



Casing Inspection Log
Magnetic Thickness
Radial Bond Log

Company		Whiting Oil & Gas	
Well		Church 36-2523H	
Field		Wildcat	
County		Weld	
State		Colorado	
Location:		API # : 05-123-36053	
SEC 36 TWP 10N RGE 60W		SE 14 of SW 1/4 of	
Permanent Datum		GL	
Log Measured From		KB = 16.5' AGL	
Drilling Measured From		KB	
Elevation		5194.5'	
Other Services		RBT	
Date		13 March 2013	
Run Number		One	
Depth Driller		12809'	
Depth Logger		5,445'	
Bottom Logged Interval		5720'	
Top Log Interval		Surface	
Open Hole Size		8.75"	
Type Fluid		Water	
Density / Viscosity		8.34 Lb/Gal	
Max. Recorded Temp.		Not Recorded	
Estimated Cement Top		N/A	
Time Well Ready		ROA	
Time Logger on Bottom		10:30	
Equipment Number		HD 0134	
Location		Ft. Lupton, CO.	
Recorded By		S. Anderson	
Witnessed By		M. Staab	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		9.625"	
Prot. String		36# J-55	
Production String		29# P-110	
Liner		4.5"	
Mgt/Ft		Top	
SURFACE		Bottom	
5779'		1560'	
6865'		12799'	

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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

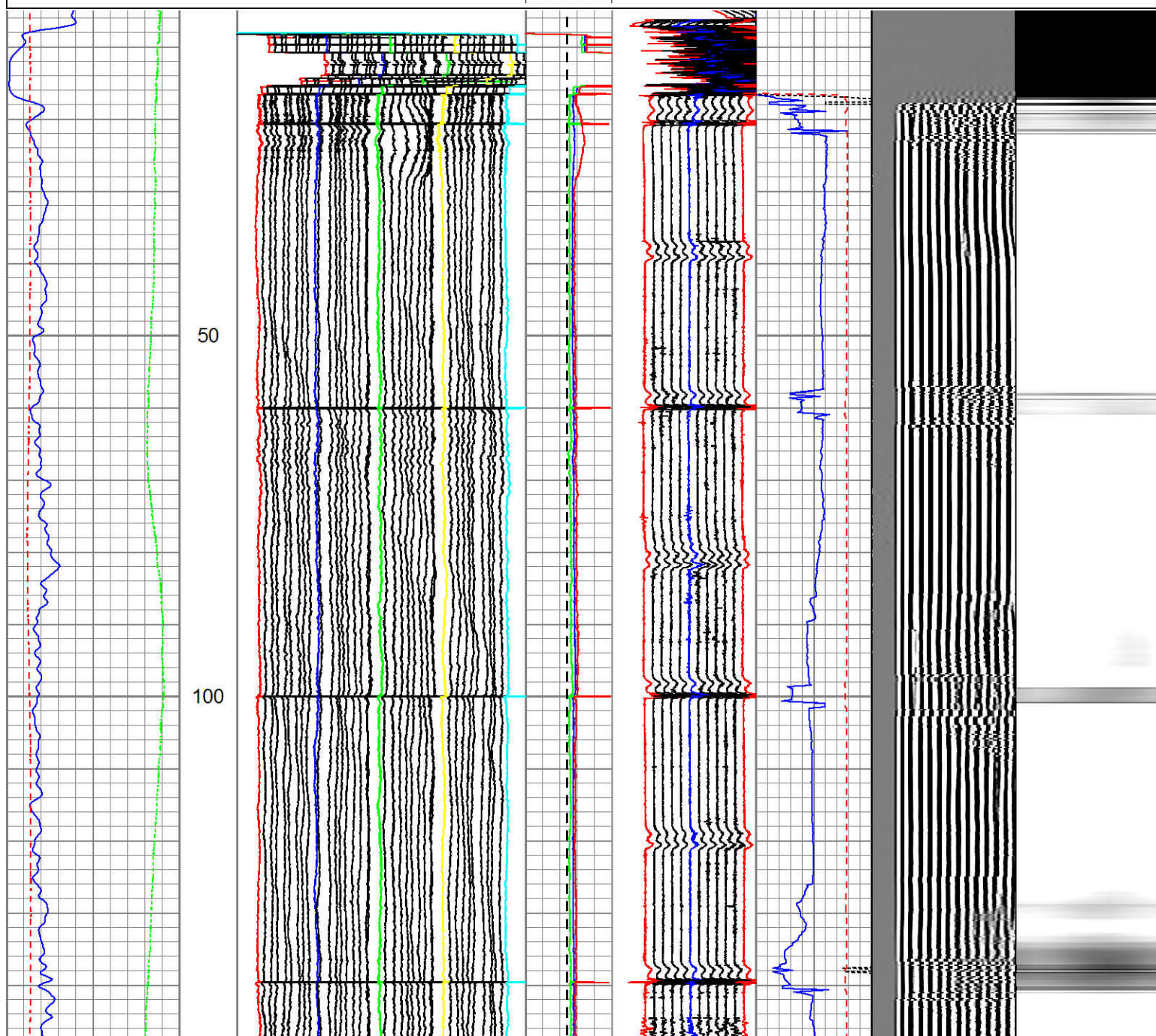
Correlated to K.B.
Log was run with realtime eccentricity correction.
Well was plugged back to 5730' while logging.

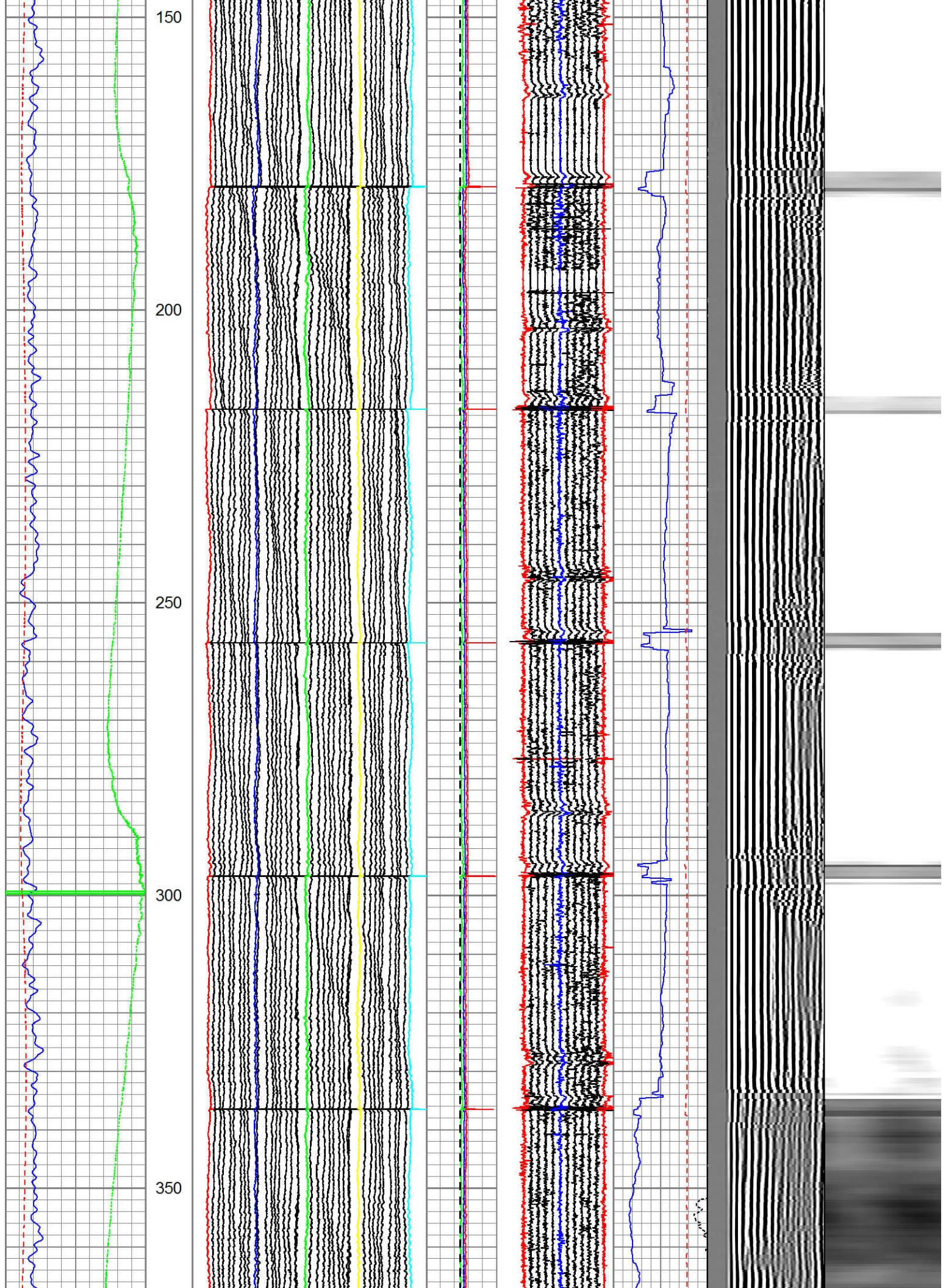
Thank You for Choosing FMC Technologies Completion Services

