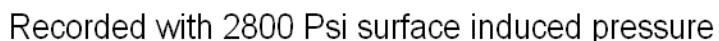




<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 +28.5 FT to adjust to KB. Logging Tools were clean and free of debris upon retrieval from the wellbore Thank you for Choosing FMC Technologies Completion Services, Inc.!!



Database File:0512339435_anadarko_front range farms 16n-14hz_01-18-15_mit_rbl.db

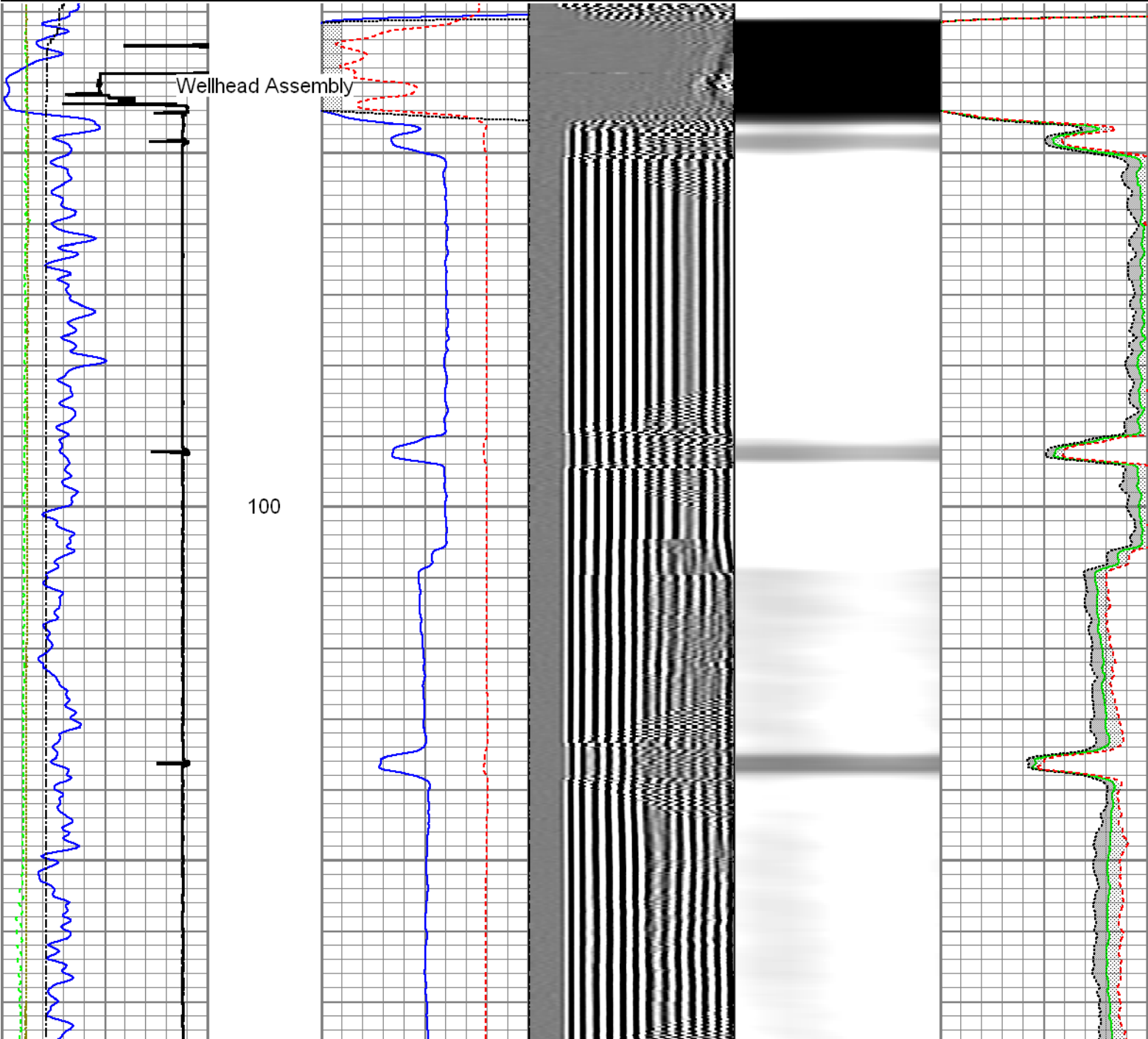
Dataset Pathname:pass5.1

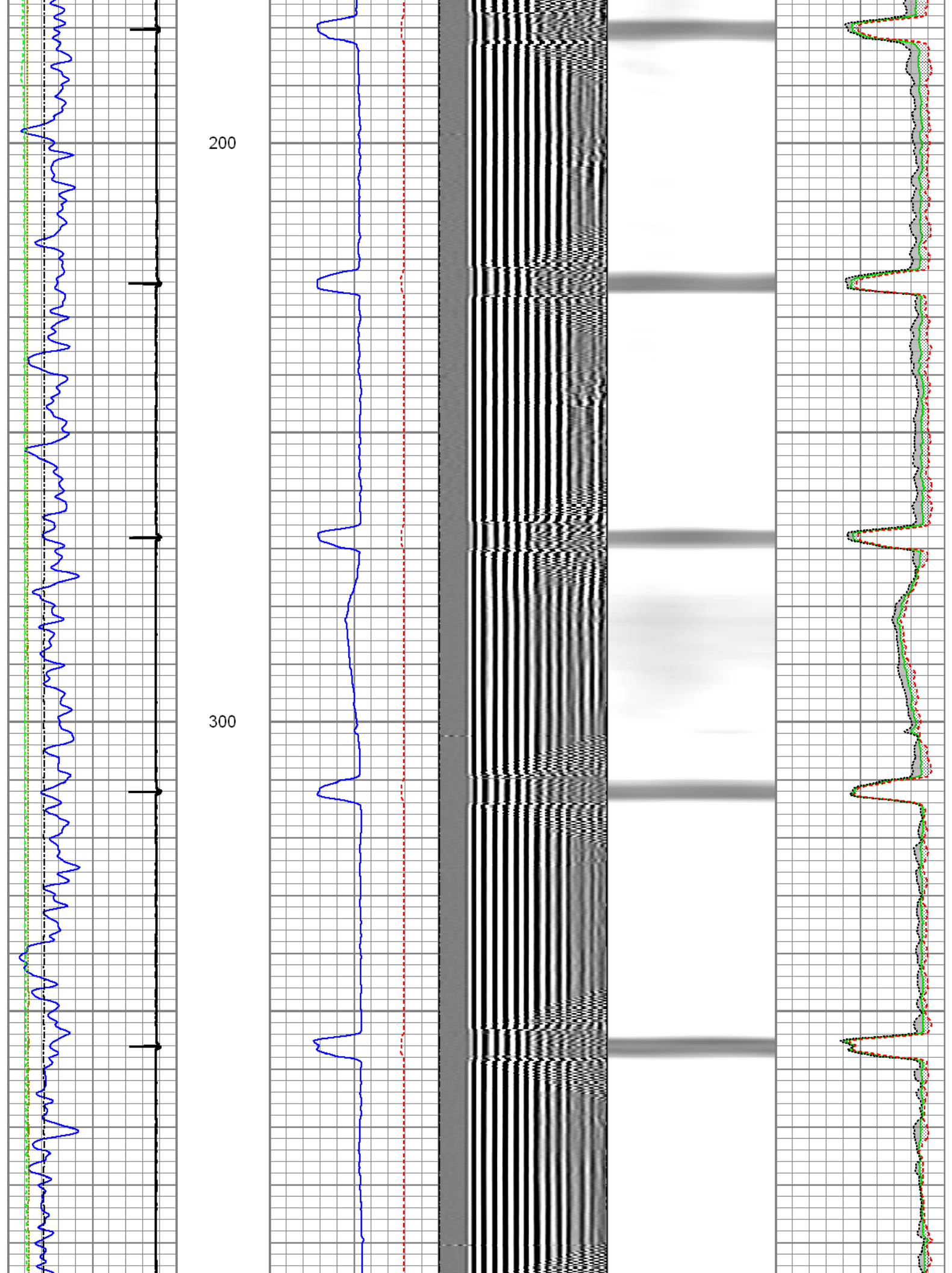
Presentation Format:rbt4_mit

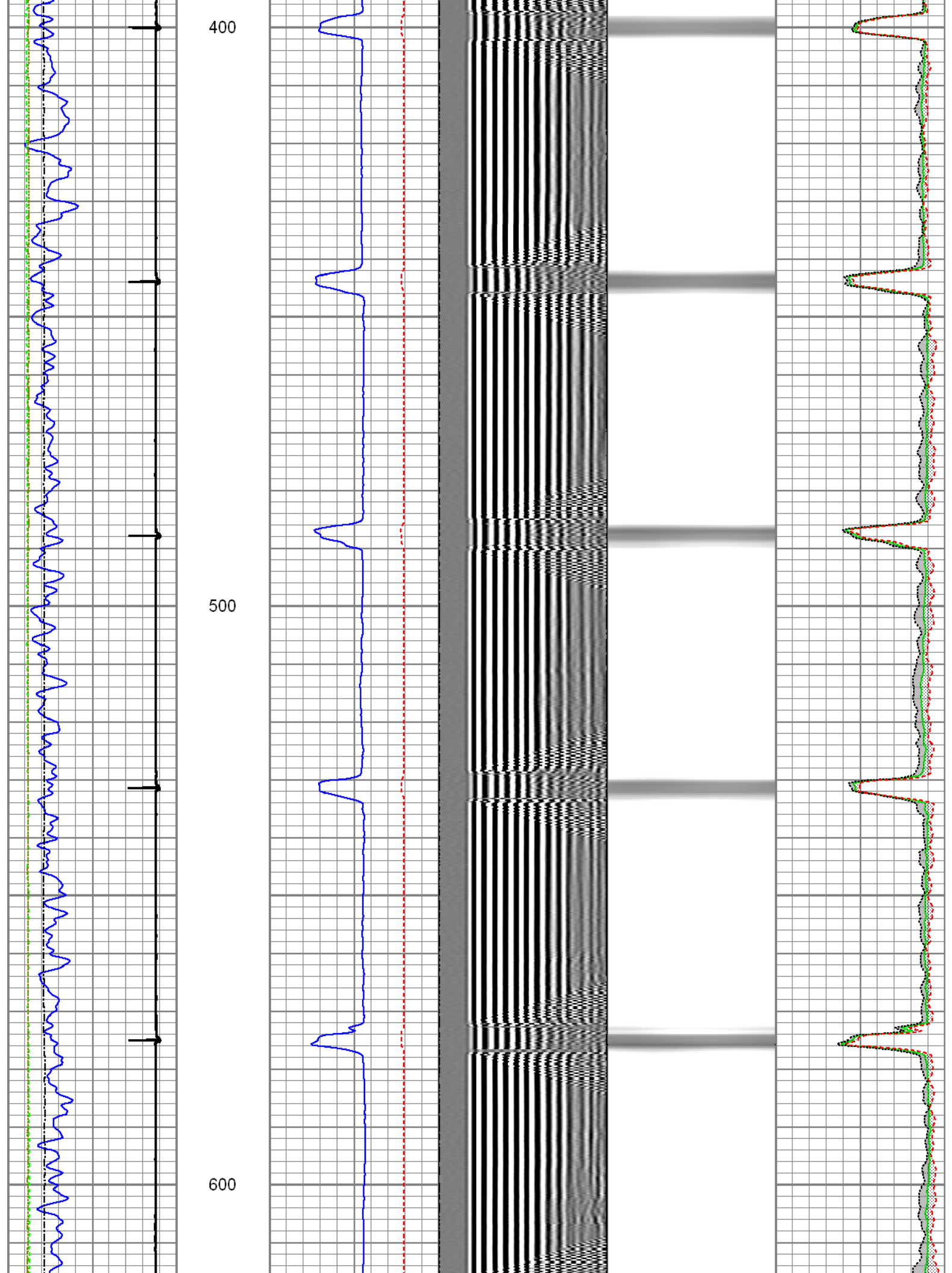
Dataset Creation:Mon Jan 19 08:08:50 2015 by Calc SCH 120430

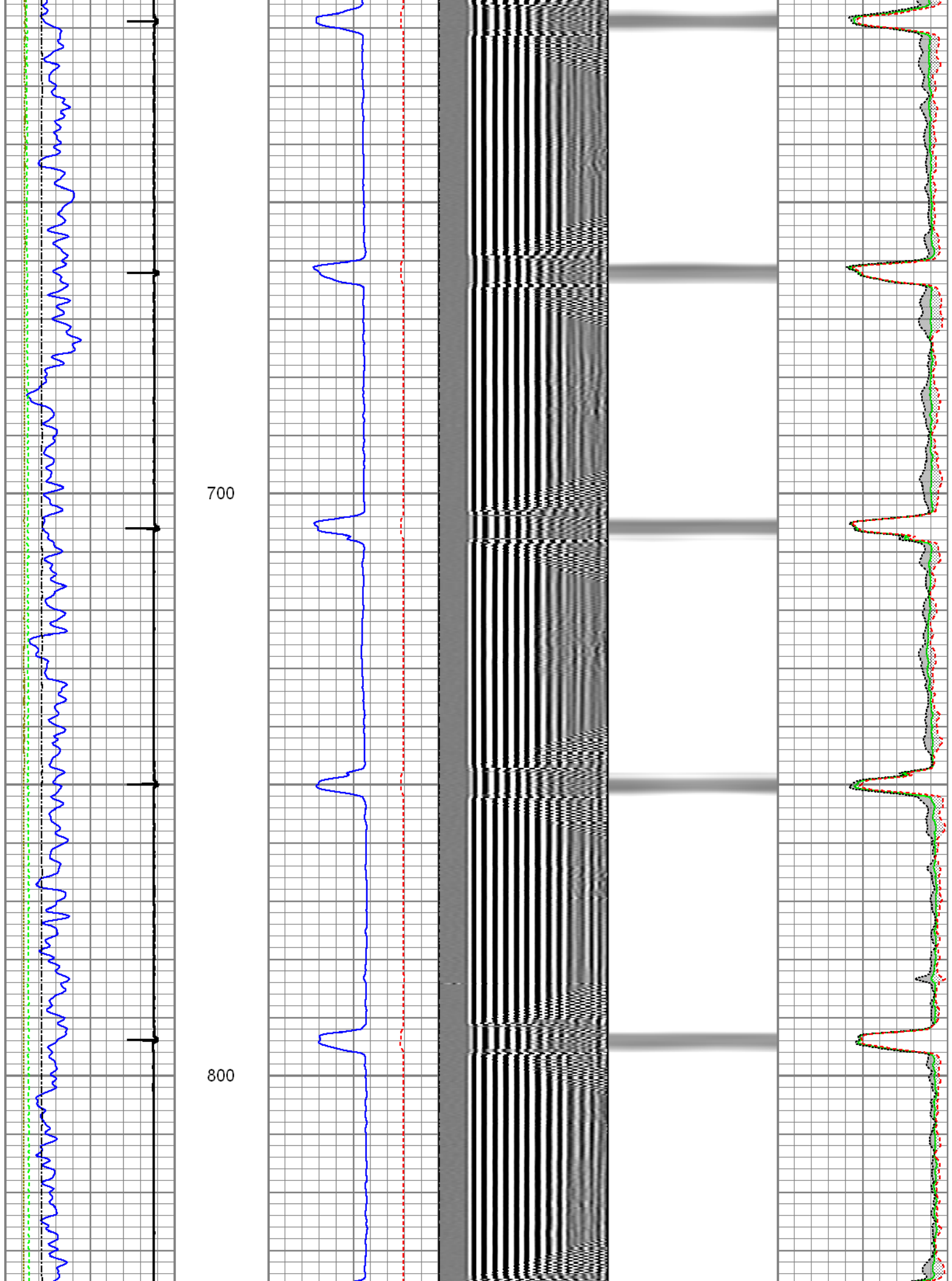
Charted by:Depth in Feet scaled 1:240

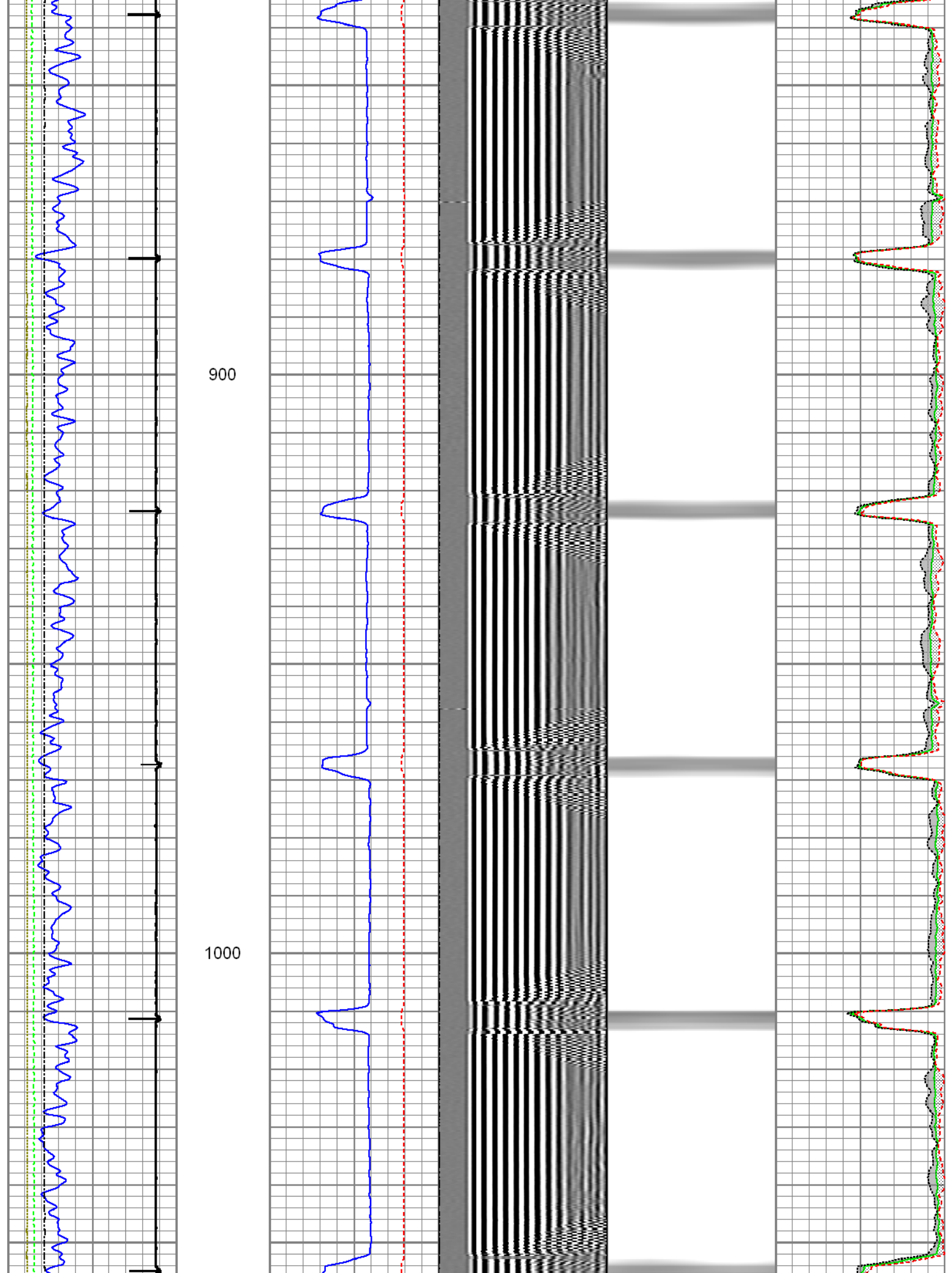
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000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

