



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company				Kerr-McGee Oil & Gas Onshore, L.P.			
Well				Badding 26N-26HZ			
Field				Wattenberg			
County				Weld			
State				Colorado			
Location:				API # : 05-123-38336			
Permanent Datum				SHL: 350' FSL 626' FEL			
Log Measured From				Lat/Long: 40.103004/-104.737106			
Drilling Measured From				SEC 26 TWP 2N RGE 66W			
Ground Level				Elevation 5116'			
Kelly Bushing				14 FT			
Kelly Bushing				Elevation 5116'			
K.B. 5130'				D.F. ---			
G.L. 5116'				Gauge Run Set Plug MIT			
Date				27-March-2014			
Run Number				One			
Depth Driller				12,743 FT			
Depth Logger				6850 FT			
Bottom Logged Interval				6845 FT			
Top Log Interval				Surface			
Open Hole Size				9.625"			
Type Fluid				Water			
Density / Viscosity				8.34 LB/GAL			
Max. Recorded Temp.				230°F			
Estimated Cement Top				542 FT			
Time Well Ready				ROA			
Time Logger on Bottom				15:15			
Equipment Number				HD 0324			
Location				Fort Lupton, CO			
Recorded By				Brent Kalkwarf			
Witnessed By				Eric Wenzel			
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# J-55 Surface 1341 FT			
Intermediate #1							
Intermediate #2				7 26 P-110 Surface 7810 FT			
Liner				4 1/2 11.6 P-110 6769 FT 12,726 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

Radial Cement Bond Log - Caliper Log is the first recorded log in hole.
Depth reference to Casing Talley reported Liner Top at 6769 FT.
RCBL-MIT ran with 2200 PSI surface induced pressure.

Thank you for choosing FMC Technologies Completion Services, Inc.

Main Pass



Recorded At 2200 PSI Surface Induced Pressure

Database File: 0512338336_anadarko_badding 26n-26hz_03-27-14_mit_rbl.db

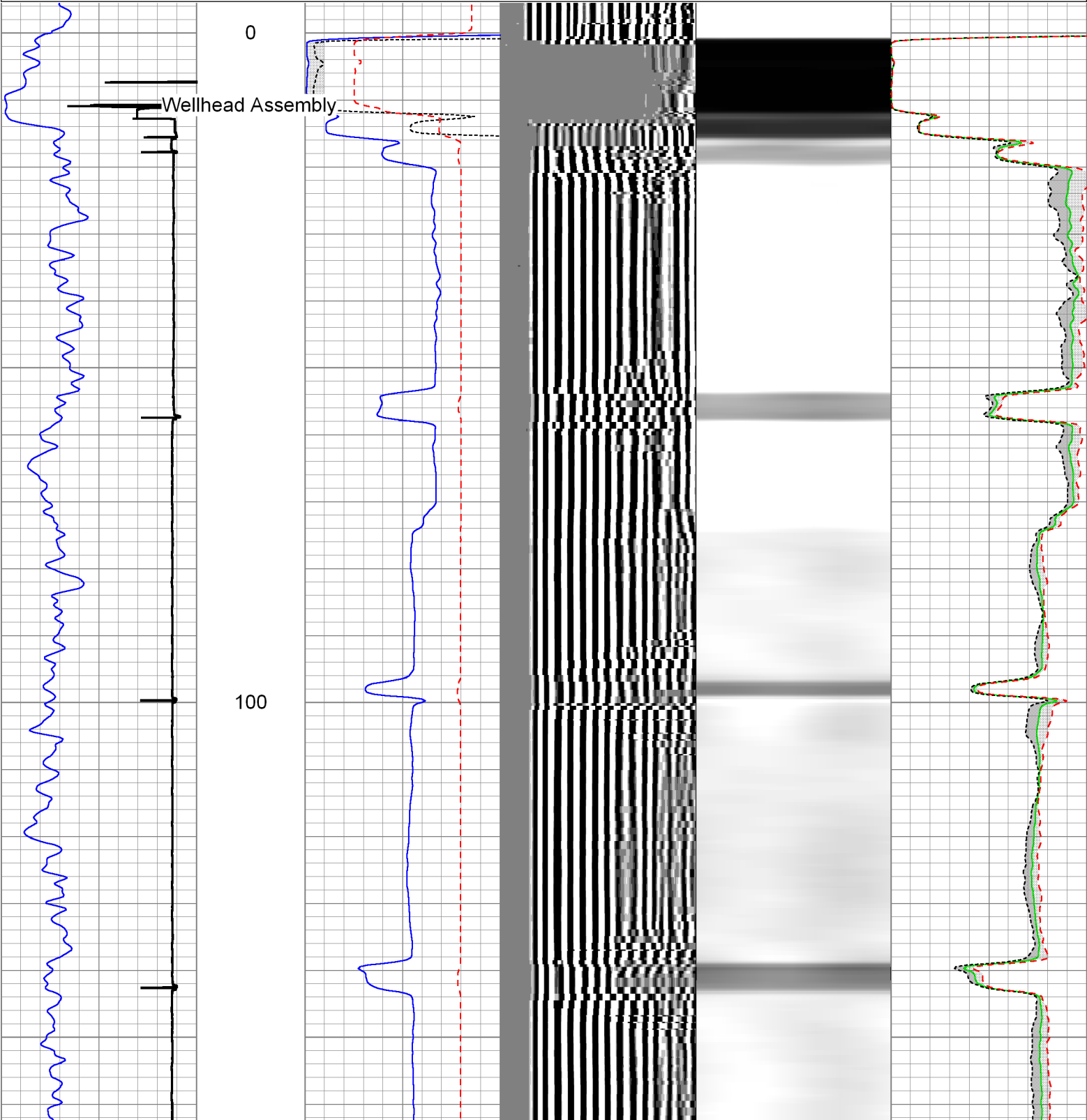
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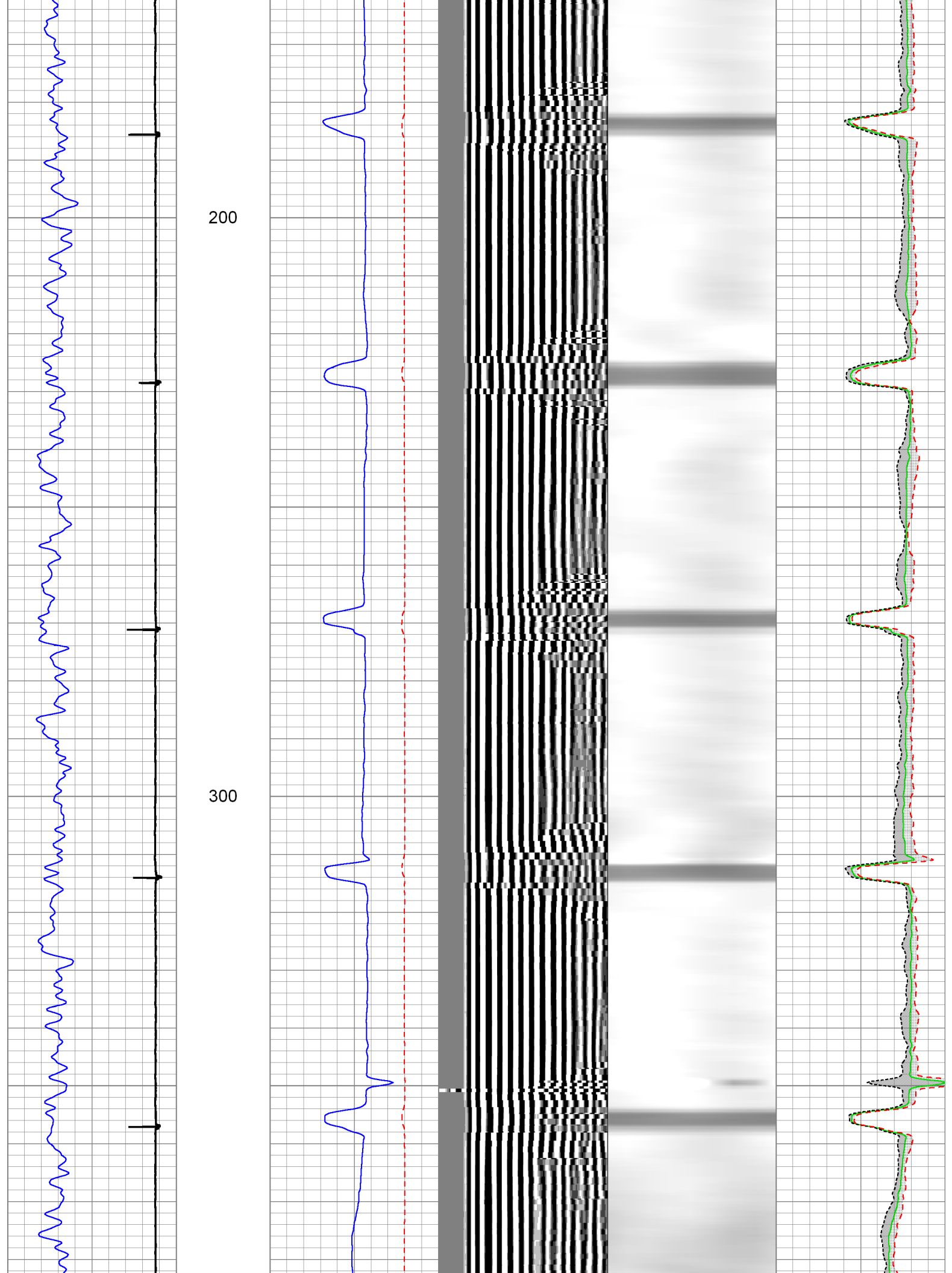
Presentation Format: rbt007

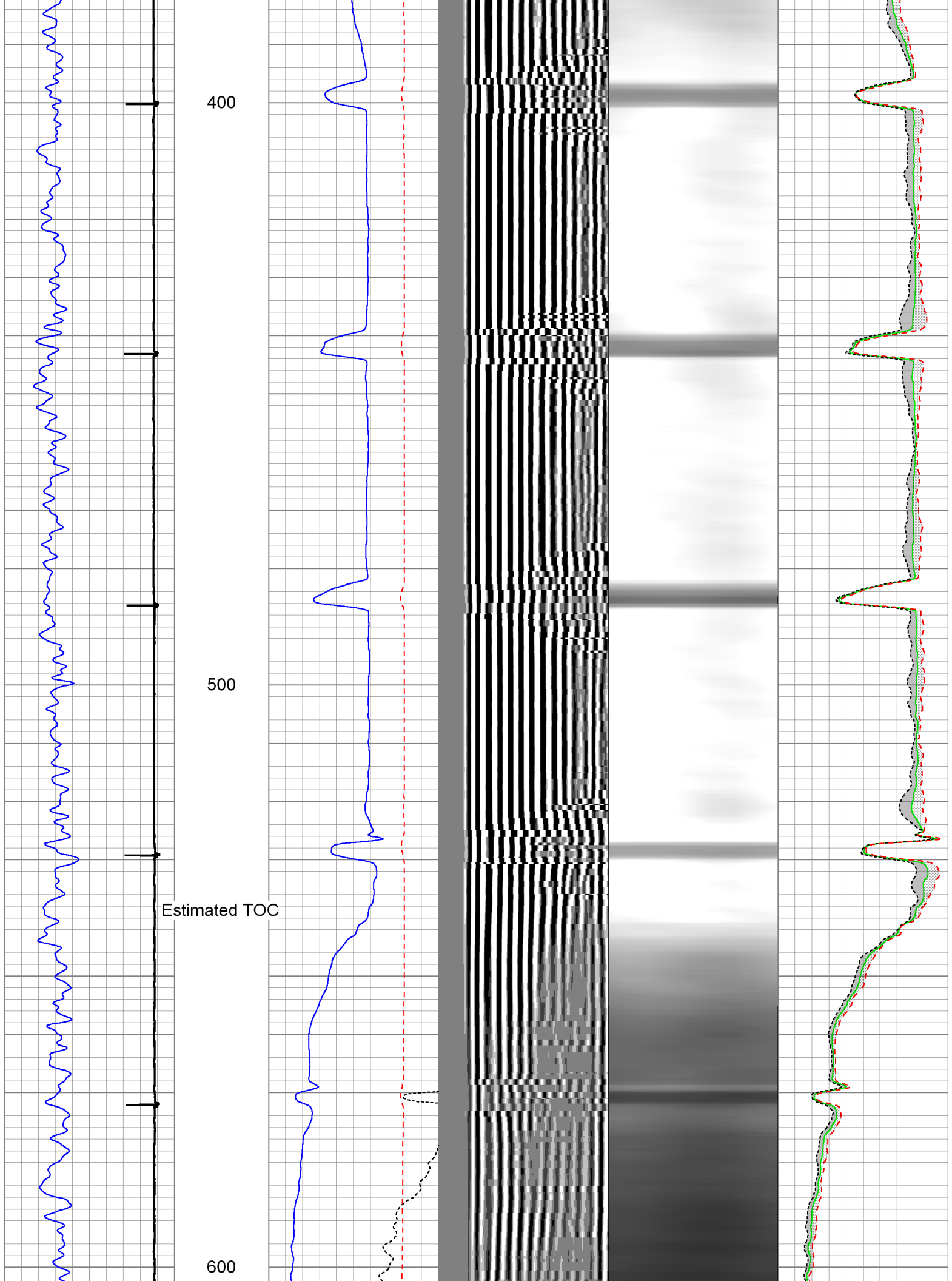
Dataset Creation: Thu Mar 27 14:29:56 2014 by Log Sondex V7.03

