



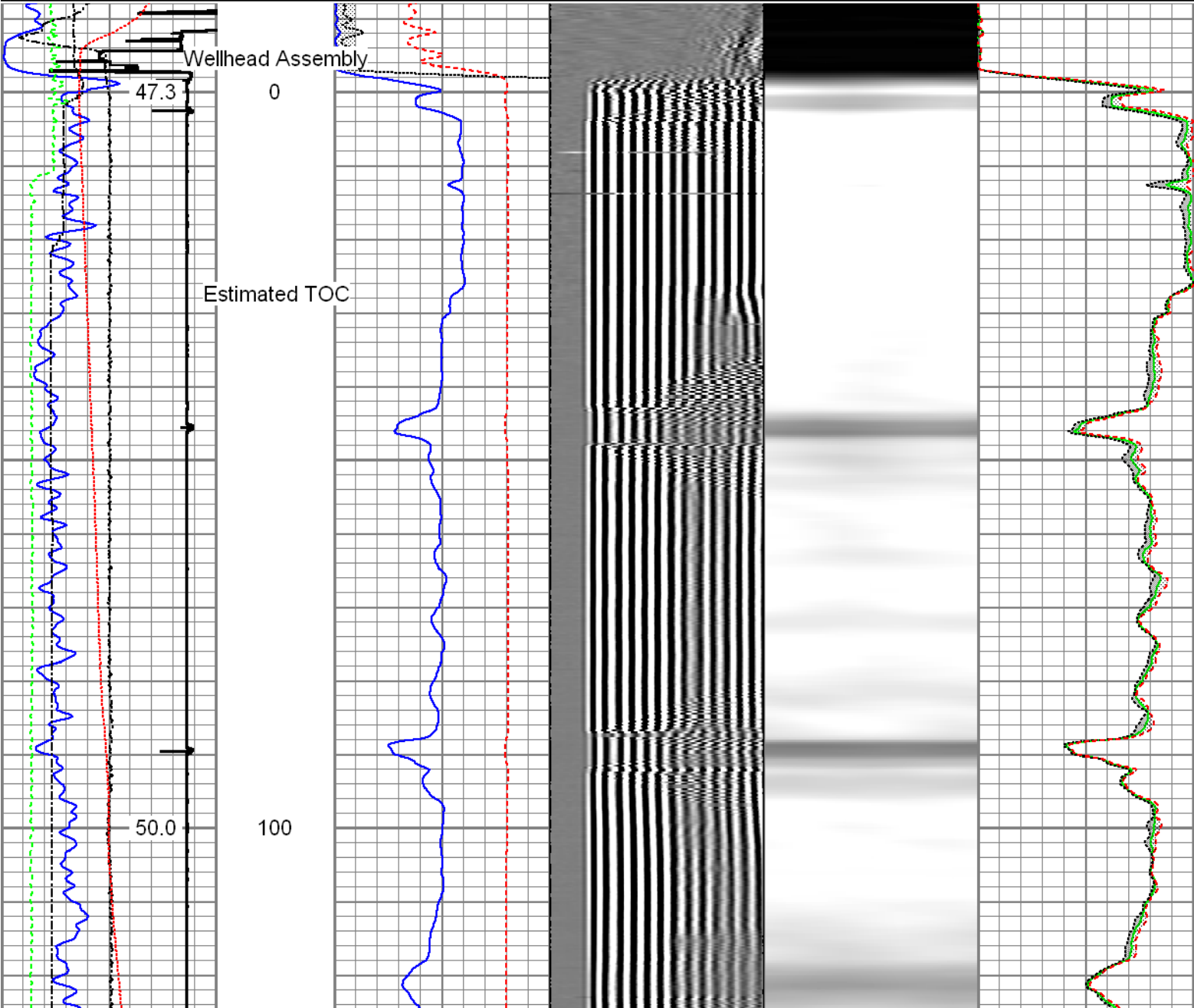
<<< Fold Here >>>
<p>All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 reference to Casing Tally reported liner top at 6436 FT. Adjusted -22.5 FT to correlate to liner top. Gauge Ring/Junk Basket ran to 7085 FT. Log ran from as deep as possible in heel to surface Log ran with 2800 PSI surface induced pressure. Logging tools were clean and free of debris upon completion of operations.</p> <p>Thank you for choosing FMC Technologies Completion Services, Inc.!!</p>

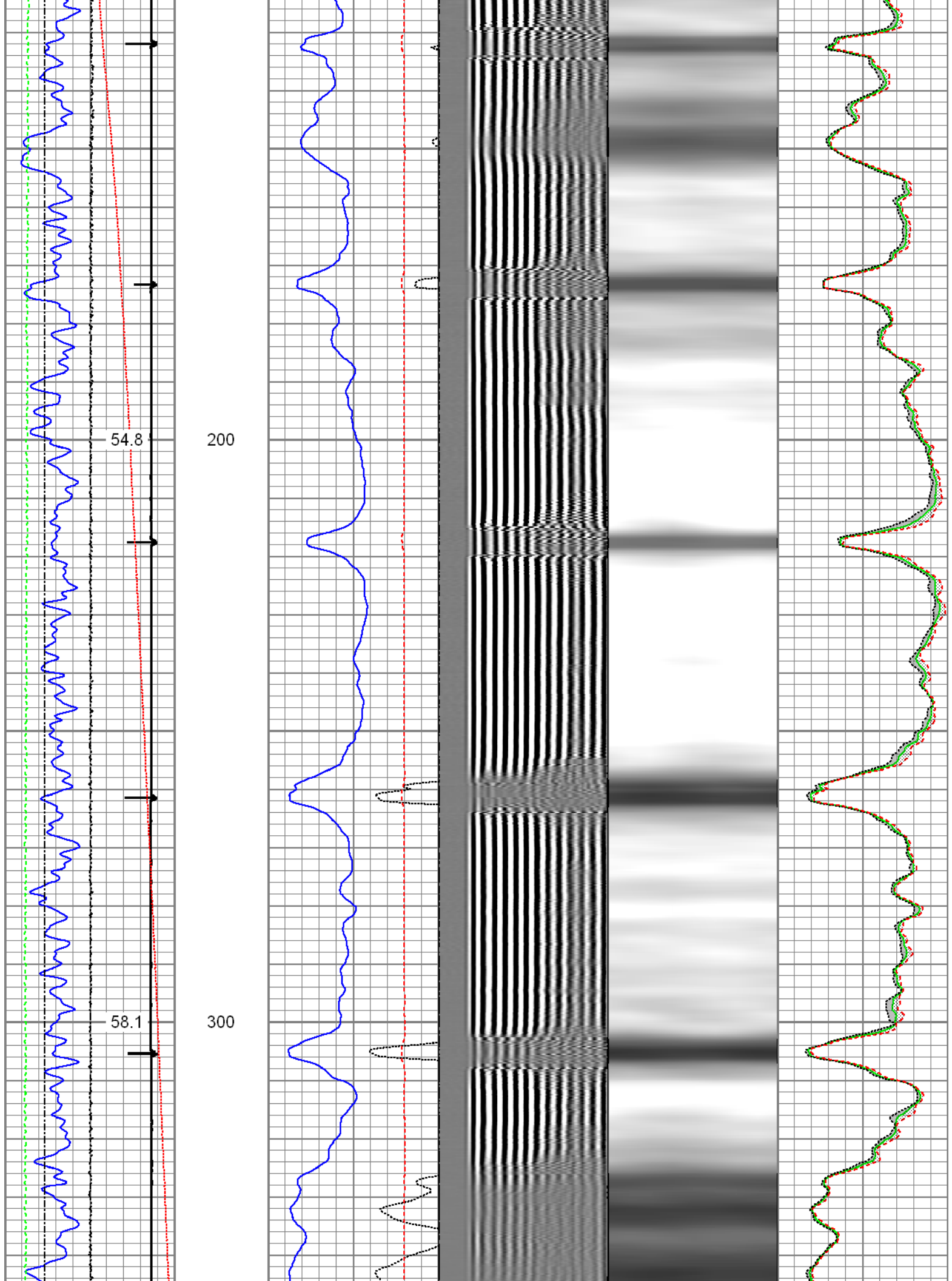


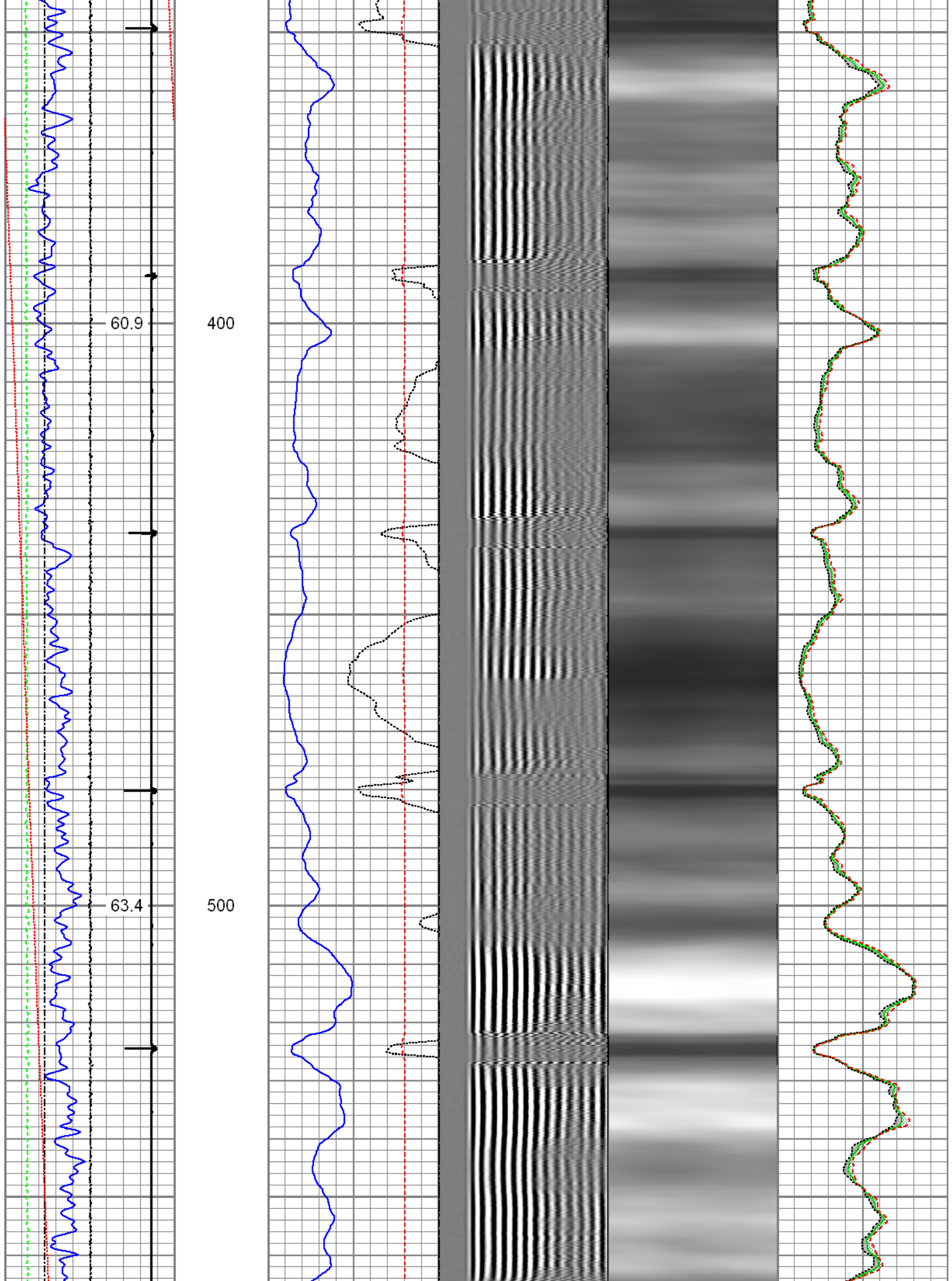
Recorded With 2800 PSI Surface Induced Pressure

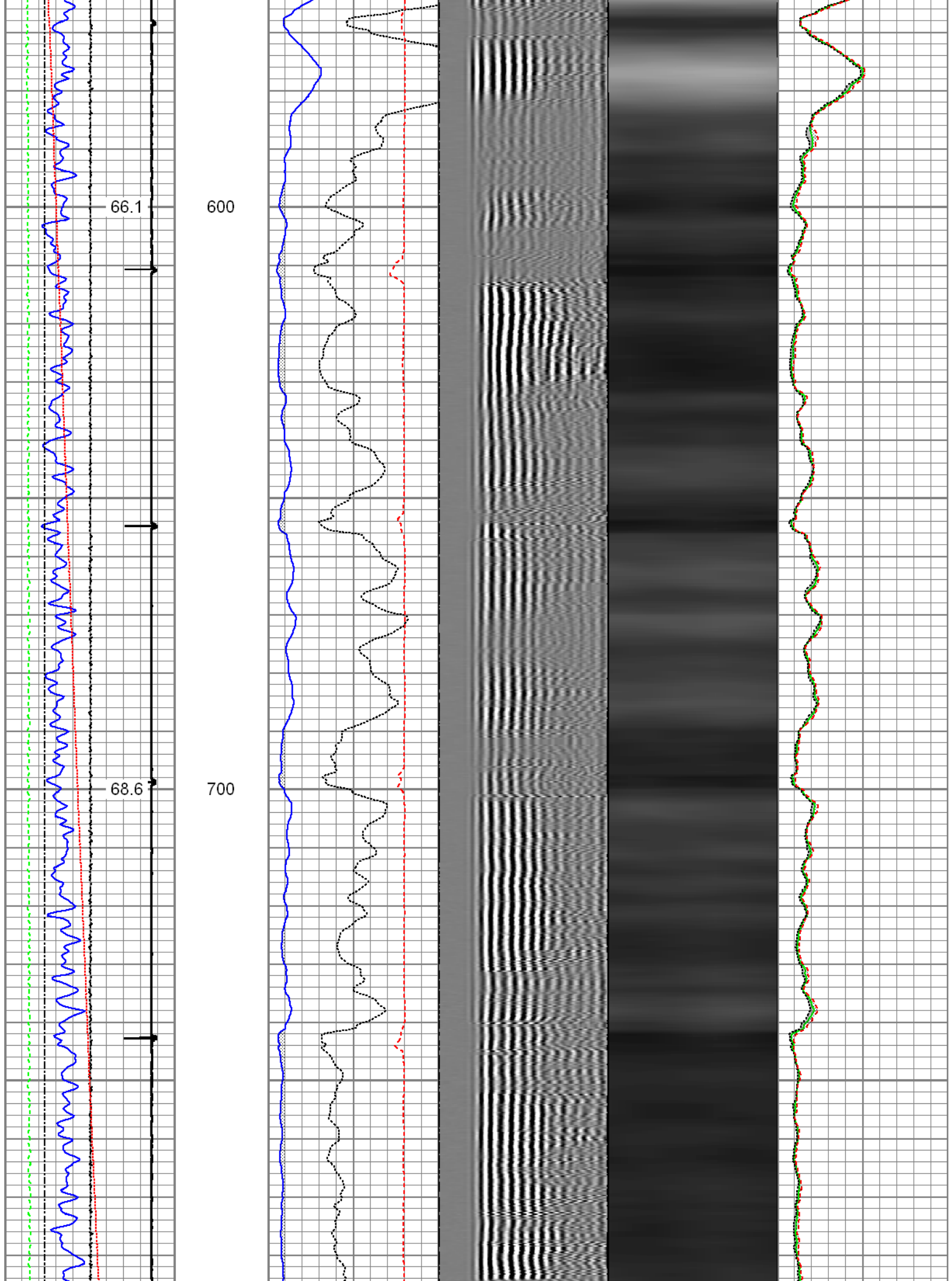
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Dataset Pathname: pass6.5
Presentation Format: rbt4_mit
Dataset Creation: Mon Mar 09 12:03:38 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

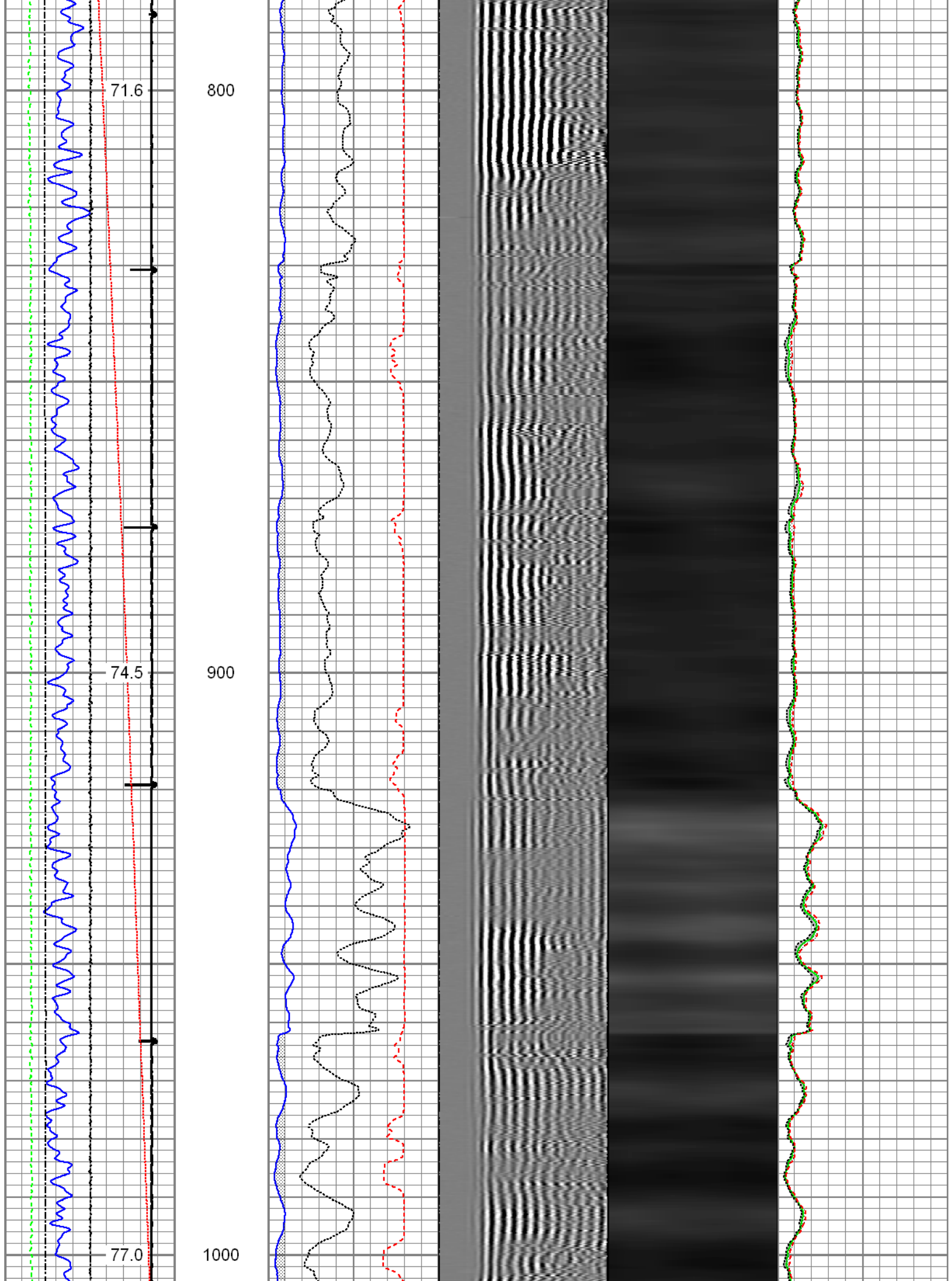
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000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

