



Radial Cement Bond Log

Company				Kerr-McGee Oil & Gas Onshore, L.P.				
Well				Paragon 25N-31HZ				
Field				Wattenberg				
County				Weld				
State				Colorado				
Location:				API # : 05-123-38549				
SHL: 260' FSL 1612' FEL Lat/Long: 40.073966/-104.702902 SEC 6 TWP 1N RGE 65W				Other Services GR Plug				
Permanent Datum		Ground Level		Elevation		4985'		
Log Measured From		Kelly Bushing		25 FT		K.B. 5010' D.F. 5009' G.L. 4985'		
Drilling Measured From		Kelly Bushing						
Date		22-FEB-2014						
Run Number		One						
Depth Driller		---						
Depth Logger		6710 FT						
Bottom Logged Interval		6710 FT						
Top Log Interval		Surface						
Open Hole Size		8.750"						
Type Fluid		Water						
Density / Viscosity		8.34 lbm/gal						
Max. Recorded Temp.		215 degF						
Estimated Cement Top		35 FT						
Time Well Ready		7.00						
Time Logger on Bottom		8:15 a.m.						
Equipment Number		HD-255						
Location		Fort Lupton, CO						
Recorded By		Wayne Wacker						
Witnessed By		Edgar Chavez						
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"	36#		Surface	1,152 FT		
Intermediate #1		7"	26#		Surface	7,671 FT		
Intermediate #2								
Liner		4-1/2"	11.6#		6671 FT	14,281 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 was correlated to liner top at 6671'
Logged With 2200 PSI at Surface

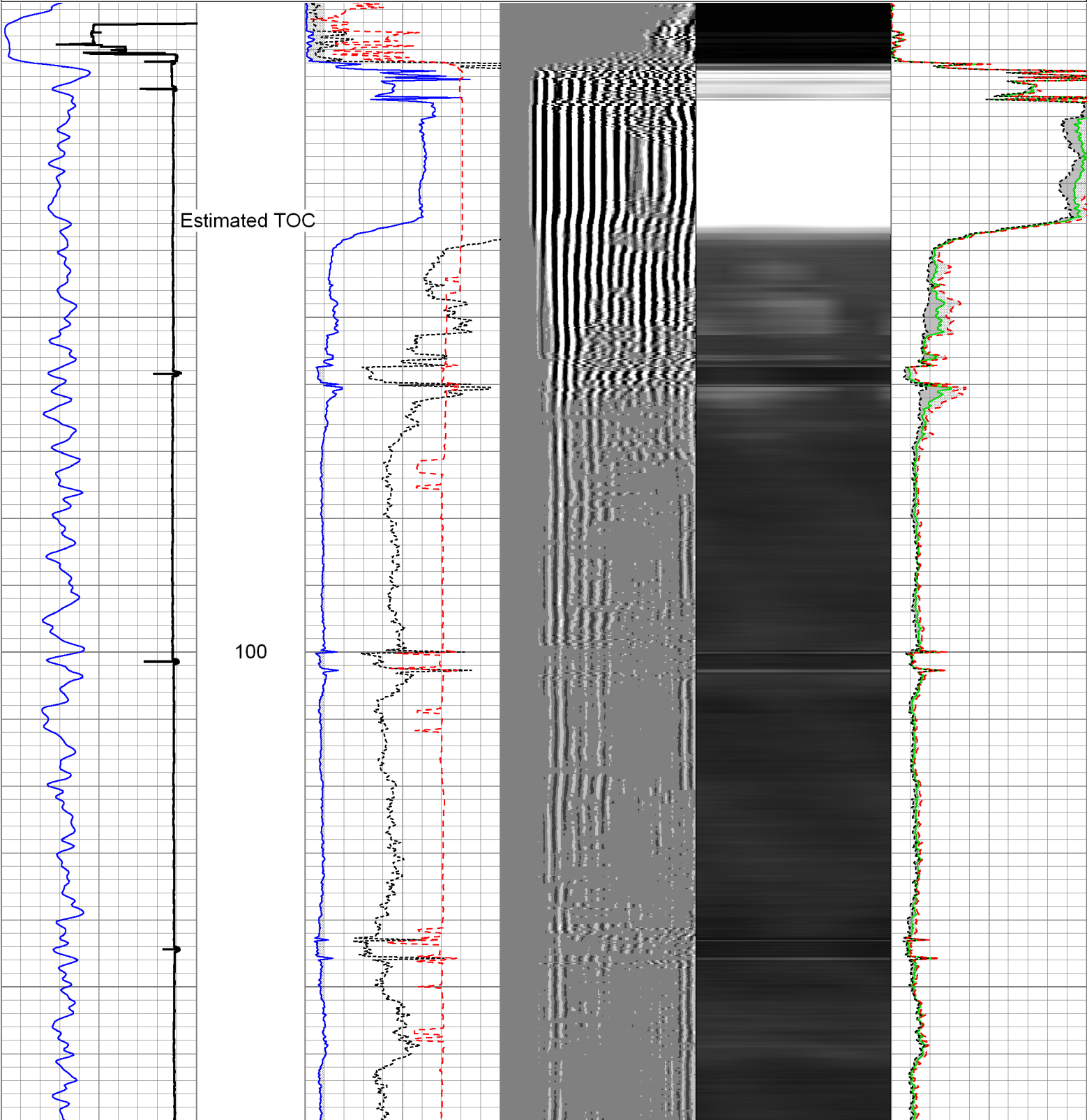
Thank you for choosing FMC Technologies Completion Services, Inc.

