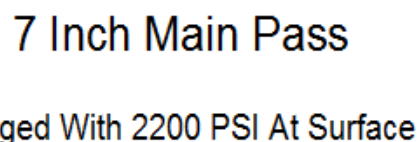


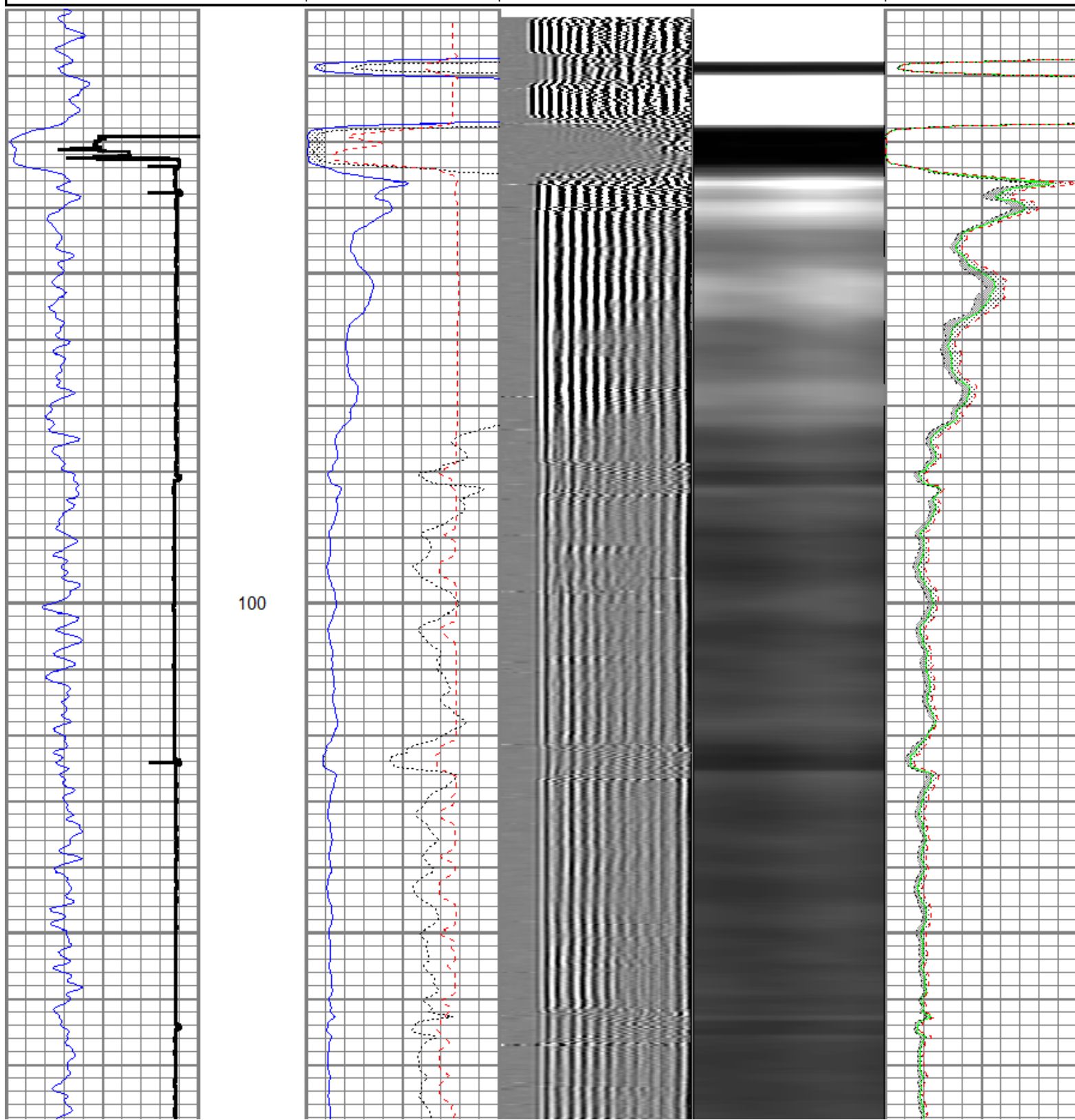


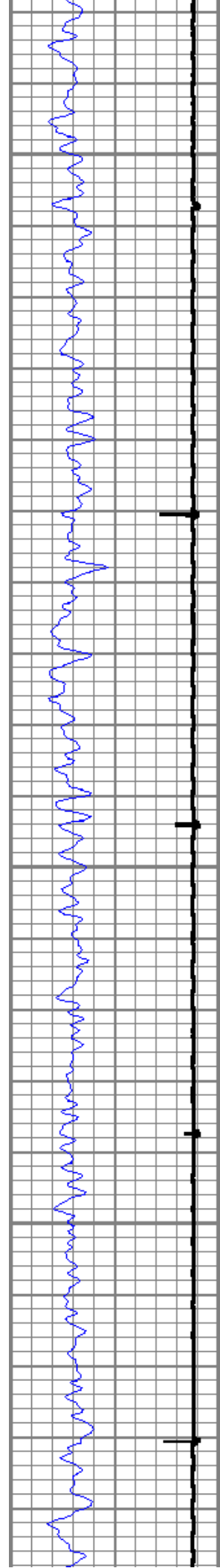
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
<p>Radial Cement Bond Log - Casing Inspection Log is first recorded log in hole. Log correlated to reported casing tally at top of liner @ 6377 FT Adjusted 6 FT to liner top at 6377 FT RCBL-CIL ran at 2200 PSI surface induced pressure Estimated Cement Top recorded at Surface</p> <p>Thank you for choosing FMC Technologies Completion Services!!</p>



Database File: anadarko_kerbs_5n-14hz_cil_rcbl.db
 Dataset Pathname: 7main1
 Presentation Format: rbt007
 Dataset Creation: Sat Apr 12 11:48:33 2014 by Log Sondex V7.03
 Charted by: Depth in Feet scaled 1:240

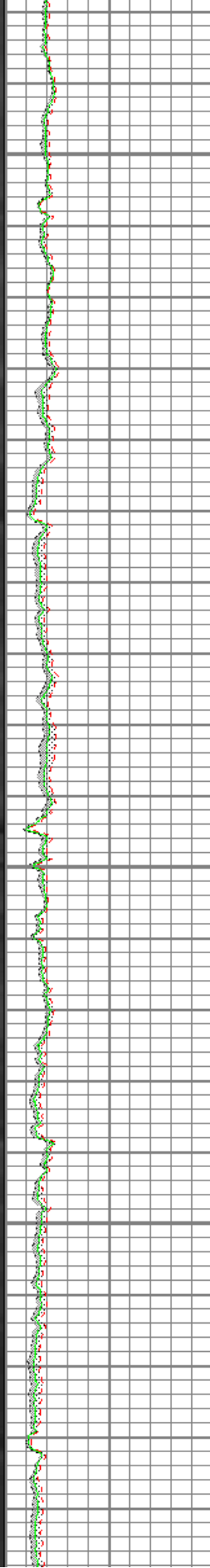
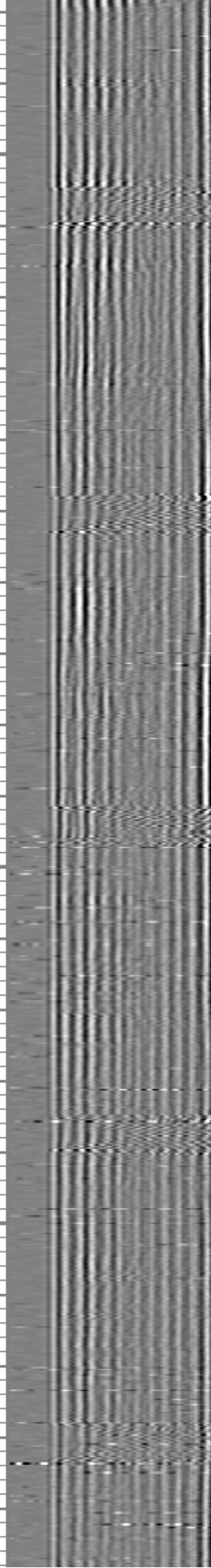
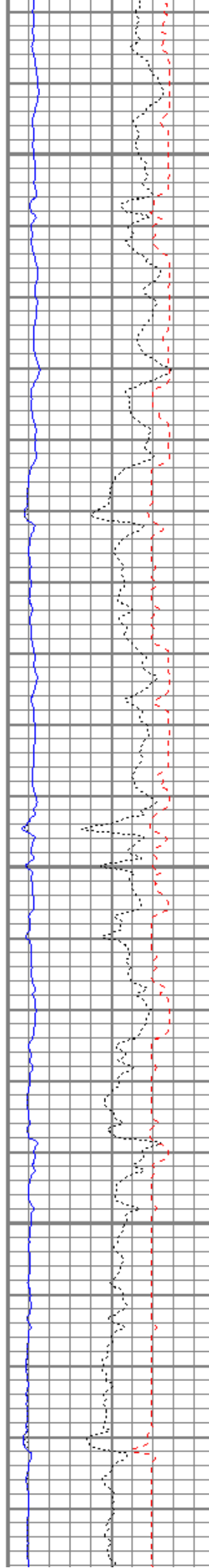
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200	0 80	0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
	0 (mV) 20			0 100
	3' Travel Time			Maximum Amplitude
	650 (usec) 150			0 100

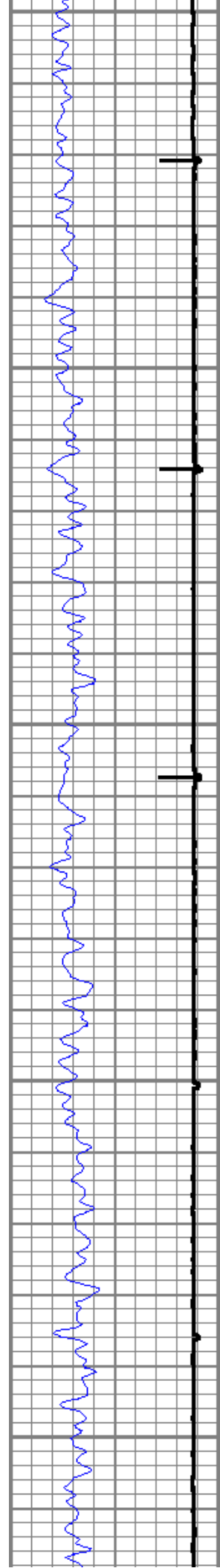




200

300

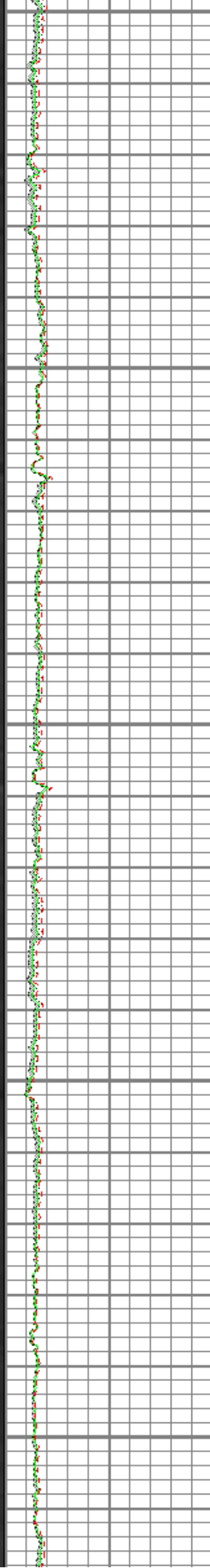
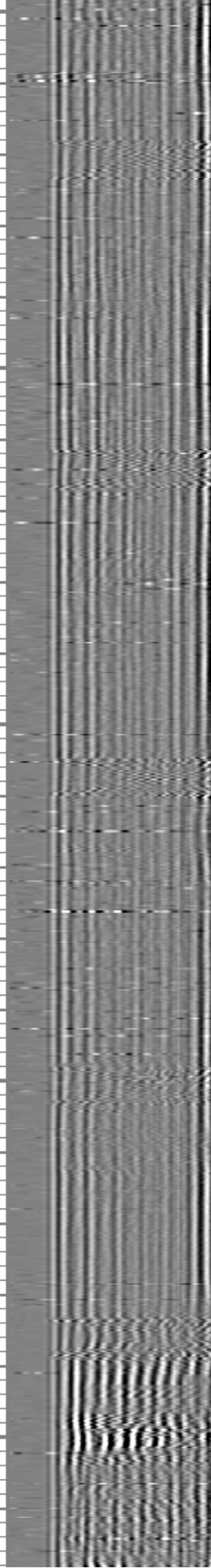
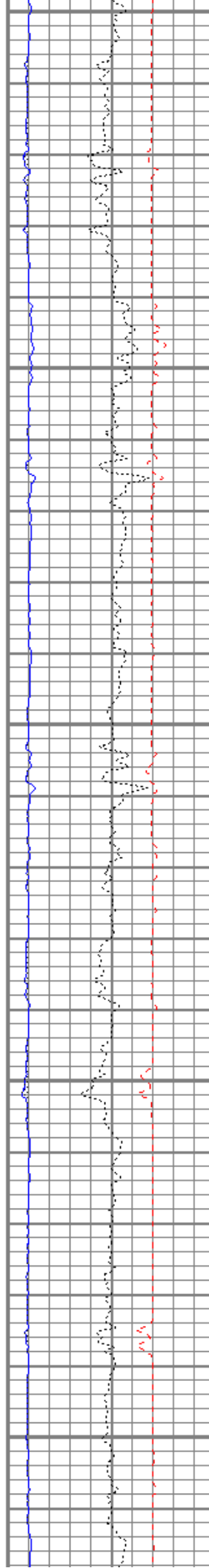


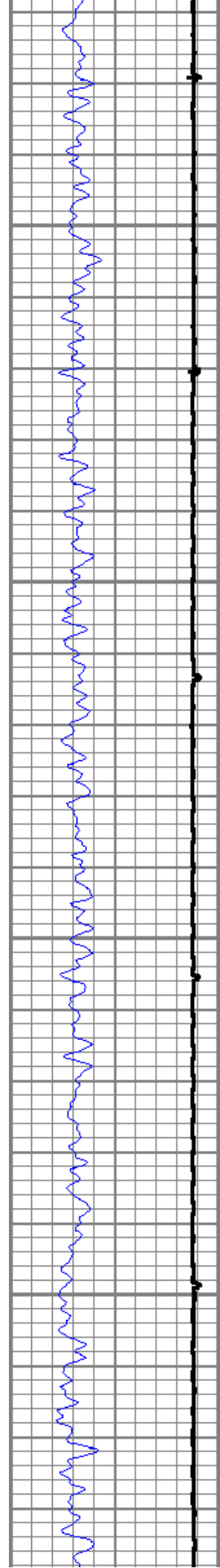


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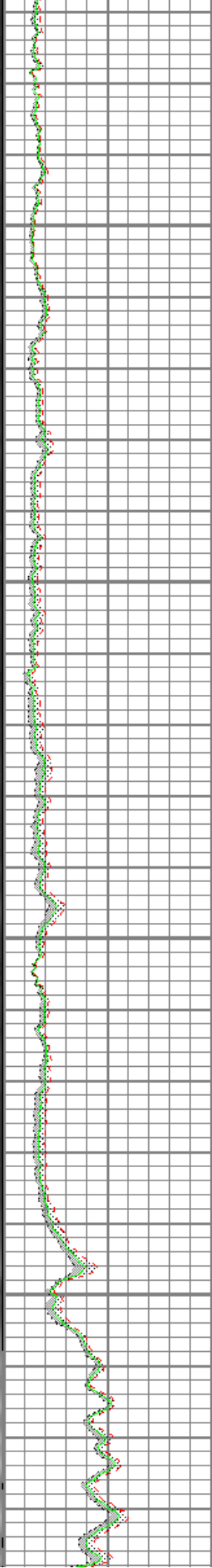
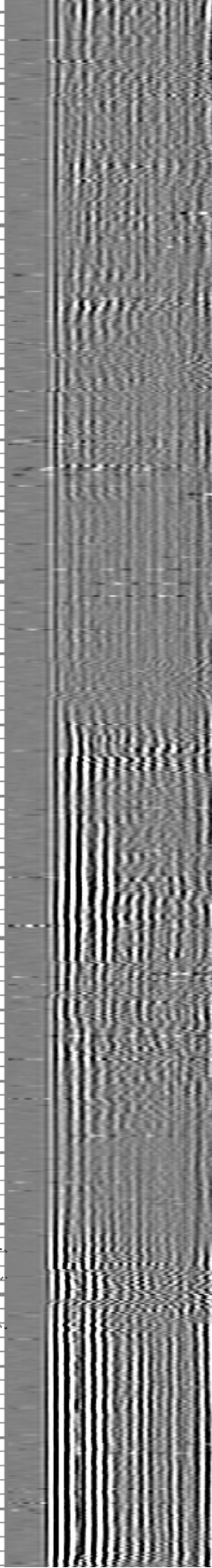
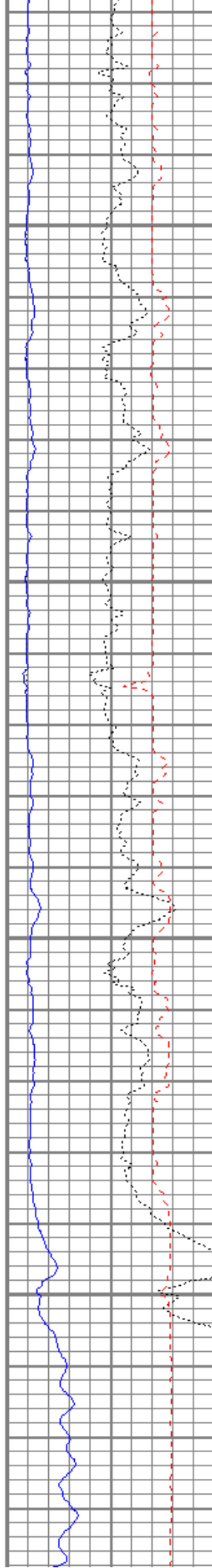
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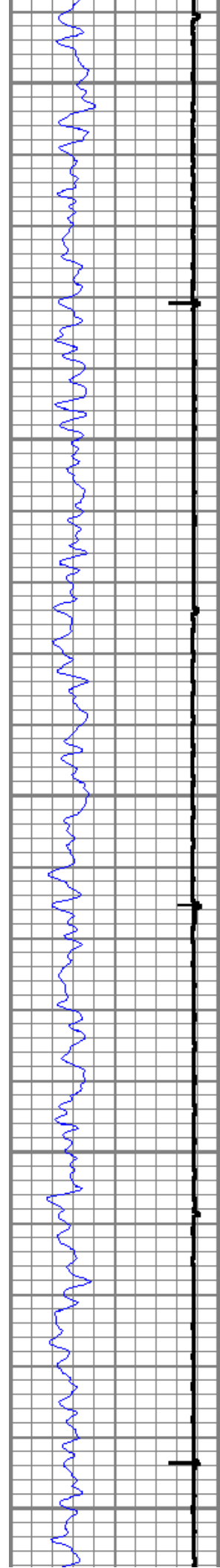




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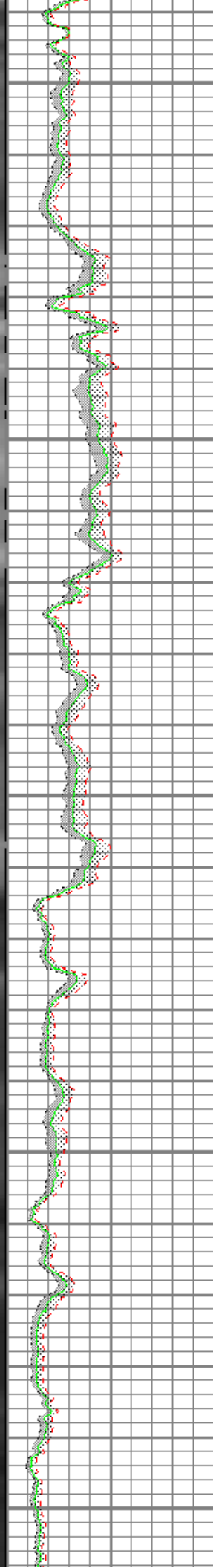
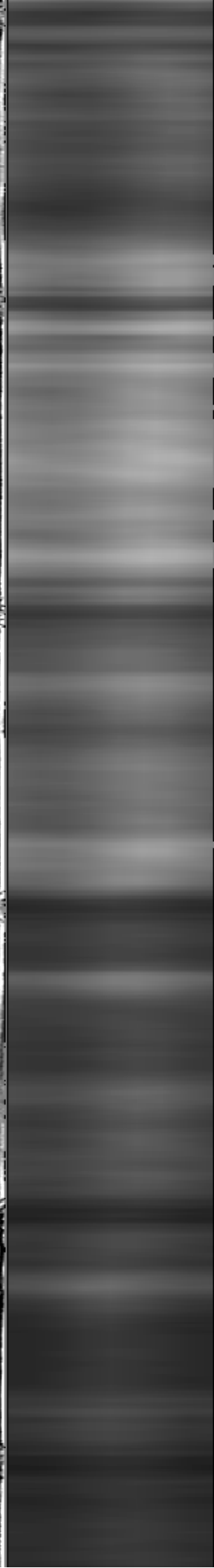
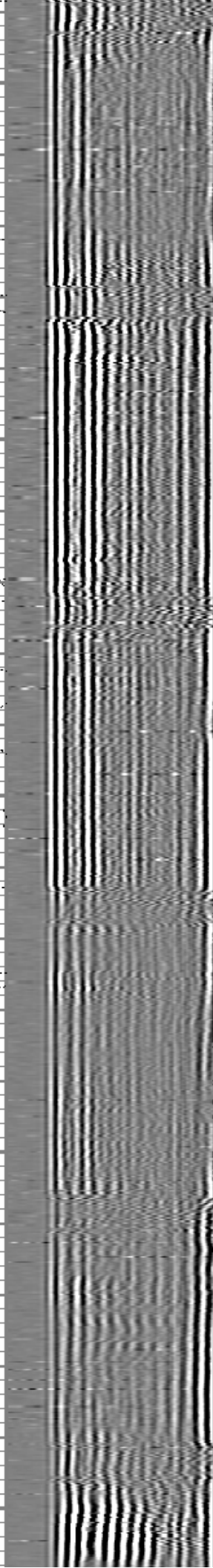
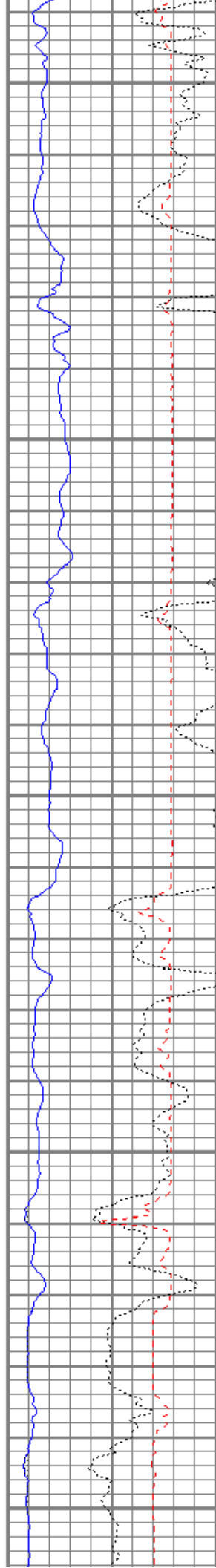
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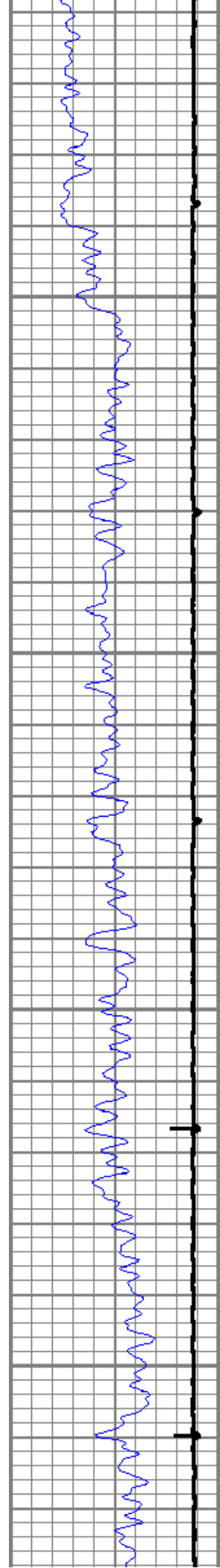




