



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil and Gas Onshore LP		
Well	Carter 35N-33HZ		
Field	Wattenberg		
County	Weld		
State	Colorado		
Company		Kerr-McGee Oil and Gas Onshore LP	
Well		Carter 35N-33HZ	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-41558	Other Services
SEC 33 TWP 2N RGE 66W			JB/GR
Permanent Datum	Ground Level	Elevation	4960'
Log Measured From	Kelly Bushing	16 FT	
Drilling Measured From	Kelly Bushing		
		Elevation	K.B. 4976' D.F. --- G.L. 4960'

Date	03-NOV-2015
Run Number	Two
Depth Driller	12728 FT
Depth Logger	7418 FT
Bottom Logged Interval	7414 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	233°F
Estimated Cement Top	Surface
Time Well Ready	ROA
Time Logger on Bottom	12:30 PM
Equipment Number	HD-0255
Location	Ft. Lupton, CO
Recorded By	R. Cameron
Witnessed By	Steve Vigil

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	J55 LT&C	Surface	1881 FT		
Intermediate #1	5 1/2	17	HCP-110 LT&C	Surface	12728 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 Casing Tally reported Marker Joint at 6803 FT
Adjusted log +6 FT to correlate with Marker Joint
Gauge Ring/Junk Basket ran to 7418 FT with no debris found
Log ran from 7418 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.!!

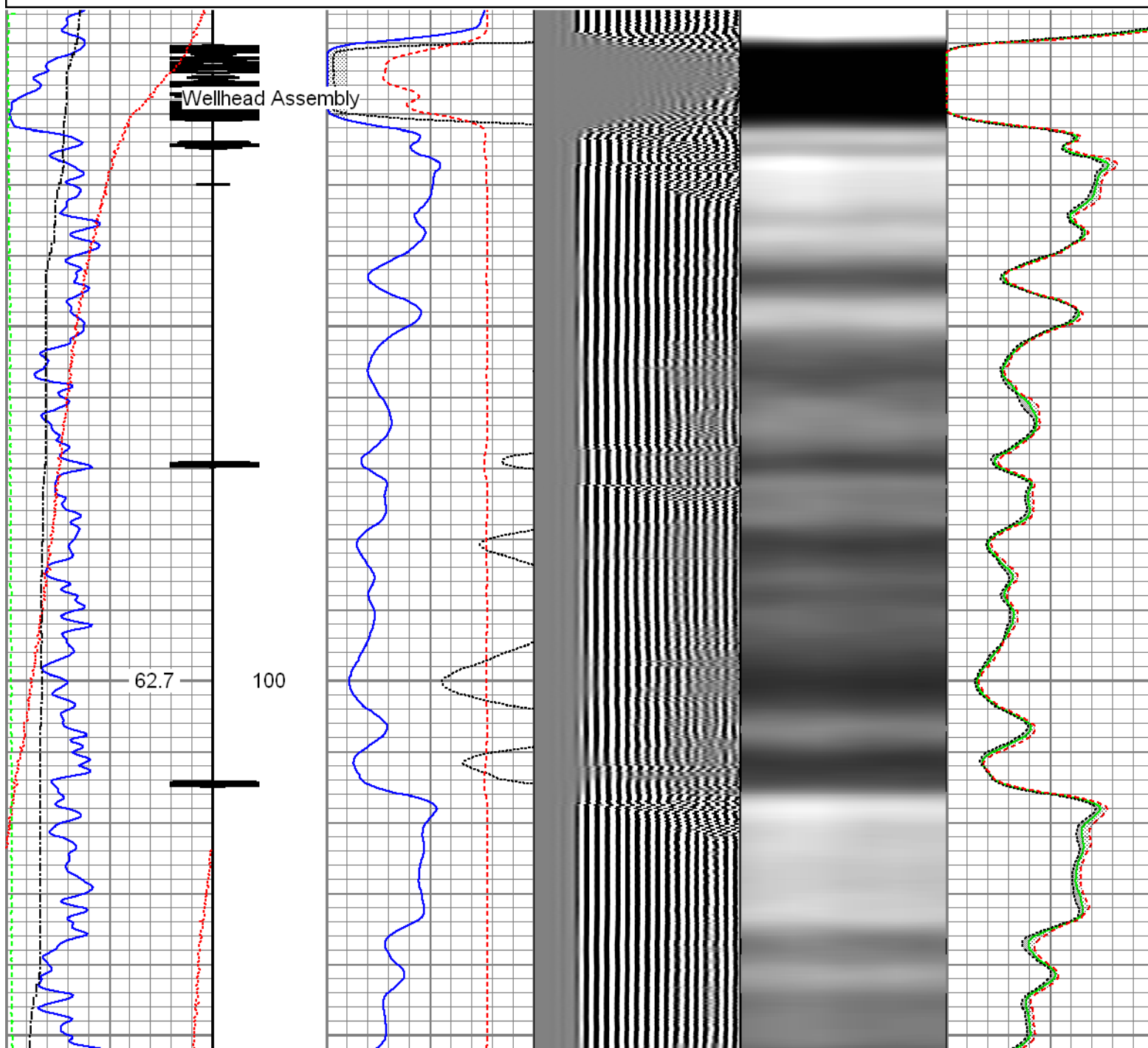


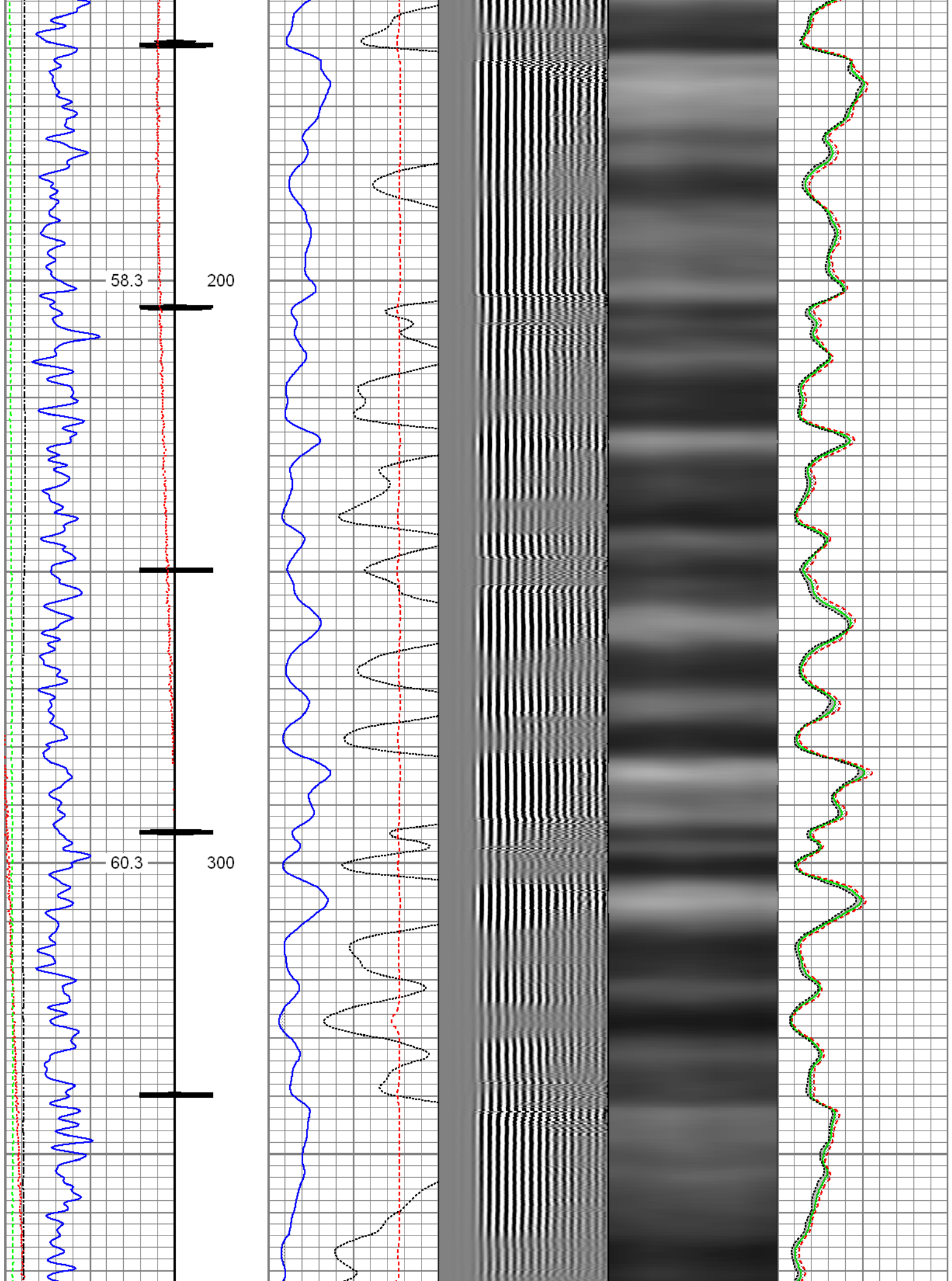
Main Pass

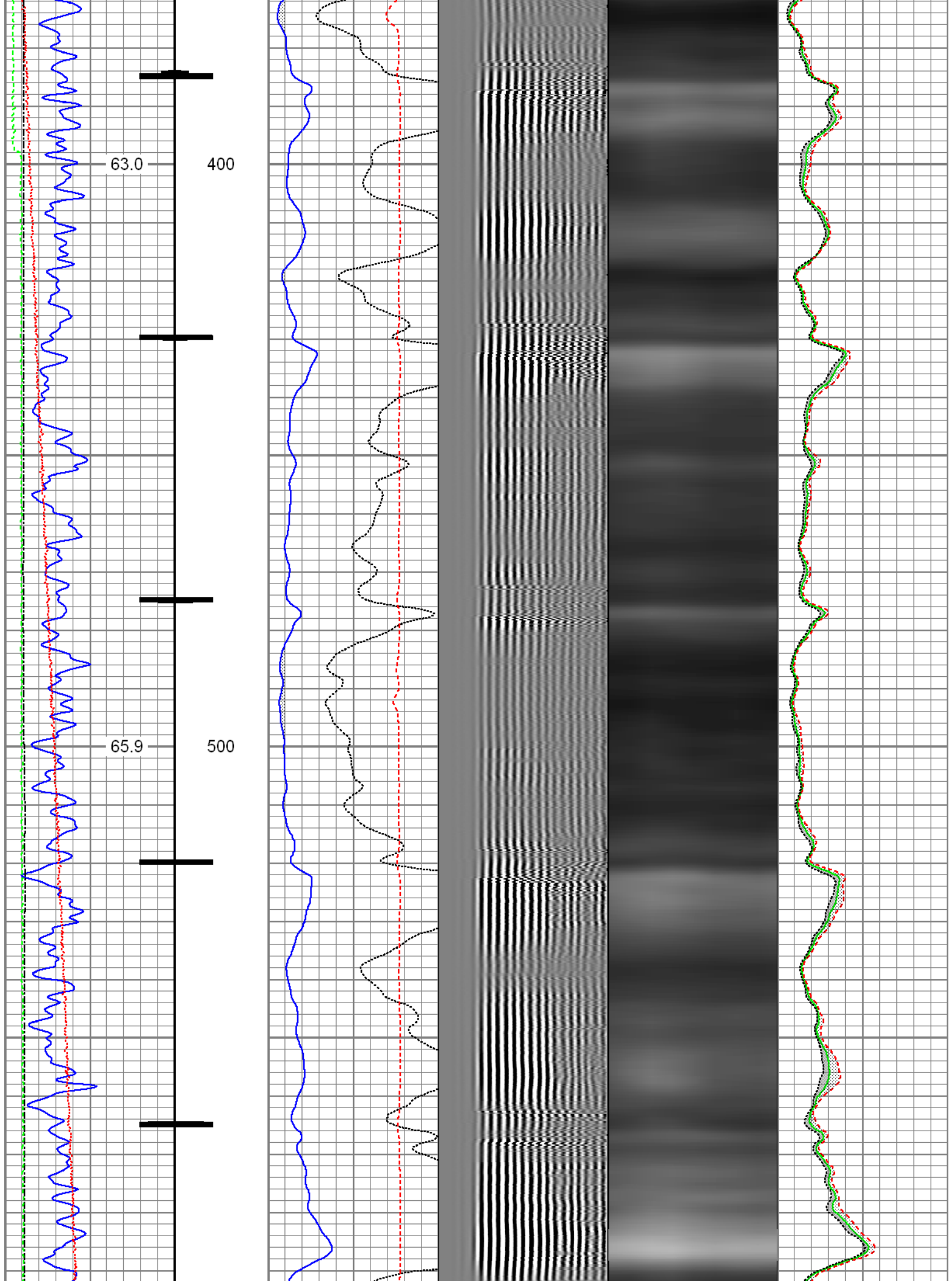
Recorded with 2800 PSI Surface Induced Pressure

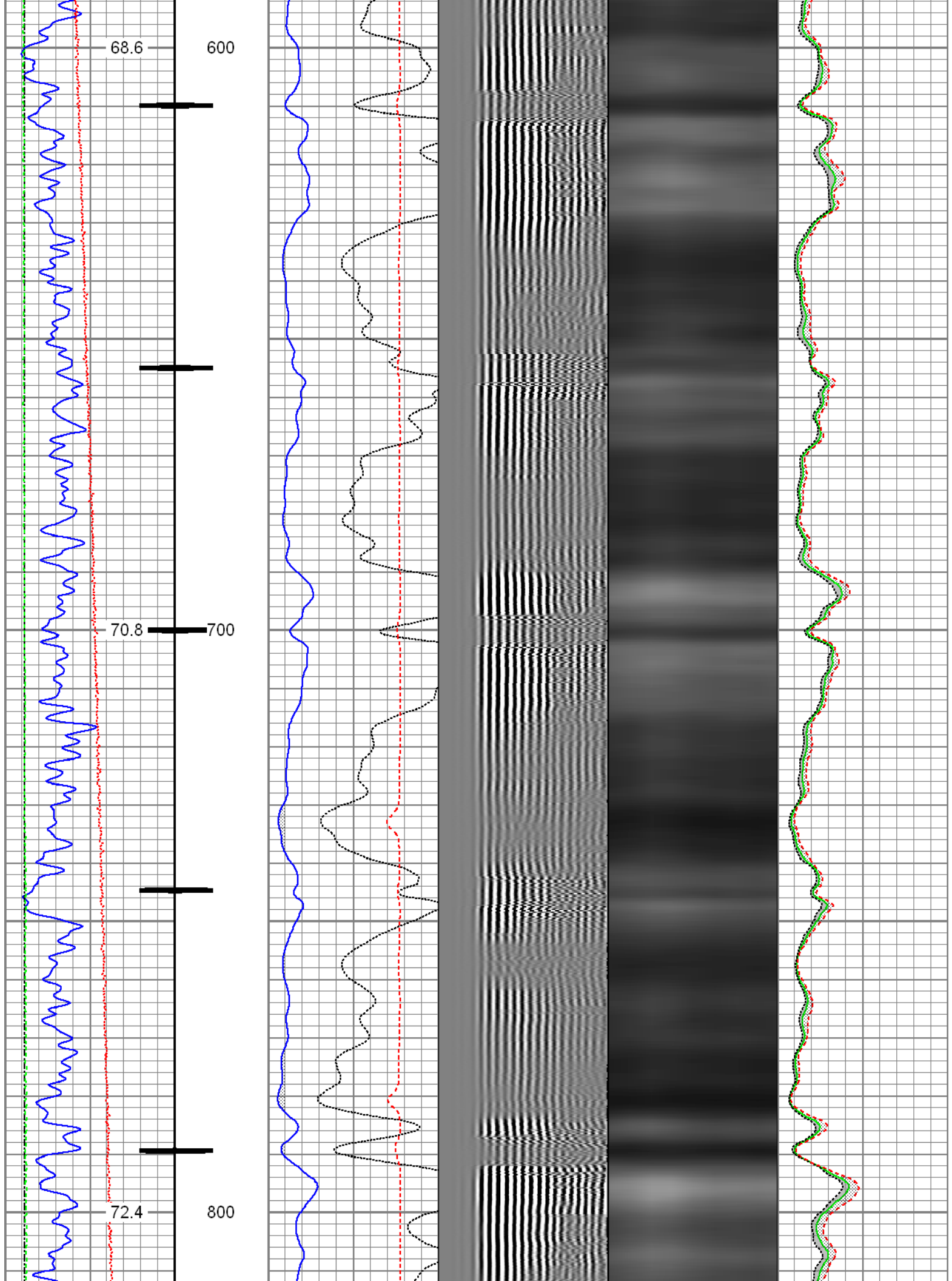
Database File: c:\warrior\data\0512341558_anadarko_carter 35n-33hz_11-03-15_rbl\0512341558_anadarko_carter
Dataset Pathname: pass13.1
Presentation Format: radii
Dataset Creation: Thu Nov 05 09:28:16 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

