



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Kerr-McGee Oil & Gas Onshore, L.P.				Company Kerr-McGee Oil & Gas Onshore, L.P.			
Well Meguire 29N-16HZ				Well Meguire 29N-16HZ			
Field Wattenberg				Field Wattenberg			
County Weld				County Weld			
State Colorado				State Colorado			
Location:				API #: 05-123-41975			
SEC 21 TWP 2N RGE 65W				JB/GR			
Permanent Datum				Ground Level			
Log Measured From				Kelly Bushing			
Drilling Measured From				Kelly Bushing			
Elevation 4889'				Elevation			
K.B. 4909'				D.F. 4908'			
G.L. 4889'				G.L. 4889'			

Date	02-DEC-2015		
Run Number	One		
Depth Driller	15236 FT		
Depth Logger	7502 FT		
Bottom Logged Interval	7498 FT		
Top Log Interval	Surface		
Open Hole Size	7.875"		
Type Fluid	Water		
Density / Viscosity	8.34 lbm/gal		
Max. Recorded Temp.	241°F		
Estimated Cement Top	Surface		
Time Well Ready	ROA		
Time Logger on Bottom	9:15 A.M.		
Equipment Number	HD-0325		
Location	Fort Lupton, CO		
Recorded By	J. Morrison		
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	Surface	1858 FT		
Intermediate #1							
Intermediate #2							
Liner	5 1/2	17	HCP 110	Surface	15219 FT		
Marker Joint				6529 FT-6554 FT			

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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 reference to Casing Tally reported Marker Joint at 6529 FT
Adjusted log 3 FT to correlate with Marker Joint
Log ran from 7498 FT to surface
Recorded with 2800 PSI Surface Induced Pressure

Thank you for choosing FMC Technologies Surface Integrated Services.

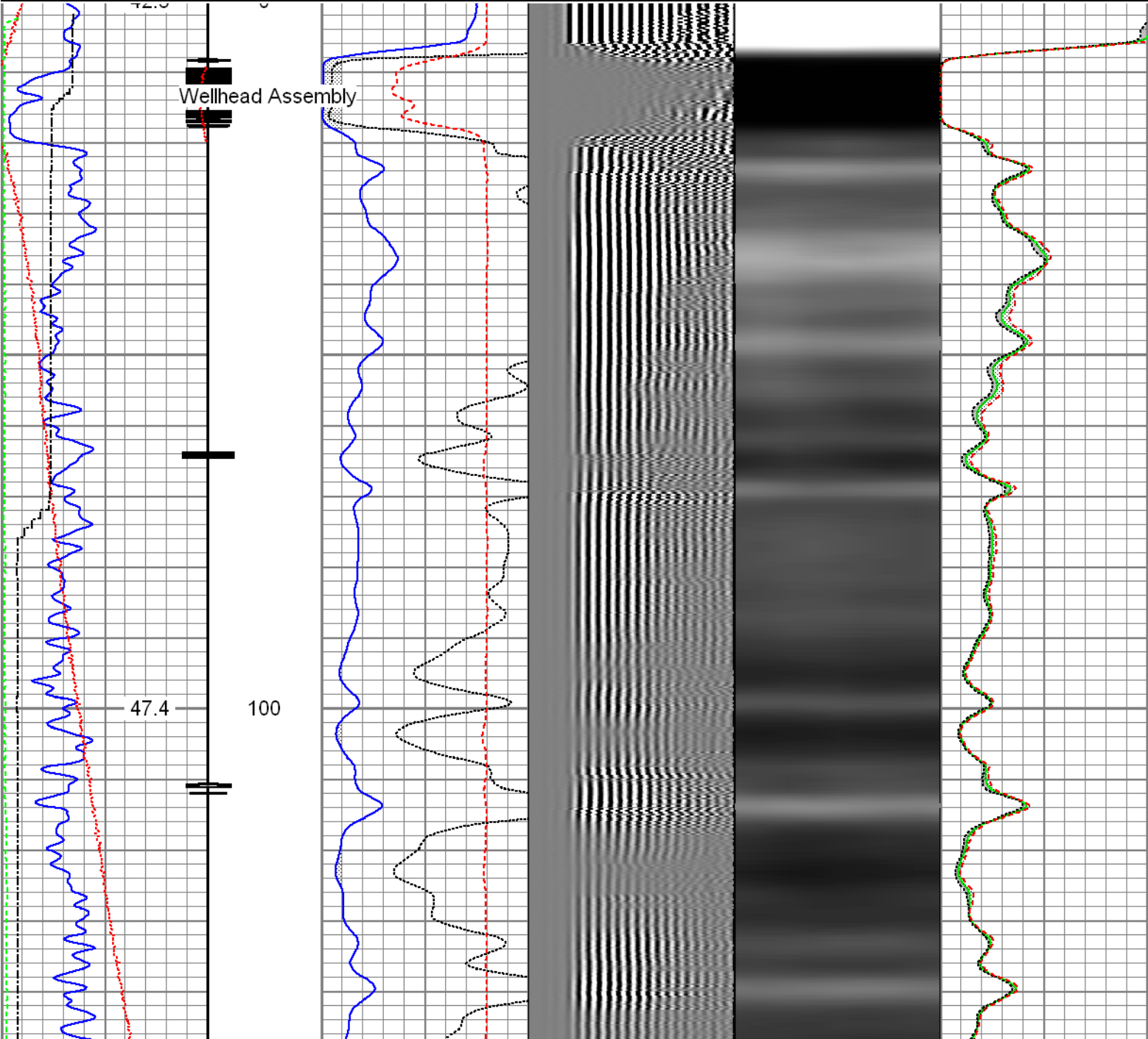


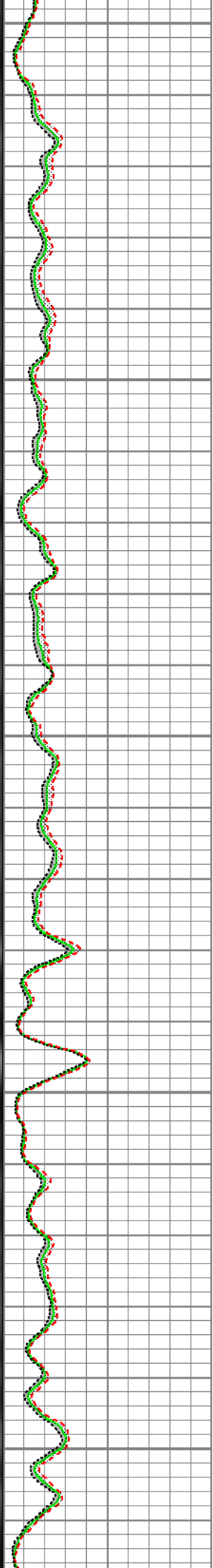
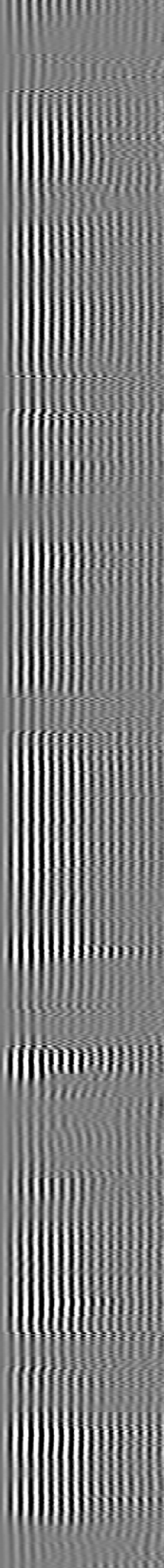
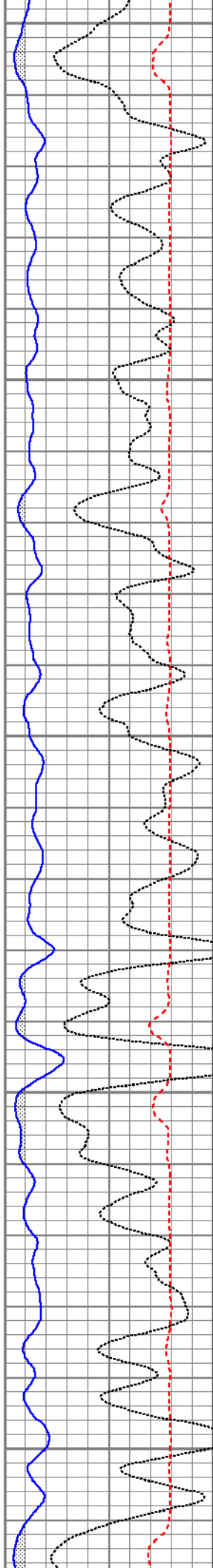
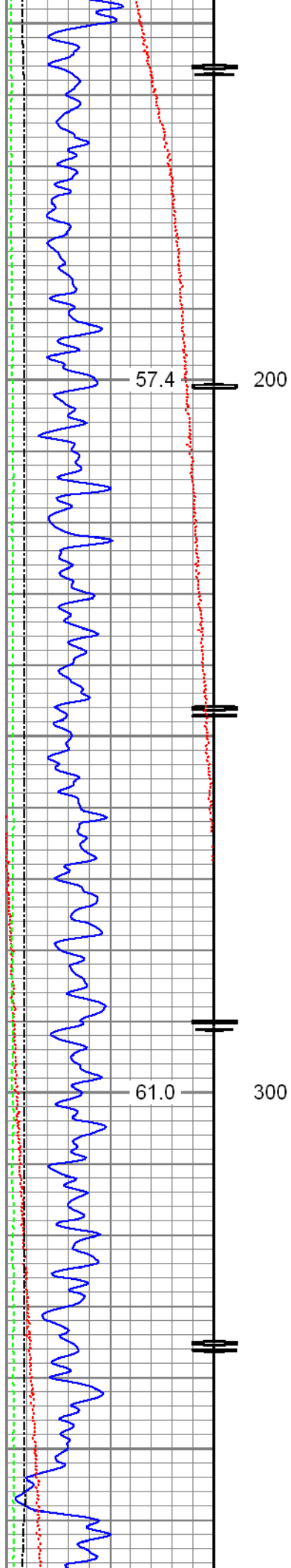
Main Pass

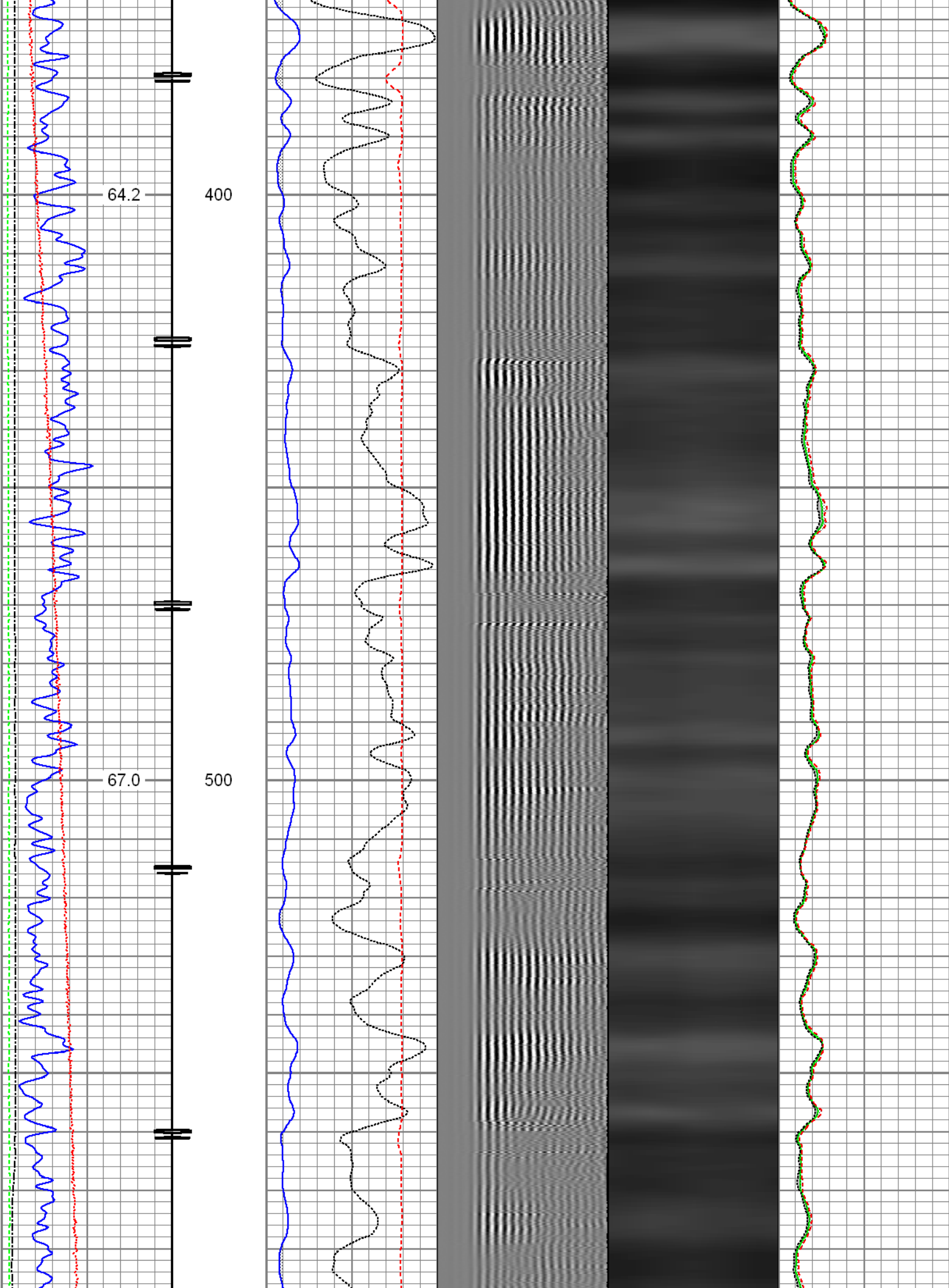
Recorded with 2800 PSI Surface Induced Pressure

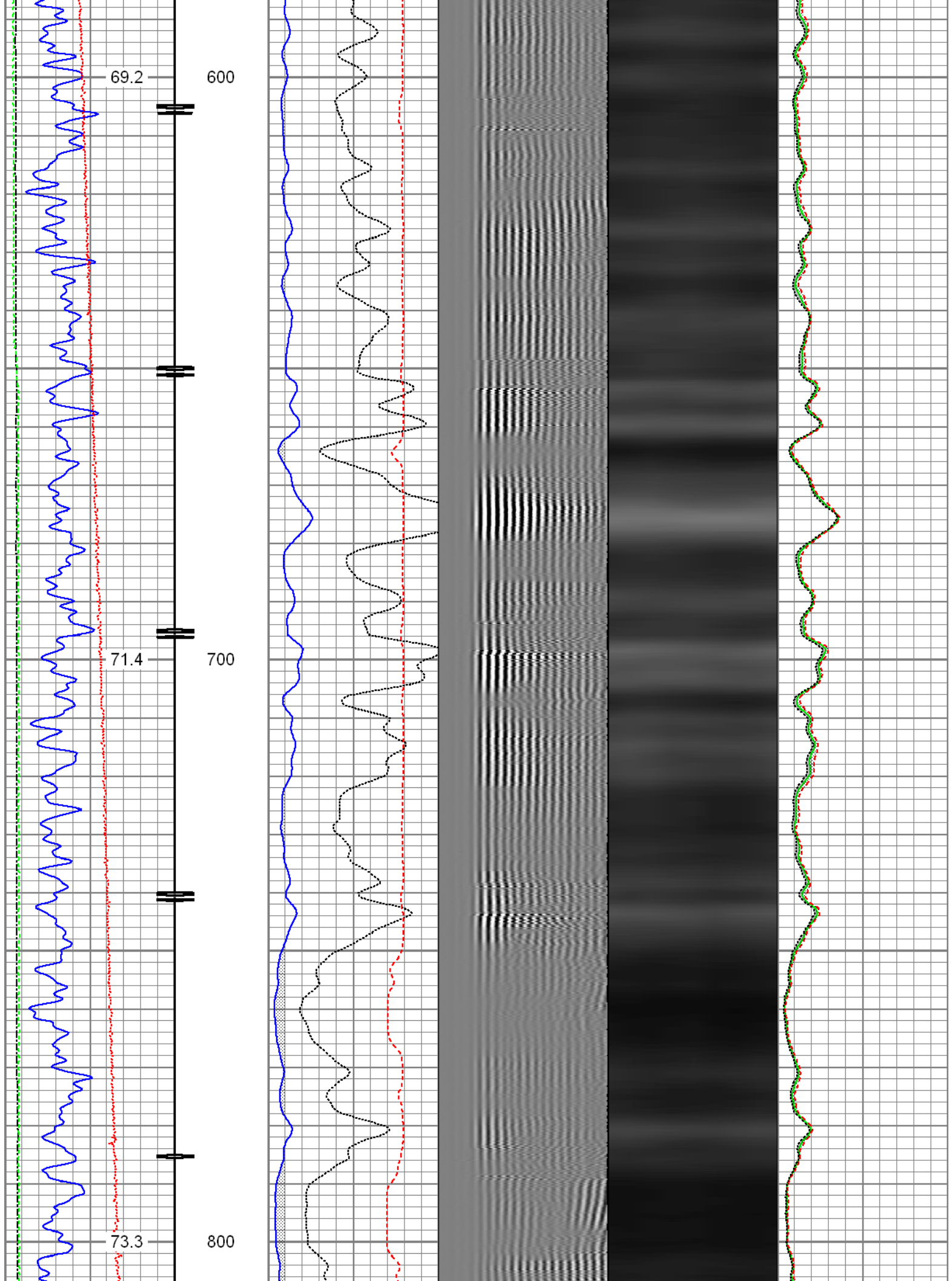
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Dataset Pathname: main
Presentation Format: radii
Dataset Creation: Wed Dec 02 09:31:04 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

