



Radial Cement Bond  
w/Variable Density,  
Gamma Ray, CCL, Temp Log  
Final Print 0 PSI

Company	Great Western Oil & Gas	Company	Great Western Oil & Gas
Well	Schneider HD 11-102HNX	Well	Schneider HD 11-102HNX
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-46417	Other Services
SEC 7 TWP 4N RGE 66W		NWSW	Gauge Ring
Permanent Datum	GL	Elevation	4735'
Log Measured From	KB		
Drilling Measured From	KB		
Date		Nov 30 2019	
Run Number	One		
Depth Driller	17678'		
Depth Logger	7528'		
Bottom Logged Interval	7526'		
Top Log Interval	Surface		
Open Hole Size	8 1/2"		
Type Fluid	Water		
Density / Viscosity			
Max. Recorded Temp.	242 Deg F		
Estimated Cement Top			
Time Well Ready	16:00		
Time Logger on Bottom	16:30		
Equipment Number	60		
Location	Plattville, CO		
Recorded By	S. Cornett		
Witnessed By	M. Pettyjohn		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
			From
			To
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			
Production String	5 1/2"	17#	Surface
Liner			17678'

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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 Correlated to Short Joint at 6996' - 7006'

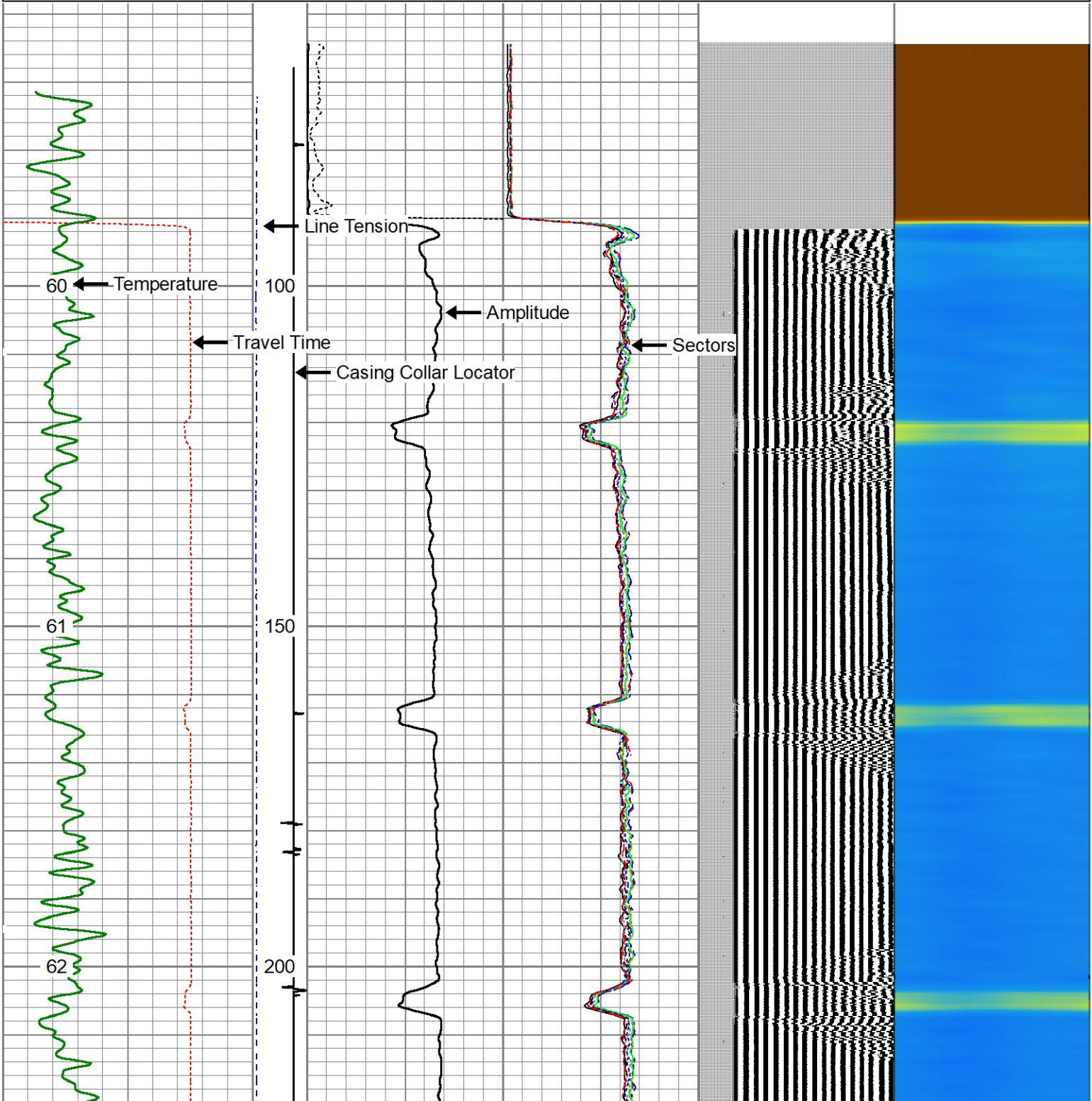
Thank you for using KLX Energy Services



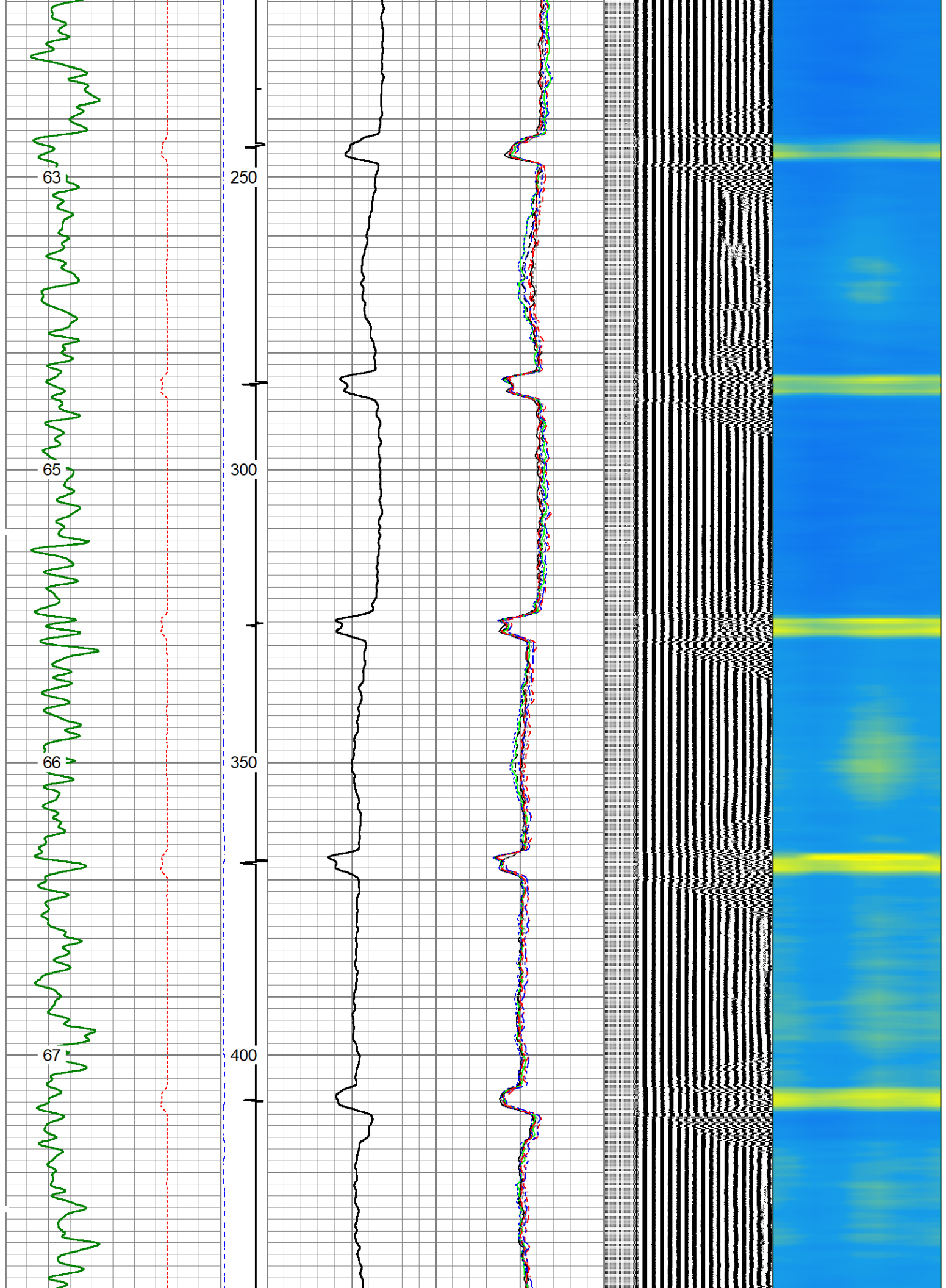
Main Pass

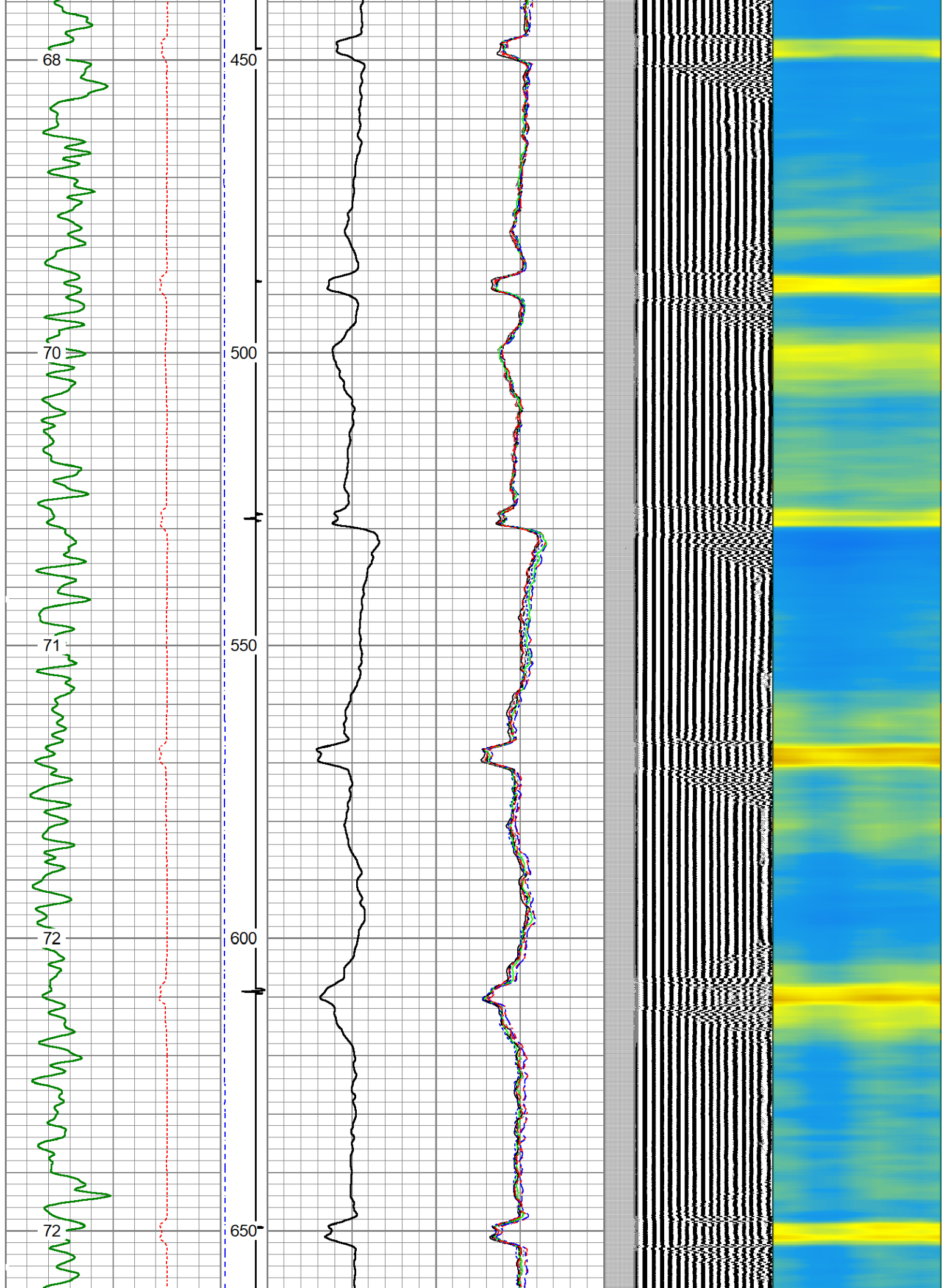
0 PSI 5"=100'

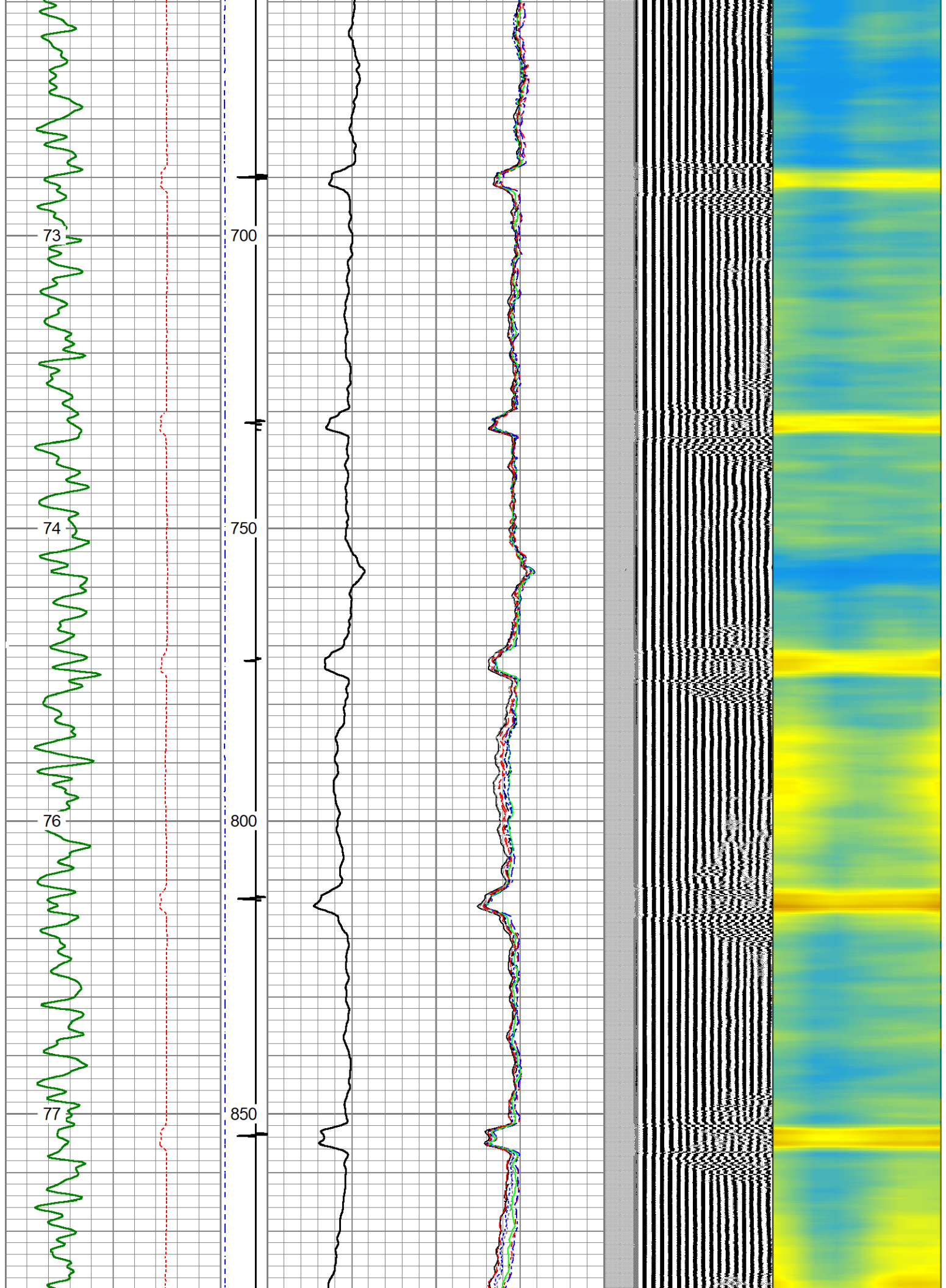
Database File	schneider_hd_11_102hnx_rcbl.db									
Dataset Pathname	pass13.1									
Presentation Format	scbl03									
Dataset Creation	Sat Nov 30 18:12:33 2019									
Charted by	Depth in Feet scaled 1:240									
420	Travel Time (usec)	220	CCL	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density
0	Gamma Ray (GAPI)	150	3 -1		Amplified Amplitude		-5	Sector 2	150	200 (usec) 1200
Temp			LTEN	0	(mV)	10	-5	Sector 3	150	
(degF)			(lb)				-5	Sector 4	150	
			(3000				-5	Sector 5	150	
							-5	Sector 6	150	
							-5	Sector 7	150	
							-5	Sector 8	150	



