

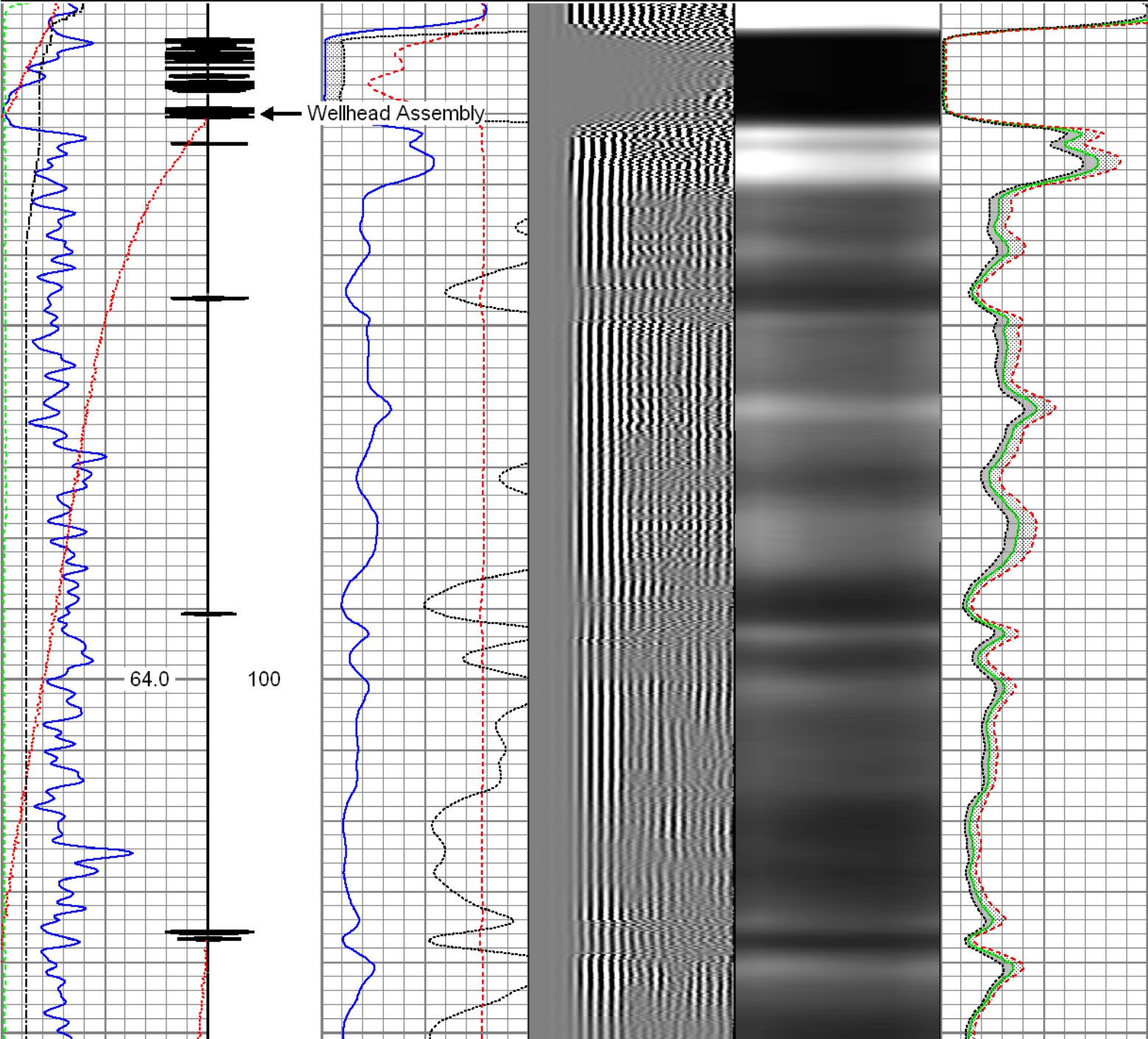


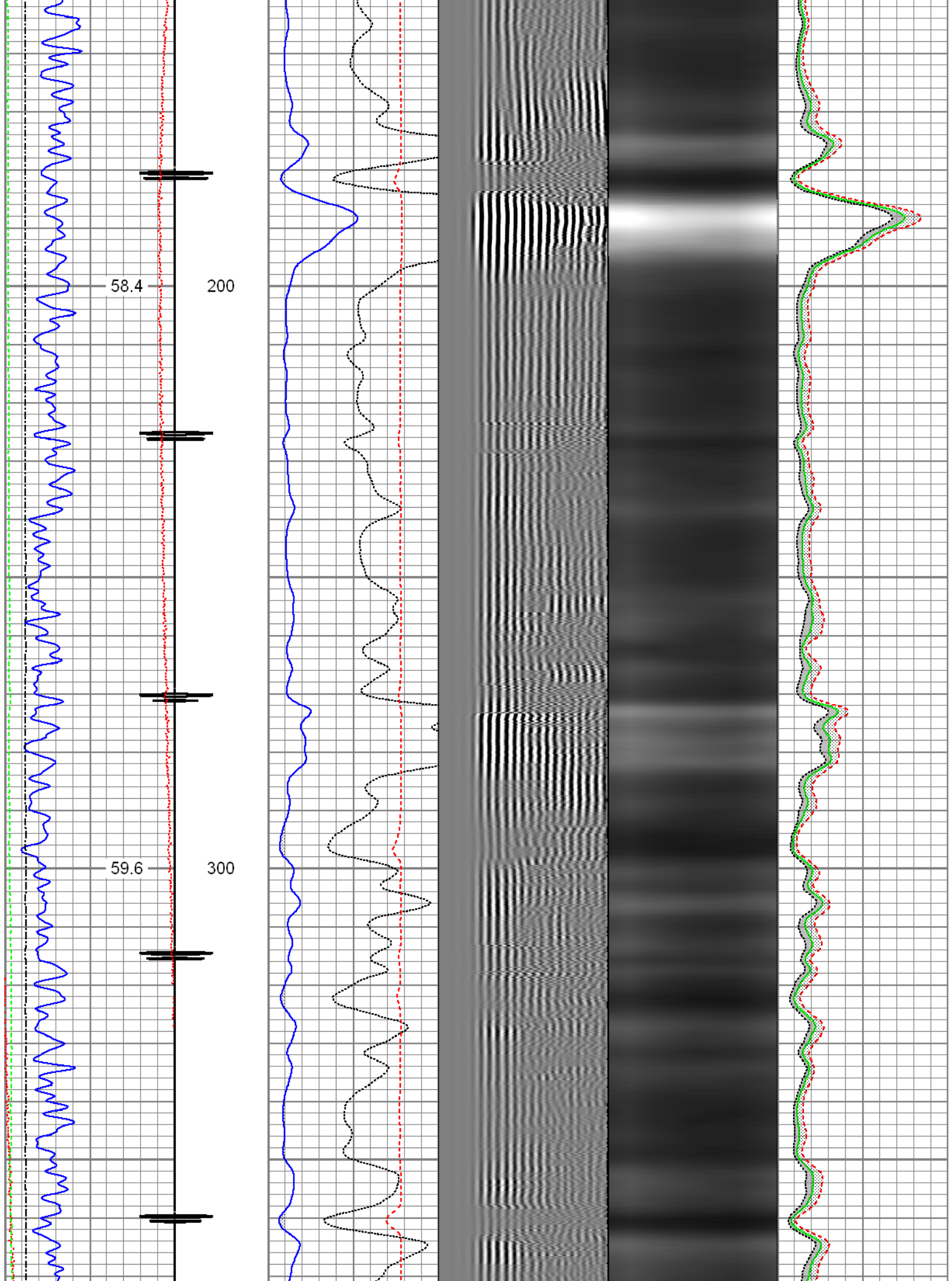
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Recorded Marker Joint at 6462-6484 FT Log ran from as deep as possible in heel from 7362 FT to surface Recorded with 2800 PSI surface induced pressure No debris found on logging tools after run Thank you for choosing FMC Technologies Completion Services, Inc.!!

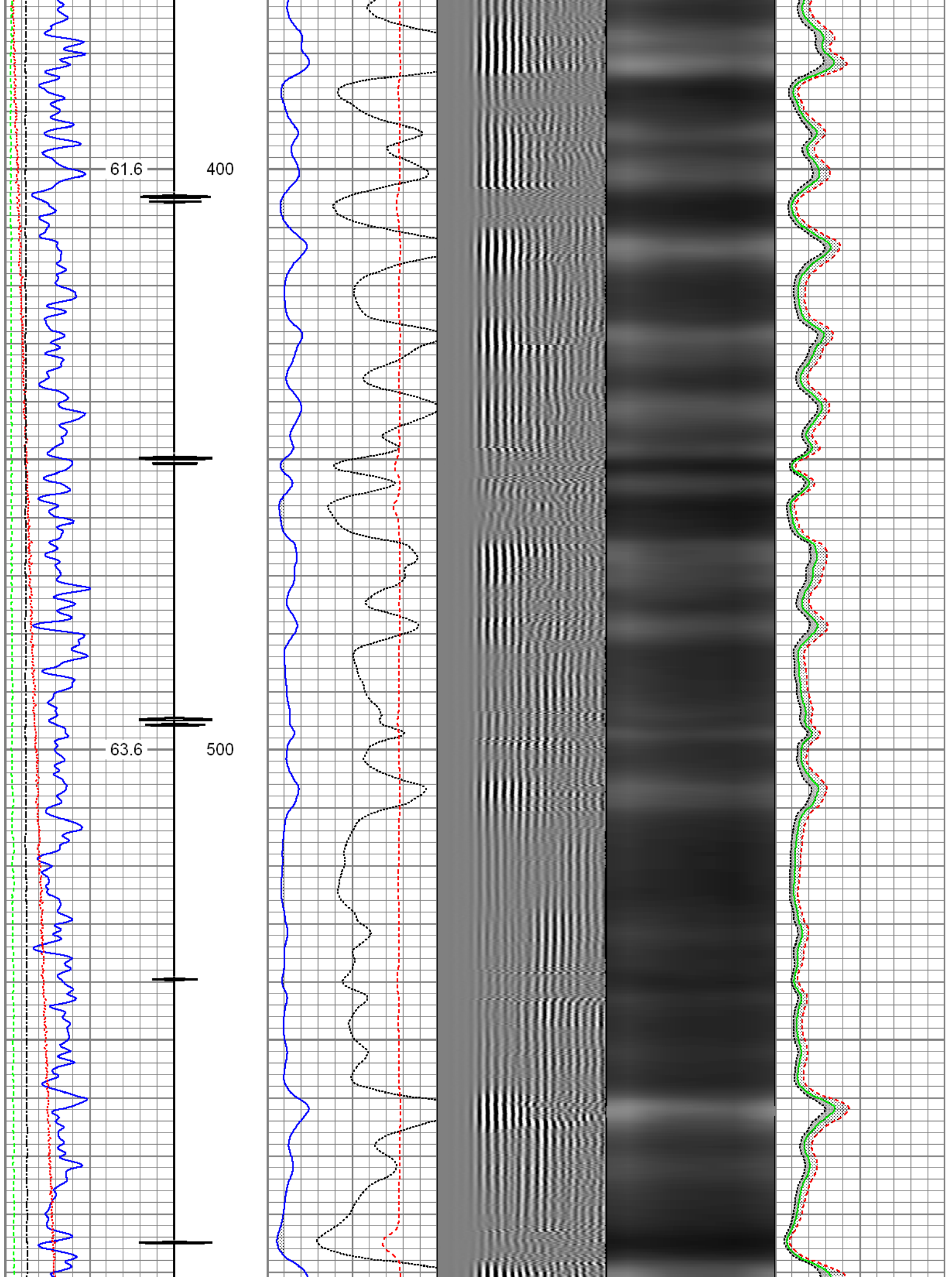


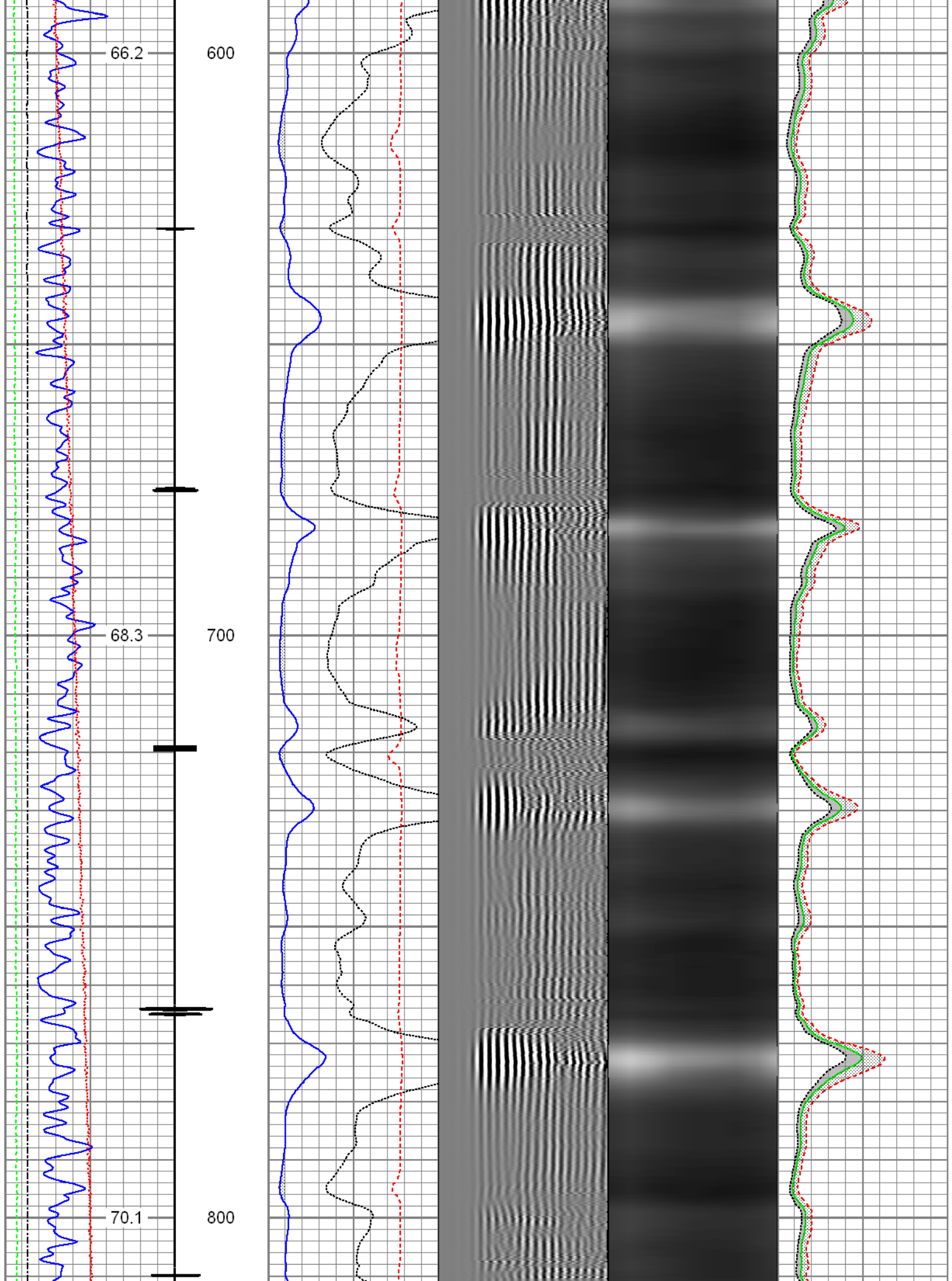
Database File: 0506906470_anadarko_miracle 40n-11hz_08-14-15_rbl.db
Dataset Pathname: pass3
Presentation Format: radii
Dataset Creation: Fri Aug 14 10:31:28 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

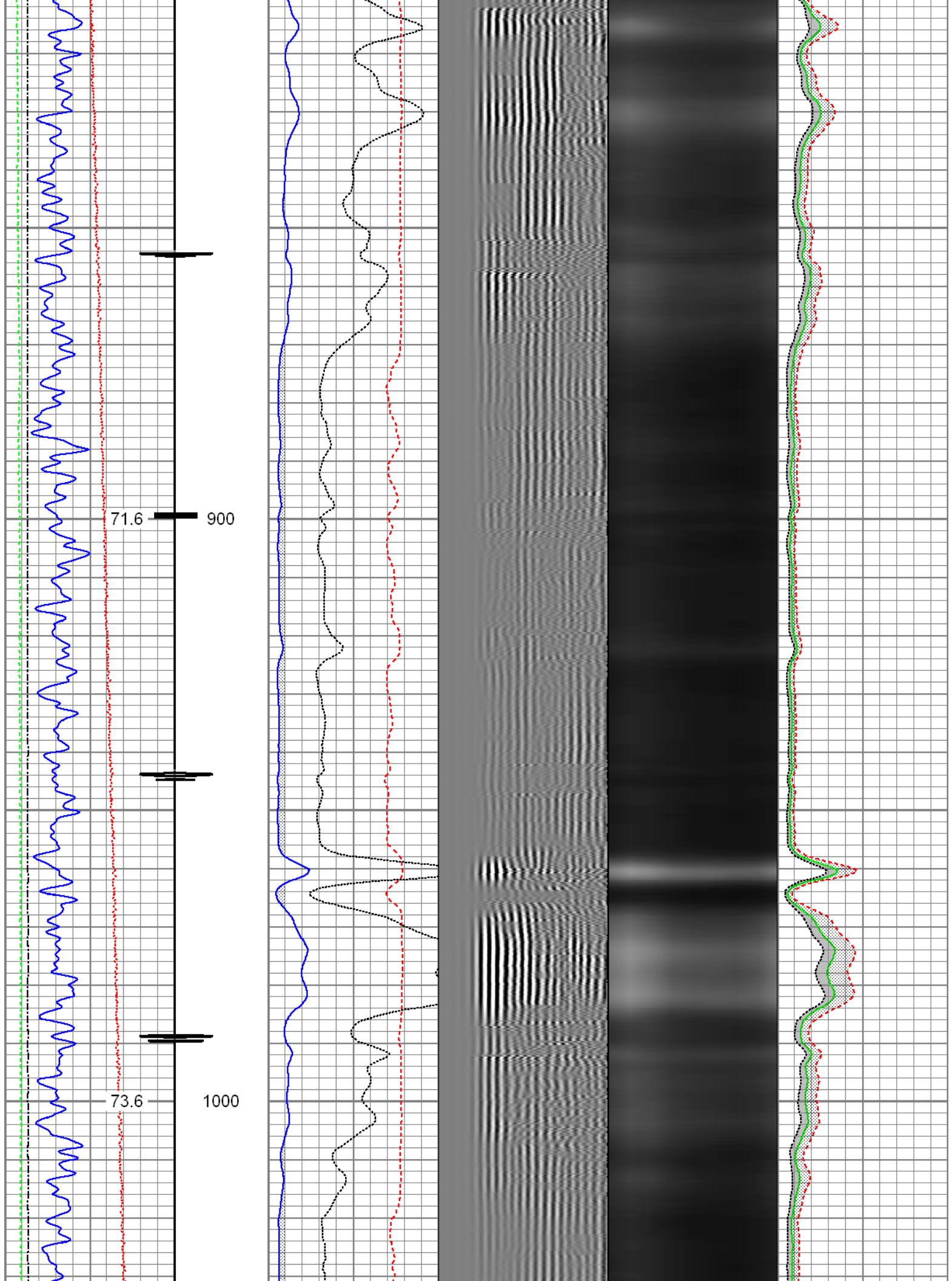
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Temperature	0 (mV) 20			0 100
0 (degF) 20	3' Travel Time			Maximum Amplitude
Line Speed	650 (usec) 150			0 100
-150 (ft/min) 150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