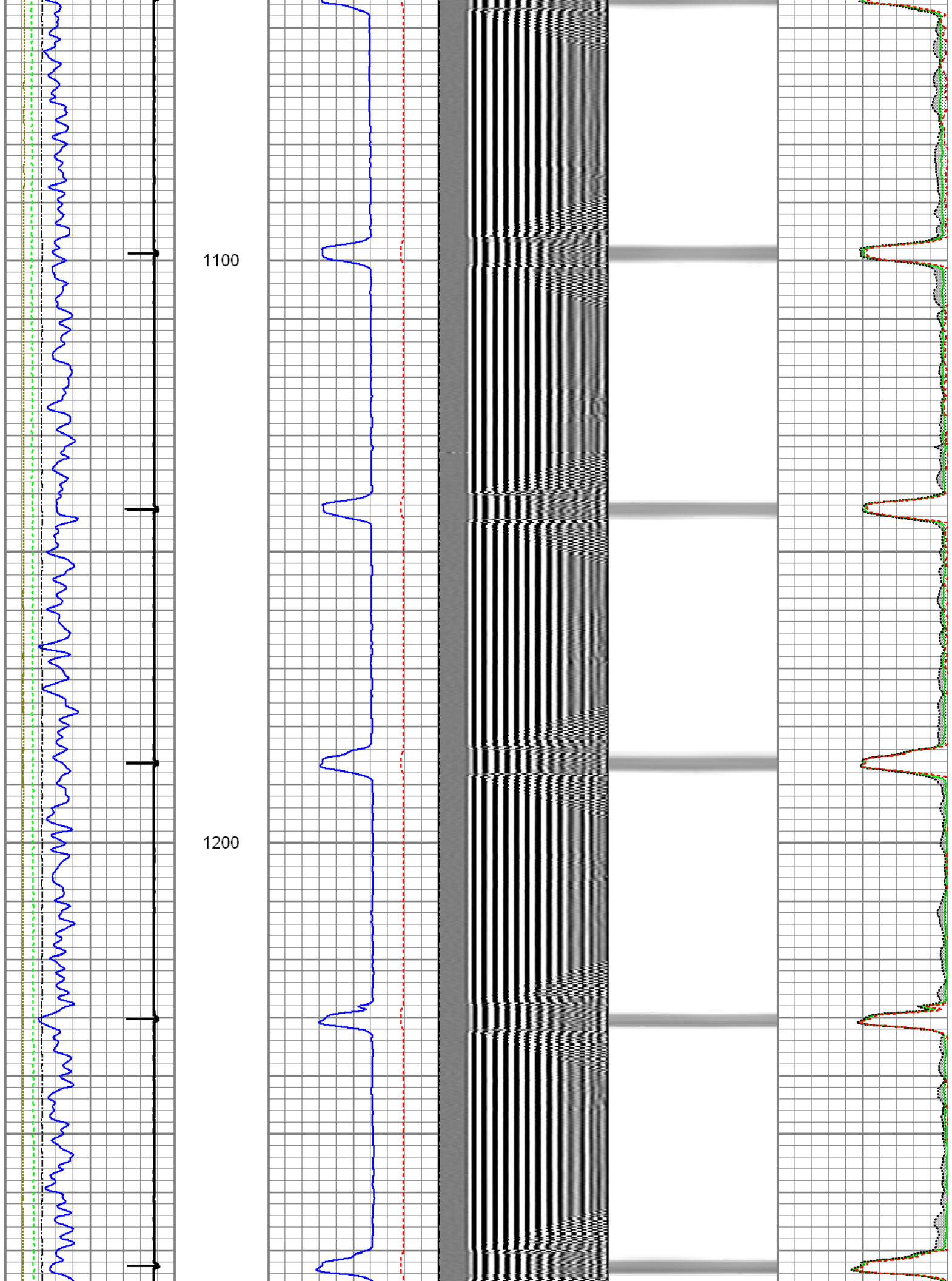


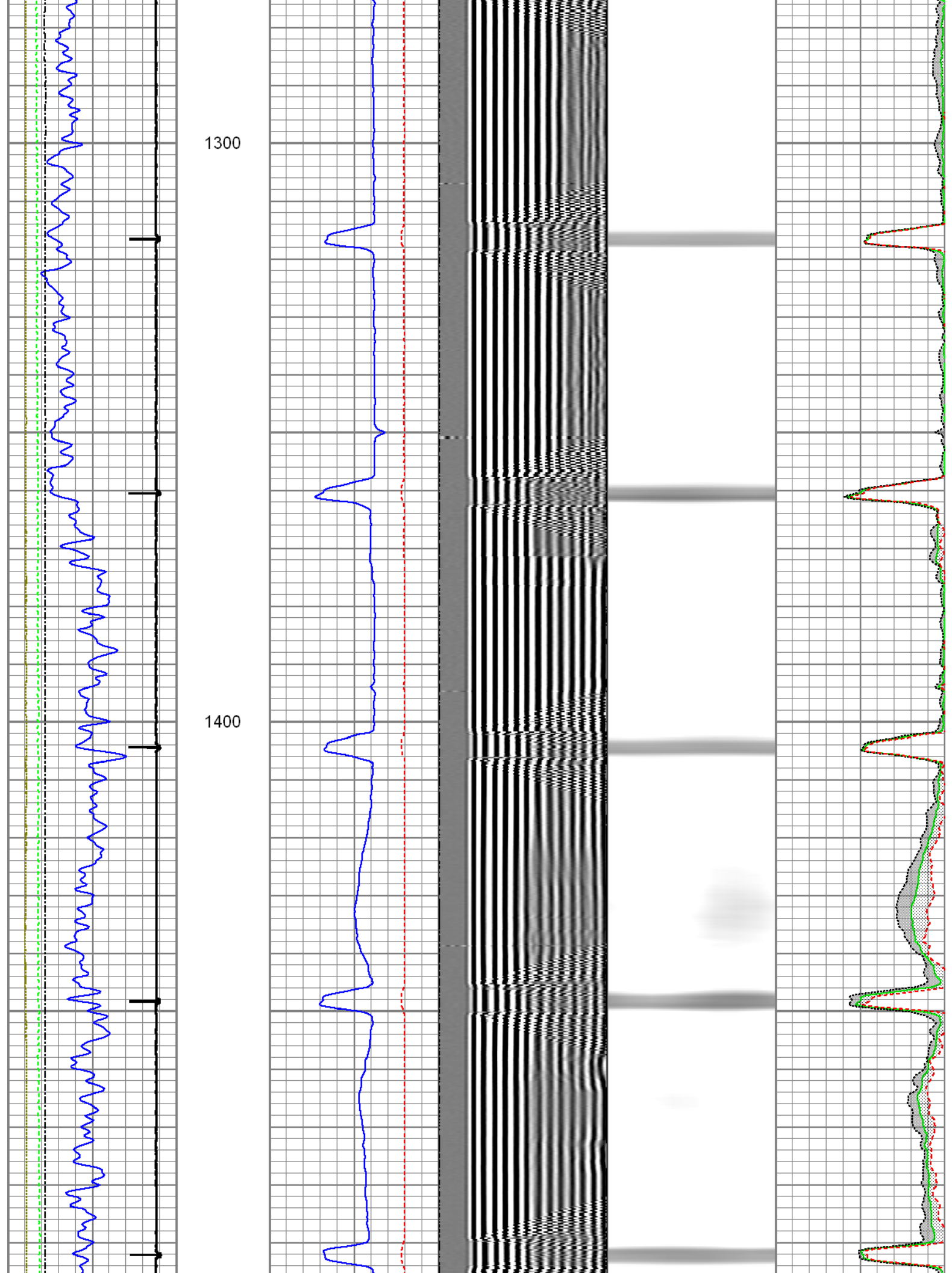


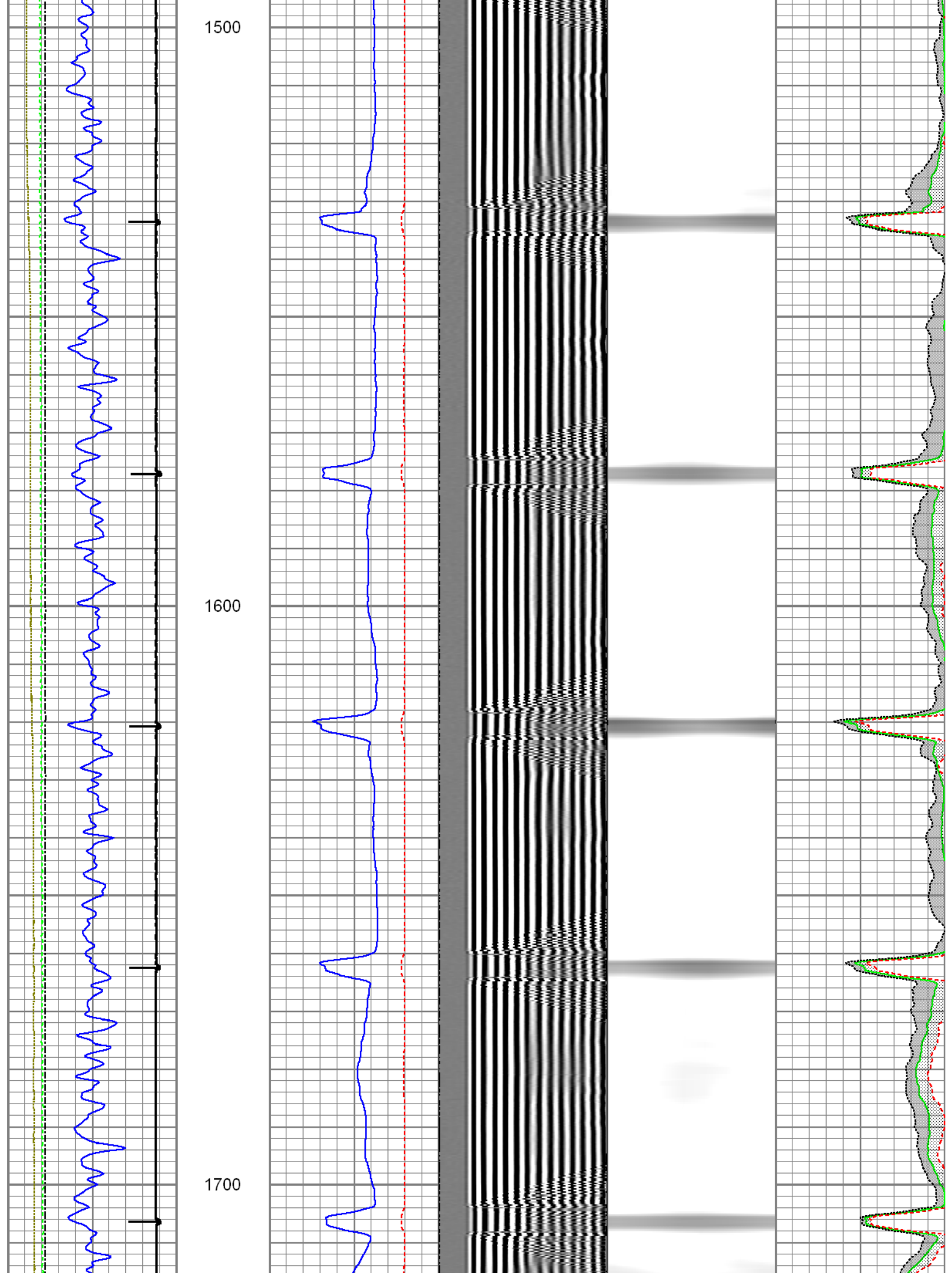


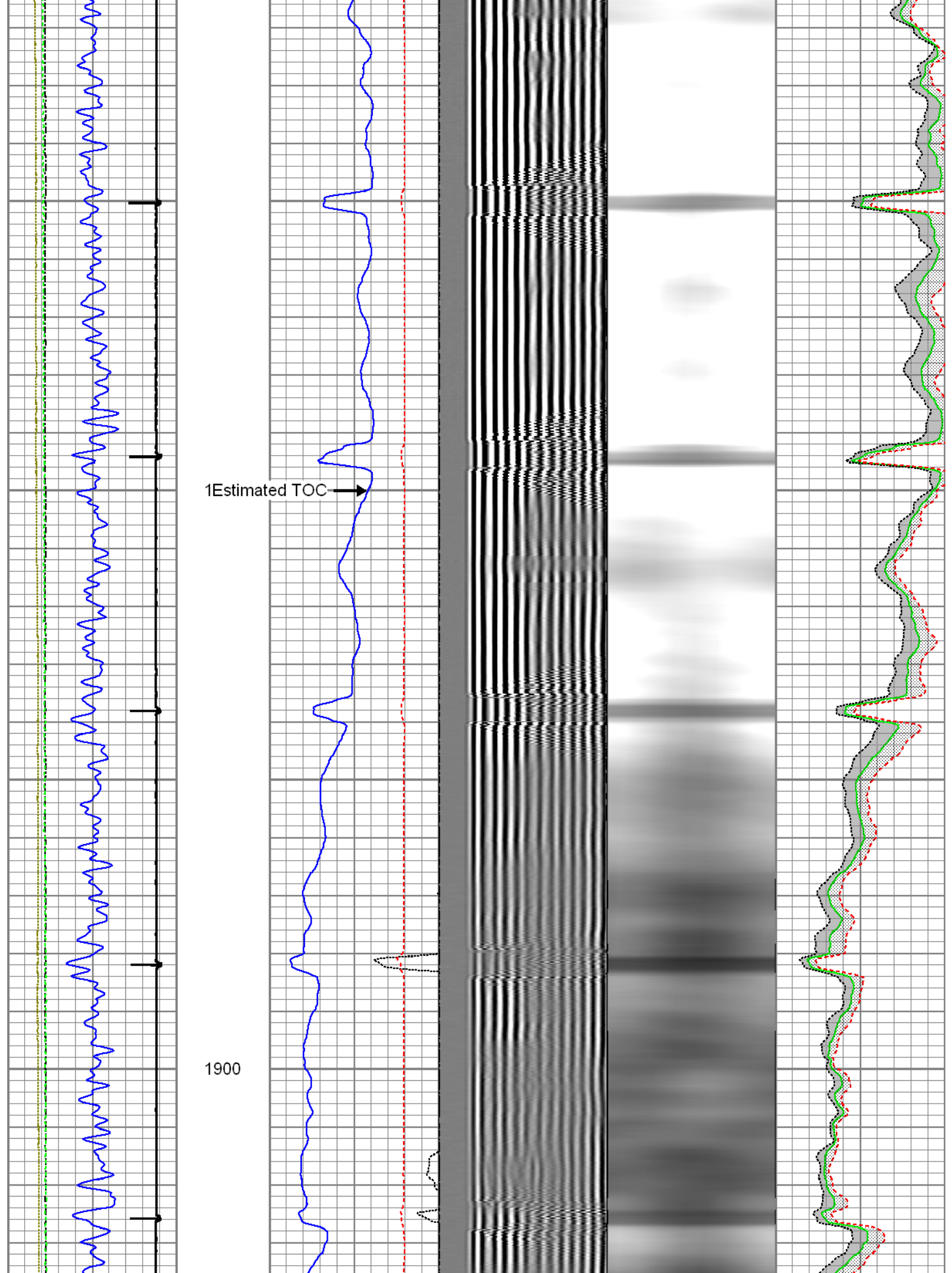


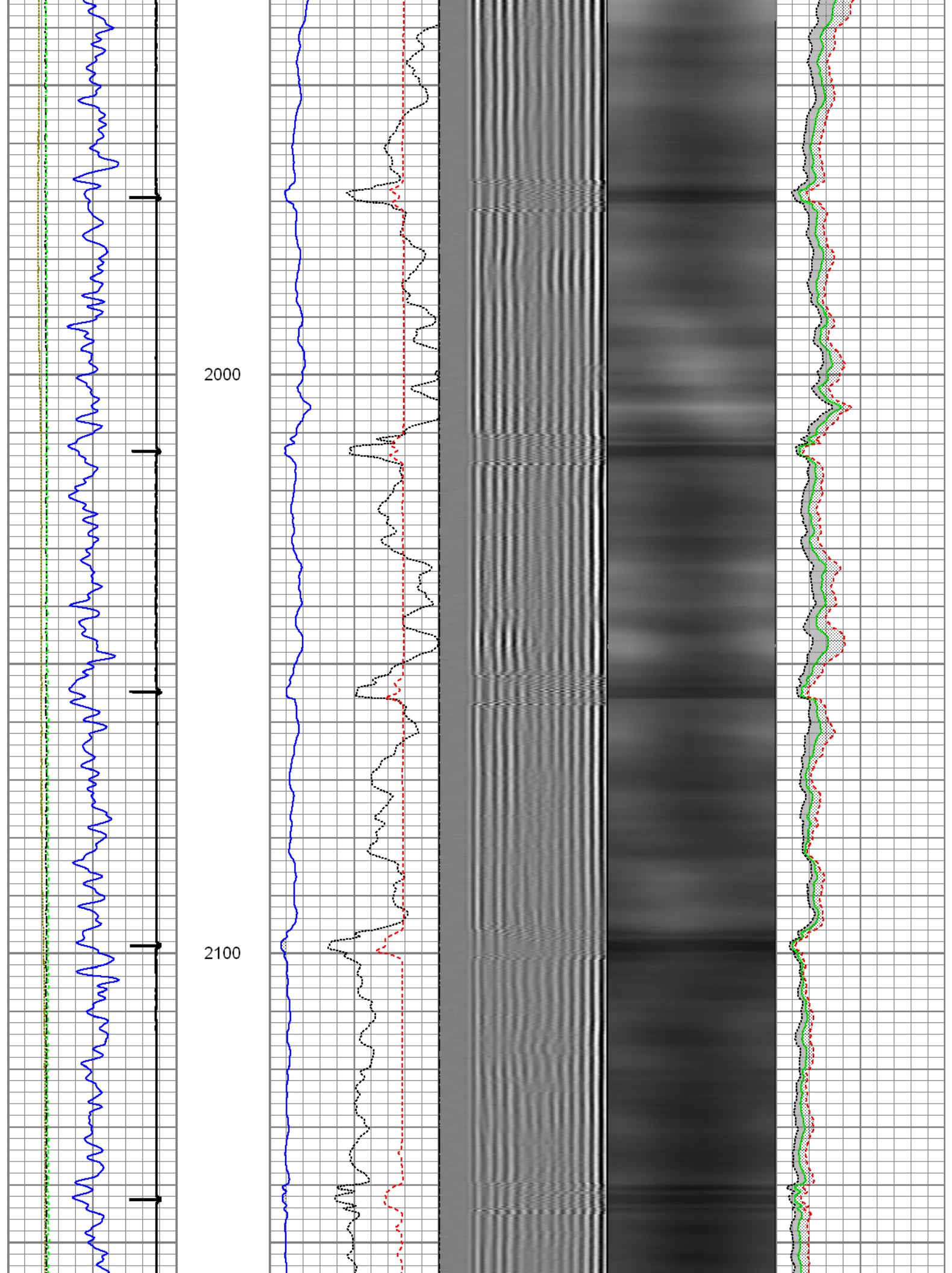


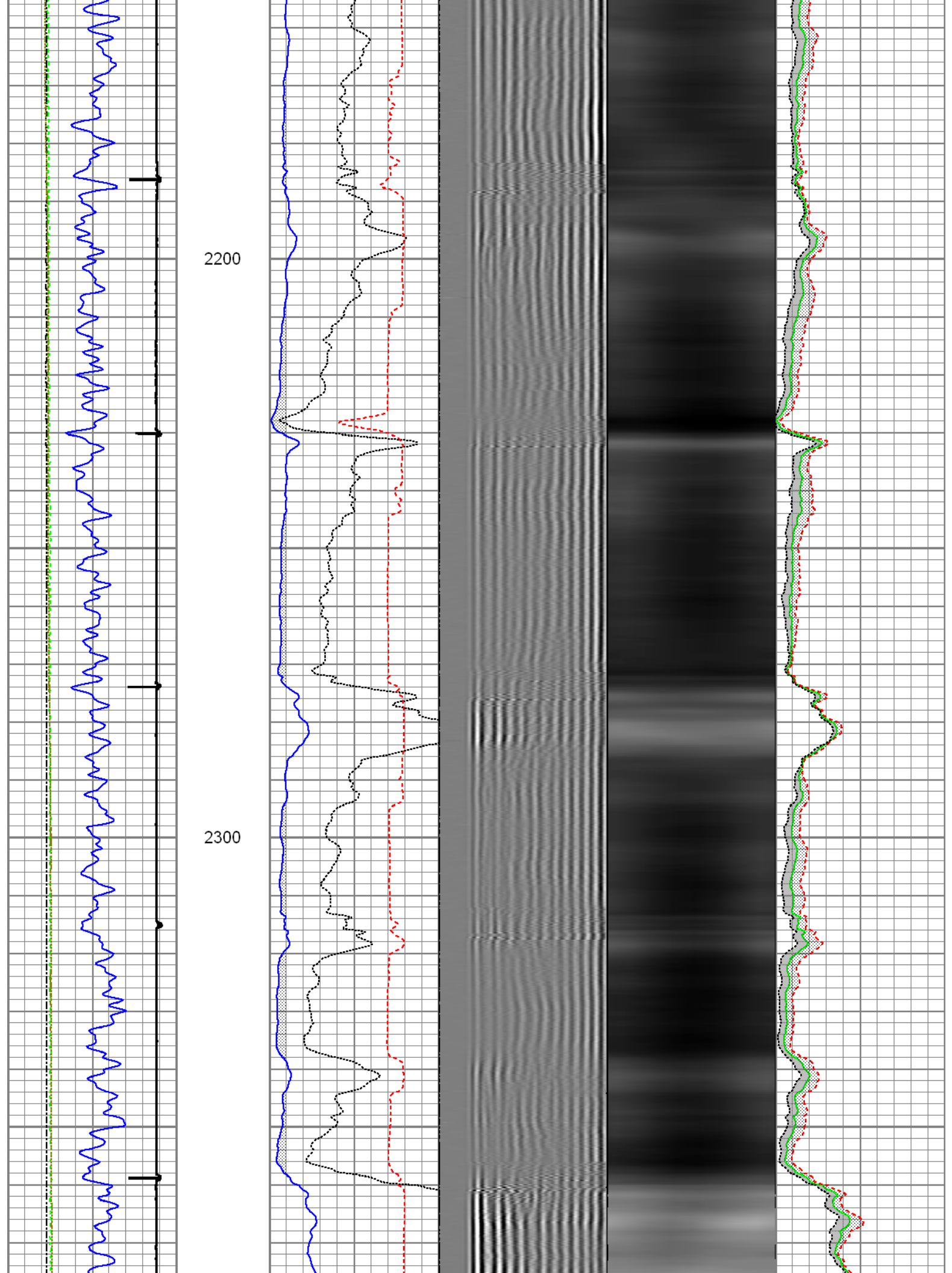


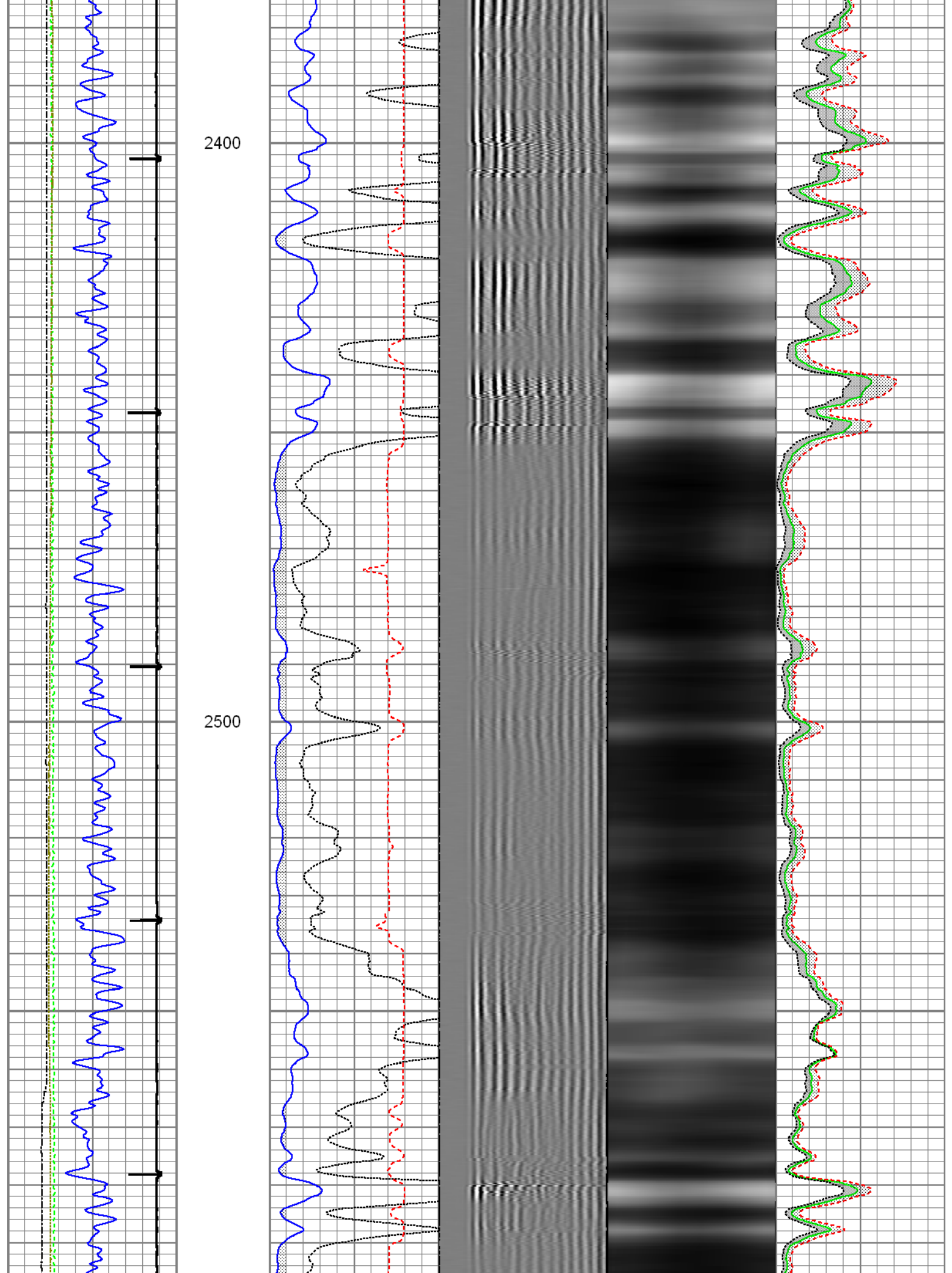








