

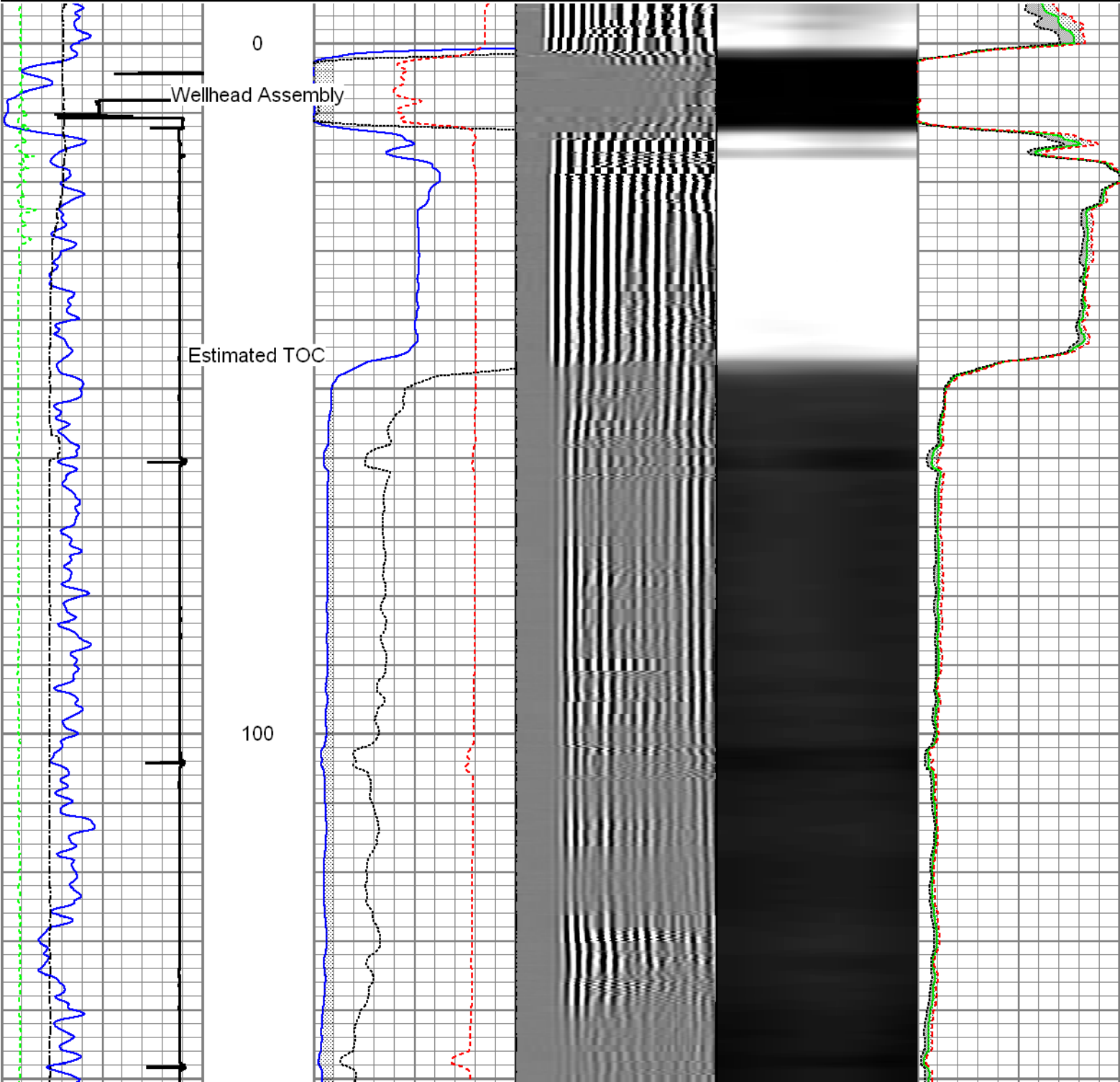


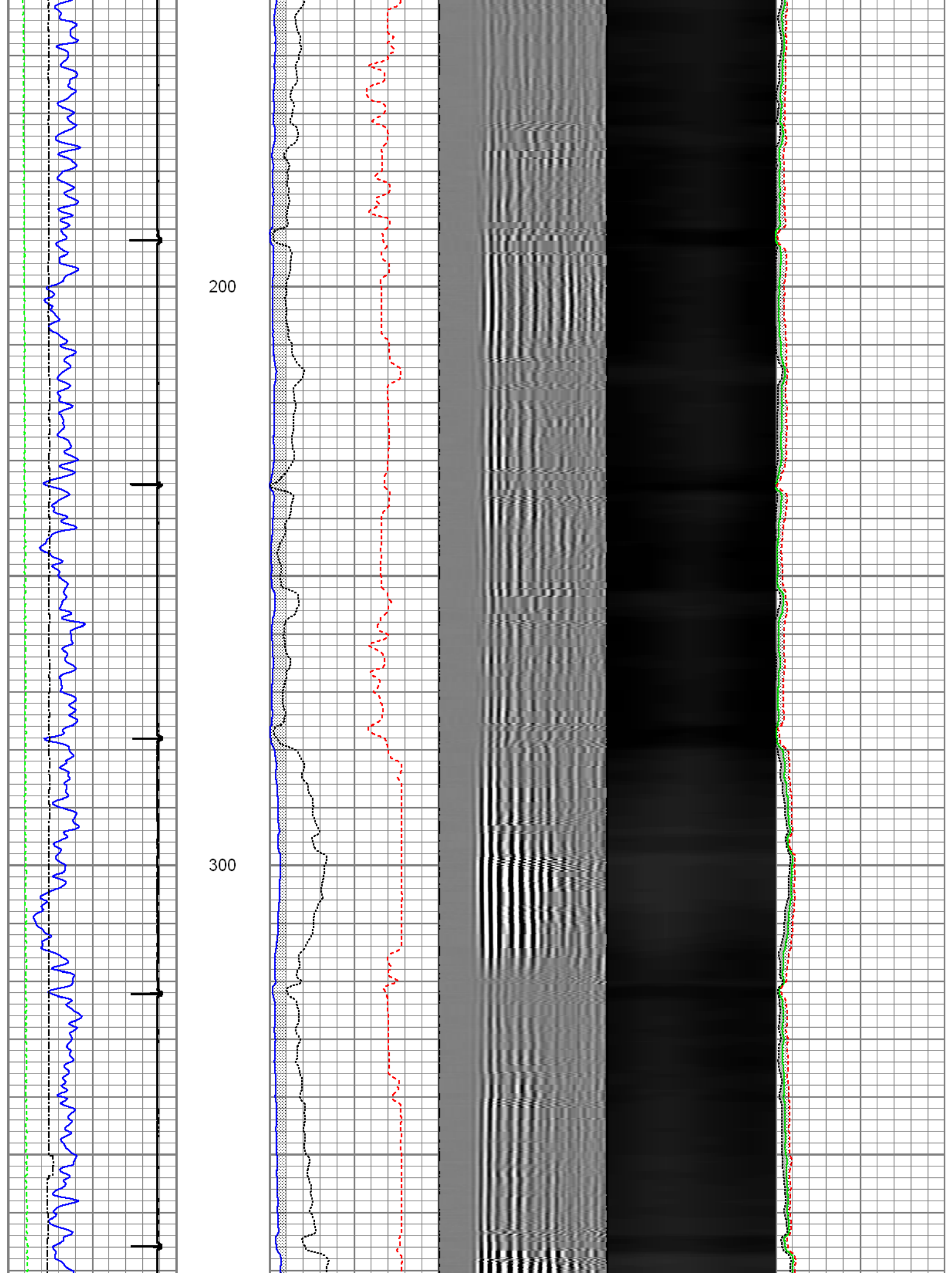
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 6705 FT. Adjusted -6 FT to correlate to liner top. Gauge Ring/Junk Basket ran to 7298 FT. Log ran from as deep as possible to surface. Log ran with 2800 PSI surface induced pressure. Logging tools were clean and free of any debris upon completion of operations. Thank you for choosing FMC Technologies Completion Services, Inc.!!

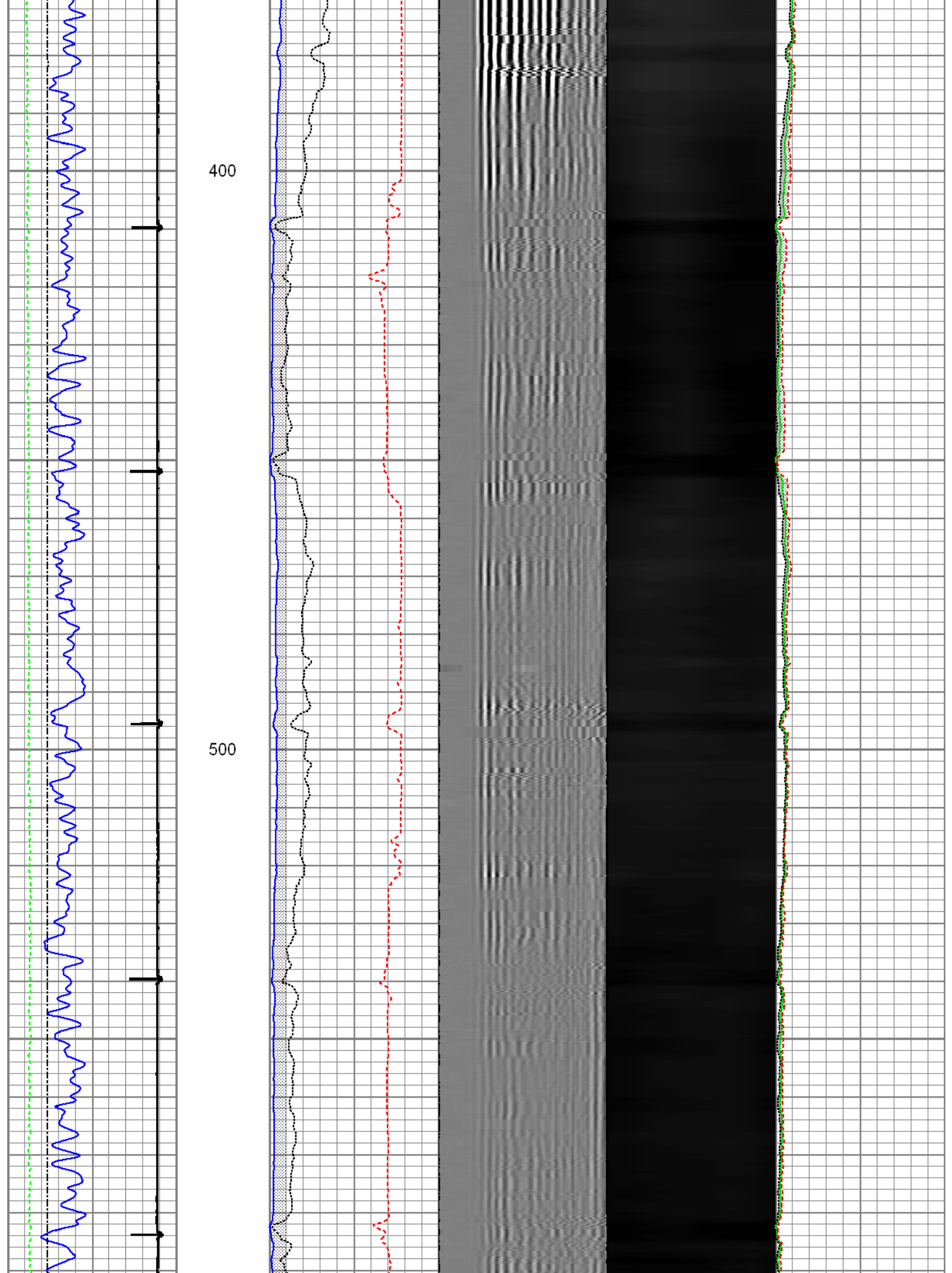


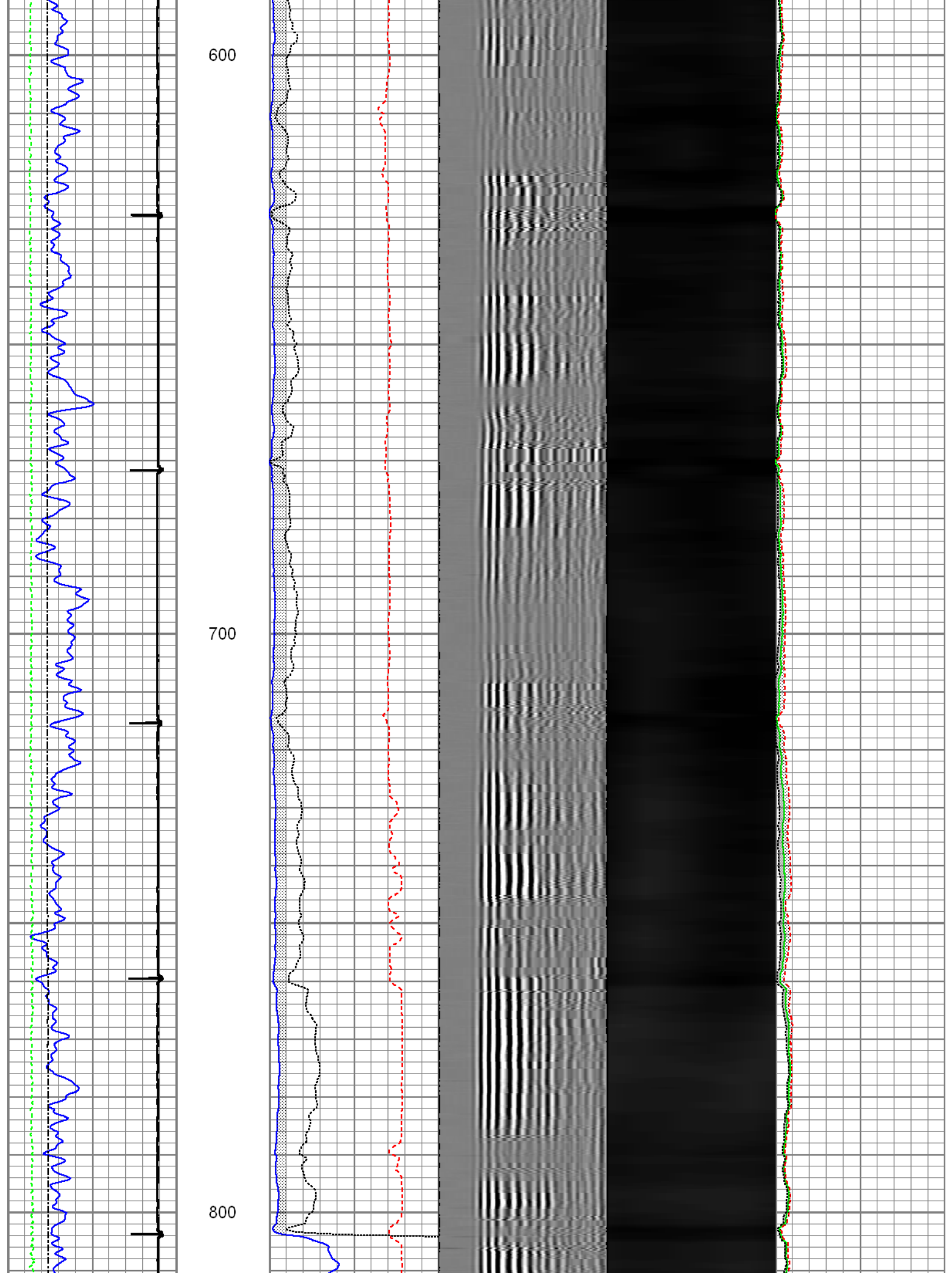
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Dataset Pathname: 7main.1
Presentation Format: rbt4_mit
Dataset Creation: Tue Oct 14 17:42:52 2014 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

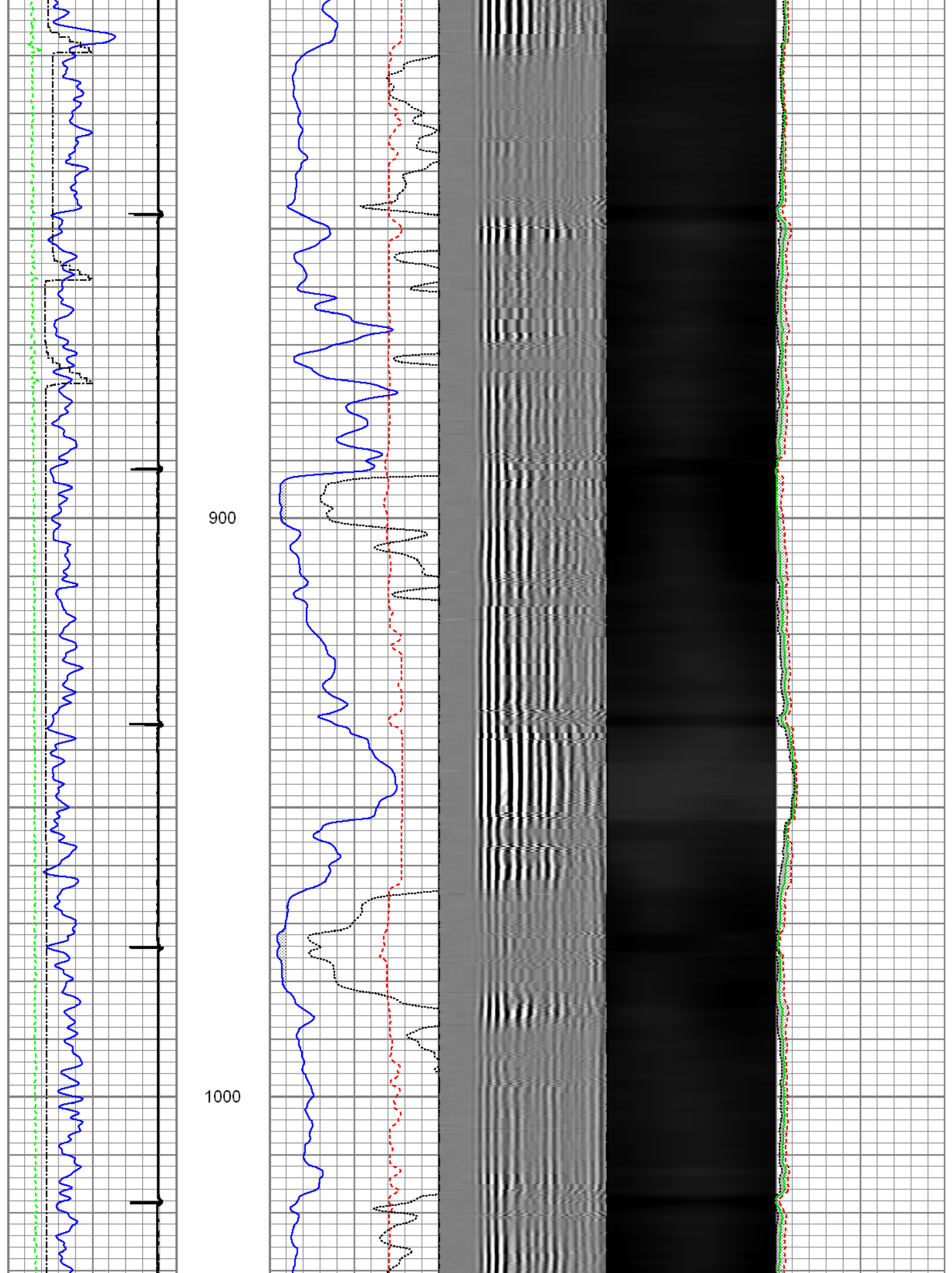
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				

