



# Radial Cement Bond Log

Company Kerr-McGee Oil & Gas Onshore, L.P.				Company Kerr-McGee Oil & Gas Onshore, L.P.			
Well Gobbler 29N-23HZ				Well Gobbler 29N-23HZ			
Field Wattenberg				Field Wattenberg			
County Weld				County Weld			
State Colorado				State Colorado			
Location:				API # : 05-123-37064		Other Services	
SHL: 240' FSL, 2165' FEL SWSE				CIL			
SEC 23 TWP 2N RGE 66W				Elevation			
Permanent Datum		Ground Level		Elevation		K.B. 5115'	
Log Measured From		Kelly Bushing @ 13 FT		Elevation		D.F. 5114'	
Drilling Measured From		Kelly Bushing		Elevation		G.L. 5102'	
Date July 28, 2013							
Run Number		One					
Depth Driller		11,750 FT					
Depth Logger		6,818 FT					
Bottom Logged Interval		6,818 FT					
Top Log Interval		Surface					
Open Hole Size		8,750"					
Type Fluid		Water					
Density / Viscosity		8.34 lbm/gal					
Max. Recorded Temp.		----					
Estimated Cement Top		56.8 FT					
Time Well Ready		ROA					
Time Logger on Bottom		12:00					
Equipment Number		HD-0134					
Location		Ft. Lupton, CO					
Recorded By		J. Raby					
Witnessed By		T.J. Yates					
Borehole Record				Tubing Record			
Run Number		Bit		From		To	
Casing Record		Size (in)		Wgt (lbs/Ft)		Grade	
Surface Casing		9.625"		36			
Intermediate #1		7"		26			
Intermediate #2							
Liner		4.5"		11.6			

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments

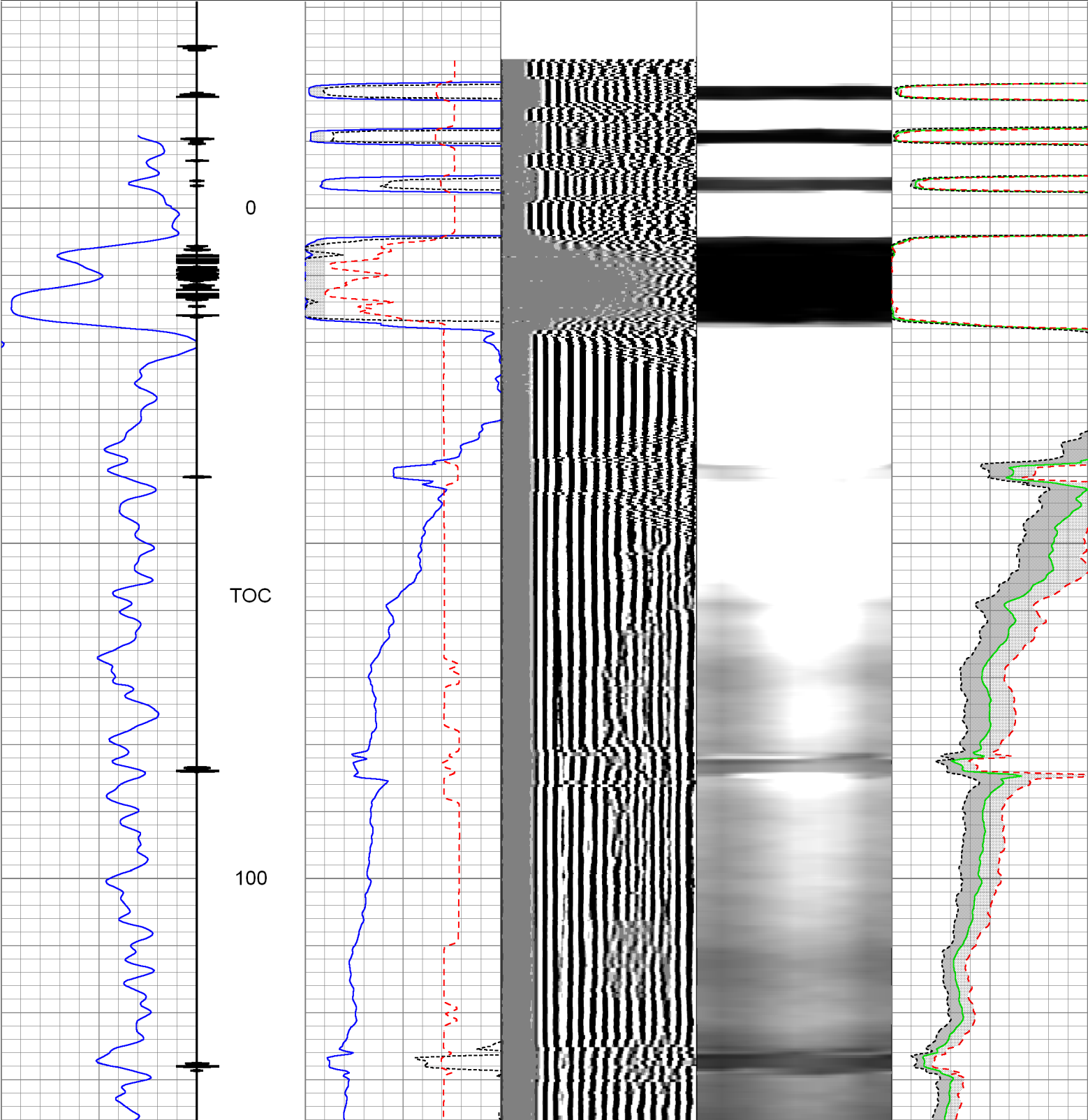
Log is Correlated To The Liner Top @ 6,768'

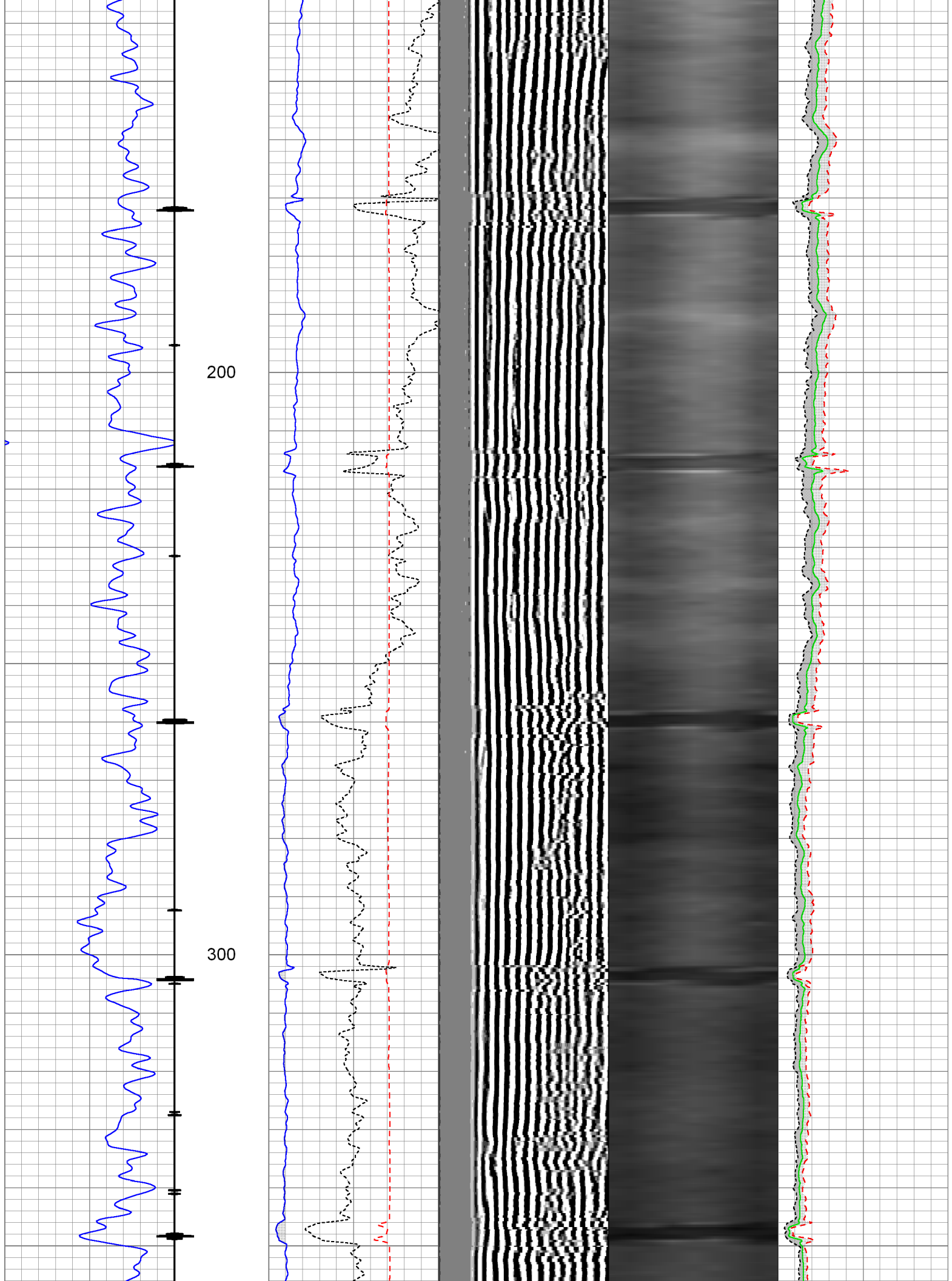
Thank You For Choosing FMC Technologies Completion Services, Inc.

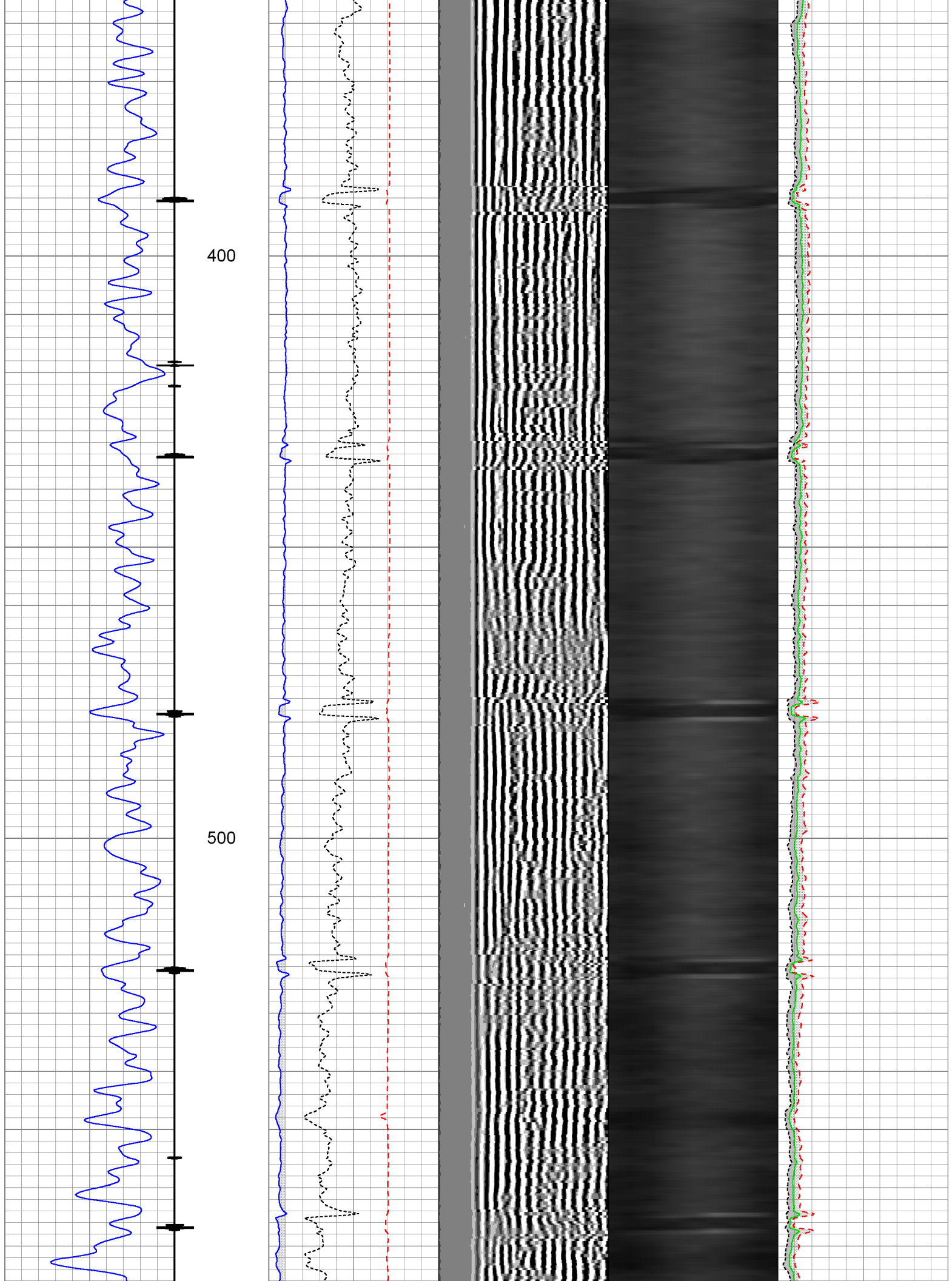


# Main Pass: 2700 Psi

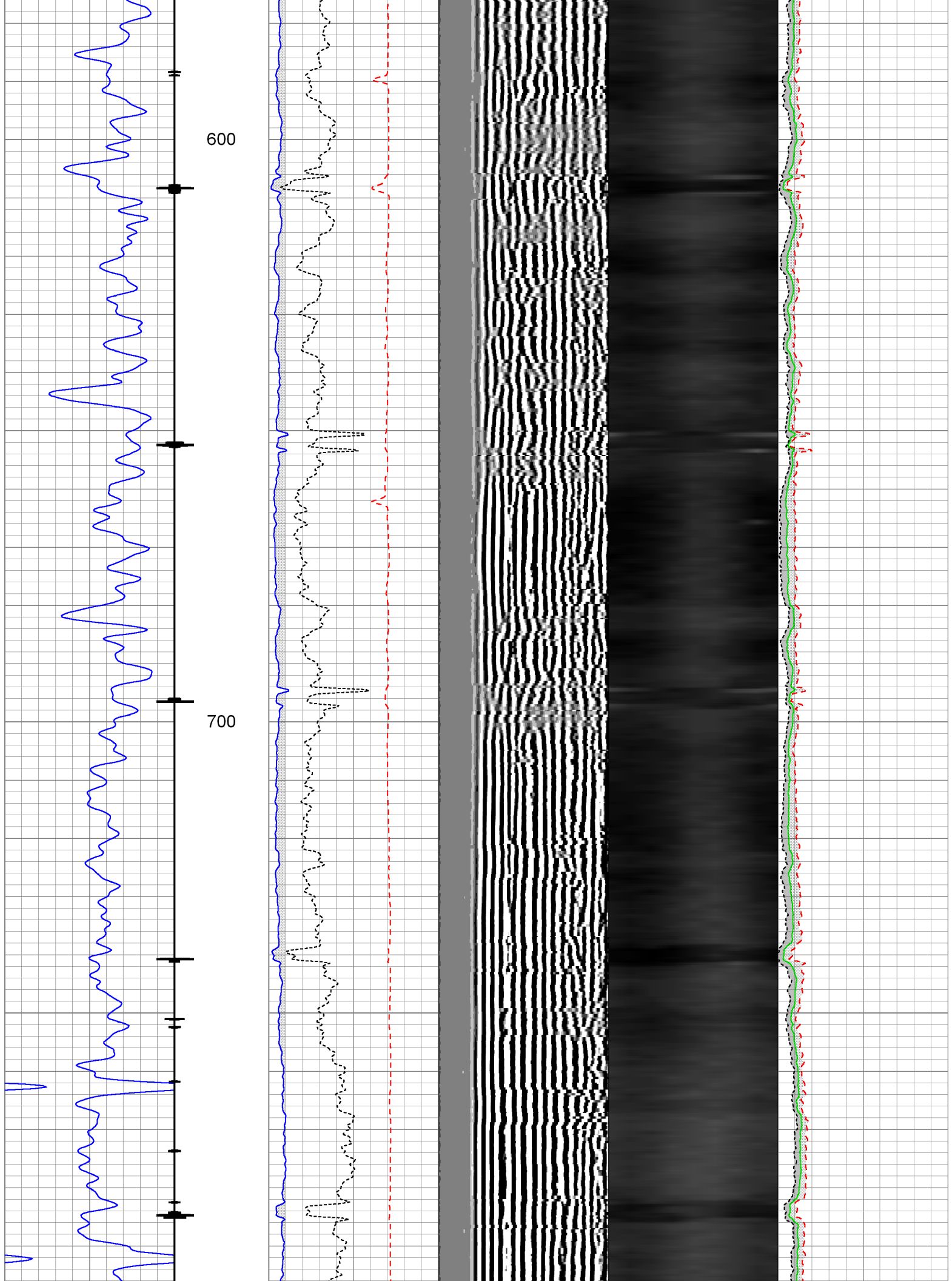
0	Gamma Ray 120	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
	Collar Locator	0 (mV) 100	200 1200		0 100
		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100