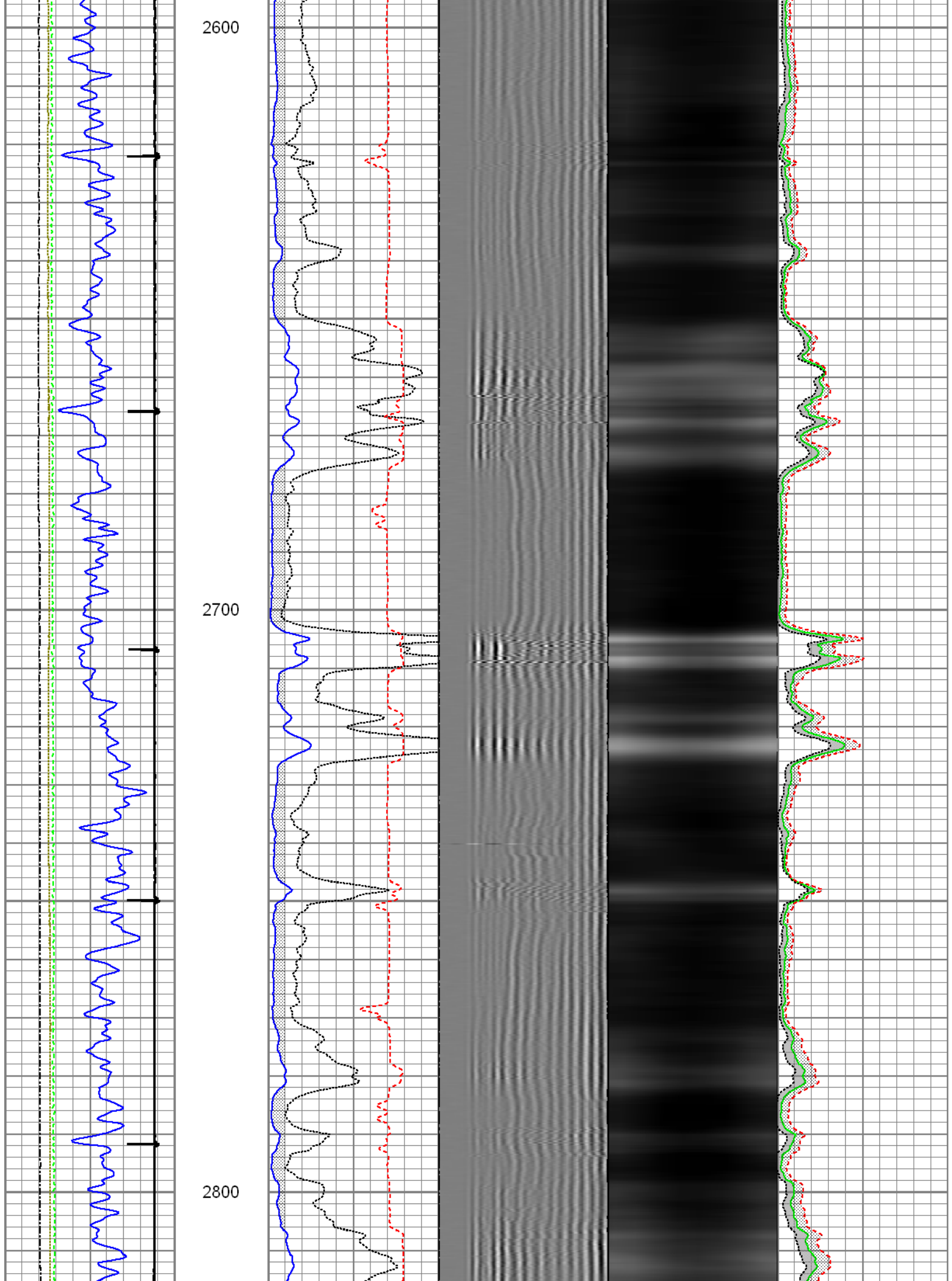


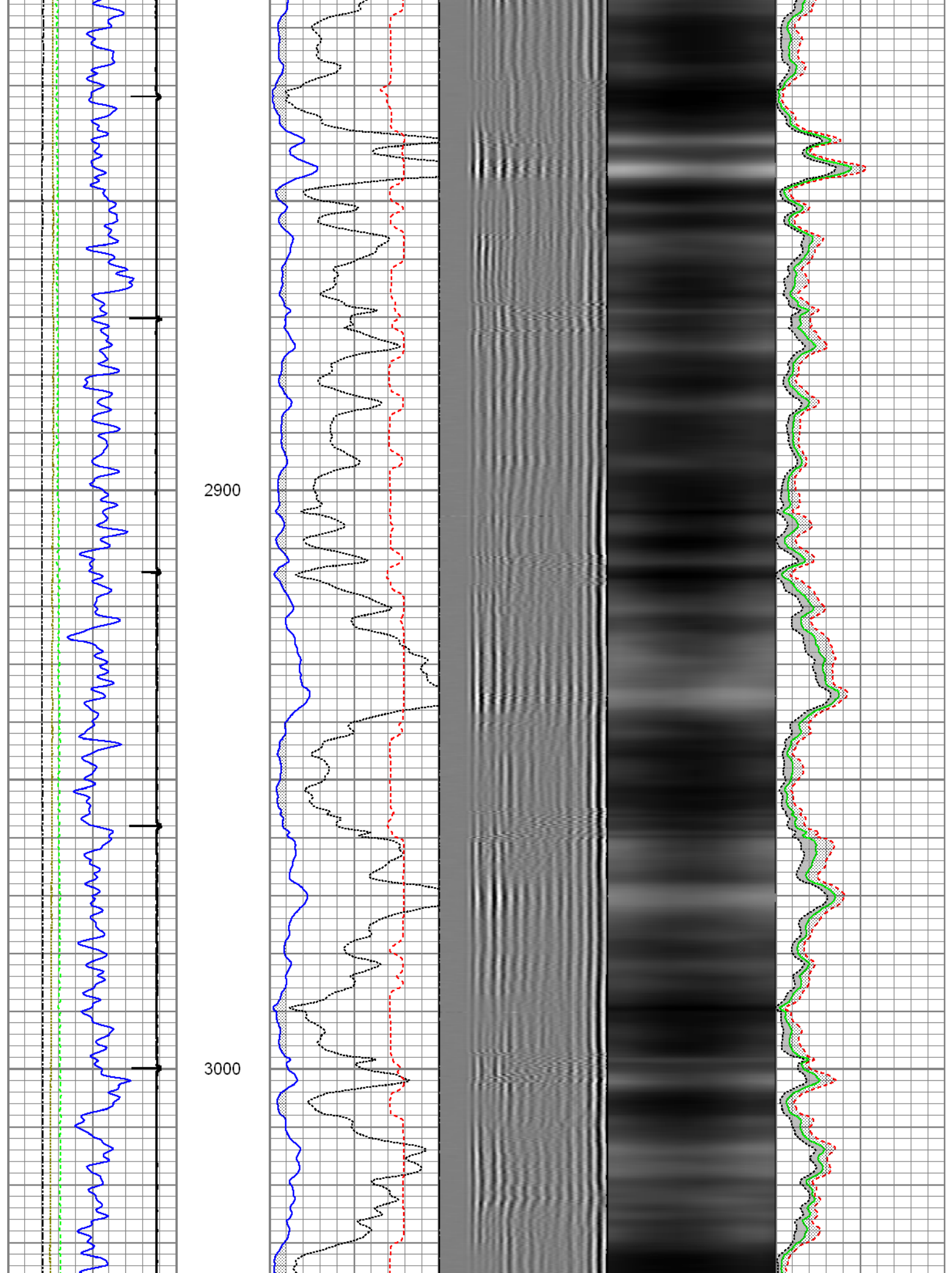


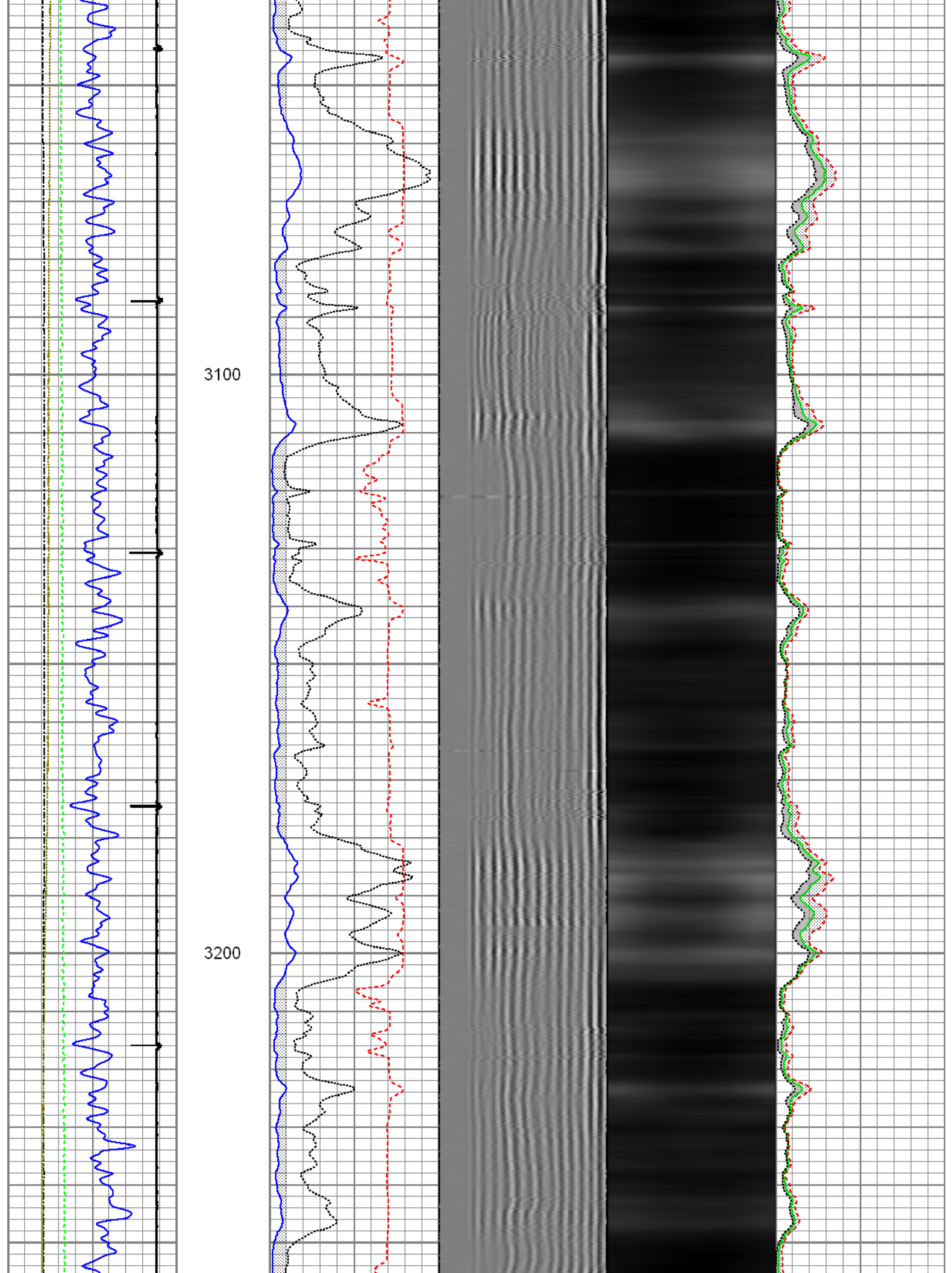
2600

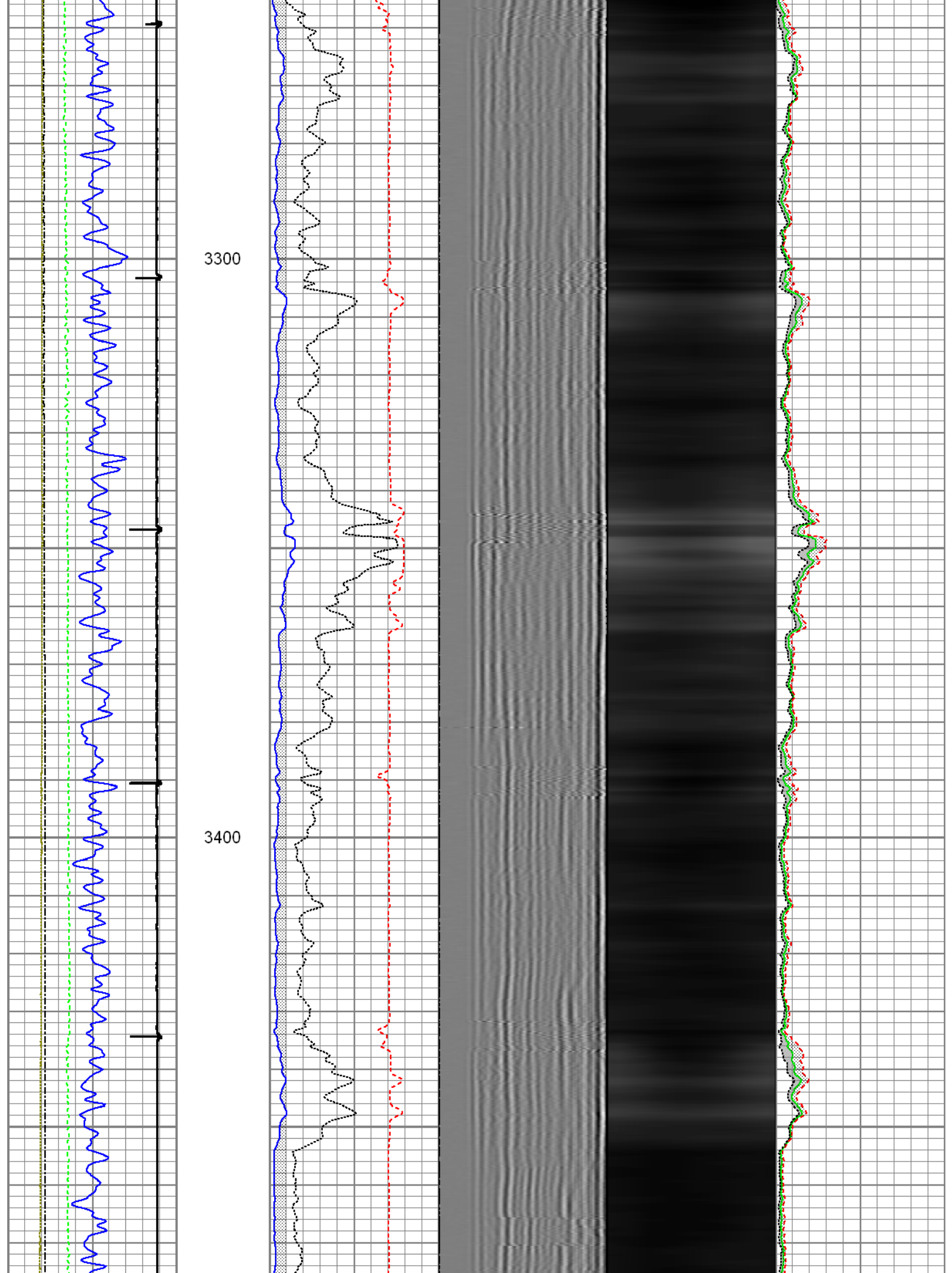
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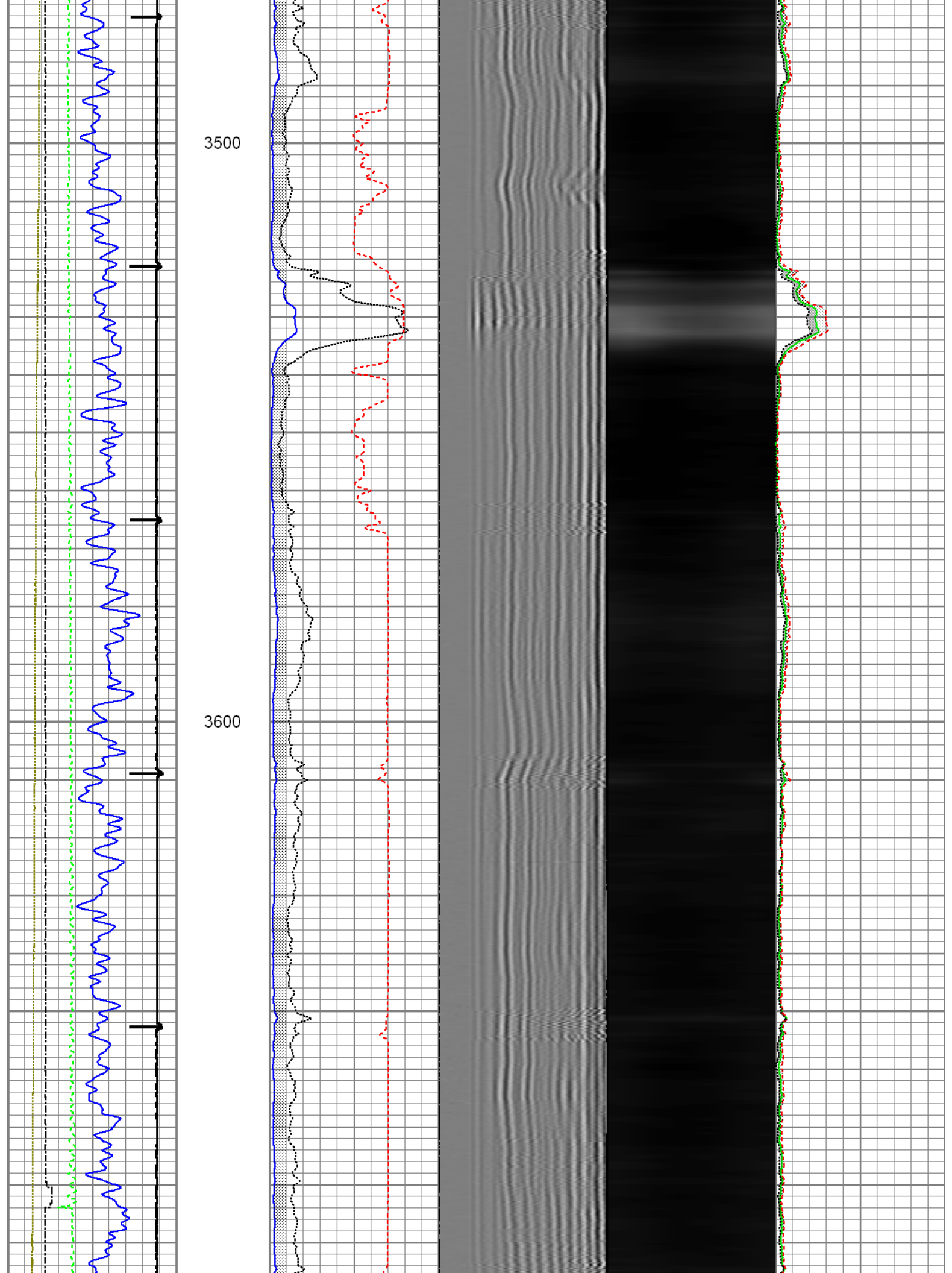
2800