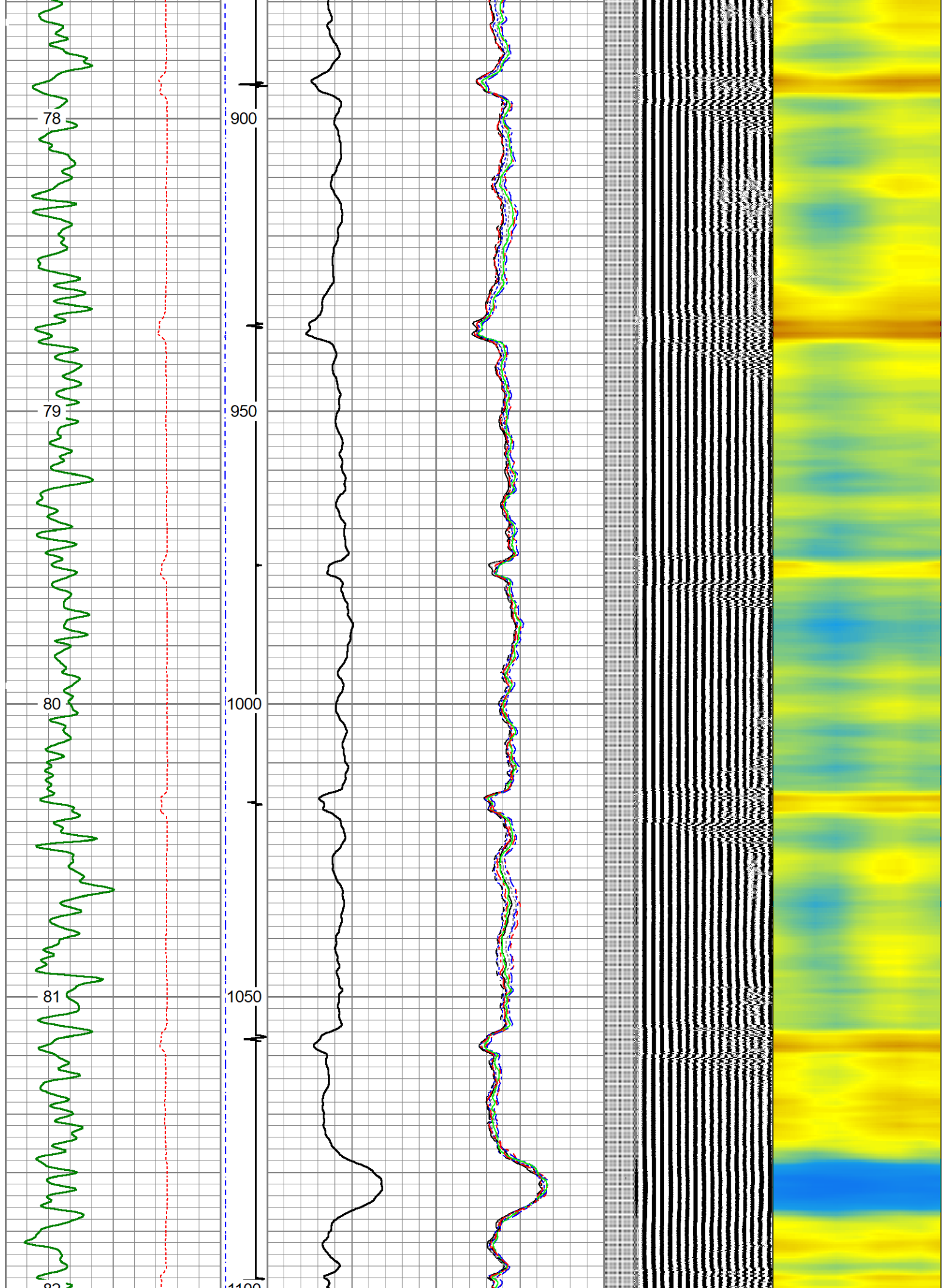


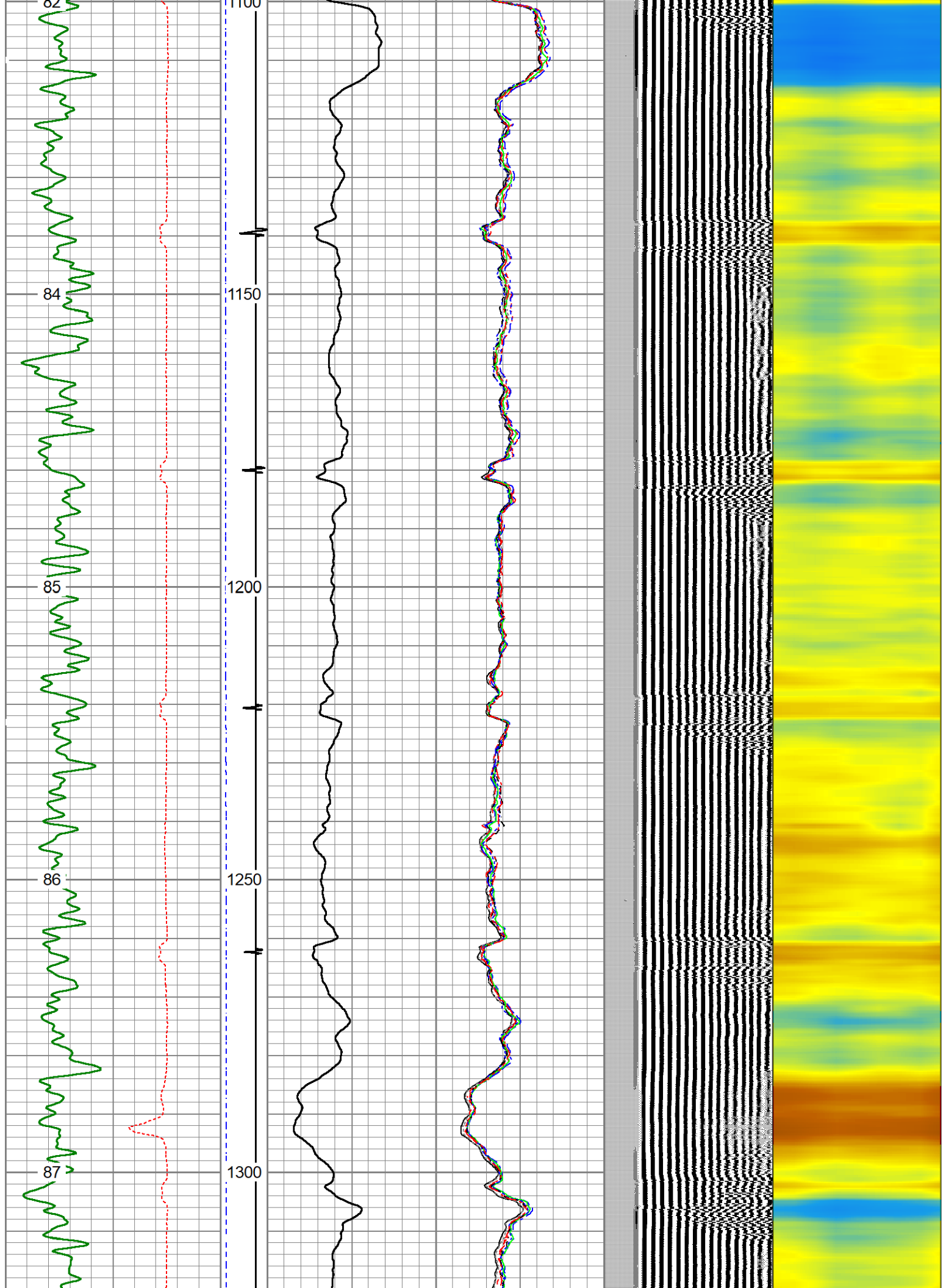


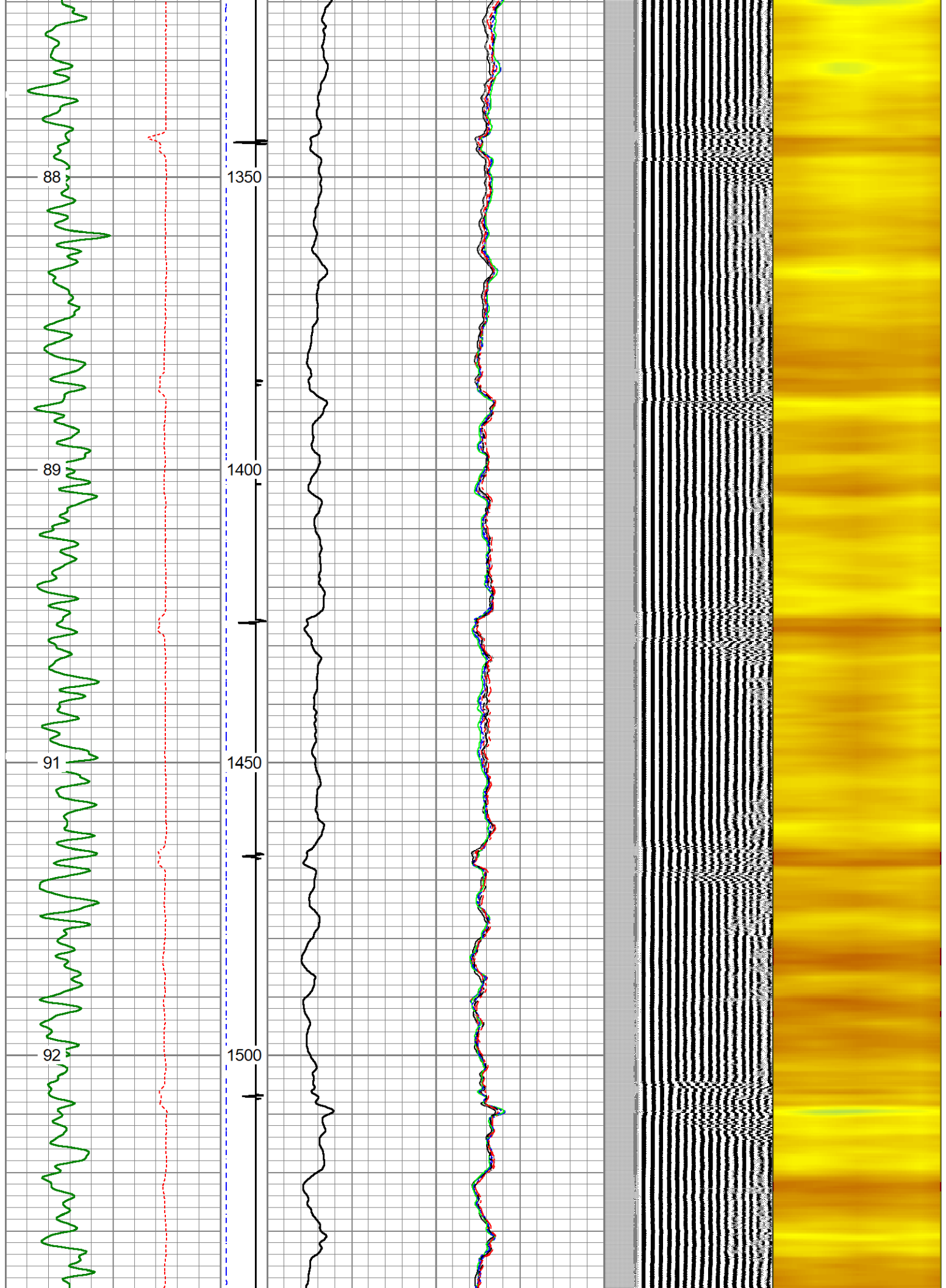




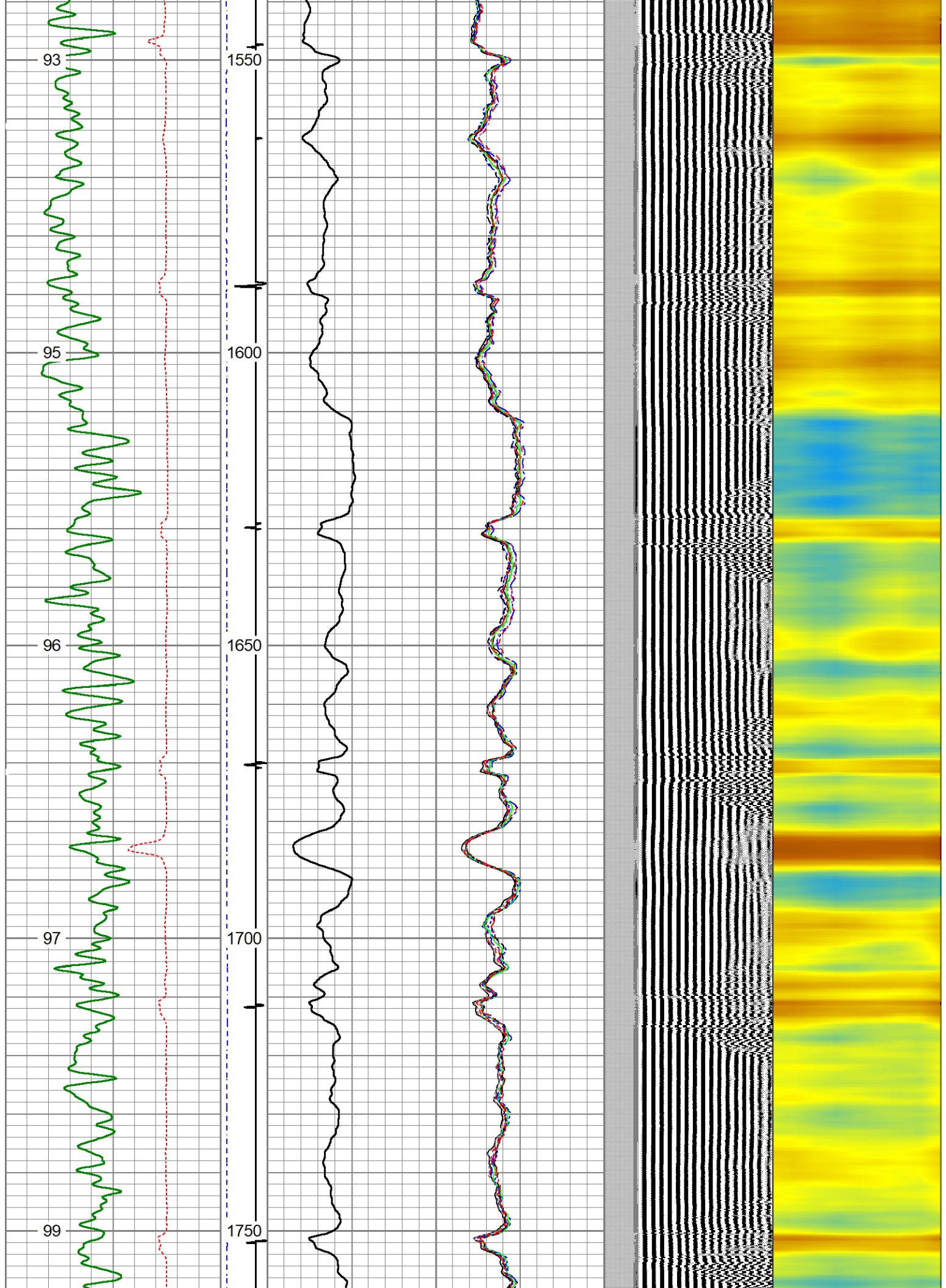


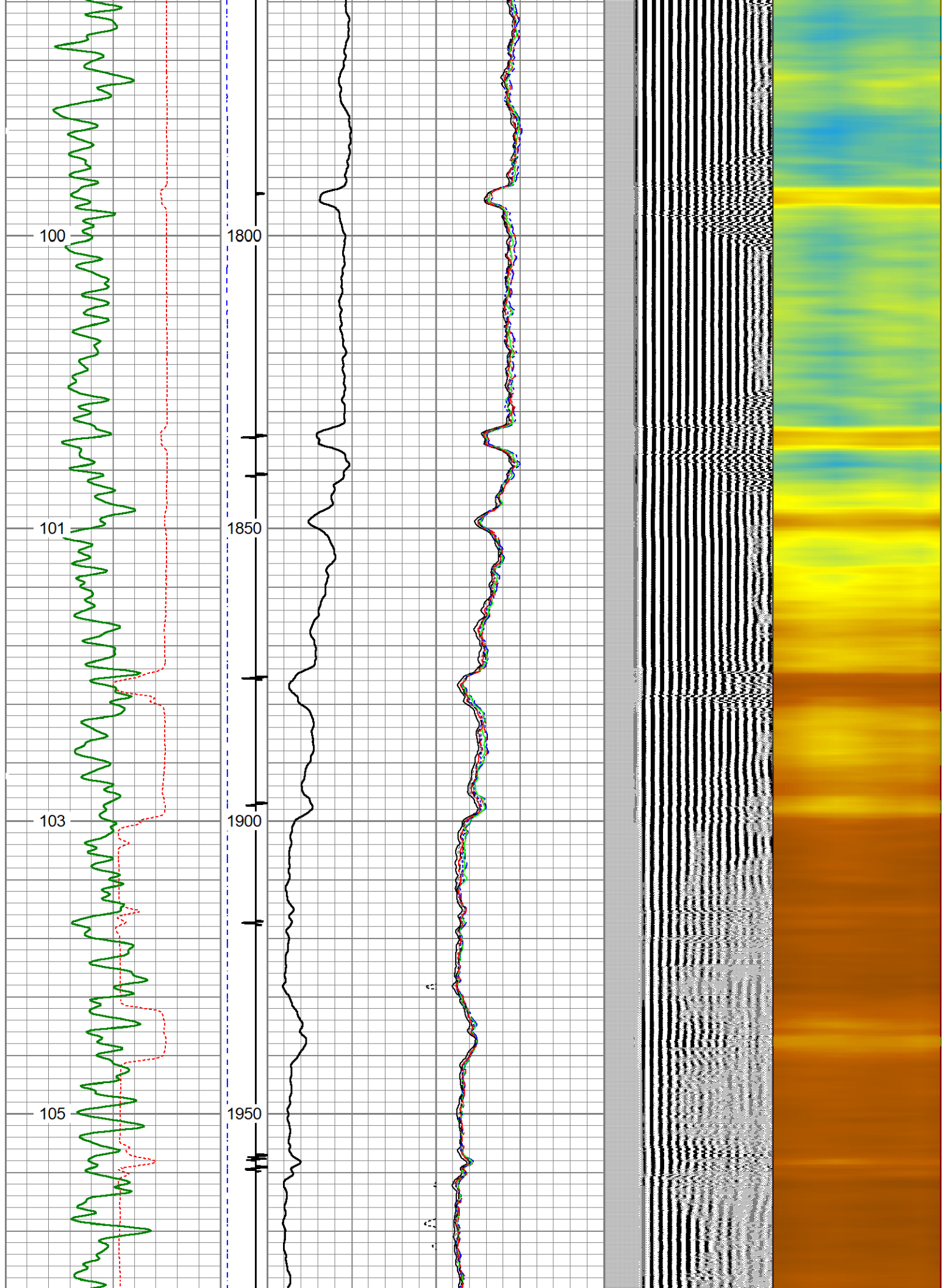


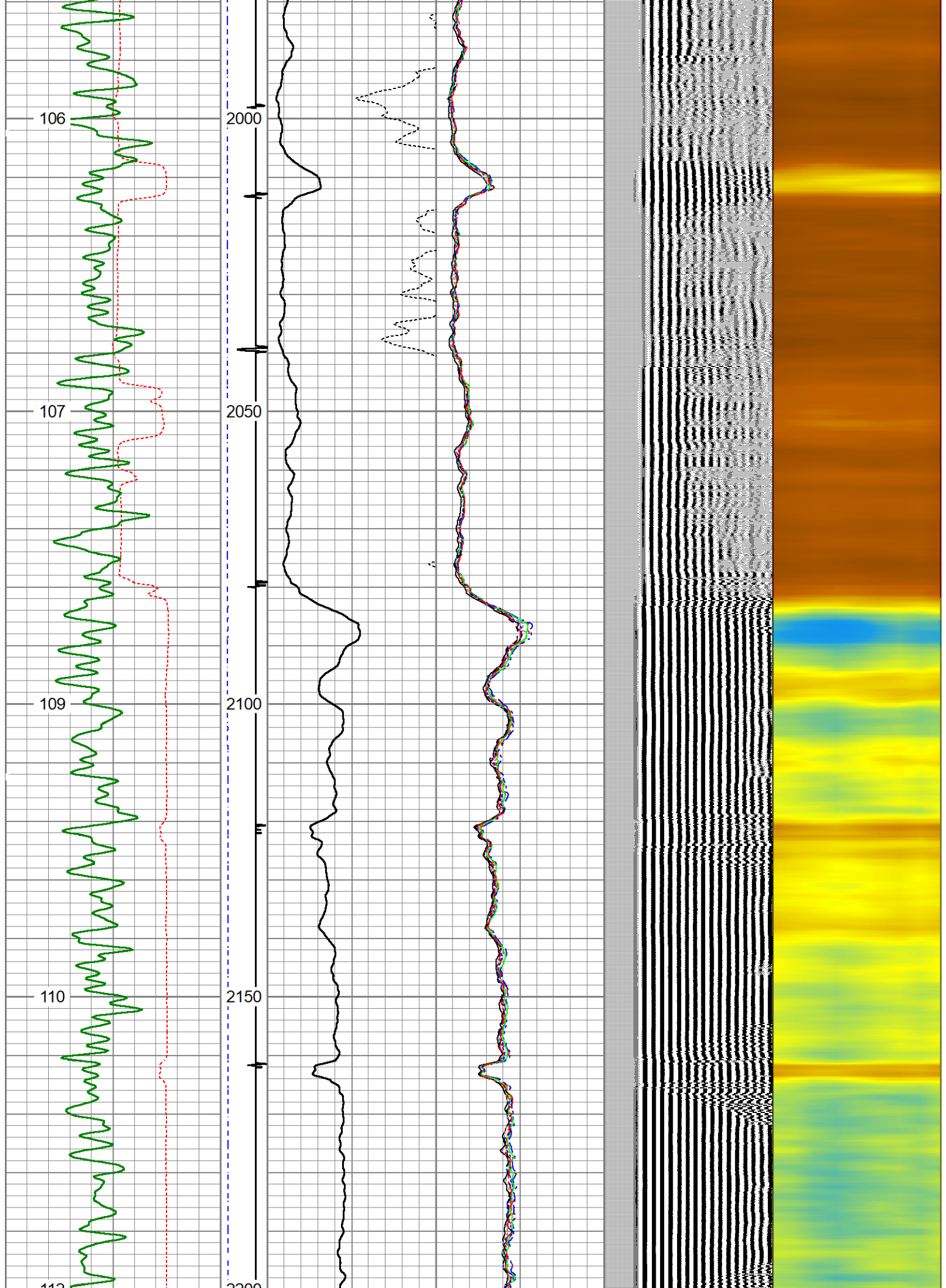




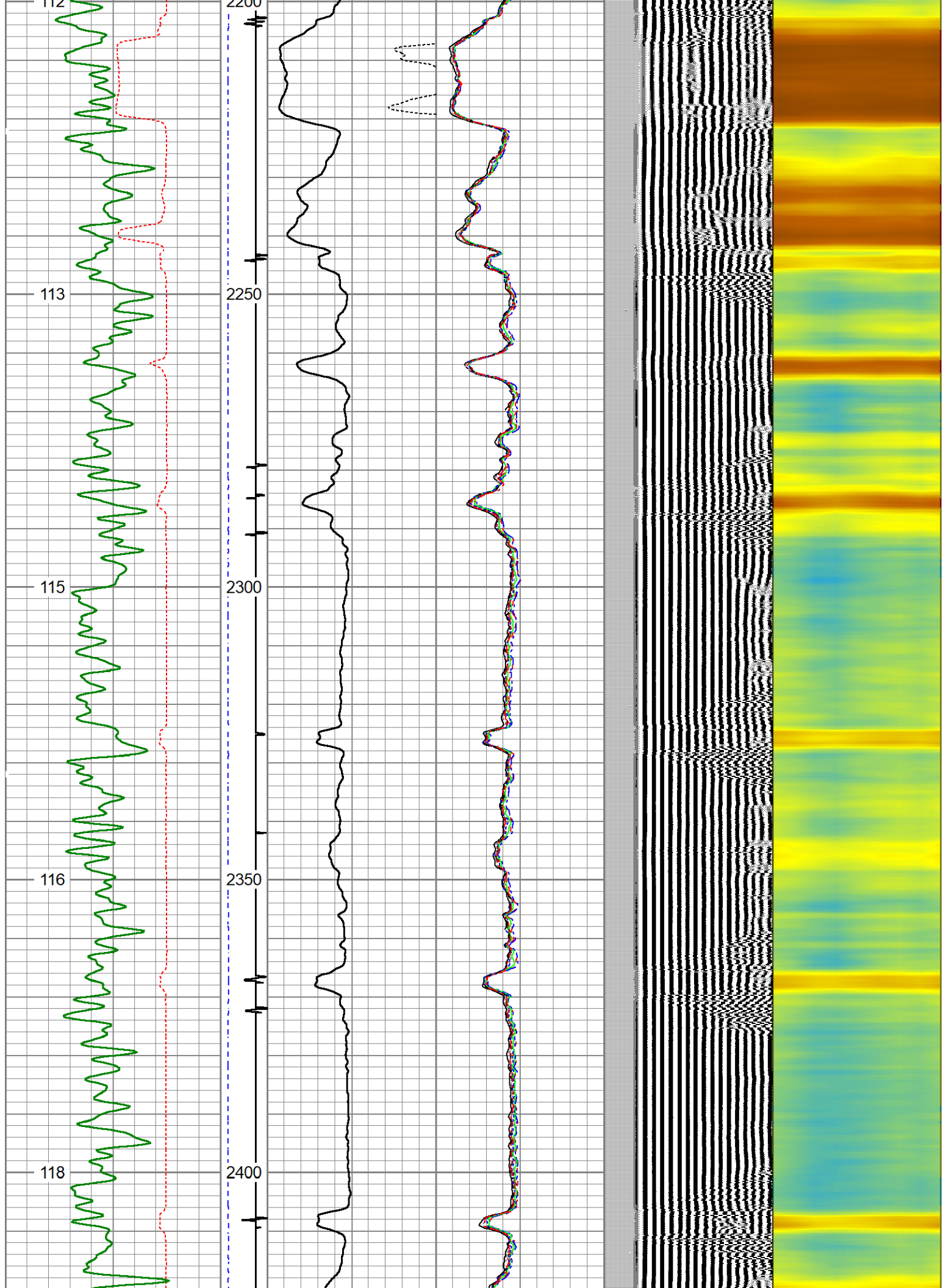


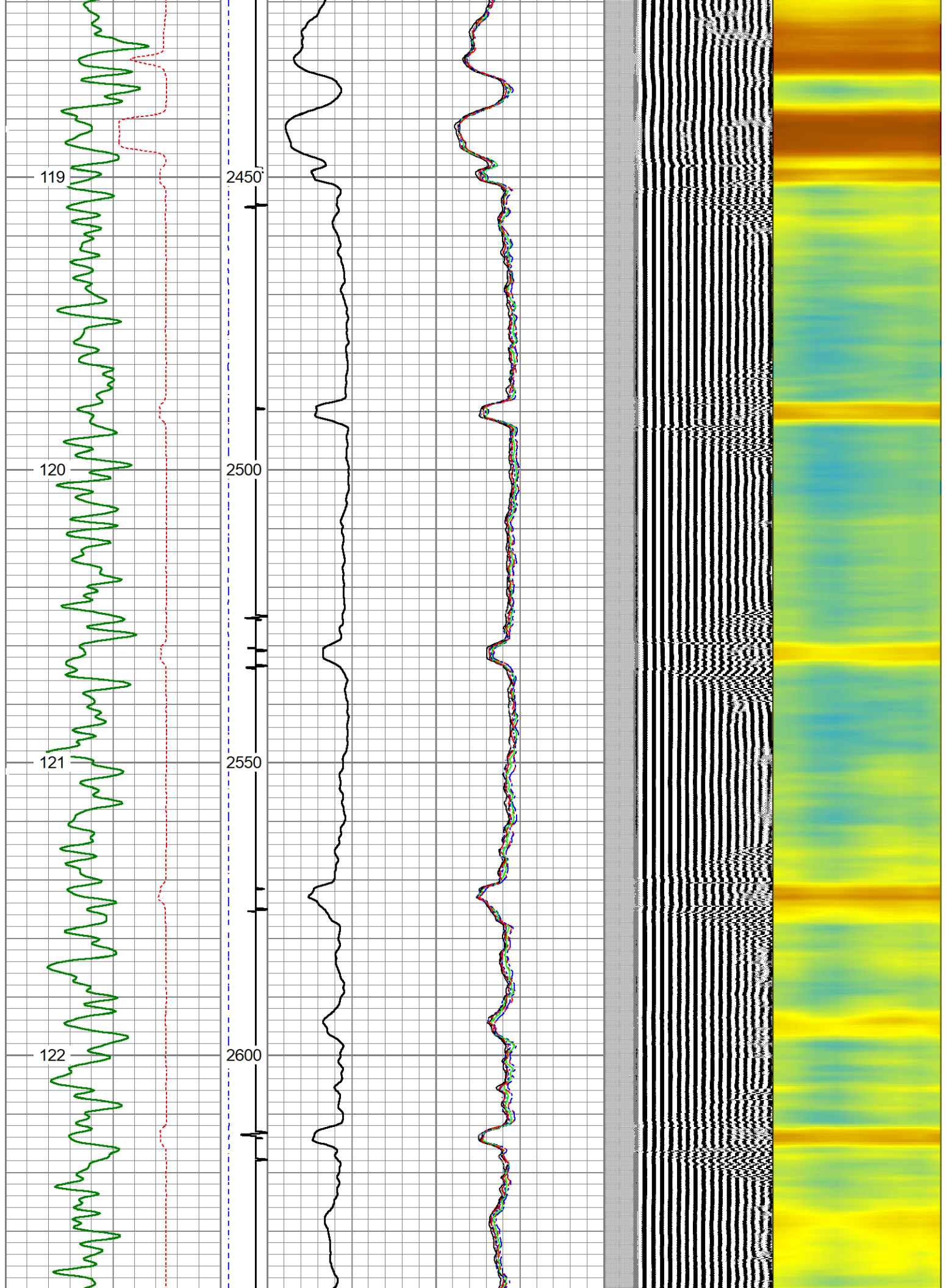


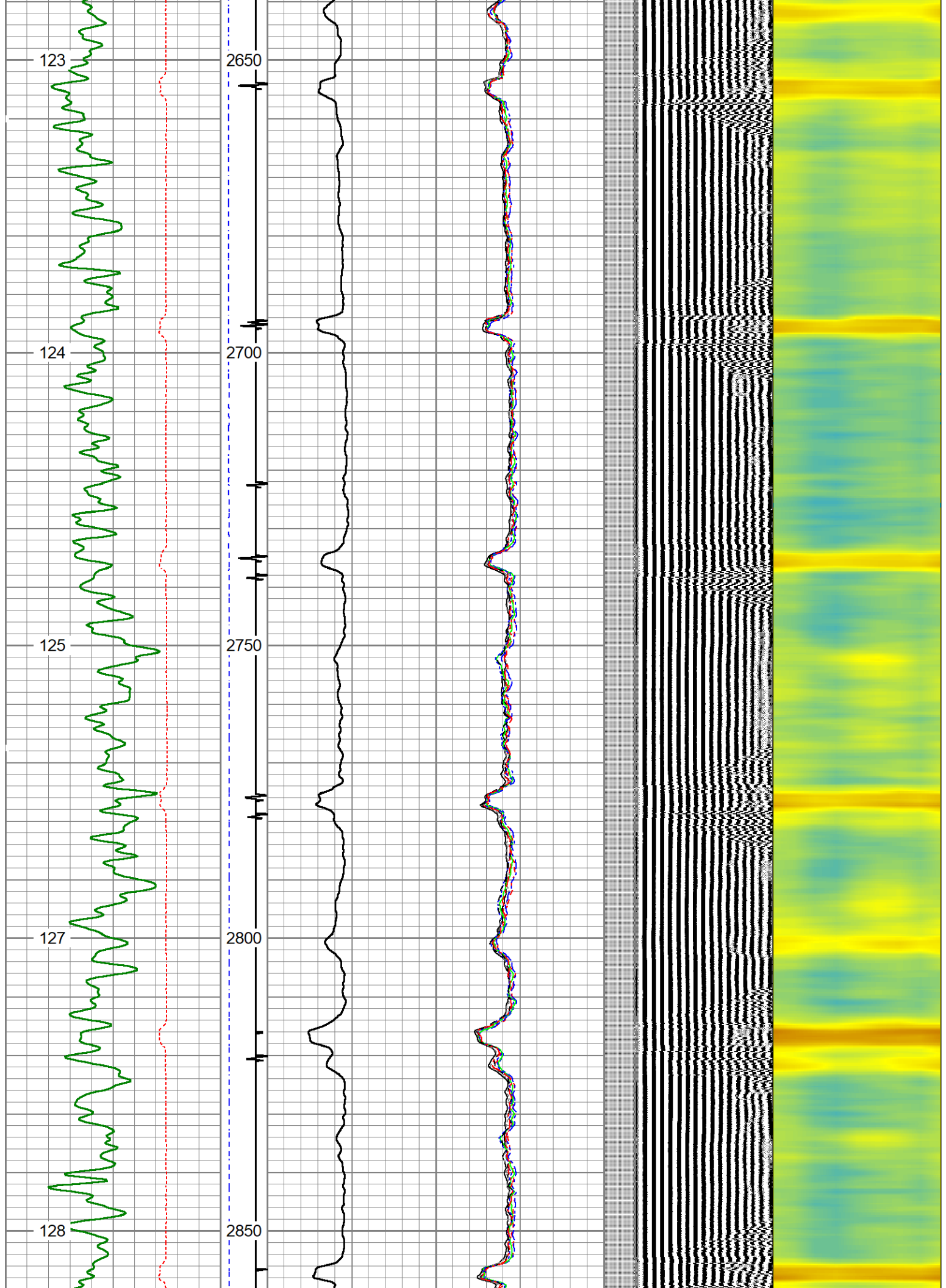




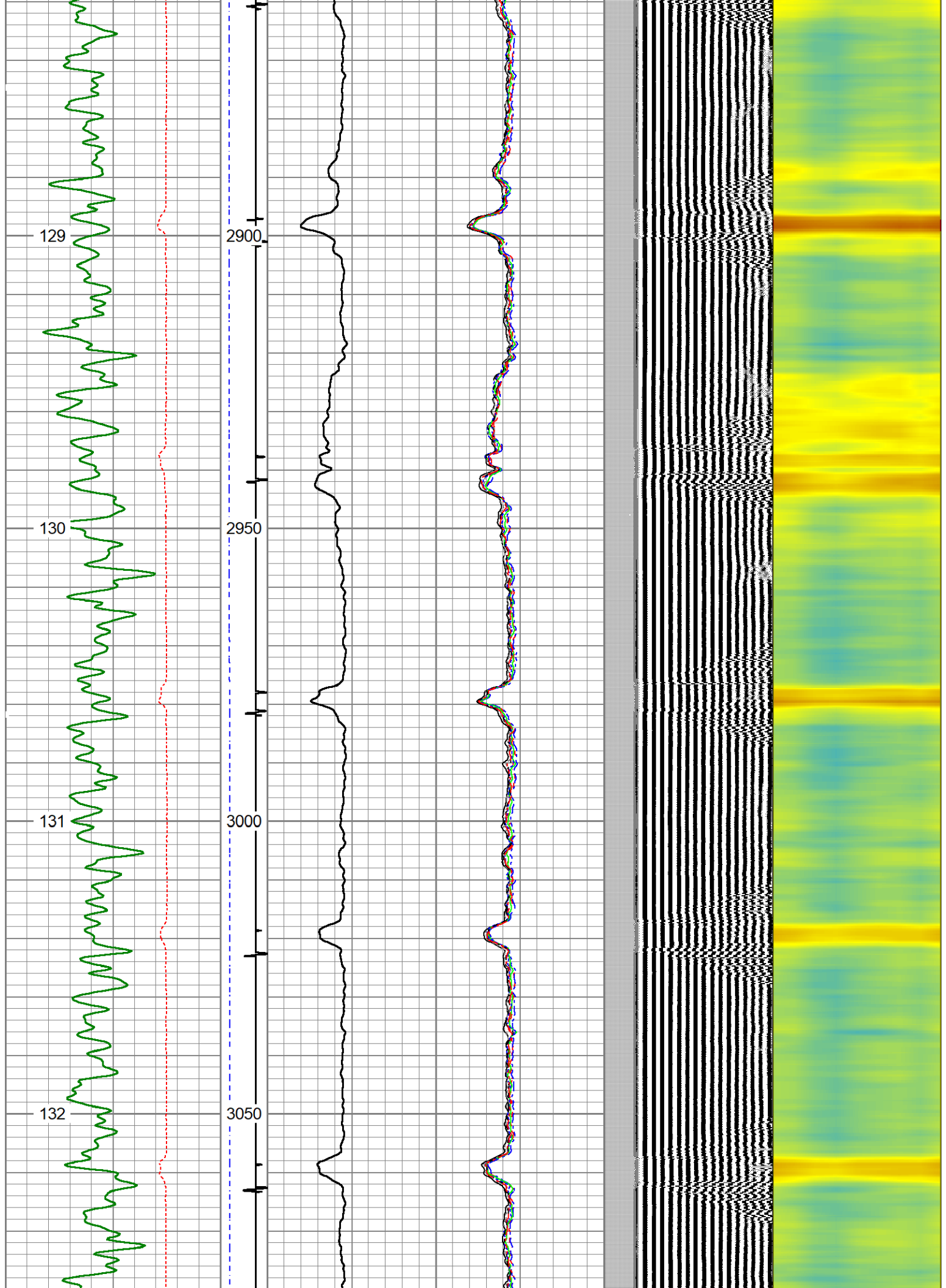


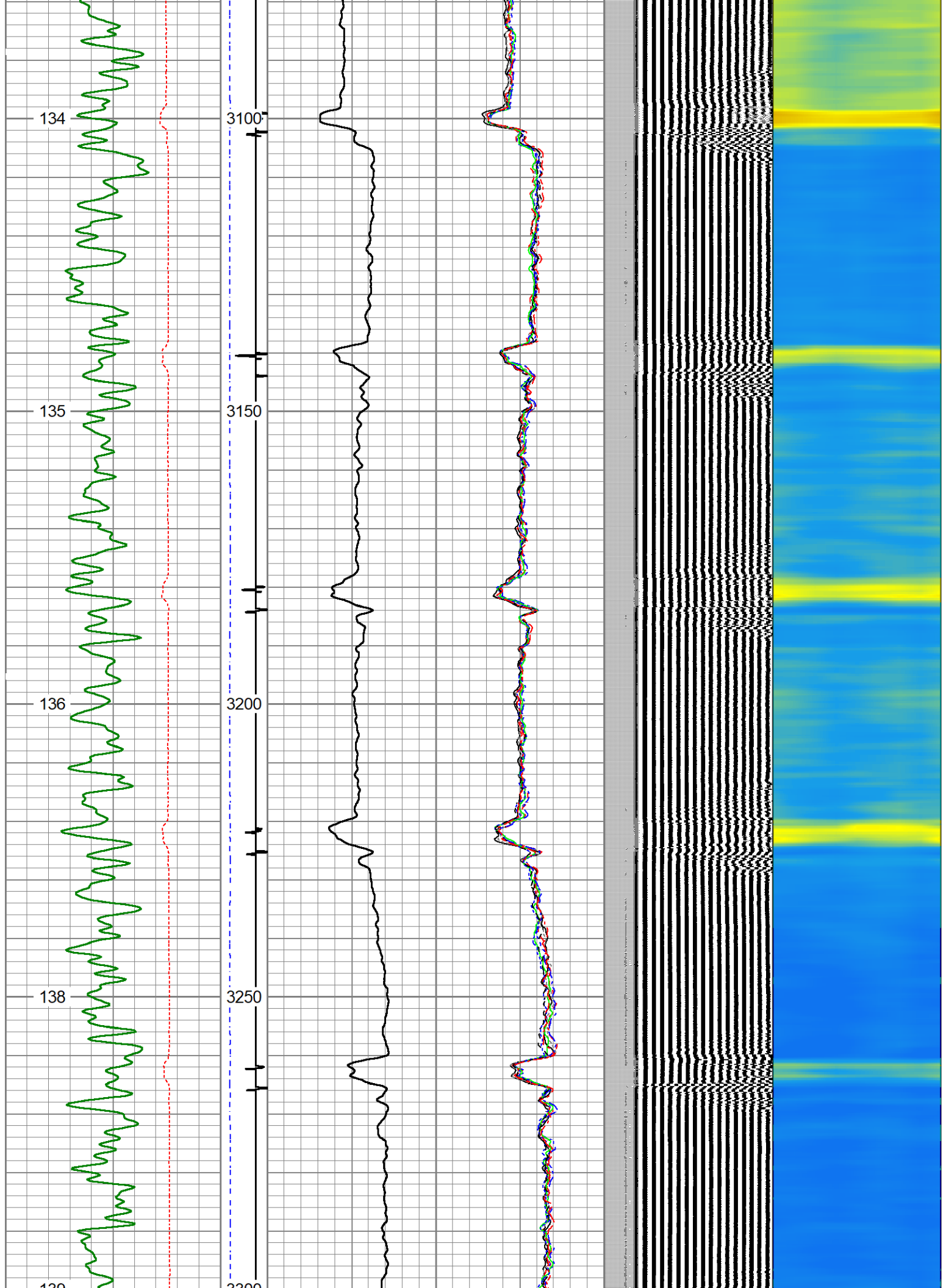


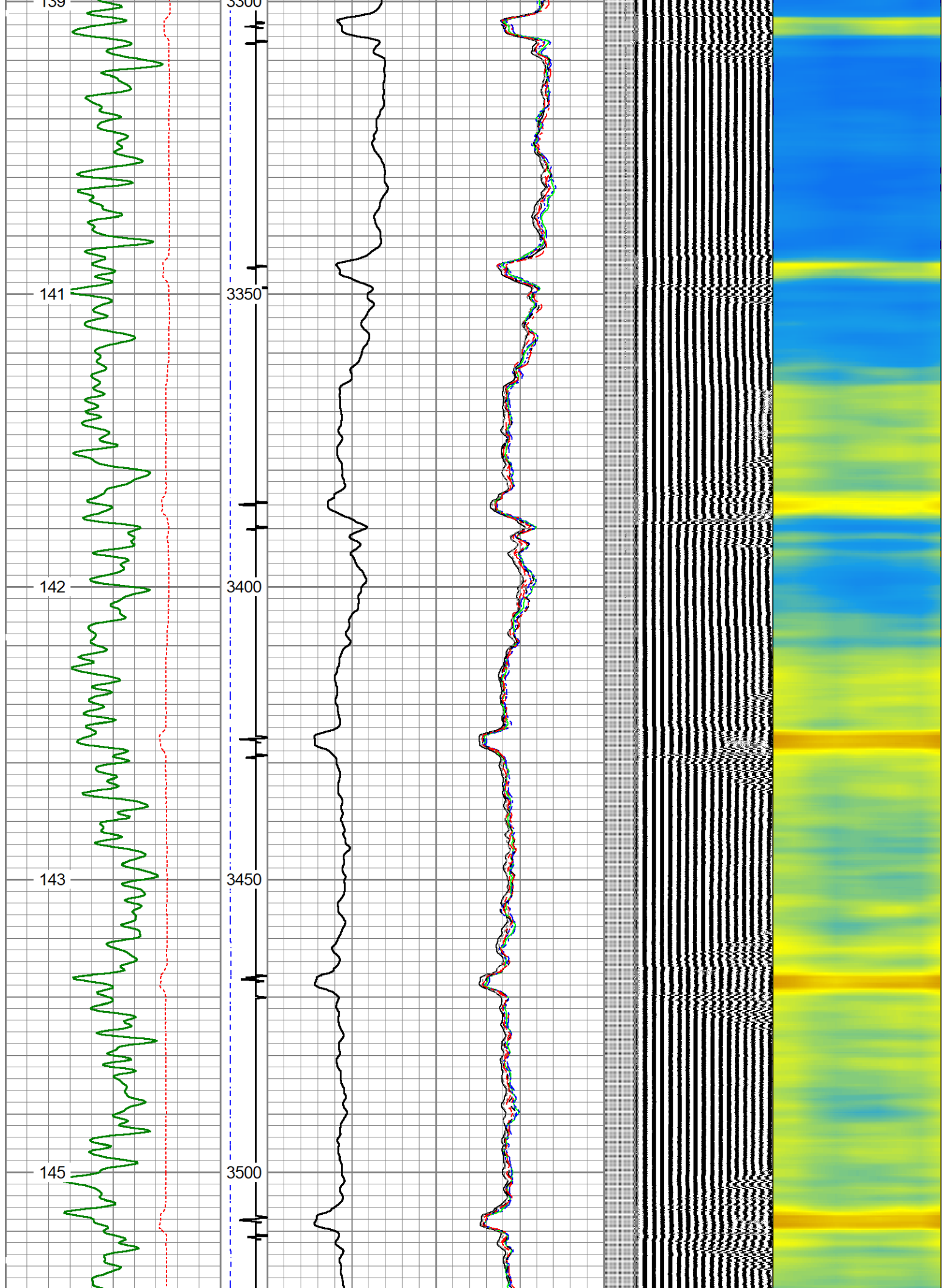




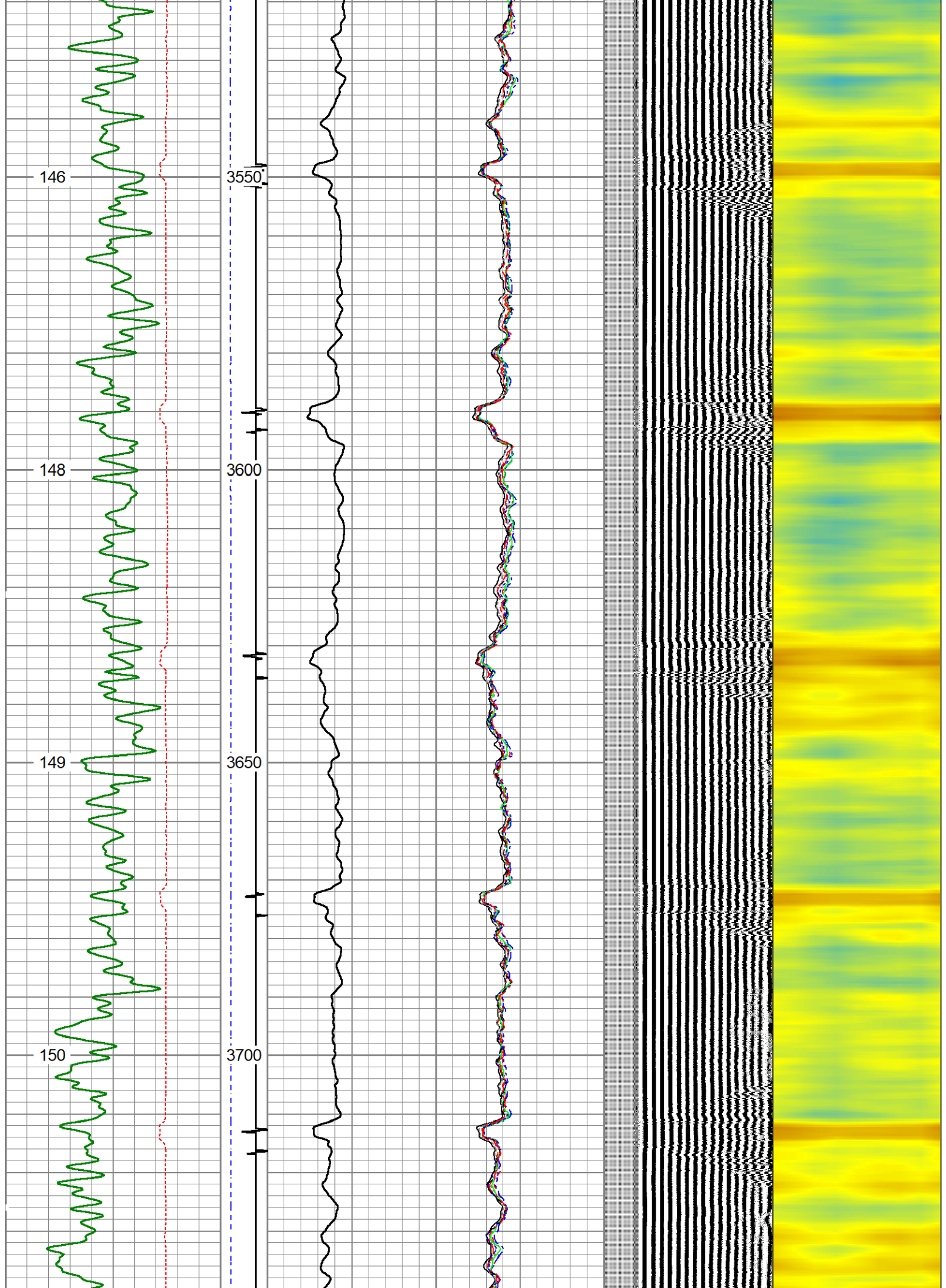


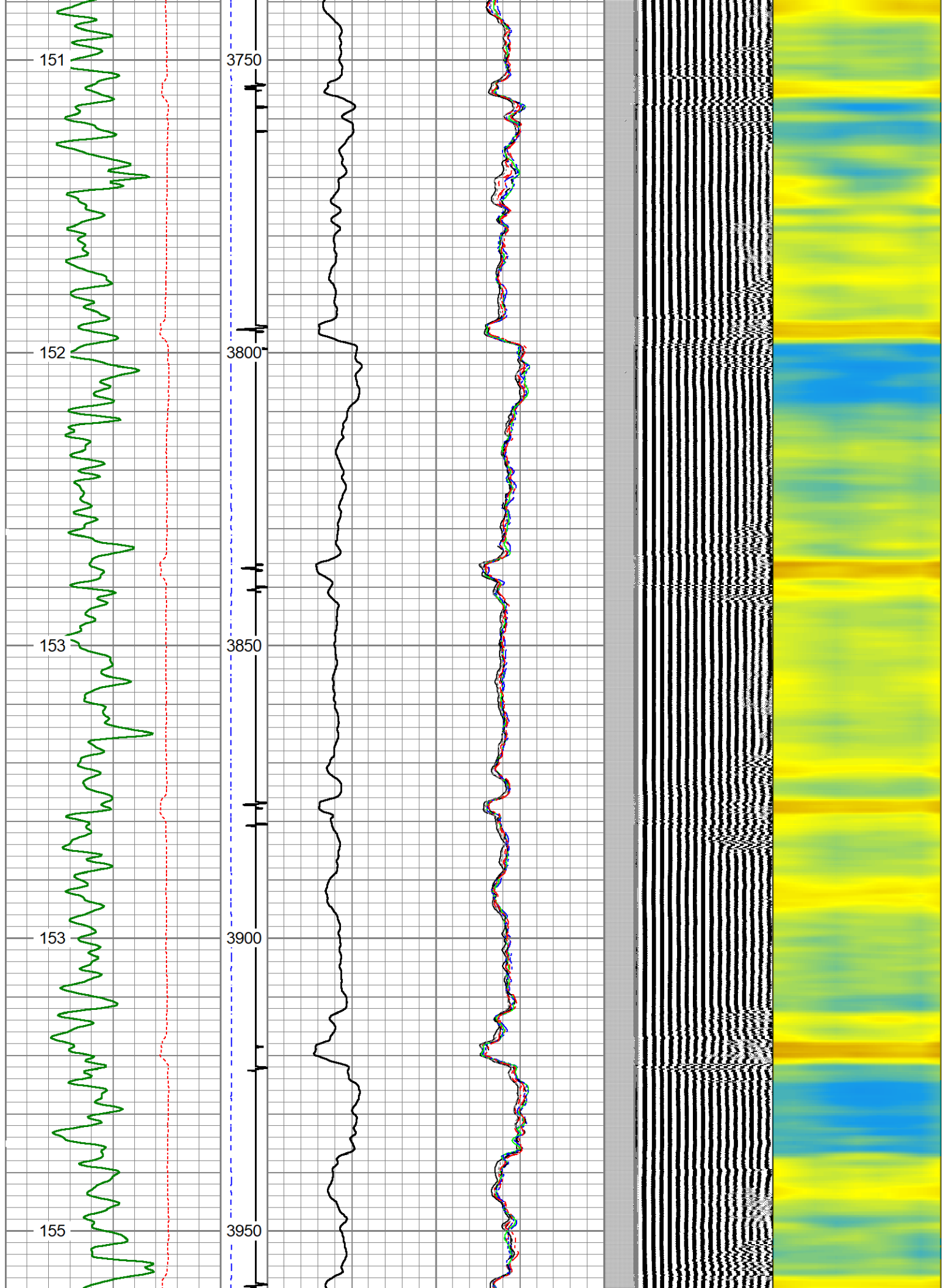


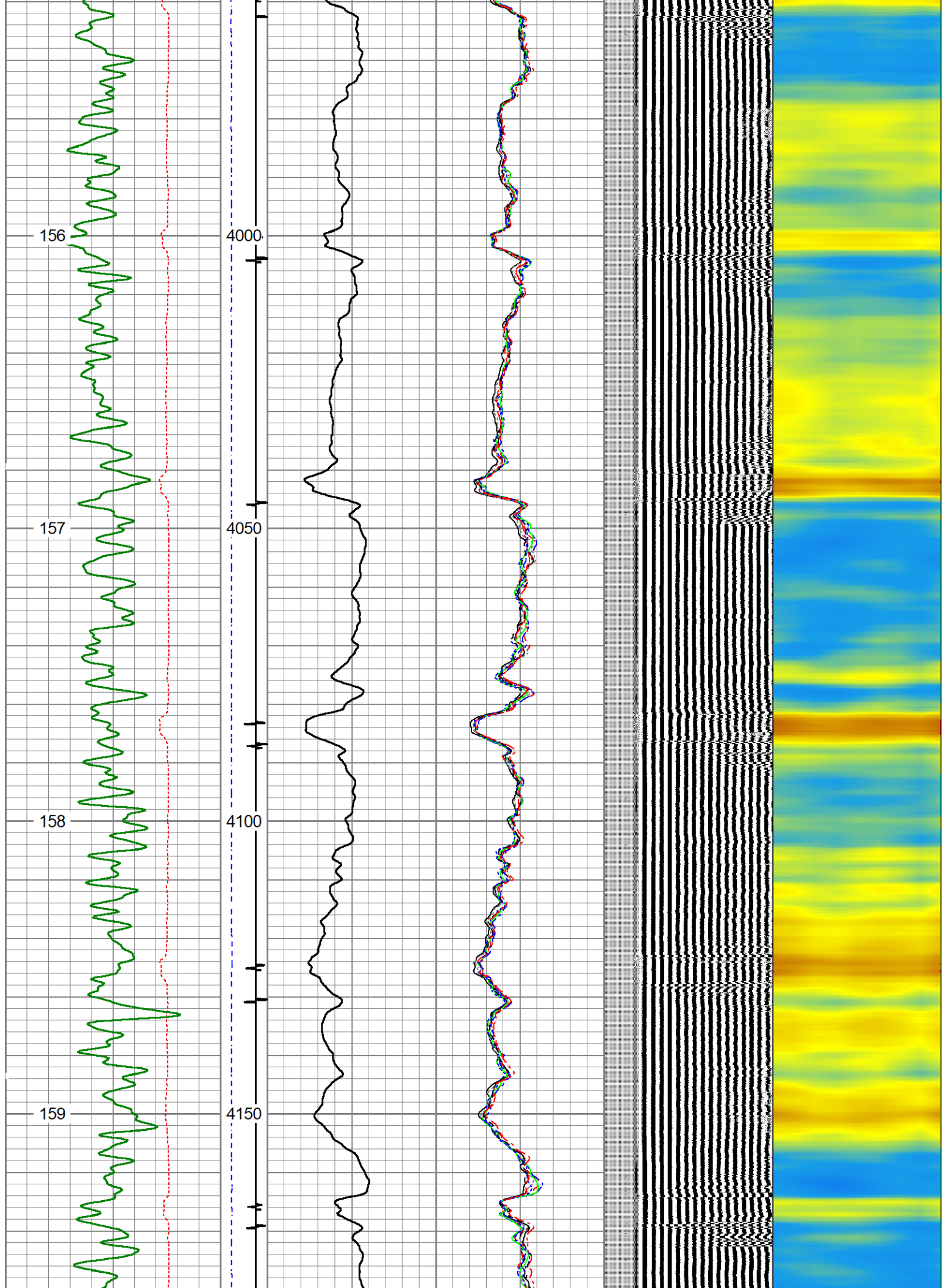