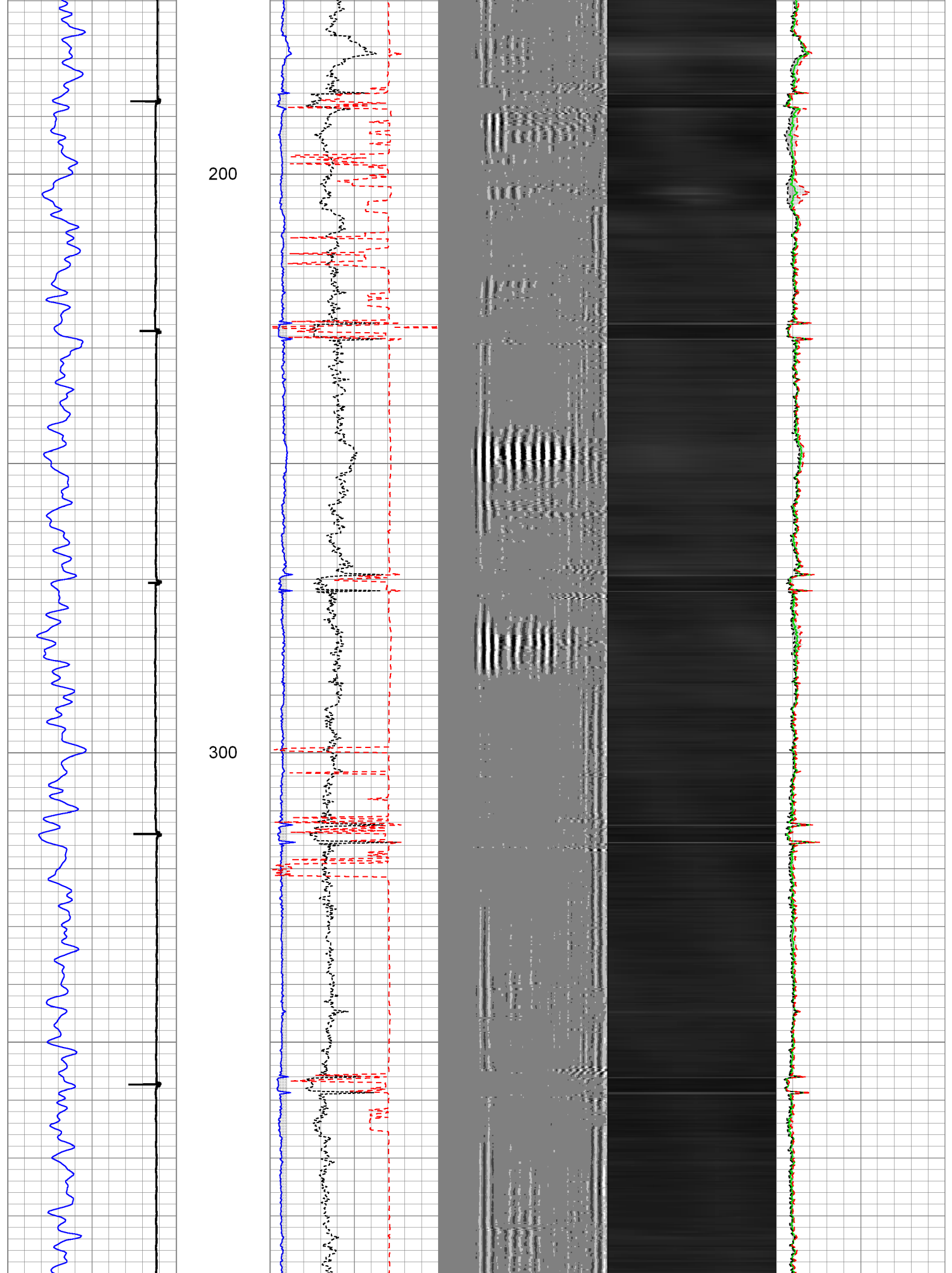


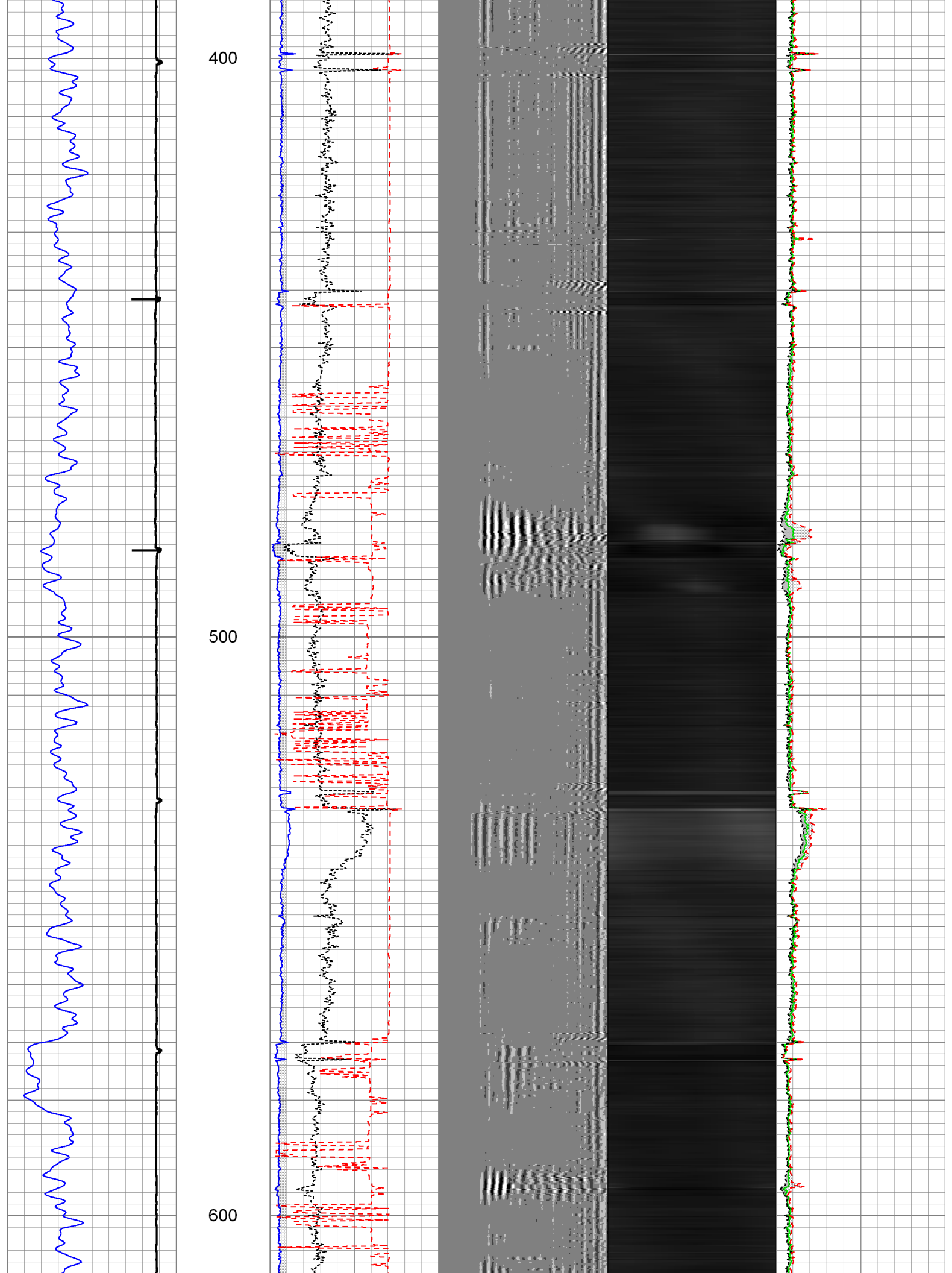
Main Pass

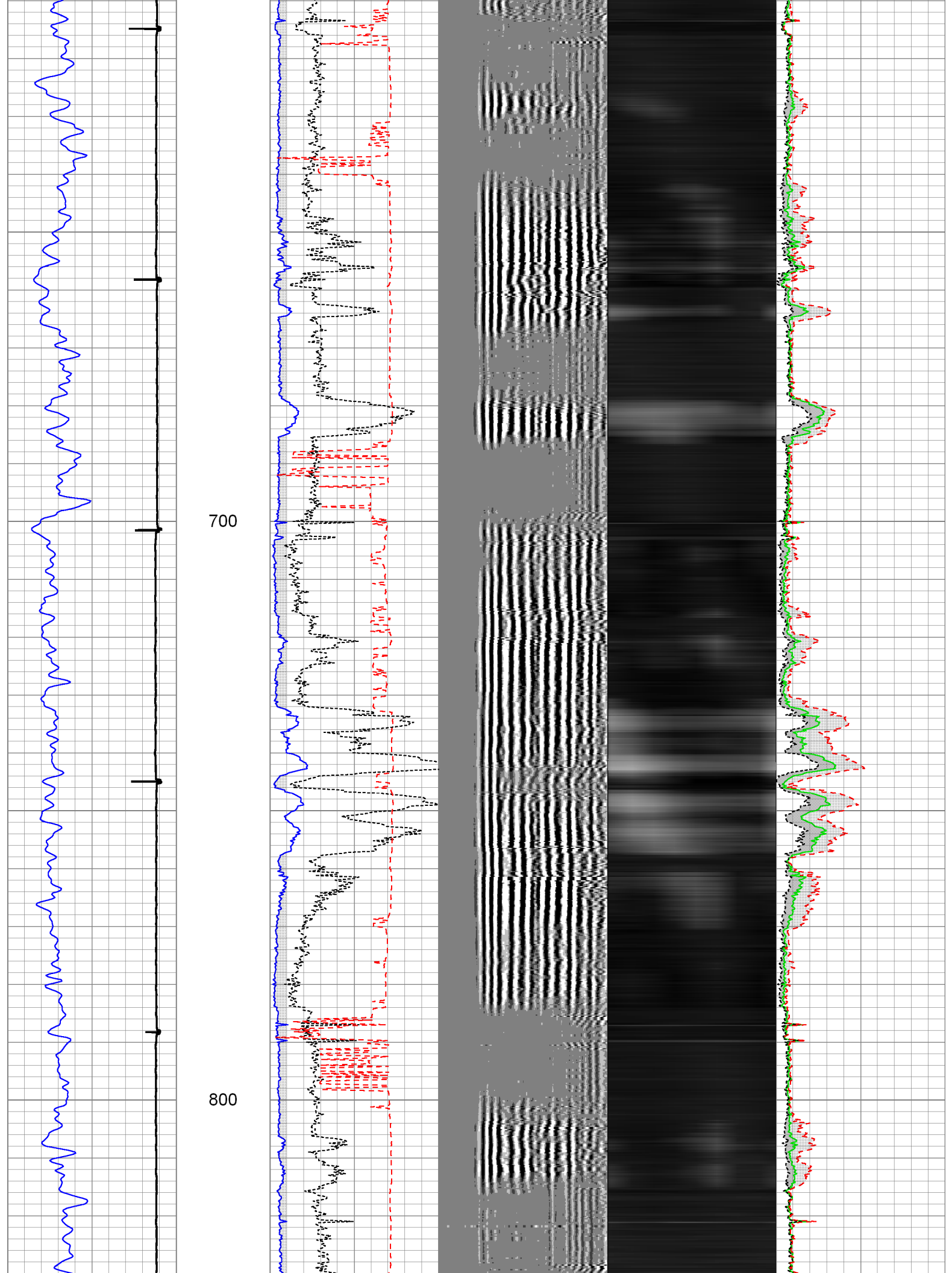
Logged With 2200 PSI At Surface

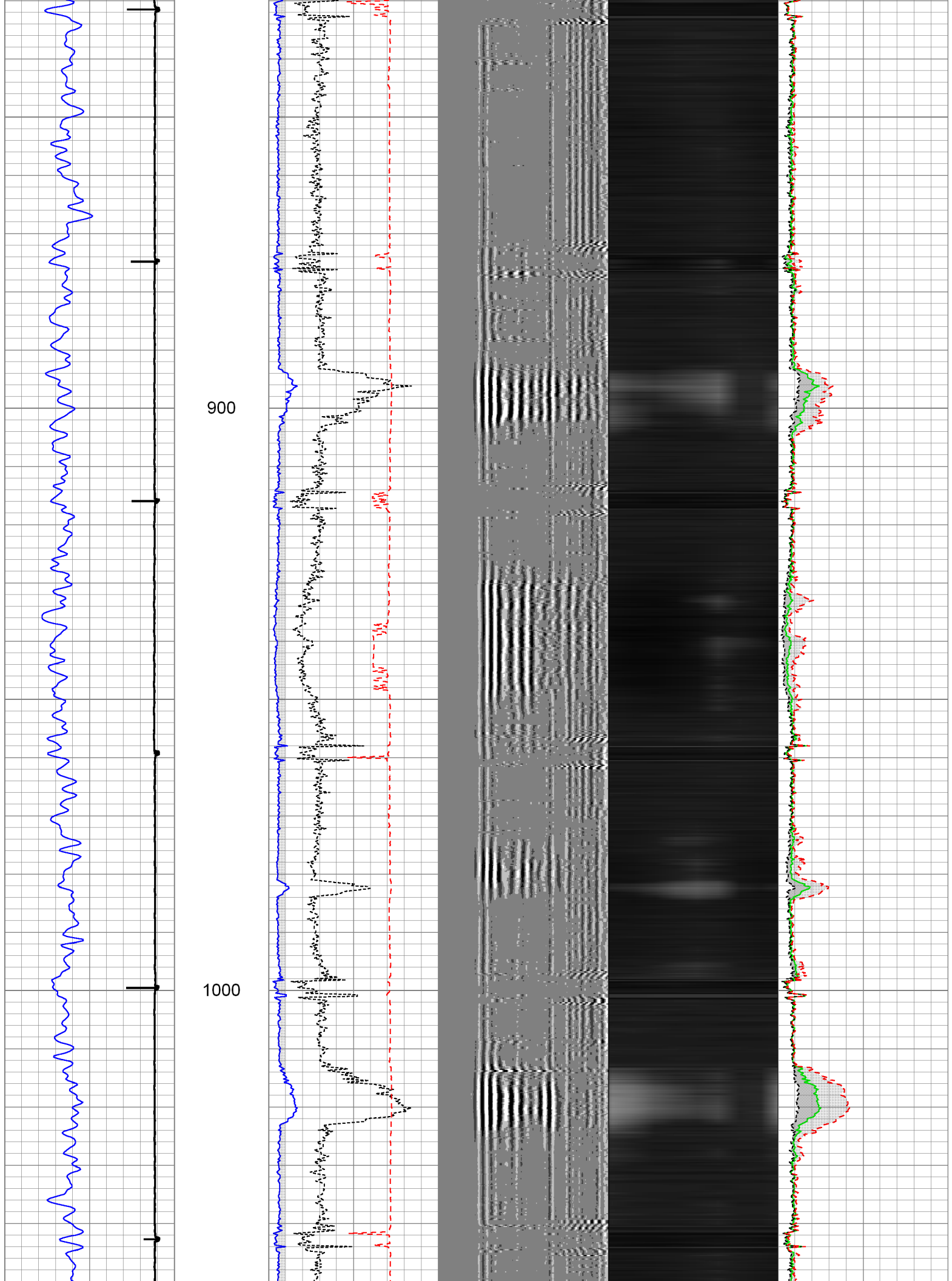
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Collar Locator	3' Amplitude x 5			Minimum Amplitude
	0 (mV) 20			0 100
	3' Travel Time			Maximum Amplitude
	650 (usec) 150			0 100