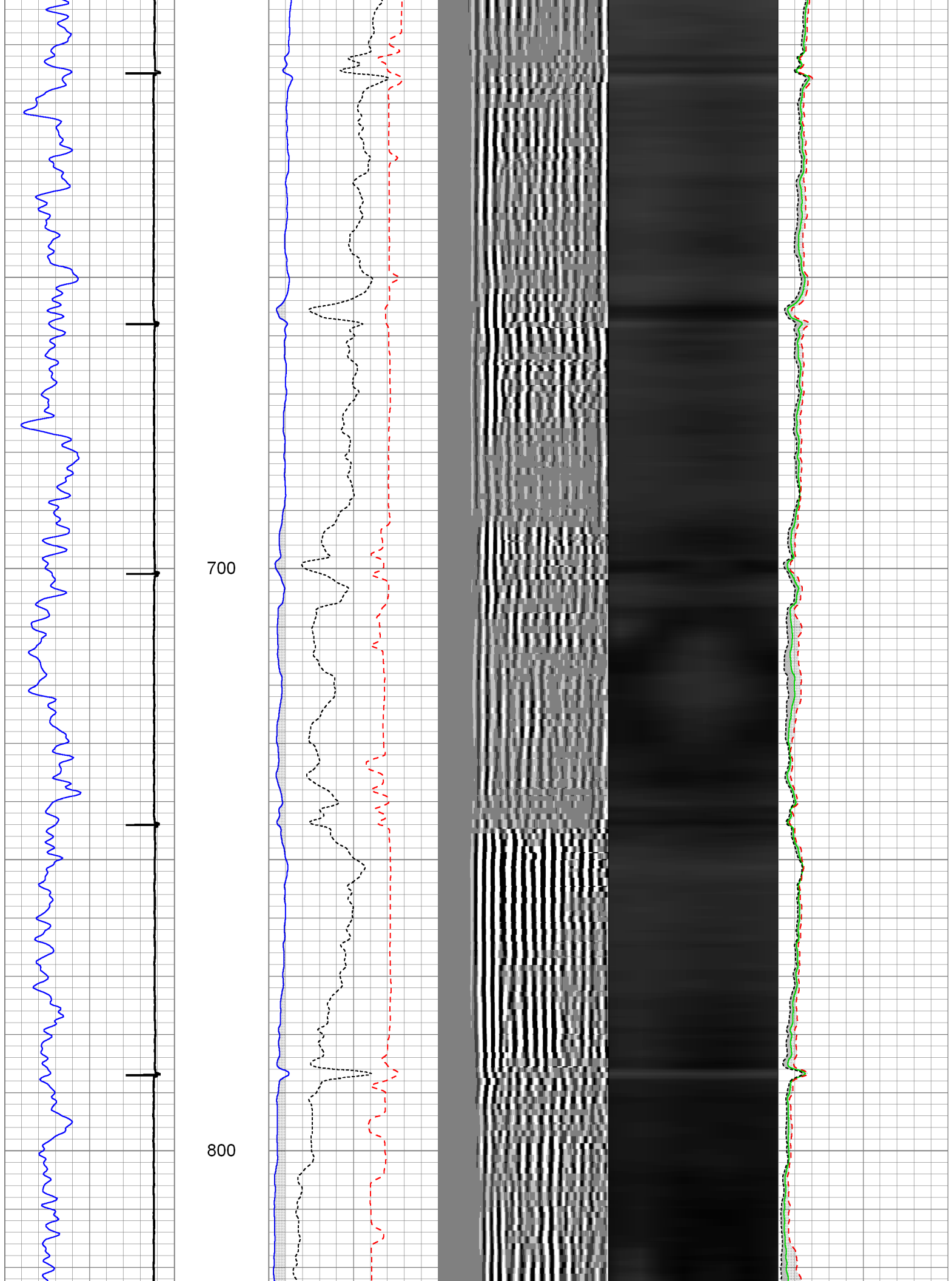
Charted by: Depth in Feet scaled 1:240

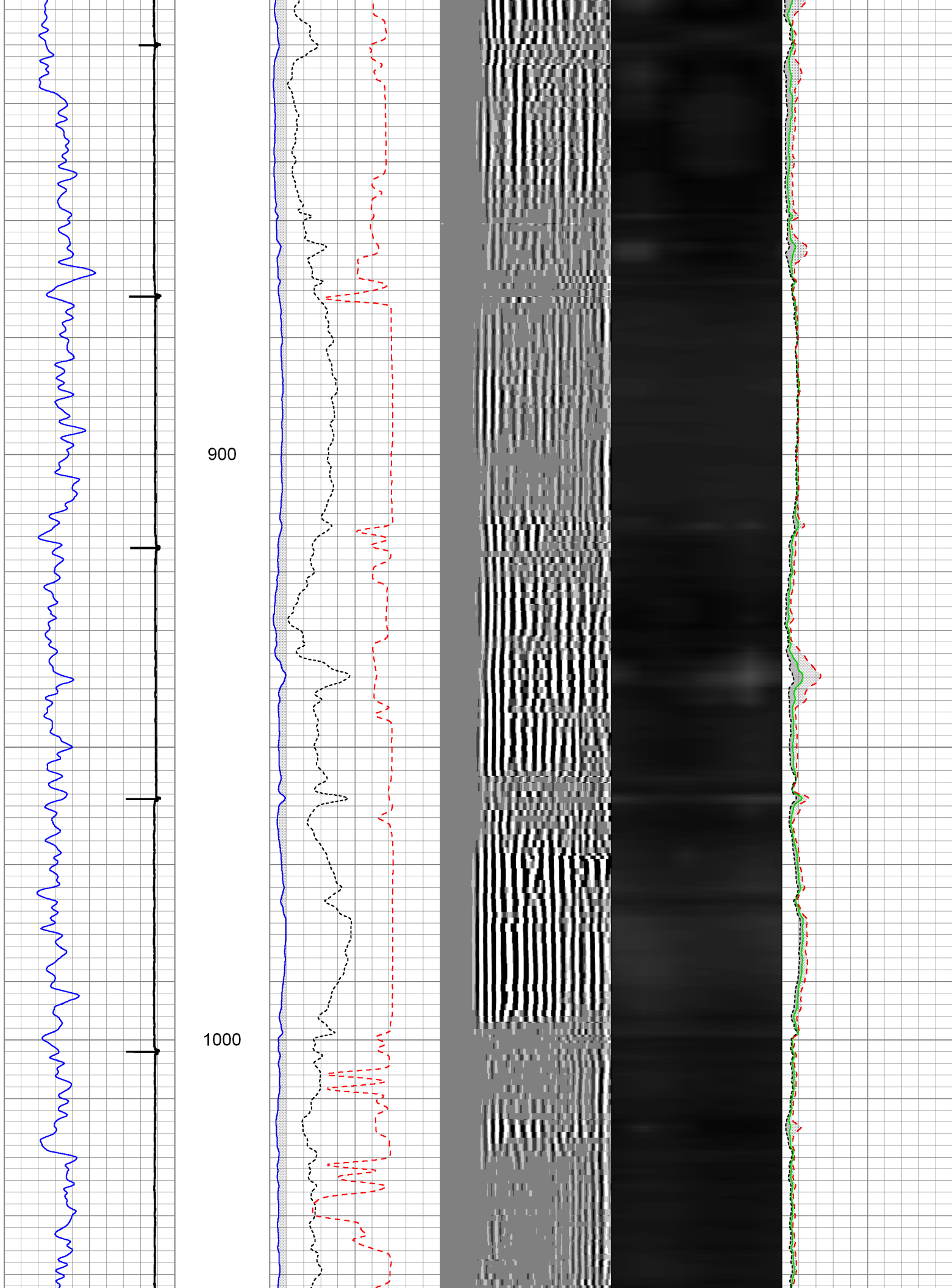
Gamma Ray			3' Amplitude		5' Variable Density Log	Sector Map	Average Amplitude		
0	(GAPI)	120	0	(mV)			100	0	100
Collar Locator			3' Amplitude x 5				Minimum Amplitude		
			0	(mV)			20	0	100
			3' Travel Time				Maximum Amplitude		
			650	(usec)			150	0	100

