

Radial Cement Bond Gamma Ray Casing Collar Log

Company	Synergy Resources Corporation	Company	Synergy Resources Corporation
Well	SRC Cannon K-16CHZ	Well	SRC Cannon K-16CHZ
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:	API # : 05-123-40786	Other Services	MIT
Permanent Datum	SEC 16 TWP 4N RGE 68W	Elevation	
Log Measured From	Ground Level Kelly Bushing	Elevation	4932'
Drilling Measured From	Kelly Bushing	Elevation	4945'
		Elevation	4944'
		Elevation	4932'

Date	01-JUN-2015
Run Number	One
Depth Driller	---
Depth Logger	6330 FT
Bottom Logged Interval	6325 FT
Top Log Interval	Surface
Open Hole Size	---
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	195° F
Estimated Cement Top	Surface
Time Well Ready	ROA
Time Logger on Bottom	10:00 a.m.
Equipment Number	HD-0343
Location	Ft. Lupton, CO
Recorded By	Zach Fisher
Witnessed By	Terry Dewey

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size (in)	Wgt (lbs/ft)	Grade	Top	Bottom		
Surface Casing	9 5/8	---	---	Surface	---		
Intermediate #1	7	29	---	Surface	---		
Intermediate #2							
Liner	4 1/2	13.5	P-110	6286 FT	---		

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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.

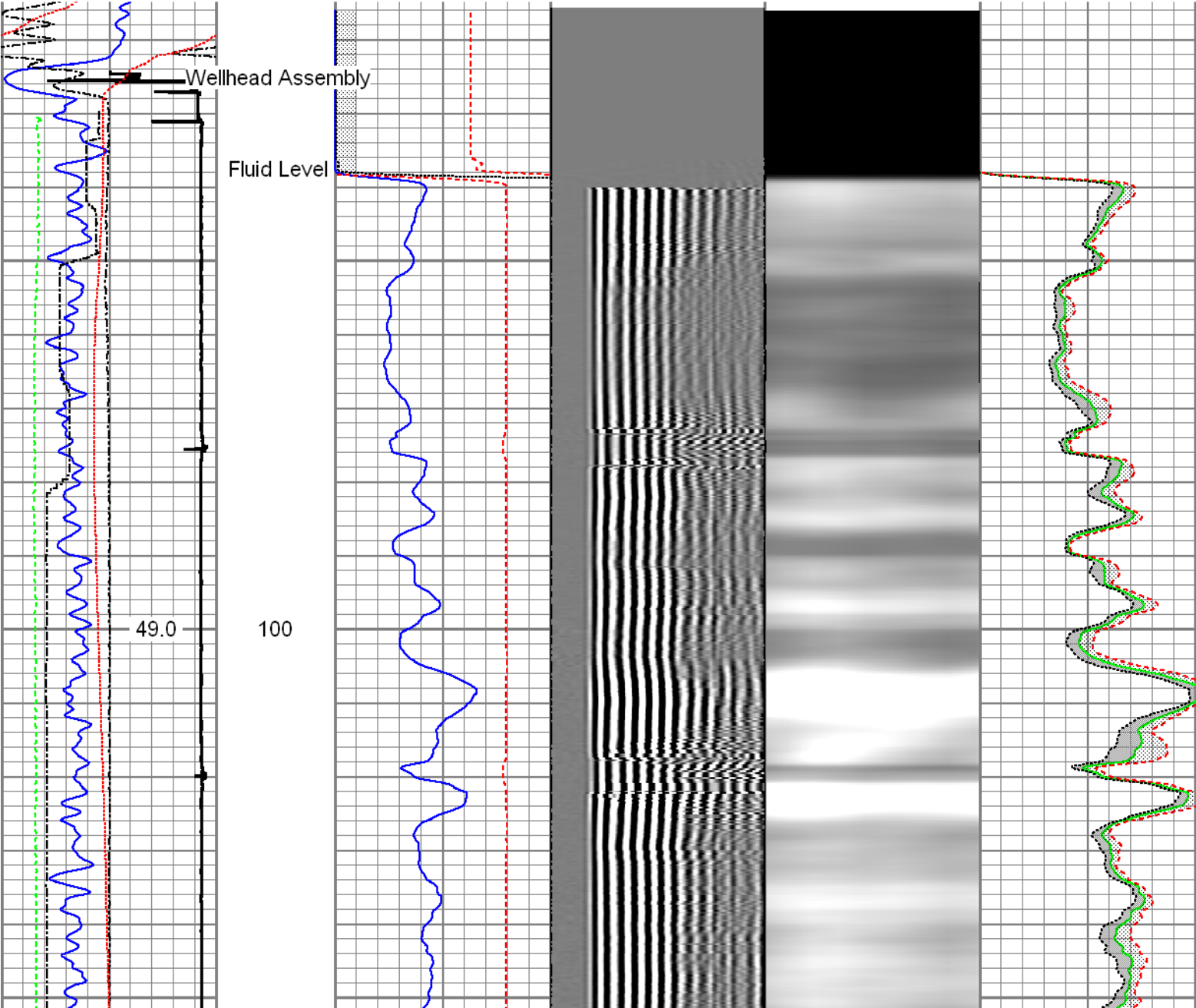
Comments

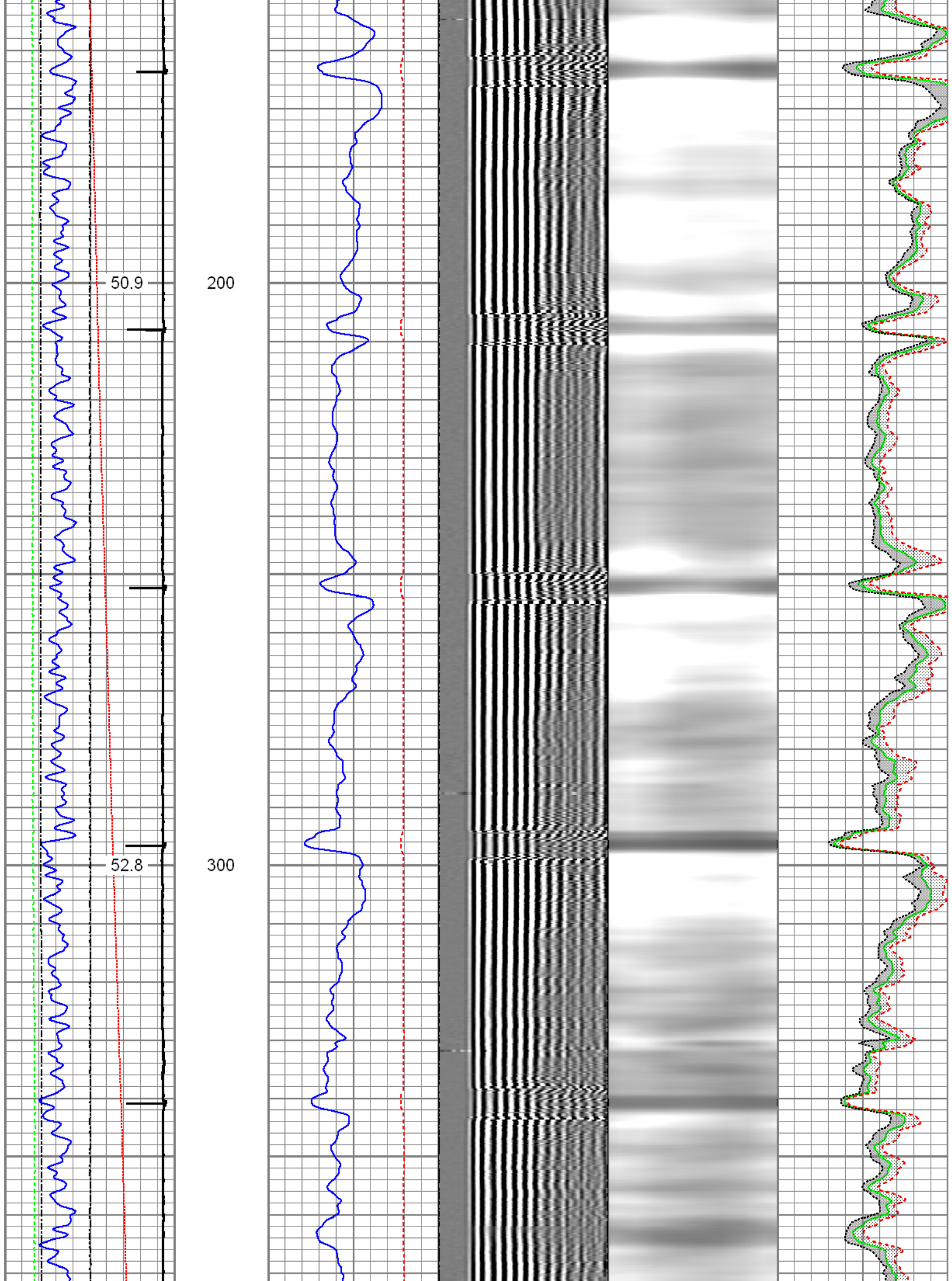
Log ran as per customer request
Depth referenced to casing tally reported liner top at 6286 FT
Adjusted log +15 FT to correlate with liner top.
Log ran from just below liner top to surface

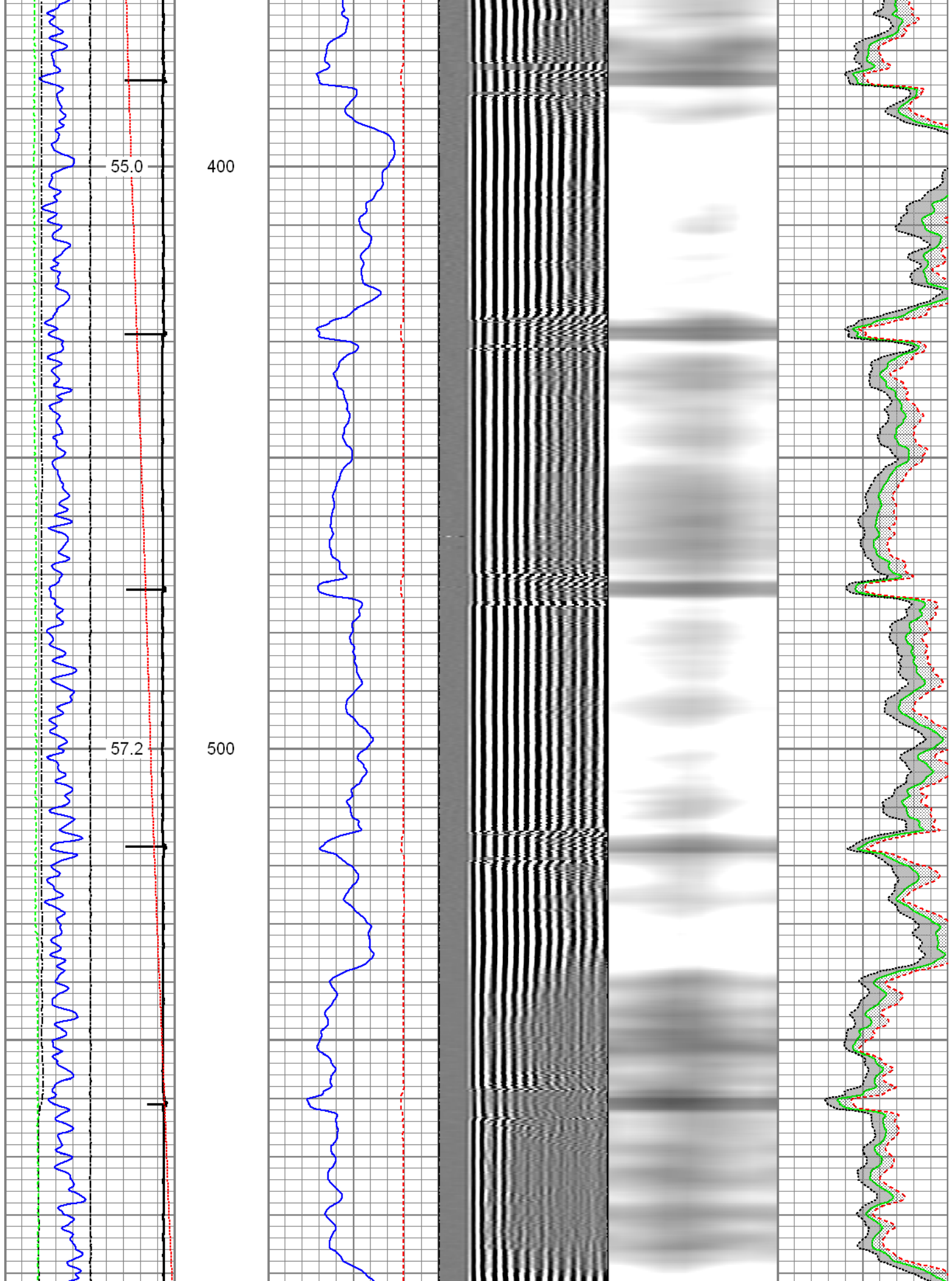
Thank you for choosing FMC Technologies Completion Services, Inc.!!!

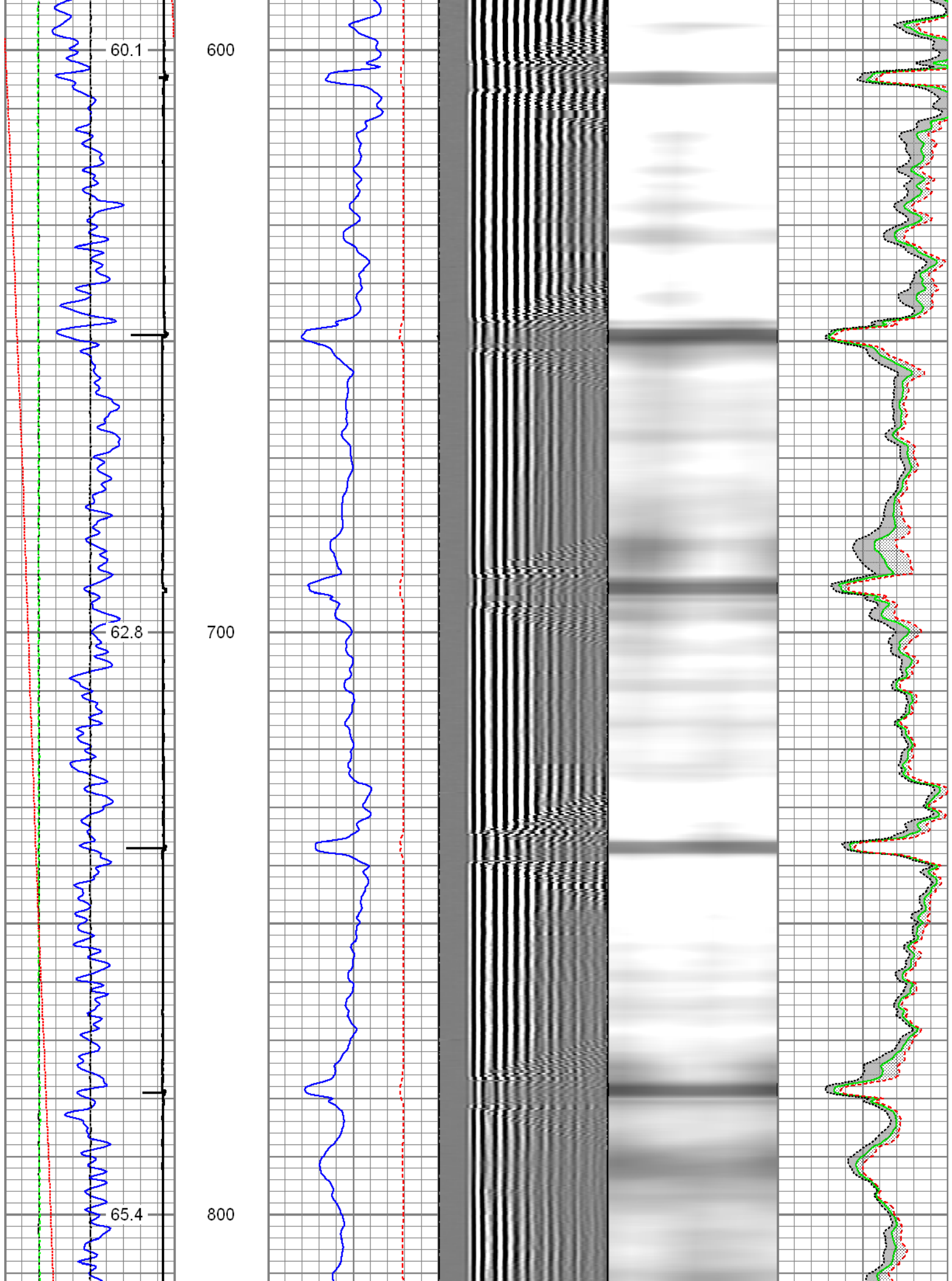
Database File: 06-01-15_synergy_src cannon k-16chz_mit_rbl.db
Dataset Pathname: MainPass3
Presentation Format: rbt4_mit
Dataset Creation: Mon Jun 01 10:30:02 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

