



Radial Cement Bond
Variable Density Log
W/ Gamma Ray/CCL

Company Carrizo Oil & Gas		Company Carrizo Oil & Gas	
Well Jones #18-14-N-59		Well Jones #18-14-N-59	
Field Niobrara Shale		Field Niobrara Shale	
County Weld		County Weld	
State Colorado		State Colorado	
Location:		API # : -	
SEC - TWP - RGE -		Other Services	
Permanent Datum		Ground Level	
Log Measured From		Elevation -	
Drilling Measured From		K.B. -	
		D.F. -	
		G.L. -	
Date	12-Oct-2012		
Run Number	1		
Depth Driller	10430'		
Depth Logger	6709'		
Bottom Logged Interval	6703'		
Top Log Interval	Surface		
Open Hole Size	8 5/8"		
Type Fluid	Water		
Density / Viscosity	-		
Max. Recorded Temp.	-		
Estimated Cement Top	470'		
Time Well Ready	1000		
Time Logger on Bottom	1130		
Equipment Number	12027		
Location	Brighton, CO		
Recorded By	R. Grissom		
Witnessed By	K. Williams		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	7"	23#	Surface
Prot. String			
Production String	4.5"	11.6#	6127'
Liner			
Short Joint			6635'

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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

Legal Description And Elevations Not Available

Short Joint at 6635' to 6648.5'

Log Has Not Been Correlated


Your Crew for Today. D. Meurer, B. Monroe & C.Rall

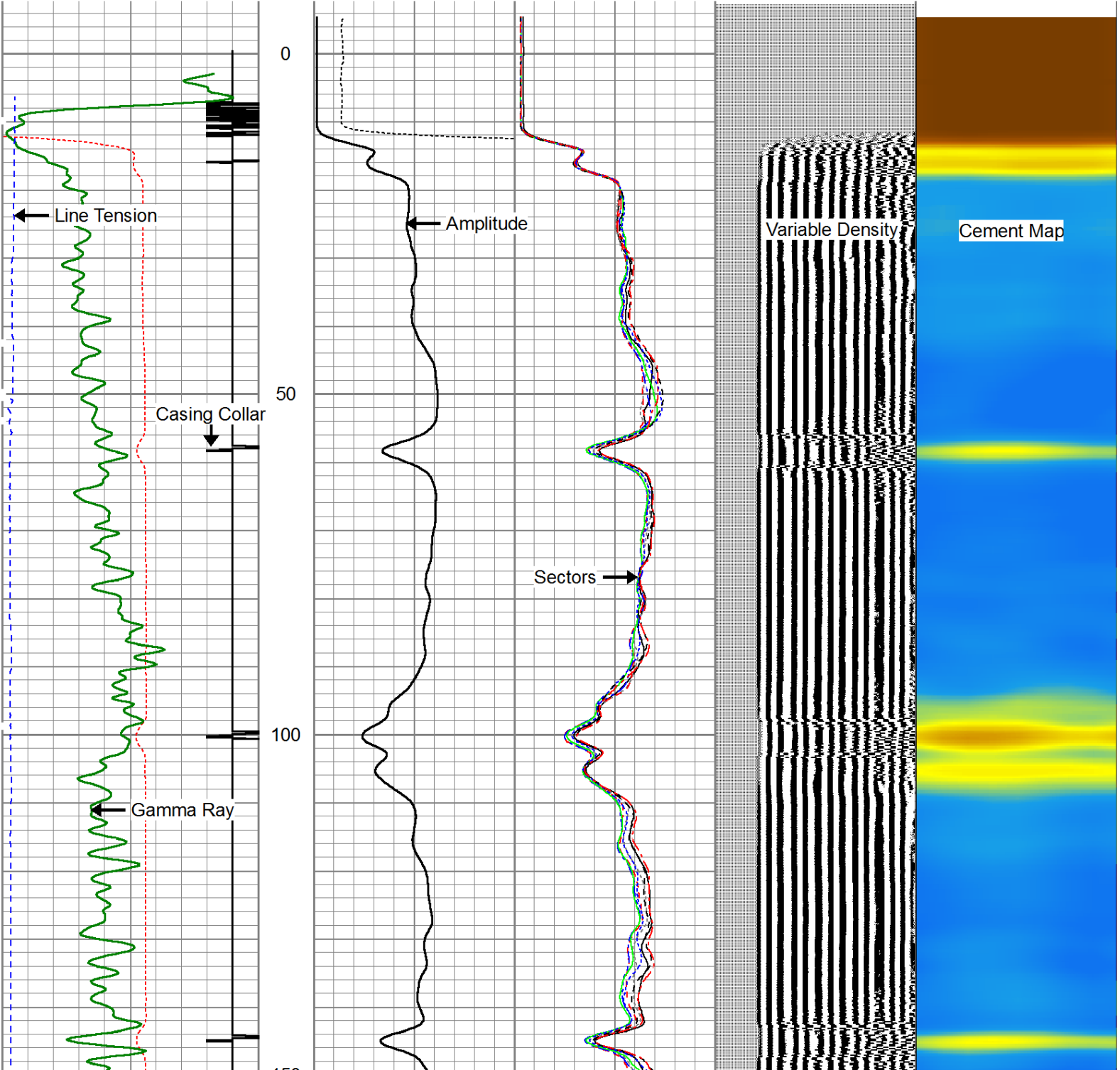
Thank You For Using Allied Wireline Serivces
303.659.4609