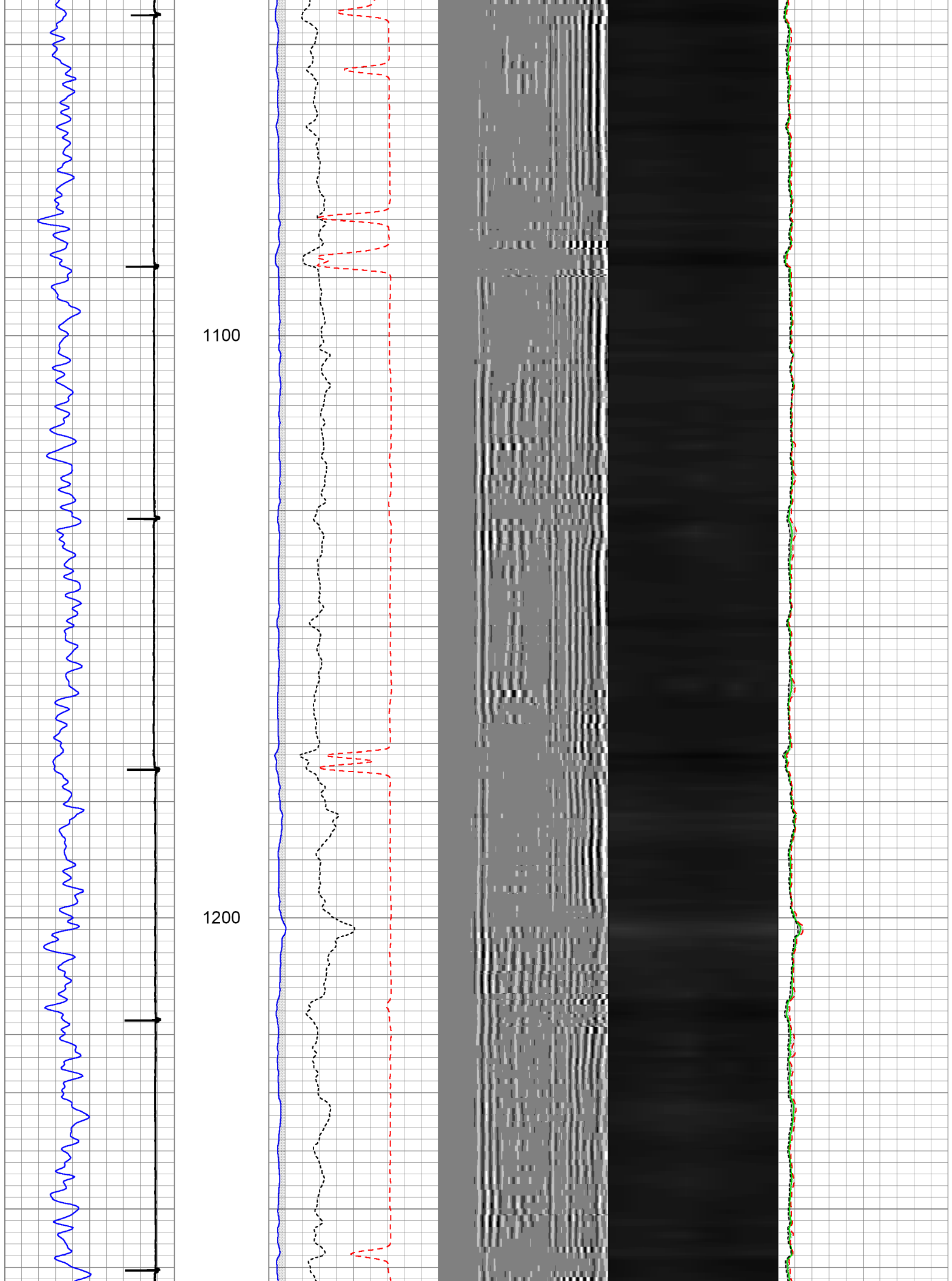


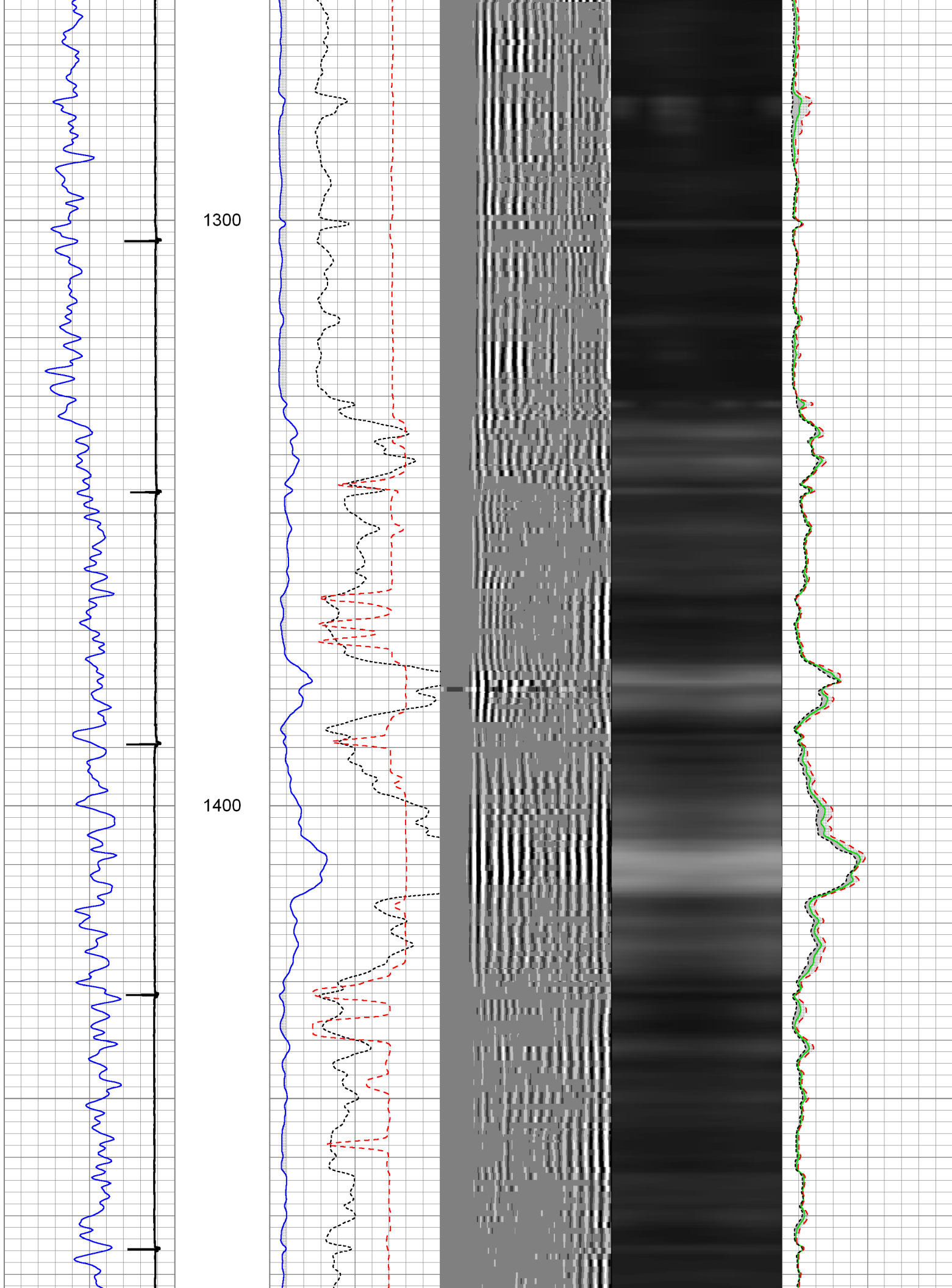


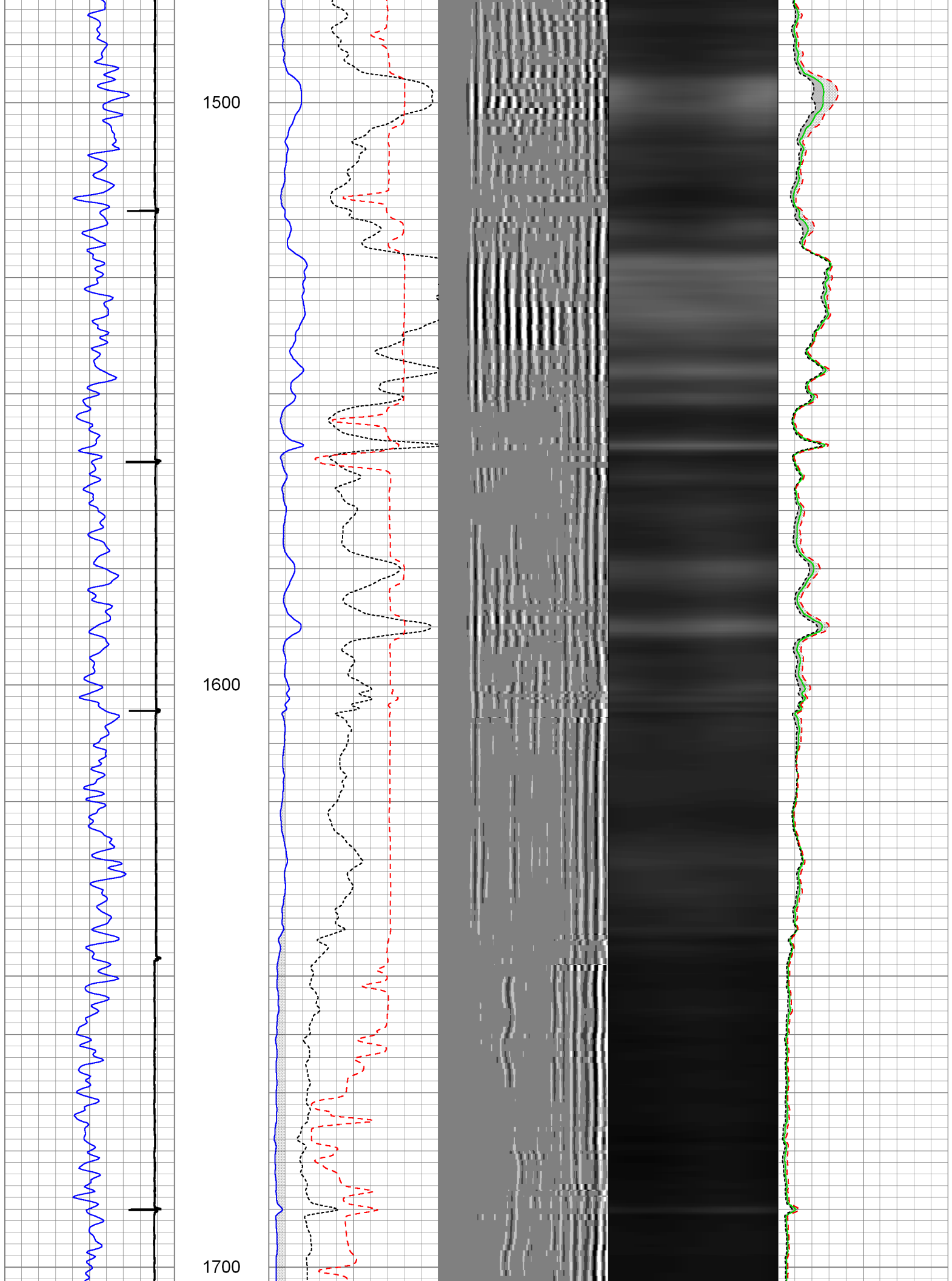


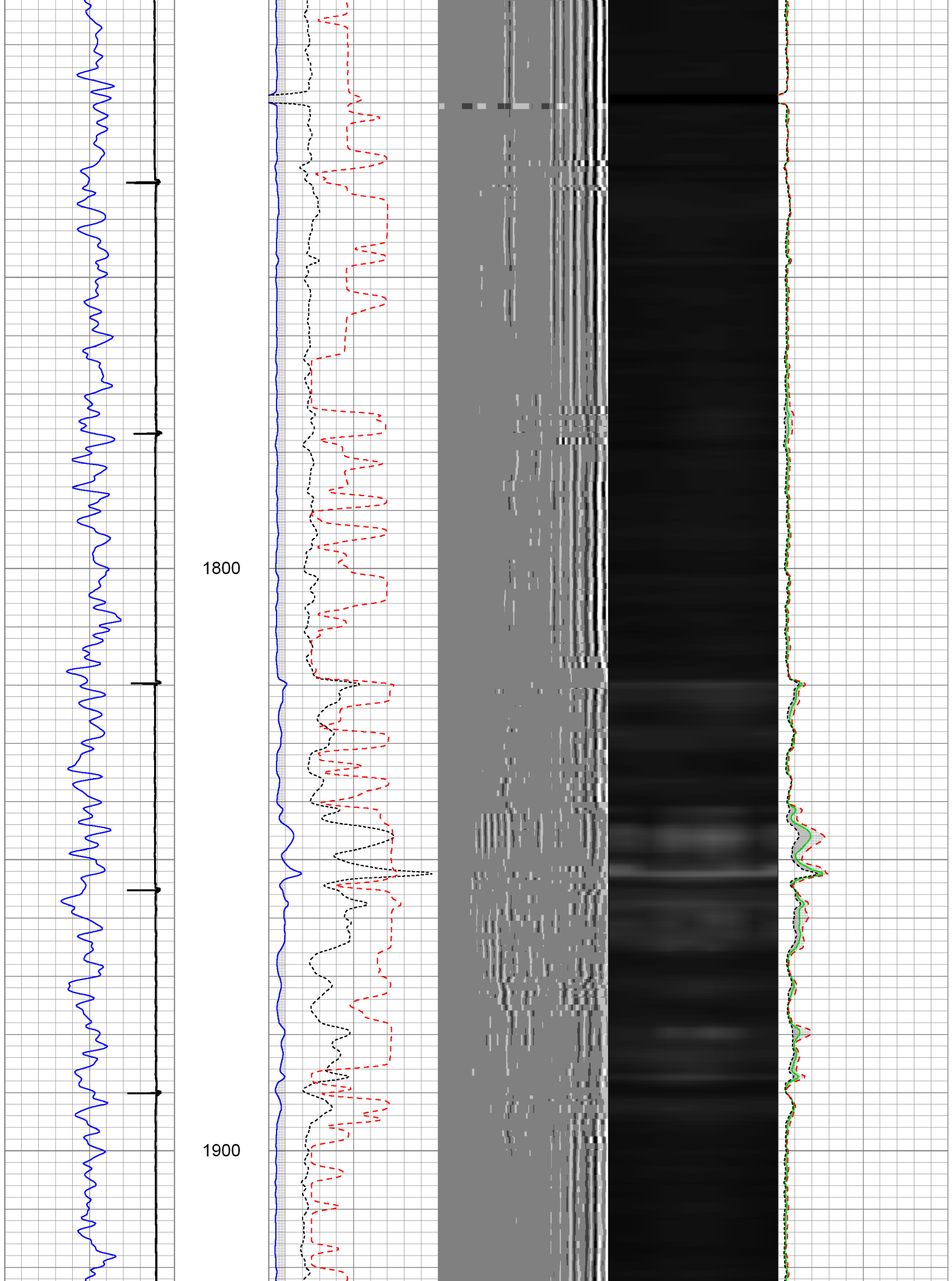


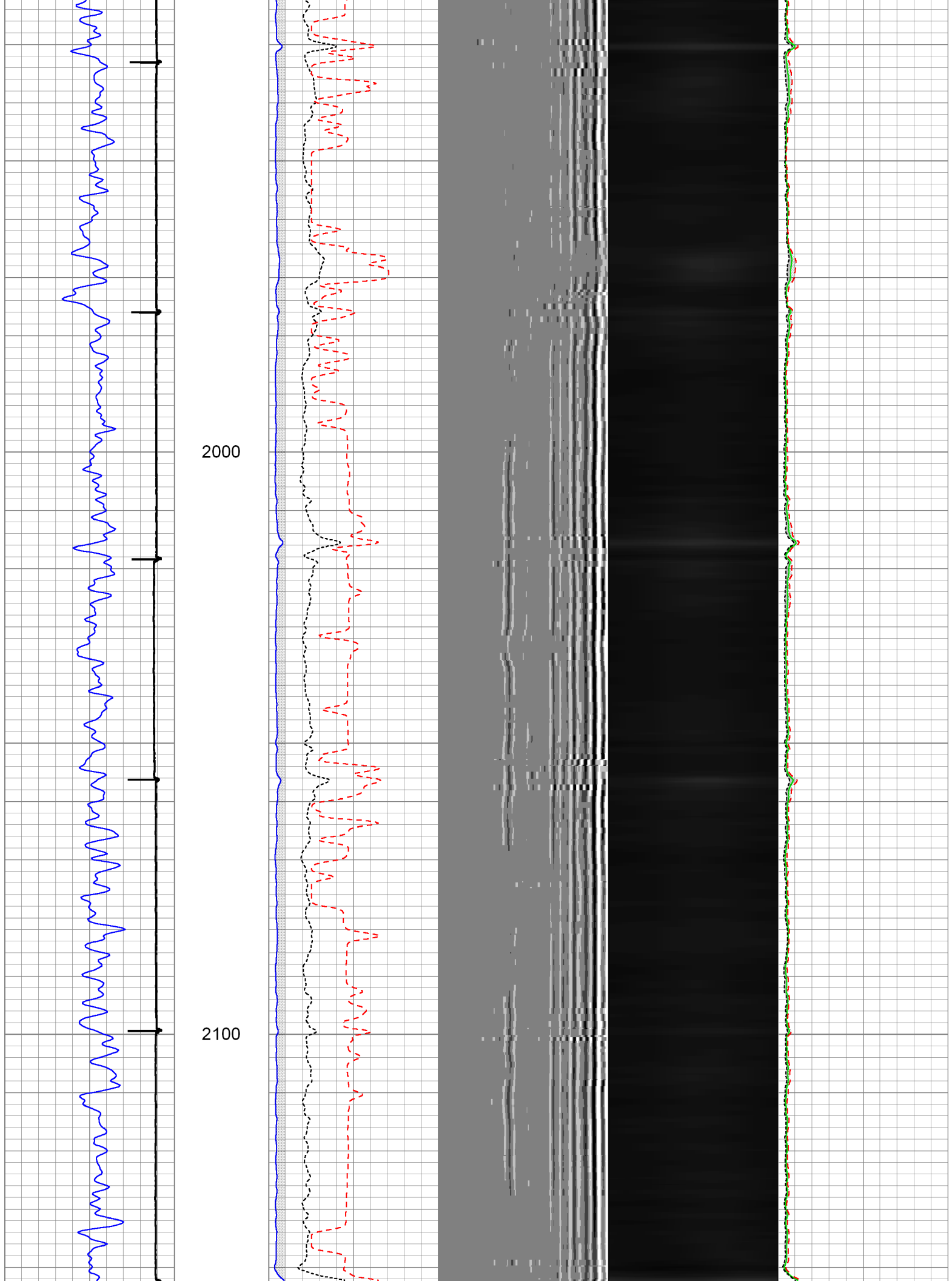


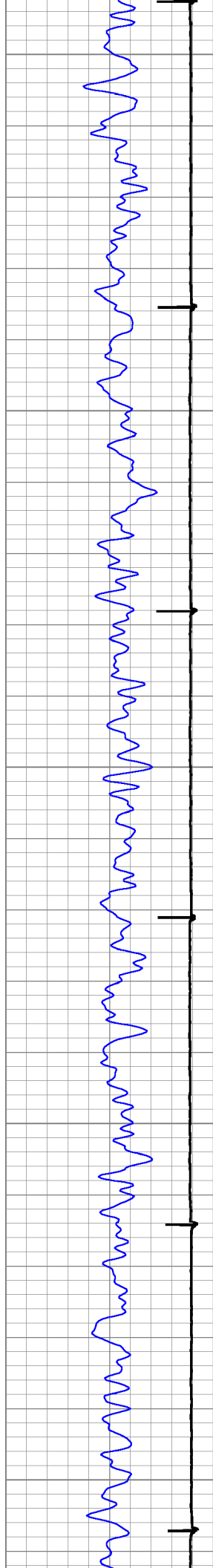






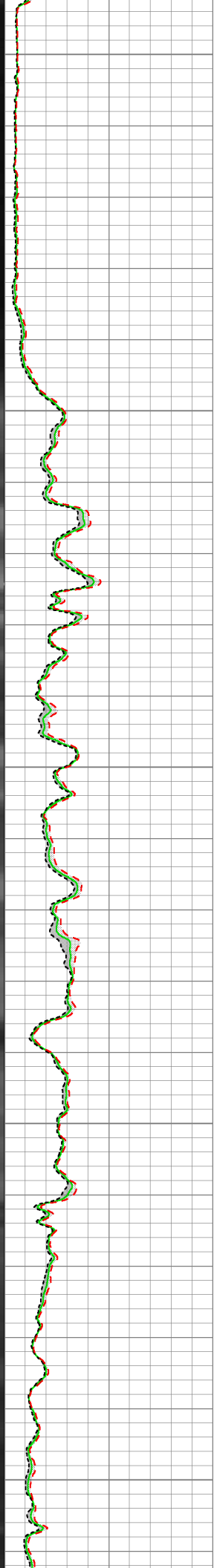
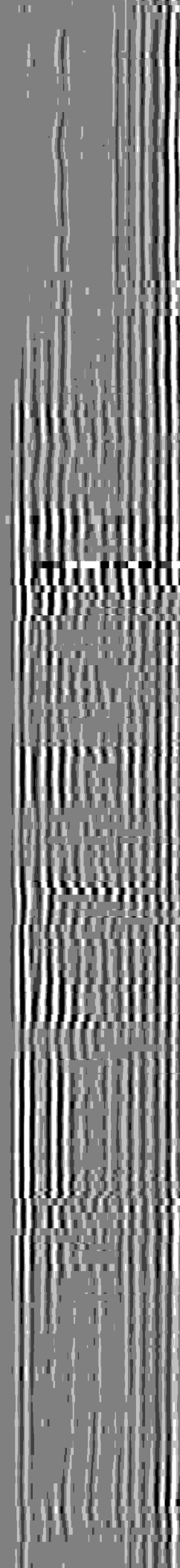
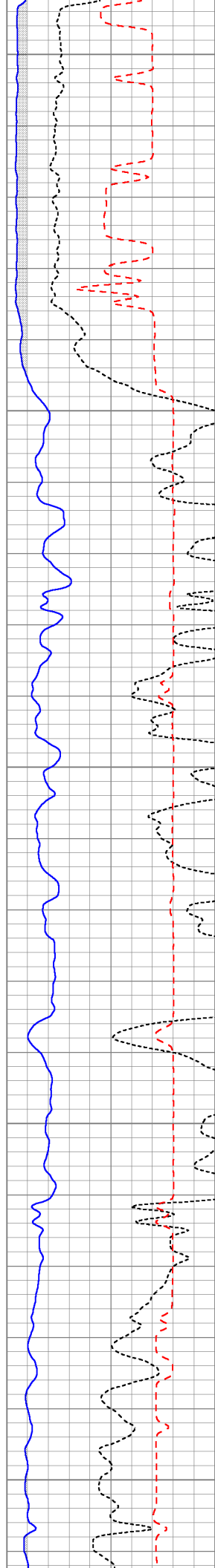


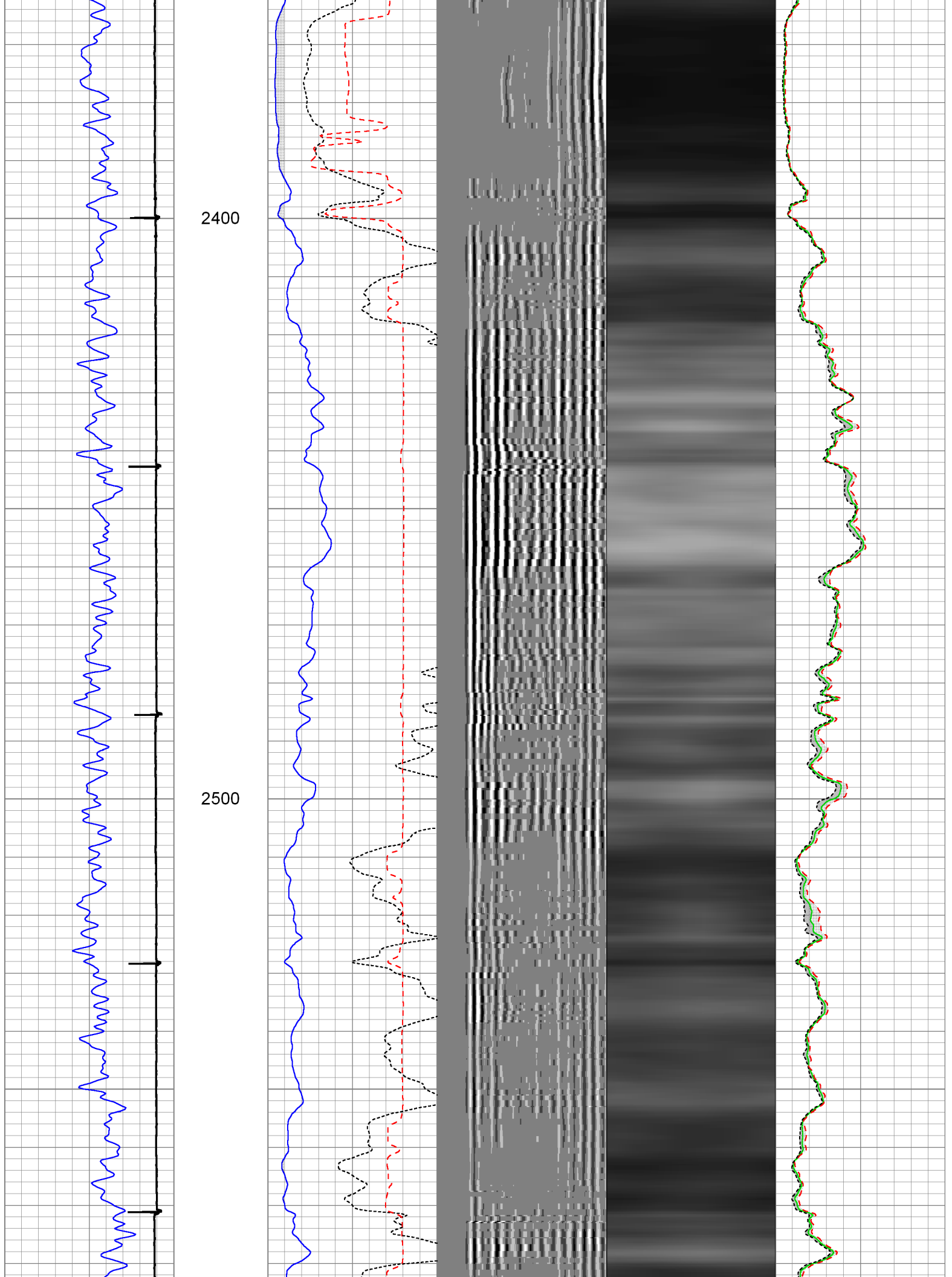




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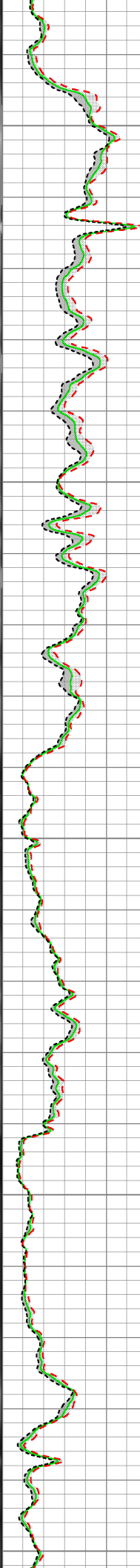
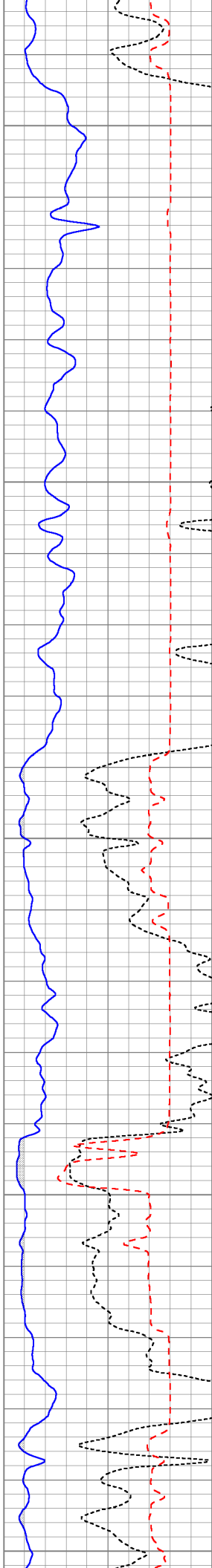
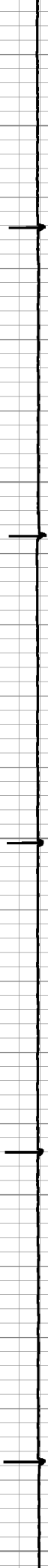


