



Radial Cement Bond  
Gamma Ray  
Casing Collar Log

Company	Kerr-McGee Oil and Gas Onshore LP				
Well	Viper Pyro 39N2-10HZX				
Field	Wattenberg				
County	Weld				
State	Colorado				
Company	Kerr-McGee Oil and Gas Onshore LP				
Well	Viper Pyro 39N2-10HZX				
Field	Wattenberg				
County	Weld	State	Colorado		
Location:	API # : 05-123-41430-01		Other Services Gauge Ring Junk Basket		
SEC 15 TWP 3N RGE 67W			Elevation		
Permanent Datum	Ground Level	Elevation	4794'		
Log Measured From	Kelly Bushing	20 FT	K.B. 4814' D.F. 4813' G.L. 4794'		
Drilling Measured From	Kelly Bushing				

Date	13-OCT-2015
Run Number	Two
Depth Driller	12824 FT
Depth Logger	7331 FT
Bottom Logged Interval	7326 FT
Top Log Interval	Surface
Open Hole Size	7.875
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	229°F
Estimated Cement Top	Surface
Time Well Ready	ROA
Time Logger on Bottom	1530
Equipment Number	HD-0255
Location	Ft. Lupton, CO
Recorded By	J. Amidei
Witnessed By	J. Adams

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom		
Surface Casing							
Intermediate #1	5 1/2	17	---	Surface	12824 FT		
Intermediate #2							
Liner							

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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 ran as per customer request  
Depth referenced to Kelly Bushing at 20 FT  
Adjusted log -6 FT to correlate with Kelly Bushing  
Gauge Ring/Junk Basket ran to 7329 FT with no debris found  
Log ran from 7331 FT to surface  
Log ran with 2800 PSI surface induced pressure  
Logging tools were clean and free of any debris upon completion of operations  
  
Thank you for choosing FMC Technologies Completion Services, Inc.!!

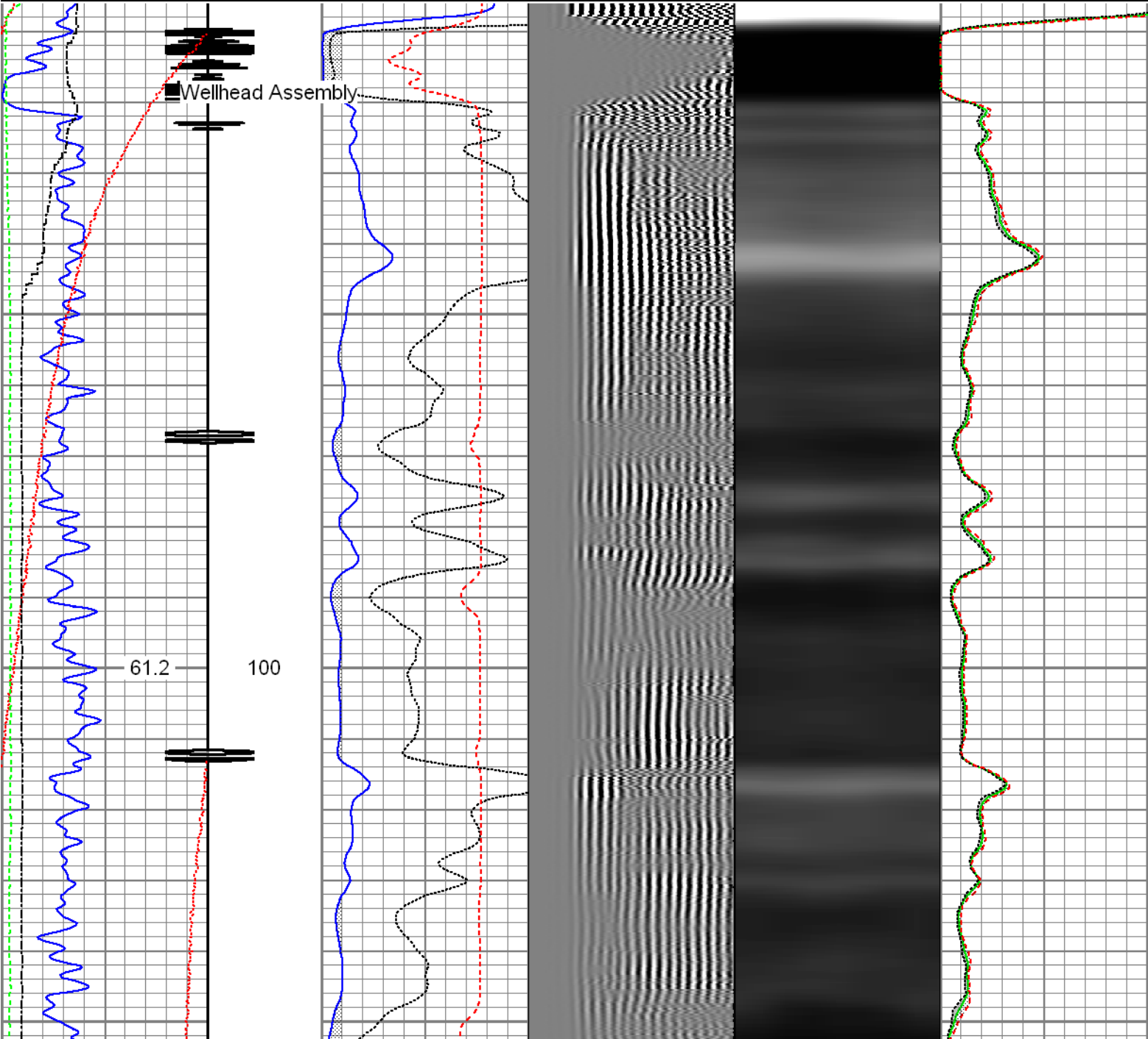


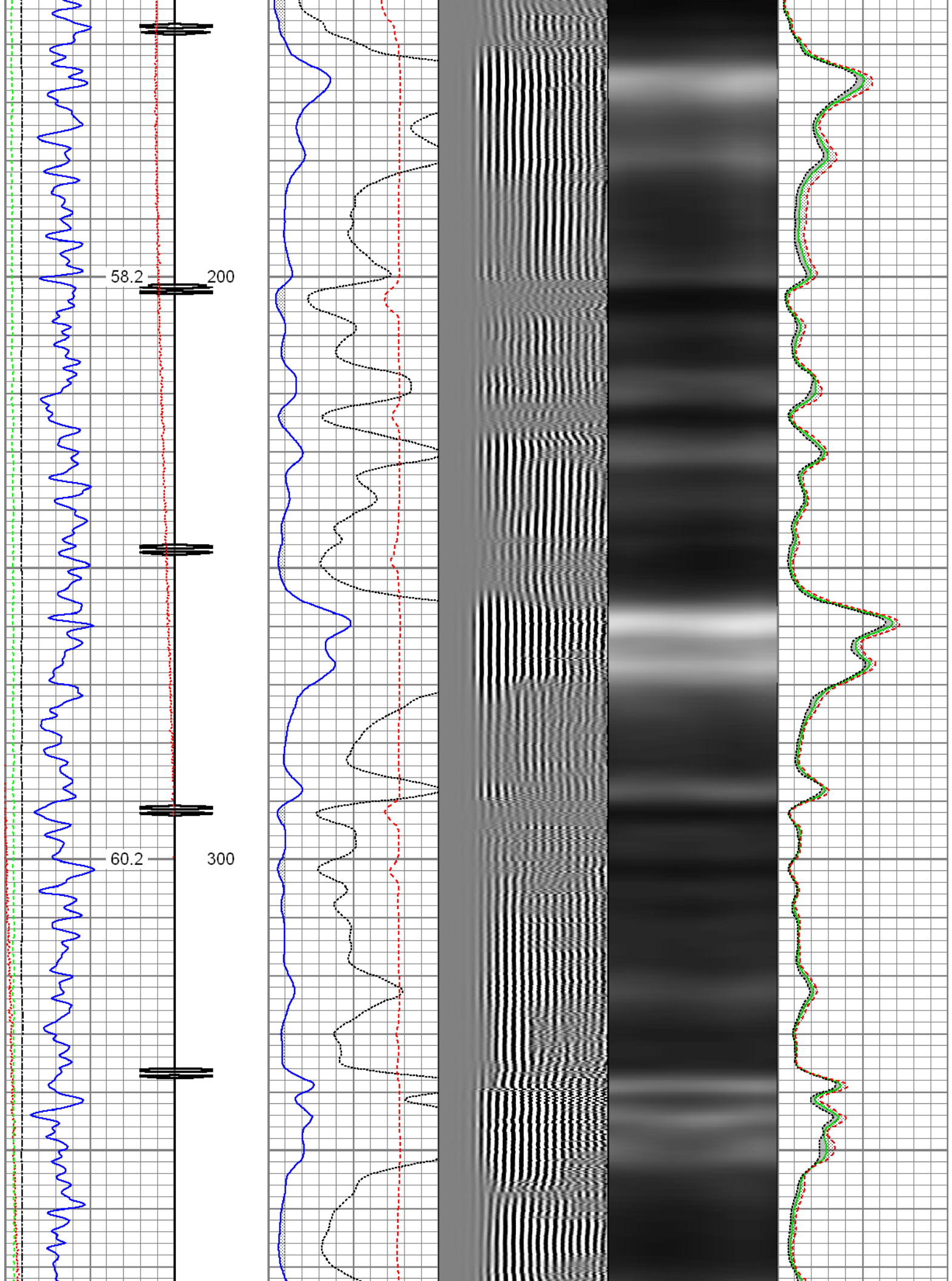
Main Pass

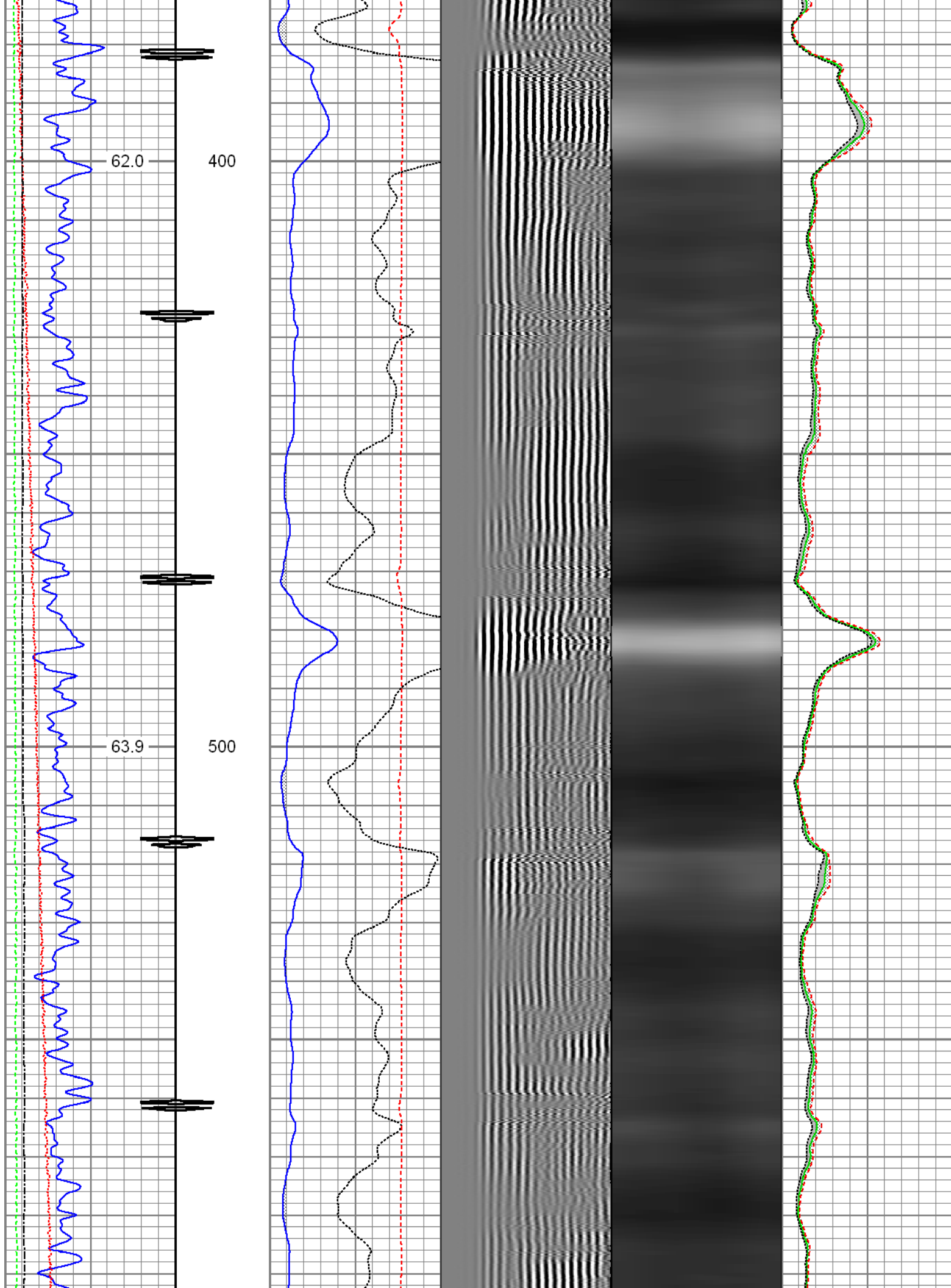
Recorded with 2800 PSI Surface Induced Pressure

Database File: 0512341430\_anadarko\_viper pyro 39n2-10hz\_10-13-15\_rbl.db  
Dataset Pathname: pass4  
Presentation Format: radii  
Dataset Creation: Tue Oct 13 15:46:21 2015 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

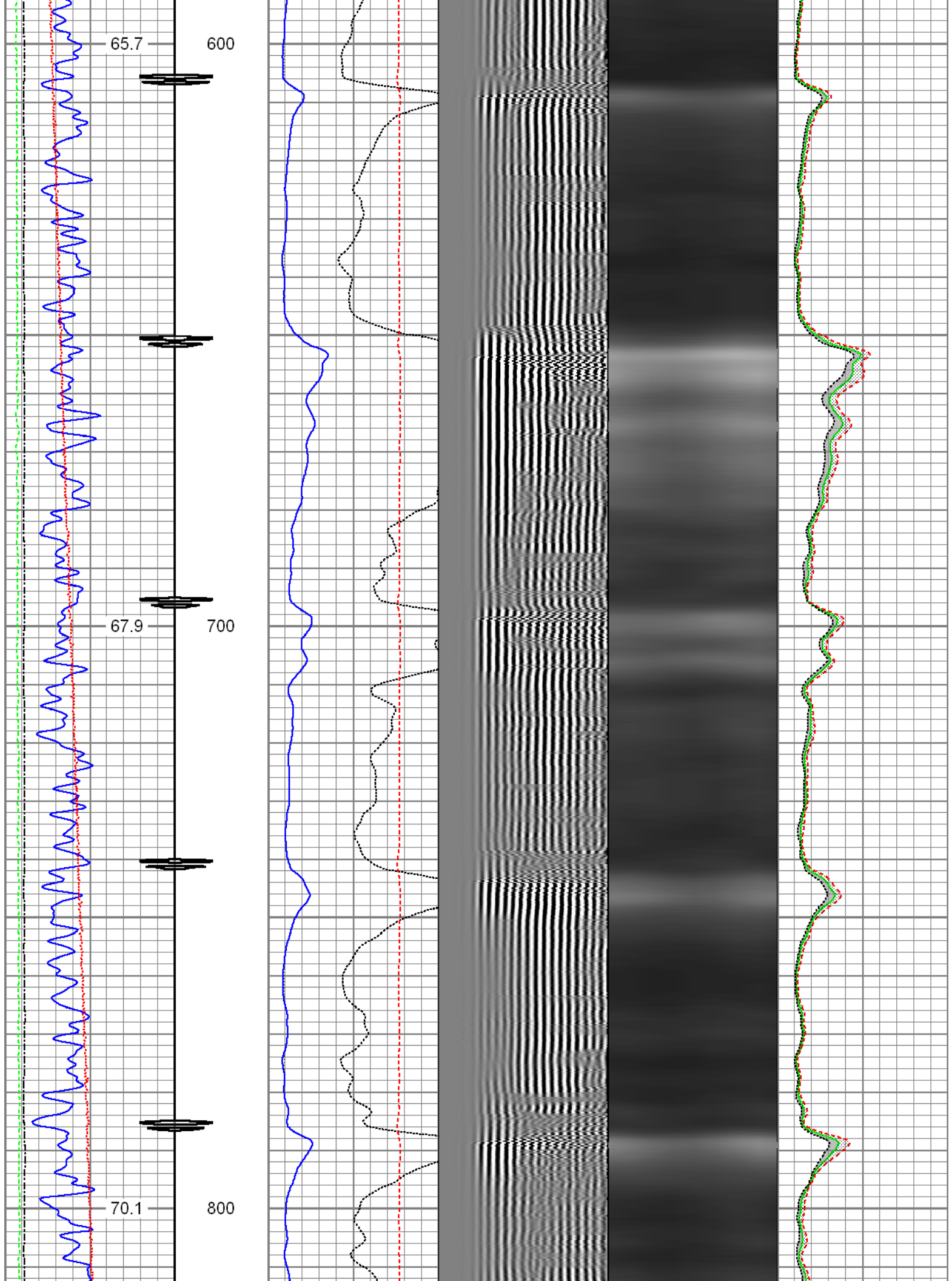
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150				
Line Tension				
0 (lb) 2000				