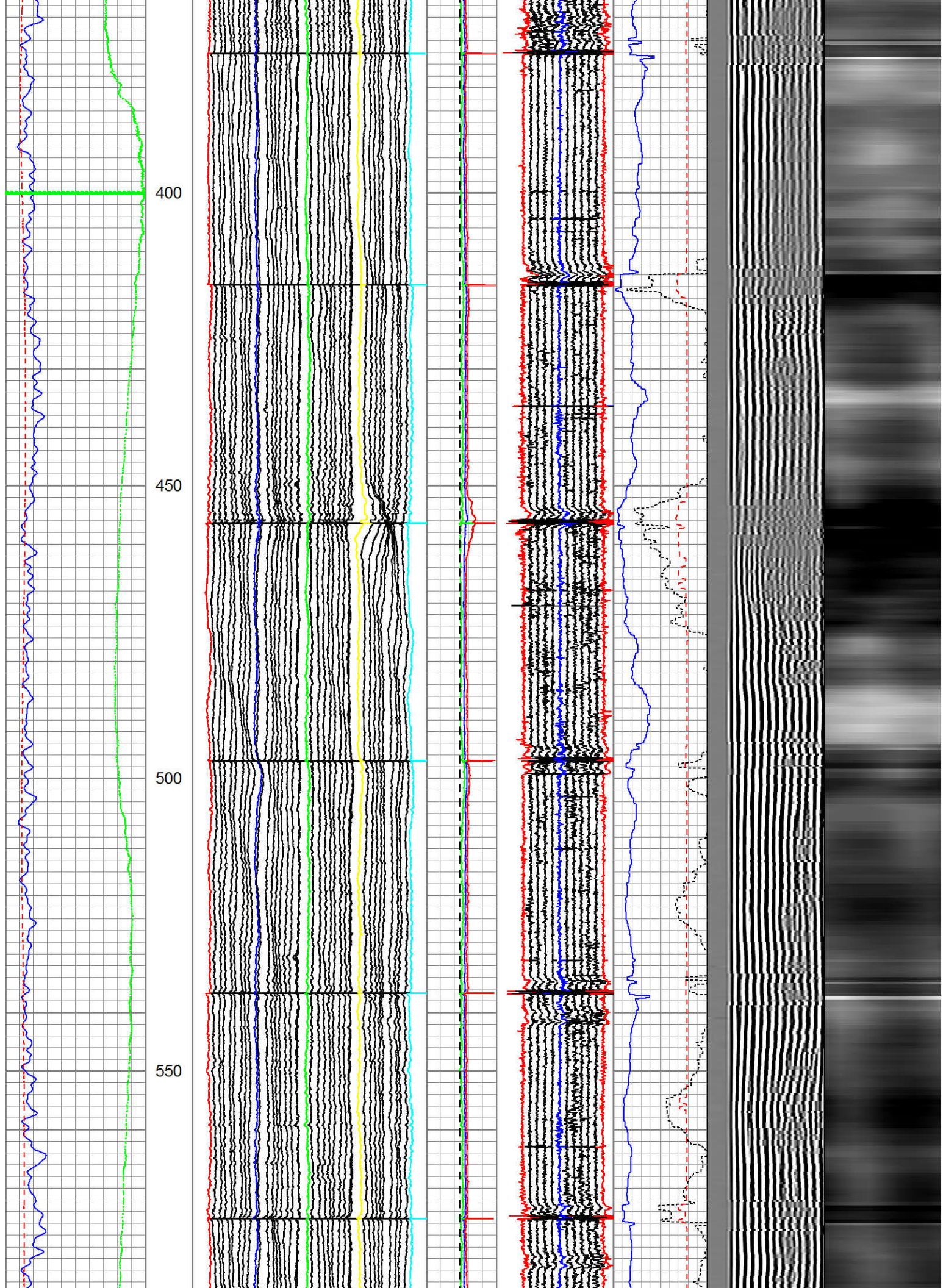
Main Pass 1500 PSI

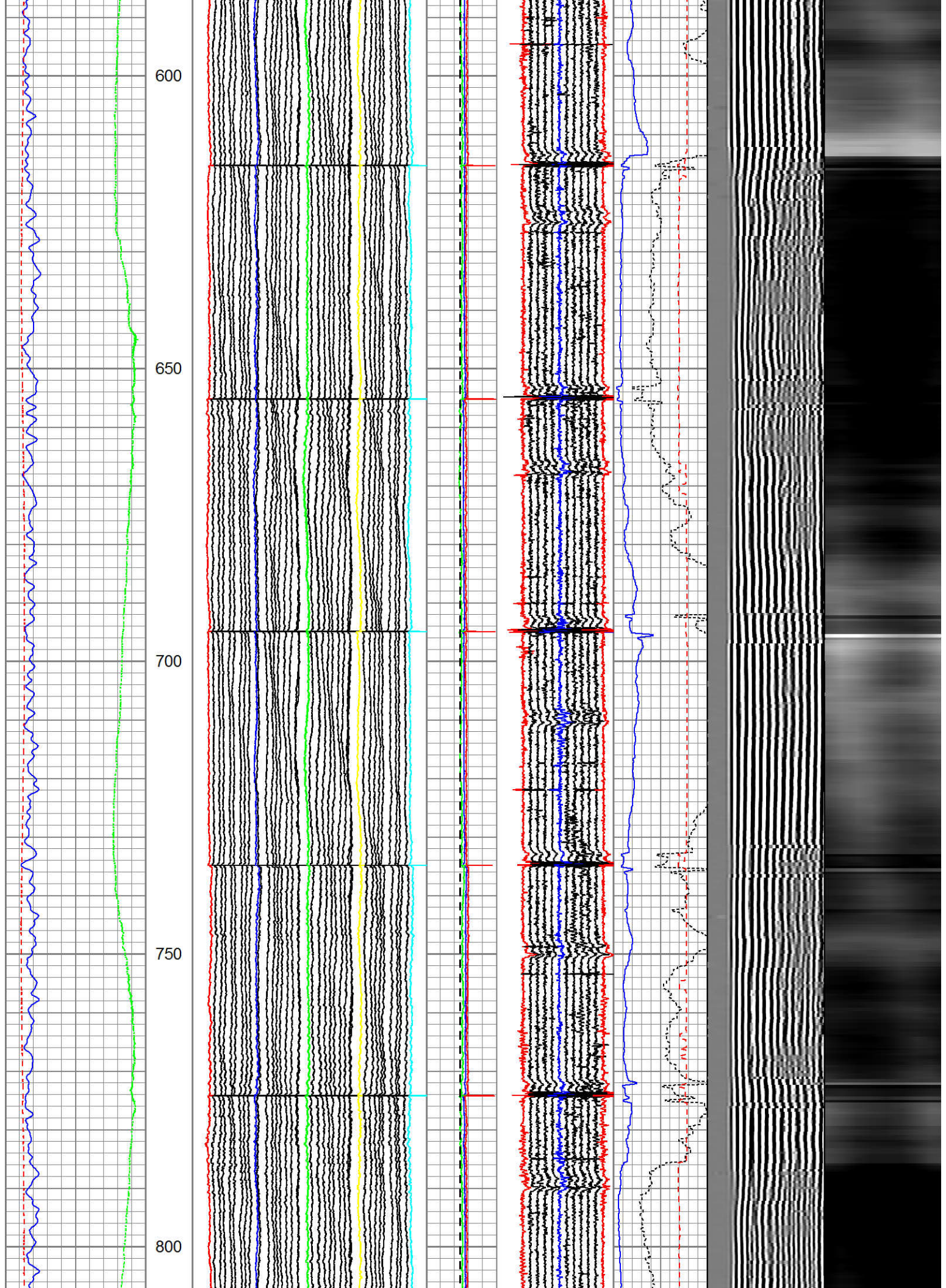
Database File: whiting church 36-2623h.db
 Dataset Pathname: main
 Presentation Format: us40rbl7
 Dataset Creation: Wed Mar 13 11:25:07 2013 by Log Sondex V7.03
 Charted by: Depth in Feet scaled 1:240

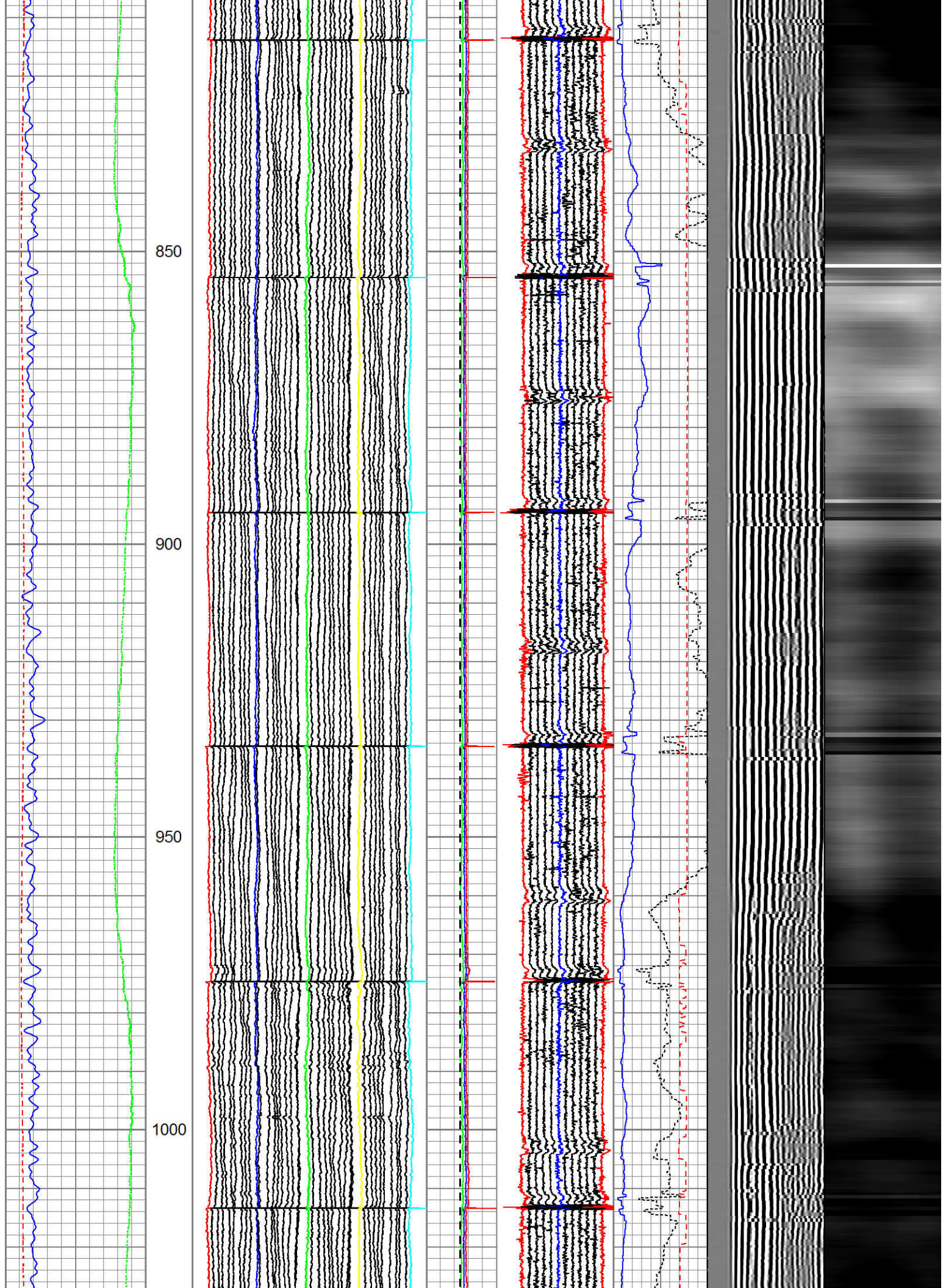
0	GR (GAPI)120	3	Caliper #1 (in)	4.8	Ave ID	MTTP01	3' Amp	5' VDL	Sector Map
	Deviation	2.64	Caliper #10 (in)	4.44	(in)	1 (rad) 9	(mV)	200 1200	
-10	(°) 90	2.24	Caliper #20 (in)	4.04	5.7 6.7	MTTP06	0 100		
	MIT Rotation	1.84	Caliper #30 (in)	3.64	Min ID	-1.5 (rad) 6.5	3' Amp X 5		
0	(°) 360	1.44	Caliper #40 (in)	3.24	(in)	MTTP12	3' TT		
					5.7 6.7	-4.5 (rad) 3.5	(usec)		
					Max ID		650 150		
					(in)				
					5.7 6.7				
					Nom ID				
					(in)				
					5.7 6.7				

