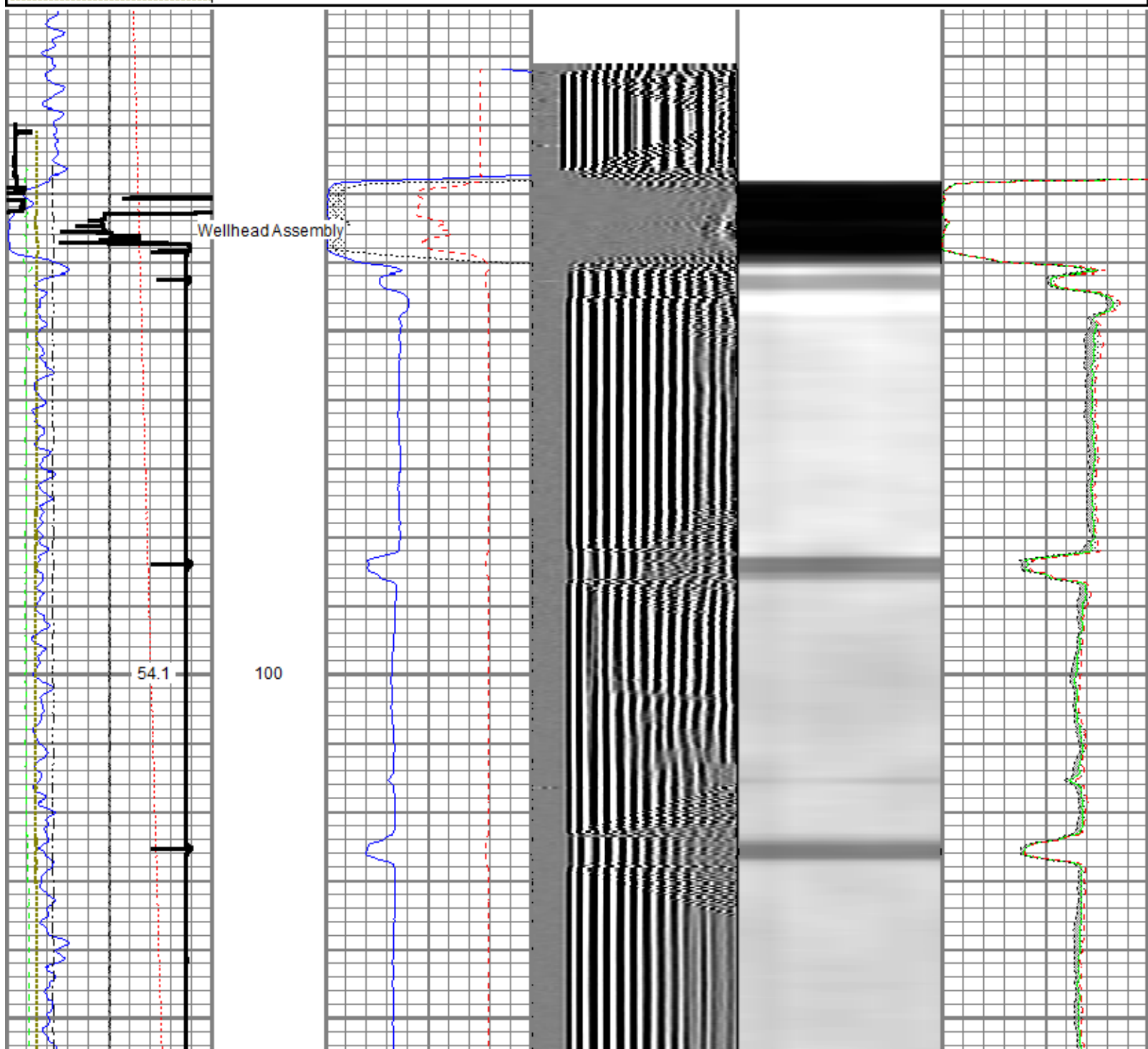


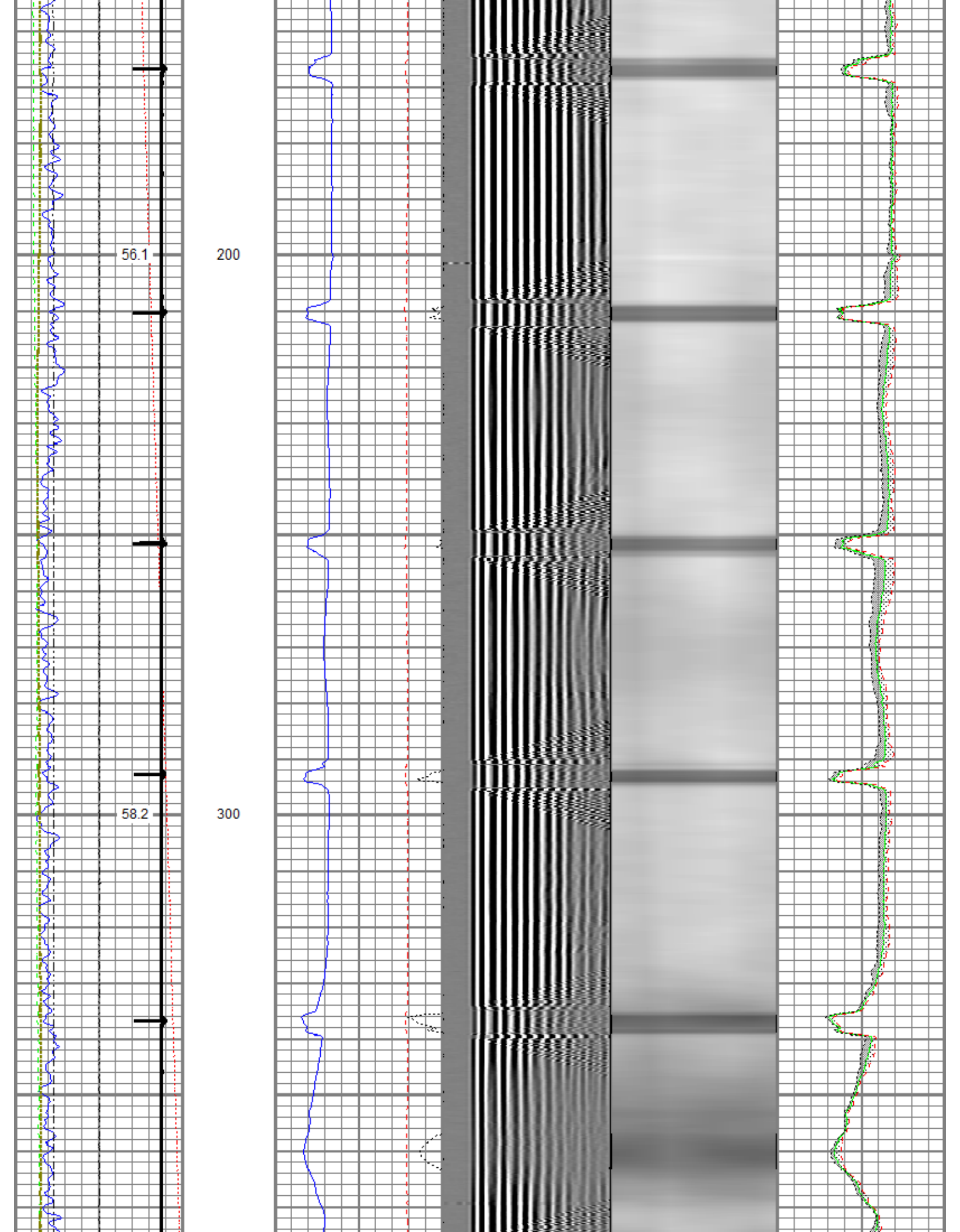


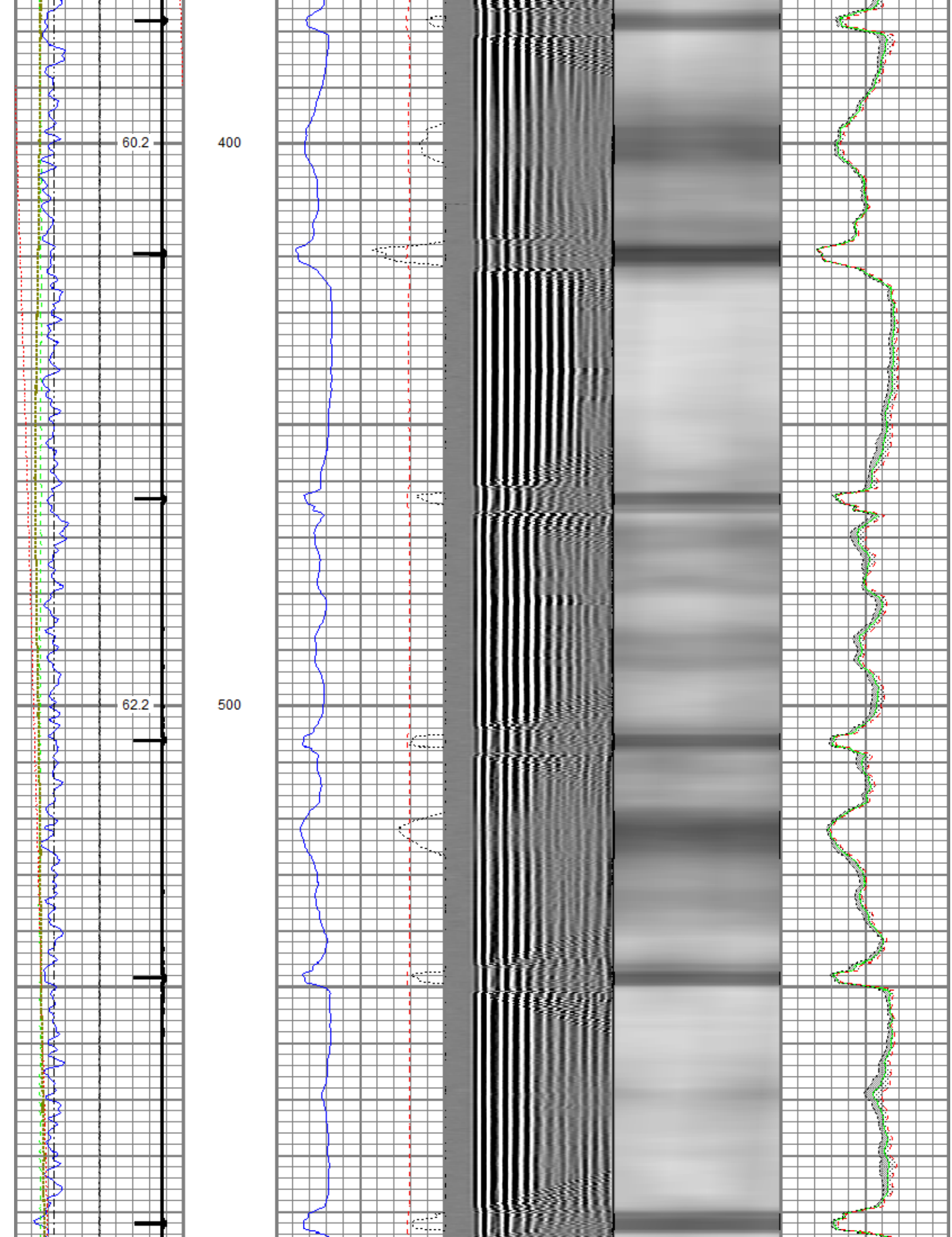
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 referenced to Casing Tally reported Liner Top at 5938 FT Adjusted +4.5 FT to correlate with Liner Top Gauge Ring/Junk Basket ran to 7665 FT with no debris Log ran from 40 FT above RBP Recorded with 2800 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations Thank you for choosing Reliance Oilfield Services, LLC!!

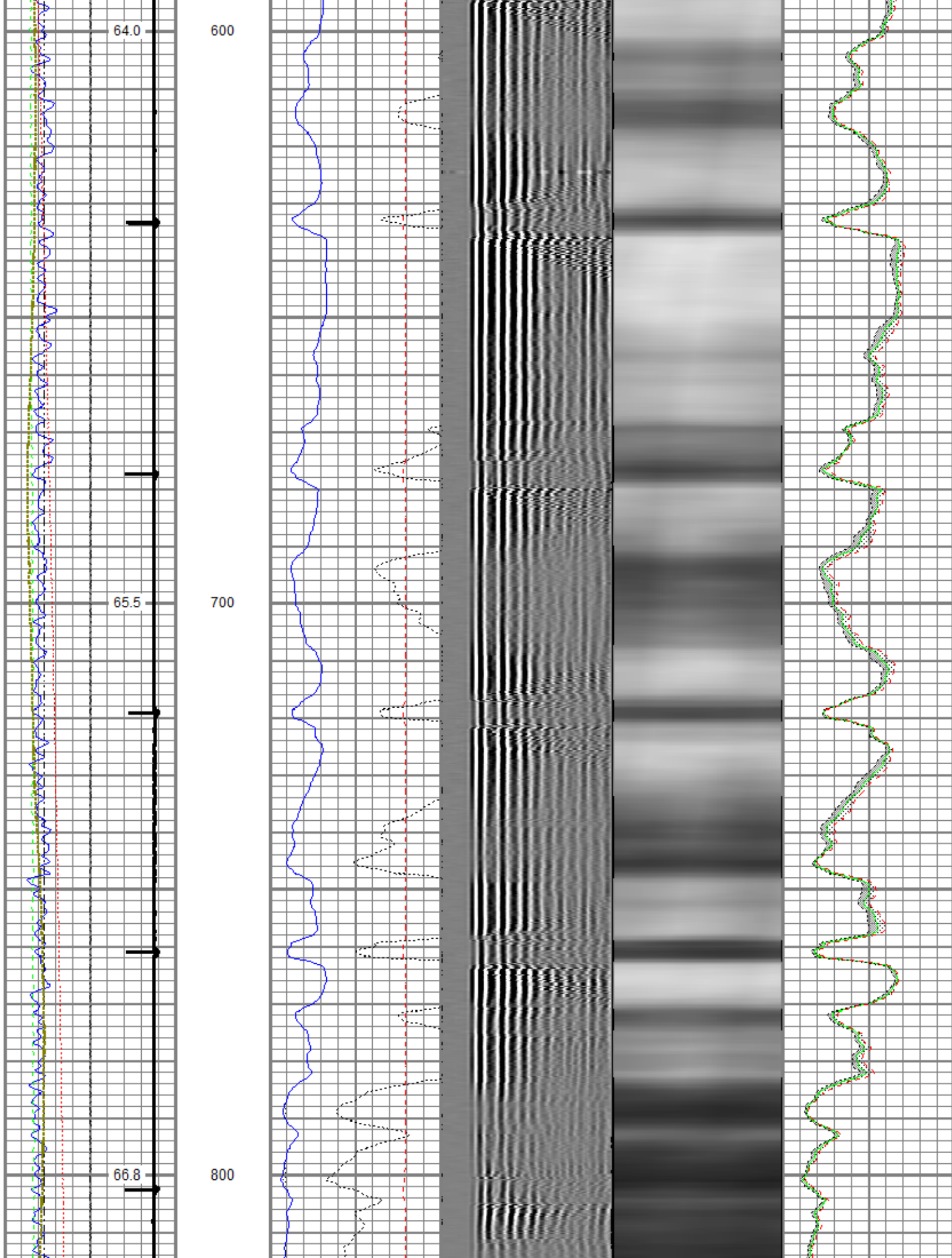
Database File	0512344565_anadarko_newby state 26n-33hz_mit_rbl_03-19-18\processed_0512344565_anadarko_newby state 26n-33hz_r
Dataset Pathname	pass5
Presentation Format	ros_rbt_mit_sx
Dataset Creation	Mon Mar 19 08:13:32 2018
Charted by	Depth in Feet scaled 1:240

