

Company		Kerr-McGee Oil & Gas Onshore, L.P.	
Well		Taipan 27C-15HZ	
Field		Wattenberg	
County		Weld	
State		Colorado	
Location:		API #: 05-123-40605	
Well		Taipan 27C-15HZ	
Field		Wattenberg	
County		Weld	
State		Colorado	
SEC 22 TWP 2N RGE 67W		Other Services Gauge ring MIT	
Permanent Datum		Ground Level	
Log Measured From		Kelly Bushing	
Drilling Measured From		Kelly Bushing	
Elevation		4998'	
K.B. 5014'		D.F. 5013'	
G.L. 4998'			
Date	30-March-2015		
Run Number	Two		
Depth Driller	13.627		
Depth Logger	7804'		
Bottom Logged Interval	7804'		
Top Log Interval	Surface		
Open Hole Size	8.750"		
Type Fluid	Water		
Density / Viscosity	8.34 lbm/gal		
Max. Recorded Temp.	229°F		
Estimated Cement Top	Surface		
Time Well Ready	ROA		
Time Logger on Bottom	11:04 AM		
Equipment Number	HD-0119		
Location	Fl. Lupton, CO		
Recorded By	J. Amidel		
Witnessed By	Josh Gustafson		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
			From
			To
Casing Record	Size (in)	Wgt (lbs/ft)	Grade
Surface Casing	9-5/8	36	J-55
Intermediate #1	7	26	HCP-110
Intermediate #2			Surface
Liner	4-1/2	11.6	P-110
			6661'
			13623'

<<< 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.

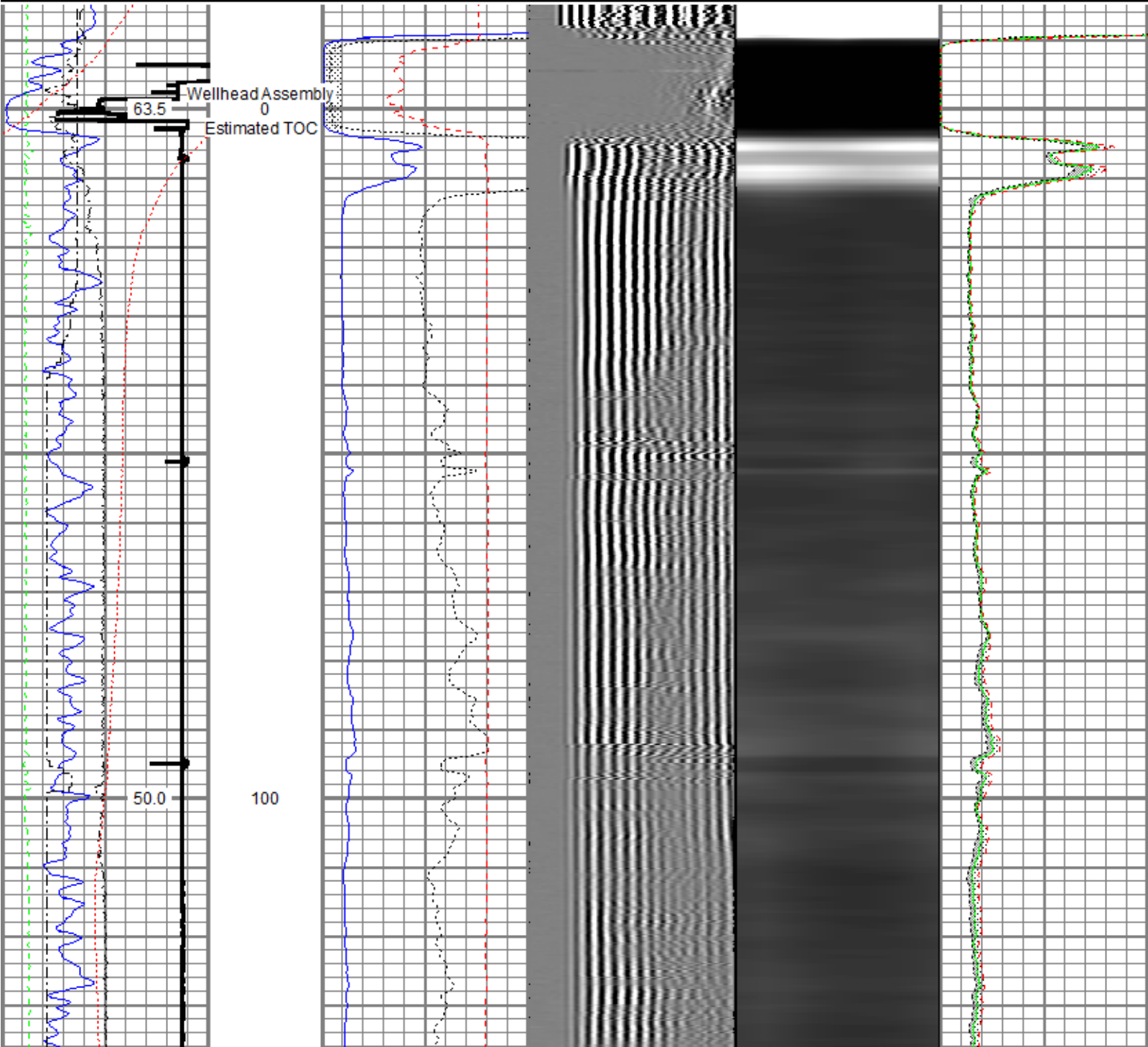
Comments

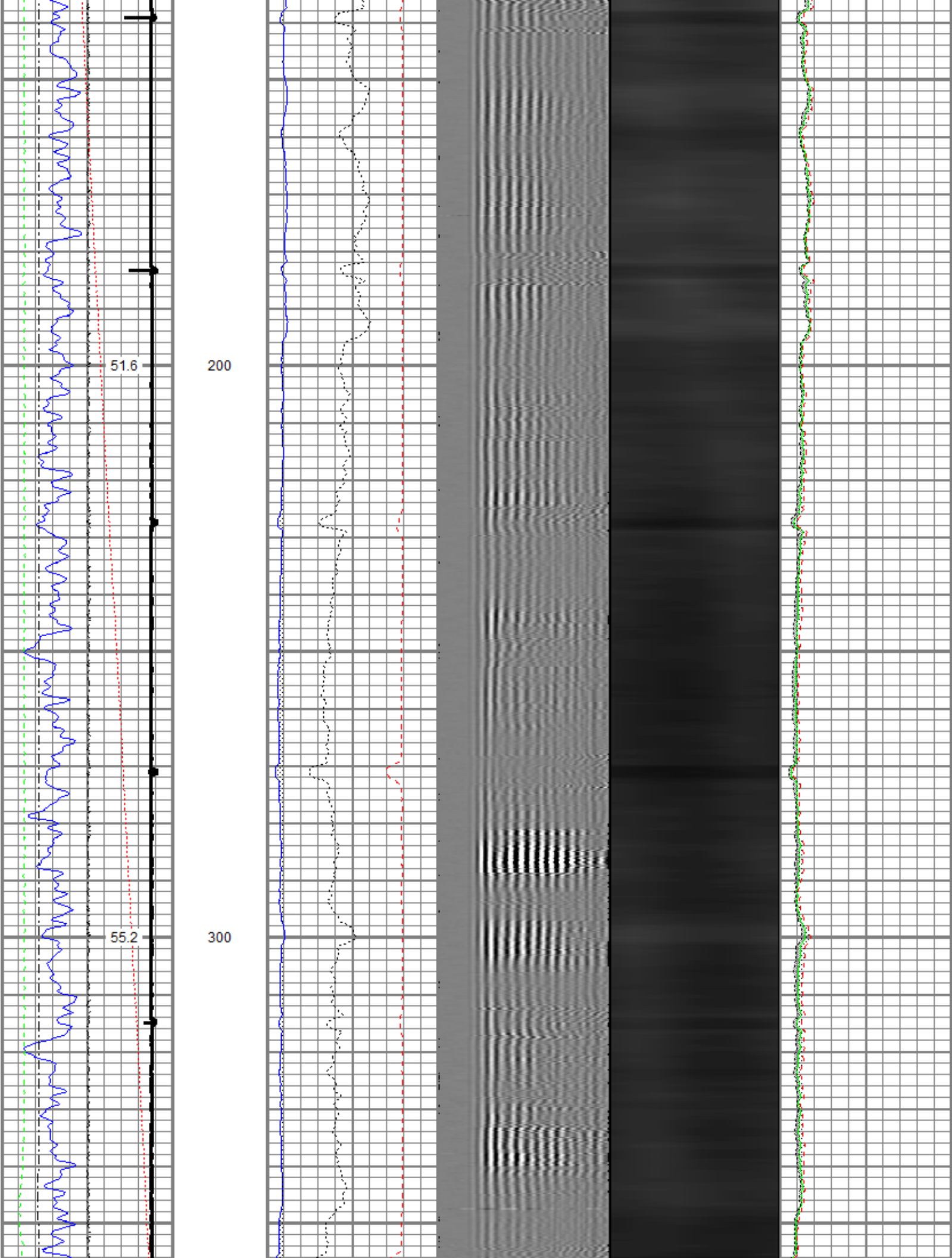
Log ran as per customer request.
Depth reference to Casing Tally reported Liner Top at 7703 FT.
Adjusted -18 FT to correlate to liner top.
Gauge Ring/Junk Basket ran to 7700.
Log ran from as deep as possible in heel to surface
Log ran with 2800 PSI surface induced pressure.
Logging tools were clean and free of debris upon completion of operations.

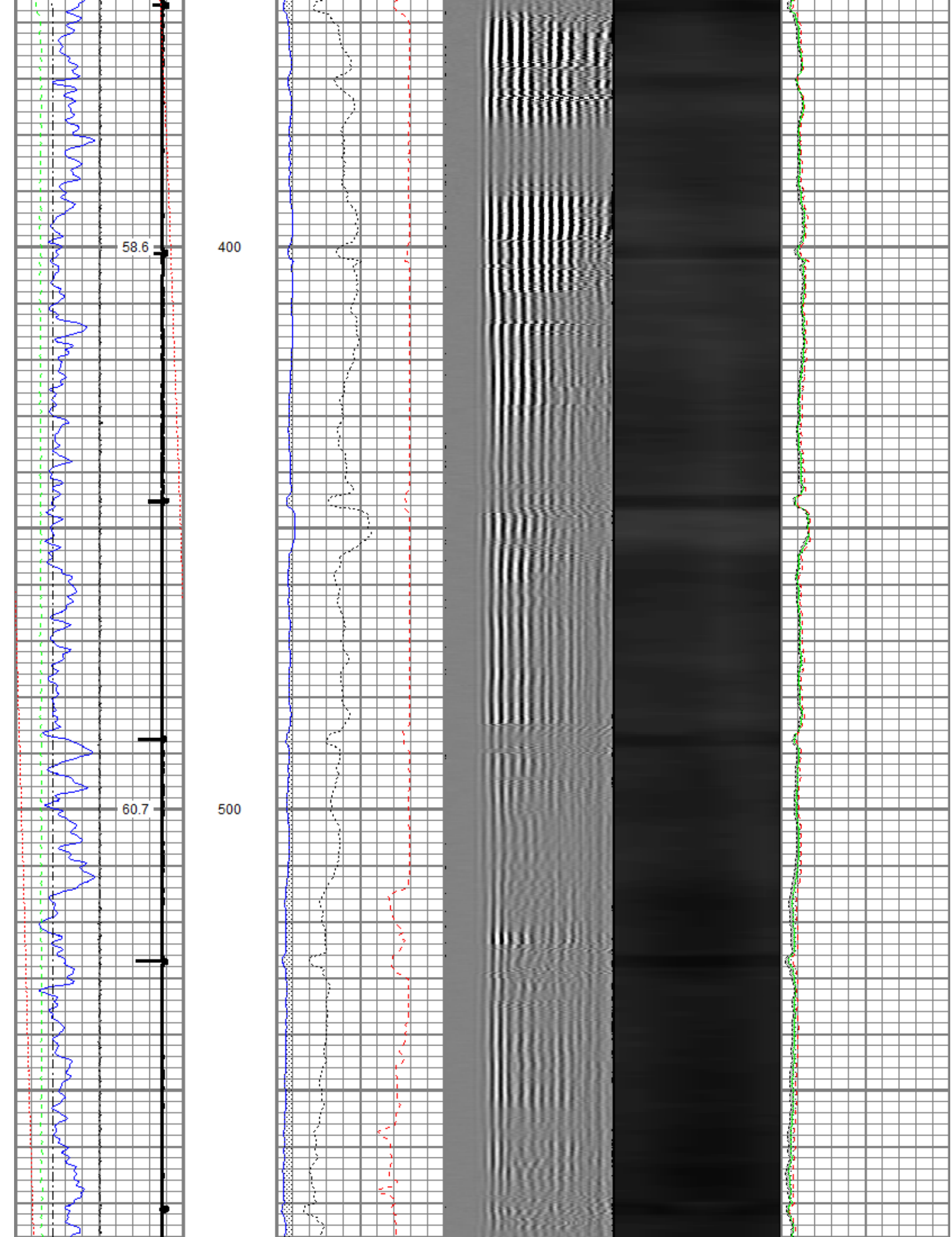
Thank you for choosing FMC Technologies Completion Services, Inc.!!

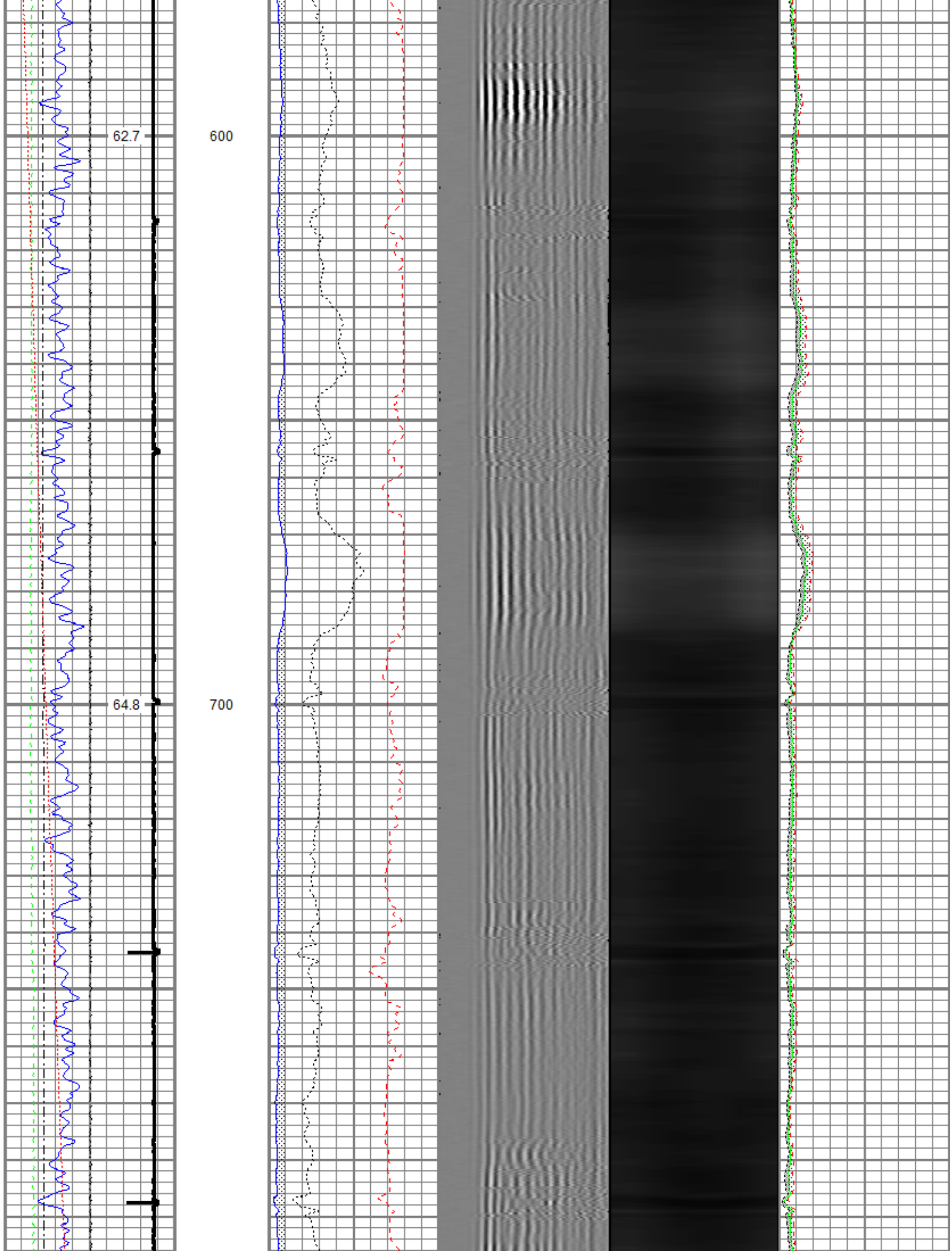
Database File:	anadarko_taipan27c-15hz_rbl-mit_30-mar-2015.db
Dataset Pathname:	pass9
Presentation Format:	rbl4_mit
Dataset Creation:	Mon Mar 30 11:13:04 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

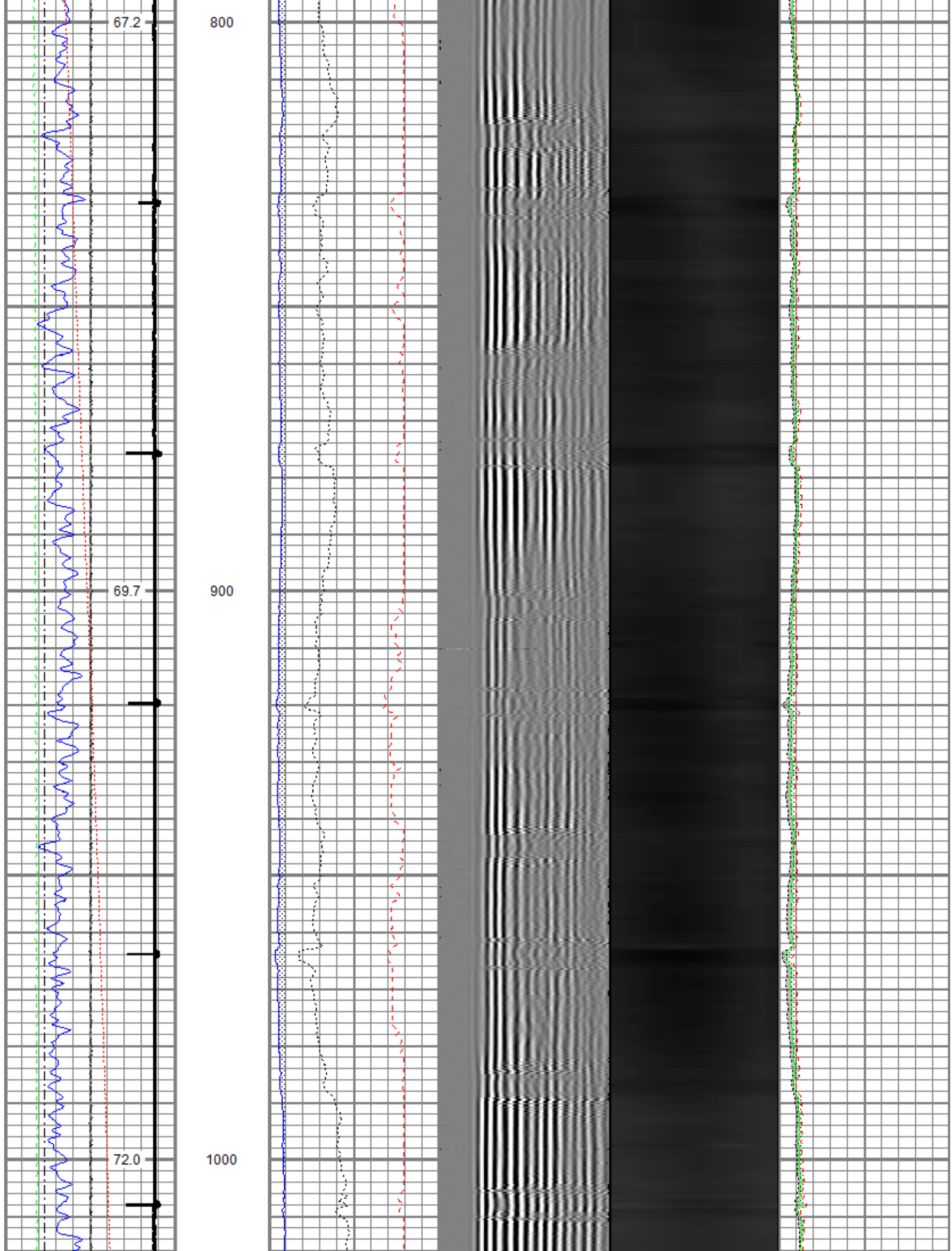
Gamma Ray (GAPI)	0 120	3' Amplitude (mV) 100 3' Amplitude x 5 (mV) 20	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 100 Minimum Amplitude Maximum Amplitude
Casing Collar Locator					
Line Speed (ft/min)	-100 100	3' Travel Time (usec) 150			
Line Tension (lb)	0 2000				
Differential Temperature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