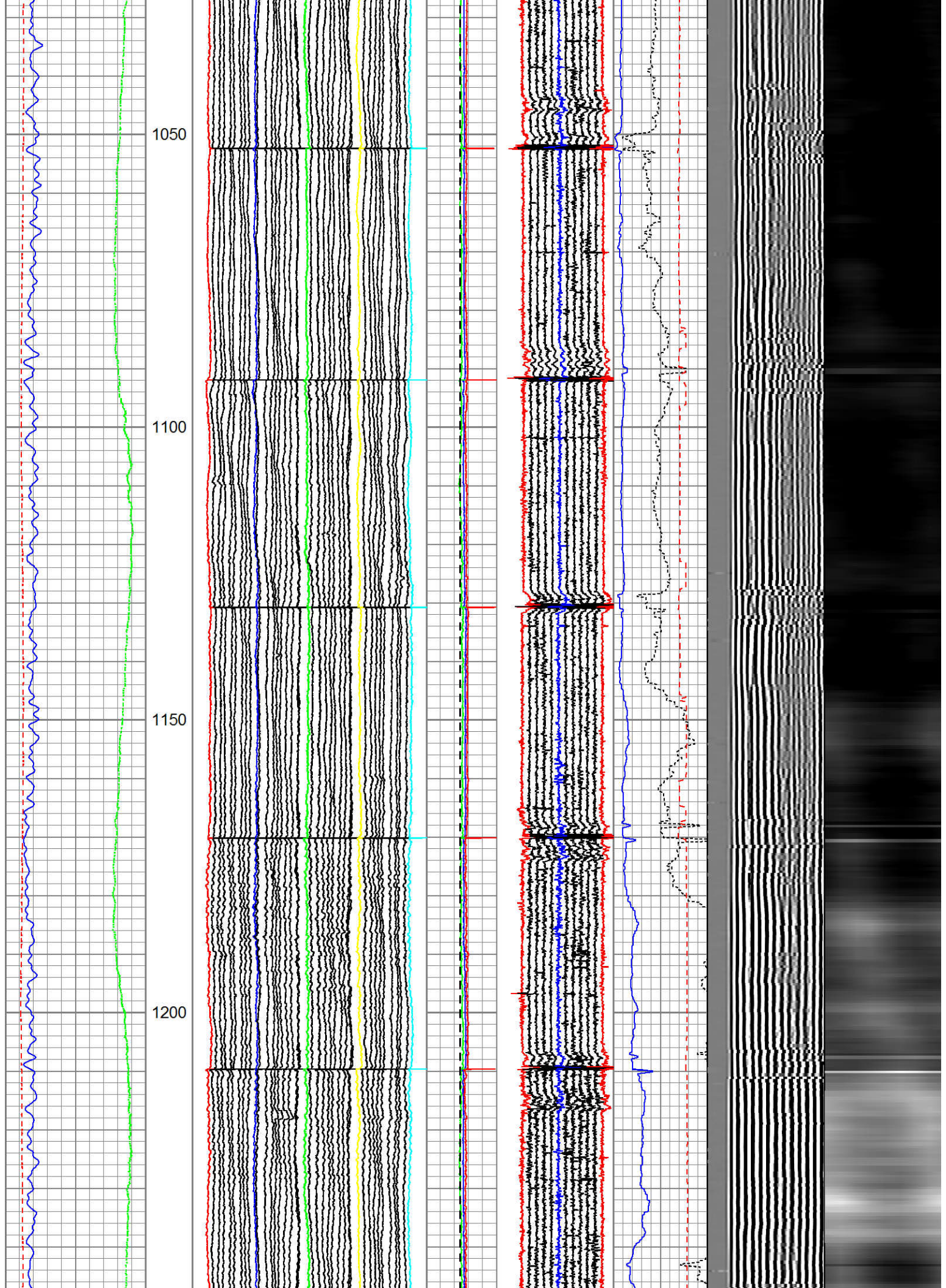


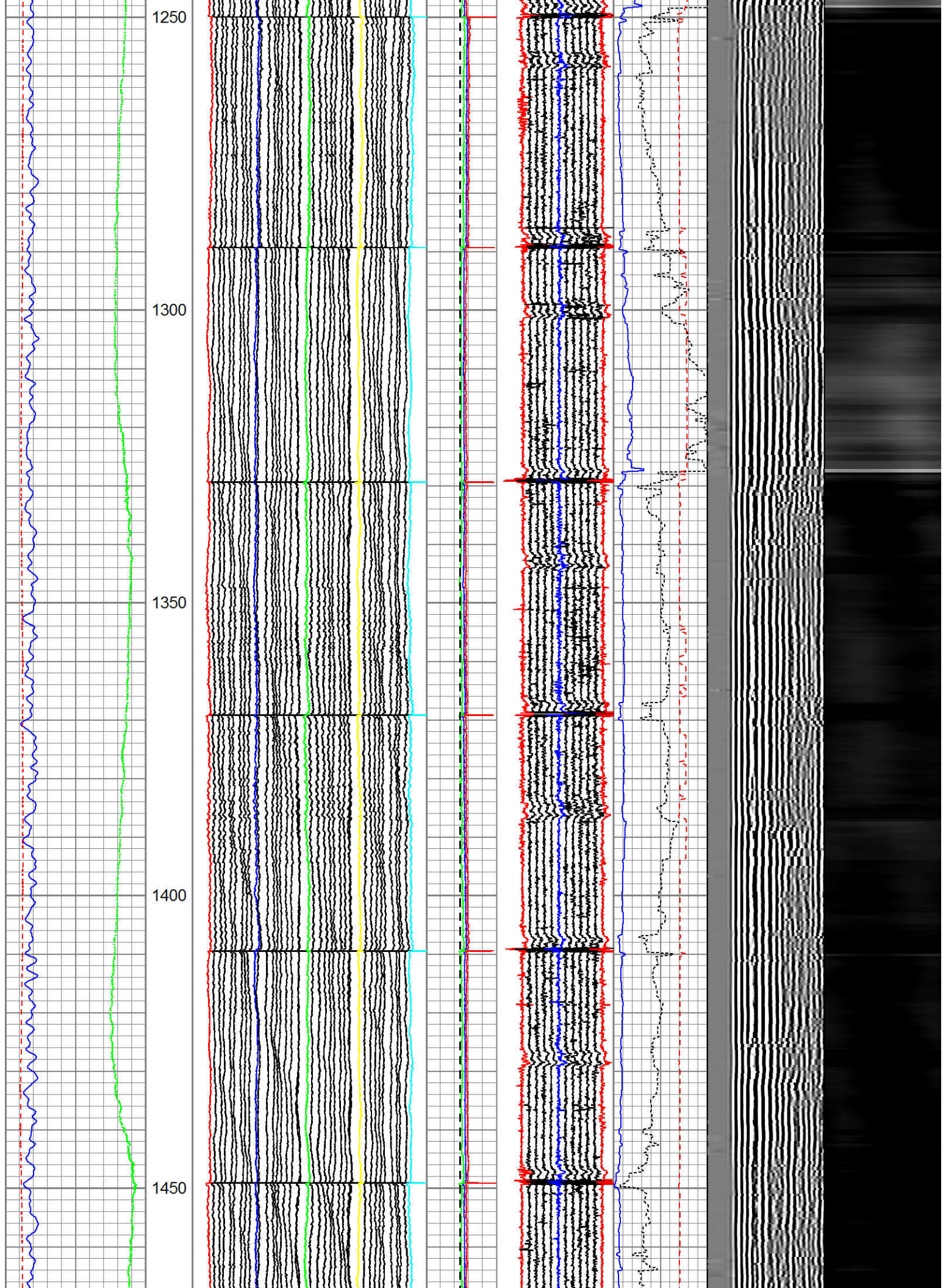


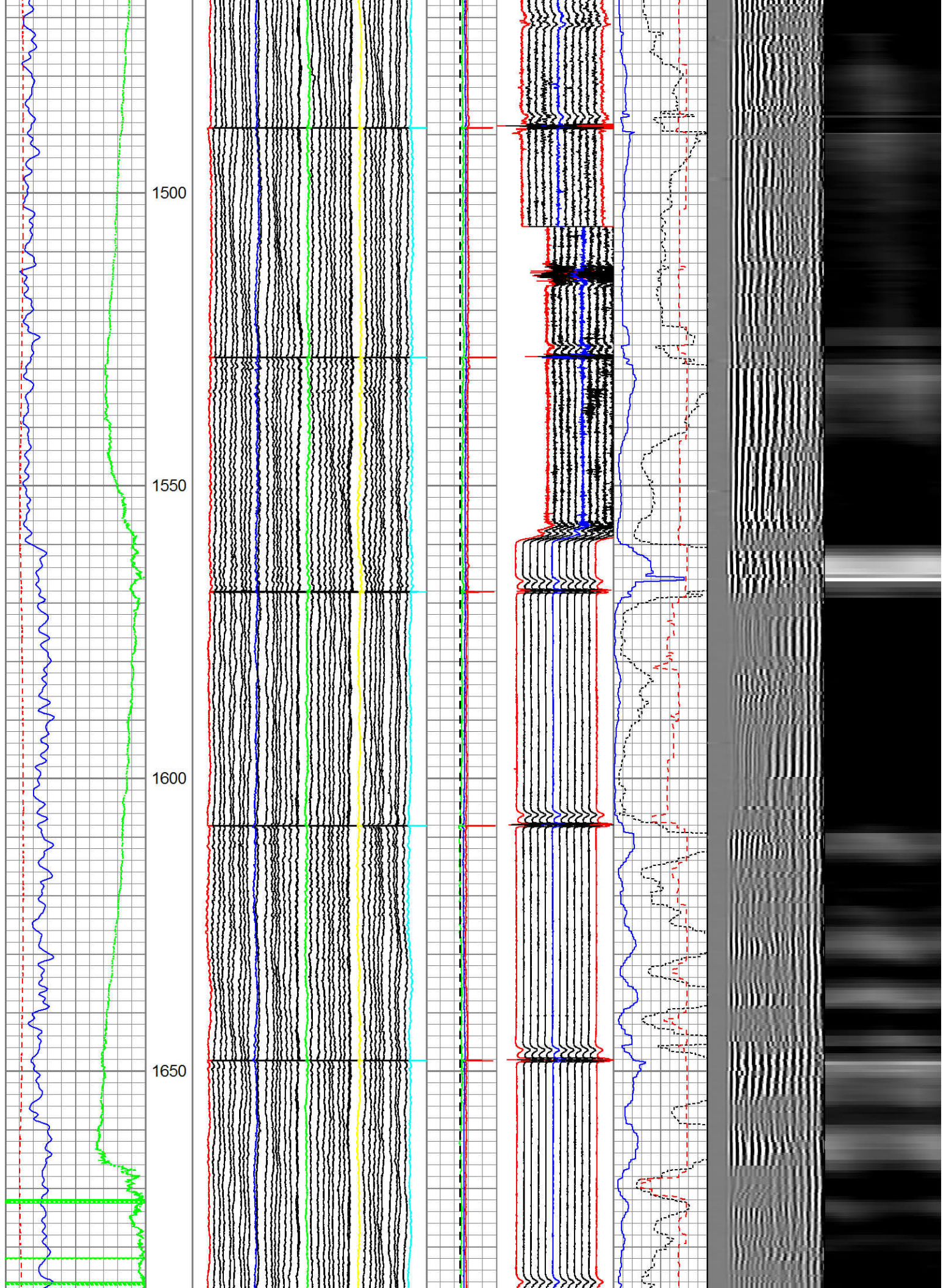


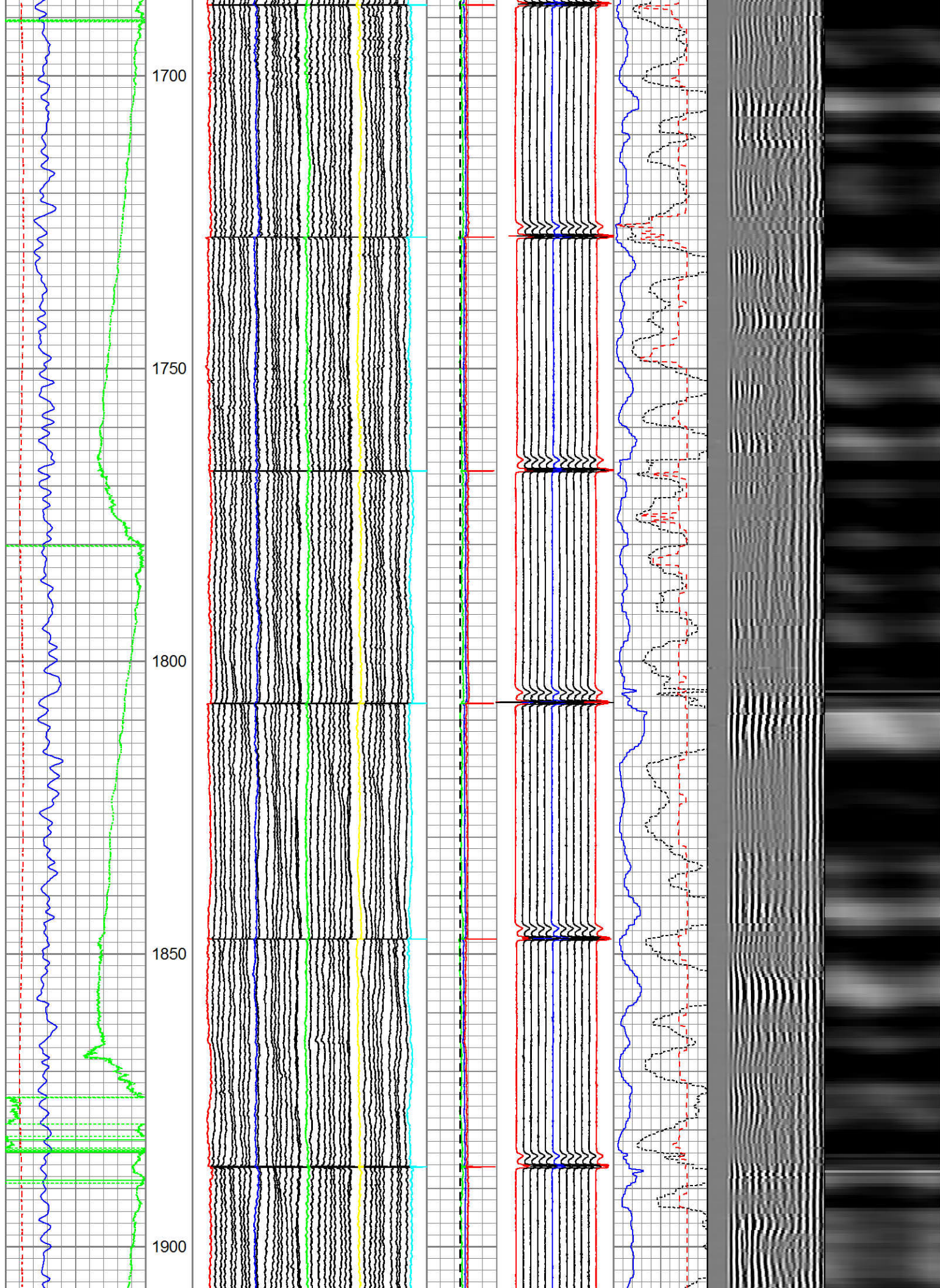


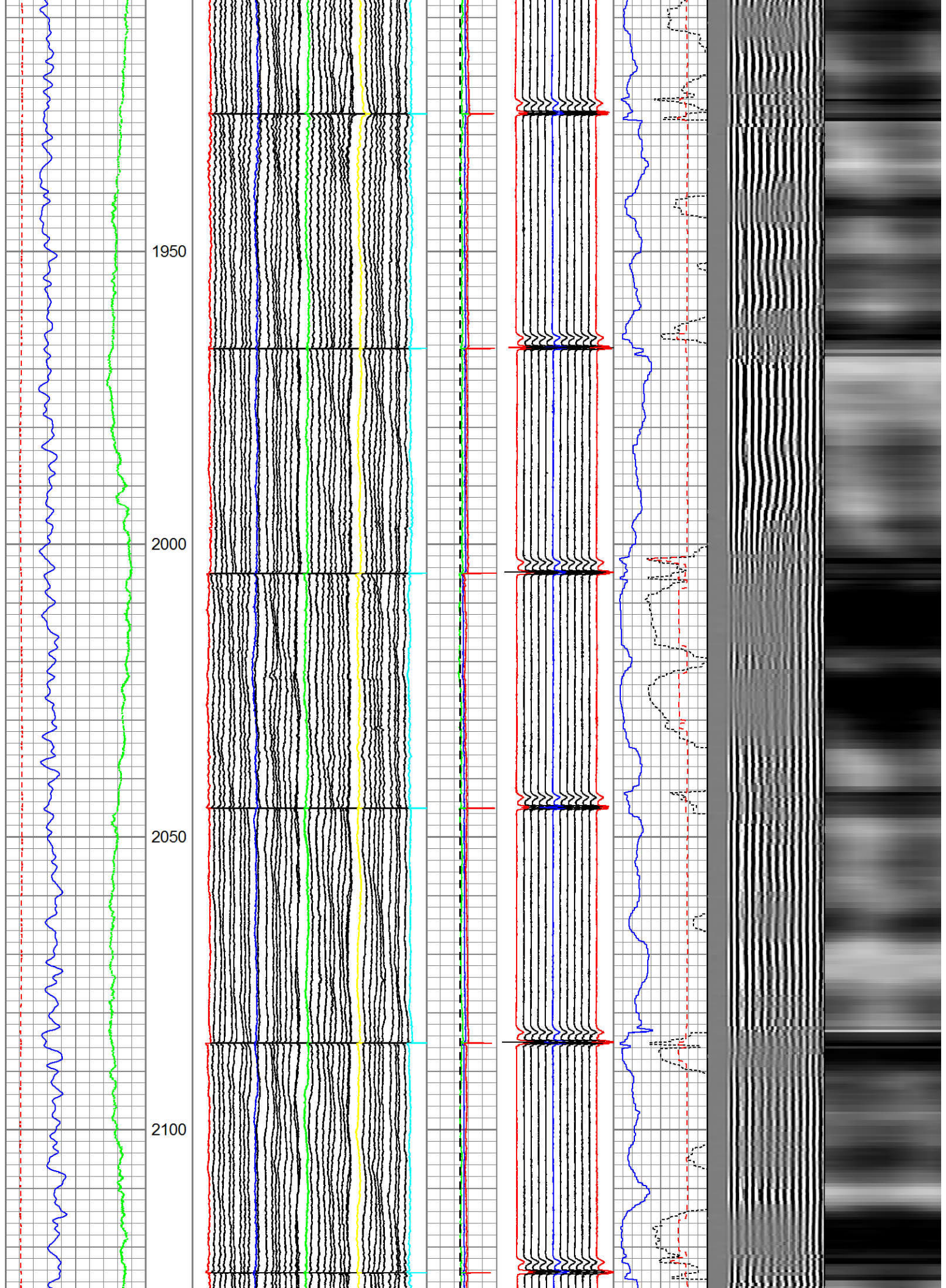


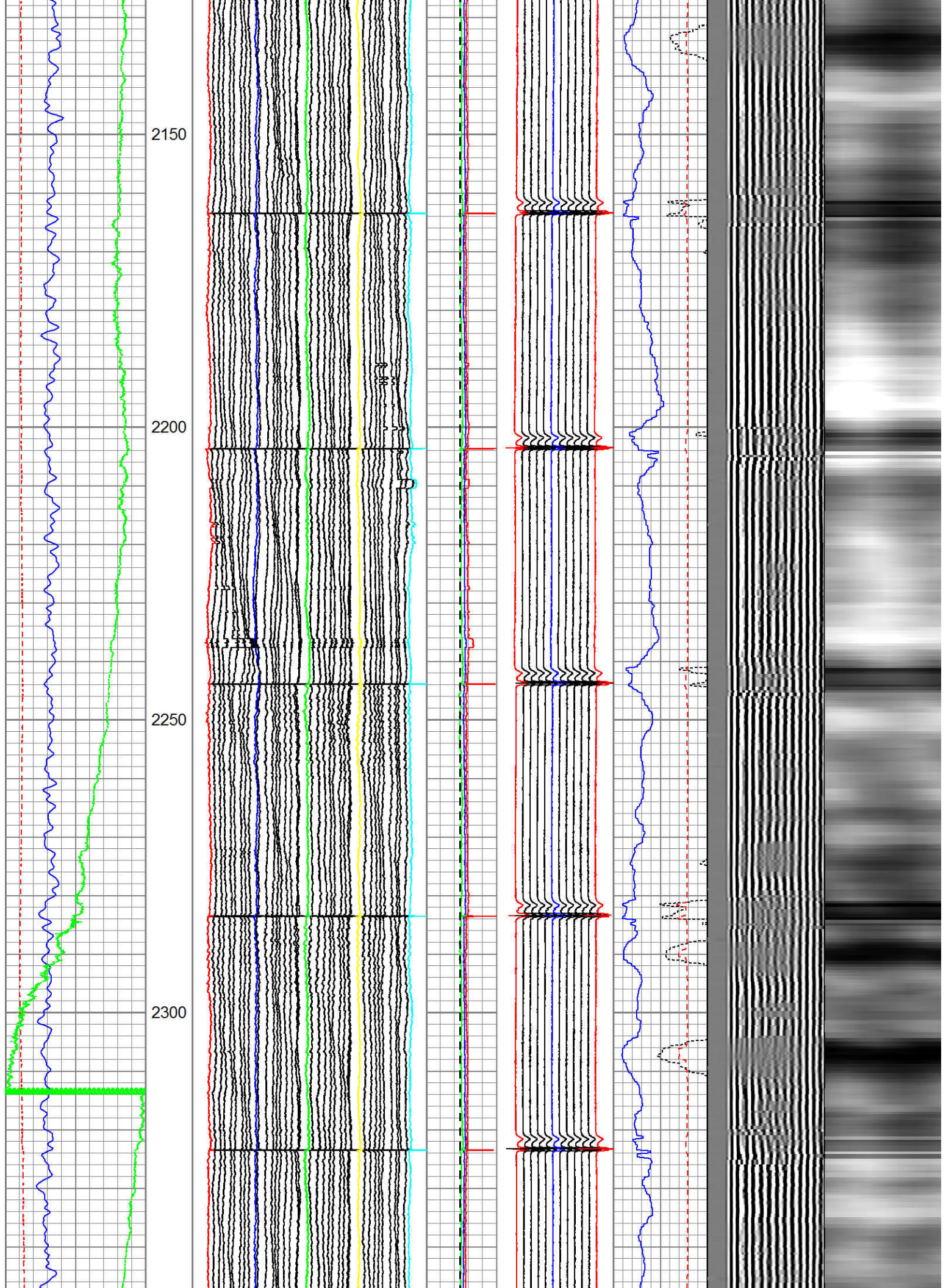


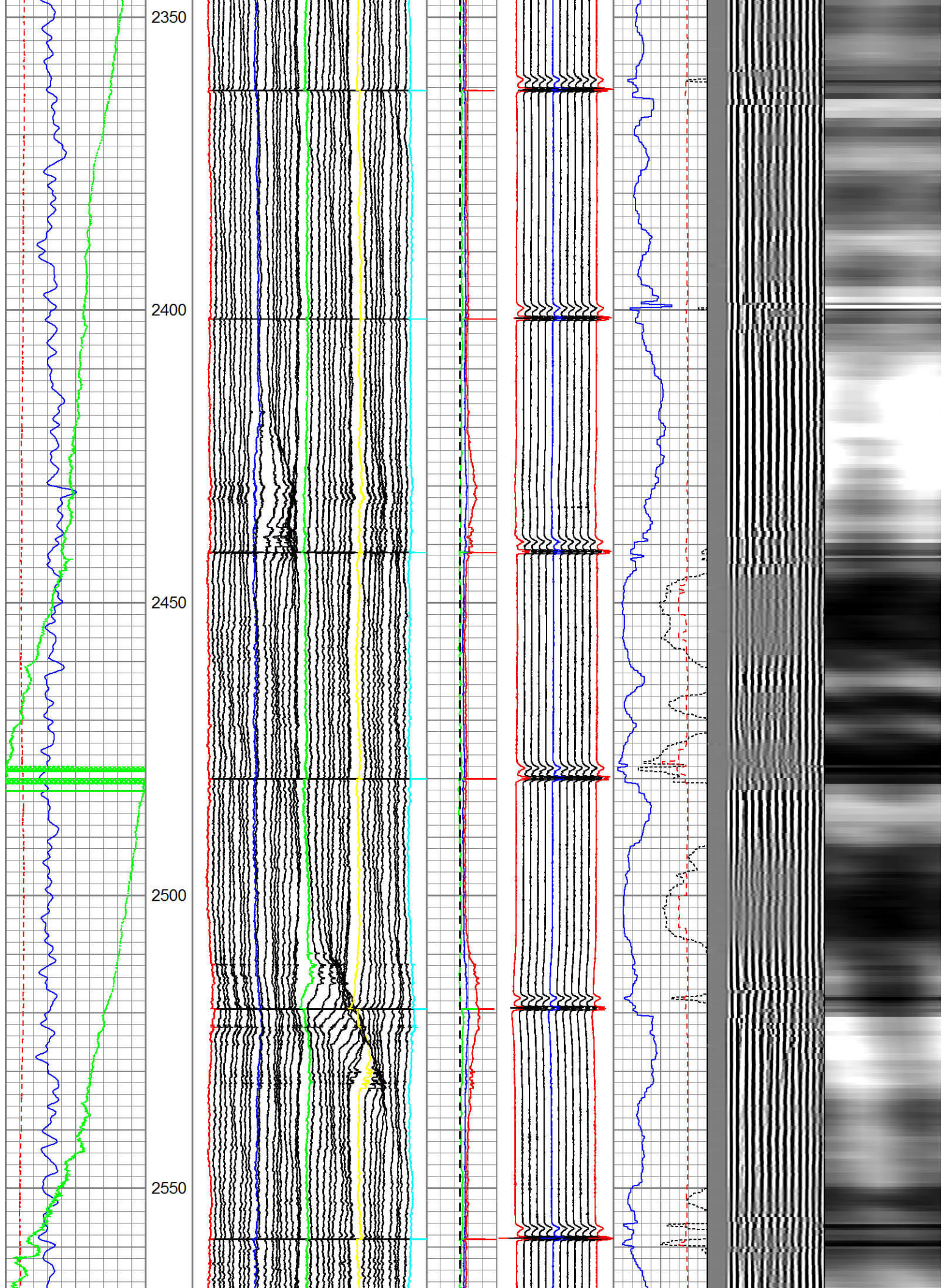


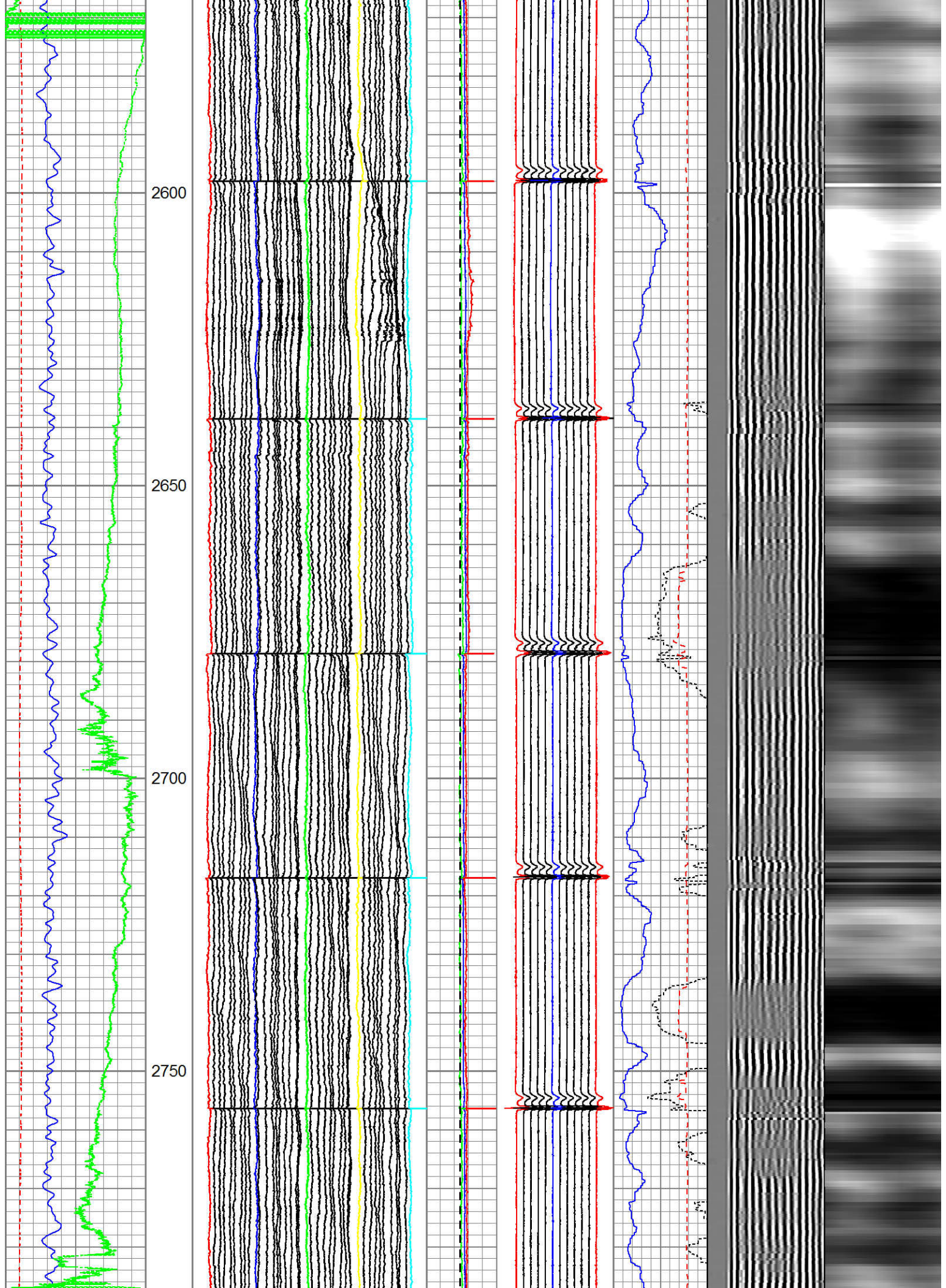


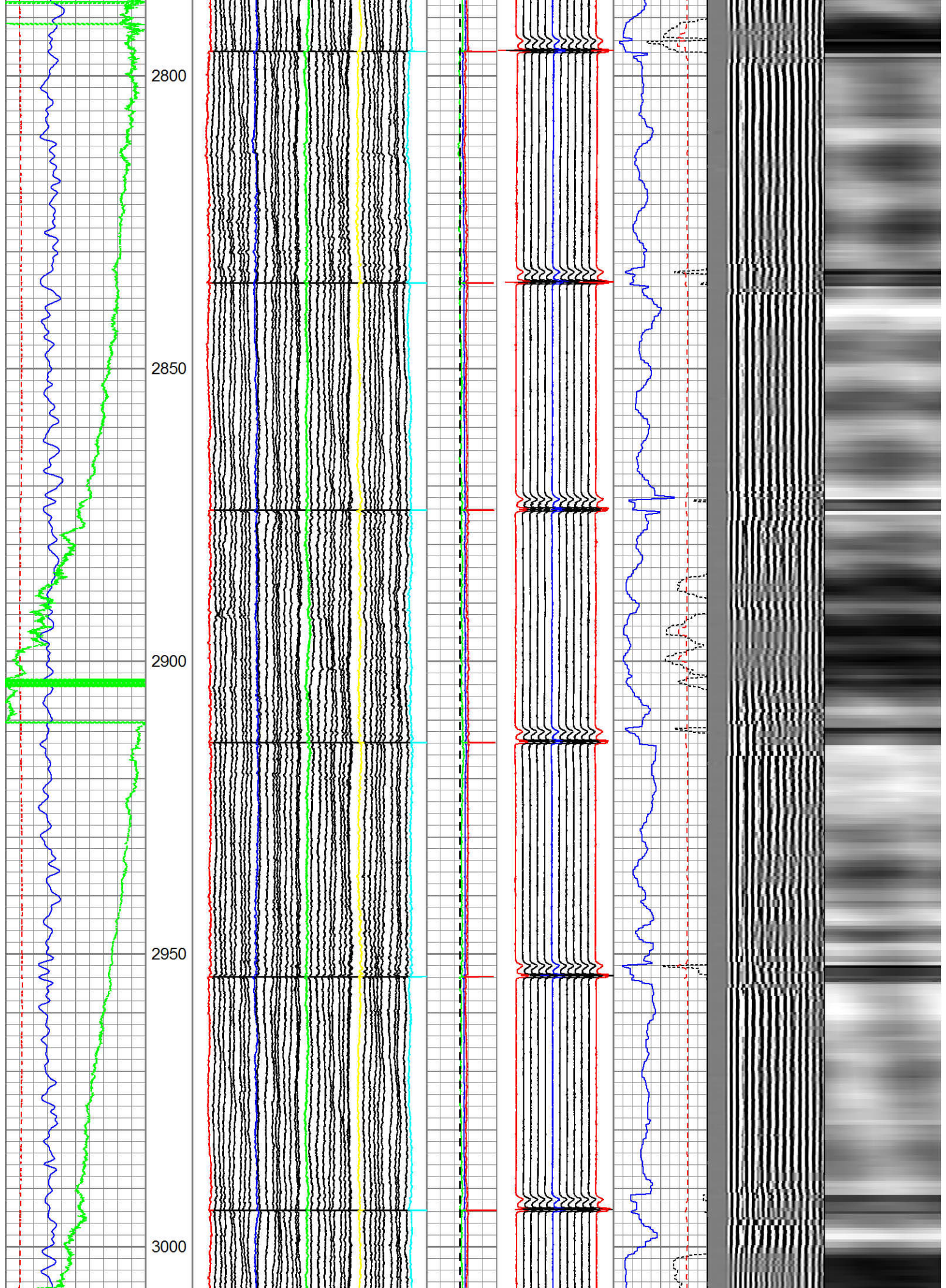


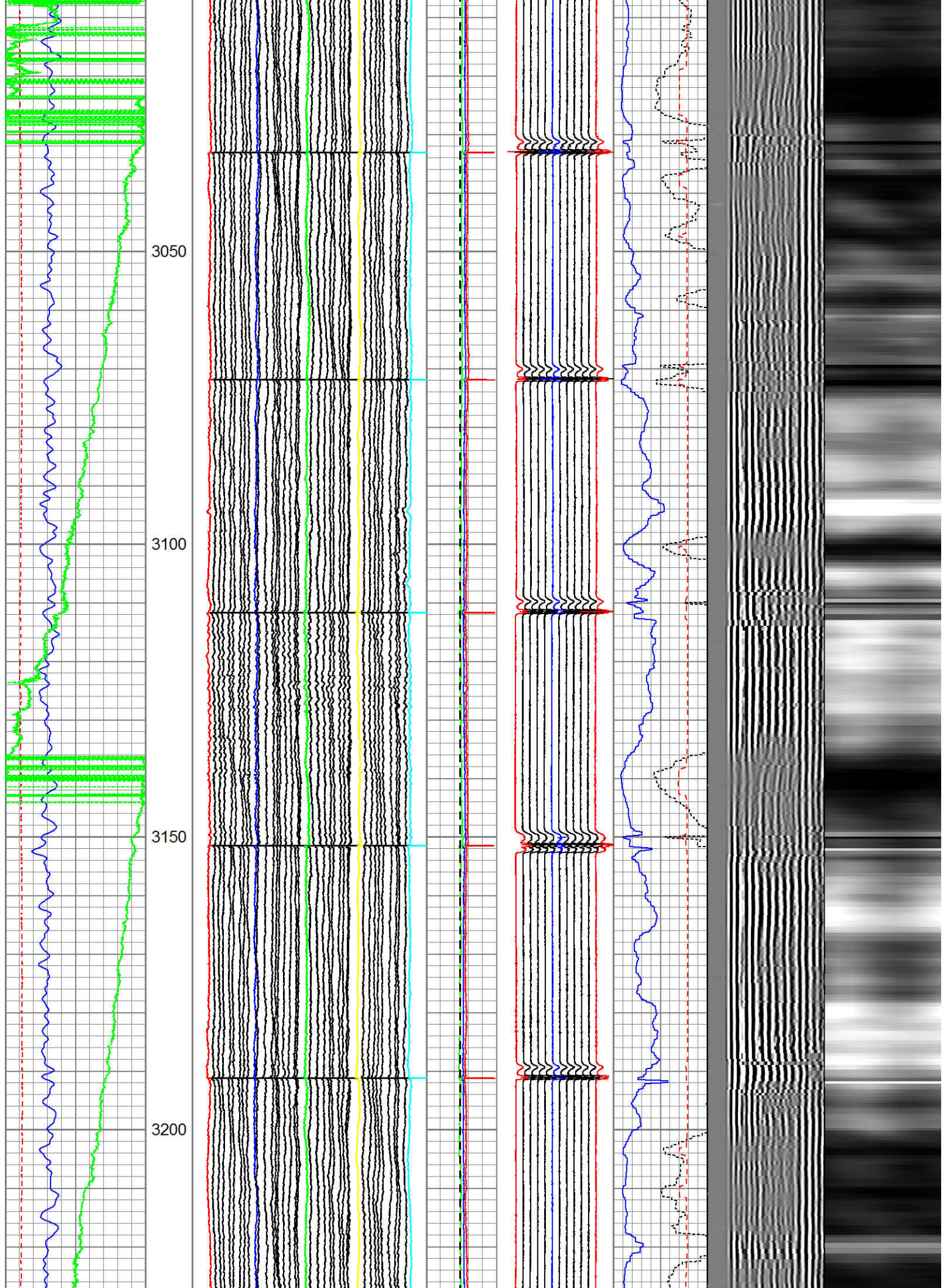


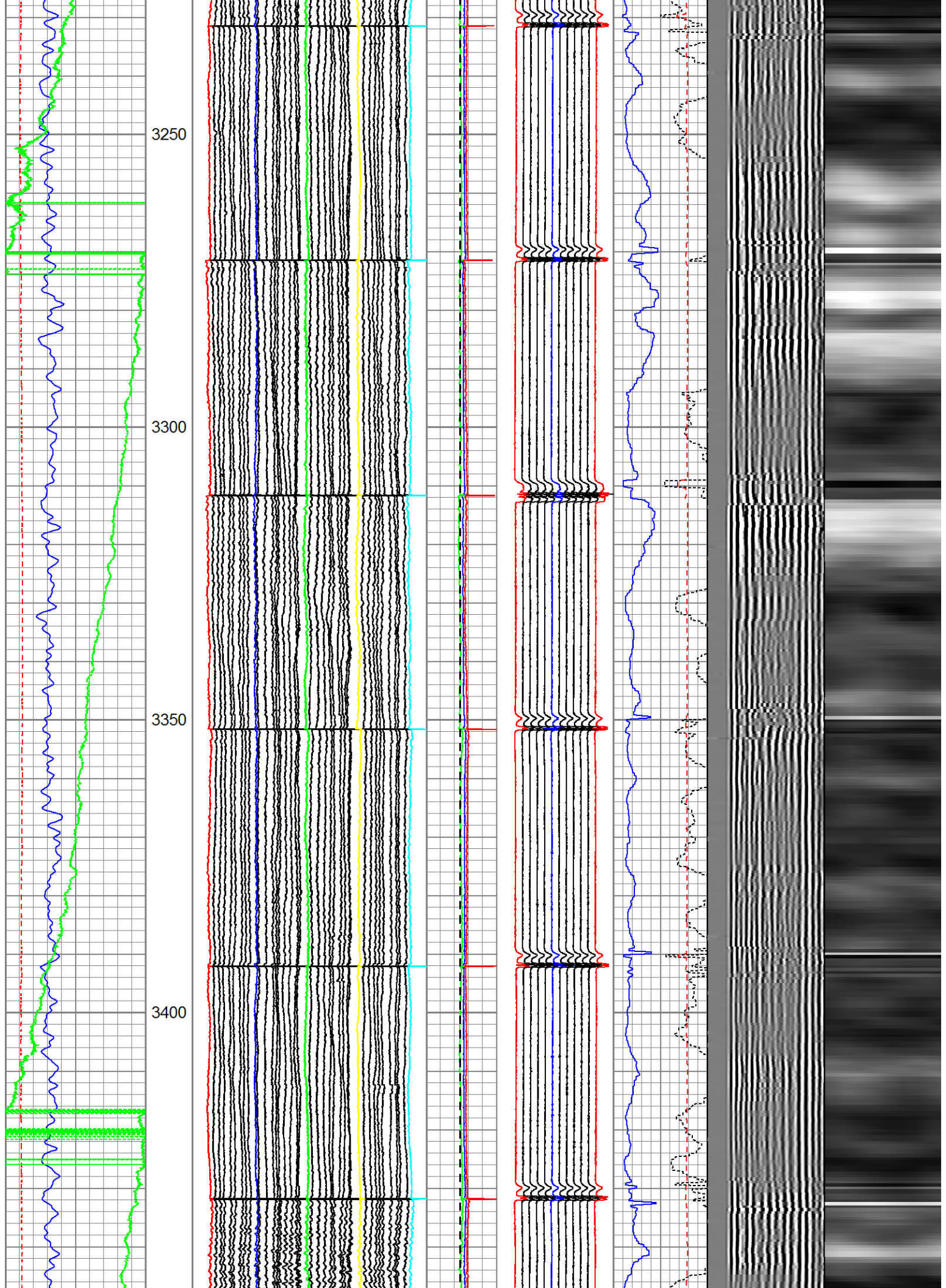


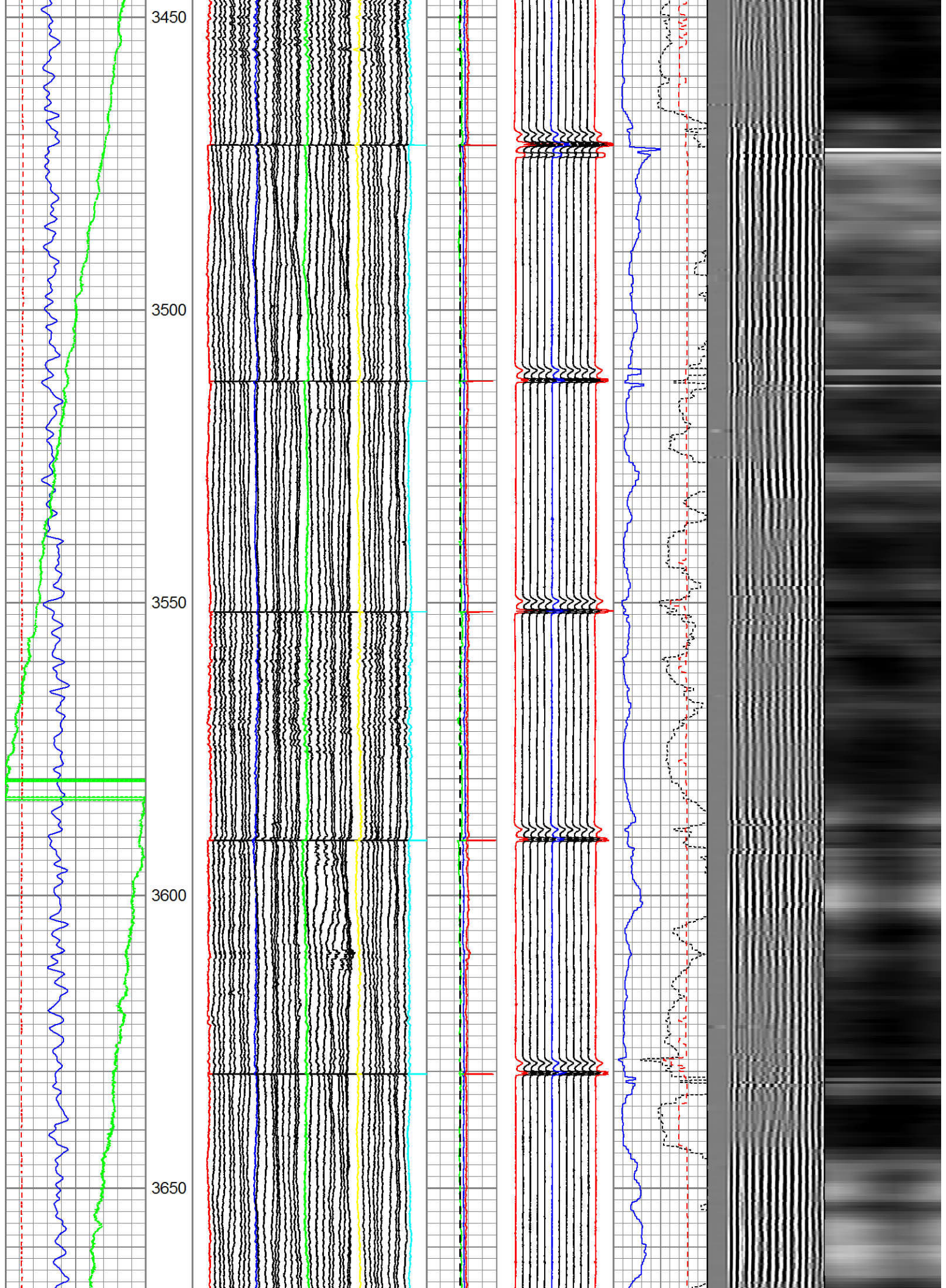


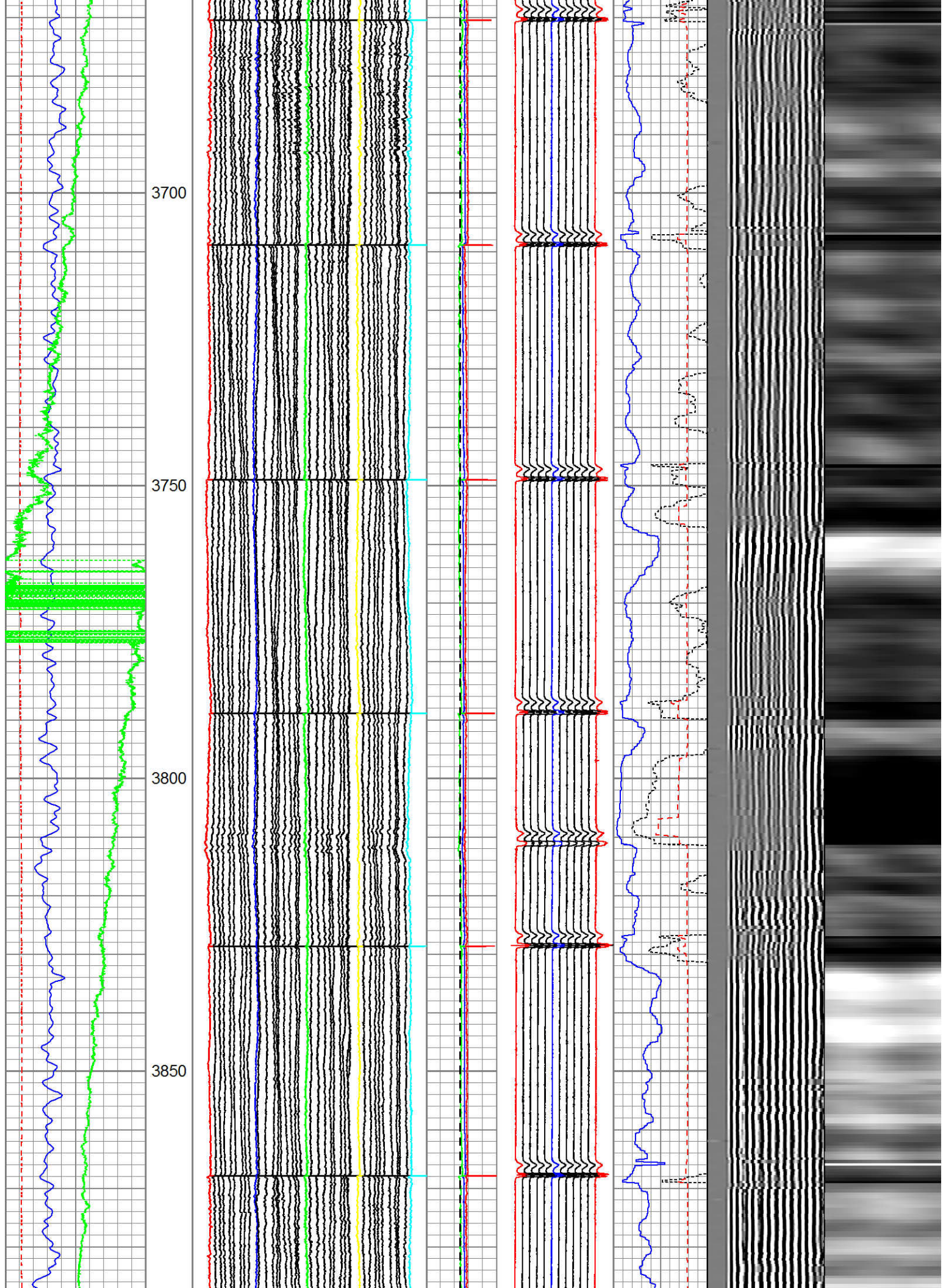


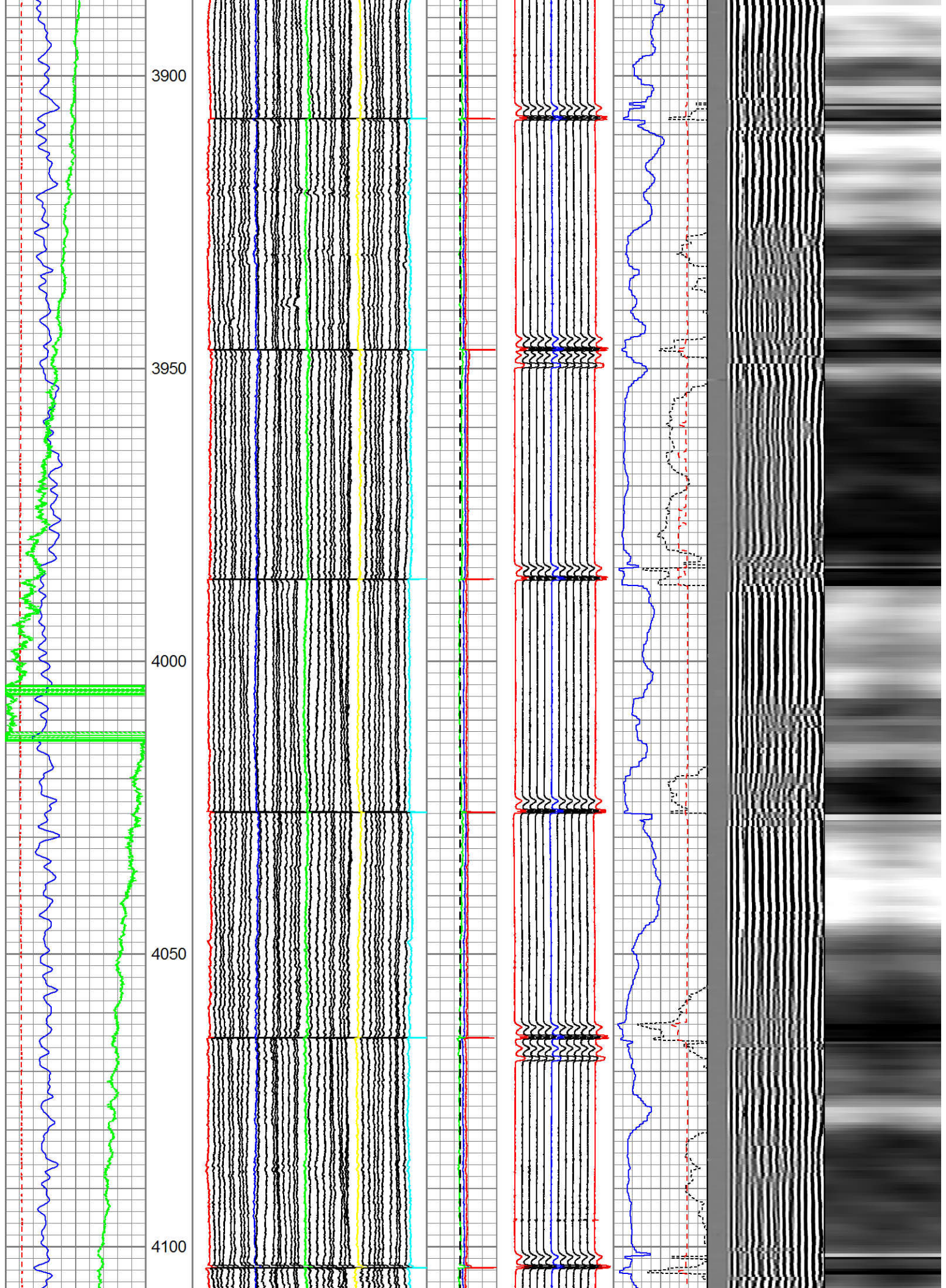


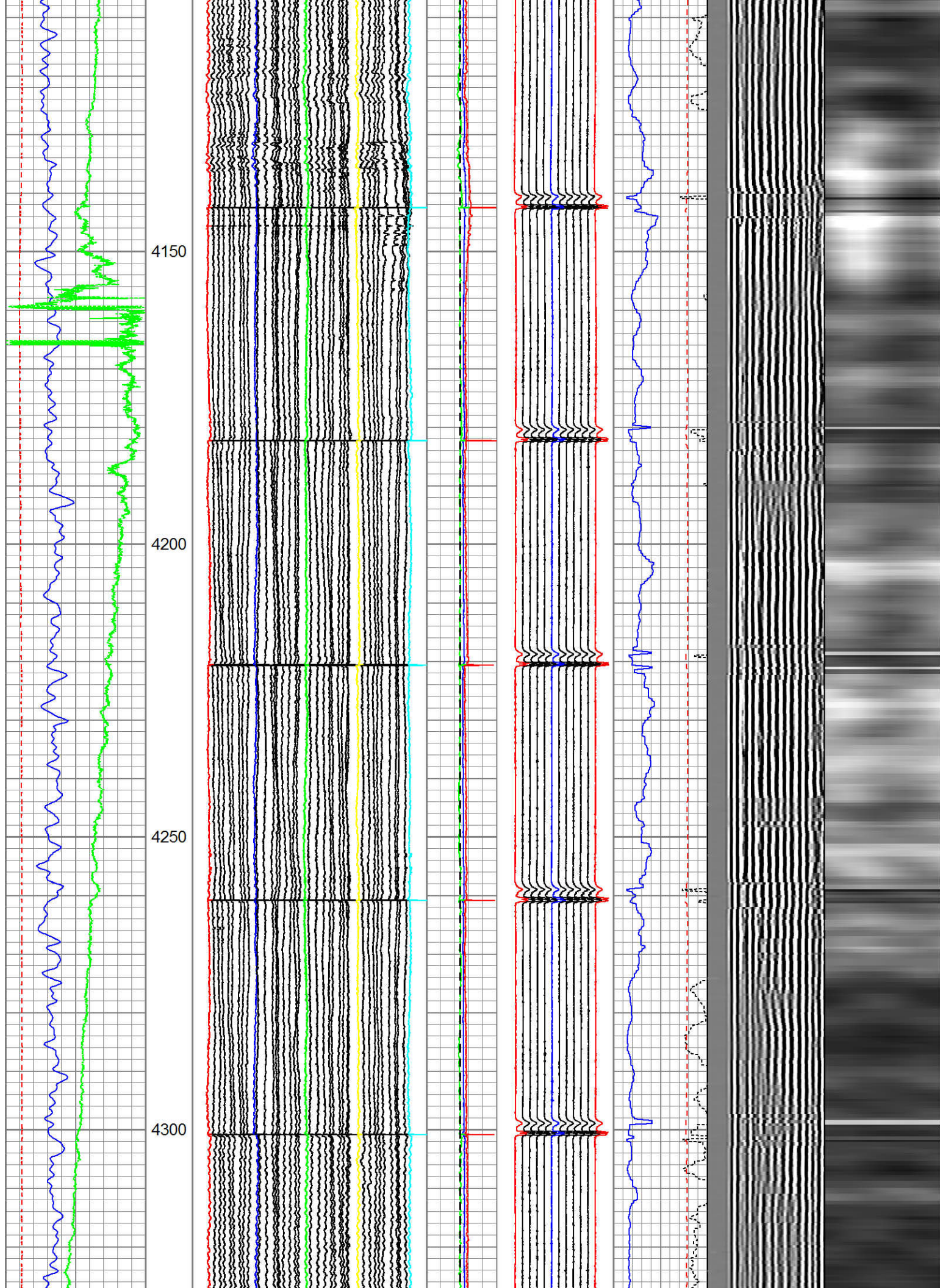


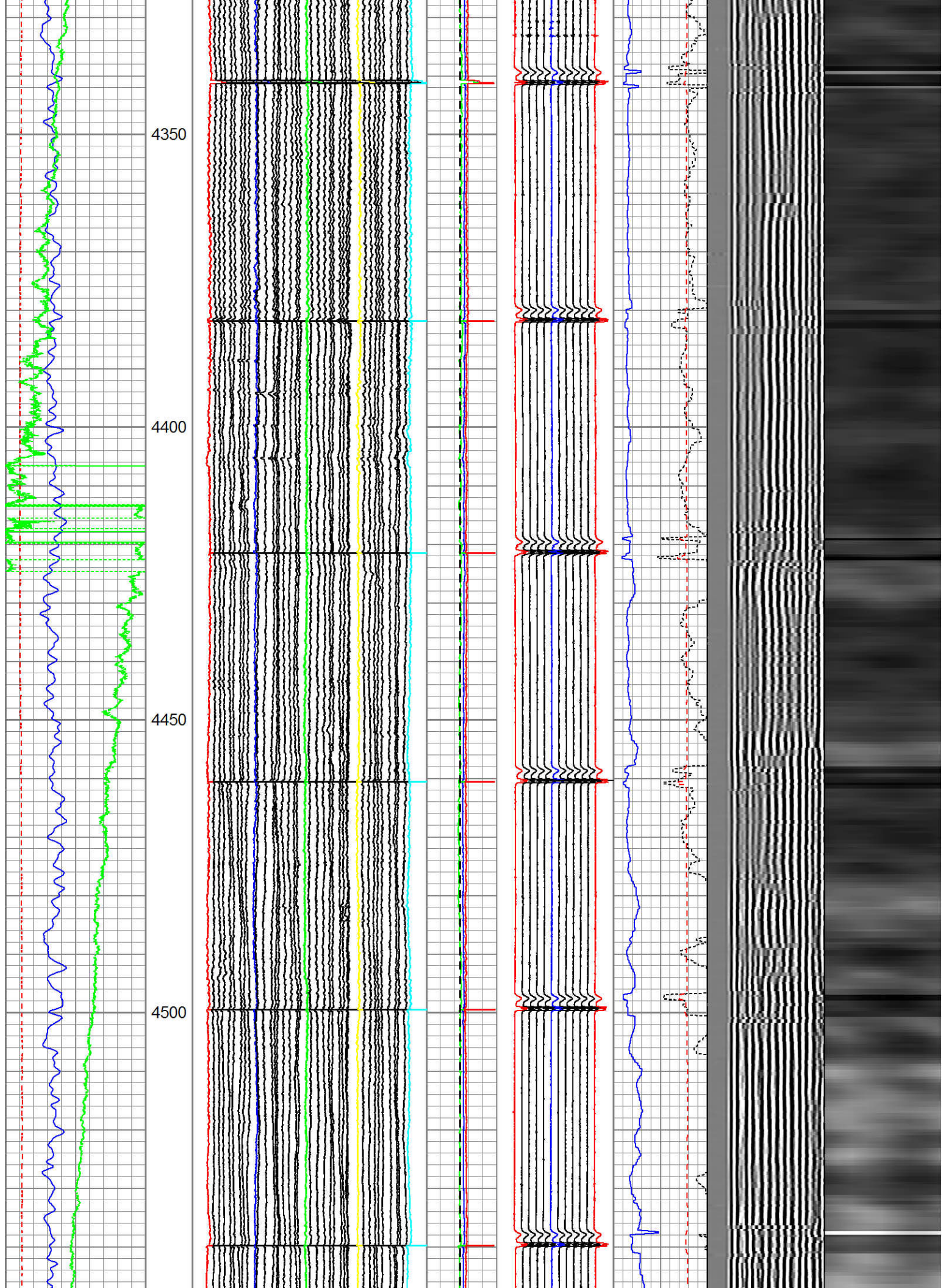


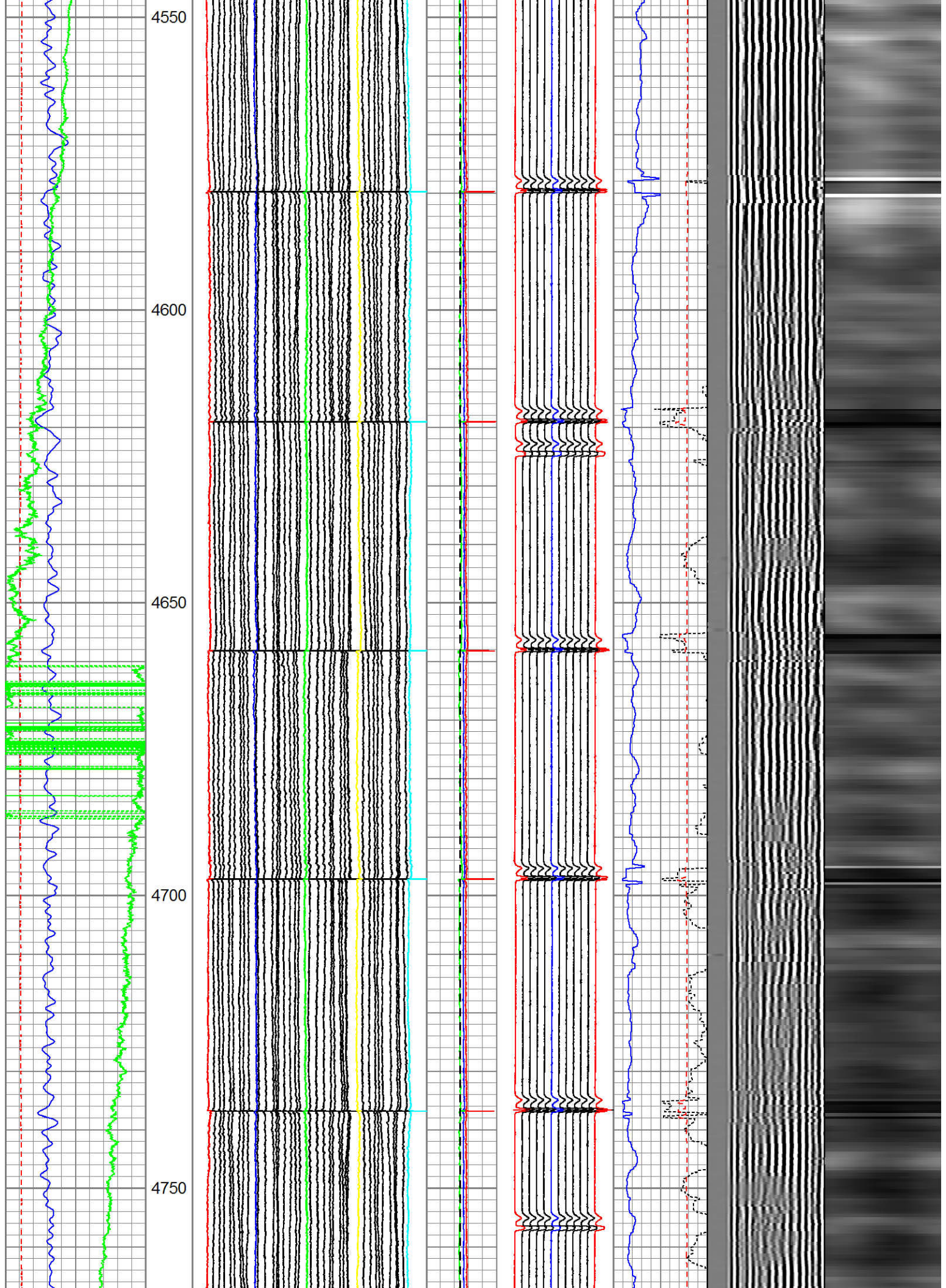


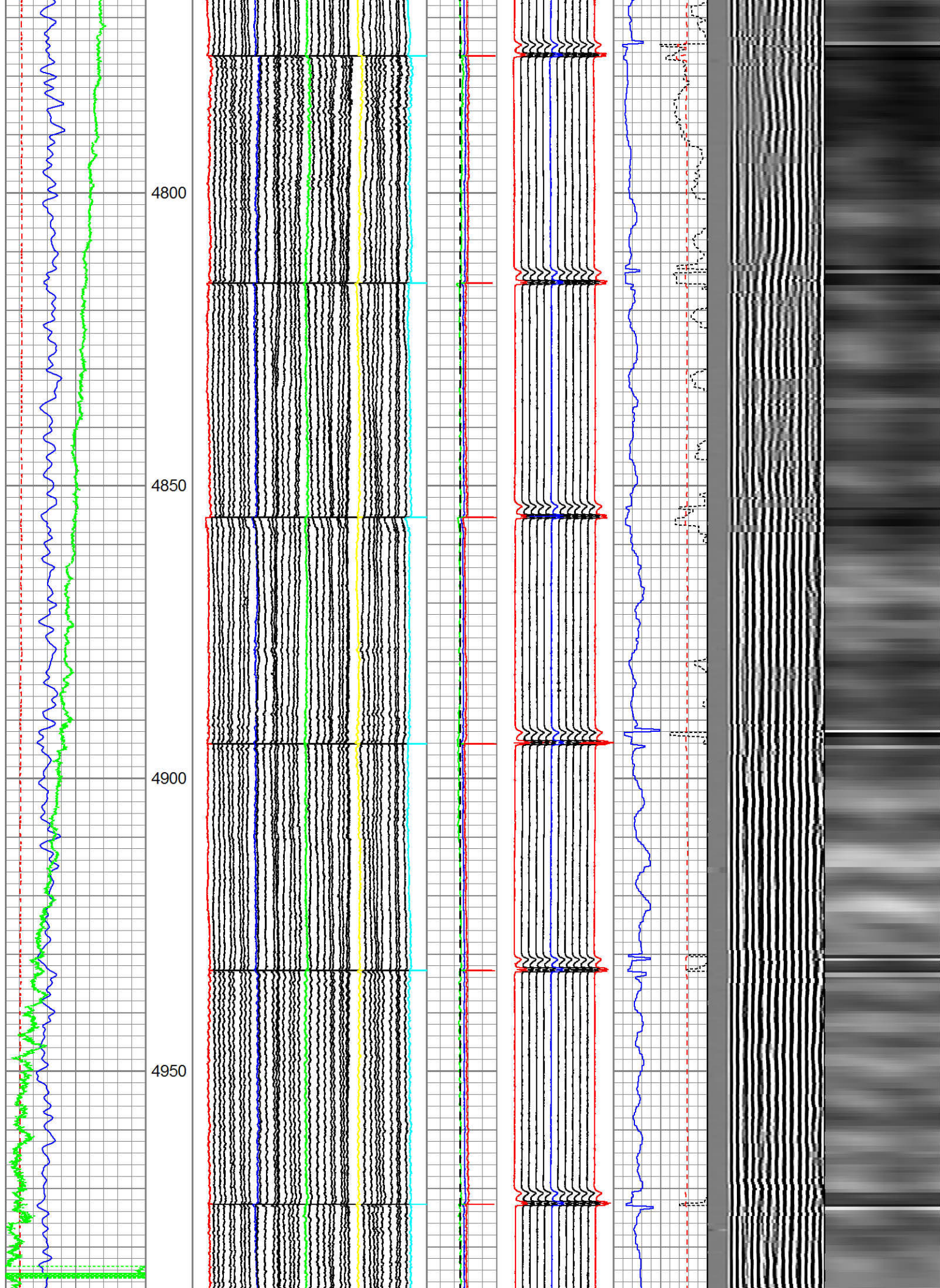


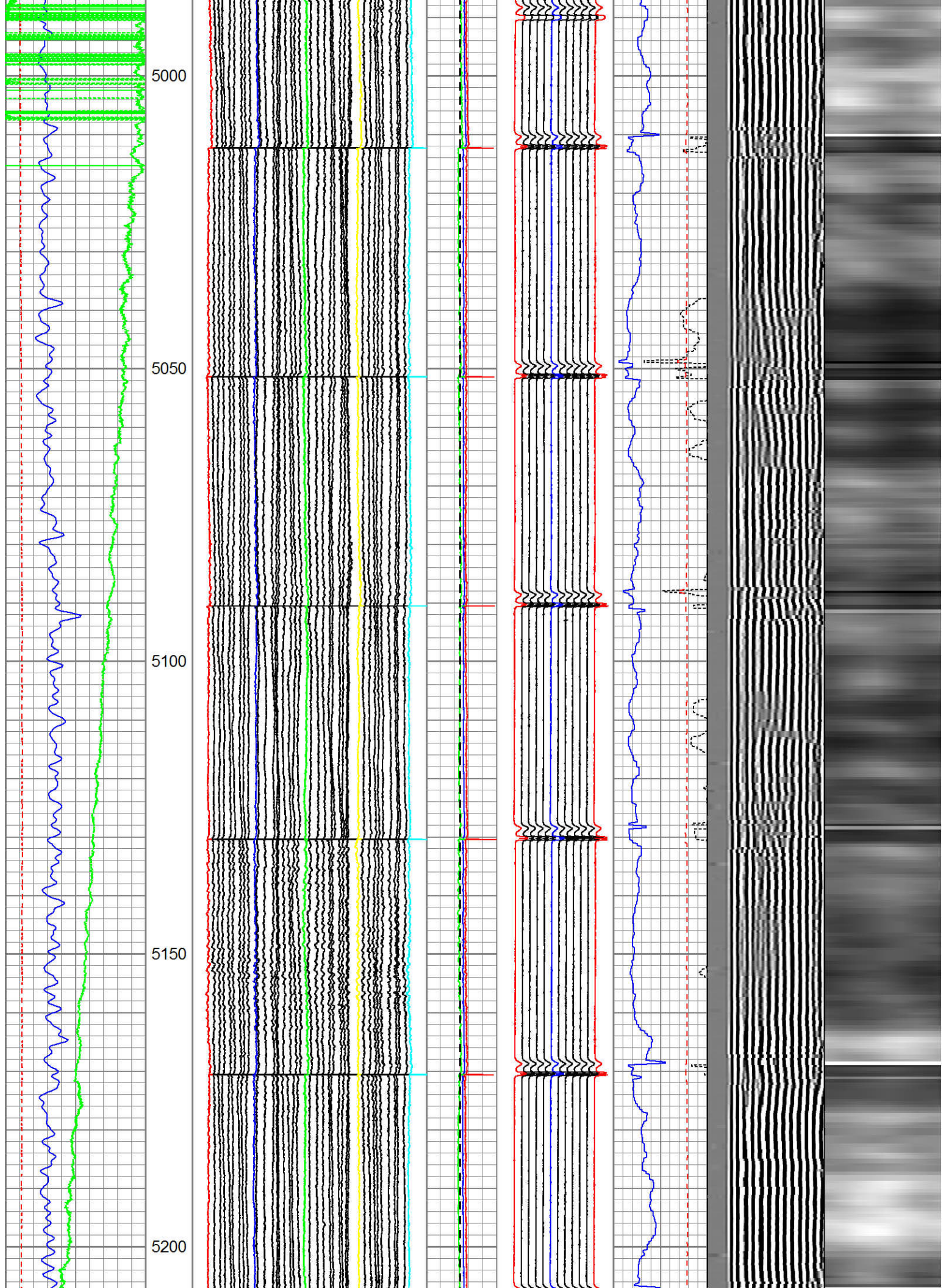


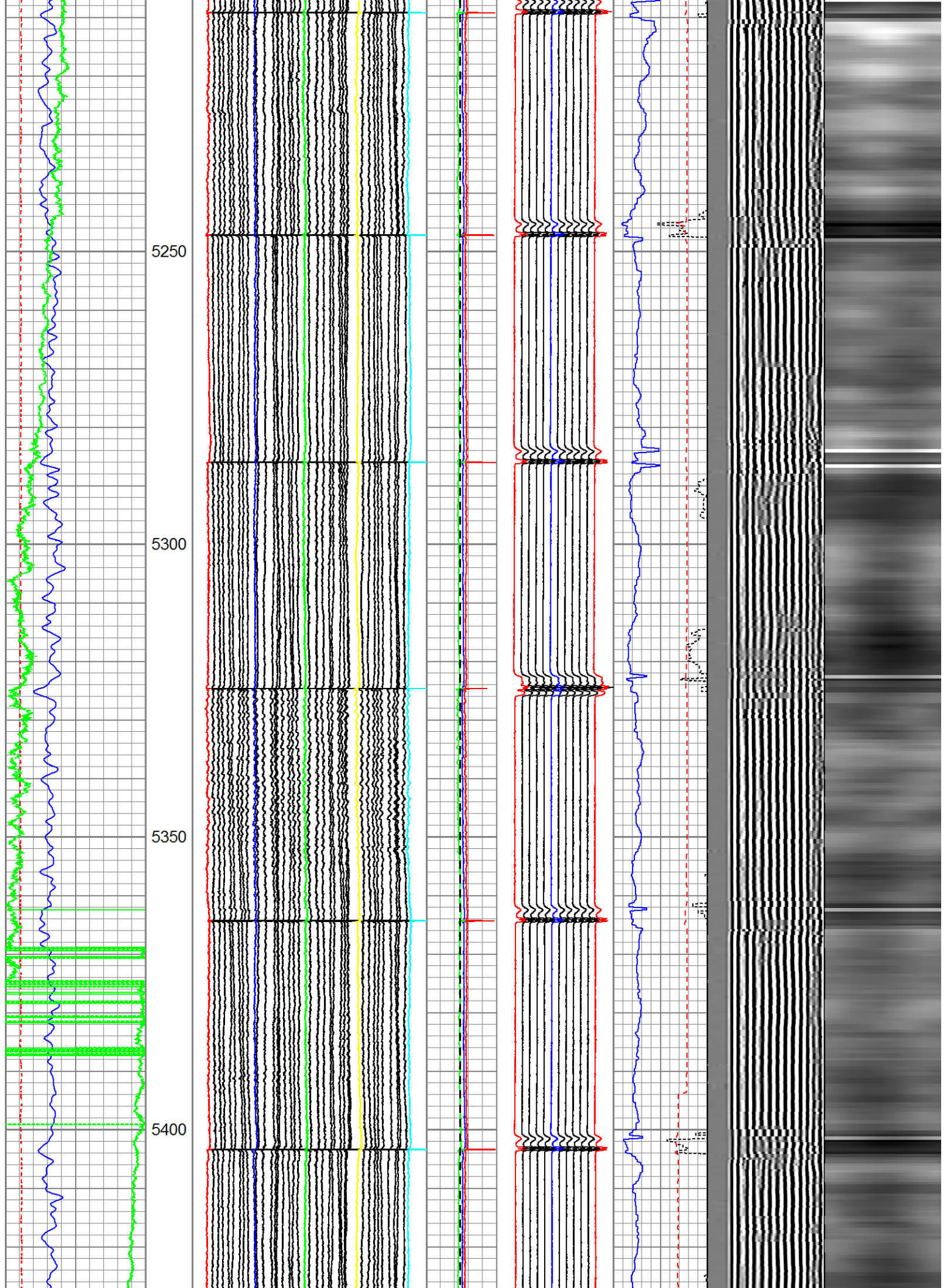


