

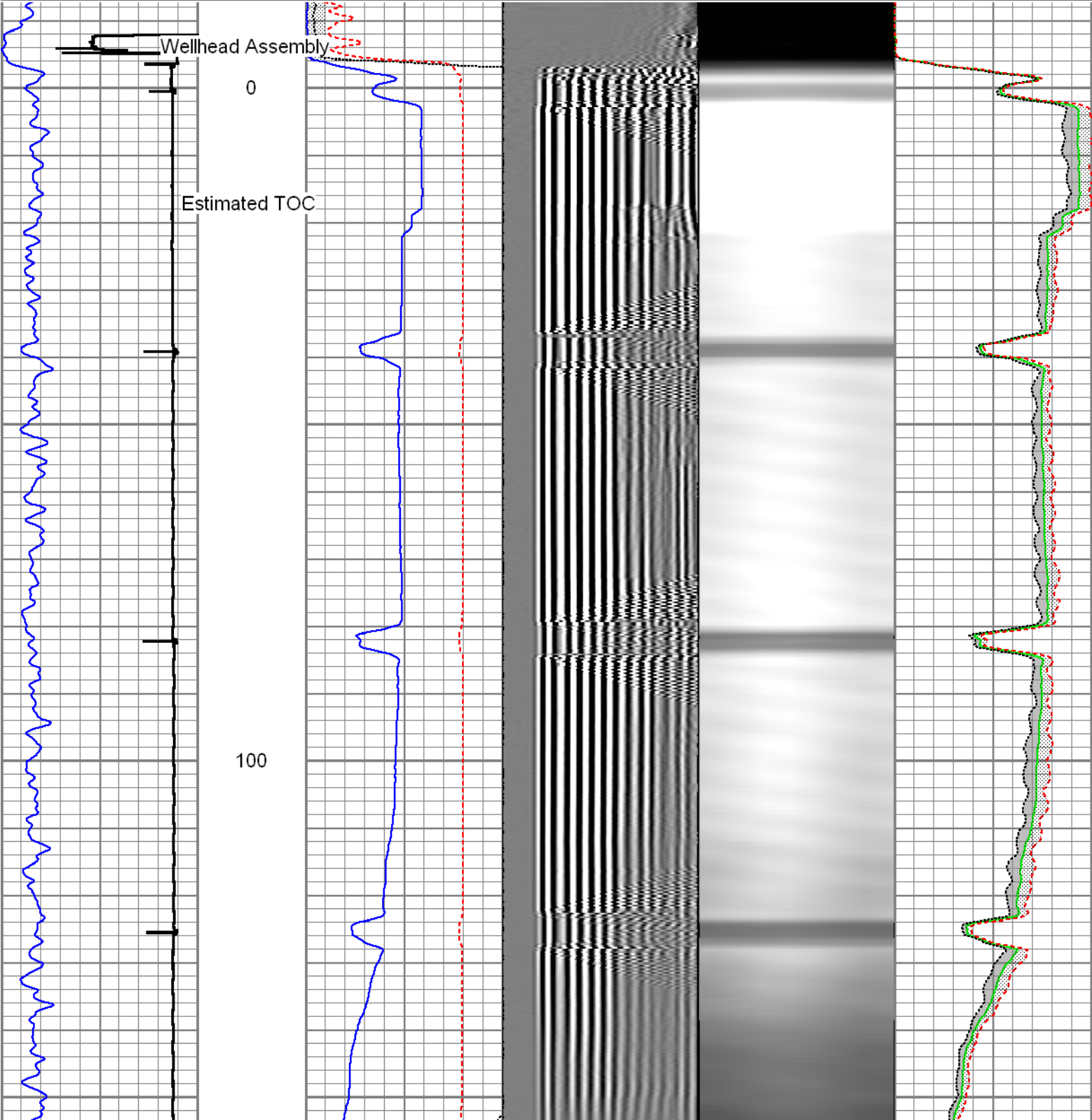
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 6822 FT. Adjusted -25 FT from KB zero to correlate with Liner Top Gauge Ring / Junk Basket run to 3 joints below liner top prior to log run. Log ran from 6870 FT to surface. Log ran with 2800 PSI surface induced pressure. Thank you for choosing FMC Technologies Completion Services!!

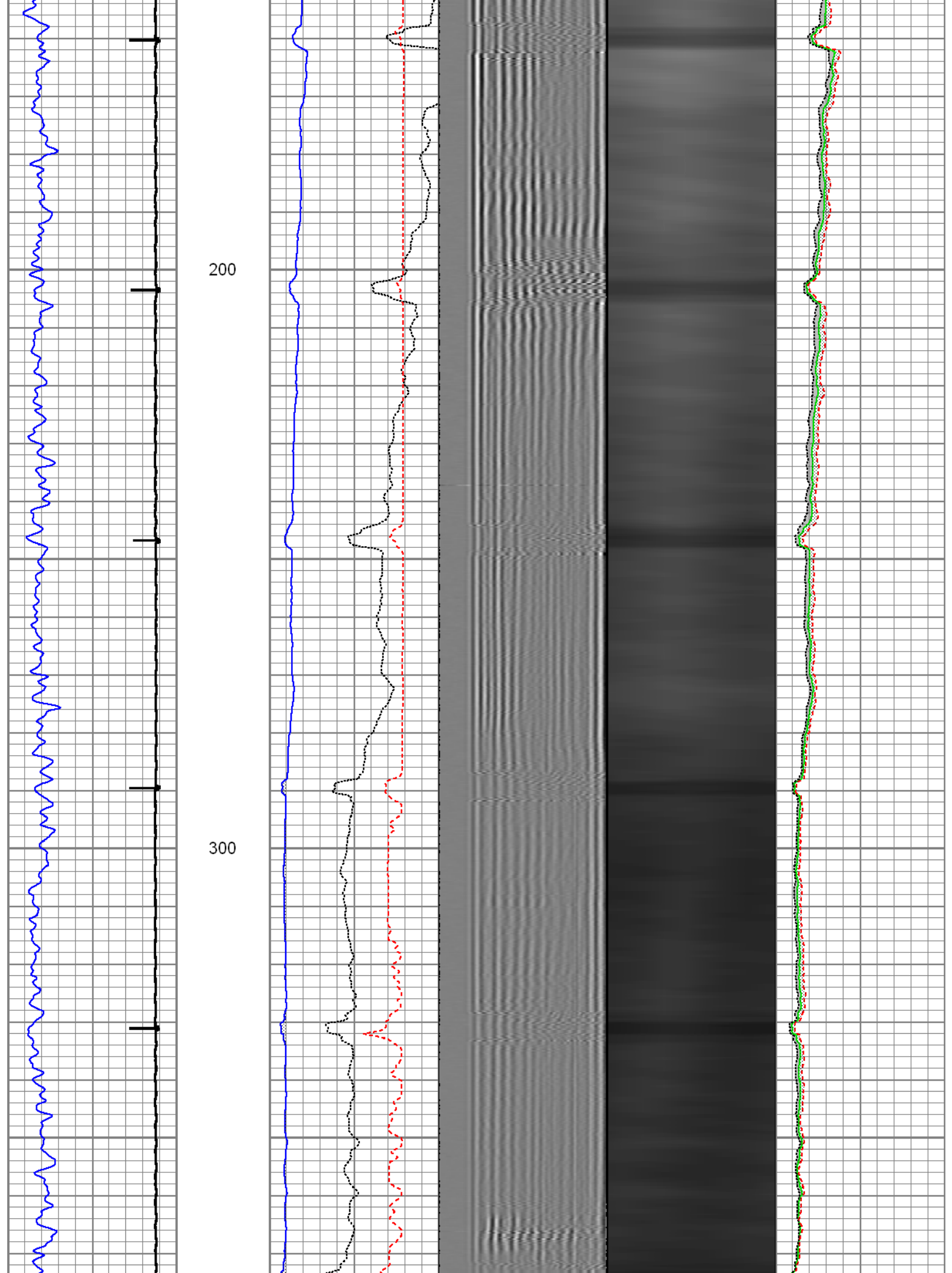


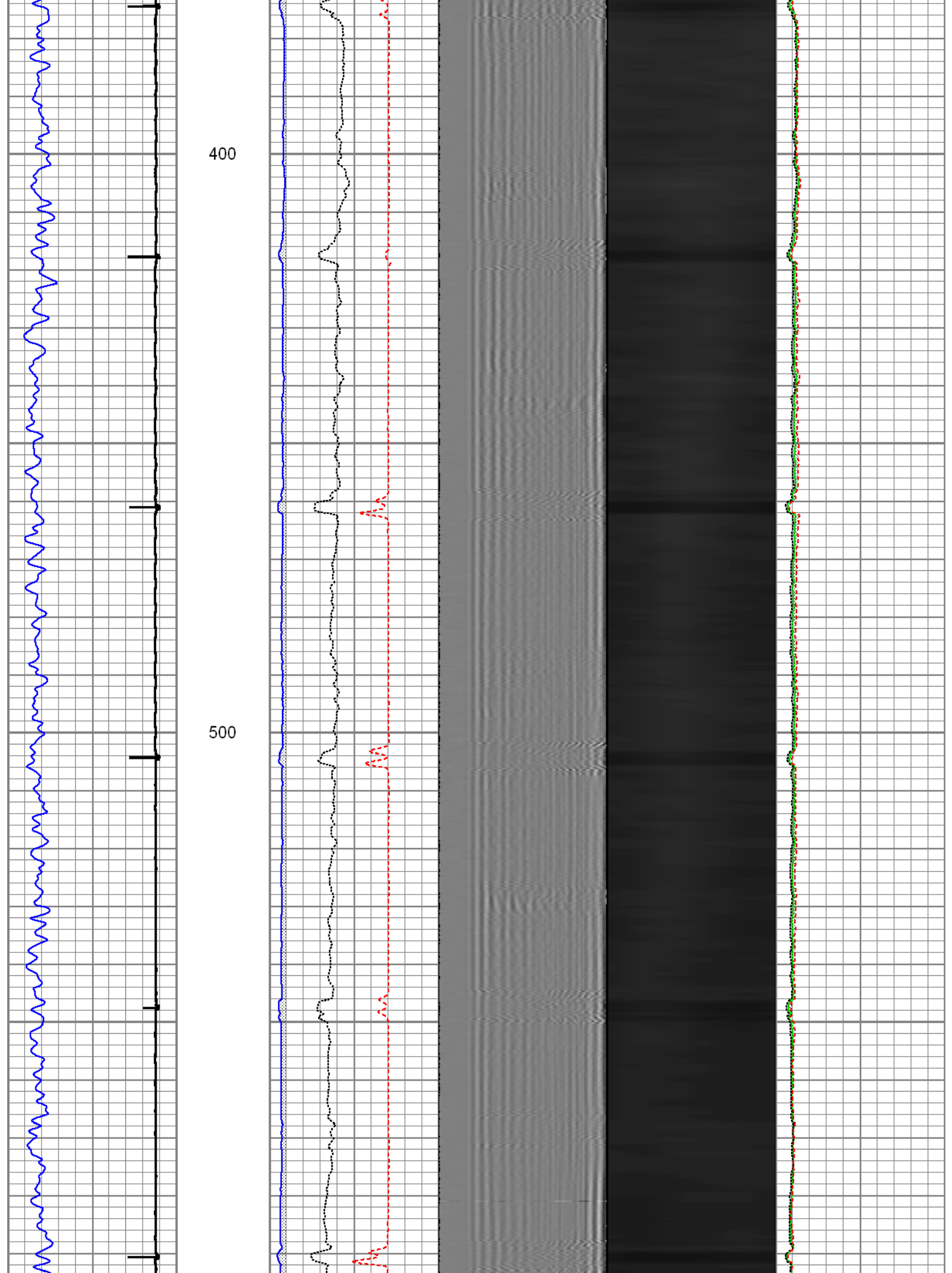
Recorded with 2800 PSI surface induced pressure.

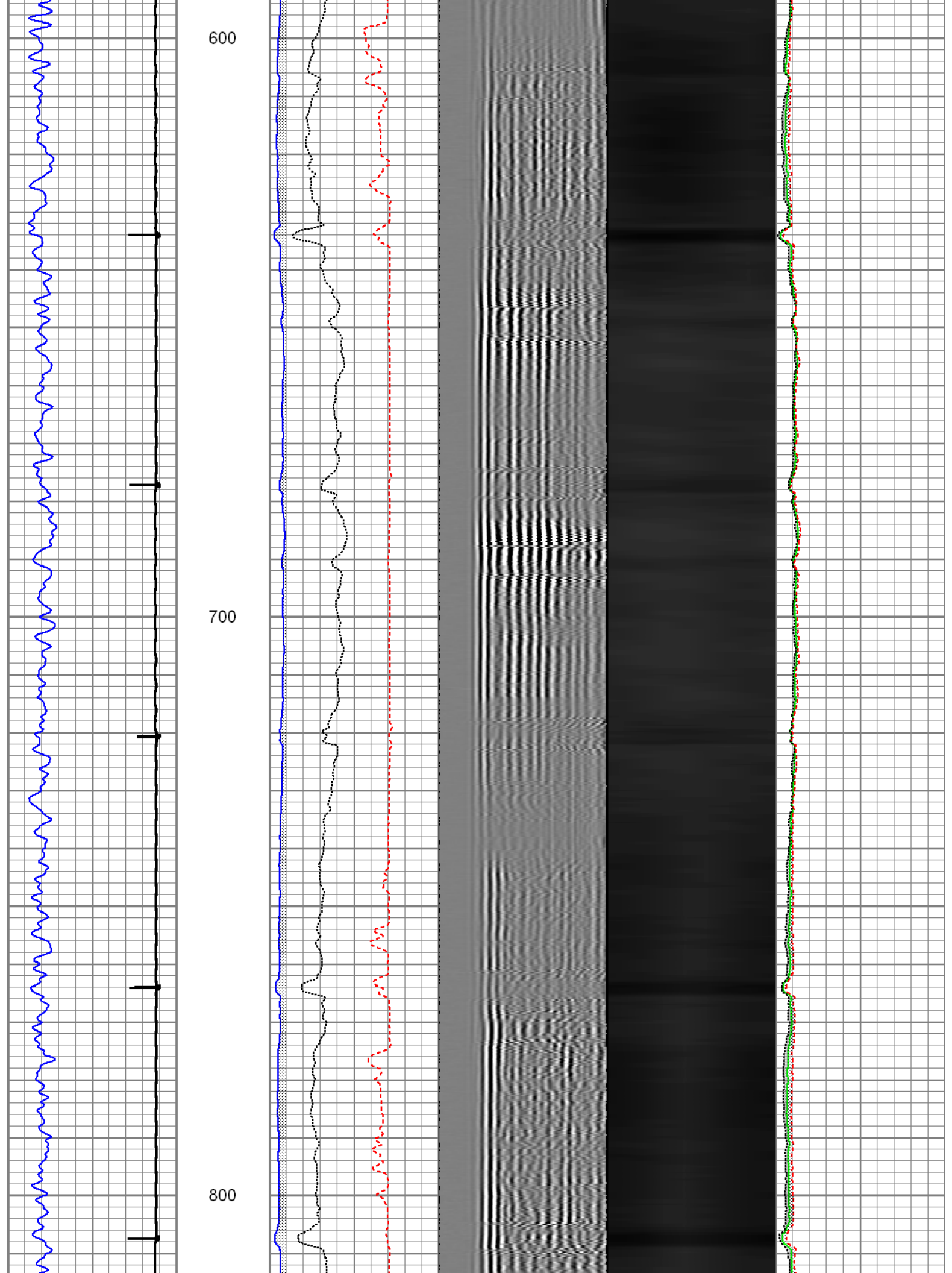
Database File: anadarko_barefoot 32c-25hz_rcbl mit_08-july-2014.db
Dataset Pathname: pass12
Presentation Format: rbt4_mit
Dataset Creation: Tue Jul 08 14:32:57 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