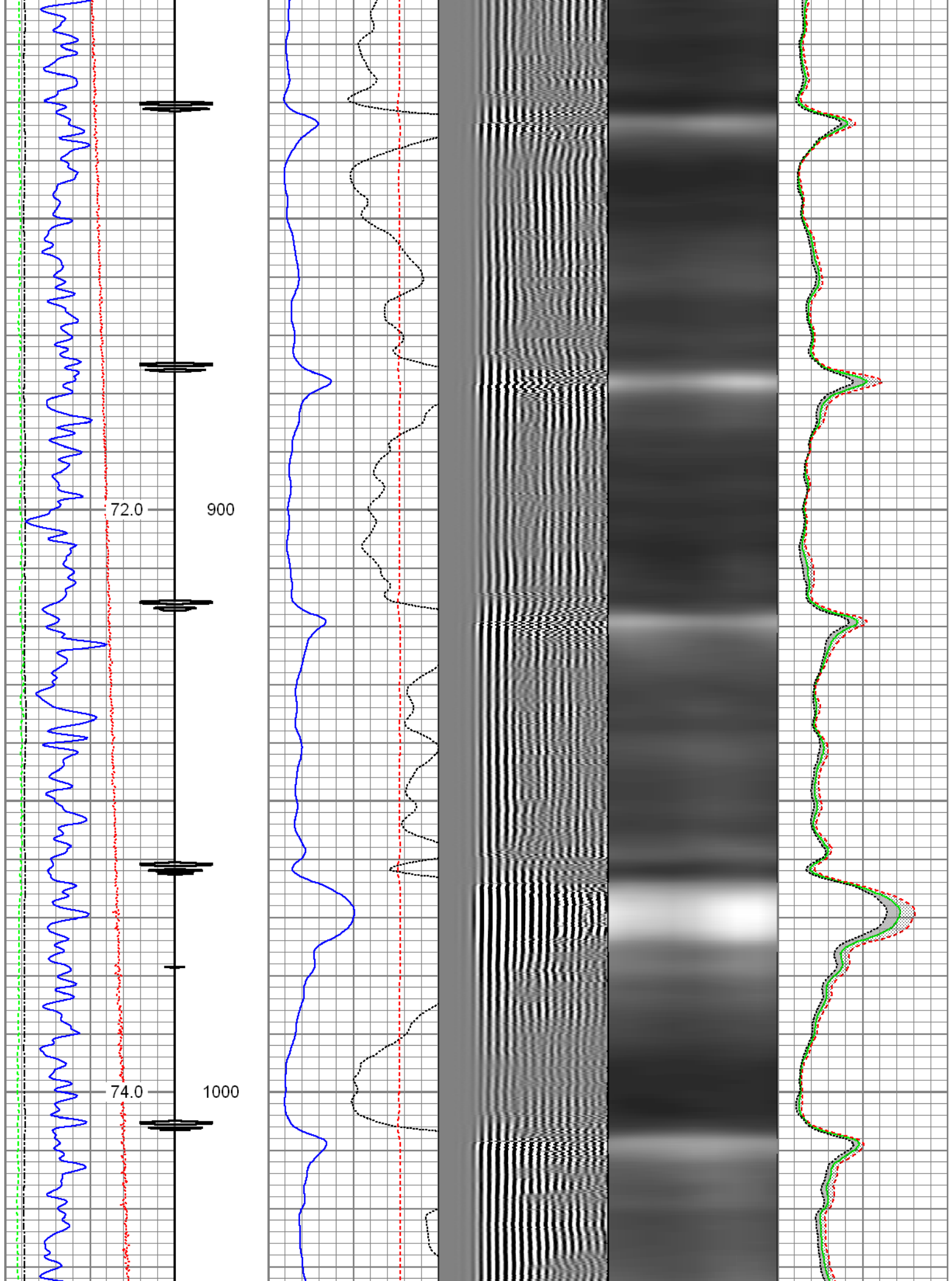


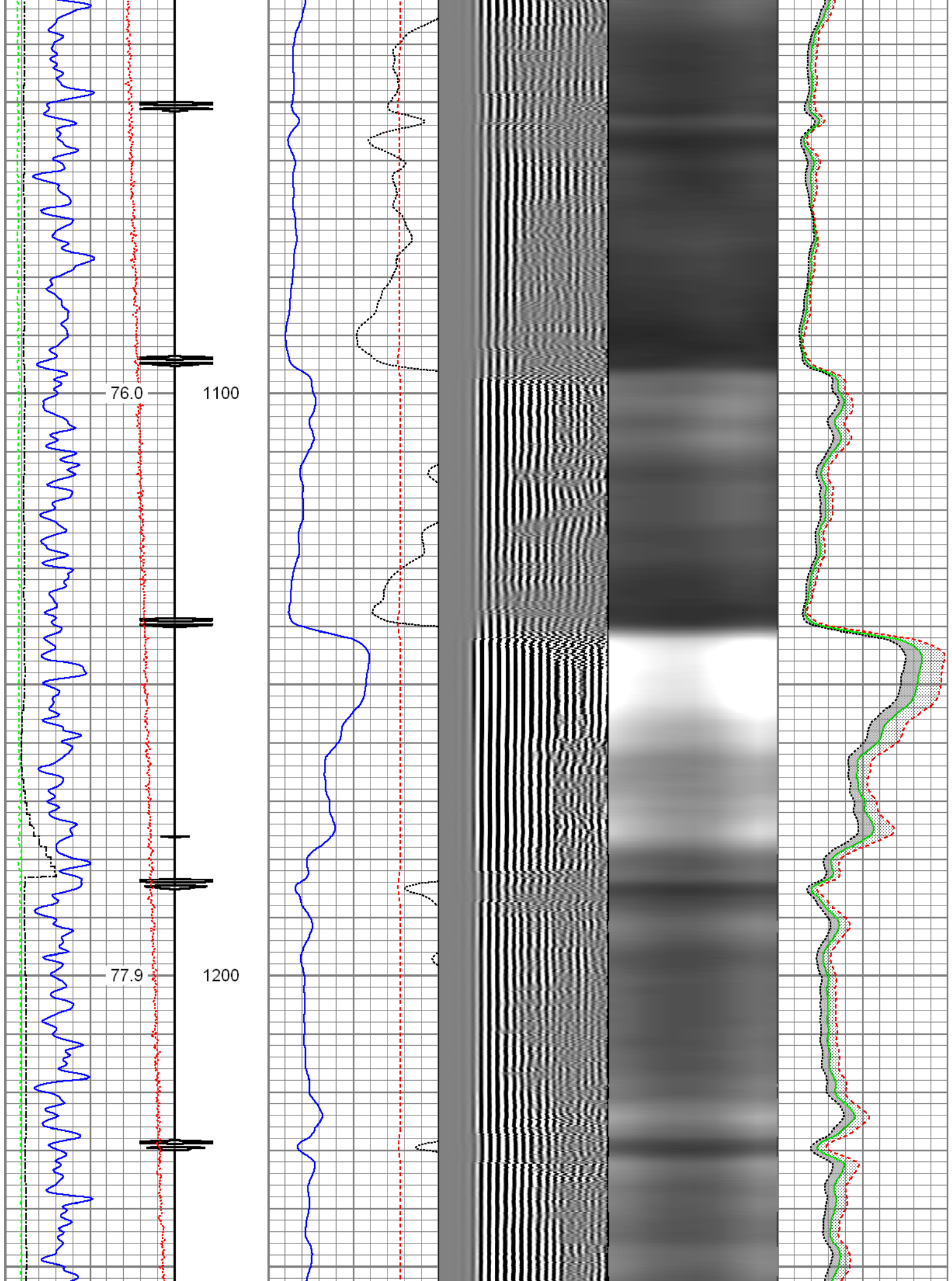




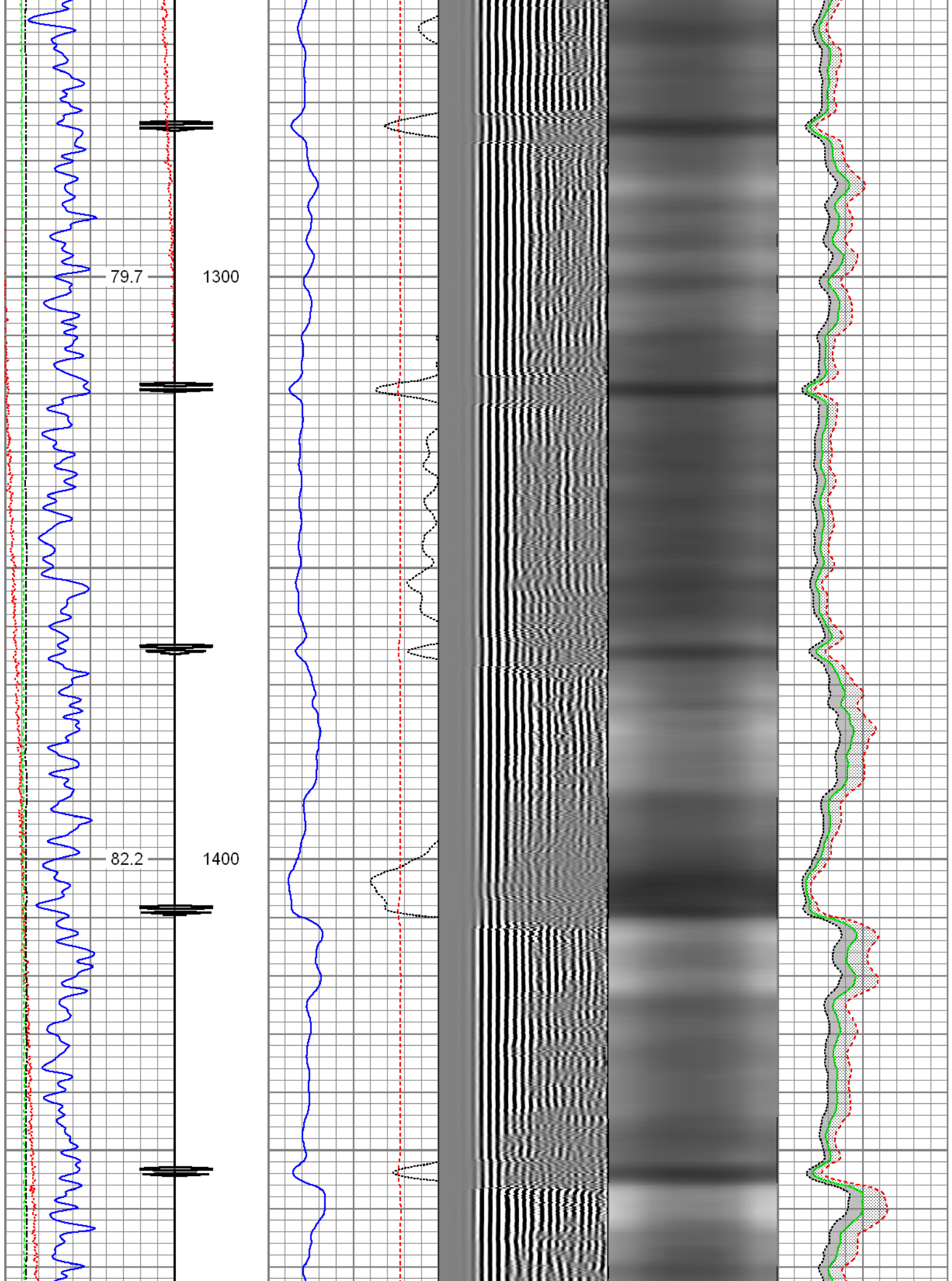




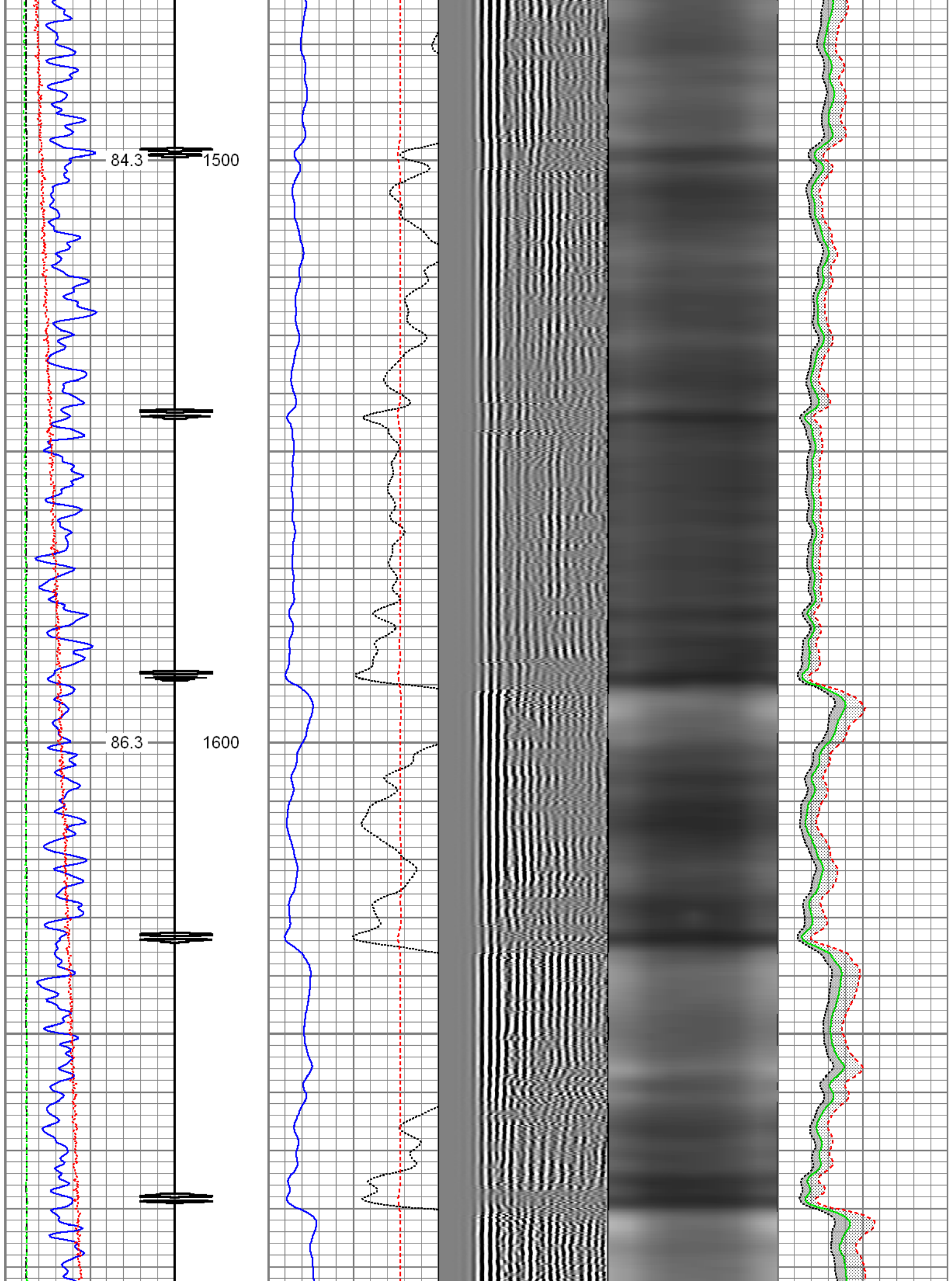


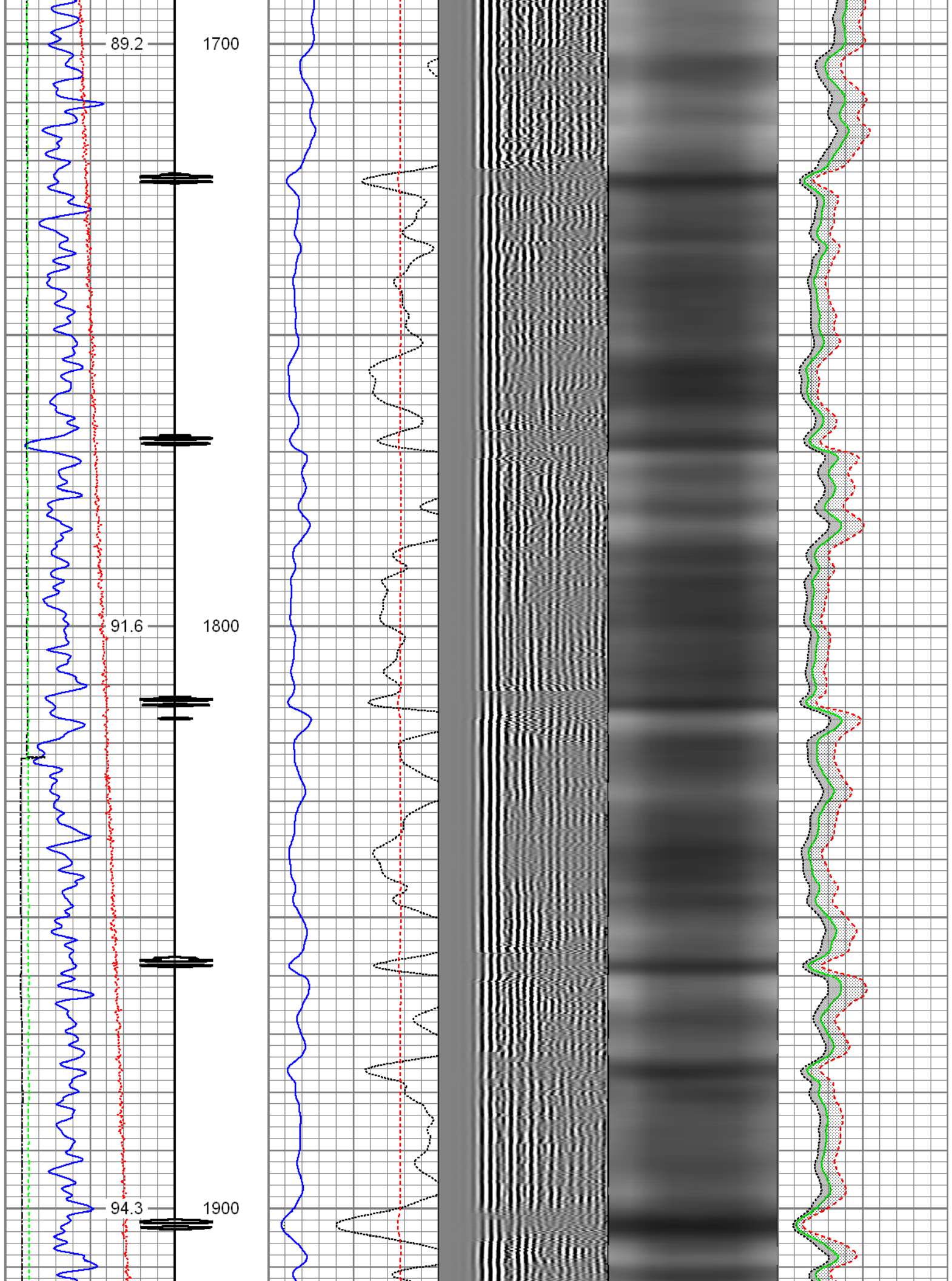


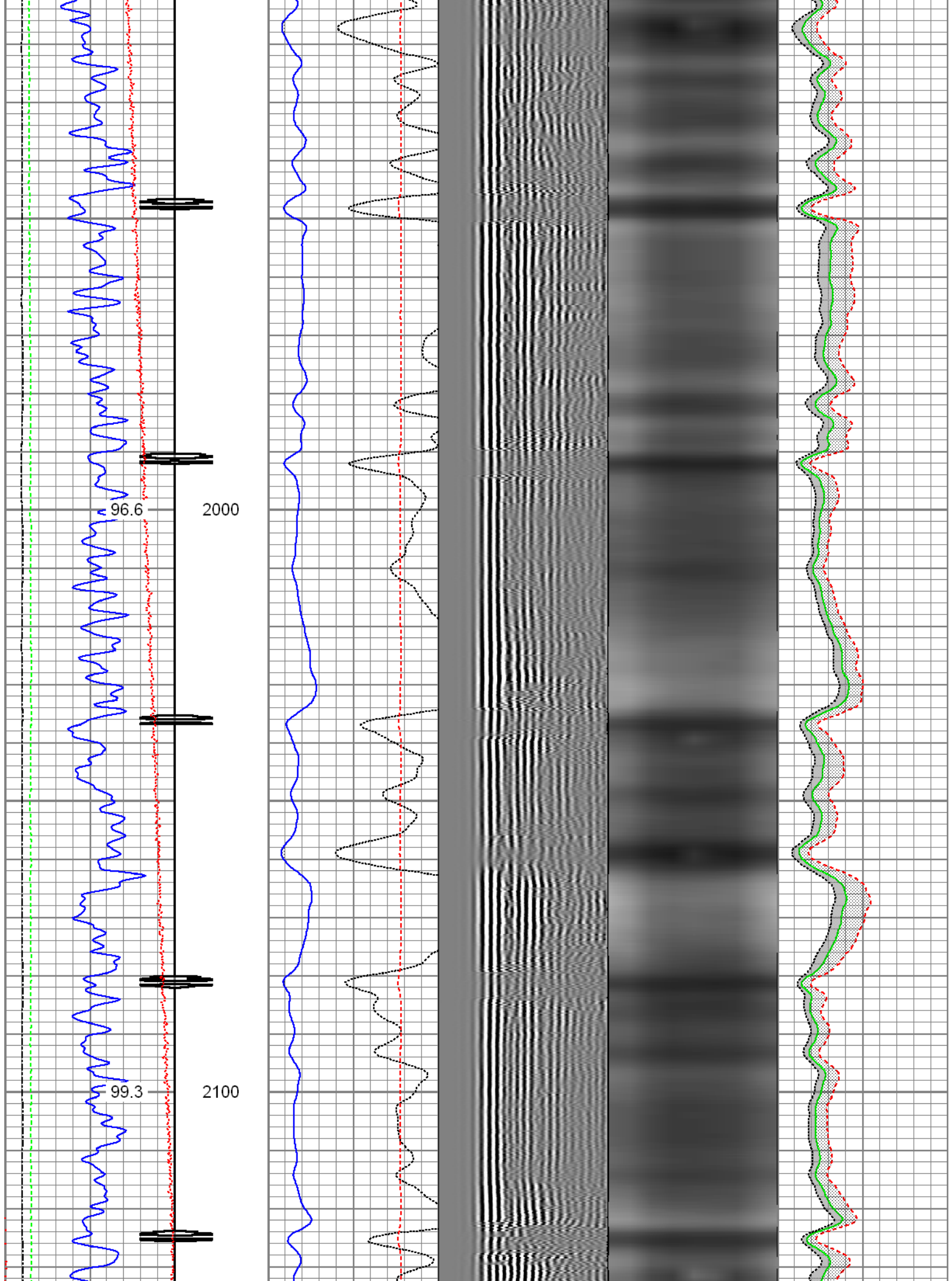




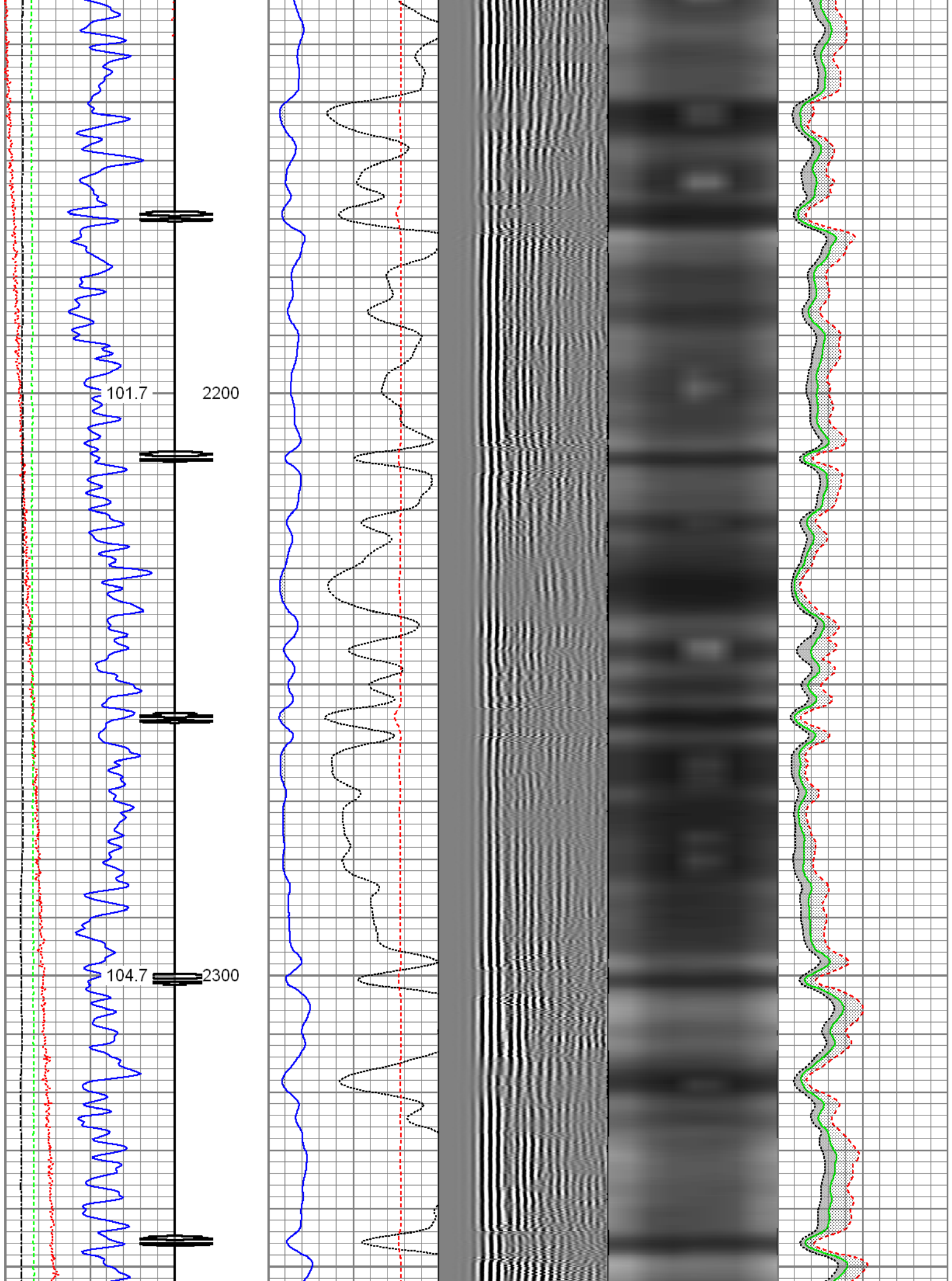




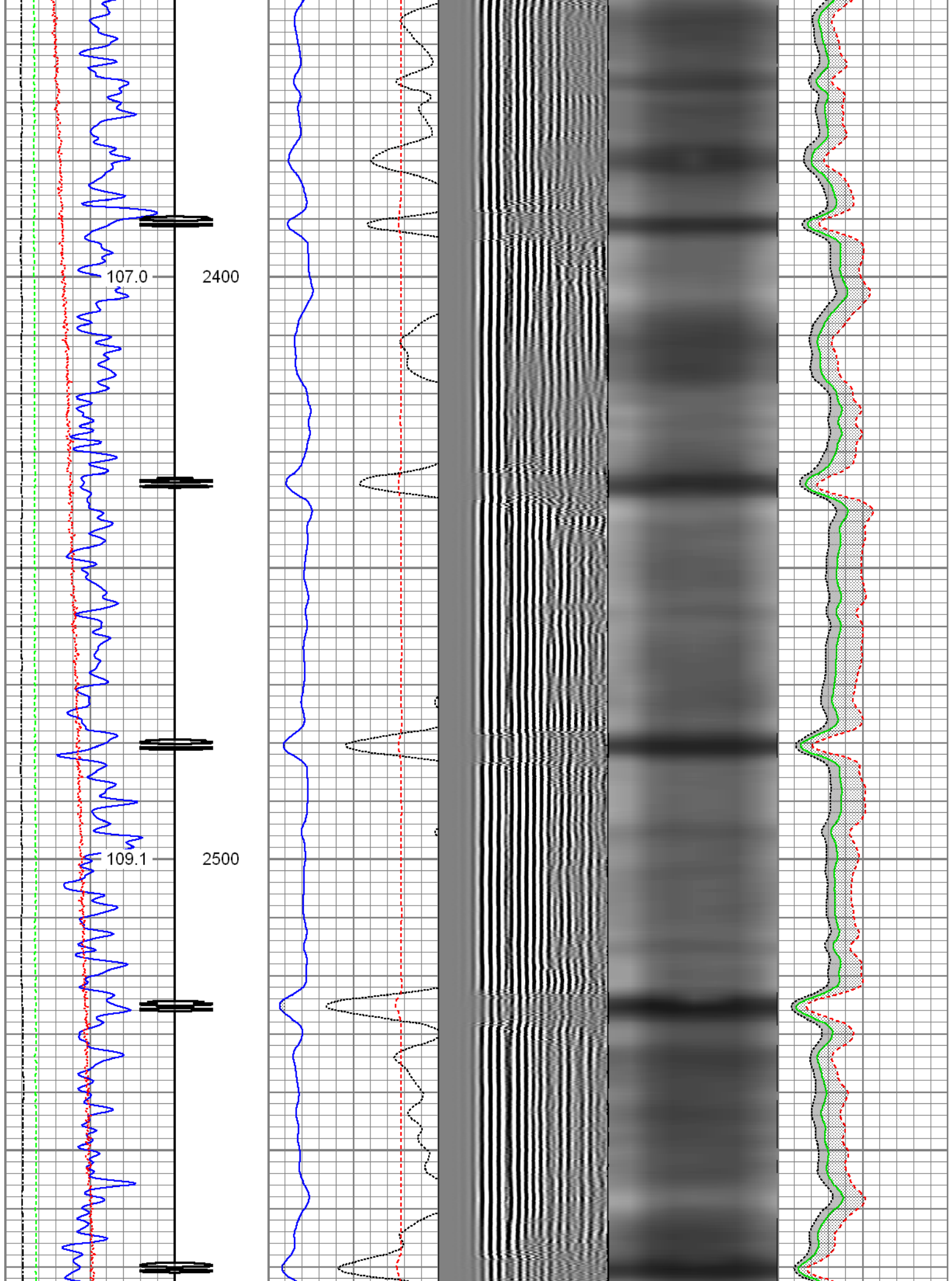


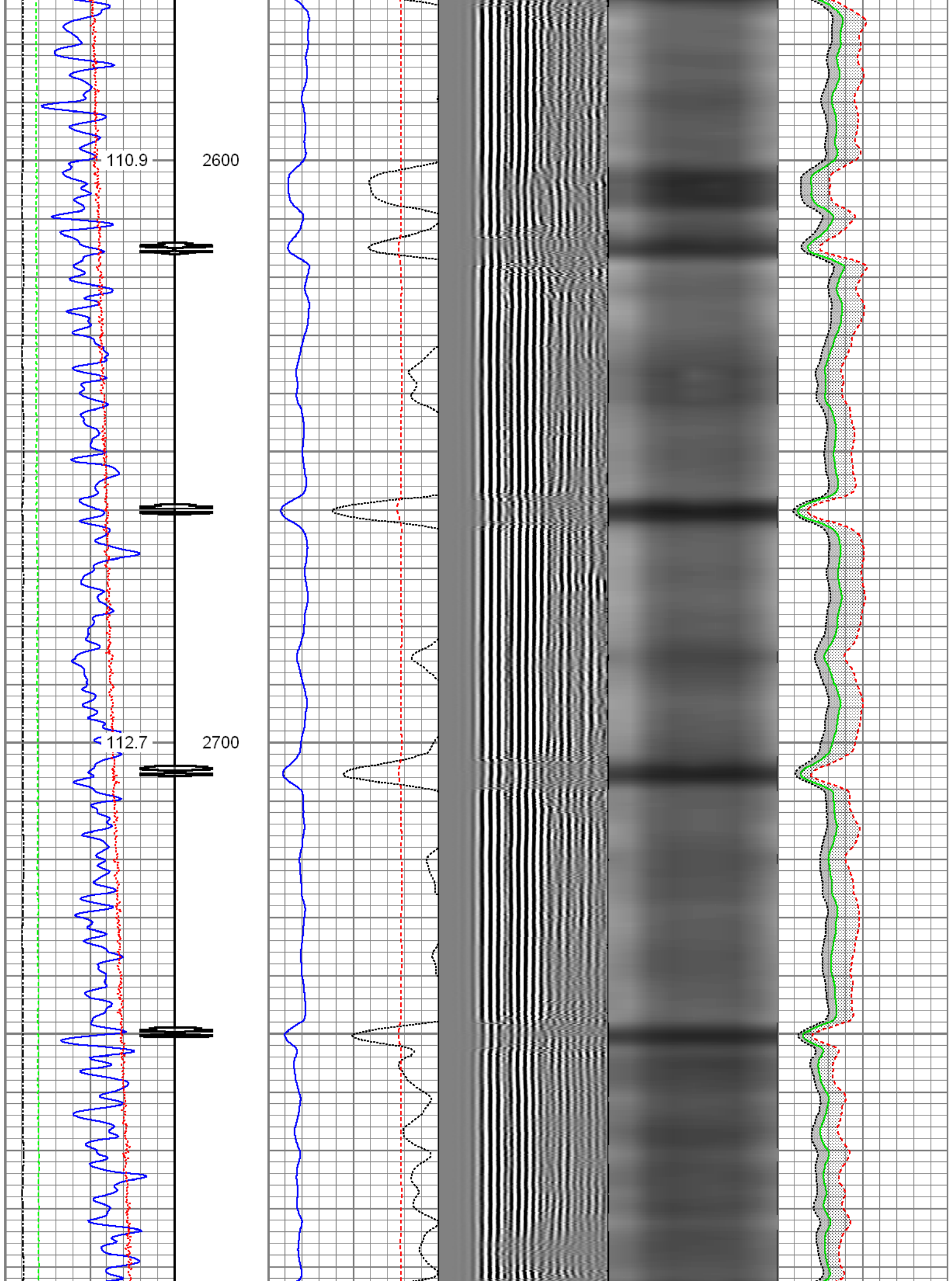


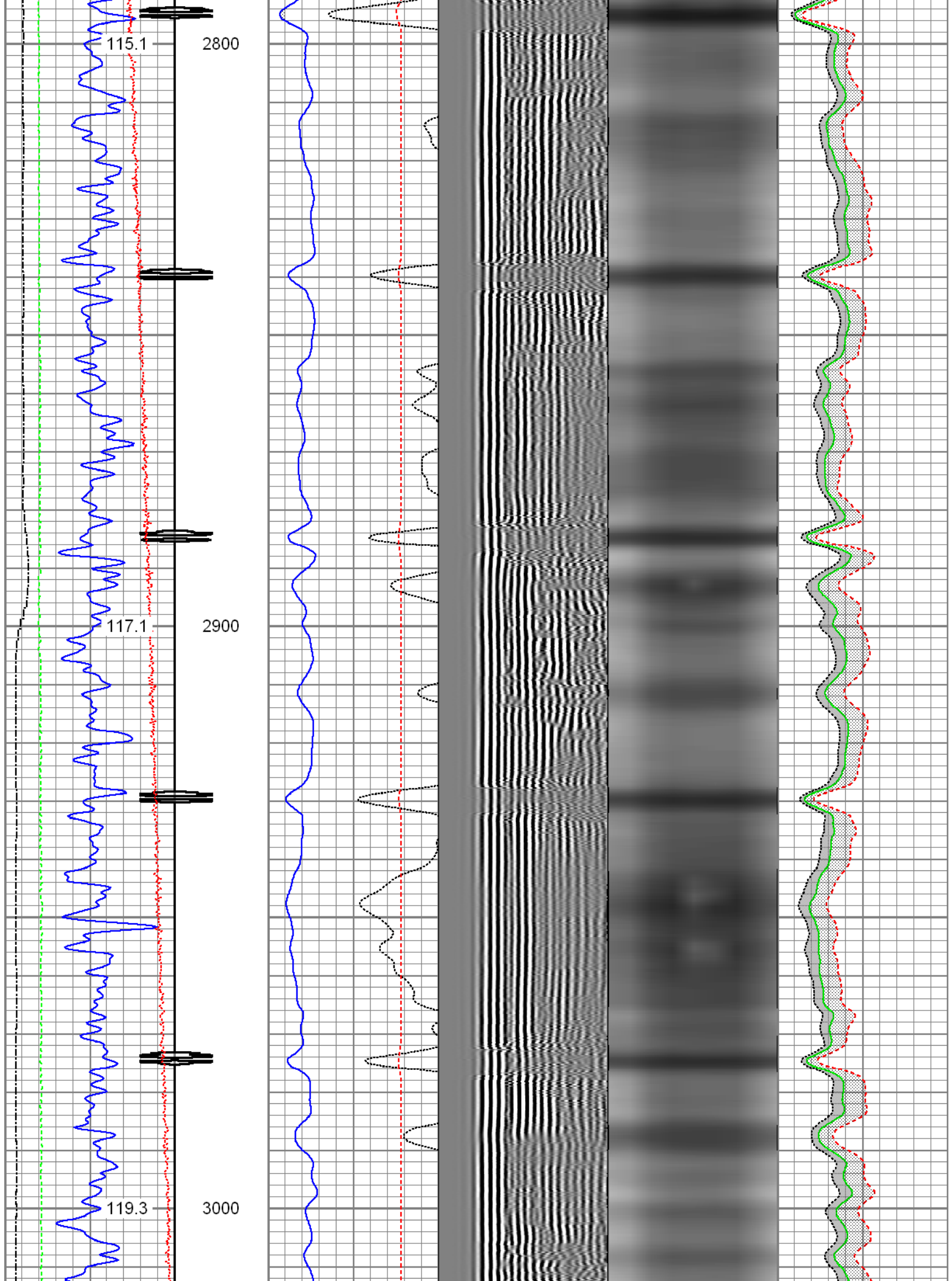




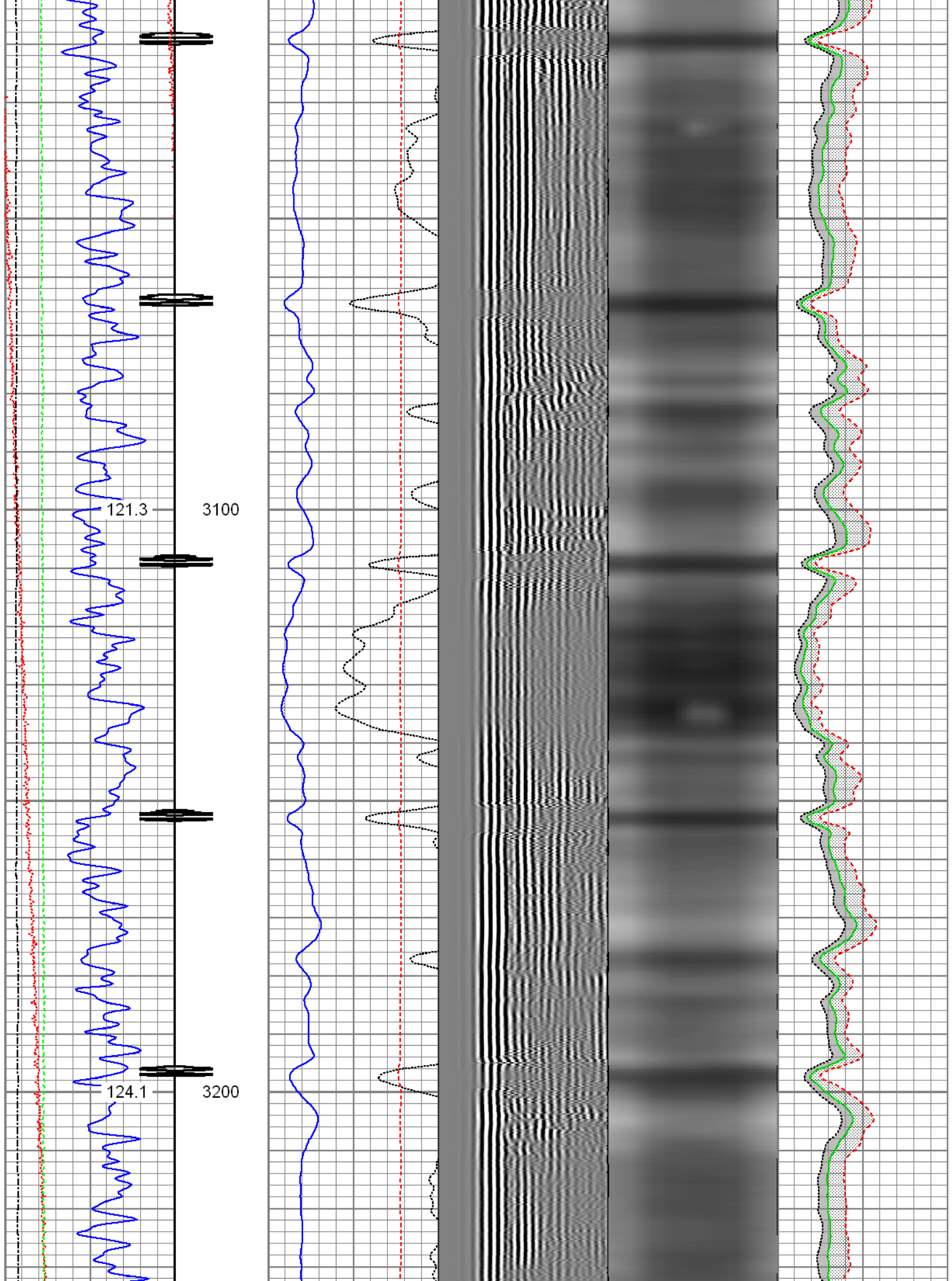




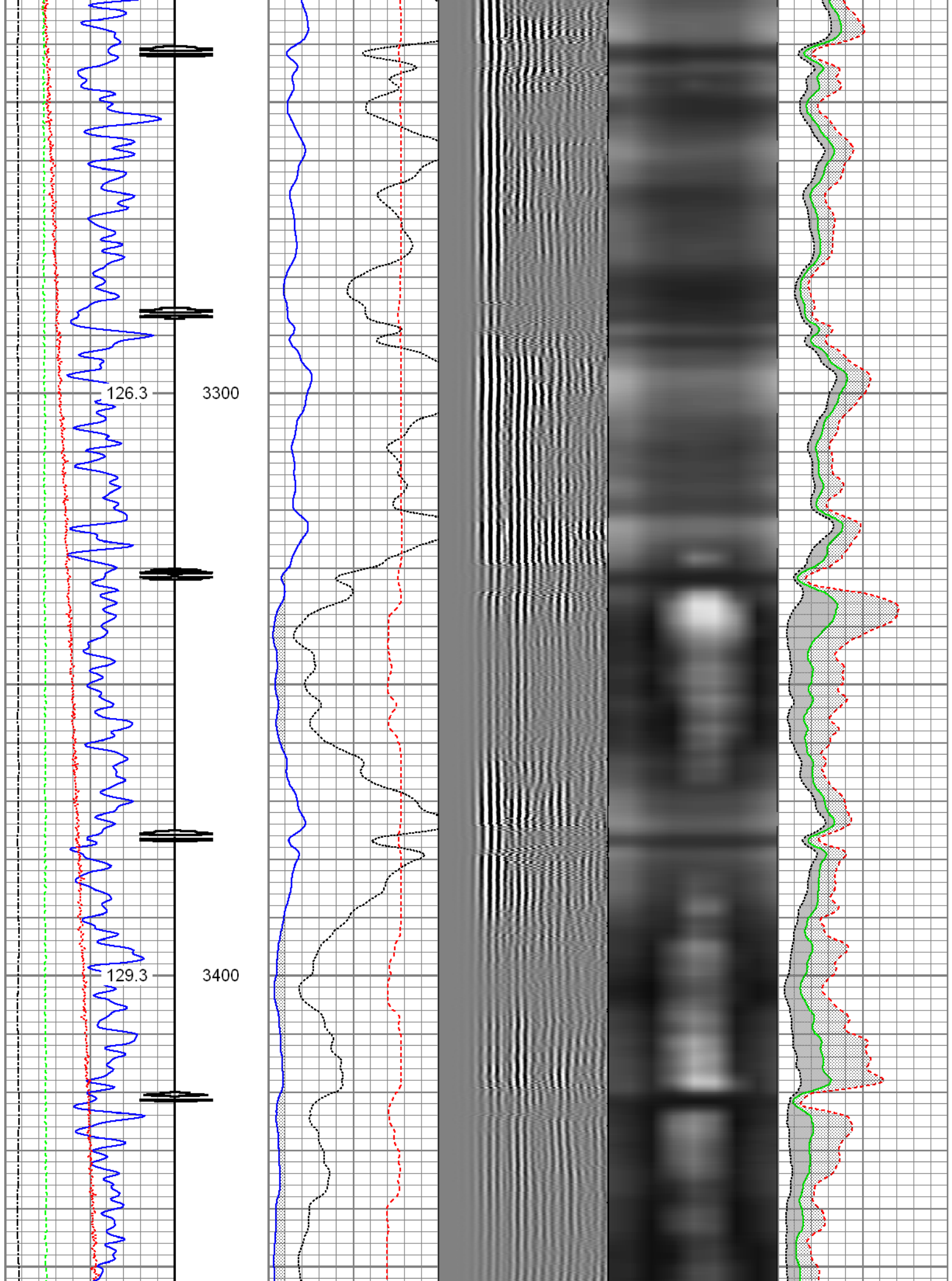


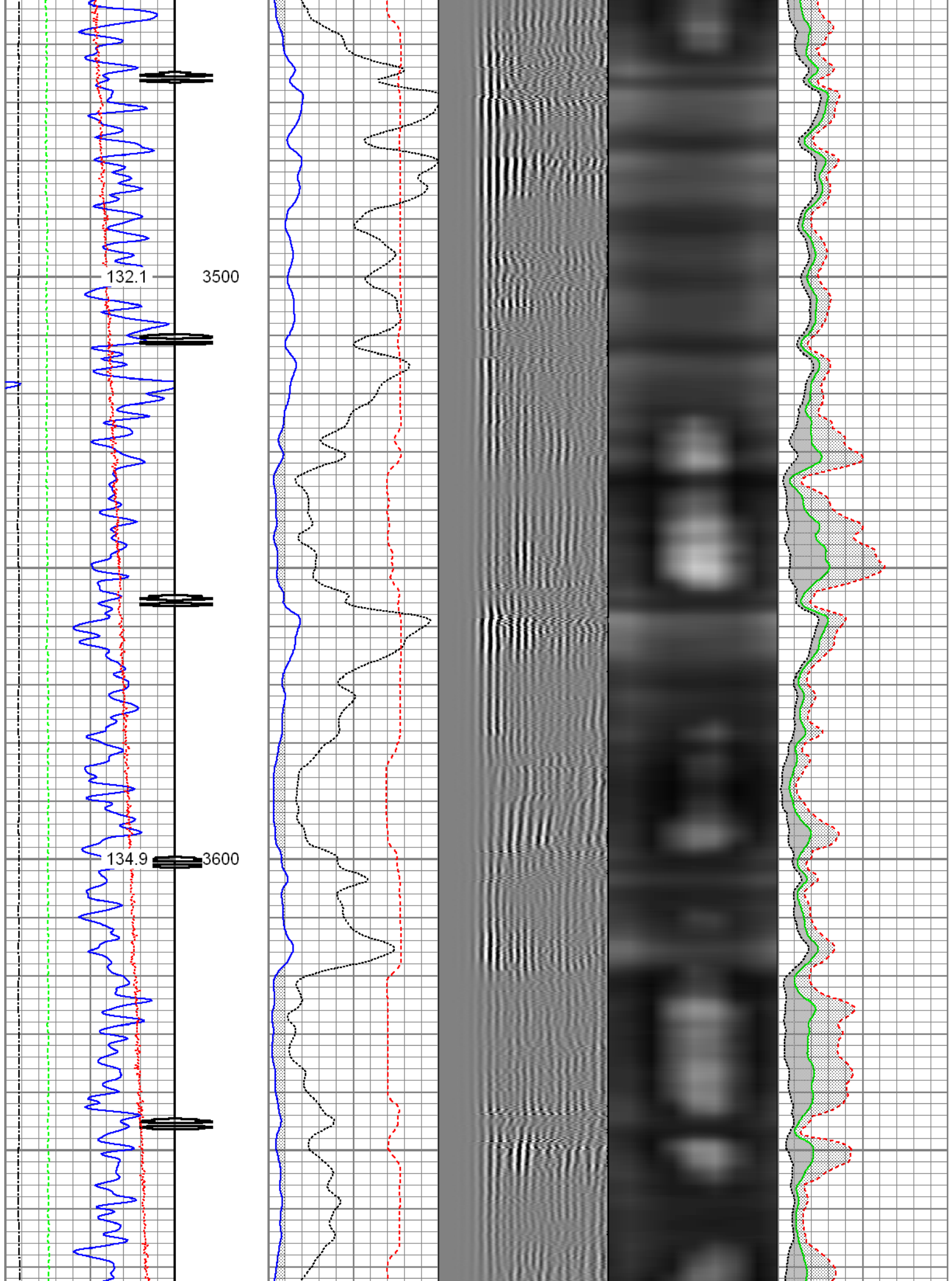


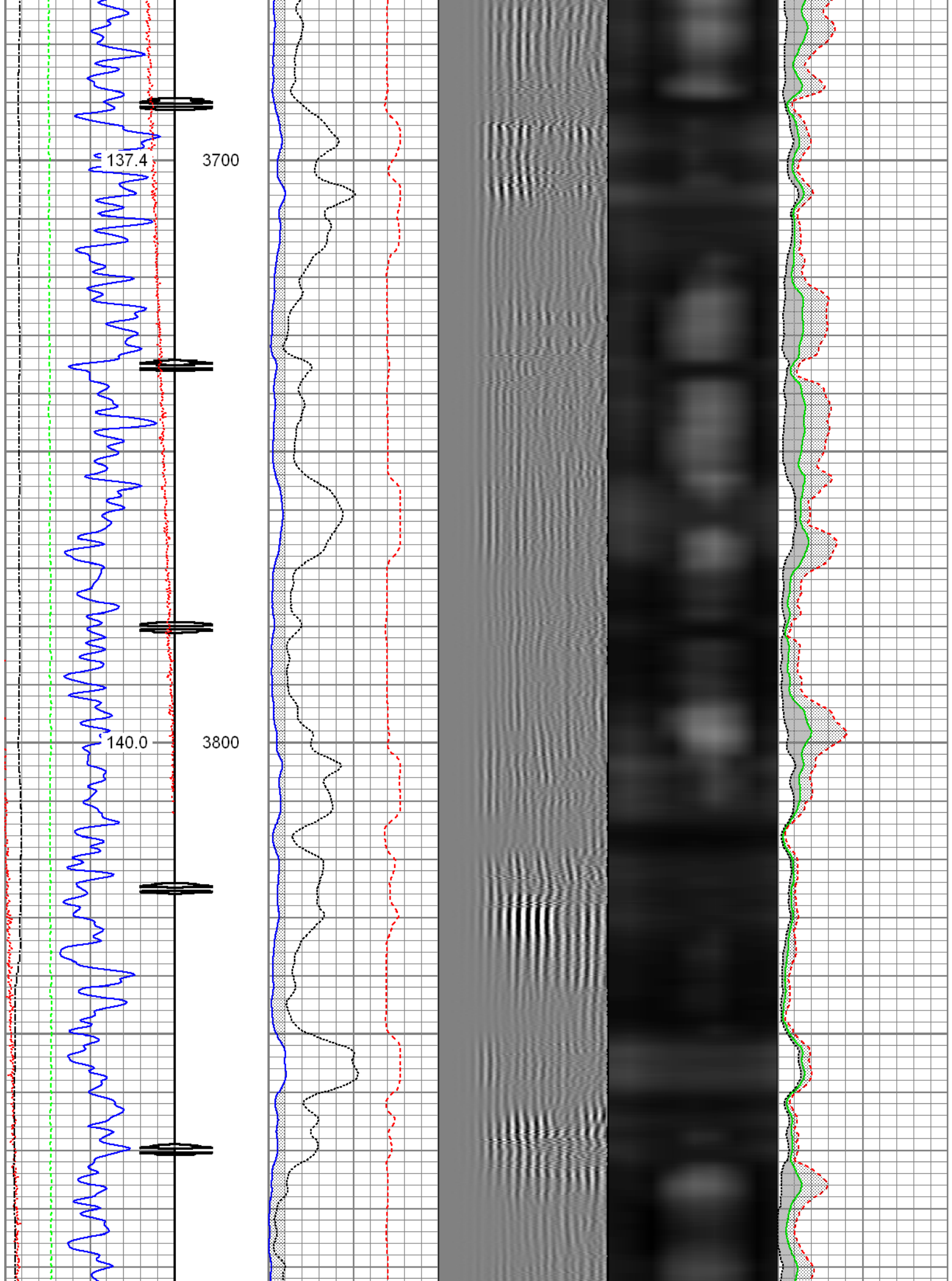




