



Radial Cement Bond Gamma Ray / CCL Log

Company Cub Creek Energy		Country USA	
Well Marham 1			
Field Wattenberg			
County Weld			
State Colorado			
Company Cub Creek Energy Well Marham 1 Field Wattenberg County Weld State Colorado		Country USA	
Location: API #: 05-123-43650 Section: 32, Township: 4N, Range: 68W SHL: 2357 FSL & 1515 FEL SEC TWP RGE Permanent Datum Ground Level Elevation 5042' Log Measured From K.B. 17' APD Drilling Measured From K.B.		Other Services None Elevation K.B. 5059' D.F. 5058' G.L. 5042'	

Date	10-26-2016		
Run Number	One		
Depth Driller	12202'		
Depth Logger	7780'		
Bottom Logged Interval	7780'		
Top Log Interval	Surface		
Open Hole Size	8.75"		
Type Fluid	Water		
Density / Viscosity	8.3		
Max. Recorded Temp.	222.76 degF		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	See Log		
Equipment Number	W-200		
Location	Windsor, CO		
Recorded By	W. Richardson		
Witnessed By	R. Pape		
Borehole Record			
Run Number	Bit	From	To
One	13 1/4"	0'	1540"
Two	8 3/4"	0'	12202'
Tubing Record			
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			
Production String	5 1/2"	17#	Surface
Liner			

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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.

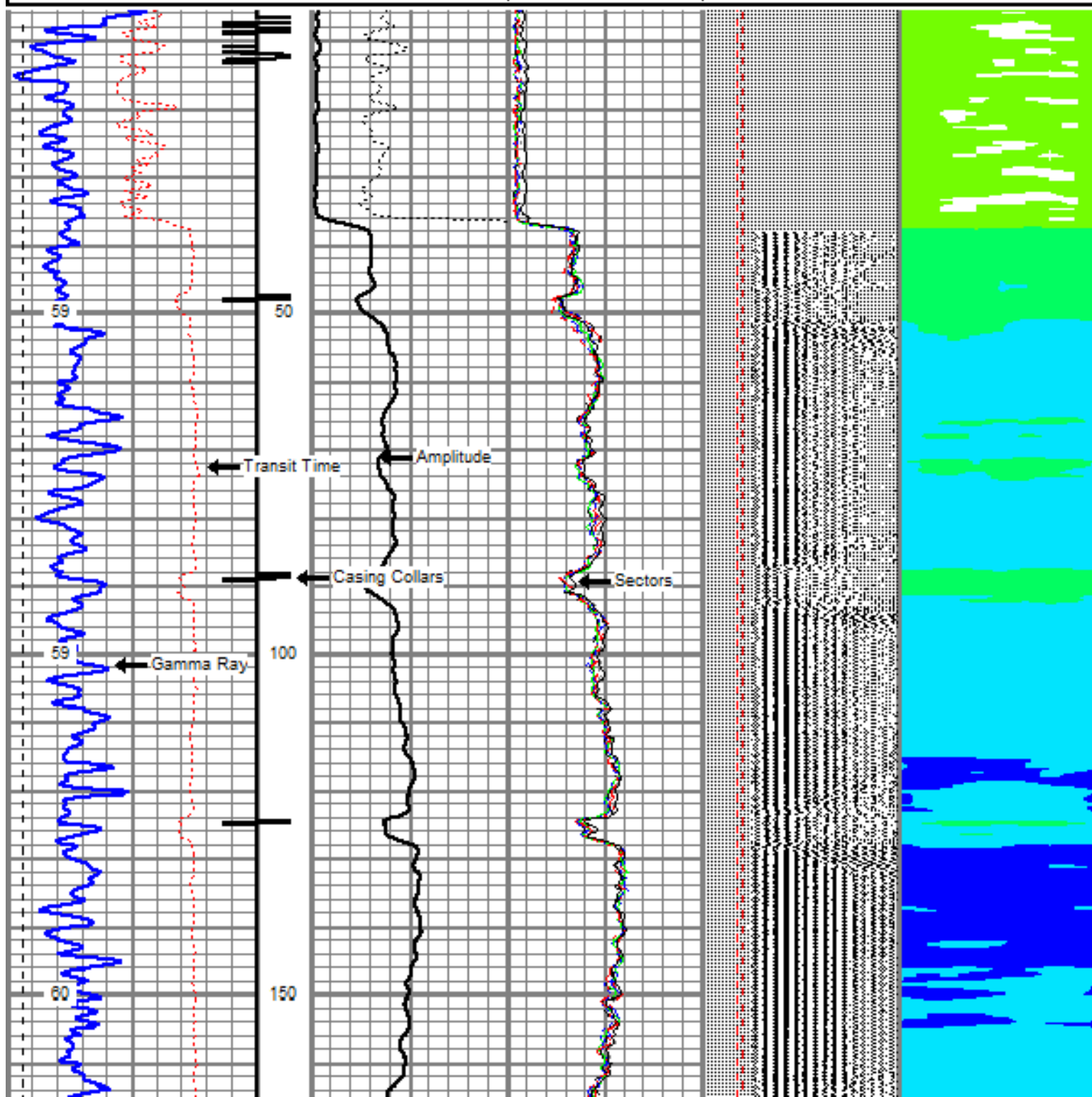
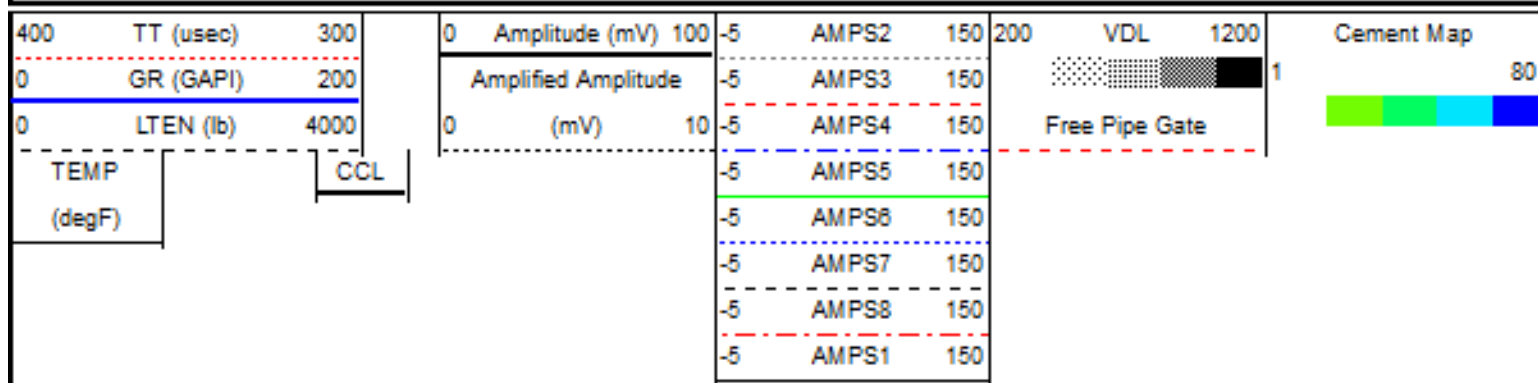
Comments

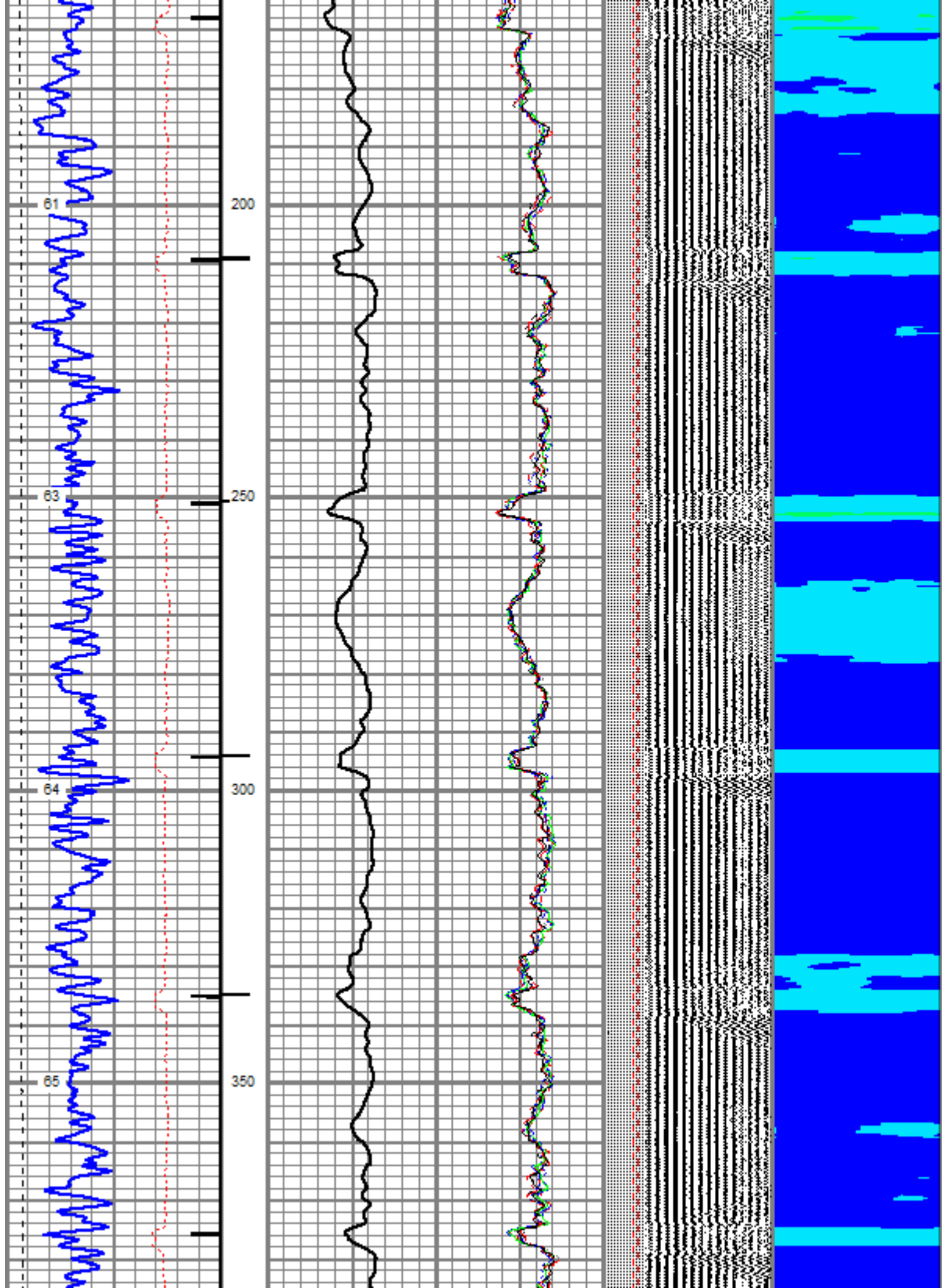
*****Thank You For Using Cutters Wireline*****
 Log Ran as First Log In Well
 Logged with 0 PSI

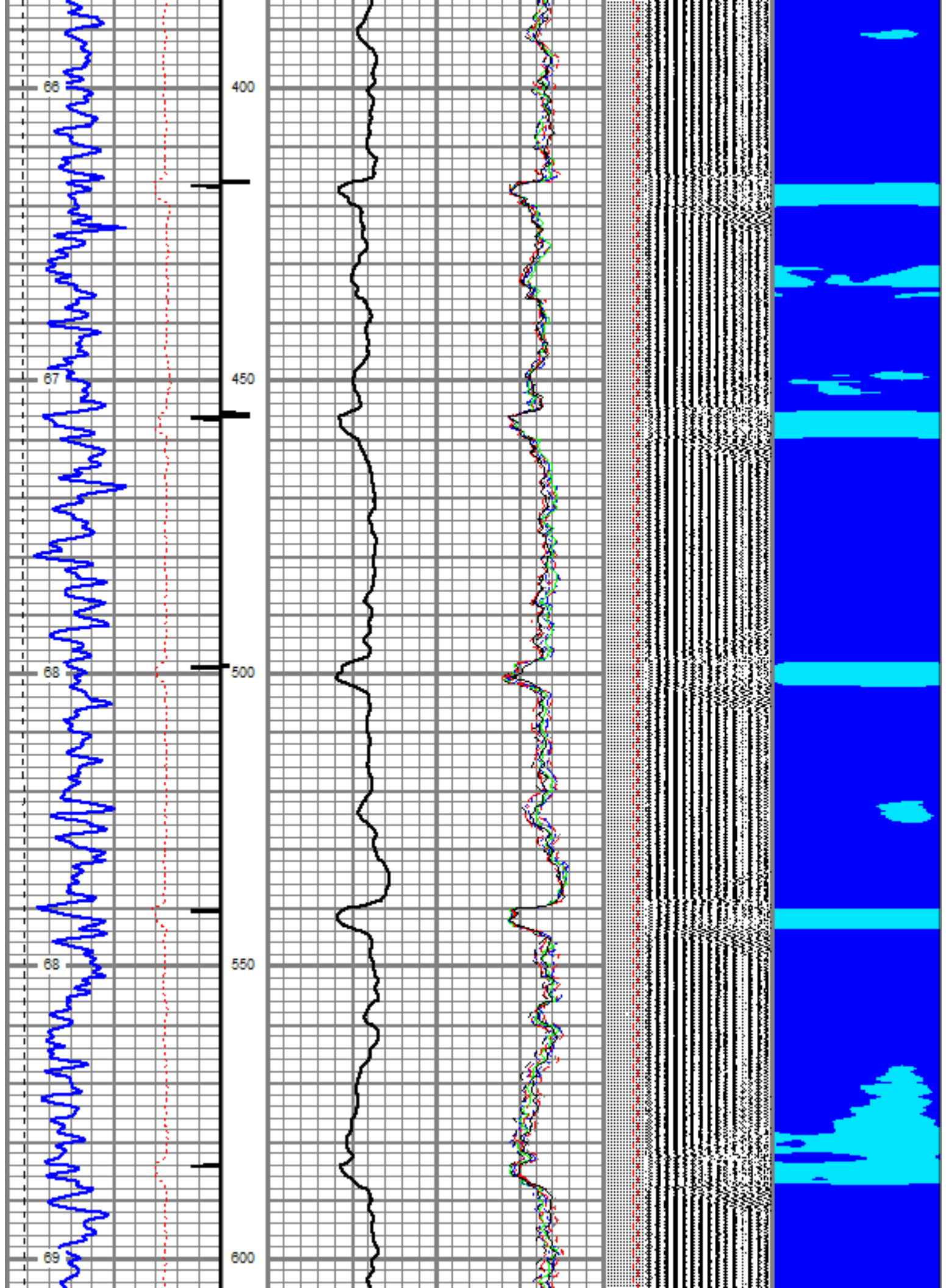


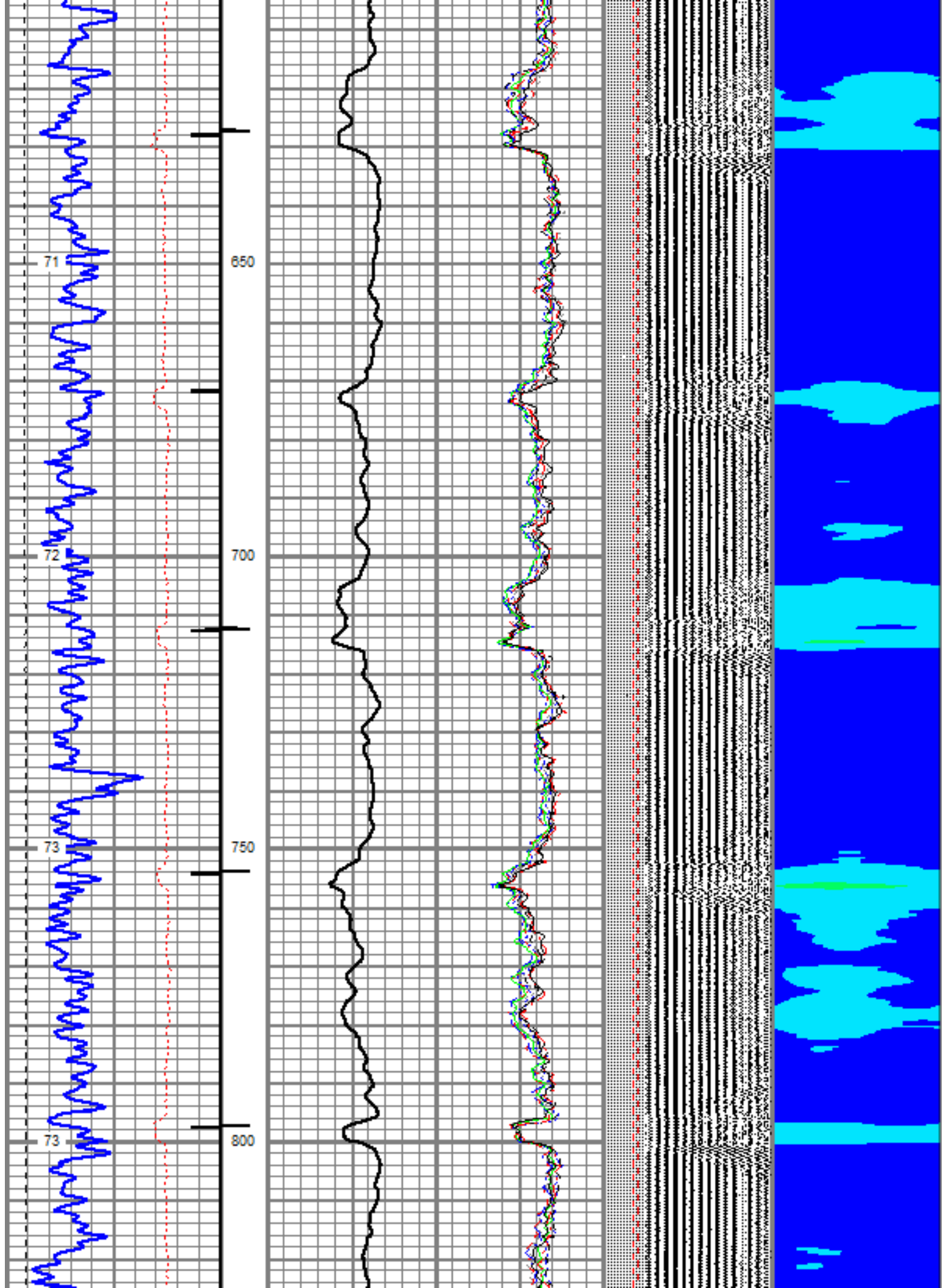
Main Pass 5 " = 100'