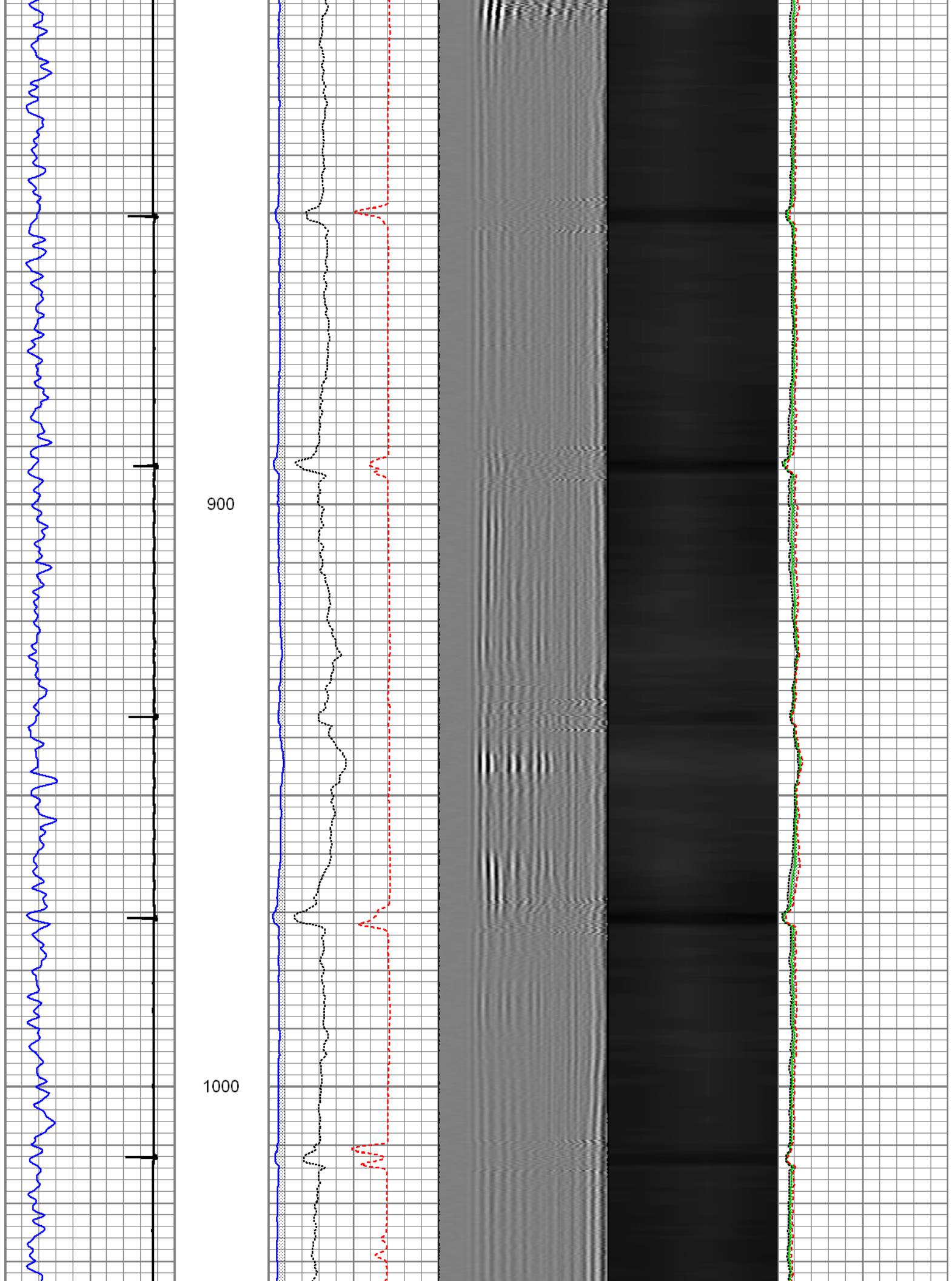
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Mimimum Amplitude
	0 (mV) 20			0 100
	3' Travel Time			Maximum Amplitude
	650 (usec) 150			0 100

