

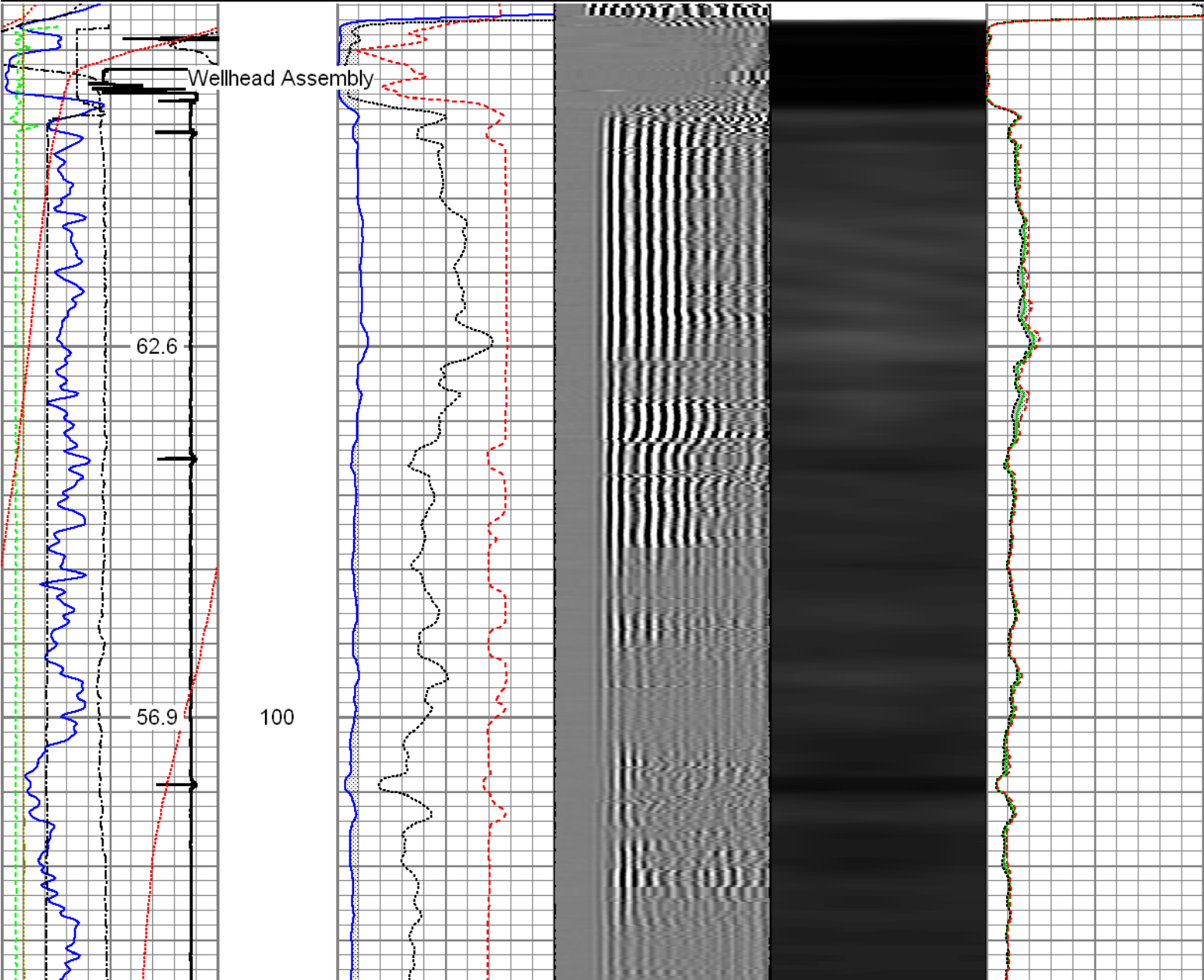


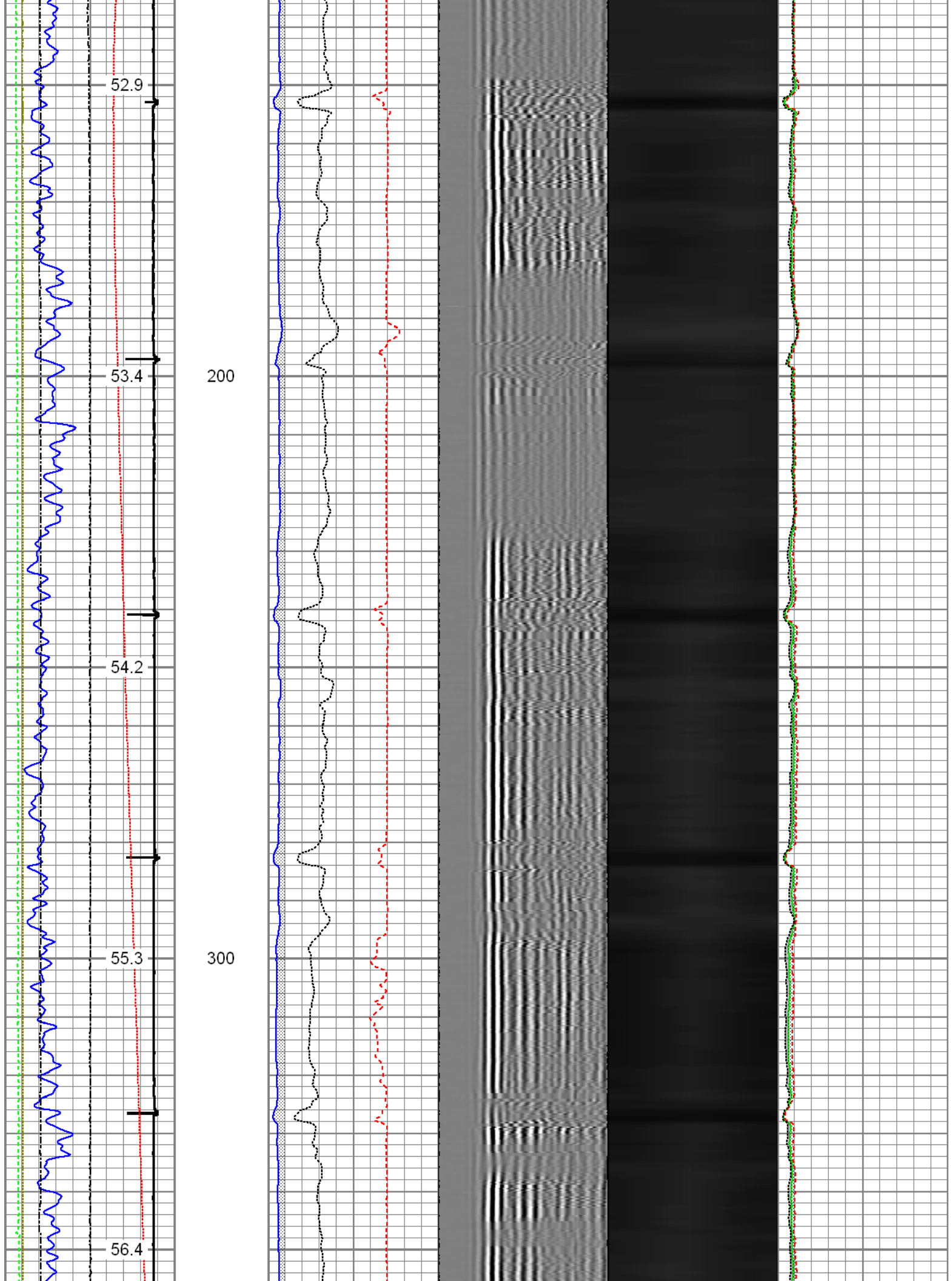
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Depth referenced to liner top at 7210 FT Adjusted log -3 FT to correlate with liner top Log recorded with 2800 PSI surface induced pressure No debris found on logging tools upon completion of run  Thank you for choosing FMC Technologies Completion Services, Inc.!!

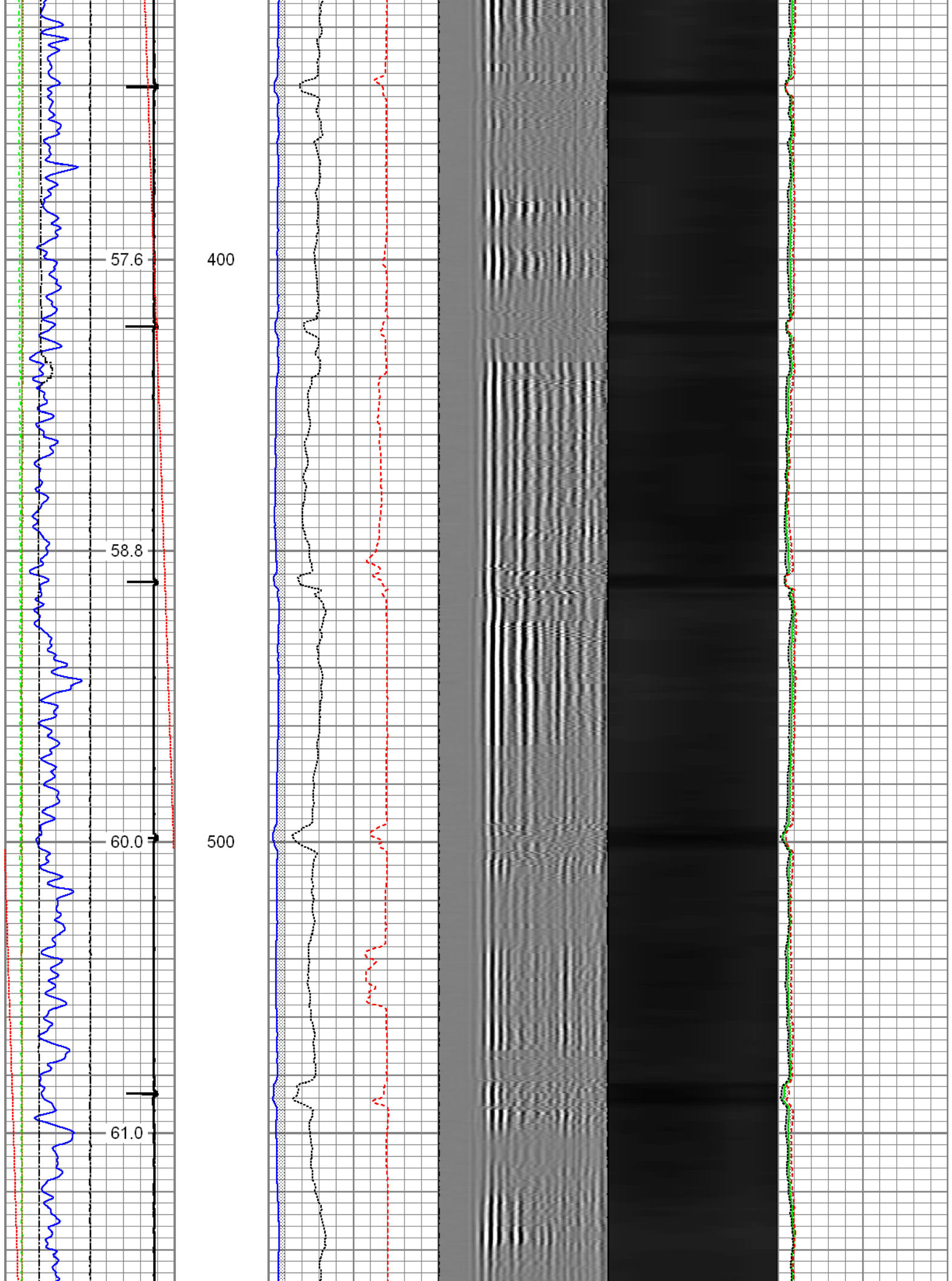


Database File: 0512336463\_anadarko\_badger state 32c-3hz\_08-12-15\_mit\_rbl.db  
Dataset Pathname: pass5  
Presentation Format: rbt4\_mit  
Dataset Creation: Wed Aug 12 10:07:52 2015 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

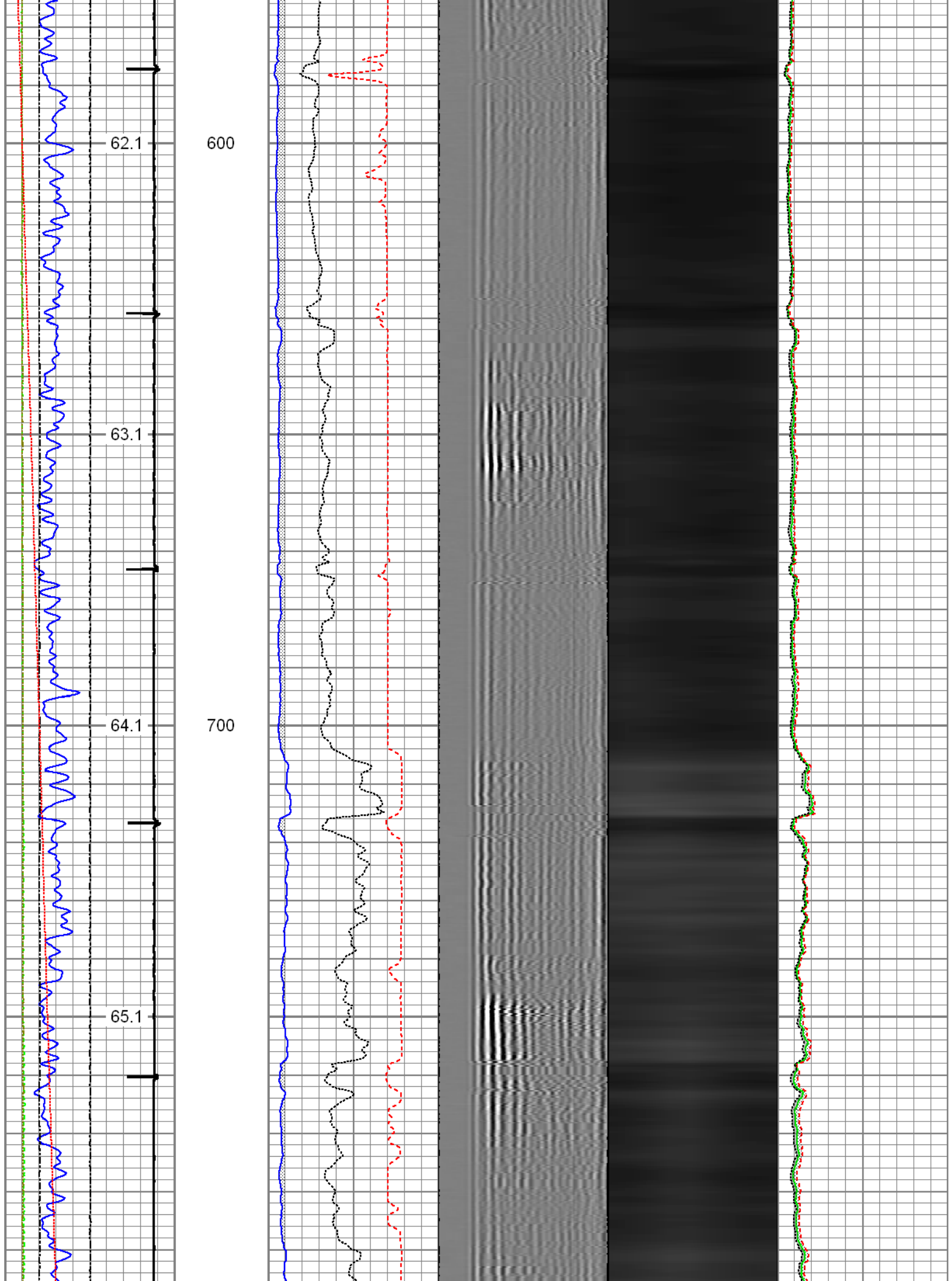
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				
Differential Temperature				
-2 (degF) 2				
-10 Deviation (°) 90				
Temperature				
0 (degF) 20				