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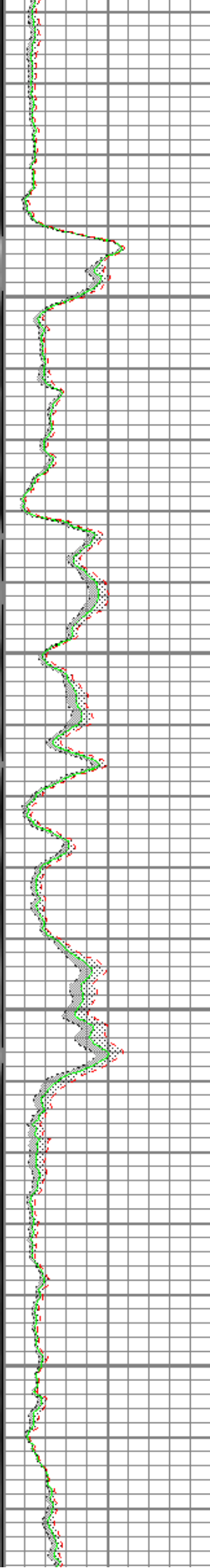
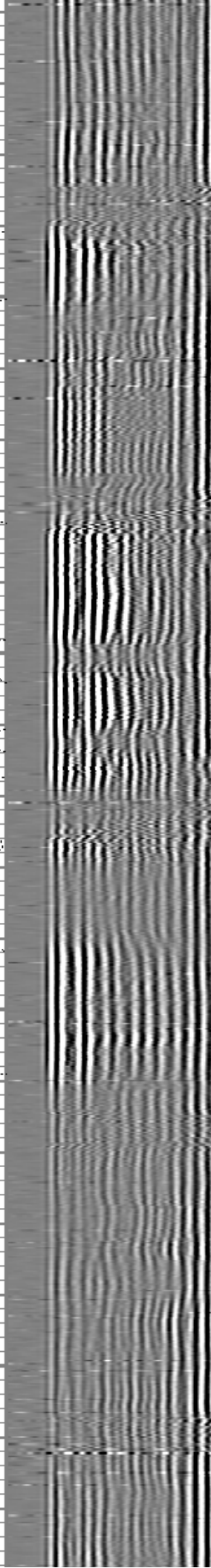
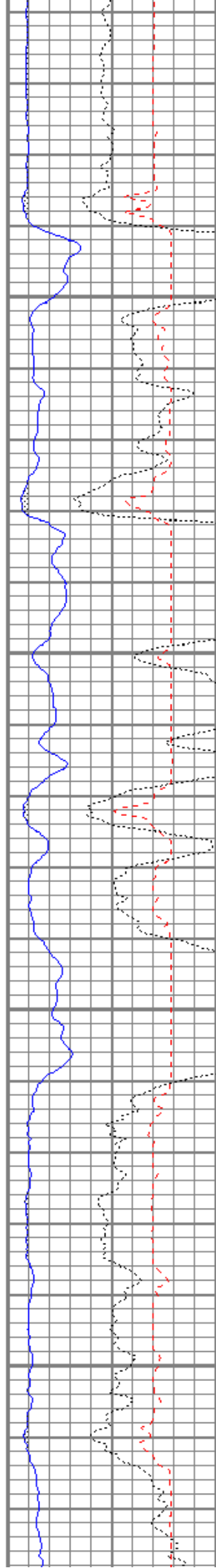
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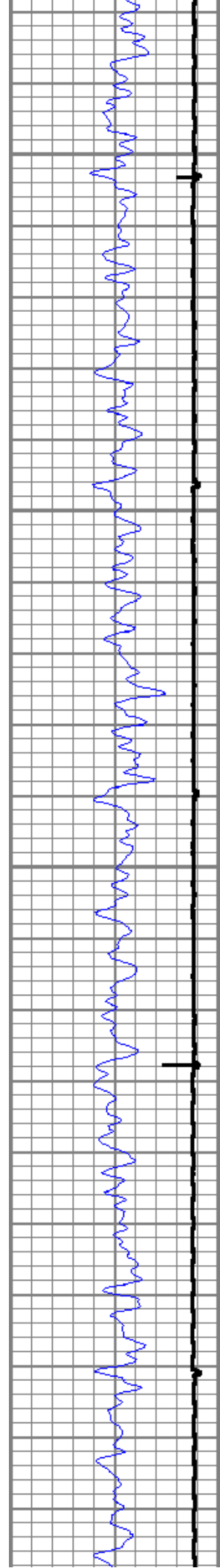




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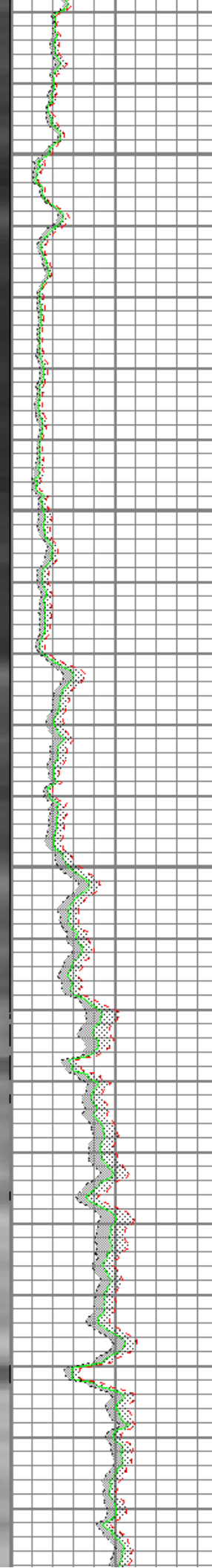
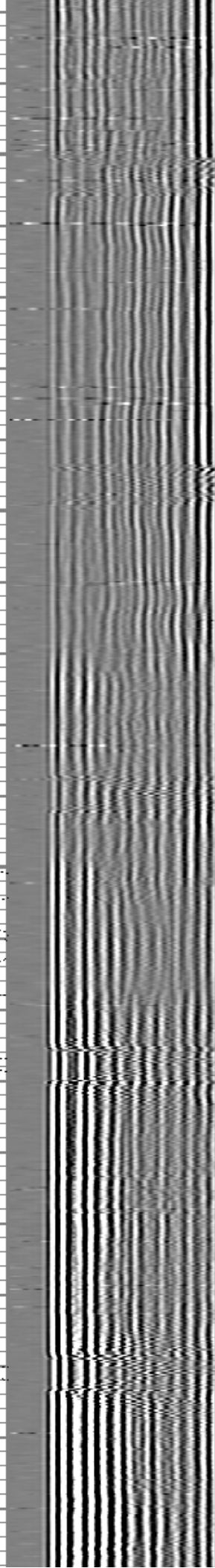
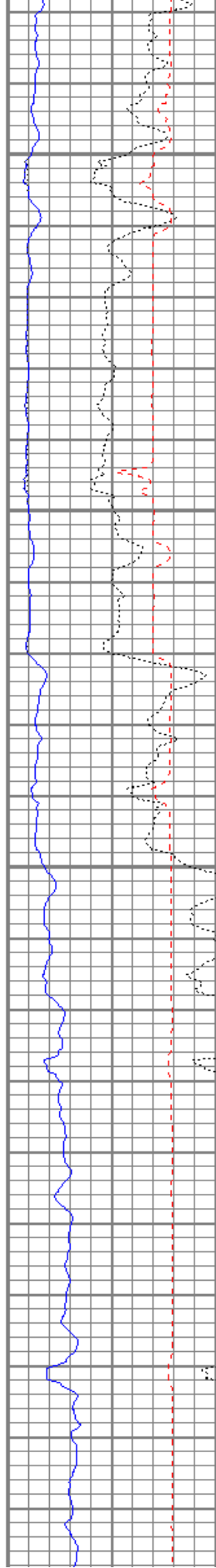
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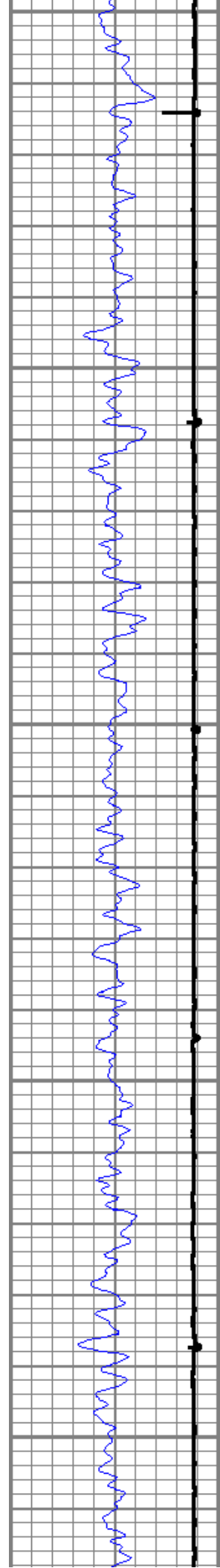




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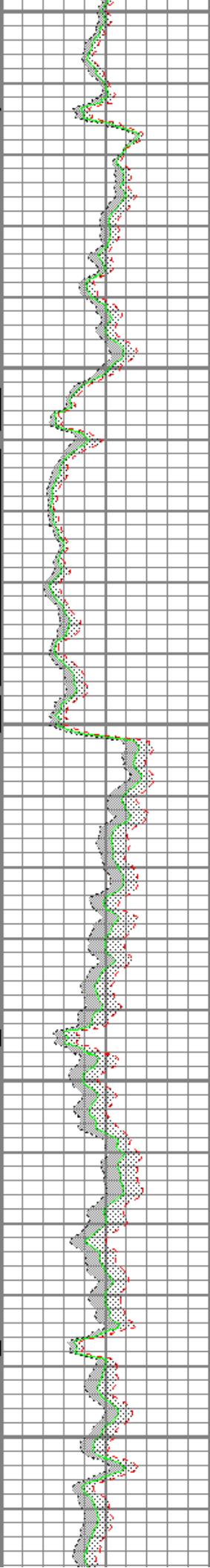
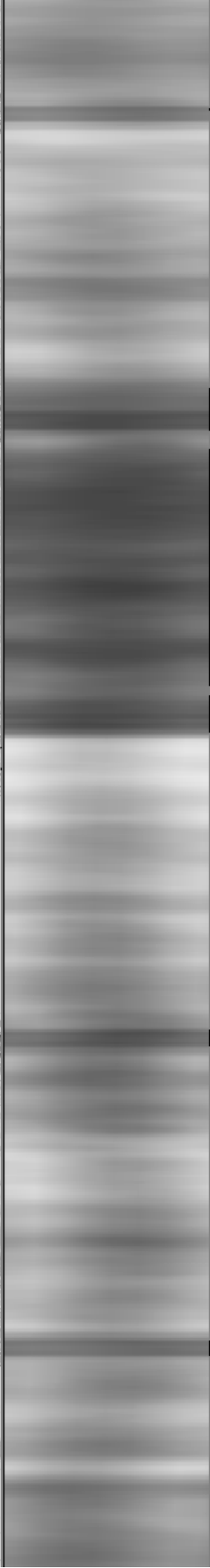
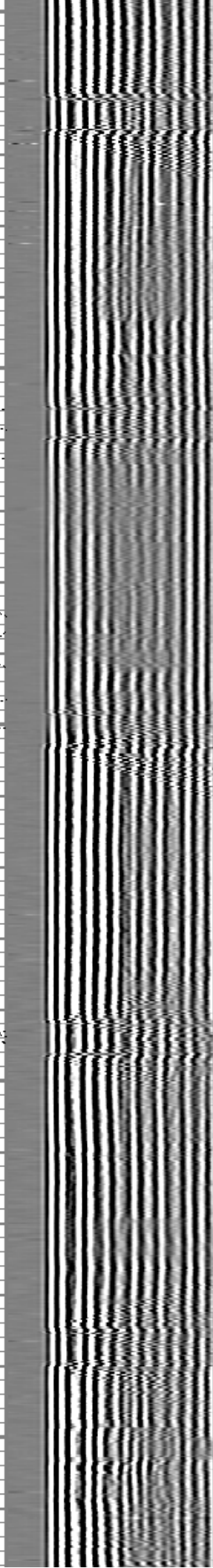
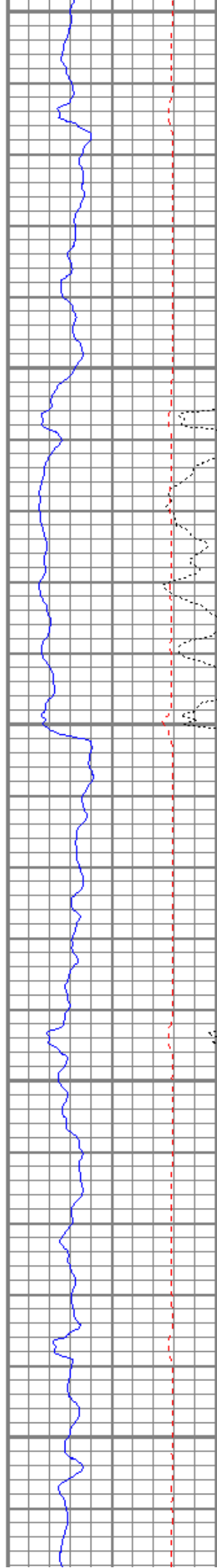


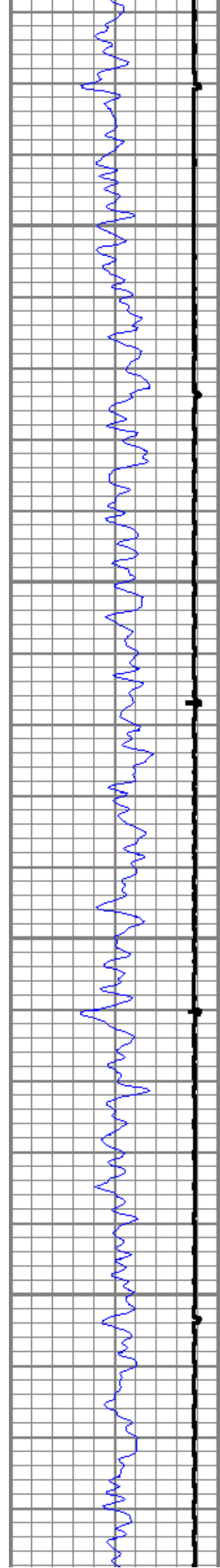


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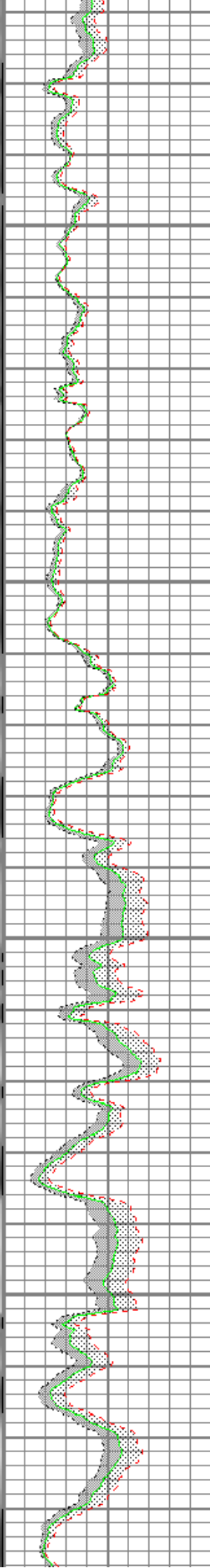
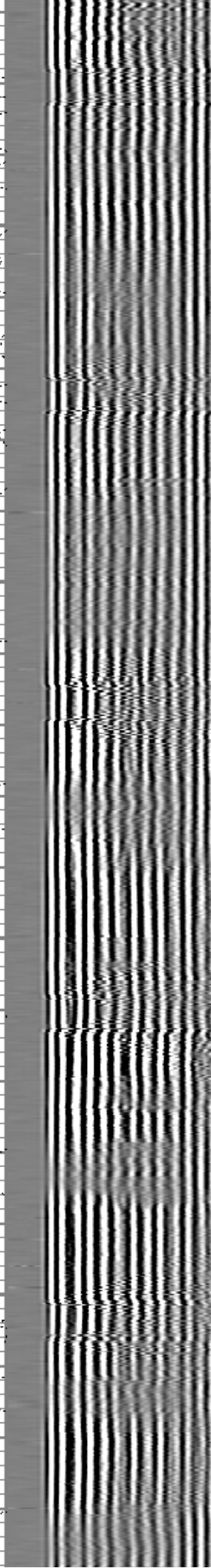
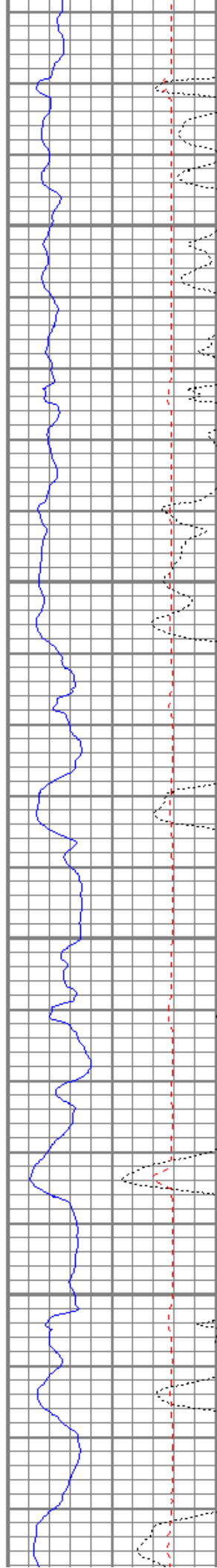
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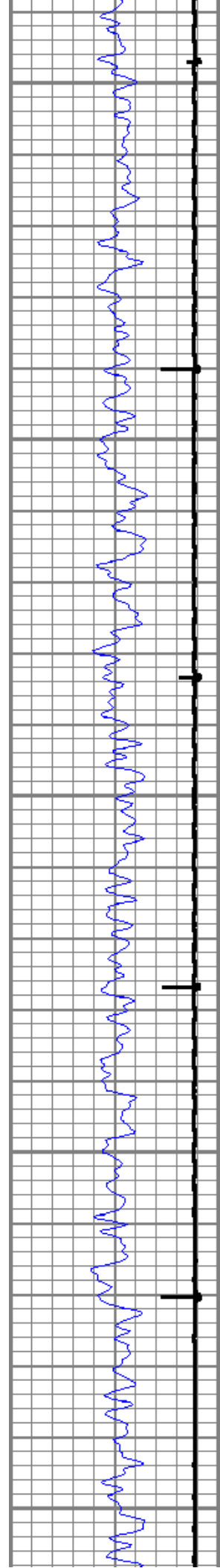