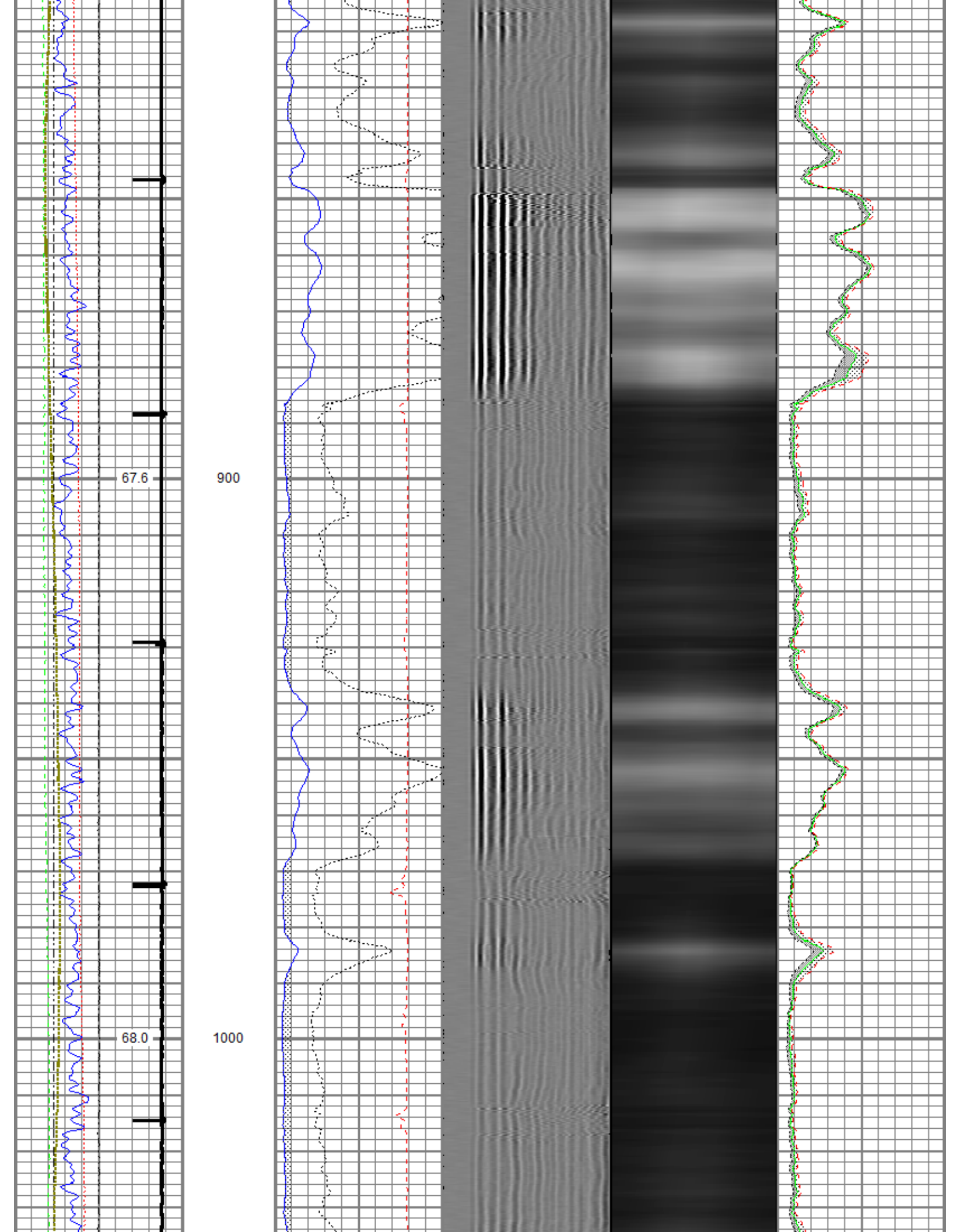
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	(u sec)	1200		Minimum Amplitude	
Line Speed	0	(mV)	20			0	100	
(ft/min)	100	3' Travel Time					Maximum Amplitude	
Line Tension (lb)	2000	650	(u sec)	150		0	100	
Differential Temperature								
(degF)	2							
Temperature (degF)	20							
Casing Collar Locator								
Deviation (deg)	90							

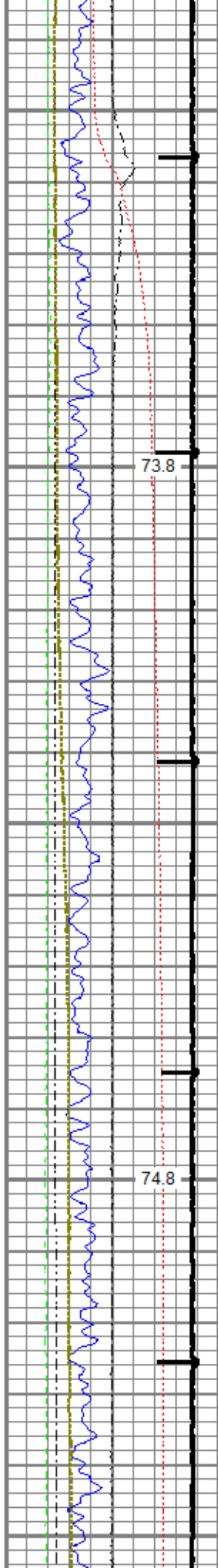






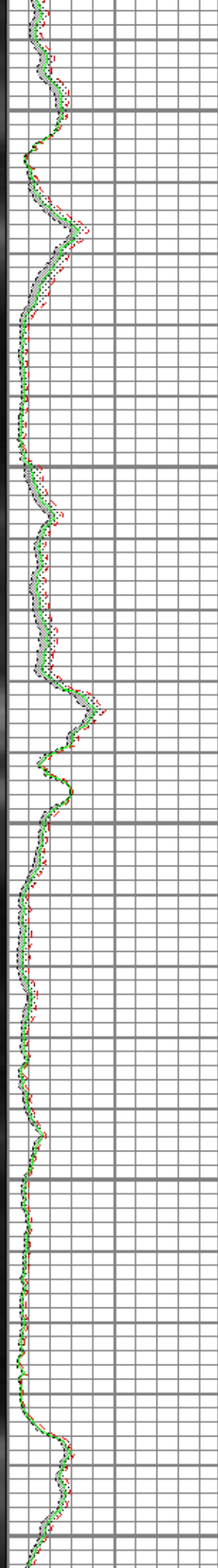
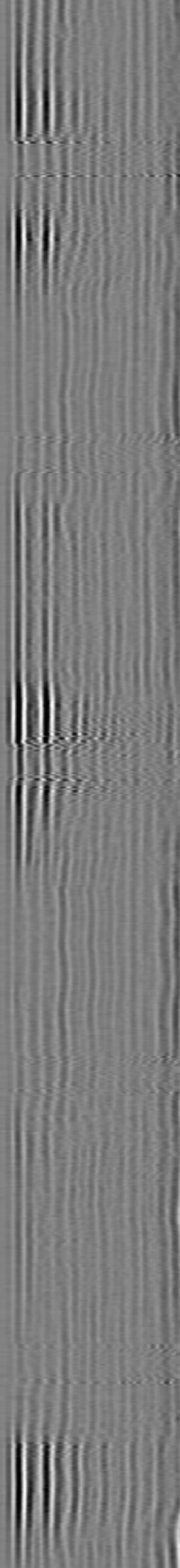
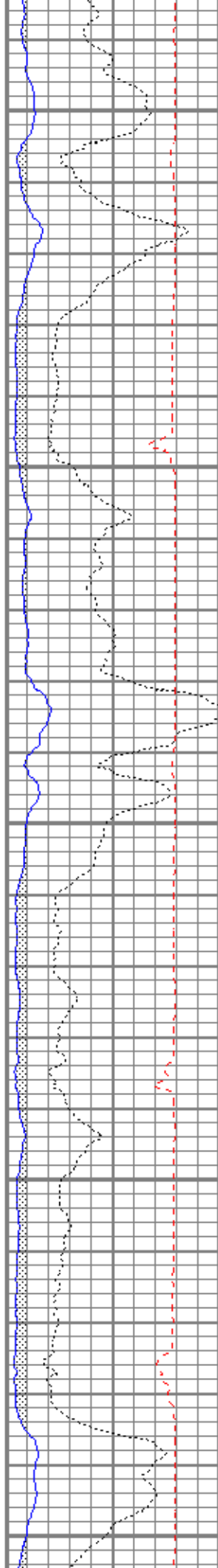


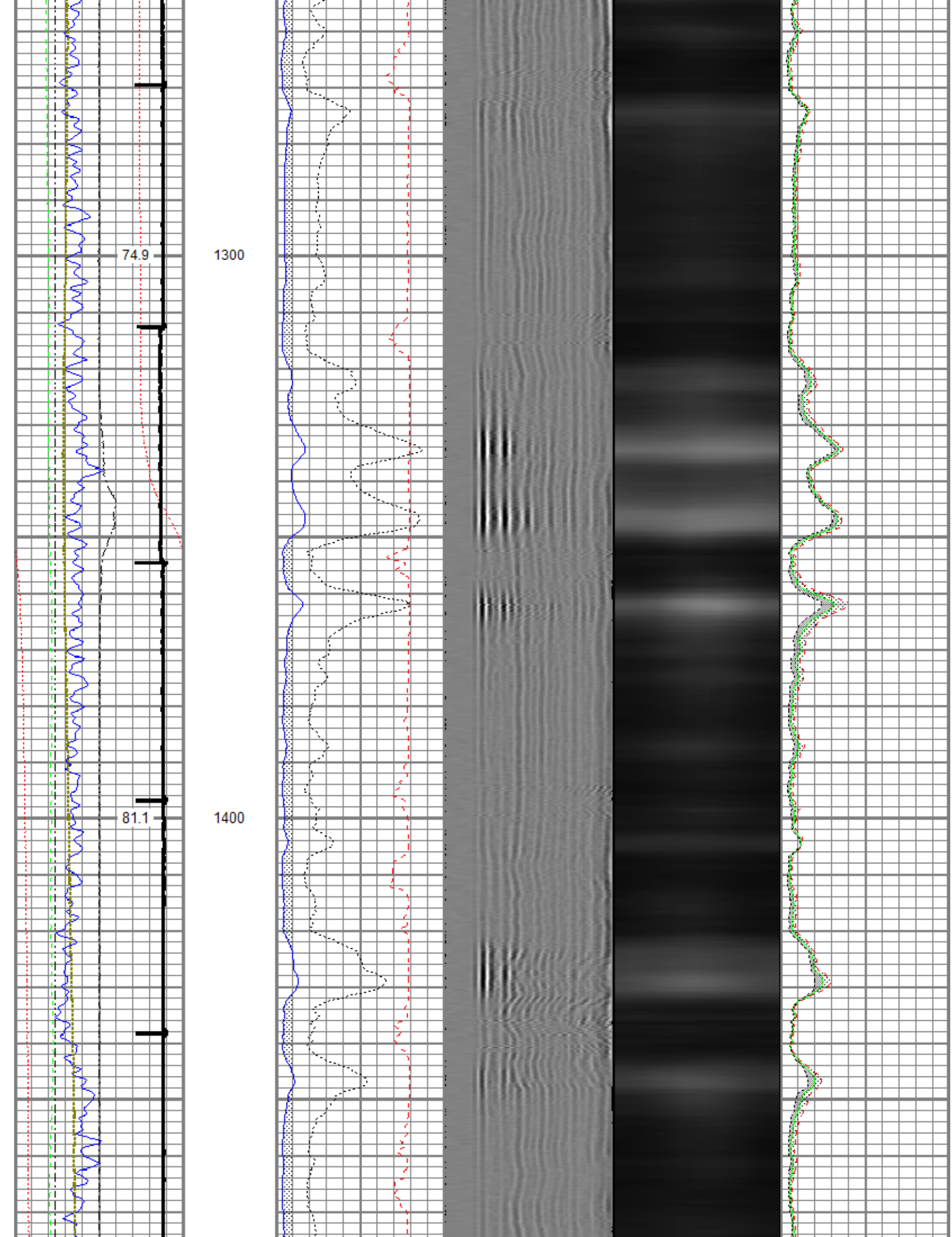


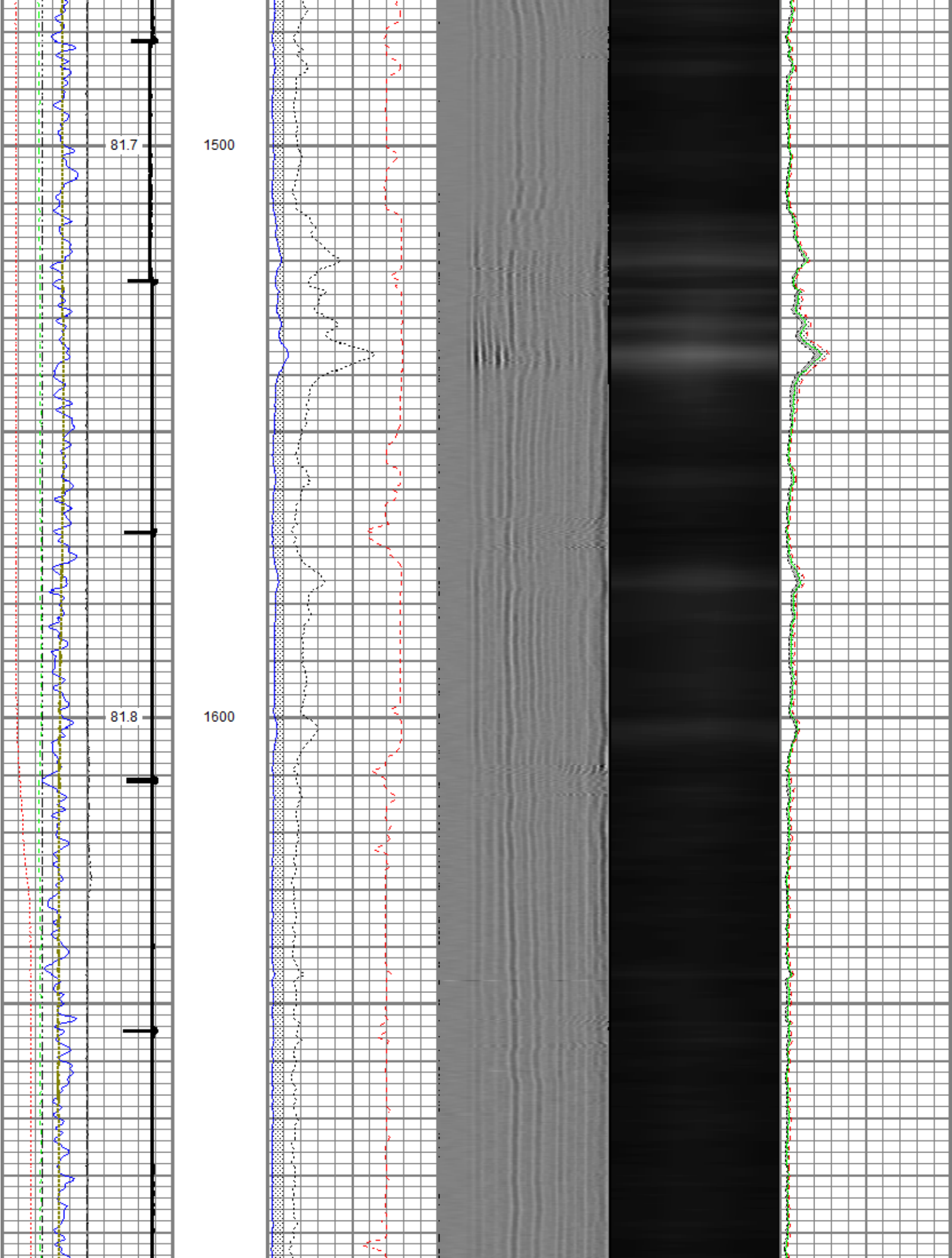


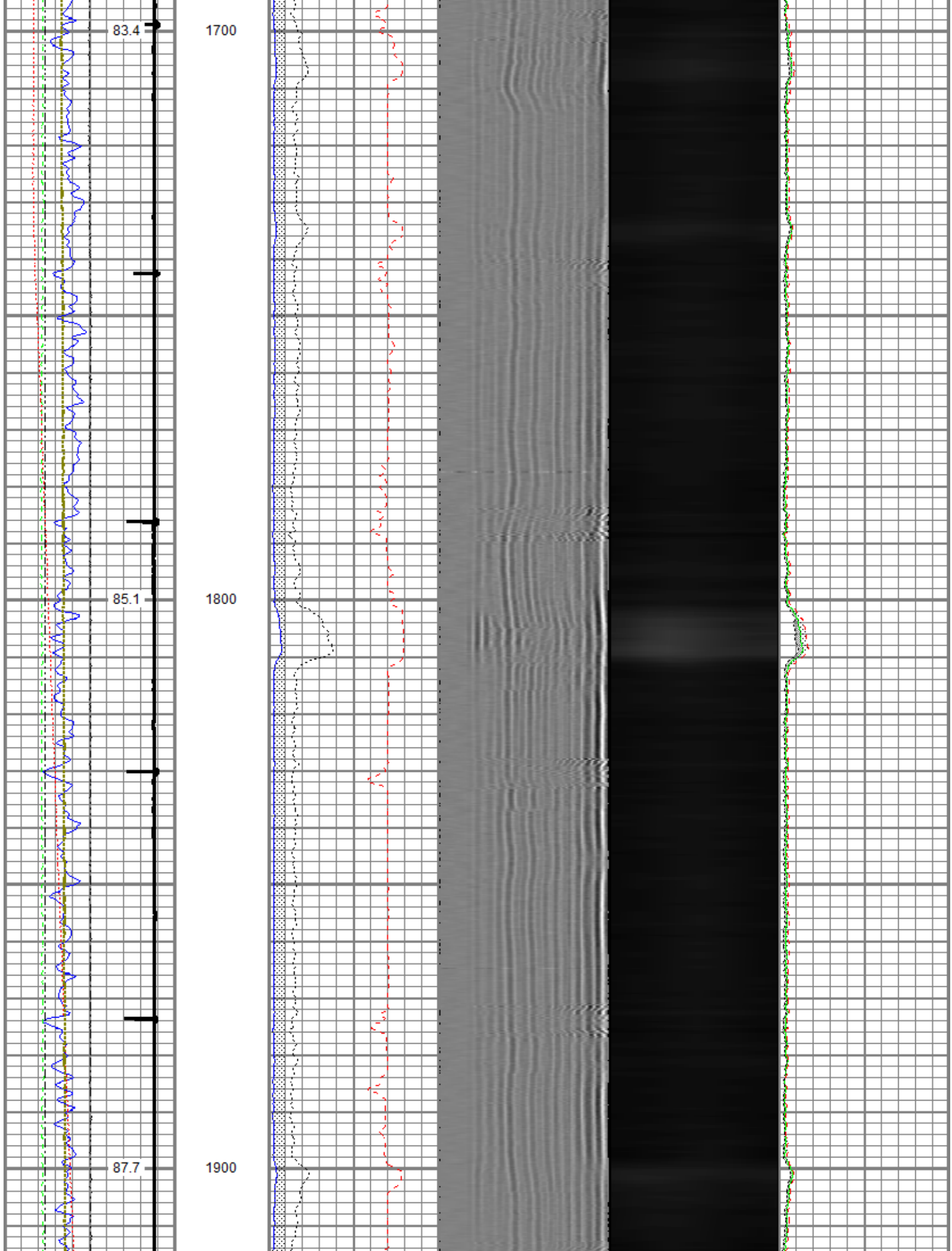
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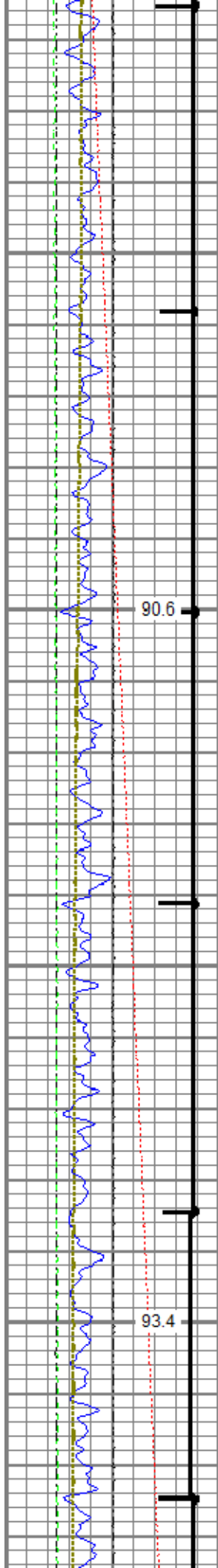
1200