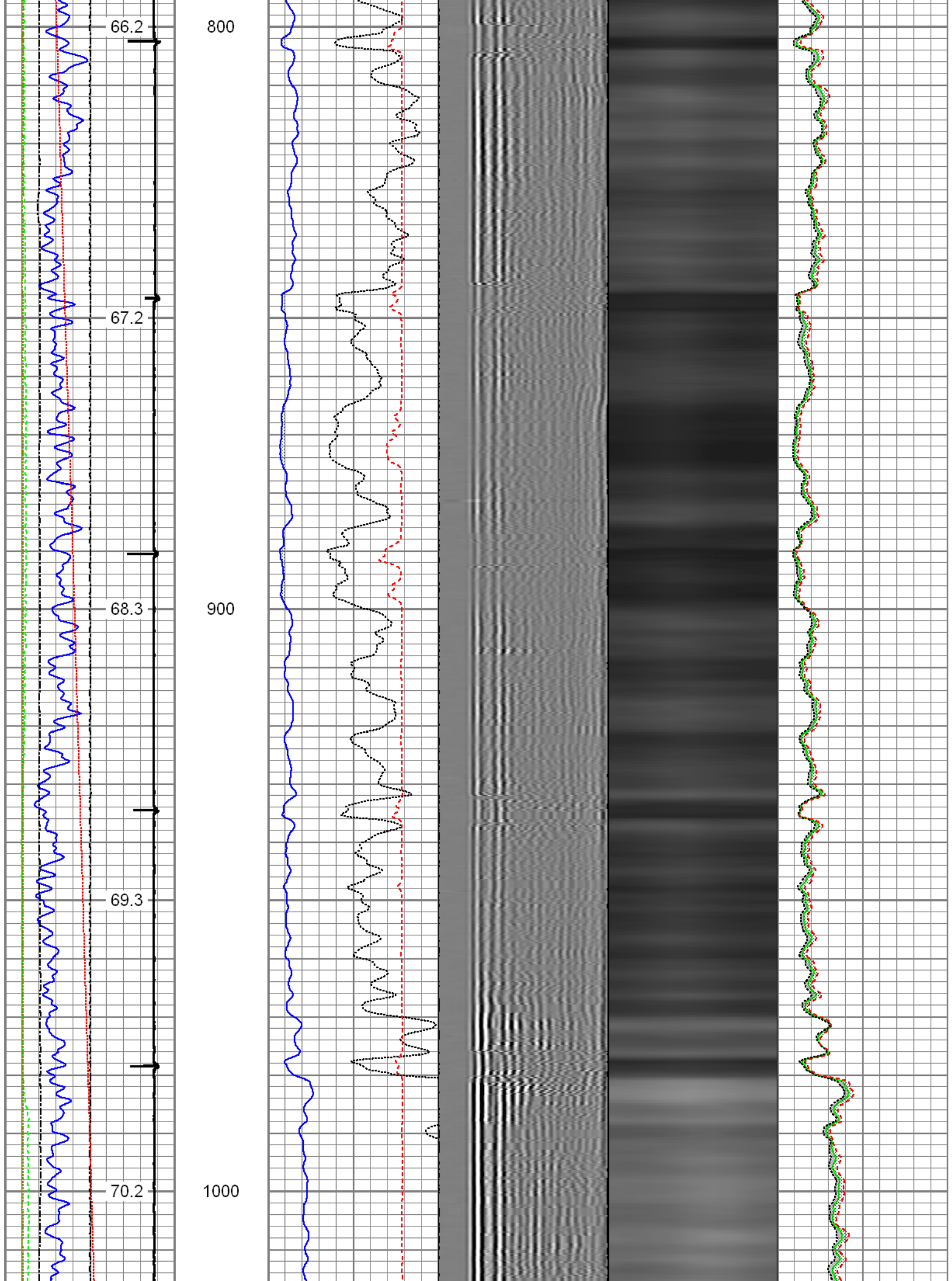


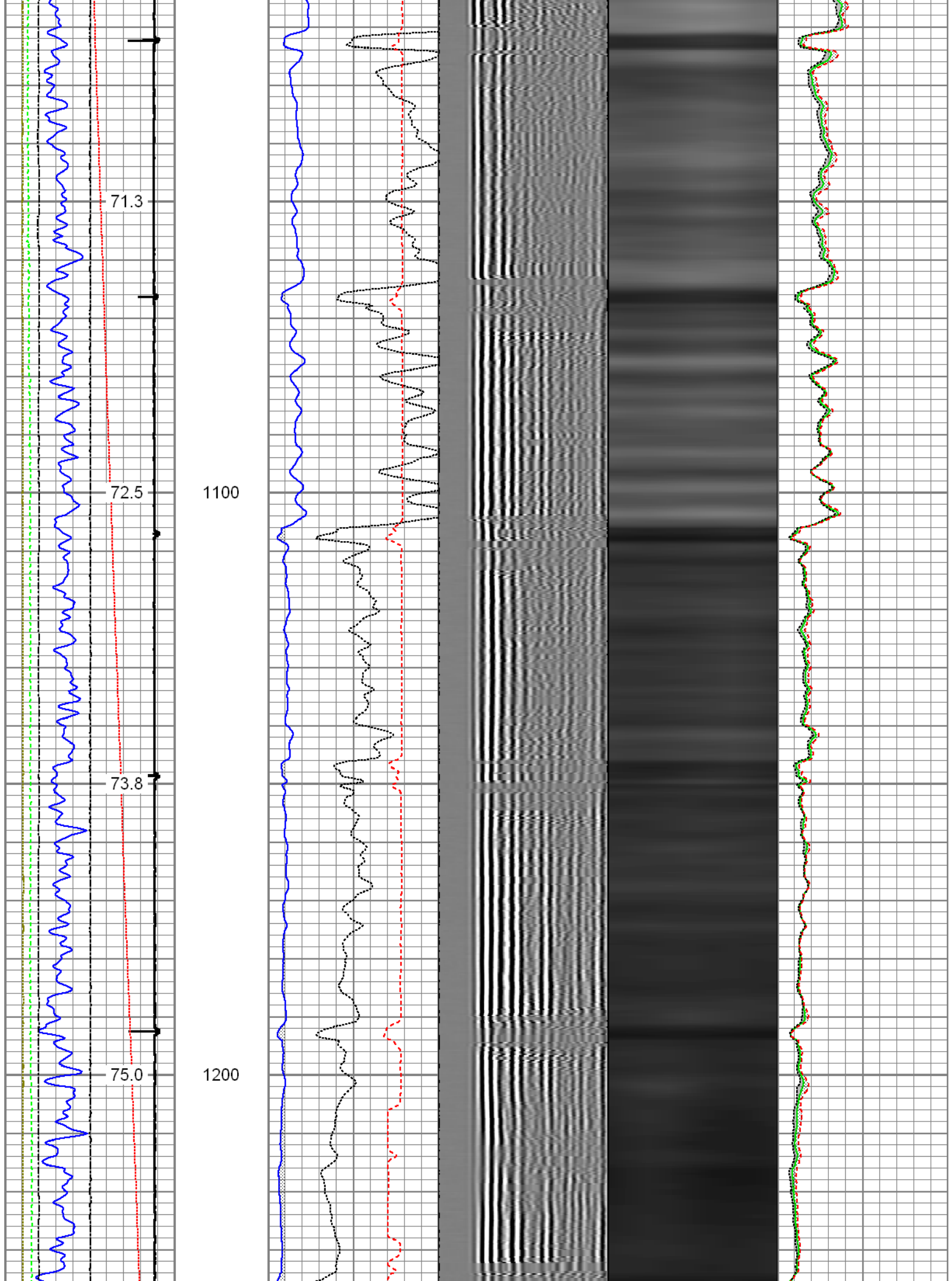


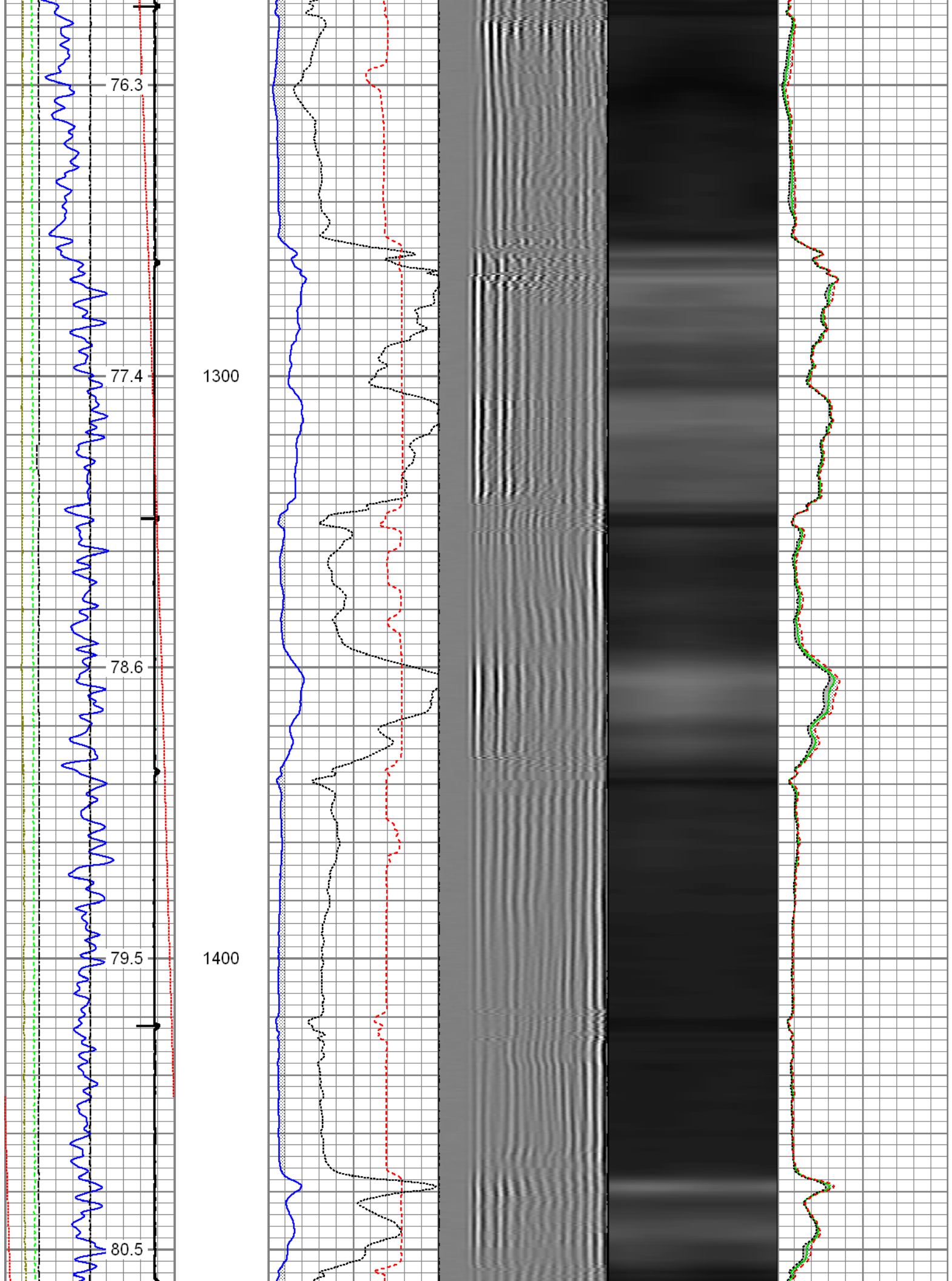




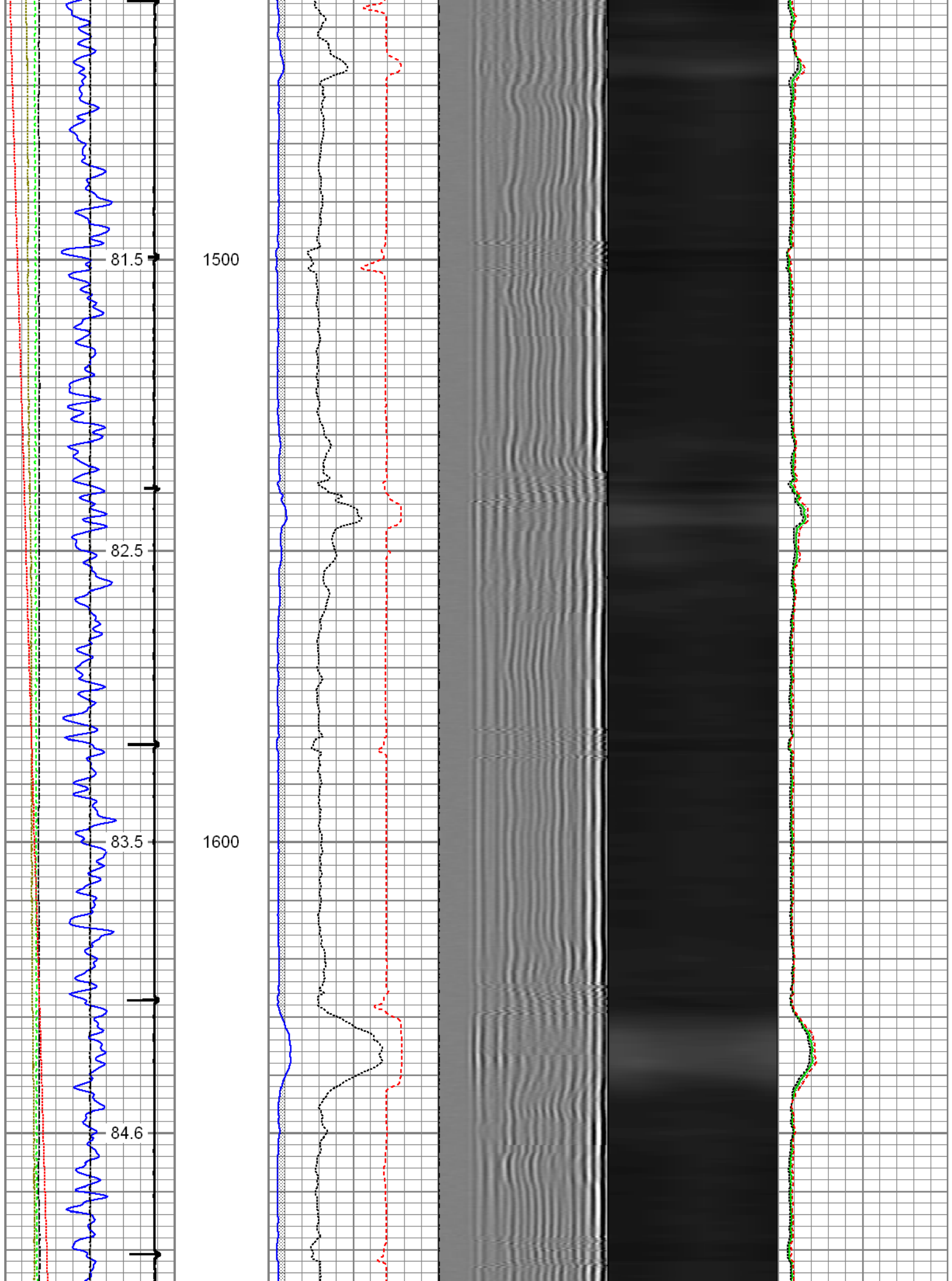




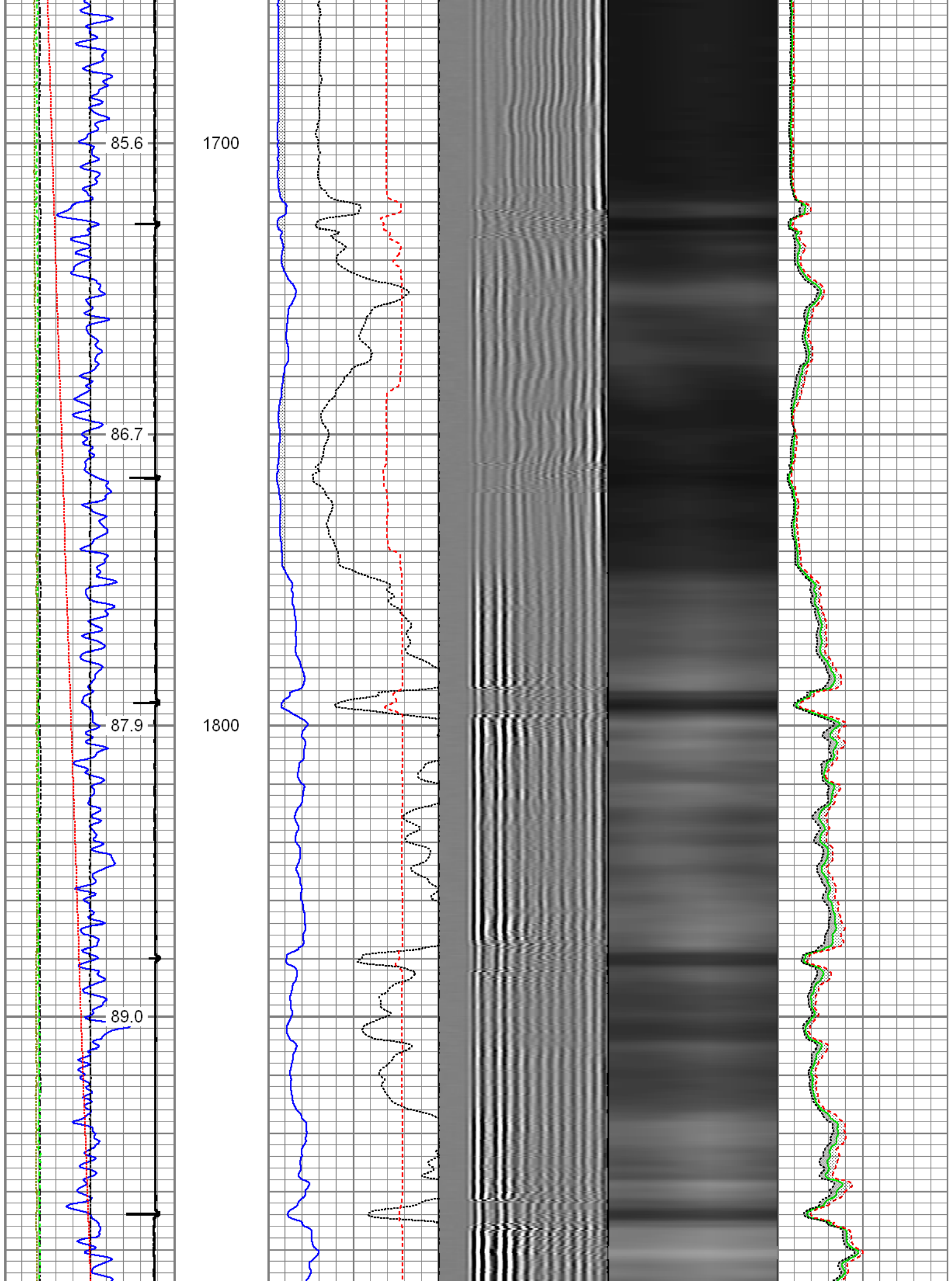


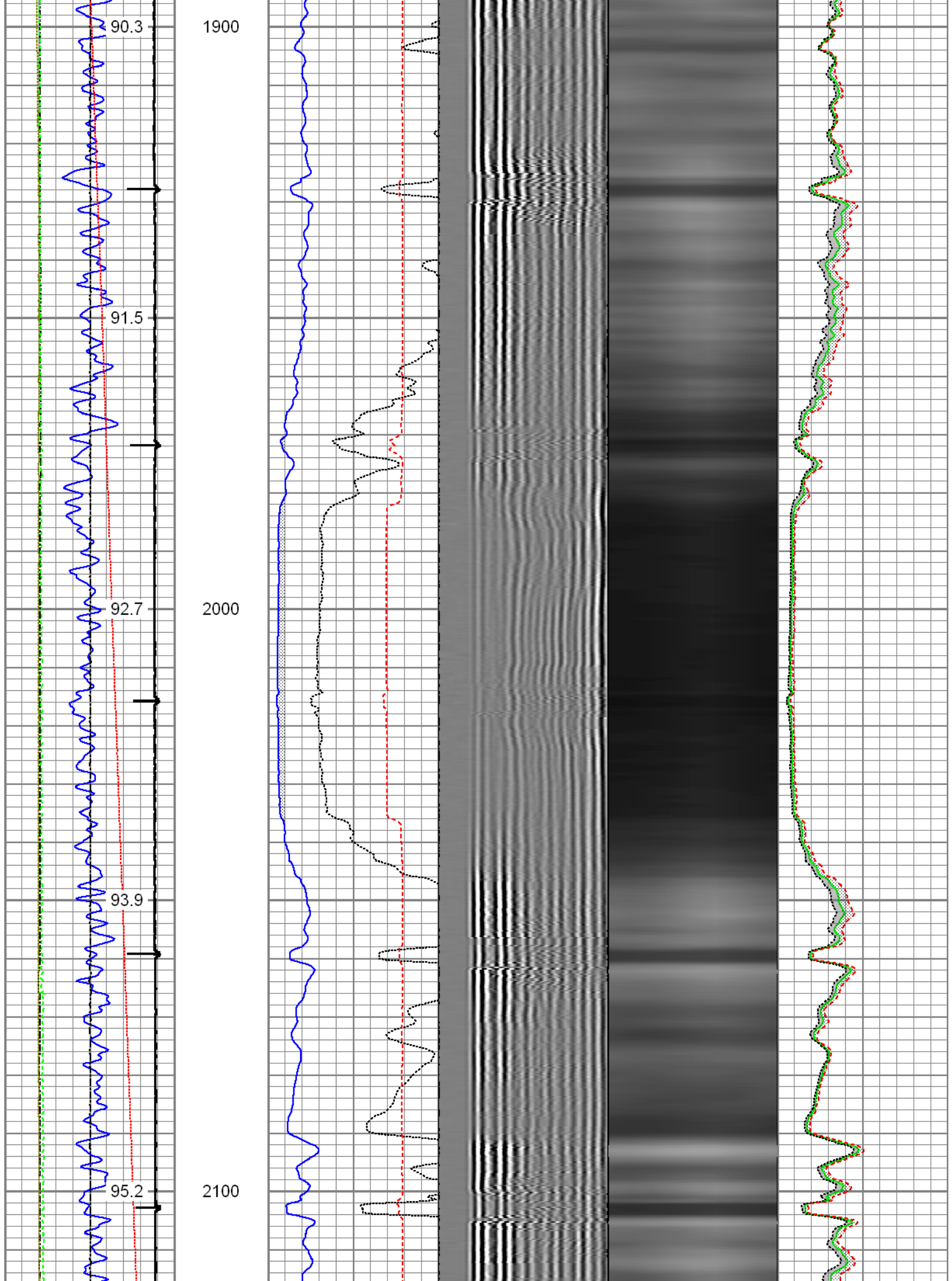


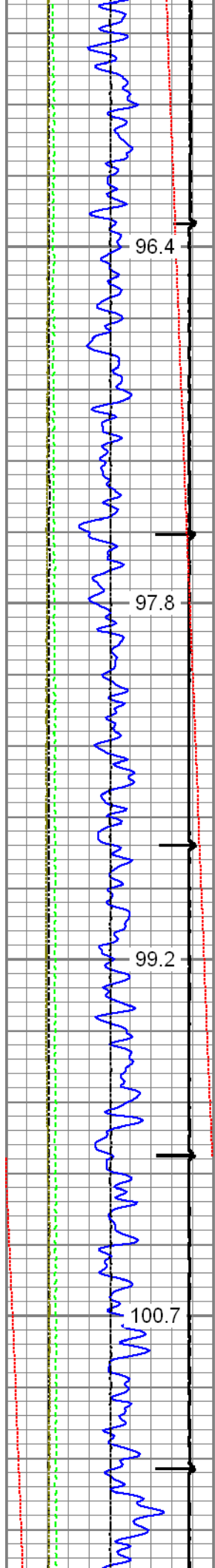






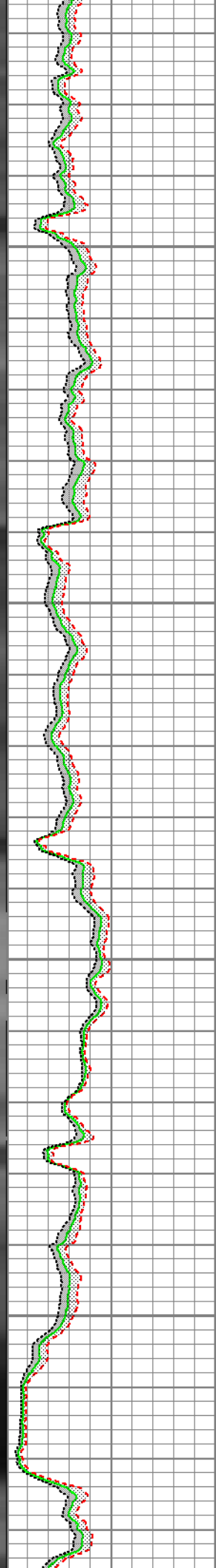
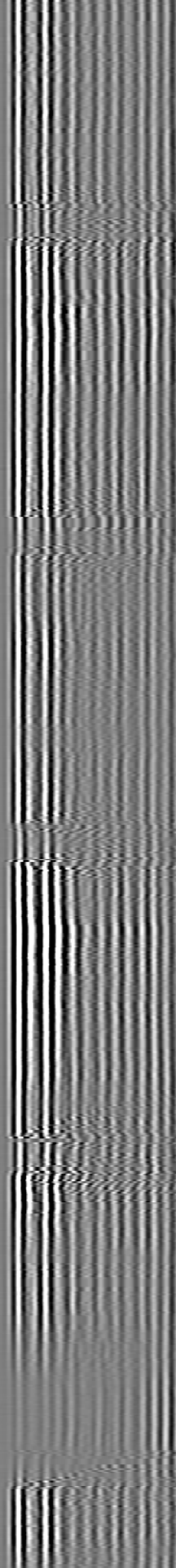
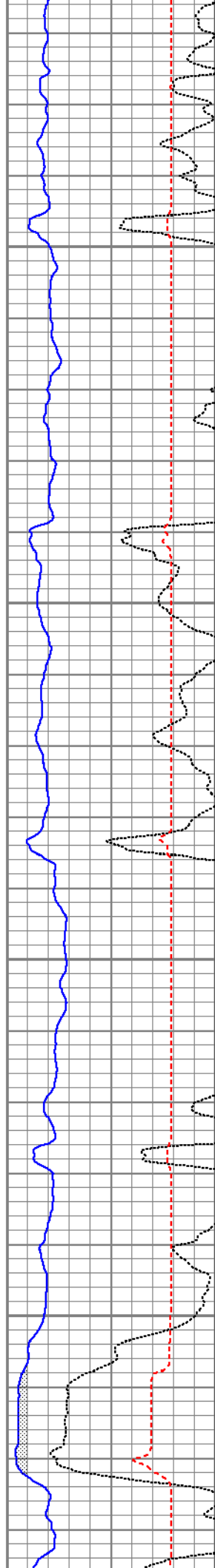


