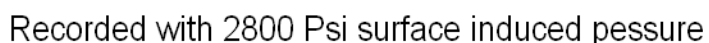




<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Kelly Bushing. Log ran from as deep as possible to surface. Log ran with 2800 PSI surface induced pressure. Adjusted +28 FT to adjust to KB. Logging Tools were clean and free of debris upon retrieval of the tools  Thank you for Choosing FMC Technologies Completion Services, Inc.!!



Database File:0512339439\_anadarko\_front range farms 37c-14hz\_01-17-15\_mt\_rbl.db

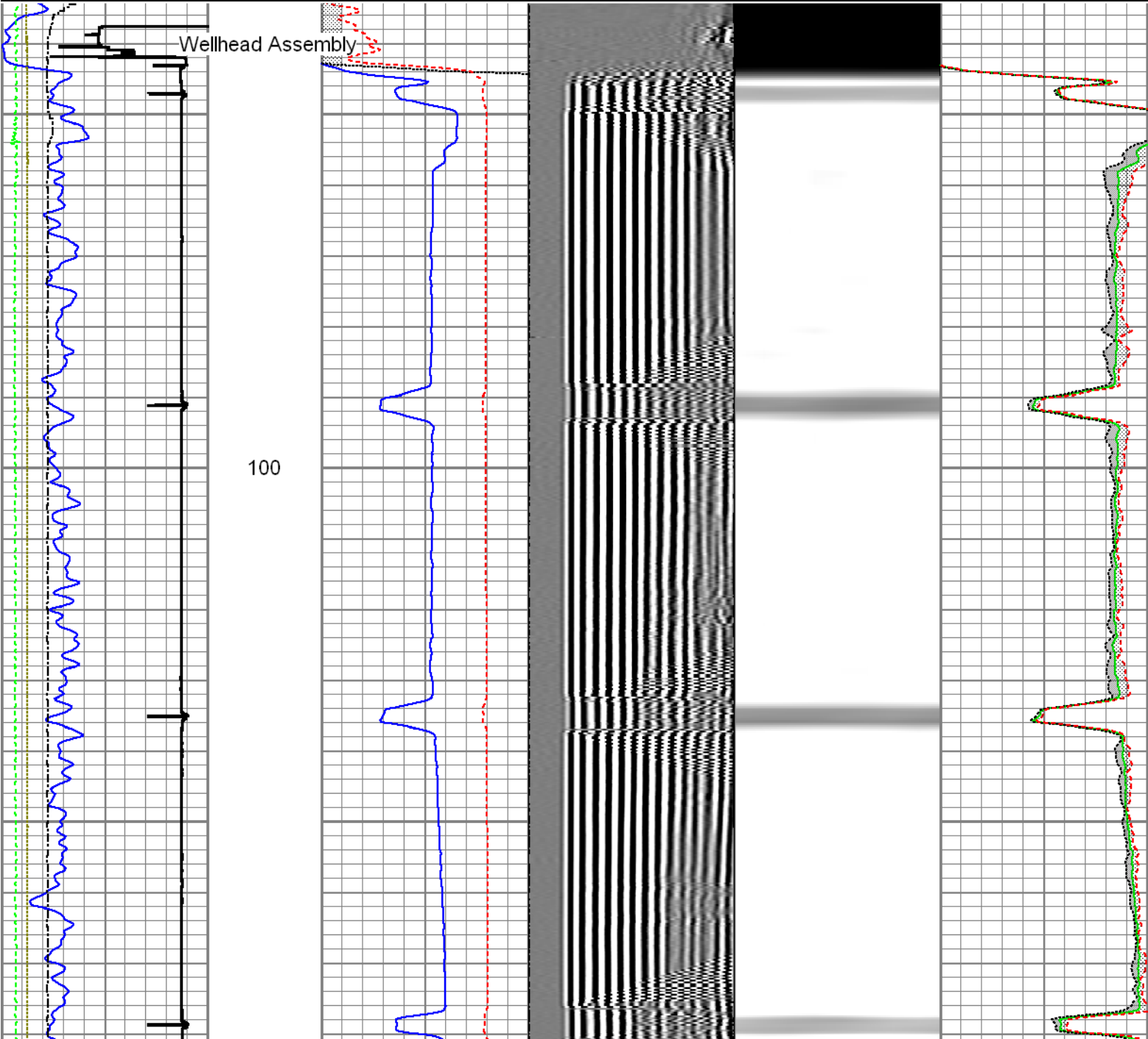
Dataset Pathname:pass12.1

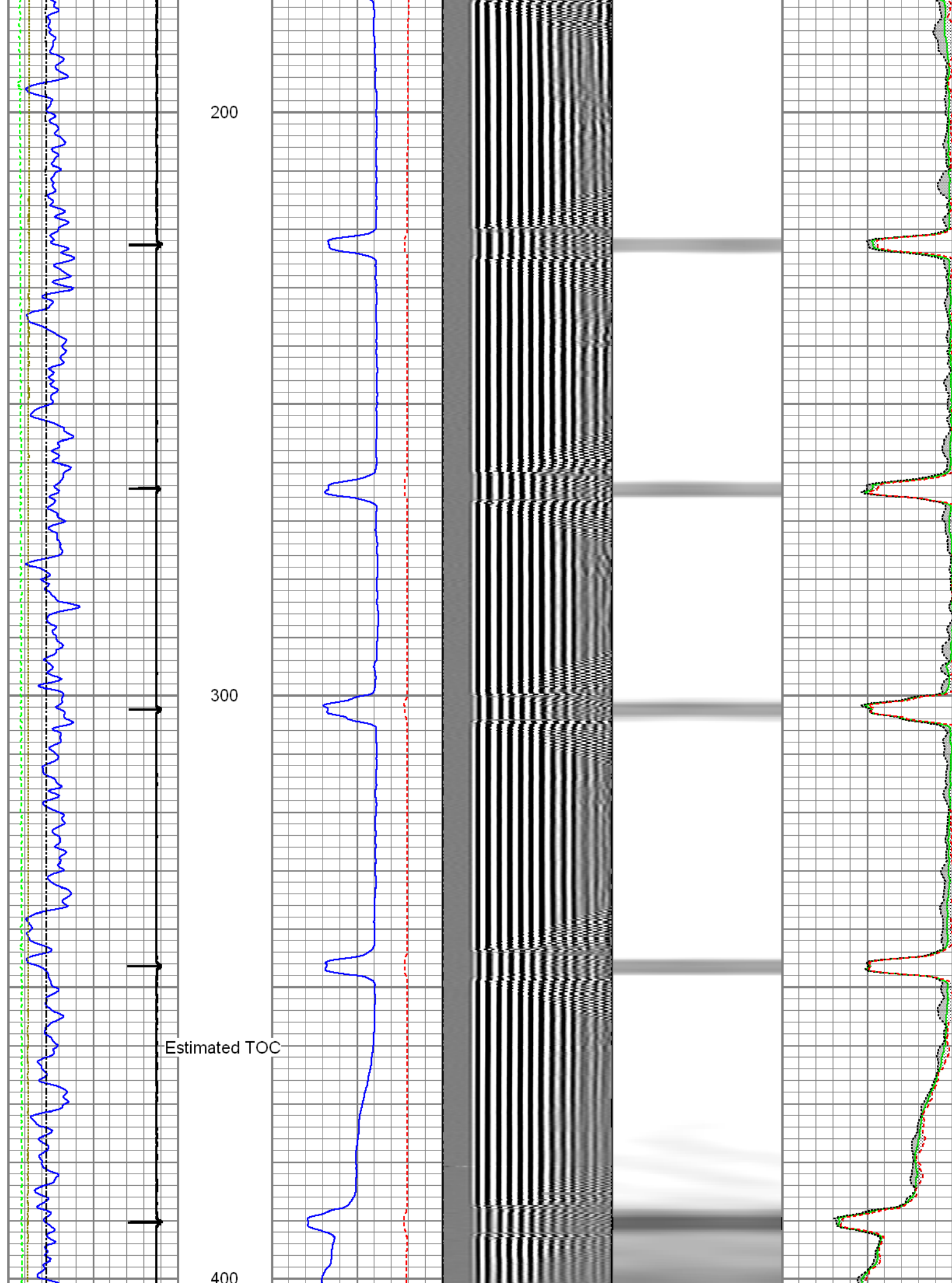
Presentation Format:rbt4\_mit

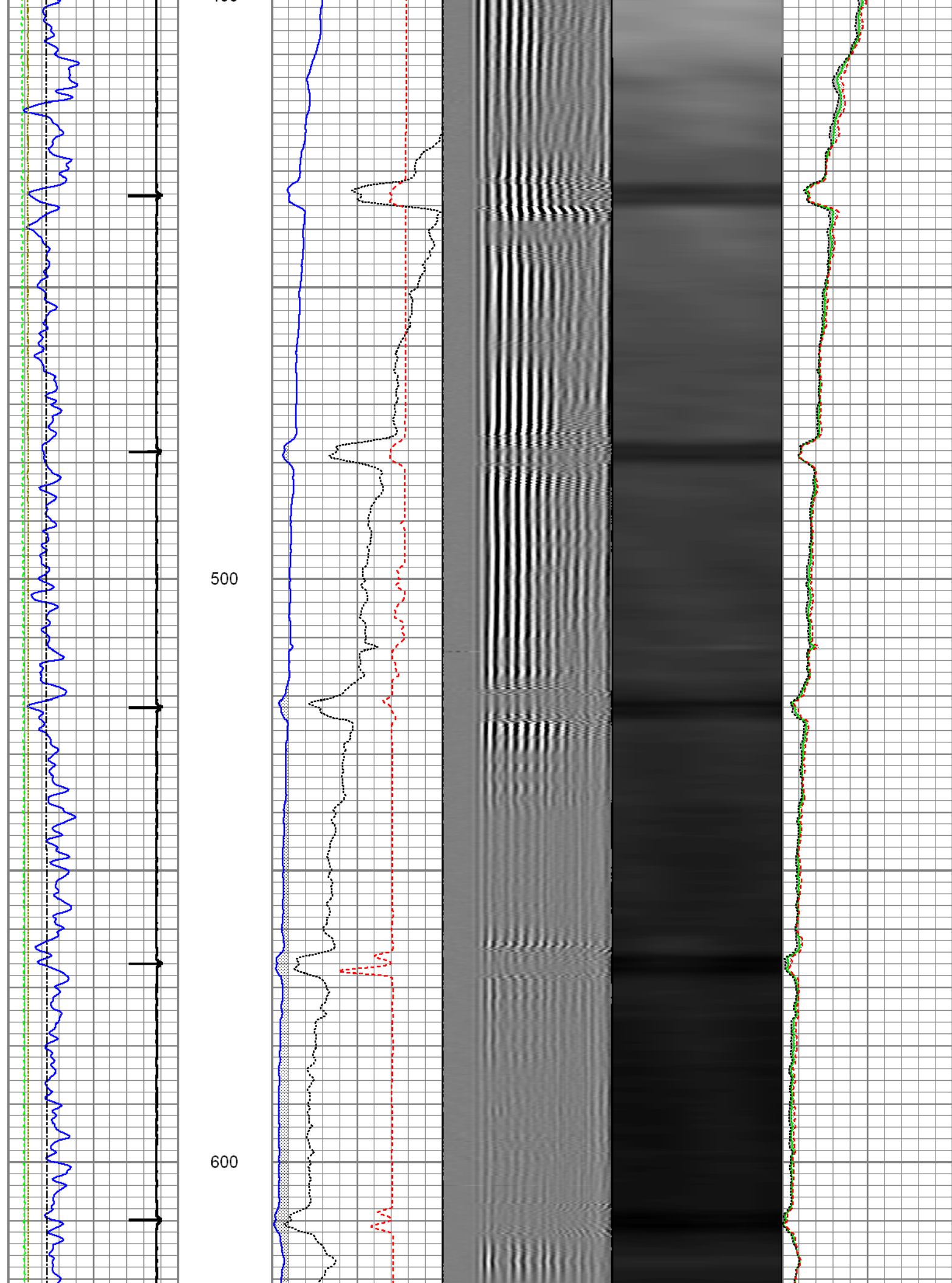
Dataset Creation:Mon Jan 19 09:49:52 2015 by Calc SCH 120430

Charted by:Depth in Feet scaled 1:240

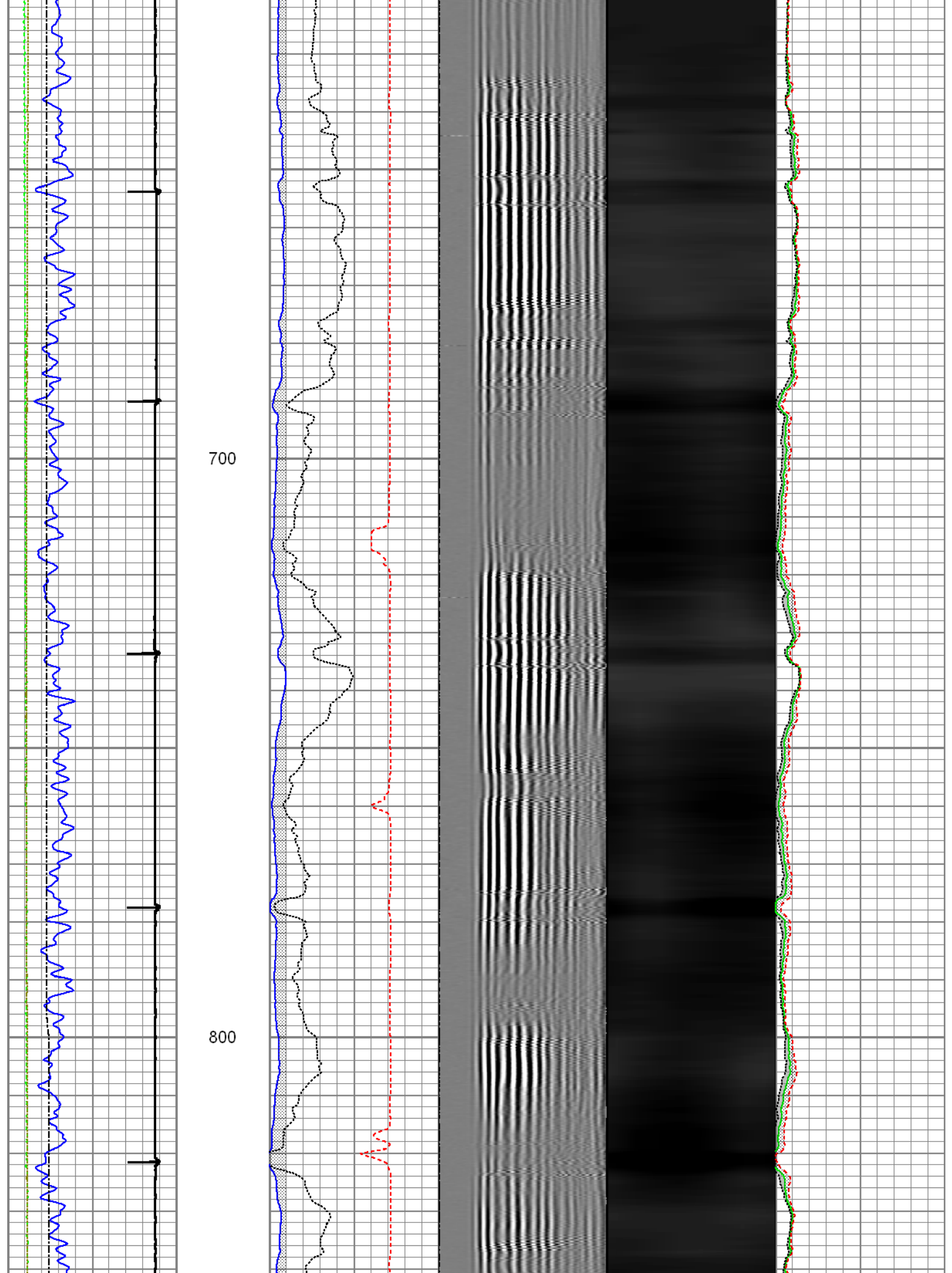
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000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