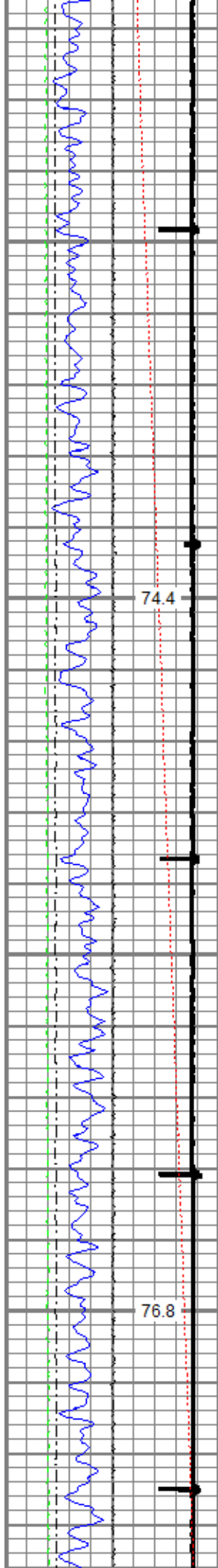






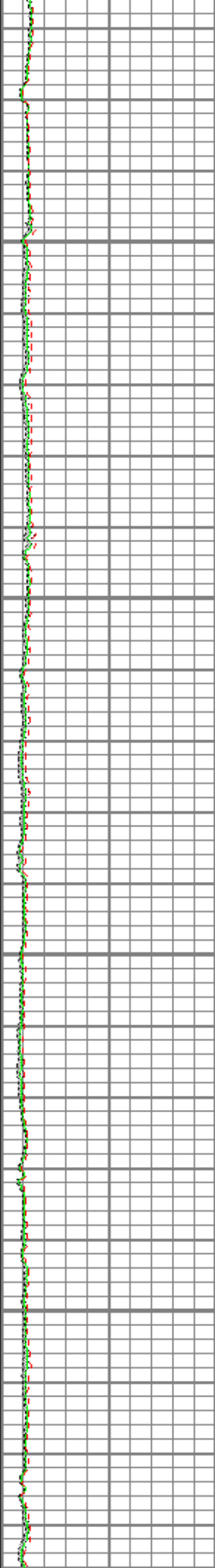
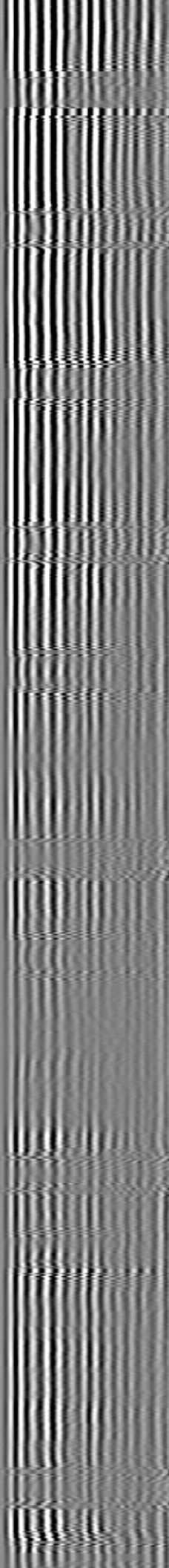
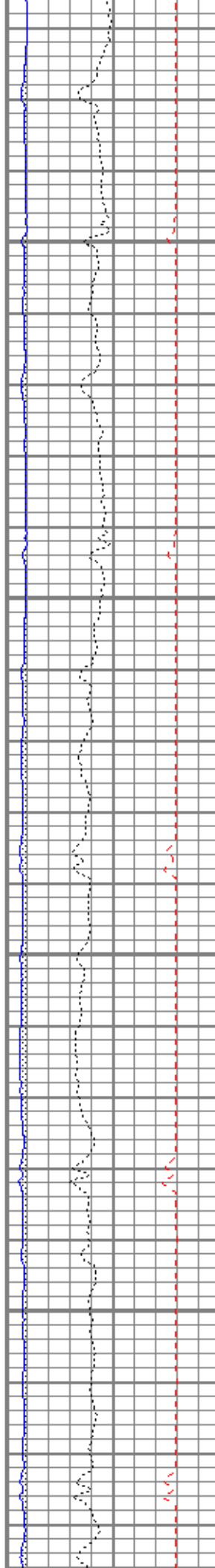


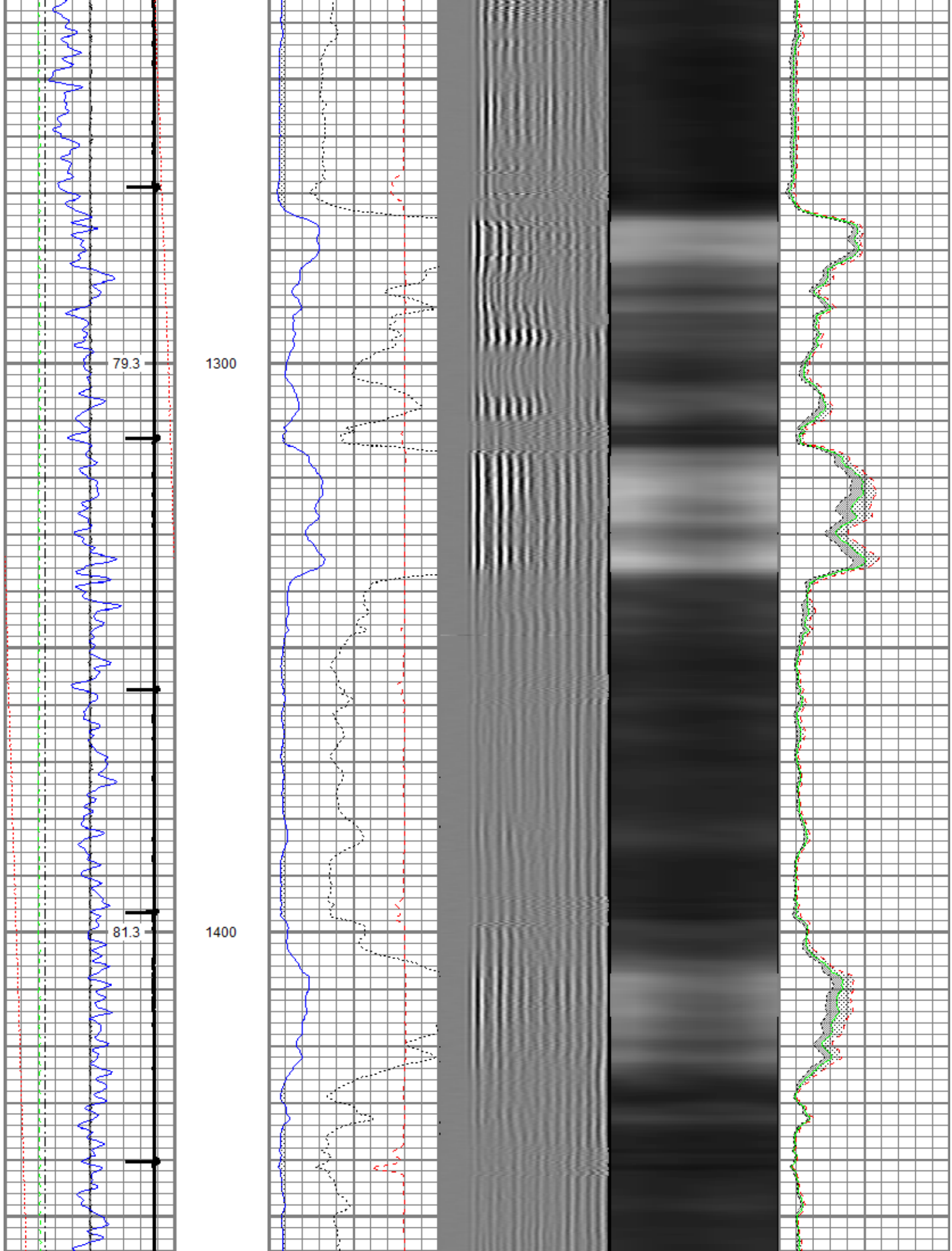


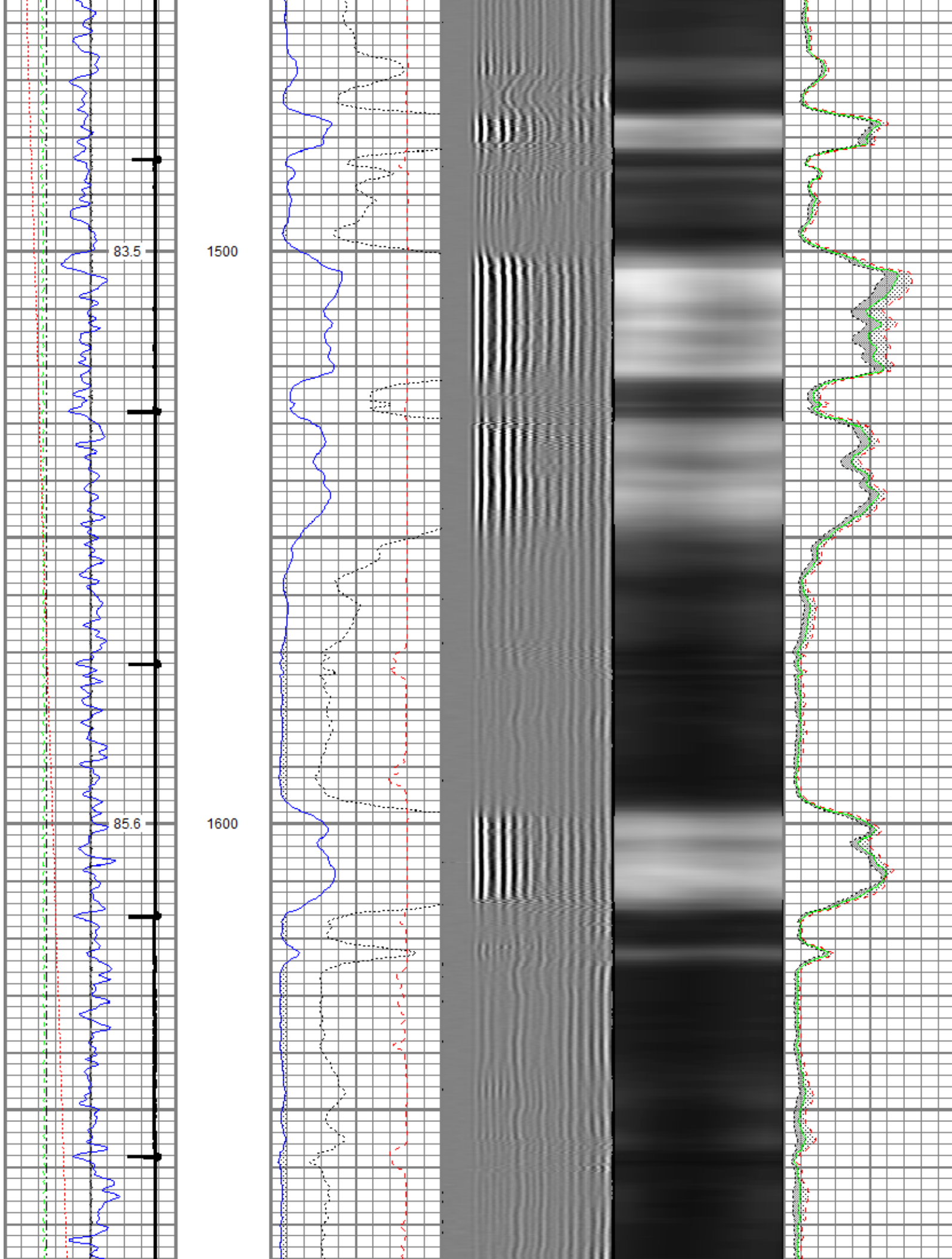


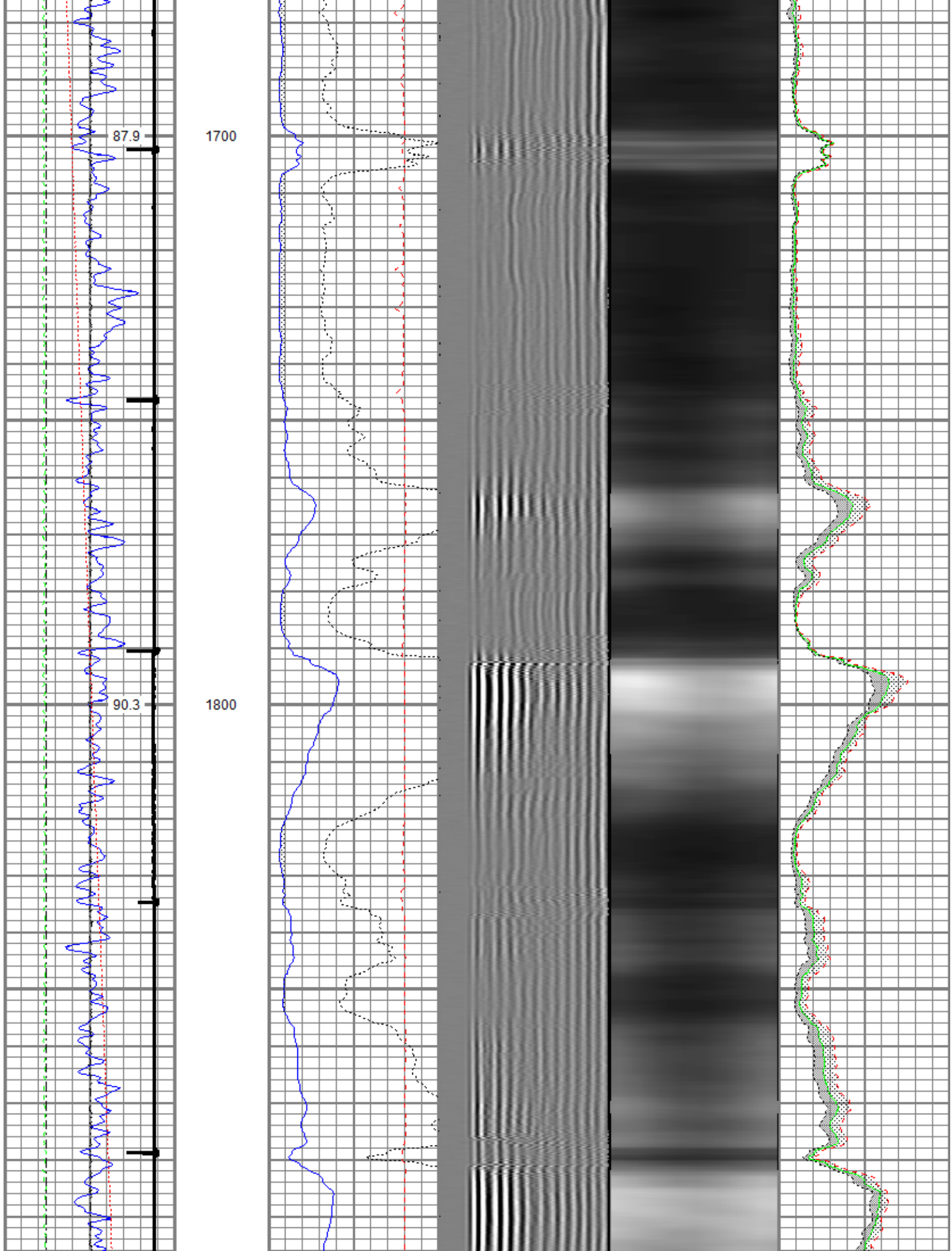
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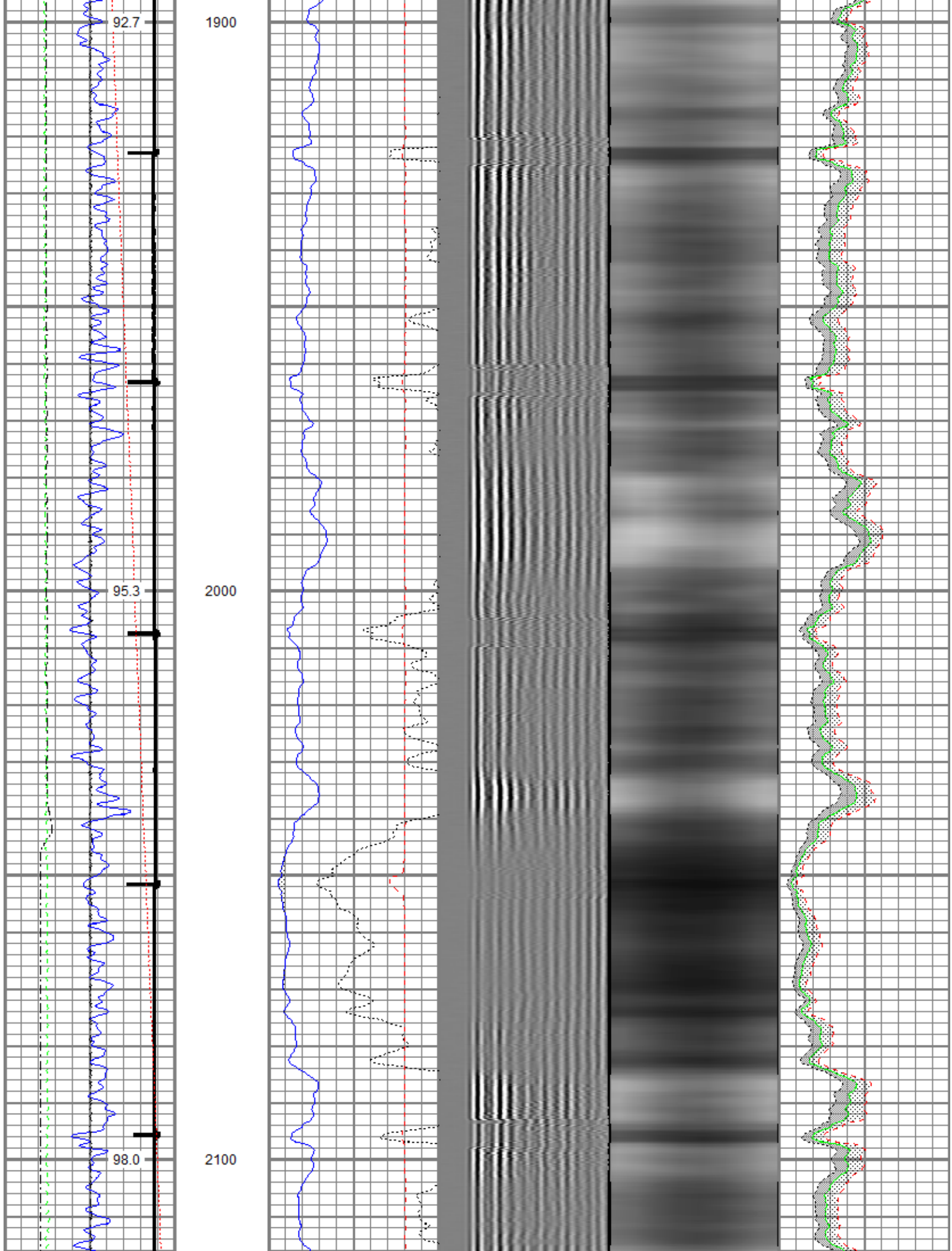
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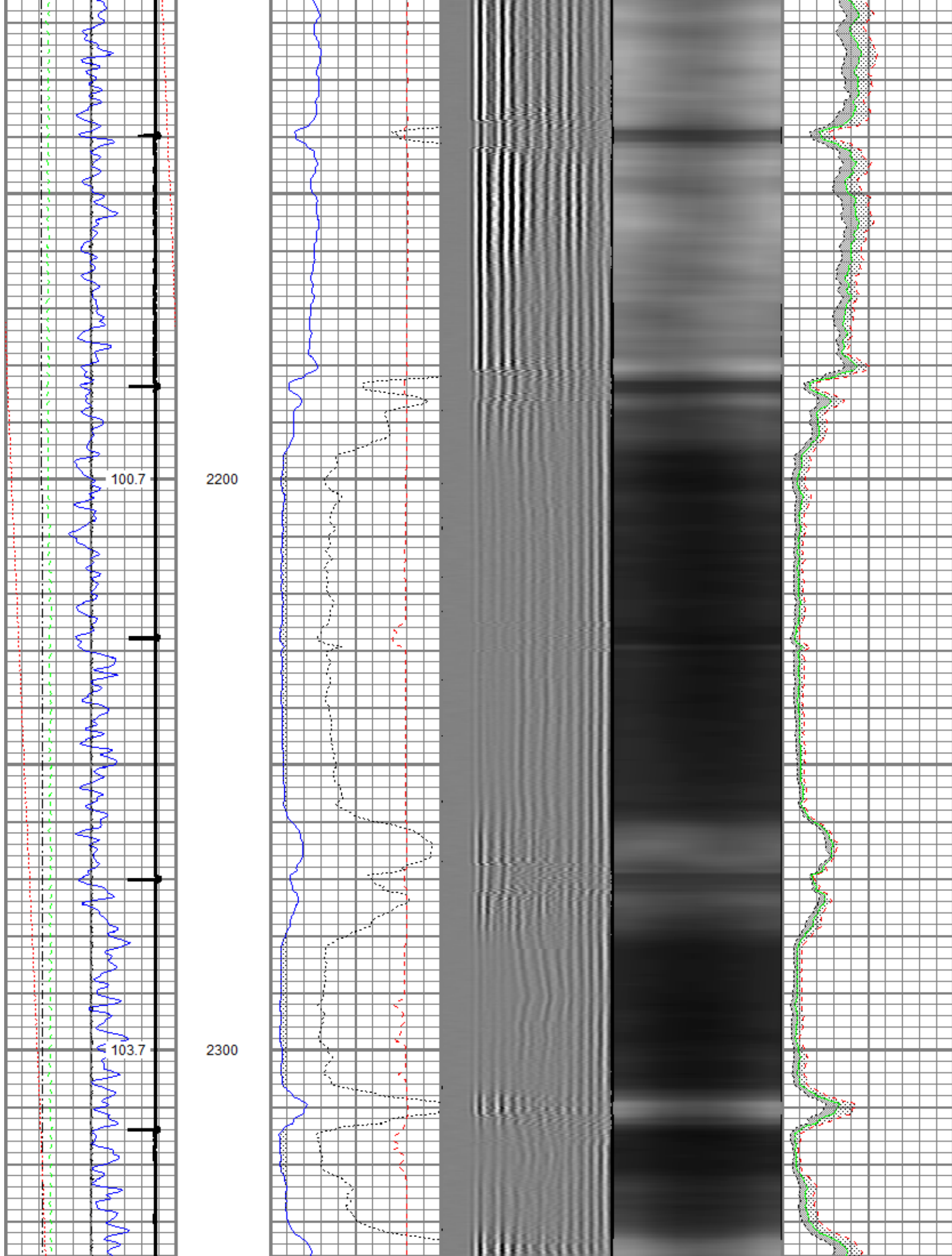