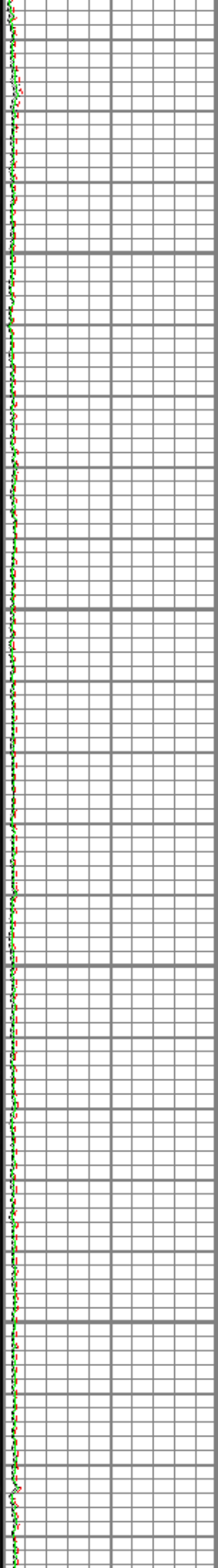
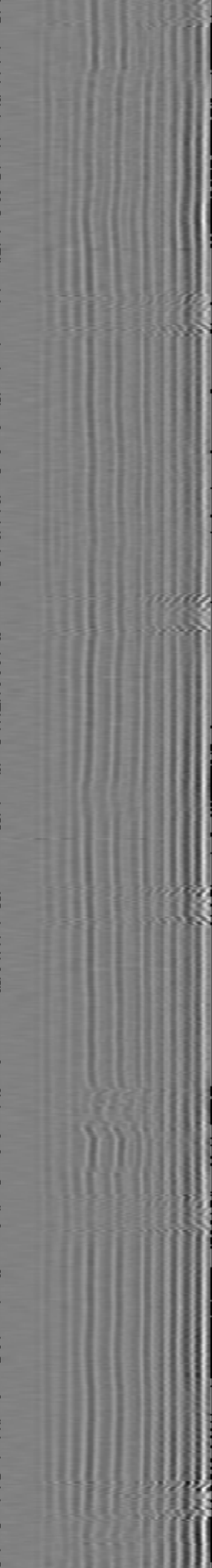
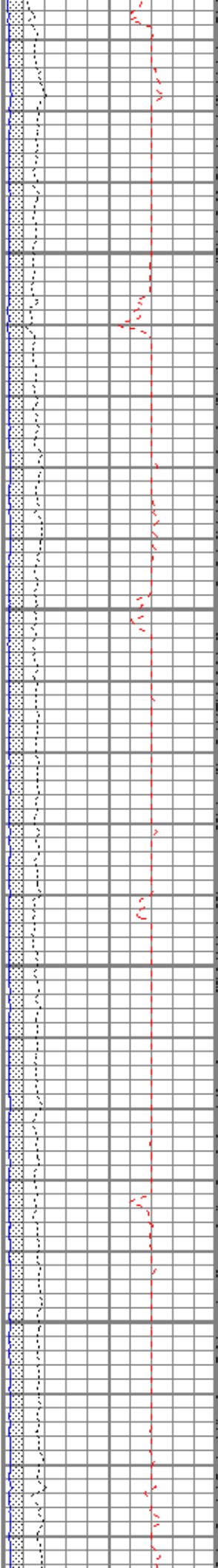


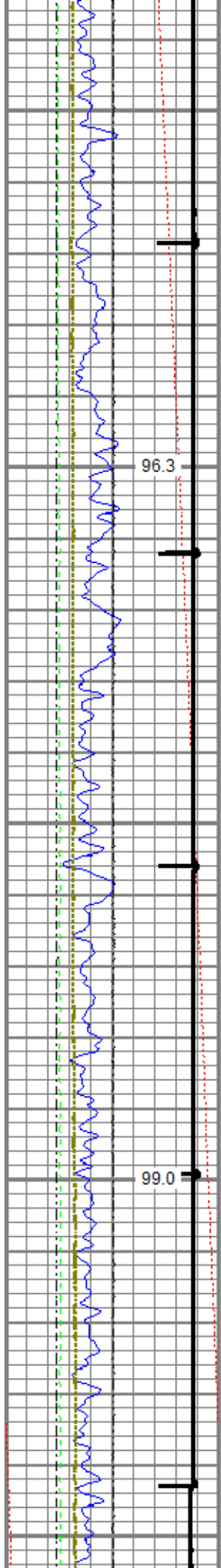
90.6

2000

93.4

2100



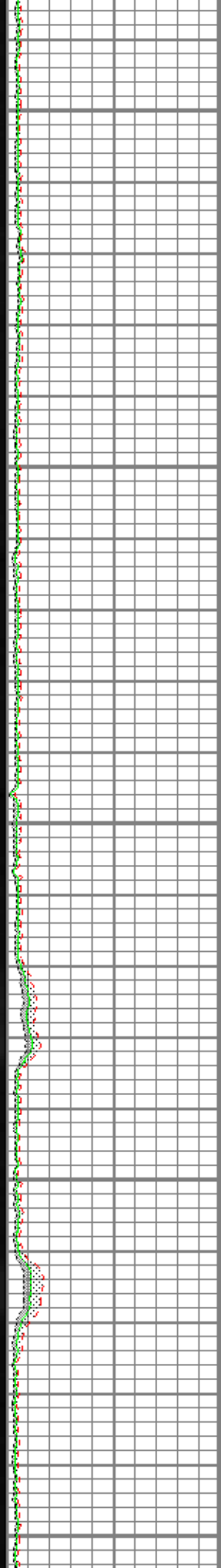
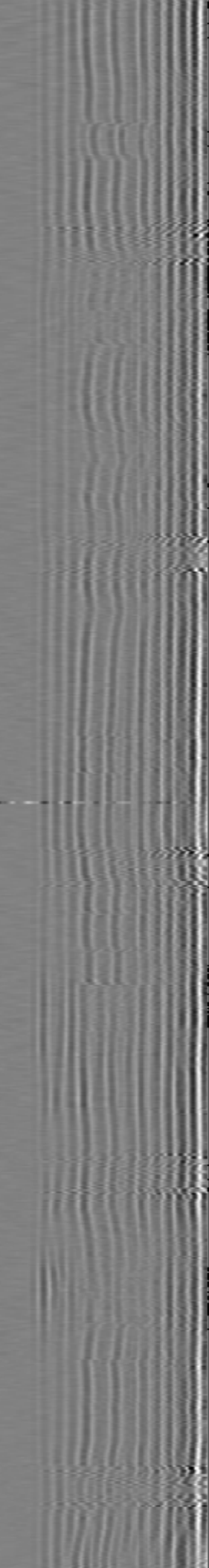
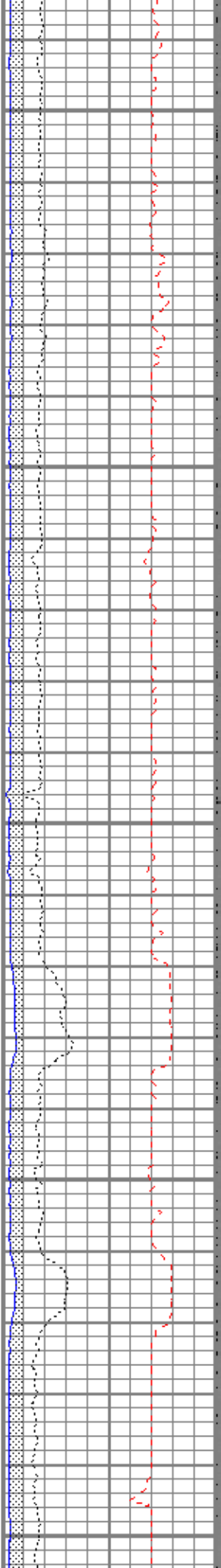