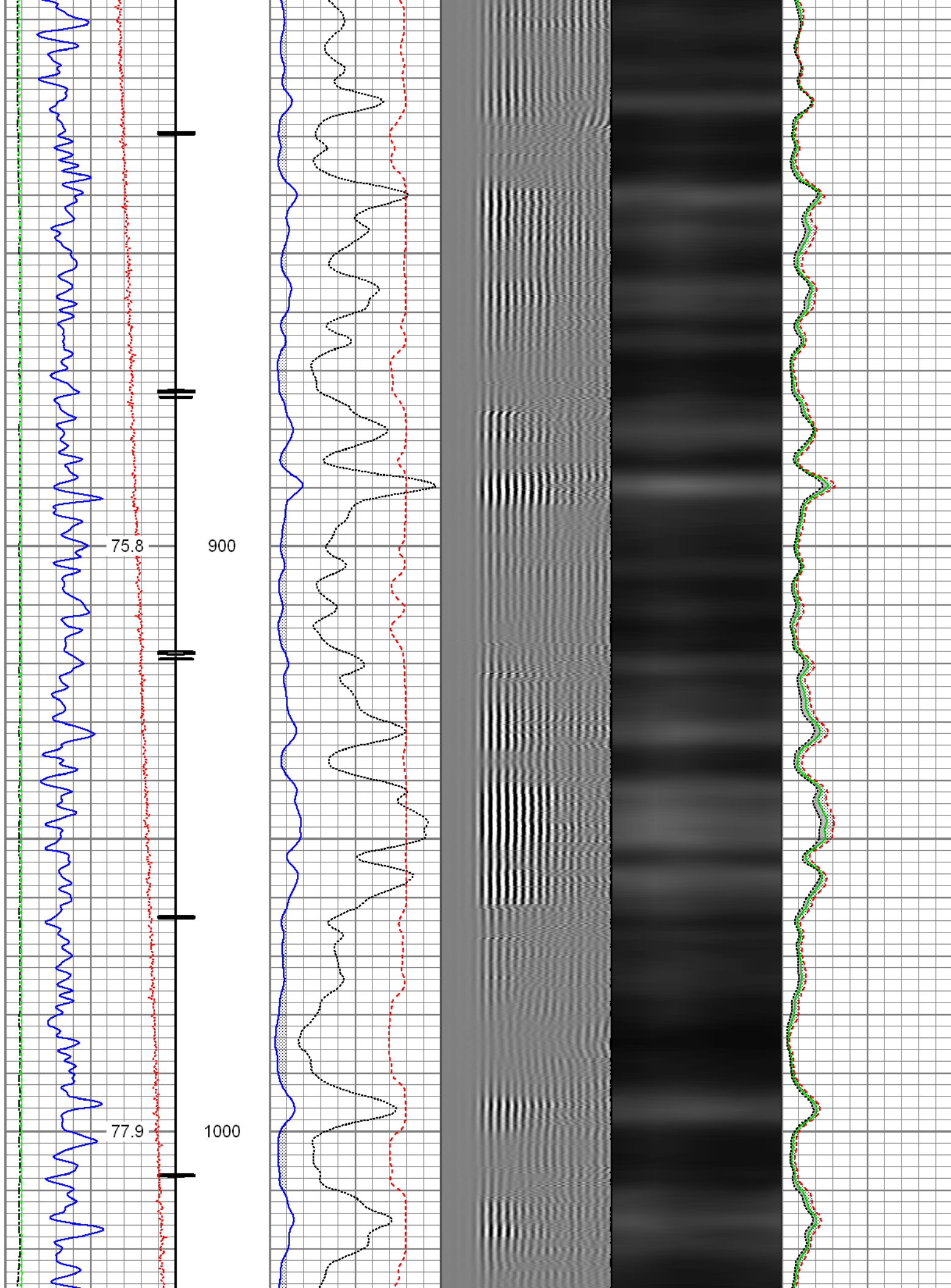
Gamma Ray 0 (GAPI) 120	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator	3' Amplitude x 5 0 (mV) 20			Mimimum Amplitude 0 100
Temperature 0 (degF) 20	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100
Line Speed -150 (ft/min) 150		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

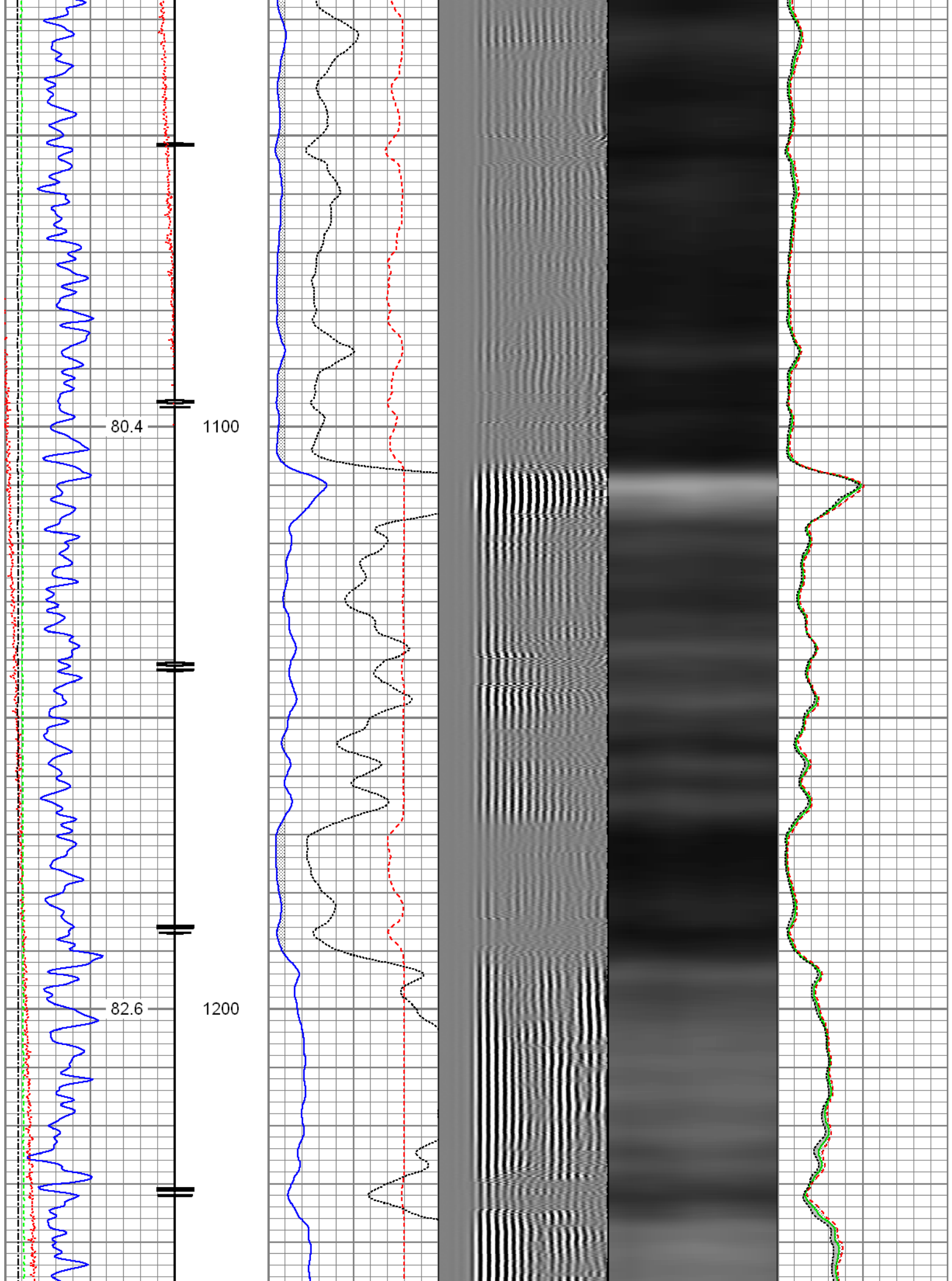


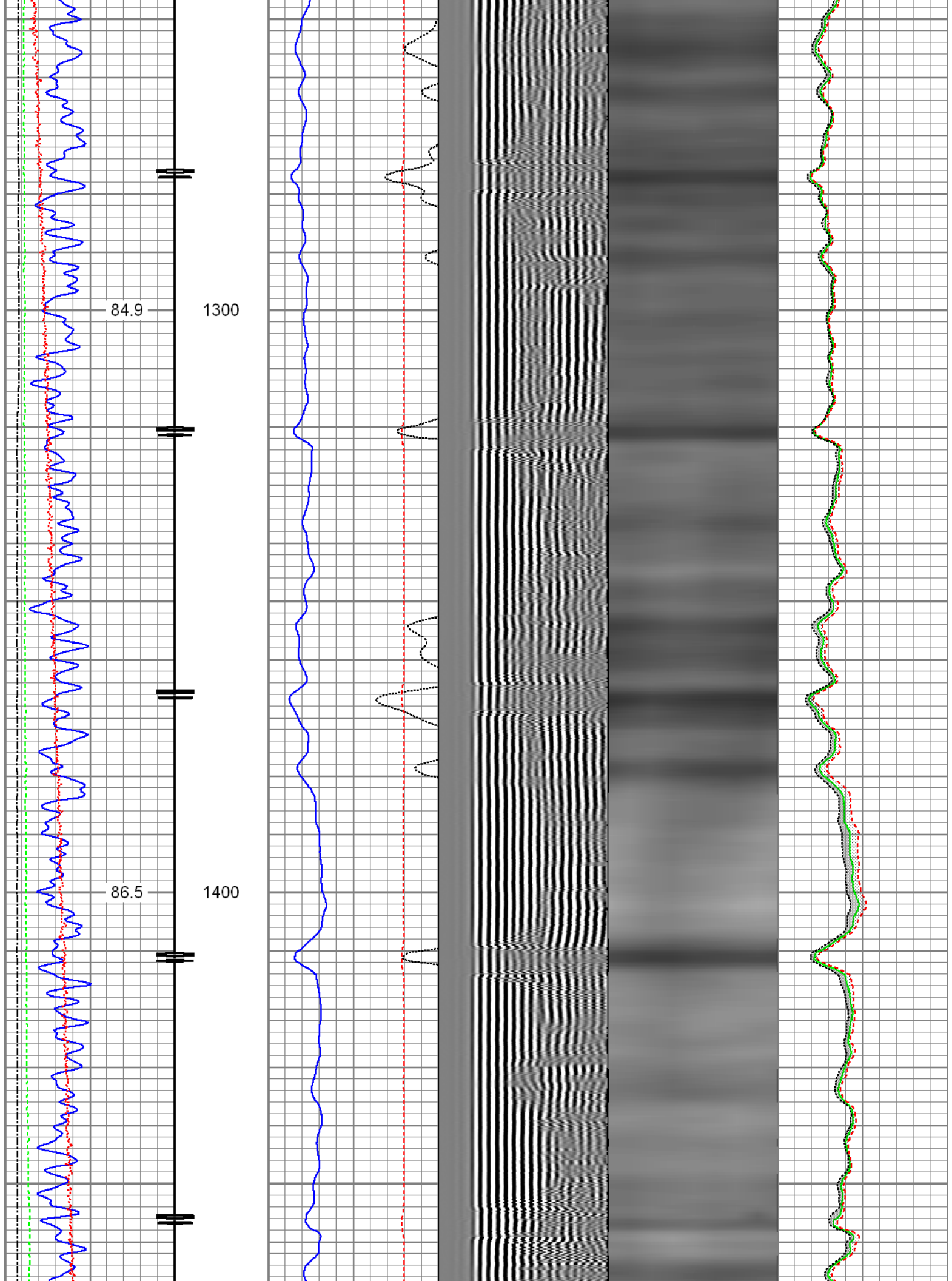


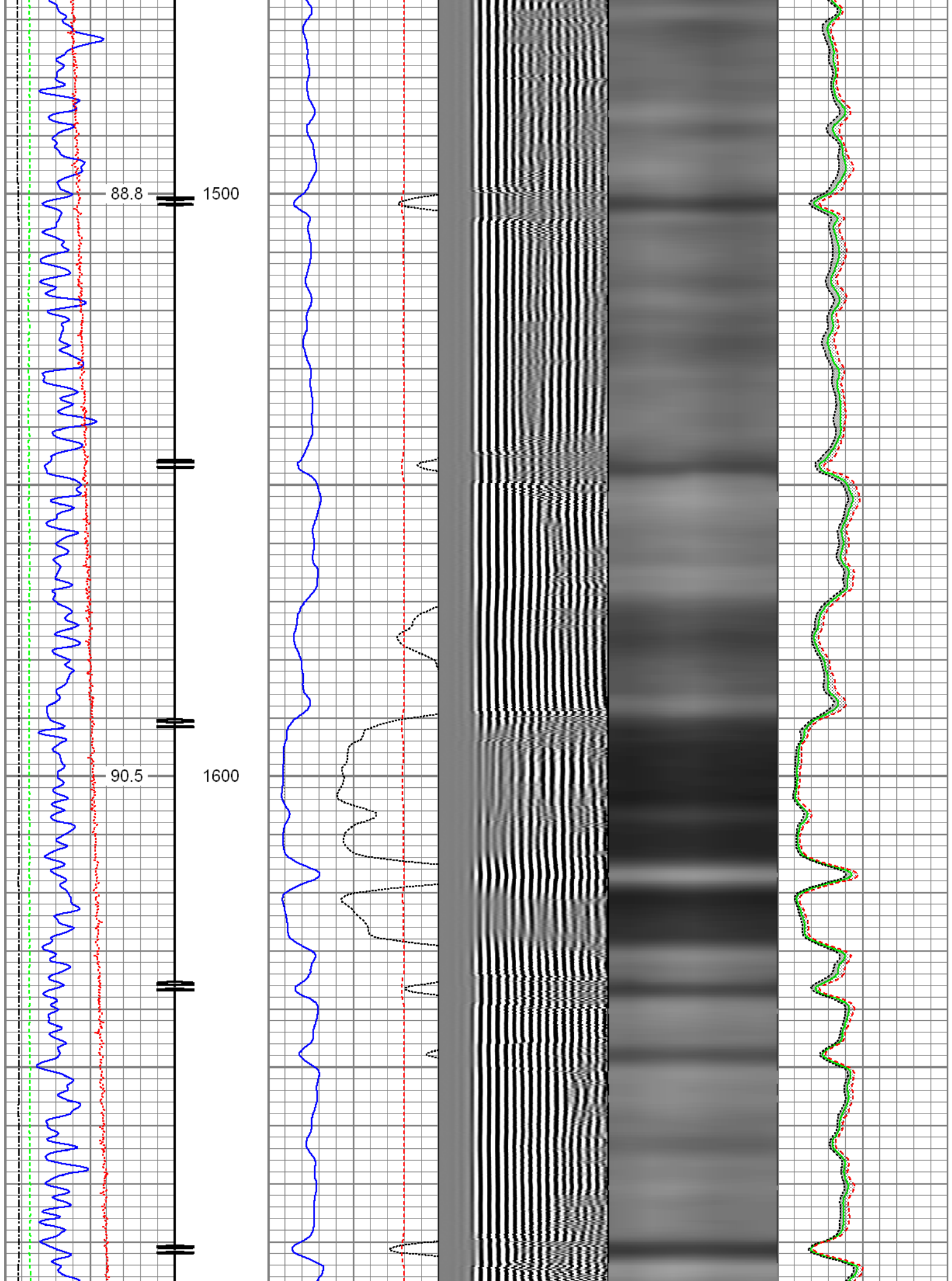


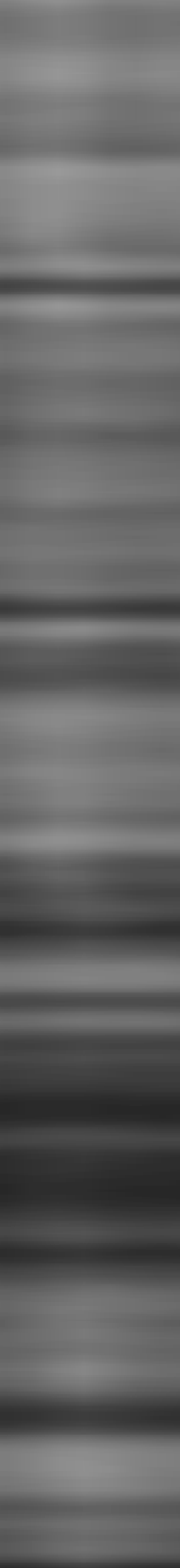
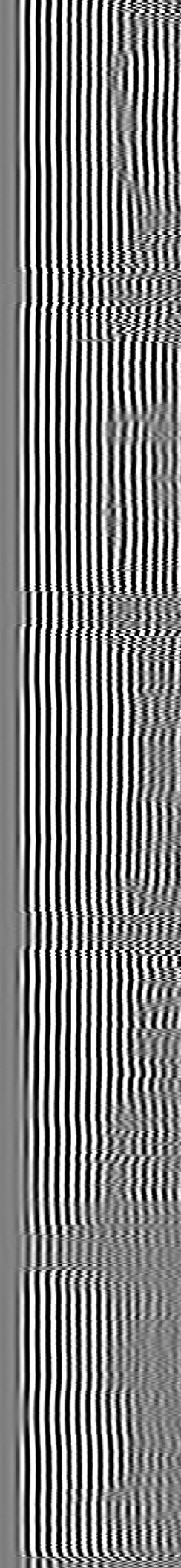
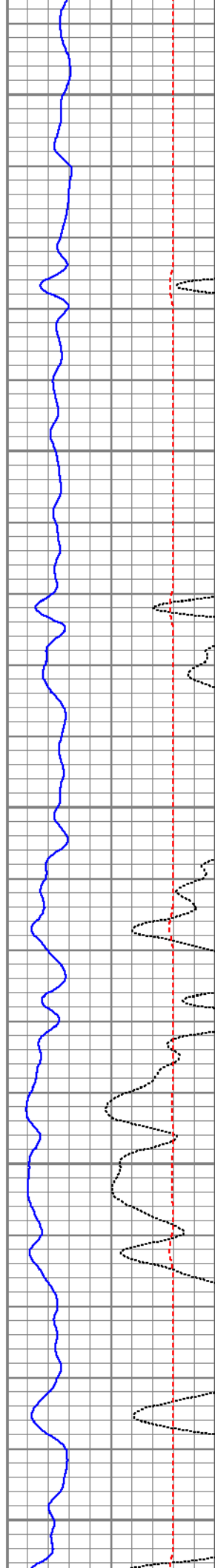
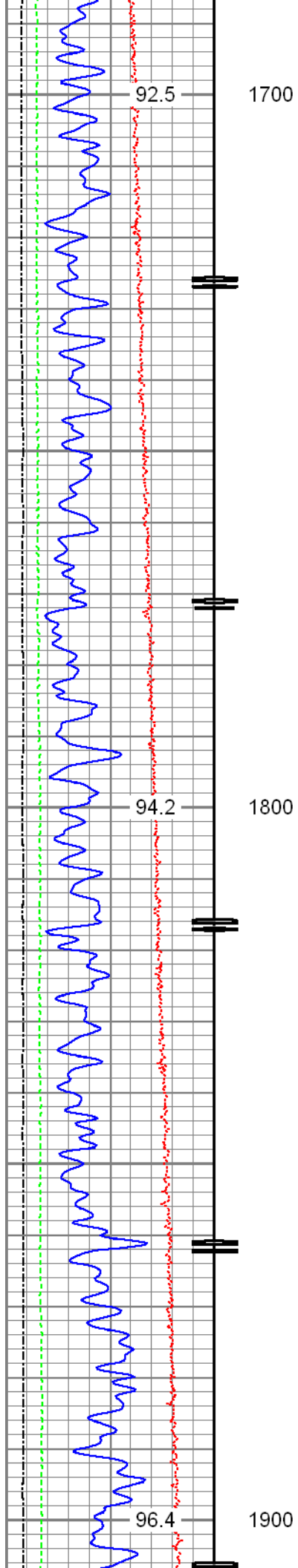