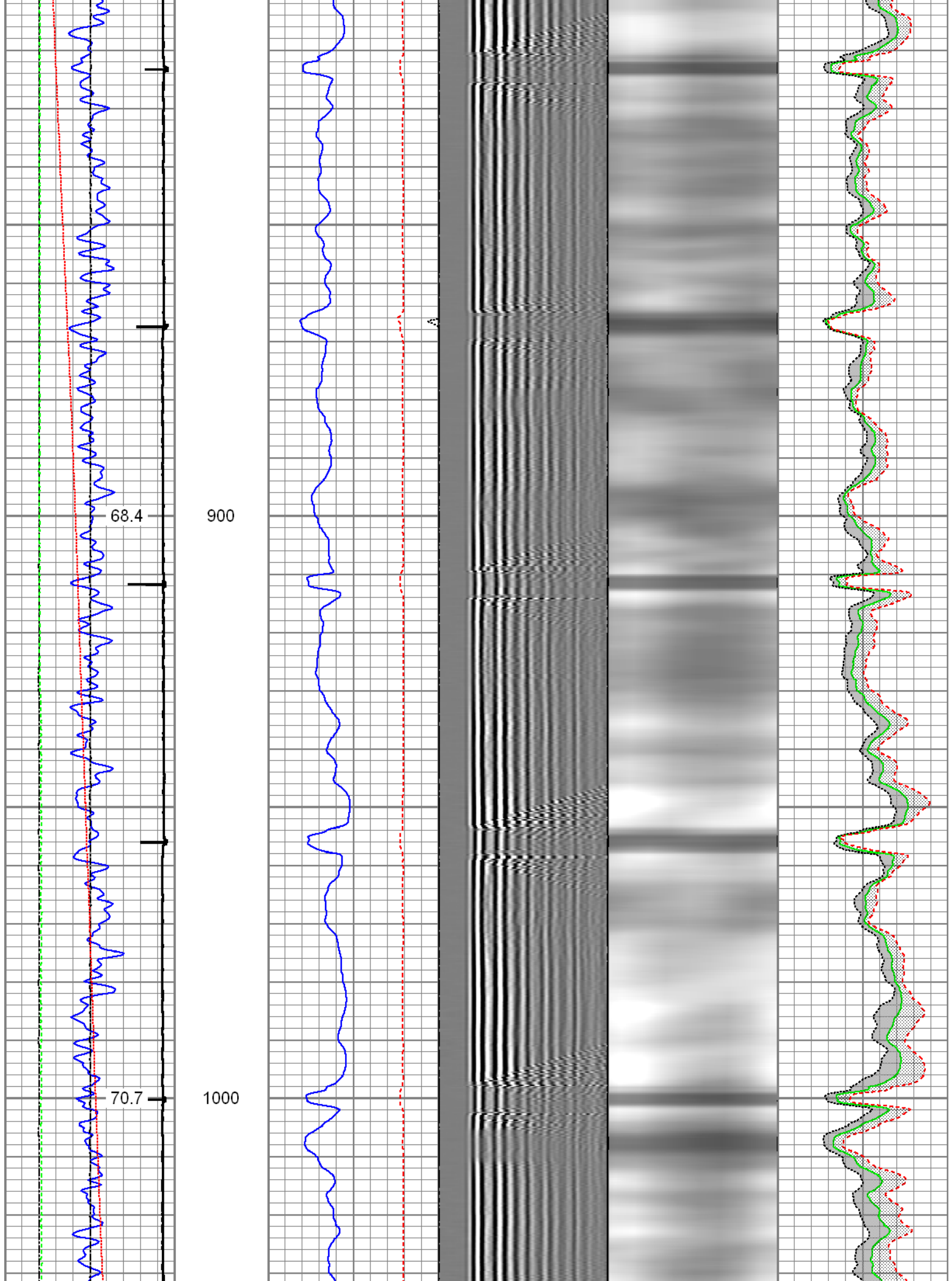
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000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