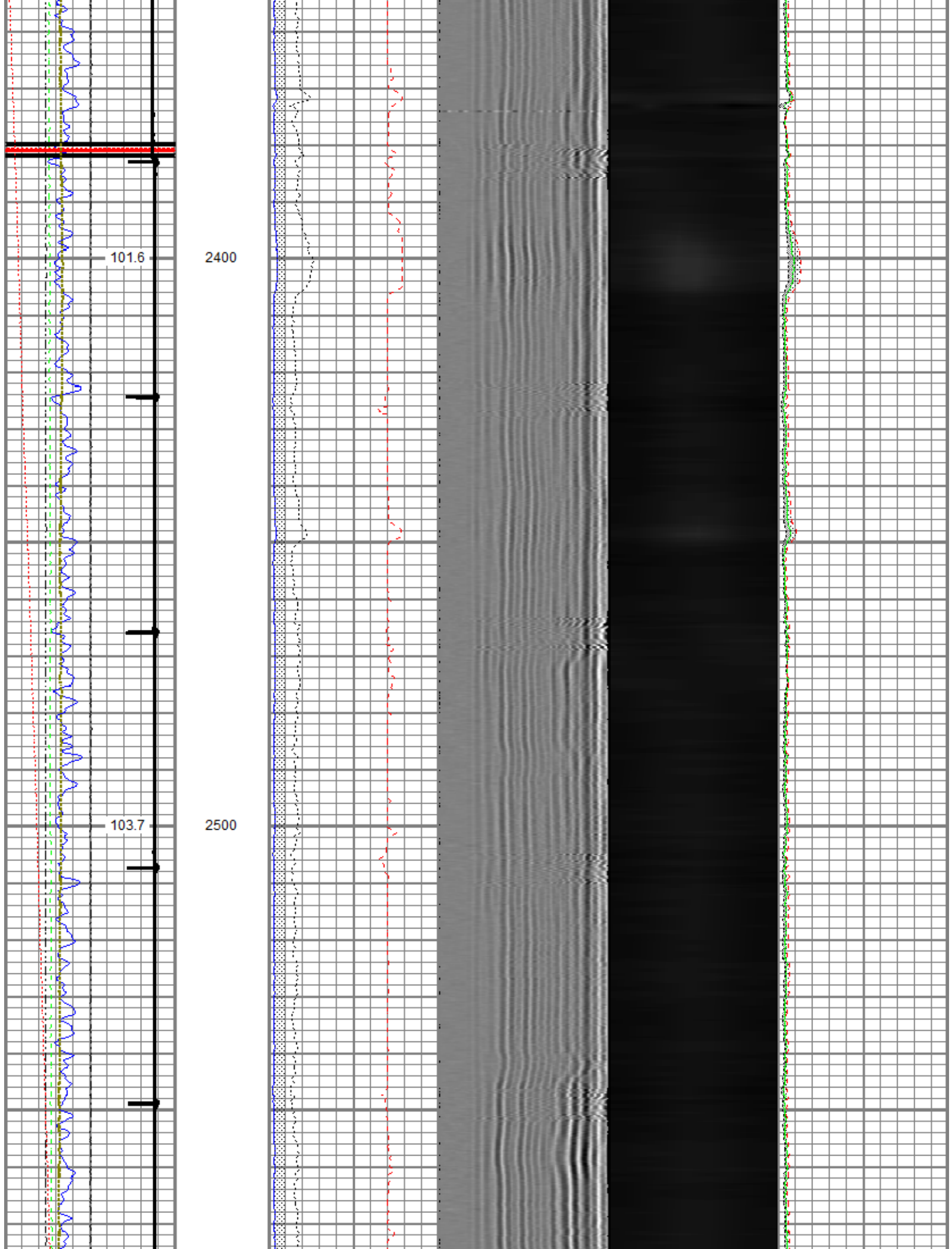
96.3

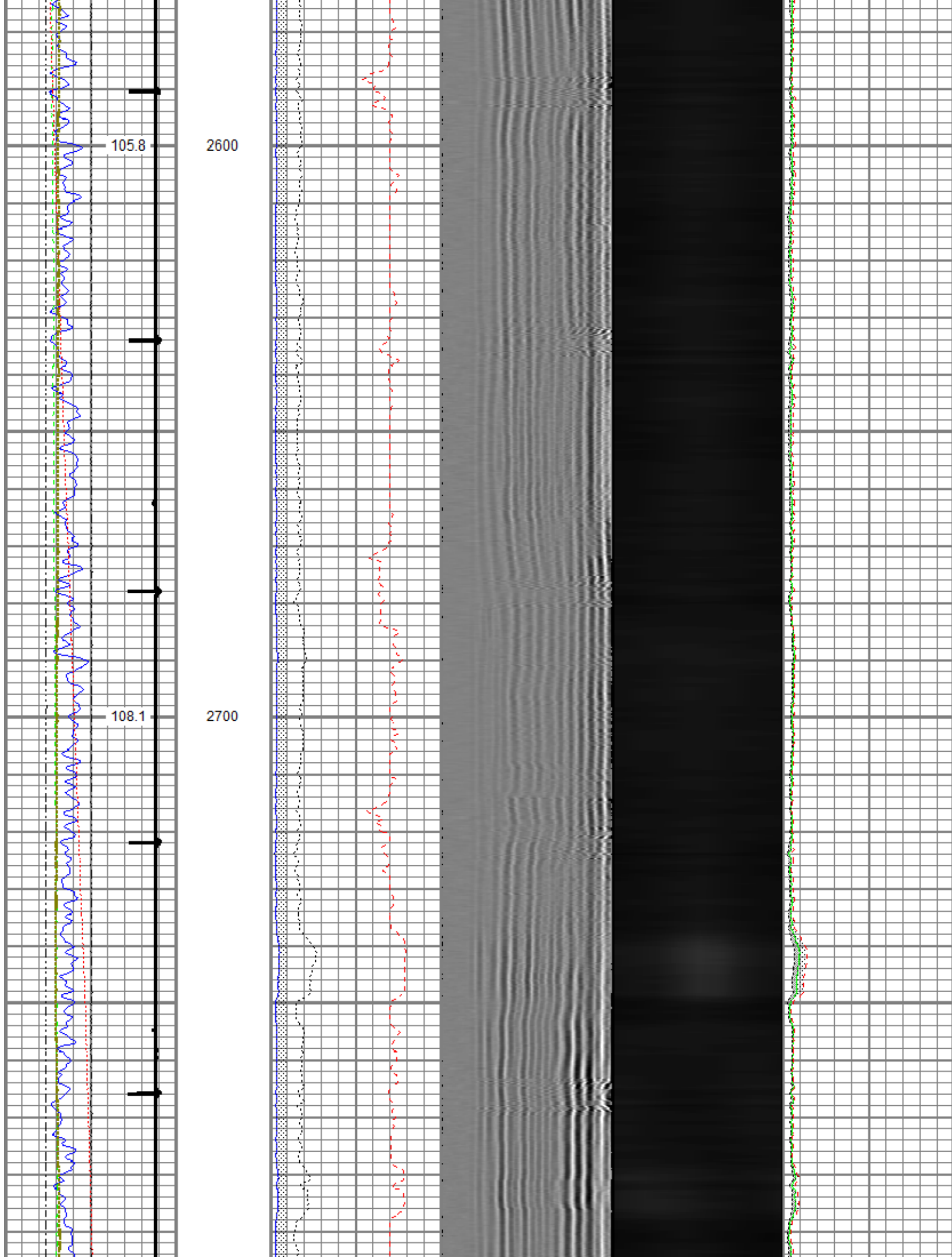
2200

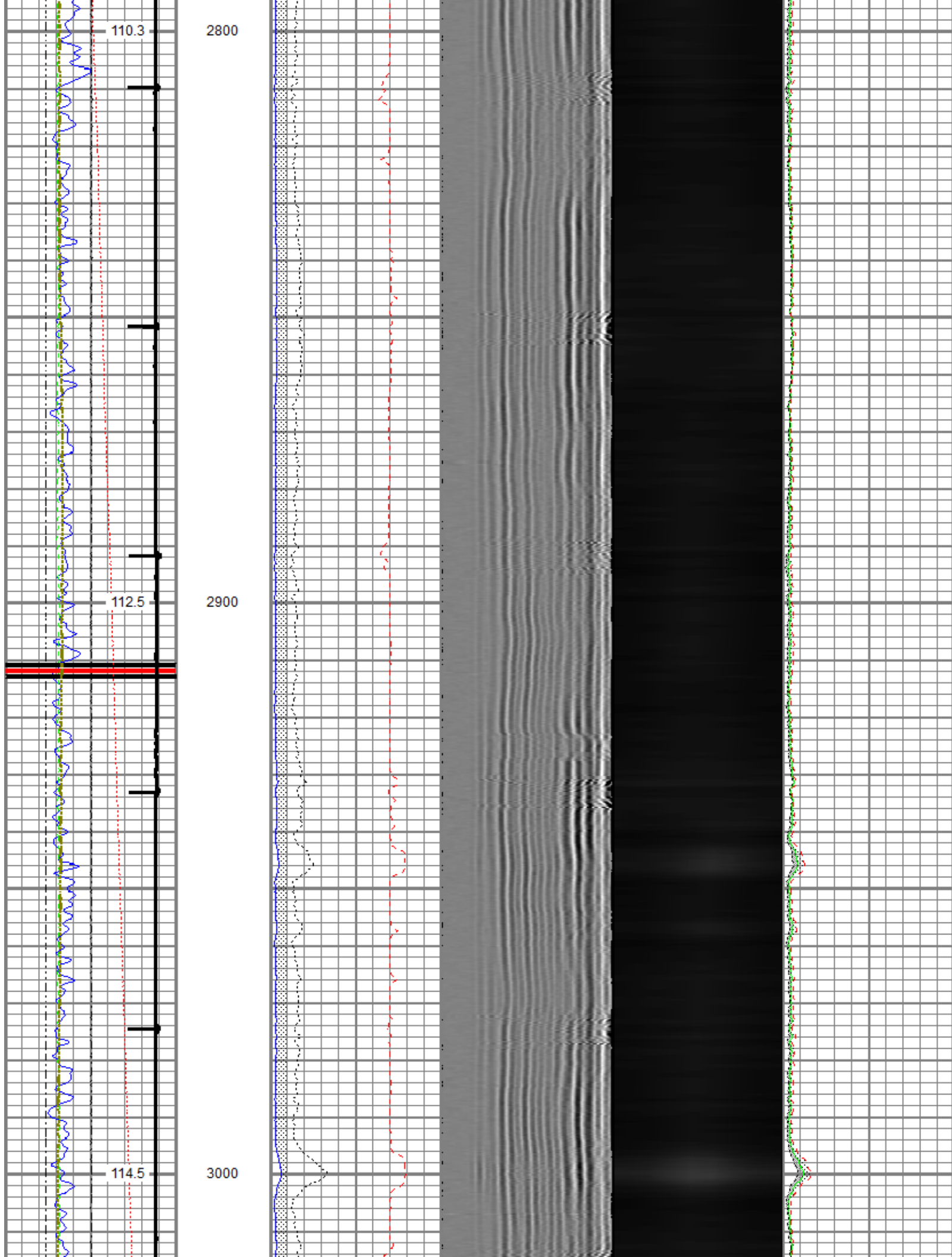
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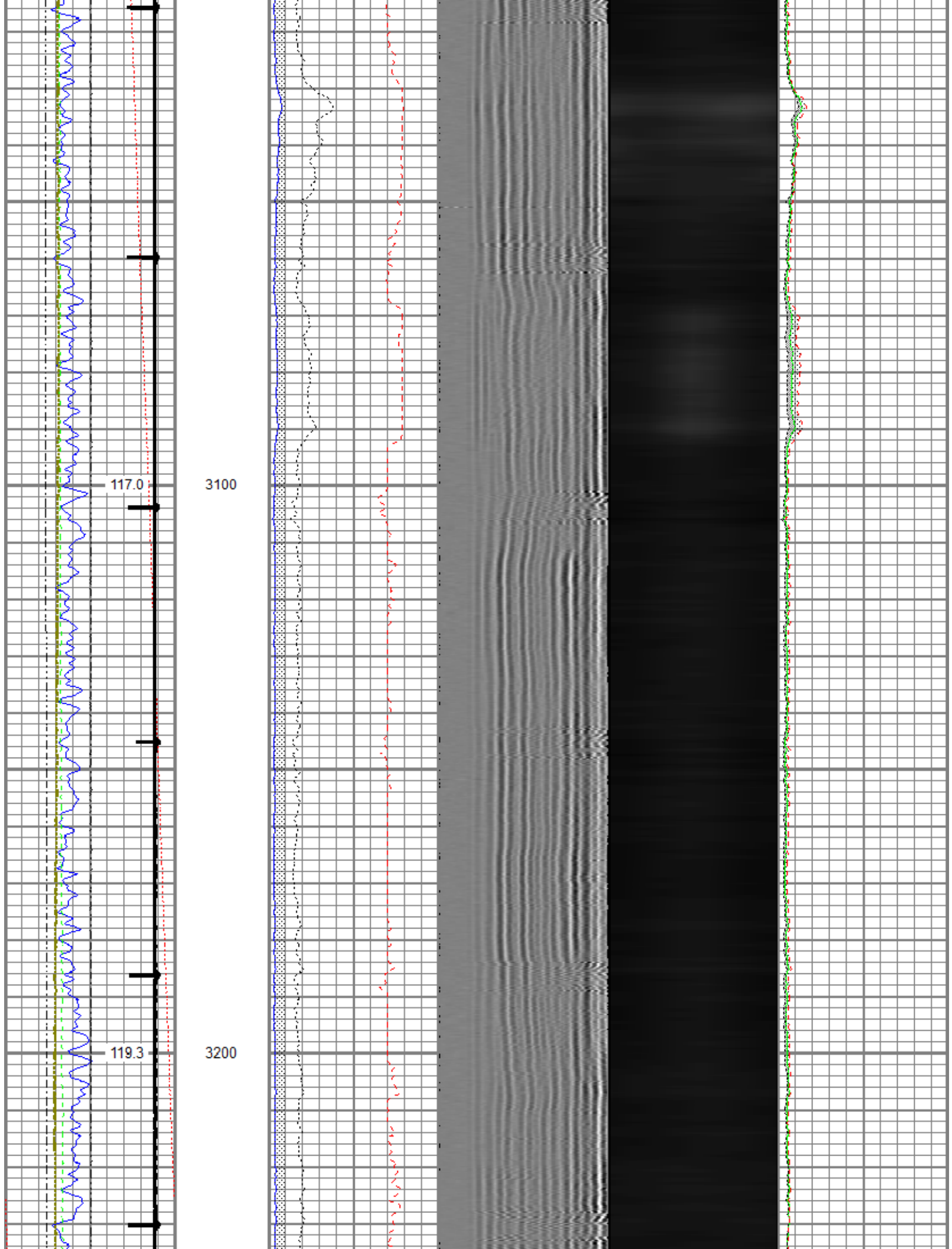
2300