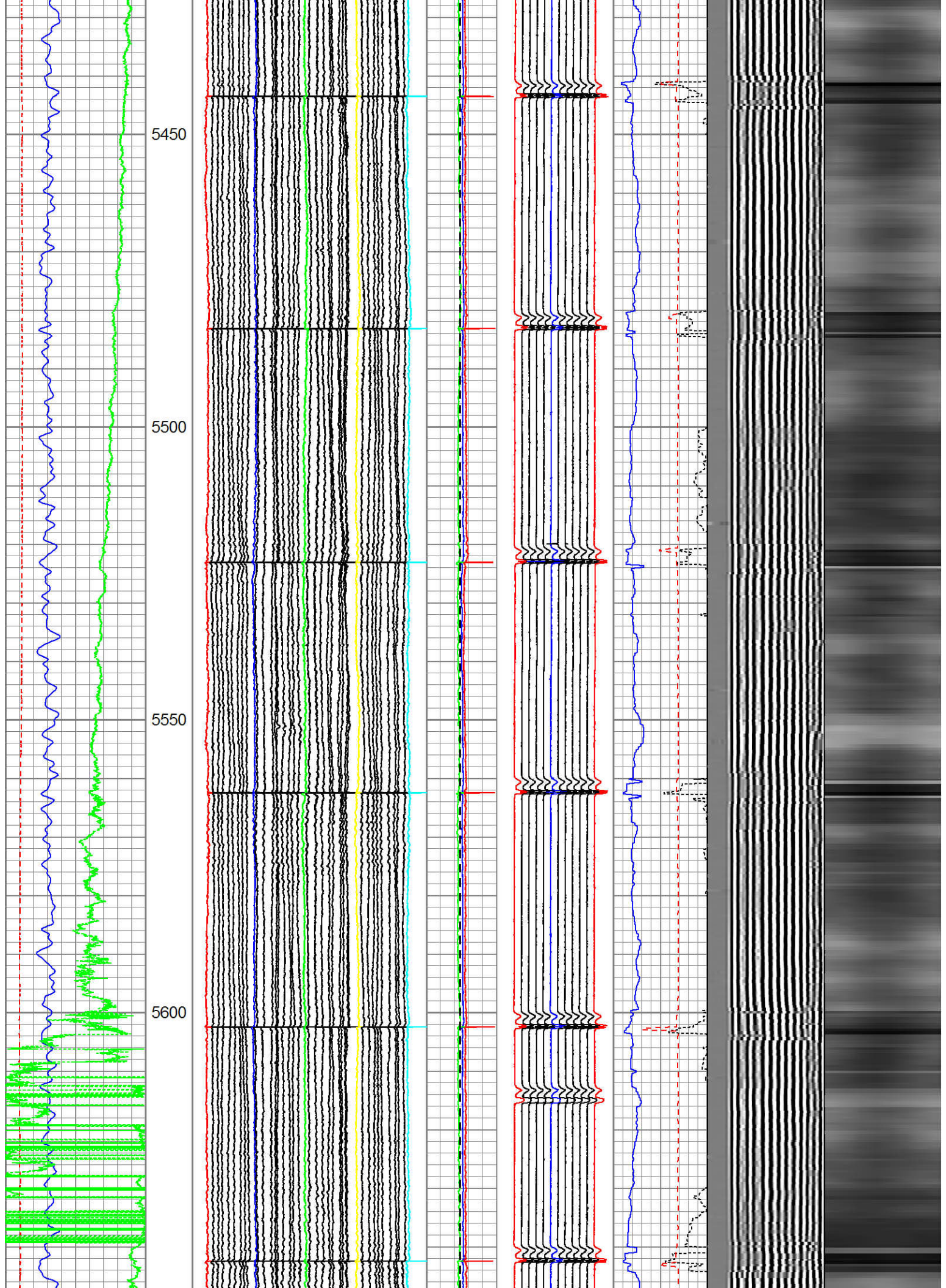


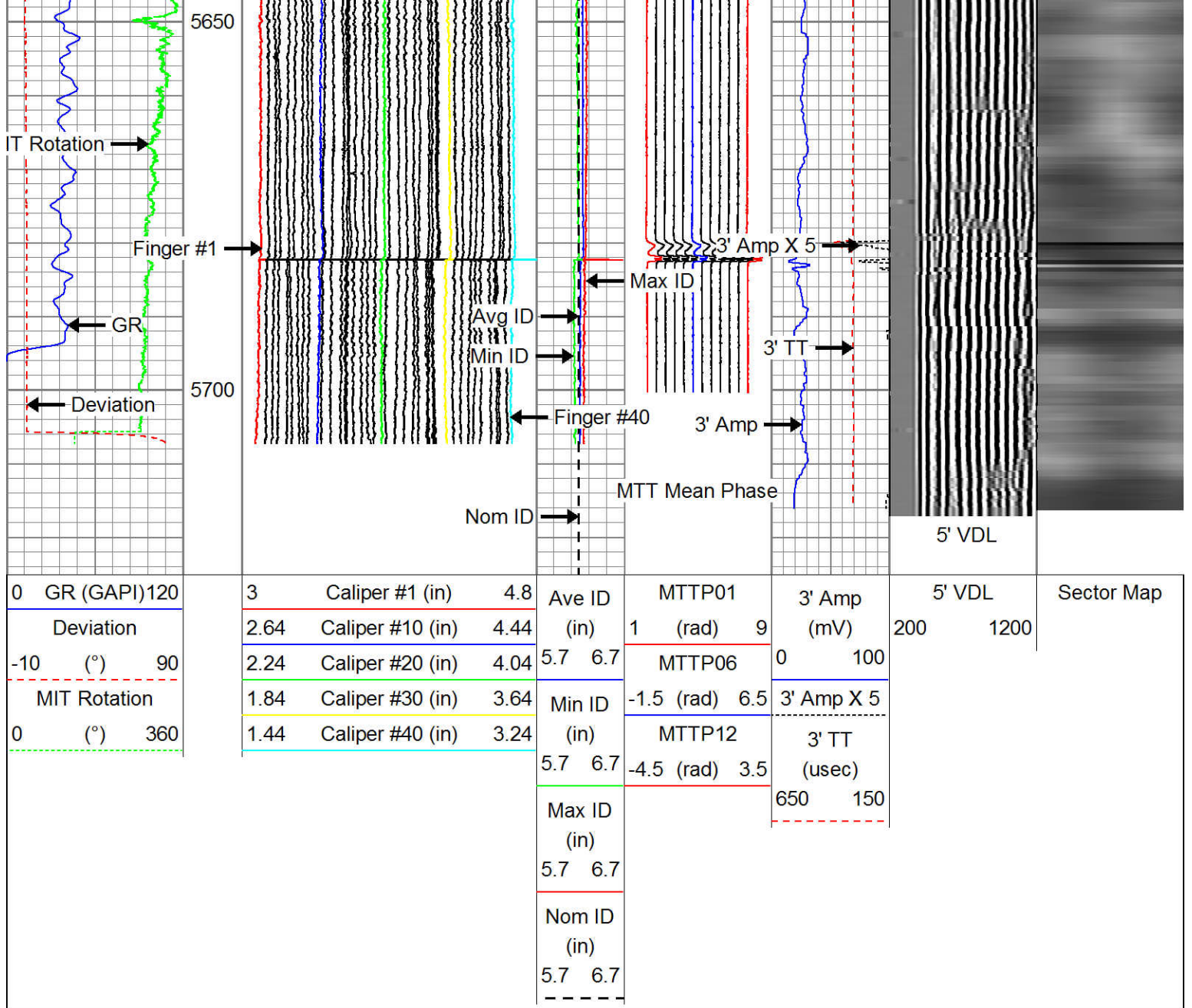












Sensor	Offset (m)	Schematic	Description	Len (m)	OD (mm)	Wt (kg)
GR	8.87		AES 1-7/16" Cablehead	0.33	36.51	0.45
			AGS-001 (218874) Adaptor GO to Sondex	0.06	42.86	0.45
			XTU-002 (211461) Crossover Ultrawire Toolbus to Ultralink	0.48	42.86	2.95
			PGR-020 (050836) Production Gamma Ray	0.59	42.86	4.31
			PRC-001 (97682) 1-11/16" 3-Arm Production Roller Centraliser	0.59	42.86	3.18
MTT	7.01		MTT-002 (1009) Magnetic Thickness Tool	2.04	42.86	13.61

		</							

Calibration Report						
Database File:	whiting church 36-2623h.db					
Dataset Pathname:	main					
Dataset Creation:	Wed Mar 13 11:25:07 2013 by Log Sondex V7.03					
Segmented Cement Bond Log Calibration Report						
Serial Number:		1066in7in				
Tool Model:		004				
Calibration Casing Diameter:		7.000	in			