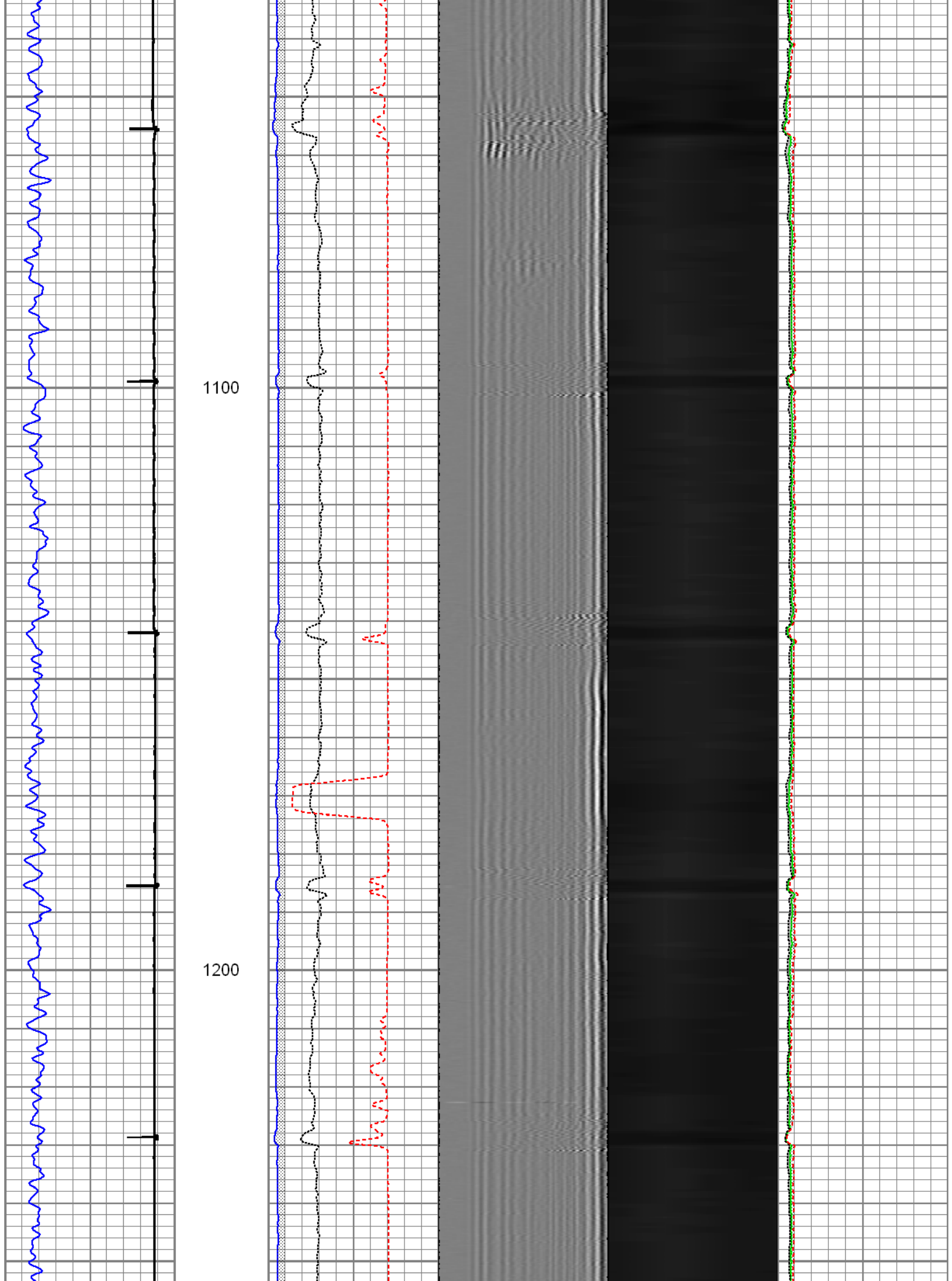


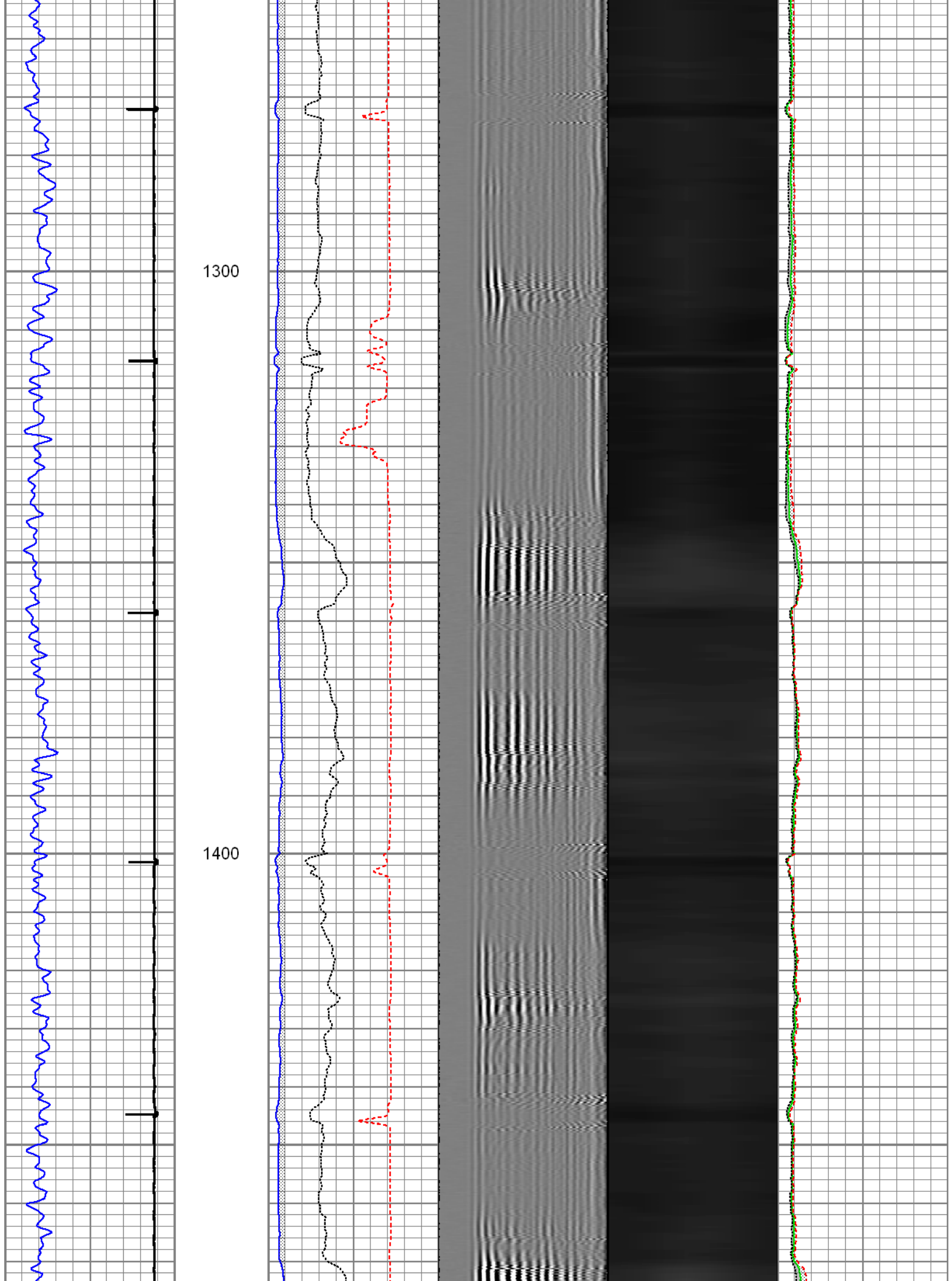


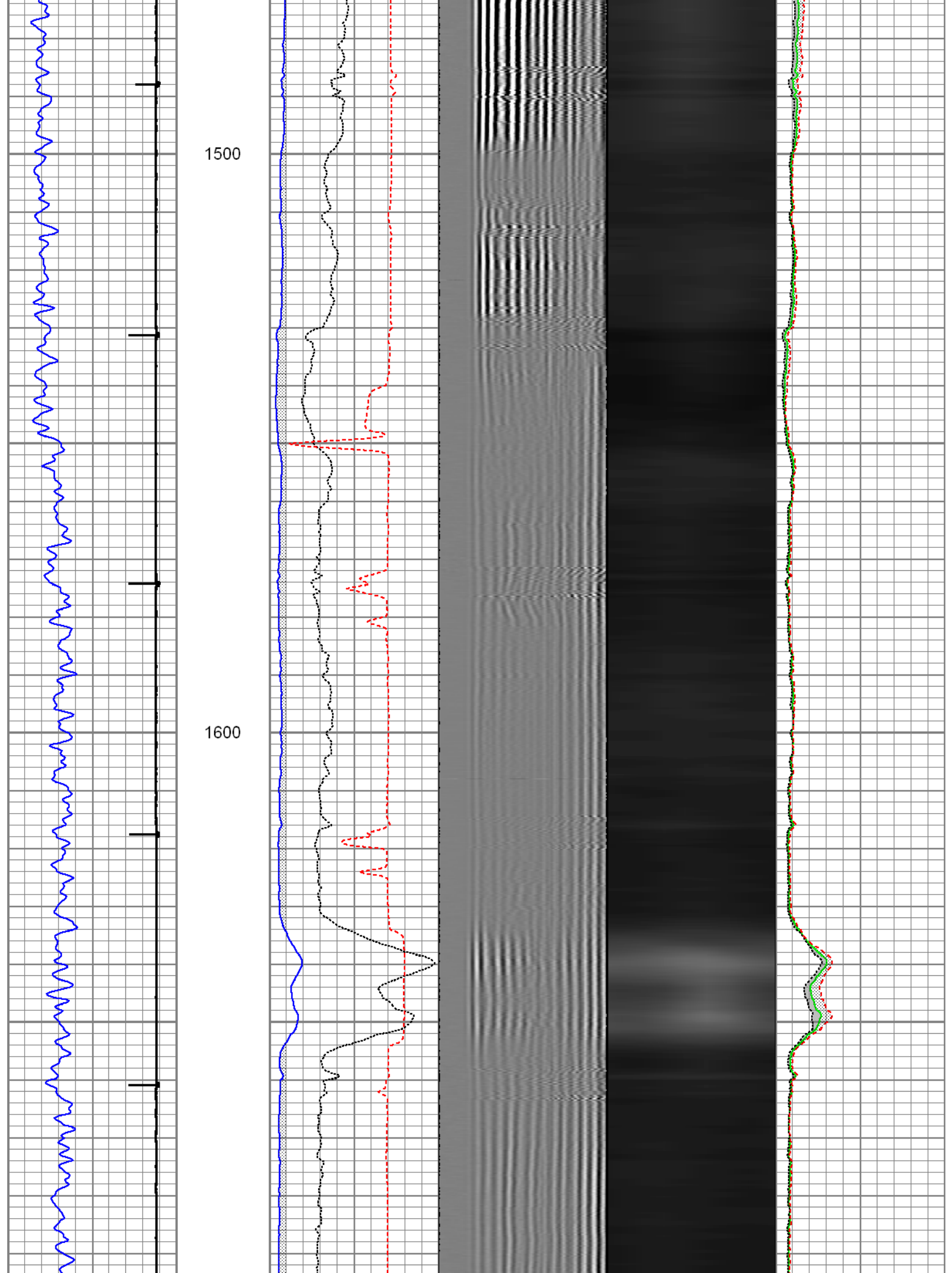


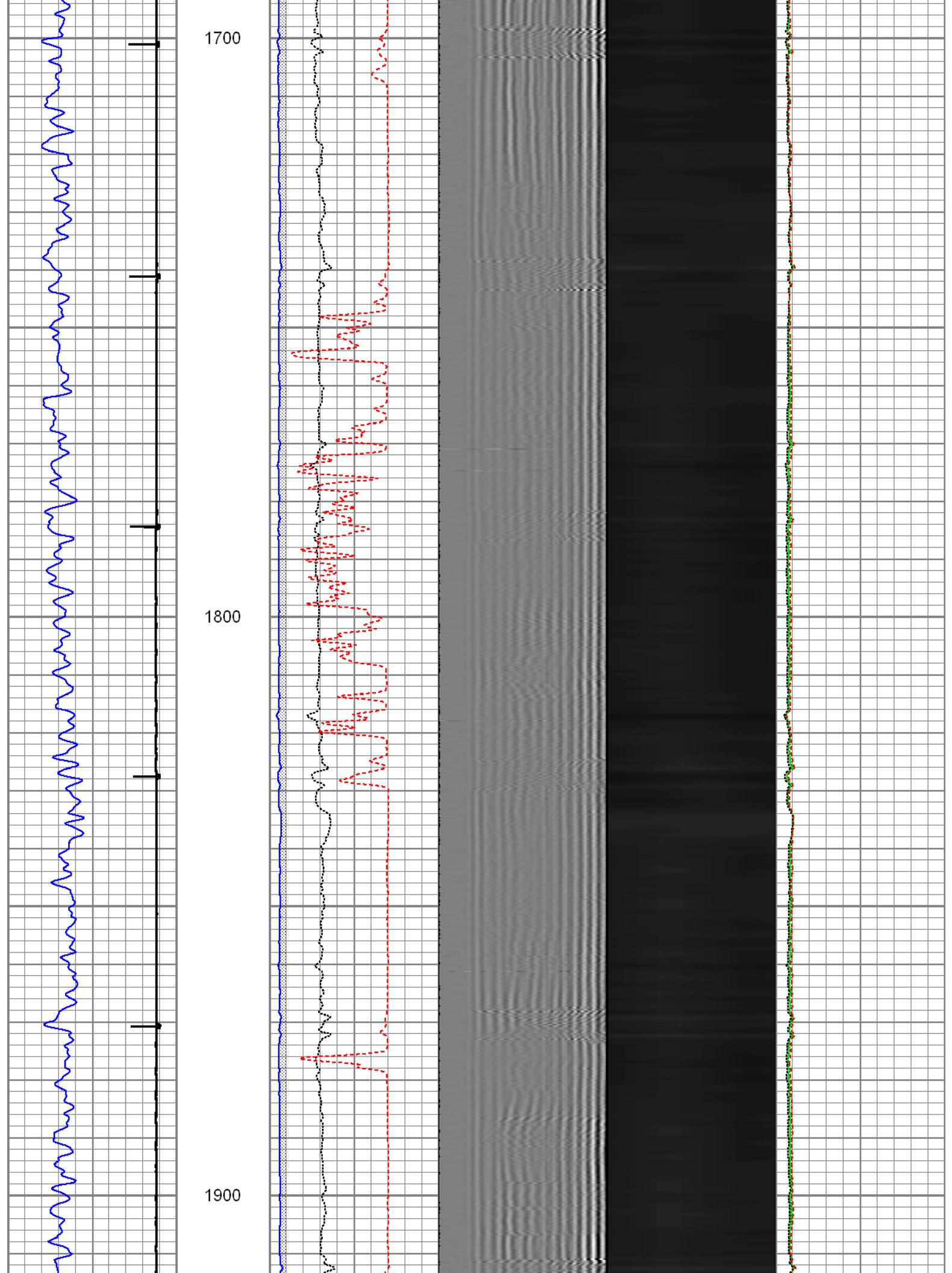


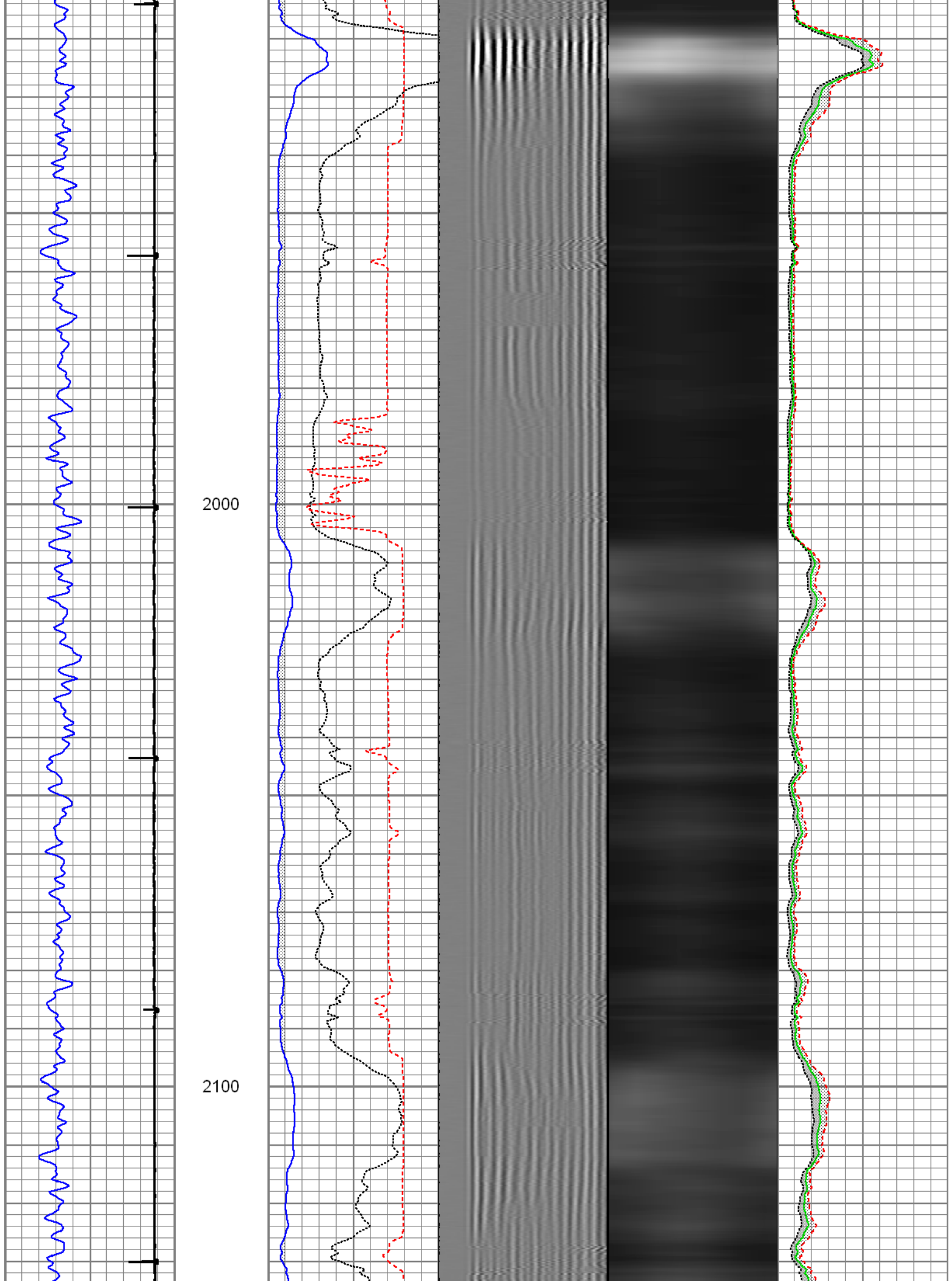


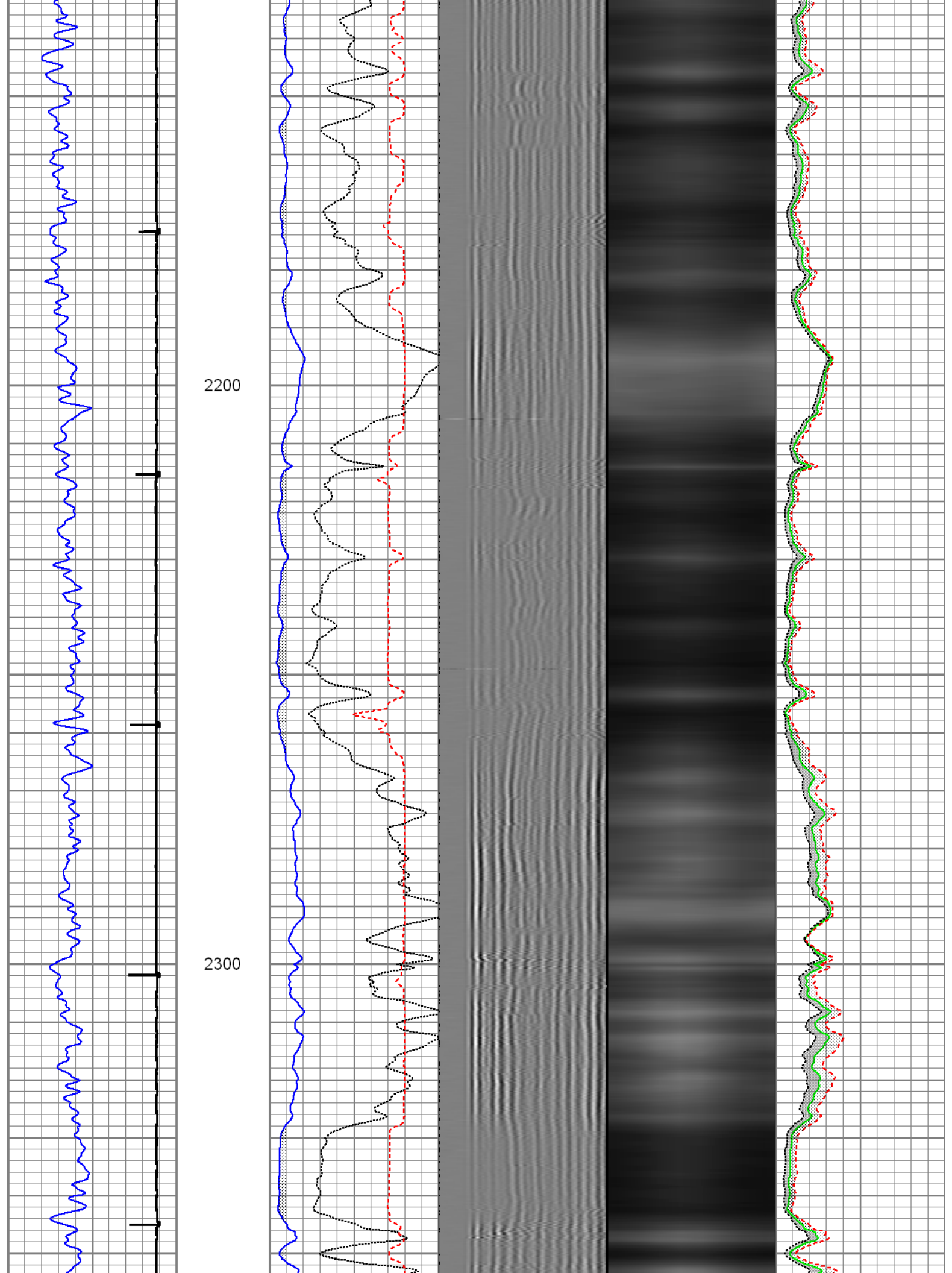


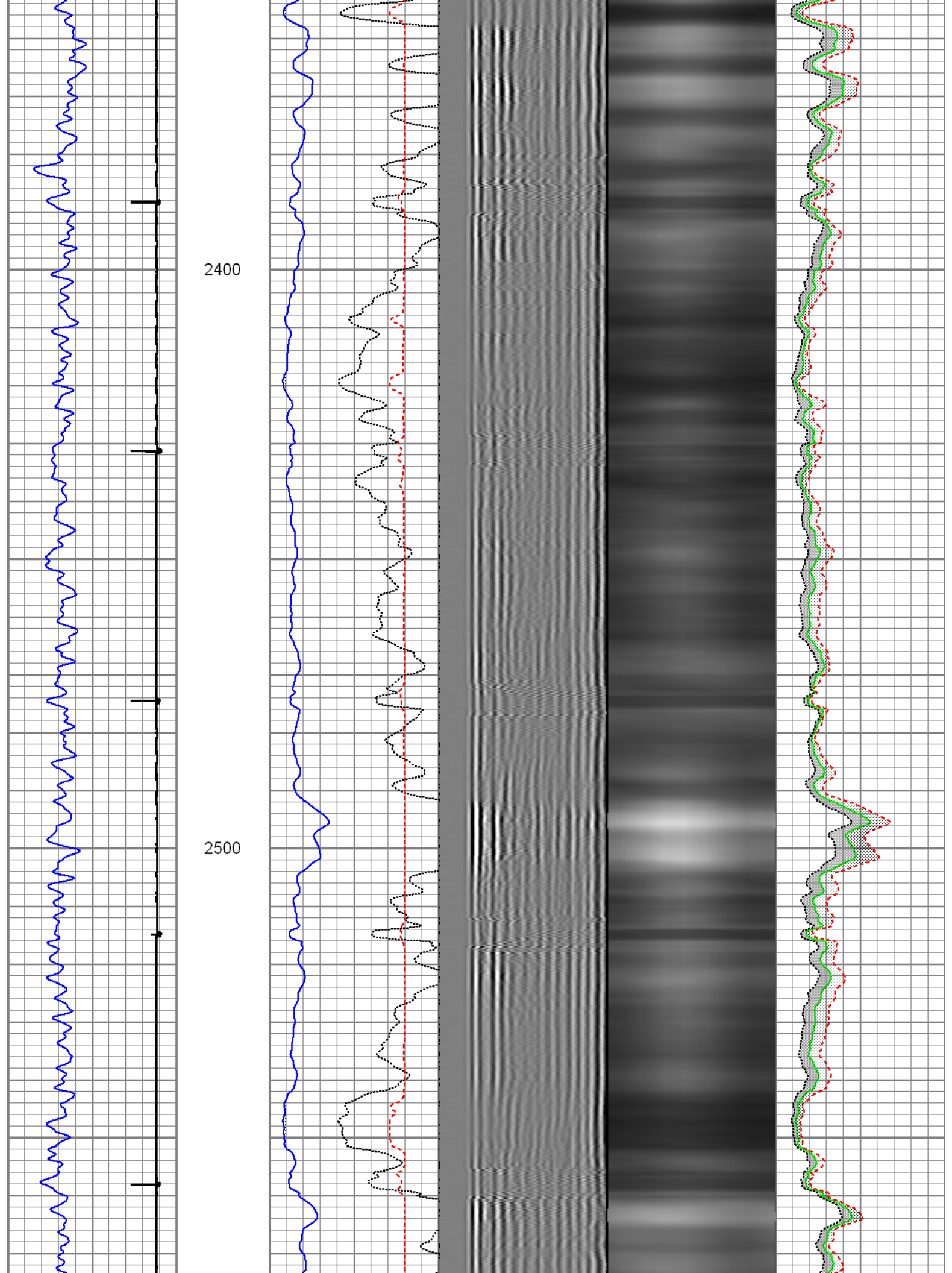