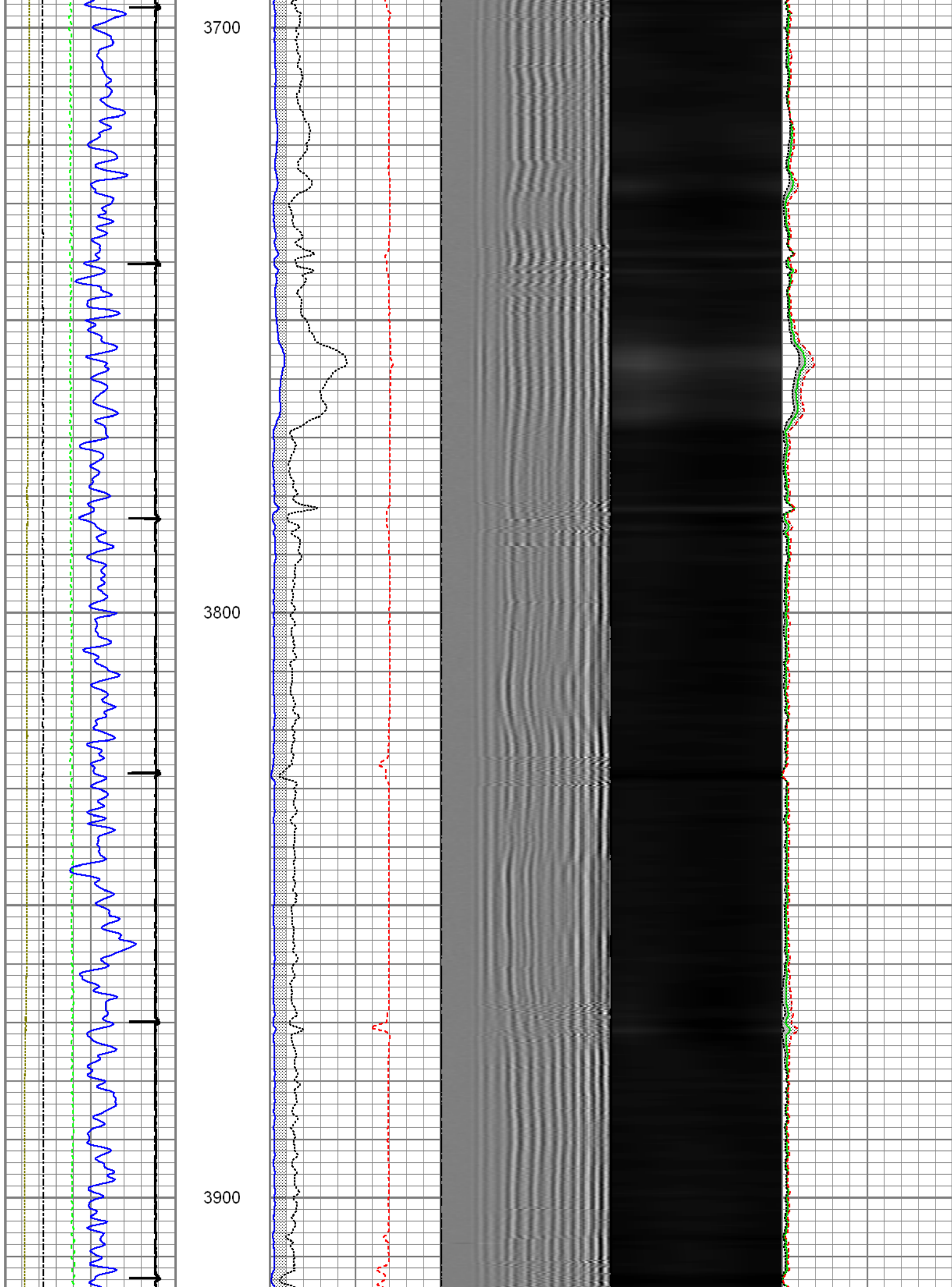


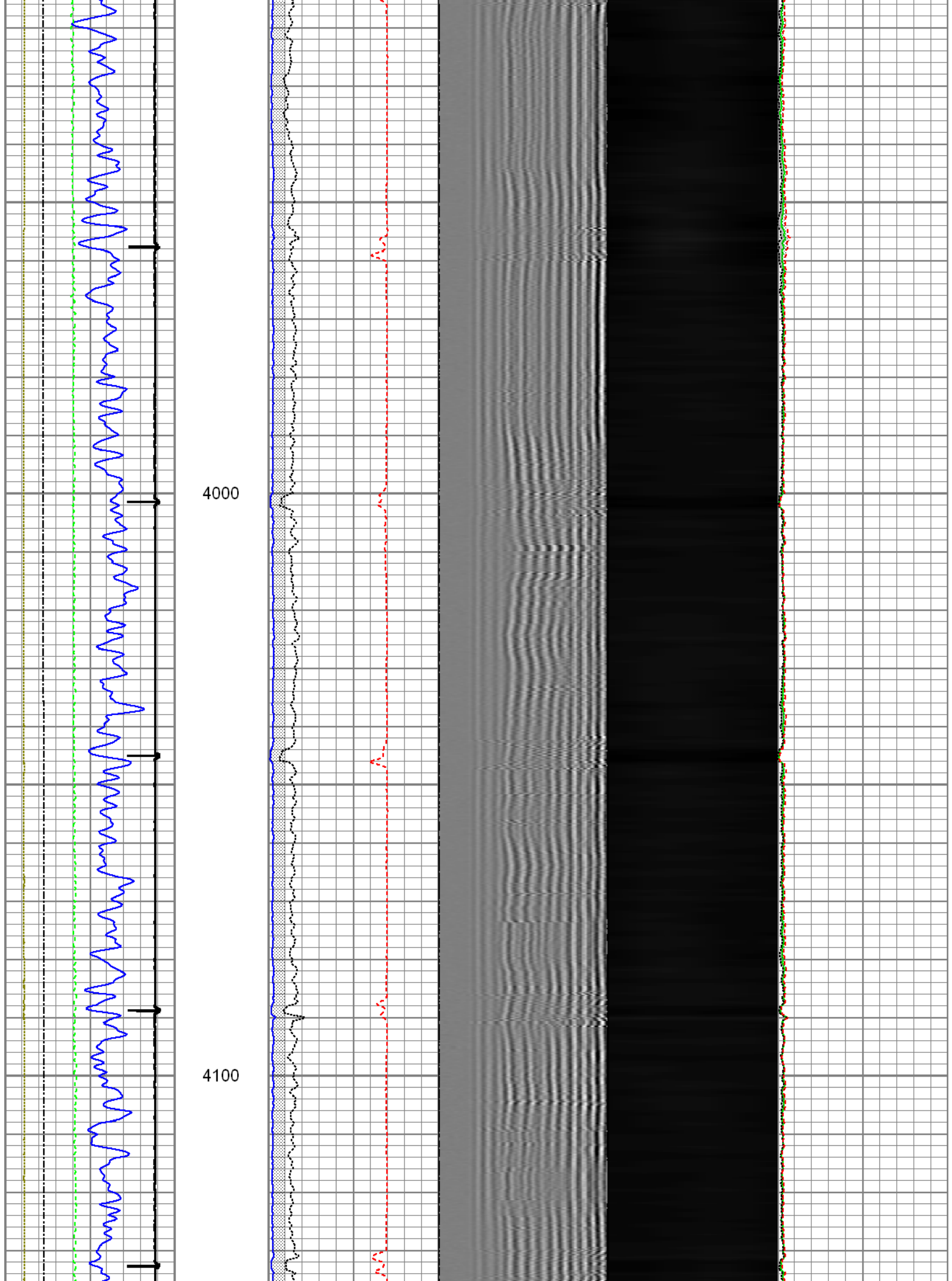


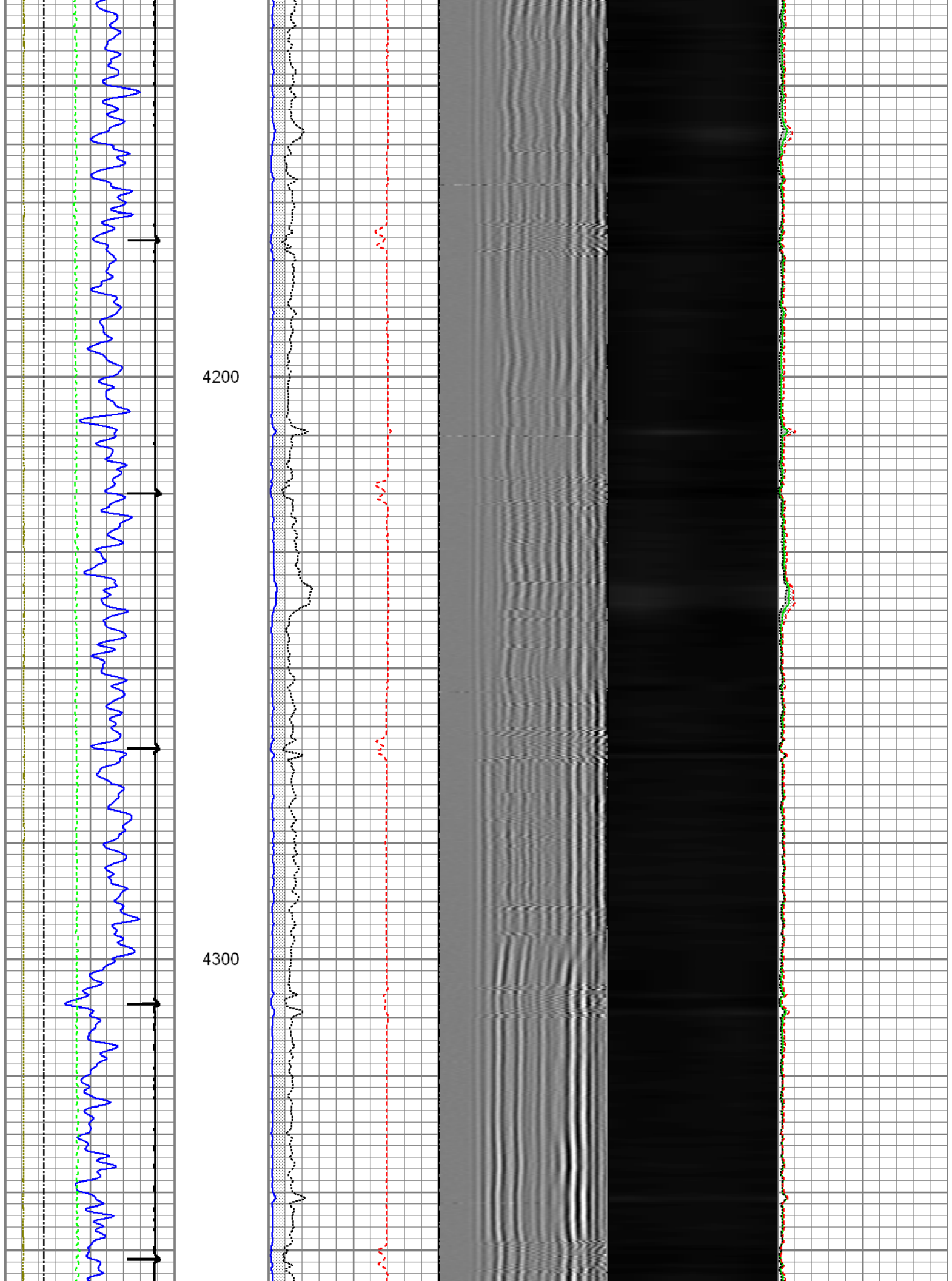
3700

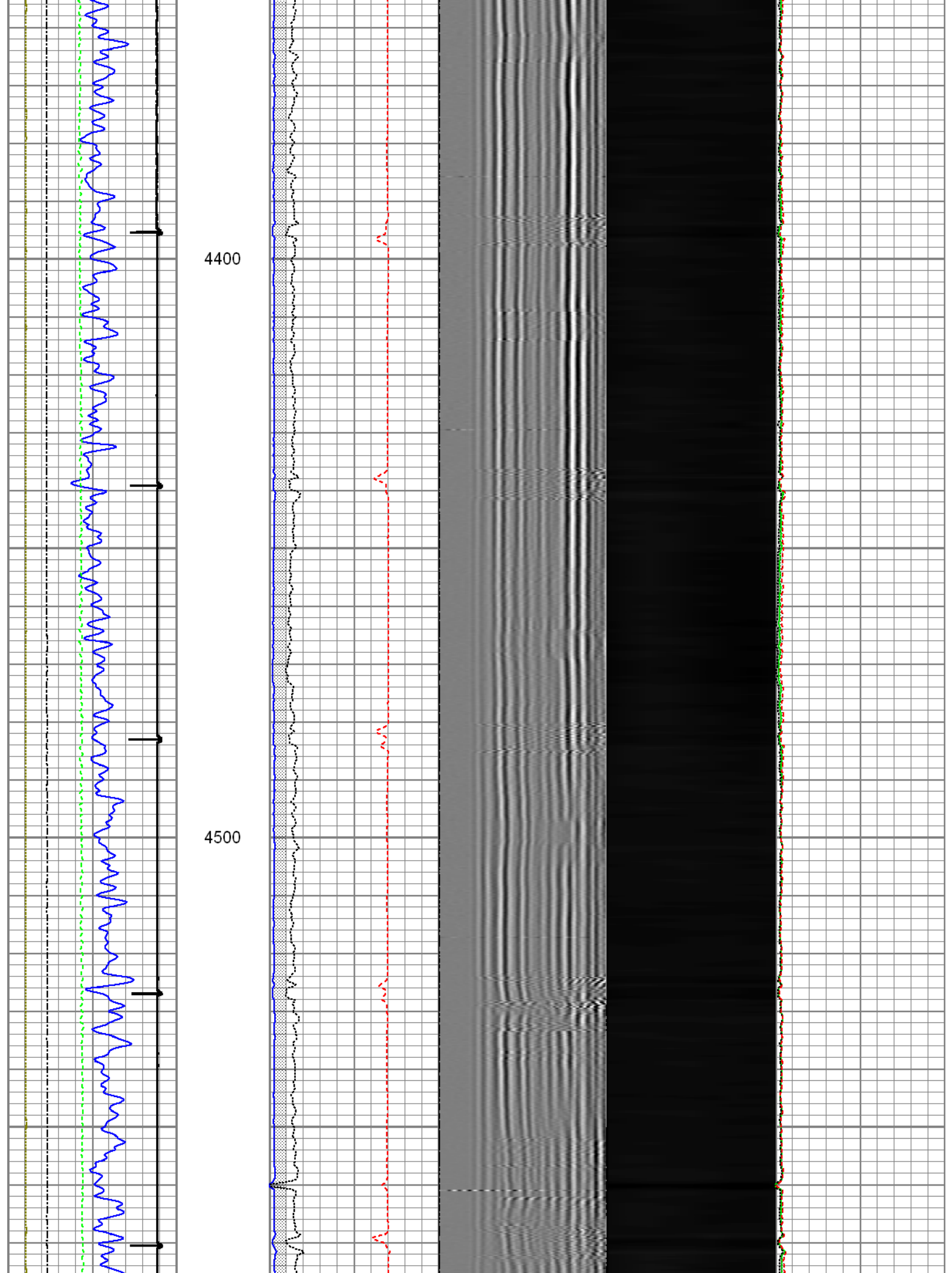
3800

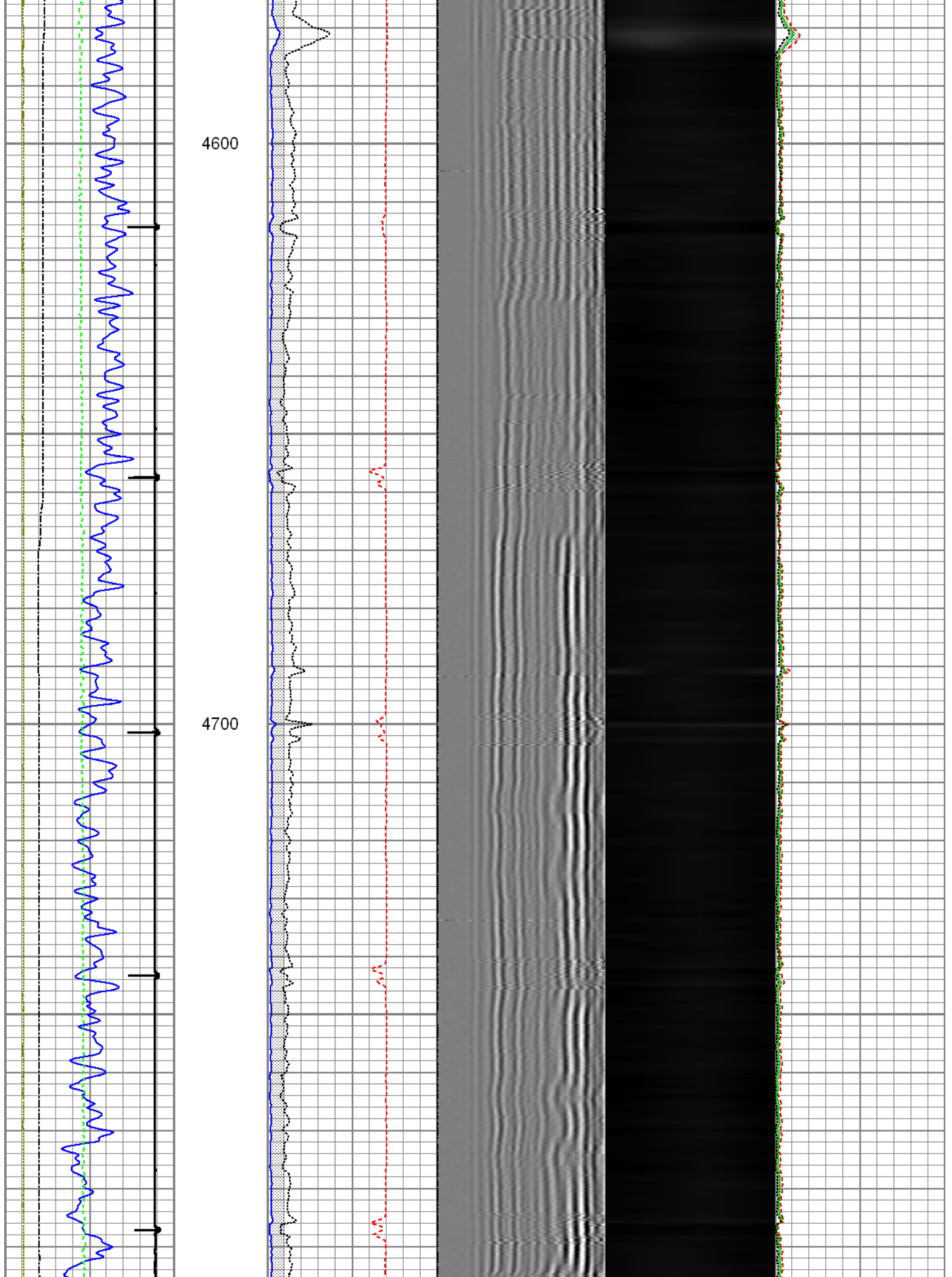