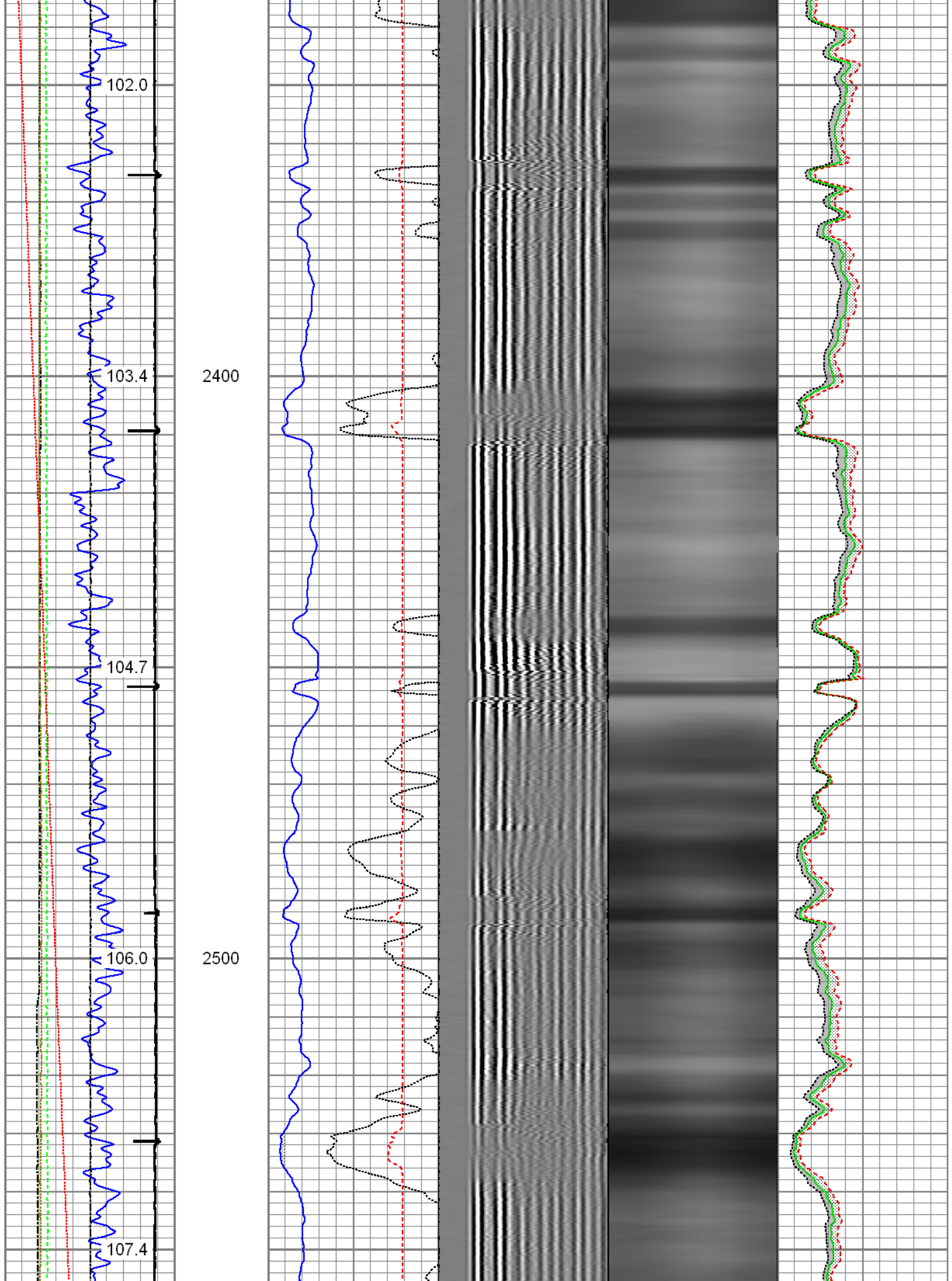




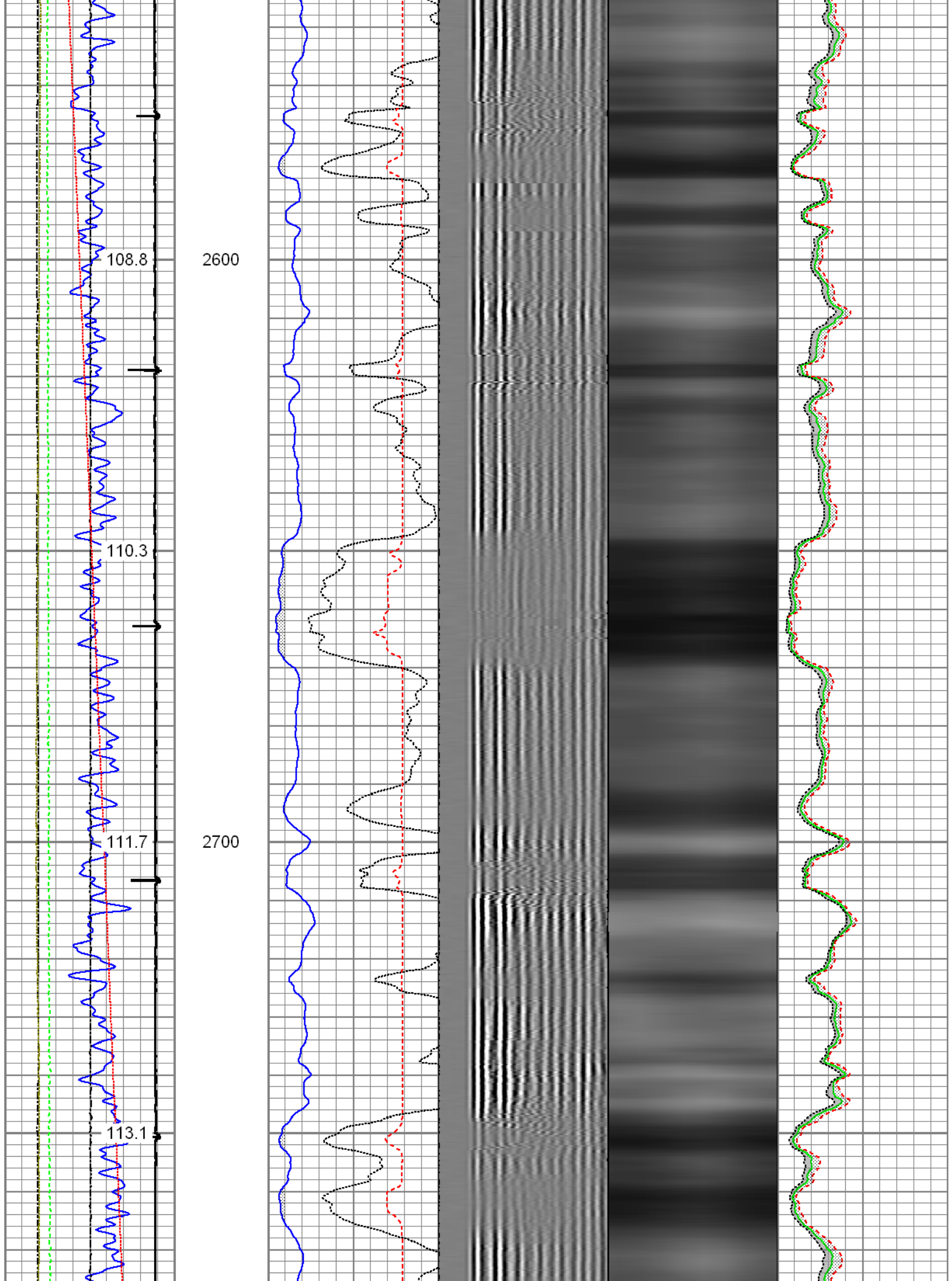
2200

2300

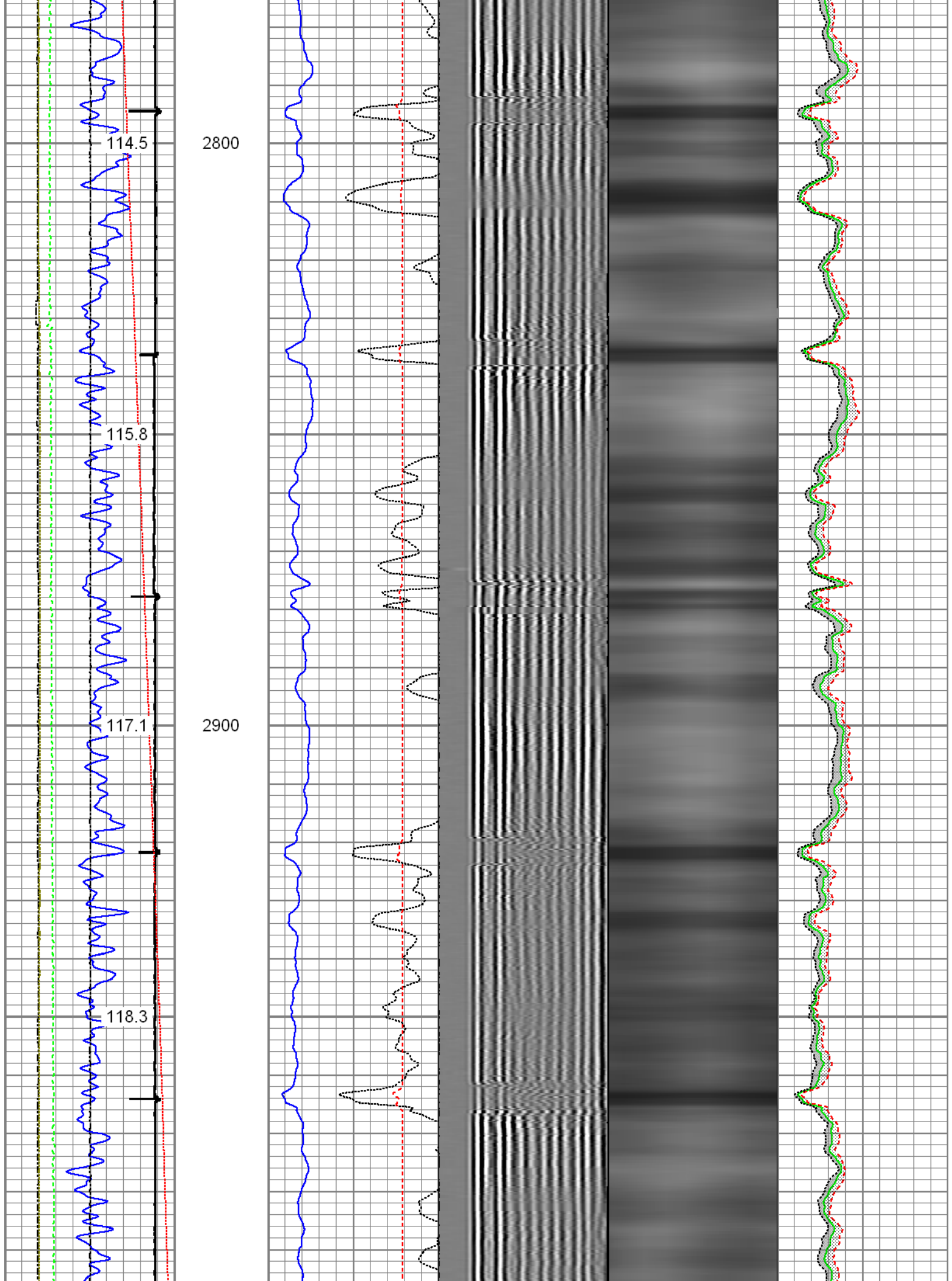


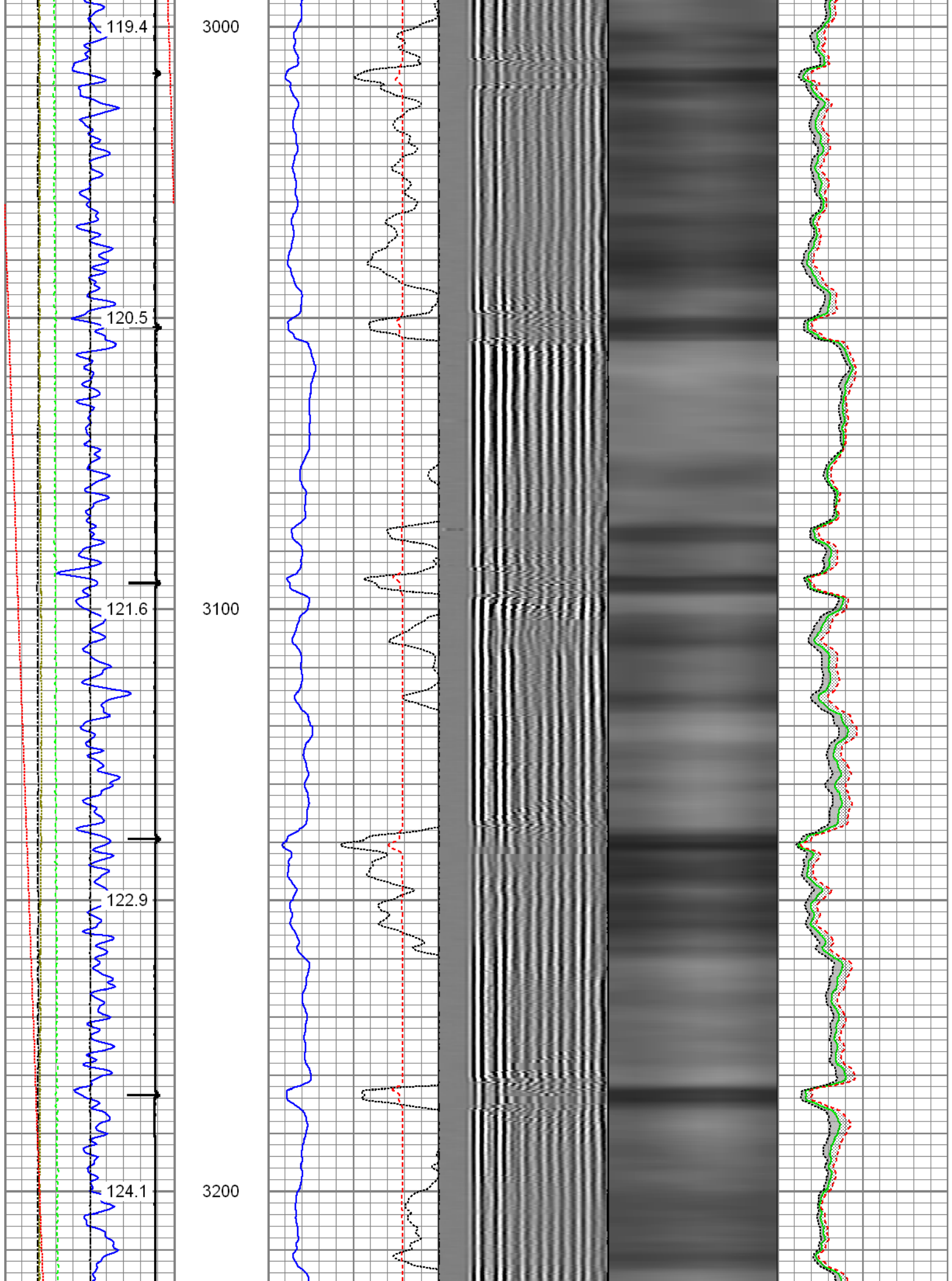


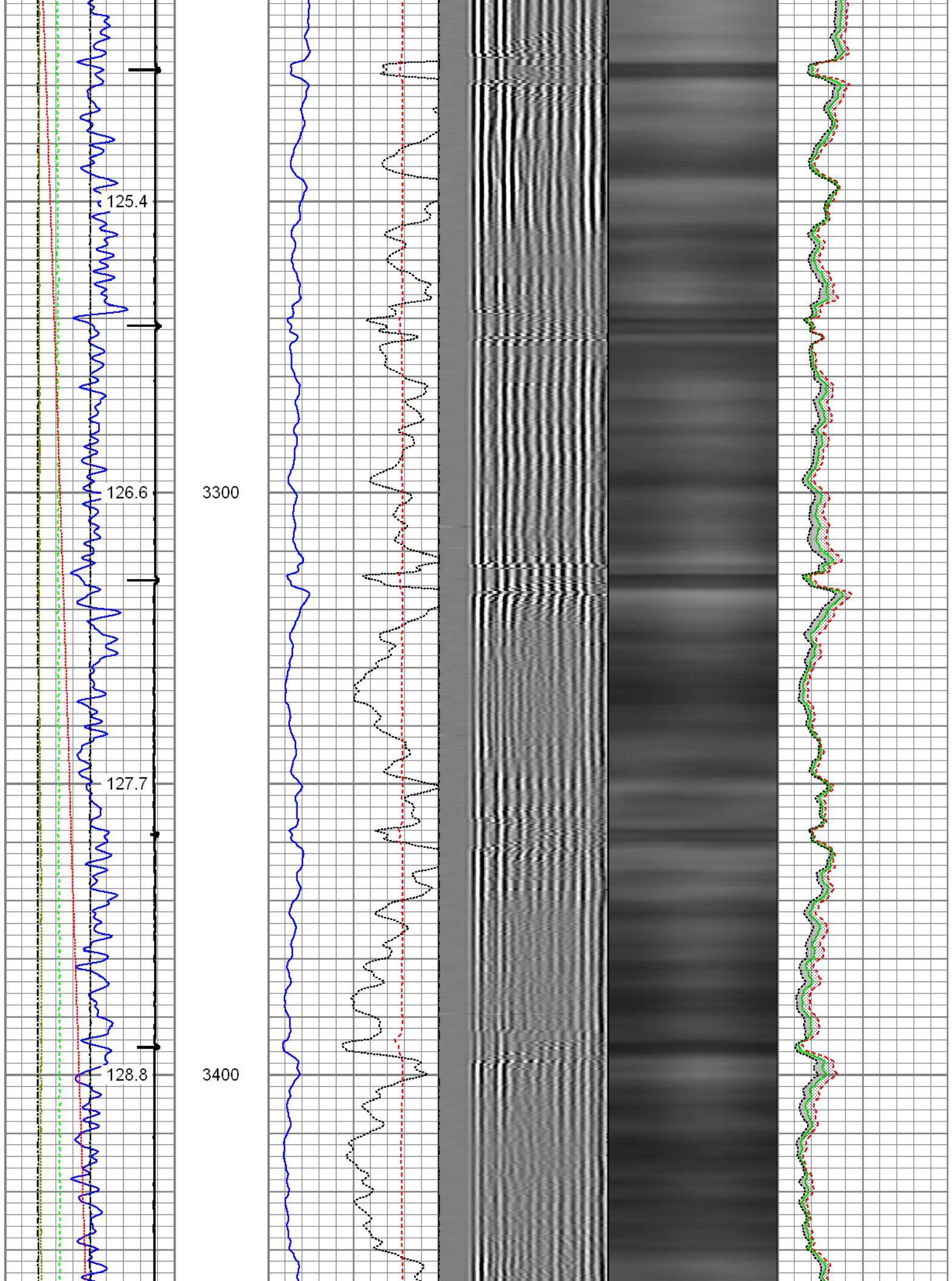


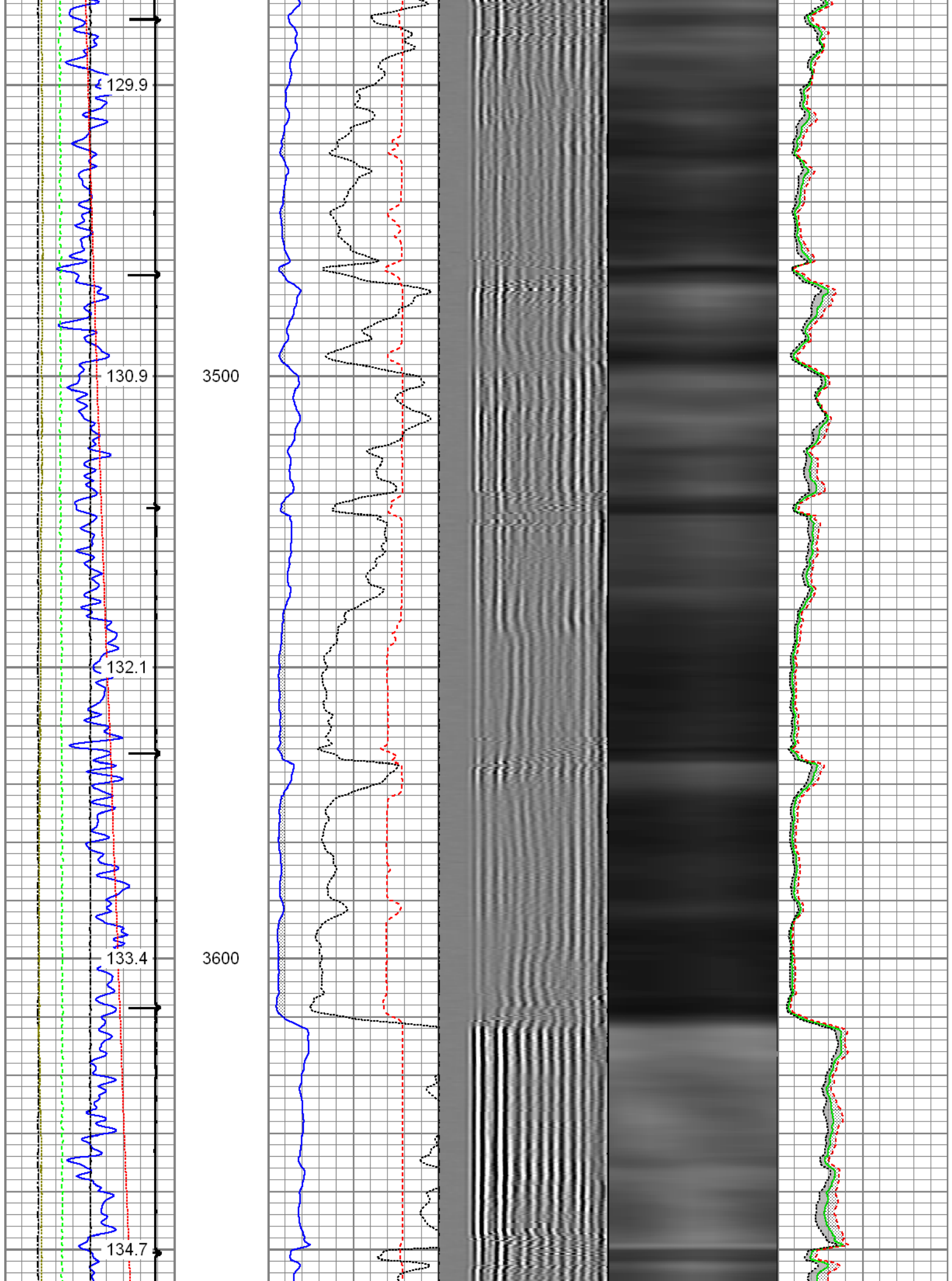




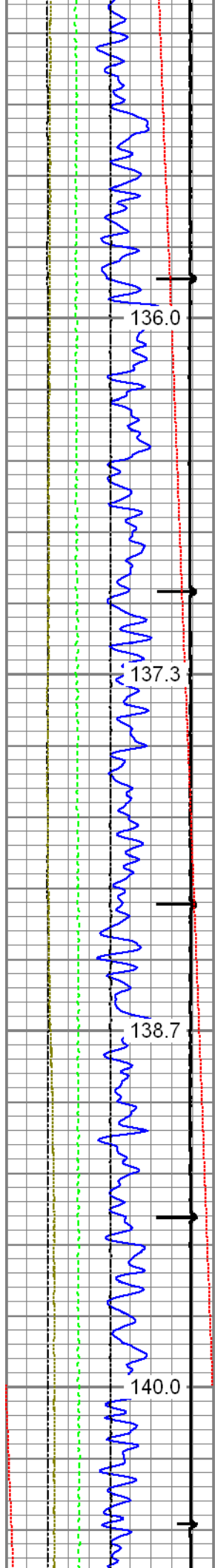






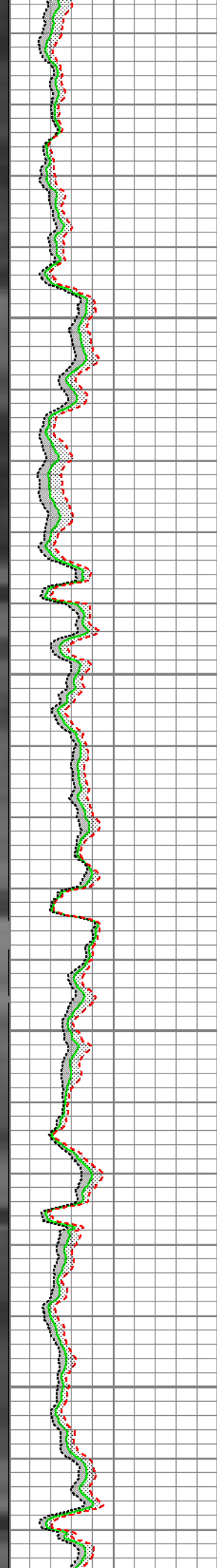
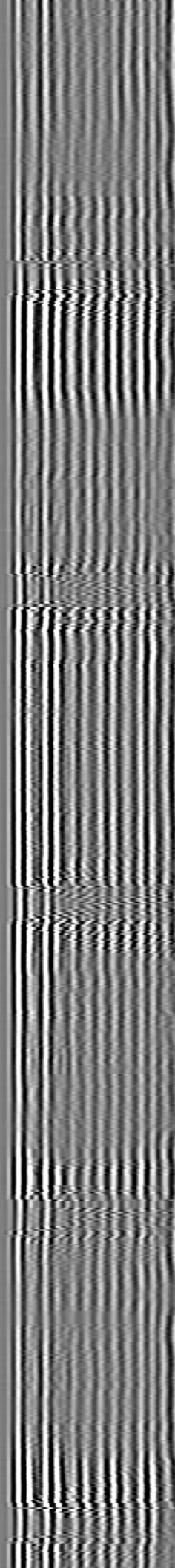
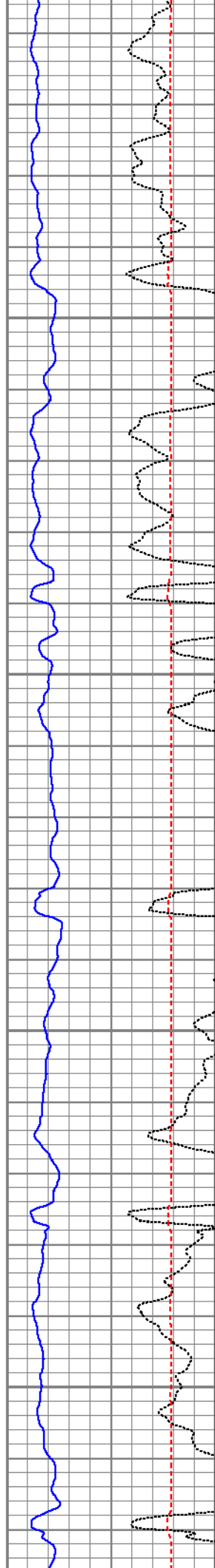




