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<p>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.</p>
Comments
<p>Log ran as per customer request Depth referenced to casing tally reported liner top at 6381 FT Adjusted log +21.5 FT to correlate with liner top Gauge Ring/Junk Basket ran to 7364 FT no debris was found after run Log ran from 7276 FT to surface Log ran with 2800 PSI surface induced pressure No debris found on logging tools upon completion of run</p> <p>Thank you for choosing FMC Technologies Completion Services, Inc.!!</p>



Database File: c:\warrior\data\anadarko_cream state 2n-21hz\0512340958_anadarko_cream state 2n-21hz_07-21-15

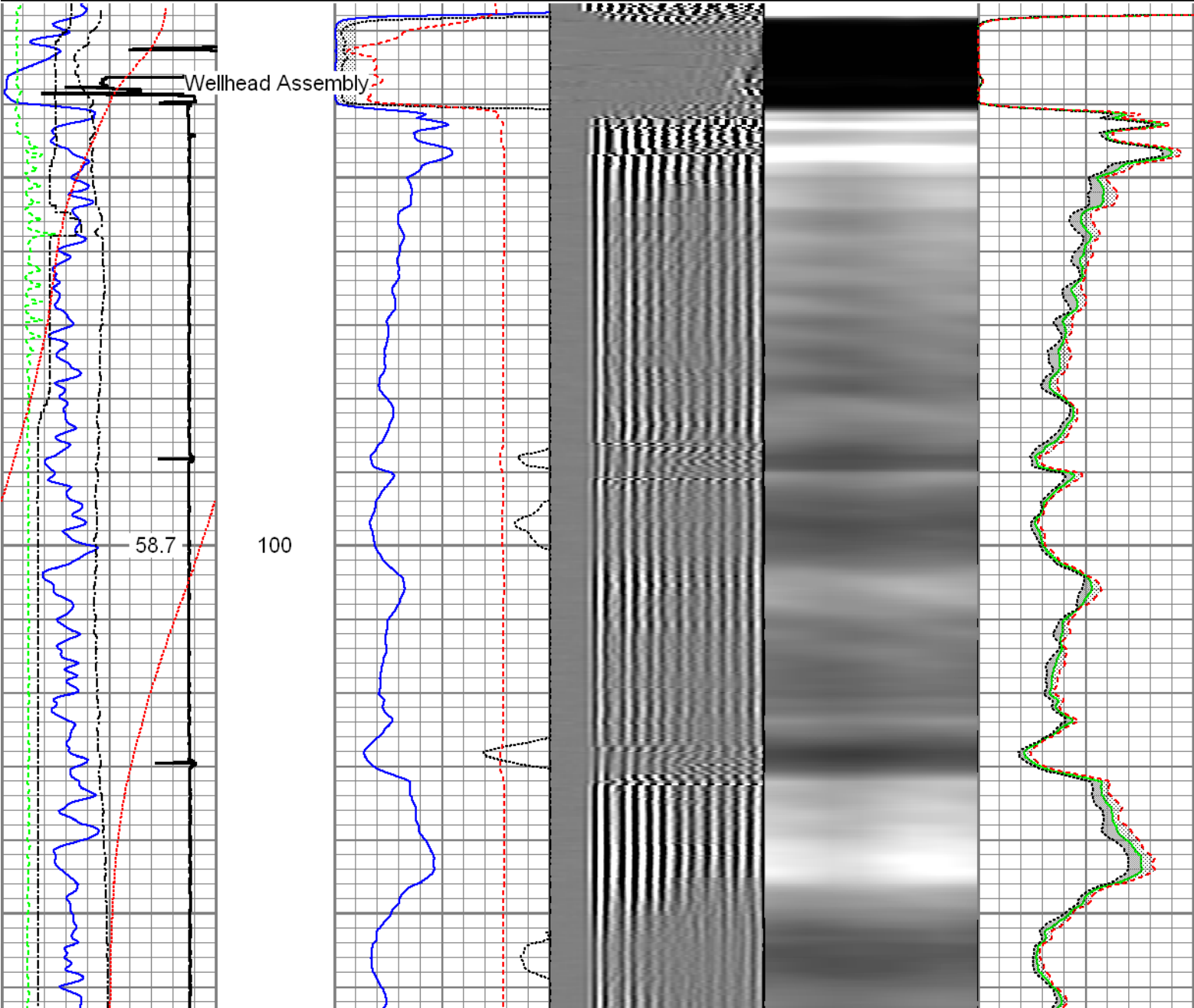
Dataset Pathname: pass4

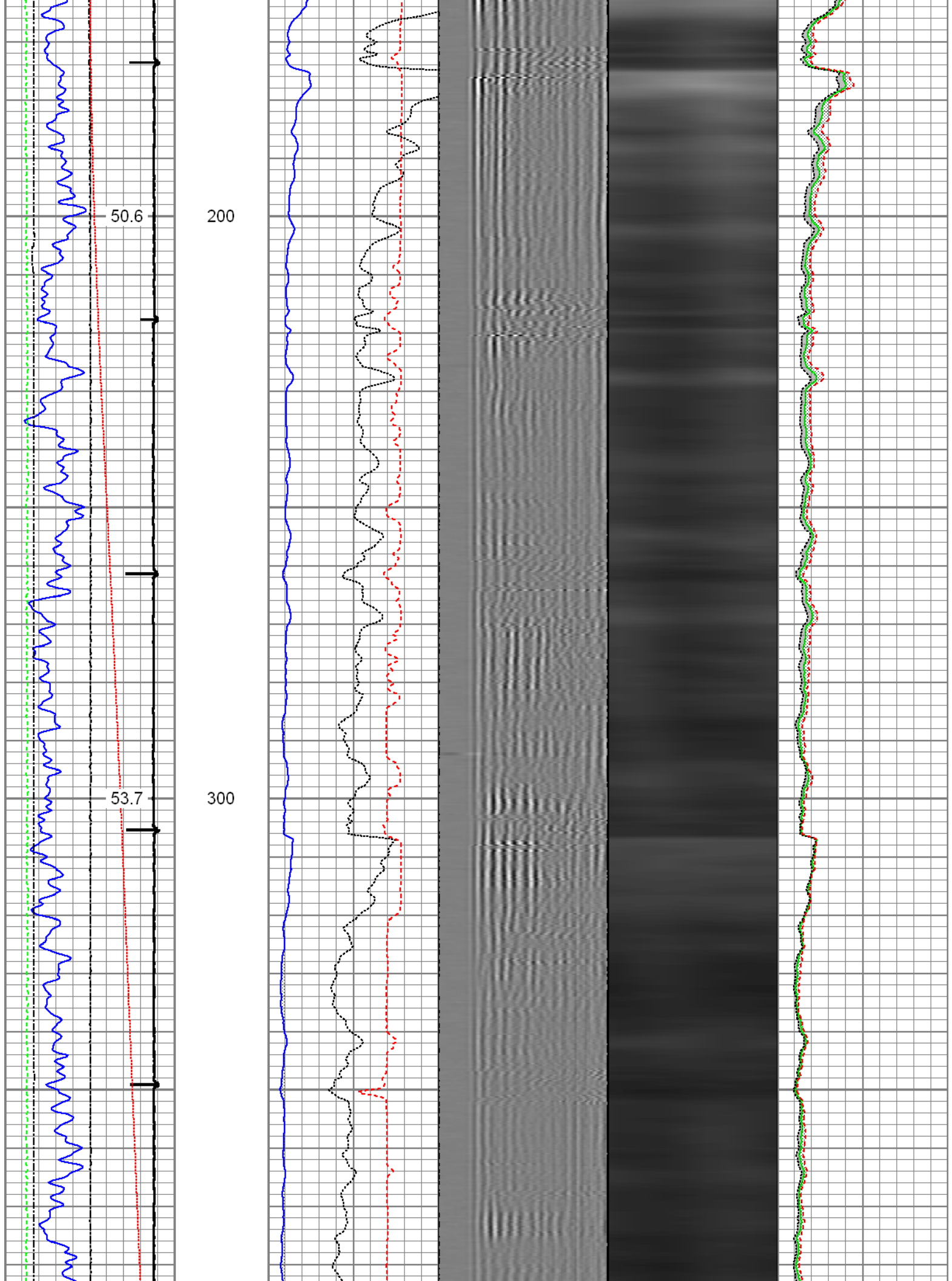
Presentation Format: rbt4_mit

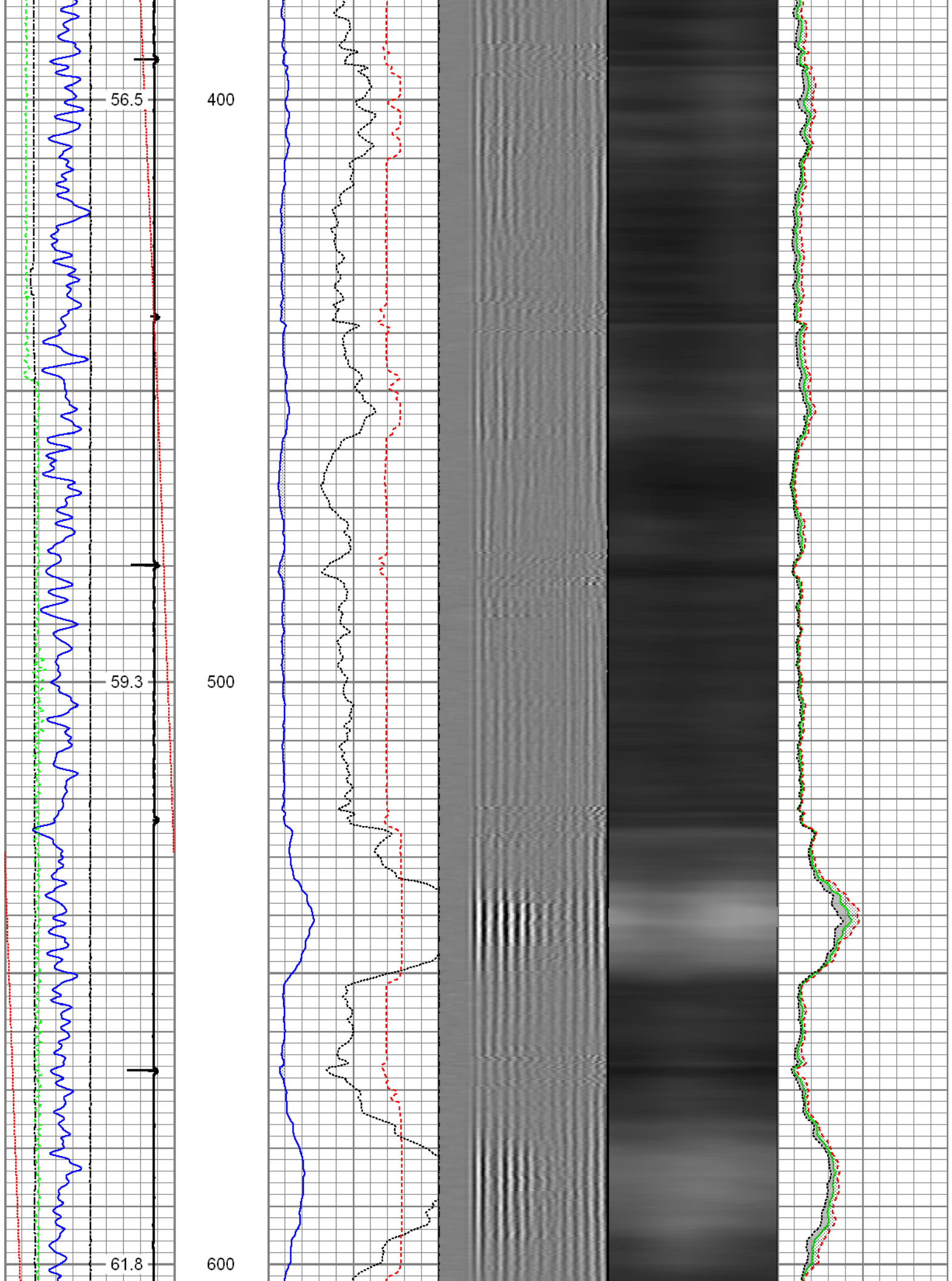
Dataset Creation: Tue Jul 21 09:16:01 2015 by Log 7.0 B1

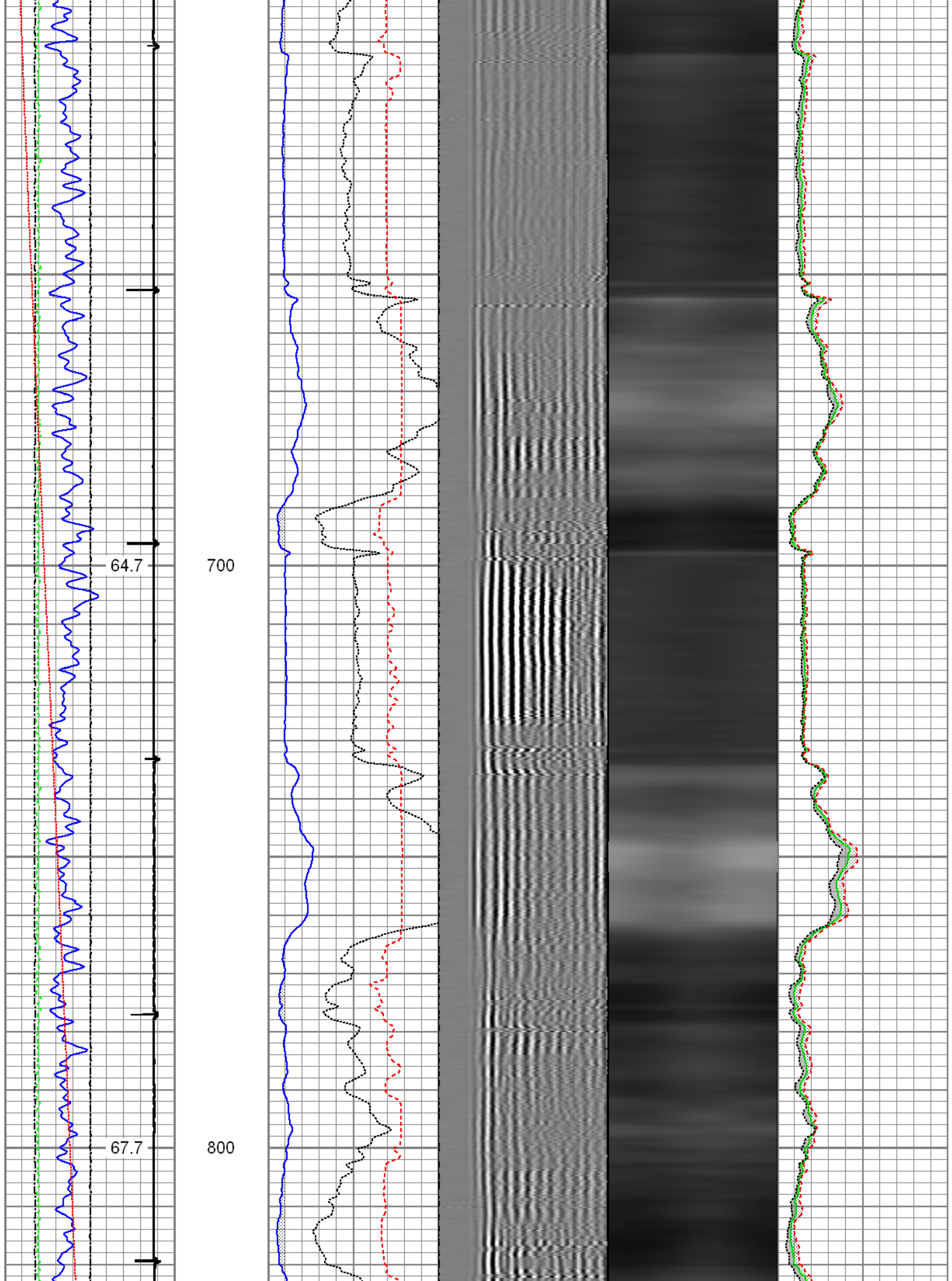
Charted by: Depth in Feet scaled 1:240

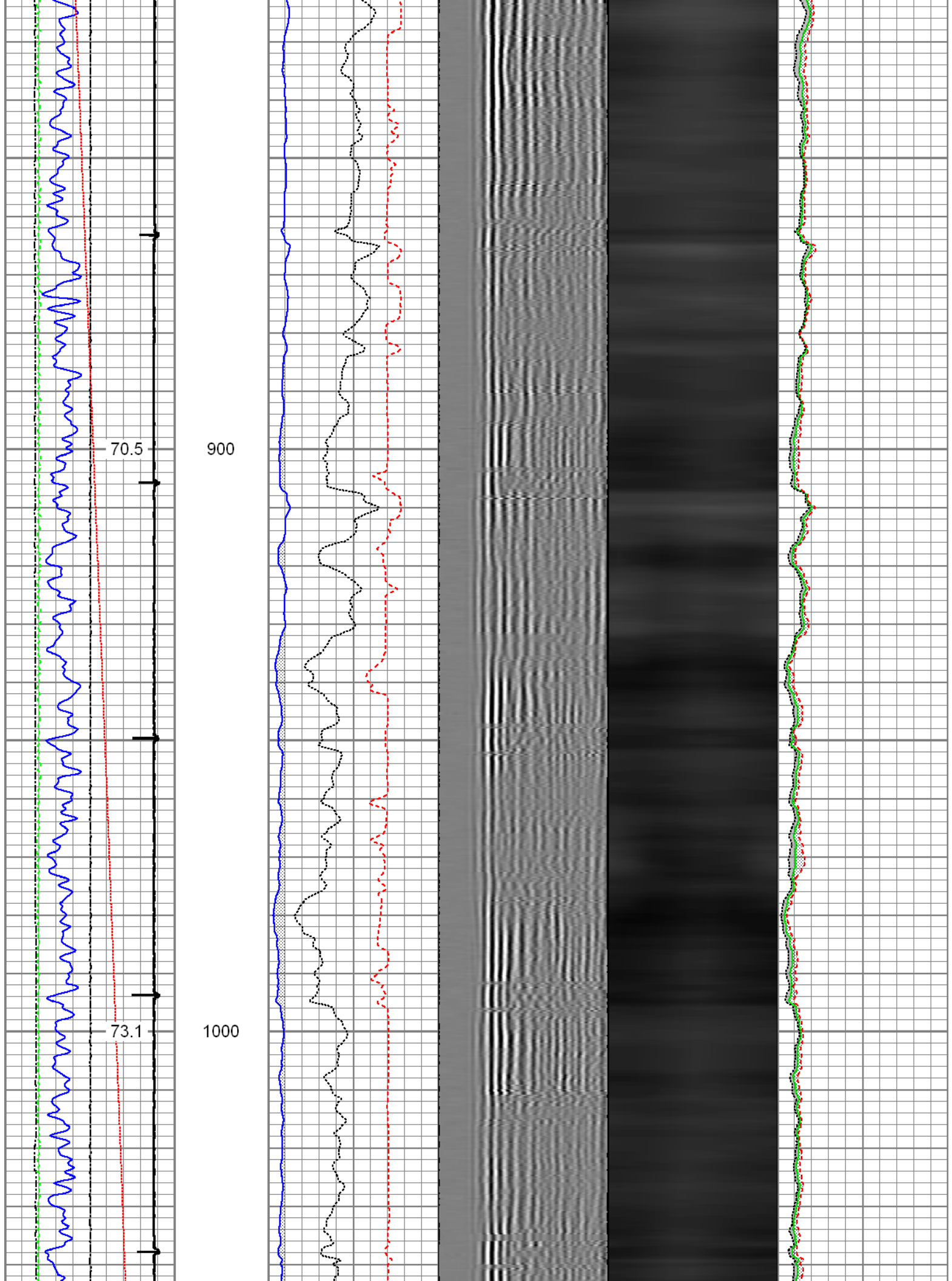
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				
Differential Temperature				
-2 (degF) 2				
Temperature				
0 (degF) 20				