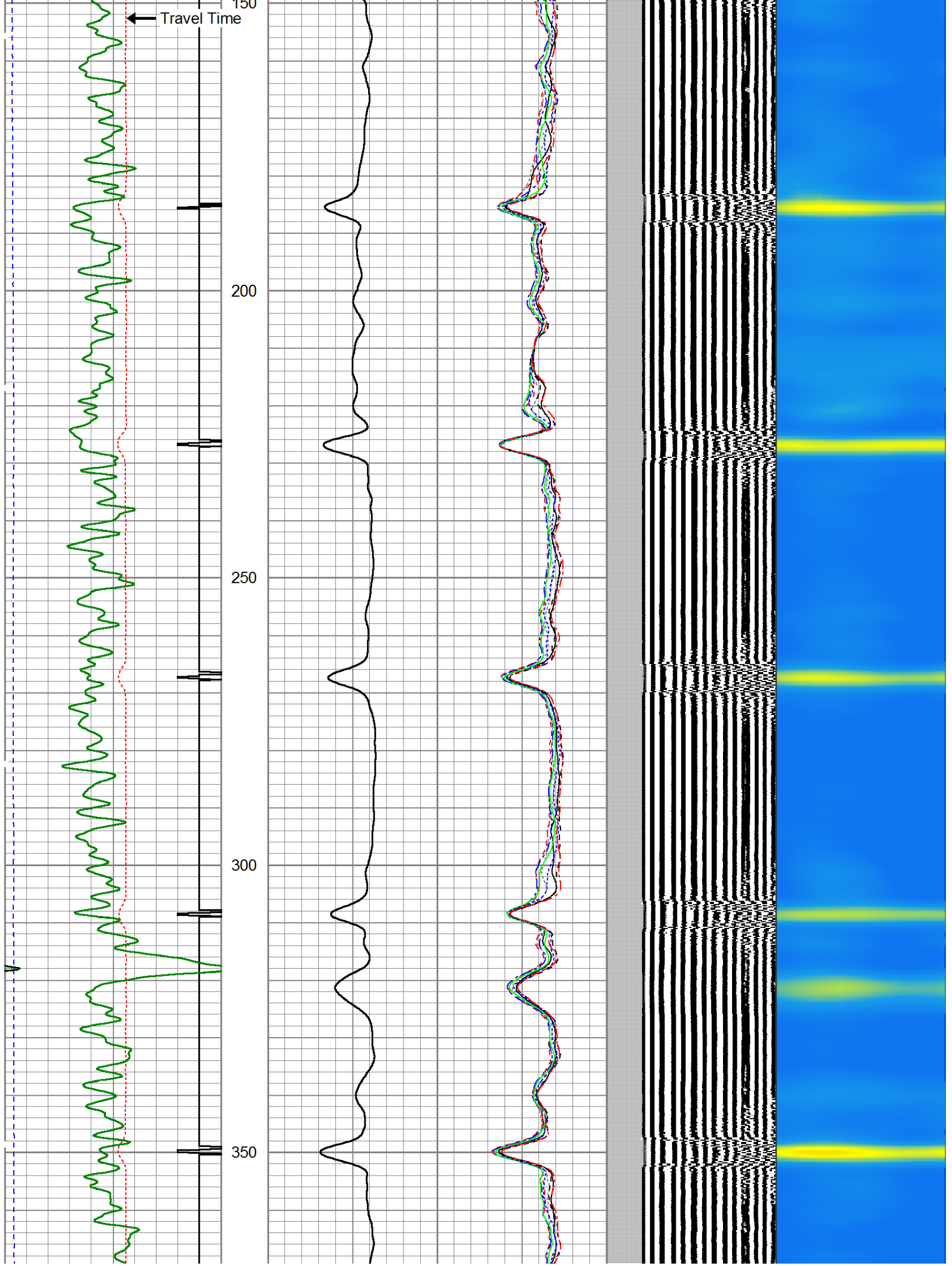


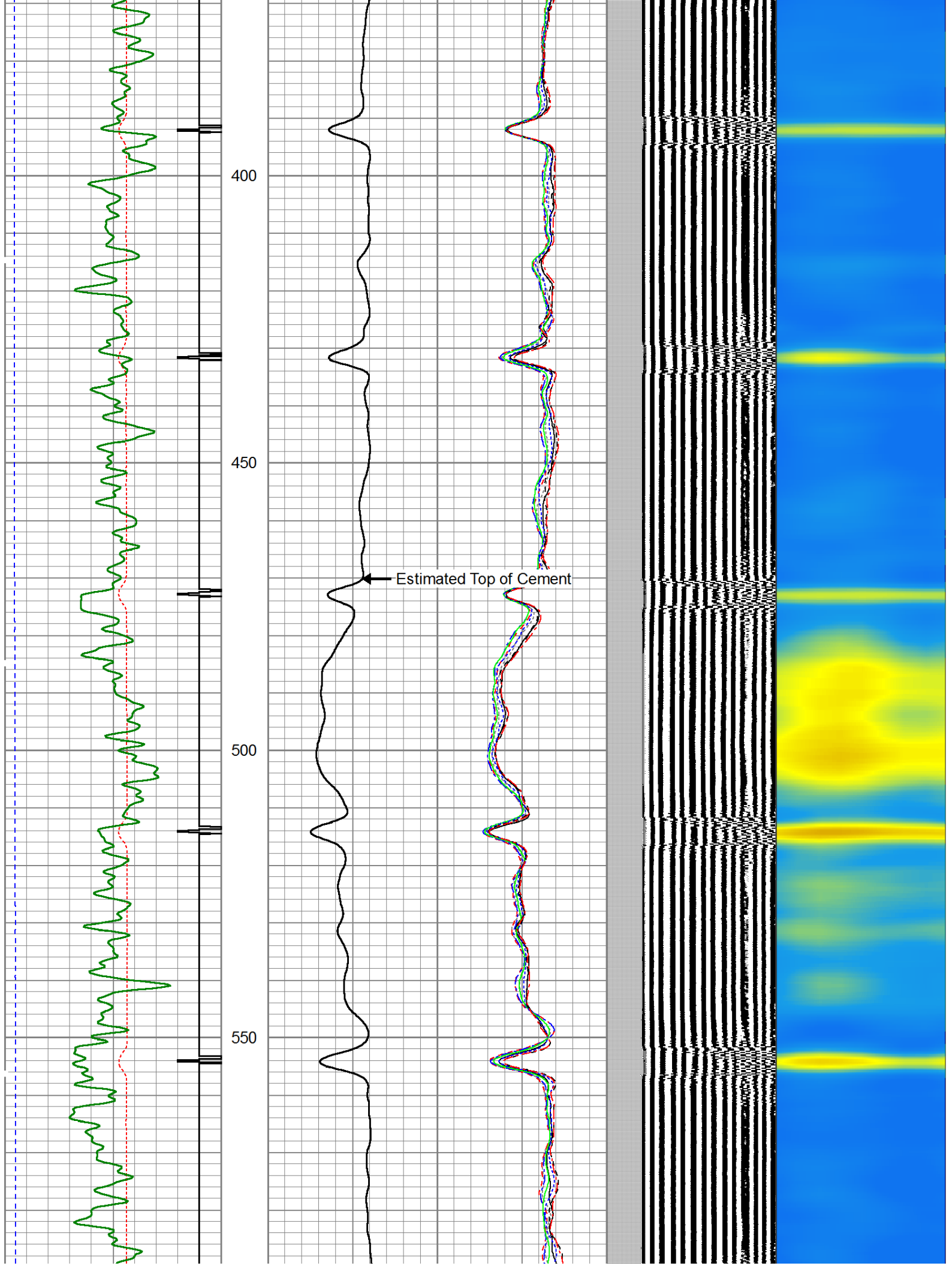
Main Pass (1000 PSI)

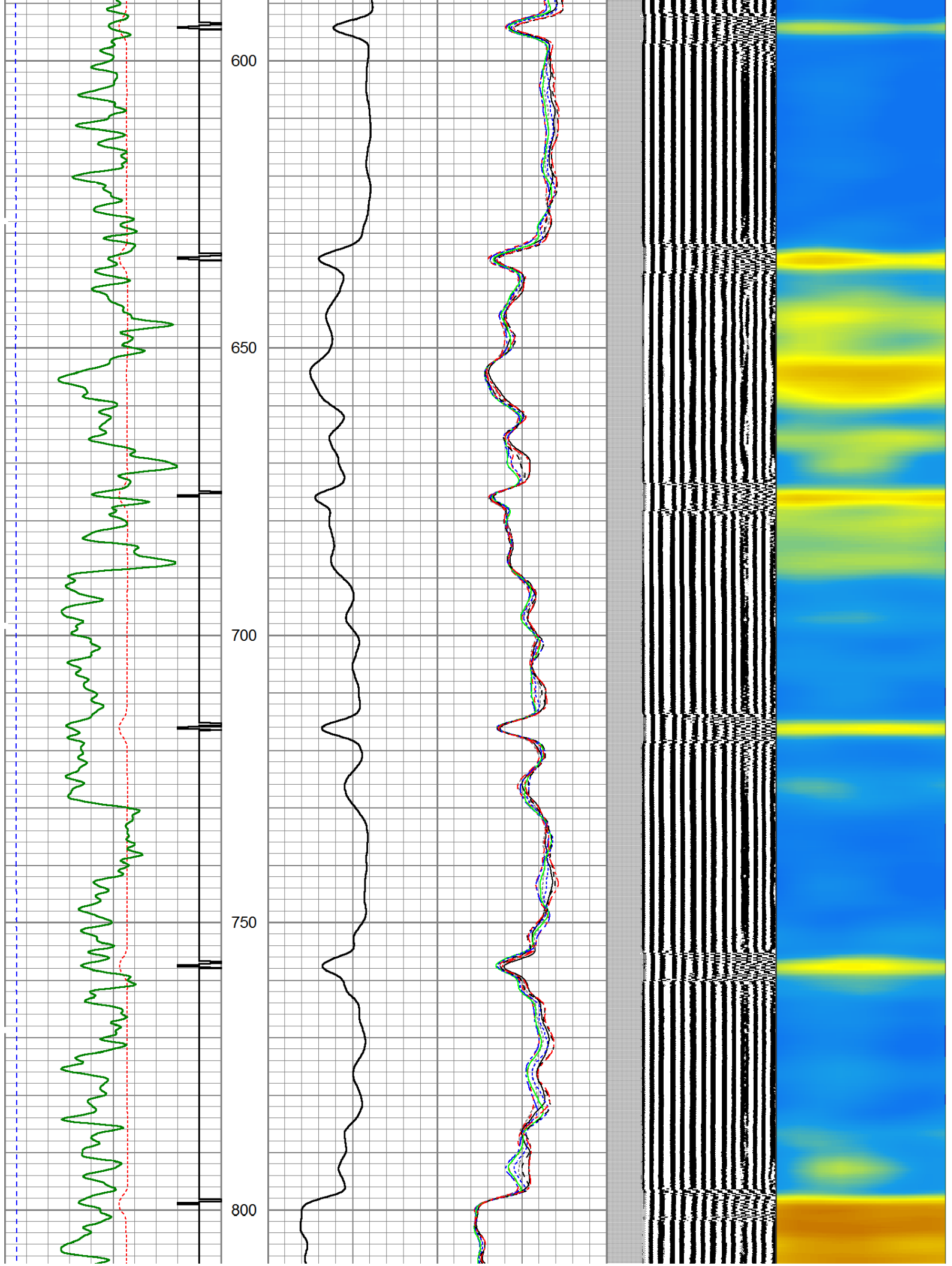
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Dataset Pathname: pass10
Presentation Format: scbl03
Dataset Creation: Fri Oct 12 13:04:11 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