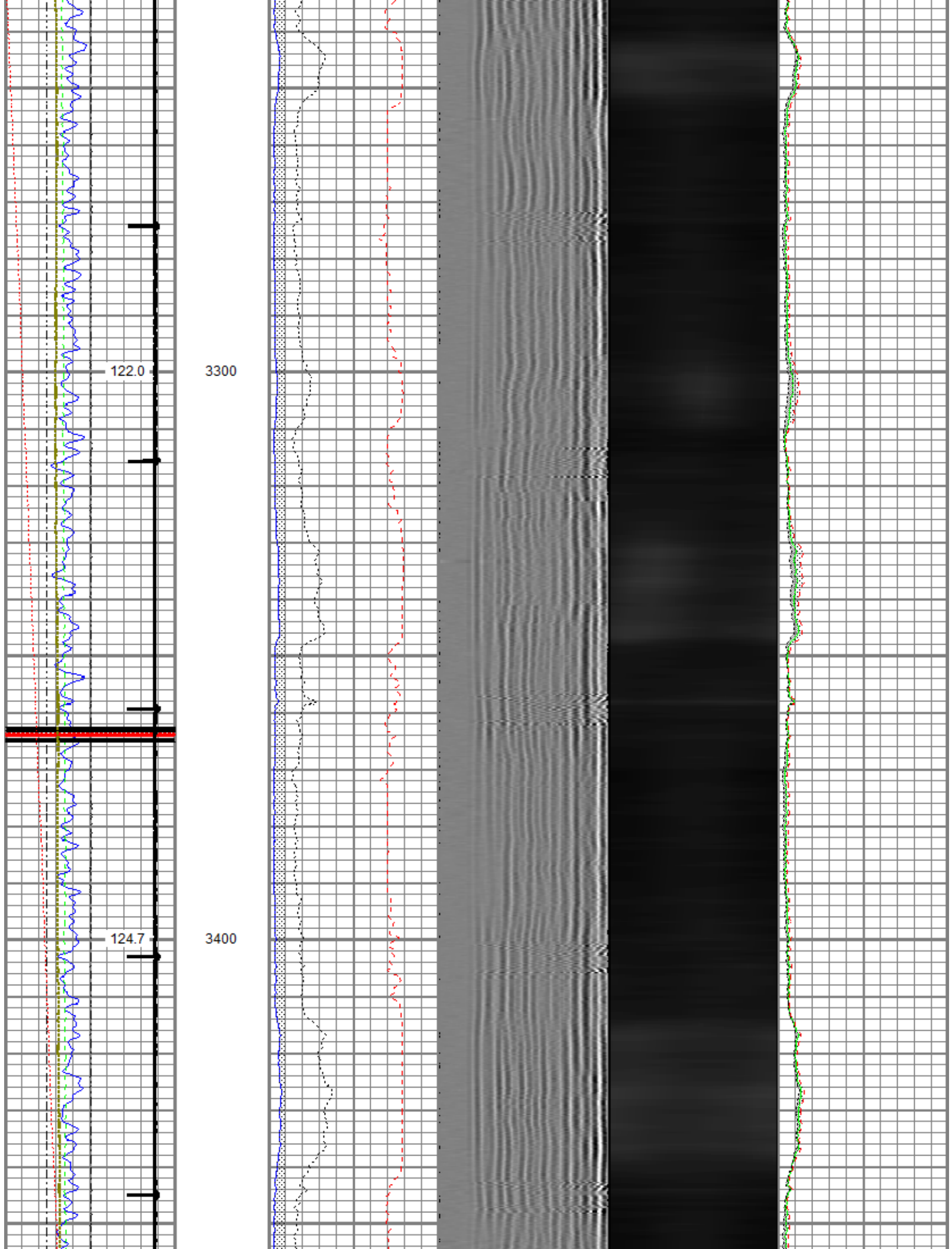


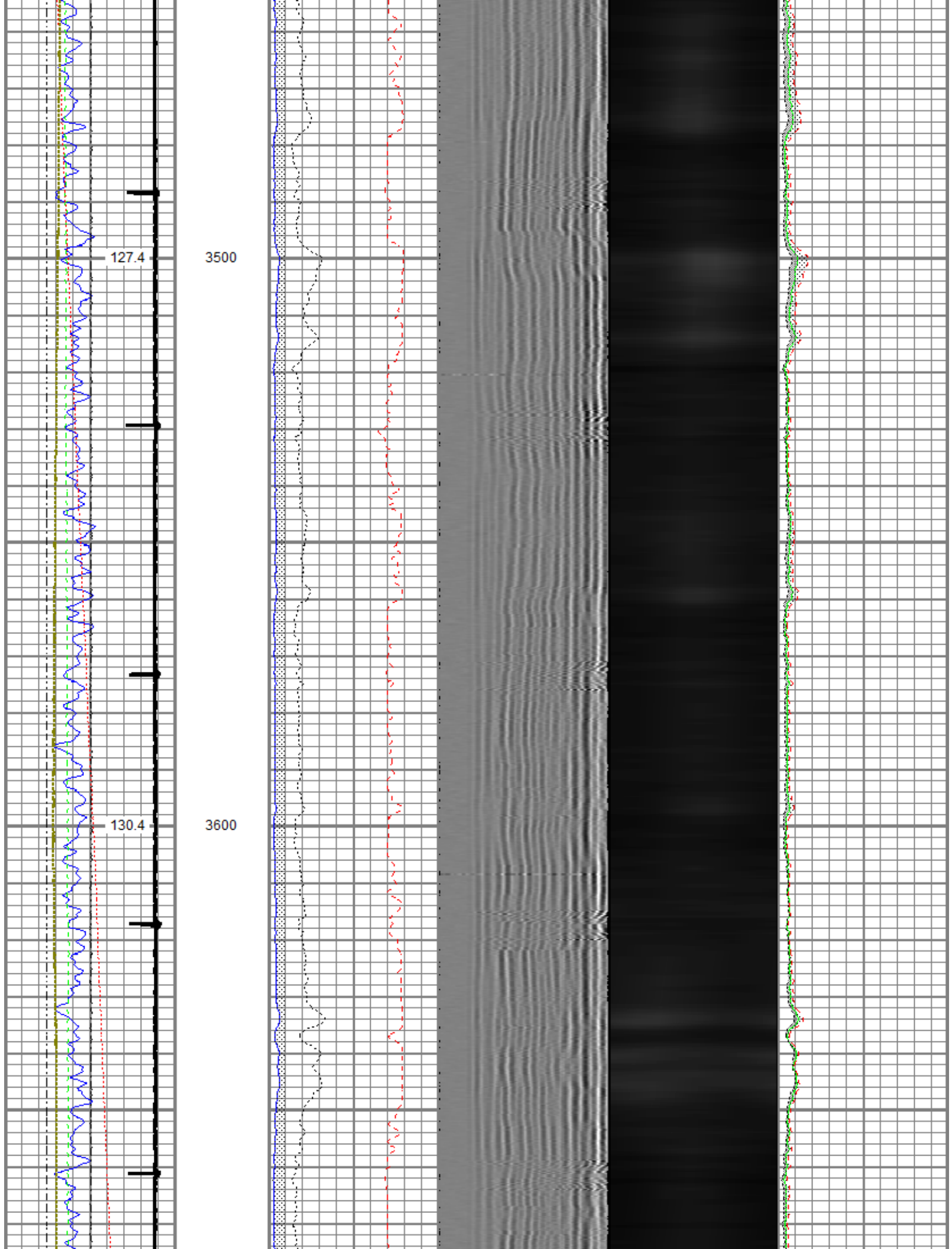


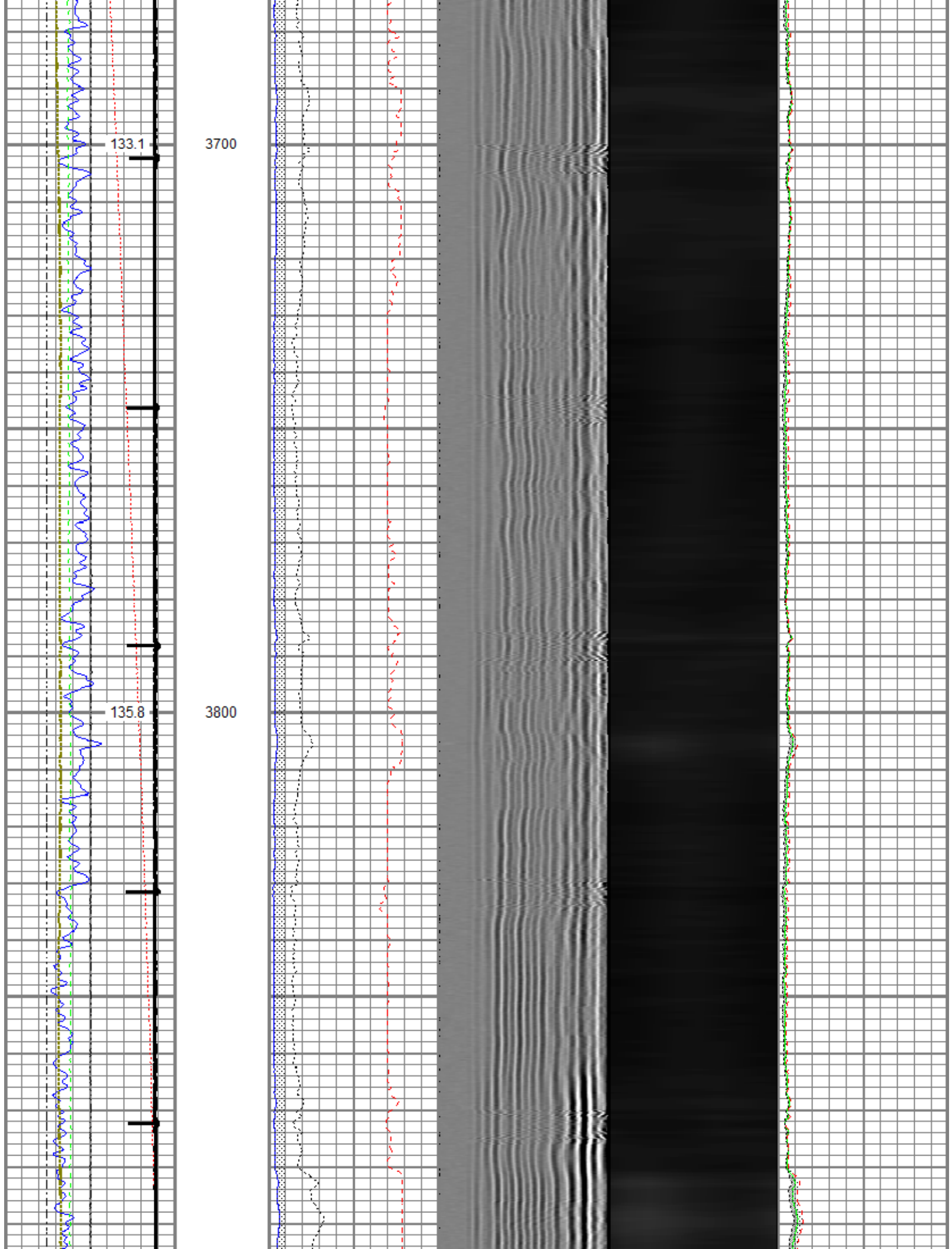


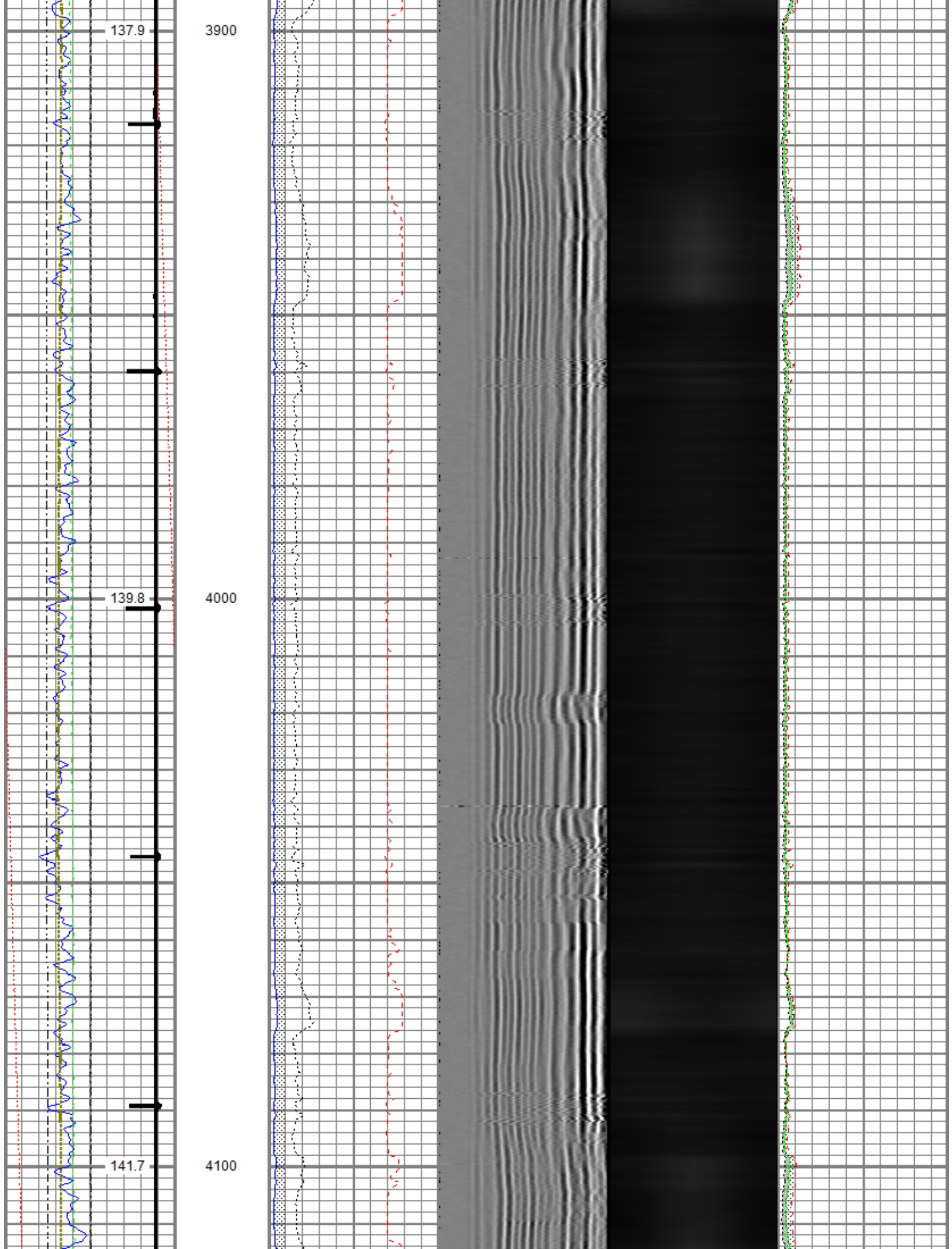


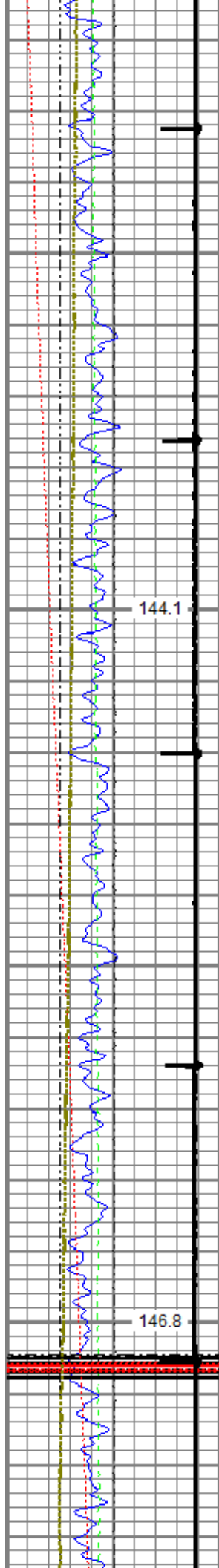






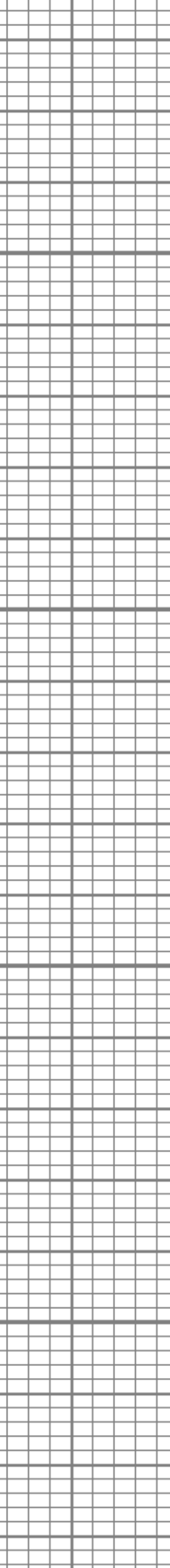
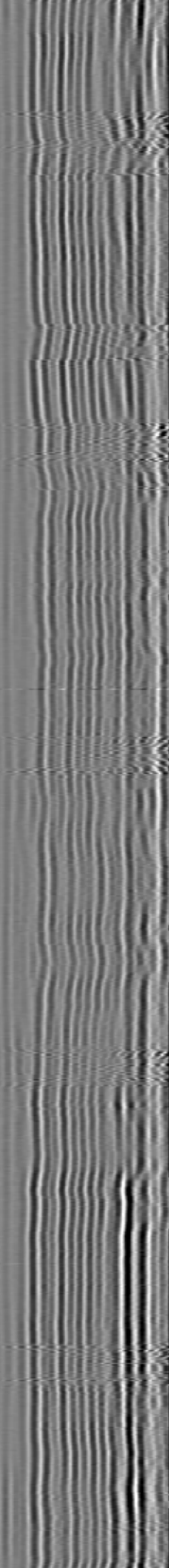
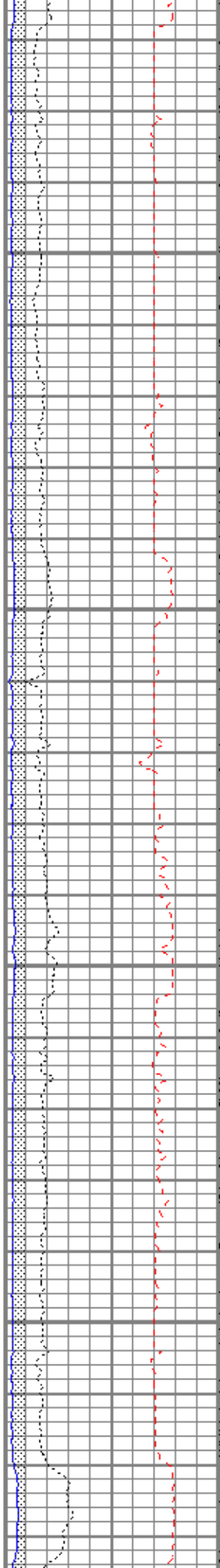