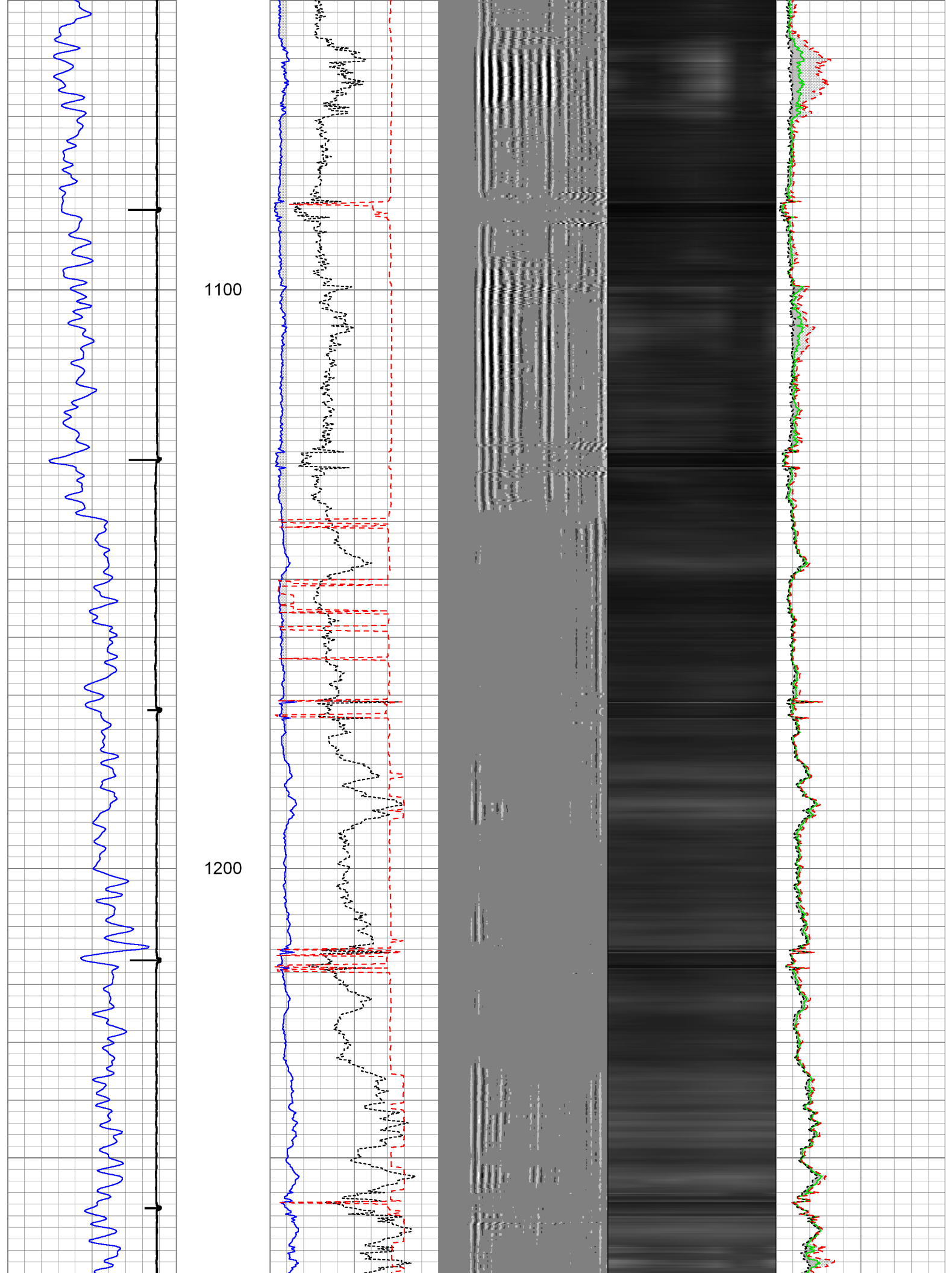


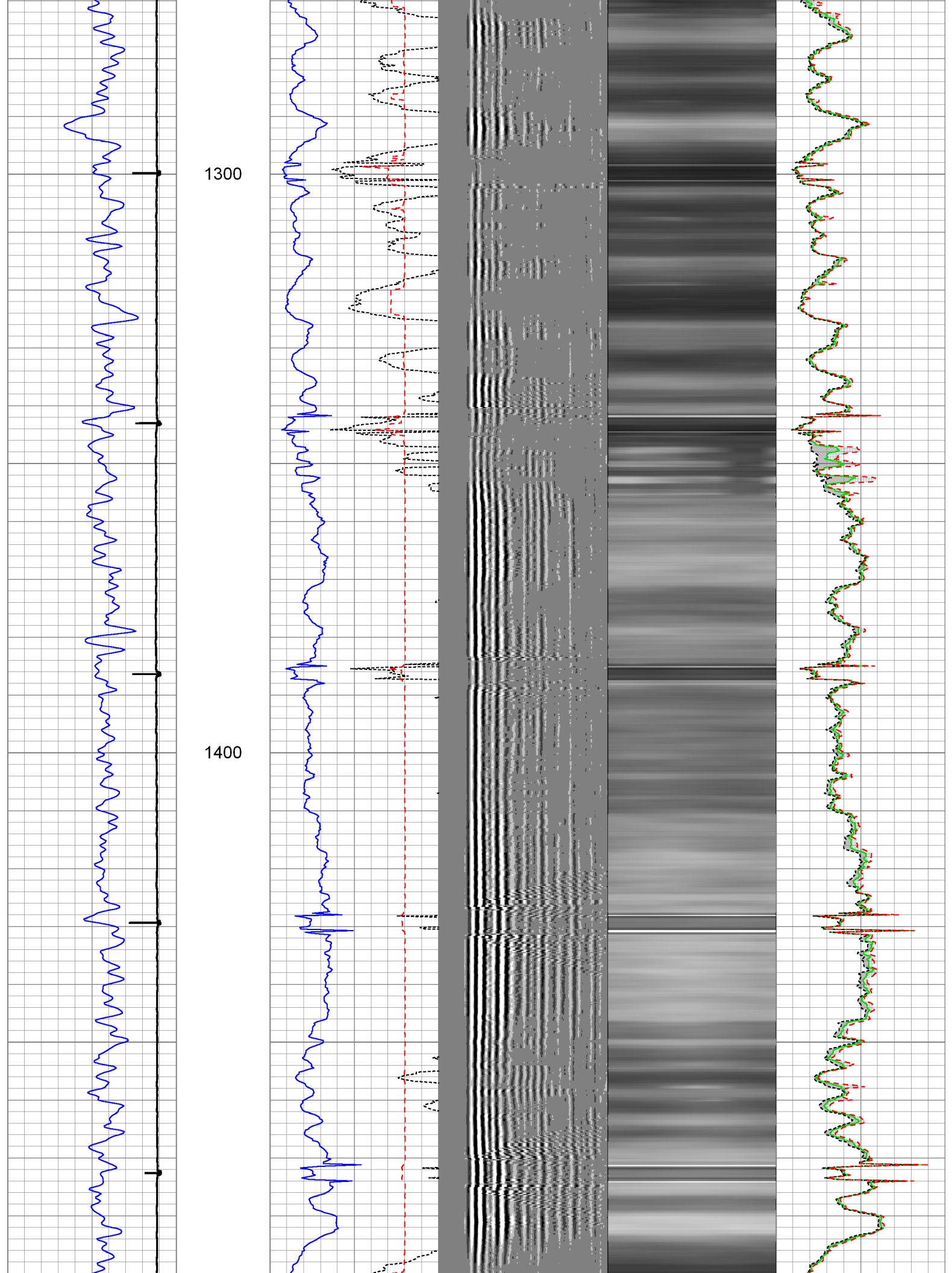


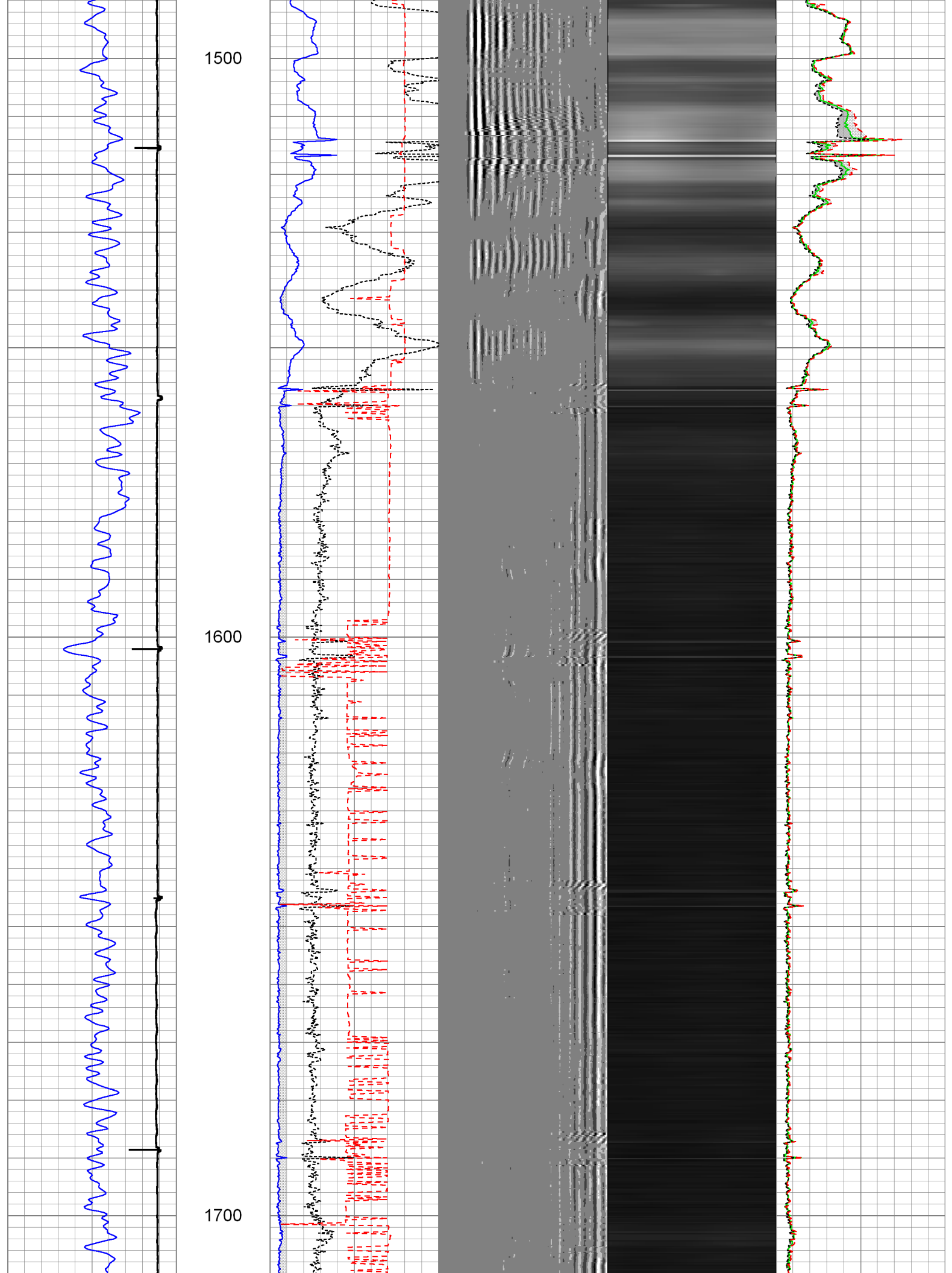


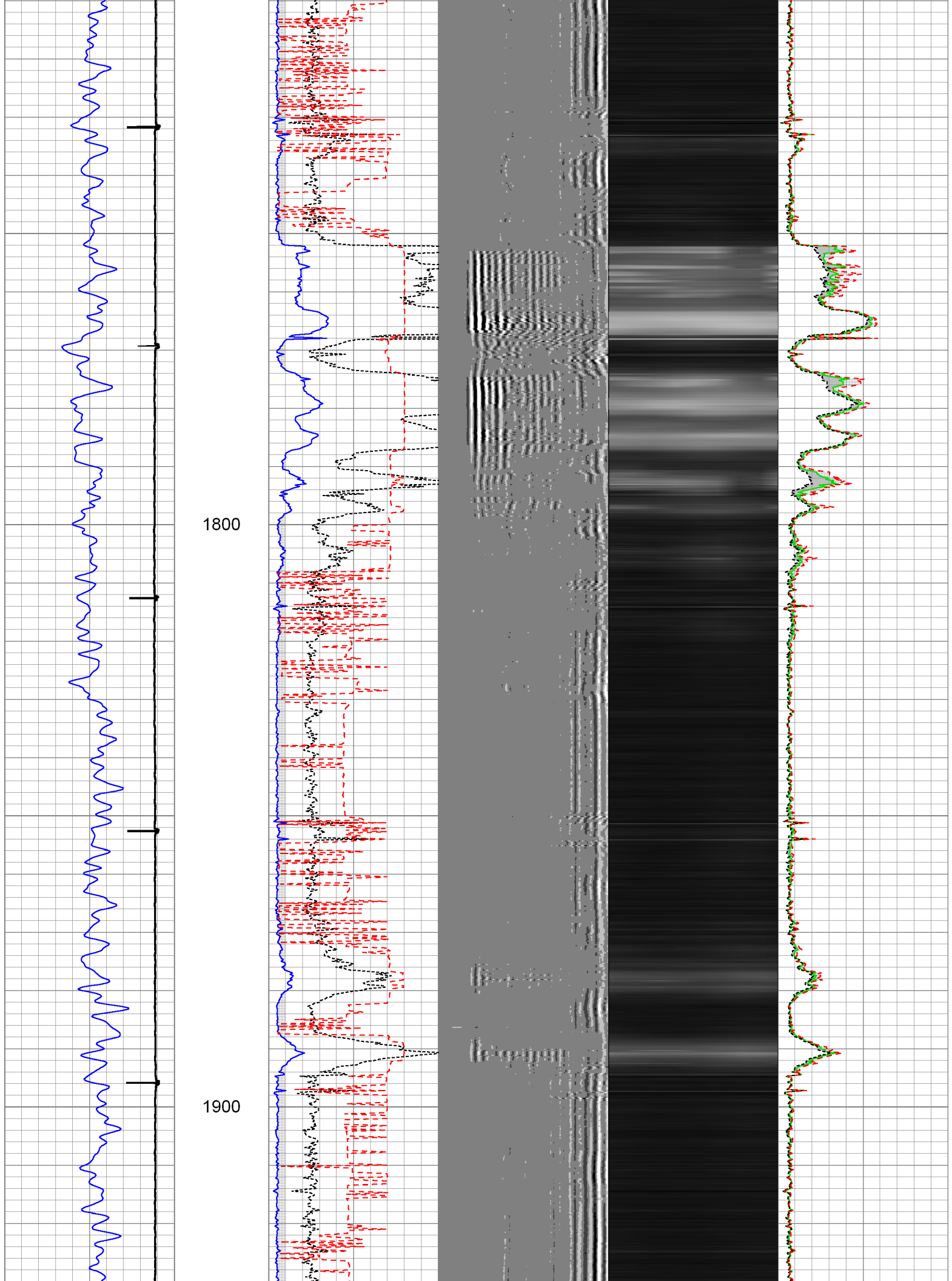






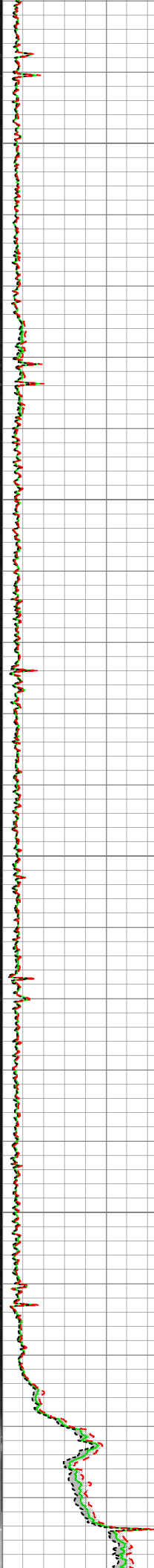
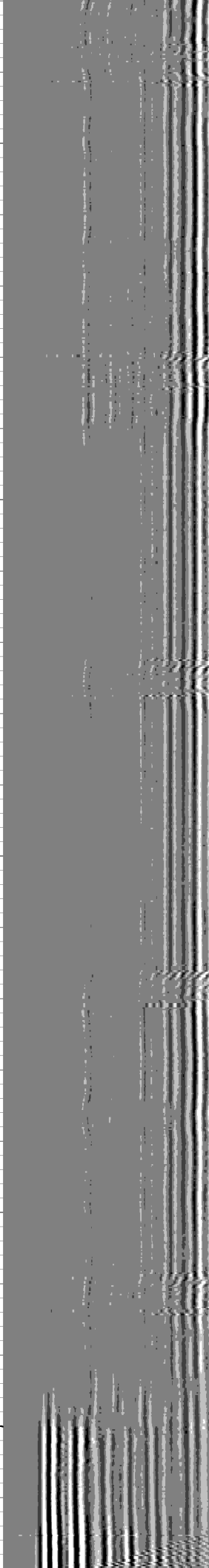
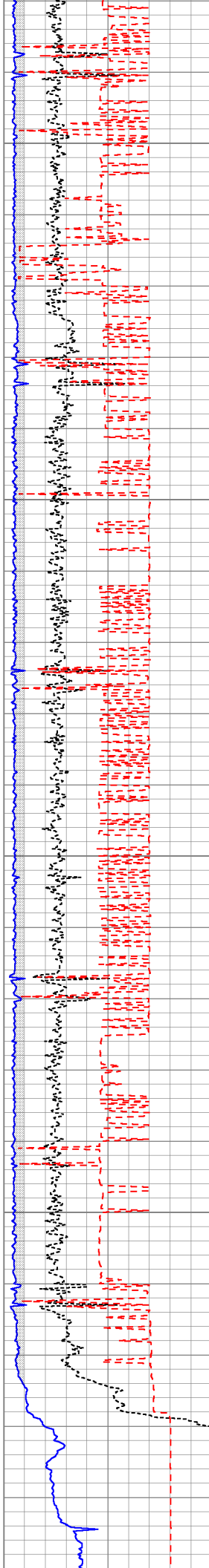






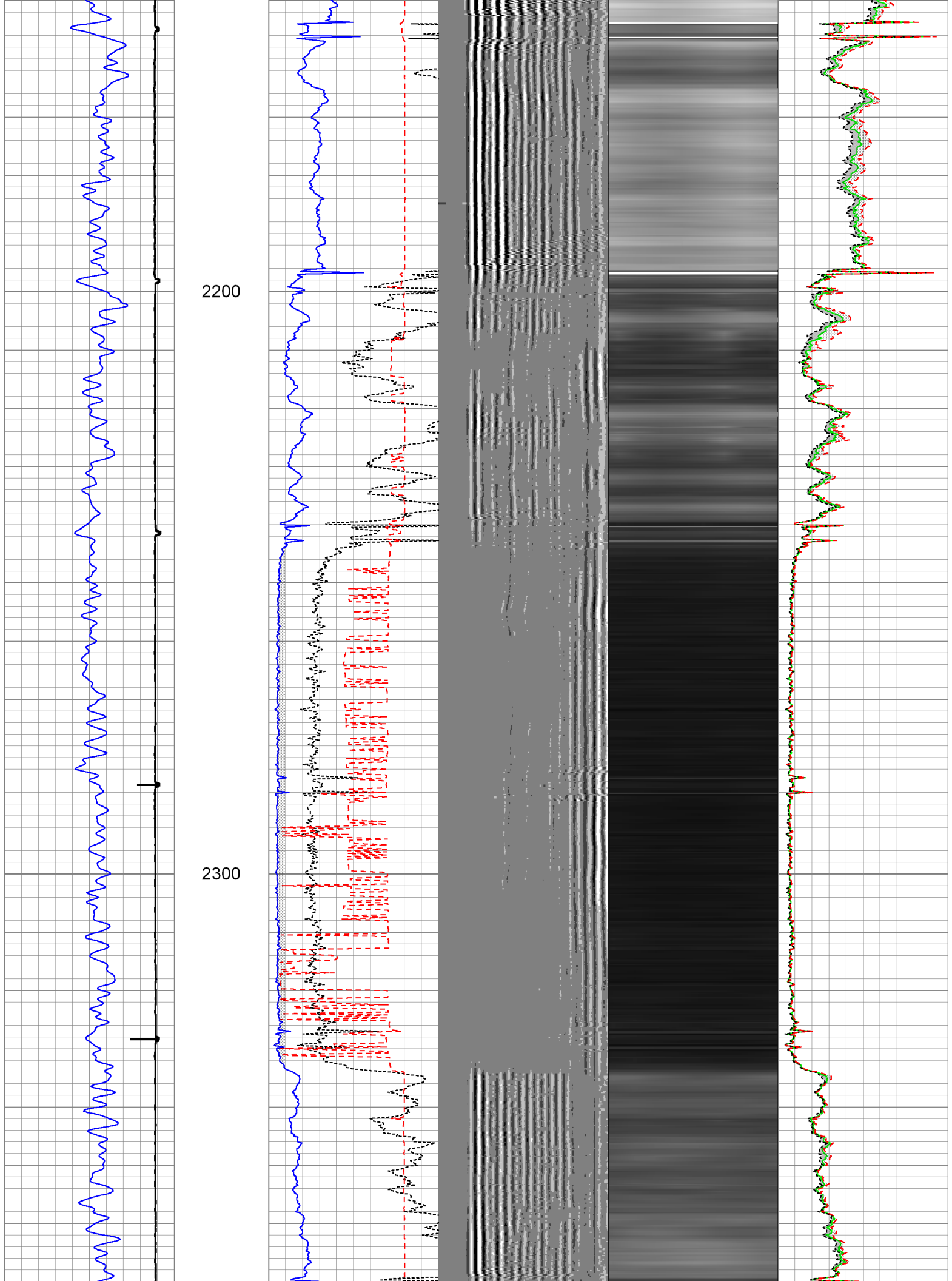
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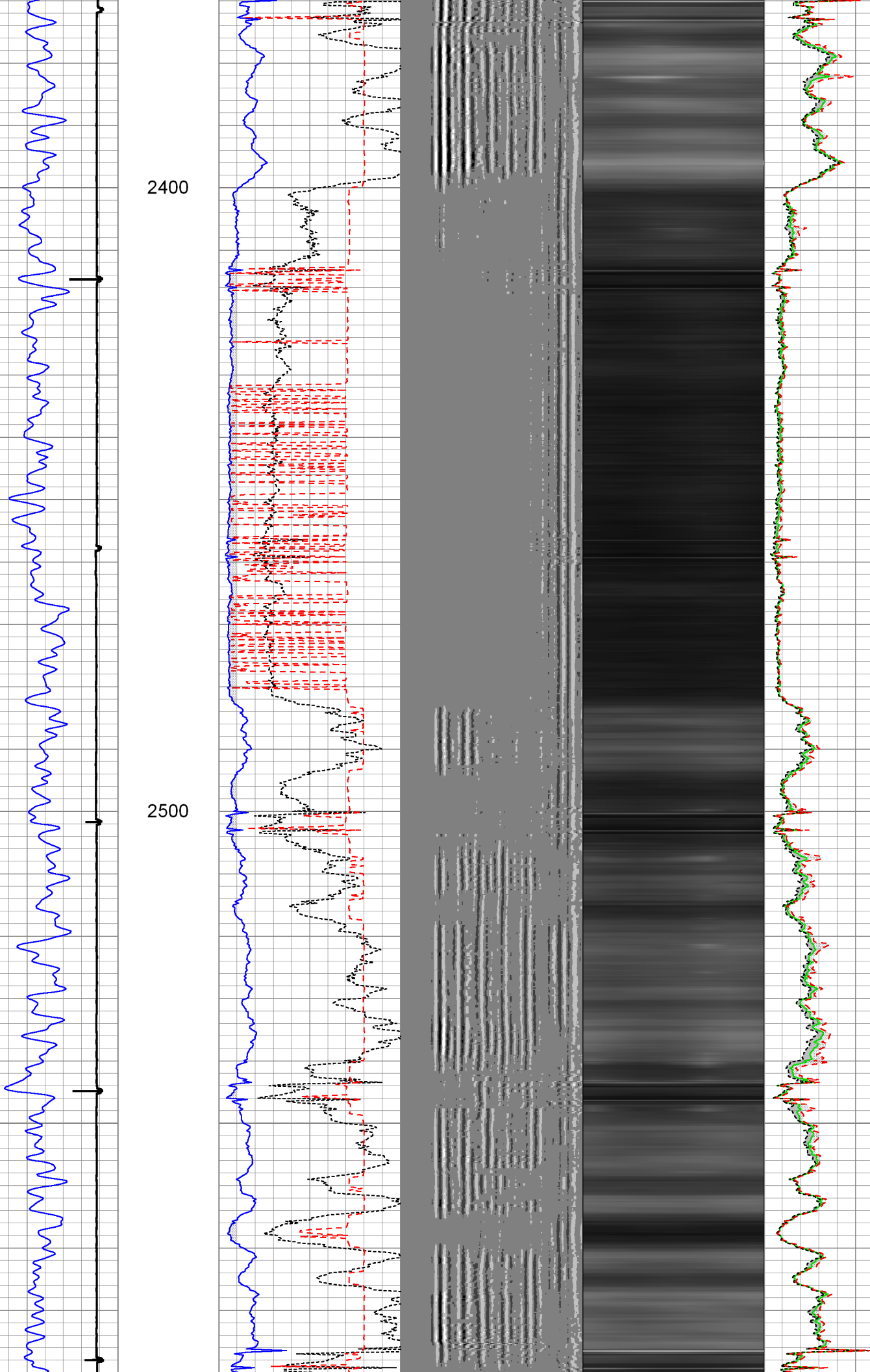
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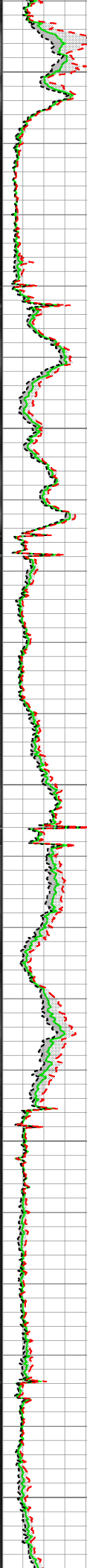
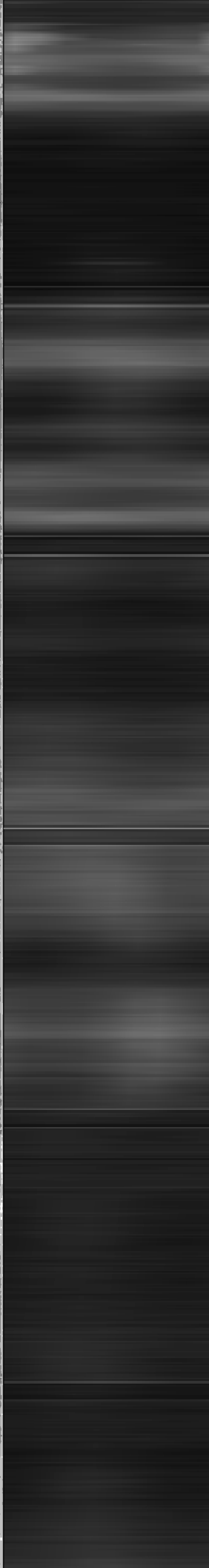
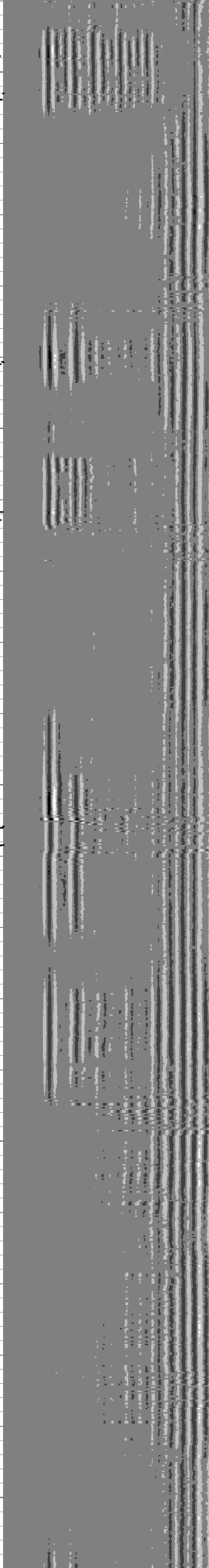
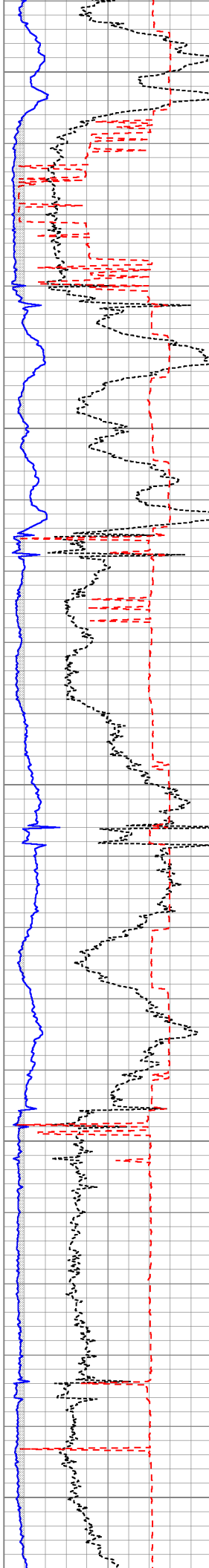
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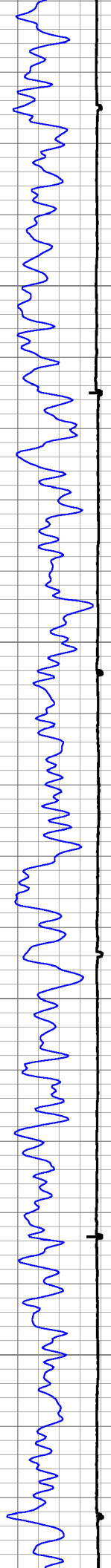