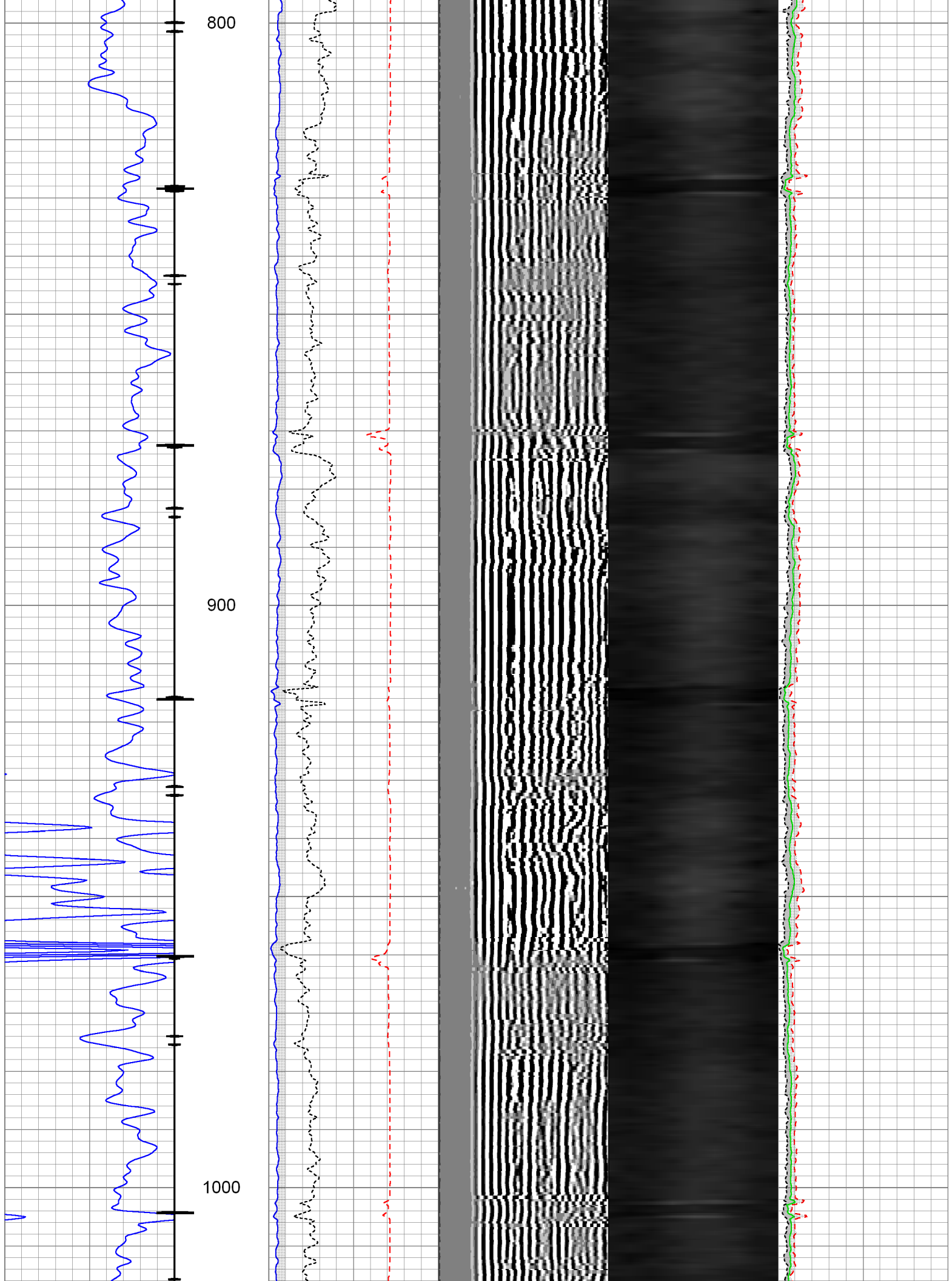


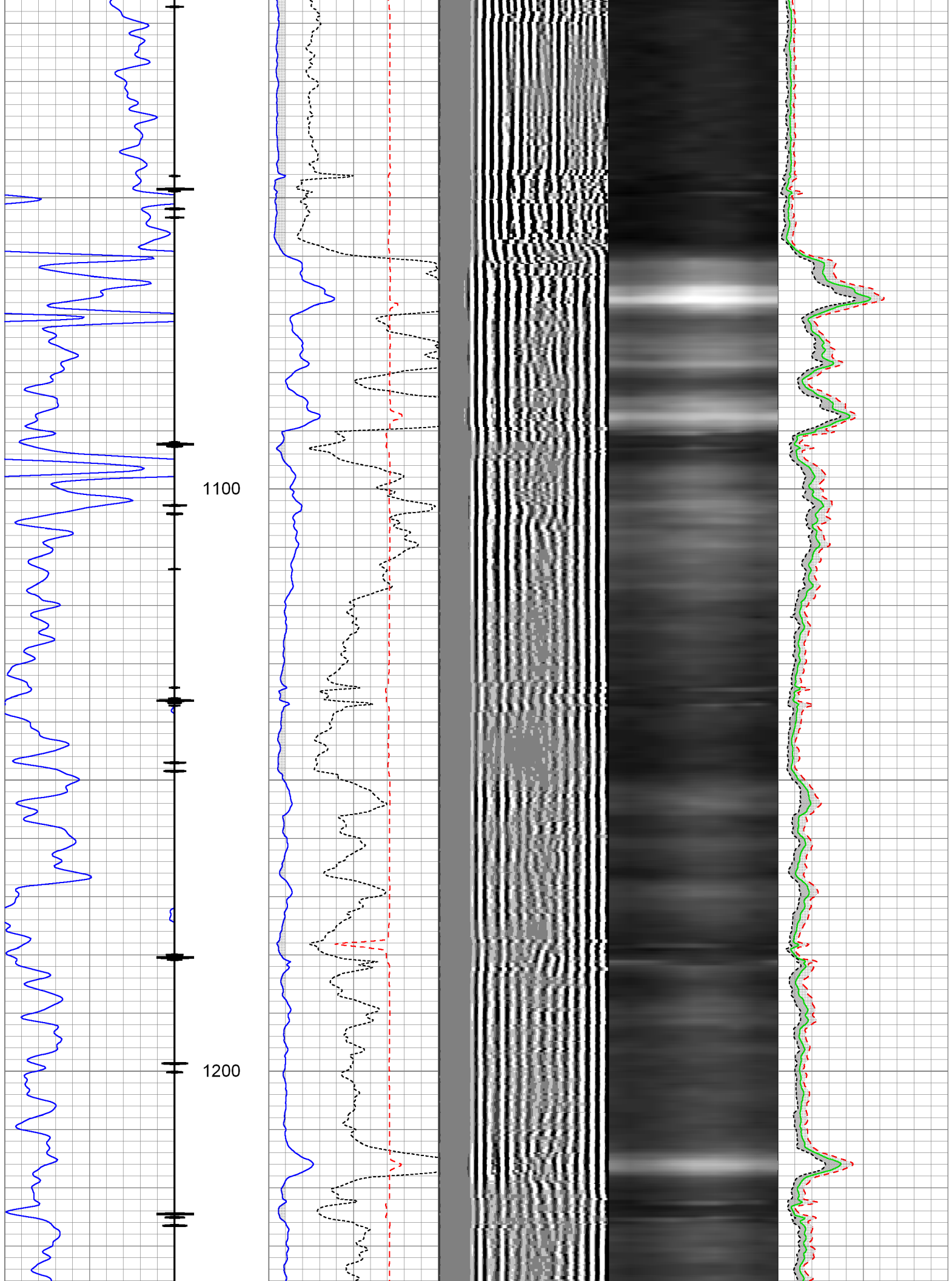


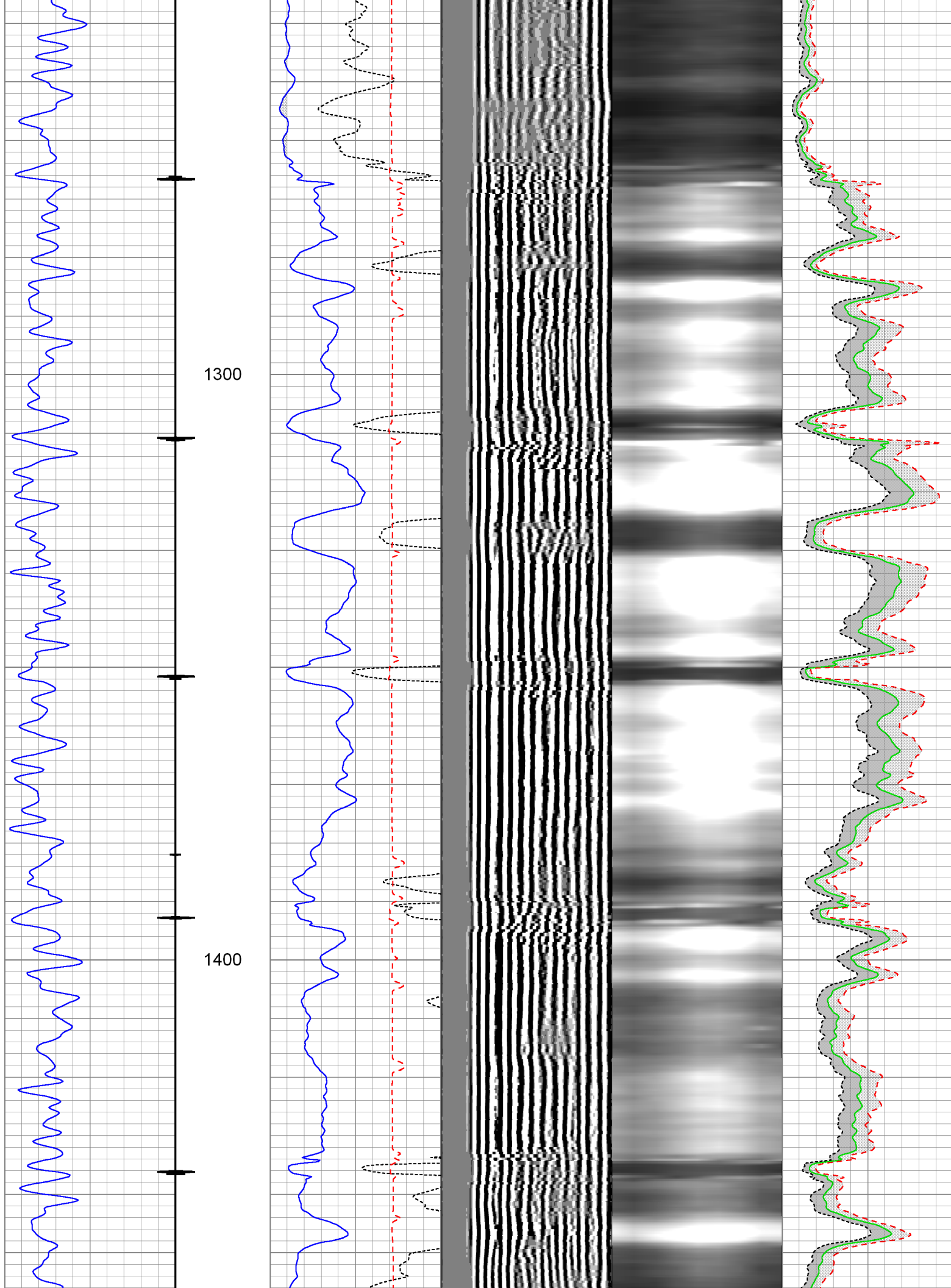


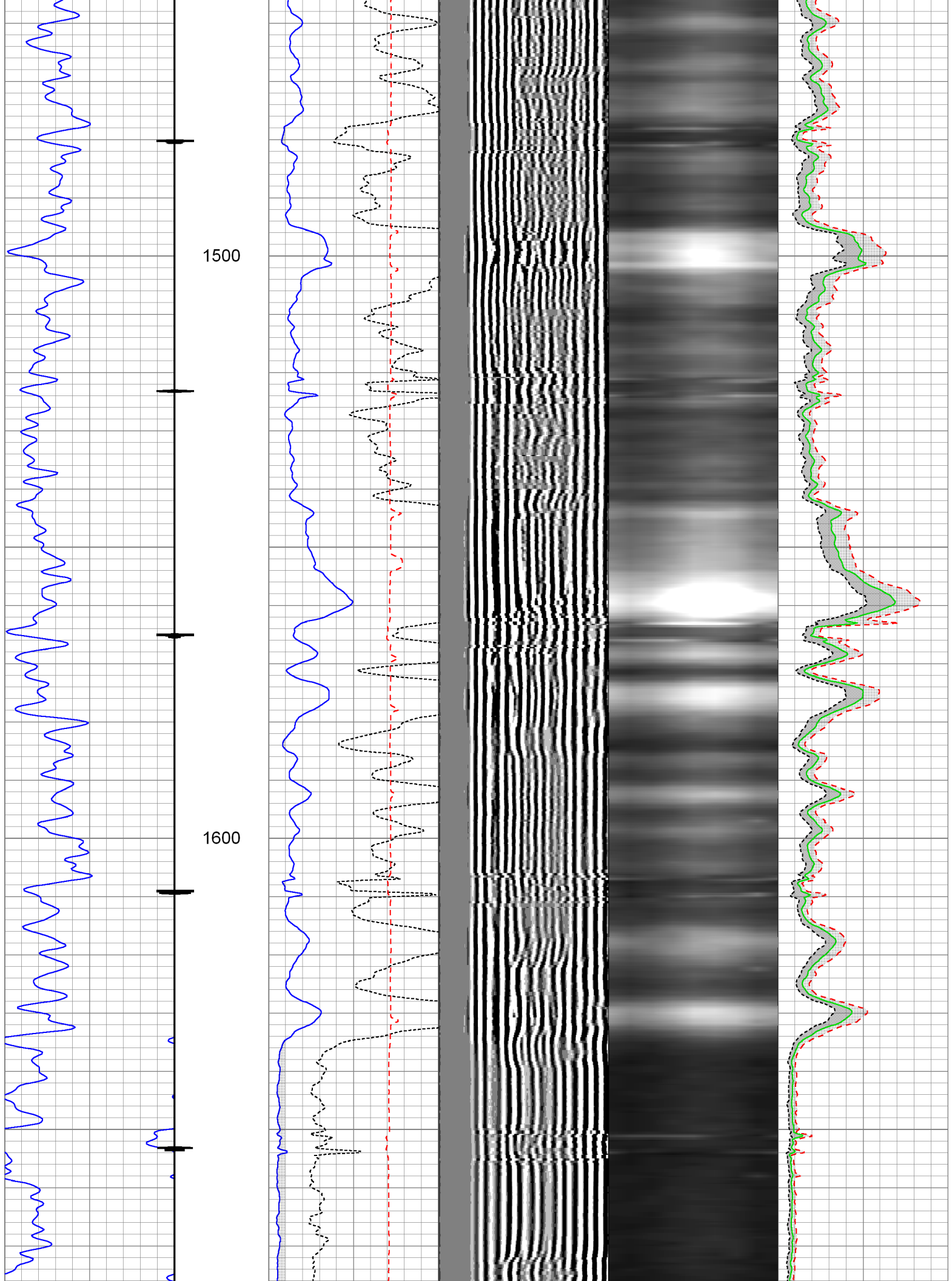




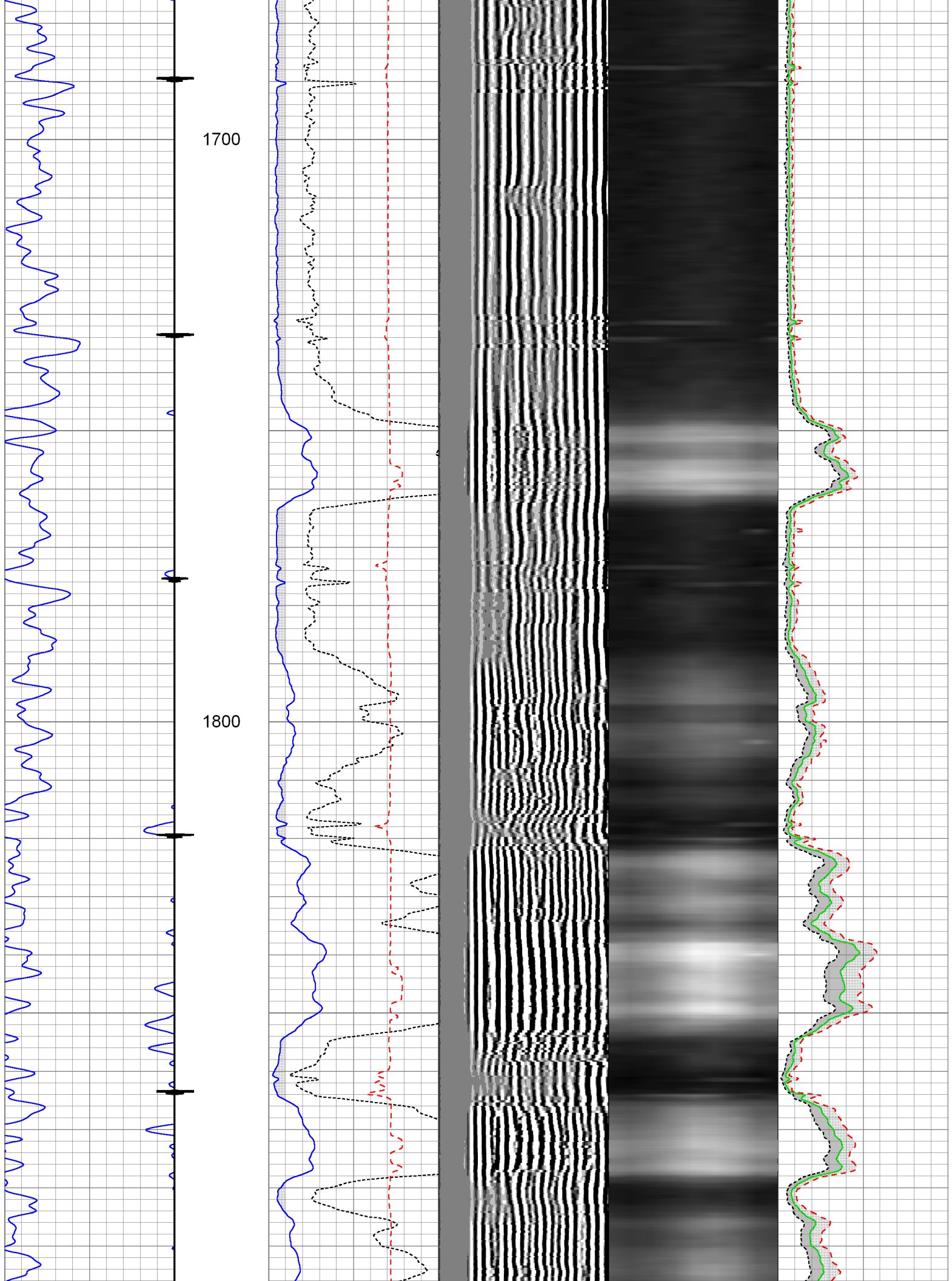




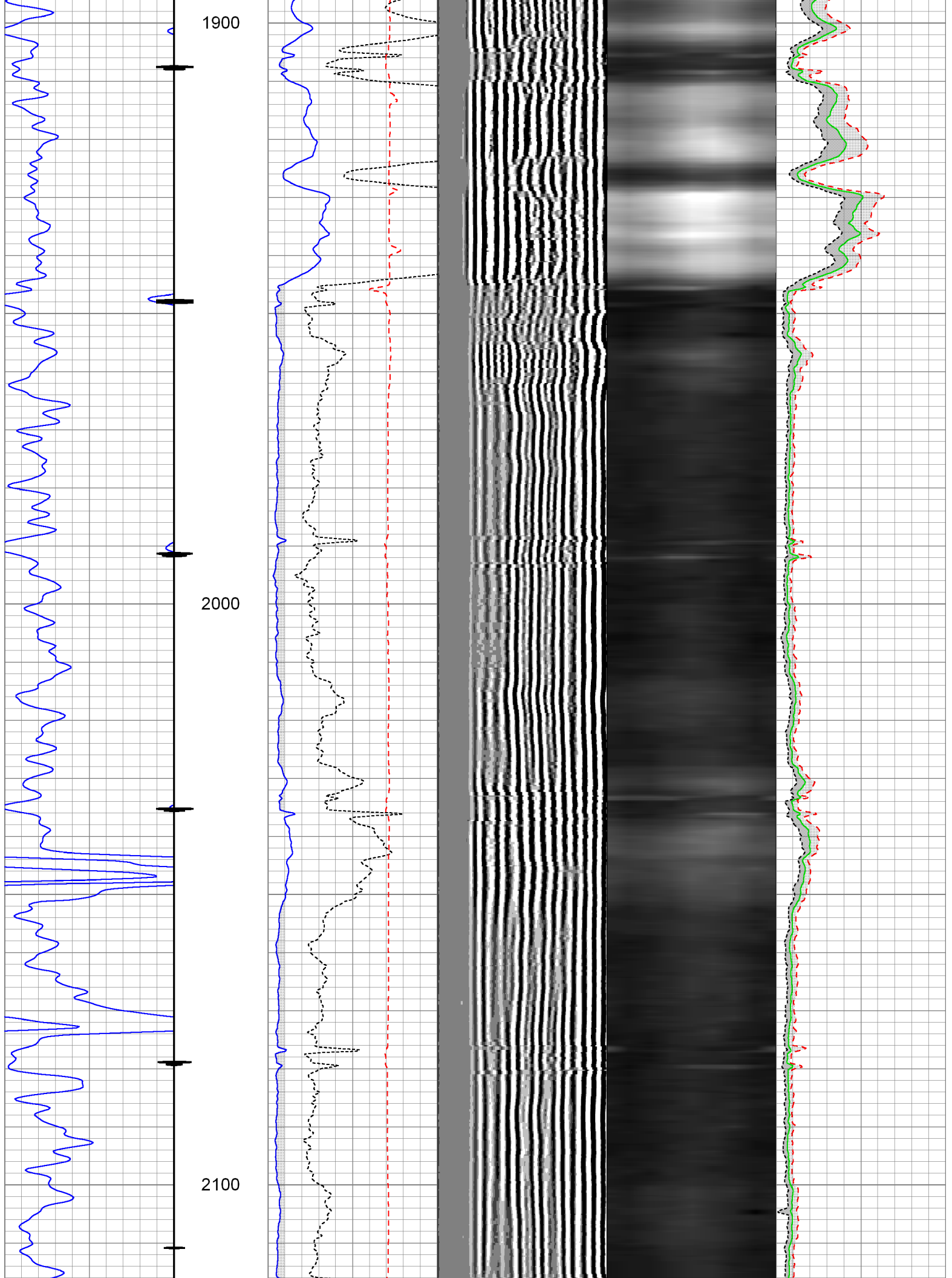


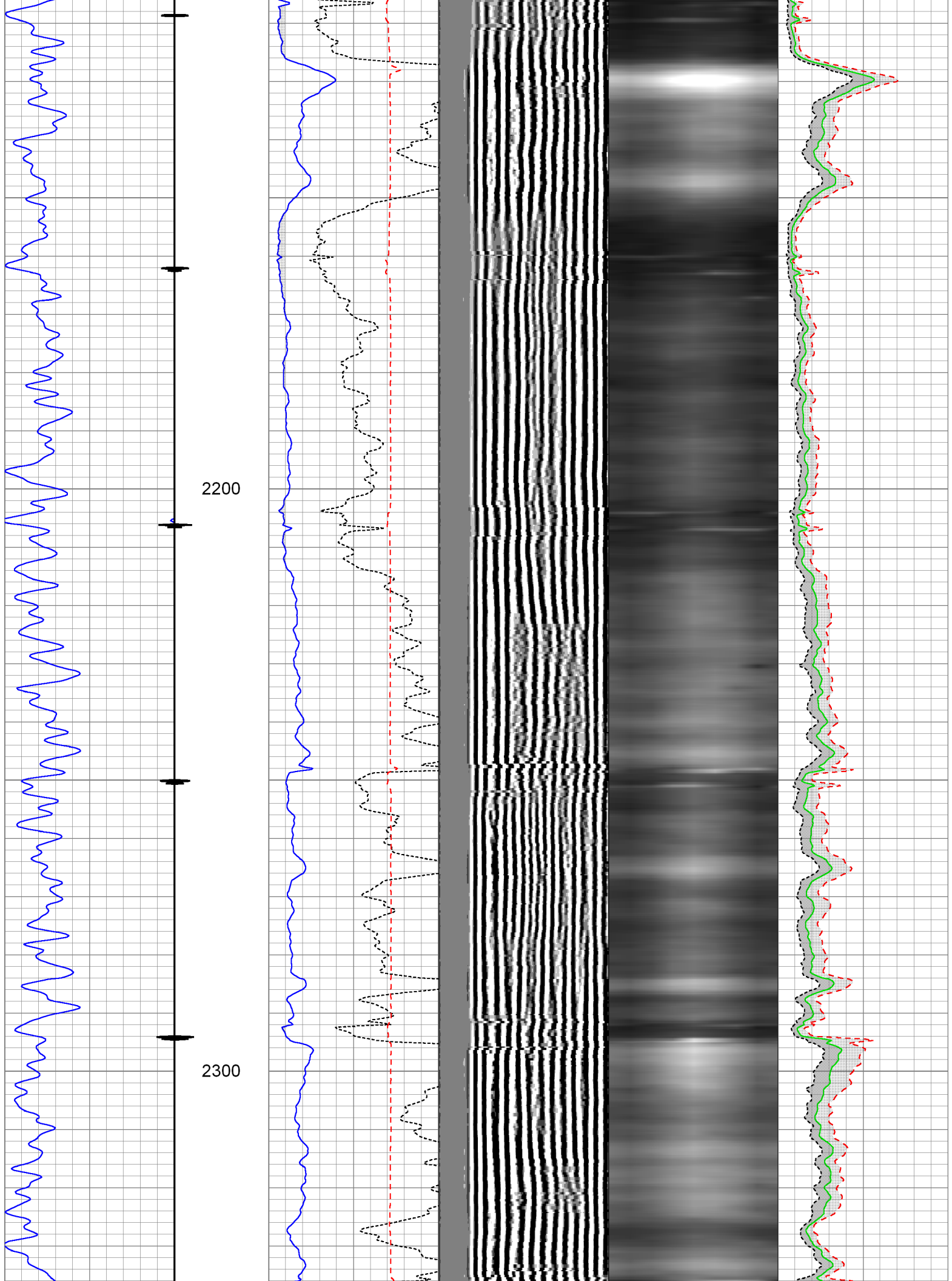


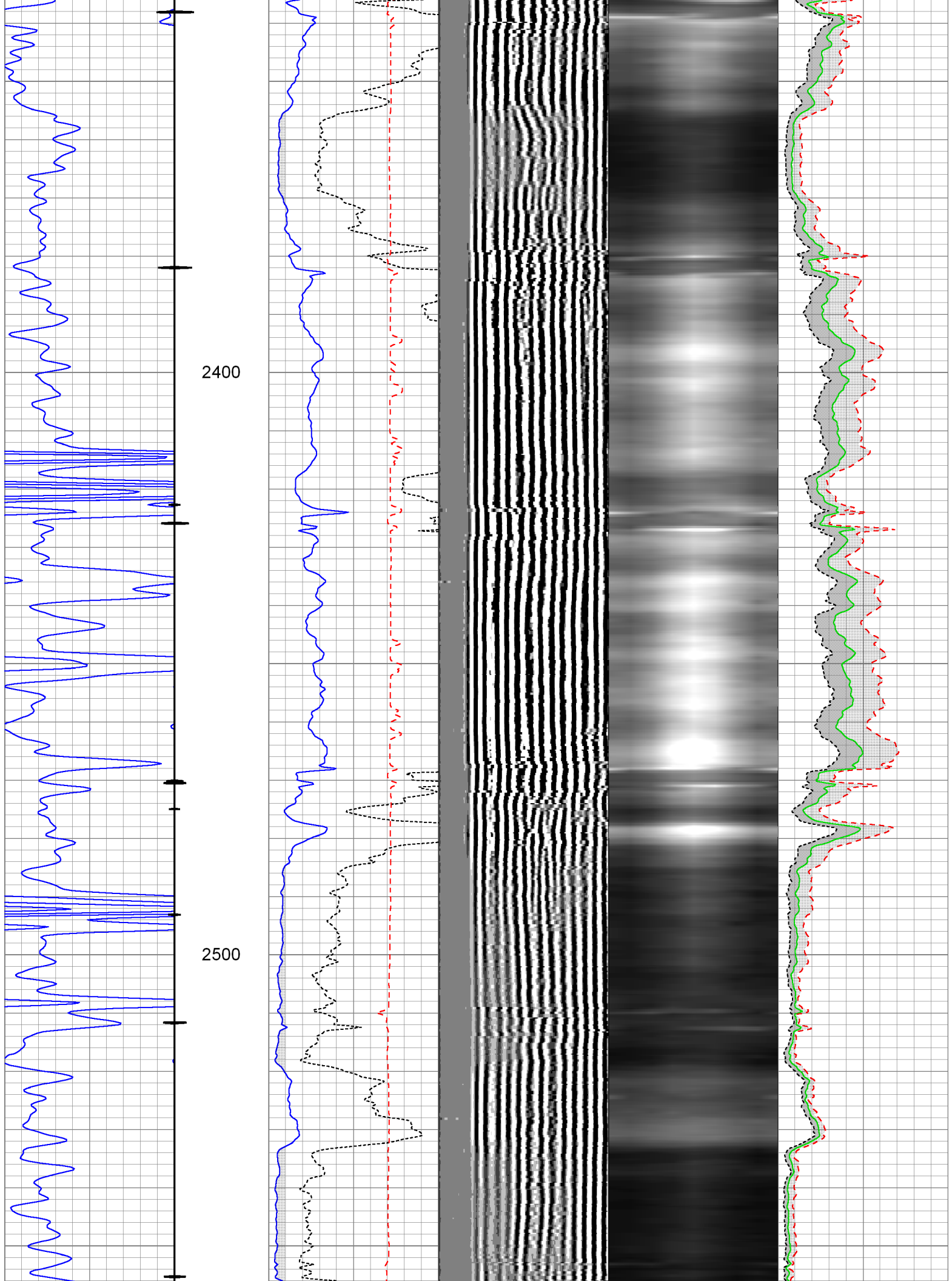


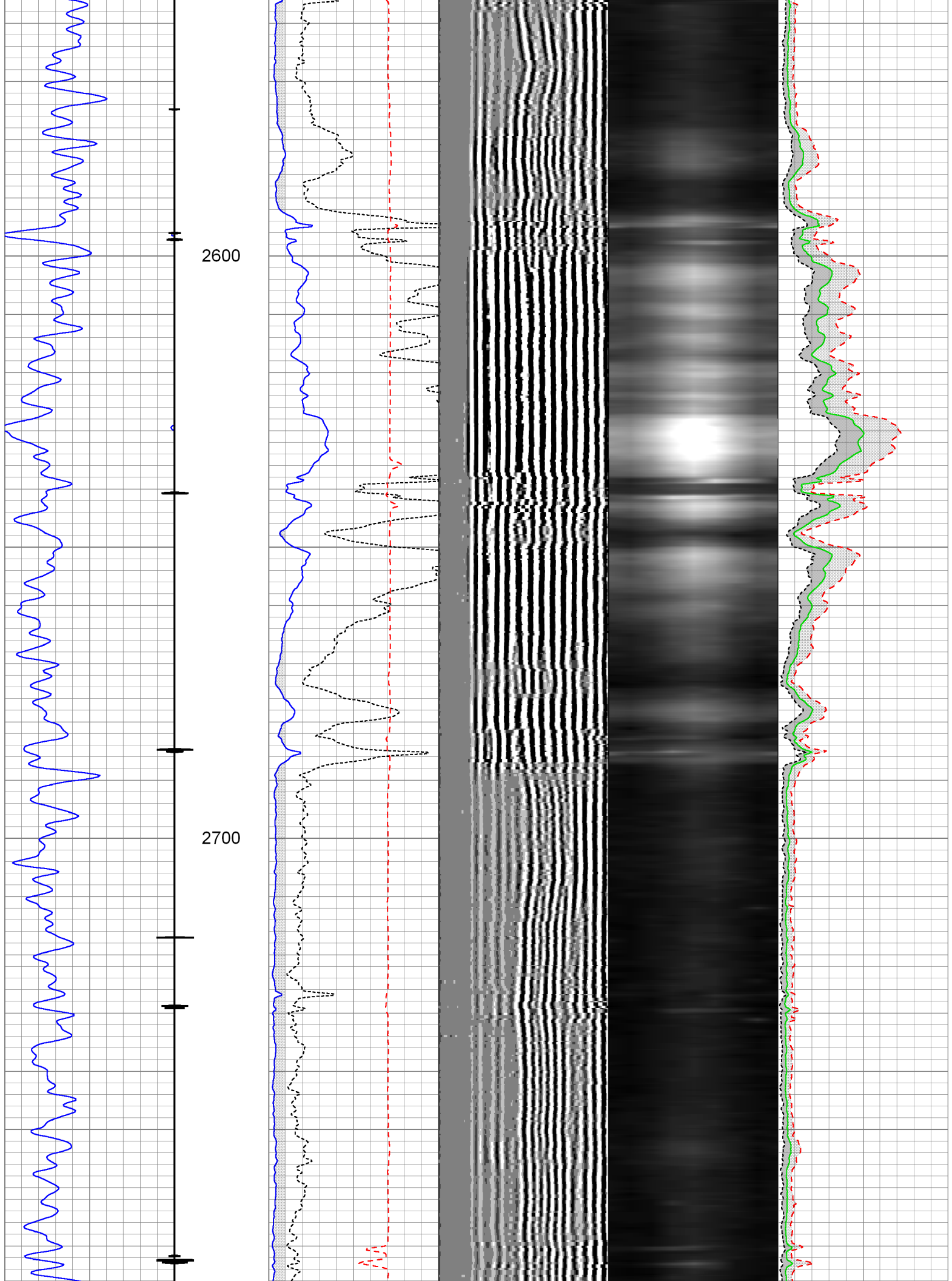


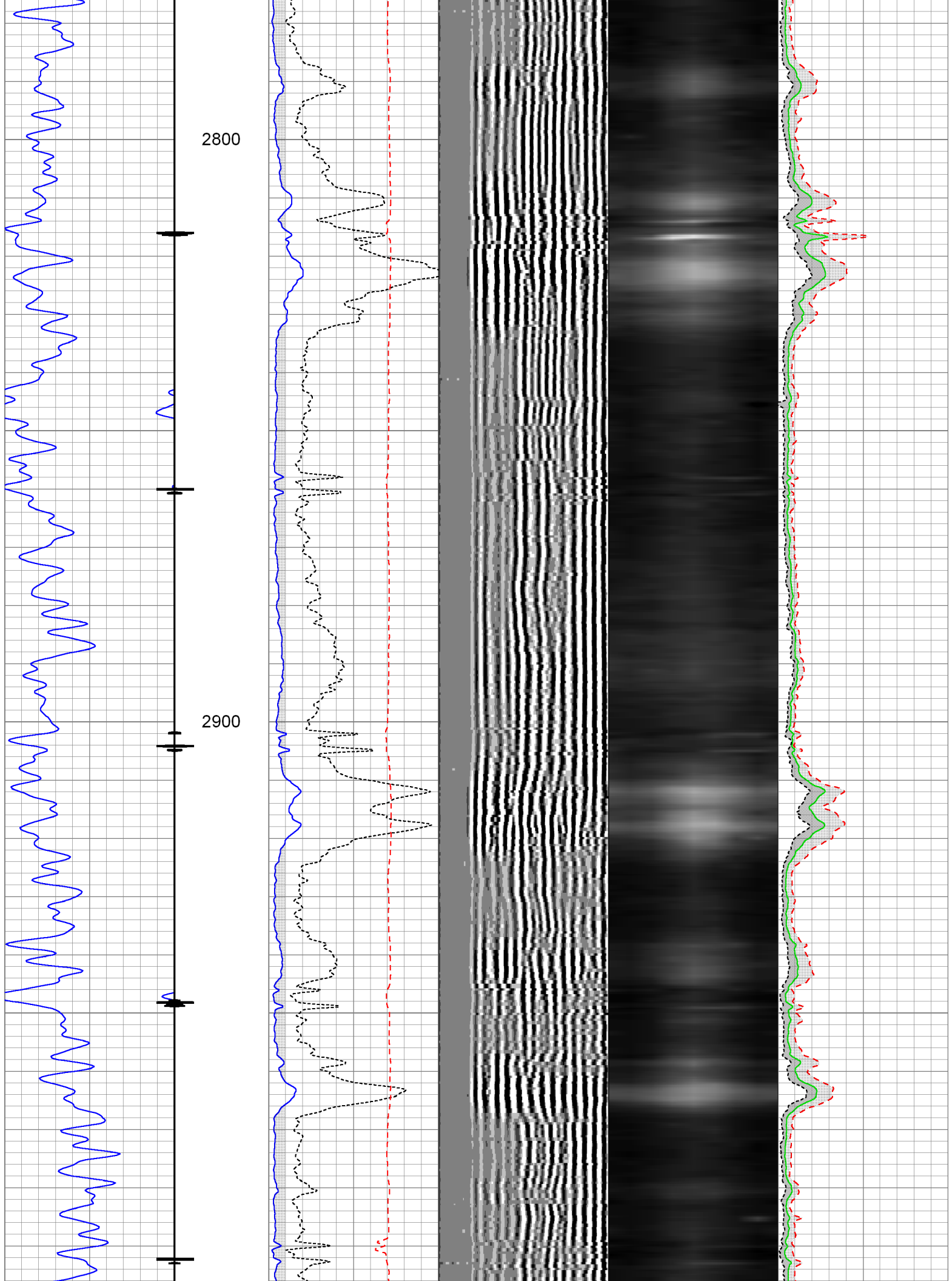