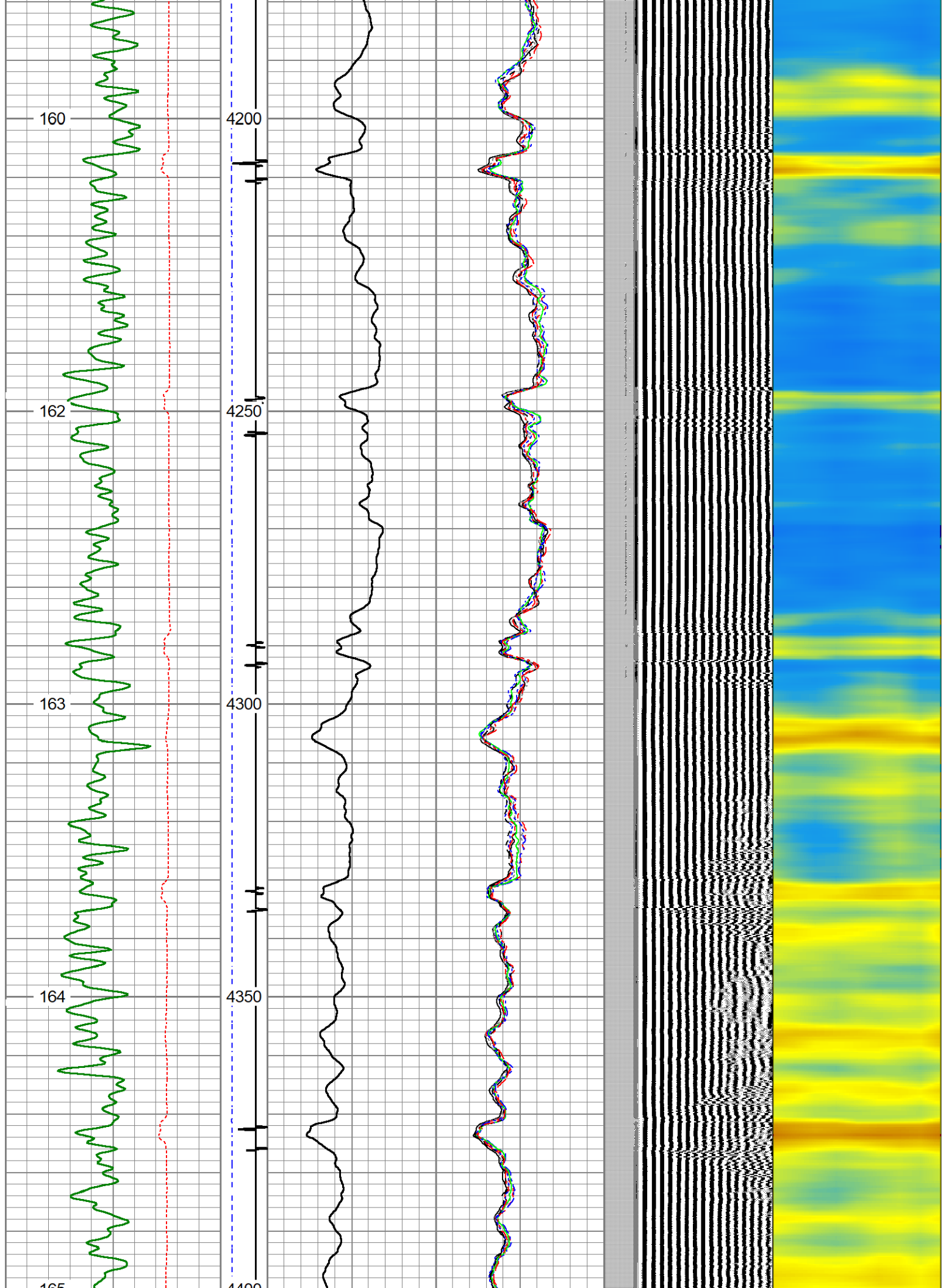


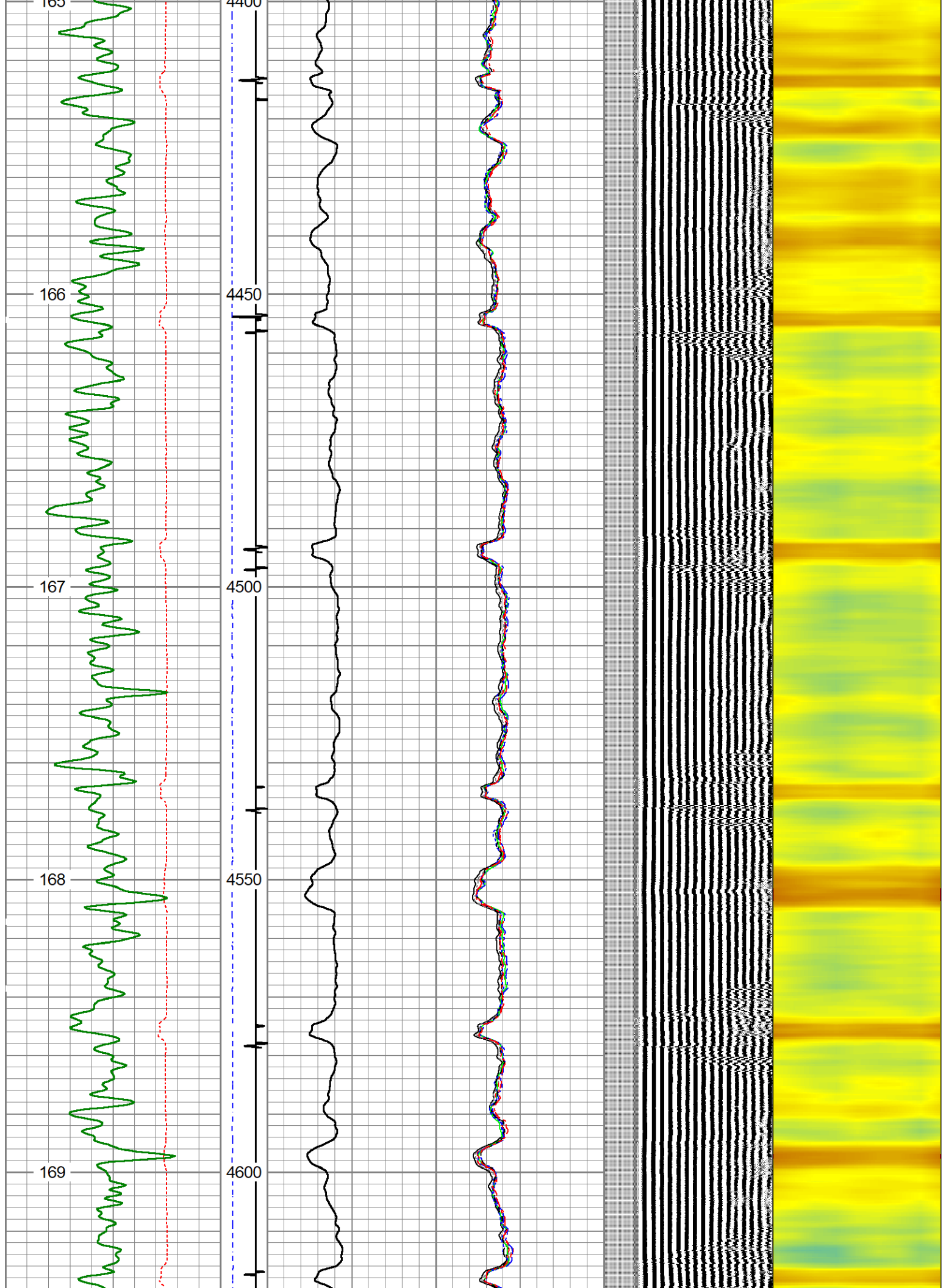


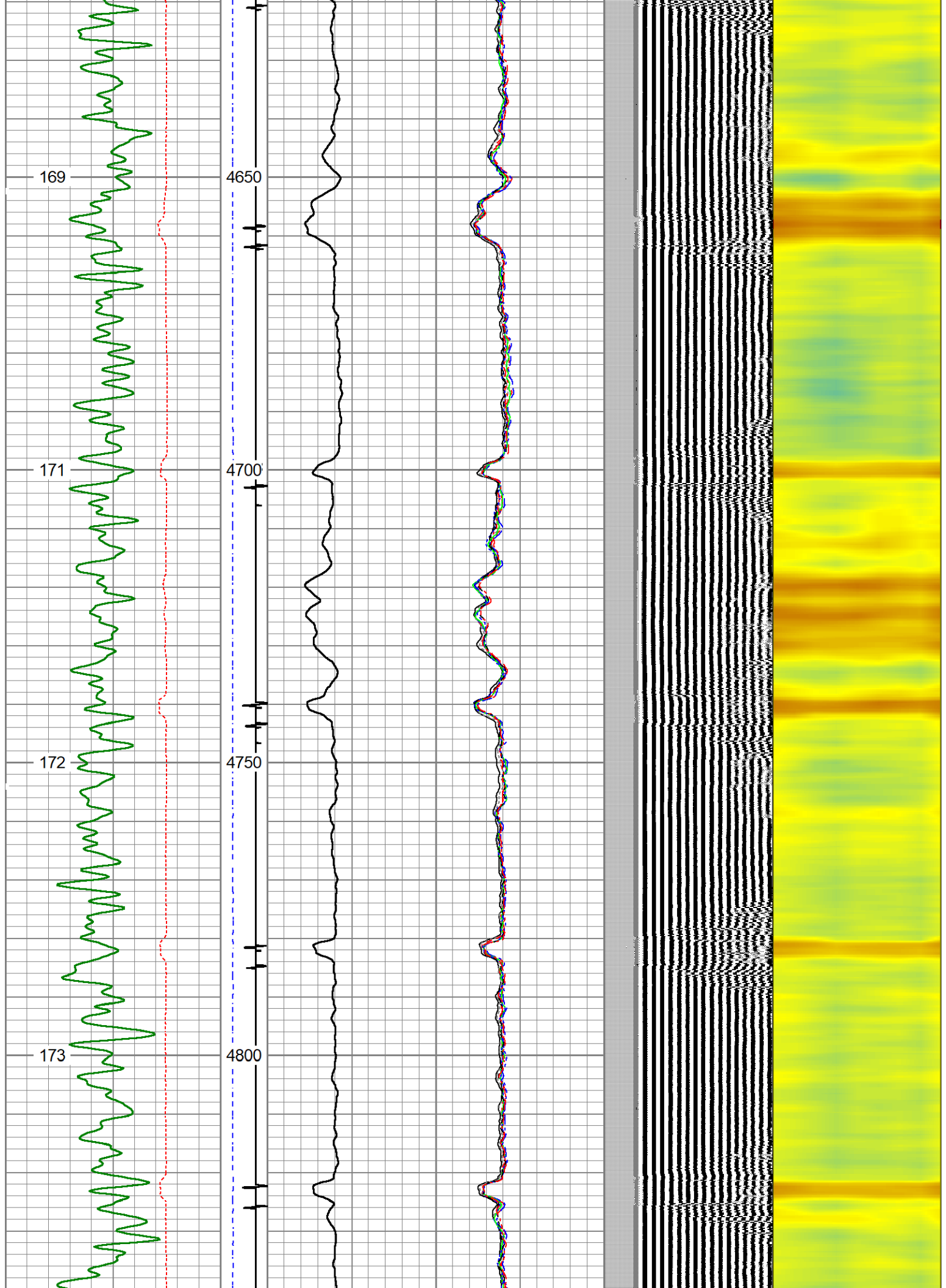




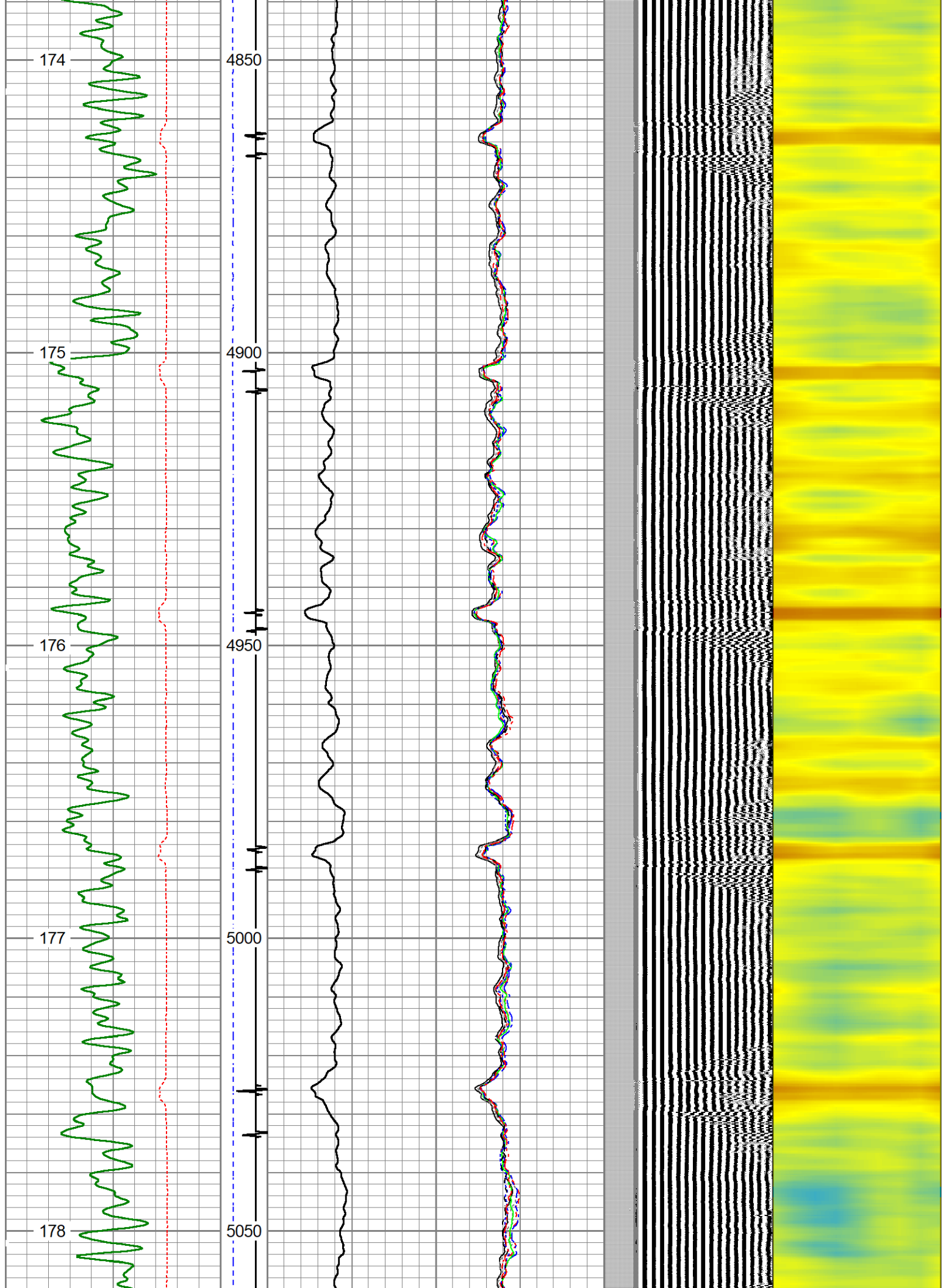


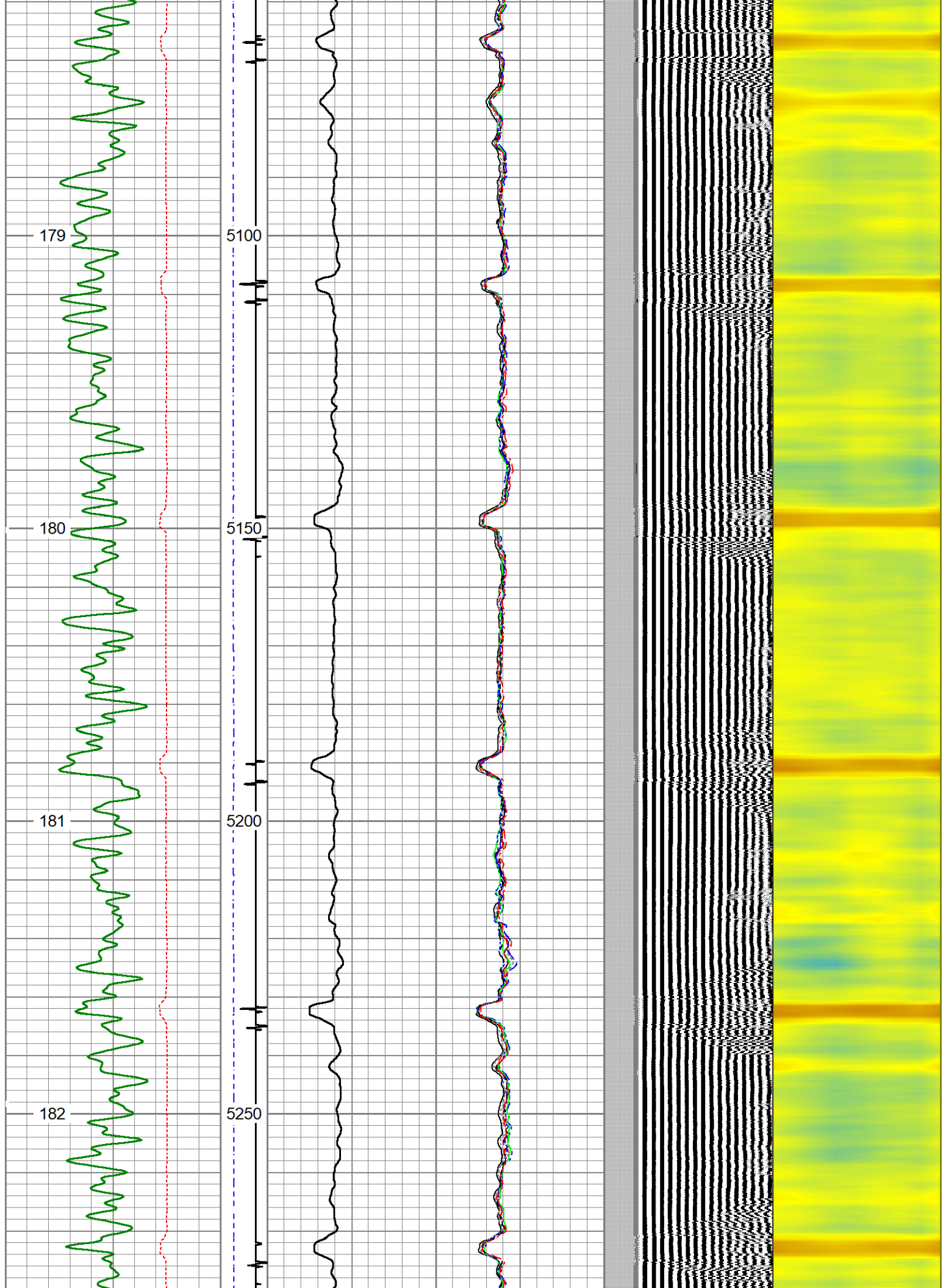


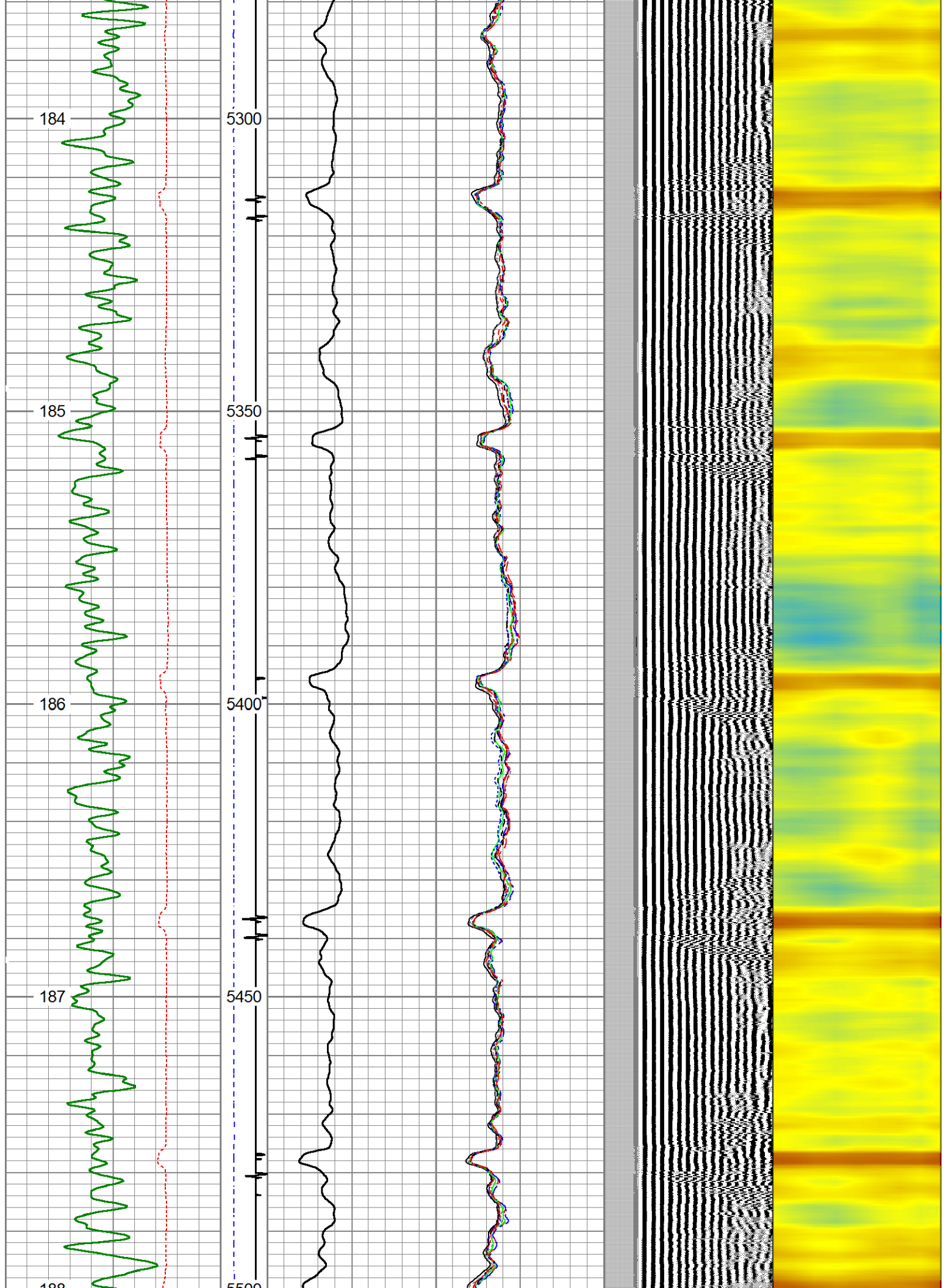




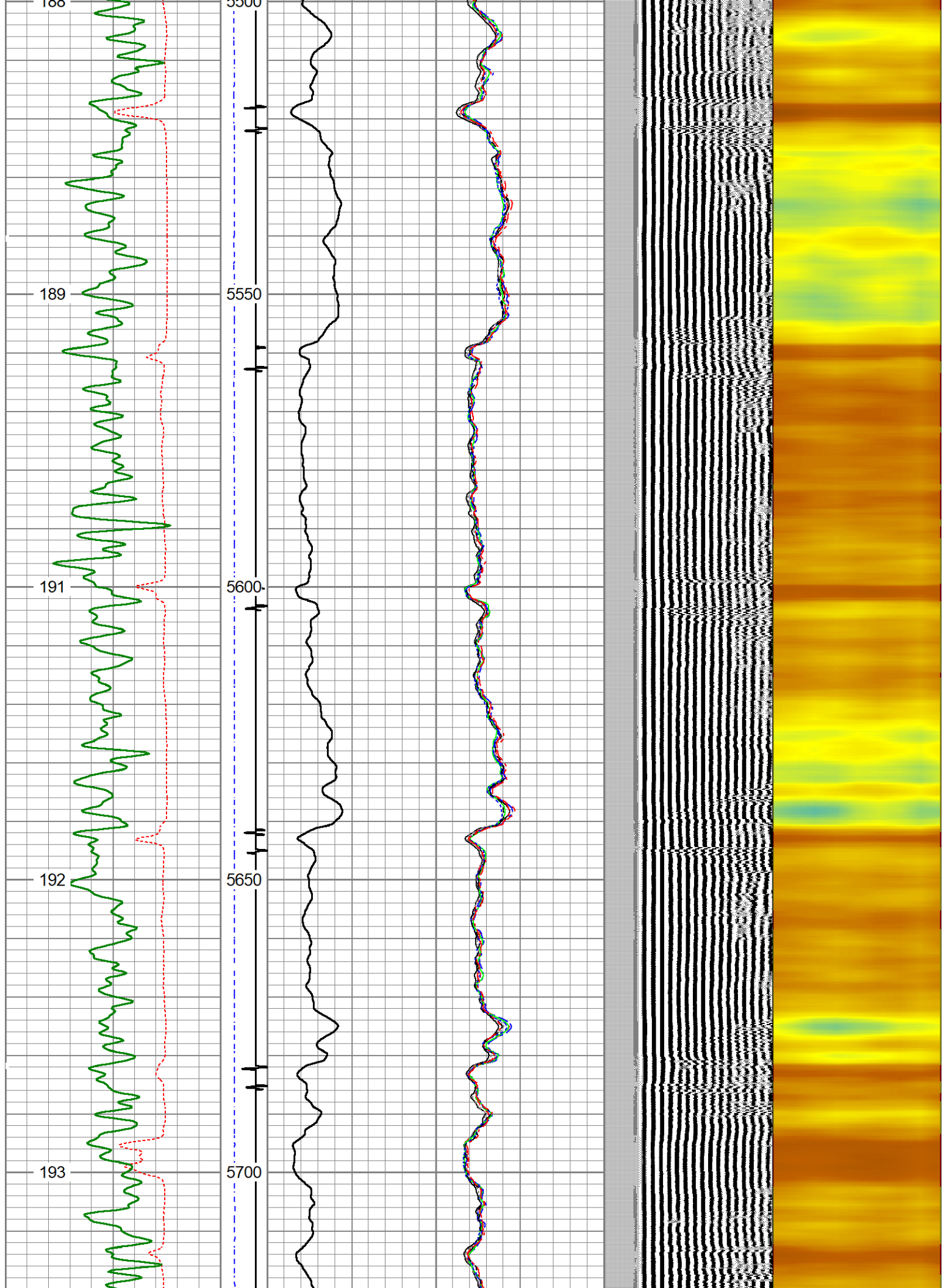


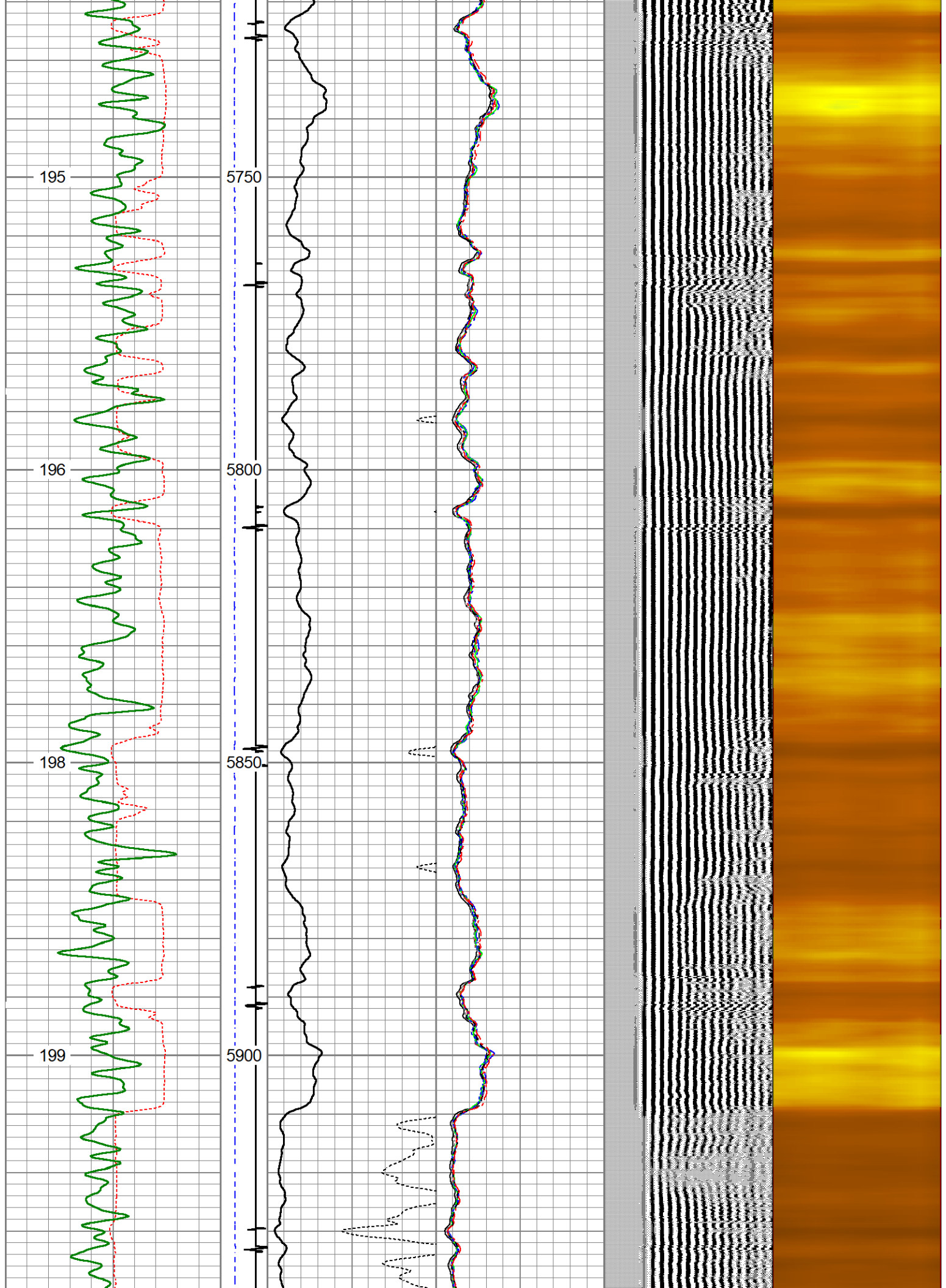


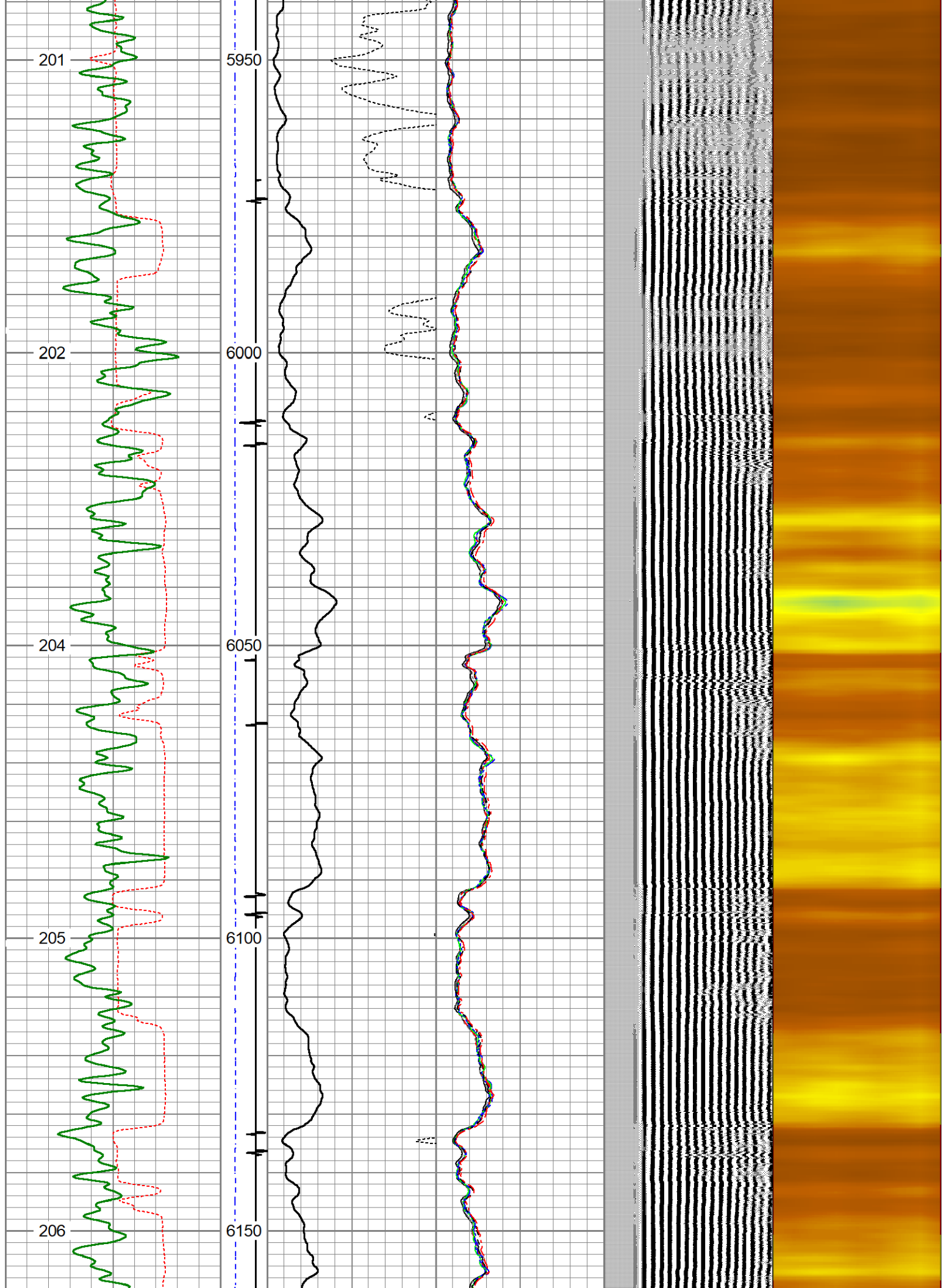




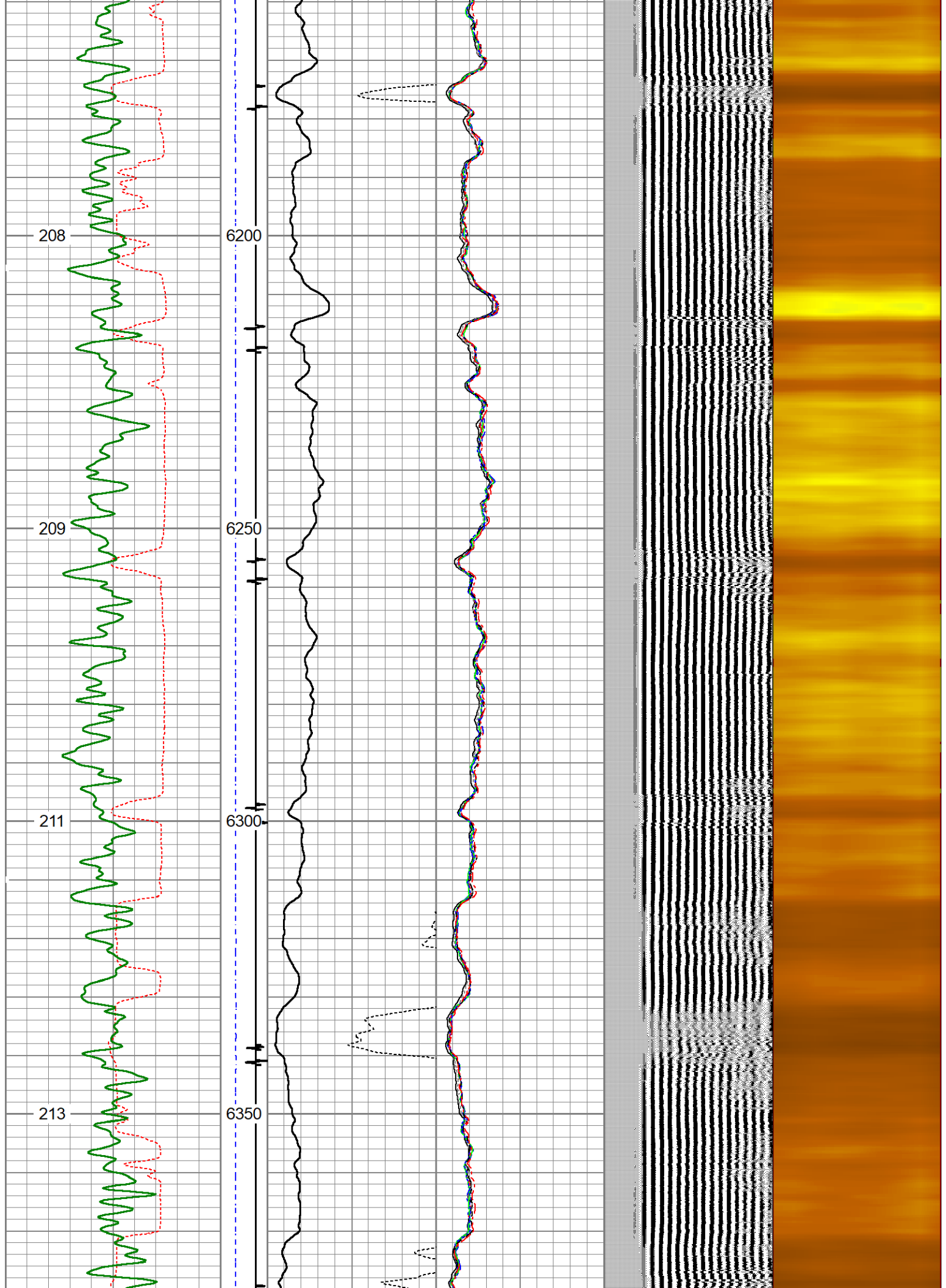


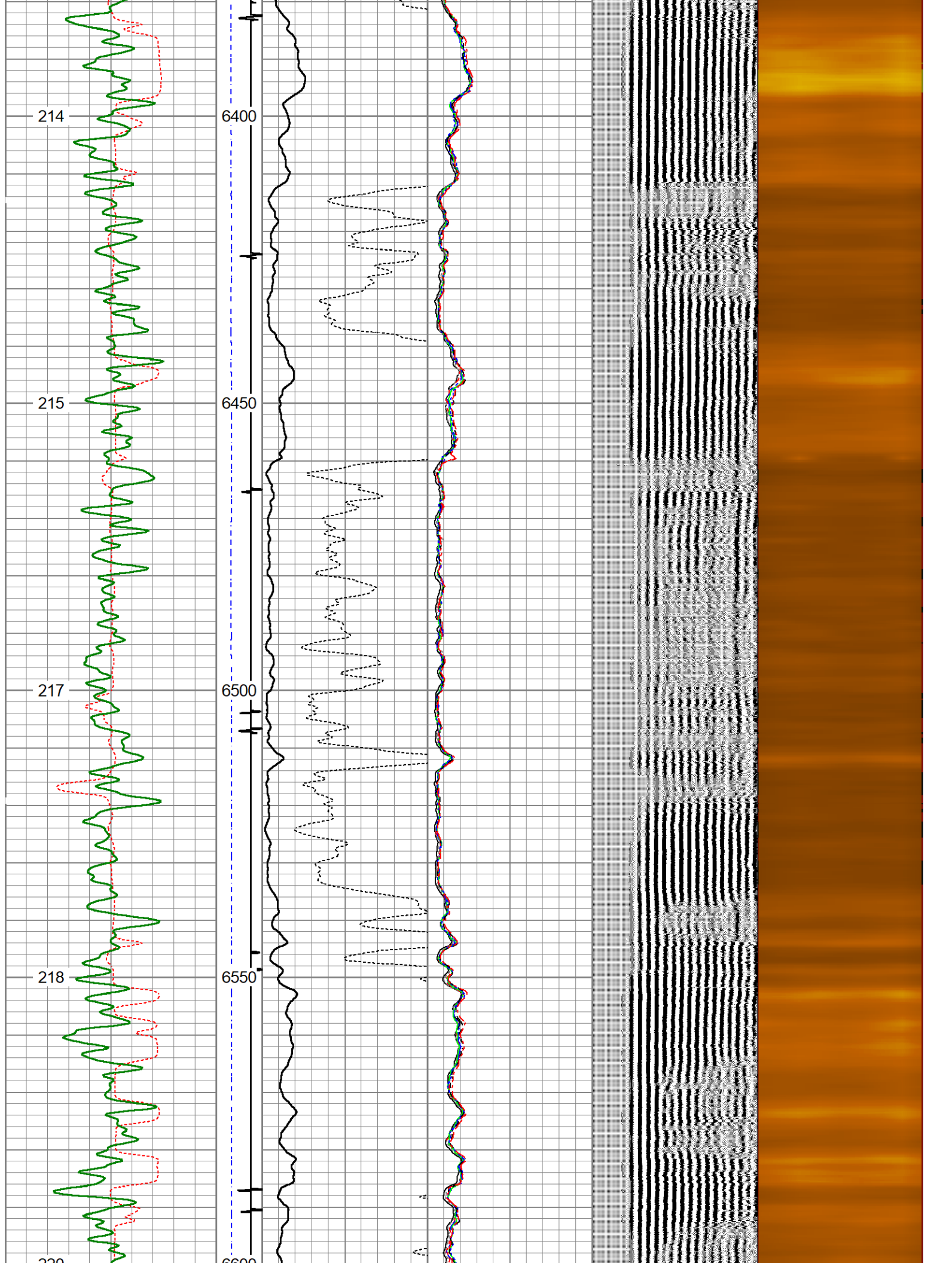


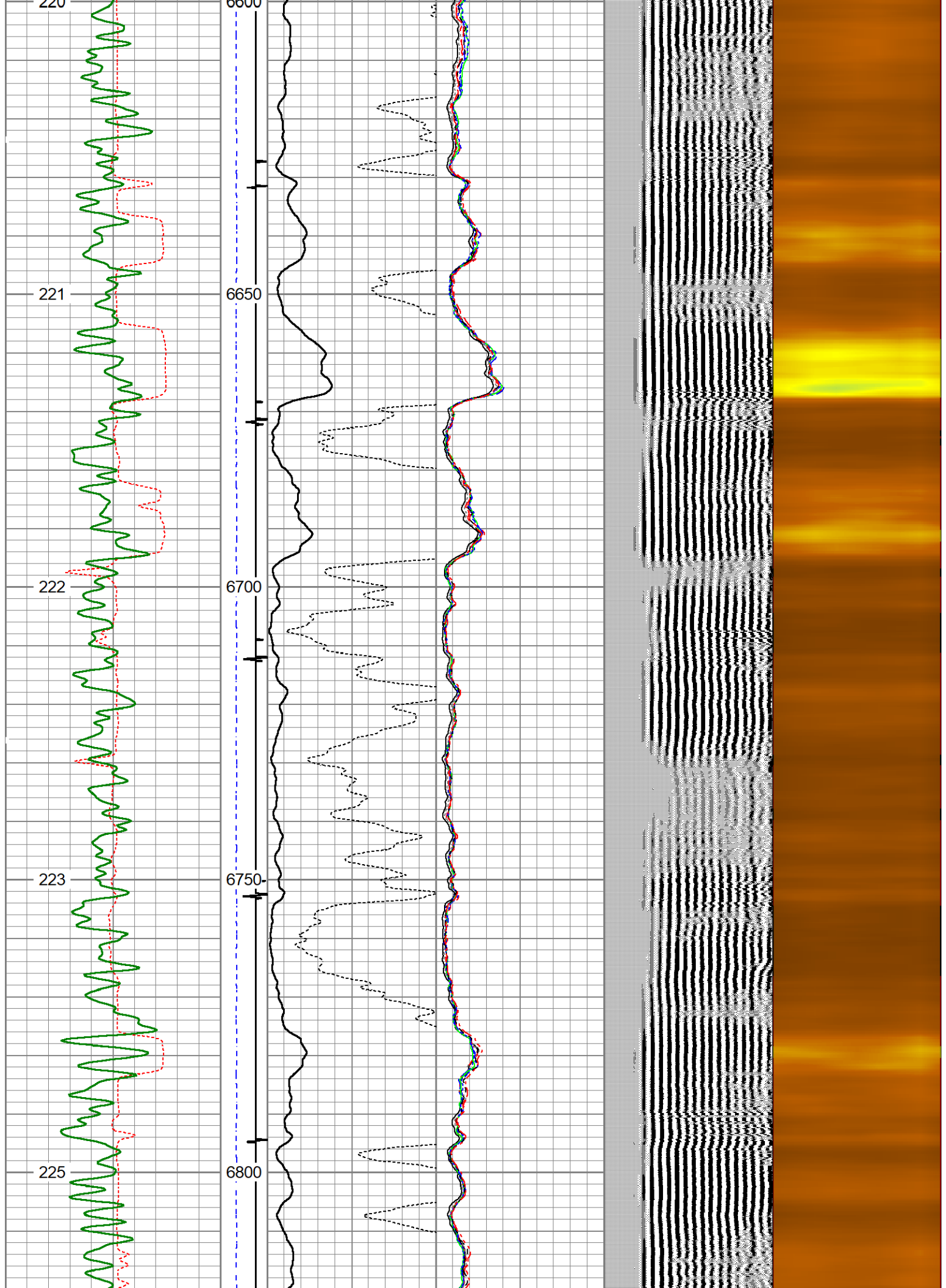




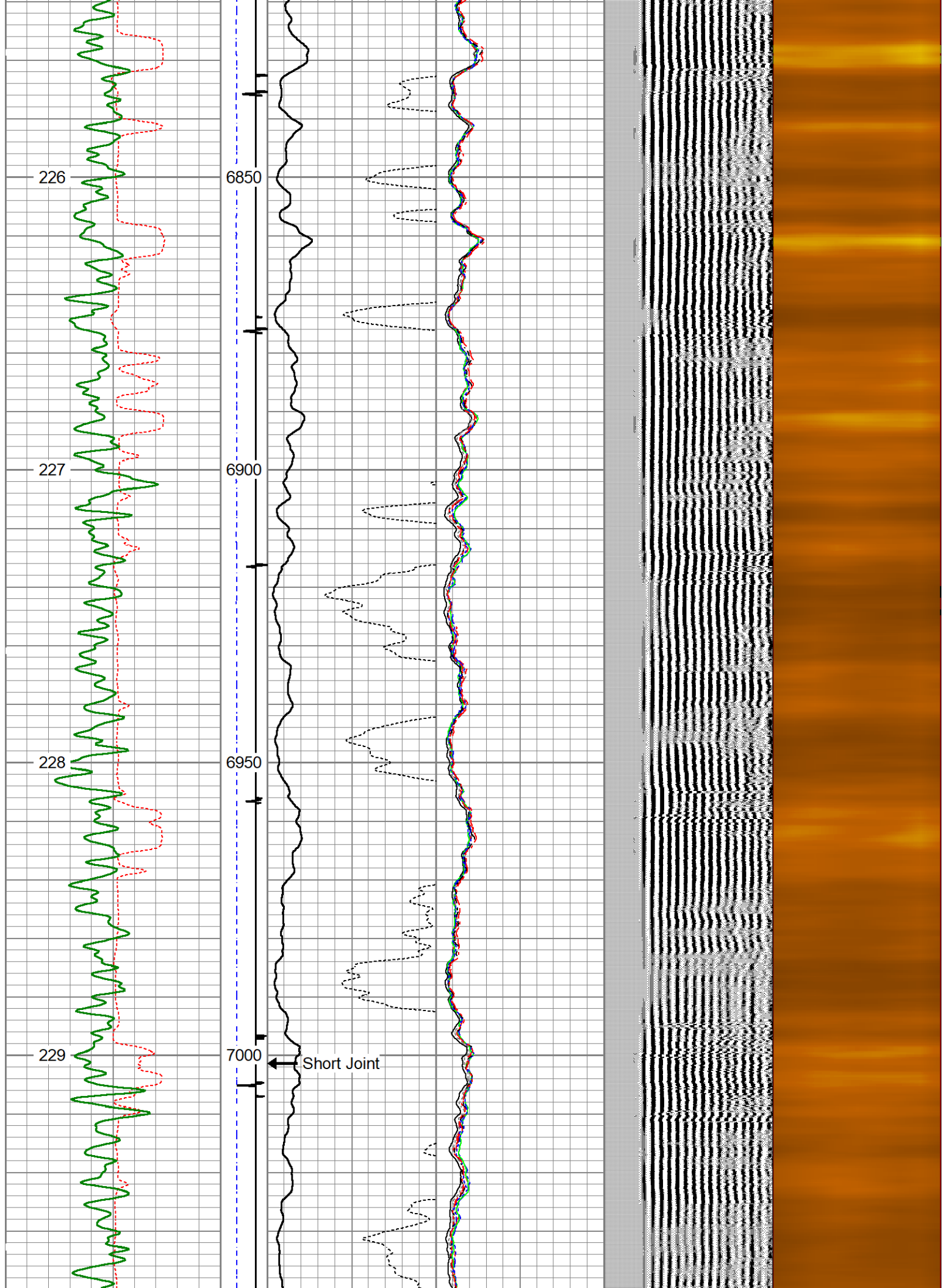


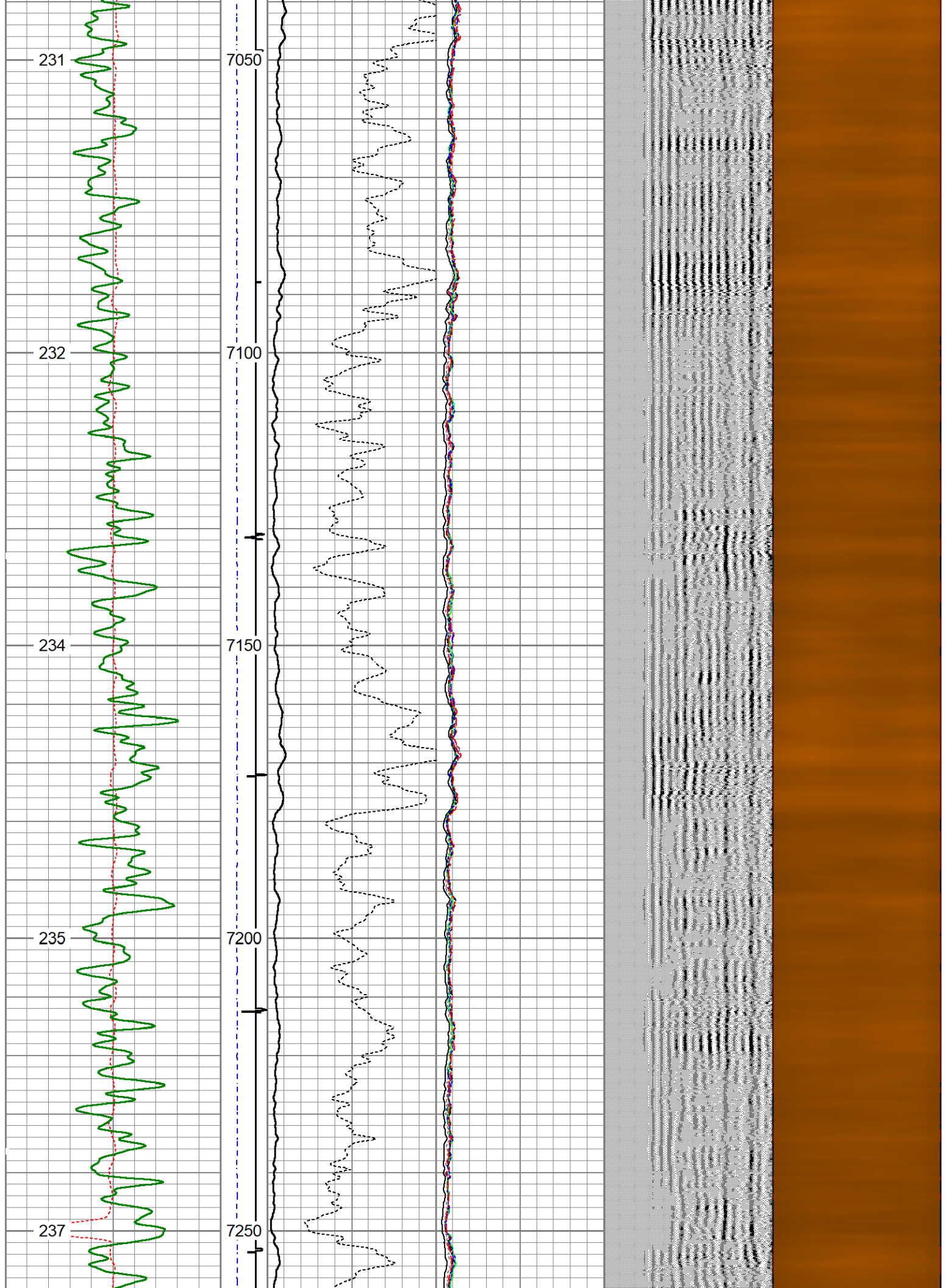




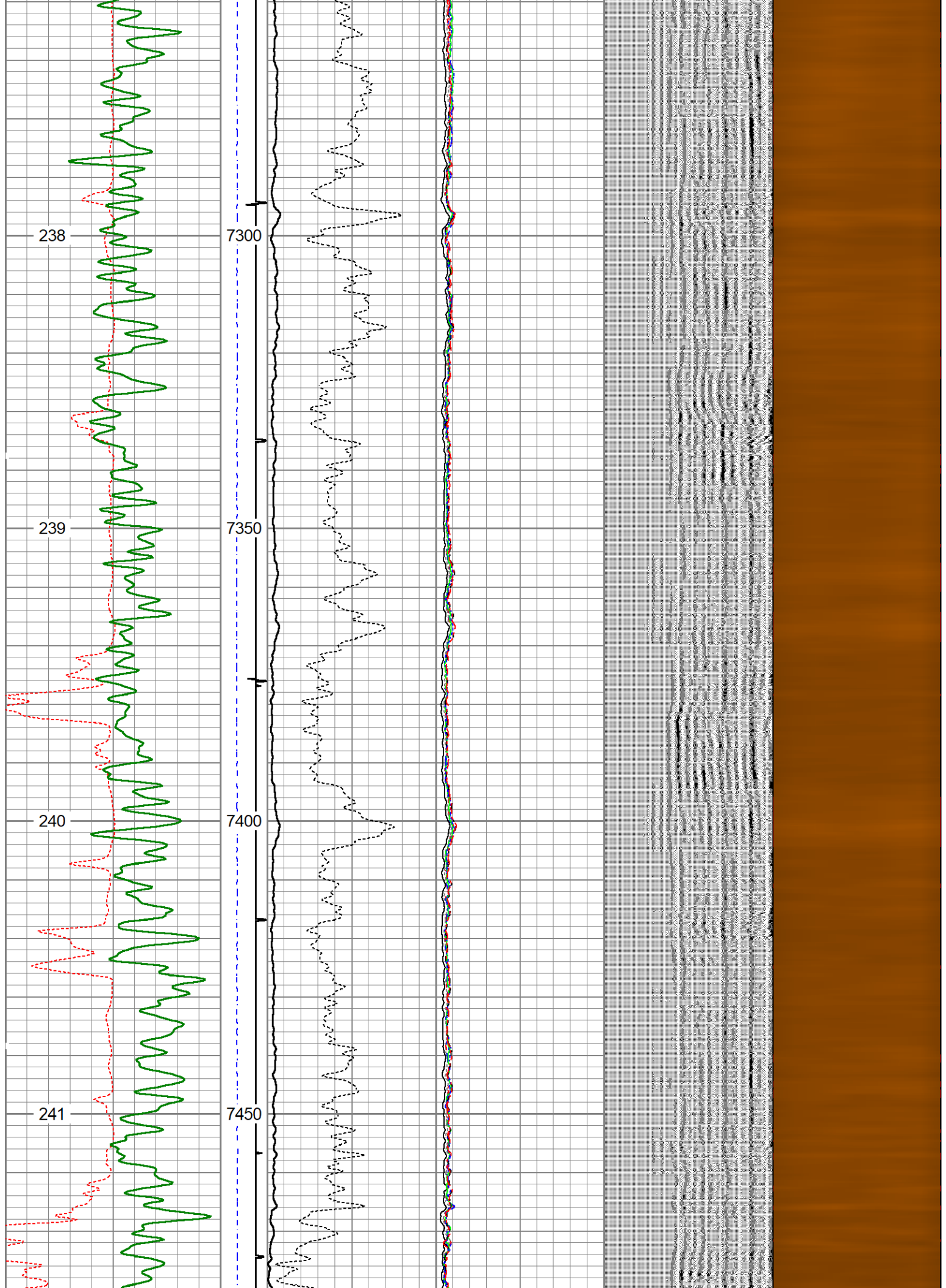




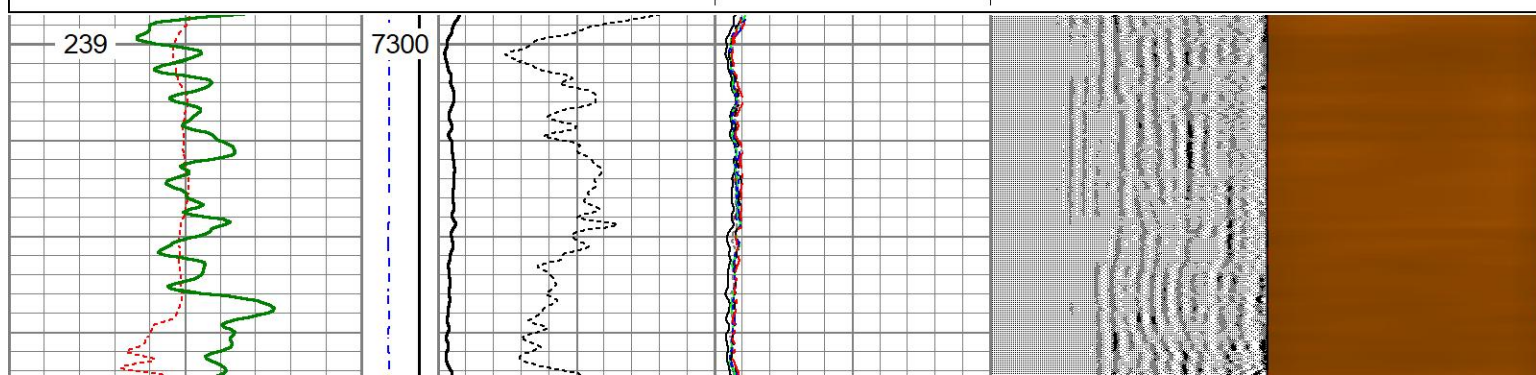