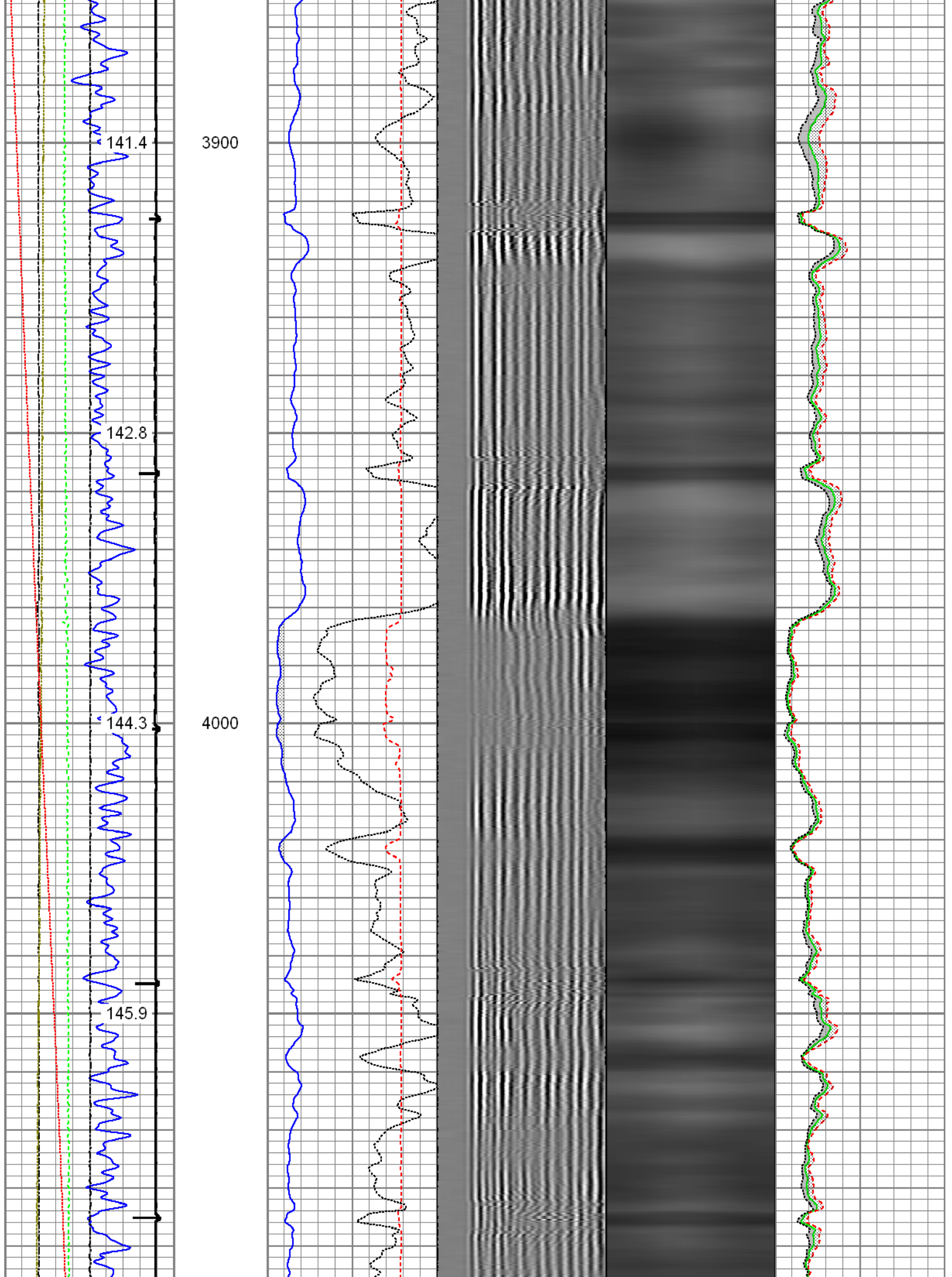


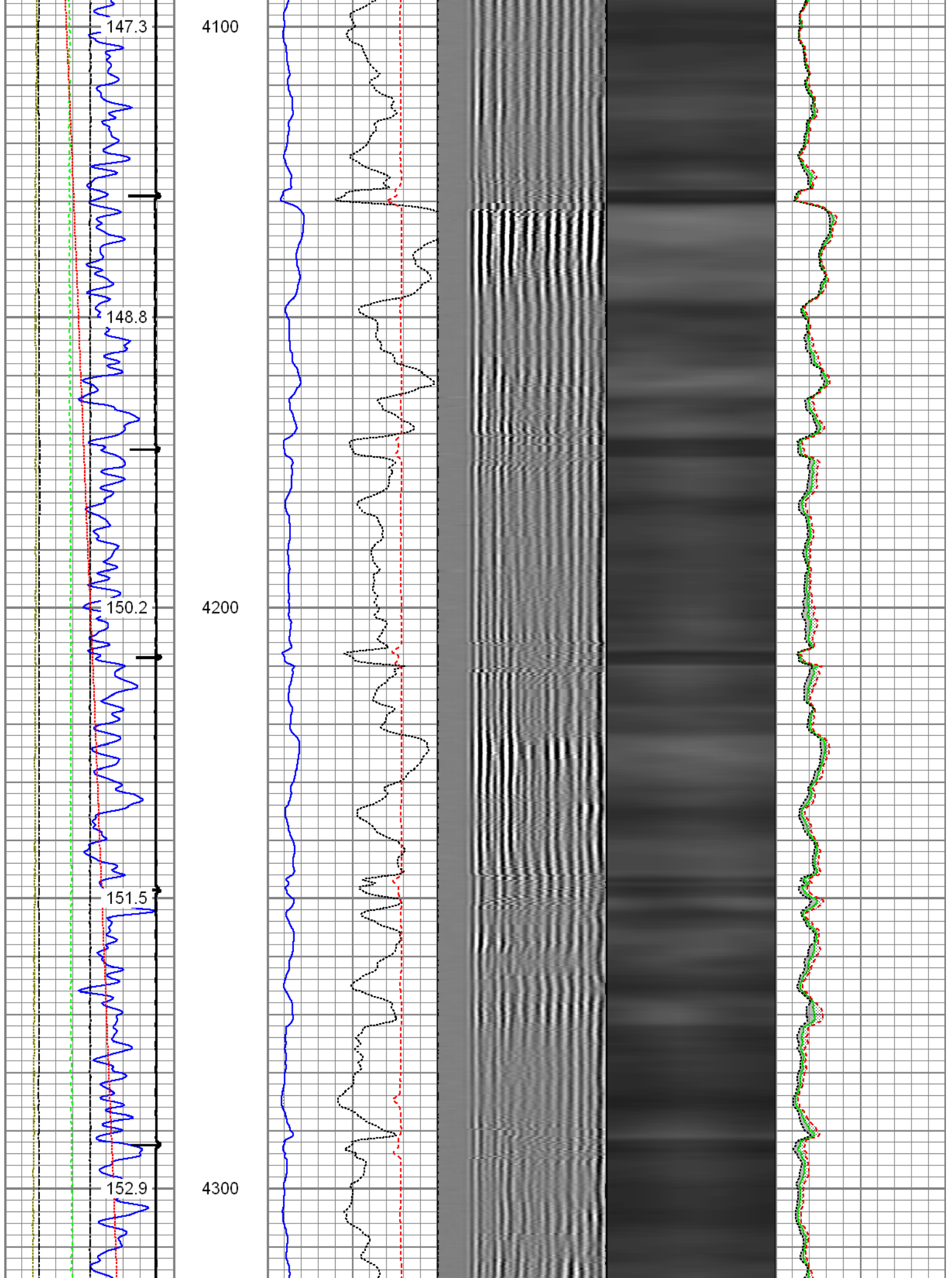
3700

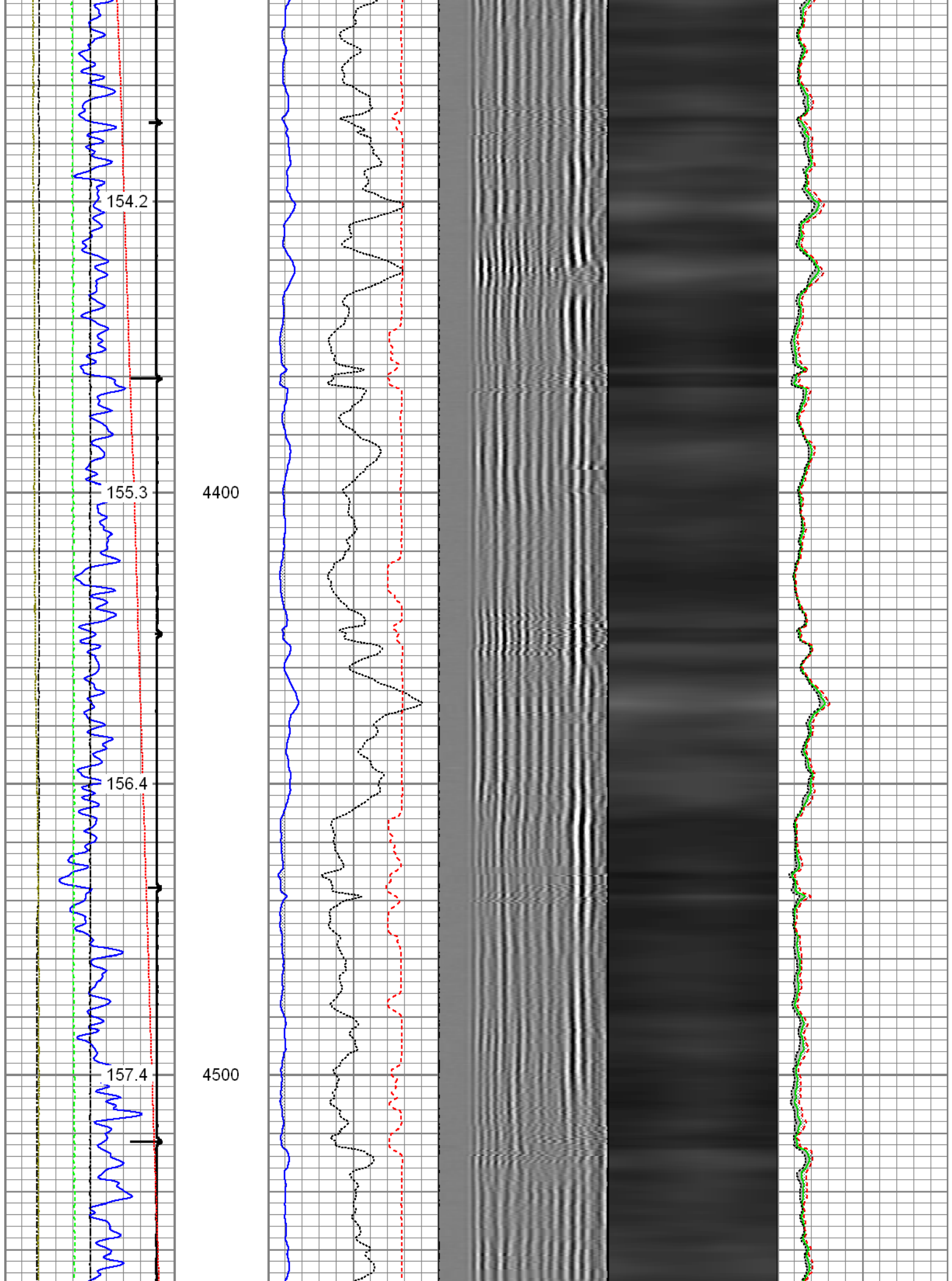
3800

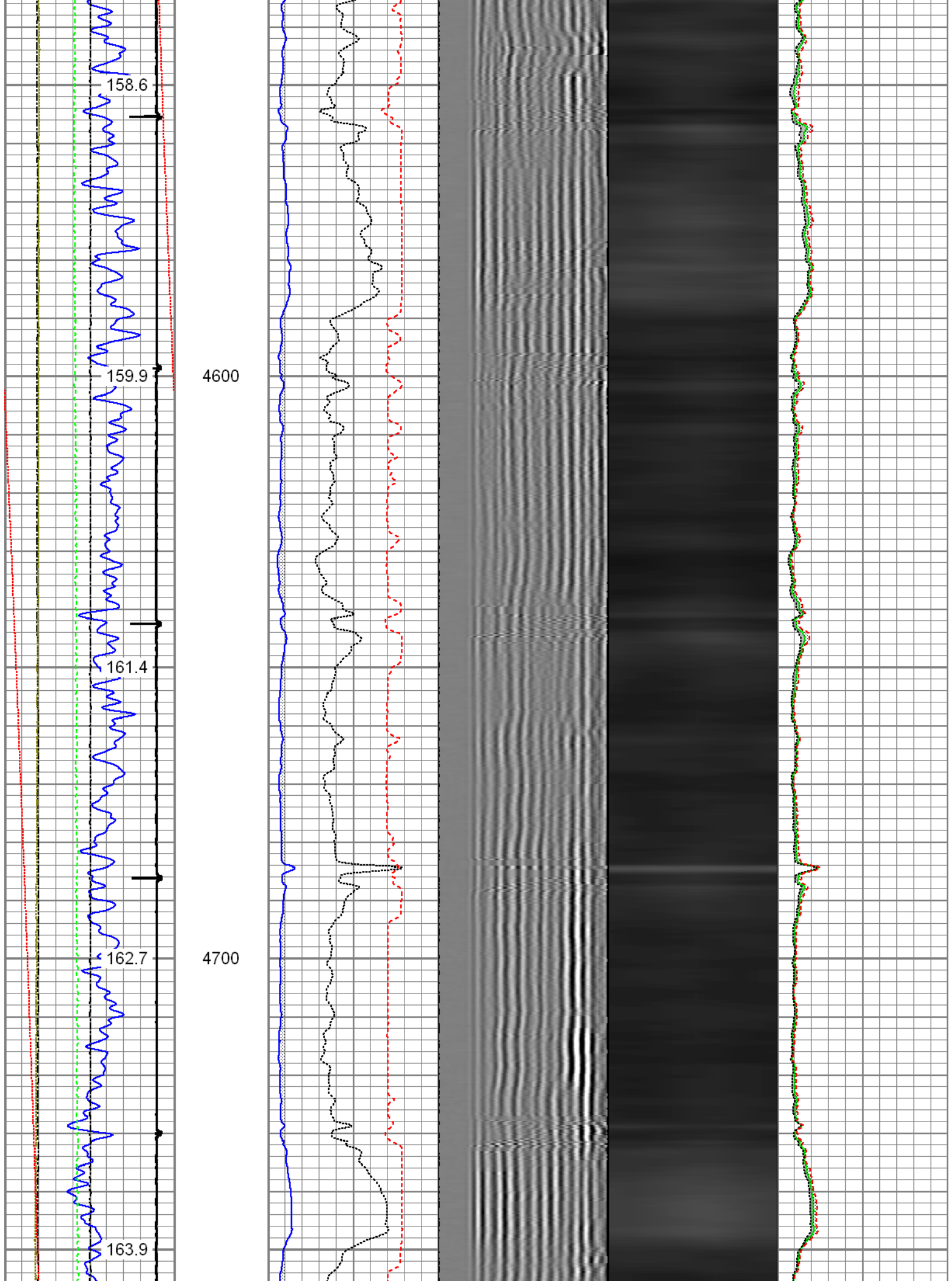




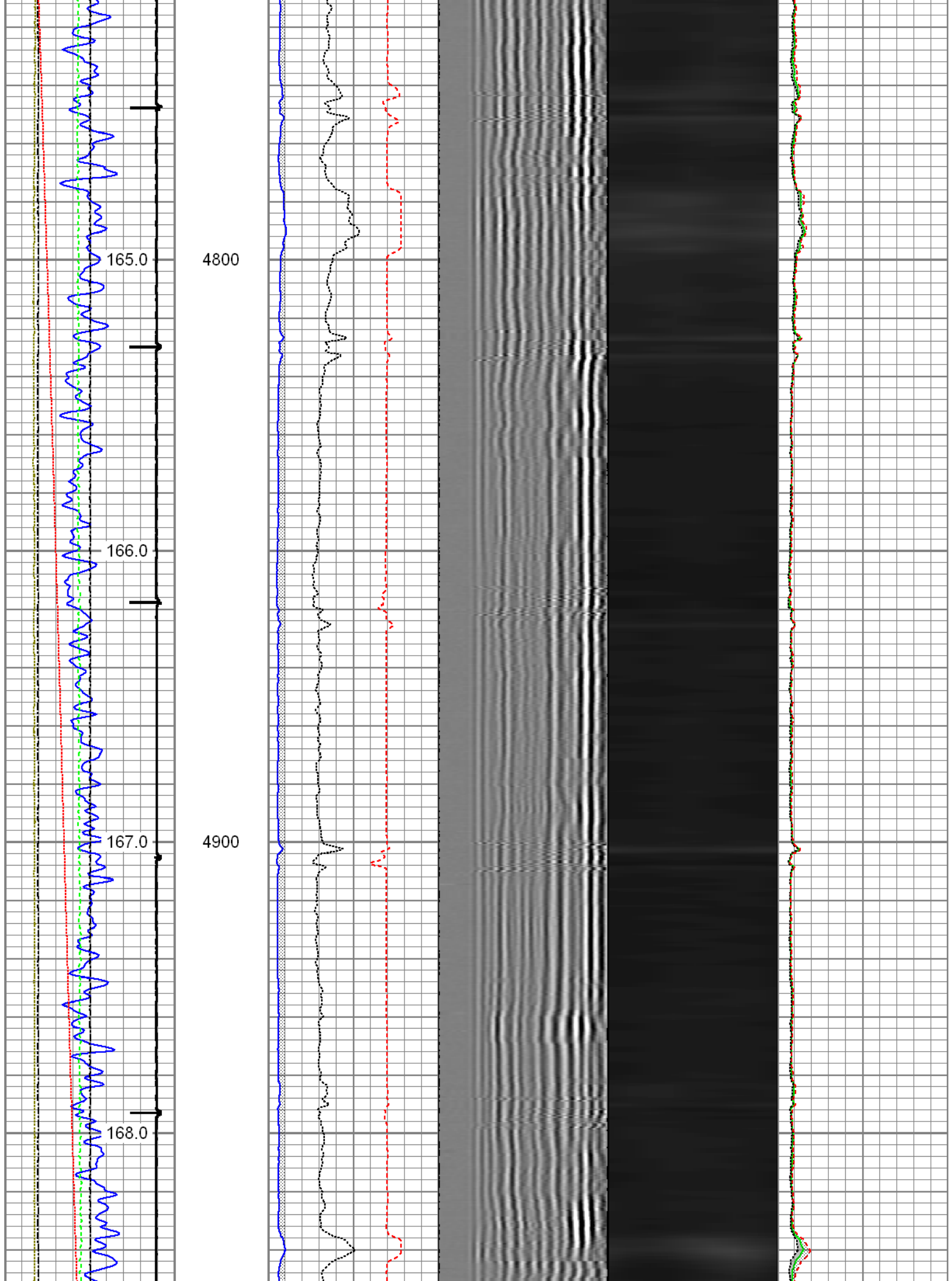




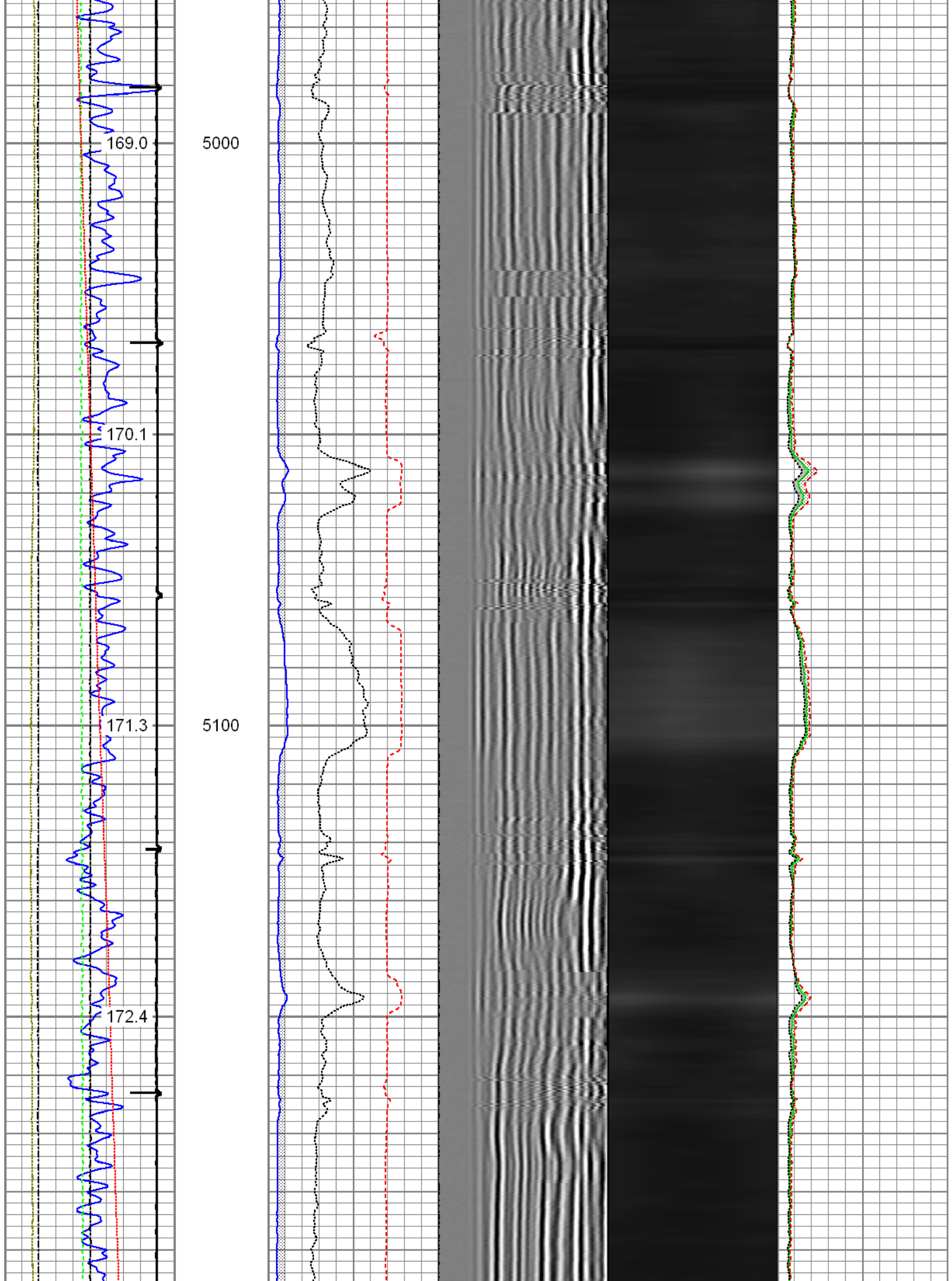


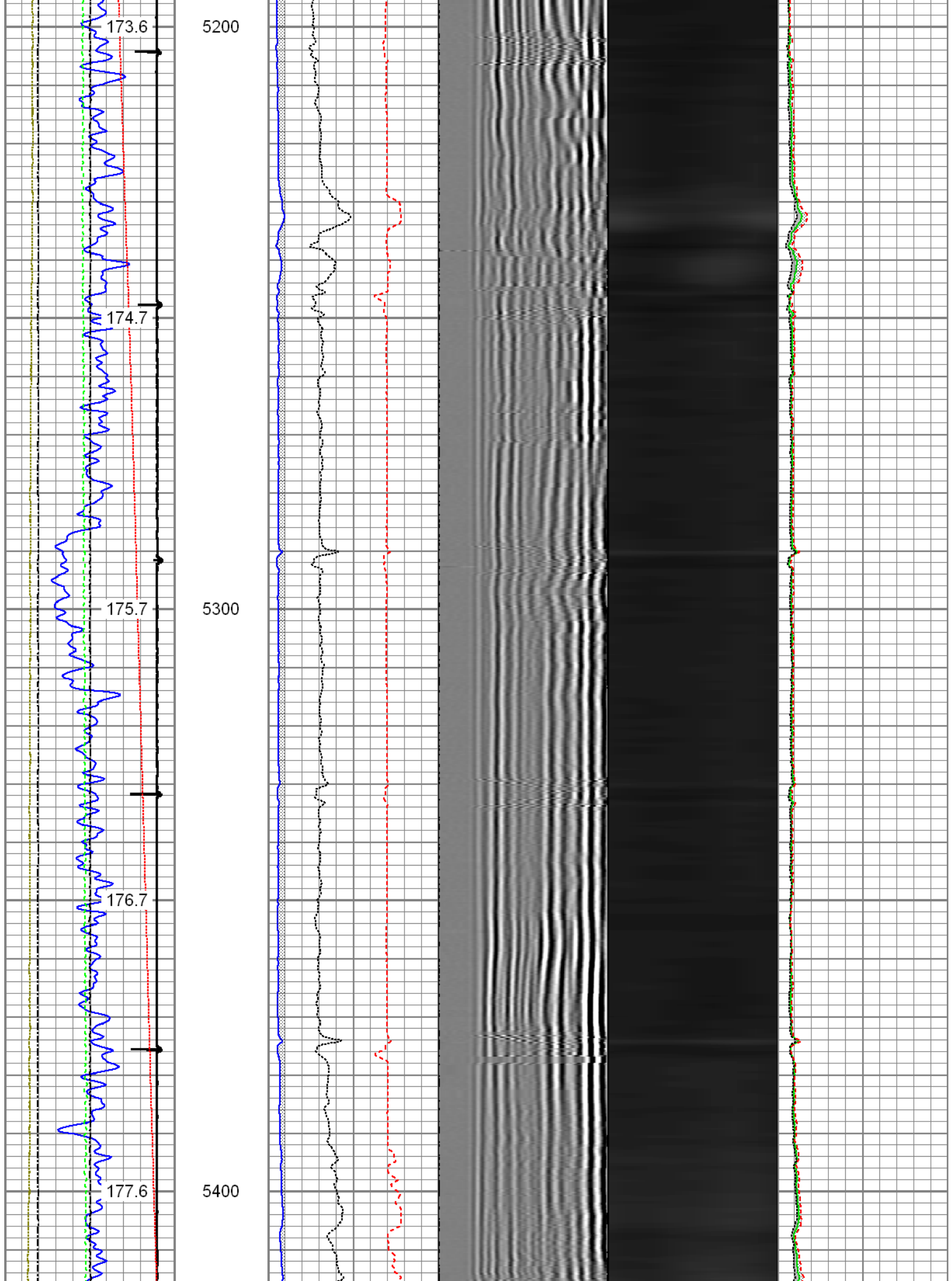


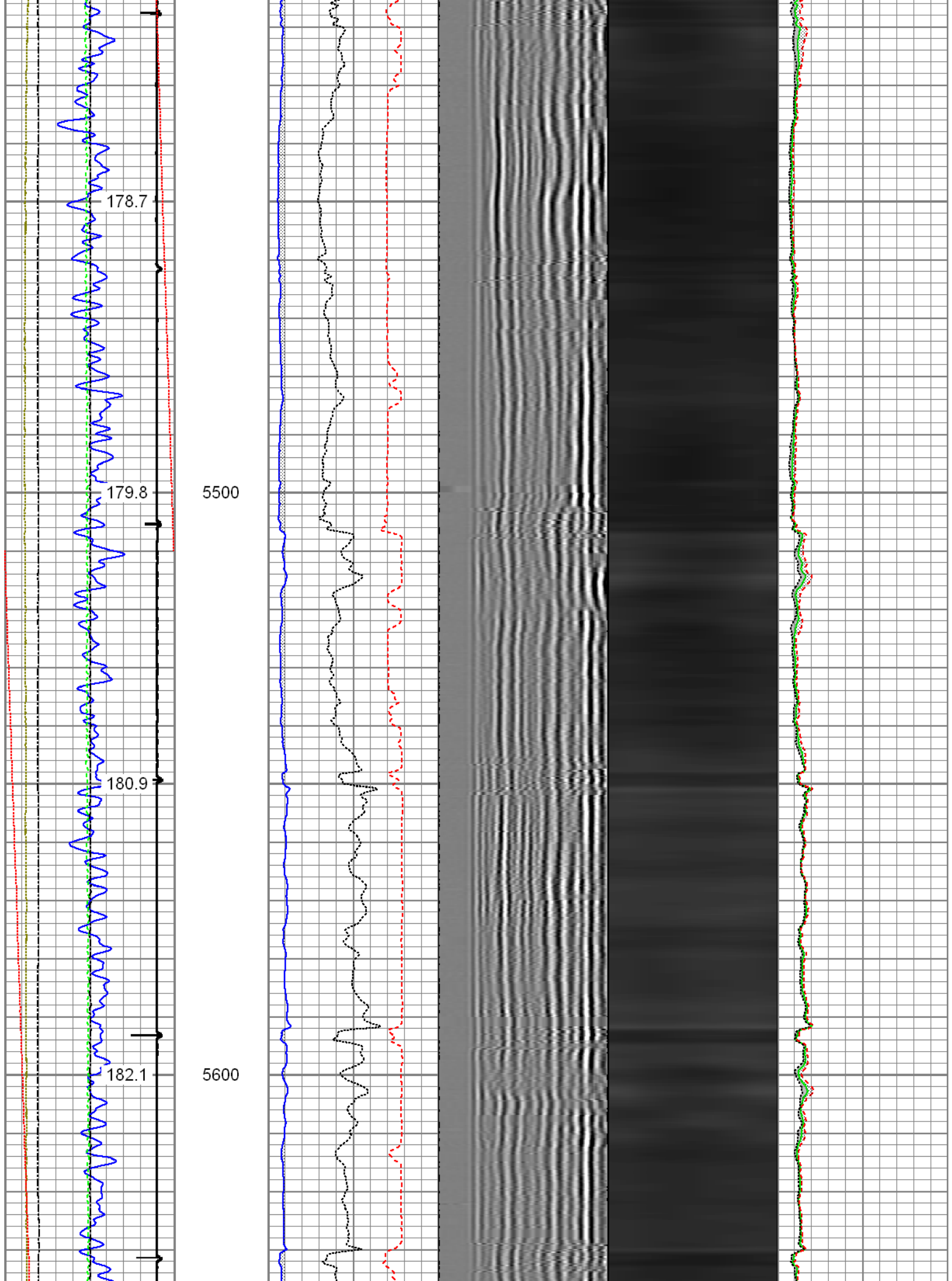


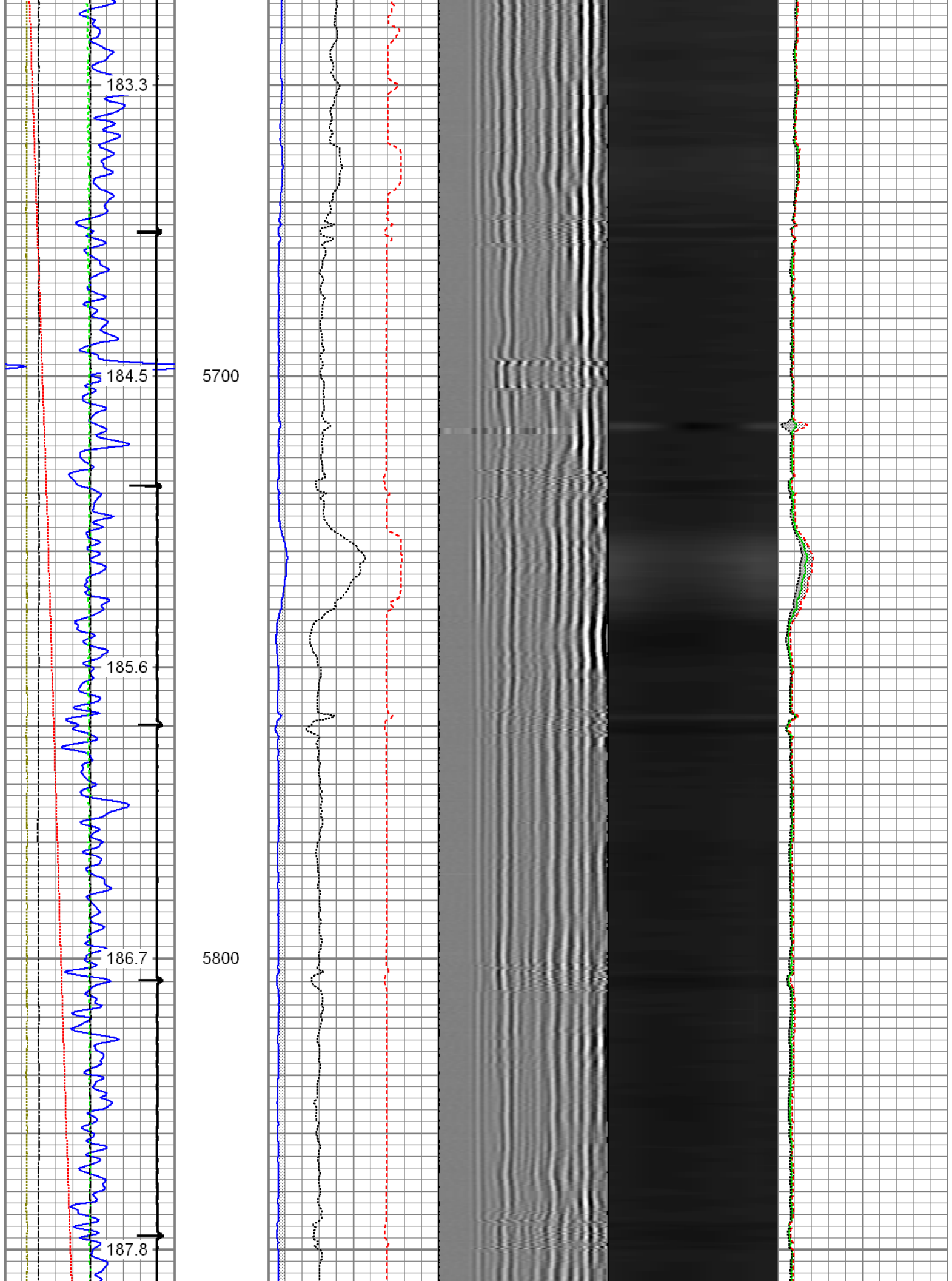




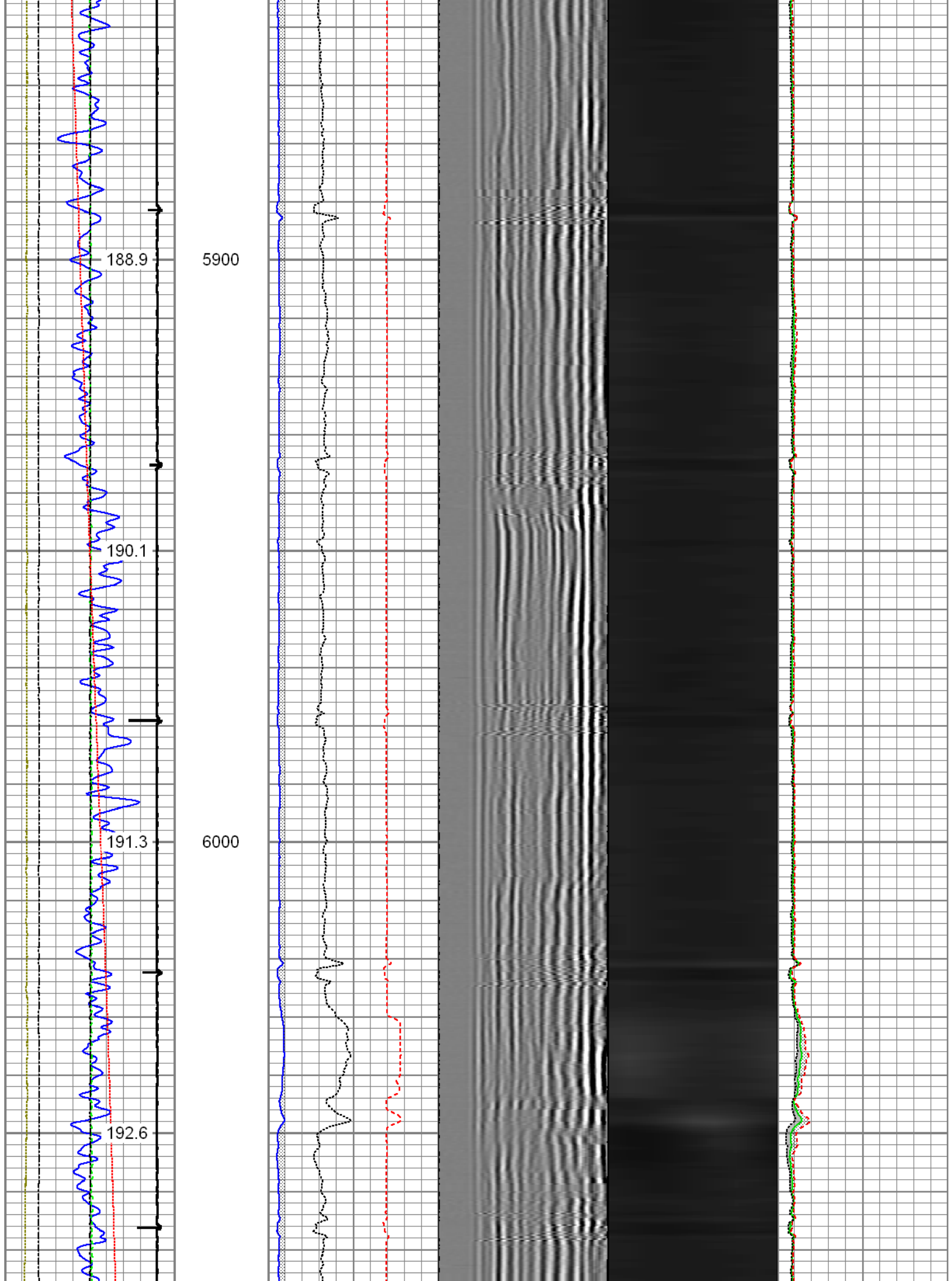


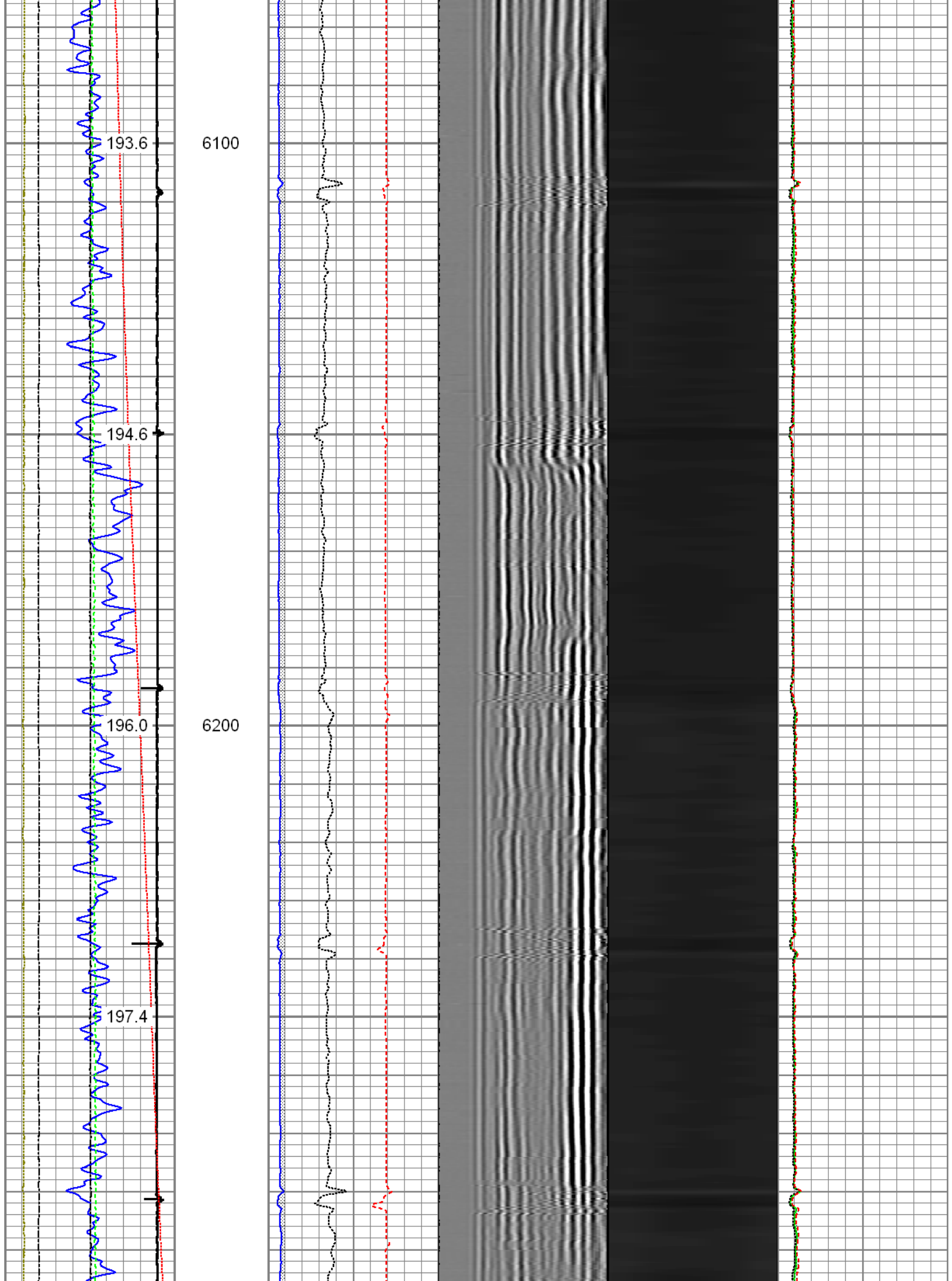


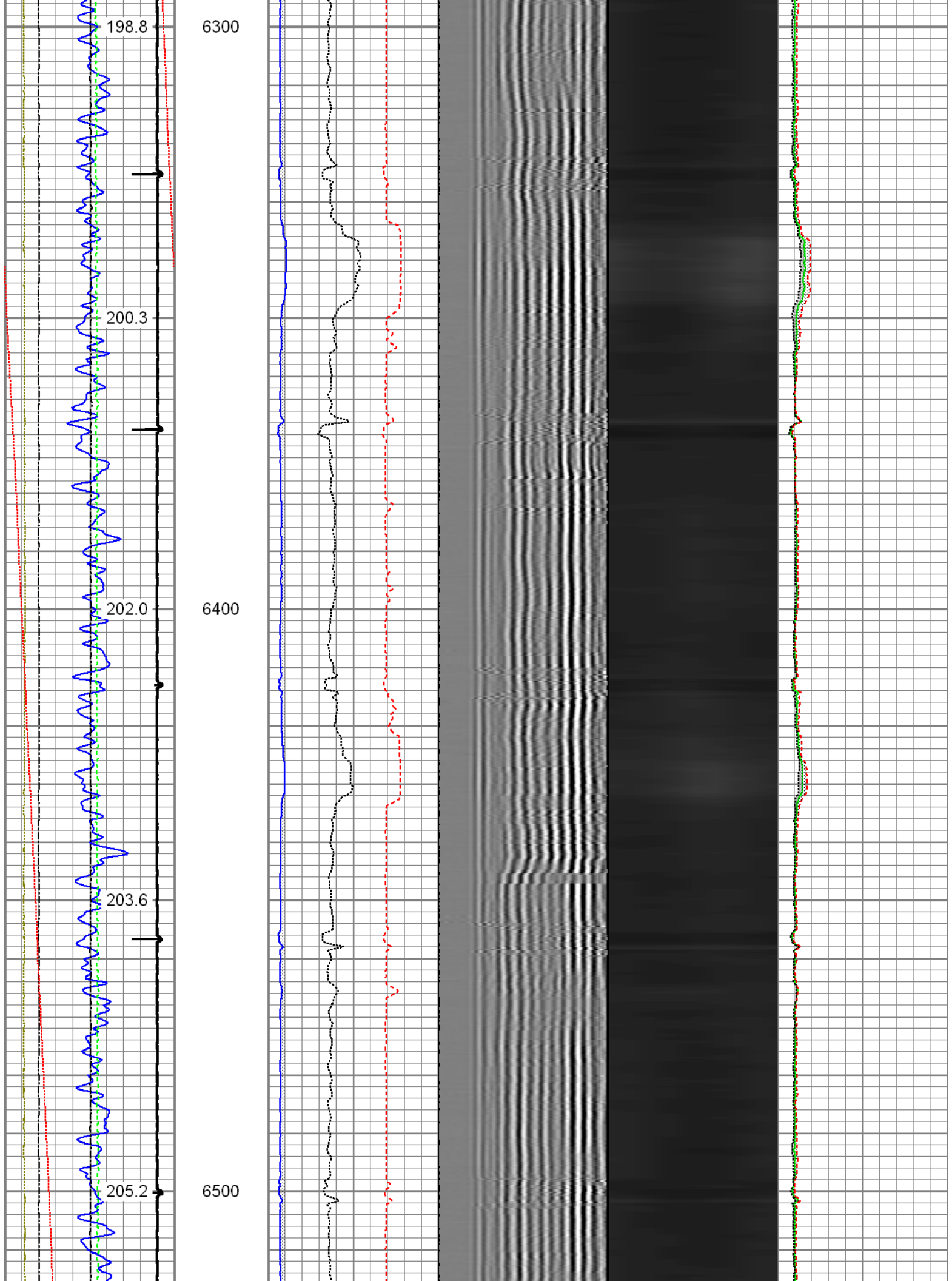


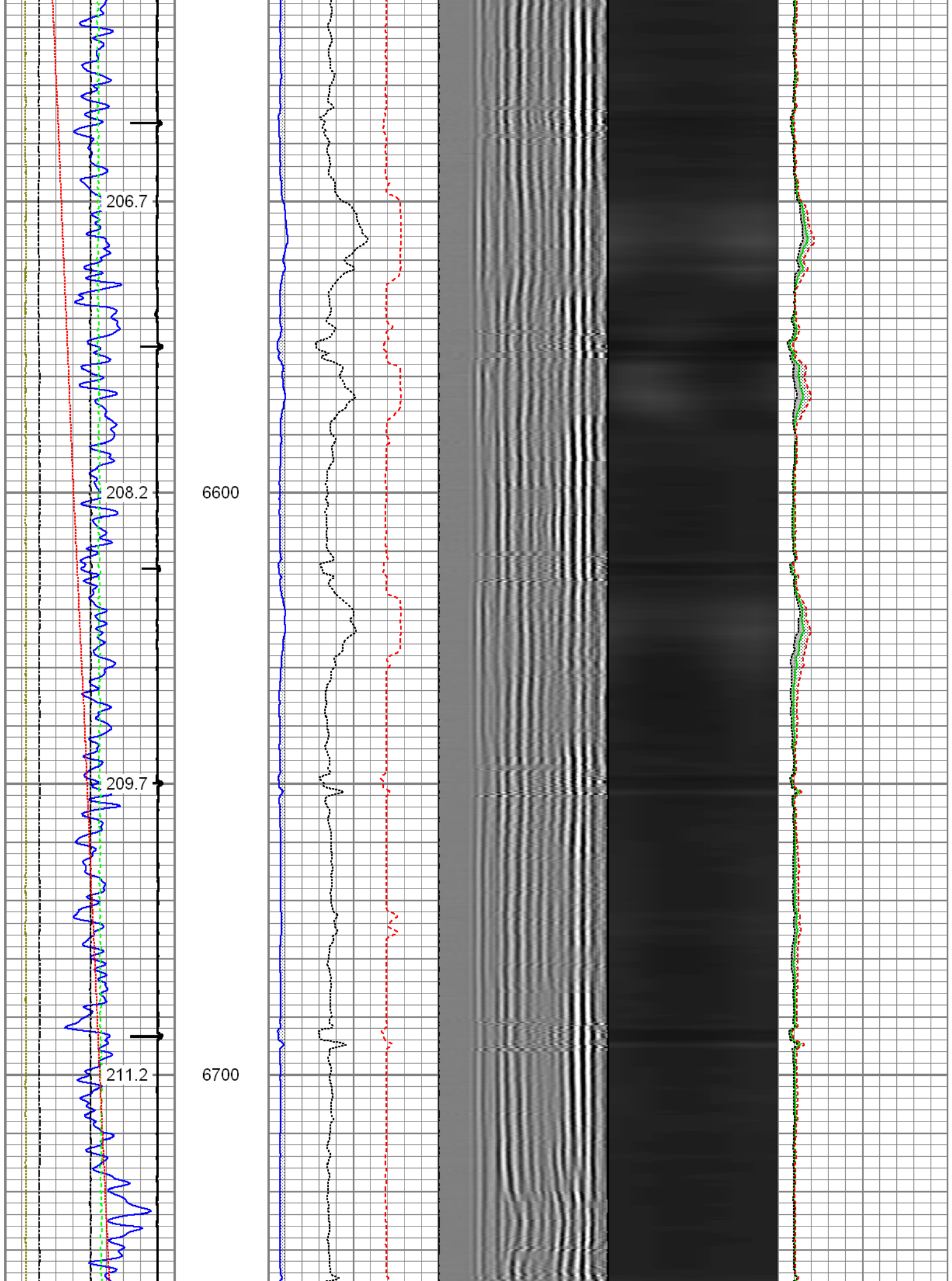




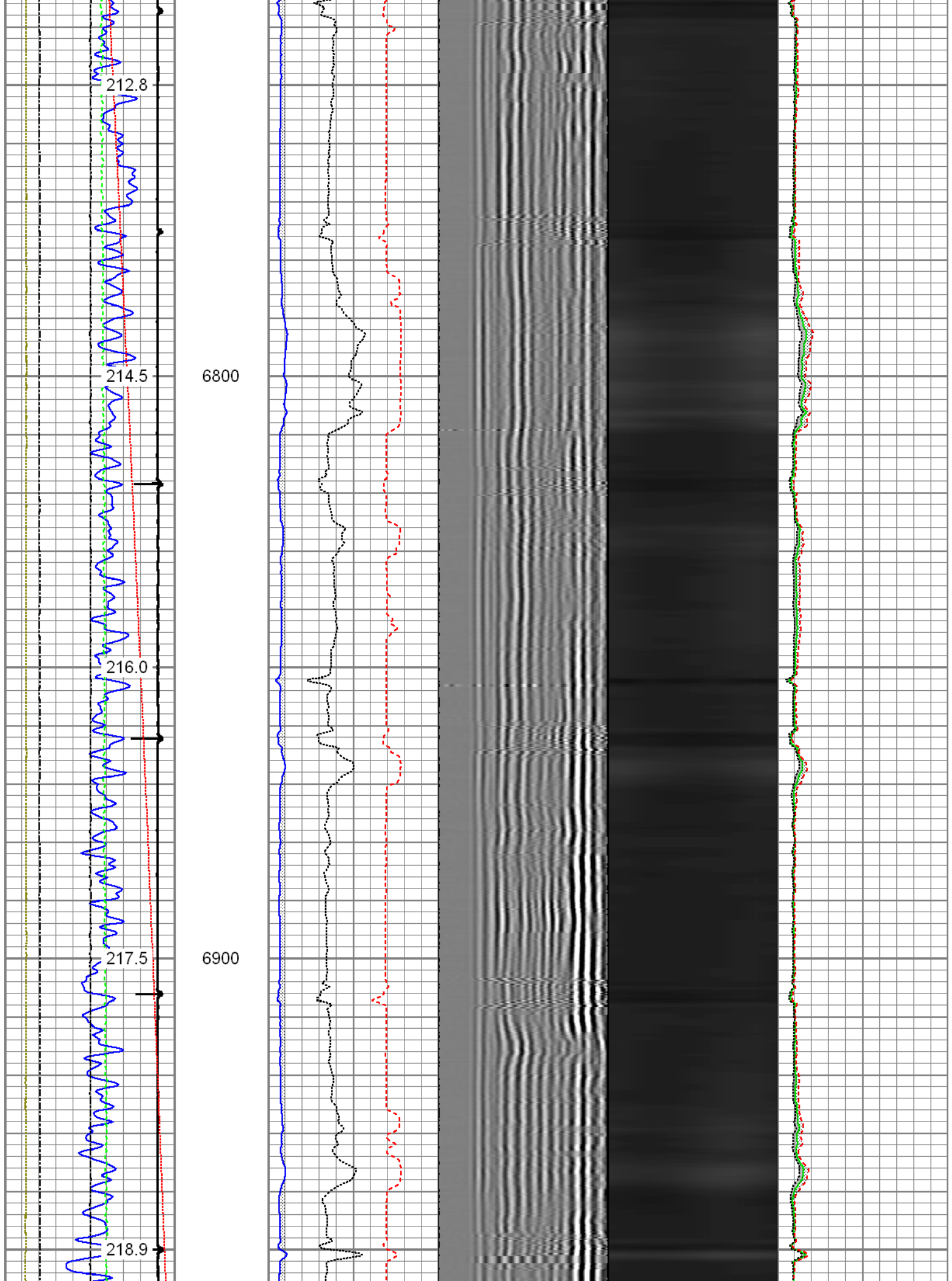


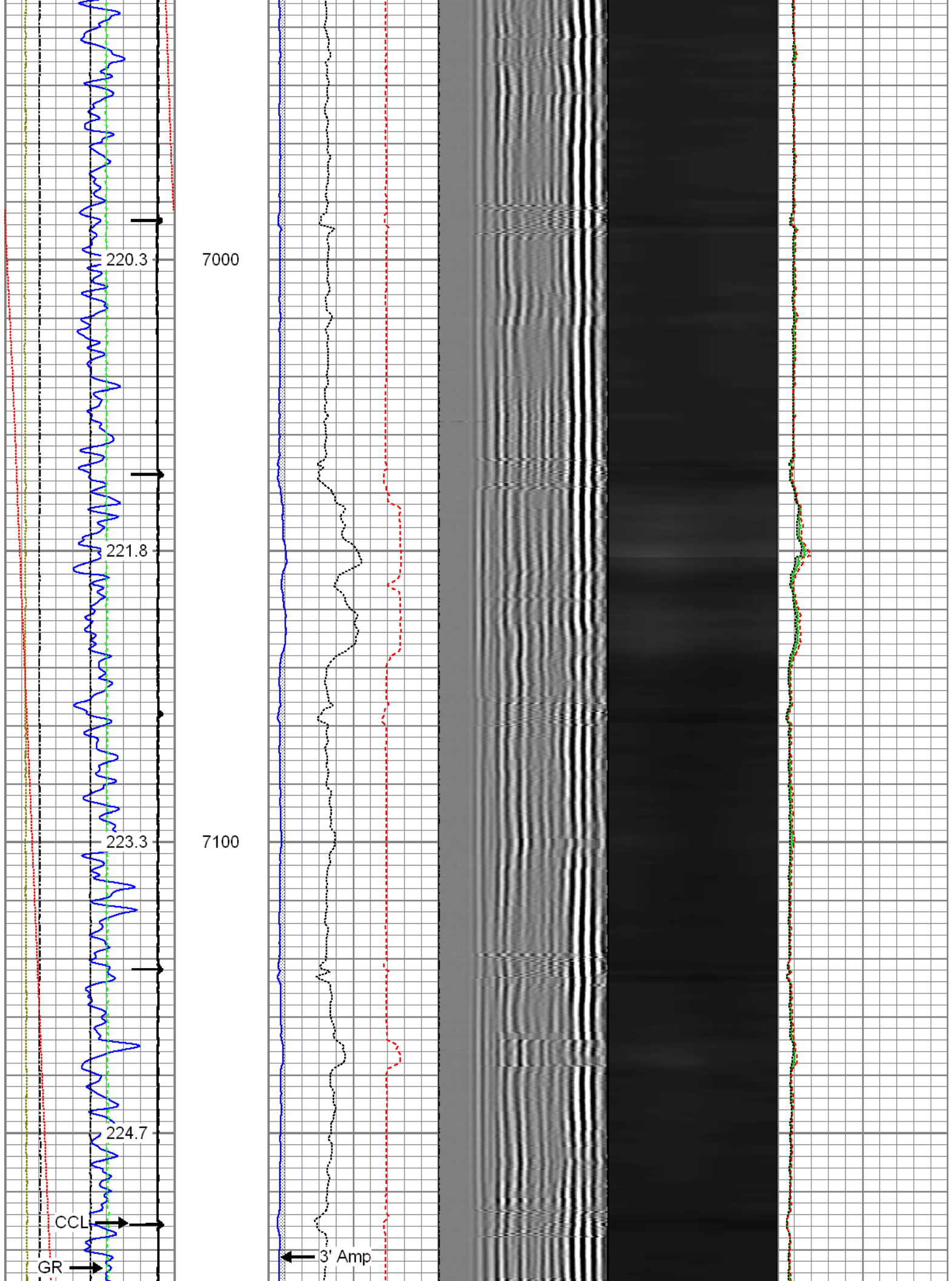


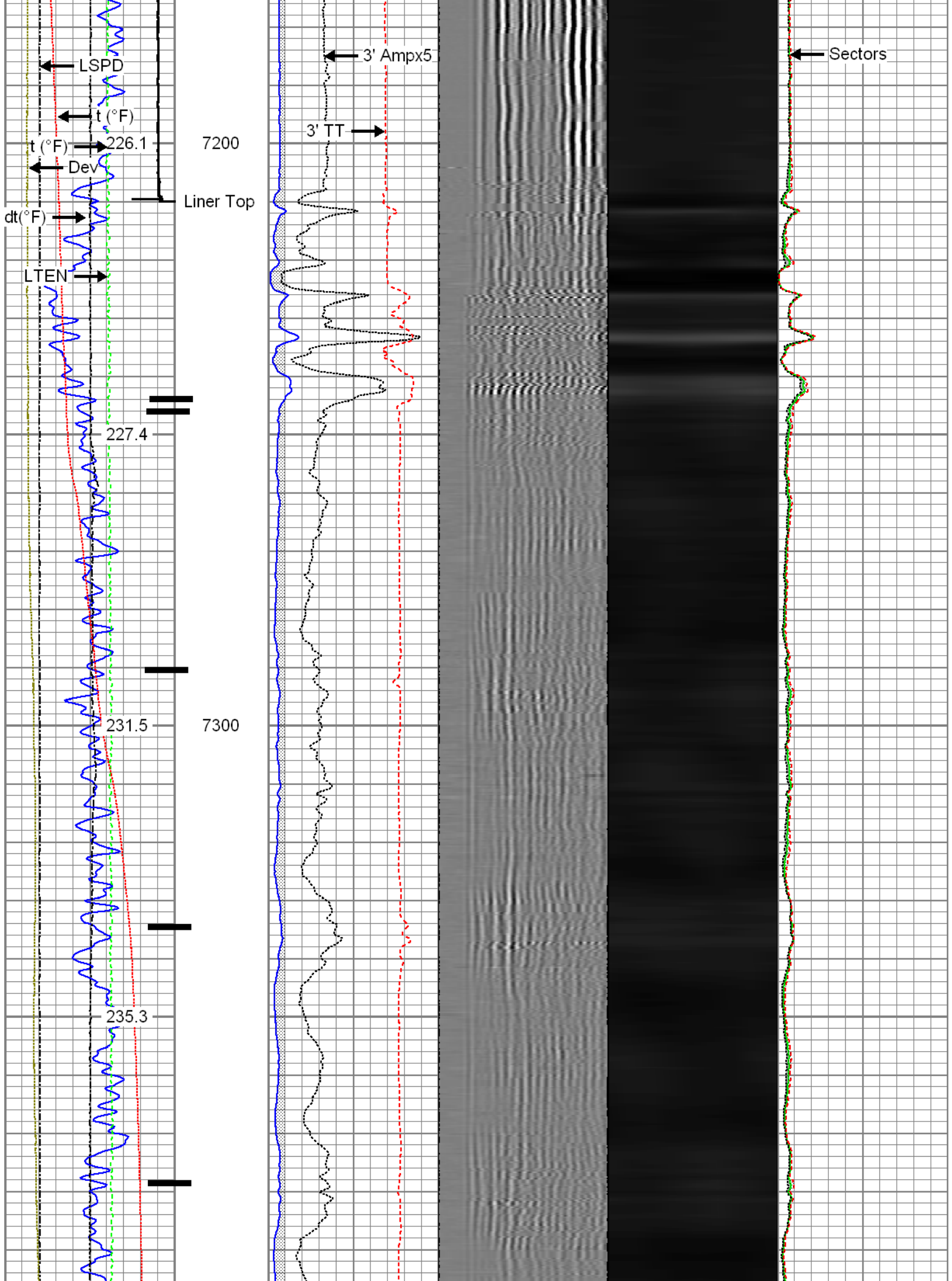


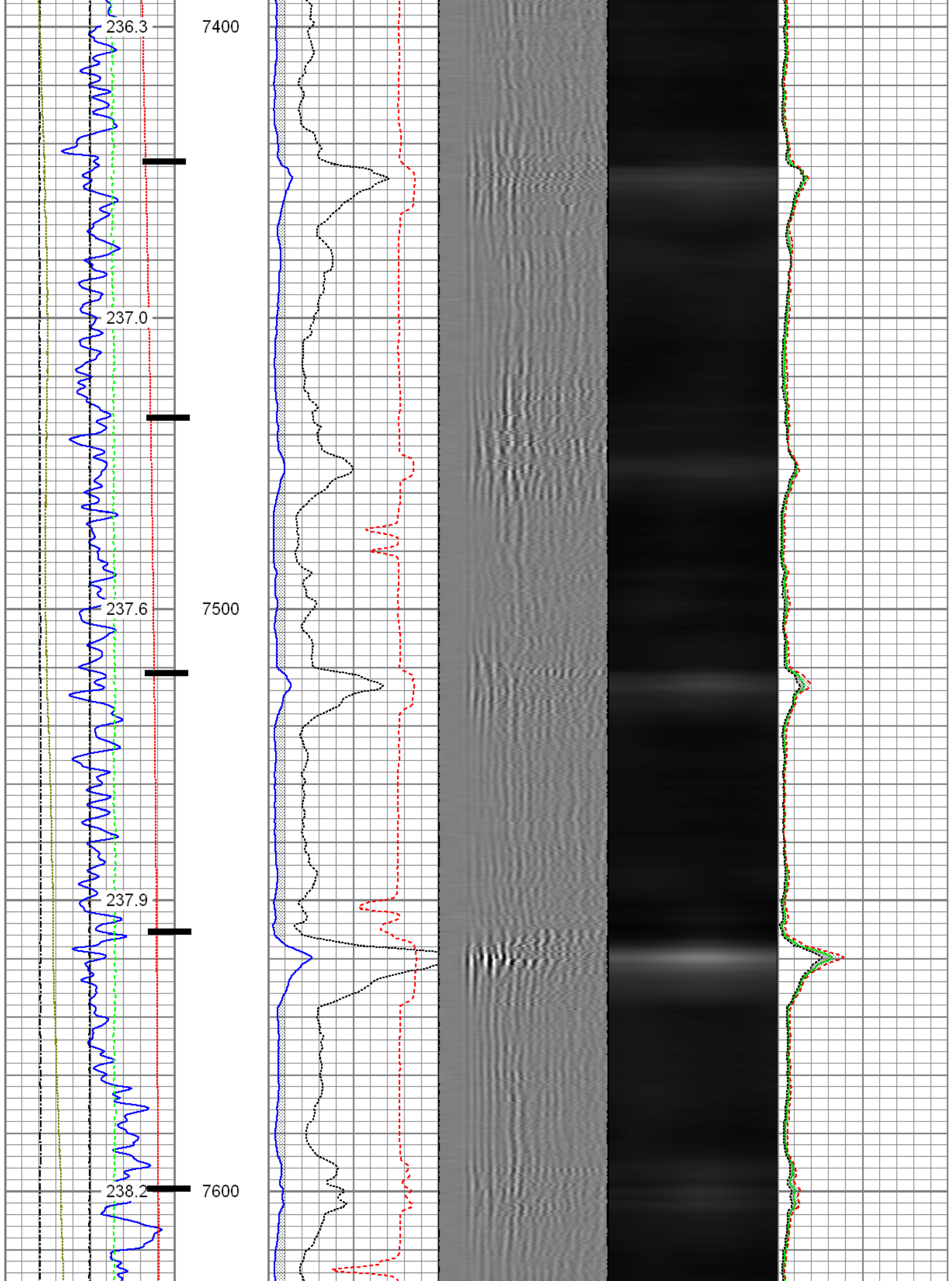




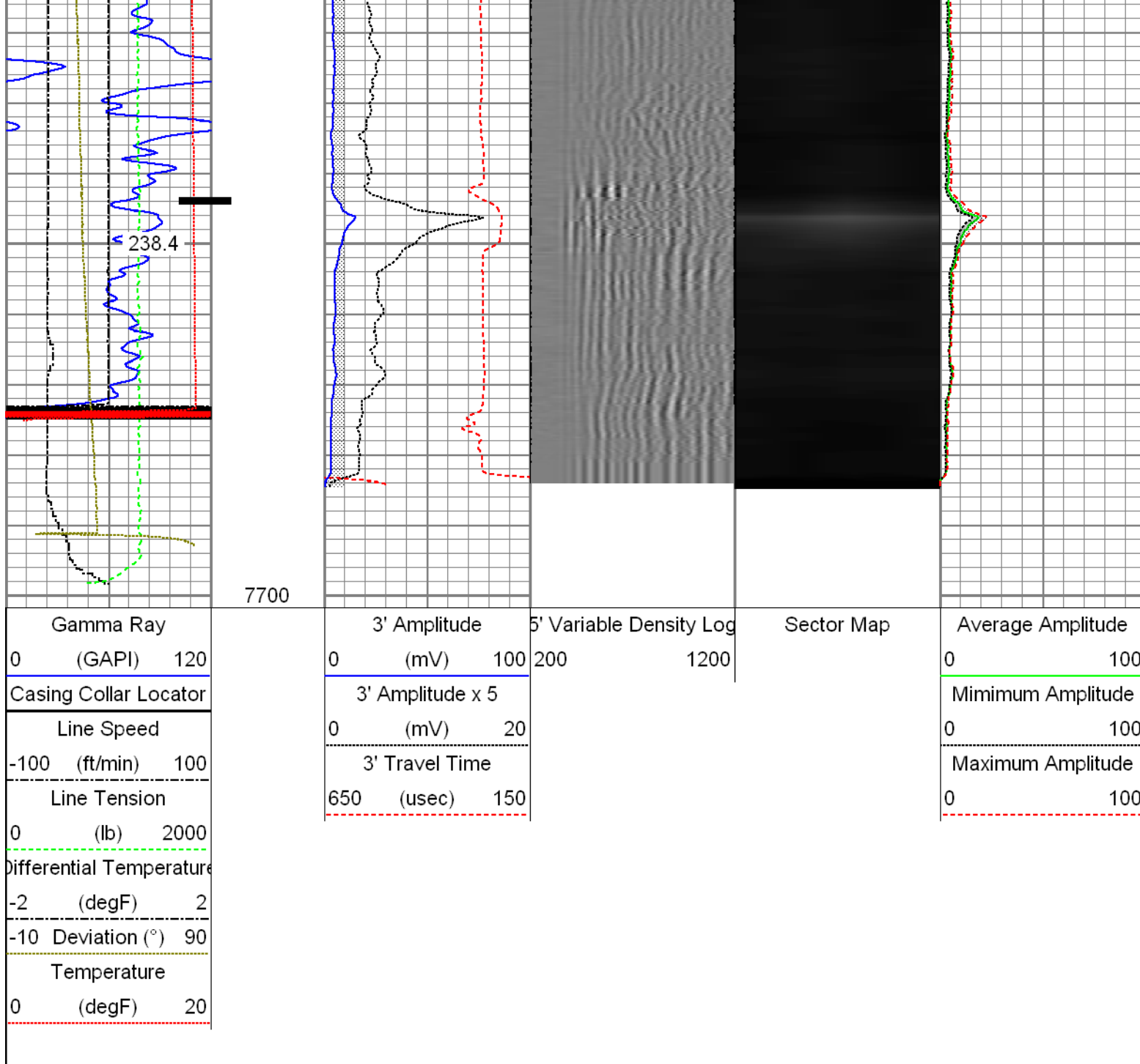





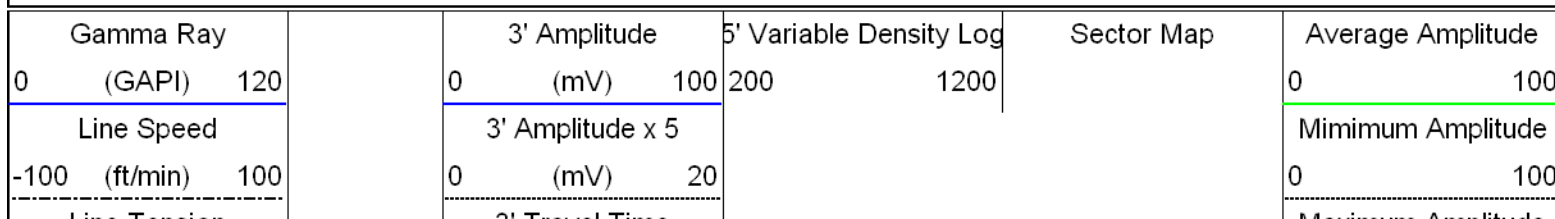




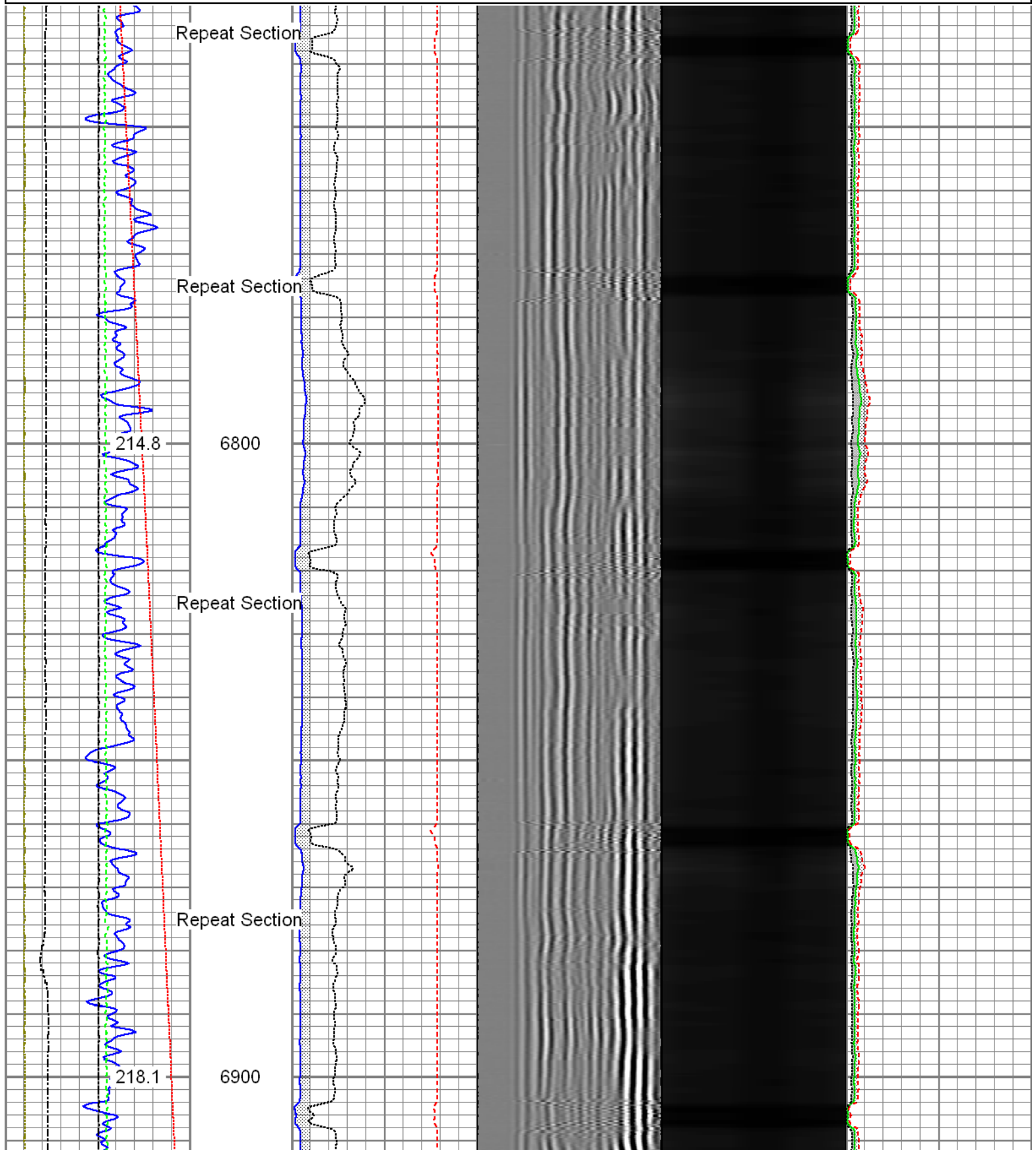


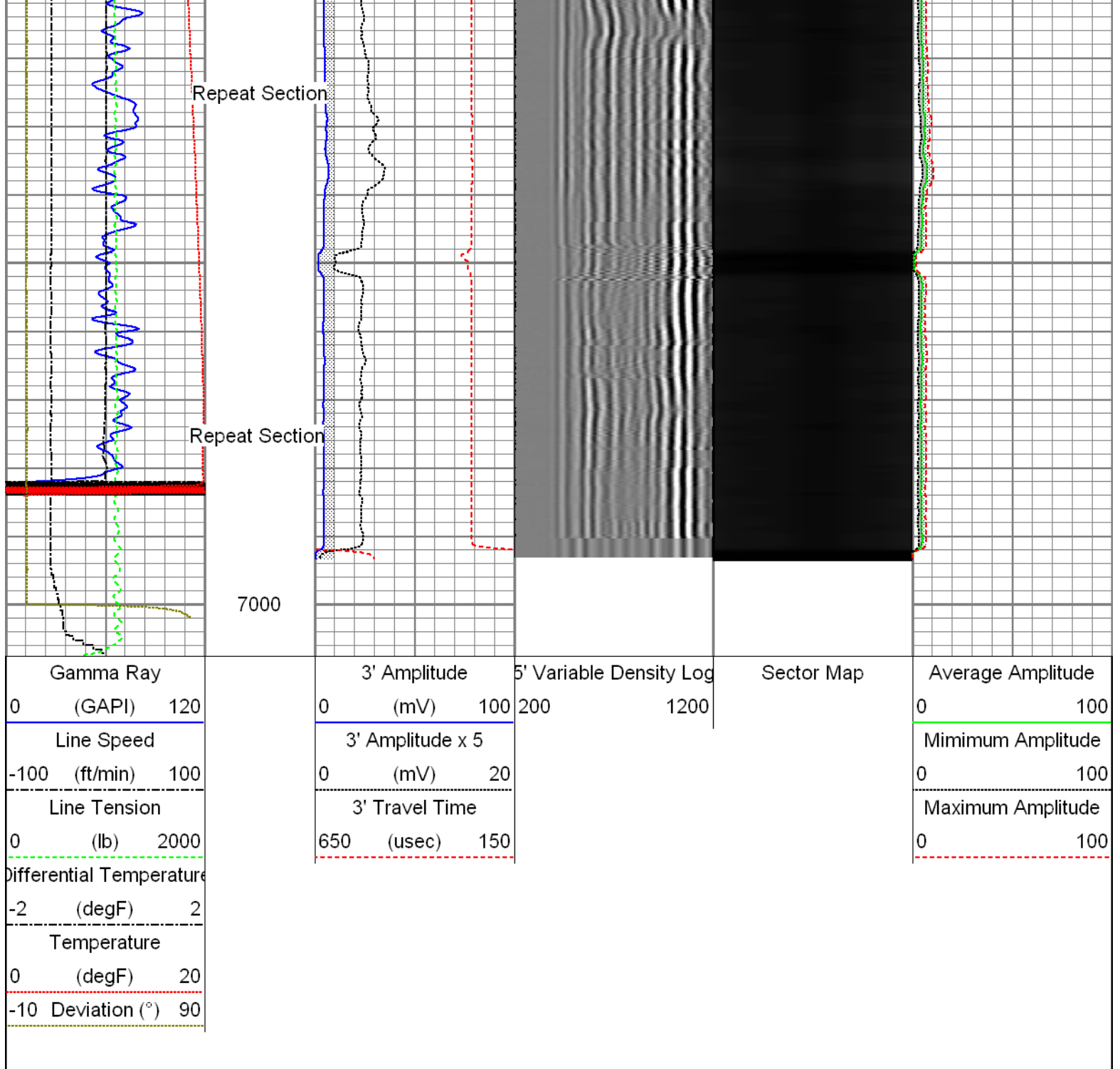


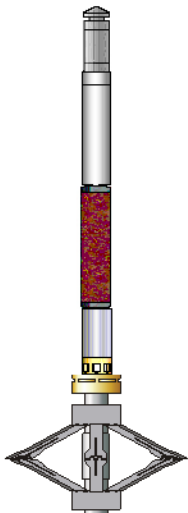
	<div>Repeat Pass</div> <div>Recorded with 2800 PSI Surface Induced Pressure</div>
Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:	0512336463_anadarko_badger state 32c-3hz_08-12-15_mit_rbl.db pass3 rbt4_mit Wed Aug 12 09:55:03 2015 by Log 7.0 B1 Depth in Feet scaled 1:240