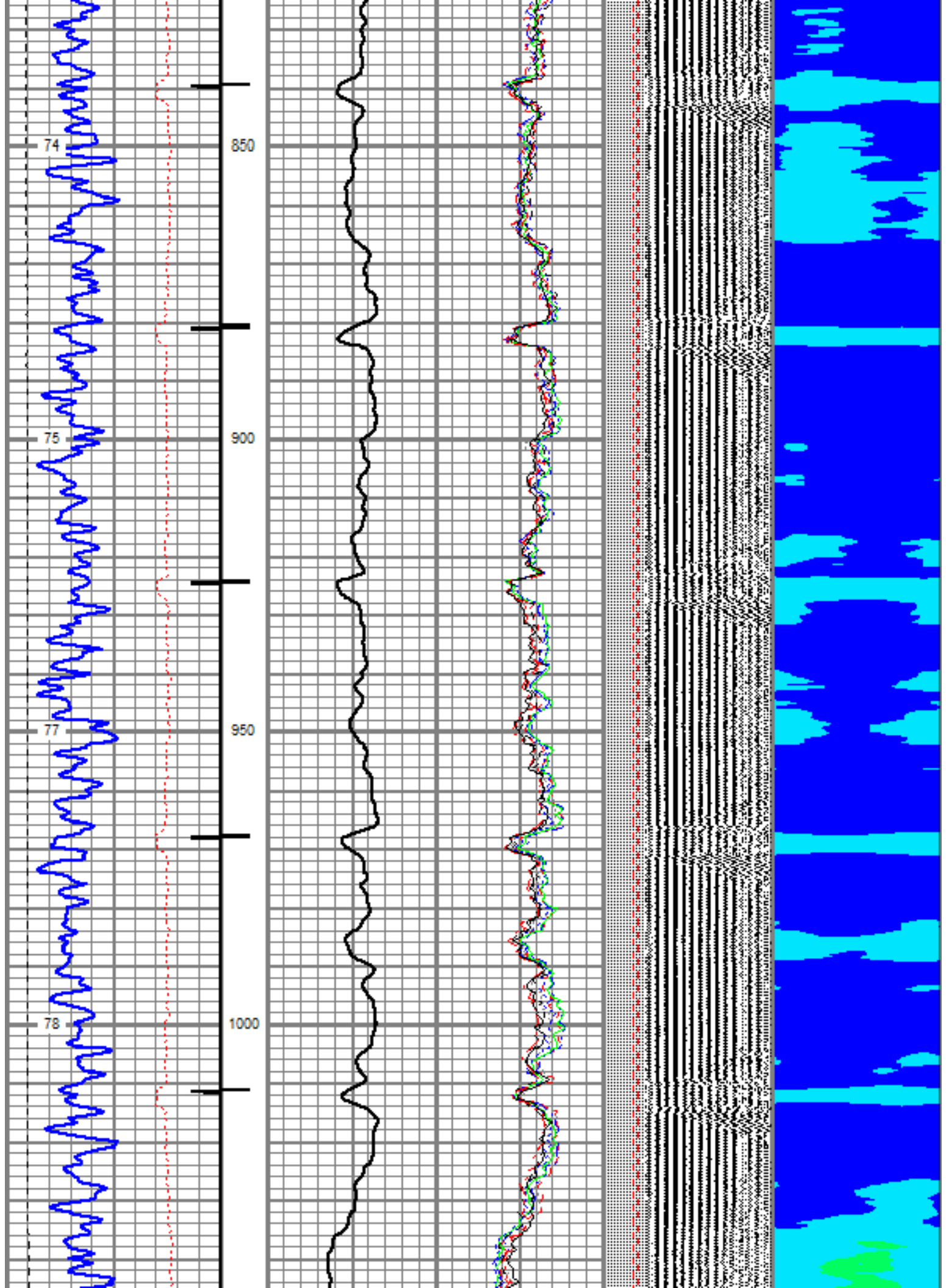
Database File: cub_creek_markham_1.db
 Dataset Pathname: pass3.1
 Presentation Format: rbl55
 Dataset Creation: Thu Oct 27 09:25:49 2016 by Calc Std Casedhole 09061
 Charted by: Depth in Feet scaled 1:240