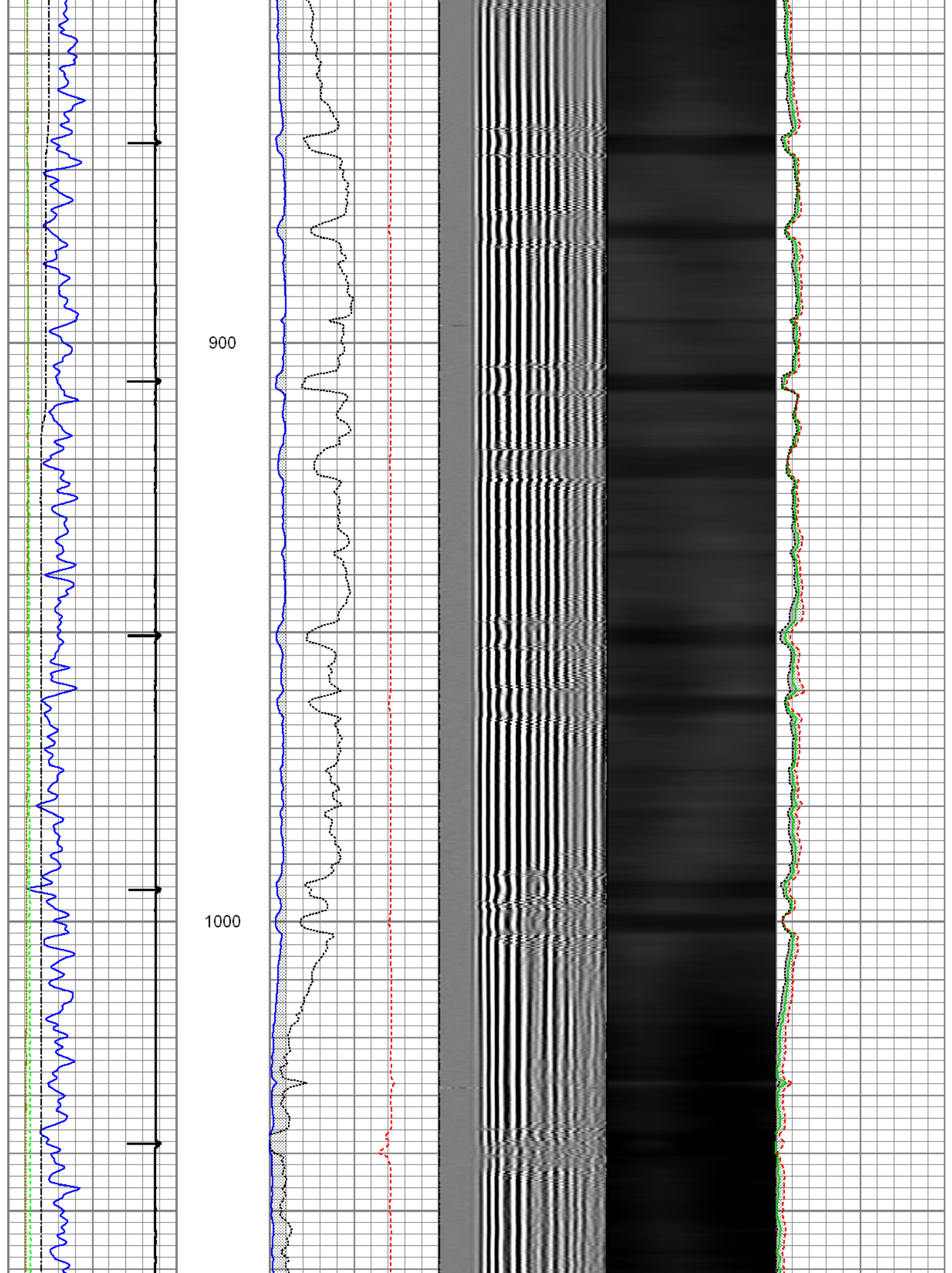


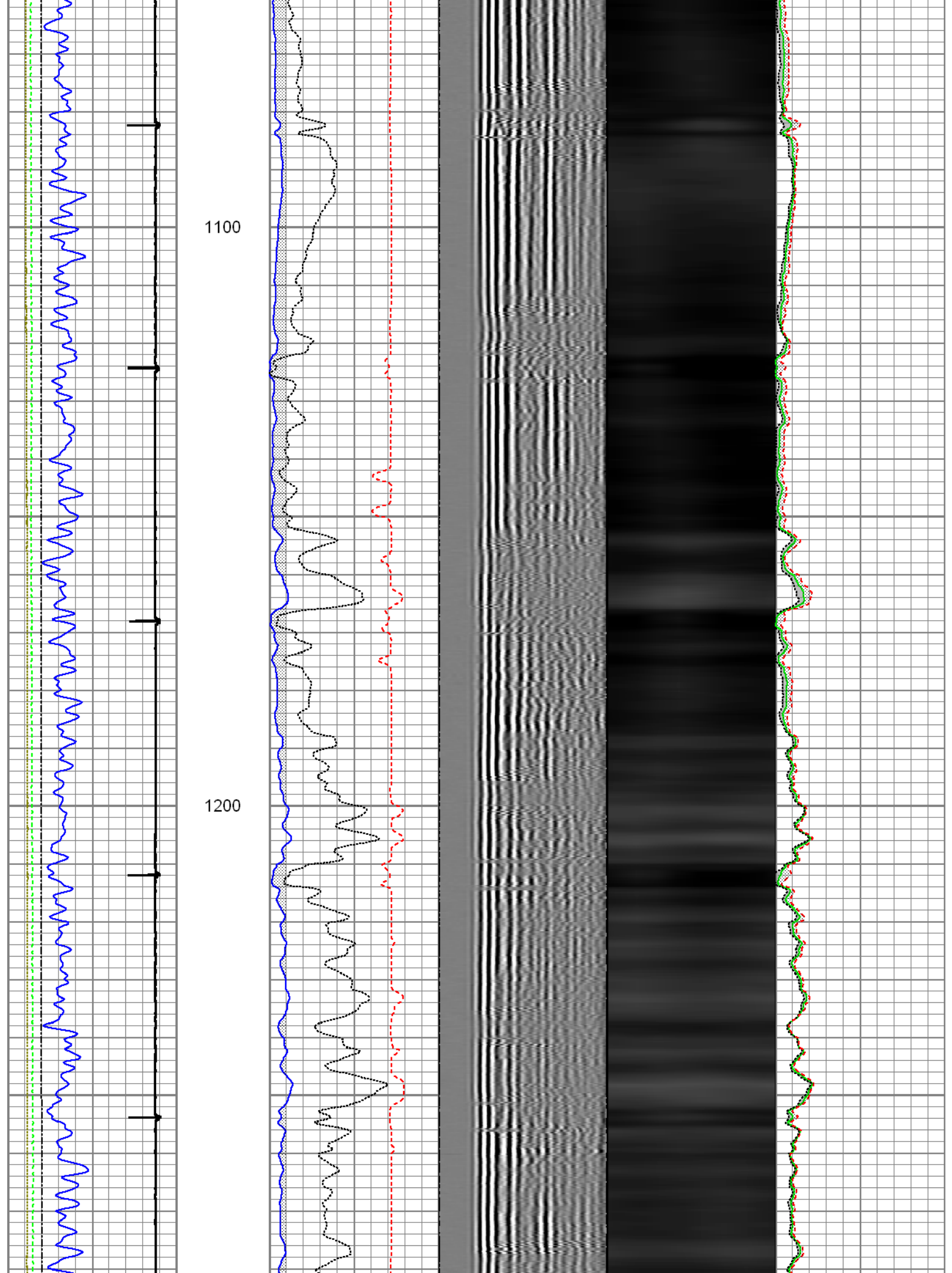


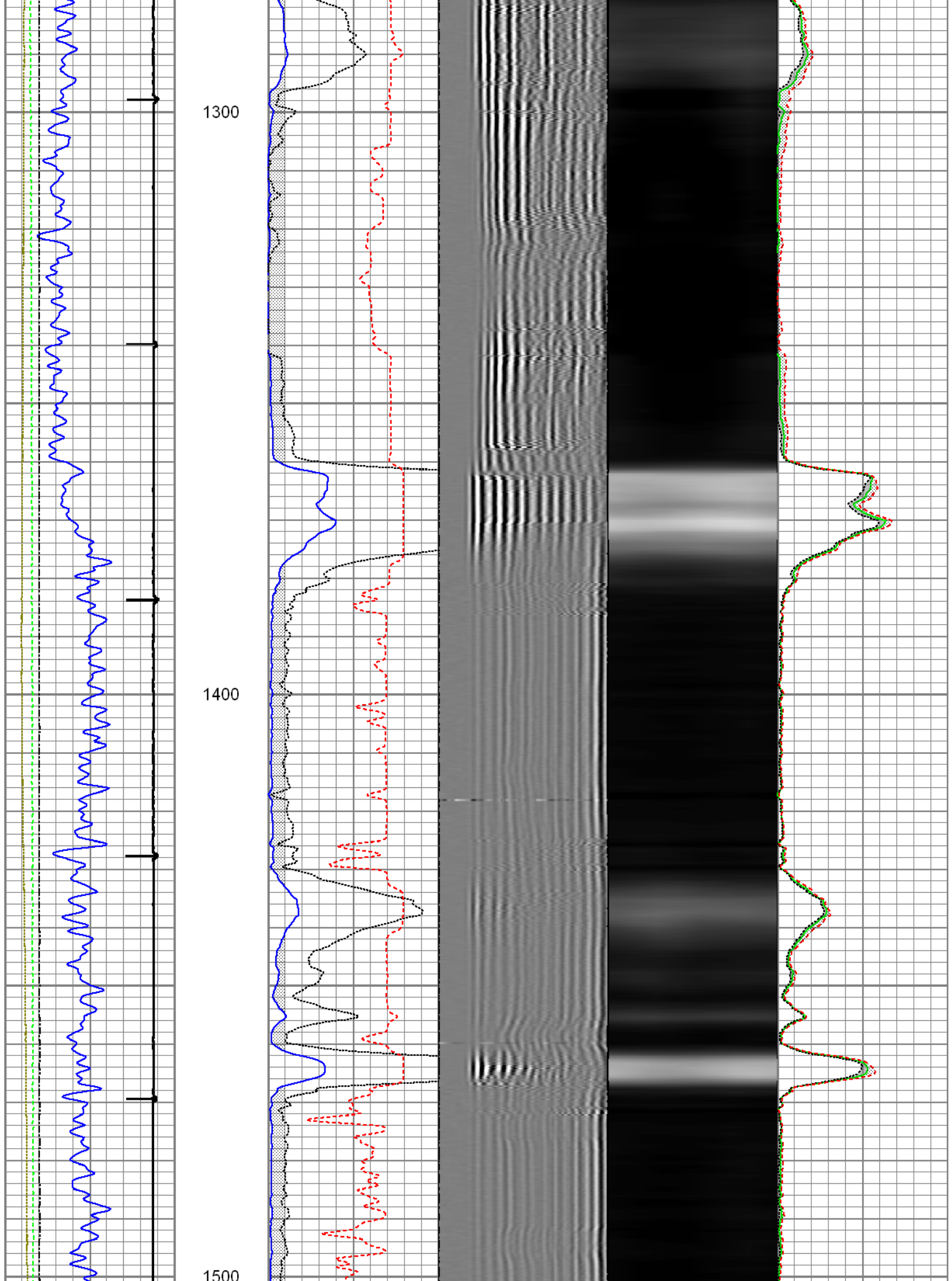




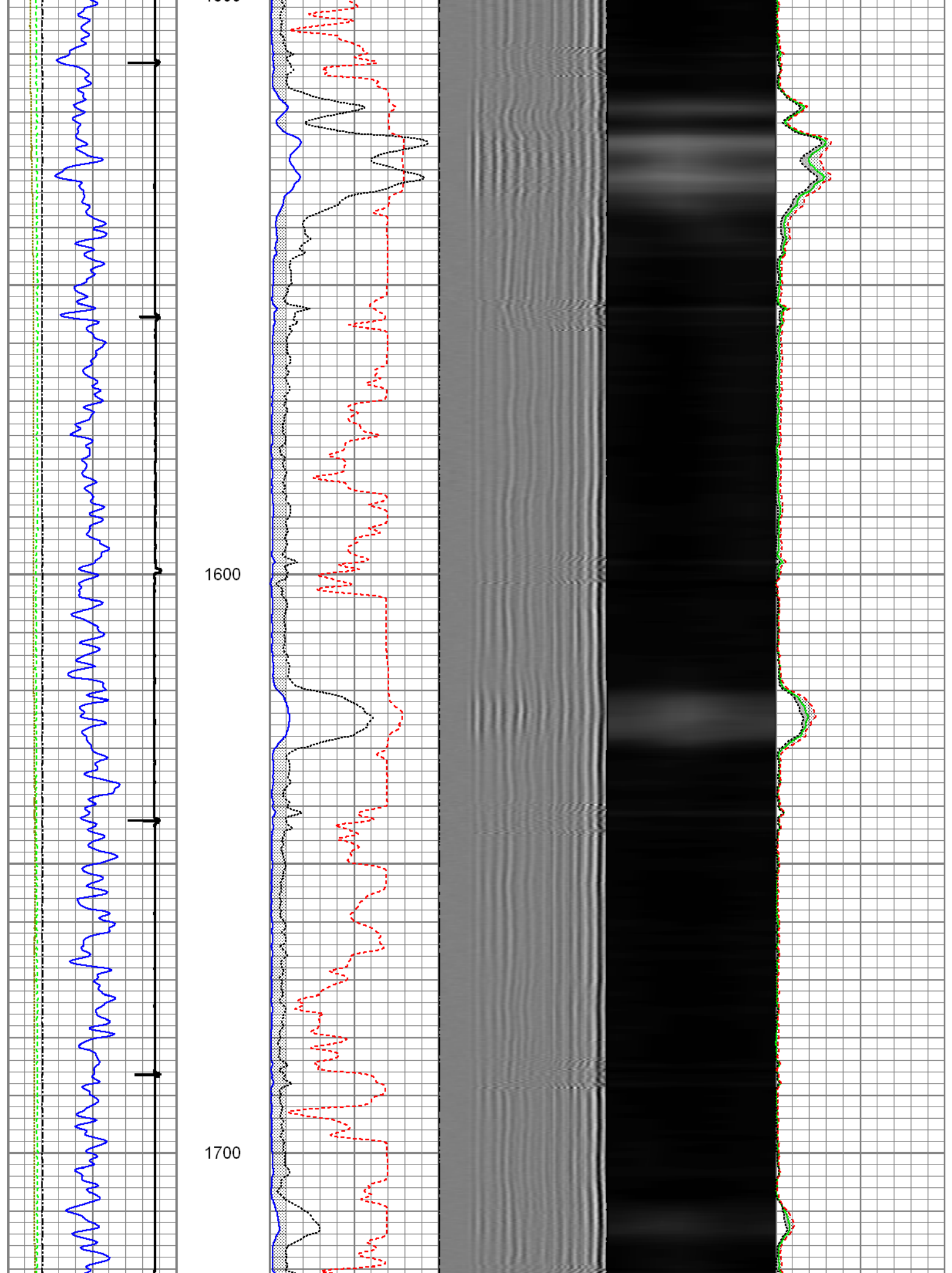


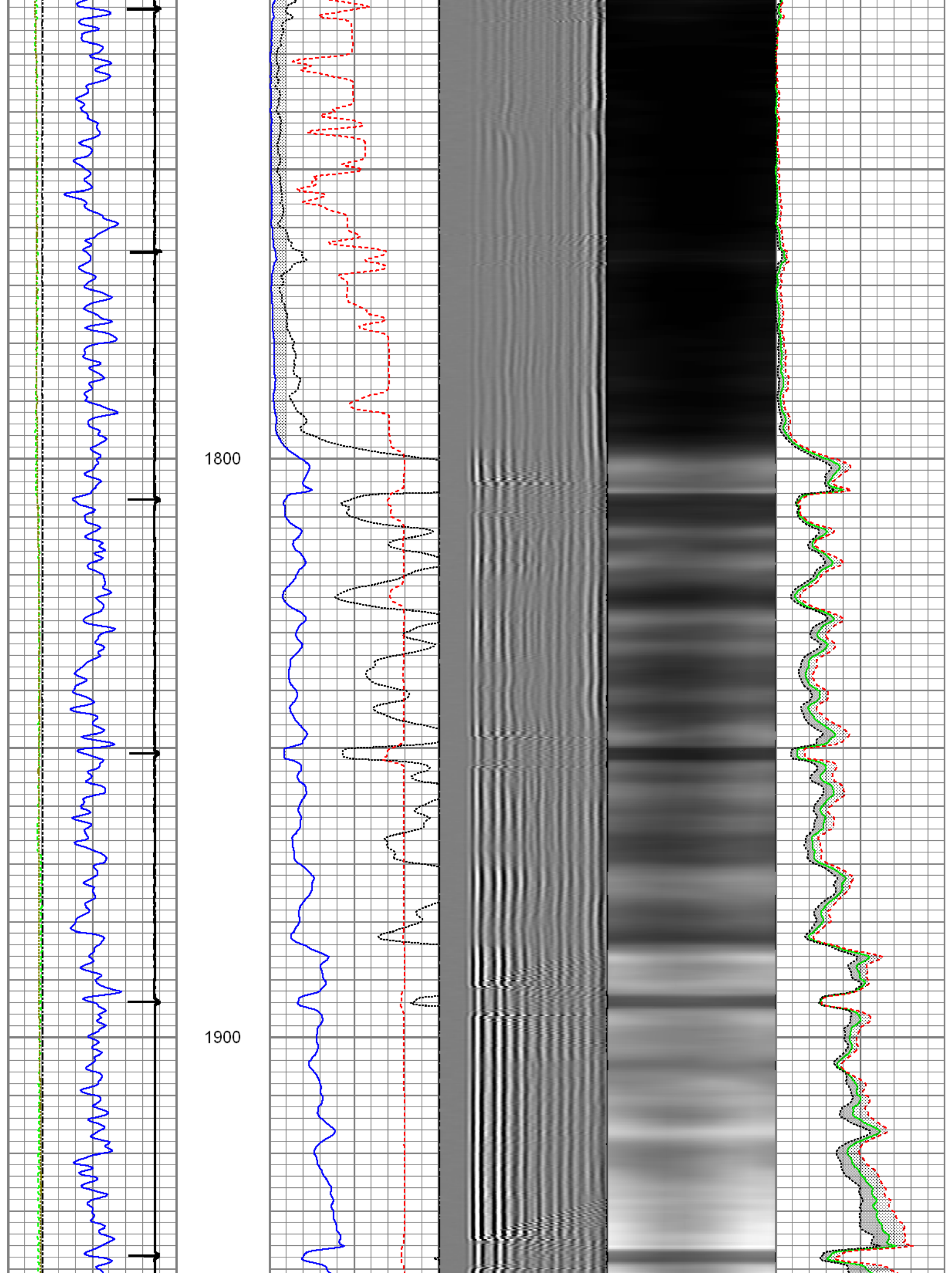


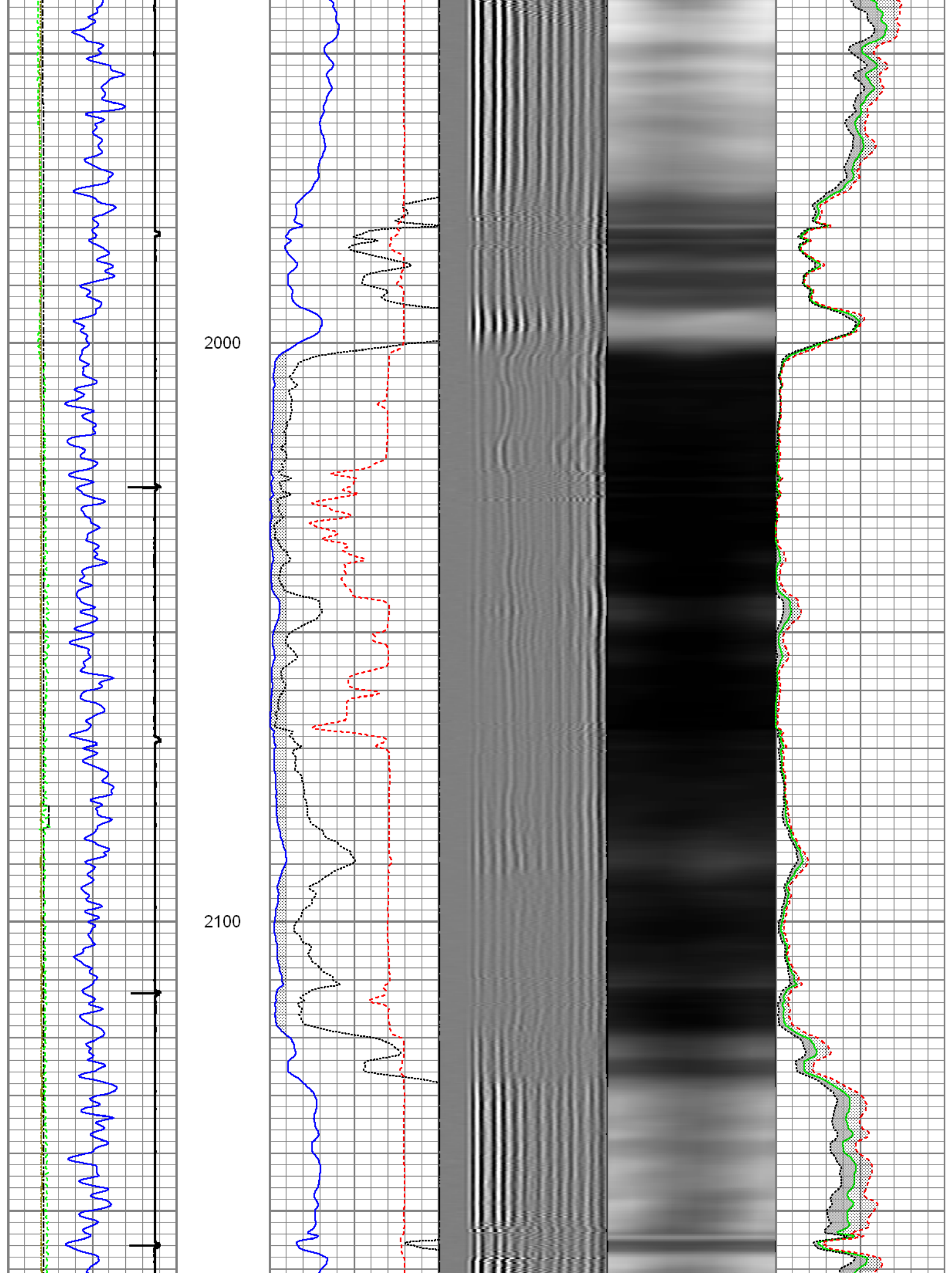






