

CEMENT BOND LOG

Company	BONANZA CREEK ENERGY		
Well	STATE PRONGHORN U-32-31 MRLNB		
Field	WATTENBERG		
County	WELD		
State	COLORADO		
Company	BONANZA CREEK ENERGY		Other Services NONE
Well	STATE PRONGHORN U-32-31 MRLNB		
Field	WATTENBERG		
County	WELD		
State	COLORADO		
Location:	API # : 05-123-40108-0000		Elevation K.B. 4581' D.F. 4580' G.L. 4564'
1278' FNL & 468' FEL NENE			
SEC 32 TWP 5N RGE 61W			
Permanent Datum	GL	Elevation	
Log Measured From	KB		
Drilling Measured From	KELLY BUSHING		

Date	19 DEC. 2014		
Run Number	ONE		
Depth Driller	6408' LT		
Depth Logger	5898'		
Bottom Logged Interval	5896'		
Top Log Interval	0'		
Open Hole Size	N/A		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	N/A		
Time Well Ready	13:30		
Time Logger on Bottom	14:30		
E equipment Number	13033		
Location	BRIGHTON		
Recorded By	J. OSTLER		
Witnessed By	MIKE SCHMIDT		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
			From
			To
Casing Record	Size	Wd/ft	Top
Surface String	9.625"	36#	0'
P rot. String	7"	26#	0'
P production String			
Liner			

<<< 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

WELL WAS LOGGED WITH 0 PSI AT THE WELL HEAD  
CREW: GILBERTO CAVAZOS, TIM FISHEL, TRACY DAVIS

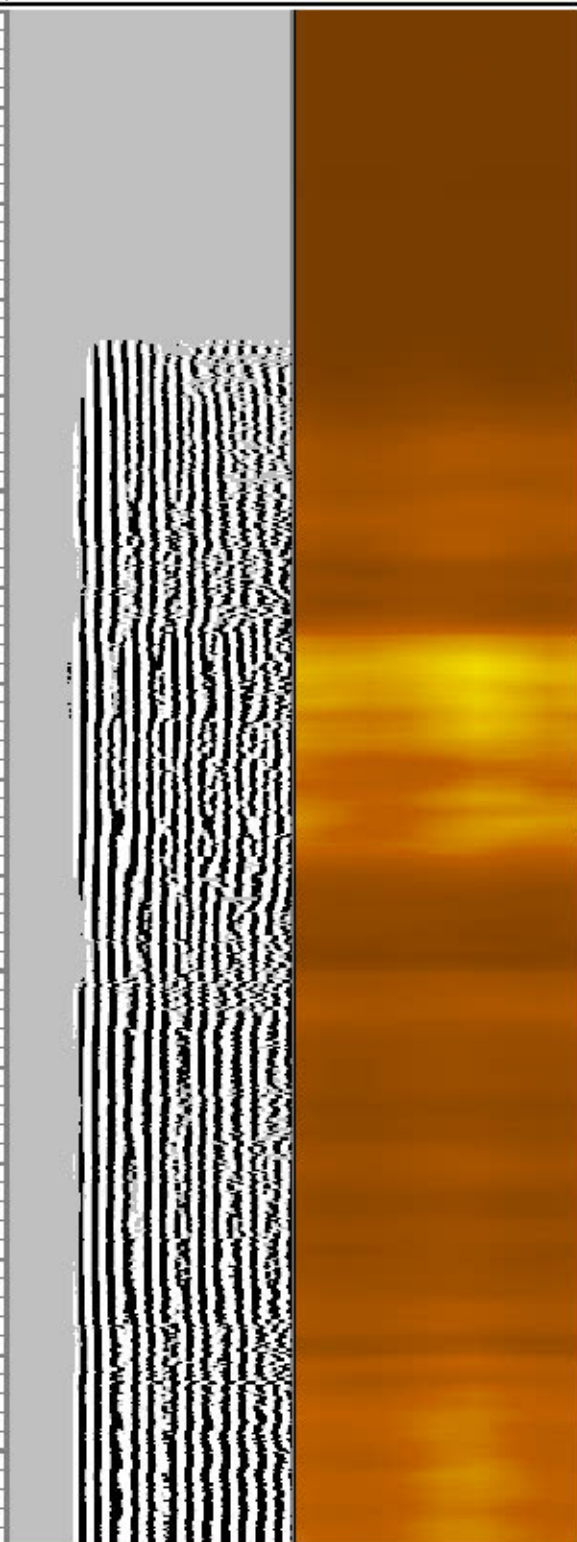
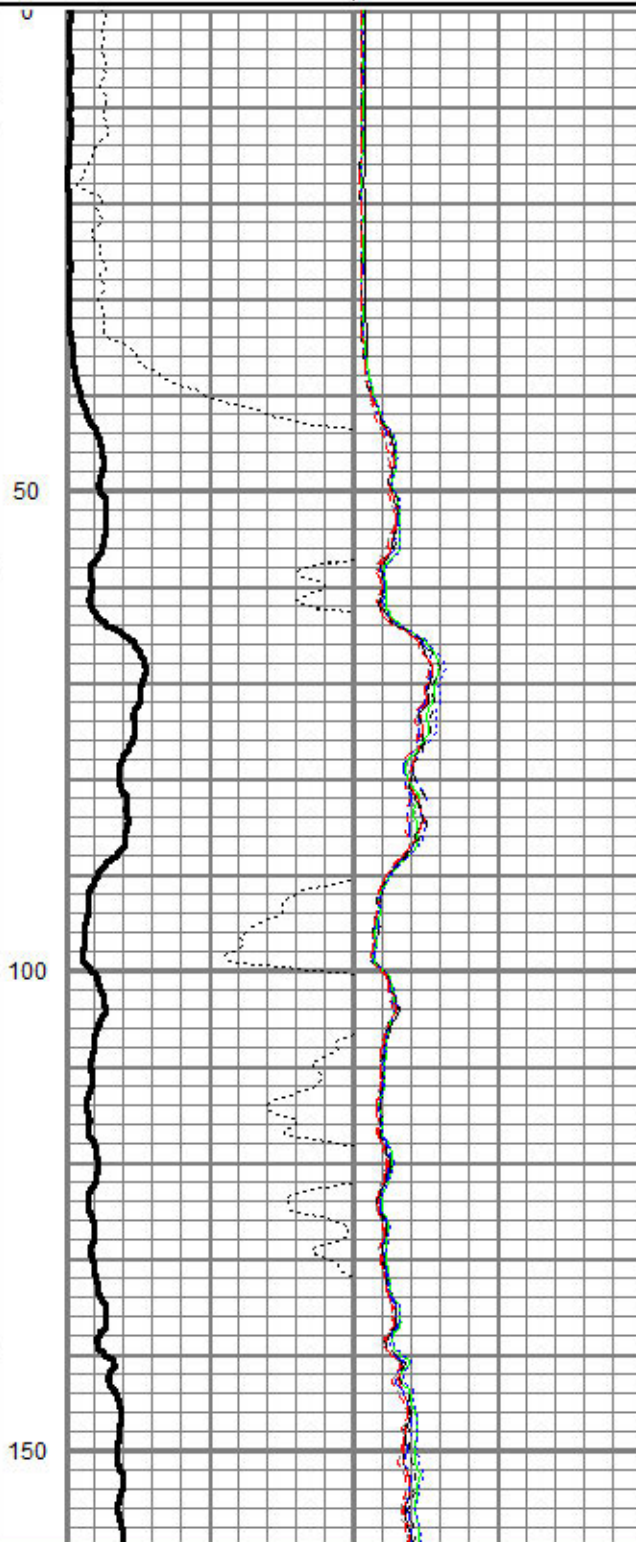
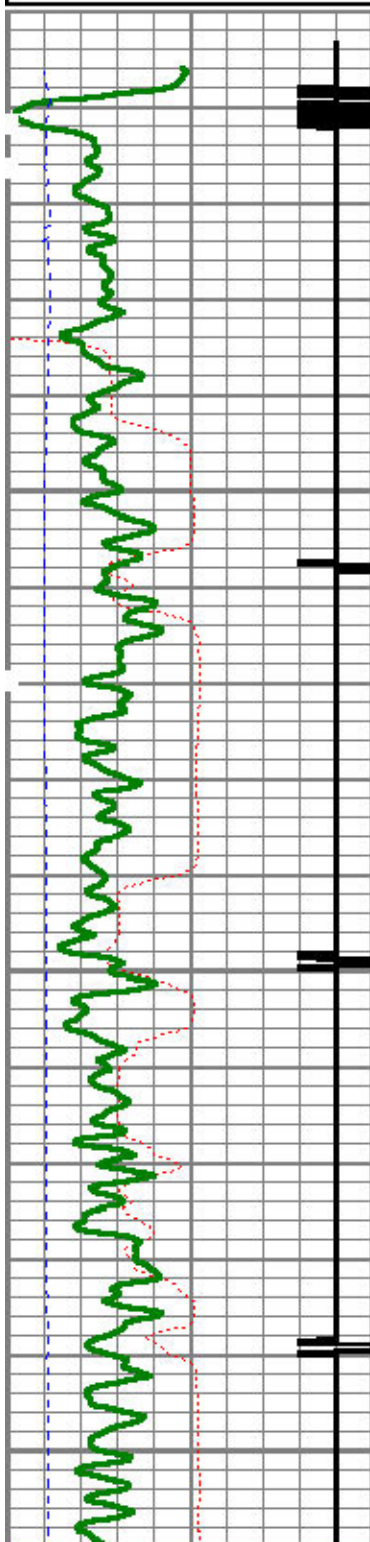
# WIRELINE SERVICES

Database File: bonanzanewpad.db  
 Dataset Pathname: pass12  
 Presentation Format: scbl03  
 Dataset Creation: Fri Dec 19 14:36:20 2014 by Log 0  
 Charted by: Depth in Feet scaled 1:240

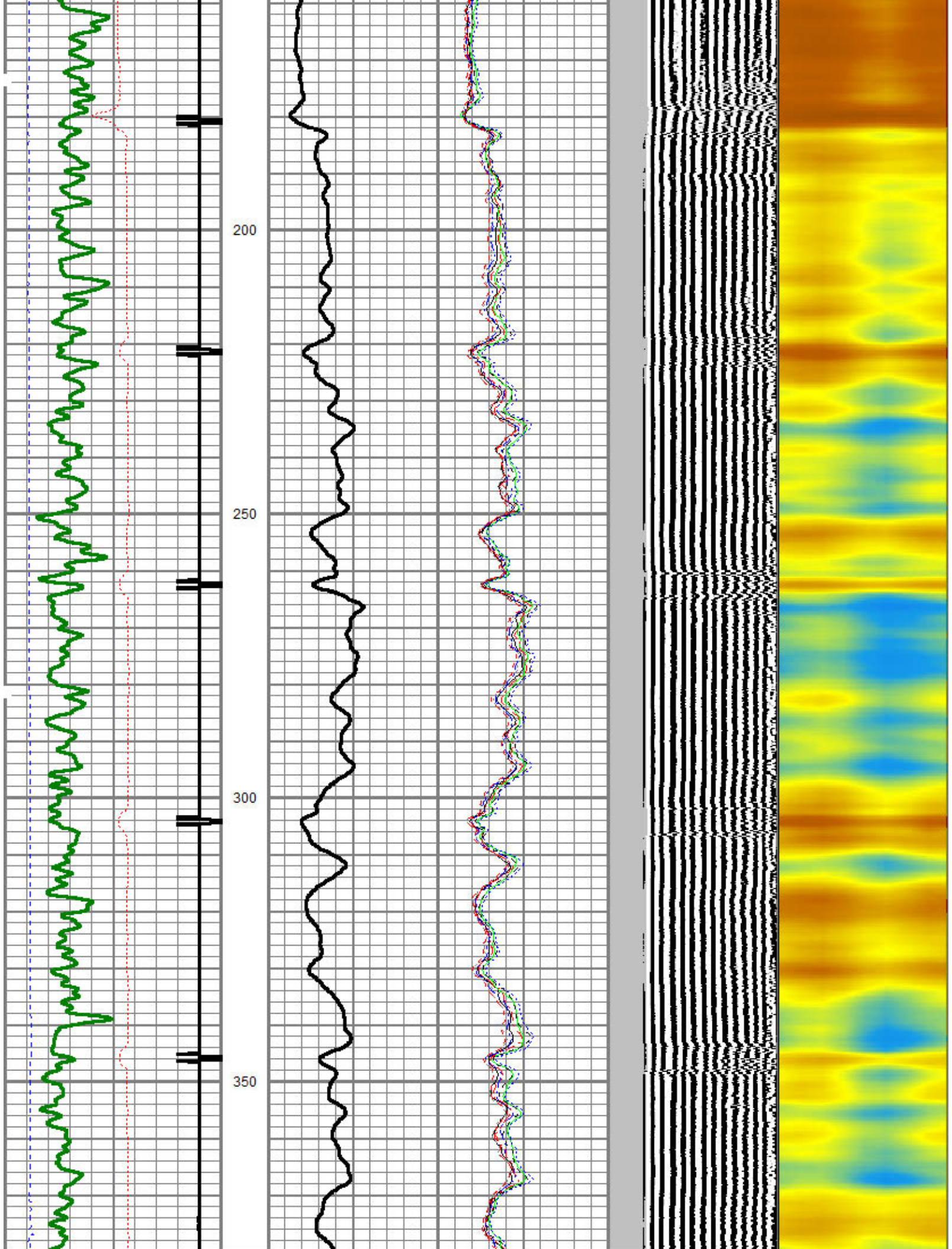
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

0	Amplitude (mV)	100
	Amplified Amplitude	
0	(mV)	10
-5	AMPS1	150
-5	AMPS2	150
-5	AMPS3	150
-5	AMPS4	150
-5	AMPS5	150
-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150

