



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil and Gas Onshore LP		
Well	Green 1C-8HZ		
Field	Wattenberg		
County	Weld		
State	Colorado		
Company		Kerr-McGee Oil and Gas Onshore LP	
Well		Green 1C-8HZ	
Field		Wattenberg	
County		Weld	State Colorado
Location:		API # : 05-123-40839	
SEC 8		TWP 1N	RGE 65W
Permanent Datum		Ground Level	Elevation 4972'
Log Measured From		Kelly Bushing	16 FT
Drilling Measured From		Kelly Bushing	Elevation K.B. 4988' D.F. 4987' G.L. 4972'

Date	28-JUL-2015
Run Number	Two
Depth Driller	13608 FT
Depth Logger	6950 FT
Bottom Logged Interval	6943 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	---
Estimated Cement Top	58 FT
Time Well Ready	ROA
Time Logger on Bottom	1:46 PM
Equipment Number	HD-0255
Location	Ft. Lupton, CO
Recorded By	R. Cameron
Witnessed By	DJ Anderson
S. Hopper	

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	9 5/8	36	J-55 LTC	Surface	1578 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	13608 FT		
Intermediate #2							
Liner							

<<<< 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 ran as per customer request

Log ran from as deep as possible to surface
Log ran with 2800 PSI surface induced pressure
Logging Tools were clean

Thank you for Choosing FMC Technologies Completion Services, Inc.!!

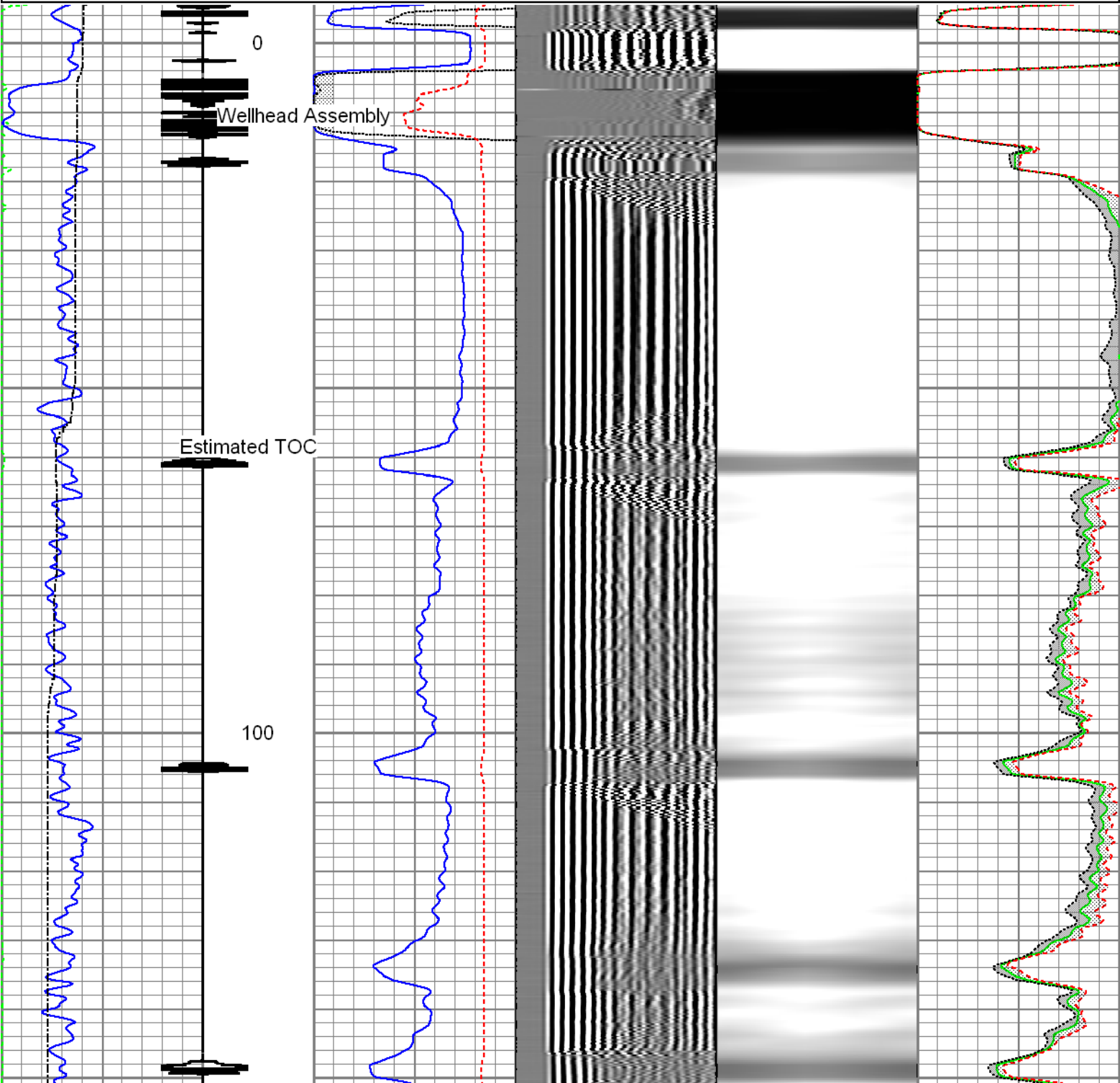


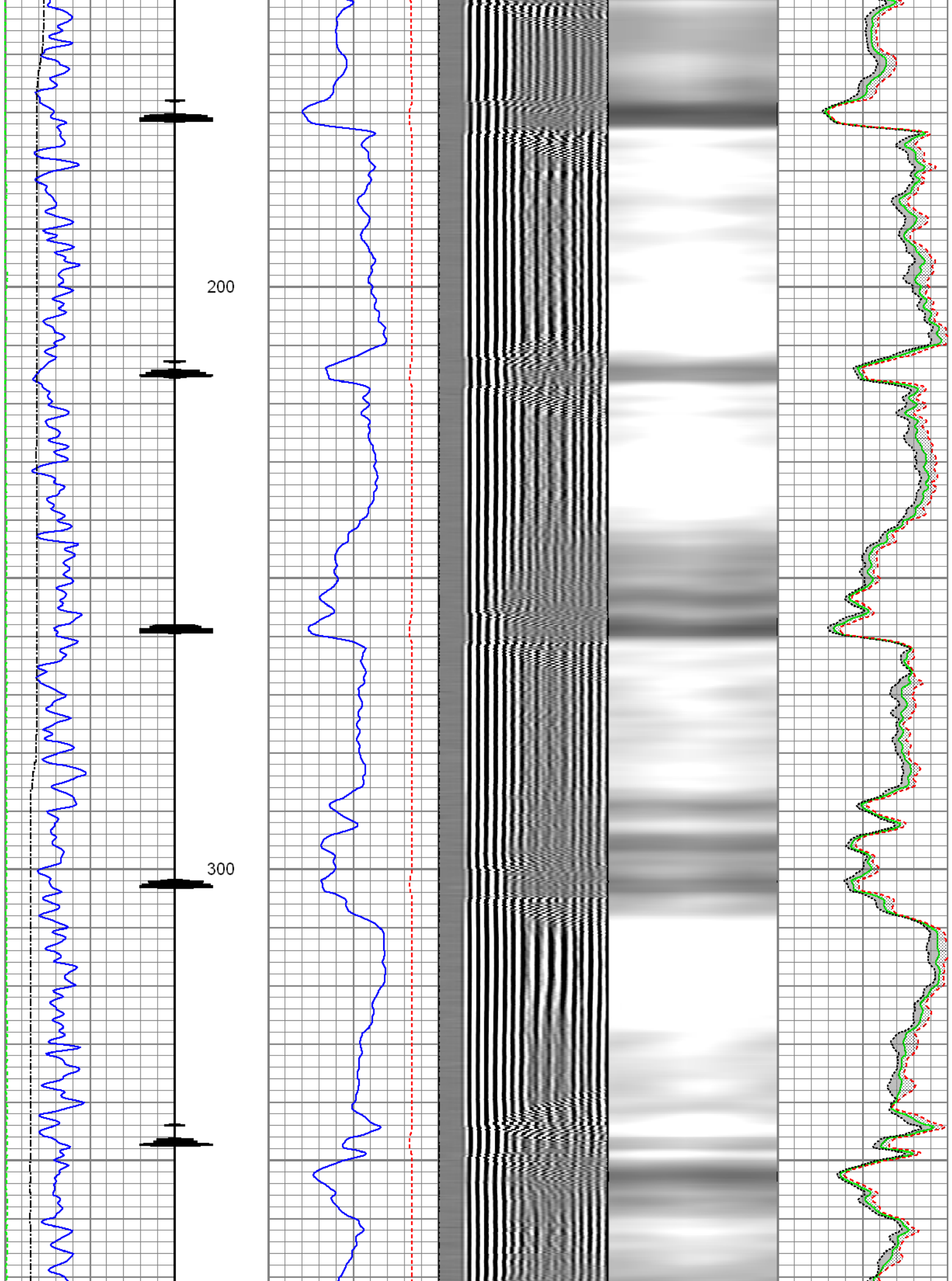
Main Pass

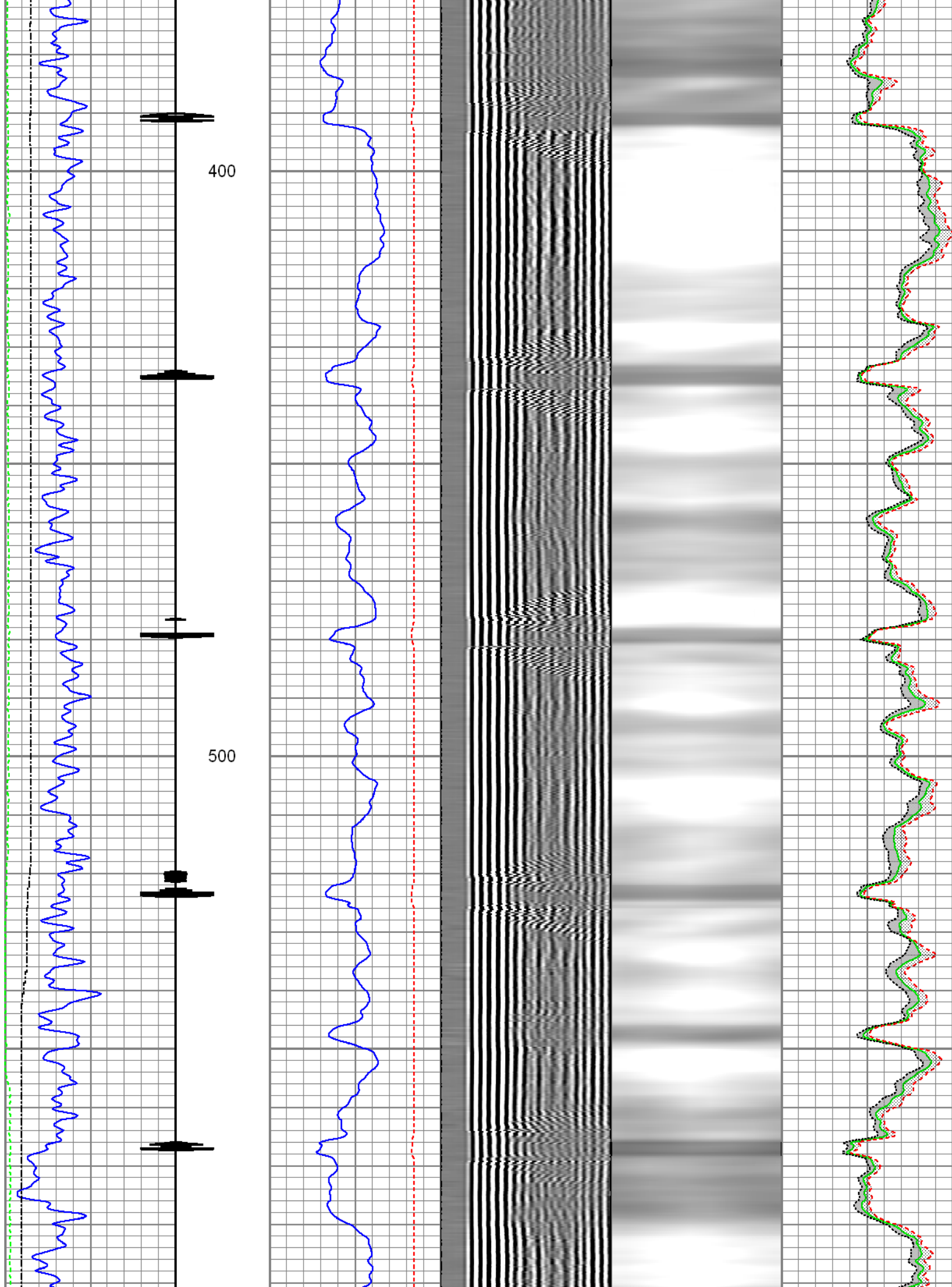
Recorded with 2800 PSI Surface Induced Pessure

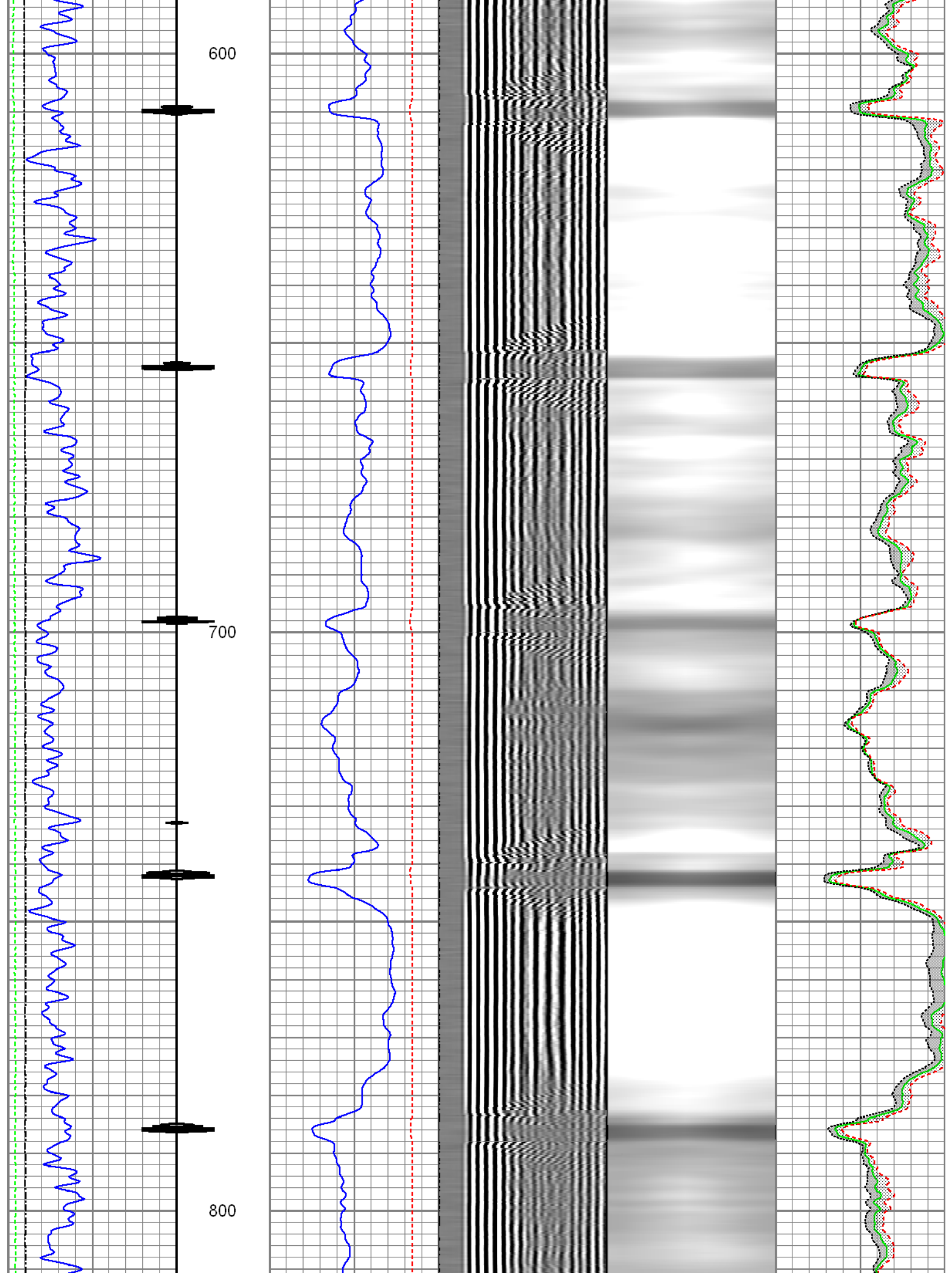
Database File: 0512340839_anadarko_green 1c-8hz_07-28-15_rbl.db
Dataset Pathname: pass6
Presentation Format: rbt004
Dataset Creation: Tue Jul 28 13:45:14 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