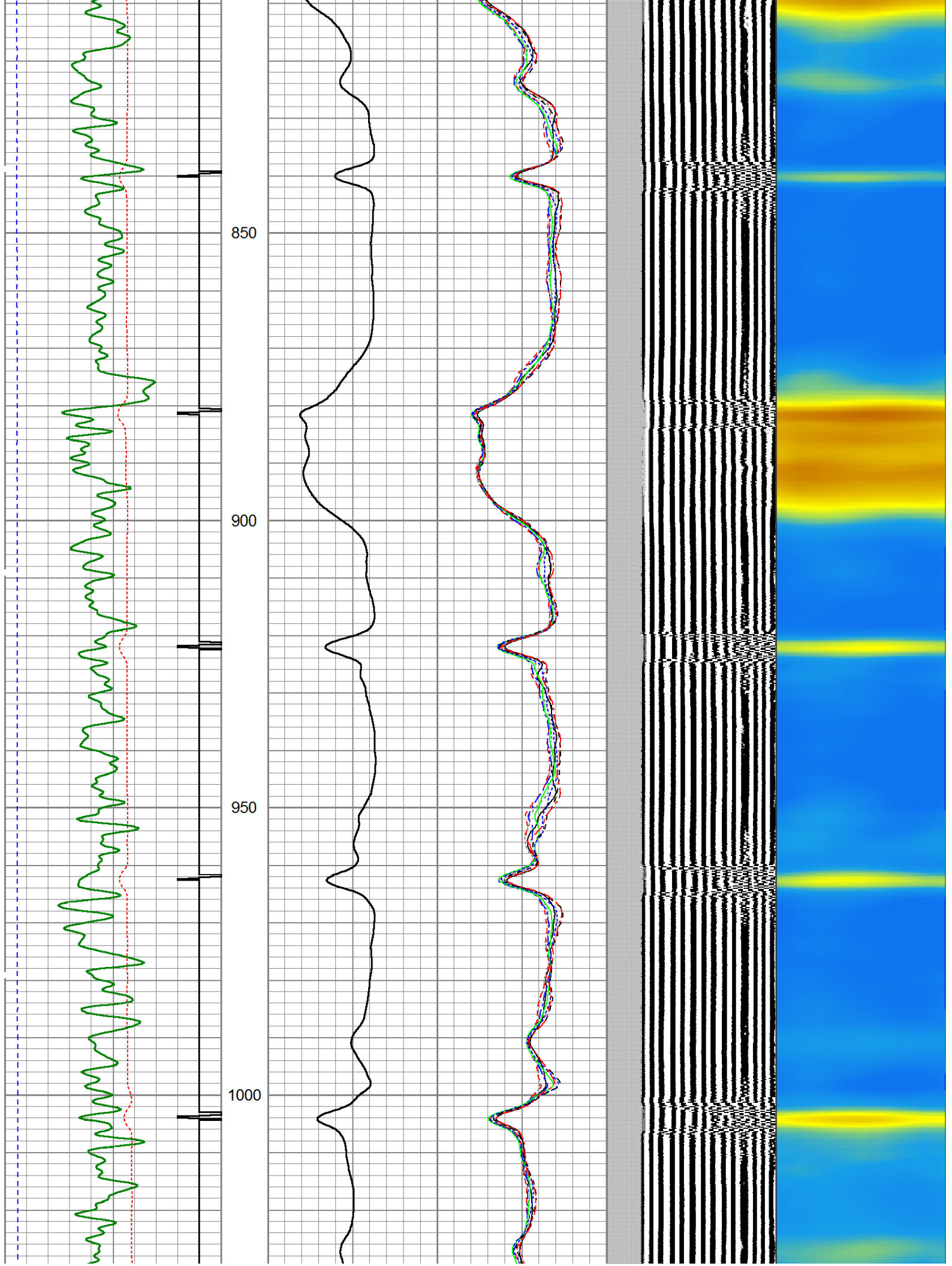
400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density		1	Cement Map	8
9	Casing Collar	-1	Amplified Amplitude		-5	AMPS2	150	200	1200	0			
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150					
		5000			-5	AMPS4	150						
					-5	AMPS5	150						
					-5	AMPS6	150						
					-5	AMPS7	150						
					-5	AMPS8	150						