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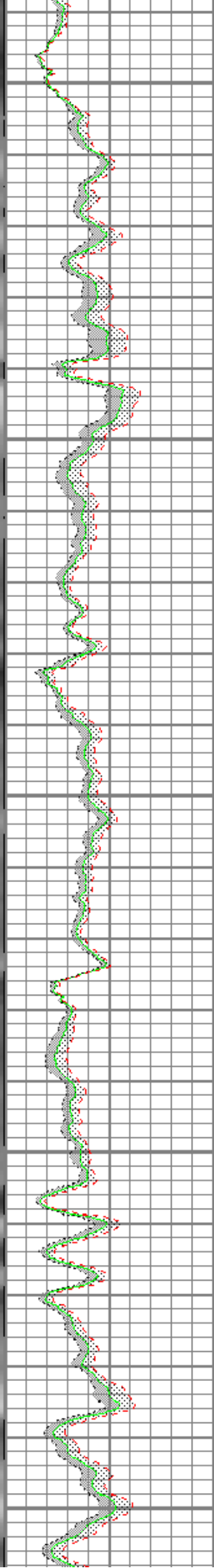
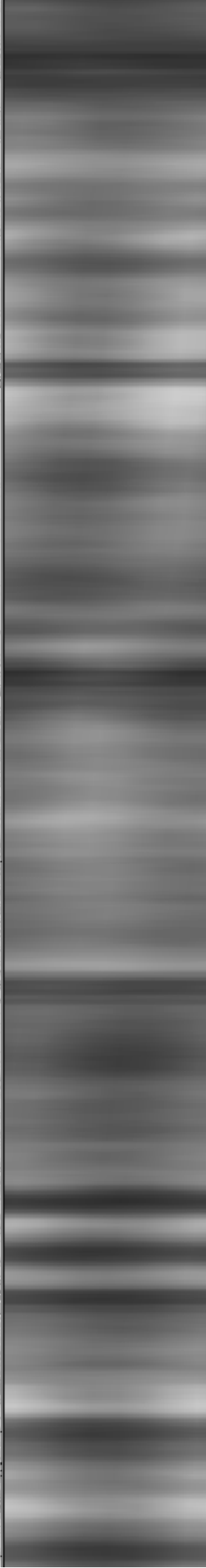
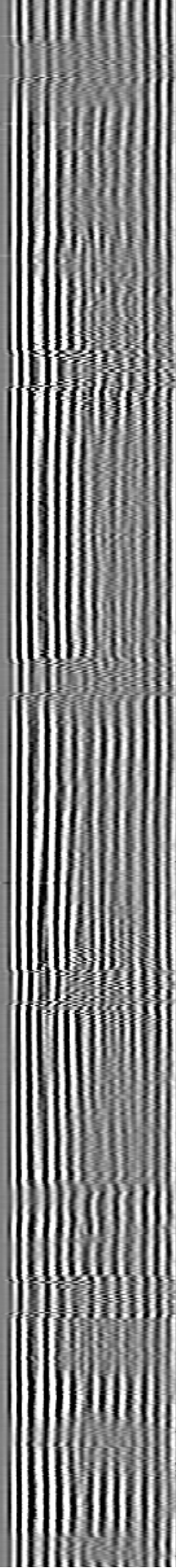
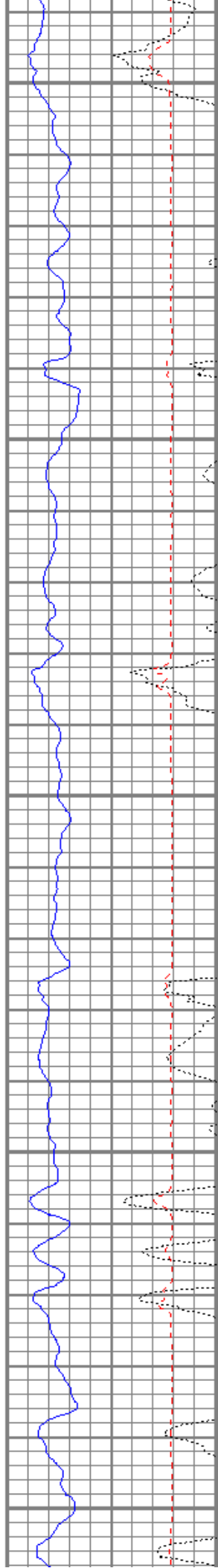
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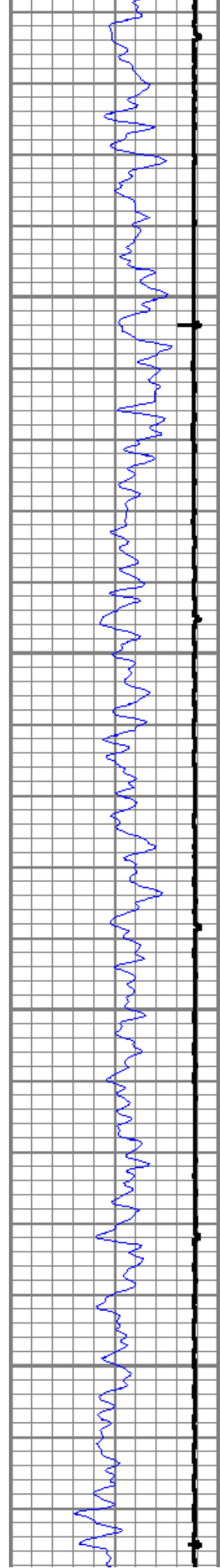




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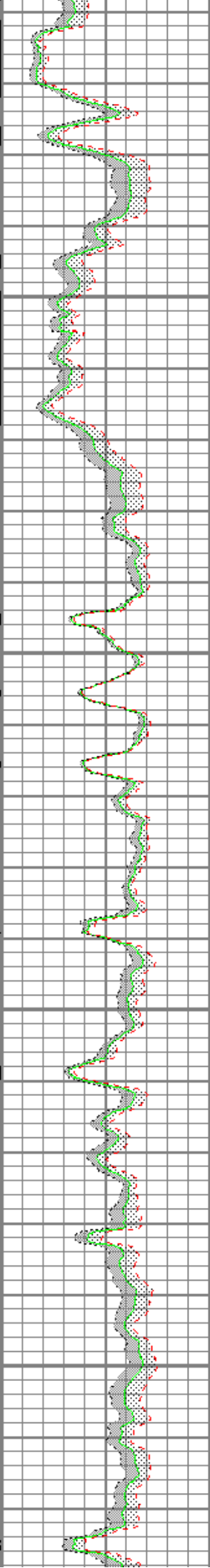
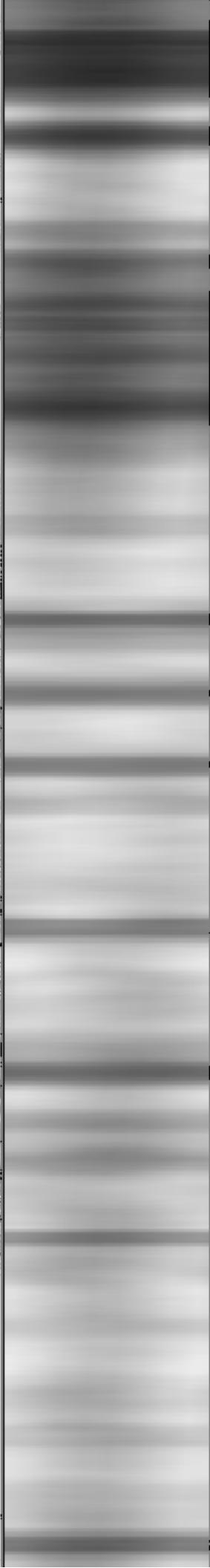
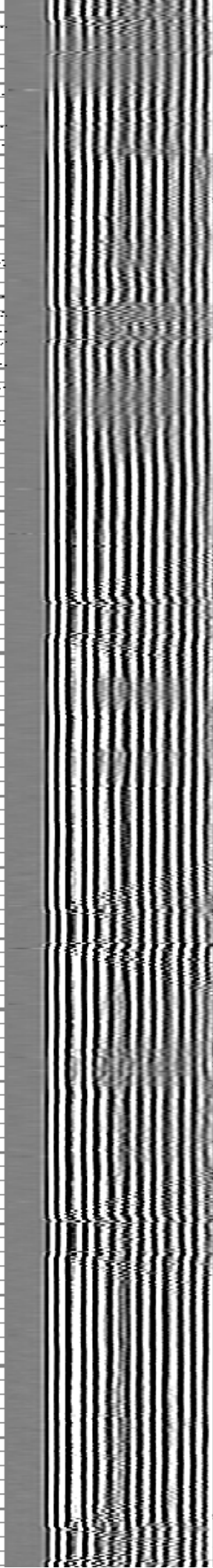
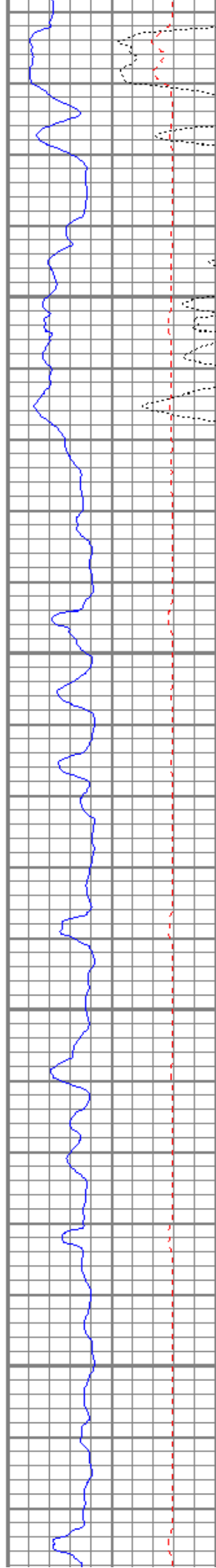
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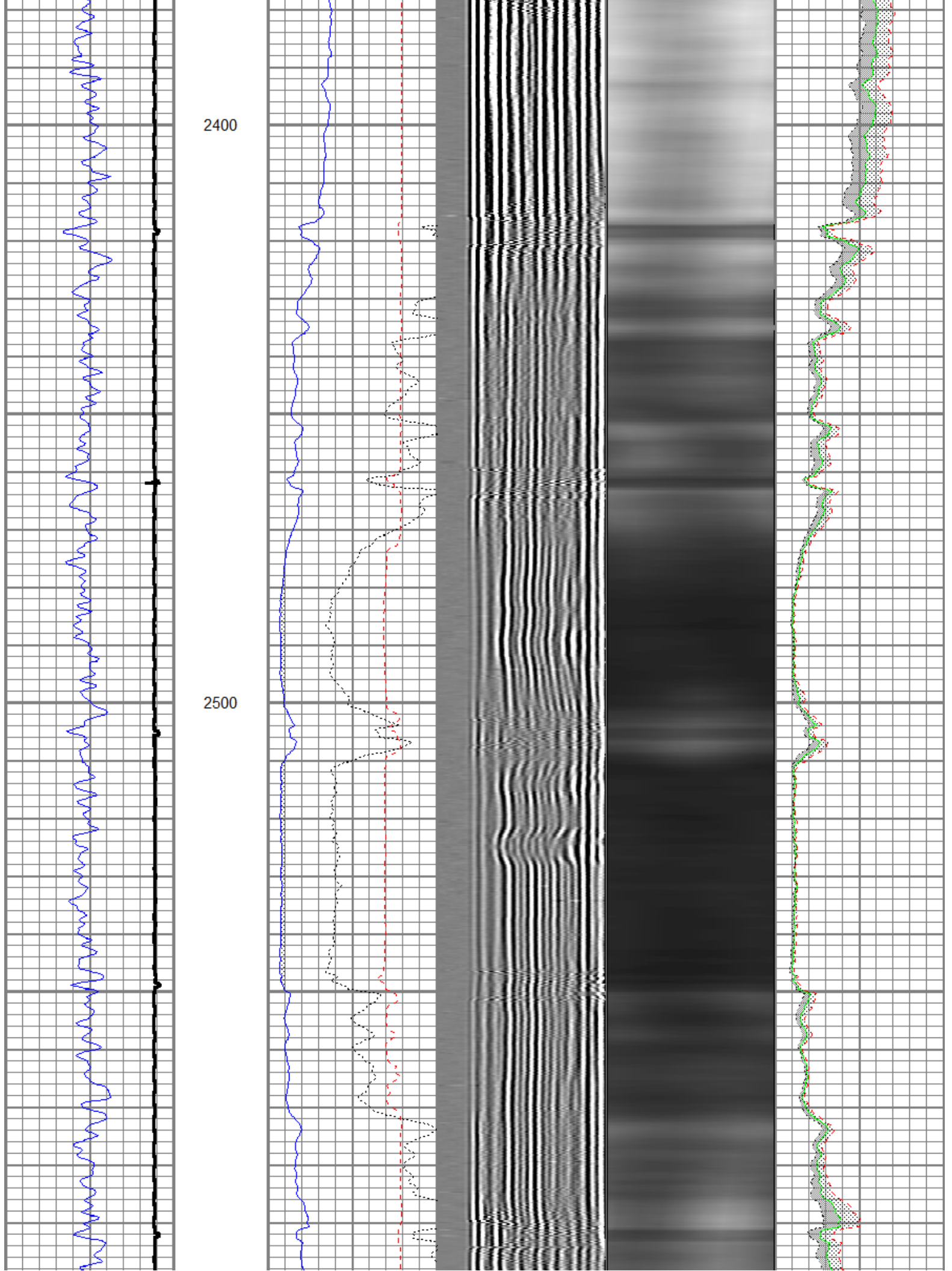




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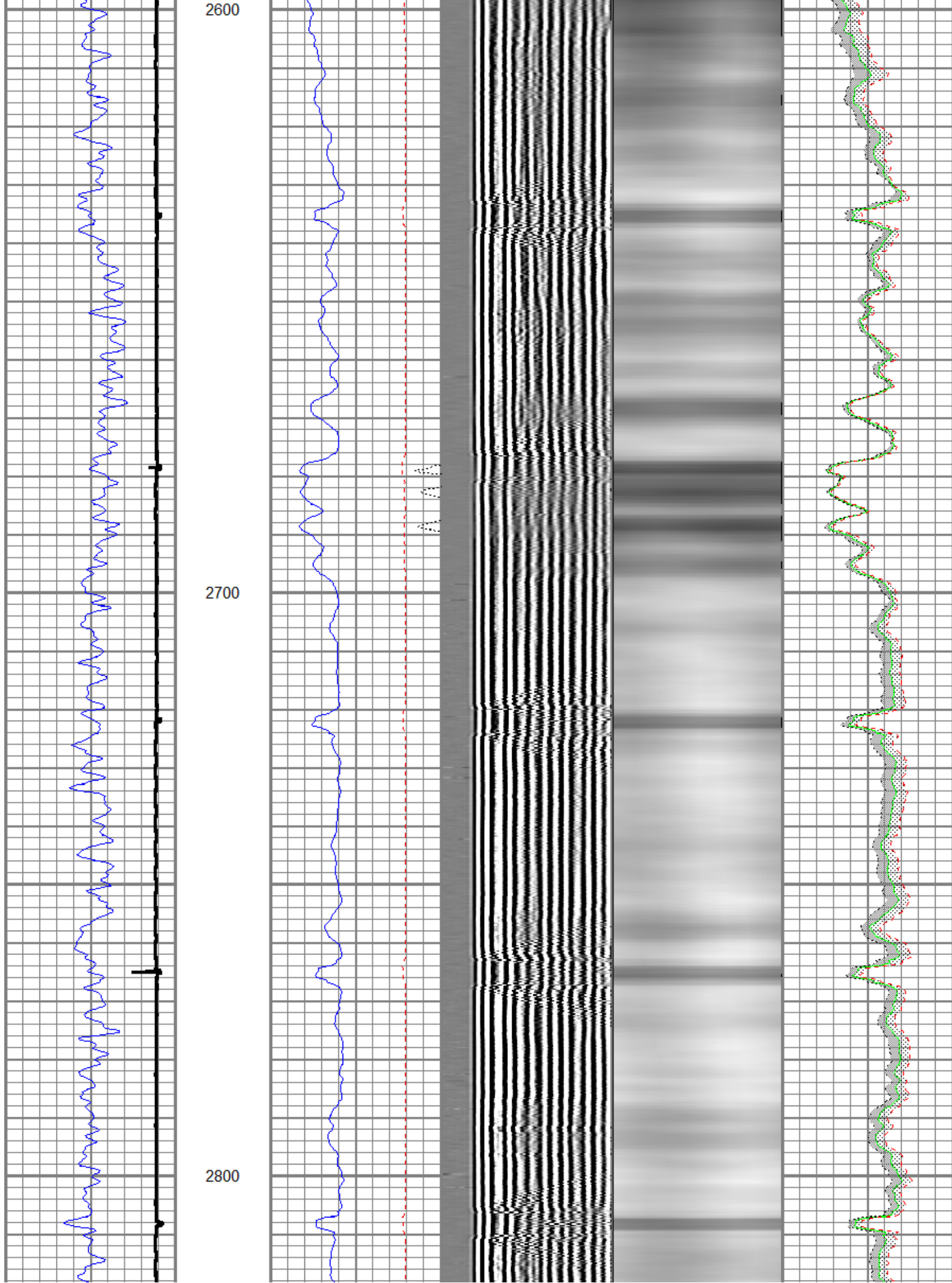