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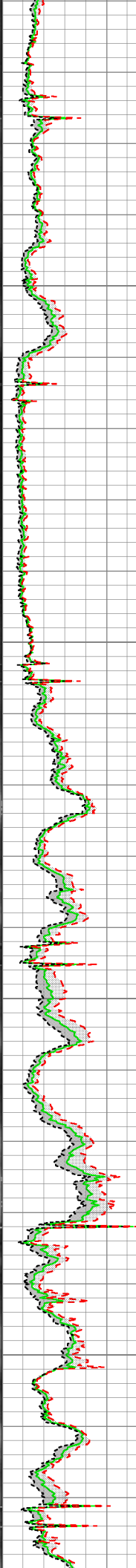
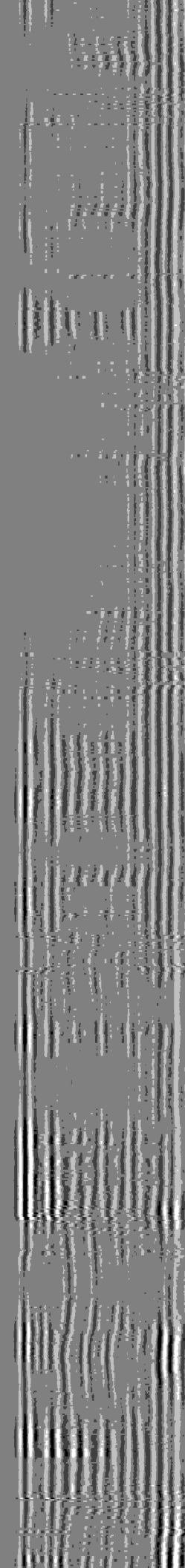
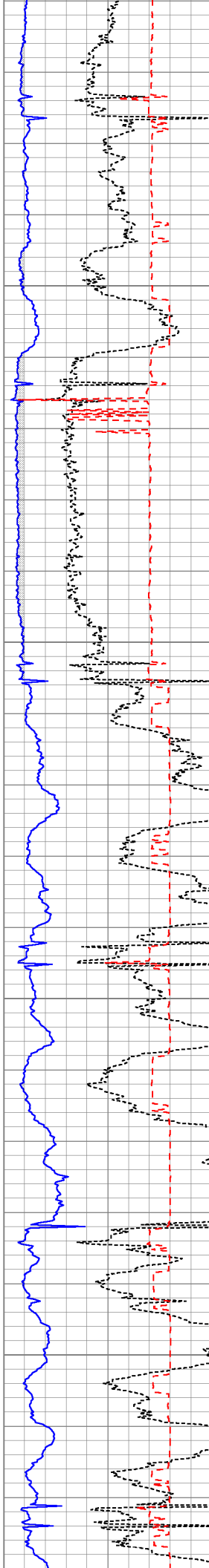
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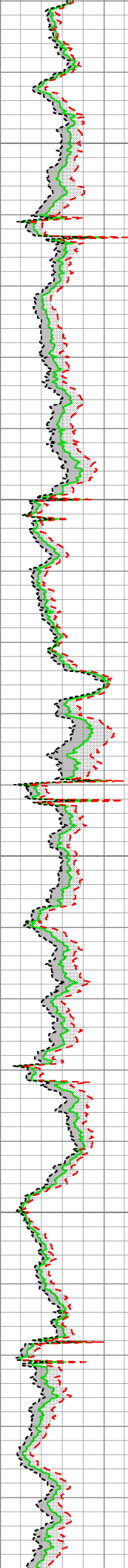
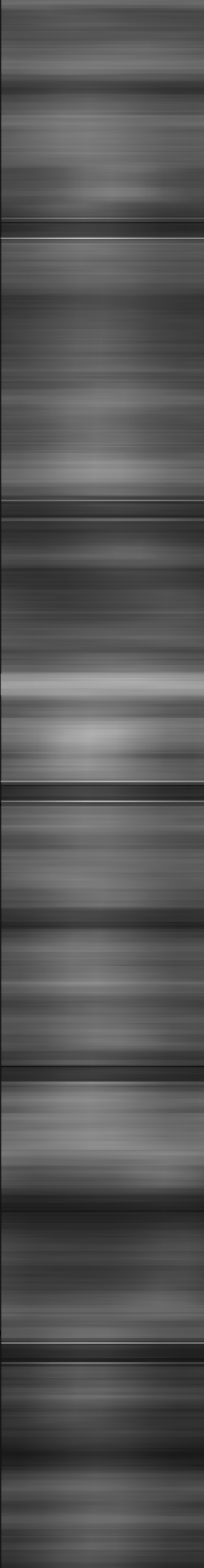
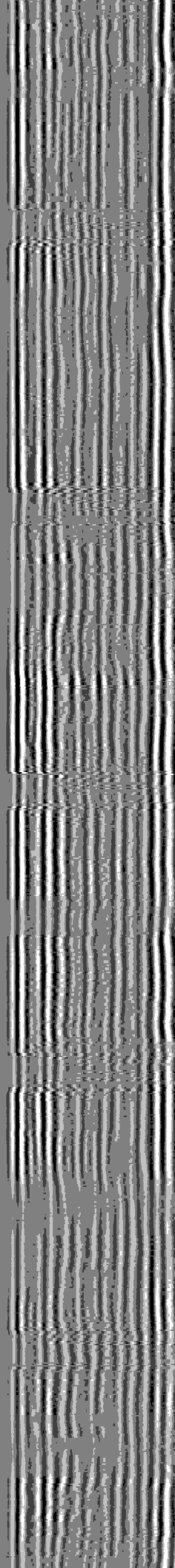
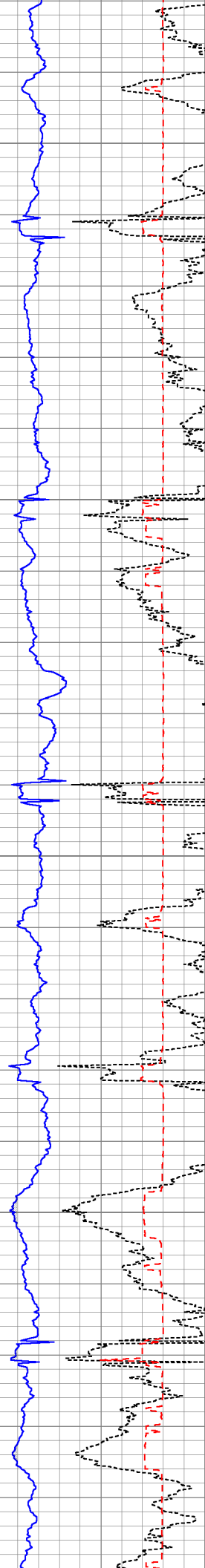
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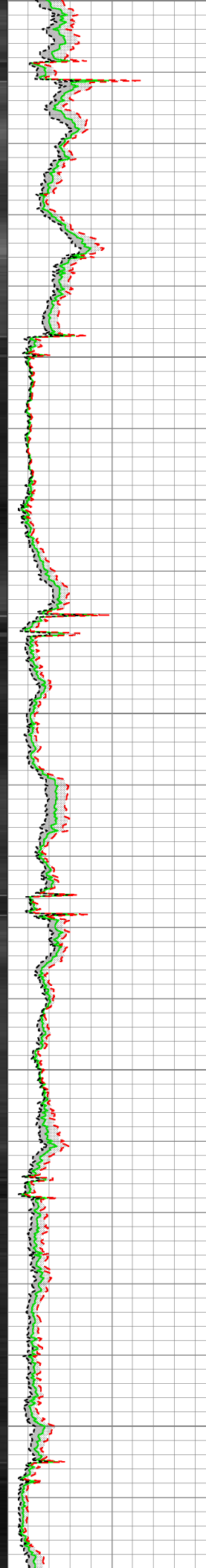
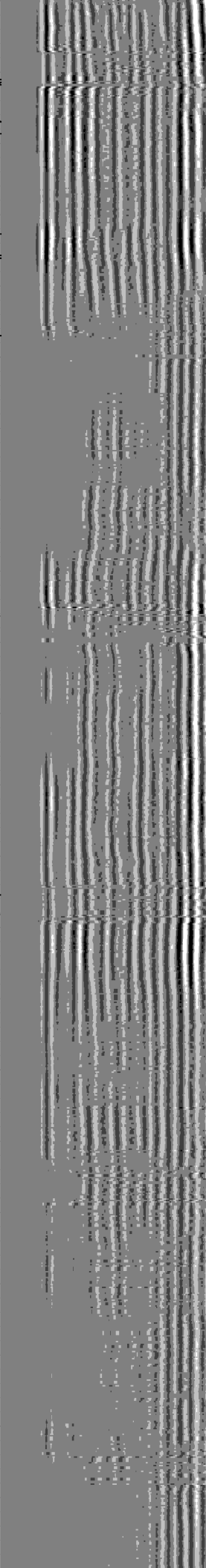
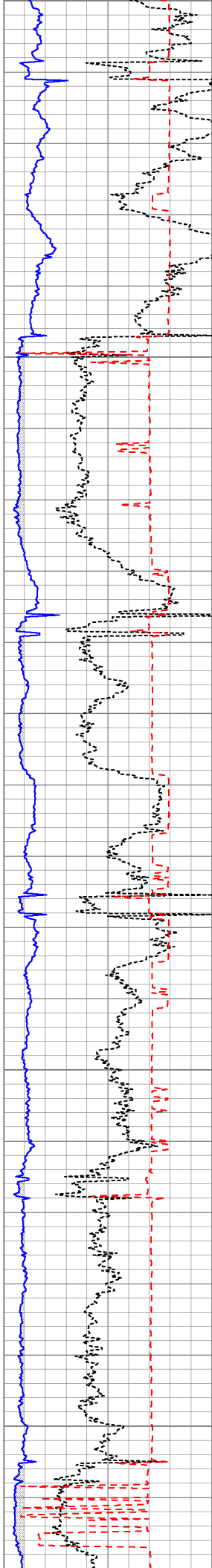
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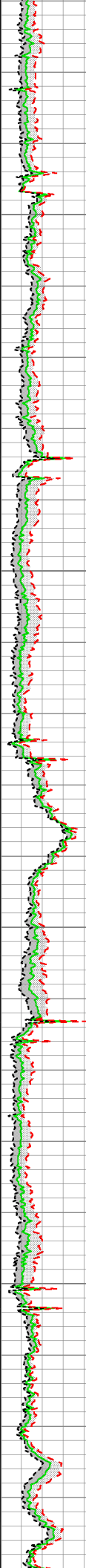
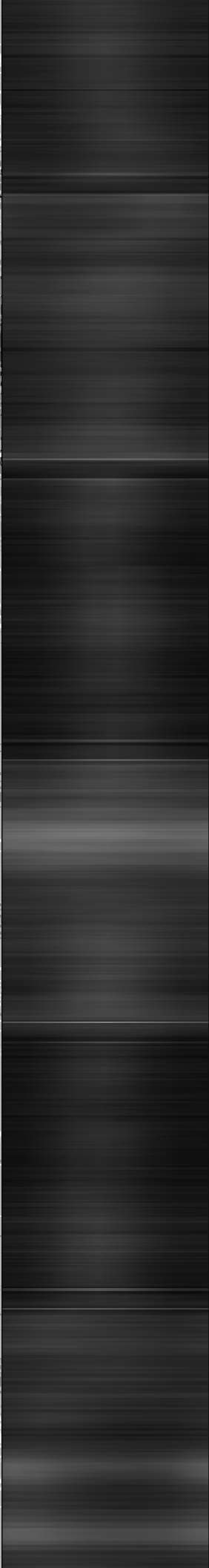
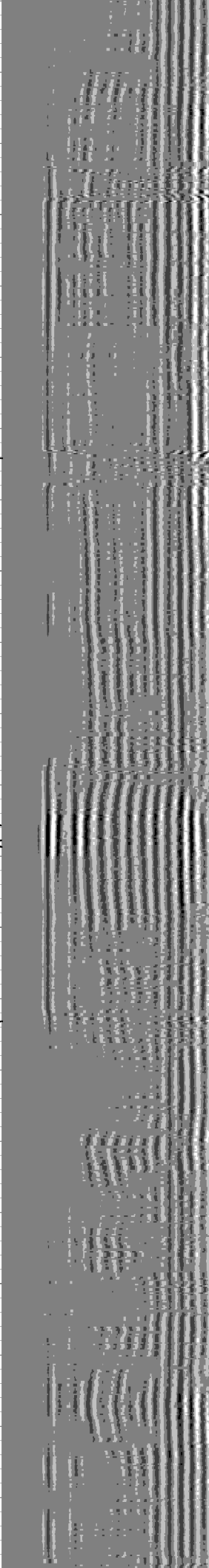
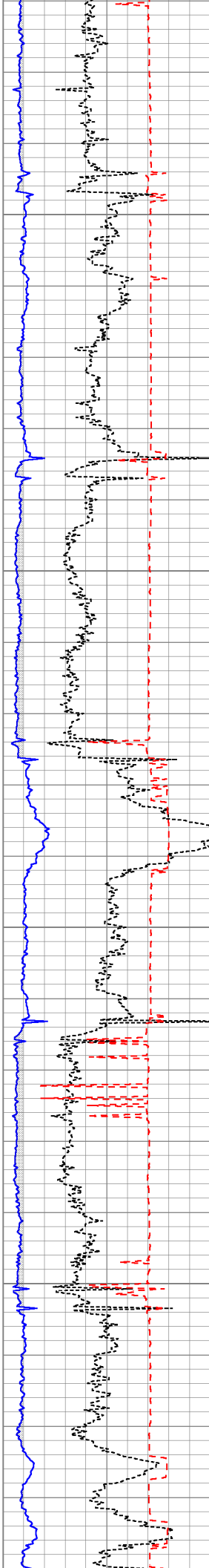
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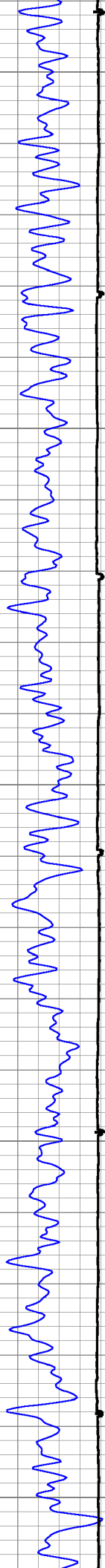
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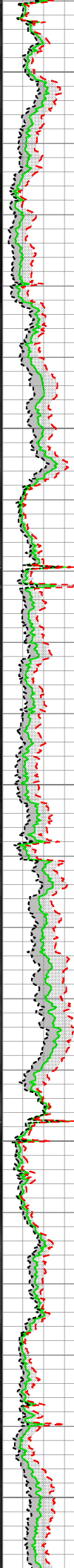
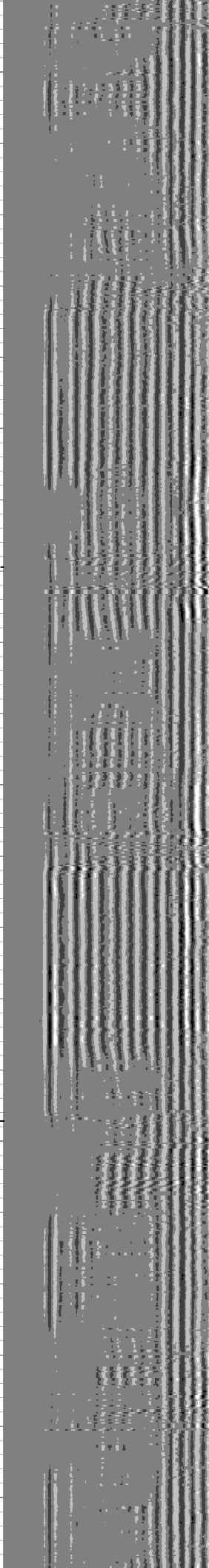
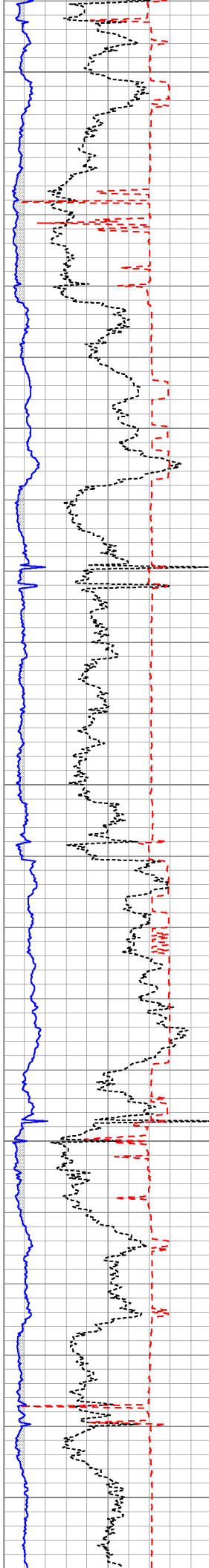