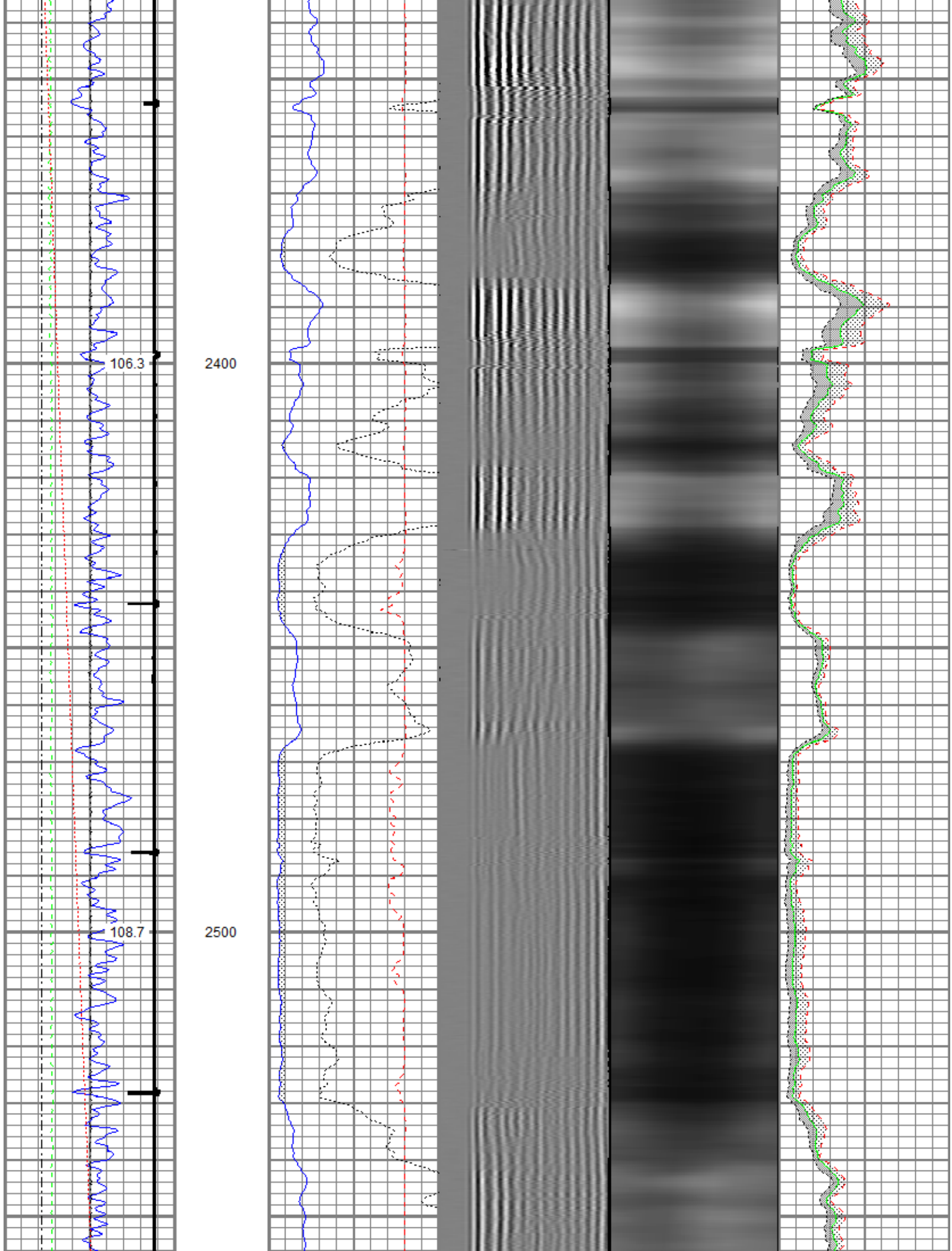


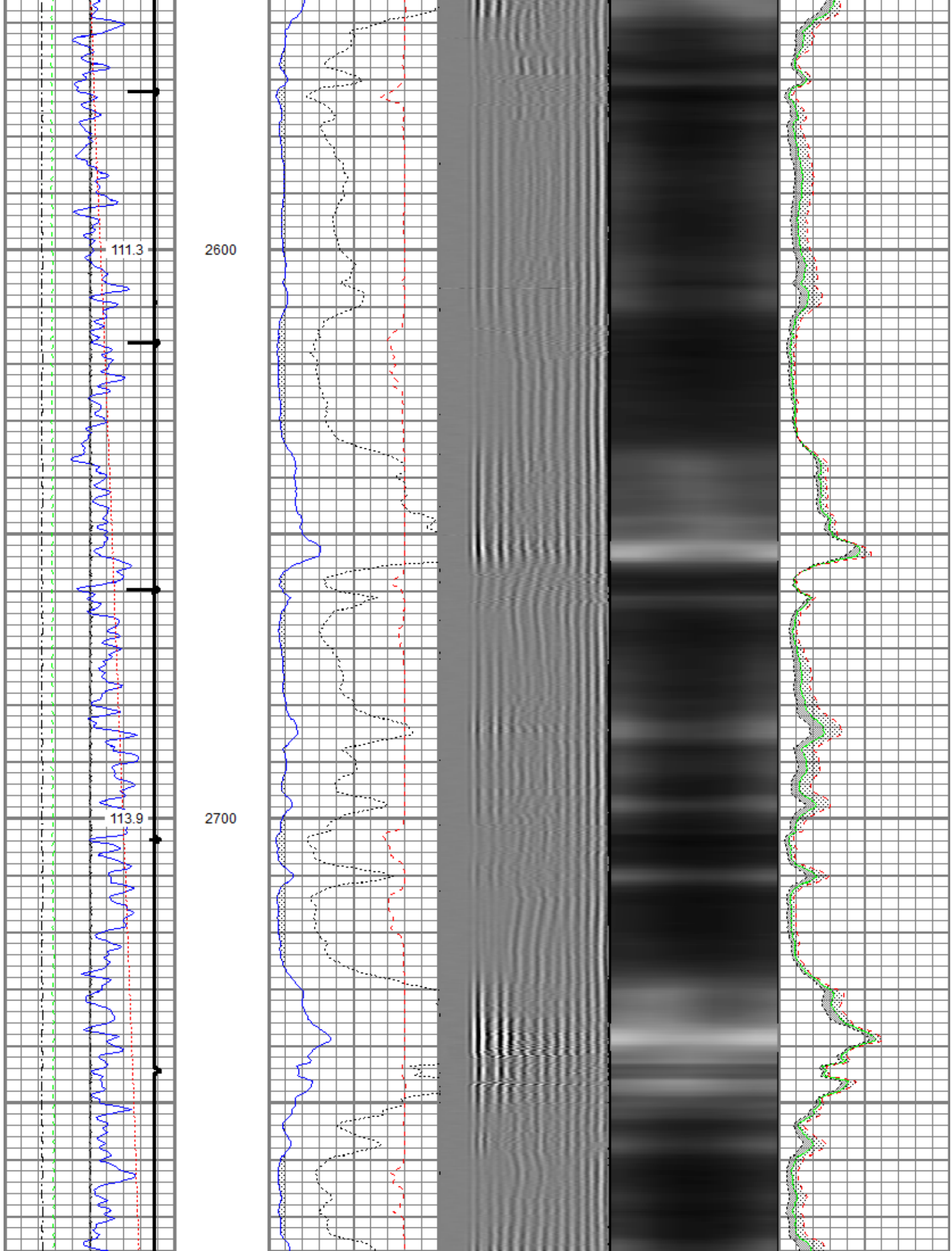


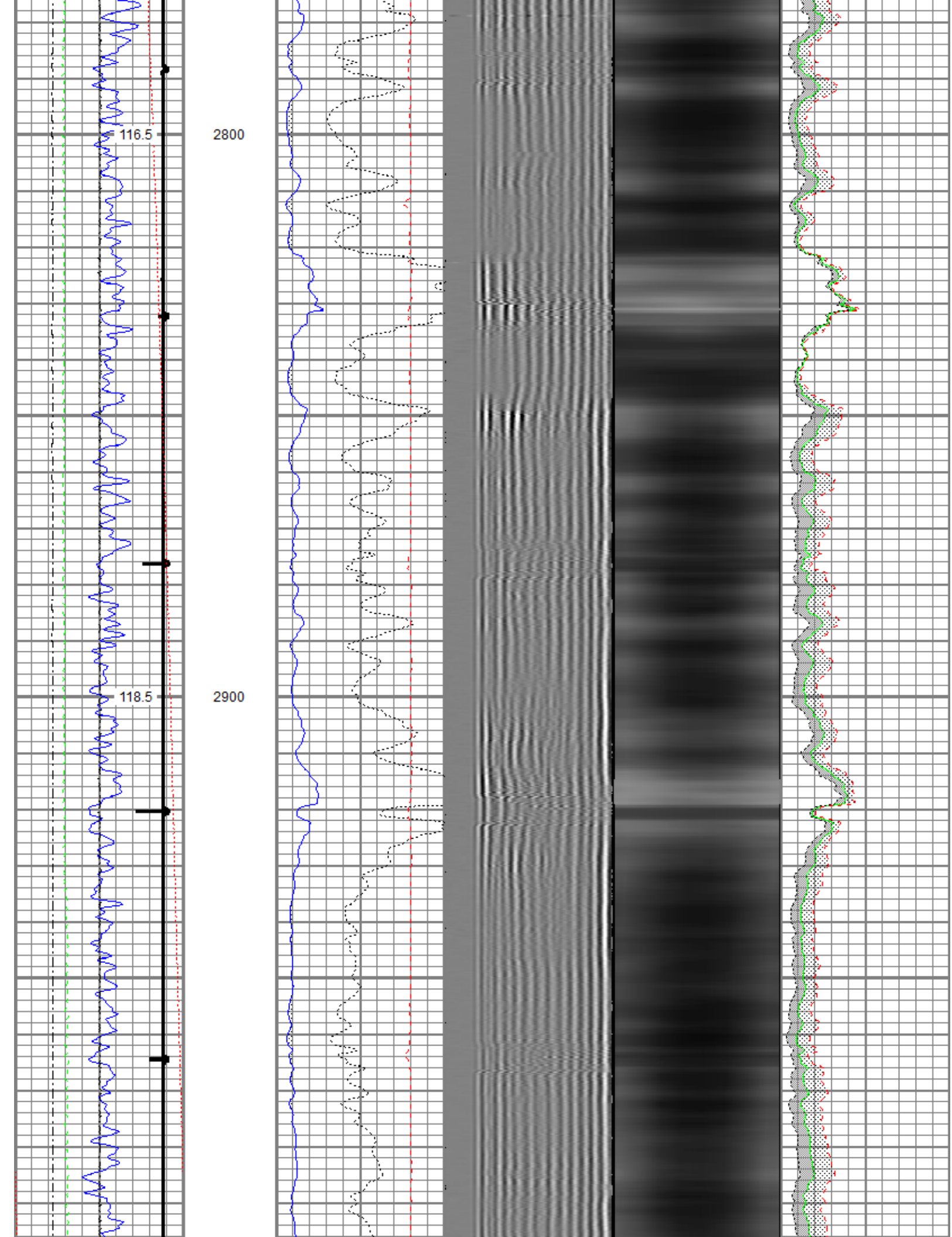


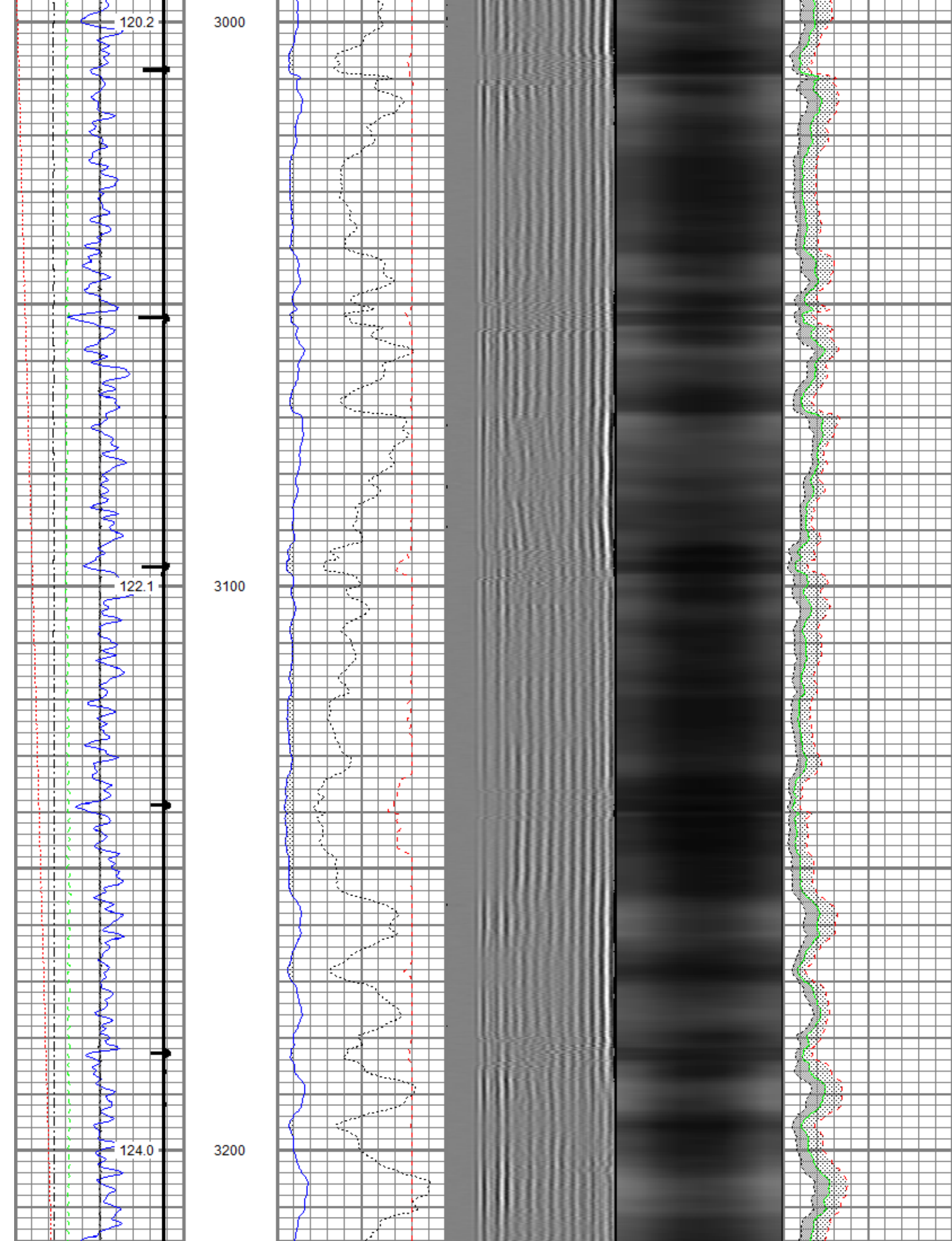


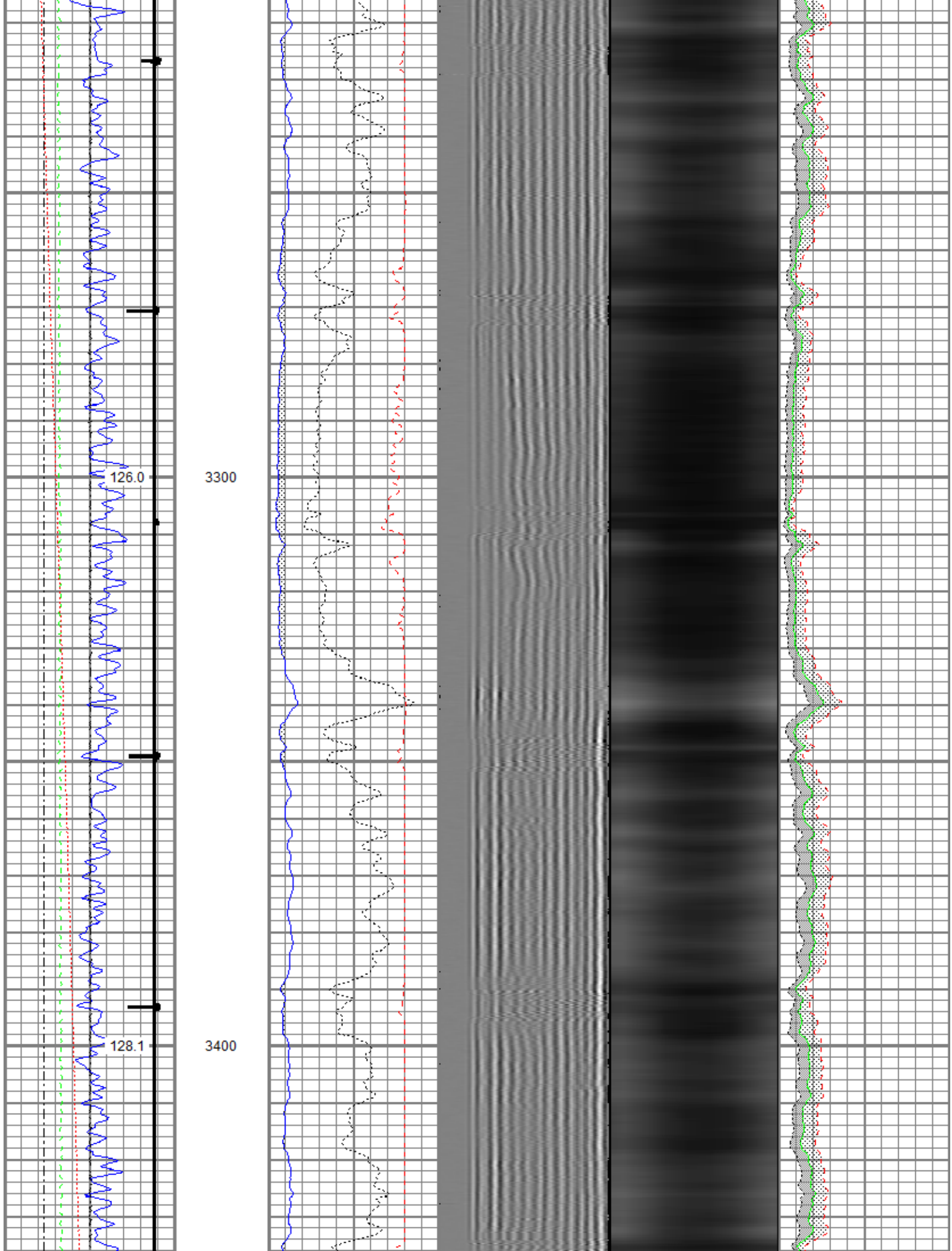


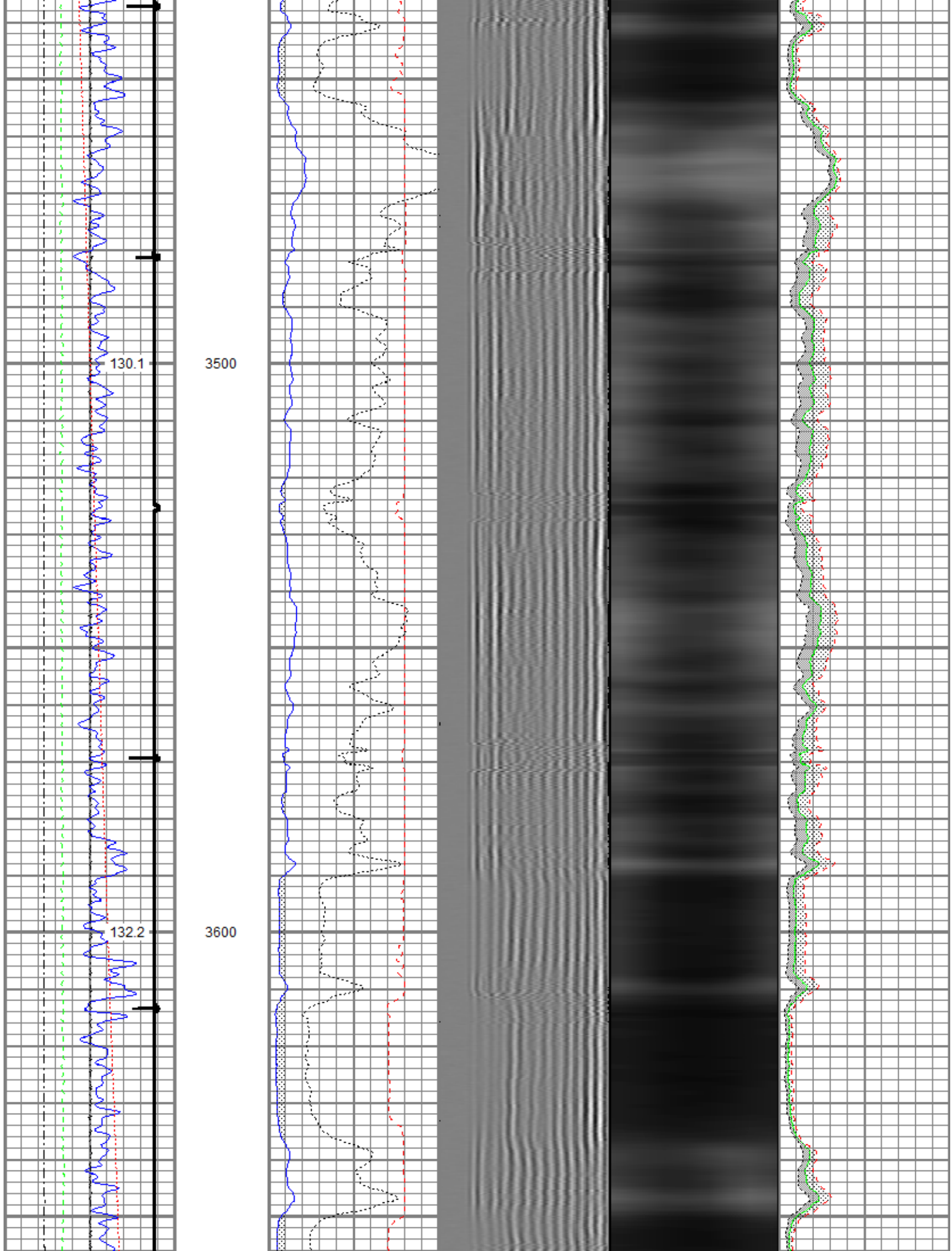


