



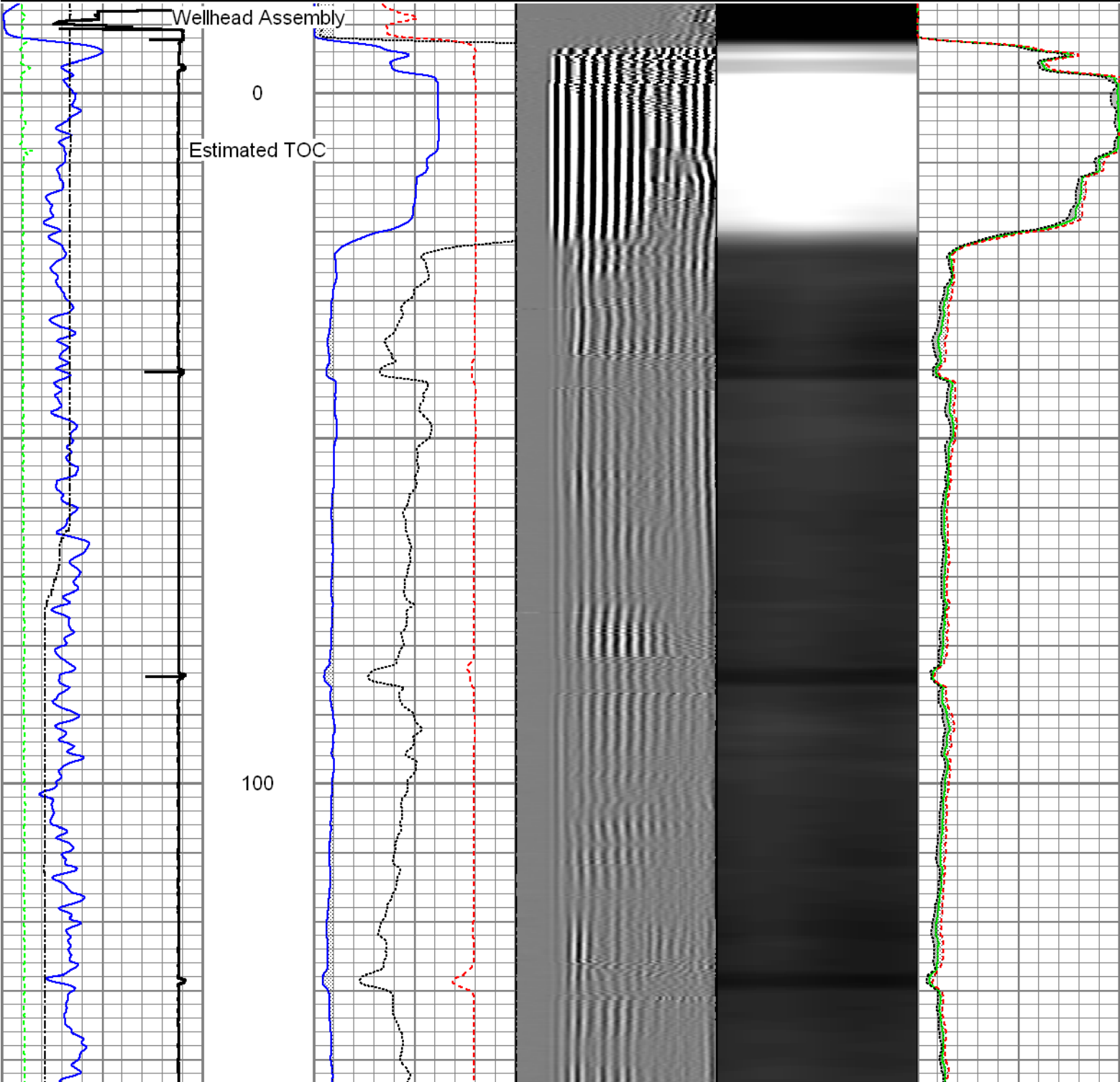
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 reference to Casing Tally reported liner top at 6440 FT. Adjusted -25 FT to correlate to liner top. Log ran as deep as possible to surface. Log ran with 2800 PSI surface induced pressure.
Thank you for choosing FMC Technologies Completion Services, Inc.!!

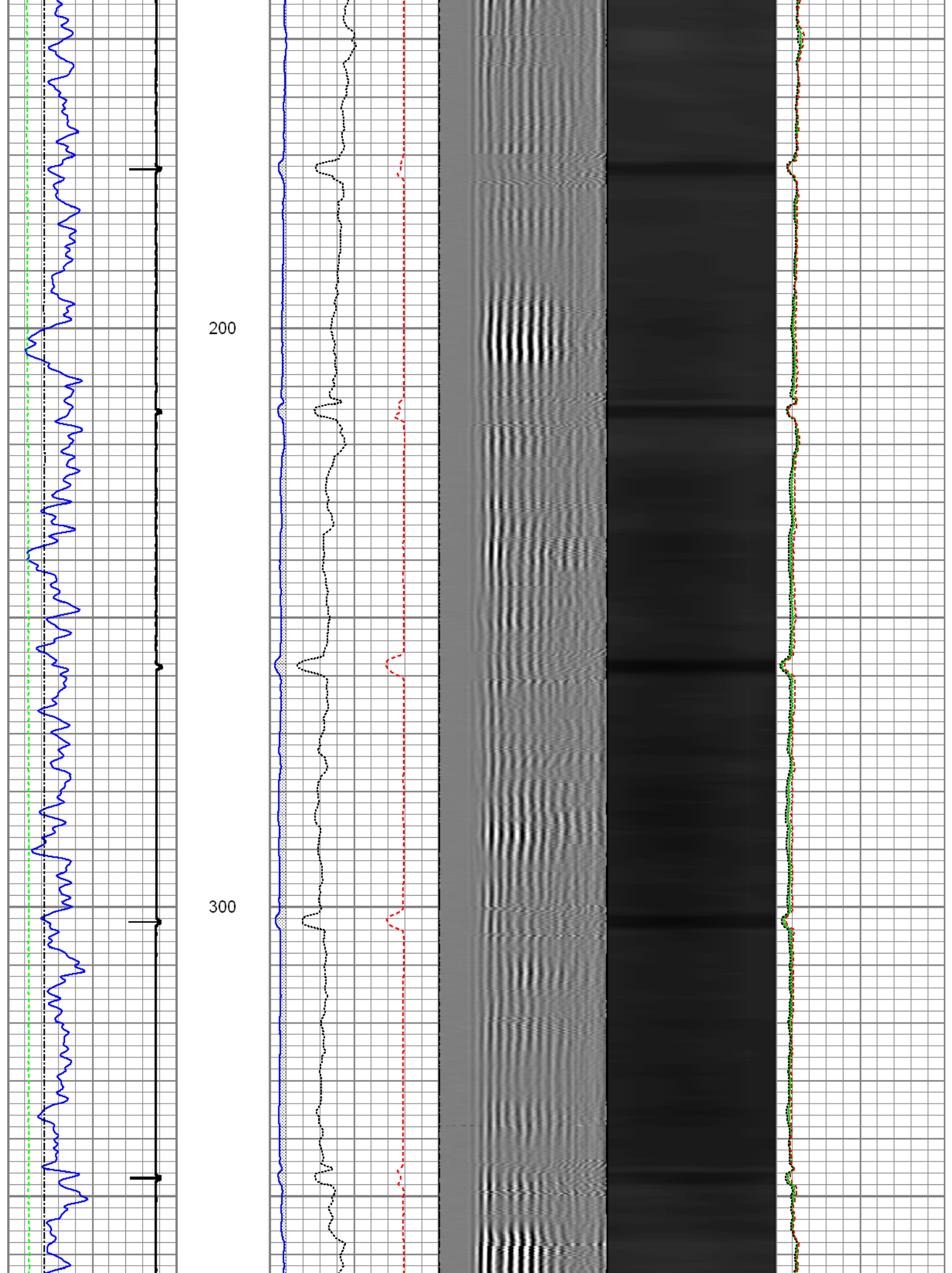


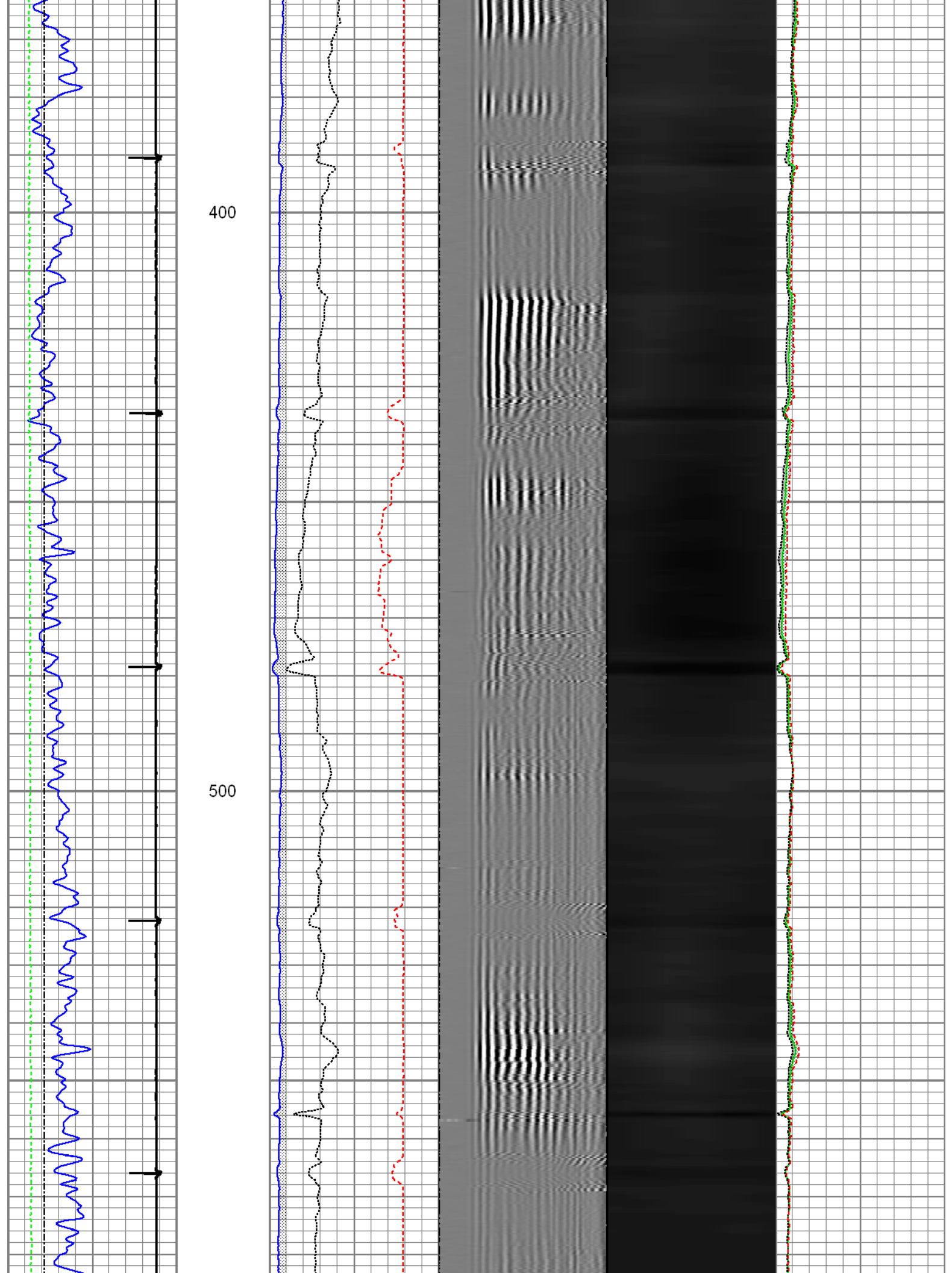
Logged With 2800 PSI Surface Induced Pressure

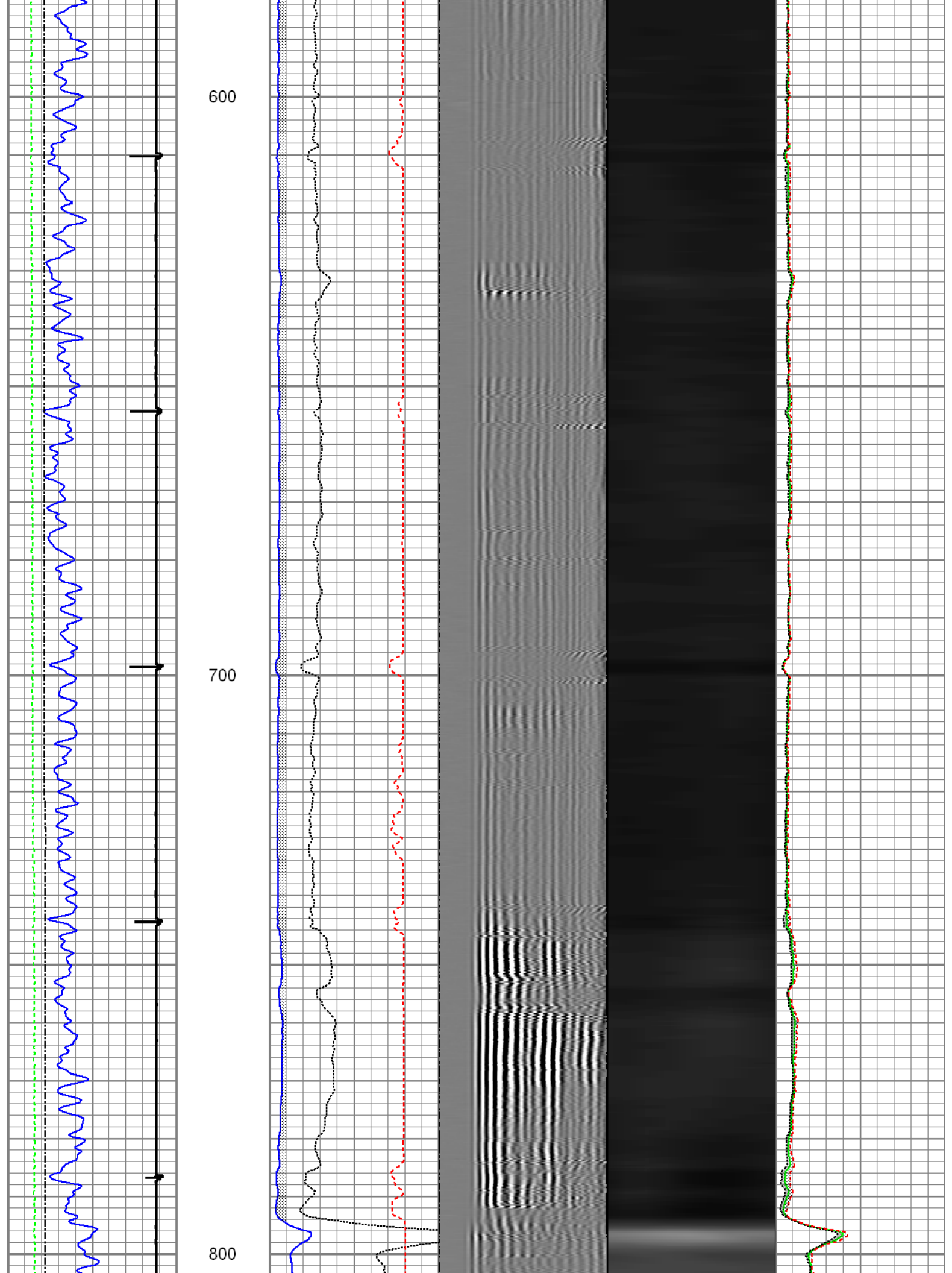
Database File: c:\warrior\data\old\0512337916_anadarko_greenleaf 36n-15hz_01-24-15_mit_rbl.db
Dataset Pathname: main.1
Presentation Format: rbt4_mit
Dataset Creation: Mon Jan 26 13:39:27 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