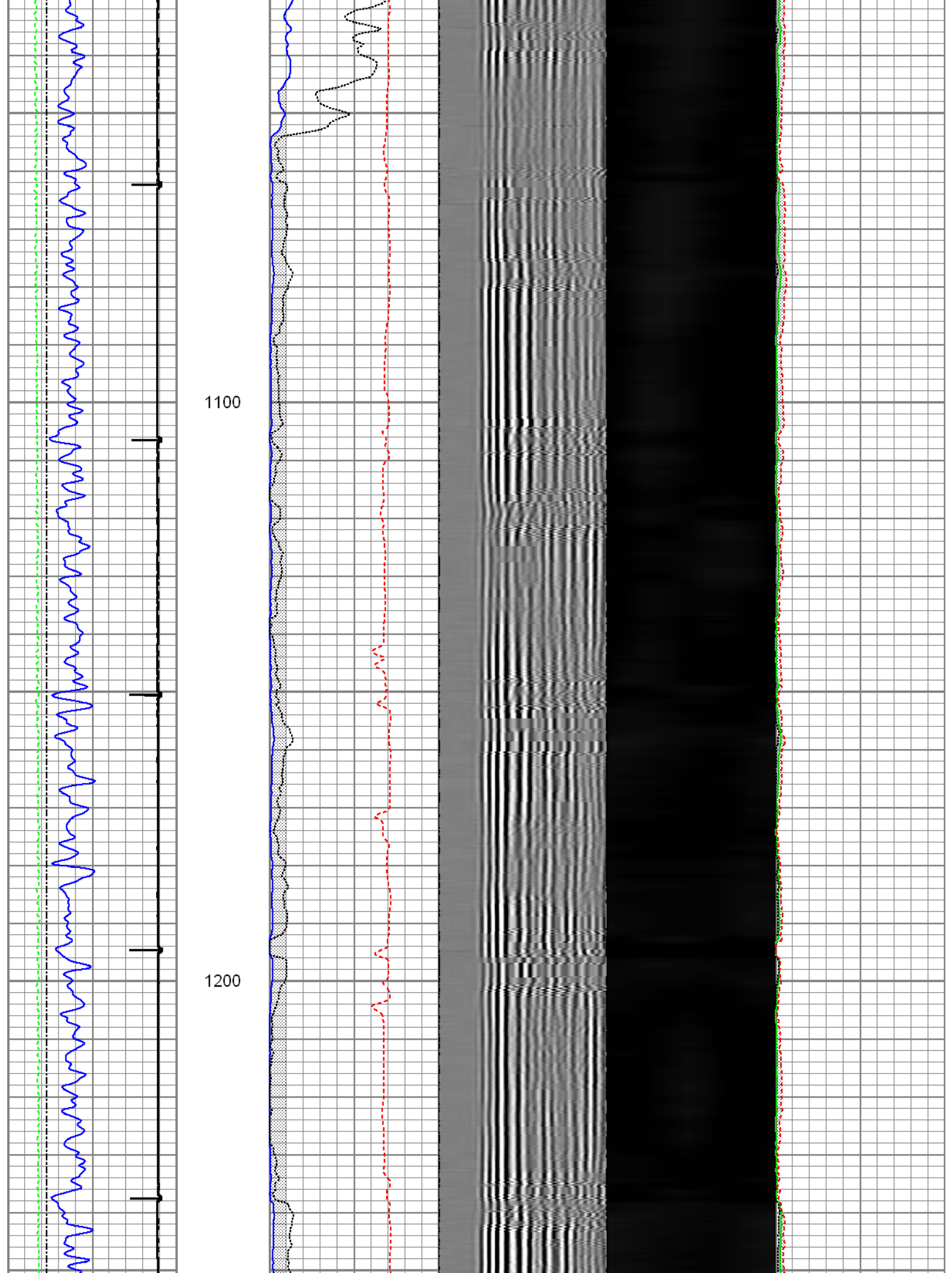


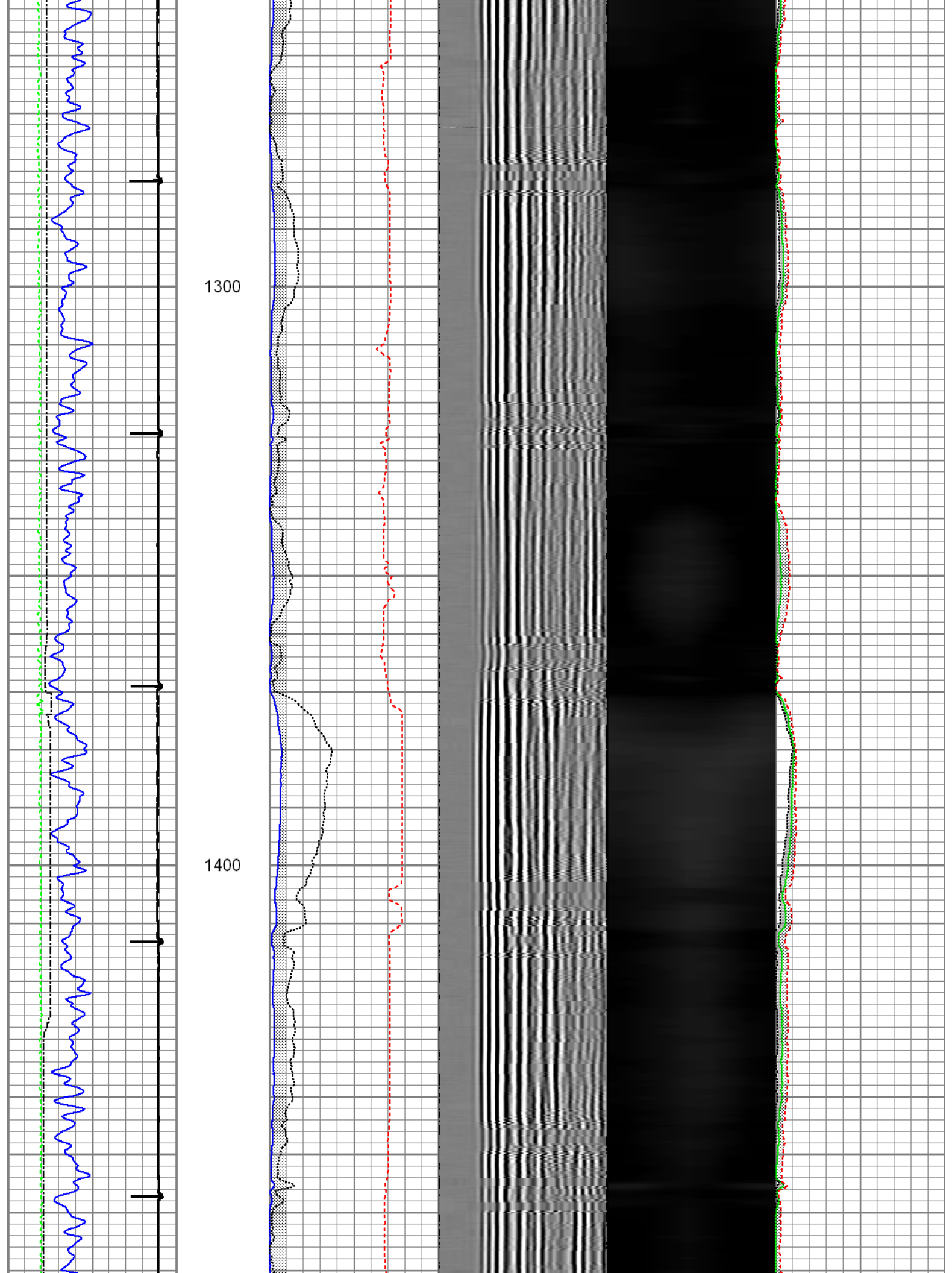


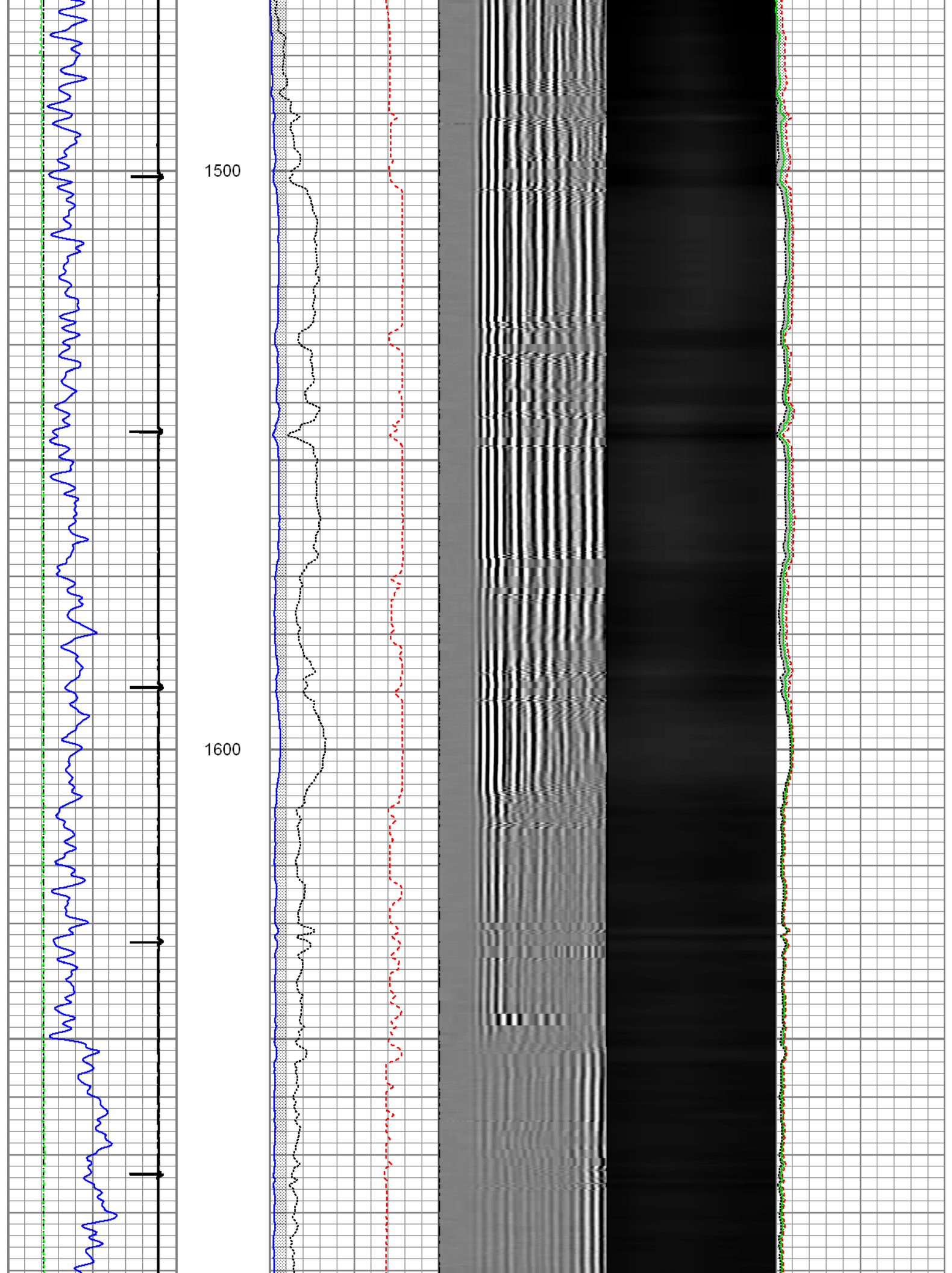


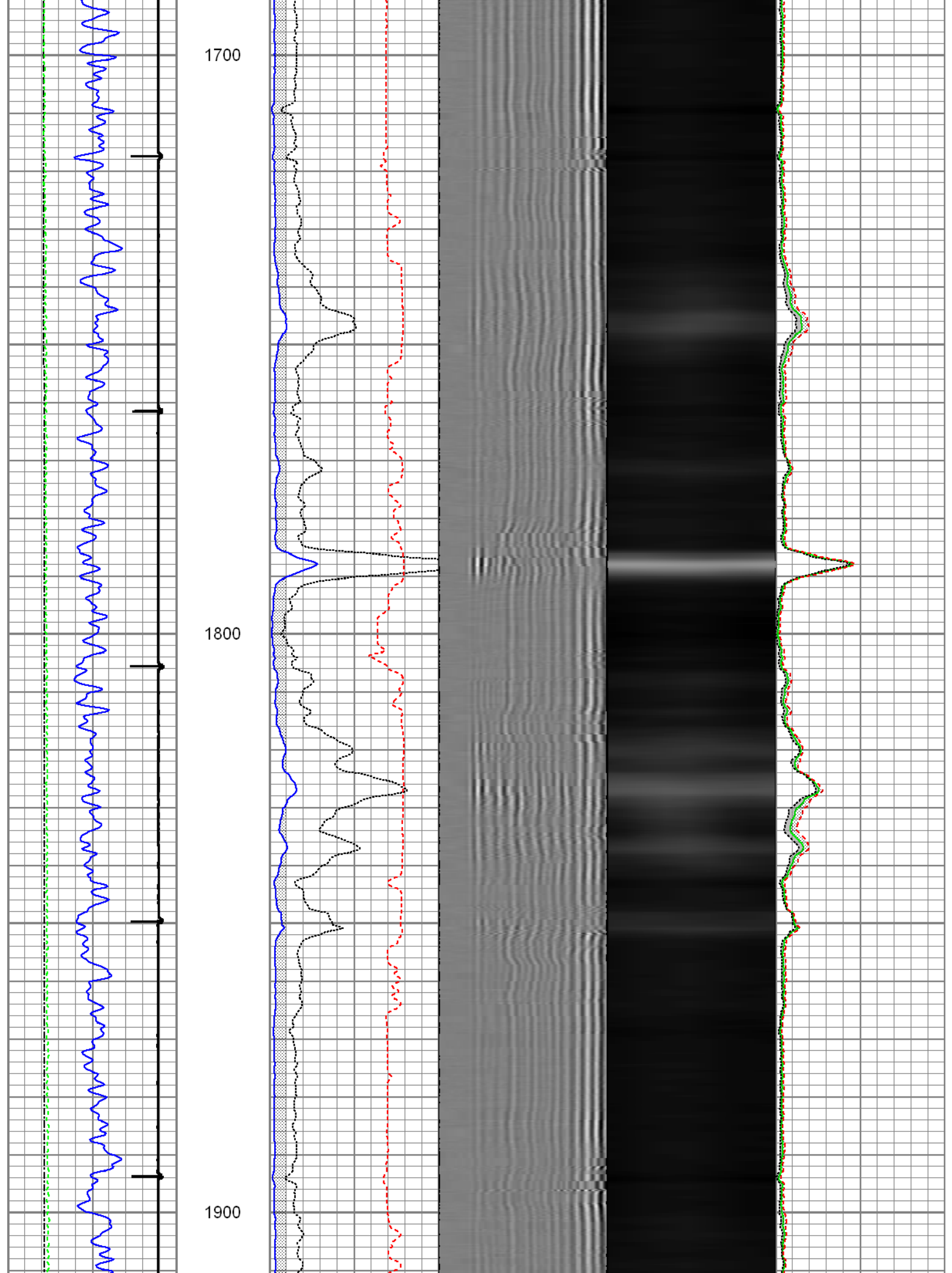


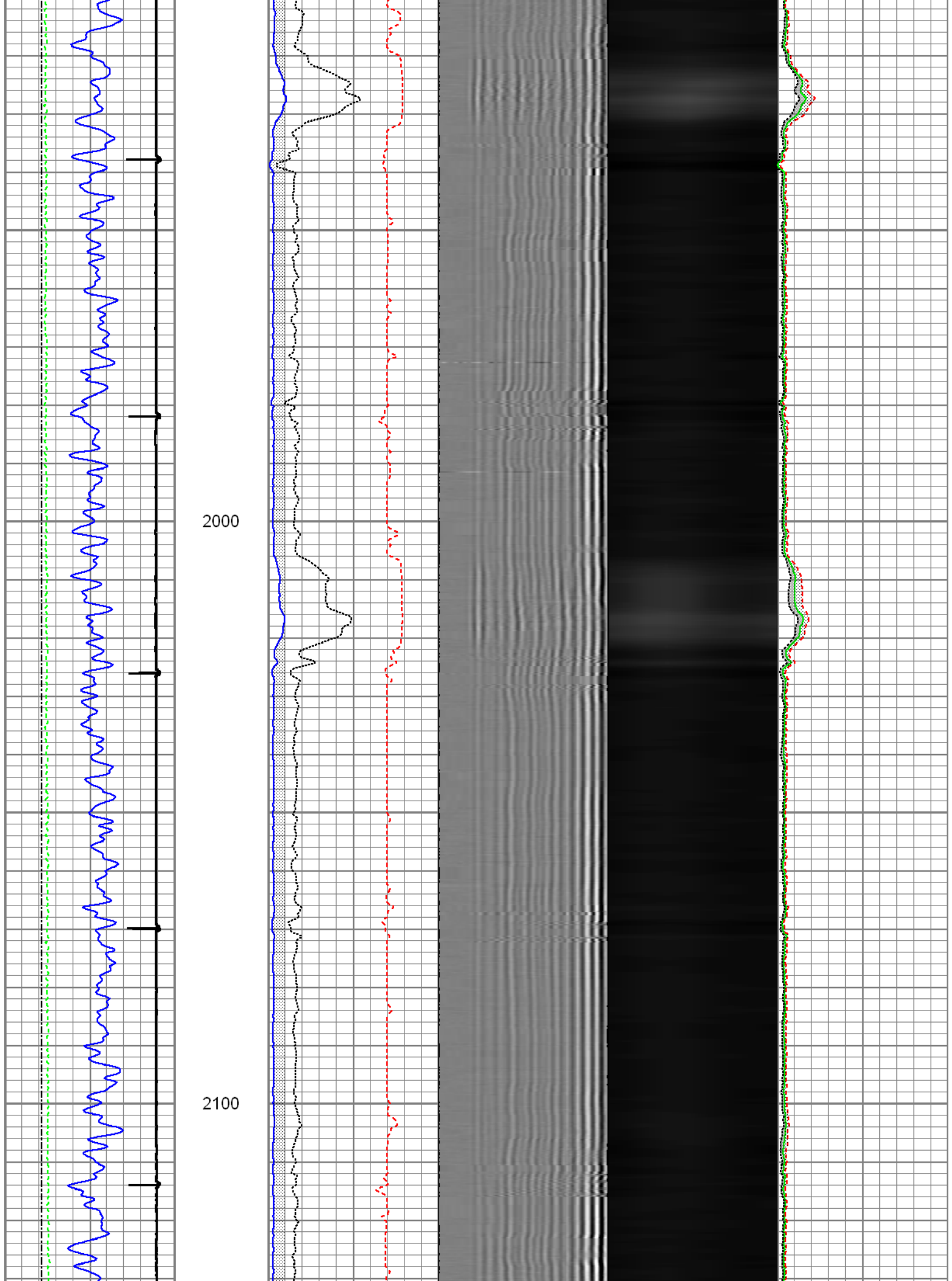


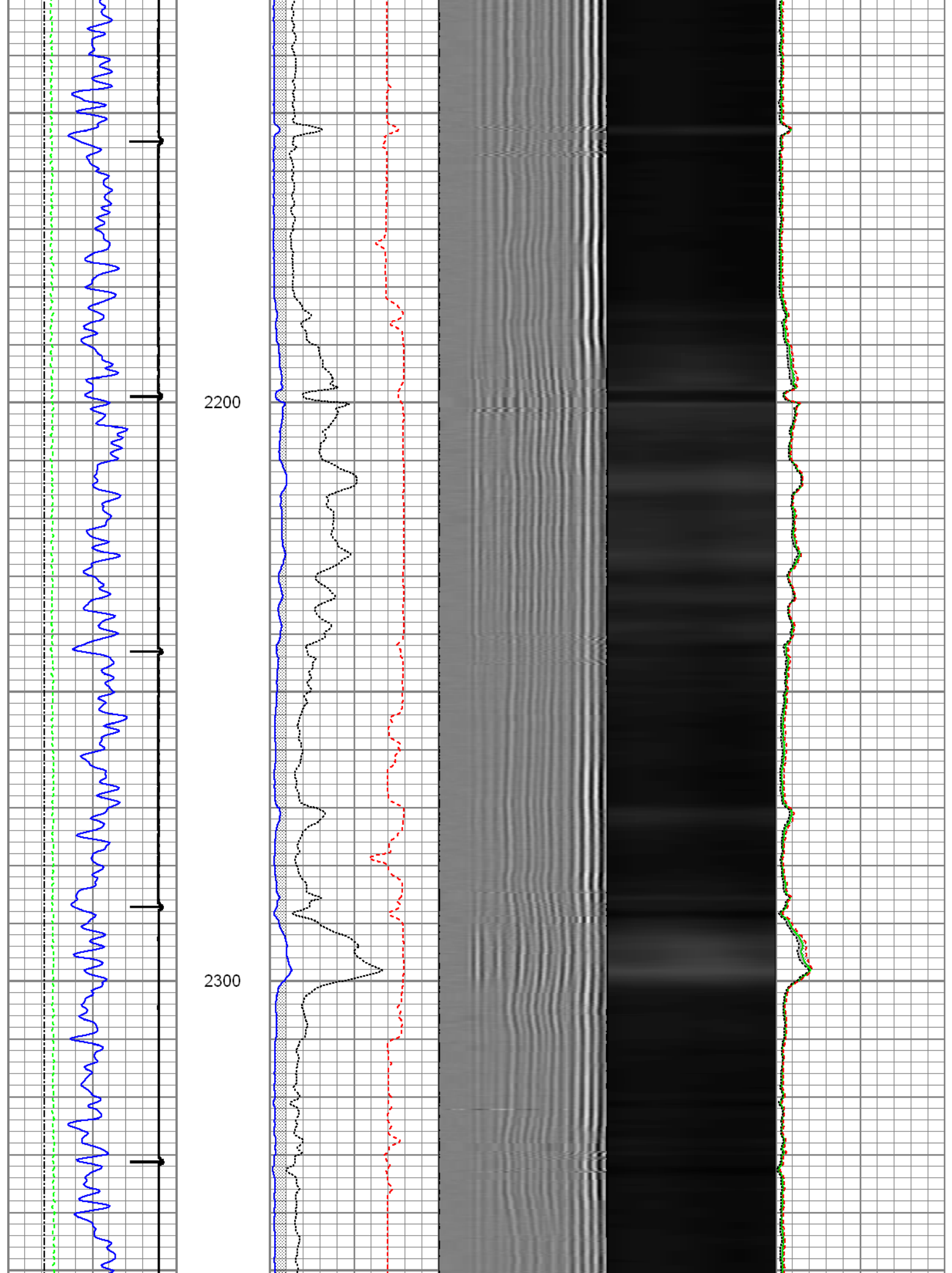