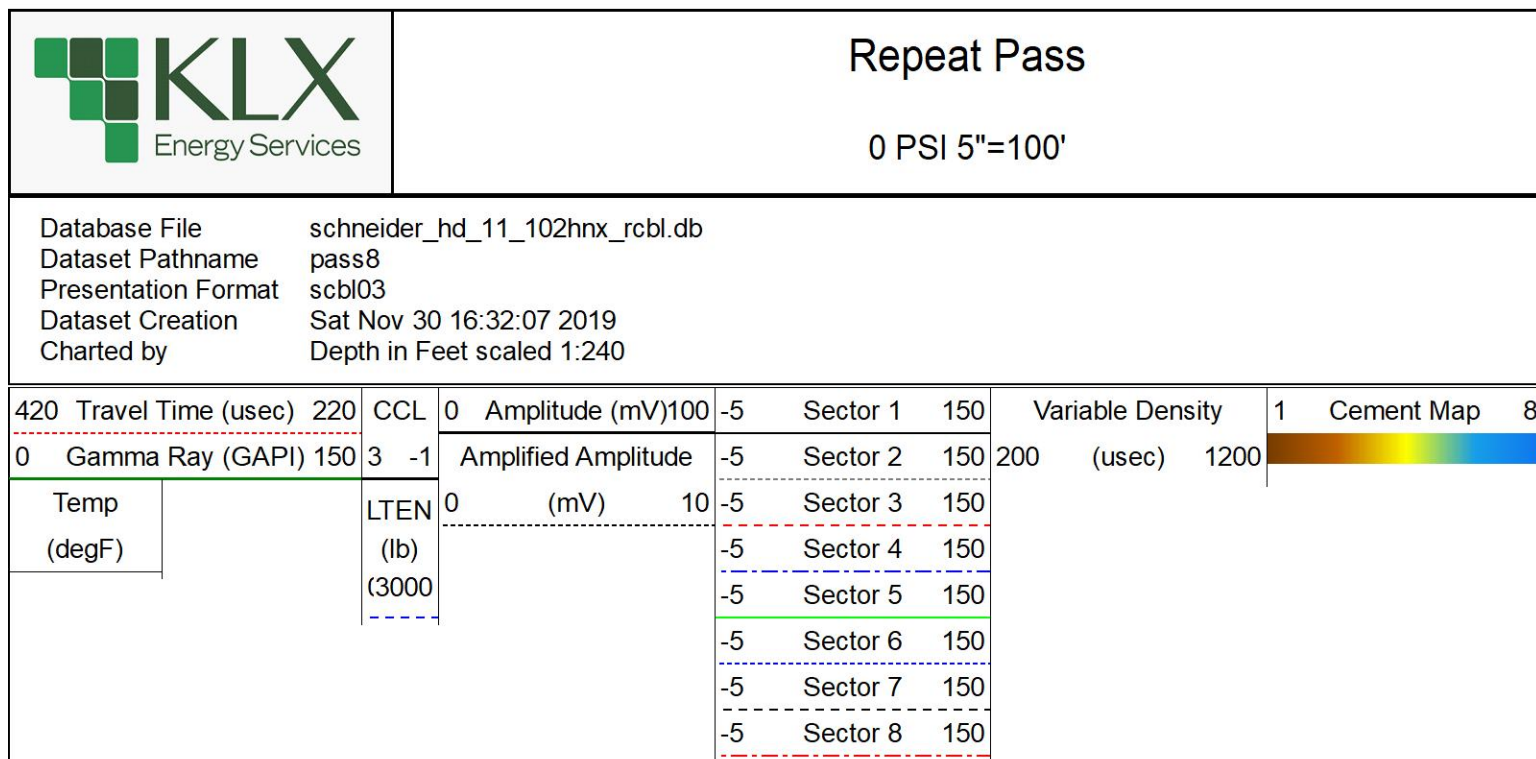
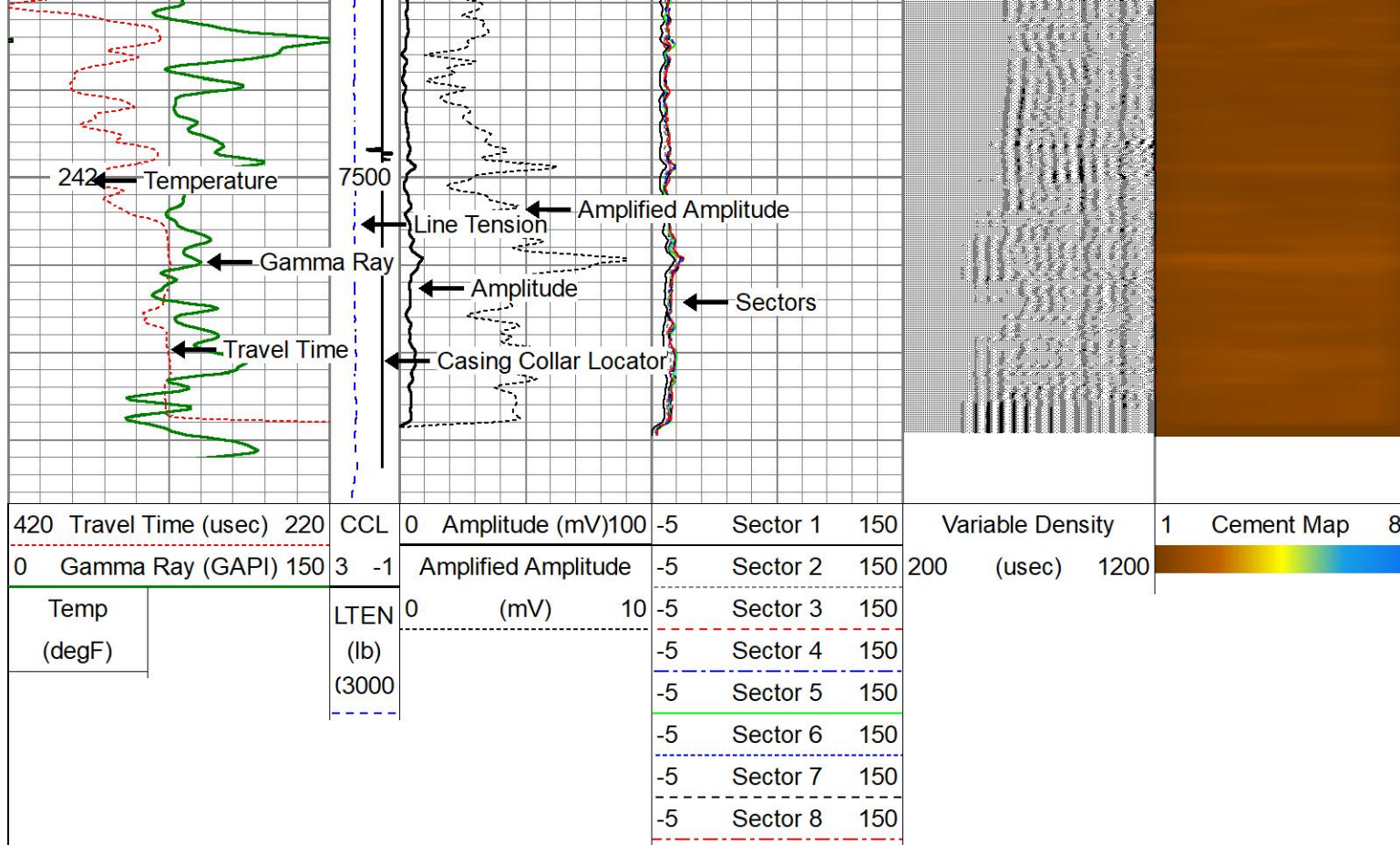




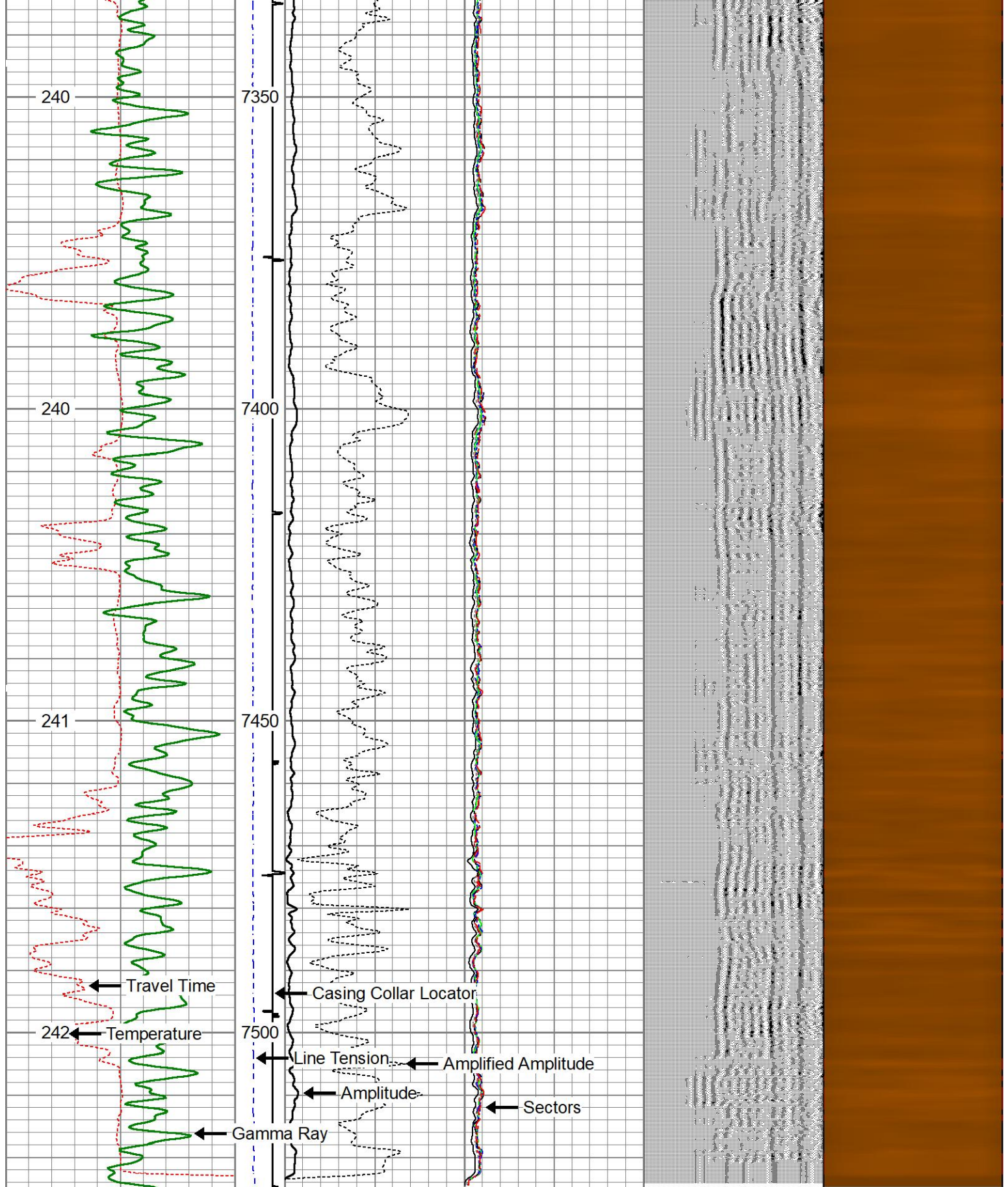












420	Travel Time (usec)	220	CCL	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
0	Gamma Ray (GAPI)	150	3	-1	Amplified Amplitude		-5	Sector 2	150	200	(usec)	1200	
Temp			LTEN	0	(mV)	10	-5	Sector 3	150				
(degF)			(lb)				-5	Sector 4	150				
			(3000				-5	Sector 5	150				

-5	Sector 6	150
-5	Sector 7	150
-5	Sector 8	150

## Log Variables

DatabaseC:\ProgramData\Warrior\Data\schneider\_hd\_11\_102hnx\_rcbl.db

Dataset field/well/run1/pass13.1/\_vars\_