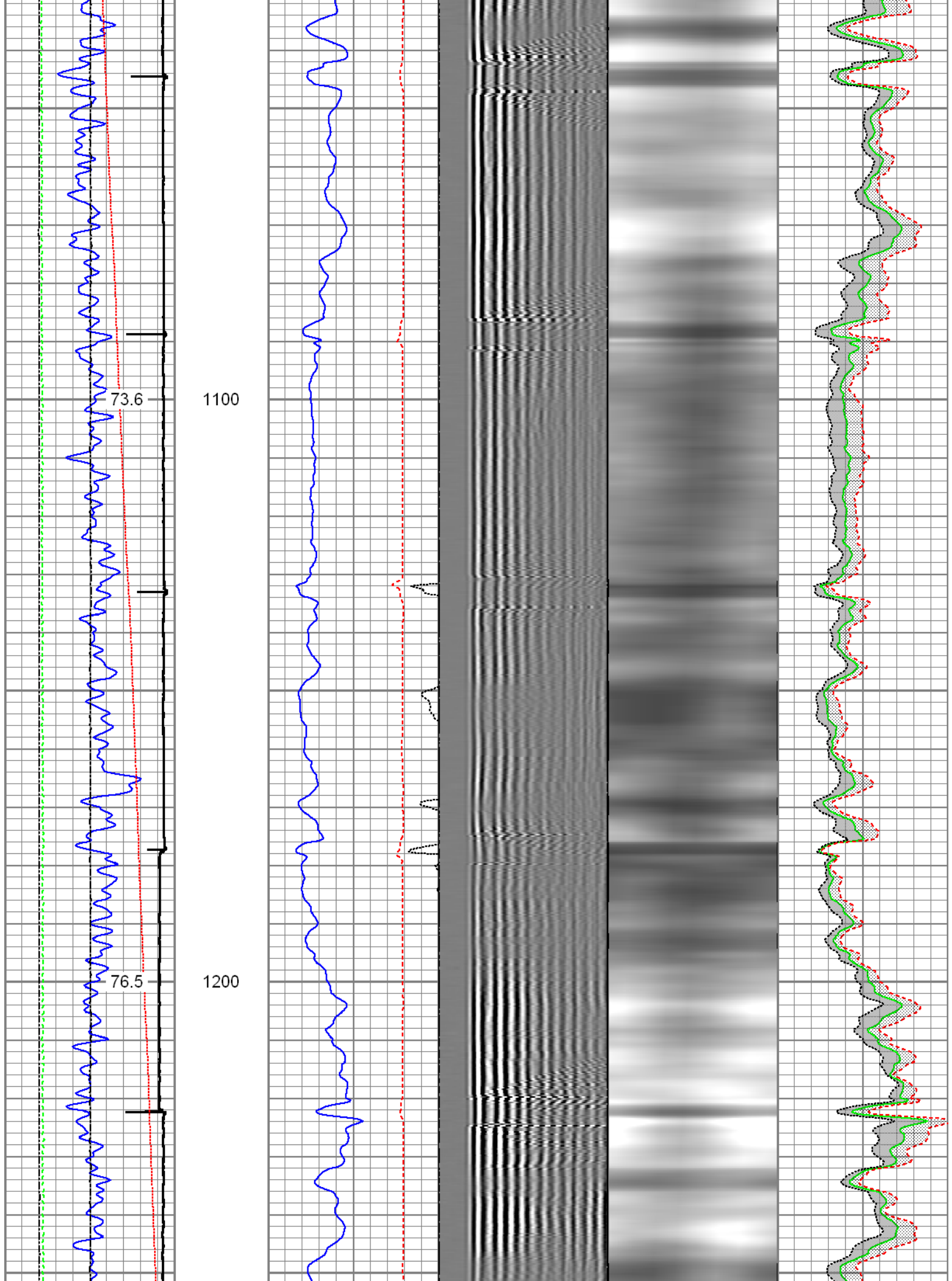


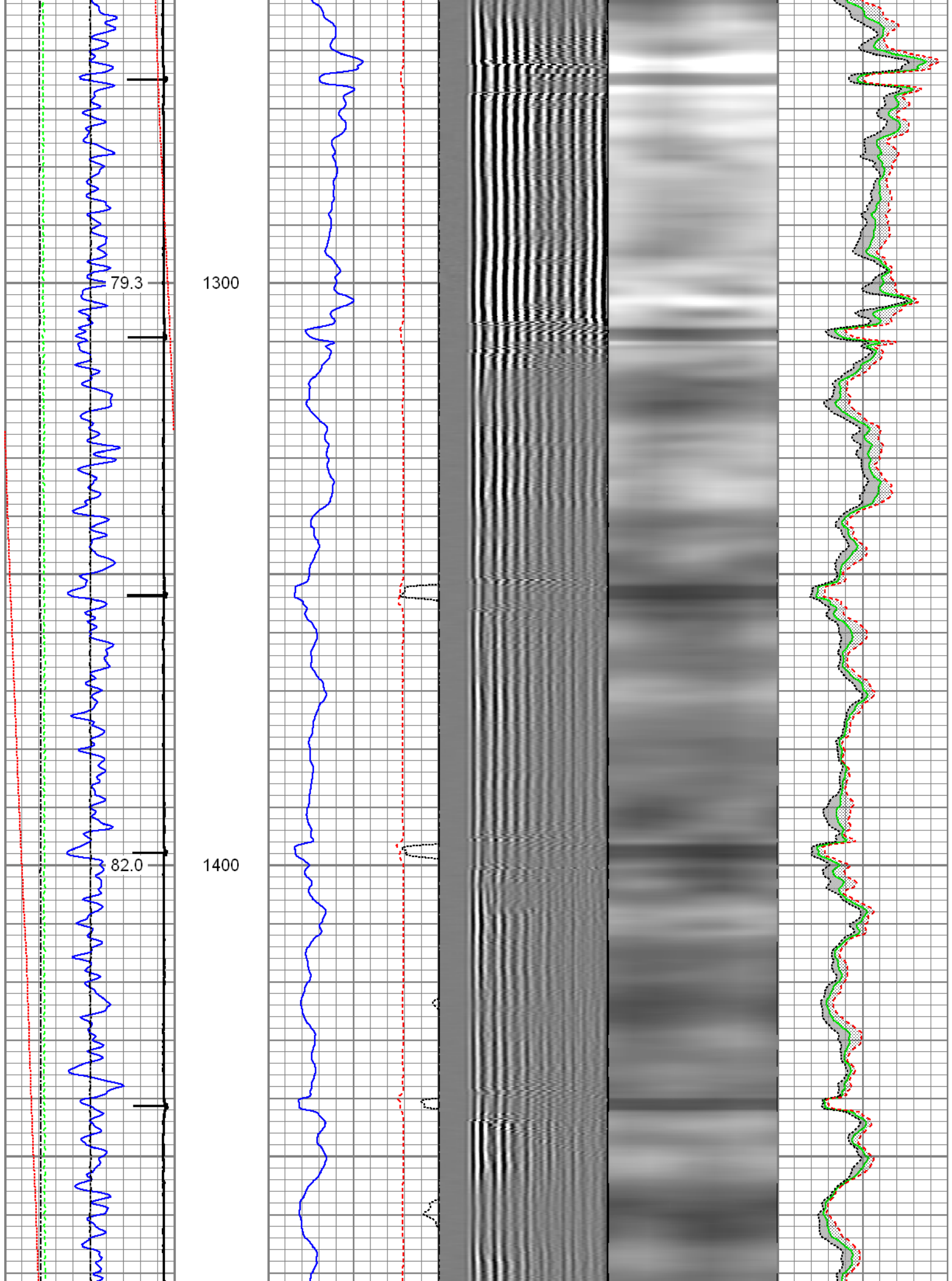


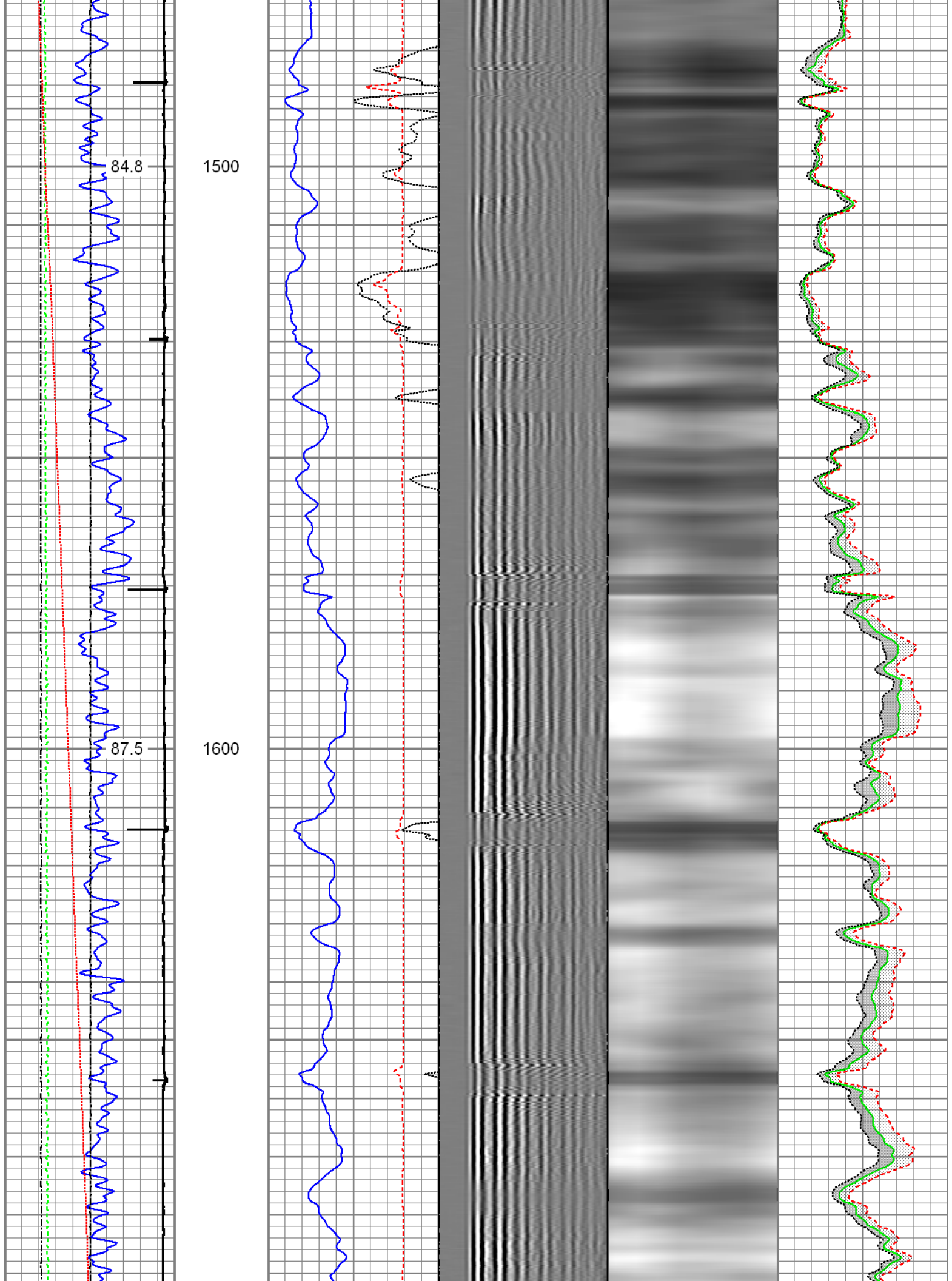


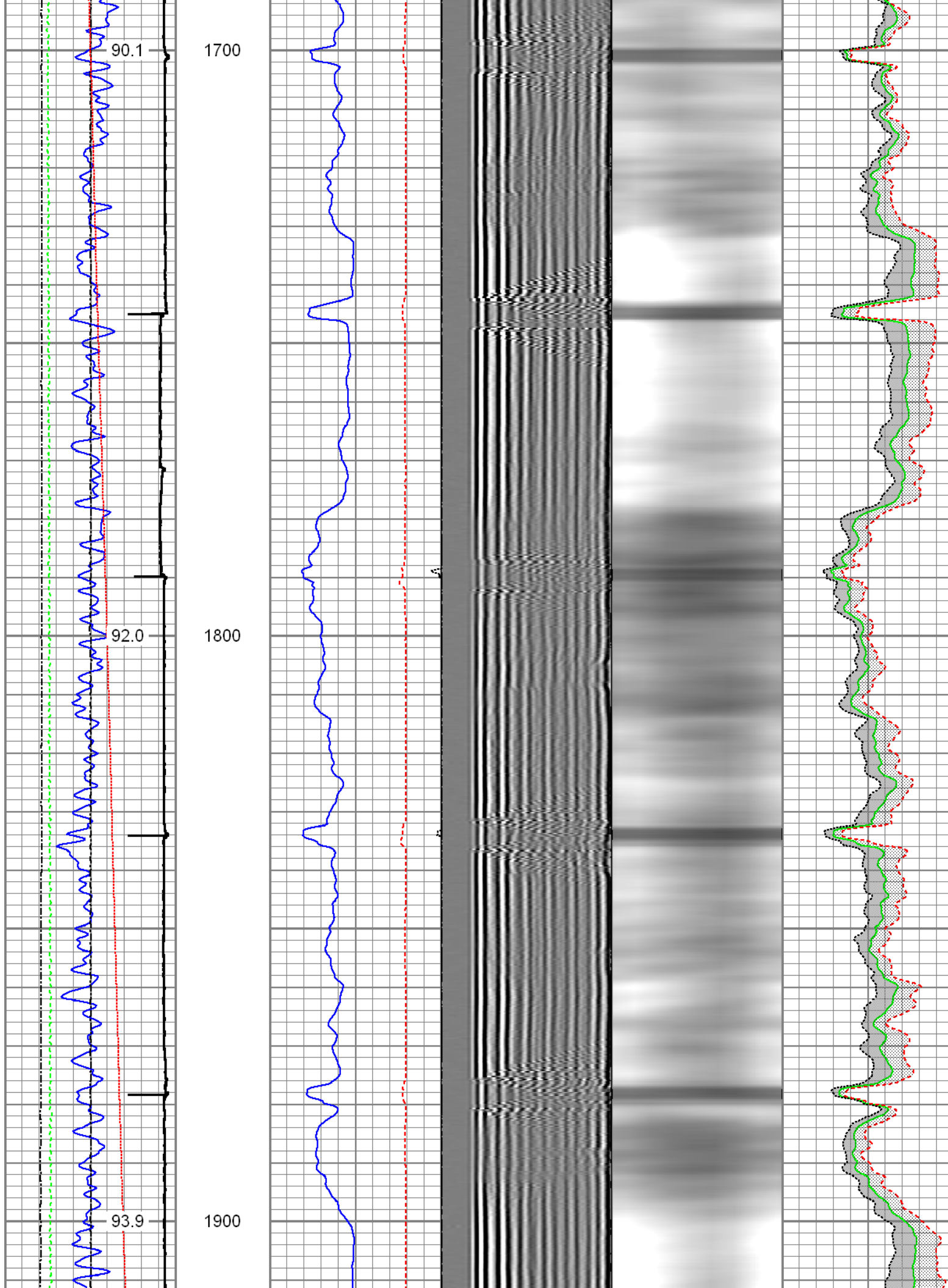


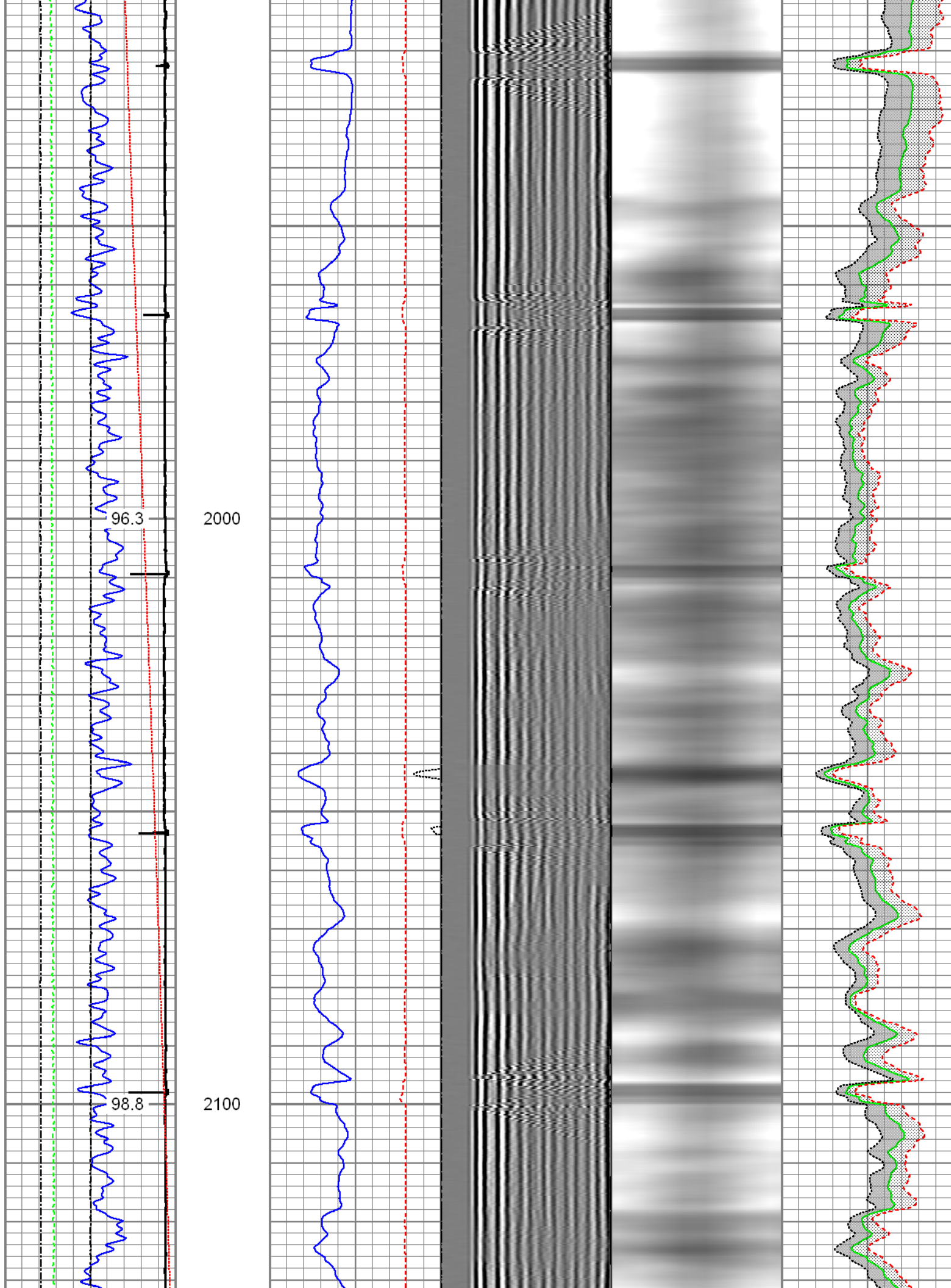


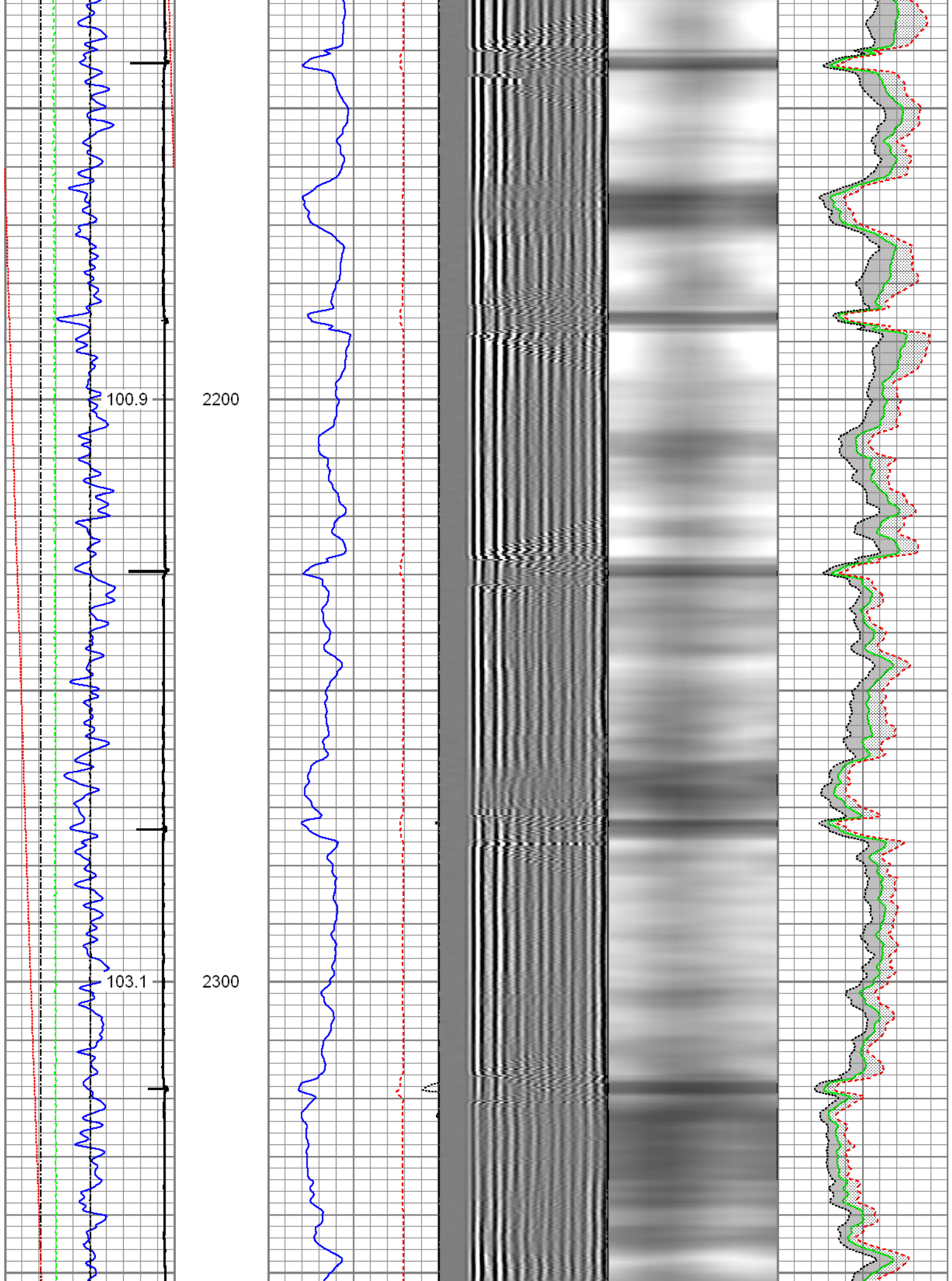


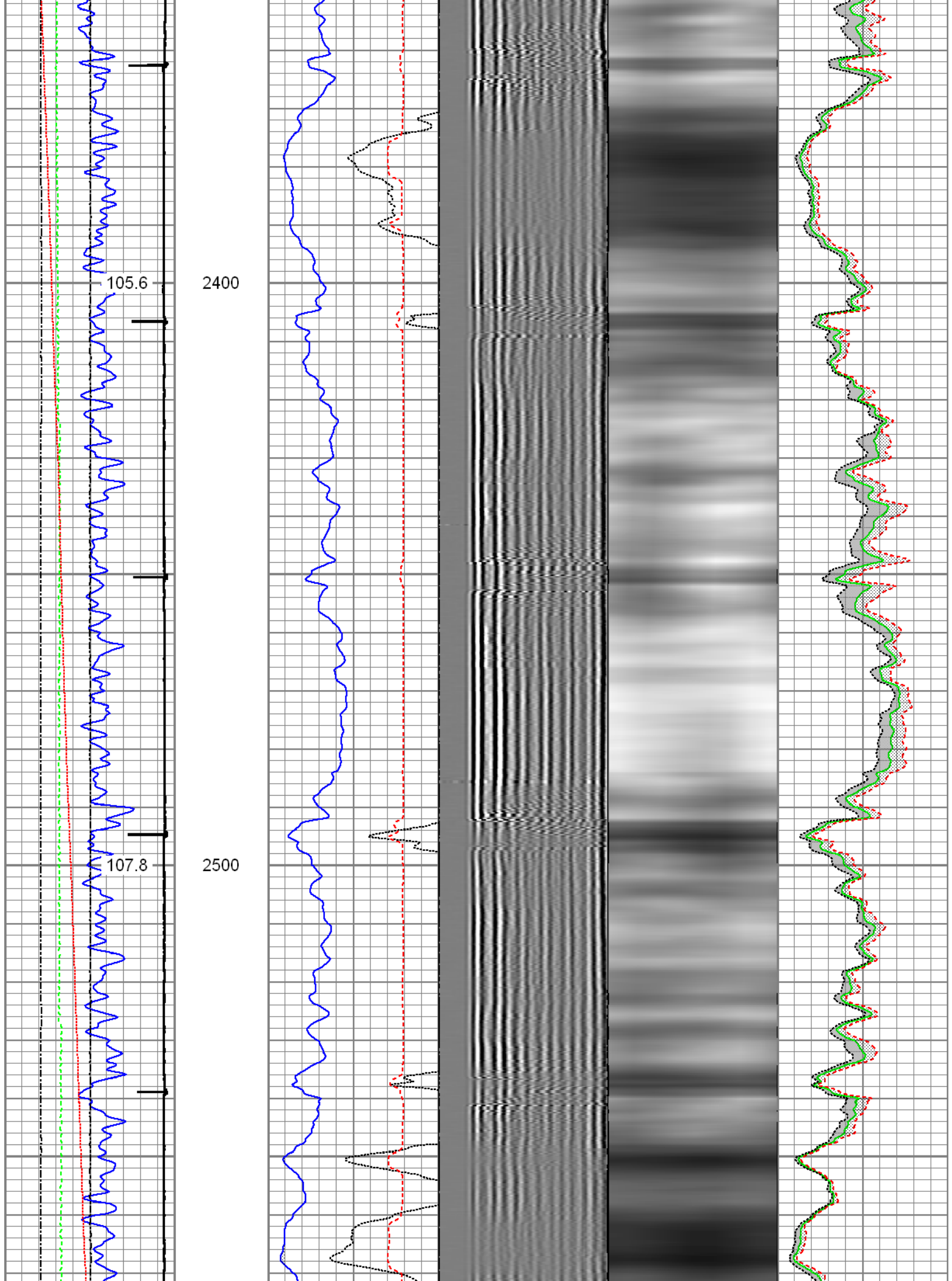


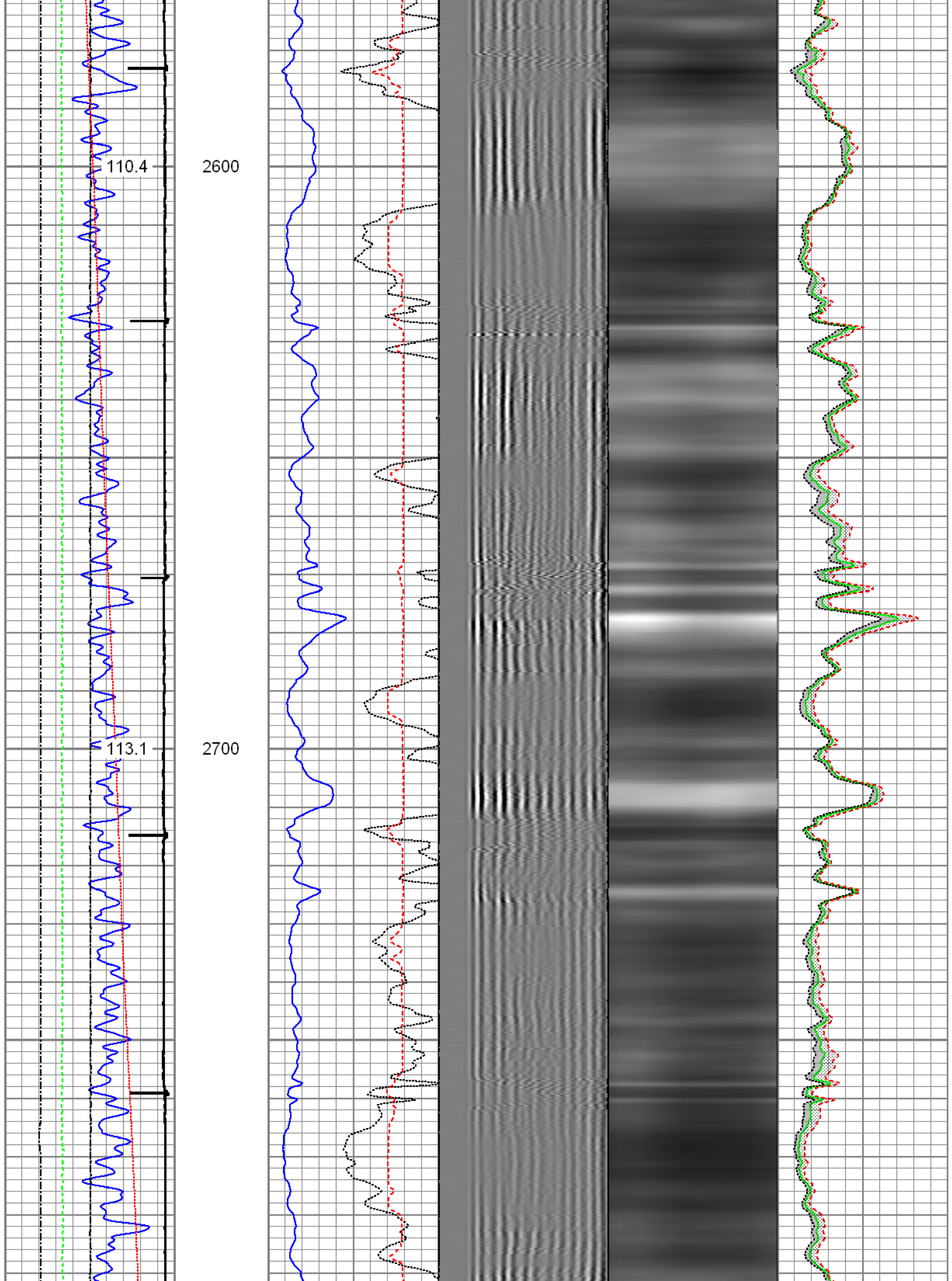


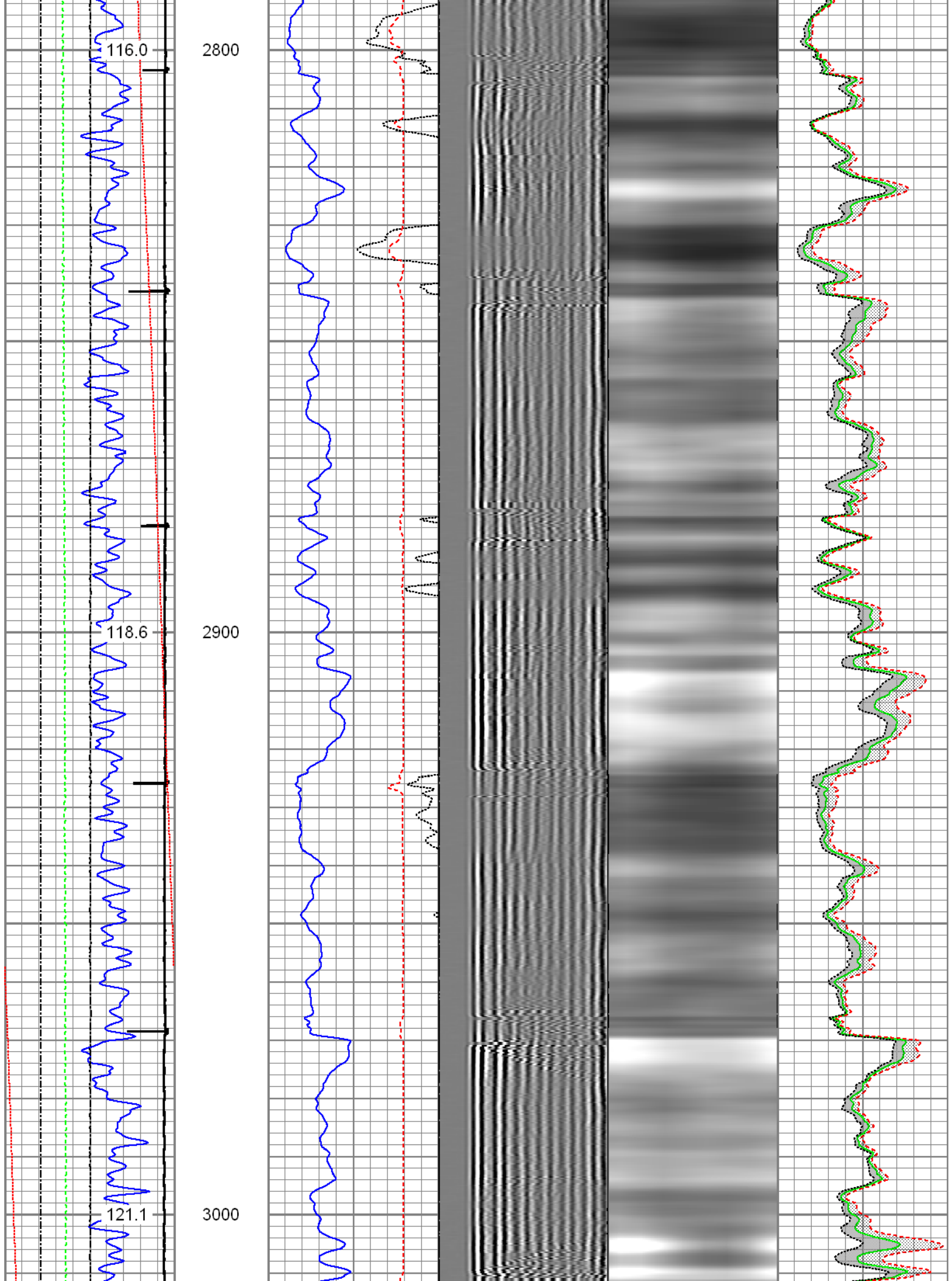


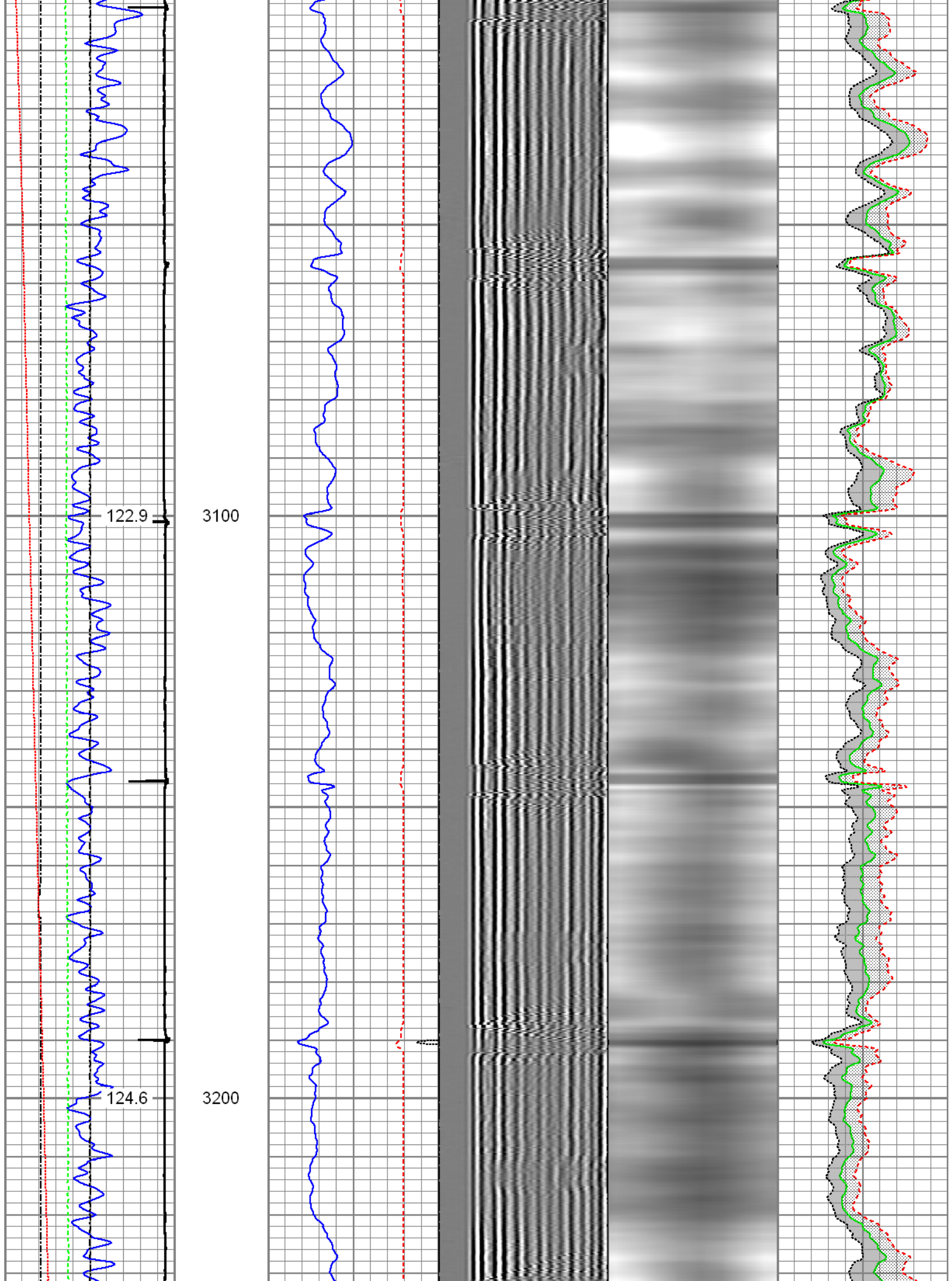


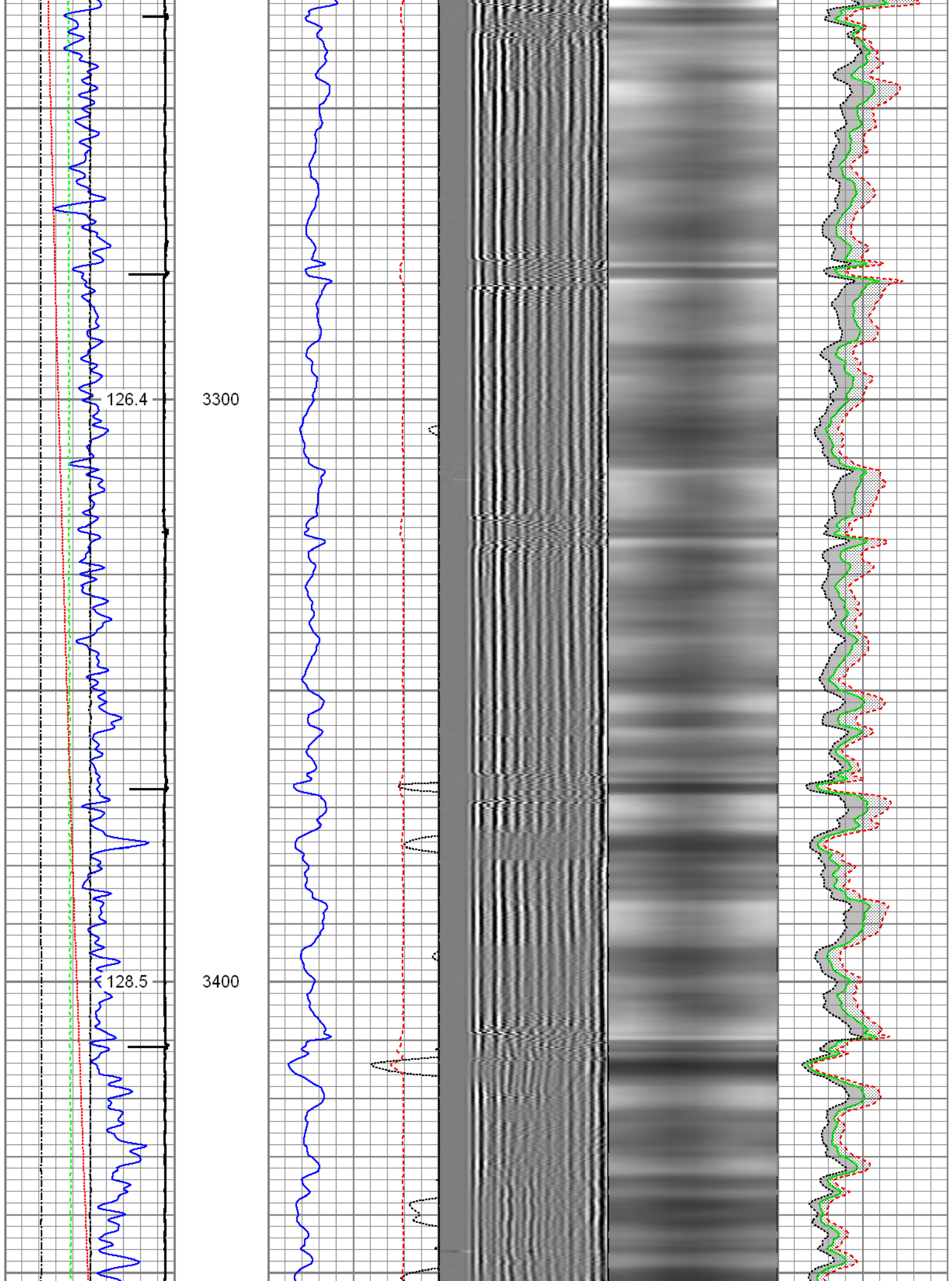


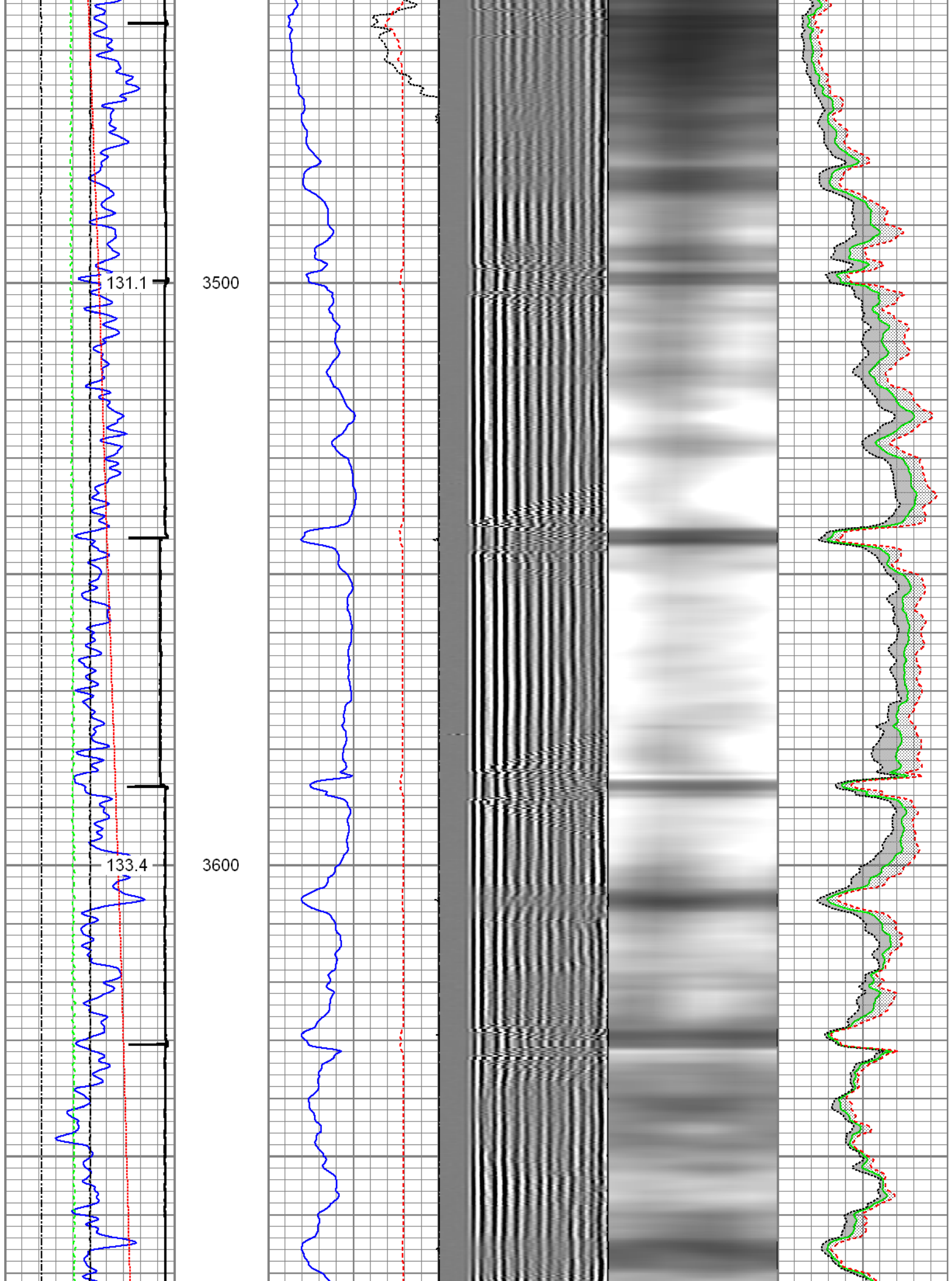


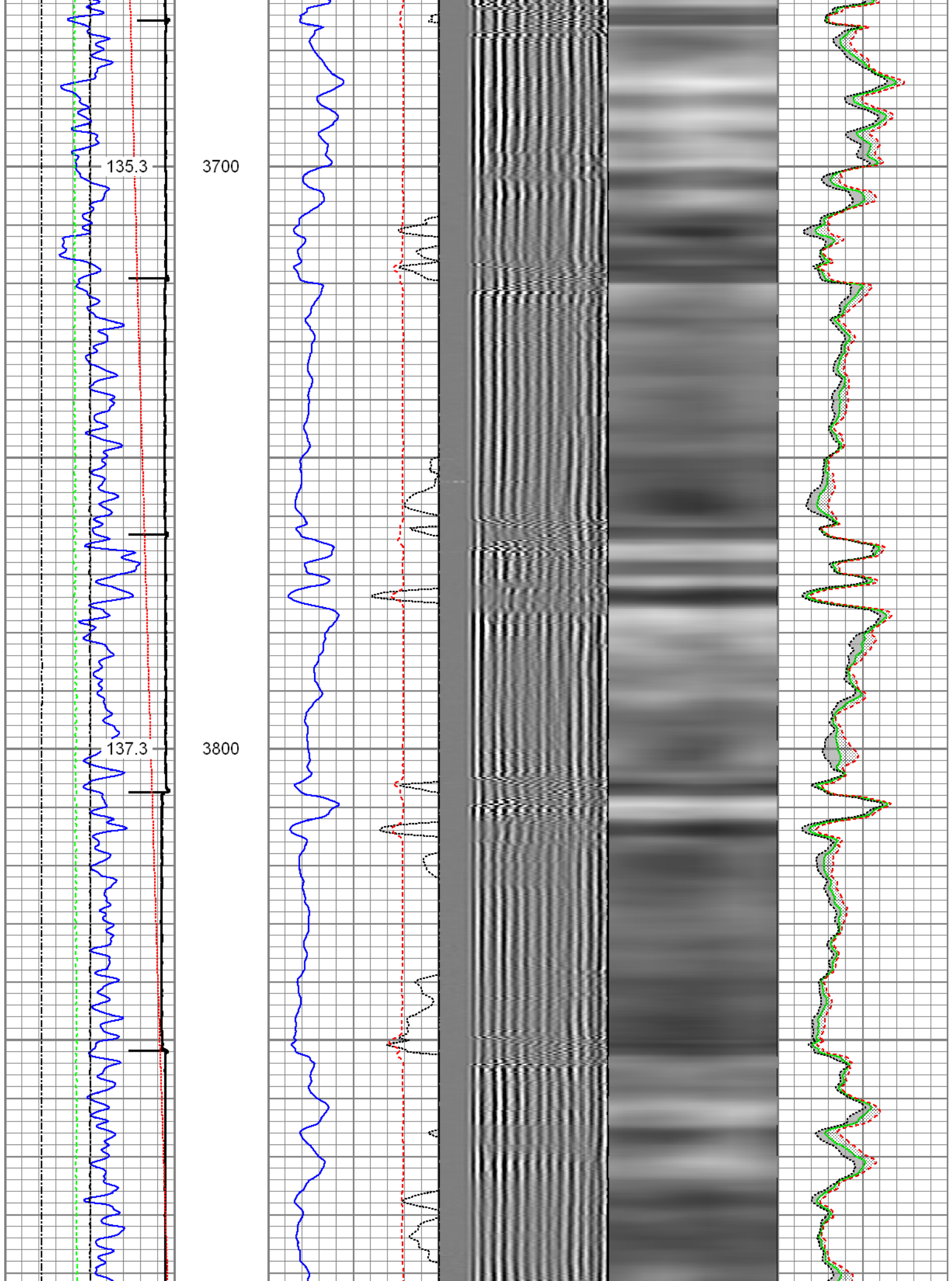


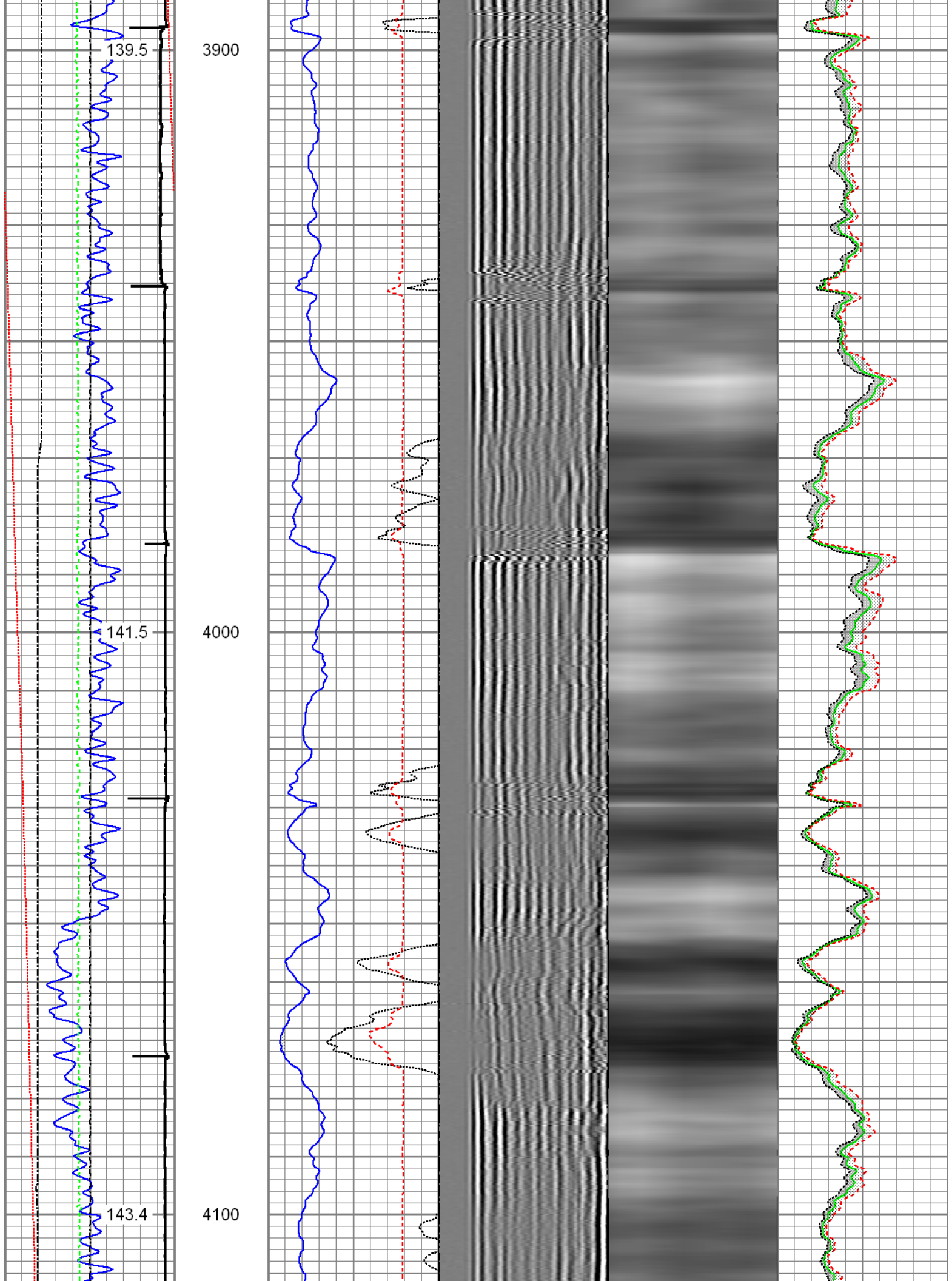


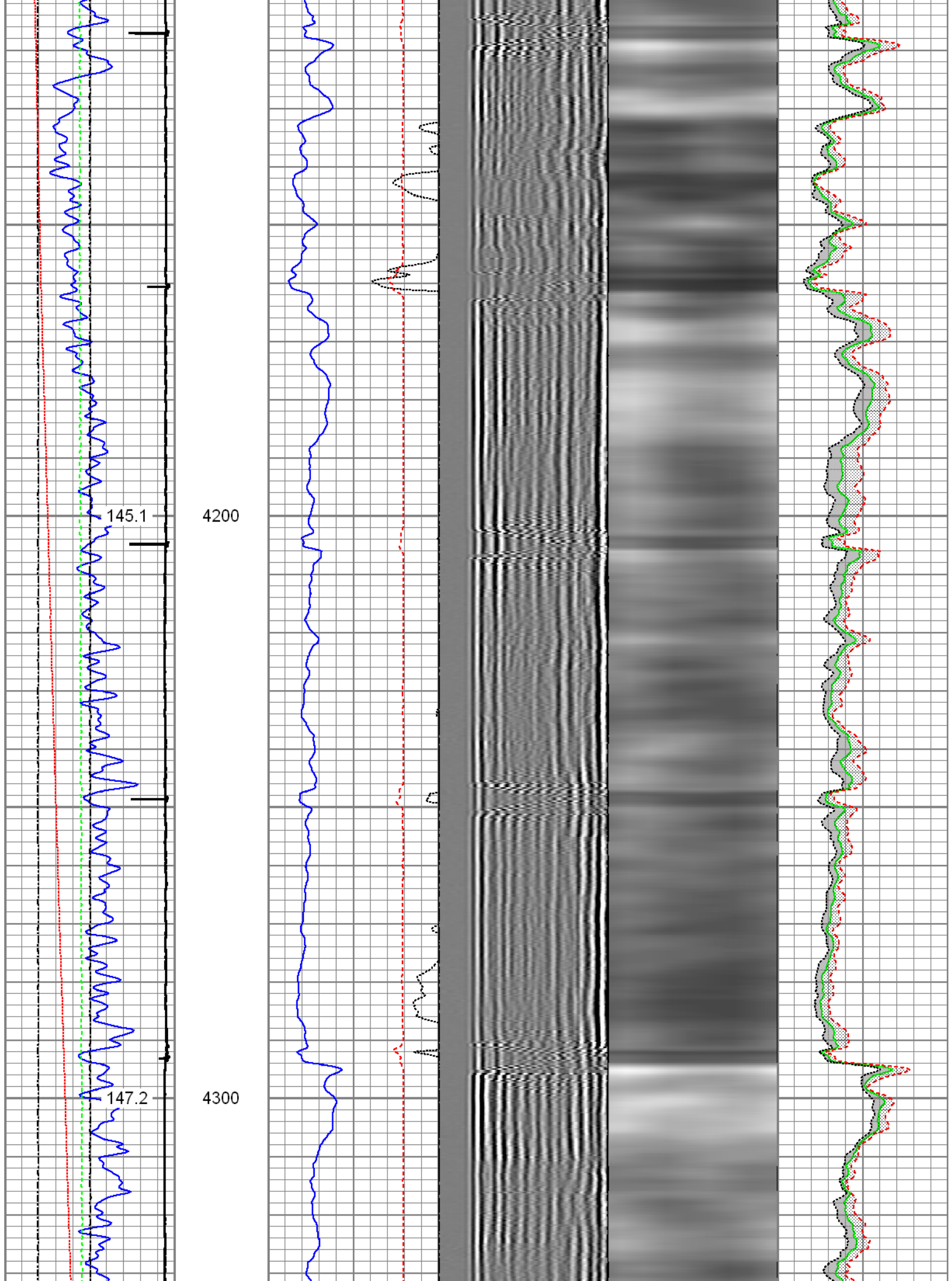


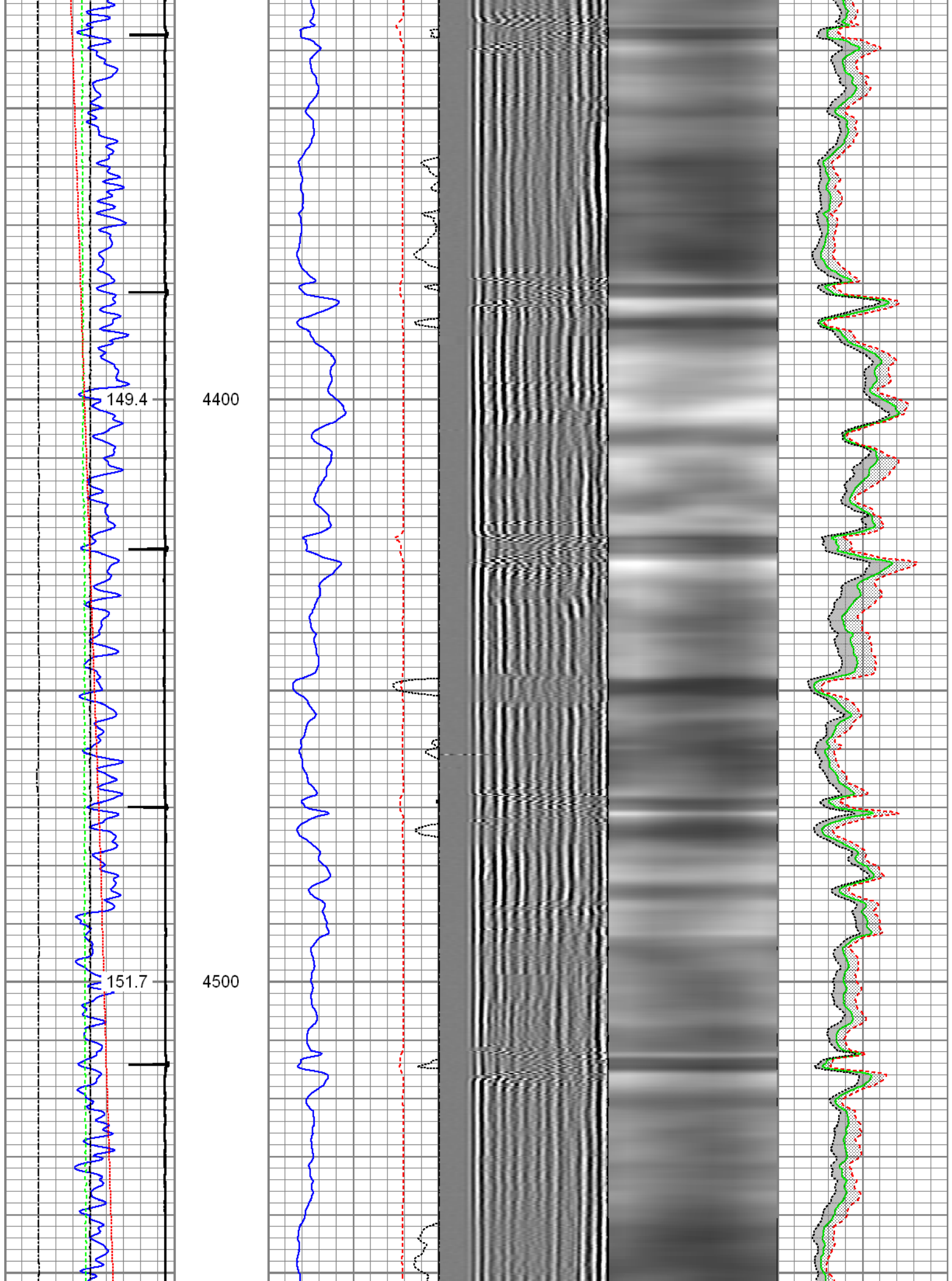


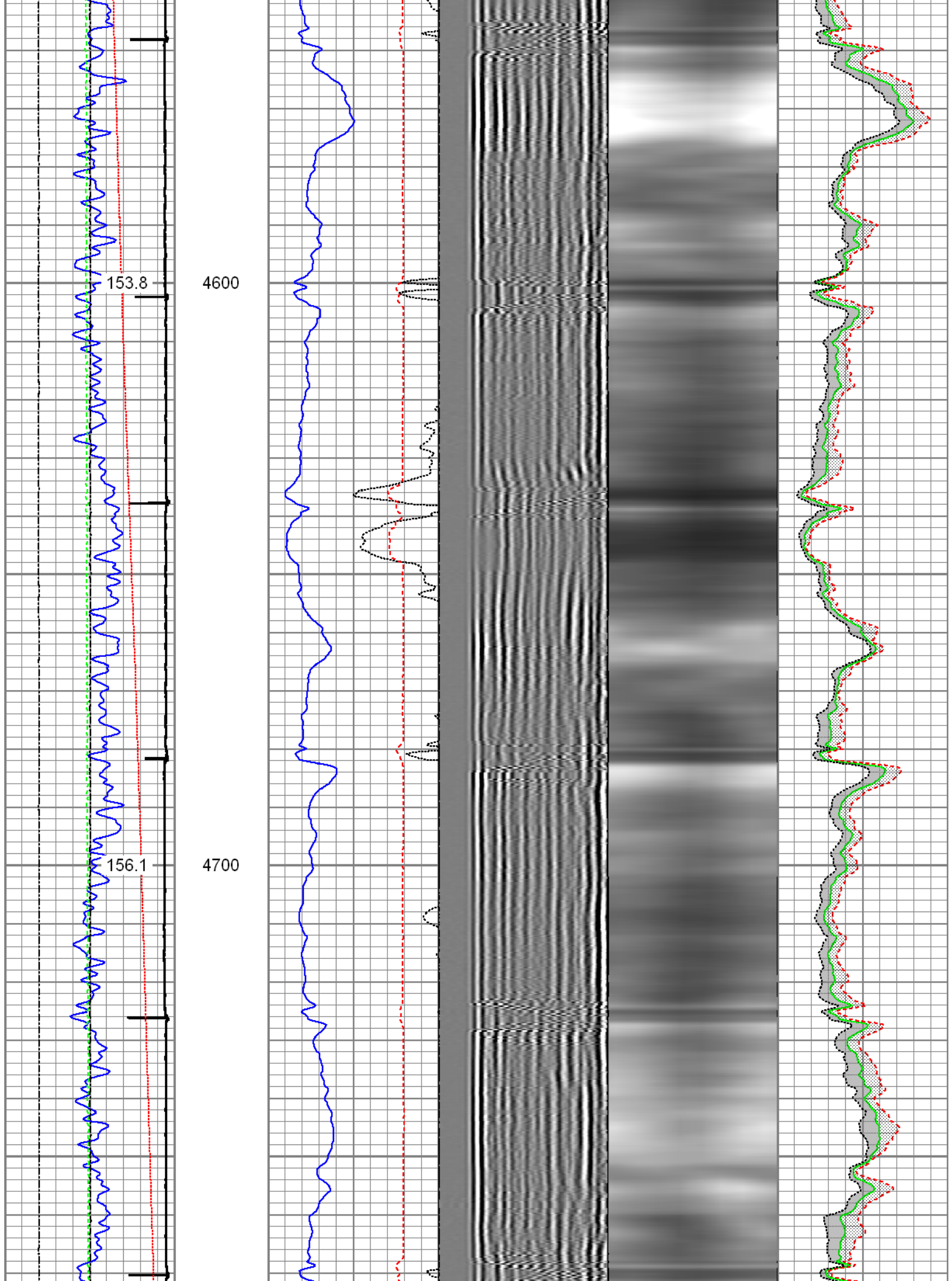


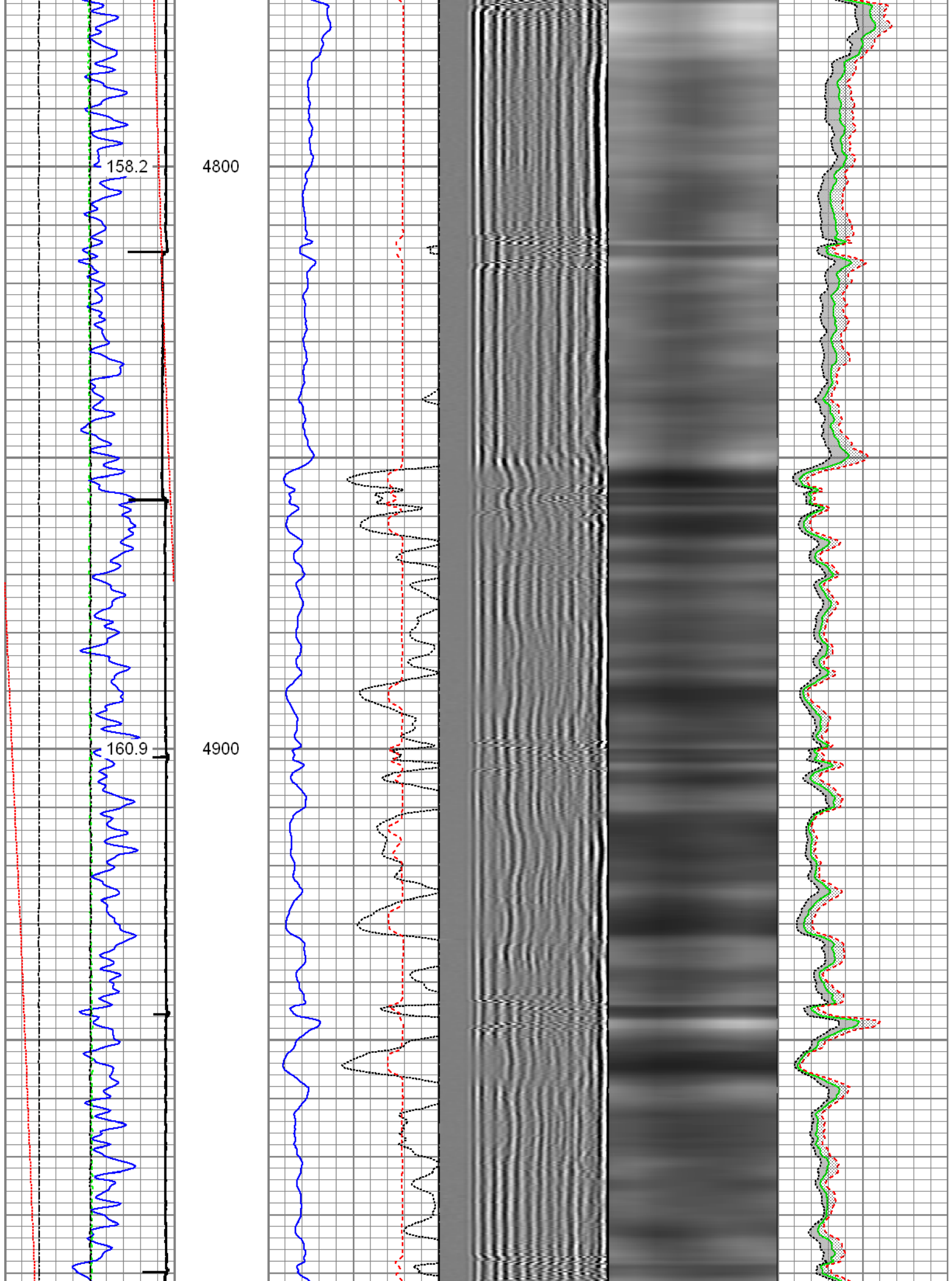


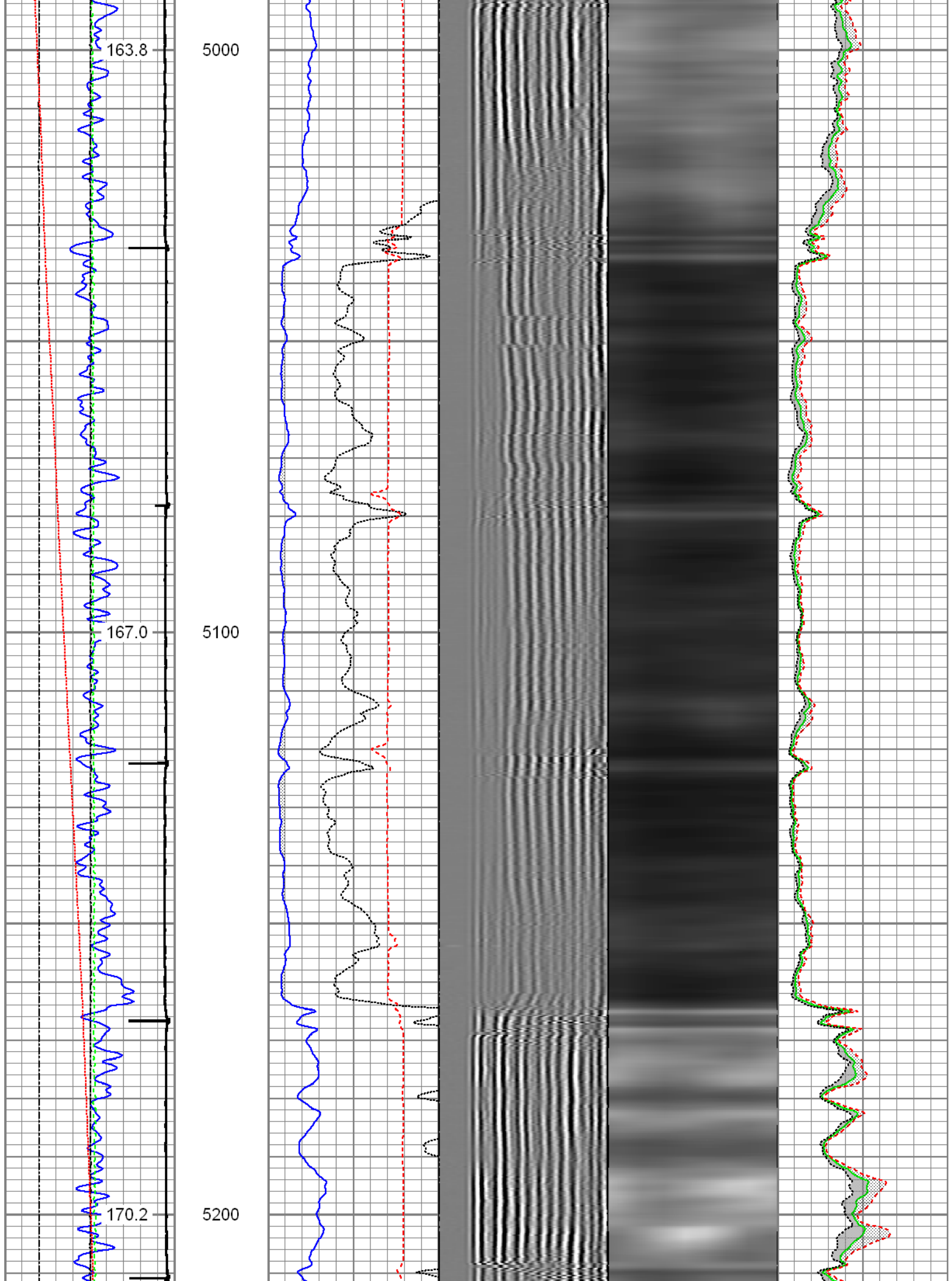


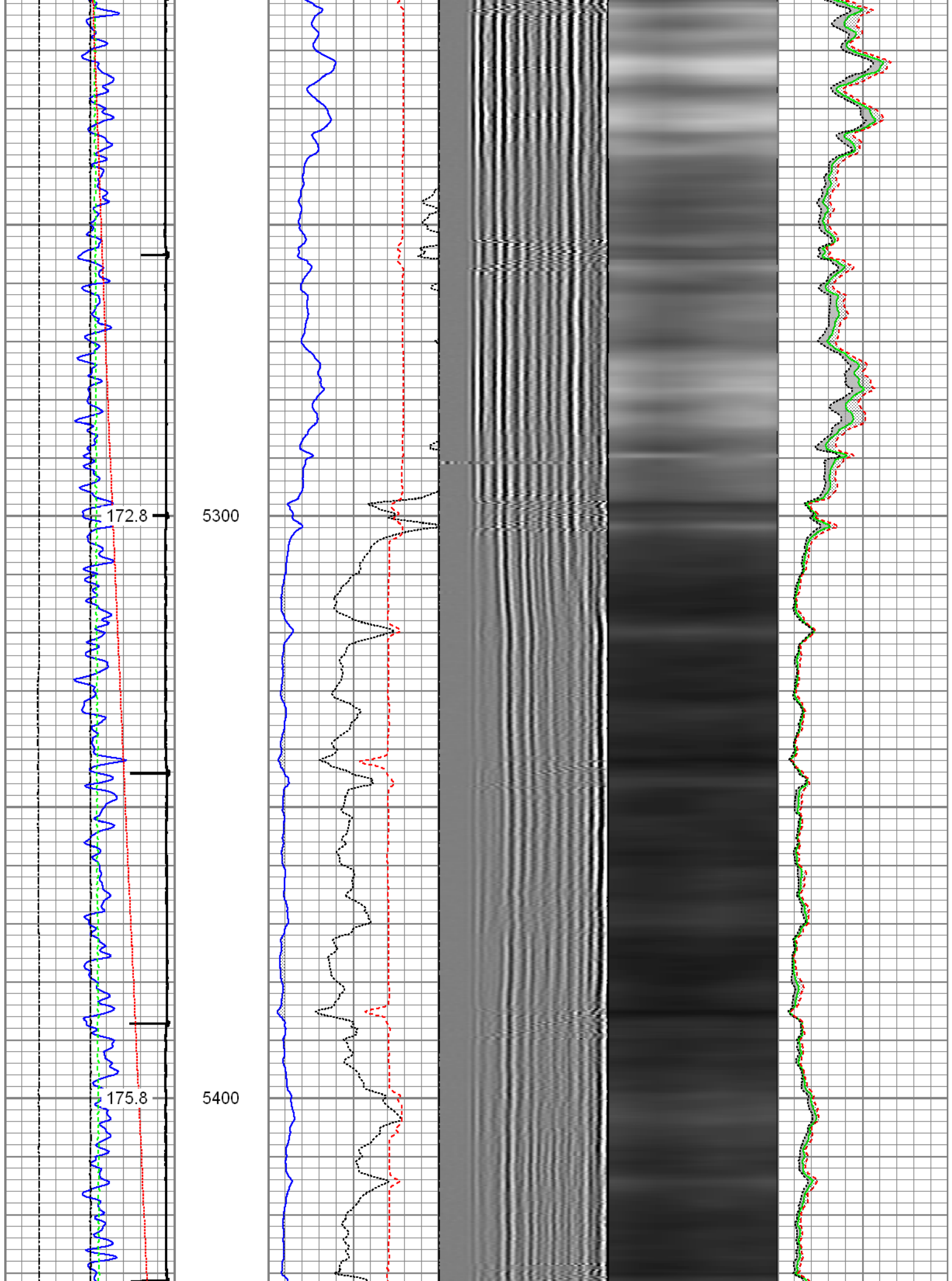


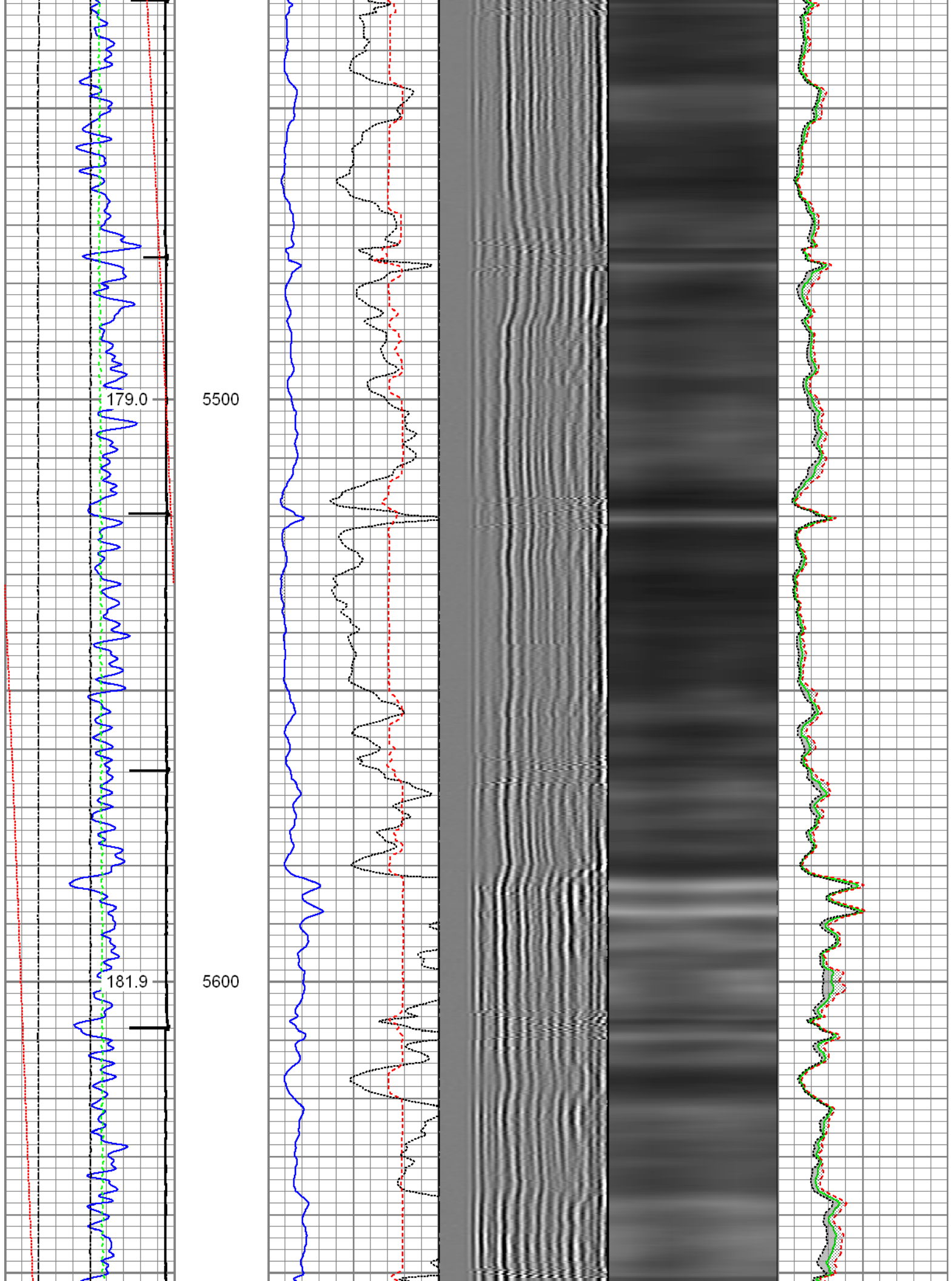