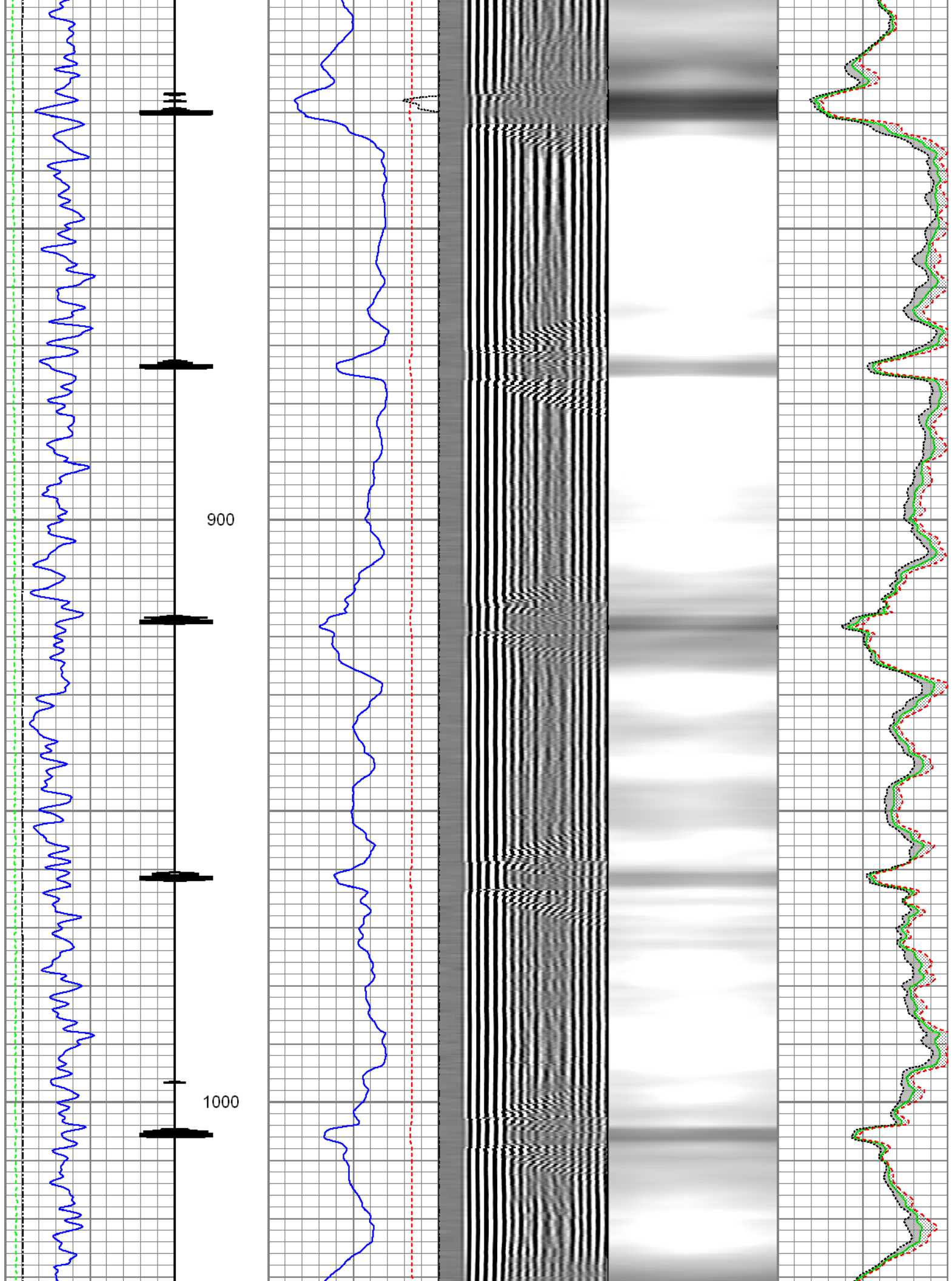
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-150 (ft/min) 150	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				