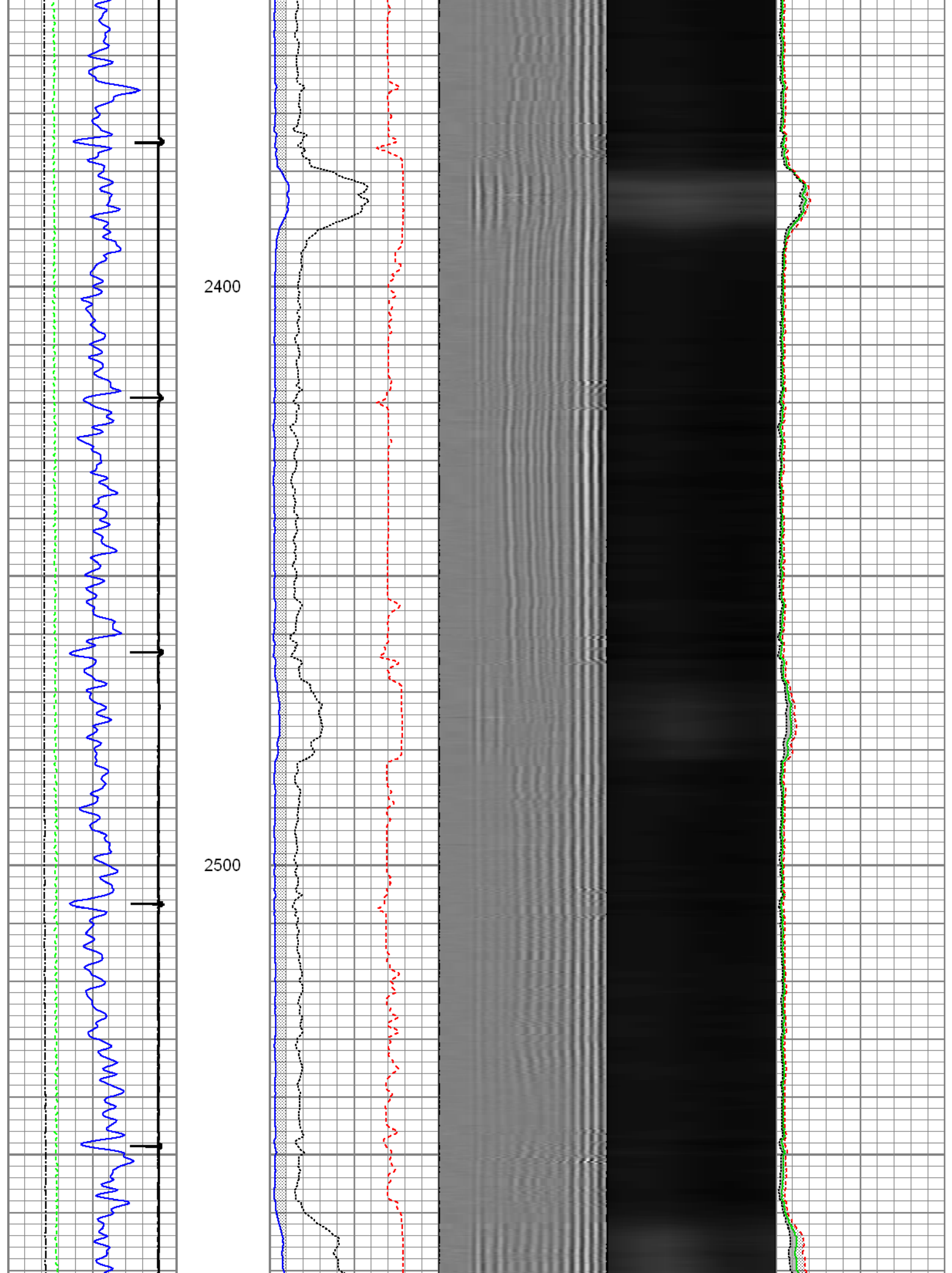






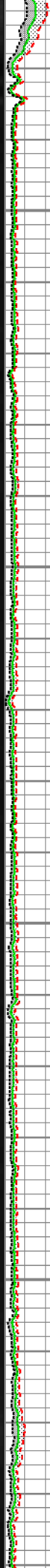
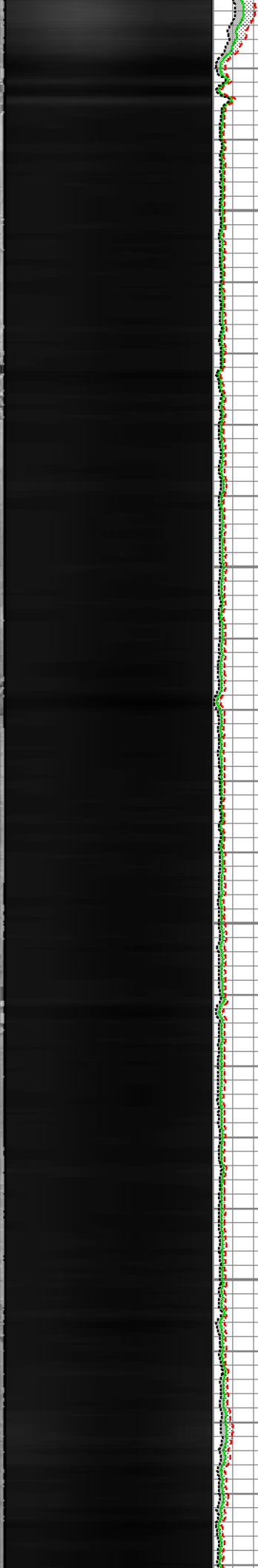
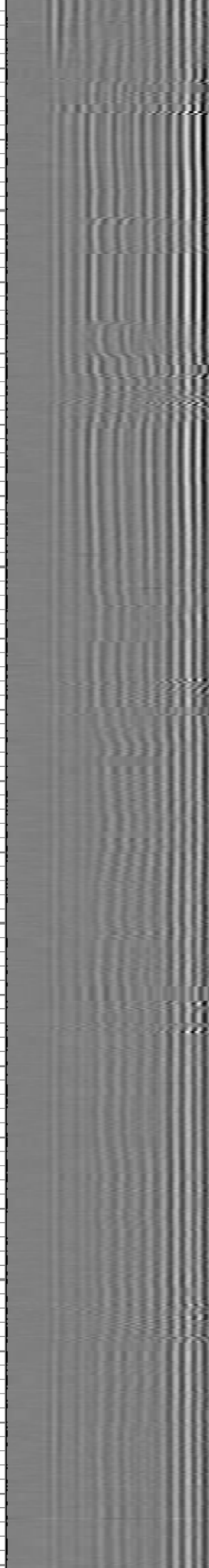
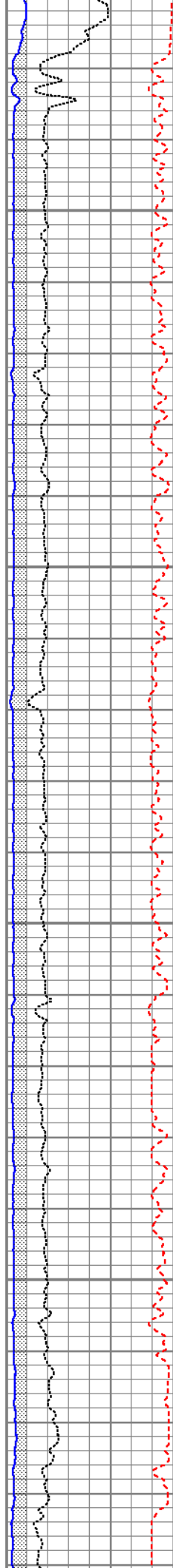
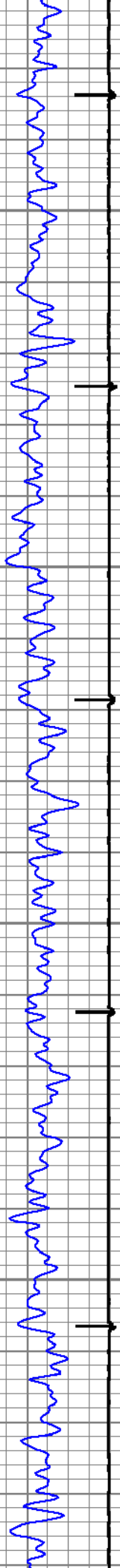