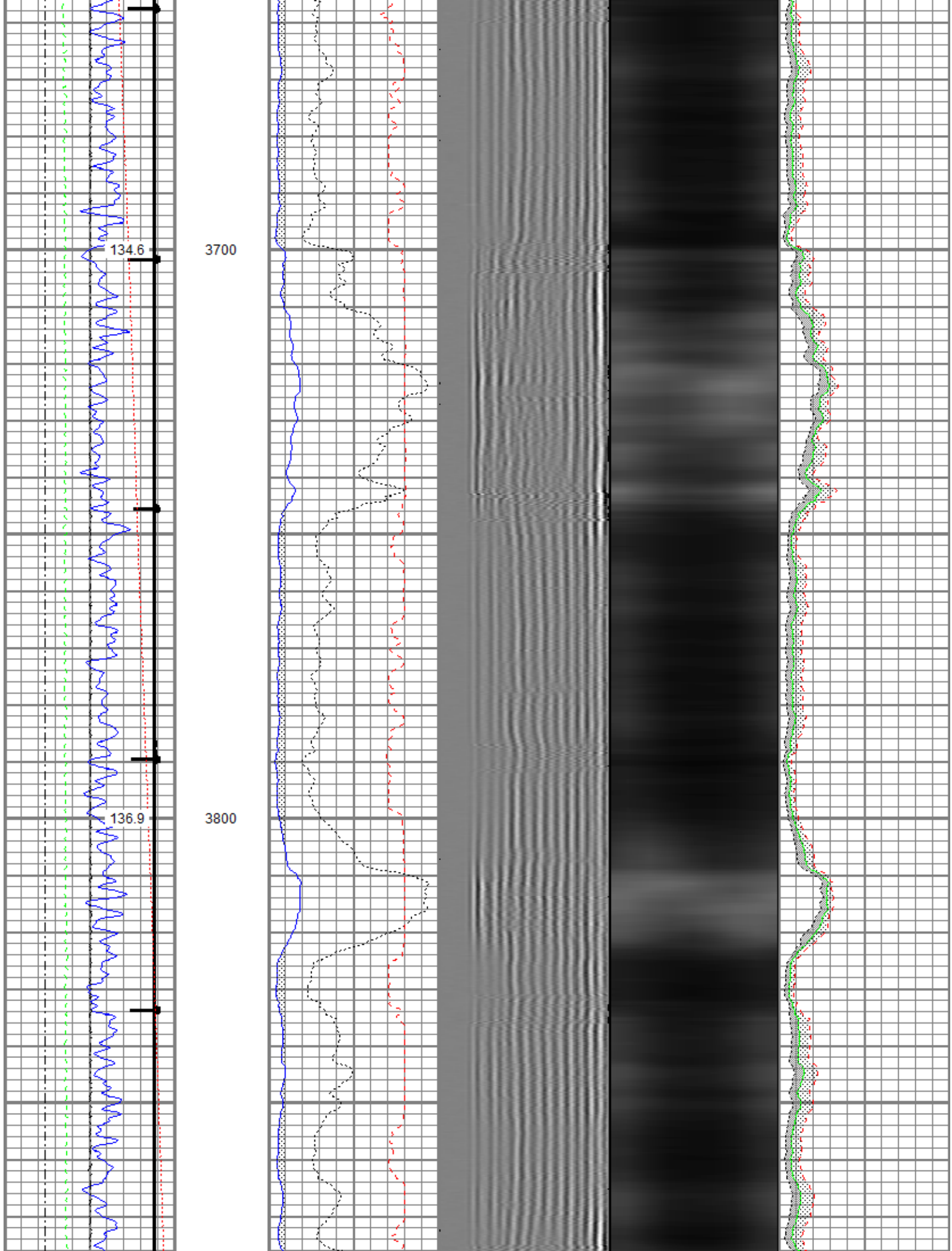


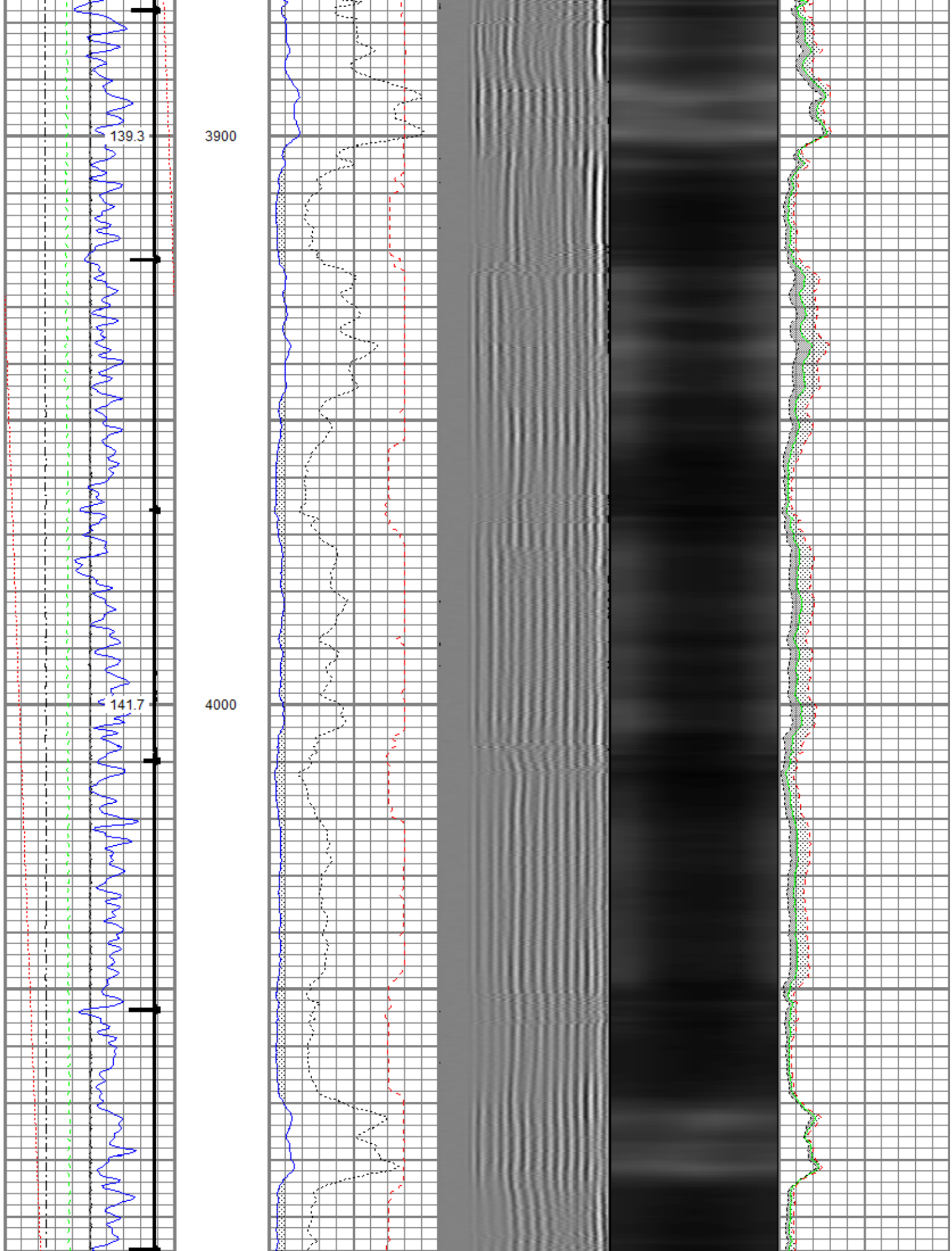


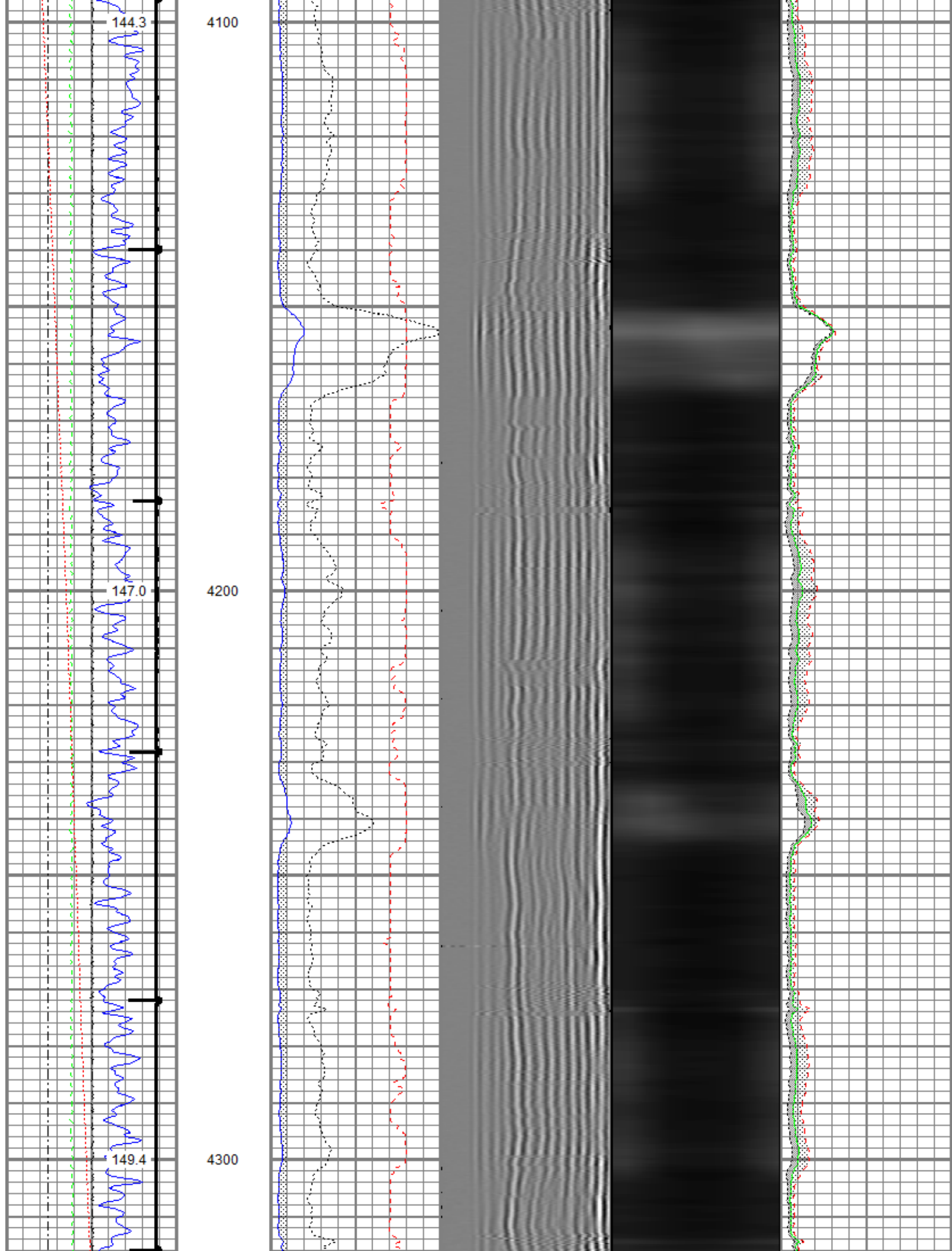


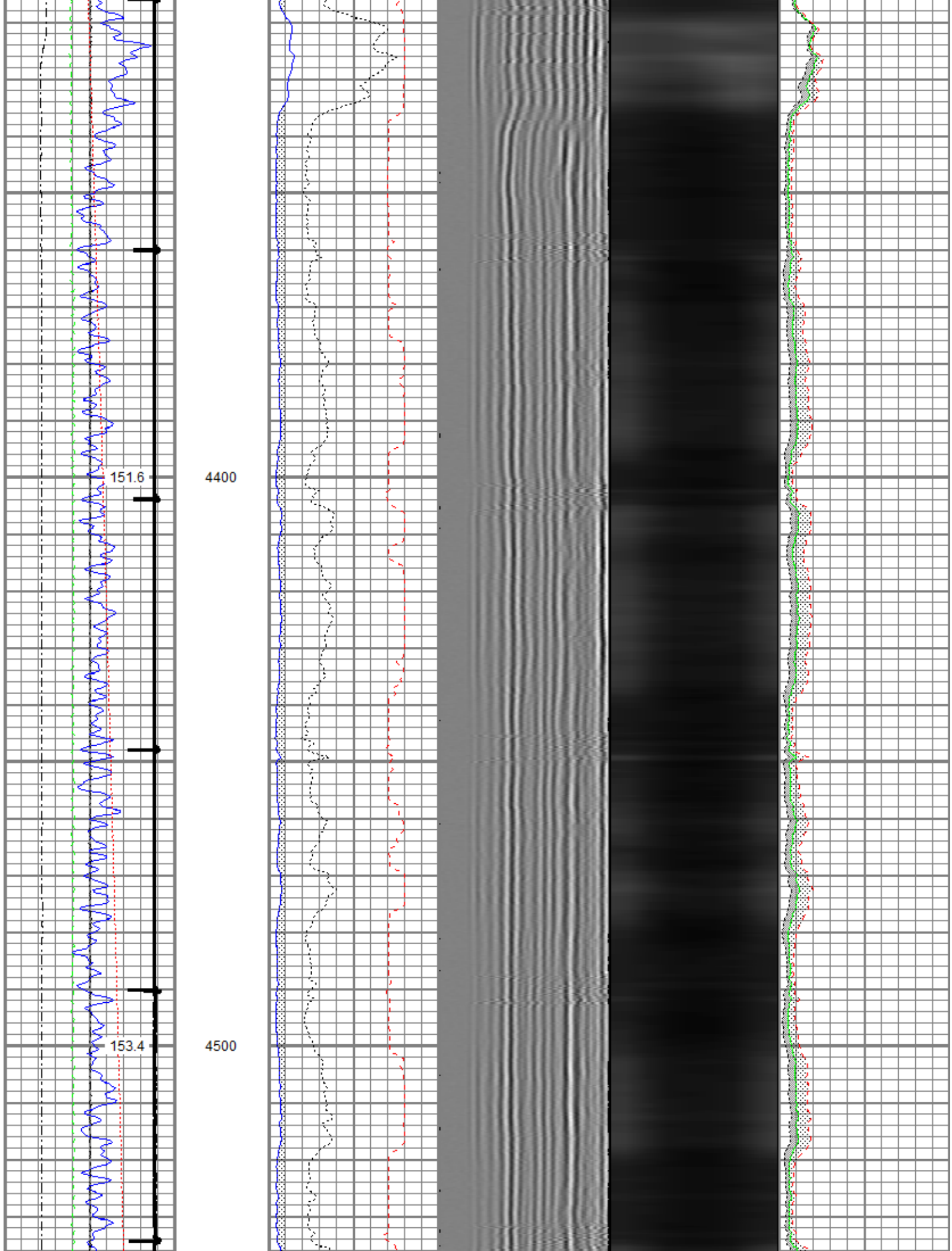


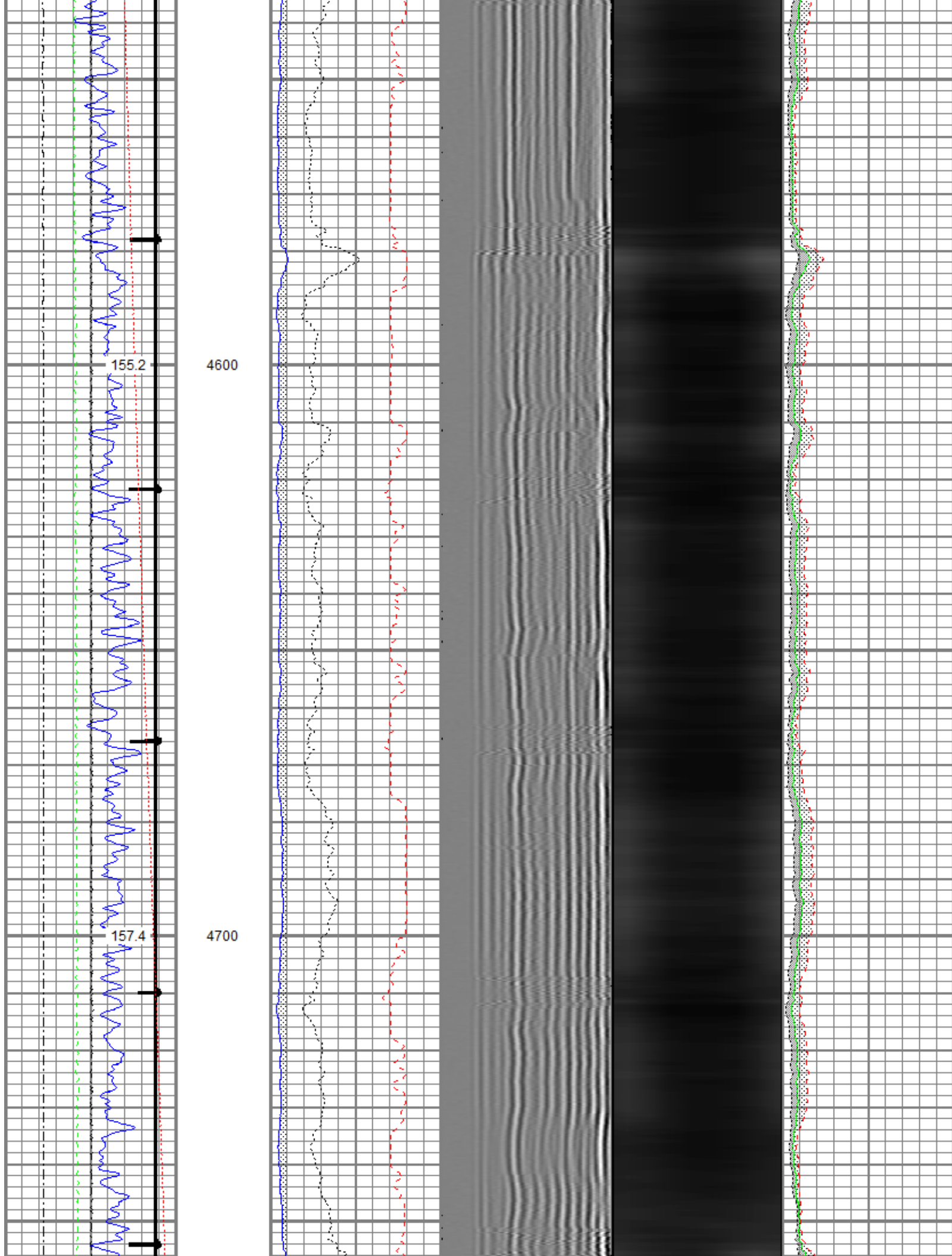


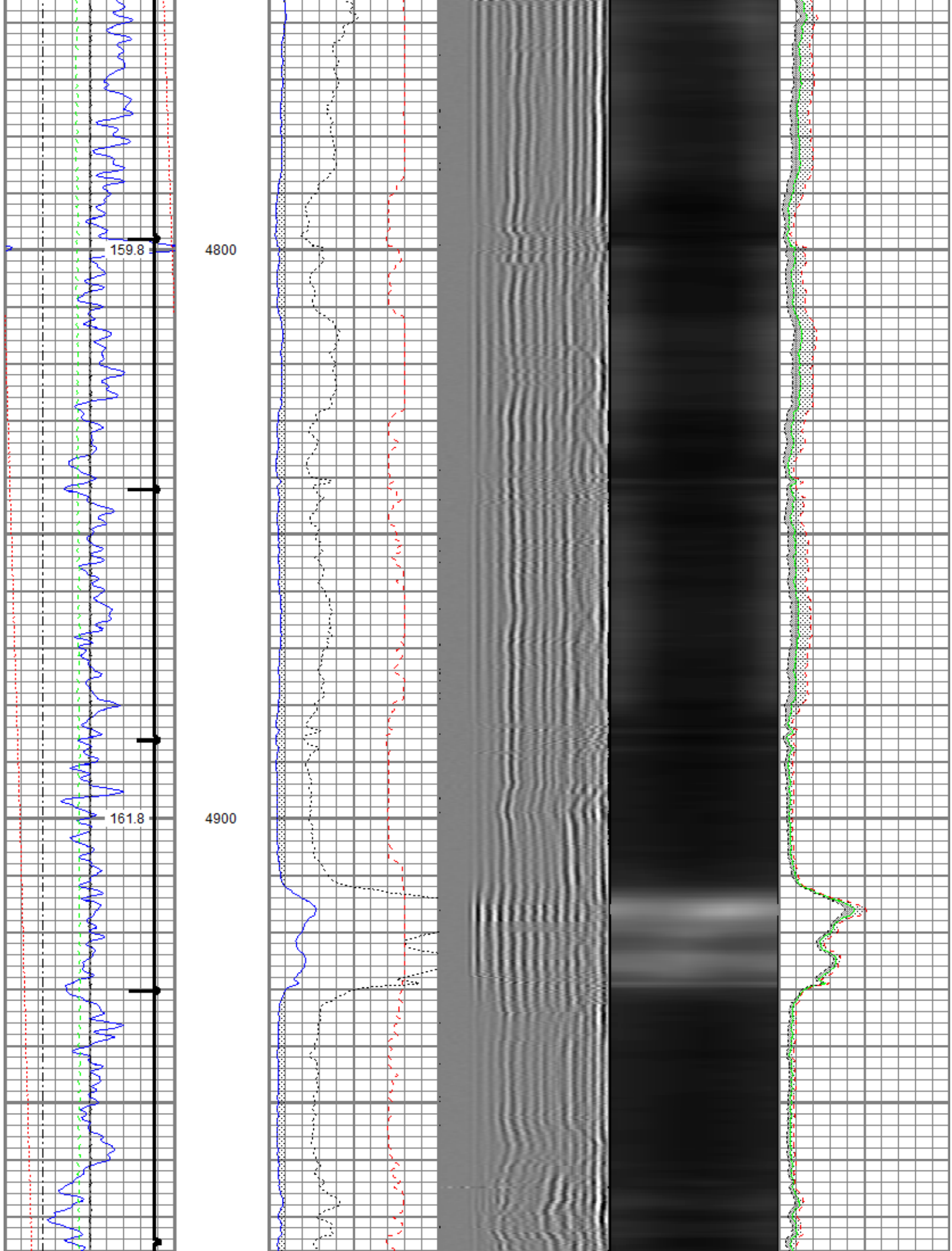