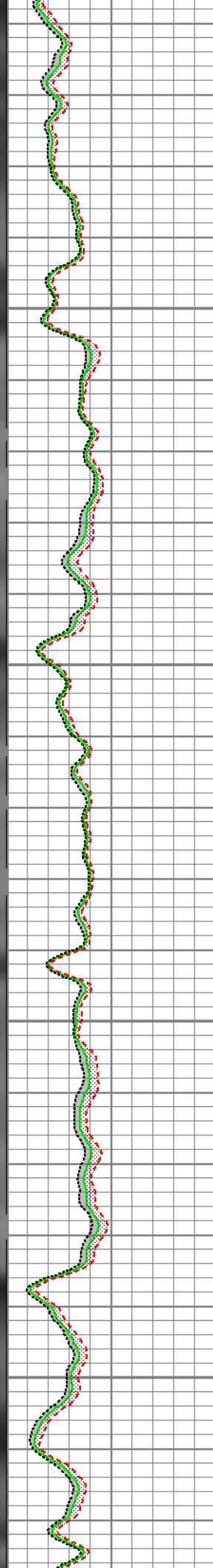
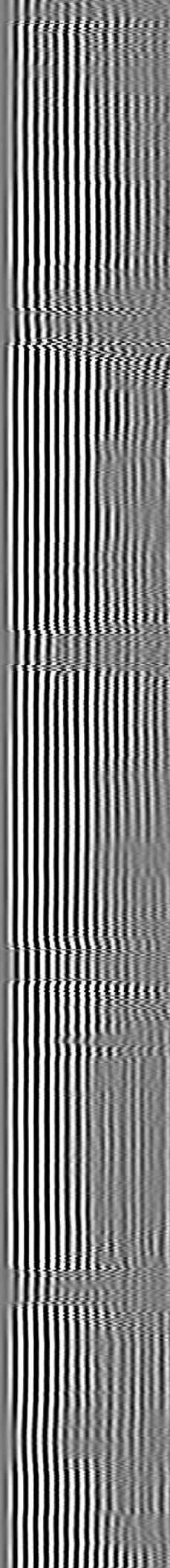
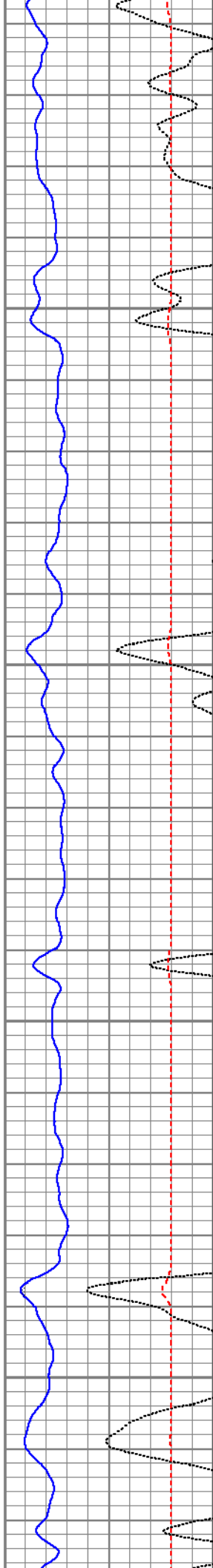
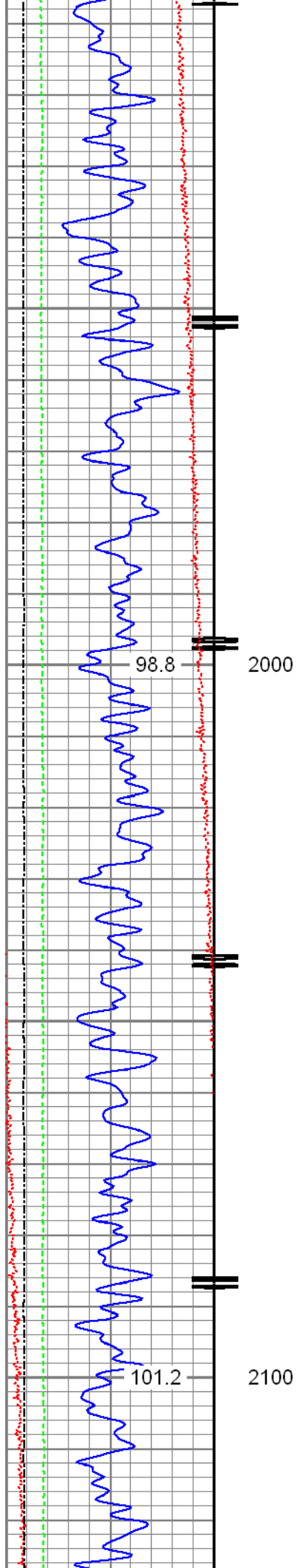


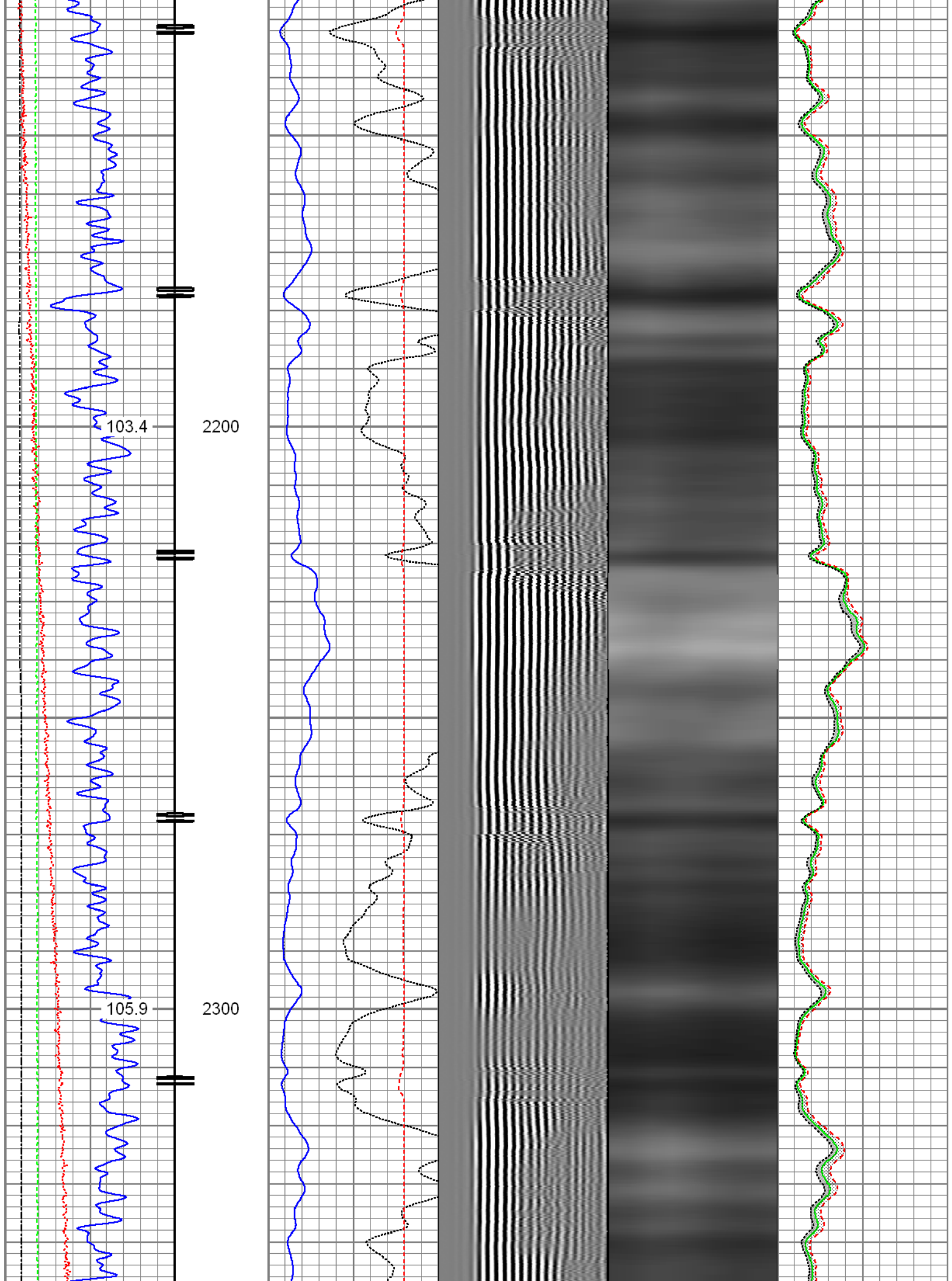


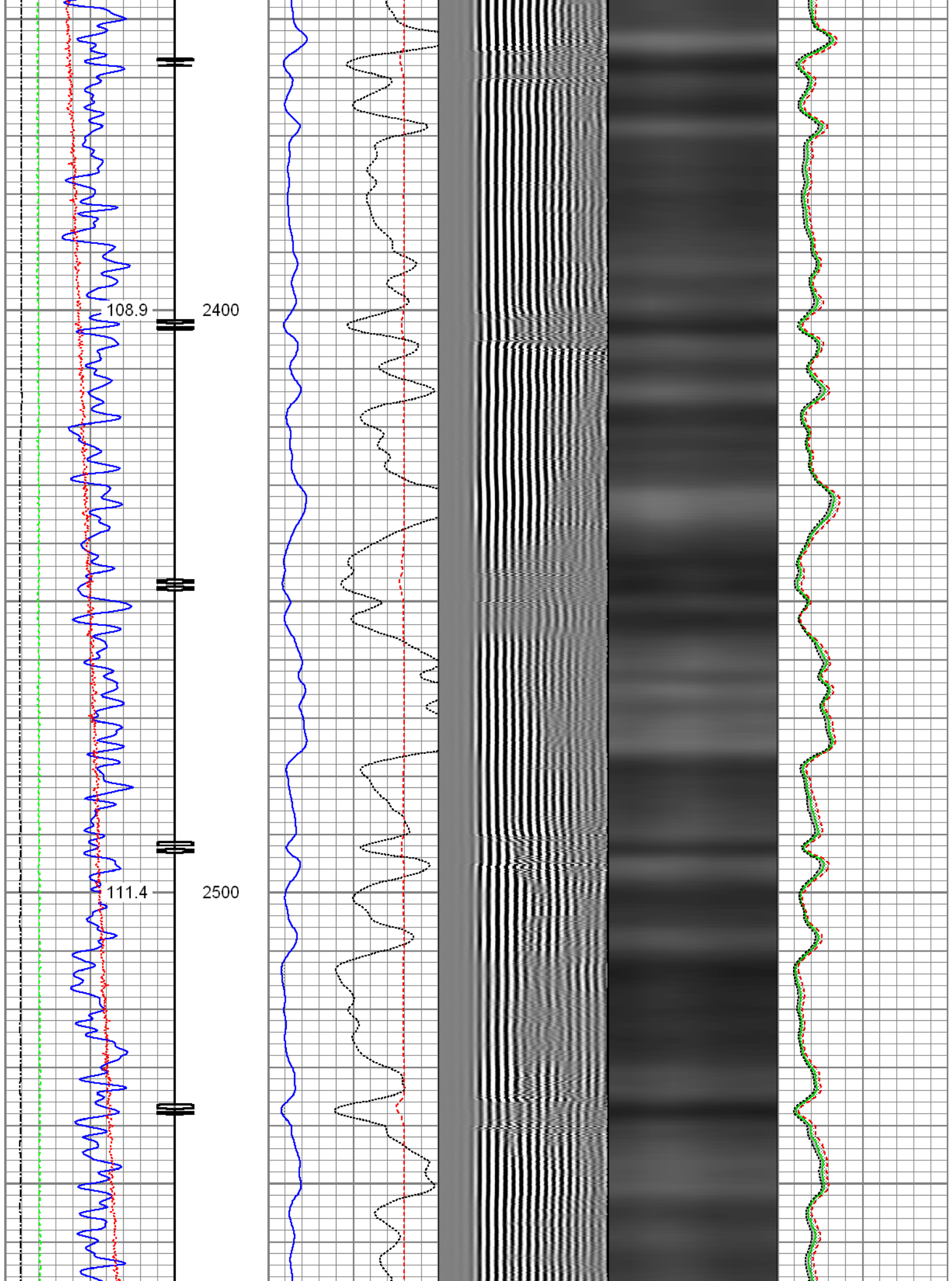


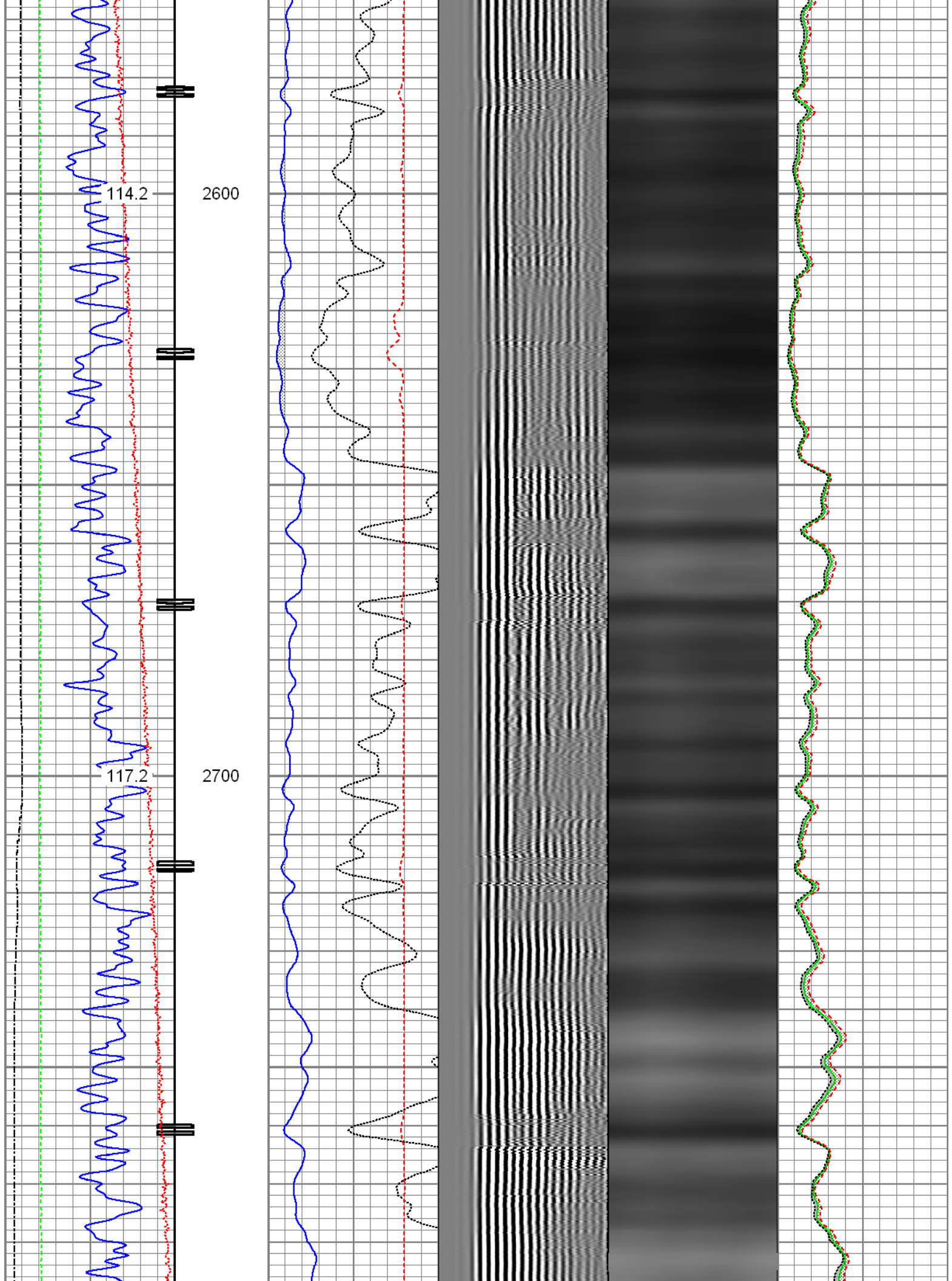


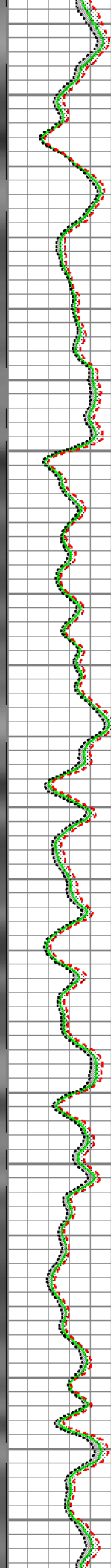
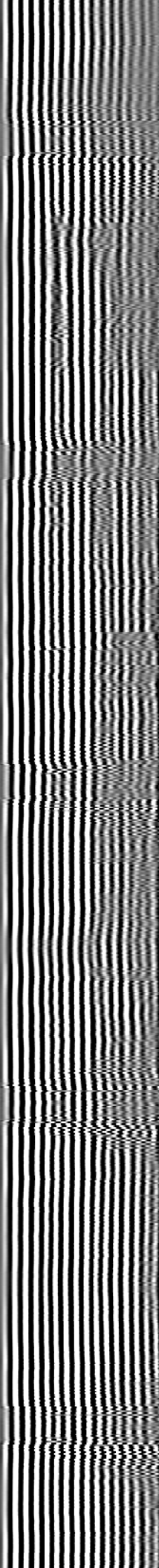
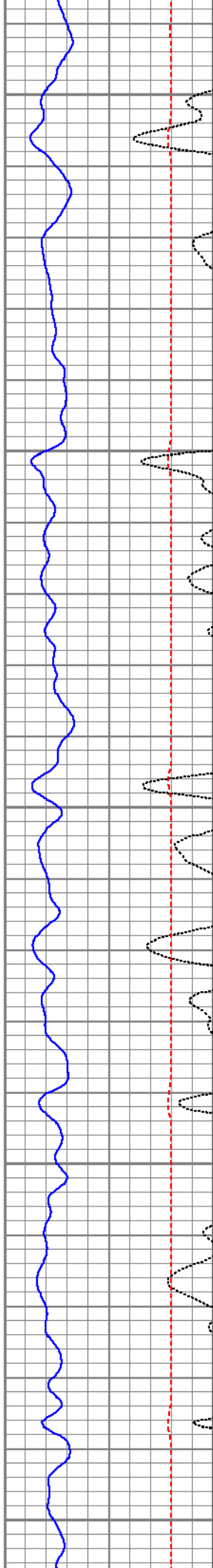
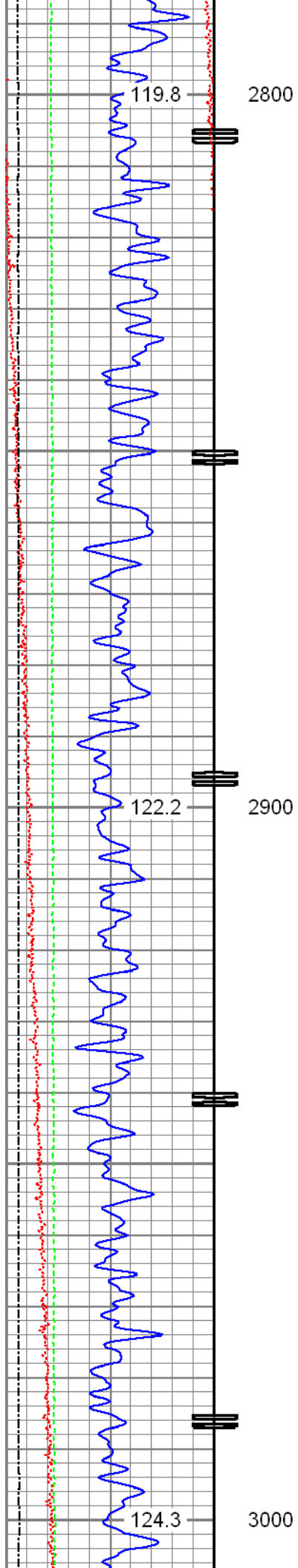