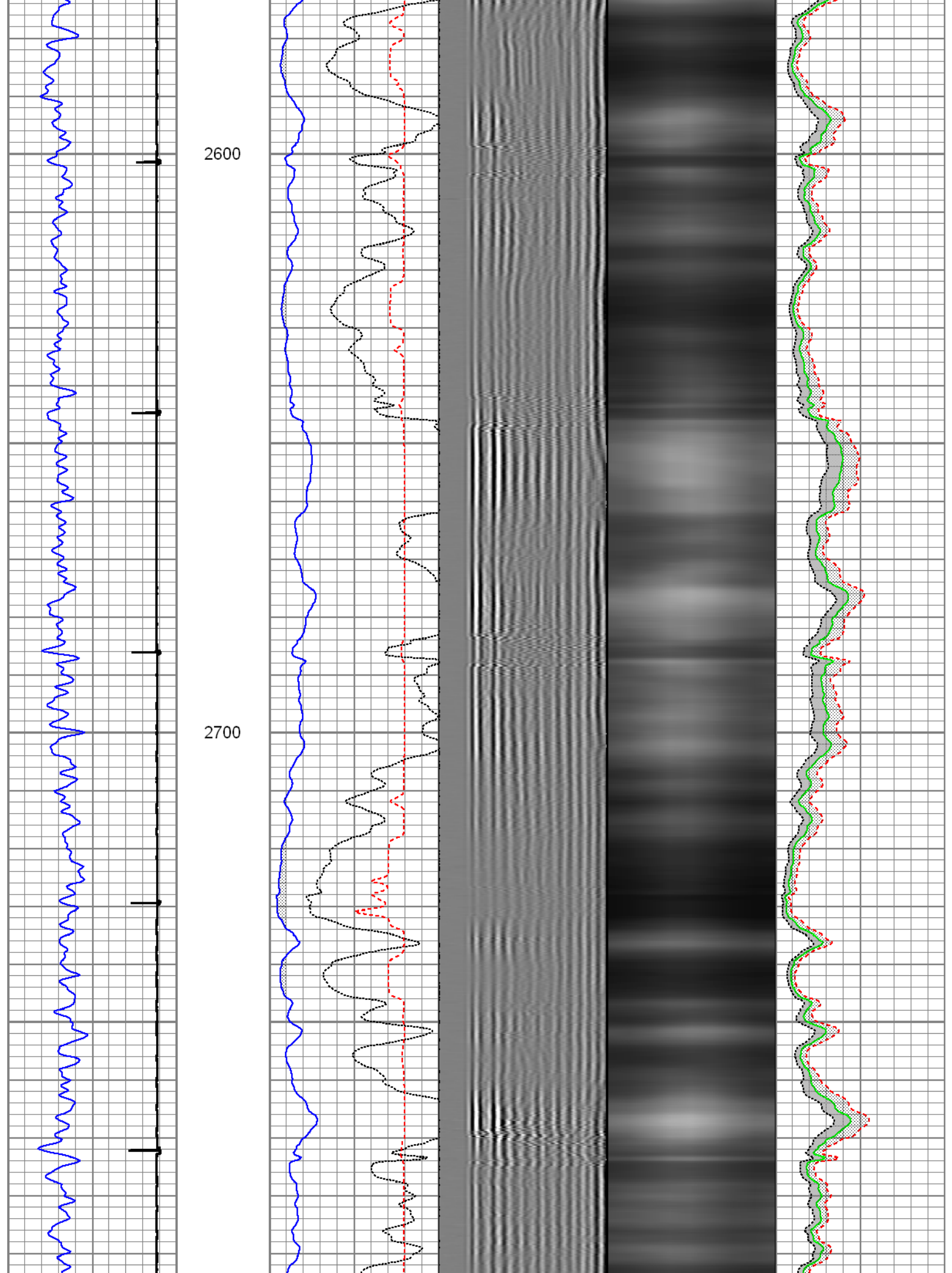


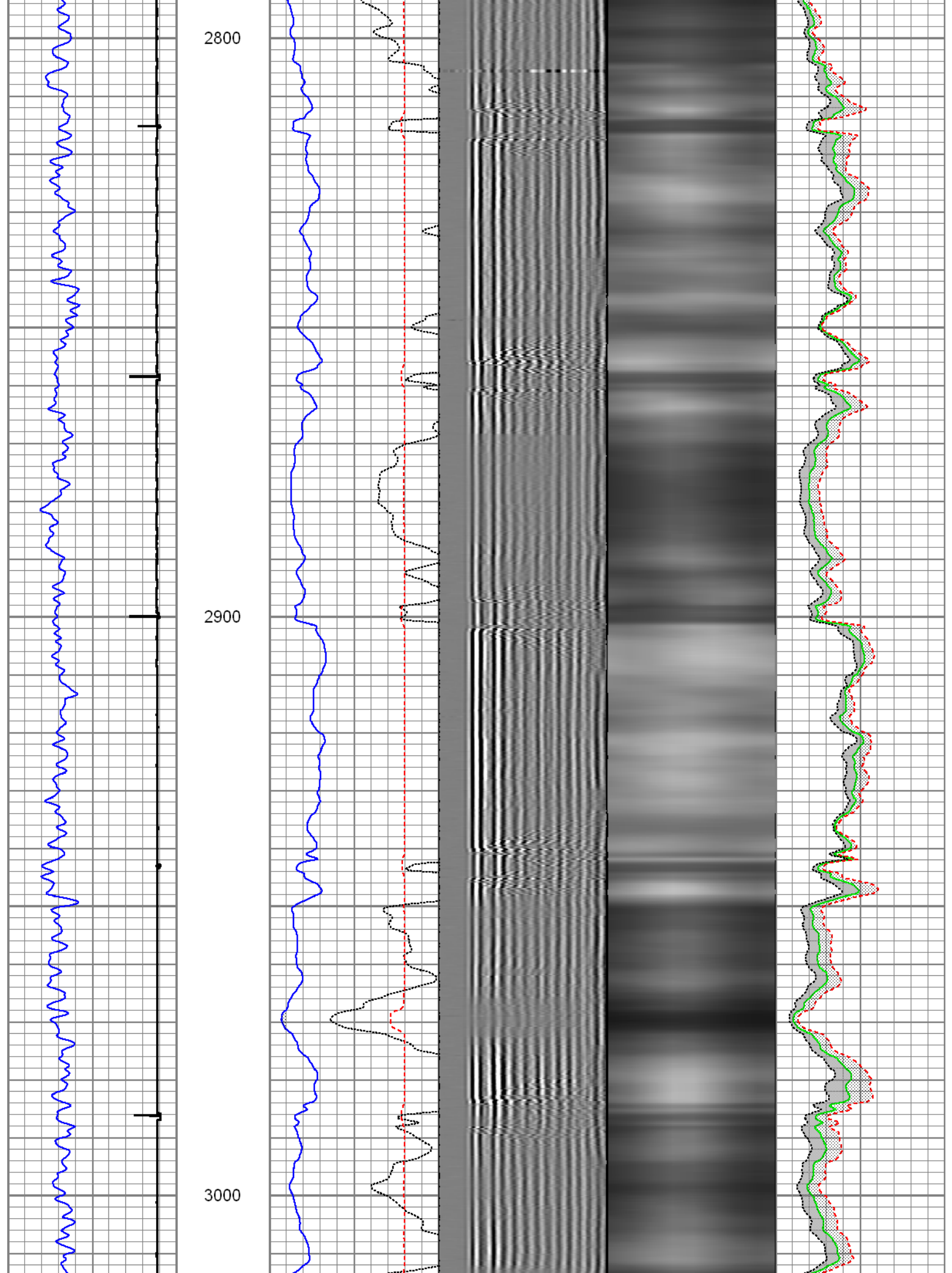


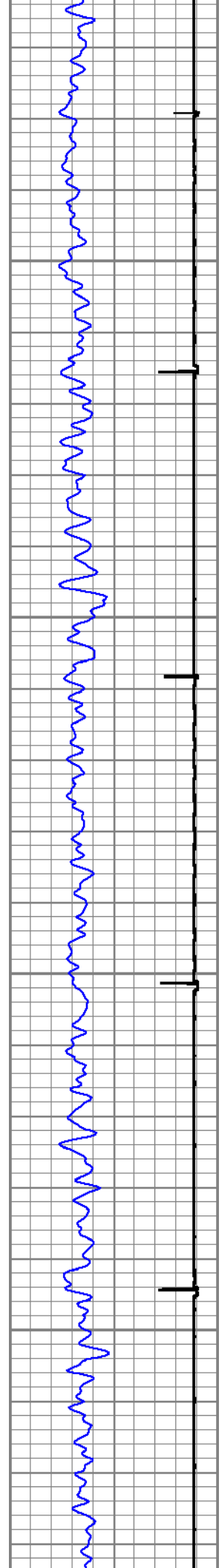






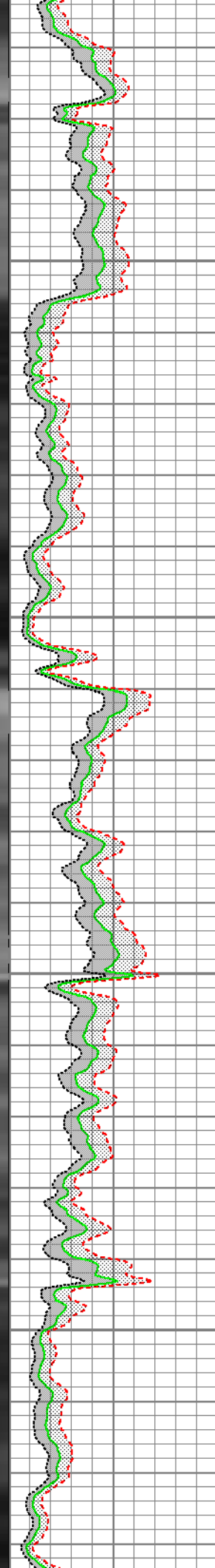
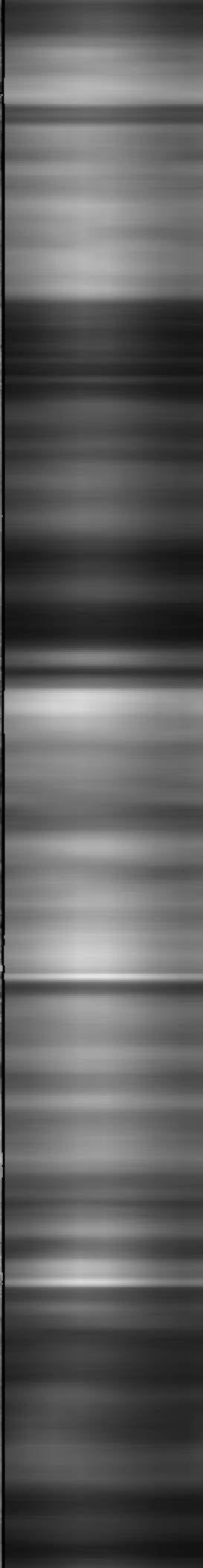
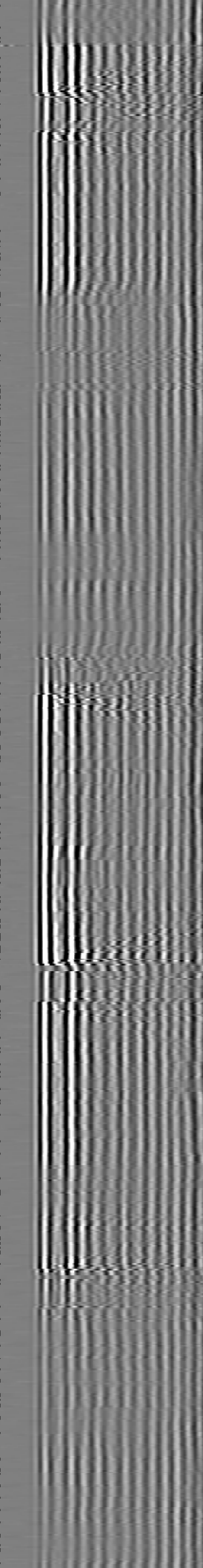
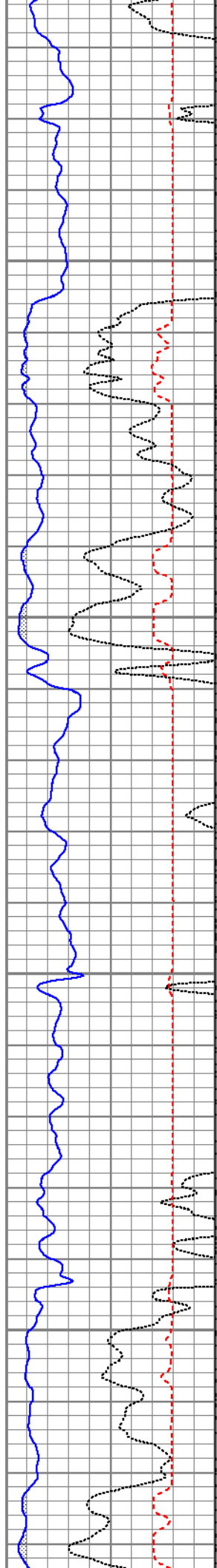