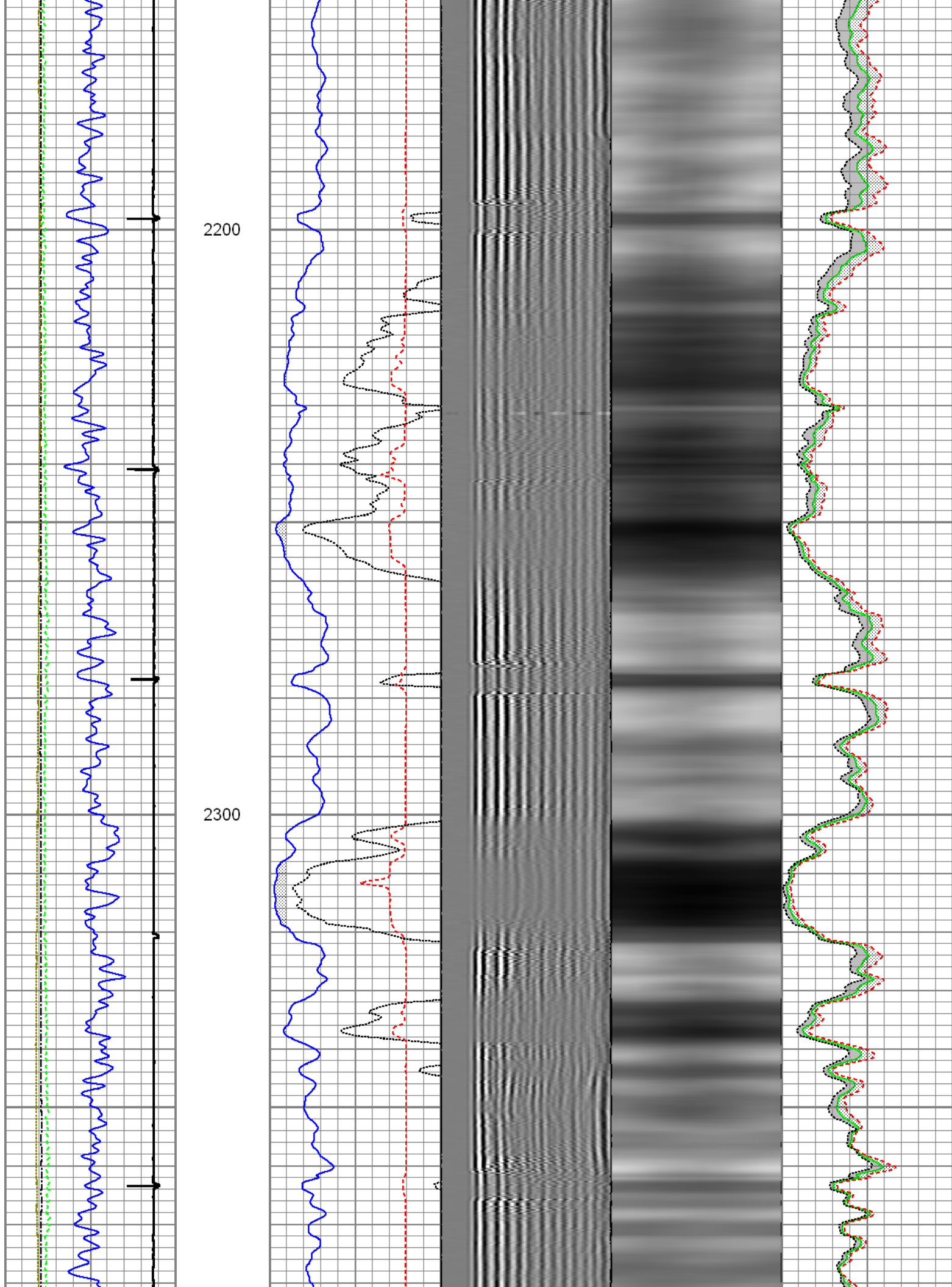




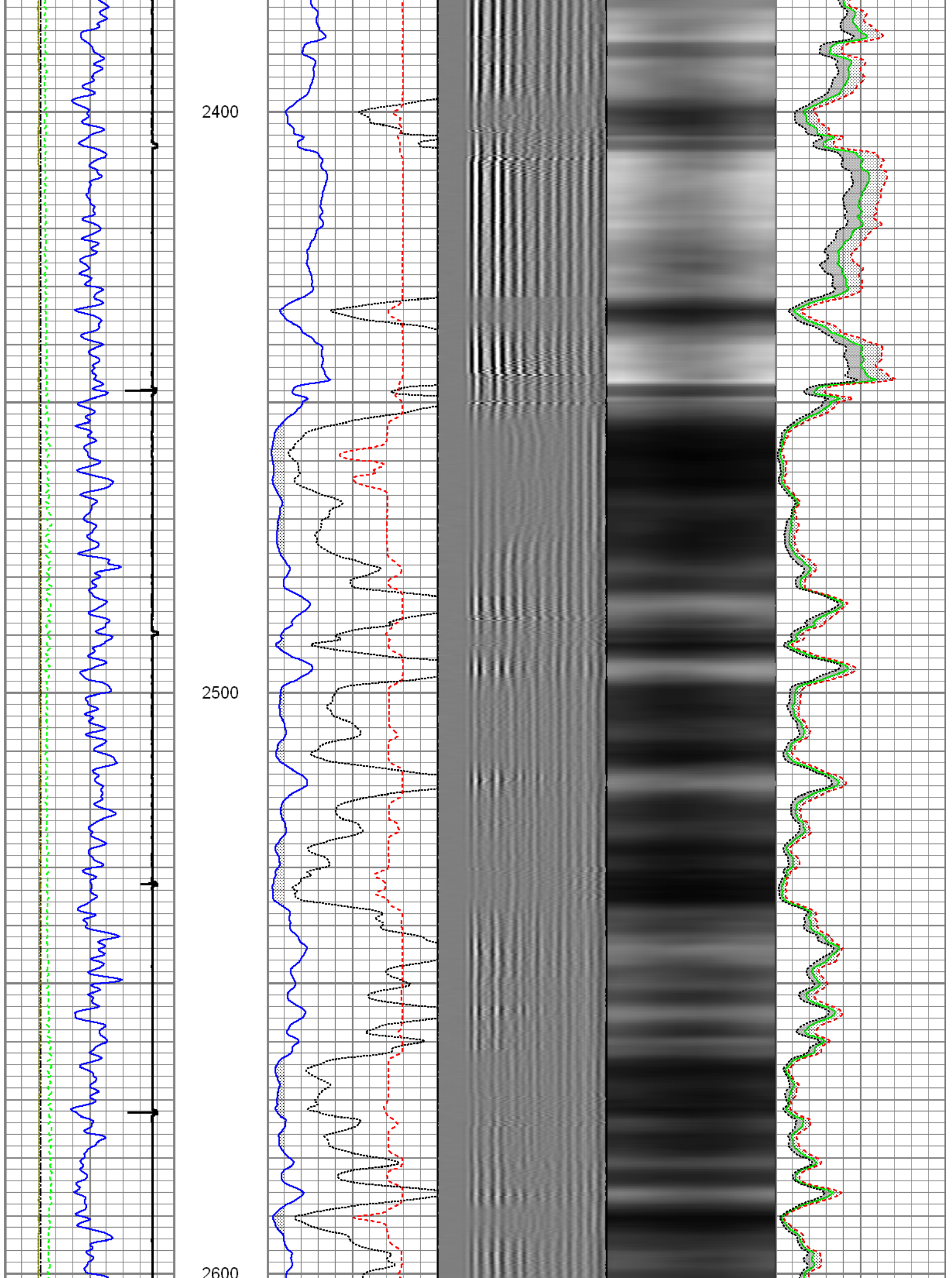


2200

2300



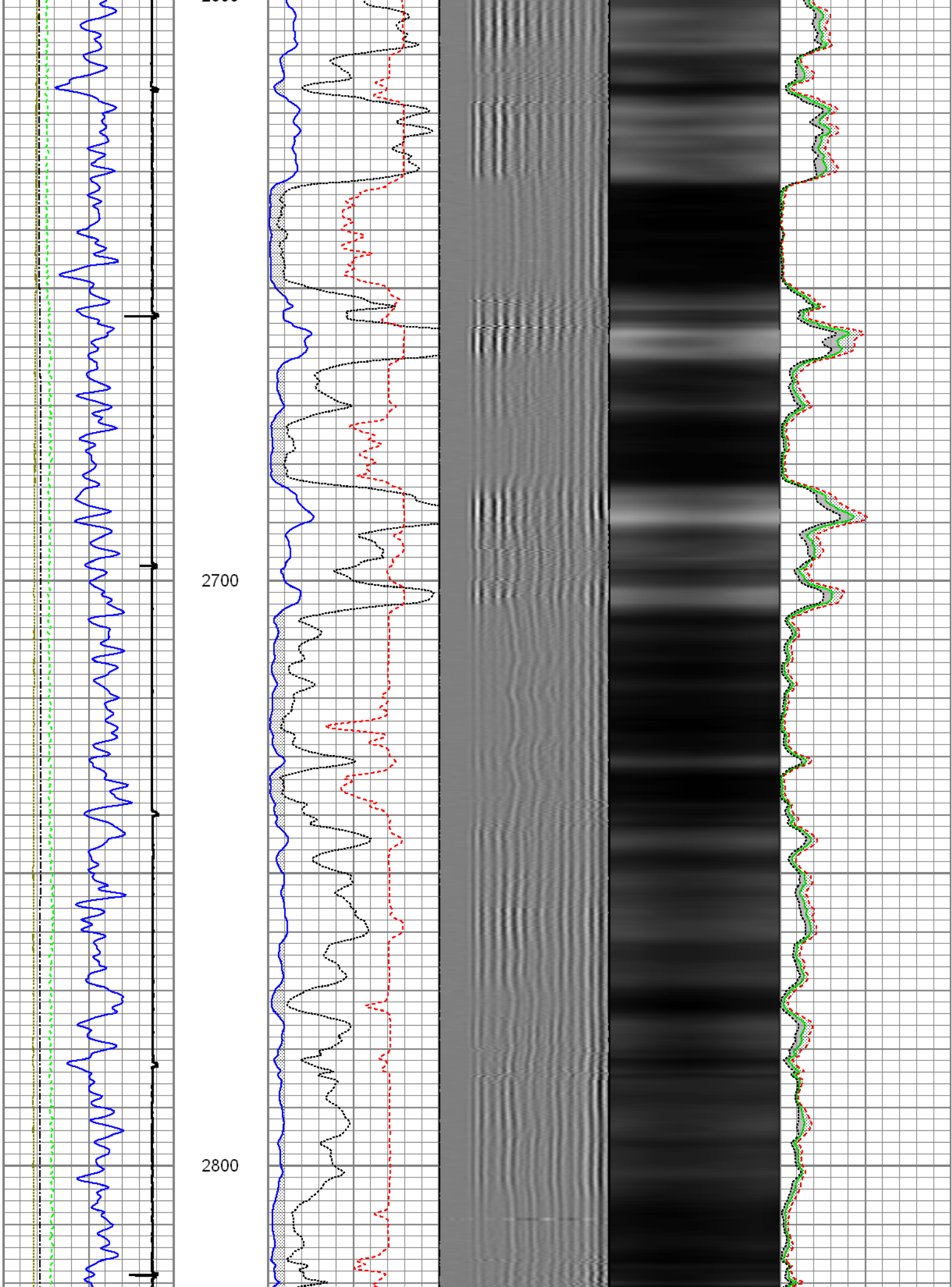


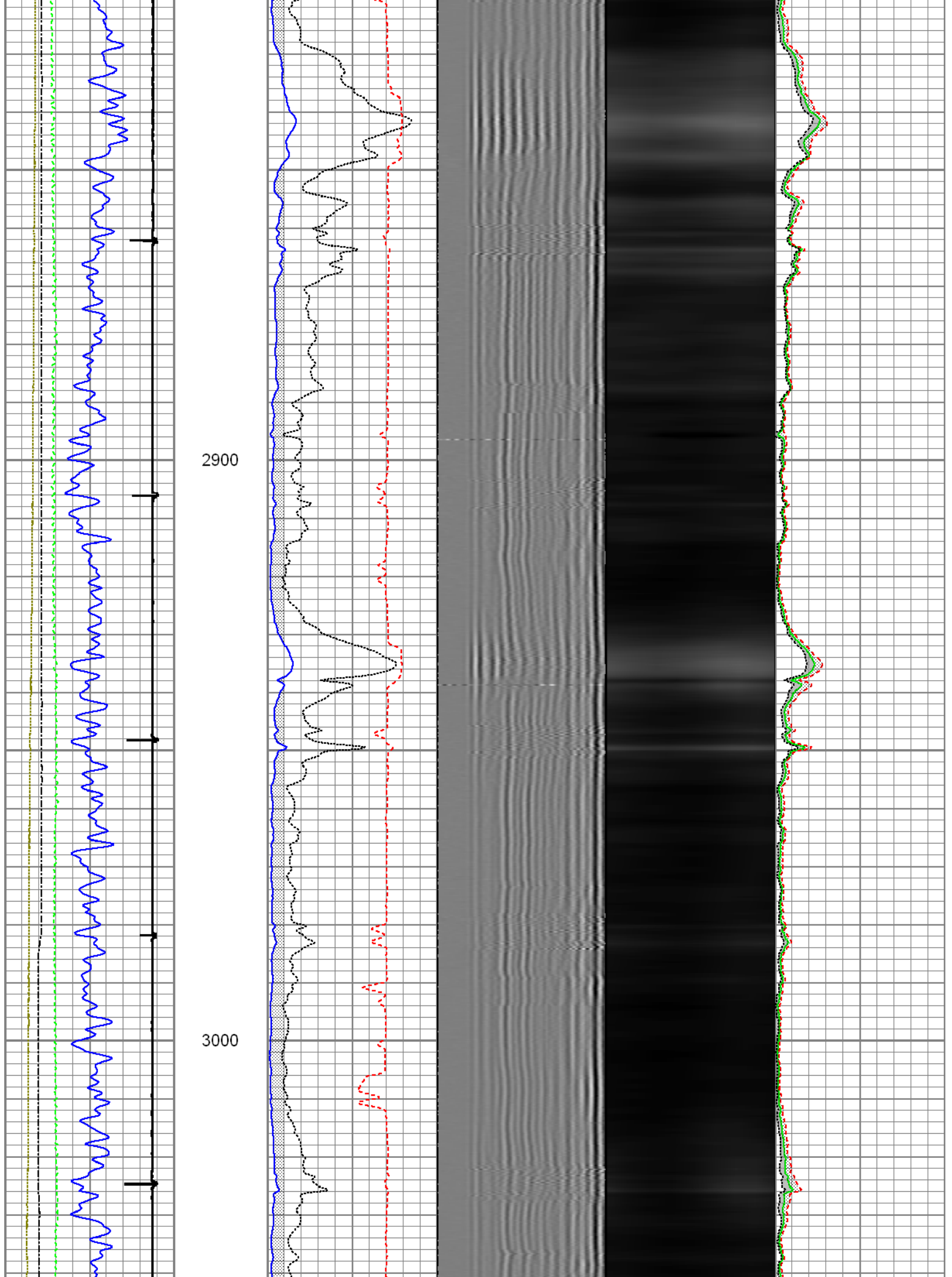


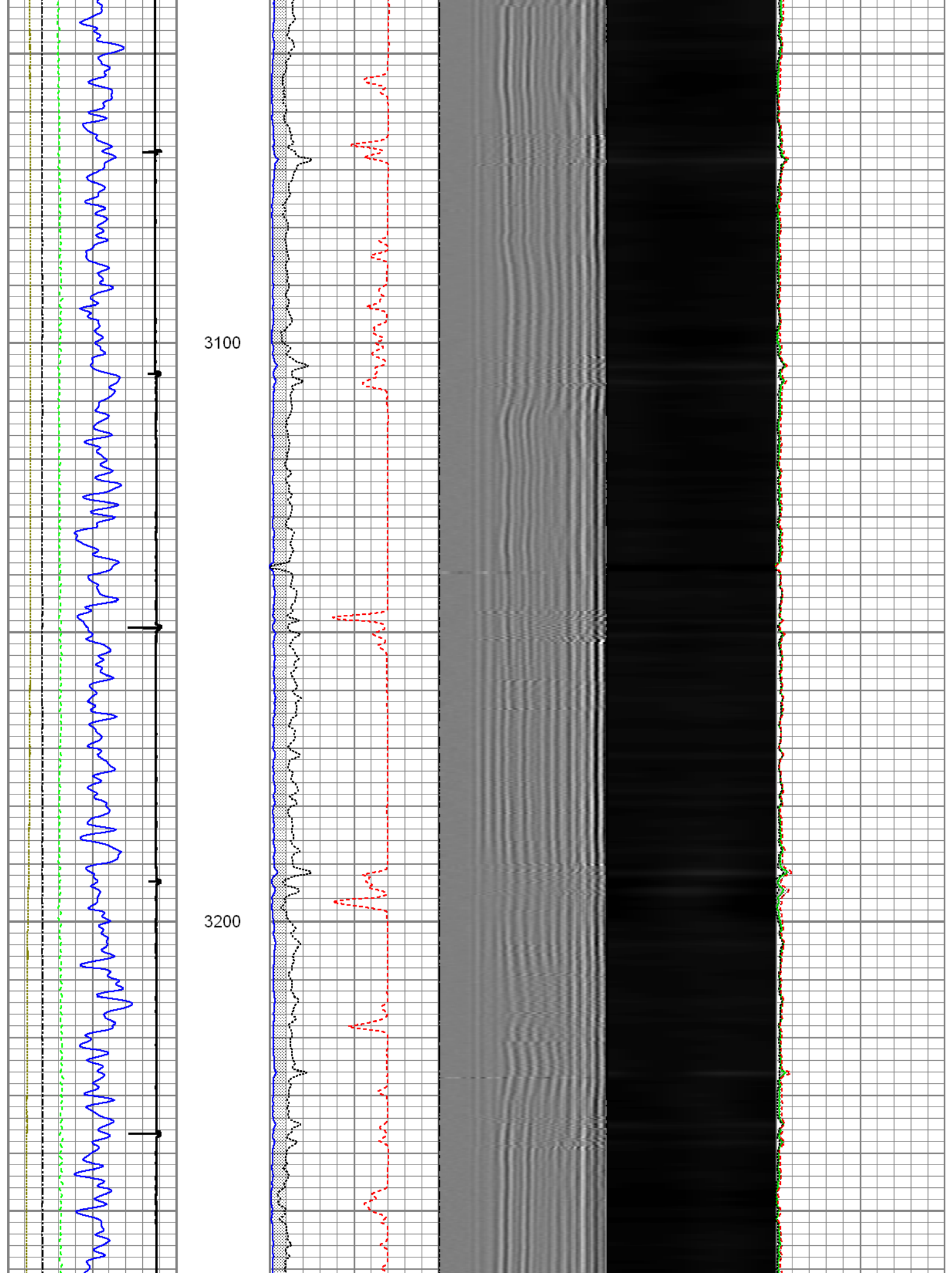
2600

2700

2800