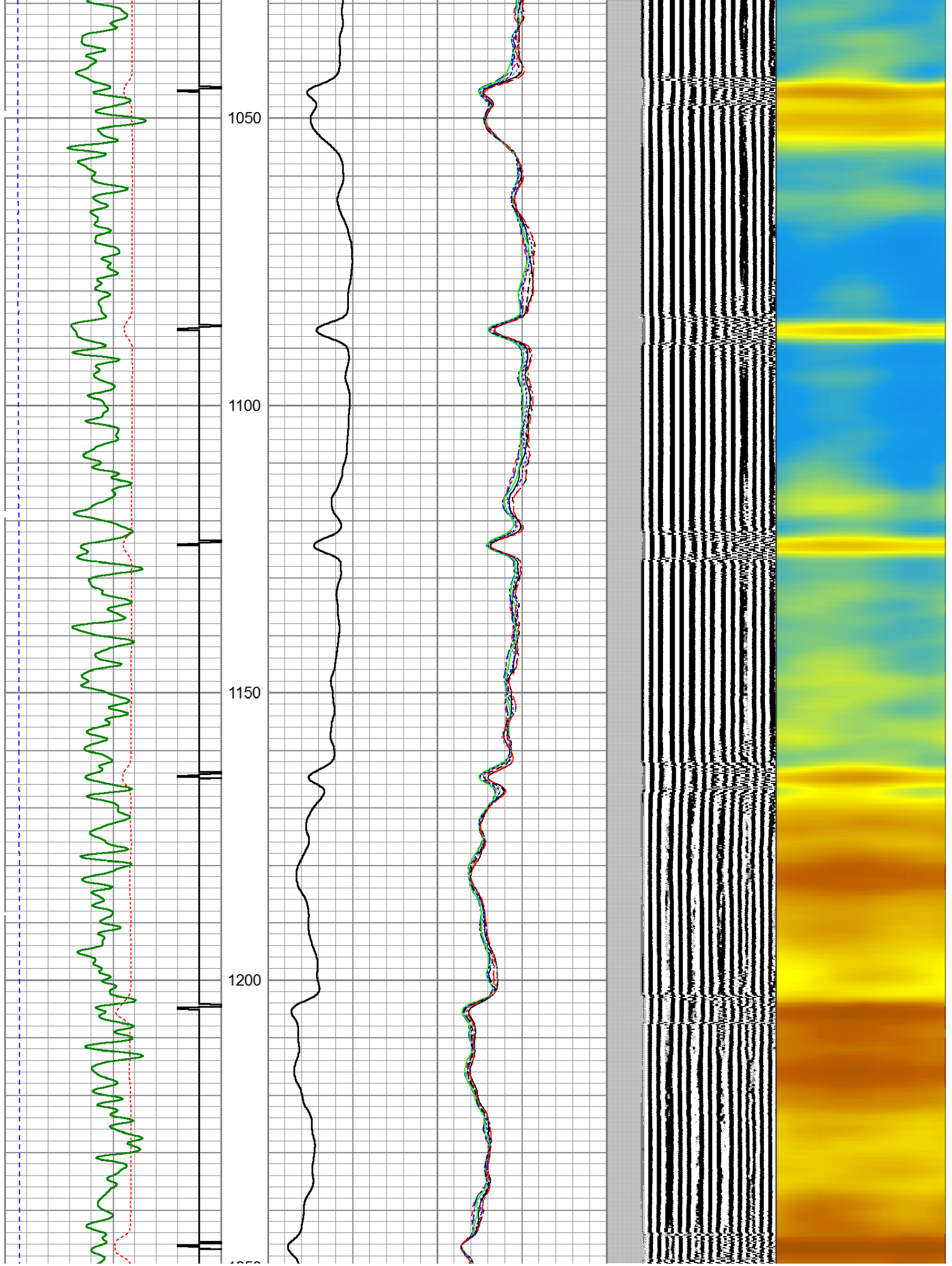


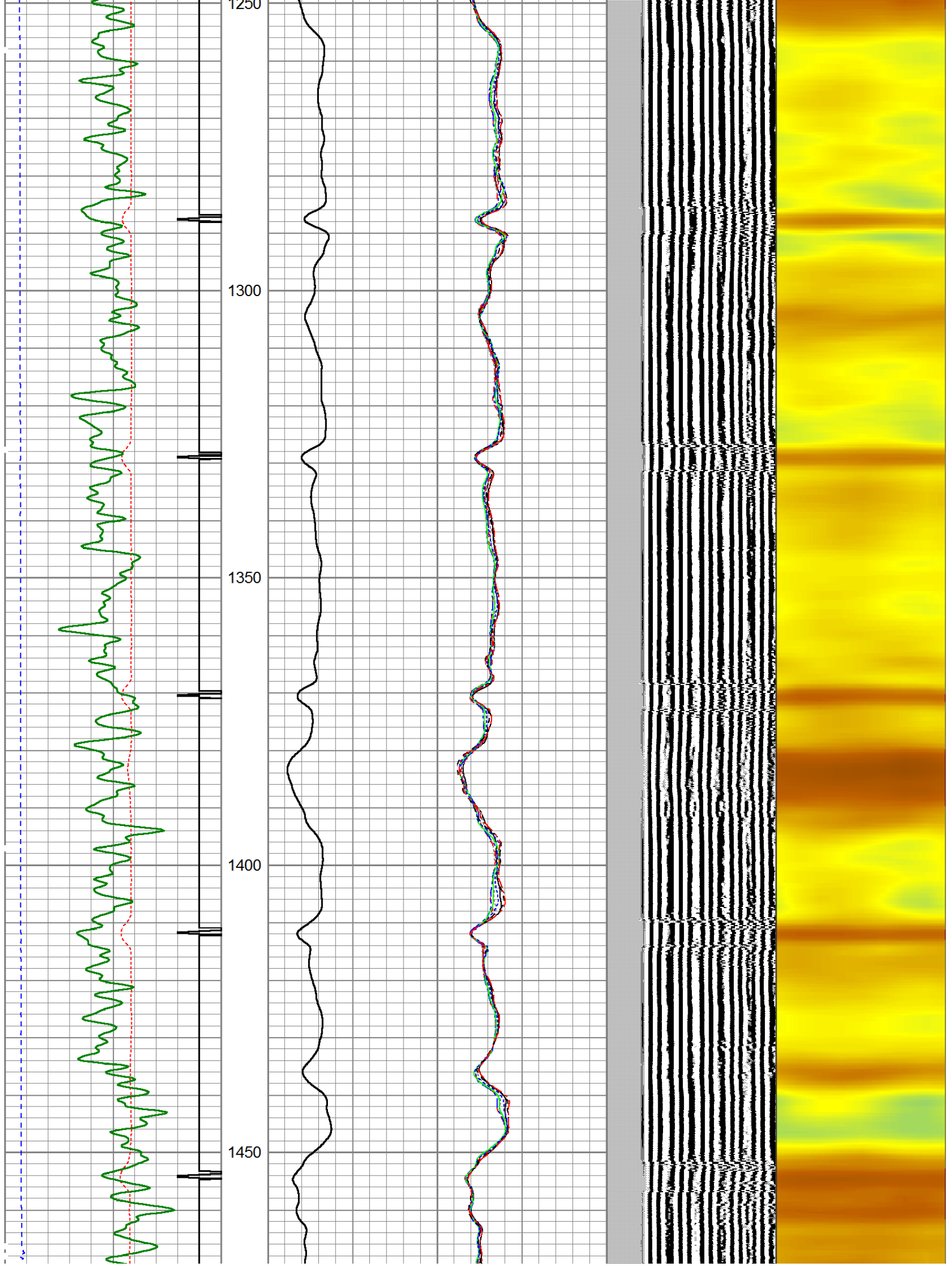