### Top - 5600.00 ft

BHTEMP_Src TEMP	BOREID in 8.5	BOTTEMP degF 242	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 17	MAXAMPL mV 0	MINAMPL mV 1
MINATTN db/ft 0.8	PERFS No	PPT usec 263	SRFTEMP degF 0	TDEPTH ft 0			

### 5600.00 ft - Bottom

### Variable Description

BHTEMP\_Src : BHTEMP Input Source Selector  
BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
CASEWGHT : Casing Weight  
MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude  
MINATTN : Minimum Attenuation  
PERFS : Perforation Flag  
PPT : Predicted Pipe Time  
SRFTEMP : Surface Temperature  
TDEPTH : Total Depth

### Calibration Report

Database File schneider\_hd\_11\_102hnx\_rcbl.db  
Dataset Pathname pass13.1  
Dataset Creation Sat Nov 30 18:12:33 2019

### Gamma Ray Calibration Report

Serial Number: FW1304-44  
Tool Model: Probe275  
Performed: Wed Nov 27 12:25:12 2019

Calibrator Value: 1036.2 GAPI

Background Reading: 64.0 cps  
Calibrator Reading: 1252.4 cps

Sensitivity: 0.8719 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: FW1306-47  
Tool Model: Probe 2.75 Radii W/Temp

Calibration Casing Diameter: 5.500 in  
Calibration Depth: 3279.400 ft

Master Calibration, performed Sat Nov 30 16:17:17 2019:



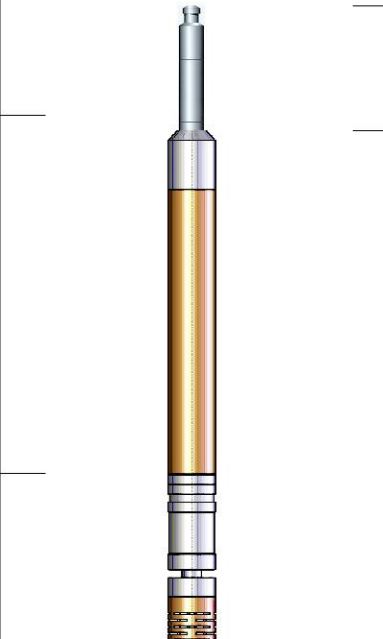
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.456	0.000	71.921	160.285	-1.239
CAL	0.009	0.608				
5'	0.008	0.381	0.000	71.921	192.554	-1.528
SUM						