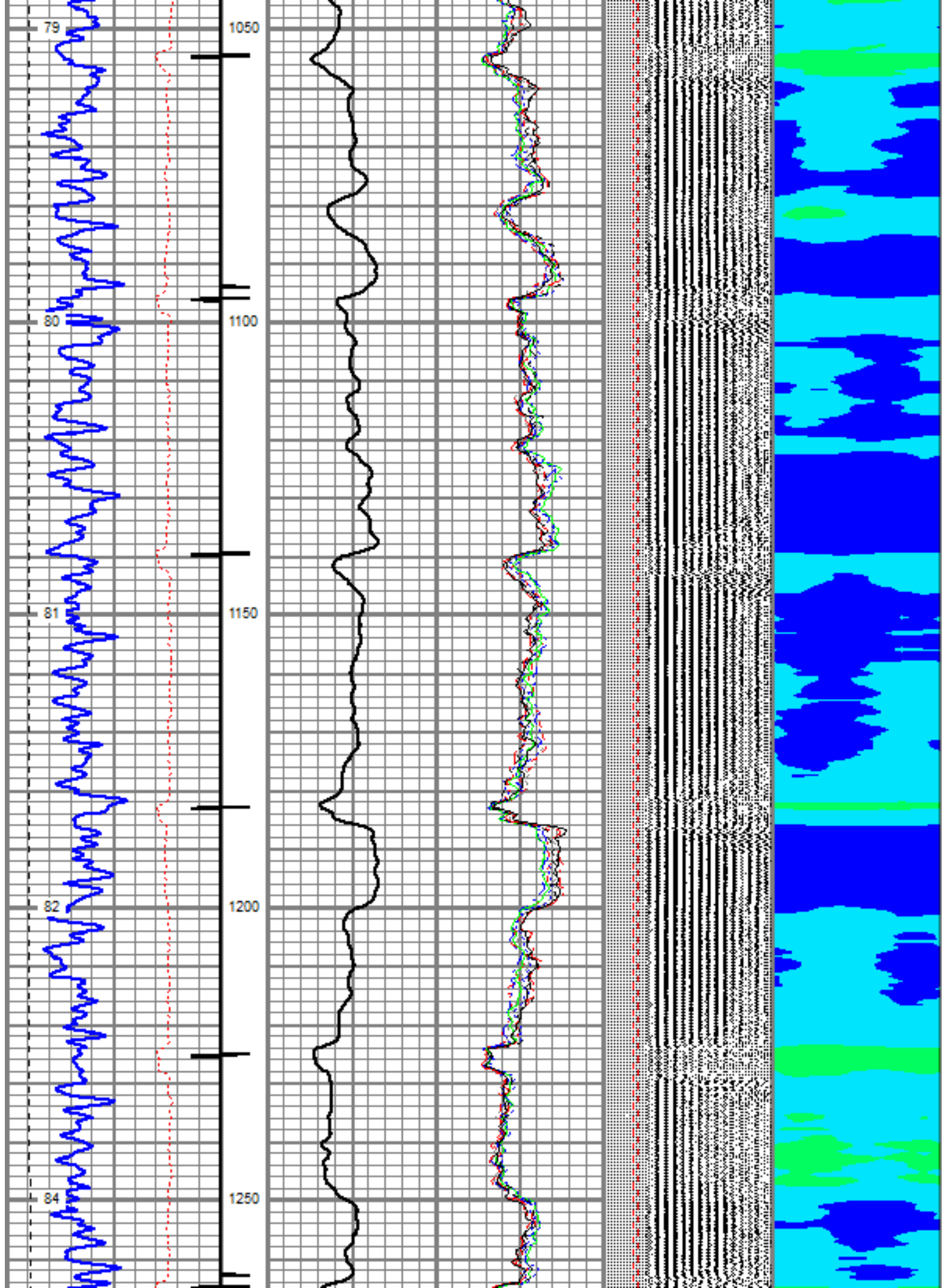


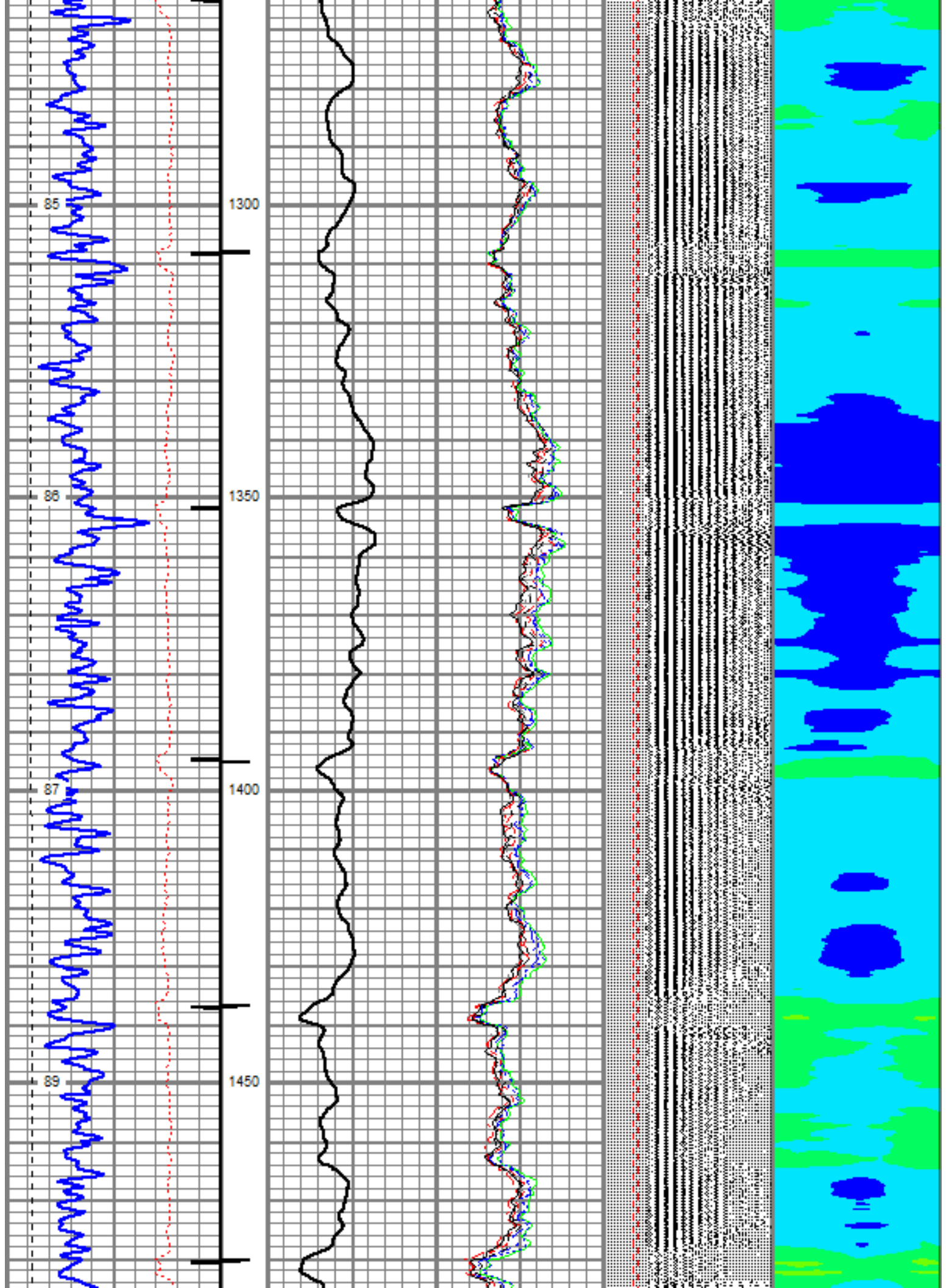


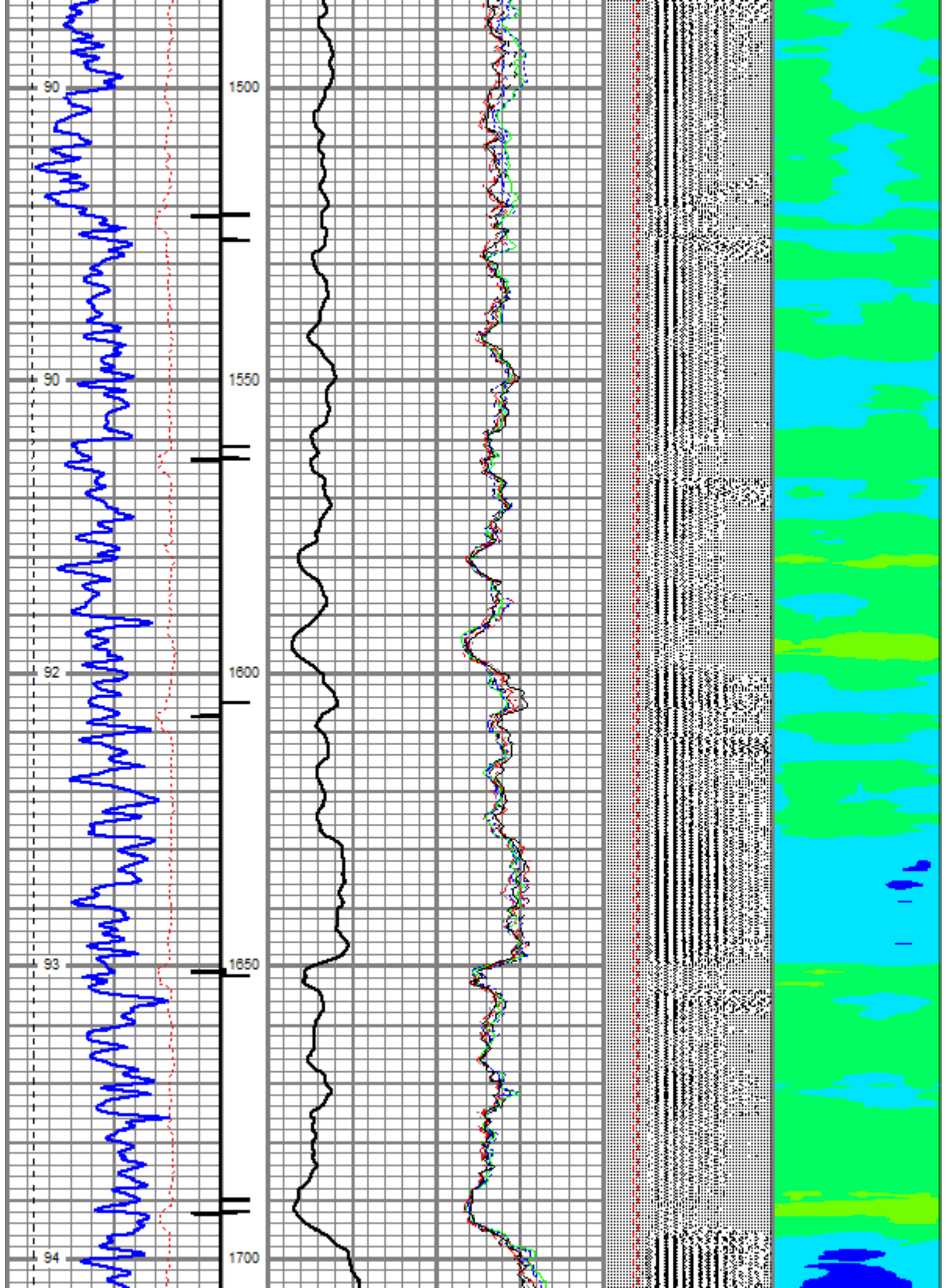


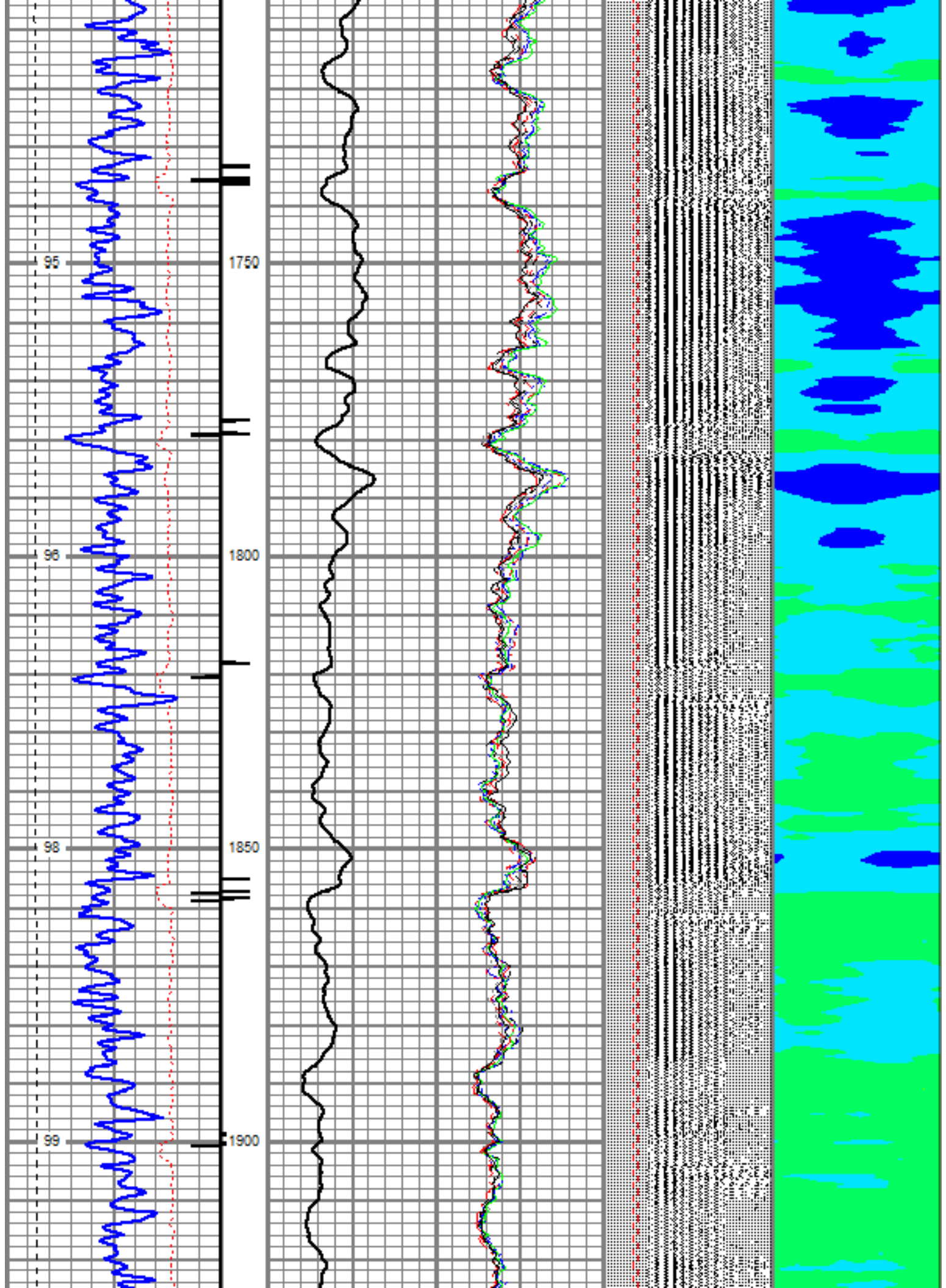


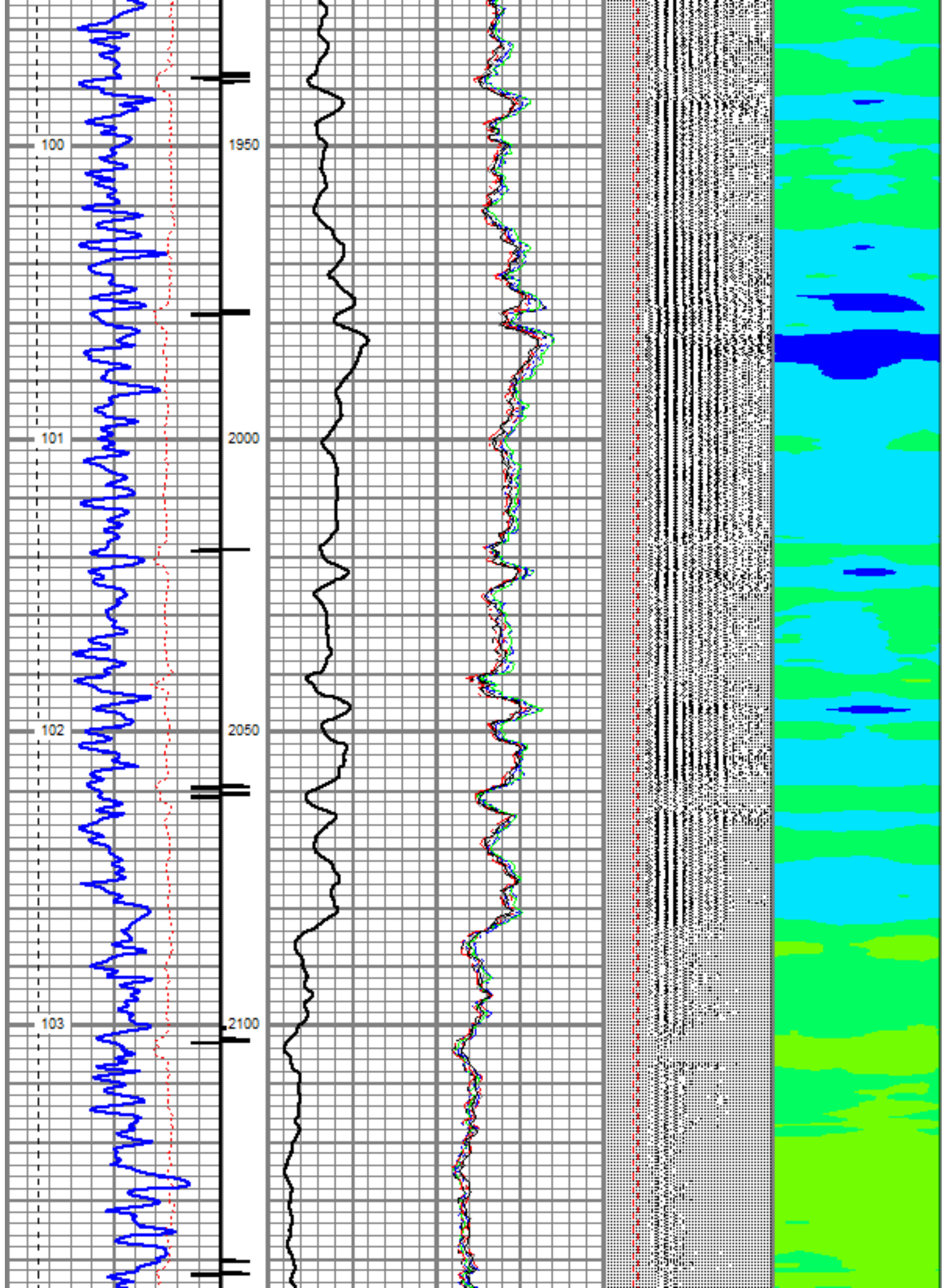


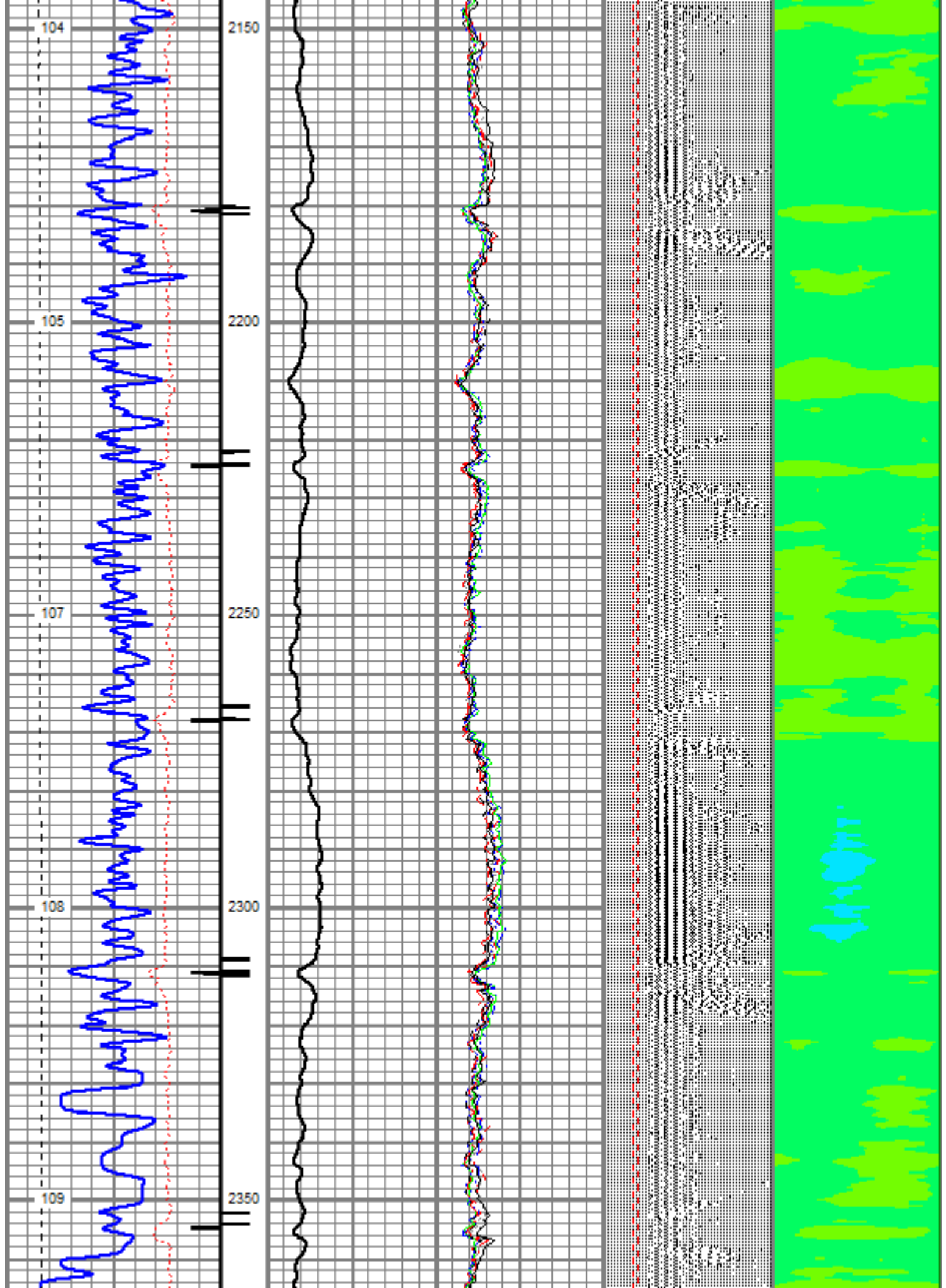


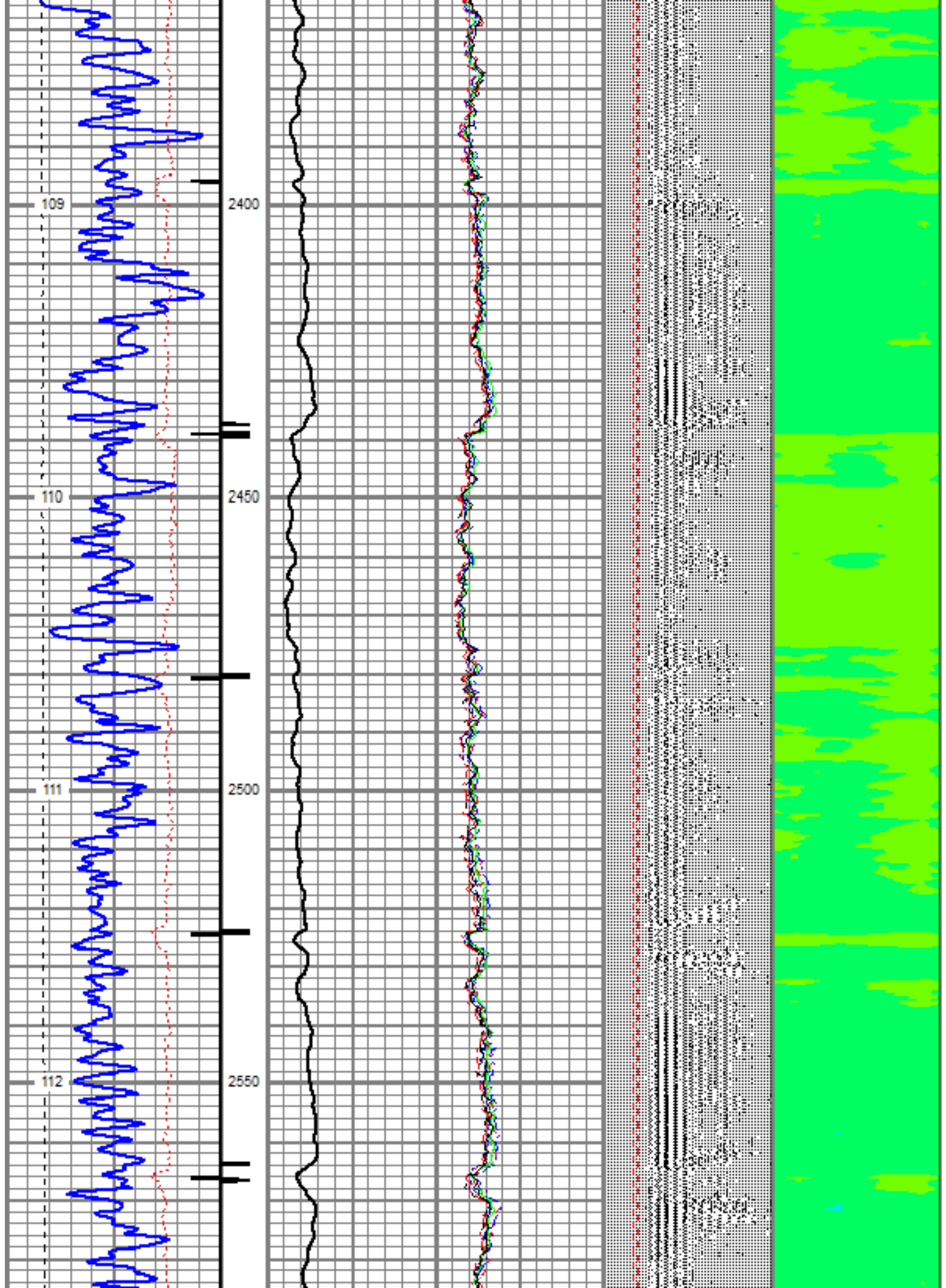


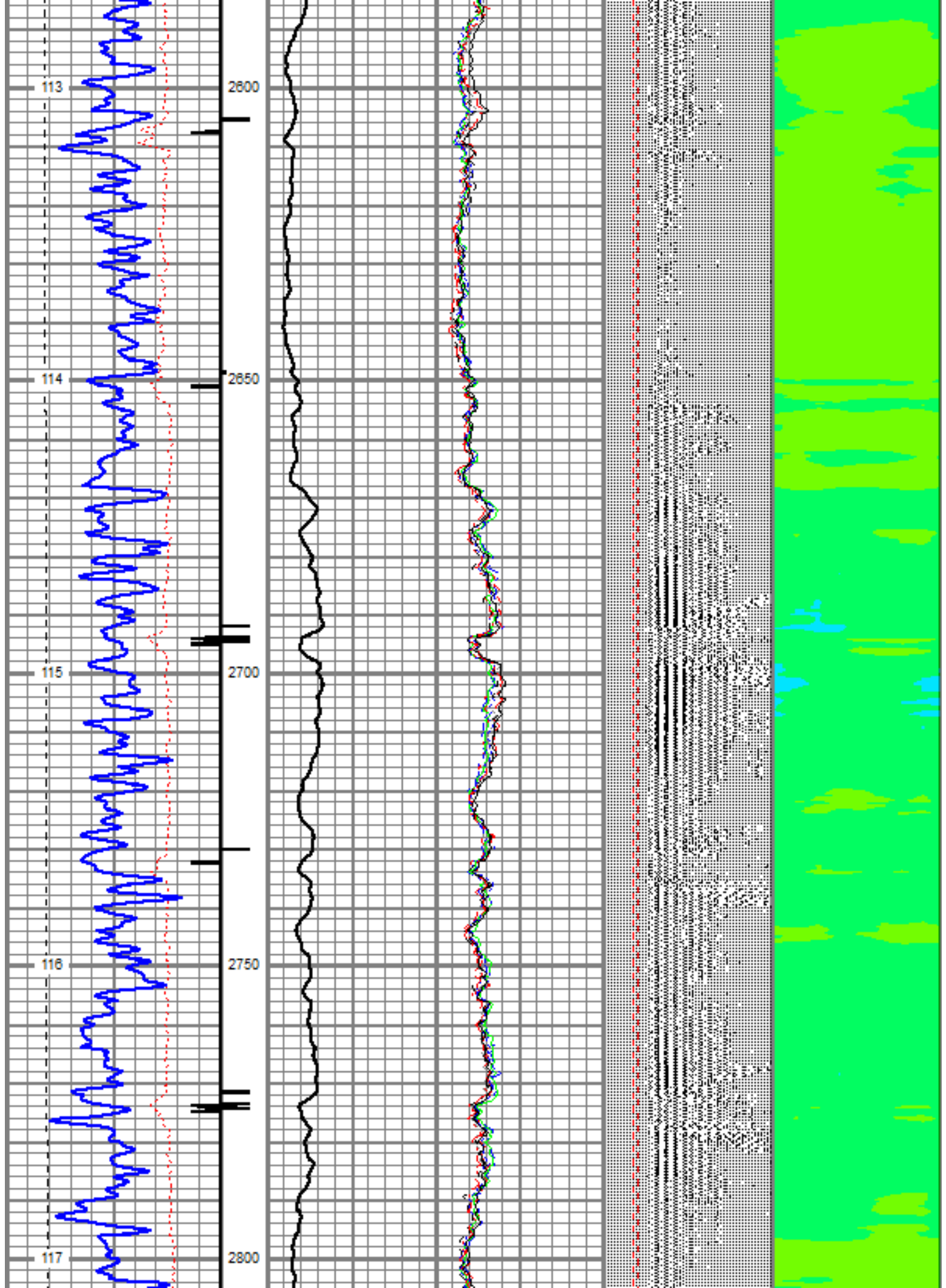


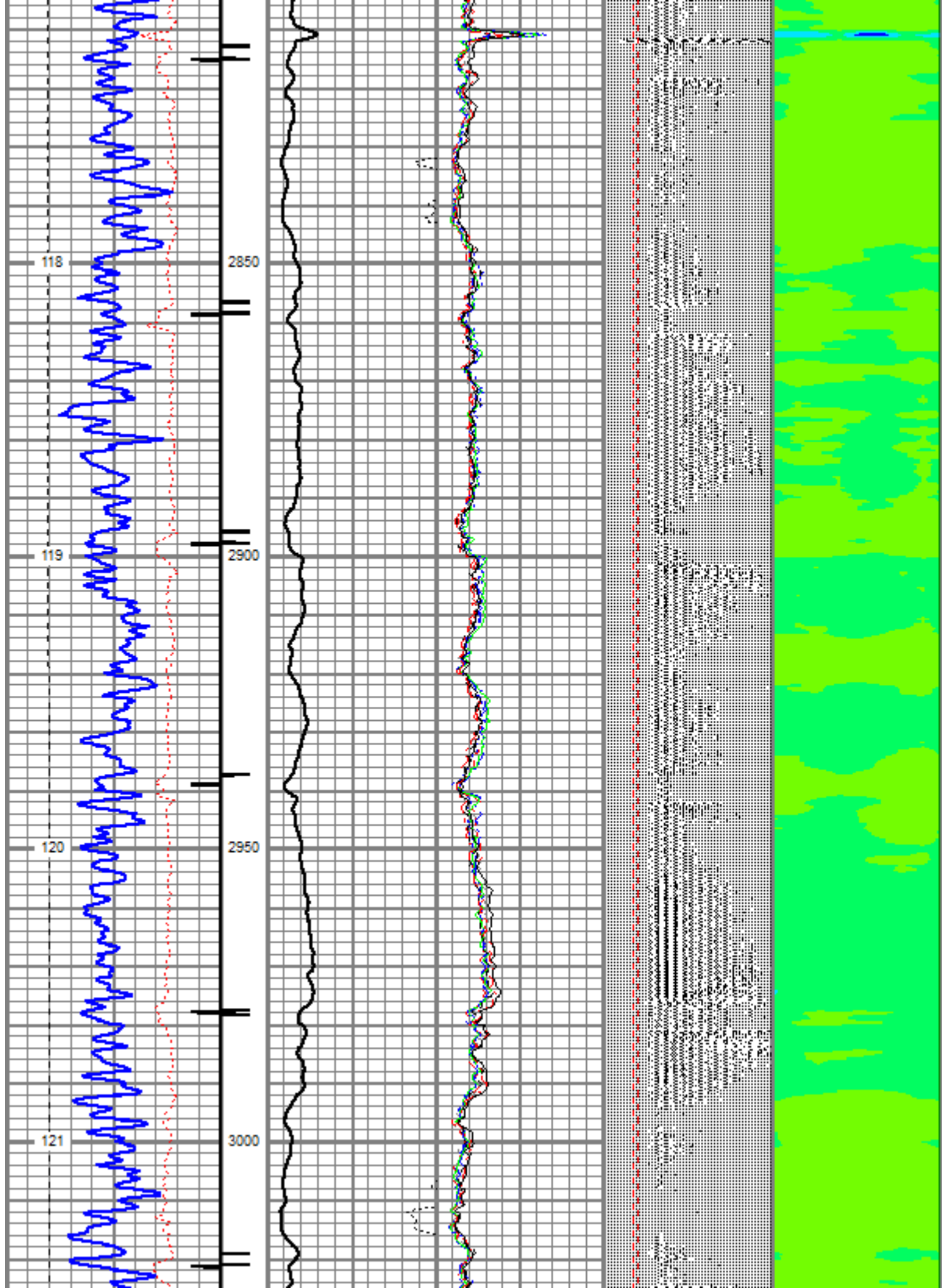