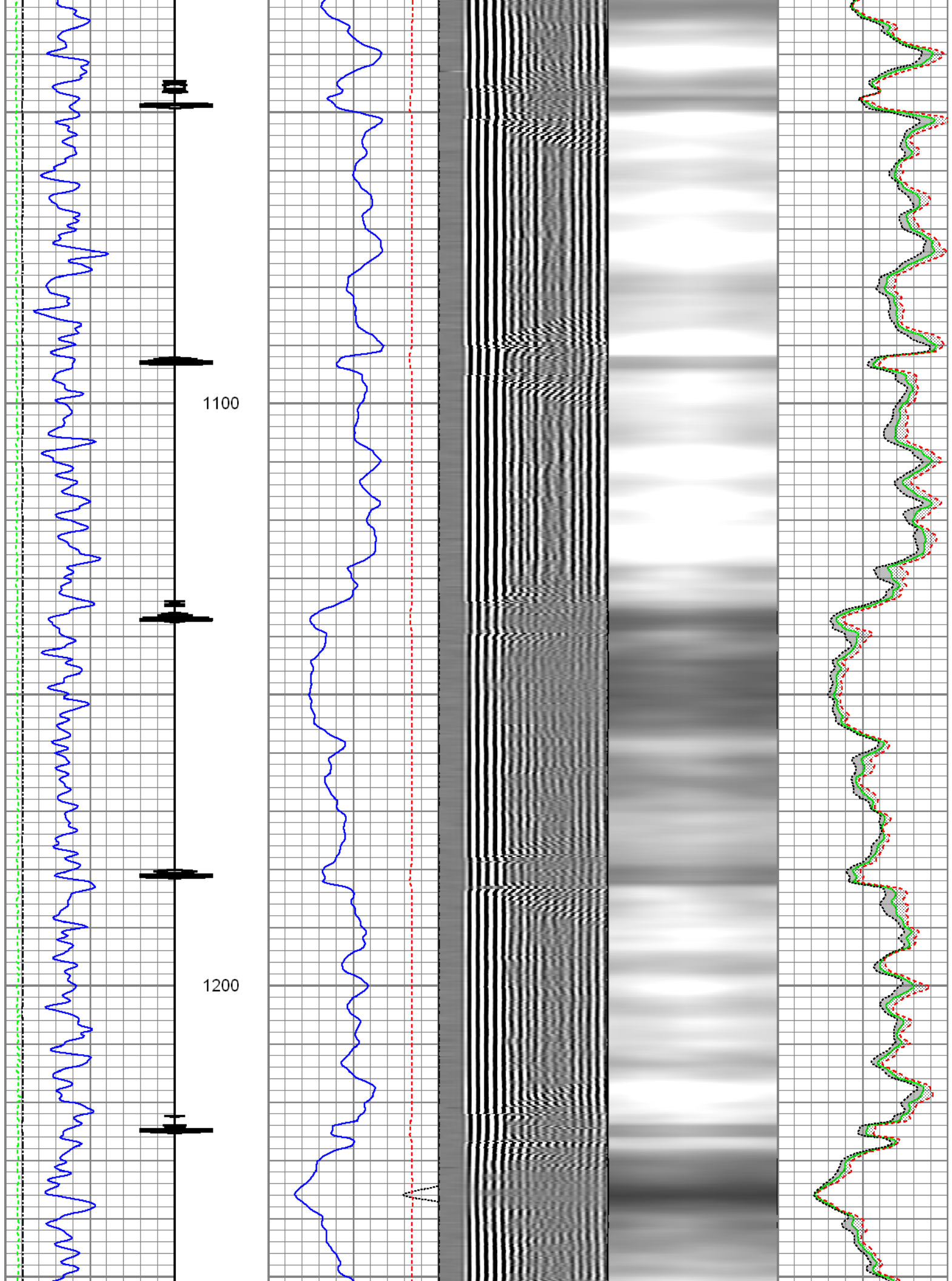


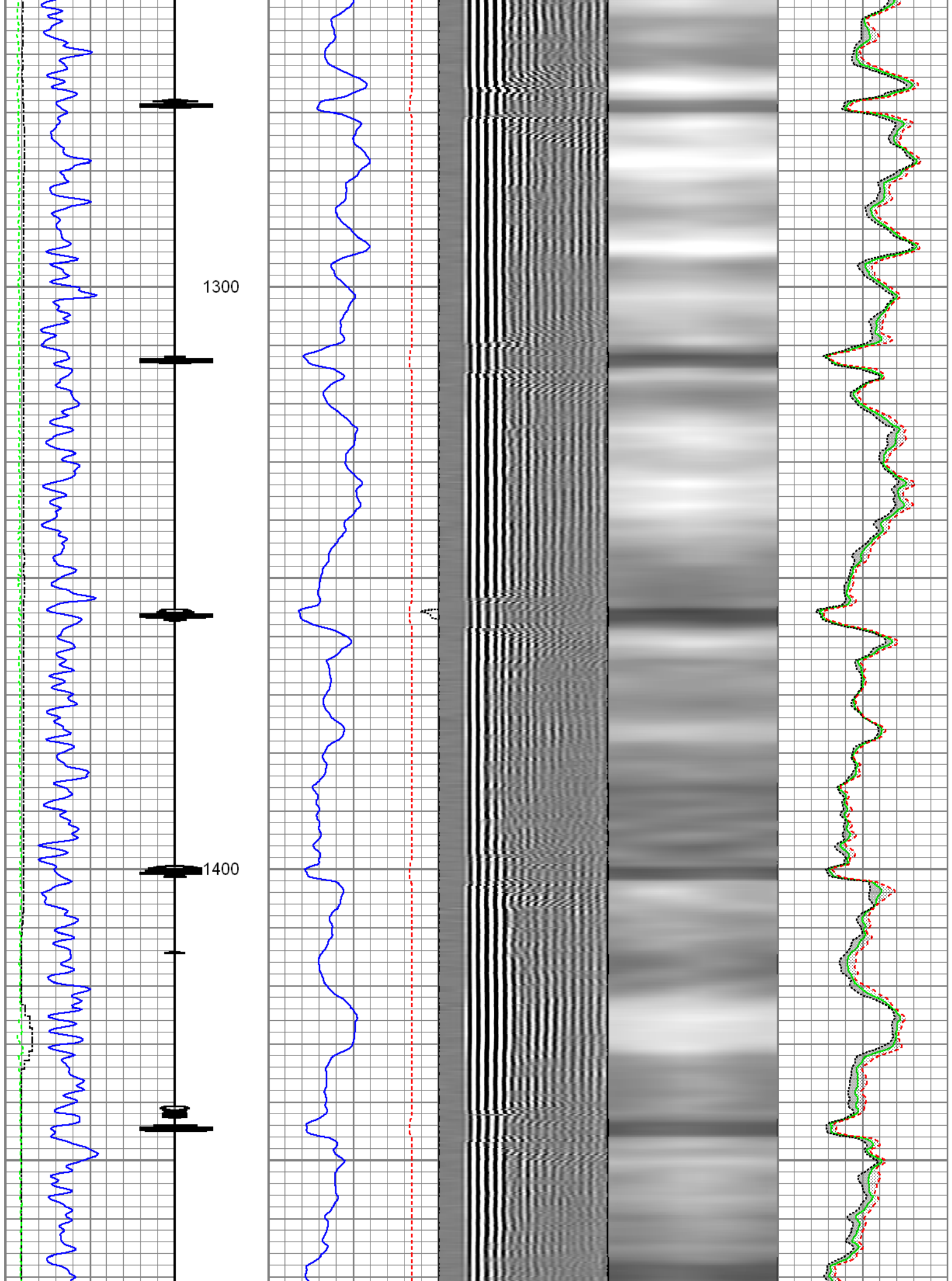


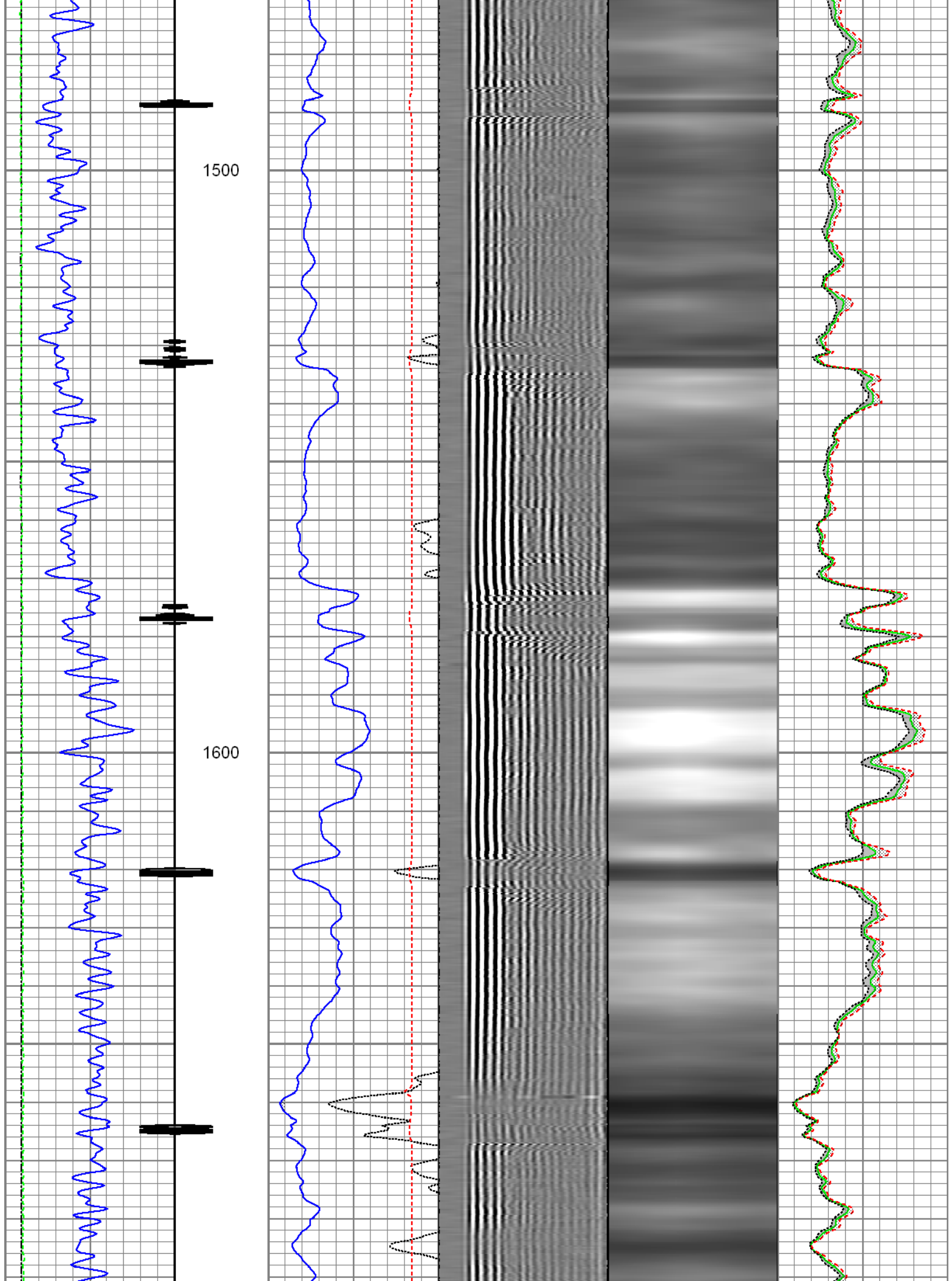


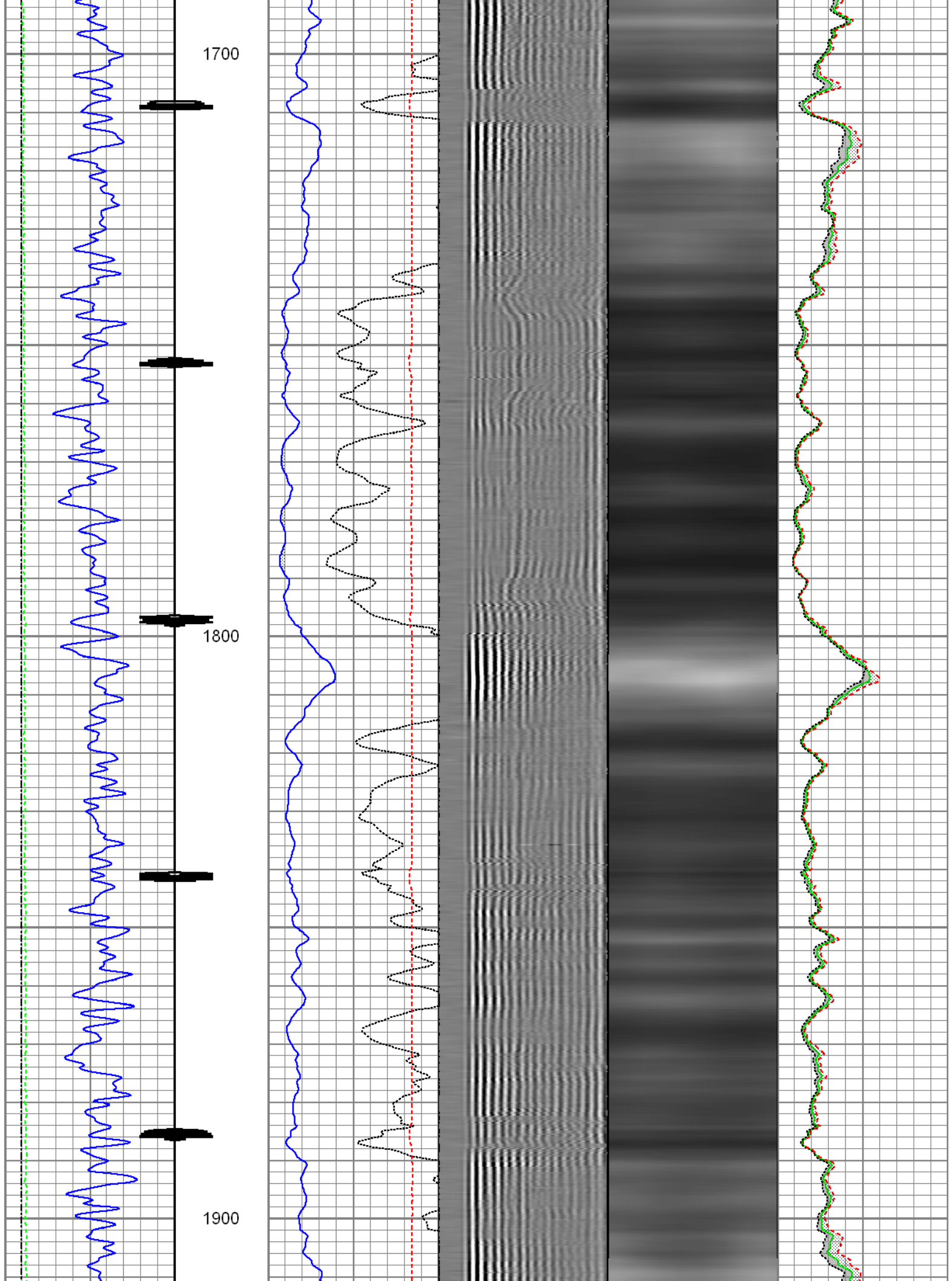


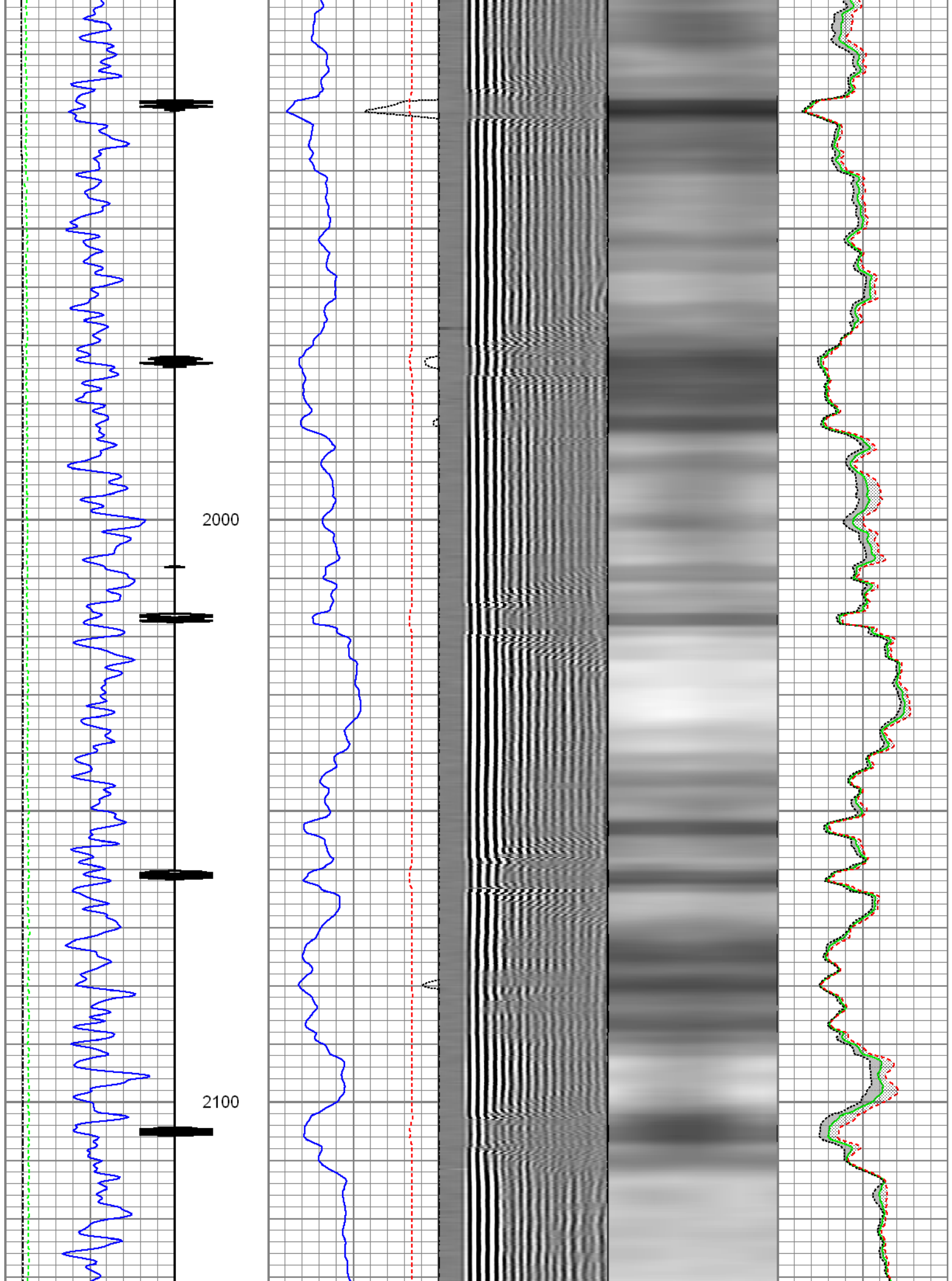


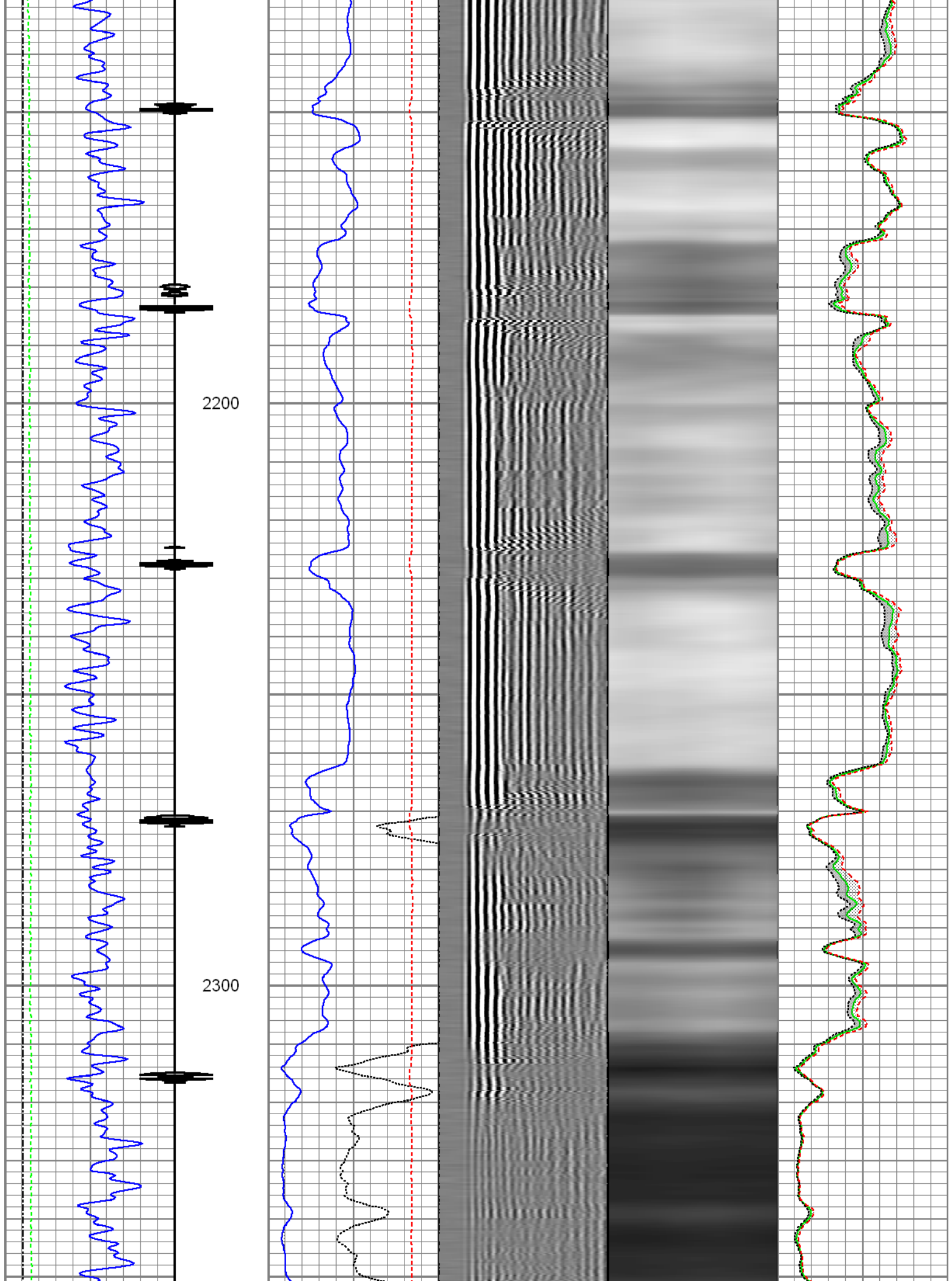


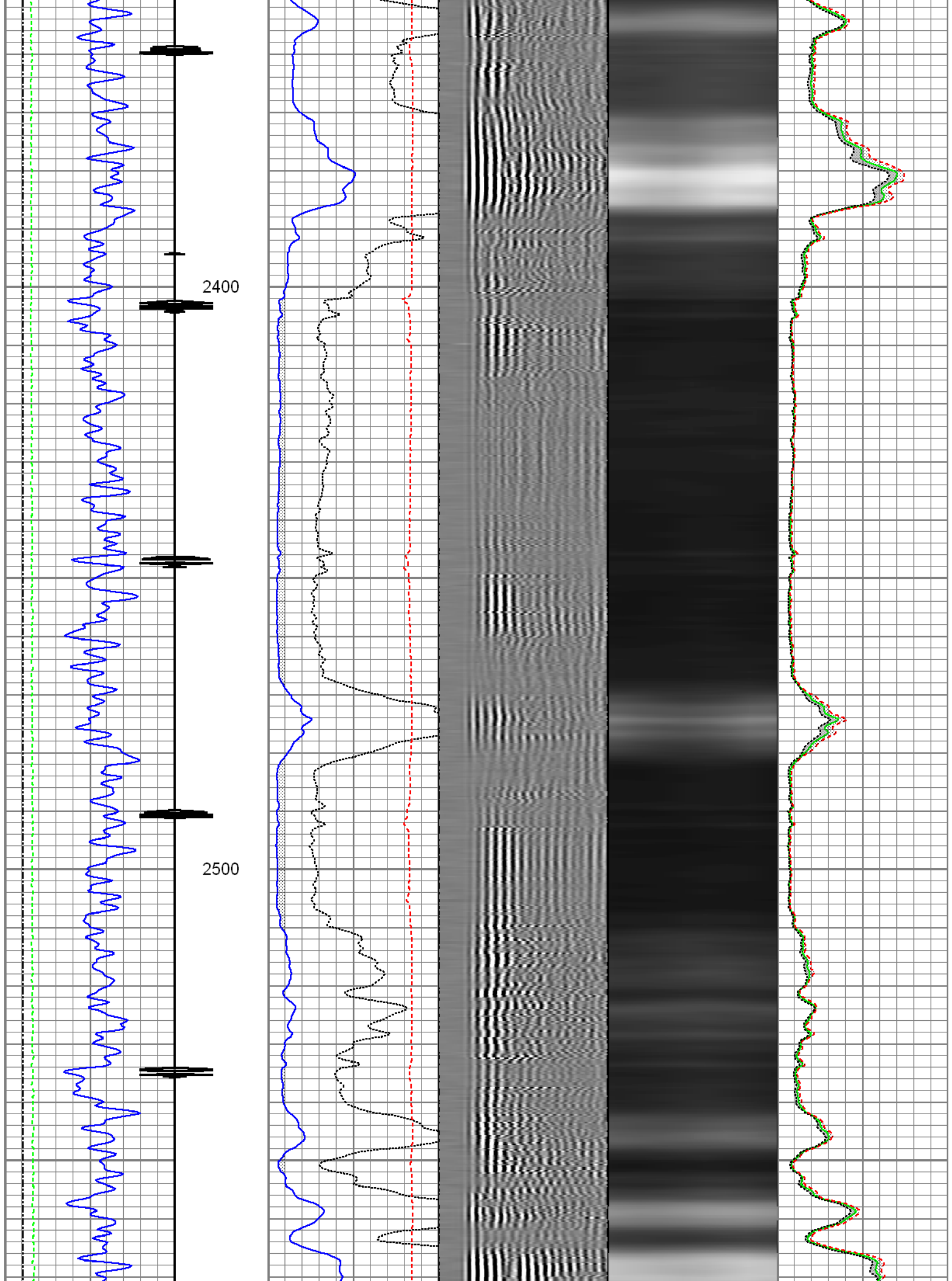


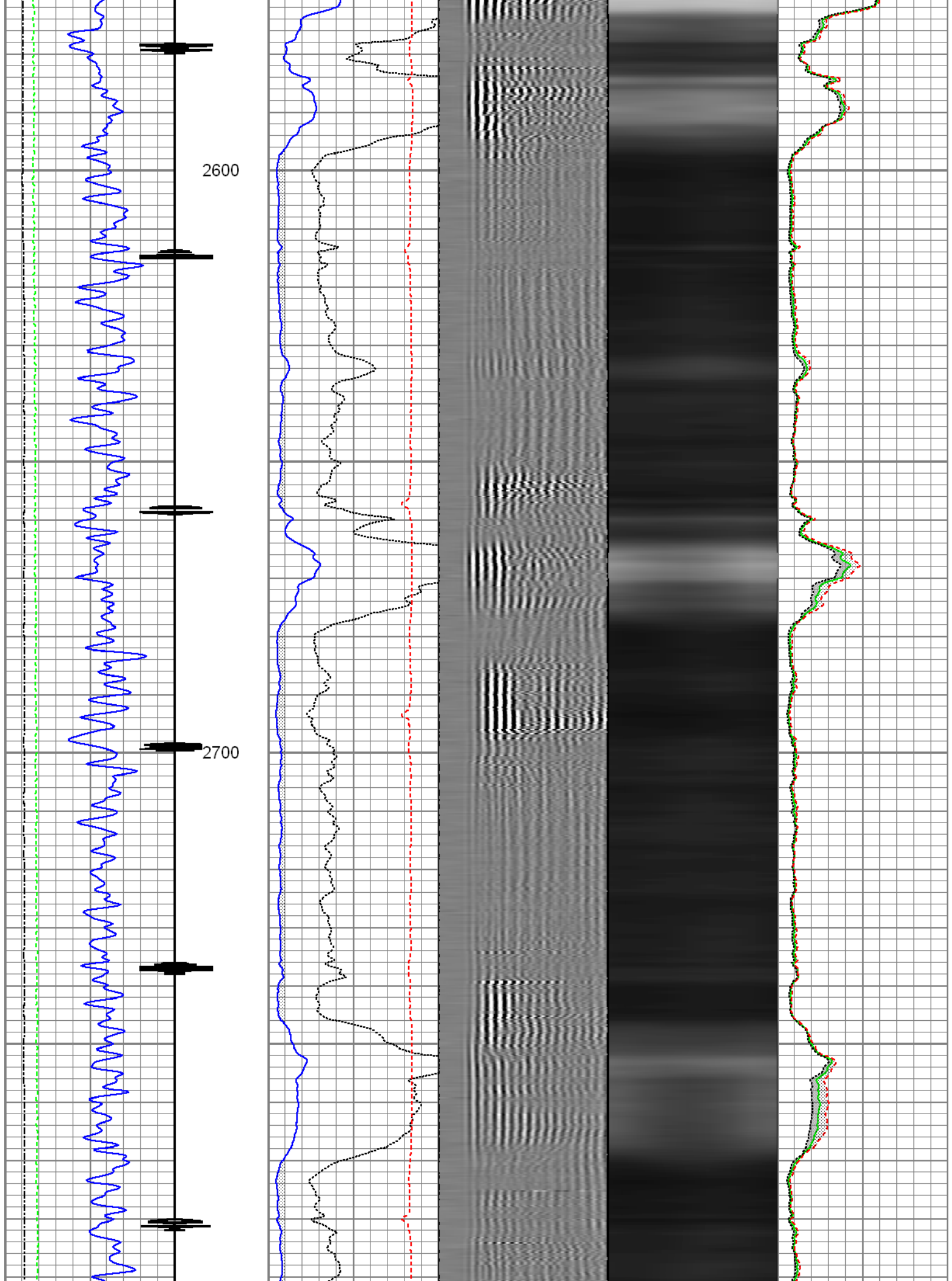


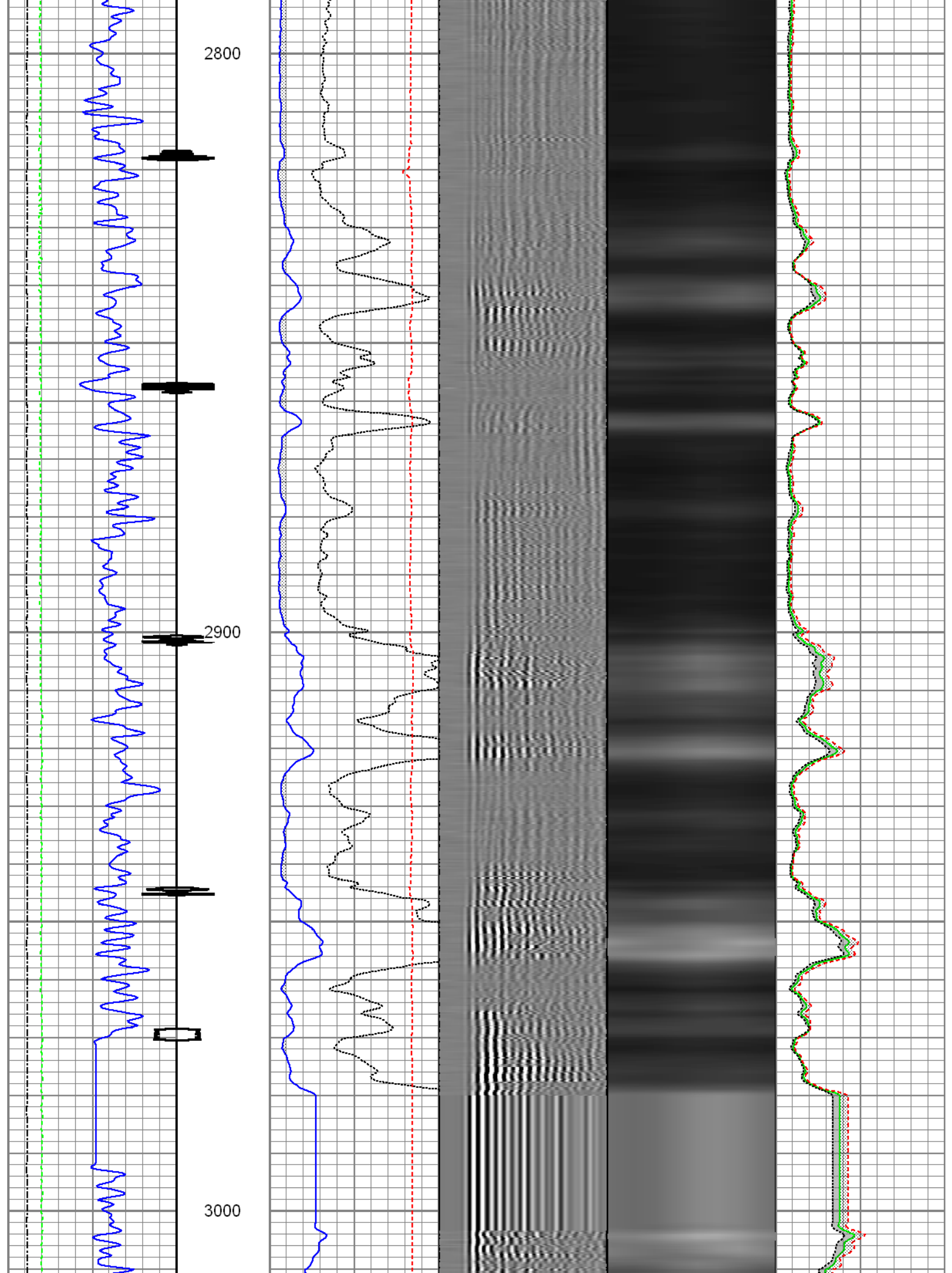


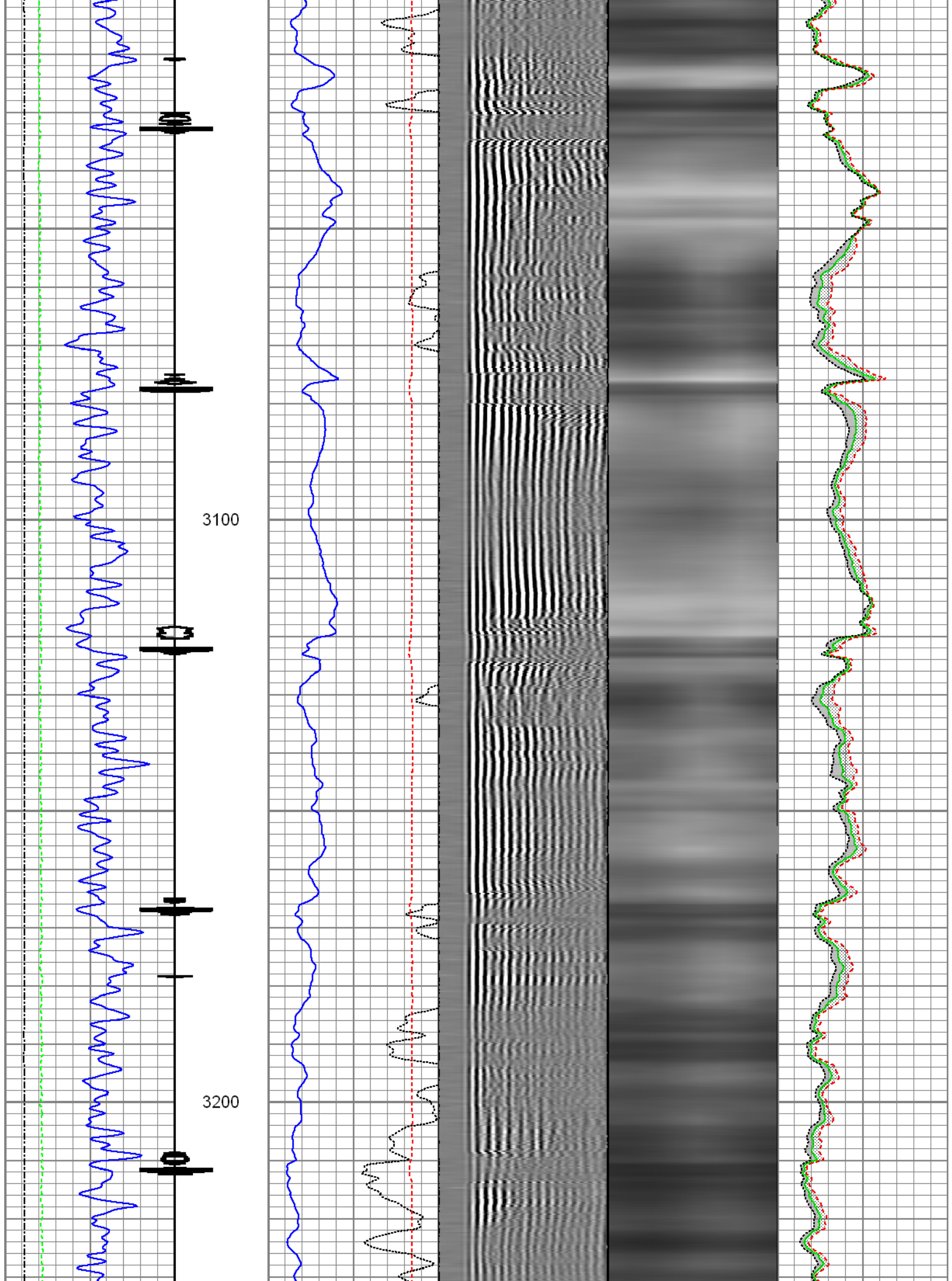


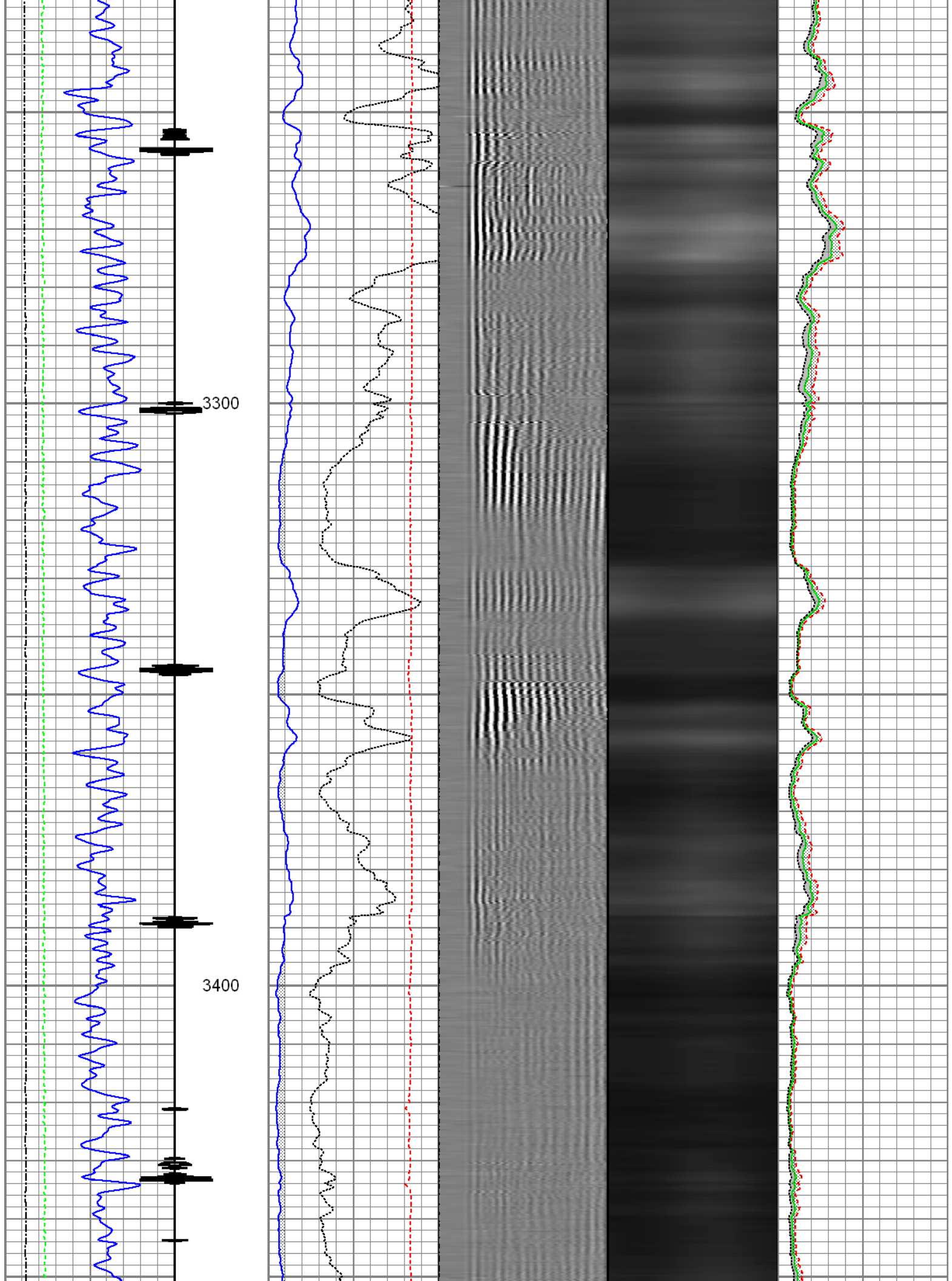


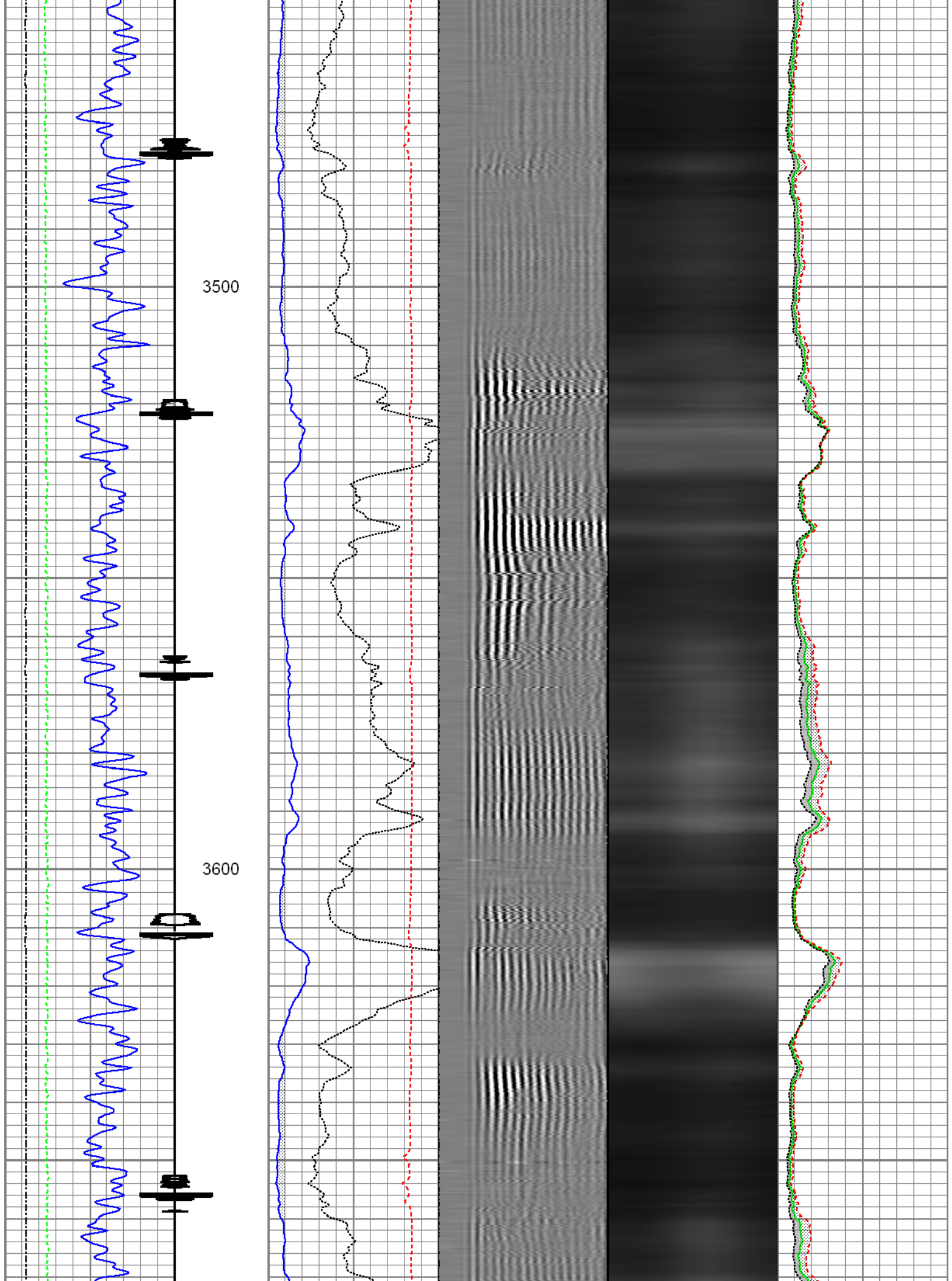


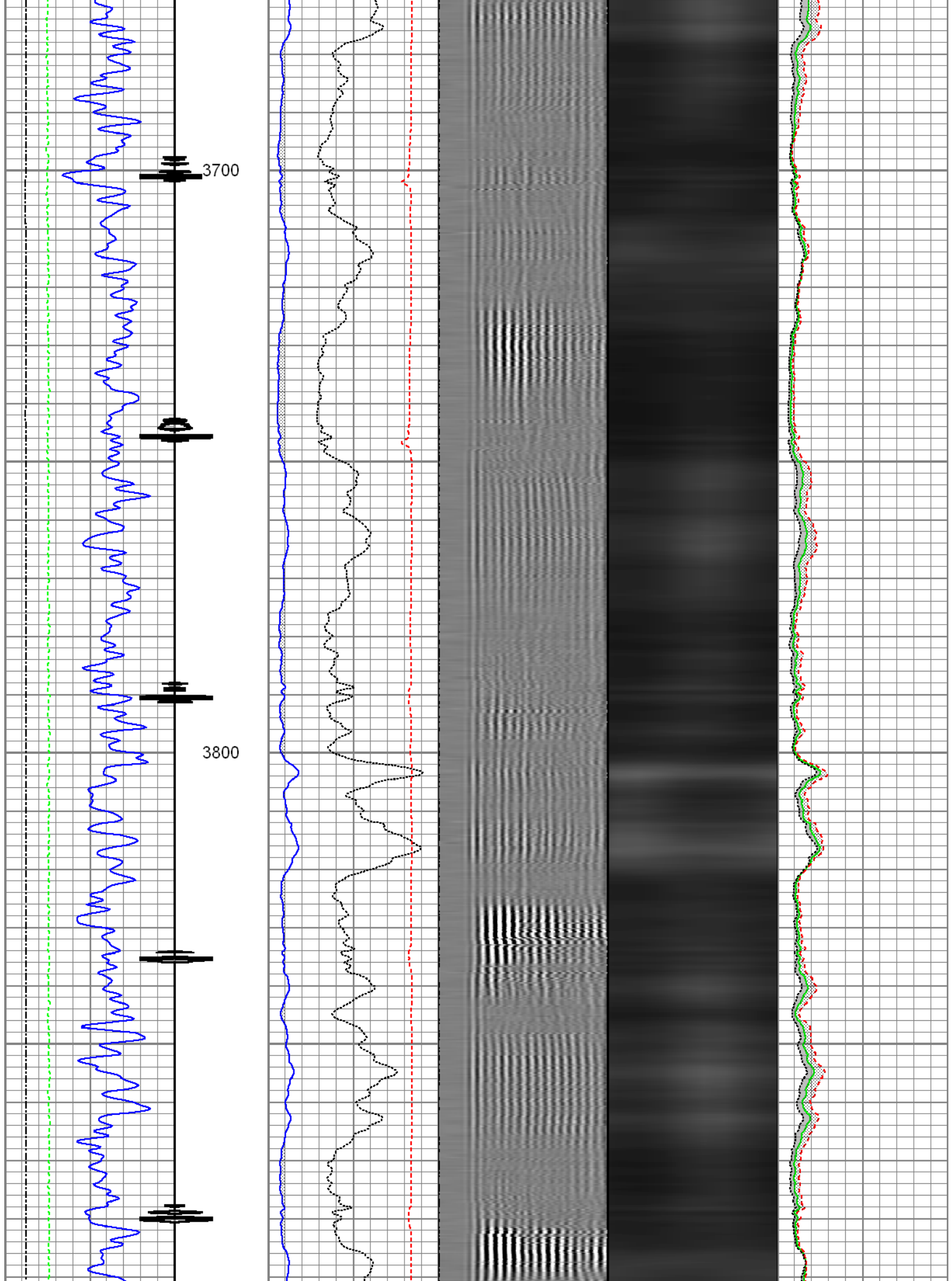


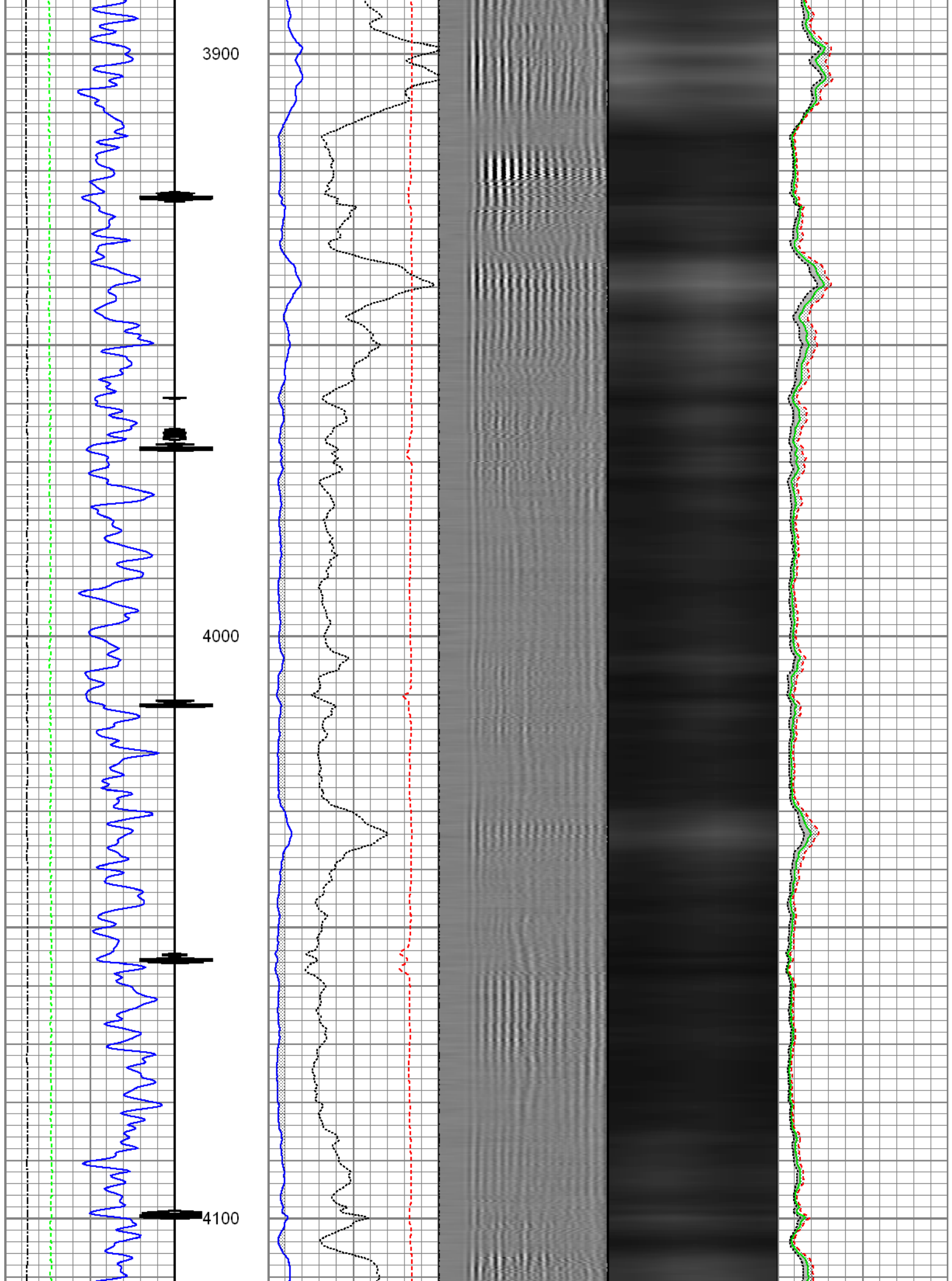


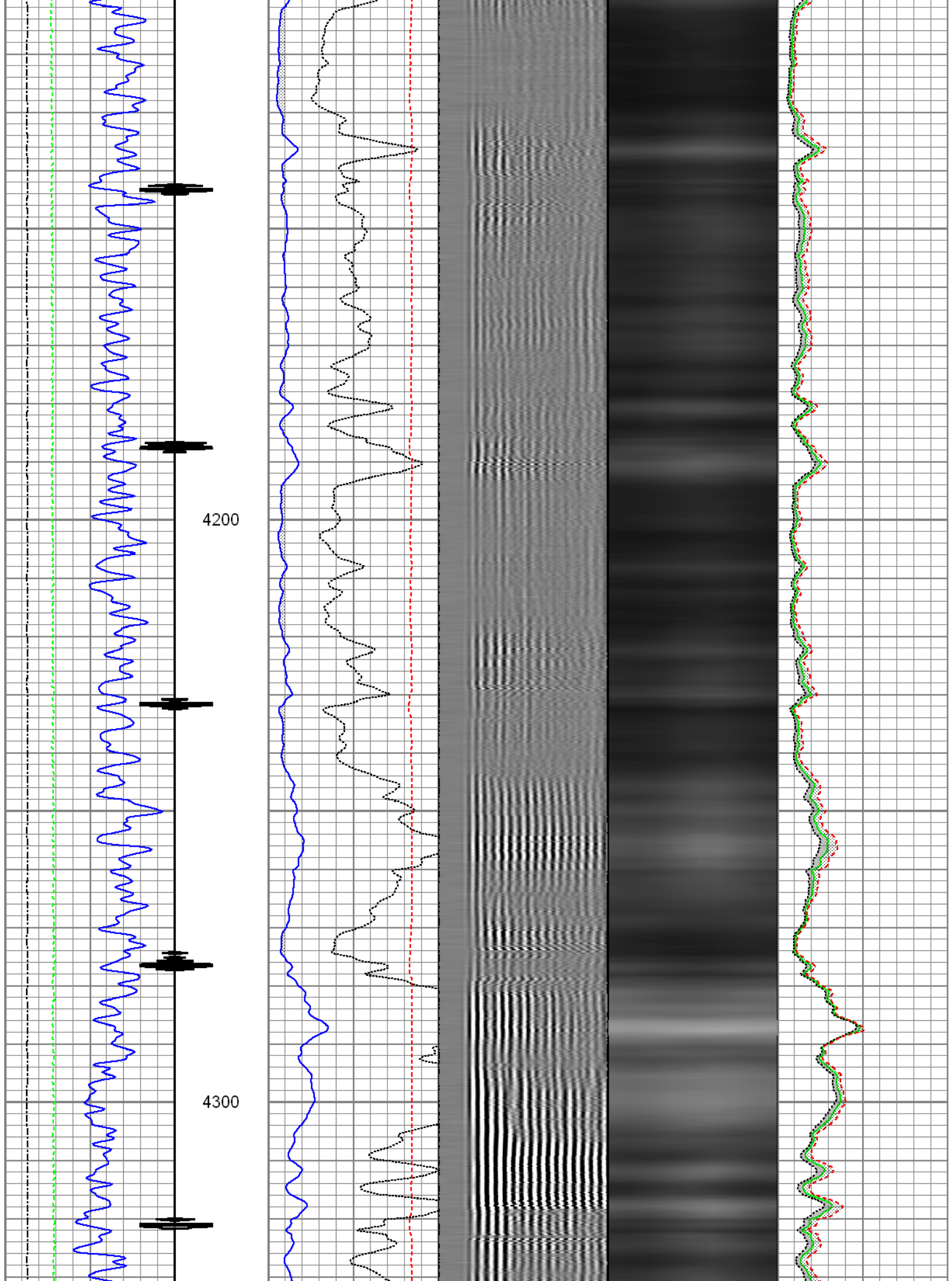


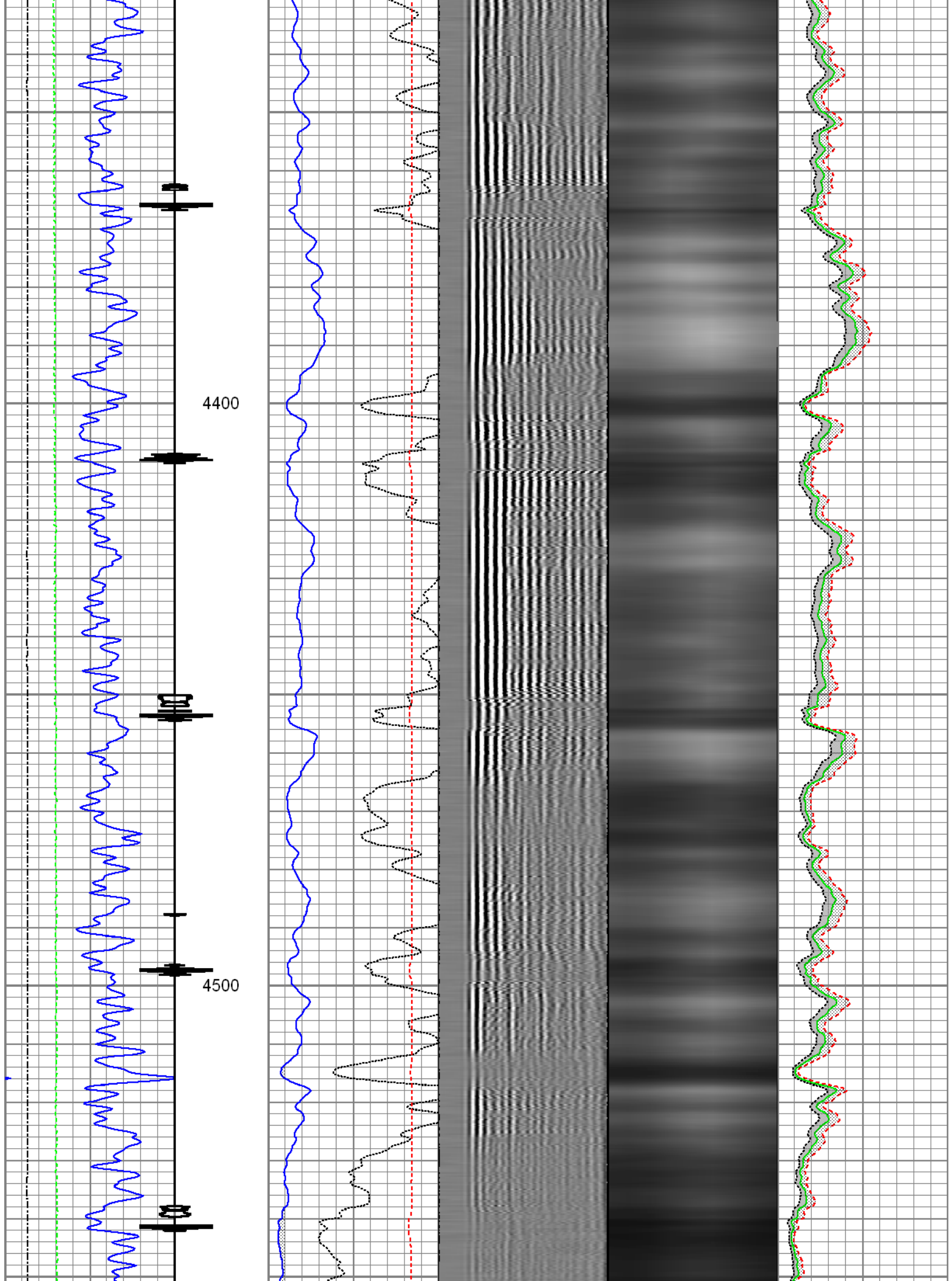