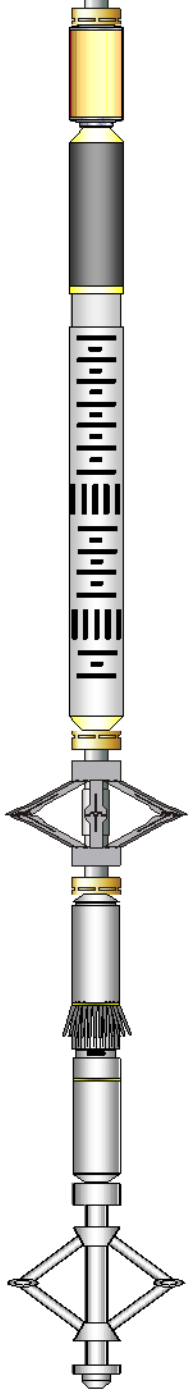
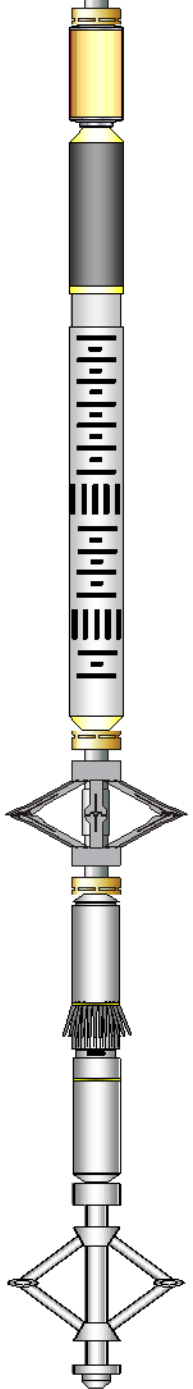


Line Tension			3 Travel Time			Maximum Amplitude		
0	(lb)	2000	650	(usec)	150	0		100
<div></div>								
Differential Temperature								
-2	(degF)	2						
Temperature								
0	(degF)	20						
-10	Deviation (°)	90						





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	25.46		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
			UW_PRT-UW_PRT_016 (10025095) Platinum Resistance Thermometer	1.04	1.69	5.20
TEMP	24.07		UW_PRC #4 -DSSRAC (081) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00

CCL	20.27		UW_CCL-UW_CCL_028 (10009470) Ultrawire 3-1/8" CCL	1.61	3.13	36.00
WVFS1	15.42		UW_RBT-UW_RBT_004 (10013454) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS2	15.42					
WVFS3	15.42					
WVFS4	15.42					
WVFS5	15.42					
WVFS6	15.42					
WVFS7	15.42					
WVFS8	15.42					
CBLTEMP	15.42		UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
CBLROT	15.42					
WVFS5FT	14.42		UW_MIT-UW_MIT40_027 (218950) 40 Multifinger Imaging Tool	4.54	2.75	61.10
MIT	5.41					
			UW_PRC-UW_PRC_057 (1102) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
			UW_BUL-UW_BUL_006 (031422) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