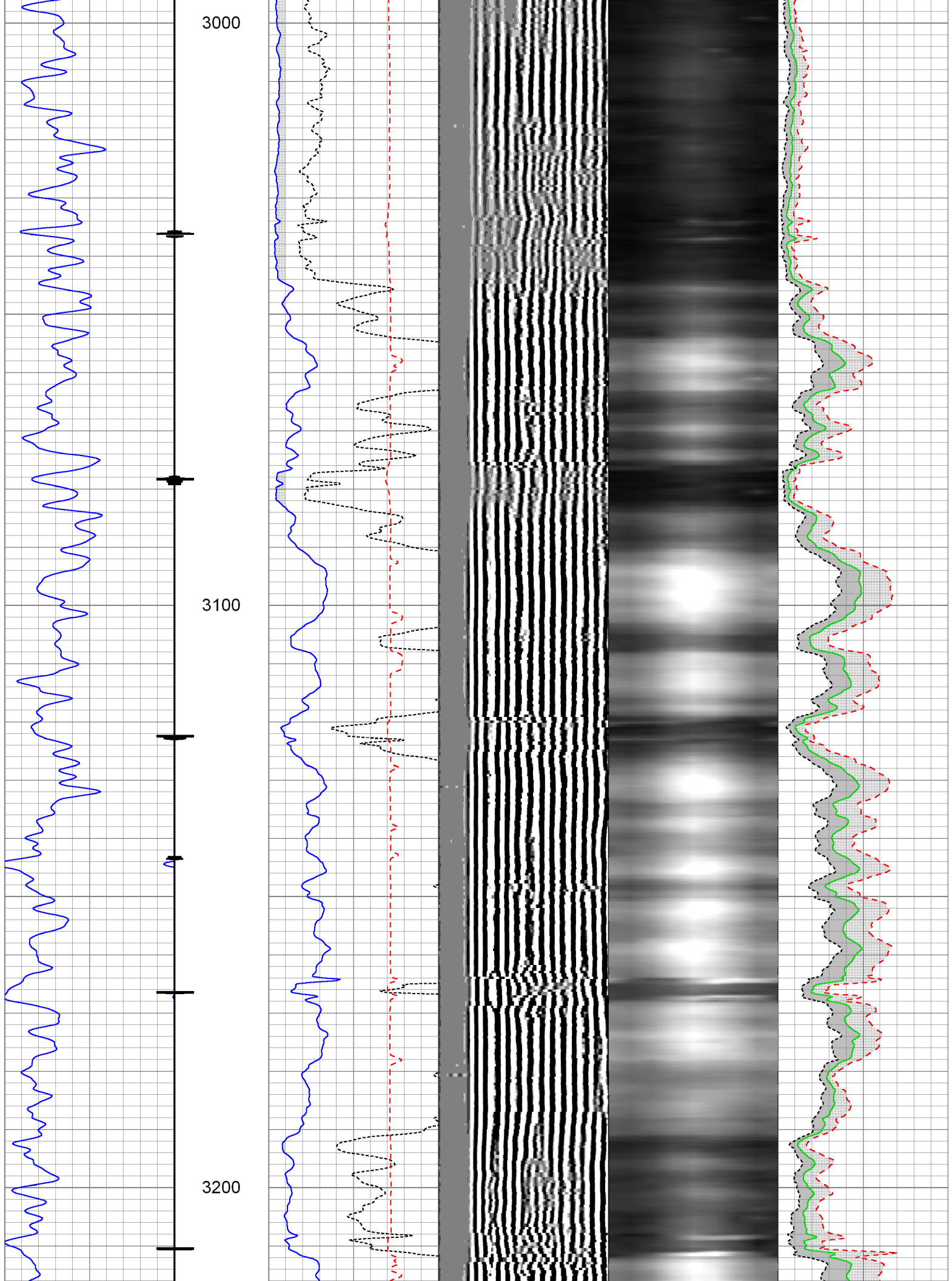




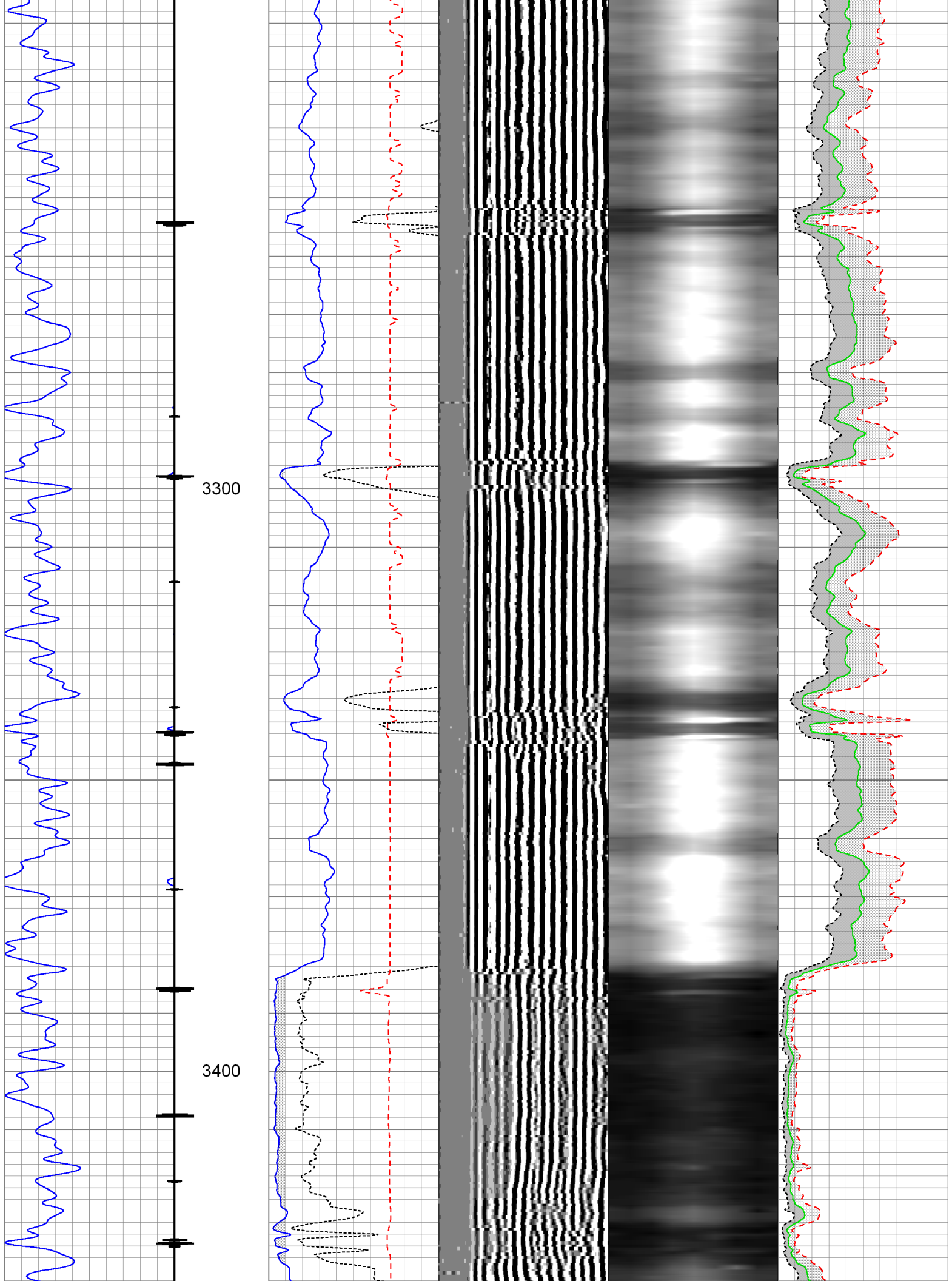


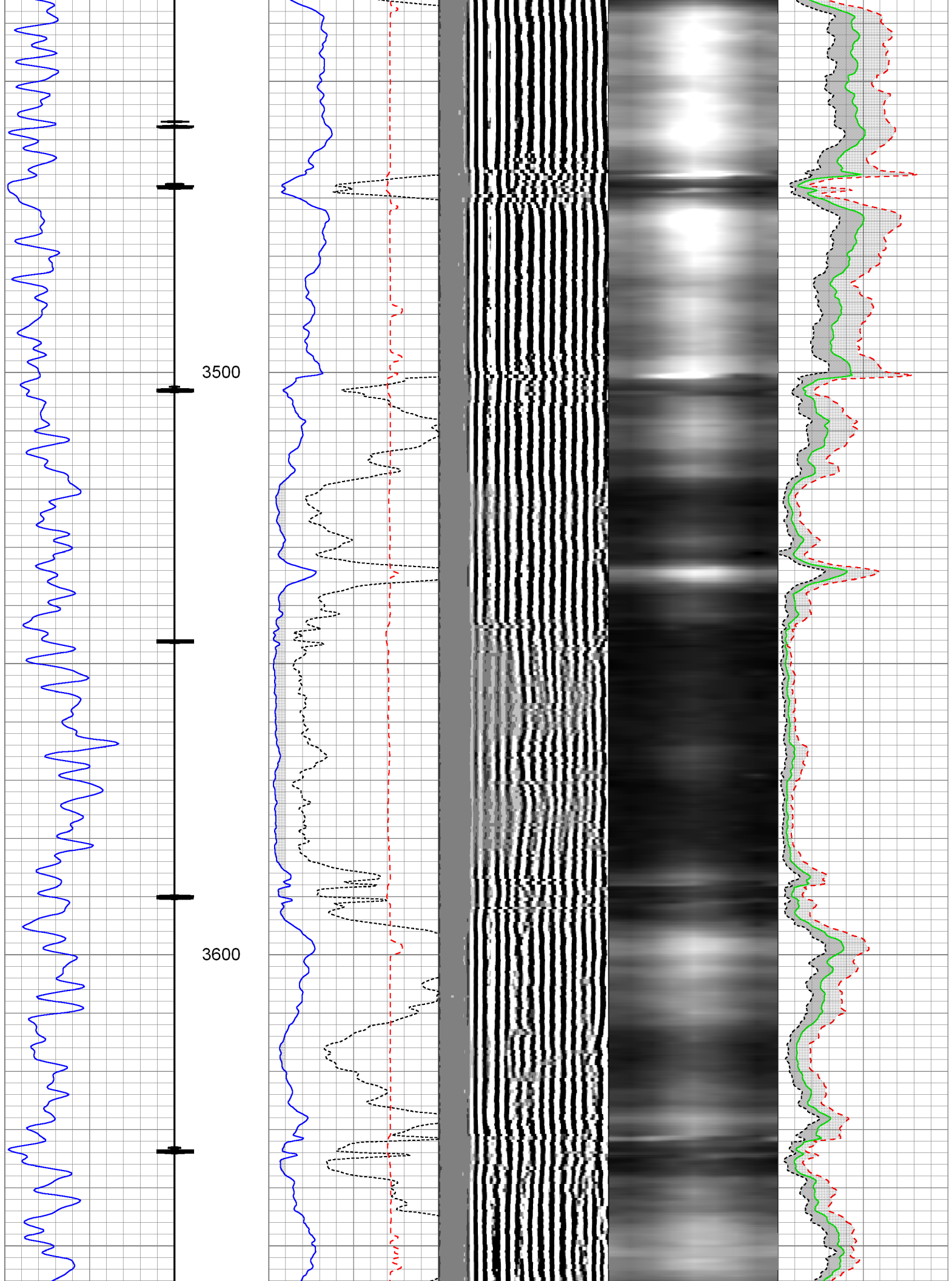


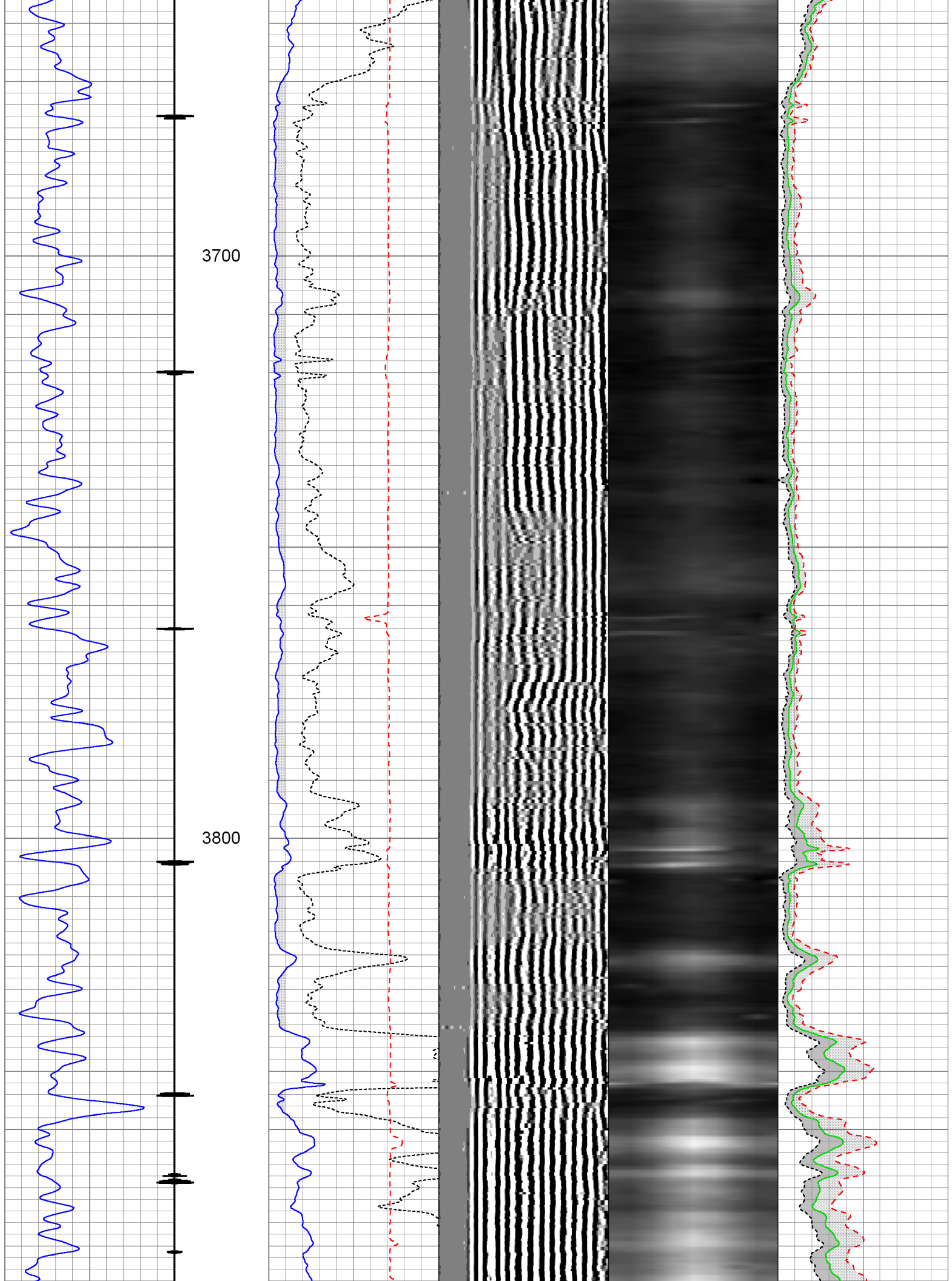


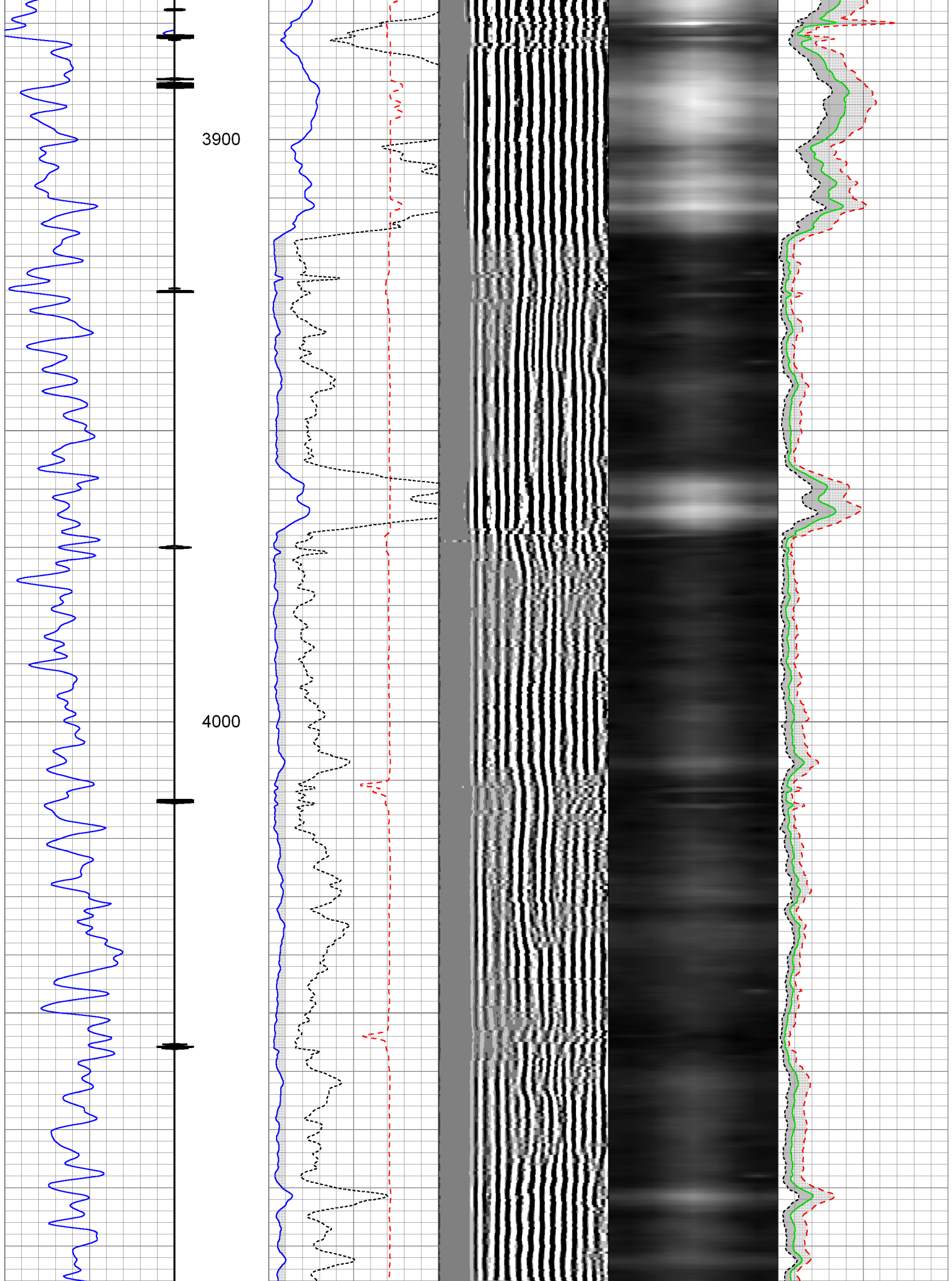




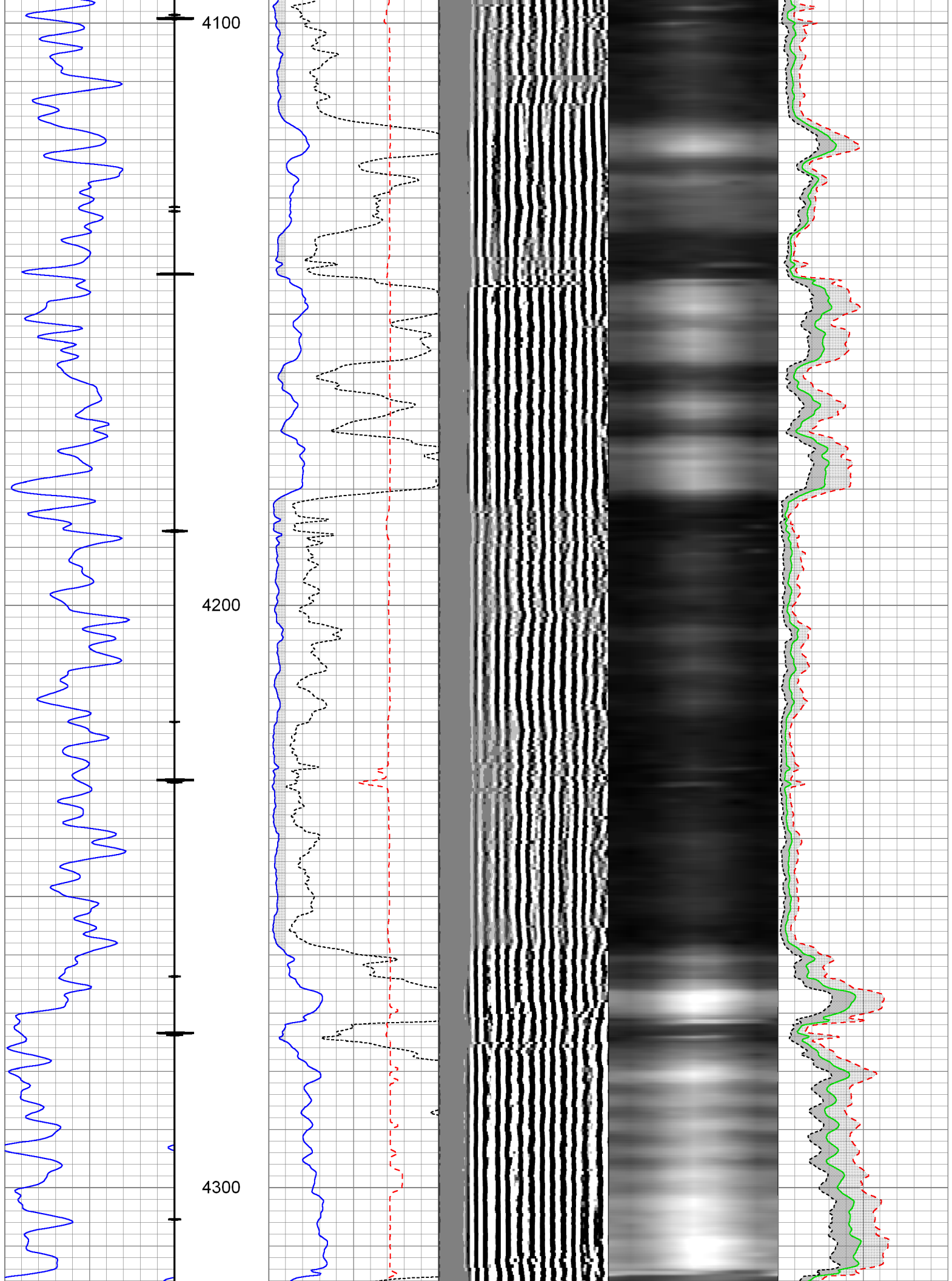


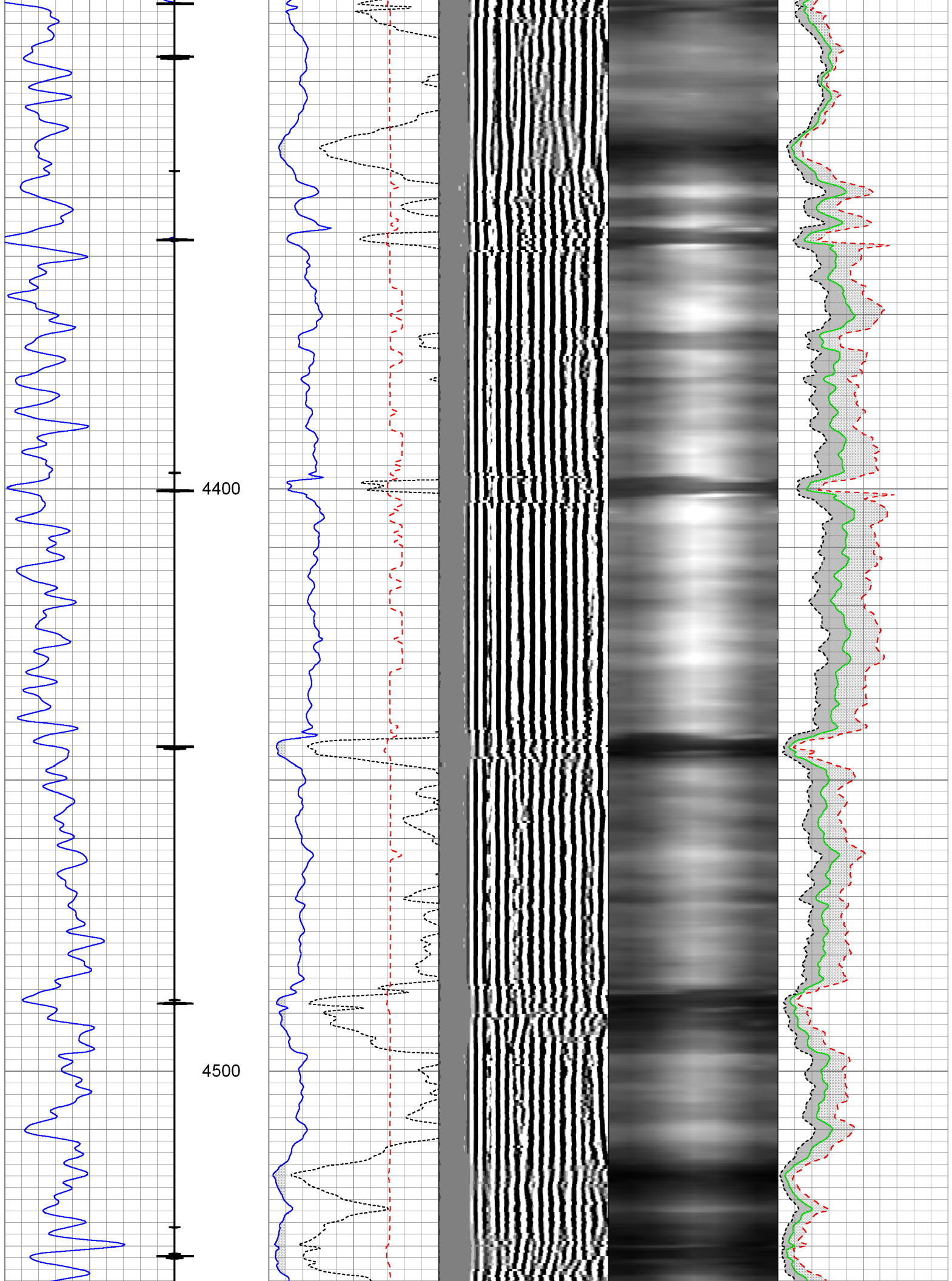




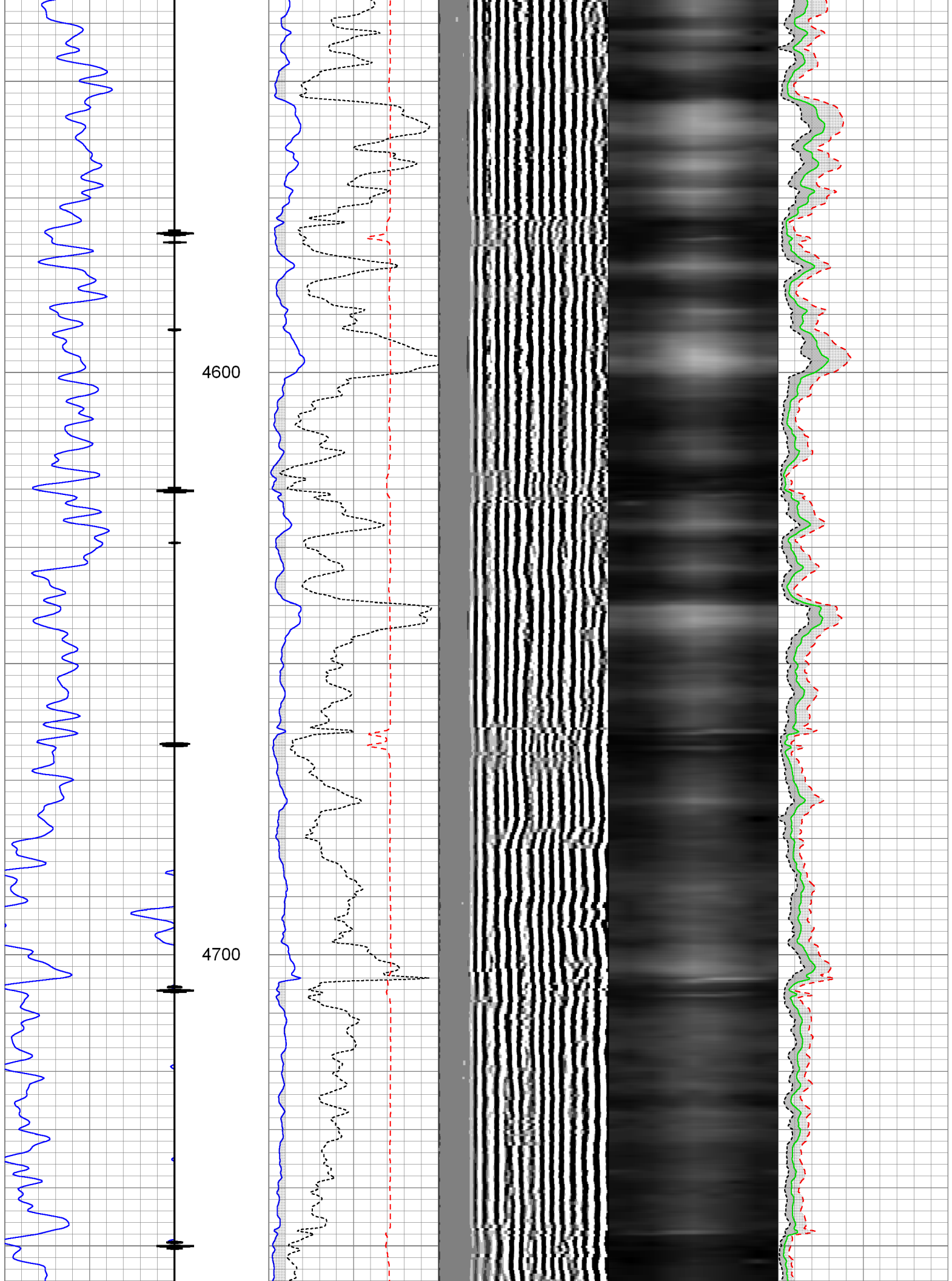


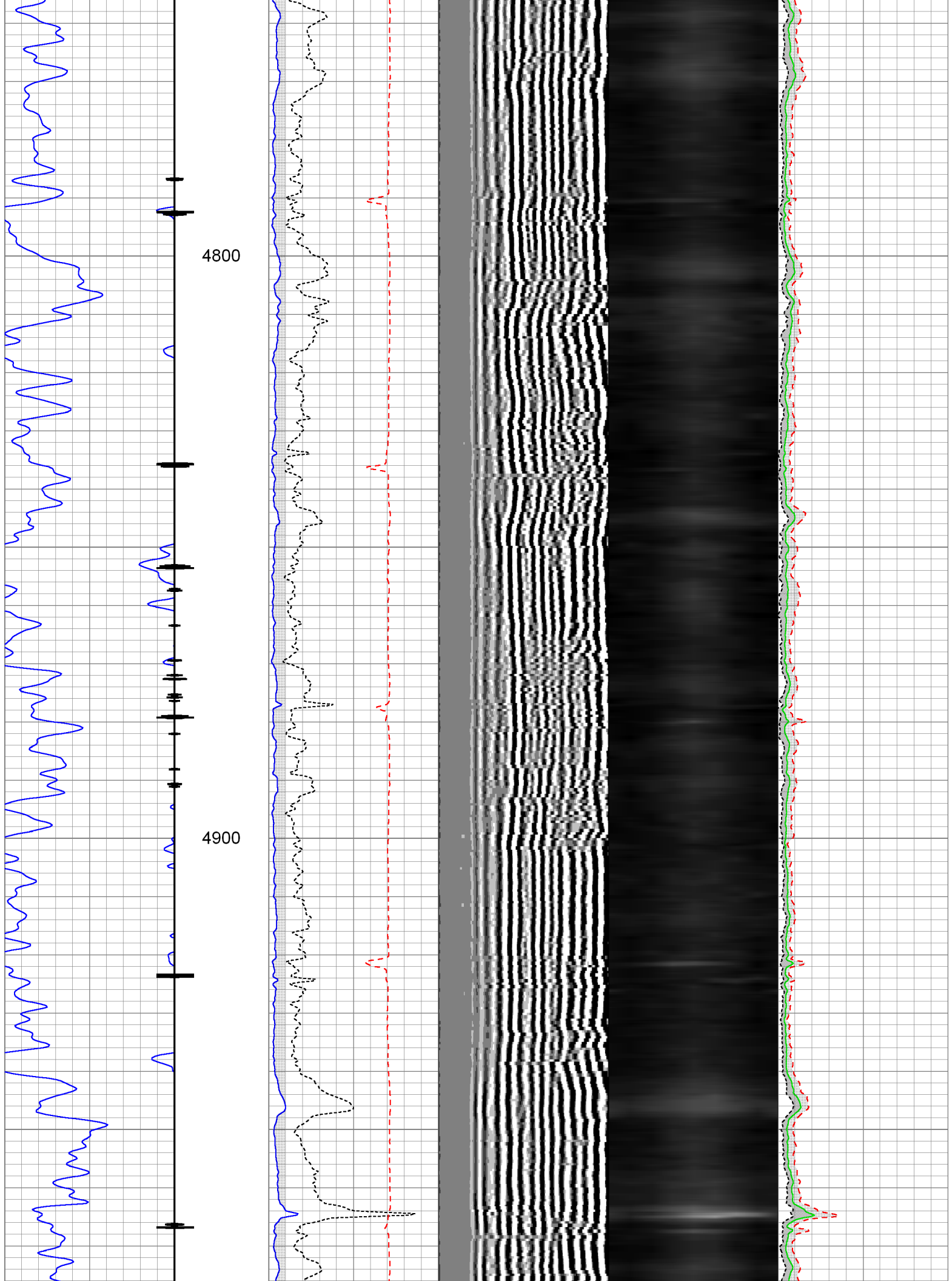


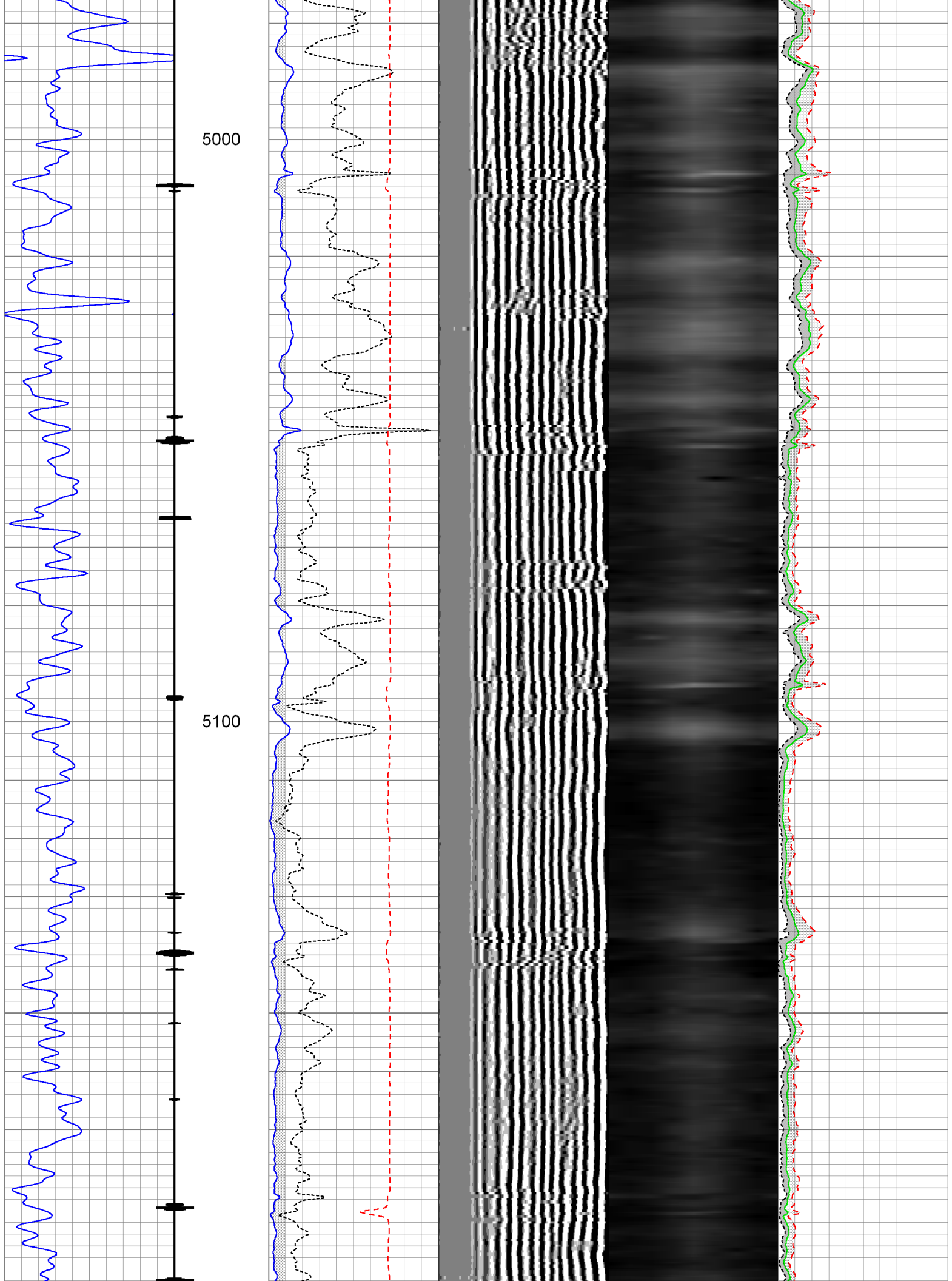


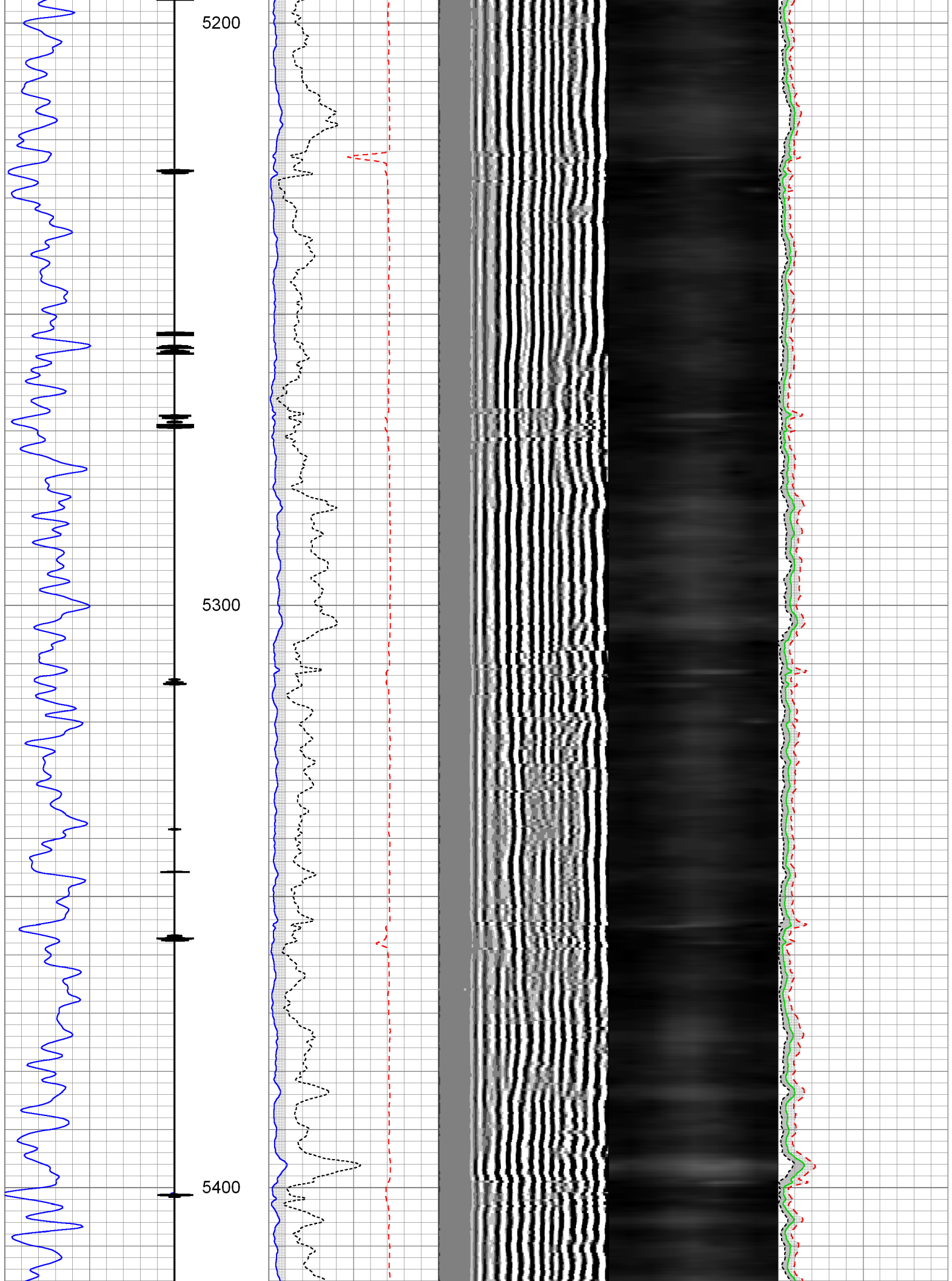