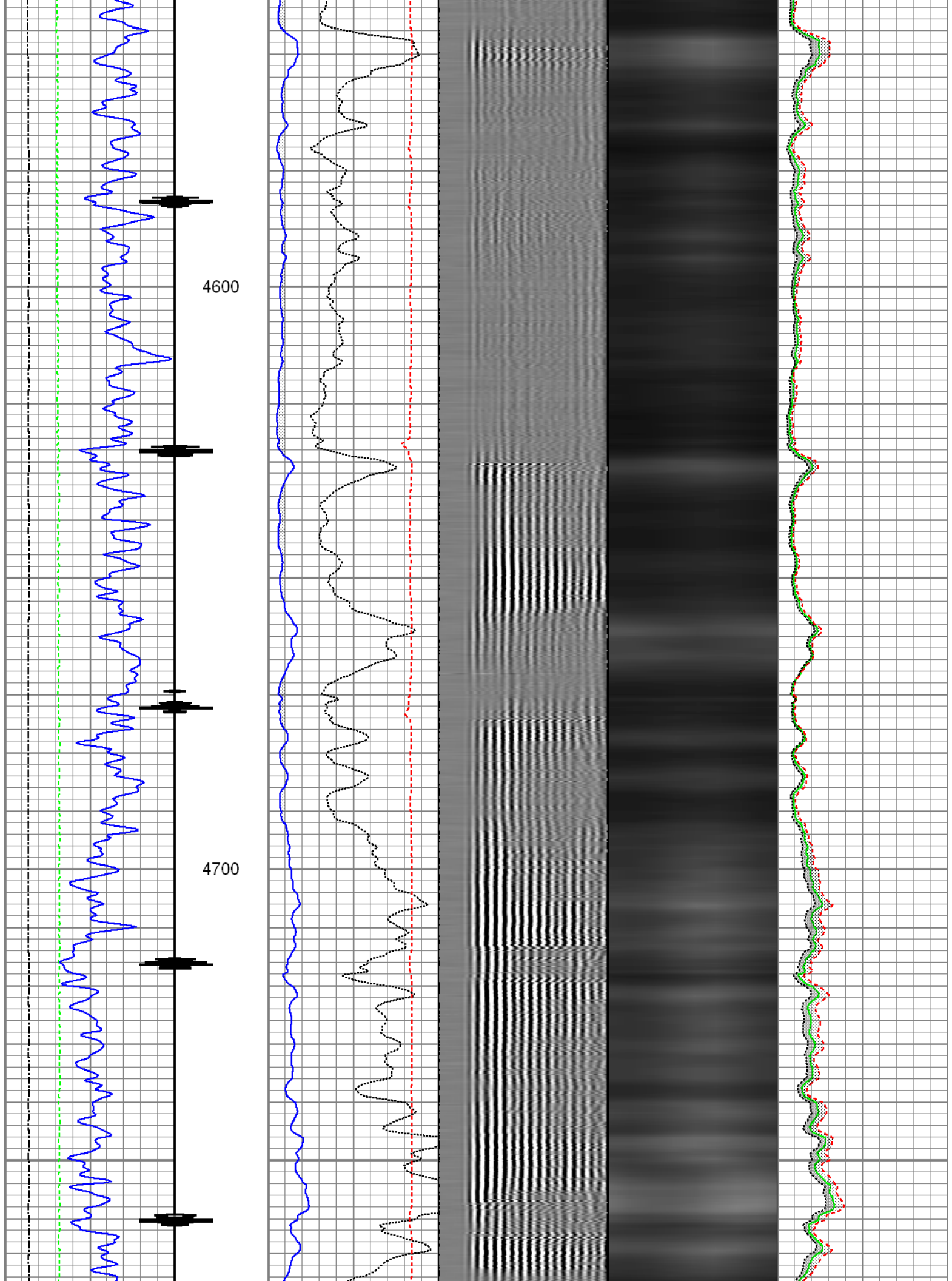


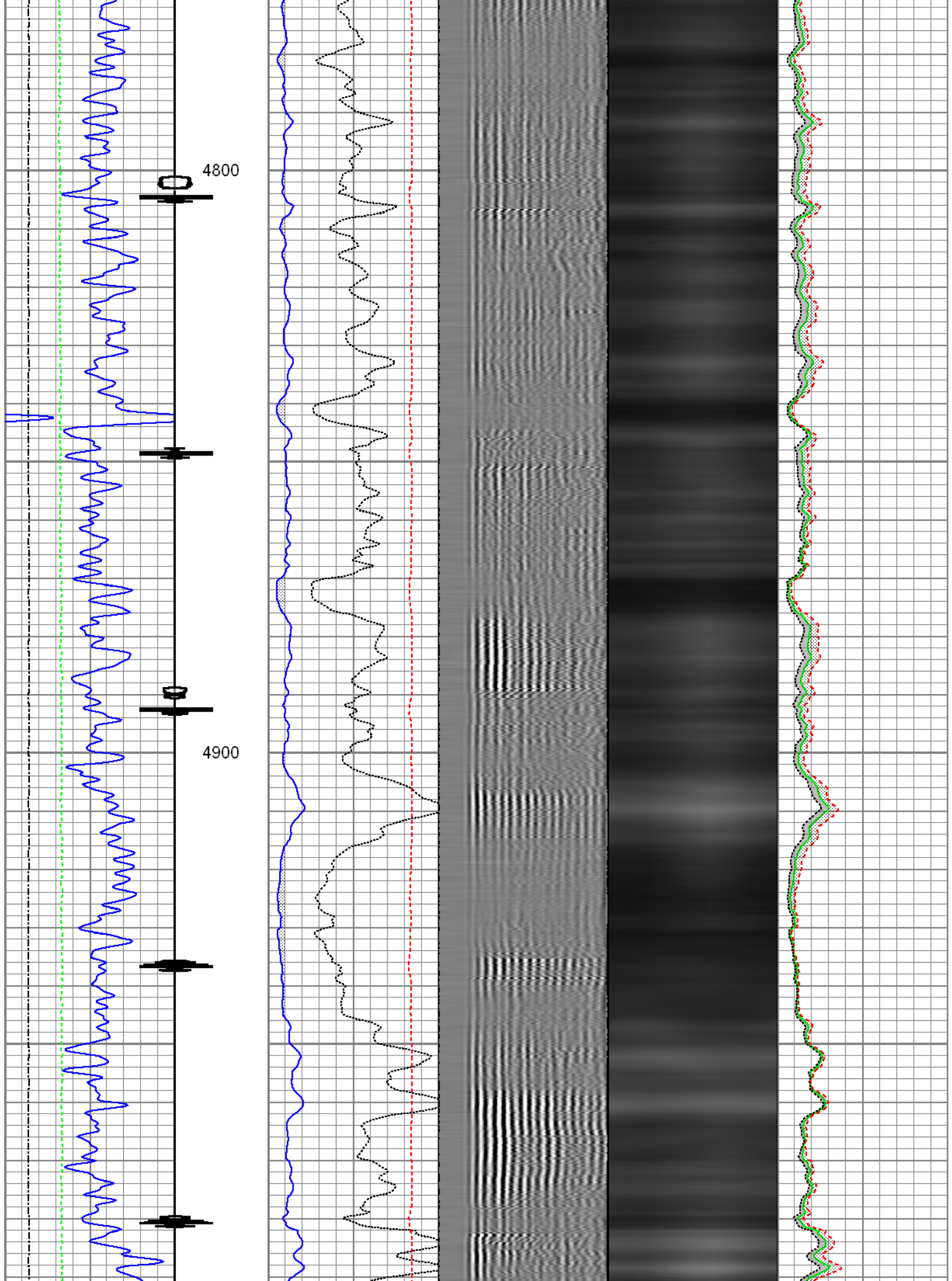


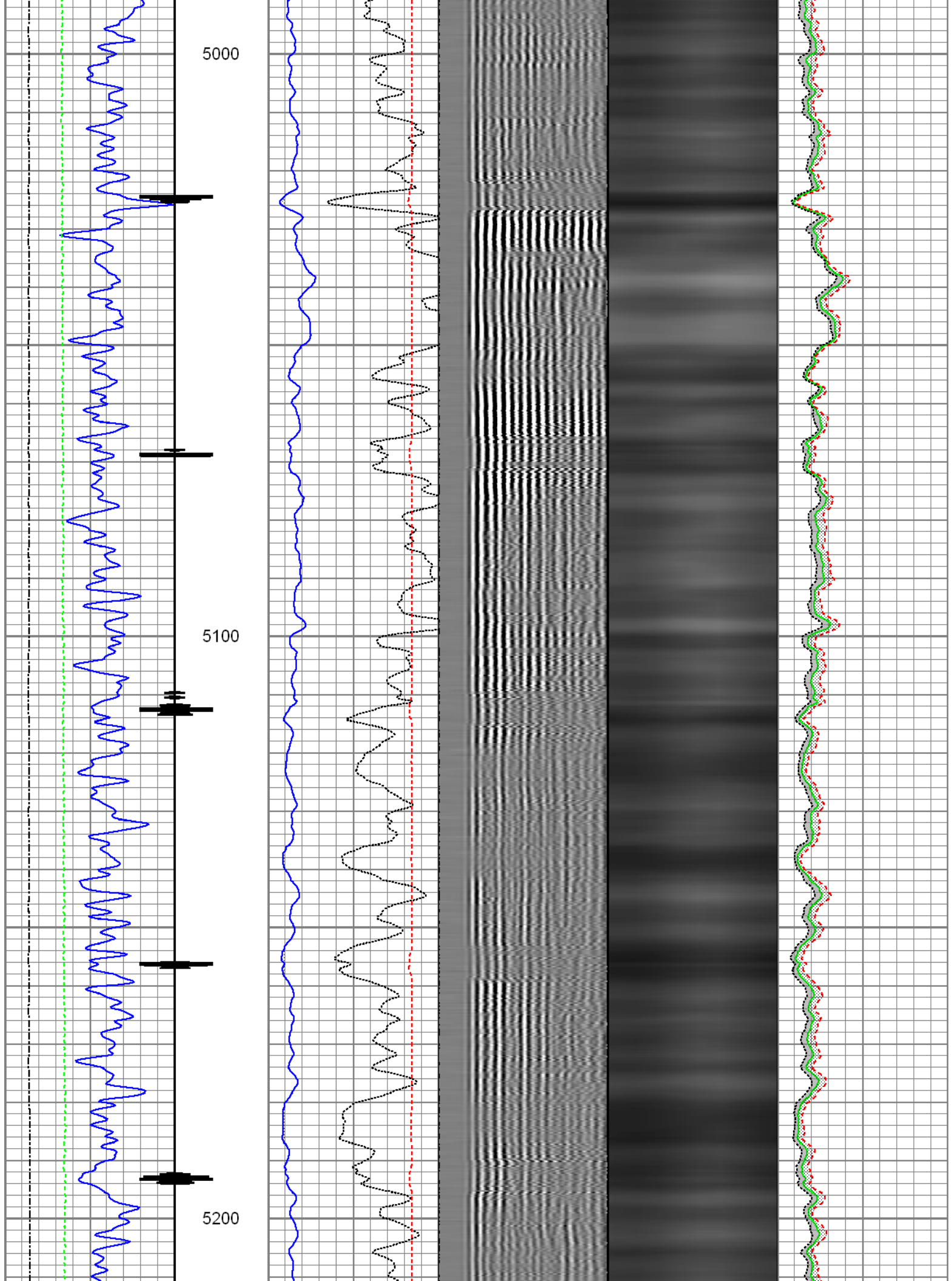


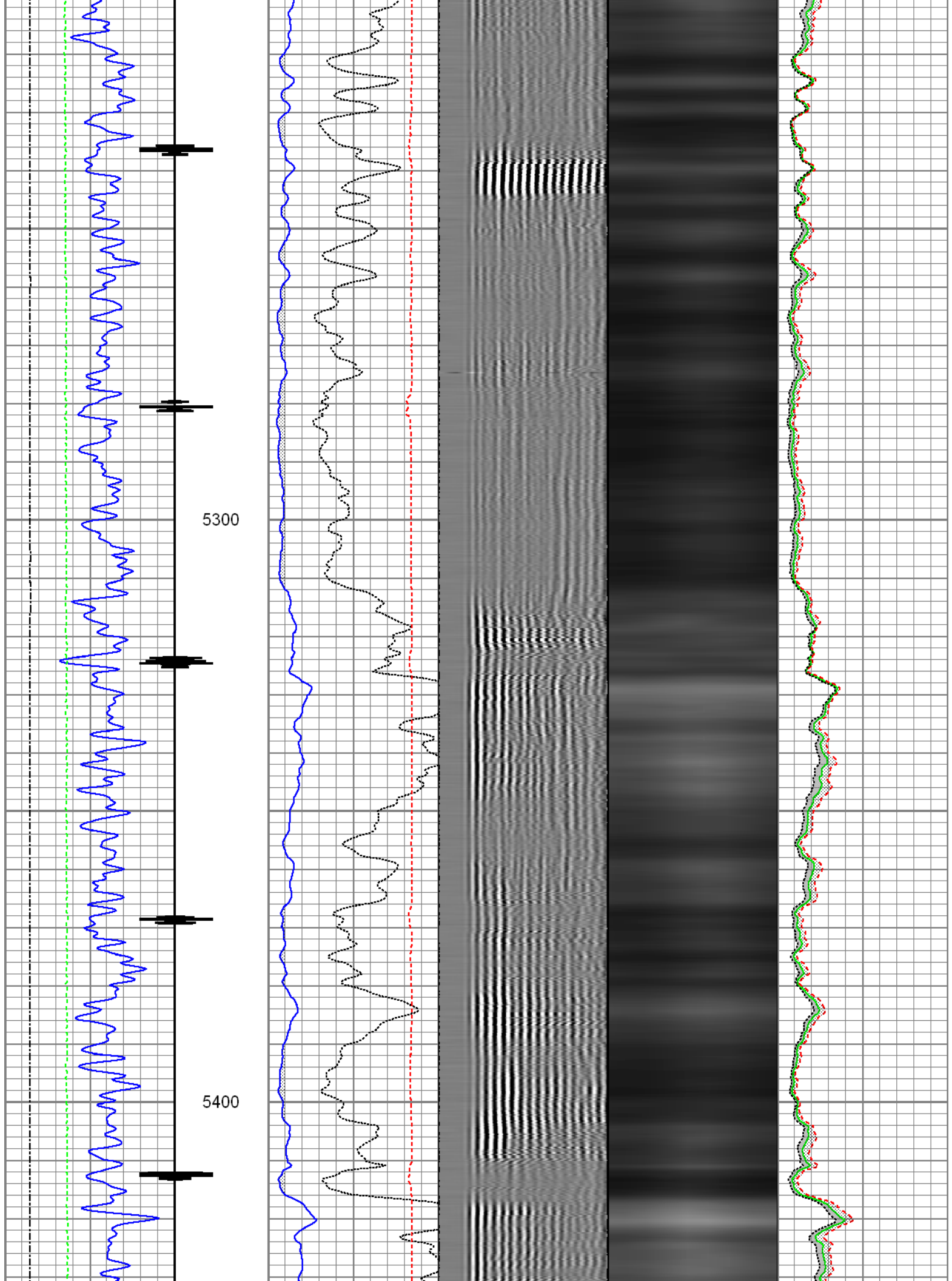


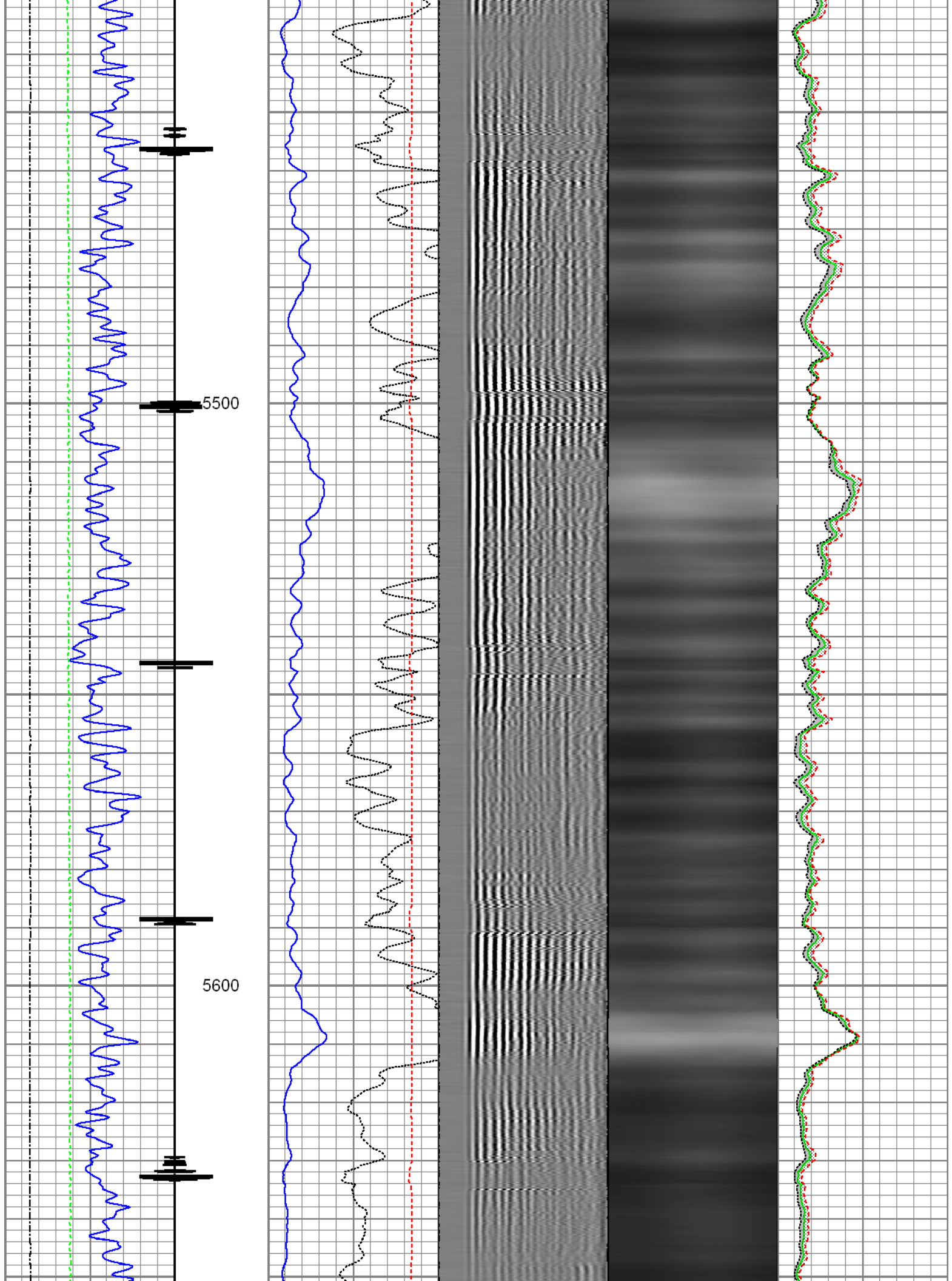


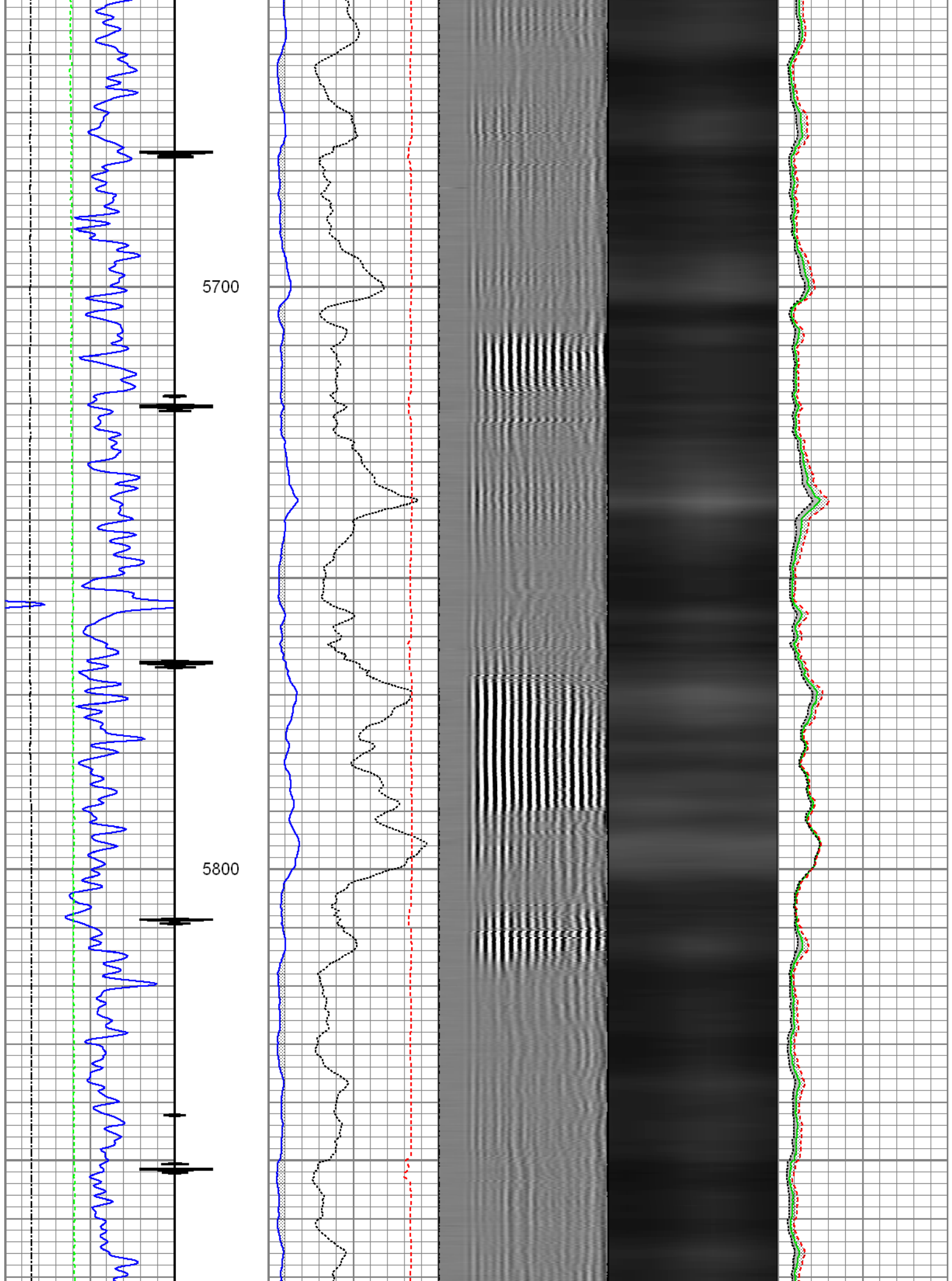


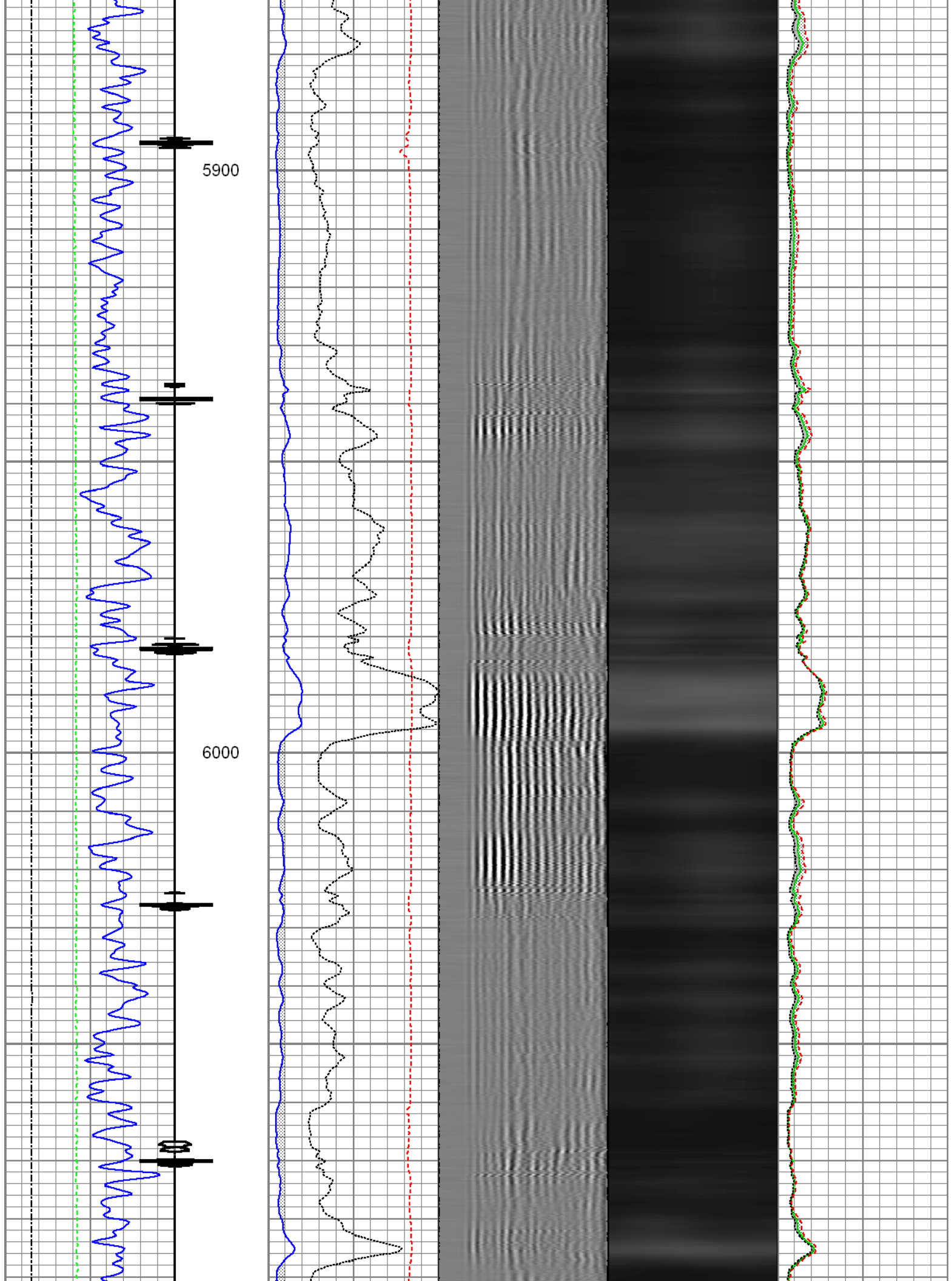


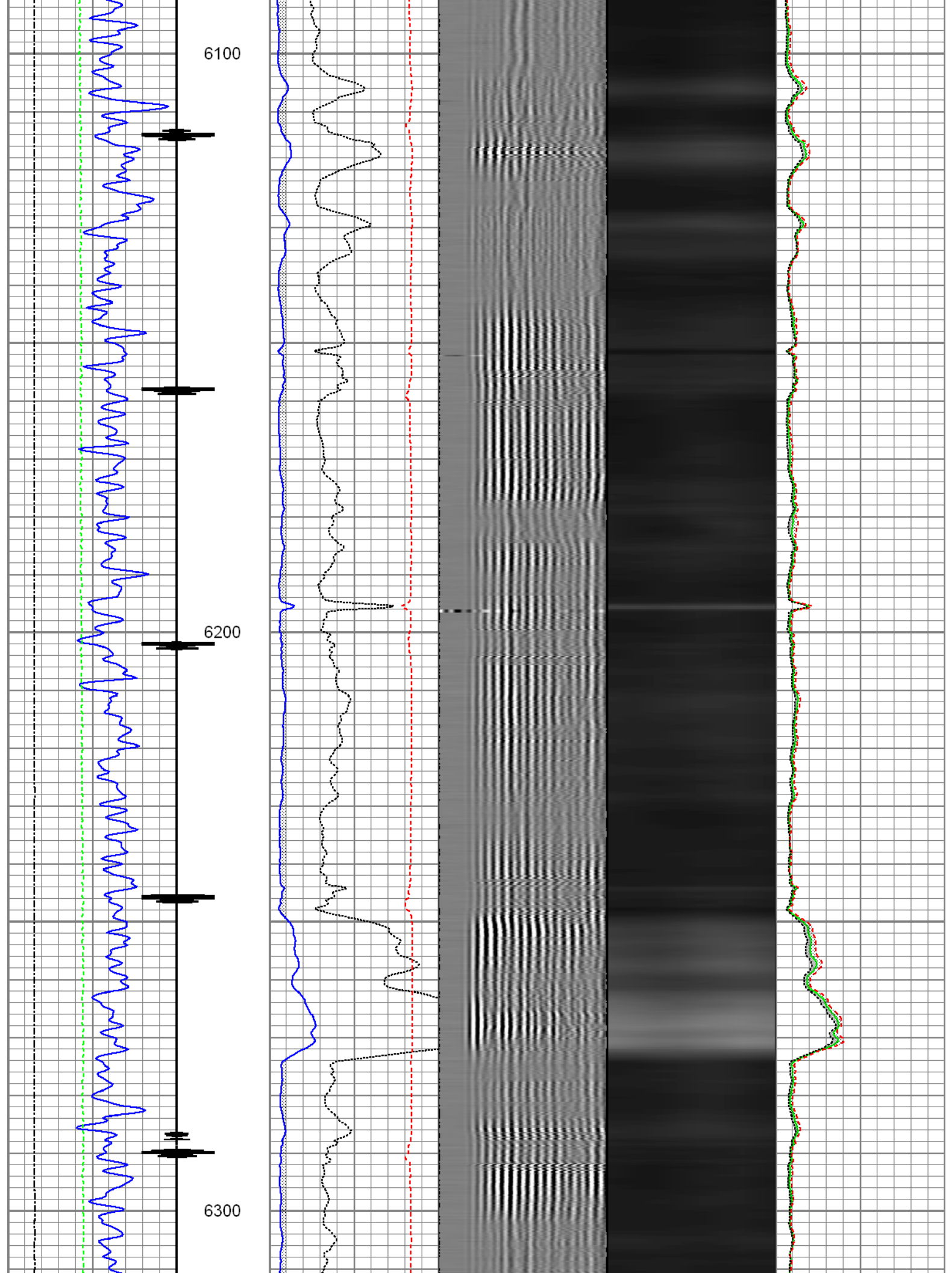


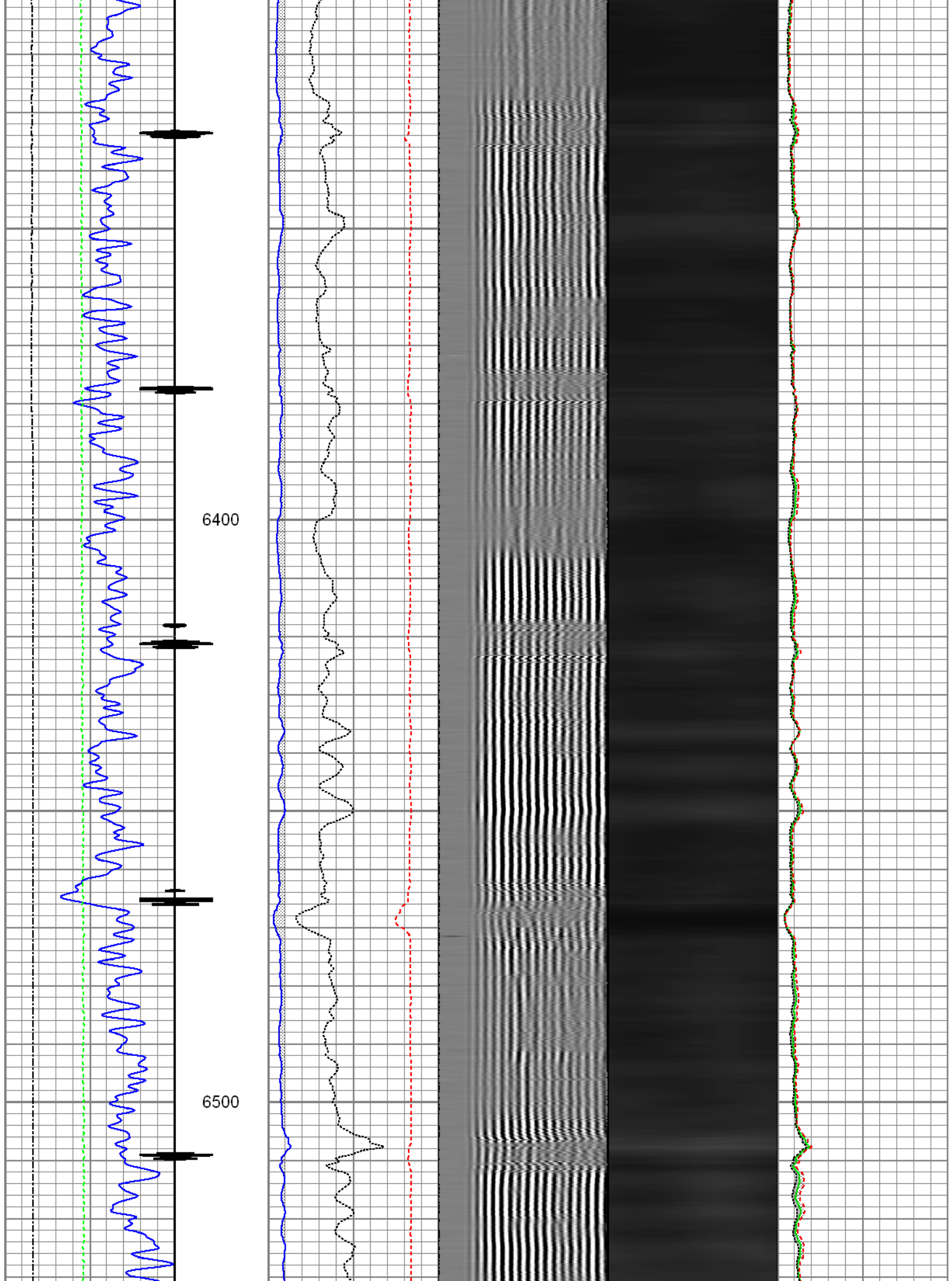


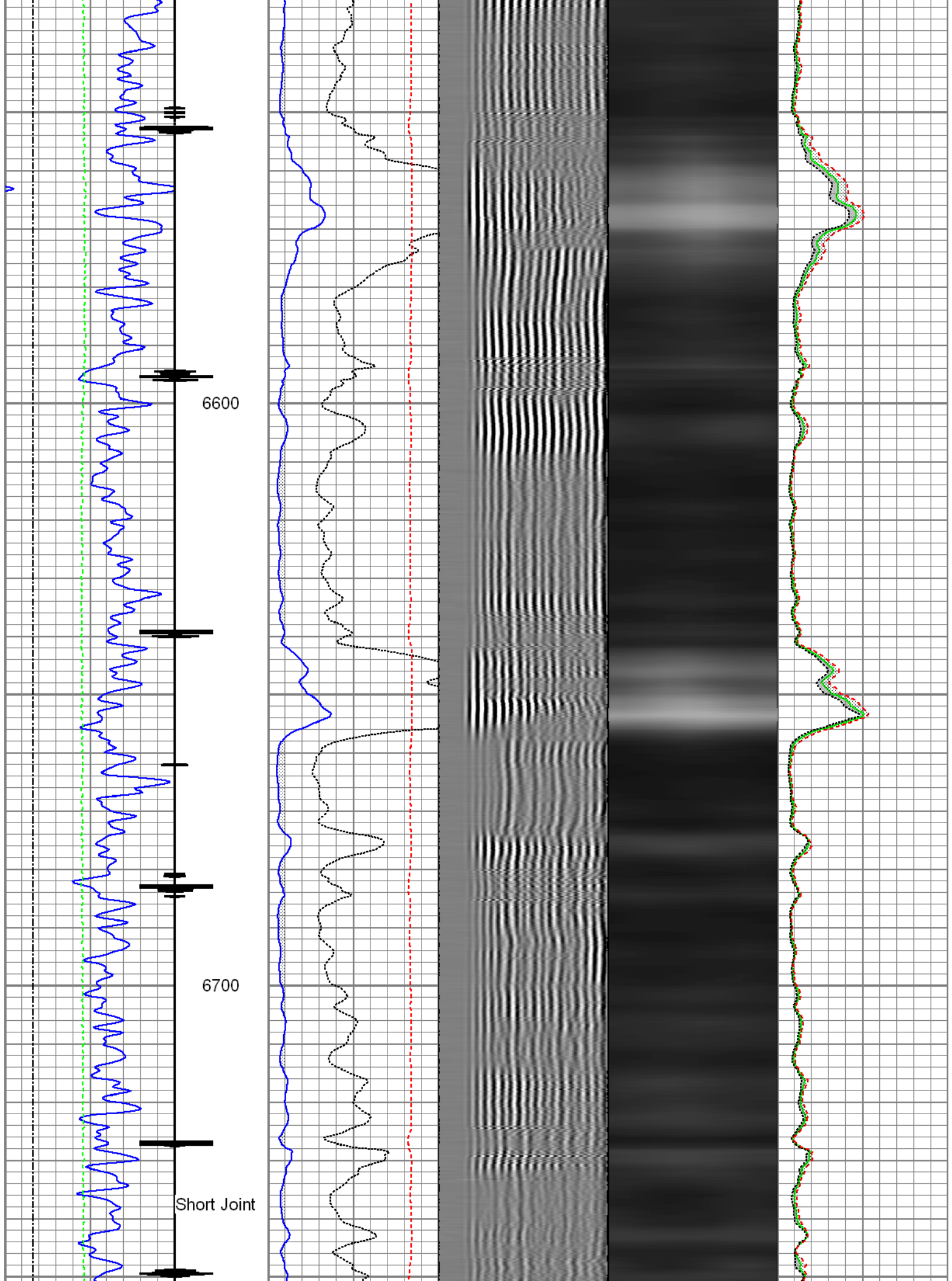


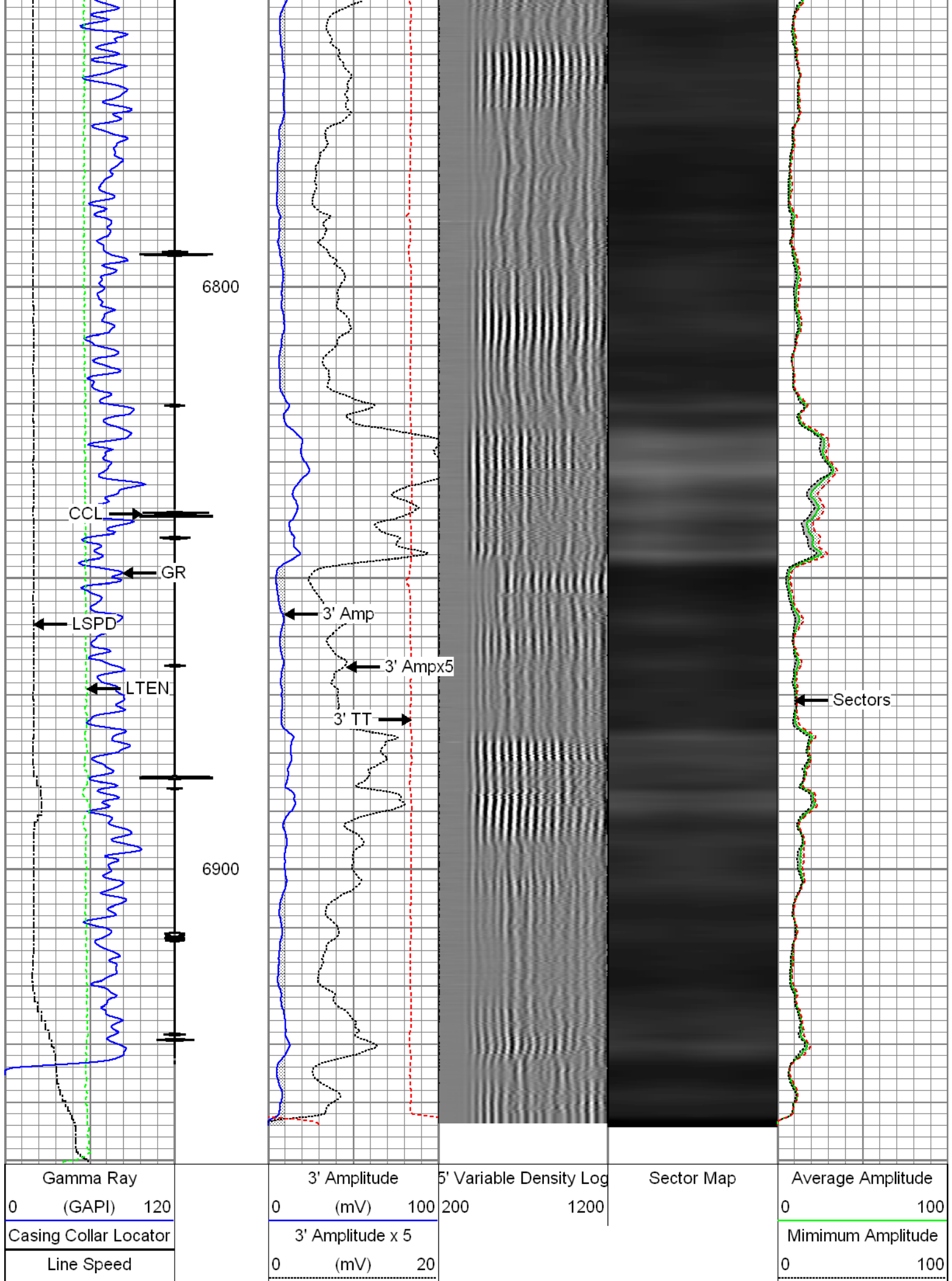












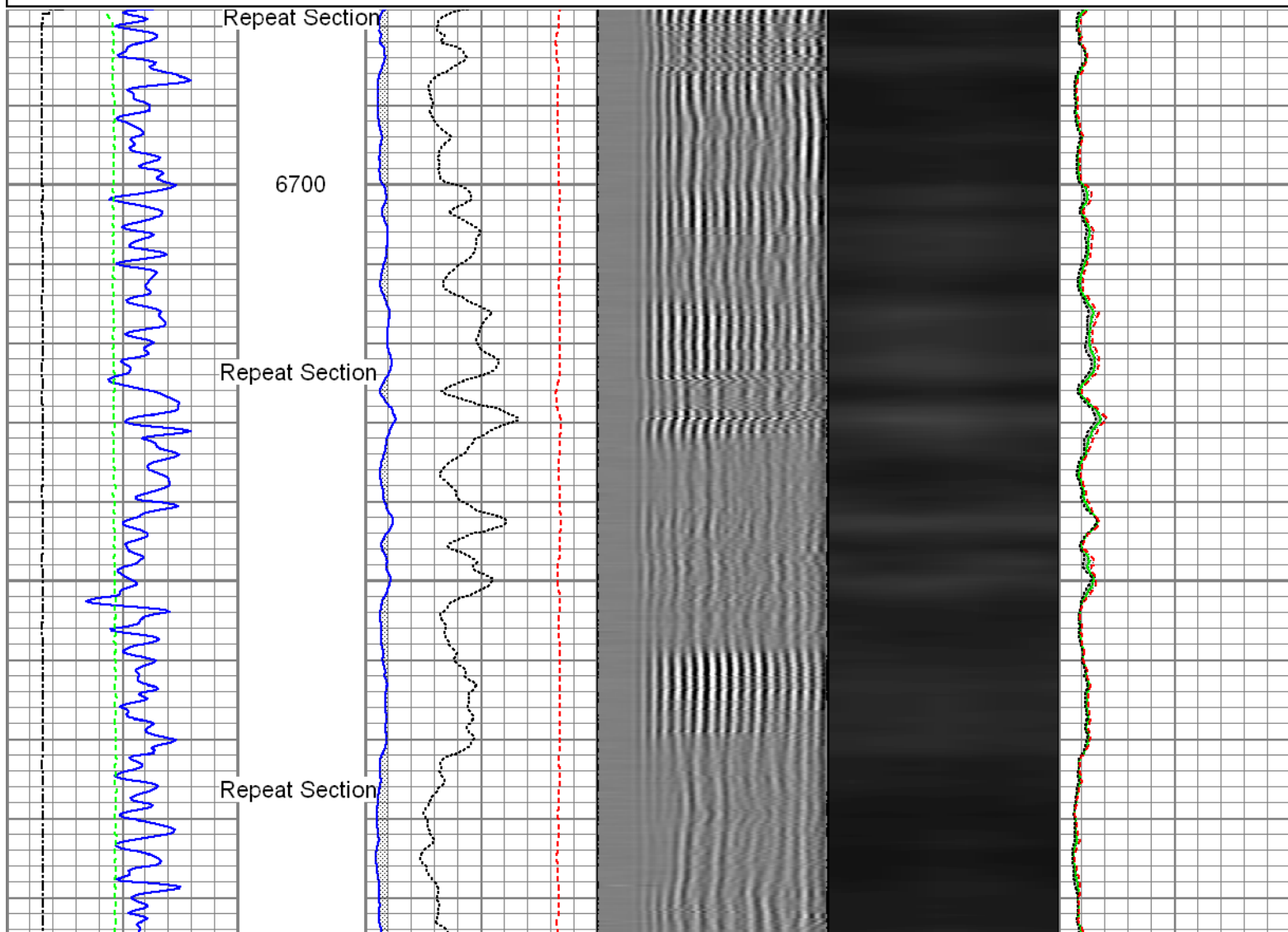
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100

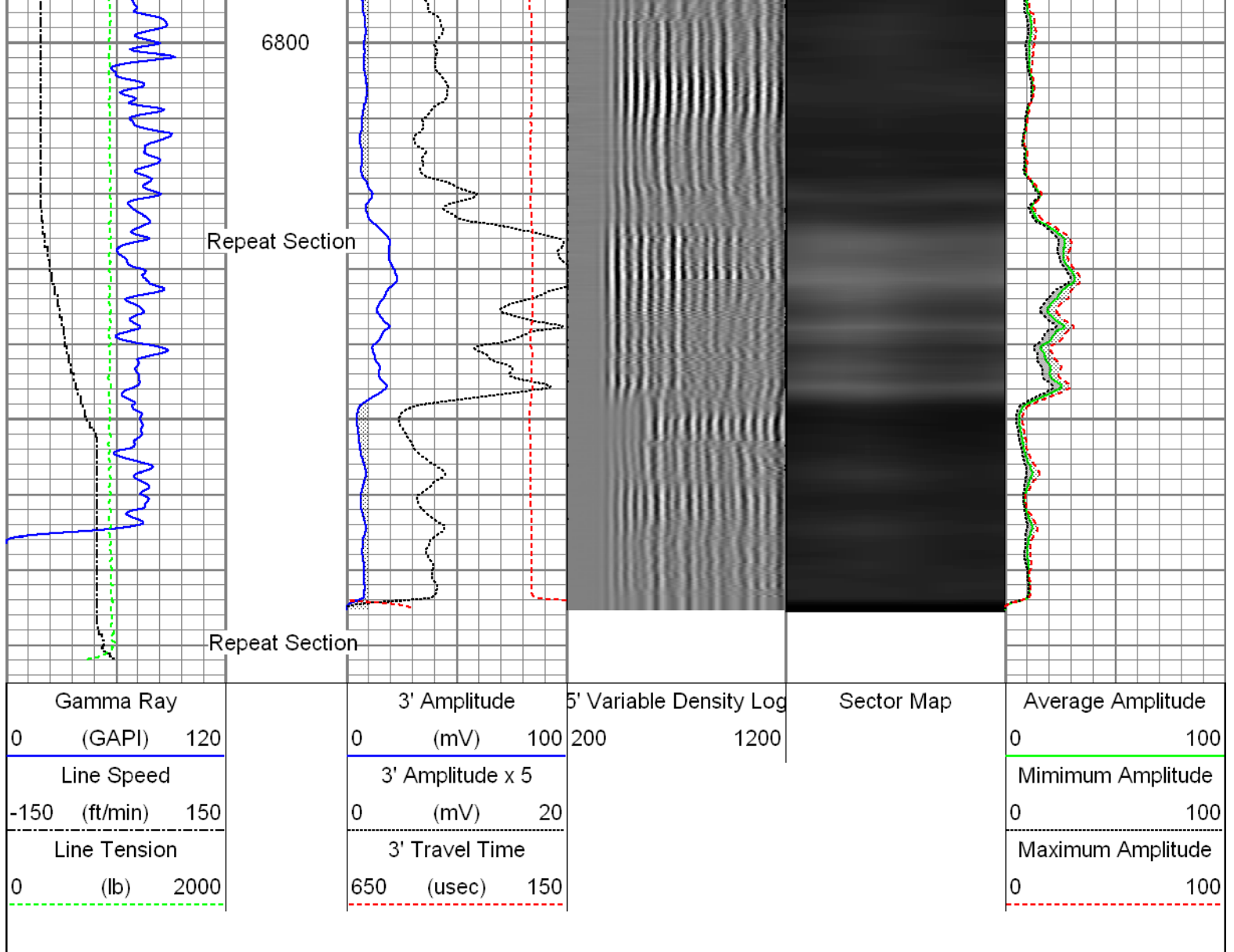
-150 (ft/min) 150	3' Travel Time	Maximum Amplitude