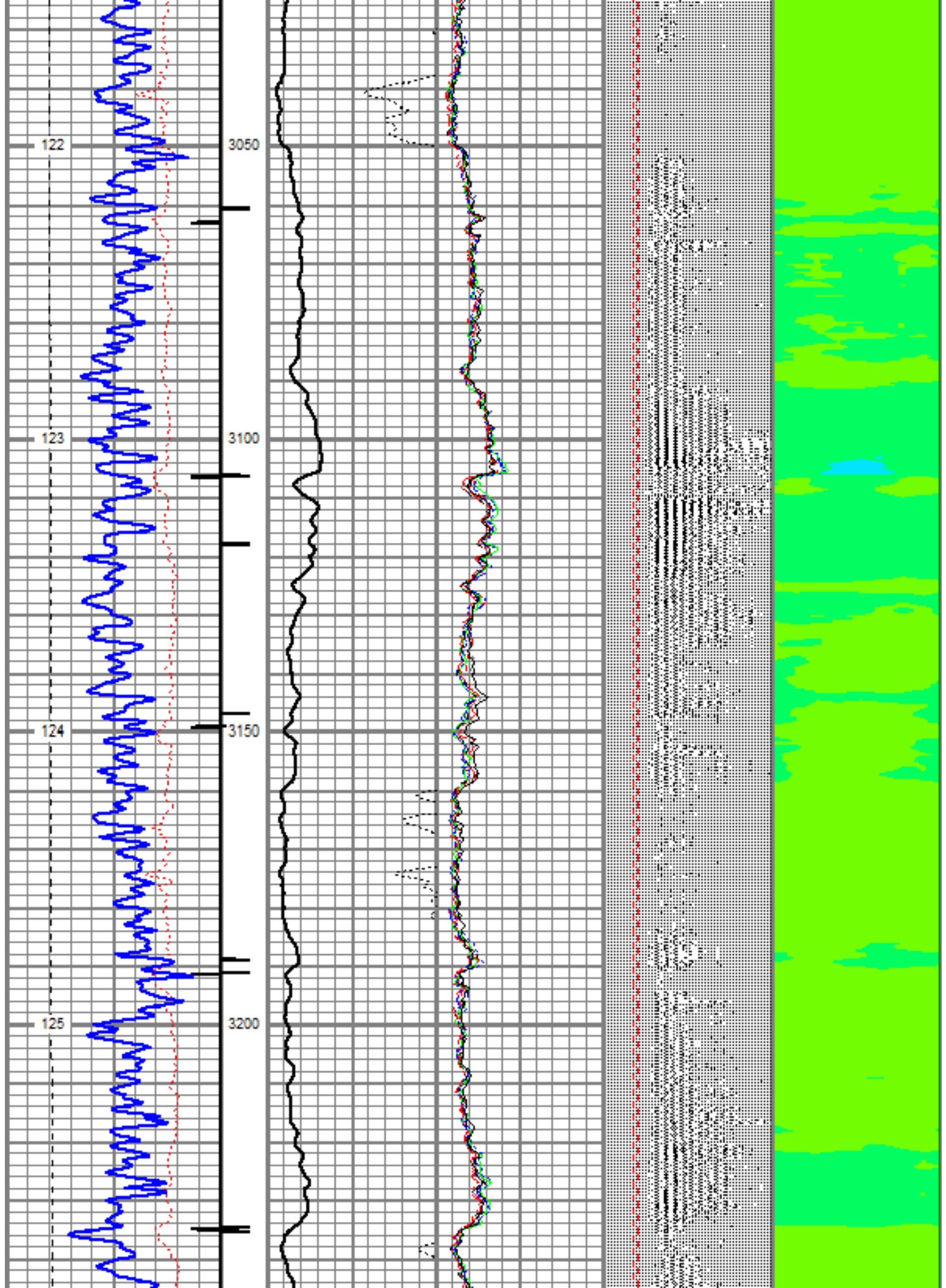


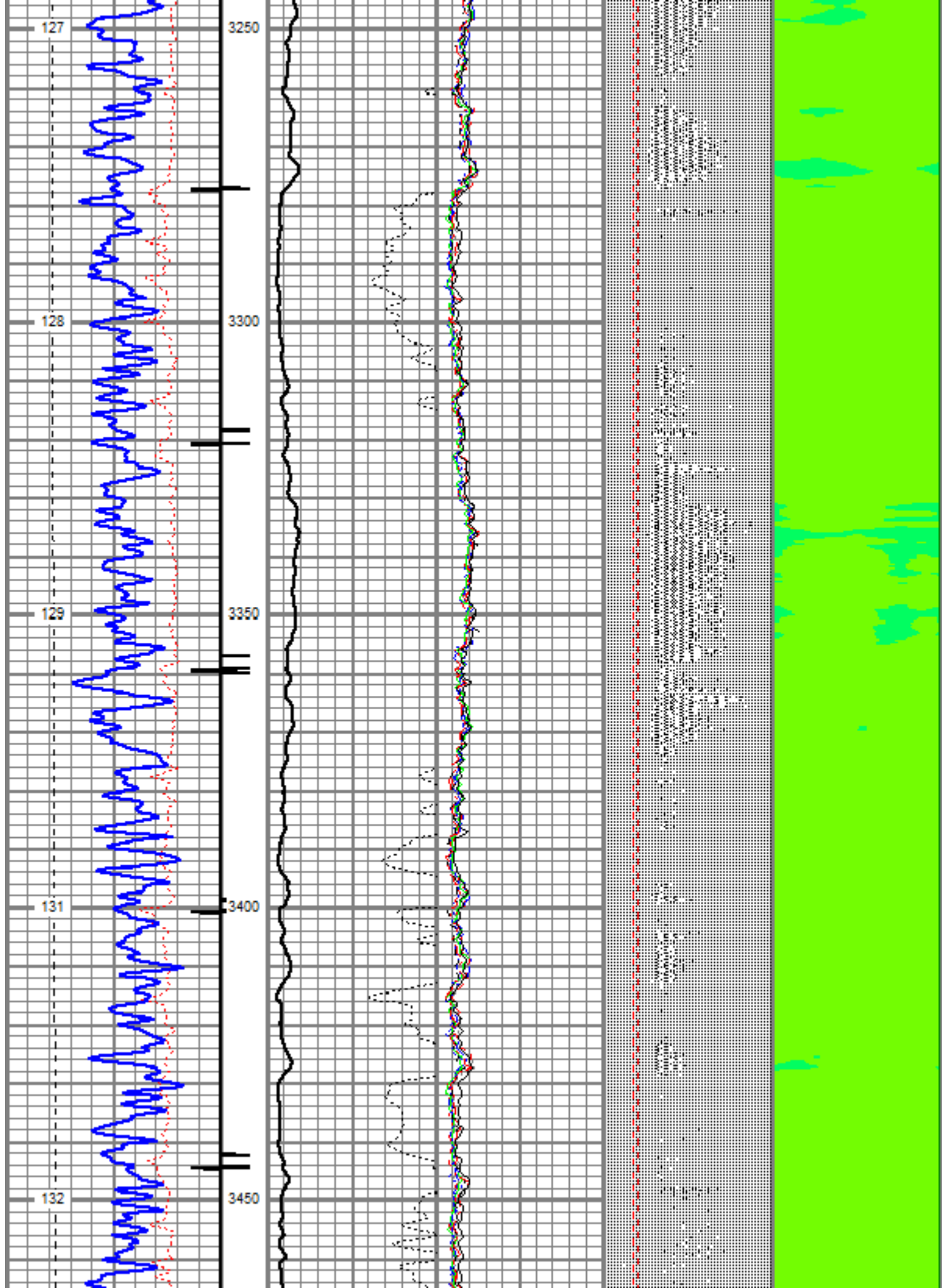


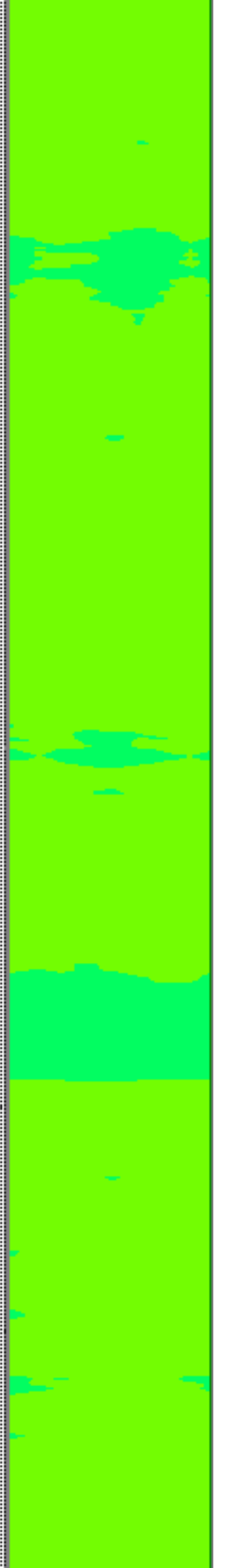
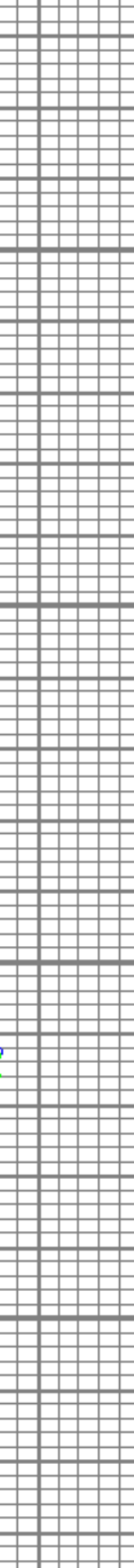
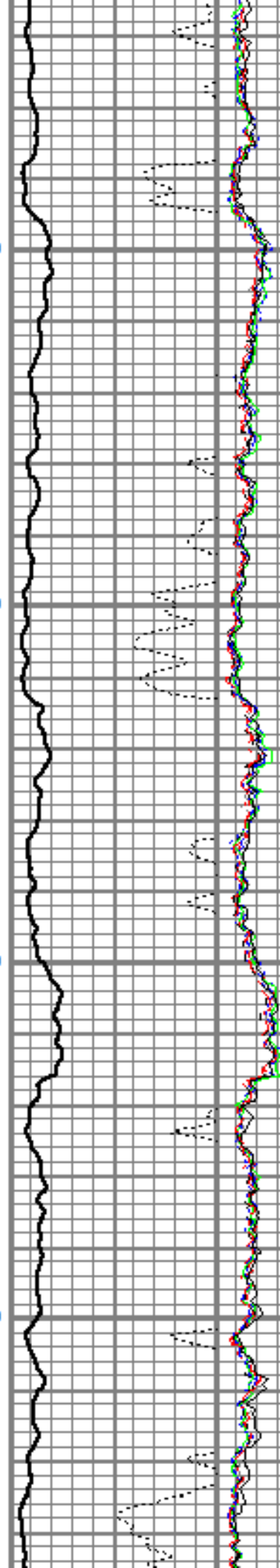
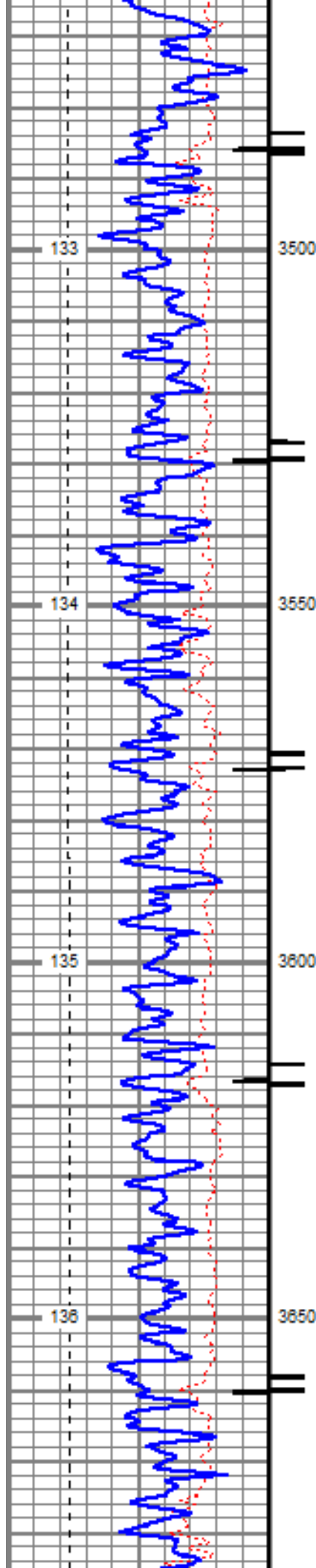


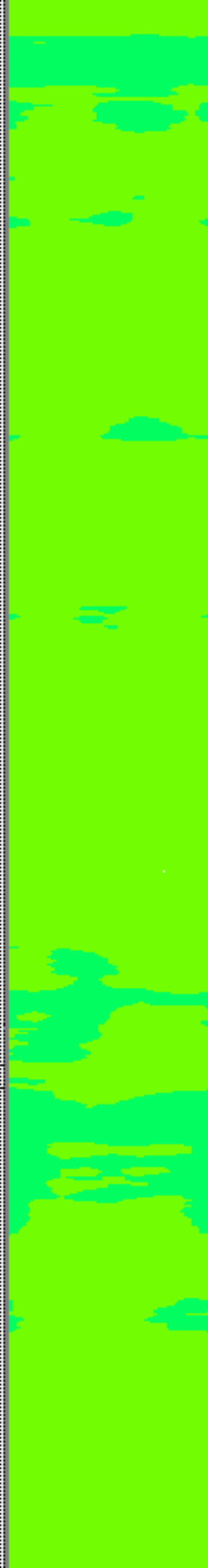
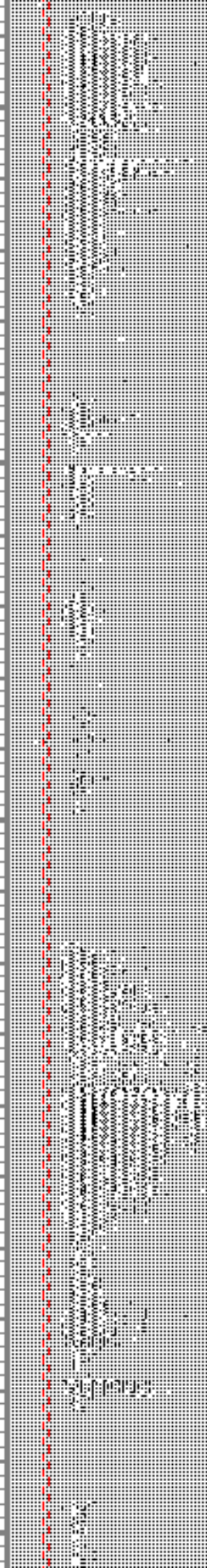
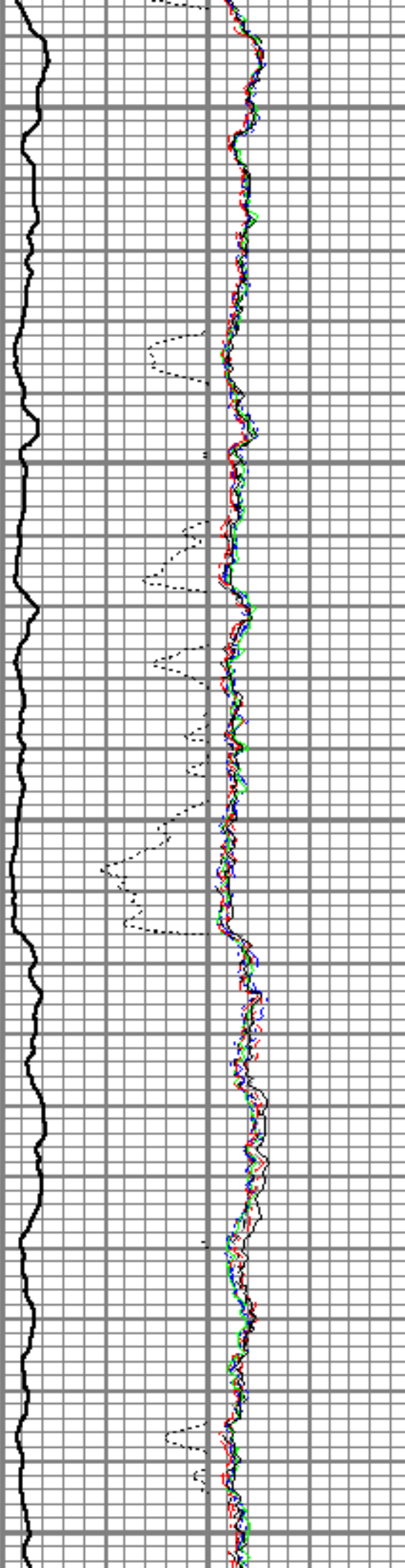
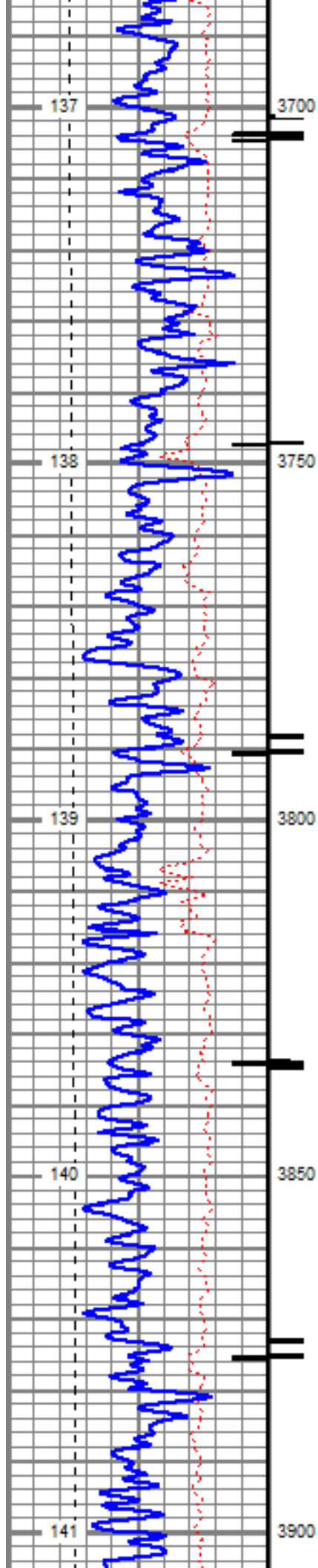