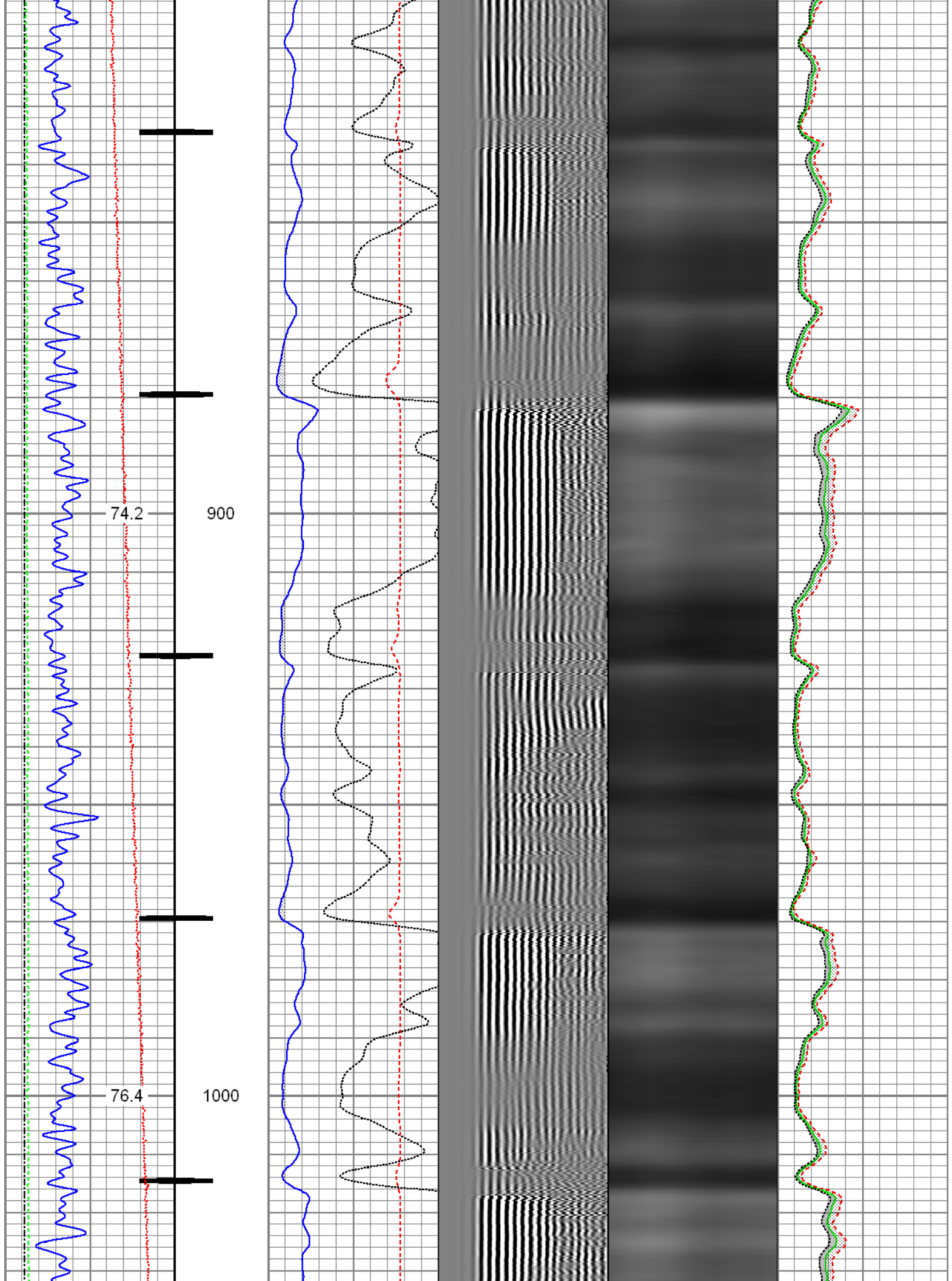
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