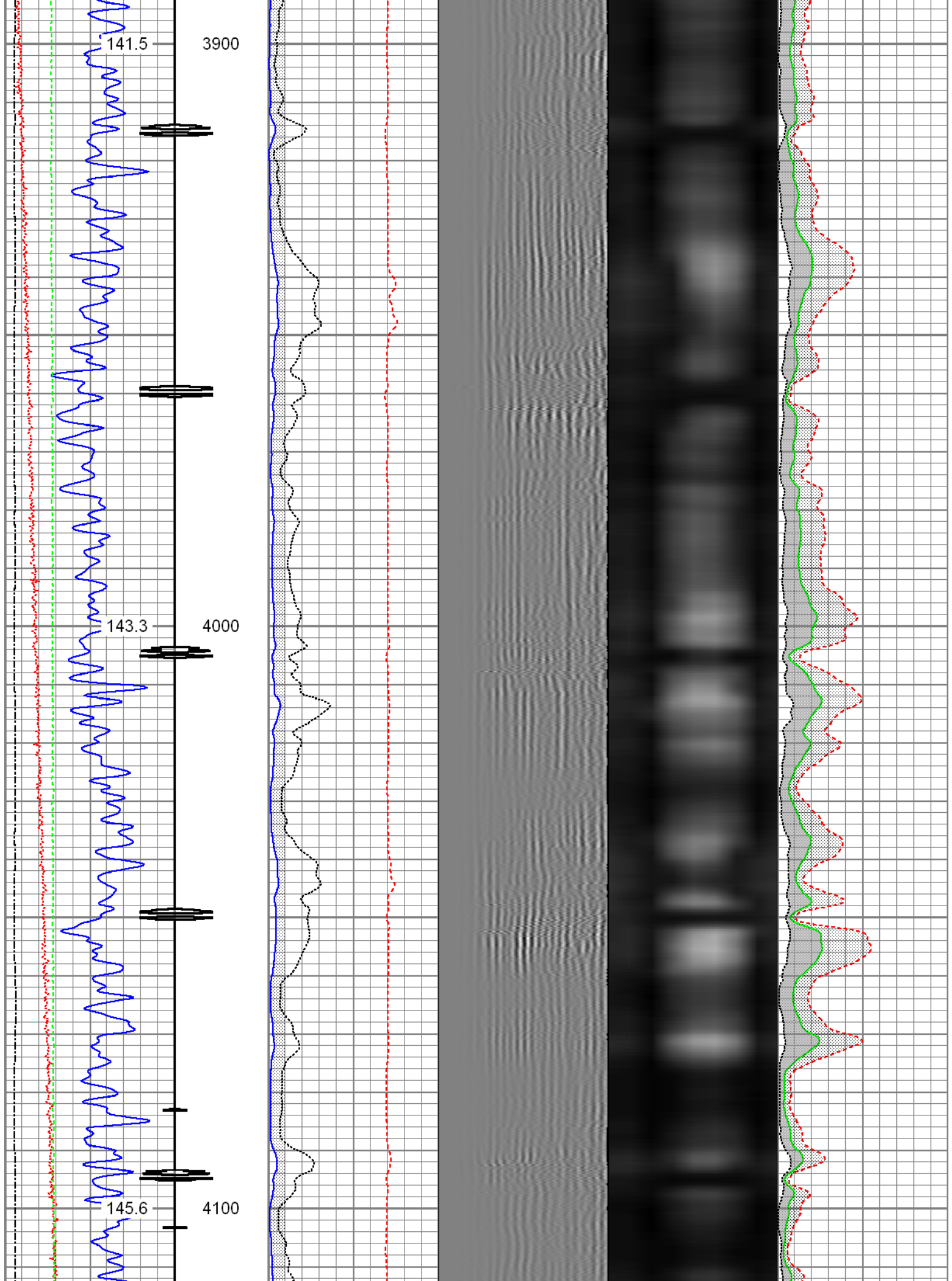




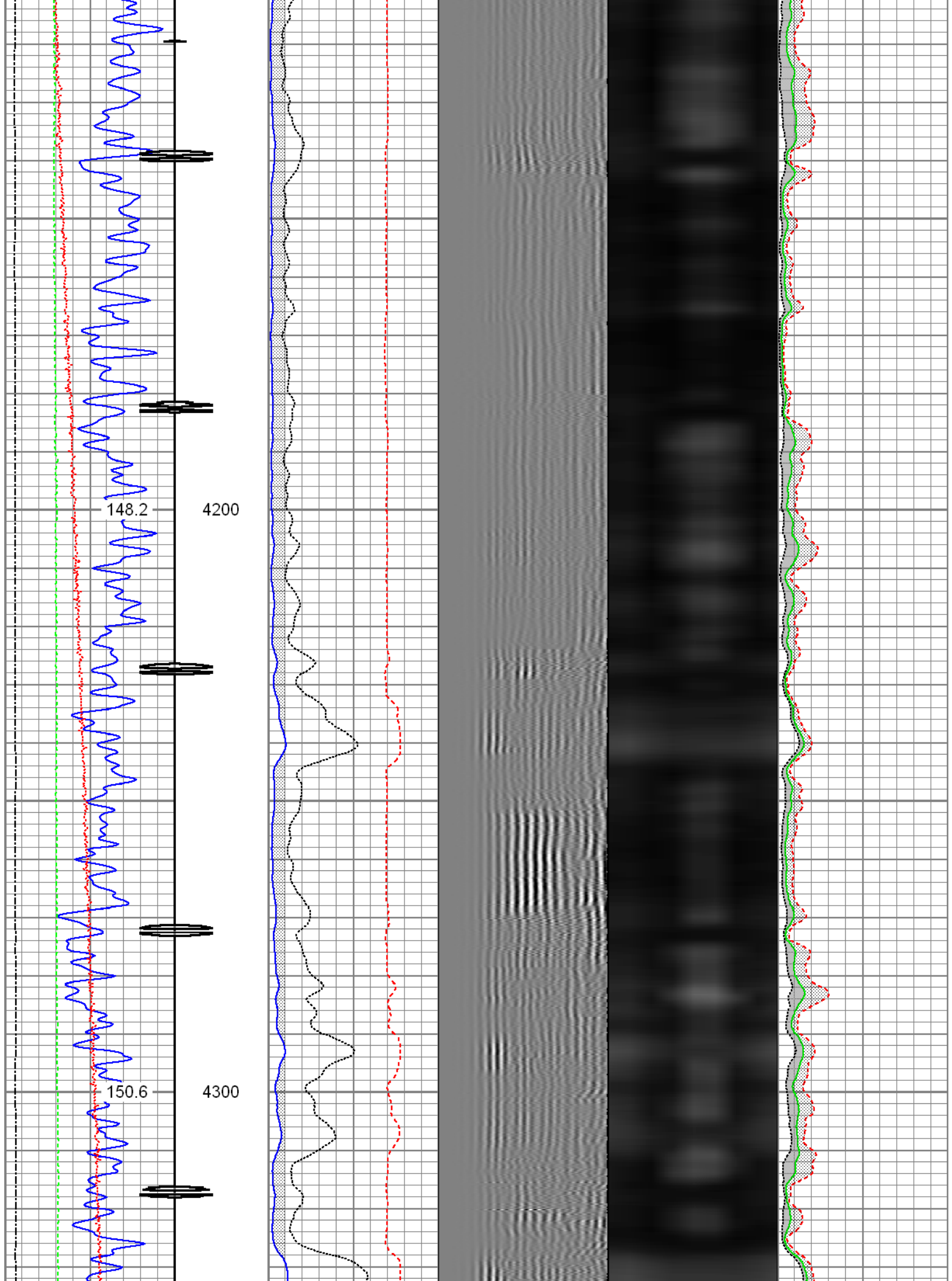


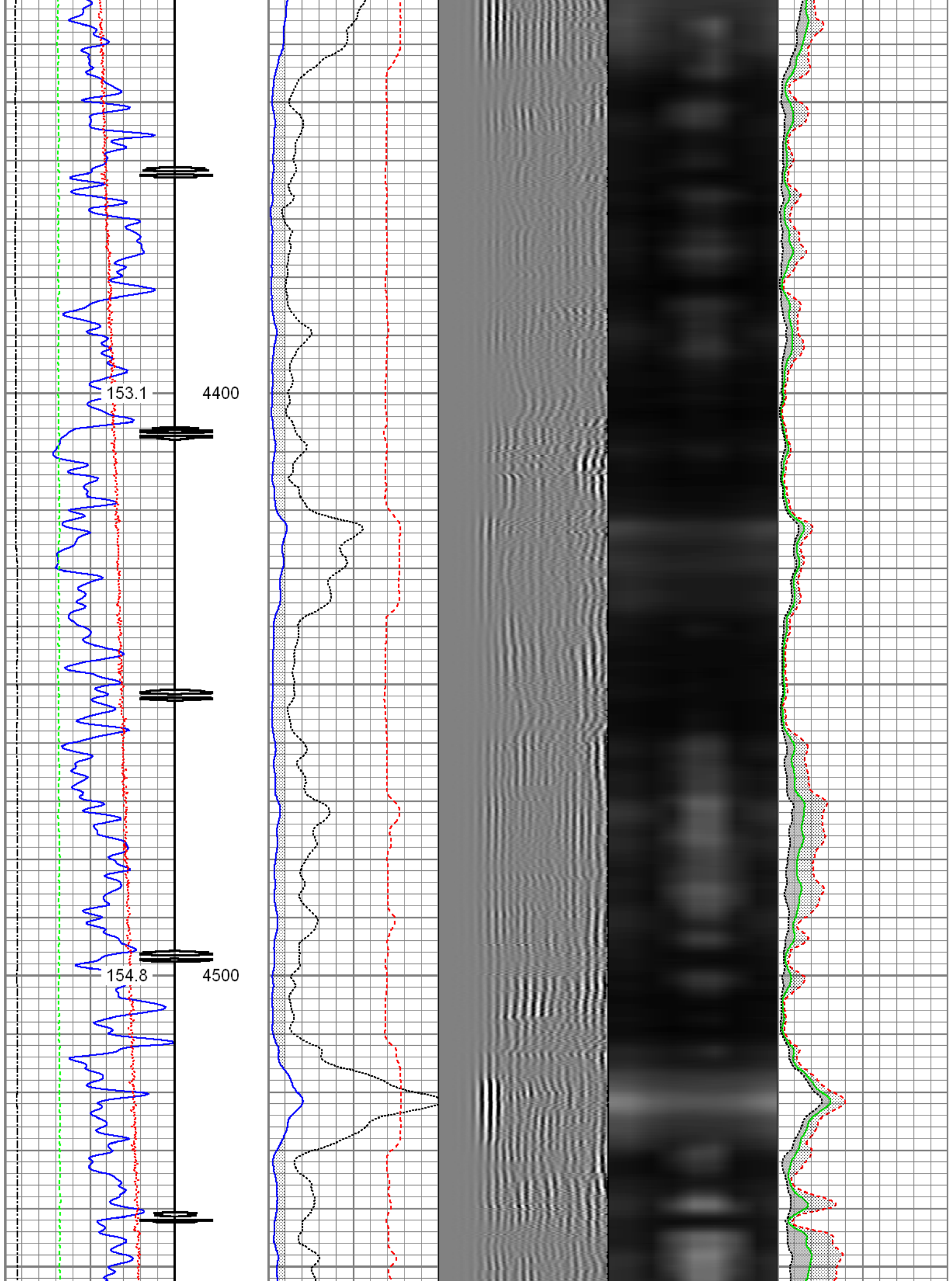


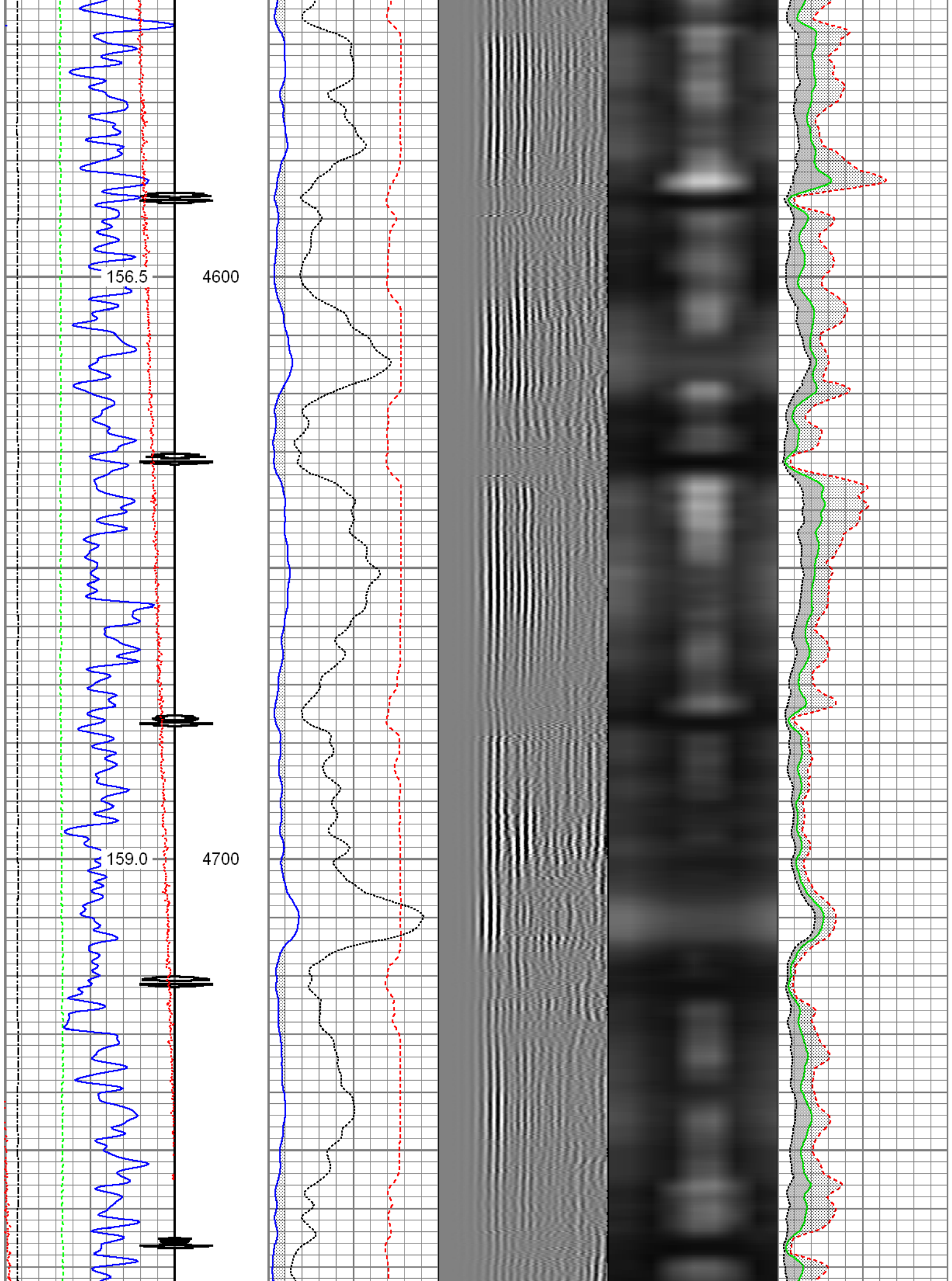




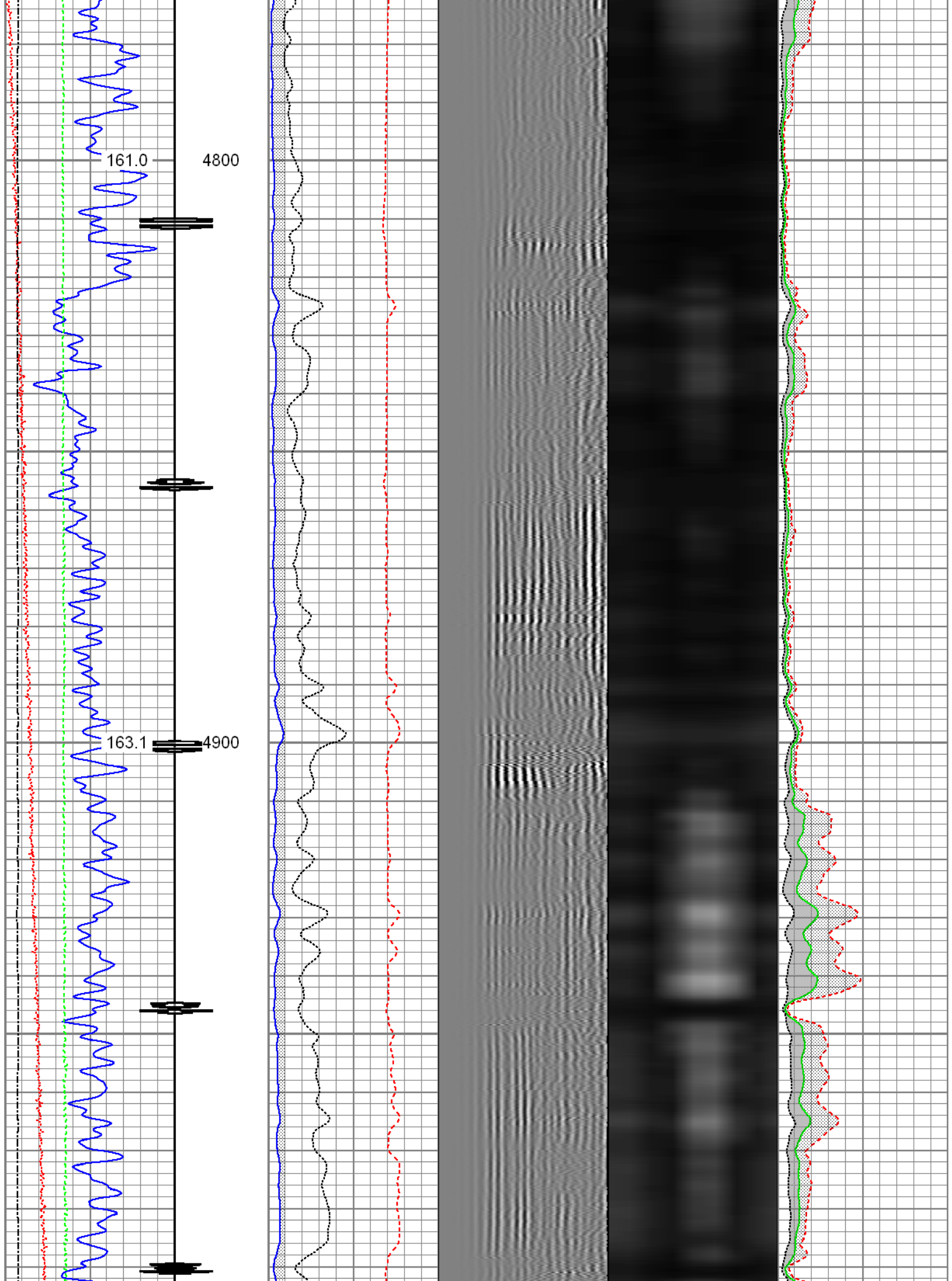


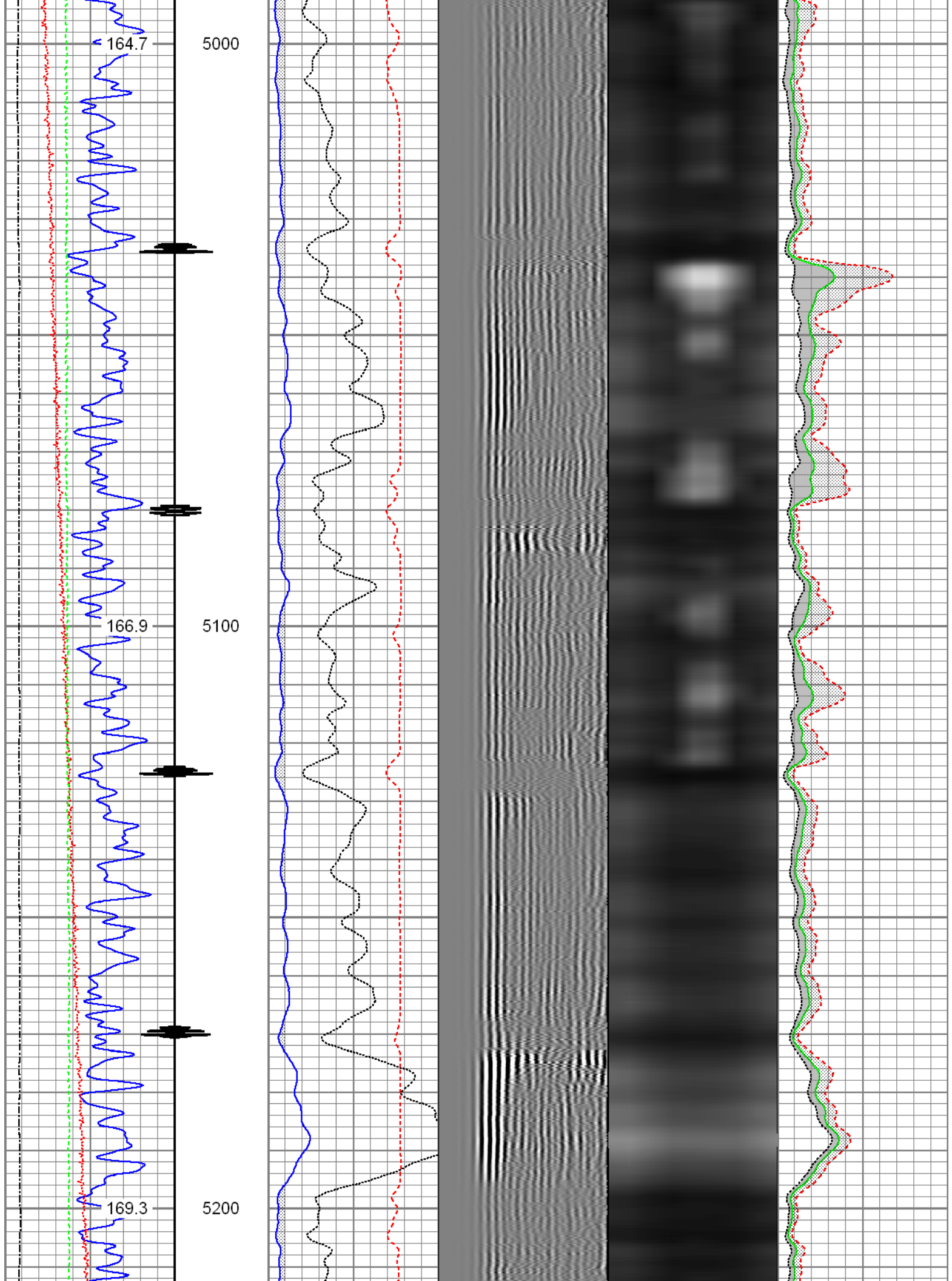


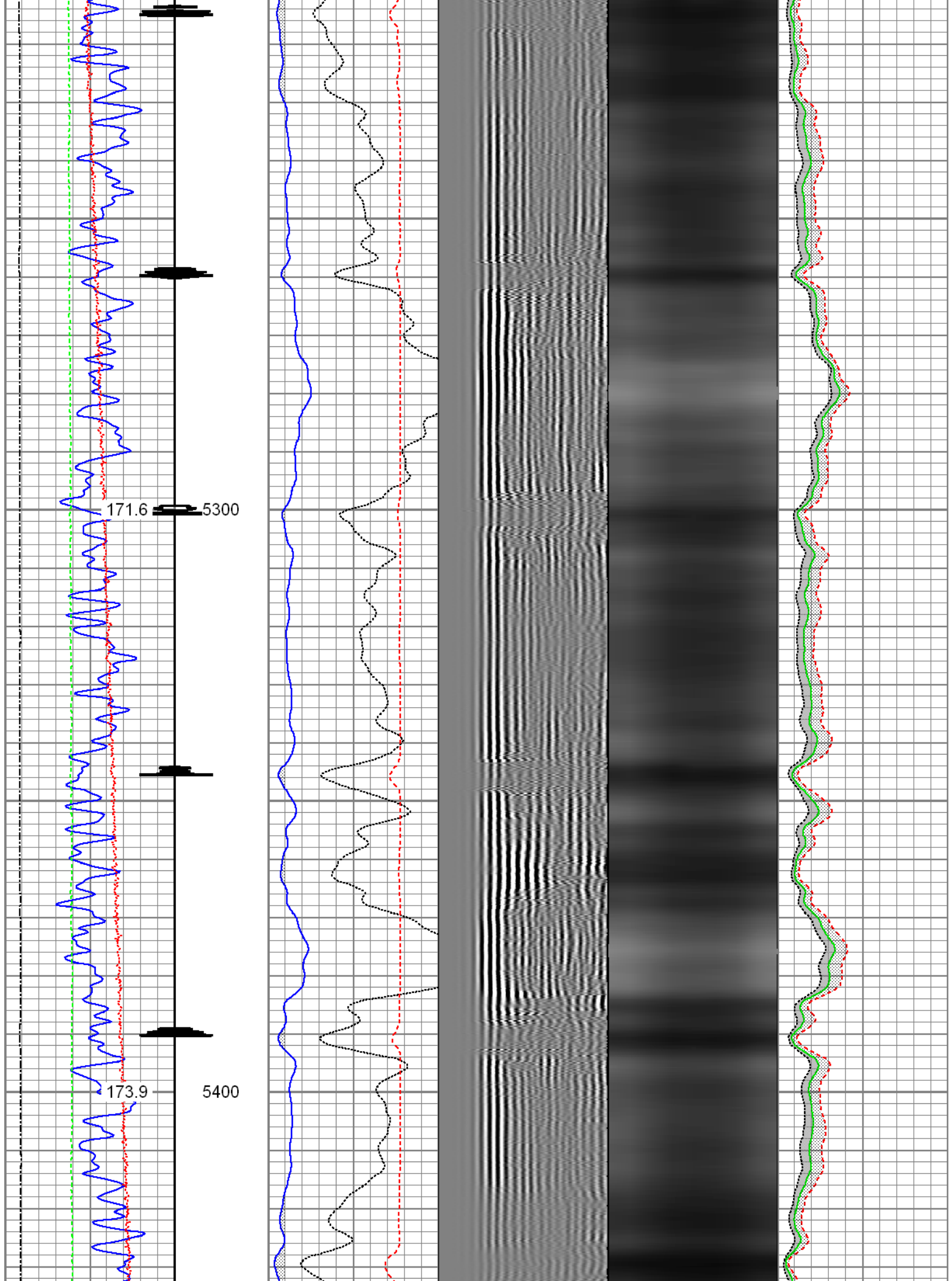




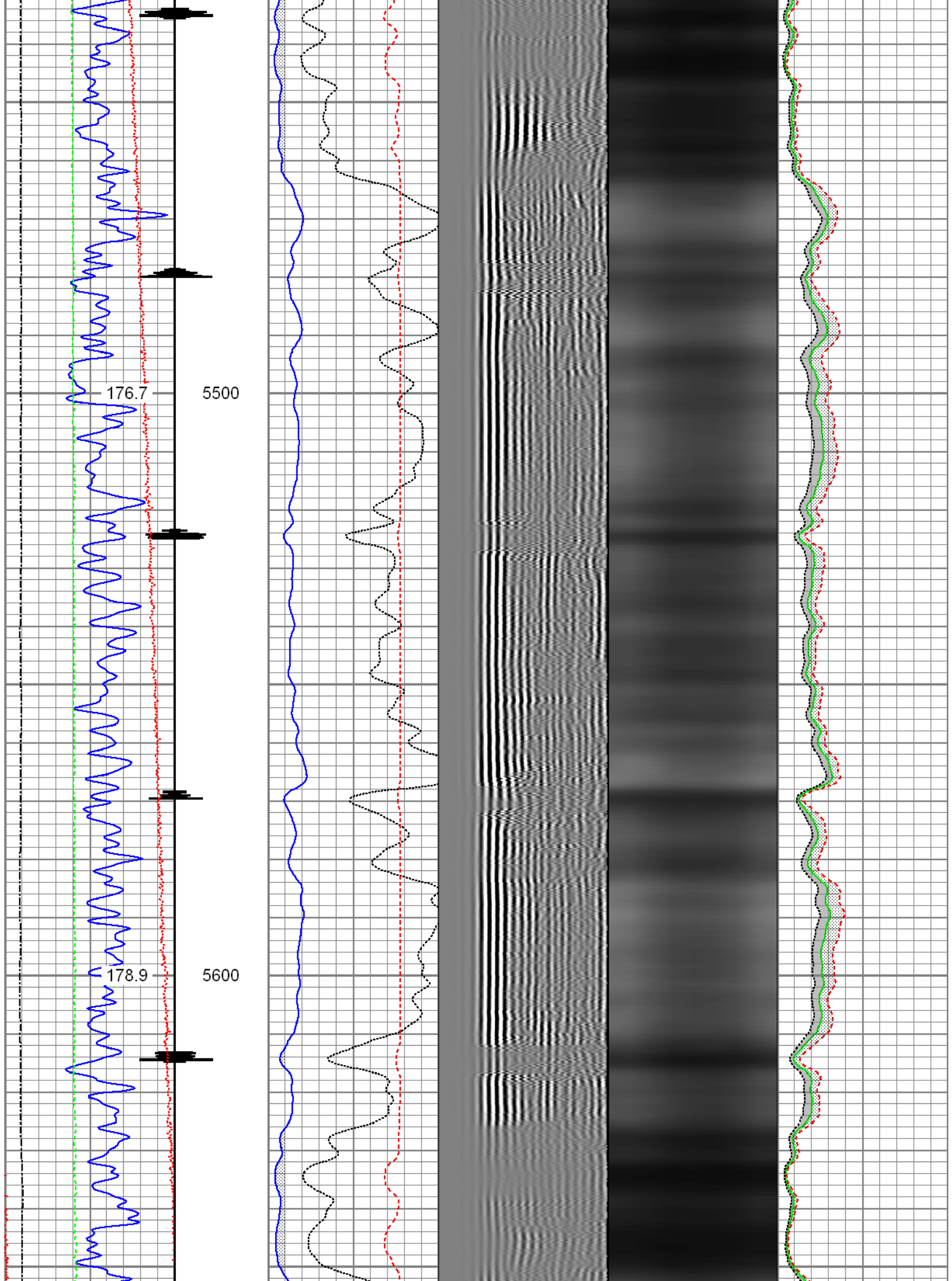


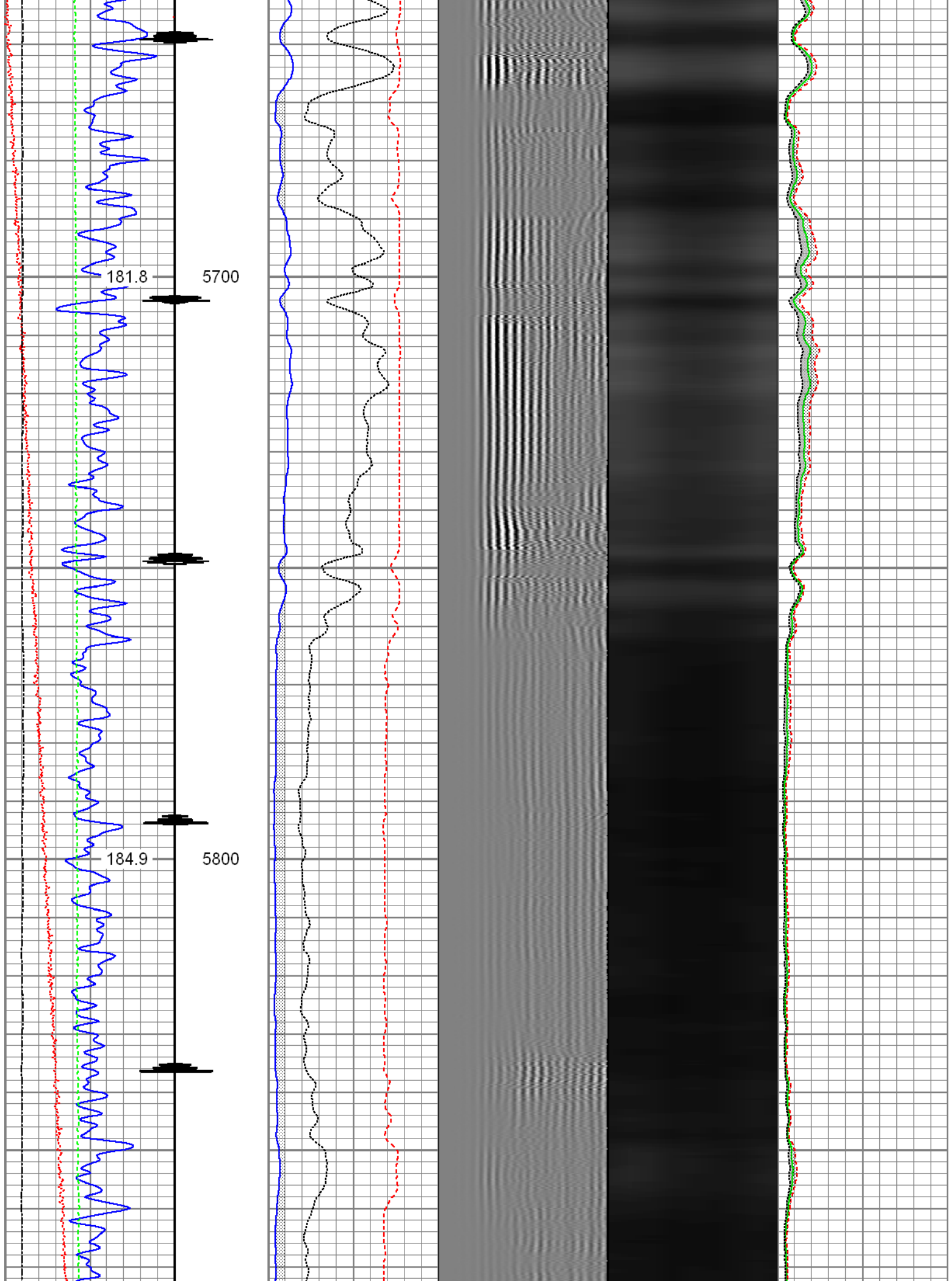


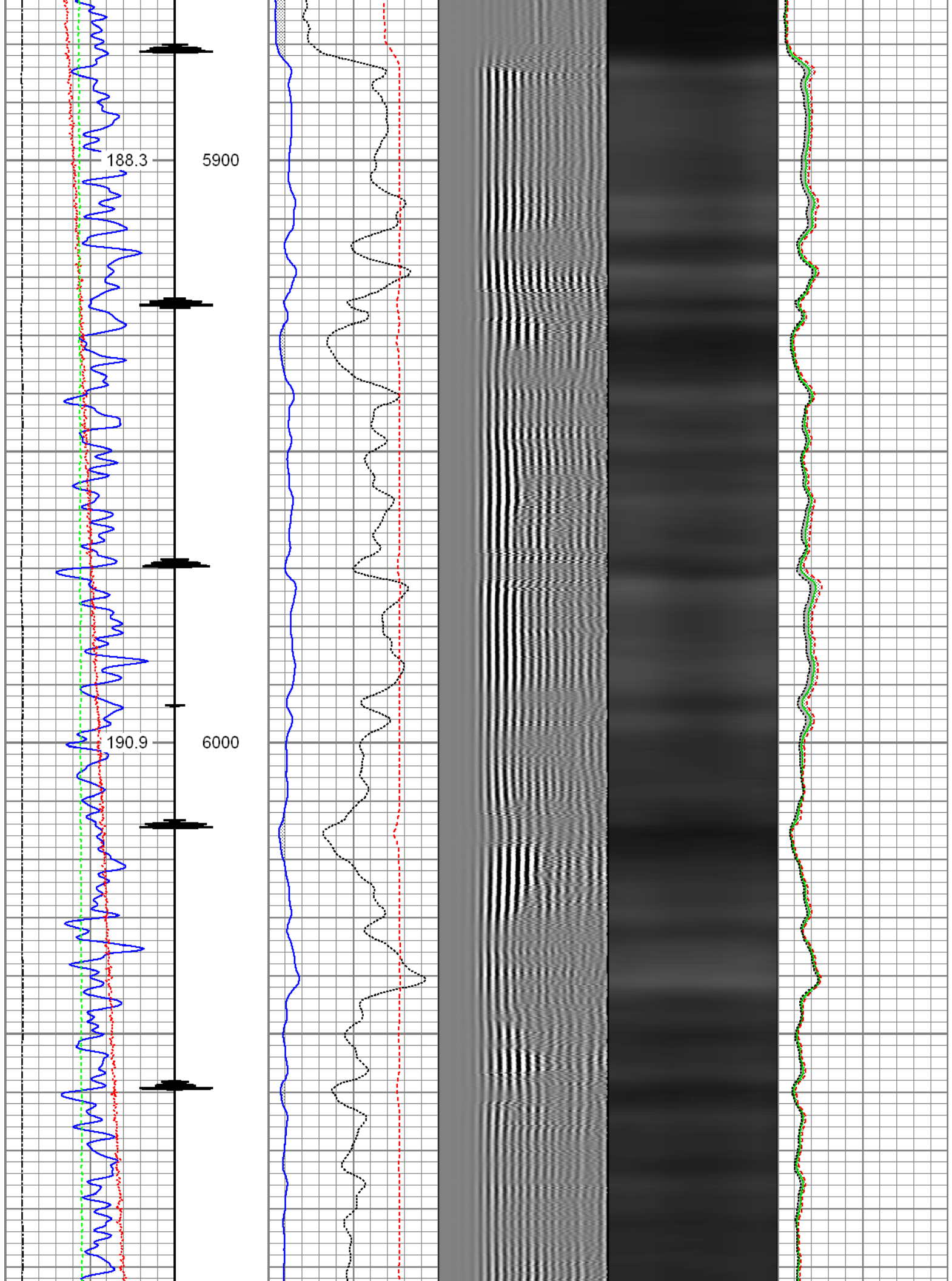




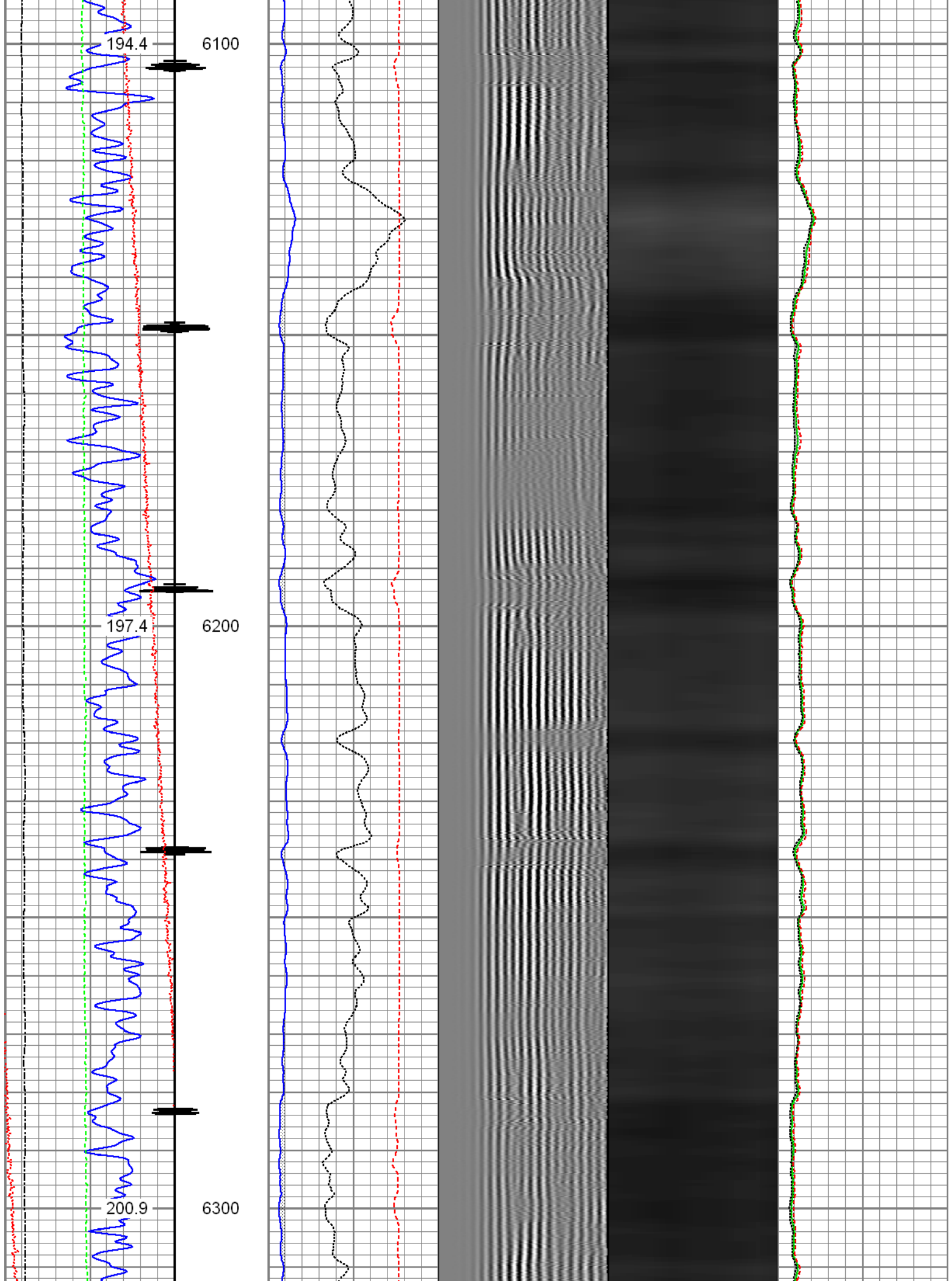


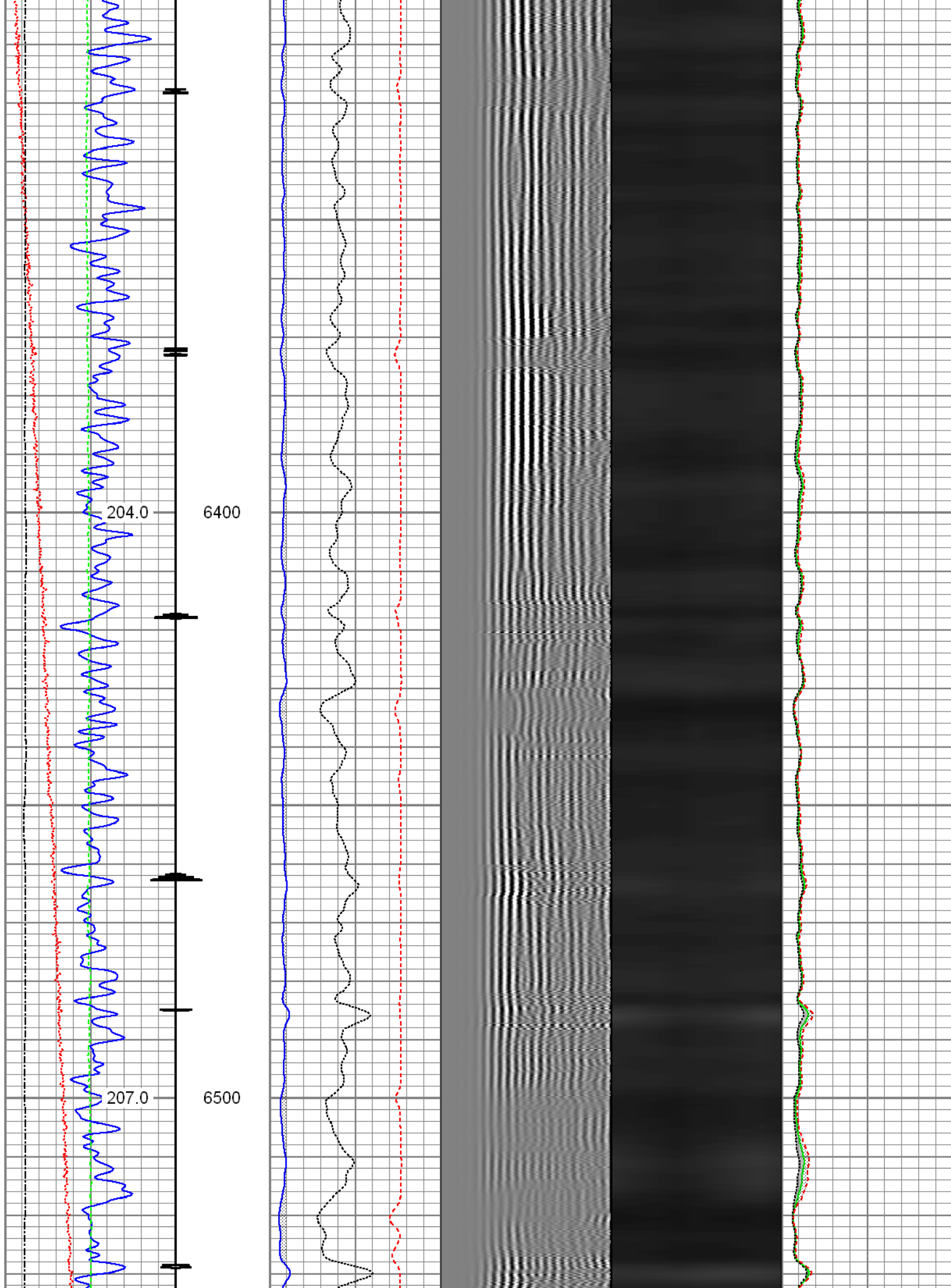


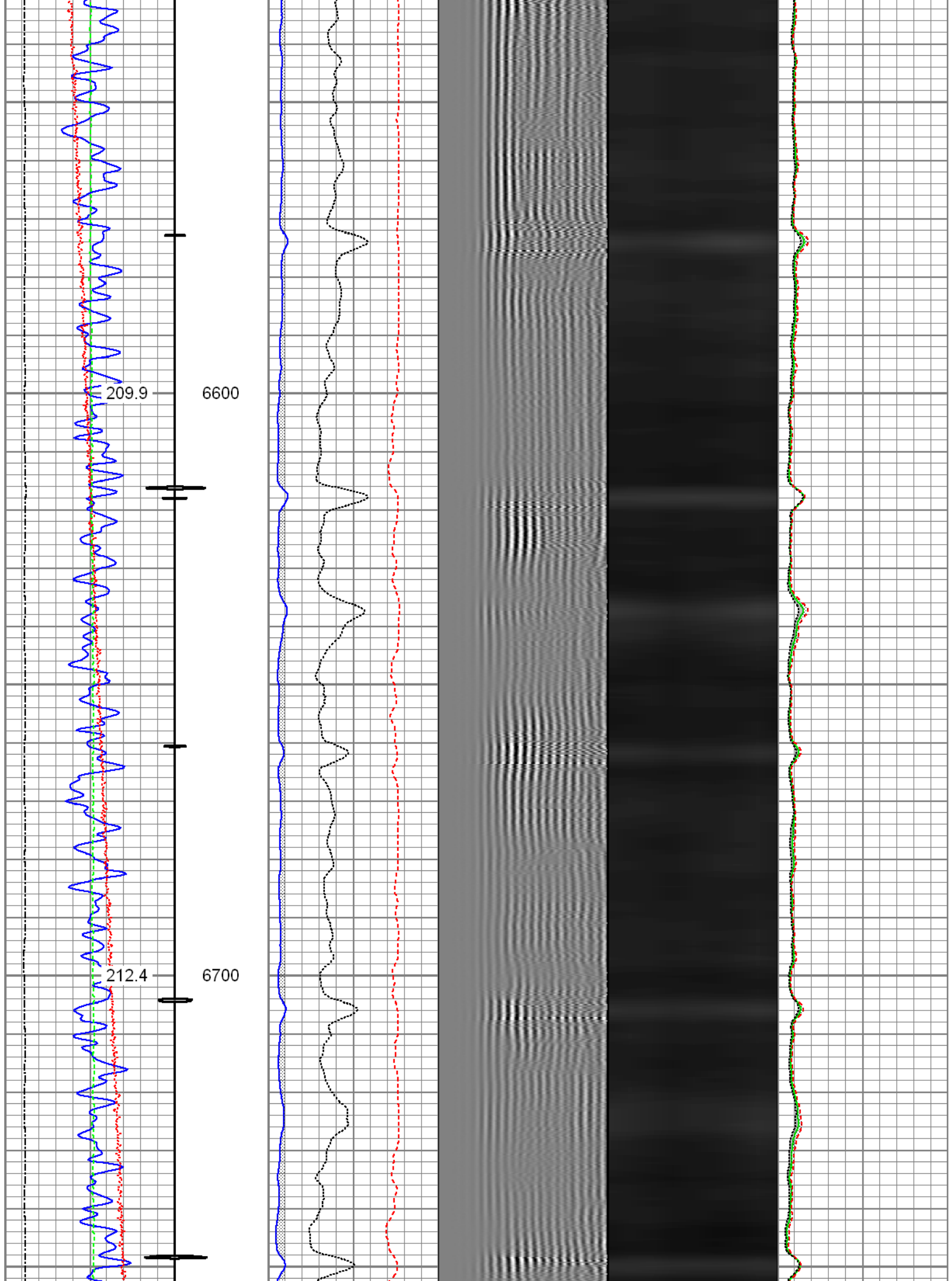




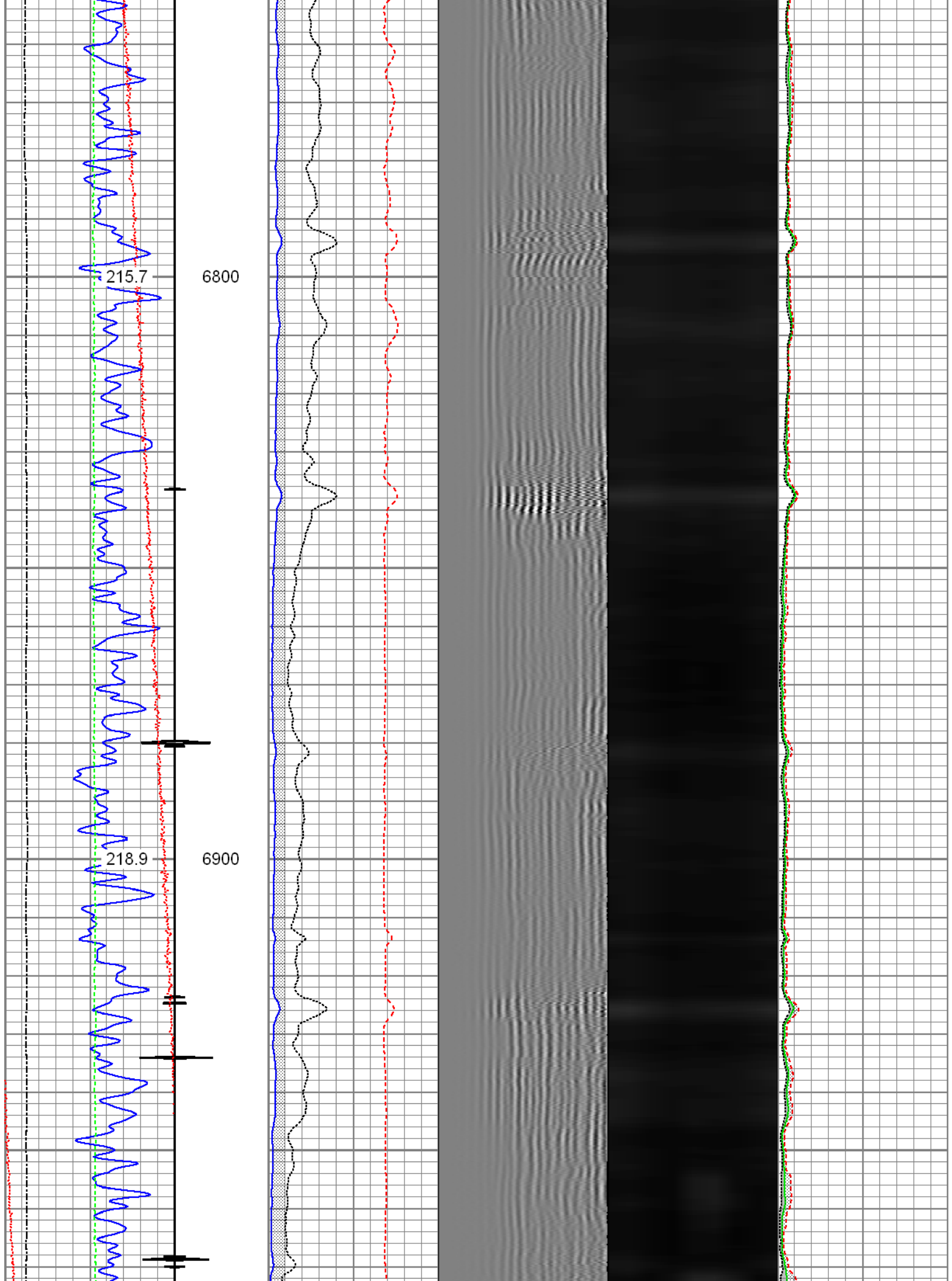


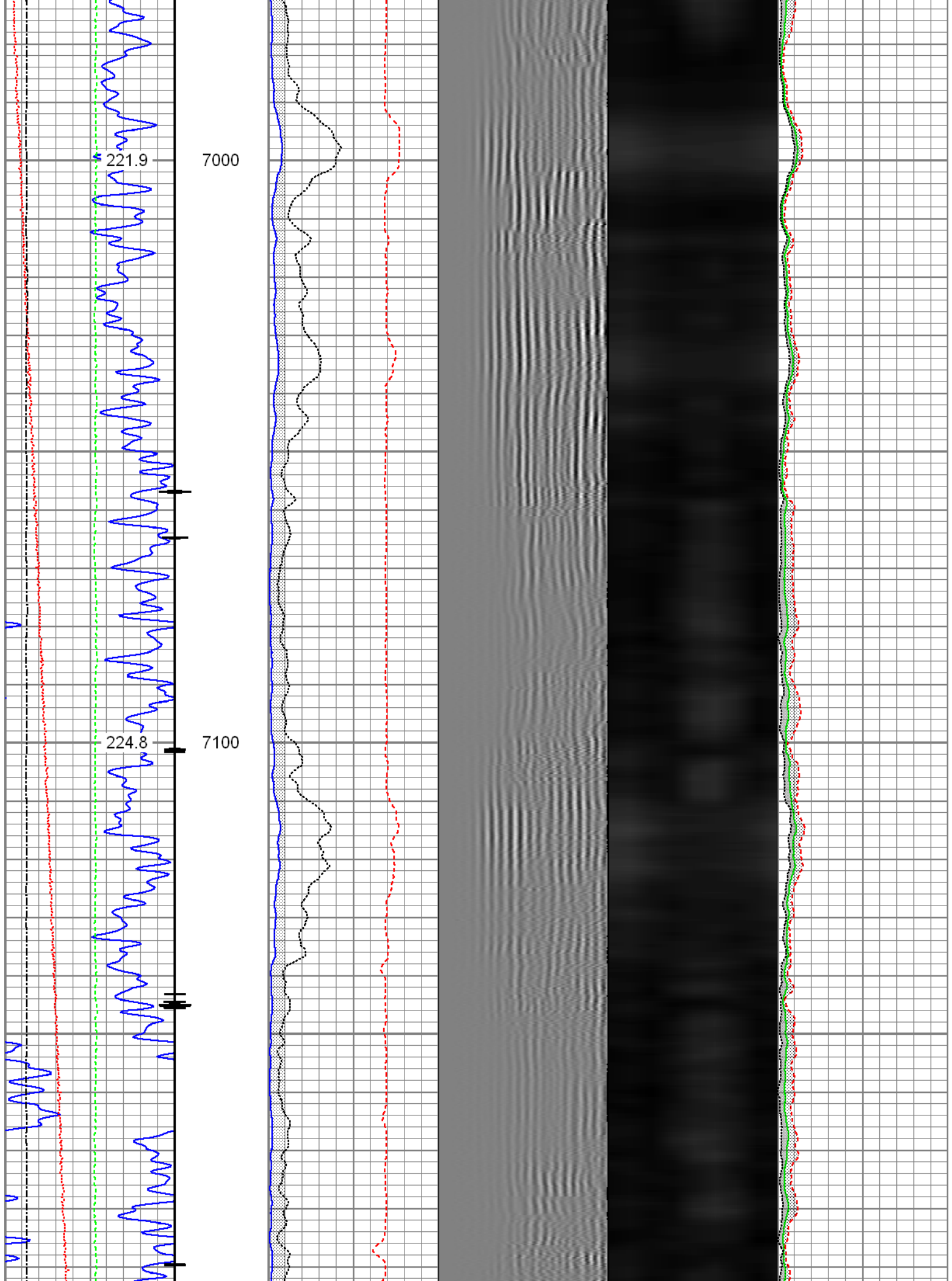