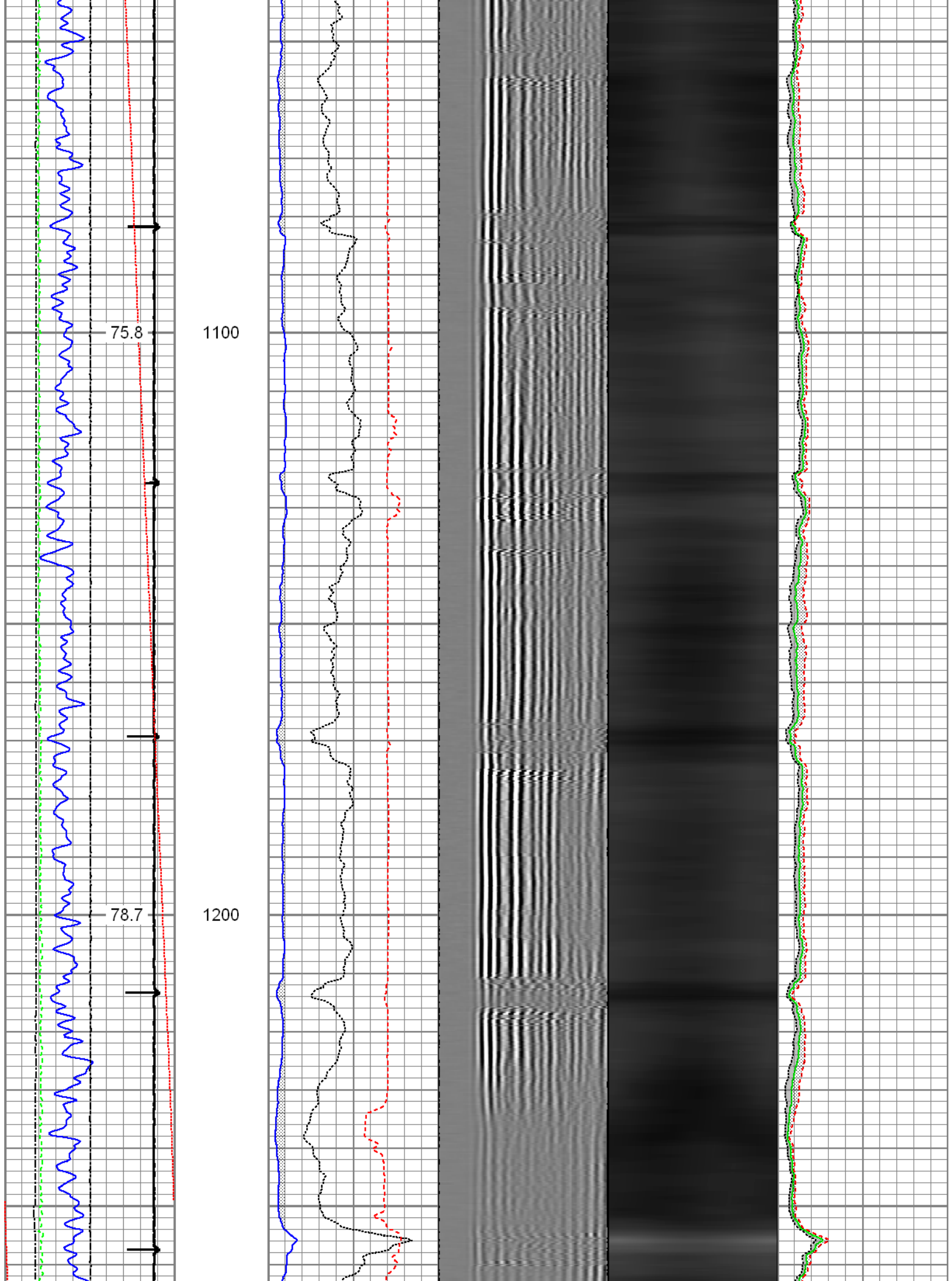


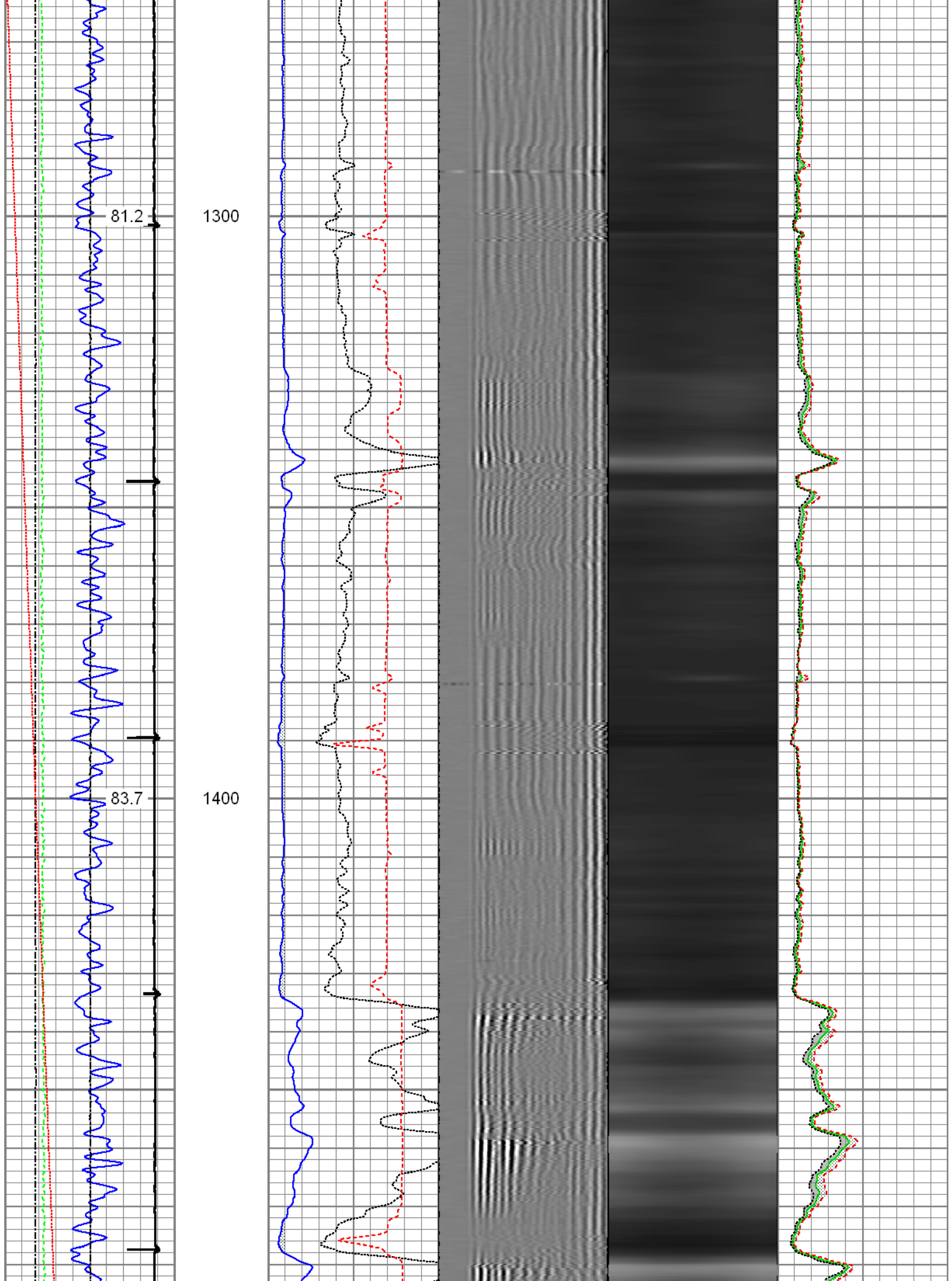


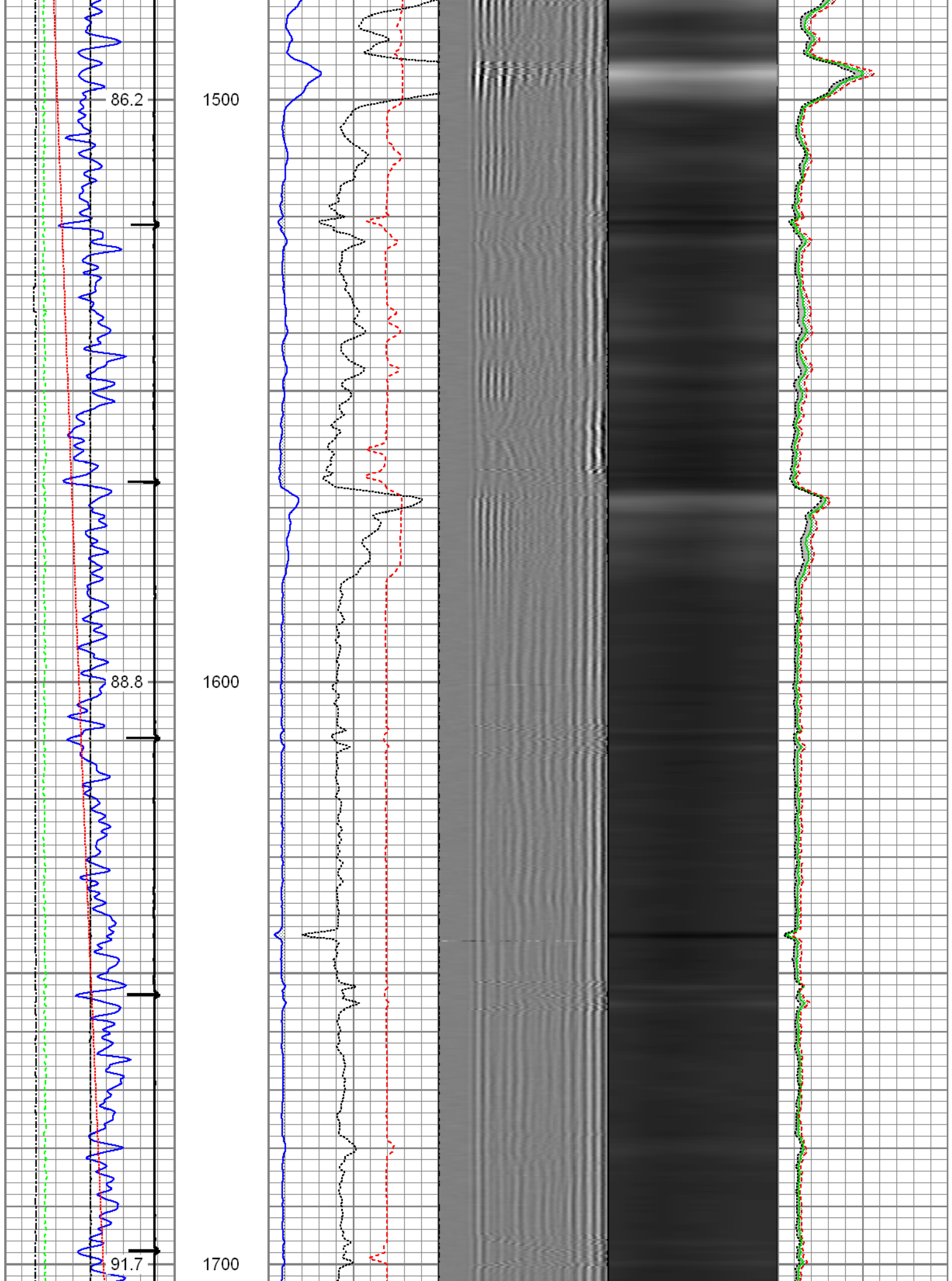


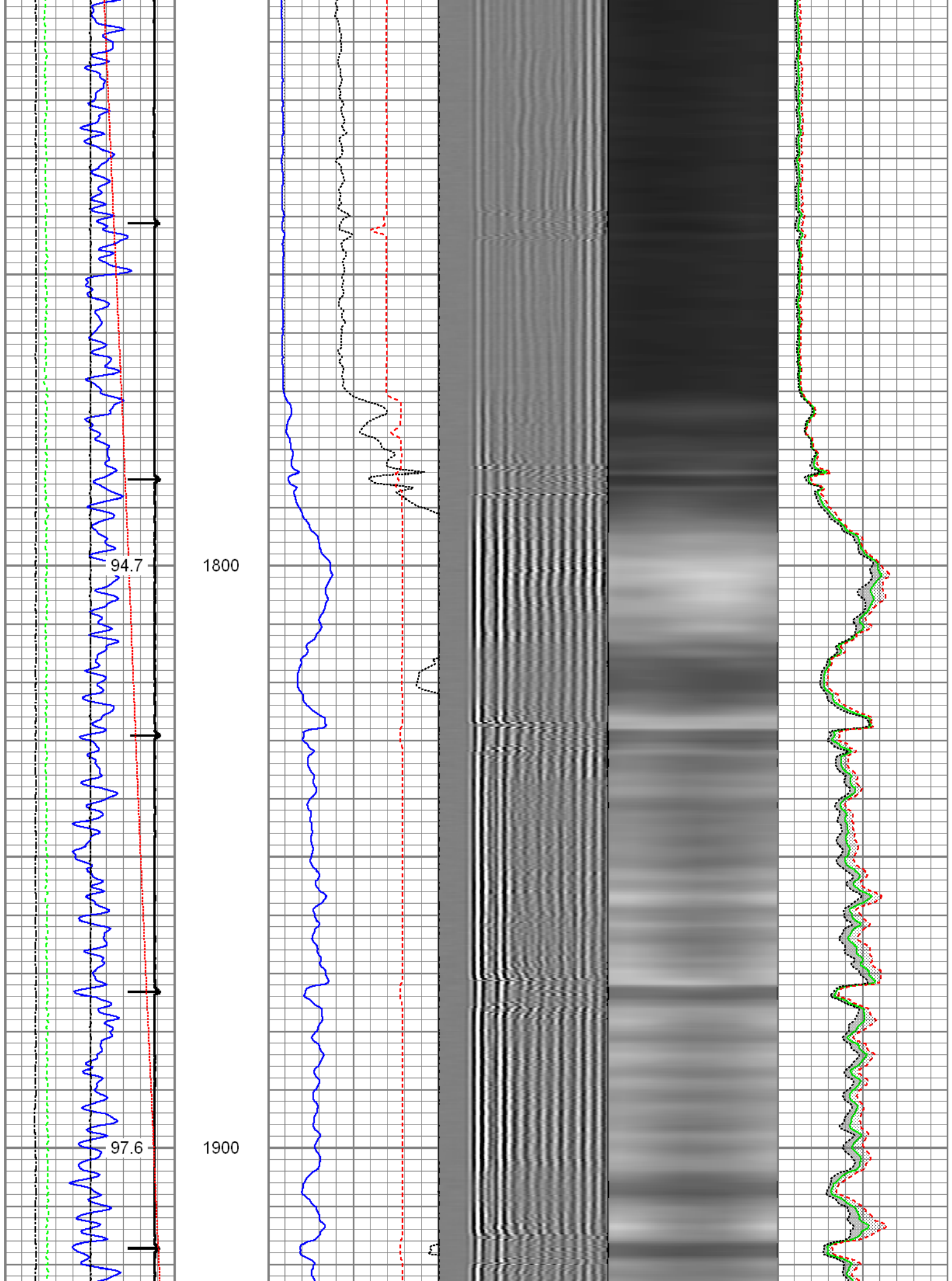


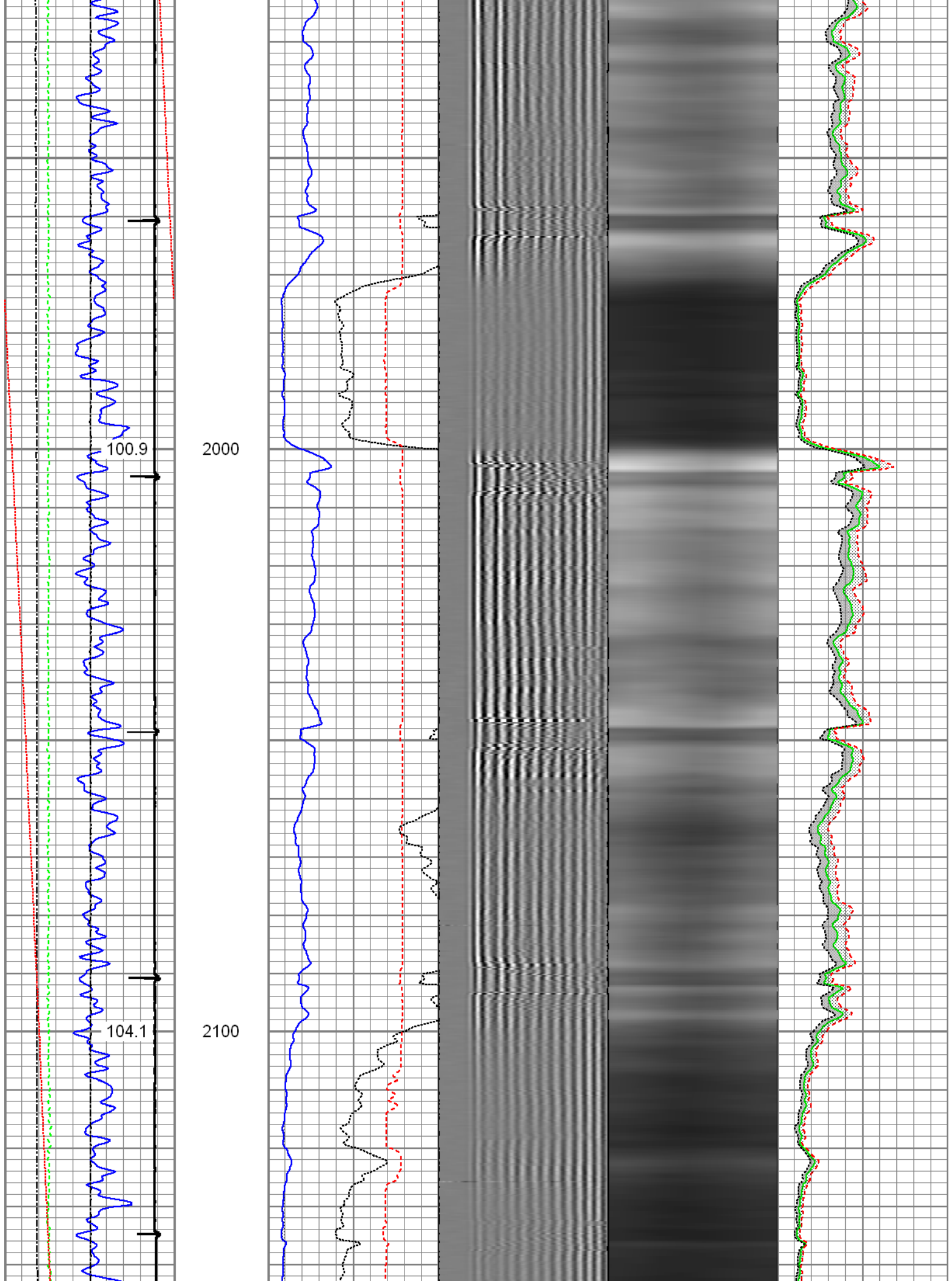


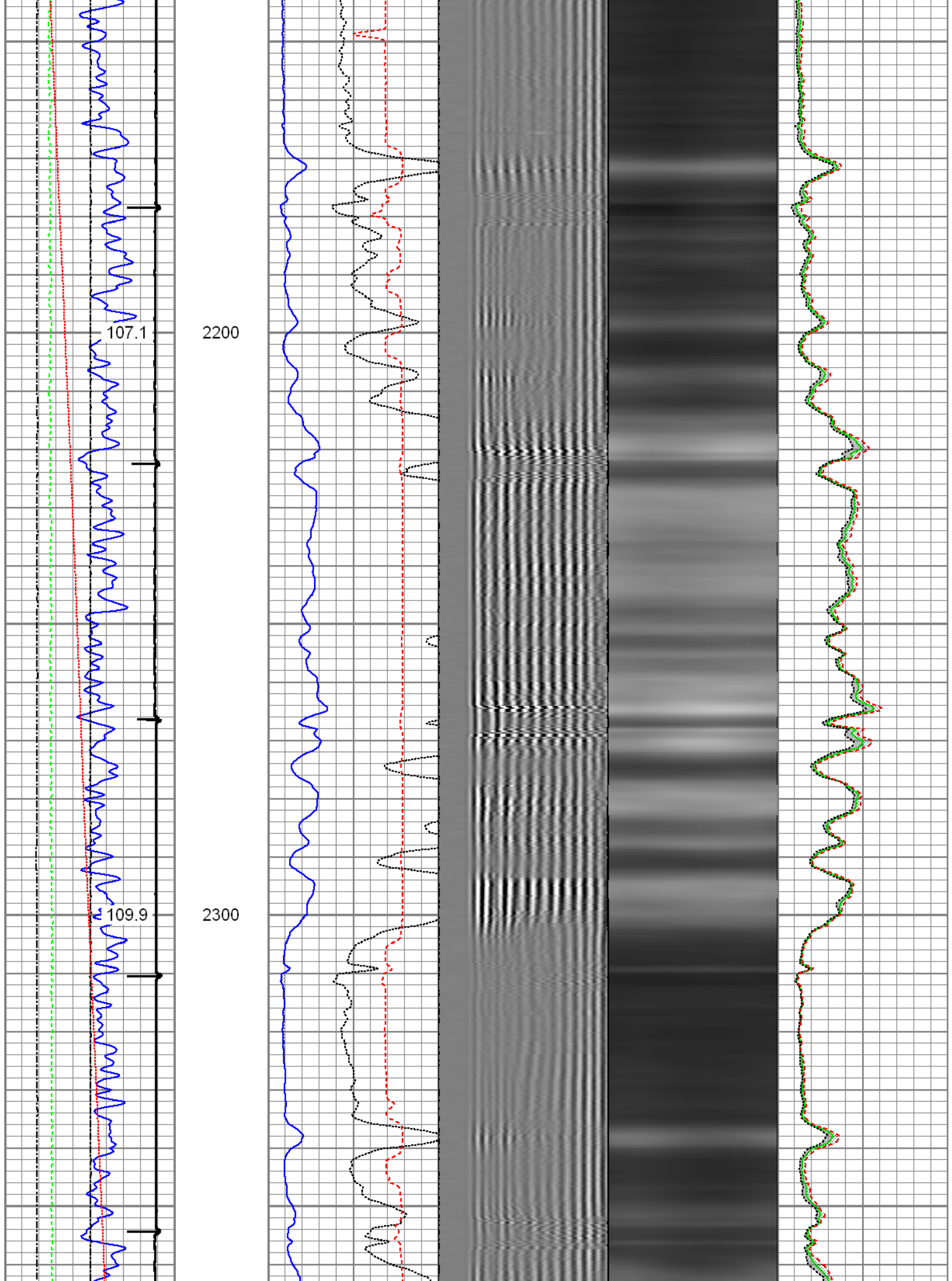


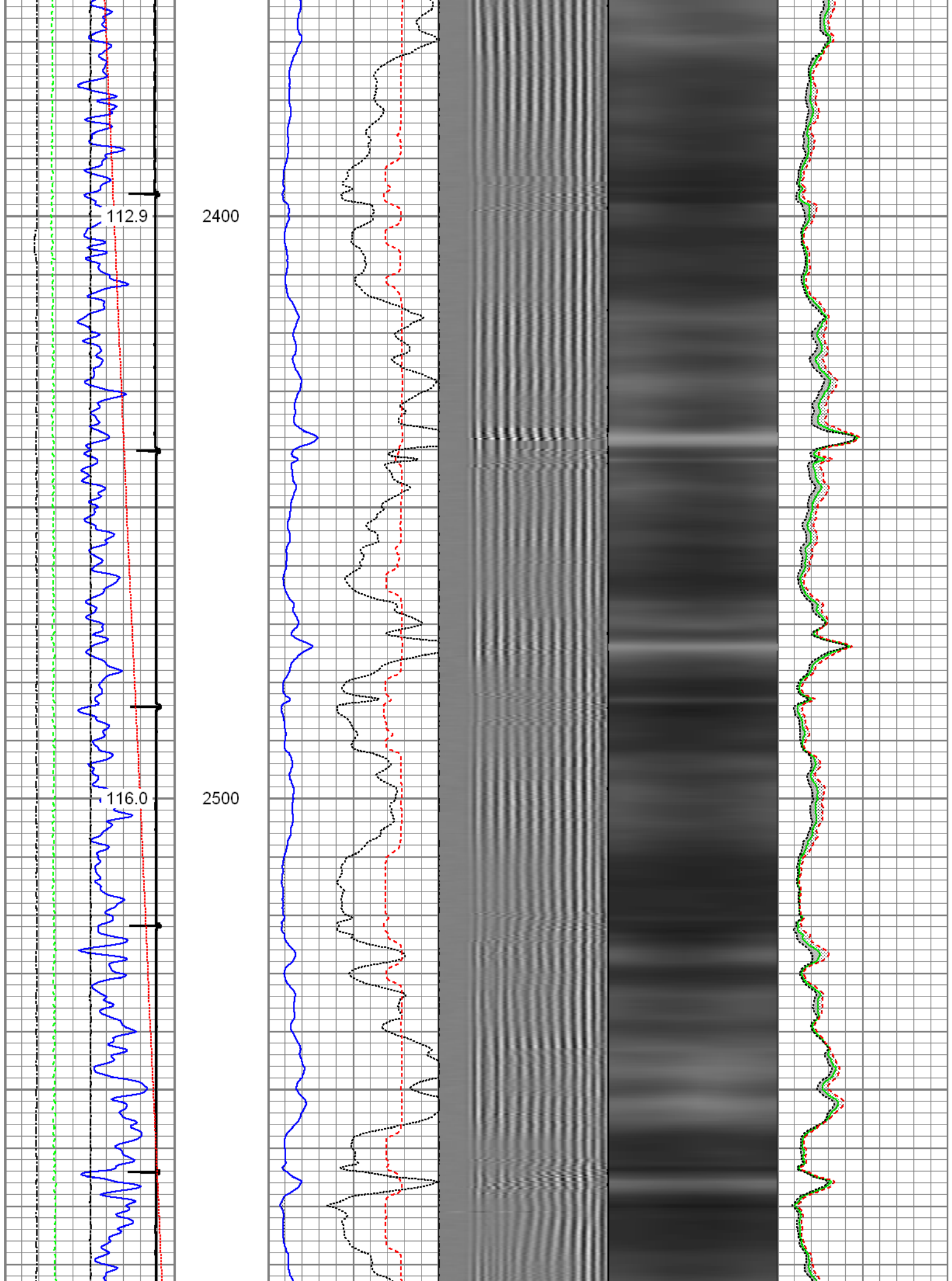


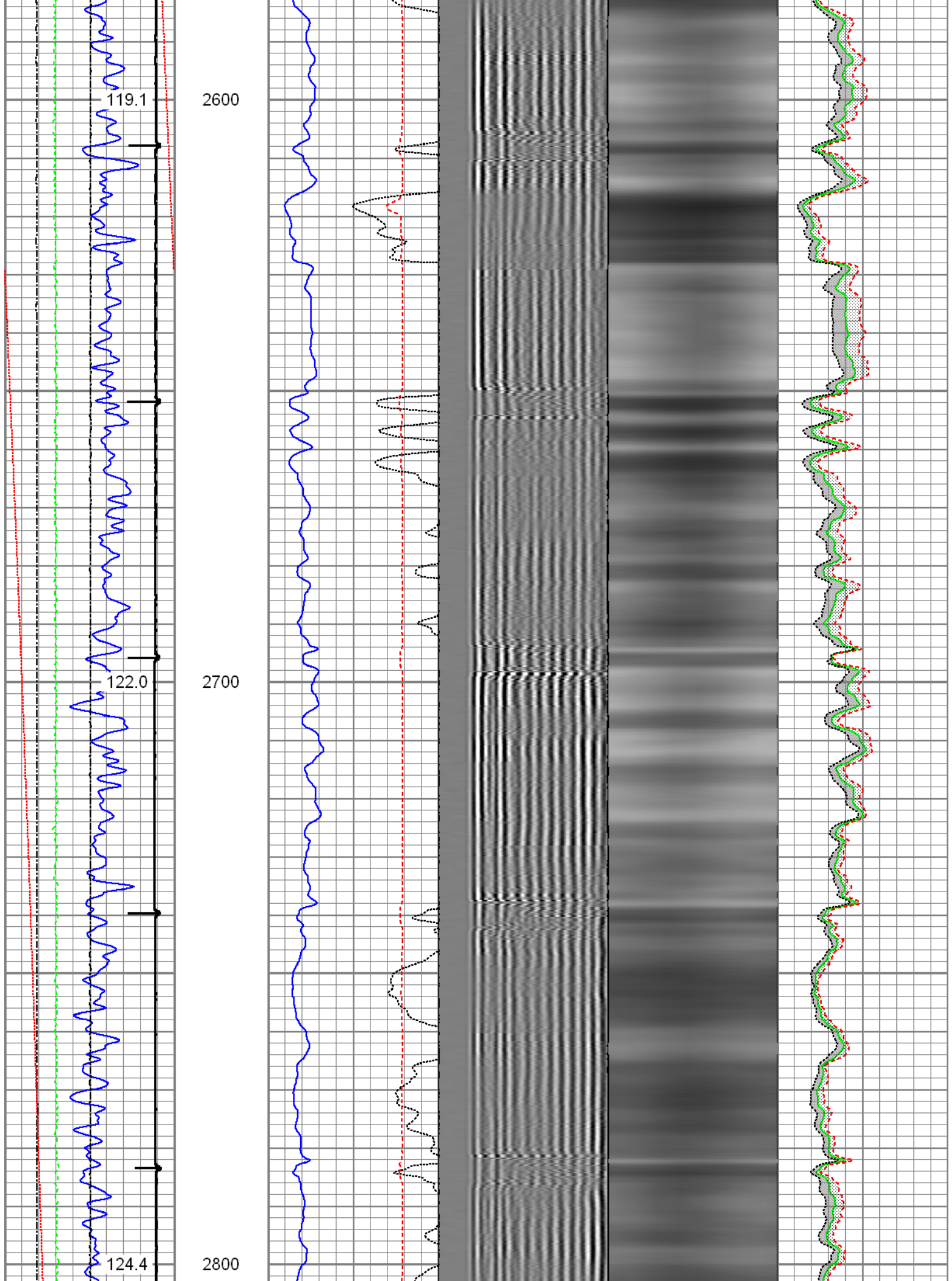


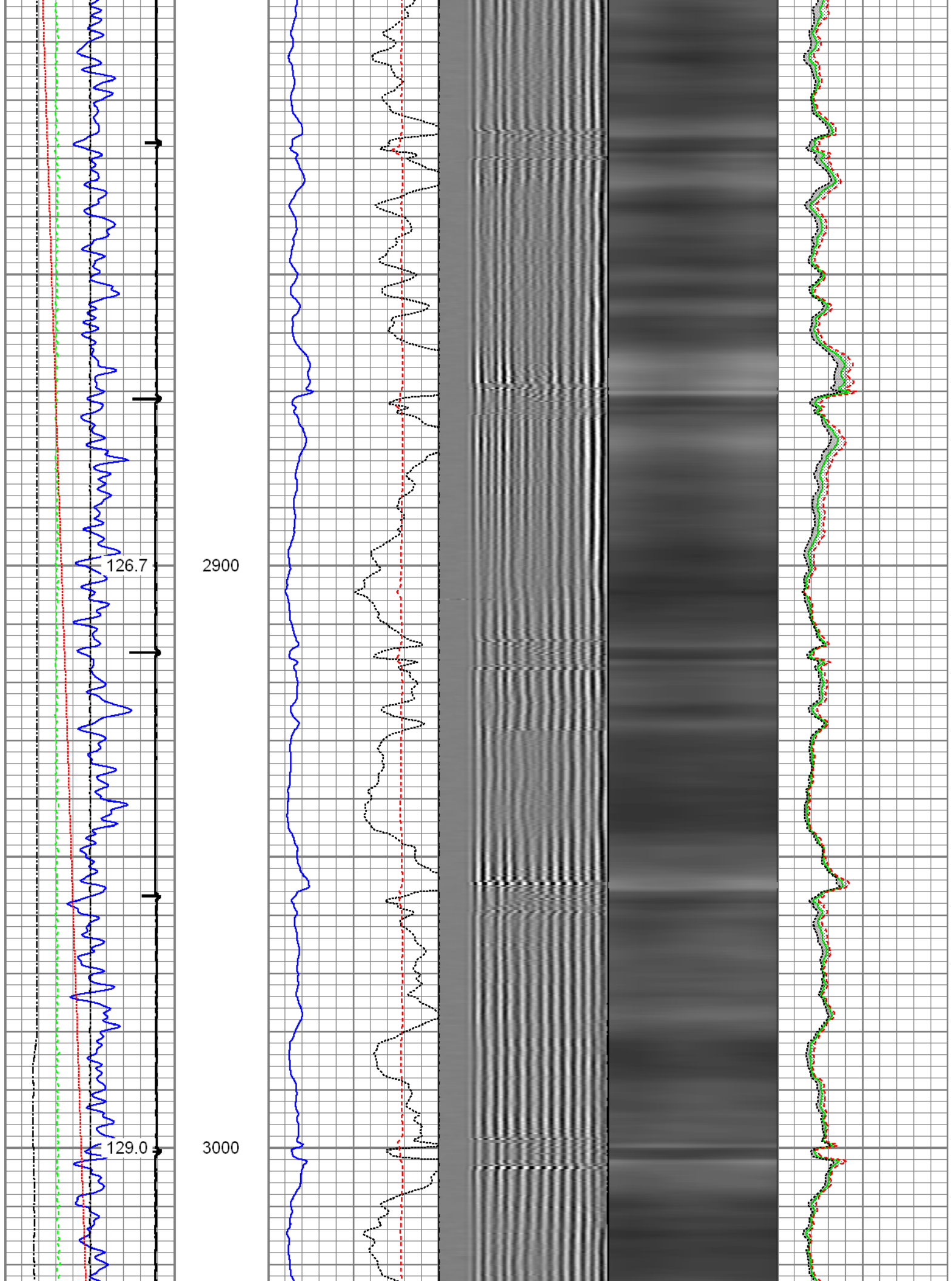


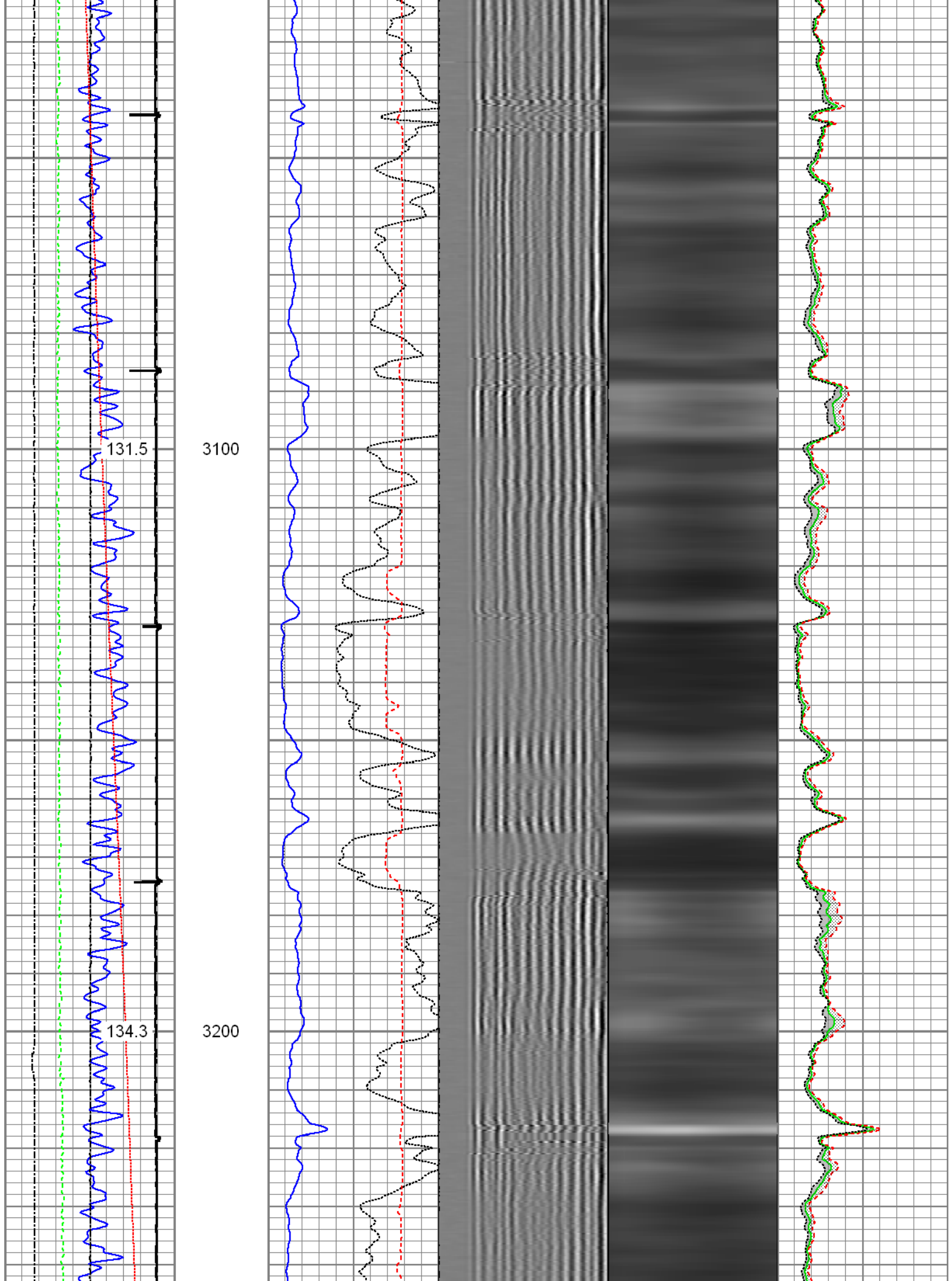


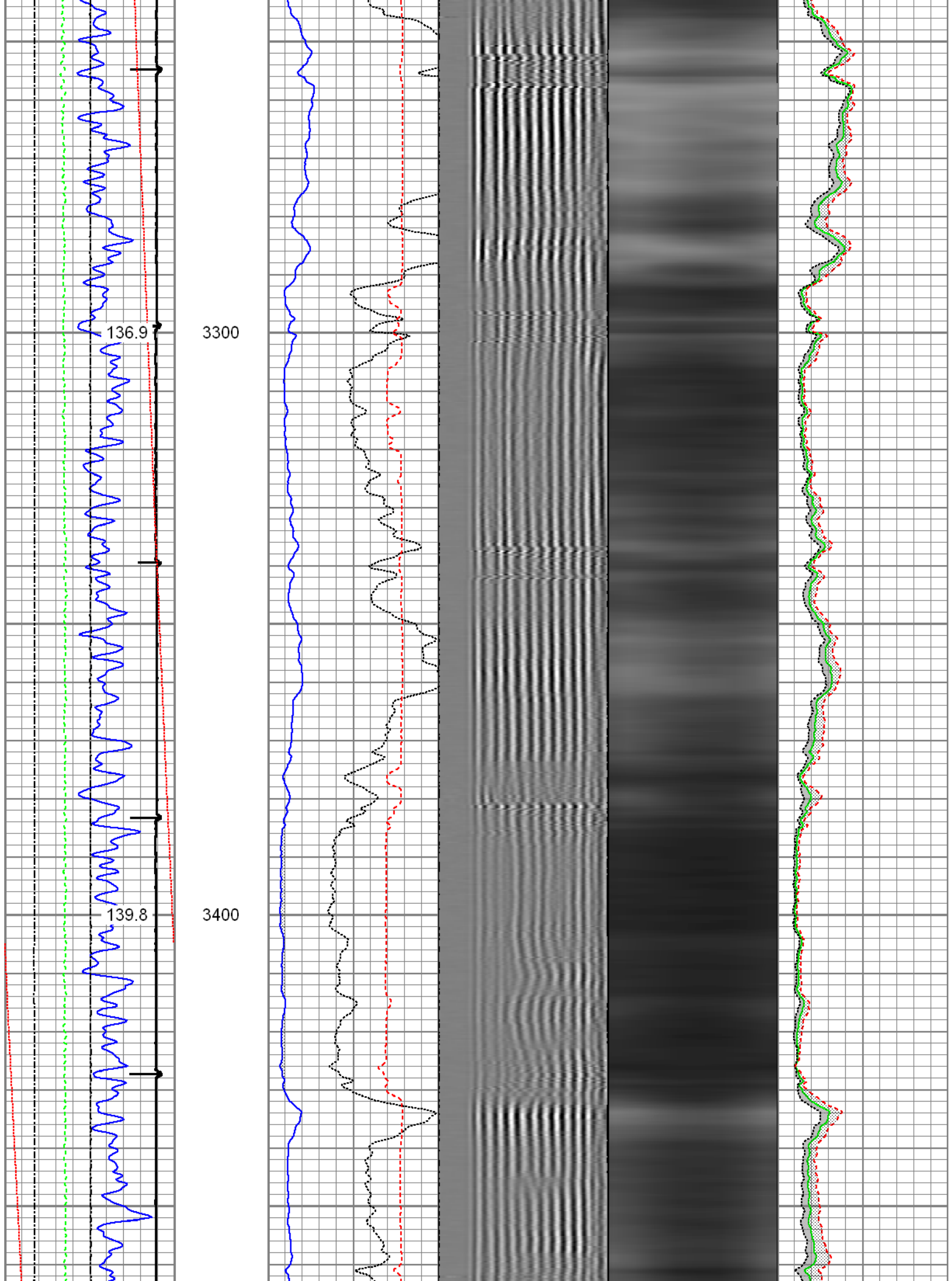


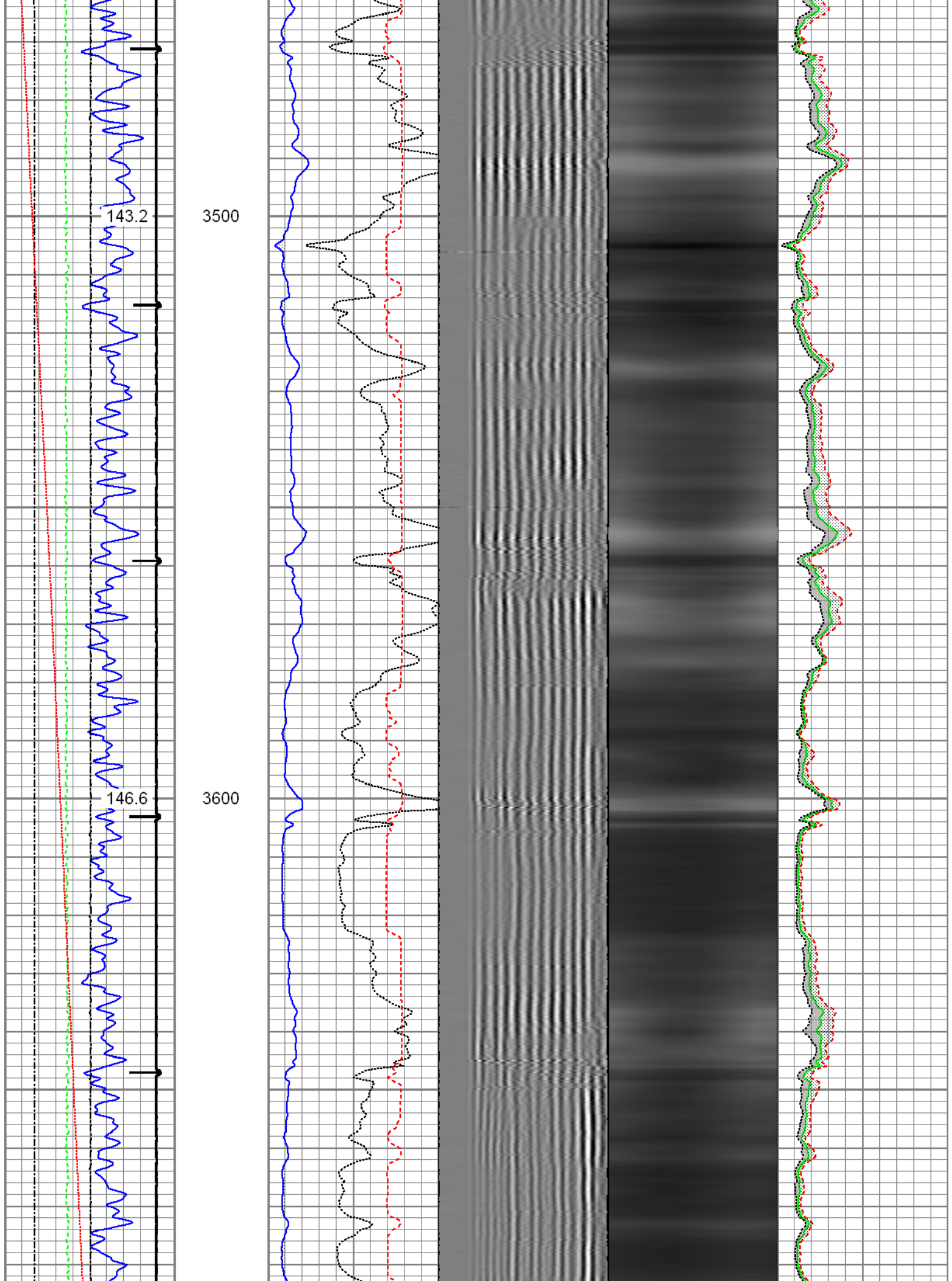


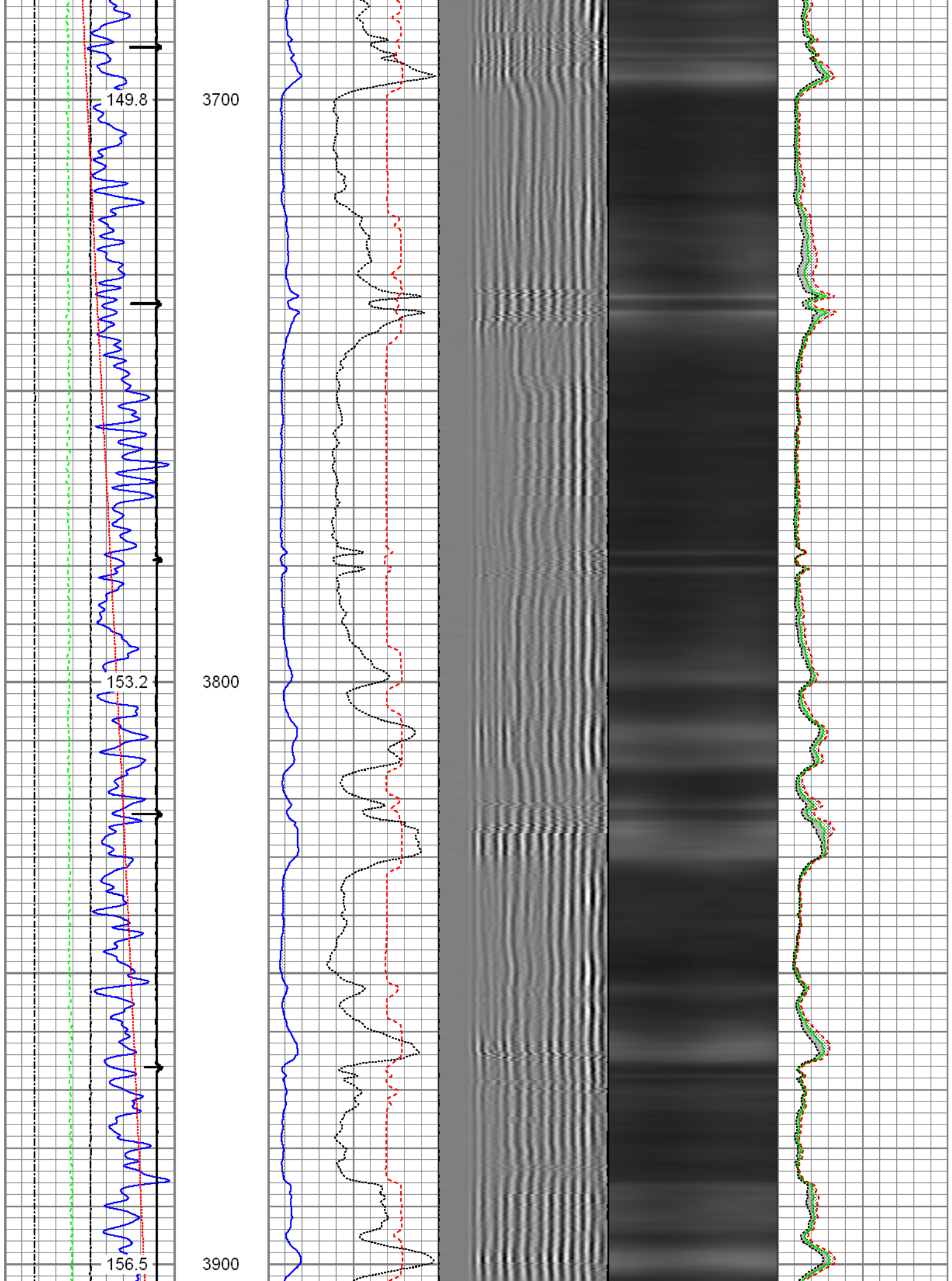


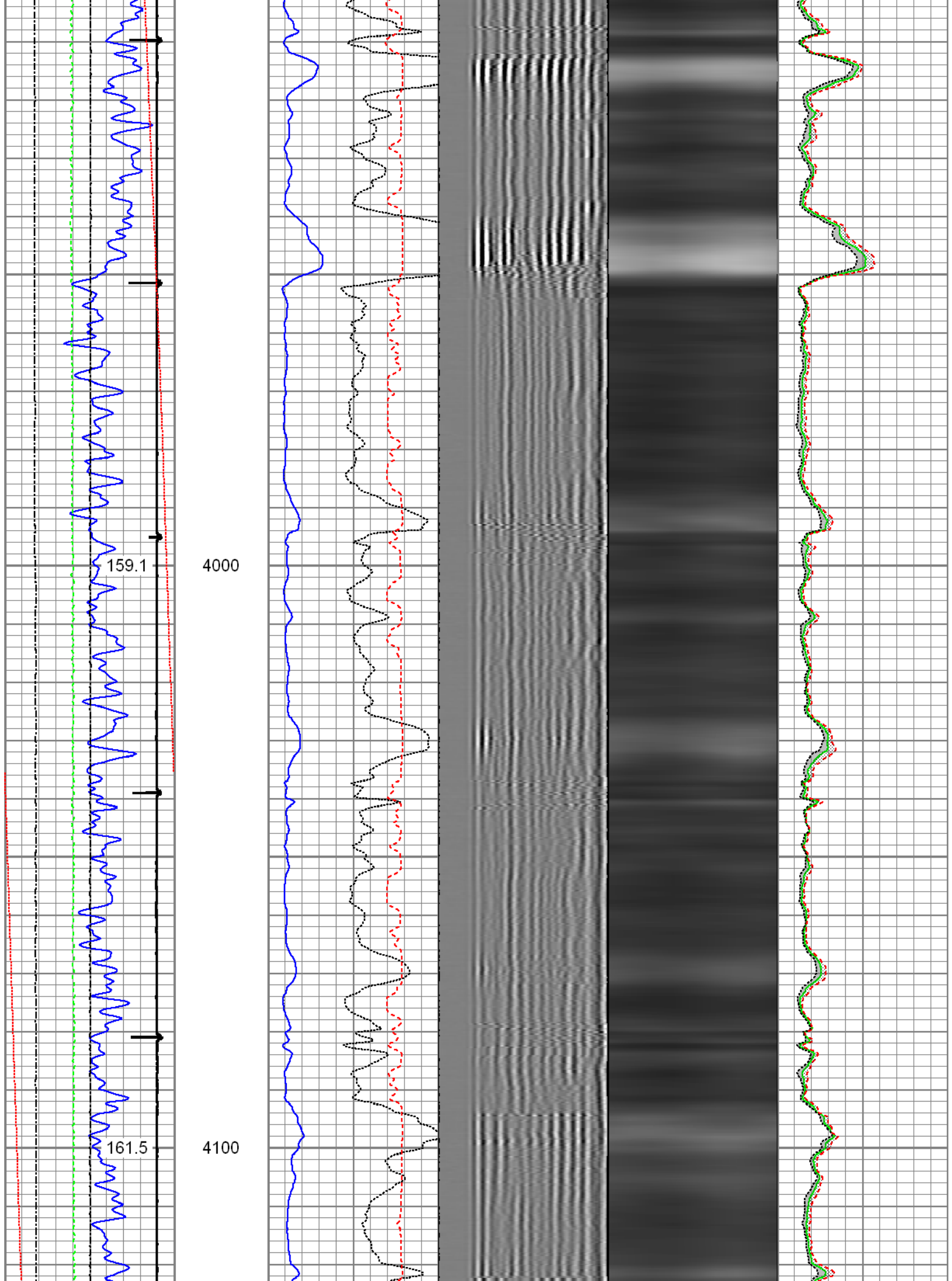


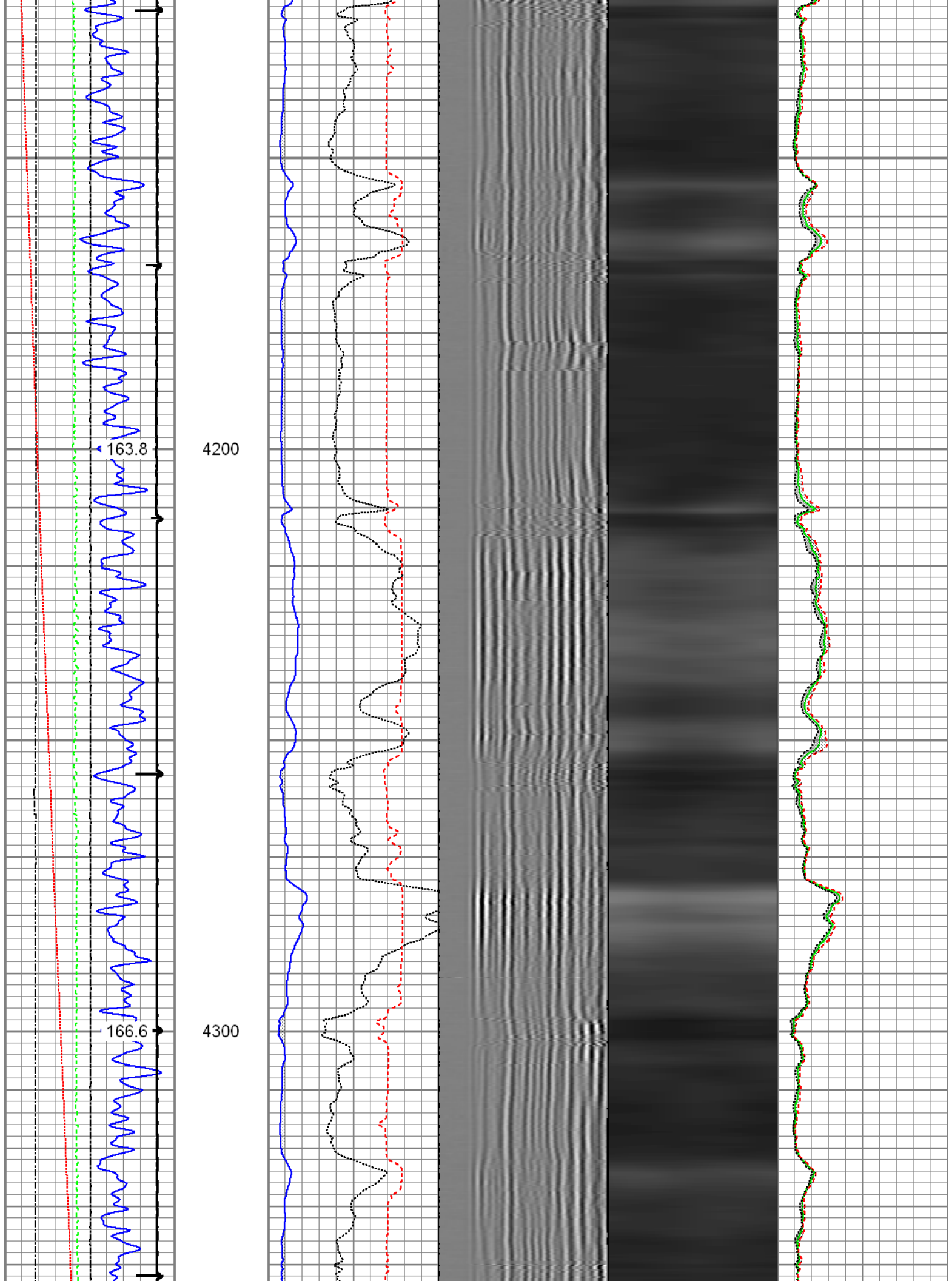


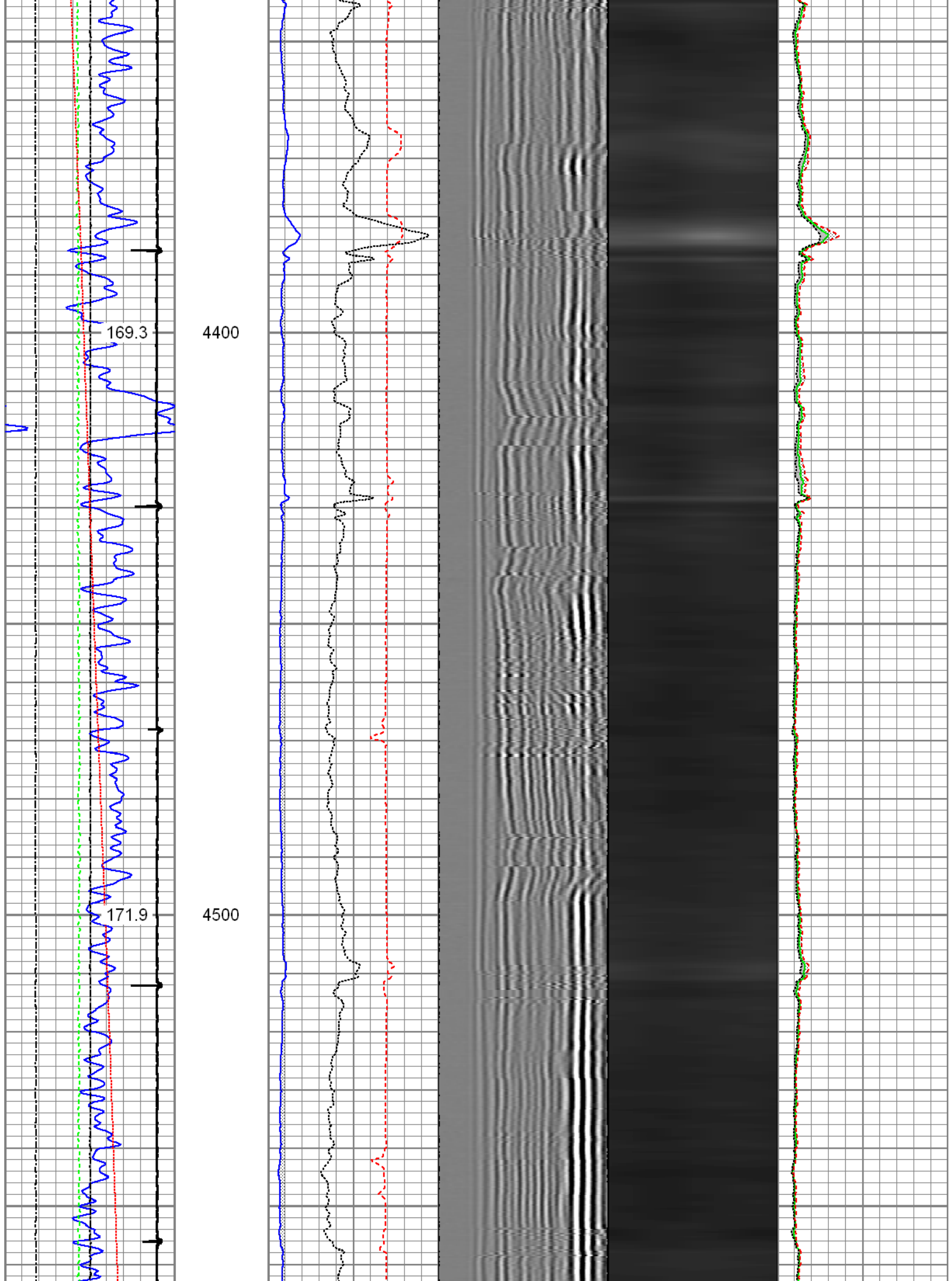


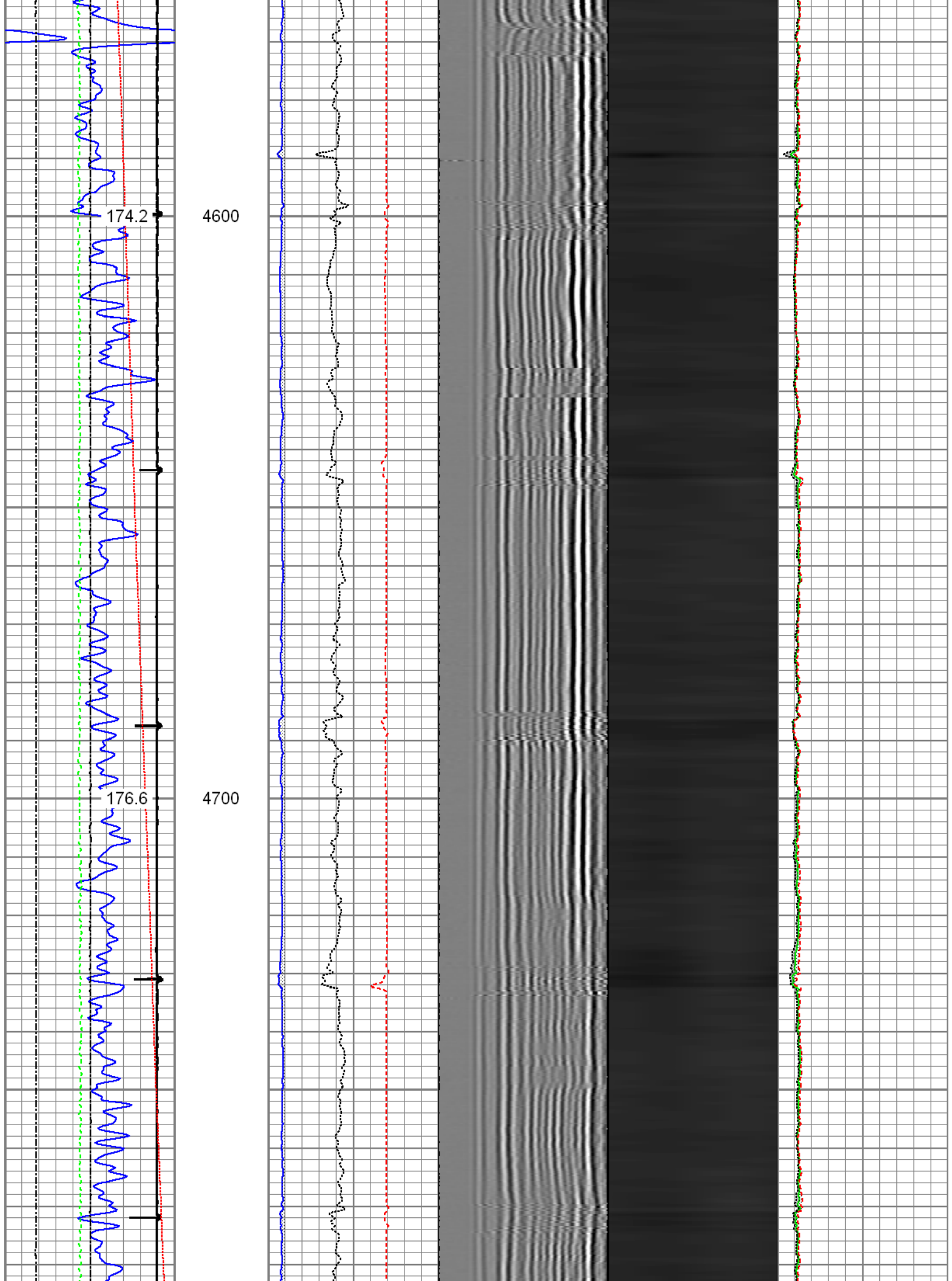


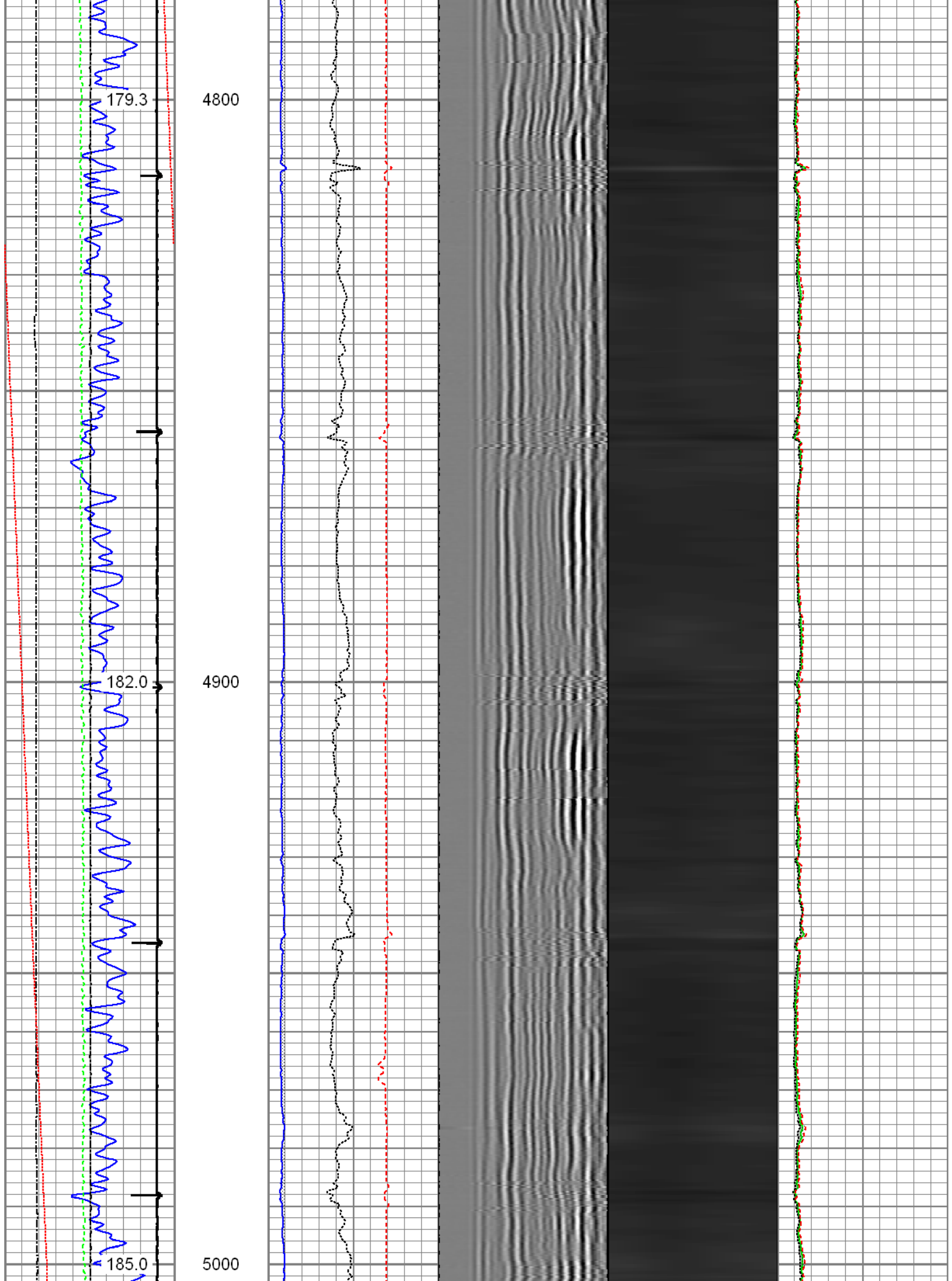


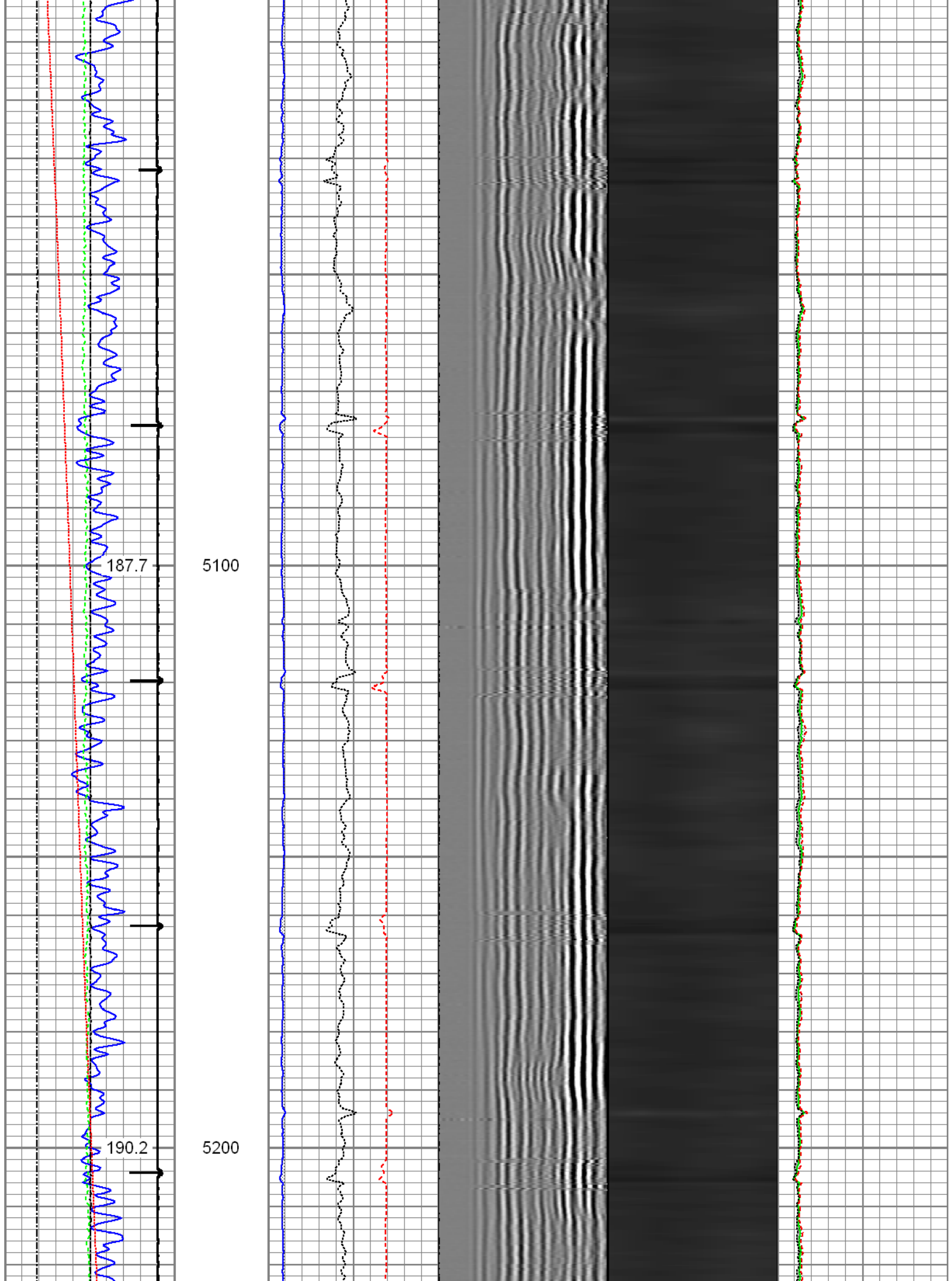


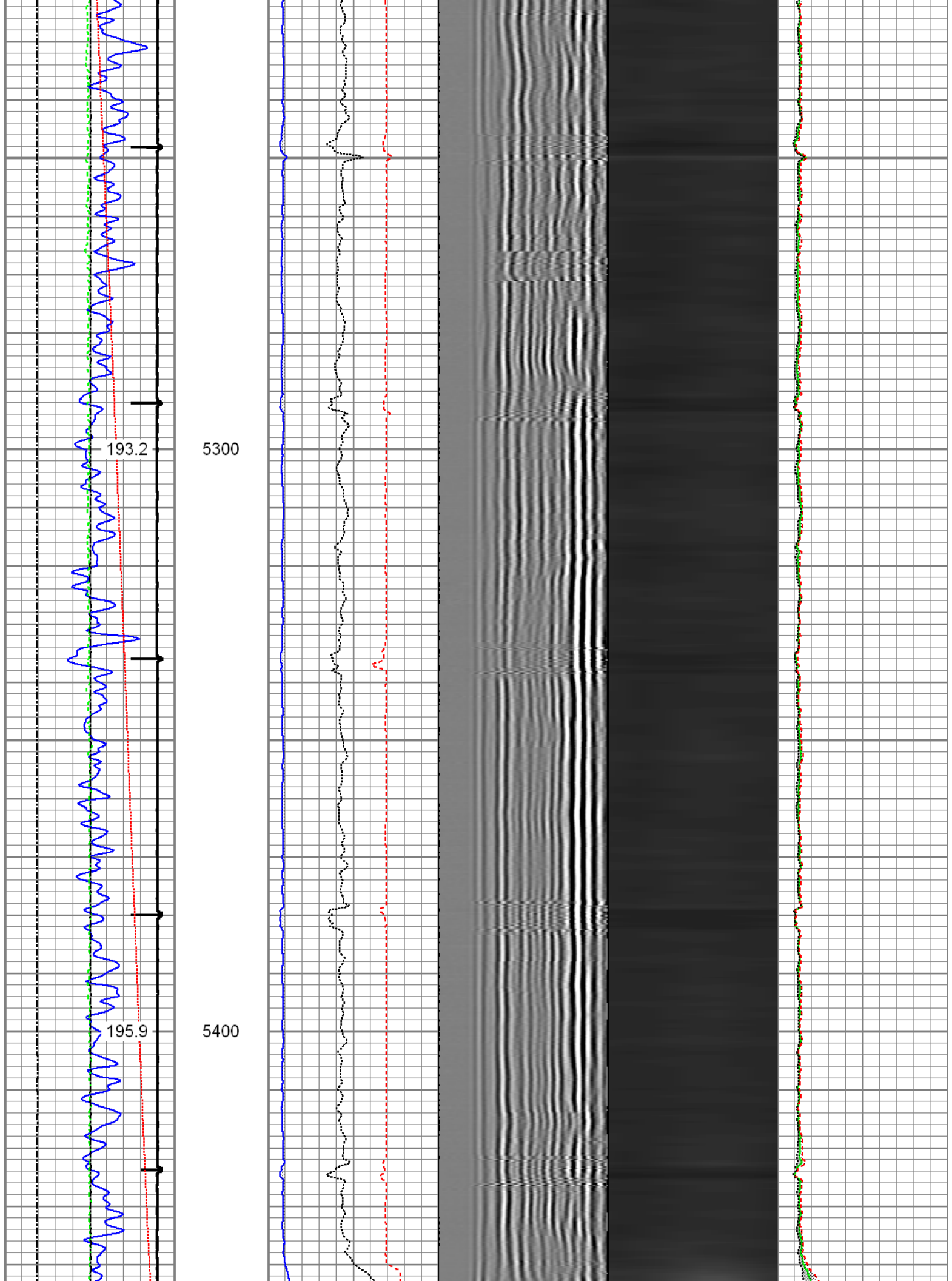


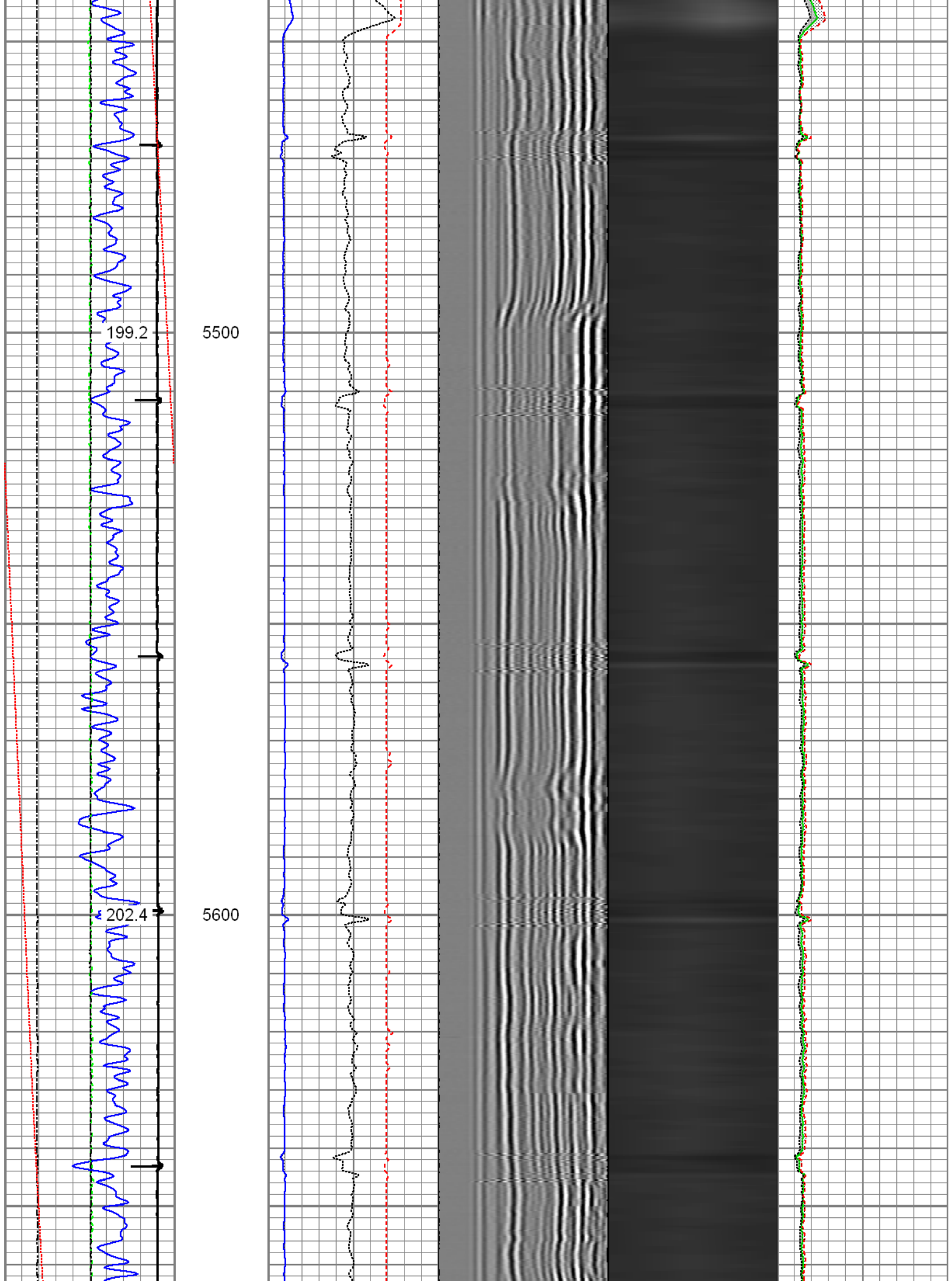


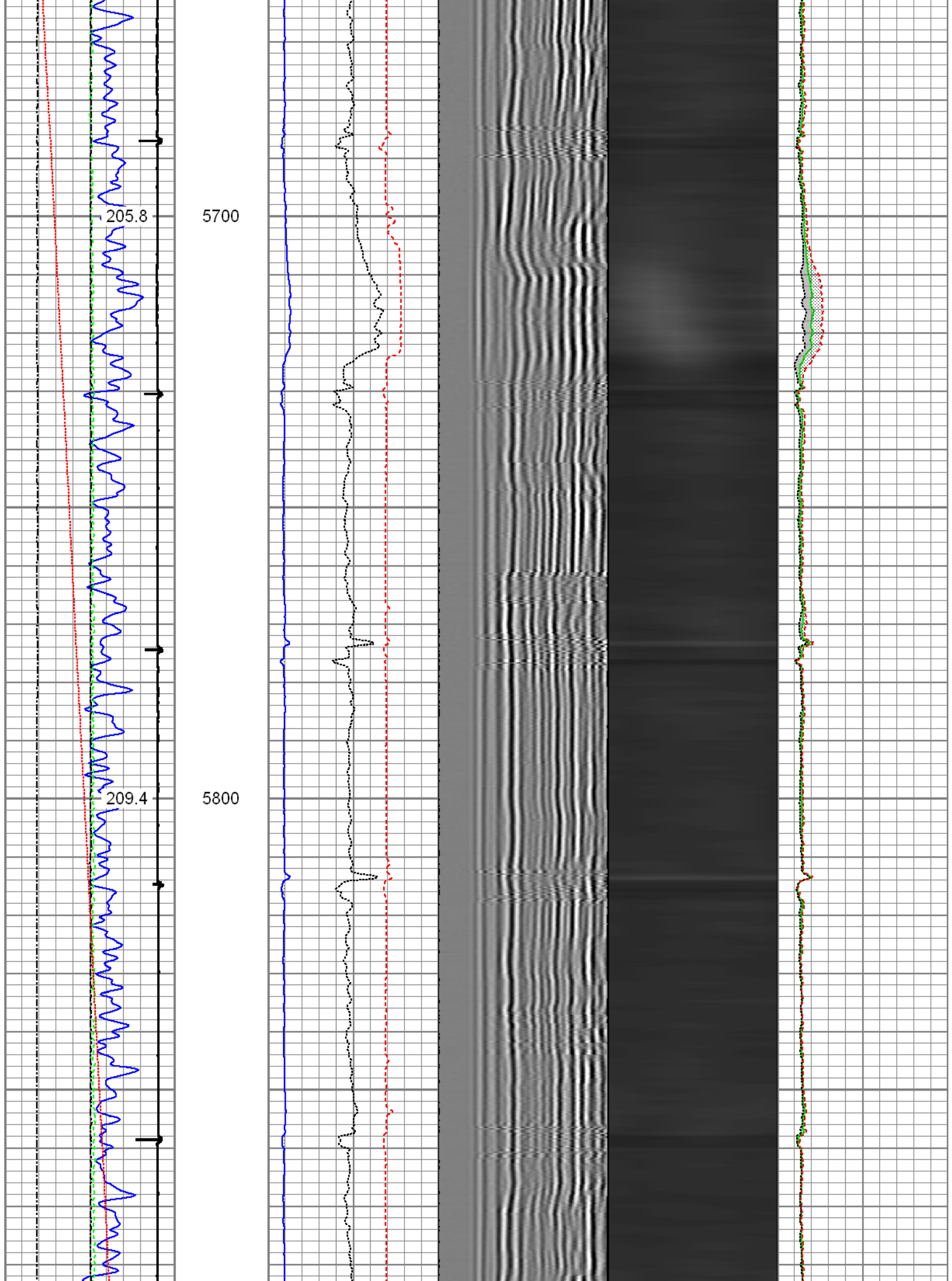


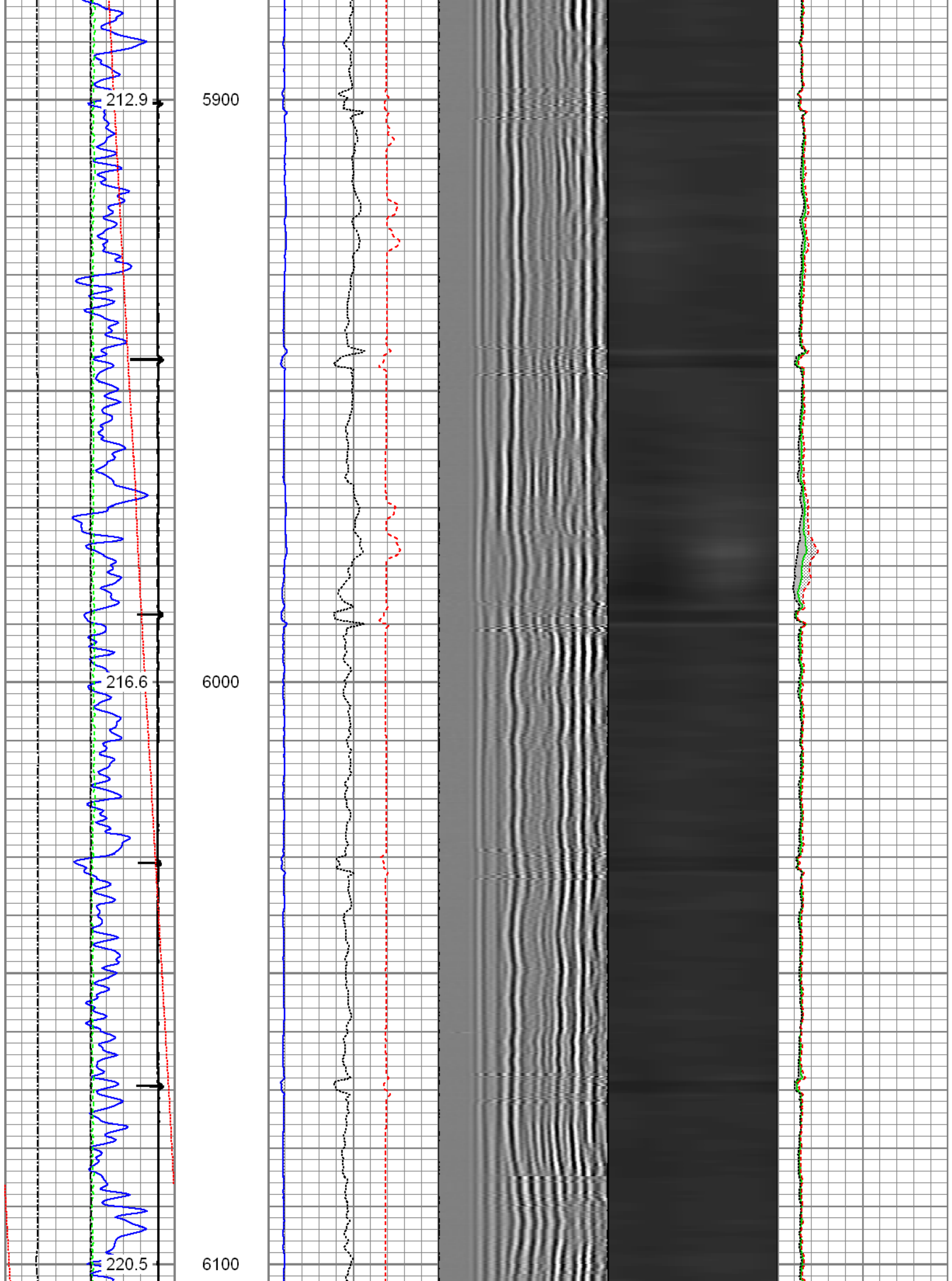


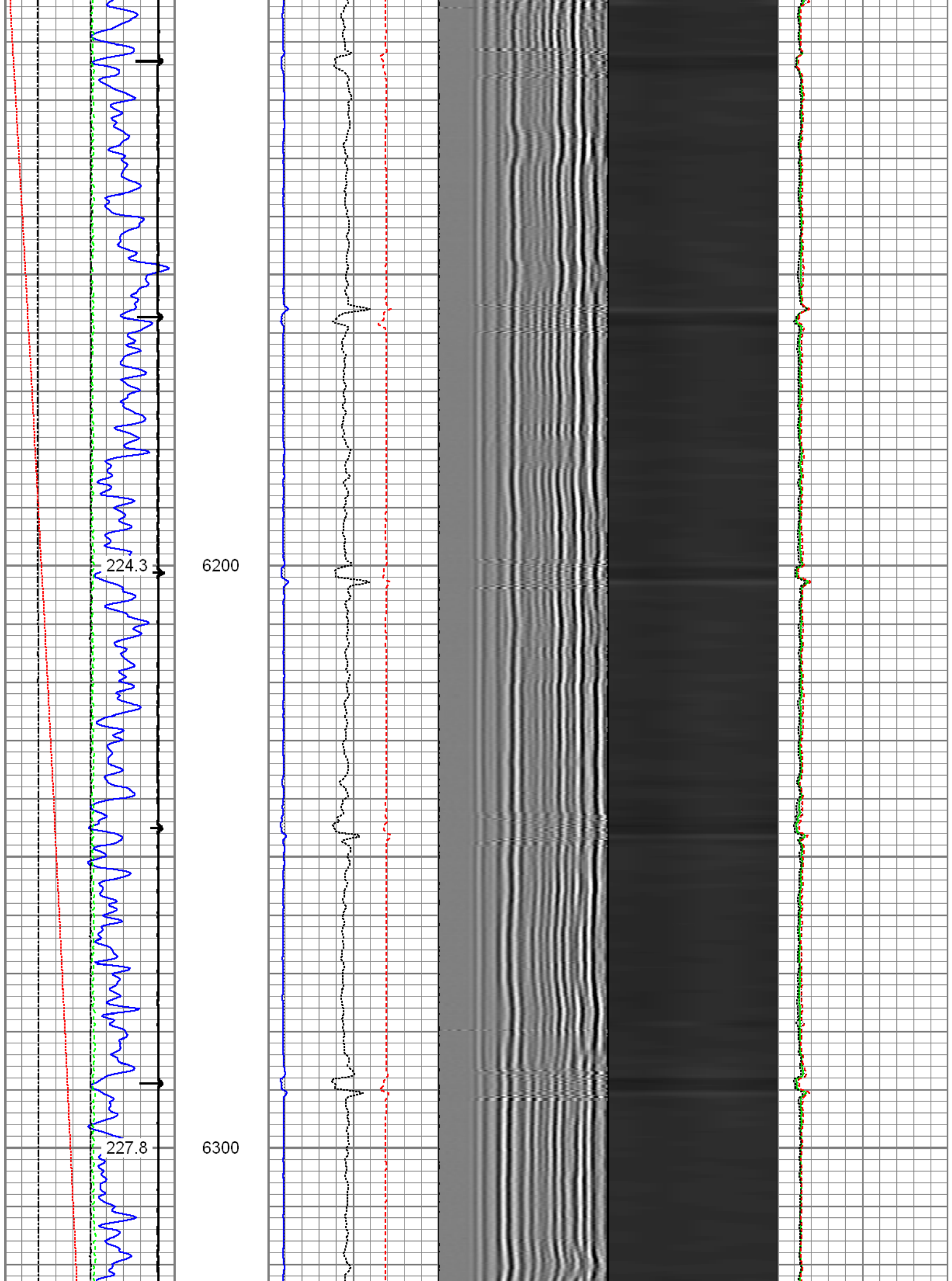


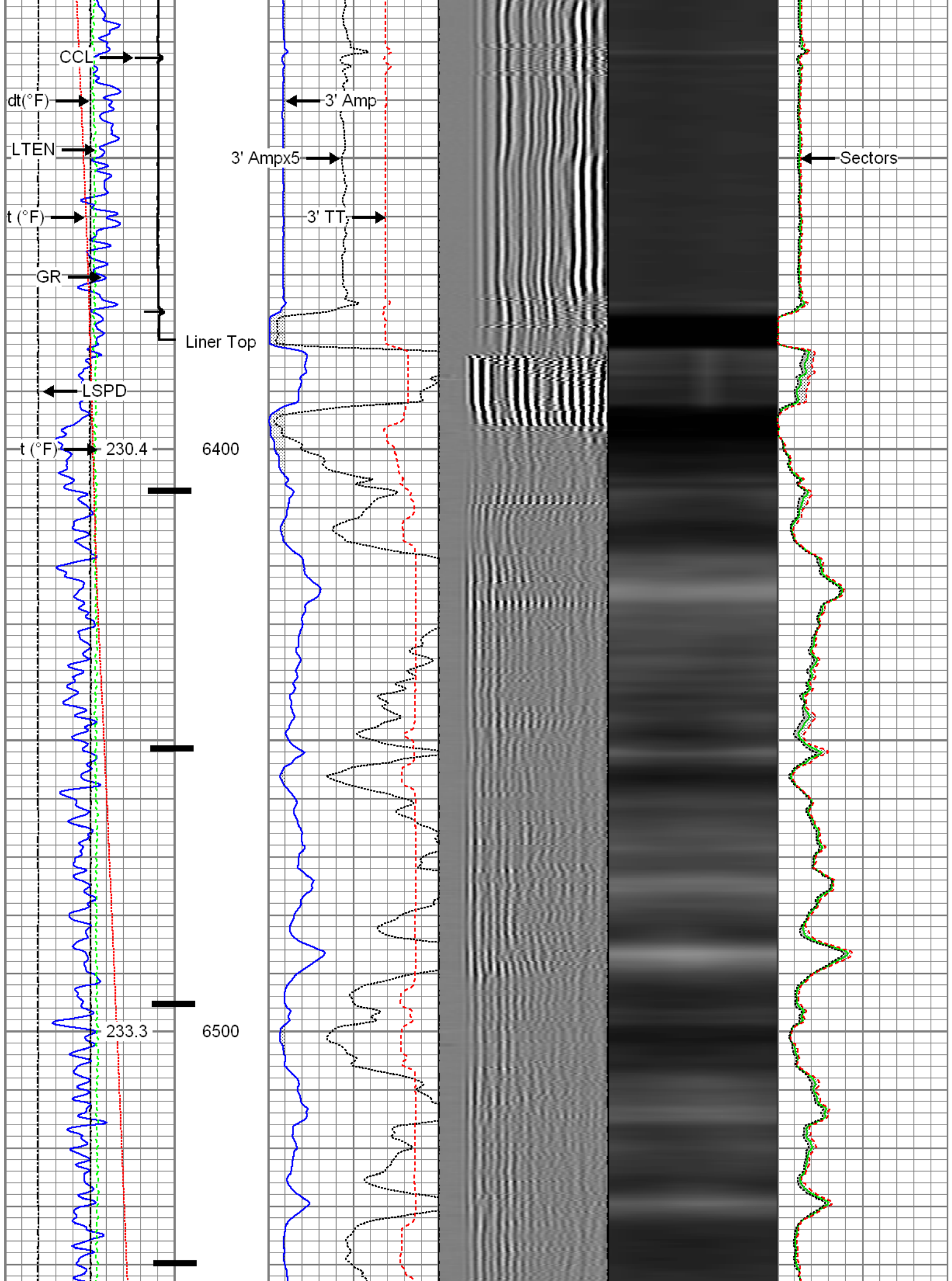