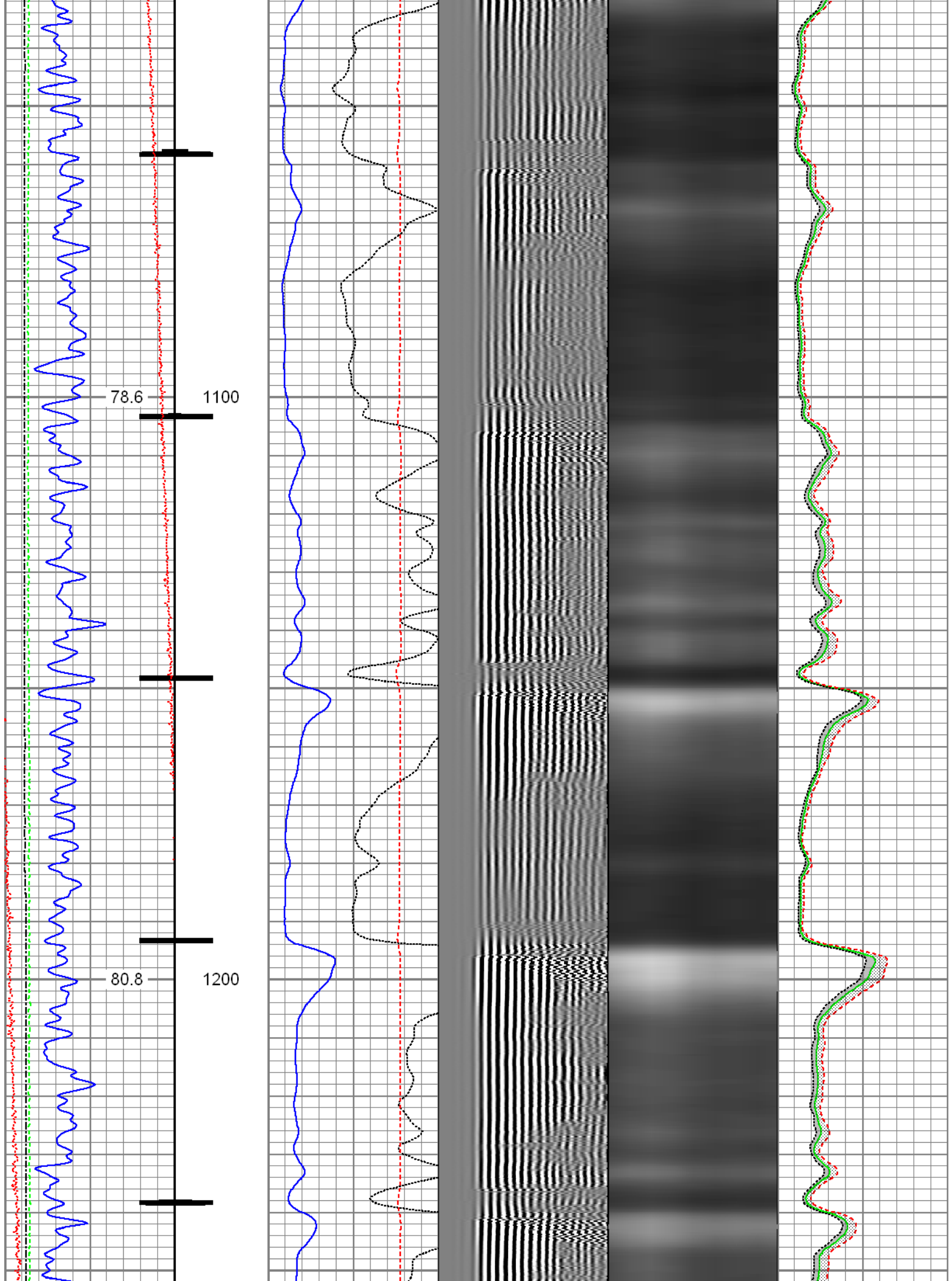


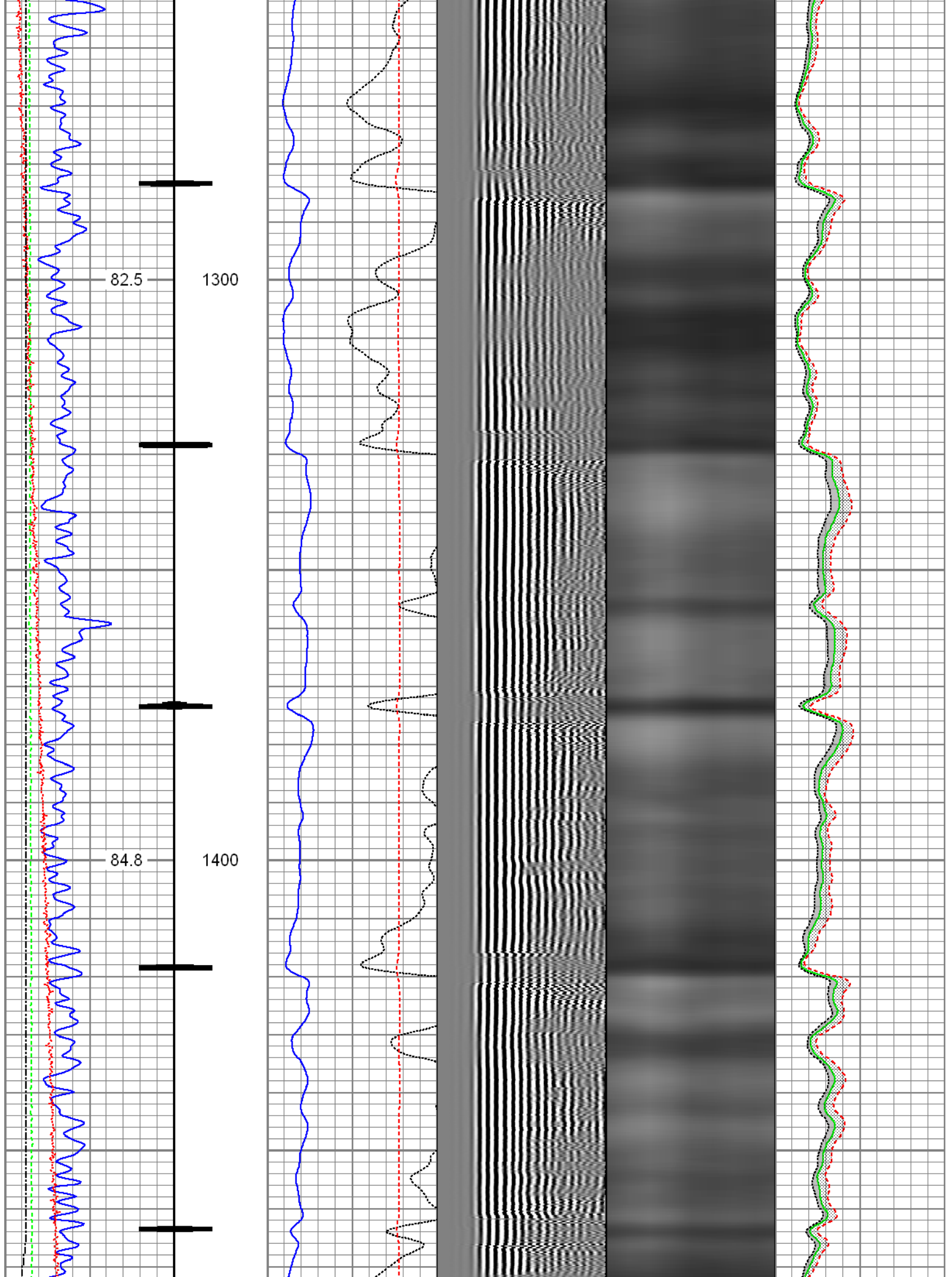


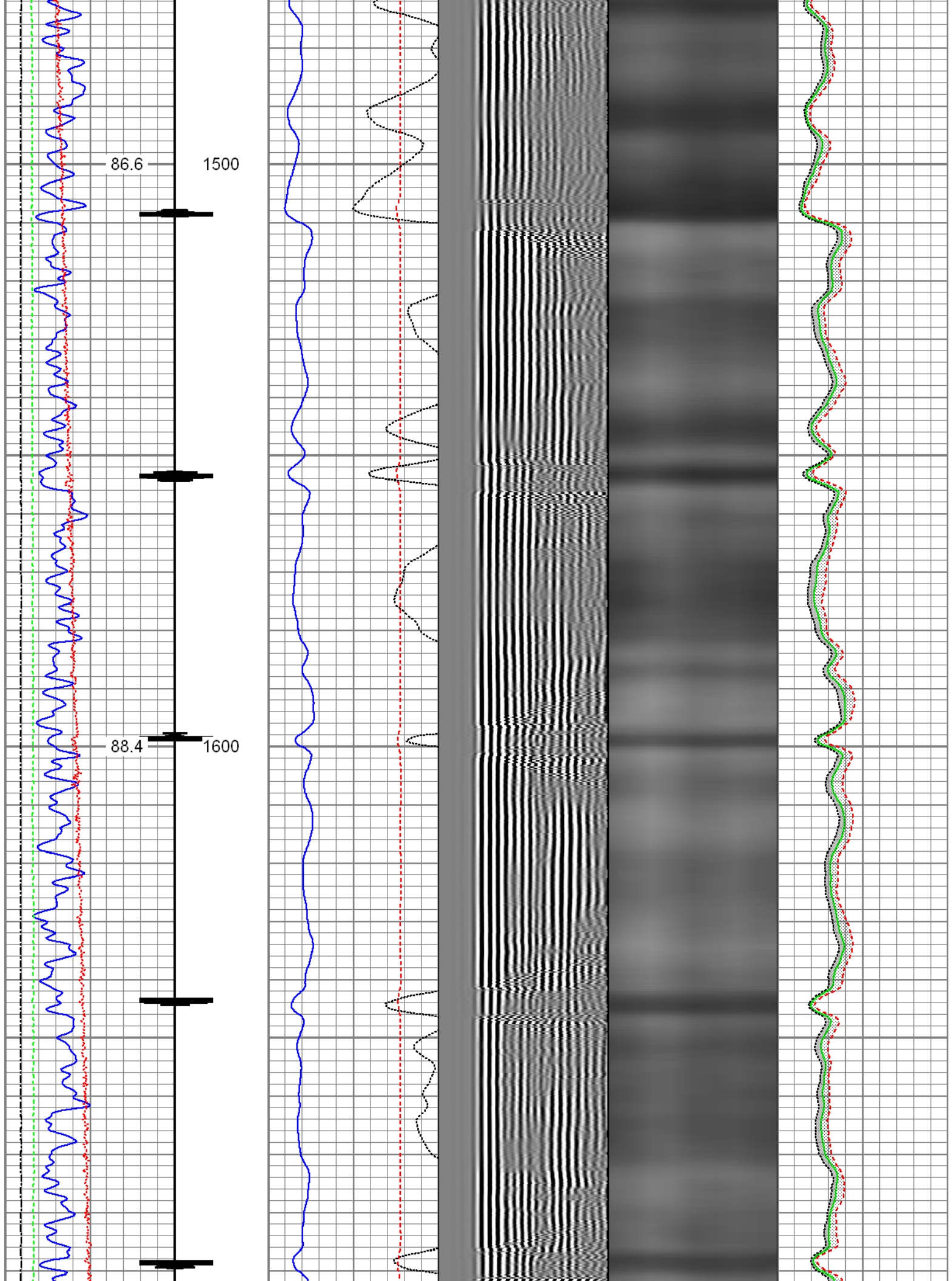


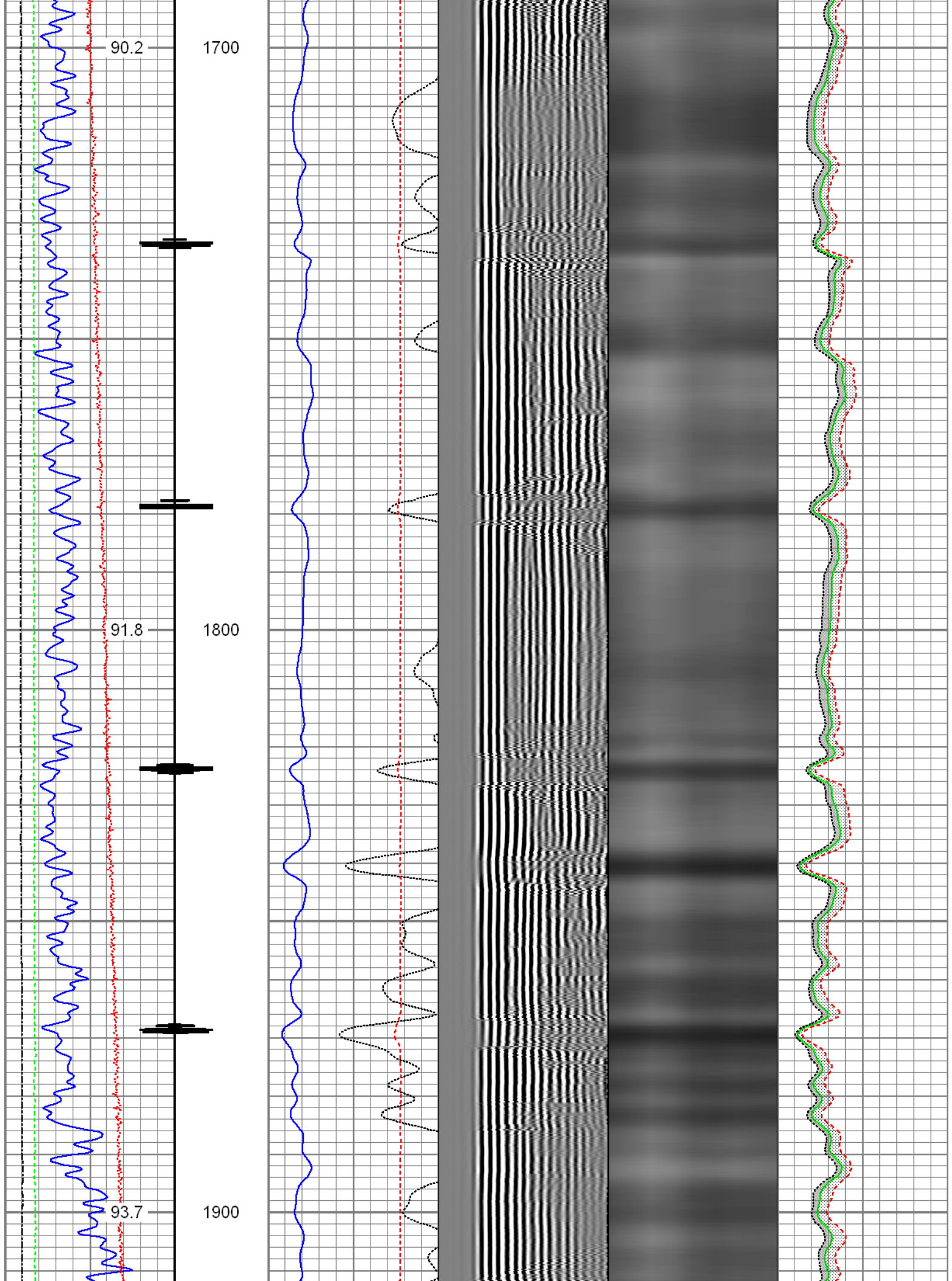


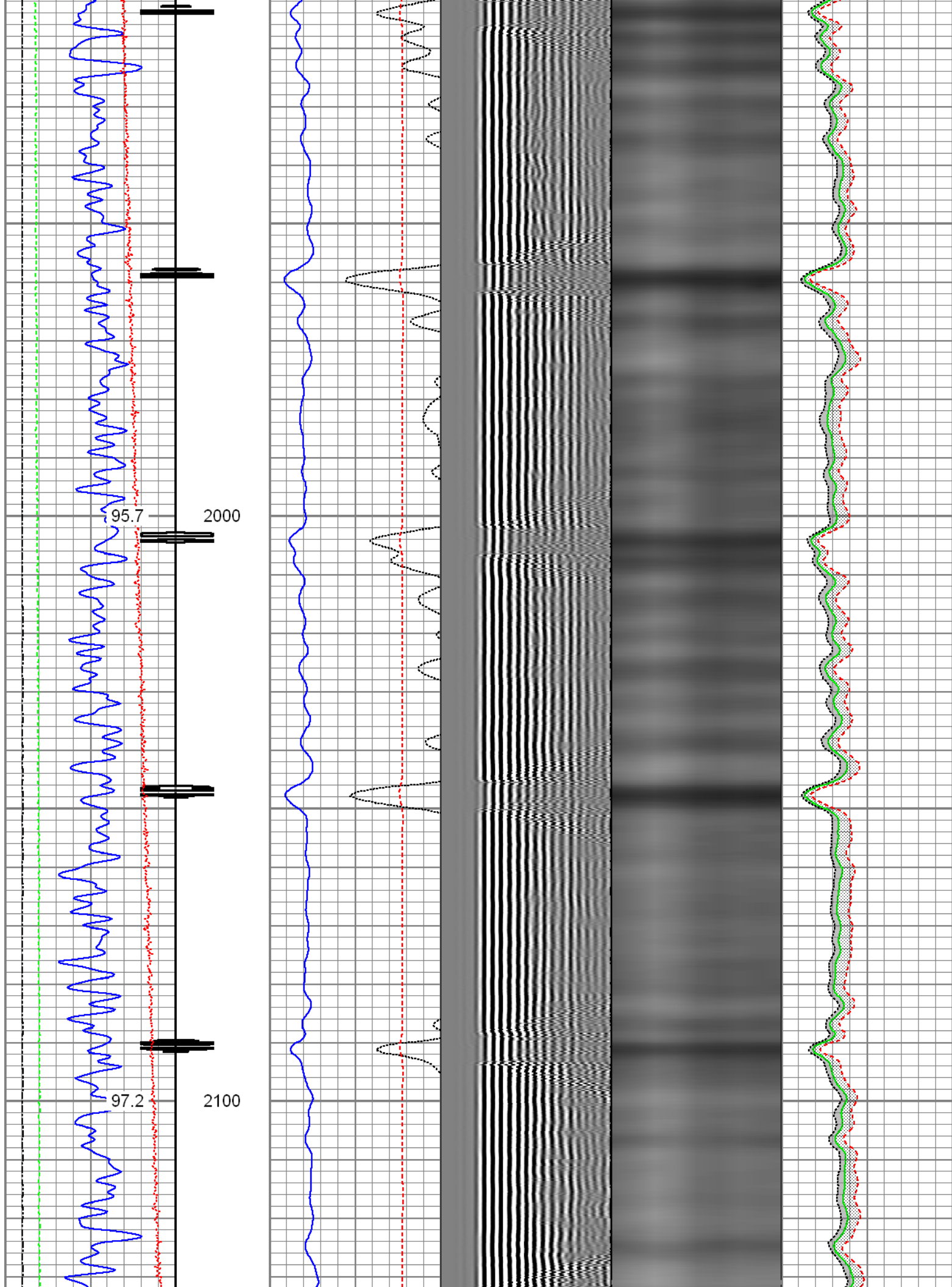


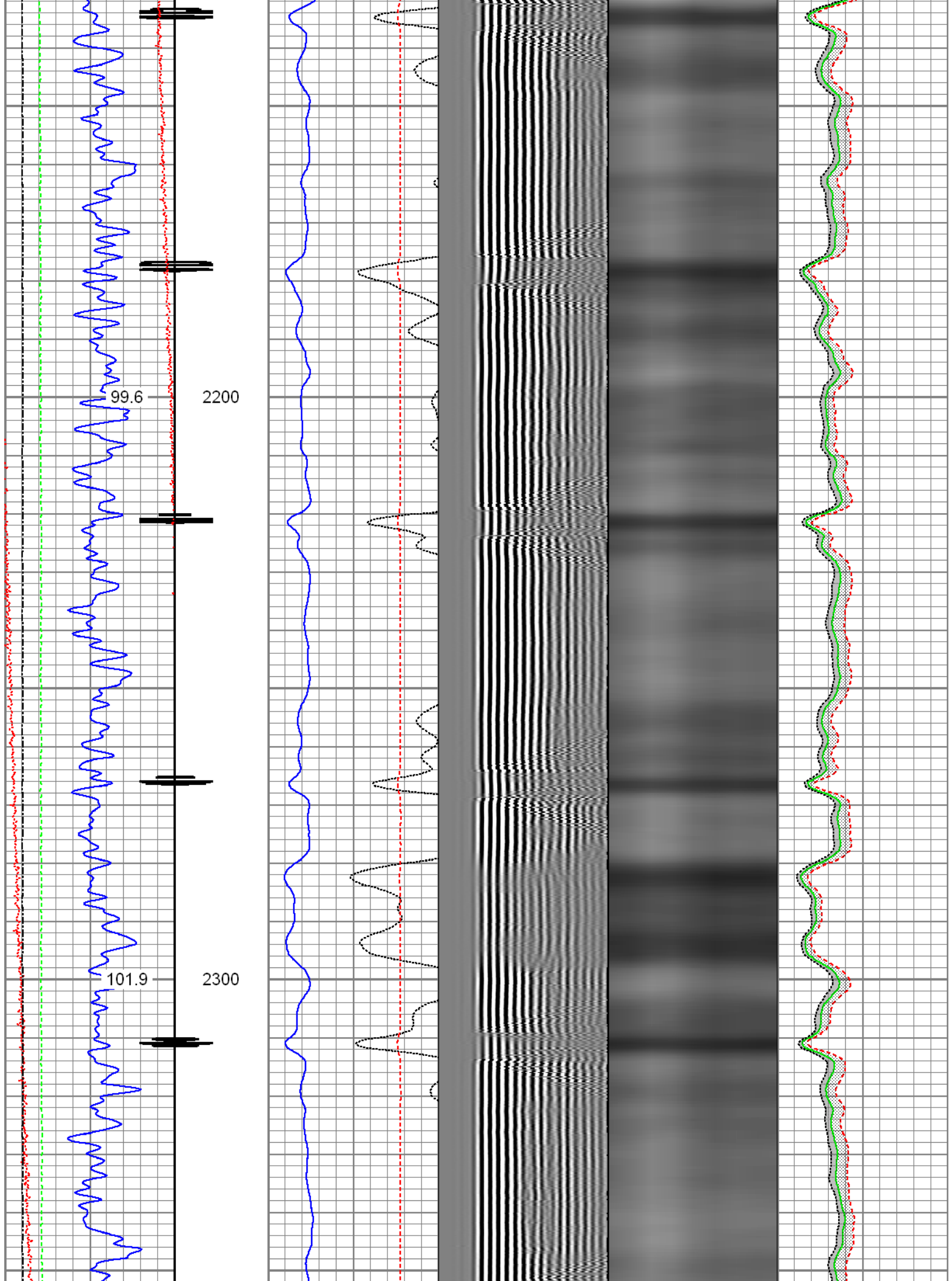


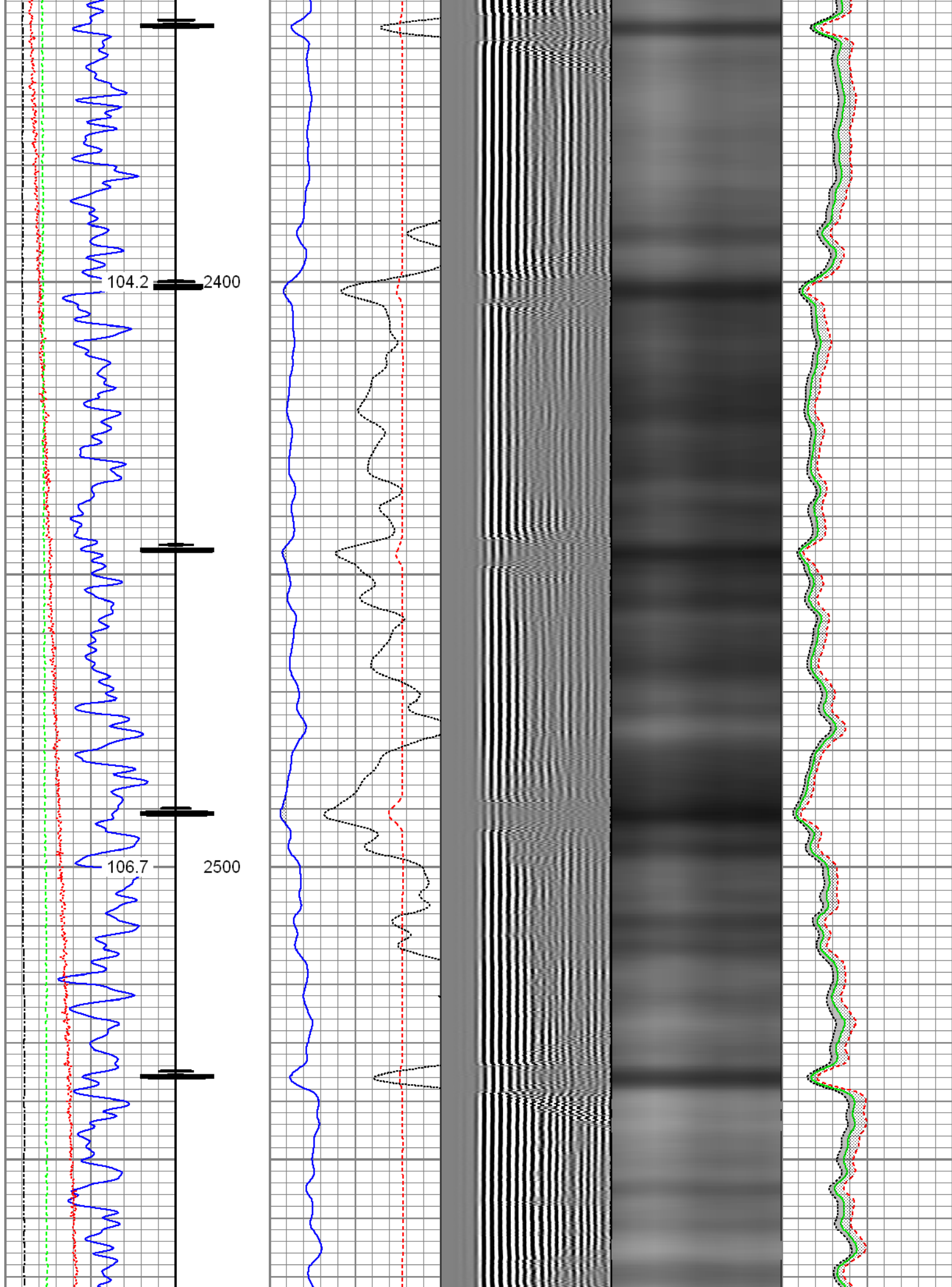


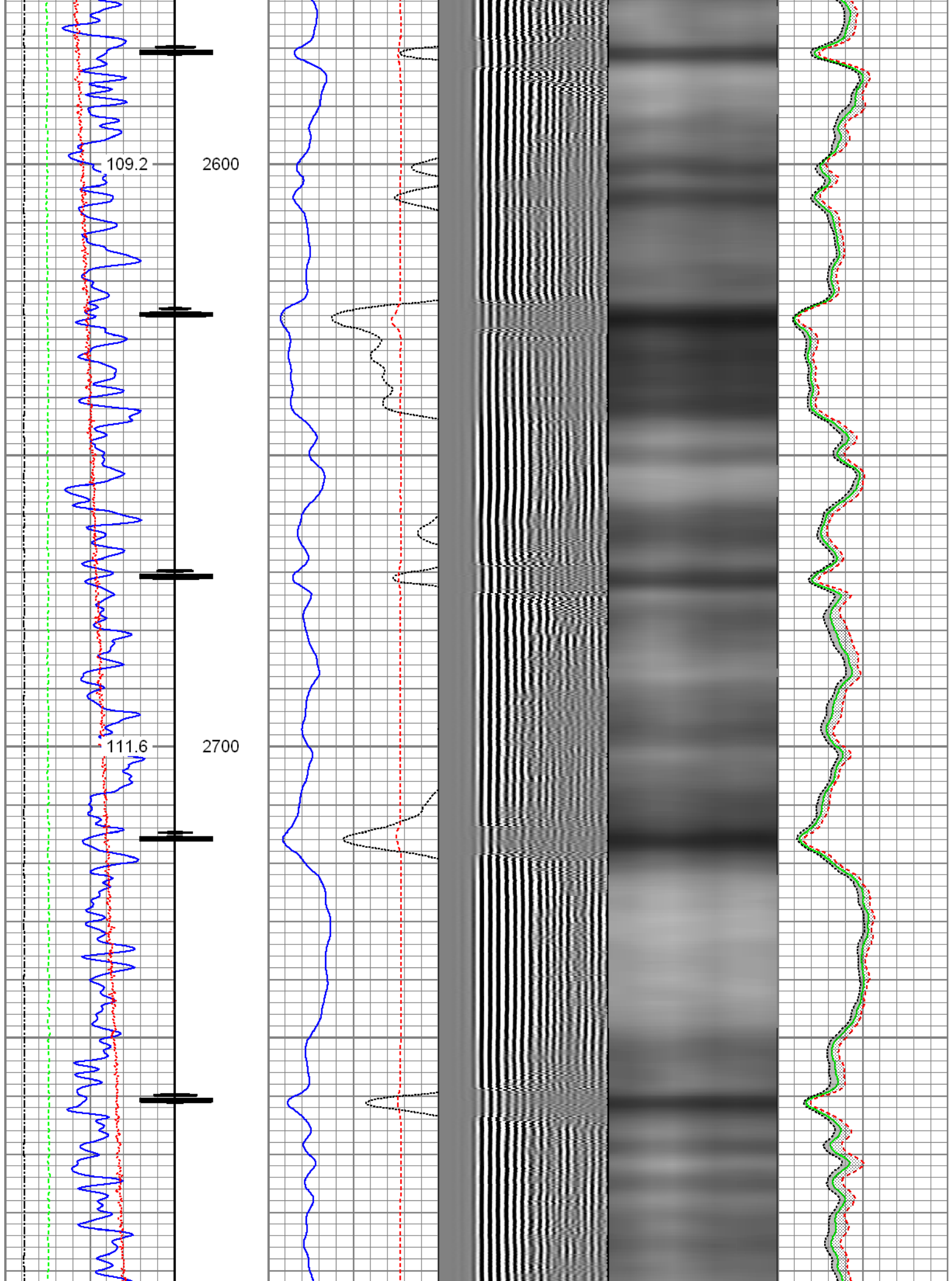


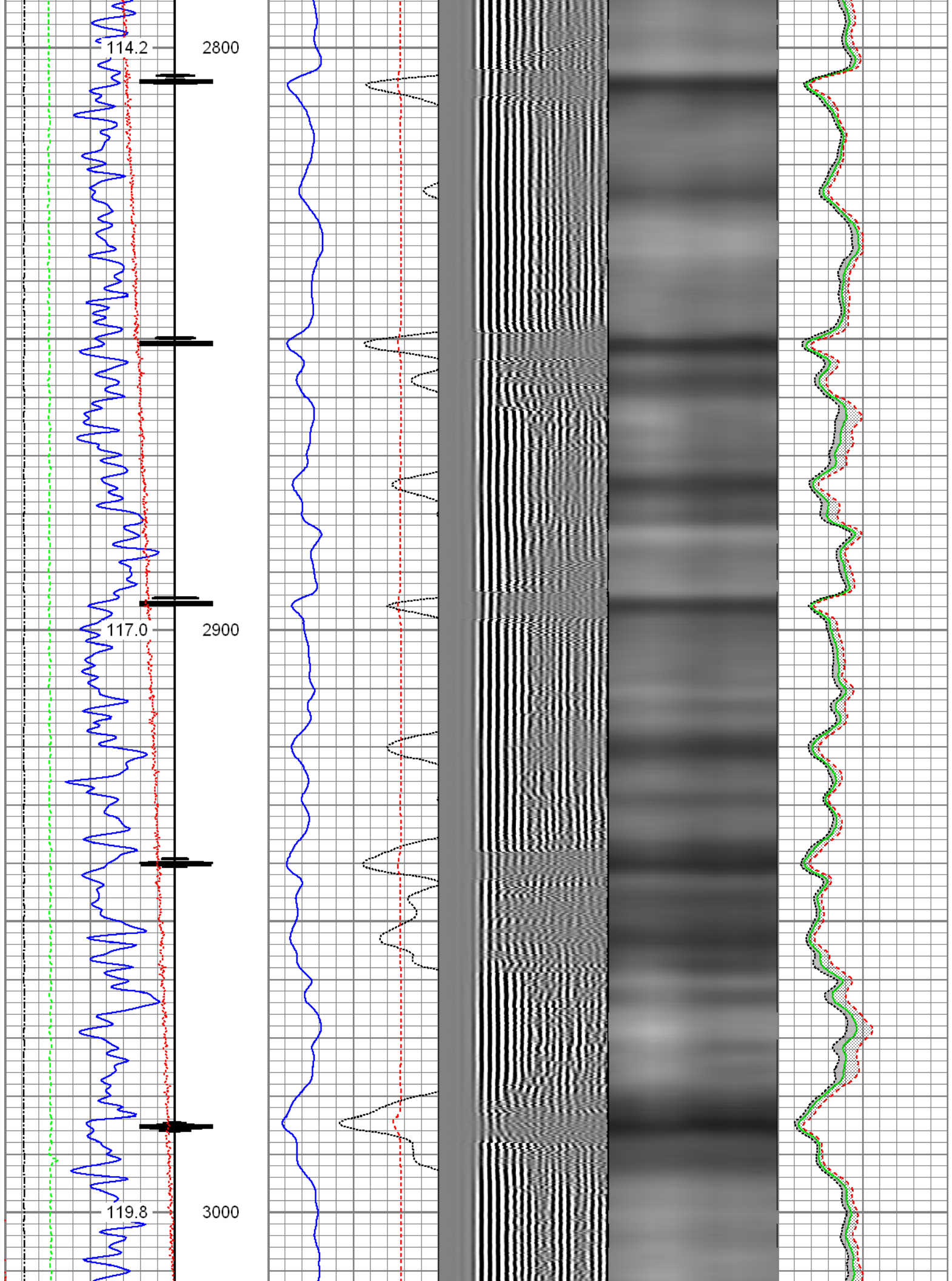


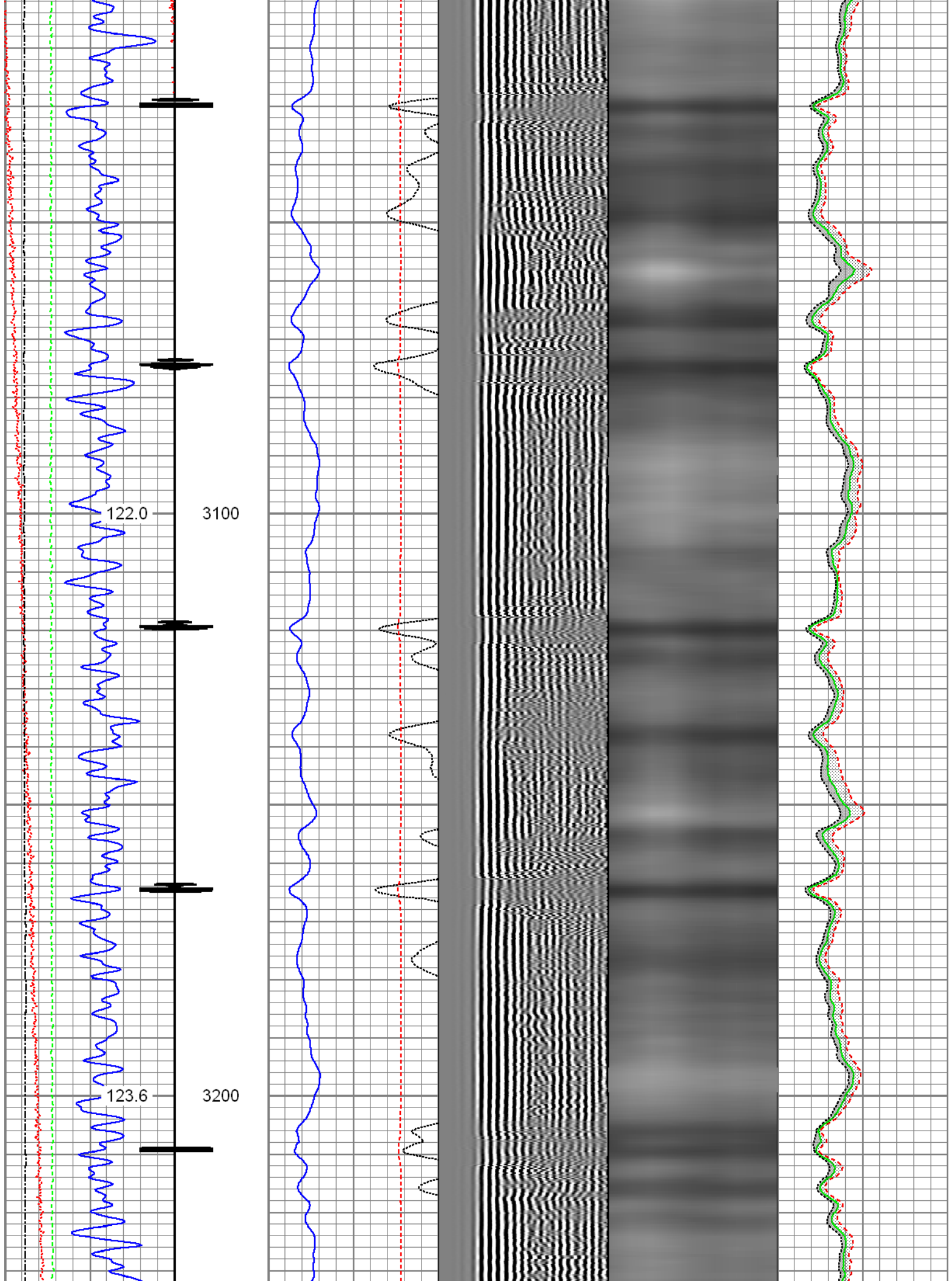


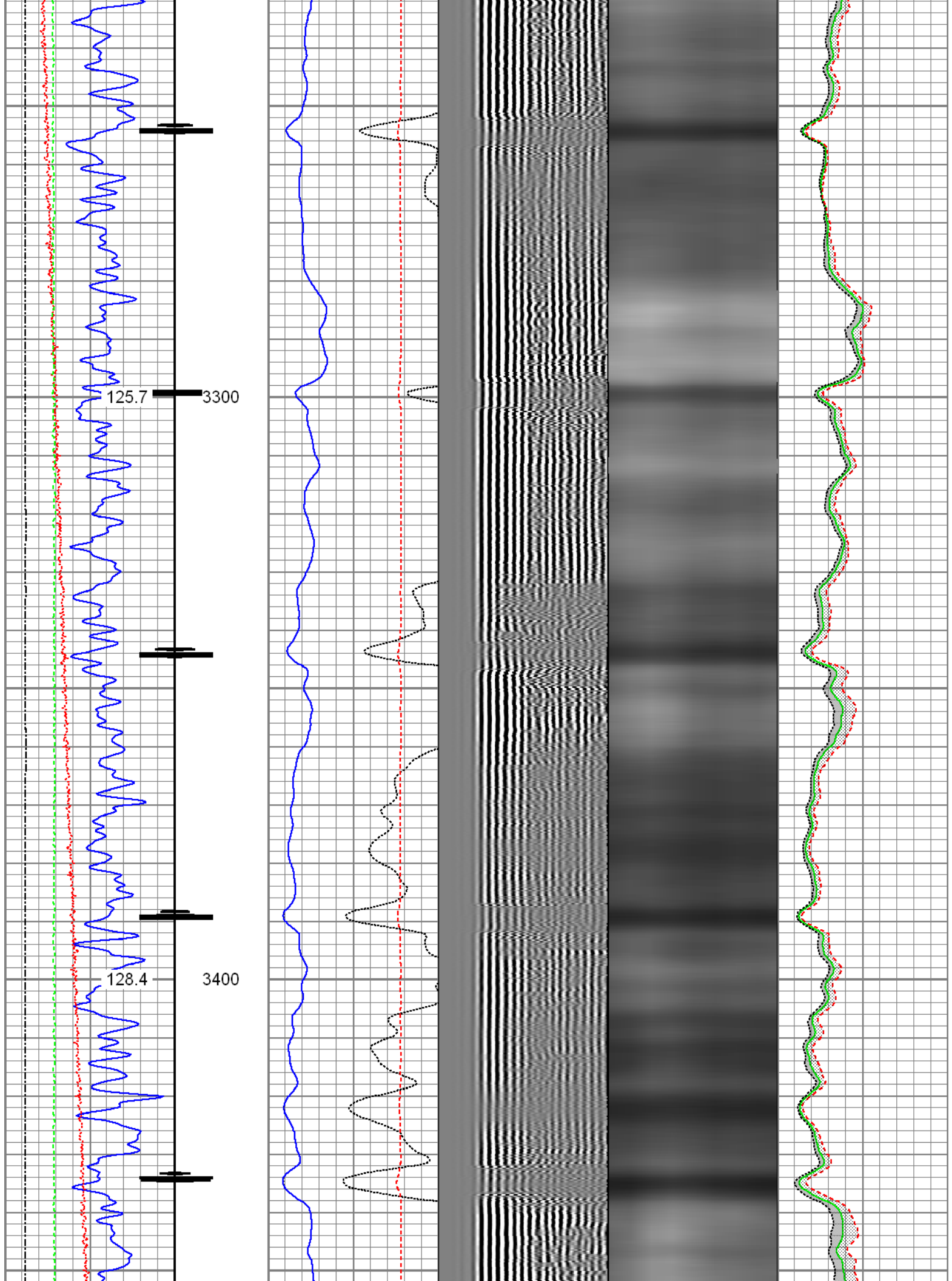


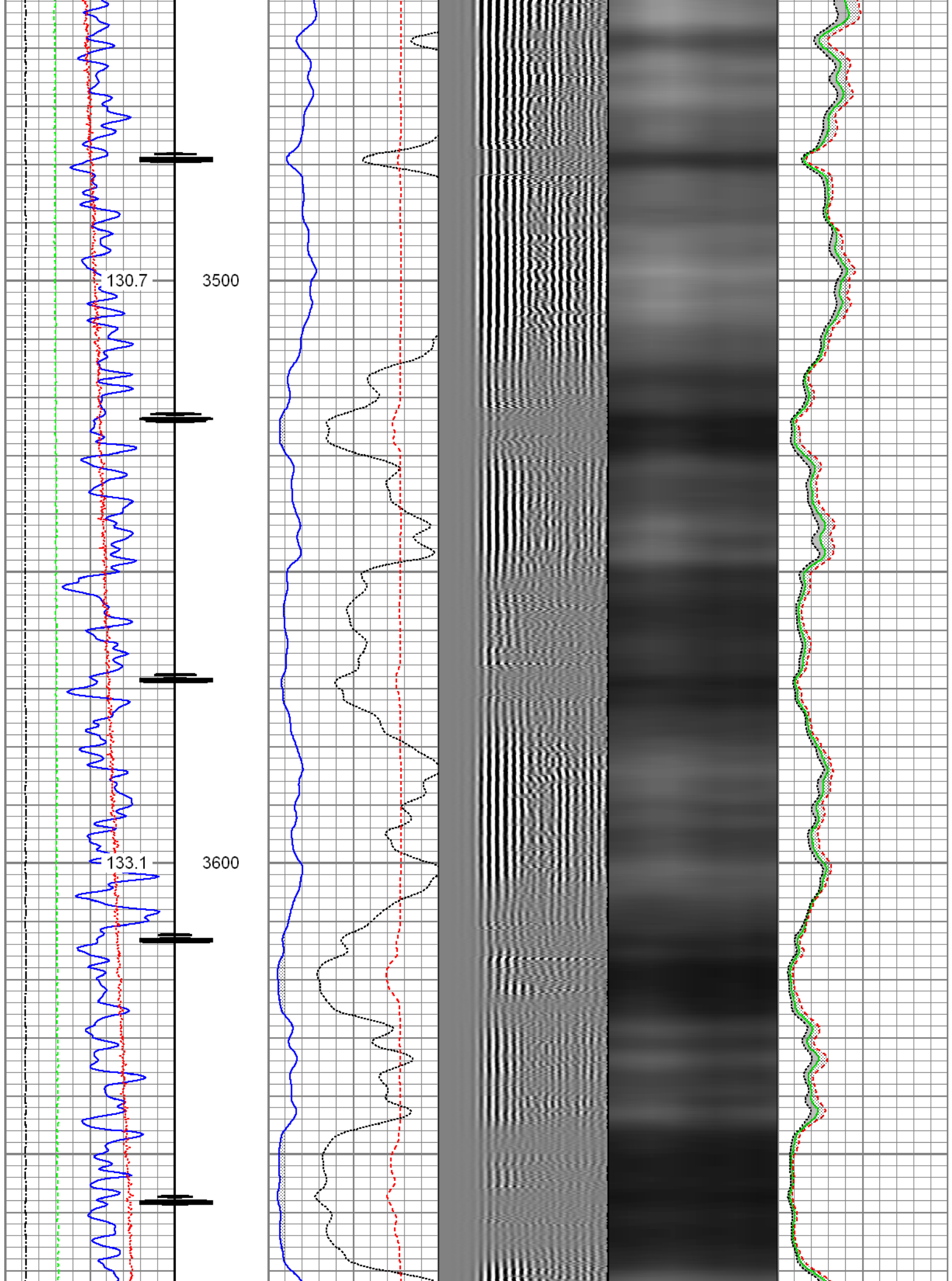


