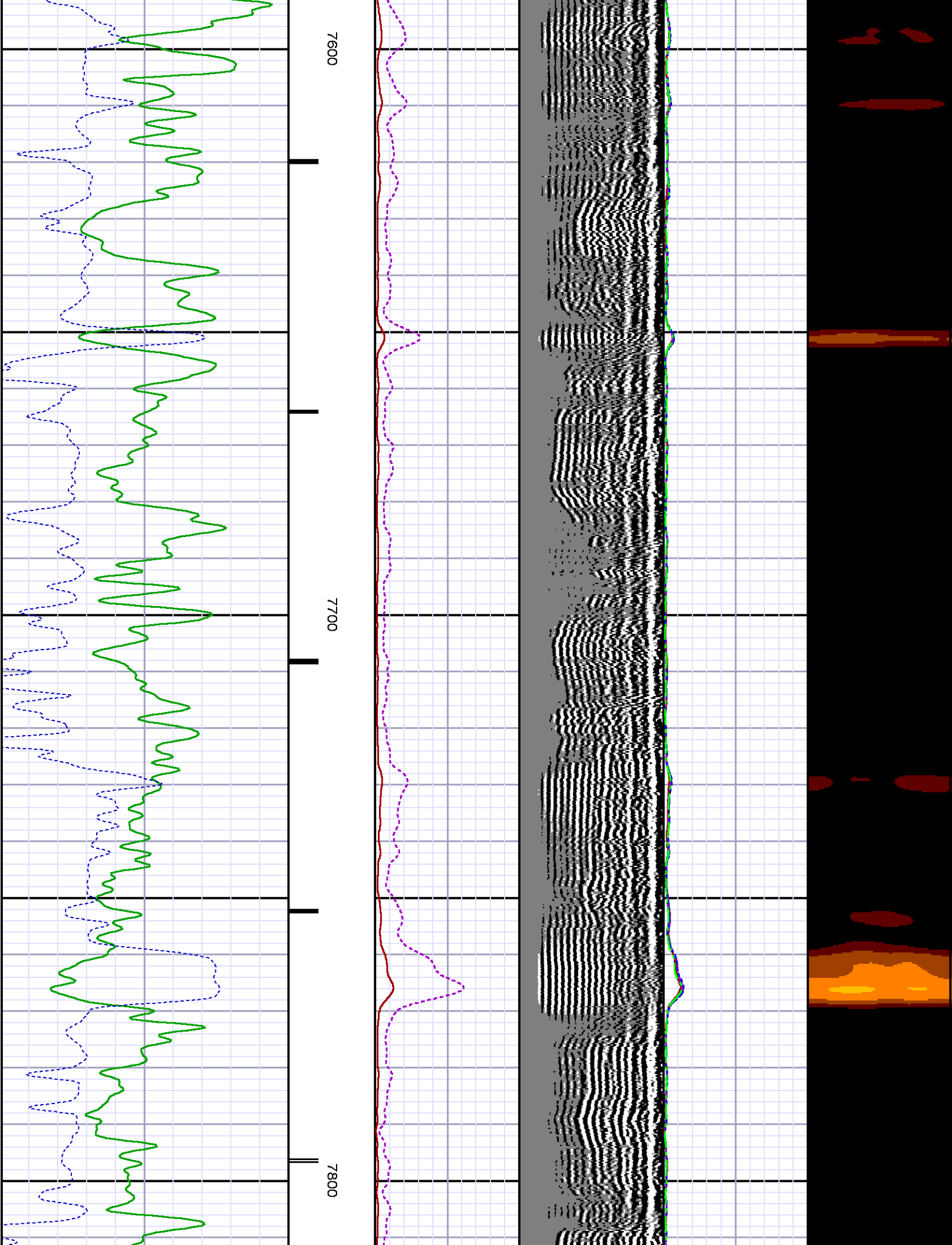


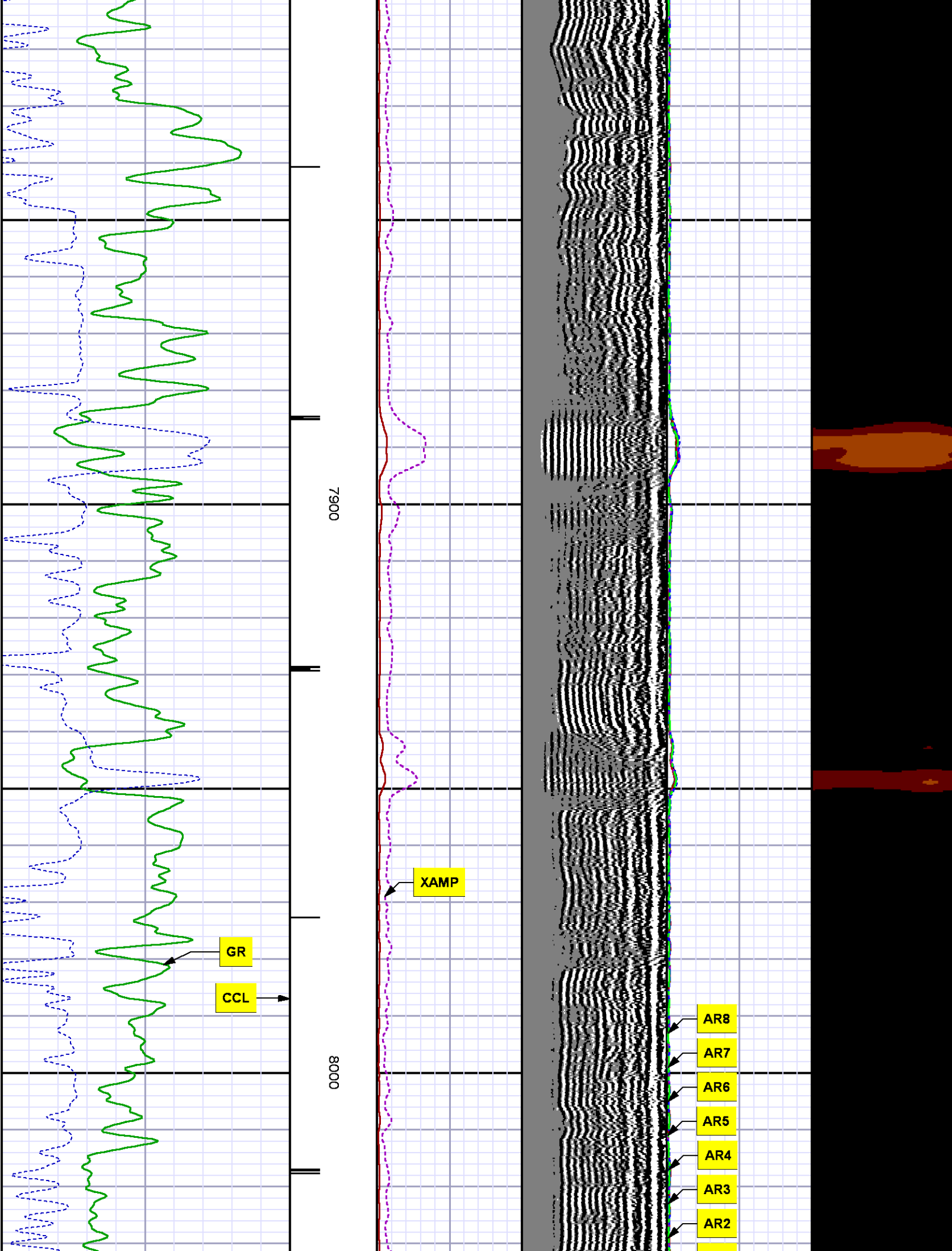


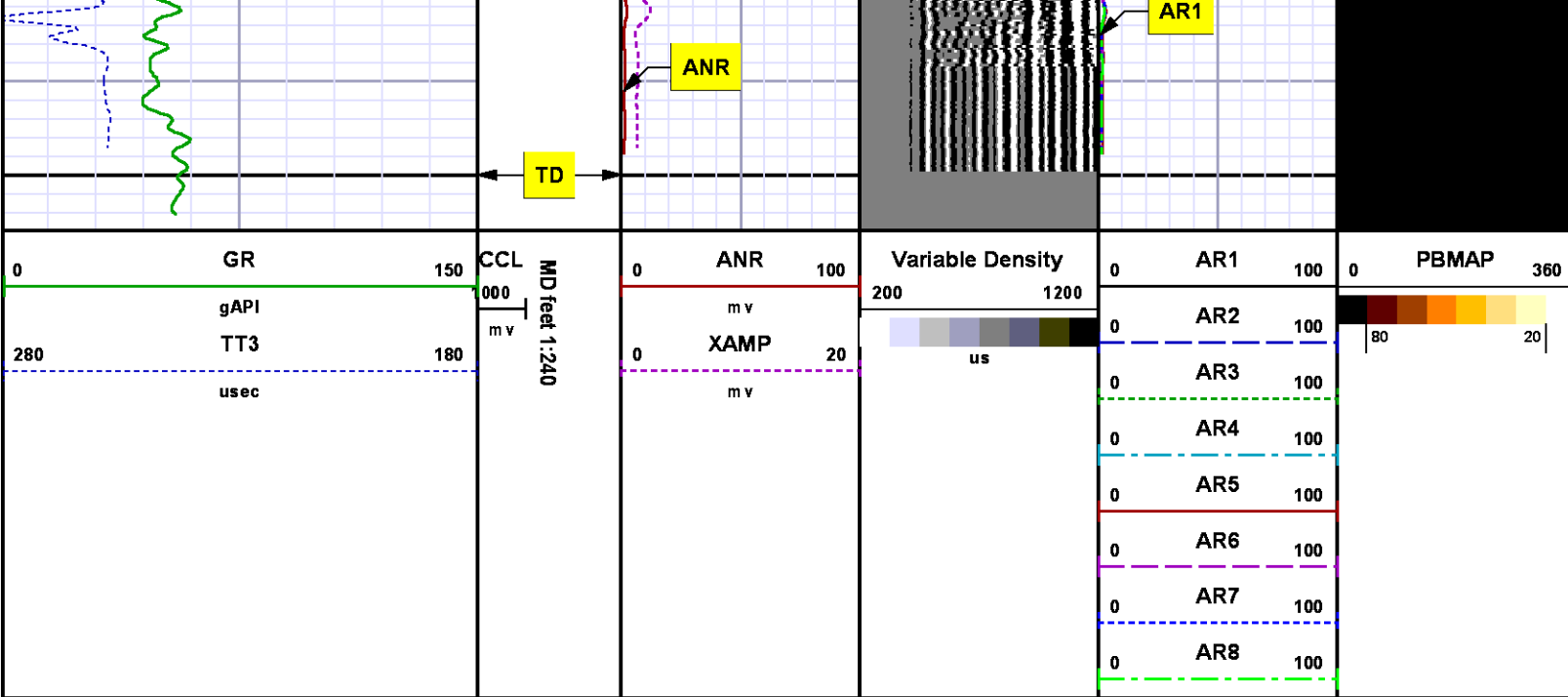












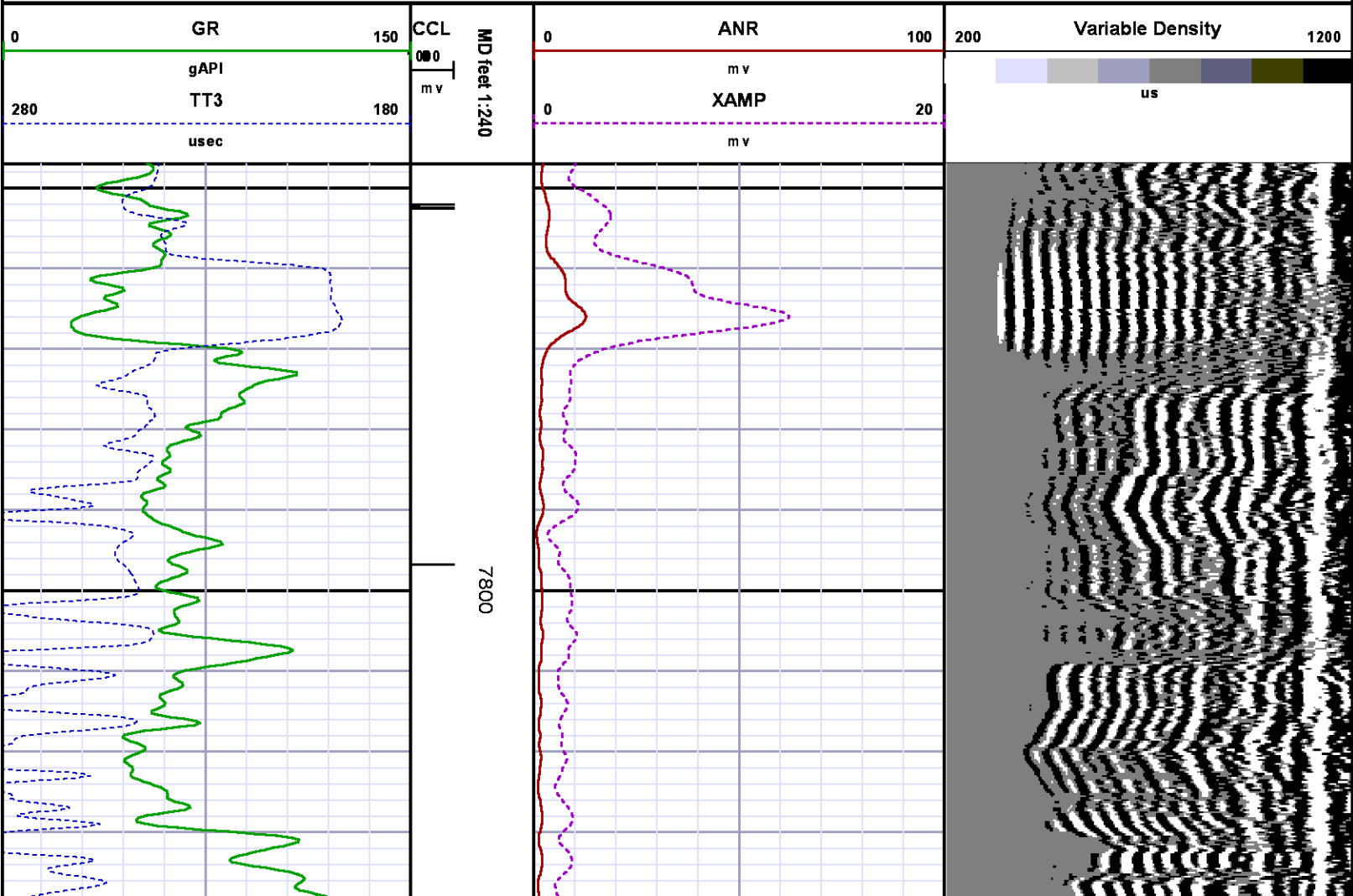
REPEAT SECTION
0 PSI

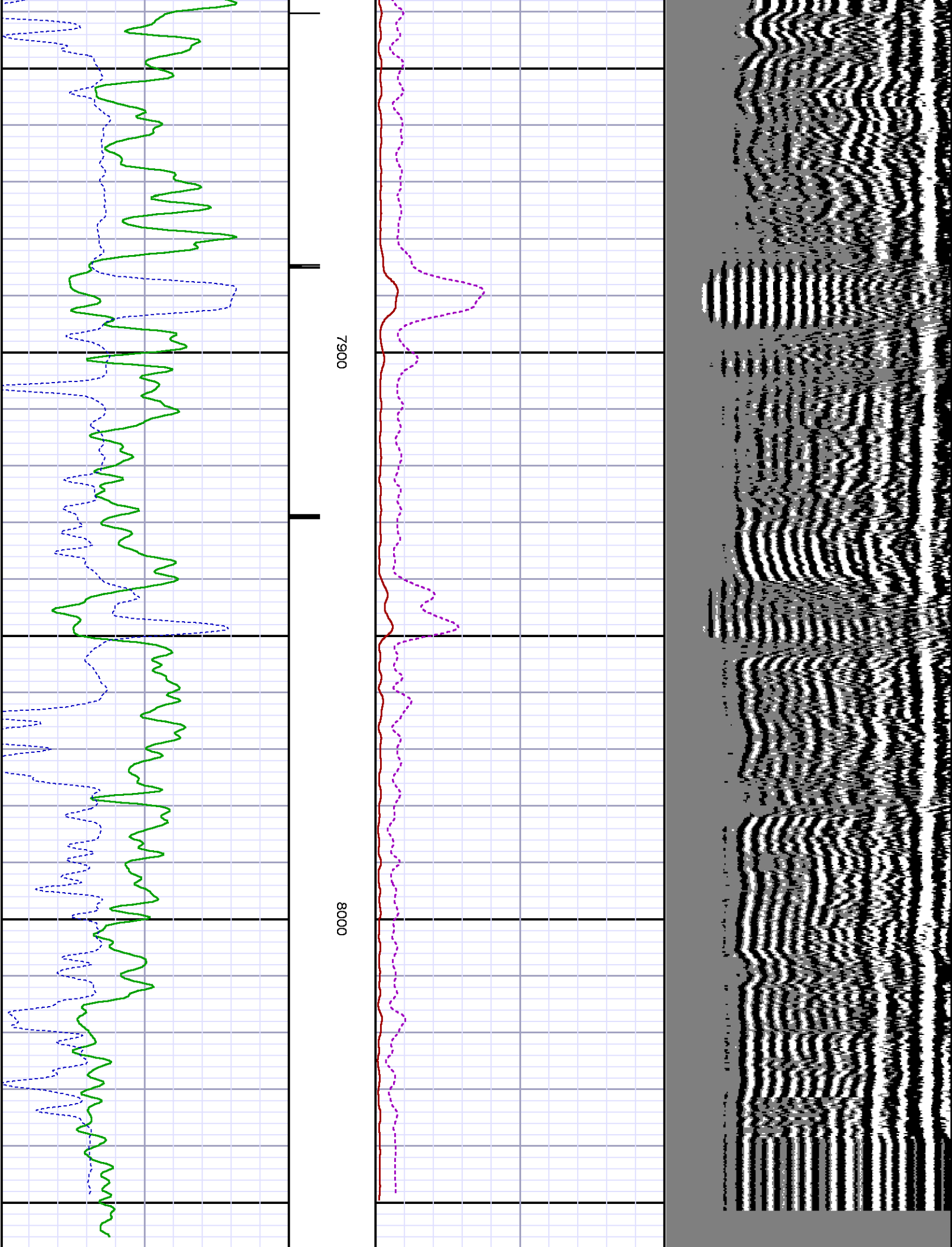
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	7746.680	8062.930
RAL	Amp Gate Start Near	195.000	usec	7746.680	8062.930
RAL	Amp Gate Start Radial	195.000	usec	7746.680	8062.930
RAL	Amp Gate Width Far	25.000	usec	7746.680	8062.930
RAL	Amp Gate Width Near	25.000	usec	7746.680	8062.930
RAL	Amp Gate Width Radial	25.000	usec	7746.680	8062.930
RAL	casing od	4.500	inches	7746.680	8062.930
RAL	casing wt	11.600	lbm/ft	7746.680	8062.930
RAL	FB Start Far	291.900	usec	7746.680	8062.930
RAL	FB Start Near	180.000	usec	7746.680	8062.930
RAL	FB Start Radial	180.000	usec	7746.680	8062.930
RAL	FB Thresh Far	10.000	mv	7746.680	8062.930
RAL	FB Thresh Near	4.000	mv	7746.680	8062.930
RAL	FB Thresh Radial	4.000	mv	7746.680	8062.930
RAL	Fluid Travel Time	200.000	usec/ft	7746.680	8062.930