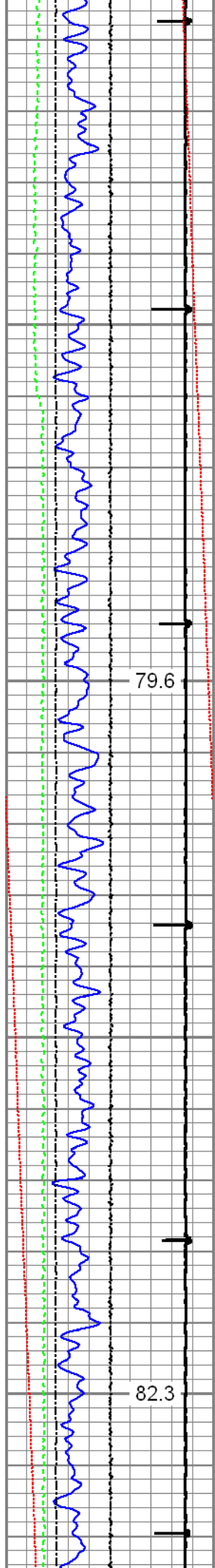






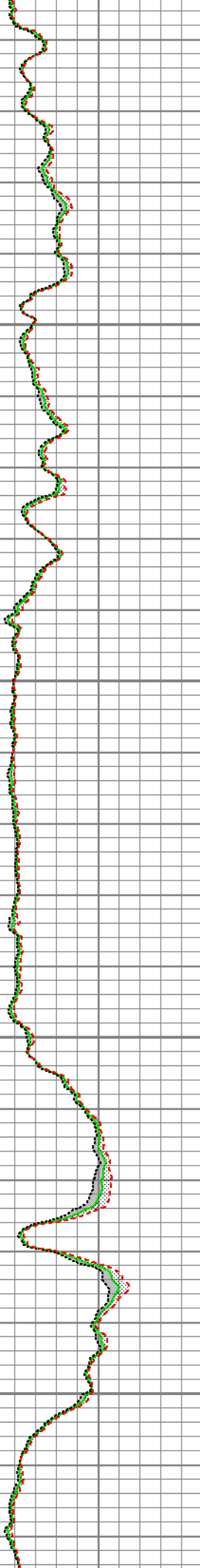
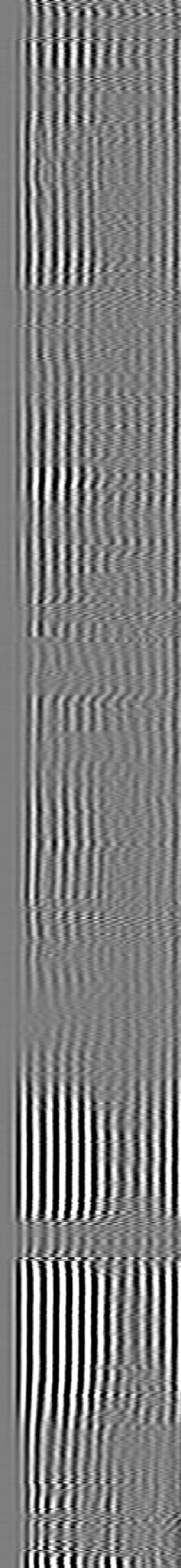
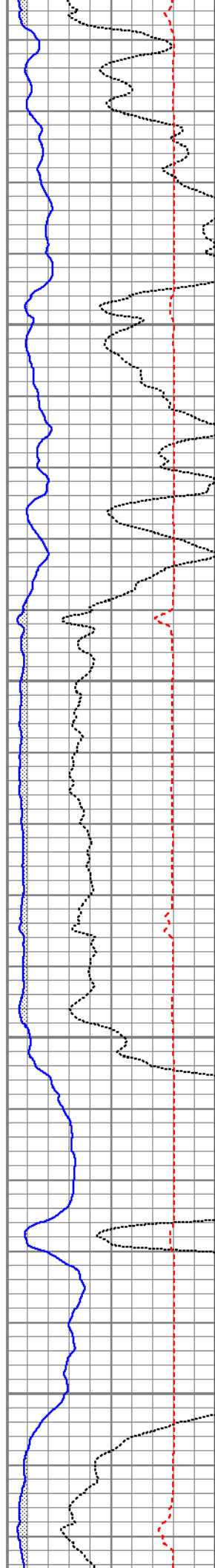