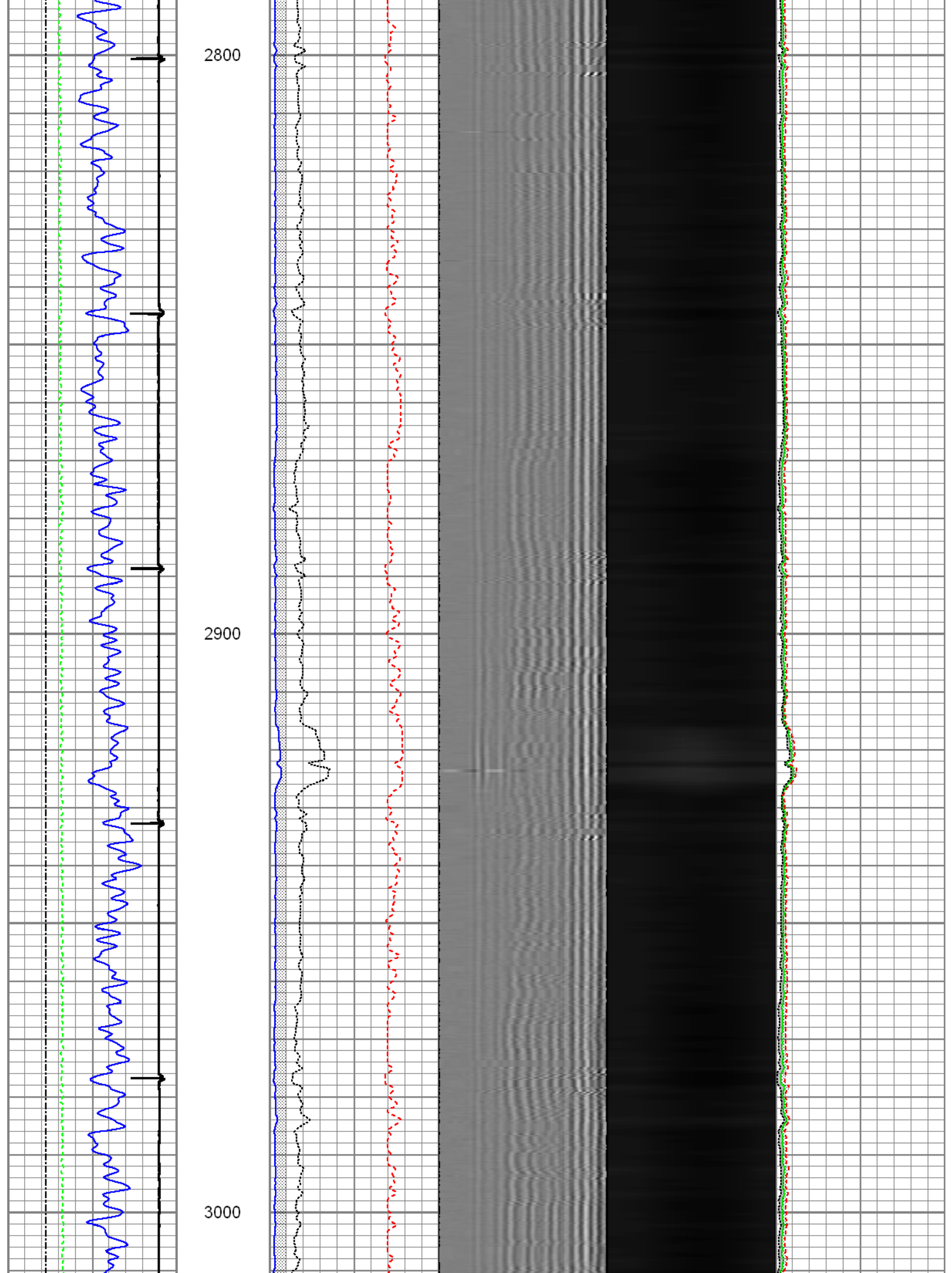


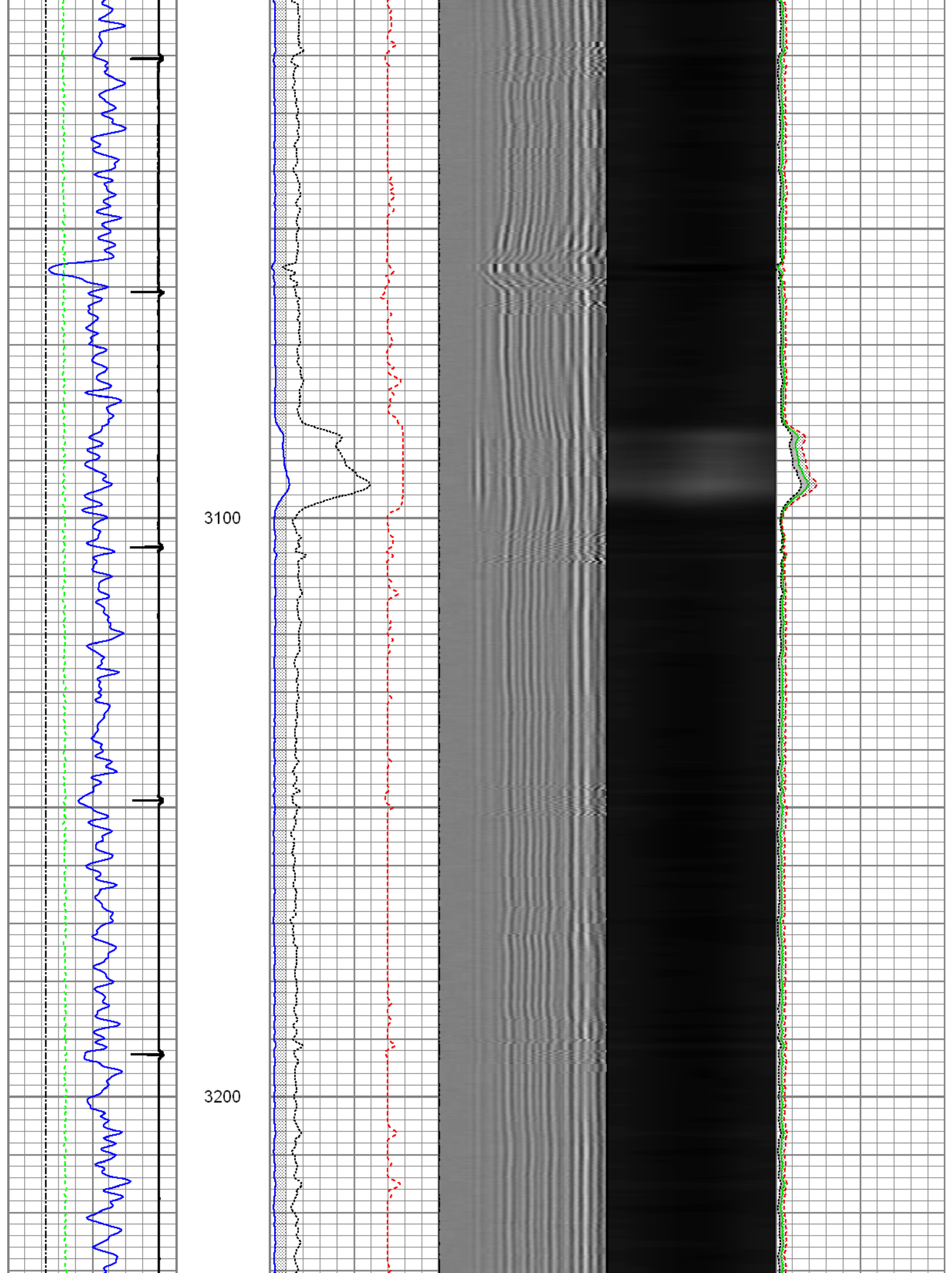


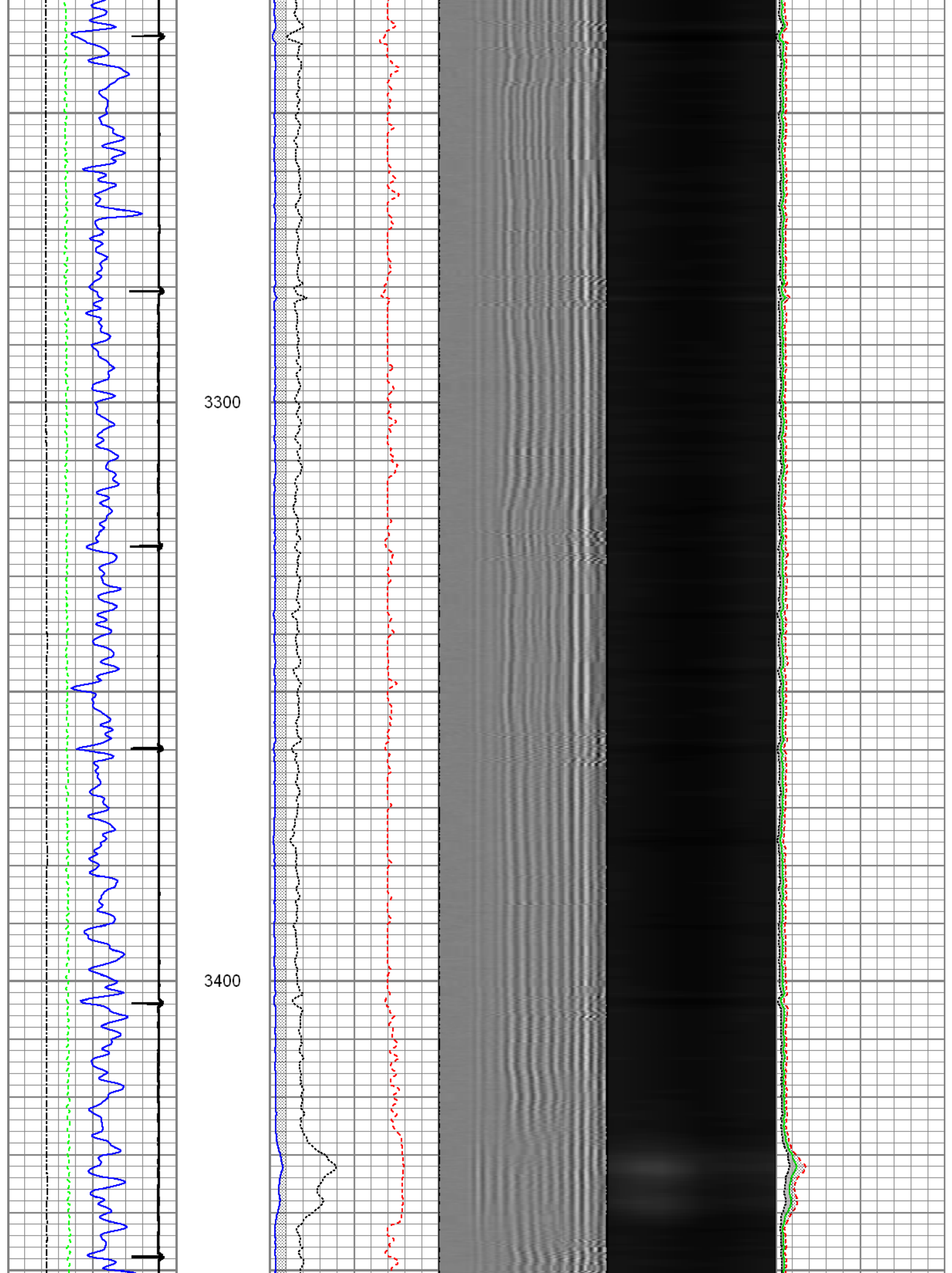
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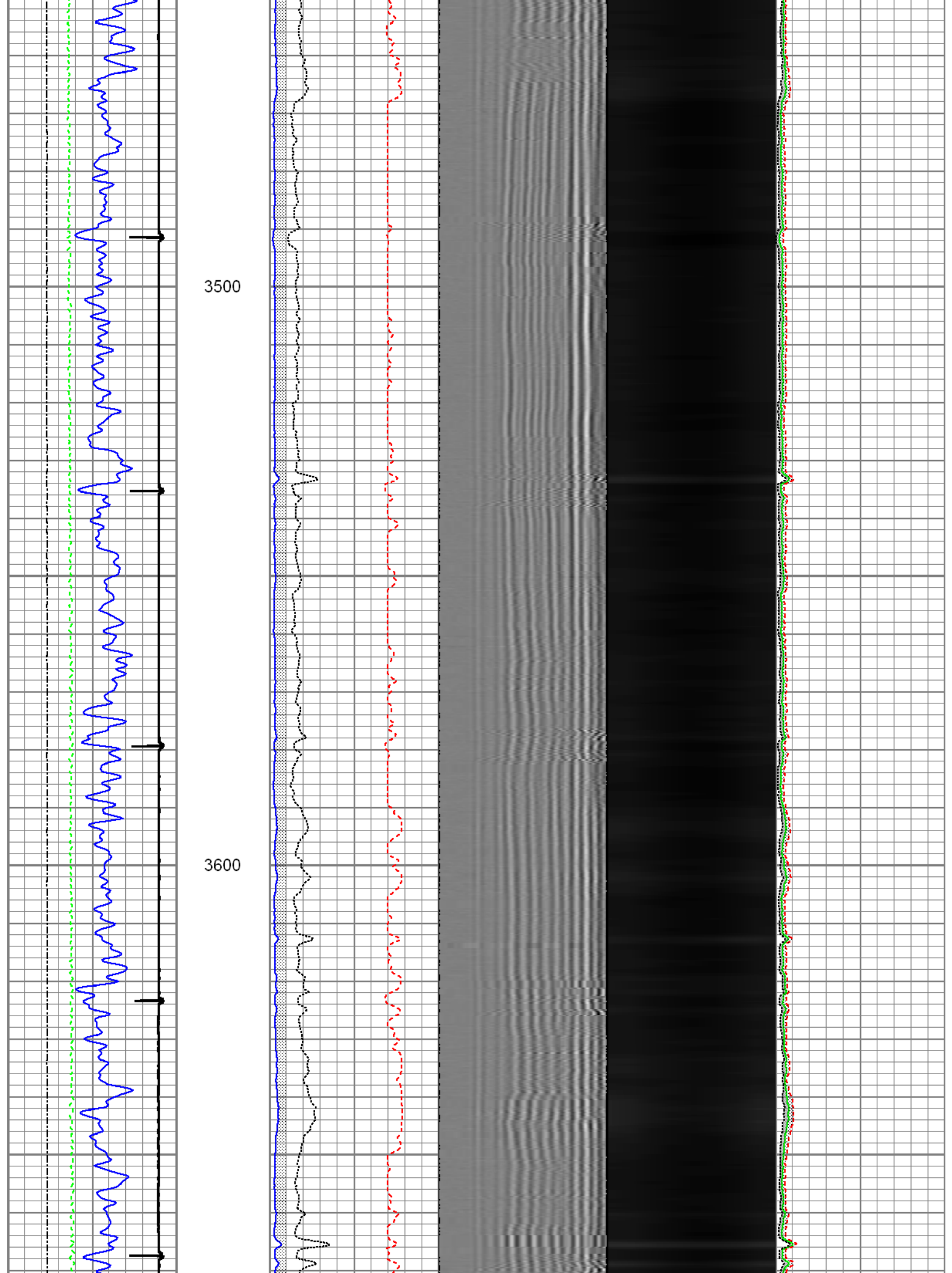
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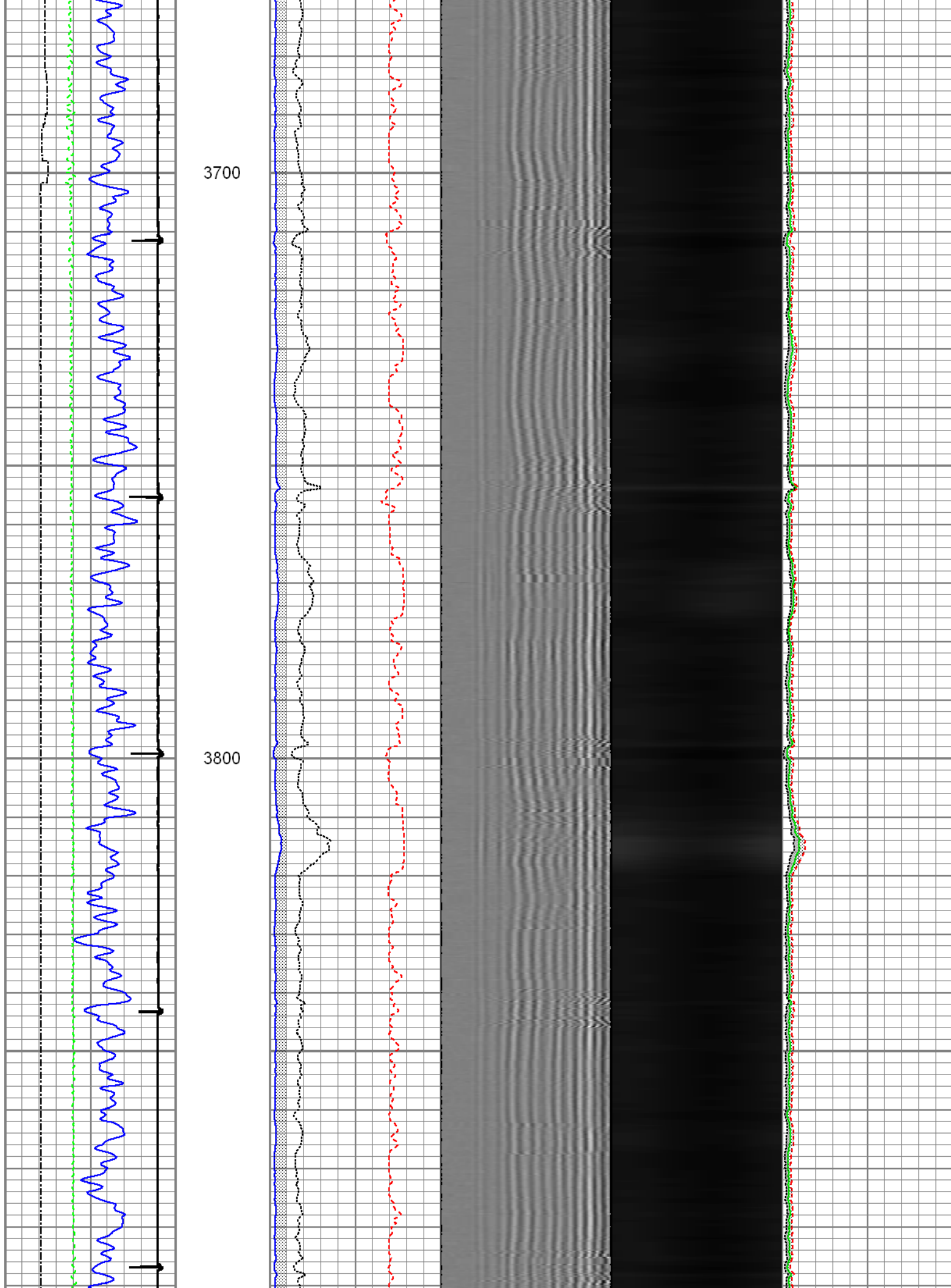






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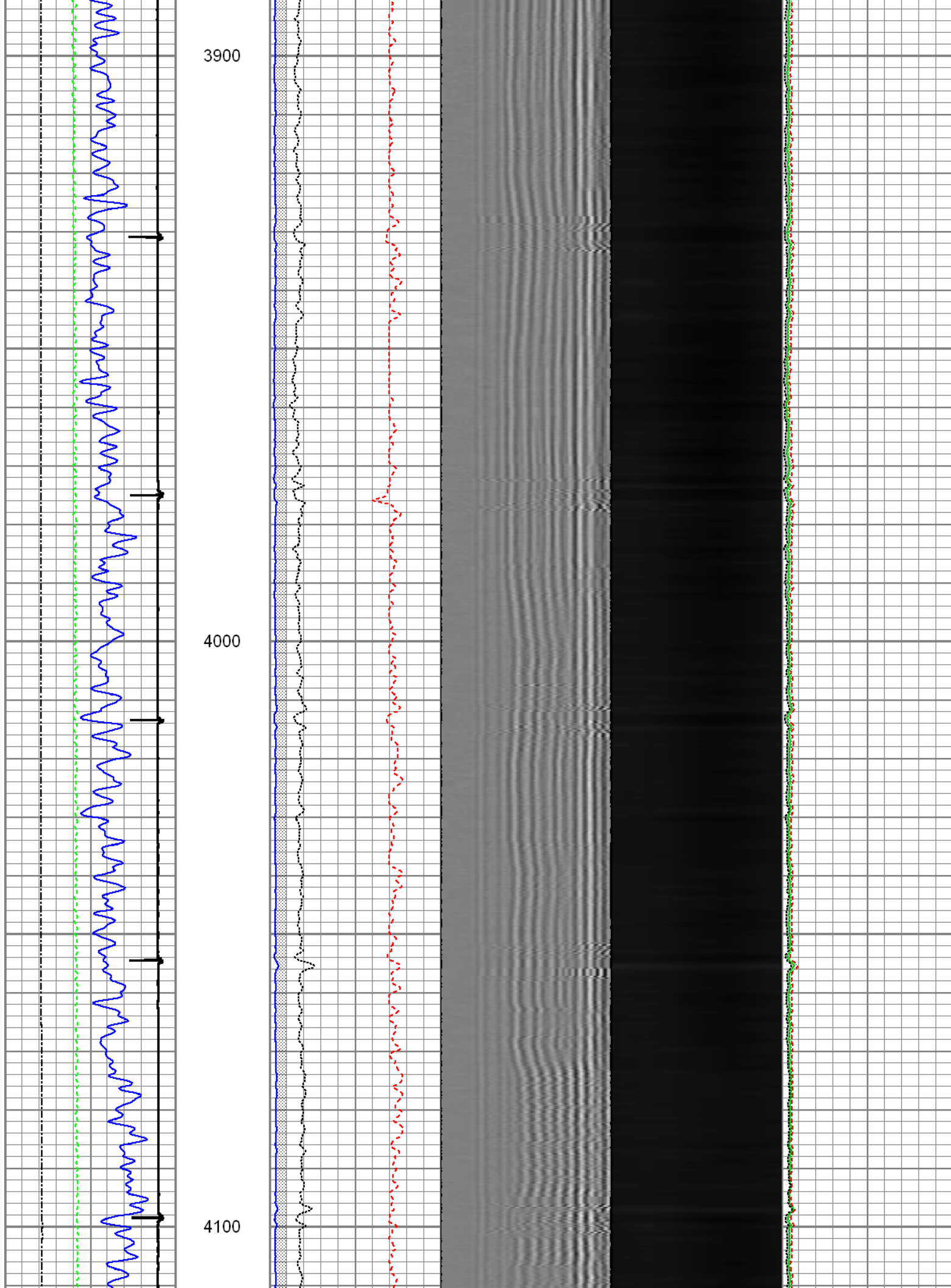
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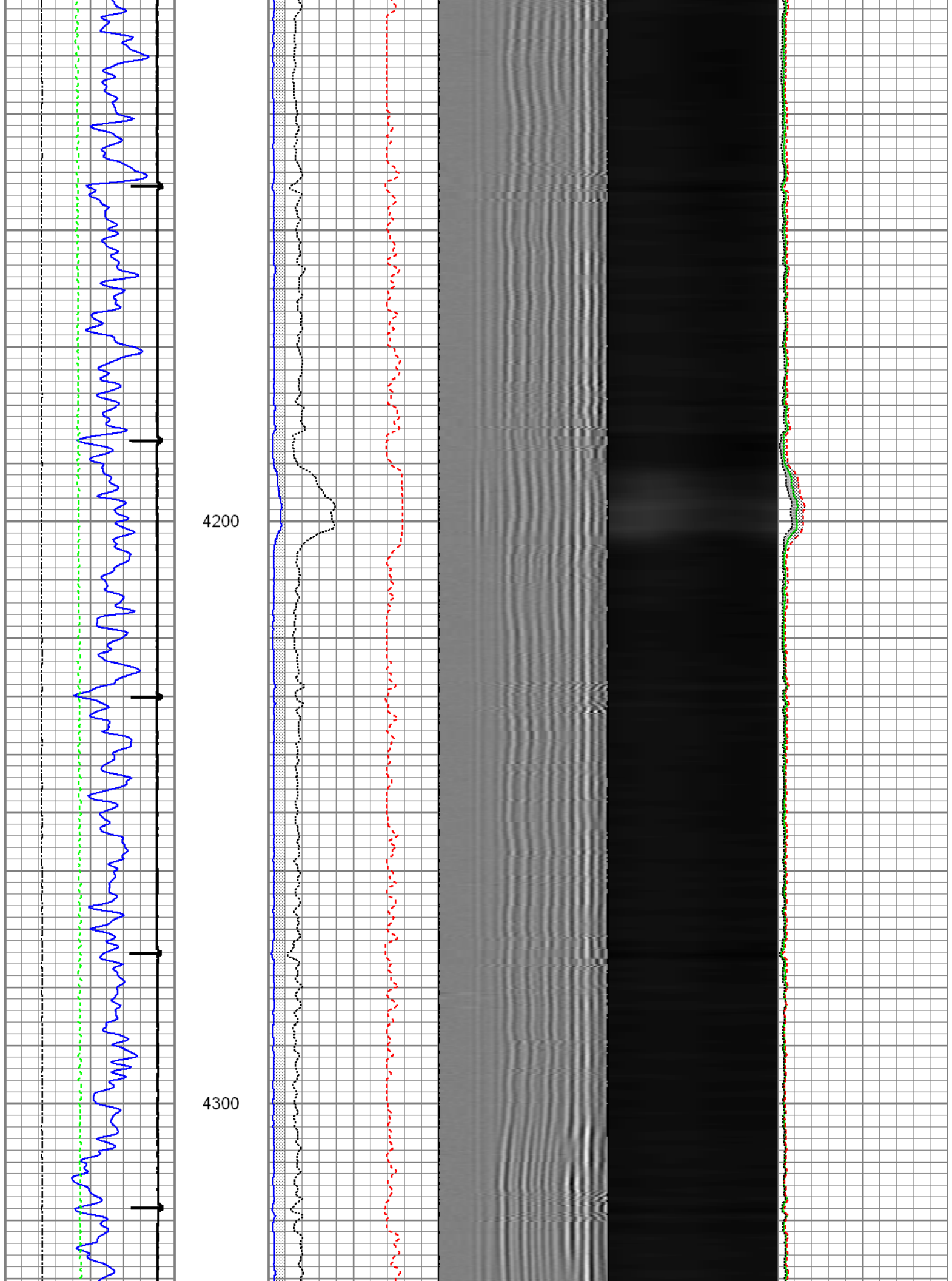