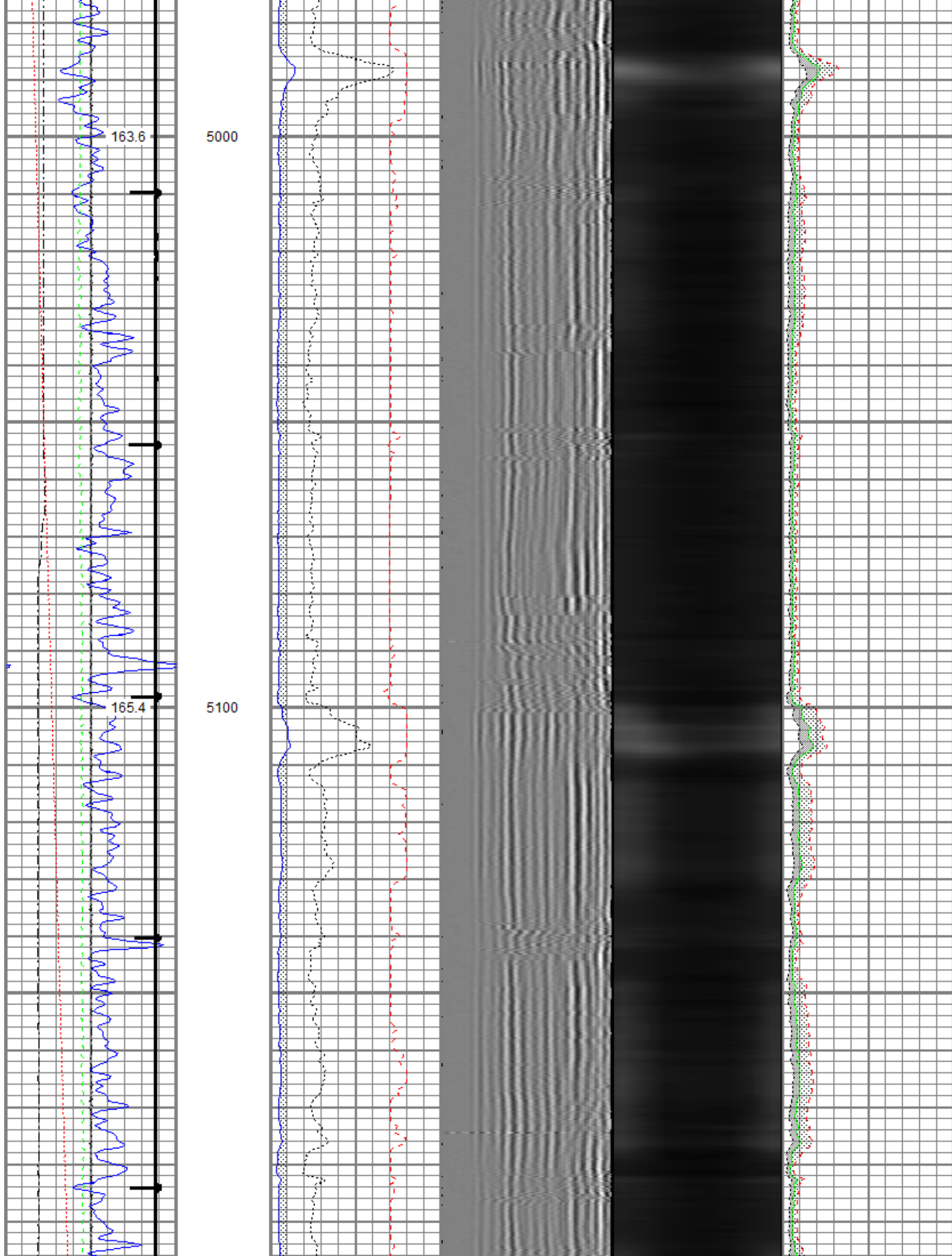


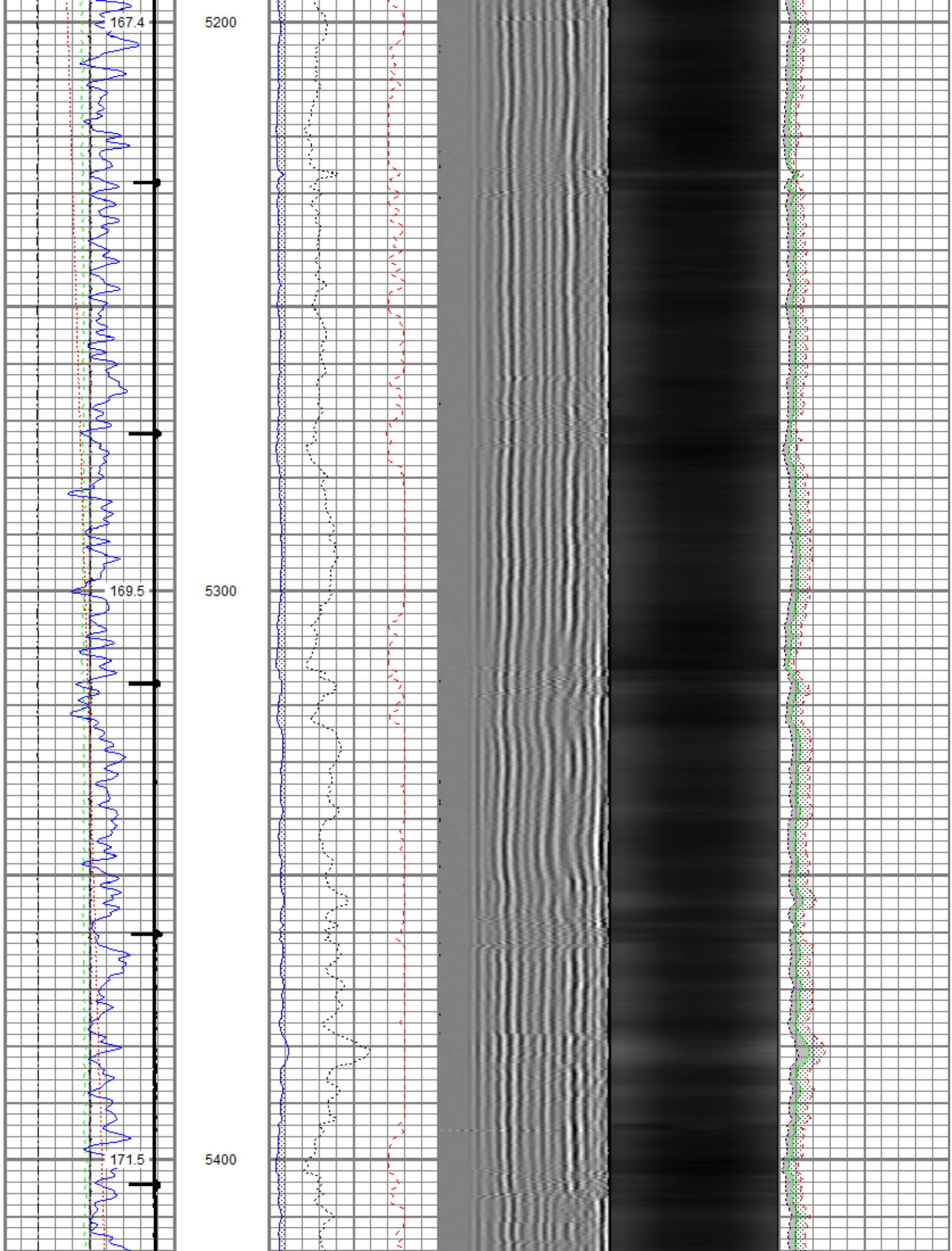


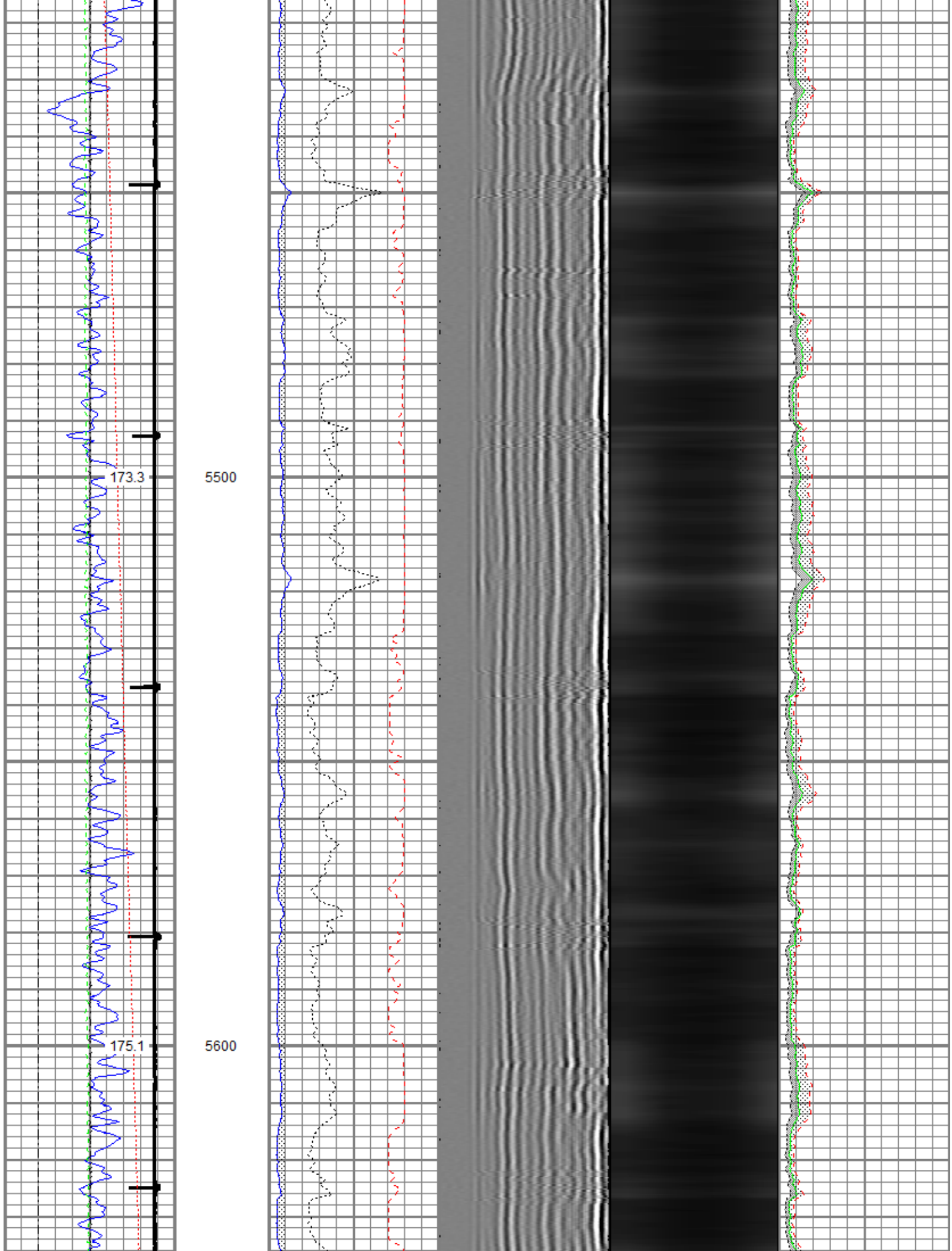


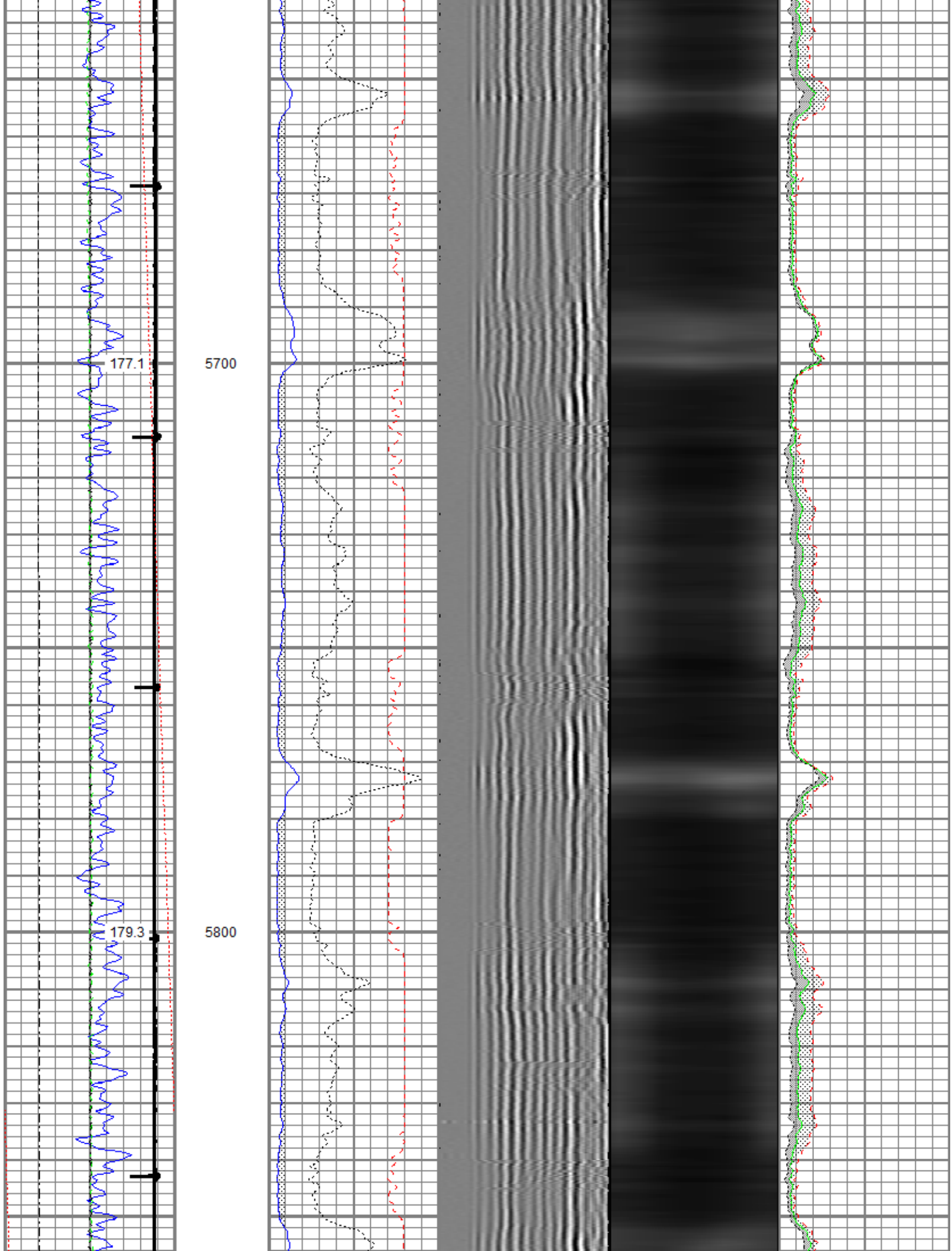


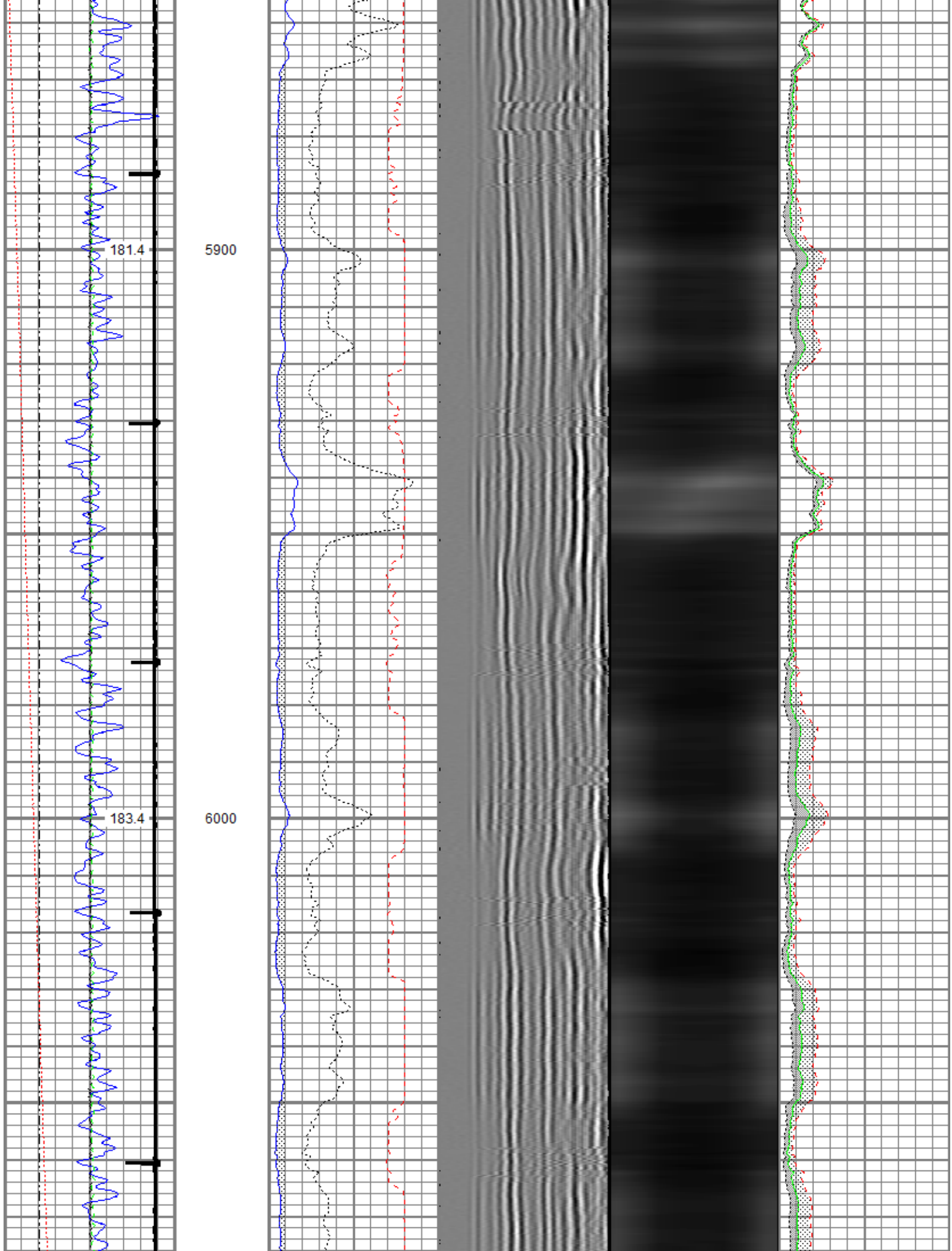


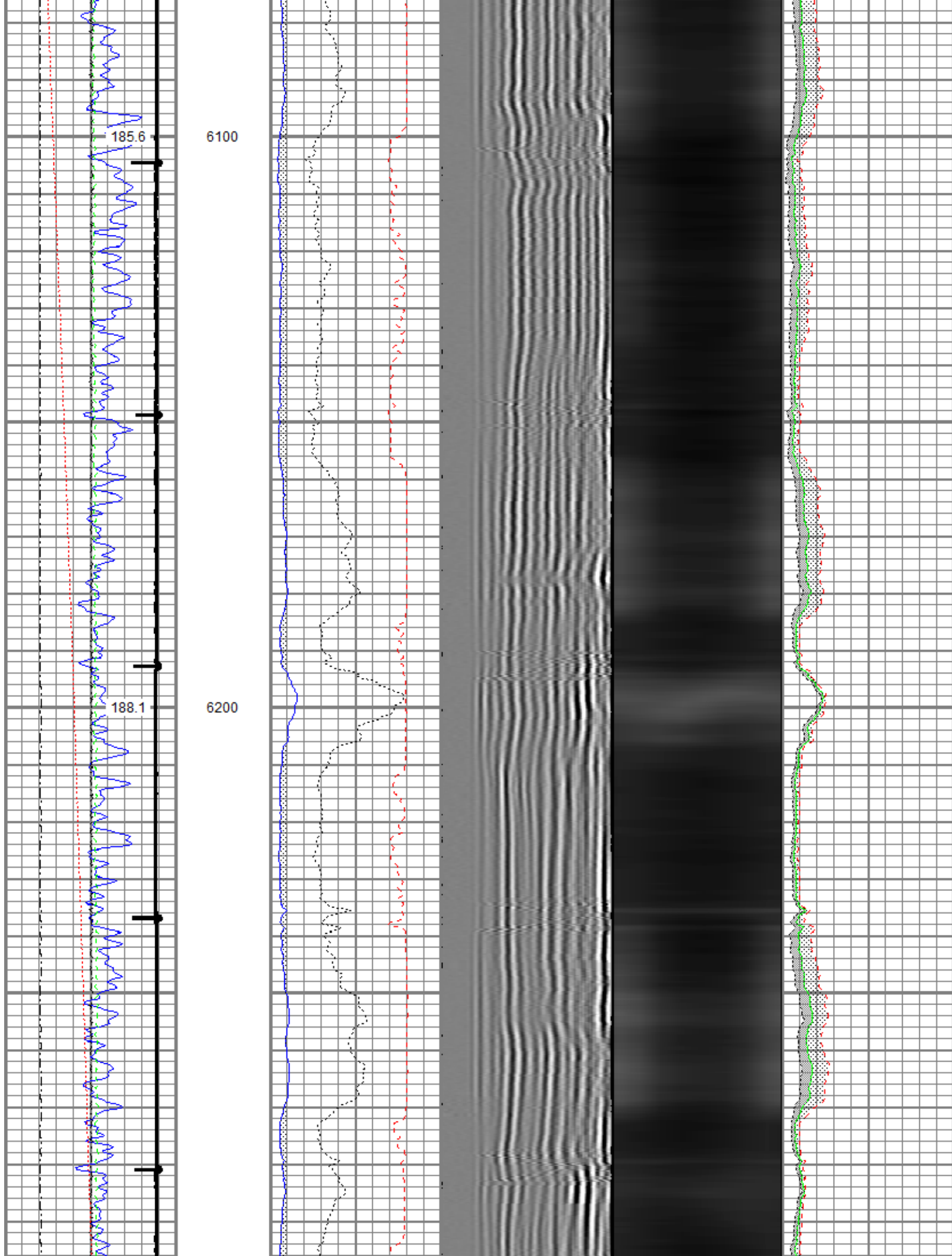


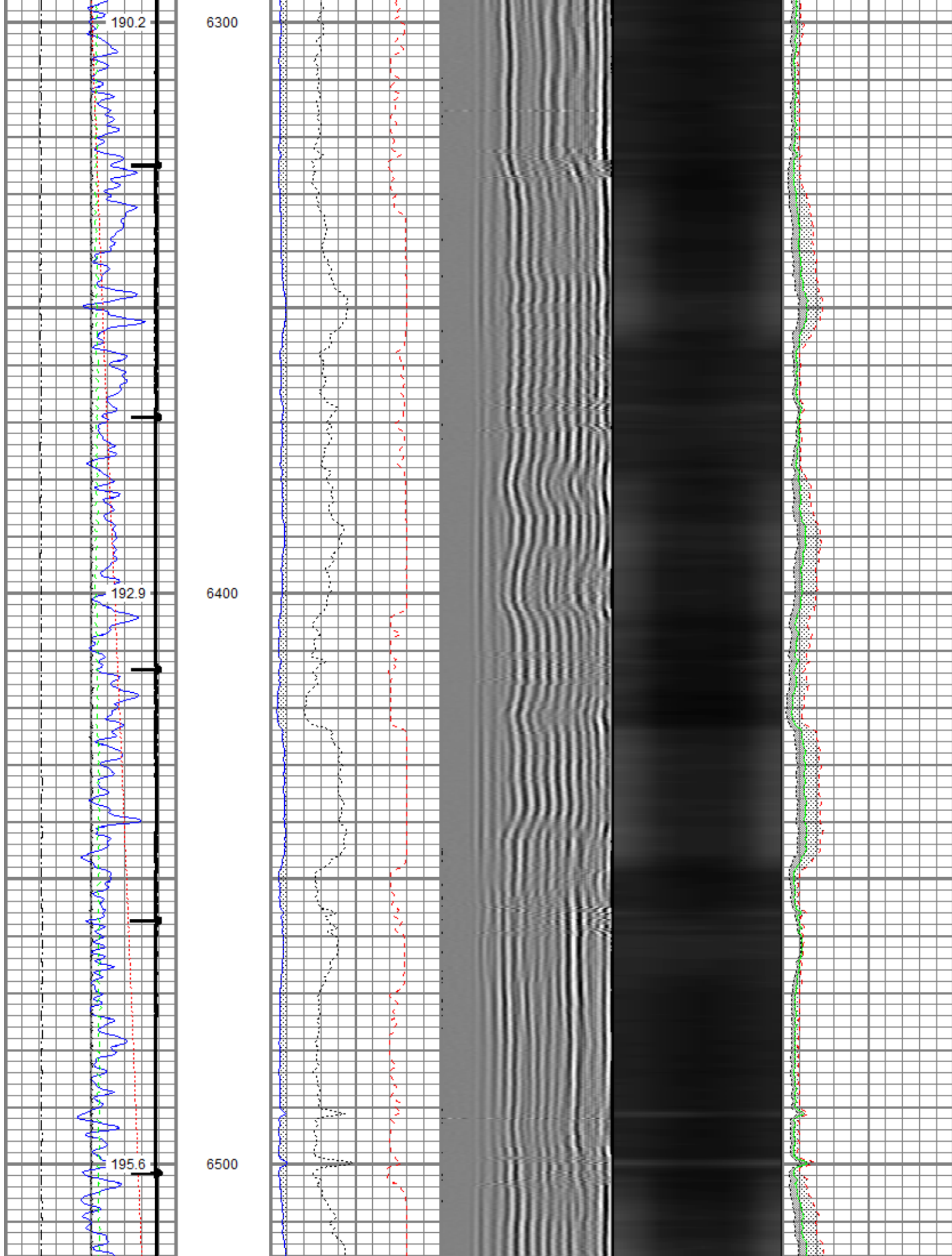