3900

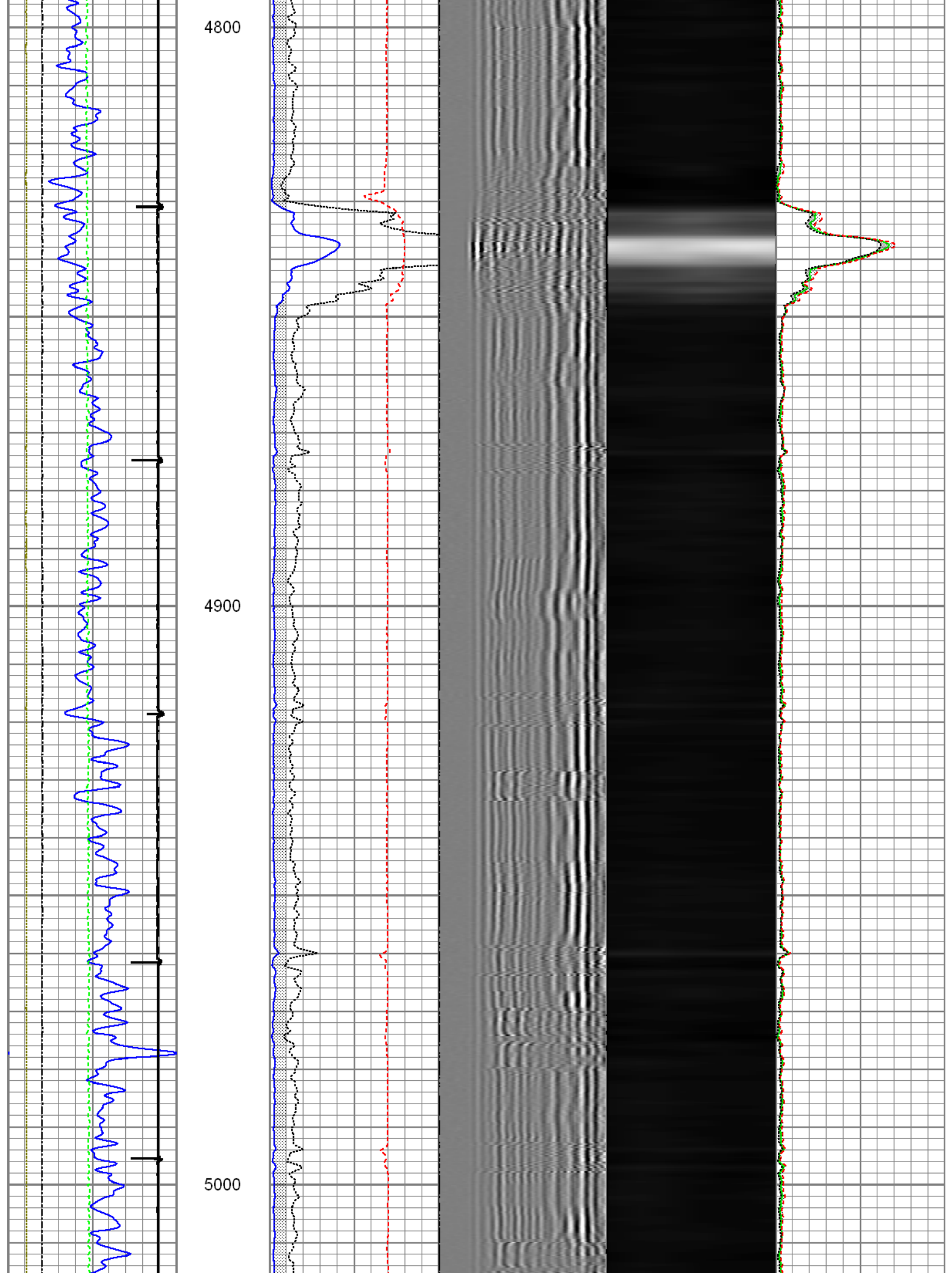






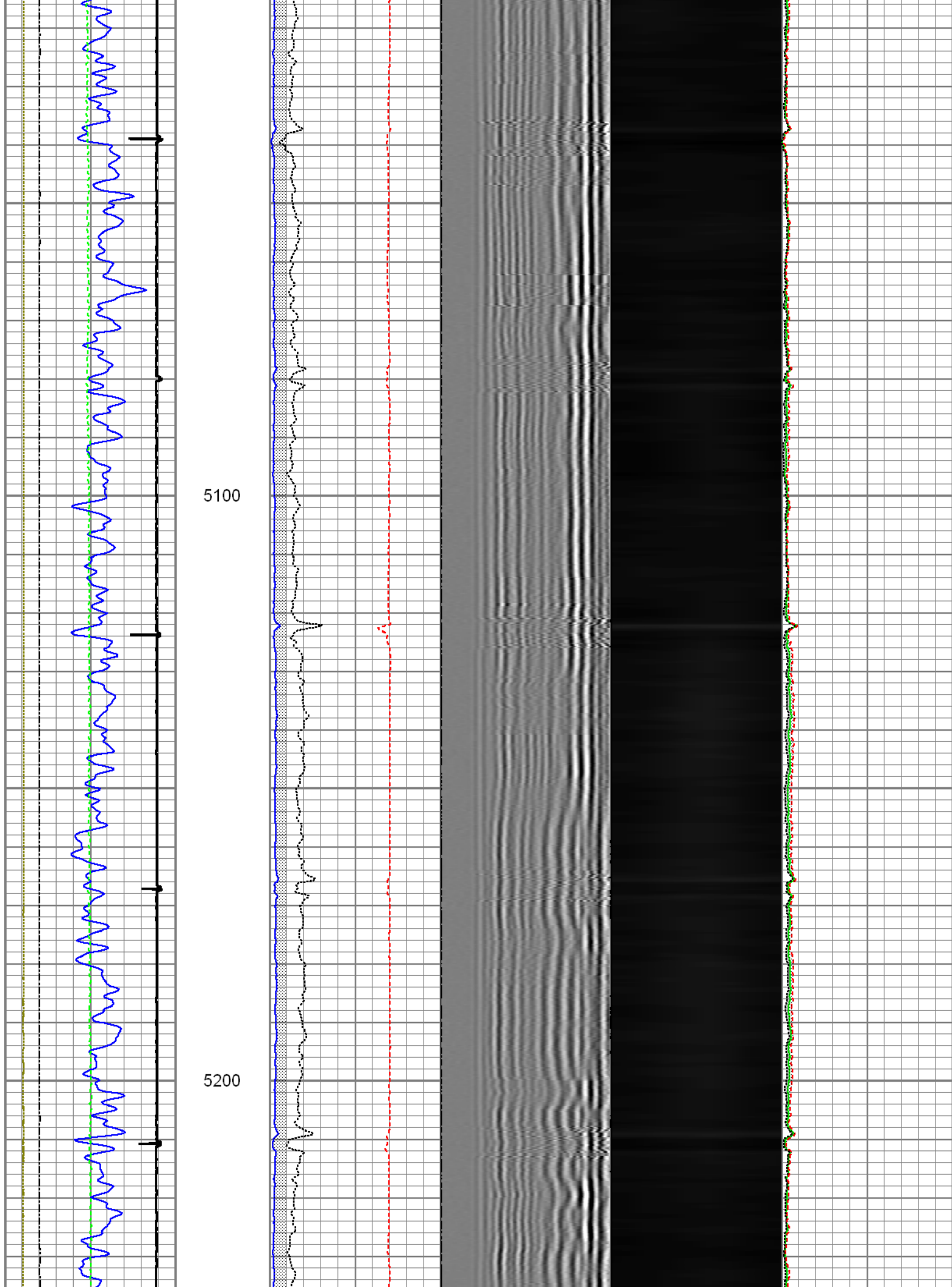


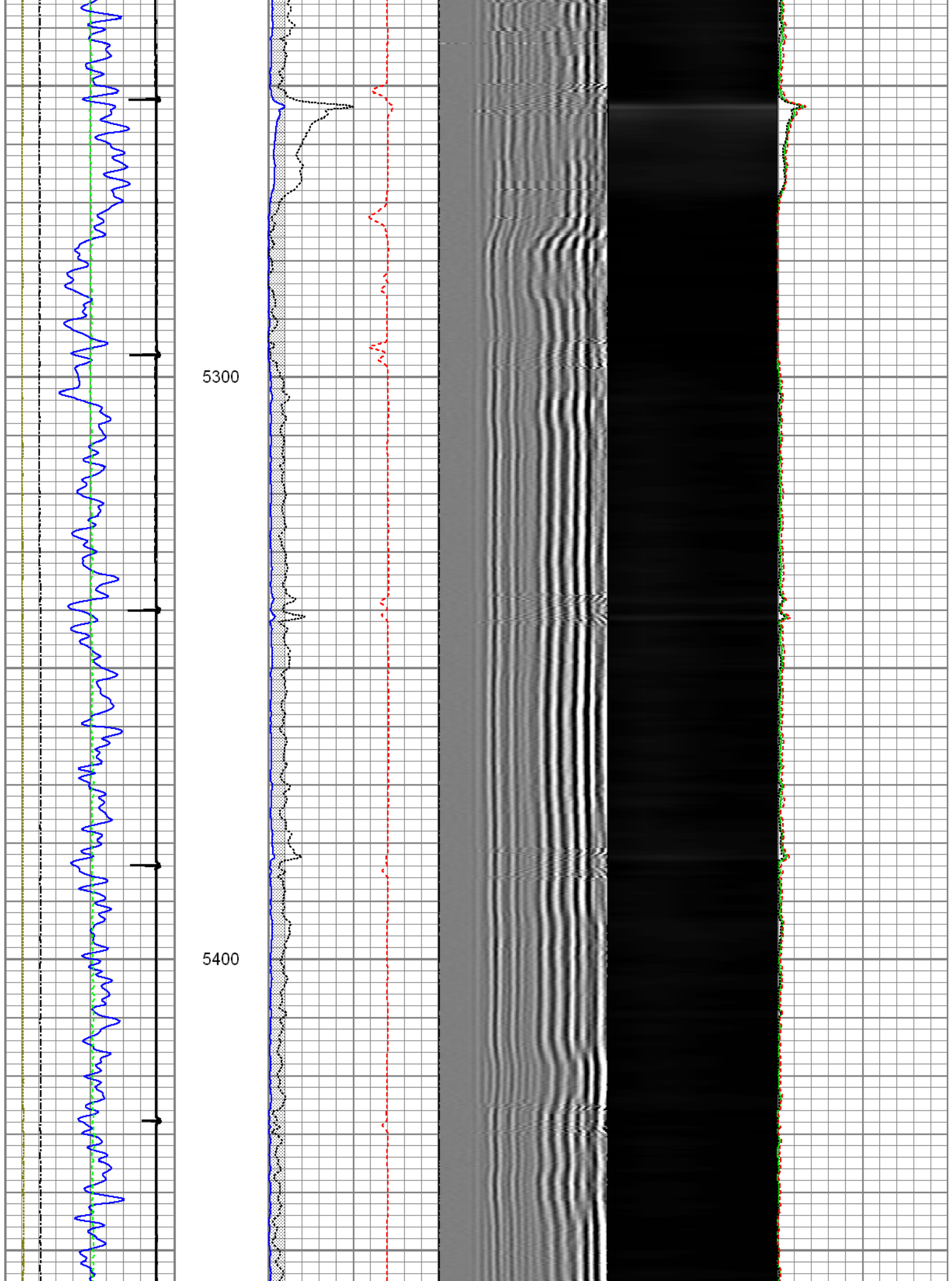


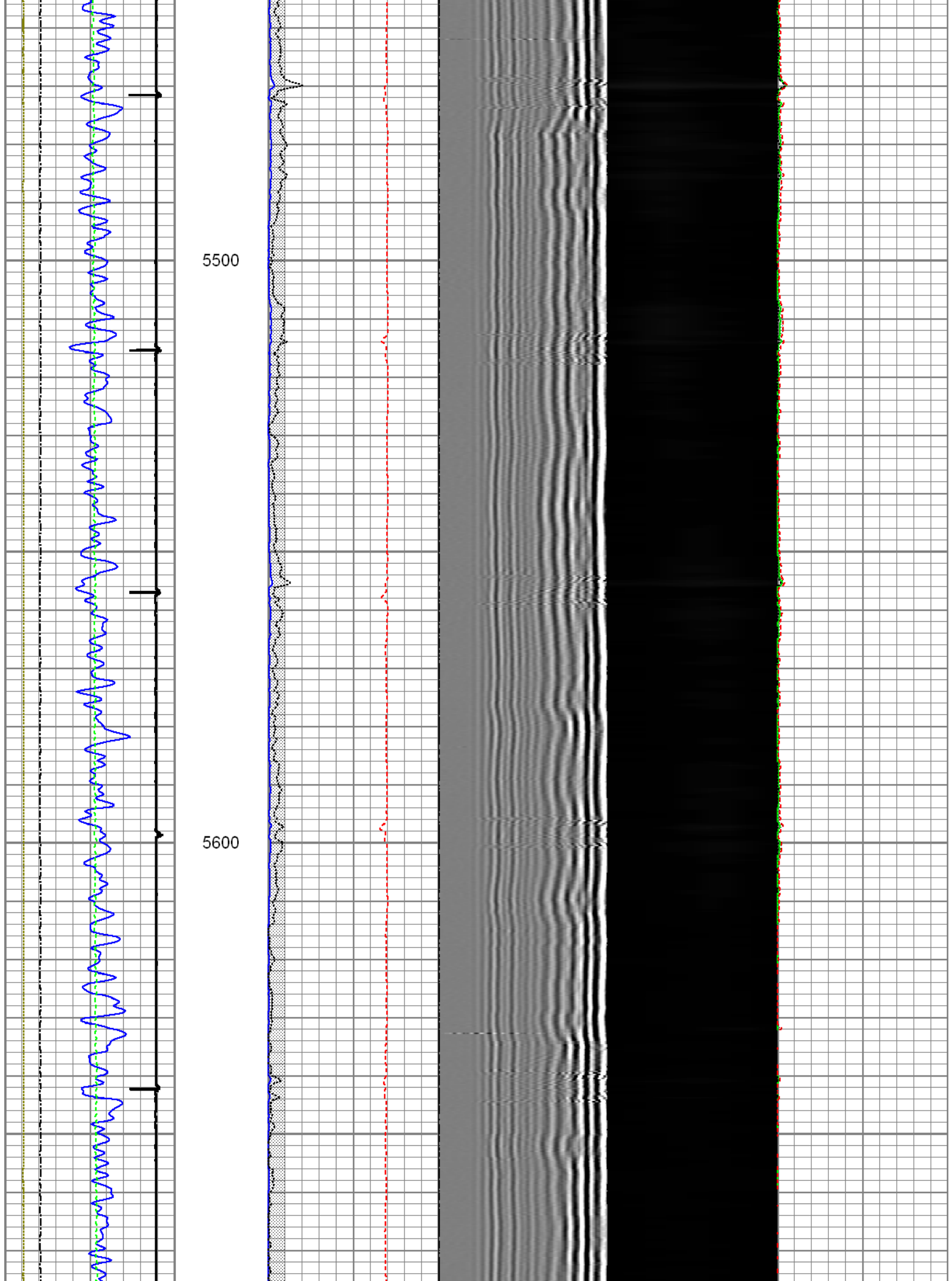


5100

