



Radial Cement Bond  
Gamma Ray  
Casing Collar Log

Company	Kerr-McGee Oil and Gas Onshore LP		
Well	Green 2N-8HZ		
Field	Wattenberg		
County	Weld		
State	Colorado		
Location:	Company	Kerr-McGee Oil and Gas Onshore LP	
	Well	Green 2N-8HZ	
	Field	Wattenberg	
Location:	County	Weld	State Colorado
	API # : 05-123-40835		
	Other Services Gauge Ring		
Permanent Datum	SEC 8	TWP 1N	RGE 65W
Log Measured From	Ground Level	Kelly Bushing	Elevation 4972'
Drilling Measured From	Kelly Bushing	16 FT	Elevation K.B. 4988' D.F. 4987' G.L. 4972'

Date	28-JUL-2015
Run Number	Two
Depth Driller	13450 FT
Depth Logger	6769 FT
Bottom Logged Interval	6762 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	Surface
Time Well Ready	ROA
Time Logger on Bottom	4:30 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	1556 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	13450 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

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.!!

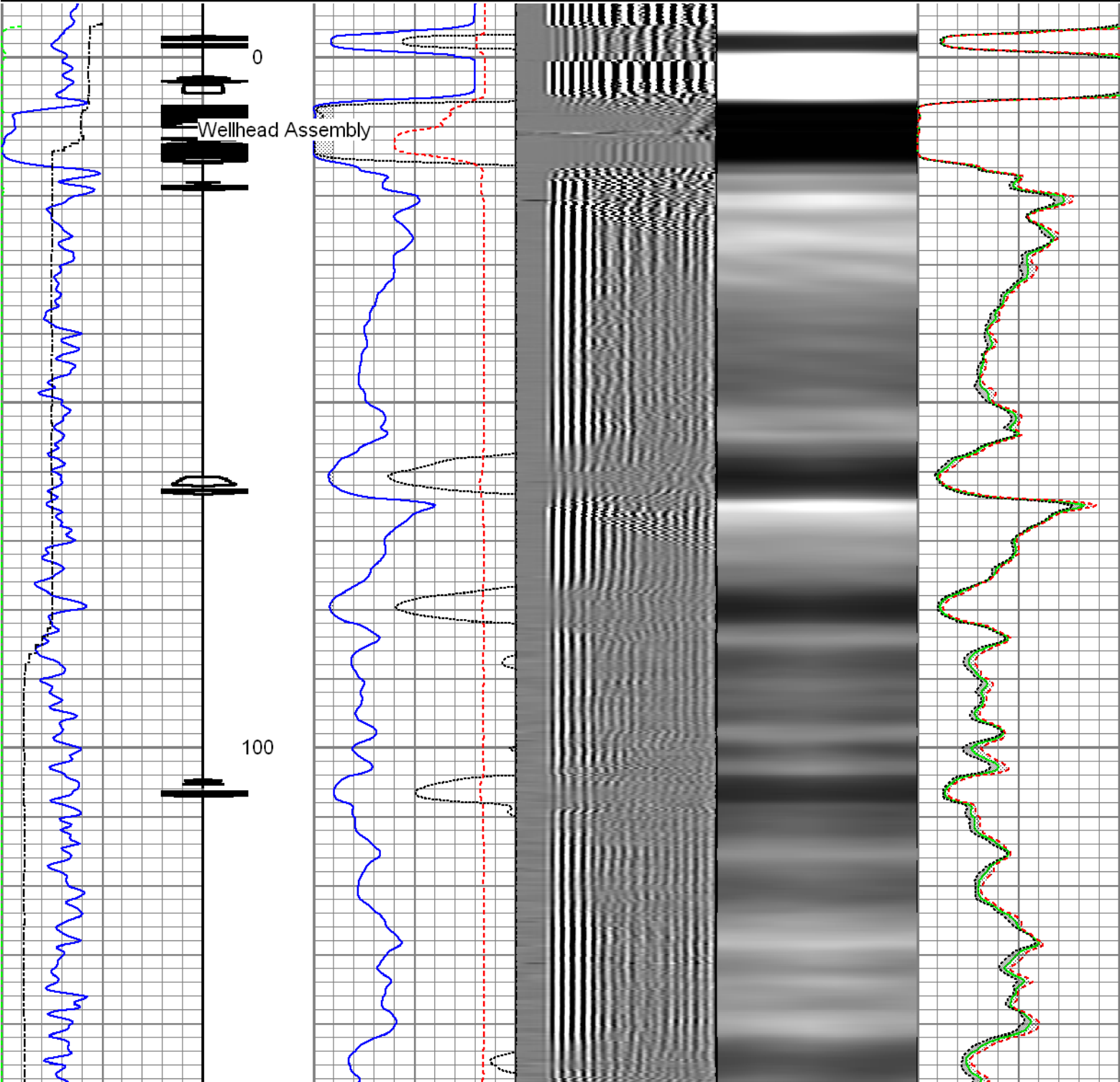


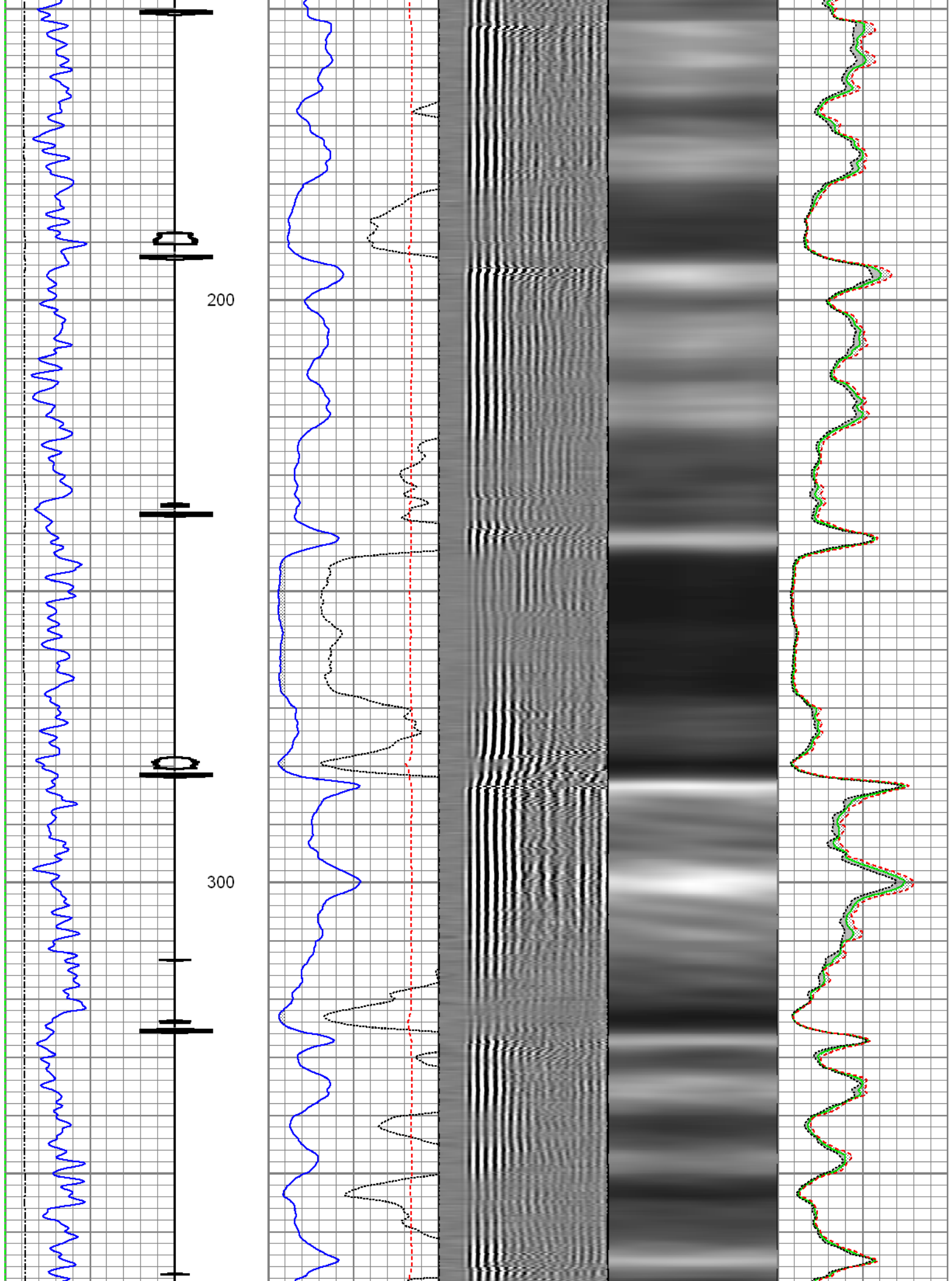
Main Pass

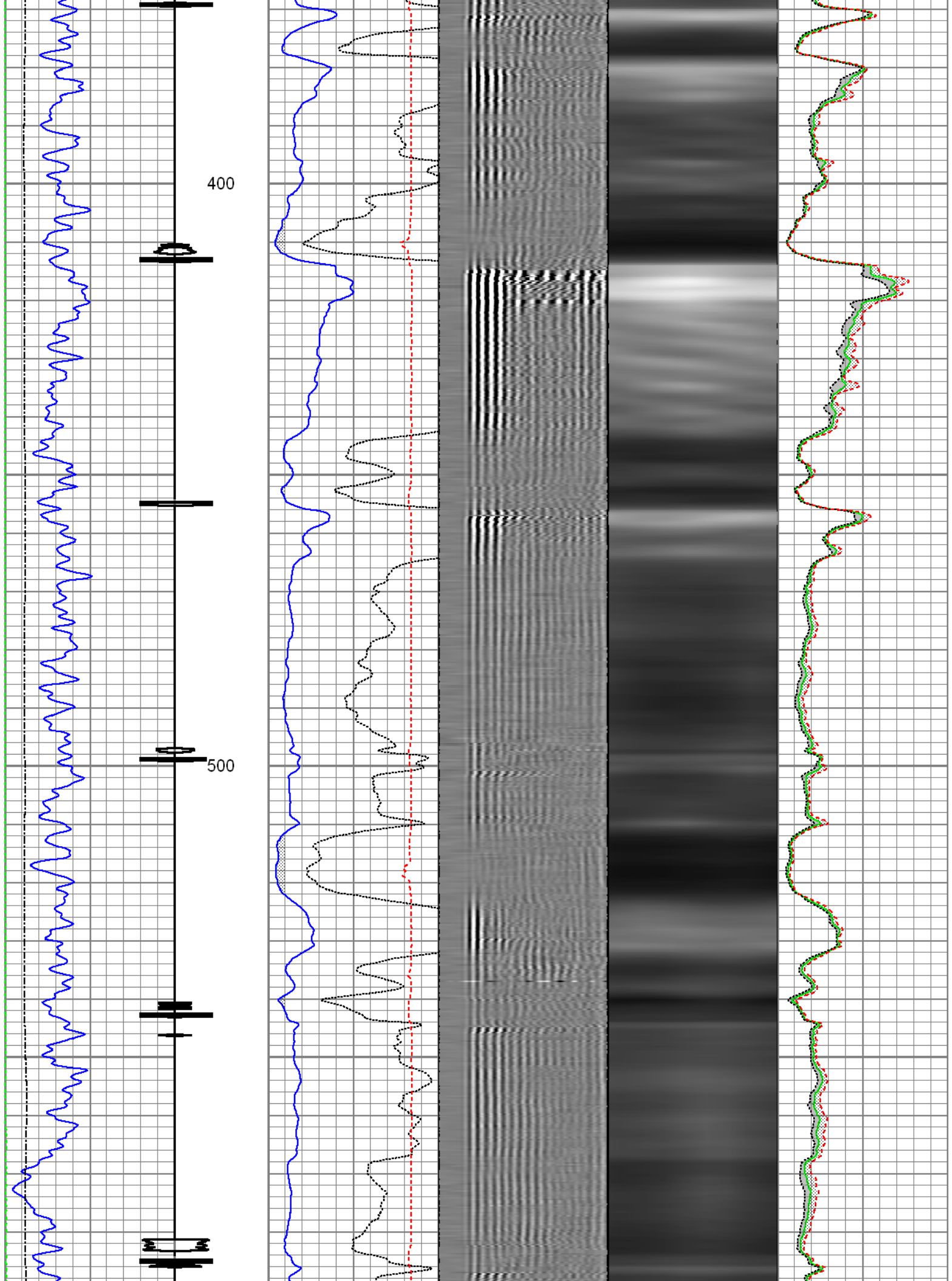
Recorded with 2800 PSI Surface Induced Pressure

Database File: 0512340835\_anadarko\_green 2n-8hz\_07-28-15\_rbl.db  
Dataset Pathname: pass10  
Presentation Format: rbt004  
Dataset Creation: Tue Jul 28 16:16:18 2015 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

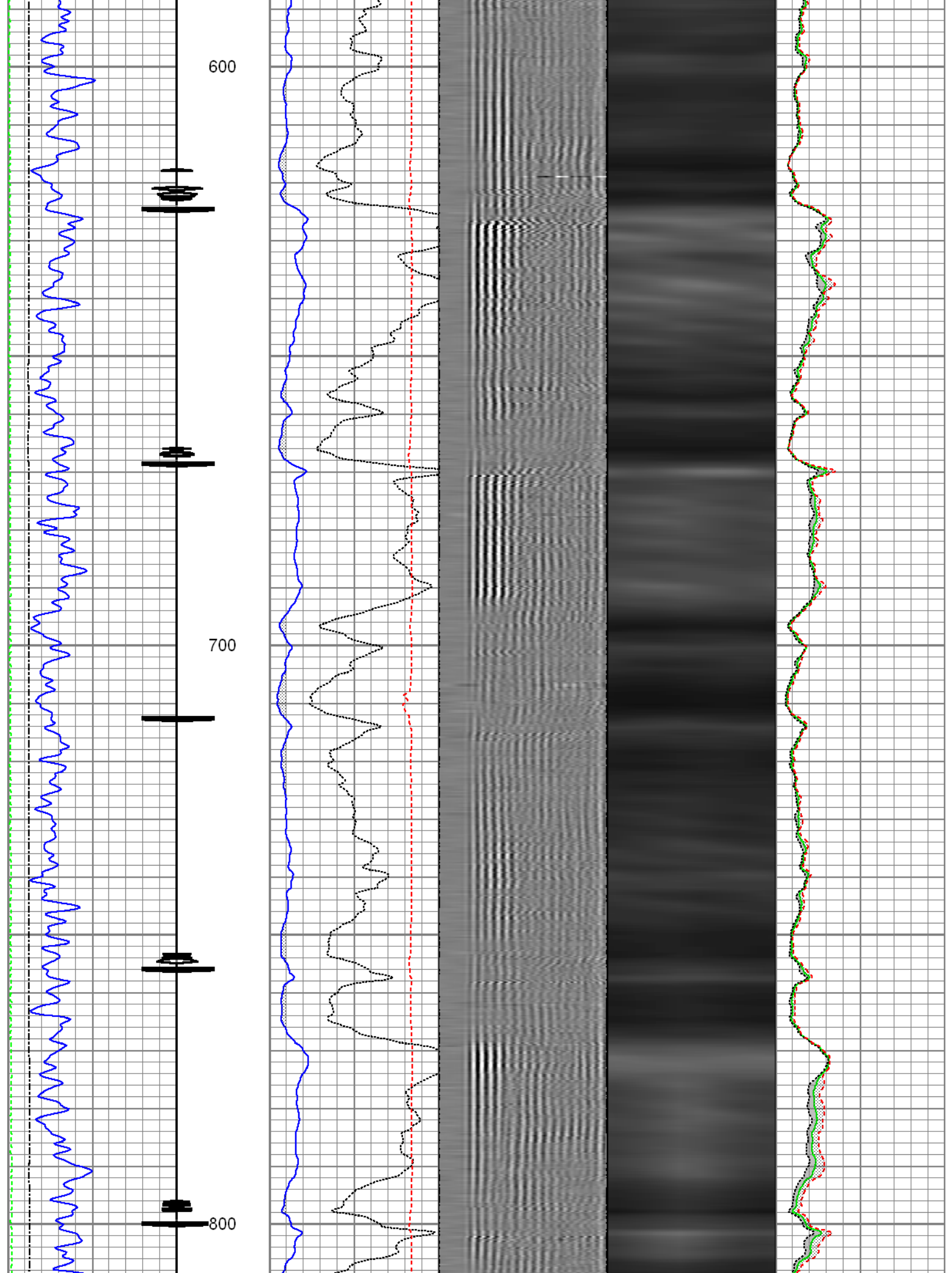
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-150 (ft/min) 150	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				