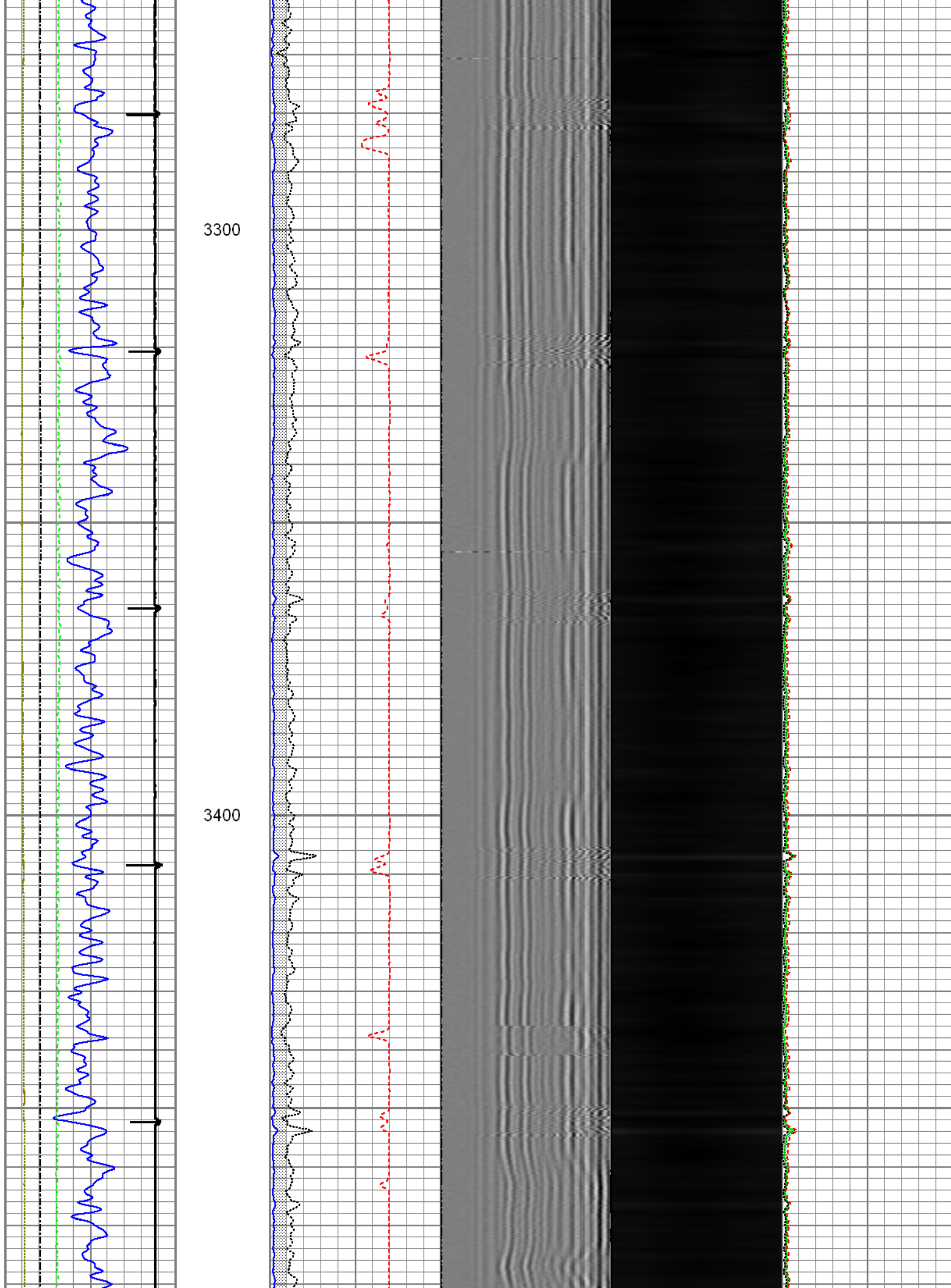






3300

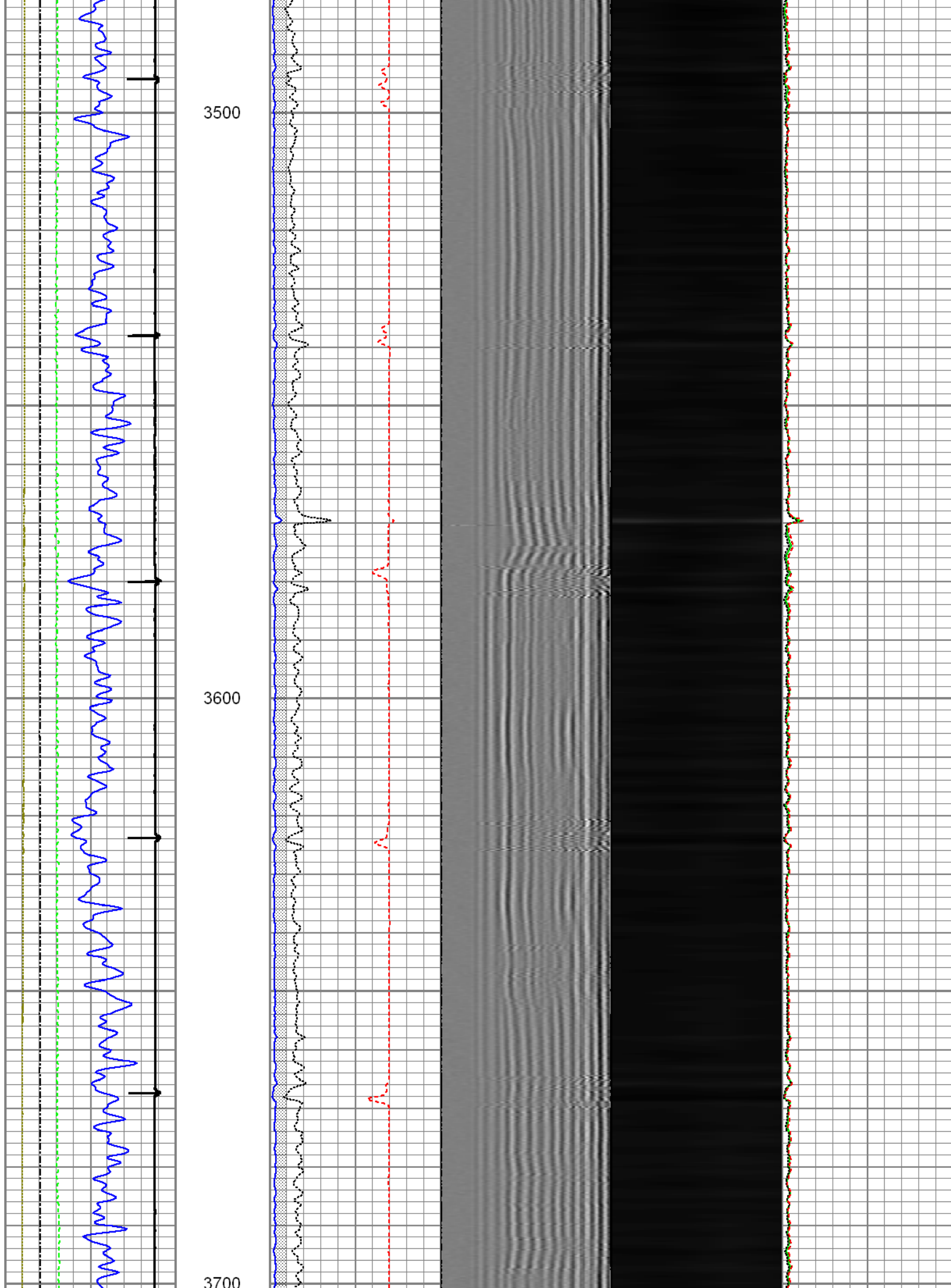
3400



3500

3600

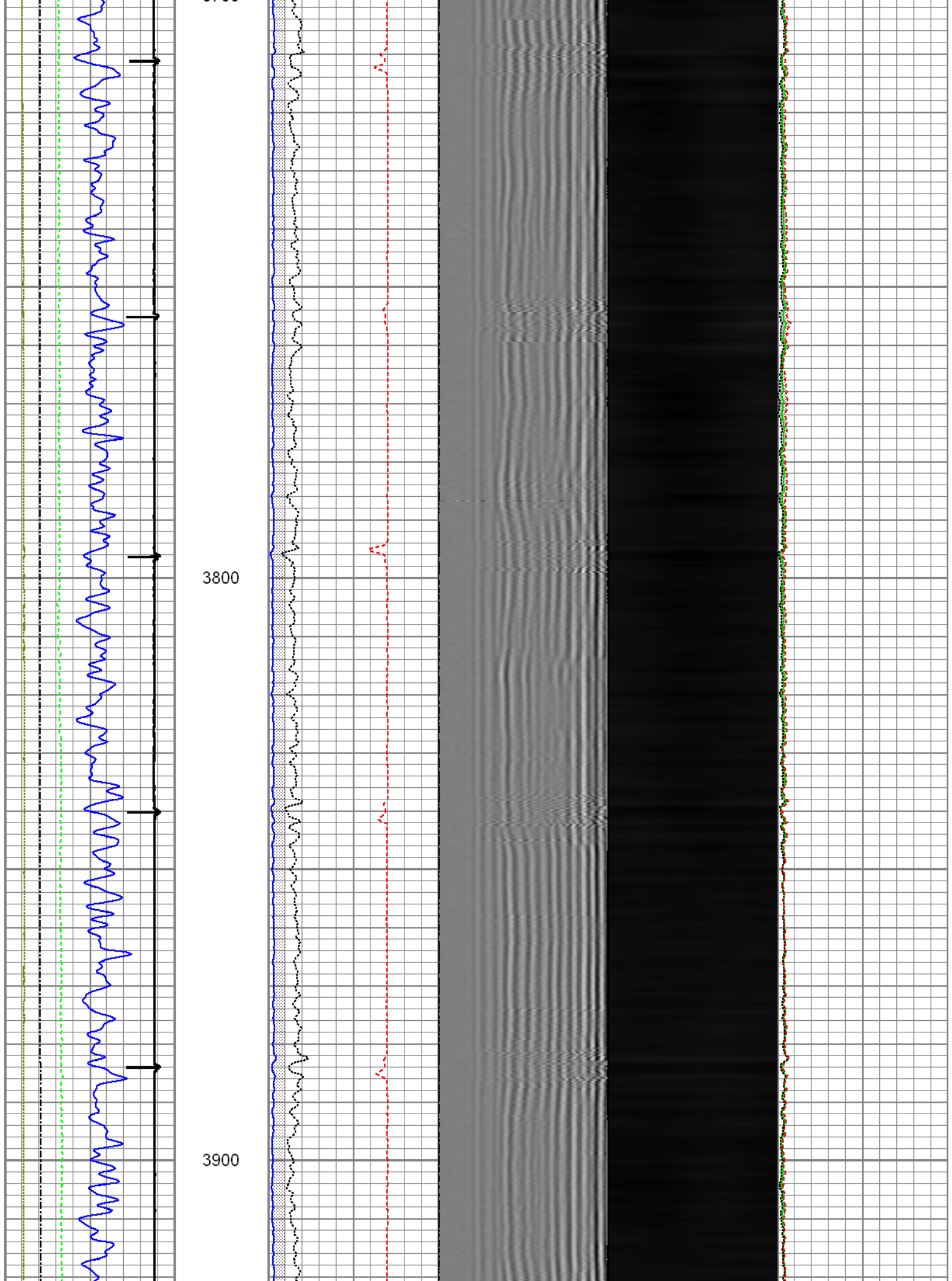
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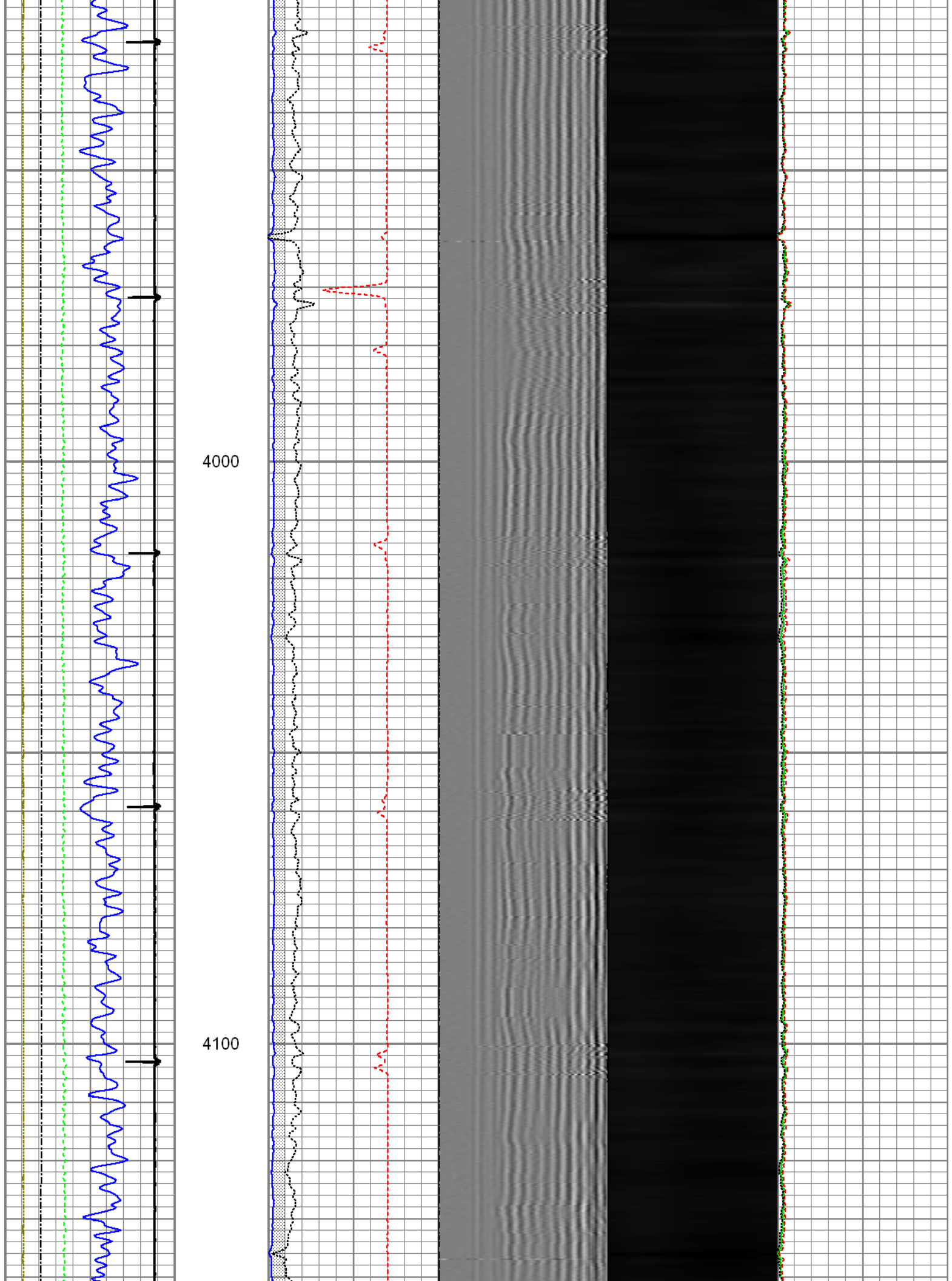