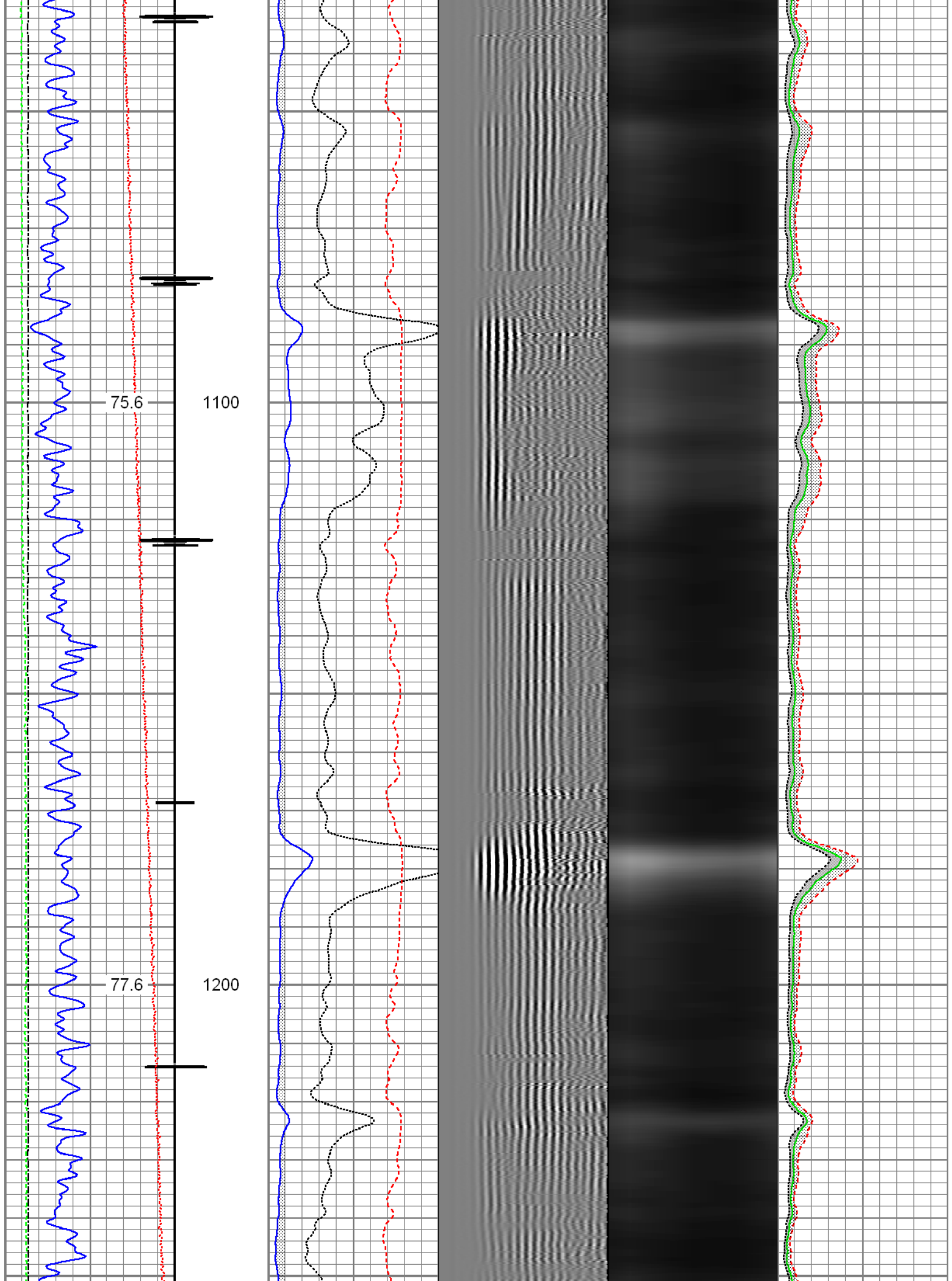


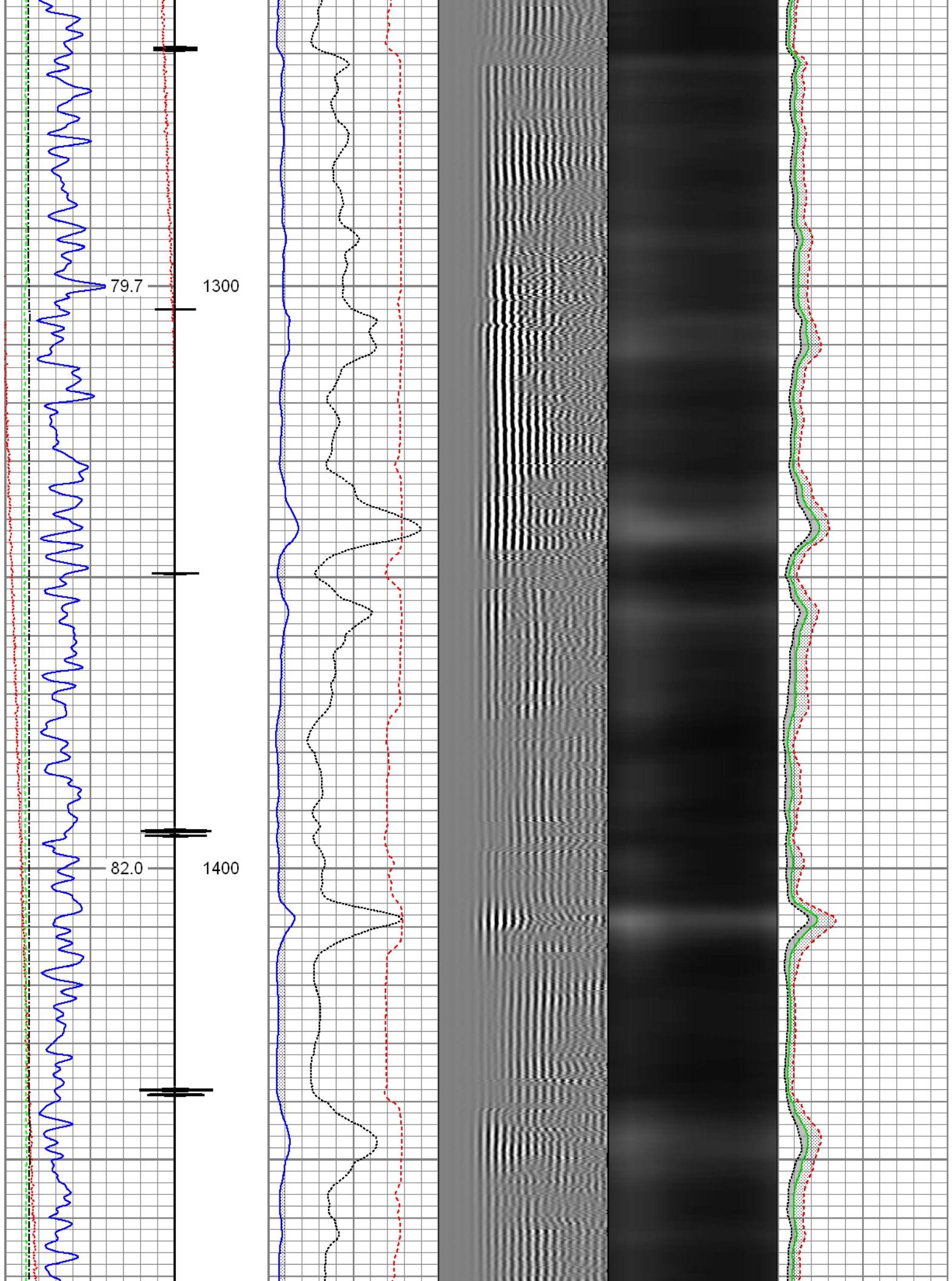


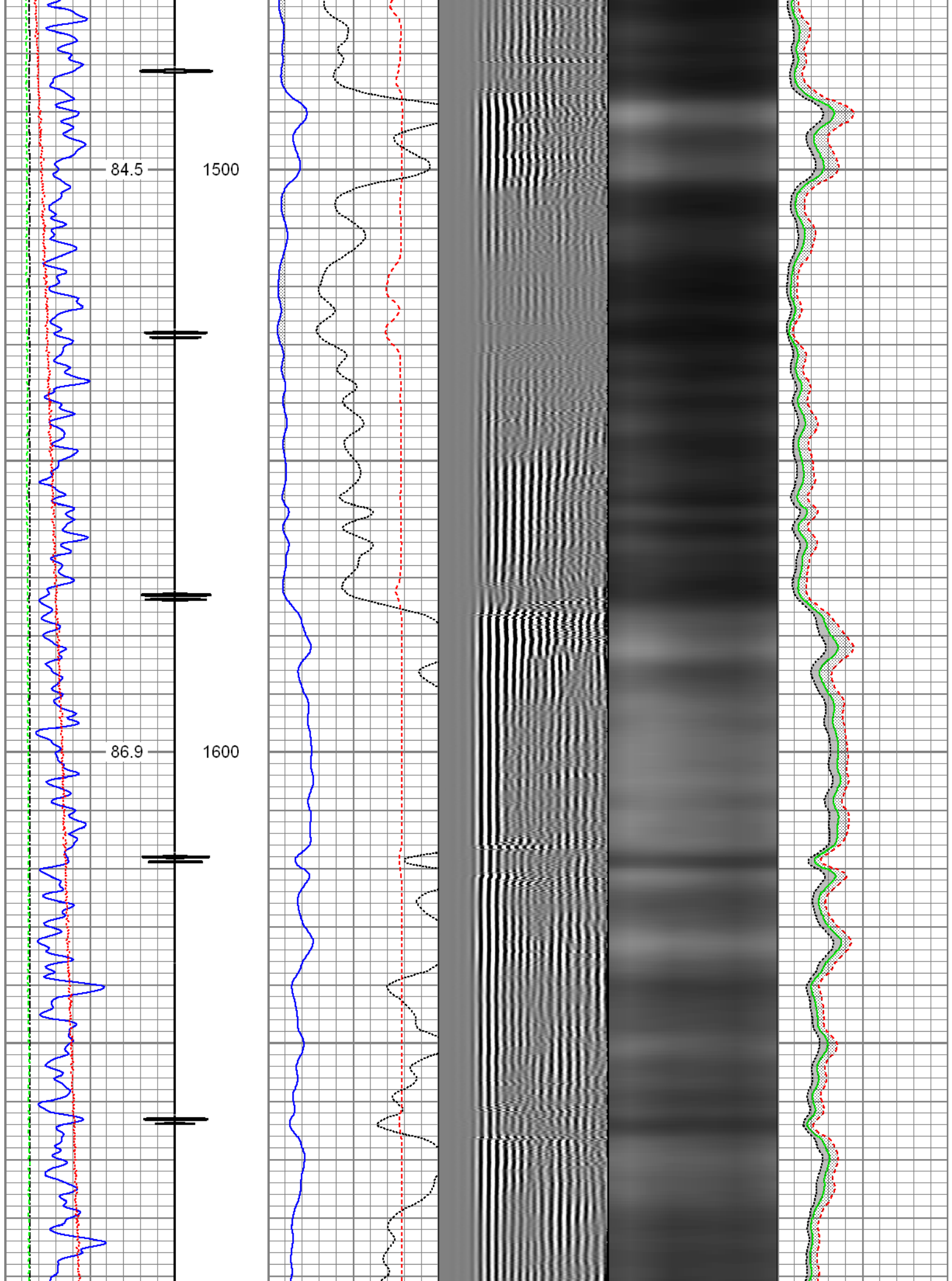


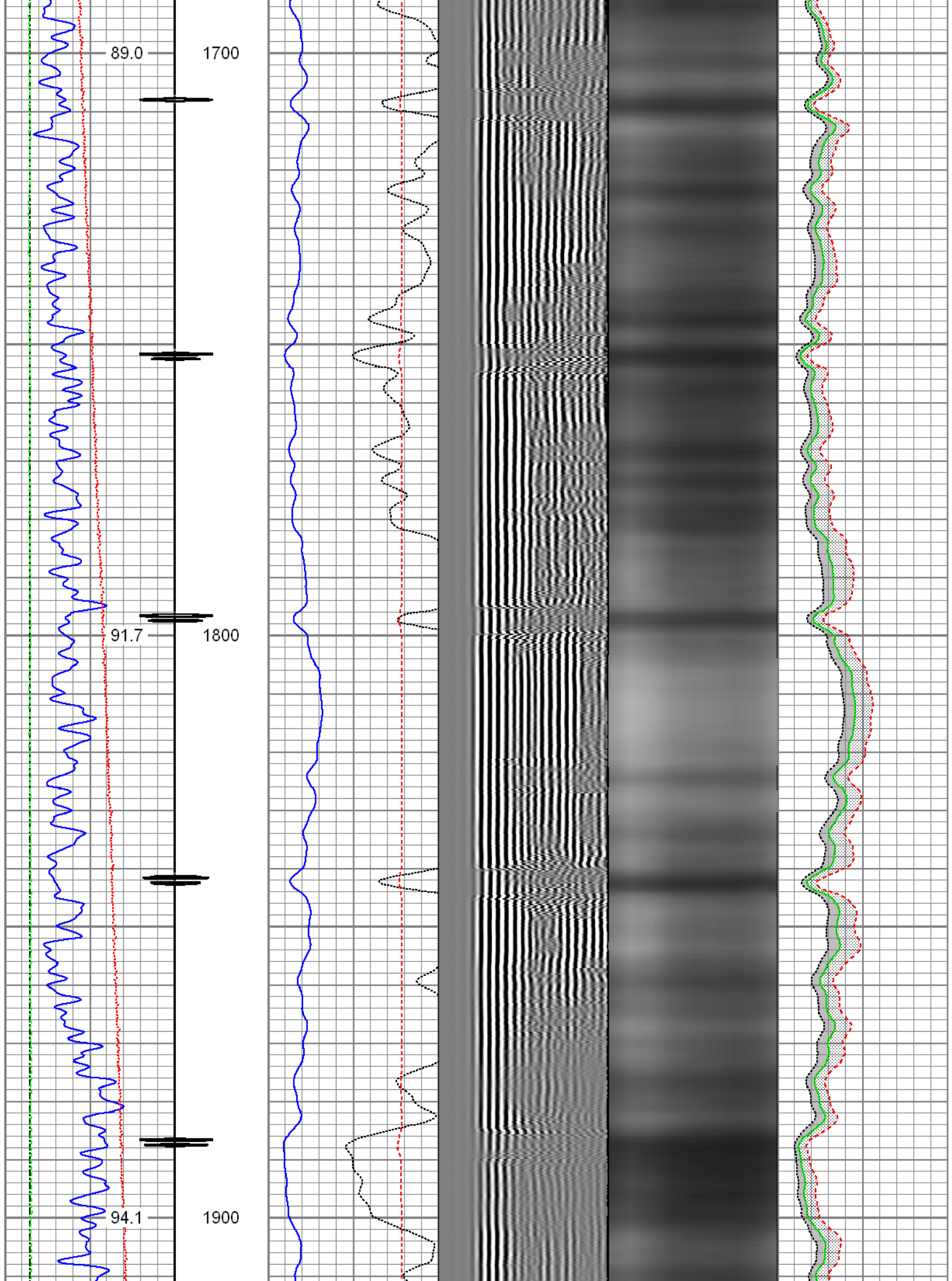


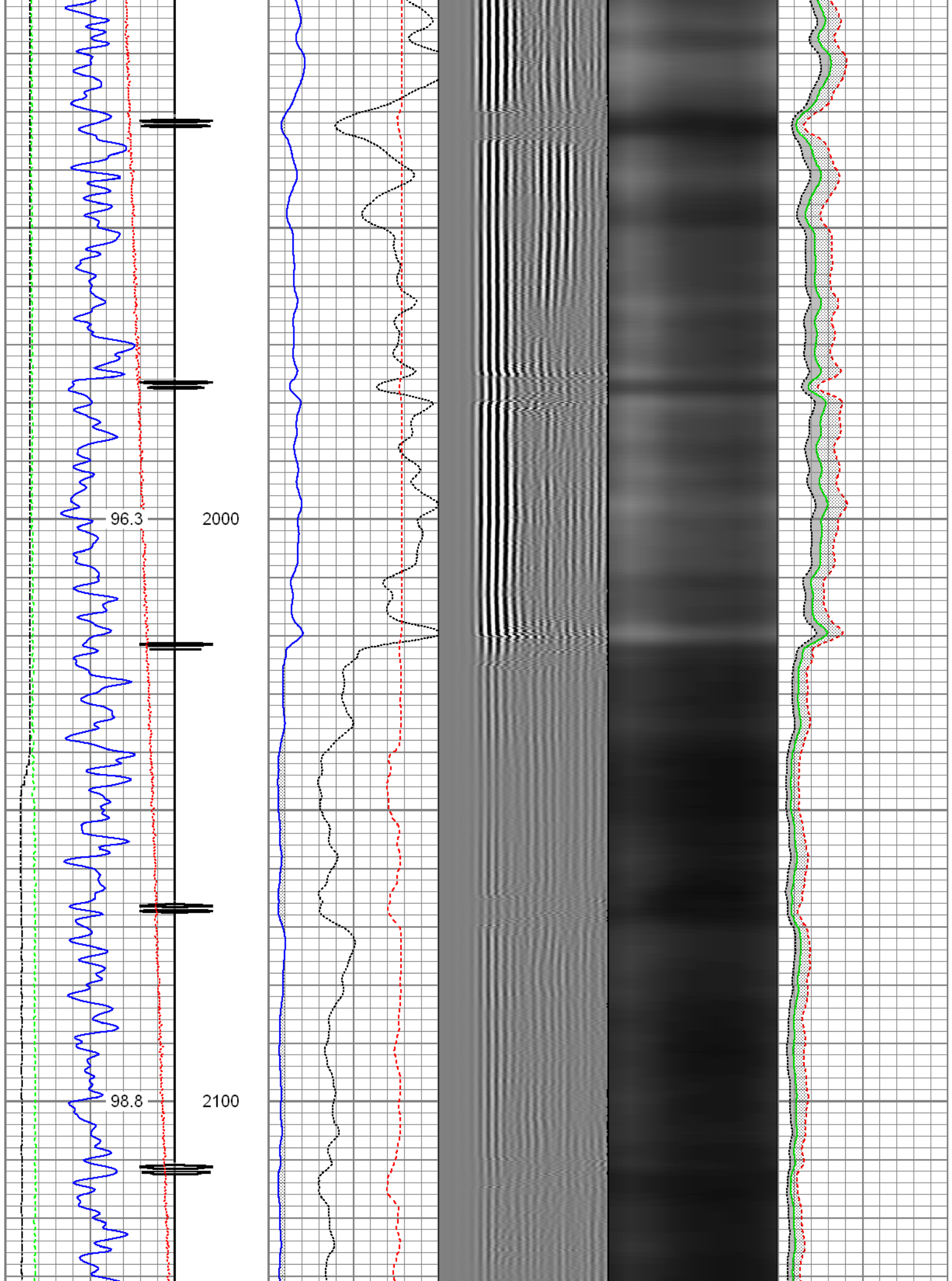


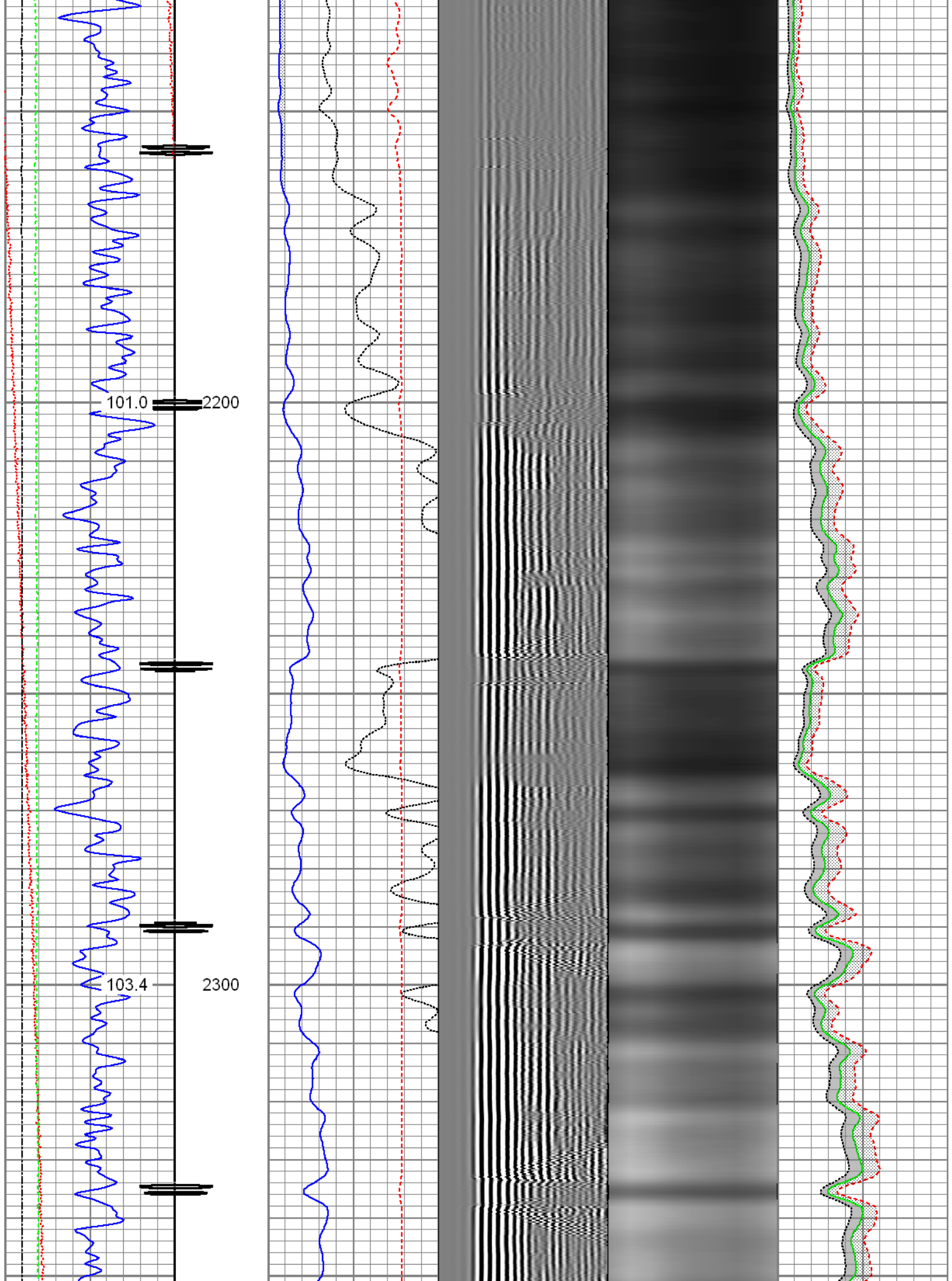


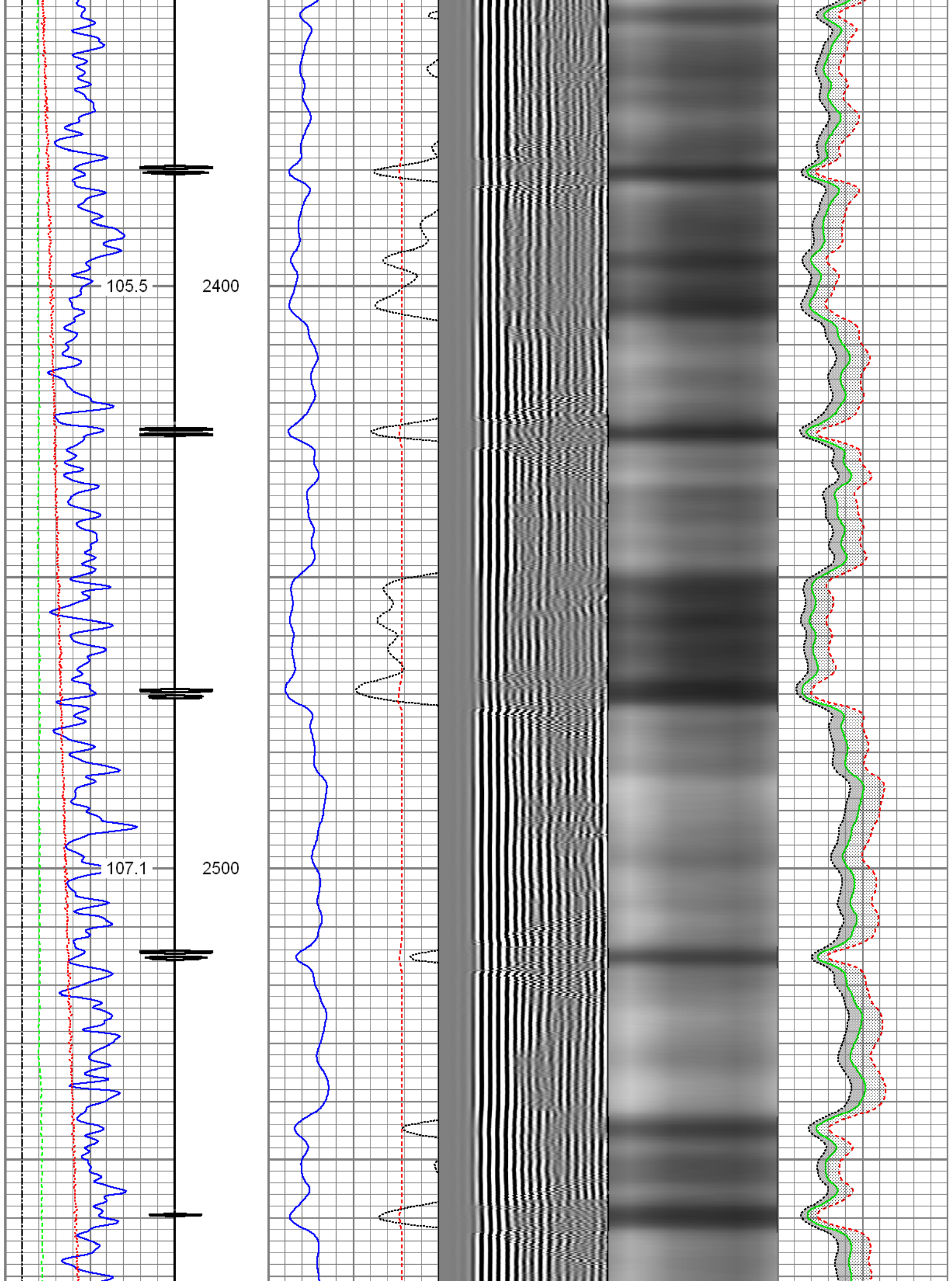


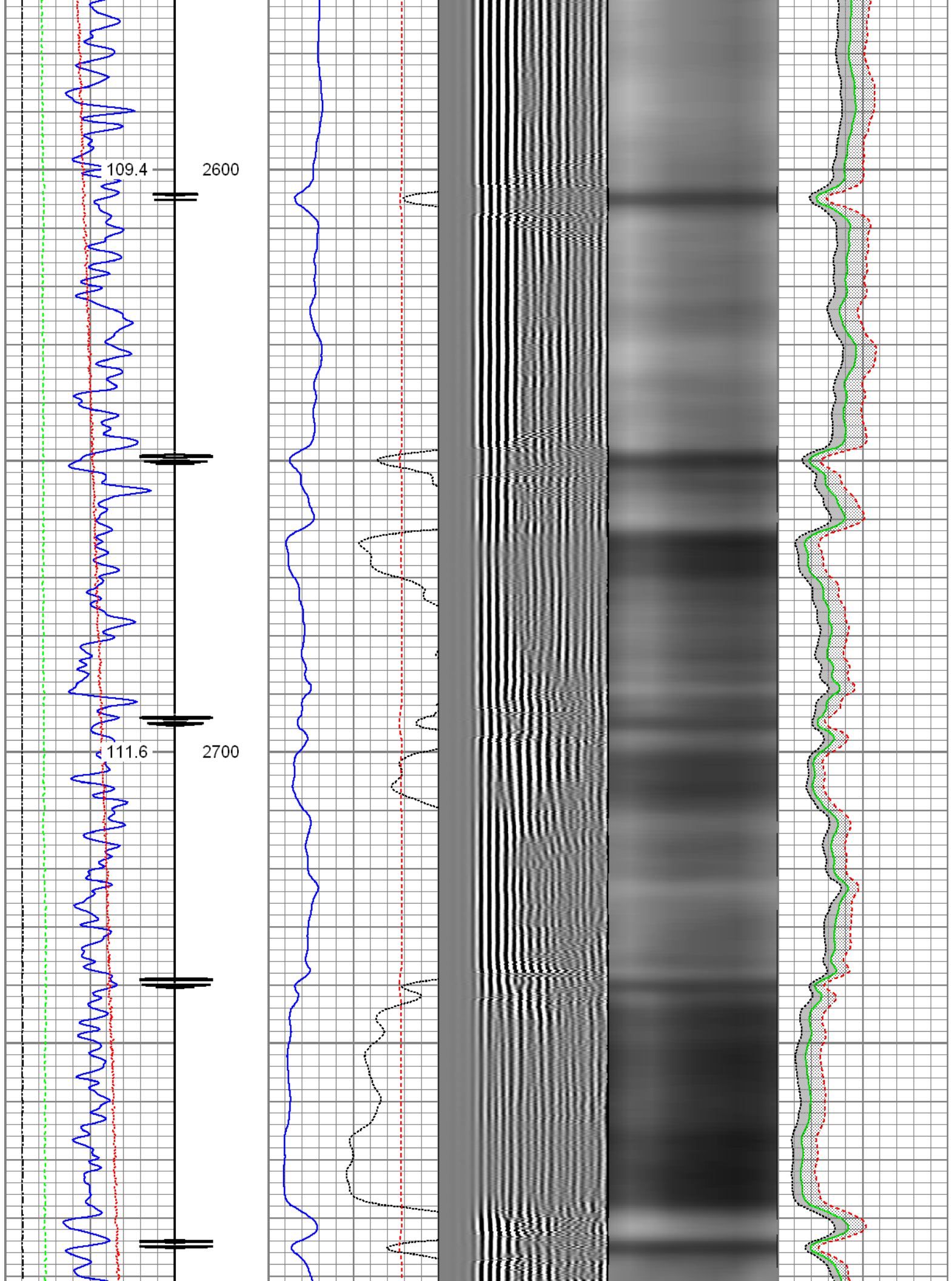


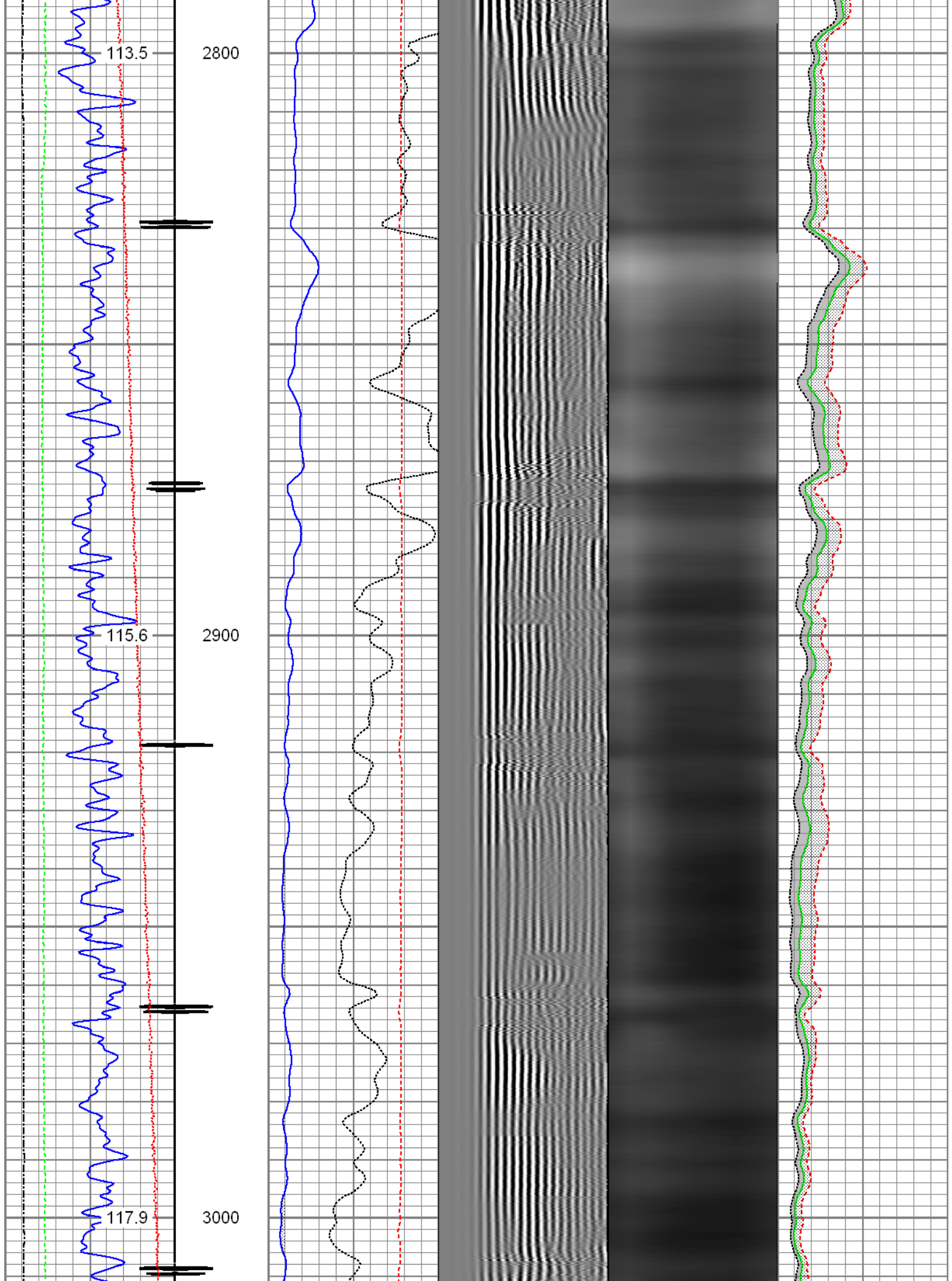


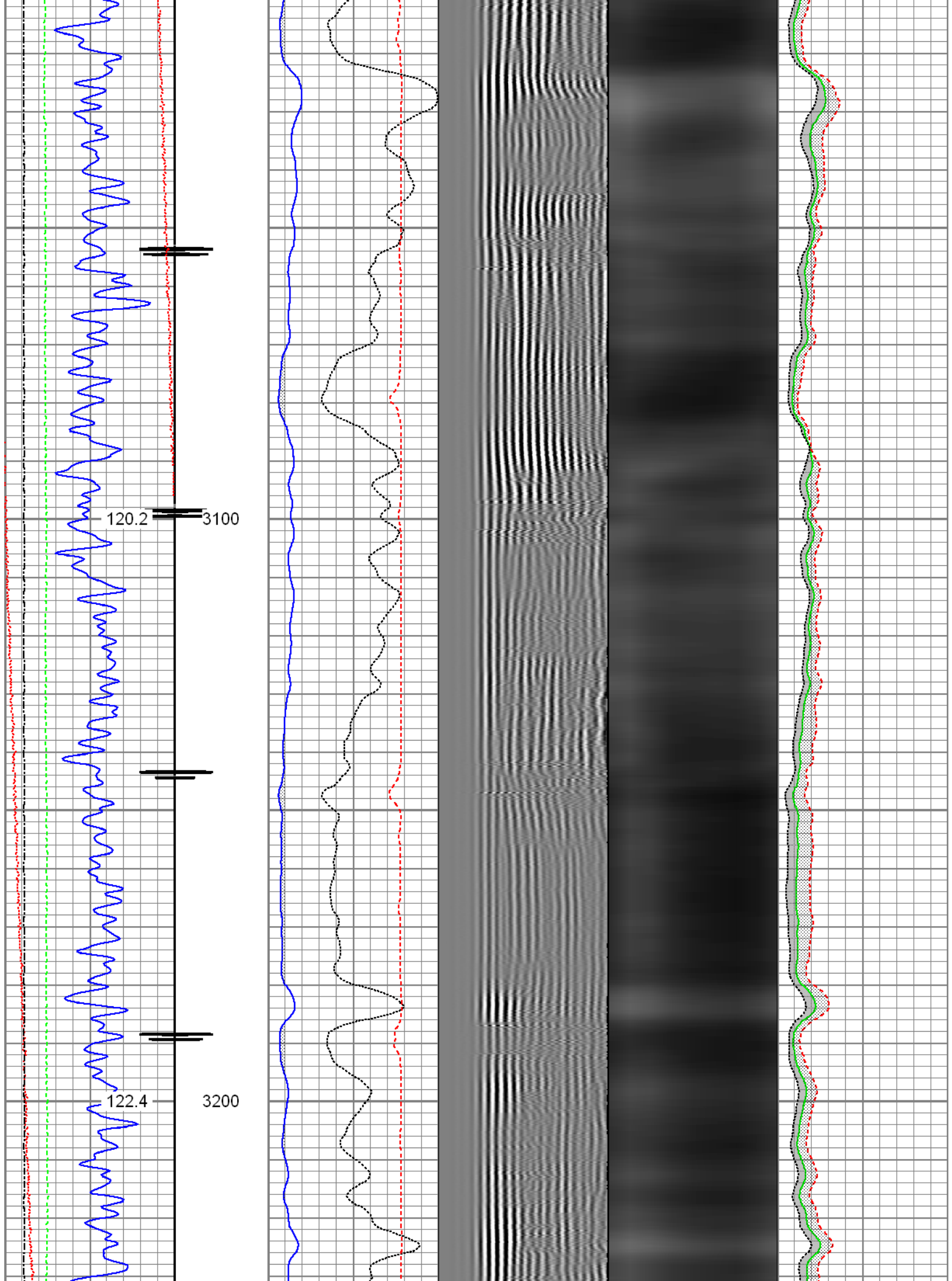


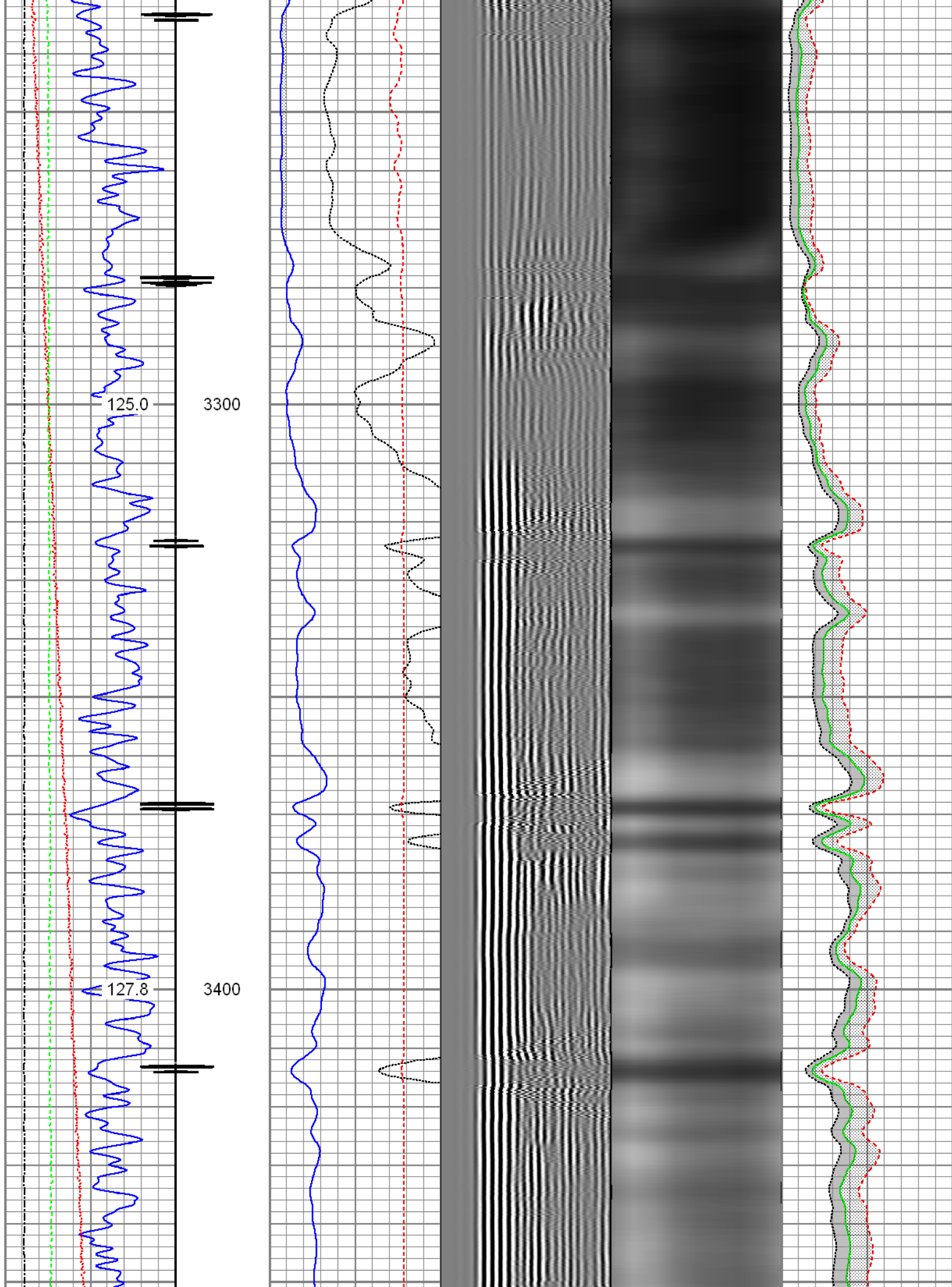


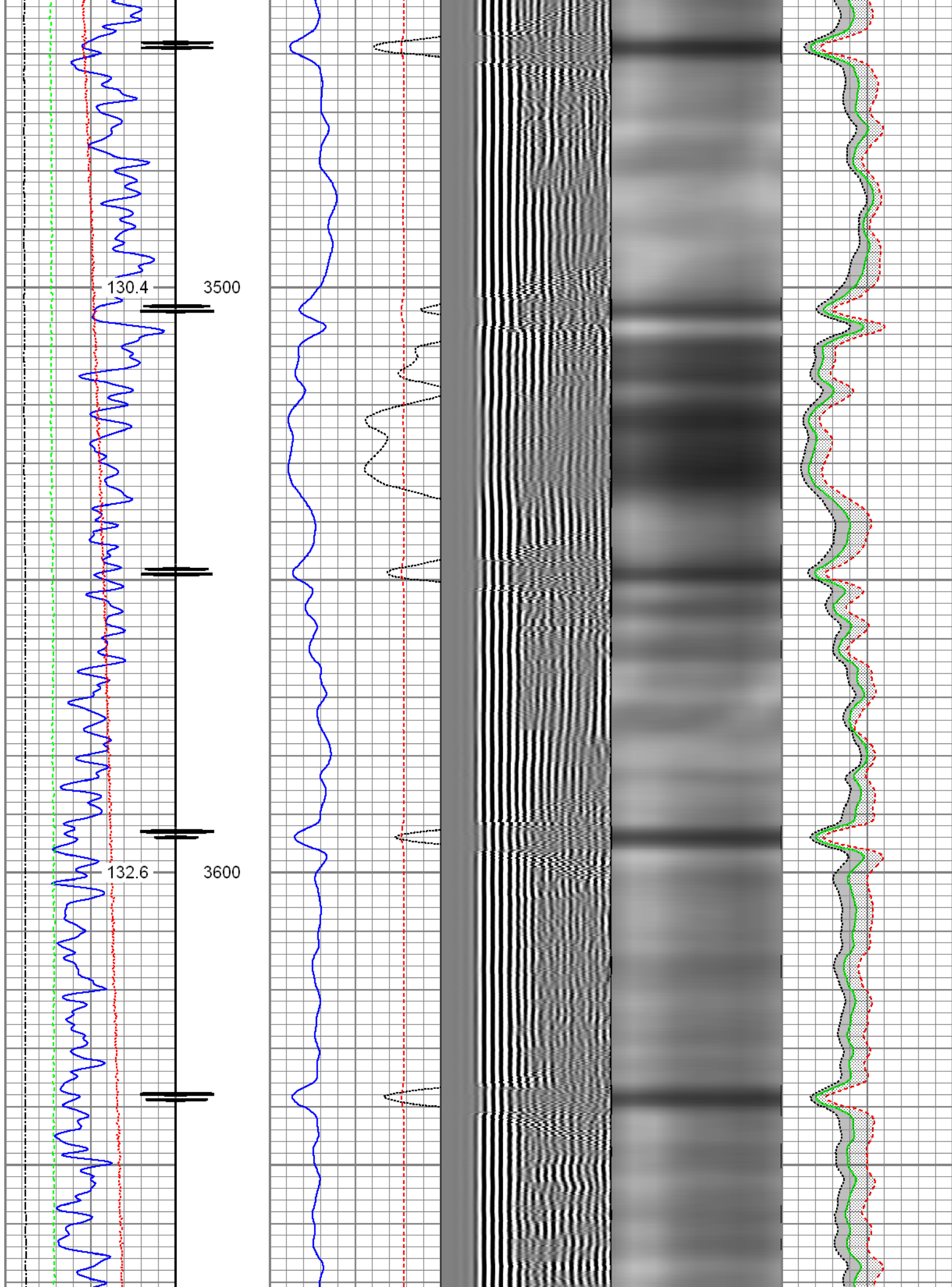


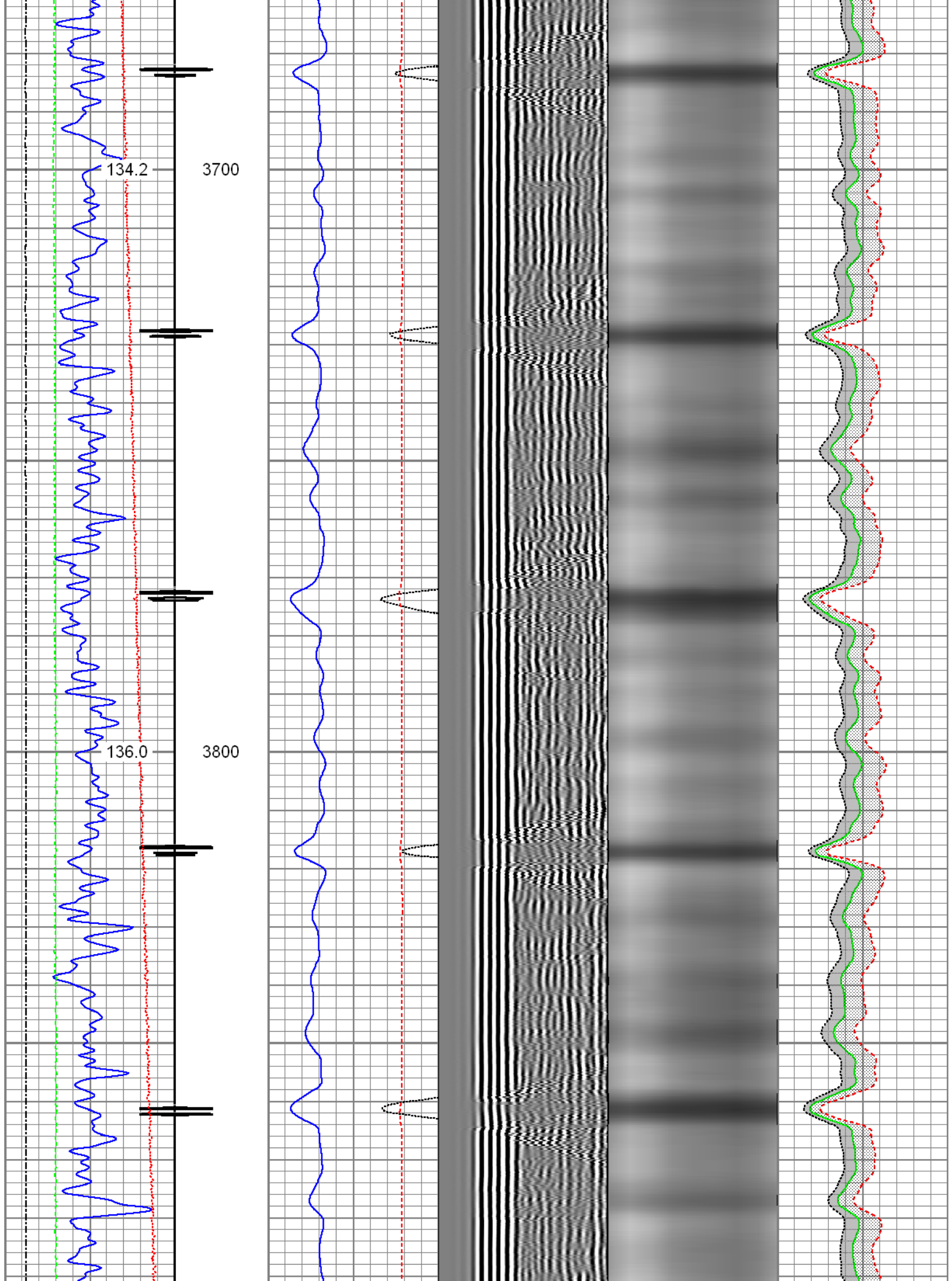


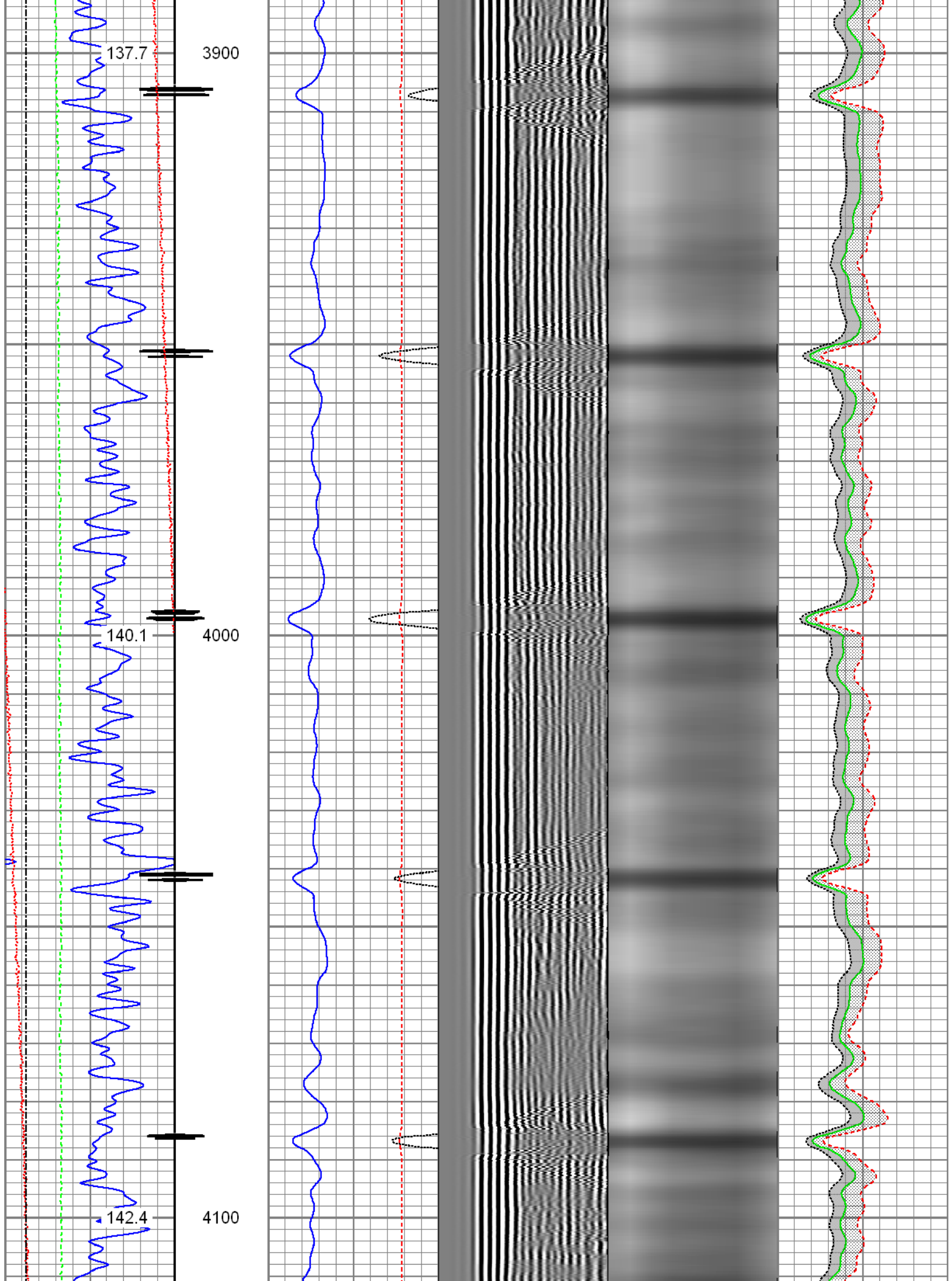