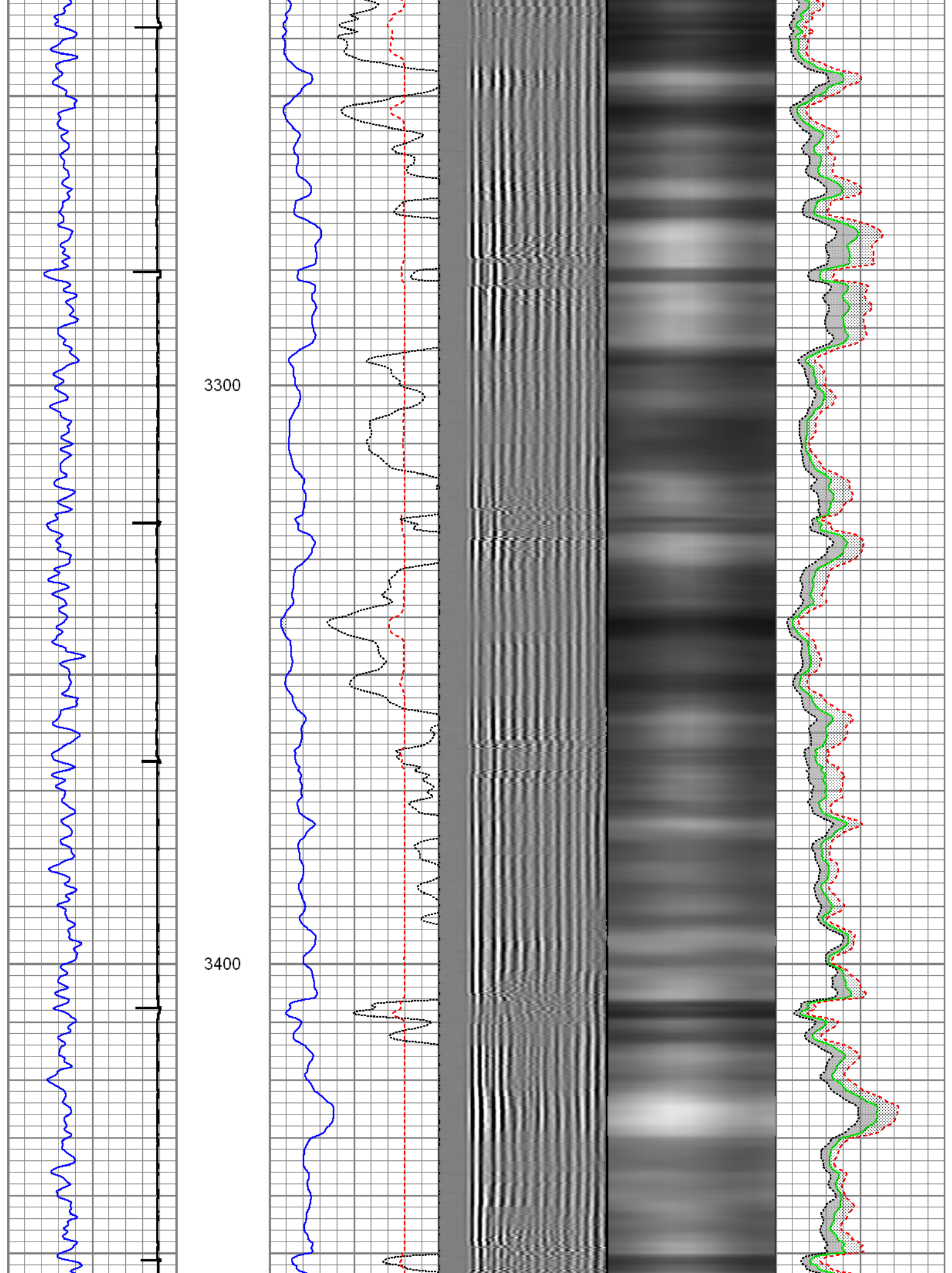


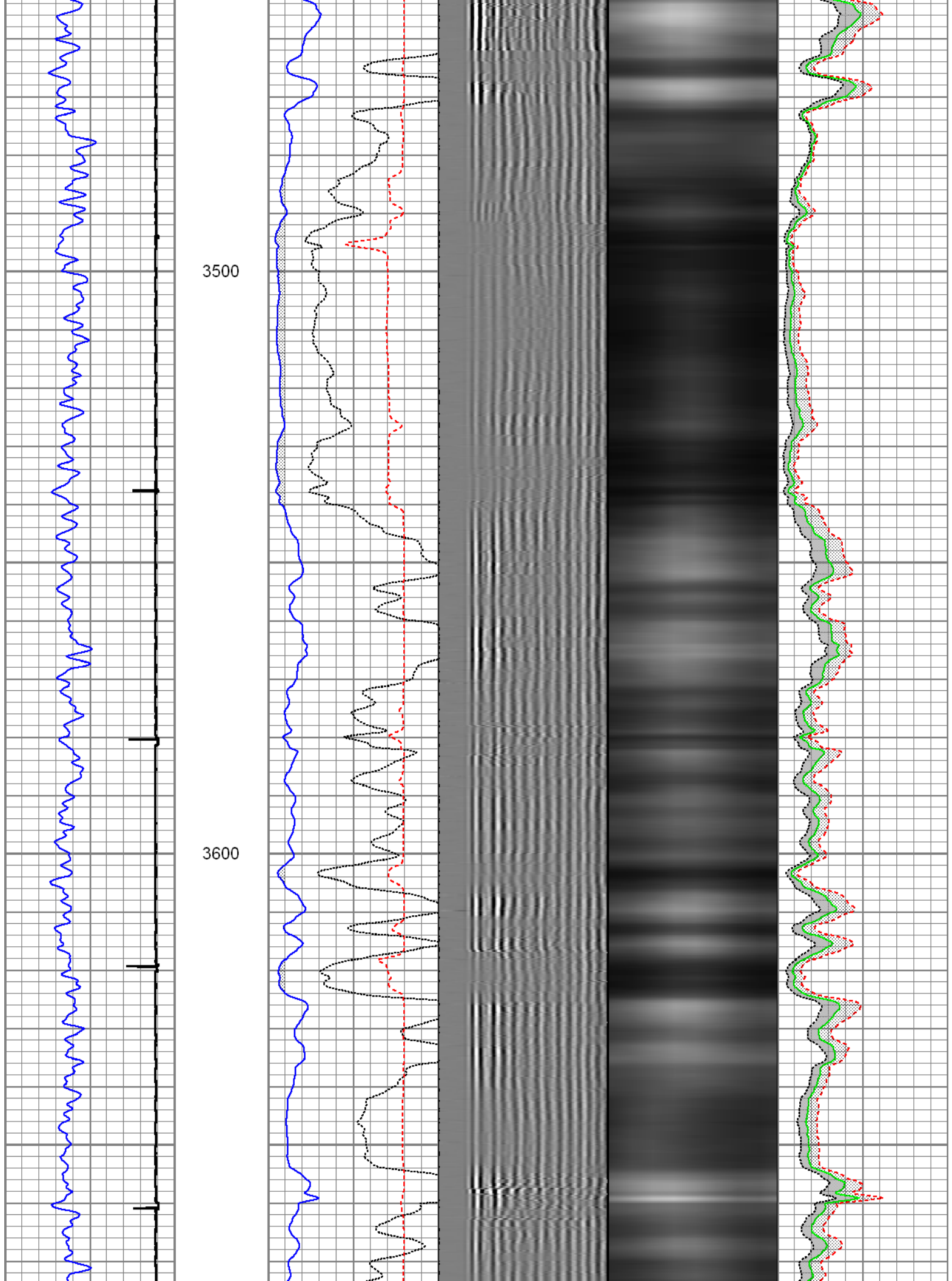


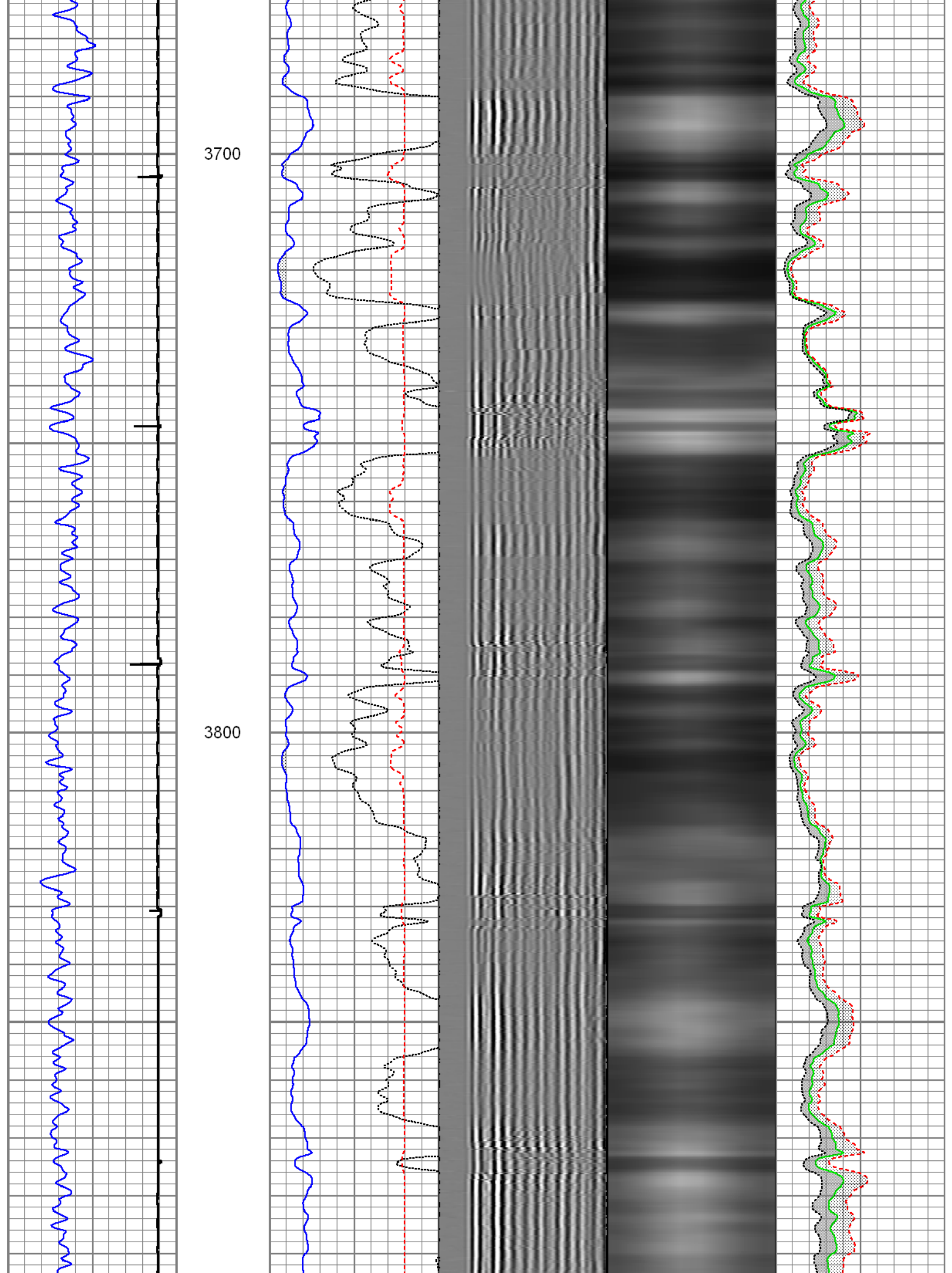
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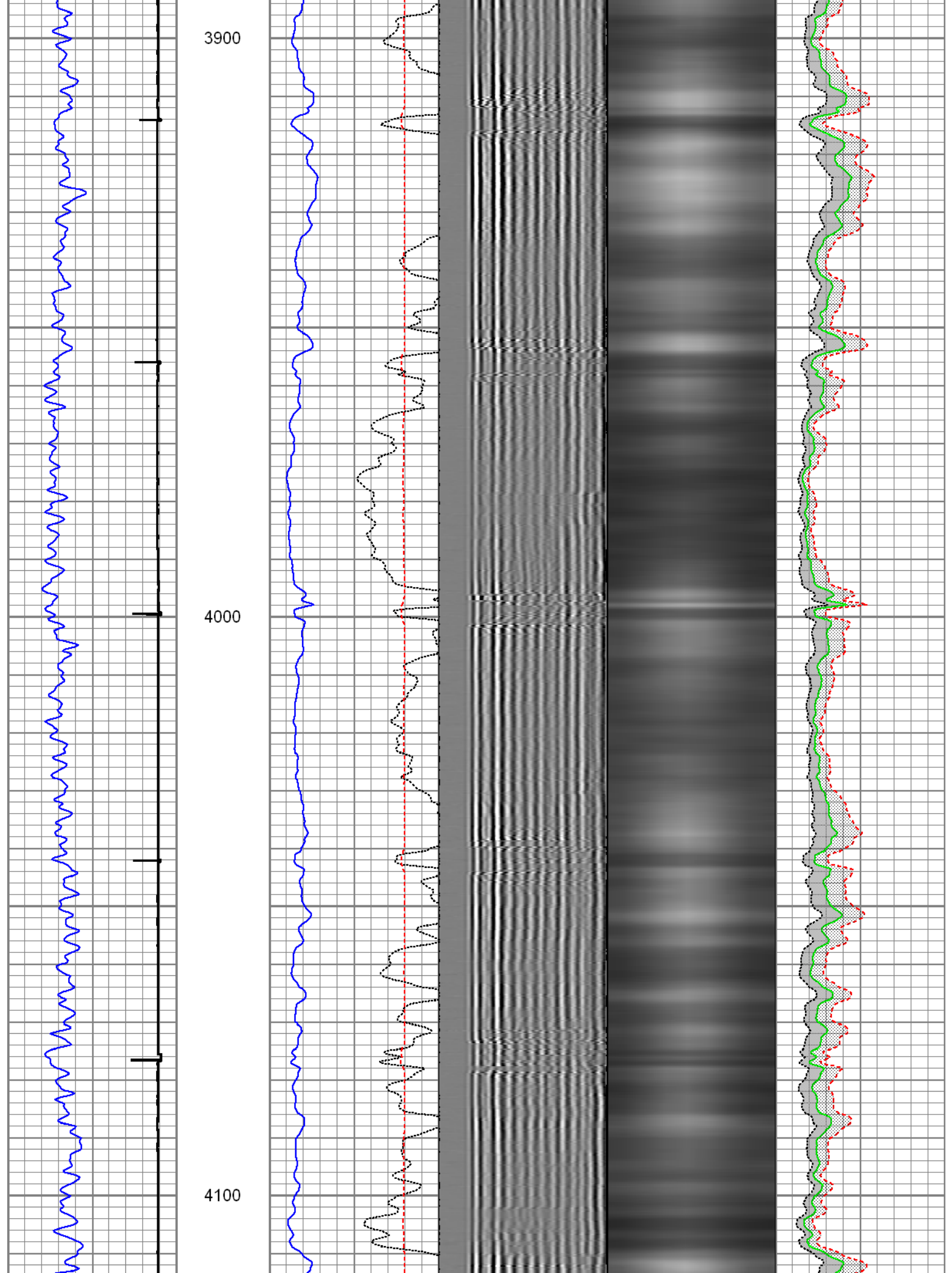
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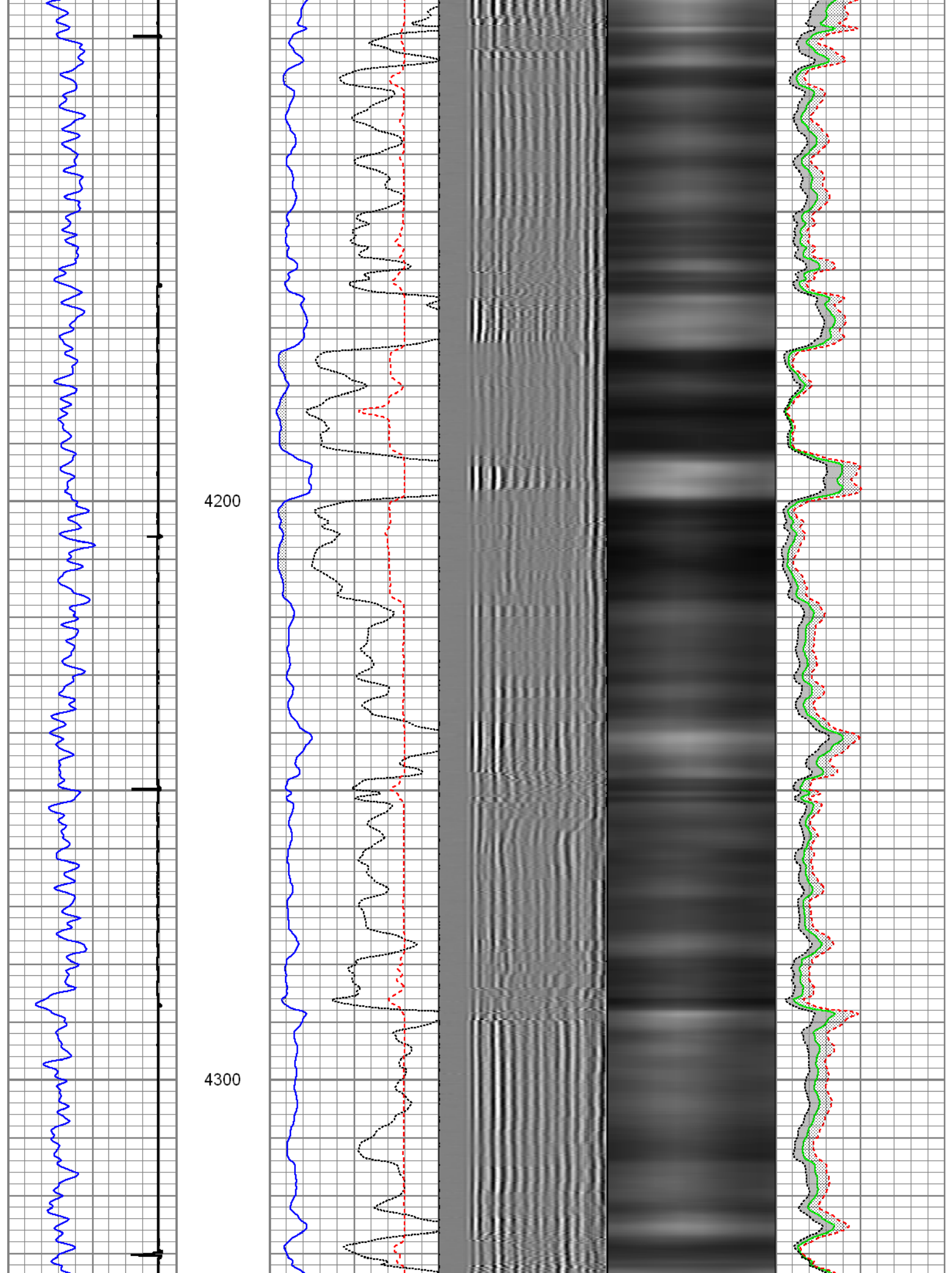