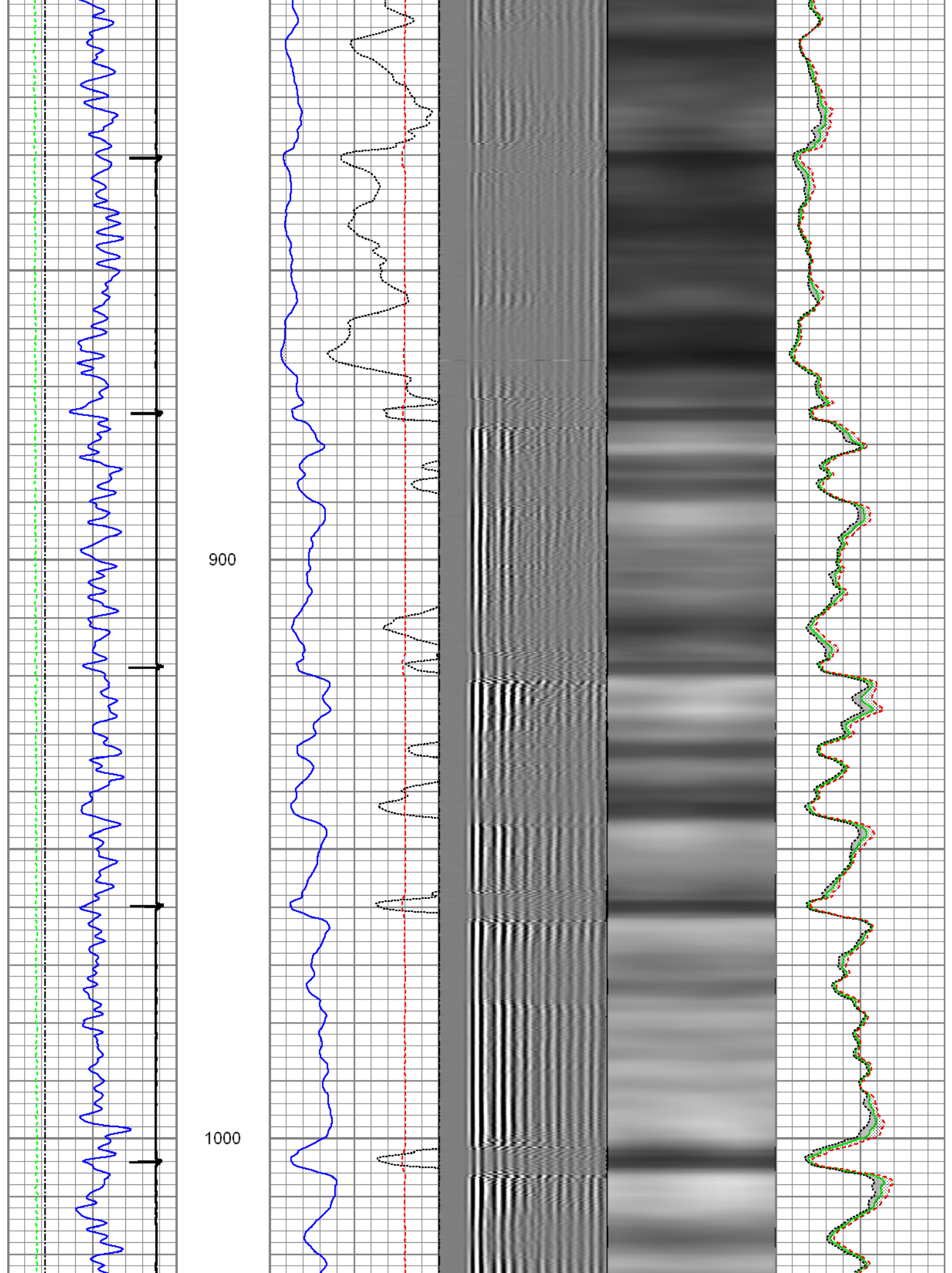
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Line Speed	3' Amplitude x 5			Minimum Amplitude
-100 (ft/min) 100	0 (mV) 20			0 100
Line Tension	3' Travel Time			Maximum Amplitude
0 (lb) 2000	650 (usec) 150			0 100
Casing Collar Locator				