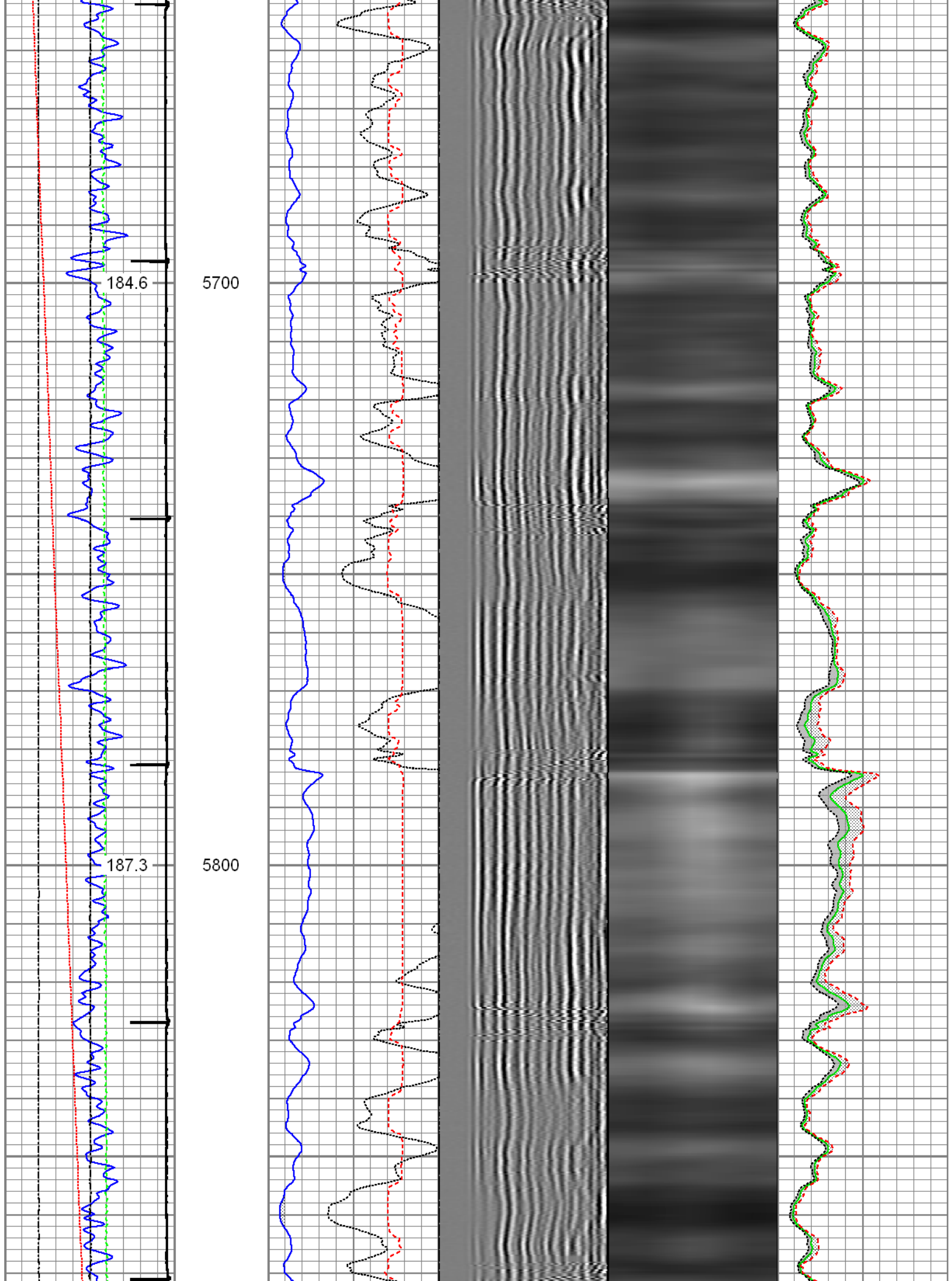


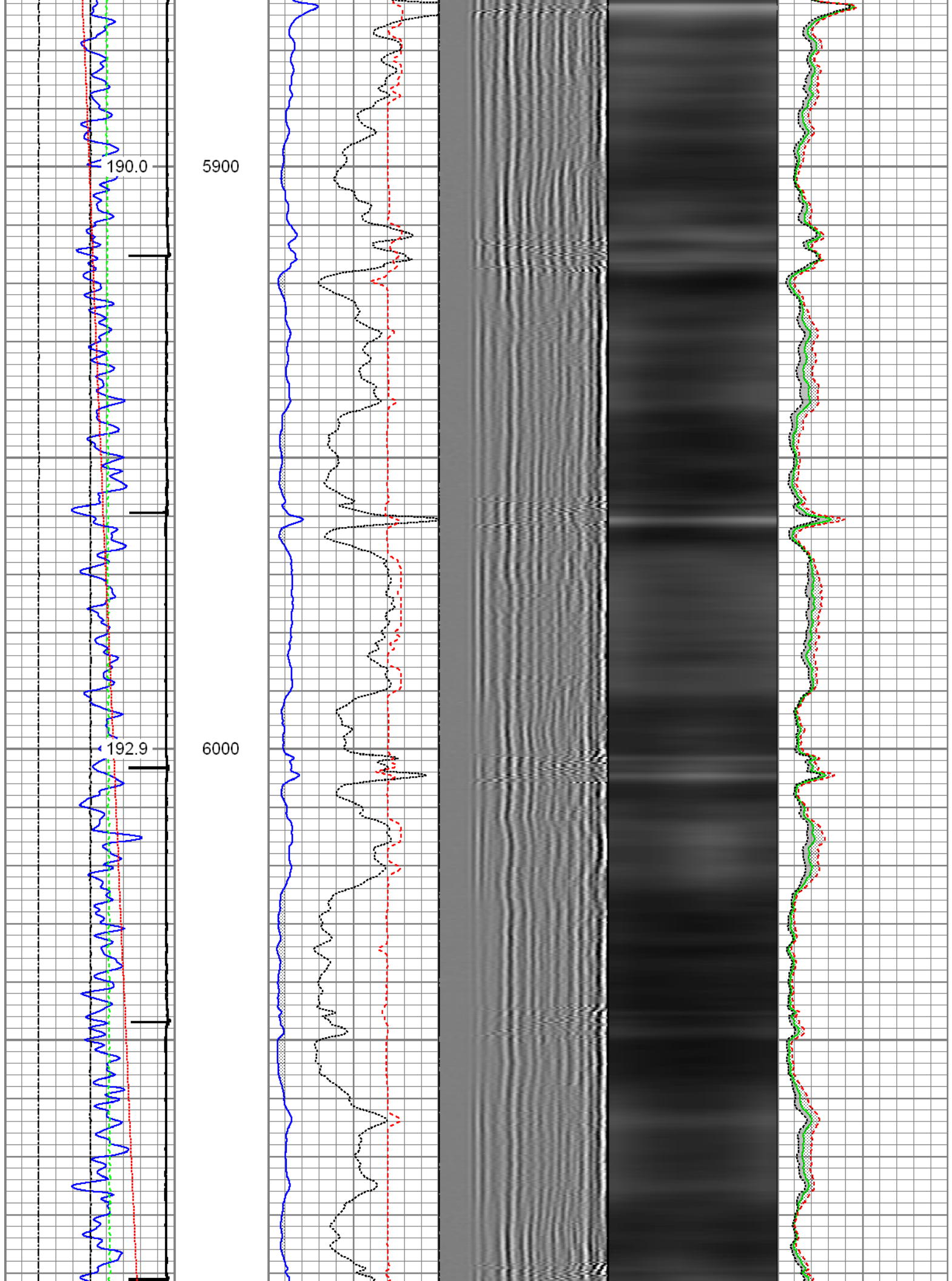


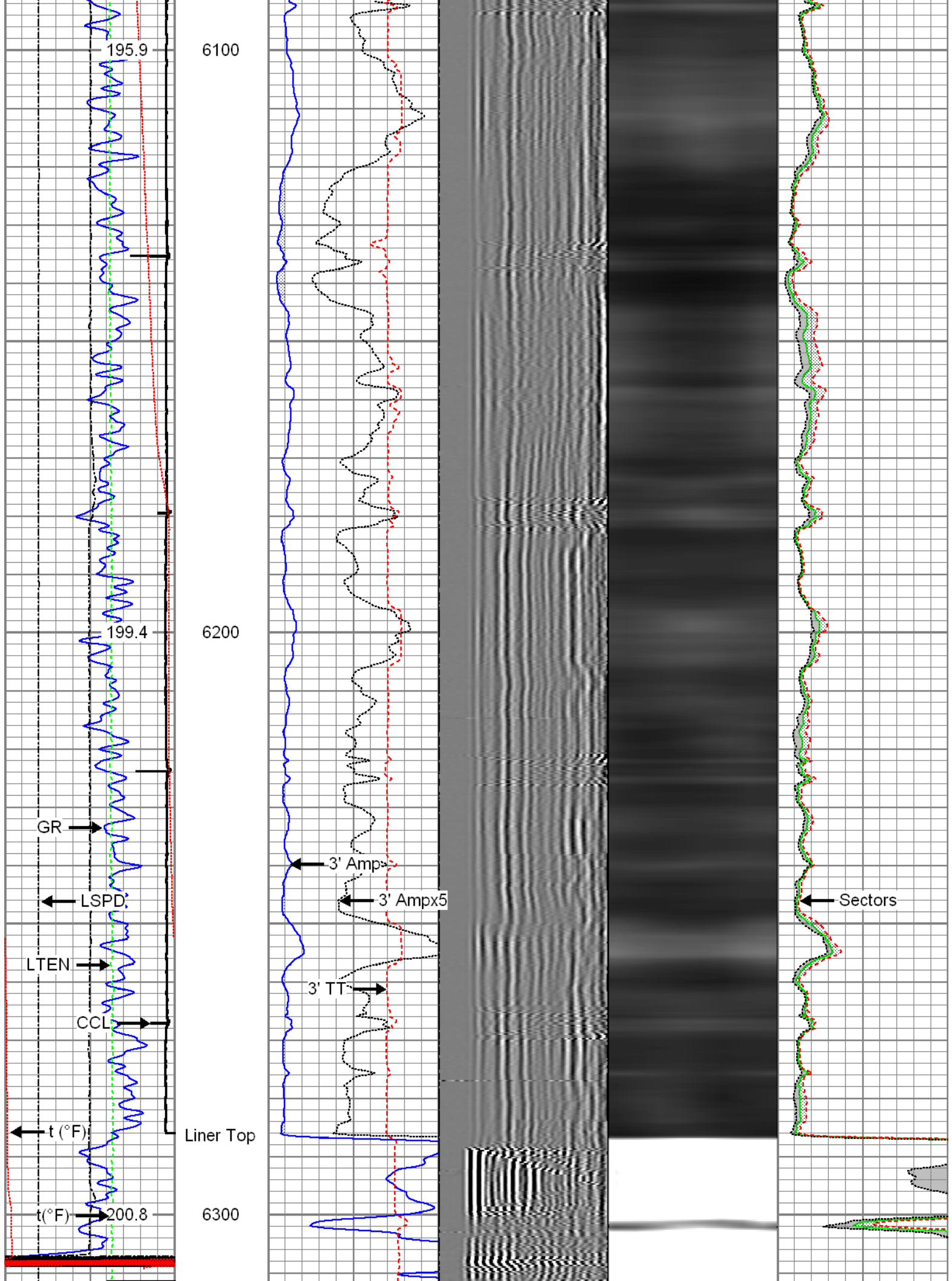


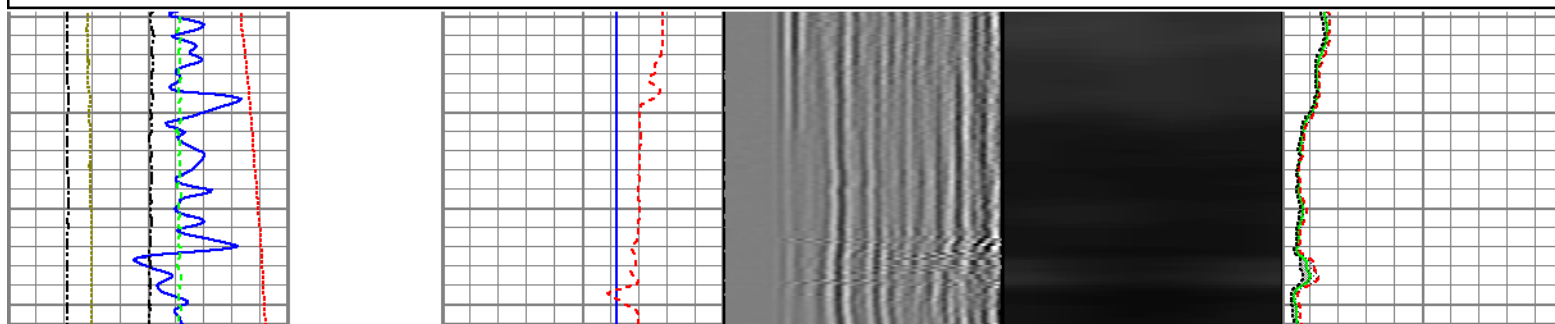
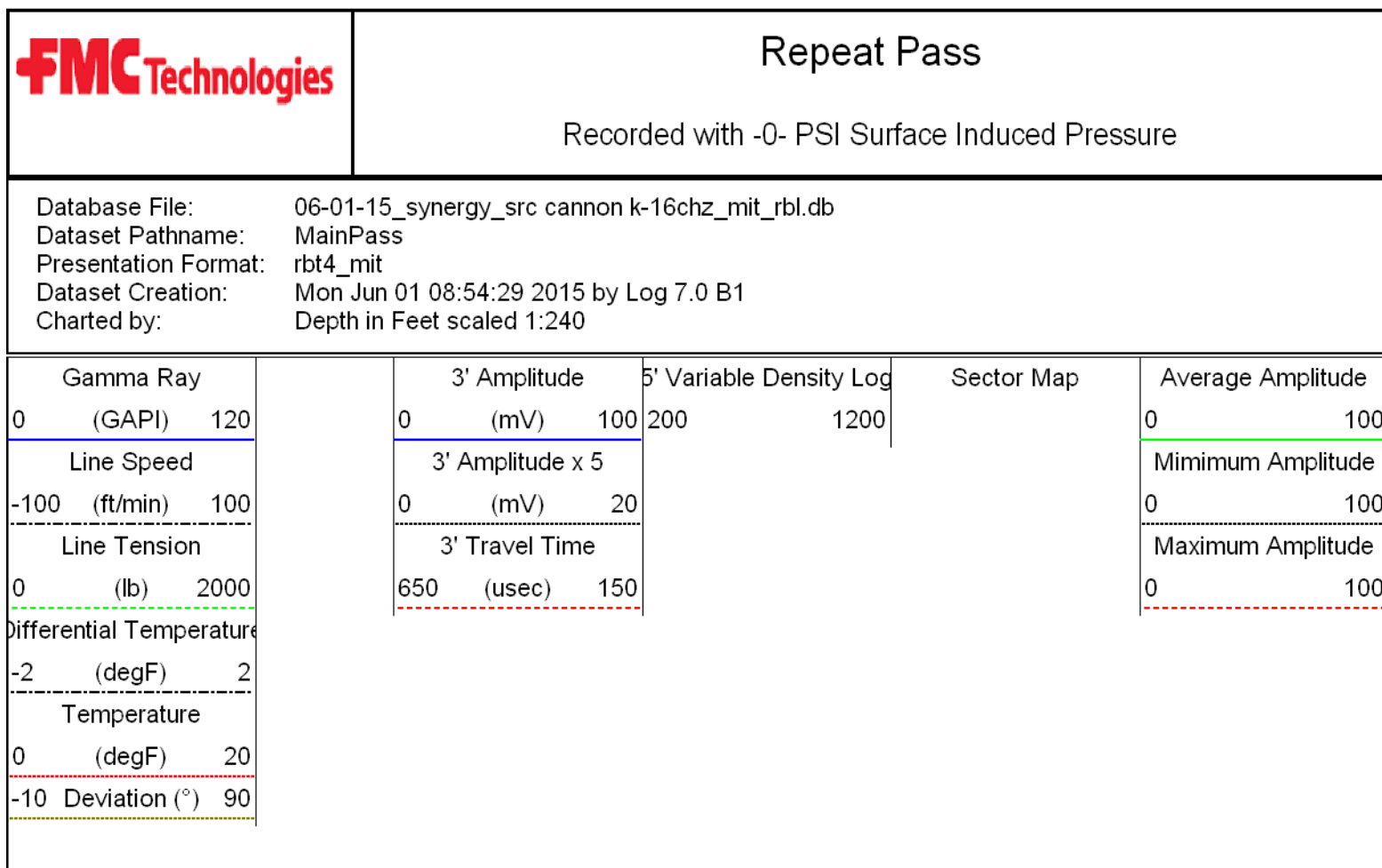
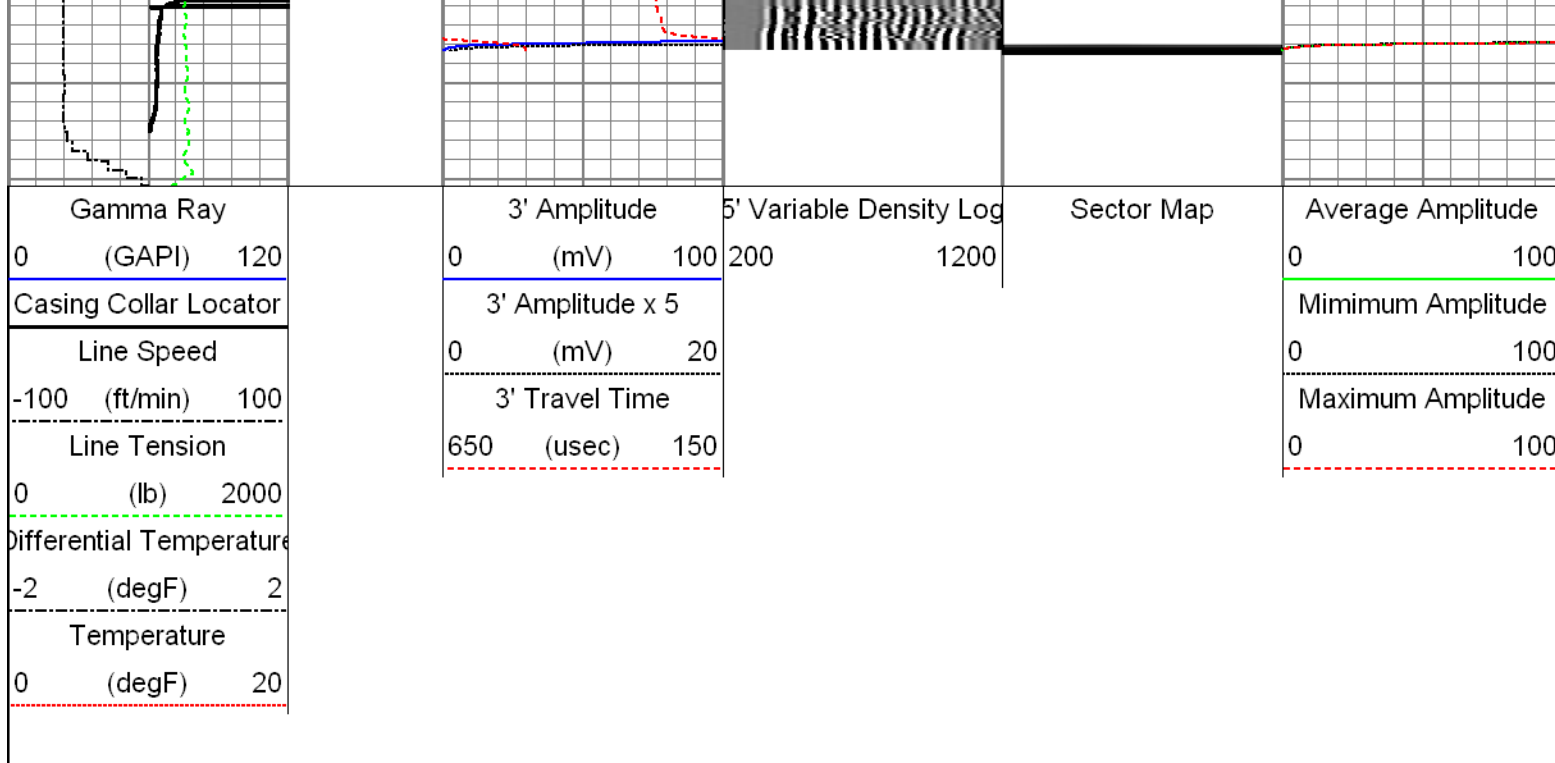












Dataset: 06-01-15_synergy_src cannon k-16chz_mit_rbl.db: field/well/run1/MainPass3
Total Length: 28.09 ft
Total Weight: 324.50 lb
O.D. 3.13 in

Calibration Report

Database File: 06-01-15_synergy_src cannon k-16chz_mit_rbl.db
Dataset Pathname: MainPass3
Dataset Creation: Mon Jun 01 10:30:02 2015 by Log 7.0 B1

Multi-finger Imaging Tool Calibration Report

Serial Number: 218950
Number of Fingers: 40
Tool Model: UW_MIT40_027

Inclinometer Calibration Report

Performed: Fri, Oct, 10 10:41:51 2008
Calibration Angle: 45

	Inc X	Inc Y
Vertical:	1996	1975
Finger 1 up:	2238	2226
Finger 31 up:	1760	2216