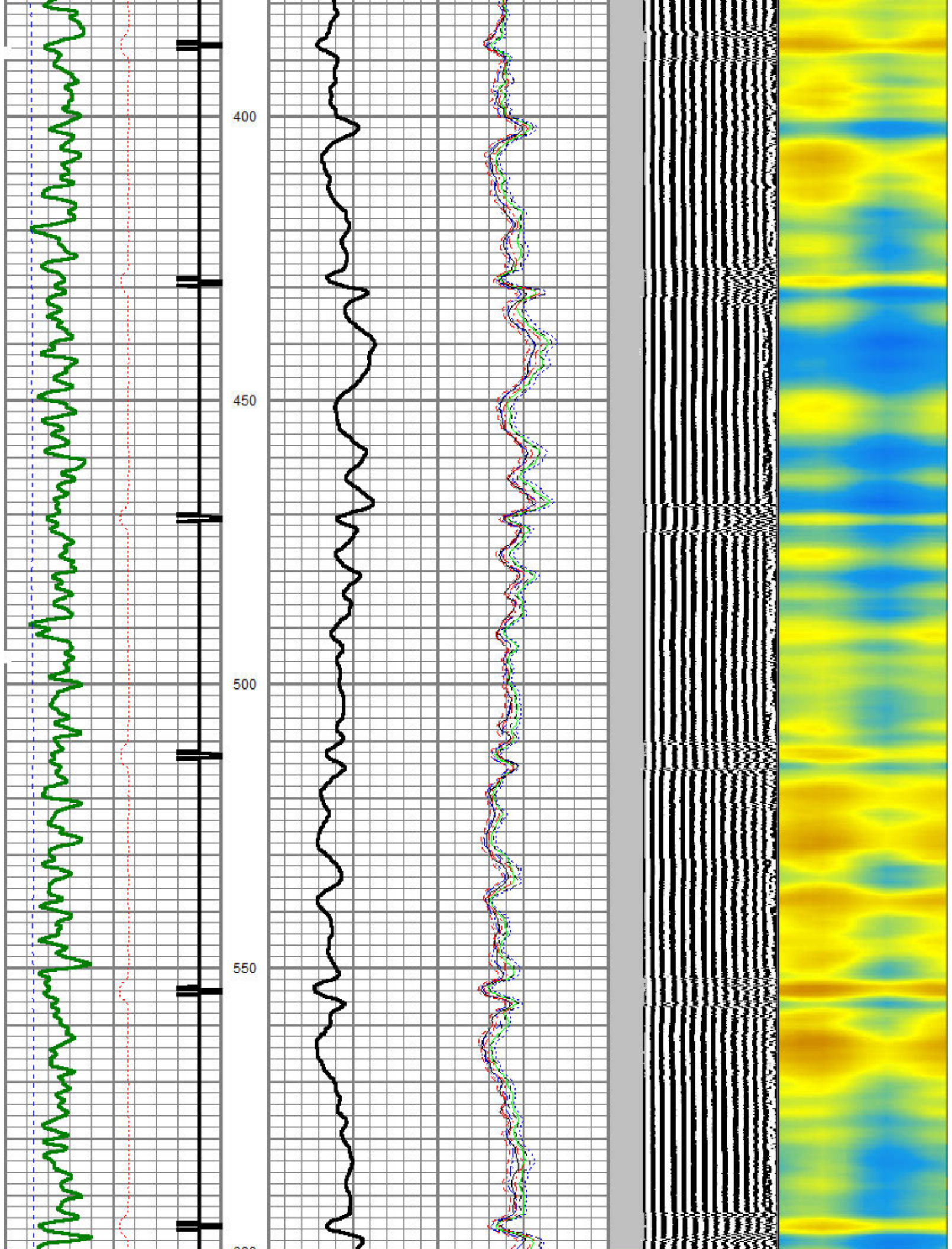
Variable Density	1	Cement Map	8
200	1200	0	100