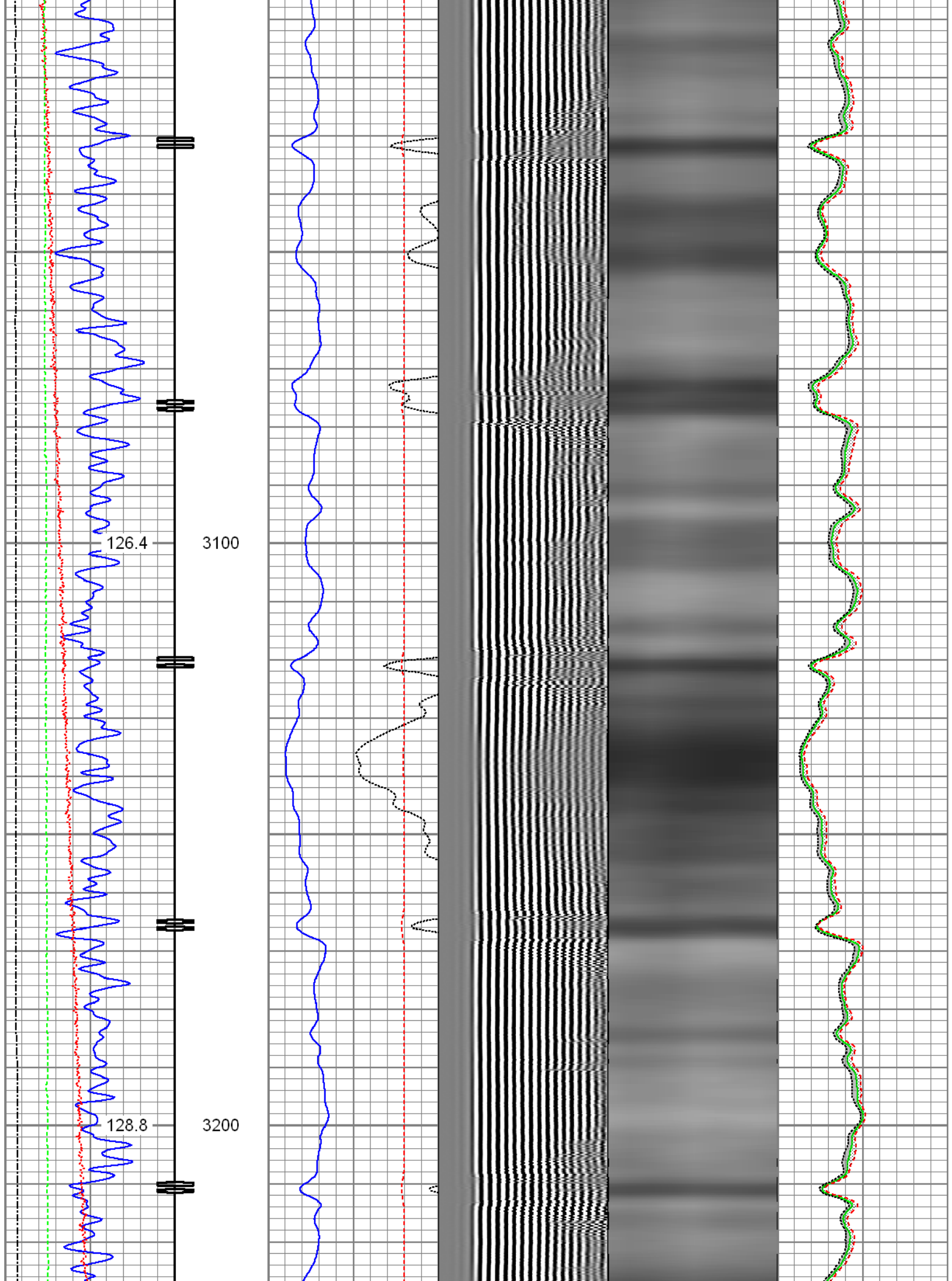


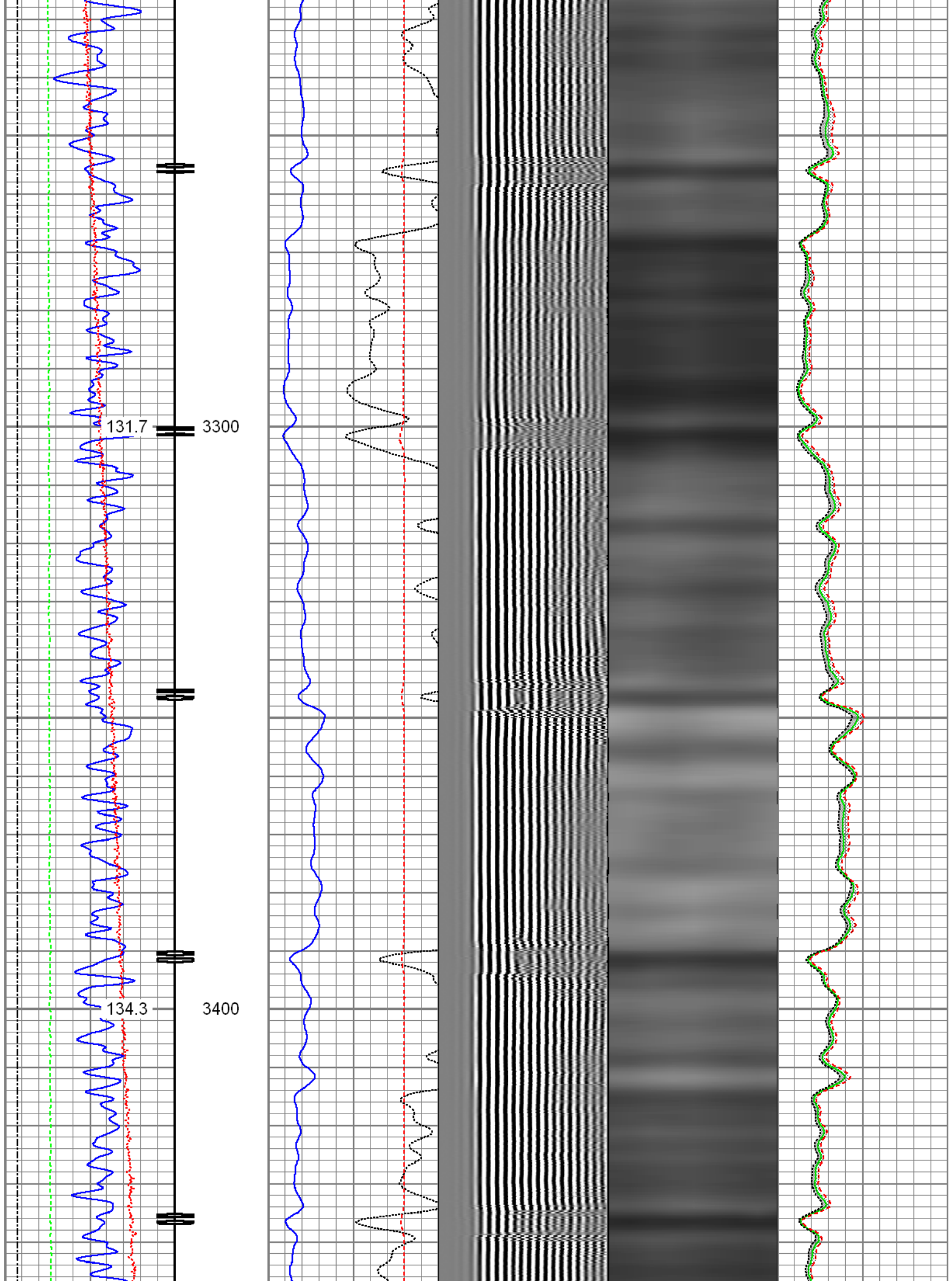


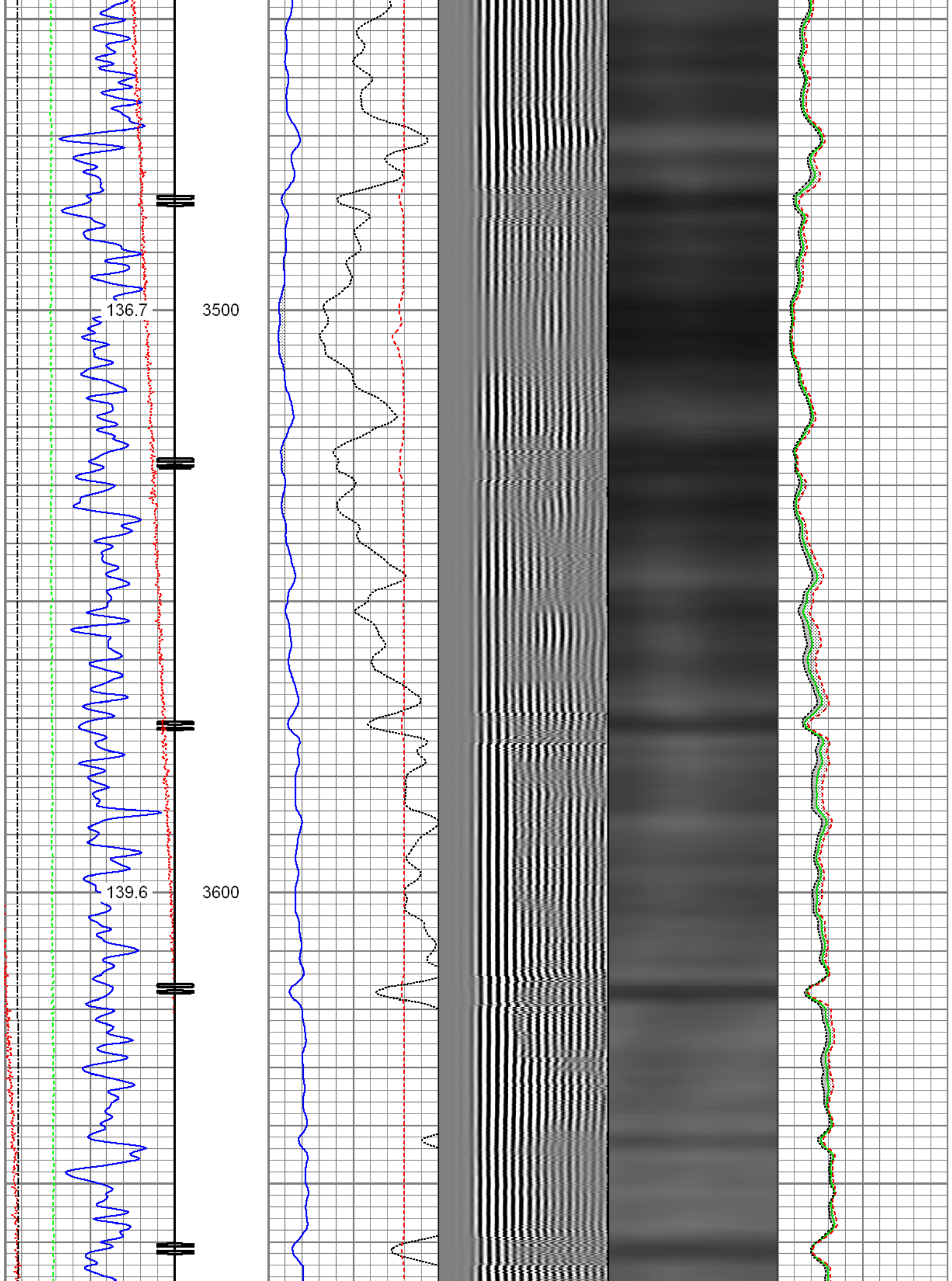


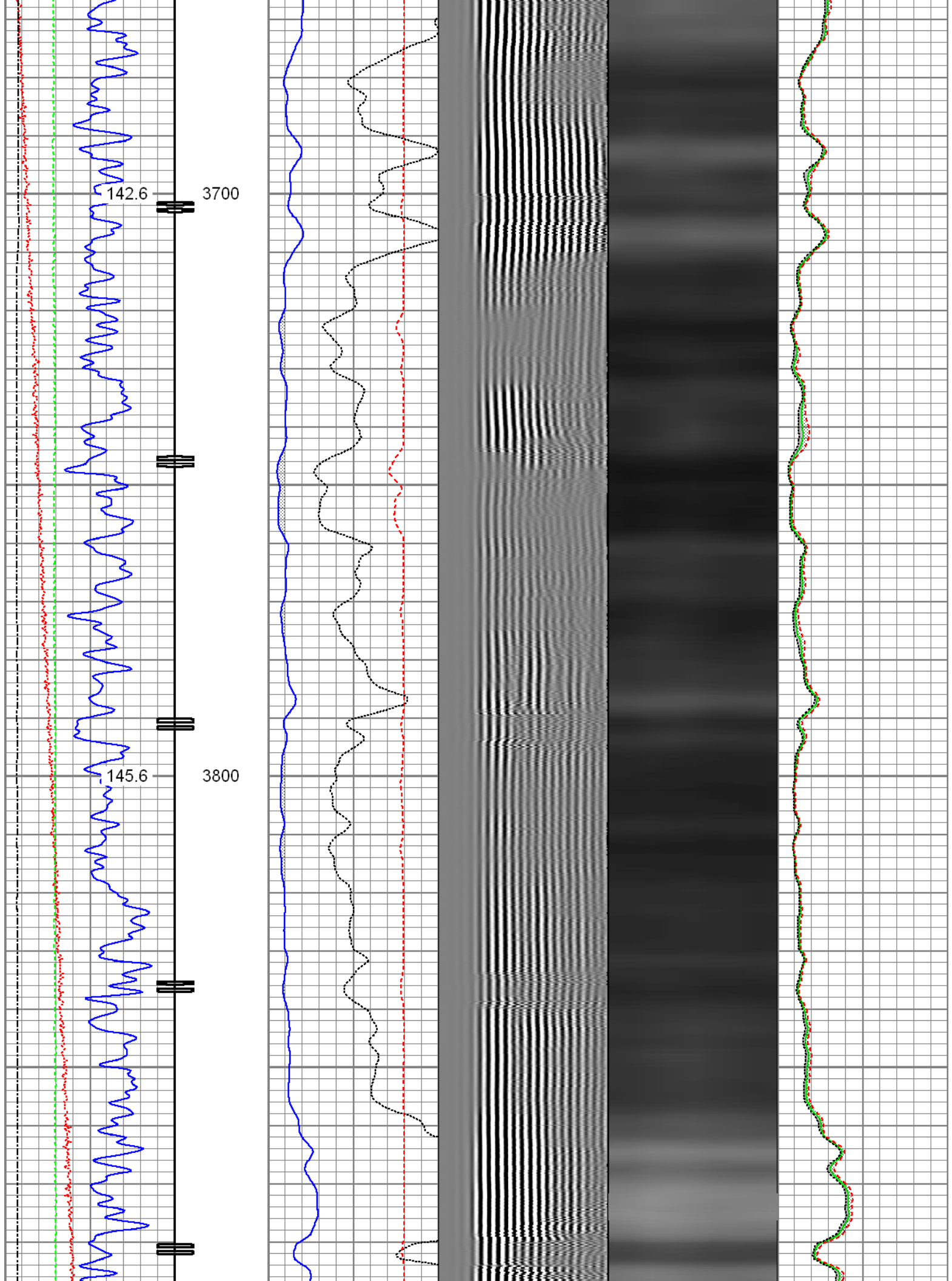


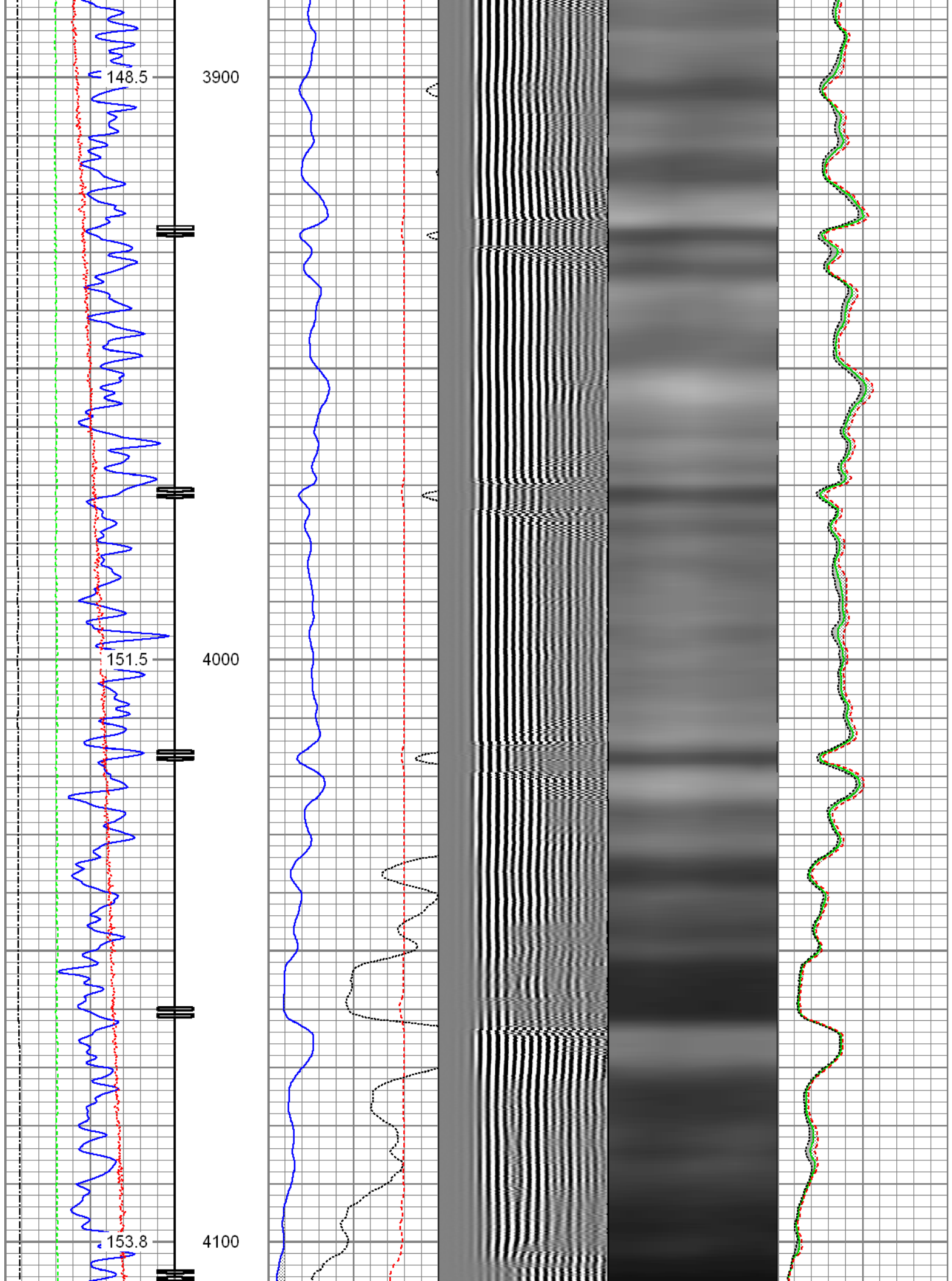


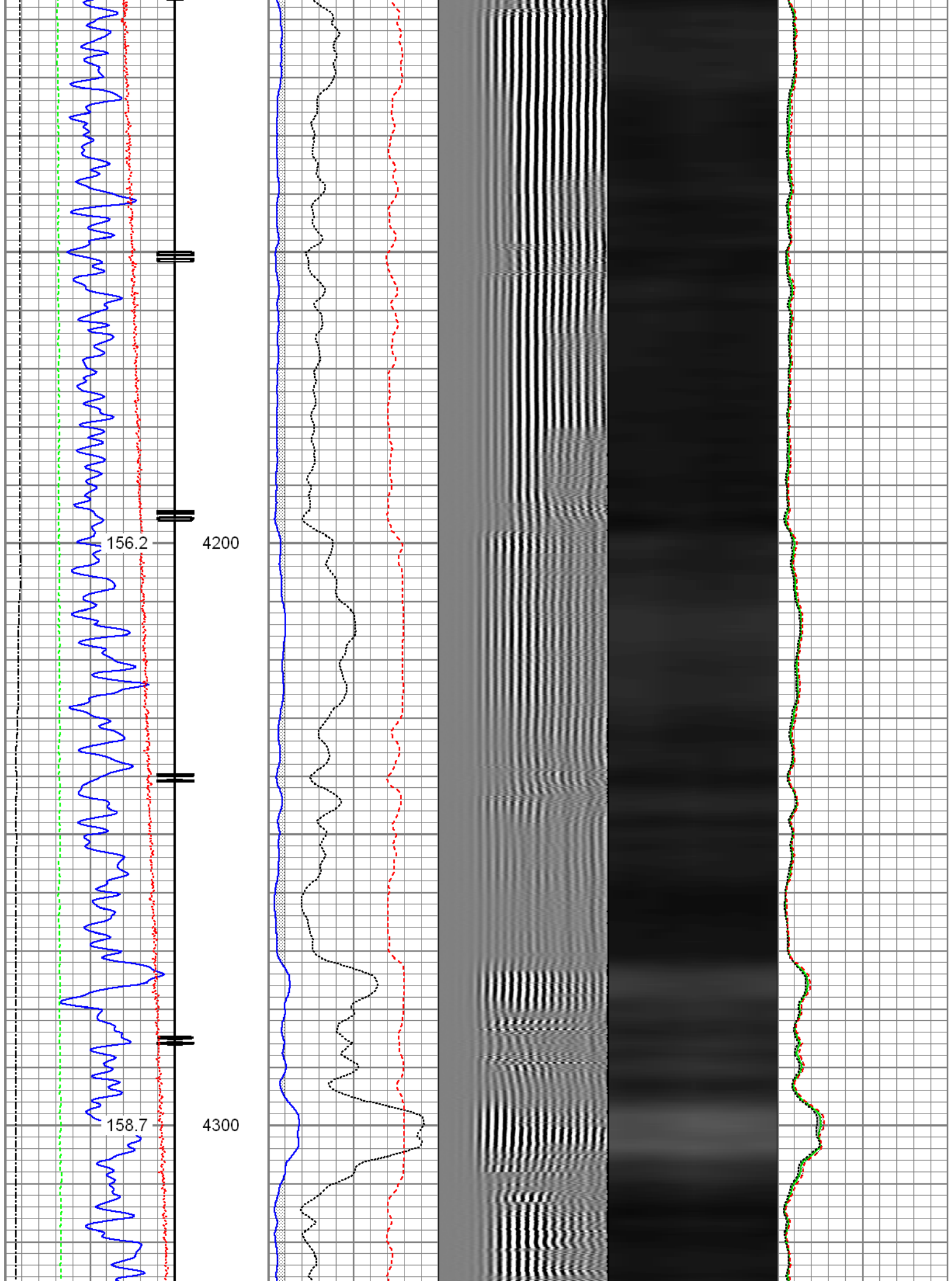


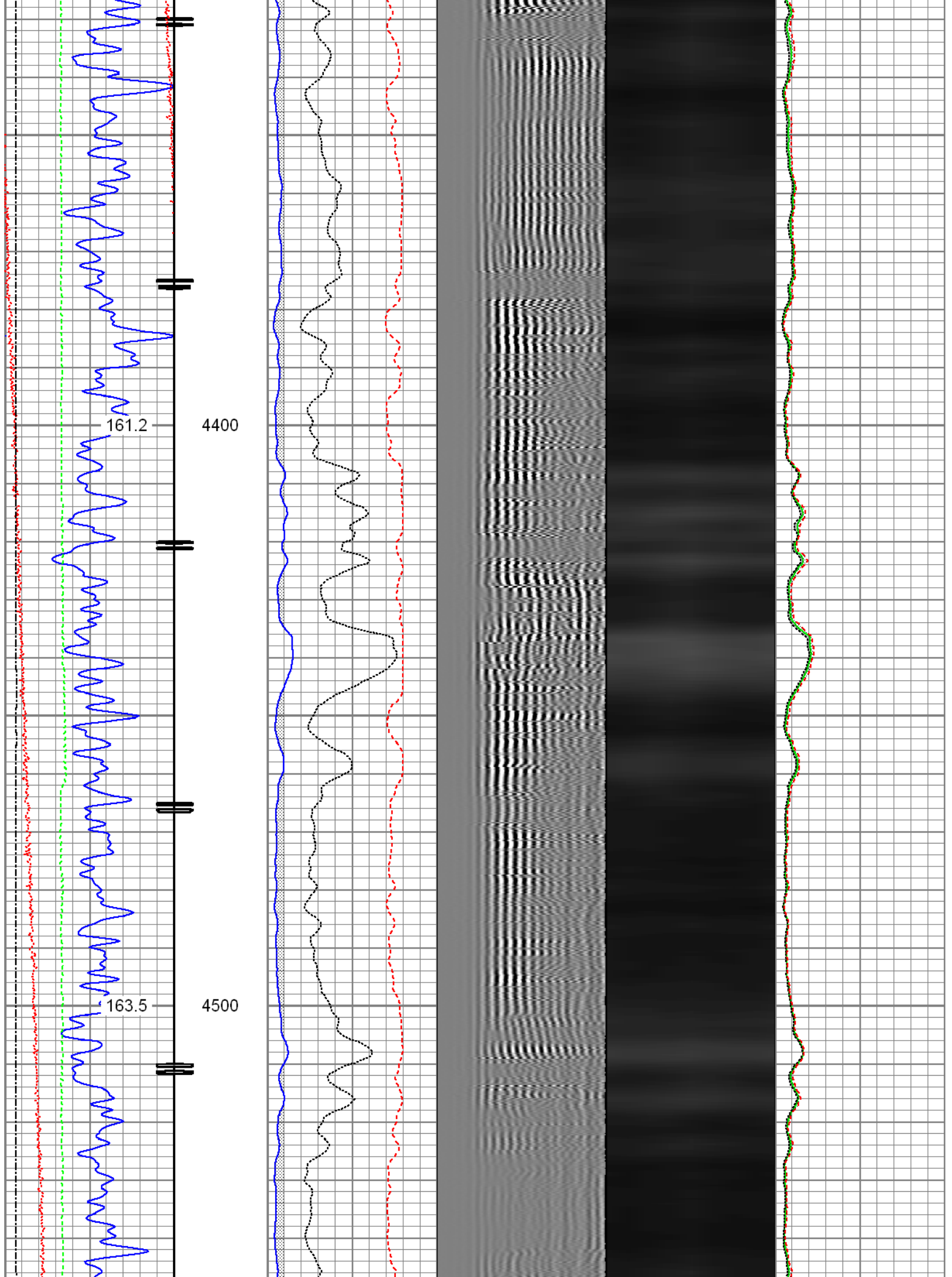


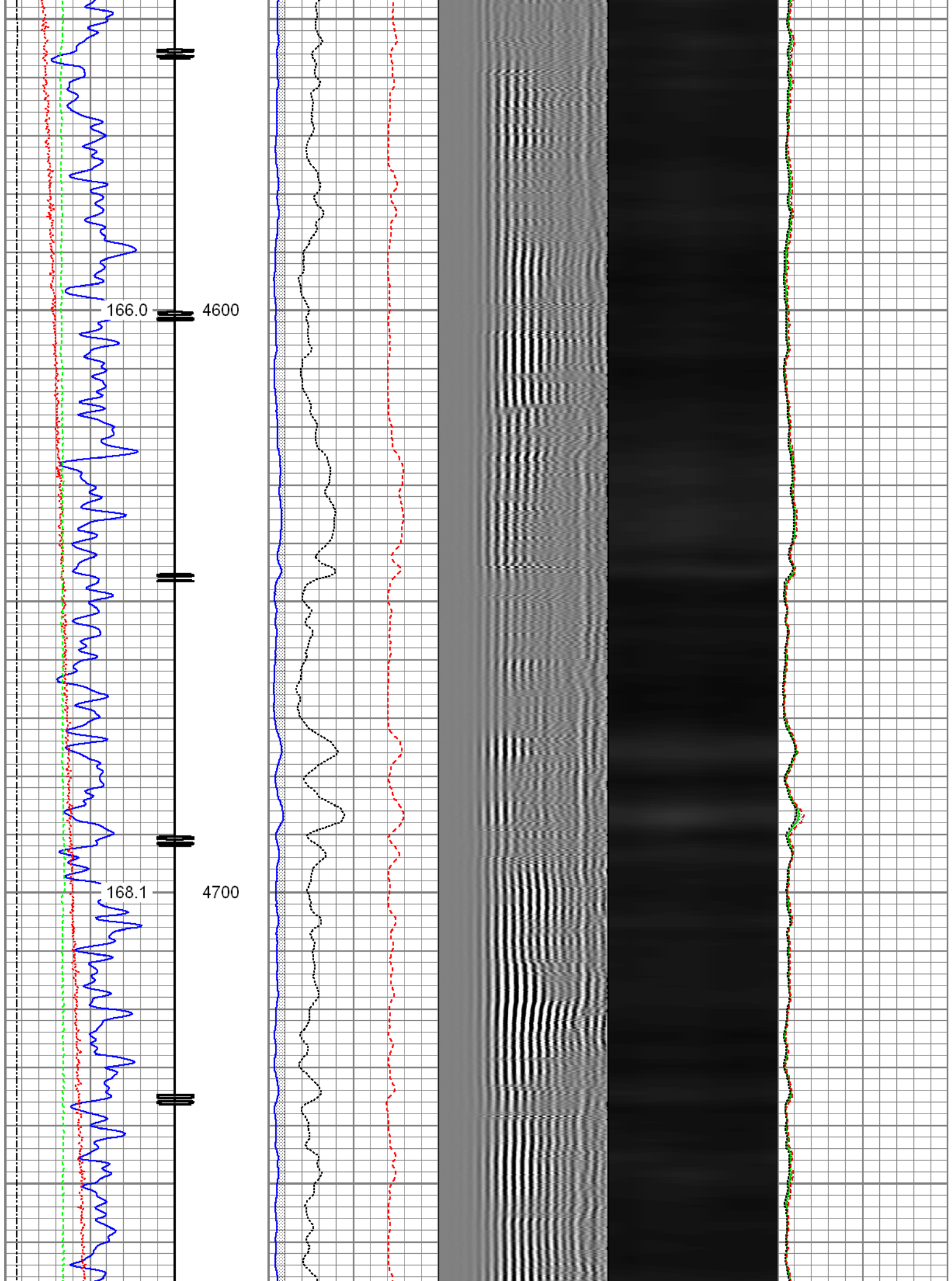


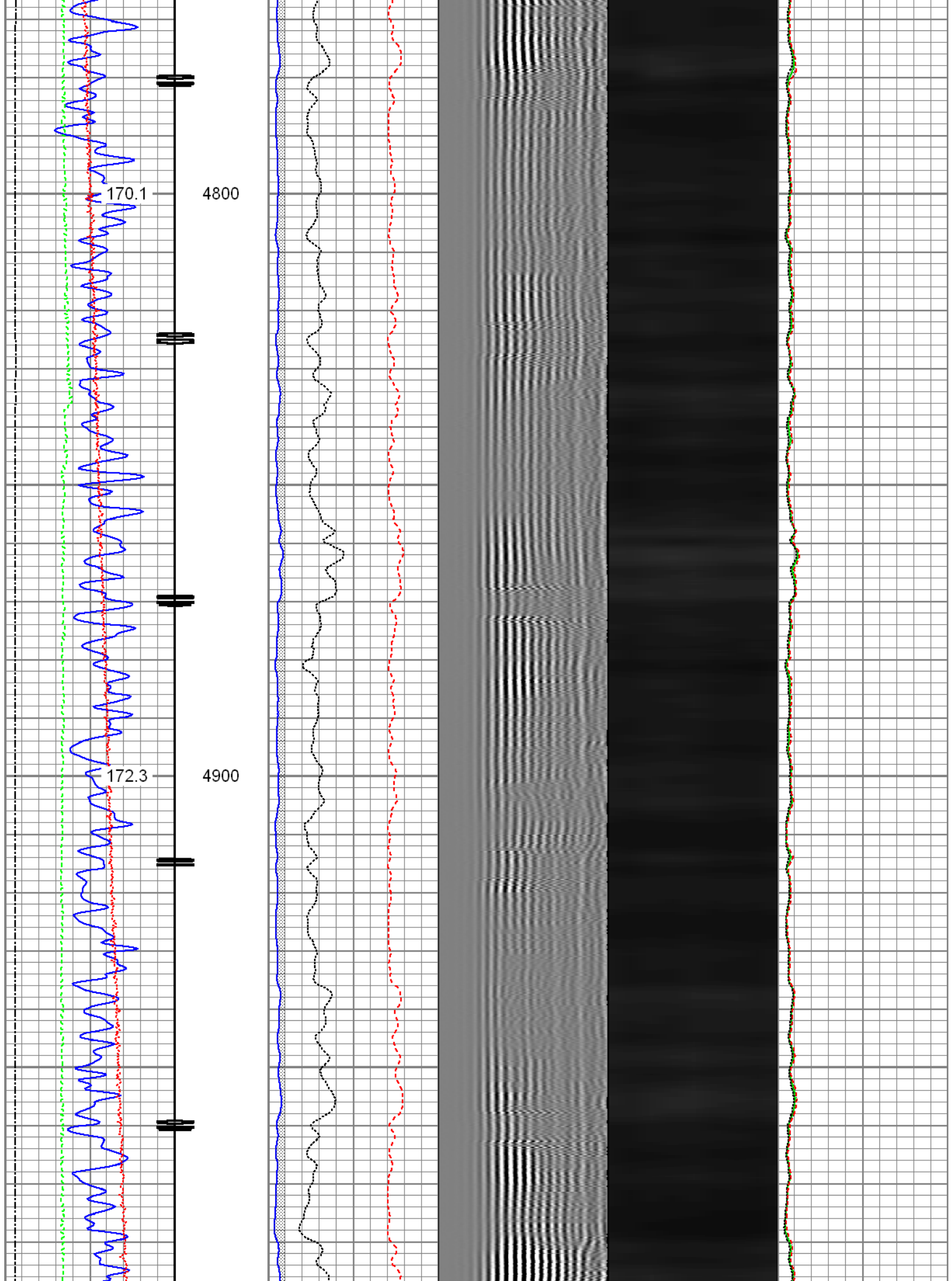


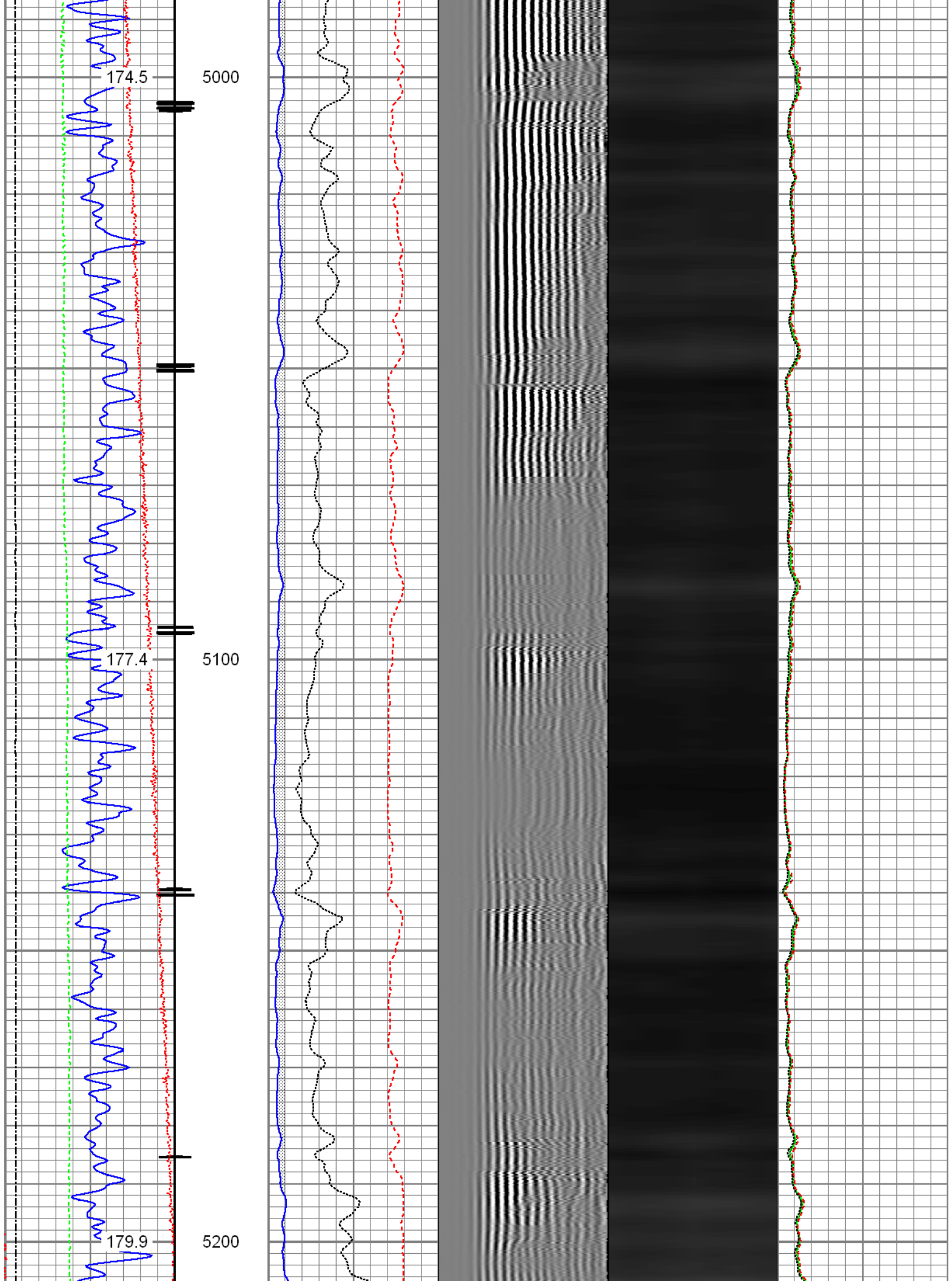


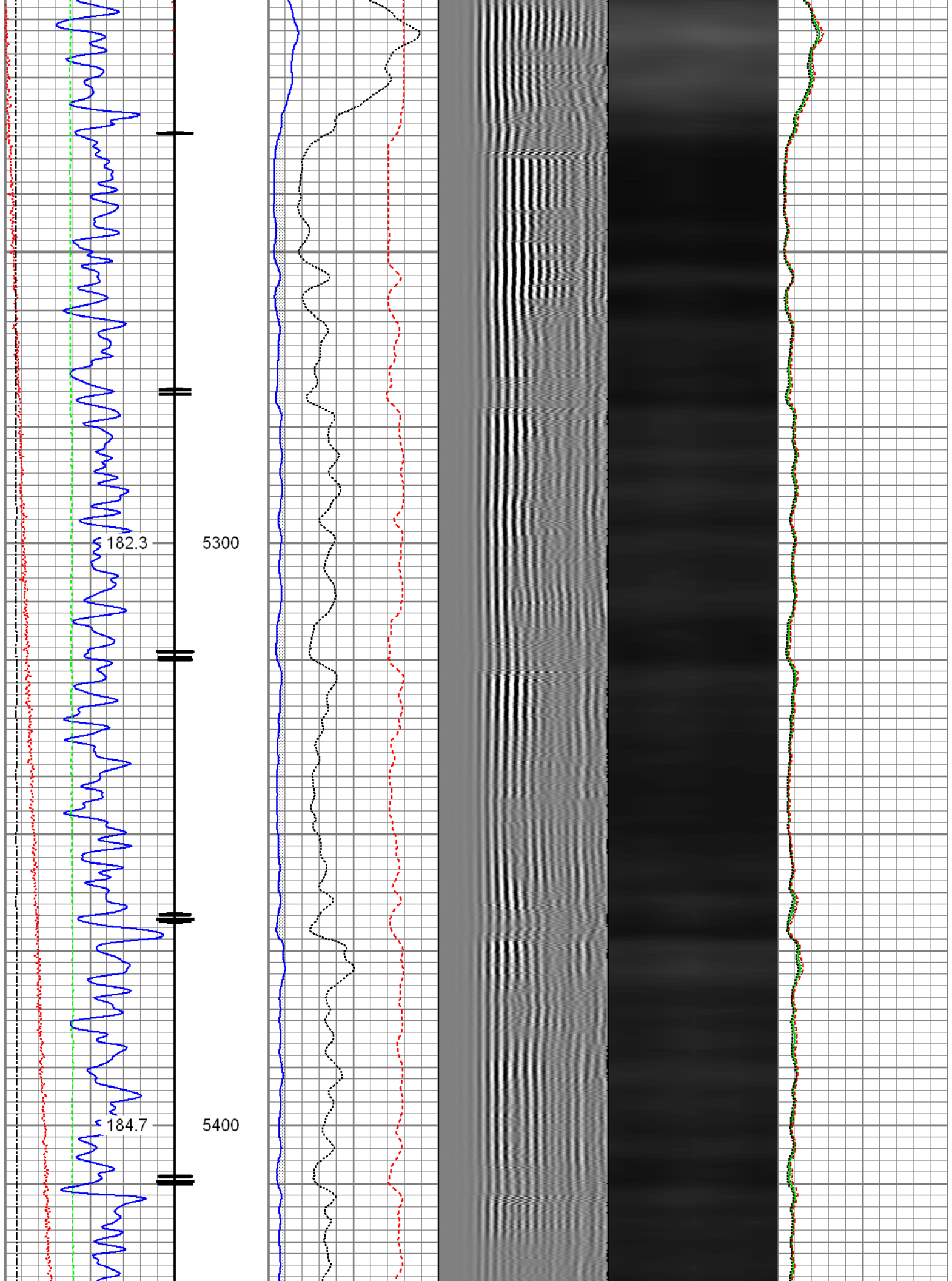


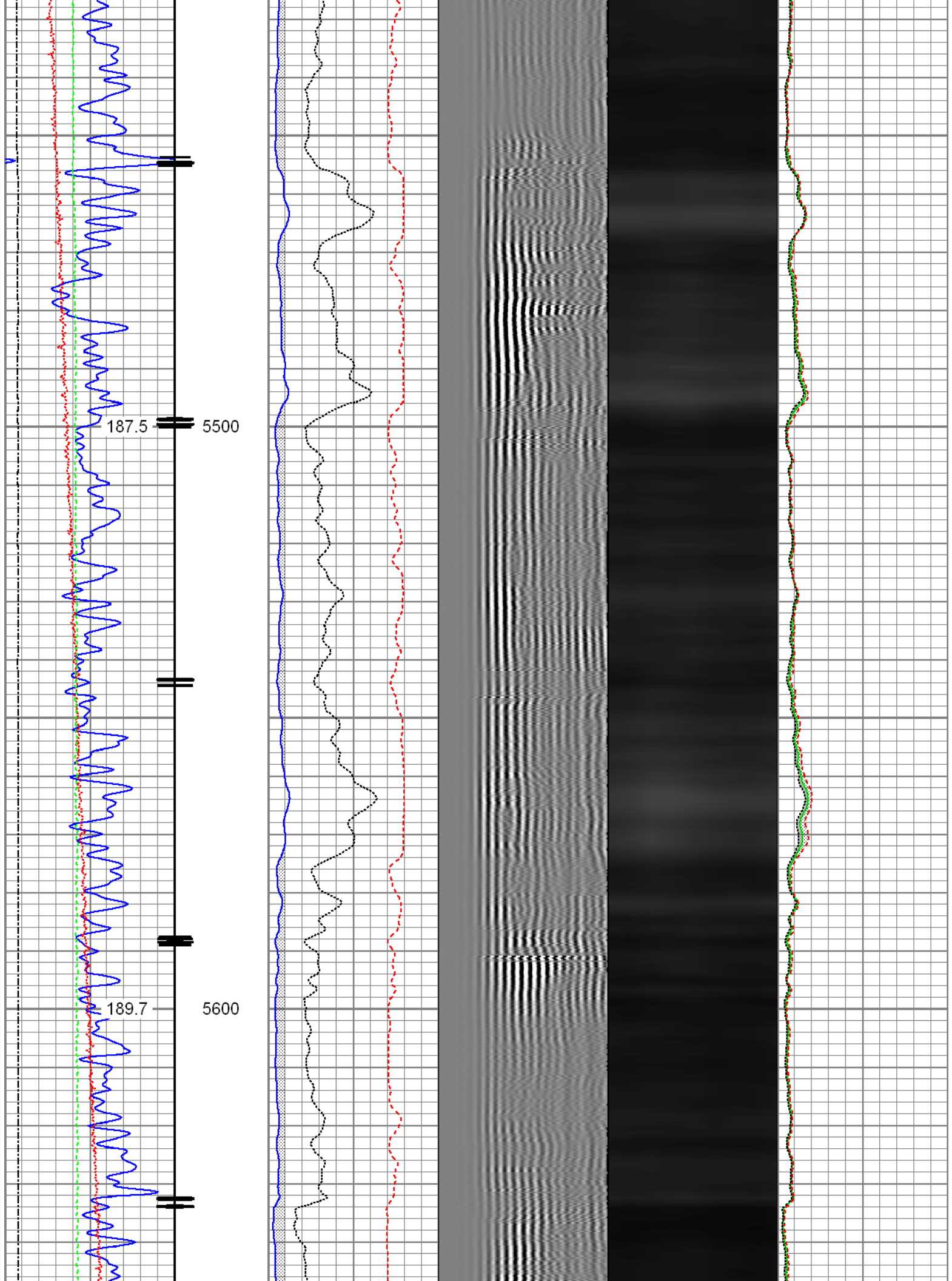


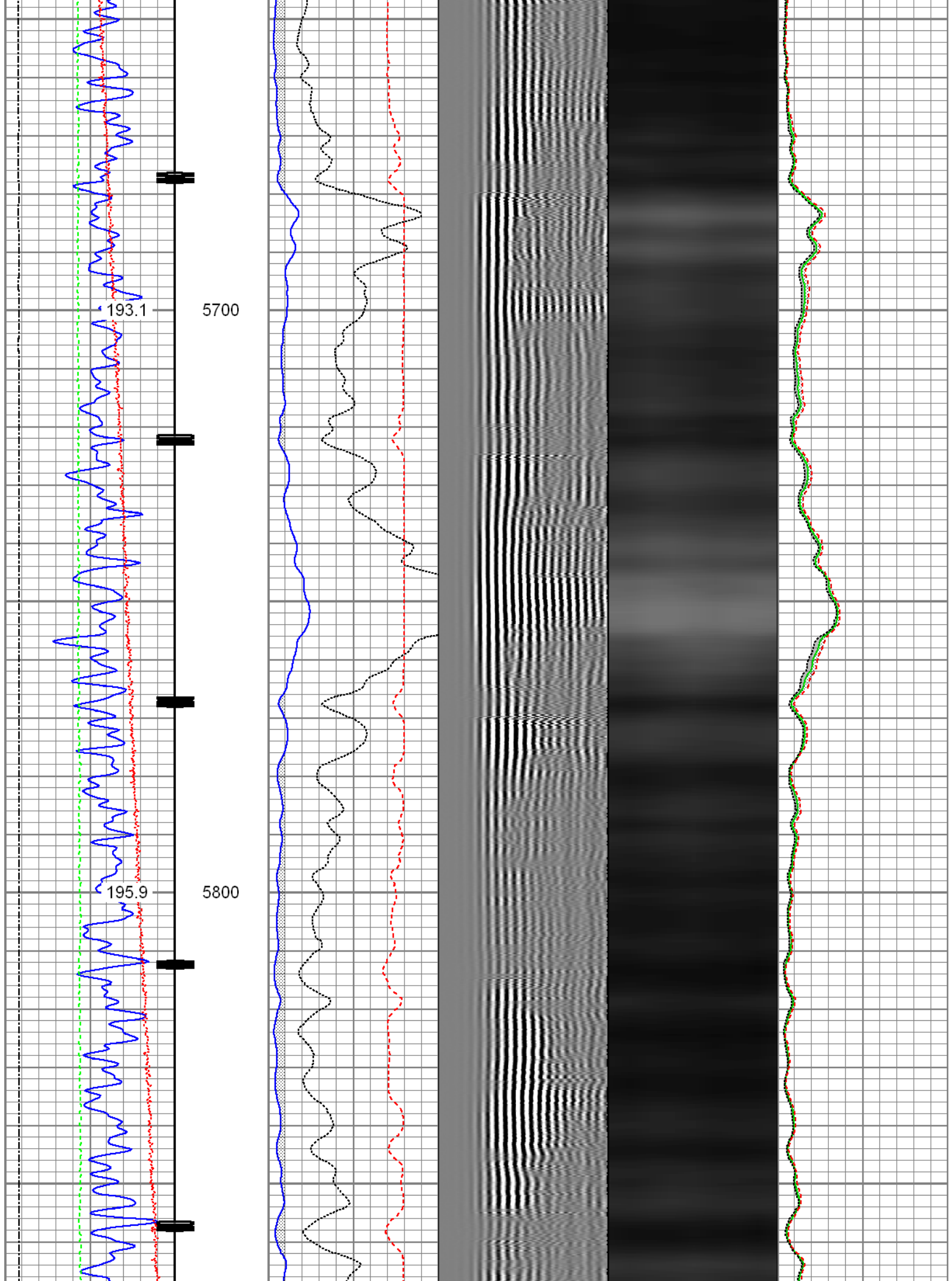


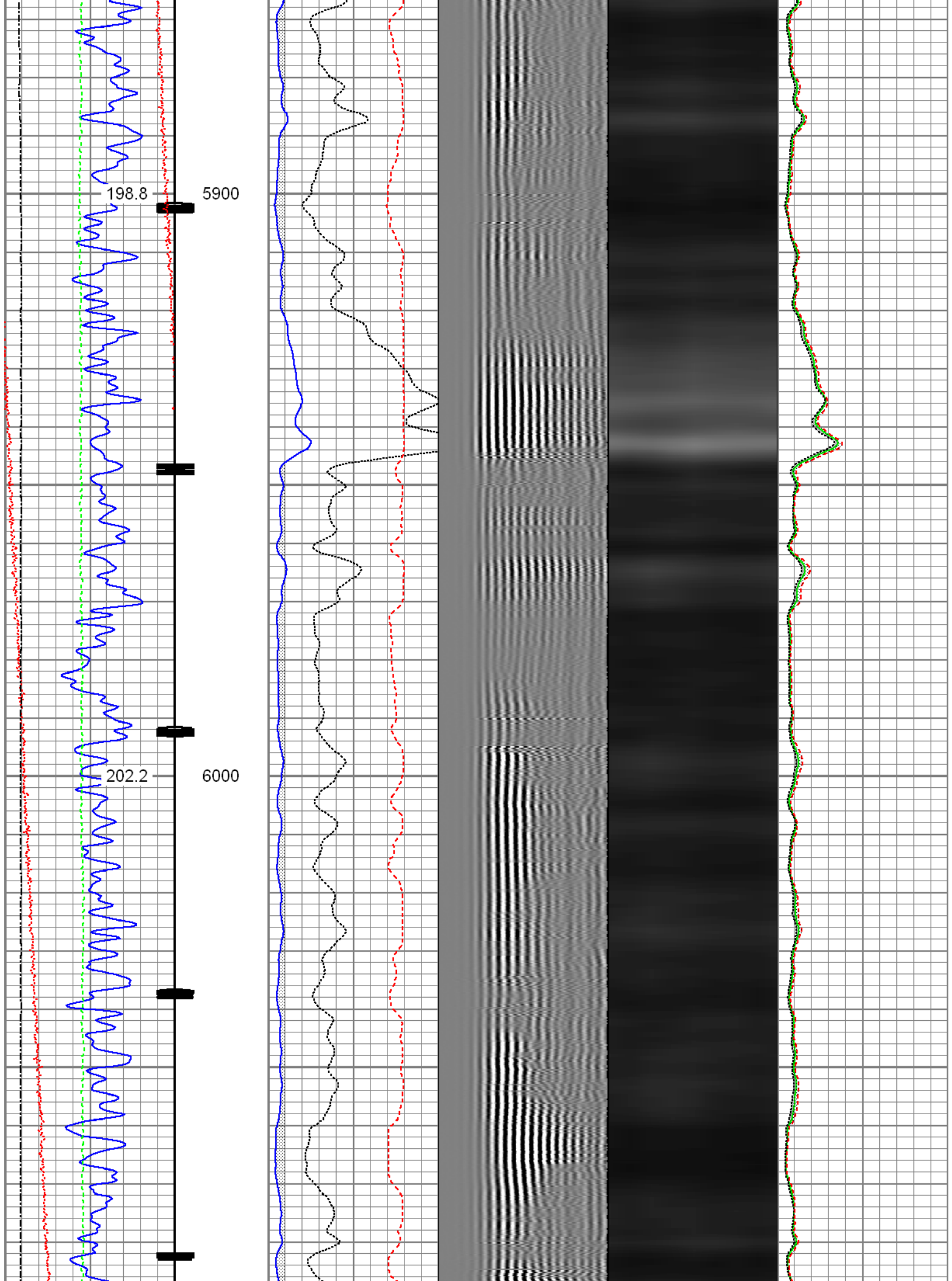


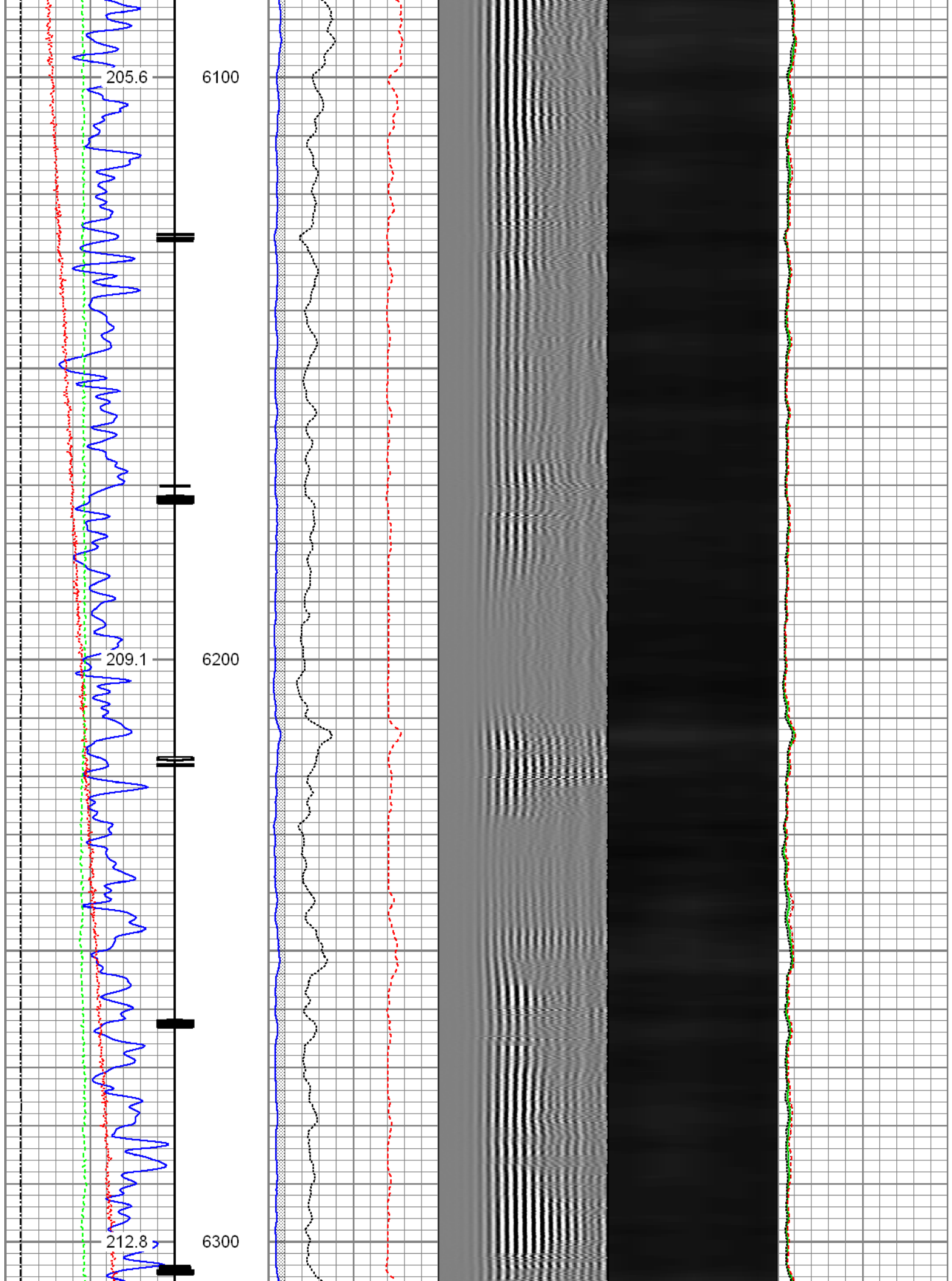


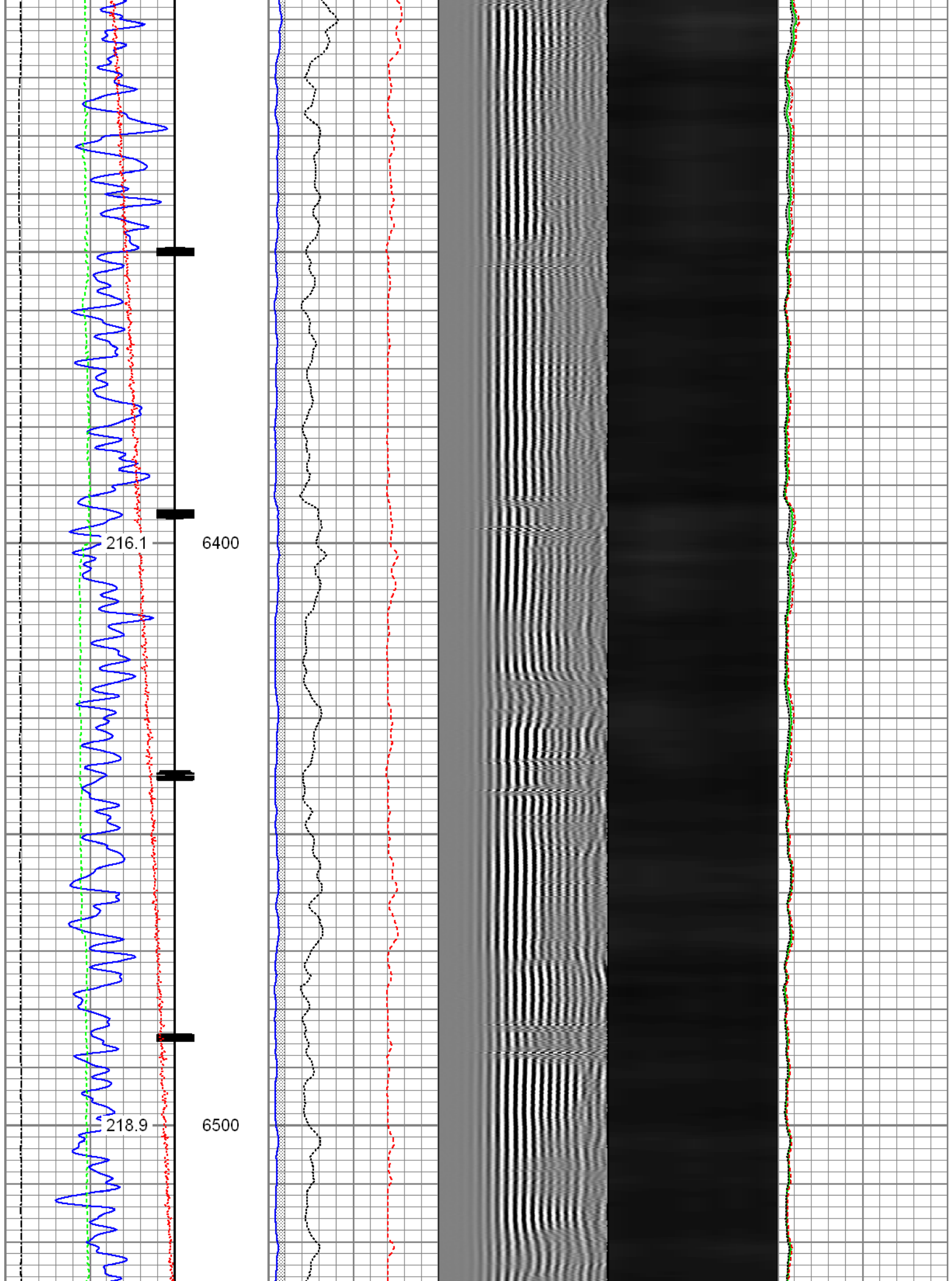