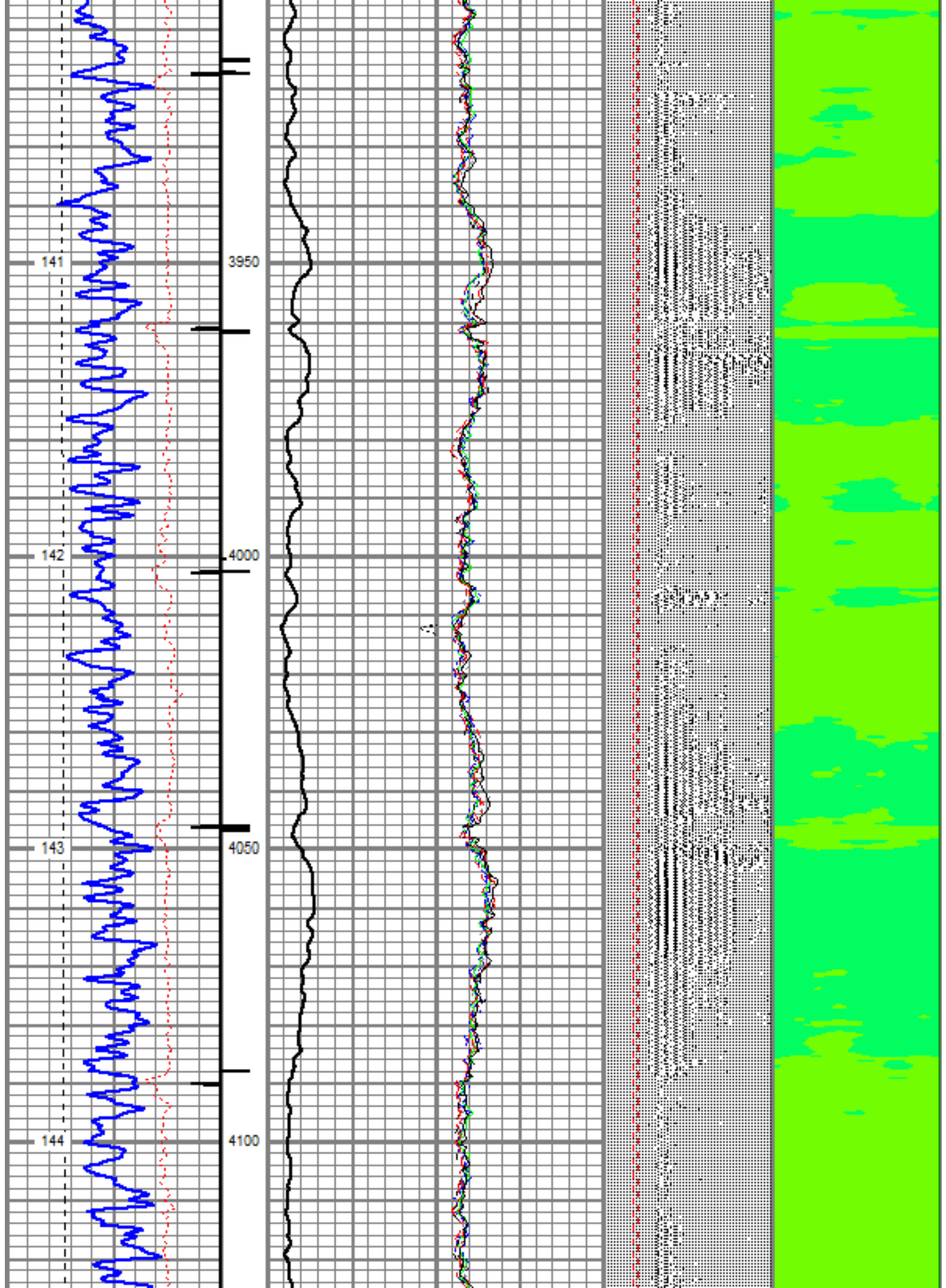


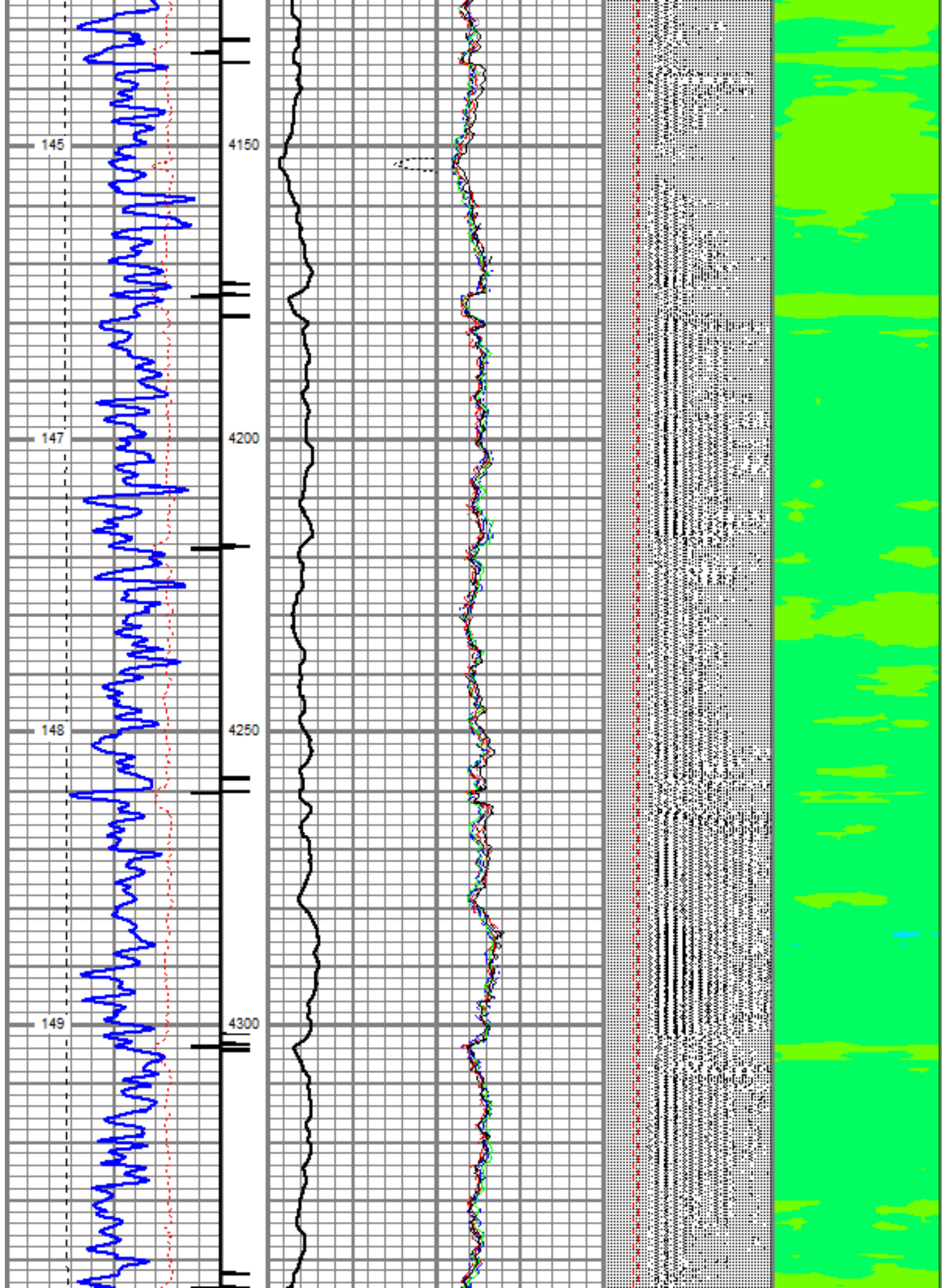


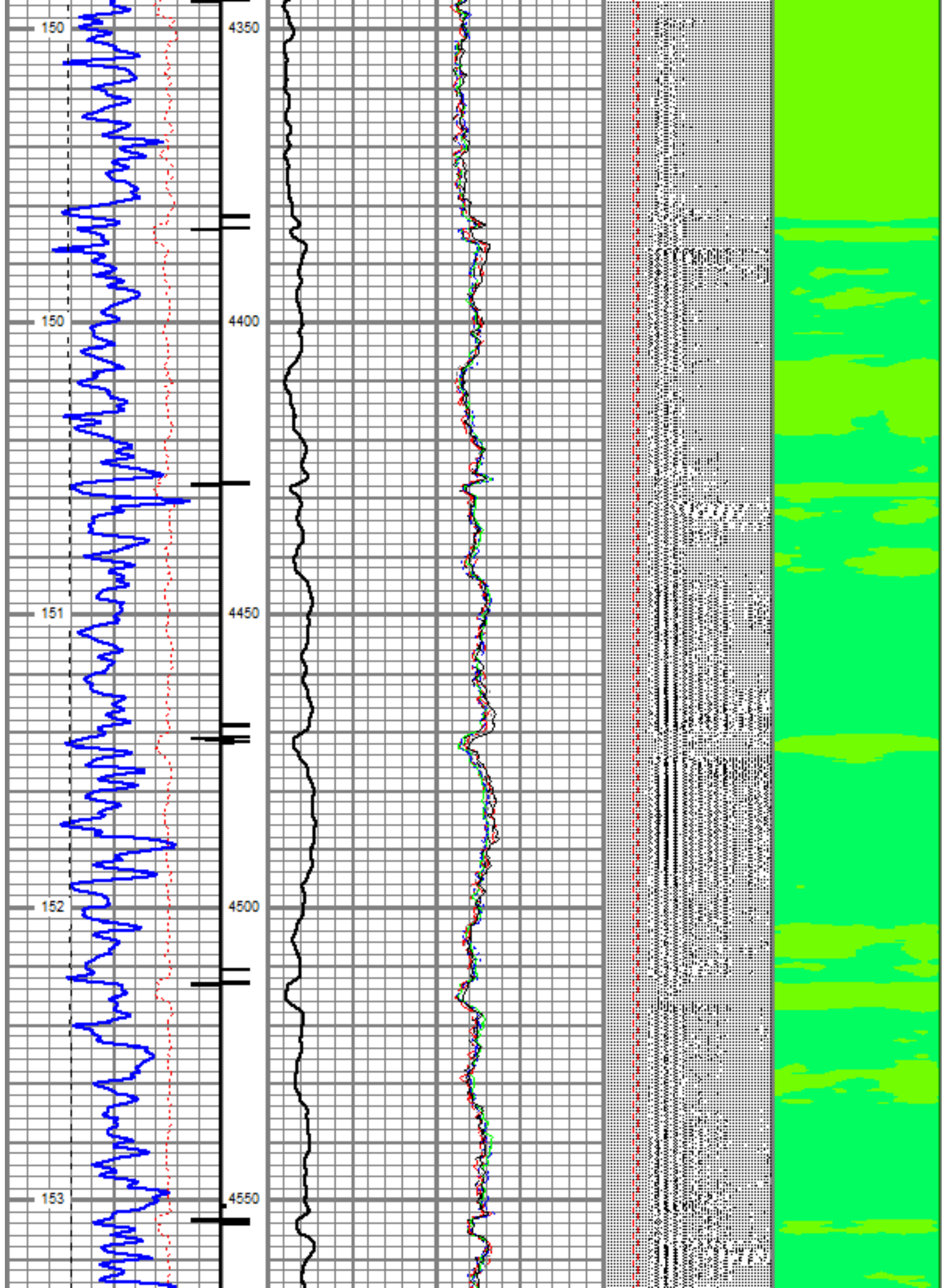


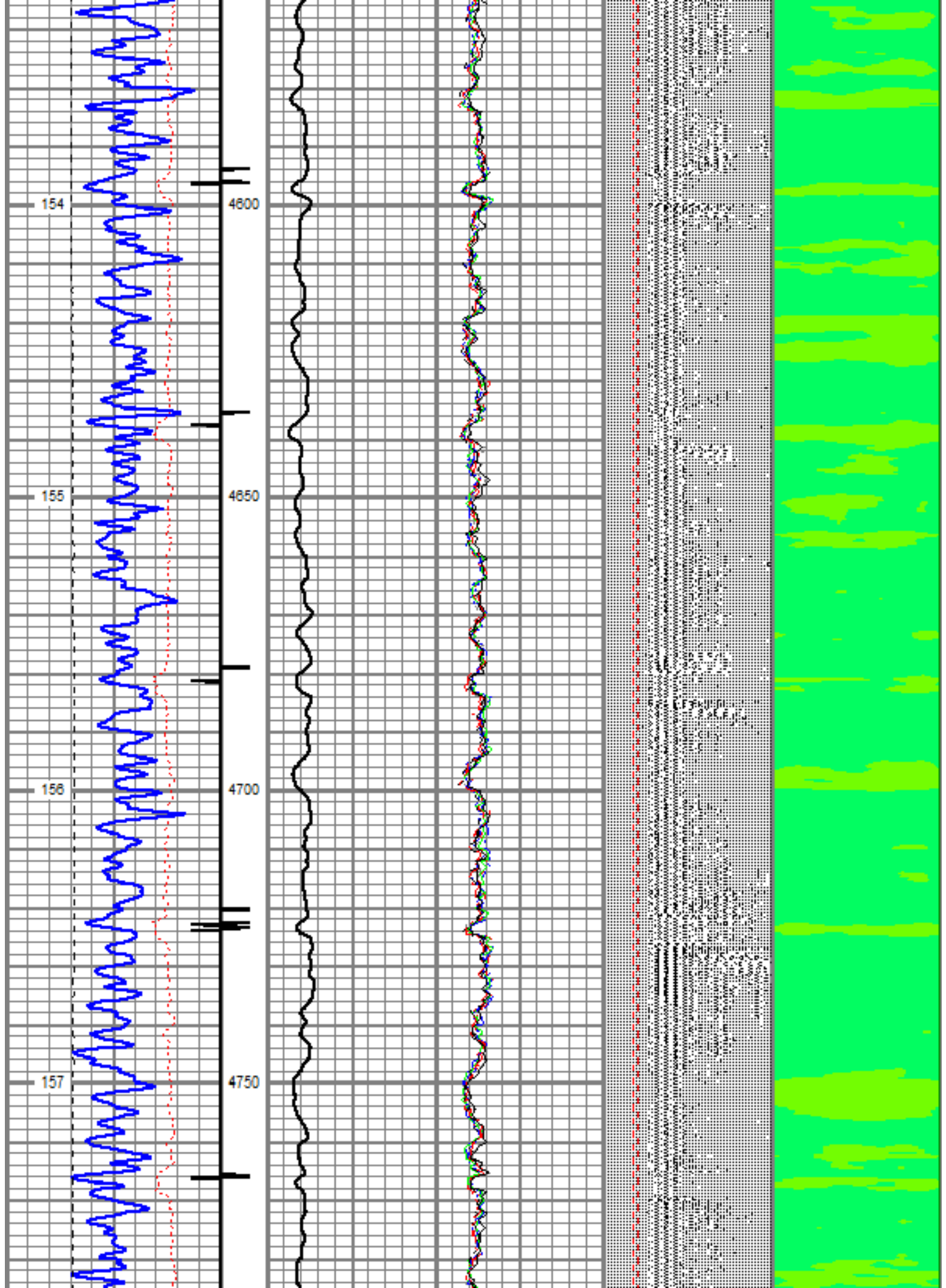


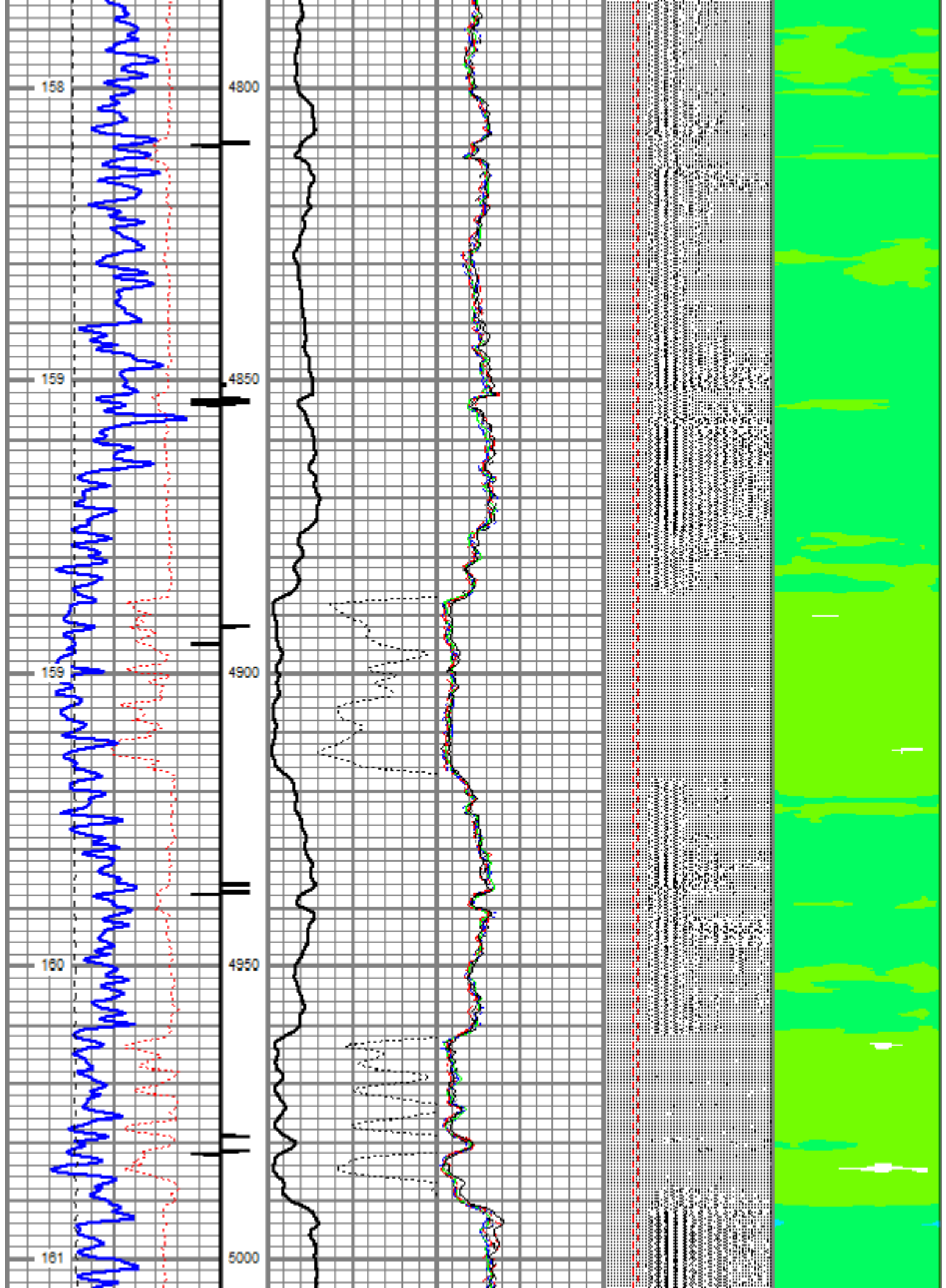