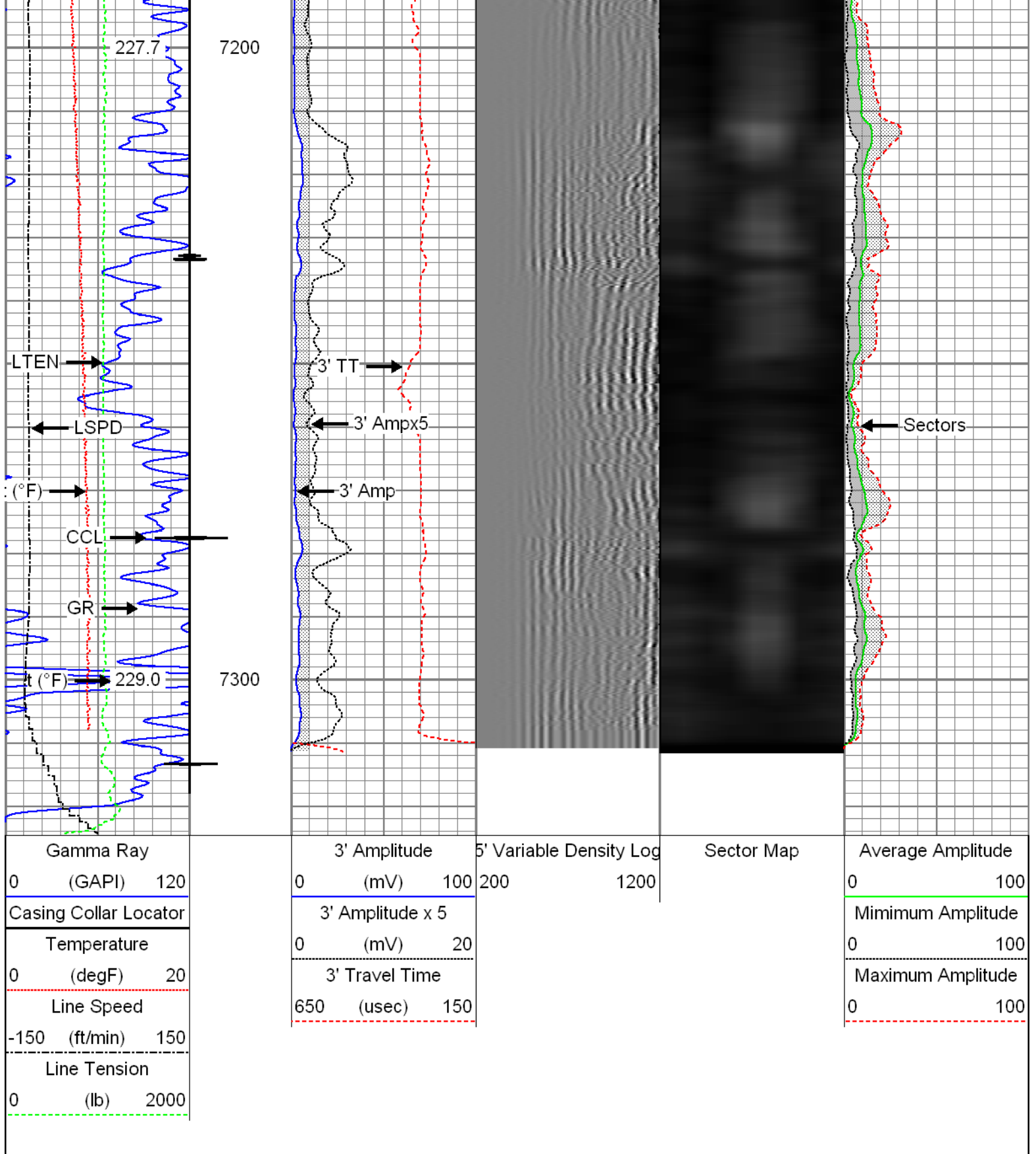












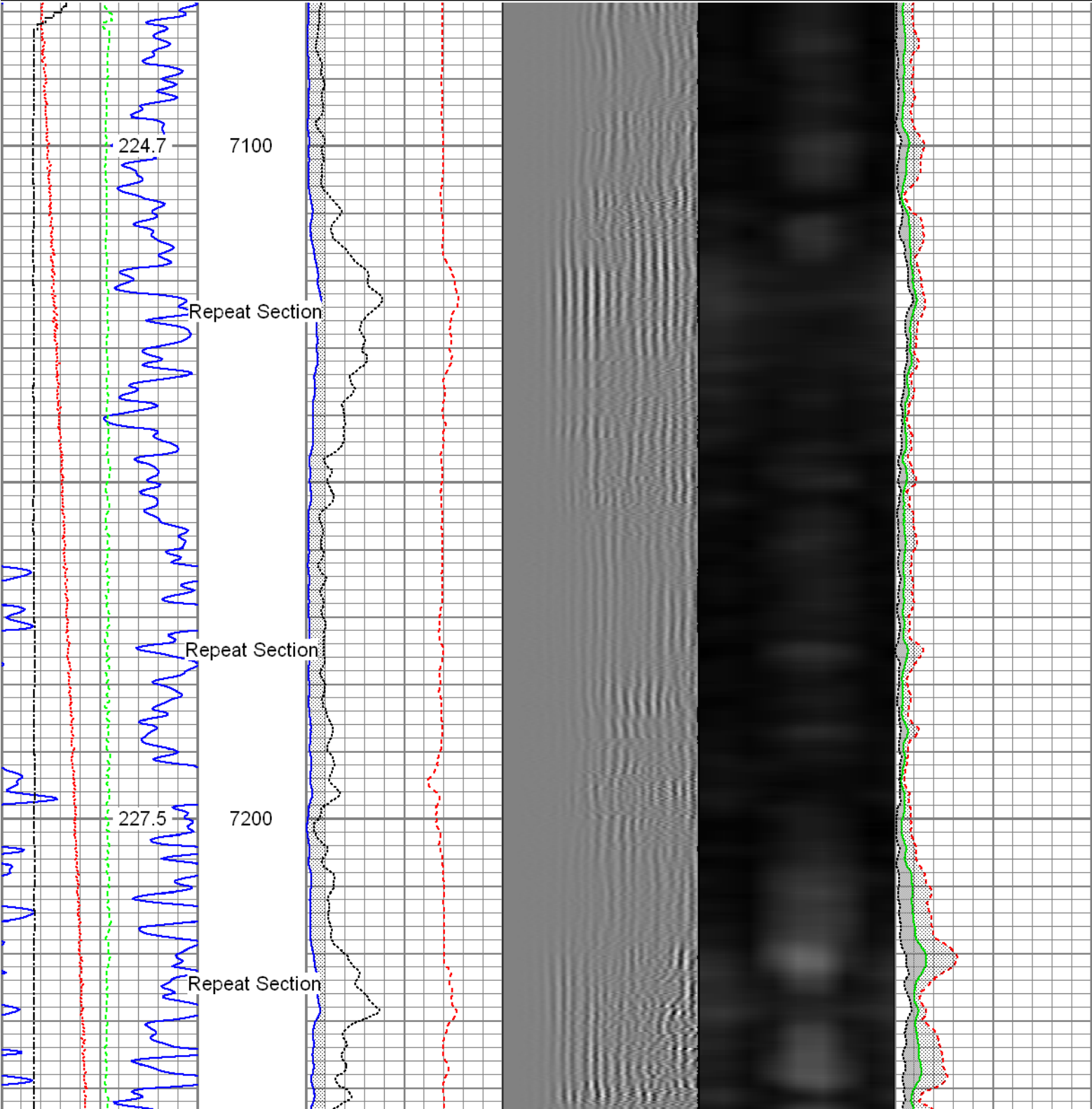
Repeat Pass

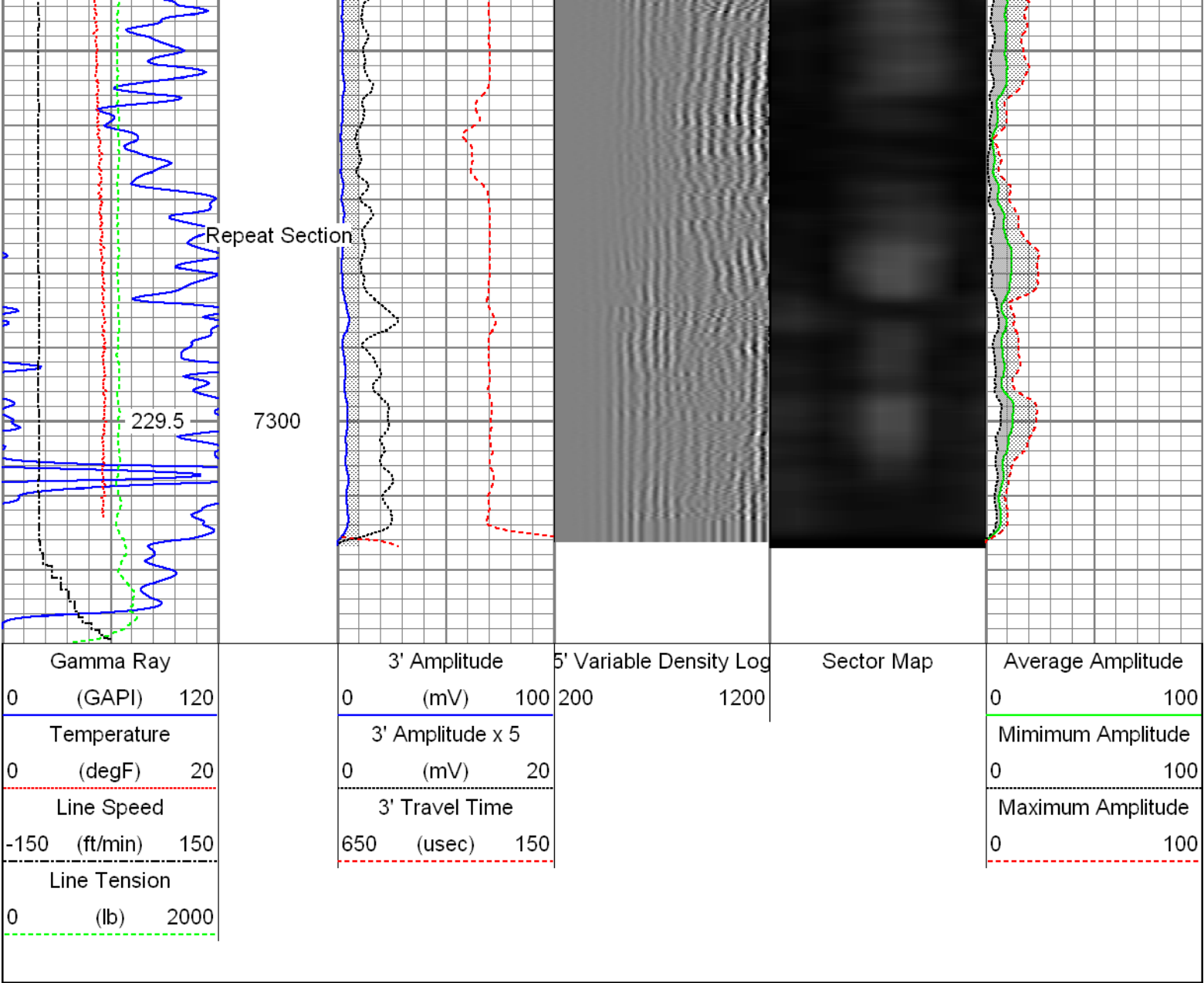
Recorded with 2800 PSI Surface Induced Pressure

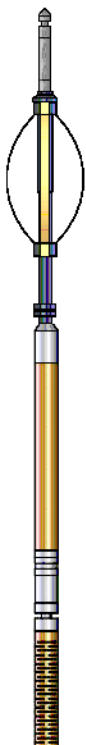
Database File: 0512341430\_anadarko\_viper pyro 39n2-10hz\_10-13-15\_rbl.db  
 Dataset Pathname: pass2  
 Presentation Format: radii



Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log	Sector Map	Average Amplitude
0120	0100	2001200		0100
Temperature (degF)	3' Amplitude x 5 (mV)			Minimum Amplitude
020	020			0100
Line Speed (ft/min)	3' Travel Time (usec)			Maximum Amplitude
-150150	650150			0100