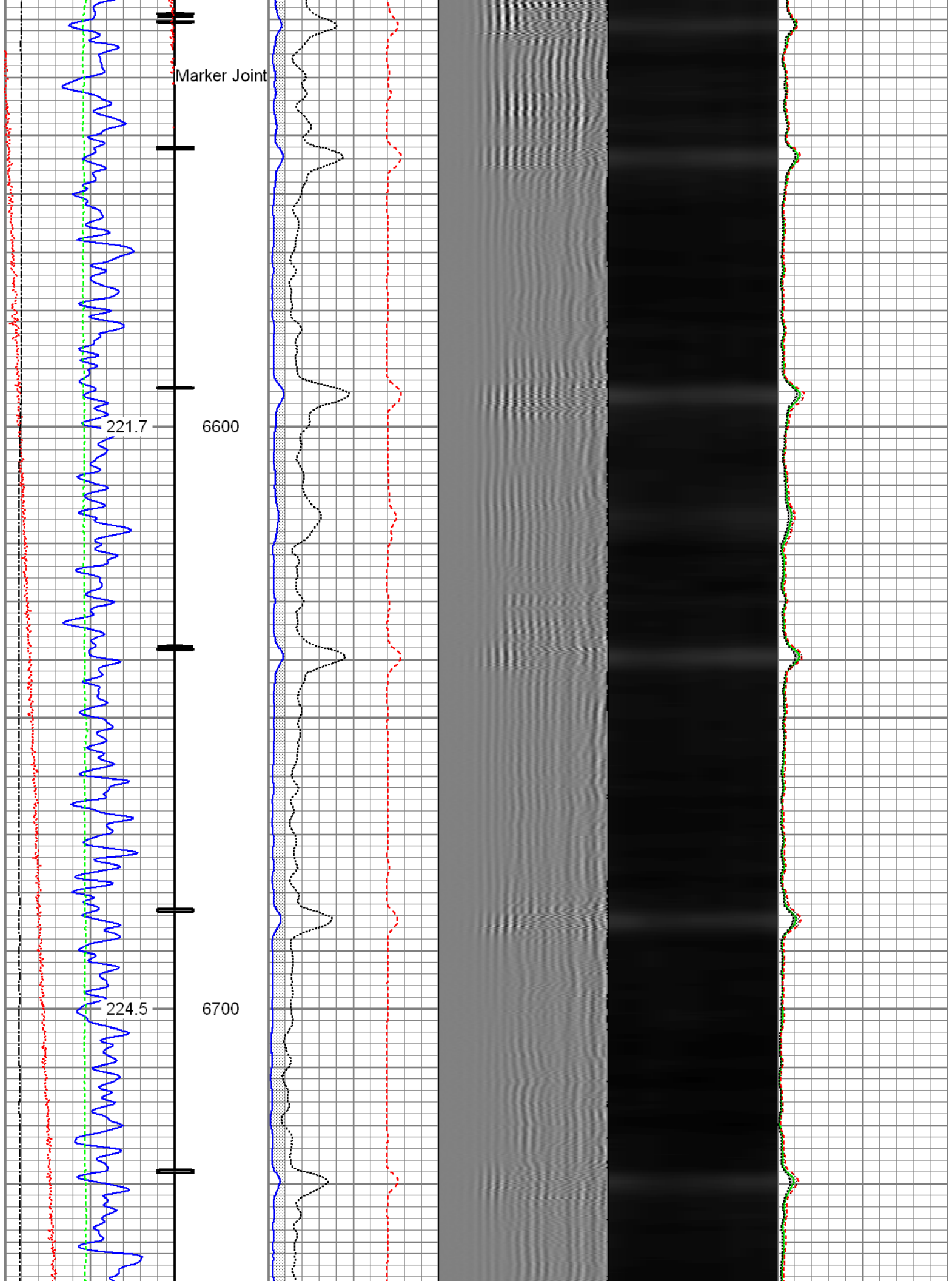


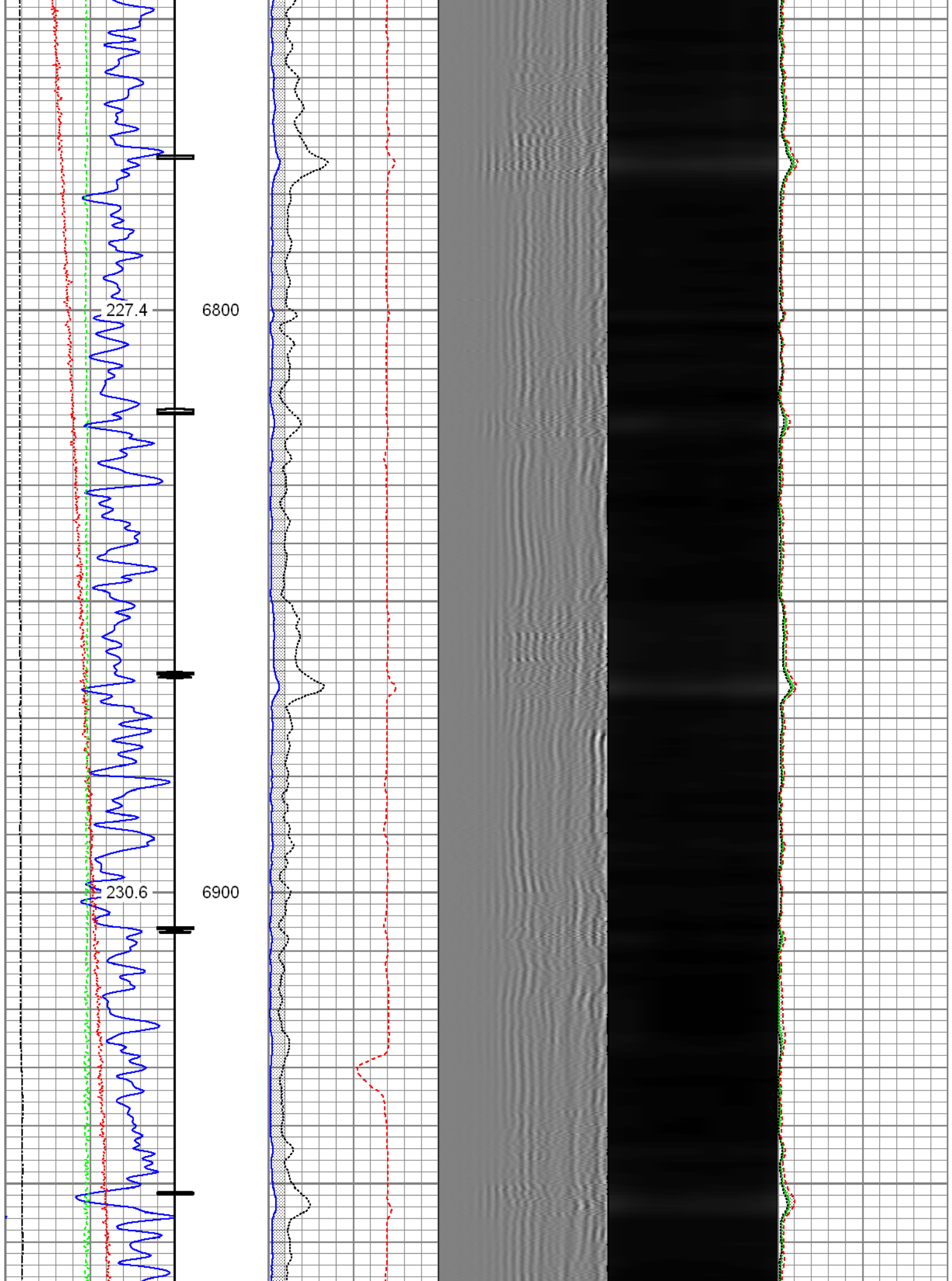


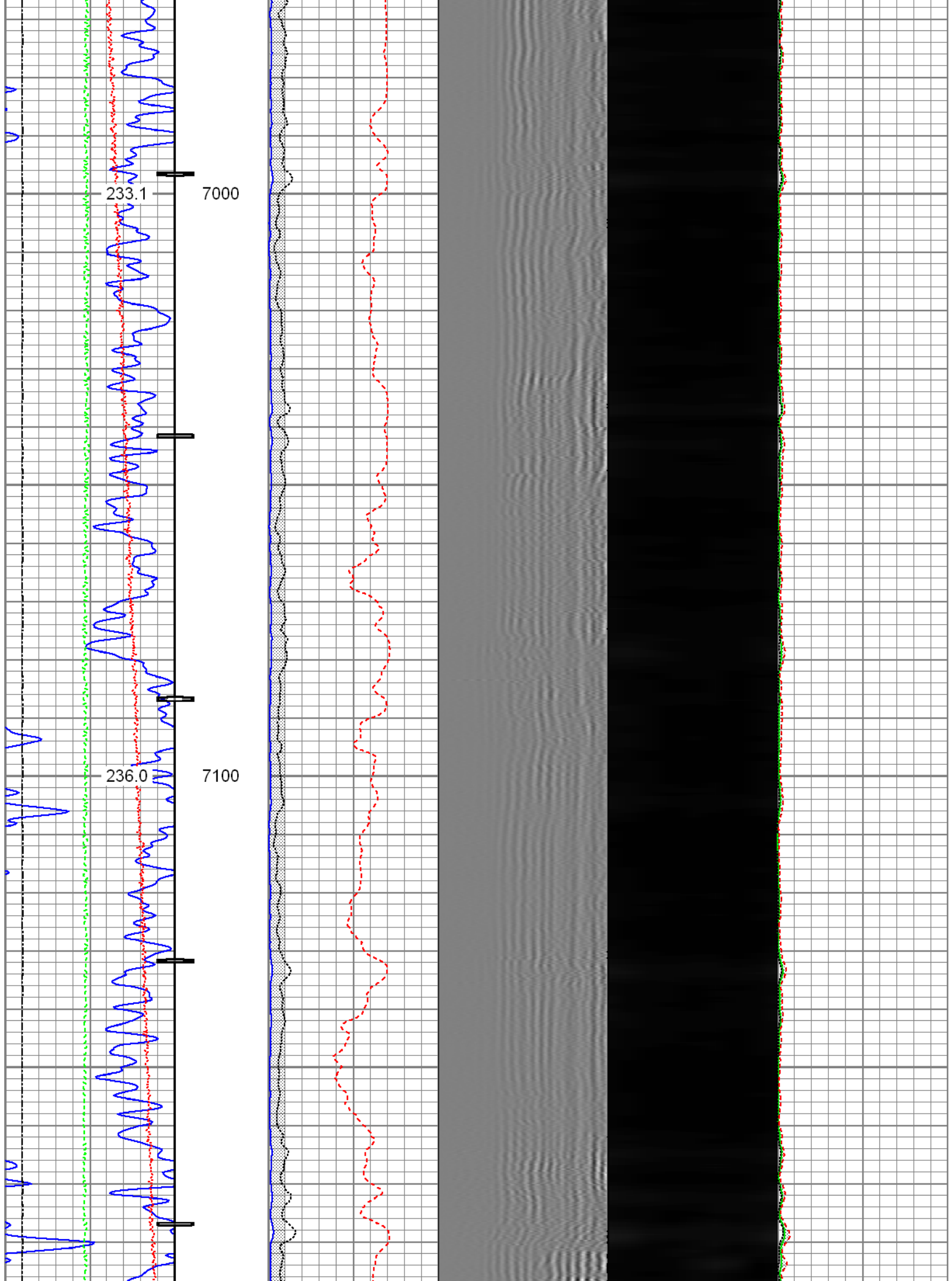


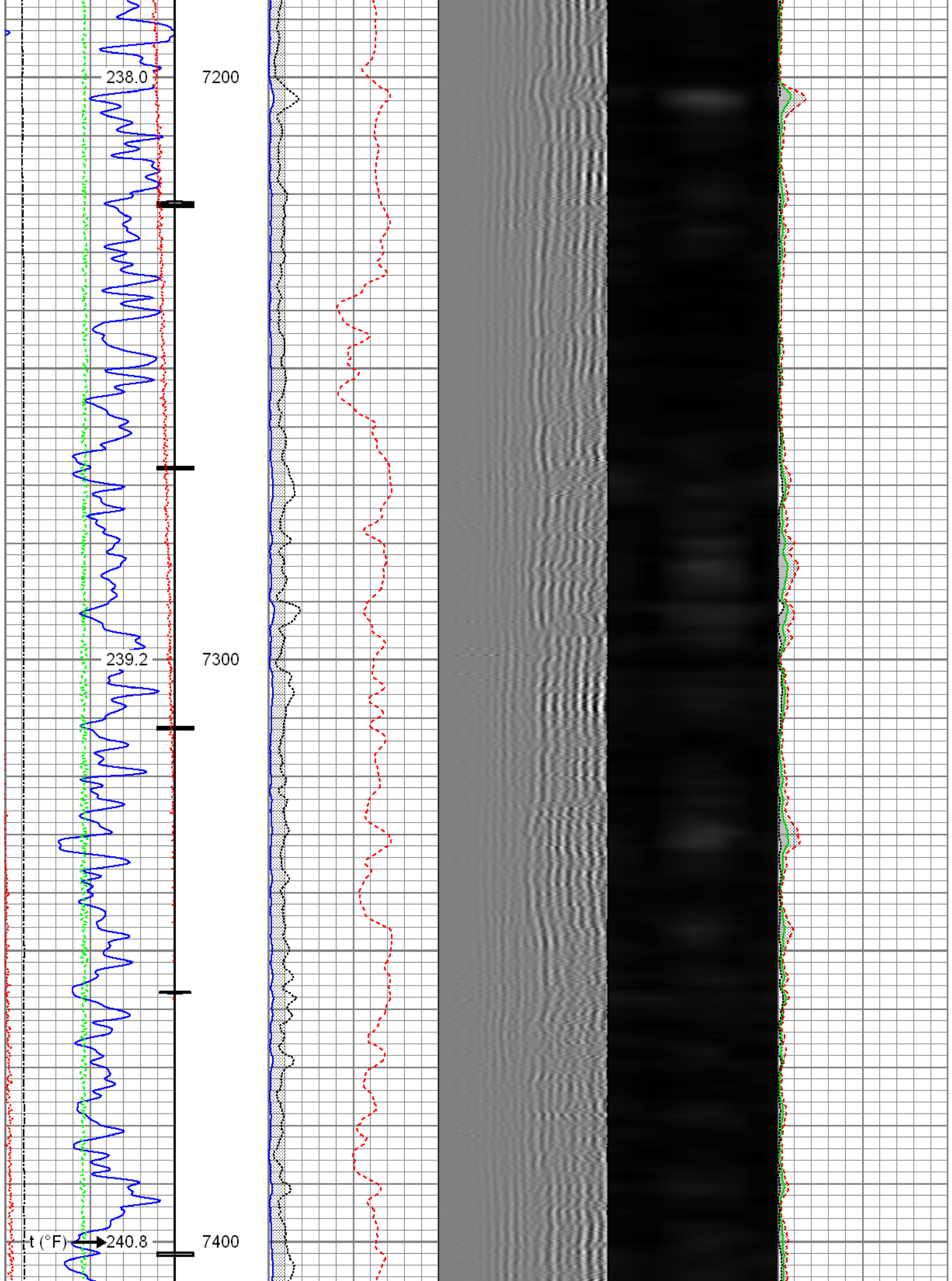


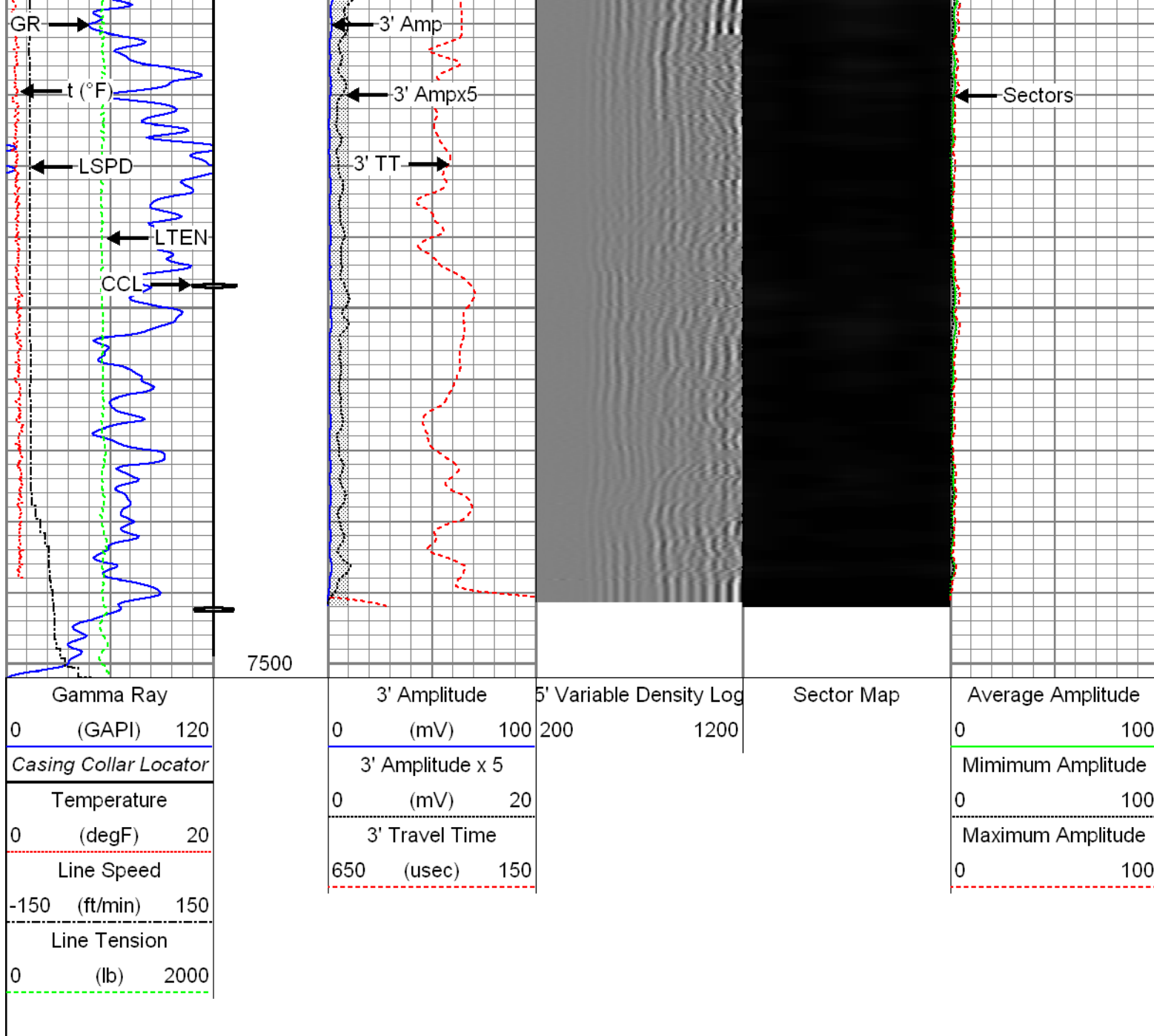






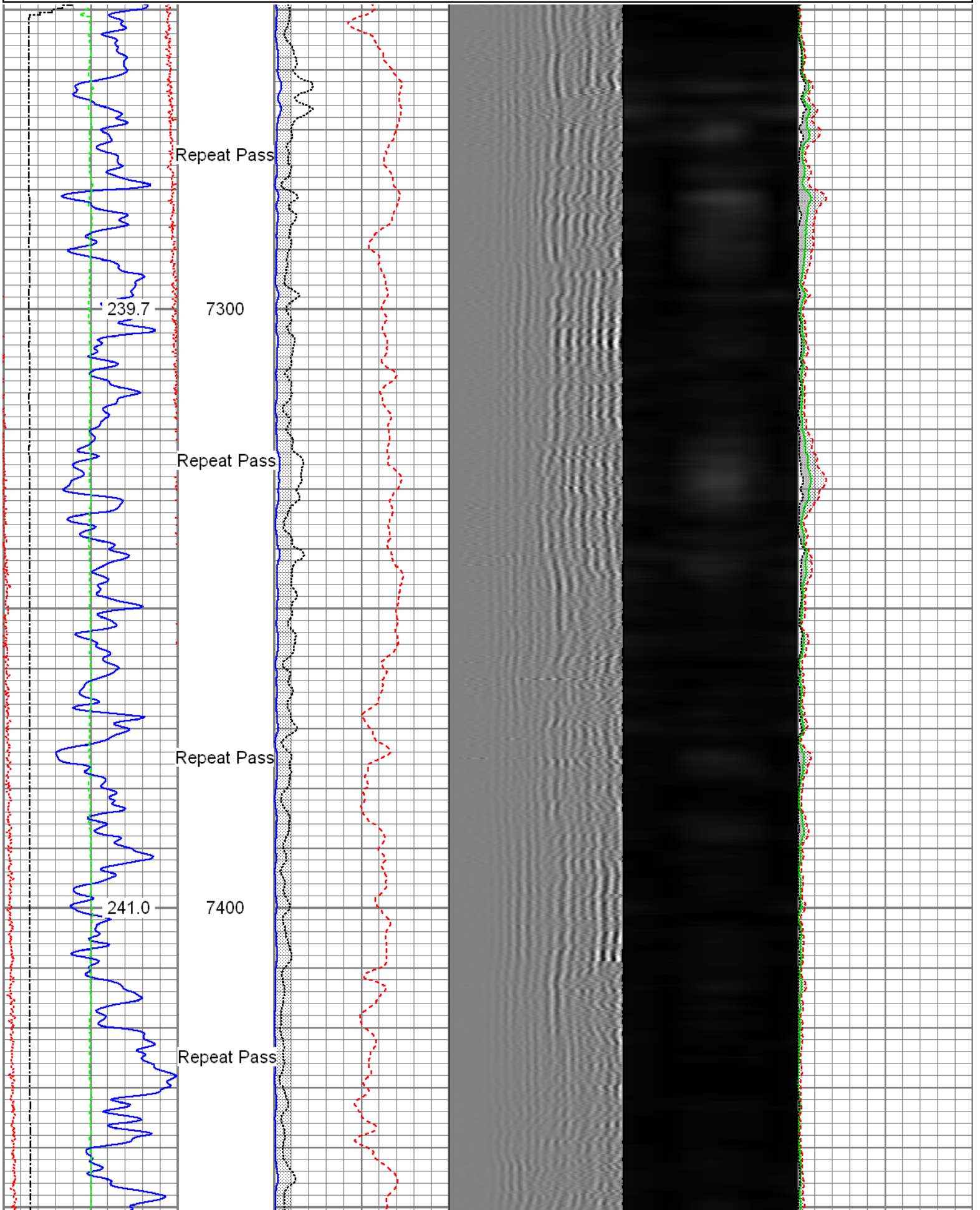


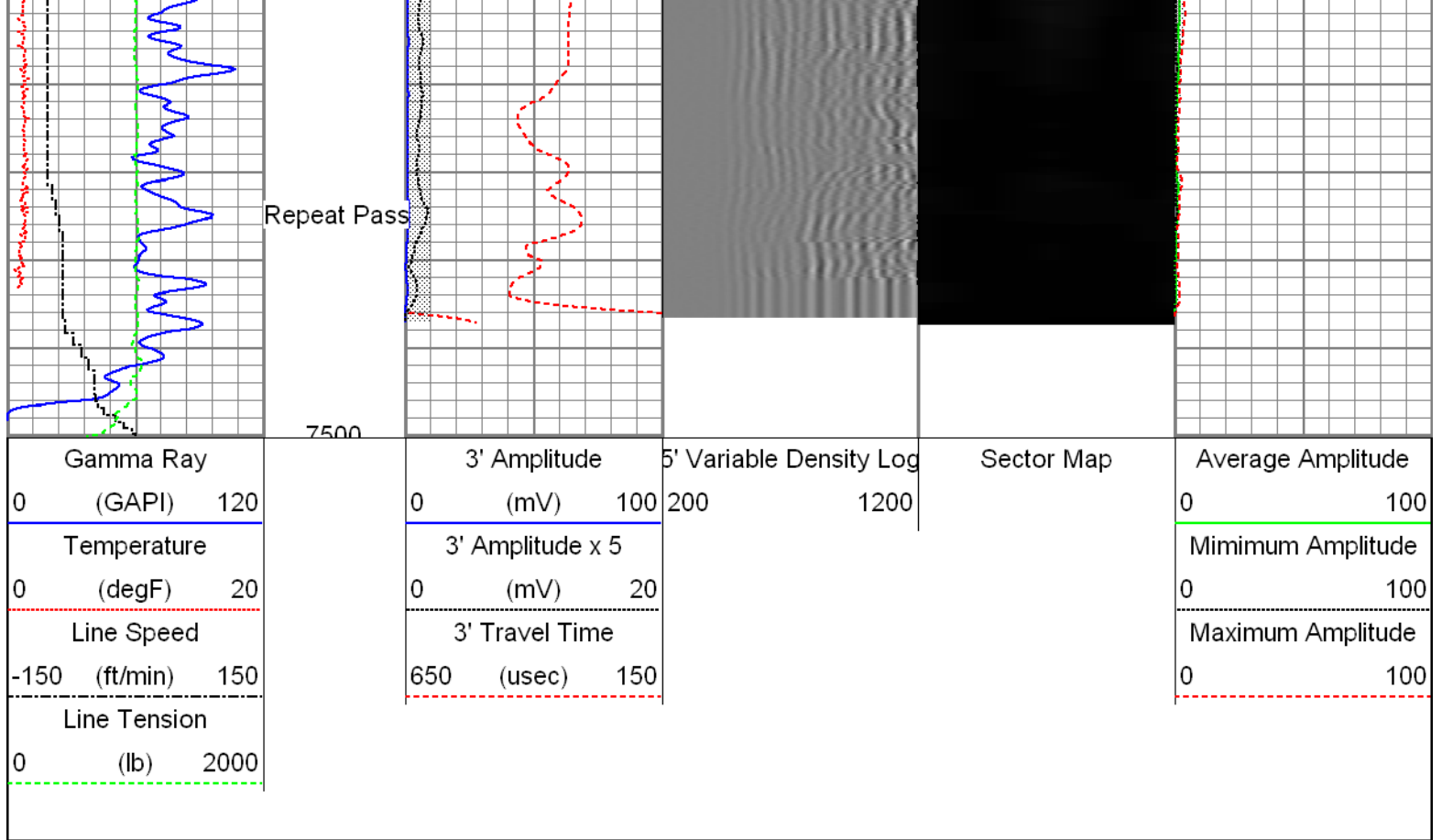




FMC Technologies		Repeat Pass			
		Recorded with 2800 PSI Surface Induced Pressure			
Database File: 0512341975_anadarko_meguire 29n-16hz_rbl.db Dataset Pathname: repeat Presentation Format: radii Dataset Creation: Wed Dec 02 09:26:12 2015 by Log 7.0 B1 Charted by: Depth in Feet scaled 1:240					
Gamma Ray 0 (GAPI) 120	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100	