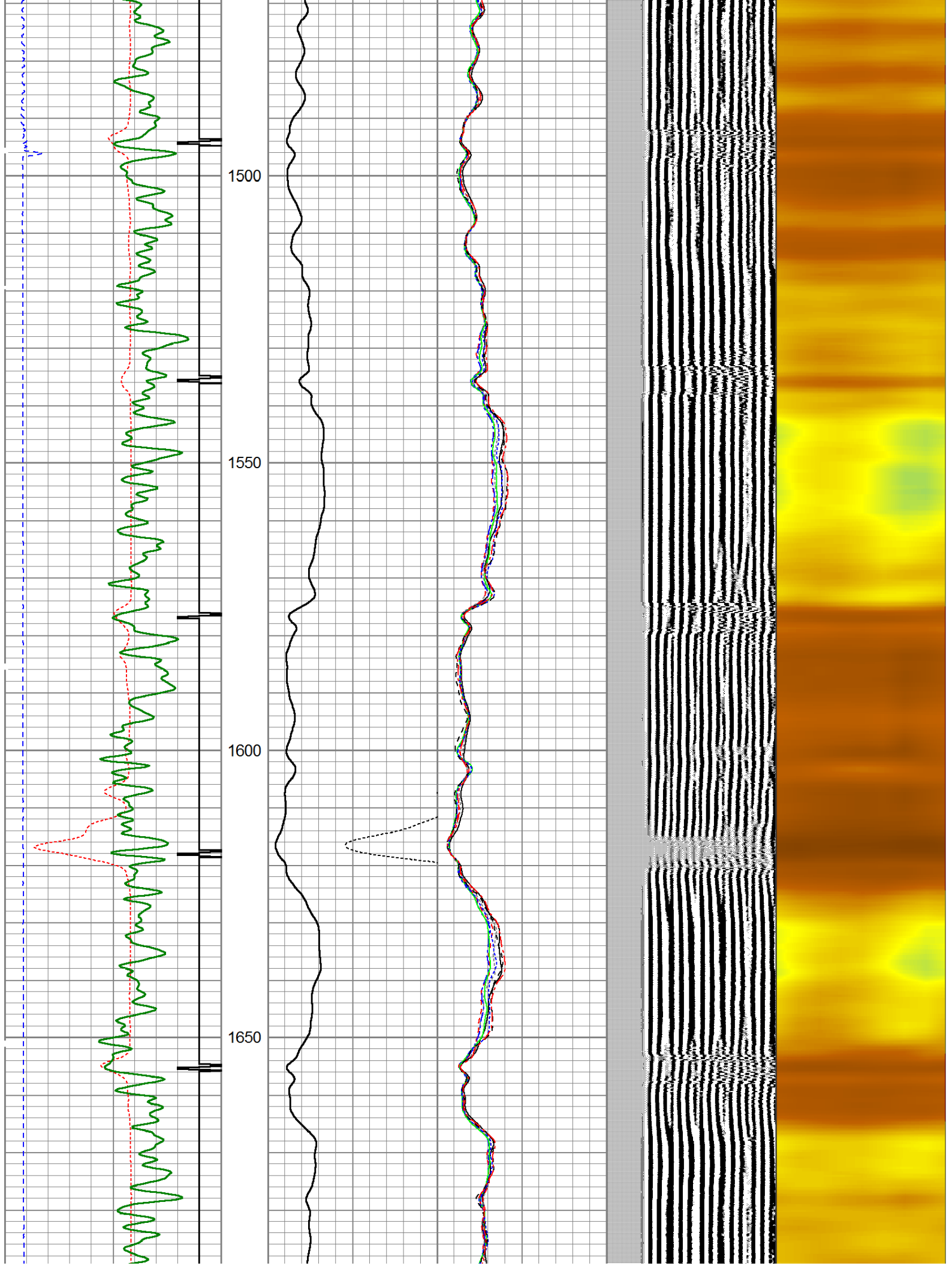