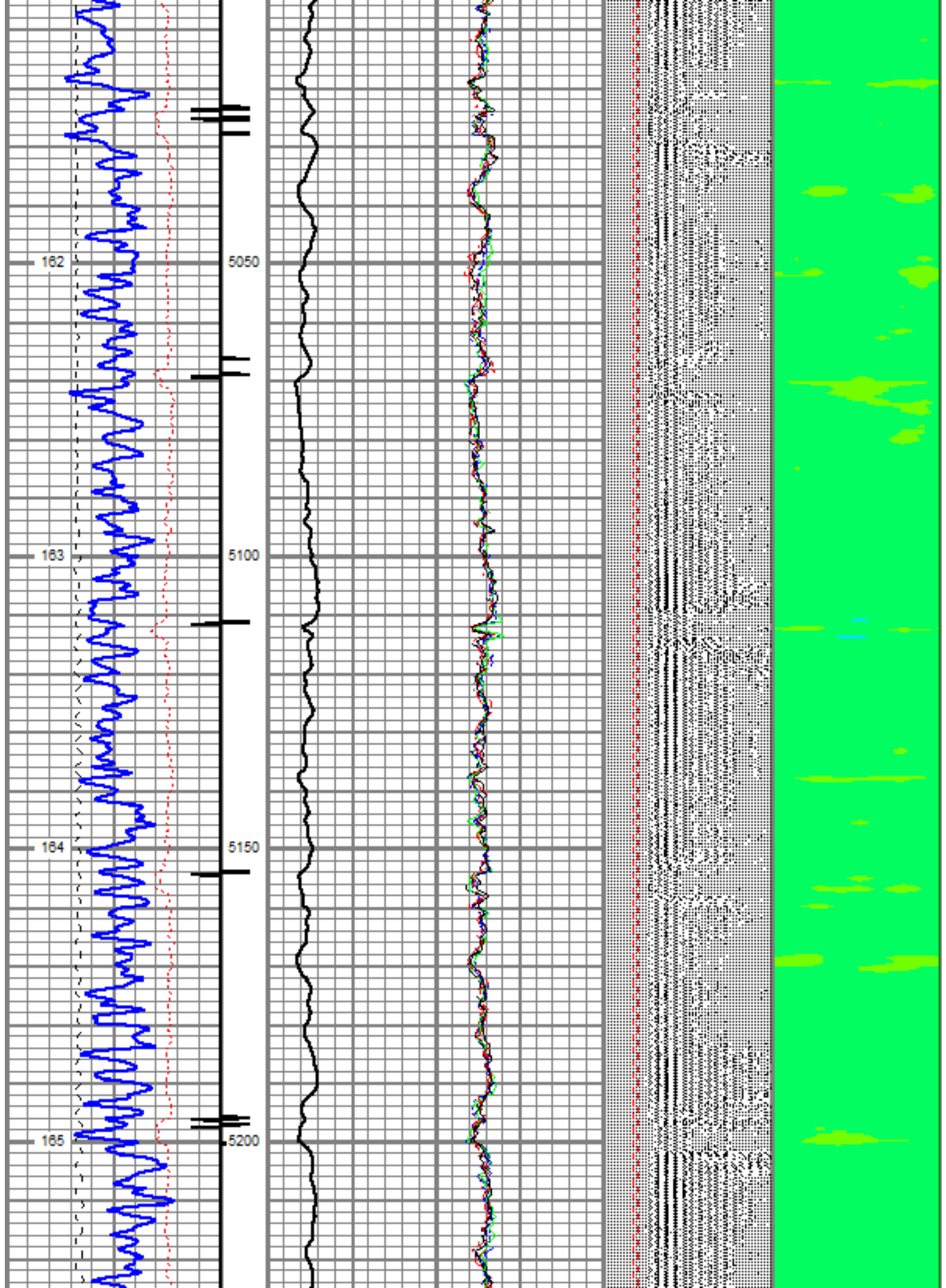


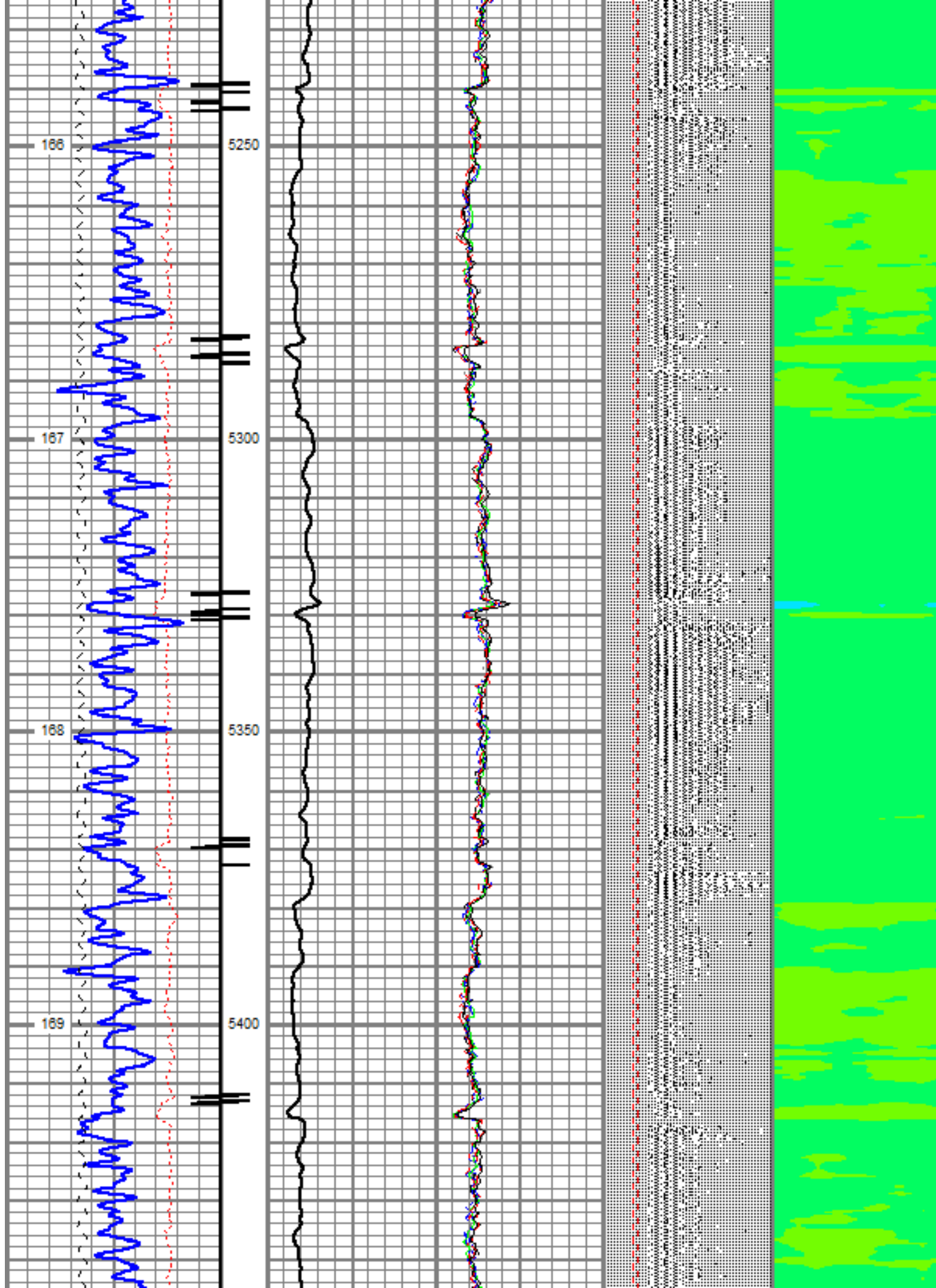


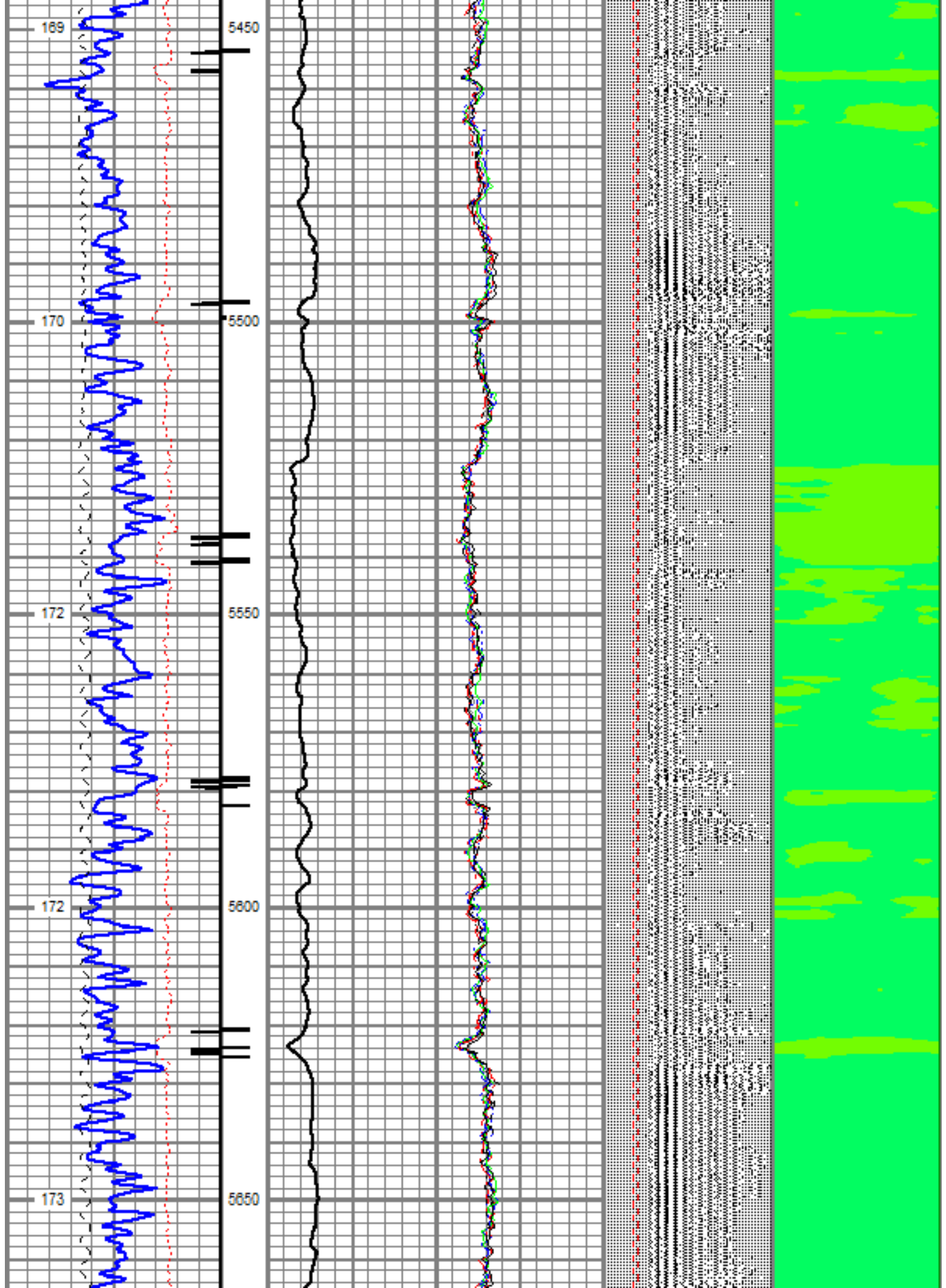


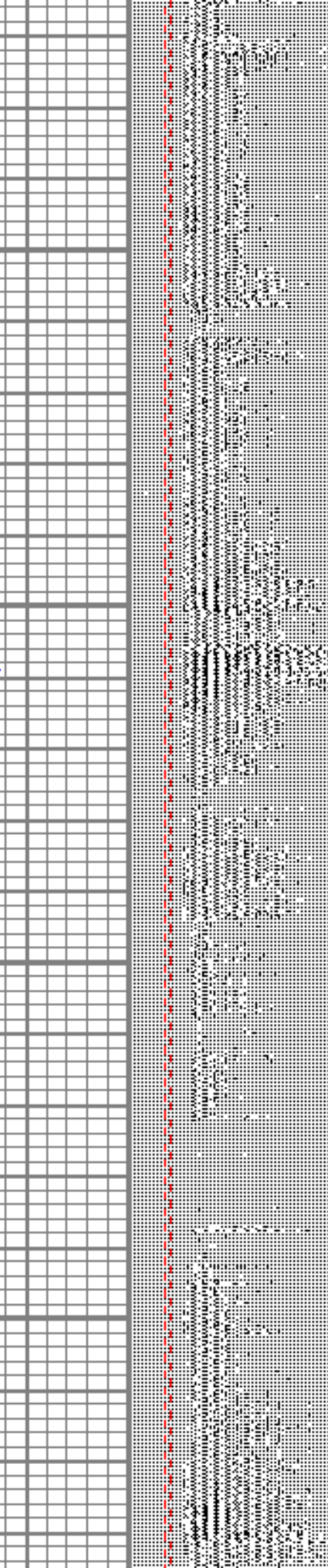
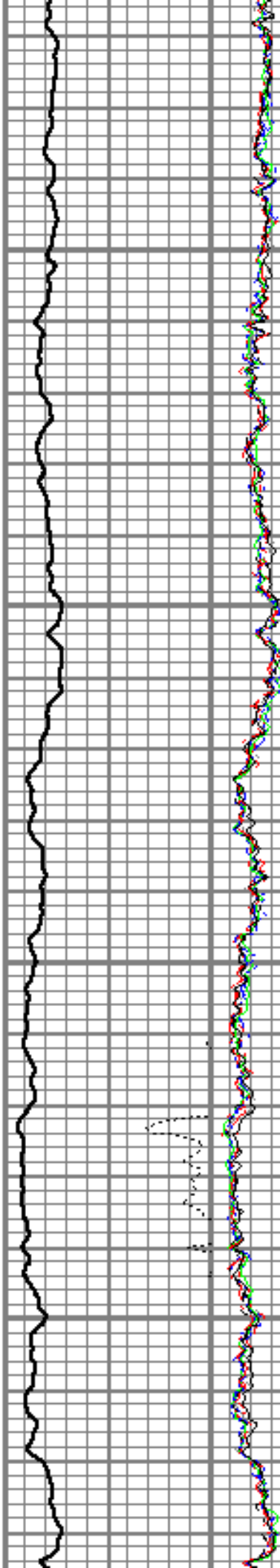
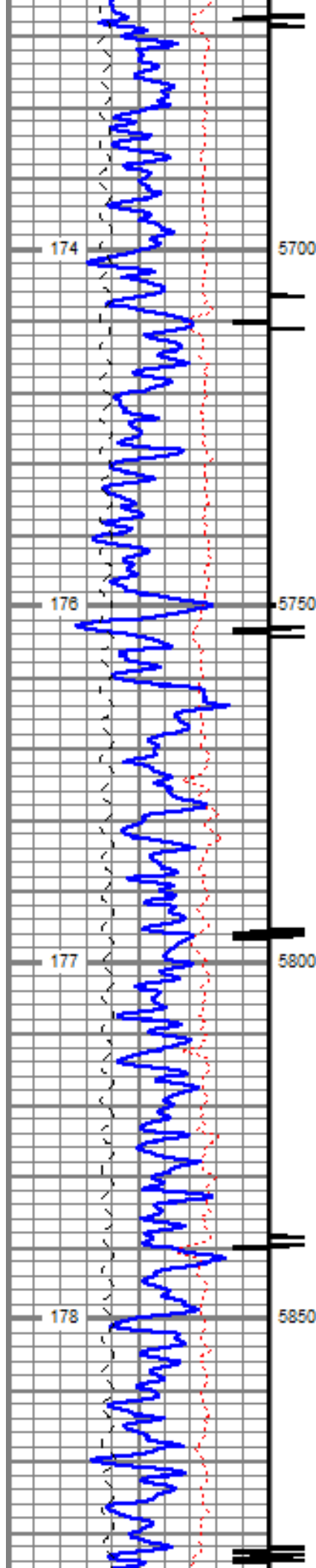