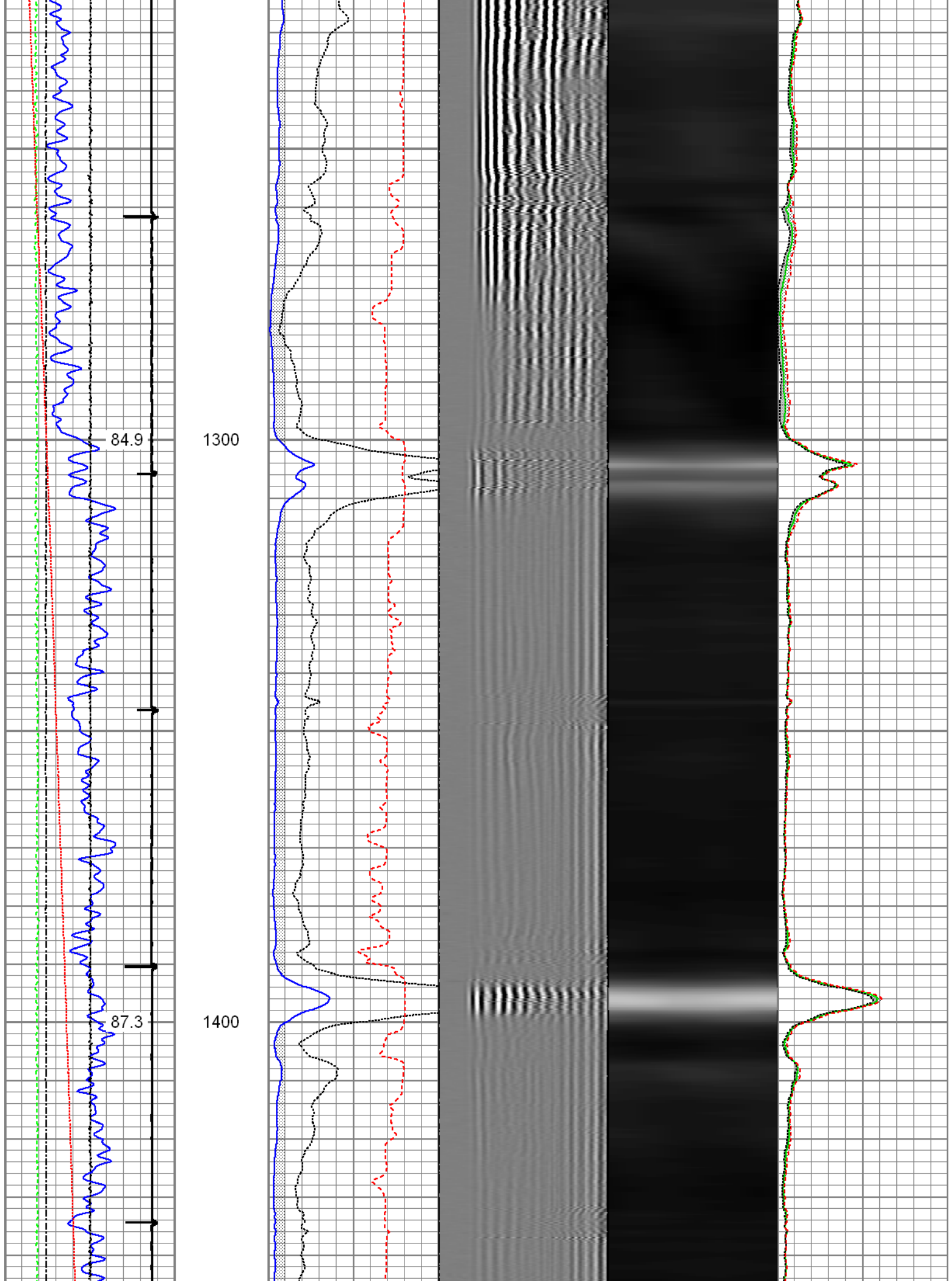


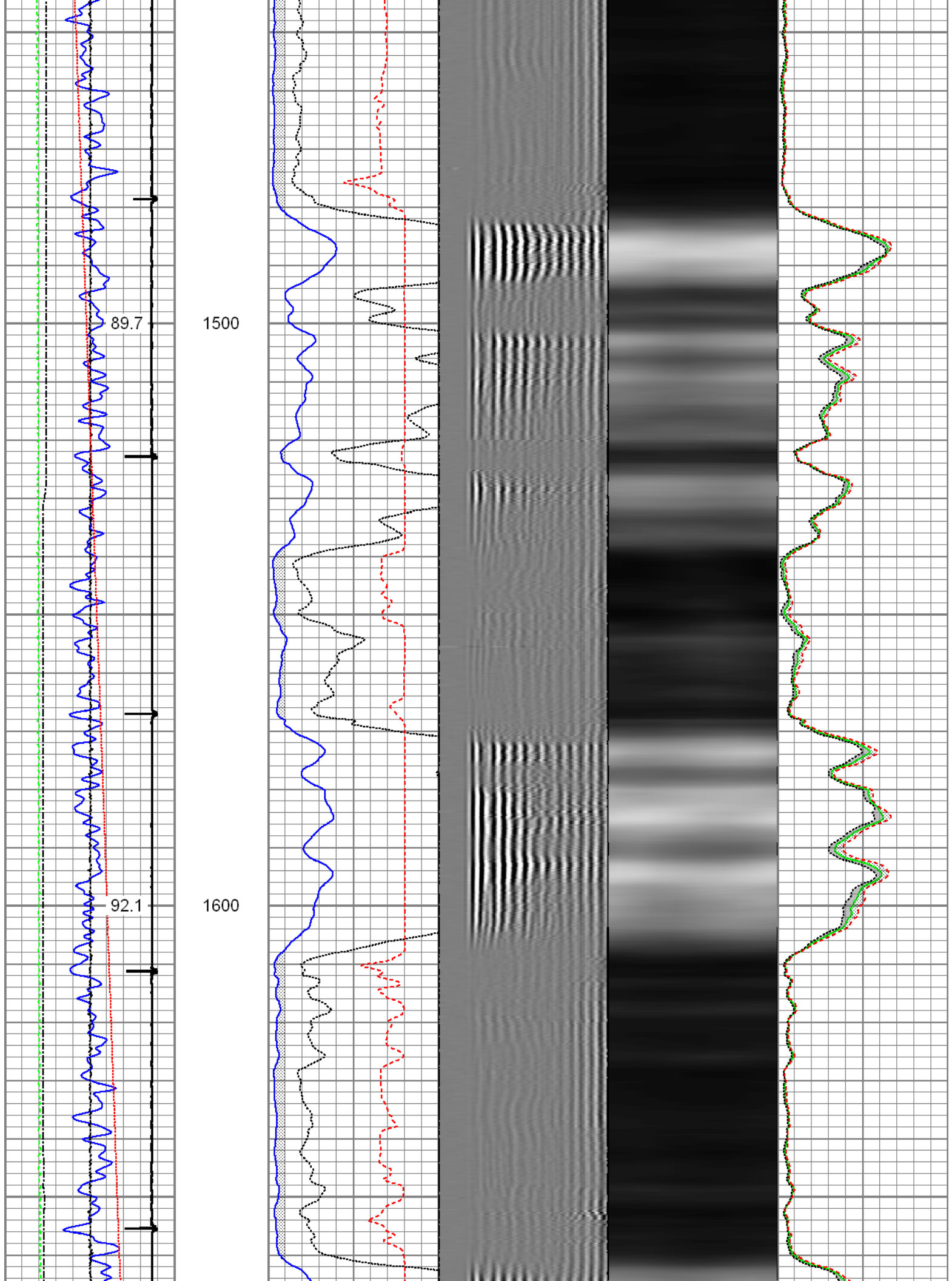


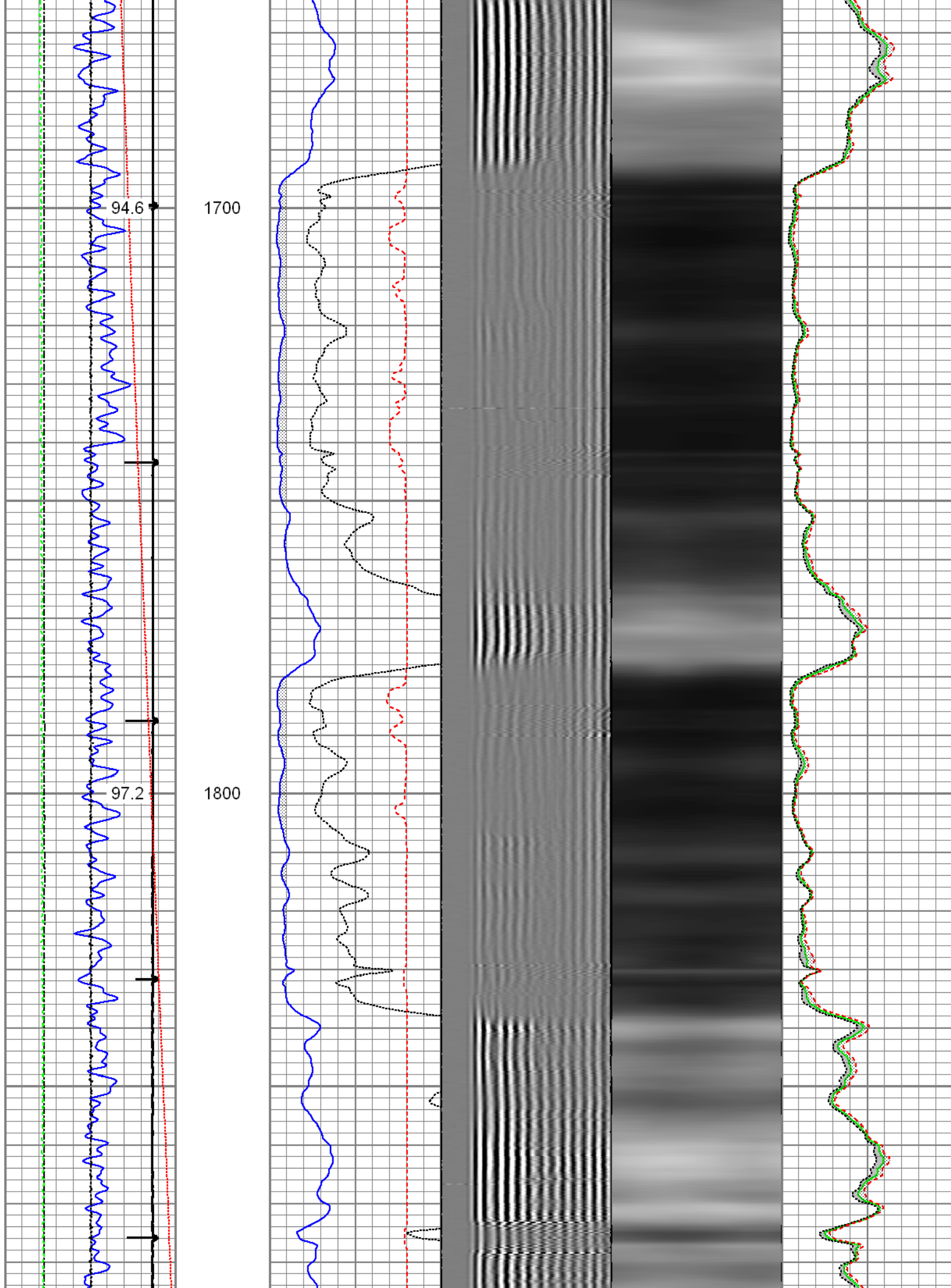
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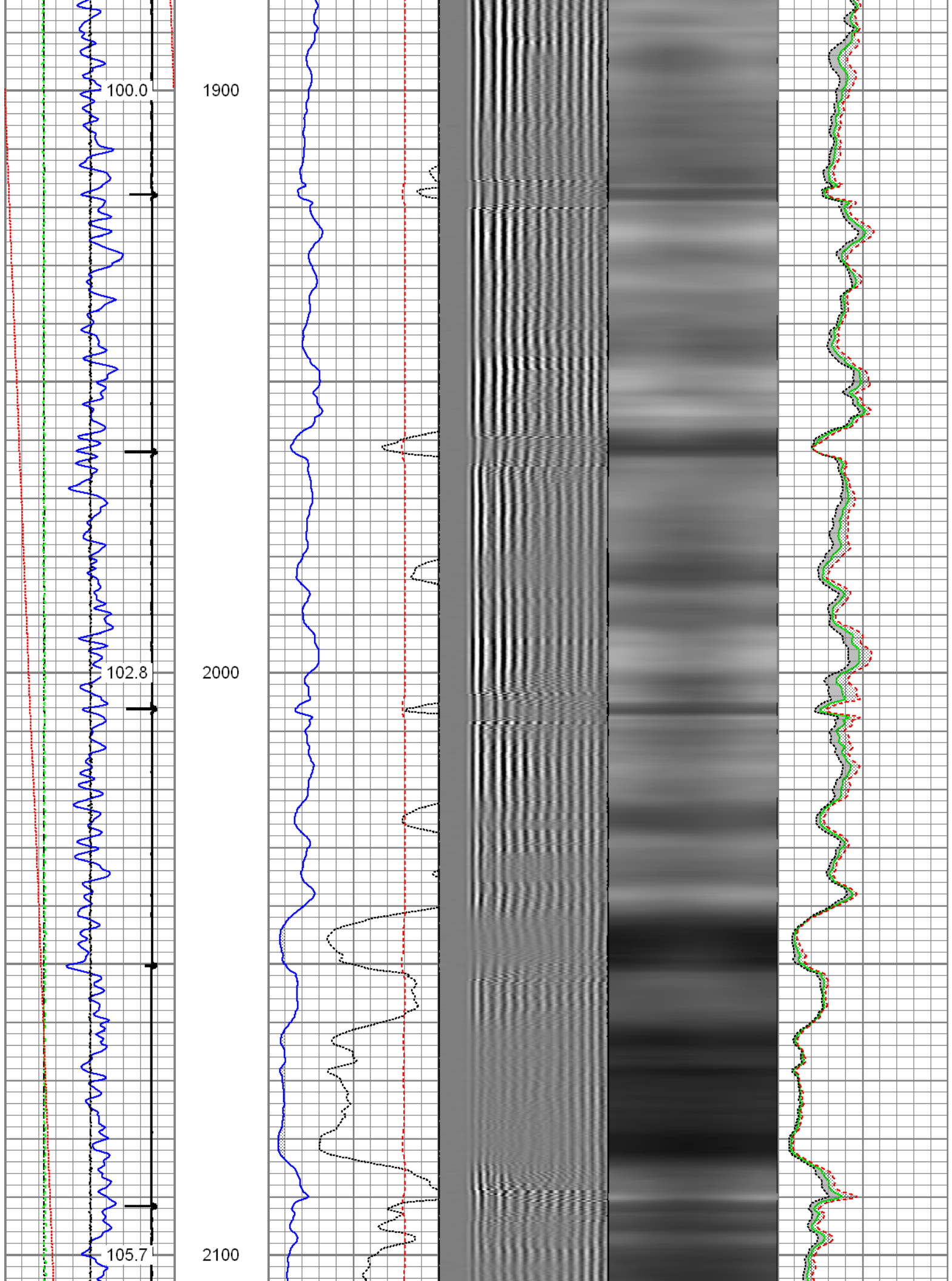
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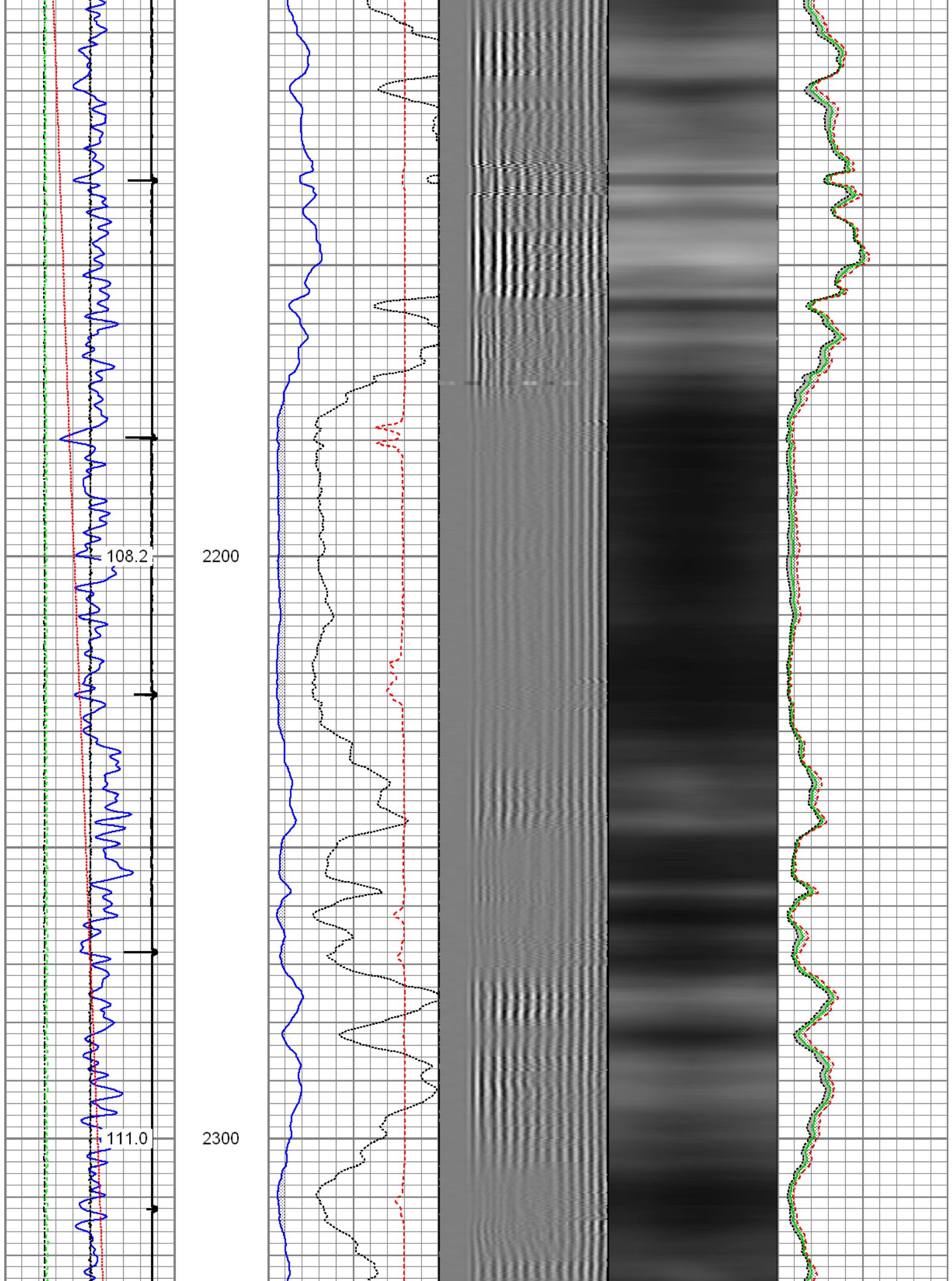