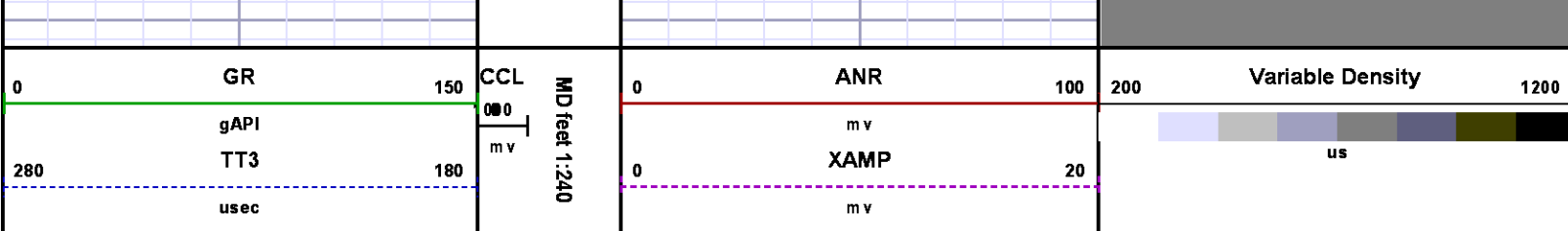
DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	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	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008
Plotted by : PlotMgr, v5.4.504
Company : WPX ENERGY
Well : GOLDSBOROUGH PA 511-11
File Name : d:\well\data\wpx energy\pa 511-11\ral511\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 7746.93 - 8062.93 feet UP
Created : 5/3/2013 5:57:59 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\539M2_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 02 09:48:46 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M2