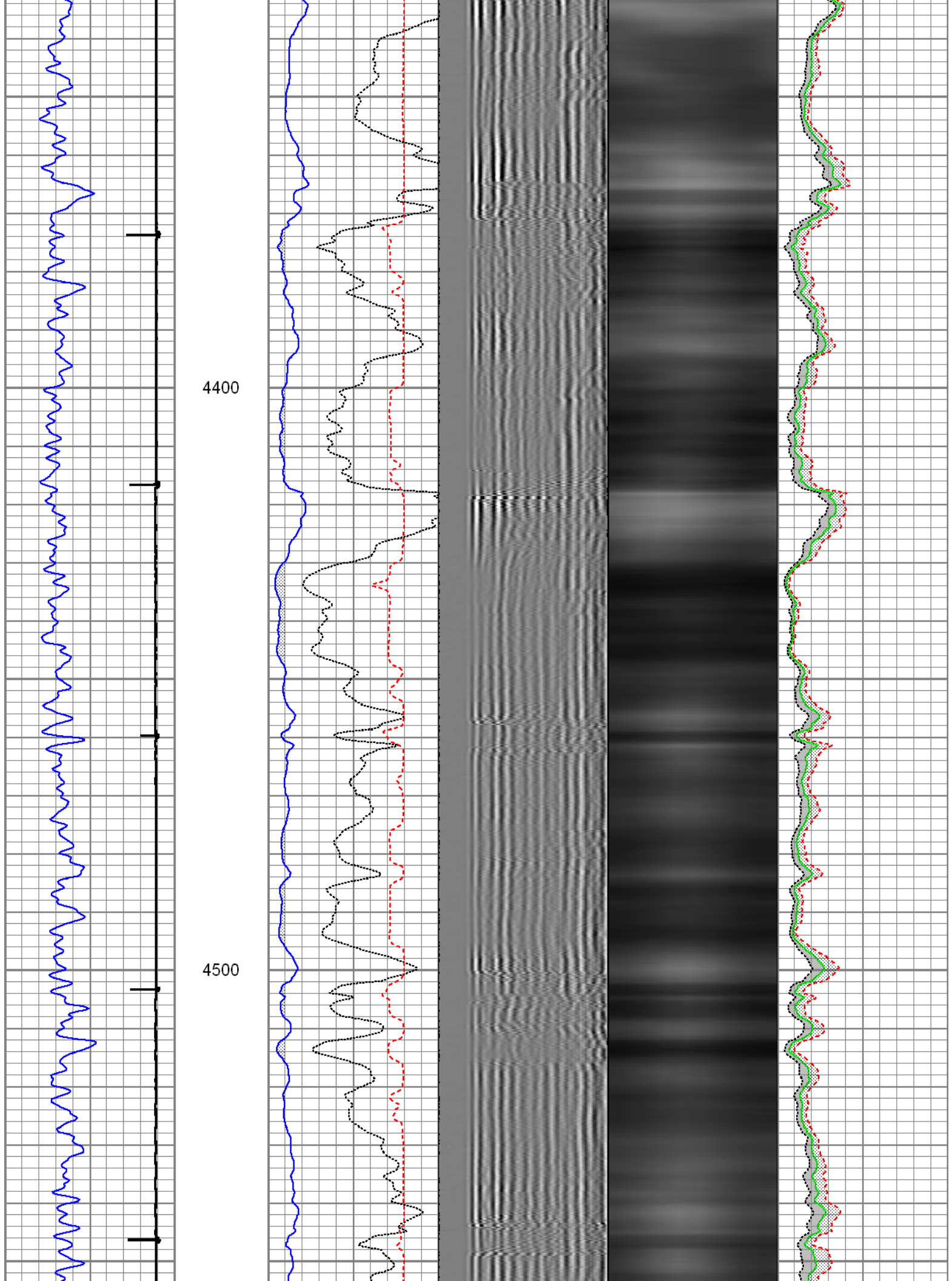


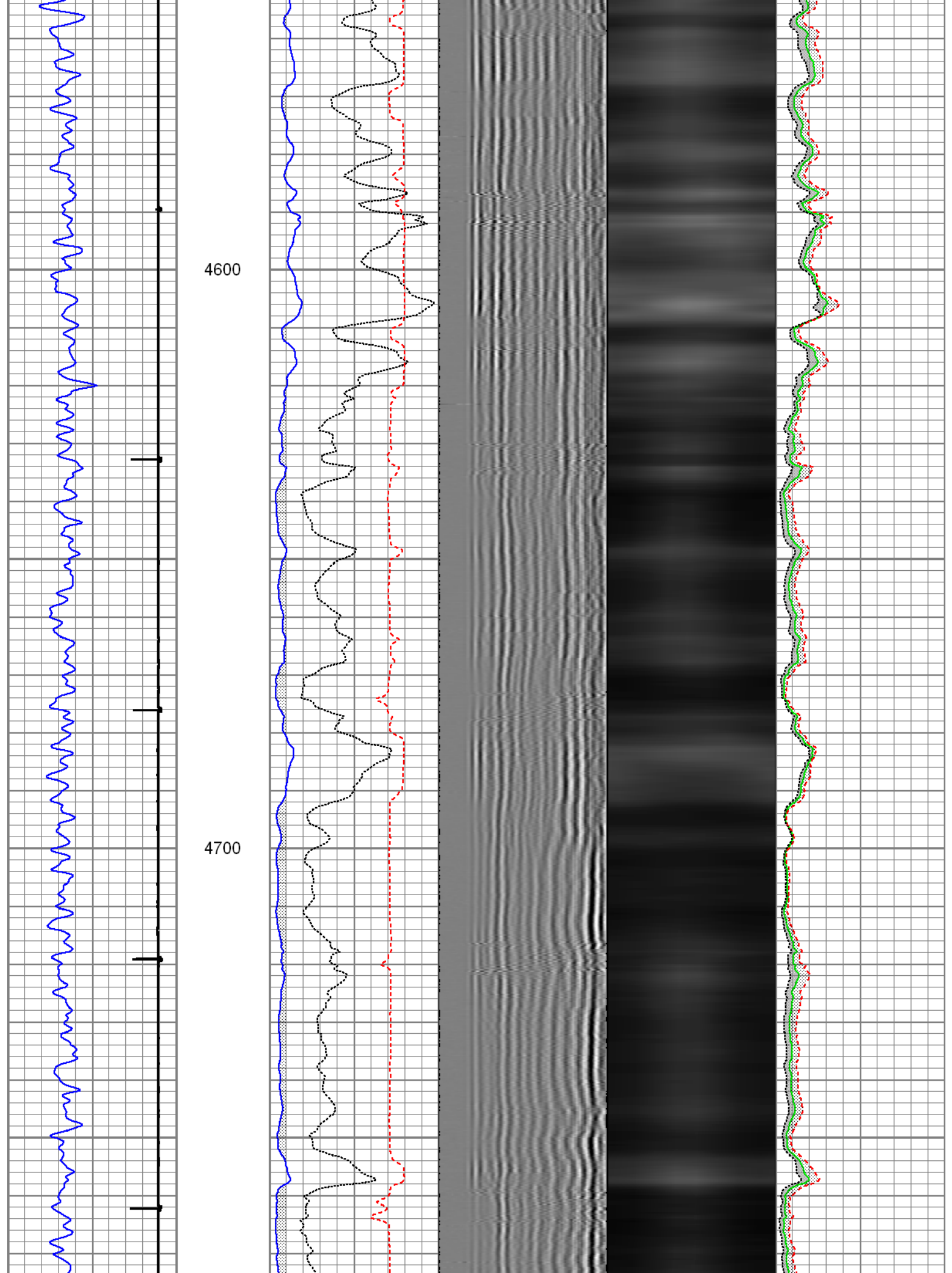


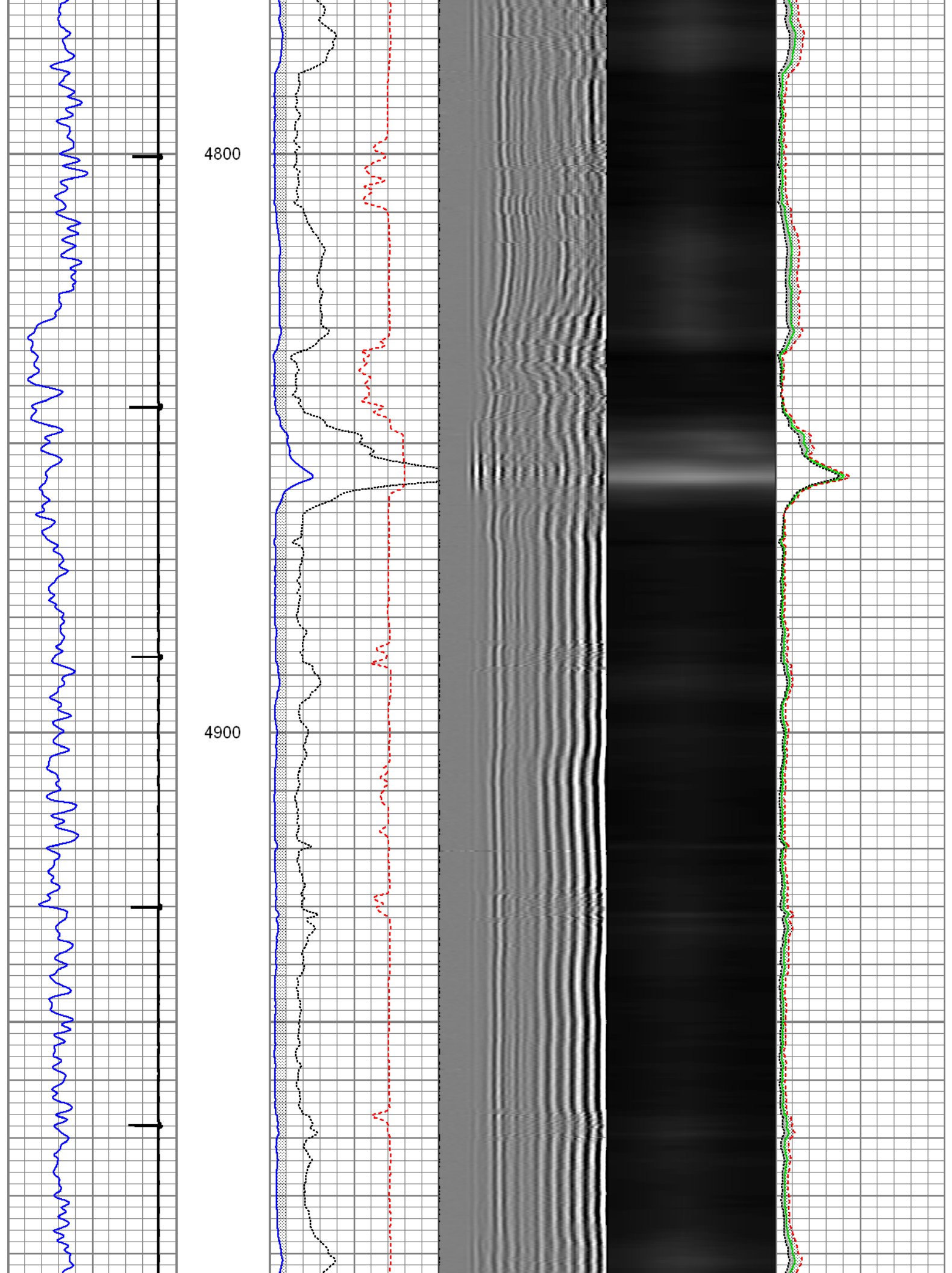


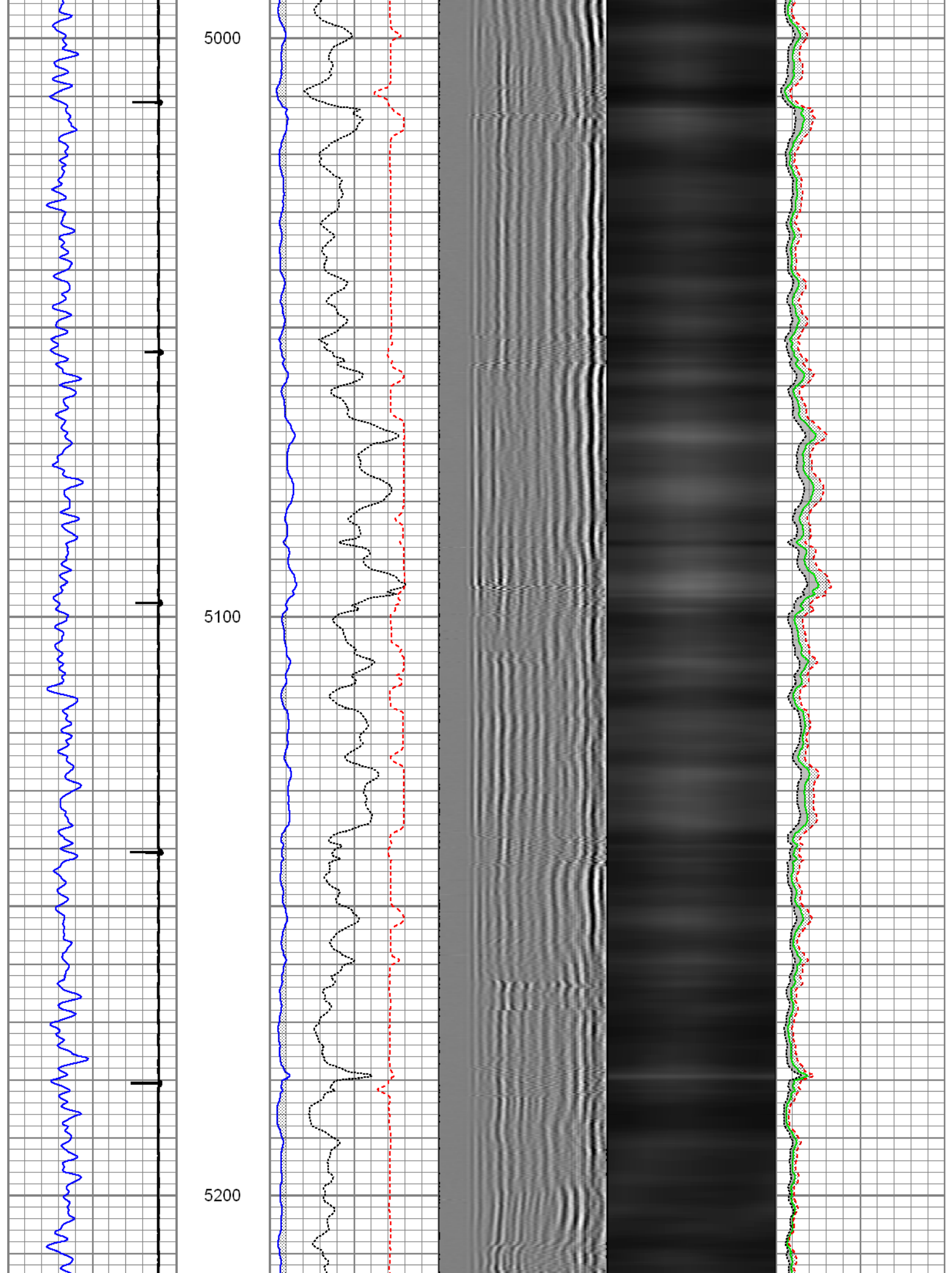


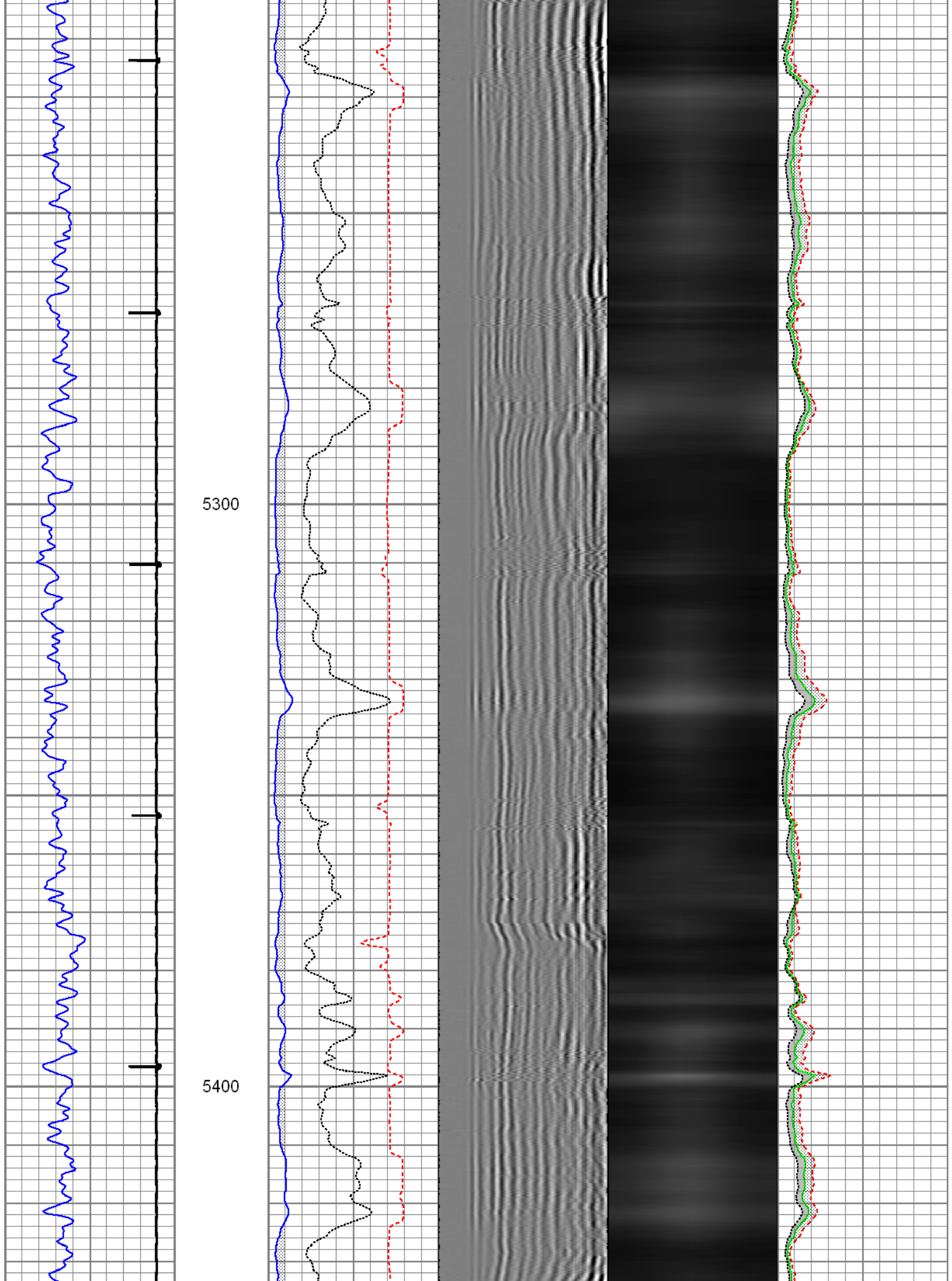


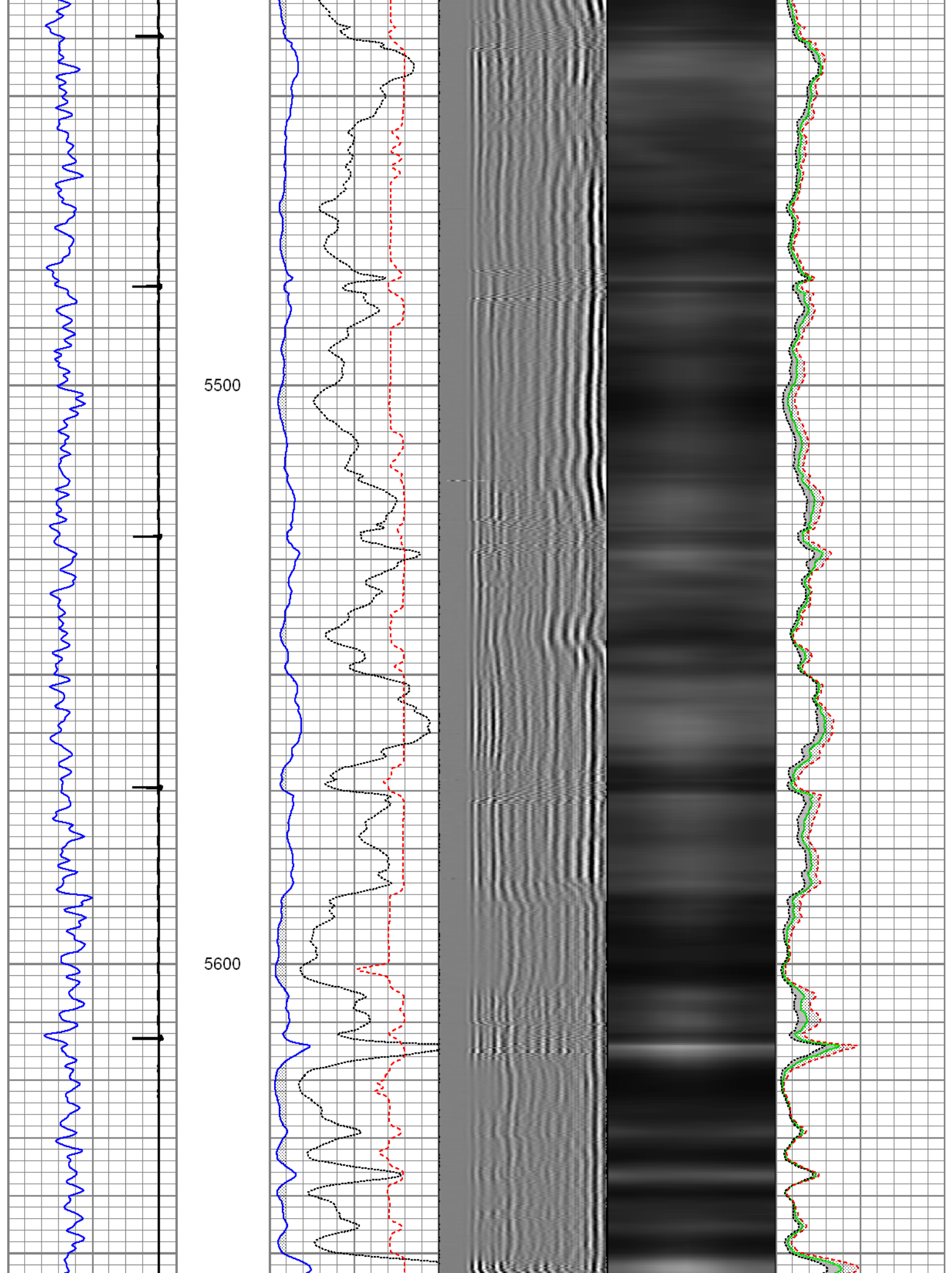


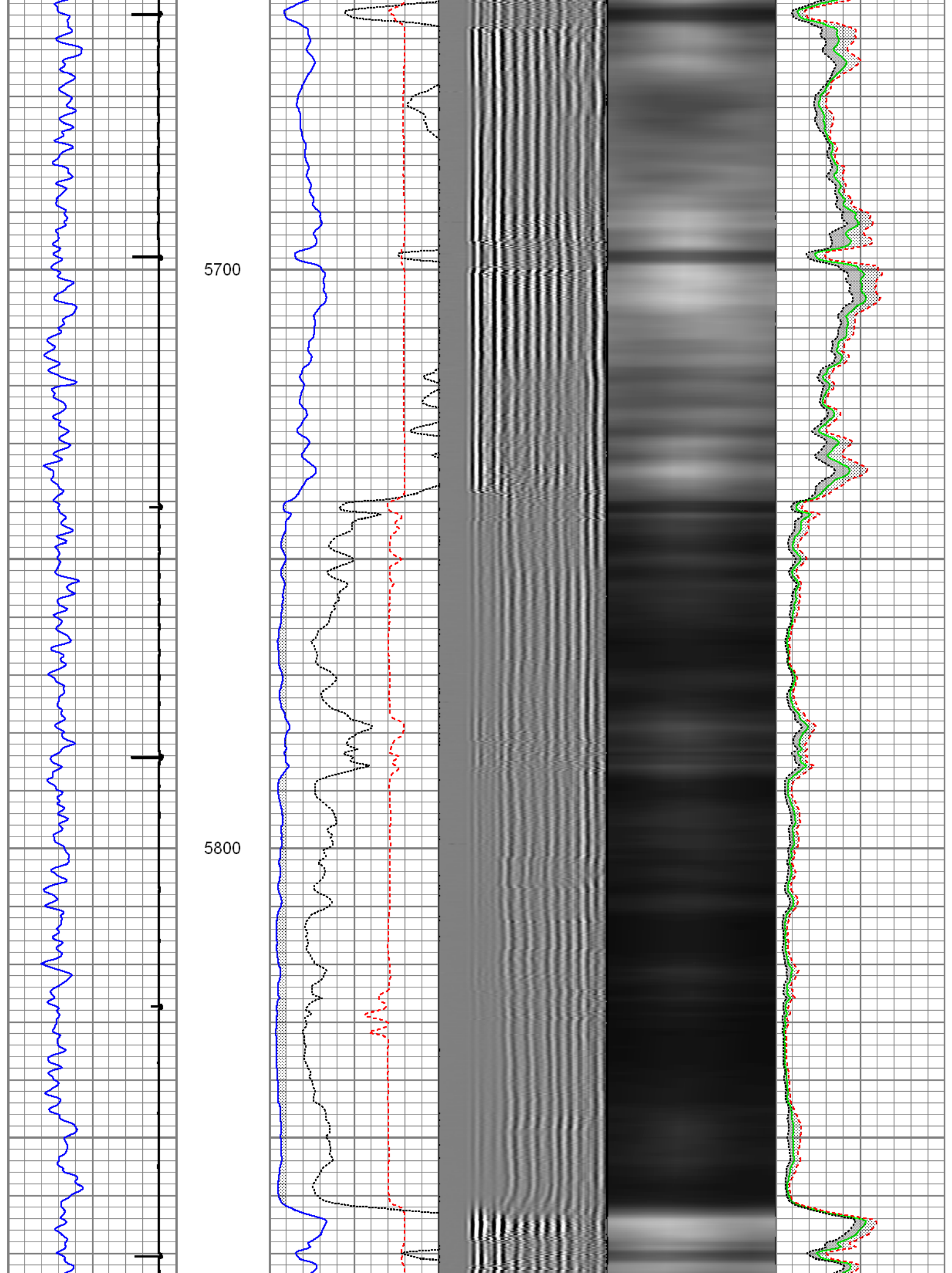


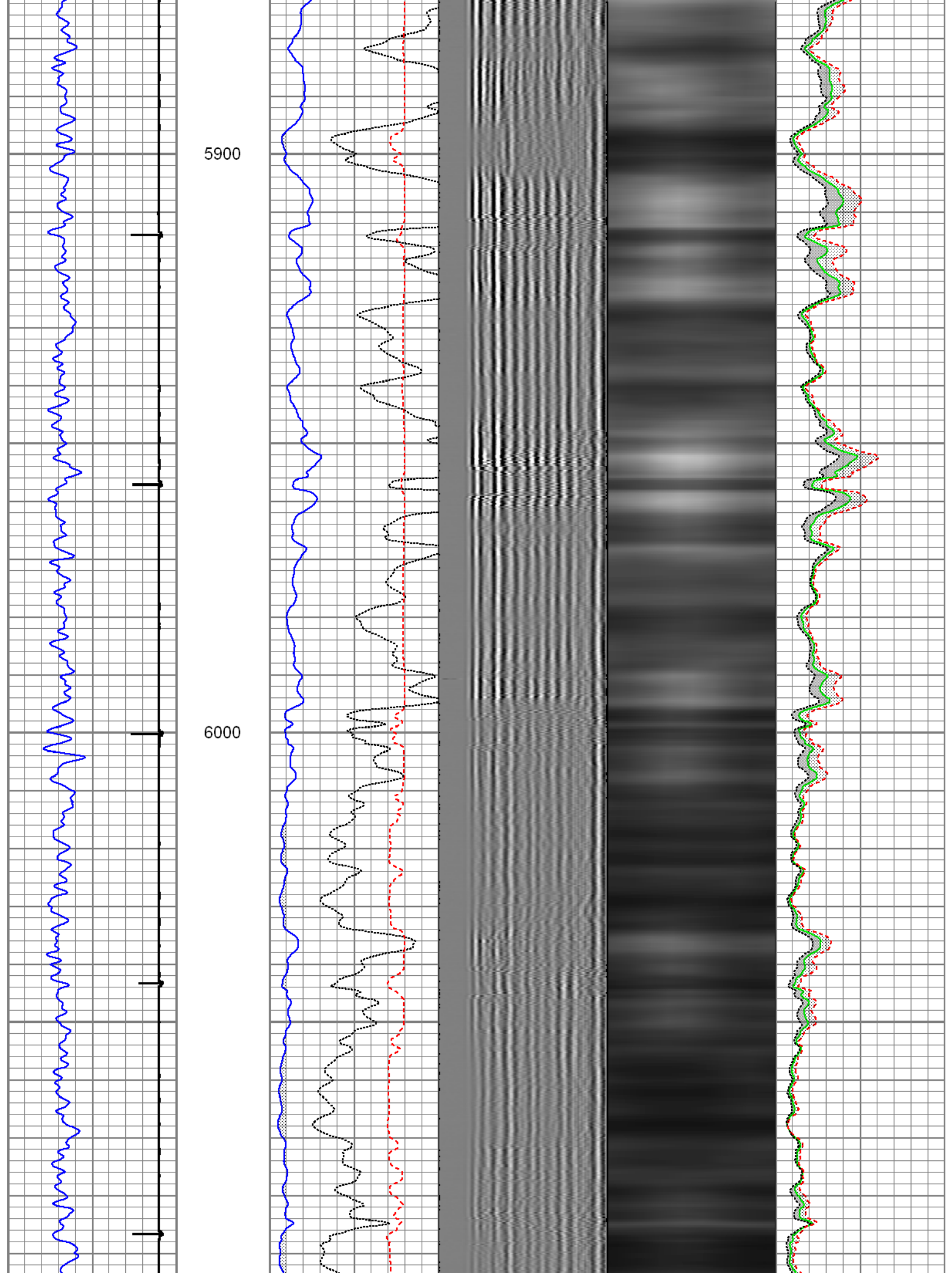


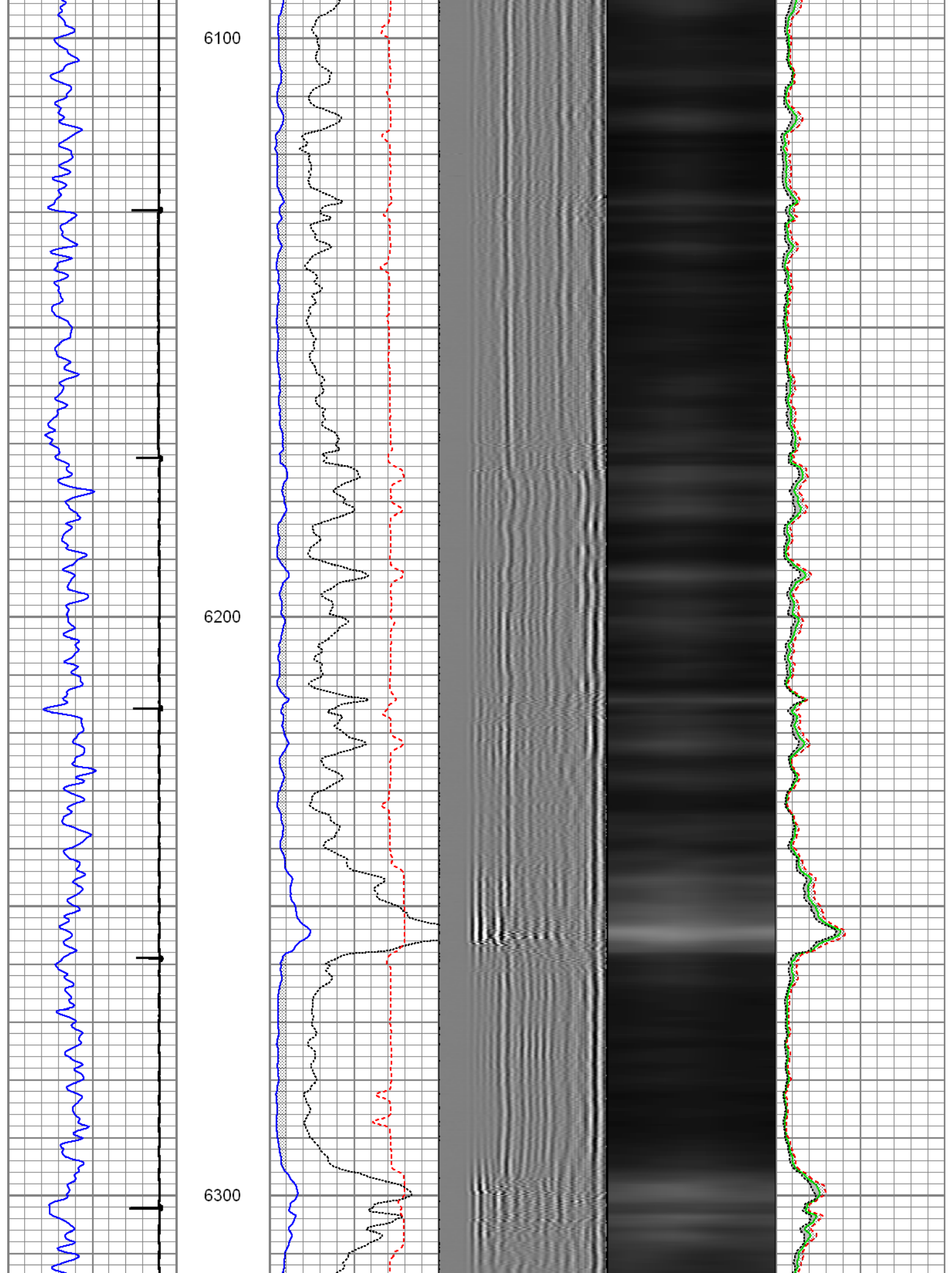


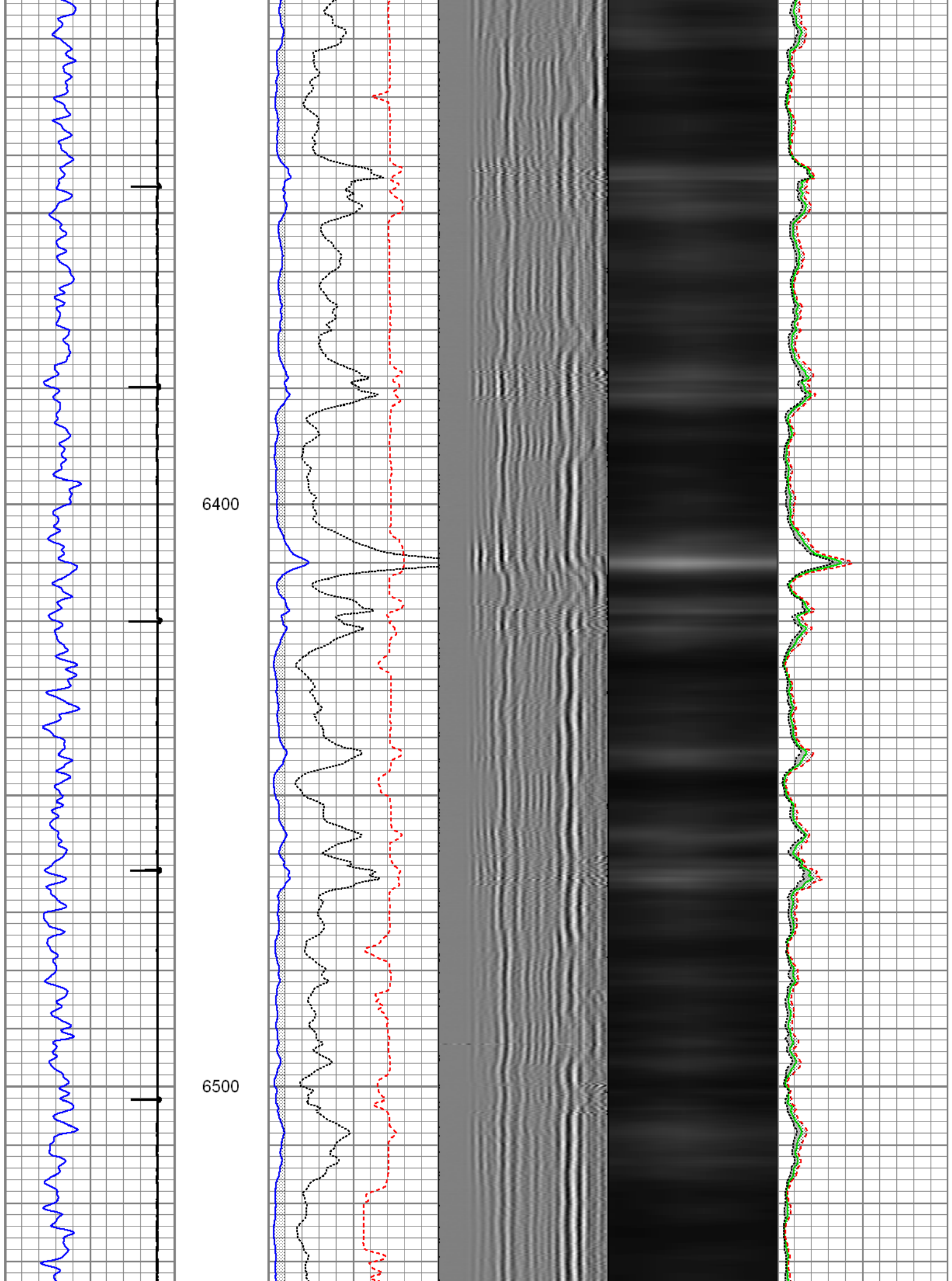


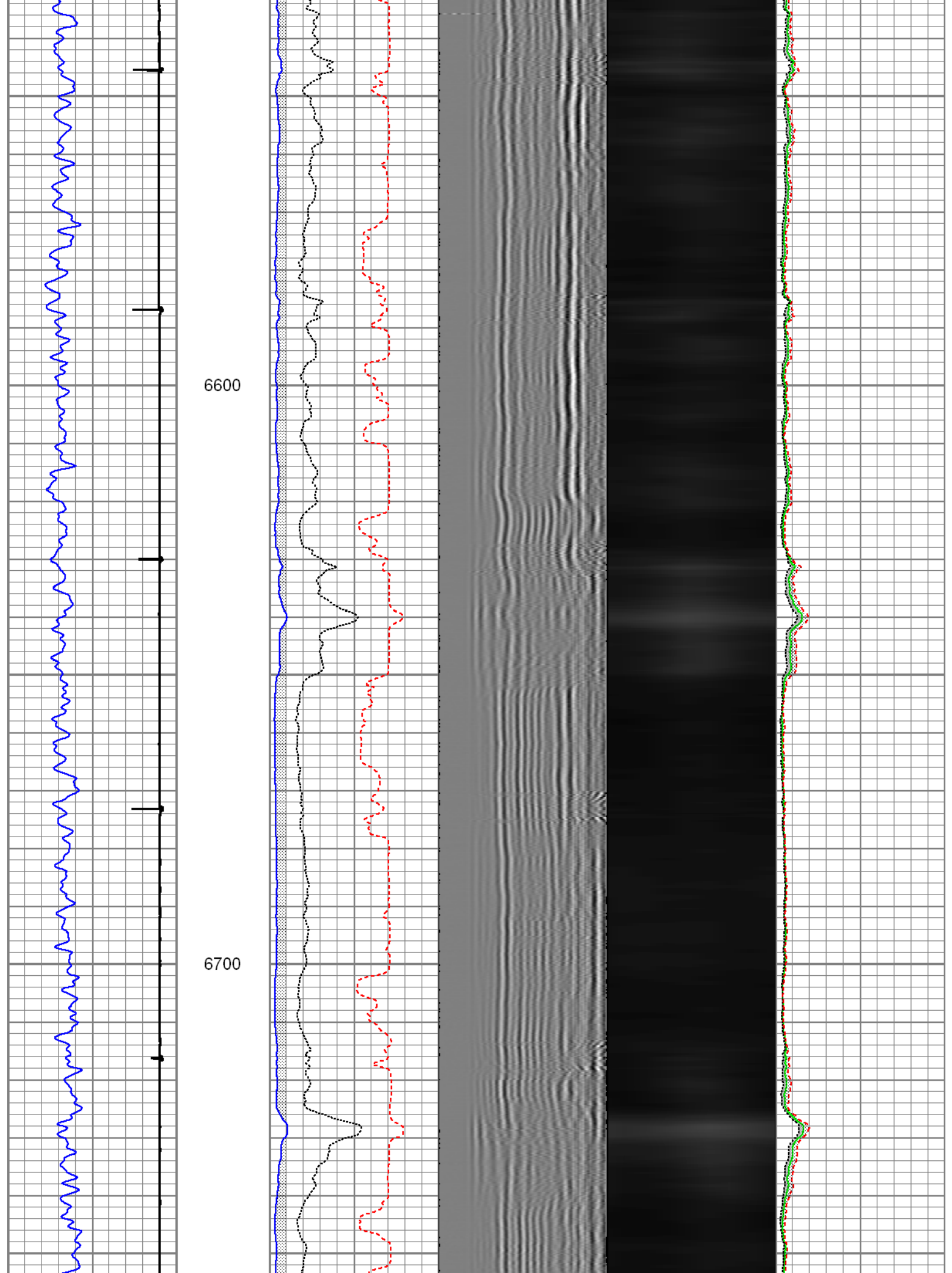


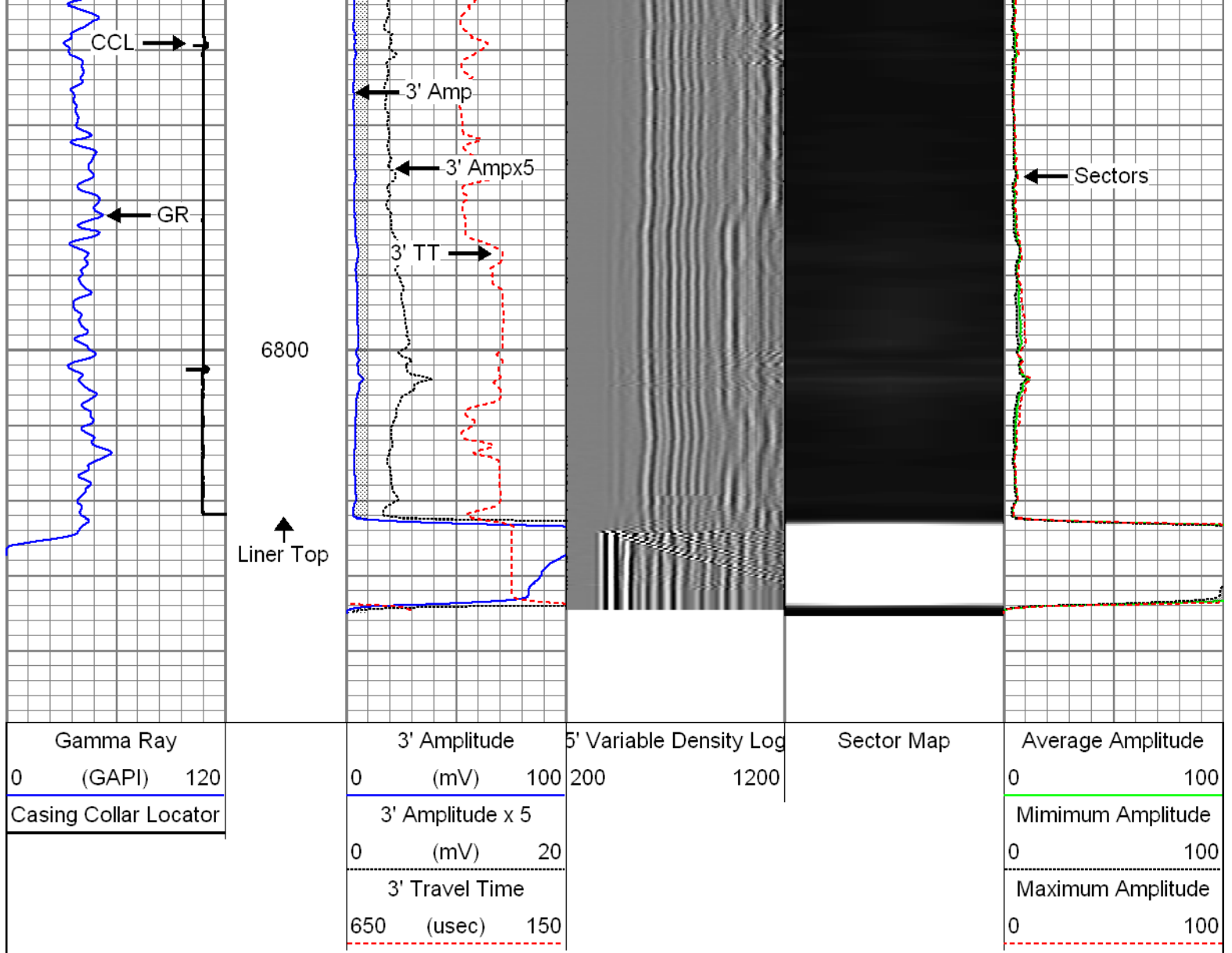








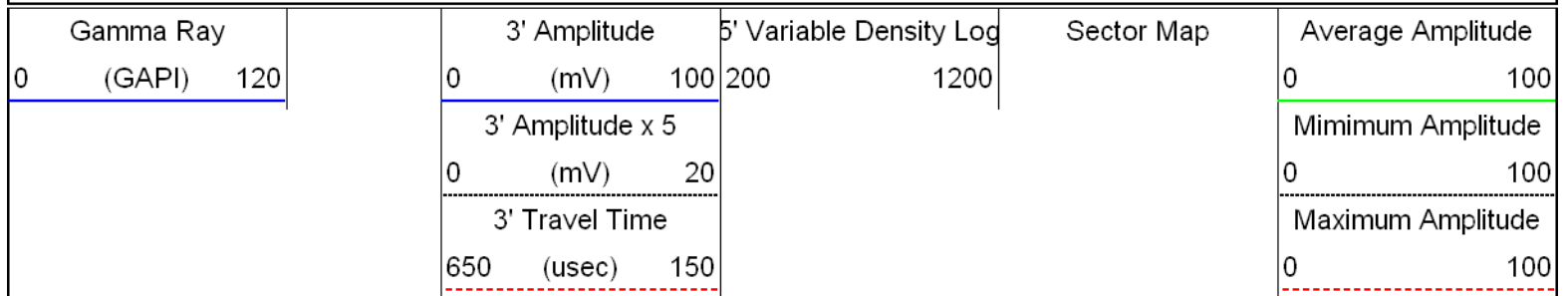




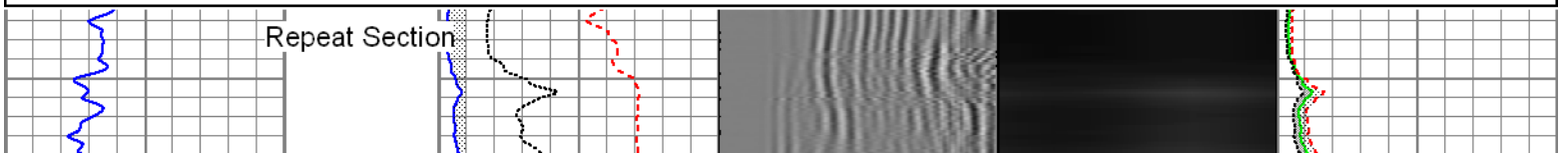
Repeat Pass

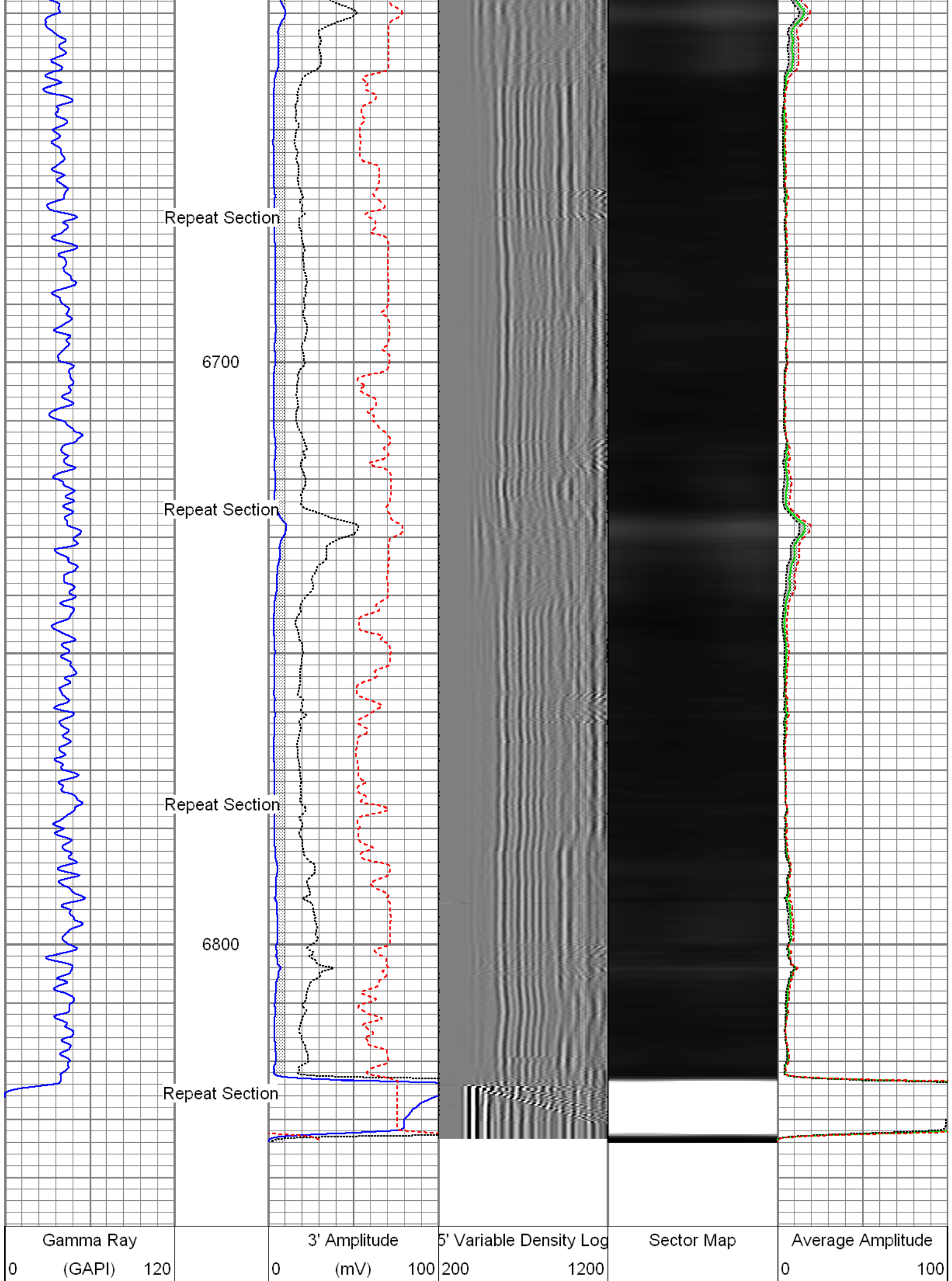
Recorded with 2800 PSI surface induced pressure.

Database File: anadarko_barefoot 32c-25hz_rcbl mit_08-july-2014.db
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 Presentation Format: rbt4_mit
 Dataset Creation: Tue Jul 08 14:24:00 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240



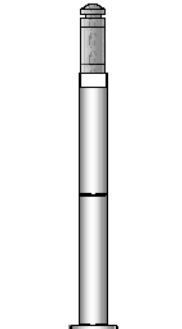
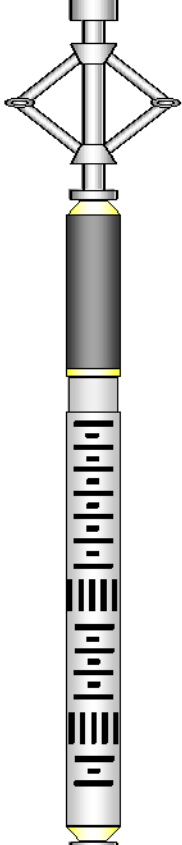
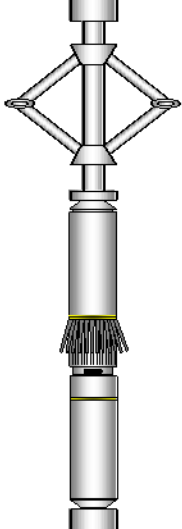
Repeat Section





3' Amplitude x 5		
0	(mV)	20
3' Travel Time		
650	(usec)	150

Minimum Amplitude	
0	100
Maximum Amplitude	
0	100

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	23.67		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 (211461) 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 -UW_PRC_057 (1037) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
WV3FT	15.85		UW_RBT-UW_RBT_004 (1066) 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					
WV5FT	14.85					
MIT	5.41		UW_PRC-UW_PRC_057 (1102) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
			UW_MIT-UW_MIT40_027 (218950) 40 Multifinger Imaging Tool	4.54	2.75	61.10
			UW_PRC #3 -UW_PRC_057 (1038) Sondex 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00

Finger 27:	1483	276.0	1759	286.0	2045	288.0	2333
Finger 28:	1471	284.0	1755	291.0	2046	291.0	2337
Finger 29:	1530	271.0	1801	275.0	2076	279.0	2355