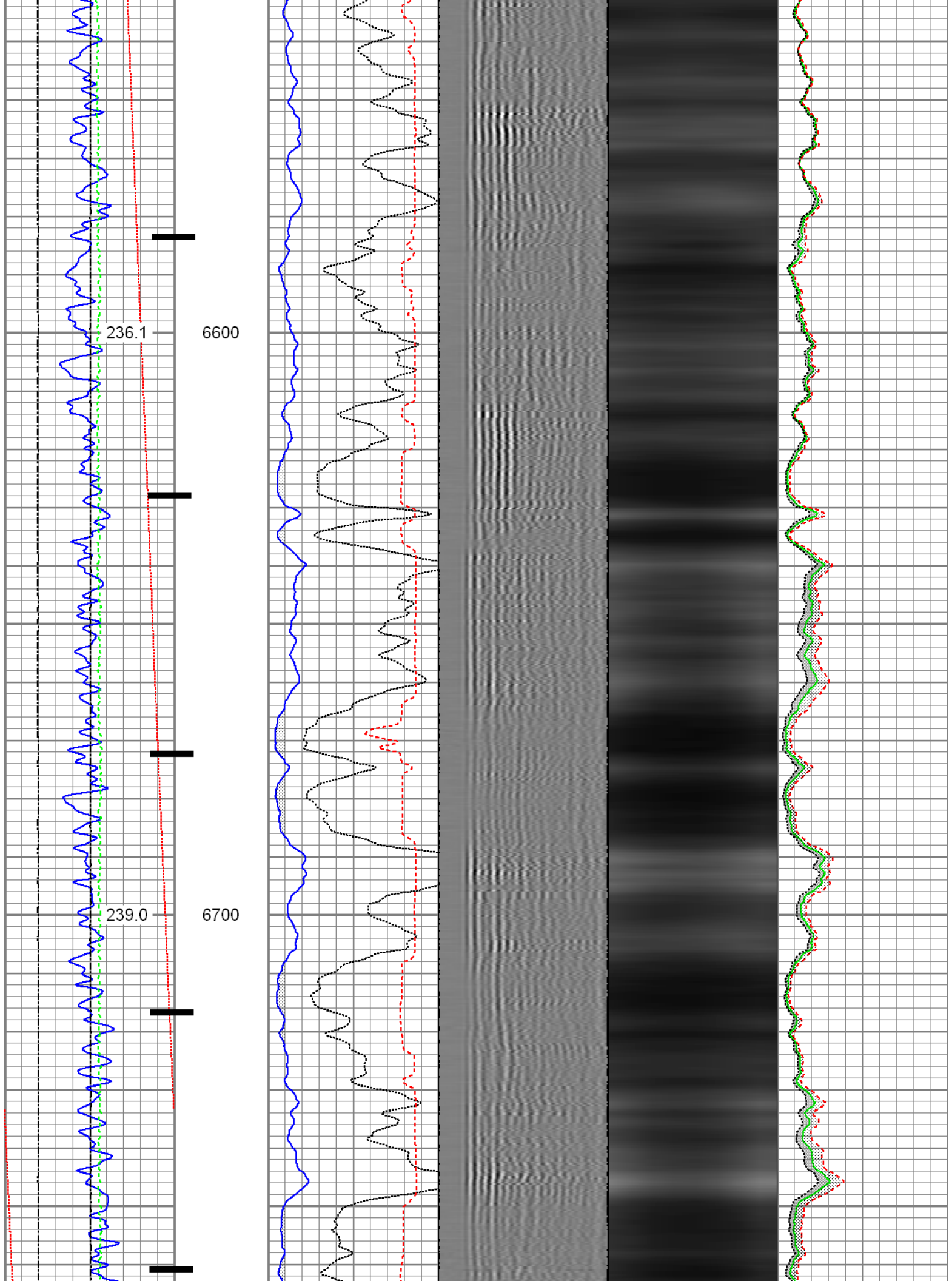


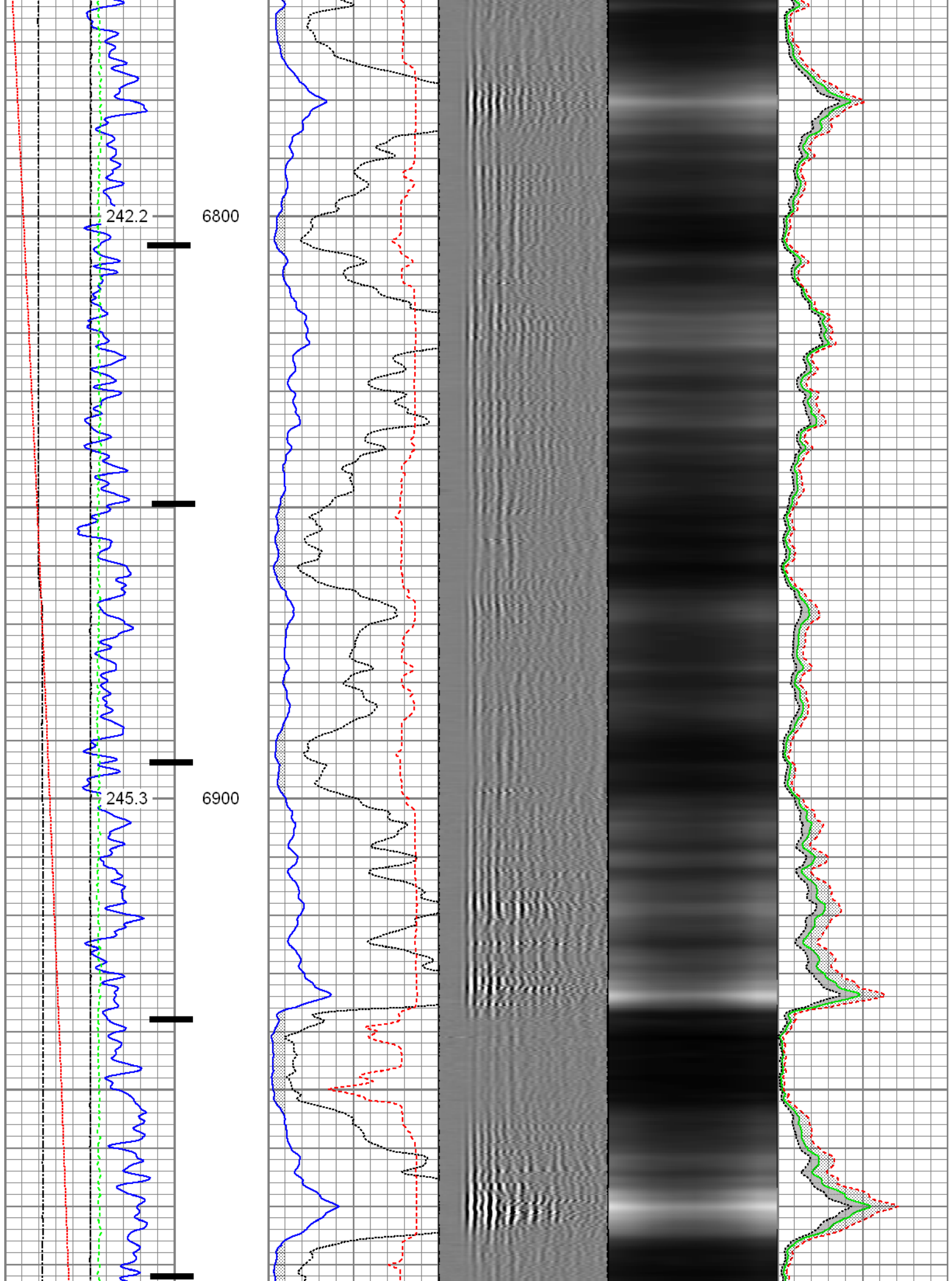


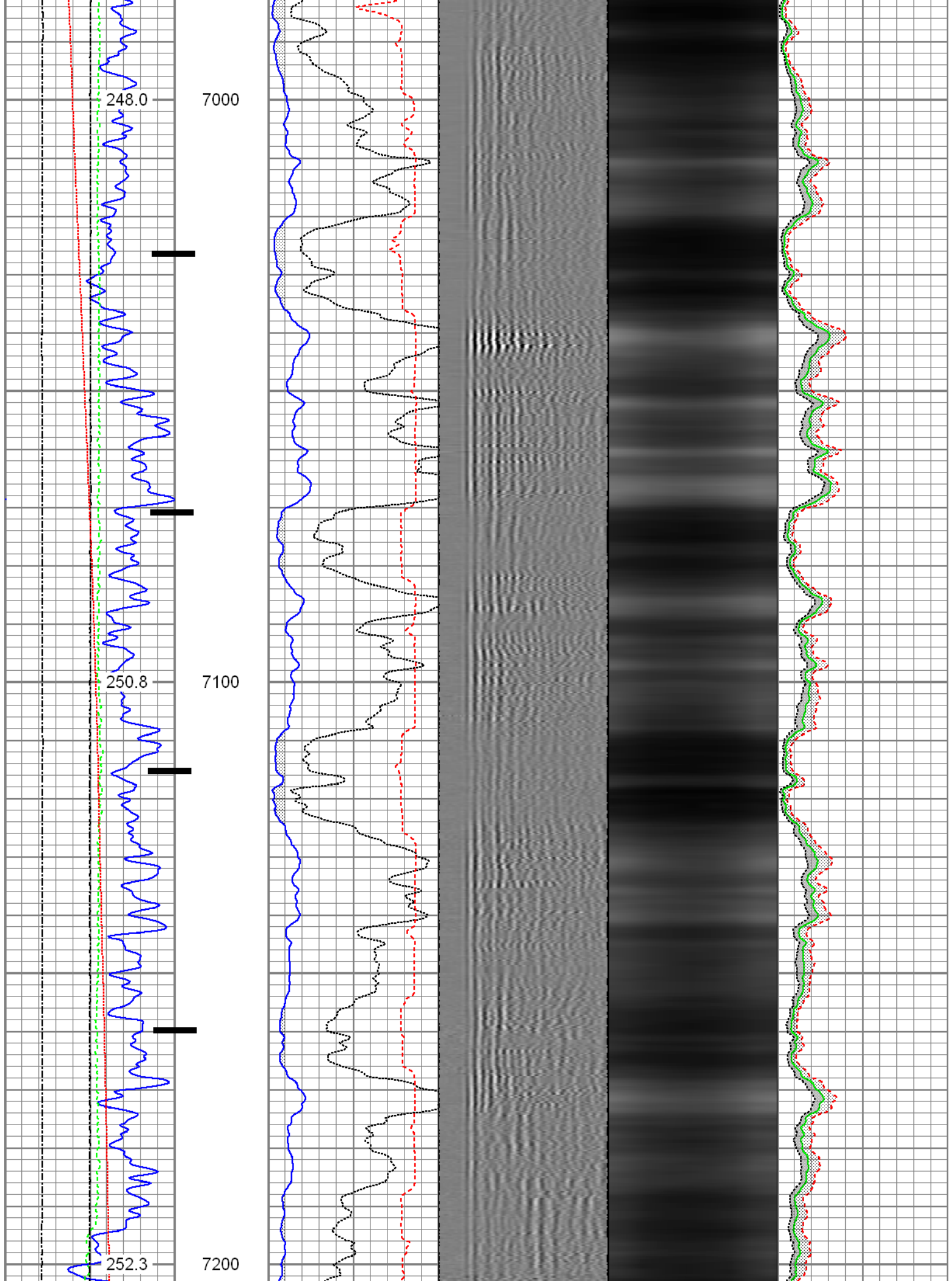


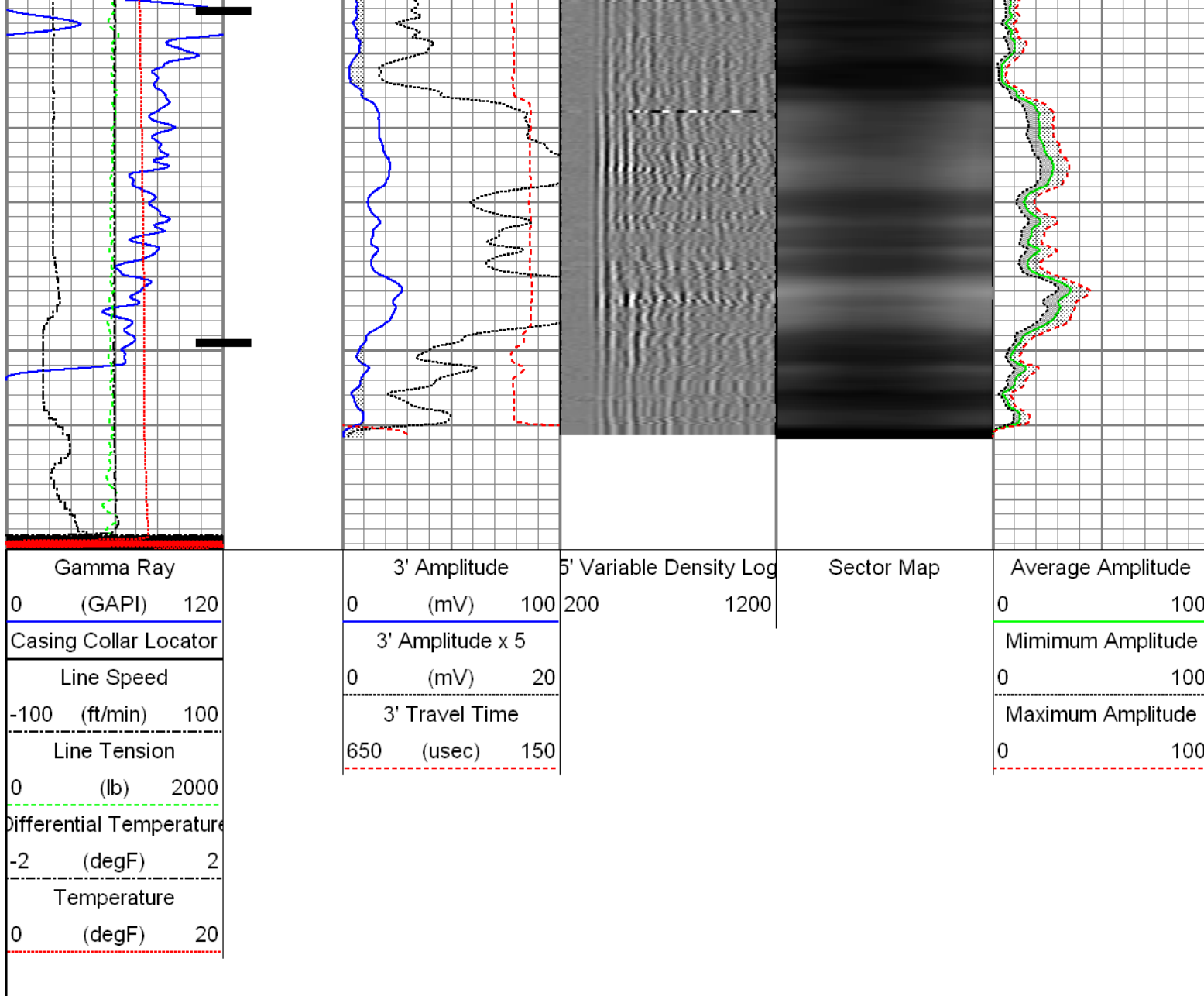





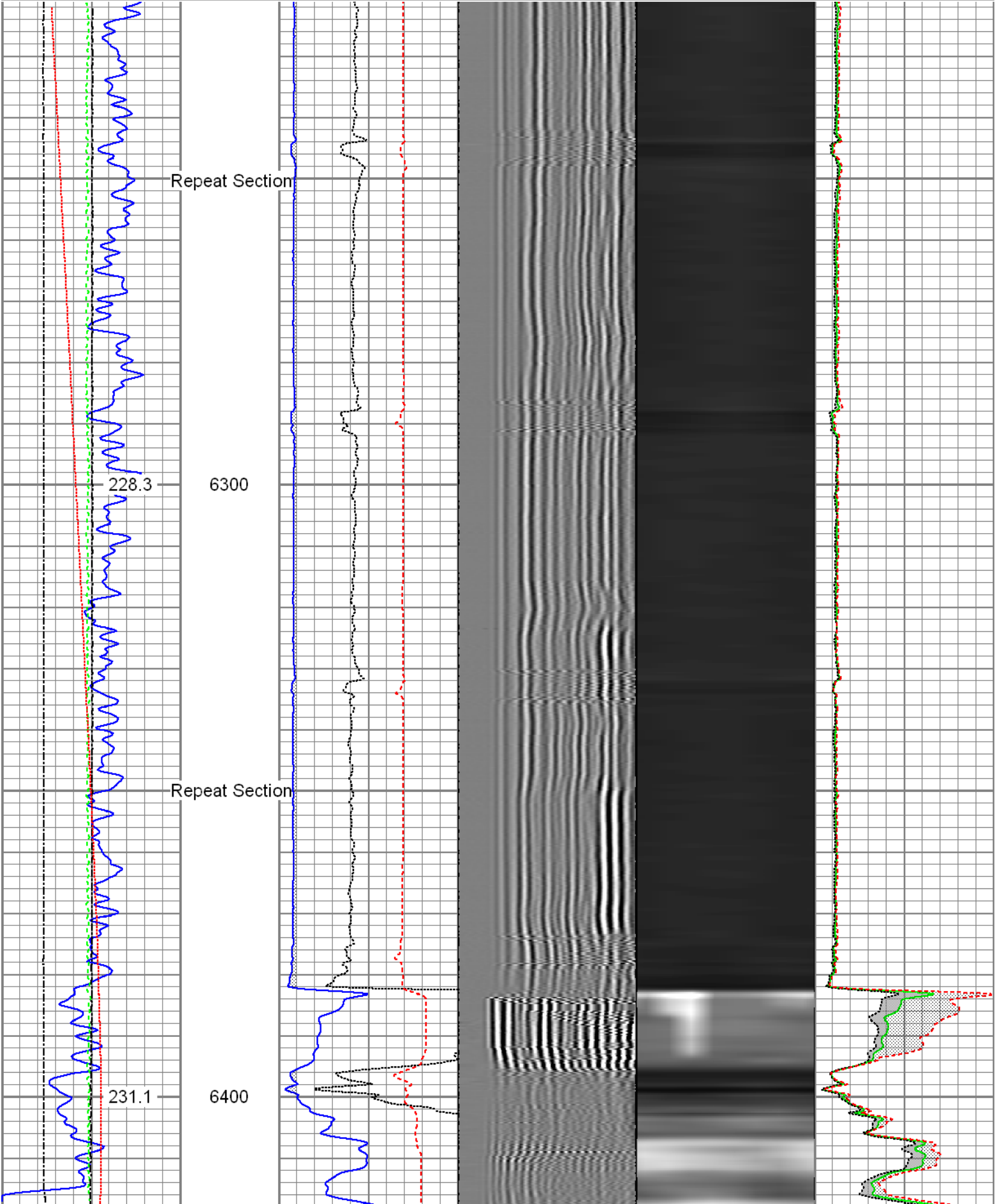




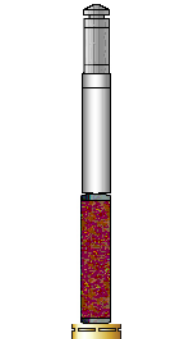
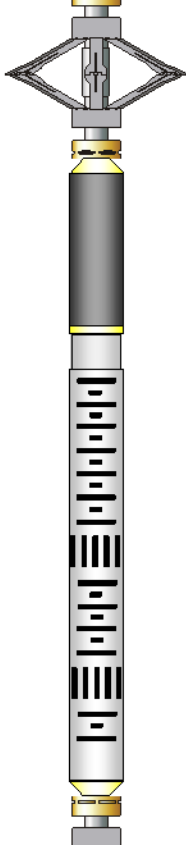
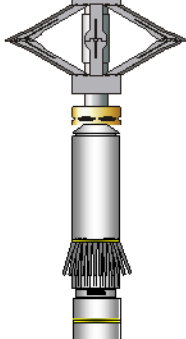


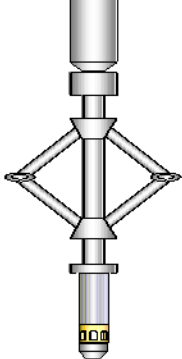


		<h2>Repeat Pass</h2> <p>Recorded with 2800 PSI Surface Induced Pressure</p>			
Database File: c:\warrior\data\anadarko_cream state 2n-21hz\0512340958_anadarko_cream state 2n-21hz_07-21-15 Dataset Pathname: pass3 Presentation Format: rbt4_mit Dataset Creation: Tue Jul 21 09:02:54 2015 by Log 7.0 B1 Charted 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	
Line Speed -100 (ft/min) 100	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100	
Line Tension 0 (lb) 2000	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100	
Differential Temperature -2 (degF) 2					
Temperature 0 (degF) 20					



0 (GAPI) 120	0 (mV) 100 200 1200	0 100
Line Speed	3' Amplitude x 5	Minimum Amplitude