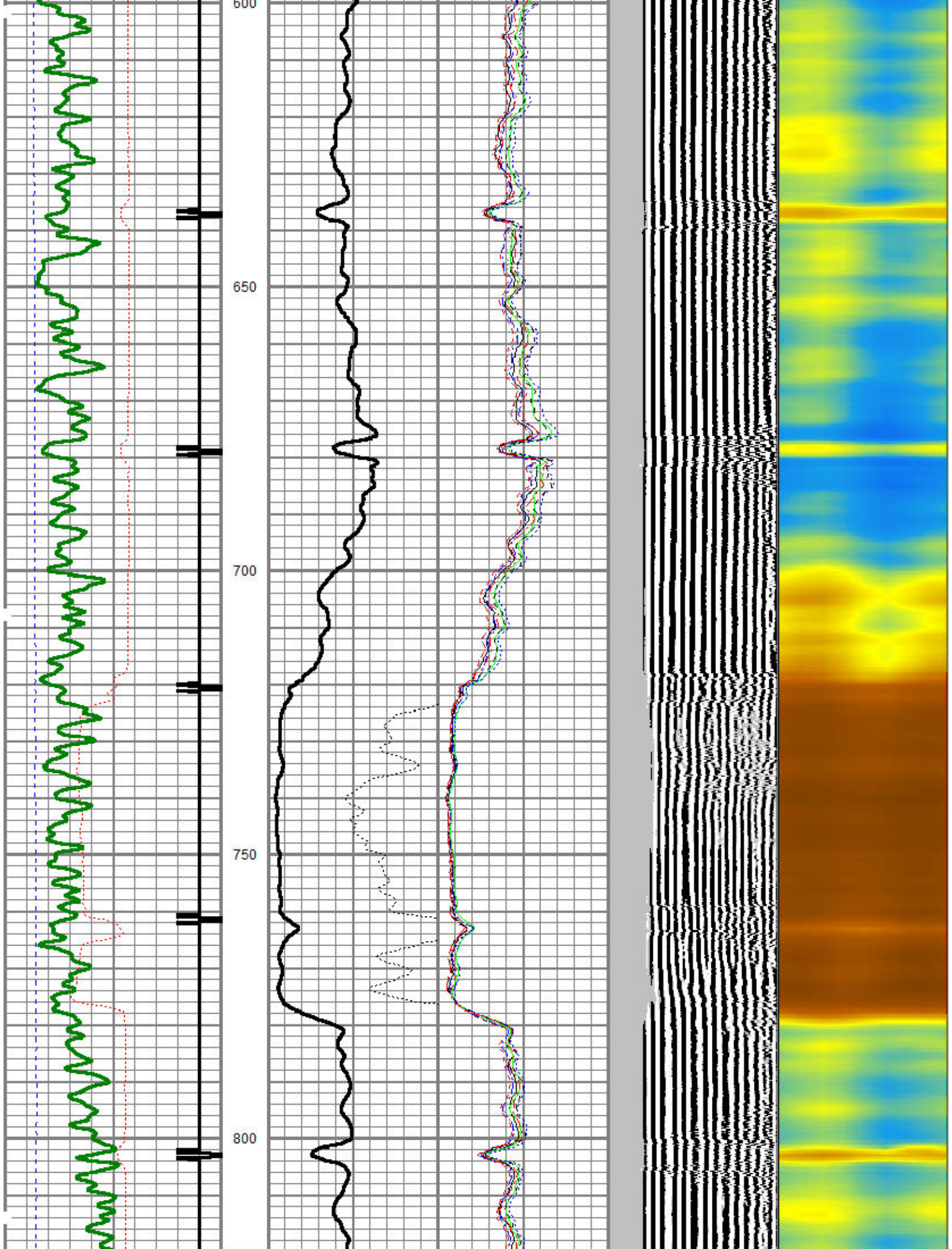




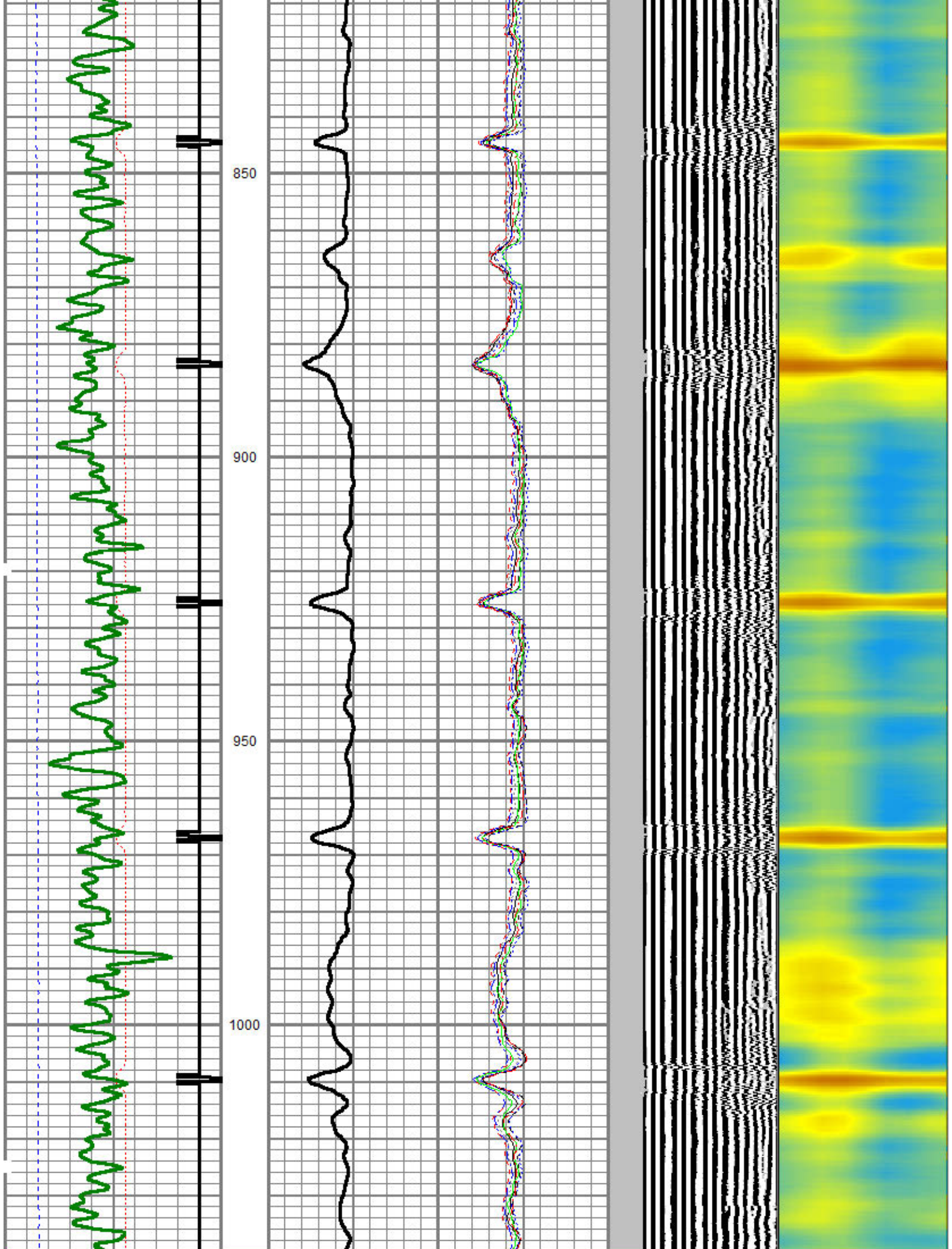




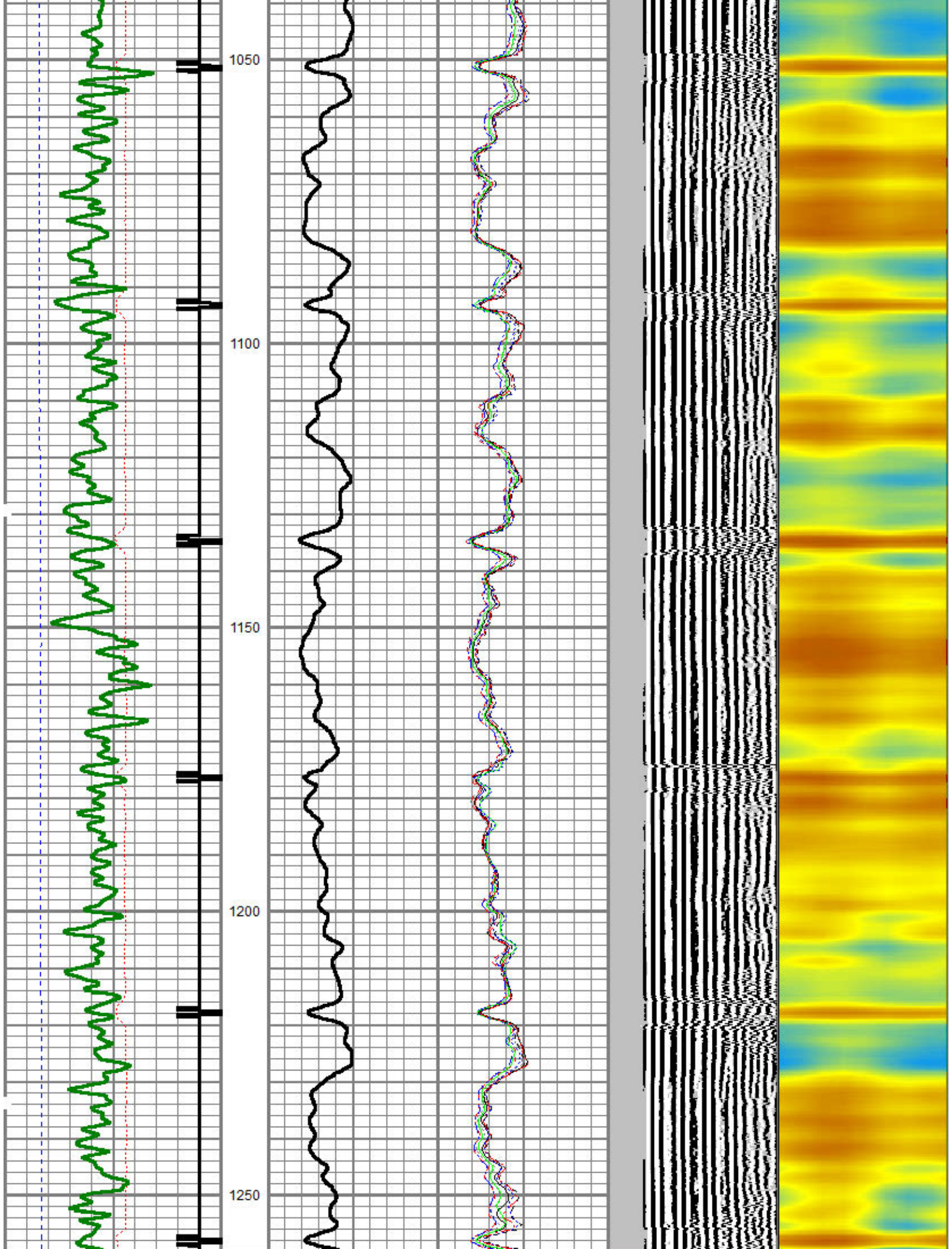




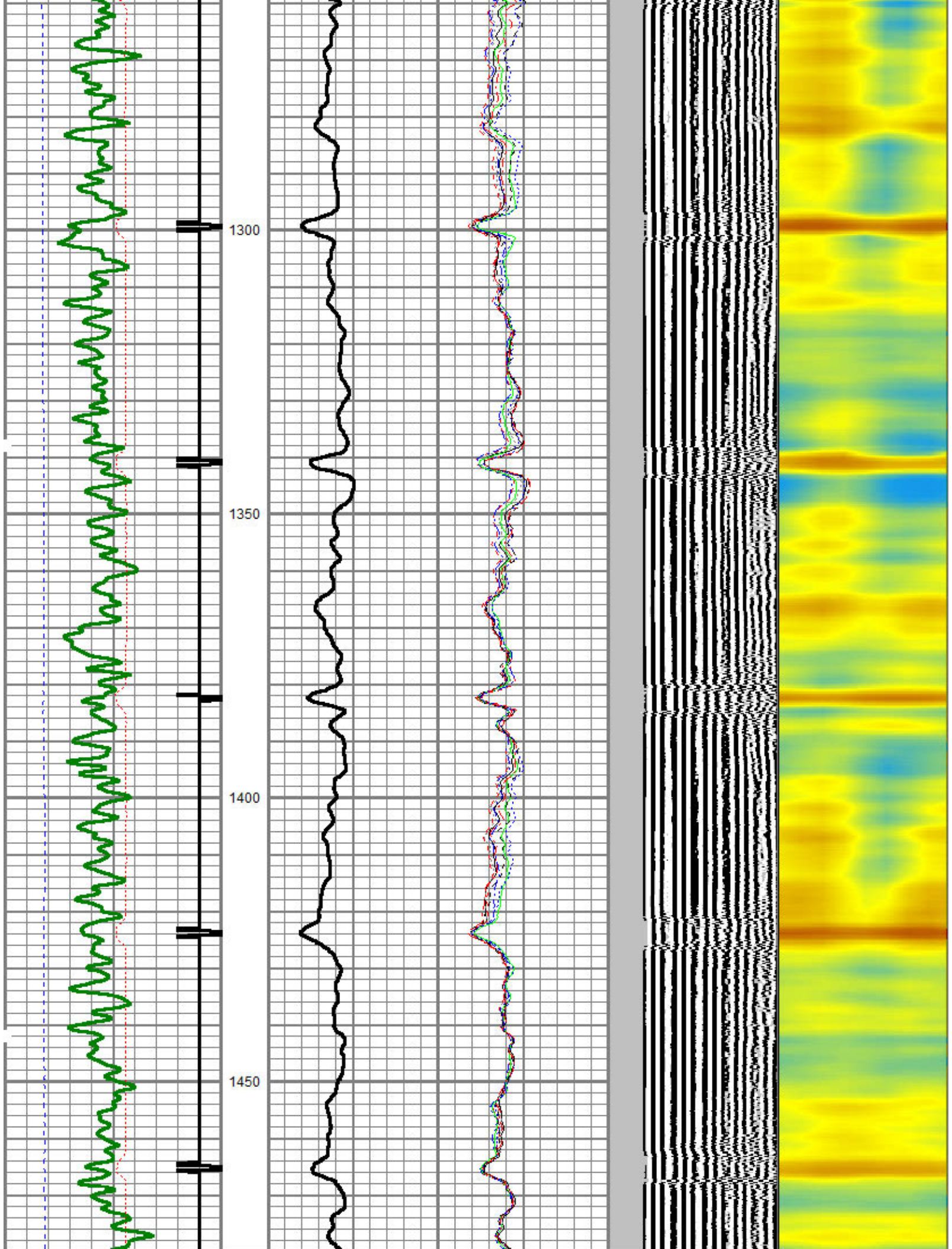