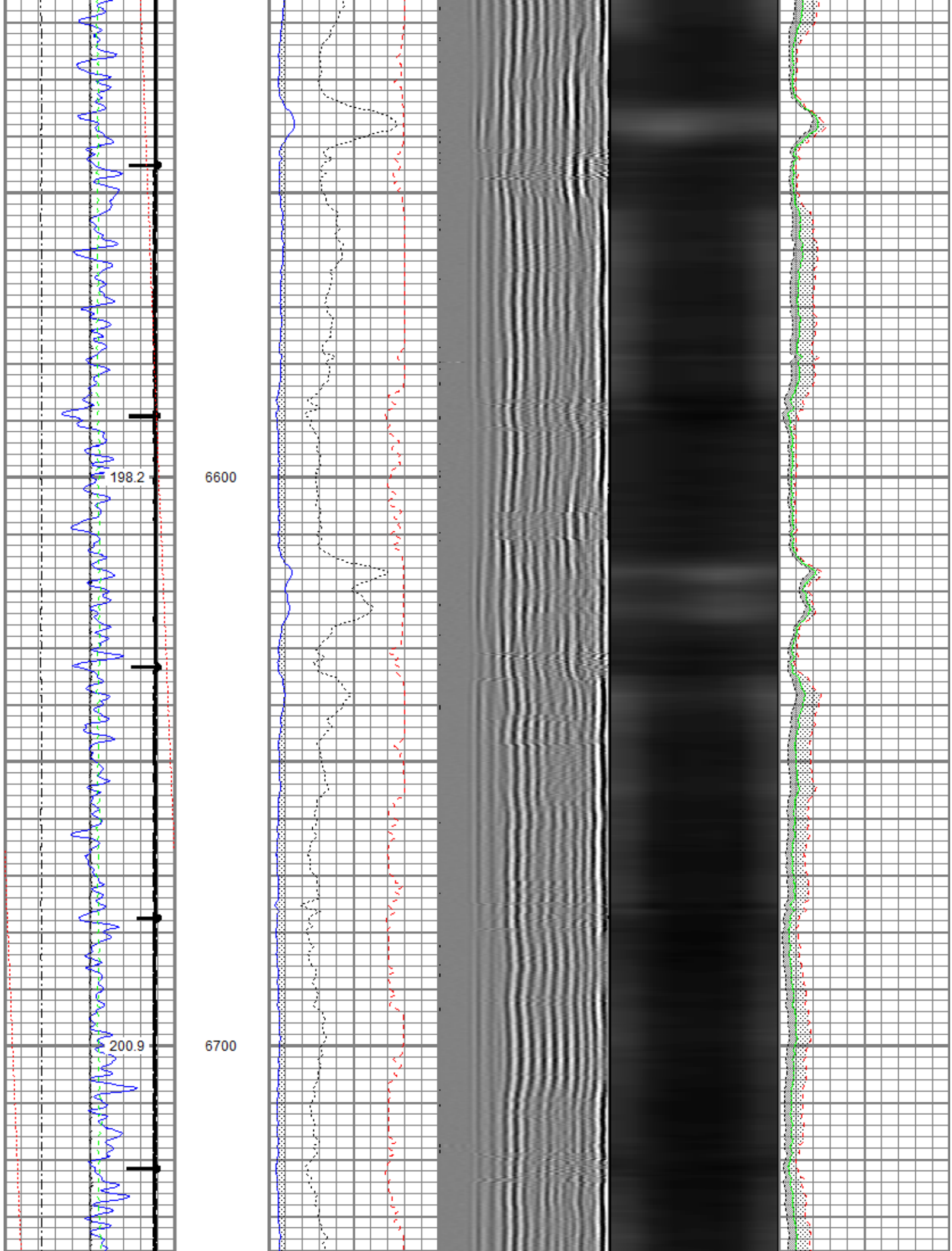


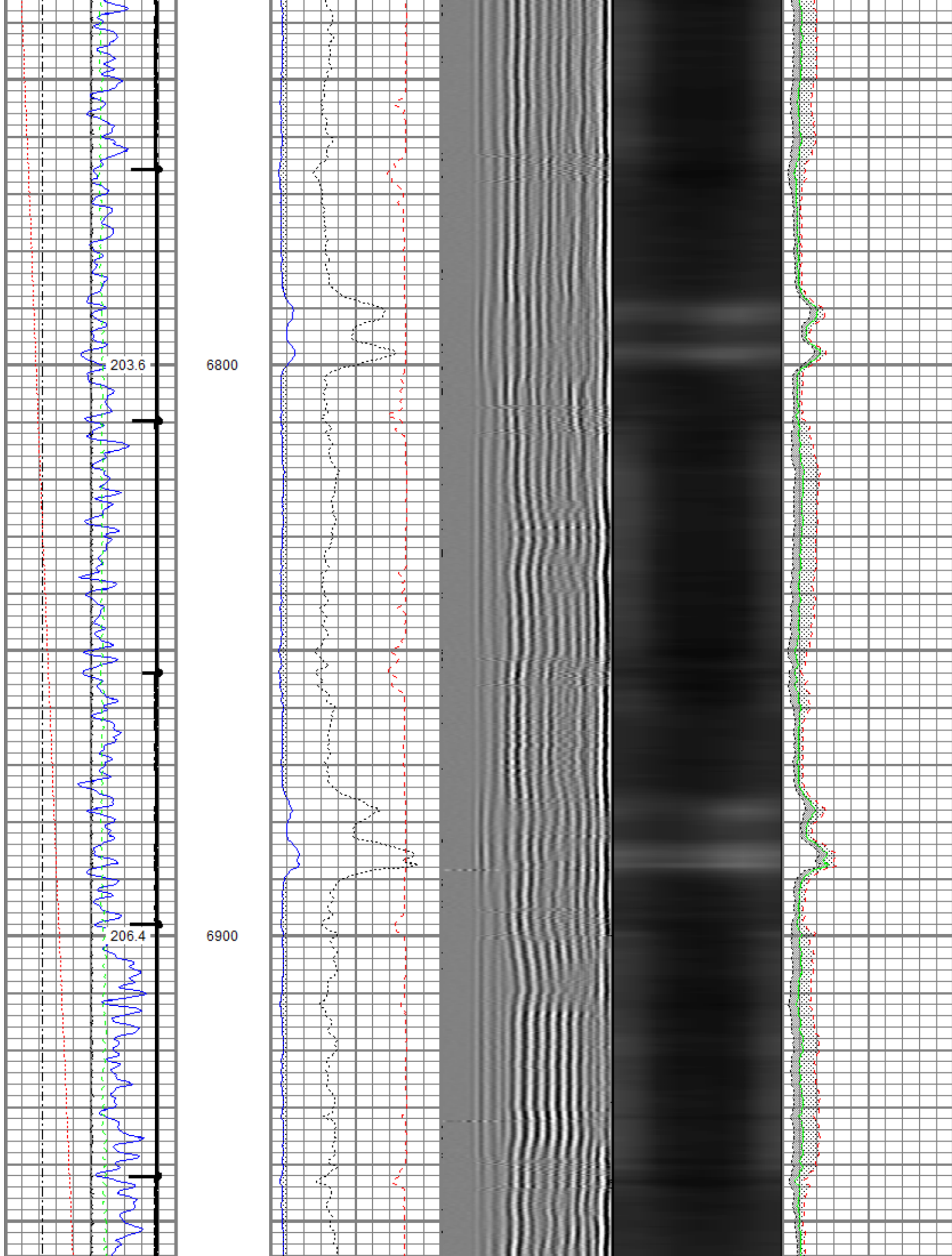


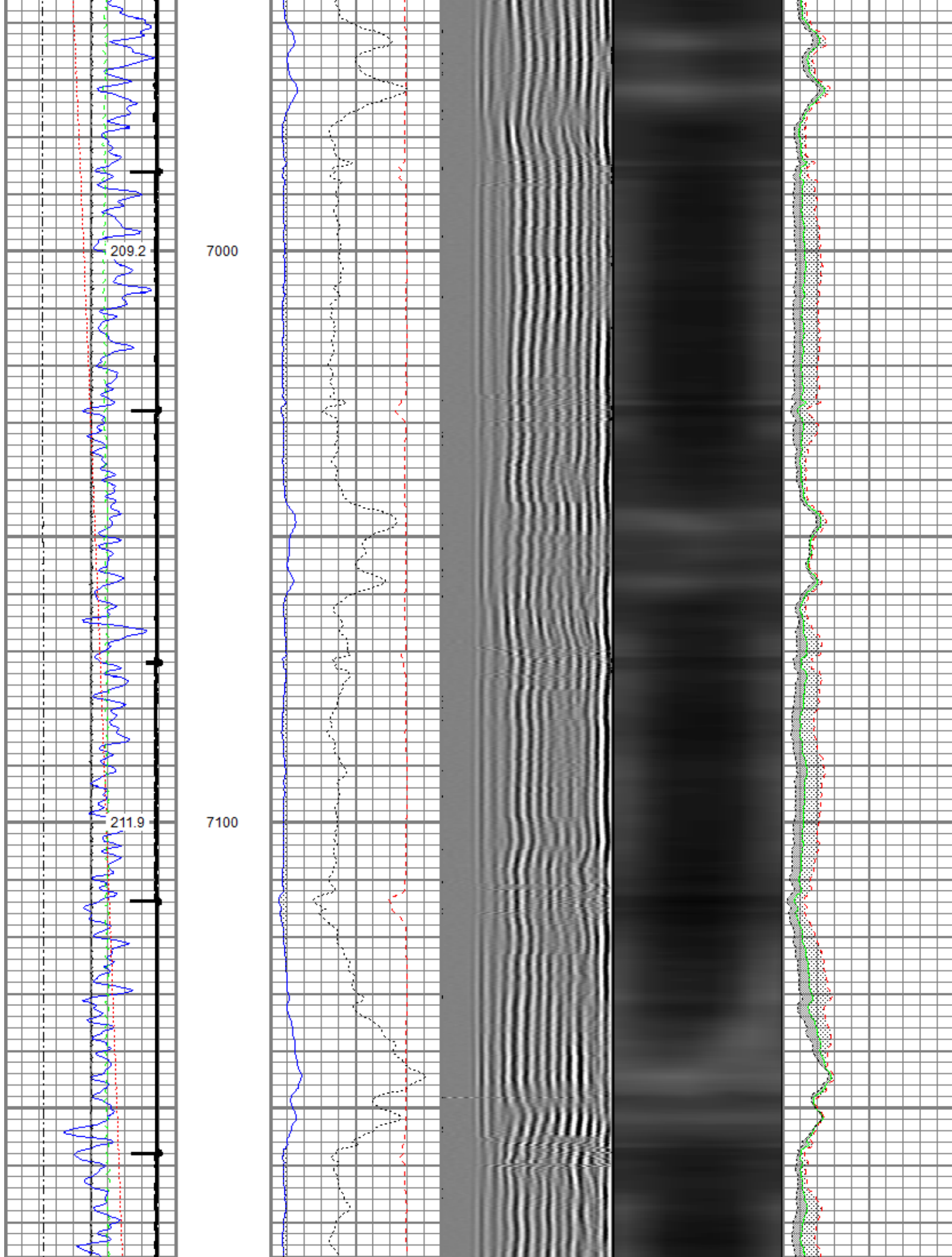


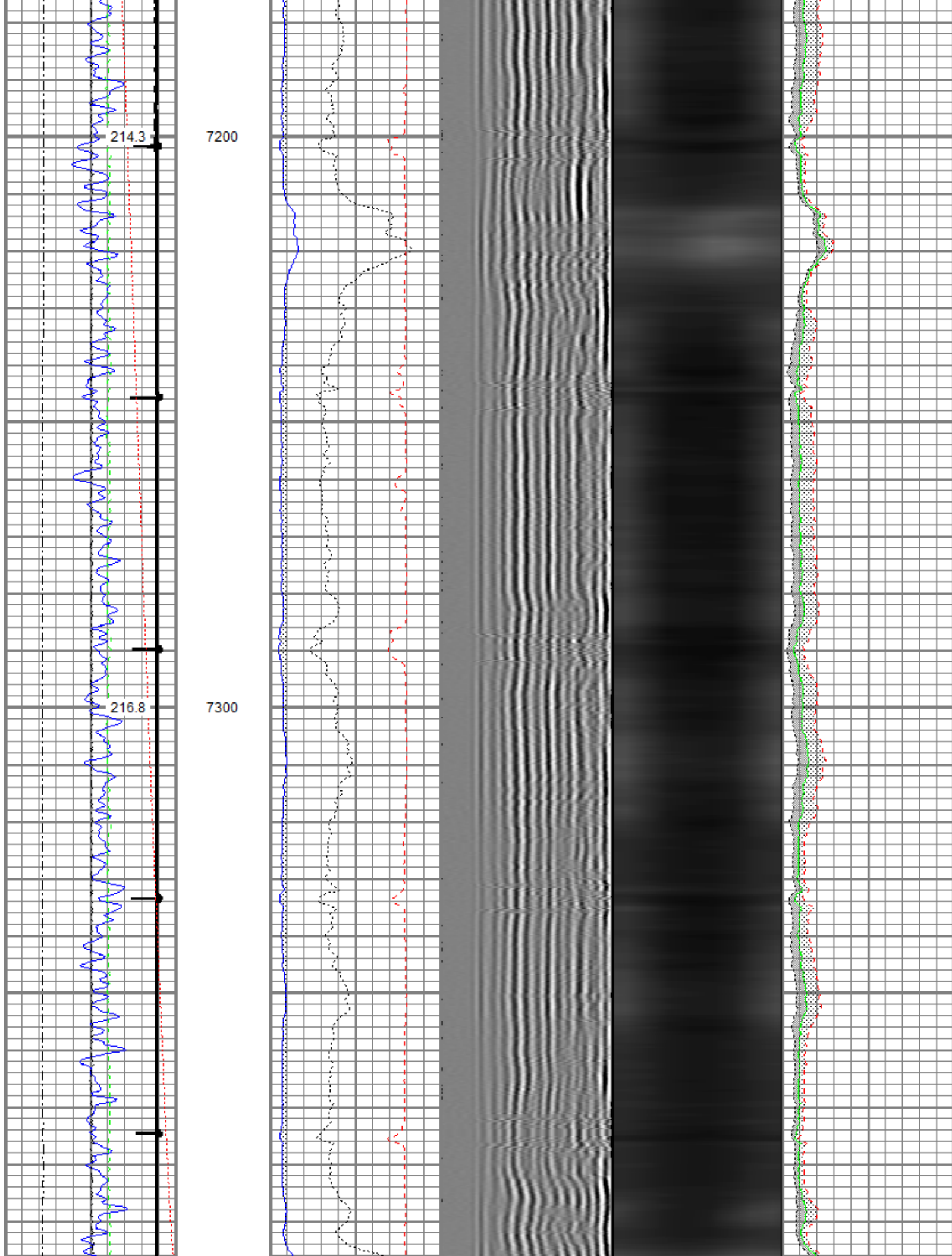


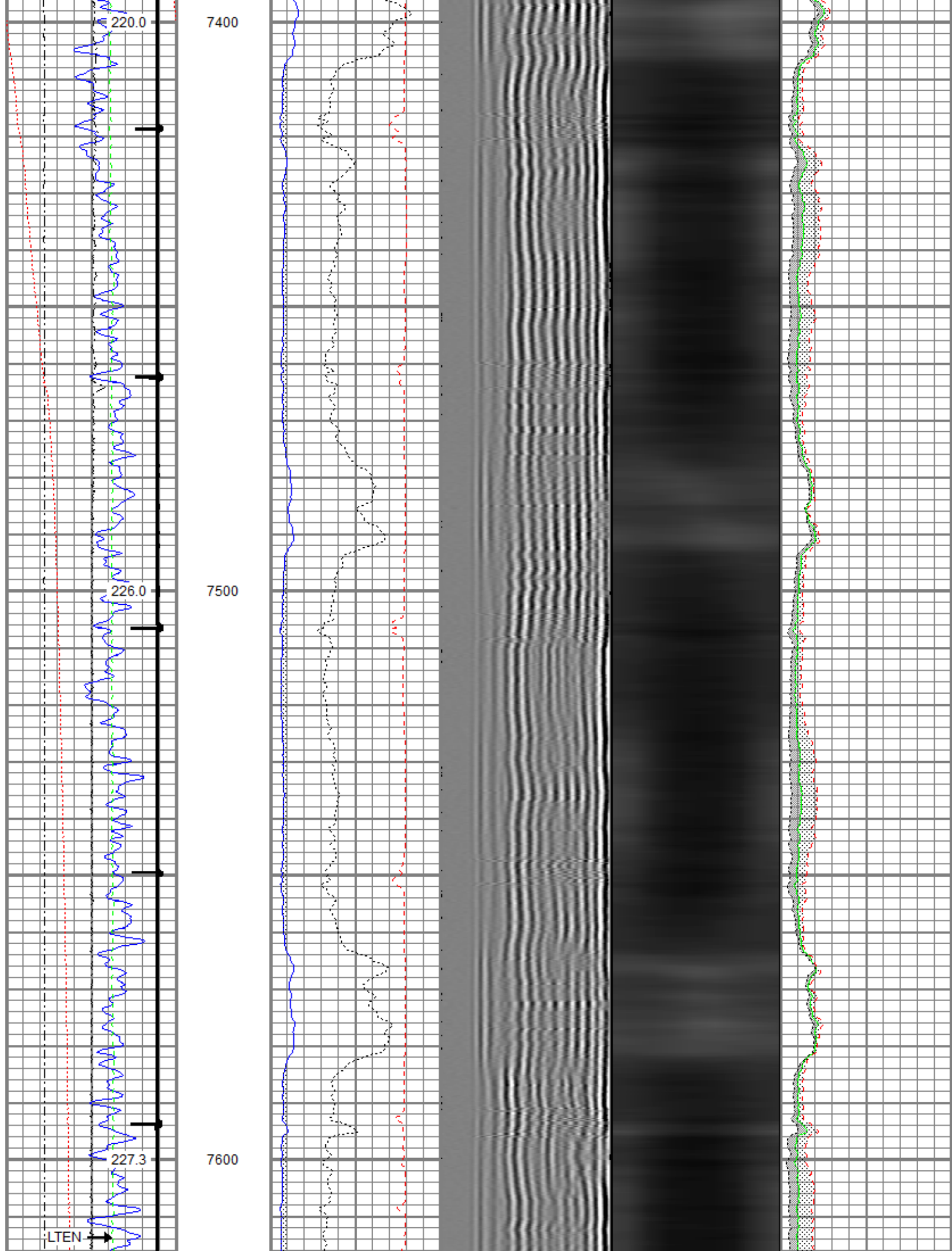


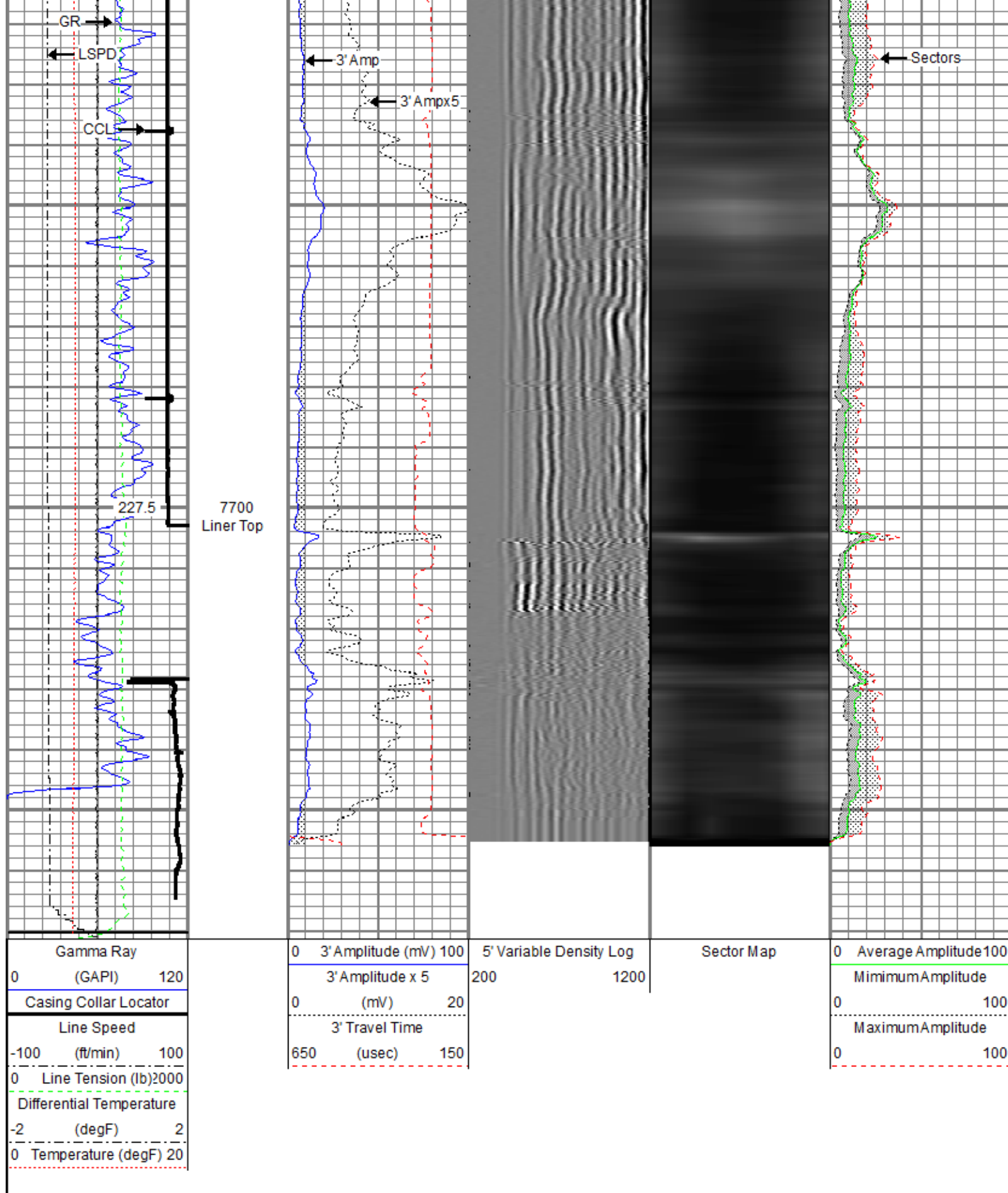