-100 (ft/min) 100	0 (mV) 20	0 100
Line Tension	3' Travel Time	Maximum Amplitude
0 (lb) 2000	650 (usec) 150	0 100
Differential Temperature		
-2 (degF) 2		
Temperature		
0 (degF) 20		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	23.85		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 (219135) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10019072) Production Gamma Ray	1.93	1.69	9.50
			UW_PRC #4 -DSSRAC (081) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
WV3FT	16.46		UW_RBT-UW_RBT_004 (10022773) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS1	16.46					
WVFS2	16.46					
WVFS3	16.46					
WVFS4	16.46					
WVFS5	16.46					
WVFS6	16.46					
WVFS7	16.46					
WVFS8	16.46					
CBLTEMP	16.46					
CBLROT	16.46					
WV5FT	15.46					
MIT	6.45		UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
			UW_MIT-UW_MIT40_027 (218950) 40 Multifinger Imaging Tool	4.54	2.75	61.10

TEMP TSTAMP	0.37 0.00		UW_PRC-UW_PRC_057 (1101) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
			UW_PRT-UW_PRT_016 (10025097) Platinum Resistance Thermometer	1.04	1.69	5.20
			UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
			Dataset: 0512340958_anadarko_cream state 2n-21hz_07-21-15_mit_rbl.db: field/well/run1/pass4 Total Length: 28.09 ft Total Weight: 324.50 lb O.D. 3.13 in			

Calibration Report	
Database File:	c:\warrior\data\anadarko_cream state 2n-21hz\0512340958_anadarko_cream state 2n-21hz_07-21-15_
Dataset Pathname:	pass4
Dataset Creation:	Tue Jul 21 09:16:01 2015 by Log 7.0 B1

Temperature Calibration Report					
Serial Number:		10025097			
Tool Model:		UW_PRT_016			
Performed:		Wed Feb 11 13:44:44 2015			
Point #	Reading			Reference	
1	13053.00	cps		68.00	degF
2	18014.00	cps		104.00	degF
3	29668.00	cps		176.00	degF
4	41181.00	cps		248.00	degF
5	52983.00	cps		320.00	degF
6	58931.00	cps		356.00	degF
7		cps			degF
8		cps			degF
9		cps			degF
10		cps			degF

Multi-finger Imaging Tool Calibration Report			
Serial Number:		218950	
Number of Fingers:		40	
Tool Model:		UW_MIT40_027	
Inclinometer Calibration Report			
Performed:		Fri, Oct, 10 10:41:51 2008	
Calibration Angle:		45	
		Inc X	Inc Y
Vertical:		1996	1975