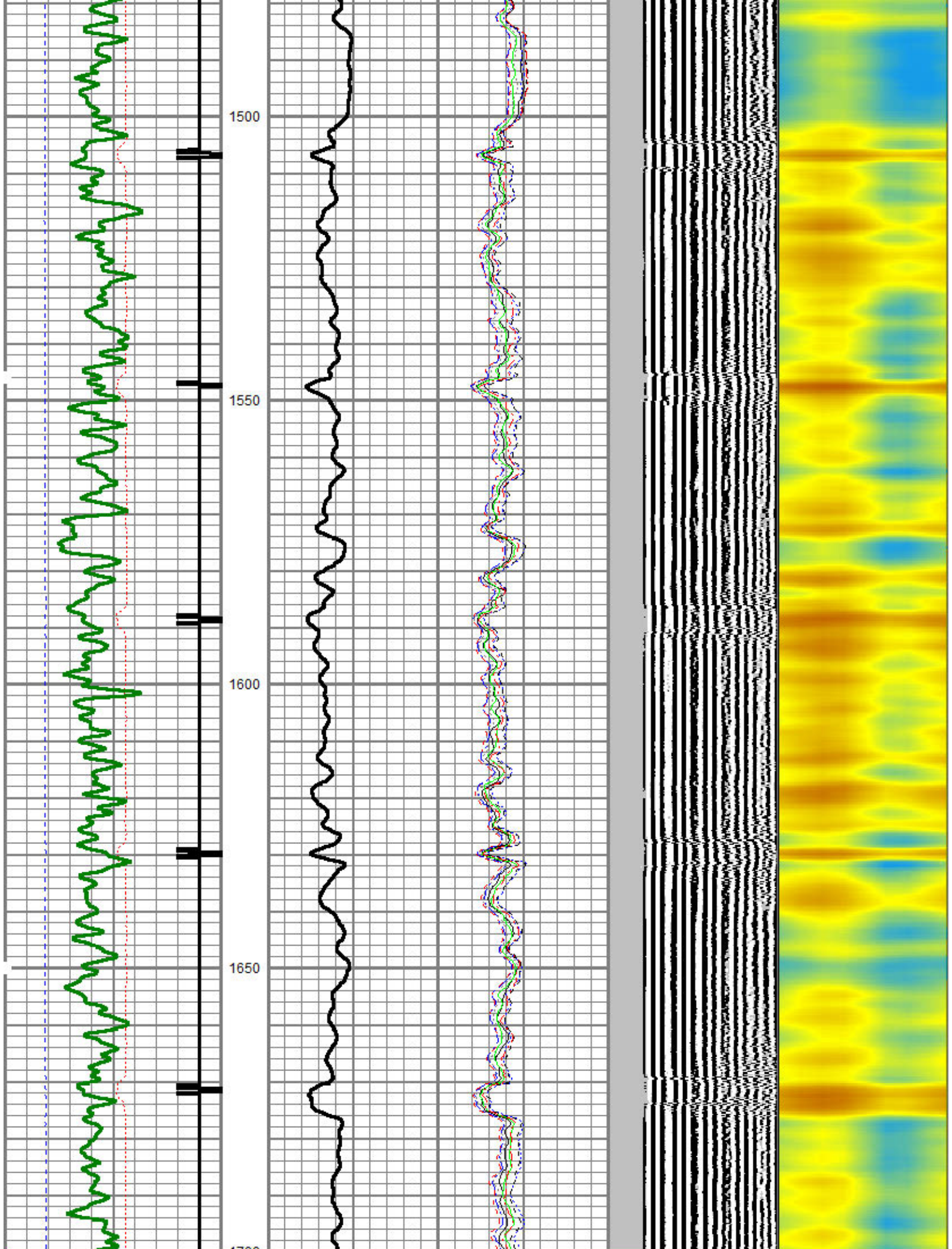




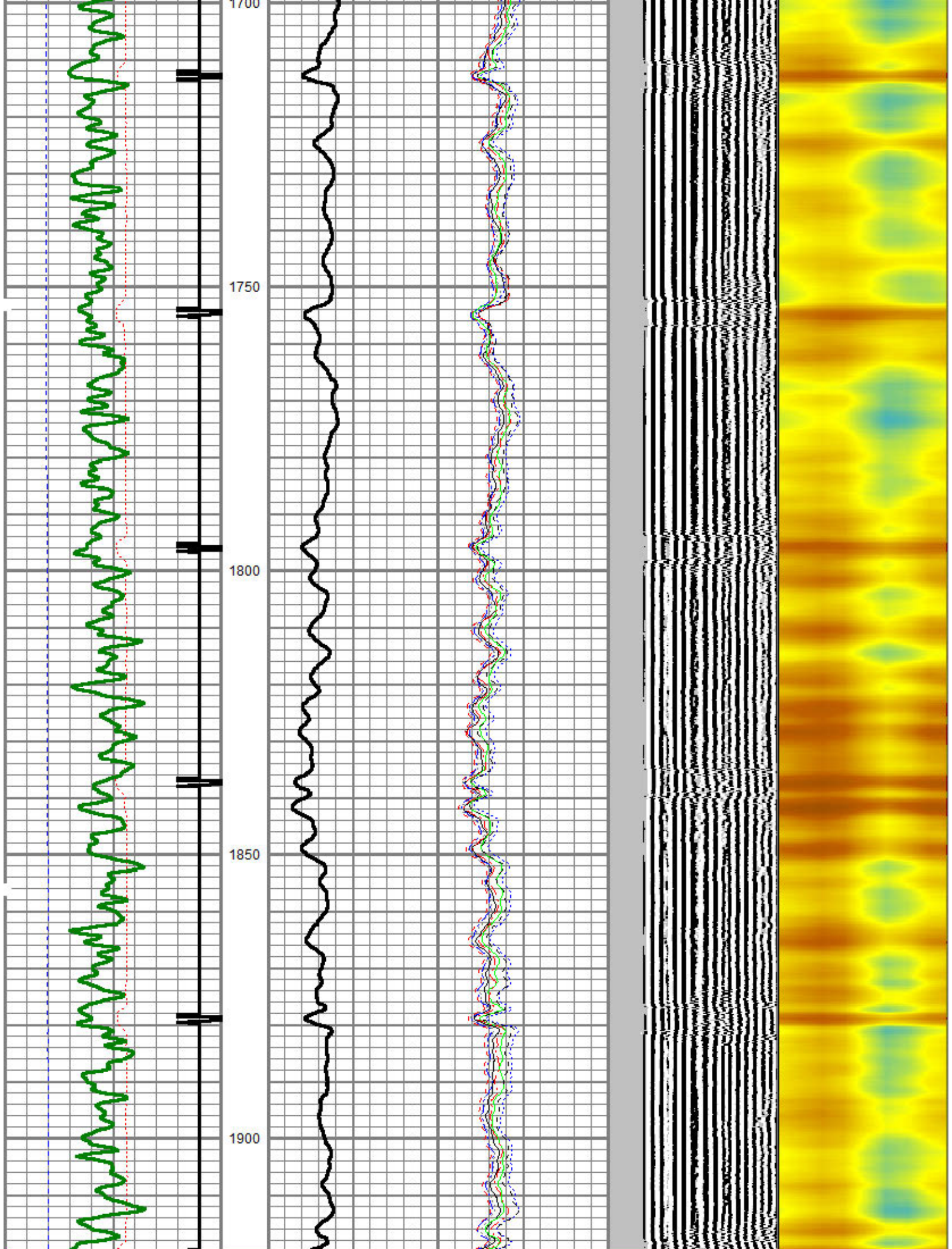




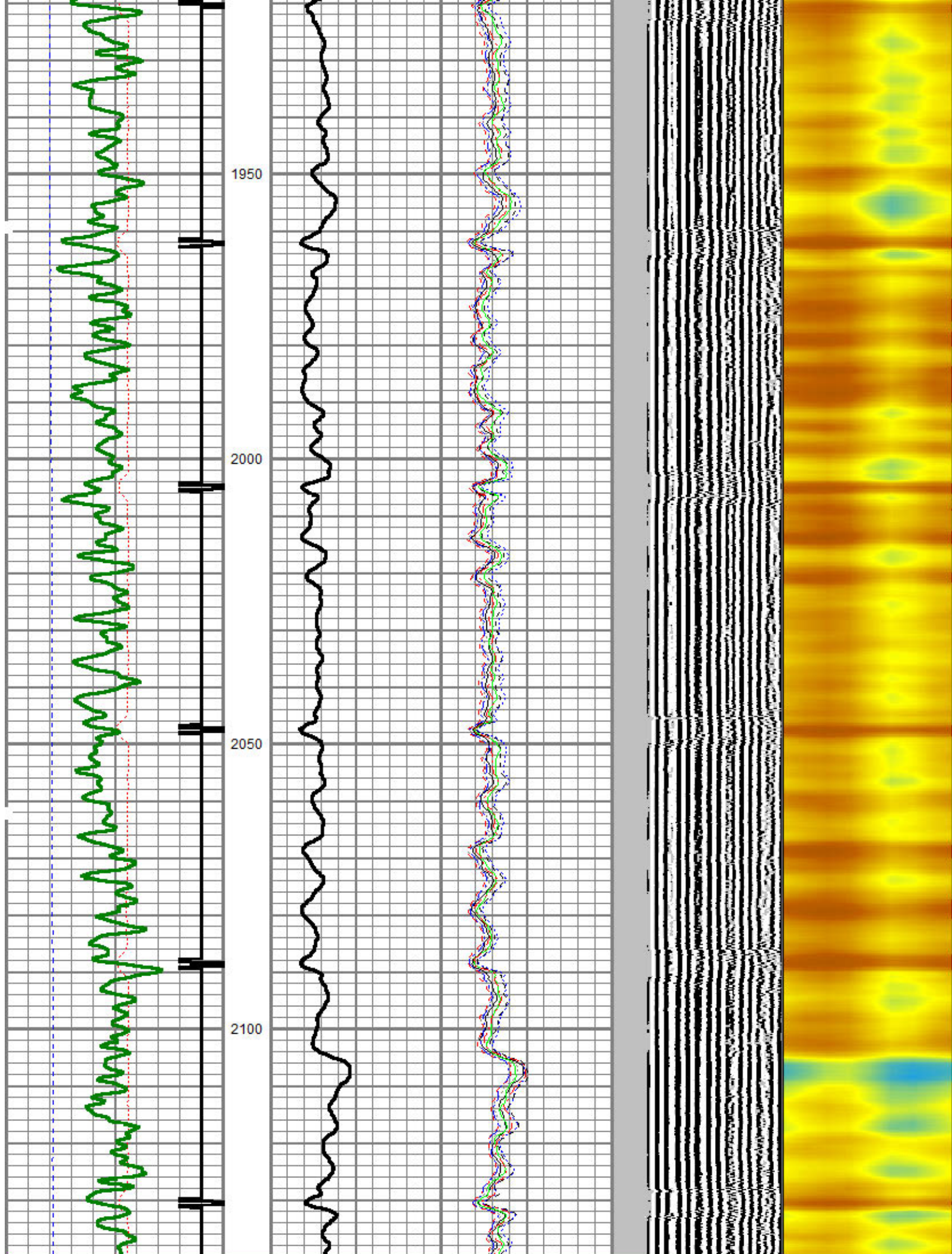




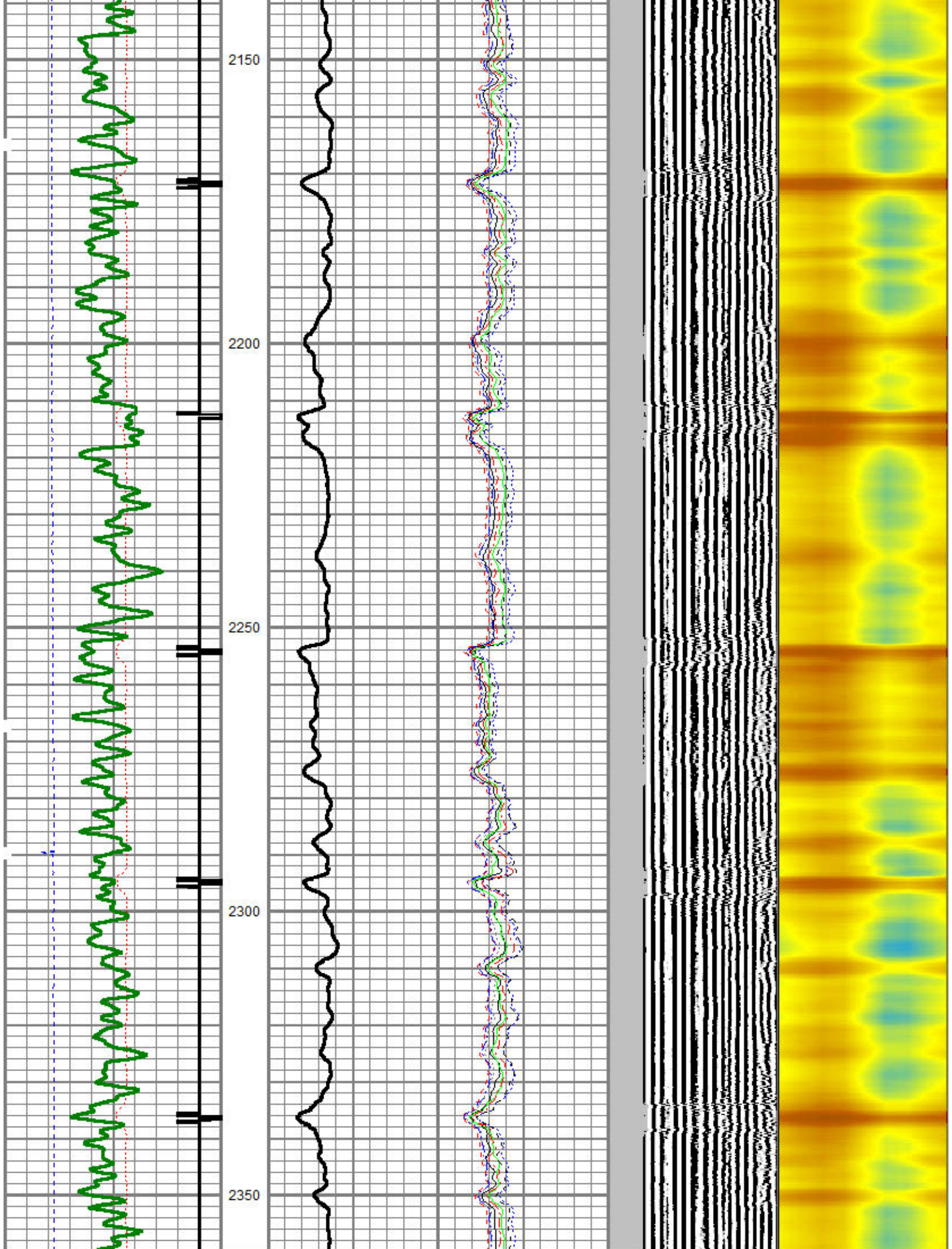




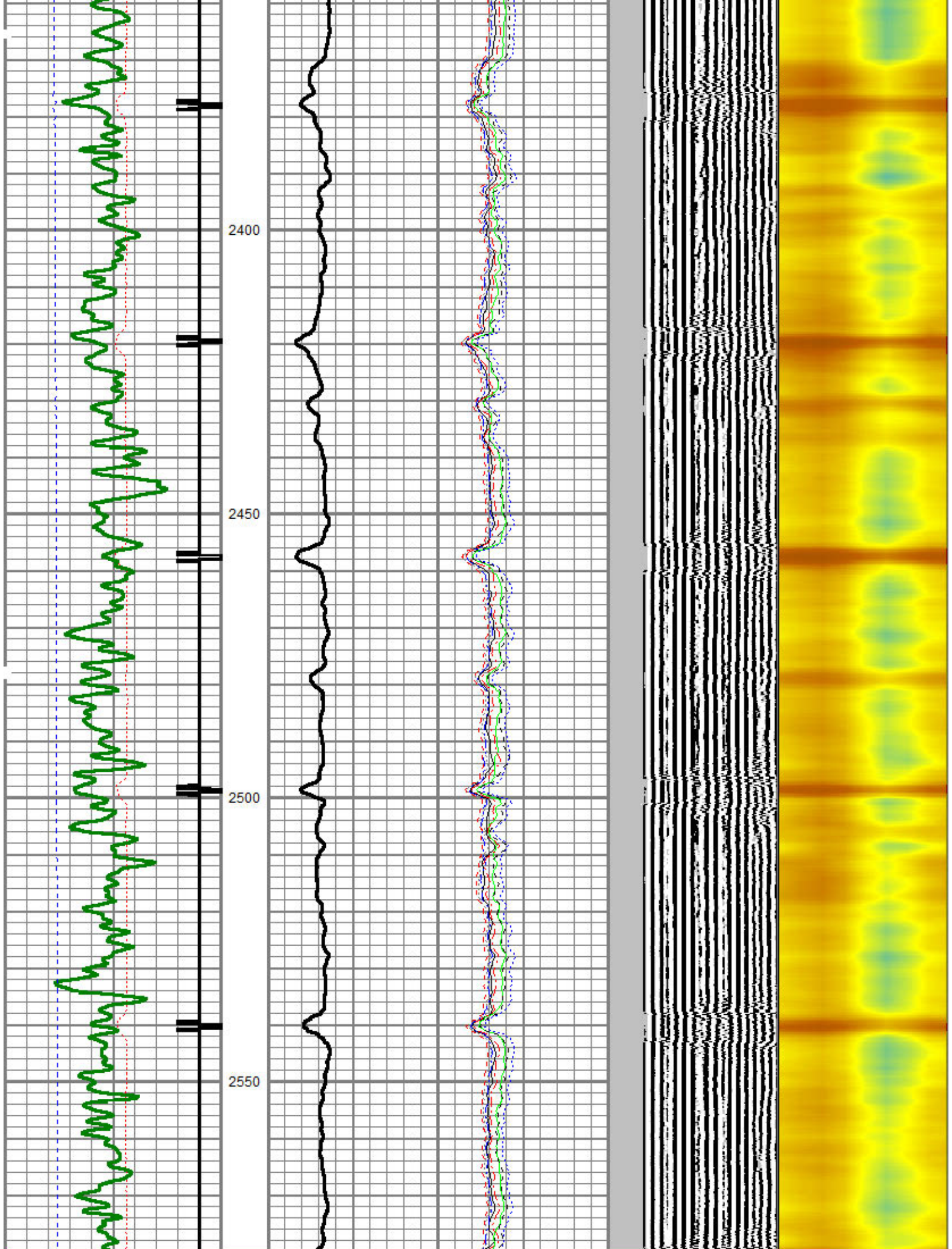