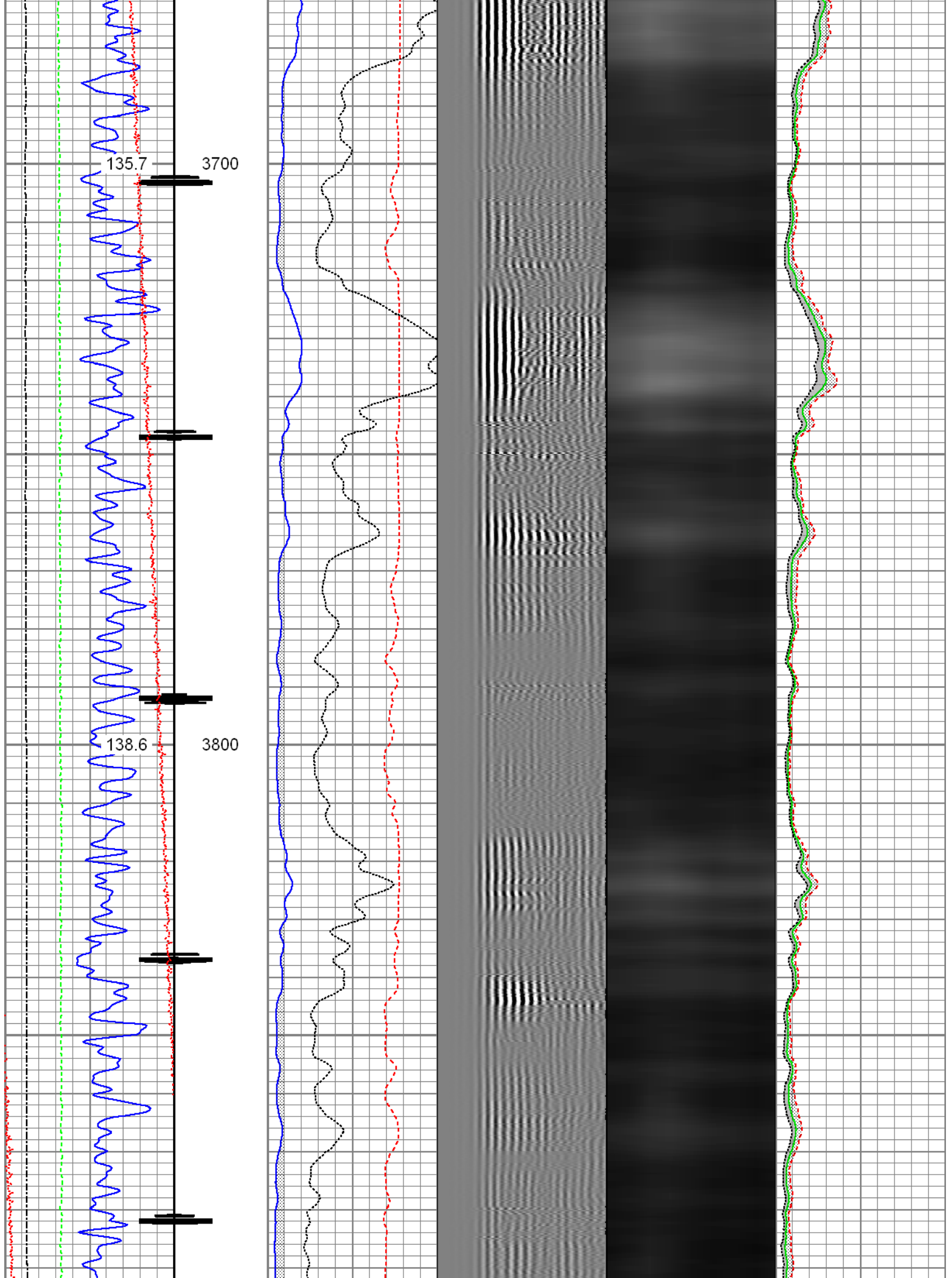


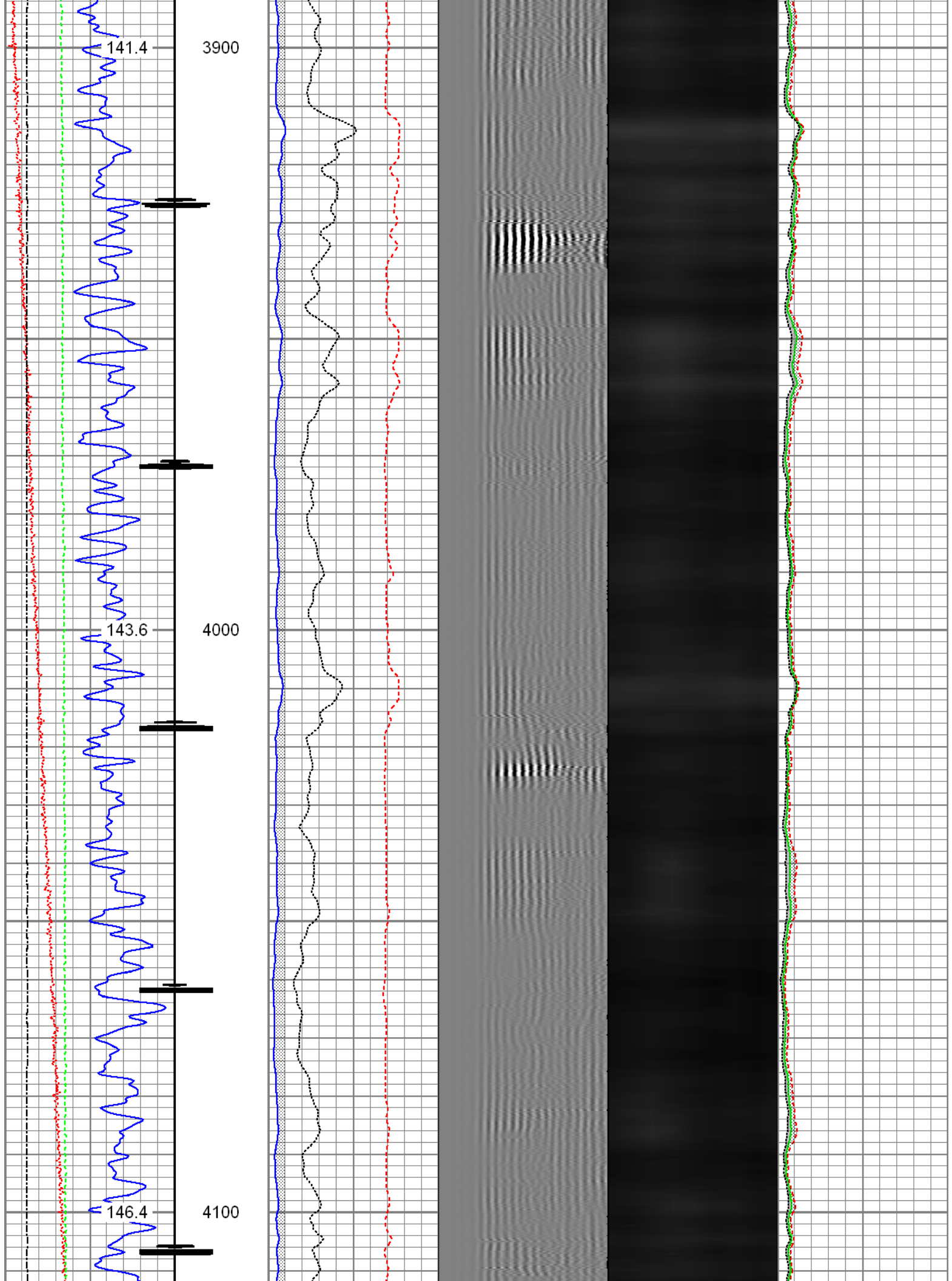


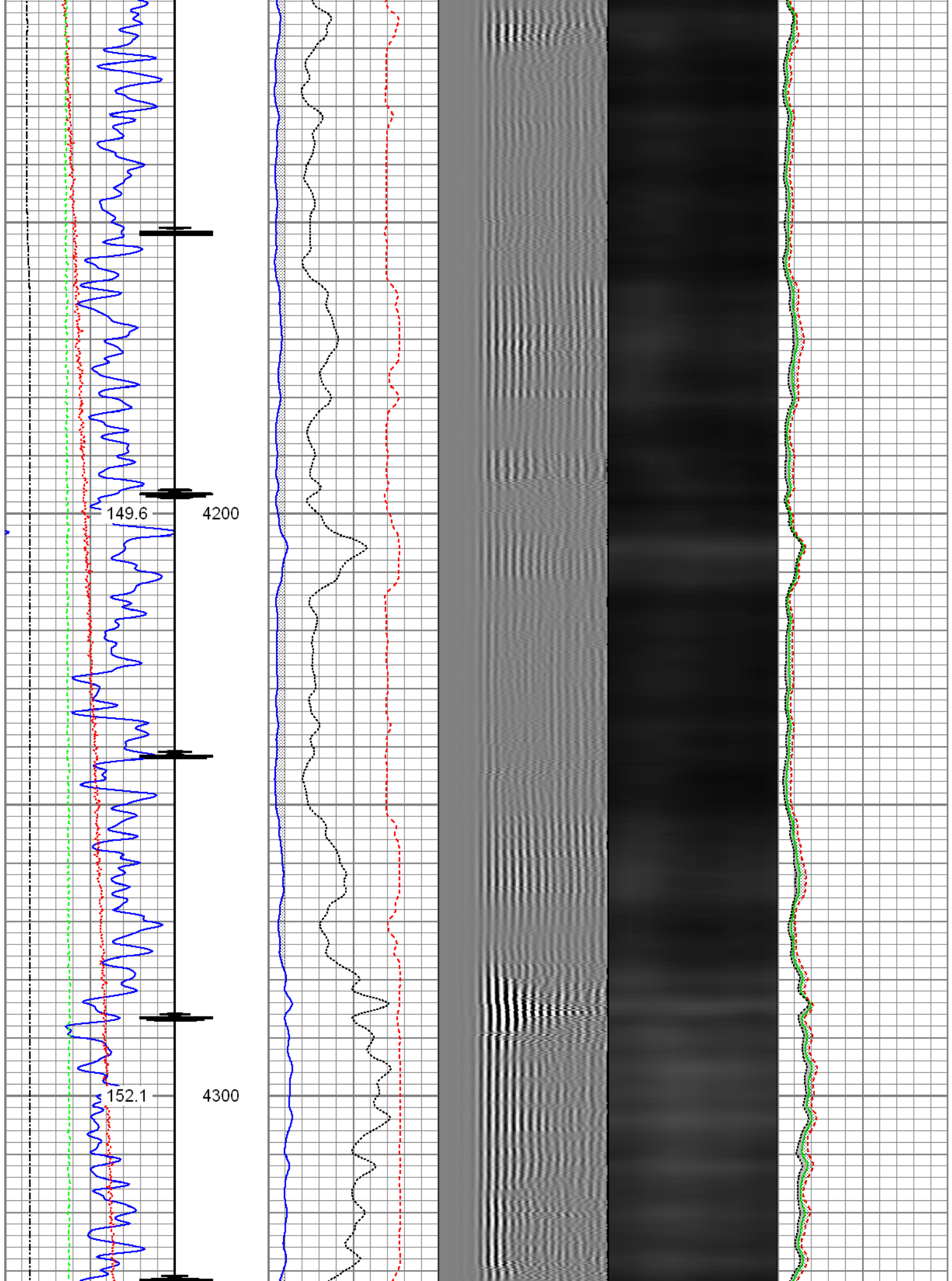


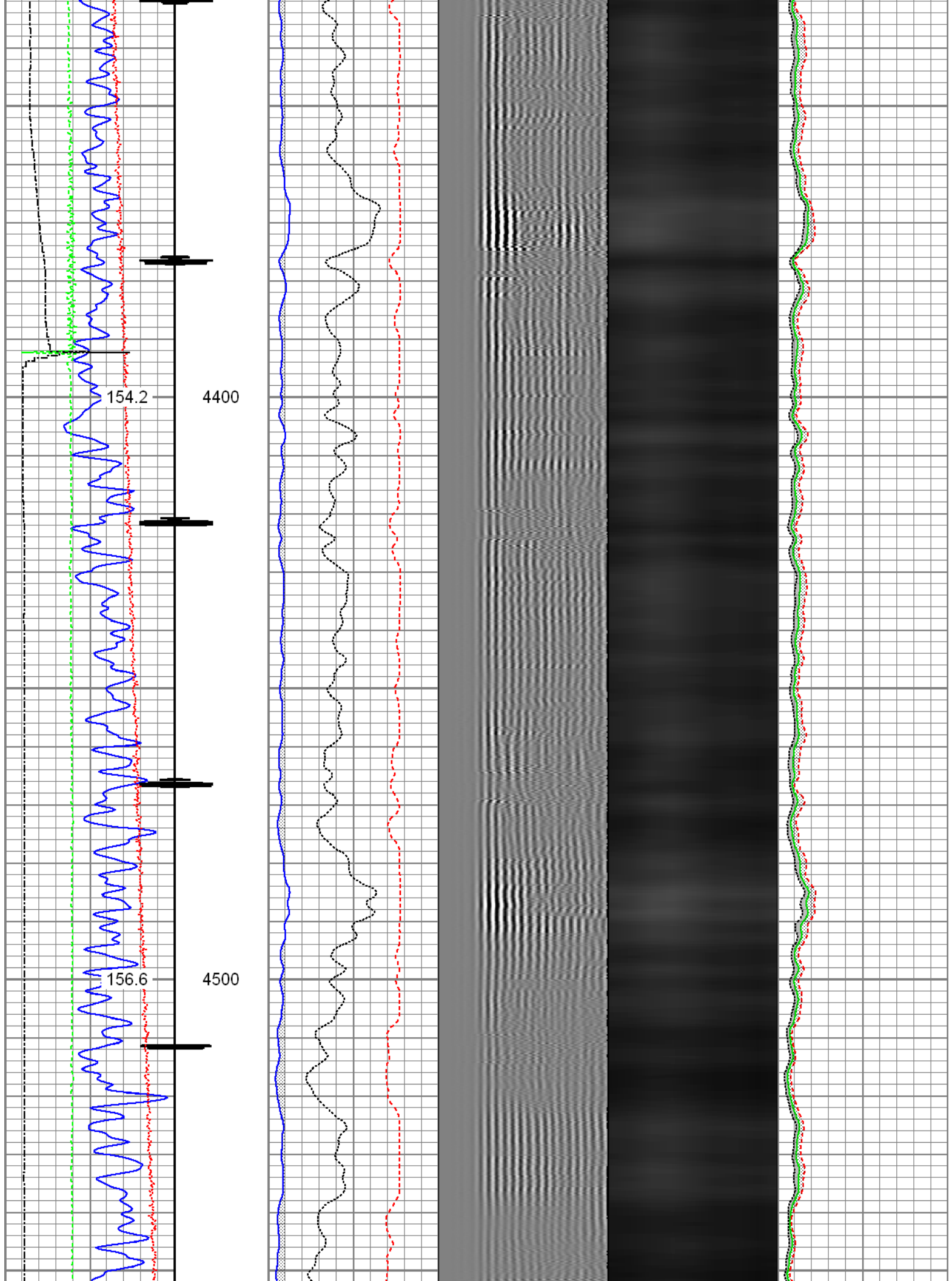


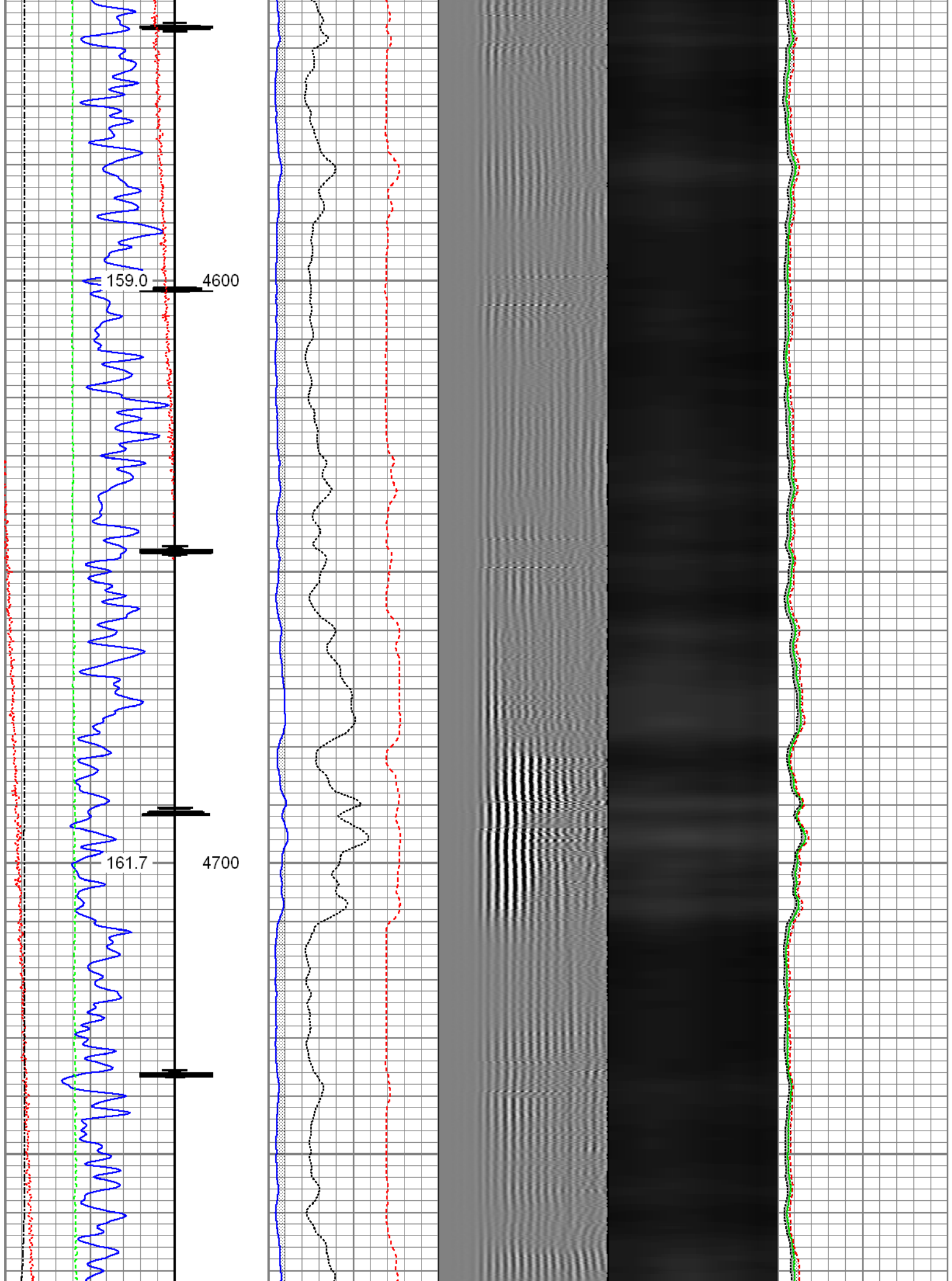


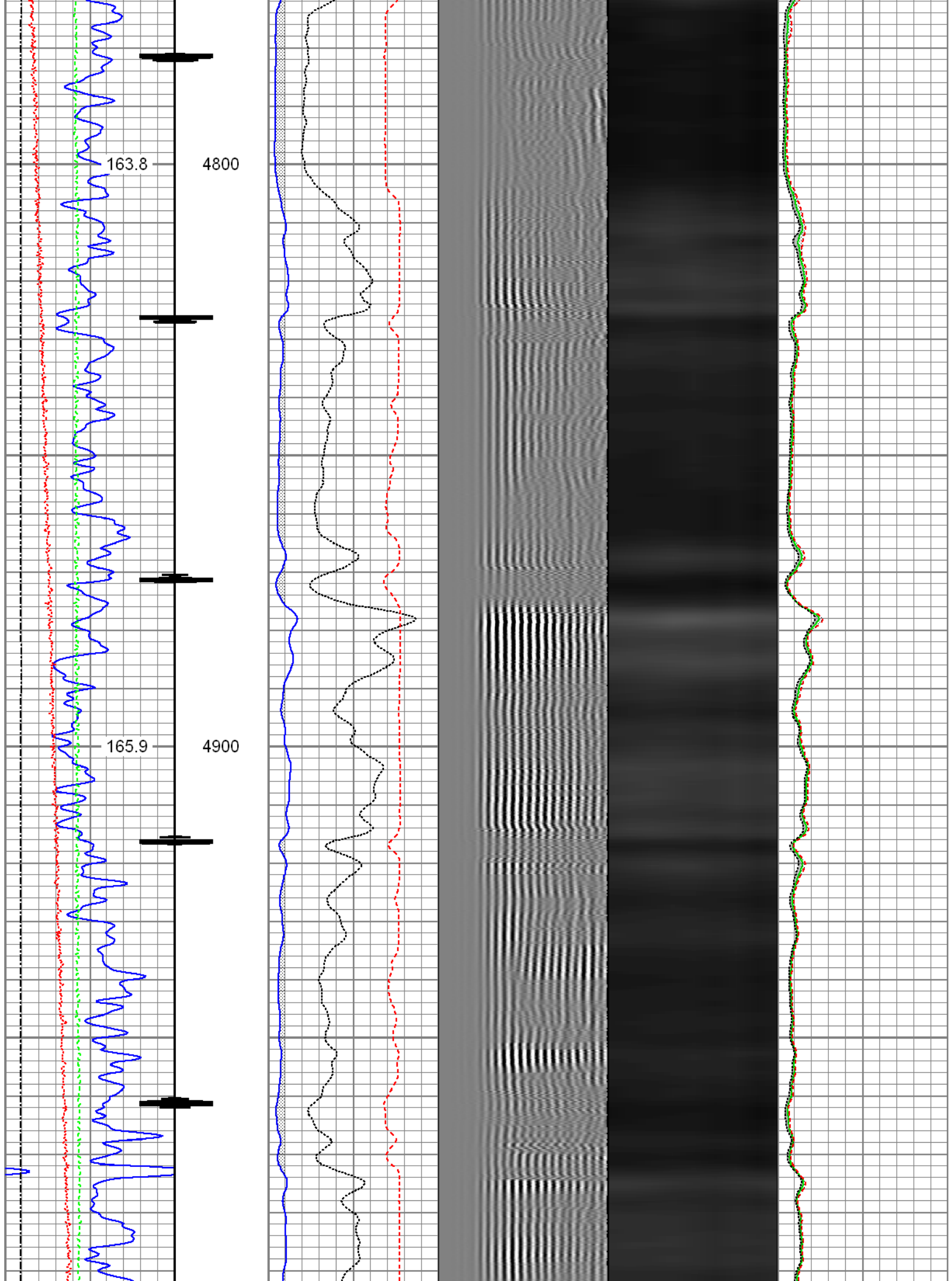


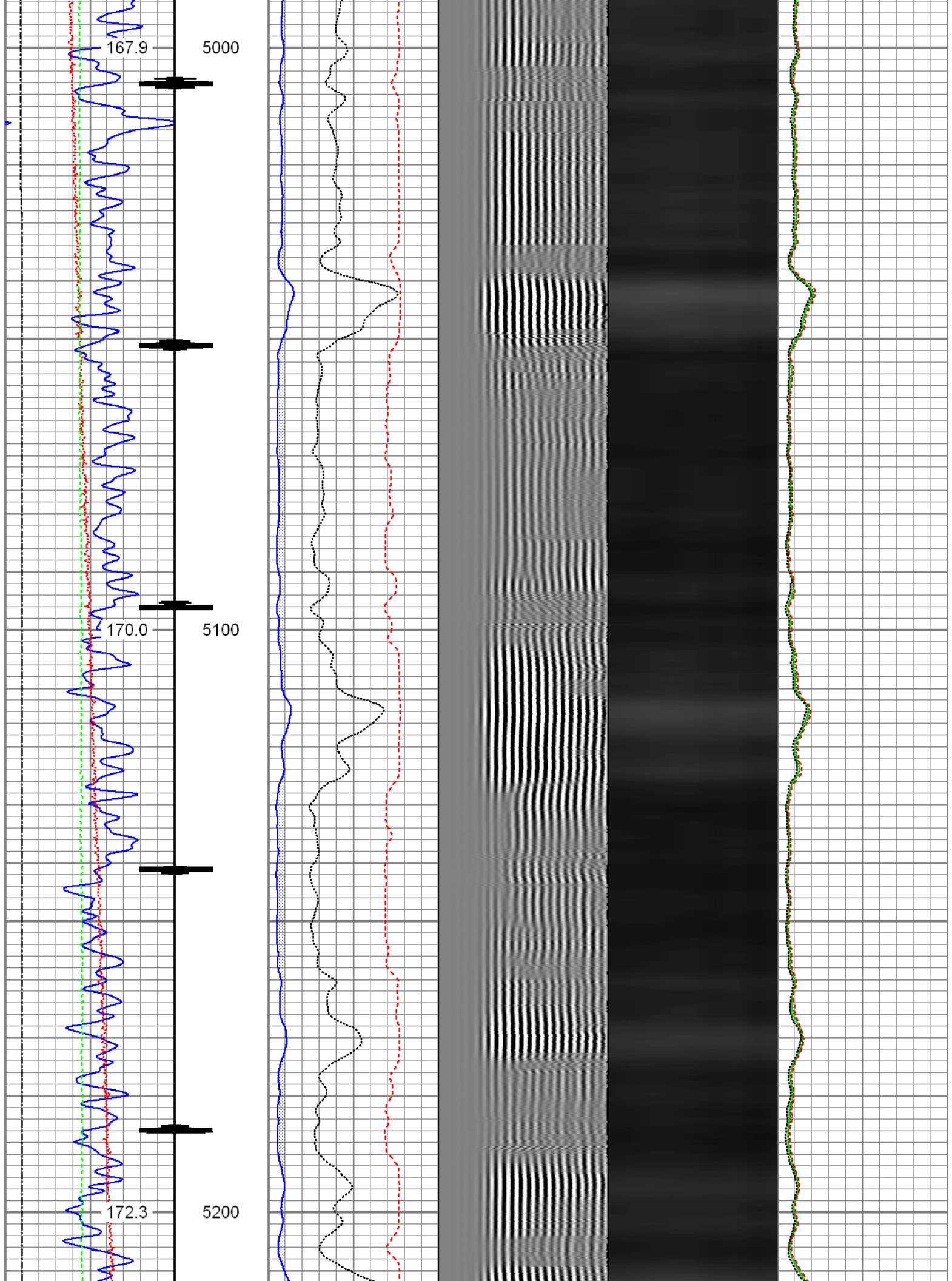


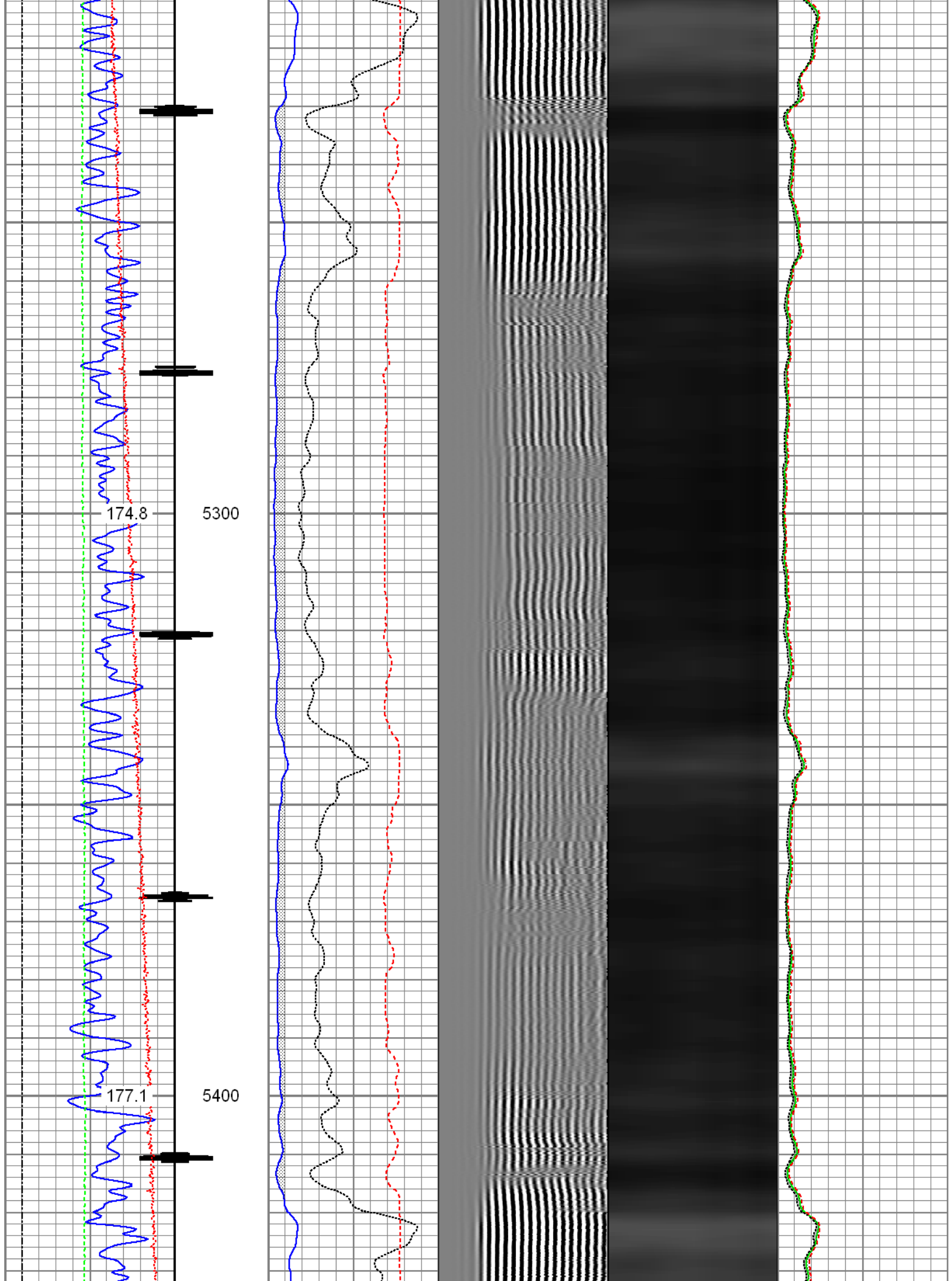


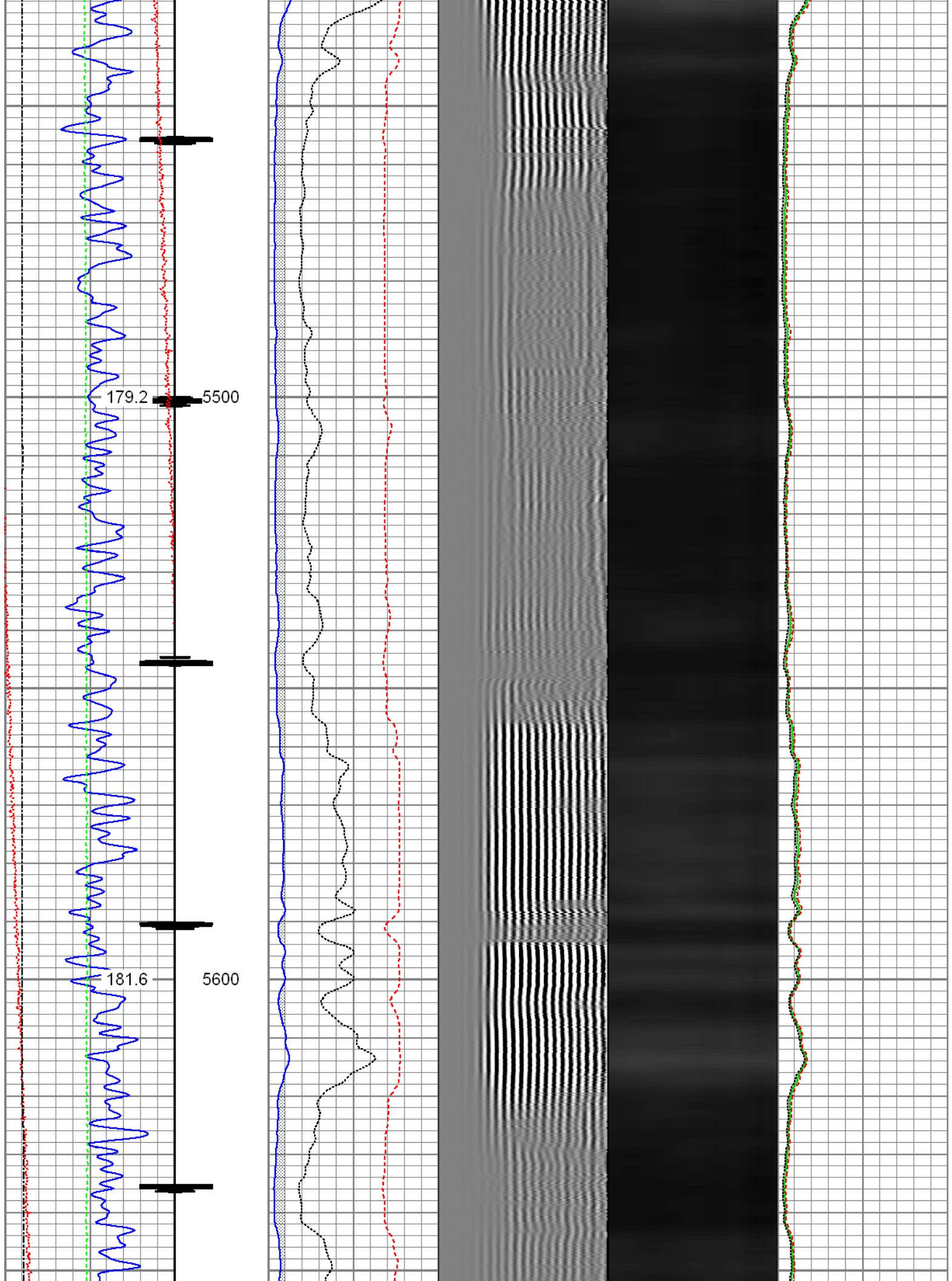


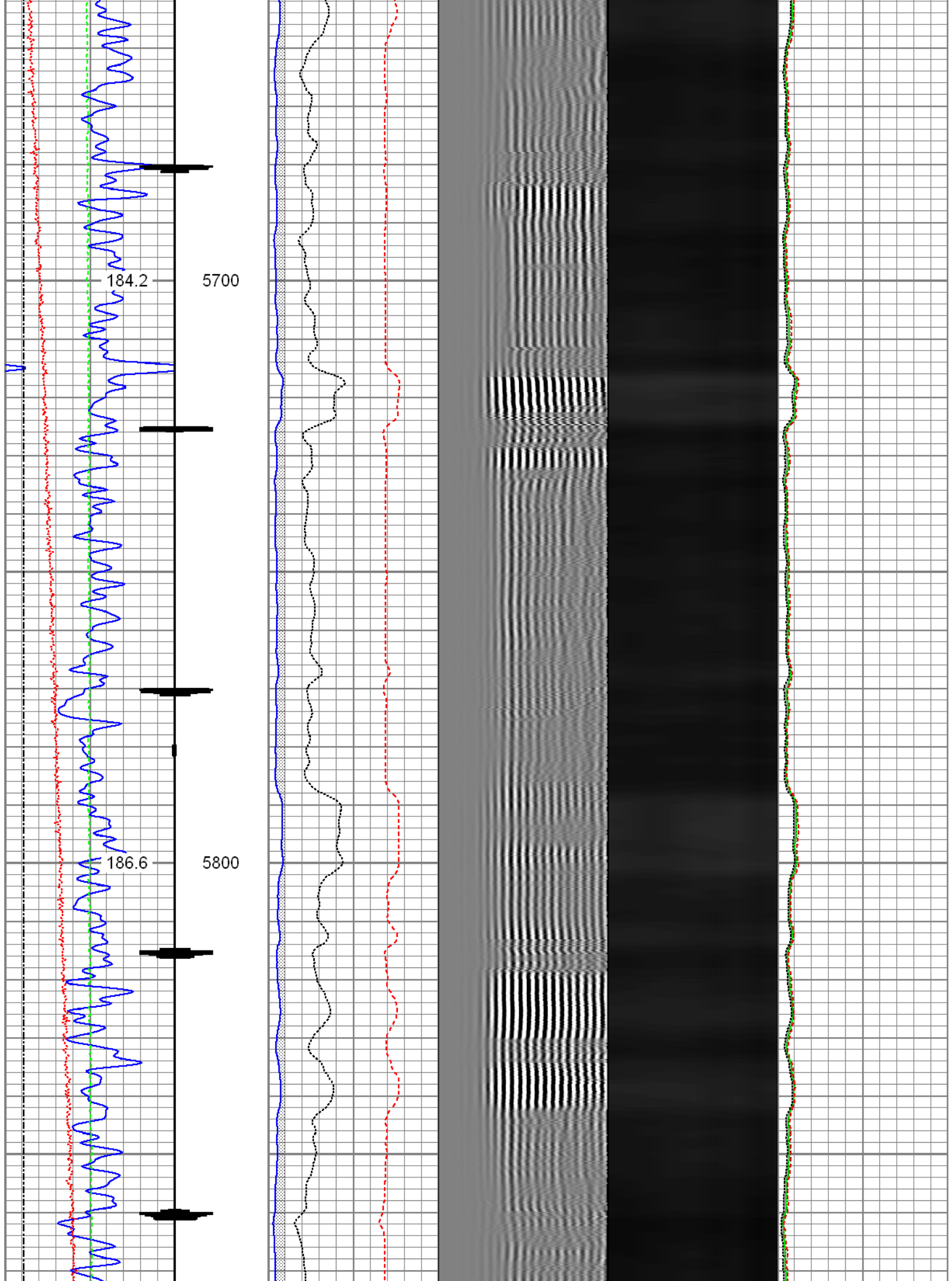


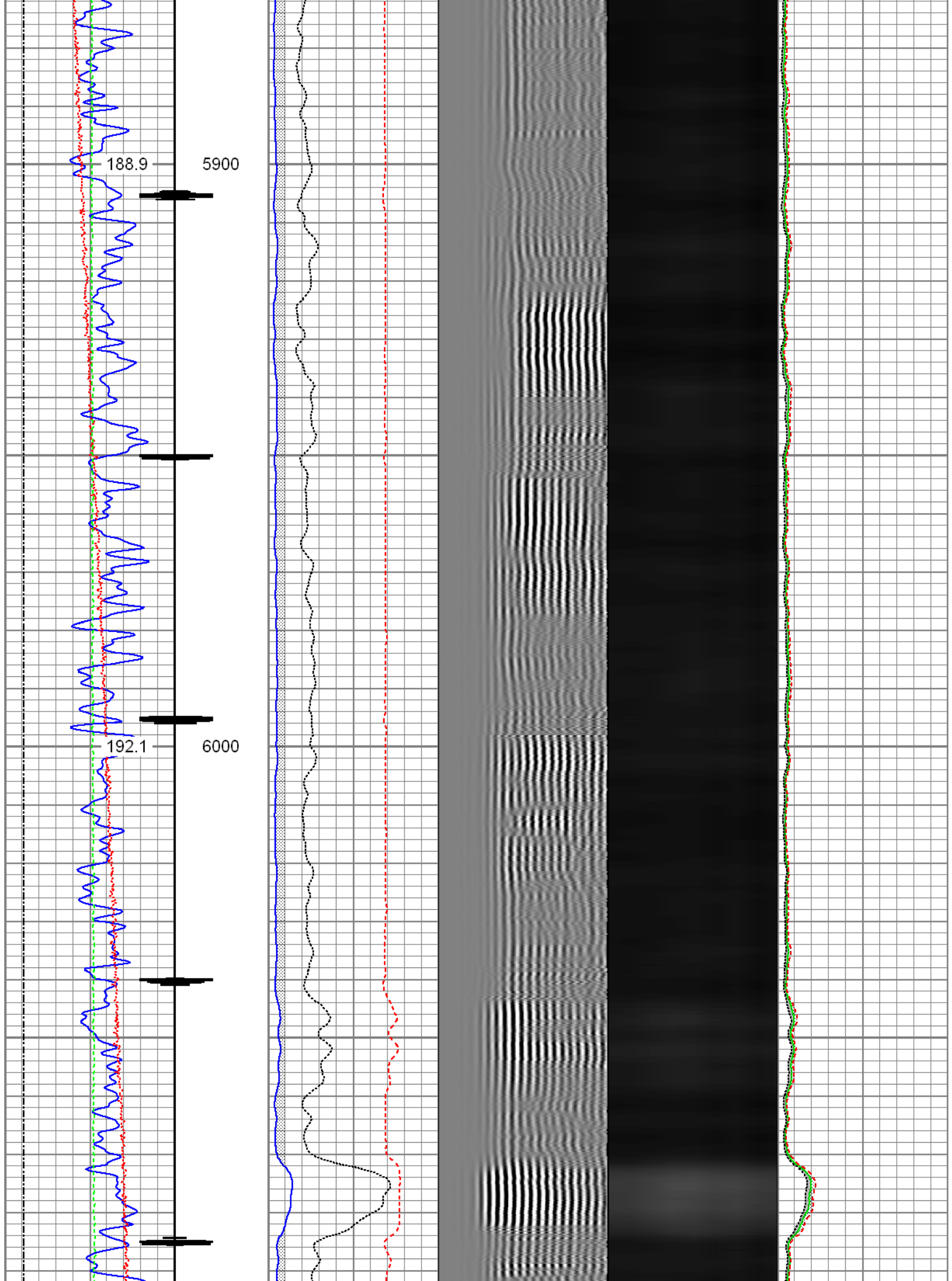


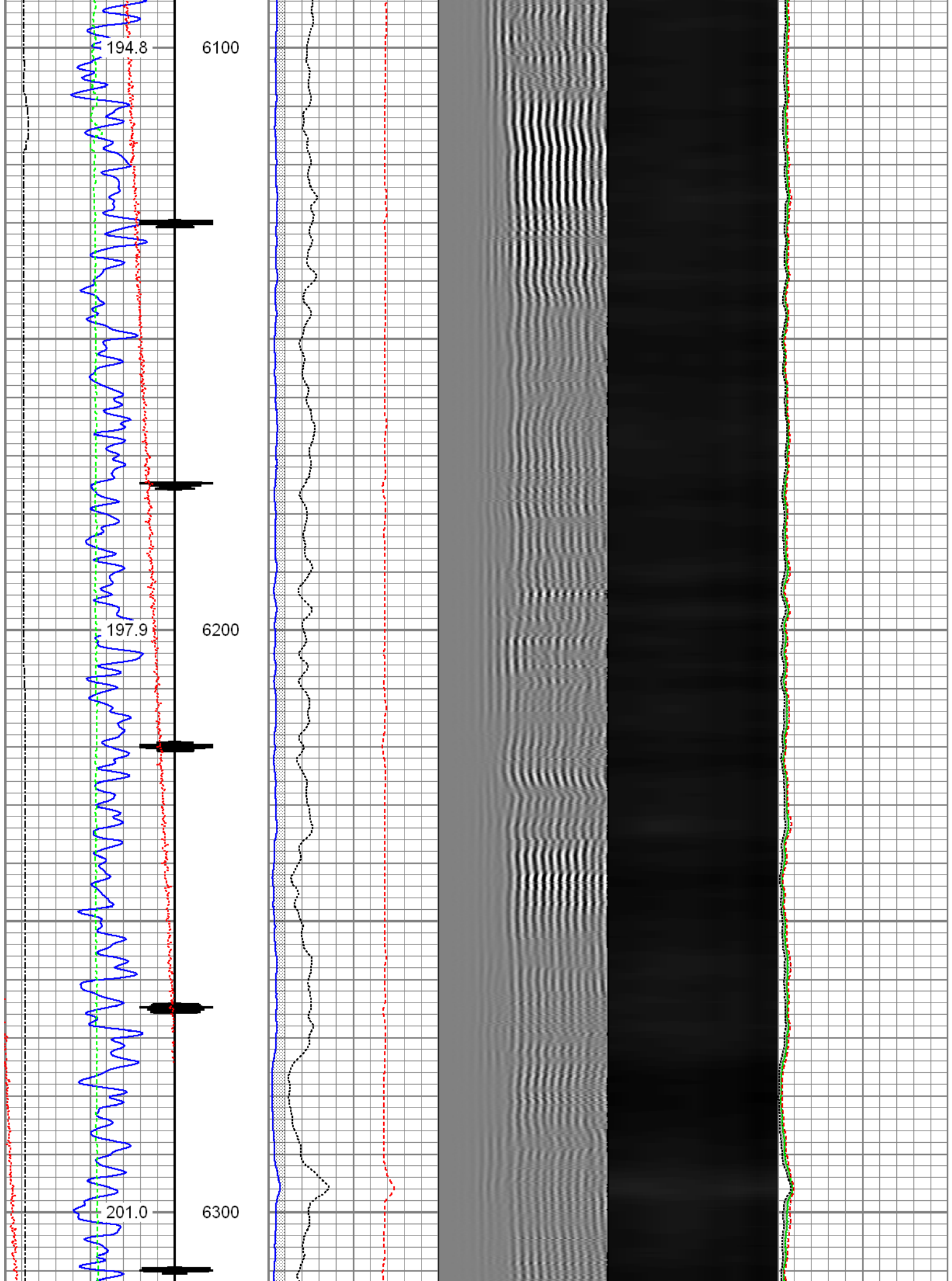