TSTAMP	0.00					
Dataset: 0512336463_Anadarko_Badger State 32C-3HZ_08-12-15_MIT_RBL.db: field/well/run1/pass5 Total Length: 29.71 ft Total Weight: 360.50 lb O.D. 3.13 in						

Calibration Report	
Database File:	0512336463_anadarko_badger state 32c-3hz_08-12-15_mit_rbl.db
Dataset Pathname:	pass5
Dataset Creation:	Wed Aug 12 10:07:52 2015 by Log 7.0 B1
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



Vertical:		Inc X	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: Wed Aug 12 09:23:02 2015

Ring size: (in)	4		5		6		7
		Sens		Sens		Sens	
Finger 01:	1442	281.0	1723	283.0	2006	317.0	2323
Finger 02:	1507	261.0	1768	249.0	2017	281.0	2298
Finger 03:	1424	288.0	1712	282.0	1994	317.0	2311
Finger 04:	1445	289.0	1734	282.0	2016	309.0	2325
Finger 05:	1483	280.0	1763	273.0	2036	296.0	2332
Finger 06:	1410	293.0	1703	290.0	1993	318.0	2311
Finger 07:	1432	291.0	1723	288.0	2011	311.0	2322
Finger 08:	1427	288.0	1715	286.0	2001	303.0	2304
Finger 09:	1416	293.0	1709	294.0	2003	308.0	2311
Finger 10:	1428	283.0	1711	288.0	1999	295.0	2294
Finger 11:	1414	292.0	1706	296.0	2002	303.0	2305
Finger 12:	1364	293.0	1657	303.0	1960	307.0	2267
Finger 13:	1460	275.0	1735	281.0	2016	276.0	2292
Finger 14:	1397	277.0	1674	293.0	1967	292.0	2259