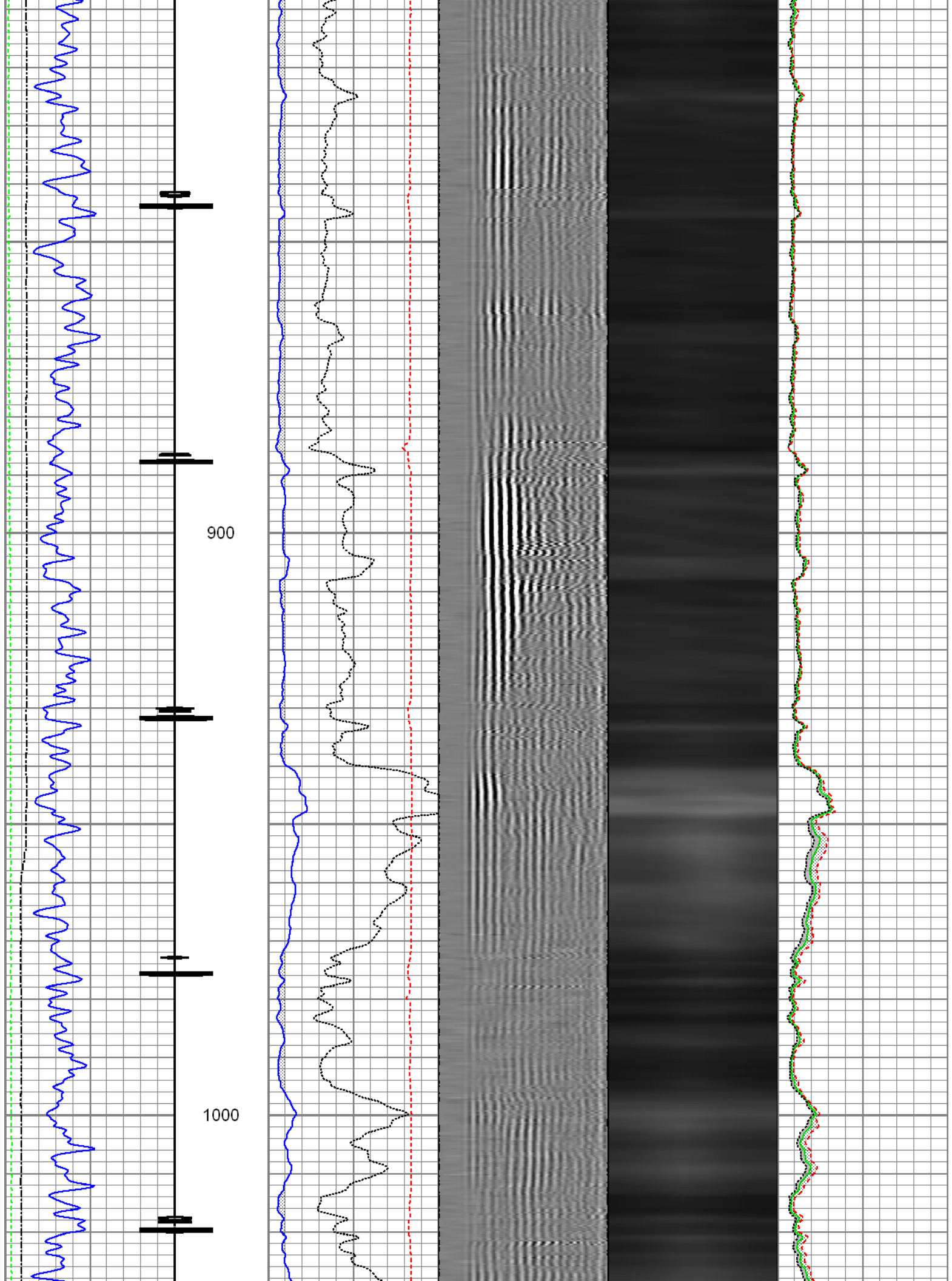


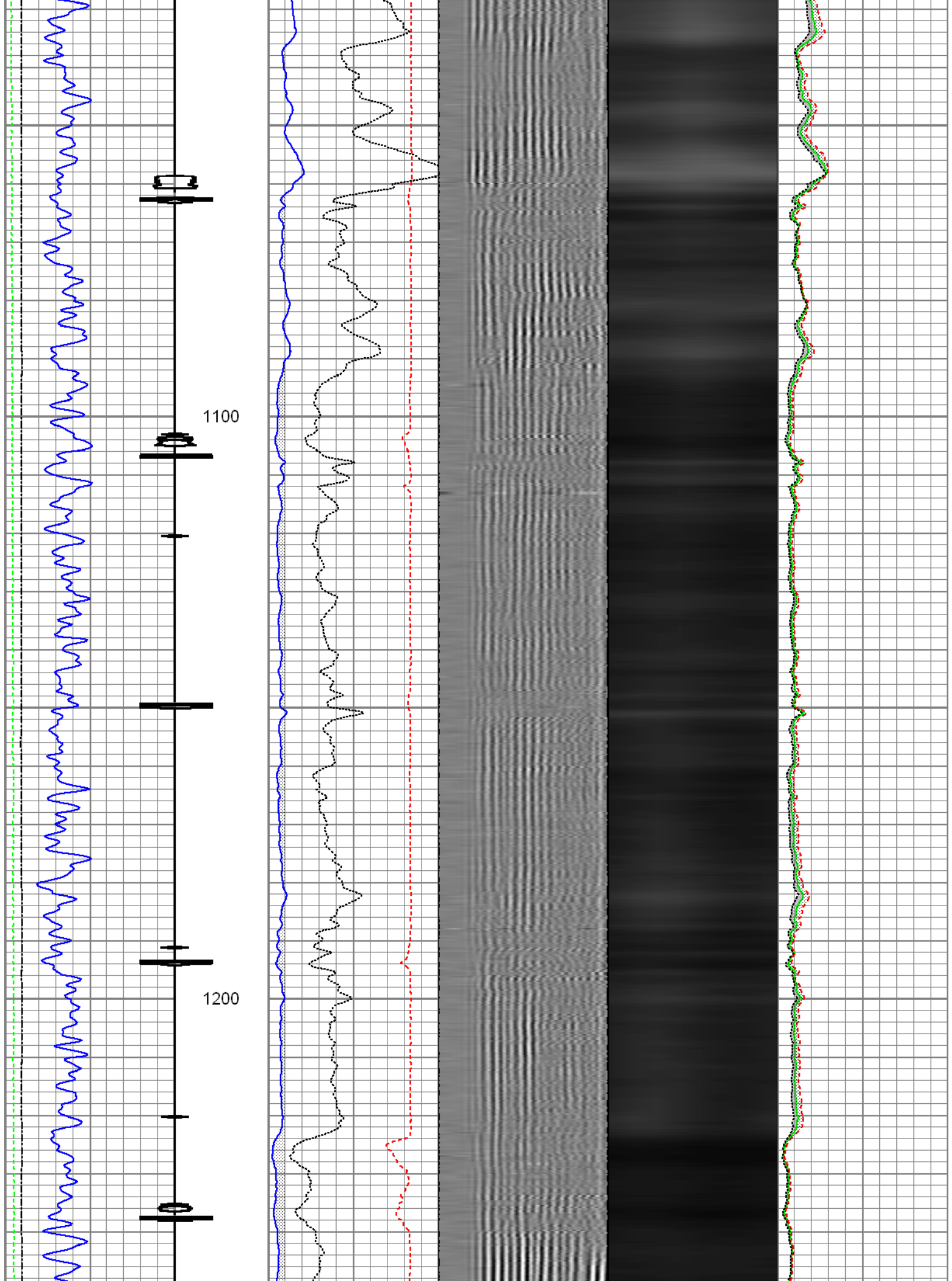


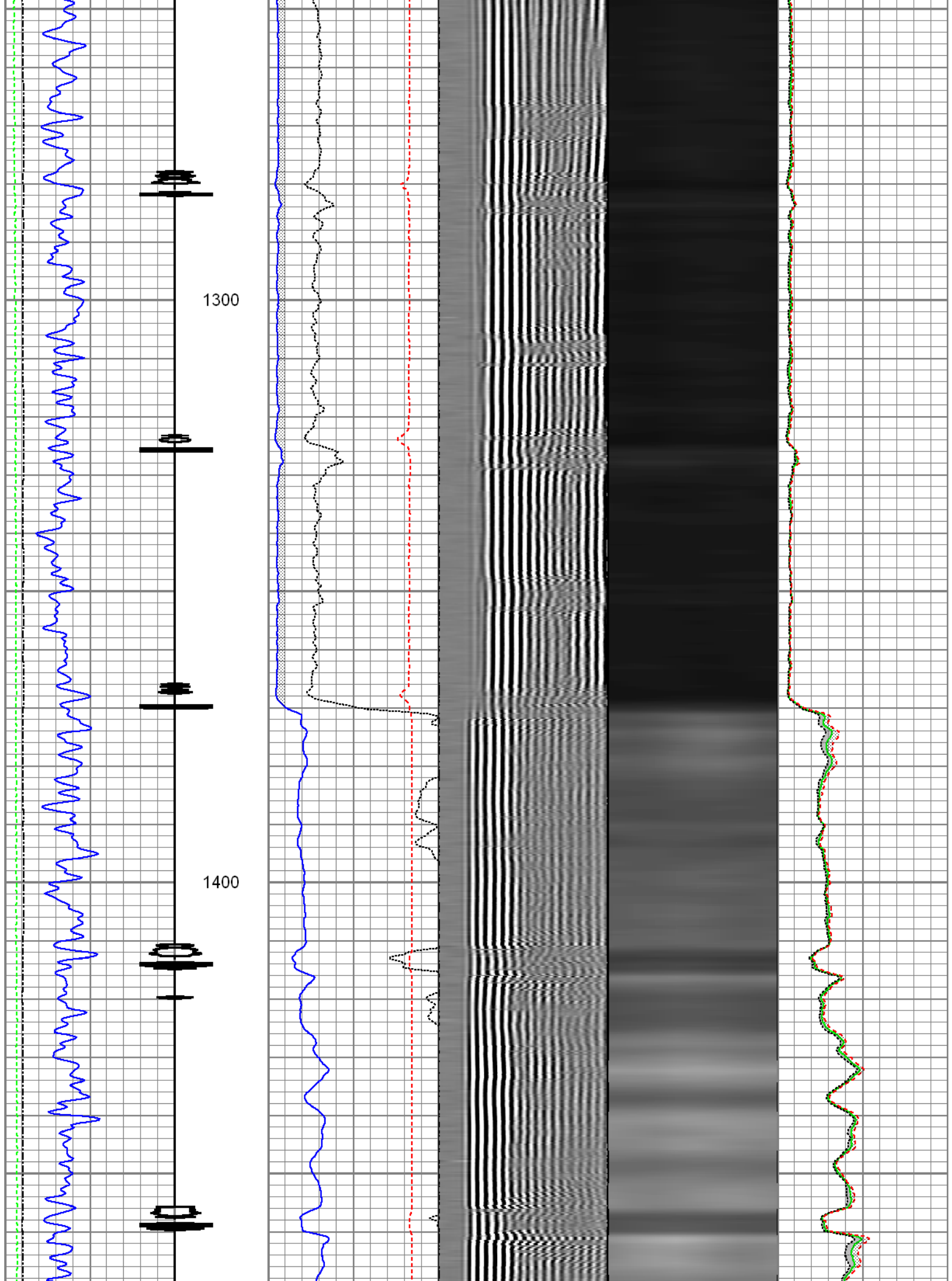




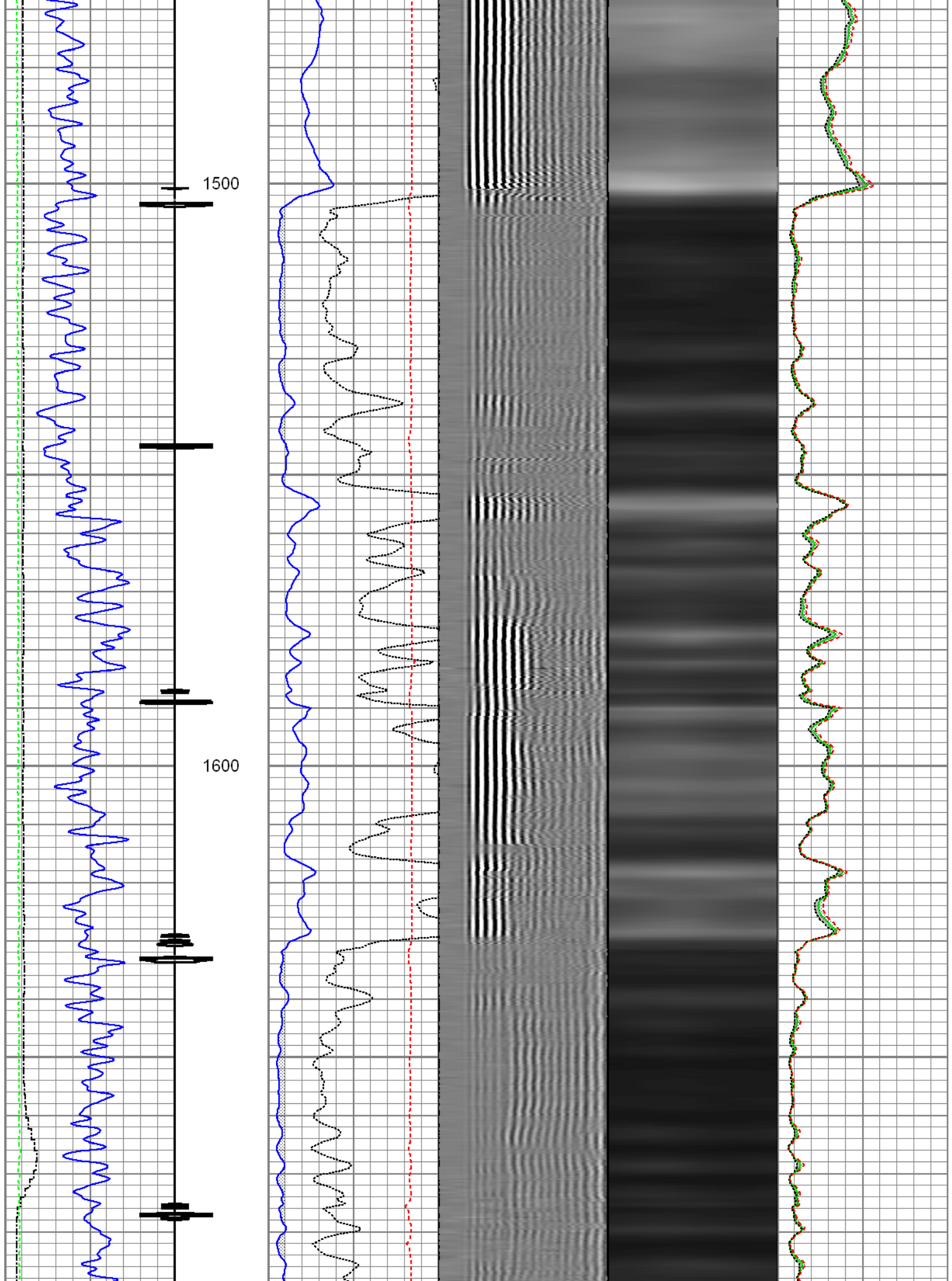


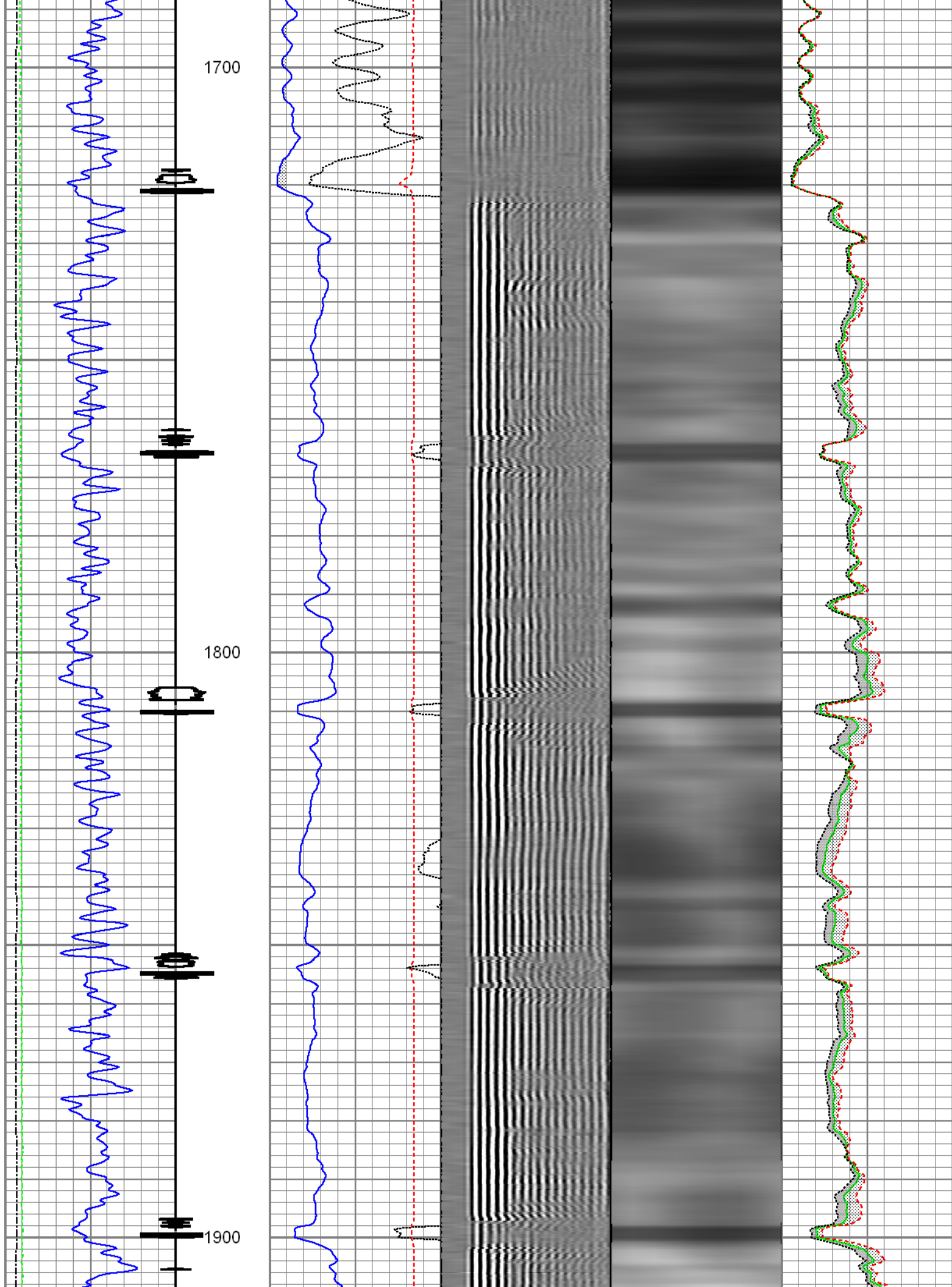


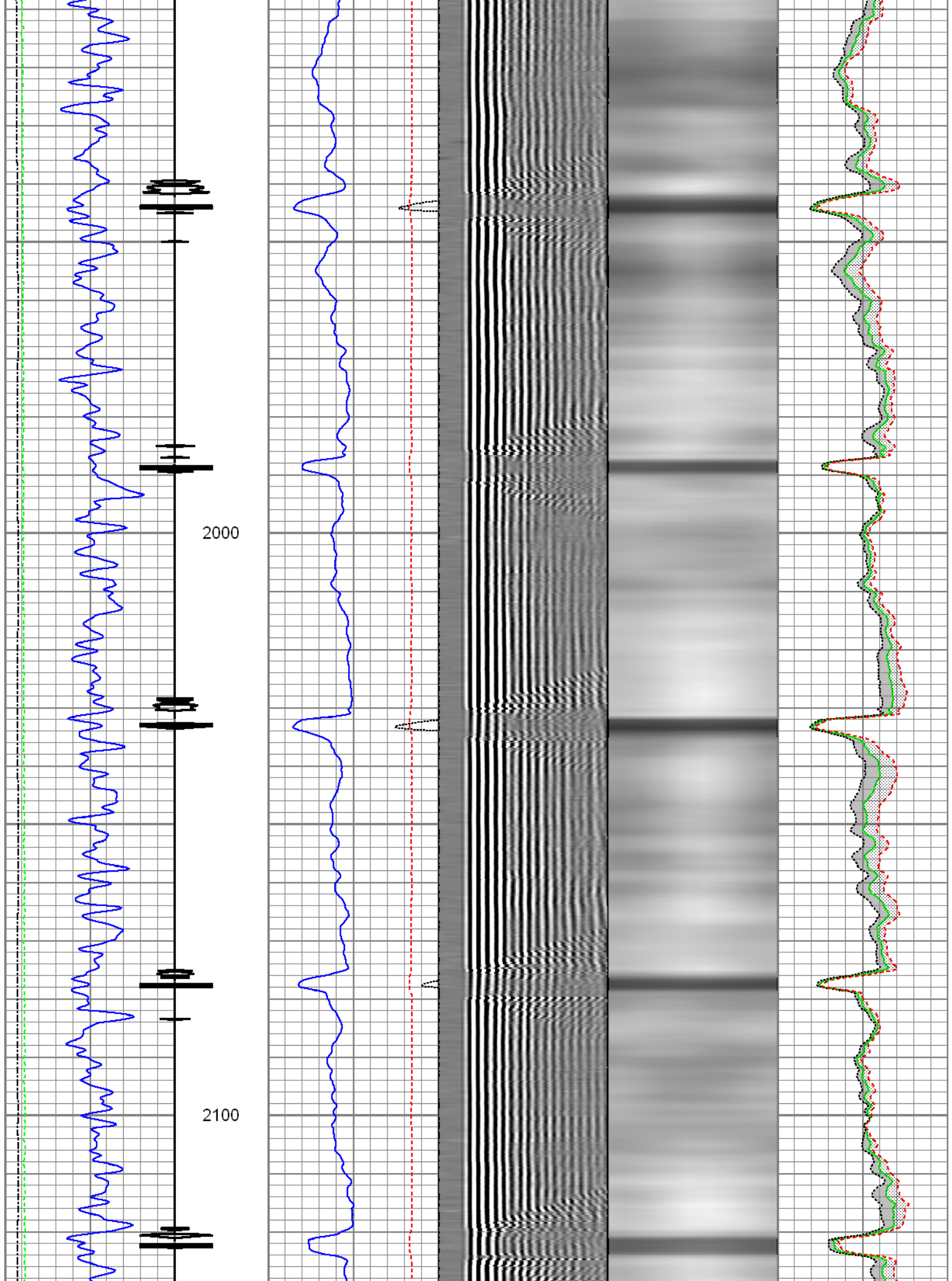


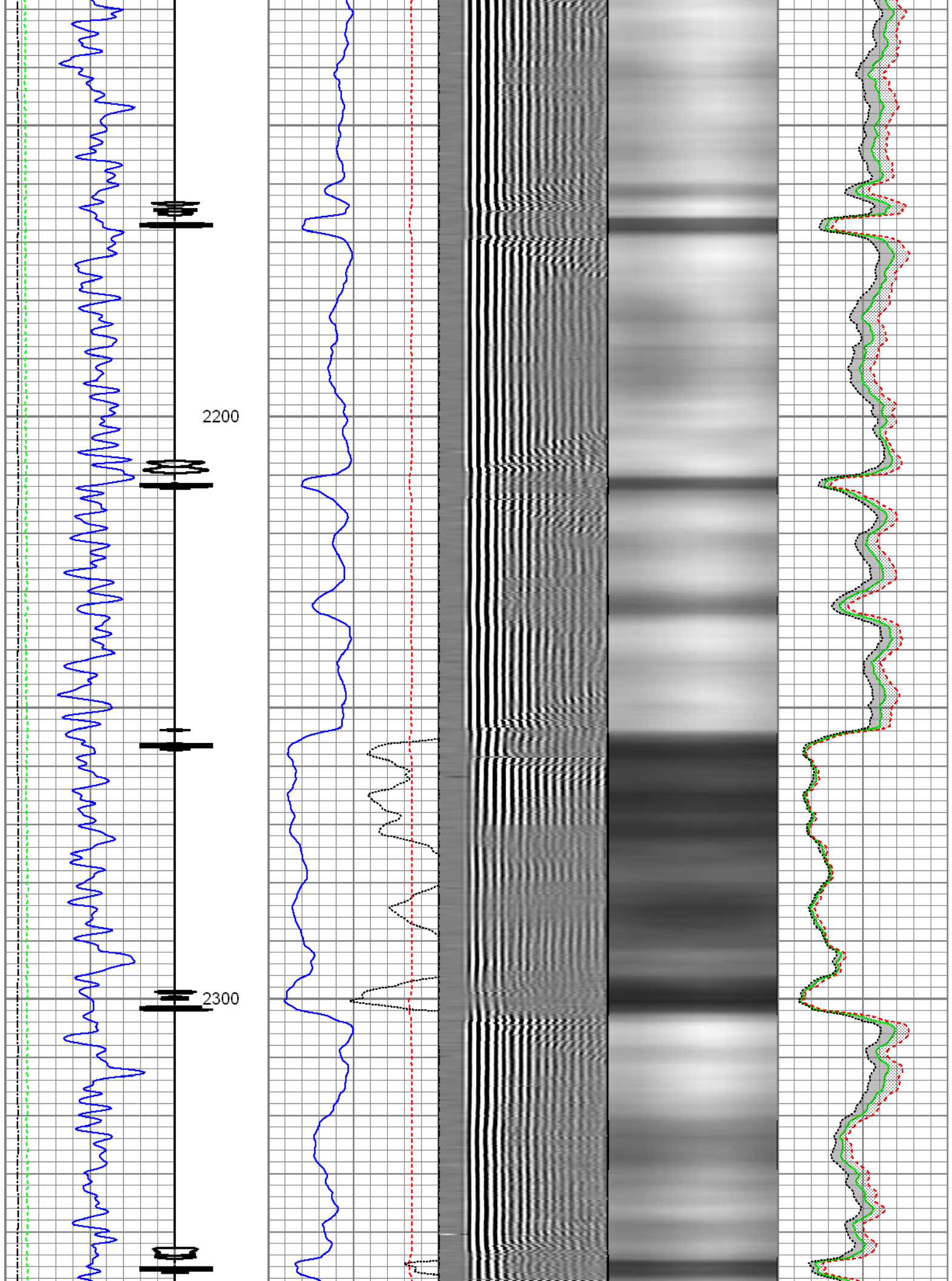




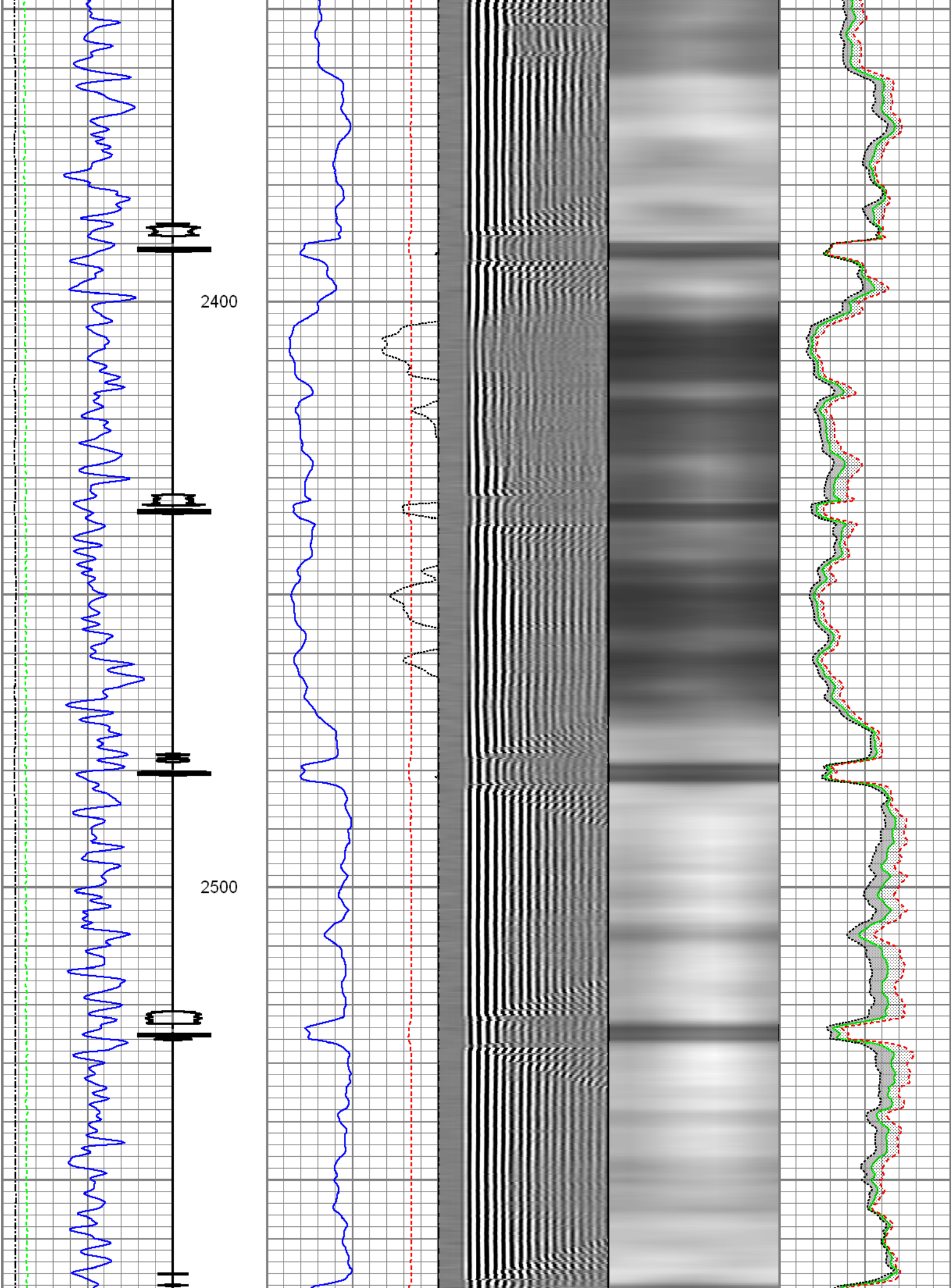


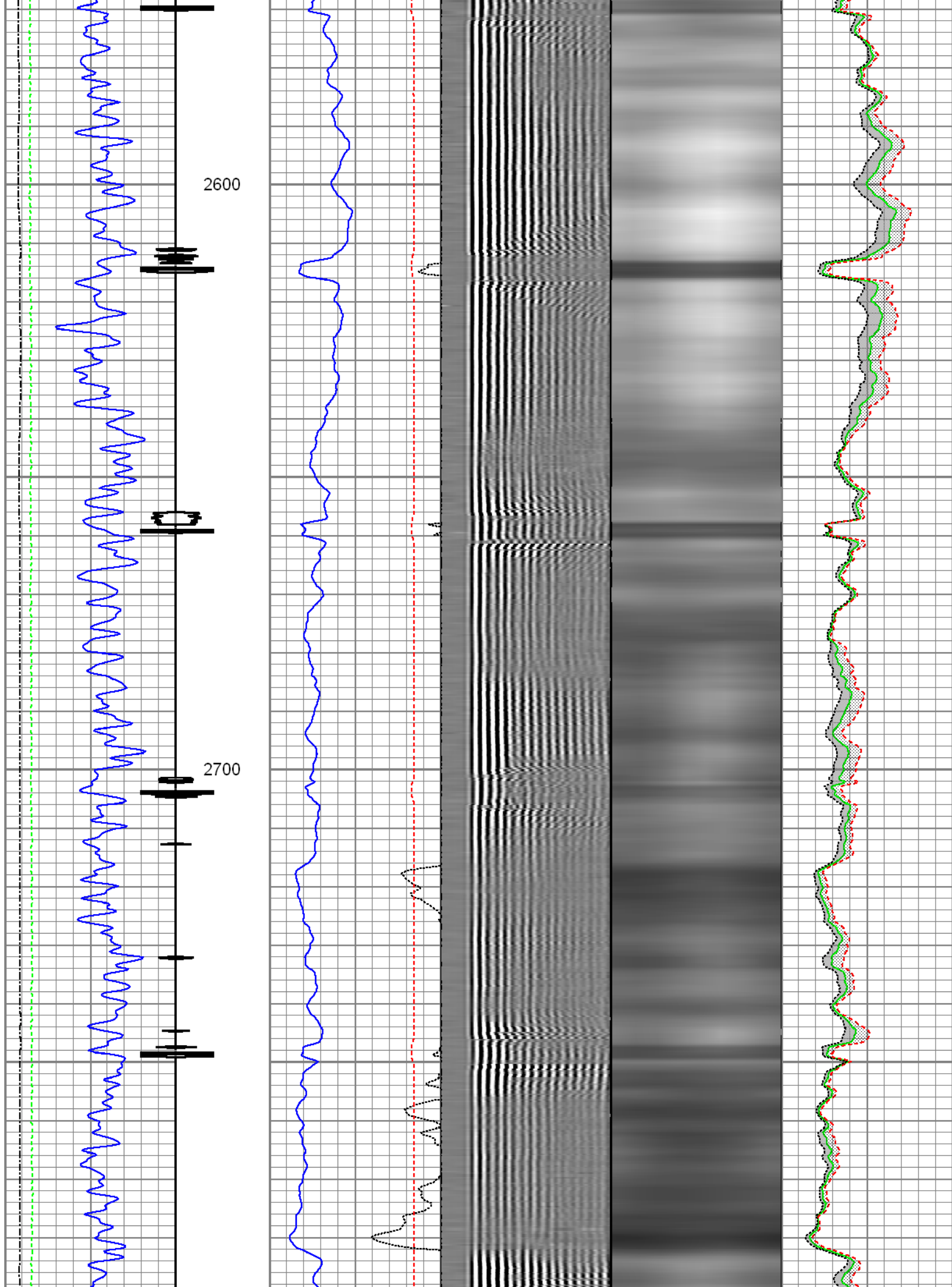