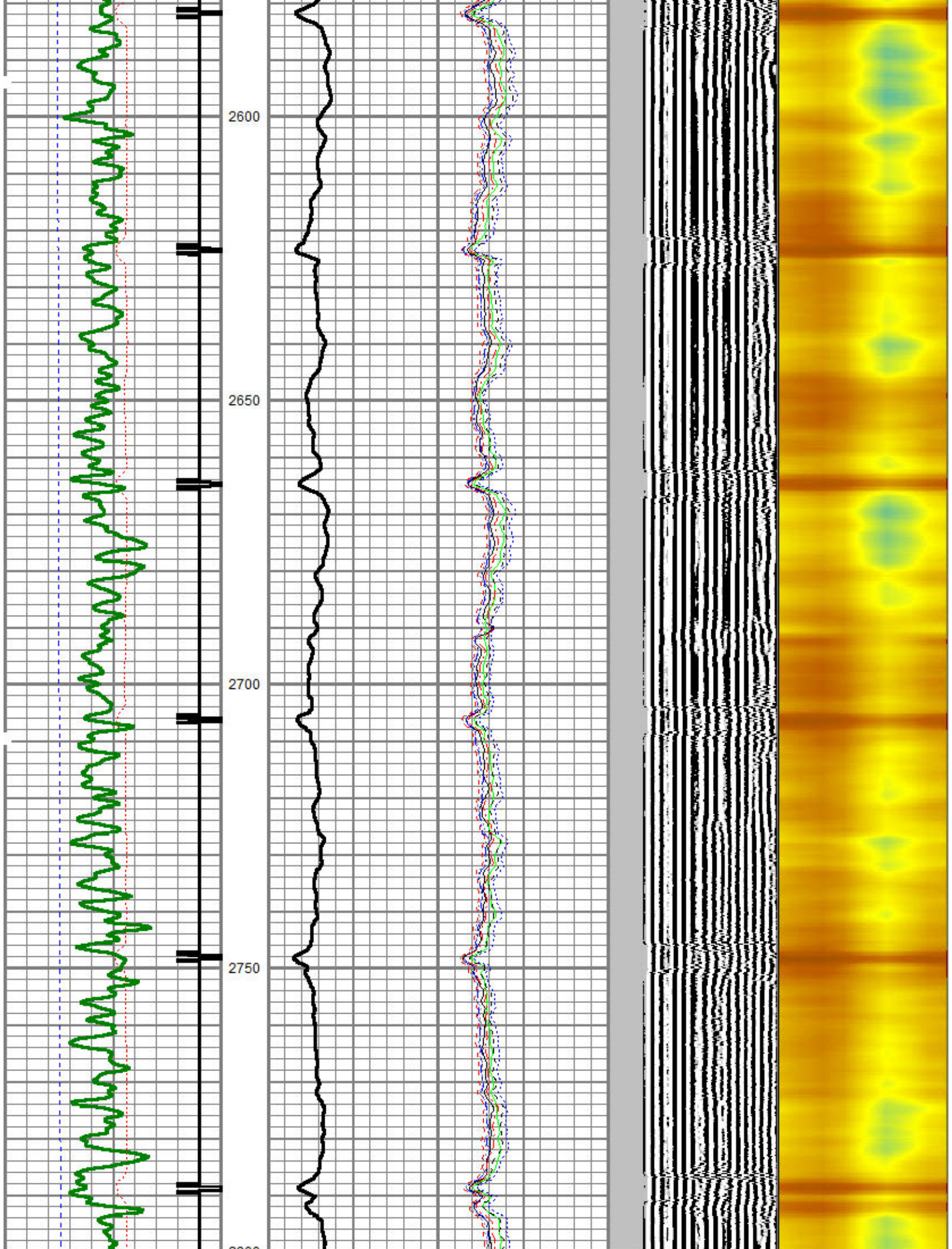




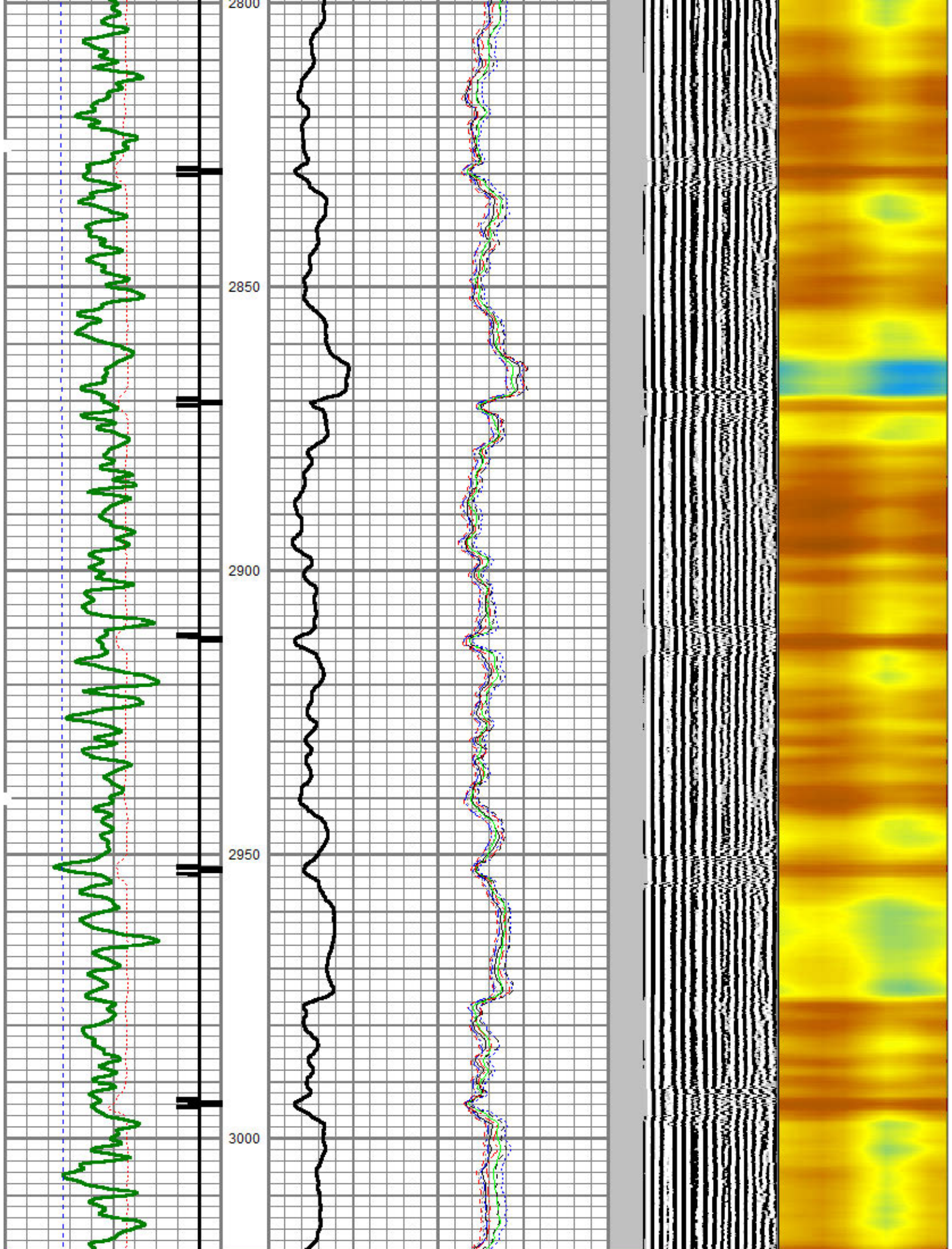




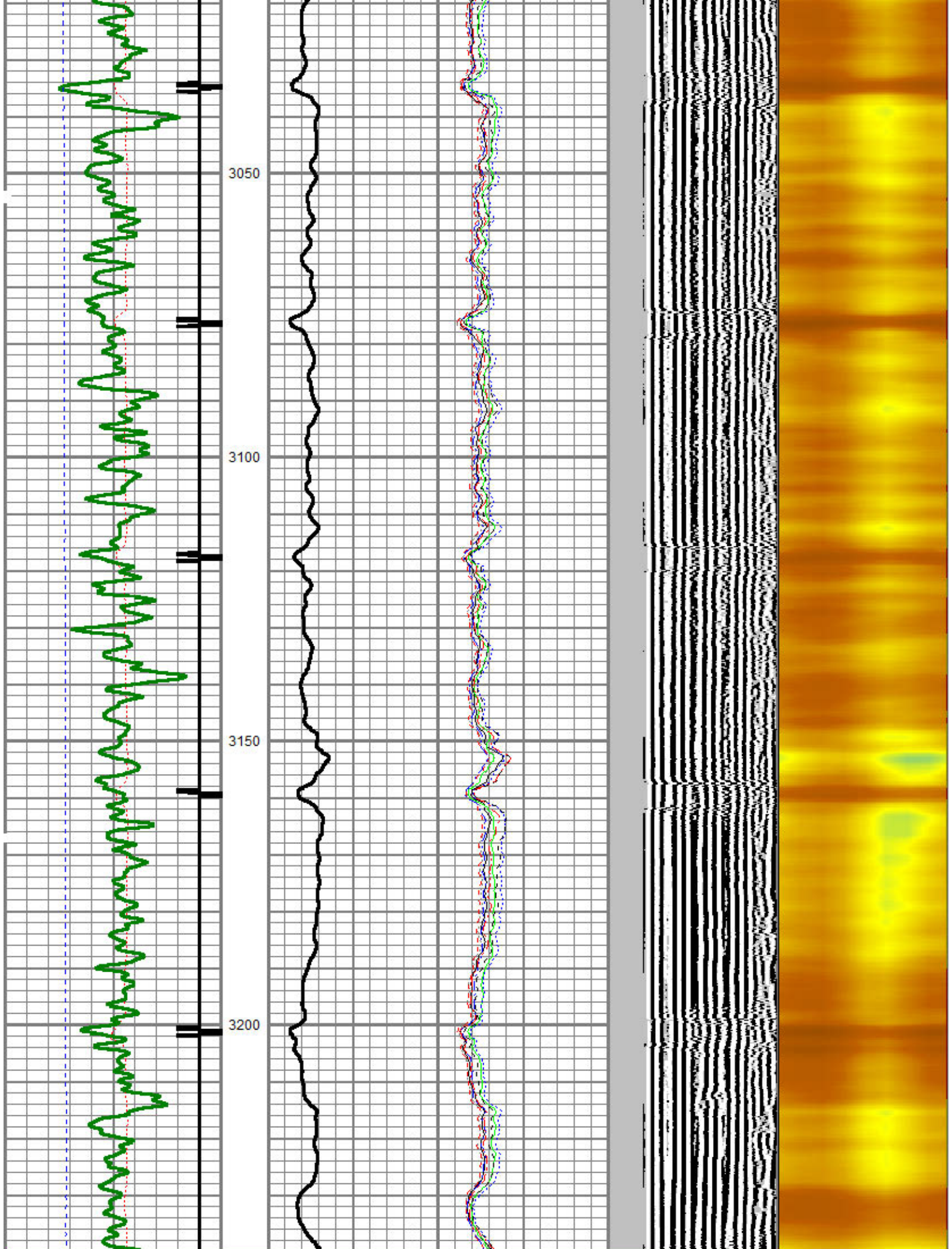




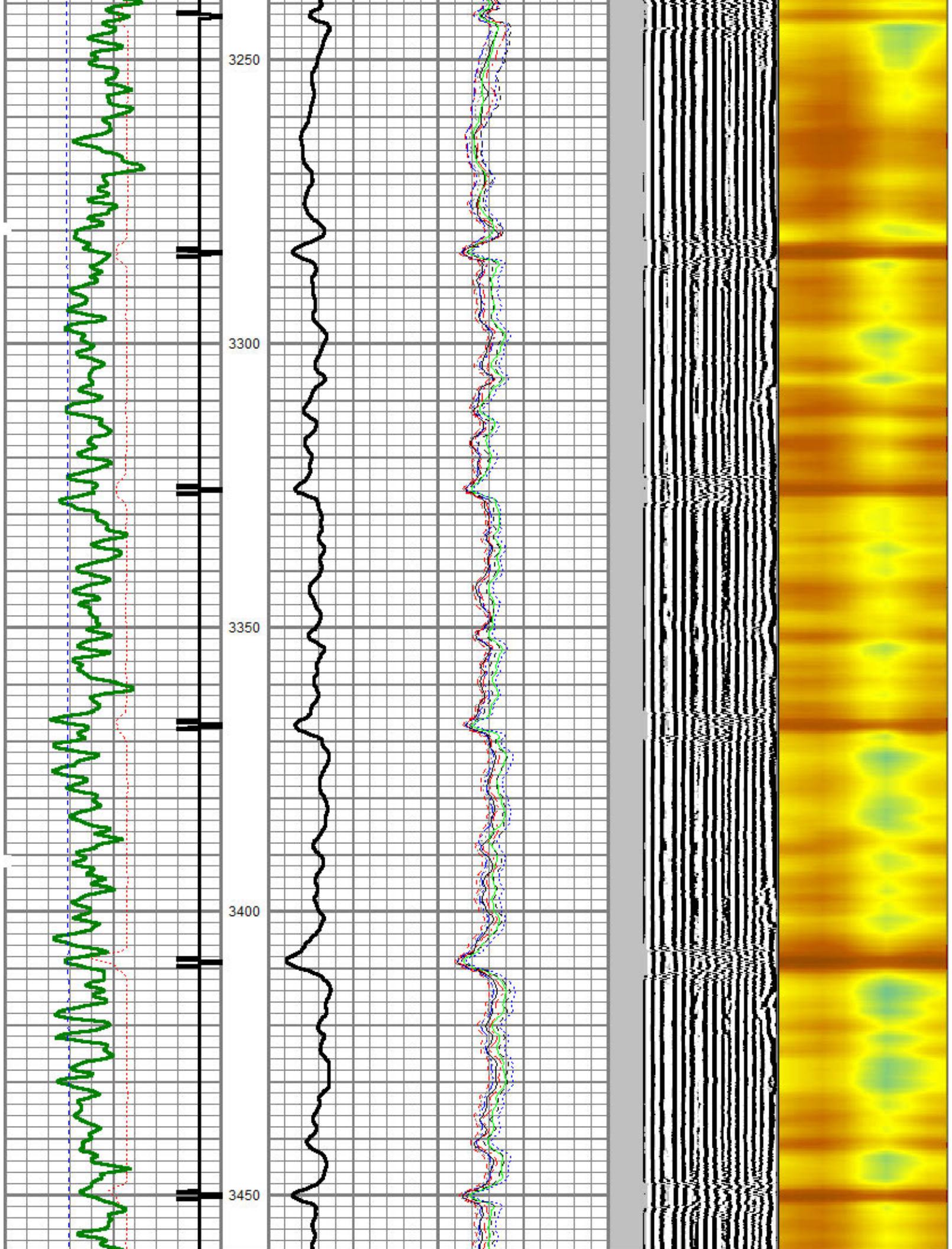