Finger 15:	1388	291.0	1679	304.0	1983	298.0	2281
Finger 16:	1391	284.0	1675	301.0	1976	293.0	2269
Finger 17:	1396	292.0	1688	311.0	1999	298.0	2297
Finger 18:	1342	276.0	1618	298.0	1916	284.0	2200
Finger 19:	1393	284.0	1677	303.0	1980	286.0	2266
Finger 20:	1397	282.0	1679	304.0	1983	287.0	2270
Finger 21:	1353	291.0	1644	319.0	1963	301.0	2264
Finger 22:	1377	271.0	1648	297.0	1945	279.0	2224
Finger 23:	1379	278.0	1657	302.0	1959	286.0	2245
Finger 24:	1409	277.0	1686	299.0	1985	280.0	2265
Finger 25:	1336	273.0	1609	295.0	1904	284.0	2188
Finger 26:	1326	276.0	1602	300.0	1902	291.0	2193
Finger 27:	1417	274.0	1691	293.0	1984	285.0	2269
Finger 28:	1407	281.0	1688	300.0	1988	295.0	2283
Finger 29:	1464	263.0	1727	280.0	2007	279.0	2286
Finger 30:	1375	278.0	1653	297.0	1950	302.0	2252
Finger 31:	1408	283.0	1691	301.0	1992	303.0	2295
Finger 32:	1471	268.0	1739	277.0	2016	285.0	2301
Finger 33:	1425	285.0	1710	297.0	2007	314.0	2321
Finger 34:	1436	279.0	1715	288.0	2003	310.0	2313
Finger 35:	1488	259.0	1747	262.0	2009	282.0	2291
Finger 36:	1473	270.0	1743	274.0	2017	303.0	2320
Finger 37:	1373	290.0	1663	269.0	1932	301.0	2233
Finger 38:	1520	258.0	1778	252.0	2030	280.0	2310
Finger 39:	1447	279.0	1726	274.0	2000	301.0	2301
Finger 40:	1412	297.0	1709	287.0	1996	322.0	2318