Line Tension	650 (usec) 150	0 100
0 (lb) 2000		

FMC Technologies	Repeat Pass
	Recorded with 2800 PSI Surface Induced Pressure

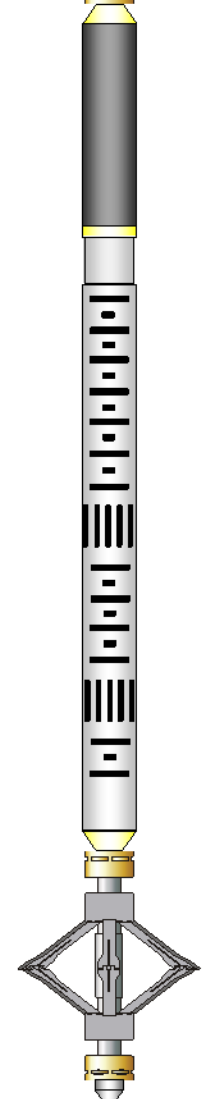
Database File: 0512340839_anadarko_green 1c-8hz_07-28-15_rbl.db
 Dataset Pathname: pass4
 Presentation Format: rbt004
 Dataset Creation: Tue Jul 28 13:37:18 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

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





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	16.90		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			UW_AGS-UW_AGS_001 (215017) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (218874) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10013899) Production Gamma Ray	1.93	1.69	9.50