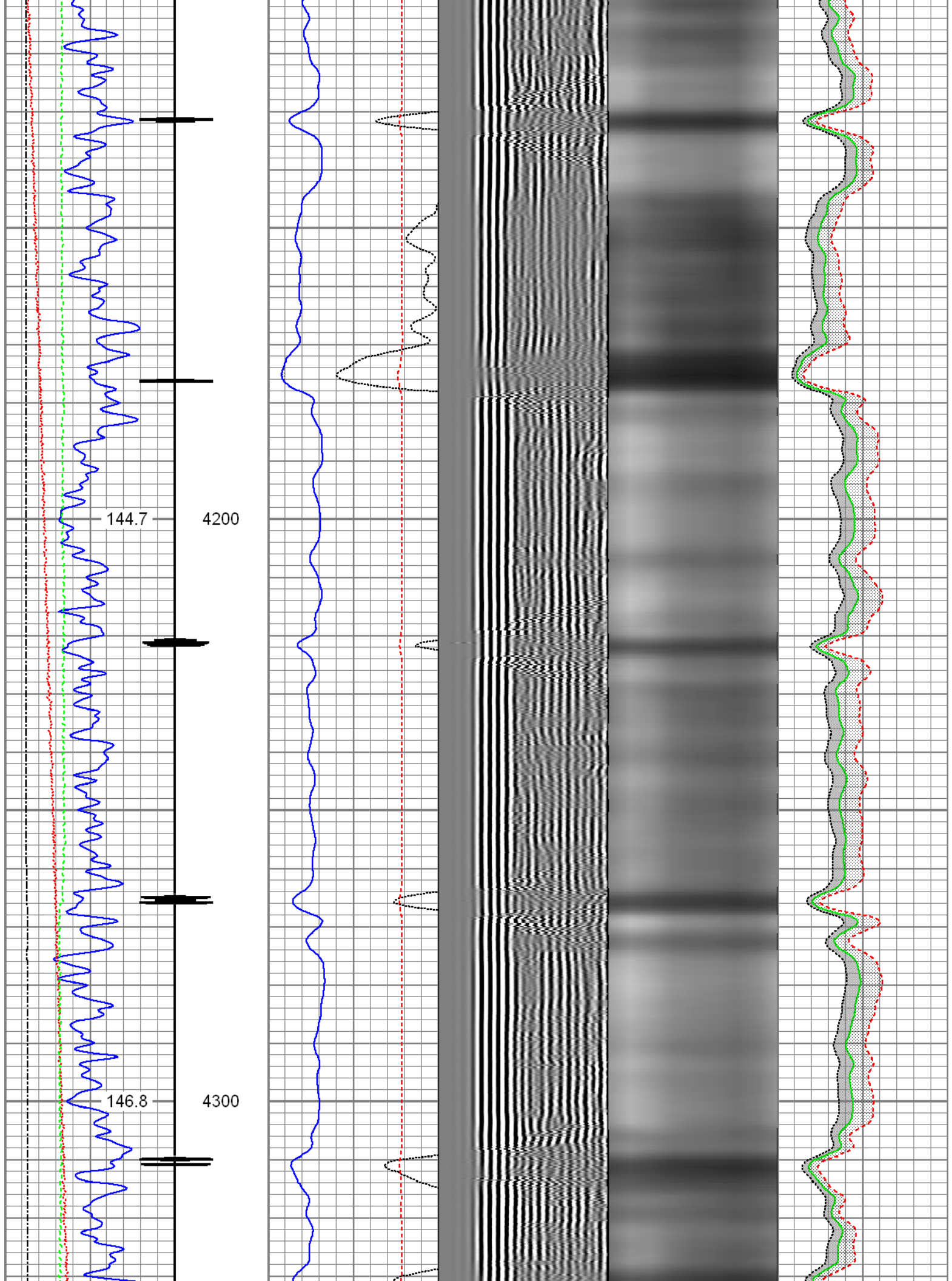


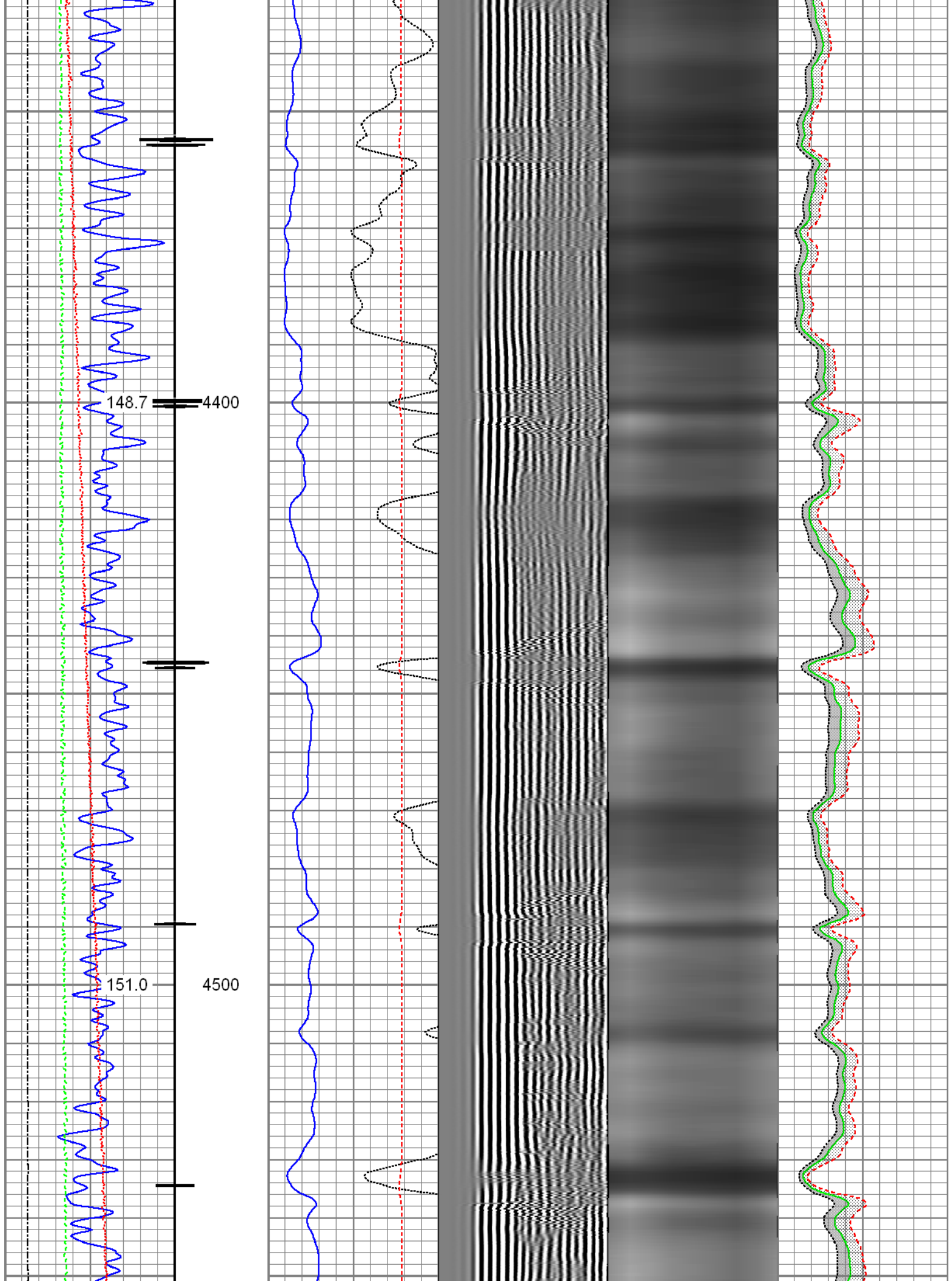


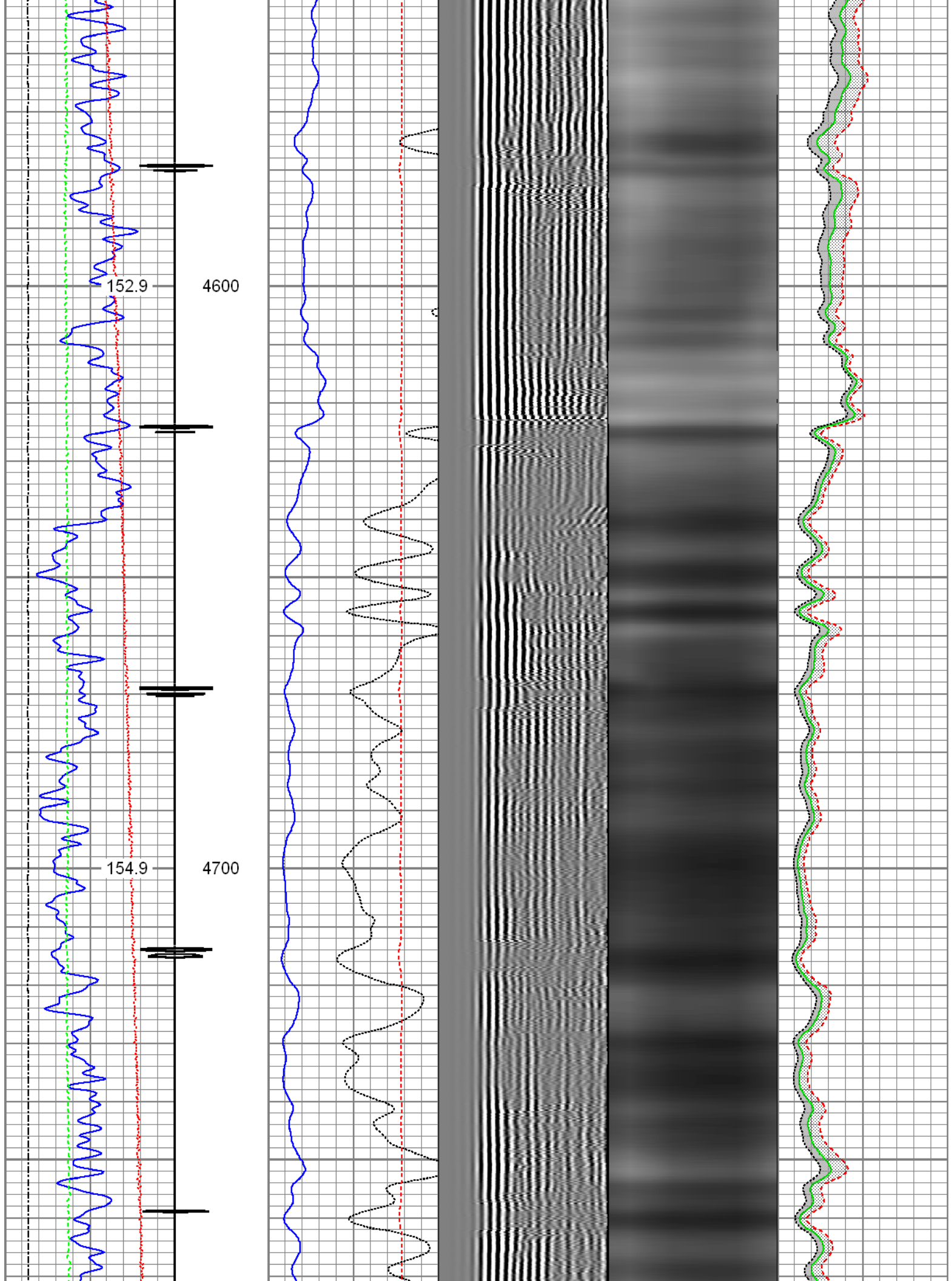


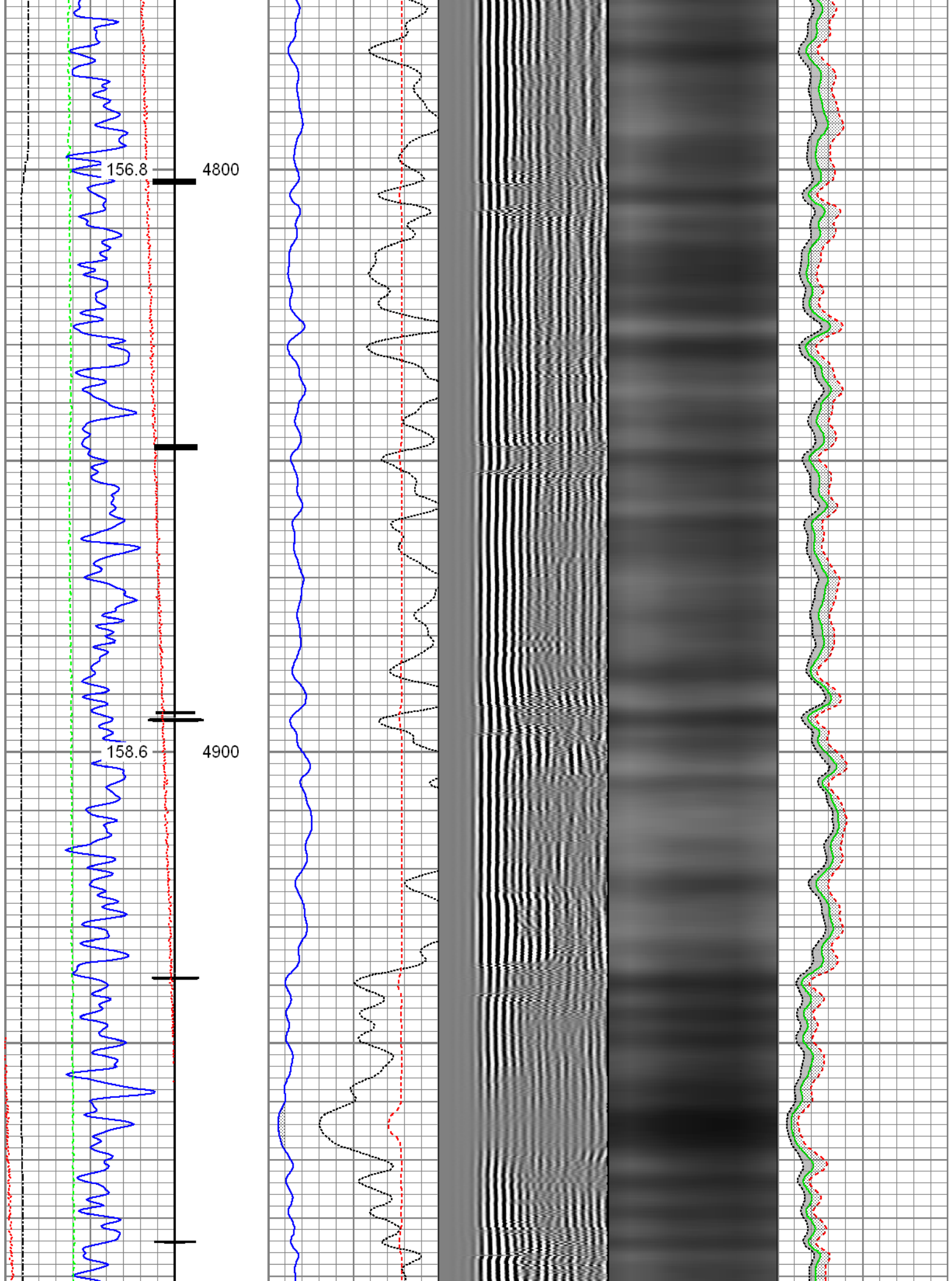


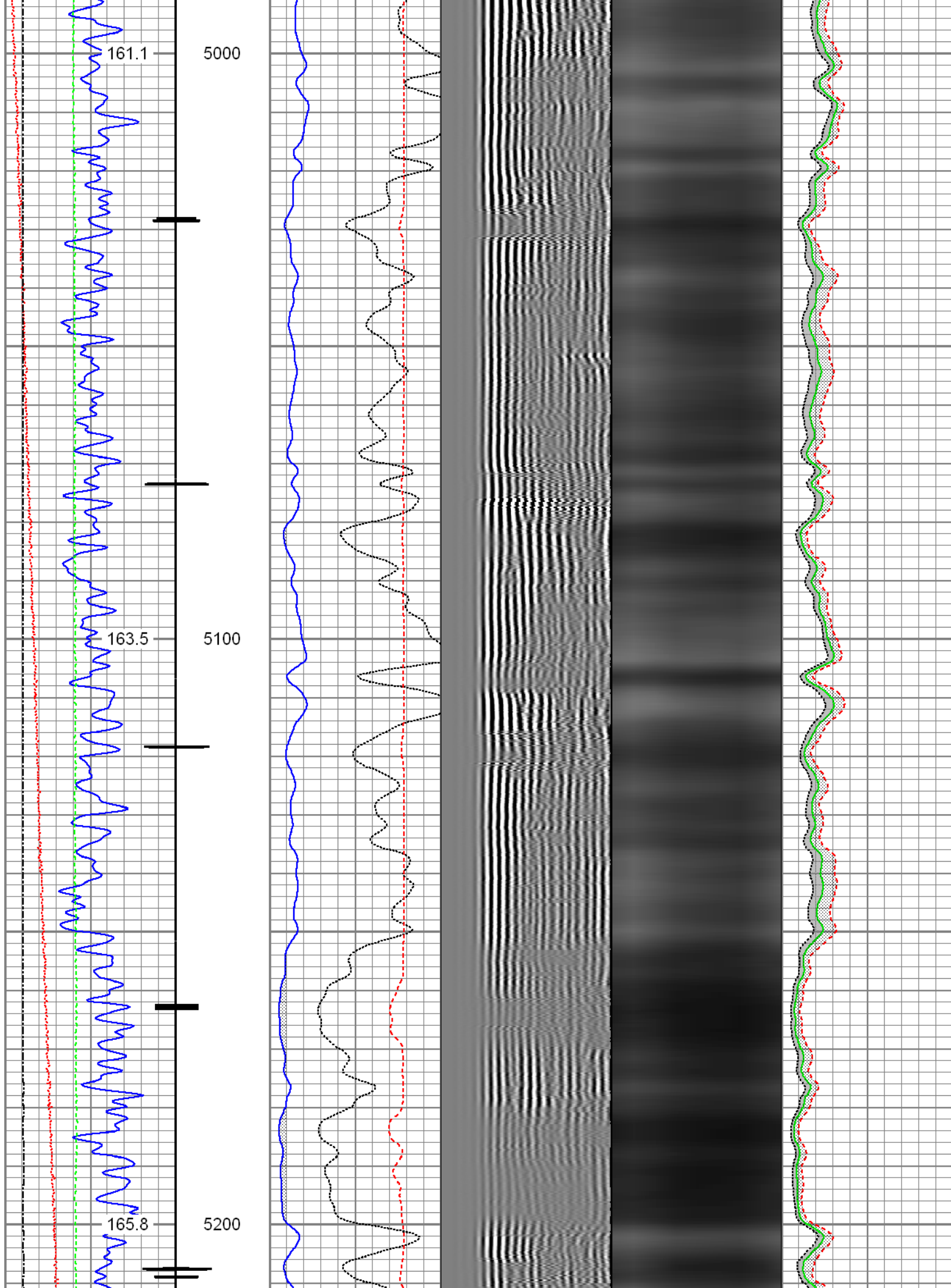


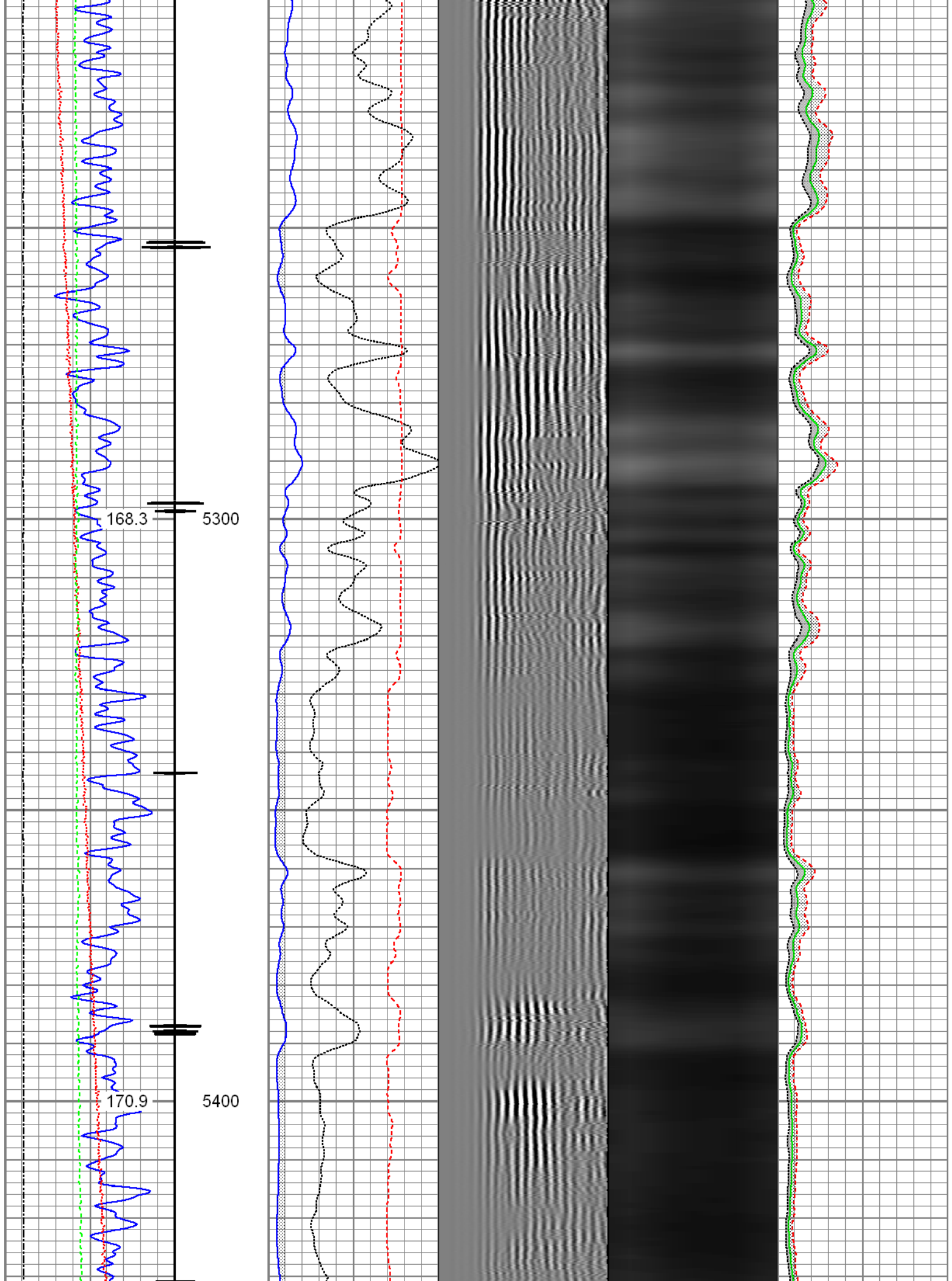


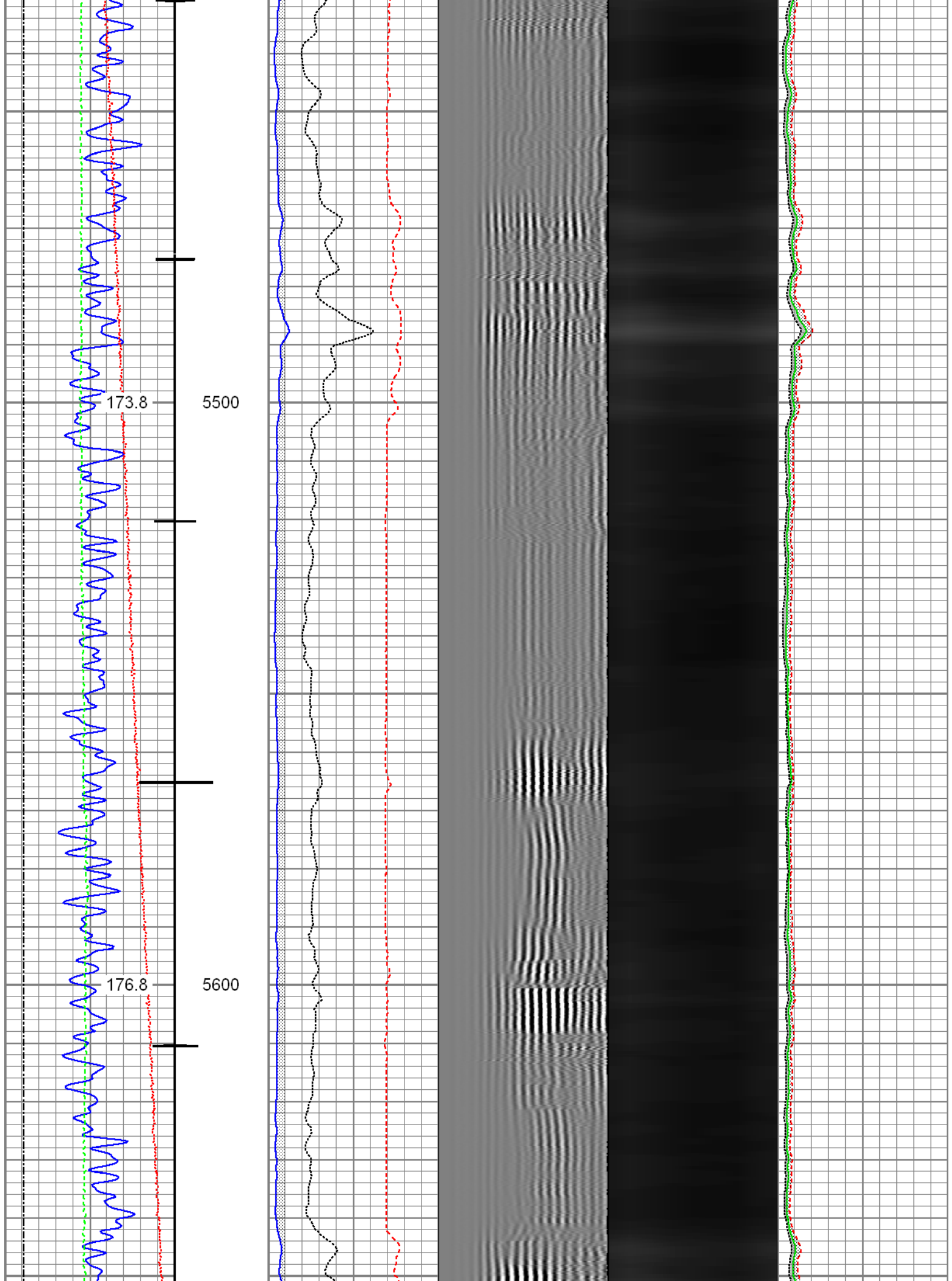


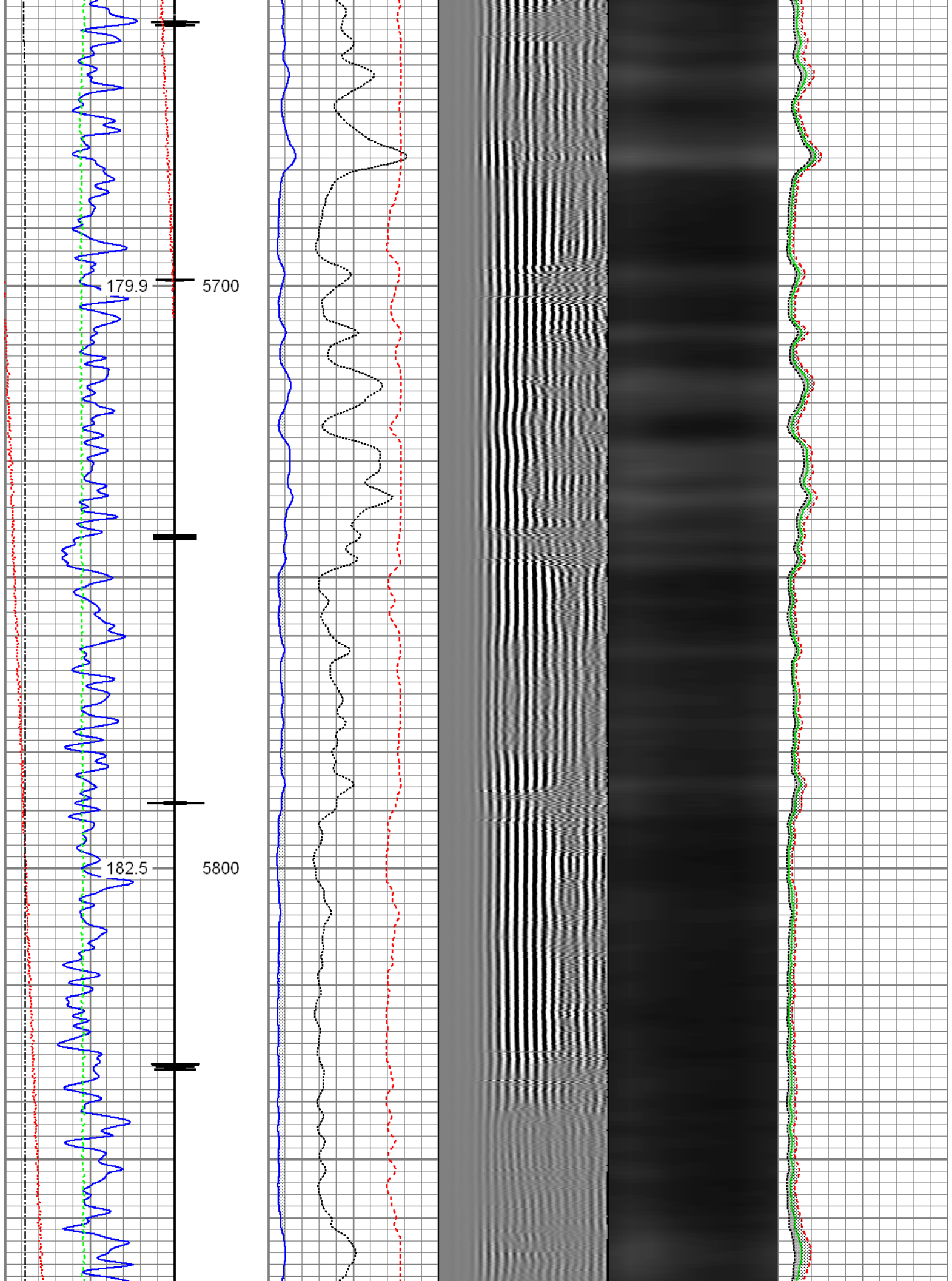


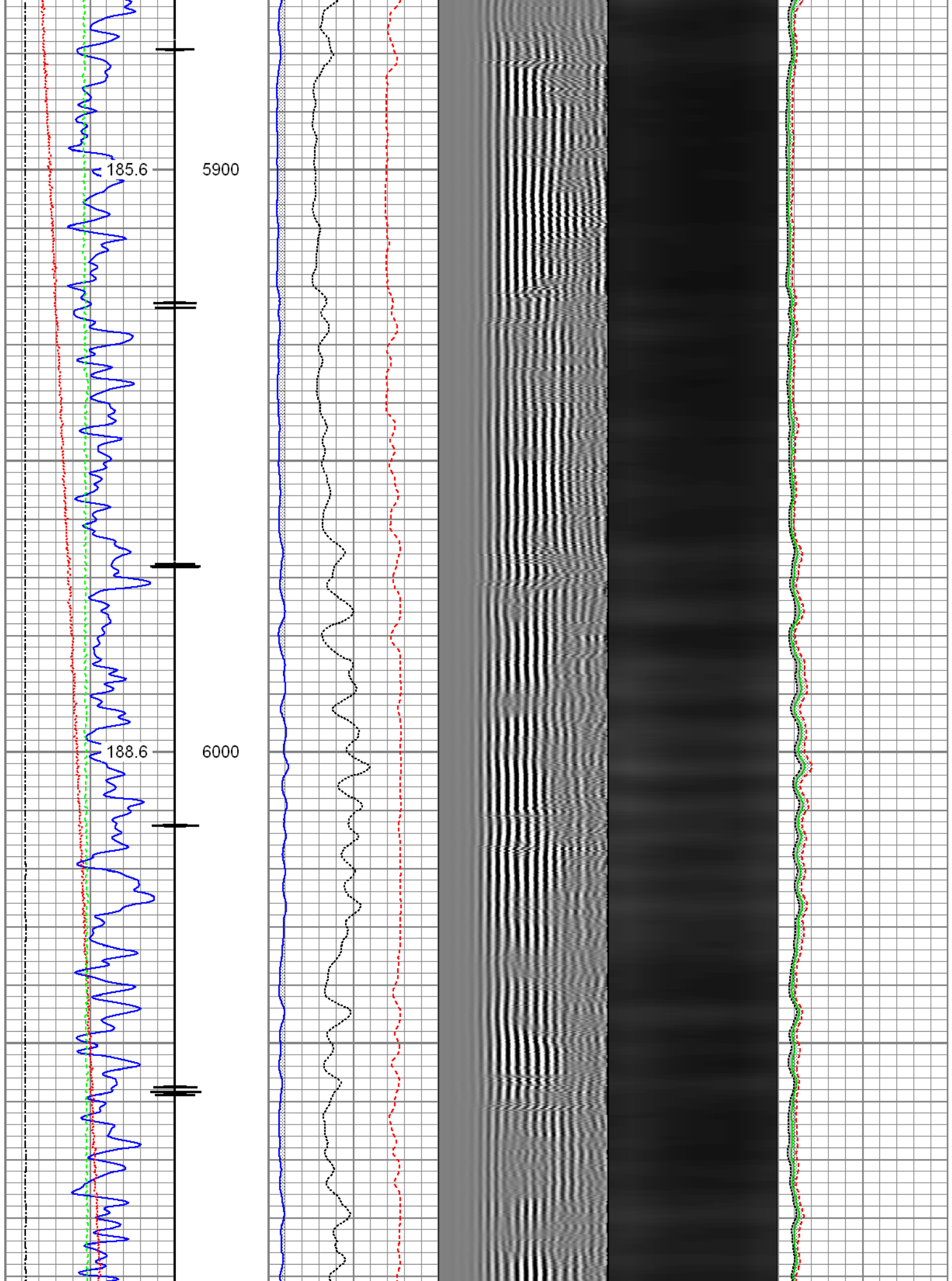


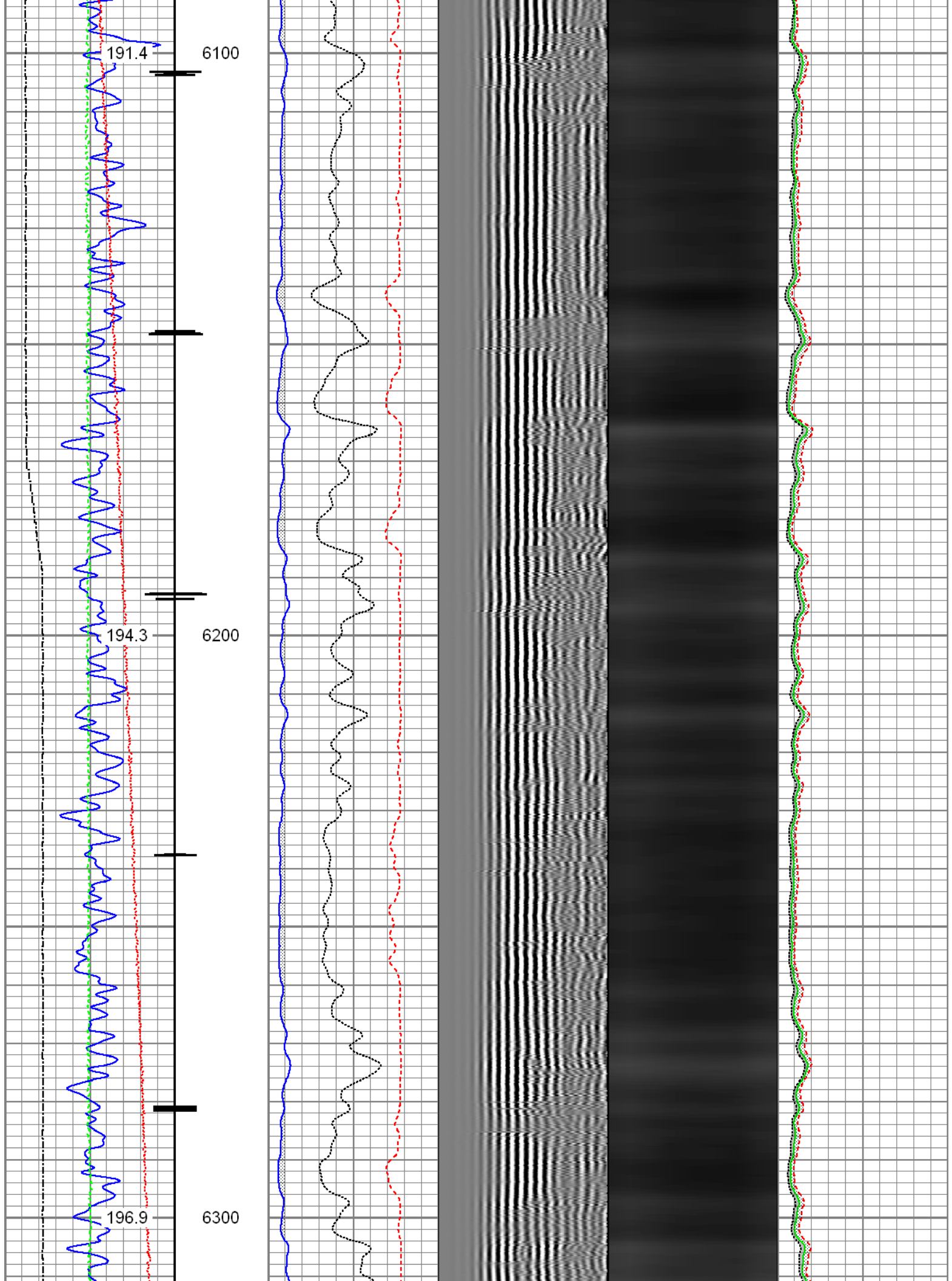


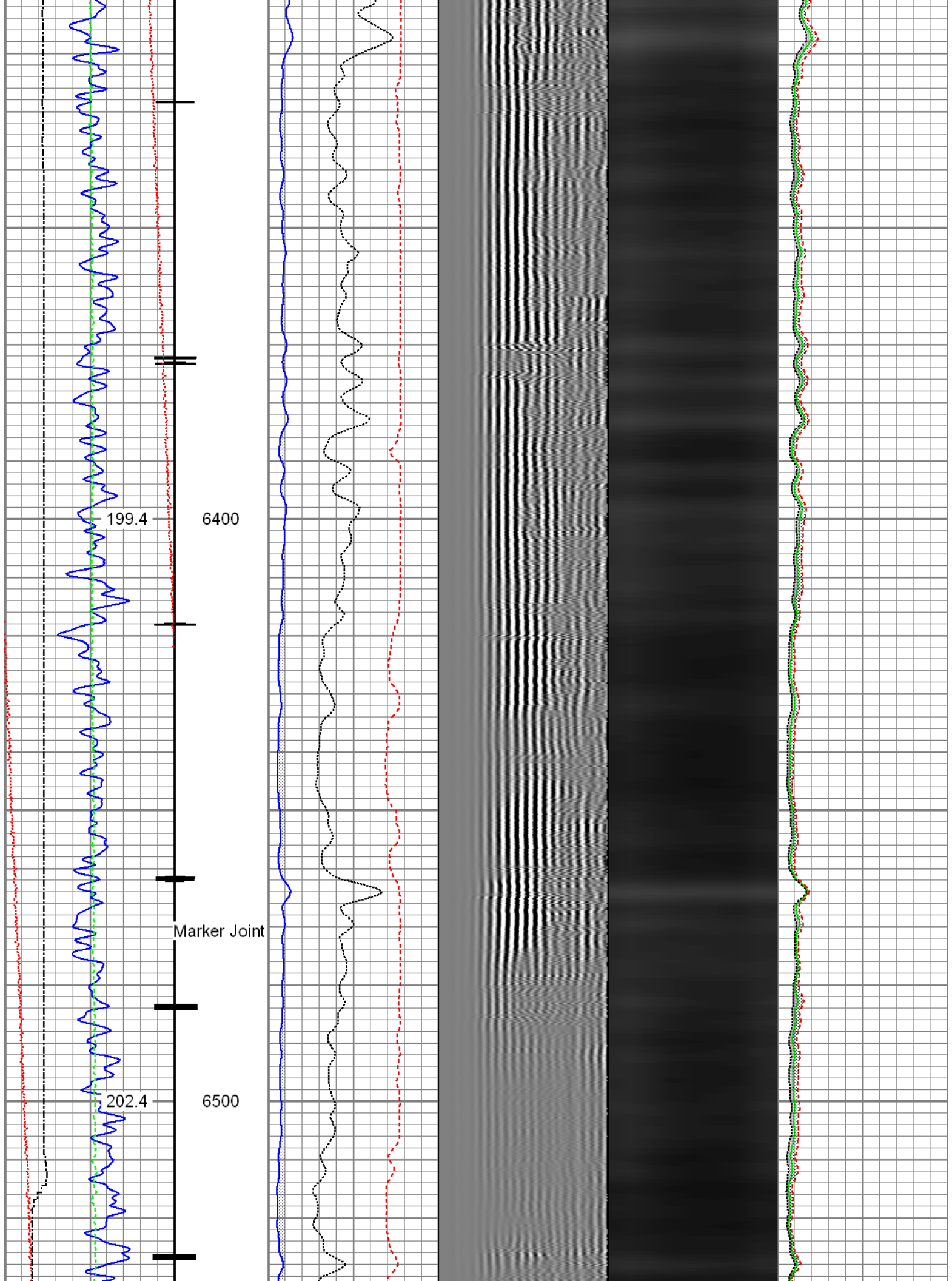


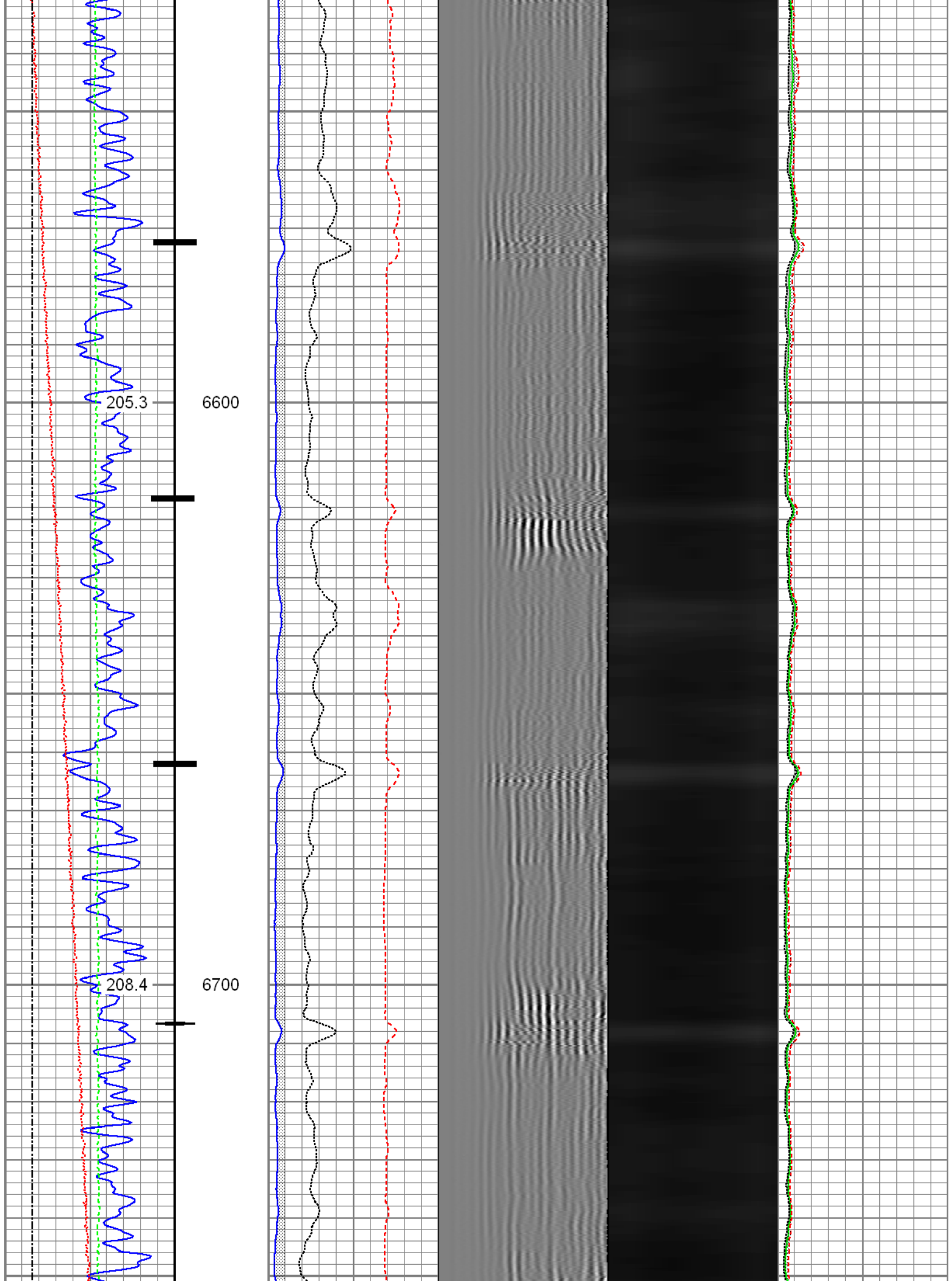


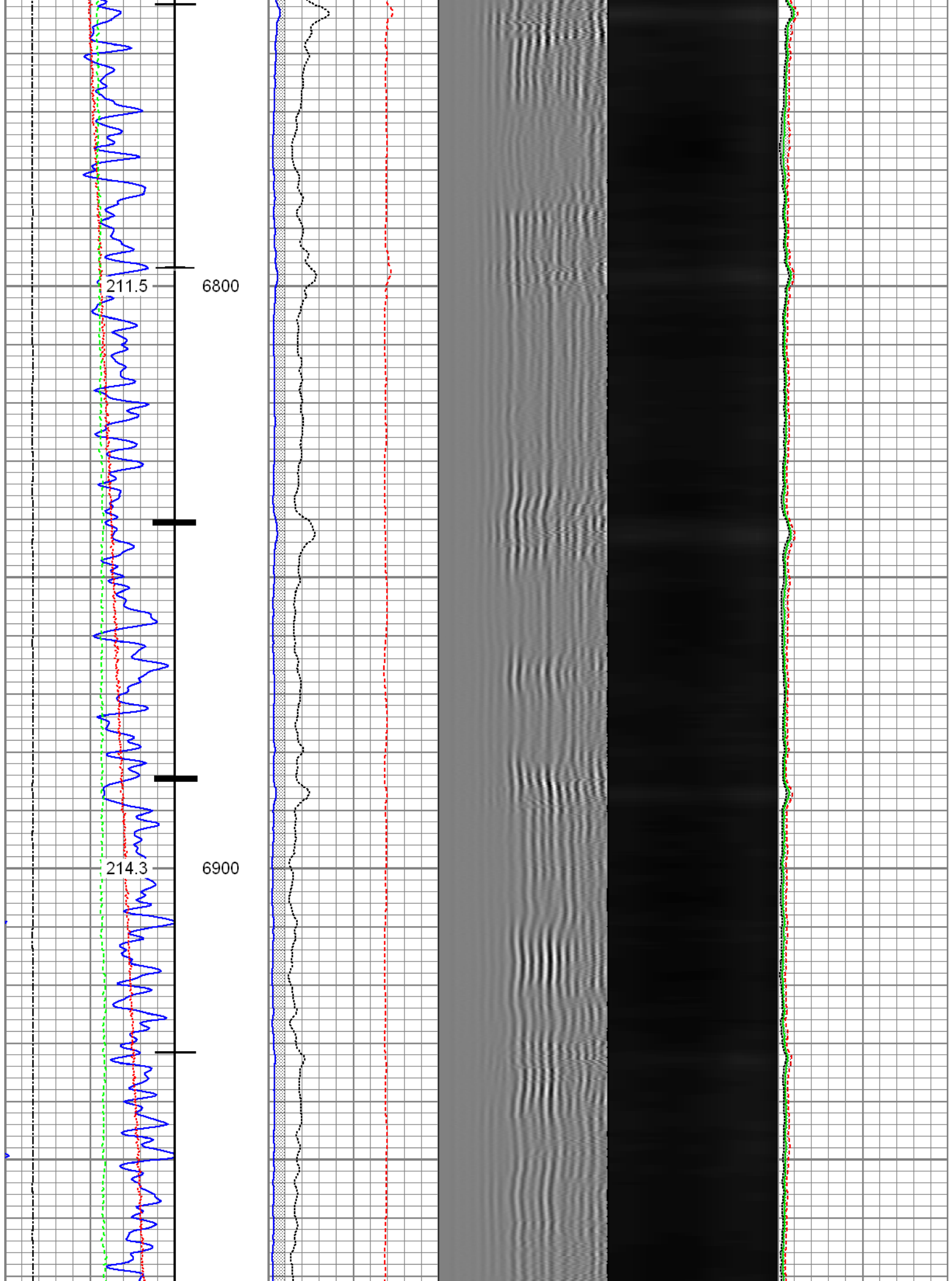


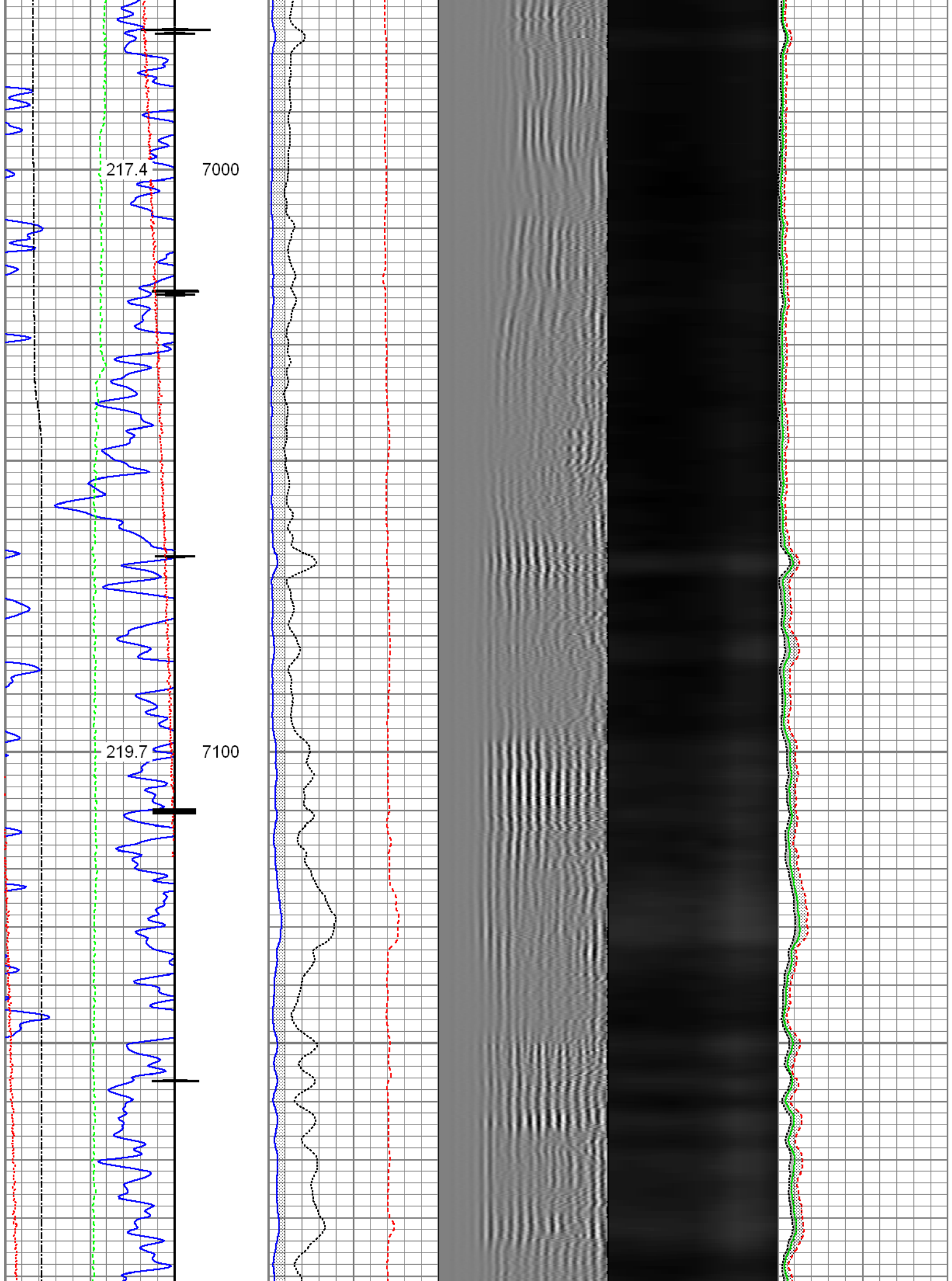