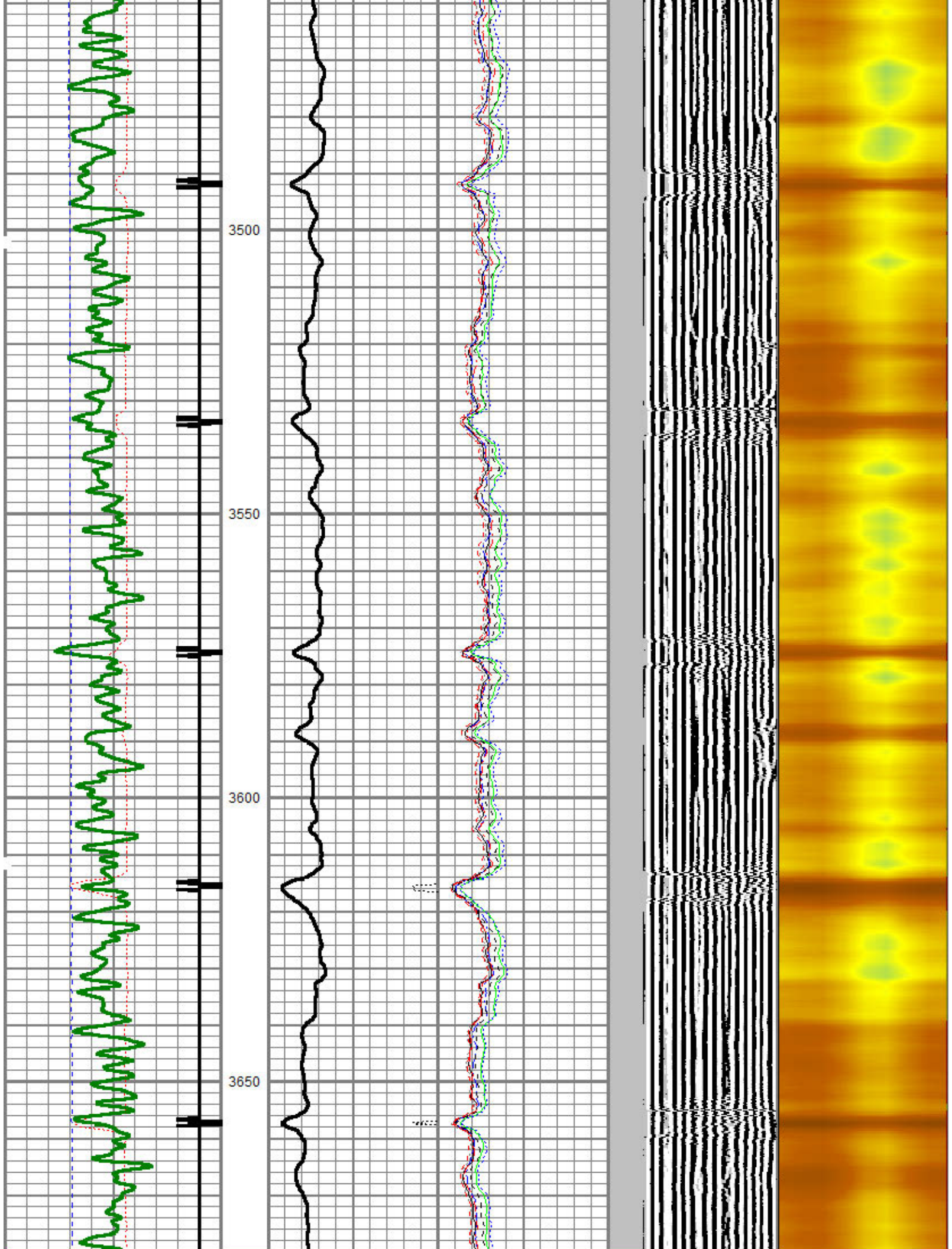




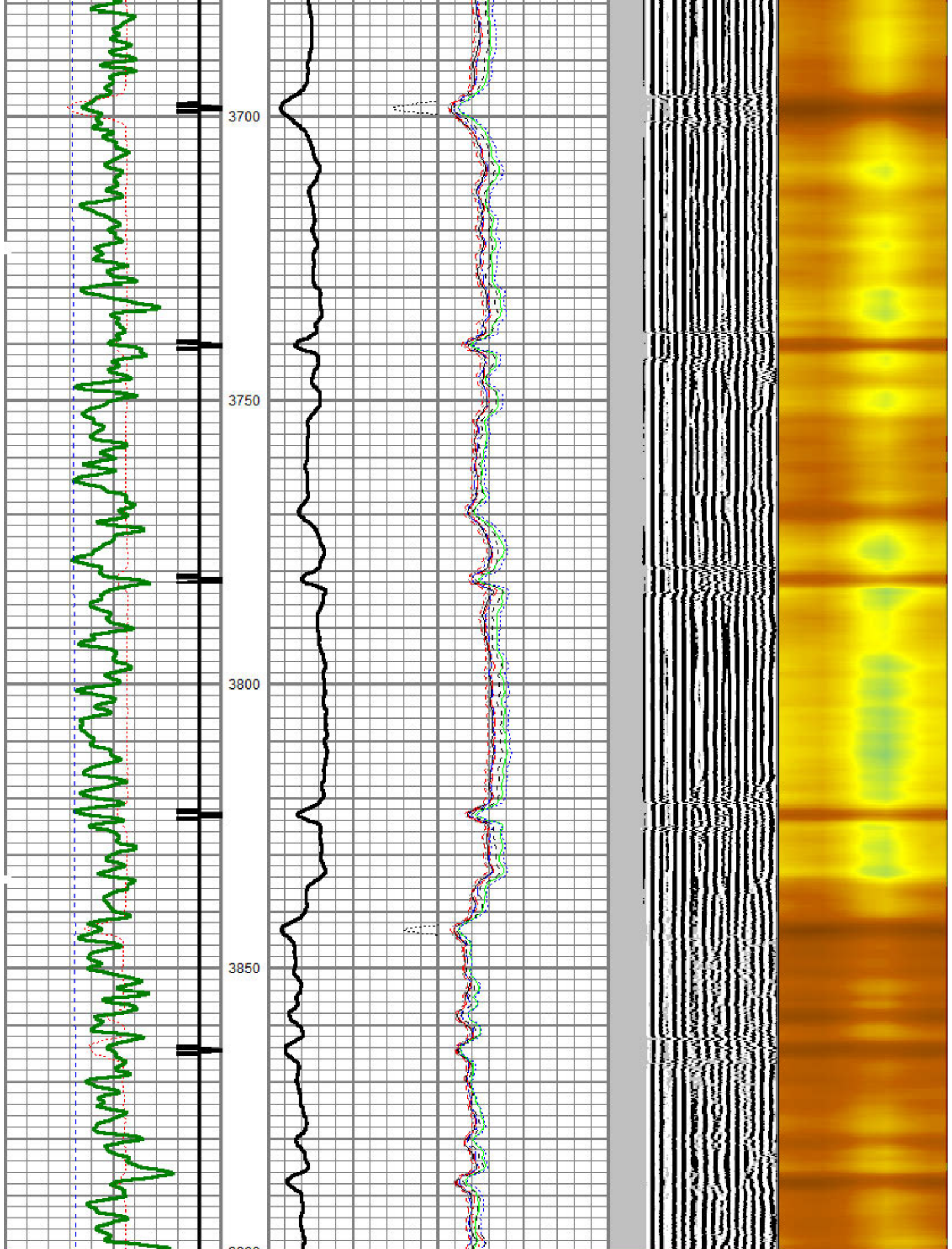




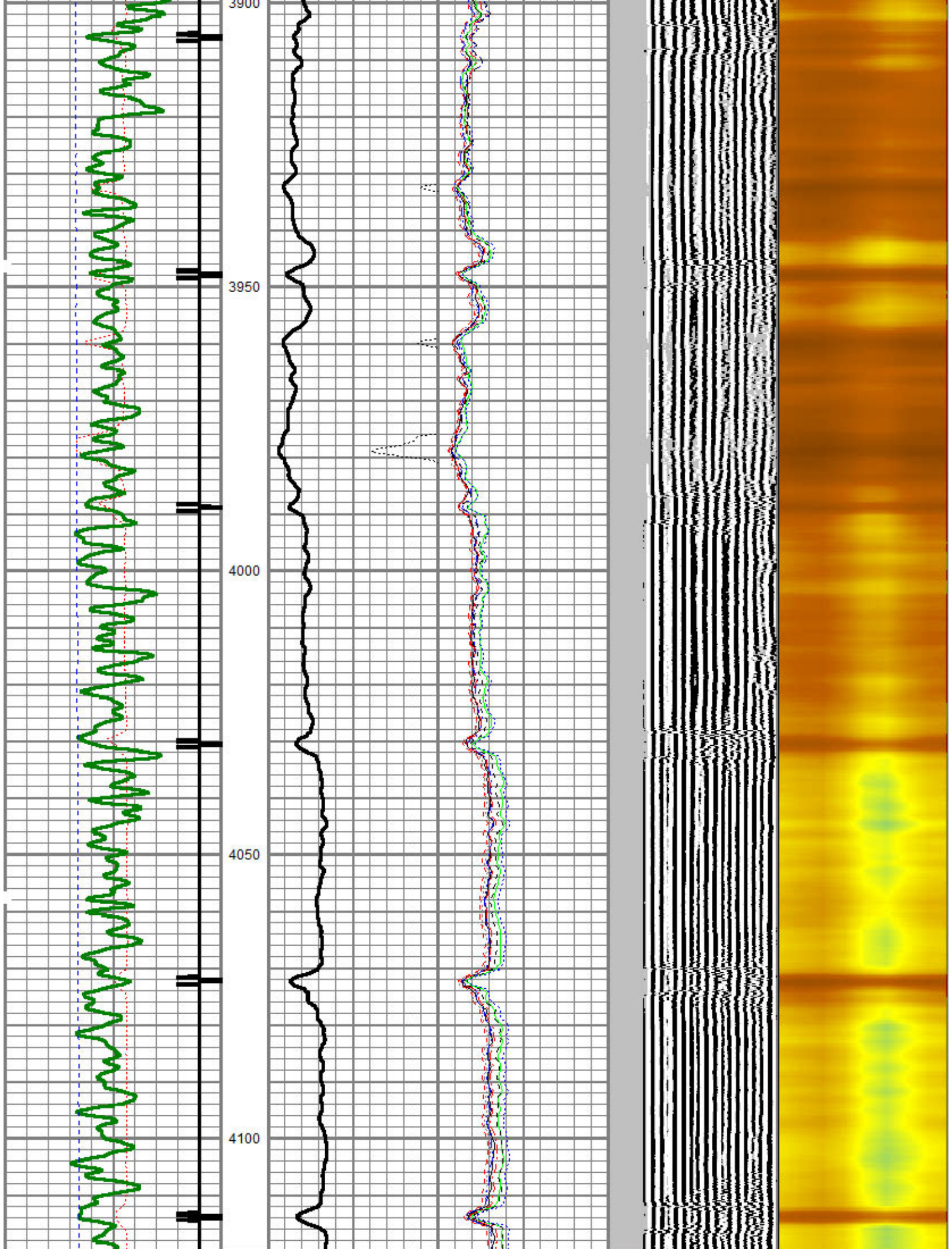




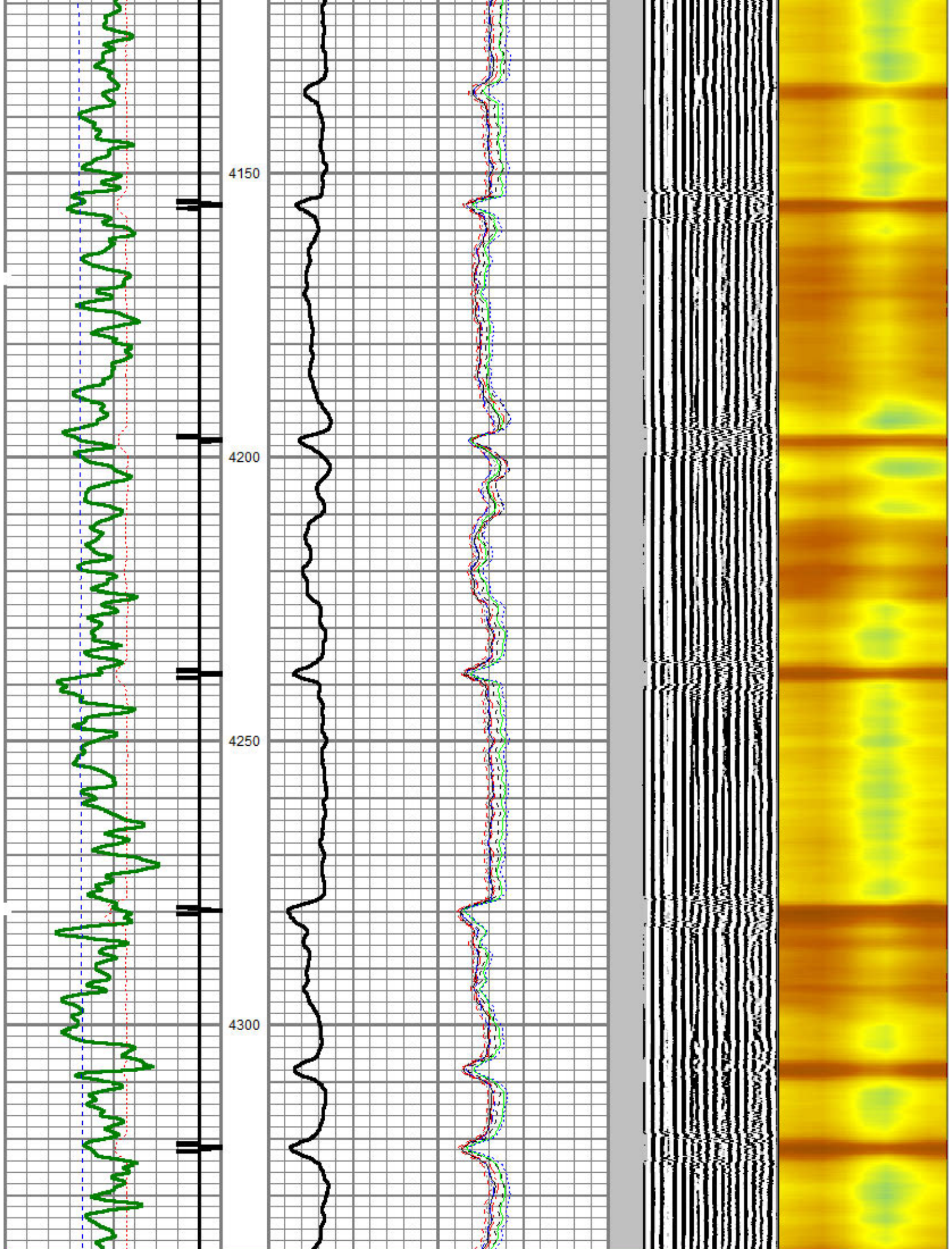




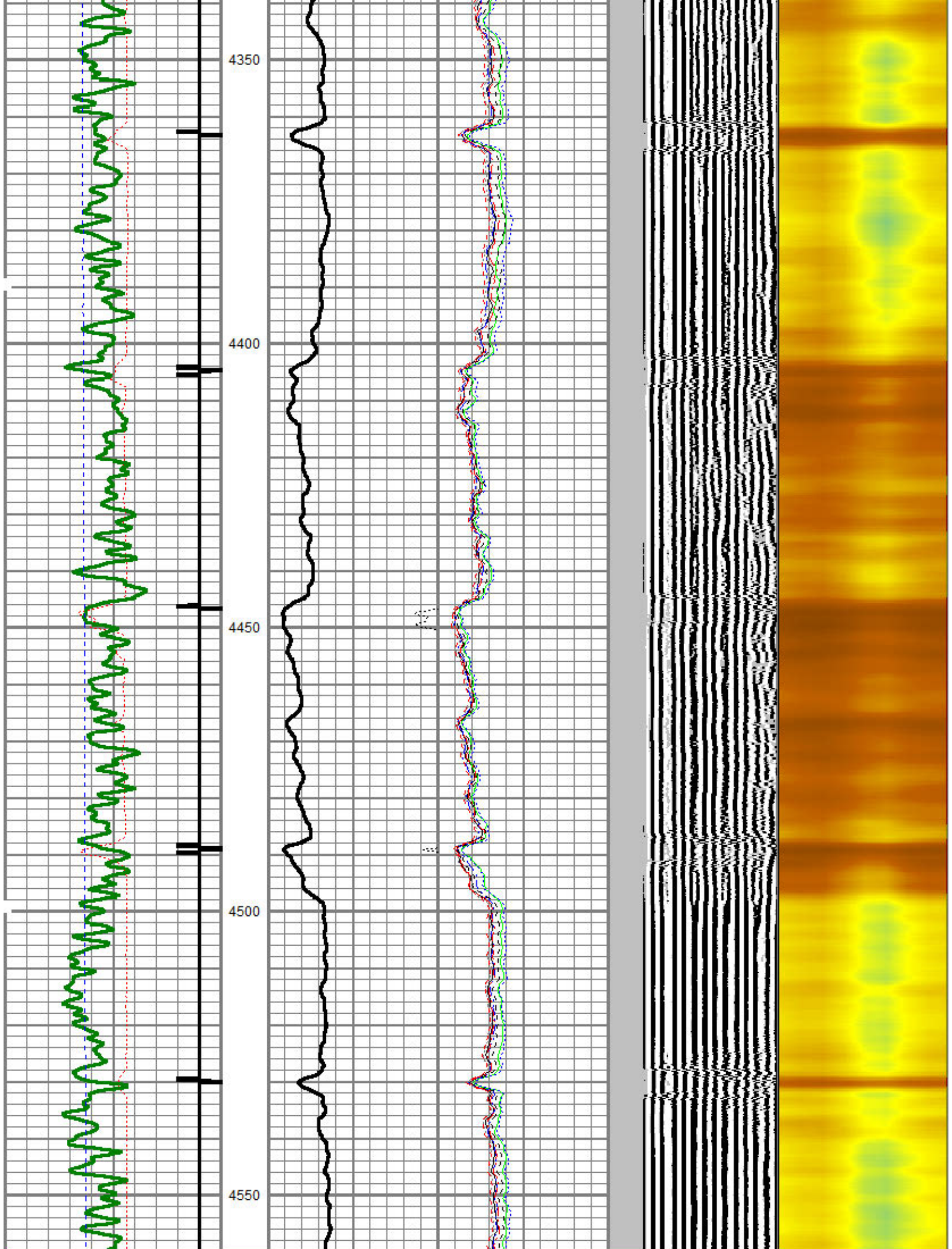