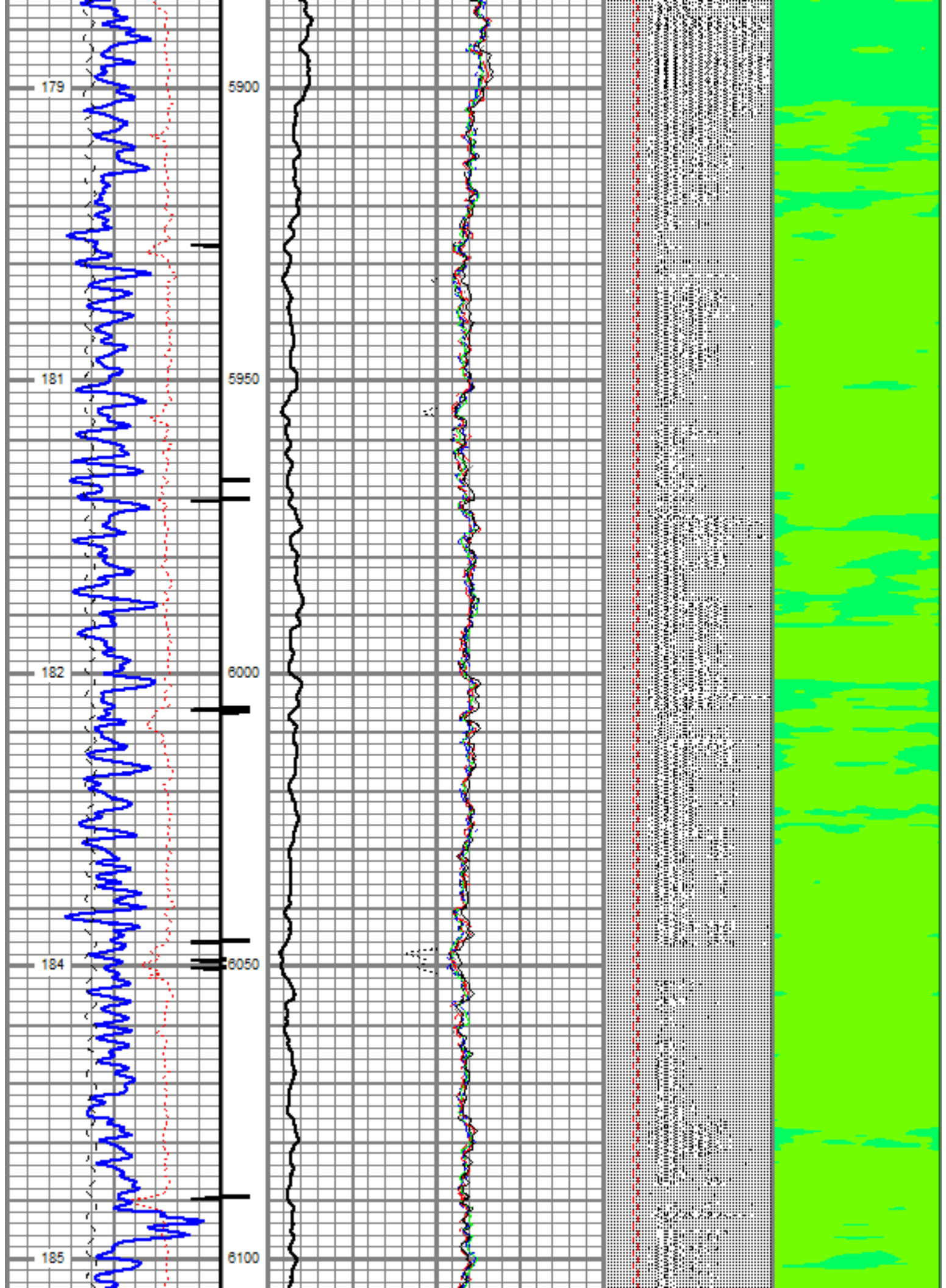


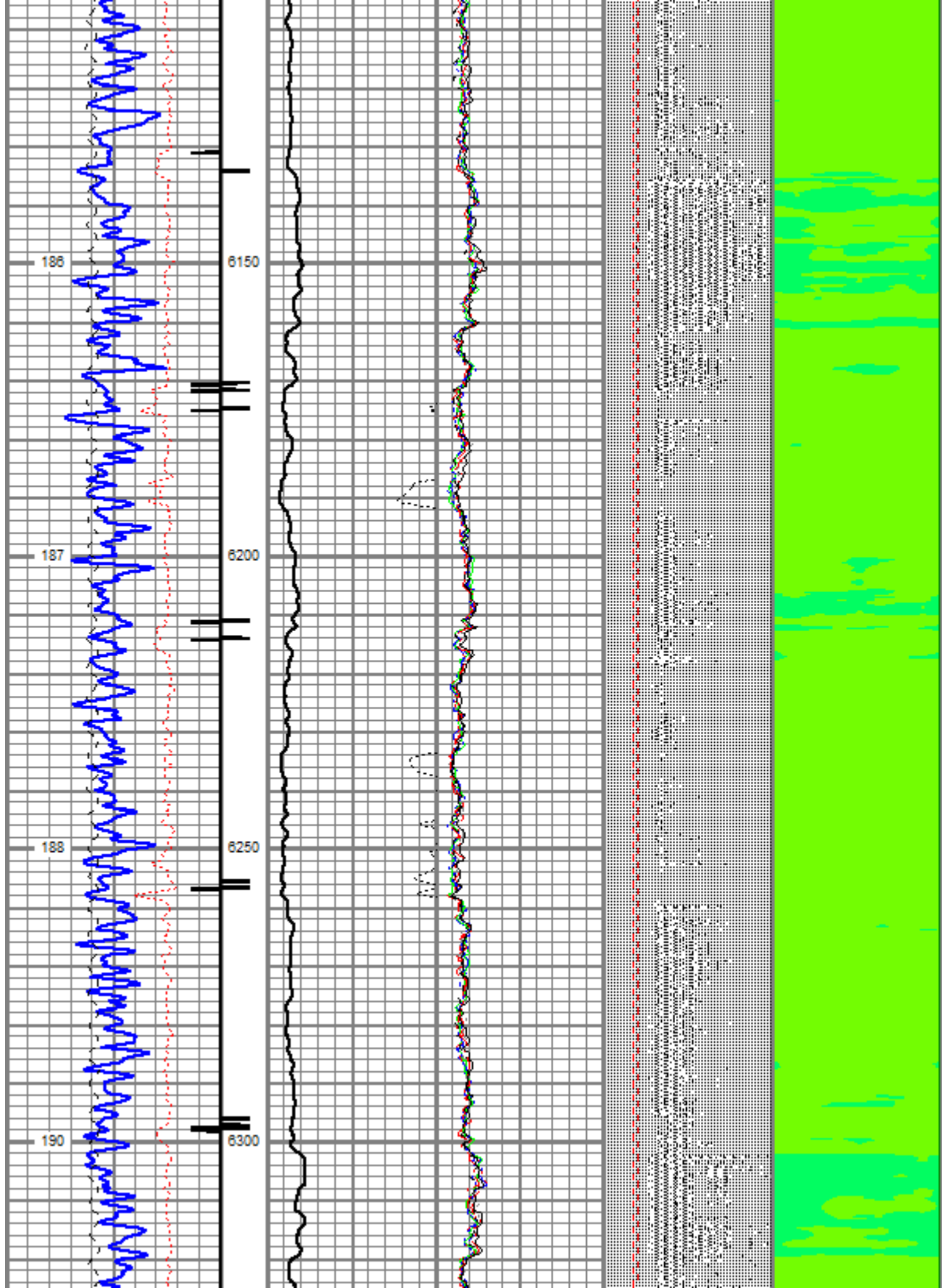


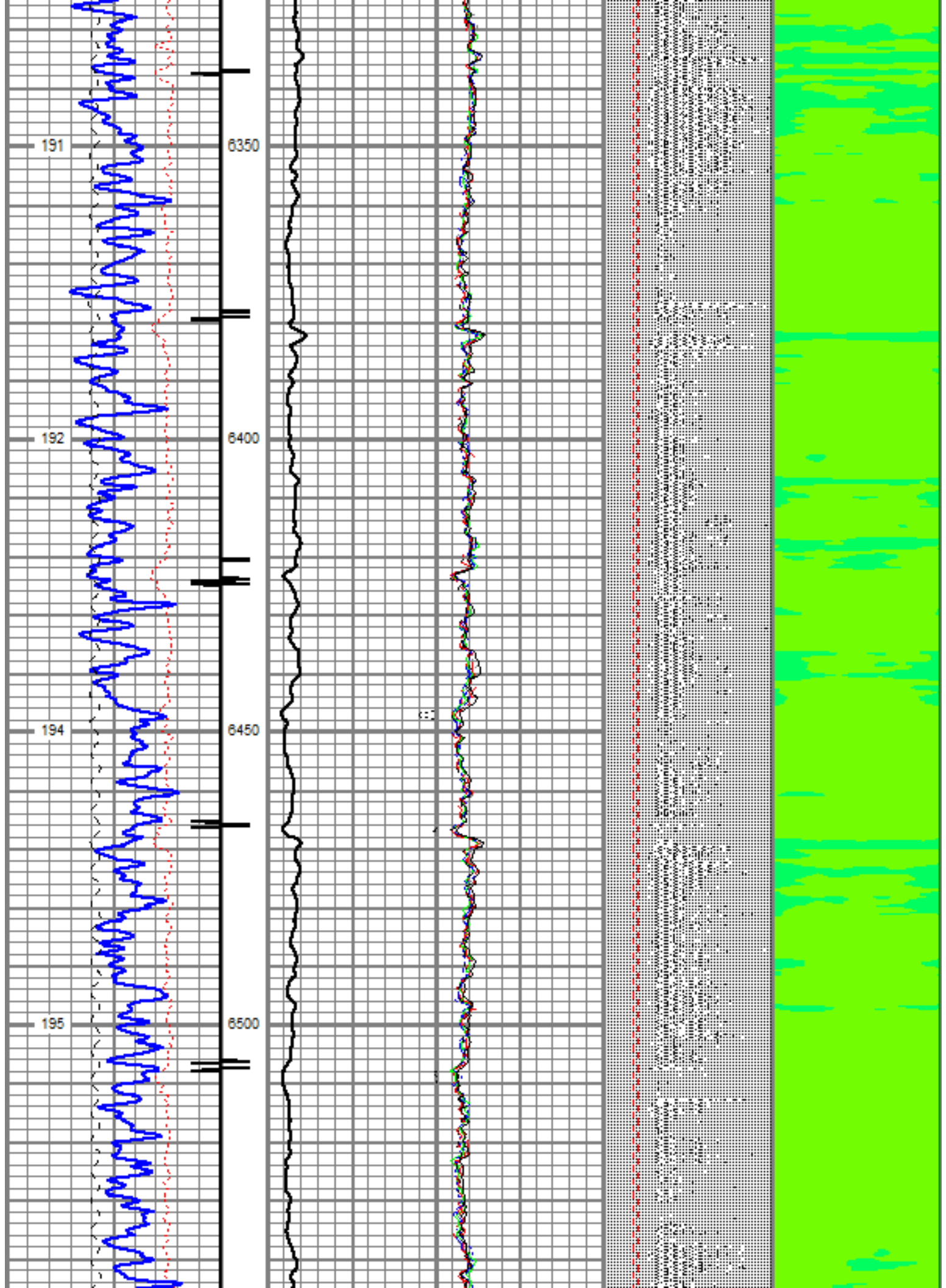


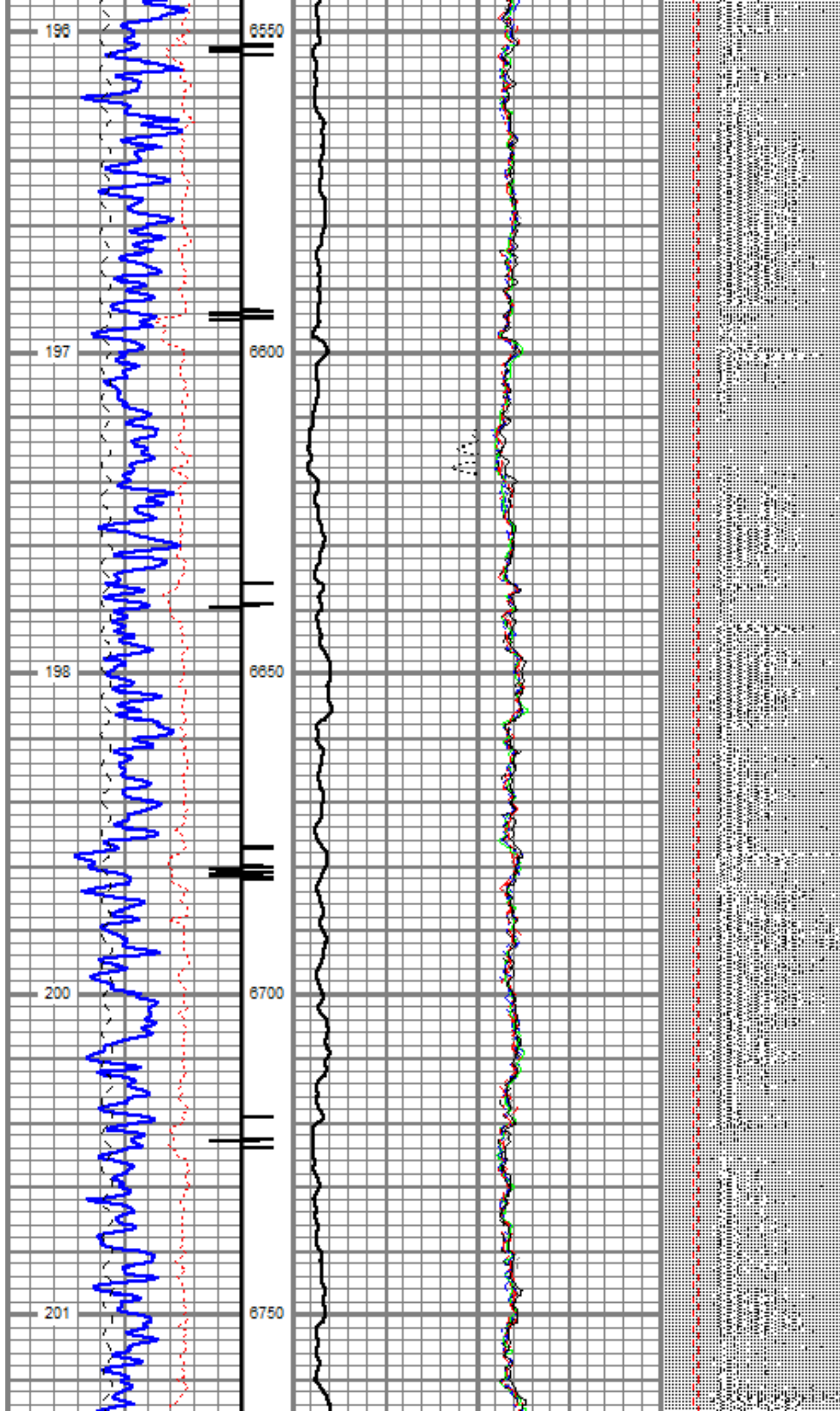


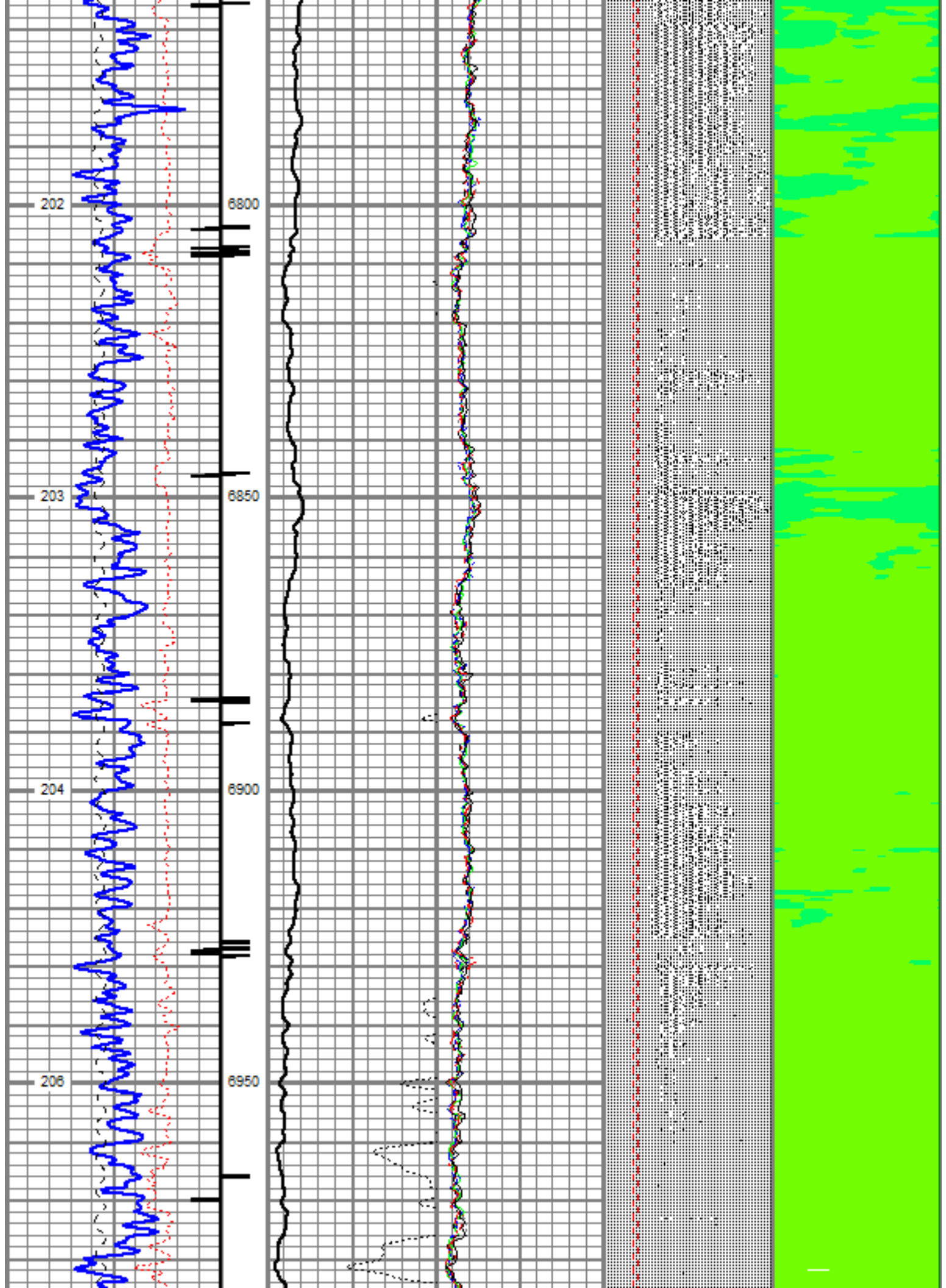


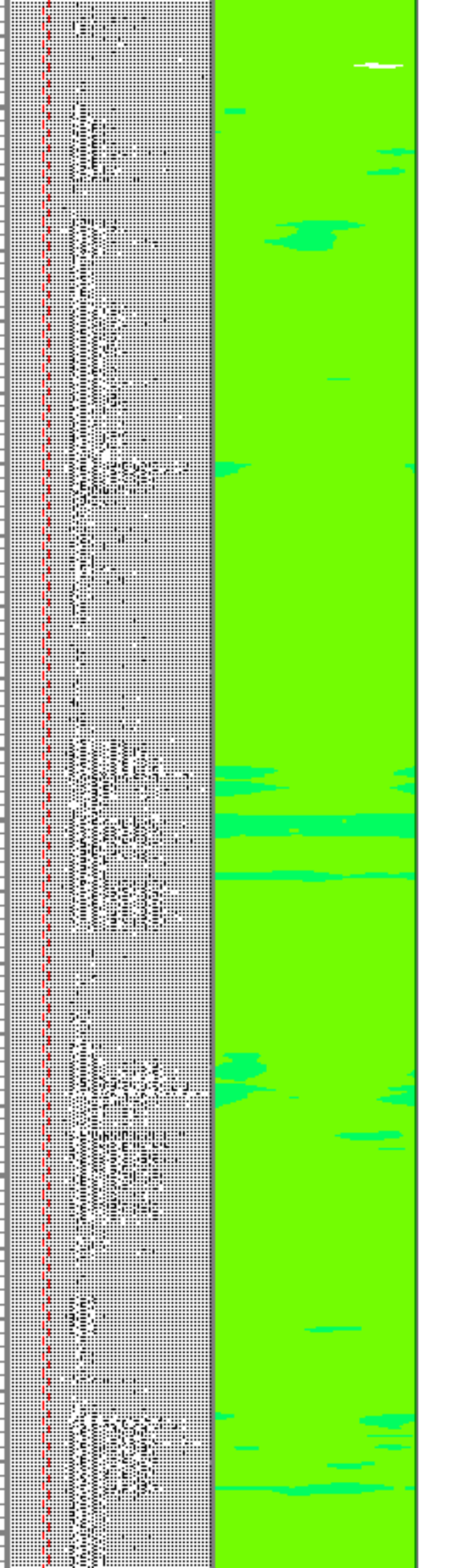
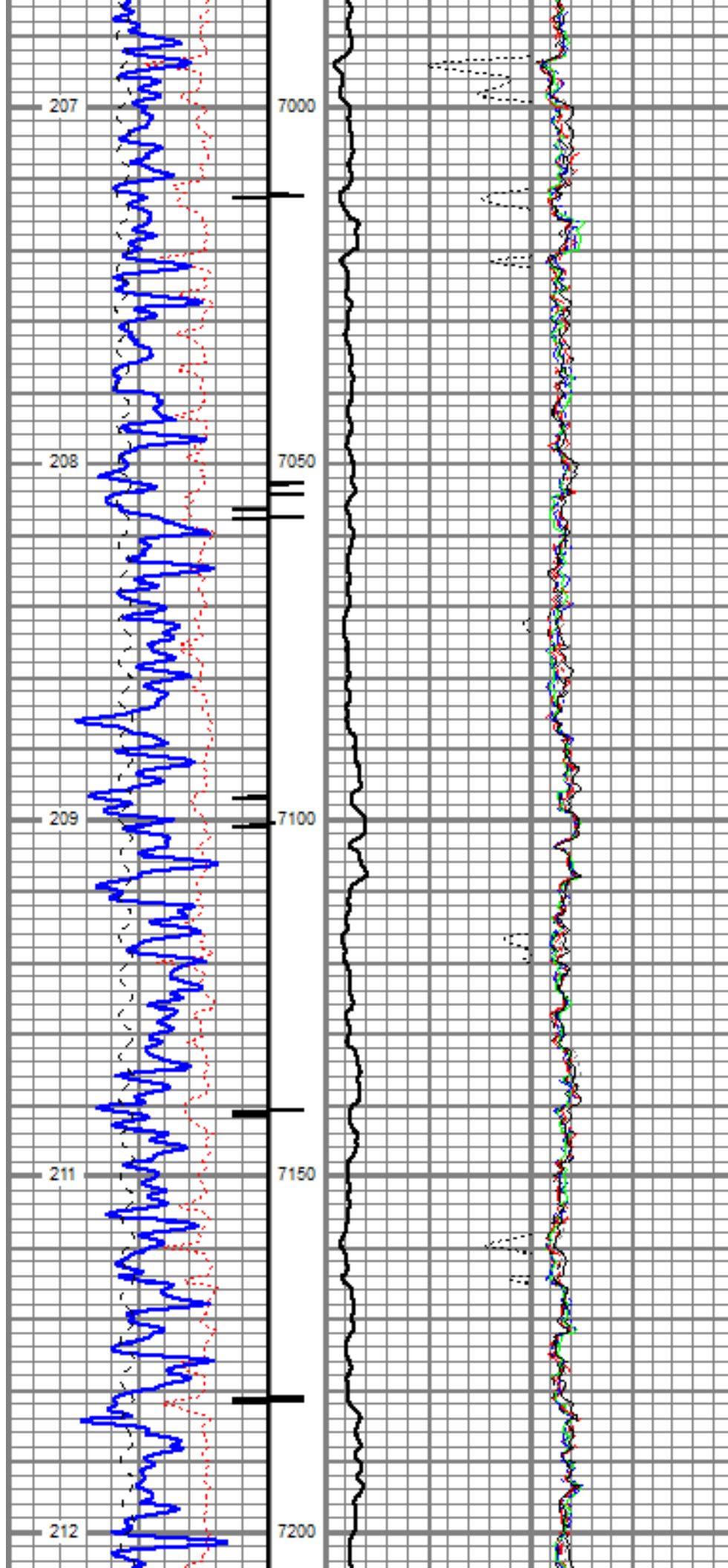