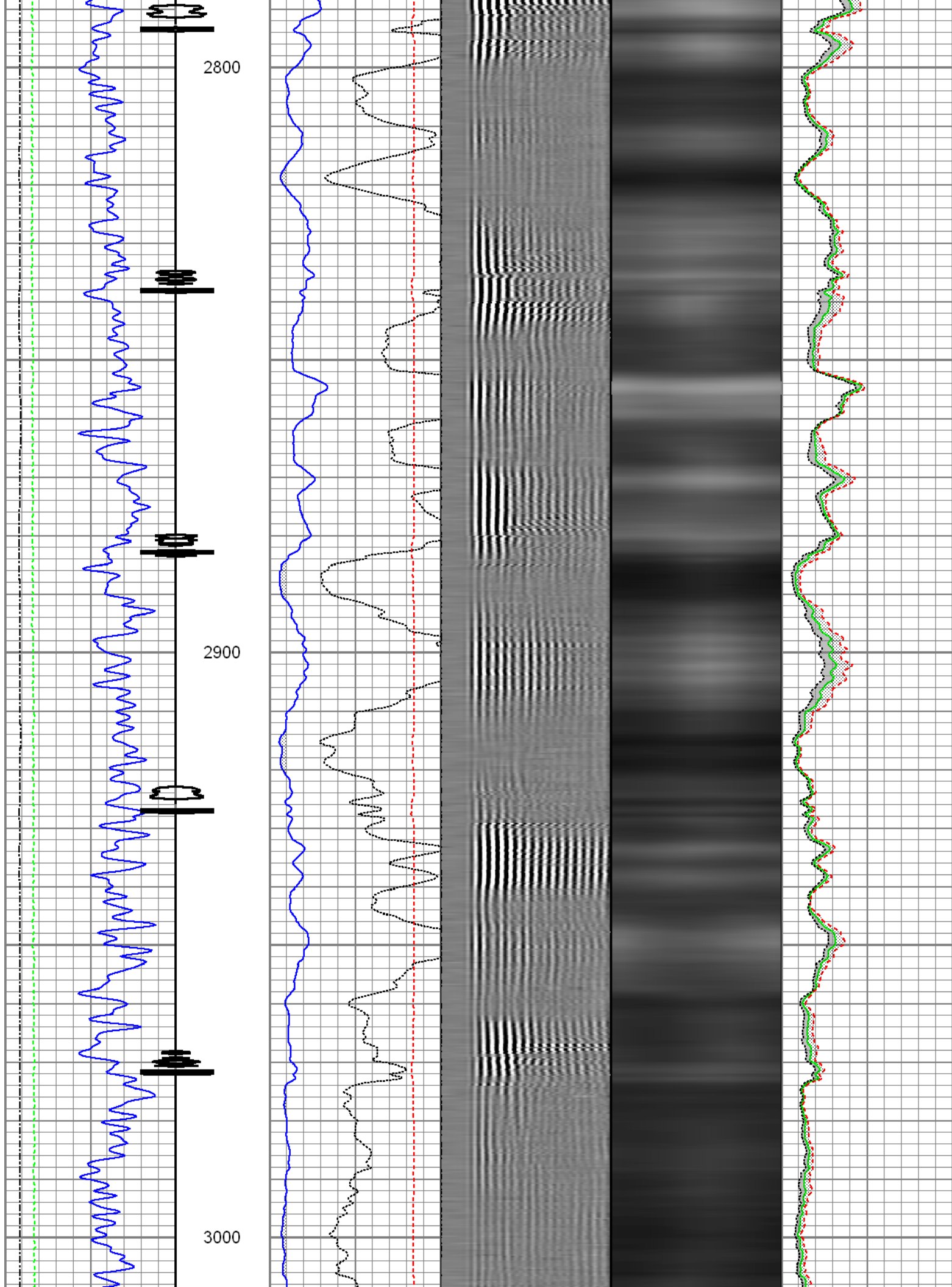


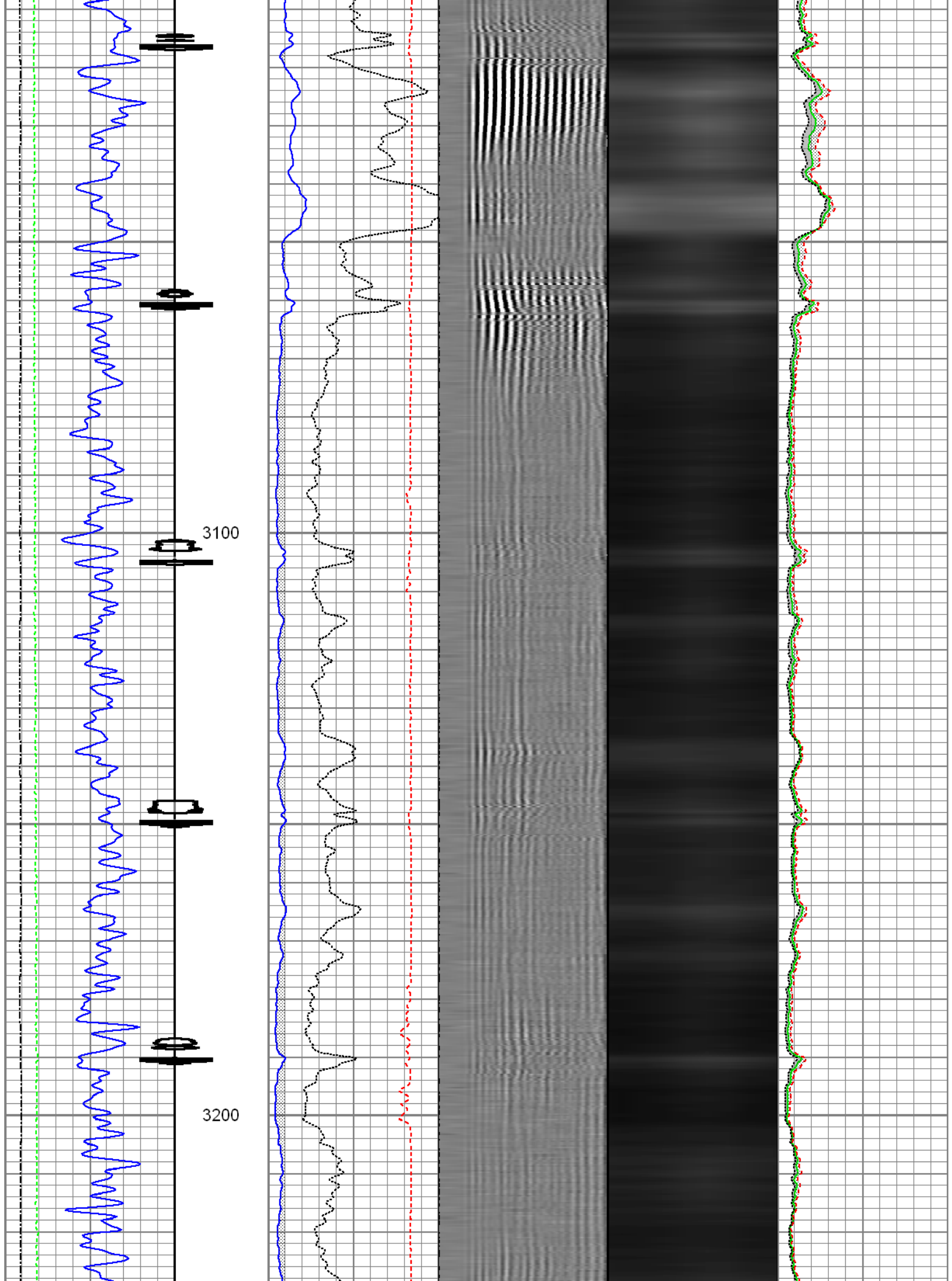




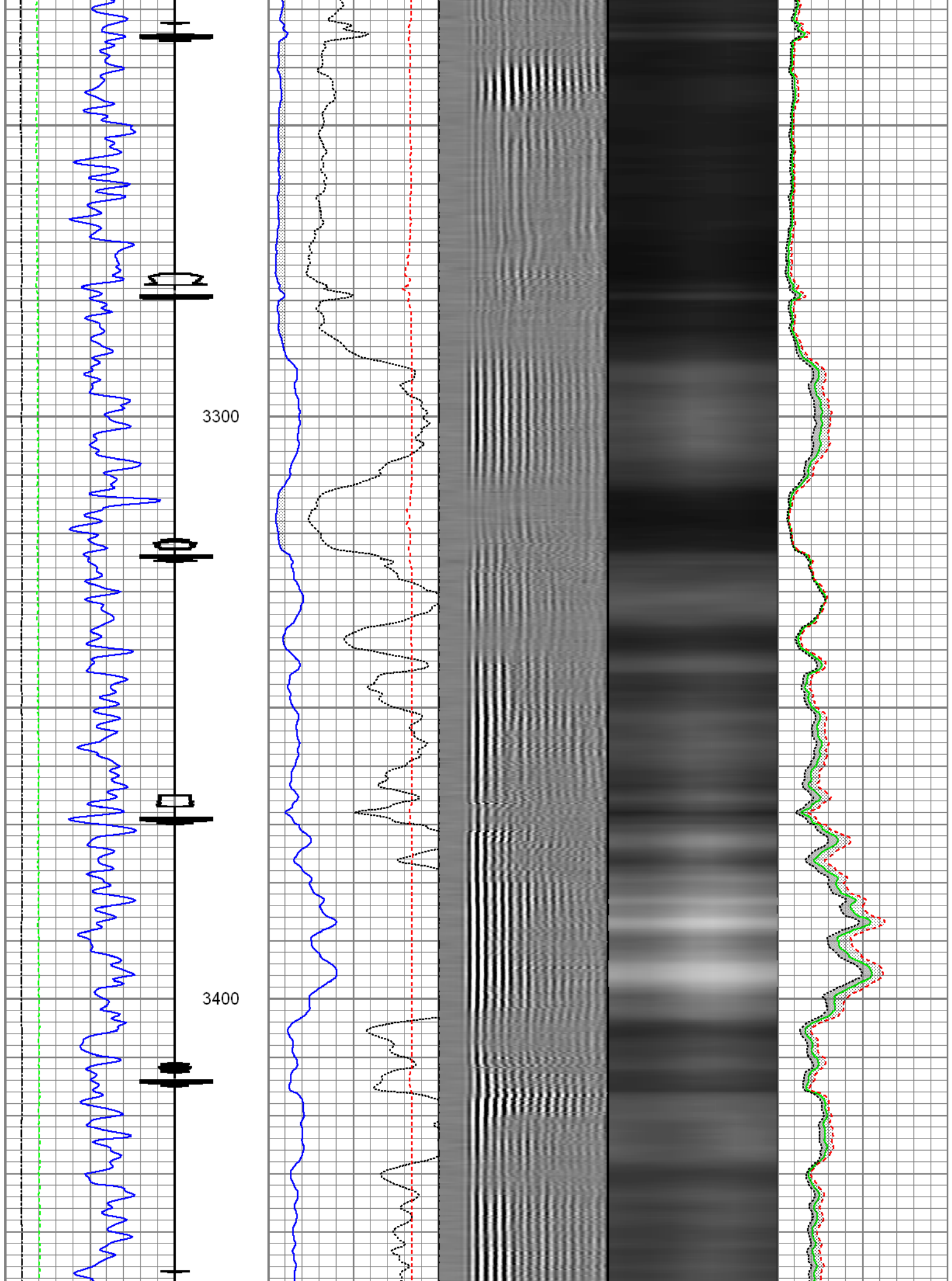


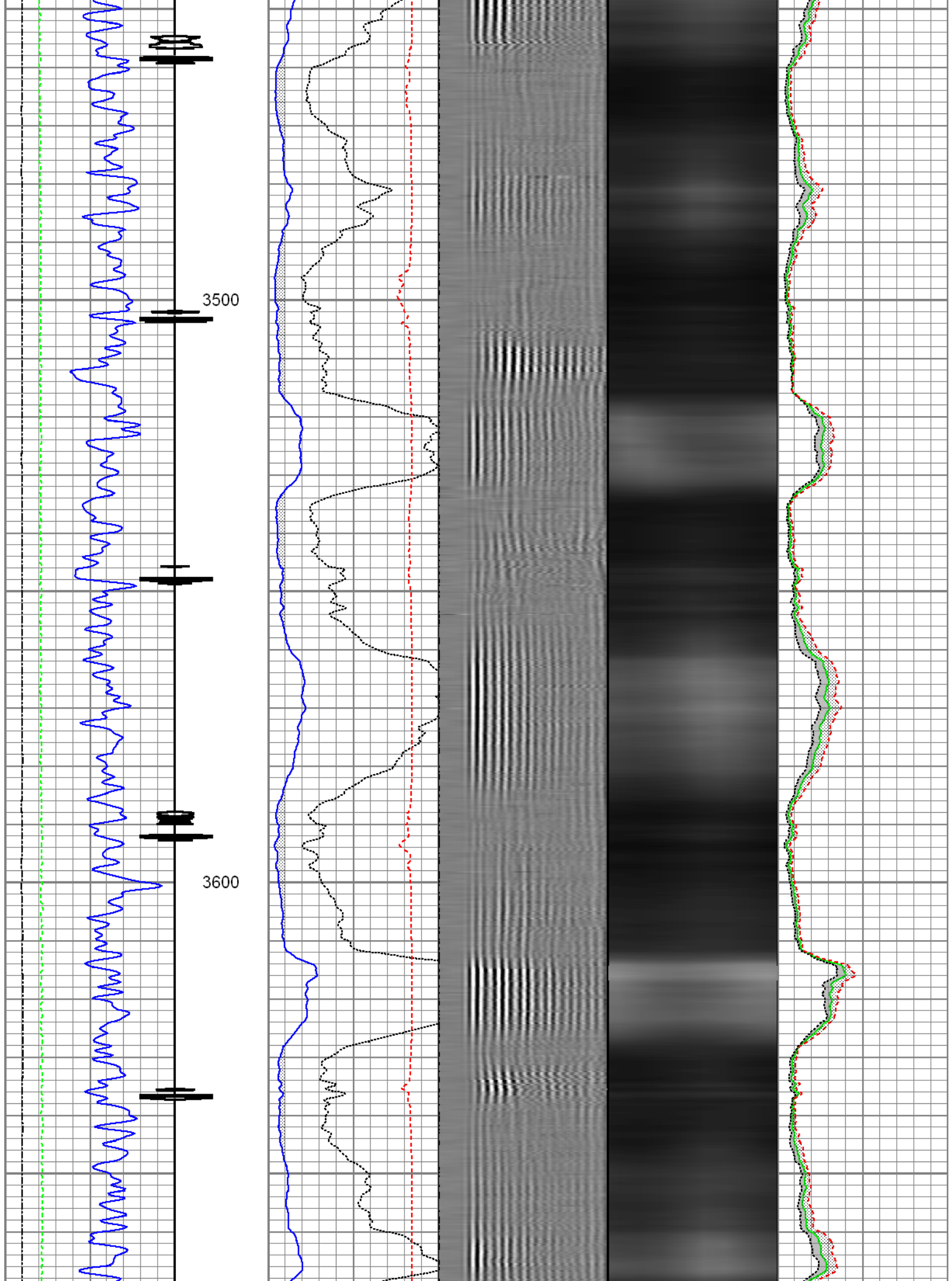


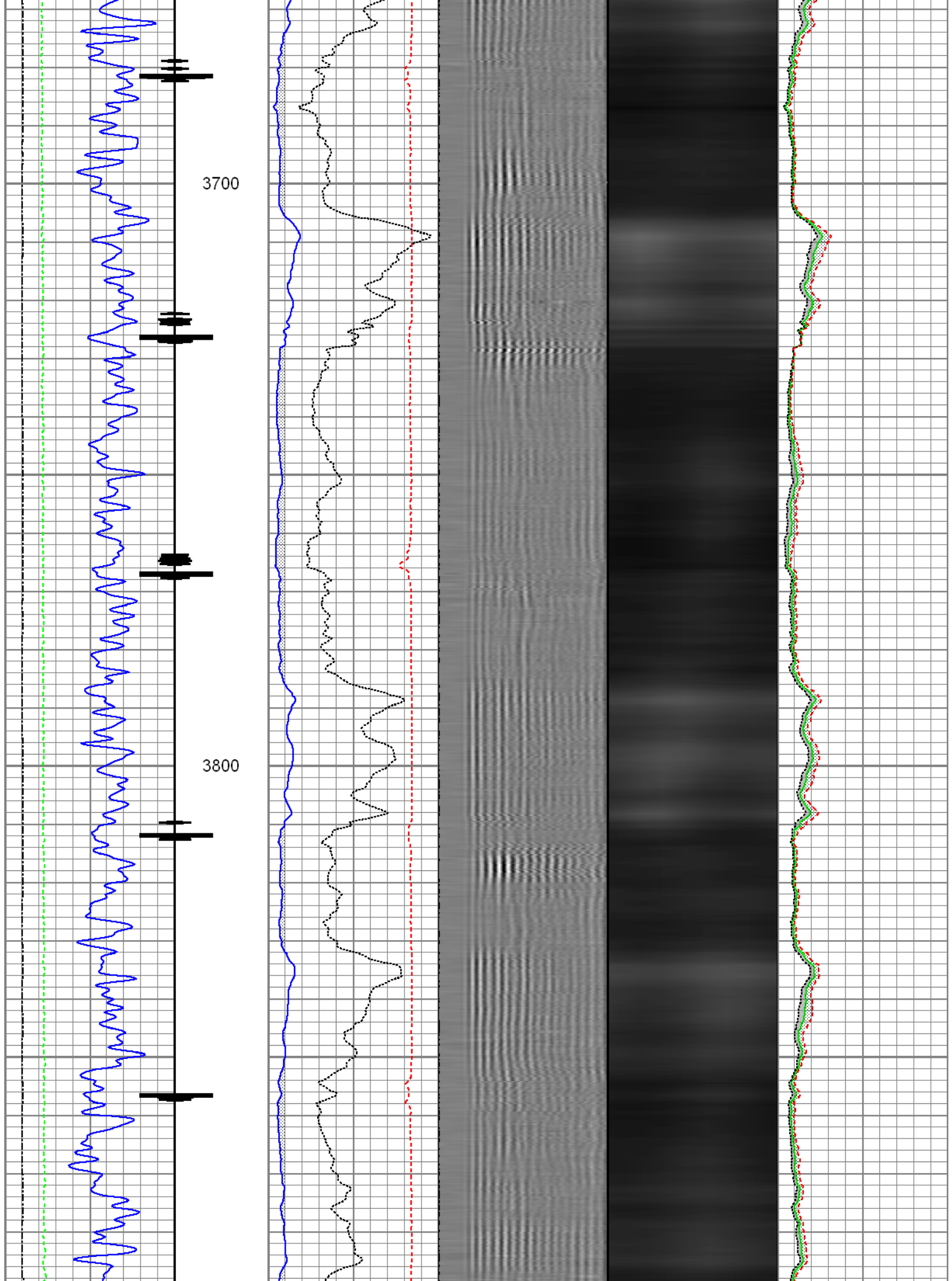


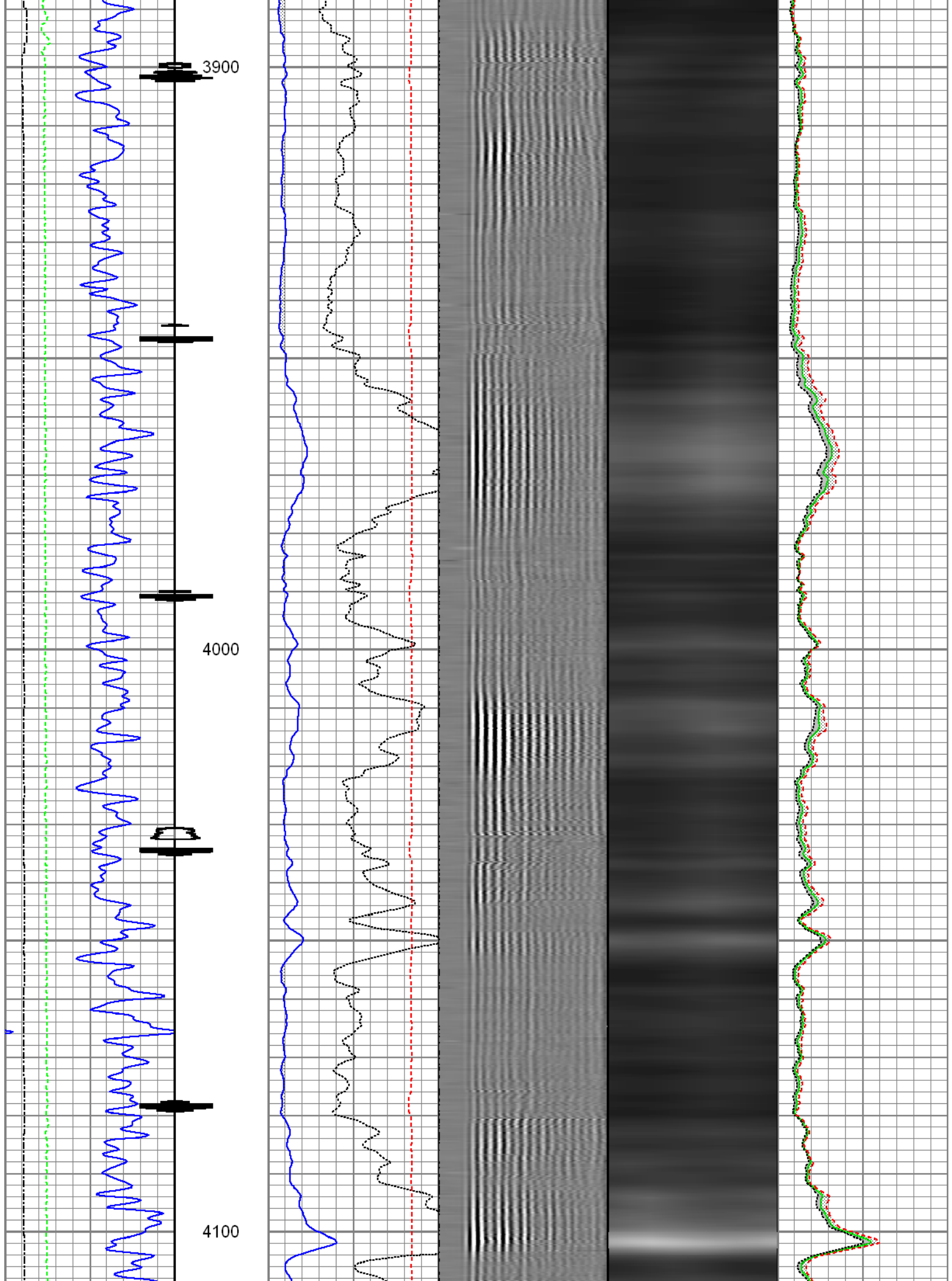




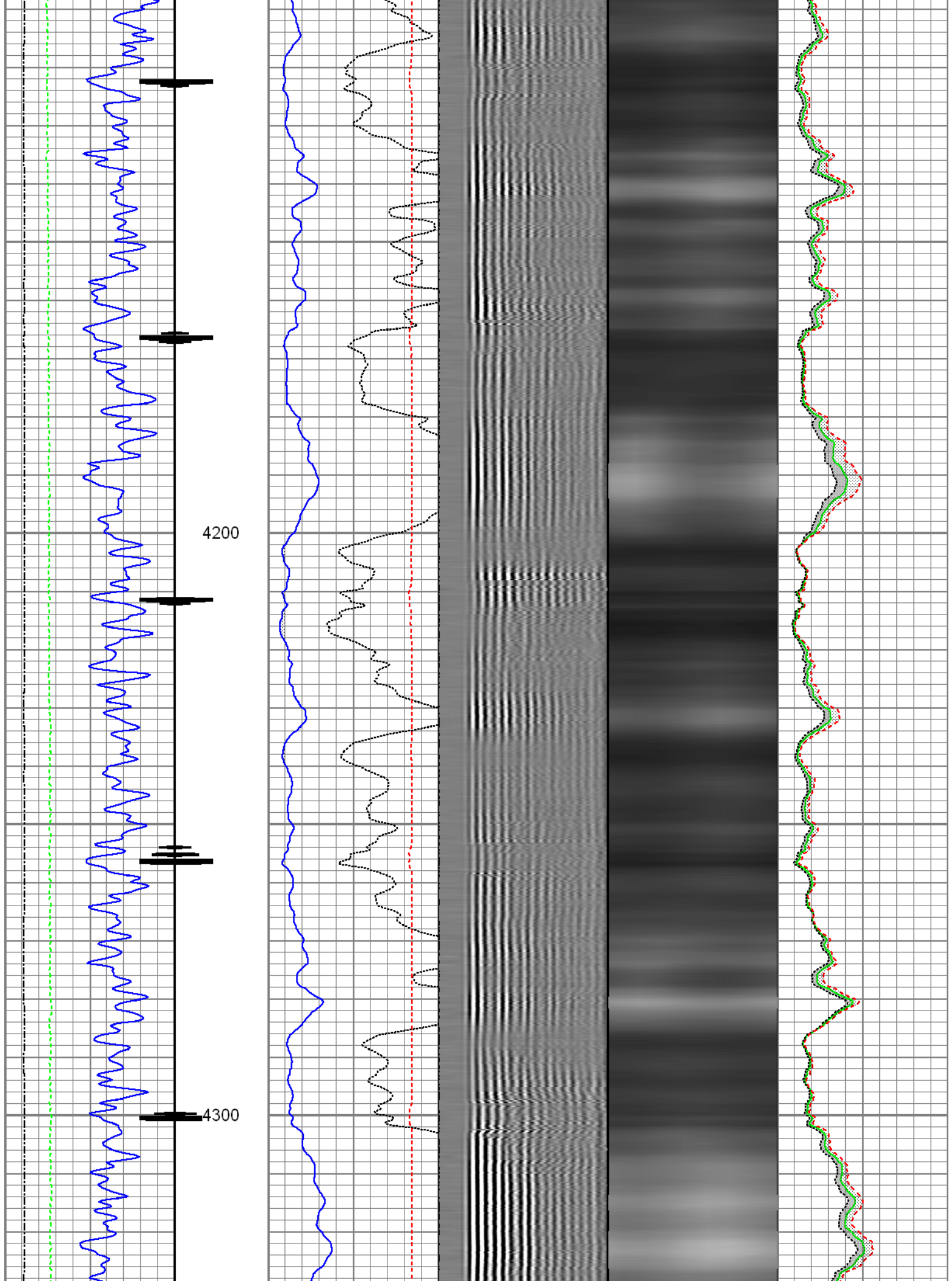


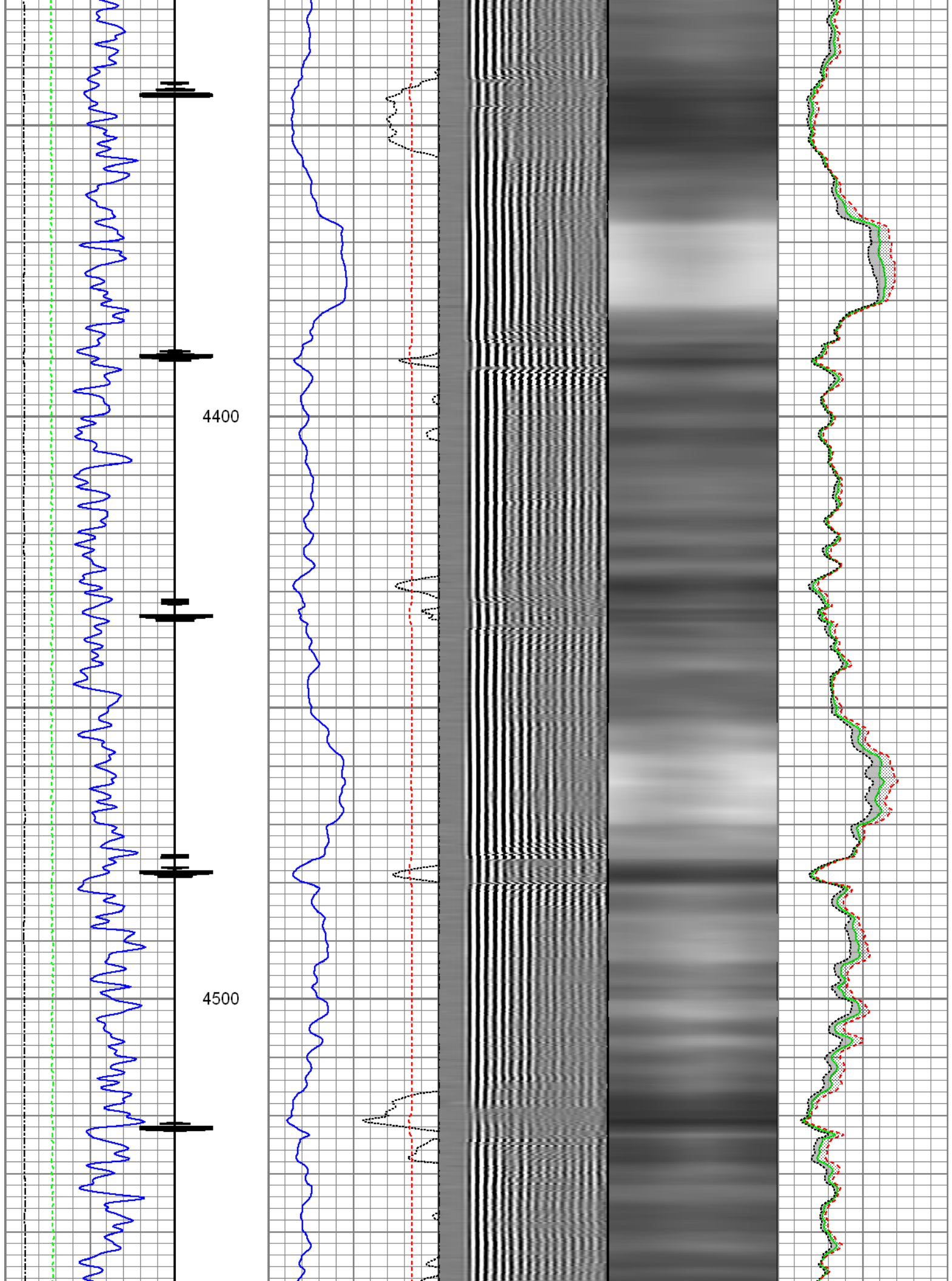


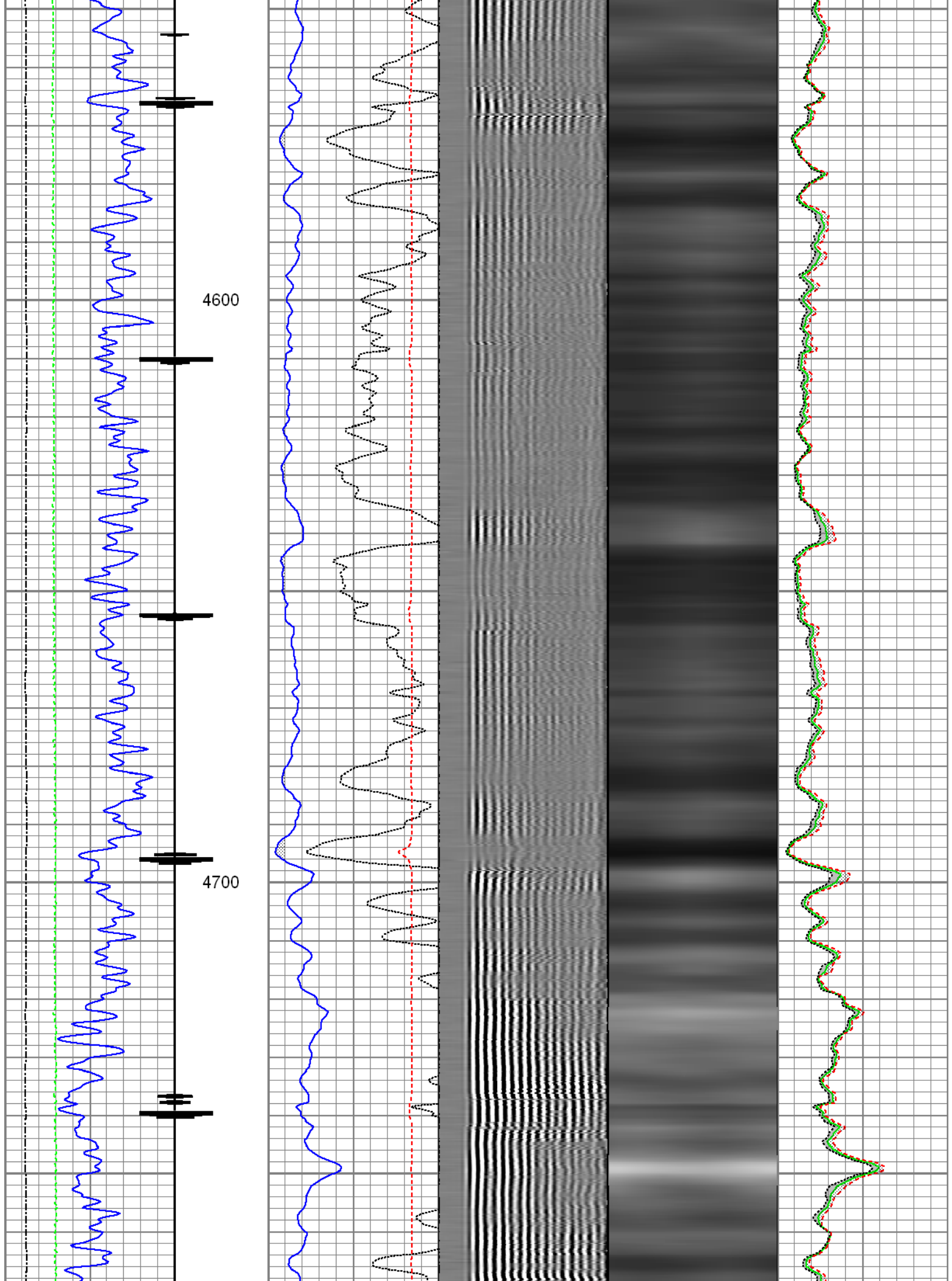


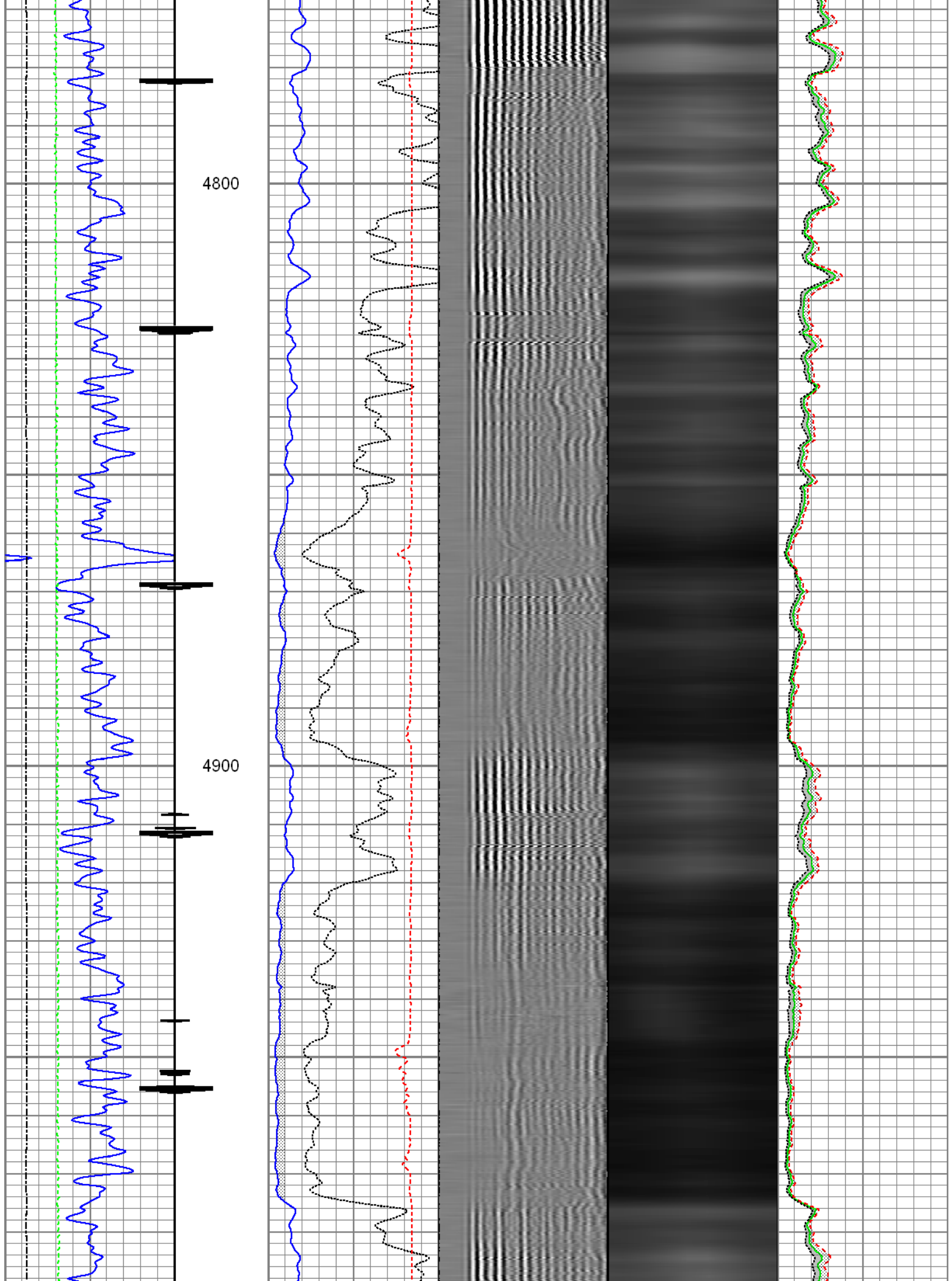