**Segmented Cement Bond Log Calibration Report**


Serial Number:	10013454
Tool Model:	UW_RBT_004
Calibration Casing Diameter:	7.000 in
Calibration Depth:	19.860 ft

Master Calibration, performed Wed Aug 12 09:24:32 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	1.002	0.800	62.165	61.460	0.573
5FT	-0.001	0.990	0.800	62.165	61.899	0.888
S1	0.004	1.002	0.000	100.000	100.185	-0.375
S2	0.002	1.002	0.000	100.000	100.027	-0.244
S3	0.003	1.007	0.000	100.000	99.634	-0.303
S4	0.002	1.007	0.000	100.000	99.532	-0.243
S5	0.004	1.009	0.000	100.000	99.423	-0.364
S6	0.002	1.009	0.000	100.000	99.323	-0.242
S7	0.004	0.998	0.000	100.000	100.579	-0.357
S8	0.003	1.000	0.000	100.000	100.340	-0.315

Temperature Calibration Report					
		Serial Number:		10025095	
		Tool Model:		UW_PRT_016	
		Performed:		Wed Feb 11 13:43:20 2015	
Point #	Reading			Reference	
1	12798.00	cps		68.00	degF
2	18136.00	cps		104.00	degF
3	29513.00	cps		176.00	degF
4	40905.00	cps		248.00	degF
5	52487.00	cps		320.00	degF
6	58362.00	cps		356.00	degF
7		cps			degF
8		cps			degF
9		cps			degF
10		cps			degF

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 & Gas Onshore, L.P.
	Well	Badger State 32C-3HZ
	Field	Wattenberg
	County	Weld
	State	Colorado