Calibration Depth:		771.307	ft			
Master Calibration, performed Sat Mar 09 08:48:51 2013:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	0.750	0.000	62.165	82.887	0.000
5FT	0.000	0.717	0.000	62.165	86.762	0.000

S1	0.000	0.638	0.000	100.000	156.668	0.000
S2	0.000	0.655	0.000	100.000	152.577	0.000
S3	0.000	0.618	0.000	100.000	161.859	0.000
S4	0.000	0.605	0.000	100.000	165.425	0.000
S5	0.000	0.602	0.000	100.000	166.167	0.000
S6	0.000	0.601	0.000	100.000	166.504	0.000
S7	0.000	0.614	0.000	100.000	162.744	0.000
S8	0.000	0.628	0.000	100.000	159.235	0.000

Multi-finger Imaging Tool Calibration Report

Serial Number:	211111
Number of Fingers:	40
Tool Model:	027

Inclinometer Calibration Report			
Performed:		Wed Nov 30 15:23:46 2005	
Calibration Angle:		45	
		Inc X	Inc Y
Vertical:		1934	1950
Finger 1 up:		1958	2277
Finger 31 up:		1593	1959
Finger 21 up:		1908	1606
Finger 11 up:		2263	1911
Sensitivity ratio:	0.998734		
X-axis angle:	274.18		
Deviation const.:	335.932		

Finger Calibration Report							
Performed:				Wed Mar 13 08:38:02 2013			
Ring size:	4	5	6	7			
(in)							
	Sens	Sens	Sens				
Finger 01:	1081 407.0	1488 443.0	1931 448.0	2379			
Finger 02:	923 380.0	1303 429.0	1732 440.0	2172			
Finger 03:	886 381.0	1267 428.0	1695 433.0	2128			
Finger 04:	1107 401.0	1508 439.0	1947 448.0	2395			
Finger 05:	1000 387.0	1387 435.0	1822 429.0	2251			
Finger 06:	995 380.0	1375 428.0	1803 434.0	2237			
Finger 07:	1062 403.0	1465 444.0	1909 436.0	2345			
Finger 08:	1056 397.0	1453 438.0	1891 446.0	2337			
Finger 09:	1412 431.0	1843 455.0	2298 442.0	2740			
Finger 10:	1385 429.0	1814 453.0	2267 442.0	2709			
Finger 11:	1447 398.0	1845 426.0	2271 409.0	2680			