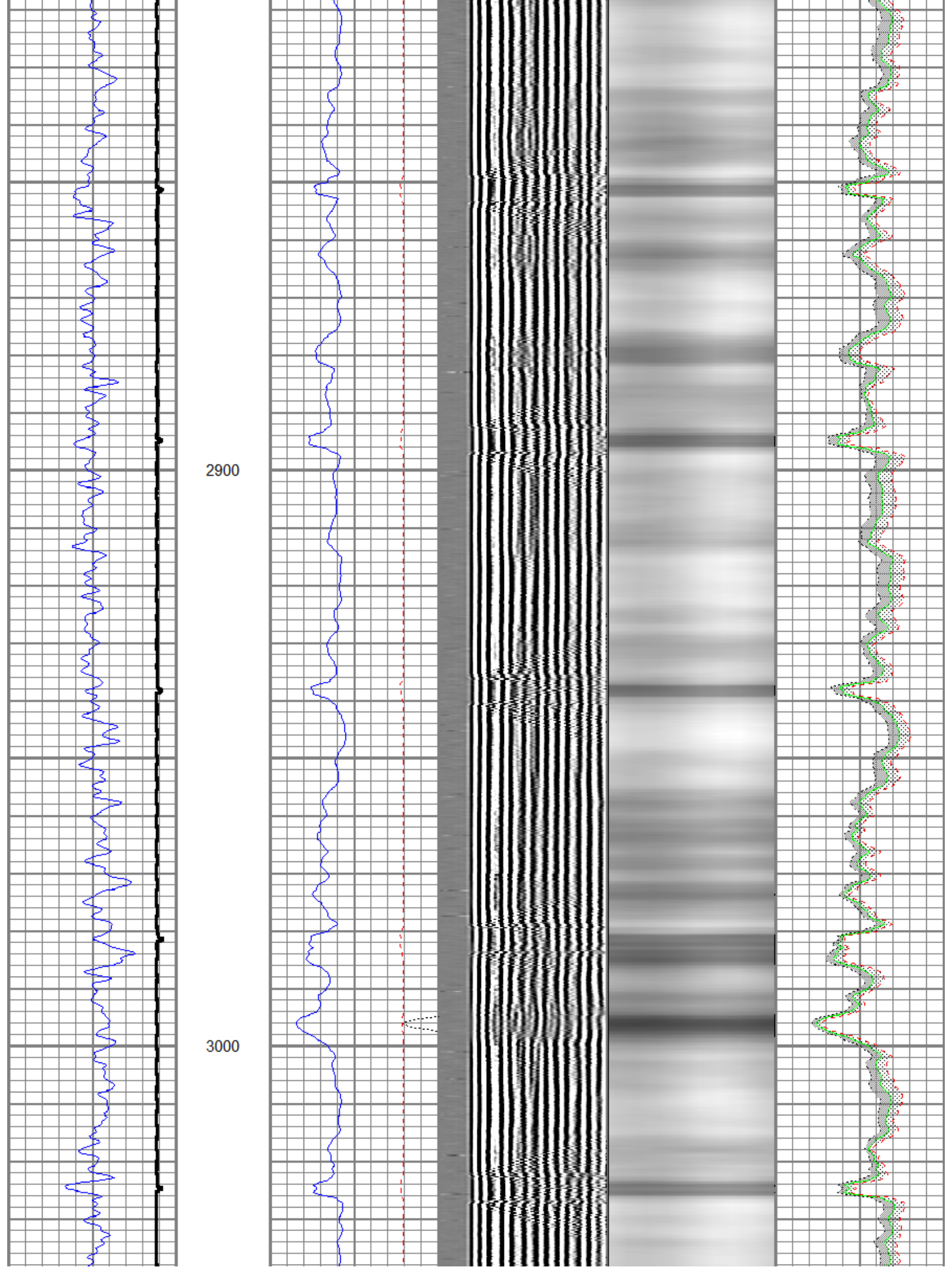


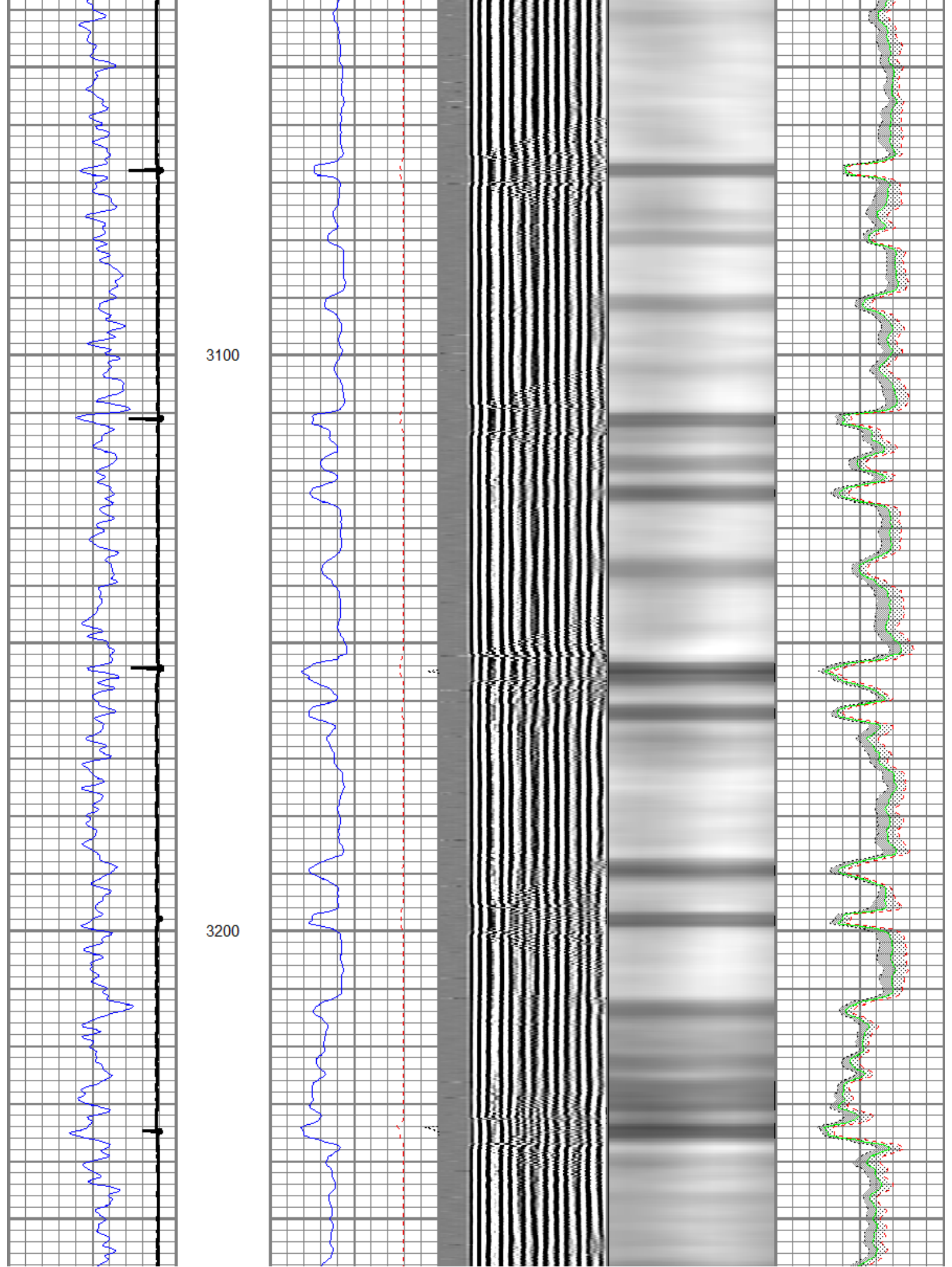
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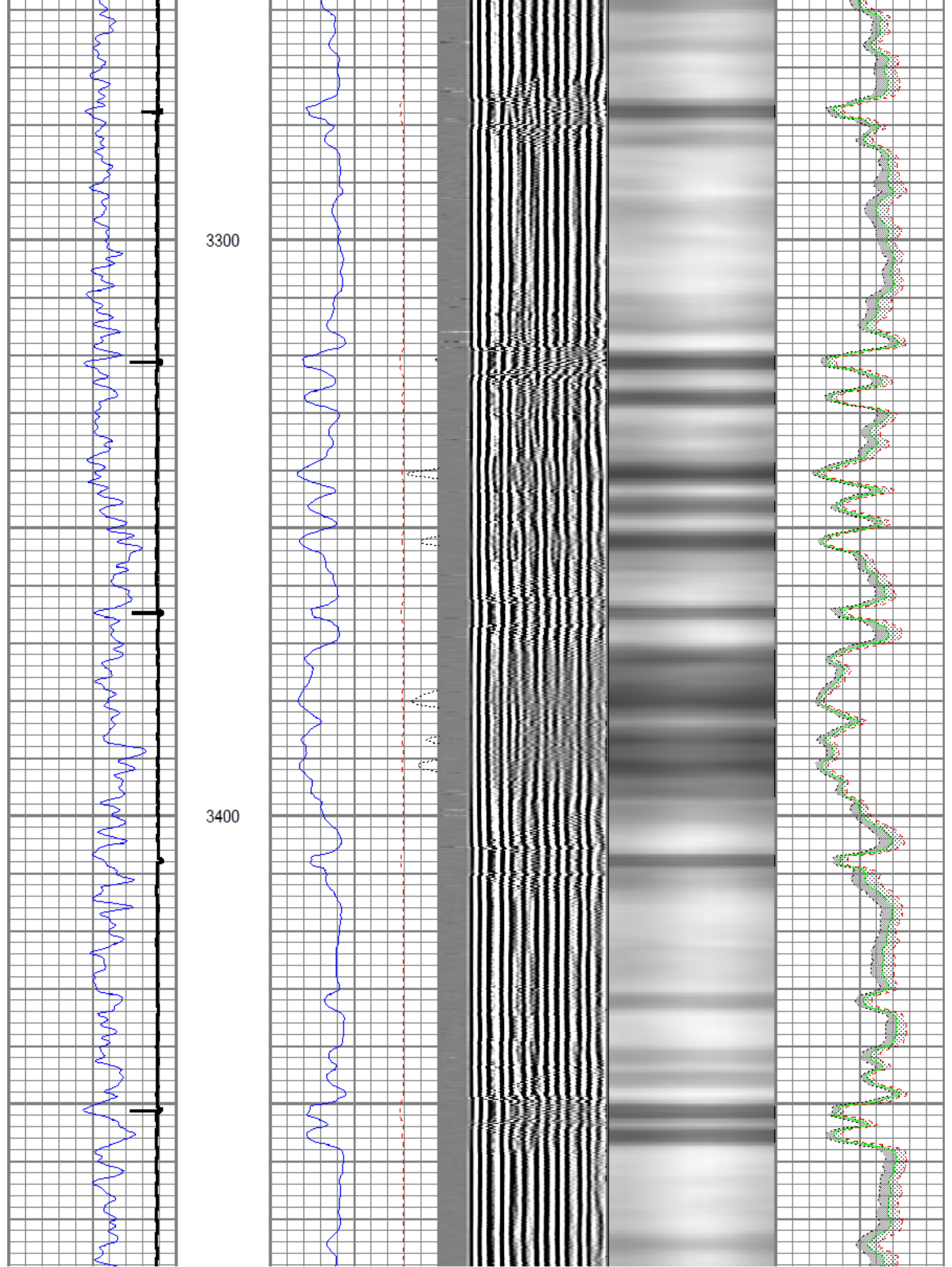
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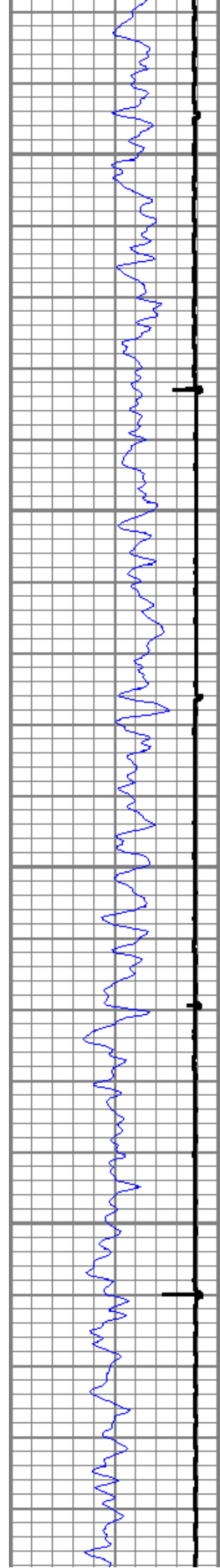
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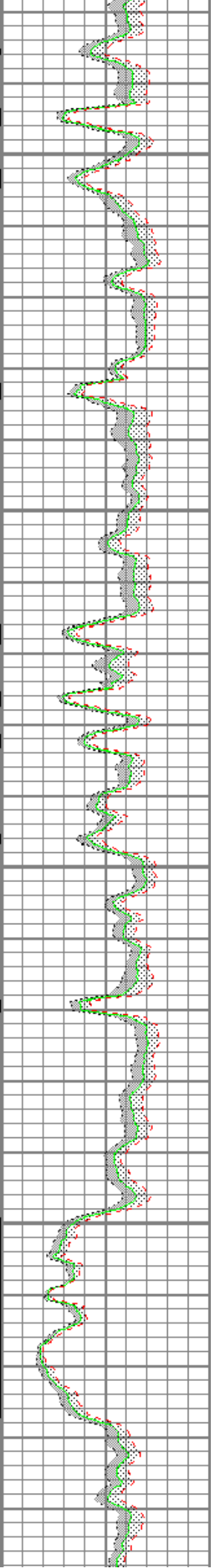
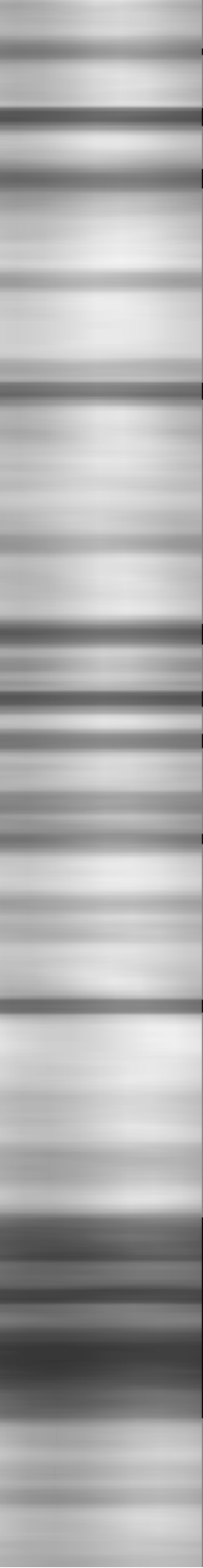
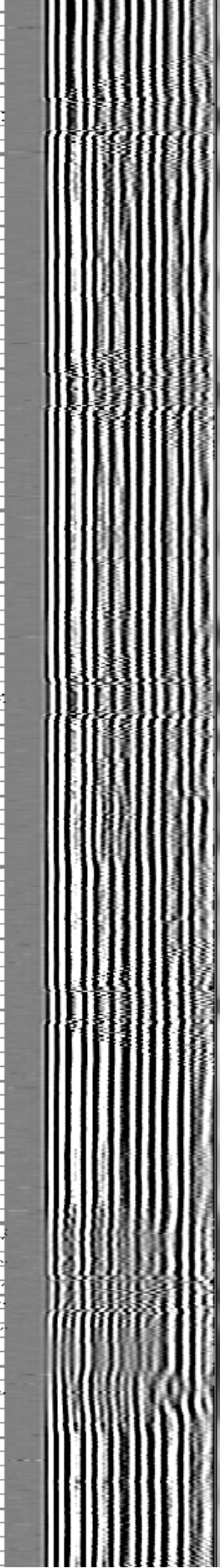
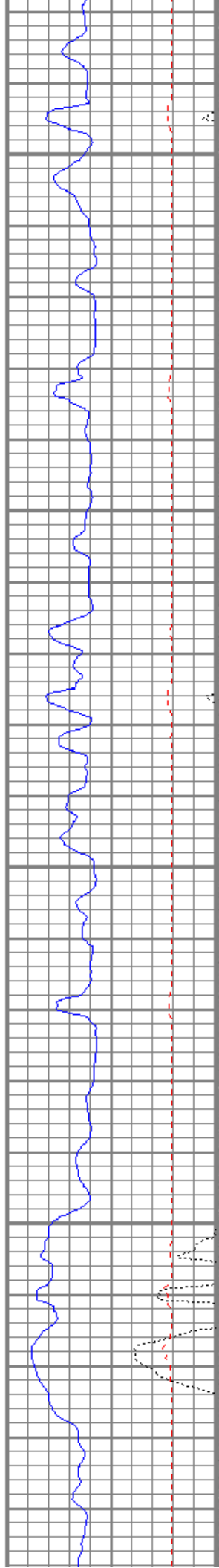


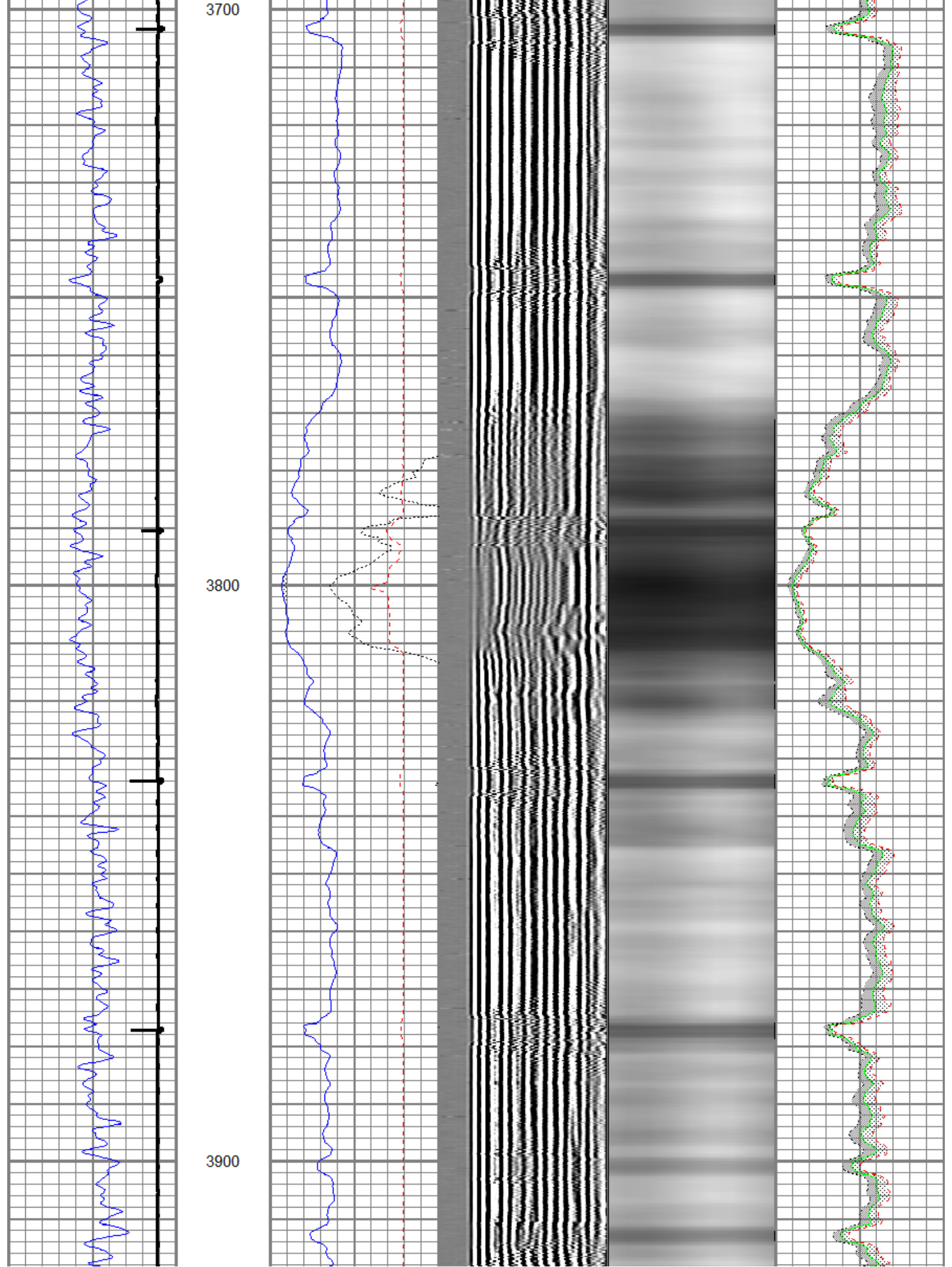


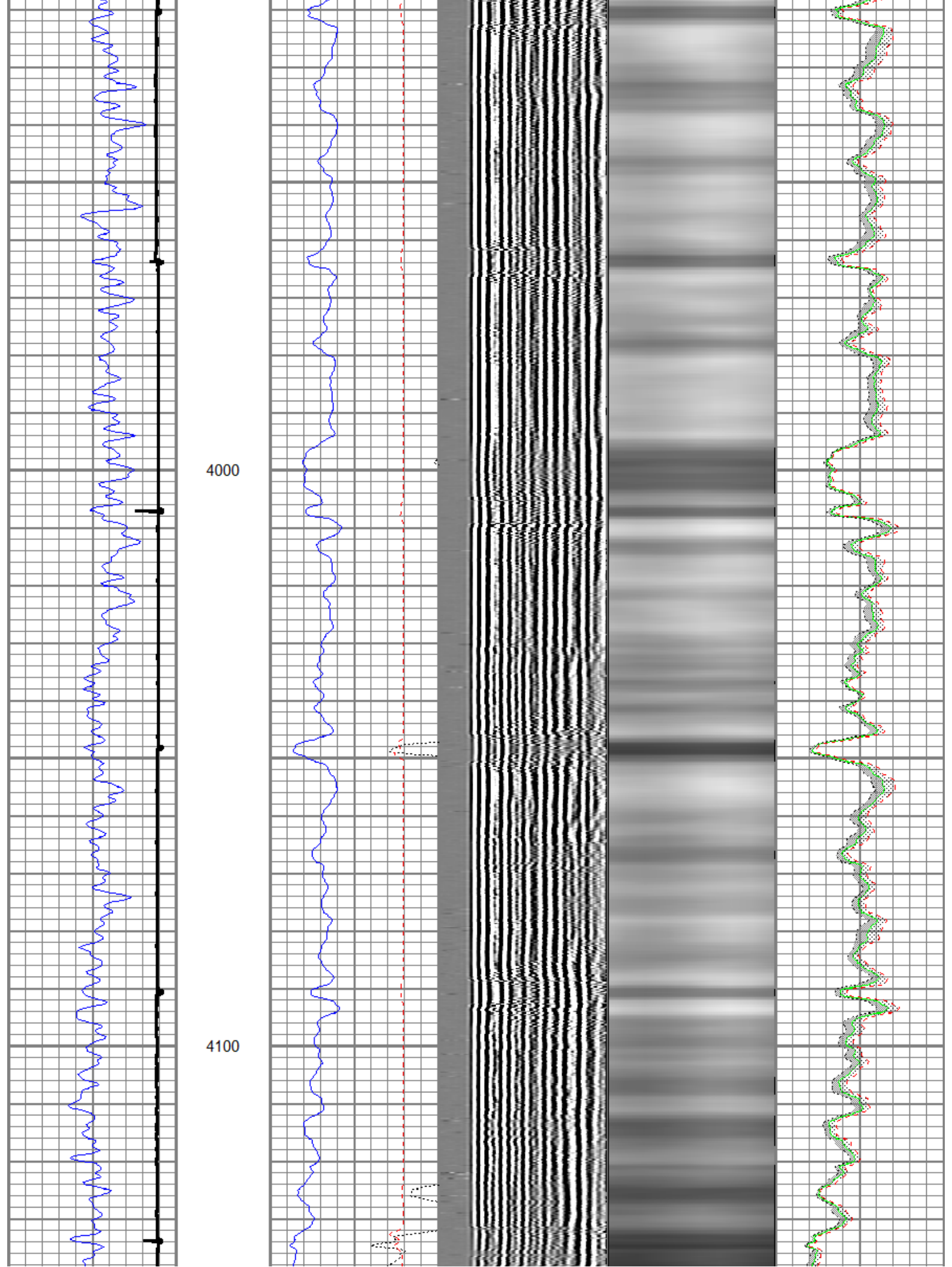


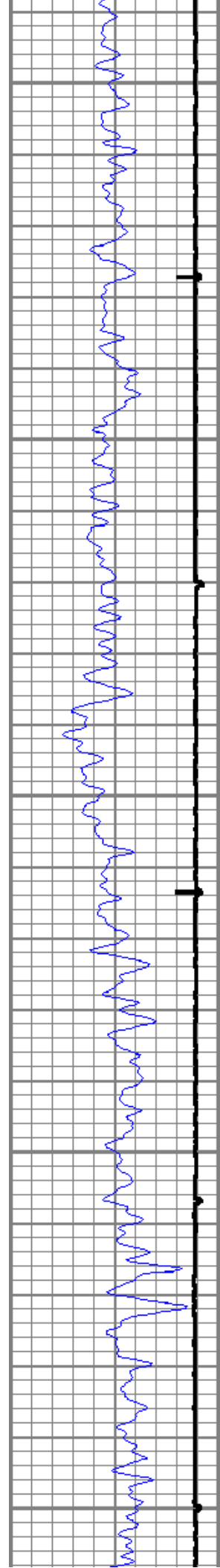
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3600



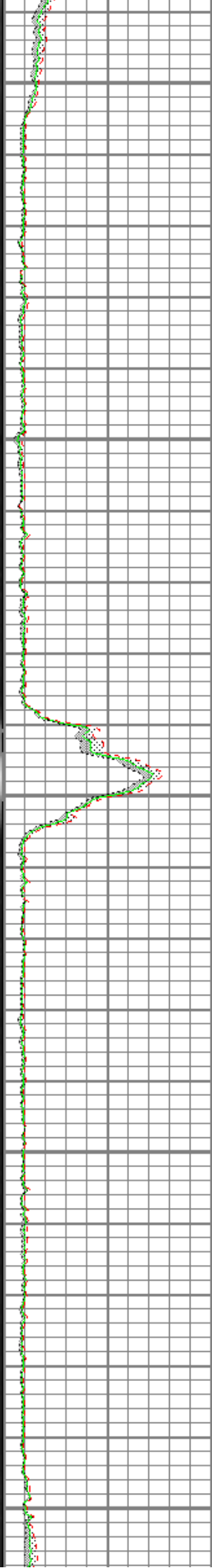
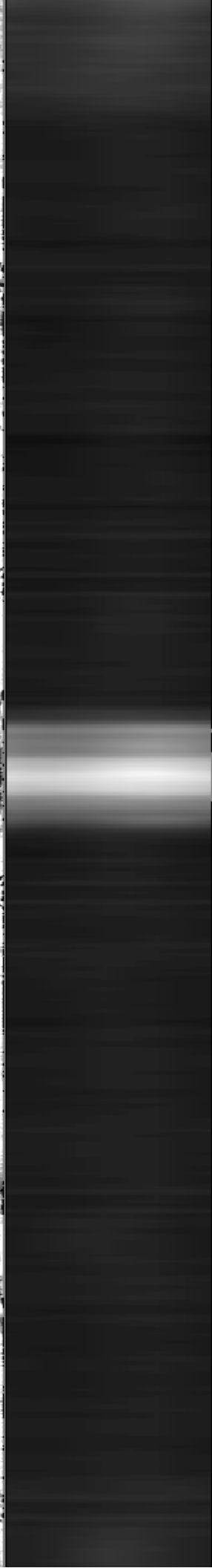
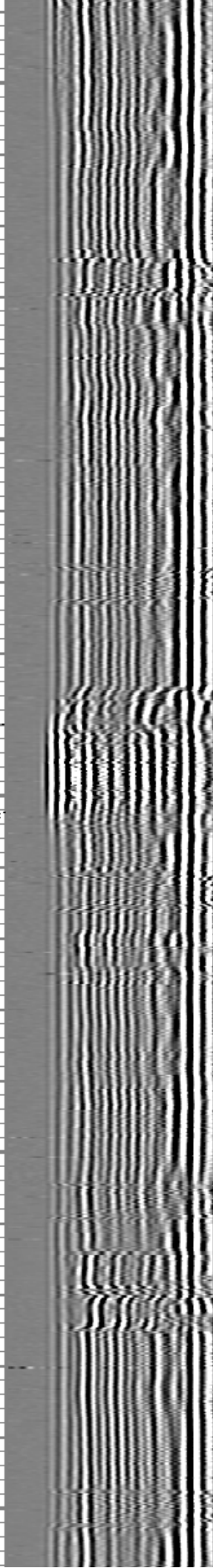
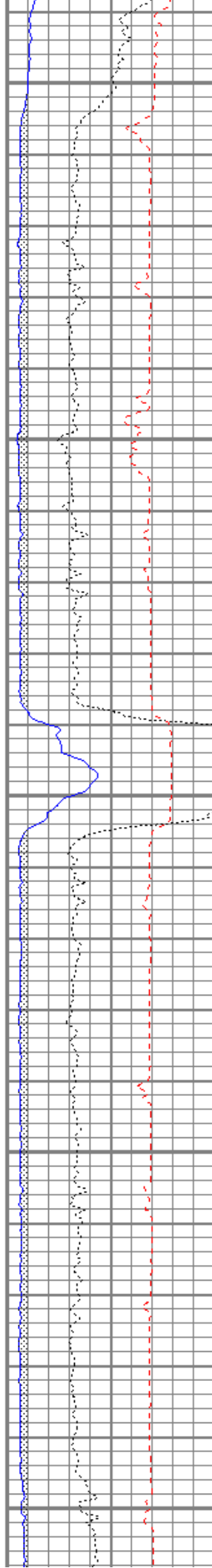