Finger 21 up:	1769	1745
Finger 11 up:	2250	1738
Sensitivity ratio:	1.00023	
X-axis angle:	314.283	
Deviation const.:	339.139	

Finger Calibration Report

Performed: Mon Jun 01 08:23:33 2015

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1429	276.0	1705	295.0	2000	301.0	2301
Finger 02:	1497	254.0	1751	262.0	2013	266.0	2279
Finger 03:	1410	281.0	1691	294.0	1985	301.0	2286
Finger 04:	1432	280.0	1712	291.0	2003	295.0	2298
Finger 05:	1472	272.0	1744	277.0	2021	282.0	2303
Finger 06:	1401	284.0	1685	294.0	1979	304.0	2283
Finger 07:	1425	281.0	1706	288.0	1994	302.0	2296
Finger 08:	1420	277.0	1697	285.0	1982	295.0	2277
Finger 09:	1415	285.0	1700	288.0	1988	303.0	2291
Finger 10:	1436	272.0	1708	279.0	1987	292.0	2279
Finger 11:	1419	284.0	1703	286.0	1989	301.0	2290
Finger 12:	1377	284.0	1661	290.0	1951	308.0	2259
Finger 13:	1475	267.0	1742	266.0	2008	279.0	2287
Finger 14:	1418	270.0	1688	276.0	1964	295.0	2259
Finger 15:	1412	284.0	1696	288.0	1984	305.0	2289
Finger 16:	1421	275.0	1696	283.0	1979	300.0	2279
Finger 17:	1429	286.0	1715	293.0	2008	307.0	2315
Finger 18:	1372	273.0	1645	278.0	1923	296.0	2219
Finger 19:	1430	277.0	1707	285.0	1992	298.0	2290
Finger 20:	1442	275.0	1717	286.0	2003	301.0	2304
Finger 21:	1391	287.0	1678	301.0	1979	317.0	2296
Finger 22:	1419	266.0	1685	280.0	1965	291.0	2256
Finger 23:	1414	272.0	1686	288.0	1974	299.0	2273
Finger 24:	1448	276.0	1724	287.0	2011	292.0	2303
Finger 25:	1427	278.0	1705	292.0	1997	298.0	2295
Finger 26:	1393	279.0	1672	300.0	1972	303.0	2275
Finger 27:	1449	270.0	1719	289.0	2008	290.0	2298
Finger 28:	1432	278.0	1710	297.0	2007	301.0	2308
Finger 29:	1482	262.0	1744	280.0	2024	279.0	2303
Finger 30:	1391	276.0	1667	300.0	1967	303.0	2270

Finger 31:	1420	280.0	1700	305.0	2005	305.0	2310