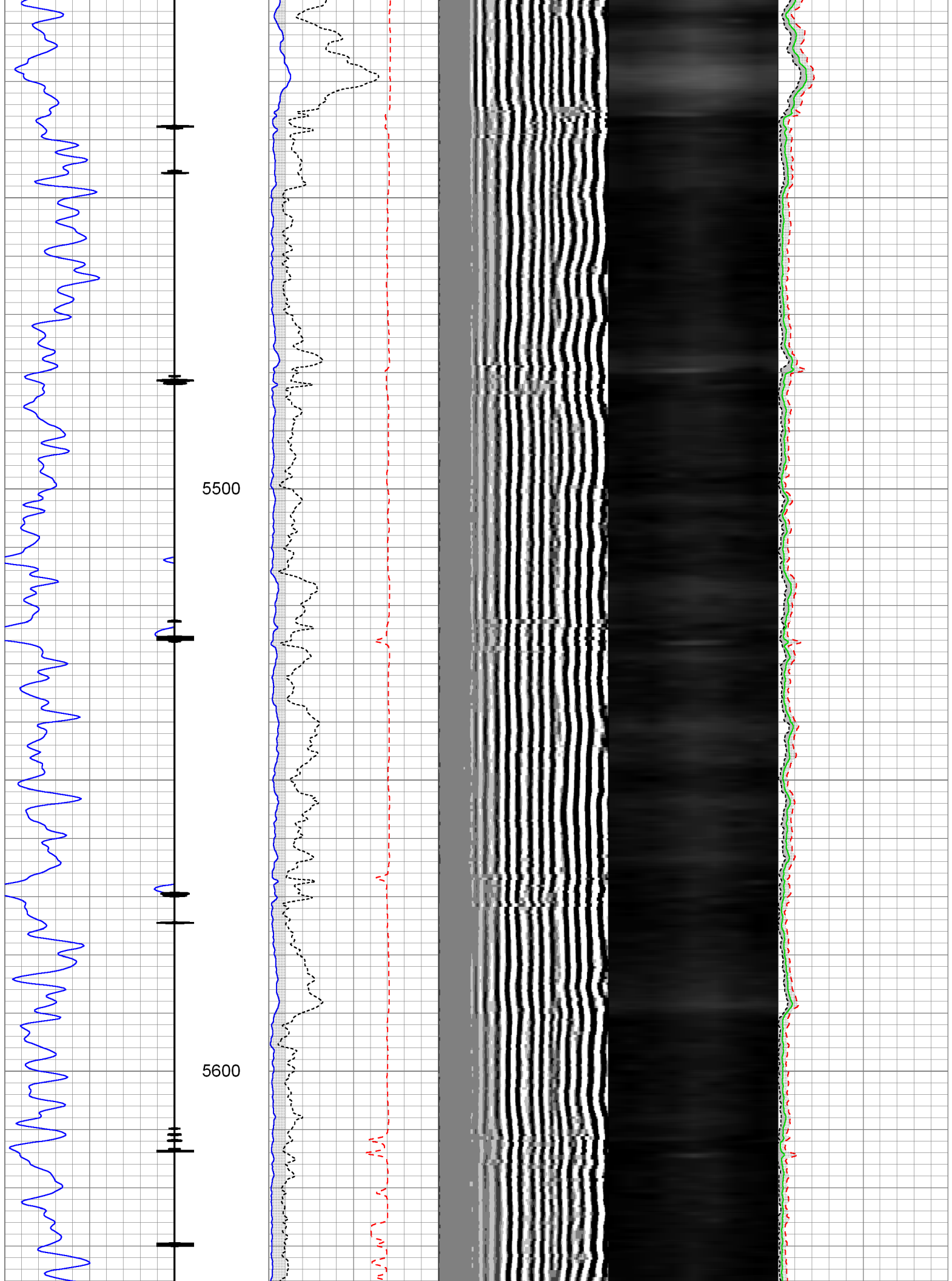




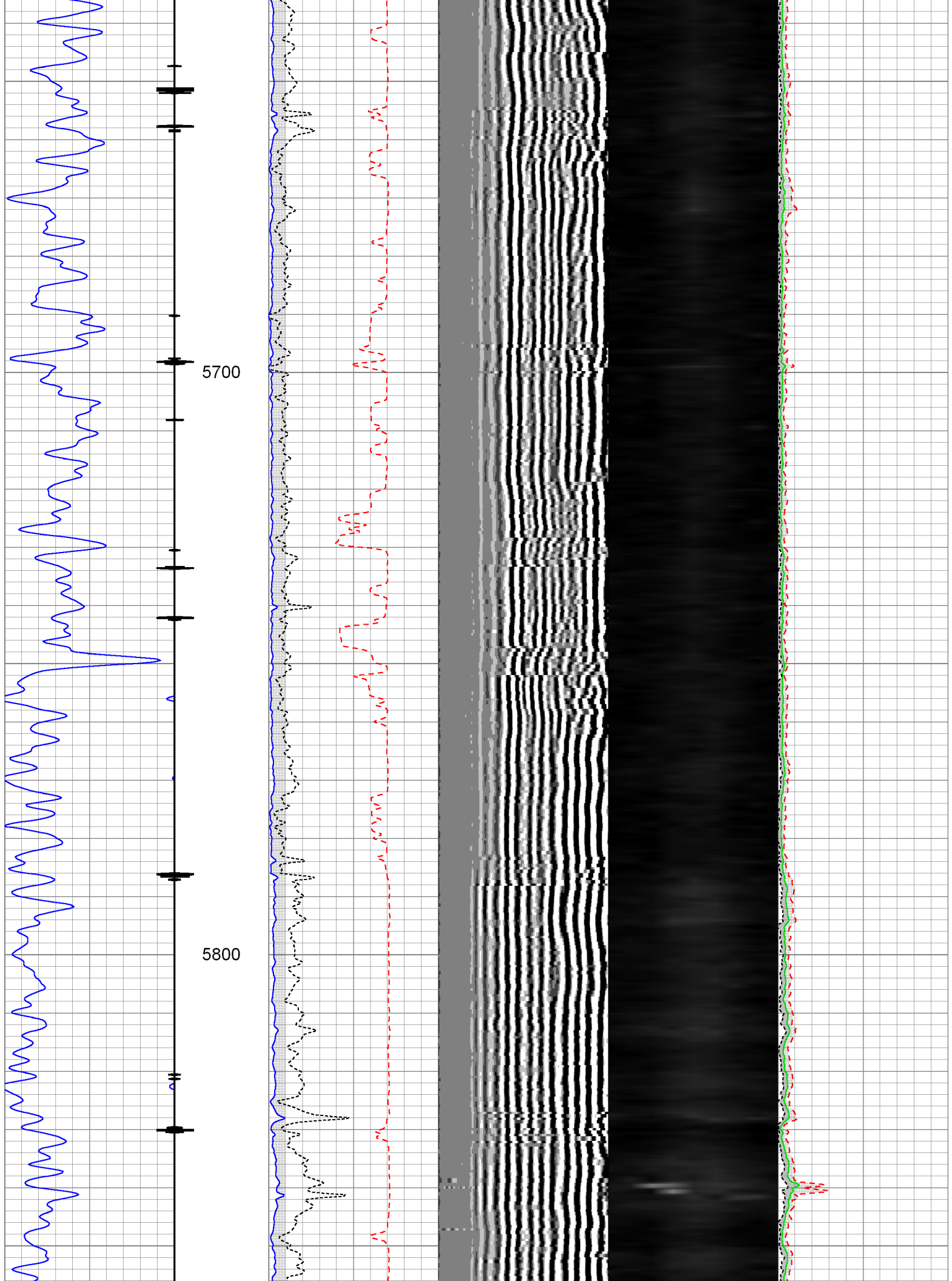




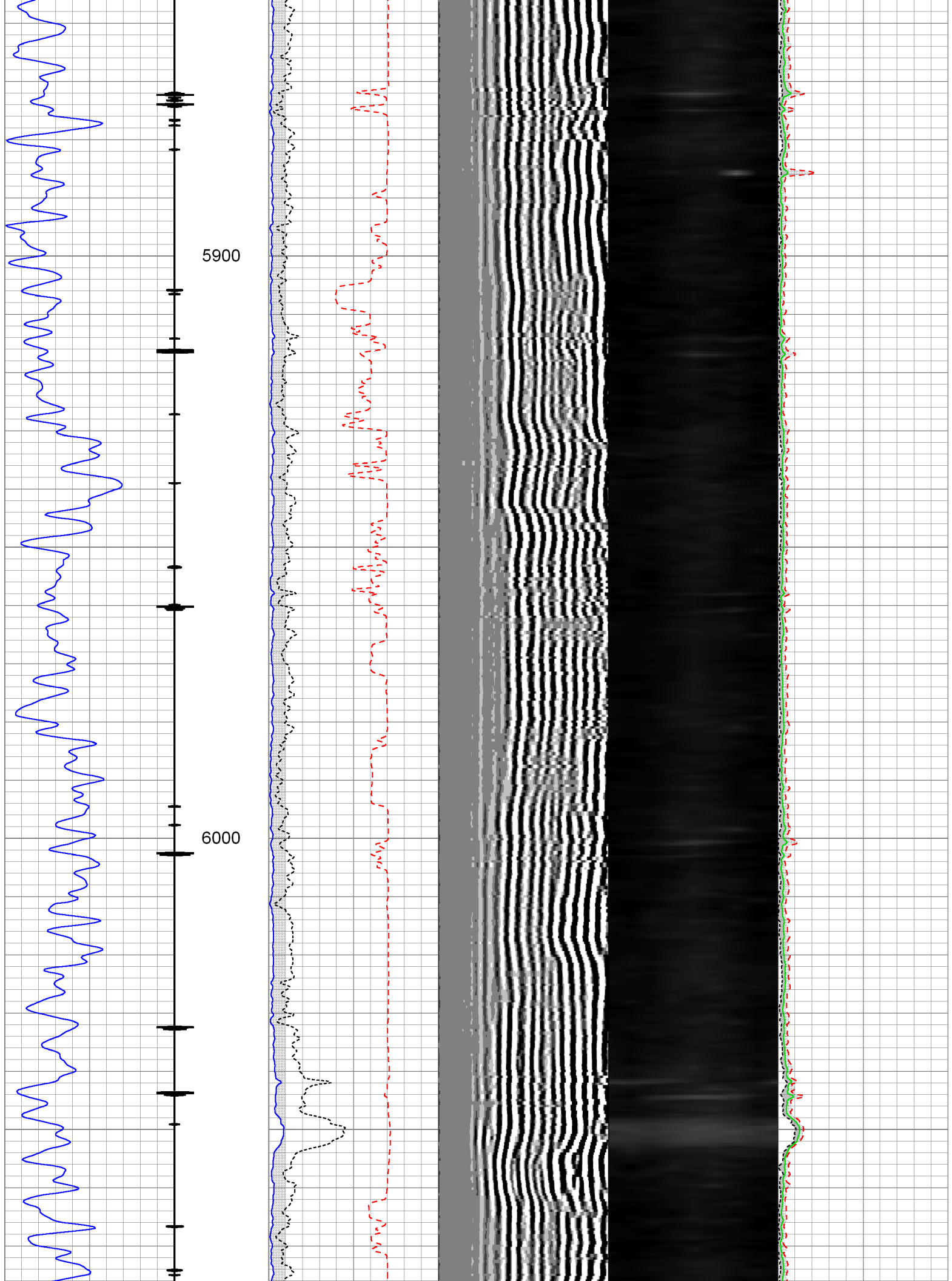


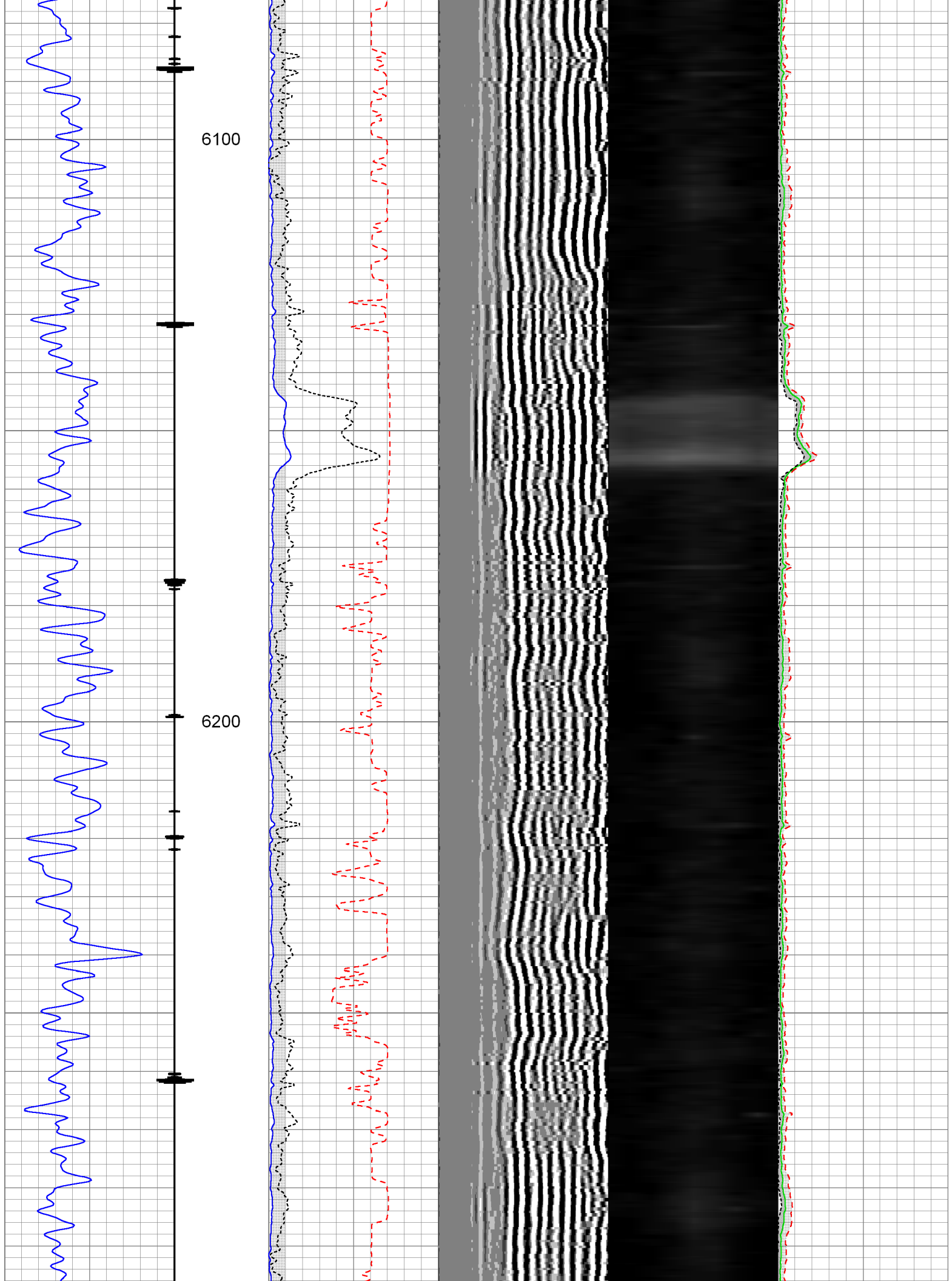


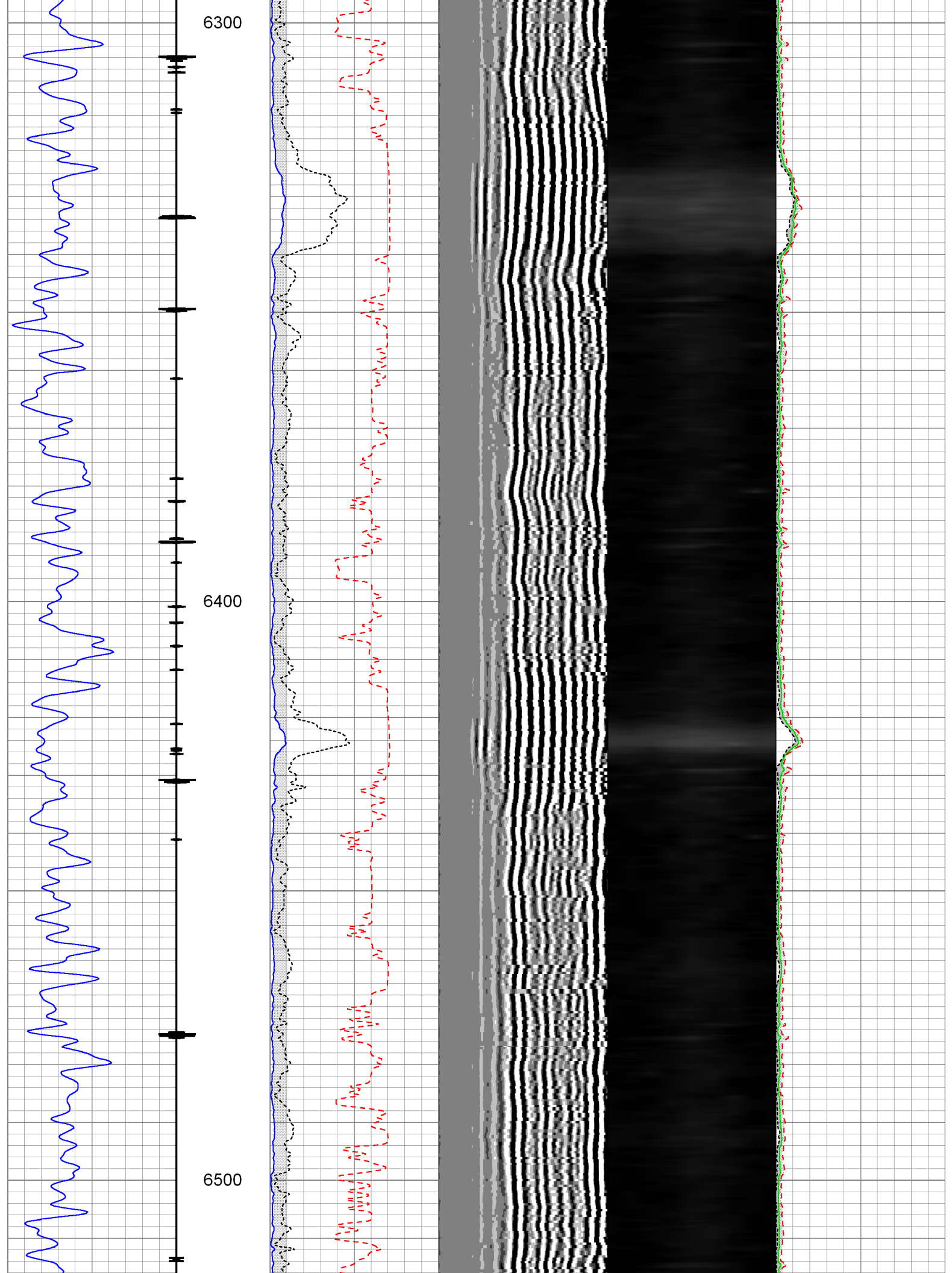


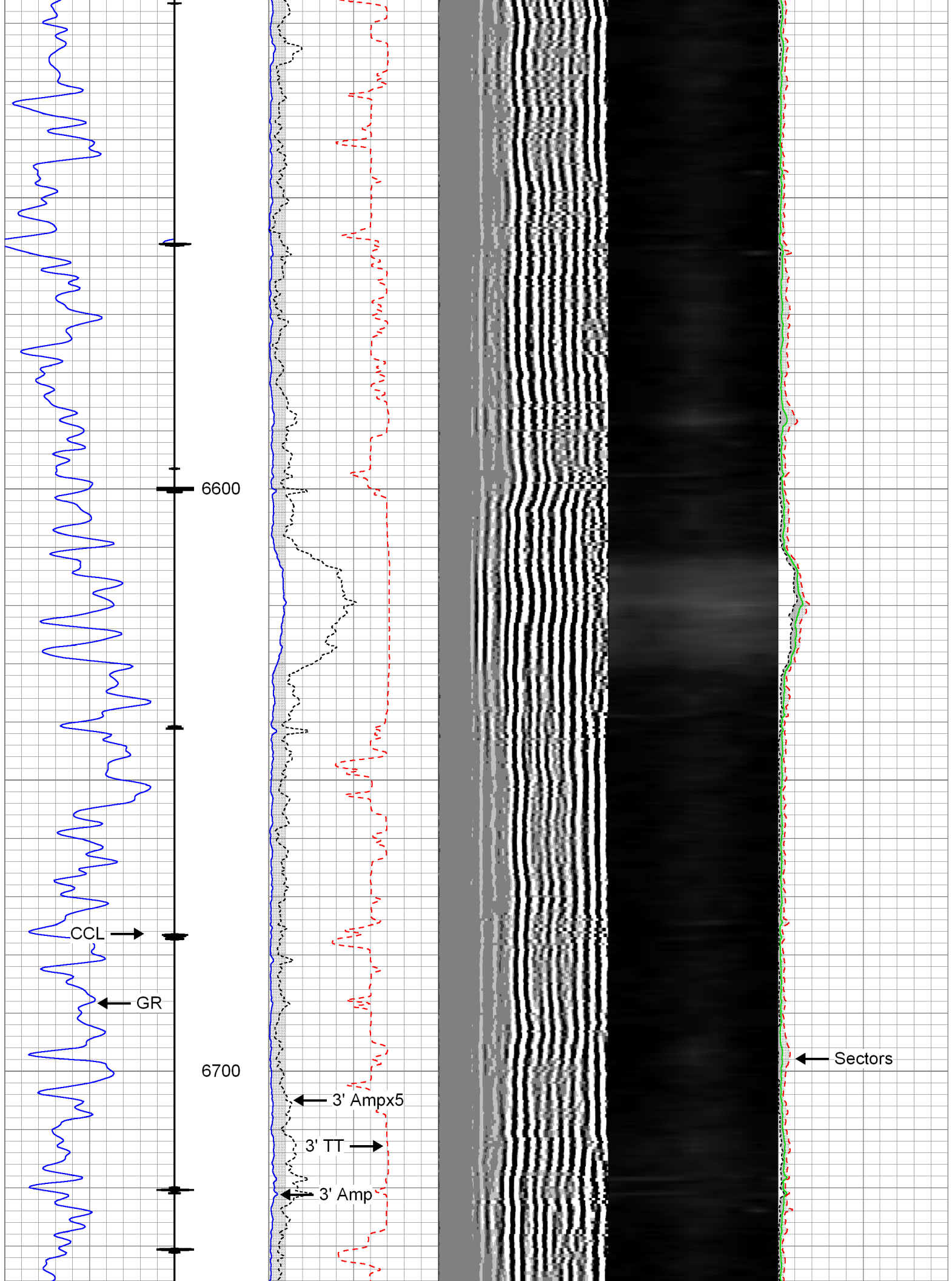


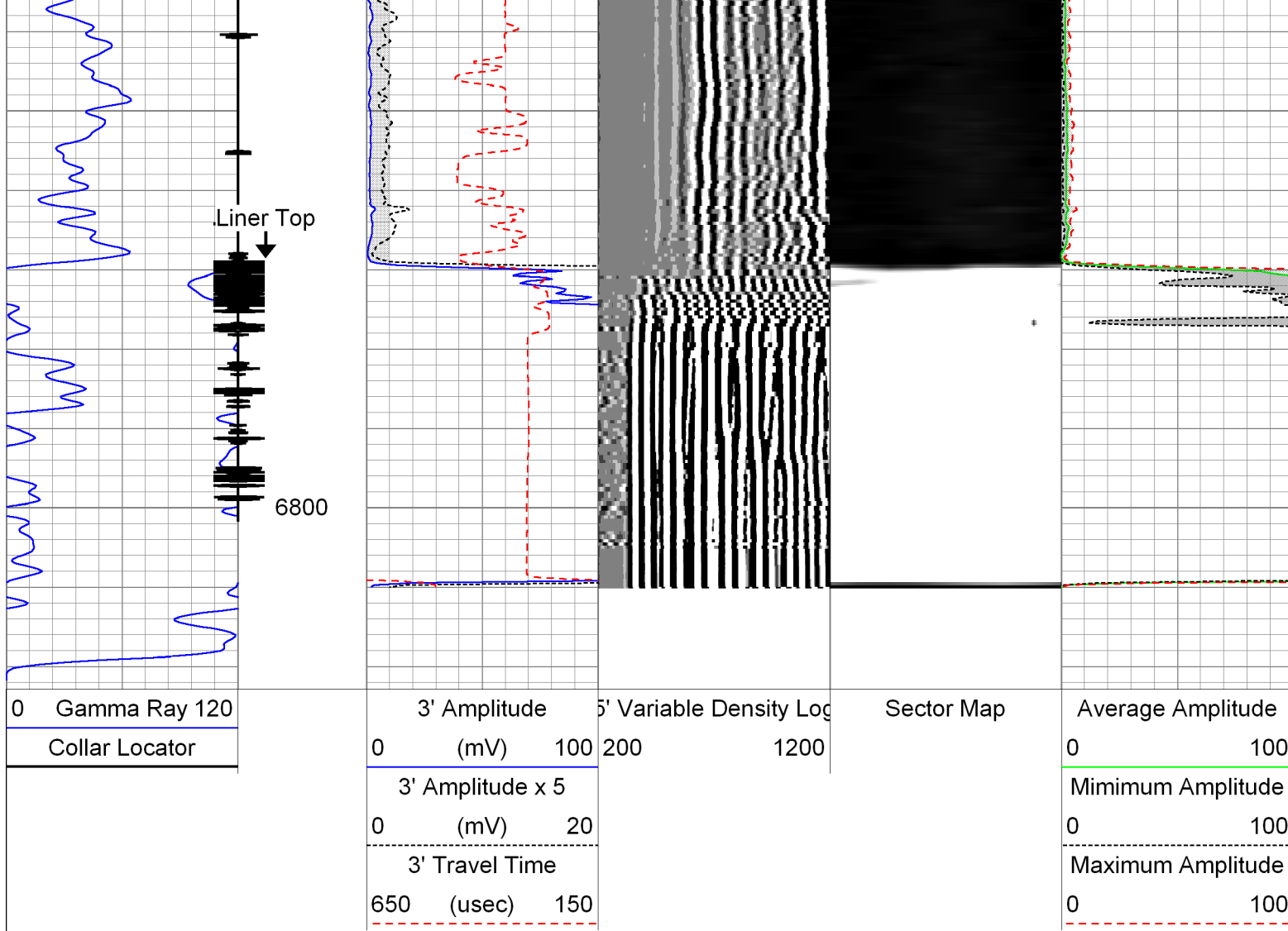






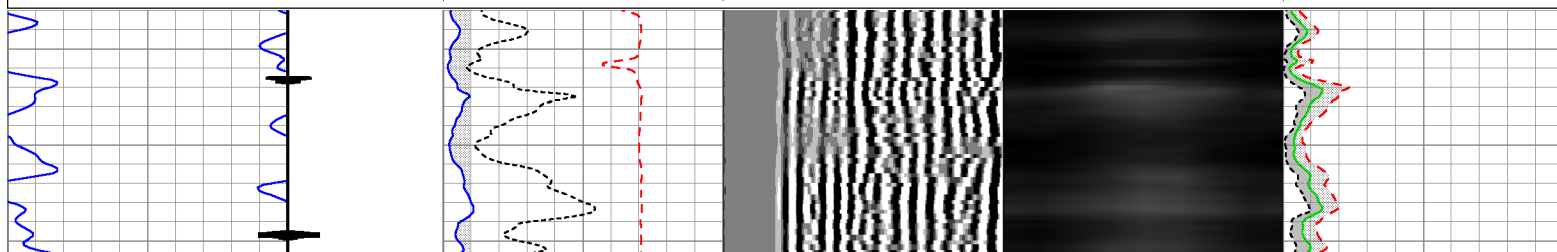
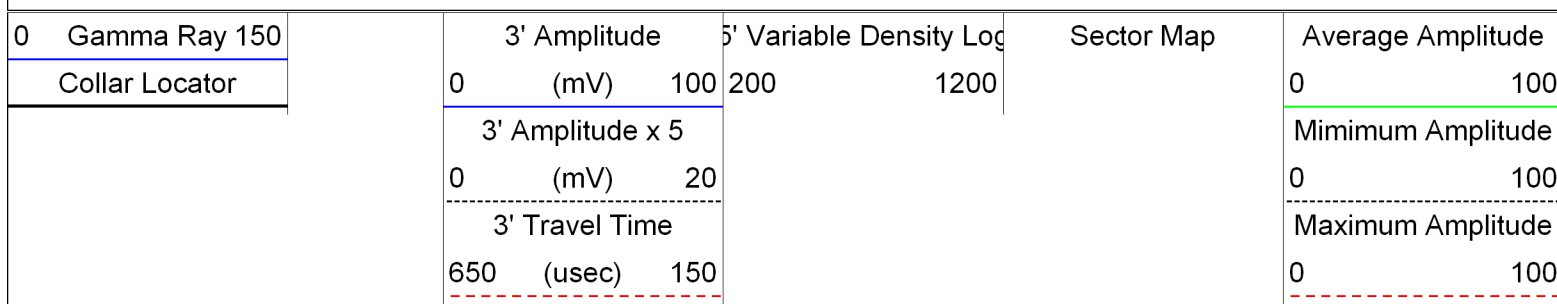




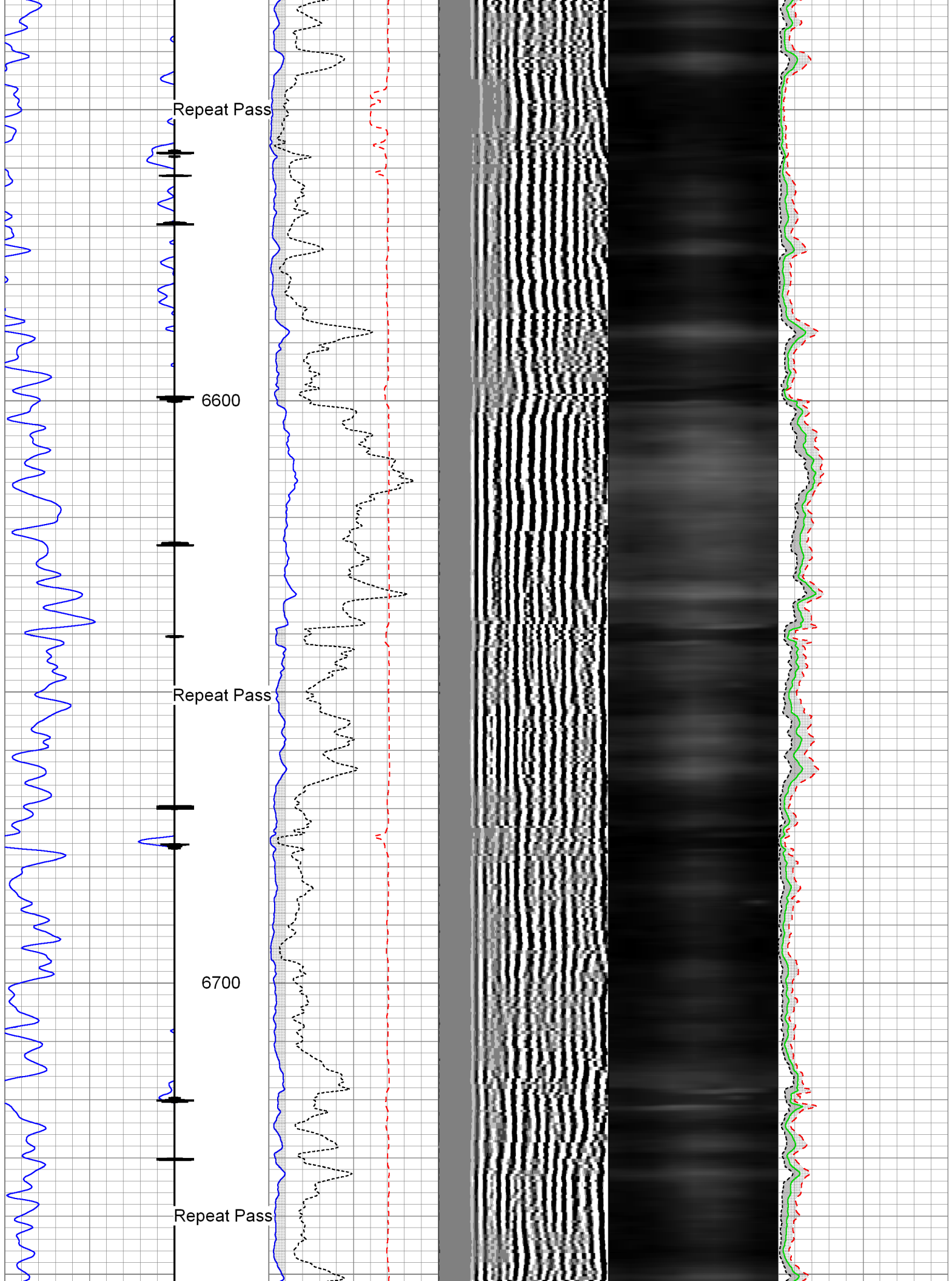