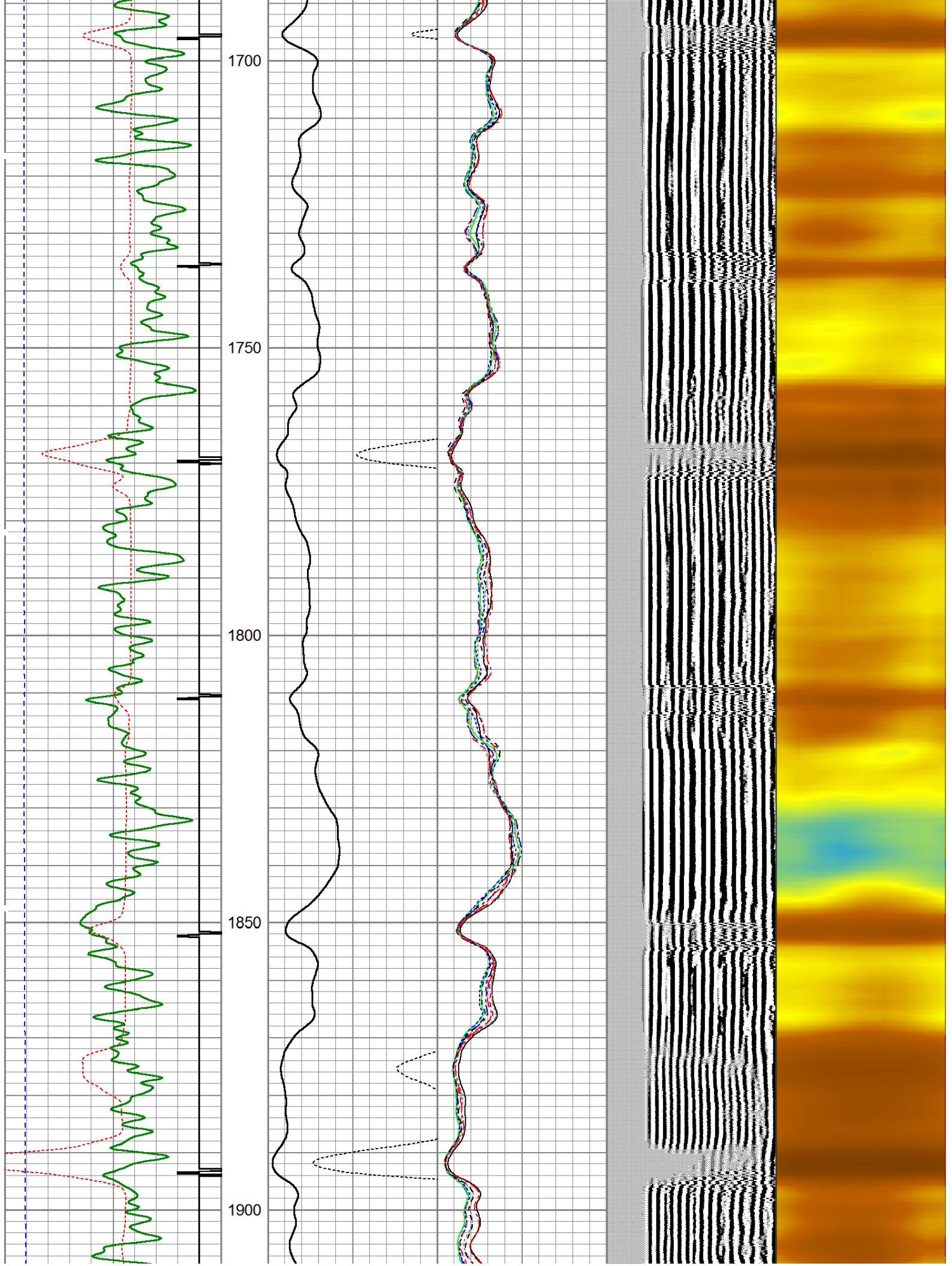


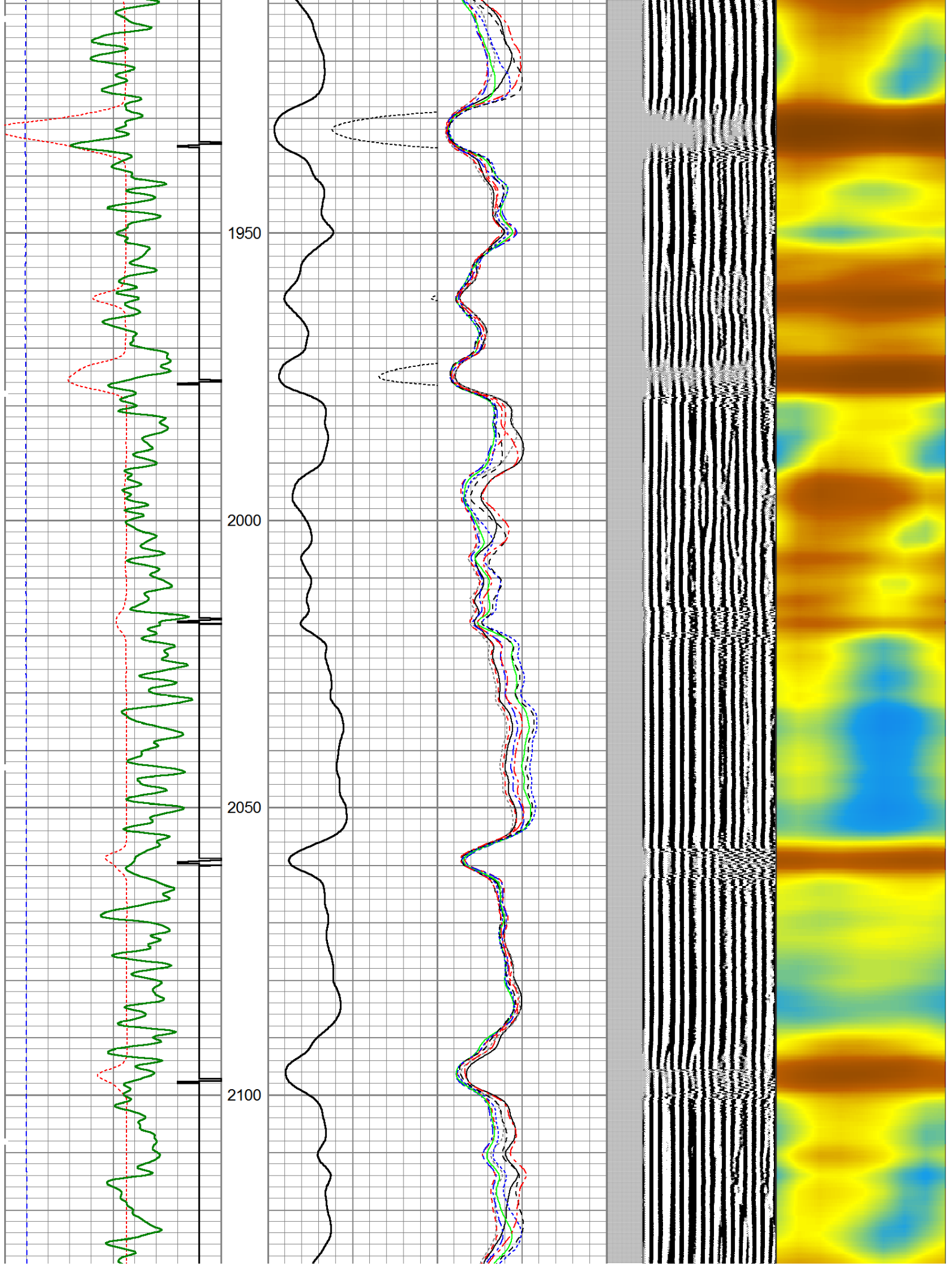