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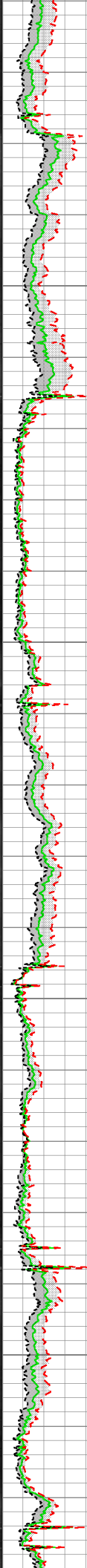
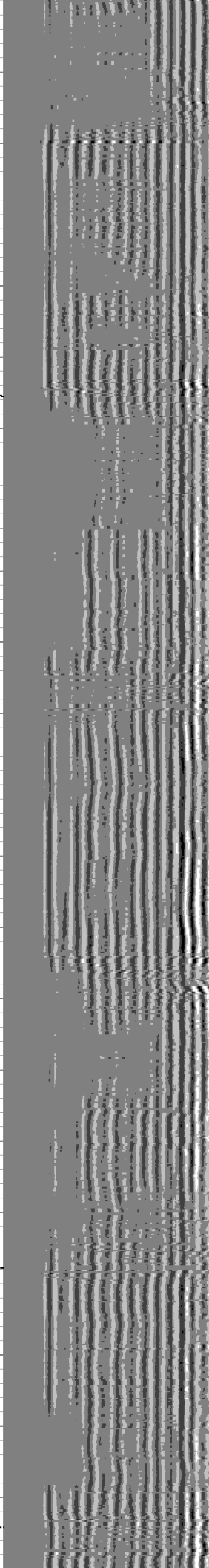
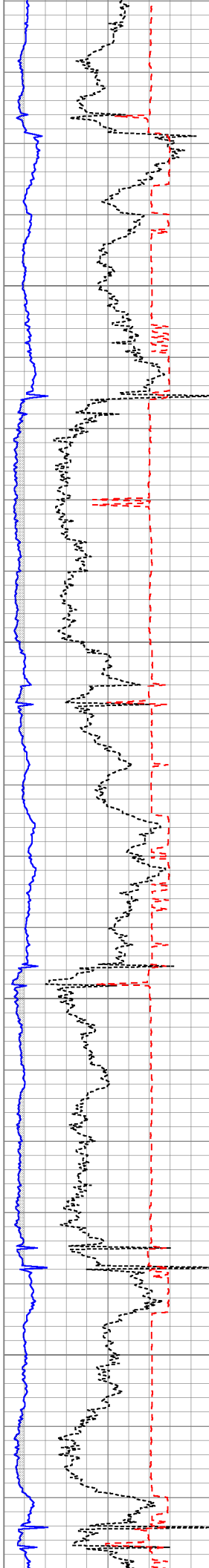
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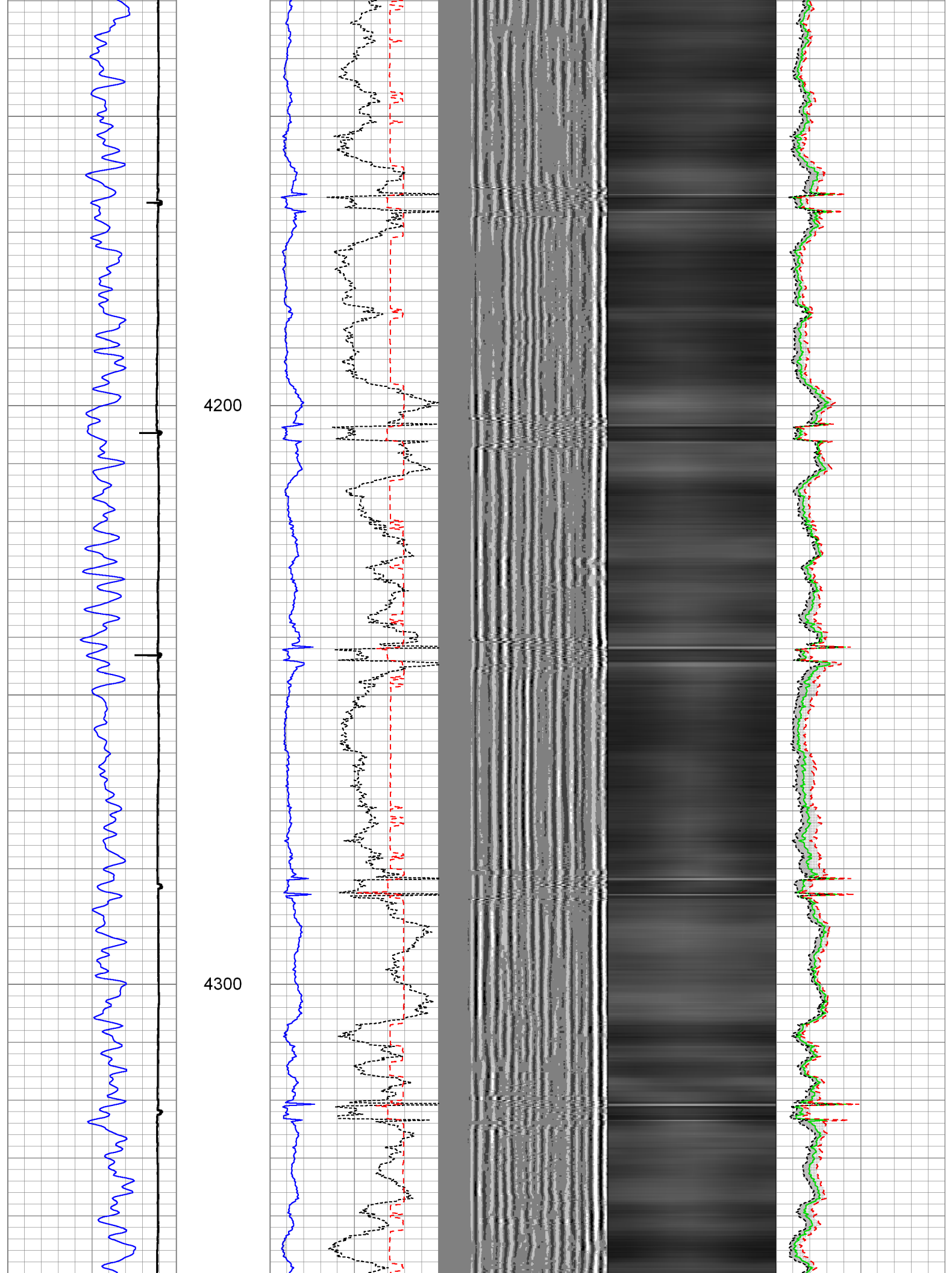