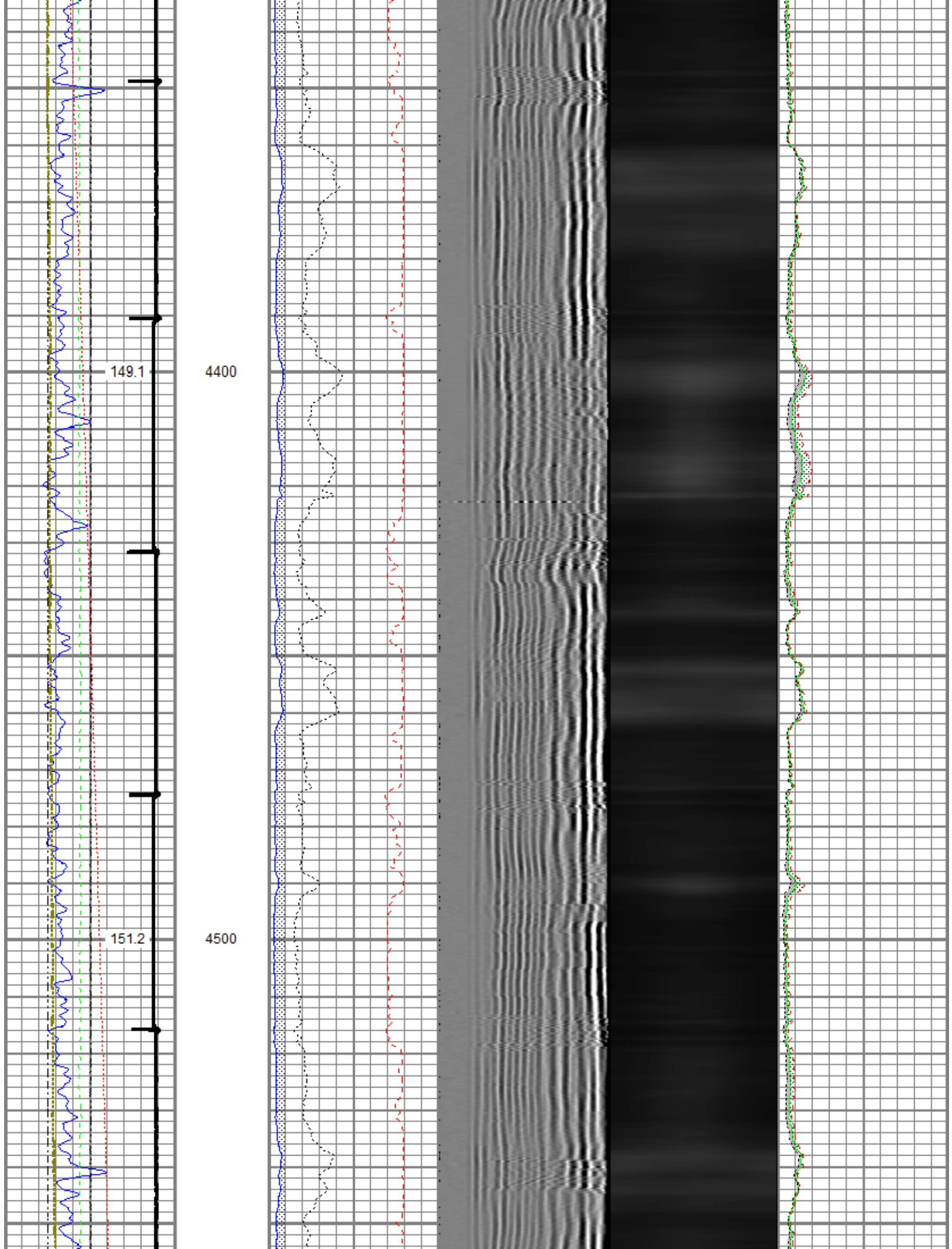


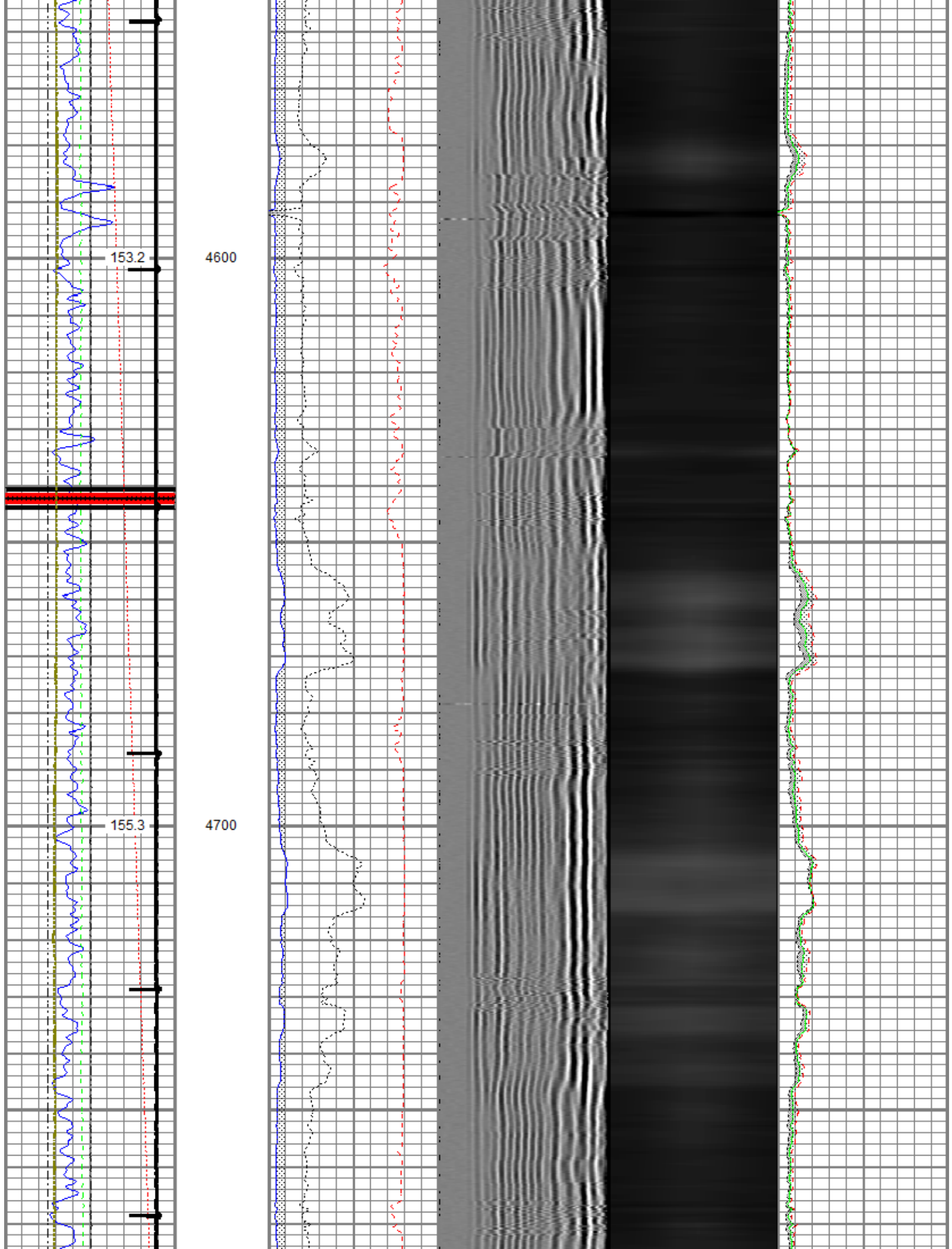


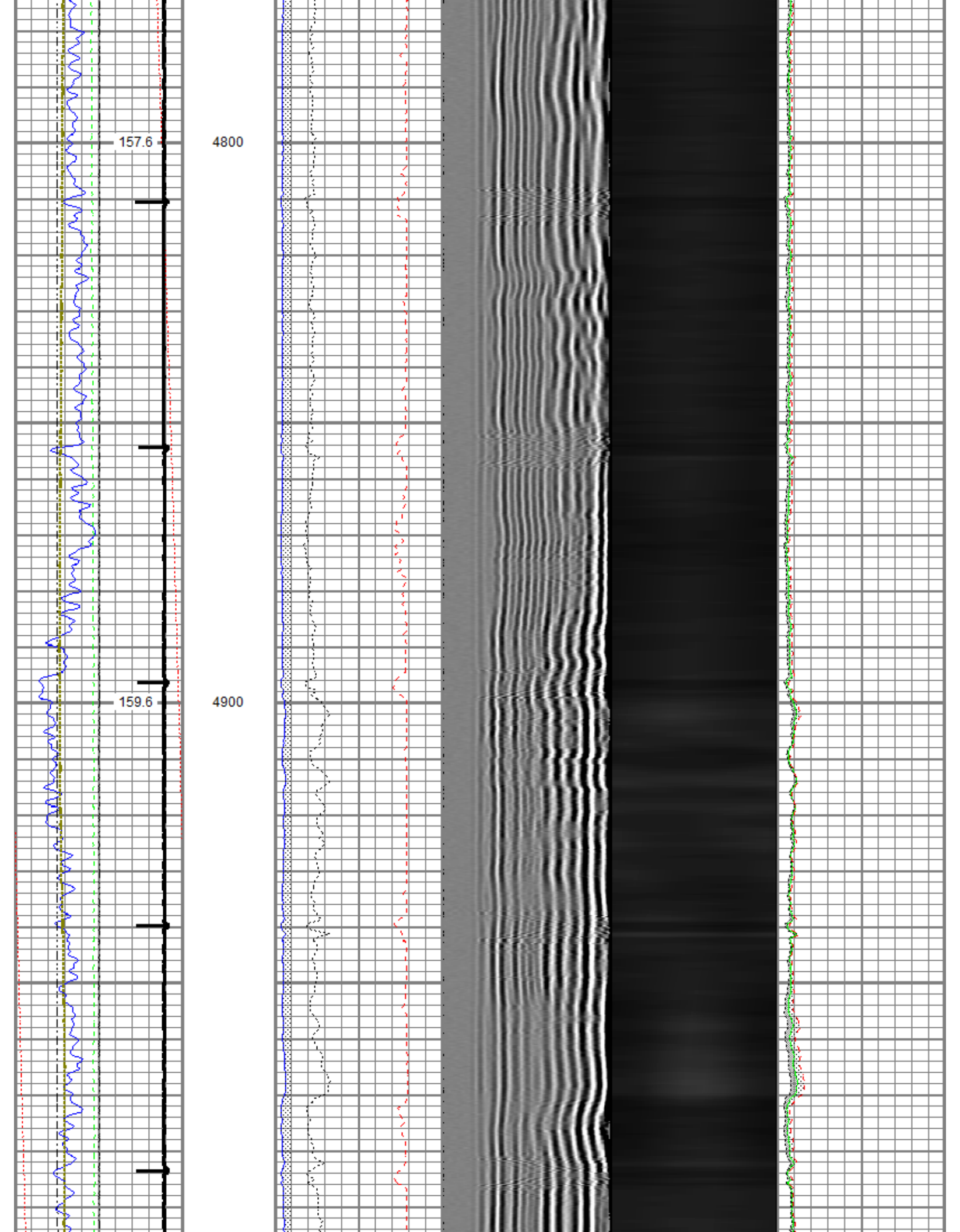
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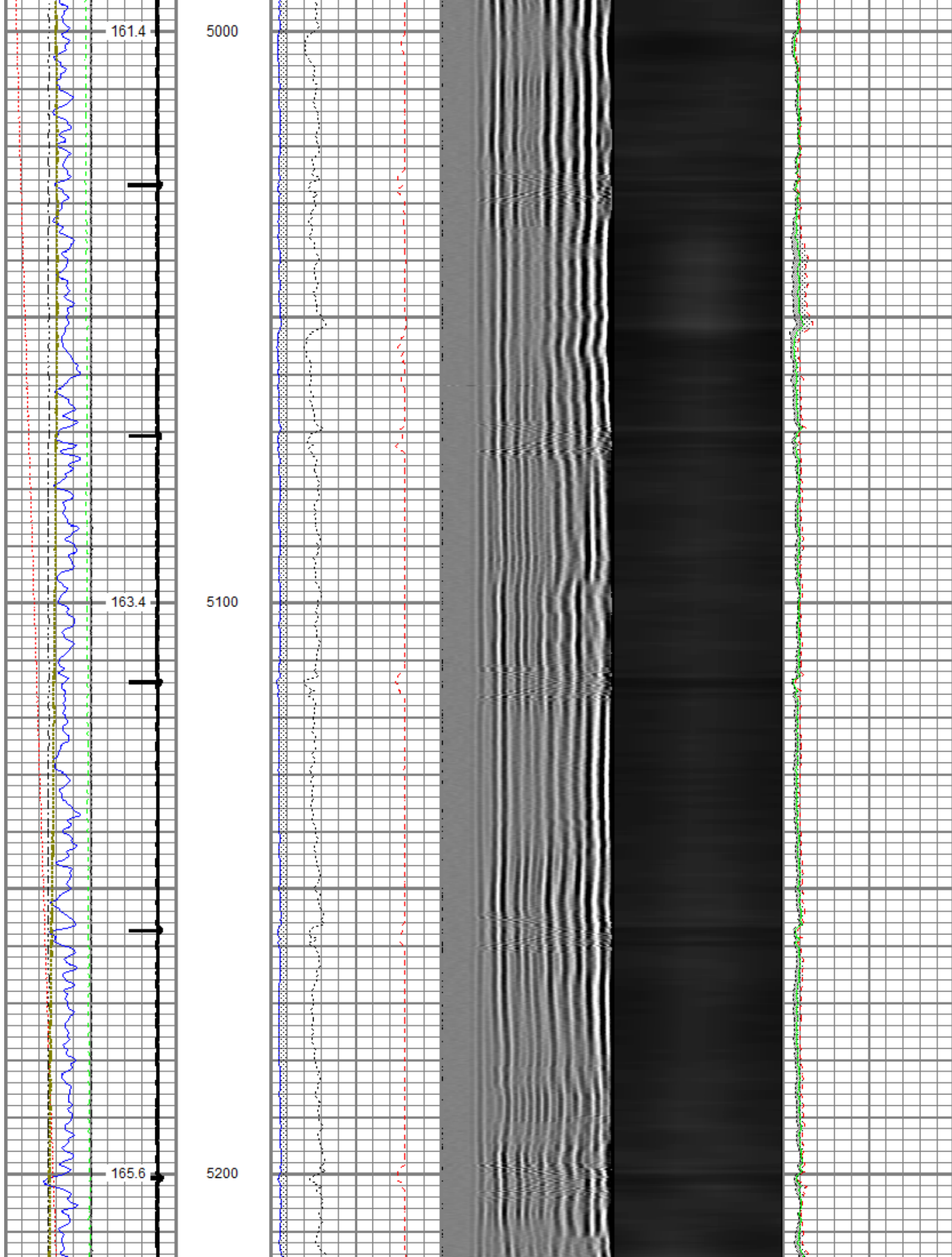
4300