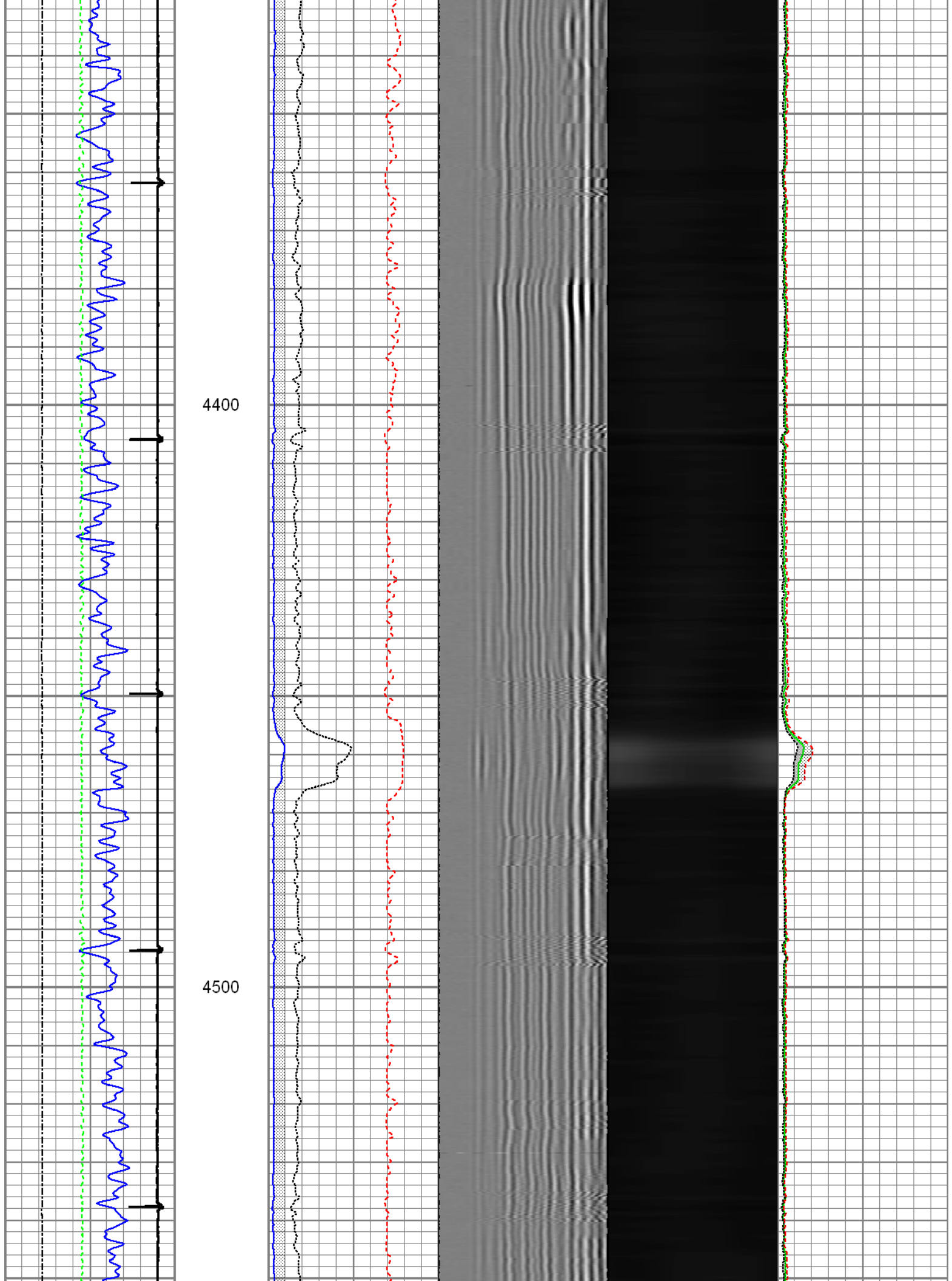
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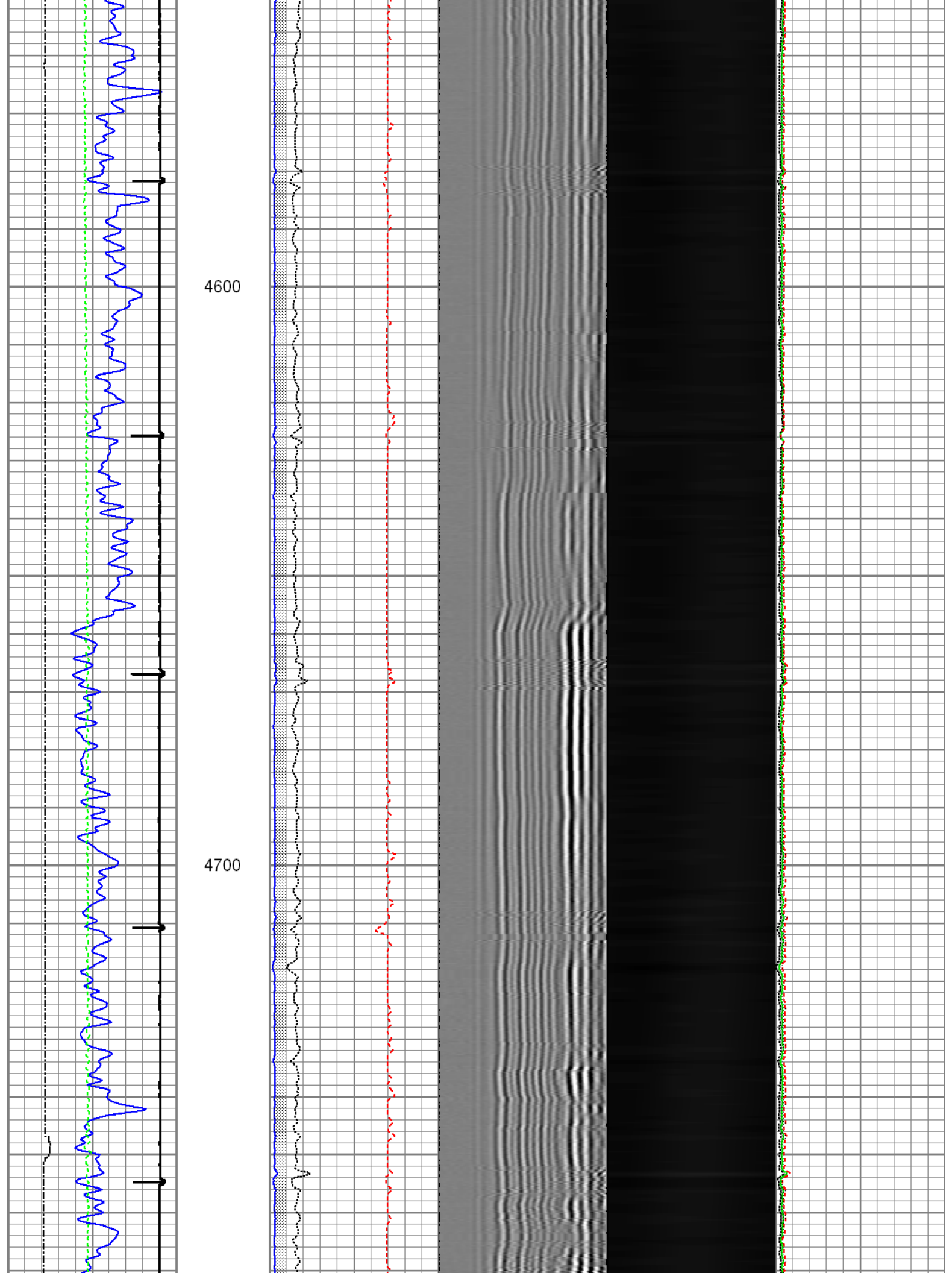
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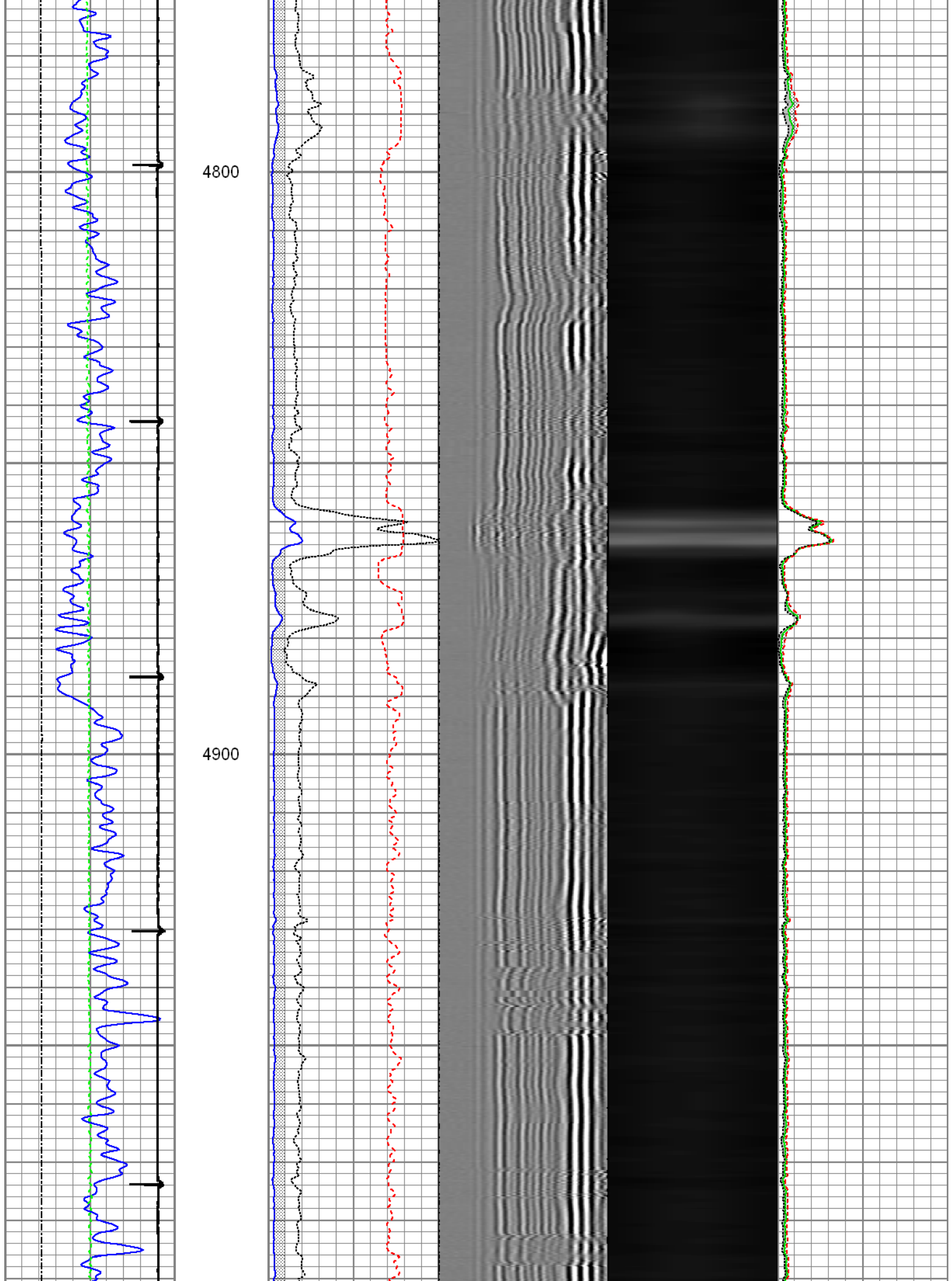
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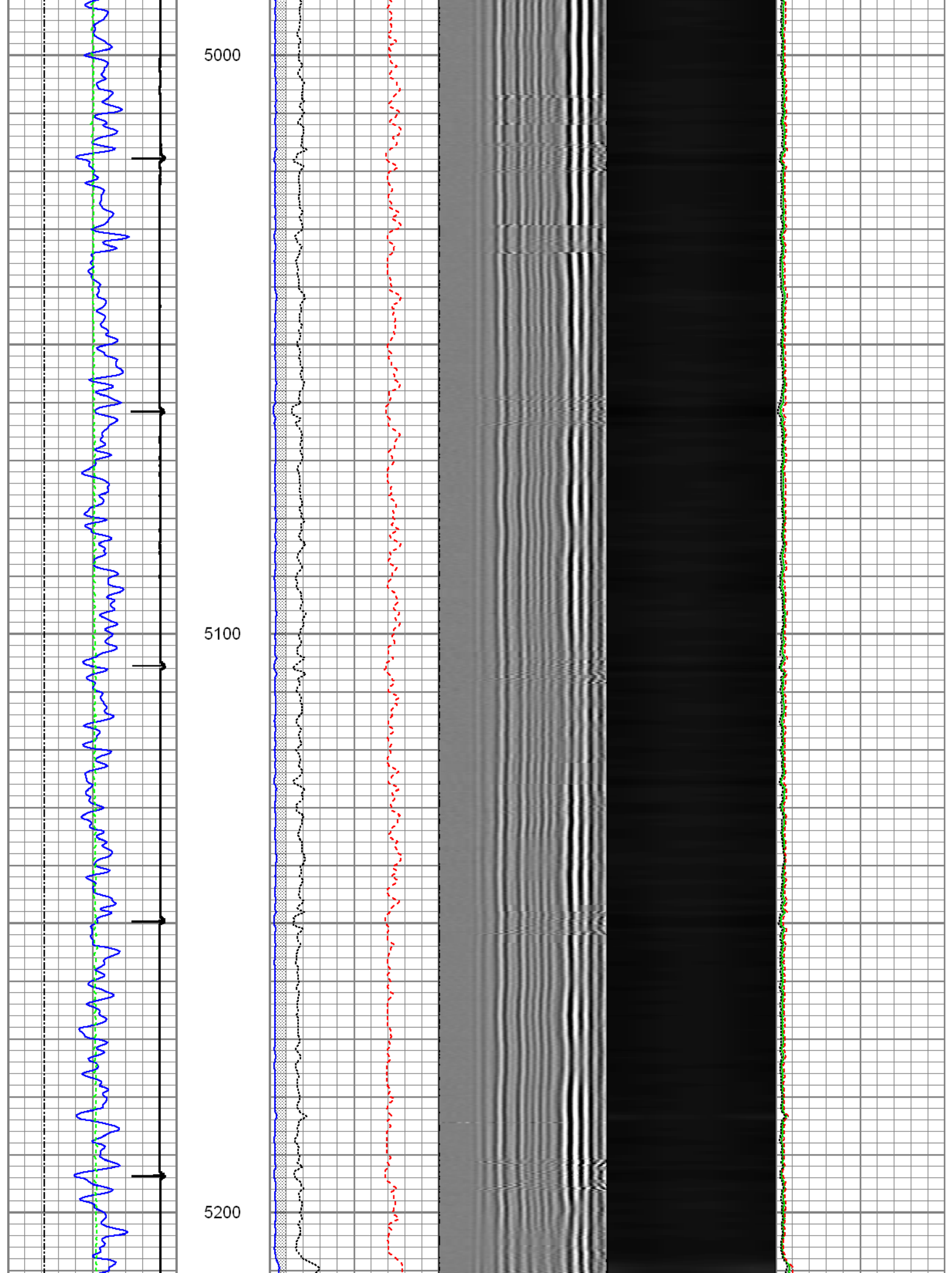