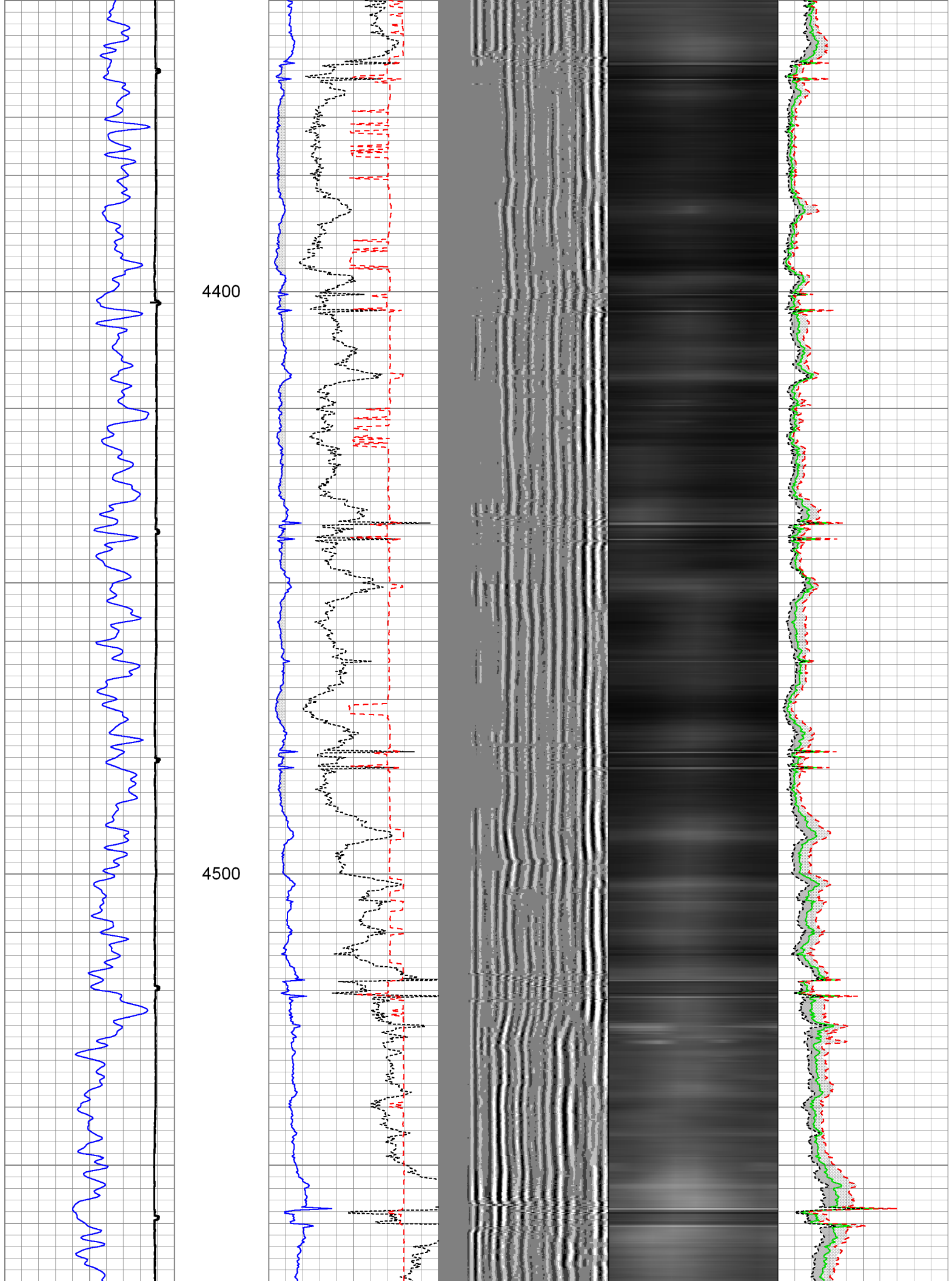


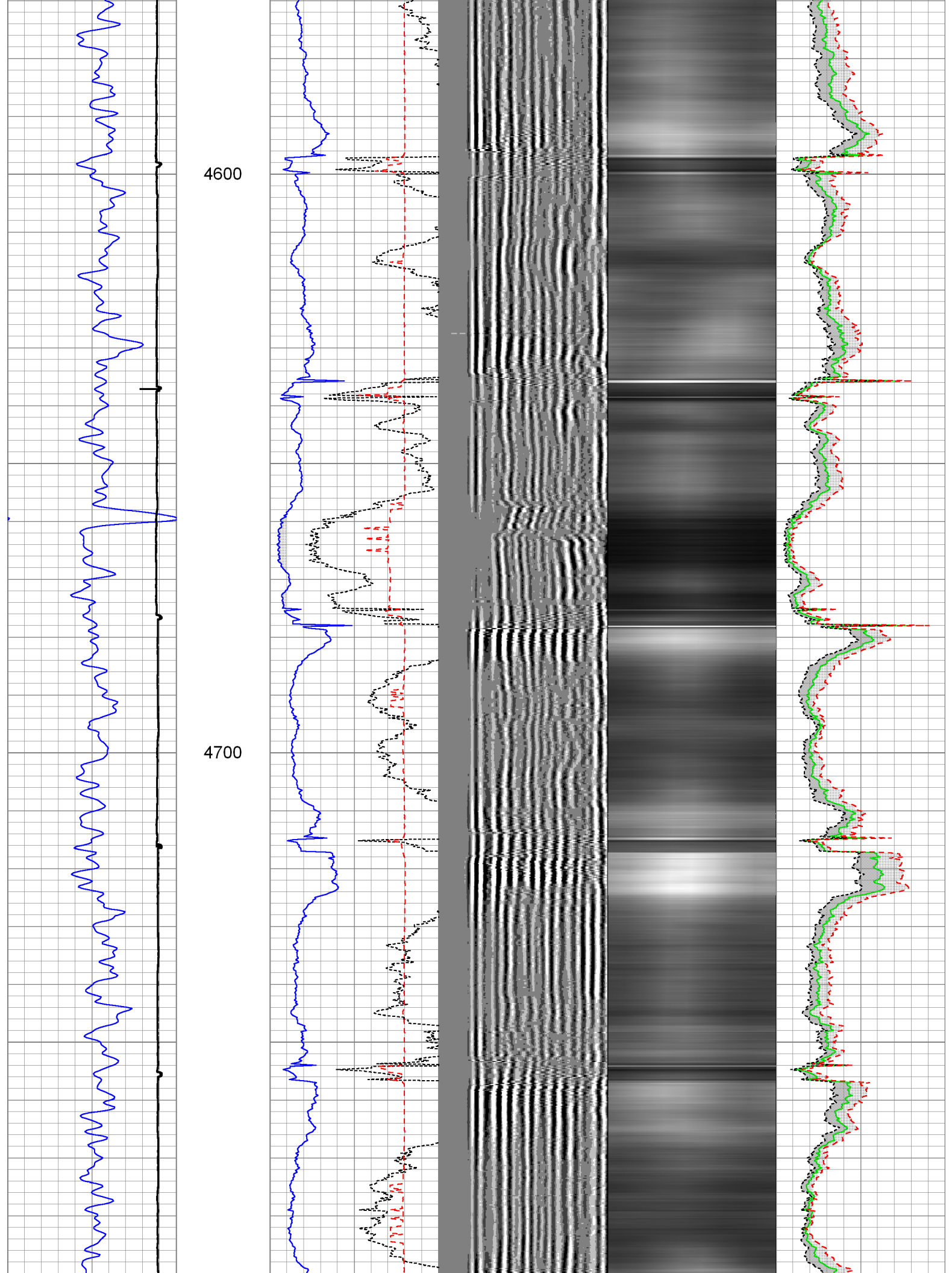
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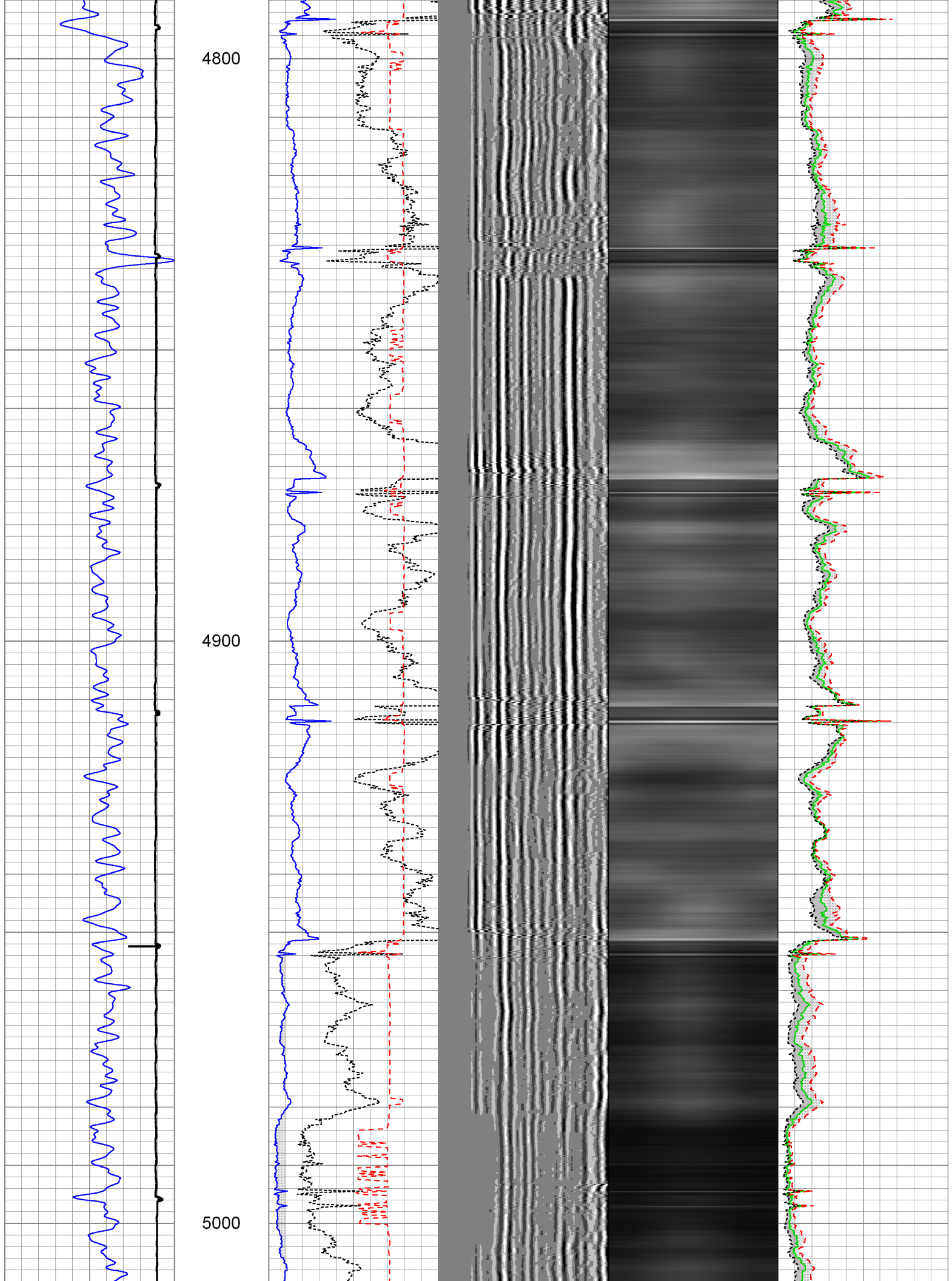
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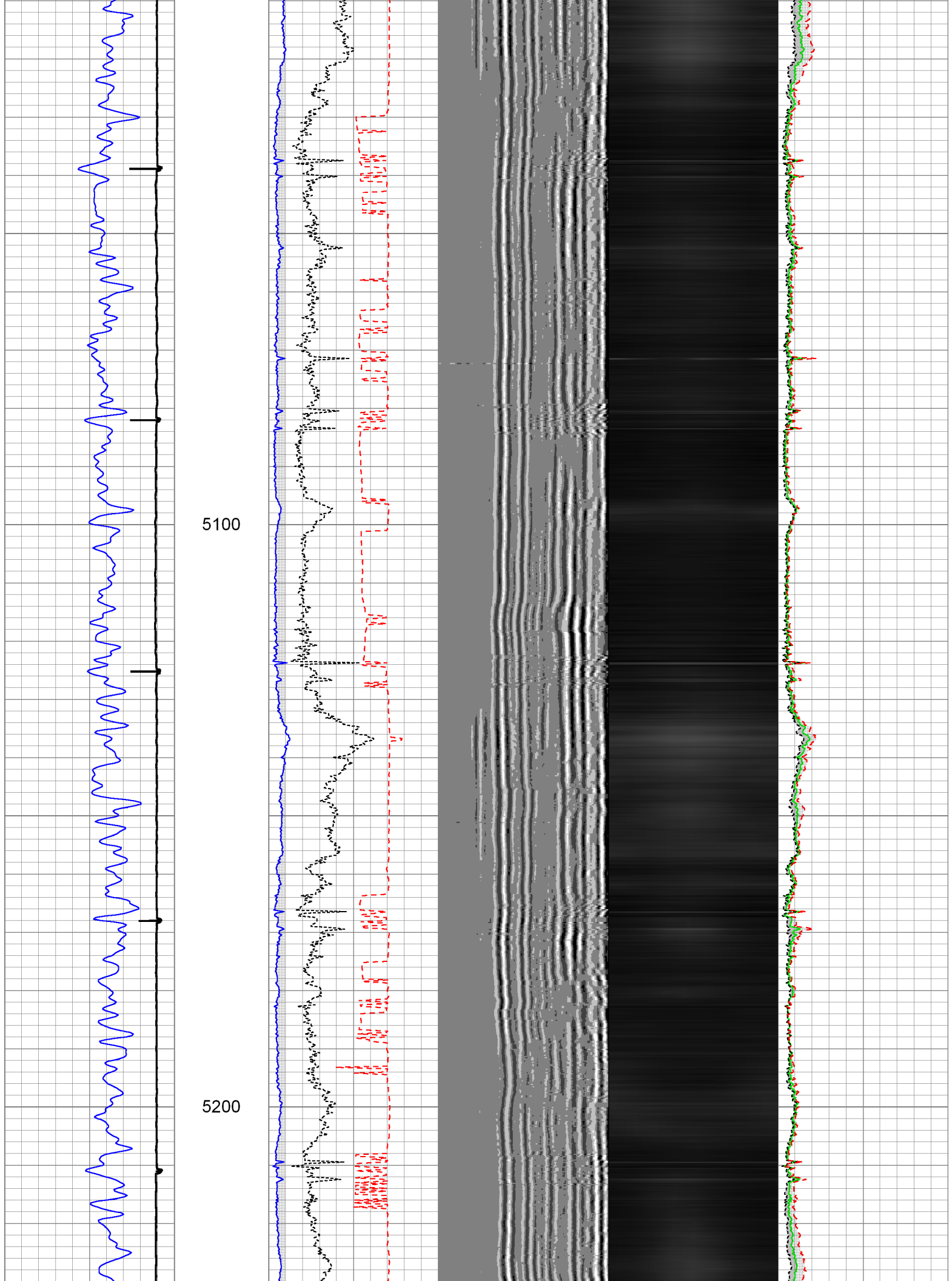