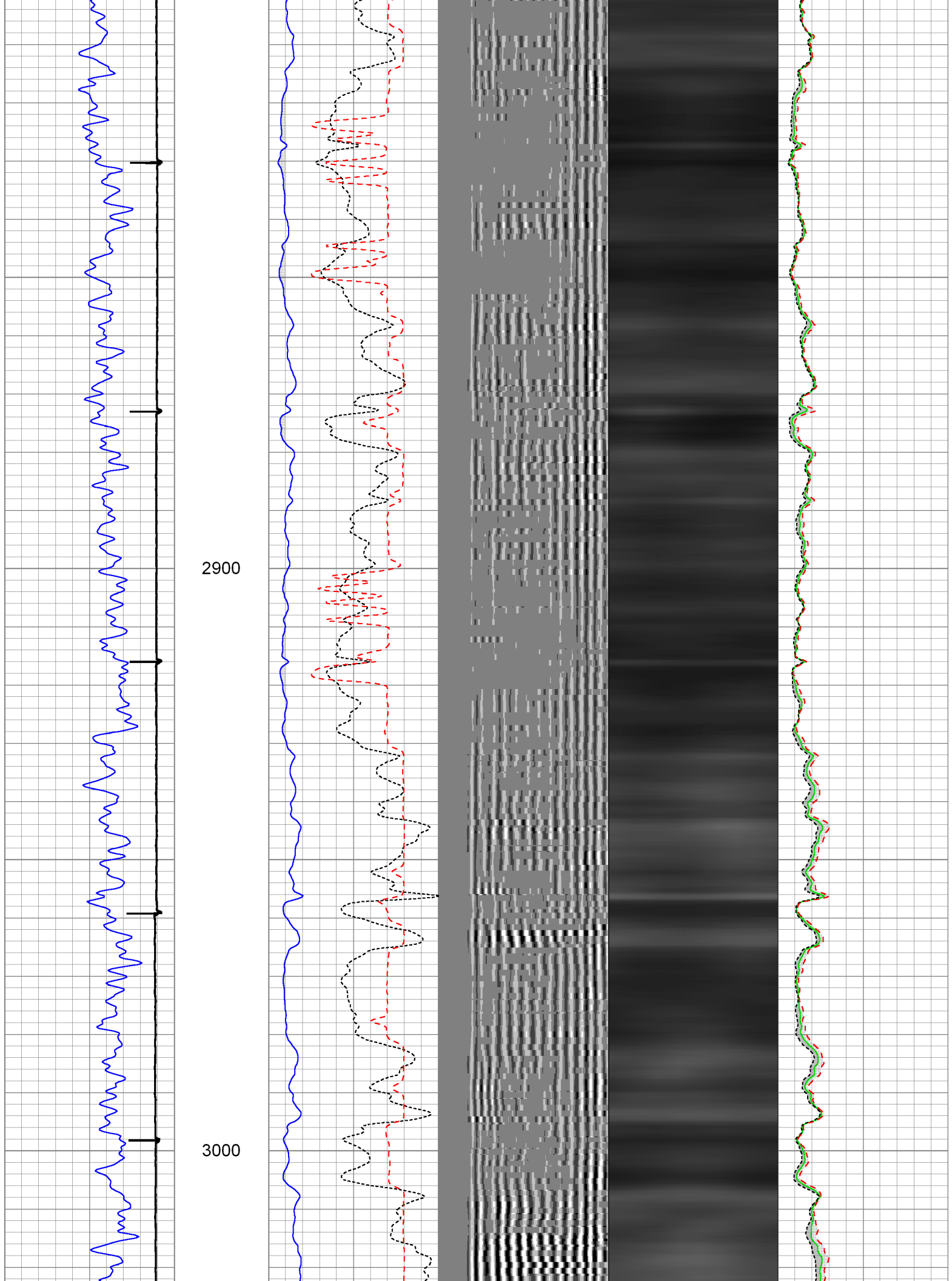


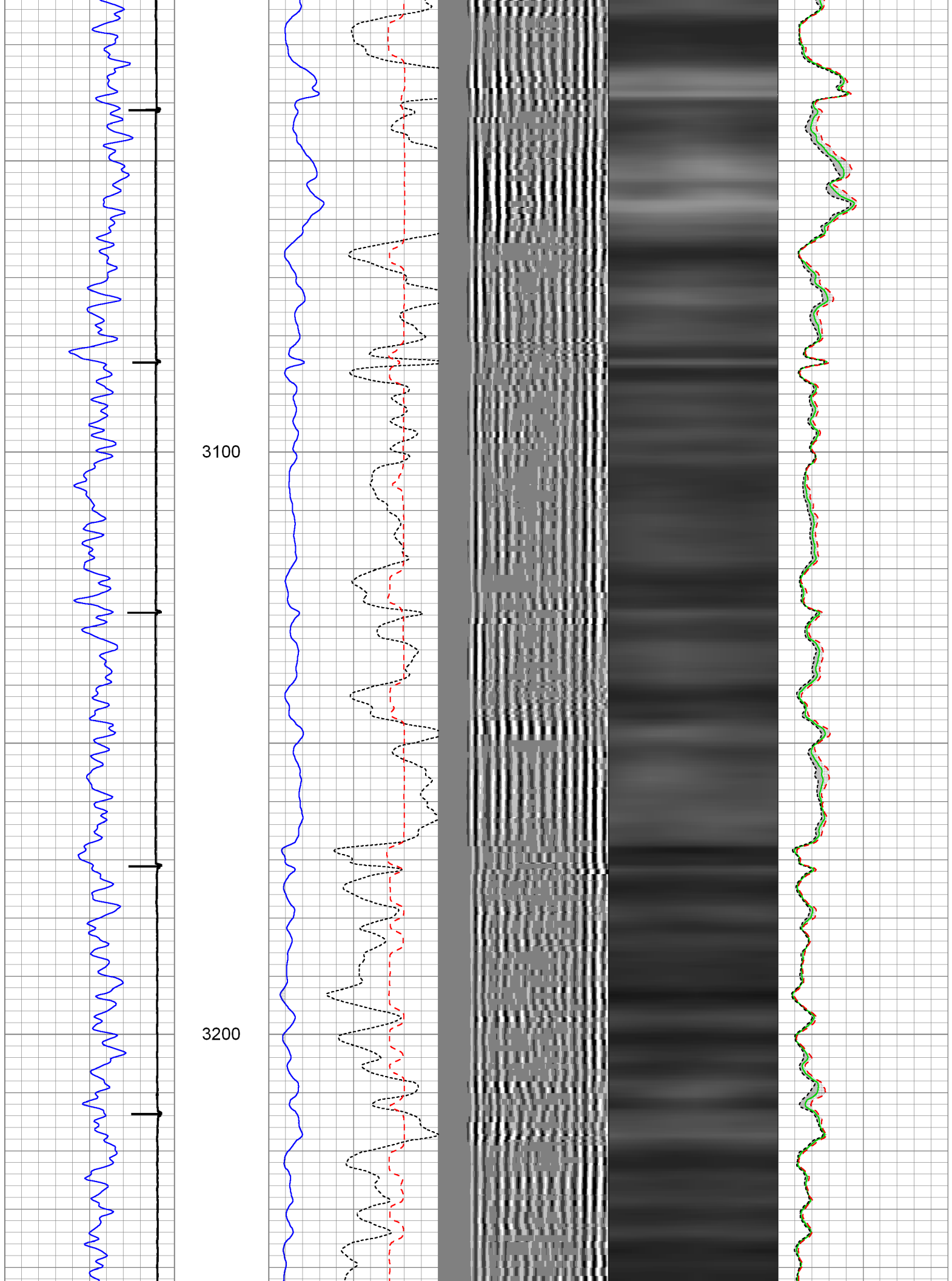
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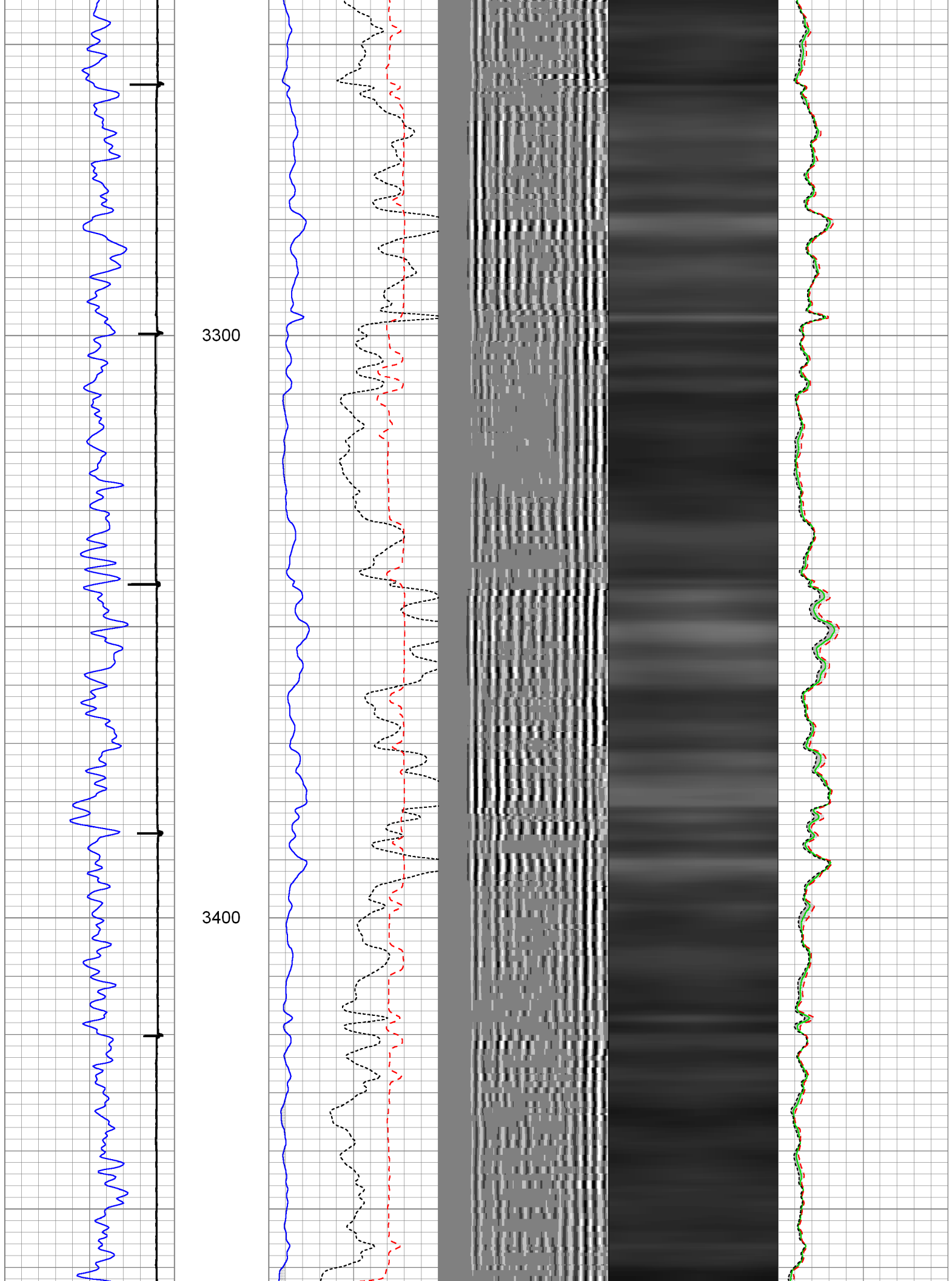
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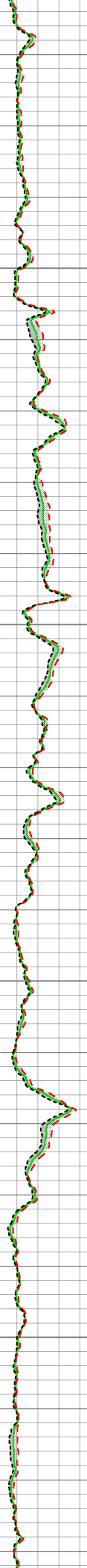
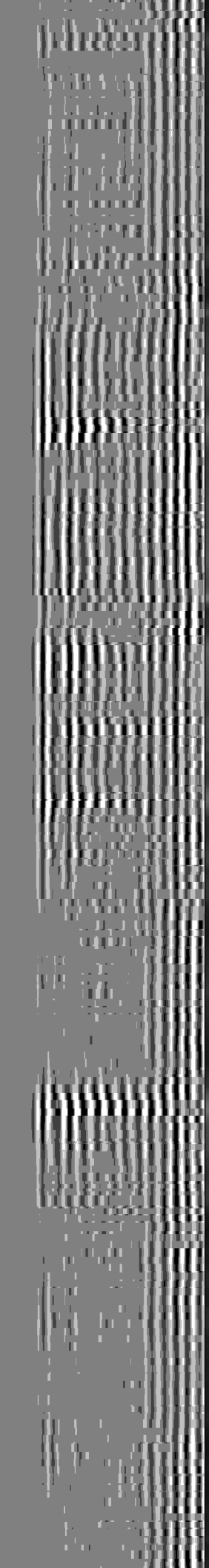
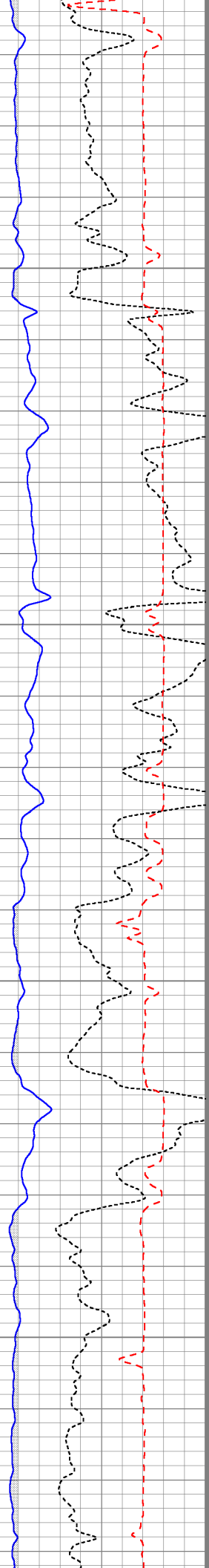
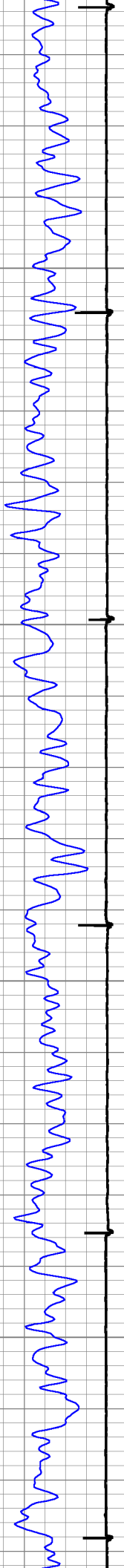