Finger 1 up:		2238	2226
Finger 31 up:		1760	2216
Finger 21 up:		1769	1745
Finger 11 up:		2250	1738
Sensitivity ratio:		1.00023	
X-axis angle:		314.283	
Deviation const.:		339.139	

Finger Calibration Report	
Performed:	Tue Jul 21 08:33:12 2015

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1435	263.0	1698	292.0	1990	302.0	2292
Finger 02:	1505	243.0	1748	259.0	2007	264.0	2271
Finger 03:	1422	267.0	1689	293.0	1982	298.0	2280
Finger 04:	1441	270.0	1711	292.0	2003	292.0	2295
Finger 05:	1481	262.0	1743	280.0	2023	279.0	2302
Finger 06:	1410	274.0	1684	296.0	1980	300.0	2280
Finger 07:	1433	274.0	1707	292.0	1999	295.0	2294
Finger 08:	1430	271.0	1701	290.0	1991	288.0	2279
Finger 09:	1423	276.0	1699	297.0	1996	296.0	2292
Finger 10:	1419	268.0	1687	286.0	1973	284.0	2257
Finger 11:	1425	280.0	1705	295.0	2000	294.0	2294
Finger 12:	1382	281.0	1663	299.0	1962	300.0	2262
Finger 13:	1481	264.0	1745	274.0	2019	273.0	2292
Finger 14:	1421	268.0	1689	287.0	1976	290.0	2266
Finger 15:	1418	284.0	1702	295.0	1997	299.0	2296
Finger 16:	1422	277.0	1699	292.0	1991	295.0	2286