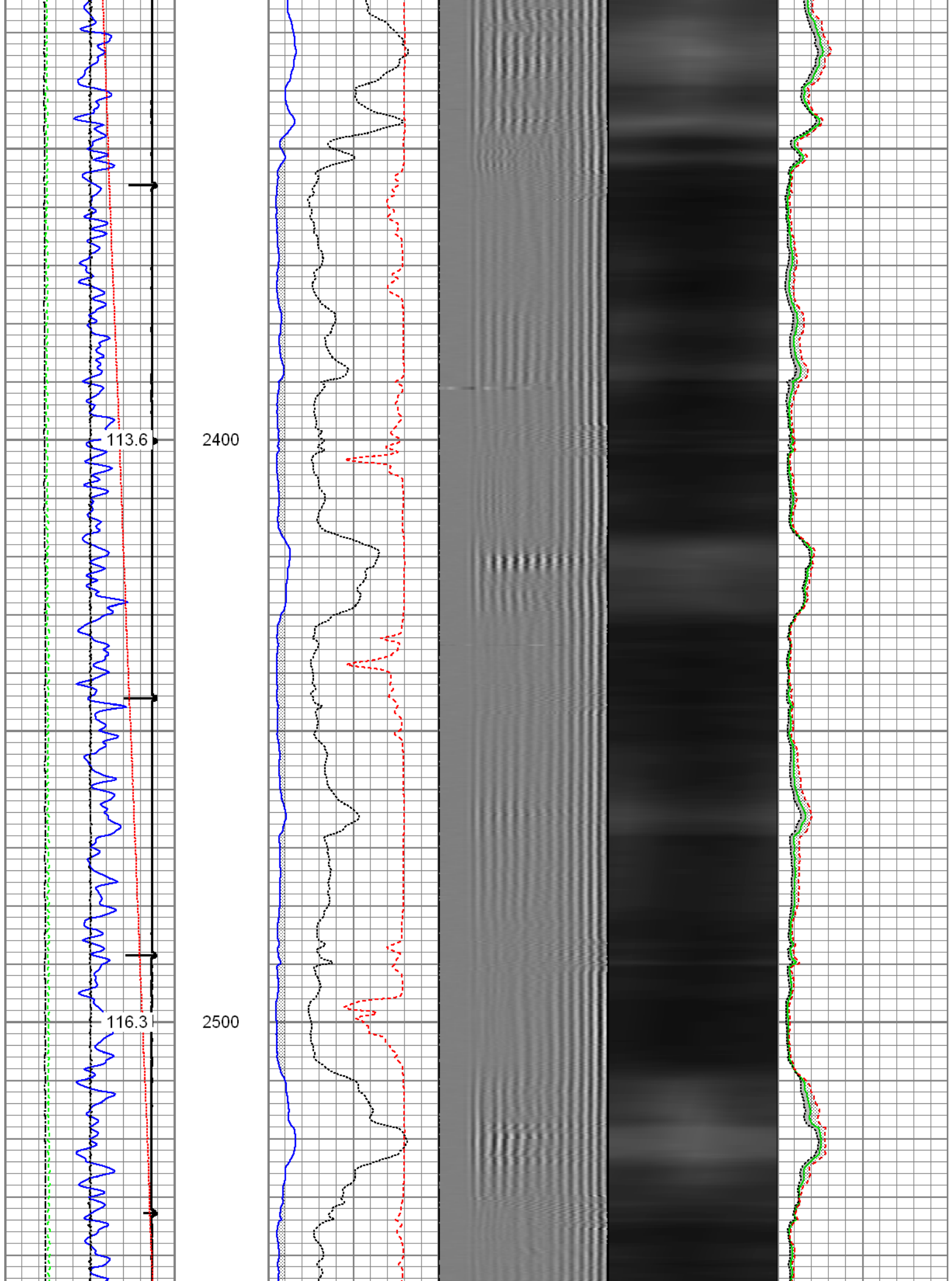


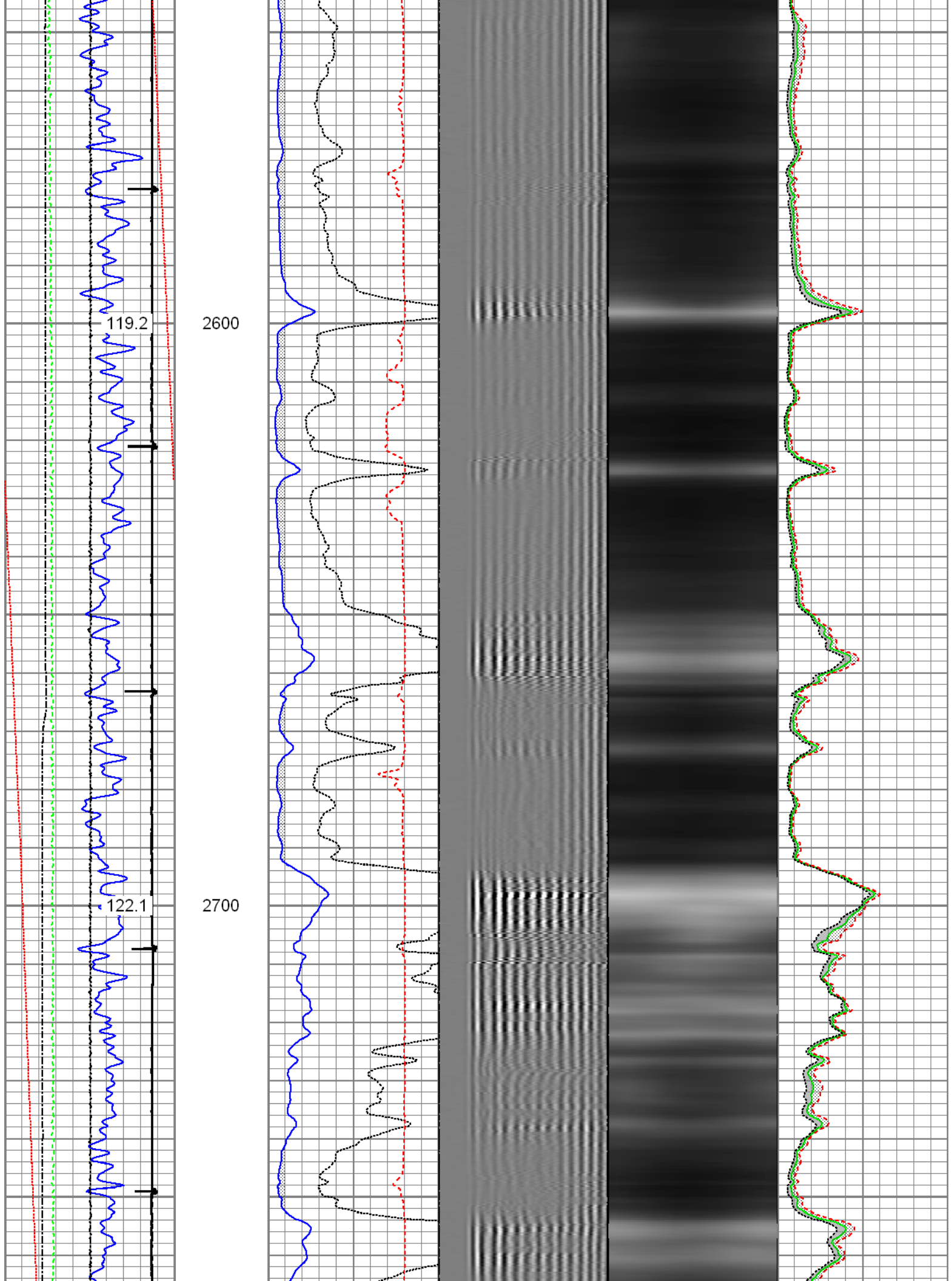


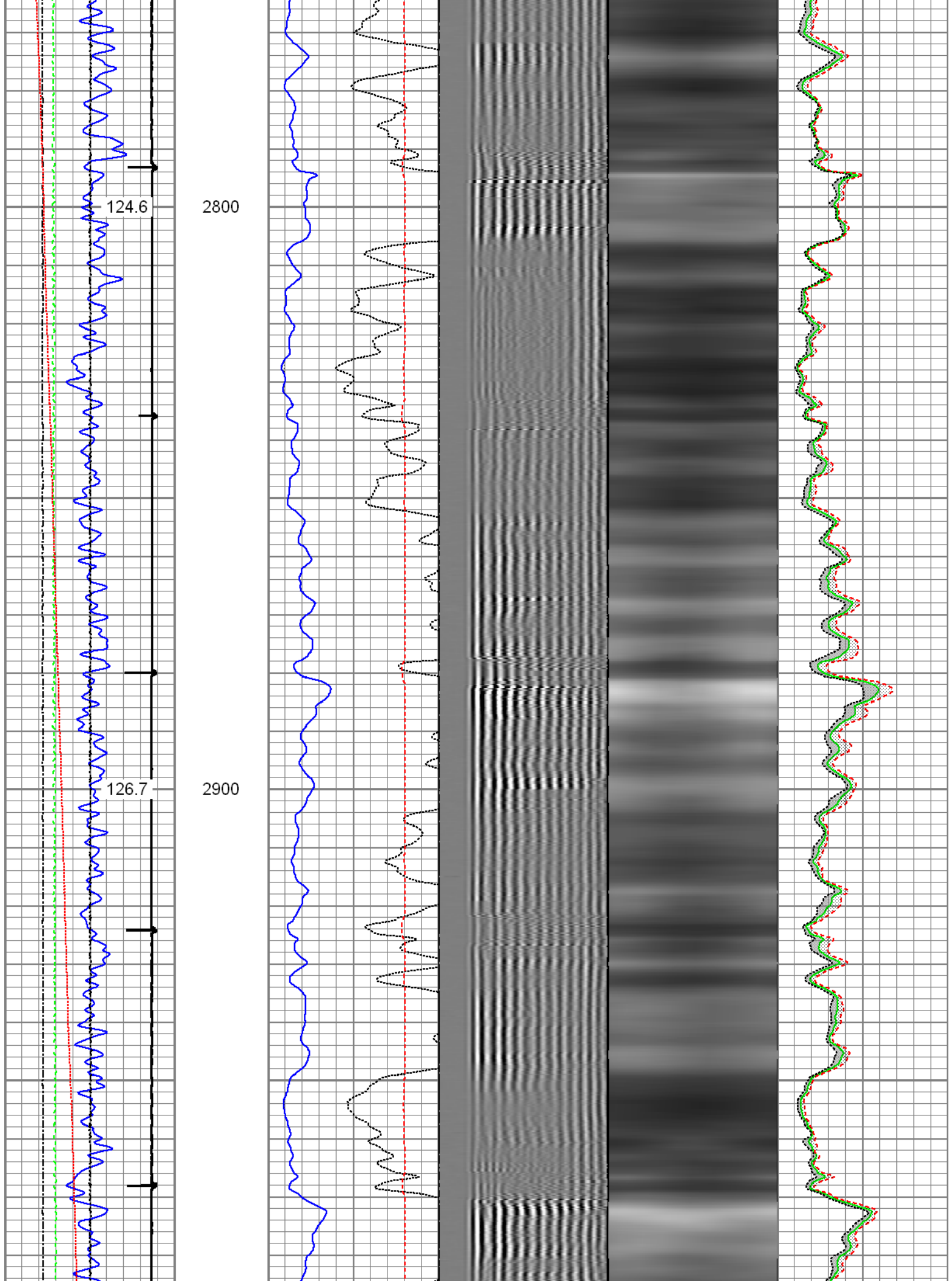


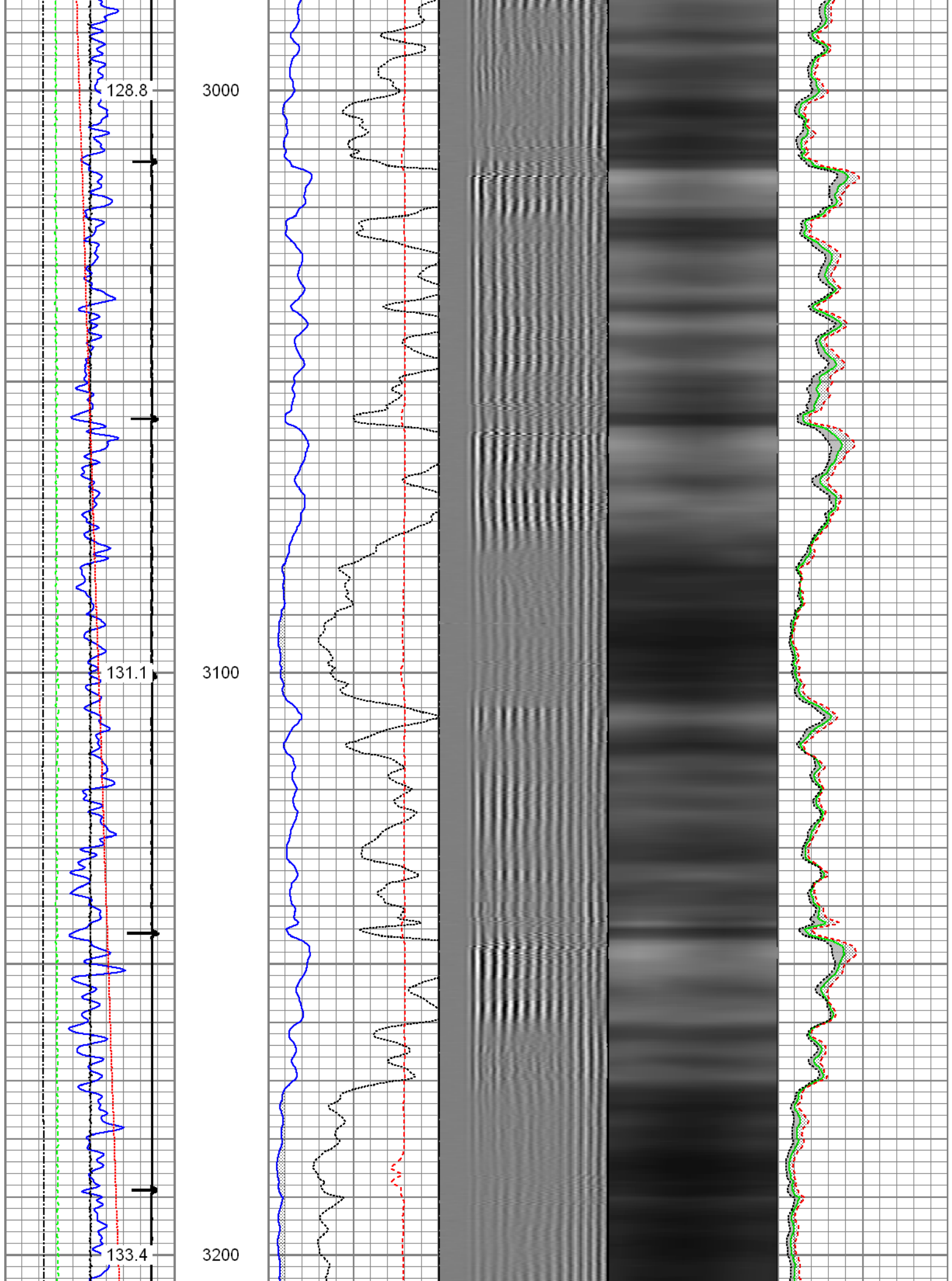


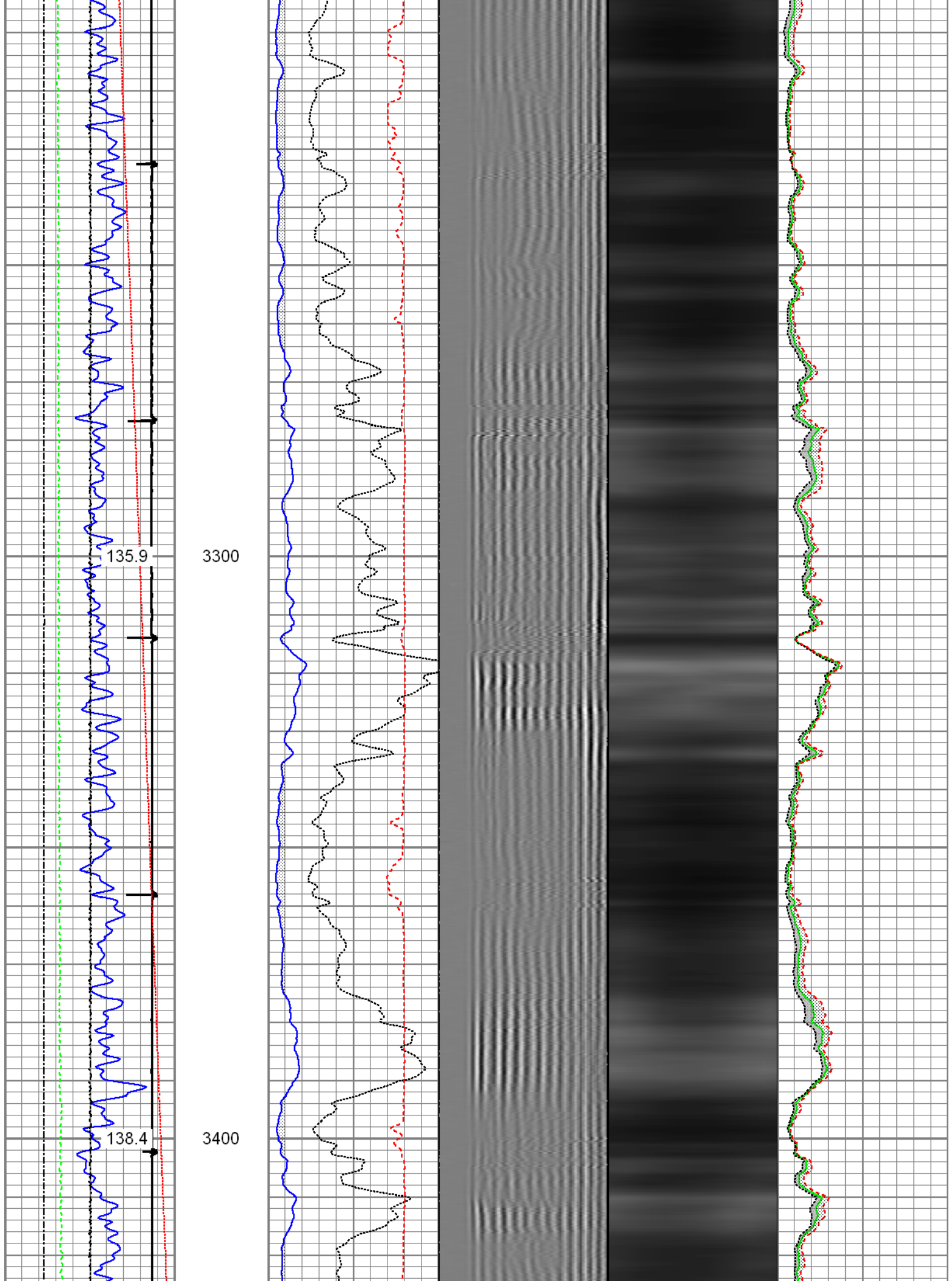


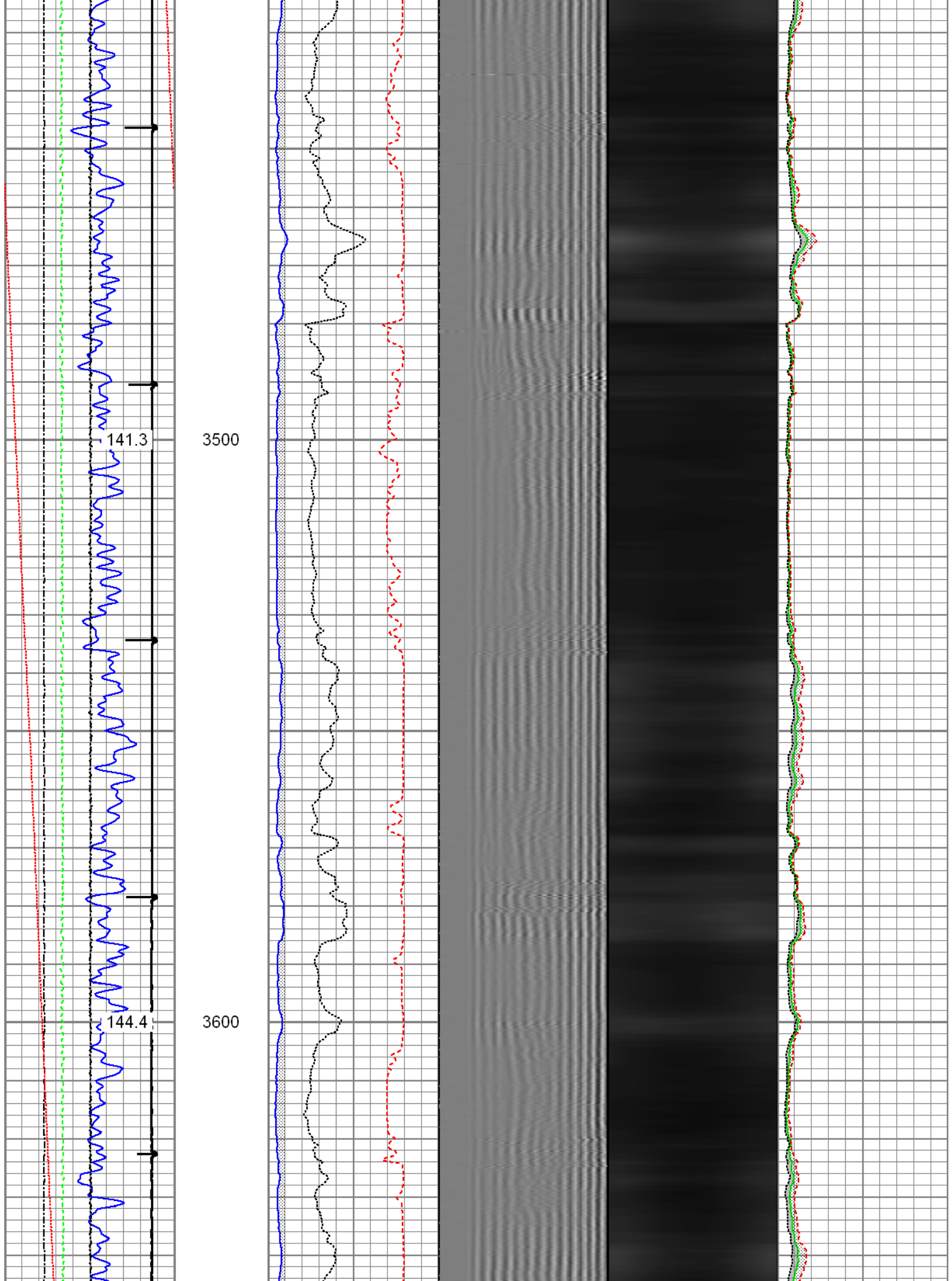


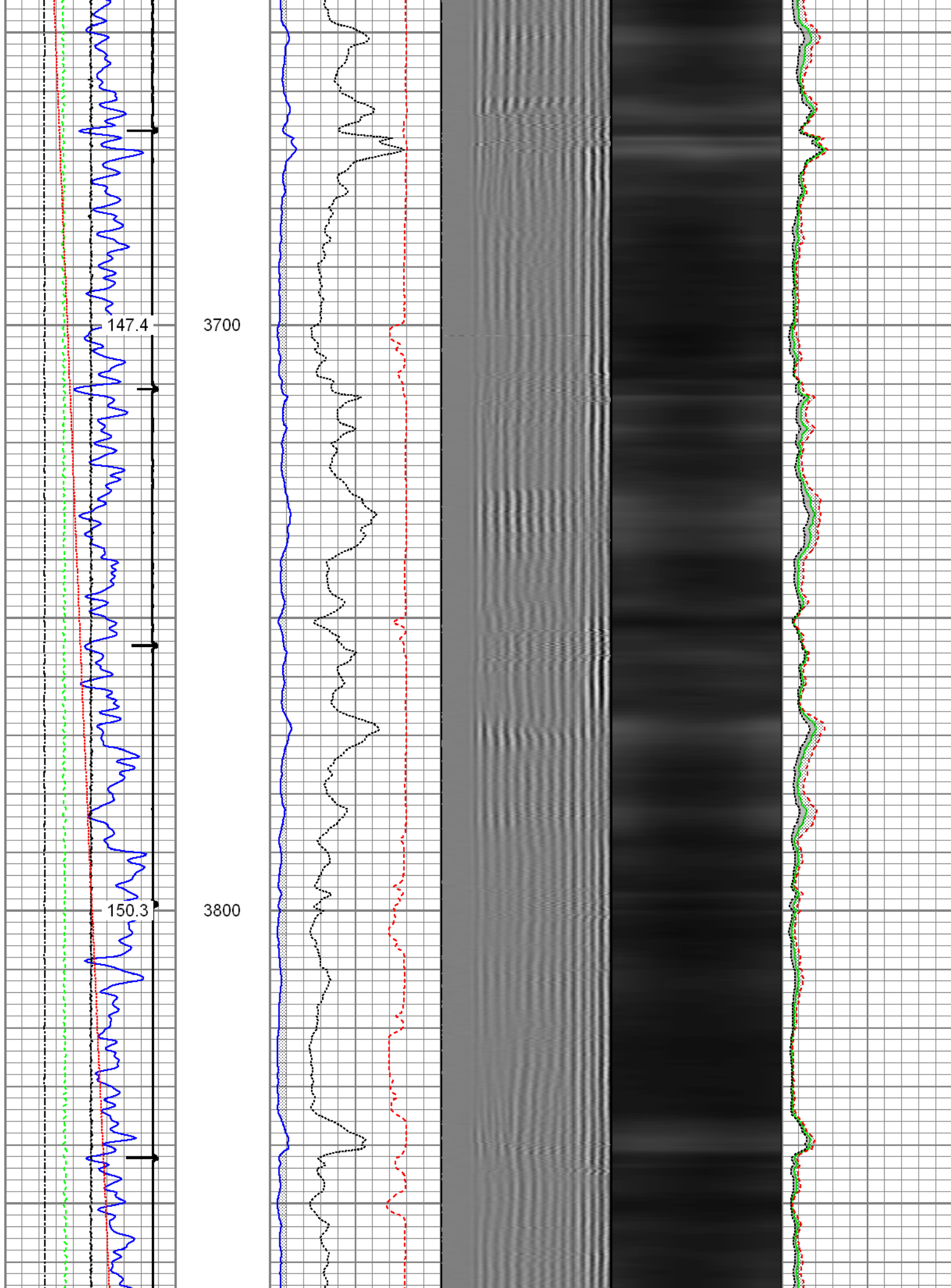


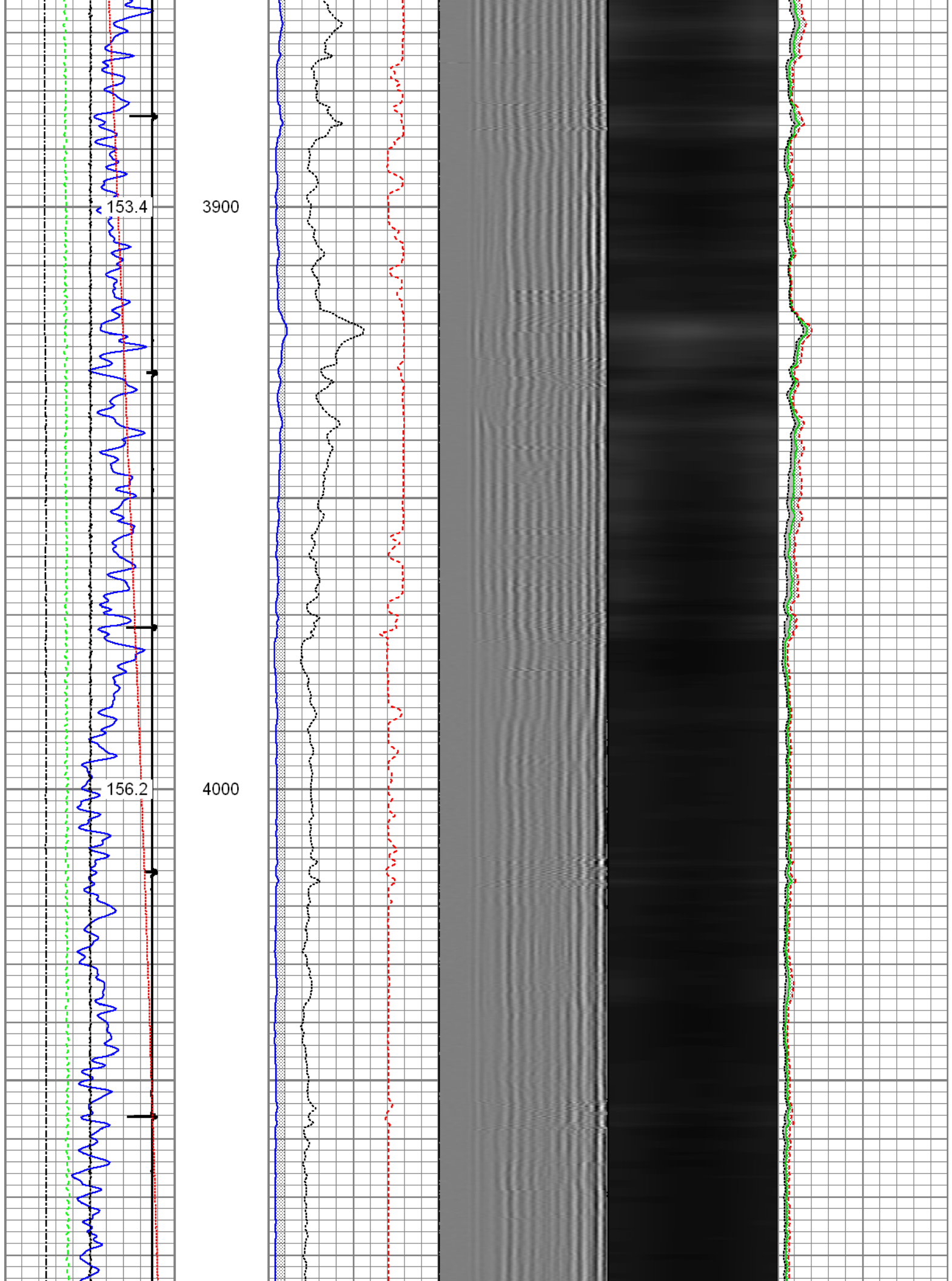