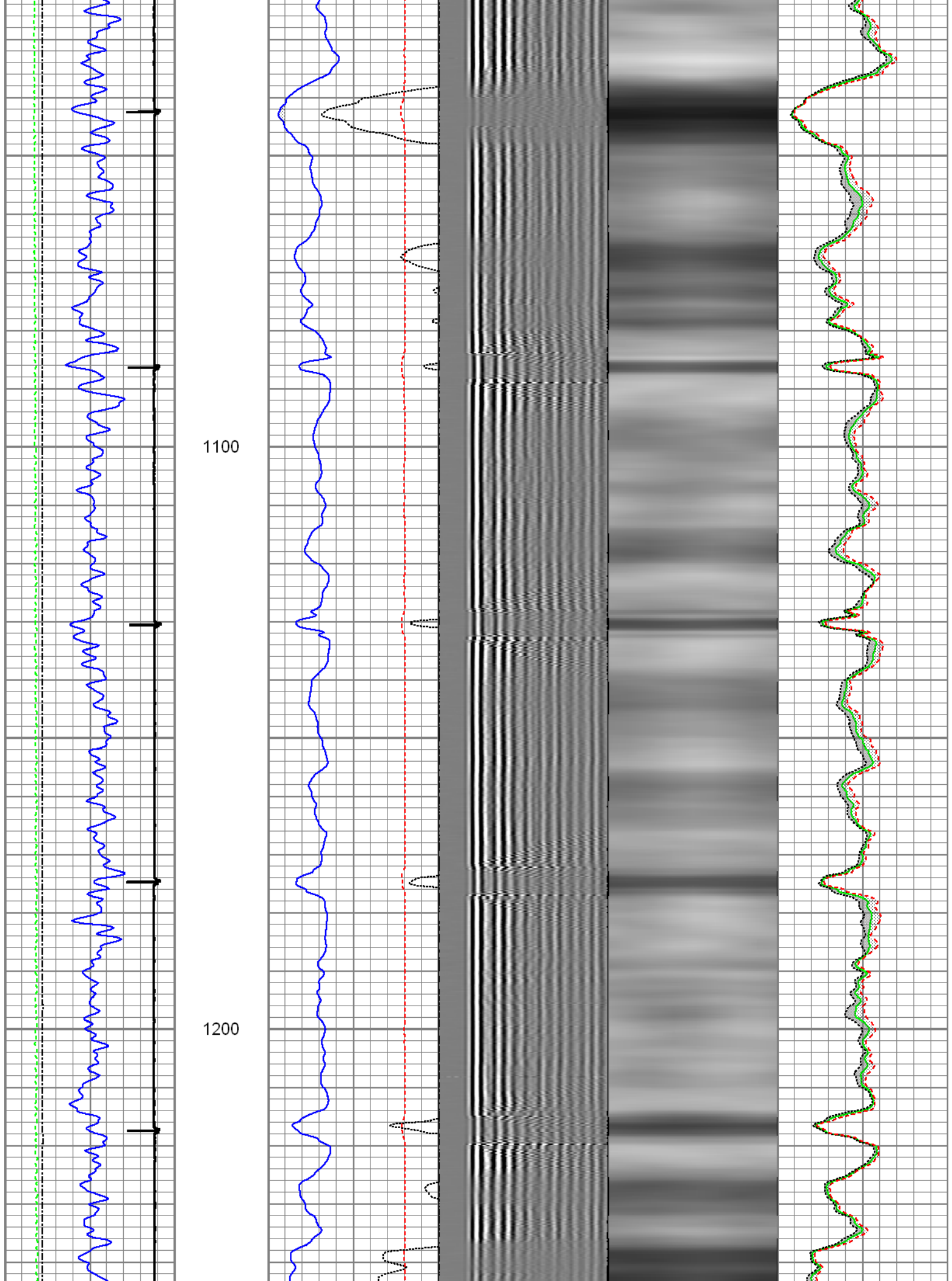


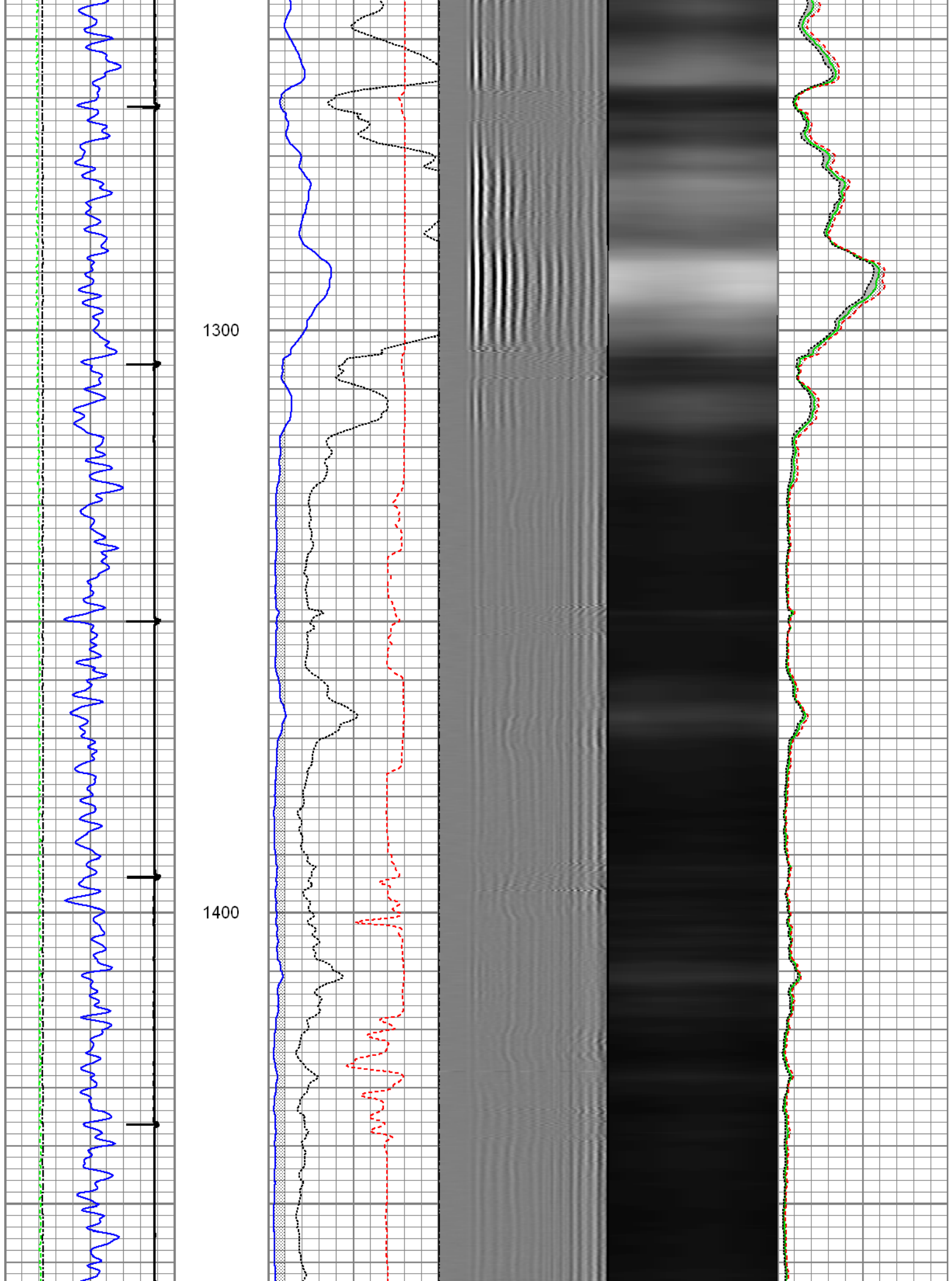


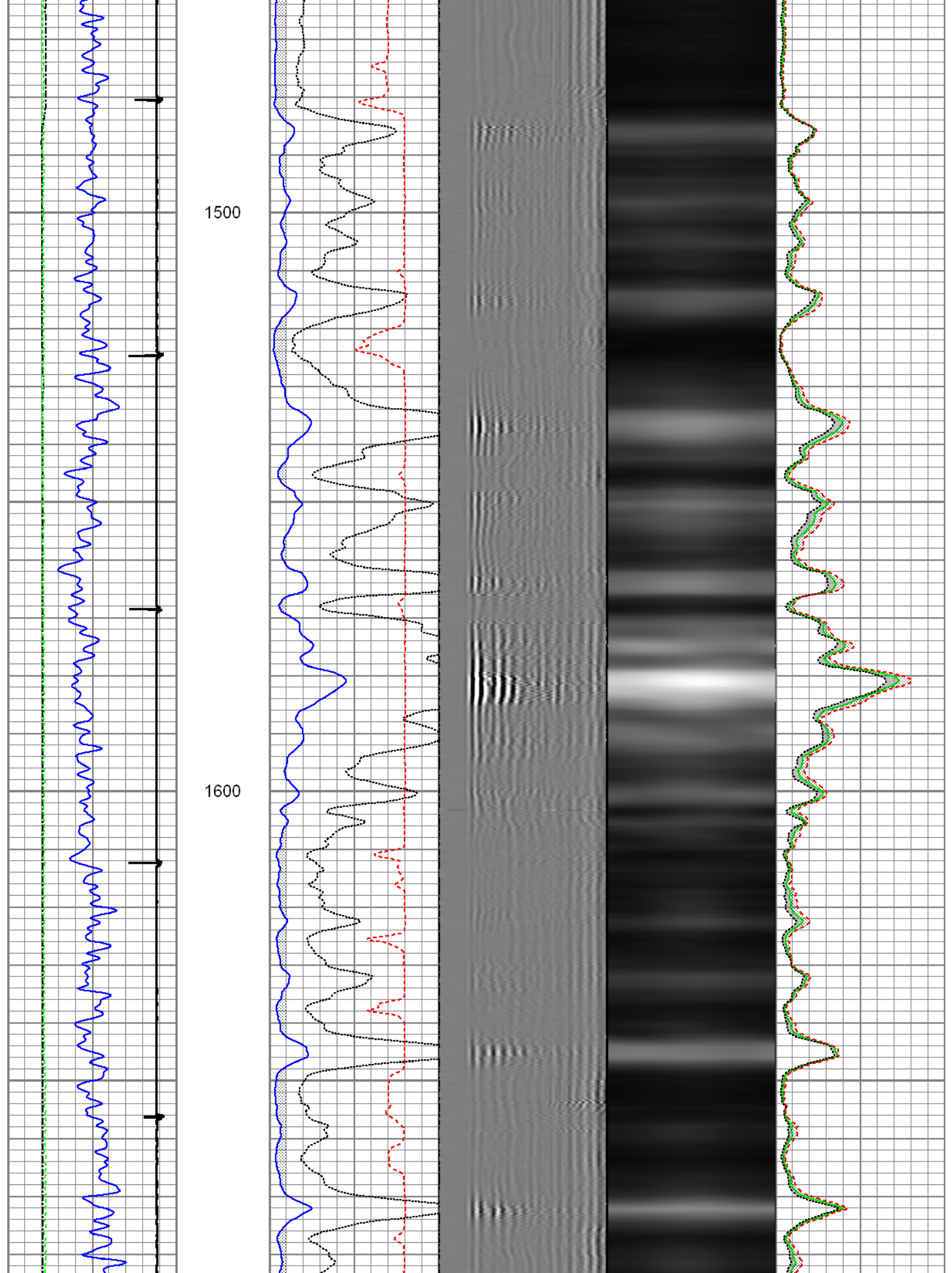


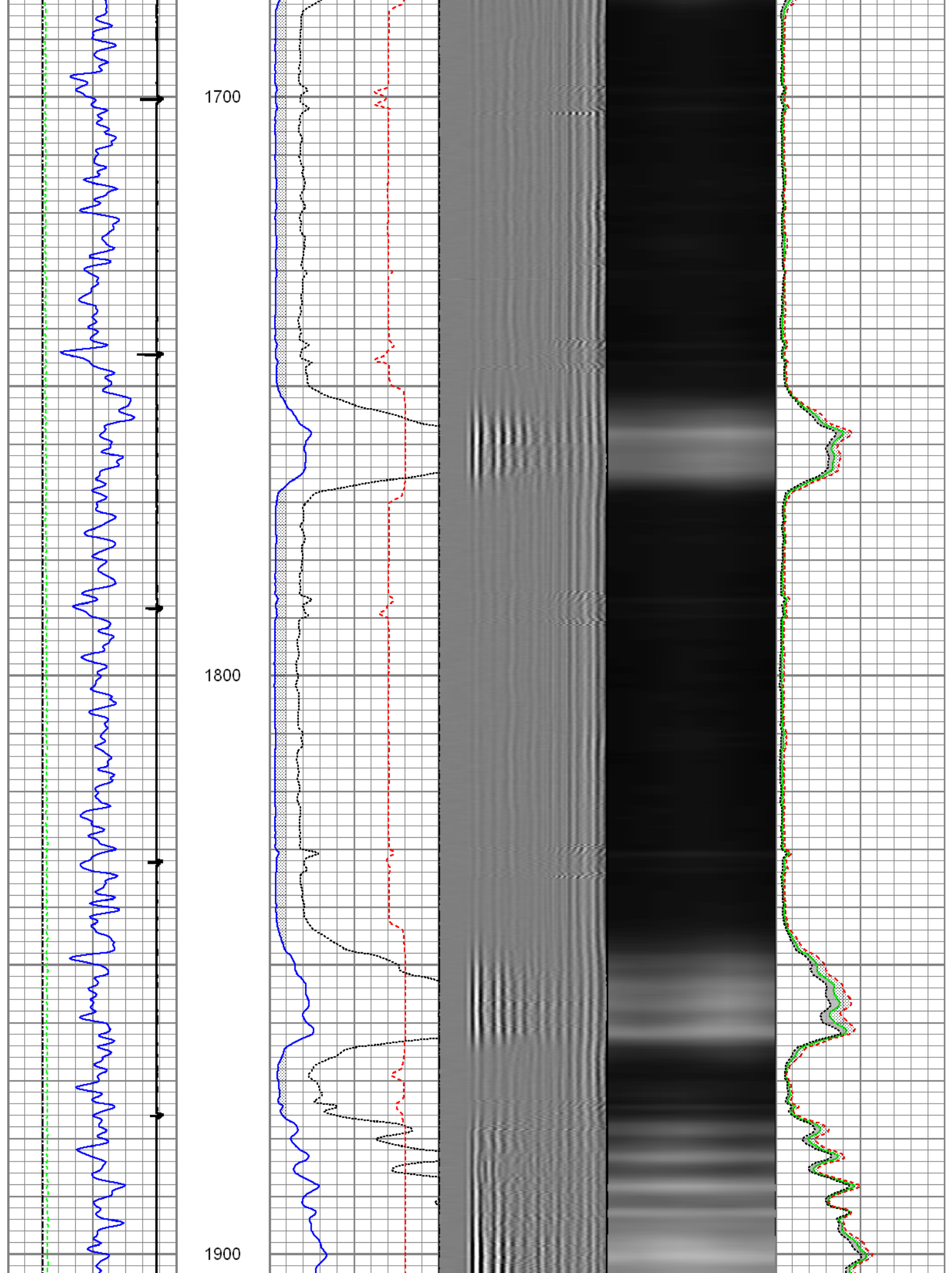


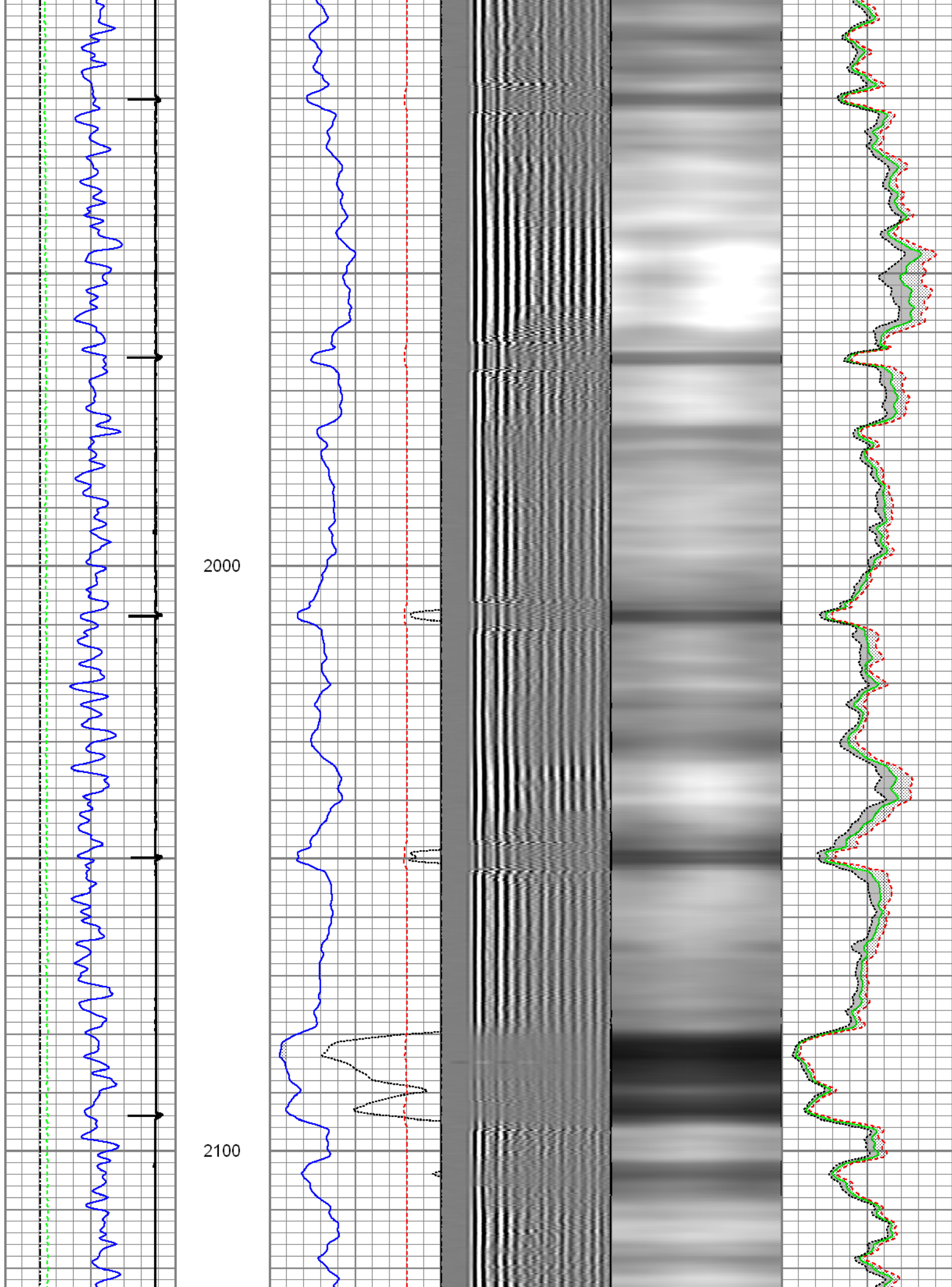


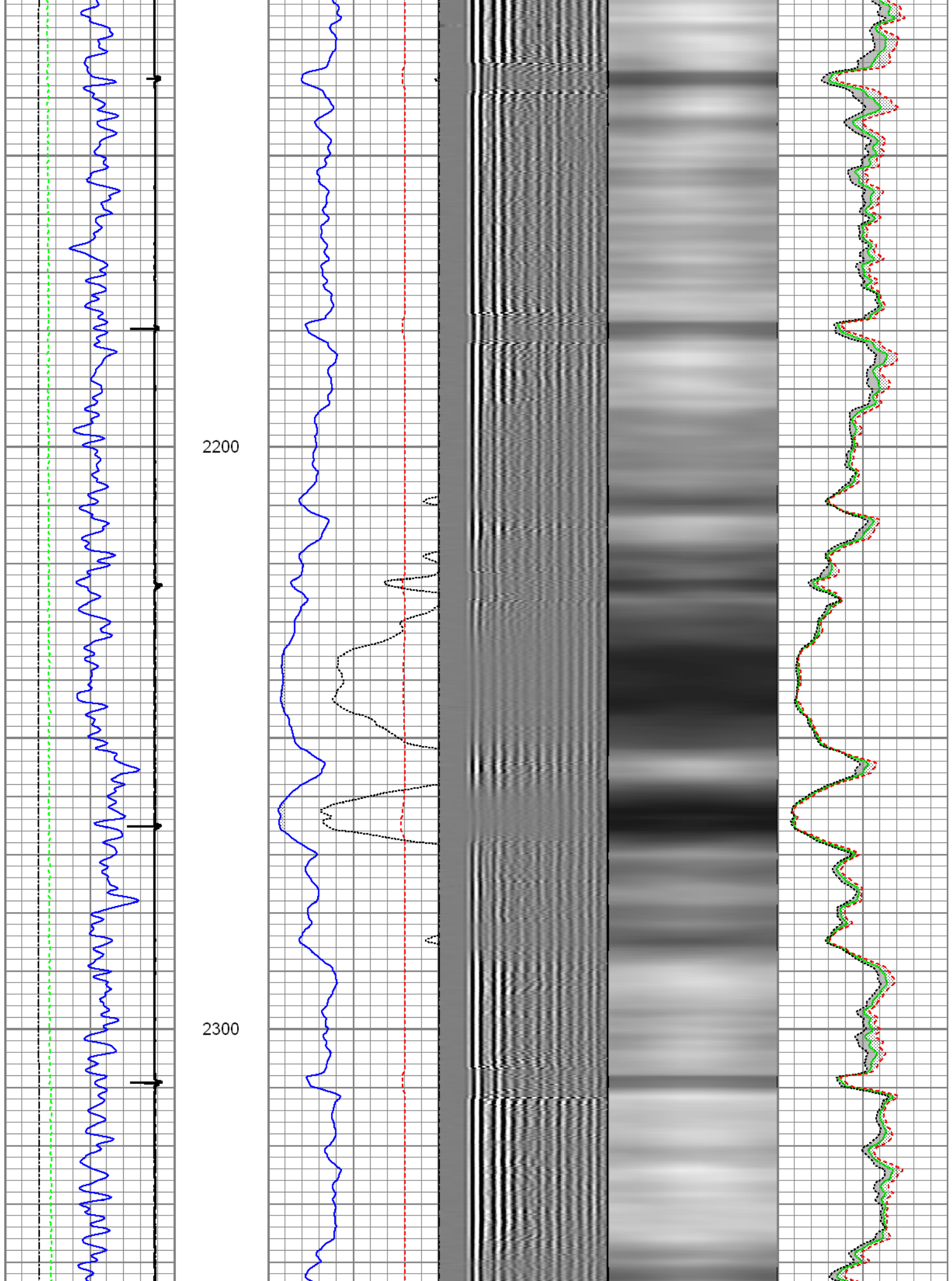