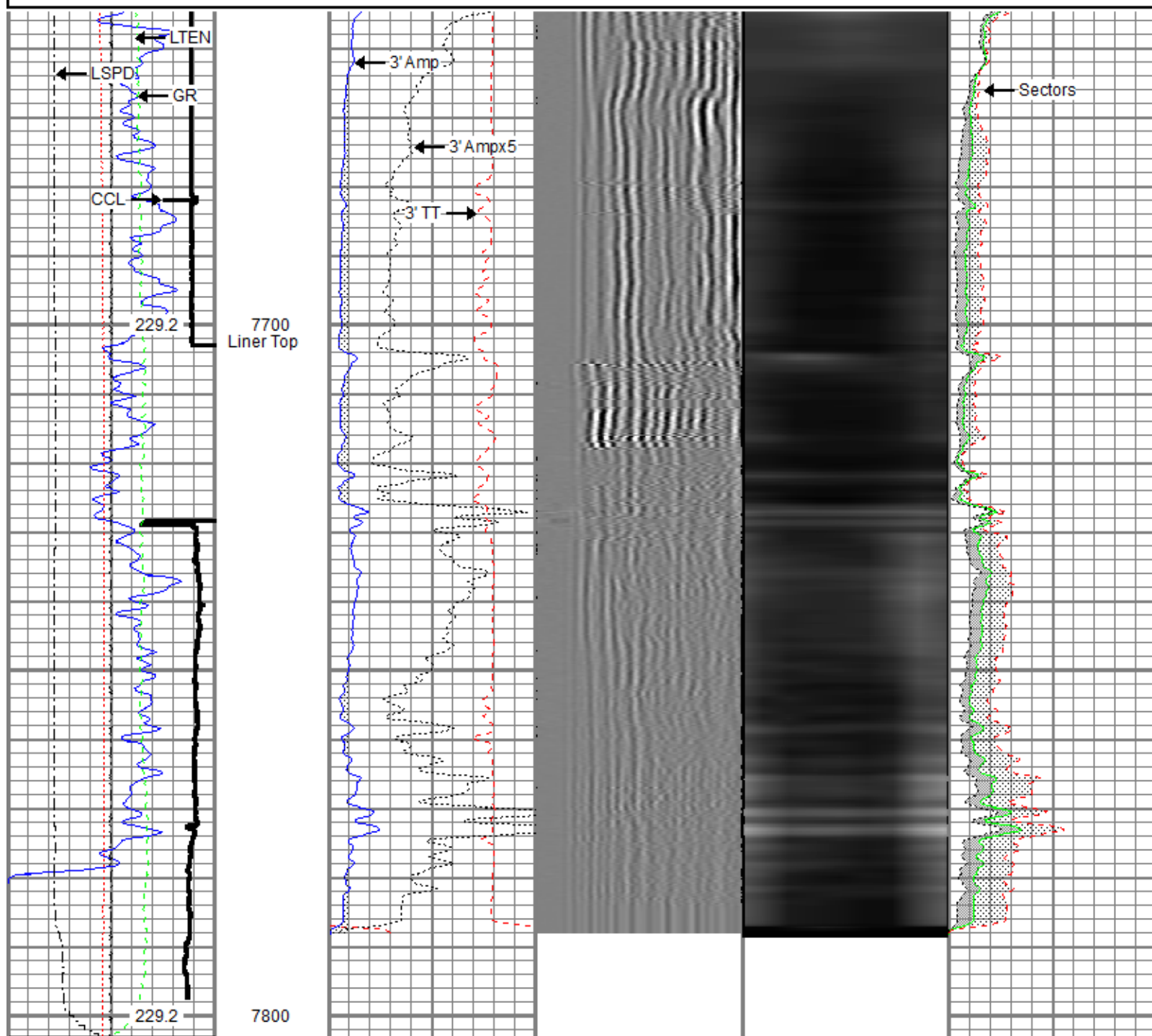







Database File: anadarko_taipan27c-15hz_rbl-mit_30-mar-2015.db
 Dataset Pathname: pass7
 Presentation Format: rbt4_mit
 Dataset Creation: Mon Mar 30 11:06:10 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