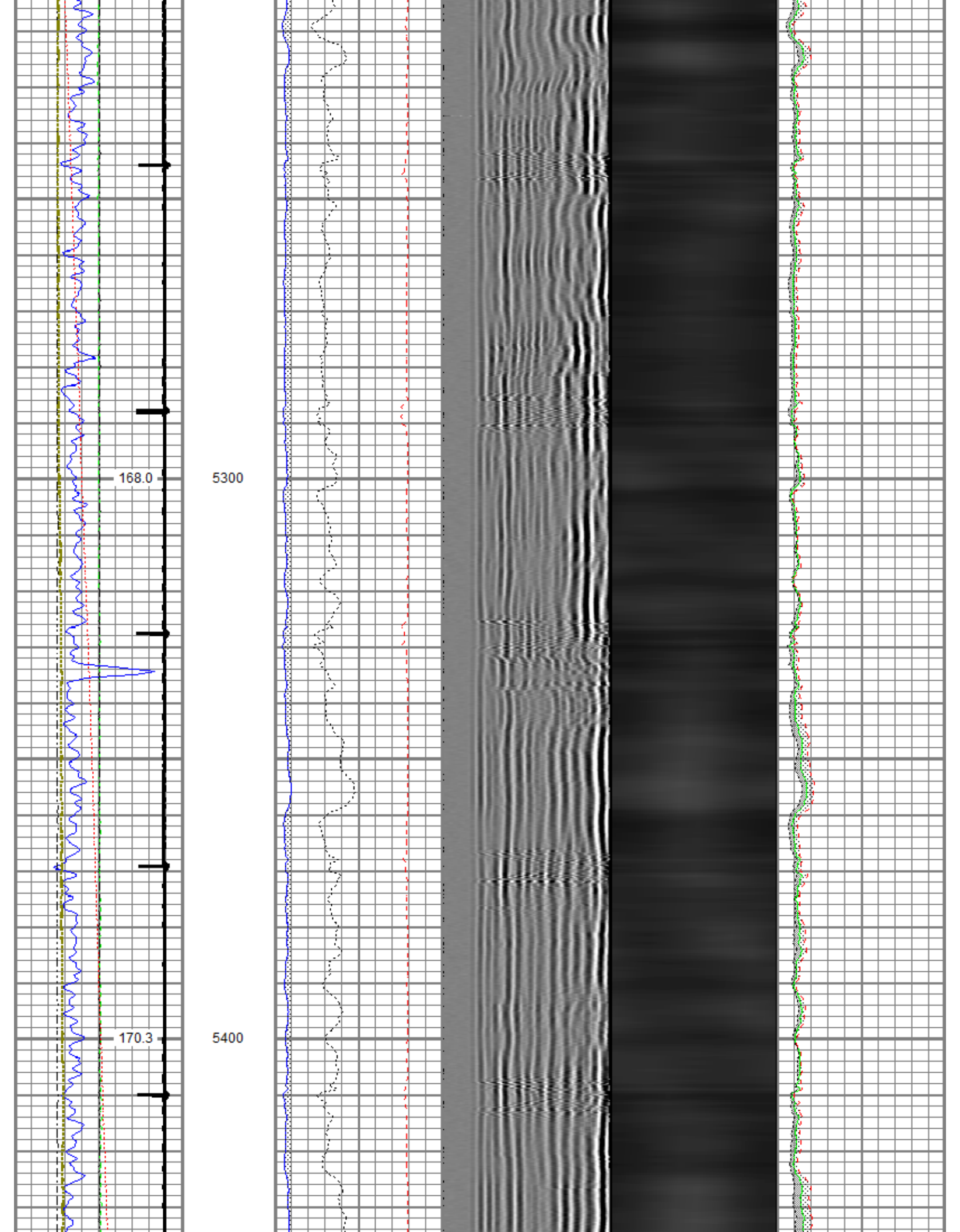


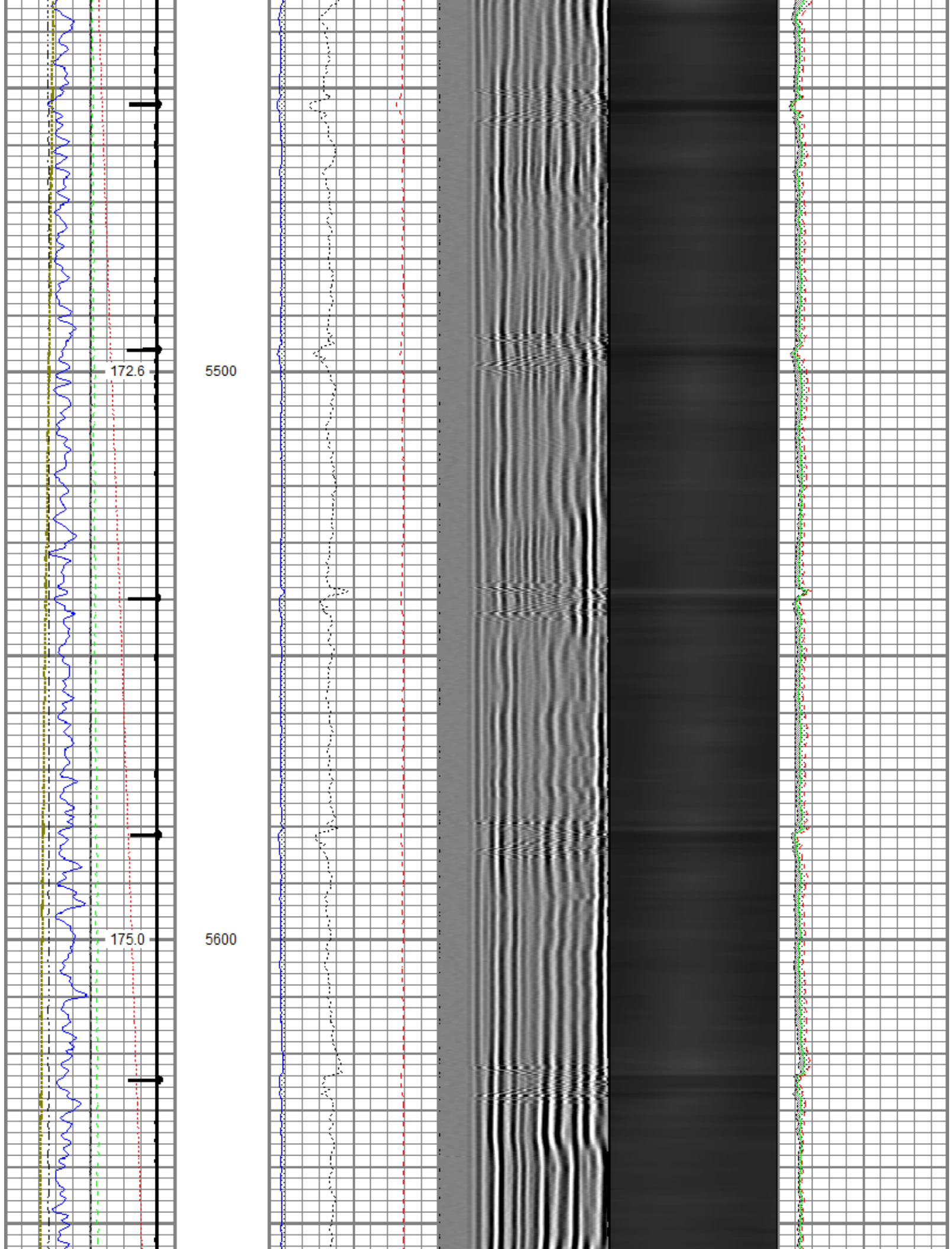


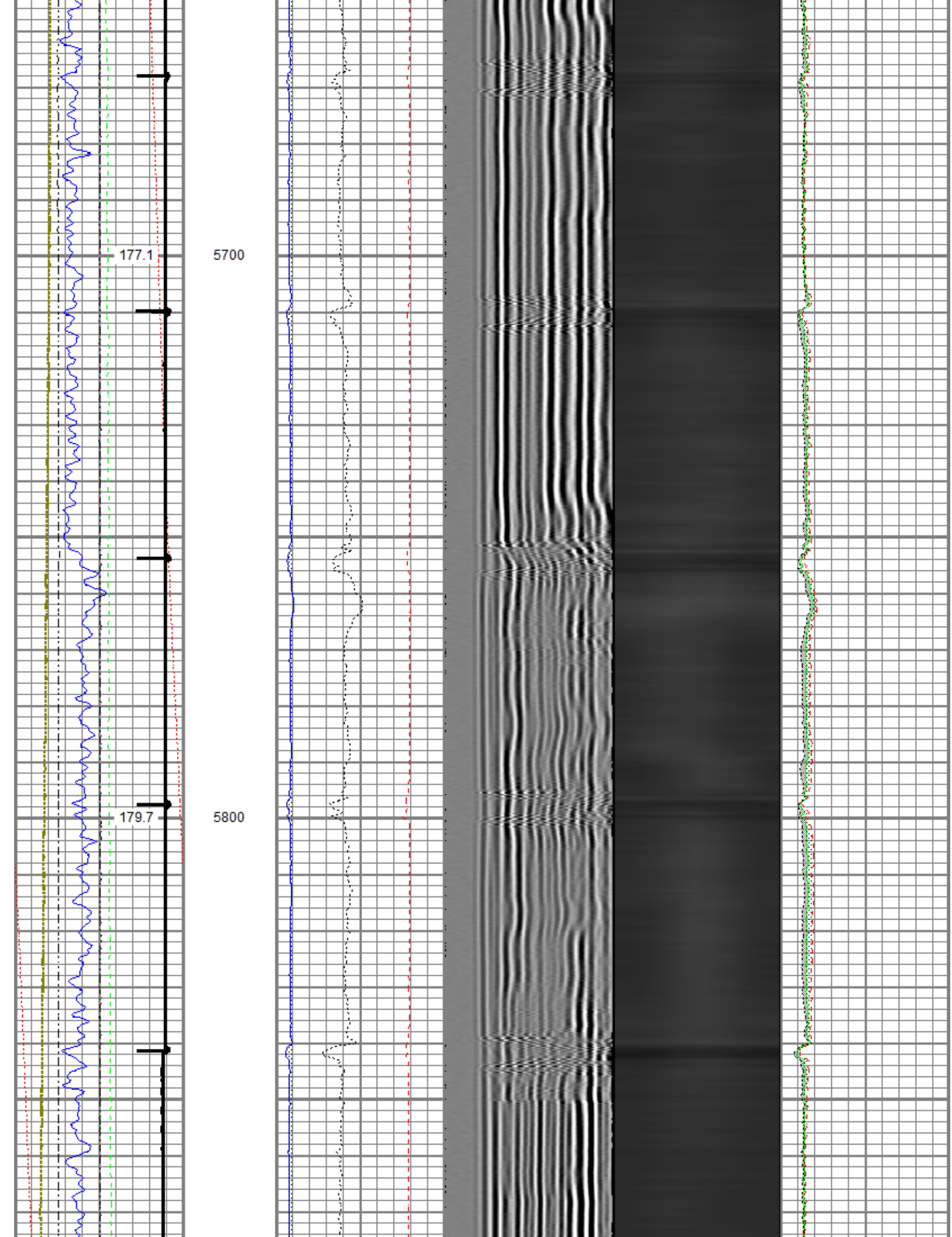


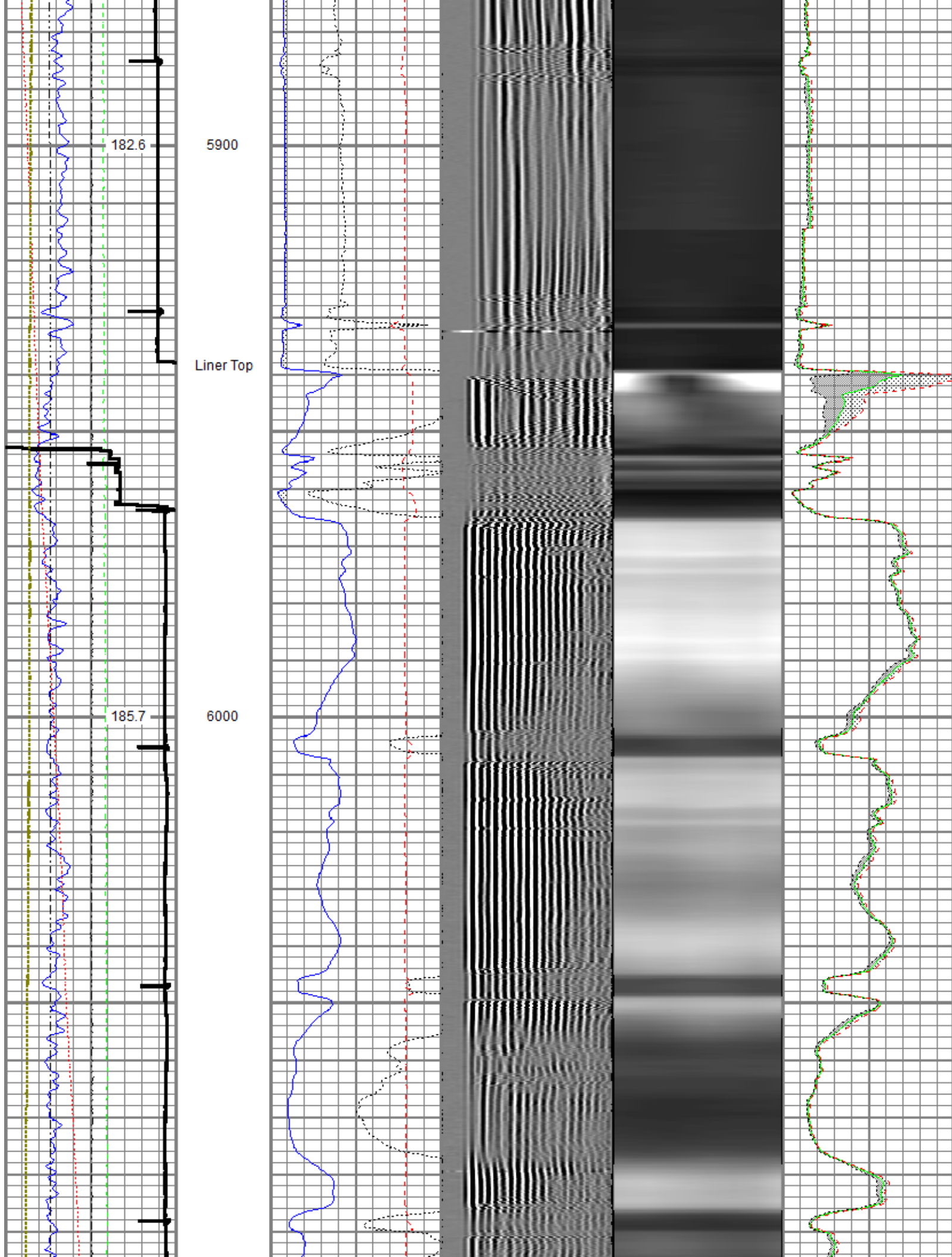


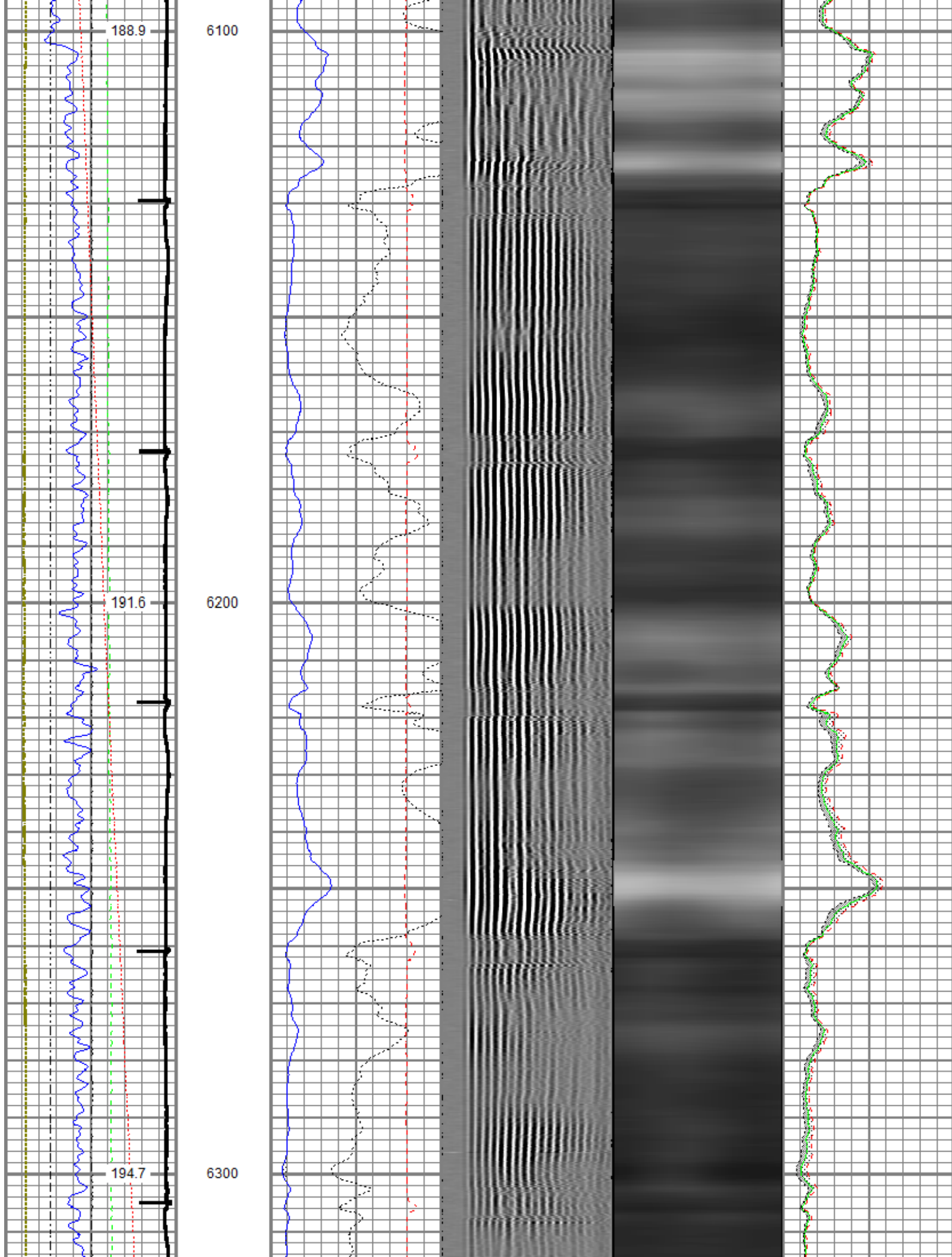


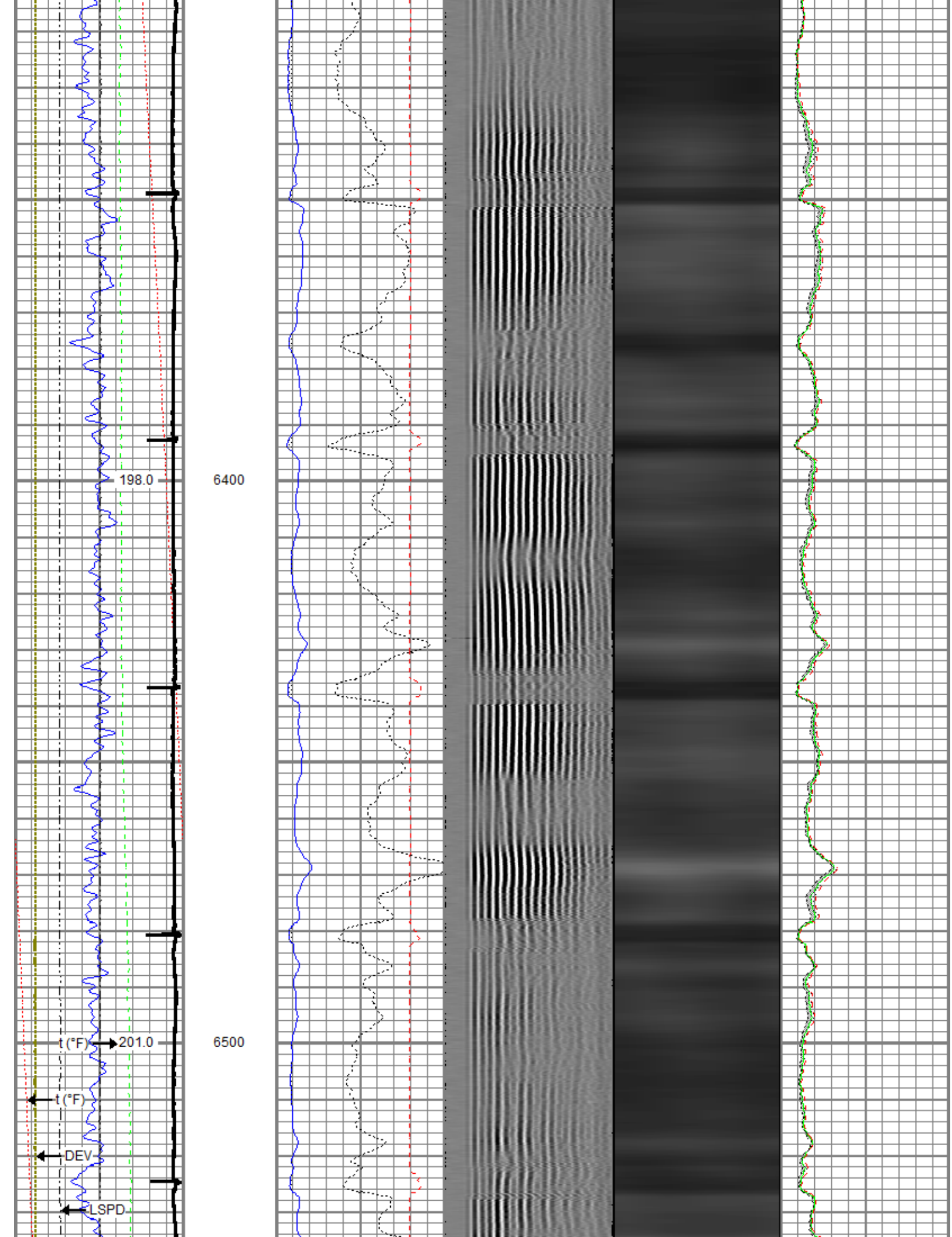


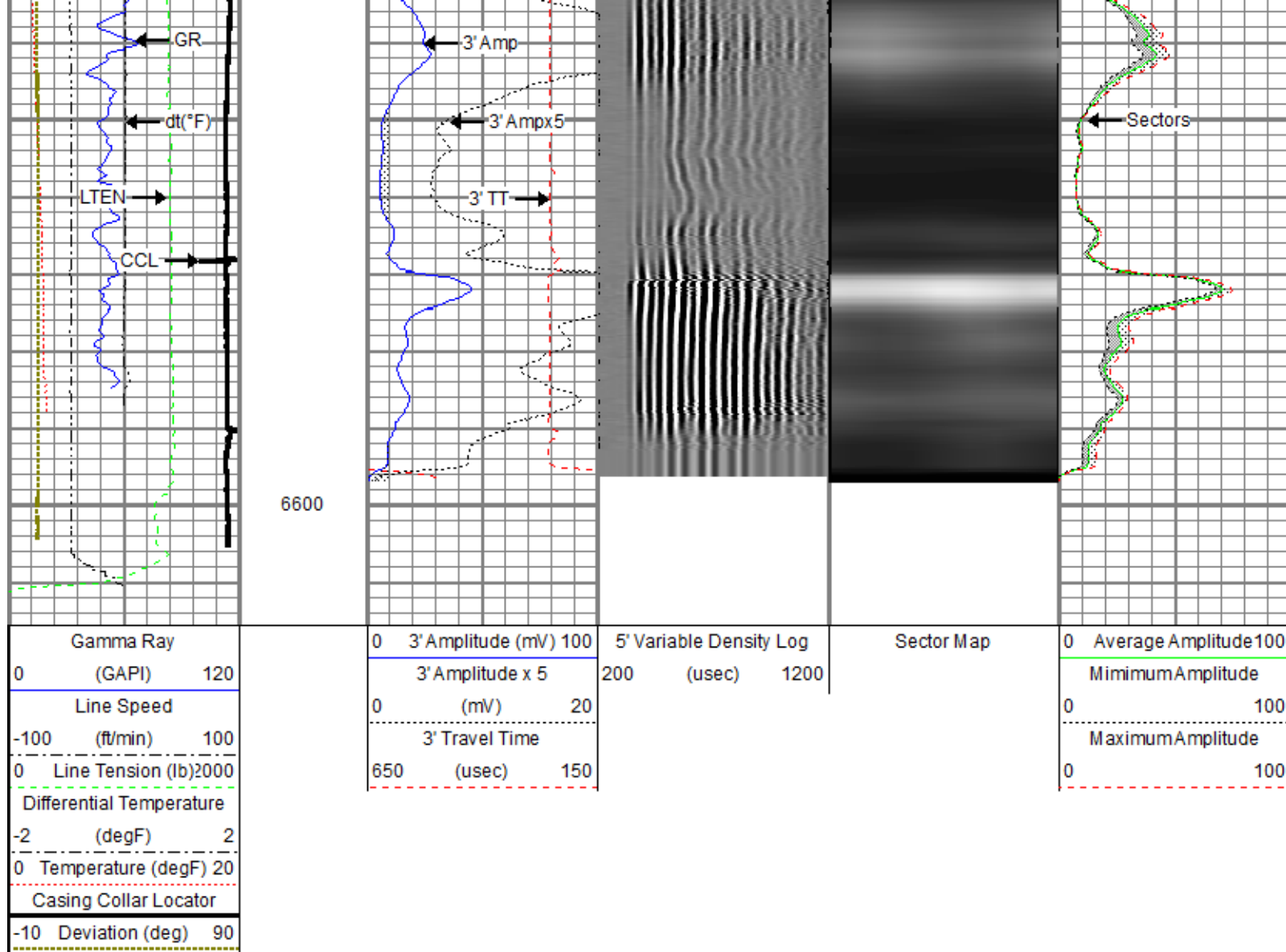








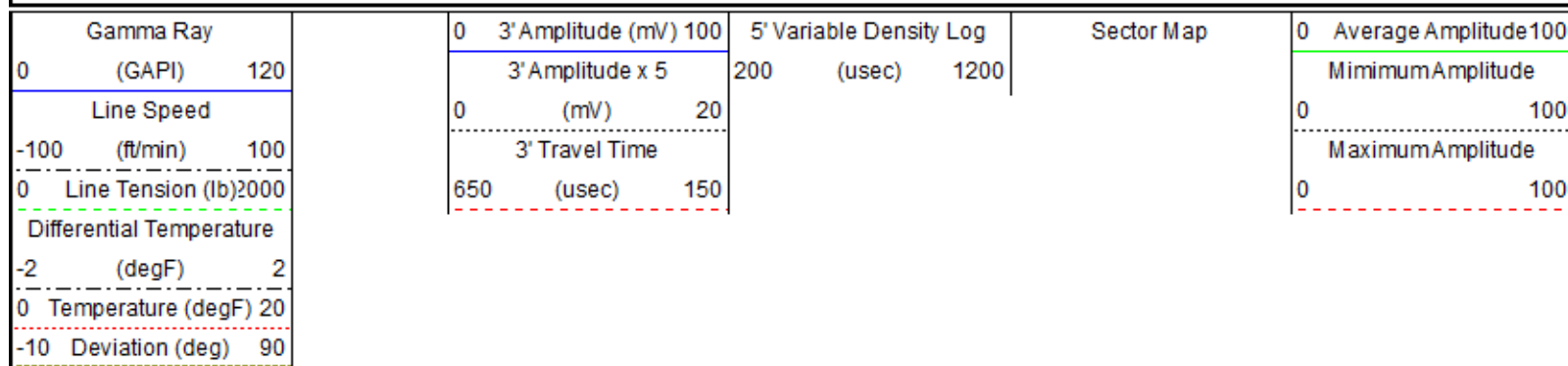


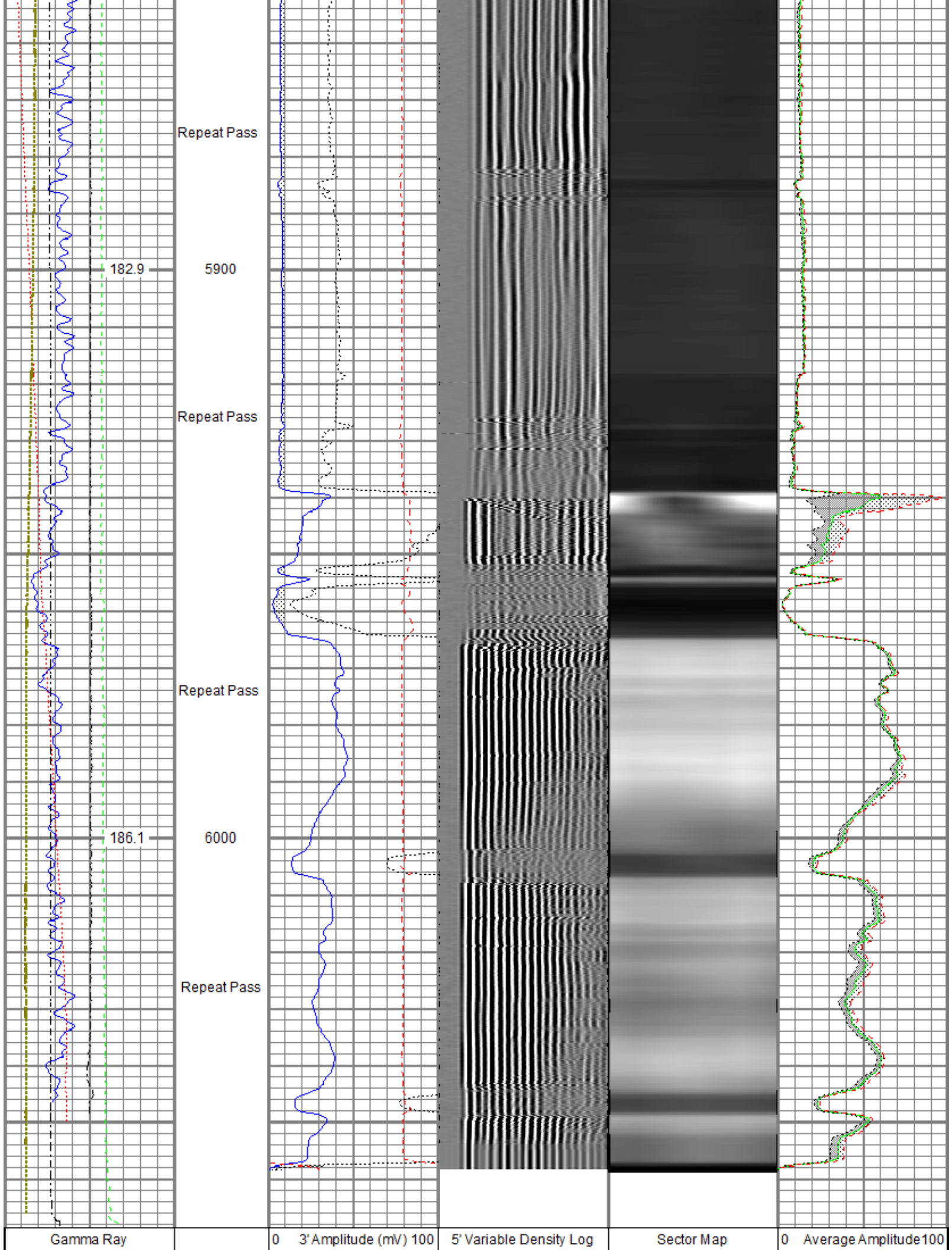


Repeat Pass

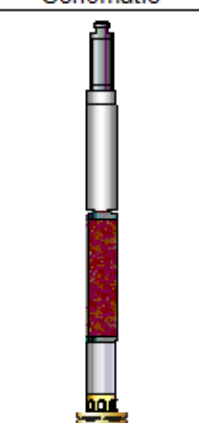
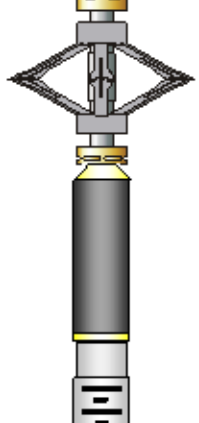
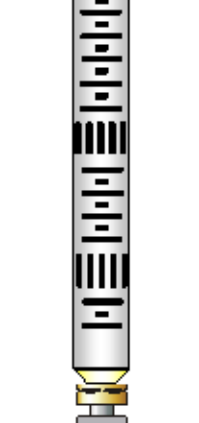
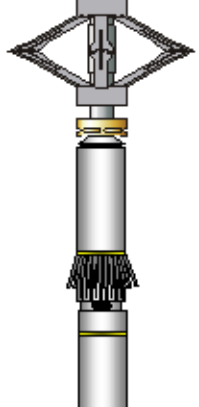
Recorded With 2800 PSI Surface Induced Pressure

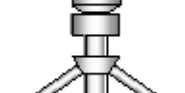
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 Dataset Pathname pass3
 Presentation Format ros_rbt_mit_sx
 Dataset Creation Mon Mar 19 08:00:45 2018
 Charted by Depth in Feet scaled 1:240





0	(GAPI)	120	3' Amplitude x 5	200	(usec)	1200	MinimumAmplitude	0	100
Line Speed			0	(mV)	20				
-100	(ft/min)	100	3' Travel Time			MaximumAmplitude			
0	Line Tension (lb)	2000	650	(usec)	150	0			
Differential Temperature									
-2	(degF)	2							
0	Temperature (degF)	20							
-10	Deviation (deg)	90							

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	23.58		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			UW AGS-001 (211461) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW XTU-002 (10017430) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
TEMP	22.18		UW PGR-020 (211727) Production Gamma Ray	1.92	1.69	9.50
			UW PRT-016 (10025100) Platinum Resistance Thermometer	1.04	1.69	5.20
CBLROT CBLTEMP WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVF3FT WVF5FT CBLTEMP	15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 14.15 10.02		UW CENT-DSS RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
			UW RBT-004 (10013454) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.48	3.13	140.00
			MIT	5.27		UW CENT-DSS RAC 5 Arm 2-3/4" Roller Centralizer
UW MIT-40 042 E (10014703) 40 Multifinger Imaging Tool Ext.	4.54	2.75				65.00

TSTAMP	0.00		UW CENT-PRC 057 4 Arm 2-3/4" Production Roller Centralizer	2.71	2.75	32.00
			UW BUL-006 (031422) Sondex Ultrawire Bullnose Terminator Sub	0.22	1.69	1.20
<p>Dataset: processed_0512344565_anadarko_newby state 26n-33hz_mit_rbl_03-19-18.db: field/well/run1/pass5</p> <p>Total length: 27.83 ft</p> <p>Total weight: 328.00 lb</p> <p>O.D.: 3.13 in</p>						

Calibration Report	
Database File	c:\programdata\warrior\data\0512344565_anadarko_newby state 26n-33hz_mit_rbl_03-19-18\processed_0512344565_anadarko
Dataset Pathname	pass5
Dataset Creation	Mon Mar 19 08:13:32 2018

Multifinger Imaging Tool Calibration Report	
Serial Number:	10014703
Number of Fingers:	40
Tool Model:	40 042 E

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:		Sun Mar 18 15:10:40 2018			
Ring size:	4		5		6		7
(in)		Sens		Sens		Sens	
Finger 01:	1104	351.0	1455	385.0	1840	397.0	2237
Finger 02:	1104	367.0	1471	404.0	1875	425.0	2300
Finger 03:	1097	356.0	1453	389.0	1842	415.0	2257
Finger 04:	1045	365.0	1410	416.0	1826	445.0	2271
Finger 05:	1078	347.0	1425	386.0	1811	407.0	2218
Finger 06:	1079	365.0	1444	402.0	1846	427.0	2273
Finger 07:	1084	362.0	1446	397.0	1843	421.0	2264
Finger 08:	1059	368.0	1427	410.0	1837	437.0	2274
Finger 09:	1137	371.0	1508	394.0	1902	408.0	2310
Finger 10:	1084	366.0	1450	396.0	1846	418.0	2264
Finger 11:	1053	364.0	1417	400.0	1817	427.0	2244
Finger 12:	1145	360.0	1505	374.0	1879	386.0	2265
Finger 13:	1082	359.0	1441	393.0	1834	422.0	2256
Finger 14:	1044	373.0	1417	410.0	1827	437.0	2264
Finger 15:	1001	372.0	1373	414.0	1787	444.0	2231
Finger 16:	1050	367.0	1417	399.0	1816	429.0	2245
Finger 17:	1084	361.0	1445	386.0	1831	405.0	2236
Finger 18:	1105	362.0	1467	389.0	1856	411.0	2267
Finger 19:	1065	370.0	1435	399.0	1834	419.0	2253
Finger 20:	973	368.0	1341	408.0	1749	434.0	2183