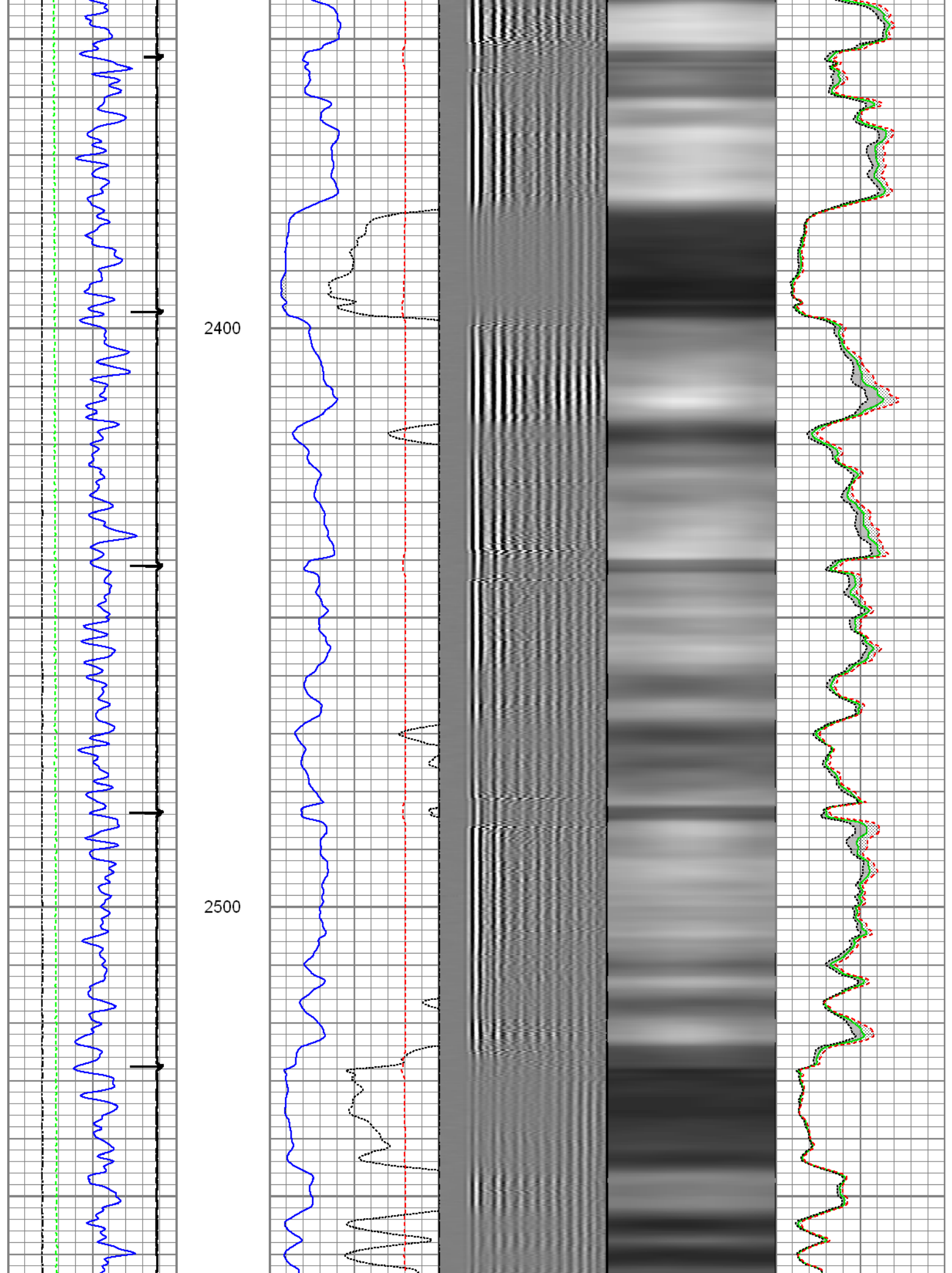


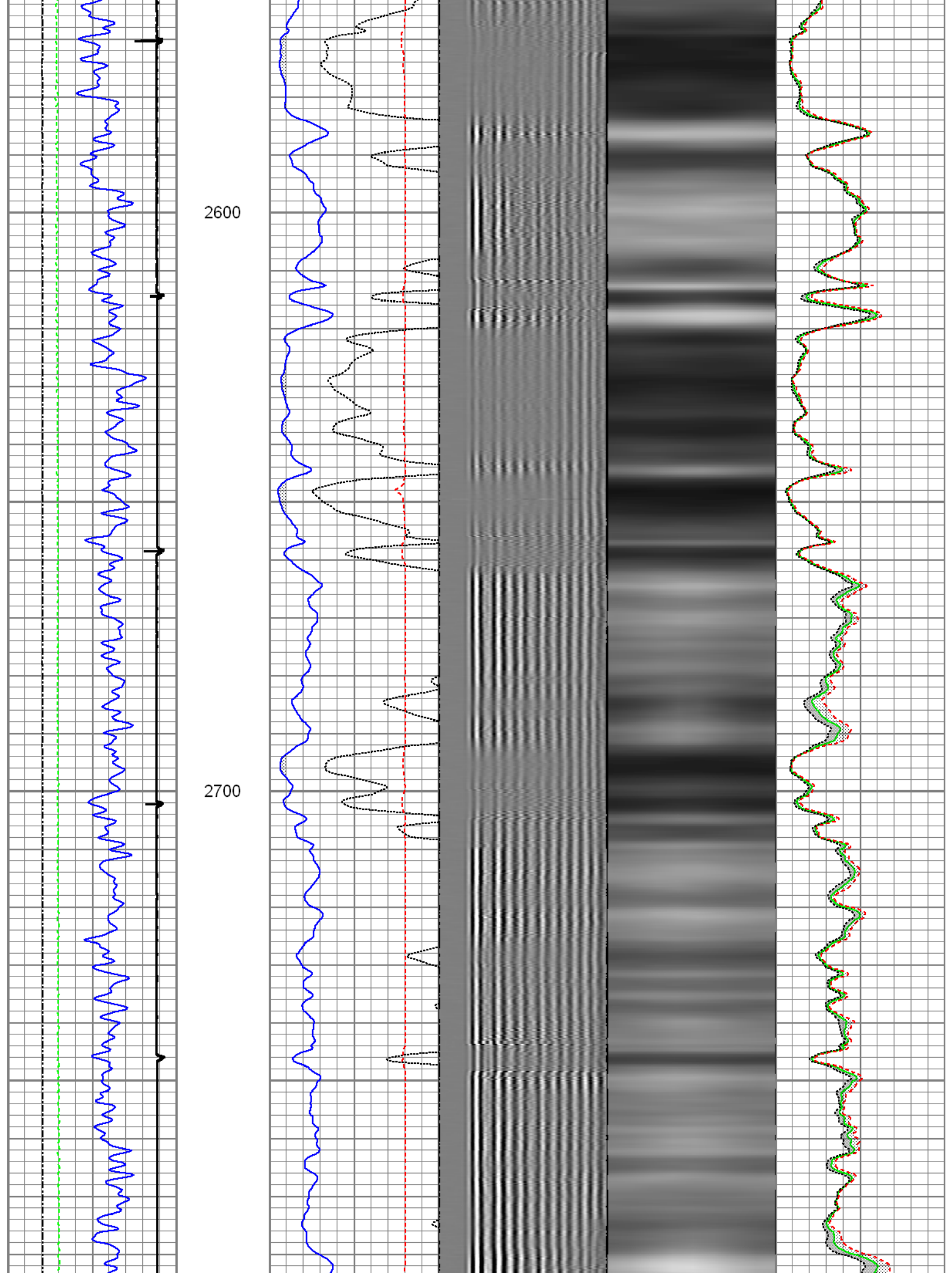


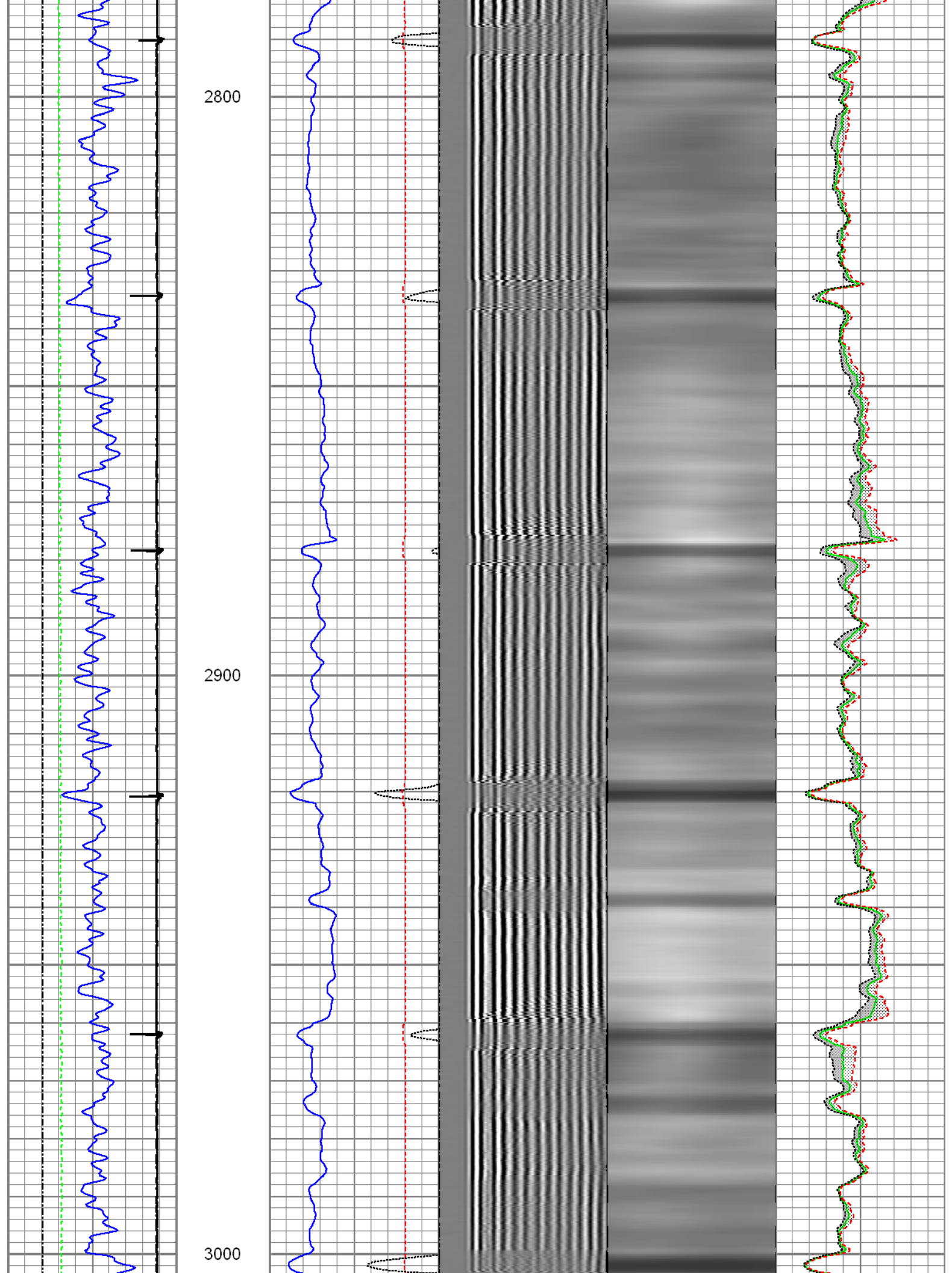


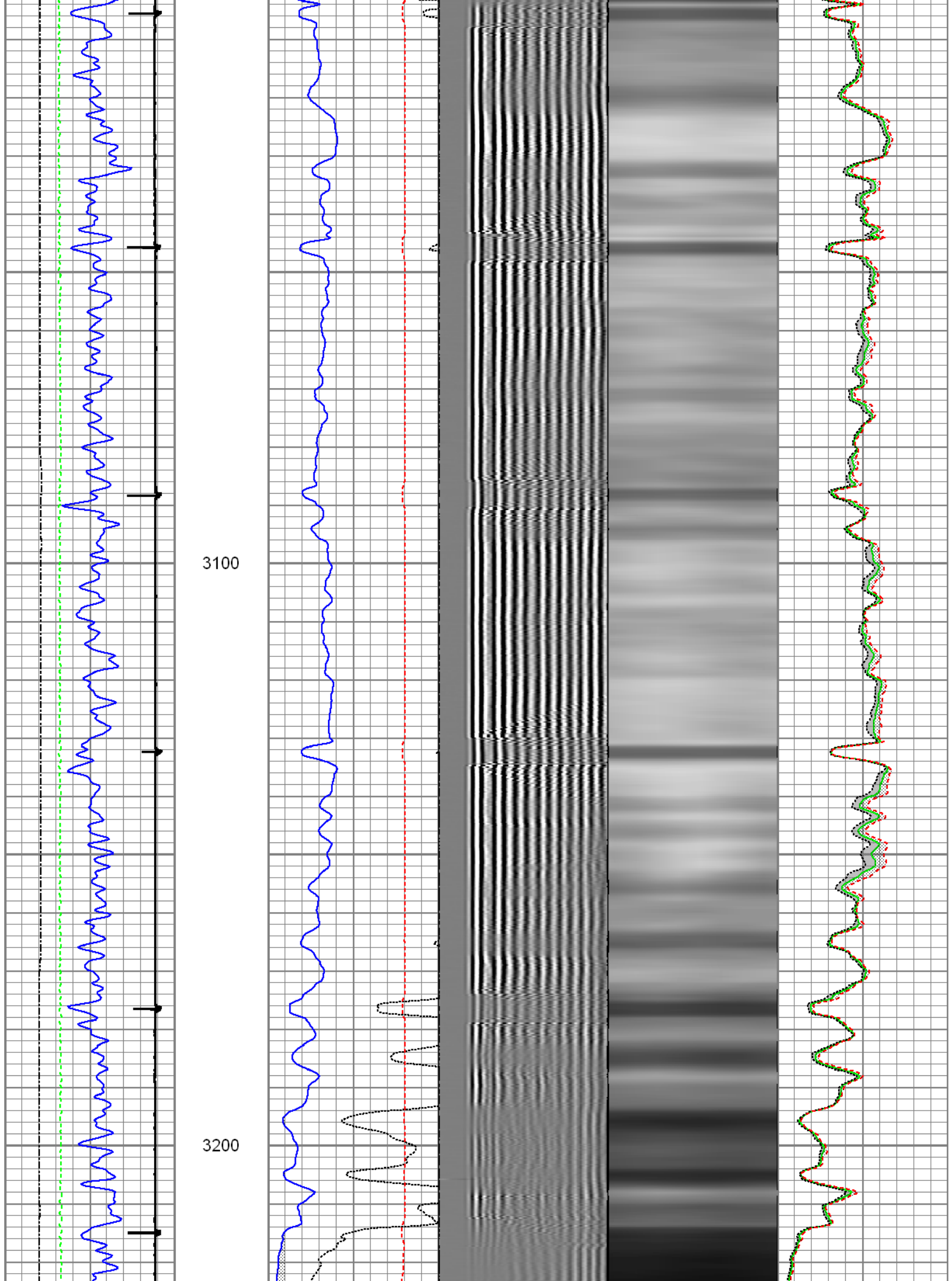


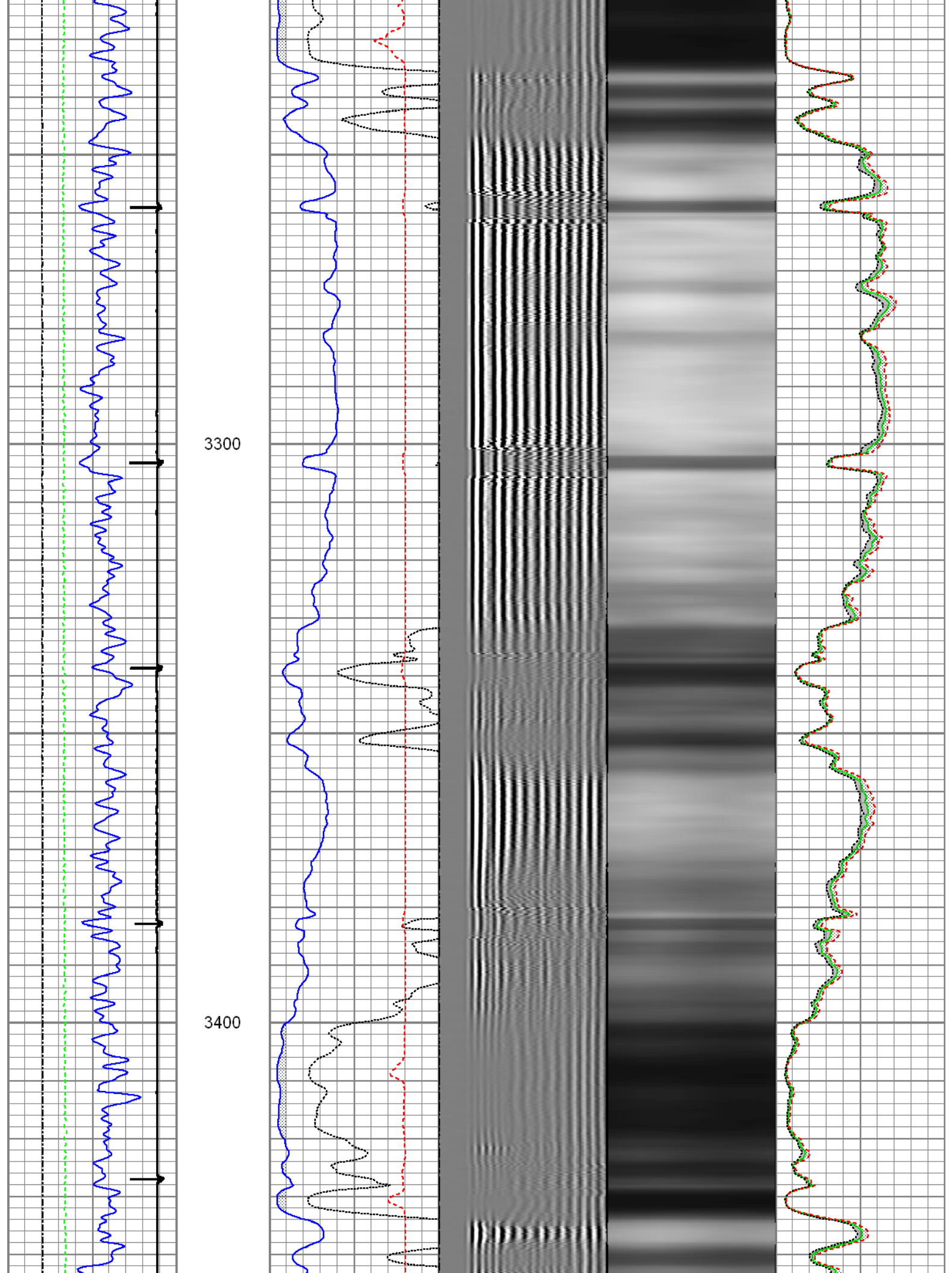


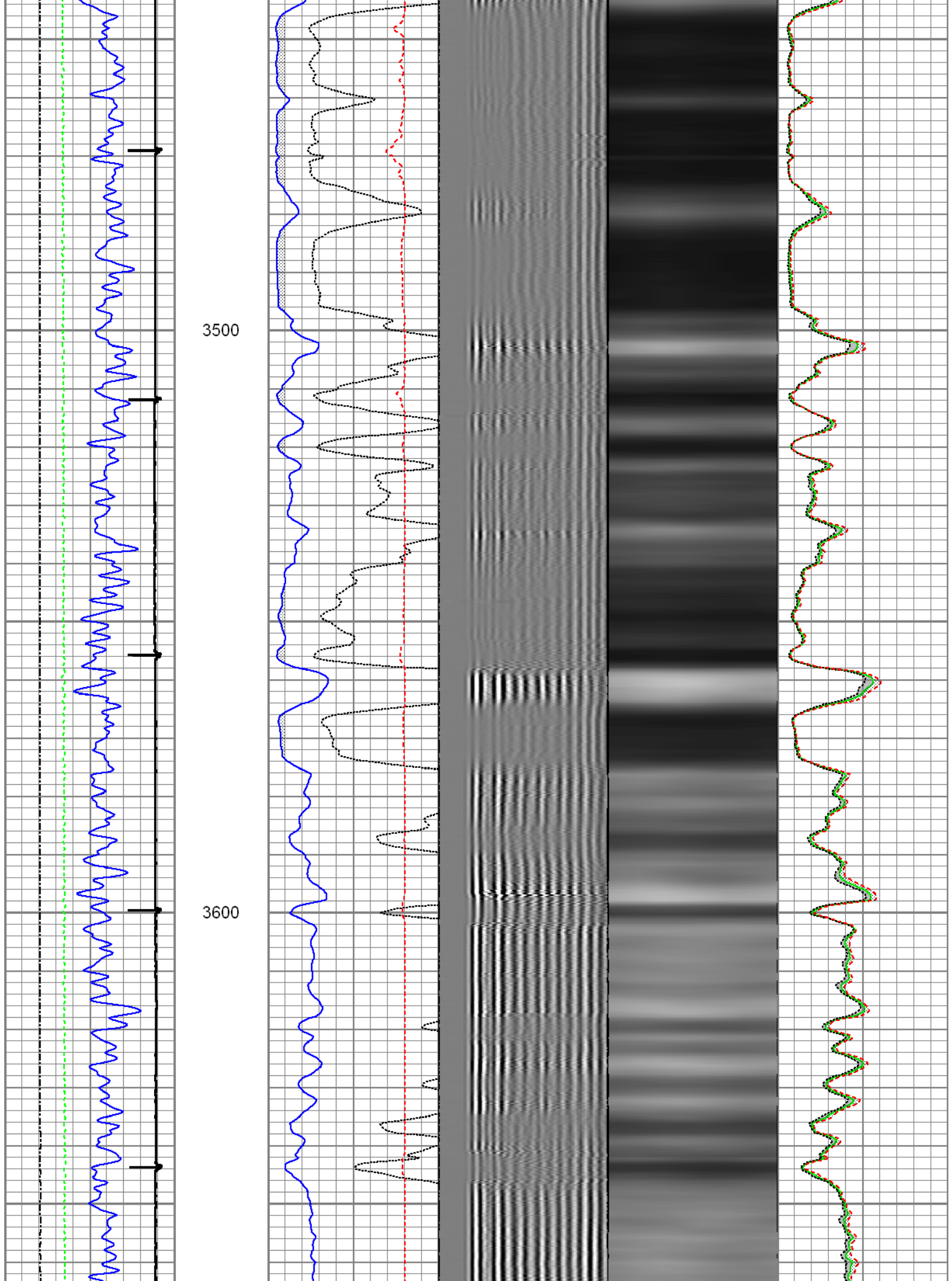


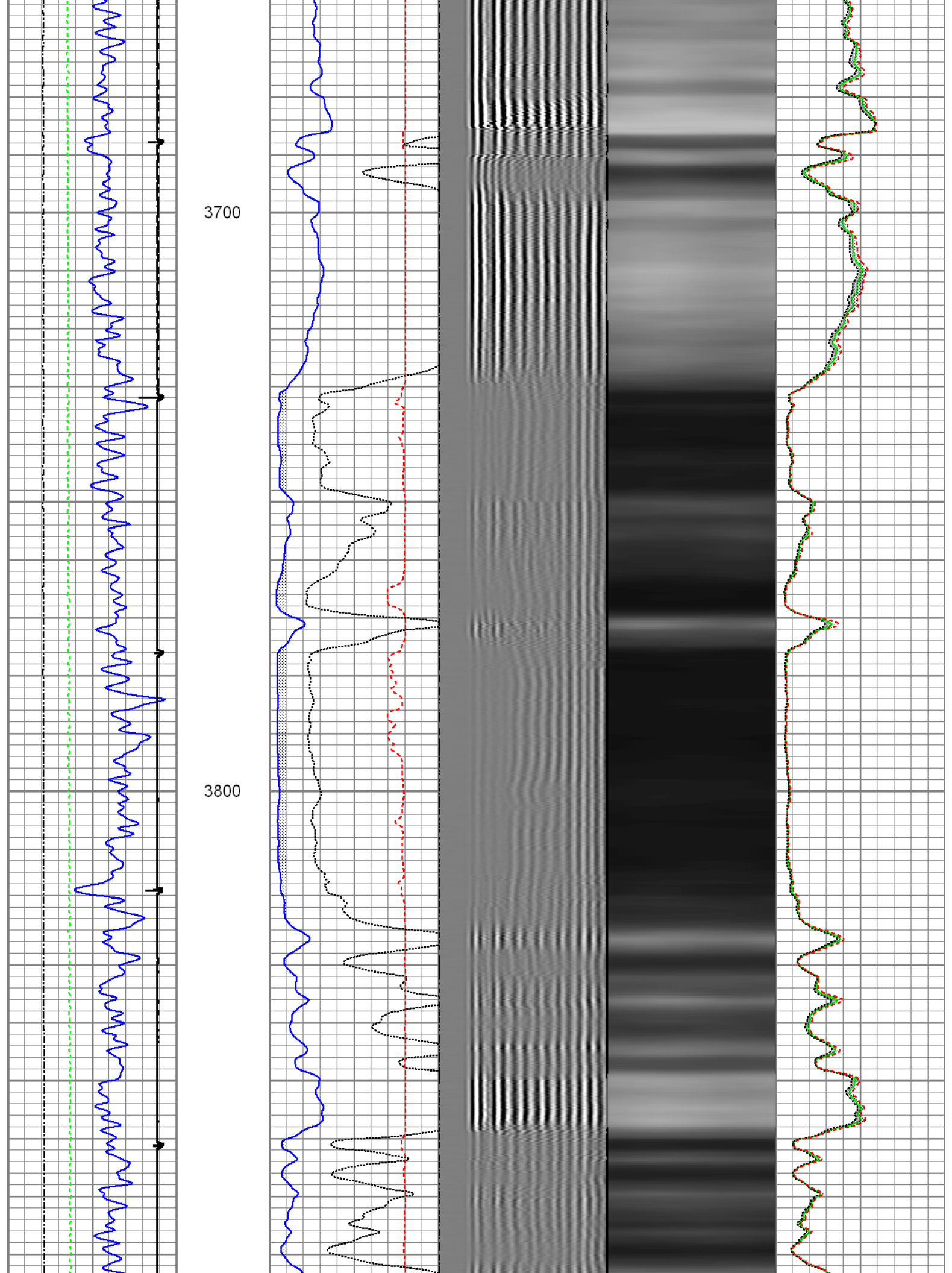