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



0	(GAPI)	120	3' Amplitude x 5	200	1200	MinimumAmplitude	
Casing Collar Locator			0	(mV)	20	0	100
Line Speed			3' Travel Time			MaximumAmplitude	
-100	(ft/min)	100	650	(usec)	150	0	100
0	Line Tension (lb)	2000					
Differential Temperature							
-2	(degF)	2					
0	Temperature (degF)	20					

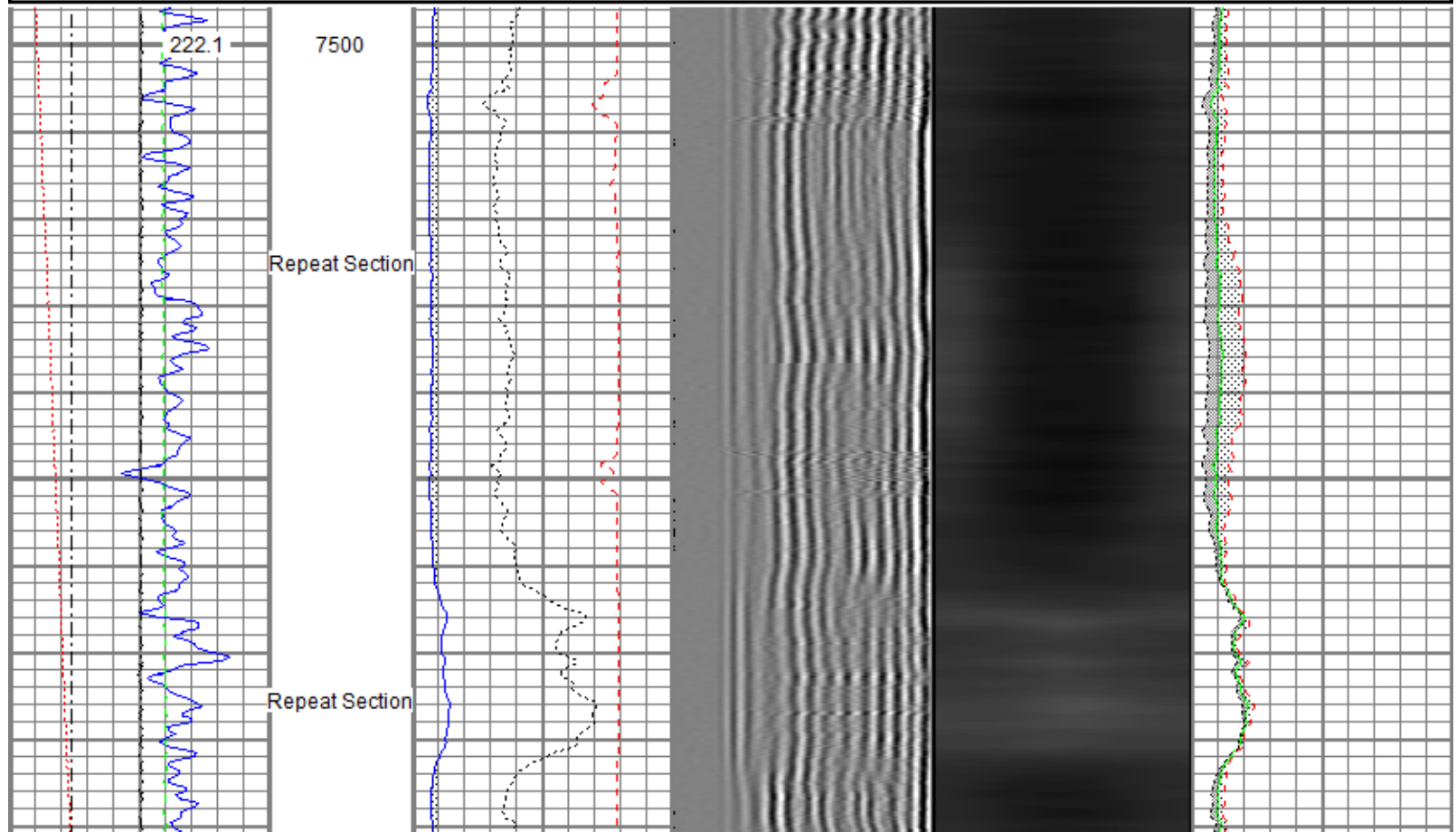


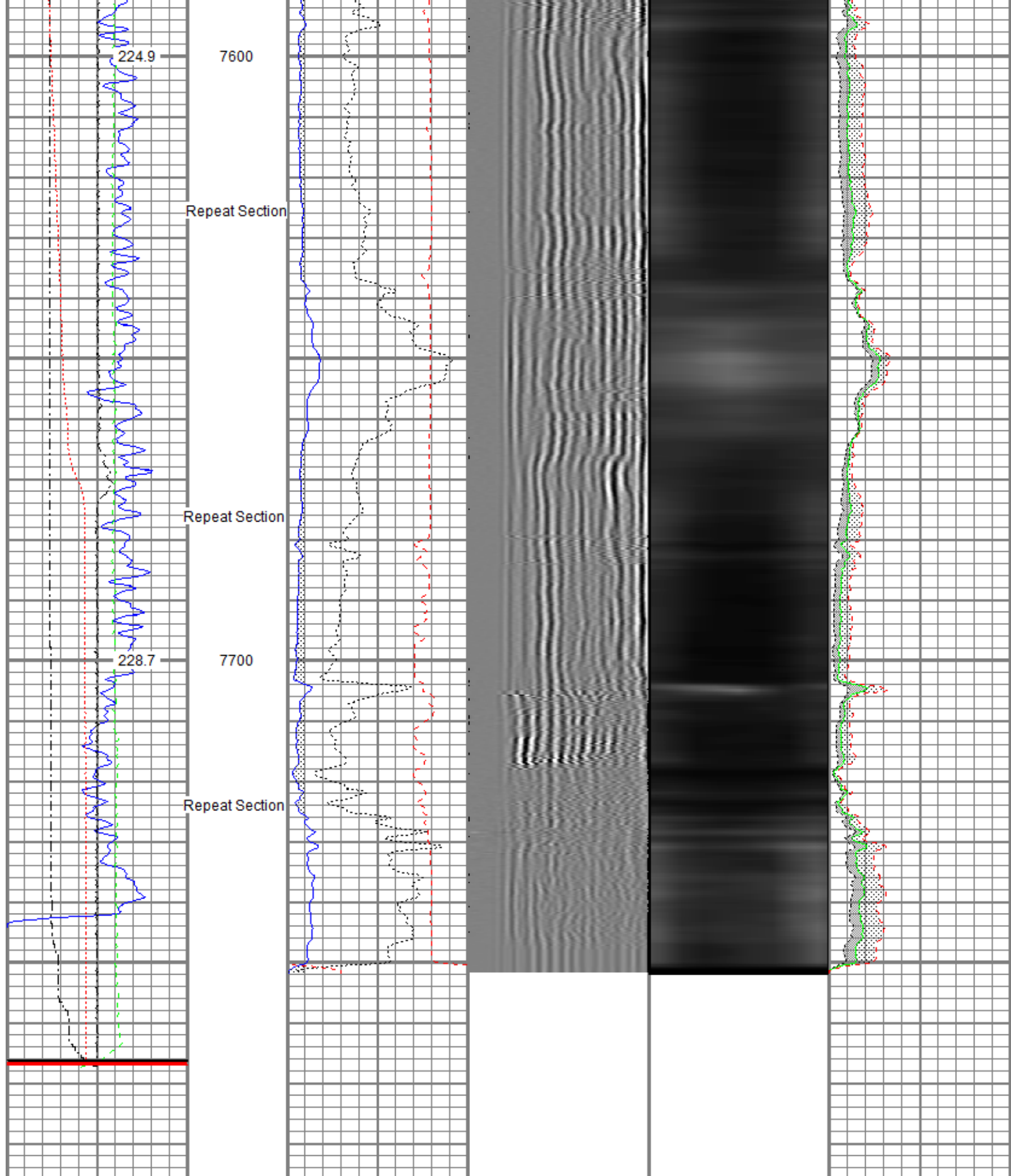
Repeat Pass

Recorded with 2800 surface induced pressure

Database File:	anadarko_taipan27c-15hz_rbl-mit_30-mar-2015.db
Dataset Pathname:	pass5
Presentation Format:	rbt4_mit
Dataset Creation:	Mon Mar 30 10:52:27 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

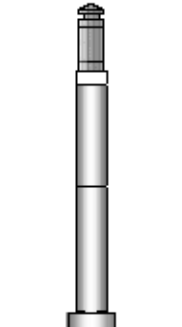
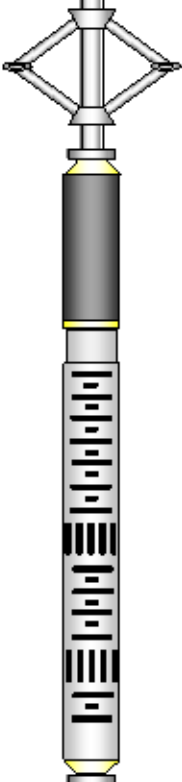
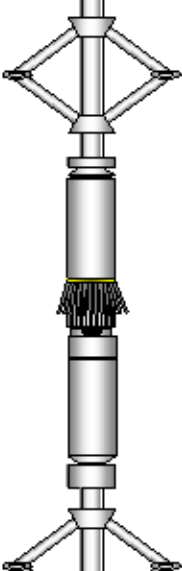
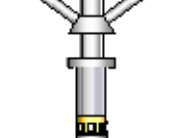
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
0	(GAPI)	120	3' Amplitude x 5	200	1200		MinimumAmplitude	
Line Speed			0	(mV)	20		0	100
-100	(ft/min)	100	3' Travel Time				MaximumAmplitude	
0	Line Tension (lb)	2000	650	(usec)	150		0	100
Differential Temperature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





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

-2	(degF)	2
0	Temperature (degF)	20

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	24.71		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 (10012277) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10019072) Production Gamma Ray	1.93	1.69	9.50
			UW_PRC #4 -UW_PRC_057 (1037) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
WVFS3FT	16.90		UW_RBT-UW_RBT_004 (1063) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS1	16.90					
WVFS2	16.90					
WVFS3	16.90					
WVFS4	16.90					
WVFS5	16.90					
WVFS6	16.90					
WVFS7	16.90					
WVFS8	16.90					
CBLTEMP	16.90					
CBLROT	16.90					
WVFS5FT	15.90					
MIT	6.45		UW_PRC-UW_PRC_057 (1038) 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
			UW_PRC-UW_PRC_057 (1101) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
TEMP	0.37		UW_PRT-UW_PRT_016 (10025097) Platinum Resistance Thermometer	1.04	1.69	5.20
TSTAMP	0.00		UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
ITEMPX	0.00					
HVOLT X	0.00					

Dataset: anadarko_taipan27c-15hz_rbl-mit_30-mar-2015.db: field/well/run1/pass9
 Total Length: 28.96 ft
 Total Weight: 324.50 lb
 O.D. 3.13 in

Calibration Report

Database File: anadarko_taipan27c-15hz_rbl-mit_30-mar-2015.db
 Dataset Pathname: pass10
 Dataset Creation: Mon Mar 30 14:06:23 2015 by Log 7.0 B1

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

	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: Mon Mar 30 10:04:22 2015

Ring size:	4	5	6	7
(in)	Sens	Sens	Sens	Sens
Finger 01:	1086 378.0	1464 384.0	1848 399.0	2247
Finger 02:	1042 381.0	1423 401.0	1824 424.0	2248
Finger 03:	1044 367.0	1411 389.0	1800 415.0	2215
Finger 04:	1015 379.0	1394 414.0	1808 437.0	2245
Finger 05:	1021 357.0	1378 386.0	1764 408.0	2172
Finger 06:	1034 370.0	1404 404.0	1808 423.0	2231
Finger 07:	1038 366.0	1404 395.0	1799 416.0	2215
Finger 08:	1007 366.0	1373 408.0	1781 432.0	2213
Finger 09:	1082 372.0	1454 398.0	1852 404.0	2256
Finger 10:	1070 373.0	1443 404.0	1847 416.0	2263
Finger 11:	1011 369.0	1380 404.0	1784 424.0	2208
Finger 12:	1114 368.0	1482 381.0	1863 388.0	2251
Finger 13:	1059 368.0	1427 400.0	1827 420.0	2247
Finger 14:	1026 384.0	1410 414.0	1824 435.0	2259
Finger 15:	994 382.0	1376 416.0	1792 437.0	2229

Finger 16:	1026	378.0	1404	404.0	1808	427.0	2235
Finger 17:	1071	377.0	1448	392.0	1840	405.0	2245
Finger 18:	1112	384.0	1496	393.0	1889	412.0	2301
Finger 19:	1056	391.0	1447	400.0	1847	418.0	2265
Finger 20:	984	392.0	1376	407.0	1783	433.0	2216
Finger 21:	1045	386.0	1431	390.0	1821	415.0	2236
Finger 22:	1053	400.0	1453	400.0	1853	419.0	2272
Finger 23:	1084	399.0	1483	394.0	1877	415.0	2292
Finger 24:	1047	368.0	1415	364.0	1779	387.0	2166
Finger 25:	1066	407.0	1473	398.0	1871	415.0	2286
Finger 26:	1014	389.0	1403	385.0	1788	412.0	2200
Finger 27:	1181	418.0	1599	393.0	1992	408.0	2400
Finger 28:	1059	385.0	1444	376.0	1820	407.0	2227
Finger 29:	1007	395.0	1402	390.0	1792	418.0	2210
Finger 30:	978	391.0	1369	390.0	1759	423.0	2182
Finger 31:	1200	424.0	1624	401.0	2025	416.0	2441
Finger 32:	994	389.0	1383	378.0	1761	401.0	2162
Finger 33:	1161	429.0	1590	411.0	2001	430.0	2431
Finger 34:	965	386.0	1351	386.0	1737	413.0	2150
Finger 35:	1115	412.0	1527	403.0	1930	425.0	2355
Finger 36:	1017	367.0	1384	368.0	1752	392.0	2144
Finger 37:	1066	393.0	1459	391.0	1850	416.0	2266
Finger 38:	1080	378.0	1458	378.0	1836	400.0	2236
Finger 39:	1059	364.0	1423	367.0	1790	389.0	2179
Finger 40:	985	390.0	1375	411.0	1786	440.0	2226

Post Survey Calibration Check								
Performed: Mon Mar 30 14:04:29 2015								
Ring size: (in)	4	Nom. wear	5	Nom. wear	6	Nom. wear	7	Nom. wear
Finger 01:	3.989	-0.006	5.002	0.001	6.004	0.002	7.006	0.003
Finger 02:	3.989	-0.005	5.006	0.003	6.009	0.005	7.007	0.003
Finger 03:	3.987	-0.007	5.004	0.002	6.001	0.001	7.005	0.002
Finger 04:	3.974	-0.013	4.991	-0.005	5.989	-0.006	6.989	-0.005
Finger 05:	3.990	-0.005	5.006	0.003	6.001	0.001	7.000	0.000
Finger 06:	3.989	-0.006	5.006	0.003	6.002	0.001	6.998	-0.001
Finger 07:	3.989	-0.005	5.006	0.003	6.003	0.002	6.997	-0.001
Finger 08:	3.987	-0.007	5.004	0.002	6.002	0.001	7.002	0.001
Finger 09:	3.979	-0.011	4.997	-0.001	5.997	-0.001	6.998	-0.001
Finger 10:	3.984	-0.008	5.000	0.000	6.001	0.000	7.002	0.001
Finger 11:	3.986	-0.007	5.004	0.002	6.003	0.002	7.001	0.000
Finger 12:	3.982	-0.009	4.997	-0.001	6.000	0.000	7.006	0.003
Finger 13:	3.983	-0.009	5.001	0.000	6.001	0.000	7.005	0.002
Finger 14:	3.988	-0.006	5.002	0.001	6.003	0.002	7.001	0.000
Finger 15:	3.985	-0.008	5.008	0.004	6.005	0.003	7.008	0.004
Finger 16:	3.989	-0.005	5.007	0.003	6.007	0.003	7.002	0.001
Finger 17:	3.980	-0.010	4.998	-0.001	5.996	-0.002	6.999	-0.001
Finger 18:	3.982	-0.009	4.998	-0.001	6.000	-0.000	7.005	0.002
Finger 19:	3.988	-0.006	5.004	0.002	6.001	0.001	7.001	0.000
Finger 20:	3.986	-0.007	5.000	0.000	6.003	0.001	6.999	-0.000
Finger 21:	3.988	-0.006	5.001	0.000	6.001	0.001	7.001	0.001
Finger 22:	3.993	-0.003	5.006	0.003	6.002	0.001	6.996	-0.002
Finger 23:	3.988	-0.006	5.007	0.003	6.004	0.002	7.005	0.002
Finger 24:	3.980	-0.010	4.996	-0.002	5.998	-0.001	7.000	0.000
Finger 25:	3.989	-0.006	5.004	0.002	6.001	0.001	7.004	0.002
Finger 26:	3.990	-0.005	5.007	0.003	6.003	0.001	7.002	0.001
Finger 27:	3.982	-0.009	4.999	-0.001	5.999	-0.000	6.998	-0.001
Finger 28:	3.981	-0.009	5.001	0.000	6.003	0.002	7.004	0.002
Finger 29:	3.981	-0.009	5.000	0.000	5.995	-0.002	6.995	-0.003
Finger 30:	3.984	-0.008	5.002	0.001	6.006	0.003	7.003	0.001
Finger 31:	3.982	-0.009	4.996	-0.002	5.997	-0.002	7.000	-0.000
Finger 32:	3.983	-0.009	5.000	0.000	5.999	-0.000	6.999	-0.001
Finger 33:	3.984	-0.008	5.006	0.003	6.008	0.004	7.007	0.003
Finger 34:	3.989	-0.006	5.006	0.003	5.999	-0.000	7.002	0.001
Finger 35:	3.993	-0.003	5.004	0.002	6.002	0.001	6.998	-0.001
Finger 36:	3.982	-0.009	5.004	0.002	6.001	0.001	7.005	0.002
Finger 37:	3.988	-0.006	5.003	0.001	6.001	0.001	6.999	-0.001
Finger 38:	3.984	-0.008	5.002	0.001	6.005	0.003	7.005	0.003
Finger 39:	3.989	-0.005	5.001	0.001	6.004	0.002	7.006	0.003
Finger 40:	3.981	-0.010	4.997	-0.001	5.995	-0.002	6.998	-0.001
Average:	3.985	-0.007	5.002	0.001	6.001	0.001	7.001	0.001

Segmented Cement Bond Log Calibration Report

Serial Number: 1063
Tool Model: UW_RBT_004
Calibration Casing Diameter: 7.000 in
Calibration Depth: -61.481 ft

Master Calibration, performed Mon Mar 30 10:06:41 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.003	0.693	0.800	62.165	88.169	1.043
5FT	-0.006	0.717	0.800	62.165	84.922	1.318
S1	-0.004	0.704	0.000	100.000	141.405	0.518
S2	-0.004	0.720	0.000	100.000	138.180	0.506
S3	-0.004	0.716	0.000	100.000	138.878	0.509
S4	-0.004	0.723	0.000	100.000	137.621	0.514
S5	-0.002	0.702	0.000	100.000	141.966	0.331
S6	-0.003	0.681	0.000	100.000	146.216	0.389
S7	-0.002	0.677	0.000	100.000	147.153	0.359
S8	-0.003	0.679	0.000	100.000	146.679	0.367

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, L.P.
Well Taipan 27C-15HZ
Field Wattenberg
County Weld
State Colorado