5200

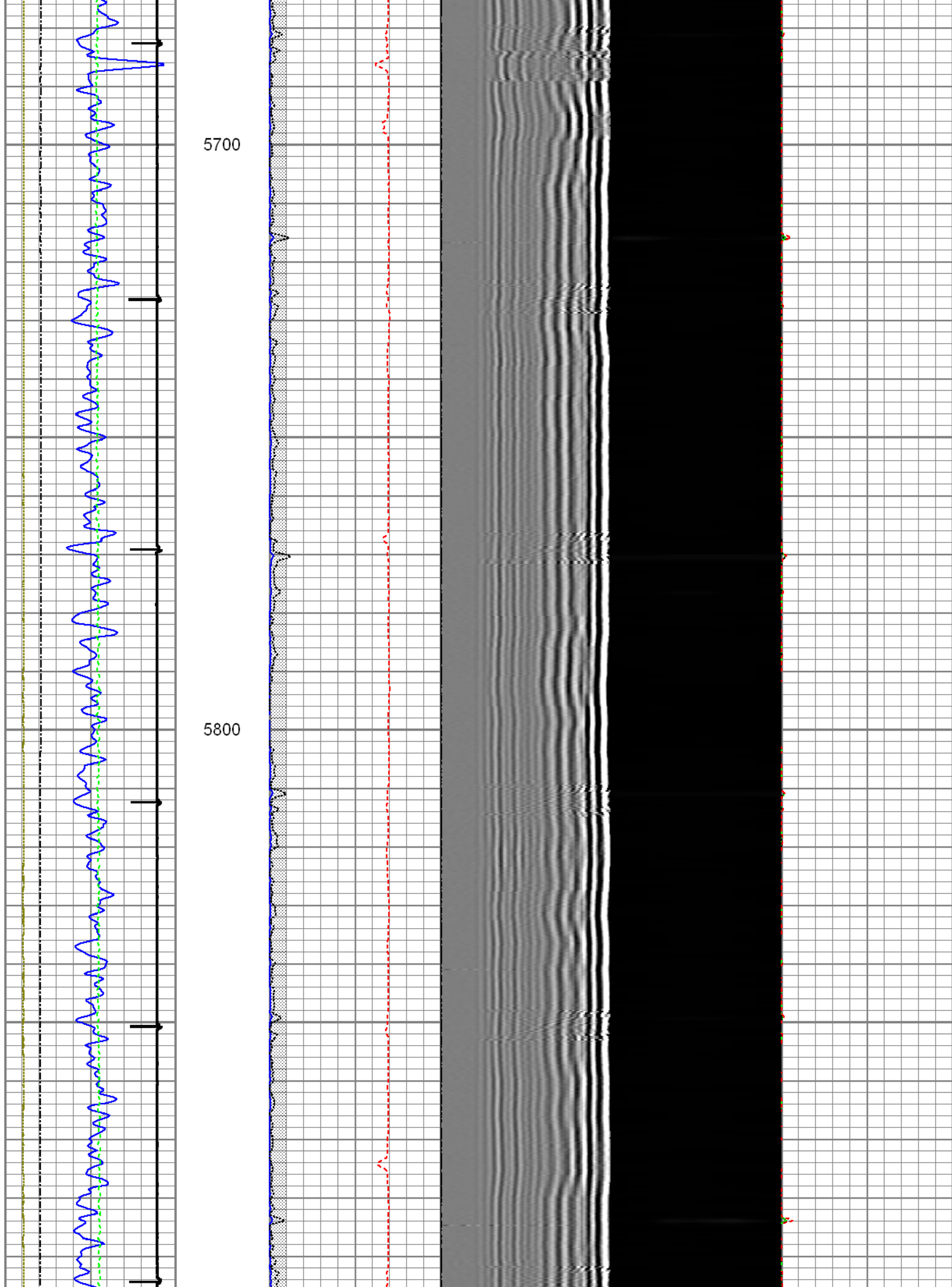






5700

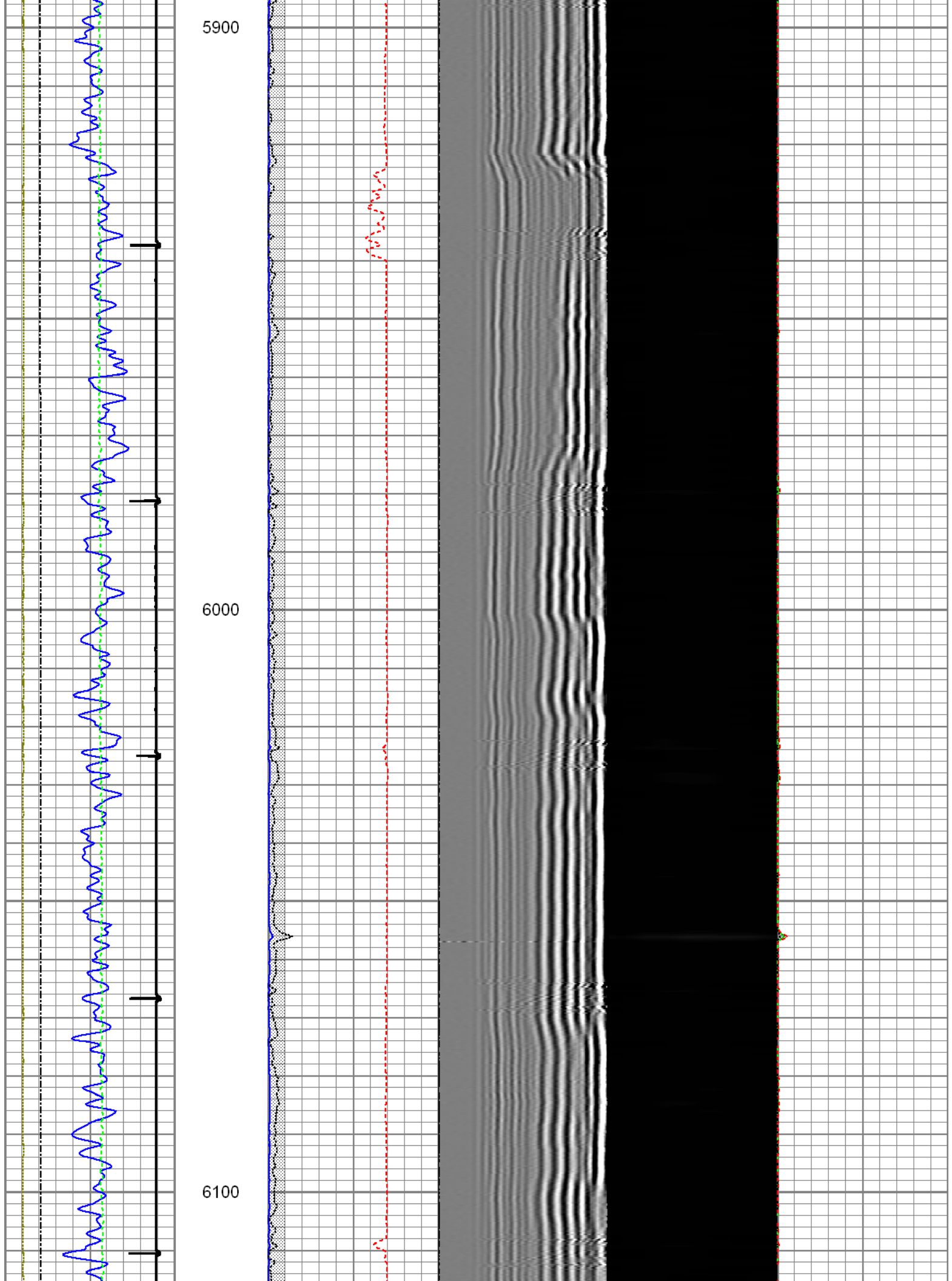
5800

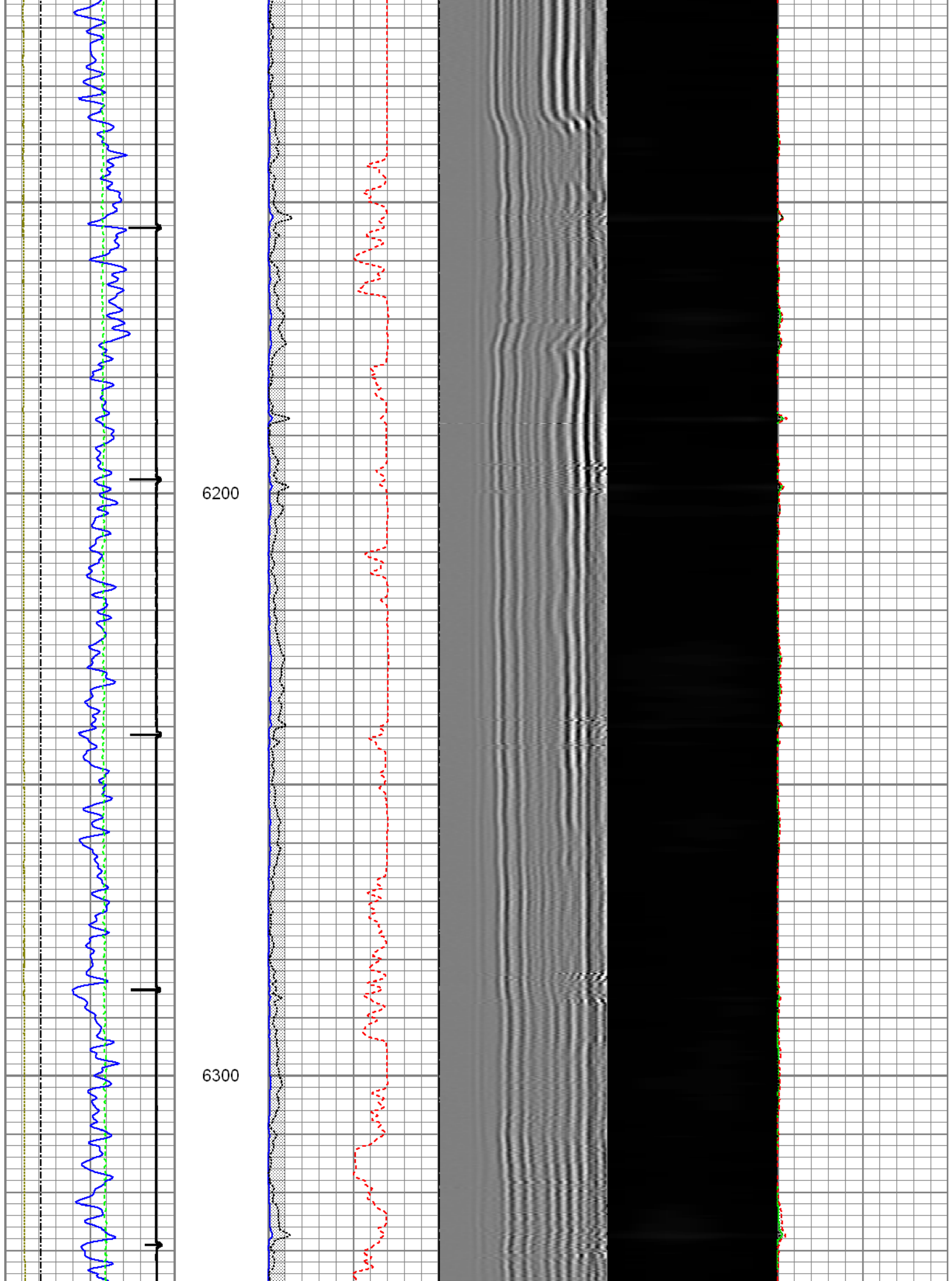


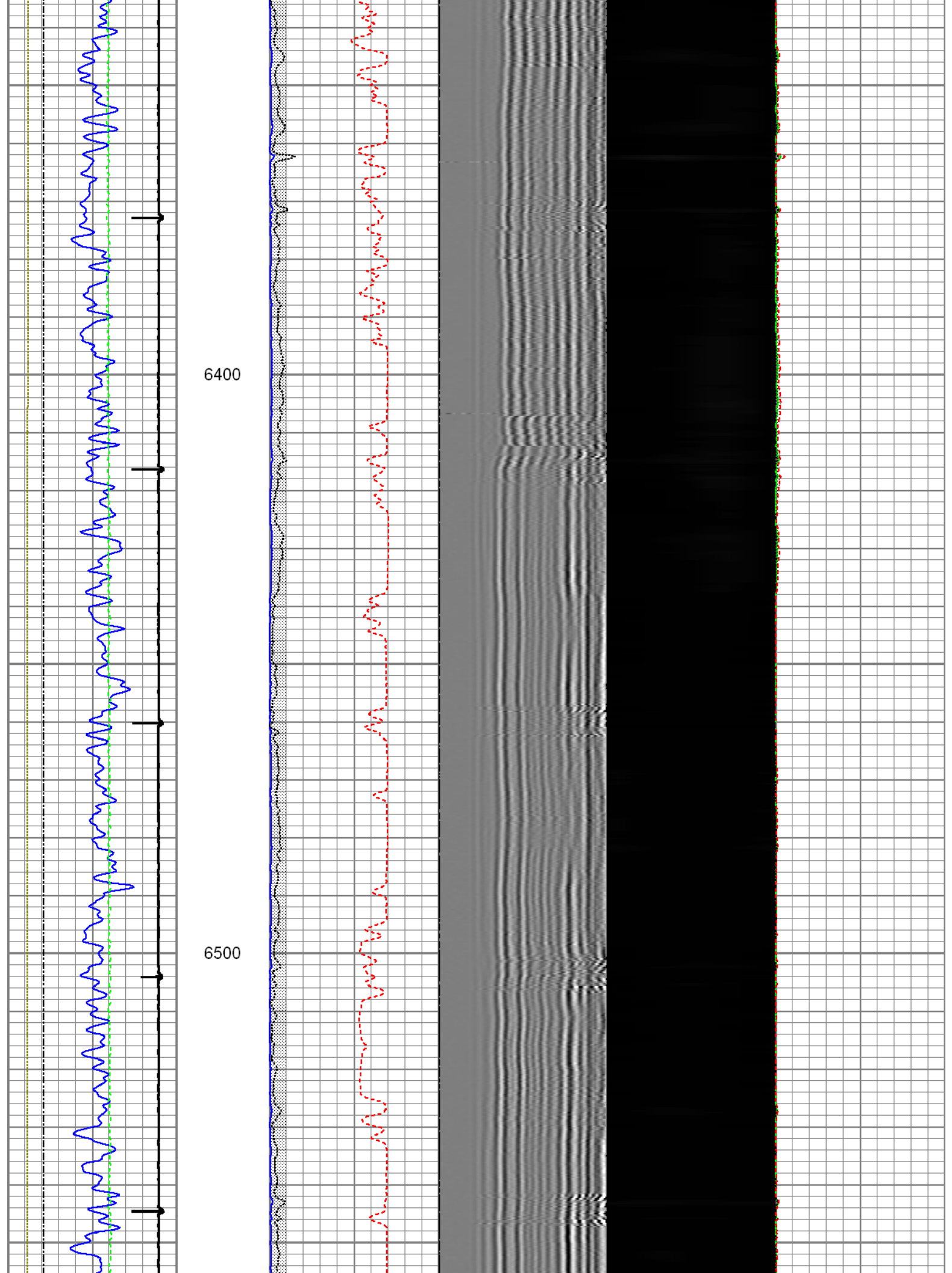
5900