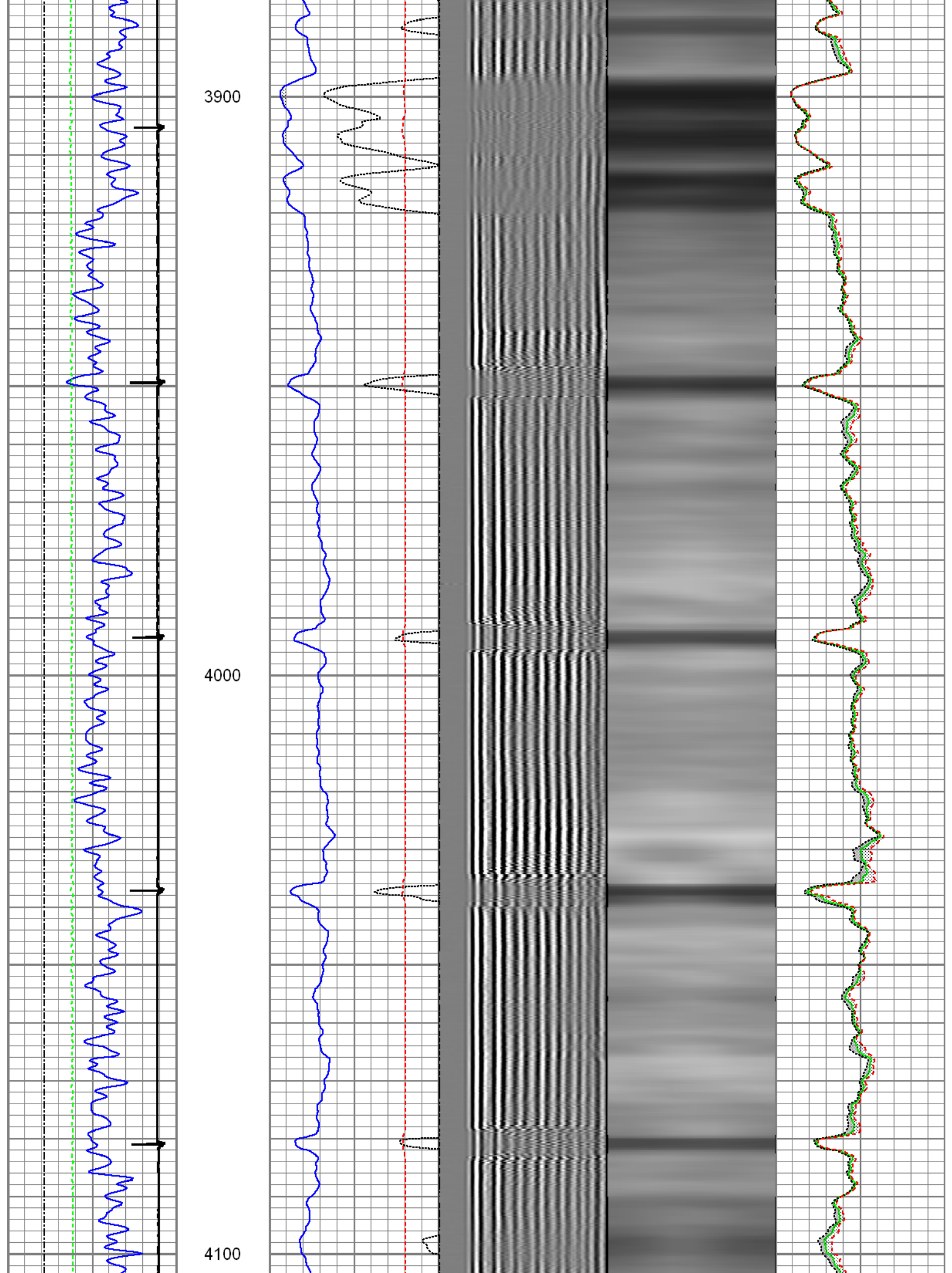


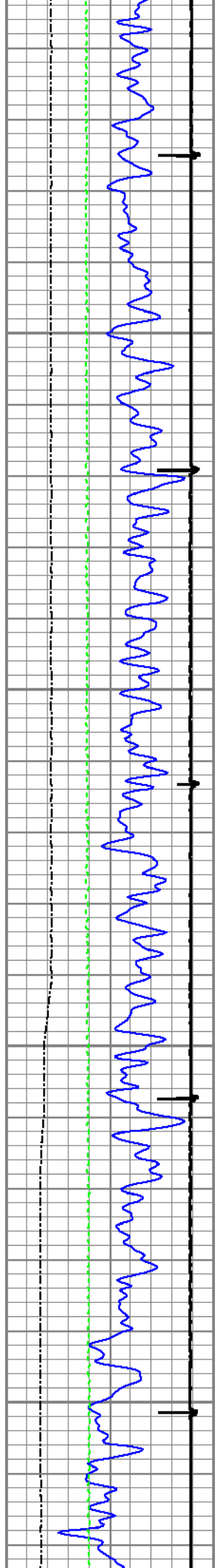






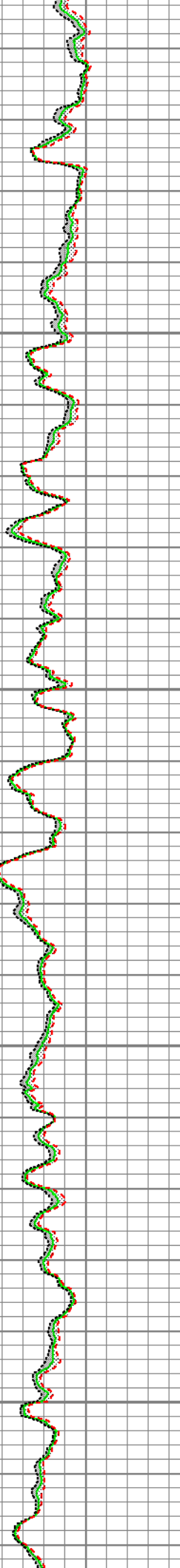
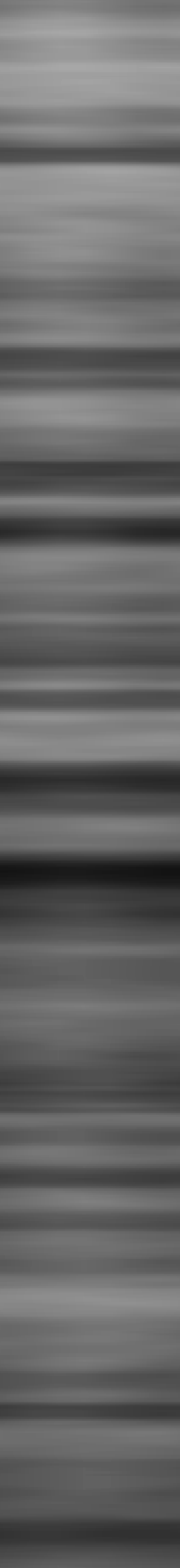
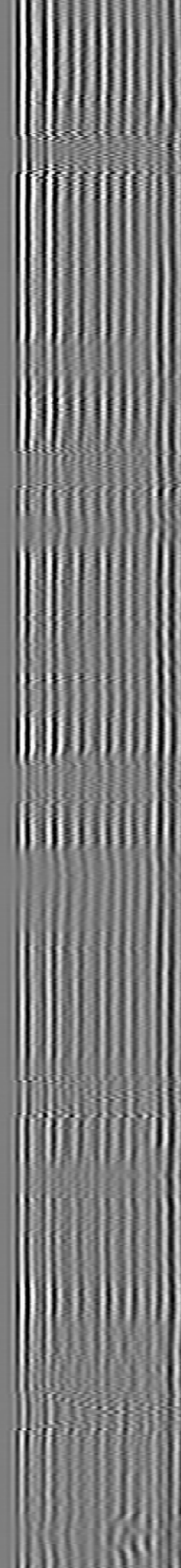
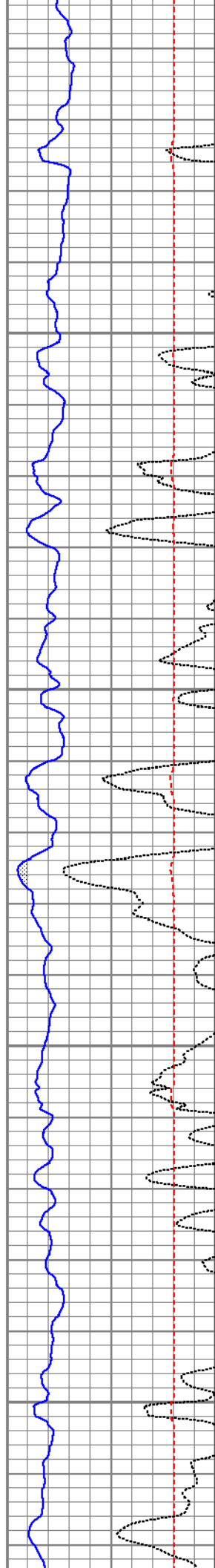