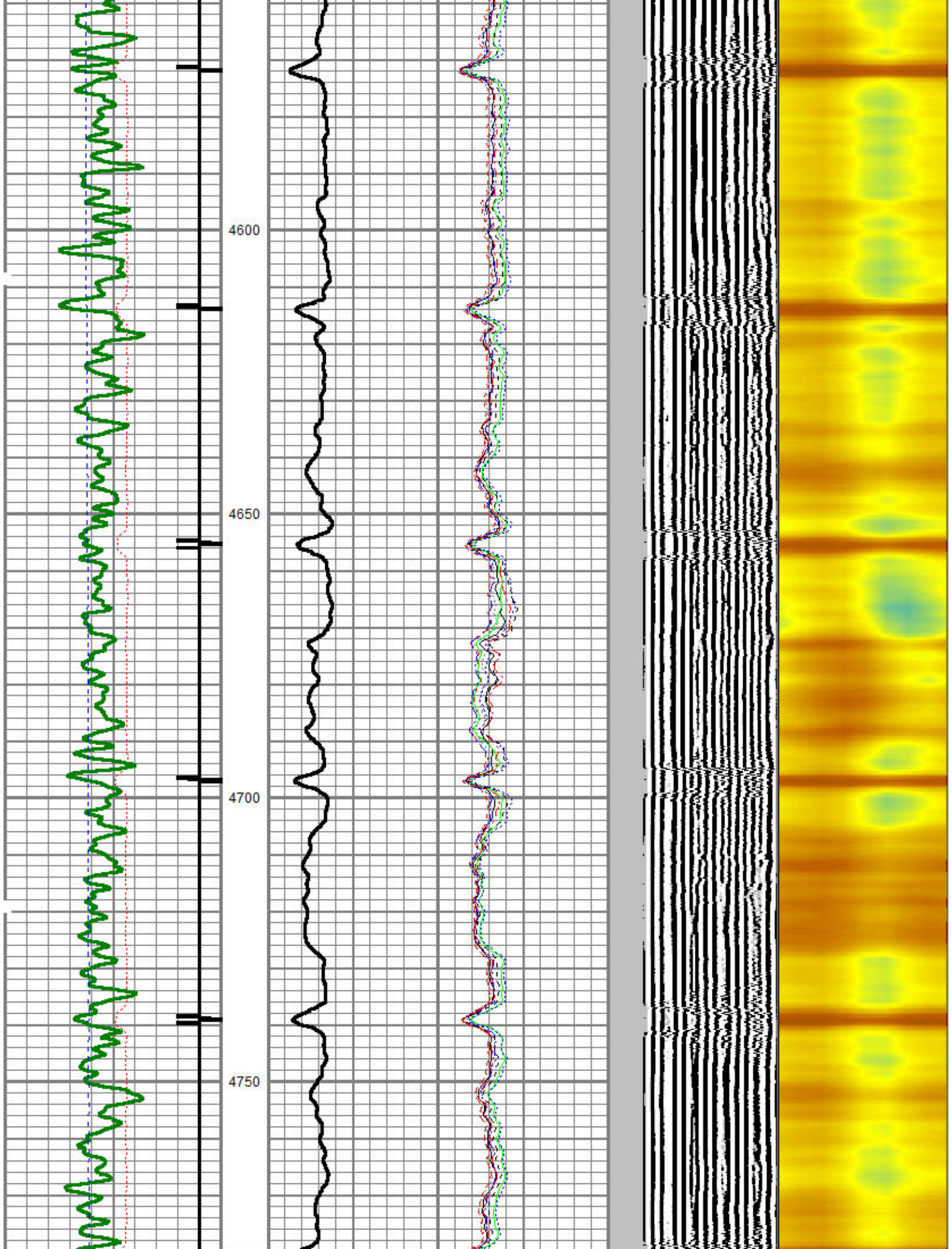




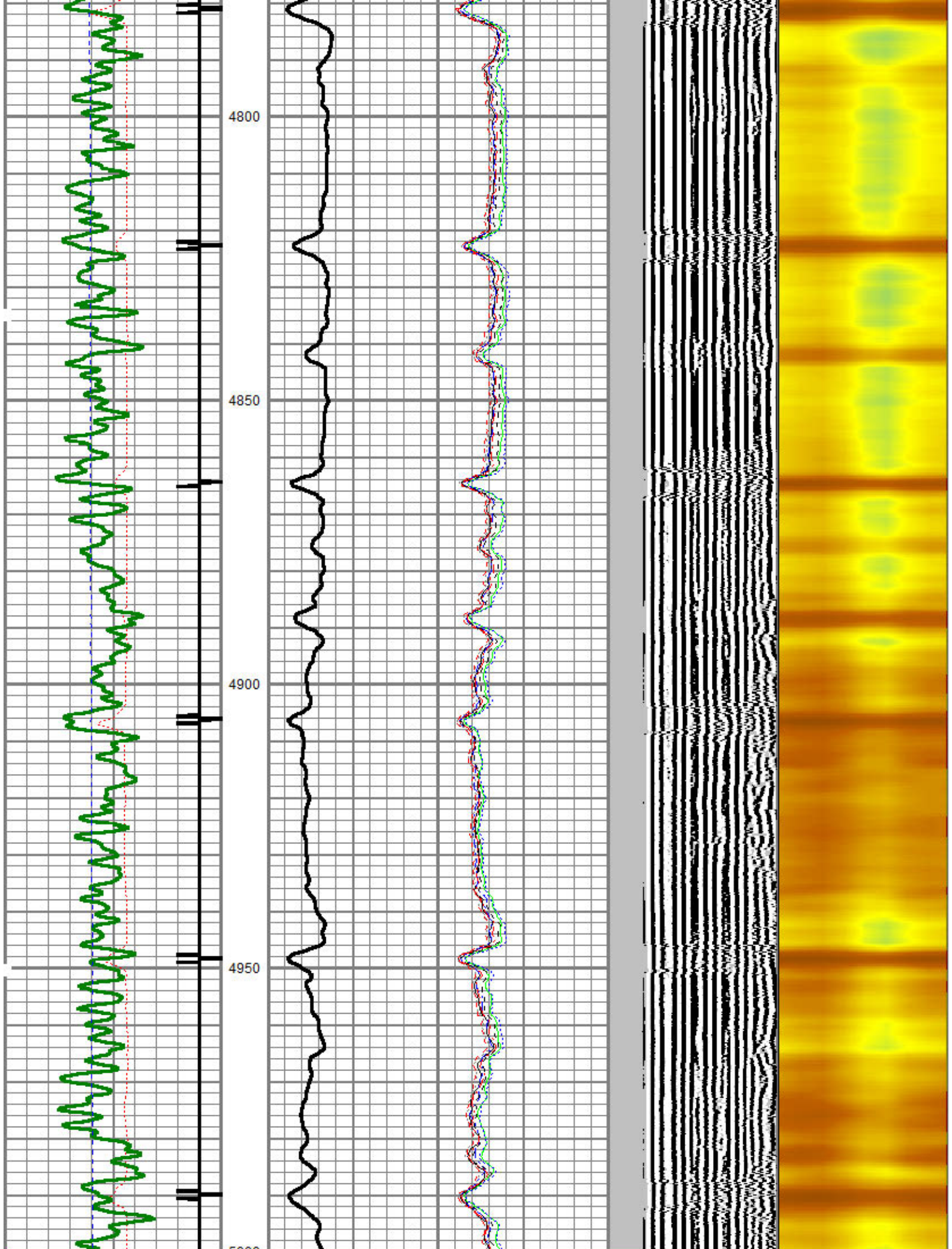




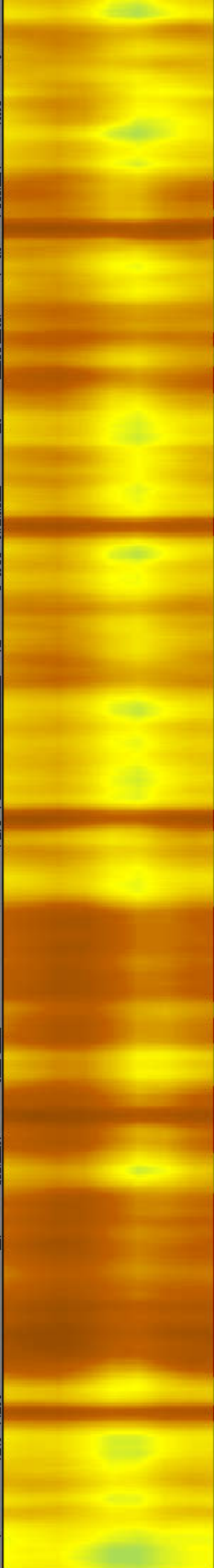
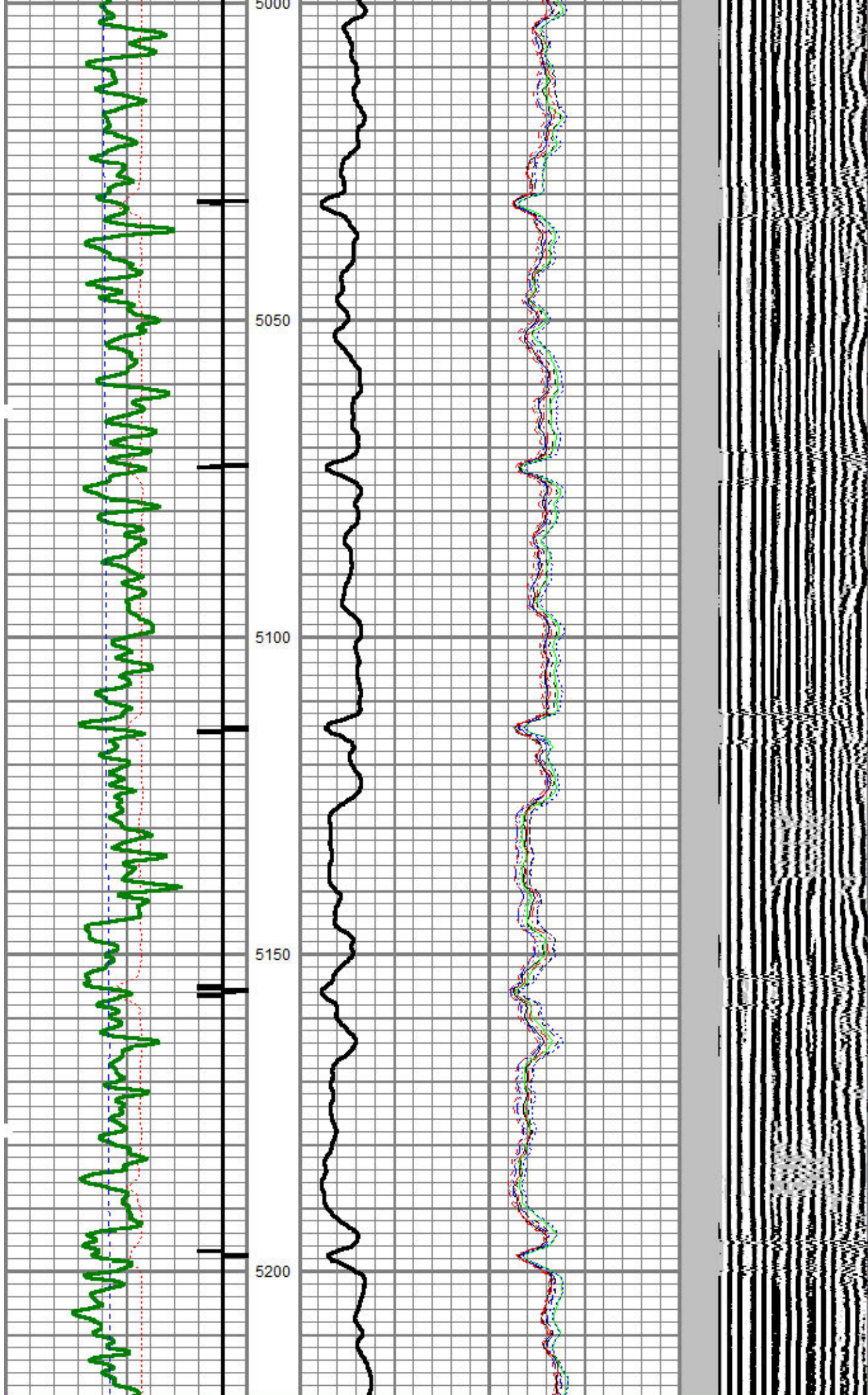