3700

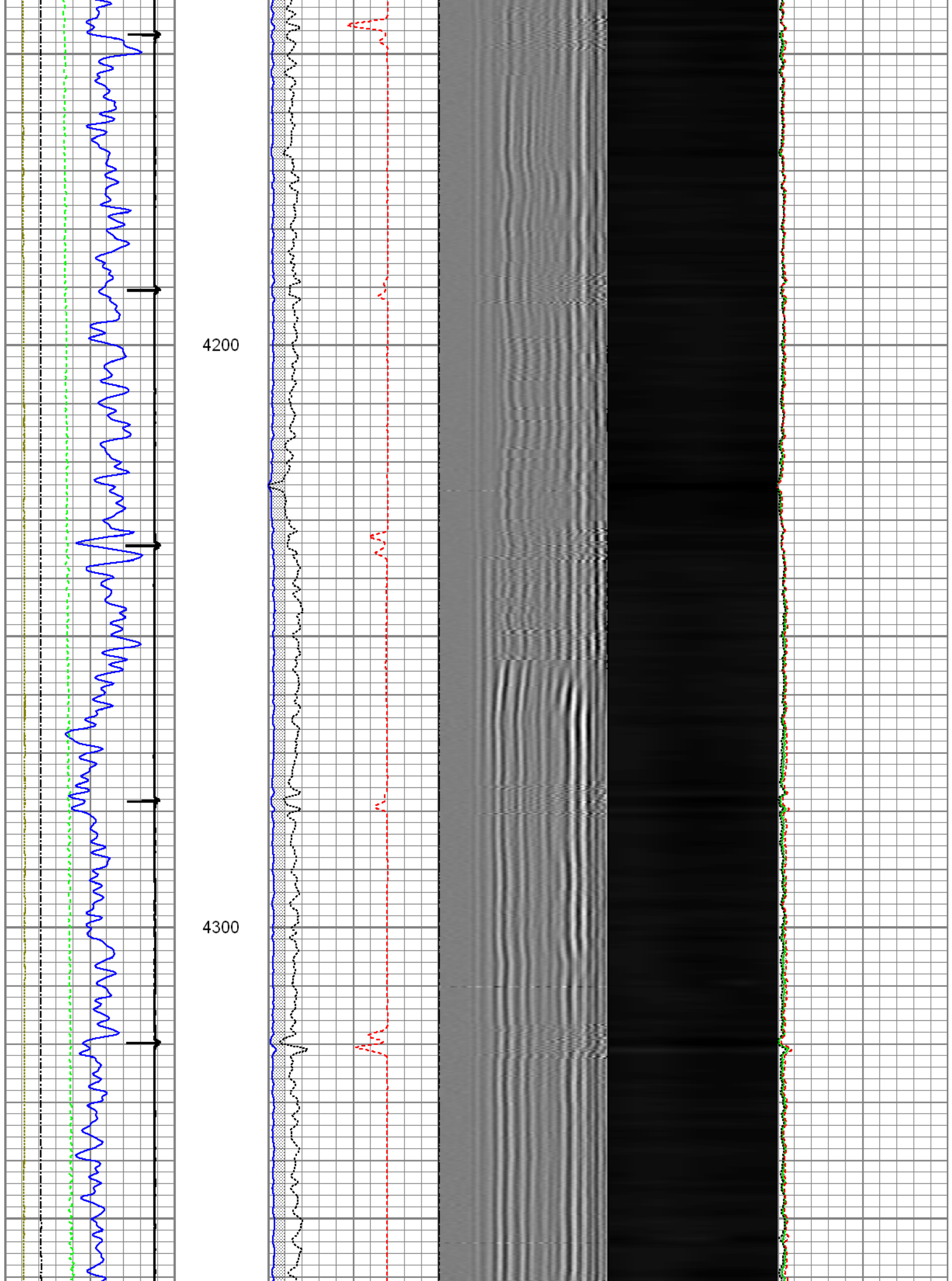
3800

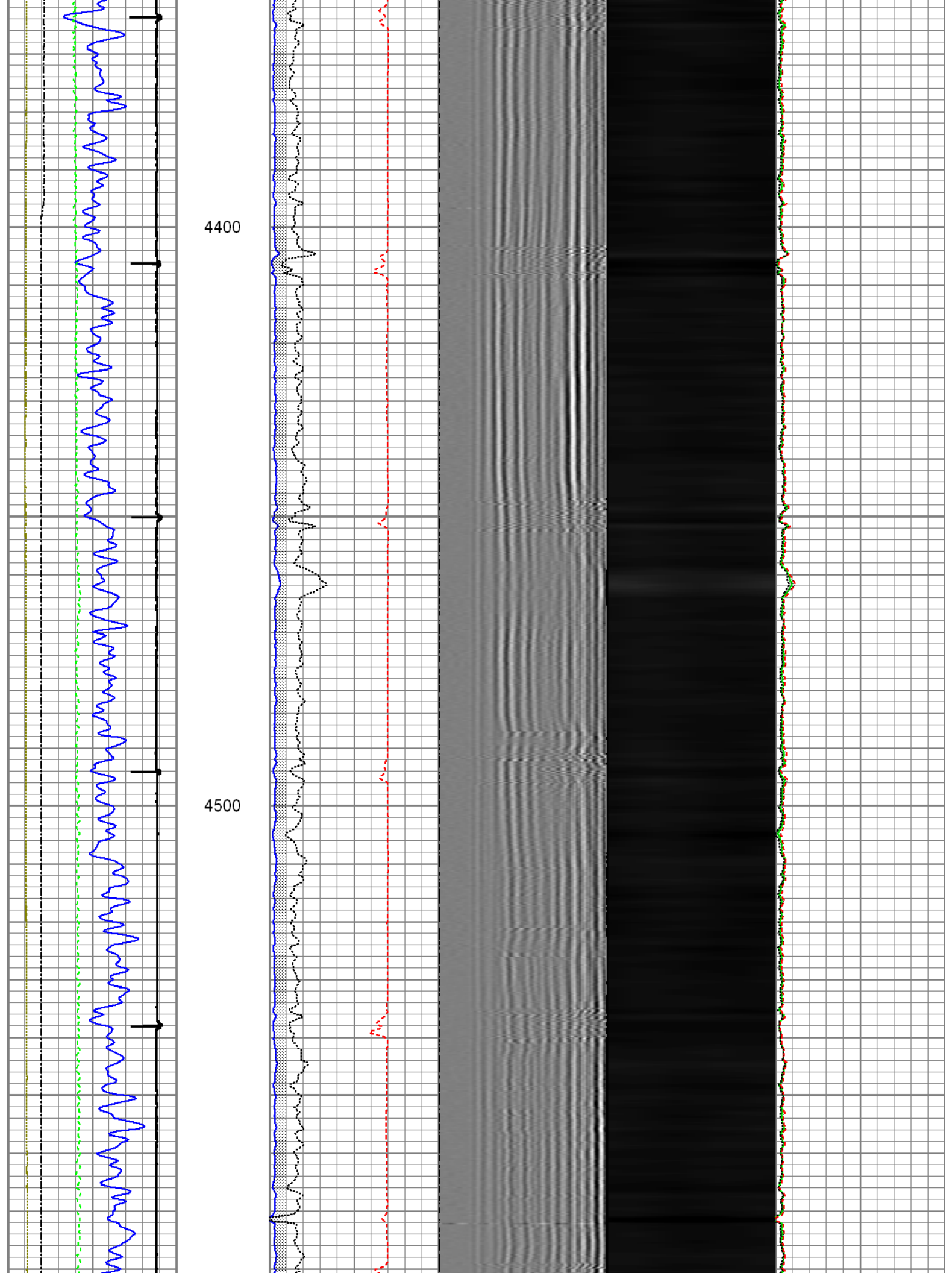
3900

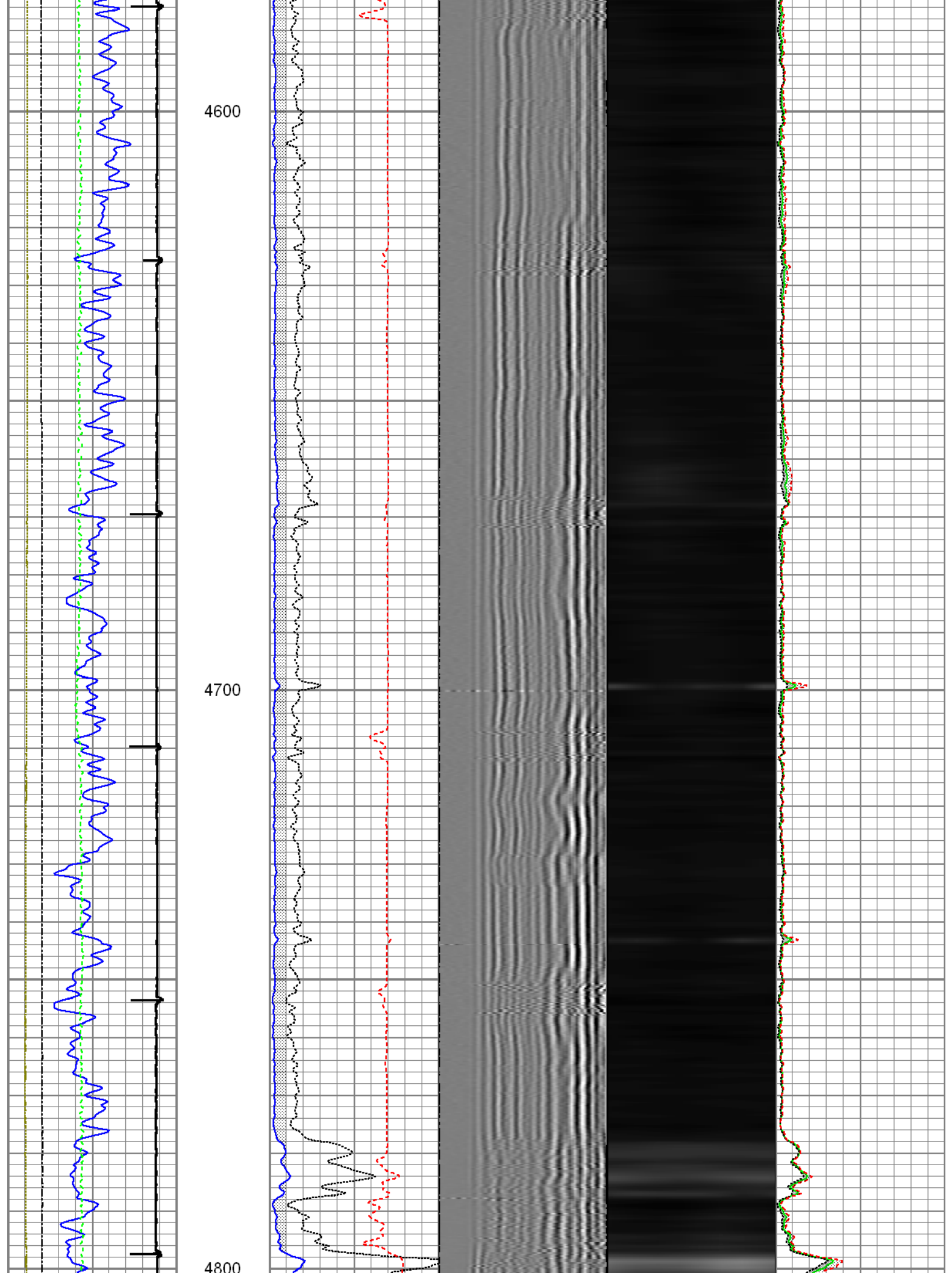


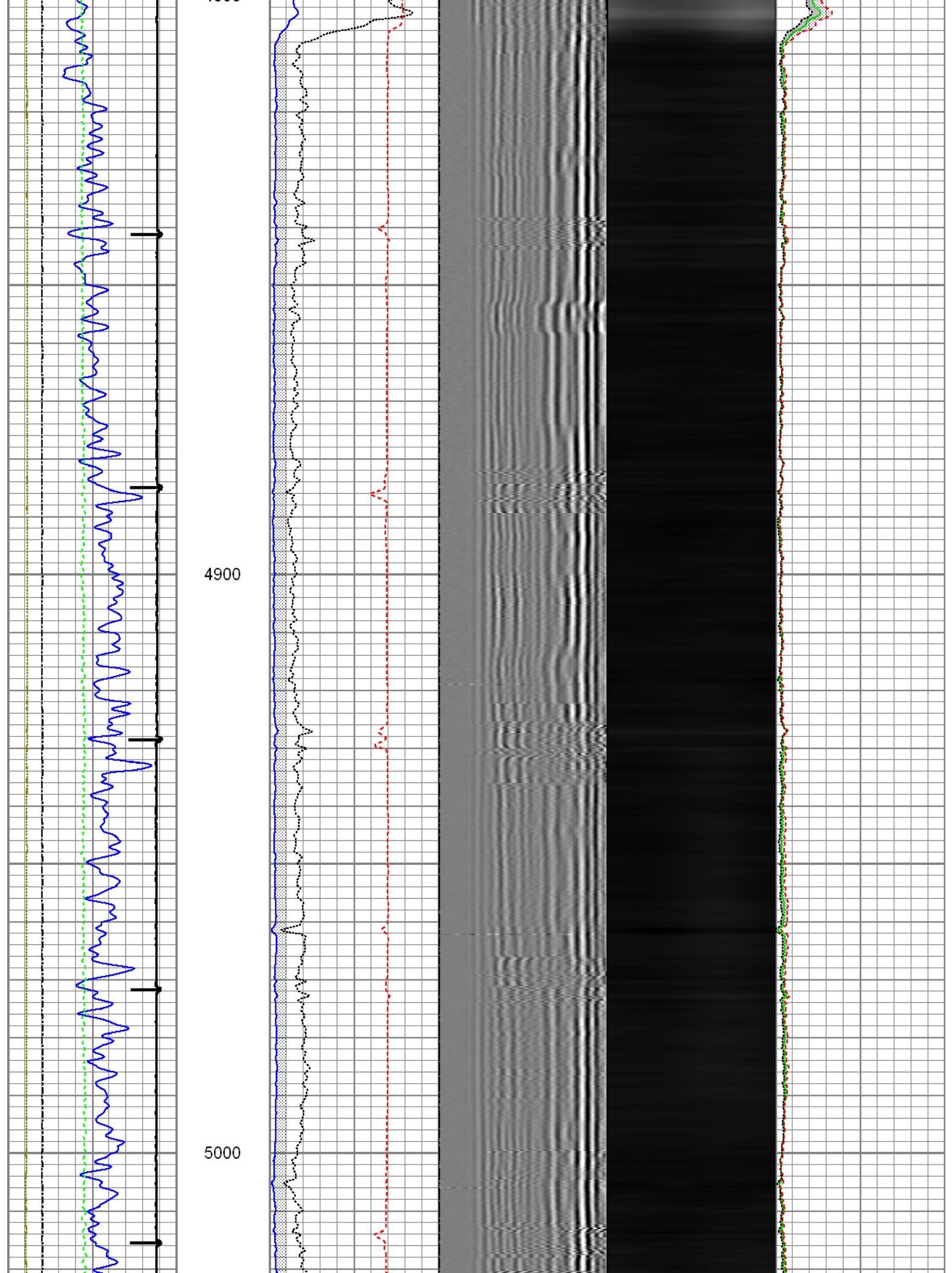




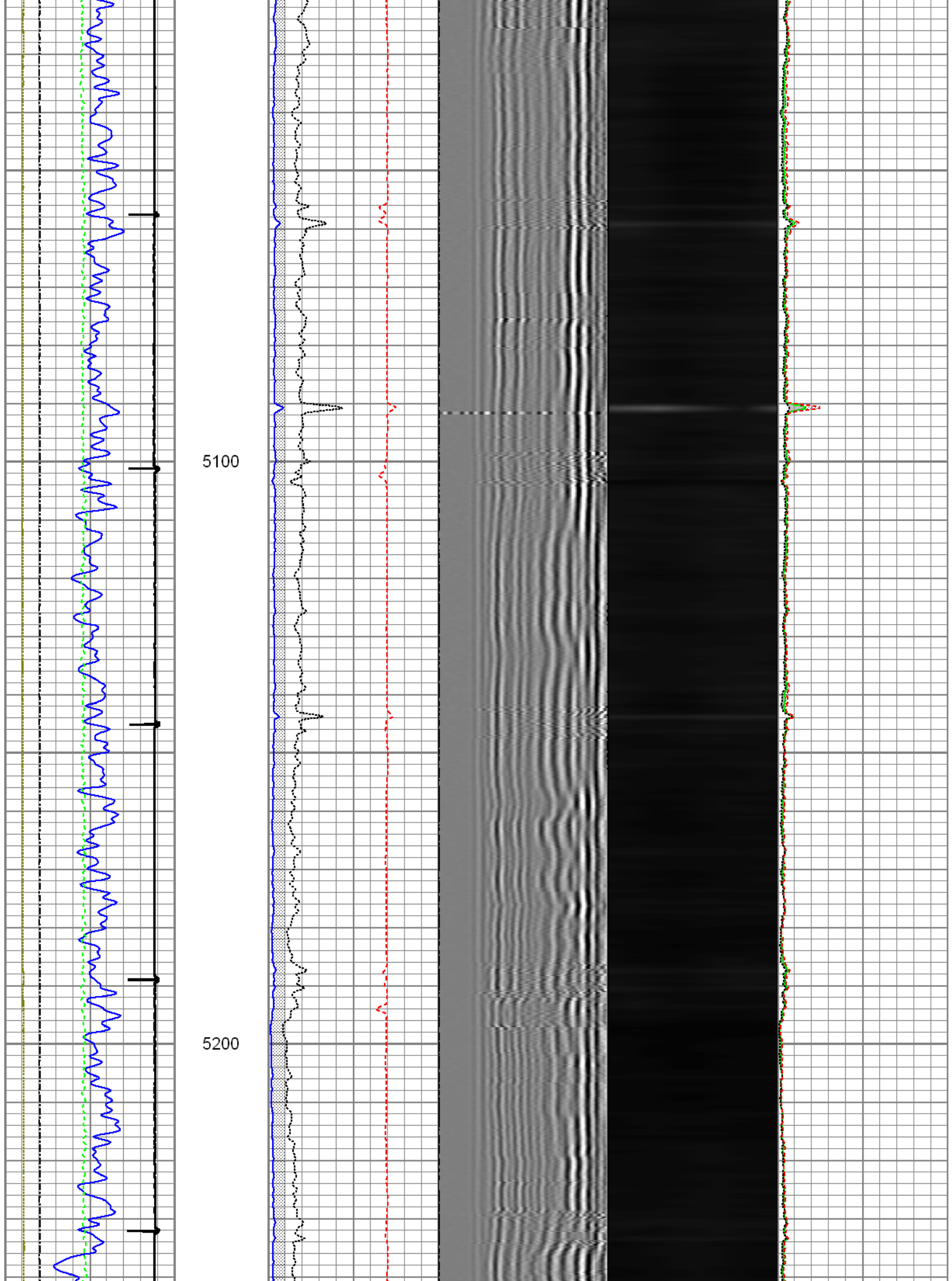


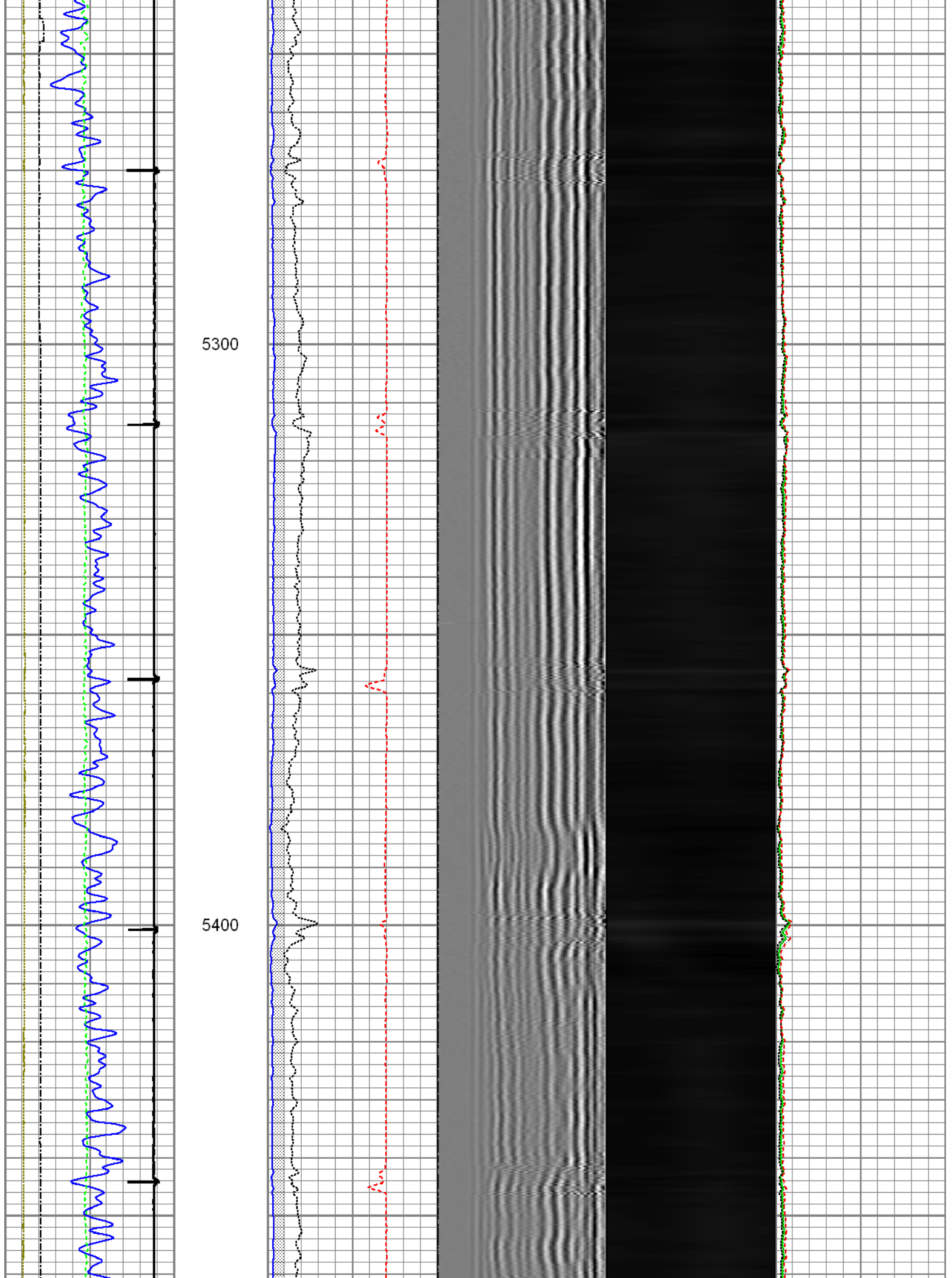






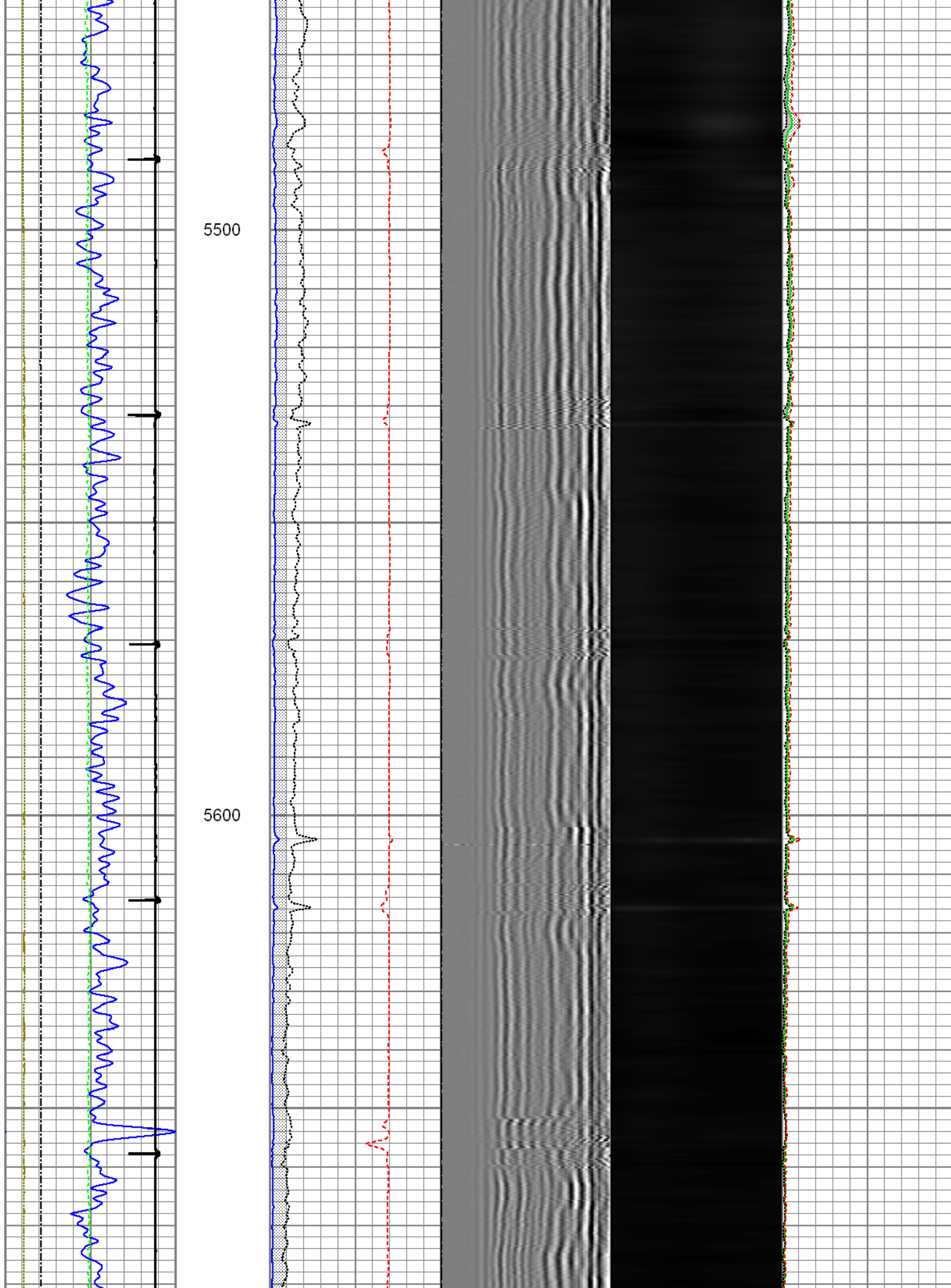


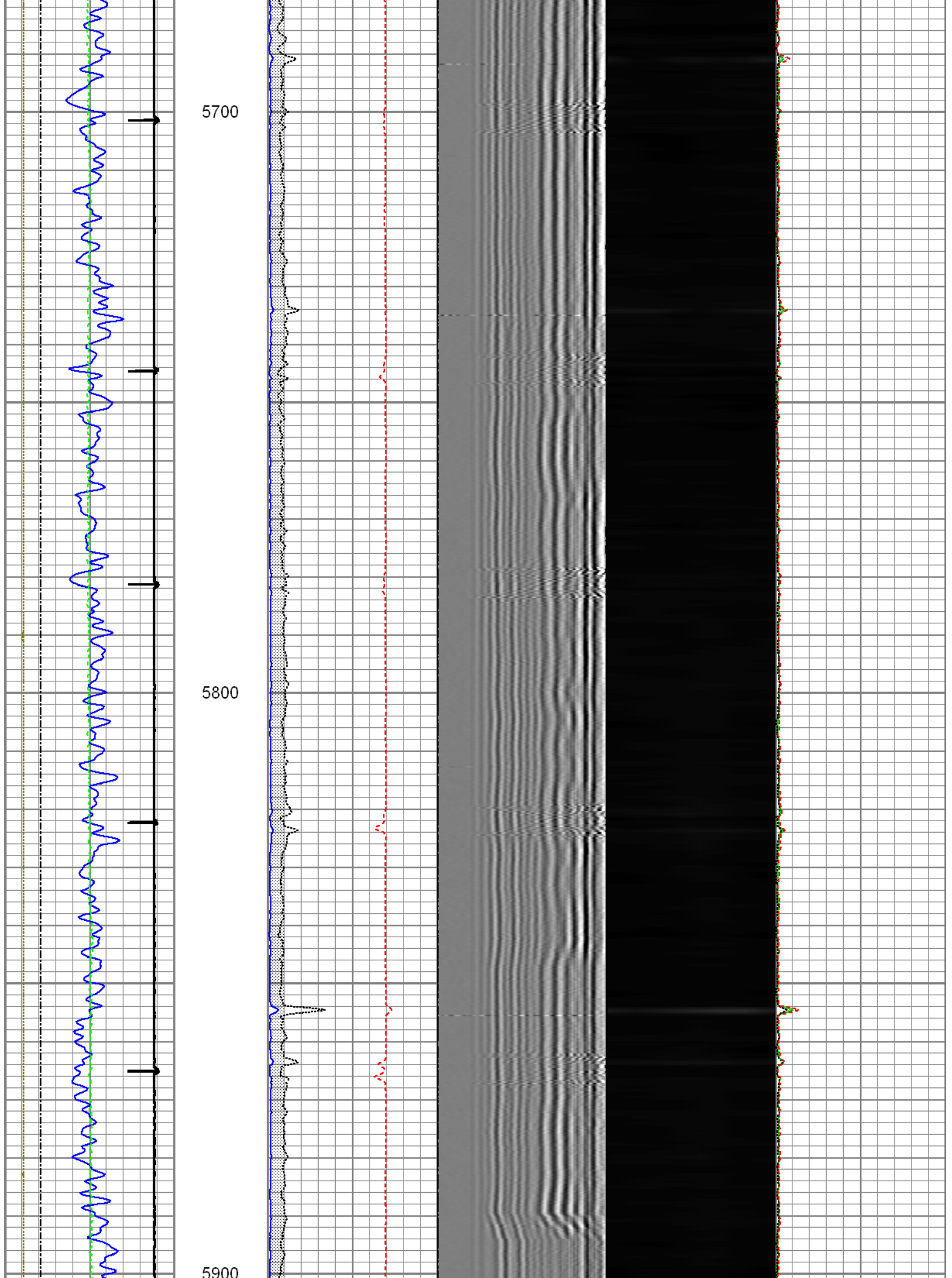




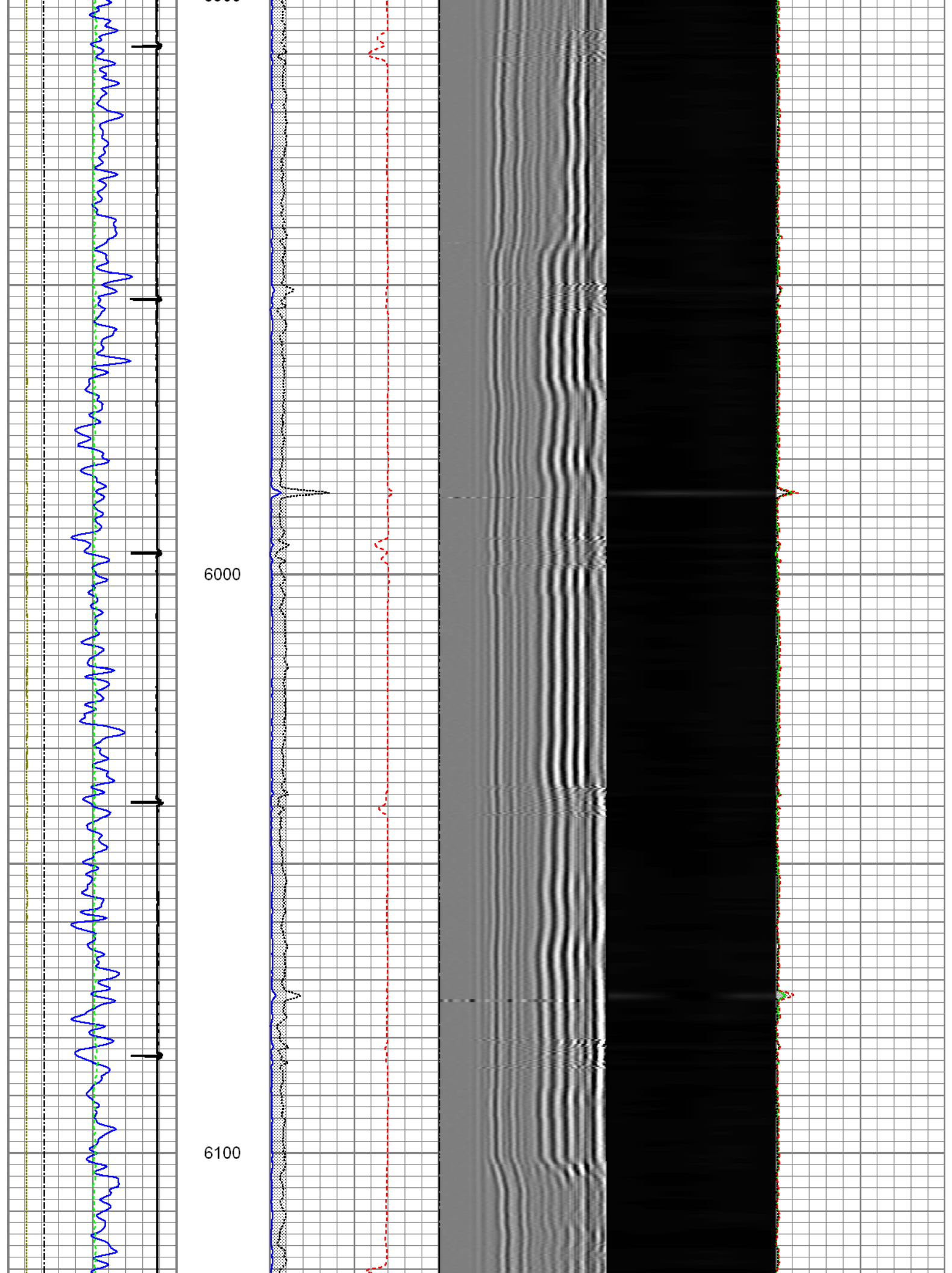
5500

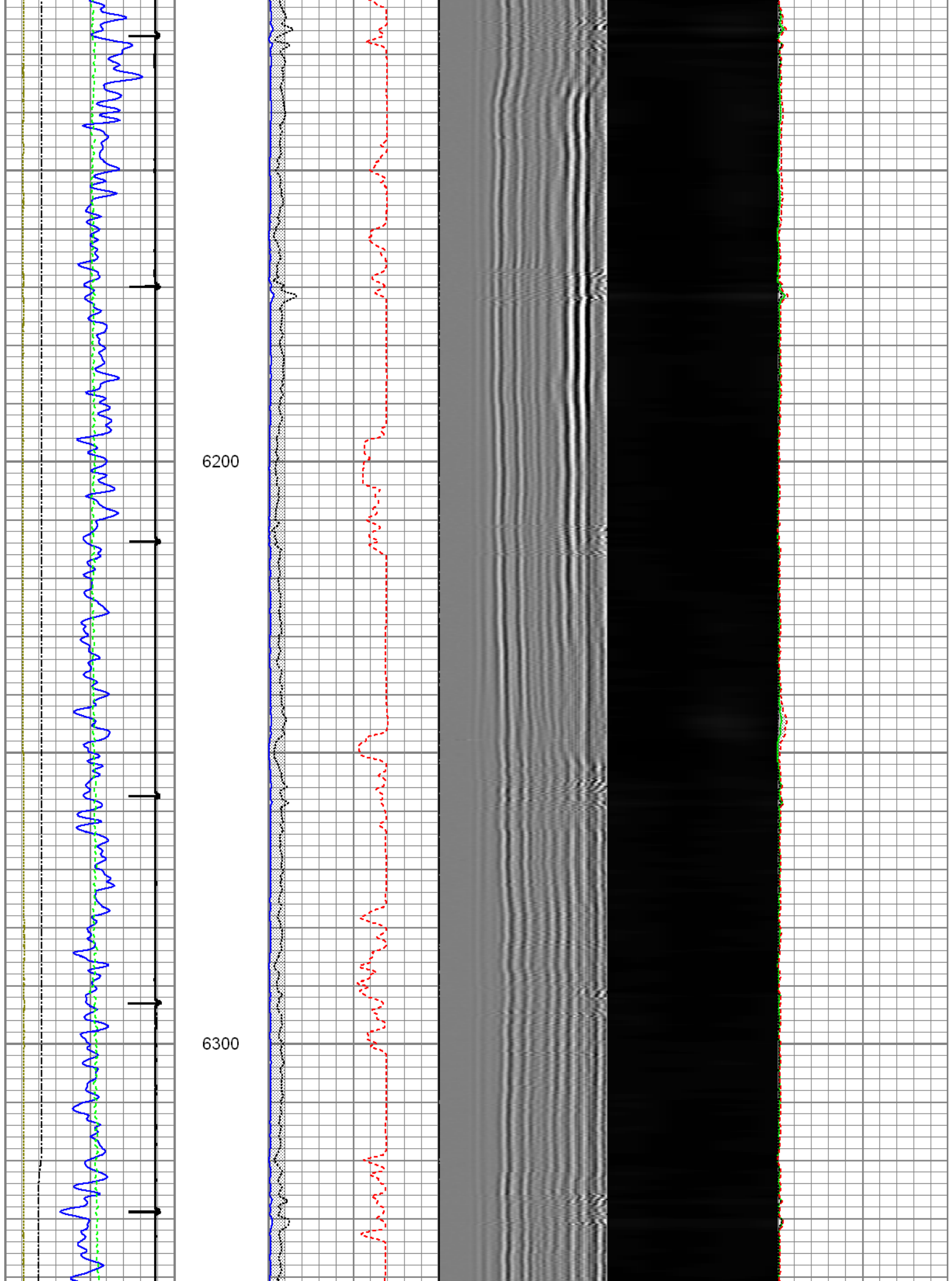