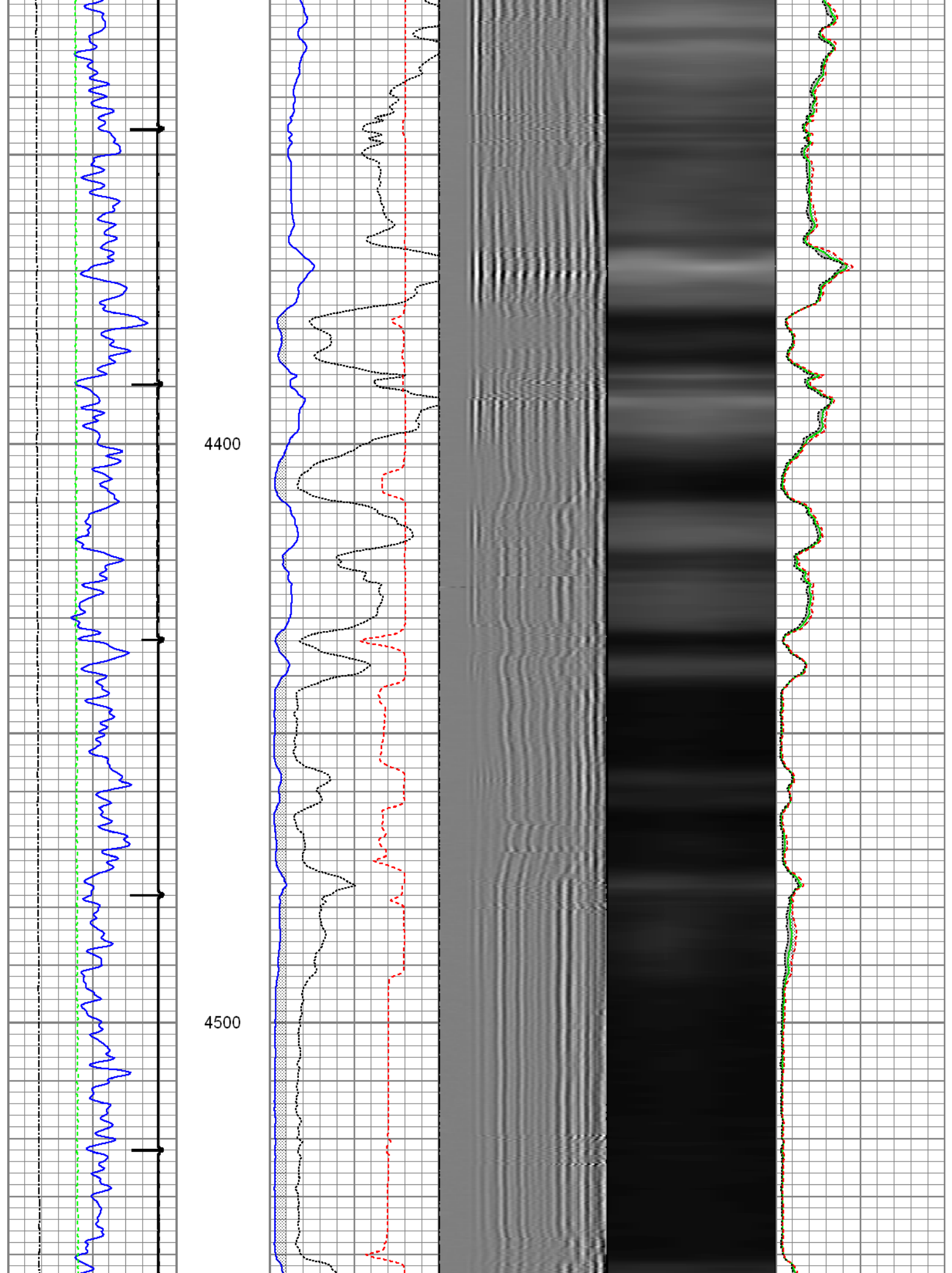


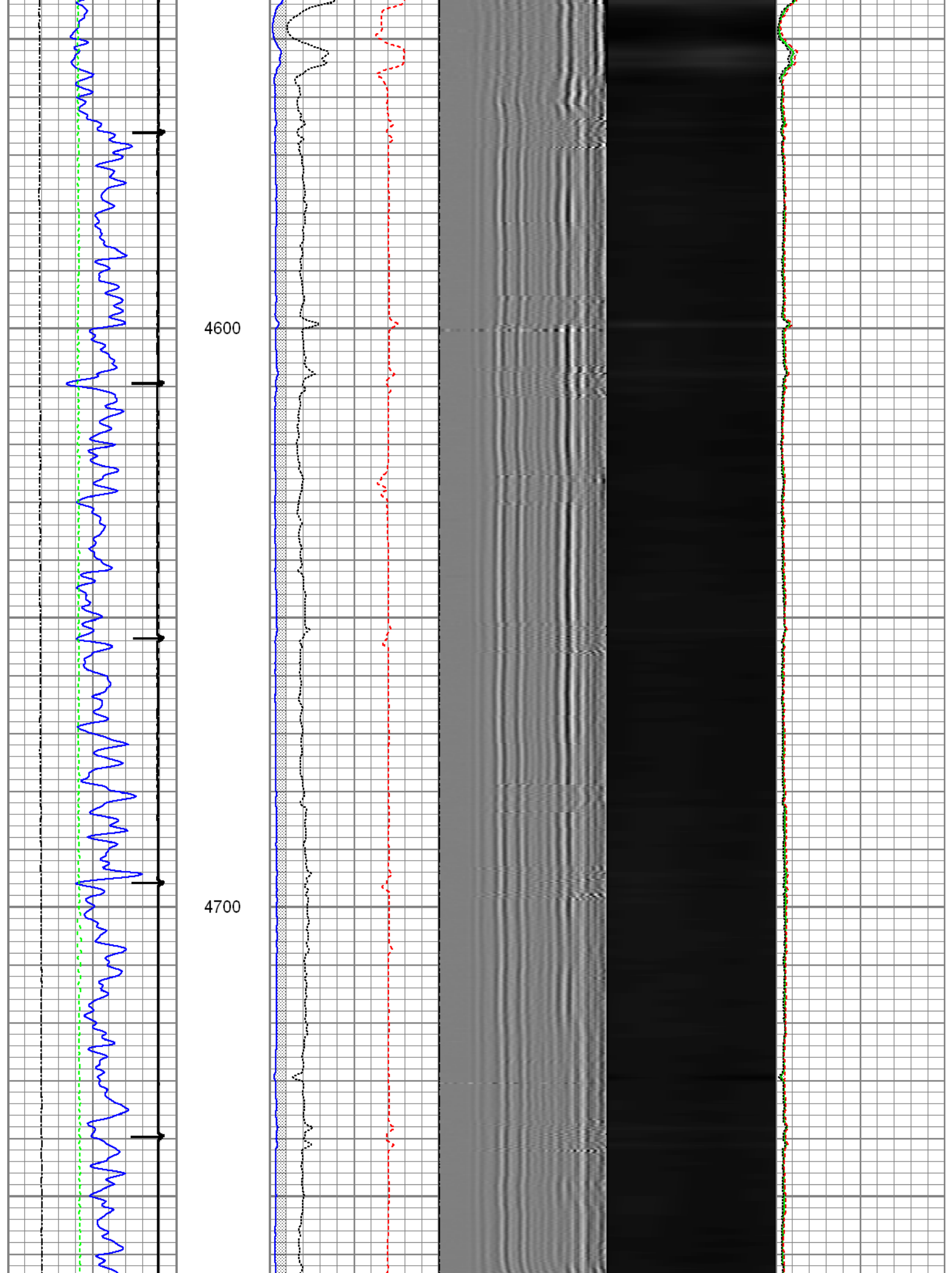


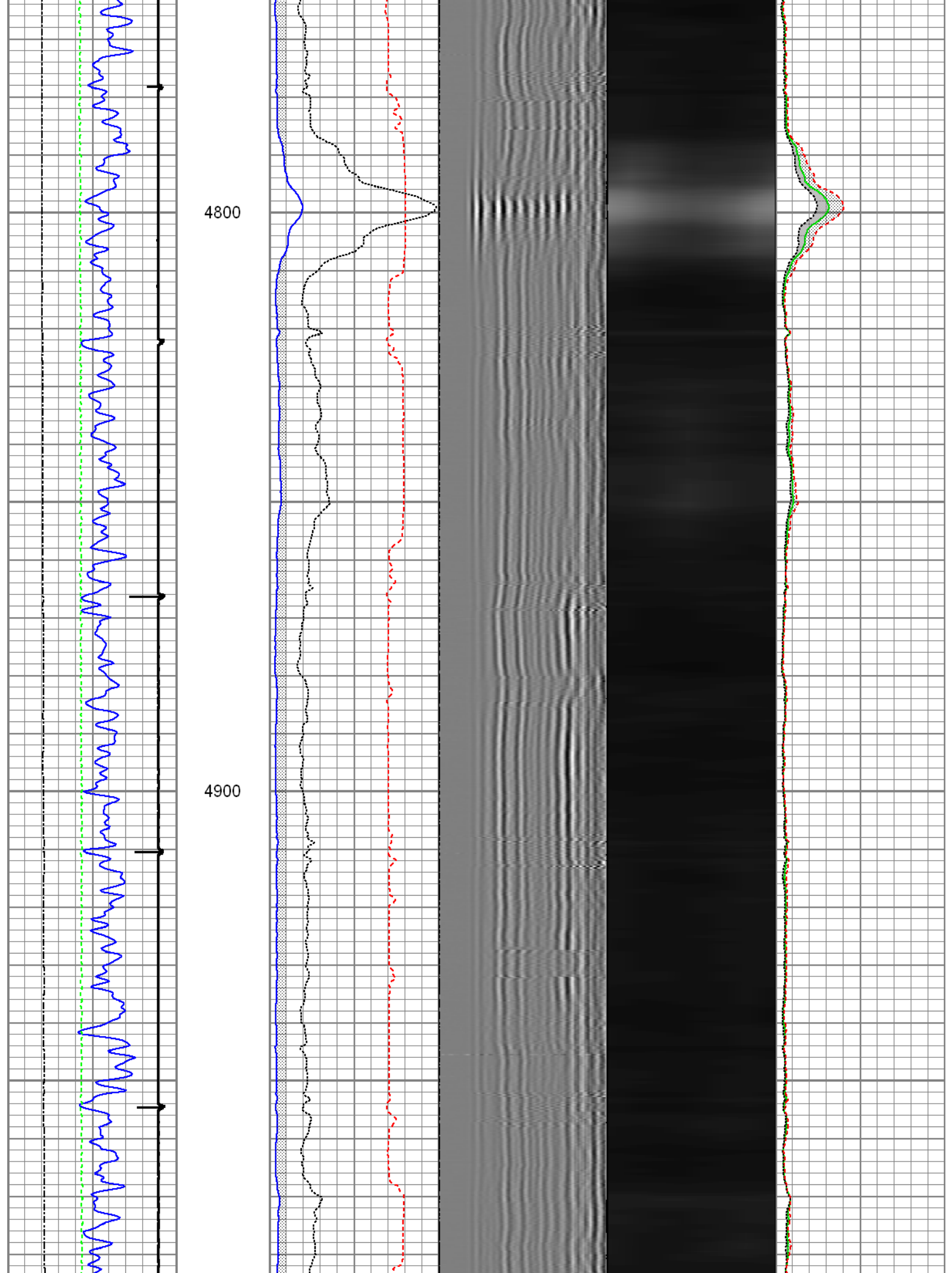
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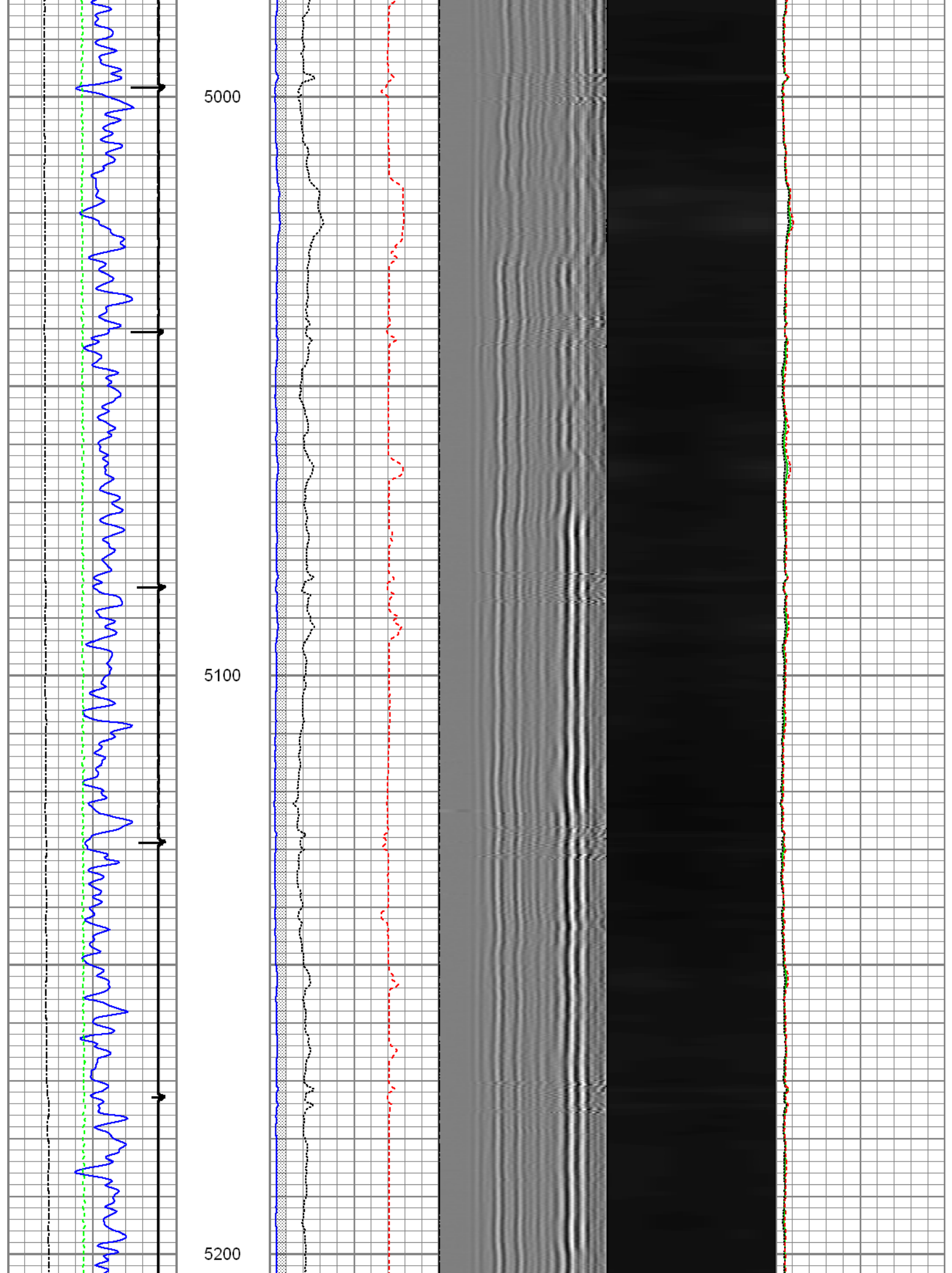
4300