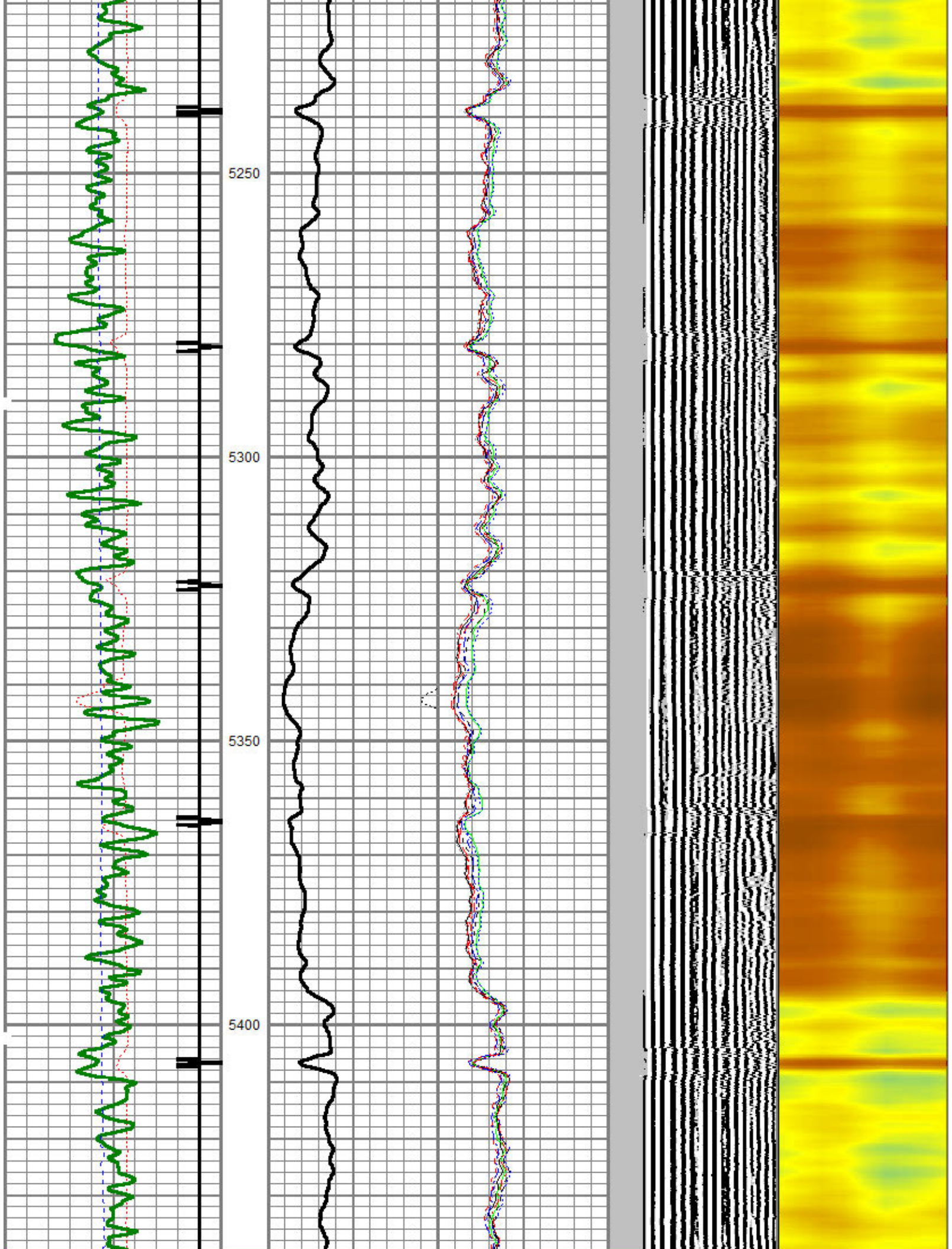




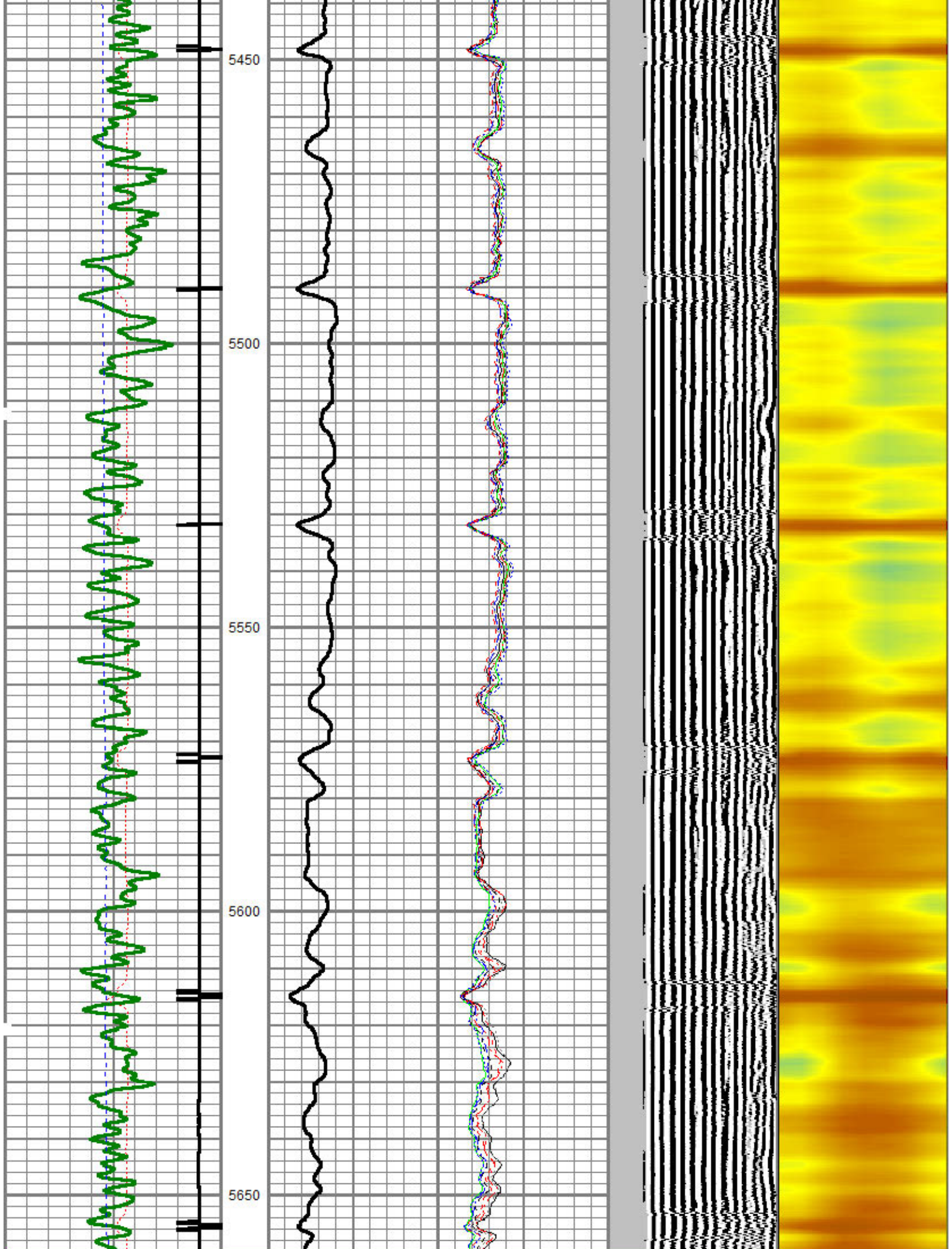




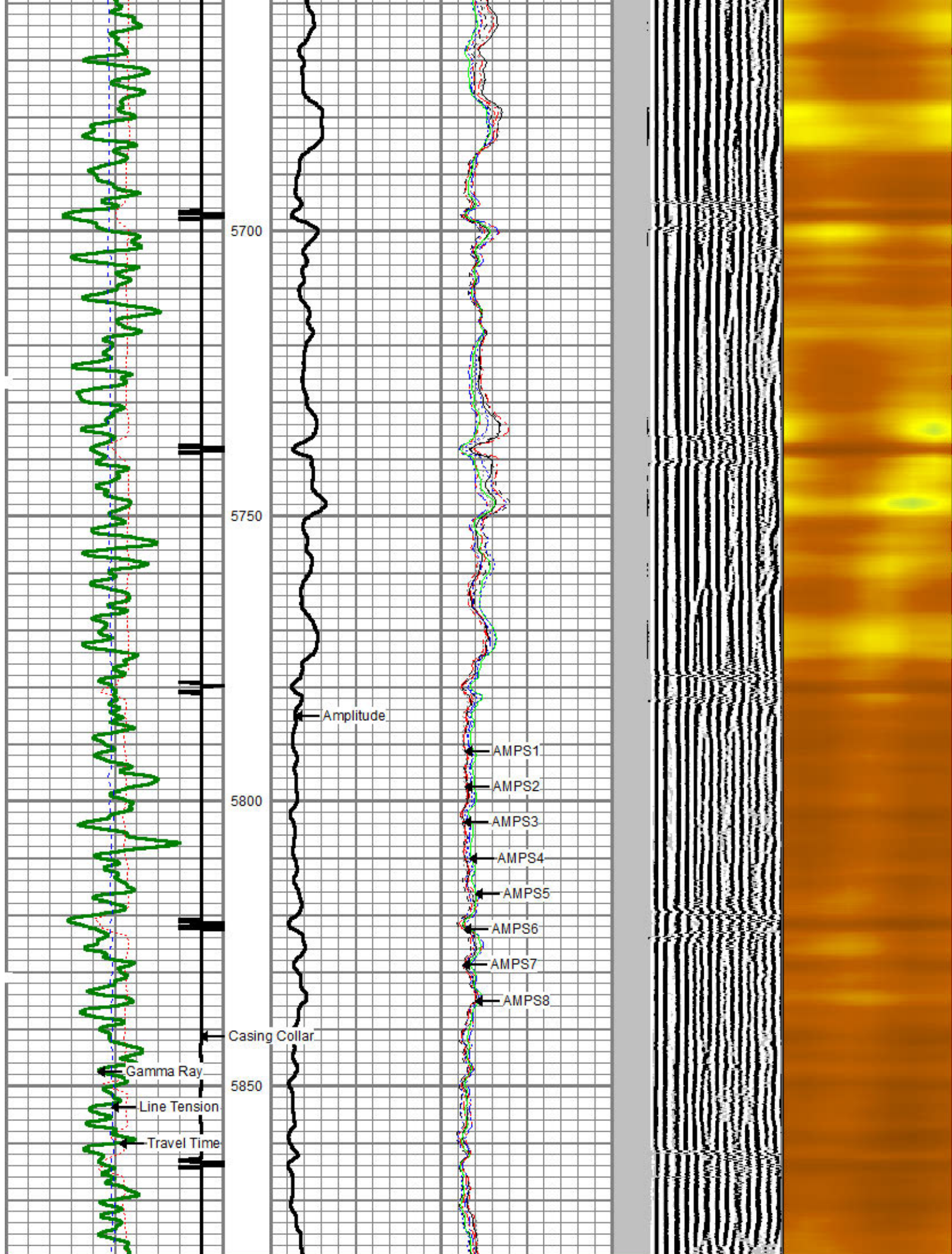




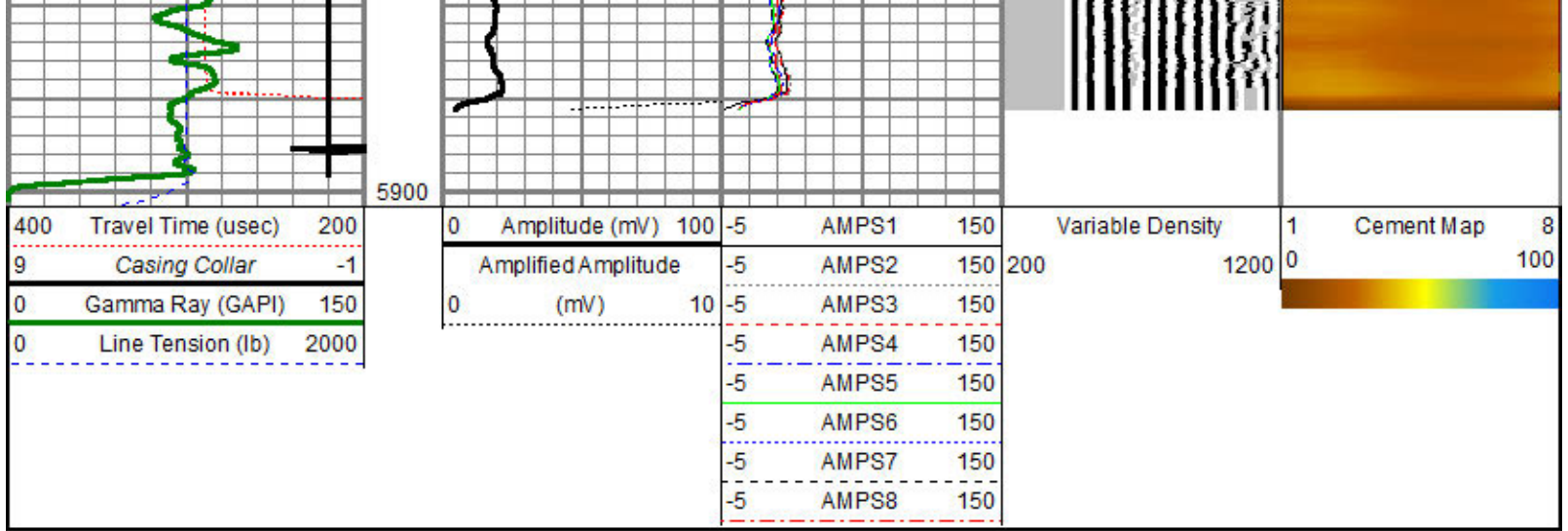






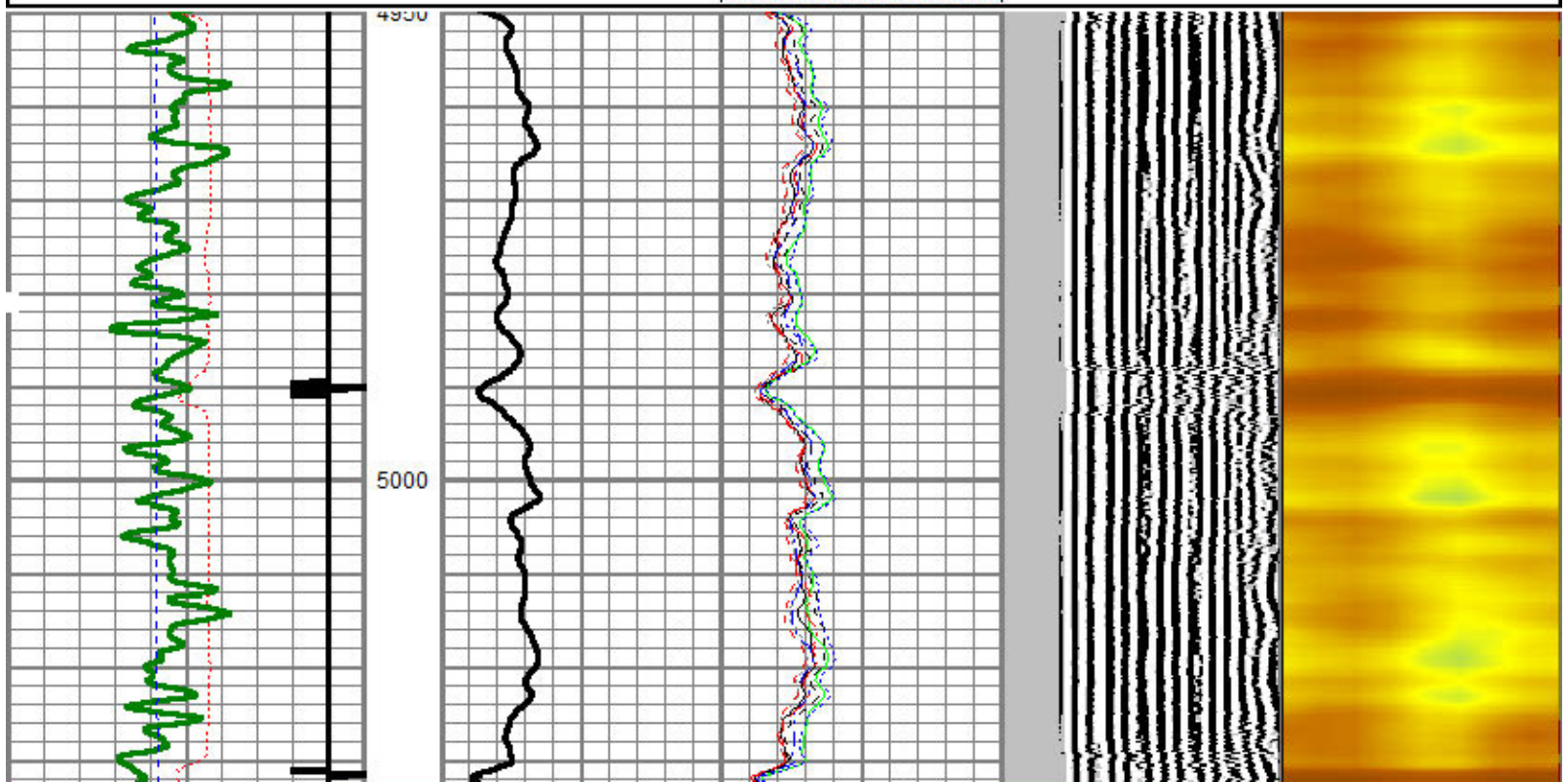
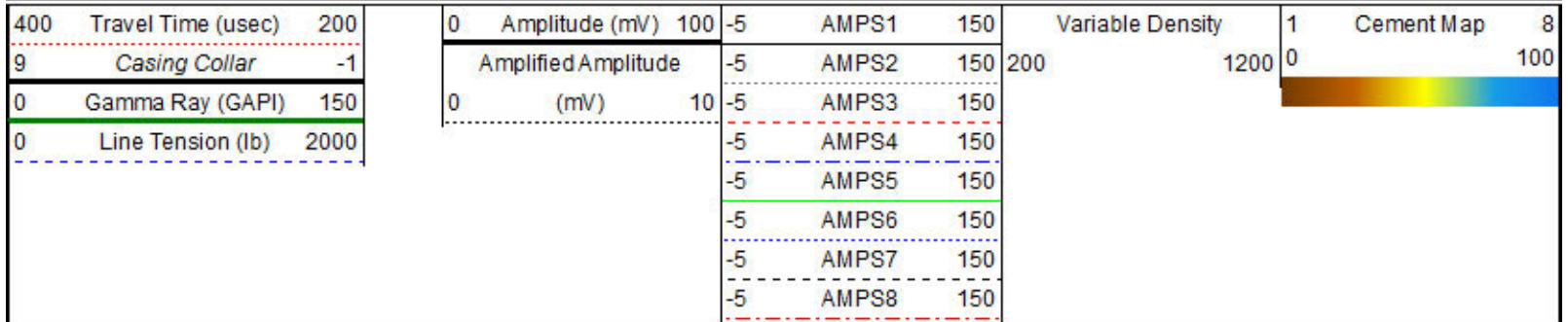




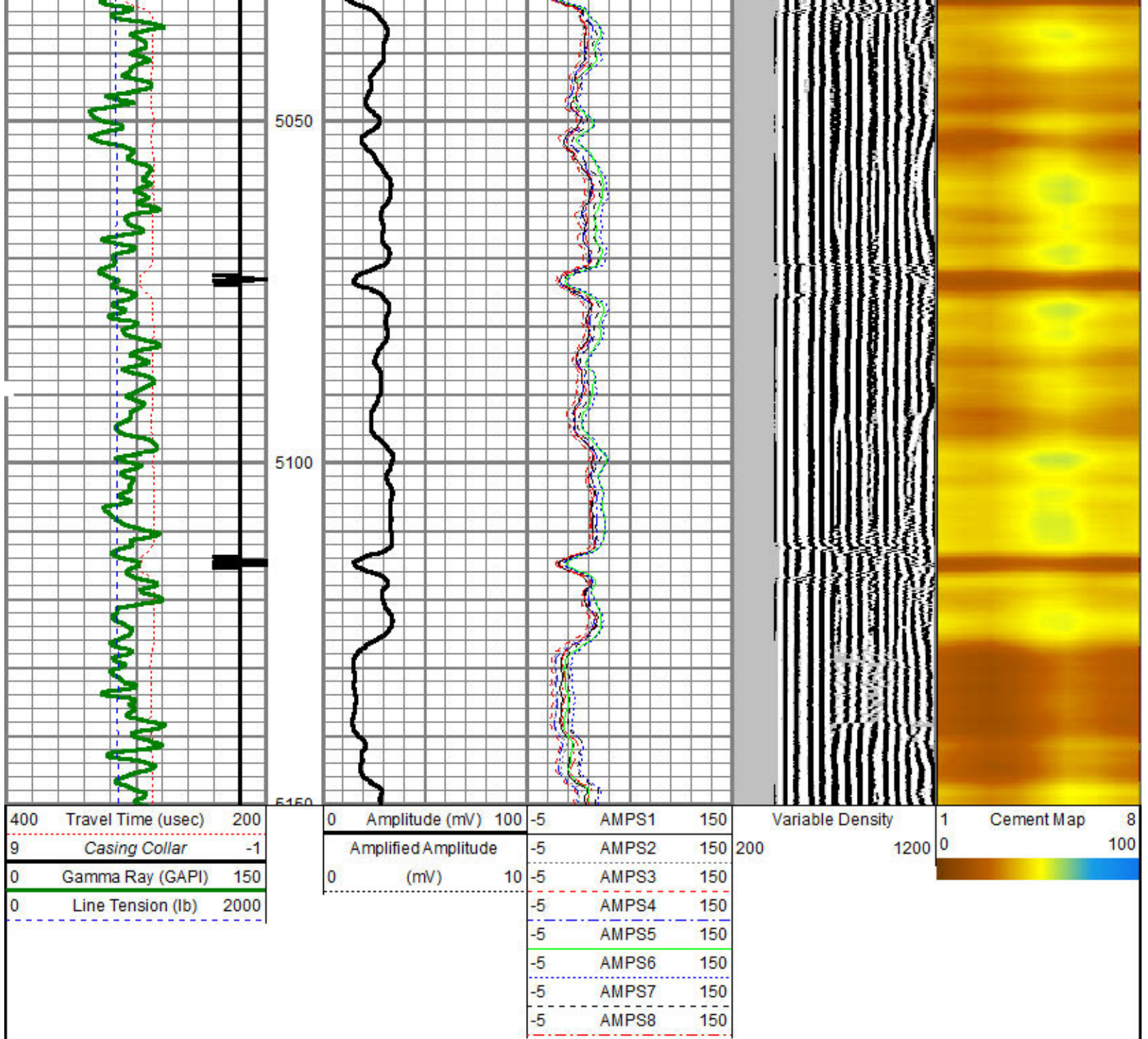


# REPEAT PASS (0 PSI)

Database File: bonanzanewpad.db  
Dataset Pathname: pass10  
Presentation Format: scbl03  
Dataset Creation: Fri Dec 19 14:23:35 2014 by Log 0  
Charted by: Depth in Feet scaled 1:240







### Calibration Report

Database File: bonanzanewpad.db  
 Dataset Pathname: pass12  
 Dataset Creation: Fri Dec 19 14:36:20 2014 by Log 0

### Gamma Ray Calibration Report

Serial Number: FW1311-4  
 Tool Model: Probe275  
 Performed: Mon Dec 15 10:00:13 2014

Calibrator Value: 1022.0 GAPI

Background Reading: 105.3 cps  
 Calibrator Reading: 1603.6 cps

Sensitivity: 0.6821 GAPI/cps

### Segmented Cement Bond Log Calibration Report



Serial Number: FW1408-26  
Tool Model: RBTC3

Calibration Casing Diameter: 5.500 in  
Calibration Depth: 231.198 ft

Master Calibration, performed Thu Dec 18 13:51:48 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.013	0.513	2.000	71.921	132.966	3.722
CAL	-0.020	1.007				
5'	-0.019	0.623	2.000	71.921	108.875	4.088
SUM						
S1	0.027	0.544	0.000	100.000	193.486	-5.199
S2	-0.014	0.515	0.000	100.000	189.117	2.671
S3	-0.016	0.550	0.000	100.000	176.891	2.779
S4	-0.020	0.569	0.000	100.000	169.751	3.390
S5	-0.020	0.552	0.000	100.000	174.588	3.555
S6	-0.019	0.518	0.000	100.000	186.432	3.516
S7	-0.017	0.495	0.000	100.000	195.485	3.326
S8	-0.015	0.487	0.000	100.000	199.048	3.059

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.020	1.007	1.000	0.000


Air Zero Calibration, performed Mon Dec 15 09:56:27 2014:

	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	

Temperature Calibration Report

Serial Number: FW1408-26  
Tool Model: RBTC3  
Performed: Sun Jun 13 13:33:21 1993

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
						









Company	BONANZA CREEK ENERGY
Well	STATE PRONGHORN U-32-31 MRLNB
Field	WATTENBERG
County	WELD
State	COLORADO