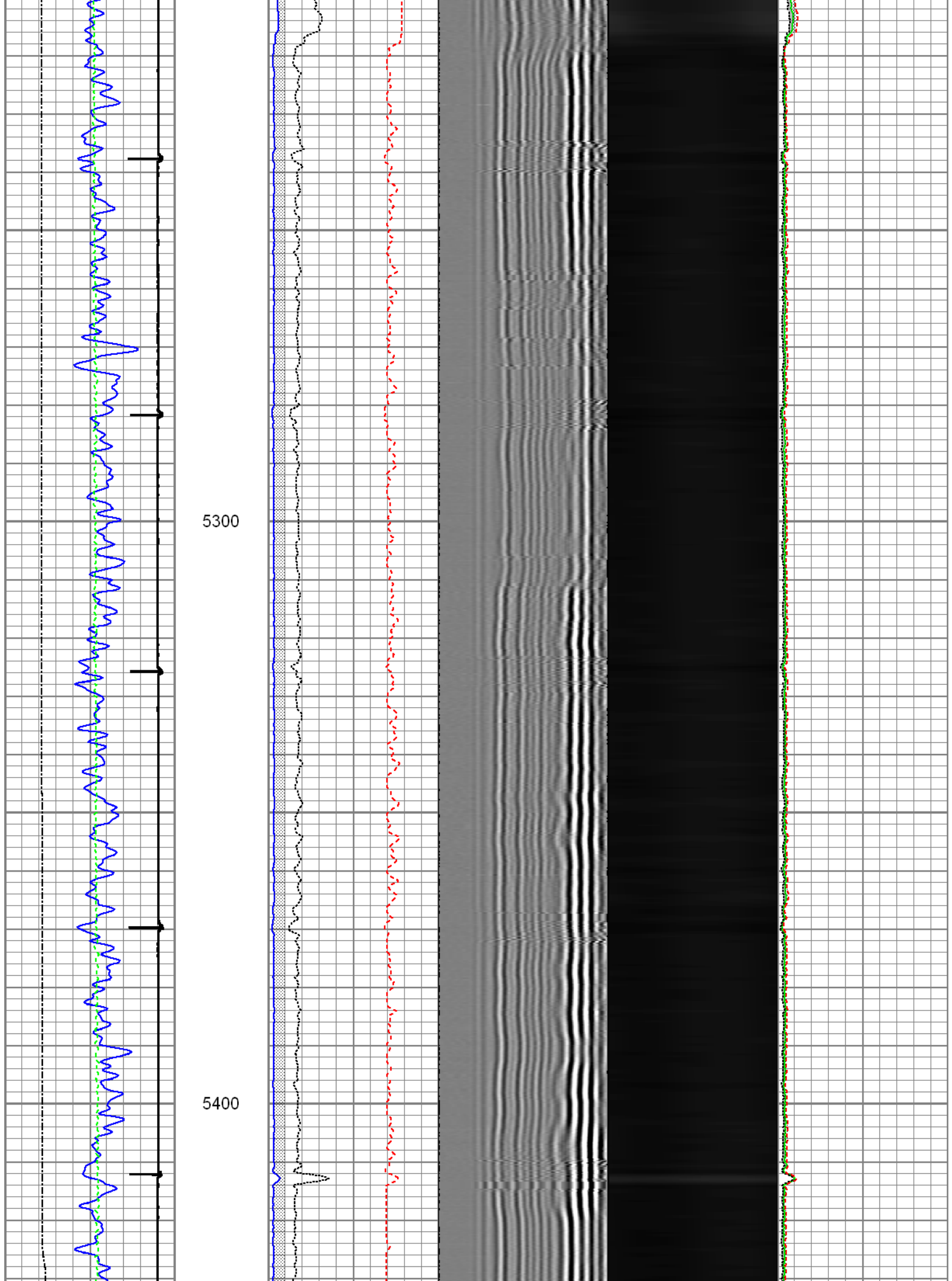


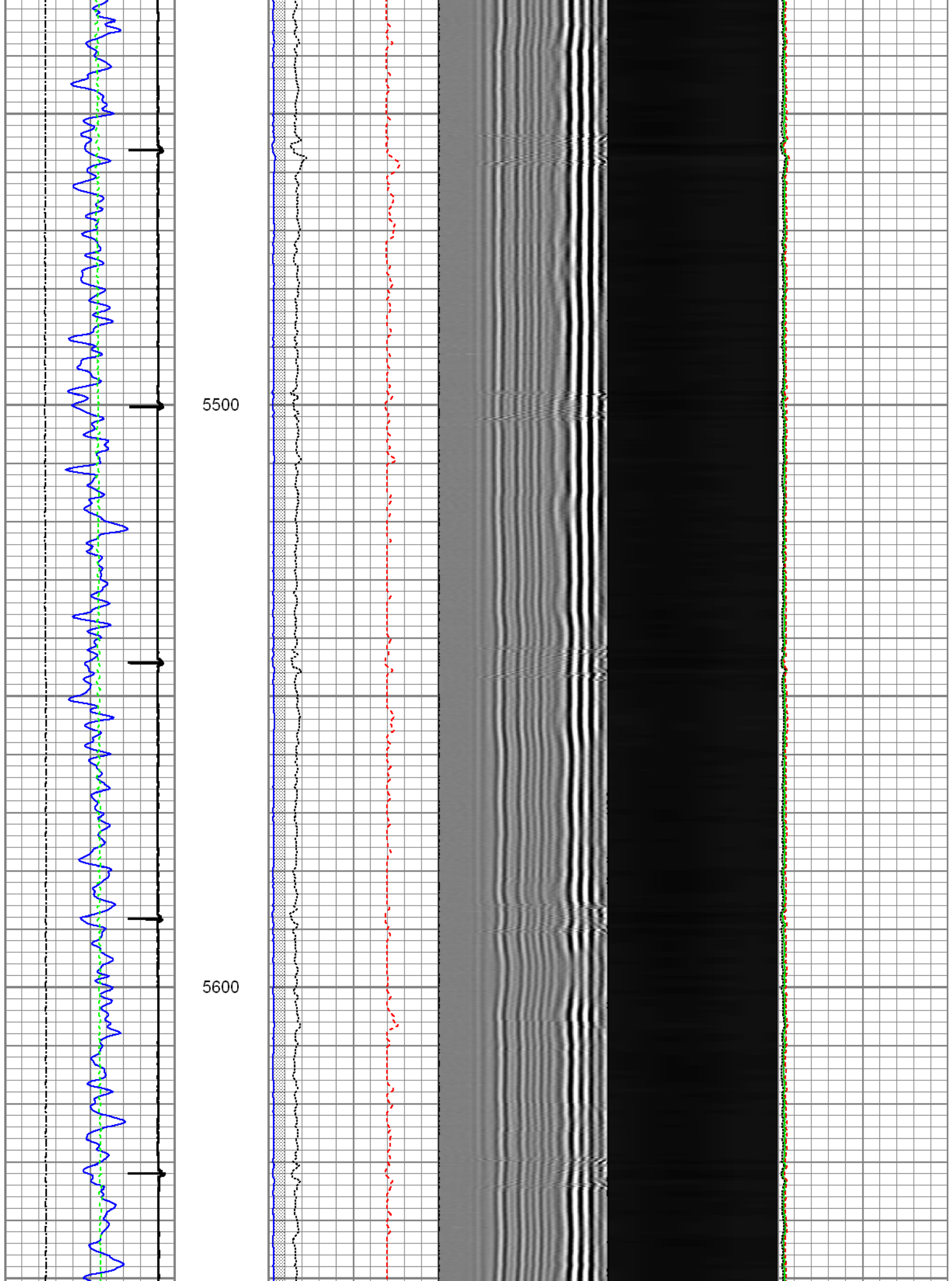


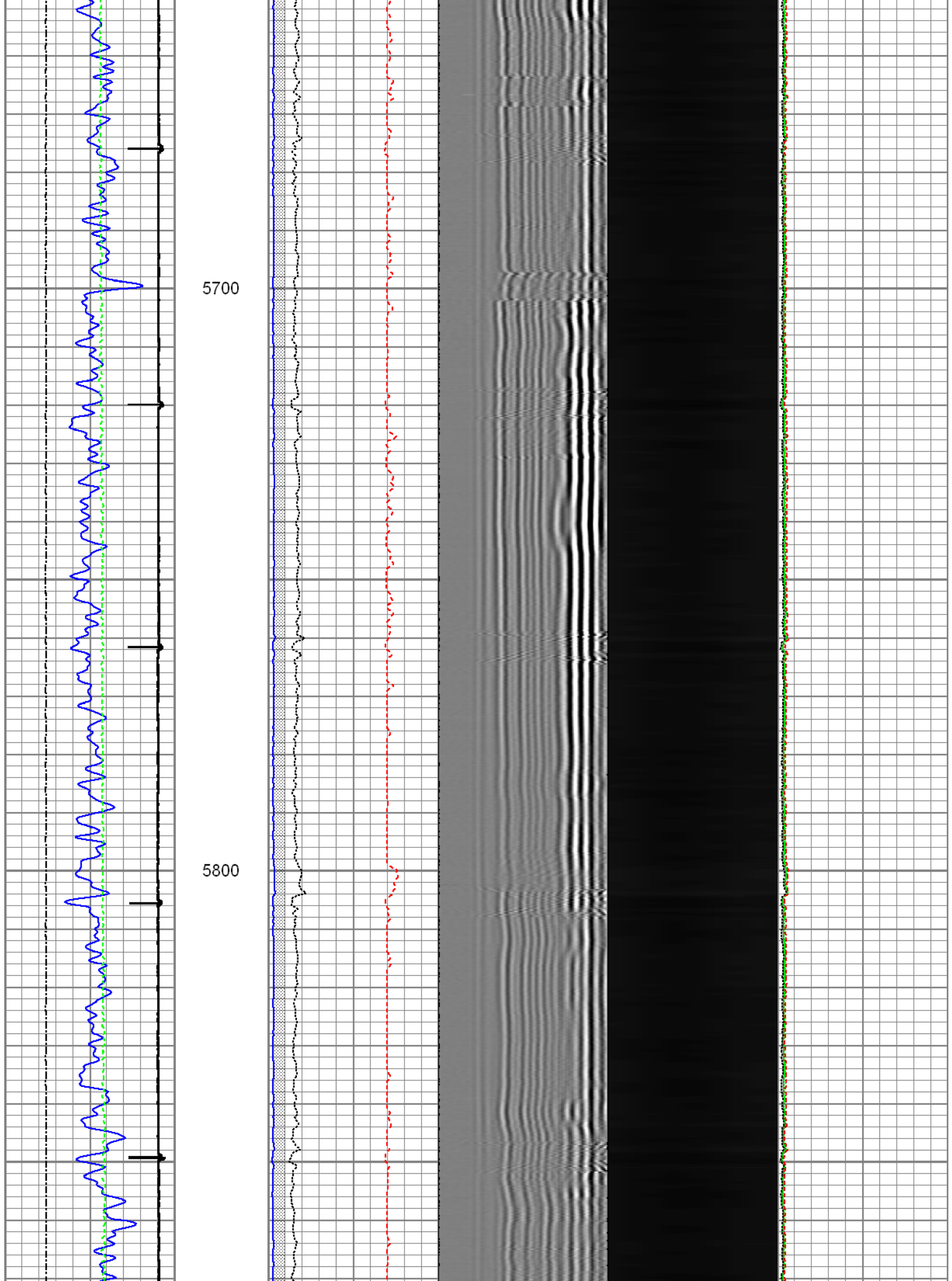


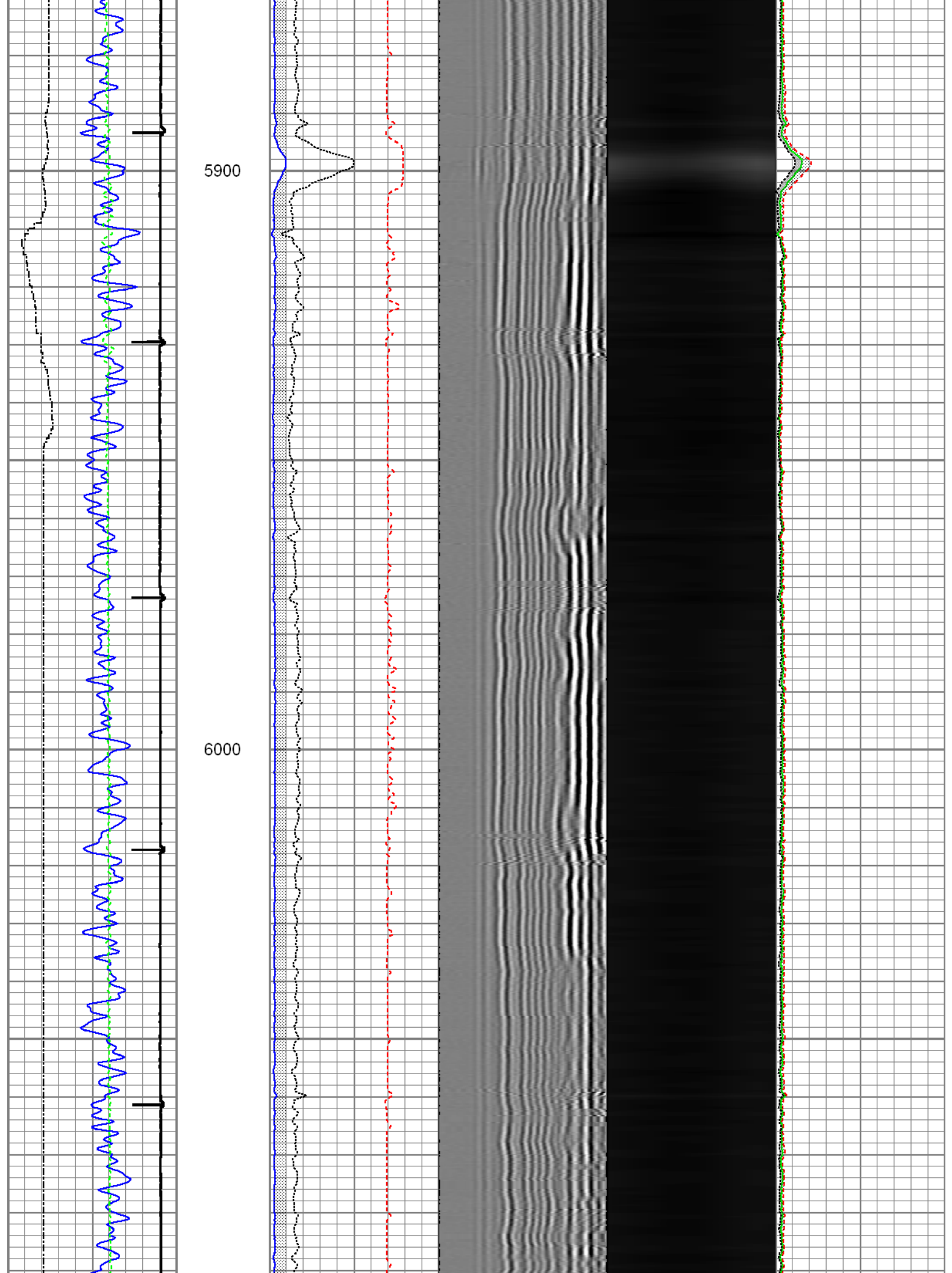


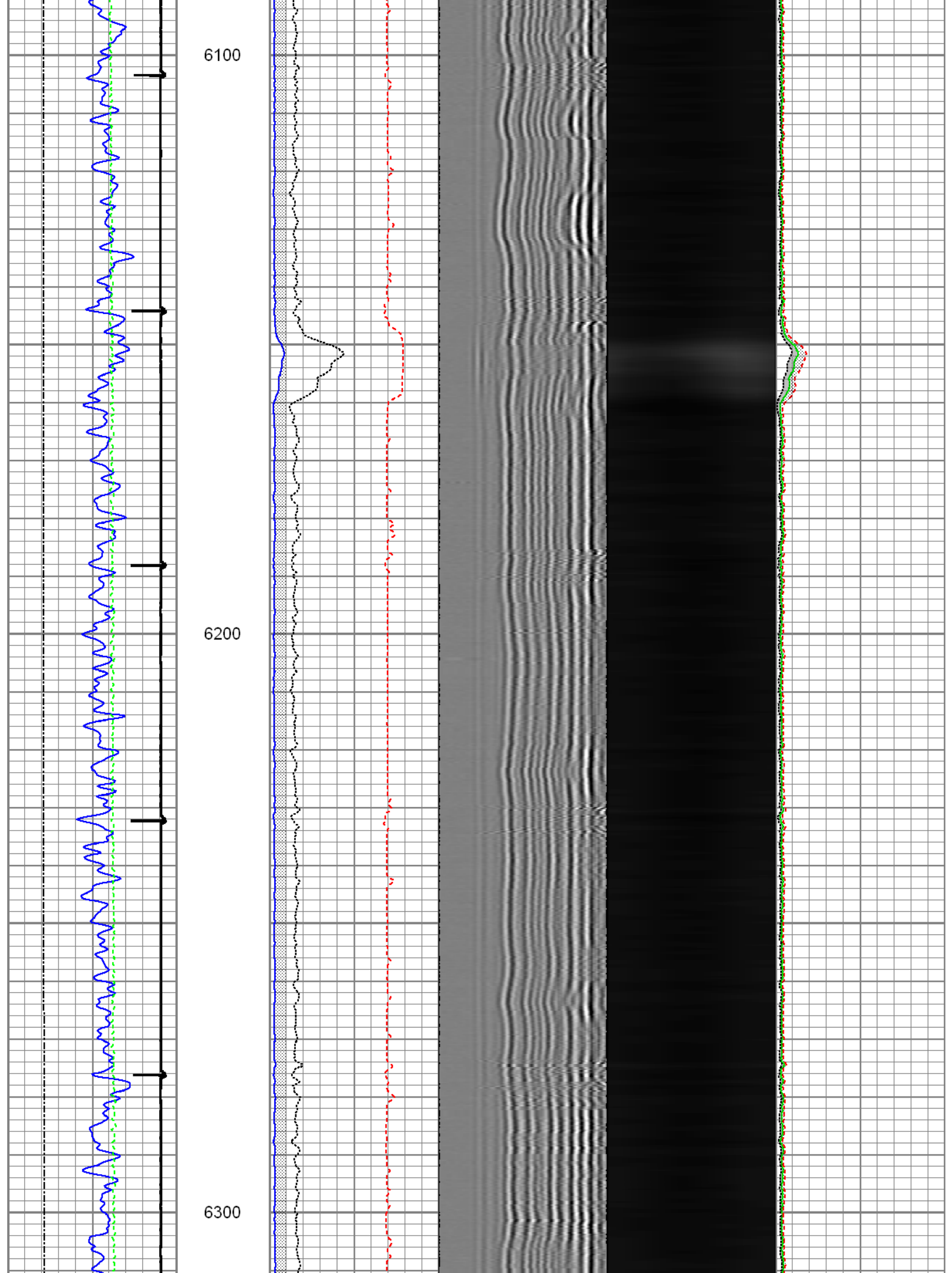


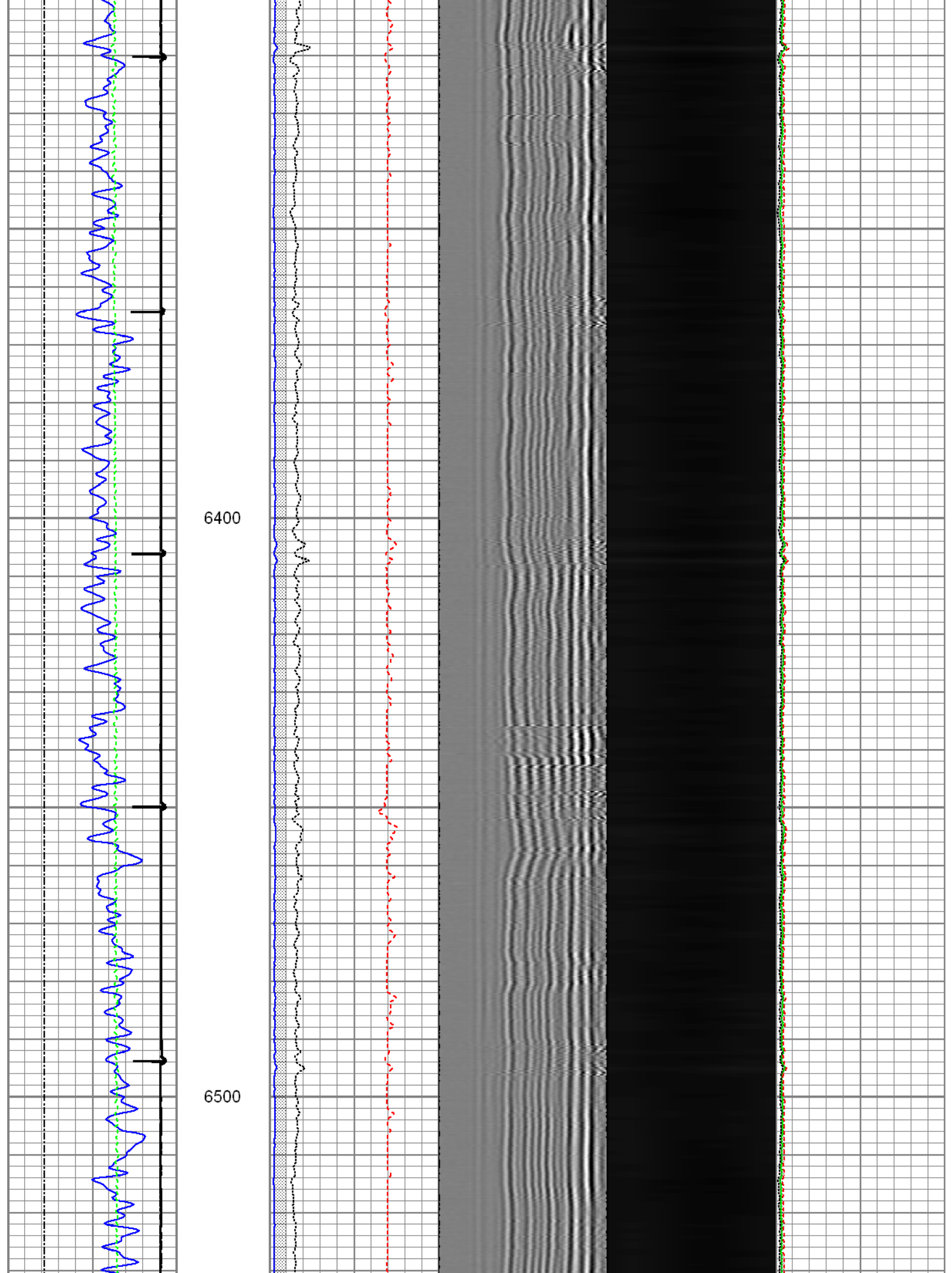


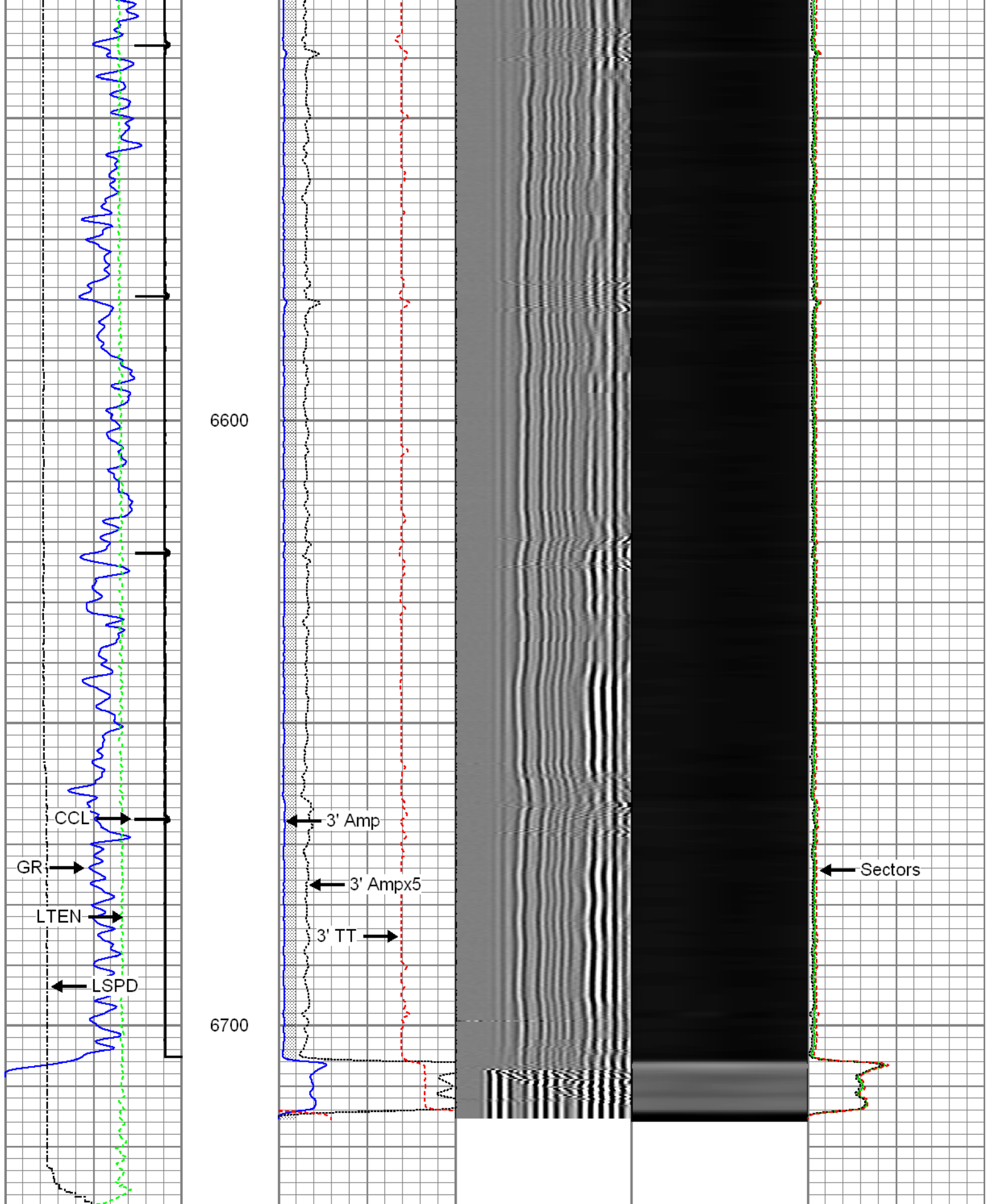












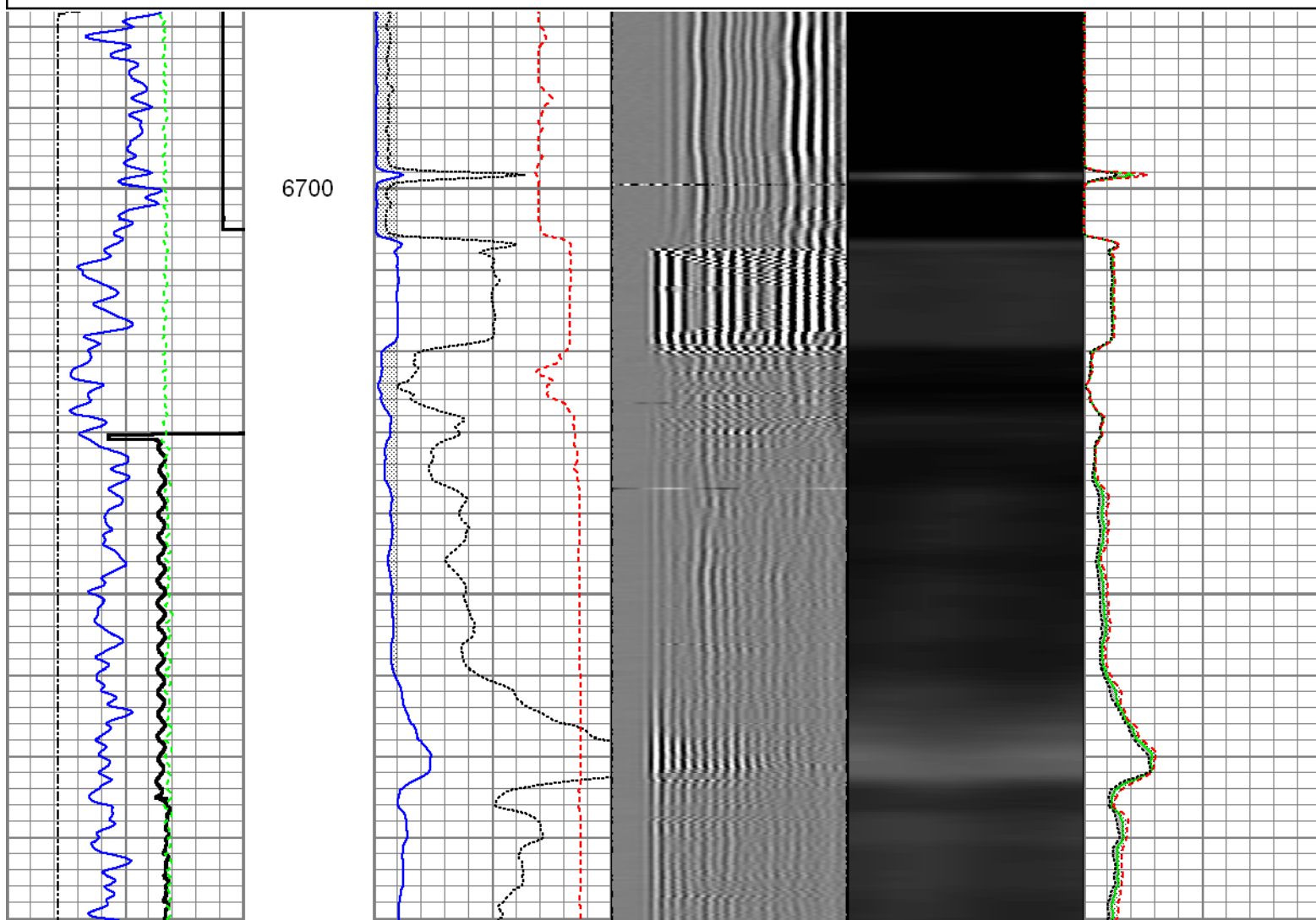
Gamma Ray (GAPI)	3' Amplitude (mV)	5' Variable Density Log	Sector Map	Average Amplitude
0 120	0 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5 (mV)			Minimum Amplitude