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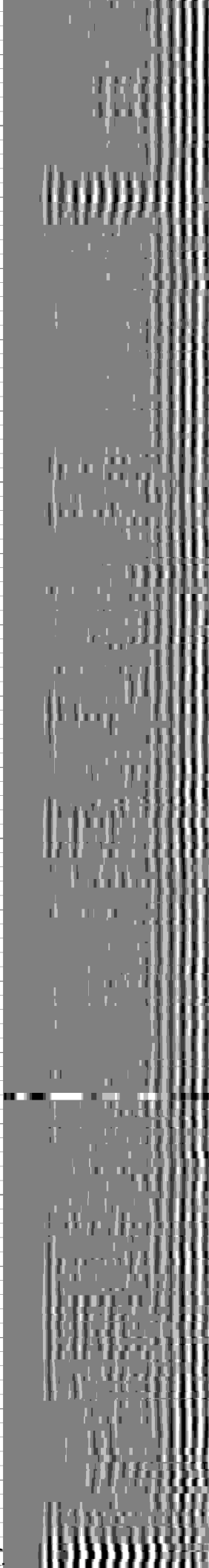
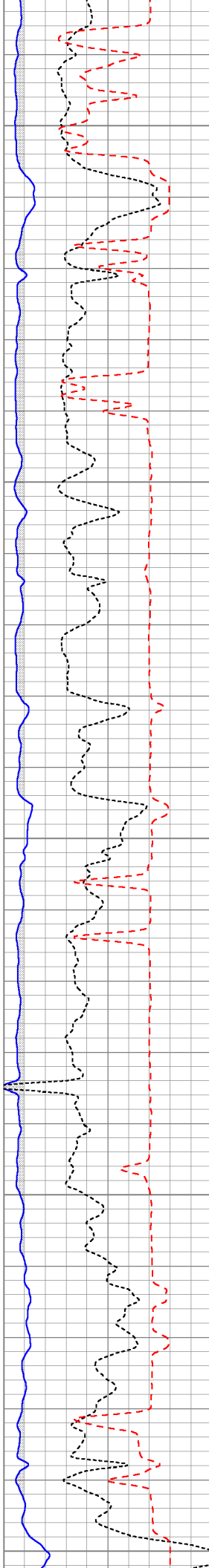
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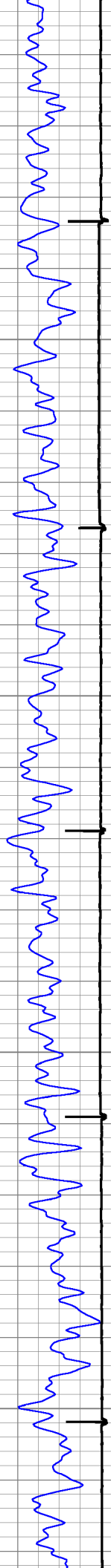


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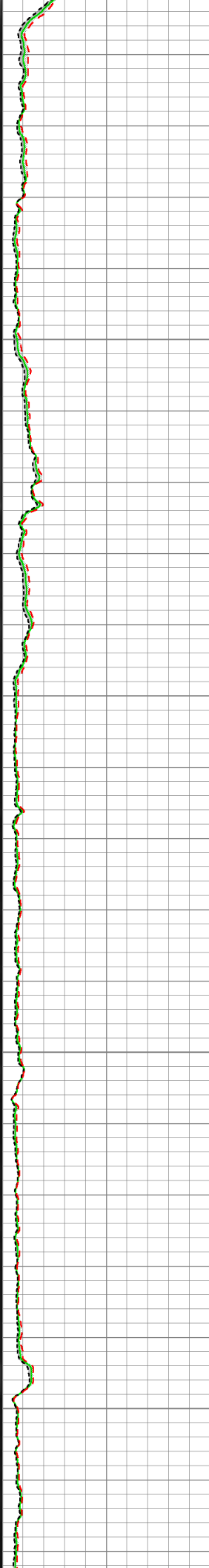
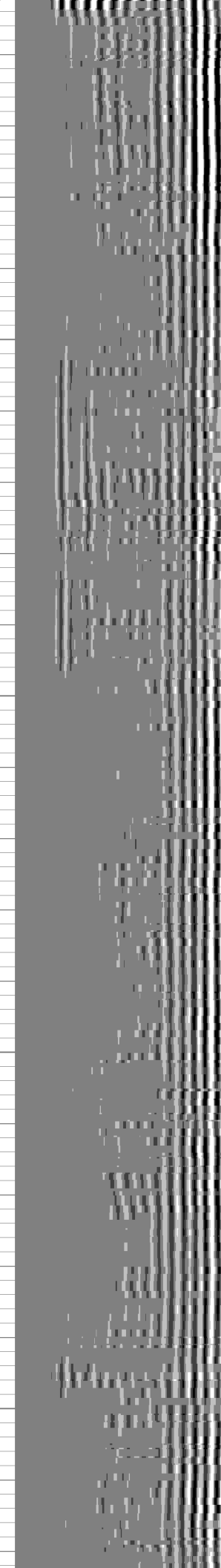
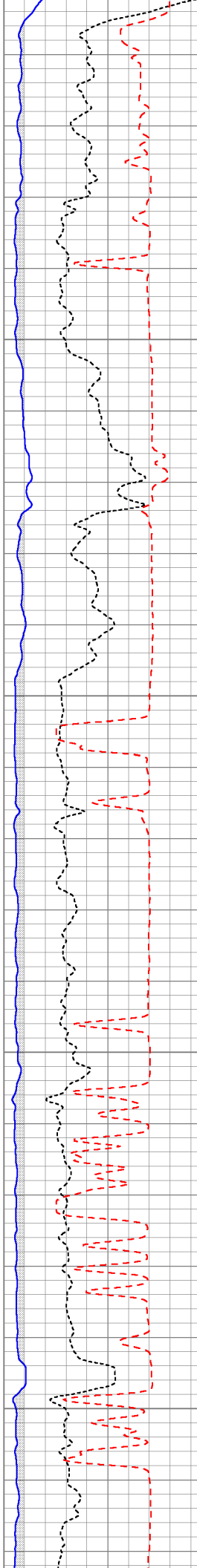
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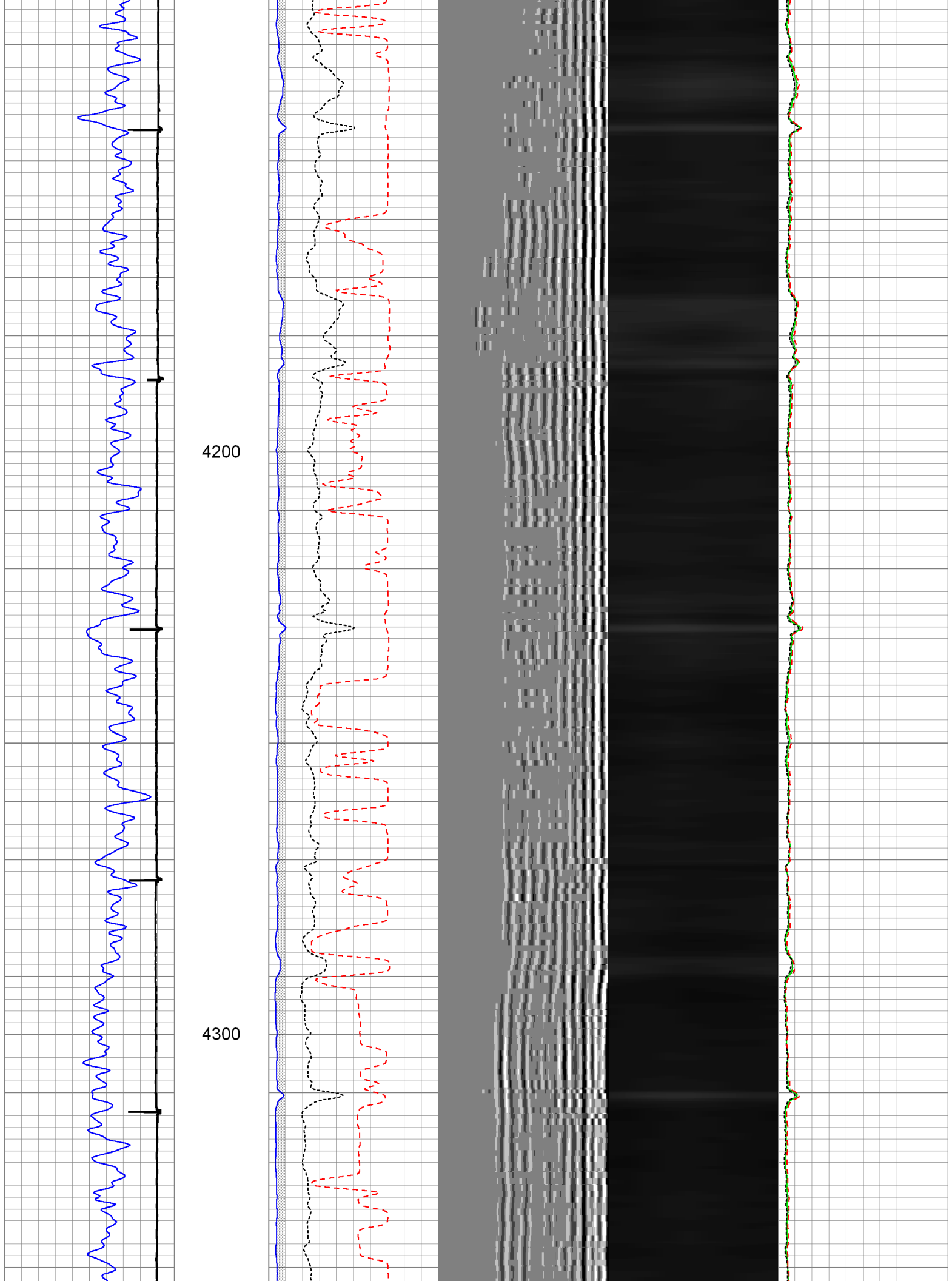


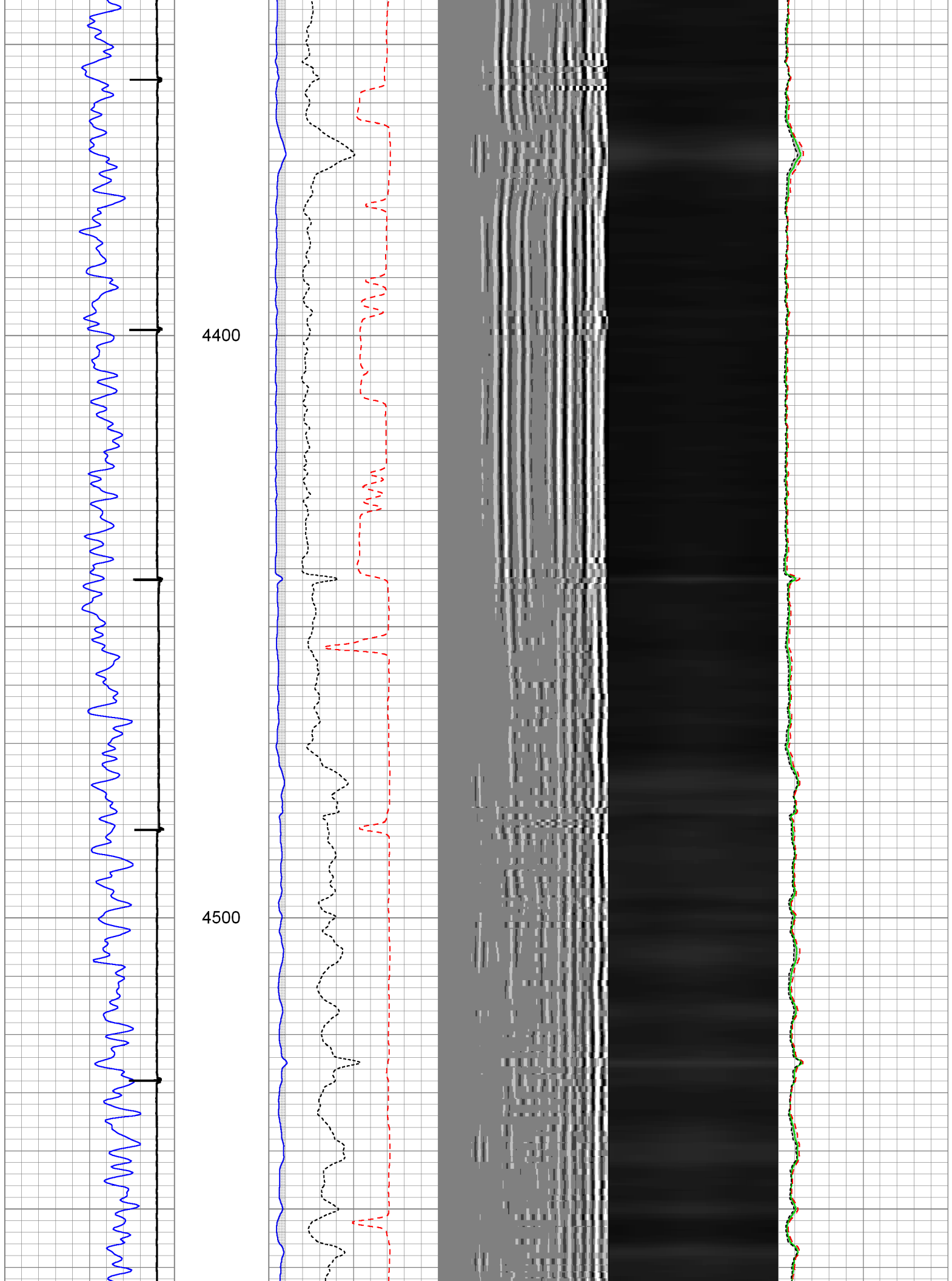


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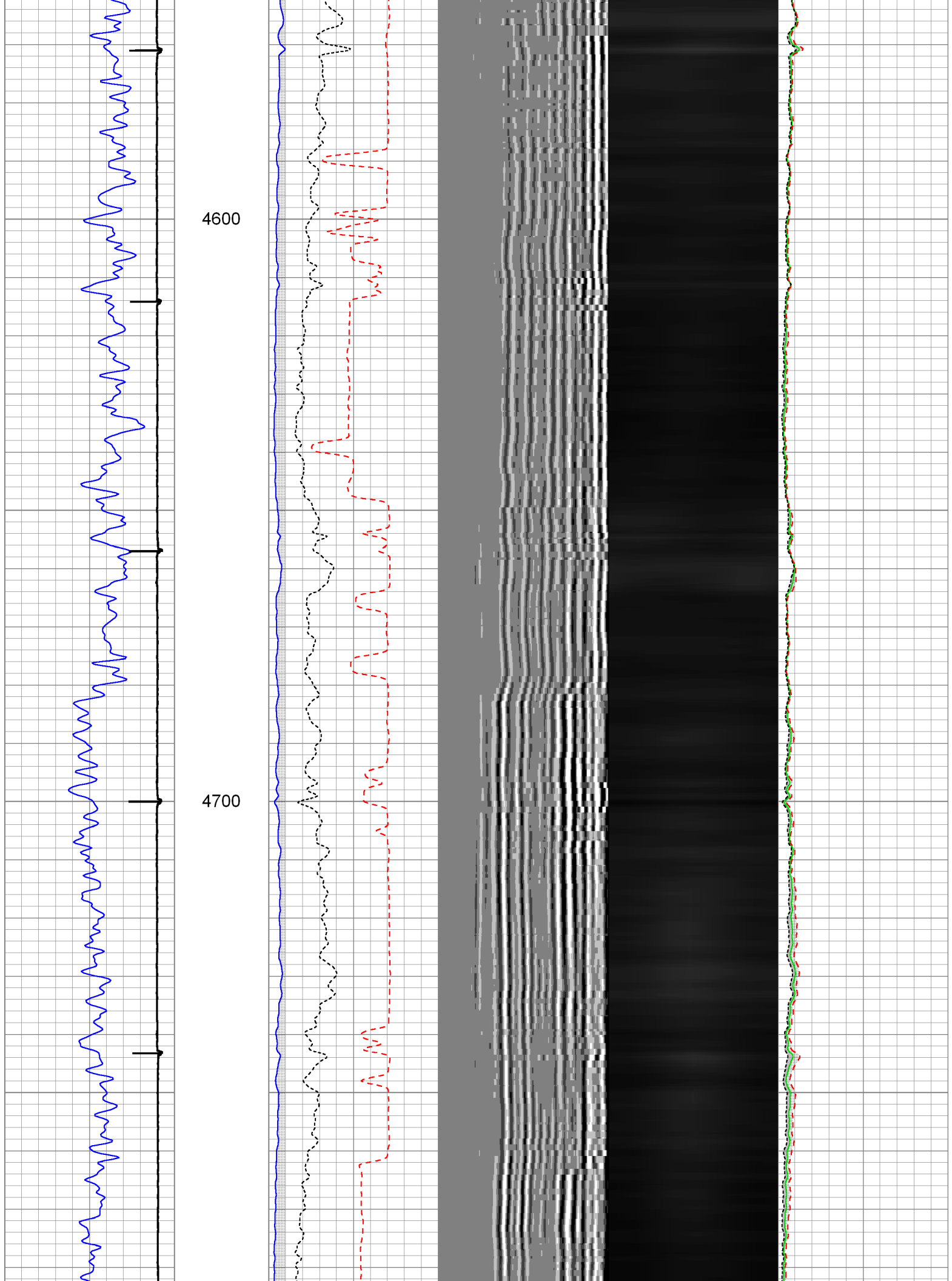