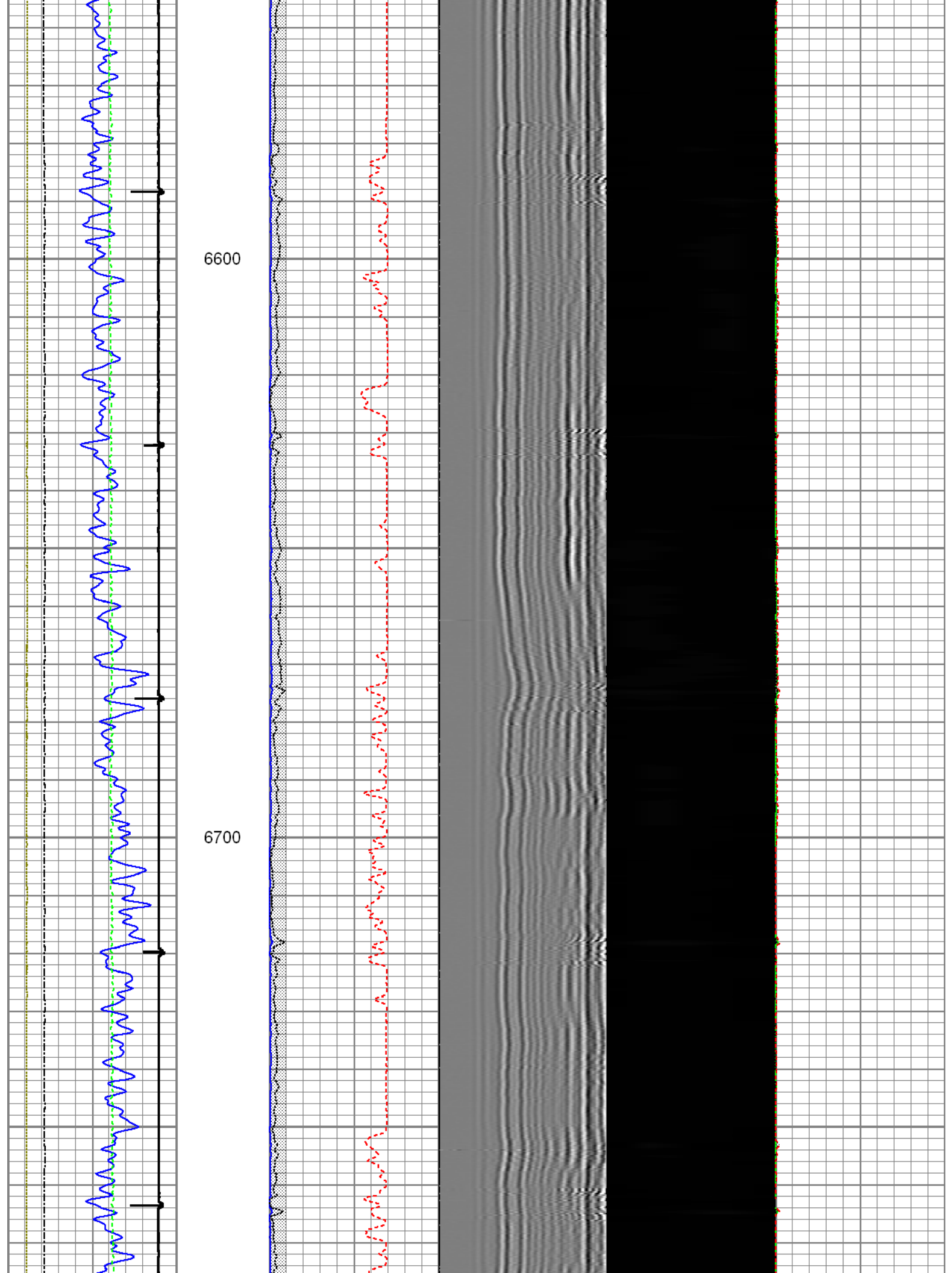
6000

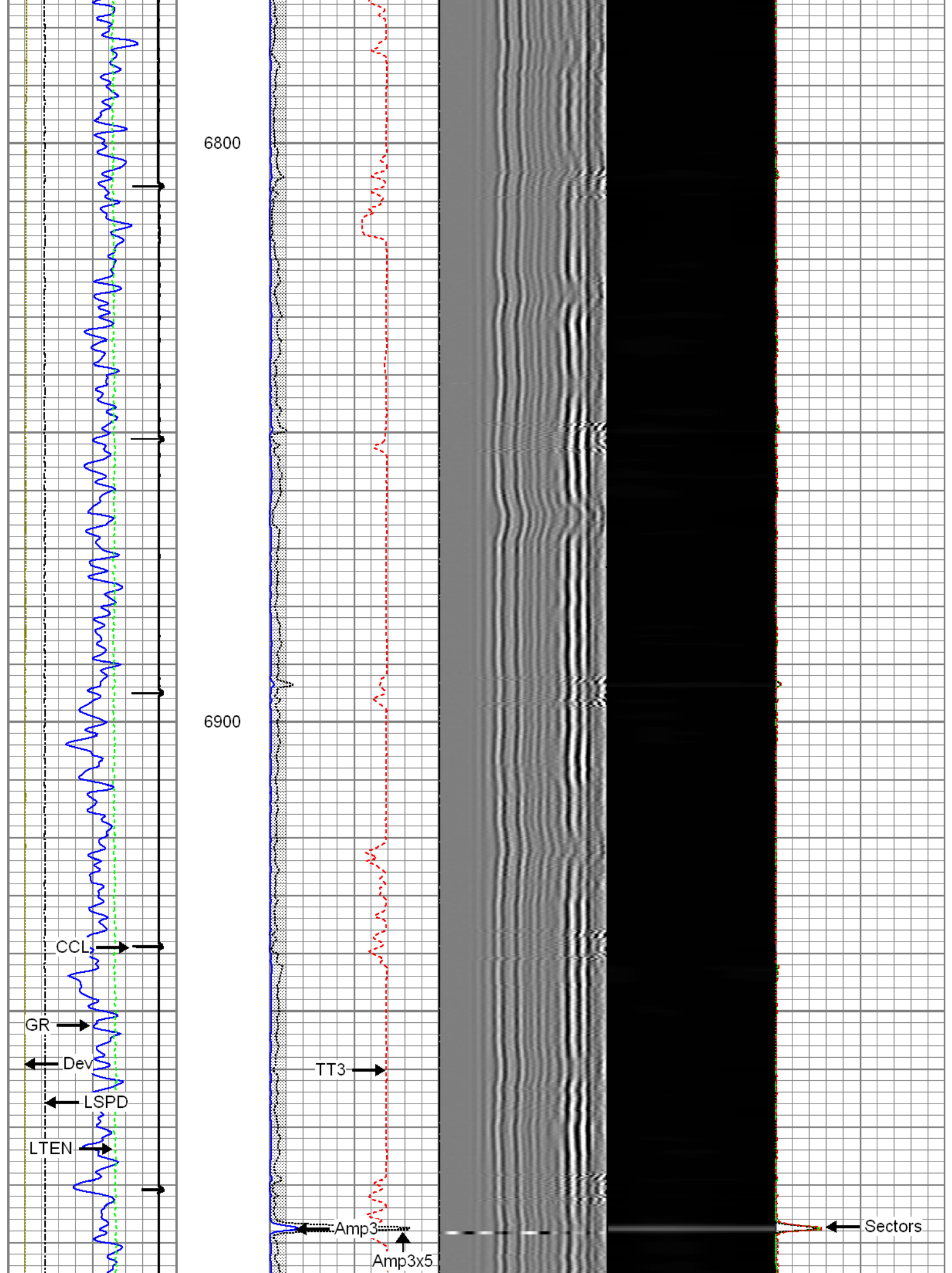
6100

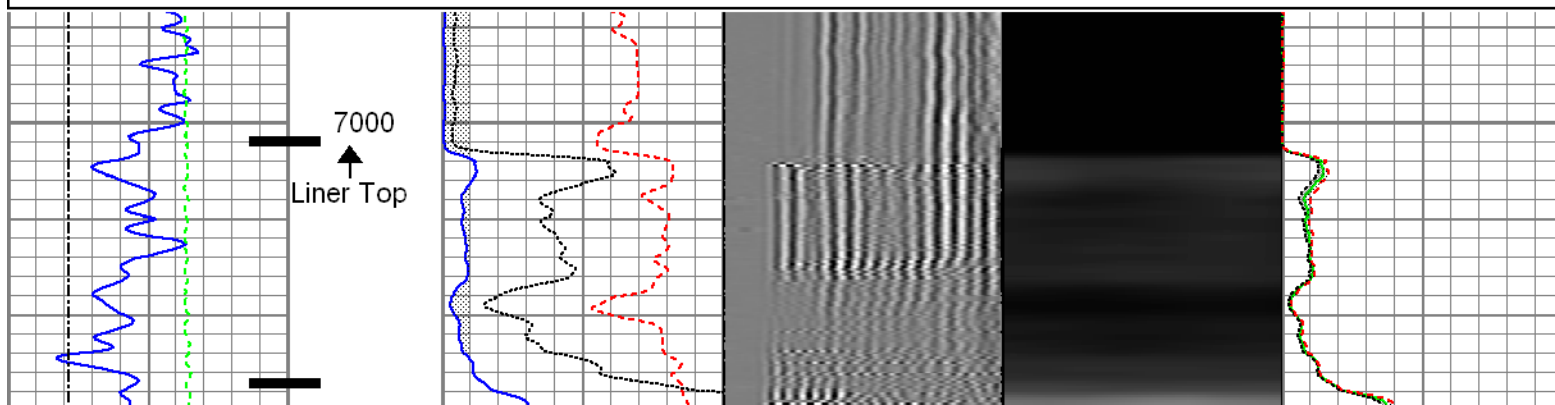
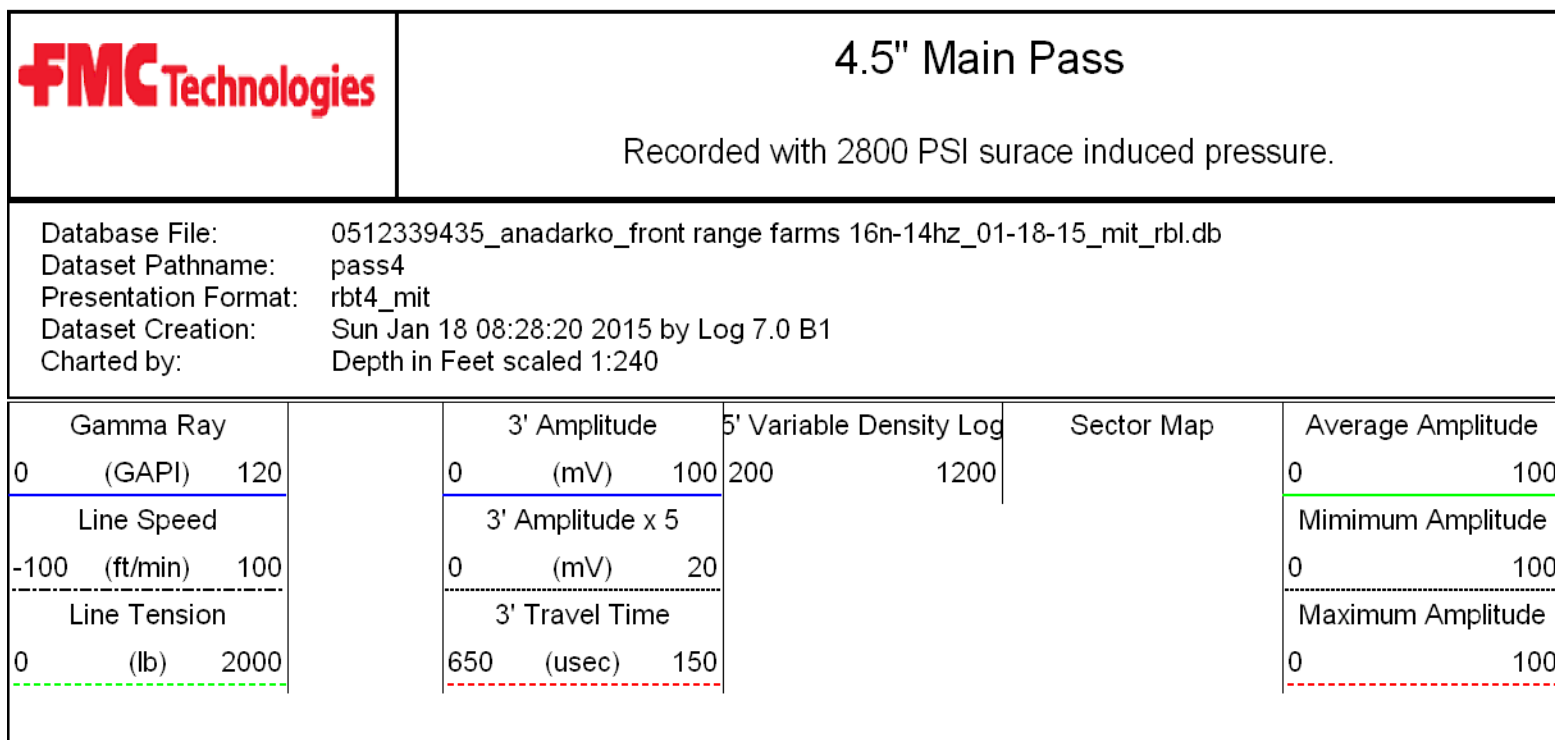
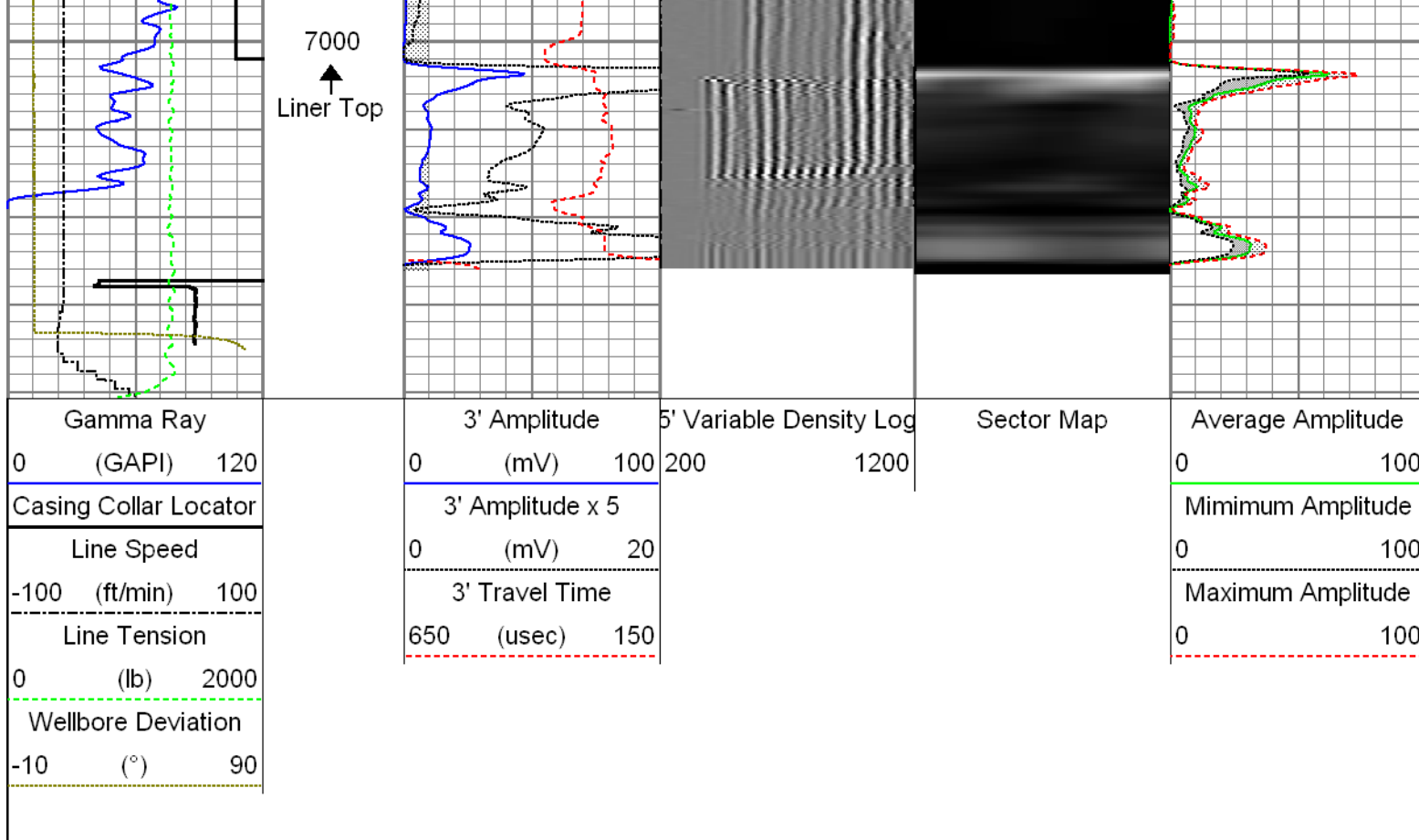