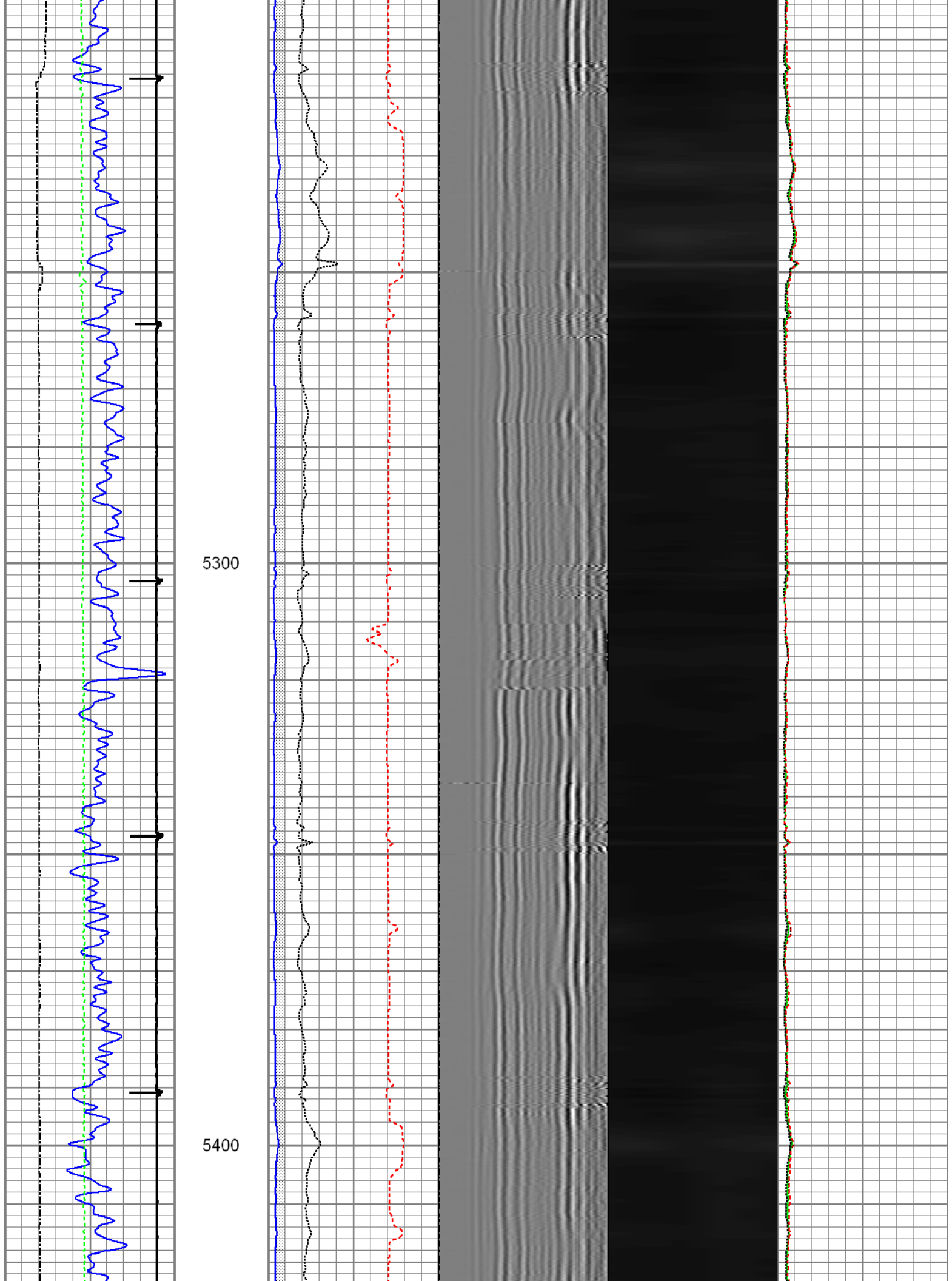


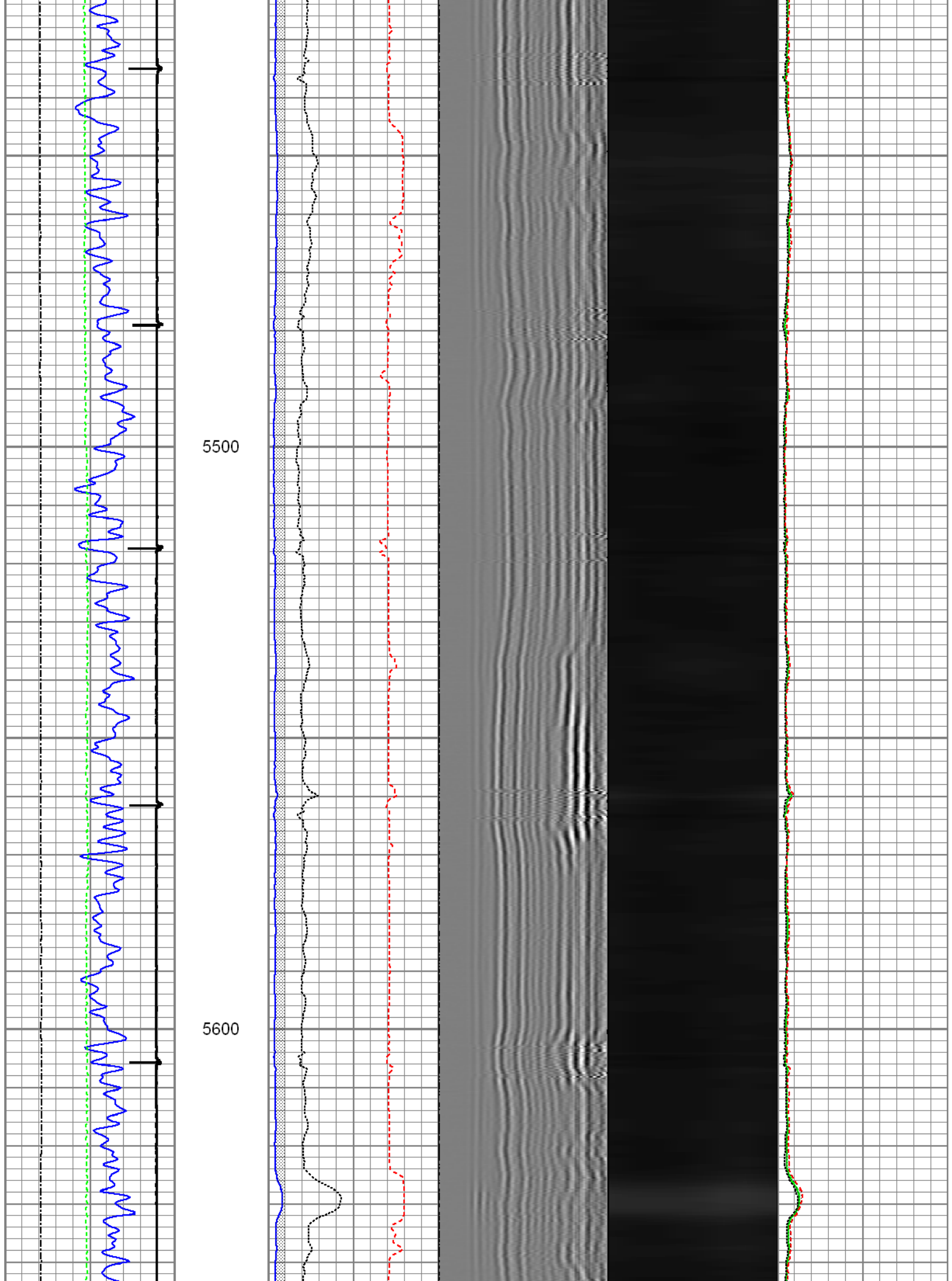


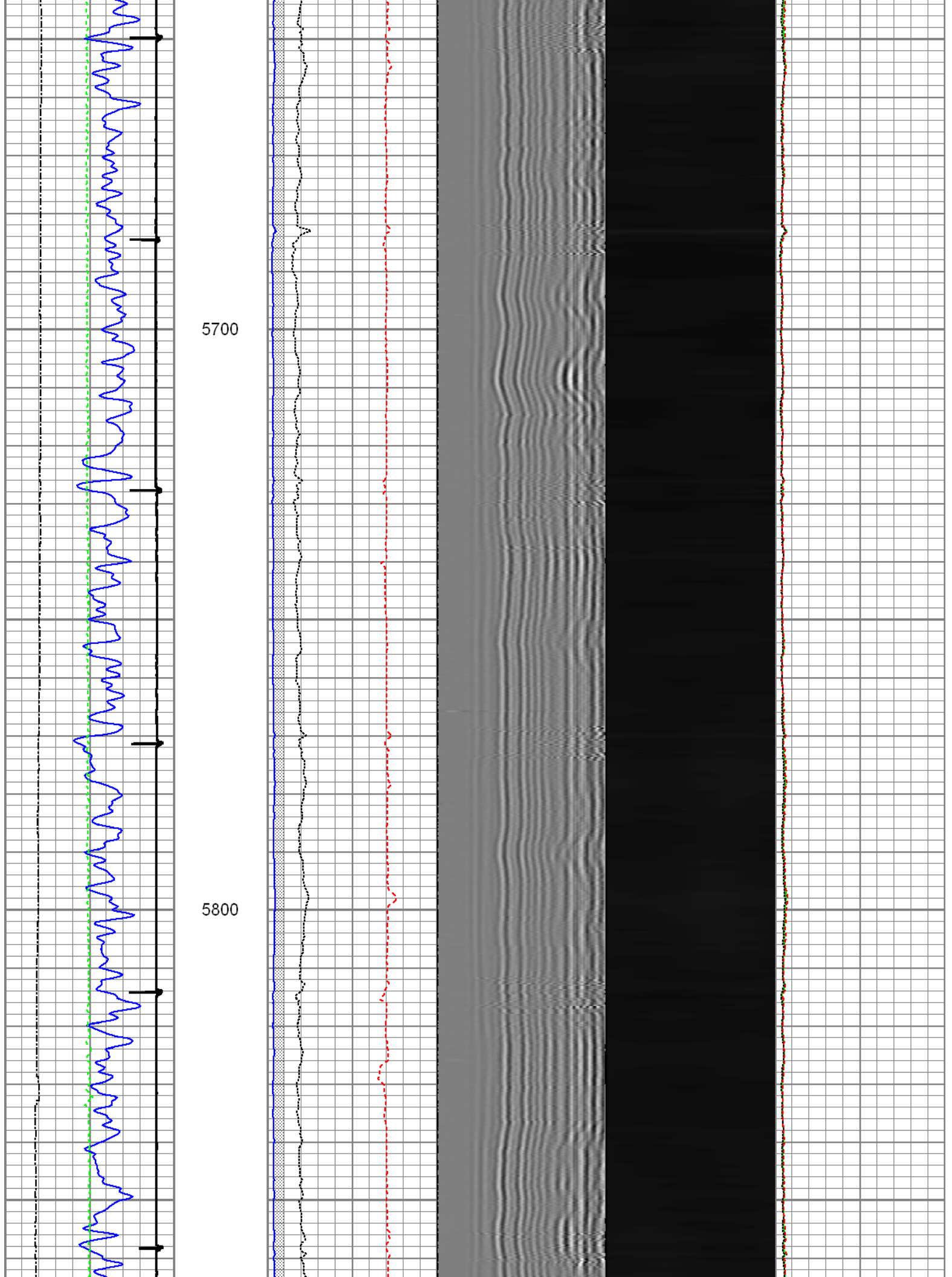


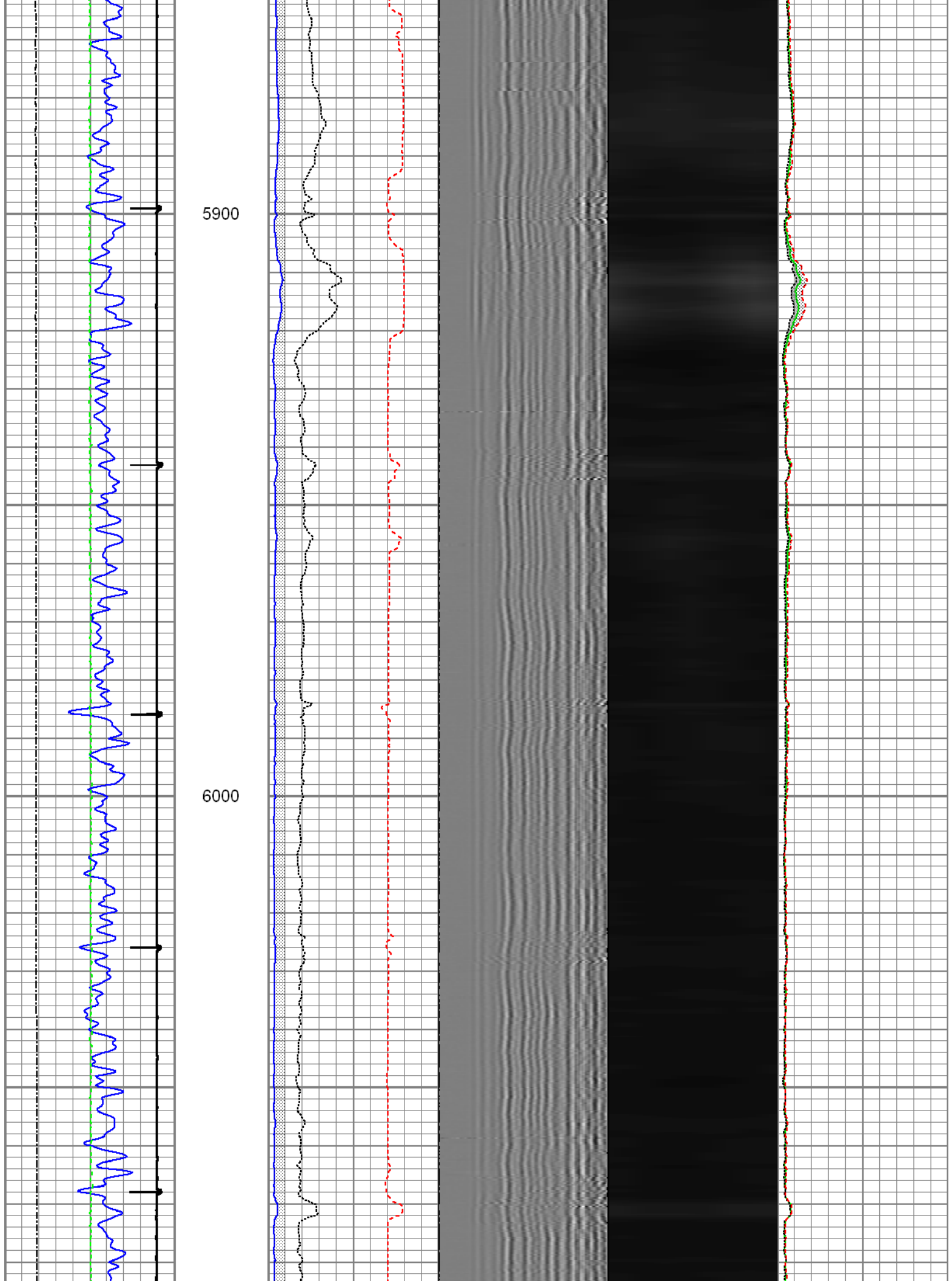








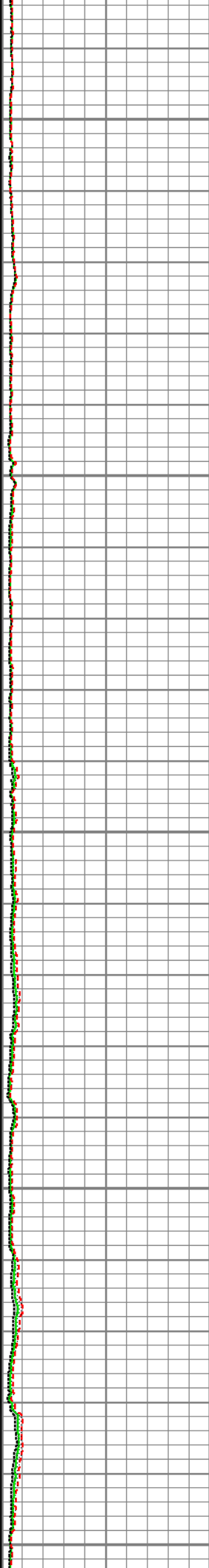
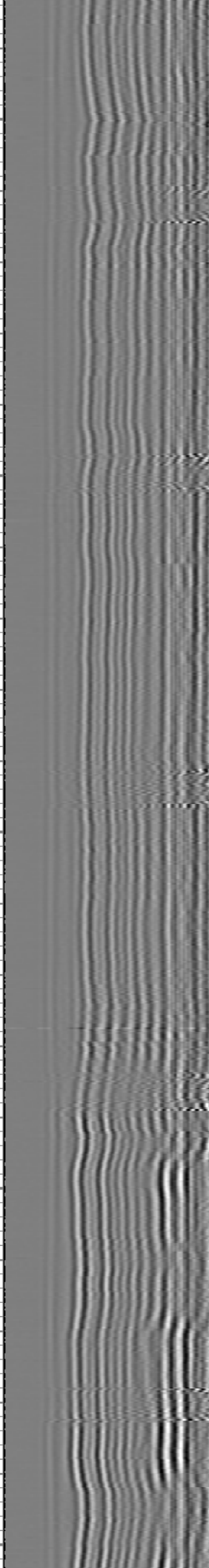
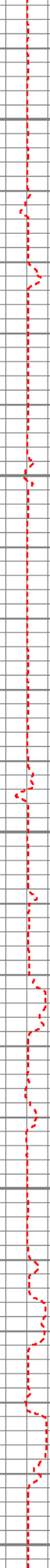
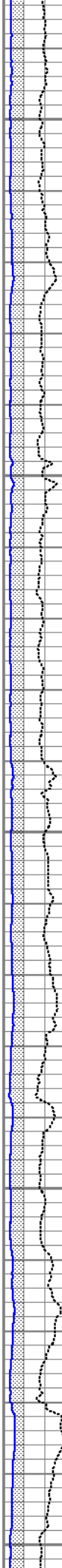
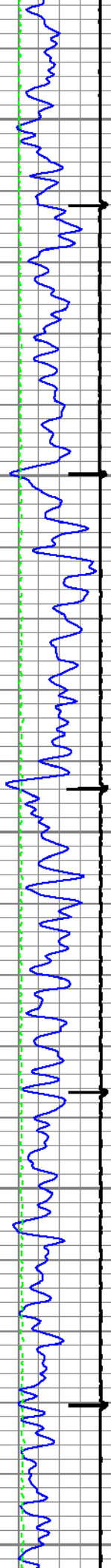