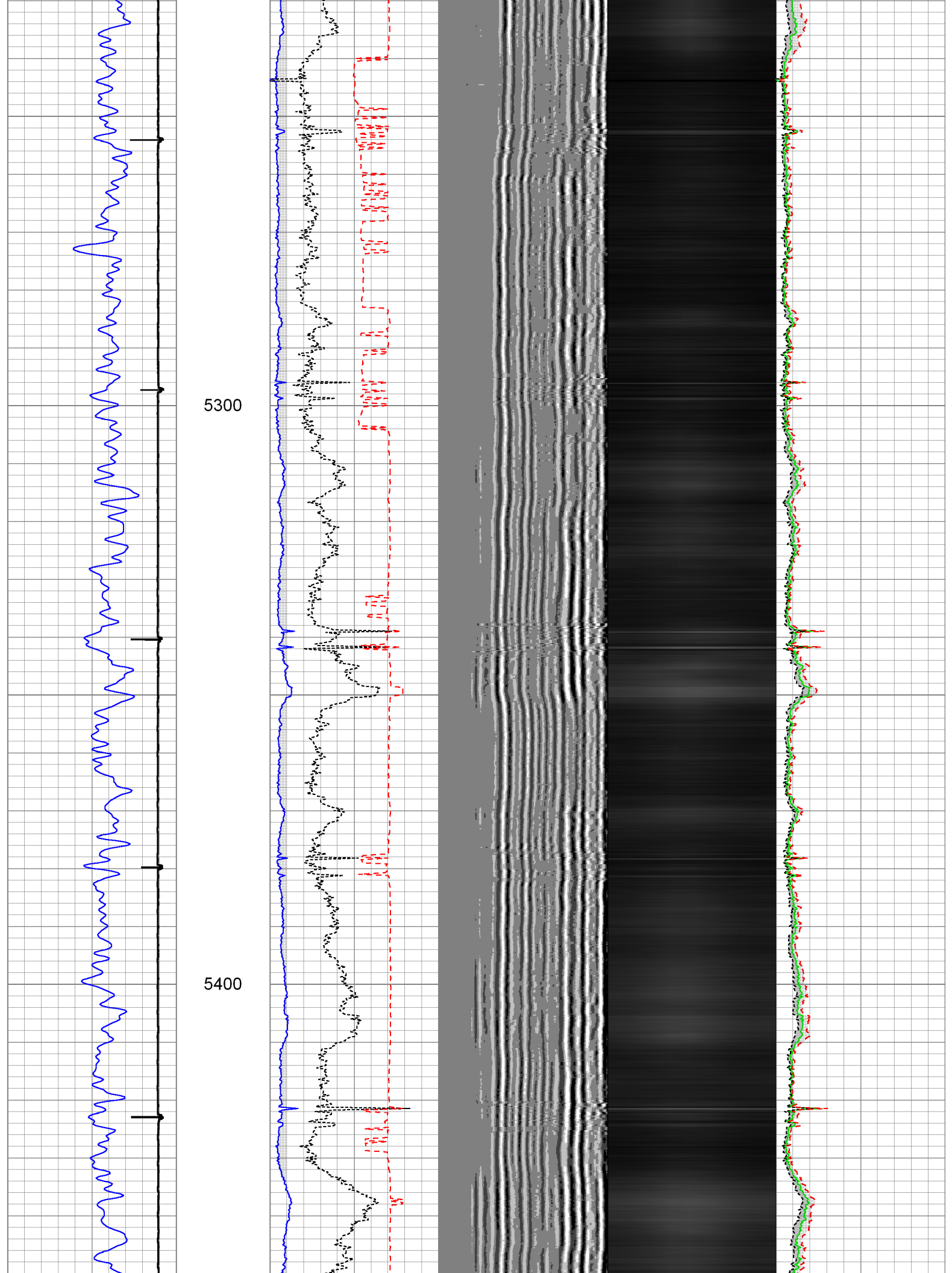


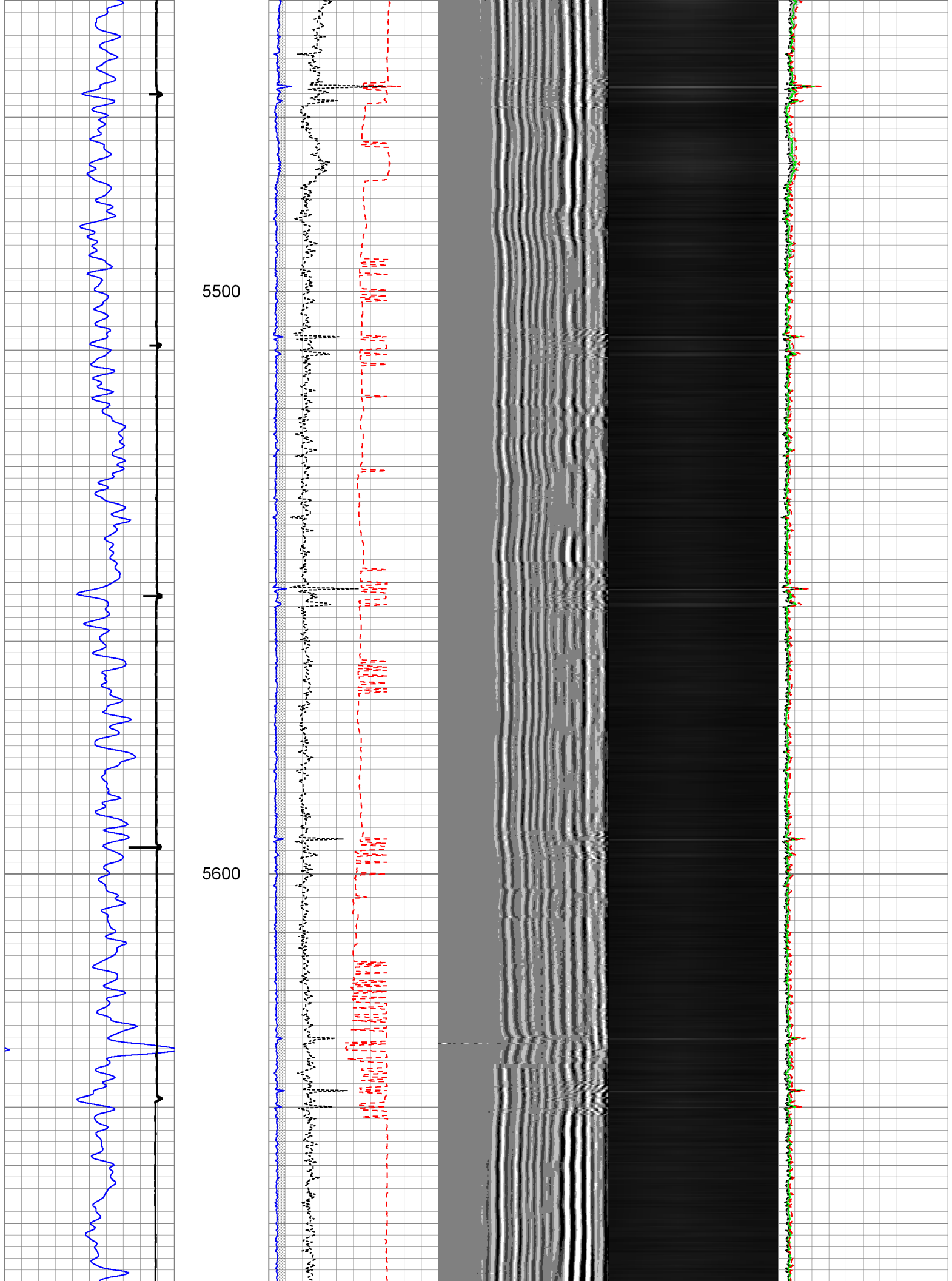






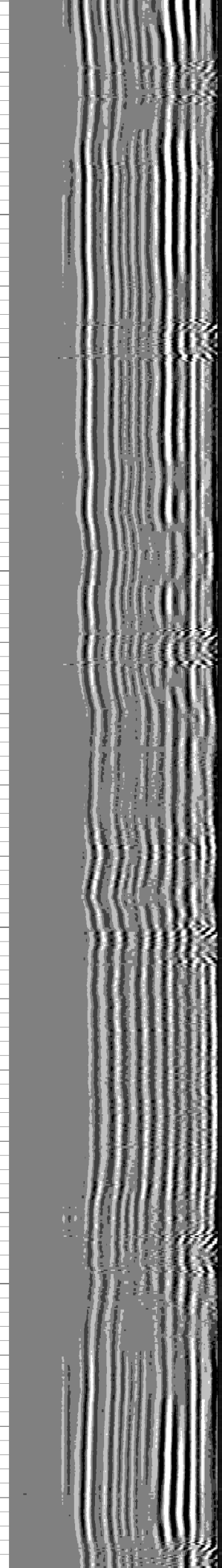
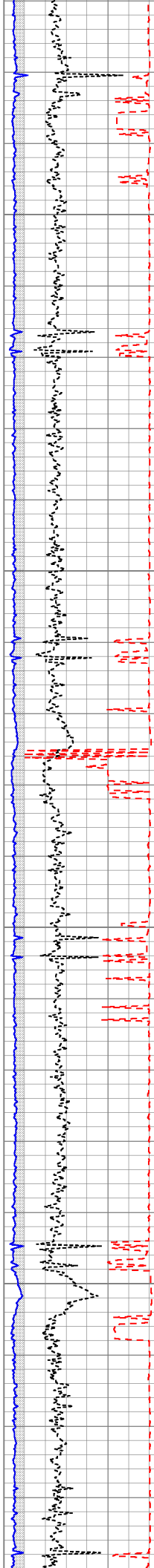
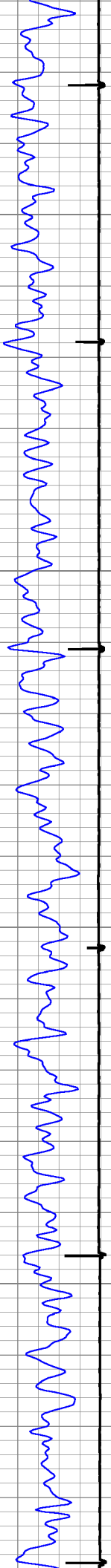


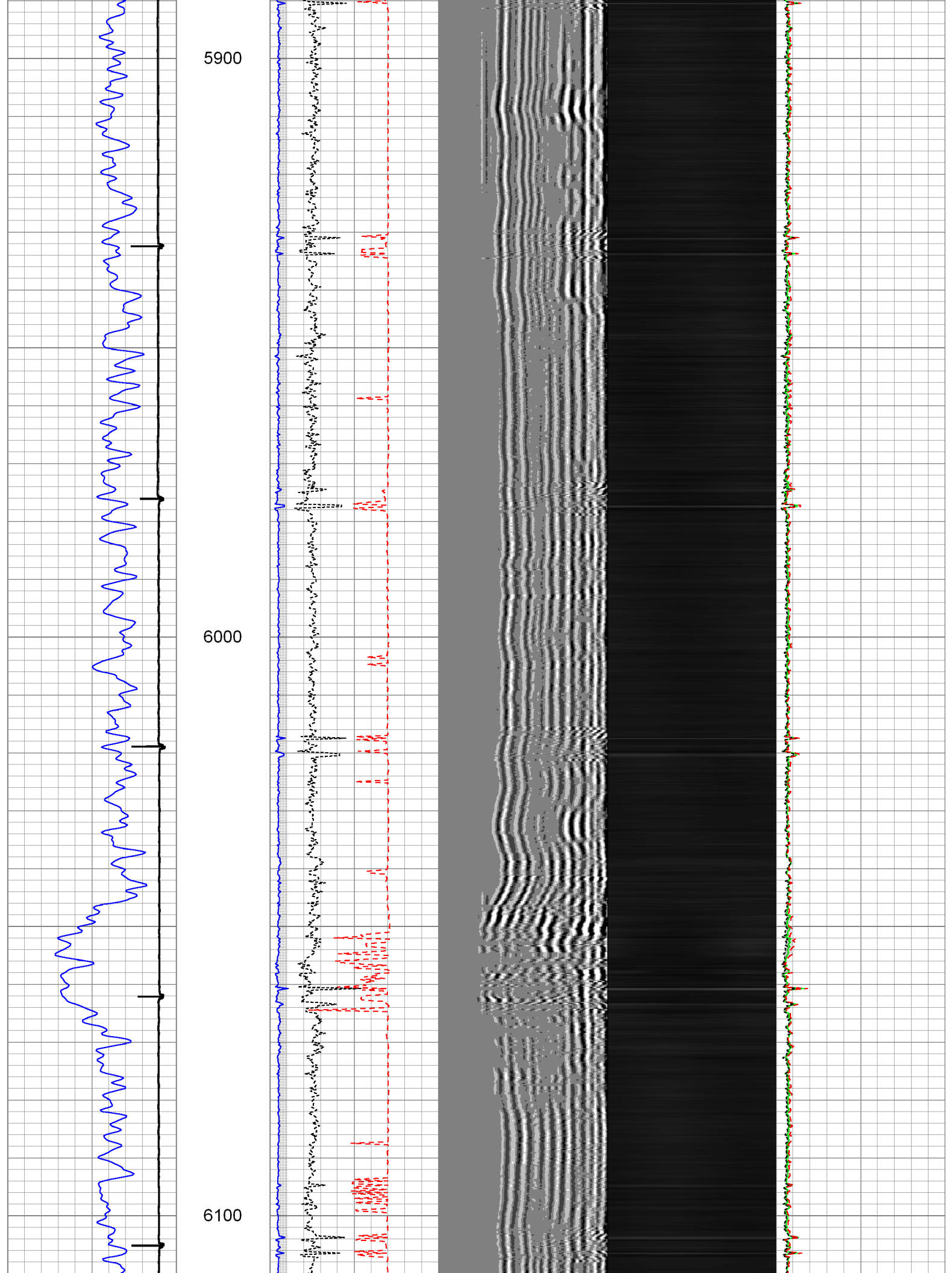




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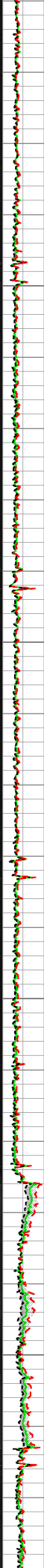
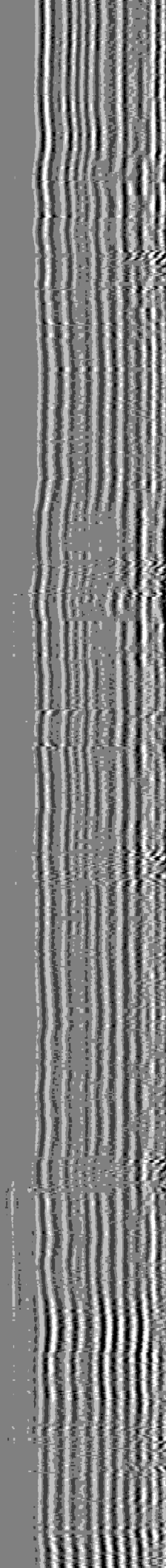
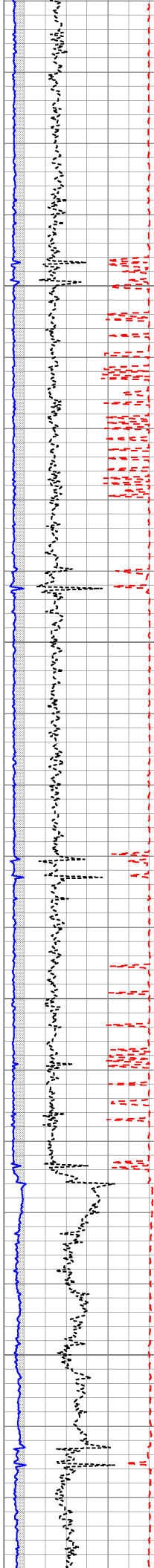






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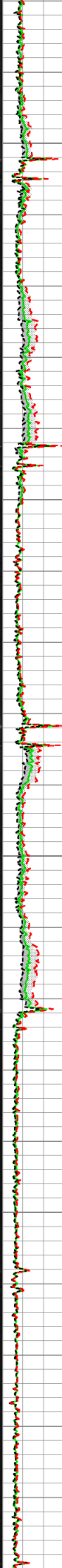
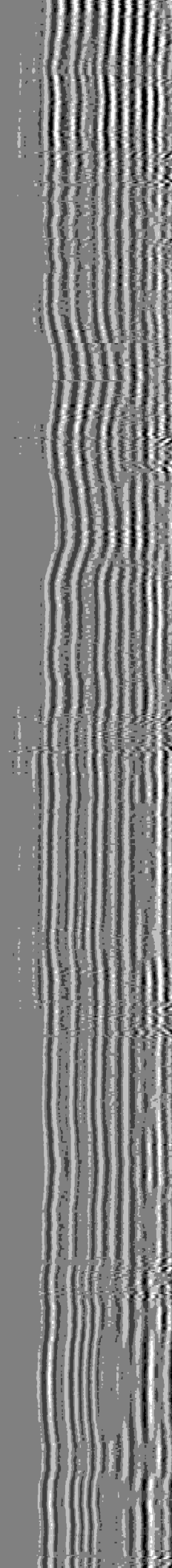
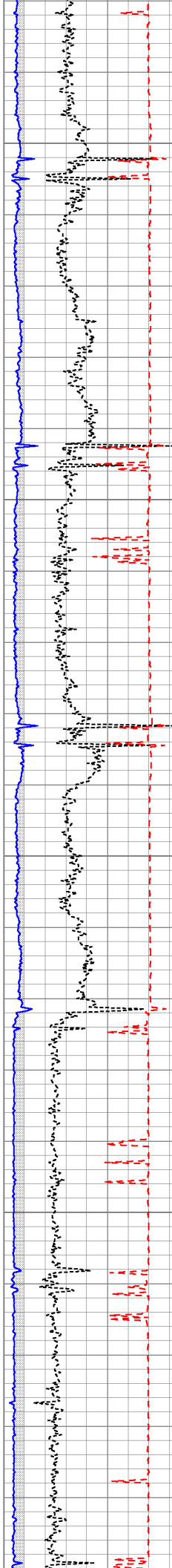
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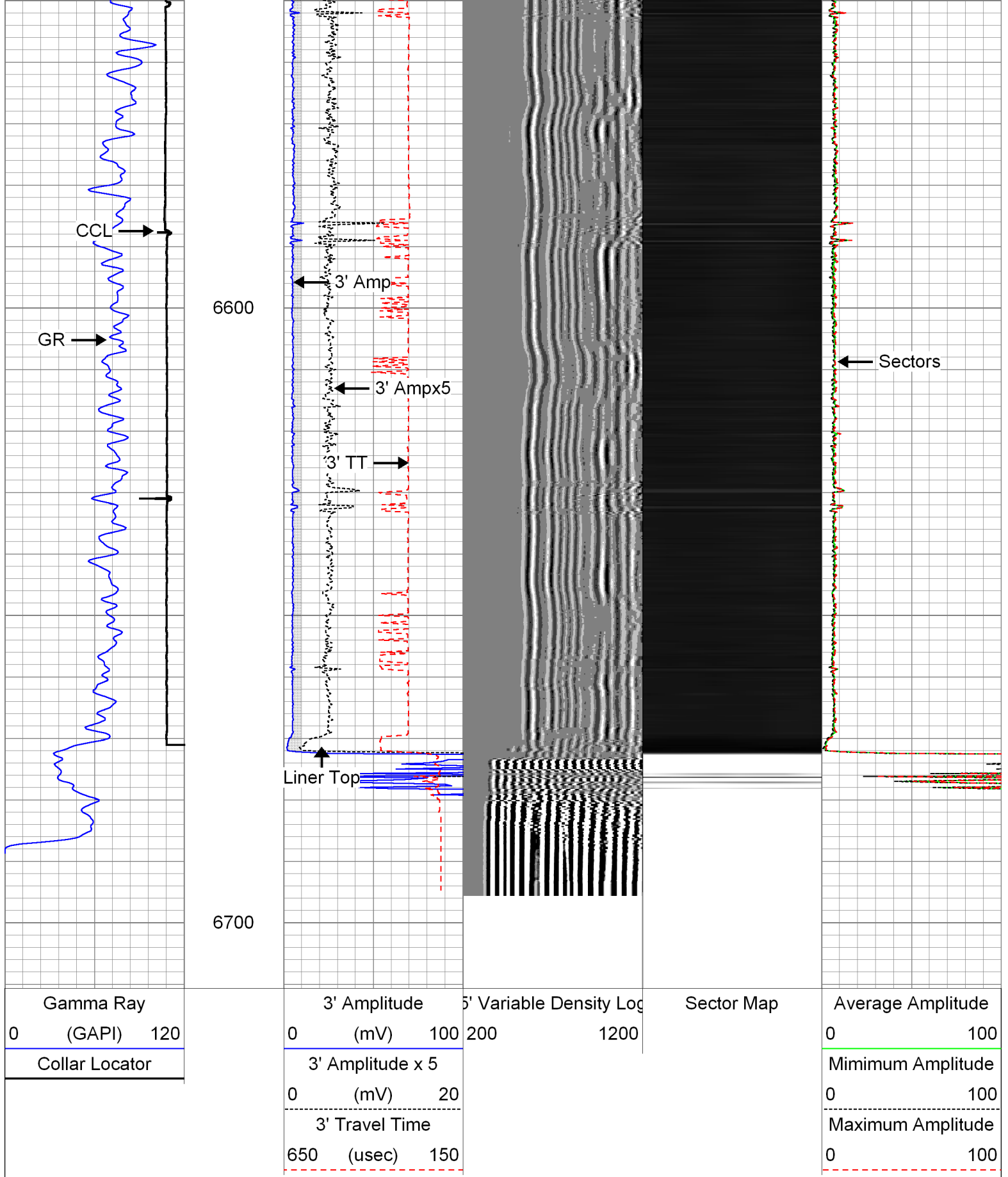