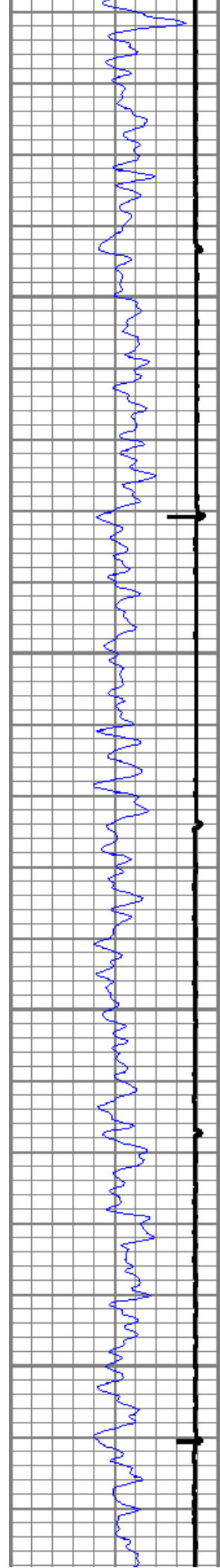




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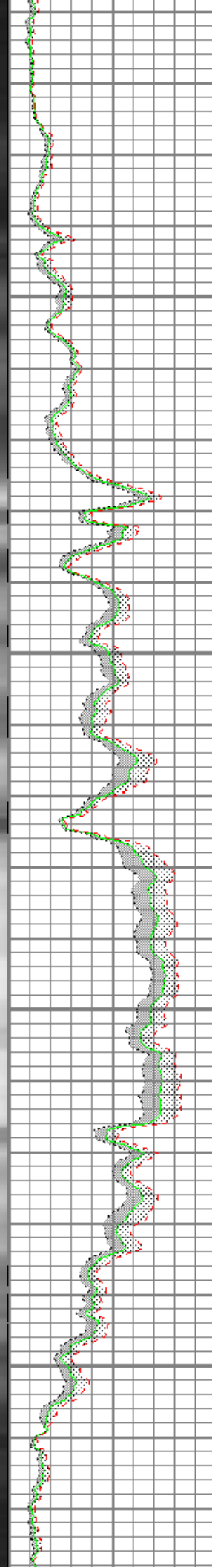
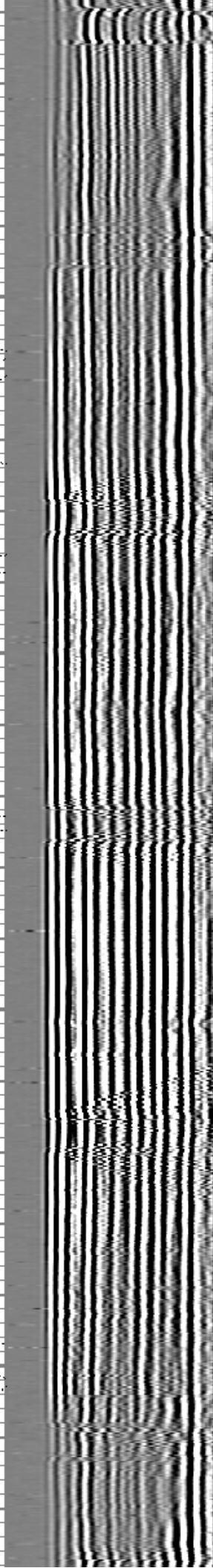
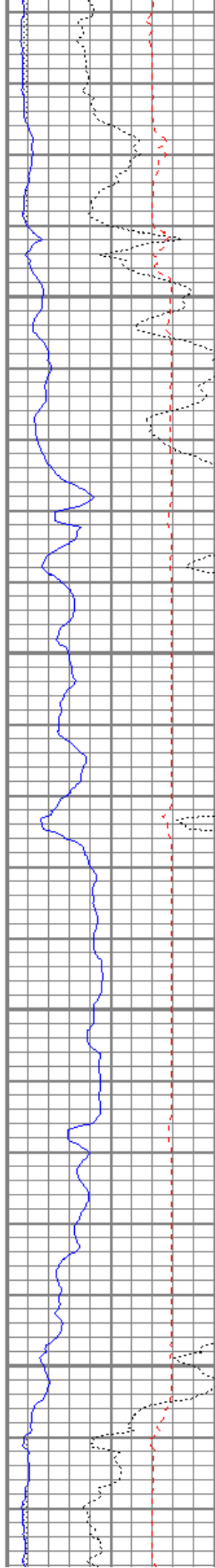
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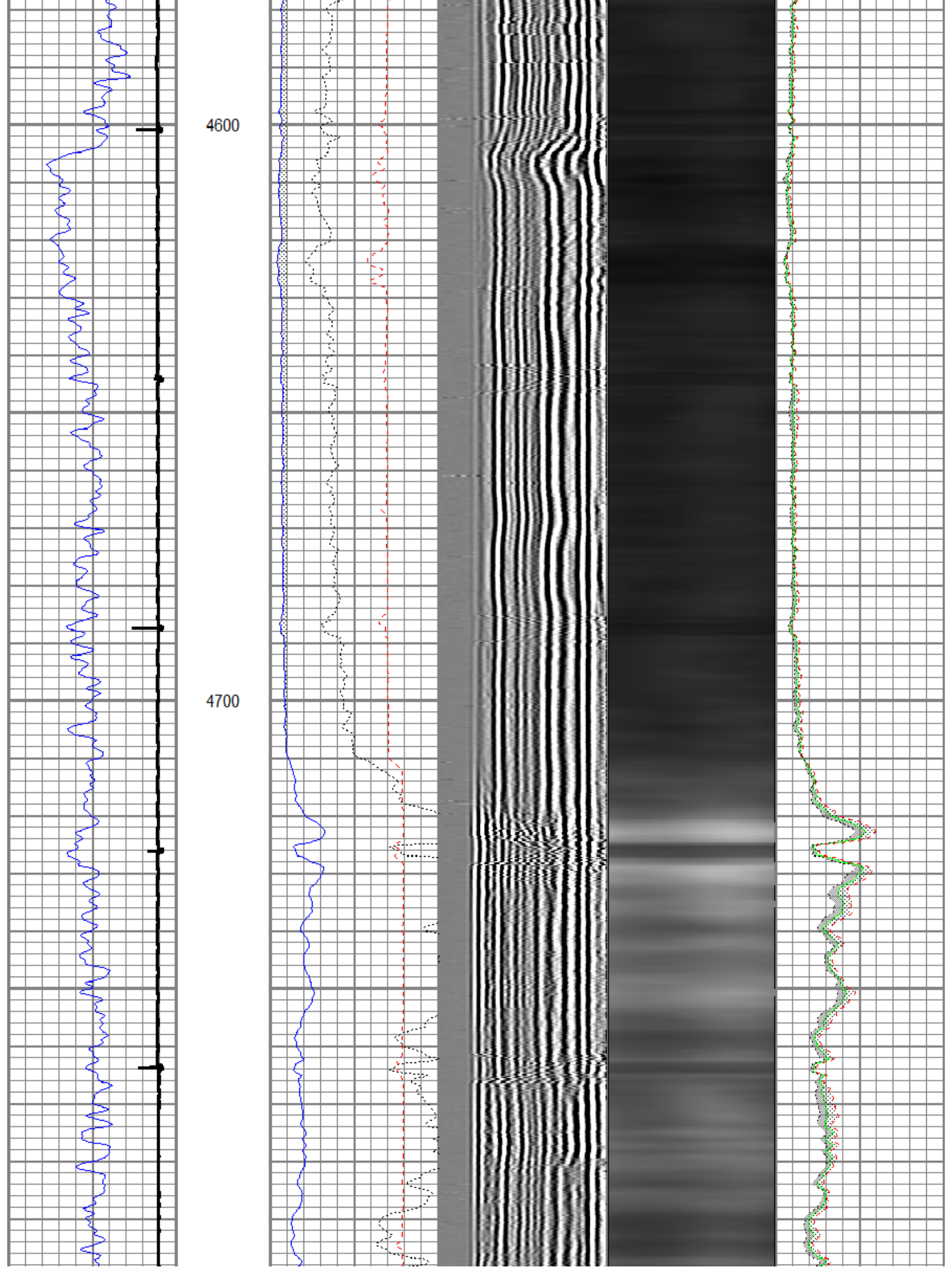


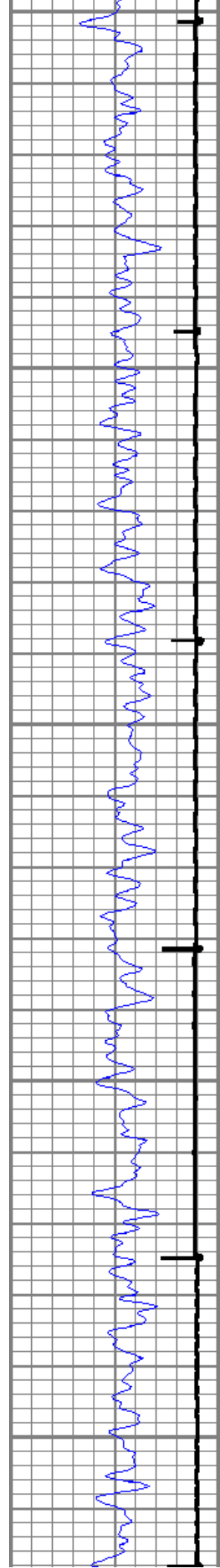


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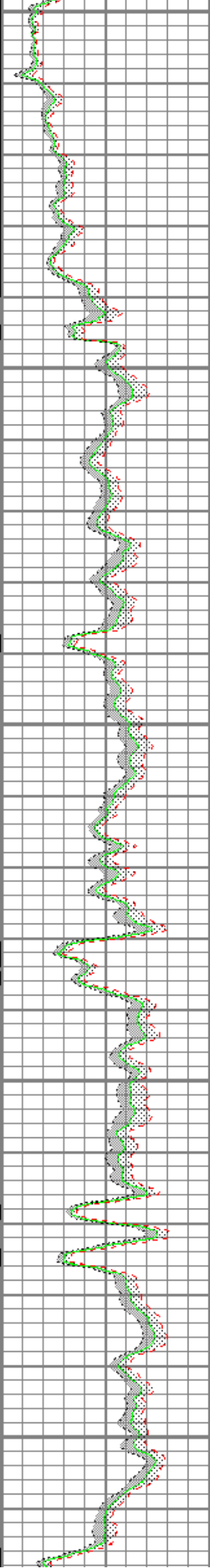
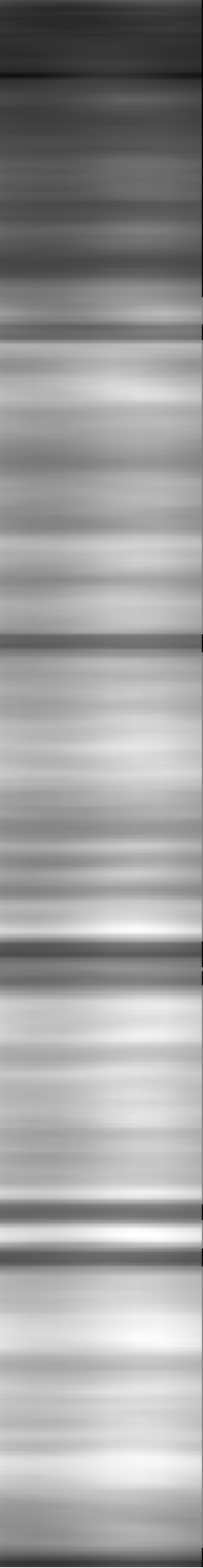
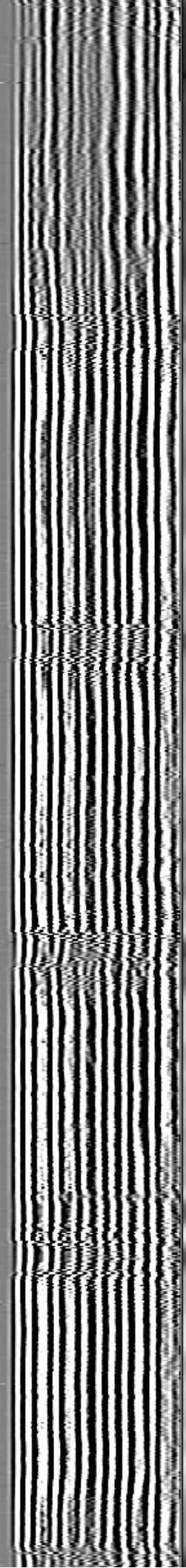
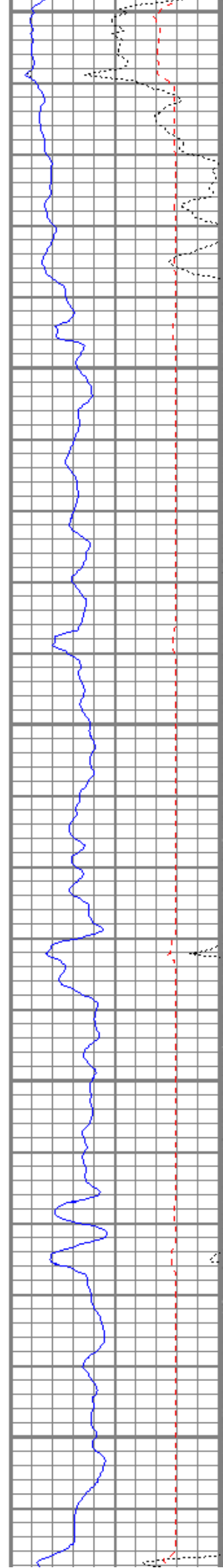


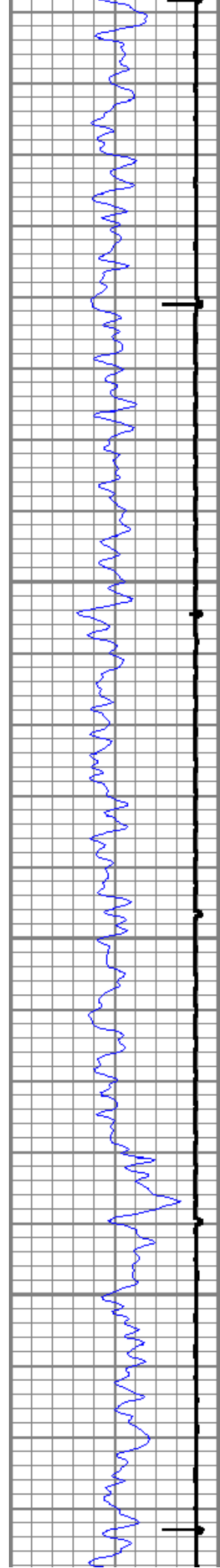


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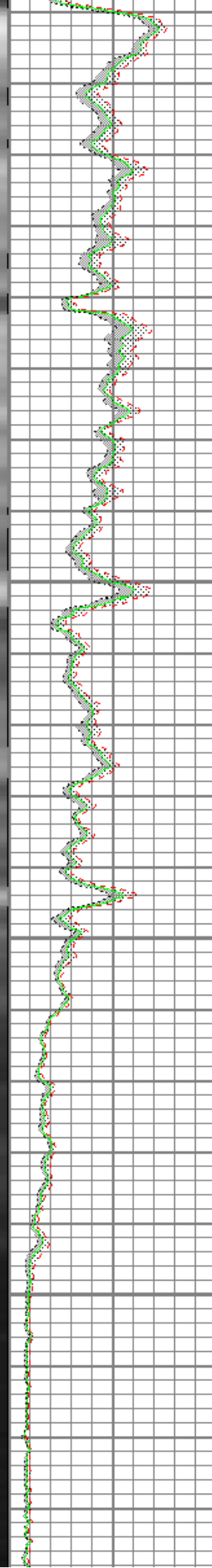
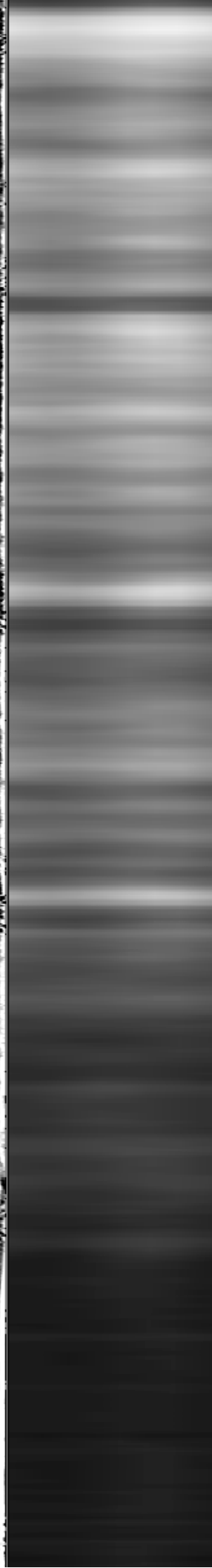
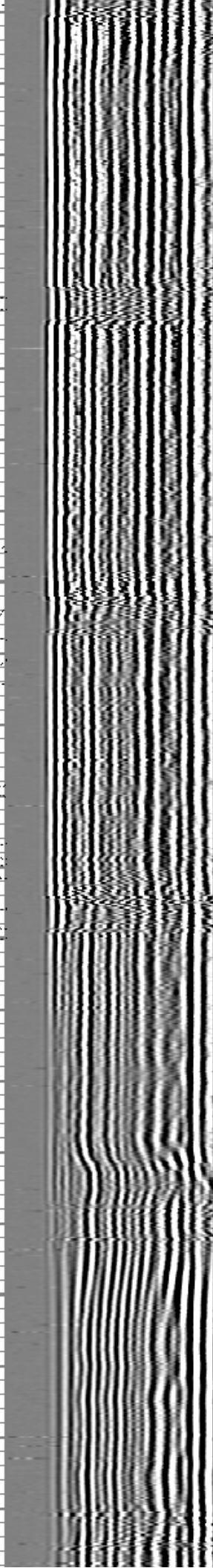
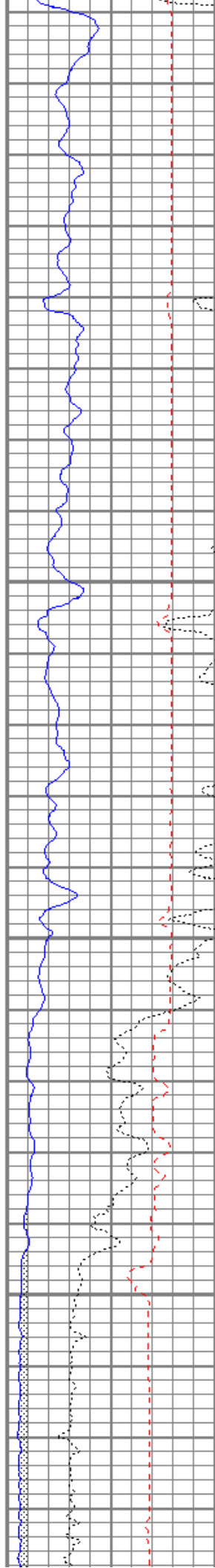
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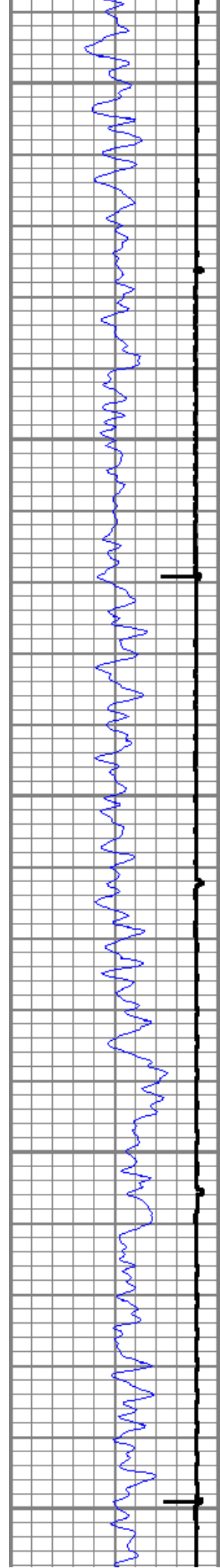