Finger 12:	1189 367.0	1556 385.0	1941 397.0	2338			
Finger 13:	1390 394.0	1784 405.0	2189 388.0	2577			
Finger 14:	1263 352.0	1615 366.0	1981 387.0	2368			
Finger 15:	1186 370.0	1556 390.0	1946 412.0	2358			
Finger 16:	1181 378.0	1559 400.0	1959 403.0	2362			
Finger 17:	1246 355.0	1601 377.0	1978 415.0	2393			
Finger 18:	1354 360.0	1714 366.0	2080 376.0	2456			
Finger 19:	1137 342.0	1479 371.0	1850 386.0	2236			
Finger 20:	1389 367.0	1756 373.0	2129 372.0	2501			
Finger 21:	1312 374.0	1686 379.0	2065 389.0	2454			
Finger 22:	1335 396.0	1731 408.0	2139 415.0	2554			
Finger 23:	1489 401.0	1890 406.0	2296 406.0	2702			
Finger 24:	1293 348.0	1641 354.0	1995 367.0	2362			
Finger 25:	1439 371.0	1810 375.0	2185 382.0	2567			
Finger 26:	1428 365.0	1793 366.0	2159 373.0	2532			
Finger 27:	1275 364.0	1639 380.0	2019 397.0	2416			
Finger 28:	1461 361.0	1822 360.0	2182 368.0	2550			
Finger 29:	1519 391.0	1910 383.0	2293 377.0	2670			
Finger 30:	1213 399.0	1612 421.0	2033 433.0	2466			
Finger 31:	1045 386.0	1431 411.0	1842 426.0	2268			
Finger 32:	1321 412.0	1733 419.0	2152 430.0	2582			
Finger 33:	1312 407.0	1719 426.0	2145 436.0	2581			
Finger 34:	1433 409.0	1842 420.0	2262 422.0	2684			
Finger 35:	1241 418.0	1659 432.0	2091 435.0	2526			

Finger 35:	1211	410.0	1605	432.0	2051	436.0	2028
Finger 36:	1204	411.0	1615	434.0	2049	438.0	2487
Finger 37:	1192	412.0	1604	432.0	2036	440.0	2476
Finger 38:	1055	382.0	1437	410.0	1847	424.0	2271
Finger 39:	1030	383.0	1413	415.0	1828	429.0	2257
Finger 40:	1231	403.0	1634	426.0	2060	435.0	2495

Gamma Ray Calibration Report			
Serial Number:	050836		
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	Whiting Oil & Gas
	Well	Church 36-2523H
	Field	Wildcat
	County	Weld
	State	Colorado