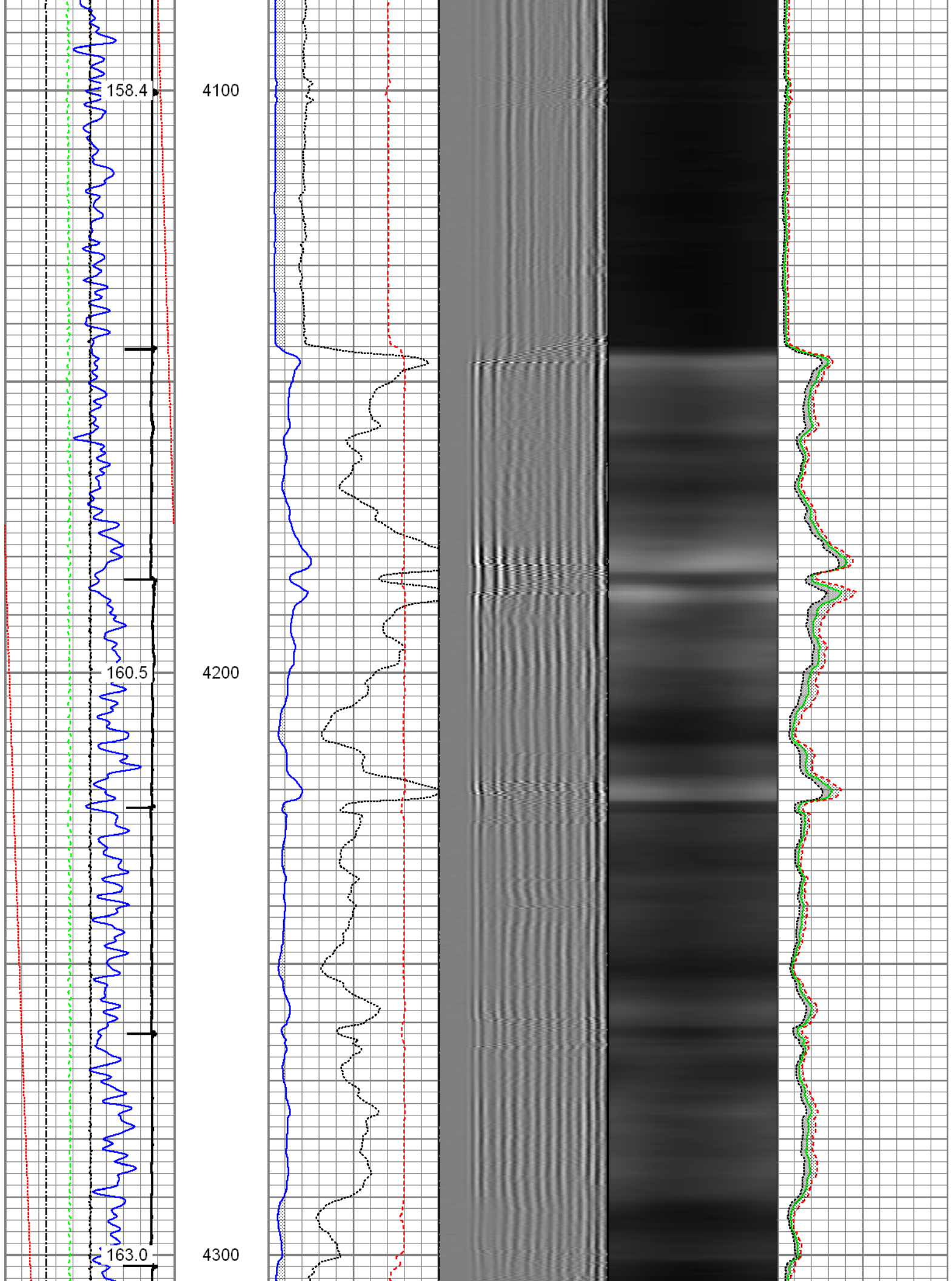


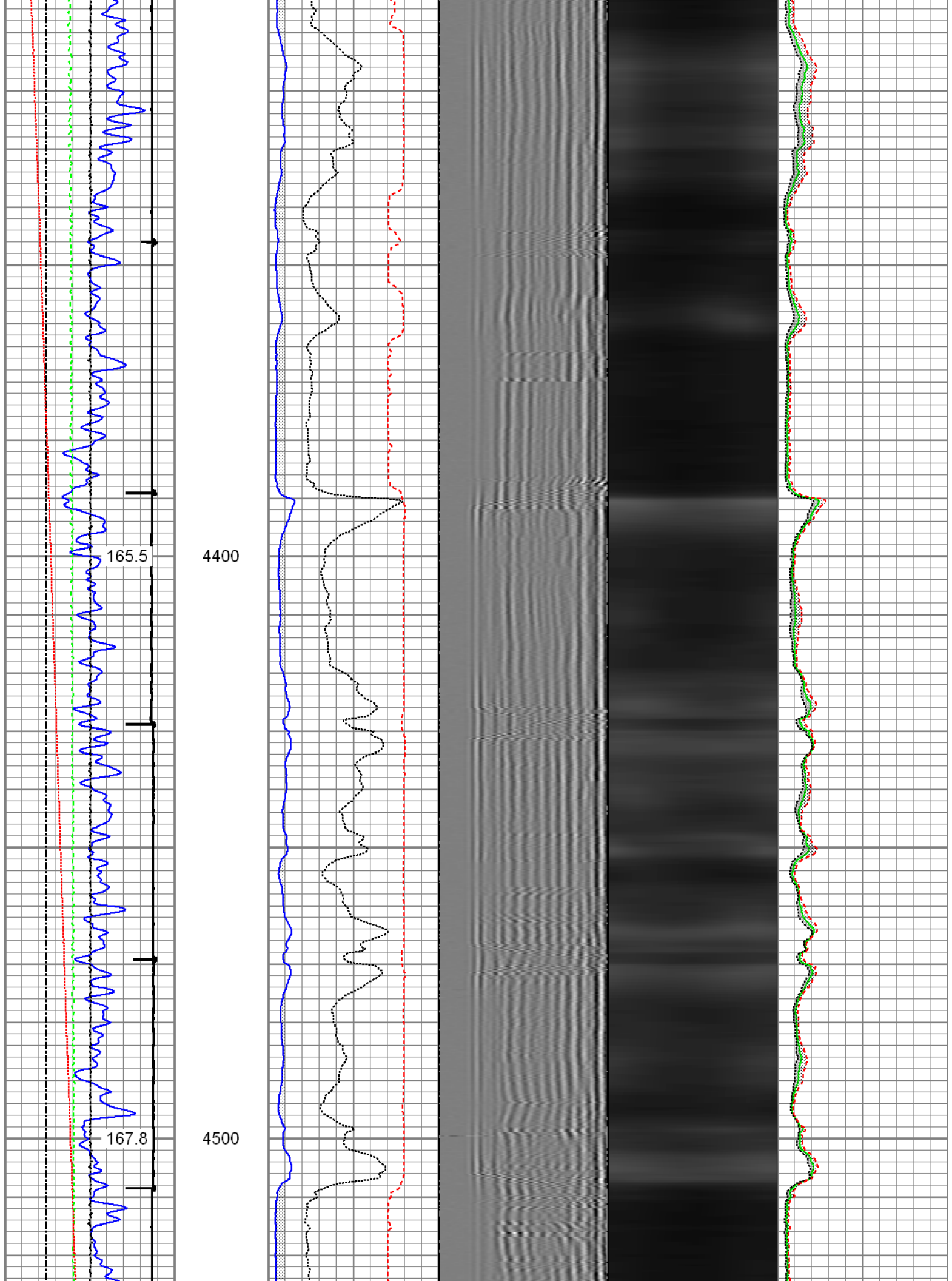


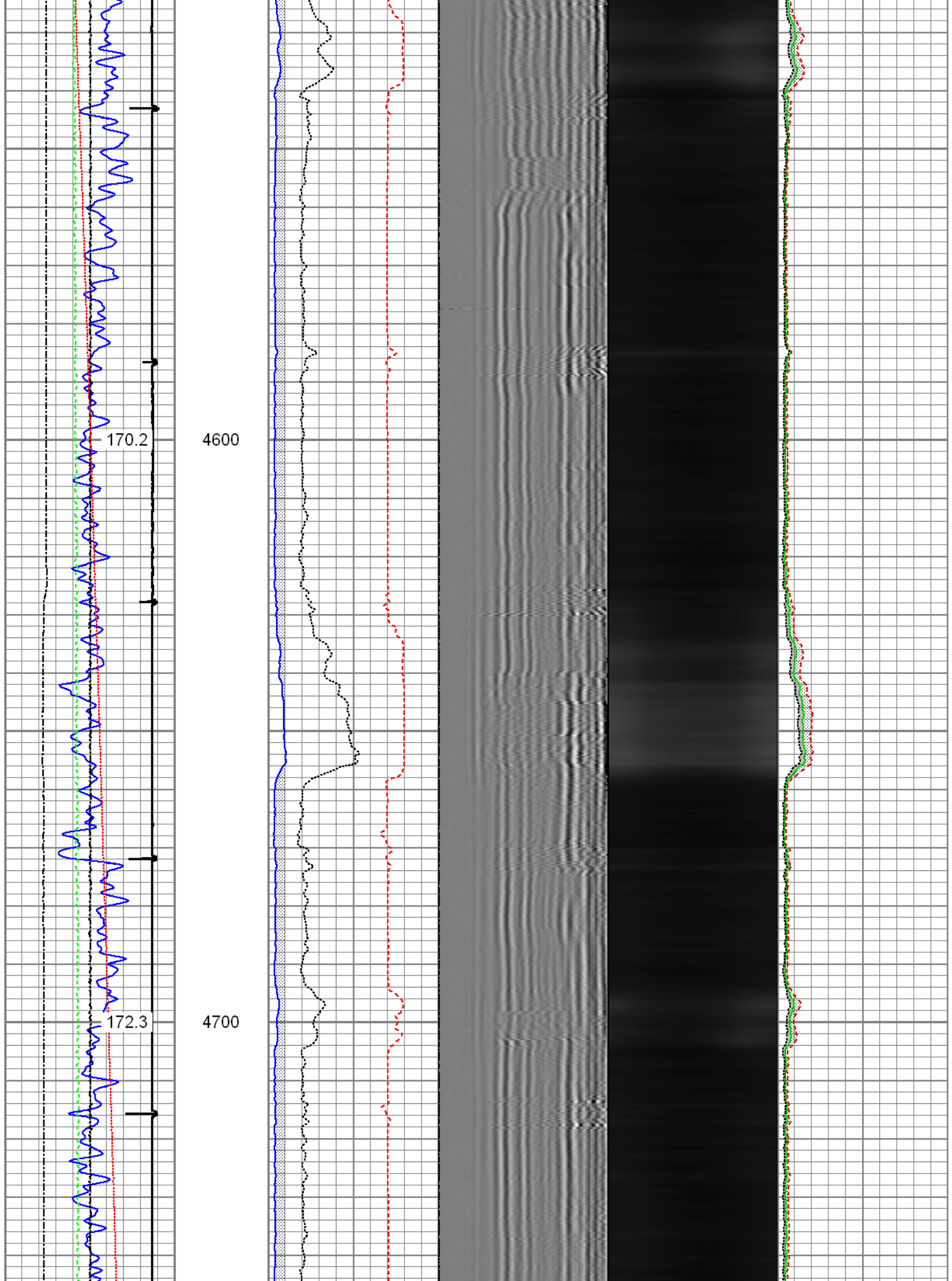


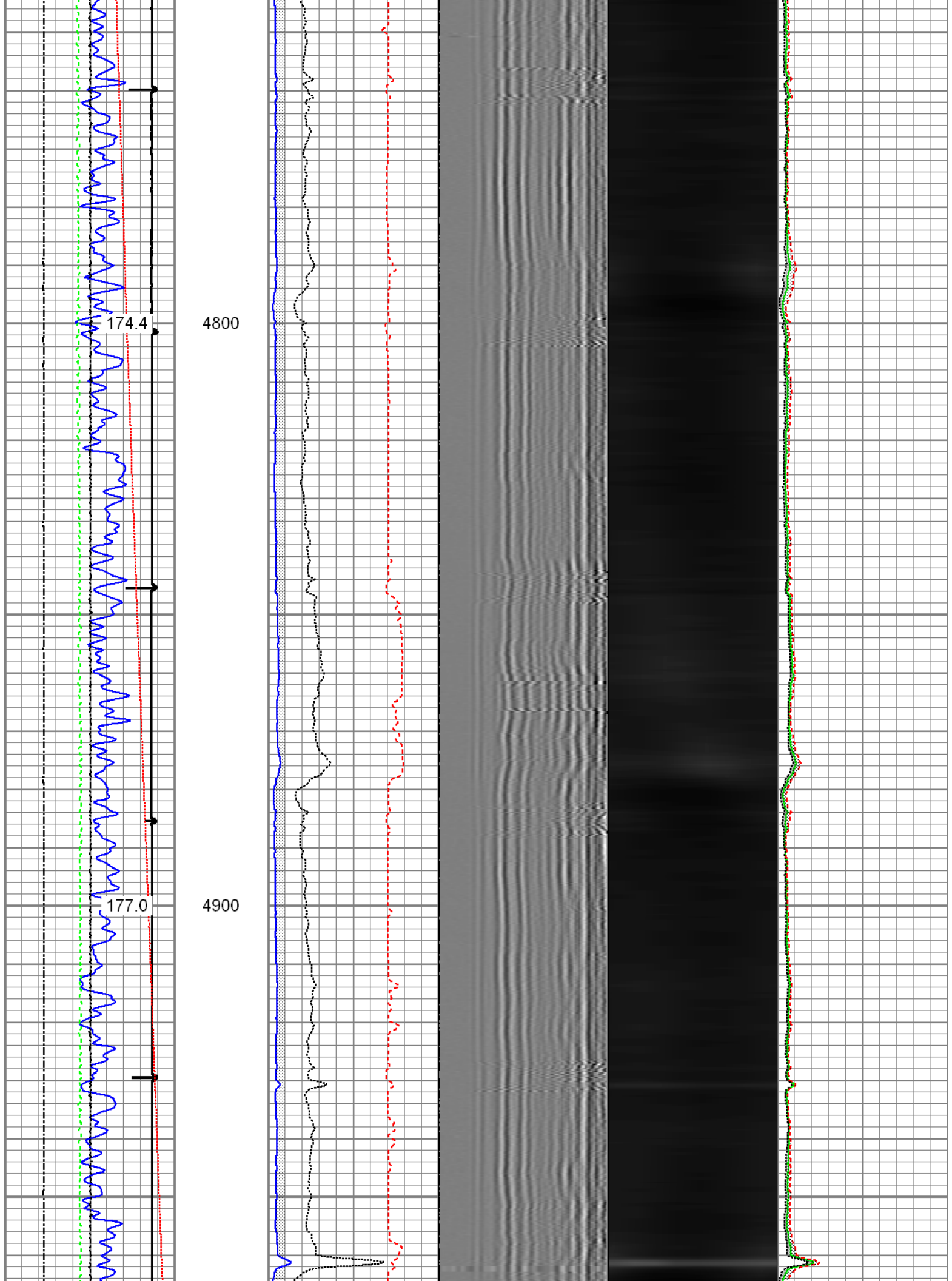


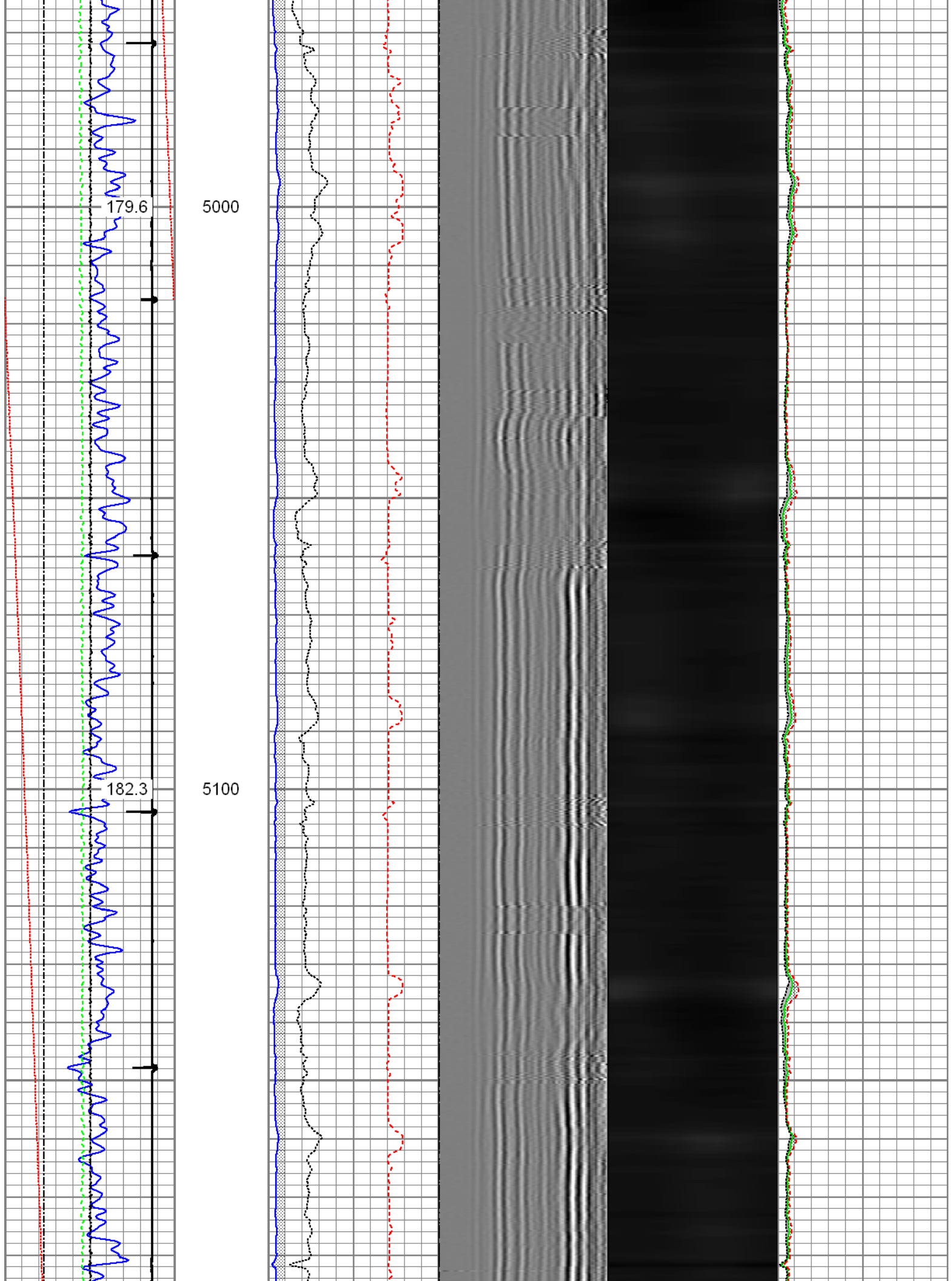


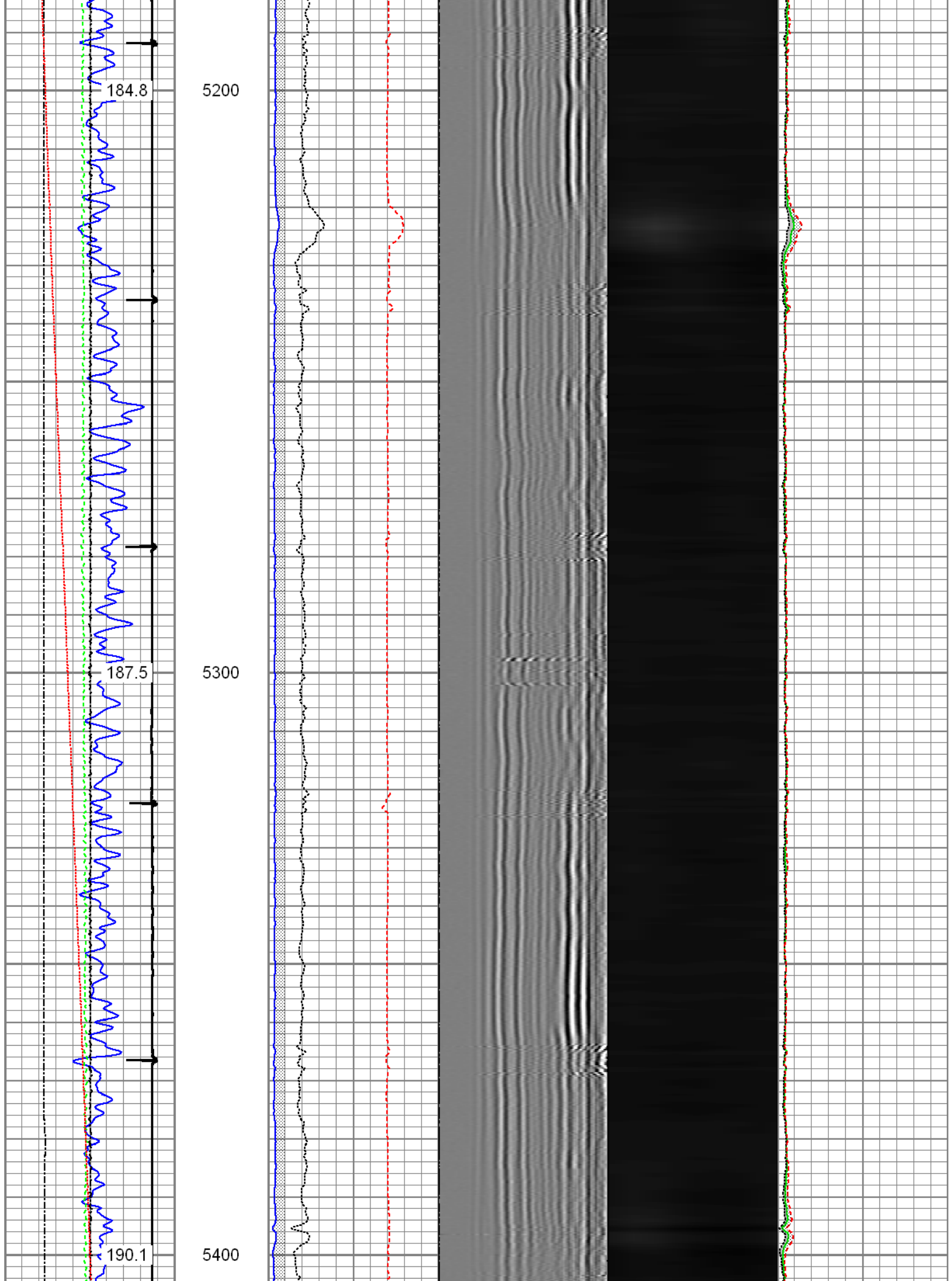


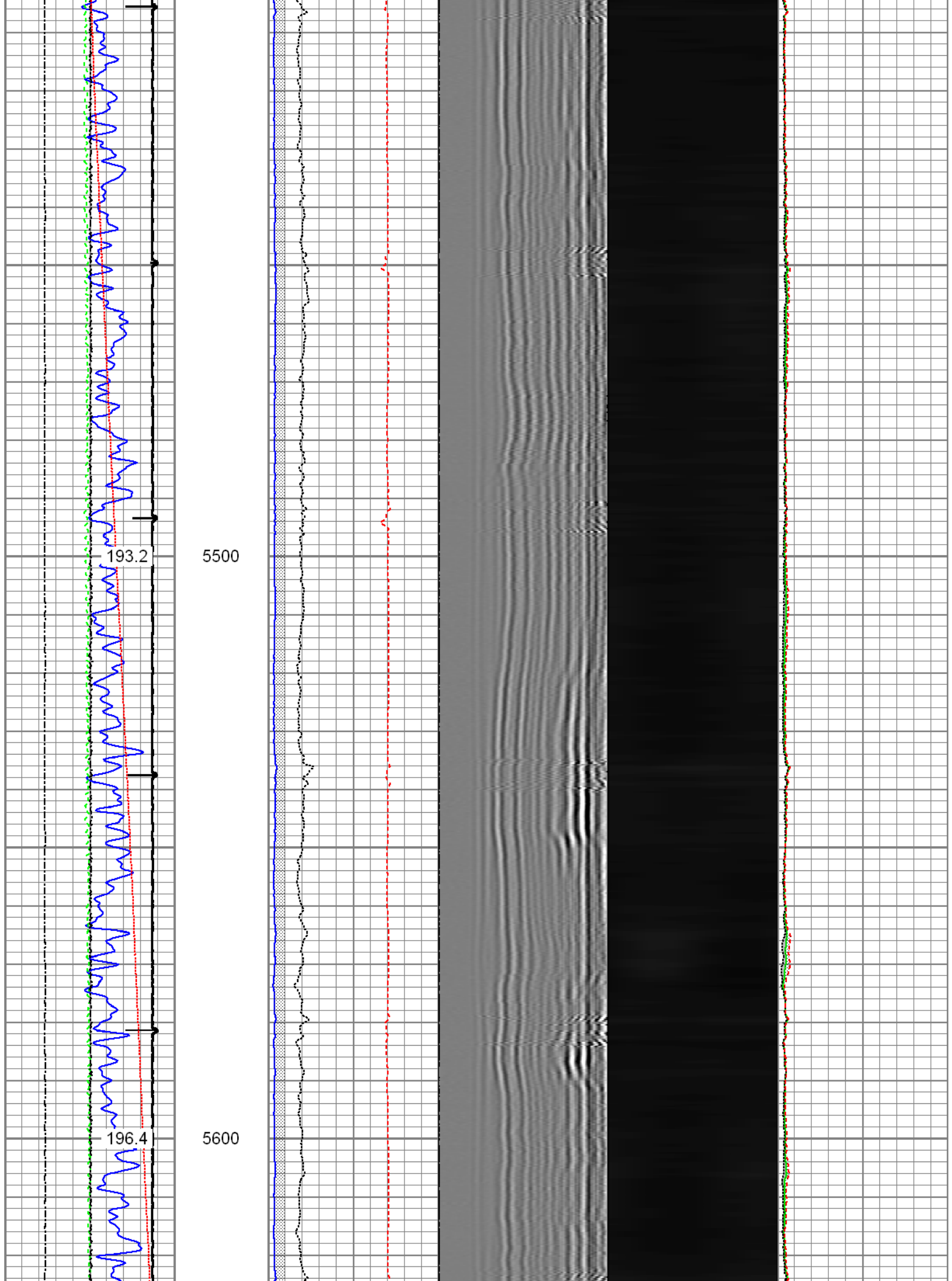


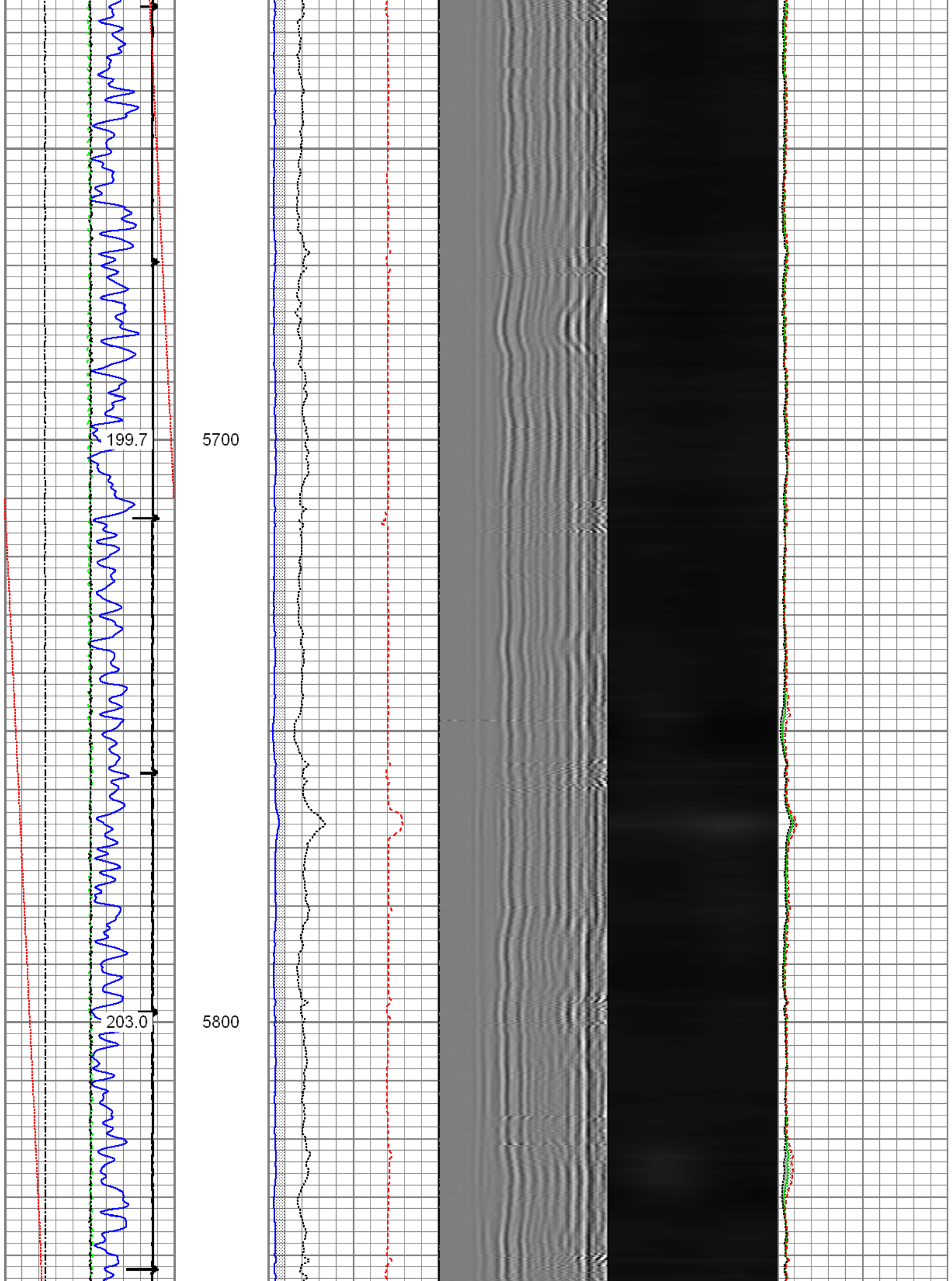