Tool Delay [usec]	-63.00	Tank OD in	5.50	Tank Wt lbm/ft	15.50	Tank ID in	4.95
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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	216	216	30	166	25	-0.361	100.00	0.45
3 Ft. Receiver	216	216	30	157	25	-0.739	100.00	0.44
5 Ft. Receiver	323	318	25	215	25	0.061	150.00	0.47
Radial #1	216	216	30	145	25	0.133	100.00	0.44
Radial #2	216	216	30	145	25	0.039	100.00	0.44
Radial #3	216	216	30	145	25	0.022	100.00	0.45
Radial #4	216	216	30	145	25	0.022	100.00	0.45
Radial #5	216	216	30	145	25	-0.017	100.00	0.43
Radial #6	215	216	30	145	25	-0.000	100.00	0.43
Radial #7	215	216	30	145	25	-0.017	100.00	0.43
Radial #8	216	216	30	145	25	0.017	100.00	0.43

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\539M2_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 02 09:51:22 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M2

Tool Delay [usec]	-63.00	Casing OD in	4.50	Casing Wt lbm/ft	11.60	Casing ID in	4.00
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RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.184	0.000	1.00	100.000
3 Ft. Receiver	200	25	-1.952			
5 Ft. Receiver	305	25	-2.494			
Radial #1	200	25	-3.050			
Radial #2	200	25	-2.470			
Radial #3	200	25	-2.617			
Radial #4	200	25	-2.666			
Radial #5	200	25	-3.750			
Radial #6	200	25	-2.655			
Radial #7	200	25	-2.776			
Radial #8	200	25	-2.784			

GAMMA RAY

Calibration File: C:\case\calver\GR\457M2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED:		Thu May 02 09:20:49 2013		TOOL SERIES:	2459XA	ASSET:	457	SEQ:	M2
Calibrator #	Background	Calibrator On		Multiplicative	Background	Calibrator On	Differential		
	[cps]	[cps]			[api]	[api]	[api]		
S2K VBA905	59.75	271.24		0.875	52.26	237.26	185.00		

Verification File: C:\case\calver\GR\457M2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED:		Thu May 02 09:26:14 2013		TOOL SERIES:	2459XA	ASSET:	457	SEQ:	M2
Calibrator #	Background	Calibrator On		Multiplicative	Background	Calibrator On	Differential		
	[cps]	[cps]			[api]	[api]	[api]		
S2K VBA905	59.42	262.58		0.875	51.98	229.68	177.71		

TOOL DIAGRAM

OTA SHORT CABLE HEAD



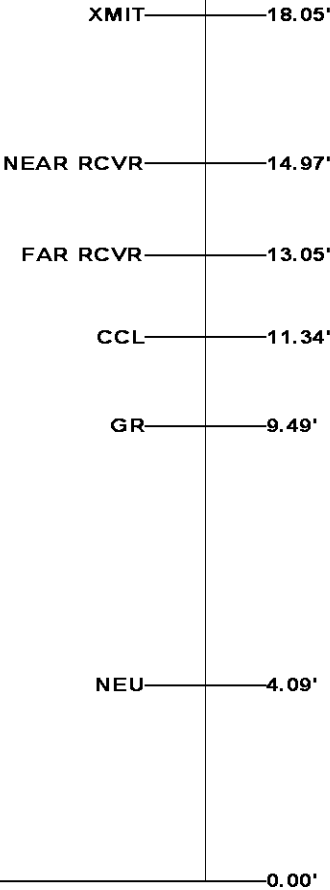
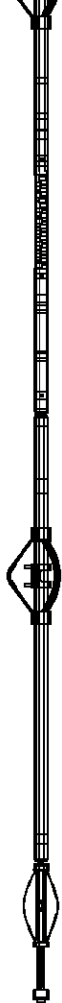
24.23'



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

CENTRALIZER	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Total Length: 24.23'
 Total Weight: Not Available
 Max Diameter: 0' 3.12"



<div>  BAKER HUGHES </div> <div> Baker Atlas  </div>	<div>Company</div> <div>WPX ENERGY</div>	<div>File No:</div> <div>CH071655</div>
	<div>Well</div> <div>GOLDSBOROUGH PA 511-11</div>	<div>API No:</div> <div>05045218170000</div>
	<div>Field</div> <div>PAPRCHUTE</div>	
	<div>County</div> <div>GARFIELD</div> <div>State</div> <div>COLORADO</div>	
<div>Location</div> <div>SHL: 2402' FNL, 2037' FWL</div> <div>BHL: 1103' FNL, 639' FWL</div> <div> <div>SEC</div> <div>11</div> <div>TWP</div> <div>7S</div> <div>RGE</div> <div>95W</div> </div>	<div>Elevations</div> <div>KB 6300 ft</div> <div>DF</div> <div>GL 6274 ft</div> <div> PA 22-11 PAD 11 7S 95W CYCLONE 17 </div>	