Temperature 0 (degF) 20	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100	
Line Speed -150 (ft/min) 150	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100	

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
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
HeadVolt	19.49					
Temp	16.72					
WV3FT	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					
WV5FT	13.55					

				Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
CCL	6.51						
DCCL	6.51						
				Probe_CCL_GR-2.75"Digital (FW1212-026) 4.54 Probe 2-3/4" Digital CCL / Gamma Ray Combined		2.75	55.00
GR	3.77						
				Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
<div>Dataset: 0512341975_Anadarko_Meguire 29N-16HZ_RBL.db: field/well/run1/main</div> <div>Total Length: 23.40 ft</div> <div>Total Weight: 194.00 lb</div> <div>O.D. 2.75 in</div>							

Calibration Report						
Database File: 0512341975_Anadarko_Meguire 29N-16HZ_RBL.db Dataset Pathname: main Dataset Creation: Wed Dec 02 09:31:04 2015 by Log 7.0 B1						
Gamma Ray Calibration Report						
Serial Number: FW1212-026 Tool Model: 2.75"Digital Performed: Wed Dec 02 08:59:40 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: 20.000 ft						
Master Calibration, performed Wed Dec 02 08:44:05 2015:						
Raw (v)		Calibrated (mv)		Results		
Zero	Cal	Zero	Cal	Gain	Offset	
3'	0.008	0.617	0.800	71.921	116.752	-0.084

S	0.000	0.017	0.000	71.921	110.752	-0.004
CAL	0.733	0.783				
5'	0.010	0.500	0.800	71.921	145.226	-0.709
SUM						
S1	0.005	0.594	0.000	100.000	169.904	-0.857
S2	0.008	0.616	0.000	100.000	164.369	-1.260
S3	0.007	0.641	0.000	100.000	157.840	-1.108
S4	0.007	0.650	0.000	100.000	155.470	-1.120
S5	0.007	0.637	0.000	100.000	158.704	-1.155
S6	0.008	0.613	0.000	100.000	165.028	-1.243
S7	0.008	0.594	0.000	100.000	170.655	-1.354
S8	0.008	0.587	0.000	100.000	172.786	-1.354

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	0.733	0.783	1.000	0.000

Air Zero Calibration, performed Wed Dec 02 08:43:37 2015:

	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 Meguire 29N-16HZ
Field Wattenberg
County Weld
State Colorado