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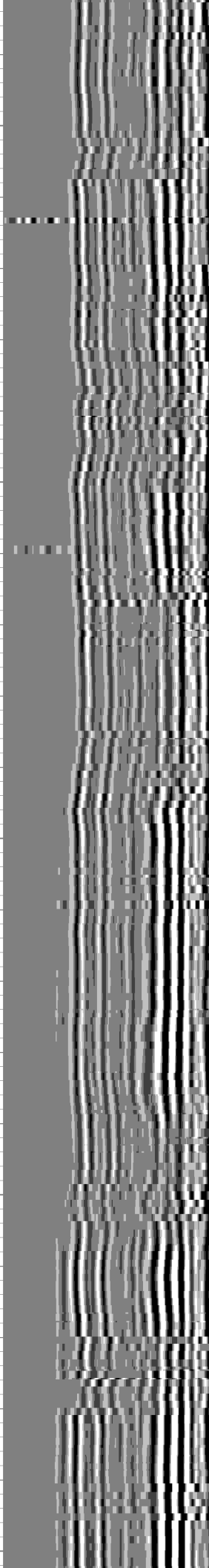
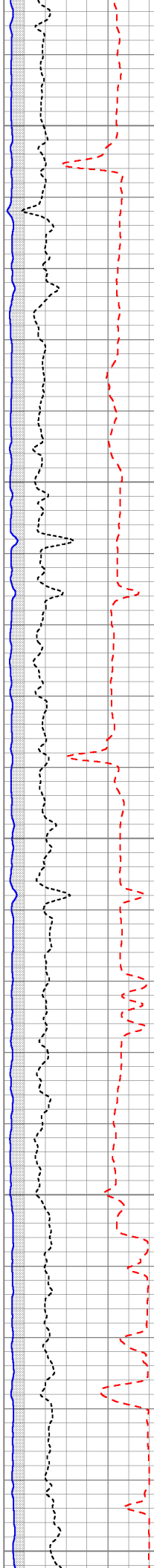
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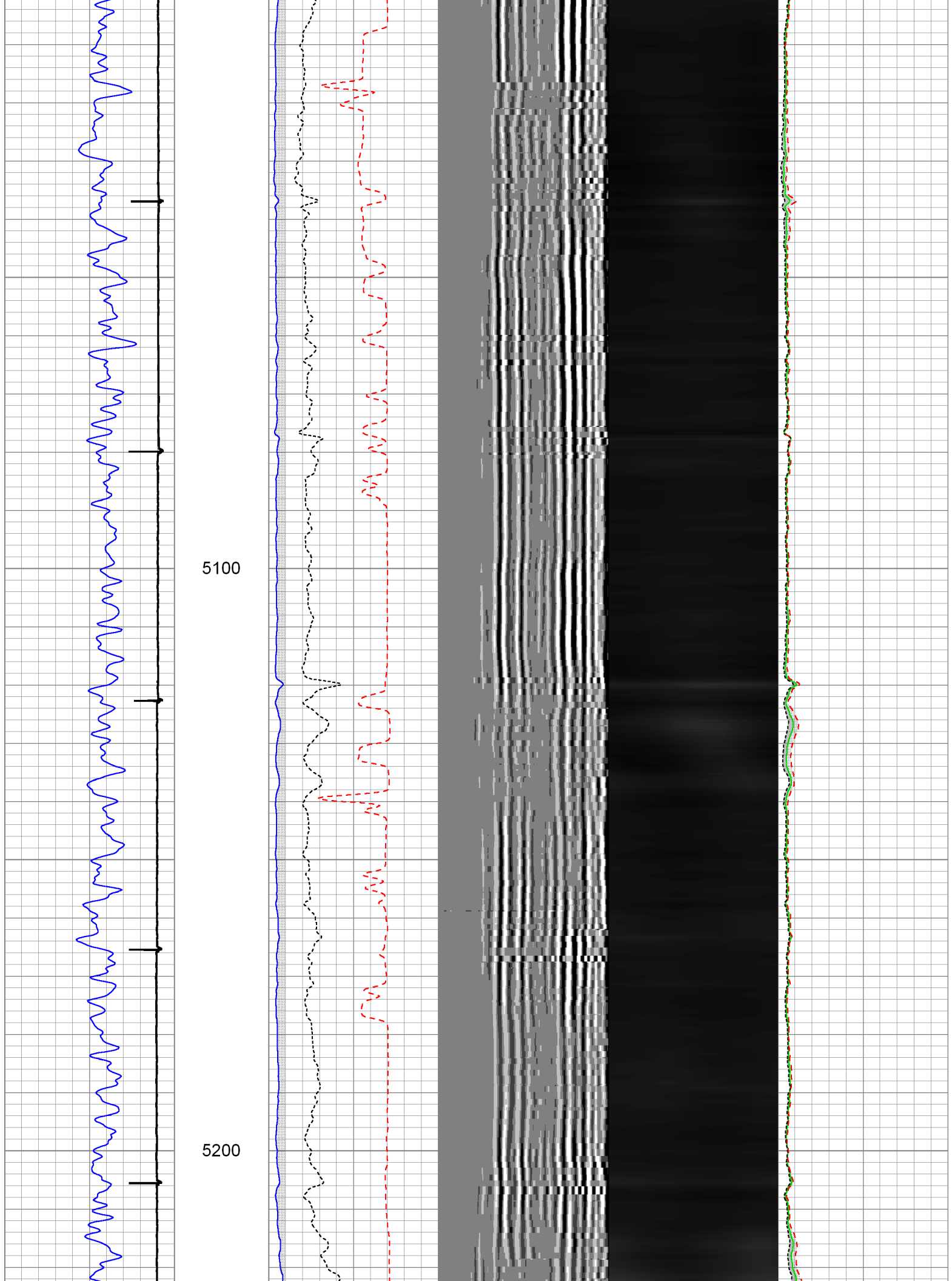


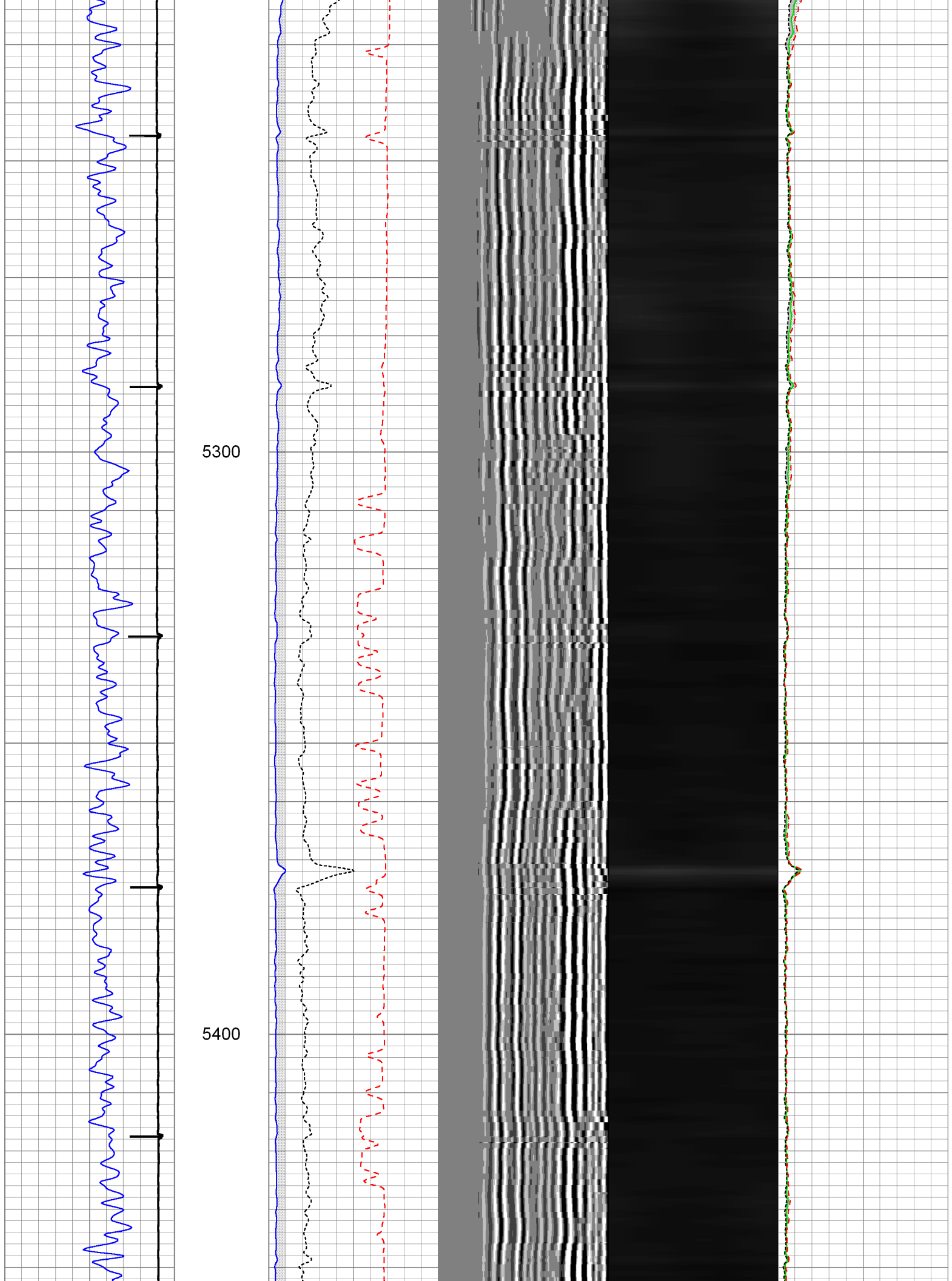
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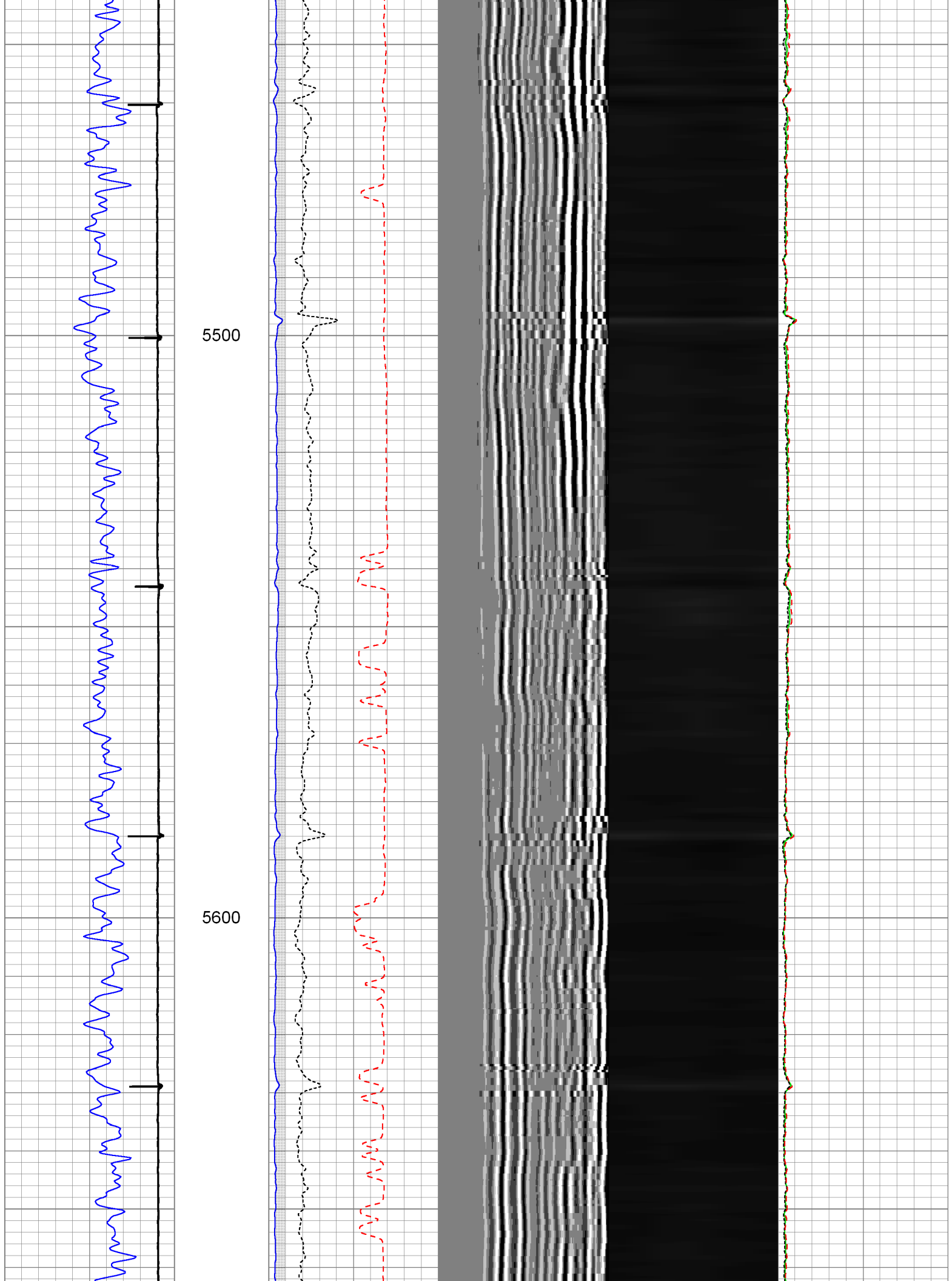
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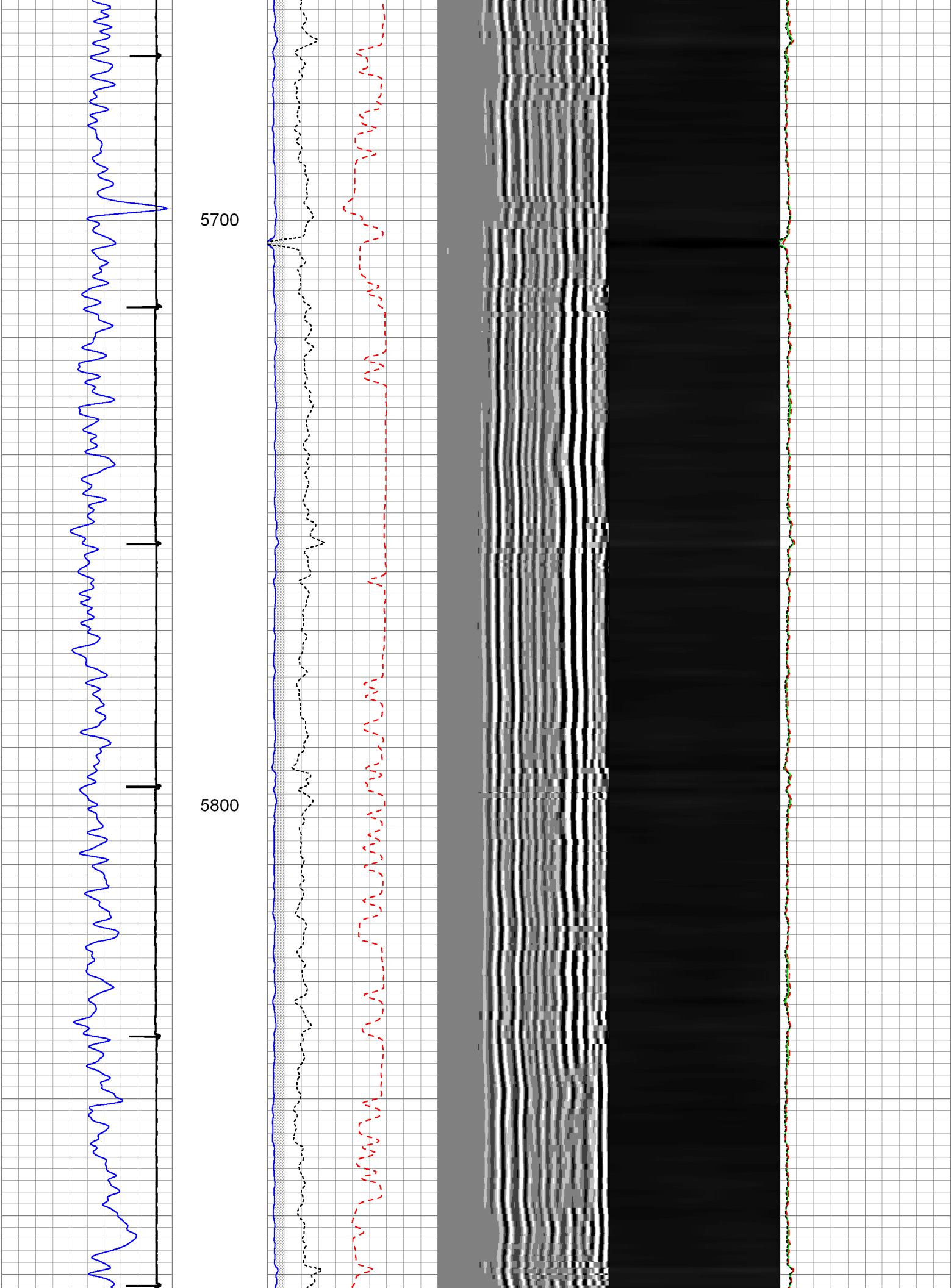