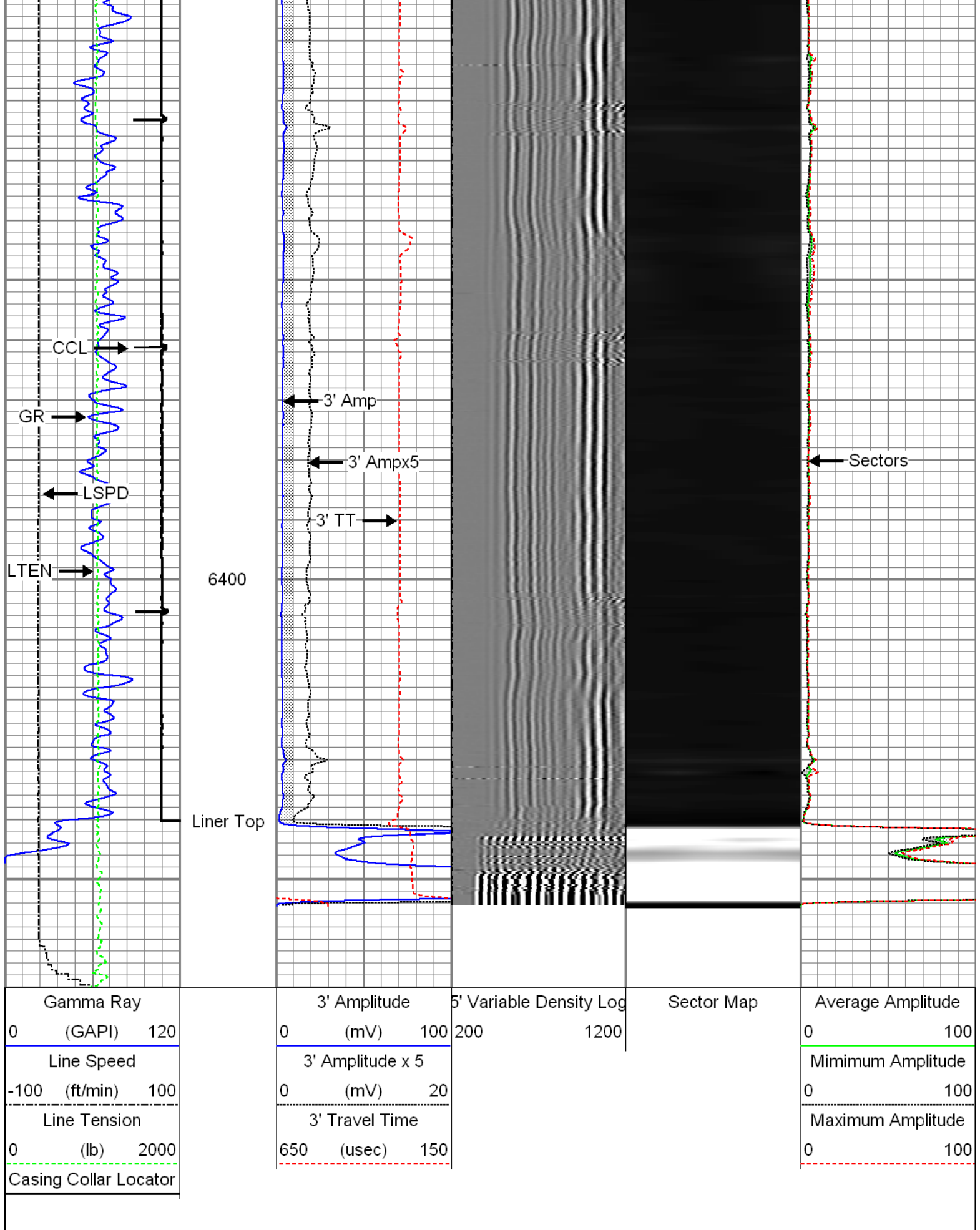


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6200

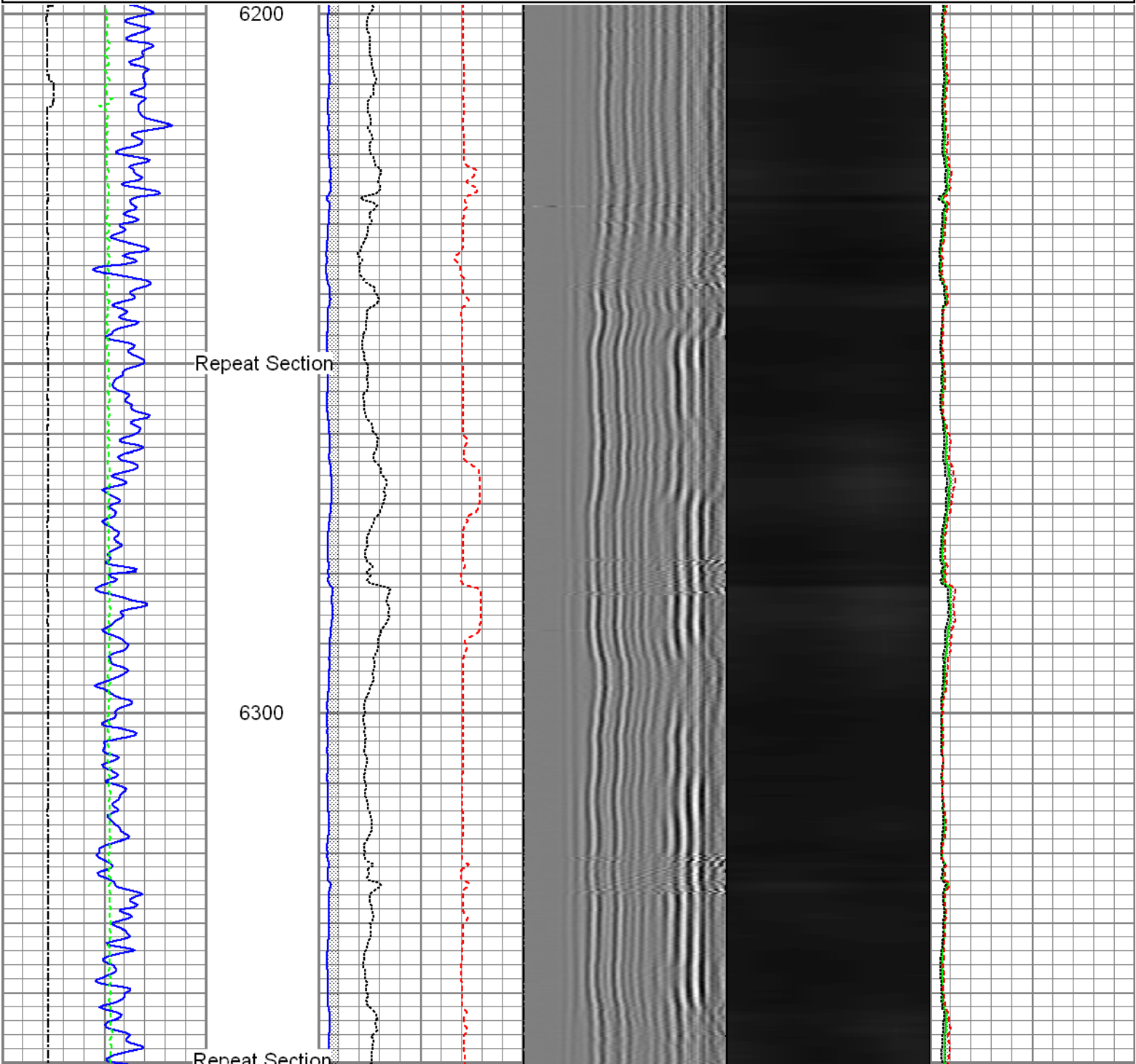
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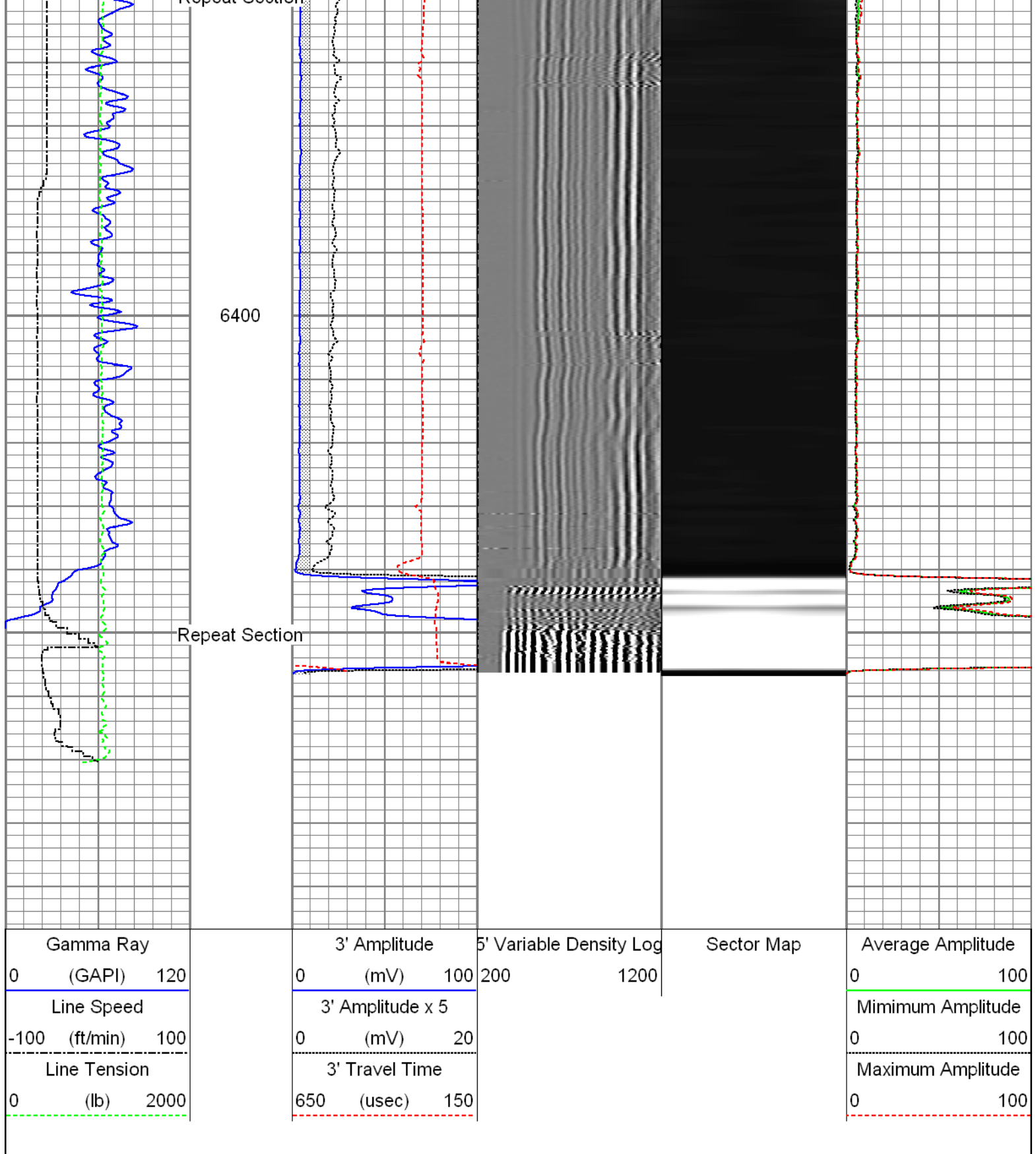





Database File: c:\warrior\data\old\0512337916_anadarko_greenleaf 36n-15hz_01-24-15_mit_rbl.db
Dataset Pathname: repeat
Presentation Format: rbt4_mit
Dataset Creation: Sat Jan 24 09:27:43 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
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





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
			UW_AGS-UW_AGS_001 (10024281) 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_RCB-UW_RCB_003 (10010070) Ultralink to Ultralink Crossover	1.00	1.00	0.50

GR	22.81		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
			UW_RBT-UW_RBT_004 (1066) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS3FT	15.42					
WVFS1	15.42					
WVFS2	15.42					
WVFS3	15.42					
WVFS4	15.42					
WVFS5	15.42					
WVFS6	15.42					
WVFS7	15.42					
WVFS8	15.42					
CBLTEMP	15.42					
CBLROT	15.42					
WVFS5FT	14.42					
			UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
MIT	5.41		UW_MIT-UW_MIT40_042 (10014703) 40 Multifinger Imaging Tool	4.54	2.75	61.10
			UW_PRC #3 -UW_PRC_057 (1102) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
			UW_BUL-UW_BUL_006 (10022928) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
TSTAMP	0.00					
Dataset: 0512337916_Anadarko_Greenleaf 36N-15HZ_01-24-15_MIT_RBL.db: field/well/run1/main.1 Total Length: 27.05 ft Total Weight: 319.30 lb O.D. 3.13 in						

Calibration Report	
Database File:	C:\Warrior\Data\old\0512337916_Anadarko_Greenleaf 36N-15HZ_01-24-15_MIT_RBL.db
Dataset Pathname:	postcal
Dataset Creation:	Sat Jan 24 11:52:19 2015 by Log 7.0 B1
Multi-finger Imaging Tool Calibration Report	
Serial Number:	10014703

Serial Number: 10014703
Number of Fingers: 40
Tool Model: UW_MIT40_042

Inclinometer Calibration Report

Performed: Fri Sep 20 11:47:48 2013
Calibration Angle: 45

Vertical:		Inc X	Inc Y
		1963	1960
Finger 1 up:		1748	1727
Finger 31 up:		2195	1742
Finger 21 up:		2178	2188
Finger 11 up:		1727	2173
Sensitivity ratio:	1.00706		
X-axis angle:	132.825		
Deviation const.:	317.775		

Finger Calibration Report

Performed: Sat Jan 24 08:50:17 2015

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1090	394.0	1484	384.0	1868	388.0	2256
Finger 02:	1048	400.0	1448	399.0	1847	412.0	2259
Finger 03:	1045	387.0	1432	386.0	1818	406.0	2224
Finger 04:	1014	397.0	1411	408.0	1819	428.0	2247
Finger 05:	1017	375.0	1392	381.0	1773	397.0	2170
Finger 06:	1027	388.0	1415	395.0	1810	415.0	2225
Finger 07:	1036	383.0	1419	388.0	1807	410.0	2217
Finger 08:	995	382.0	1377	399.0	1776	429.0	2205
Finger 09:	1067	386.0	1453	388.0	1841	400.0	2241
Finger 10:	1053	385.0	1438	394.0	1832	412.0	2244
Finger 11:	990	379.0	1369	394.0	1763	422.0	2185
Finger 12:	1098	377.0	1475	373.0	1848	384.0	2232
Finger 13:	1040	372.0	1412	390.0	1802	420.0	2222
Finger 14:	1007	385.0	1392	406.0	1798	434.0	2232
Finger 15:	977	381.0	1358	405.0	1763	438.0	2201
Finger 16:	1014	374.0	1388	397.0	1785	427.0	2212
Finger 17:	1060	370.0	1430	384.0	1814	406.0	2220
Finger 18:	1100	376.0	1476	387.0	1863	414.0	2277
Finger 19:	1047	379.0	1426	397.0	1823	422.0	2245
Finger 20:	978	377.0	1355	404.0	1759	433.0	2192
Finger 21:	1040	369.0	1409	389.0	1798	416.0	2214
Finger 22:	1031	377.0	1408	394.0	1802	421.0	2223
Finger 23:	1087	381.0	1468	394.0	1862	418.0	2280
Finger 24:	1057	351.0	1408	364.0	1772	390.0	2162
Finger 25:	1078	391.0	1469	400.0	1869	420.0	2289
Finger 26:	1030	374.0	1404	388.0	1792	415.0	2207
Finger 27:	1202	404.0	1606	398.0	2004	410.0	2414
Finger 28:	1078	374.0	1452	381.0	1833	408.0	2241
Finger 29:	1023	384.0	1407	396.0	1803	420.0	2223
Finger 30:	997	381.0	1378	397.0	1775	424.0	2199
Finger 31:	1222	416.0	1638	406.0	2044	416.0	2460
Finger 32:	1013	387.0	1400	384.0	1784	399.0	2183
Finger 33:	1201	430.0	1631	418.0	2049	427.0	2476
Finger 34:	986	387.0	1373	389.0	1762	409.0	2171
Finger 35:	1138	415.0	1553	408.0	1961	418.0	2379
Finger 36:	1035	371.0	1406	370.0	1776	385.0	2161
Finger 37:	1081	401.0	1482	395.0	1877	405.0	2282
Finger 38:	1095	388.0	1483	380.0	1863	391.0	2254
Finger 39:	1070	375.0	1445	367.0	1812	379.0	2191
Finger 40:	995	404.0	1399	413.0	1812	428.0	2240

Post Survey Calibration Check

Performed: Sat Jan 24 11:51:59 2015

Ring size: (in)	4	Nom. wear	5	Nom. wear	6	Nom. wear	7	Nom. wear
Finger 01:	4.067	0.033	5.001	0.000	6.000	0.000	7.010	0.005
Finger 02:	4.071	0.035	5.000	0.000	6.002	0.001	7.008	0.004
Finger 03:	4.062	0.031	4.995	-0.003	5.998	-0.001	7.007	0.003
Finger 04:	4.056	0.028	4.995	-0.003	5.998	-0.001	7.002	0.001
Finger 05:	4.064	0.032	4.995	-0.002	6.002	0.001	7.005	0.002
Finger 06:	4.063	0.032	5.000	0.000	6.005	0.002	7.008	0.004
Finger 07:	4.067	0.033	5.007	0.004	6.007	0.004	7.009	0.004
Finger 08:	4.062	0.031	4.998	-0.001	6.002	0.001	7.001	0.001
Finger 09:	4.064	0.032	4.998	-0.001	6.002	0.001	7.005	0.003
Finger 10:	4.066	0.033	5.003	0.002	6.005	0.003	7.009	0.005
Finger 11:	4.065	0.033	4.996	-0.002	6.002	0.001	7.002	0.001
Finger 12:	4.069	0.035	4.996	-0.002	5.997	-0.001	7.004	0.002
Finger 13:	4.067	0.033	5.000	-0.000	6.000	0.000	7.004	0.002
Finger 14:	4.068	0.034	5.002	0.001	6.005	0.002	7.010	0.005
Finger 15:	4.059	0.030	4.993	-0.003	6.001	0.001	7.007	0.004
Finger 16:	4.063	0.032	5.000	0.000	6.000	0.000	7.007	0.003
Finger 17:	4.059	0.030	5.000	-0.000	6.003	0.001	7.010	0.005
Finger 18:	4.067	0.033	4.998	-0.001	6.002	0.001	7.005	0.002
Finger 19:	4.066	0.033	5.002	0.001	6.003	0.001	7.006	0.003
Finger 20:	4.068	0.034	4.998	-0.001	6.000	0.000	7.004	0.002
Finger 21:	4.062	0.031	4.999	-0.000	5.997	-0.002	7.007	0.004
Finger 22:	4.066	0.033	5.004	0.002	6.003	0.001	7.006	0.003
Finger 23:	4.067	0.033	5.002	0.001	6.004	0.002	7.007	0.004
Finger 24:	4.067	0.034	5.002	0.001	6.003	0.001	7.013	0.007
Finger 25:	4.063	0.032	4.997	-0.001	6.003	0.002	7.003	0.002
Finger 26:	4.061	0.031	4.998	-0.001	6.004	0.002	7.005	0.003
Finger 27:	4.063	0.031	4.994	-0.003	5.996	-0.002	7.012	0.006
Finger 28:	4.063	0.032	4.999	-0.000	6.003	0.001	7.003	0.001
Finger 29:	4.067	0.033	5.001	0.000	6.003	0.001	7.004	0.002
Finger 30:	4.062	0.031	5.000	0.000	6.006	0.003	7.007	0.003
Finger 31:	4.068	0.034	5.001	0.000	6.002	0.001	7.005	0.002
Finger 32:	4.068	0.034	4.998	-0.001	6.000	0.000	7.004	0.002
Finger 33:	4.061	0.030	4.995	-0.003	6.001	0.001	7.004	0.002
Finger 34:	4.062	0.031	4.993	-0.004	5.998	-0.001	7.005	0.002
Finger 35:	4.065	0.032	4.997	-0.001	6.000	-0.000	7.003	0.002
Finger 36:	4.063	0.031	5.000	0.000	6.002	0.001	7.005	0.003
Finger 37:	4.069	0.035	5.010	0.005	6.010	0.005	7.012	0.006
Finger 38:	4.066	0.033	5.001	0.000	6.002	0.001	7.006	0.003
Finger 39:	4.072	0.036	5.001	0.000	6.003	0.001	7.013	0.006
Finger 40:	4.059	0.029	4.999	-0.001	5.999	-0.000	7.007	0.004
Average:	4.065	0.032	4.999	-0.000	6.002	0.001	7.006	0.003

Segmented Cement Bond Log Calibration Report								
			Serial Number:		1066			
			Tool Model:		UW_RBT_004			
			Calibration Casing Diameter:		7.000	in		
			Calibration Depth:		486.454	ft		

Master Calibration, performed Sat Jan 24 09:06:28 2015:							
	Raw (v)		Calibrated (mv)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
3FT	-0.004	0.710	0.800	62.165	85.994	1.115	
5FT	-0.008	0.674	0.800	62.165	89.889	1.558	
S1	-0.004	0.677	0.000	100.000	146.858	0.565	
S2	-0.004	0.703	0.000	100.000	141.410	0.533	
S3	-0.005	0.723	0.000	100.000	137.362	0.657	
S4	-0.005	0.720	0.000	100.000	134.251	0.620	

S4	-0.005	0.738	0.000	100.000	134.651	0.636
S5	-0.004	0.727	0.000	100.000	136.848	0.553
S6	-0.004	0.718	0.000	100.000	138.463	0.553
S7	-0.004	0.712	0.000	100.000	139.622	0.537
S8	-0.004	0.688	0.000	100.000	144.450	0.548

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 LP
	Well	Greenleaf 36N-15HZ
	Field	Wattenberg
	County	Weld
	State	Colorado