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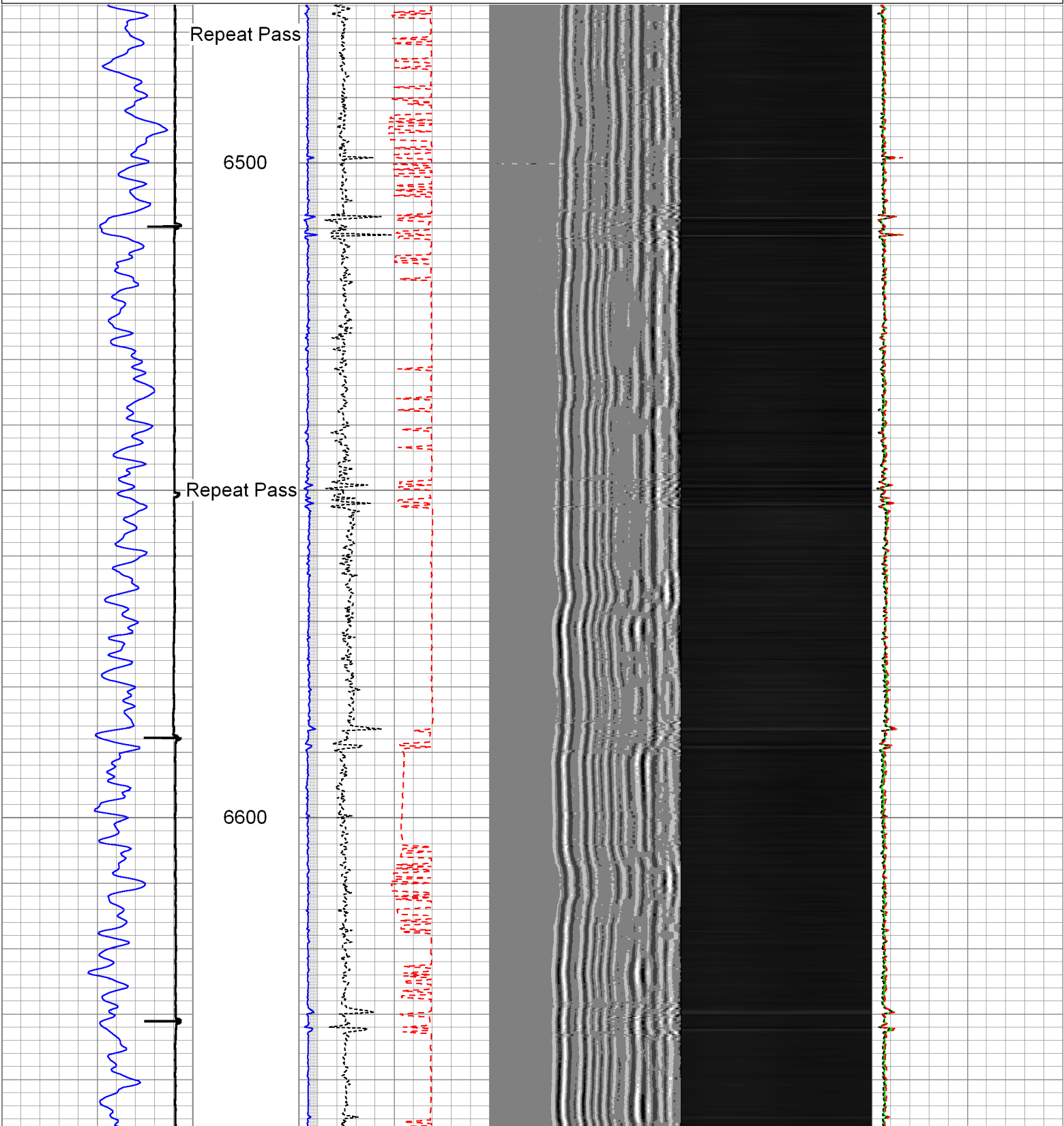
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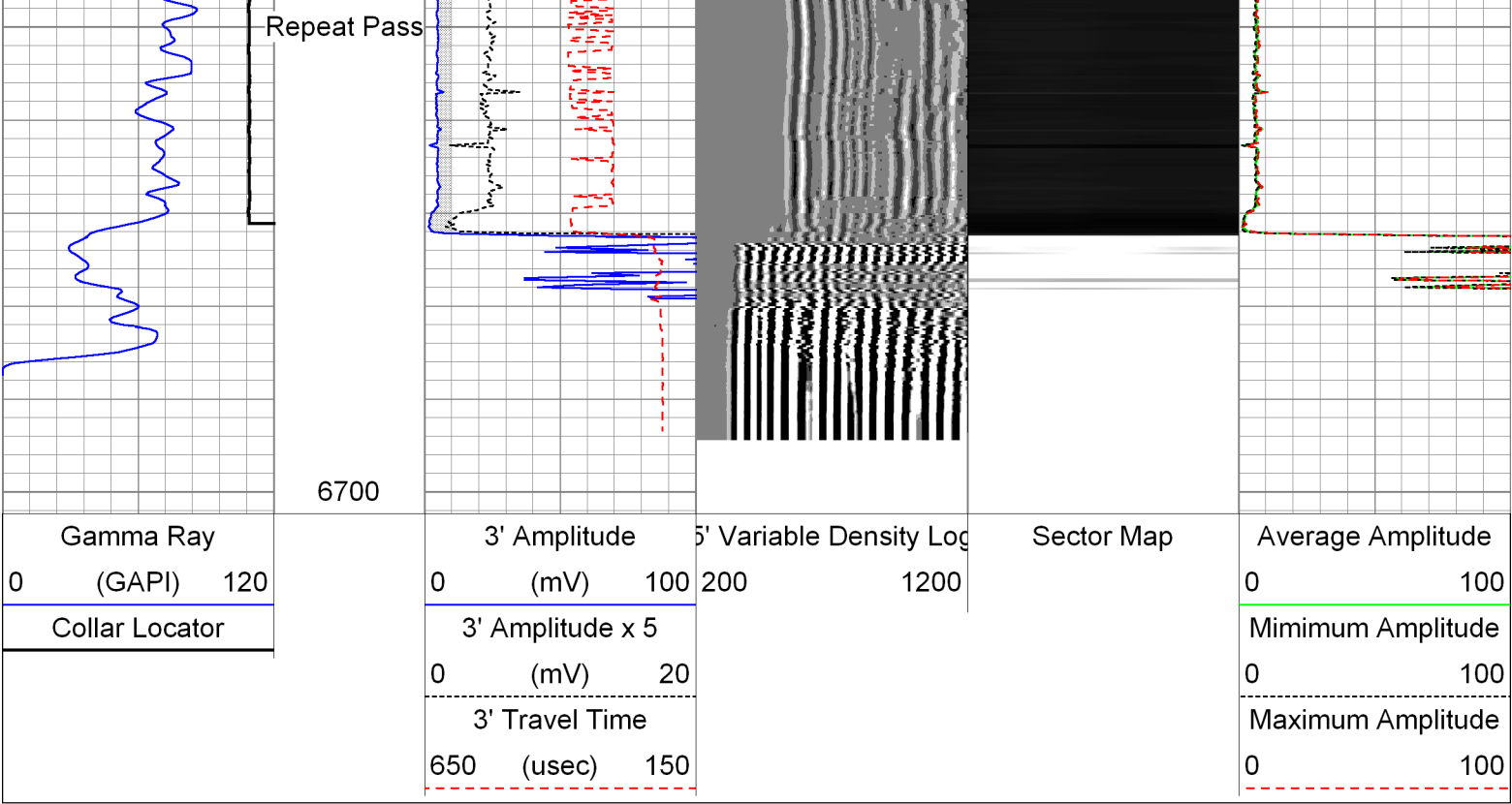




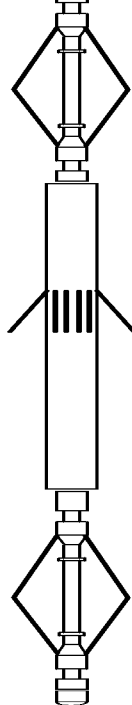
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Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
Collar Locator		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0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





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	23.67		AES 1-7/16" Cablehead	1.08	1.44	1.00
			AGS-001 (219135) Adaptor GO to Sondex	0.21	1.69	1.00
			XTU-002 (219135) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			PGR-020 (10013902) Production Gamma Ray	1.93	1.69	9.50
			PRC-057 (1101) 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
WVF3FT	15.85		RBT-004 (1066in7in) Radial Bond Tool (UW 3 1/8)	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		PRC-057 (1102) 2-3/4" 4-Arm Production Roller Centraliser	2.98	2.75	32.00
WVF5FT	14.85					
MIT	5.41		MIT-042 (10014703) 40 Multifinger Imaging Tool	4.54	2.75	61.10
TSTAMP	0.00		PRC-057 (1038) 2-3/4" 4-Arm Production Roller Centraliser BUL-006 (219228) Bullnose Terminator	2.98 0.22	2.75 1.69	32.00 1.20
Dataset: 0512338549_anadarko_paragon 25n-31hz_02-22-14_mit_rbl.db: field/well/run1/main Total Length: 27.97 ft Total Weight: 316.30 lb O.D.: 3.13 in						

Calibration Report	
Database File:	0512338549_anadarko_paragon 25n-31hz_02-22-14_mit_rbl.db
Dataset Pathname:	main
Dataset Creation:	Sat Feb 22 08:23:56 2014 by Log Sondex V7.03

Multi-finger Imaging Tool Calibration Report	
Serial Number:	10014703
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 Feb 22 07:15:18 2014			
Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1200	343.0	1543	400.0	1943	379.0	2322
Finger 02:	1138	356.0	1494	413.0	1907	405.0	2312
Finger 03:	1168	355.0	1523	400.0	1923	394.0	2317
Finger 04:	1106	359.0	1465	419.0	1884	413.0	2297
Finger 05:	938	329.0	1267	366.0	1633	379.0	2012
Finger 06:	1146	379.0	1525	403.0	1928	413.0	2341
Finger 07:	1160	382.0	1551	400.0	1941	400.0	2350

Finger 07:	1169	382.0	1551	390.0	1941	409.0	2350
Finger 08:	1121	393.0	1514	404.0	1918	427.0	2345
Finger 09:	1199	393.0	1592	383.0	1975	400.0	2375
Finger 10:	1166	394.0	1560	384.0	1944	410.0	2354
Finger 11:	1142	397.0	1539	385.0	1924	422.0	2346
Finger 12:	1229	394.0	1623	360.0	1983	386.0	2369
Finger 13:	1154	397.0	1551	379.0	1930	425.0	2355
Finger 14:	1119	410.0	1529	391.0	1920	435.0	2355
Finger 15:	1098	410.0	1508	396.0	1904	441.0	2345
Finger 16:	1145	400.0	1545	380.0	1925	430.0	2355
Finger 17:	1173	391.0	1564	366.0	1930	414.0	2344
Finger 18:	1186	383.0	1569	364.0	1933	411.0	2344
Finger 19:	1160	391.0	1551	375.0	1926	423.0	2349
Finger 20:	1051	356.0	1407	365.0	1772	432.0	2204
Finger 21:	1158	372.0	1530	370.0	1900	411.0	2311
Finger 22:	1152	371.0	1523	380.0	1903	416.0	2319
Finger 23:	1230	344.0	1574	355.0	1929	386.0	2315
Finger 24:	1135	364.0	1499	392.0	1891	418.0	2309
Finger 25:	1136	352.0	1488	390.0	1878	417.0	2295
Finger 26:	1163	346.0	1509	385.0	1894	398.0	2292
Finger 27:	1177	330.0	1507	386.0	1893	392.0	2285
Finger 28:	1130	338.0	1468	397.0	1865	408.0	2273
Finger 29:	1118	339.0	1457	404.0	1861	411.0	2272
Finger 30:	1122	335.0	1457	410.0	1867	410.0	2277
Finger 31:	1160	327.0	1487	394.0	1881	386.0	2267
Finger 32:	1128	329.0	1457	410.0	1867	404.0	2271
Finger 33:	1125	327.0	1452	408.0	1860	398.0	2258
Finger 34:	1108	328.0	1436	418.0	1854	407.0	2261
Finger 35:	1158	314.0	1472	391.0	1863	382.0	2245
Finger 36:	1121	328.0	1449	415.0	1864	398.0	2262
Finger 37:	1216	316.0	1532	385.0	1917	366.0	2283
Finger 38:	1185	327.0	1512	398.0	1910	381.0	2291
Finger 39:	1151	333.0	1484	411.0	1895	396.0	2291
Finger 40:	1091	349.0	1440	429.0	1869	416.0	2285

Segmented Cement Bond Log Calibration Report						
Serial Number:		1066in7in				
Tool Model:		004				
Calibration Casing Diameter:		7.000	in			
Calibration Depth:		214.382	ft			
Master Calibration, performed Sat Feb 22 07:34:41 2014:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.001	0.690	0.800	62.165	88.721	0.915
5FT	-0.006	0.664	0.800	62.165	91.599	1.359
S1	-0.001	0.658	0.000	100.000	151.735	0.185
S2	-0.003	0.674	0.000	100.000	147.615	0.481
S3	-0.002	0.695	0.000	100.000	143.516	0.319
S4	-0.004	0.715	0.000	100.000	139.228	0.500
S5	-0.001	0.718	0.000	100.000	139.032	0.175
S6	-0.002	0.714	0.000	100.000	139.693	0.326
S7	-0.001	0.701	0.000	100.000	142.388	0.174
S8	-0.001	0.674	0.000	100.000	147.972	0.217
Gamma Ray Calibration Report						
Serial Number:		10013902				
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	Paragon 25N-31HZ
	Field	Wattenberg
	County	Weld
	State	Colorado