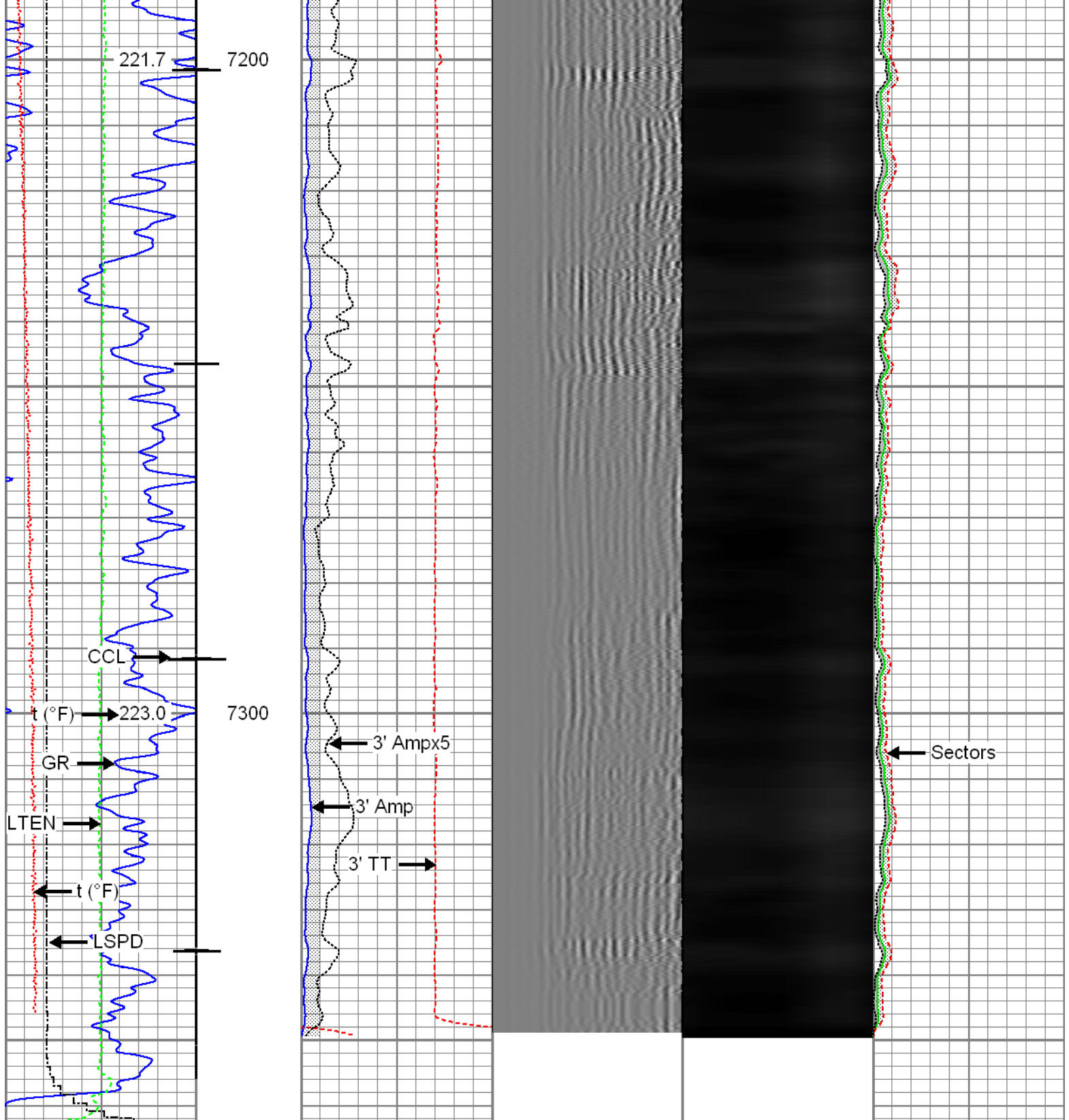












Gamma Ray 0 (GAPI) 120	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Temperature 0 (degF) 20	3' Travel Time 650 (uSec) 150			Maximum Amplitude 0 100
Line Speed -150 (ft/min) 150		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

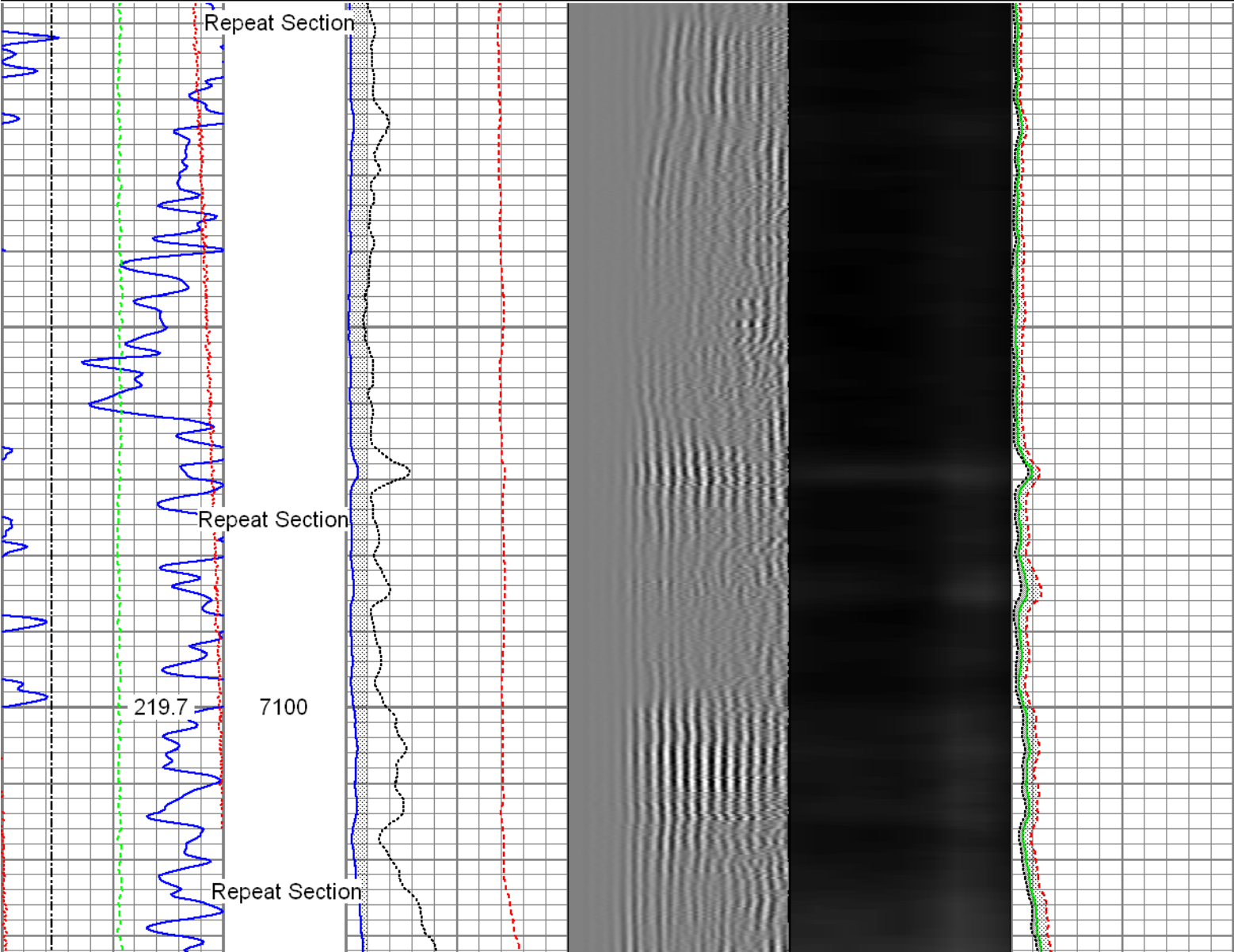


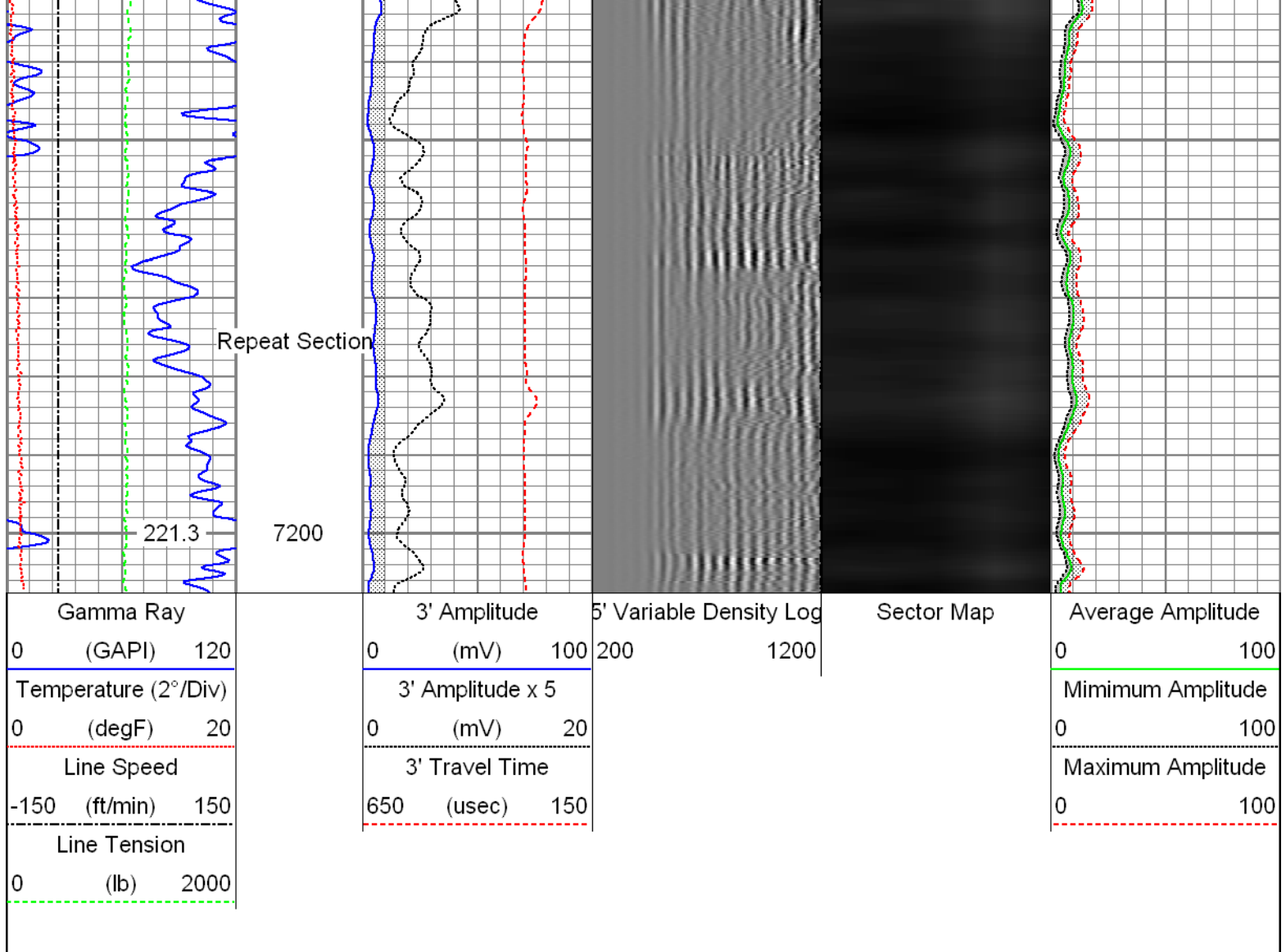
Repeat Pass

Recorded with 2800 PSI Surface Induced Pressure

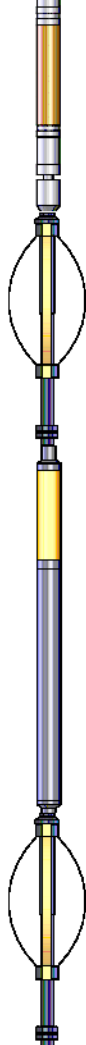
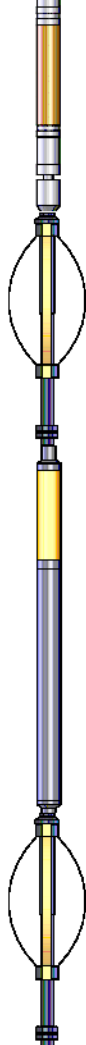
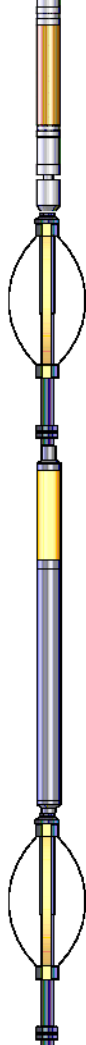