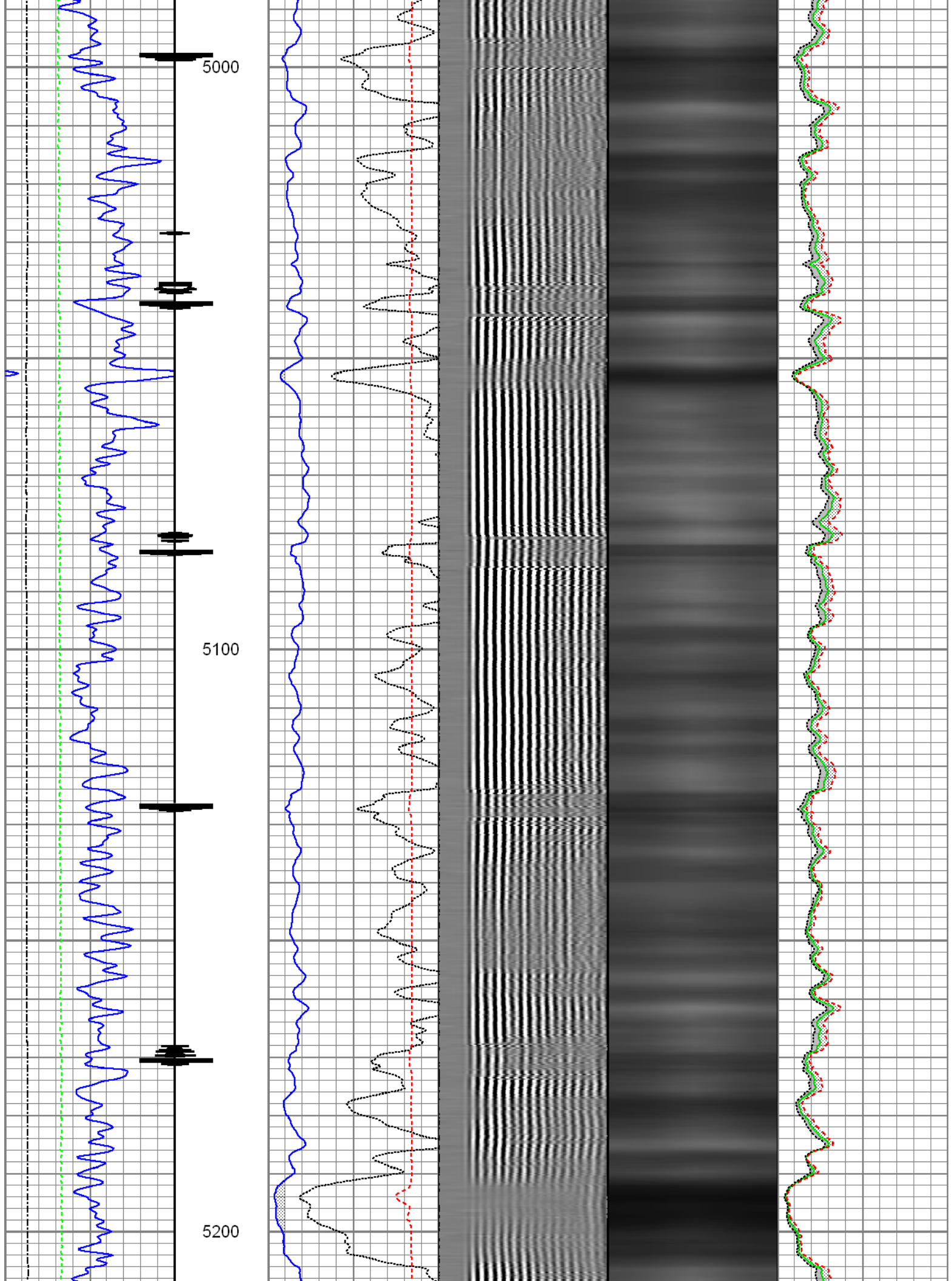


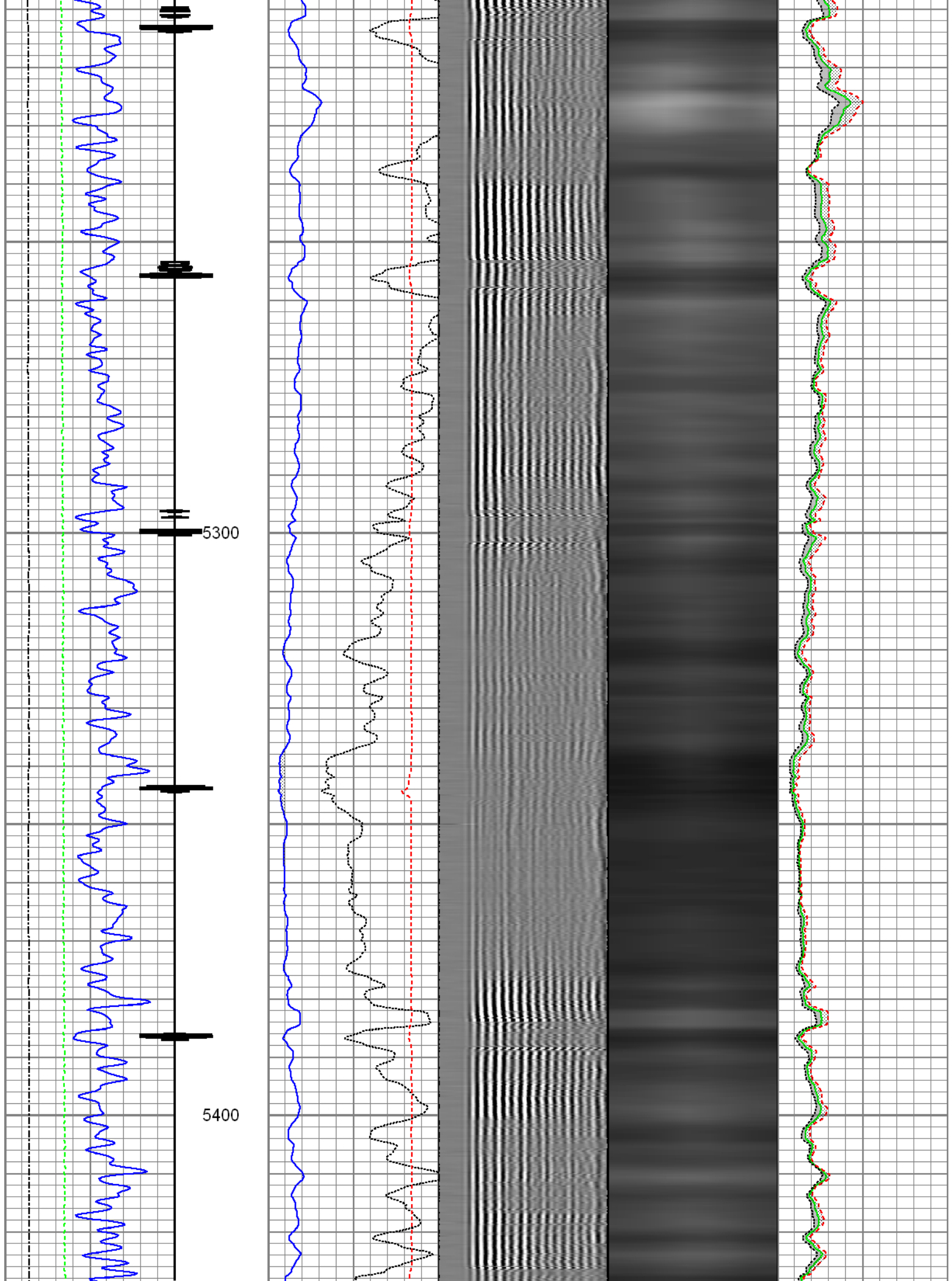


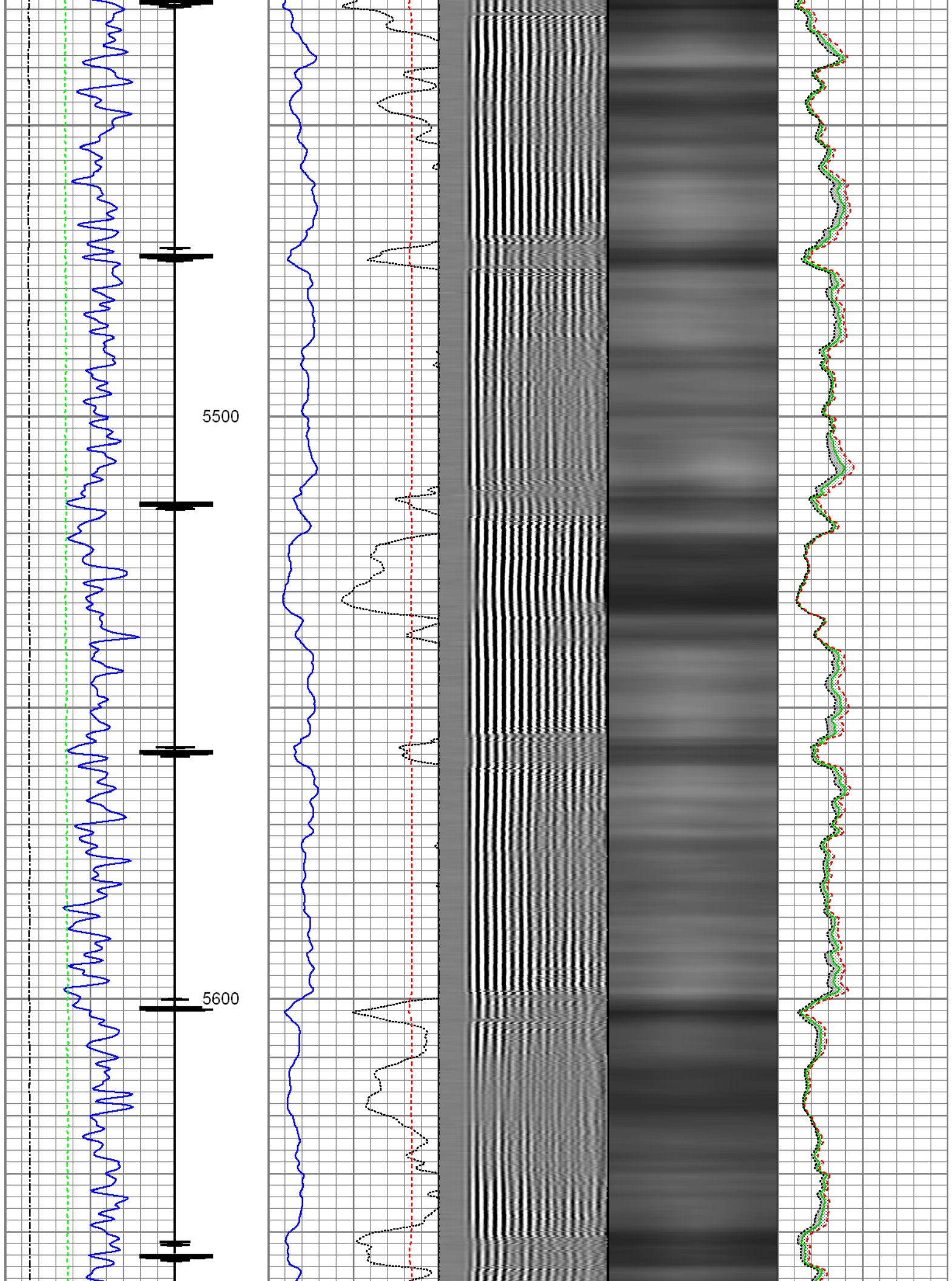




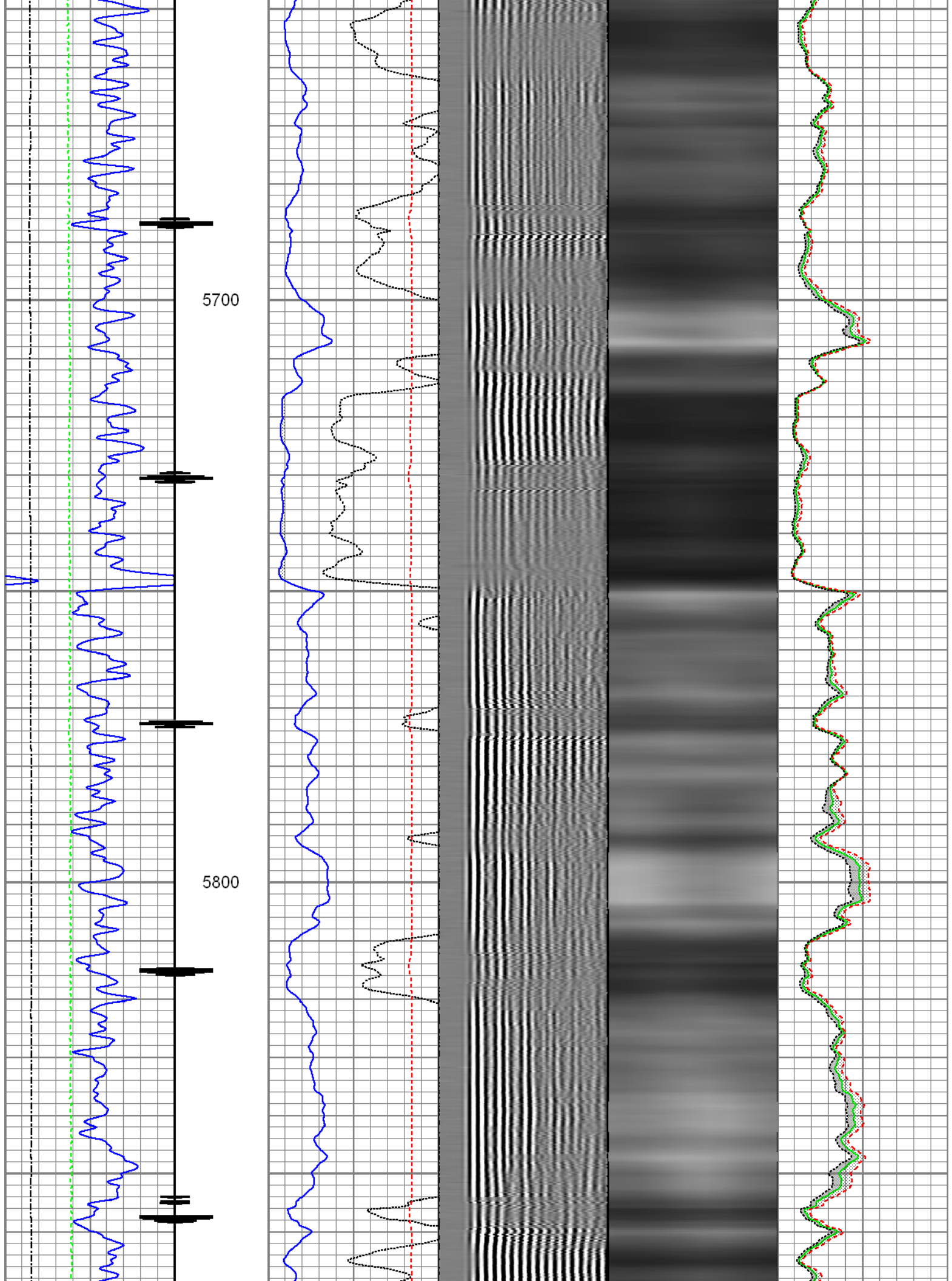




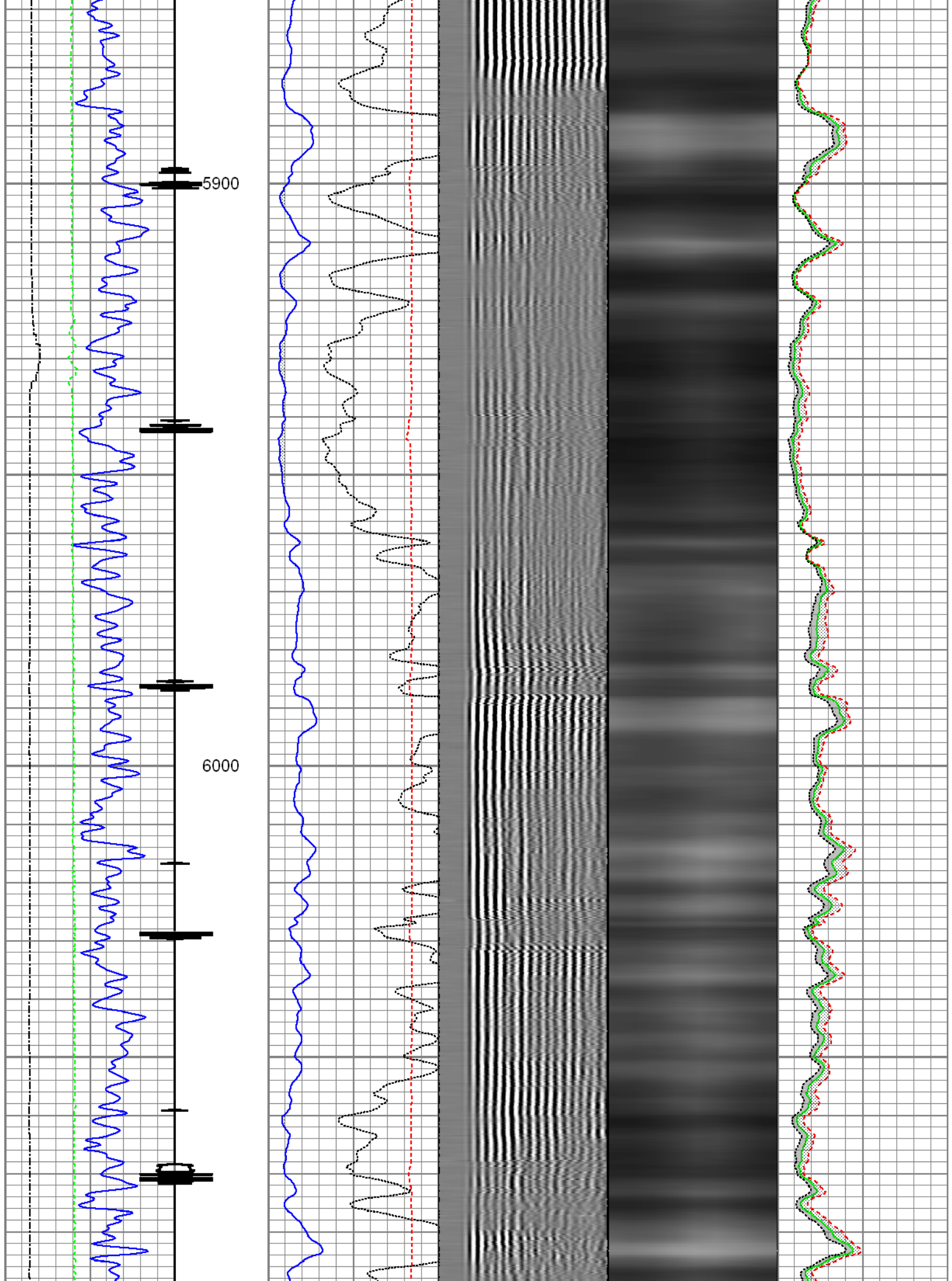


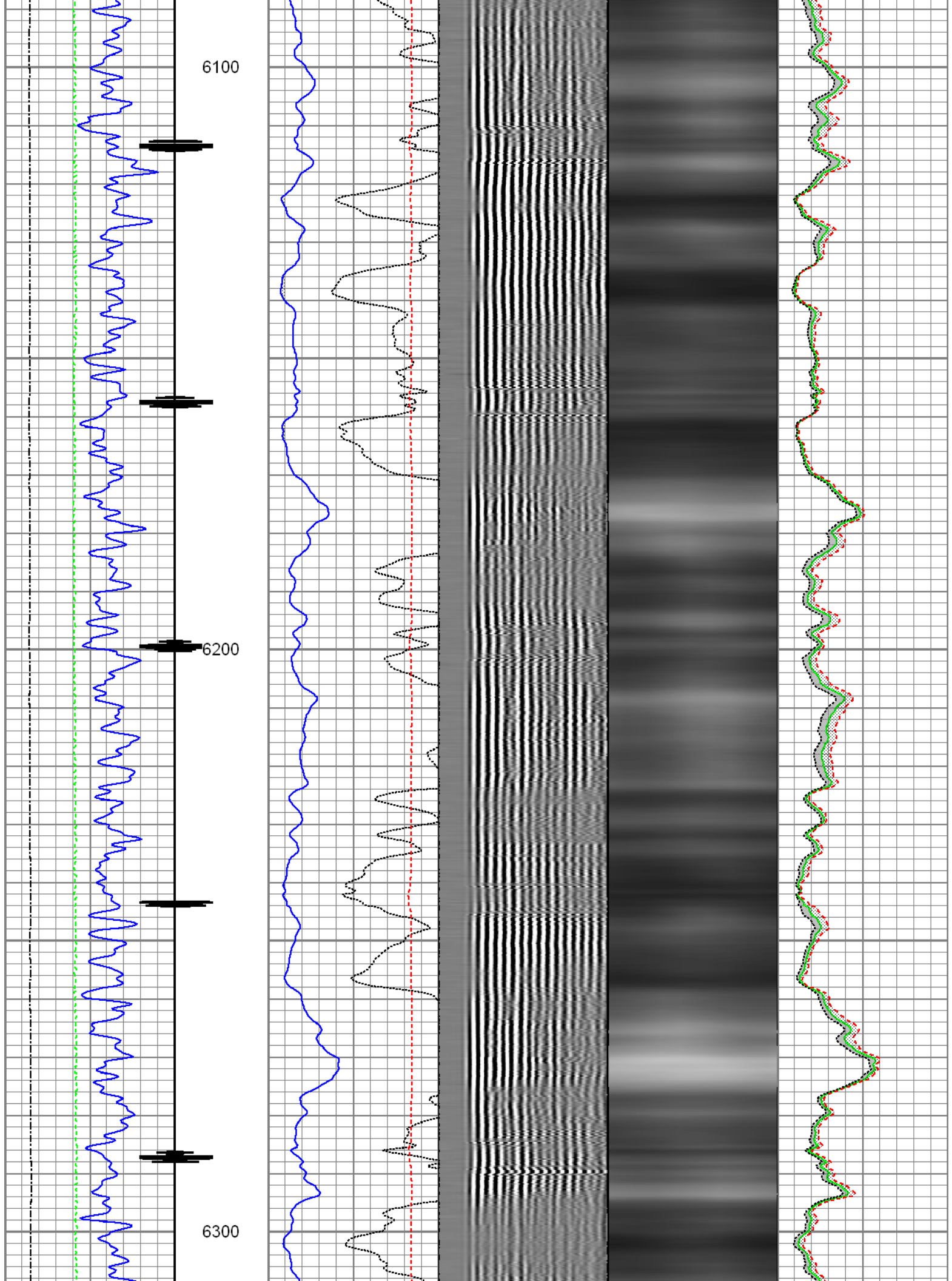


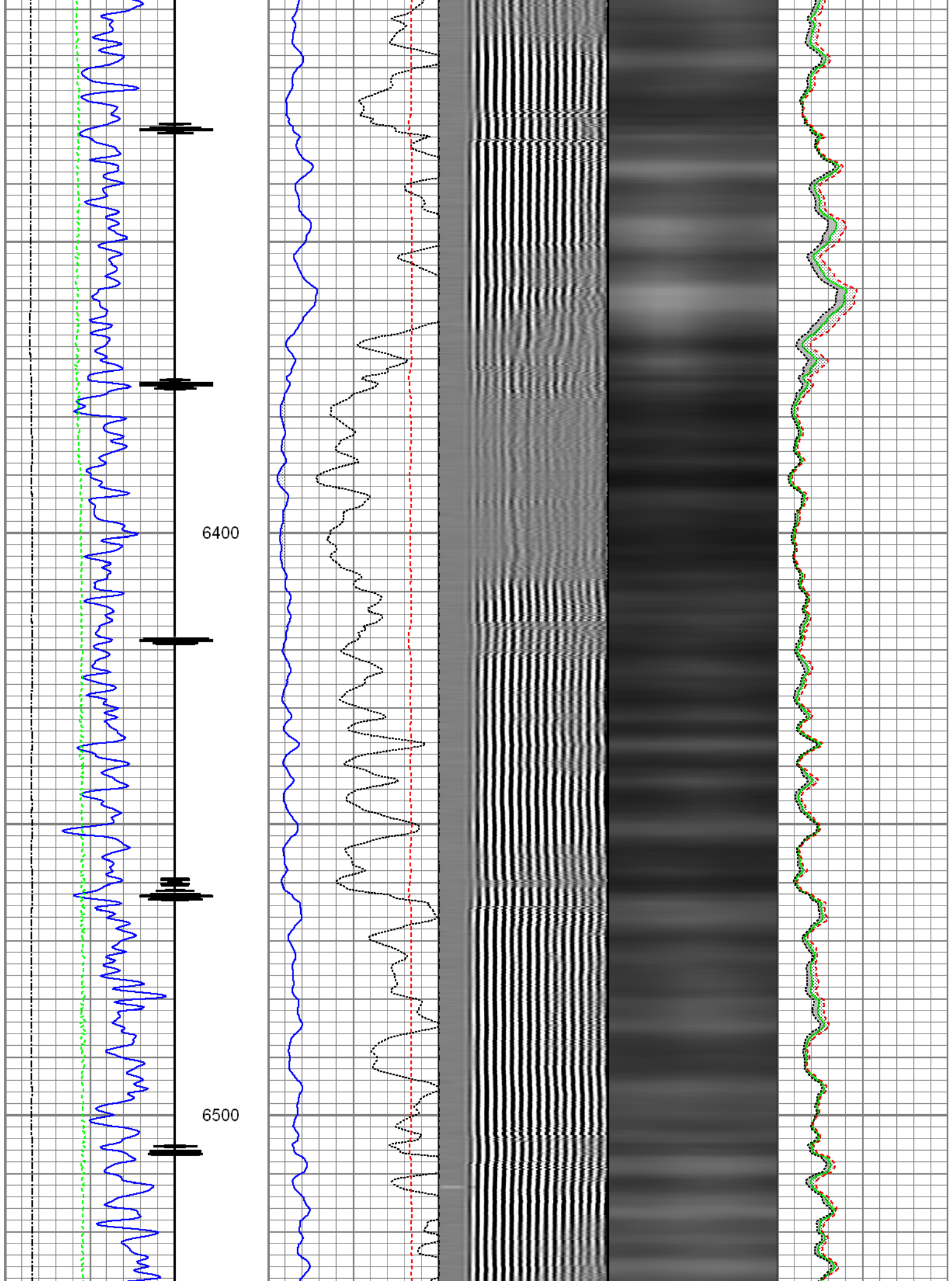




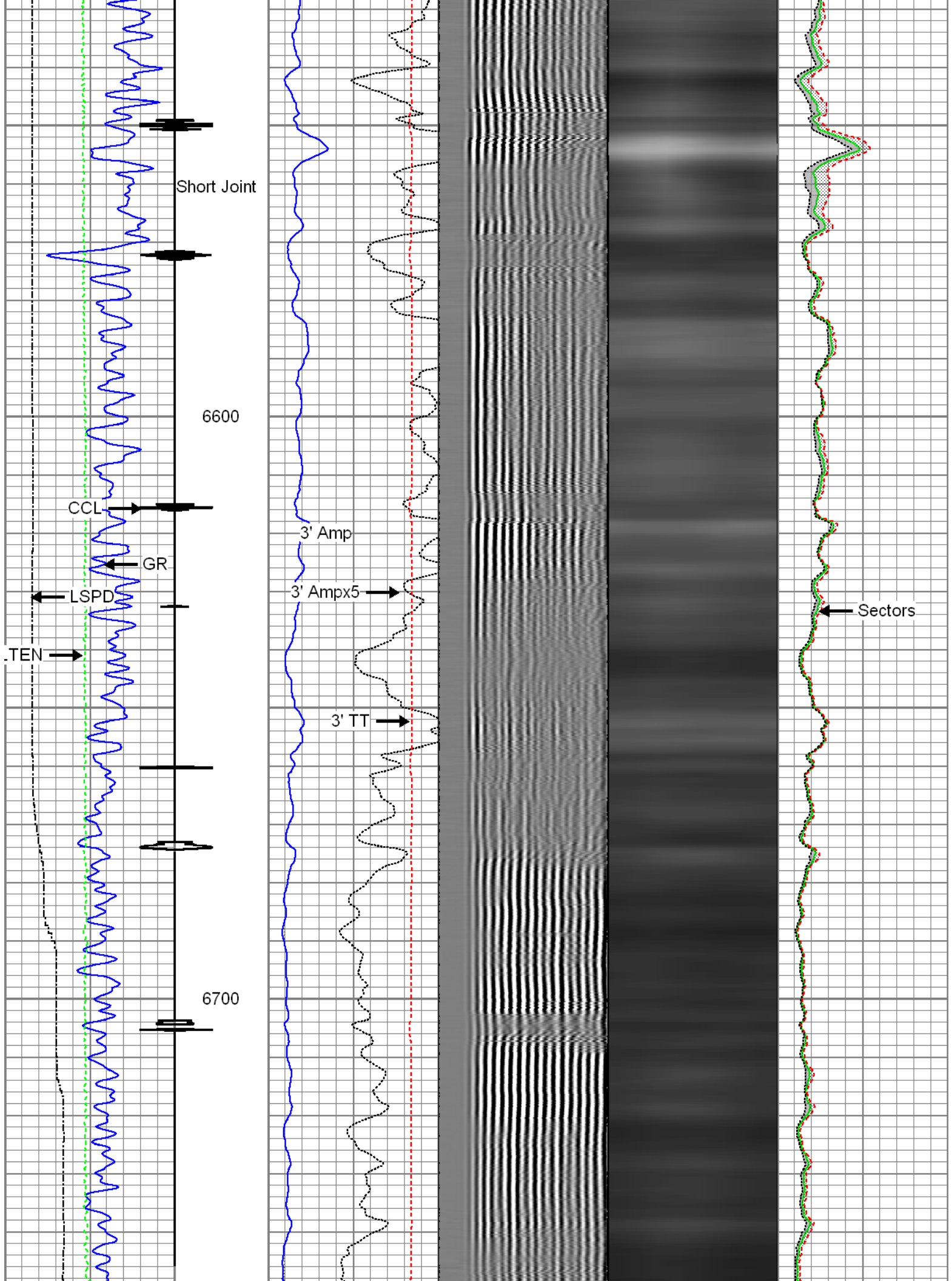




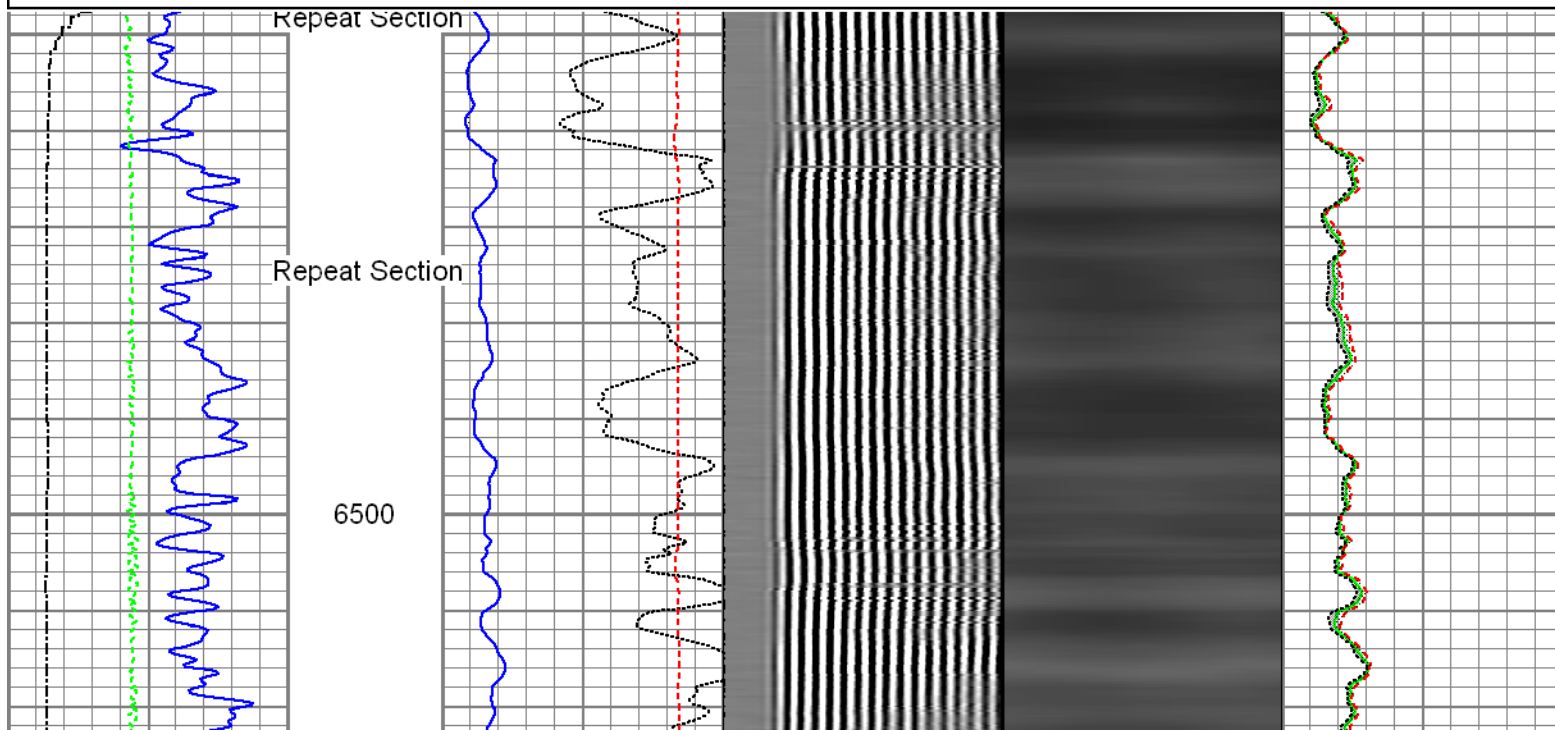