Finger 30:	1434	285.0	1719	291.0	2010	301.0	2311
Finger 31:	1448	293.0	1741	296.0	2037	302.0	2339
Finger 32:	1507	277.0	1784	276.0	2060	279.0	2339
Finger 33:	1445	295.0	1740	298.0	2038	305.0	2343
Finger 34:	1432	288.0	1720	294.0	2014	305.0	2319
Finger 35:	1497	267.0	1764	270.0	2034	276.0	2310
Finger 36:	1481	275.0	1756	282.0	2038	291.0	2329
Finger 37:	1450	285.0	1735	294.0	2029	301.0	2330
Finger 38:	1520	256.0	1776	263.0	2039	273.0	2312
Finger 39:	1472	276.0	1748	282.0	2030	291.0	2321
Finger 40:	1413	286.0	1699	300.0	1999	309.0	2308

Post Survey Calibration Check
Performed: Tue Jul 08 17:06:32 2014

Ring size: (in)	4	Nom. wear	5	Nom. wear	6	Nom. wear	7	Nom. wear
Finger 01:	4.003	0.001	5.000	-0.000	6.000	-0.000	7.000	-0.000
Finger 02:	4.011	0.006	5.005	0.002	6.005	0.003	7.000	-0.000
Finger 03:	4.009	0.004	5.002	0.001	6.001	0.000	7.003	0.001
Finger 04:	4.015	0.008	5.002	0.001	6.004	0.002	6.999	-0.001
Finger 05:	4.008	0.004	5.003	0.001	6.002	0.001	7.002	0.001
Finger 06:	4.011	0.005	5.009	0.005	6.007	0.004	7.001	0.000
Finger 07:	4.001	0.001	5.000	0.000	5.996	-0.002	6.995	-0.003
Finger 08:	4.007	0.003	5.009	0.004	6.005	0.002	6.999	-0.000
Finger 09:	4.012	0.006	5.003	0.002	6.000	-0.000	6.997	-0.002
Finger 10:	4.007	0.003	5.005	0.003	6.003	0.002	7.002	0.001
Finger 11:	4.018	0.009	5.000	0.000	6.002	0.001	7.000	0.000
Finger 12:	4.005	0.003	5.002	0.001	5.999	-0.001	7.002	0.001
Finger 13:	4.016	0.008	4.998	-0.001	5.999	-0.000	6.999	-0.000
Finger 14:	4.008	0.004	5.000	0.000	6.003	0.001	7.001	0.001
Finger 15:	4.012	0.006	5.003	0.001	6.003	0.002	7.001	0.000
Finger 16:	4.013	0.007	5.005	0.003	6.003	0.002	7.001	0.000
Finger 17:	4.018	0.009	5.011	0.005	6.010	0.005	7.007	0.003
Finger 18:	3.998	-0.001	5.002	0.001	5.999	-0.000	6.999	-0.000
Finger 19:	4.009	0.004	5.004	0.002	5.999	-0.001	6.996	-0.002
Finger 20:	4.003	0.002	5.006	0.003	6.005	0.002	7.002	0.001
Finger 21:	4.009	0.004	5.001	0.000	6.001	0.000	6.995	-0.003