5600

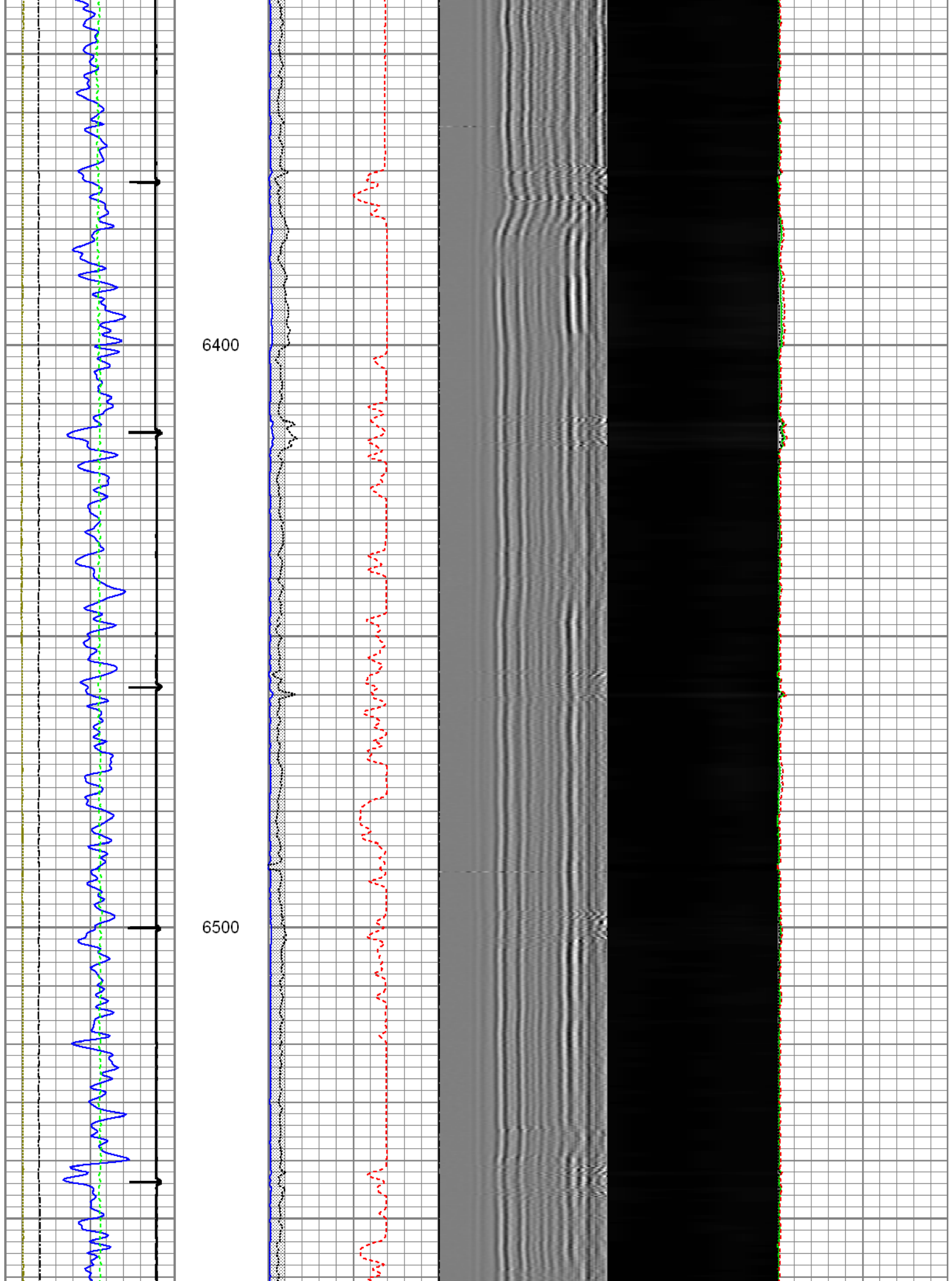






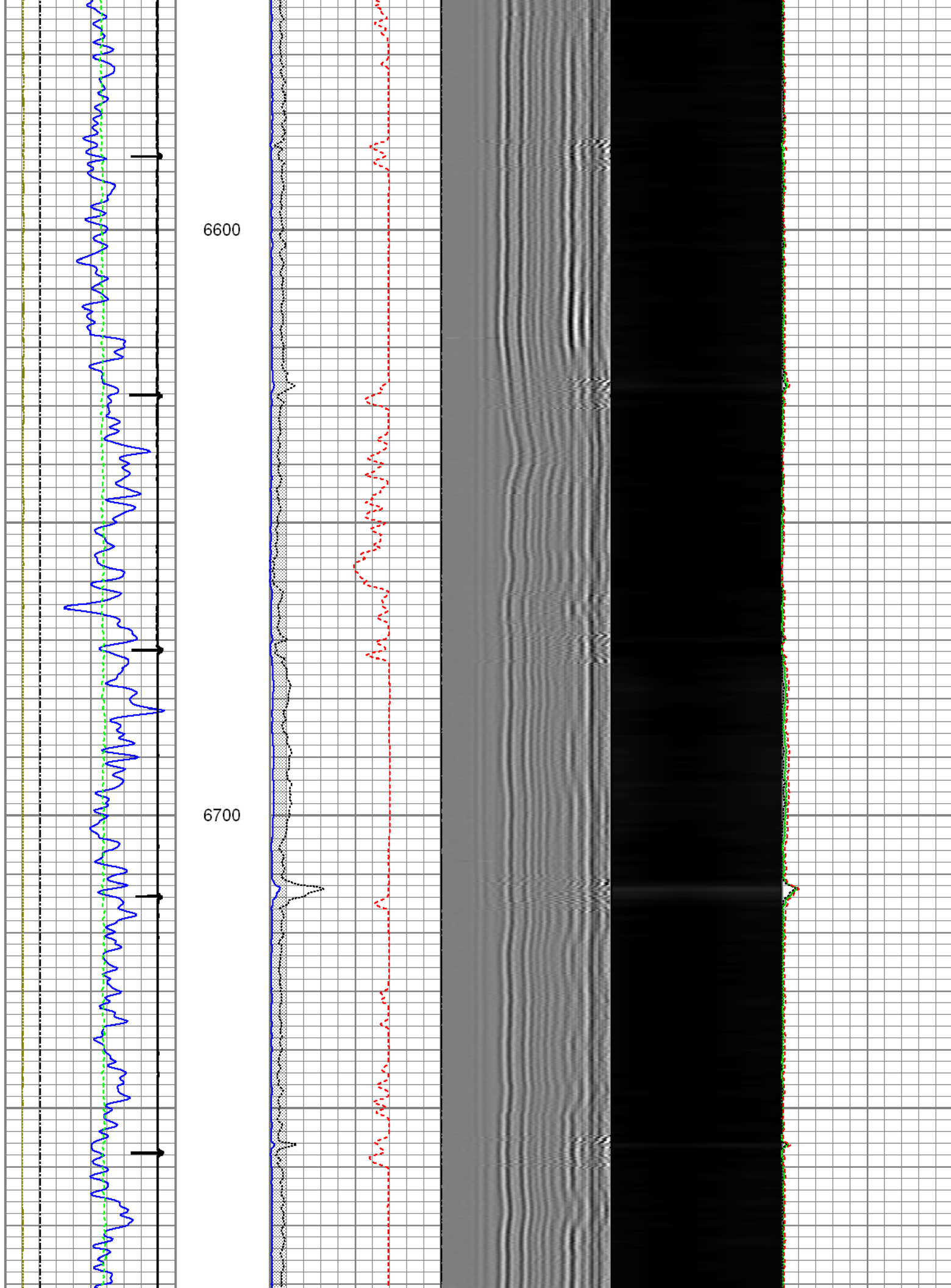




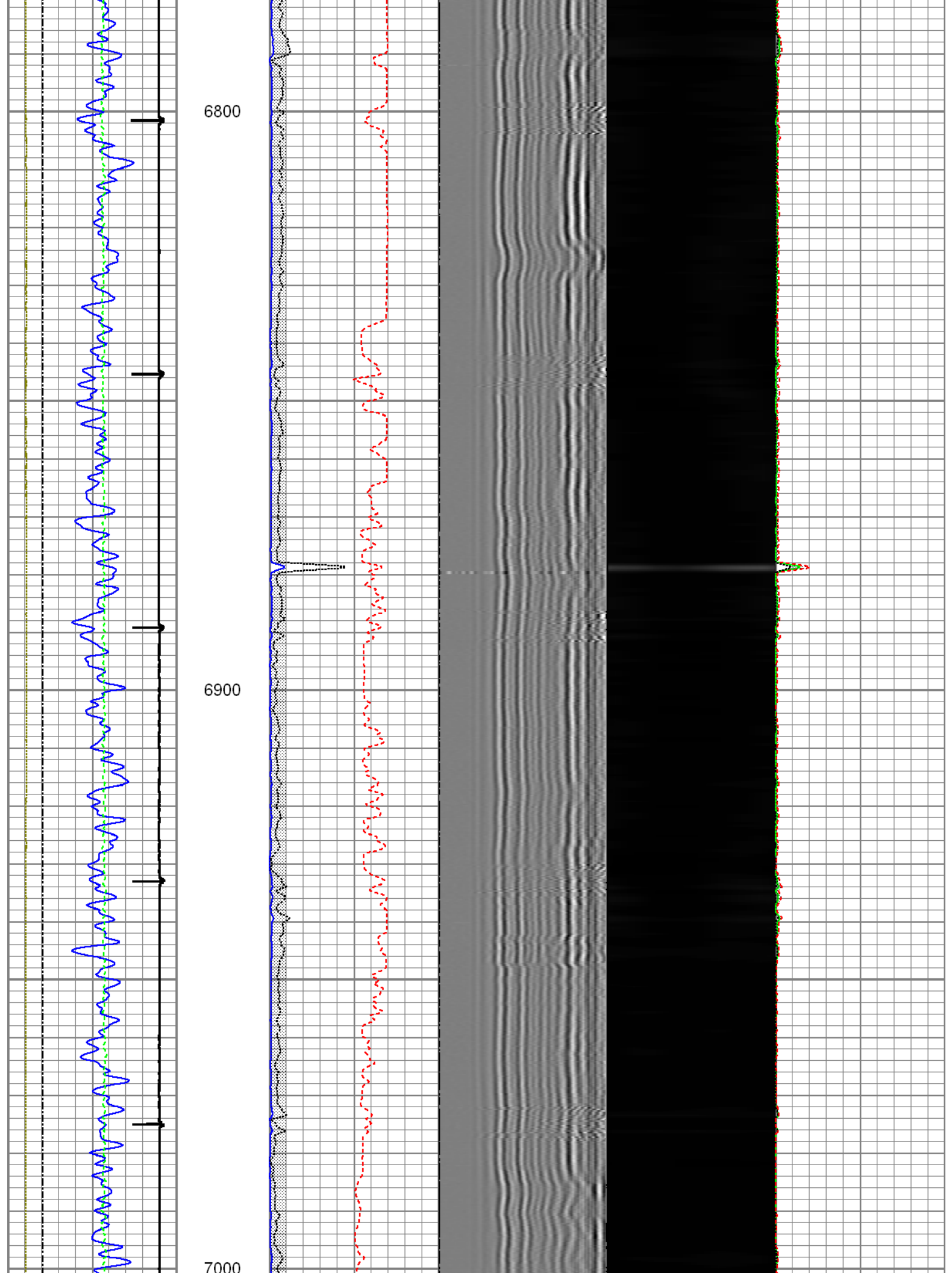


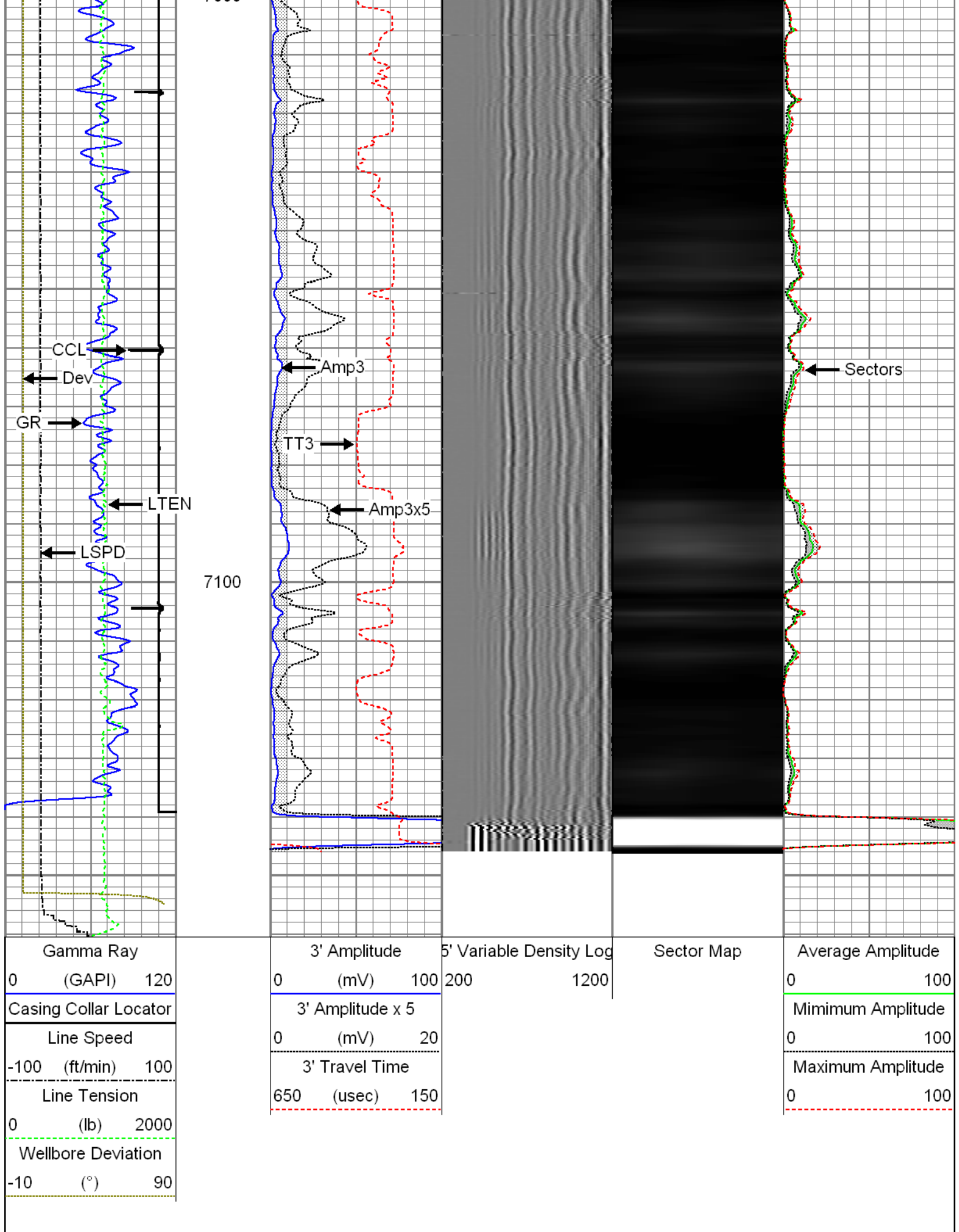
6600

6700





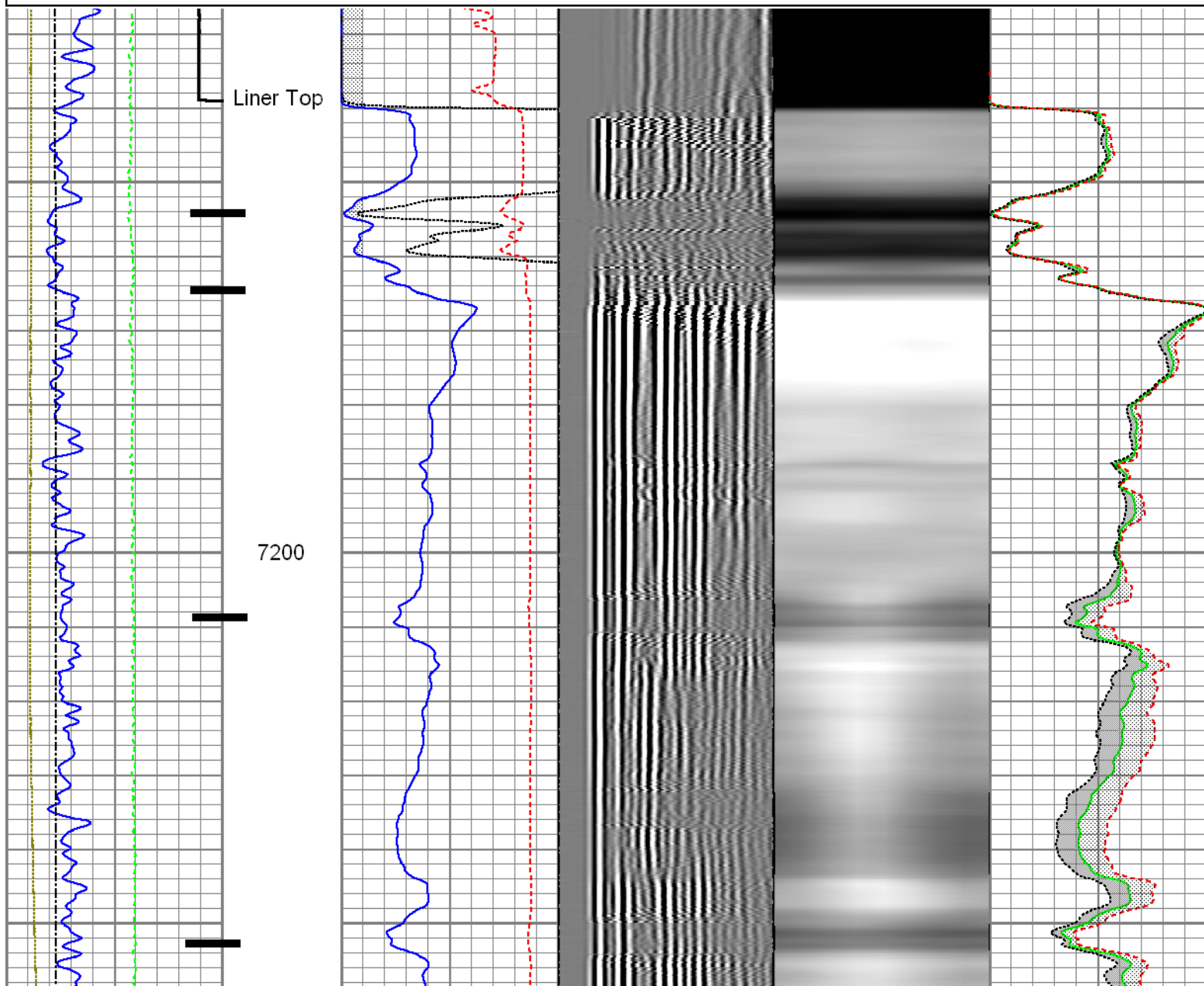


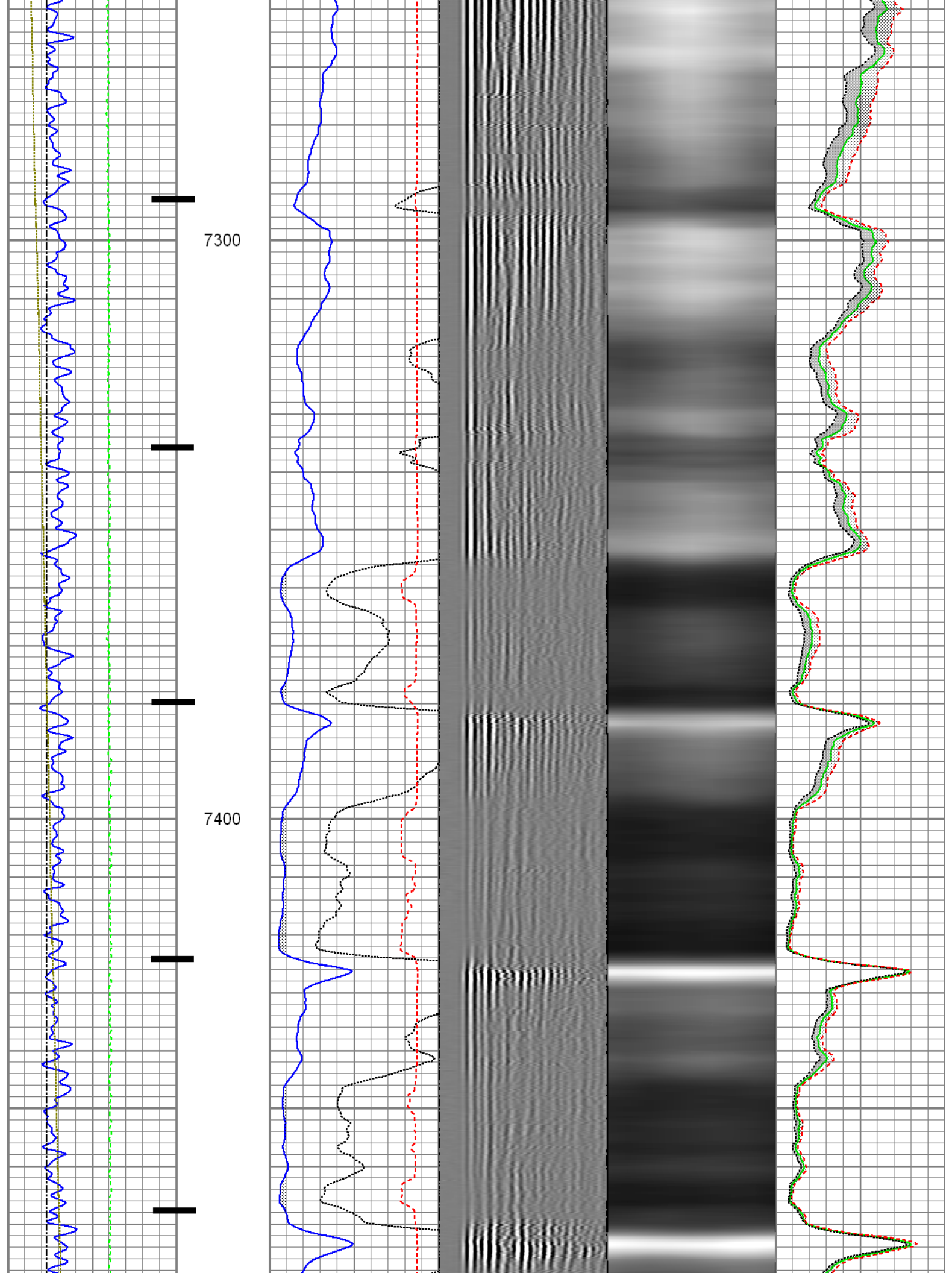


Recorded with 2800 Psi surface induced pressure

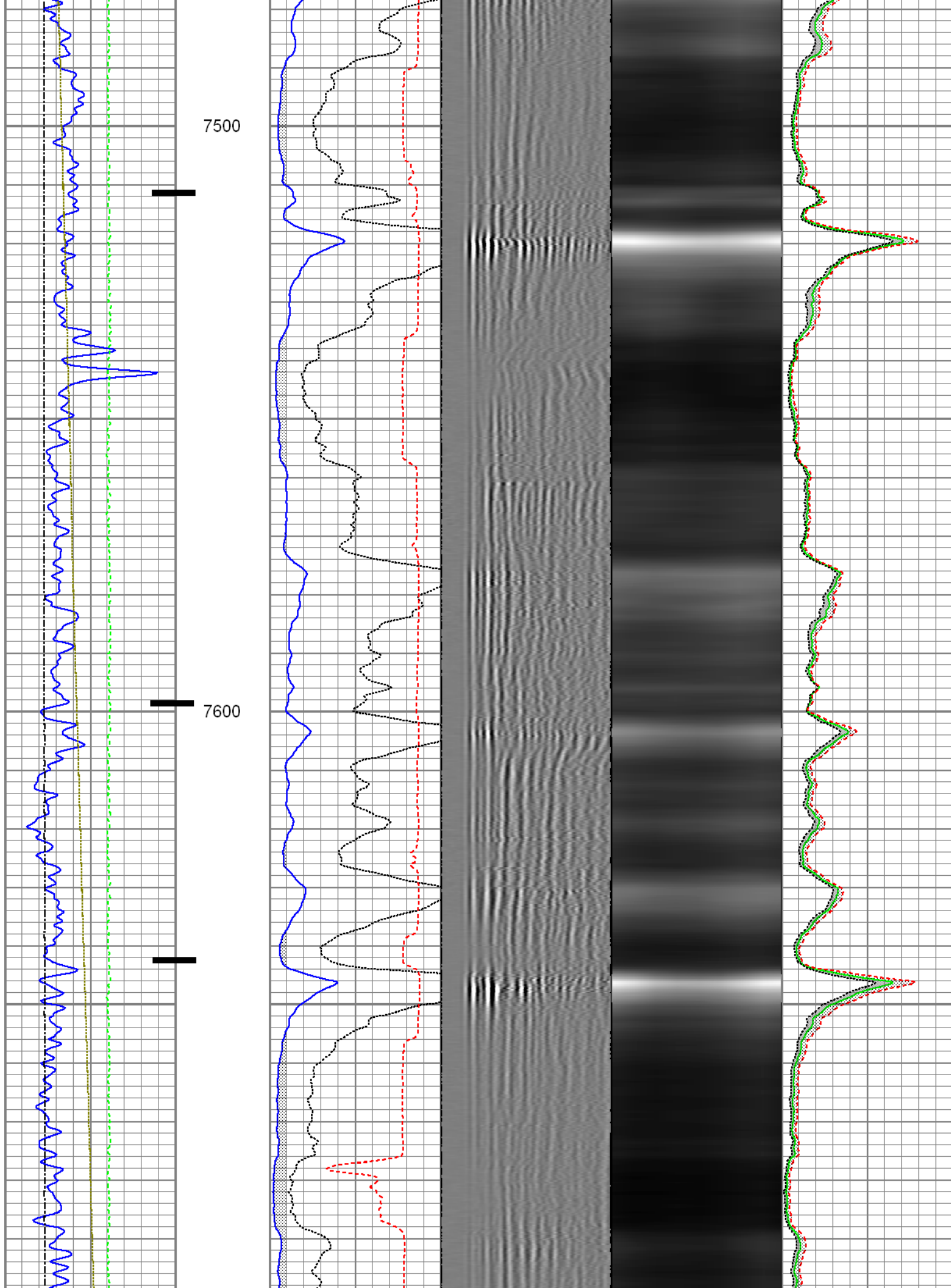
Database File: 0512339439\_anadarko\_front range farms 37c-14hz\_01-17-15\_mt\_rbl.db  