Line Tension (lb)				
02000				





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			<b>T_CH14375_1_GO</b> Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			<b>Probe_IL_BS_Cent</b> Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
HeadVolt	19.49					
Temp	16.72					
WVF3FT	14.55		<b>Probe_RADII-C-2-3/4" (FW1302-002)</b> Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00

WVFCAL	14.55		Temperature Probe			
WVFS1	14.55					
WVFS2	14.55					
WVFS3	14.55					
WVFS4	14.55					
WVFS5	14.55					
WVFS6	14.55					
WVFS7	14.55					
WVFS8	14.55					
WVF5FT	13.55					
			Probe_IL_BS_Cent Probe 2-3/4\"/>	2.88	2.75	10.00
CCL	6.51					
DCCL	6.51					
			Probe_CCL_GR-2.75\"/>	4.54	2.75	55.00
GR	3.77					
			Probe_IL_BS_Cent Probe 2-3/4\"/>	2.88	2.75	10.00
Dataset: 0512341430_Anadarko_Viper Pyro 39N2-10HZ_10-13-15_RBL.db: field/well/run1/pass4 Total Length: 23.40 ft Total Weight: 194.00 lb O.D.: 2.75 in						

Calibration Report		
Database File:	0512341430_Anadarko_Viper Pyro 39N2-10HZ_10-13-15_RBL.db	
Dataset Pathname:	pass4	
Dataset Creation:	Tue Oct 13 15:46:21 2015 by Log 7.0 B1	
Gamma Ray Calibration Report		
Serial Number:	FW1212-026	
Tool Model:	2.75"Digital	
Performed:	Tue Oct 13 15:23:30 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1302-002	