Line Speed	0 20			0 100

-100 (ft/min) 100	3' Travel Time	Maximum Amplitude
Line Tension	650 (usec) 150	0 100
0 (lb) 2000		

FMC Technologies	4.5 Main Pass
	Logged With 2800 PSI Surface Induced

Database File: 0512339181_anadarko_burkhardt 15n-3hz_10-10-14_mit_rbl.db
 Dataset Pathname: 4.5main4.
 Presentation Format: rbt4_mit
 Dataset Creation: Fri Oct 10 13:15:27 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

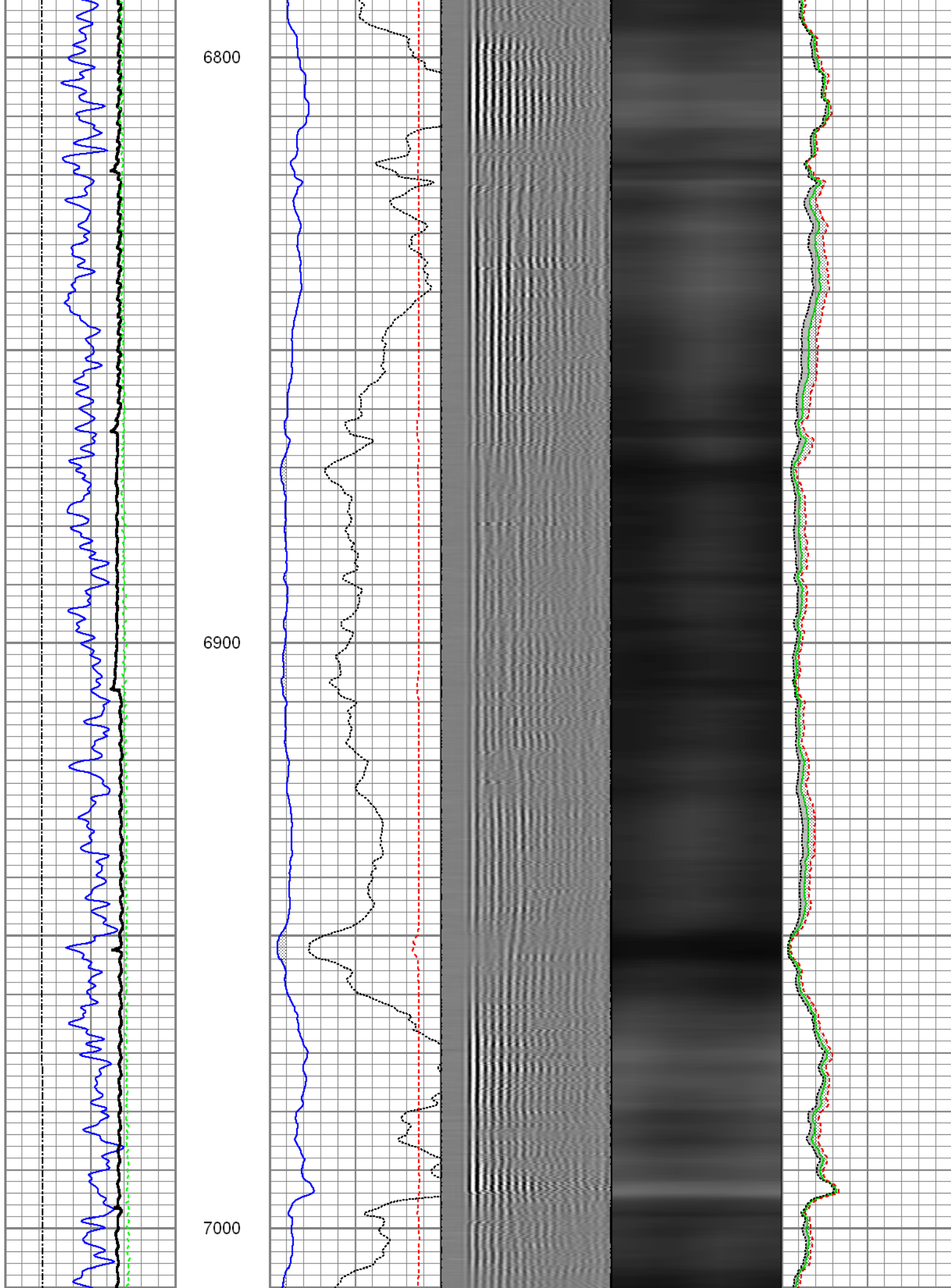
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				