Finger 17:	1433	287.0	1720	300.0	2020	304.0	2324
Finger 18:	1374	275.0	1649	286.0	1935	293.0	2228
Finger 19:	1426	285.0	1711	291.0	2002	297.0	2299
Finger 20:	1436	287.0	1723	293.0	2016	303.0	2319
Finger 21:	1388	293.0	1681	305.0	1986	315.0	2301
Finger 22:	1412	272.0	1684	283.0	1967	291.0	2258
Finger 23:	1413	280.0	1693	288.0	1981	299.0	2280
Finger 24:	1446	282.0	1728	288.0	2016	293.0	2309
Finger 25:	1373	274.0	1647	285.0	1932	296.0	2228
Finger 26:	1350	280.0	1630	290.0	1920	306.0	2226
Finger 27:	1446	273.0	1719	285.0	2004	296.0	2300
Finger 28:	1432	279.0	1711	293.0	2004	306.0	2310
Finger 29:	1482	263.0	1745	275.0	2020	287.0	2307
Finger 30:	1391	277.0	1668	292.0	1960	311.0	2271
Finger 31:	1420	280.0	1700	297.0	1997	311.0	2308
Finger 32:	1479	264.0	1743	276.0	2019	288.0	2307
Finger 33:	1434	276.0	1710	299.0	2009	313.0	2322
Finger 34:	1441	270.0	1711	290.0	2001	310.0	2311
Finger 35:	1489	250.0	1739	267.0	2006	279.0	2285
Finger 36:	1472	259.0	1731	281.0	2012	295.0	2307
Finger 37:	1447	266.0	1713	291.0	2004	306.0	2310
Finger 38:	1518	238.0	1756	260.0	2016	271.0	2287