Database File: 0506906470_anadarko_miracle 40n-11hz_08-14-15_rbl.db
Dataset Pathname: pass2
Presentation Format: radii
Dataset Creation: Fri Aug 14 10:26:07 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Temperature (2°/Div)	3' Amplitude x 5			Minimum Amplitude
0 (degF) 20	0 (mV) 20			0 100
Line Speed	3' Travel Time			Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150			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
			Probe_RADII-C-2-3/4" (FW1302-001) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
HeadVolt	19.49					
Temp	16.72					
WVF3FT	14.55					
WVFCAL	14.55					
WVFS1	14.55					
WVFS2	14.55					

WVFS3	14.55		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
WVFS4	14.55					
WVFS5	14.55					
WVFS6	14.55					
WVFS7	14.55					
WVFS8	14.55					
WVF5FT	13.55					
CCL	6.51		Probe_CCL_GR-2.75"Digital (FW1307-038) 4.54 Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.88	2.75	10.00
DCCL	6.51					
GR	3.77		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: 0506906470_Anadarko_Miracle 40N-11HZ_08-14-15_RBL.db: field/well/run1/pass3 Total Length: 23.40 ft Total Weight: 194.00 lb O.D. 2.75 in						

Calibration Report		
Database File:	0506906470_Anadarko_Miracle 40N-11HZ_08-14-15_RBL.db	