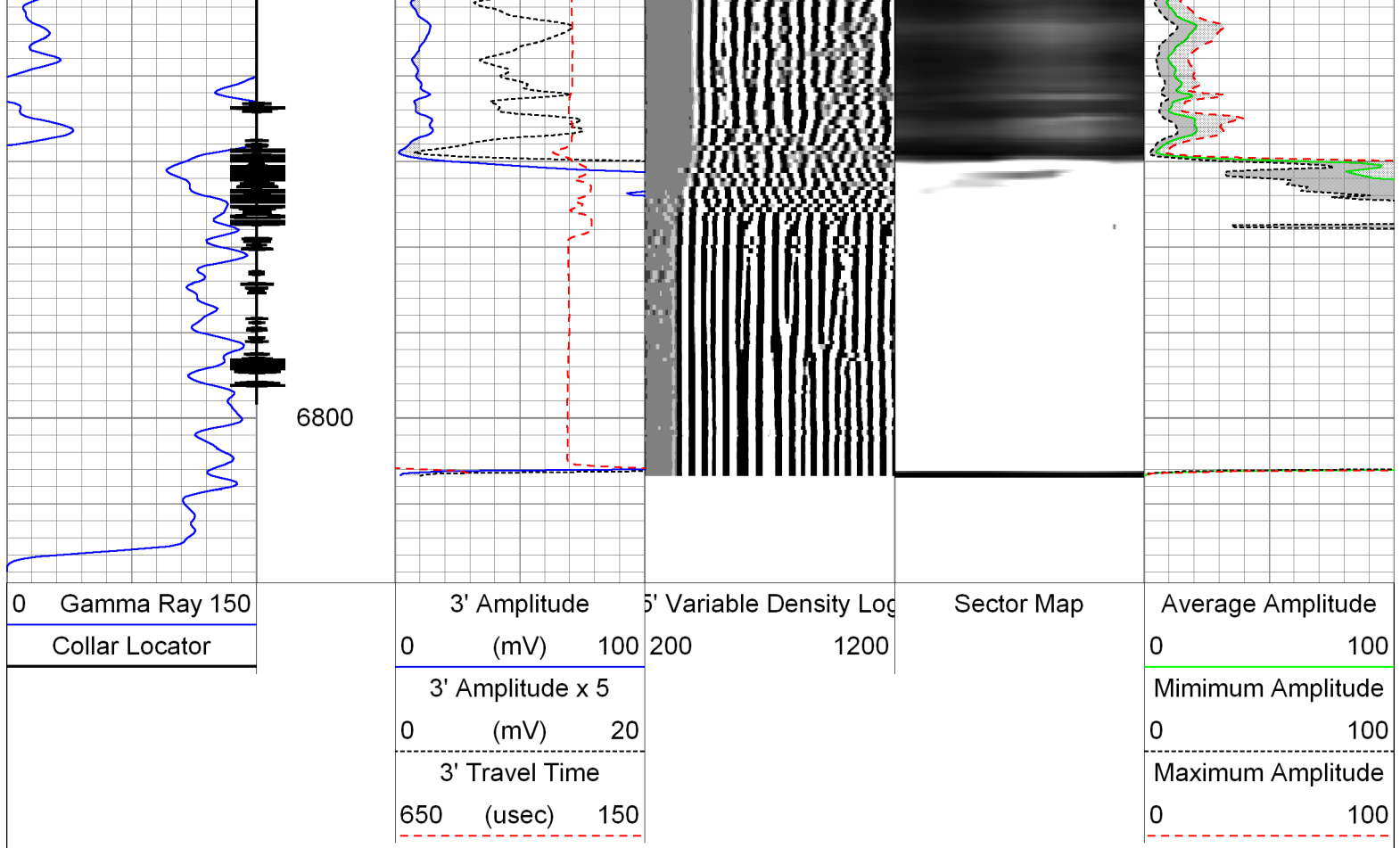
# Repeat Pass: 0 Psi

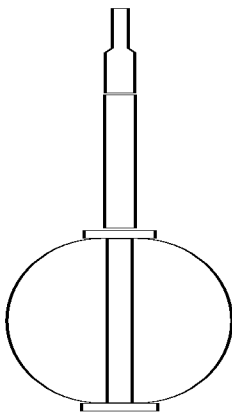

Database File: c:\warrior\data\0512337064\_anadarko\_gobbler\_29n23hz\0512337064\_anadarko\_gobbler\_29n23  
Dataset Pathname: pass5  
Presentation Format: rbt007  
Dataset Creation: Sat Jul 27 10:27:34 2013 by Log SCH 111116  
Charted by: Depth in Feet scaled 1:240









Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	20.91		AES1563 Applied Science 1-7/16" cablehead with 1" fishing neck	1.04	1.56	2.00