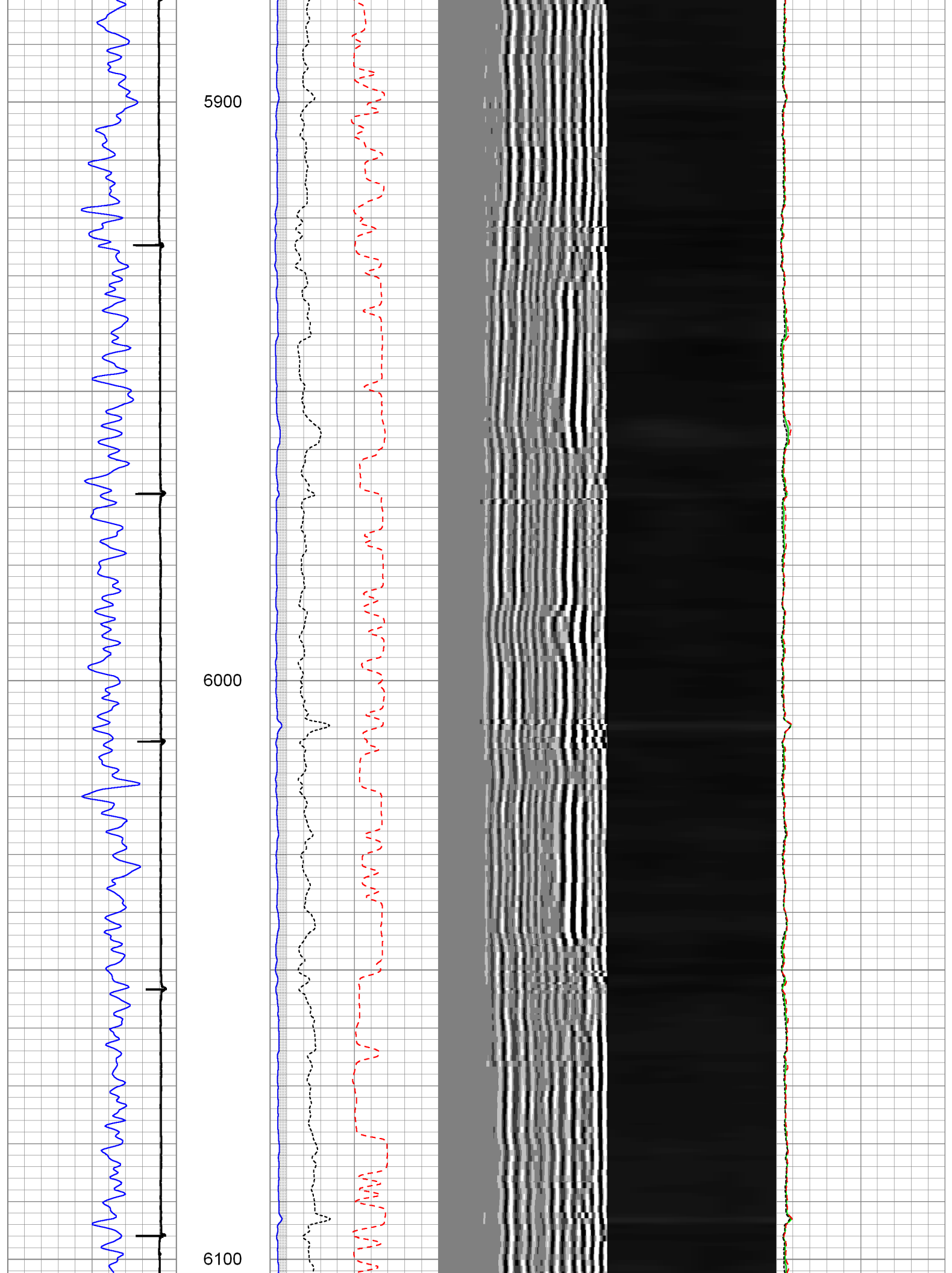


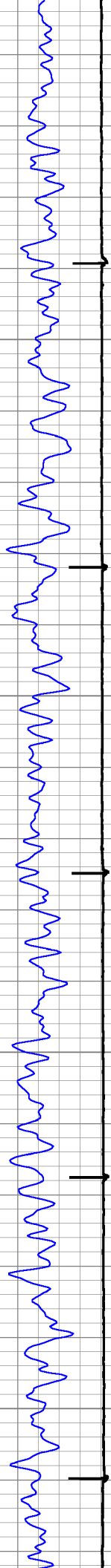


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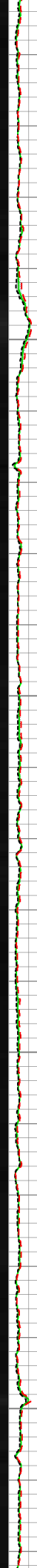
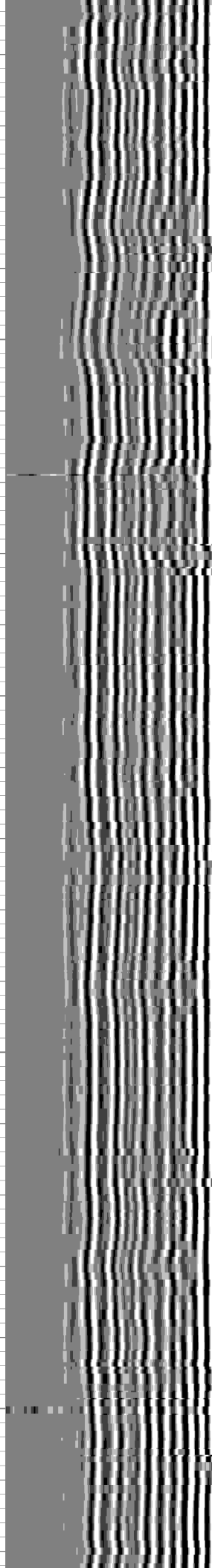
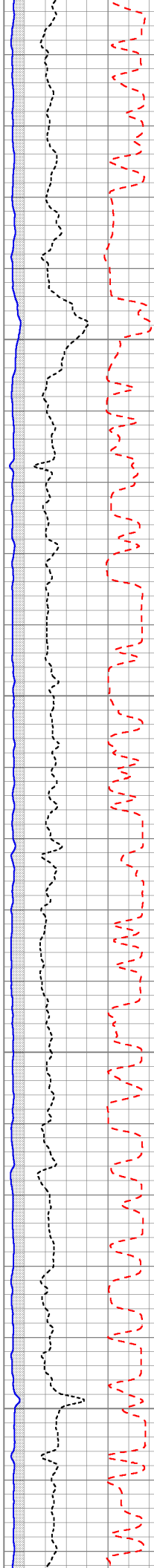


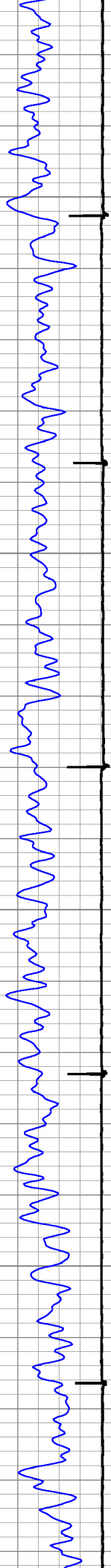




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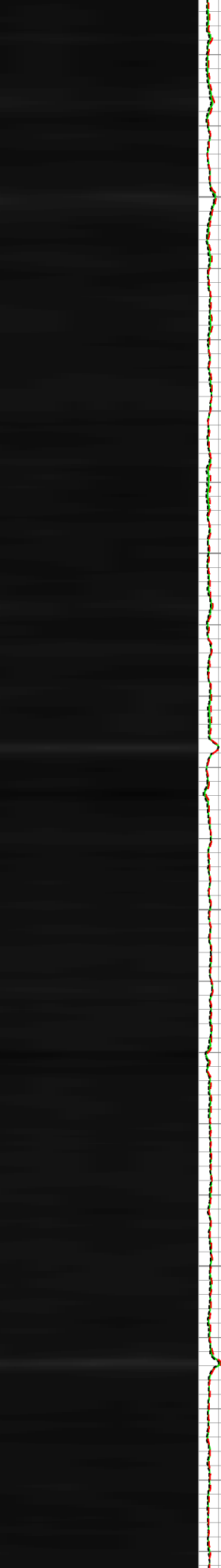
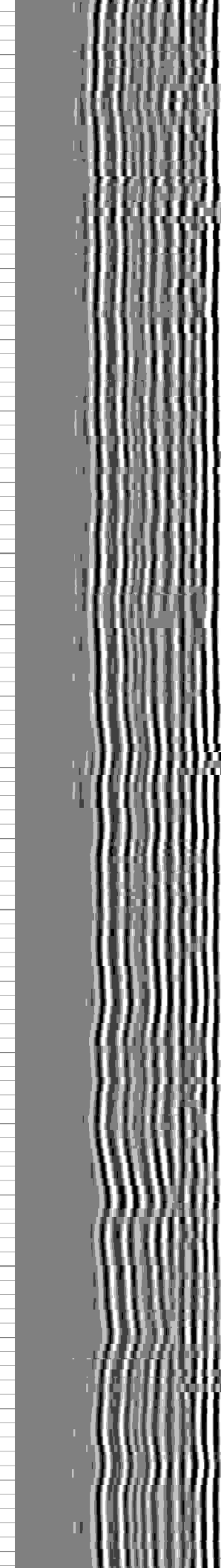
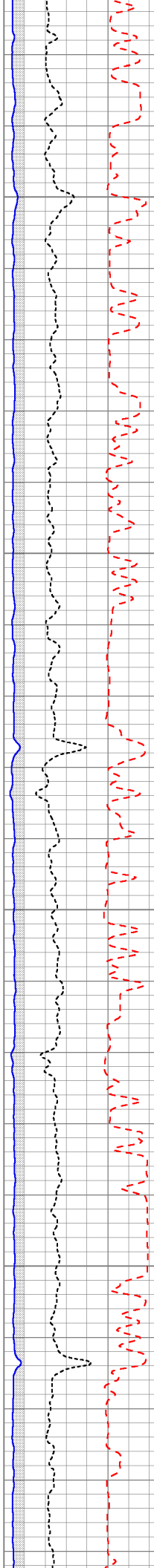
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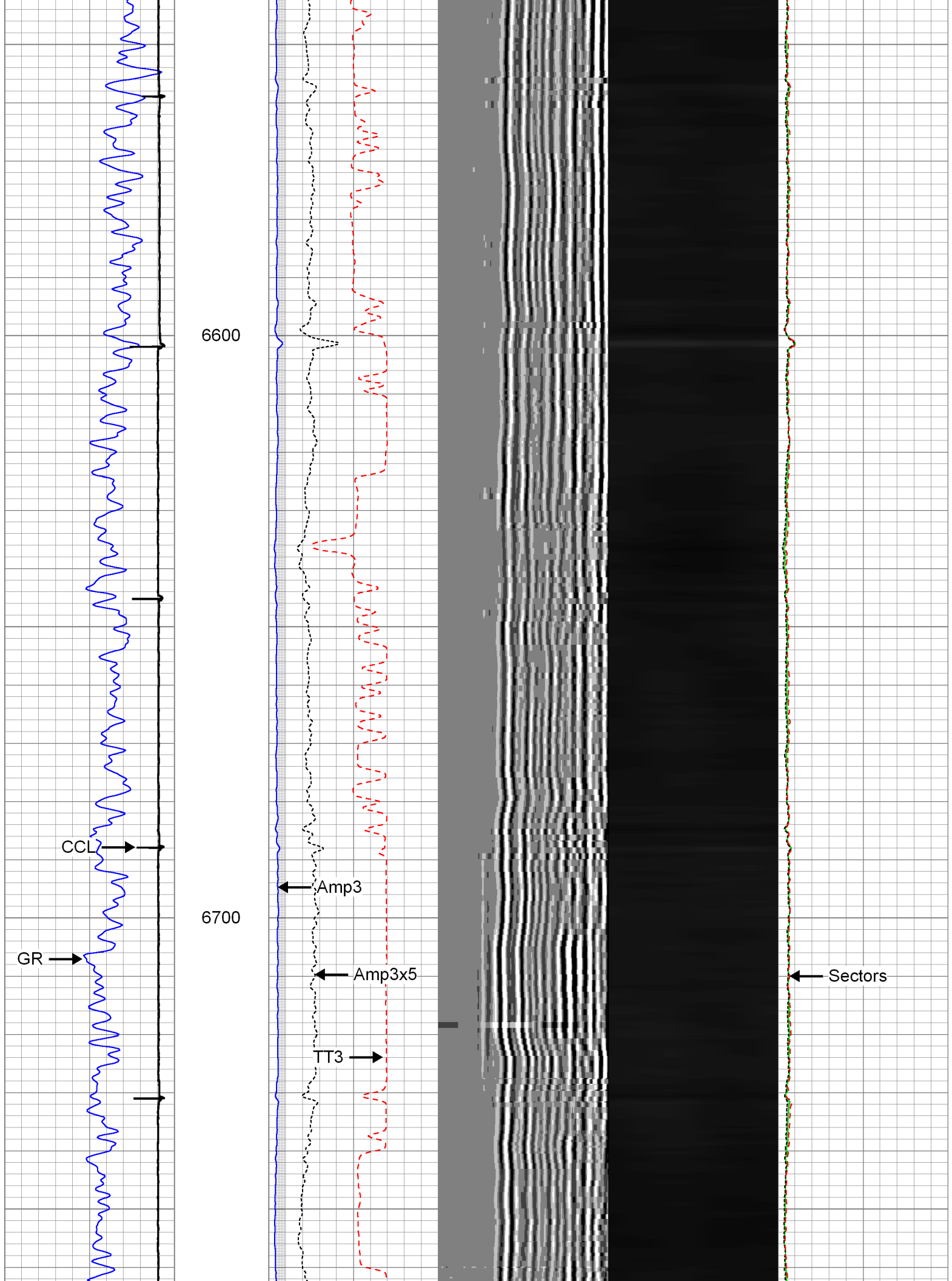