S1	0.019	0.439	0.000	100.000	238.514	-4.647
S2	0.013	0.451	0.000	100.000	228.196	-2.878
S3	0.008	0.455	0.000	100.000	223.764	-1.718
S4	0.008	0.451	0.000	100.000	225.513	-1.710
S5	0.008	0.454	0.000	100.000	223.807	-1.691
S6	0.008	0.455	0.000	100.000	223.642	-1.783
S7	0.008	0.444	0.000	100.000	229.057	-1.764
S8	0.008	0.445	0.000	100.000	228.814	-1.768

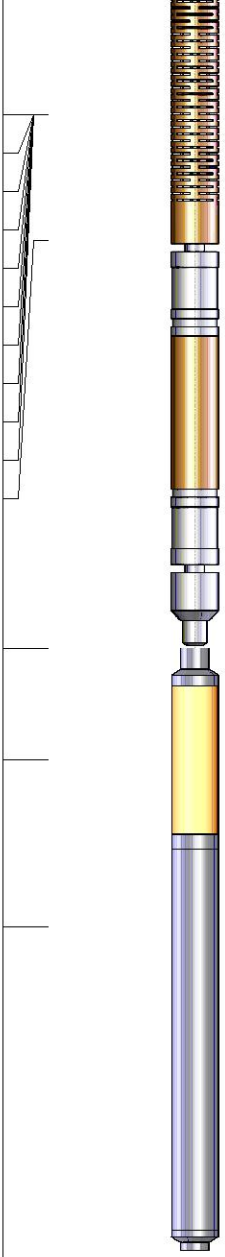
Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.009	0.608	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	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	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	14.13		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	11.28					

			RBT-Probe 2.75 Radii W/Temp (FW1306-47) Probe 2.75" Radial with Integral Temperature Sub	9.21	2.75	90.00
WVFS8	9.05					
WVFS7	9.05					
WVFS6	9.05					
WVFS5	9.05					
WVFS4	9.05					
WVFS3	9.05					
WVFS2	9.05					
WVFS1	9.05					
WVFCAL	9.05					
WVF3FT	9.05					
WVF5FT	8.05					
HEADVOLT	4.80					
CCL	3.92					
GR	2.58		GR-Probe275 (FW1304-44) Probe 2 3/4" Logging Gamma Ray 6 Pin	4.80	2.75	57.00
Dataset: schneider_hd_11_102hnx_rcbl.db: field/well/run1/pass13.1 Total length: 15.01 ft Total weight: 152.00 lb O.D.: 2.75 in						

	Company	Great Western Oil & Gas	
	Well	Schneider HD 11-102HNX	
	Field	Wattenberg	
	County	Weld	
	State	Colorado	Country