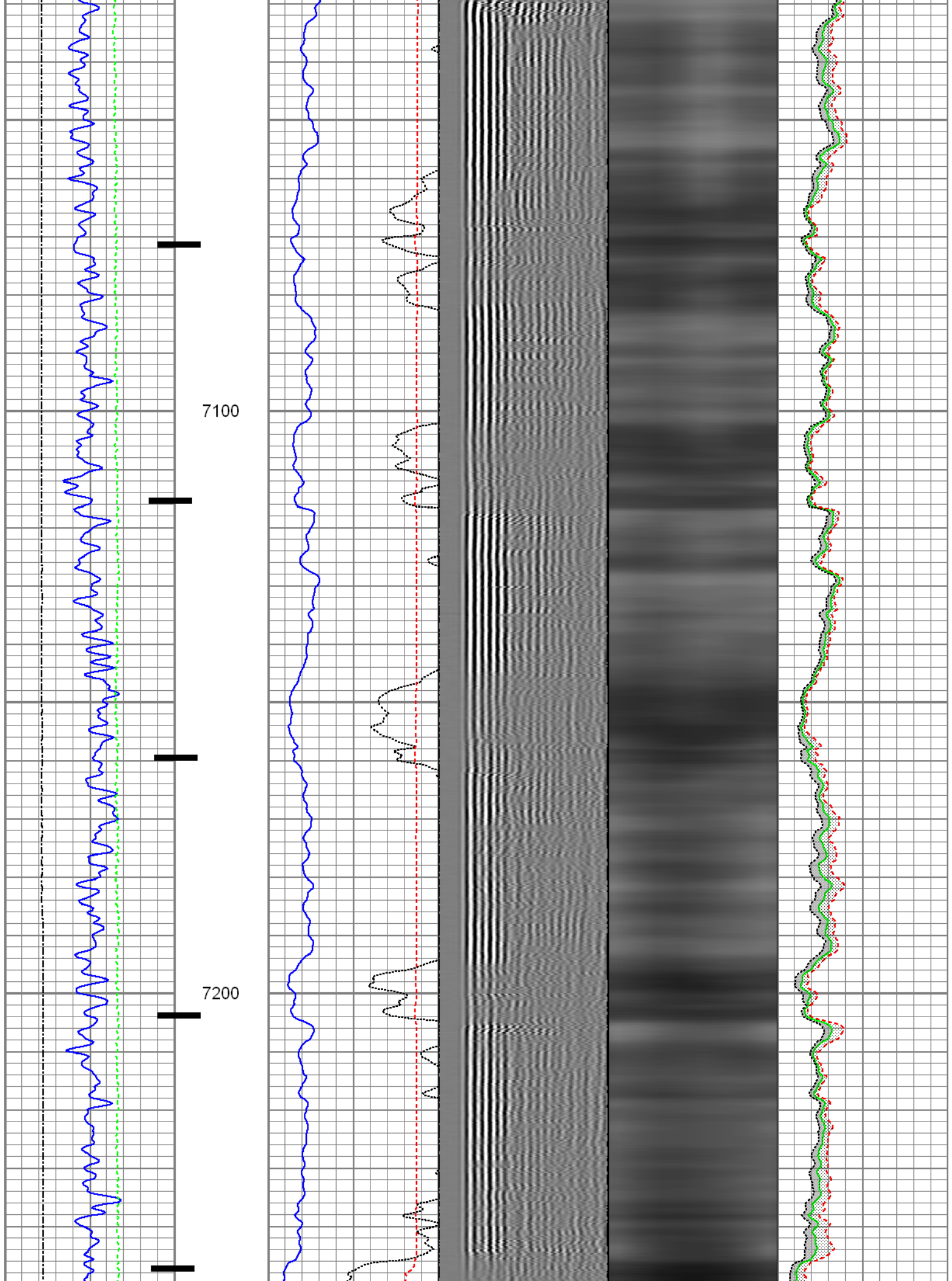


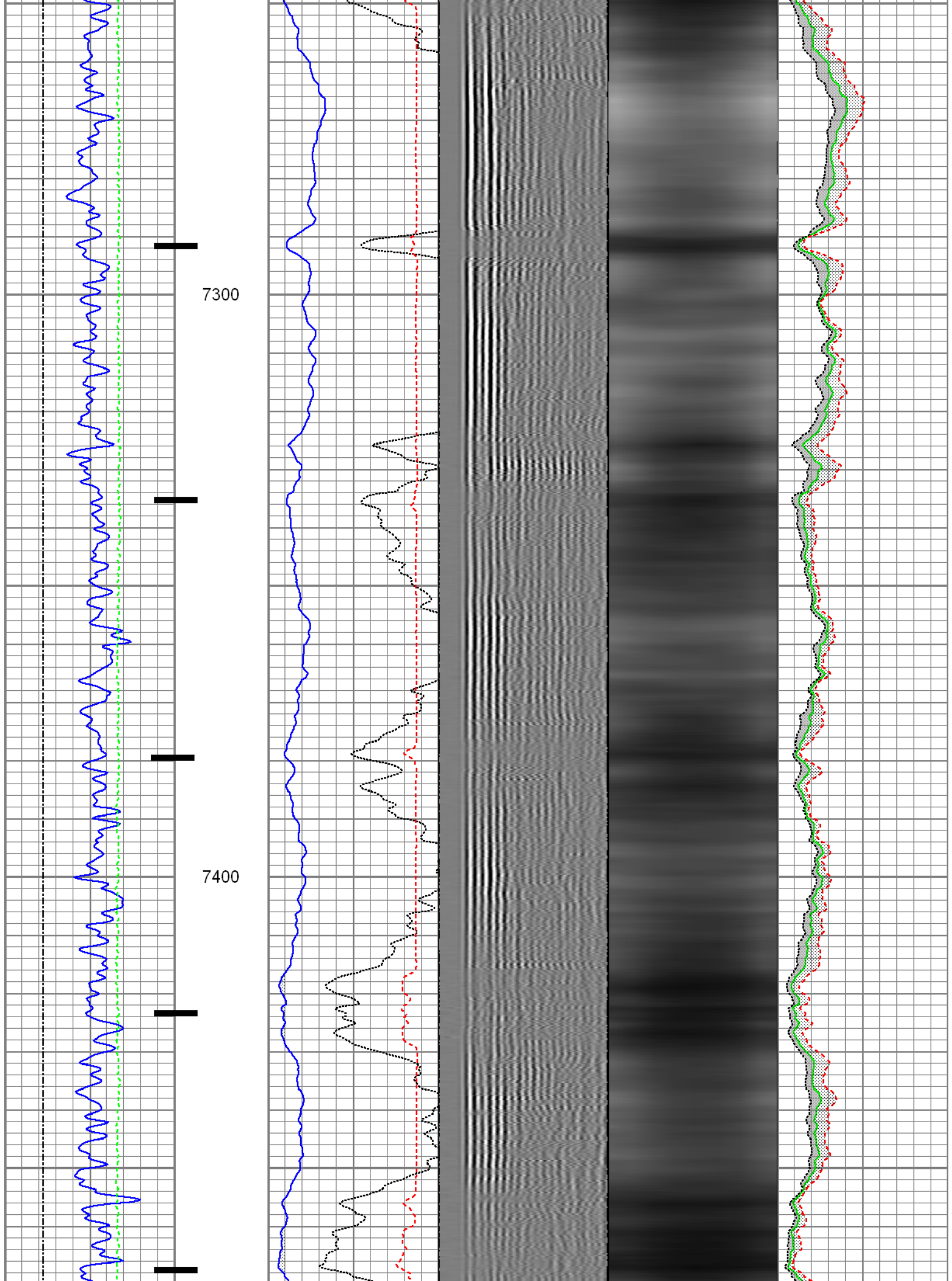


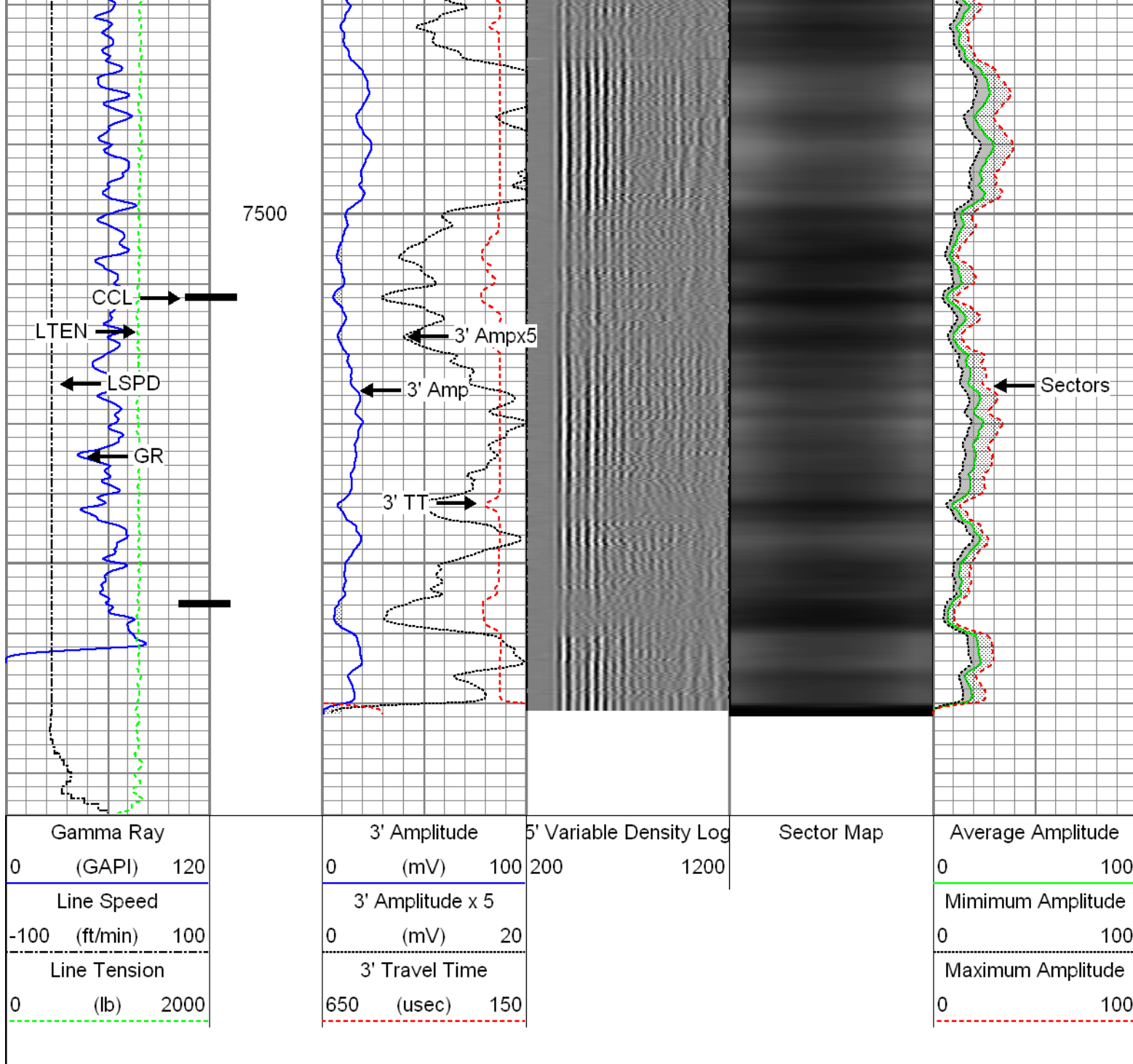






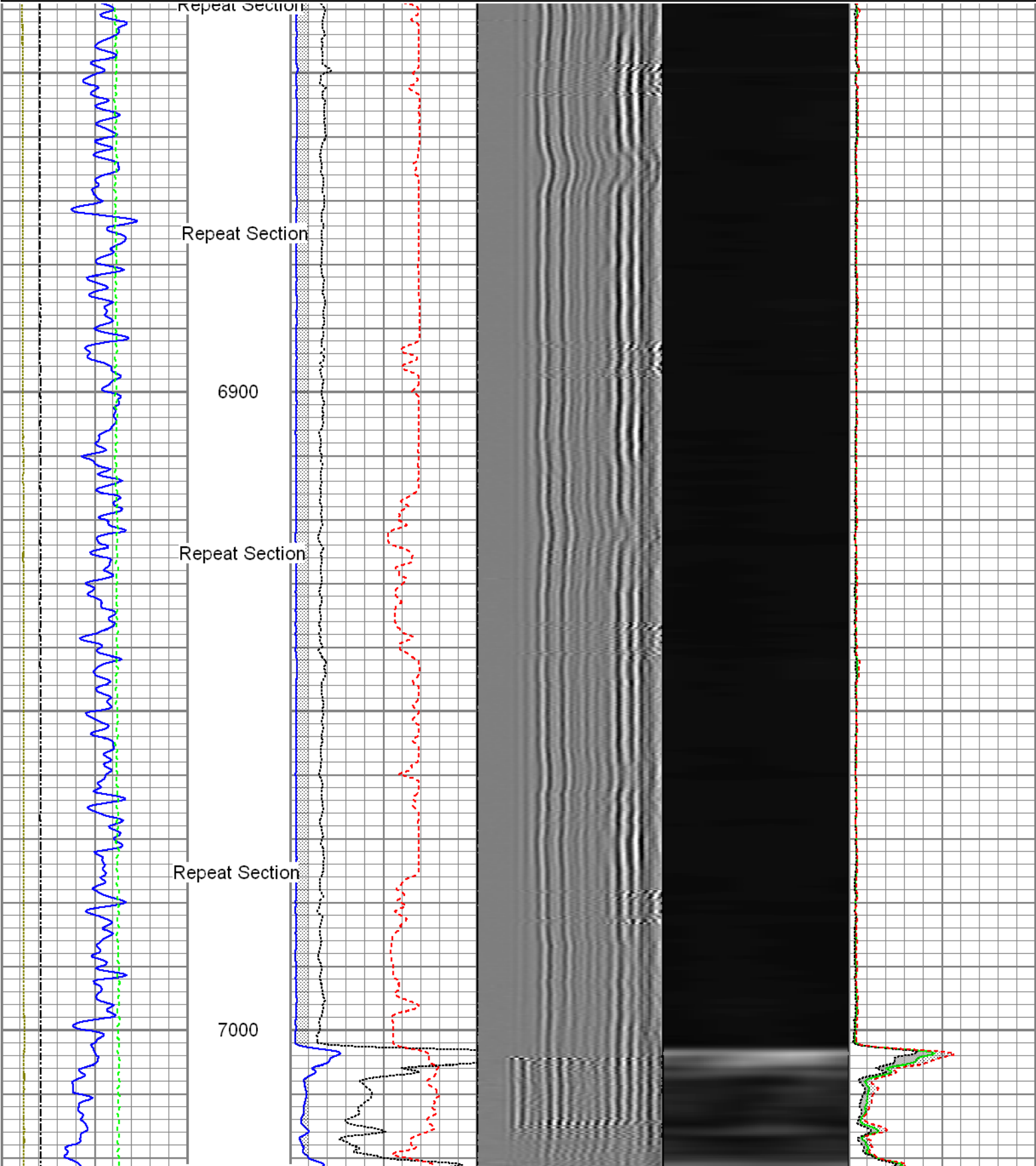






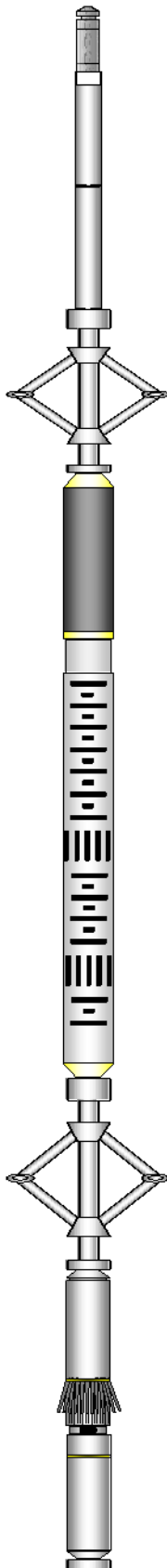
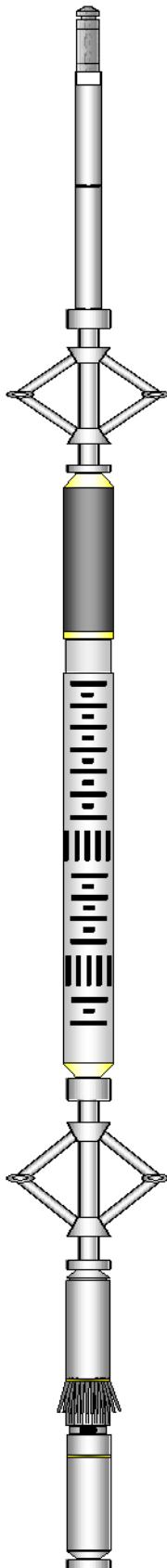
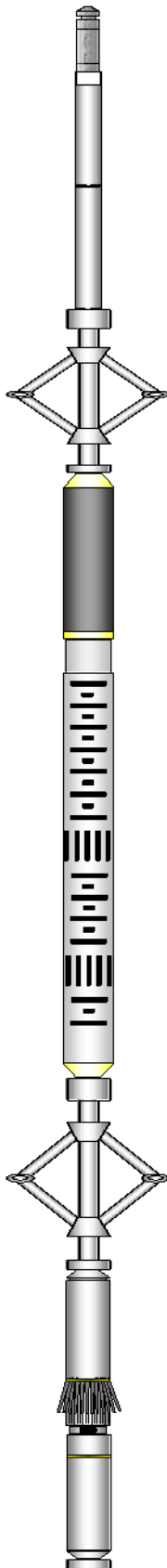
		<h1>Repeat Pass</h1> <p>Recorded with 2800 Psi surface induced pressure</p>			
Database File: 0512339435_anadarko_front range farms 16n-14hz_01-18-15_mit_rbl.db Dataset Pathname: pass2 Presentation Format: rbt4_mit Dataset Creation: Sun Jan 18 08:16:55 2015 by Log 7.0 B1 Charted by: Depth in Feet scaled 1:240					
Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log	Sector Map	Average Amplitude	
0 120	0 100	200 1200		0 100	
Line Speed (ft/min)	3' Amplitude x 5 (mV)			Minimum Amplitude	
-100 100	0 20			0 100	

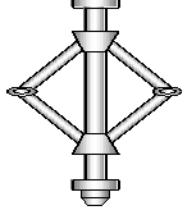
Line Tension			3' Travel Time			Maximum Amplitude		
0	(lb)	2000	650	(usec)	150	0		100
Wellbore Deviation								
-10	(°)	90						



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		

Line Speed	3' Amplitude x 3'	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
Wellbore Deviation		
-10 (°) 90		

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
WVFS3FT	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					
CBLROT	15.85					
WVFS5FT	14.85					
MIT	5.41		UW_PRC-UW_PRC_057 (1037) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
			UW_MIT-UW_MIT40_042 (10014703) 40 Multifinger Imaging Tool	4.54	2.75	61.10

TSTAMP	0.00		<div>UW_PRC #4 -UW_PRC_057 (1102) Sondex 2-3/4" 4-Arm Production Roller Centraliser</div> <div>UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator</div>	2.98	2.75	32.00
Dataset: 0512339435_Anadarko_Front Range Farms 16N-14HZ_01-18-15_MIT_RBL.db: field/well/run1/pass5 Total Length: 27.49 ft Total Weight: 319.30 lb O.D. 3.13 in						

Calibration Report	
Database File:	0512339435_anadarko_front range farms 16n-14hz_01-18-15_mit_rbl.db
Dataset Pathname:	pass5.1
Dataset Creation:	Mon Jan 19 08:08:50 2015 by Calc SCH 120430

Multi-finger Imaging Tool Calibration Report
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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:	1727	2173
Sensitivity ratio:	1.00706	
X-axis angle:	132.825	
Deviation const.:	317.775	

Finger Calibration Report							
Performed:				Sun Jan 18 07:43:44 2015			
Ring size:	4	5	6	7			
(in)							
	Sens	Sens	Sens				
Finger 01:	1066	372.0	1438	400.0	1838	399.0	2237
Finger 02:	1024	378.0	1402	417.0	1819	422.0	2241
Finger 03:	1024	366.0	1390	403.0	1793	418.0	2211
Finger 04:	994	378.0	1372	424.0	1796	439.0	2235
Finger 05:	1000	359.0	1359	395.0	1754	408.0	2162
Finger 06:	1012	370.0	1382	414.0	1796	425.0	2221
Finger 07:	1023	370.0	1393	405.0	1798	419.0	2217
Finger 08:	989	370.0	1359	412.0	1771	436.0	2207
Finger 09:	1067	376.0	1443	399.0	1842	408.0	2250
Finger 10:	1054	378.0	1432	403.0	1835	419.0	2254
Finger 11:	1005	372.0	1377	397.0	1774	427.0	2201
Finger 12:	1109	373.0	1482	378.0	1860	390.0	2250
Finger 13:	1056	369.0	1425	395.0	1820	422.0	2242
Finger 14:	1027	385.0	1412	408.0	1820	437.0	2257
Finger 15:	1002	383.0	1385	403.0	1788	437.0	2225
Finger 16:	1036	378.0	1414	397.0	1811	426.0	2237
Finger 17:	1090	371.0	1461	381.0	1842	402.0	2244
Finger 18:	1133	378.0	1511	382.0	1893	407.0	2300
Finger 19:	1078	384.0	1462	390.0	1852	418.0	2270
Finger 20:	1012	380.0	1392	396.0	1788	427.0	2215
Finger 21:	1071	373.0	1444	380.0	1824	410.0	2234
Finger 22:	1061	380.0	1441	386.0	1827	414.0	2241

Finger 23:	1117	385.0	1502	384.0	1886	409.0	2295
Finger 24:	1084	352.0	1436	355.0	1791	380.0	2171
Finger 25:	1099	394.0	1493	392.0	1885	409.0	2294
Finger 26:	1050	371.0	1421	382.0	1803	405.0	2208
Finger 27:	1223	399.0	1622	391.0	2013	401.0	2414
Finger 28:	1094	368.0	1462	374.0	1836	398.0	2234
Finger 29:	1035	375.0	1410	391.0	1801	412.0	2213
Finger 30:	1004	372.0	1376	393.0	1769	416.0	2185
Finger 31:	1224	402.0	1626	407.0	2033	419.0	2452
Finger 32:	1010	371.0	1381	388.0	1769	396.0	2165
Finger 33:	1191	413.0	1604	425.0	2029	421.0	2450
Finger 34:	974	369.0	1343	398.0	1741	406.0	2147
Finger 35:	1123	395.0	1518	417.0	1935	419.0	2354
Finger 36:	1030	358.0	1388	381.0	1769	387.0	2156
Finger 37:	1114	394.0	1508	414.0	1922	418.0	2340
Finger 38:	1078	368.0	1446	390.0	1836	395.0	2231
Finger 39:	1049	354.0	1403	383.0	1786	383.0	2169
Finger 40:	969	381.0	1350	428.0	1778	438.0	2216

Segmented Cement Bond Log Calibration Report

Serial Number: 1063
Tool Model: UW_RBT_004

Calibration Casing Diameter: 7.000 in
Calibration Depth: 10.200 ft

Master Calibration, performed Mon Jan 19 08:08:40 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.037	0.656	0.800	62.165	99.111	-2.878
5FT	0.002	0.646	0.800	62.165	95.310	0.606
S1	0.033	0.655	0.000	100.000	160.664	-5.299
S2	0.035	0.656	0.000	100.000	161.073	-5.656
S3	0.038	0.648	0.000	100.000	164.043	-6.276
S4	0.042	0.662	0.000	100.000	161.283	-6.708
S5	0.041	0.661	0.000	100.000	161.312	-6.669
S6	0.037	0.655	0.000	100.000	161.980	-6.064
S7	0.035	0.658	0.000	100.000	160.505	-5.659
S8	0.033	0.654	0.000	100.000	161.204	-5.380

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 16N-14HZ
Field Wattenberg
County Weld

	State	Colorado
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