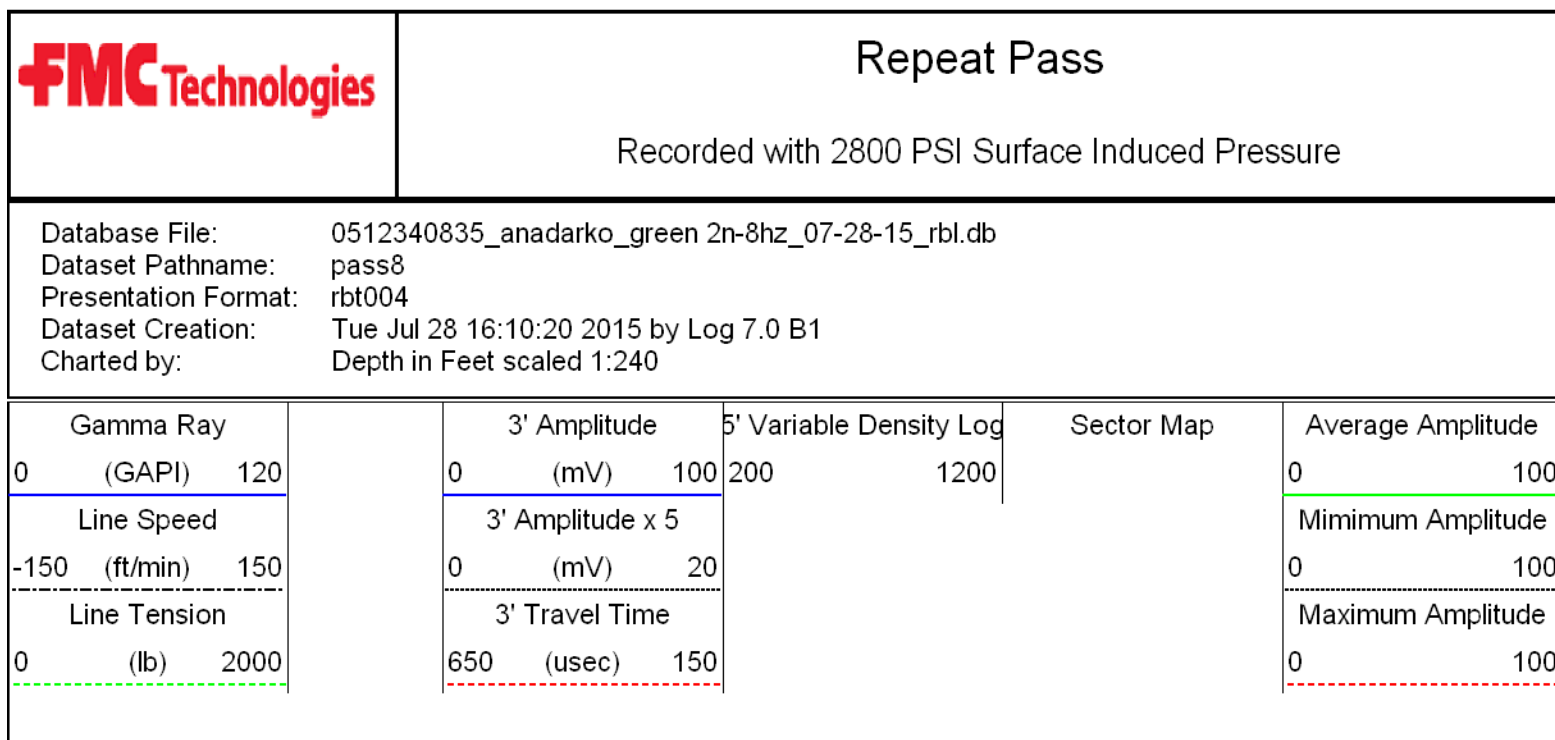
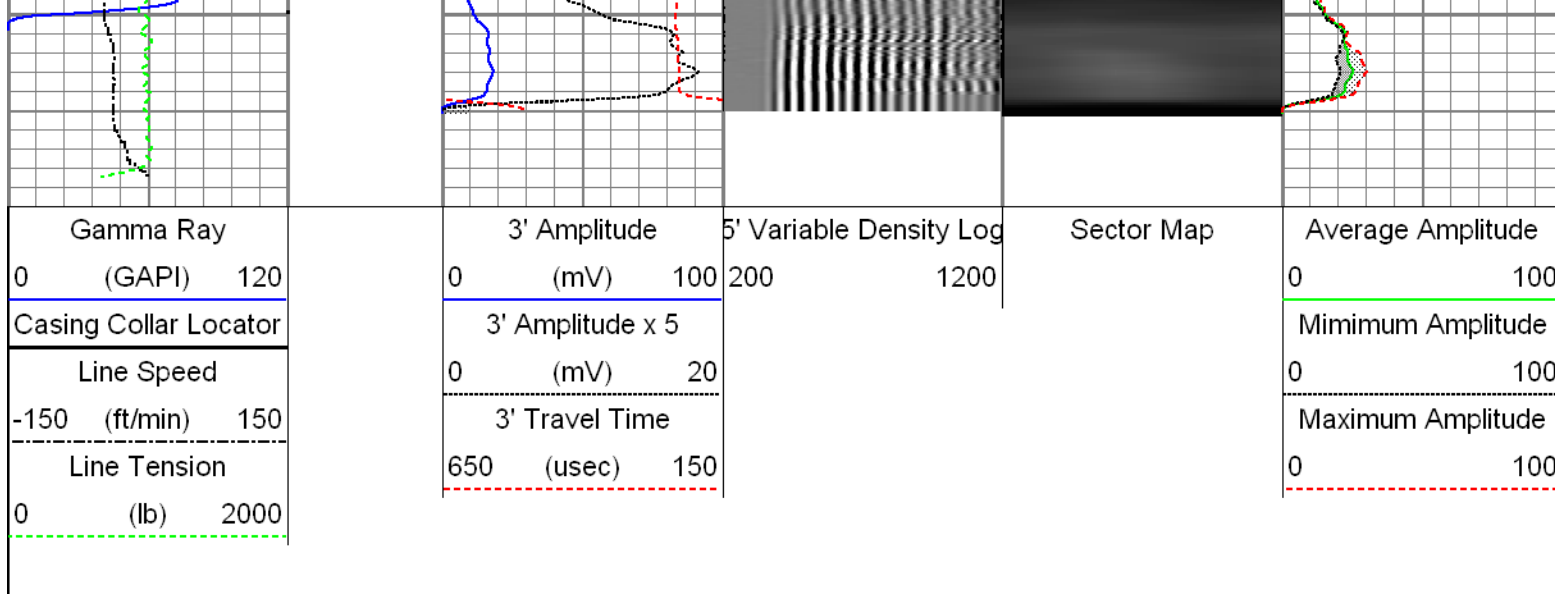


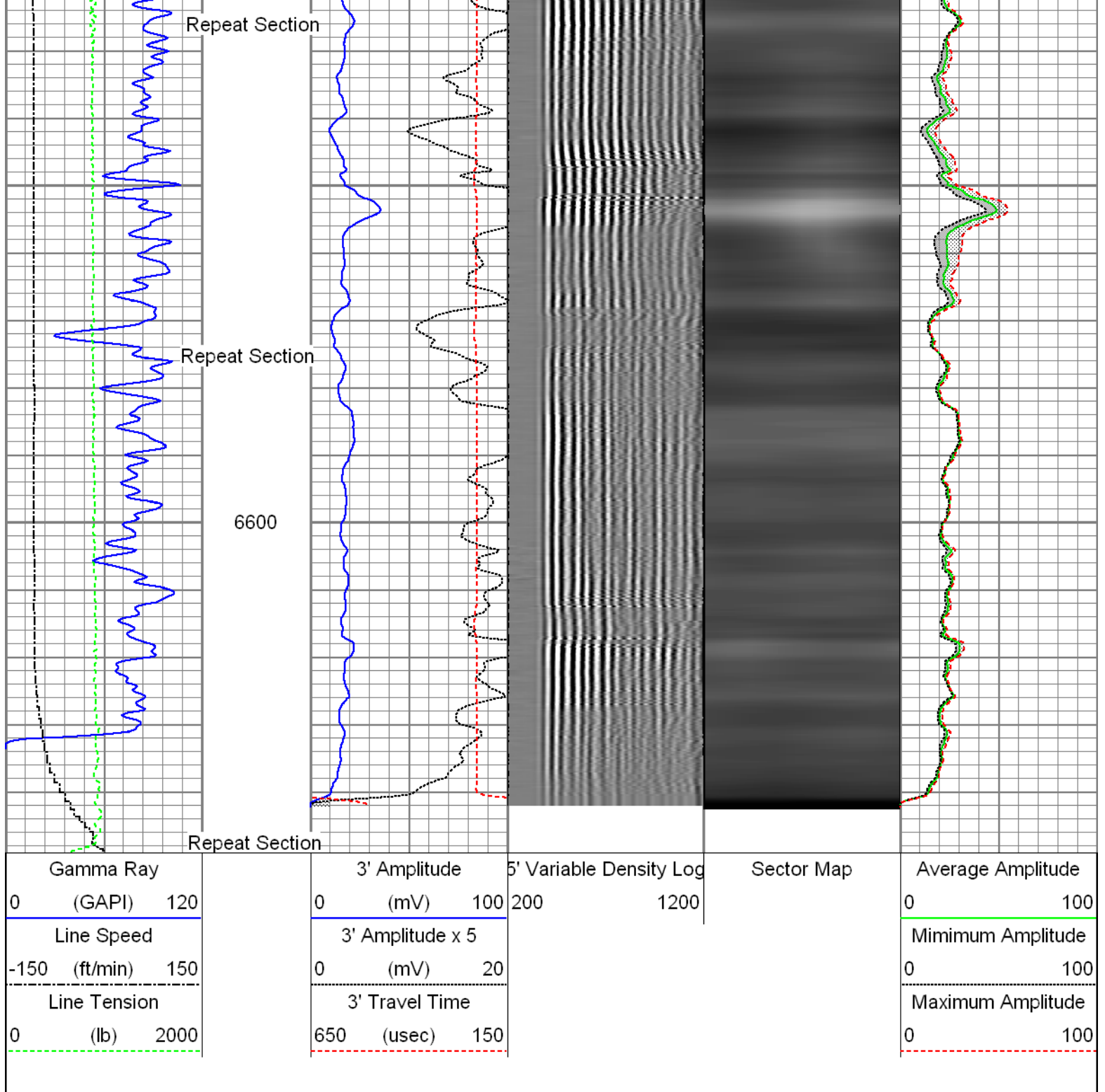













Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	16.90		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			UW_AGS-UW_AGS_001 (215017) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (218874) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10013899) Production Gamma Ray	1.93	1.69	9.50

Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)
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
WVFS1	7.90			UW_RBT-UW_RBT_004 (10013454) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
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						
WVFS5FT	6.90						
				UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
TSTAMP	0.00			UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20

Dataset: 0512340835\_Anadarko\_Green 2N-8HZ\_07-28-15\_RBL.db: field/well/run1/pass10

Total Length: 21.15 ft

Total Weight: 262.20 lb

O.D. 3.13 in

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.867	0.000	71.921	83.324	-0.305
5FT	-0.001	0.868	0.000	71.921	82.766	0.105
S1	0.004	0.848	0.000	100.000	118.440	-0.434
S2	0.002	0.891	0.000	100.000	112.488	-0.192
S3	0.002	0.922	0.000	100.000	108.711	-0.265
S4	0.002	0.929	0.000	100.000	107.889	-0.242
S5	0.003	0.899	0.000	100.000	111.682	-0.365
S6	0.002	0.864	0.000	100.000	115.983	-0.255
S7	0.002	0.822	0.000	100.000	122.054	-0.298
S8	0.003	0.821	0.000	100.000	122.271	-0.351

## 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 2N-8HZ
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County	Weld
State	Colorado