Finger 32:	1475	265.0	1740	285.0	2025	284.0	2309
Finger 33:	1433	279.0	1712	307.0	2019	307.0	2326
Finger 34:	1438	273.0	1711	300.0	2011	305.0	2316
Finger 35:	1495	255.0	1750	275.0	2025	276.0	2301
Finger 36:	1474	265.0	1739	289.0	2028	291.0	2319
Finger 37:	1445	277.0	1722	302.0	2024	302.0	2326
Finger 38:	1527	250.0	1777	265.0	2042	270.0	2312
Finger 39:	1442	272.0	1714	291.0	2005	289.0	2294
Finger 40:	1401	283.0	1684	304.0	1988	307.0	2295

Segmented Cement Bond Log Calibration Report

Serial Number:	1063
Tool Model:	UW_RBT_004
Calibration Casing Diameter:	4.500 in
Calibration Depth:	6330.141 ft

Master Calibration, performed Mon Jun 01 10:02:02 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.003	0.768	0.800	81.196	105.091	0.487
5FT	-0.002	0.527	0.800	81.196	151.774	1.171
S1	0.004	0.785	0.000	100.000	127.966	-0.469
S2	0.004	0.832	0.000	100.000	120.810	-0.475
S3	0.009	0.853	0.000	100.000	118.478	-1.012
S4	0.006	0.848	0.000	100.000	118.734	-0.710
S5	0.007	0.764	0.000	100.000	132.136	-0.968
S6	0.007	0.707	0.000	100.000	142.830	-0.968
S7	0.007	0.711	0.000	100.000	142.121	-1.057
S8	0.007	0.745	0.000	100.000	135.531	-0.993

Temperature Calibration Report

Serial Number:	10025100
Tool Model:	UW_PRT_016
Performed:	Wed Feb 11 13:47:59 2015

Point #	Reading		Reference	
1	13249.00	cps	68.00	degF
2	18454.00	cps	104.00	degF
3	29735.00	cps	176.00	degF
4	41457.00	cps	248.00	degF
5	52851.00	cps	320.00	degF
6	59128.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number:	10024770
Tool Model:	UW_PGR_020
Performed:	Sun Jun 13 13:33:21 1993

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Calibrator Reading.

1.0

cps

Sensitivity:

1.0000

GAPI/cps



Company

Synergy Resources Corporation

Well

SRC Cannon K-16CHZ

Field

Wattenberg

County

Weld

State

Colorado