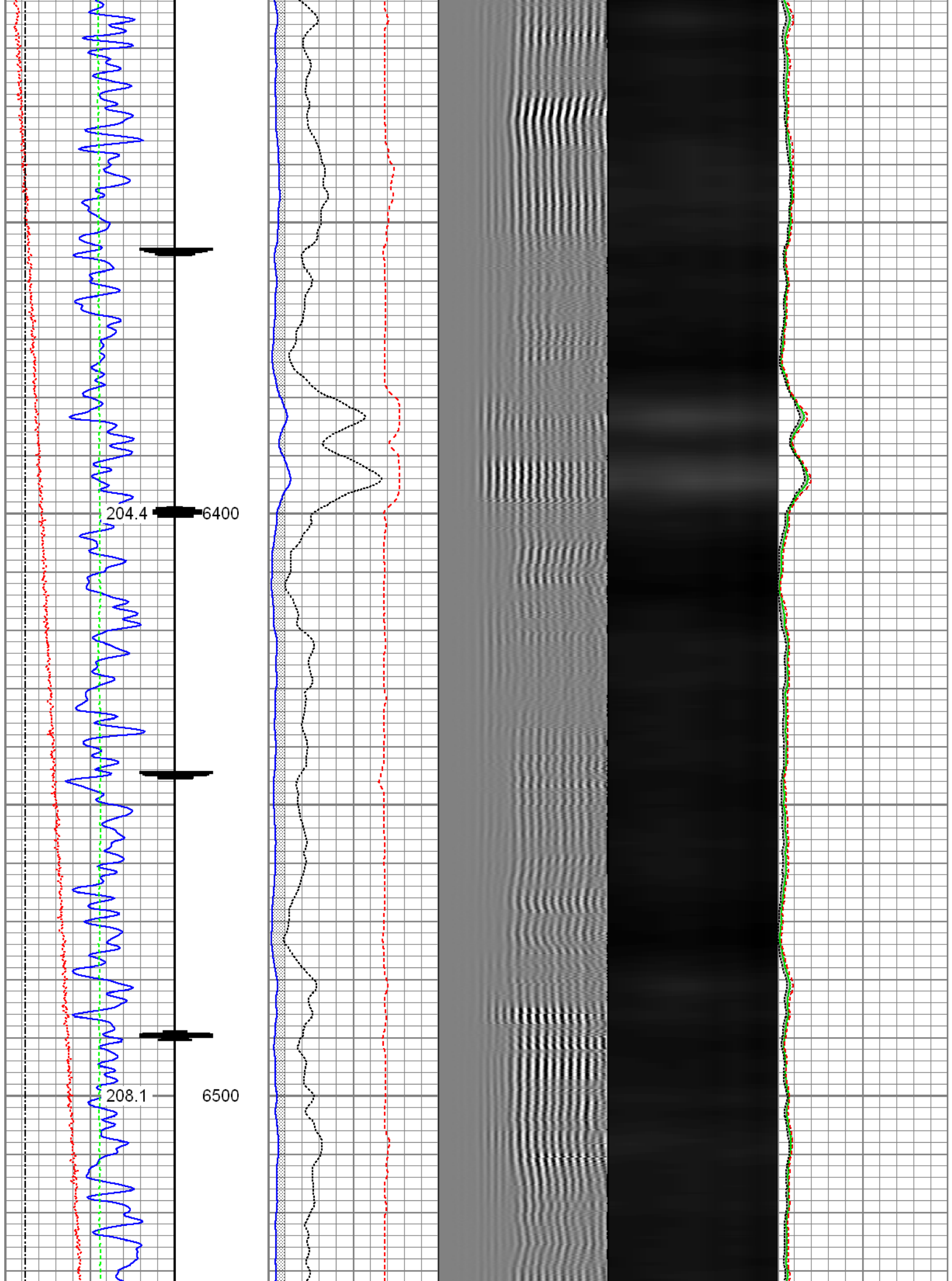


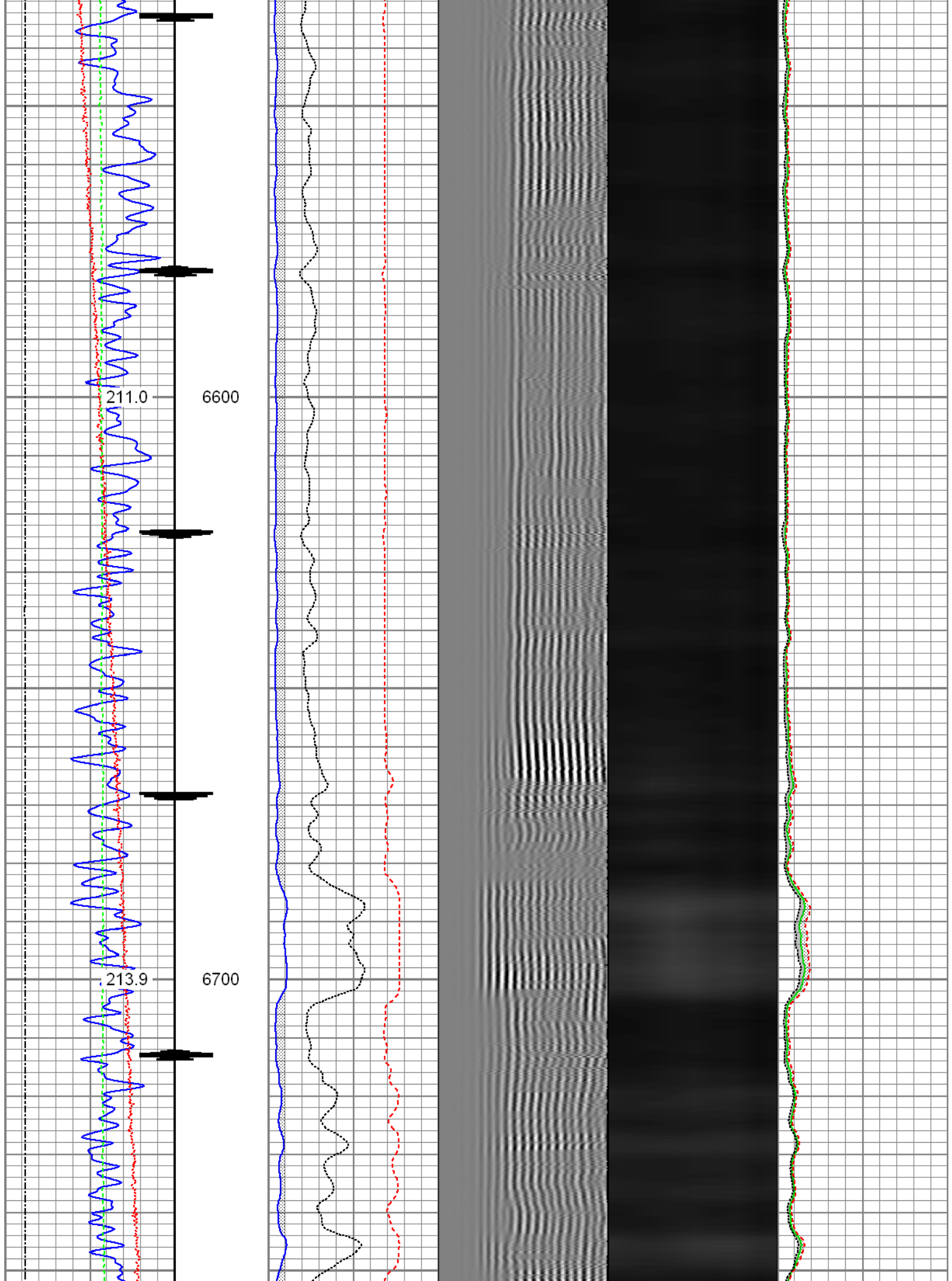


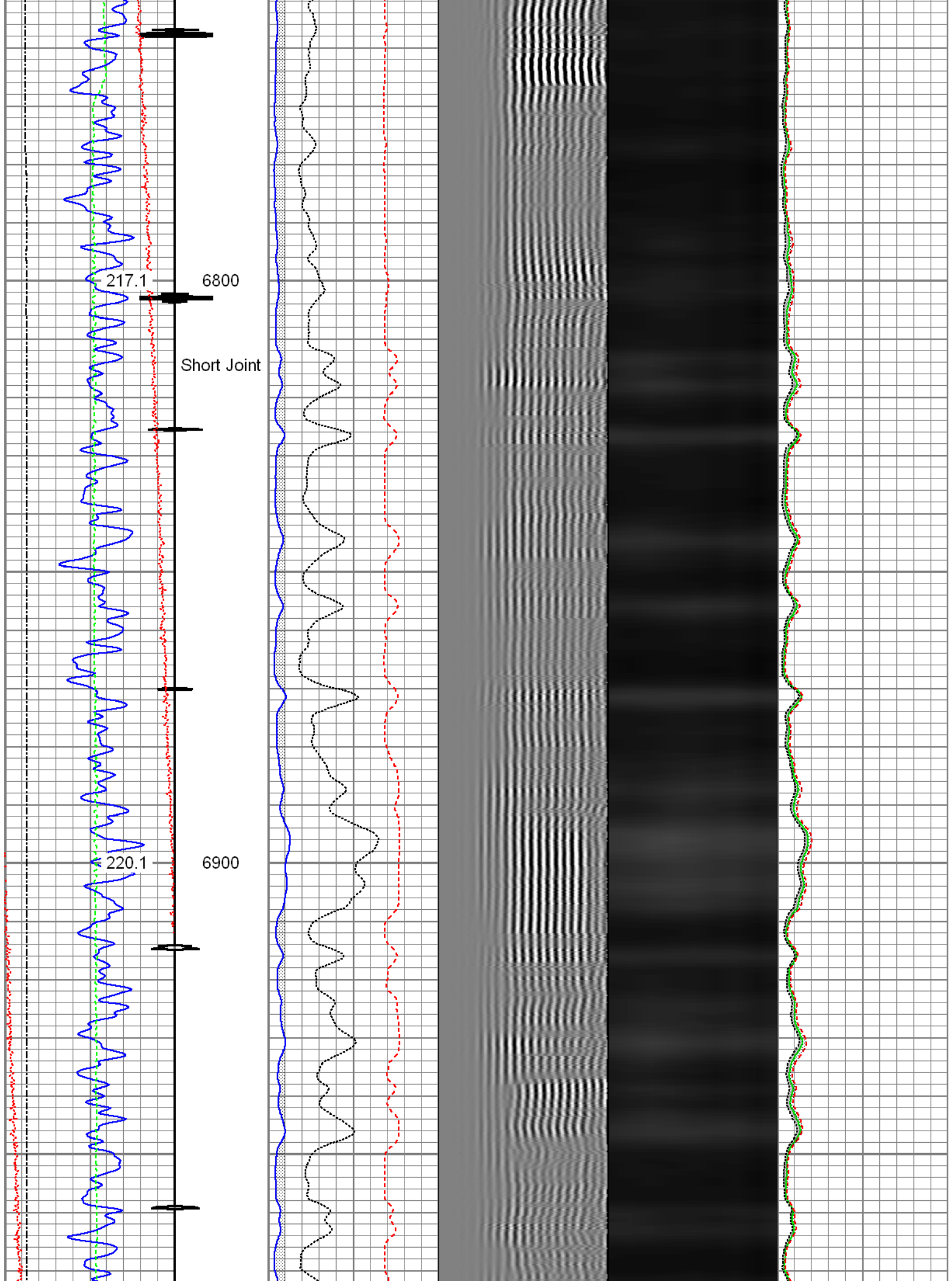


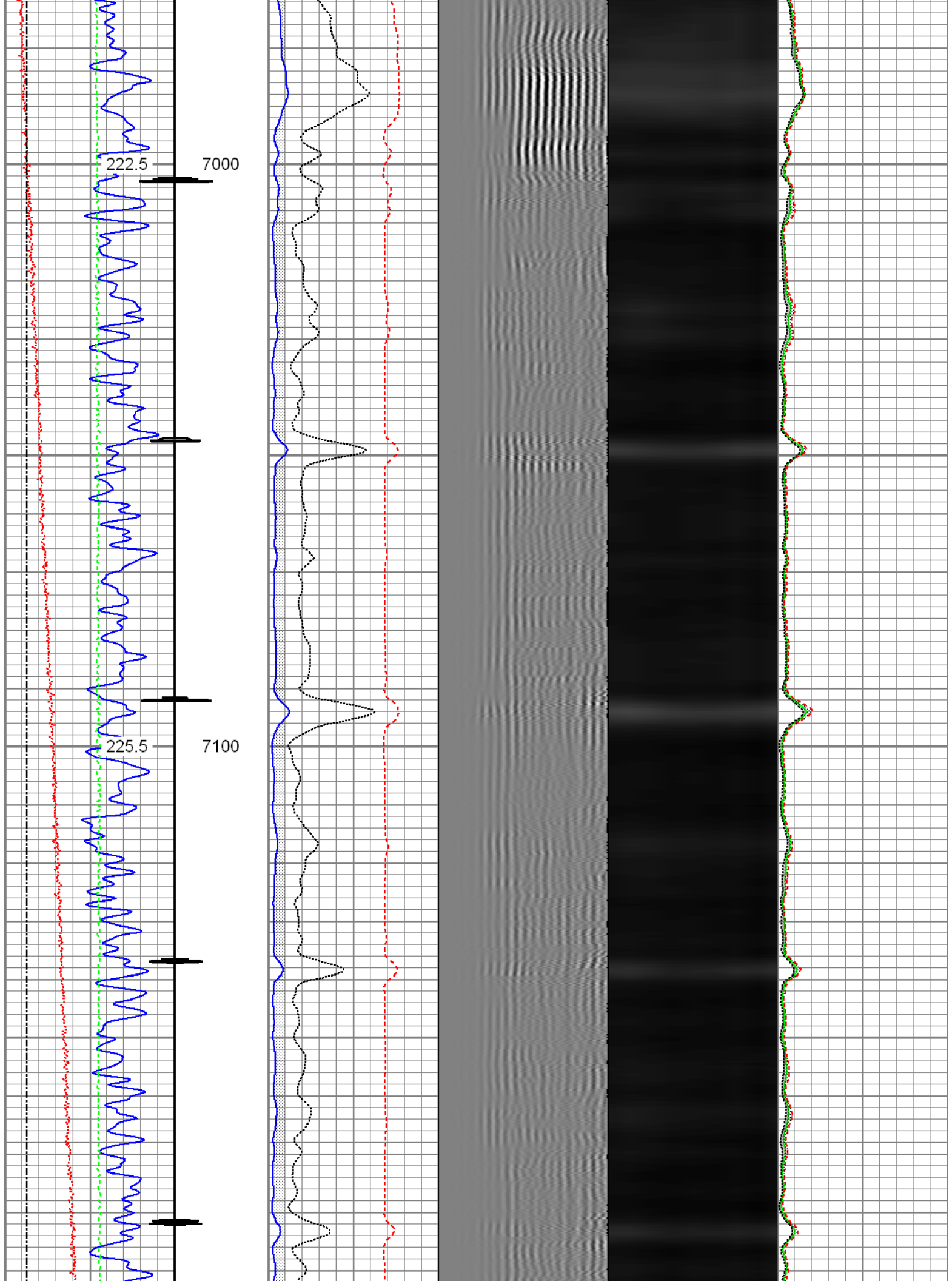


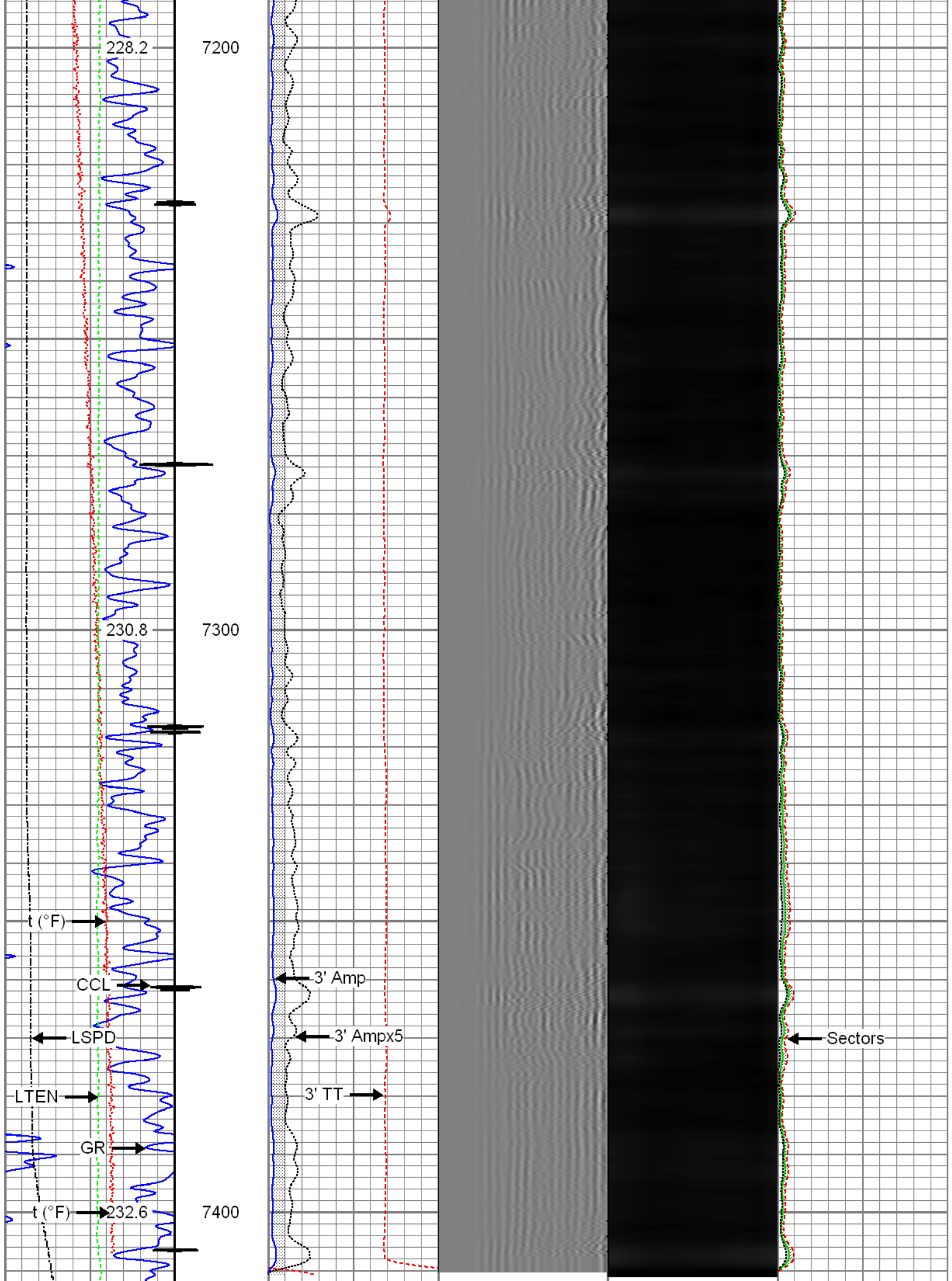


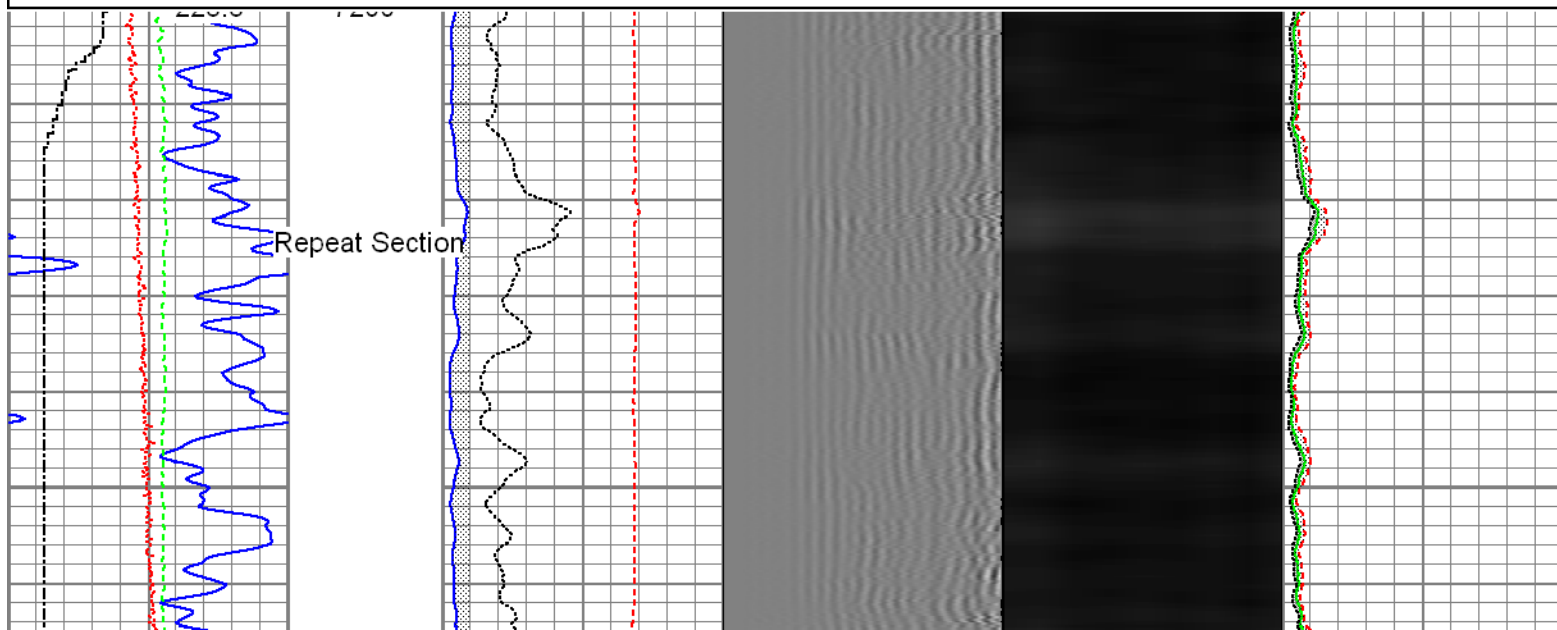
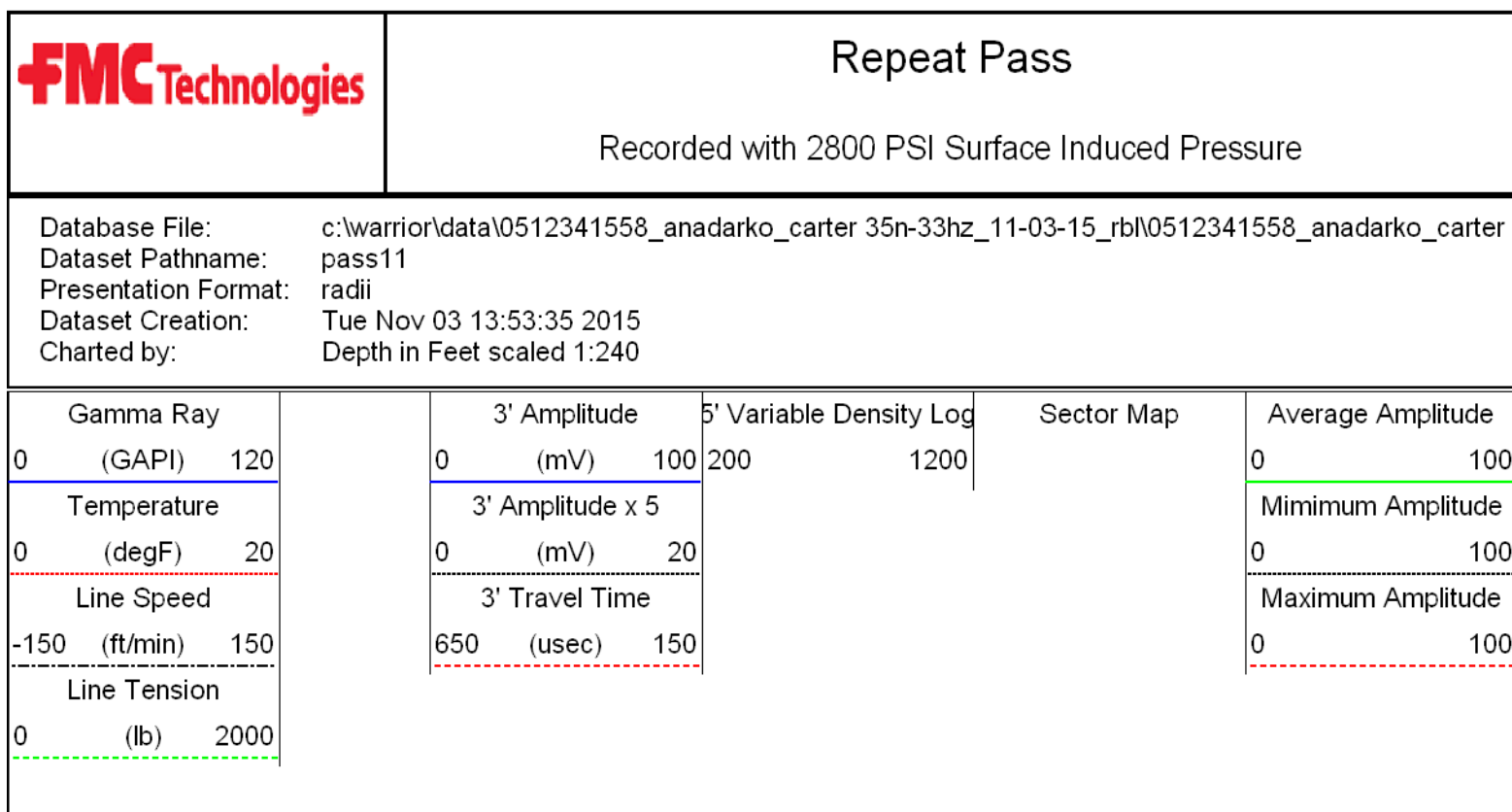
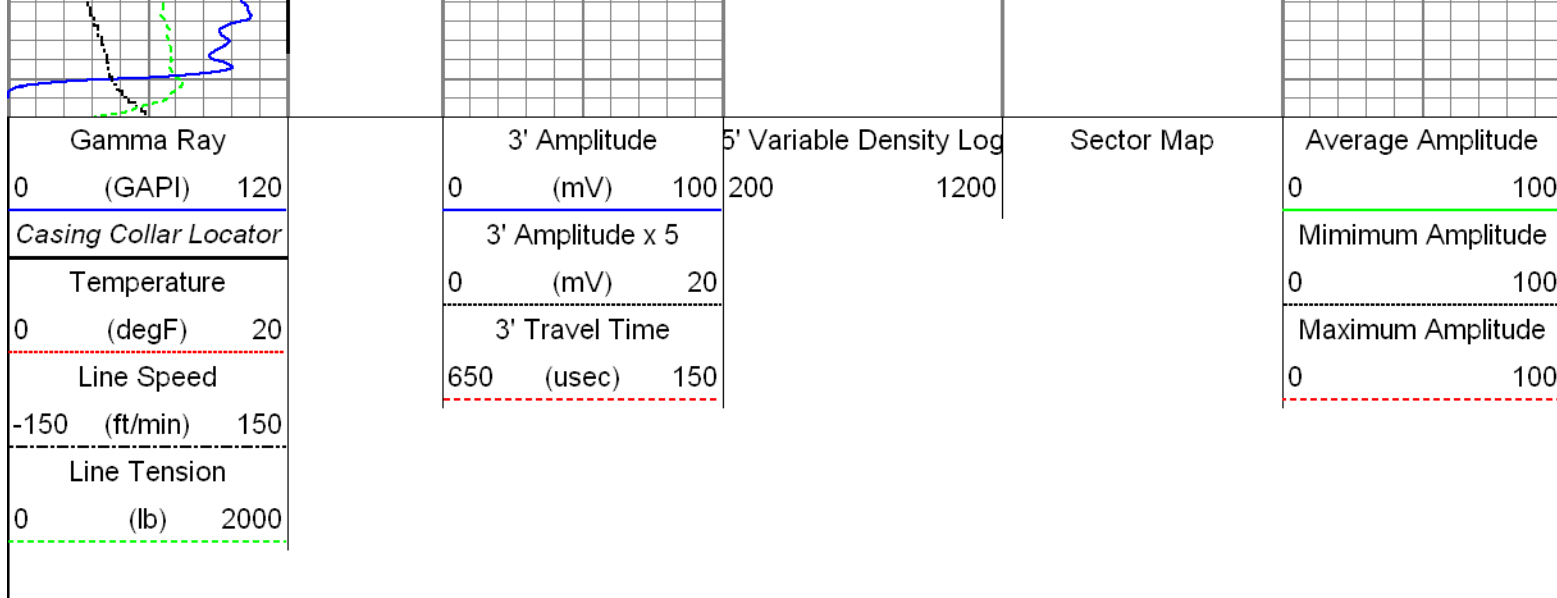


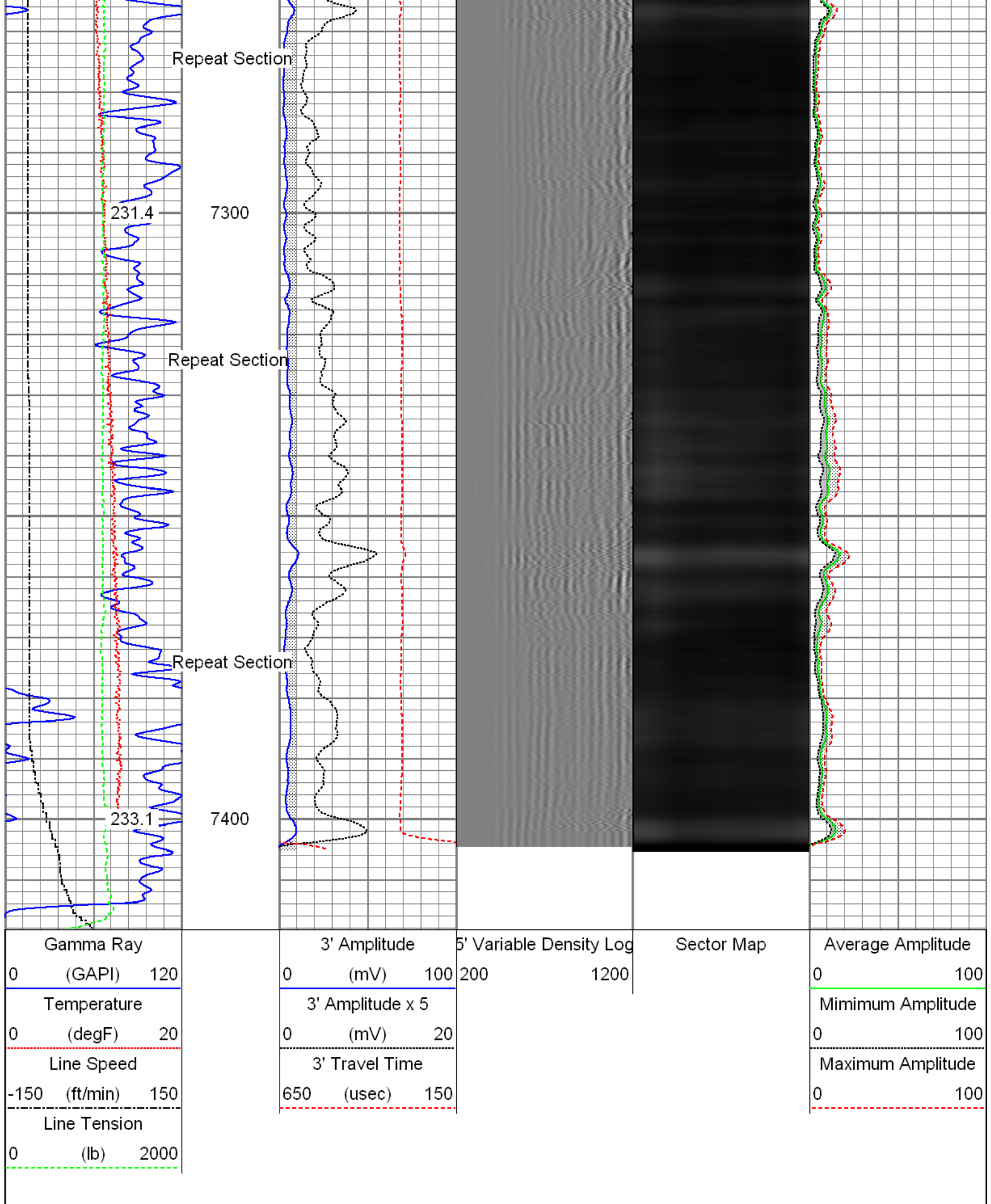






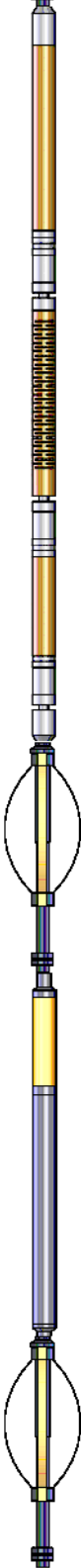








Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00