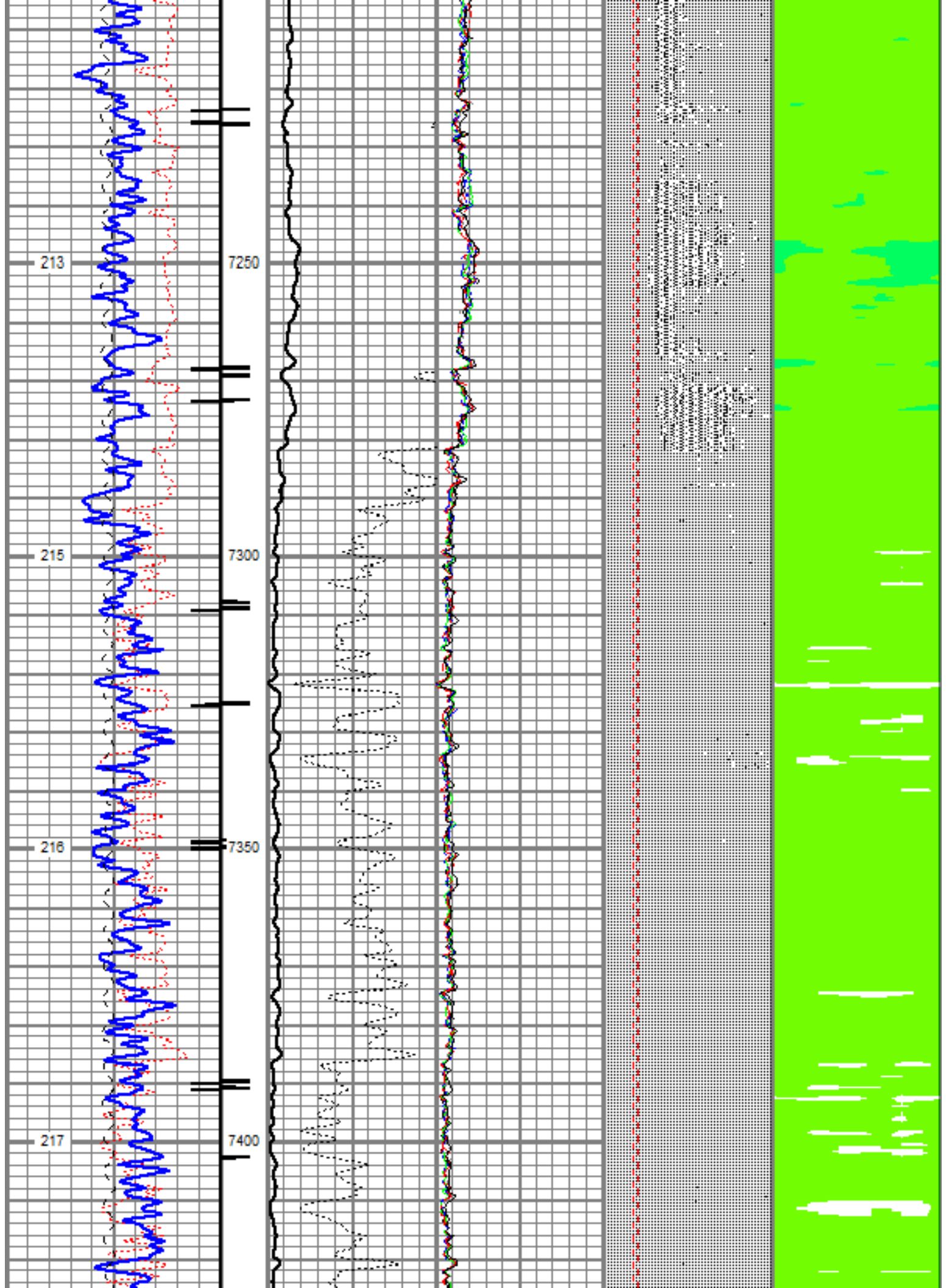


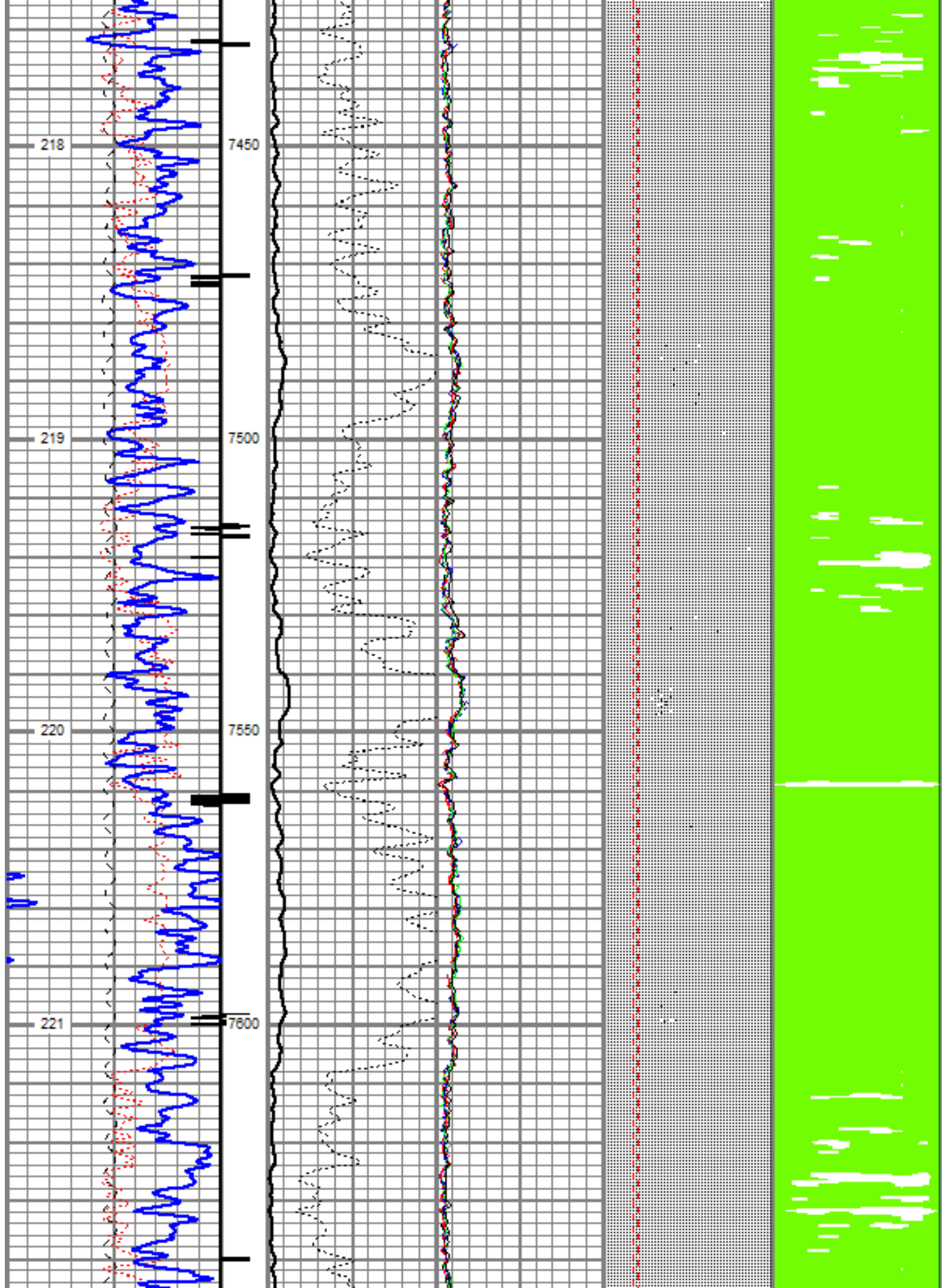




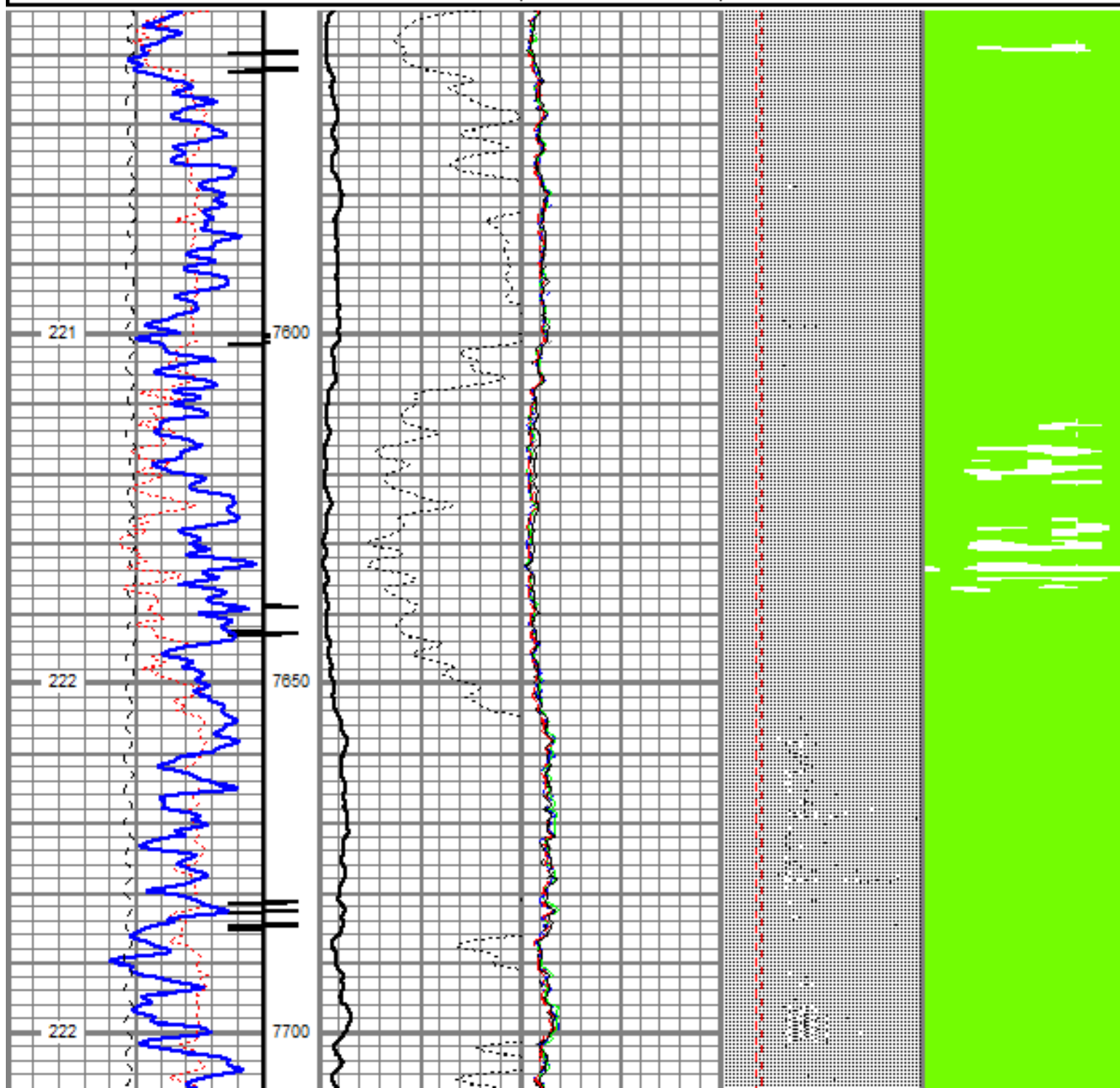
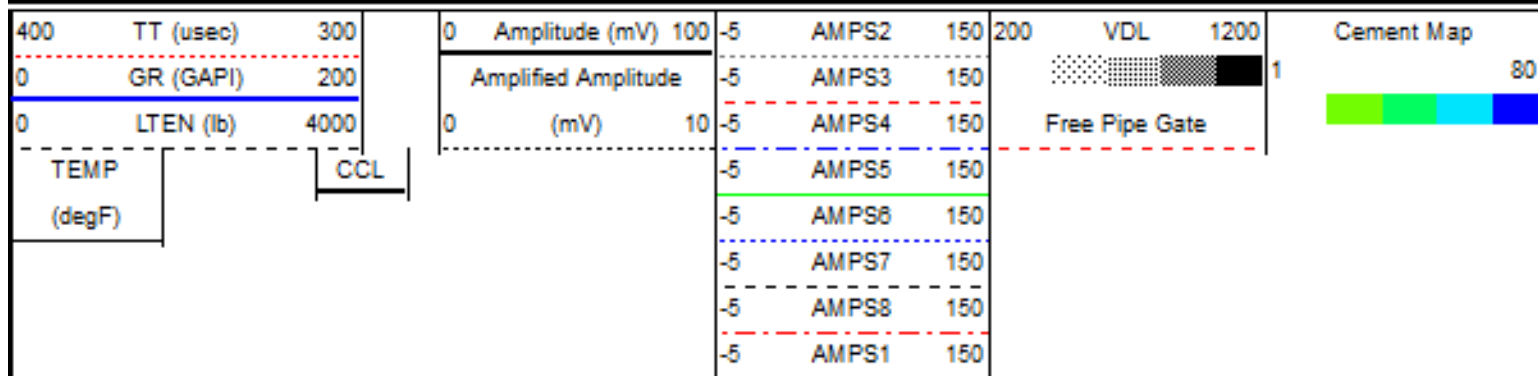








Database File: cub_creek_markham_1.db
 Dataset Pathname: pass2
 Presentation Format: rbl55
 Dataset Creation: Thu Oct 27 08:05:12 2016 by Log Std Casedhole 09081
 Charted by: Depth in Feet scaled 1:240



TDEPTH ft	BOTTEMP degF	BOREID in
0	100	7.875

Calibration Report

Database File: cub_creek_markham_1.db
 Dataset Pathname: pass3.1
 Dataset Creation: Thu Oct 27 09:25:49 2016 by Calc Std Casedhole 09061

Temperature Calibration Report

Serial Number: 0001
 Tool Model: 1.375TEMP
 Performed: Mon Mar 21 11:57:52 2016

	Reference	Reading
Low Reference:	10.00 degF	1.00 cps
High Reference:	100.00 degF	1000.00 cps
Gain:	0.10	
Offset:	0.00	
Delta Spacing	1	

Gamma Ray Calibration Report

Serial Number: 060109
 Tool Model: Probe
 Performed: Mon Jan 26 10:19:58 2009

Calibrator Value:	185.2	GAPI
Background Reading:	4.8	cps
Calibrator Reading:	200.0	cps
Sensitivity:	0.9487	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 060113_45
 Tool Model: Probe

Calibration Casing Diameter:	5.500	in
Calibration Depth:	995.175	ft

Master Calibration, performed Wed Oct 26 14:29:05 2016:




	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.303	2.000	71.921	205.778	1.743
CAL	0.001	0.882				
5'	0.001	0.292	2.000	71.921	240.245	1.762
SUM						
S1	0.001	0.320	0.000	100.000	313.725	-0.341
S2	0.001	0.308	0.000	100.000	325.803	-0.362
S3	0.001	0.311	0.000	100.000	322.901	-0.339
S4	0.001	0.316	0.000	100.000	317.433	-0.314
S5	0.001	0.302	0.000	100.000	332.279	-0.300
S6	0.001	0.287	0.000	100.000	350.175	-0.329
S7	0.001	0.282	0.000	100.000	355.263	-0.360
S8	0.001	0.287	0.000	100.000	350.041	-0.385


Internal Reference Calibration, performed Wed Dec 31 18:00:00 1989:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.882	1.000	0.000

Air Zero Calibration, performed Wed Oct 26 07:57:51 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Standard Standard Cable Head	1.00	1.69	1.00
			RBT-Probe (060113_45) Probe 2.75" RadII Bond Tool	9.39	2.75	90.00
WVF3FT	9.44					
WVFCAL	9.44					
WVFS1	9.44					
WVFS2	9.44					
WVFS3	9.44					
WVFS4	9.44					
WVFS5	9.44					
WVFS6	9.44					
WVFS7	9.44					
WVFS8	9.44					
WVF5FT	8.44					

CCL	4.75					
GR	2.25		GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00
TEMP	0.08		TEMP-1.375TEMP (0001) Temperature Tool	1.25	1.38	30.00
Dataset: cub_creek_markham_1.db: field/well/run1/pass3.1 Total Length: 15.64 ft Total Weight: 151.00 lb O.D. 2.75 in						



Company Cub Creek Energy
Well Marham 1
Field Wattenberg
County Weld
State Colorado

Country USA