Finger 22:	4.002	0.001	5.001	0.000	5.997	-0.001	6.998	-0.001
Finger 23:	4.010	0.005	5.001	0.001	5.995	-0.002	6.997	-0.002
Finger 24:	4.010	0.005	5.002	0.001	5.999	-0.001	7.001	0.000
Finger 25:	4.007	0.004	5.005	0.002	5.999	-0.001	6.998	-0.001
Finger 26:	4.014	0.007	5.008	0.004	6.005	0.003	7.002	0.001
Finger 27:	4.009	0.005	5.007	0.003	6.003	0.002	7.001	0.001
Finger 28:	4.003	0.001	5.002	0.001	5.998	-0.001	7.004	0.002
Finger 29:	4.011	0.005	5.000	-0.000	6.006	0.003	6.999	-0.001
Finger 30:	4.008	0.004	5.002	0.001	6.004	0.002	6.998	-0.001
Finger 31:	4.014	0.007	5.000	-0.000	6.004	0.002	6.996	-0.002
Finger 32:	4.008	0.004	5.004	0.002	6.004	0.002	7.003	0.002
Finger 33:	4.018	0.009	5.005	0.003	6.007	0.004	7.002	0.001
Finger 34:	4.012	0.006	5.003	0.002	6.001	0.000	7.002	0.001
Finger 35:	4.011	0.005	5.005	0.002	6.001	0.000	6.999	-0.001
Finger 36:	4.015	0.007	5.006	0.003	6.000	0.000	6.999	-0.000
Finger 37:	4.006	0.003	5.003	0.001	6.000	0.000	7.000	-0.000
Finger 38:	4.003	0.002	5.006	0.003	6.002	0.001	7.005	0.002
Finger 39:	4.002	0.001	4.999	-0.000	5.995	-0.003	6.991	-0.005
Finger 40:	4.010	0.005	5.004	0.002	5.998	-0.001	7.001	0.001
Average:	4.009	0.005	5.003	0.002	6.002	0.001	7.000	-0.000

Segmented Cement Bond Log Calibration Report

Serial Number: 1000
Tool Model: UW_RBT_004

Calibration Casing Diameter: 5.500 in
Calibration Depth: 1771.562 ft

Master Calibration, performed Tue Jul 08 12:36:16 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.833	0.800	62.200	74.018	0.537
5FT	-0.002	0.823	0.800	62.200	74.407	0.982
S1	0.005	0.798	0.000	100.000	126.138	-0.611
S2	0.004	0.783	0.000	100.000	128.381	-0.464
S3	0.003	0.781	0.000	100.000	128.609	-0.381
S4	0.002	0.810	0.000	100.000	123.883	-0.289
S5	0.004	0.848	0.000	100.000	118.414	-0.434
S6	0.002	0.891	0.000	100.000	112.514	-0.275
S7	0.004	0.908	0.000	100.000	110.619	-0.405
S8	0.003	0.859	0.000	100.000	116.890	-0.401

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 Barefoot 32C-25HZ
Field Wattenberg
County Weld
State Colorado