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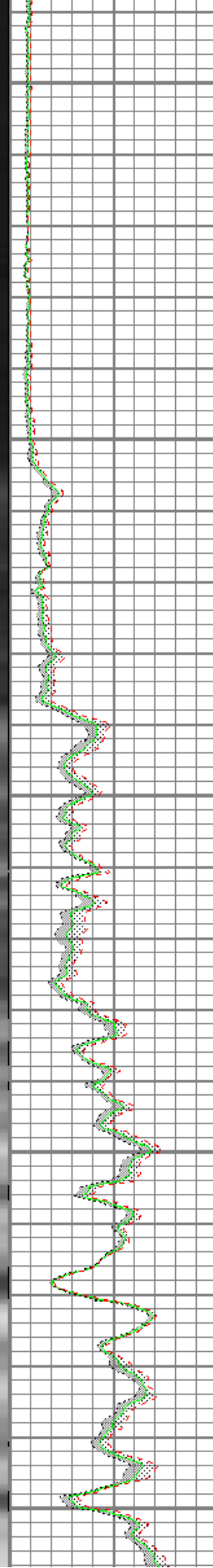
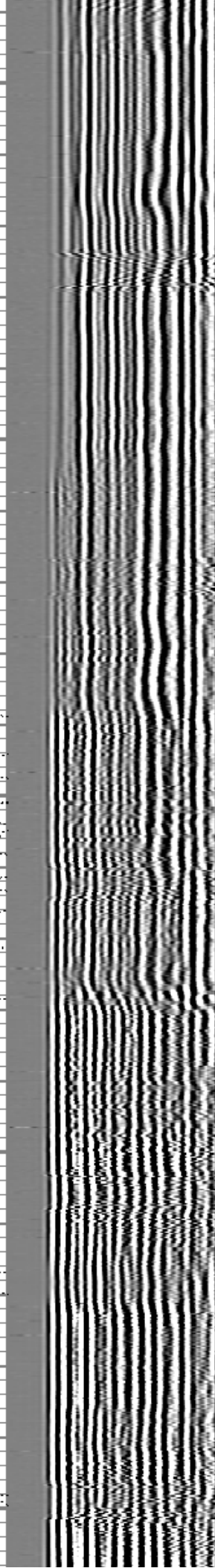
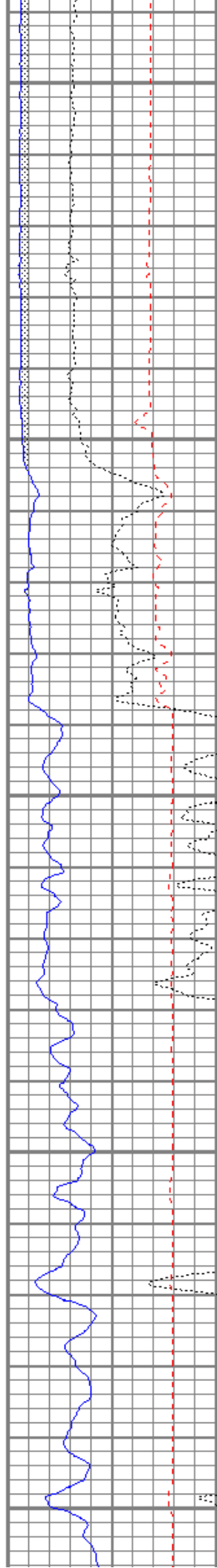
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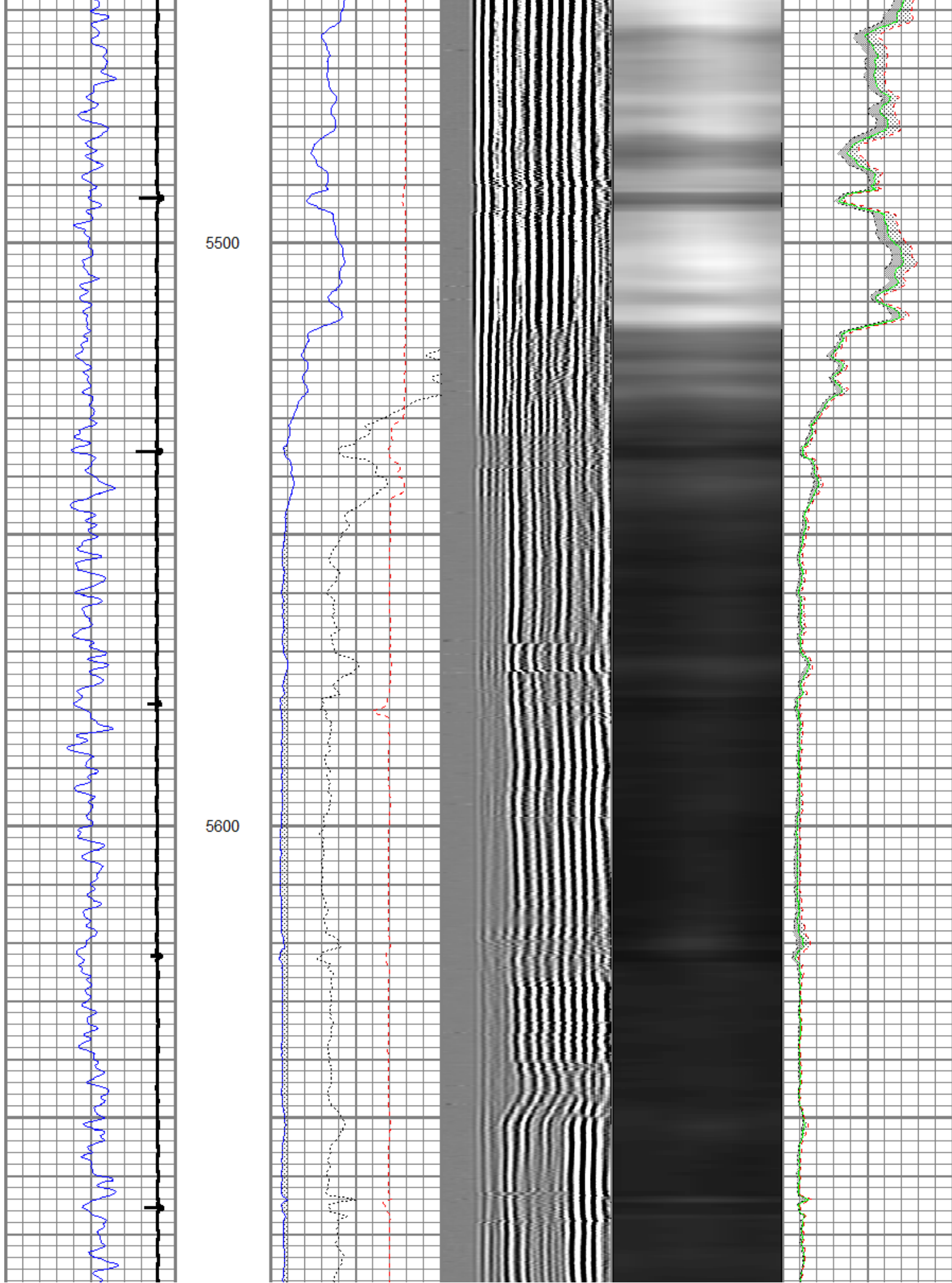


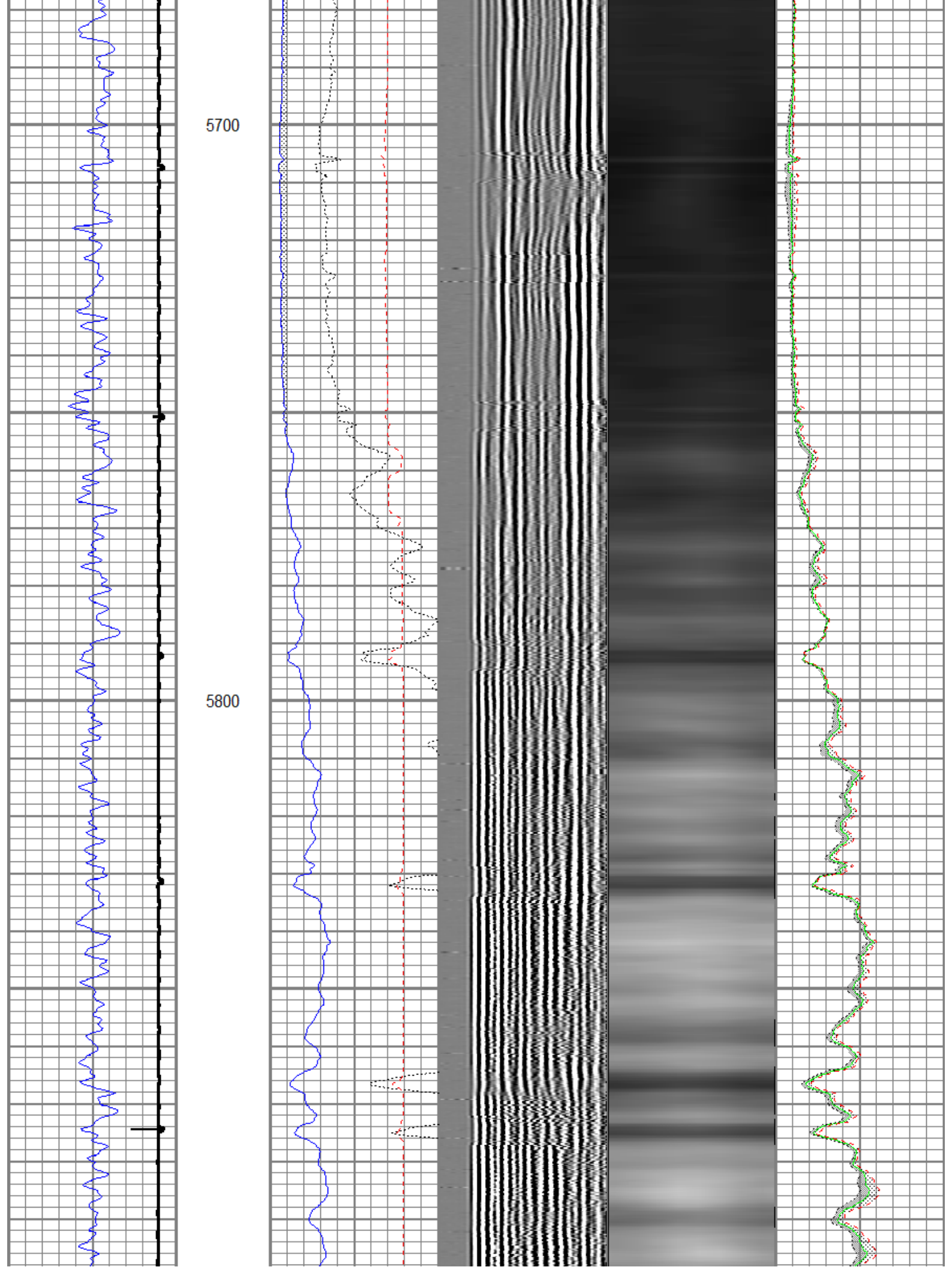


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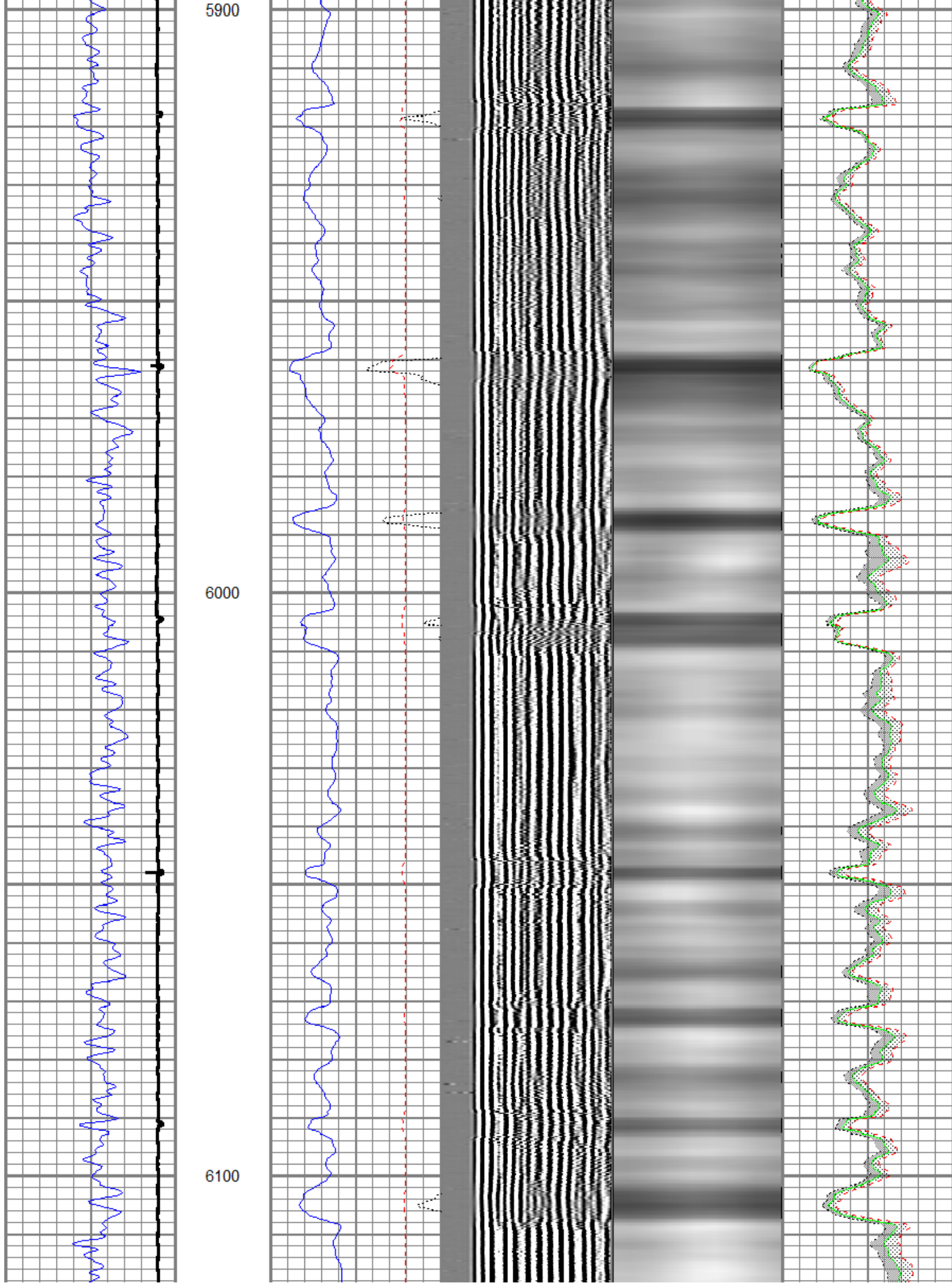


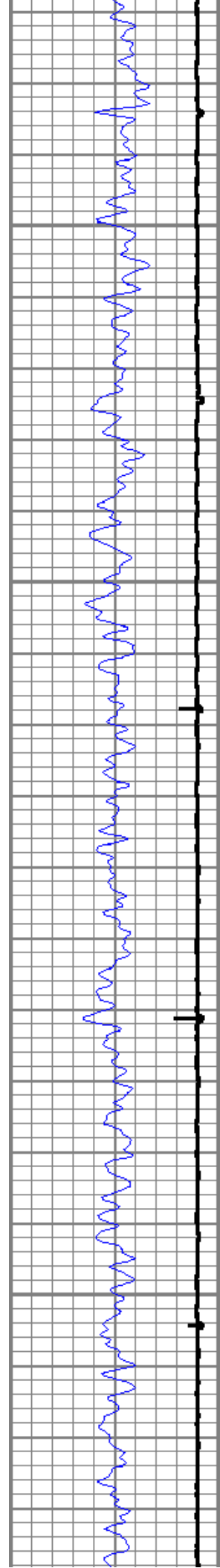


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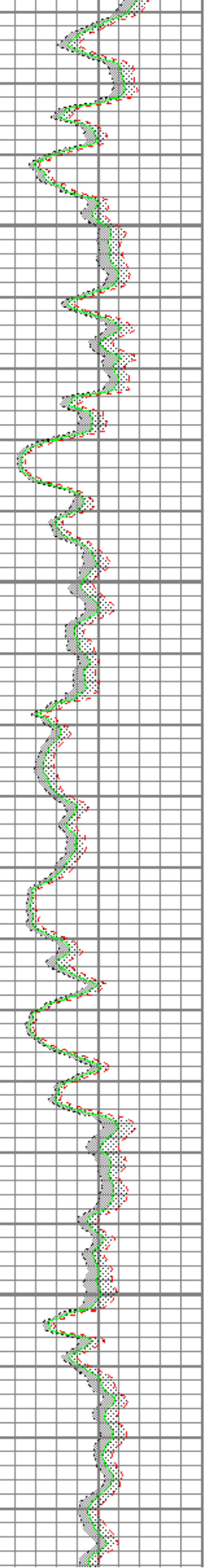
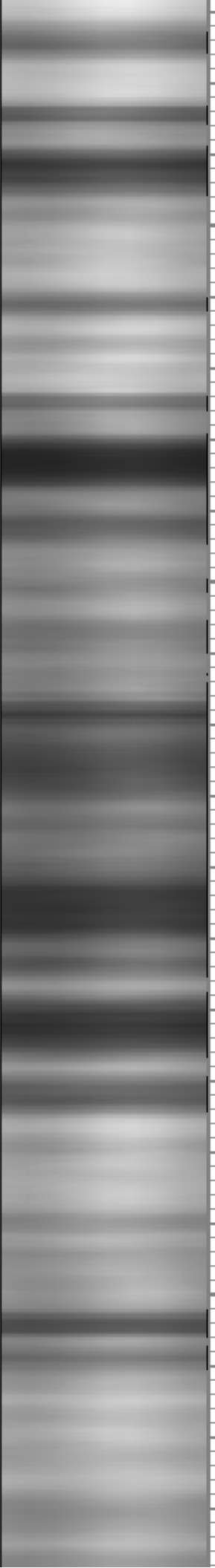
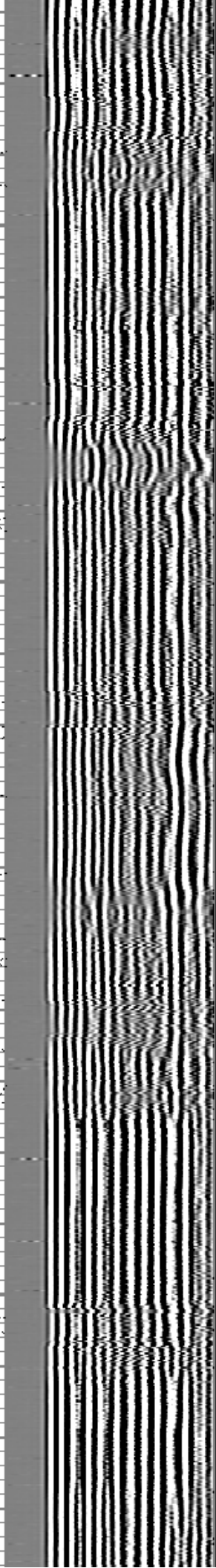
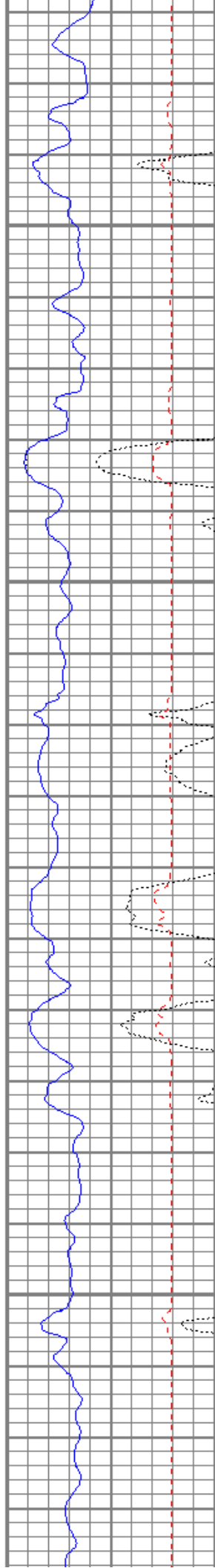
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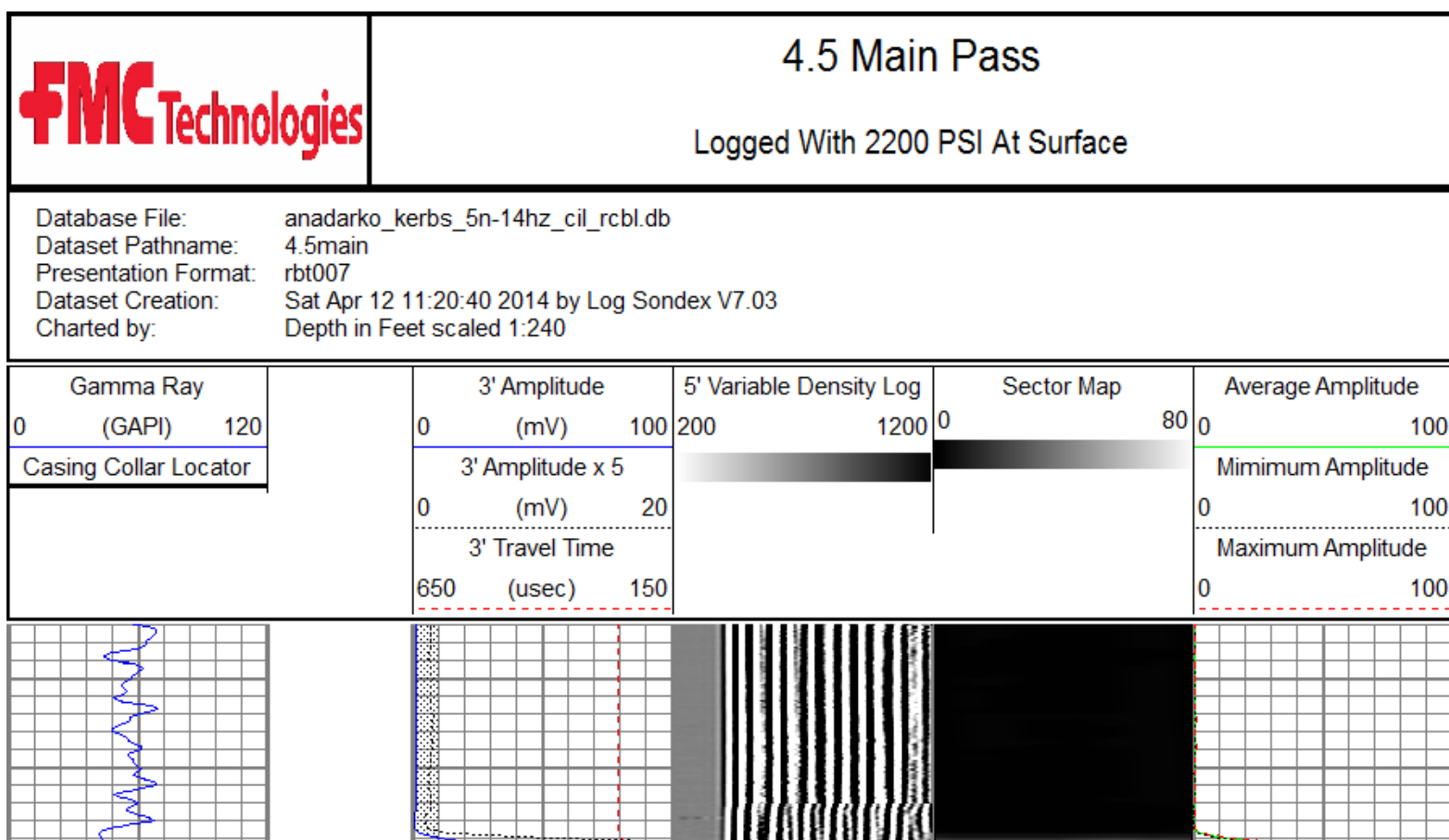
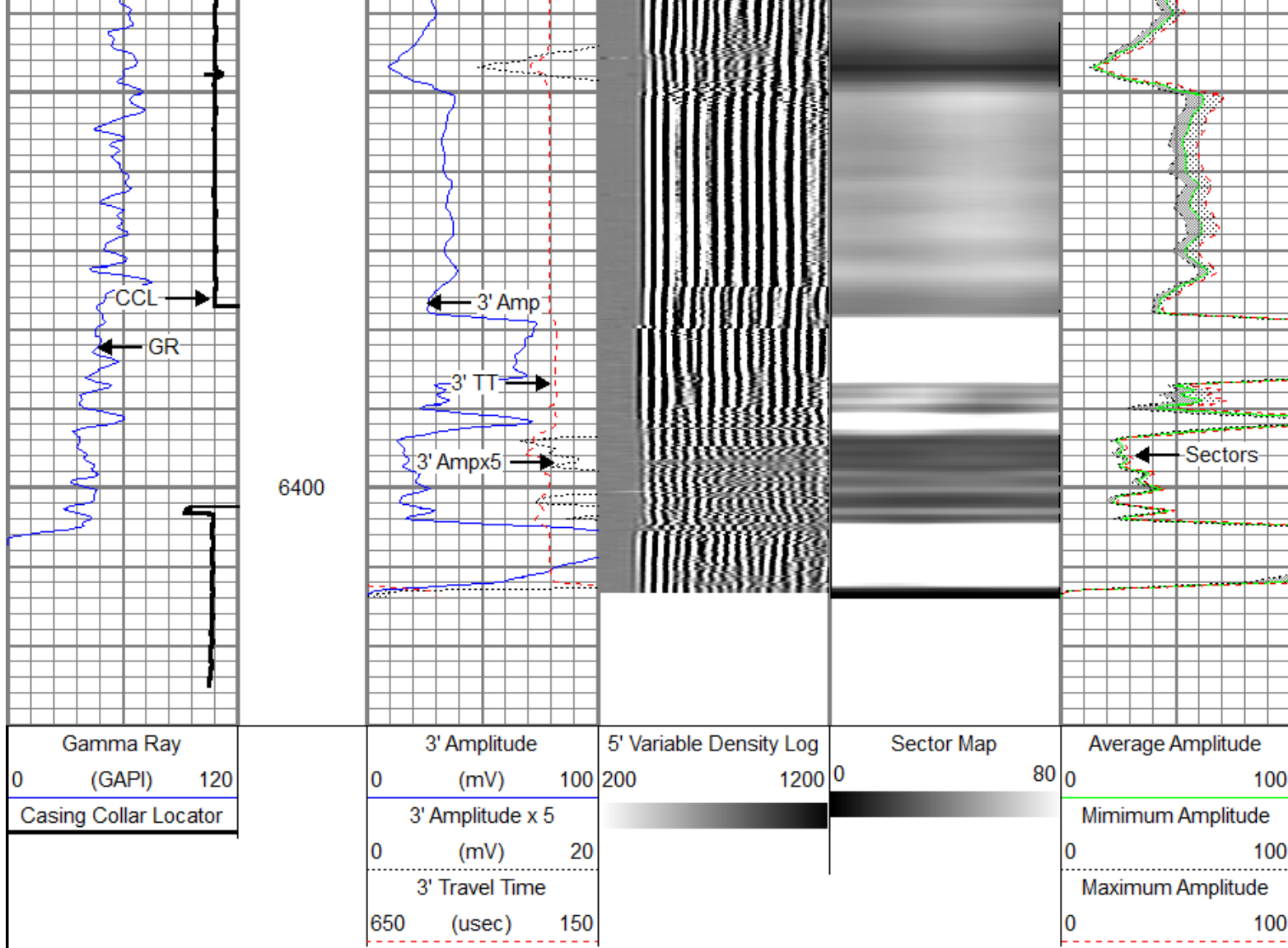