Dataset Pathname:	pass3	
Dataset Creation:	Fri Aug 14 10:31:28 2015 by Log 7.0 B1	

Gamma Ray Calibration Report		
Serial Number:	FW1307-038	
Tool Model:	2.75"Digital	
Performed:	Wed Jul 29 15:50:16 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:	FW1302-001	
Tool Model:	2-3/4"	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	20.000	ft

Master Calibration, performed Fri Aug 14 10:03:36 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.634	0.800	71.921	112.554	0.590
CAL	0.002	0.746				
5'	0.001	0.552	0.800	71.921	129.162	0.623
SUM						
S1	-0.003	0.658	0.000	100.000	151.378	0.466
S2	0.002	0.627	0.000	100.000	159.878	-0.304
S3	0.002	0.624	0.000	100.000	160.785	-0.275
S4	0.002	0.632	0.000	100.000	158.735	-0.271
S5	0.002	0.638	0.000	100.000	157.266	-0.307
S6	0.002	0.655	0.000	100.000	152.993	-0.265
S7	0.002	0.687	0.000	100.000	146.061	-0.296
S8	0.002	0.692	0.000	100.000	144.927	-0.265

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	0.002	0.746	1.000	0.000

Air Zero Calibration, performed Fri Aug 14 10:03:19 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 Miracle 40N-11HZ
 Field Wattenberg
 County Larimer
 State Colorado