Finger 39:	1442	262.0	1704	284.0	1988	290.0	2278
Finger 40:	1410	271.0	1681	299.0	1980	308.0	2288

Segmented Cement Bond Log Calibration Report							
Serial Number:				10022773			
Tool Model:				UW_RBT_004			
Calibration Casing Diameter:				7.000	in		
Calibration Depth:				139.574	ft		

Master Calibration, performed Tue Jul 21 08:41:45 2015:							
	Raw (v)		Calibrated (mv)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
3FT	0.002	0.747	0.800	62.165	82.386	0.599	
5FT	-0.001	0.760	0.800	62.165	80.662	0.898	
S1	0.002	0.745	0.000	100.000	134.624	-0.329	
S2	0.001	0.759	0.000	100.000	131.908	-0.161	
S3	0.002	0.730	0.000	100.000	137.390	-0.320	
S4	0.001	0.694	0.000	100.000	144.307	-0.194	
S5	0.002	0.692	0.000	100.000	144.971	-0.354	
S6	0.001	0.689	0.000	100.000	145.367	-0.177	

S7	0.002	0.719	0.000	100.000	139.462	-0.238
S8	0.002	0.743	0.000	100.000	134.946	-0.226

Gamma Ray Calibration Report						
Serial Number:	10019072					
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 & Gas Onshore, L.P.
	Well	Cream State 2N - 21HZ
	Field	Wattenberg
	County	Weld
	State	Colorado