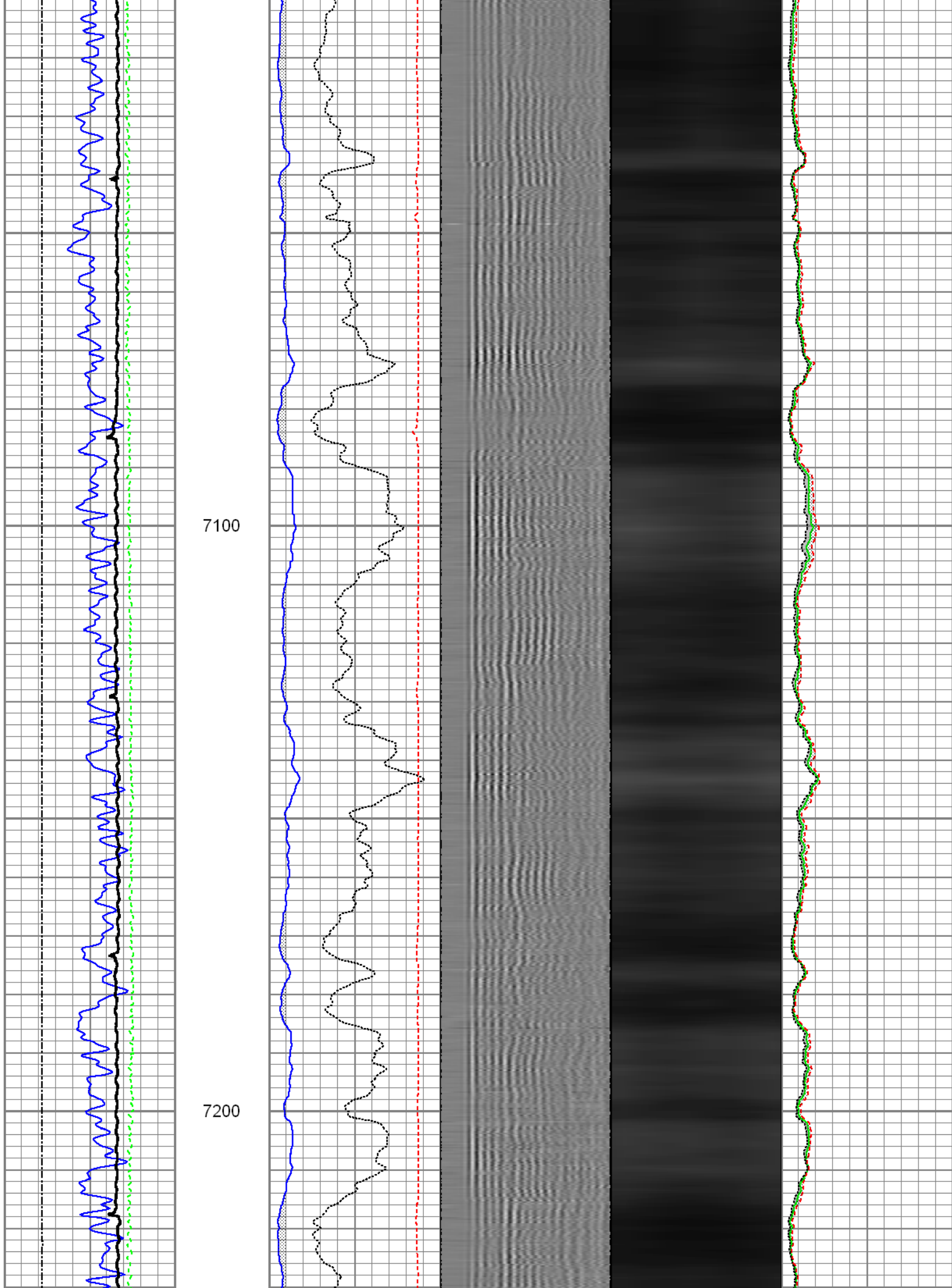


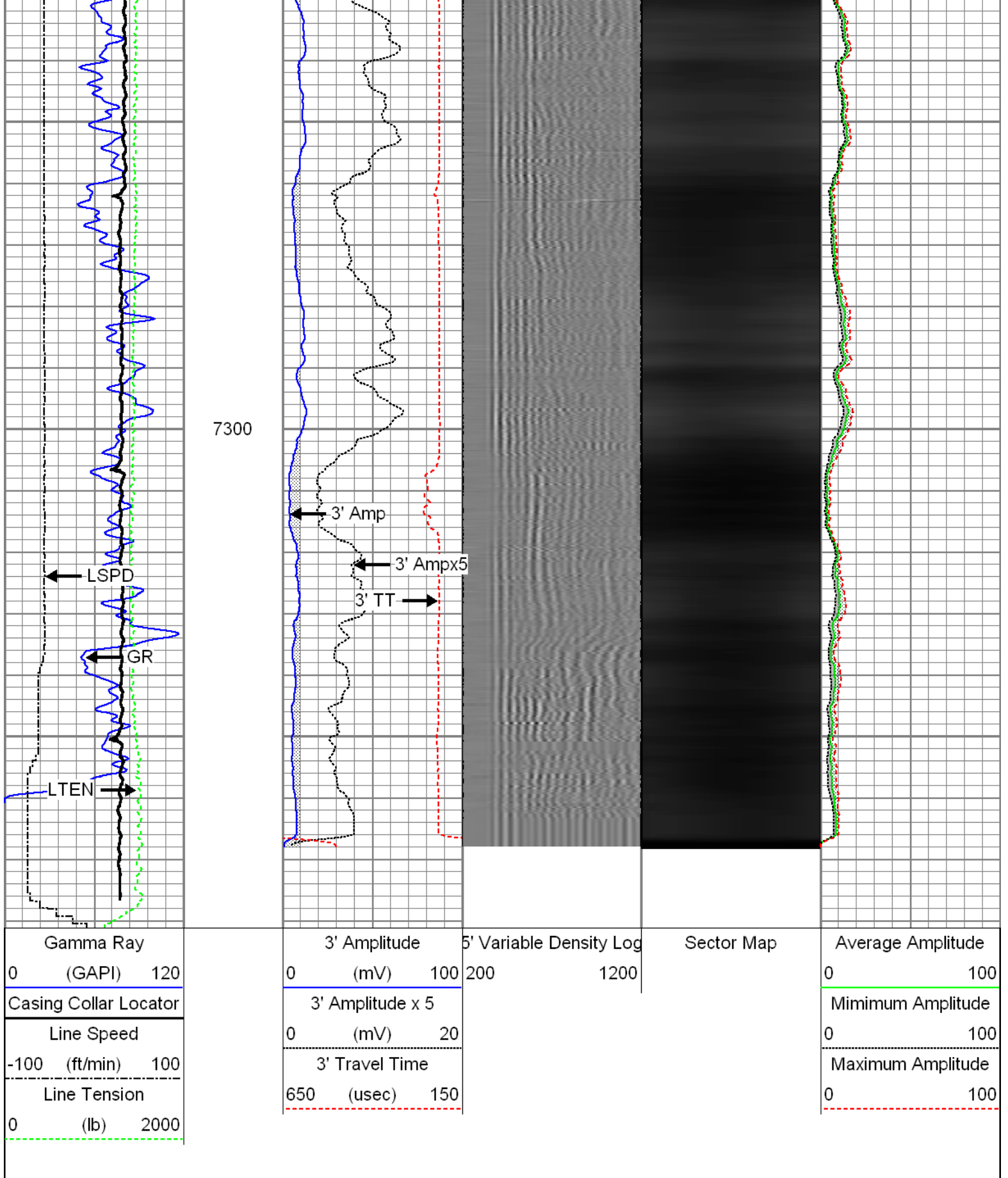
6800

6900

7000



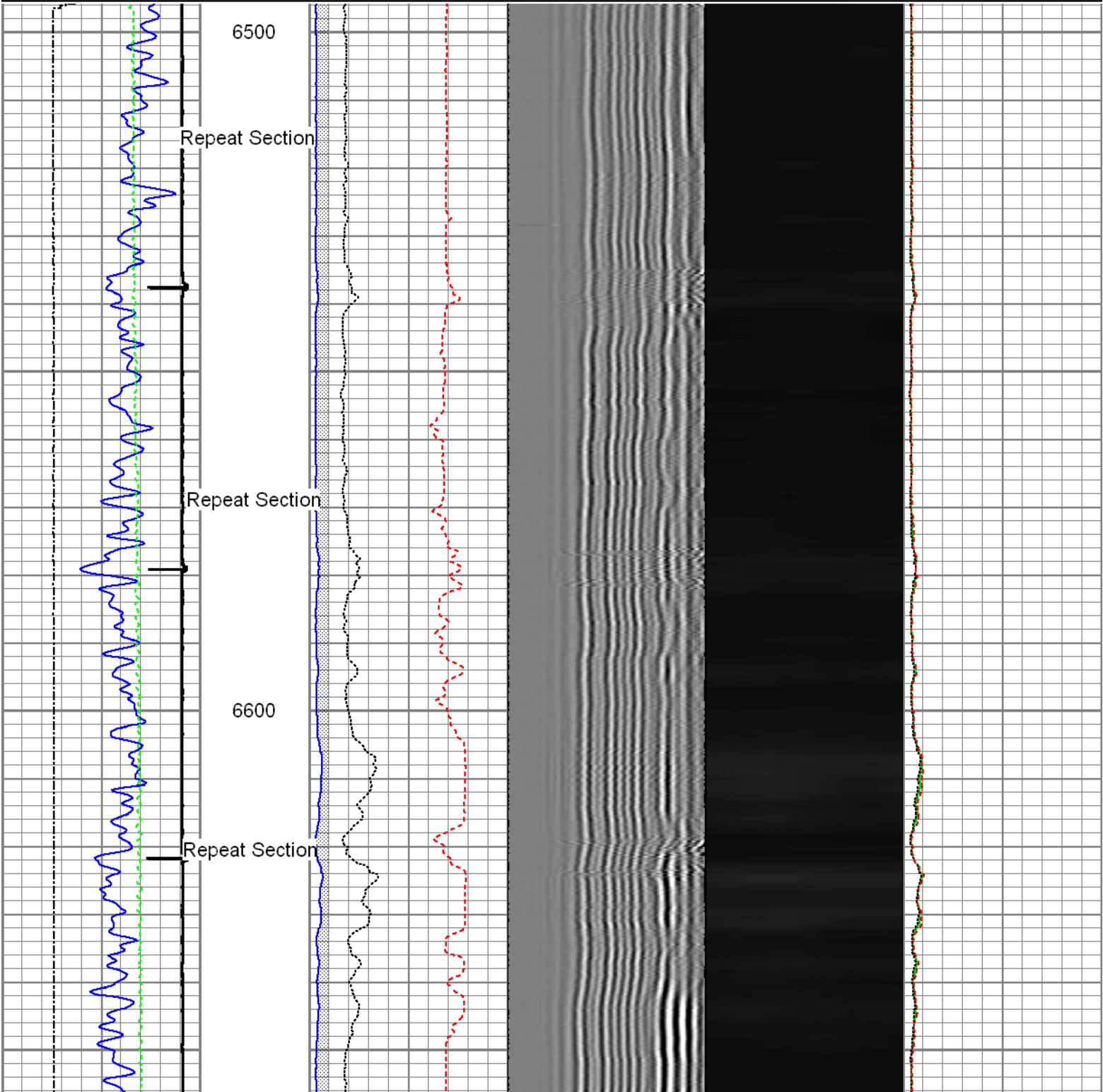


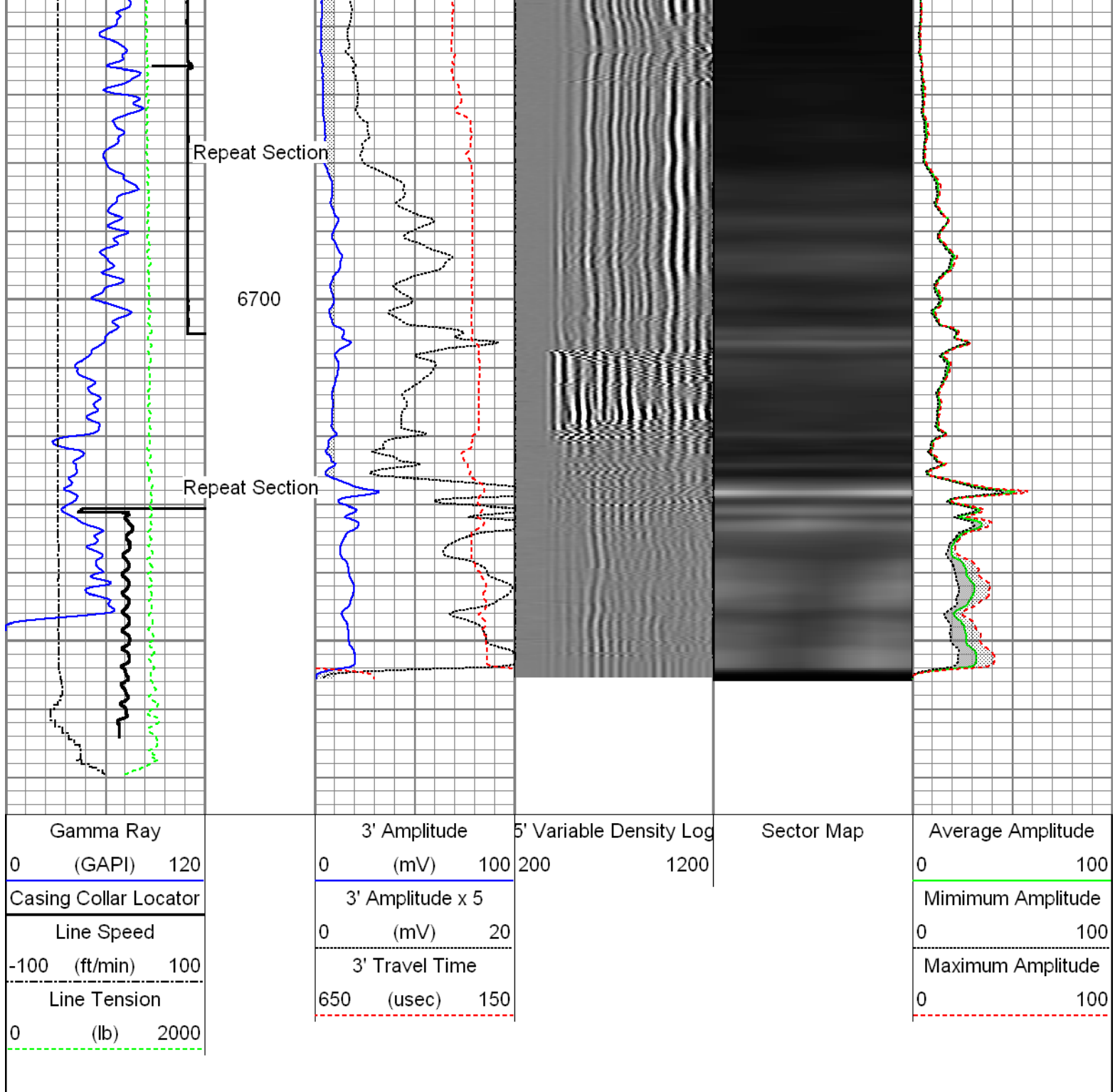


Repeat Pass


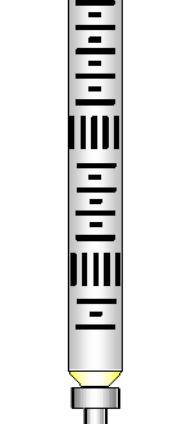

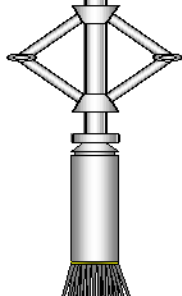

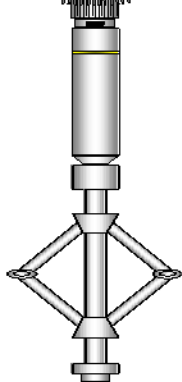
Logged With 2800 PSI Surface Induced

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			Minimum 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				





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	22.81		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 (10013902) Production Gamma Ray	1.93	1.69	9.50
			UW_PRC #4 -DSSRAC (082) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00

WVFS3FT	15.42			UW_RBT-UW_RBT_004 (10013454) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS1	15.42						
WVFS2	15.42						
WVFS3	15.42						
WVFS4	15.42						
WVFS5	15.42						
WVFS6	15.42						
WVFS7	15.42						
WVFS8	15.42						
CBLTEMP	15.42						
CBLROT	15.42						
WVFS5FT	14.42						
MIT	5.41			UW_PRC-DSSRAC (083) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	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 (1037) 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: 0512339181_anadarko_burkhardt 15n-3hz_10-10-14_mit_rbl.db: field/well/run1/7main Total Length: 27.05 ft Total Weight: 319.30 lb O.D. 3.13 in							

Calibration Report	
Database File:	0512339181_anadarko_burkhardt 15n-3hz_10-10-14_mit_rbl.db
Dataset Pathname:	7main
Dataset Creation:	Fri Oct 10 13:33:21 2014 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

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

Finger Calibration Report

Performed: Fri Oct 10 11:57:01 2014

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1447	271.0	1718	279.0	1997	299.0	2296
Finger 02:	1497	251.0	1748	251.0	1999	267.0	2266
Finger 03:	1406	275.0	1681	280.0	1961	308.0	2269
Finger 04:	1442	276.0	1718	274.0	1992	301.0	2293
Finger 05:	1481	265.0	1746	262.0	2008	291.0	2299
Finger 06:	1407	276.0	1683	278.0	1961	312.0	2273
Finger 07:	1407	273.0	1680	276.0	1956	315.0	2271
Finger 08:	1414	266.0	1680	270.0	1950	308.0	2258
Finger 09:	1430	275.0	1705	279.0	1984	314.0	2298
Finger 10:	1433	264.0	1697	270.0	1967	303.0	2270
Finger 11:	1421	272.0	1693	278.0	1971	314.0	2285
Finger 12:	1380	277.0	1657	286.0	1943	322.0	2265
Finger 13:	1482	250.0	1732	263.0	1995	286.0	2281
Finger 14:	1434	258.0	1692	276.0	1968	305.0	2273
Finger 15:	1430	269.0	1699	291.0	1990	313.0	2303
Finger 16:	1438	265.0	1703	287.0	1990	302.0	2292
Finger 17:	1434	272.0	1706	295.0	2001	313.0	2314
Finger 18:	1424	268.0	1692	289.0	1981	297.0	2278
Finger 19:	1474	267.0	1741	293.0	2034	296.0	2330
Finger 20:	1461	267.0	1728	295.0	2023	300.0	2323
Finger 21:	1393	275.0	1668	315.0	1983	319.0	2302
Finger 22:	1443	262.0	1705	292.0	1997	286.0	2283
Finger 23:	1448	269.0	1717	299.0	2016	291.0	2307
Finger 24:	1480	269.0	1749	297.0	2046	279.0	2325
Finger 25:	1455	274.0	1729	304.0	2033	289.0	2322
Finger 26:	1422	275.0	1697	307.0	2004	292.0	2296
Finger 27:	1478	269.0	1747	295.0	2042	275.0	2317
Finger 28:	1437	274.0	1711	305.0	2016	290.0	2306
Finger 29:	1522	261.0	1783	287.0	2070	267.0	2337
Finger 30:	1389	276.0	1665	303.0	1968	294.0	2262
Finger 31:	1450	281.0	1731	307.0	2038	289.0	2327
Finger 32:	1510	266.0	1776	283.0	2059	268.0	2327
Finger 33:	1426	282.0	1708	304.0	2012	295.0	2307
Finger 34:	1454	278.0	1732	299.0	2031	293.0	2324
Finger 35:	1478	259.0	1737	269.0	2006	267.0	2273
Finger 36:	1482	265.0	1747	280.0	2027	283.0	2310
Finger 37:	1460	277.0	1737	289.0	2026	294.0	2320
Finger 38:	1501	251.0	1752	256.0	2008	267.0	2275
Finger 39:	1443	269.0	1712	276.0	1988	285.0	2273
Finger 40:	1403	279.0	1682	290.0	1972	308.0	2280

Segmented Cement Bond Log Calibration Report

Serial Number:	10013454
Tool Model:	UW_RBT_004
Calibration Casing Diameter:	7.000 in
Calibration Depth:	15.000 ft

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.002	1.002	0.800	62.165	61.089	0.945
5FT	-0.004	0.990	0.800	62.165	61.760	1.026
S1	-0.002	1.002	0.000	100.000	99.592	0.219
S2	-0.004	1.002	0.000	100.000	99.420	0.364
S3	-0.003	1.007	0.000	100.000	99.079	0.256
S4	-0.004	1.007	0.000	100.000	98.931	0.362
S5	-0.002	1.009	0.000	100.000	98.844	0.220
S6	-0.004	1.009	0.000	100.000	98.724	0.362
S7	-0.002	0.998	0.000	100.000	99.976	0.244
S8	-0.003	1.000	0.000	100.000	99.768	0.257

Gamma Ray Calibration Report

Serial Number:	10013902	
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 LP
Well	Burkhardt 15N-3HZ
Field	Wattenberg
County	Weld
State	Colorado