Finger 21:	1053	359.0	1412	395.0	1807	420.0	2227
Finger 22:	1046	364.0	1410	397.0	1807	419.0	2226
Finger 23:	1078	365.0	1443	396.0	1839	418.0	2257
Finger 24:	1061	332.0	1393	362.0	1755	388.0	2143
Finger 25:	1068	369.0	1437	402.0	1839	416.0	2255
Finger 26:	1004	352.0	1356	392.0	1748	416.0	2164
Finger 27:	1177	376.0	1553	400.0	1953	417.0	2370
Finger 28:	1052	339.0	1399	379.0	1779	419.0	2199

		Performed:				Sun Mar 18 15:10:40 2018	
Ring size:	4		5		6	7	
(in)		Sens		Sens		Sens	
Finger 01:	1104	351.0	1455	385.0	1840	397.0	2237
Finger 02:	1104	367.0	1471	404.0	1875	425.0	2300
Finger 03:	1097	356.0	1453	389.0	1842	415.0	2257
Finger 04:	1045	365.0	1410	416.0	1826	445.0	2271
Finger 05:	1078	347.0	1425	386.0	1811	407.0	2218
Finger 06:	1079	365.0	1444	402.0	1846	427.0	2273
Finger 07:	1084	362.0	1446	397.0	1843	421.0	2264
Finger 08:	1059	368.0	1427	410.0	1837	437.0	2274
Finger 09:	1137	371.0	1508	394.0	1902	408.0	2310
Finger 10:	1084	366.0	1450	396.0	1846	418.0	2264
Finger 11:	1053	364.0	1417	400.0	1817	427.0	2244
Finger 12:	1145	360.0	1505	374.0	1879	386.0	2265
Finger 13:	1082	359.0	1441	393.0	1834	422.0	2256
Finger 14:	1044	373.0	1417	410.0	1827	437.0	2264
Finger 15:	1001	372.0	1373	414.0	1787	444.0	2231
Finger 16:	1050	367.0	1417	399.0	1816	429.0	2245
Finger 17:	1084	361.0	1445	386.0	1831	405.0	2236
Finger 18:	1105	362.0	1467	389.0	1856	411.0	2267
Finger 19:	1065	370.0	1435	399.0	1834	419.0	2253
Finger 20:	973	368.0	1341	408.0	1749	434.0	2183
Finger 21:	1053	359.0	1412	395.0	1807	420.0	2227
Finger 22:	1046	364.0	1410	397.0	1807	419.0	2226
Finger 23:	1078	365.0	1443	396.0	1839	418.0	2257
Finger 24:	1061	332.0	1393	362.0	1755	388.0	2143
Finger 25:	1068	369.0	1437	402.0	1839	416.0	2255
Finger 26:	1004	352.0	1356	392.0	1748	416.0	2164
Finger 27:	1177	376.0	1553	400.0	1953	417.0	2370
Finger 28:	1052	339.0	1399	379.0	1779	419.0	2199

Finger 28:	1053	339.0	1392	378.0	1770	412.0	2182
Finger 29:	1022	353.0	1375	401.0	1776	427.0	2203
Finger 30:	1009	350.0	1359	400.0	1759	431.0	2190
Finger 31:	1236	376.0	1612	407.0	2019	423.0	2442
Finger 32:	1004	350.0	1354	383.0	1737	407.0	2144
Finger 33:	1105	379.0	1484	416.0	1900	428.0	2328
Finger 34:	995	349.0	1344	391.0	1735	420.0	2155
Finger 35:	1156	376.0	1532	412.0	1944	423.0	2367
Finger 36:	1083	338.0	1421	374.0	1795	393.0	2188
Finger 37:	1165	374.0	1539	411.0	1950	429.0	2379
Finger 38:	1136	348.0	1484	382.0	1866	401.0	2267
Finger 39:	1083	334.0	1417	366.0	1783	386.0	2169
Finger 40:	1016	361.0	1377	409.0	1786	434.0	2220

Segmented Cement Bond Log Calibration Report

Serial Number: 10013454
Tool Model: 004

Calibration Casing Diameter: 7.000 in
Calibration Depth: 33.086 ft

Master Calibration, performed Sun Mar 18 15:26:39 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	1.228	0.800	62.165	49.984	0.800
5FT	-0.015	1.009	0.800	62.165	59.966	1.681
S1	-0.001	1.002	0.000	100.000	99.726	0.080
S2	-0.001	0.994	0.000	100.000	100.542	0.058
S3	-0.001	0.978	0.000	100.000	102.142	0.088
S4	-0.001	0.991	0.000	100.000	100.864	0.086
S5	-0.001	0.941	0.000	100.000	106.192	0.066
S6	-0.001	0.958	0.000	100.000	104.339	0.066
S7	-0.000	0.963	0.000	100.000	103.750	0.052
S8	-0.001	0.977	0.000	100.000	102.240	0.062

Temperature Calibration Report

Serial Number: 10025100
Tool Model: 016
Performed: Sun Nov 12 14:30:03 2017

Point #	Reading		Reference	
1	13249.00	cps	68.00	degF
2	18454.00	cps	104.00	degF
3	29735.00	cps	176.00	degF
4	41457.00	cps	248.00	degF
5	52851.00	cps	320.00	degF
6	59128.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 211727
Tool Model: 020
Performed: Sun Nov 12 06:37:04 2017

Calibrator Value: 637.0 GAPI

Background Reading: 78.8 cps
Calibrator Reading: 1069.9 cps

Sensitivity: 0.6427 GAPI/cps



Company

Kerr-McGee Oil & Gas Onshore, L.P.

Well

Newby State 26N-33HZ

Field

Wattenberg

County

Weld

State

Colorado