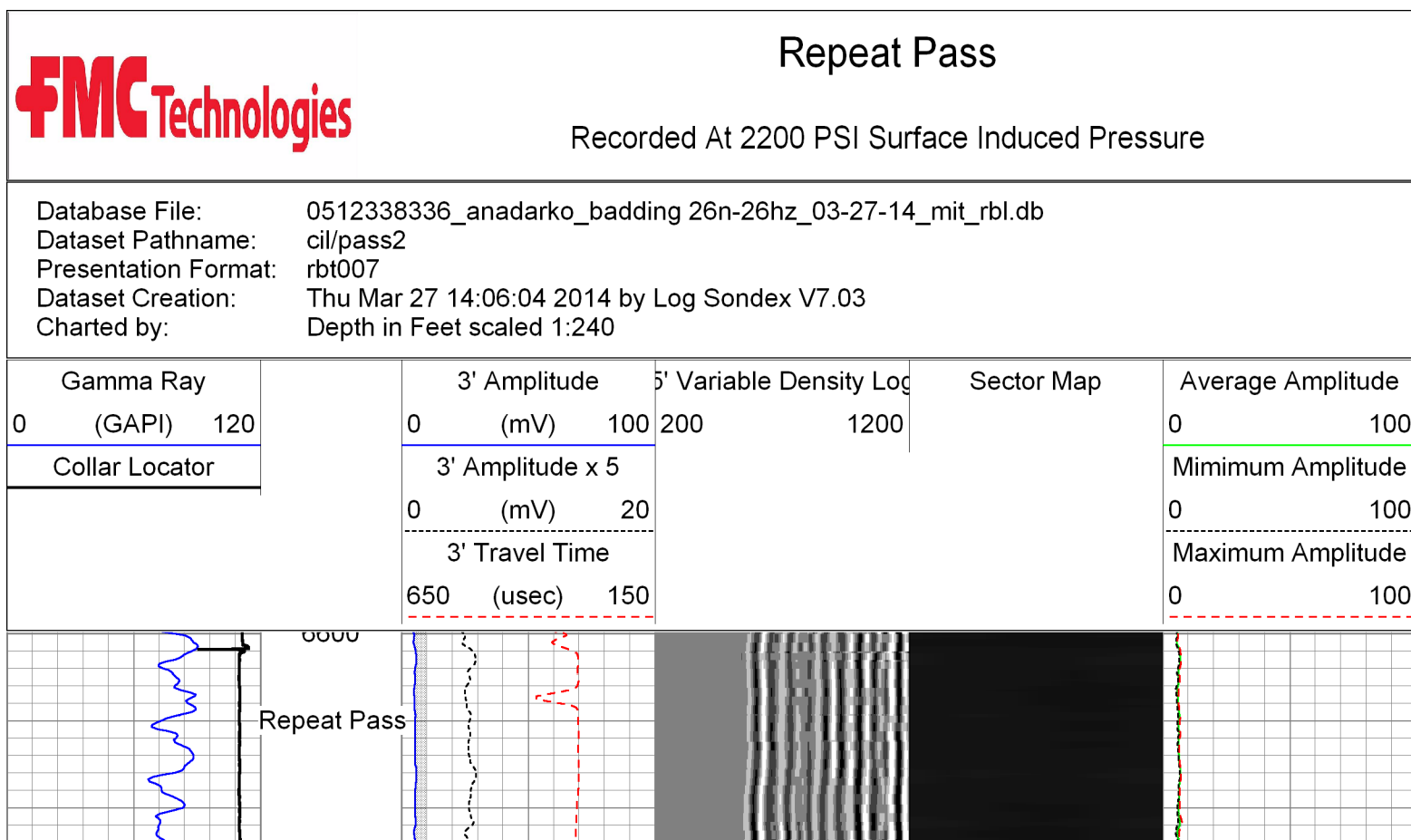
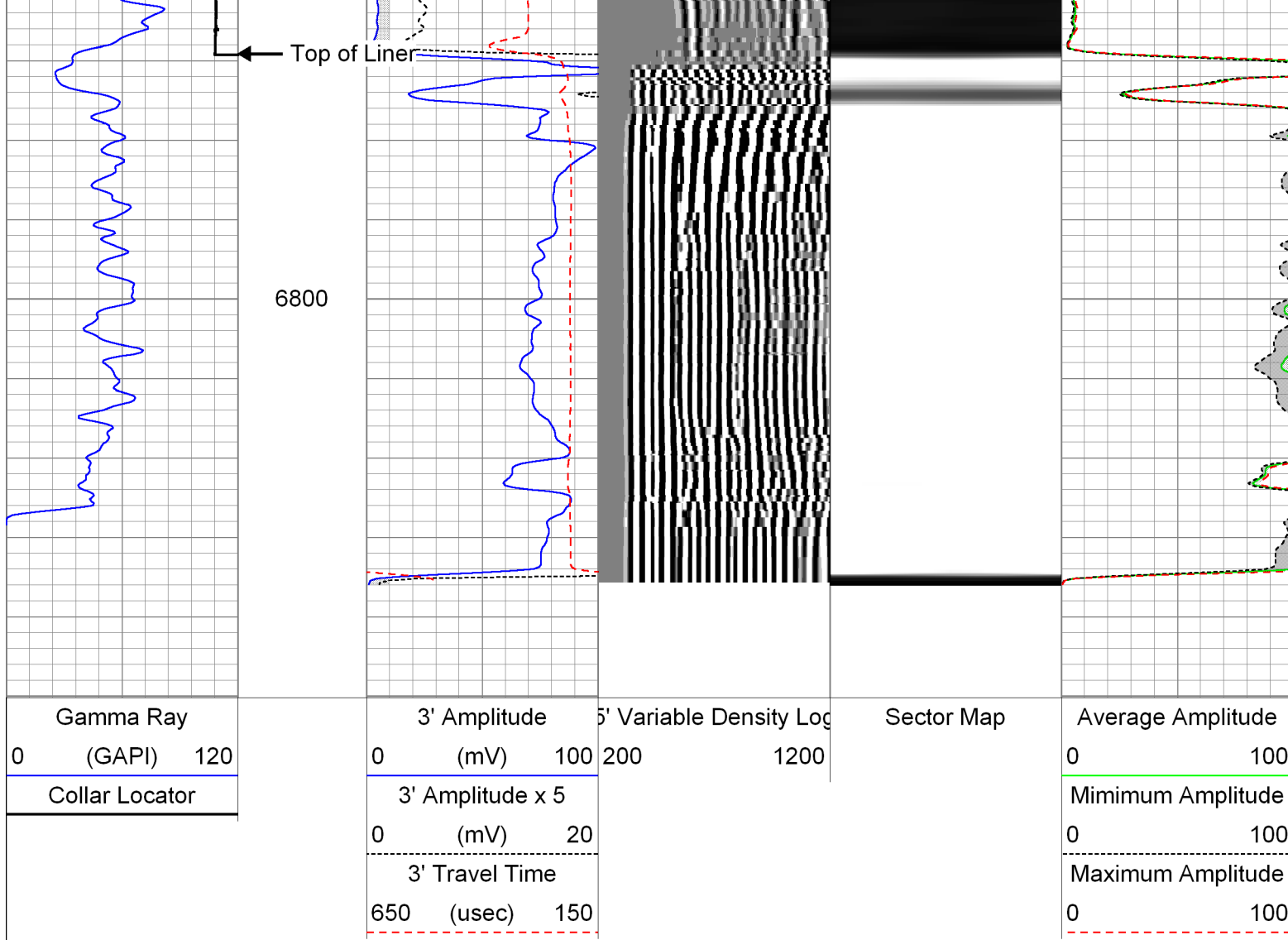


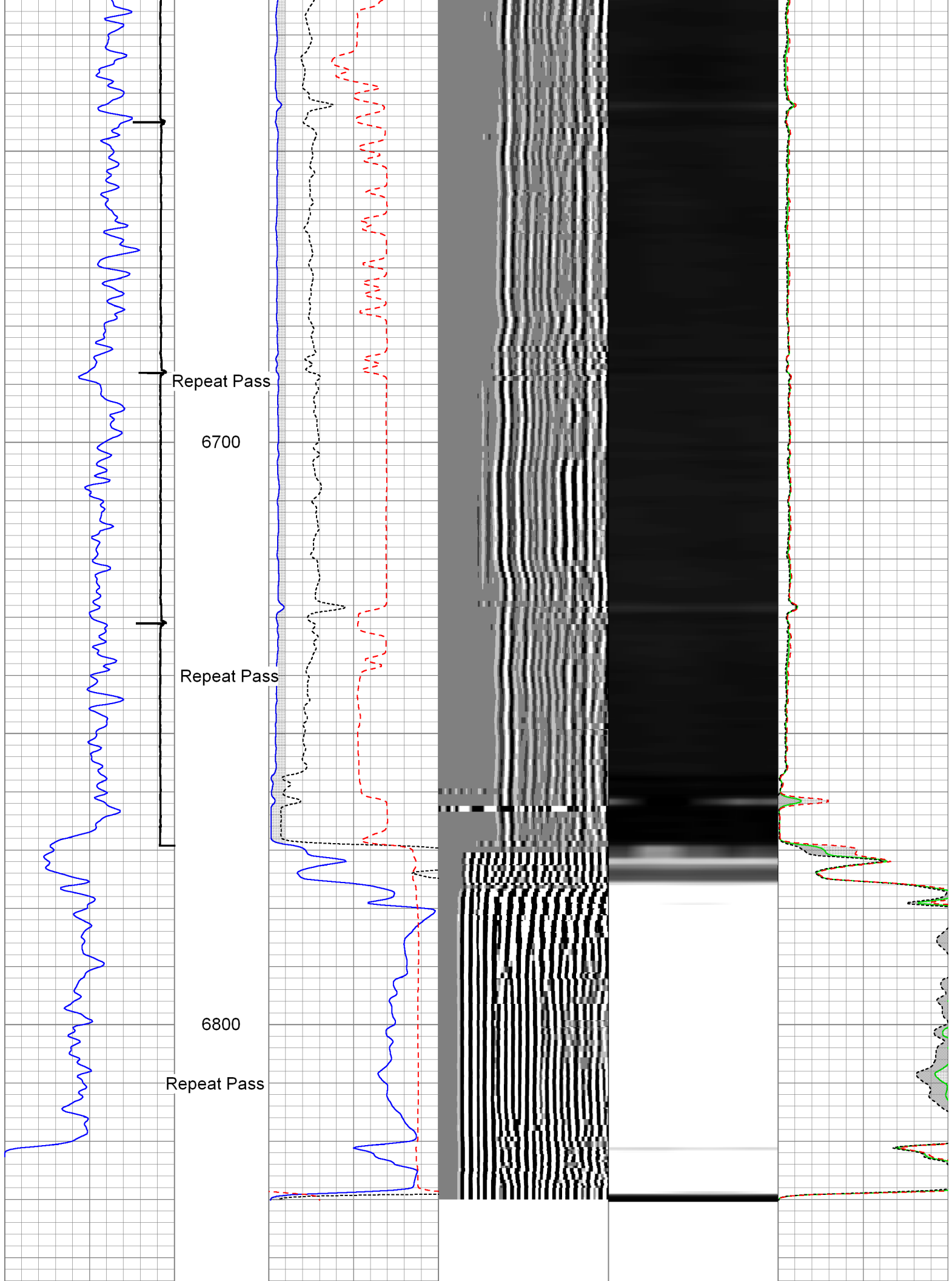
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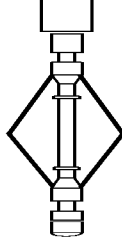
6500









TSTAMP	0.00		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: 0512338336_anadarko_badding 26n-26hz_03-27-14_mit_rbl.db: field/well/cil/pass8 Total Length: 27.33 ft Total Weight: 278.30 lb O.D.: 3.13 in						

Calibration Report	
Database File:	0512338336_anadarko_badding 26n-26hz_03-27-14_mit_rbl.db
Dataset Pathname:	cil/pass8
Dataset Creation:	Thu Mar 27 14:29:56 2014 by Log Sondex V7.03

Multi-finger Imaging Tool Calibration Report
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Serial Number:	10012912
Number of Fingers:	40
Tool Model:	027

Inclinometer Calibration Report		
Performed:	Mon, Oct, 06 14:03:04 2008	
Calibration Angle:	45	
	Inc X	Inc Y
Vertical:	1996	1984
Finger 1 up:	1780	1738
Finger 31 up:	2235	1756
Finger 21 up:	2216	2228
Finger 11 up:	1736	2196
Sensitivity ratio:	1.0062	
X-axis angle:	131.534	
Deviation const.:	331.322	

Finger Calibration Report
Performed: Thu Mar 27 14:19:15 2014

Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1126	354.0	1480	405.0	1885	424.0	2309
Finger 02:	1131	359.0	1490	408.0	1898	427.0	2325
Finger 03:	1067	366.0	1433	424.0	1857	446.0	2303
Finger 04:	1089	355.0	1444	407.0	1851	435.0	2286
Finger 05:	1096	366.0	1462	414.0	1876	429.0	2305
Finger 06:	1109	370.0	1479	409.0	1888	425.0	2313
Finger 07:	1061	366.0	1427	407.0	1834	426.0	2260
Finger 08:	1090	356.0	1446	396.0	1842	416.0	2258
Finger 09:	1095	358.0	1453	396.0	1849	413.0	2262
Finger 10:	1077	358.0	1435	394.0	1829	404.0	2233
Finger 11:	1098	362.0	1460	386.0	1846	396.0	2242
Finger 12:	1083	355.0	1438	382.0	1820	396.0	2216
Finger 13:	1110	362.0	1472	375.0	1847	381.0	2228
Finger 14:	1099	366.0	1465	382.0	1847	392.0	2239
Finger 15:	1020	362.0	1382	389.0	1771	400.0	2171
Finger 16:	1031	363.0	1394	386.0	1780	397.0	2177
Finger 17:	1032	361.0	1393	384.0	1777	400.0	2177
Finger 18:	1111	352.0	1463	368.0	1831	383.0	2214
Finger 19:	1055	352.0	1407	376.0	1783	387.0	2170
Finger 20:	1041	352.0	1393	380.0	1773	396.0	2169
Finger 21:	1071	365.0	1436	380.0	1816	389.0	2205

Finger 22:	1039	357.0	1396	380.0	1776	400.0	2176
Finger 23:	997	361.0	1358	392.0	1750	415.0	2165
Finger 24:	1084	363.0	1447	372.0	1819	378.0	2197
Finger 25:	1039	367.0	1406	390.0	1796	416.0	2212
Finger 26:	1145	349.0	1494	363.0	1857	383.0	2240
Finger 27:	1070	359.0	1429	384.0	1813	407.0	2220
Finger 28:	1120	350.0	1470	376.0	1846	402.0	2248
Finger 29:	1037	360.0	1397	397.0	1794	428.0	2222
Finger 30:	1088	358.0	1446	395.0	1841	420.0	2261
Finger 31:	1106	358.0	1464	391.0	1855	420.0	2275
Finger 32:	1074	362.0	1436	408.0	1844	436.0	2280
Finger 33:	1164	355.0	1519	387.0	1906	403.0	2309
Finger 34:	1148	355.0	1503	399.0	1902	426.0	2328
Finger 35:	1066	369.0	1435	426.0	1861	459.0	2320
Finger 36:	1074	366.0	1440	410.0	1850	446.0	2296
Finger 37:	1151	362.0	1513	417.0	1930	436.0	2366
Finger 38:	1128	354.0	1482	406.0	1888	422.0	2310
Finger 39:	1151	352.0	1503	400.0	1903	423.0	2326
Finger 40:	1085	358.0	1443	417.0	1860	447.0	2307

Segmented Cement Bond Log Calibration Report

Serial Number:	1066in7
Tool Model:	004
Calibration Casing Diameter:	7.000 in
Calibration Depth:	151.017 ft

Master Calibration, performed Sun Mar 02 16:30:51 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.004	0.717	0.800	62.165	85.210	1.106
5FT	-0.007	0.772	0.800	62.165	78.746	1.377
S1	-0.003	0.679	0.000	100.000	146.553	0.445
S2	-0.005	0.696	0.000	100.000	142.673	0.686
S3	-0.005	0.710	0.000	100.000	139.922	0.637
S4	-0.005	0.730	0.000	100.000	136.067	0.659
S5	-0.003	0.741	0.000	100.000	134.379	0.382
S6	-0.004	0.748	0.000	100.000	132.996	0.482
S7	-0.003	0.740	0.000	100.000	134.593	0.434
S8	-0.003	0.703	0.000	100.000	141.539	0.441

Gamma Ray Calibration Report

Serial Number:	000001
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	Badding 26N-26HZ
Field	Wattenberg