			CCL_LOG-TypeE (EEEE) Titan 3-1/8" Logging CCL	1.64	3.13	35.00
			Titan_Slim6_IL_Cent Titan Slim 3 arm bowspring inline electrical centralizer	2.21	1.69	9.00
WVFS1	13.58		Sondex_RBT007-RBT_007 (1234) Sondex 3-1/8" Analog Radial Bond Tool Model RBT007	9.47	3.13	119.00
WVFS2	13.58					
WVFS3	13.58					
WVFS4	13.58					
WVFS5	13.58					
WVFS6	13.58					
WVFS7	13.58					
WVFS8	13.58					



3'	-0.010	0.509	0.000	100.000	192.856	1.929
CAL						
5'	0.000	0.433	0.000	100.000	231.177	0.000
SUM						
S1	0.000	0.372	0.000	100.000	268.502	0.000
S2	0.000	0.403	0.000	100.000	247.927	0.000
S3	0.000	0.400	0.000	100.000	249.992	0.000
S4	0.000	0.393	0.000	100.000	254.386	0.000
S5	0.000	0.381	0.000	100.000	262.530	0.000
S6	0.000	0.377	0.000	100.000	264.942	0.000
S7	0.000	0.368	0.000	100.000	271.474	0.000
S8	0.000	0.376	0.000	100.000	265.664	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Mon Sep 11 12:40:00 2006:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.000		0.000		0.000
5'	0.000		0.000		0.000
SUM					
S1	0.000		0.000		0.000
S2	0.000		0.000		0.000
S3	0.000		0.000		0.000
S4	0.000		0.000		0.000
S5	0.000		0.000		0.000
S6	0.000		0.000		0.000
S7	0.000		0.000		0.000
S8	0.000		0.000		0.000



Company Kerr-McGee Oil & Gas Onshore, L.P.  
Well Gobbler 29N-23HZ  
Field Wattenberg  
County Weld  
State Colorado