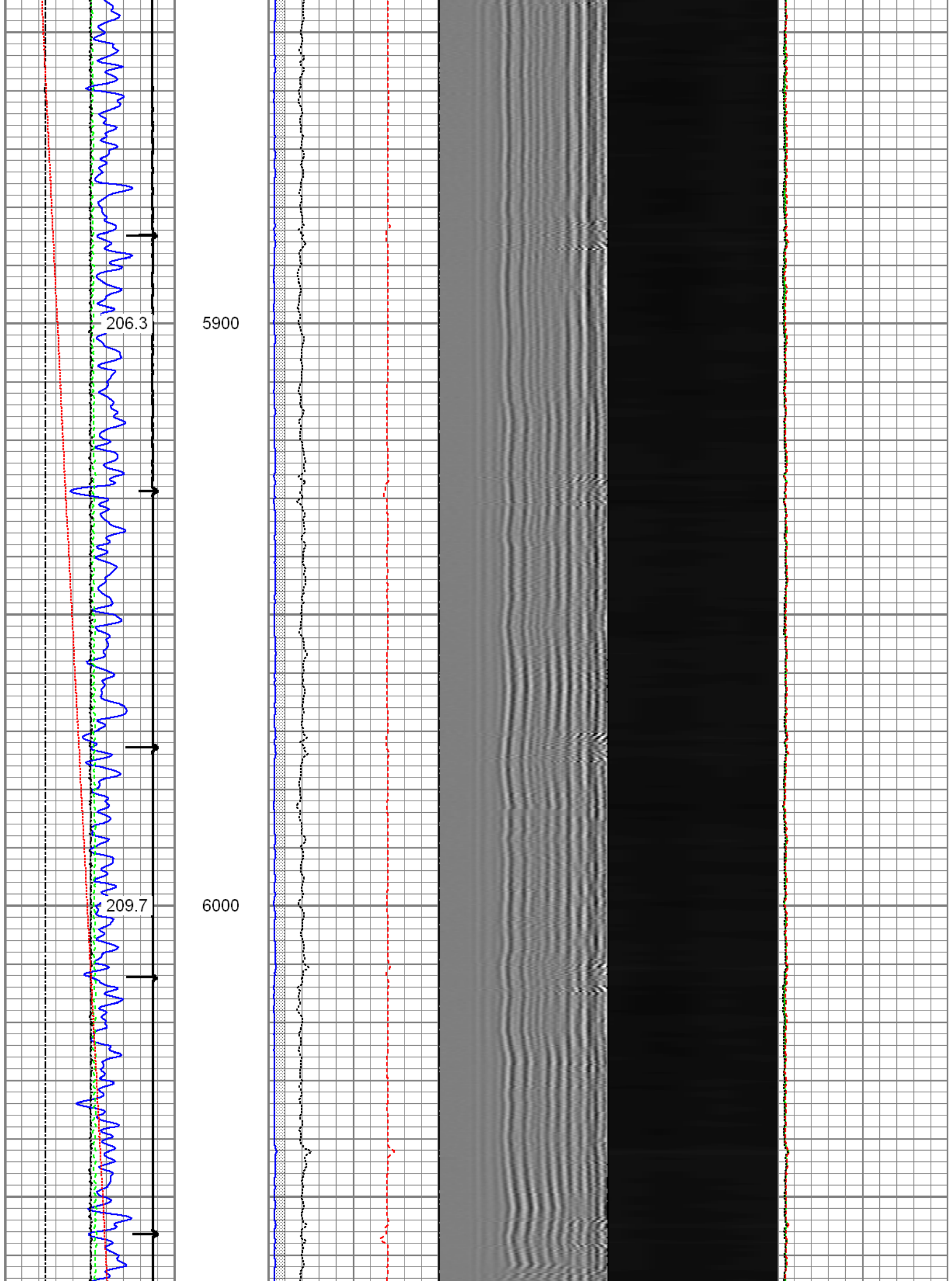


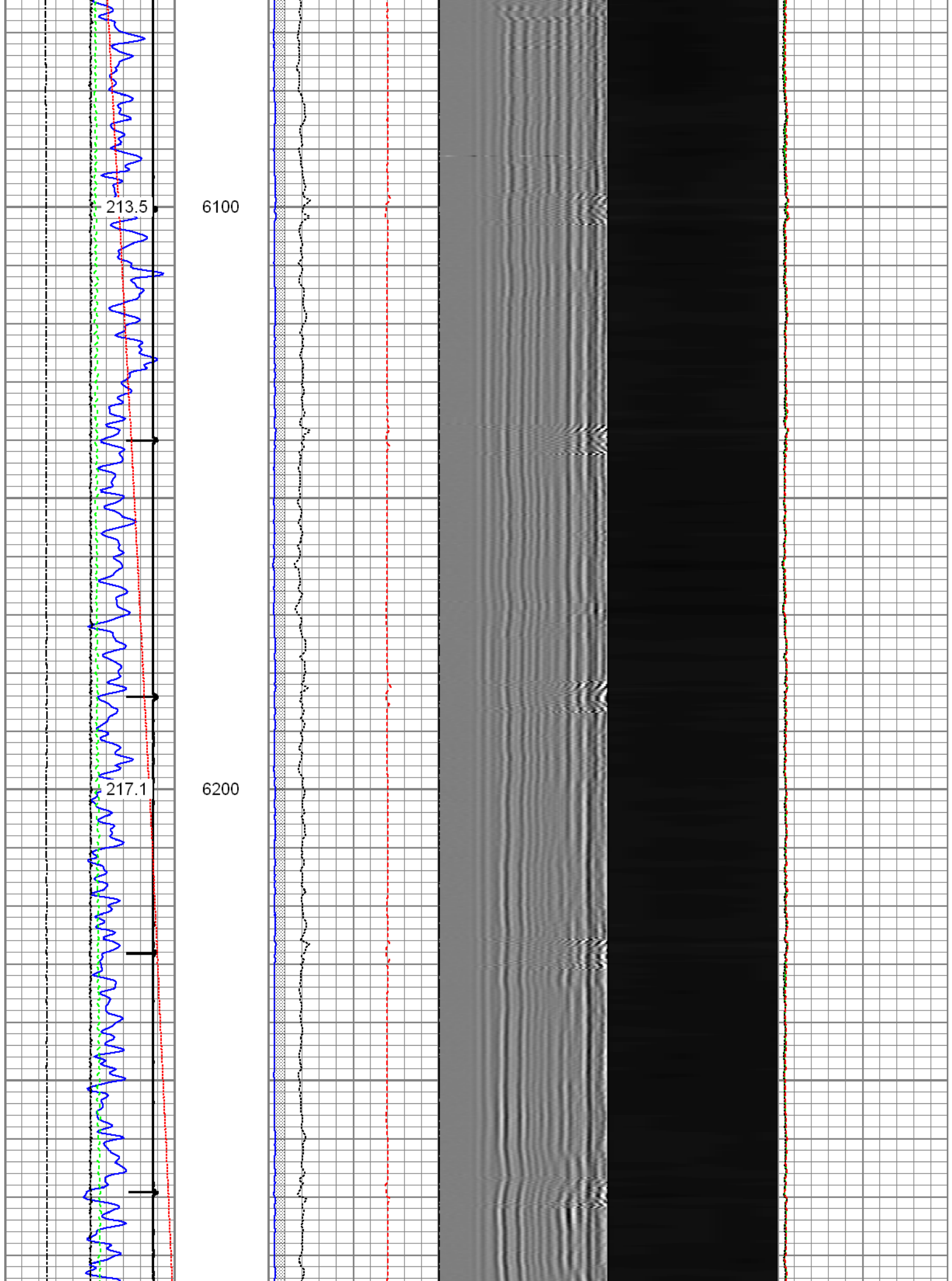


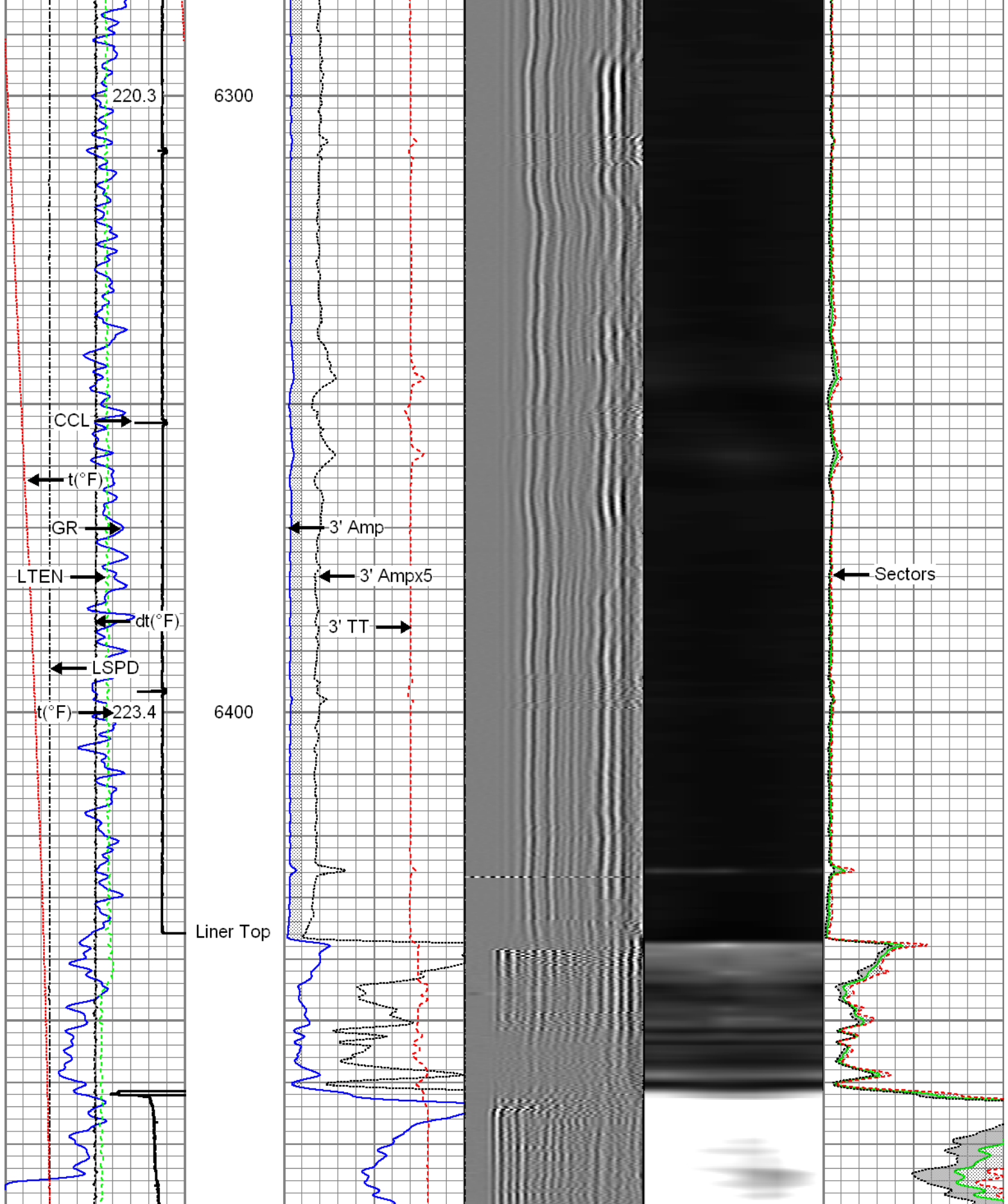













Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log	Sector Map	Average Amplitude
0 120	0 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5 (mV)			Minimum Amplitude
Line Speed (ft/min)	0 20			0 100