 Dataset Pathname: pass5.1  
 Presentation Format: rbt4\_mit  
 Dataset Creation: Mon Jan 19 10:19:04 2015 by Calc SCH 120430  
 Charted by: Depth in Feet scaled 1:240

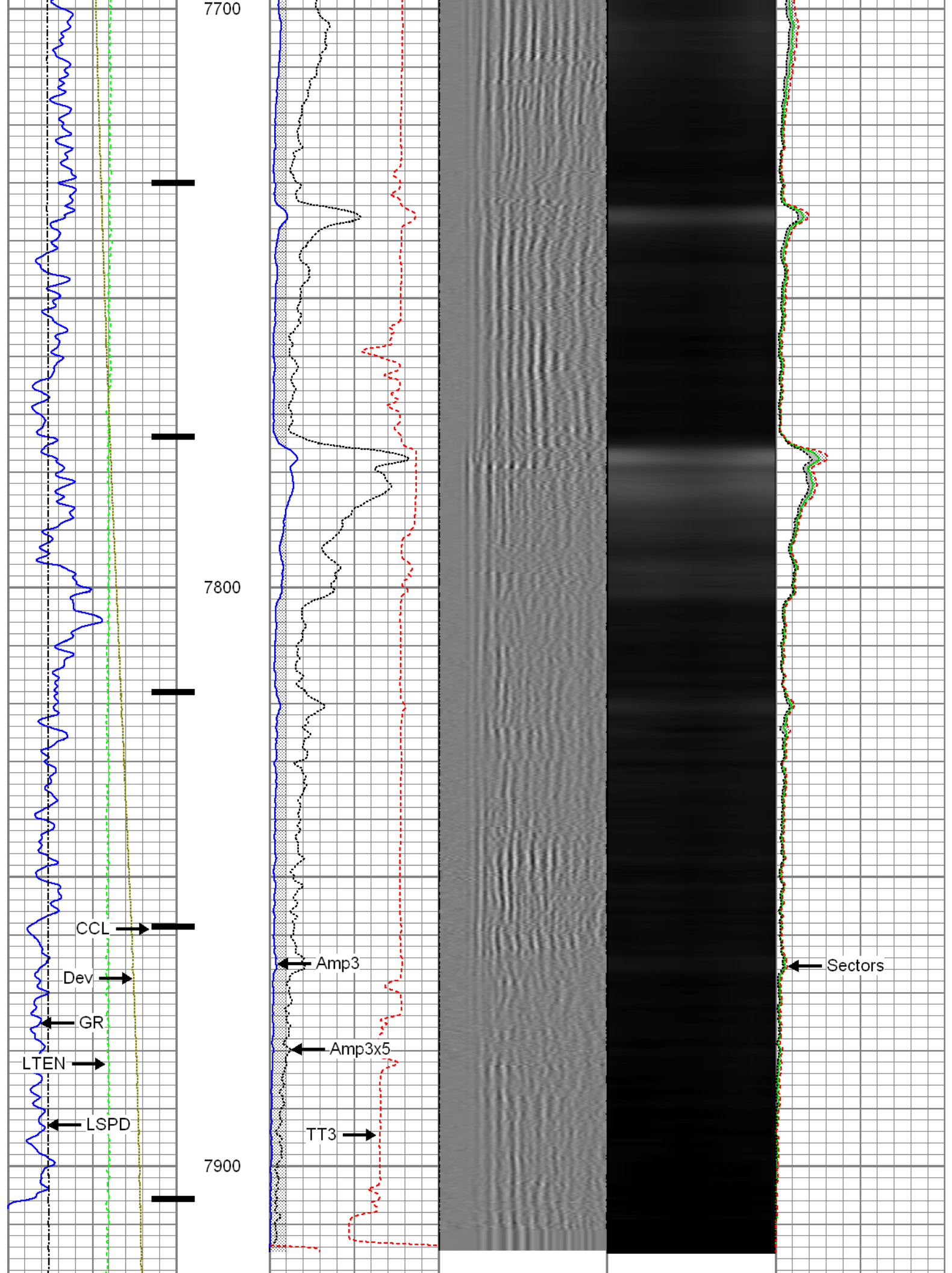
Gamma Ray 0 (GAPI) 120	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Line Speed -100 (ft/min) 100	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100
Line Tension 0 (lb) 2000	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