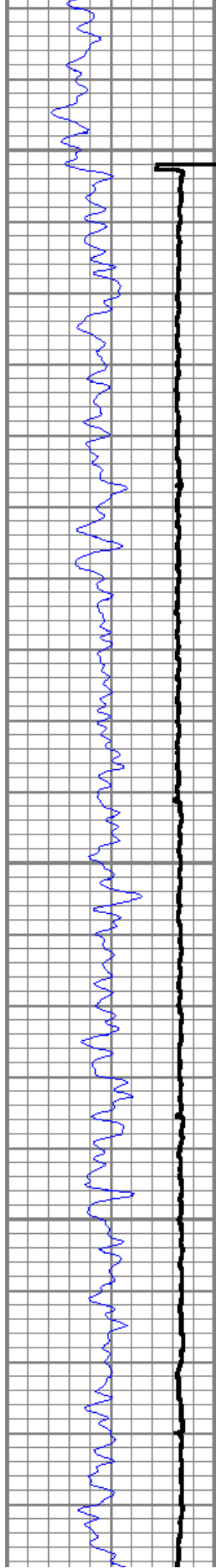


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6300

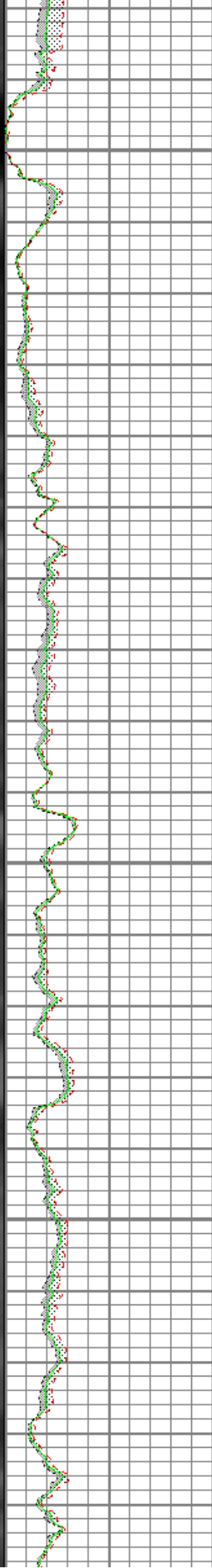
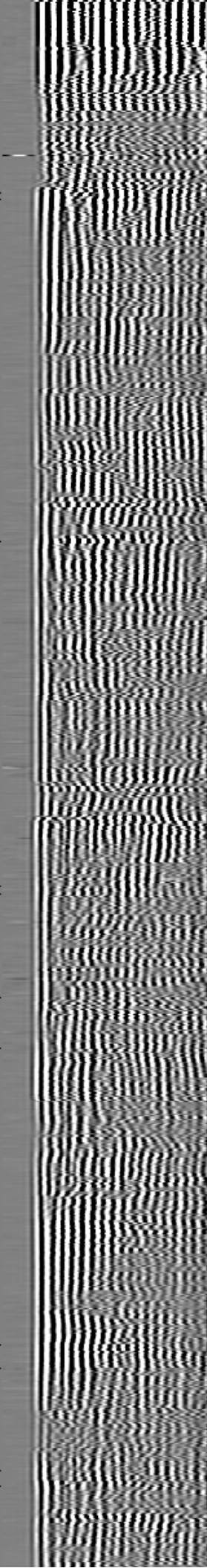
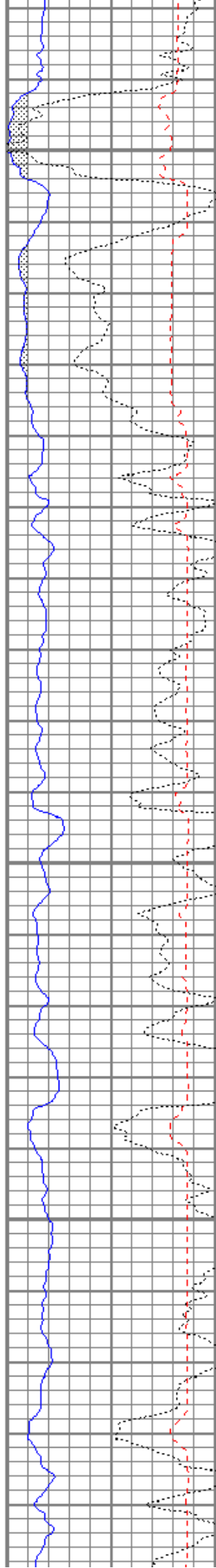