-100 100	3' Travel Time			Maximum Amplitude

Line Tension	650 (usec)	150	0	100
0 (lb) 2000				
Differential Temperature				
-2 (degF) 2				
Temperature				
0 (degF) 20				

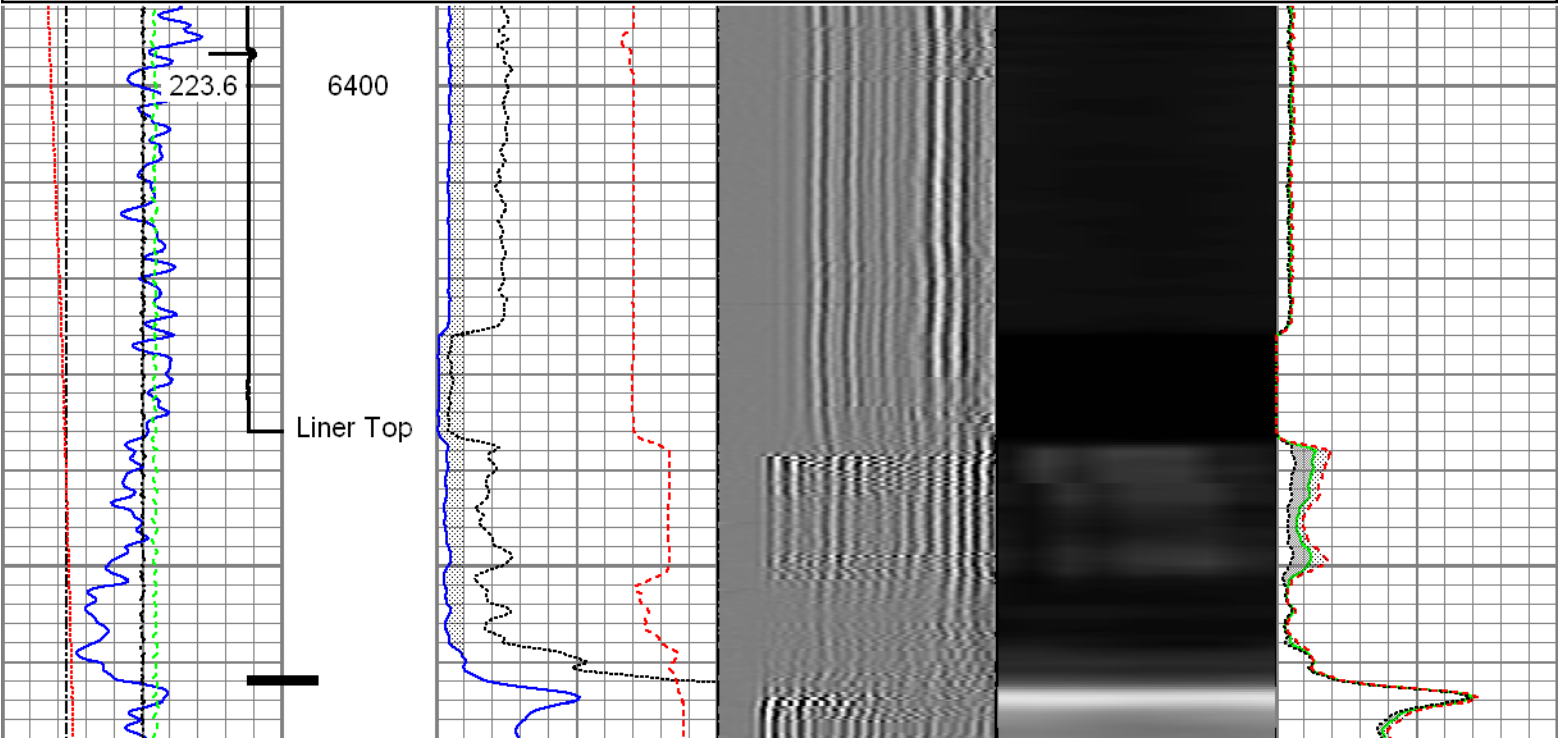


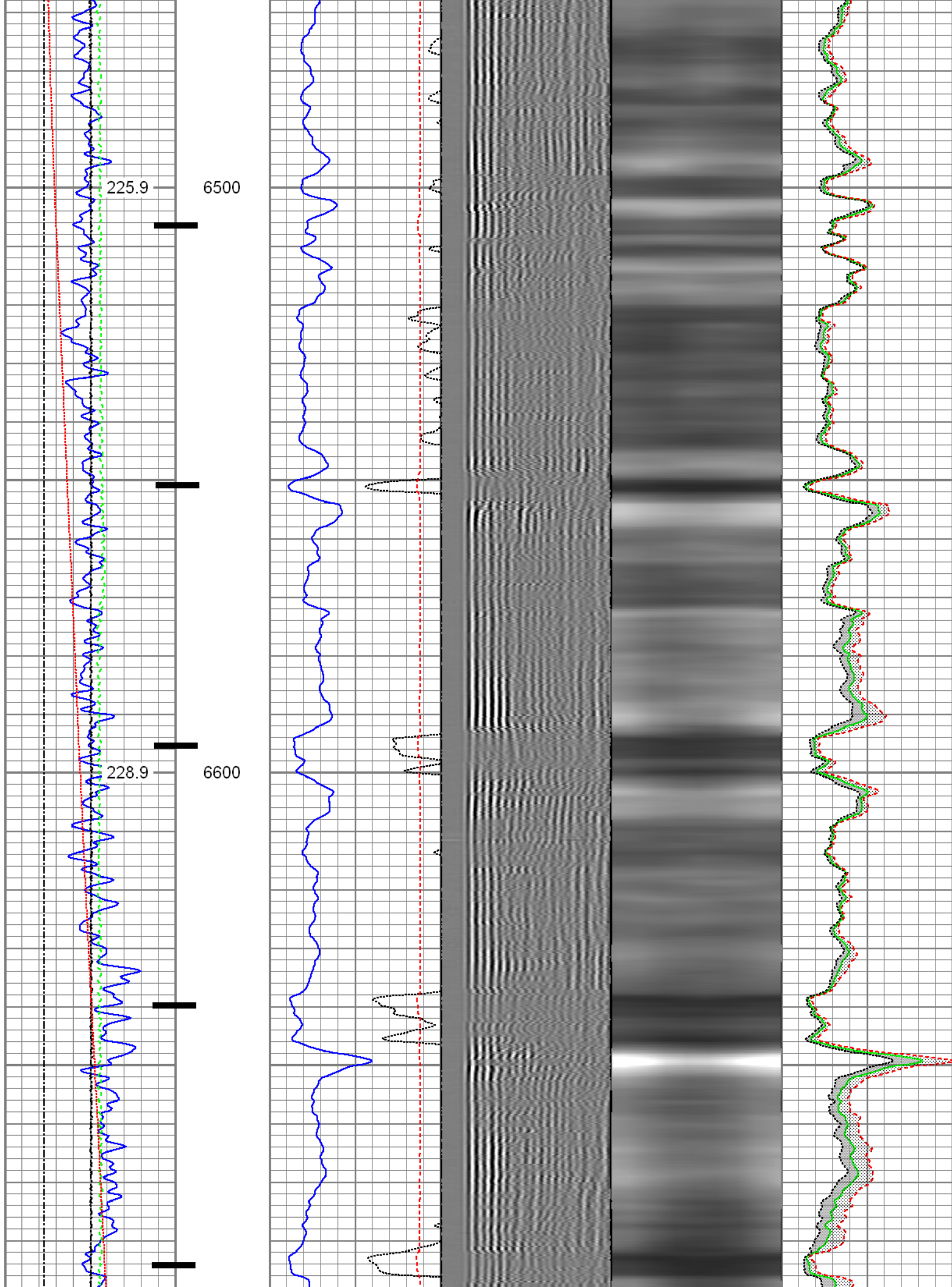
4.5" Main Pass

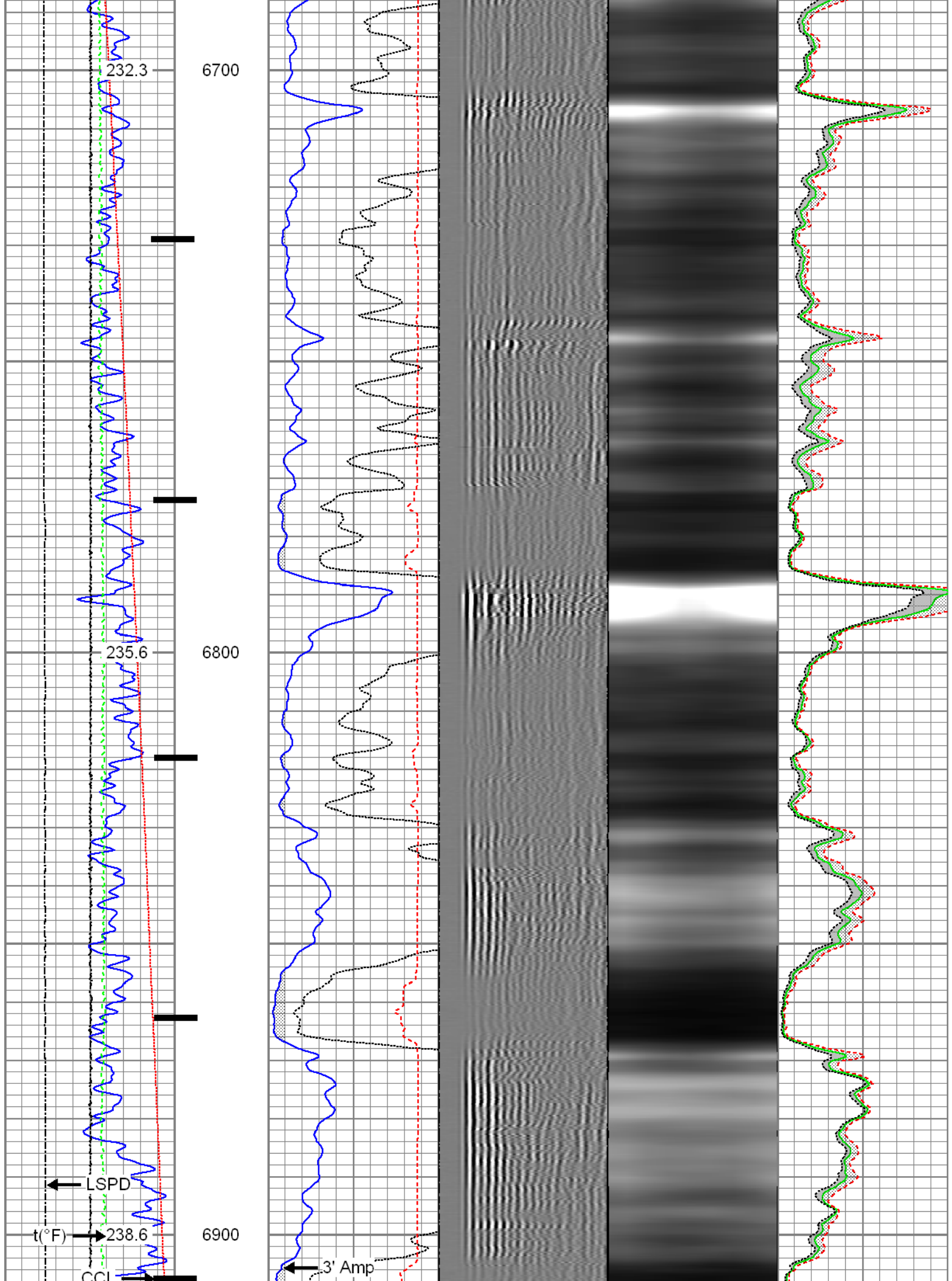
Recorded At 2800 PSI Surface Induced Pressure