CCL	15.30		UW_CCL-UW_CCL_028 (10009470) Ultrawire 3-1/8" CCL	1.61	3.13	36.00
			UW_PRC #3 -DSSRAC (082) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00

WVF3FT	7.90		9.47	3.13	140.00
WVFS1	7.90				
WVFS2	7.90				
WVFS3	7.90				
WVFS4	7.90				
WVFS5	7.90				
WVFS6	7.90				
WVFS7	7.90				
WVFS8	7.90				
CBLTEMP	7.90				
CBLROT	7.90				
WVF5FT	6.90				
TSTAMP	0.00	UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
		UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
Dataset: 0512340839_Anadarko_Green 1C-8HZ_07-28-15_RBL.db: field/well/run1/pass6 Total Length: 21.15 ft Total Weight: 262.20 lb O.D.: 3.13 in					

Calibration Report						
Database File:	0512340839_Anadarko_Green 1C-8HZ_07-28-15_RBL.db					
Dataset Pathname:	pass6					
Dataset Creation:	Tue Jul 28 13:45:14 2015 by Log 7.0 B1					
Segmented Cement Bond Log Calibration Report						
Serial Number:		10013454				
Tool Model:		UW_RBT_004				
Calibration Casing Diameter:		5.500	in			
Calibration Depth:		56.738	ft			
Master Calibration, performed Tue Jul 28 13:00:43 2015:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.005	0.867	0.000	71.921	83.421	-0.389
5FT	-0.001	0.868	0.000	71.921	82.771	0.101
S1	0.005	0.848	0.000	100.000	118.579	-0.551
S2	0.001	0.891	0.000	100.000	112.441	-0.151
S3	0.000	0.890	0.000	100.000	109.700	-0.007

S3	0.003	0.922	0.000	100.000	108.789	-0.337
S4	0.002	0.929	0.000	100.000	107.889	-0.242
S5	0.004	0.899	0.000	100.000	111.731	-0.409
S6	0.002	0.864	0.000	100.000	116.016	-0.283
S7	0.002	0.822	0.000	100.000	122.054	-0.298
S8	0.003	0.821	0.000	100.000	122.260	-0.342

Gamma Ray Calibration Report						
Serial Number:	10013899					
Tool Model:	UW_PGR_020					
Performed:	Sun Jun 13 13:33:21 1993					
Calibrator Value:	1.0	GAPI				
Background Reading:	0.0	cps				
Calibrator Reading:	1.0	cps				
Sensitivity:	1.0000	GAPI/cps				

	Company	Kerr-McGee Oil and Gas Onshore LP
	Well	Green 1C-8HZ
	Field	Wattenberg
	County	Weld
	State	Colorado