HeadVolt	19.49		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.72					
WVF3FT	14.55		Probe_RADII-C-2-3/4" (FW1305-098) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFCAL	14.55					
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					
CCL	6.51		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
DCCL	6.51					
GR	3.77		Probe_CCL_GR-2.75"Digital (FW1212-026) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: 0512341558_anadarko_carter 35n-33hz_11-03-15_rbl.db: field/well/run1/pass13 Total Length: 23.40 ft Total Weight: 194.00 lb O.D. 2.75 in						

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: FW1305-098
 Tool Model: 2-3/4"

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 118.520 ft

Master Calibration, performed Tue Nov 03 12:05:47 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	0.549	0.800	71.921	132.157	-0.630
CAL	0.010	0.607				
5'	0.016	0.426	0.800	71.921	173.453	-1.969
SUM						
S1	0.010	0.537	0.000	100.000	189.755	-1.894
S2	0.012	0.567	0.000	100.000	180.036	-2.082
S3	0.011	0.605	0.000	100.000	168.362	-1.883
S4	0.011	0.607	0.000	100.000	167.799	-1.921
S5	0.011	0.587	0.000	100.000	173.582	-1.922
S6	0.011	0.548	0.000	100.000	186.208	-2.034
S7	0.012	0.521	0.000	100.000	196.230	-2.320
S8	0.013	0.517	0.000	100.000	198.432	-2.613


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	0.611	1.000	0.000

Air Zero Calibration, performed Tue Nov 03 12:06:07 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	

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

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