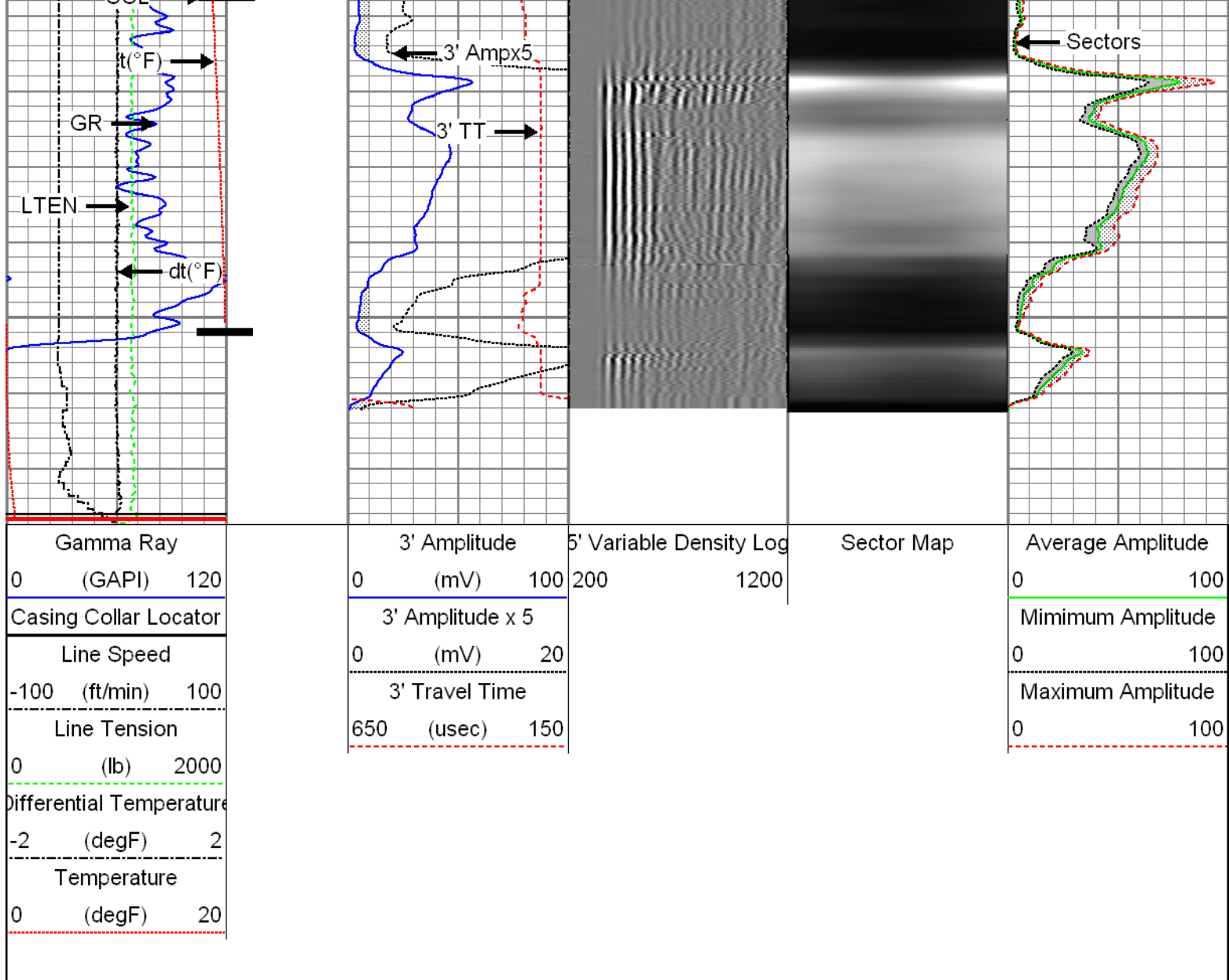
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Dataset Pathname: pass2
Presentation Format: rbt4_mit
Dataset Creation: Sun Mar 08 10:22:31 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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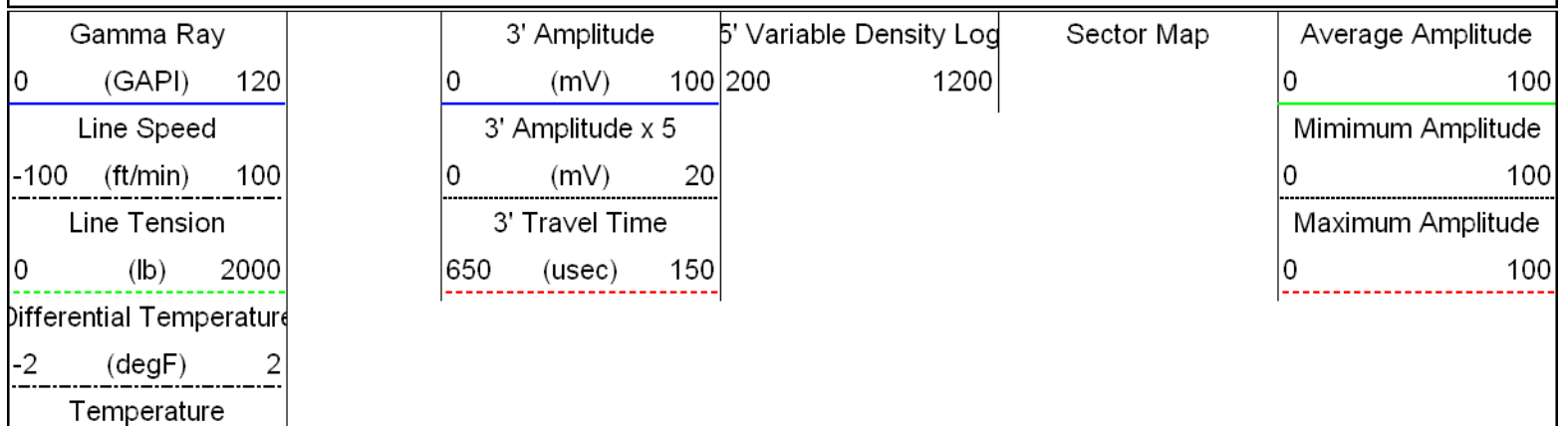


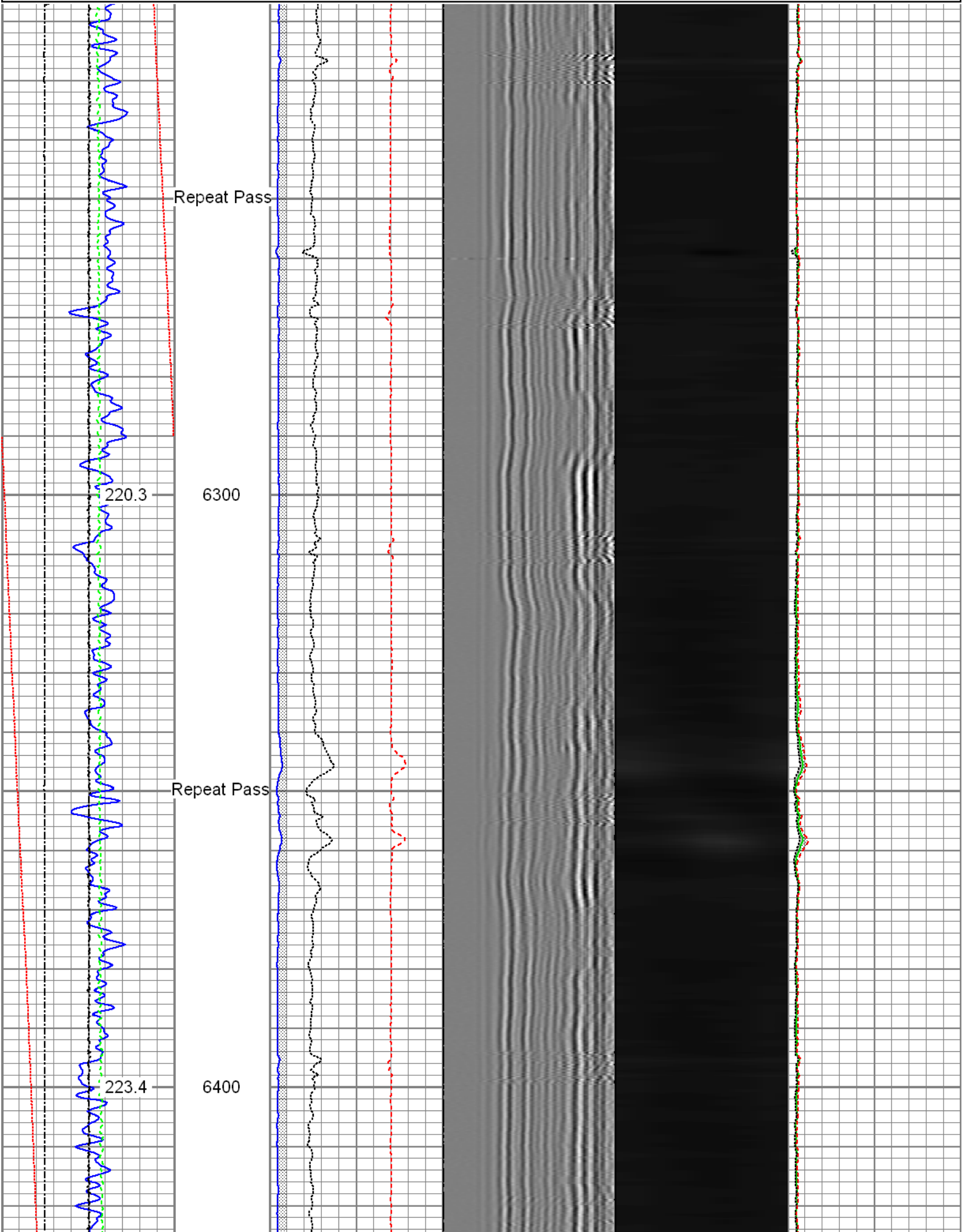


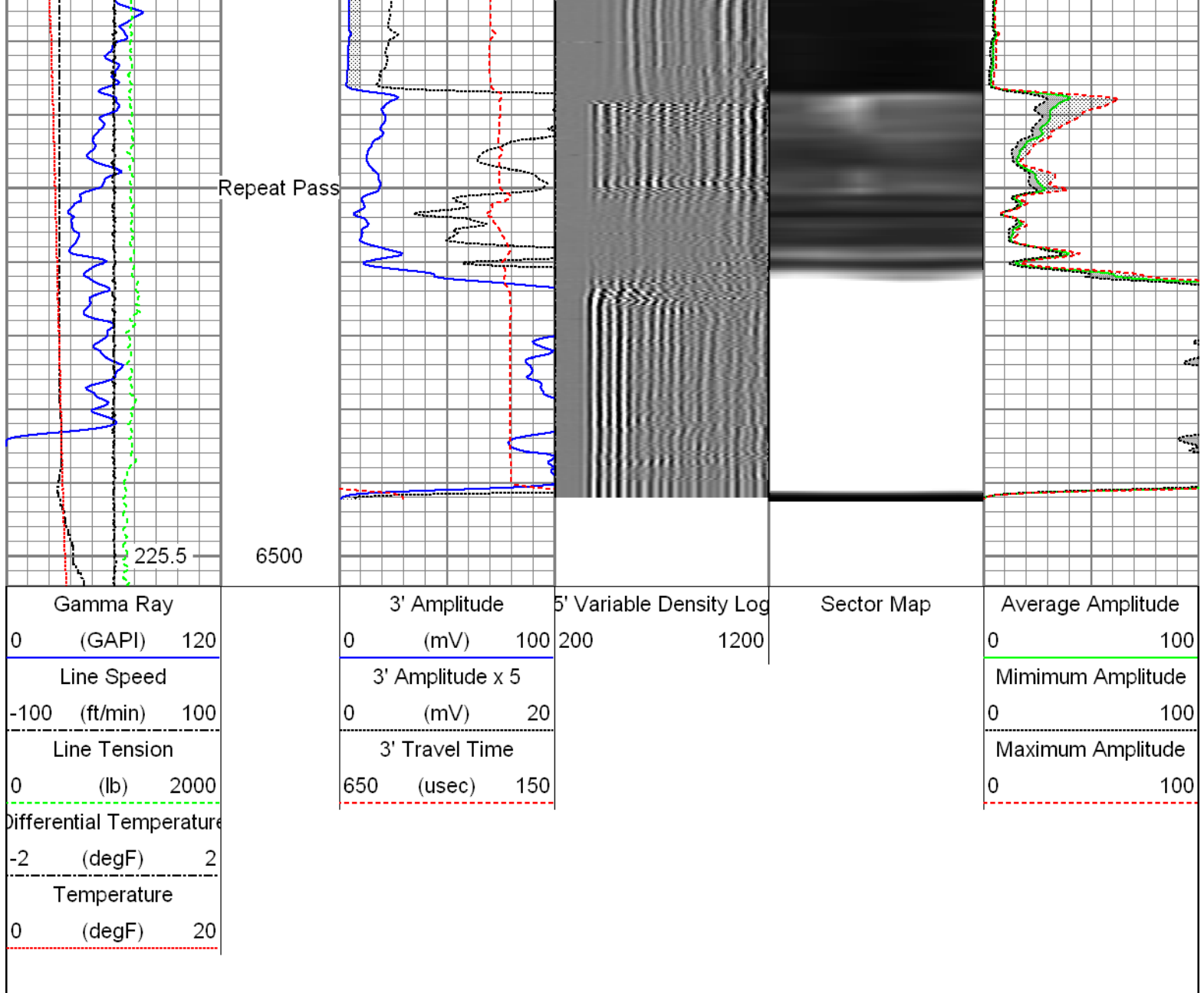
Repeat Pass

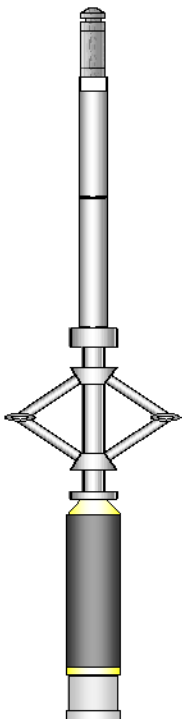
Recorded With 2800 PSI Surface Induced Pressure

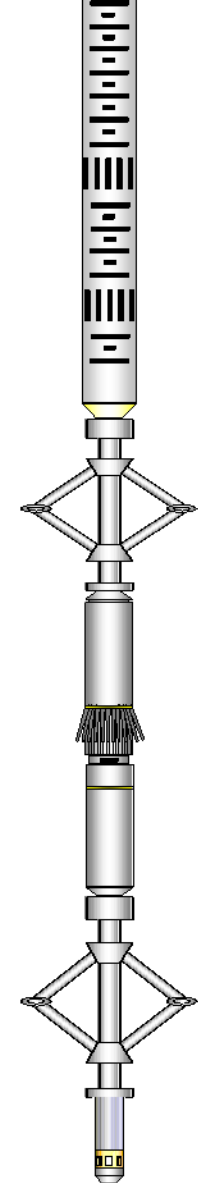
Database File: 0512340624_anadarko_greenleaf 27n-2hz_03-08-15_mit_rbl.db
 Dataset Pathname: pass4
 Presentation Format: rbt4_mit
 Dataset Creation: Sun Mar 08 10:37:37 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240







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 (10010519) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (211727) 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

WVF3FT	16.46		UW_RBT-UW_RBT_004 (1063) 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		UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
CBLROT	16.46					
WVF5FT	15.46					
MIT	6.45		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_PRT-UW_PRT_016 (10025097) Platinum Resistance Thermometer	1.04	1.69	5.20
TEMP	0.37		UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
TSTAMP	0.00					
Dataset: 0512340624_anadarko_greenleaf 27n-2hz_03-08-15_mit_rbl.db: field/well/run1/pass6.5 Total Length: 28.09 ft Total Weight: 324.50 lb O.D. 3.13 in						

Calibration Report						
Database File: 0512340624_anadarko_greenleaf 27n-2hz_03-08-15_mit_rbl.db						
Dataset Pathname: pass6.5						
Dataset Creation: Mon Mar 09 12:03:38 2015 by Calc SCH 120430						
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: 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: Sun Mar 08 10:50:51 2015

Ring size: (in)	4	Sens	5	Sens	6	Sens	7
Finger 01:	1081	343.0	1424	397.0	1821	402.0	2223
Finger 02:	1033	346.0	1379	414.0	1793	428.0	2221
Finger 03:	1034	338.0	1372	397.0	1769	417.0	2186
Finger 04:	1003	349.0	1352	421.0	1773	442.0	2215
Finger 05:	1009	331.0	1340	390.0	1730	406.0	2136
Finger 06:	1019	345.0	1364	407.0	1771	428.0	2199
Finger 07:	1025	343.0	1368	397.0	1765	419.0	2184
Finger 08:	993	342.0	1335	409.0	1744	437.0	2181
Finger 09:	1070	350.0	1420	399.0	1819	410.0	2229
Finger 10:	1058	351.0	1409	403.0	1812	420.0	2232
Finger 11:	1003	346.0	1349	402.0	1751	428.0	2179
Finger 12:	1111	345.0	1456	380.0	1836	392.0	2228
Finger 13:	1058	344.0	1402	397.0	1799	426.0	2225
Finger 14:	1028	358.0	1386	413.0	1799	438.0	2237
Finger 15:	1001	357.0	1358	415.0	1773	440.0	2213
Finger 16:	1039	353.0	1392	403.0	1795	428.0	2223
Finger 17:	1088	349.0	1437	390.0	1827	407.0	2234
Finger 18:	1132	353.0	1485	395.0	1880	411.0	2291
Finger 19:	1082	358.0	1440	404.0	1844	419.0	2263
Finger 20:	1012	355.0	1367	410.0	1777	435.0	2212
Finger 21:	1076	349.0	1425	394.0	1819	413.0	2232
Finger 22:	1067	354.0	1421	401.0	1822	416.0	2238
Finger 23:	1124	356.0	1480	401.0	1881	415.0	2296
Finger 24:	1090	324.0	1414	375.0	1789	387.0	2176
Finger 25:	1112	363.0	1475	409.0	1884	414.0	2298
Finger 26:	1060	345.0	1405	398.0	1803	412.0	2215
Finger 27:	1235	368.0	1603	409.0	2012	410.0	2422
Finger 28:	1103	341.0	1444	390.0	1834	405.0	2239
Finger 29:	1047	347.0	1394	406.0	1800	420.0	2220
Finger 30:	1017	344.0	1361	408.0	1769	423.0	2192
Finger 31:	1243	372.0	1615	417.0	2032	417.0	2449
Finger 32:	1027	343.0	1370	395.0	1765	401.0	2166
Finger 33:	1207	381.0	1588	431.0	2019	437.0	2456
Finger 34:	991	340.0	1331	403.0	1734	413.0	2147
Finger 35:	1139	365.0	1504	422.0	1926	425.0	2351
Finger 36:	1033	326.0	1359	383.0	1742	393.0	2135
Finger 37:	1082	348.0	1430	411.0	1841	417.0	2258
Finger 38:	1086	339.0	1425	393.0	1818	402.0	2220
Finger 39:	1060	326.0	1386	382.0	1768	389.0	2157

Finger 33: 1000 328.0 1368 382.0 1768 385.0 2157
Finger 40: 985 352.0 1337 425.0 1762 441.0 2203

Segmented Cement Bond Log Calibration Report

Serial Number: 1063
Tool Model: UW_RBT_004

Calibration Casing Diameter: 5.500 in
Calibration Depth: -32.528 ft

Master Calibration, performed Mon Mar 09 12:03:36 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.003	0.759	1.000	66.125	86.203	0.730
5FT	0.004	0.777	1.000	66.125	84.208	0.672
S1	0.003	0.820	0.000	100.000	122.492	-0.421
S2	0.002	0.837	0.000	100.000	119.897	-0.299
S3	0.002	0.827	0.000	100.000	121.318	-0.288
S4	0.004	0.828	0.000	100.000	121.406	-0.496
S5	0.006	0.804	0.000	100.000	125.252	-0.735
S6	0.005	0.783	0.000	100.000	128.615	-0.672
S7	0.005	0.786	0.000	100.000	128.045	-0.585
S8	0.004	0.793	0.000	100.000	126.869	-0.551

Gamma Ray Calibration Report

Serial Number: 211727
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 Greenleaf 27N-2HZ
Field Wattenberg
County Weld
State Colorado