6400

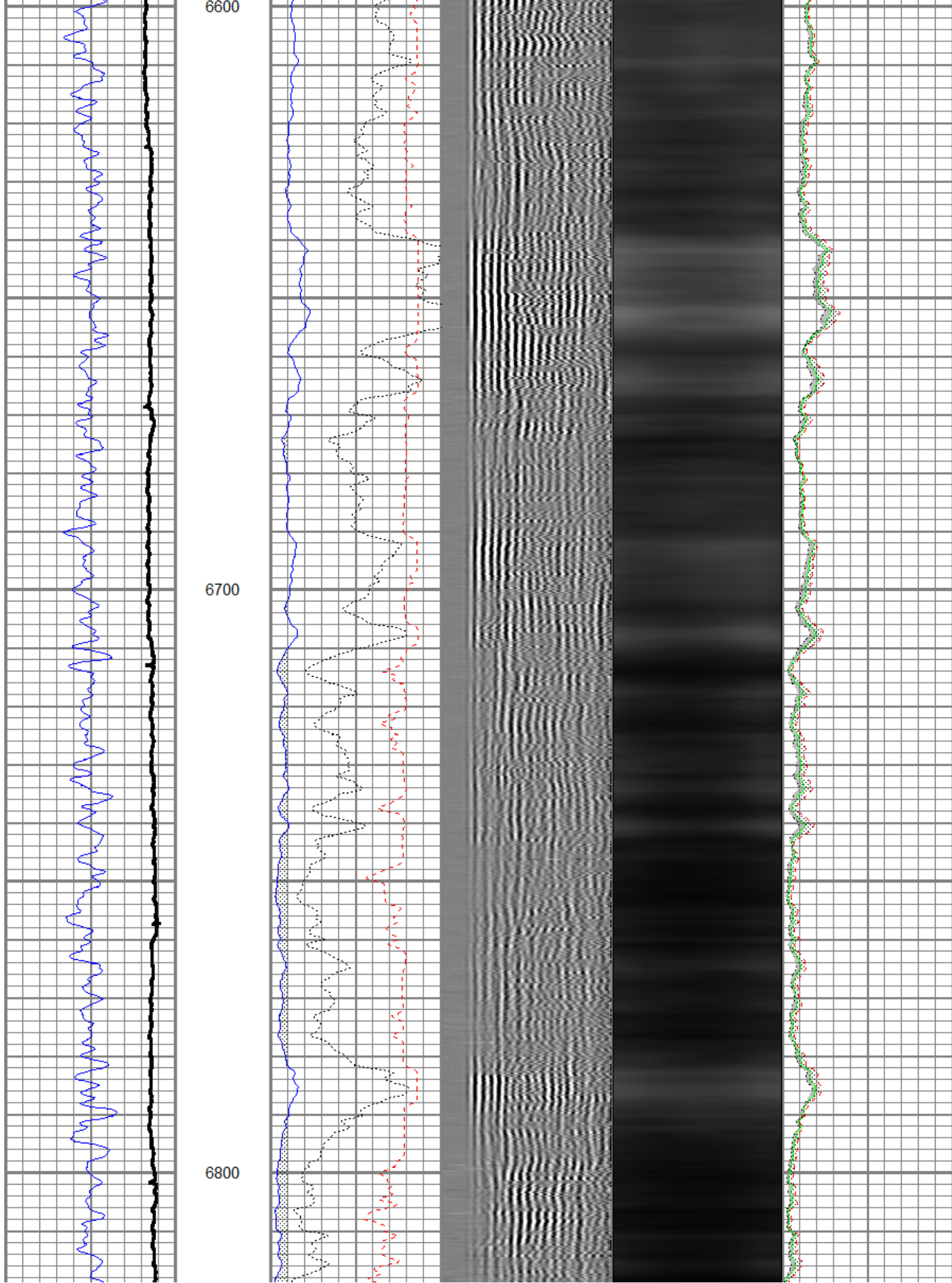
6500

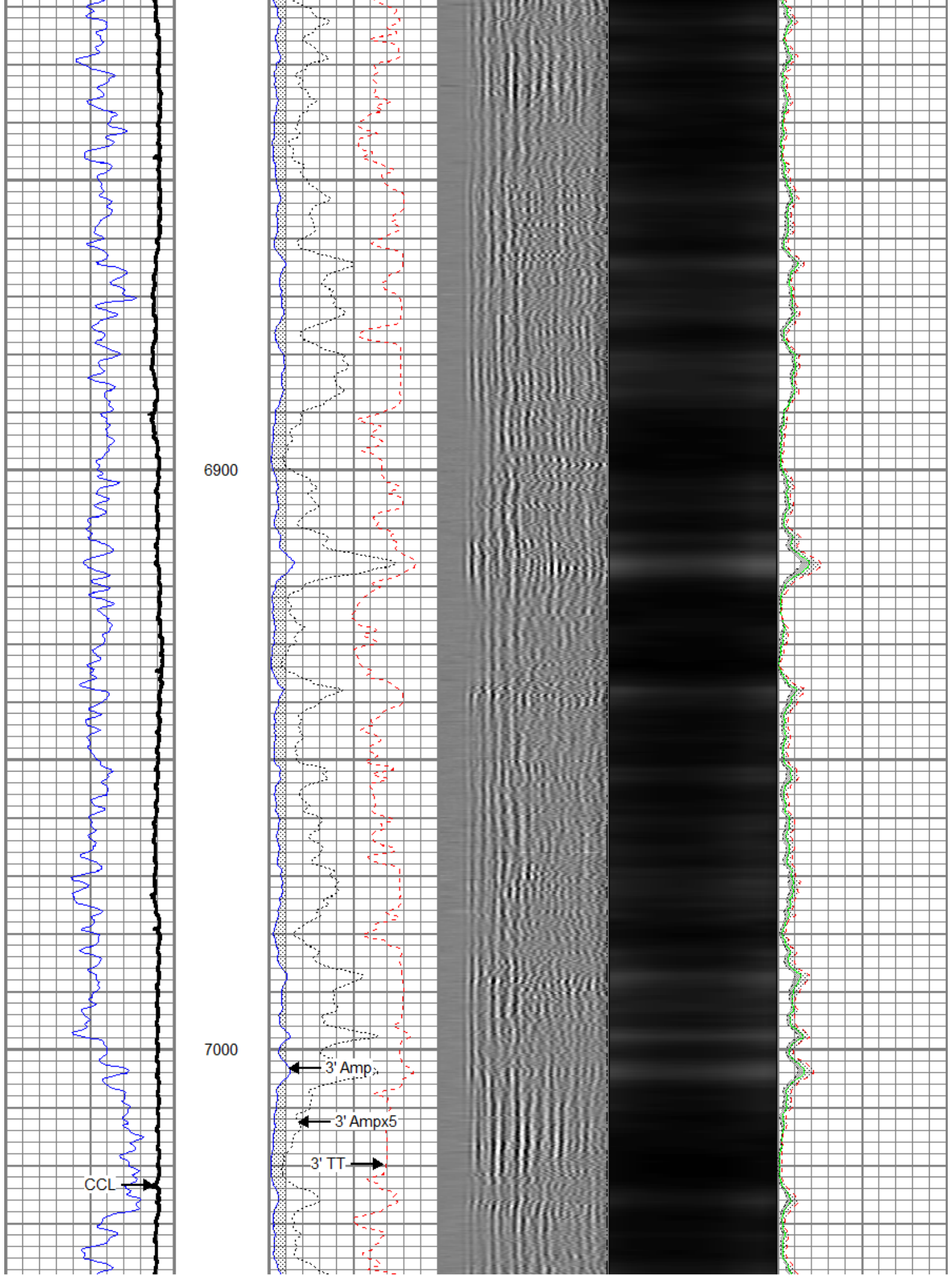


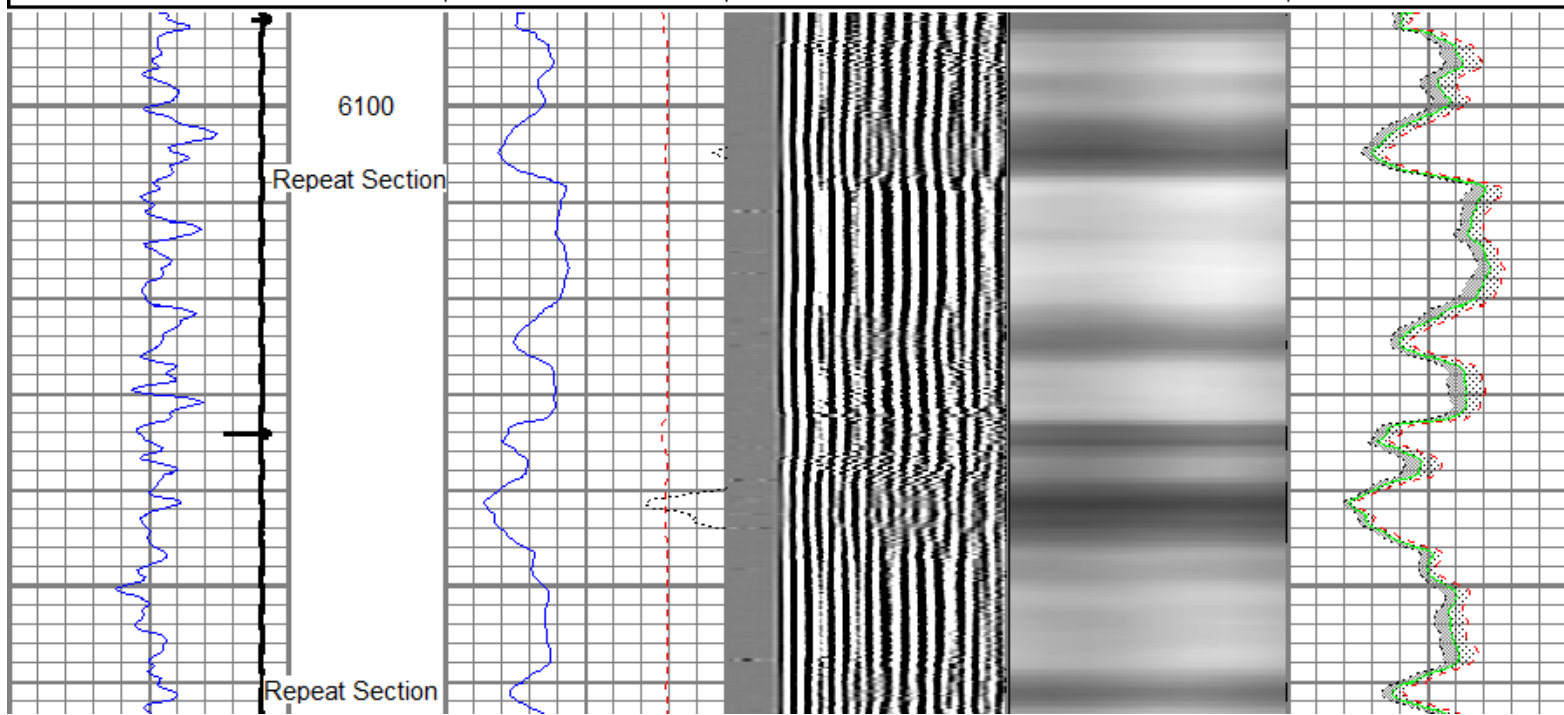
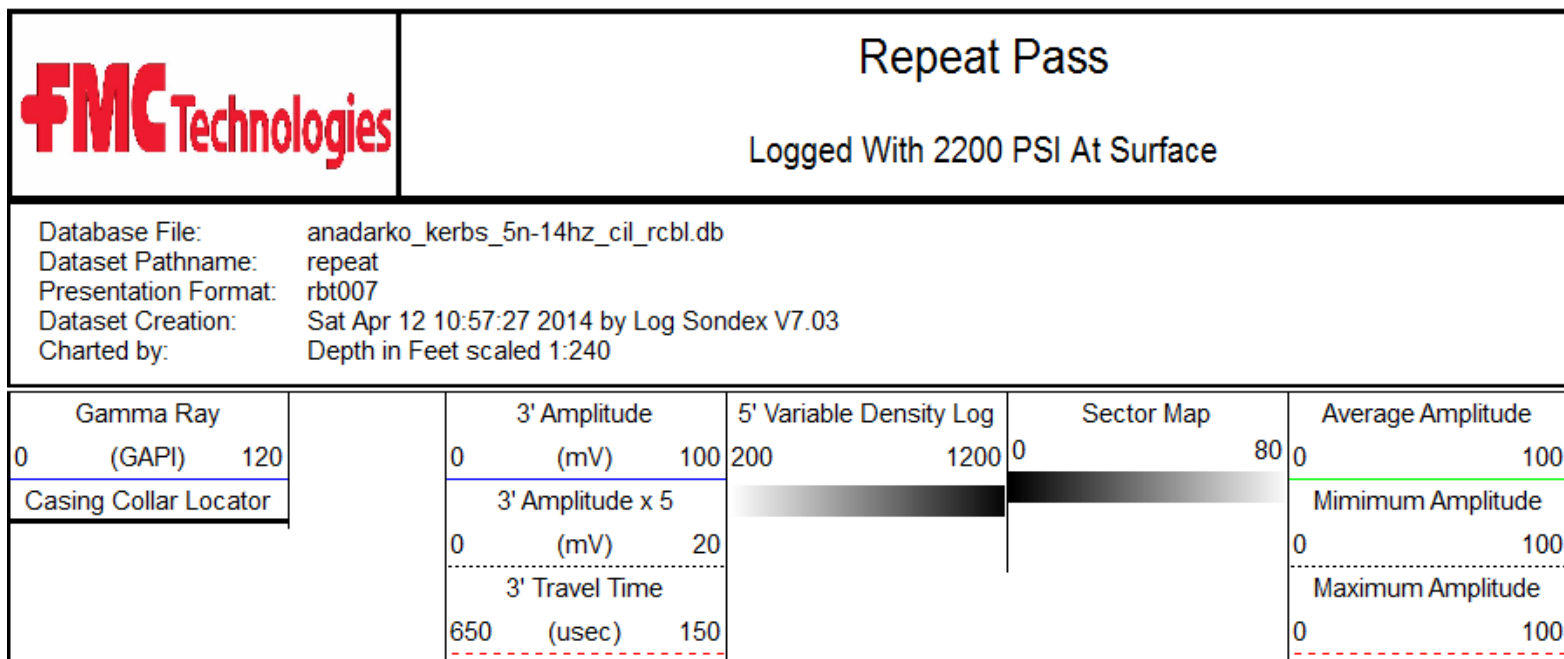
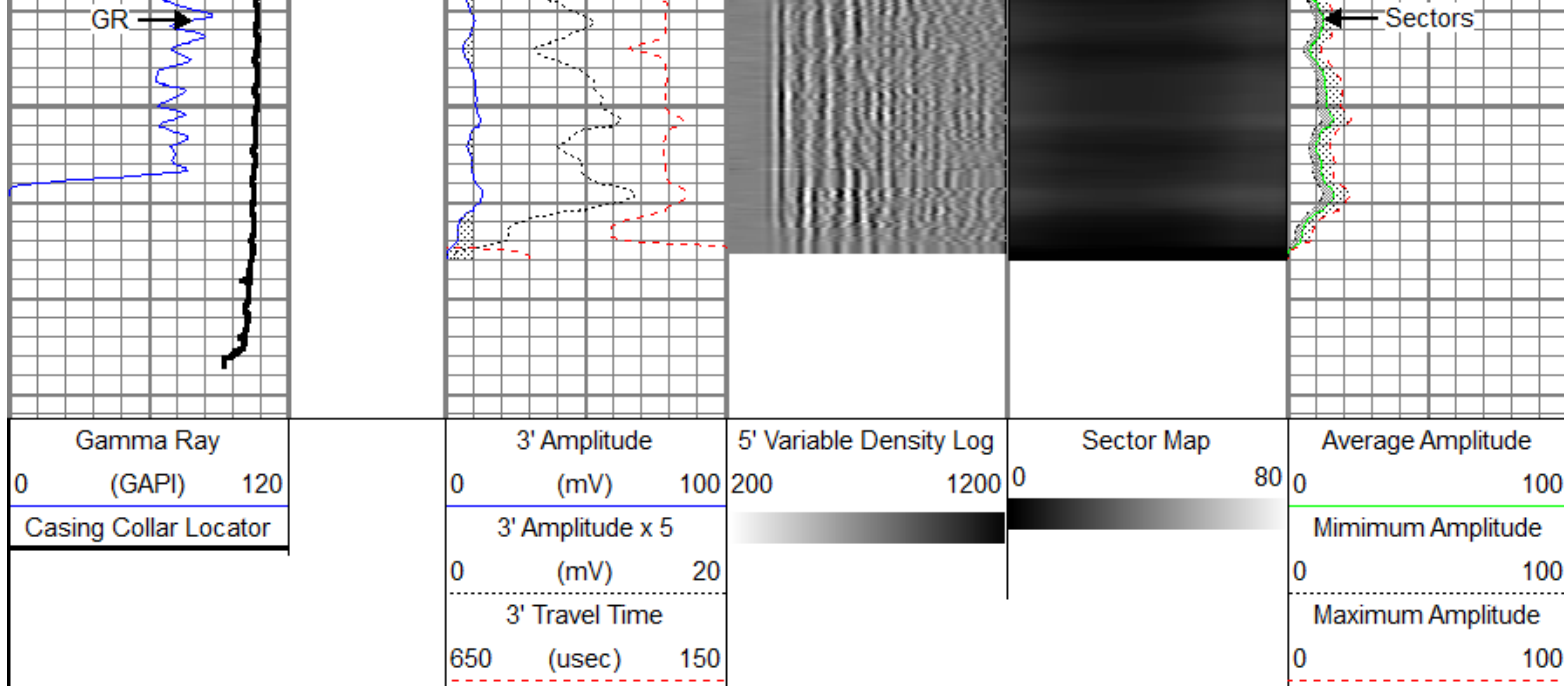
6600

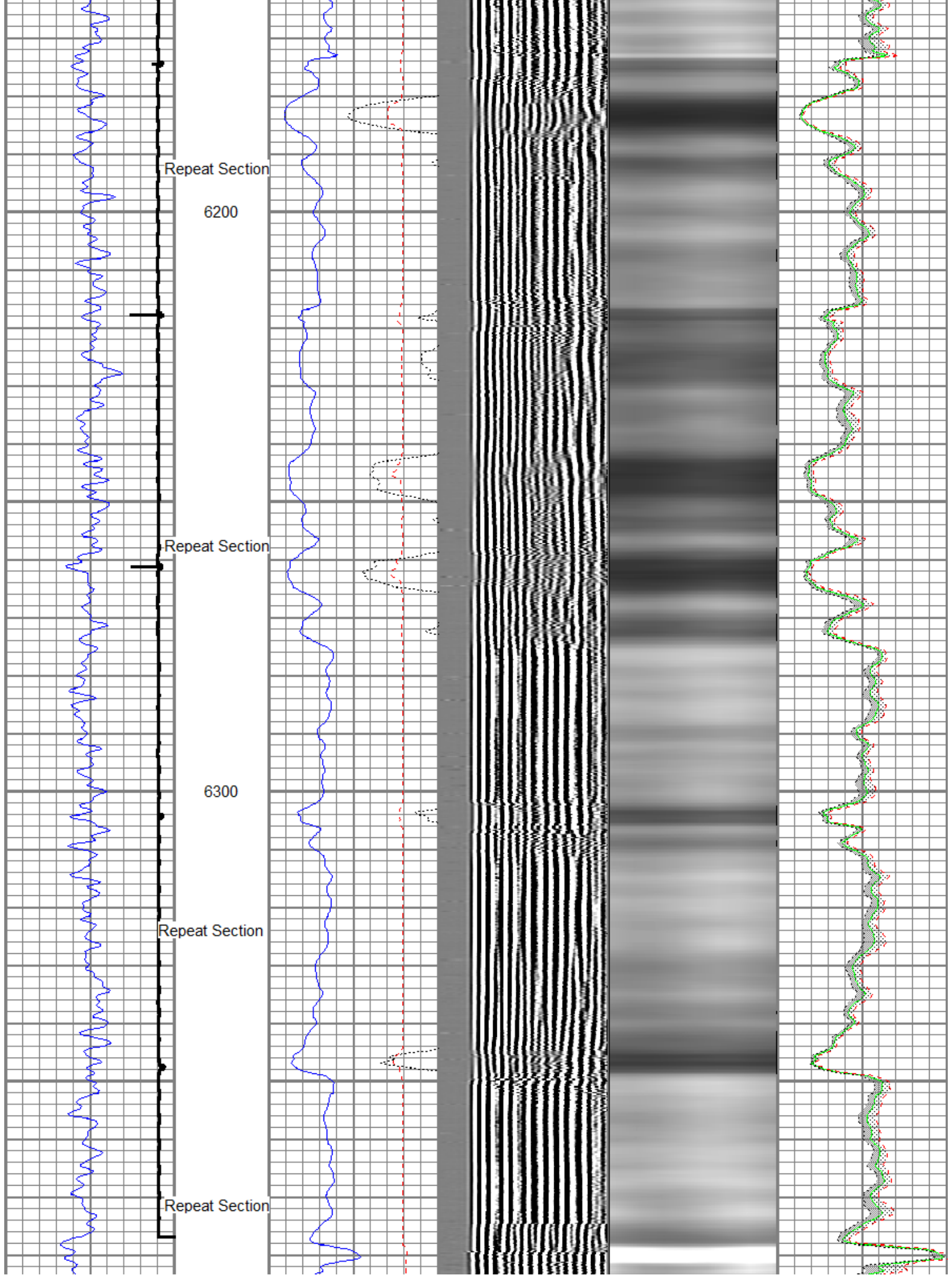
6700

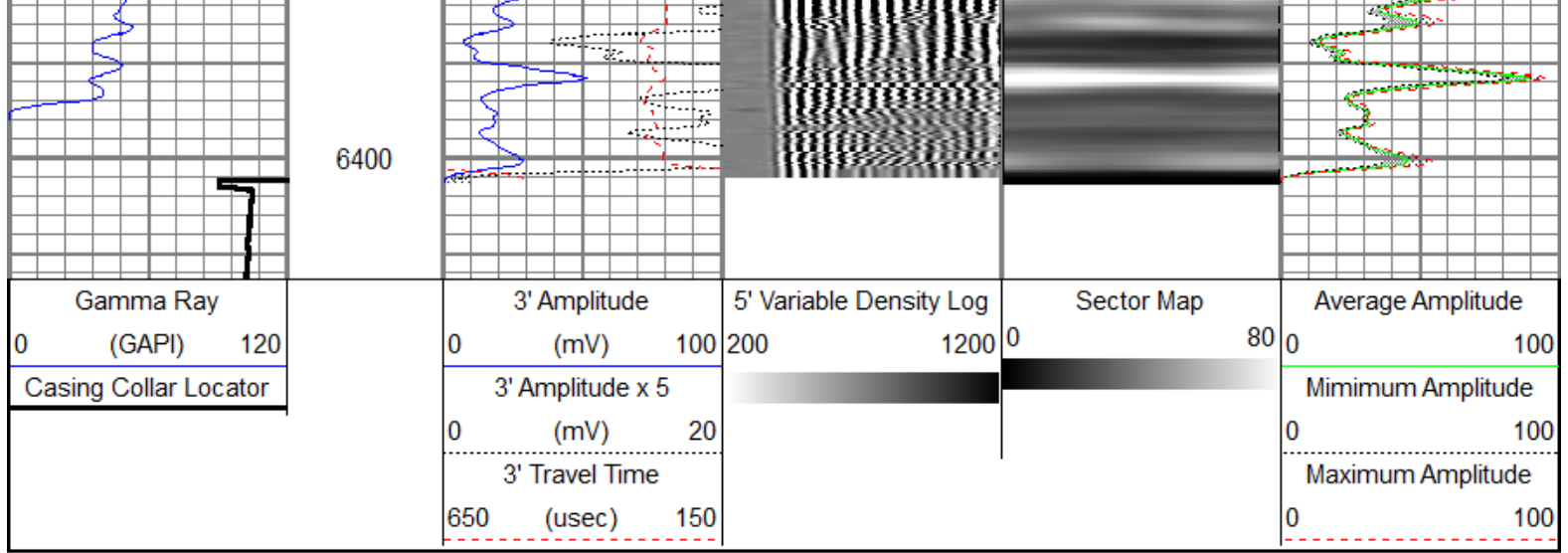
6800



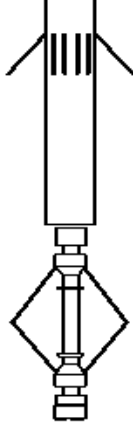








Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	24.88		CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (218874) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			PGR-020 (211727) Production Gamma Ray	1.93	1.69	9.50
			PRC-017 (000002) Production Roller Centraliser (3 Arm)	2.01	1.69	7.00
WVFS1	18.03		RBT-004 (10012639in7) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
WVFS2	18.03					
WVFS3	18.03					
WVFS4	18.03					
WVFS5	18.03					
WVFS6	18.03					
WVFS7	18.03					
WVFS8	18.03					
CBLTEMP	18.03					
CBLROT	18.03					
WVFS5FT	17.03					
			PRC-001 (10) Production Roller Centraliser (3 Arm)	1.92	1.69	7.00
			PKJ-013 (000001) Production Knuckle Joint	0.57	1.69	3.50
			PRC-034 (000006) Production Roller Centraliser (4 Arm)	2.91	1.69	13.00

MIT	5.17		MIT-042 (10014703notemp) 40 Multifinger Imaging Tool	4.54	2.75	61.10
			PRC-057 (000007) Production Roller Centraliser (4 Arm)	2.74	2.75	32.00
			BUL-006 (000002) Bullnose Terminator	0.22	1.69	1.20
			Dataset: anadarko_kerbs_5n-14hz_cil_rcbl.db: field/well/run1/7main1 Total Length: 28.92 ft Total Weight: 282.80 lb O.D.: 3.13 in			

Calibration Report			
Database File:	anadarko_kerbs_5n-14hz_cil_rcbl.db		
Dataset Pathname:	postcal		
Dataset Creation:	Sat Apr 12 14:34:38 2014 by Log Sondex V7.03		
Multi-finger Imaging Tool Calibration Report			
Serial Number:		10014703notemp	
Number of Fingers:		40	
Tool Model:		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:		Sat Apr 12 09:34:14 2014		
Ring size:	4	5	6	7		
(in)						
	Sens	Sens	Sens			
Finger 01:	1120 361.0	1481 374.0	1855 352.0	2207		
Finger 02:	1078 376.0	1454 378.0	1832 372.0	2204		
Finger 03:	1080 372.0	1452 359.0	1811 362.0	2173		
Finger 04:	1041 388.0	1429 367.0	1796 388.0	2184		
Finger 05:	1073 377.0	1450 338.0	1788 361.0	2149		
Finger 06:	1064 396.0	1460 345.0	1805 382.0	2187		
Finger 07:	1077 398.0	1475 333.0	1808 381.0	2189		
Finger 08:	1034 405.0	1439 342.0	1781 405.0	2186		
Finger 09:	1092 410.0	1502 328.0	1830 387.0	2217		
Finger 10:	1059 409.0	1468 330.0	1798 407.0	2205		
Finger 11:	1026 408.0	1434 332.0	1766 418.0	2184		
Finger 12:	1103 406.0	1509 318.0	1827 392.0	2219		
Finger 13:	1035 400.0	1435 335.0	1770 431.0	2201		
Finger 14:	1011 414.0	1425 356.0	1781 455.0	2236		
Finger 15:	980 408.0	1388 364.0	1752 468.0	2220		
Finger 16:	1012 399.0	1411 361.0	1772 459.0	2231		
Finger 17:	1040 386.0	1426 361.0	1787 444.0	2231		
Finger 18:	1061 380.0	1441 369.0	1810 449.0	2259		
Finger 19:	1000 381.0	1404 360.0	1790 430.0	2255		

Finger 19:	1023	381.0	1404	389.0	1793	462.0	2255
Finger 20:	938	370.0	1308	406.0	1714	482.0	2196
Finger 21:	1028	361.0	1389	399.0	1788	461.0	2249
Finger 22:	1002	361.0	1363	415.0	1778	470.0	2248
Finger 23:	1112	336.0	1448	397.0	1845	427.0	2272
Finger 24:	1017	350.0	1367	439.0	1806	464.0	2270
Finger 25:	1022	339.0	1361	441.0	1802	462.0	2264
Finger 26:	1052	335.0	1387	438.0	1825	439.0	2264
Finger 27:	1070	321.0	1391	434.0	1825	436.0	2261
Finger 28:	1032	326.0	1358	456.0	1814	442.0	2256
Finger 29:	1013	328.0	1341	465.0	1806	447.0	2253
Finger 30:	1011	320.0	1331	464.0	1795	437.0	2232
Finger 31:	1075	321.0	1396	443.0	1839	405.0	2244
Finger 32:	1022	321.0	1343	454.0	1797	413.0	2210
Finger 33:	1042	326.0	1368	451.0	1819	404.0	2223
Finger 34:	1042	327.0	1369	454.0	1823	403.0	2226
Finger 35:	1106	321.0	1427	421.0	1848	370.0	2218
Finger 36:	1045	331.0	1376	433.0	1809	386.0	2195
Finger 37:	1160	327.0	1487	398.0	1885	352.0	2237
Finger 38:	1116	335.0	1451	401.0	1852	360.0	2212
Finger 39:	1072	349.0	1421	402.0	1823	372.0	2195
Finger 40:	1012	363.0	1375	412.0	1787	387.0	2174

Post Survey Calibration Check

Performed:

Sat Apr 12 14:34:21 2014

Ring size: (in)	4	Nom. wear	5	Nom. wear	6	Nom. wear	7	Nom. wear
Finger 01:	3.960	-0.020	5.025	0.012	6.015	0.008	7.025	0.012
Finger 02:	3.956	-0.022	5.016	0.008	6.016	0.008	7.018	0.009
Finger 03:	3.955	-0.023	5.021	0.011	6.019	0.009	7.027	0.014
Finger 04:	3.950	-0.025	5.013	0.006	6.015	0.008	7.021	0.010
Finger 05:	3.960	-0.020	5.026	0.013	6.023	0.012	7.035	0.018
Finger 06:	3.960	-0.020	5.023	0.011	6.021	0.010	7.030	0.015
Finger 07:	3.950	-0.025	5.017	0.008	6.017	0.009	7.020	0.010
Finger 08:	3.957	-0.021	5.016	0.008	6.020	0.010	7.018	0.009
Finger 09:	3.958	-0.021	5.018	0.009	6.016	0.008	7.016	0.008
Finger 10:	3.959	-0.021	5.013	0.007	6.019	0.009	7.006	0.003
Finger 11:	3.961	-0.019	5.014	0.007	6.020	0.010	7.019	0.010
Finger 12:	3.961	-0.020	5.016	0.008	6.022	0.011	7.016	0.008
Finger 13:	3.956	-0.022	5.001	0.000	6.021	0.011	7.020	0.010
Finger 14:	3.959	-0.020	5.015	0.008	6.014	0.007	7.011	0.005
Finger 15:	3.960	-0.020	5.013	0.007	6.013	0.007	7.012	0.006
Finger 16:	3.958	-0.021	5.015	0.008	6.017	0.008	7.012	0.006
Finger 17:	3.951	-0.024	5.016	0.008	6.013	0.006	7.015	0.007
Finger 18:	3.951	-0.024	5.017	0.008	6.018	0.009	7.022	0.011
Finger 19:	3.955	-0.023	5.022	0.011	6.011	0.006	7.024	0.012
Finger 20:	3.951	-0.024	5.021	0.010	6.019	0.010	7.028	0.014
Finger 21:	3.960	-0.020	5.018	0.009	6.024	0.012	7.033	0.016
Finger 22:	3.959	-0.020	5.025	0.013	6.019	0.010	7.024	0.012
Finger 23:	3.955	-0.023	5.020	0.010	6.010	0.005	7.028	0.014
Finger 24:	3.956	-0.022	5.022	0.011	6.016	0.008	7.028	0.014
Finger 25:	3.957	-0.022	5.018	0.009	6.016	0.008	7.025	0.013
Finger 26:	3.953	-0.024	5.015	0.007	6.019	0.009	7.025	0.013
Finger 27:	3.959	-0.021	5.021	0.010	6.021	0.010	7.015	0.008
Finger 28:	3.957	-0.022	5.018	0.009	6.015	0.008	7.016	0.008
Finger 29:	3.959	-0.020	5.013	0.006	6.019	0.009	7.012	0.006
Finger 30:	3.956	-0.022	5.013	0.006	6.019	0.009	7.013	0.007
Finger 31:	3.957	-0.021	5.011	0.005	6.023	0.011	7.012	0.006
Finger 32:	3.959	-0.020	5.014	0.007	6.020	0.010	7.017	0.008
Finger 33:	3.962	-0.019	5.012	0.006	6.017	0.009	7.015	0.007
Finger 34:	3.958	-0.021	5.013	0.006	6.019	0.010	7.016	0.008
Finger 35:	3.954	-0.023	5.014	0.007	6.018	0.009	7.023	0.011
Finger 36:	3.961	-0.020	5.018	0.009	6.019	0.010	7.023	0.012
Finger 37:	3.956	-0.022	5.017	0.009	6.014	0.007	7.017	0.008
Finger 38:	3.950	-0.025	5.017	0.008	6.012	0.006	7.021	0.011
Finger 39:	3.957	-0.021	5.018	0.009	6.016	0.008	7.017	0.009
Finger 40:	3.953	-0.024	5.018	0.009	6.013	0.006	7.024	0.012
Average:	3.957	-0.022	5.017	0.008	6.017	0.009	7.020	0.010

Segmented Cement Bond Log Calibration Report

Serial Number: 10012639in7
 Tool Model: 004

Calibration Casing Diameter: 7.000 in
 Calibration Depth: 25.605 ft

Master Calibration, performed Sat Apr 12 09:36:45 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.001	0.707	0.800	62.165	86.937	0.694
5FT	-0.004	0.672	0.800	62.165	90.756	1.132
S1	0.001	0.681	0.000	100.000	147.174	-0.180
S2	-0.000	0.673	0.000	100.000	148.476	0.005
S3	0.000	0.687	0.000	100.000	145.465	0.000
S4	-0.001	0.707	0.000	100.000	141.242	0.183
S5	0.001	0.722	0.000	100.000	138.796	-0.205
S6	0.001	0.726	0.000	100.000	137.943	-0.086
S7	0.001	0.714	0.000	100.000	140.317	-0.161
S8	0.001	0.698	0.000	100.000	143.473	-0.126

Gamma Ray Calibration Report

Serial Number: 211727
 Tool Model: 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: Kerbs 5N-14HZ
 Field: Wattenberg
 County: Weld
 State: Colorado