Tool Model:	2-3/4"	



Calibration Casing Diameter:	5.500	in
Calibration Depth:	7392.274	ft

Master Calibration, performed Tue Oct 13 13:40:11 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.010	0.639	0.800	71.921	113.133	-0.317
CAL	0.010	0.780				
5'	0.010	0.477	0.800	71.921	152.256	-0.722
SUM						
S1	0.010	0.597	0.000	100.000	170.425	-1.673
S2	0.010	0.589	0.000	100.000	172.761	-1.696
S3	0.010	0.606	0.000	100.000	167.728	-1.644
S4	0.010	0.646	0.000	100.000	157.200	-1.556
S5	0.010	0.689	0.000	100.000	147.161	-1.453
S6	0.010	0.692	0.000	100.000	146.561	-1.481
S7	0.010	0.665	0.000	100.000	152.782	-1.526
S8	0.010	0.627	0.000	100.000	162.067	-1.610

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

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.010	0.780	1.000	0.000

Air Zero Calibration, performed Tue Oct 13 13:40:27 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.010		0.000		0.000	
5'	0.010		0.000		0.000	
SUM						
S1	0.010		0.000		0.000	
S2	0.010		0.000		0.000	
S3	0.010		0.000		0.000	
S4	0.010		0.000		0.000	
S5	0.010		0.000		0.000	
S6	0.010		0.000		0.000	
S7	0.010		0.000		0.000	
S8	0.010		0.000		0.000	



Company	Kerr-McGee Oil and Gas Onshore LP
Well	Viper Pyro 39N2-10HZX
Field	Wattenberg
County	Weld
State	Colorado