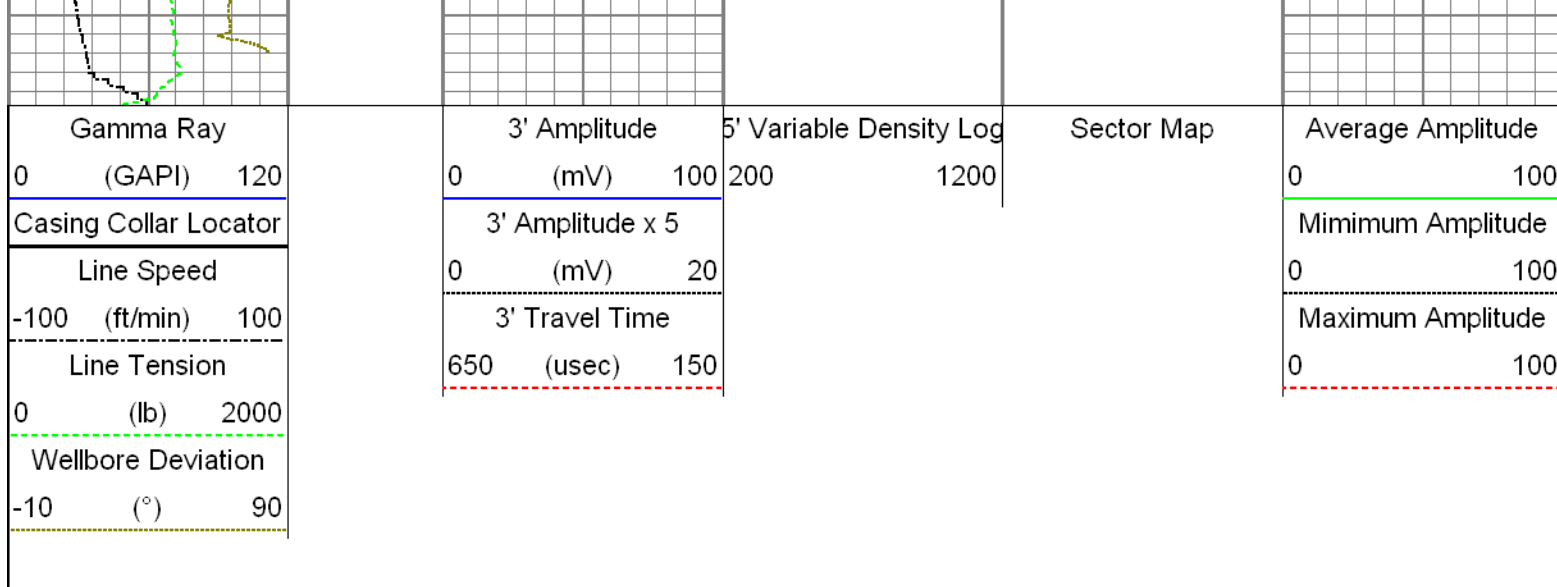












# Repeat Pass

Recorded with 2800 Psi surface induced pressure

Database File: 0512339439\_anadarko\_front range farms 37c-14hz\_01-17-15\_mt\_rbl.db

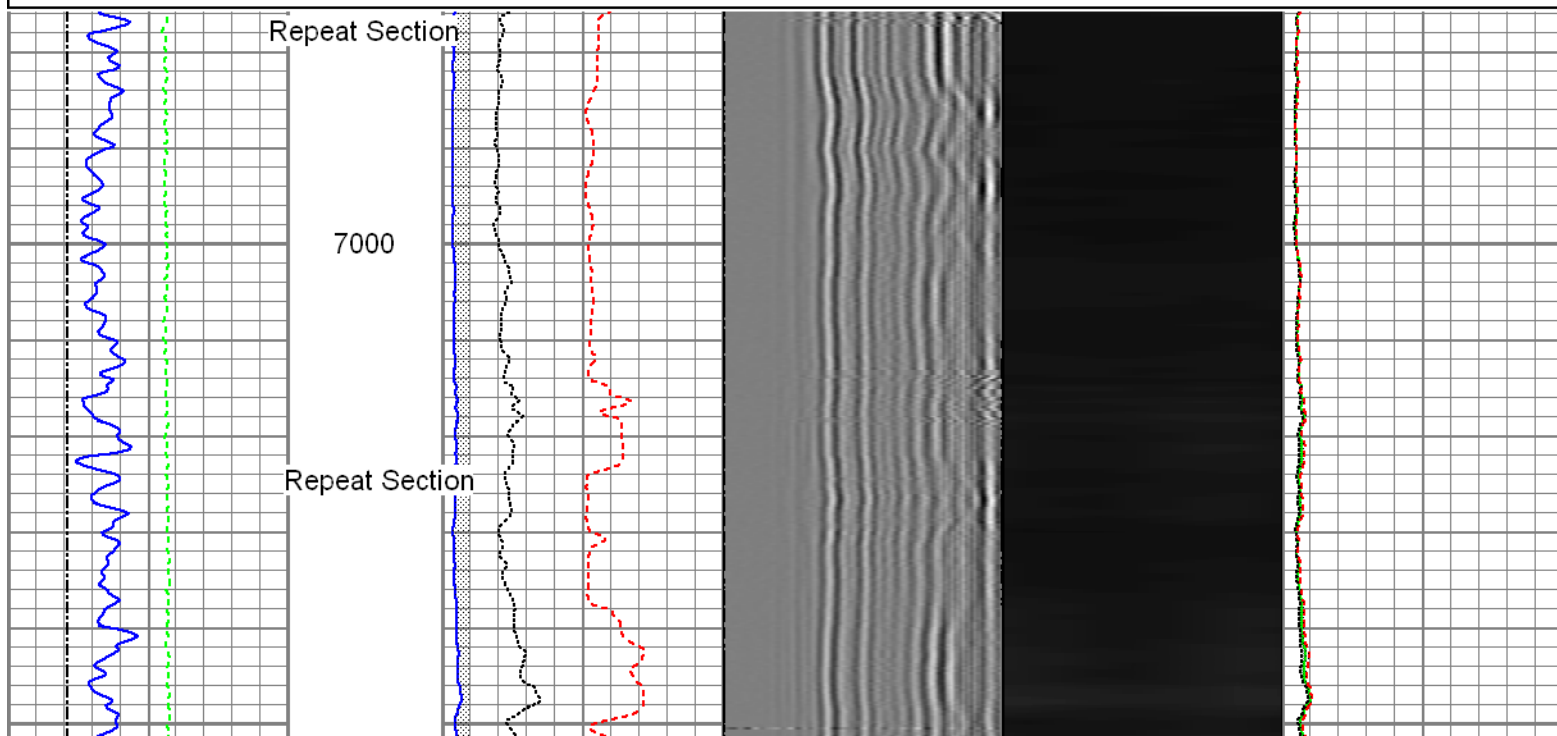
Dataset Pathname: pass3

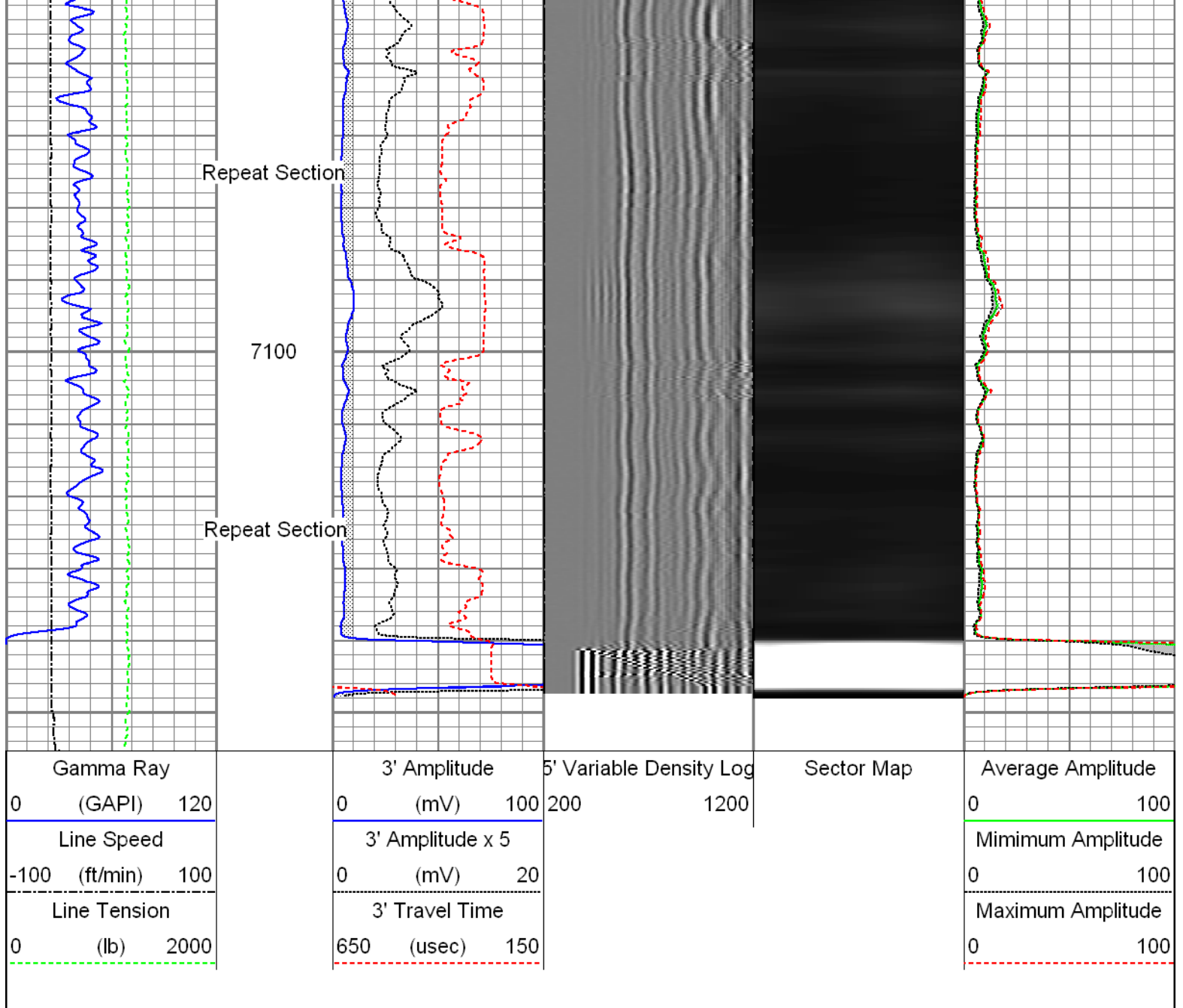
Presentation Format: rbt4\_mit

Dataset Creation: Sat Jan 17 12:29:59 2015 by Log 7.0 B1

Charted by: Depth in Feet scaled 1:240

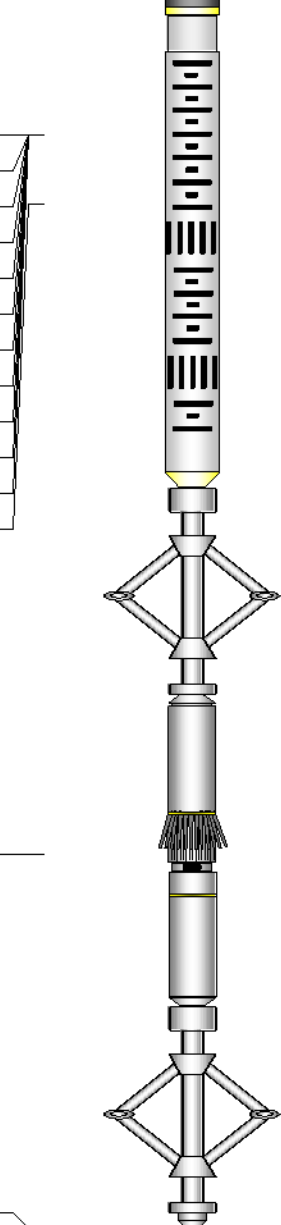
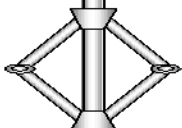
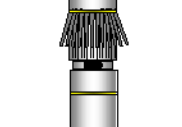
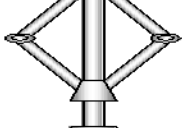

Gamma Ray 0 (GAPI) 120	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Line Speed -100 (ft/min) 100	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Line Tension 0 (lb) 2000	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	23.24		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 (10024281) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10024555) Production Gamma Ray	1.93	1.69	9.50
			UW_PRC-DSSRAC (084) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00



WVF3FT	15.85		UW_RBT-UW_RBT_004 (1063) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS1	15.85					
WVFS2	15.85					
WVFS3	15.85					
WVFS4	15.85					
WVFS5	15.85					
WVFS6	15.85					
WVFS7	15.85					
WVFS8	15.85					
CBLTEMP	15.85		UW_PRC-UW_PRC_057 (1037) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
CBLROT	15.85					
WVF5FT	14.85					
MIT	5.41		UW_MIT-UW_MIT40_042 (10014703) 40 Multifinger Imaging Tool	4.54	2.75	61.10
			UW_PRC #4 -UW_PRC_057 (1102) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
TSTAMP	0.00		UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
Dataset: 0512339439_Anadarko_Front Range Farms 37C-14HZ_01-17-15_MT_RBL.db: field/well/run1/pass3 Total Length: 27.49 ft Total Weight: 319.30 lb O.D. 3.13 in						

Calibration Report			
Database File:	0512339439_anadarko_front range farms 37c-14hz_01-17-15_mt_rbl.db		
Dataset Pathname:	pass12.1		
Dataset Creation:	Mon Jan 19 09:49:52 2015 by Calc SCH 120430		
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		
	Inc X	Inc Y	
Vertical:	1963	1960	
Finger 1 up:	1748	1727	
Finger 31 up:	2195	1742	
Finger 21 up:	2178	2188	
Finger 11 up:	1707	2170	

Finger 11 up: 1727 2173  
Sensitivity ratio: 1.00706  
X-axis angle: 132.825  
Deviation const.: 317.775

Finger Calibration Report  
Performed: Sat Jan 17 11:55:41 2015

Ring size: (in)	4	Sens	5	Sens	6	Sens	7
Finger 01:	1078	356.0	1434	389.0	1823	404.0	2227
Finger 02:	1036	365.0	1401	405.0	1806	425.0	2231
Finger 03:	1034	356.0	1390	392.0	1782	418.0	2200
Finger 04:	1003	368.0	1371	413.0	1784	439.0	2223
Finger 05:	1012	351.0	1363	385.0	1748	407.0	2155
Finger 06:	1025	368.0	1393	399.0	1792	424.0	2216
Finger 07:	1038	368.0	1406	394.0	1800	415.0	2215
Finger 08:	1005	366.0	1371	405.0	1776	430.0	2206
Finger 09:	1083	372.0	1455	391.0	1846	404.0	2250
Finger 10:	1073	373.0	1446	396.0	1842	416.0	2258
Finger 11:	1027	363.0	1390	395.0	1785	416.0	2201
Finger 12:	1130	367.0	1497	371.0	1868	384.0	2252
Finger 13:	1079	364.0	1443	390.0	1833	416.0	2249
Finger 14:	1052	378.0	1430	403.0	1833	431.0	2264
Finger 15:	1026	370.0	1396	402.0	1798	433.0	2231
Finger 16:	1062	367.0	1429	394.0	1823	422.0	2245
Finger 17:	1113	359.0	1472	380.0	1852	401.0	2253
Finger 18:	1156	363.0	1519	383.0	1902	406.0	2308
Finger 19:	1102	369.0	1471	390.0	1861	415.0	2276
Finger 20:	1037	363.0	1400	396.0	1796	430.0	2226
Finger 21:	1093	354.0	1447	382.0	1829	412.0	2241
Finger 22:	1081	357.0	1438	388.0	1826	416.0	2242
Finger 23:	1140	361.0	1501	386.0	1887	413.0	2300
Finger 24:	1102	330.0	1432	355.0	1787	388.0	2175
Finger 25:	1121	362.0	1483	395.0	1878	416.0	2294
Finger 26:	1070	345.0	1415	382.0	1797	413.0	2210
Finger 27:	1243	367.0	1610	393.0	2003	408.0	2411
Finger 28:	1110	338.0	1448	375.0	1823	407.0	2230
Finger 29:	1049	345.0	1394	390.0	1784	422.0	2206
Finger 30:	1021	340.0	1361	393.0	1754	425.0	2179
Finger 31:	1237	370.0	1607	404.0	2011	421.0	2432
Finger 32:	1021	342.0	1363	382.0	1745	406.0	2151
Finger 33:	1202	383.0	1585	418.0	2003	436.0	2439
Finger 34:	983	343.0	1326	389.0	1715	420.0	2135
Finger 35:	1135	364.0	1499	410.0	1909	428.0	2337
Finger 36:	1040	331.0	1371	374.0	1745	399.0	2144
Finger 37:	1126	367.0	1493	408.0	1901	424.0	2325
Finger 38:	1087	344.0	1431	384.0	1815	405.0	2220
Finger 39:	1059	336.0	1395	372.0	1767	396.0	2163
Finger 40:	978	364.0	1342	417.0	1759	443.0	2202

Segmented Cement Bond Log Calibration Report


Serial Number: 1063  
Tool Model: UW\_RBT\_004  
  
Calibration Casing Diameter: 7.000 in  
Calibration Depth: 724.708 ft

Master Calibration, performed Mon Jan 19 09:49:47 2015:

Raw (v)		Calibrated (mv)		Results	
Zero	Cal	Zero	Cal	Gain	Offset

3FT	0.033	0.577	0.800	62.165	112.770	-2.907
5FT	0.002	0.594	0.800	62.165	103.732	0.590
S1	0.032	0.589	0.000	100.000	179.480	-5.687
S2	0.034	0.601	0.000	100.000	176.470	-6.057
S3	0.036	0.593	0.000	100.000	179.525	-6.470
S4	0.034	0.591	0.000	100.000	179.484	-6.156
S5	0.032	0.571	0.000	100.000	185.620	-5.943
S6	0.030	0.555	0.000	100.000	190.328	-5.664
S7	0.030	0.559	0.000	100.000	189.017	-5.586
S8	0.030	0.567	0.000	100.000	186.086	-5.572

Gamma Ray Calibration Report						
Serial Number:	10024555					
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 and Gas Onshore LP
	Well	Front Range Farms 37C-14HZ
	Field	Wattenberg
	County	Weld
	State	Colorado