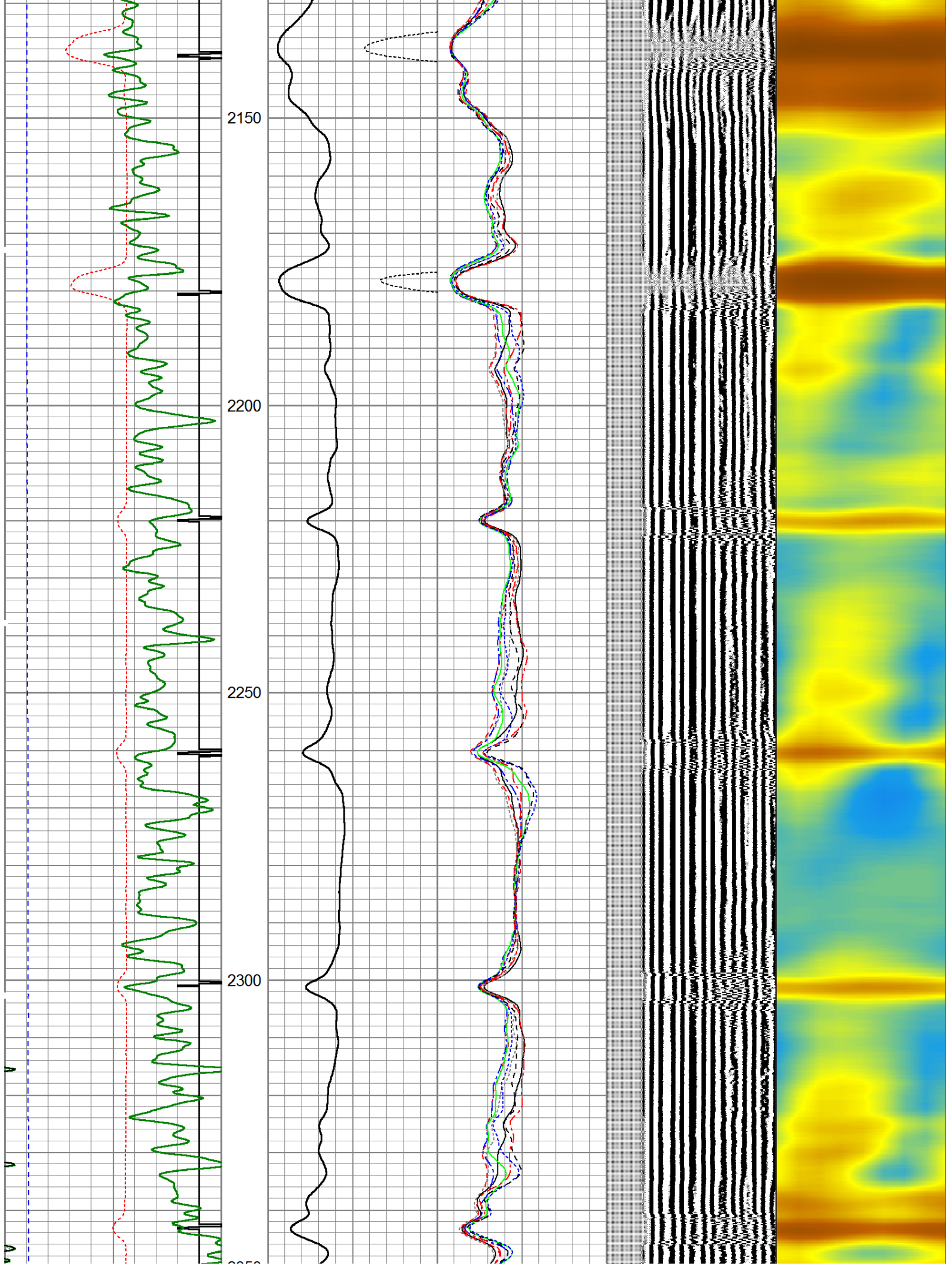


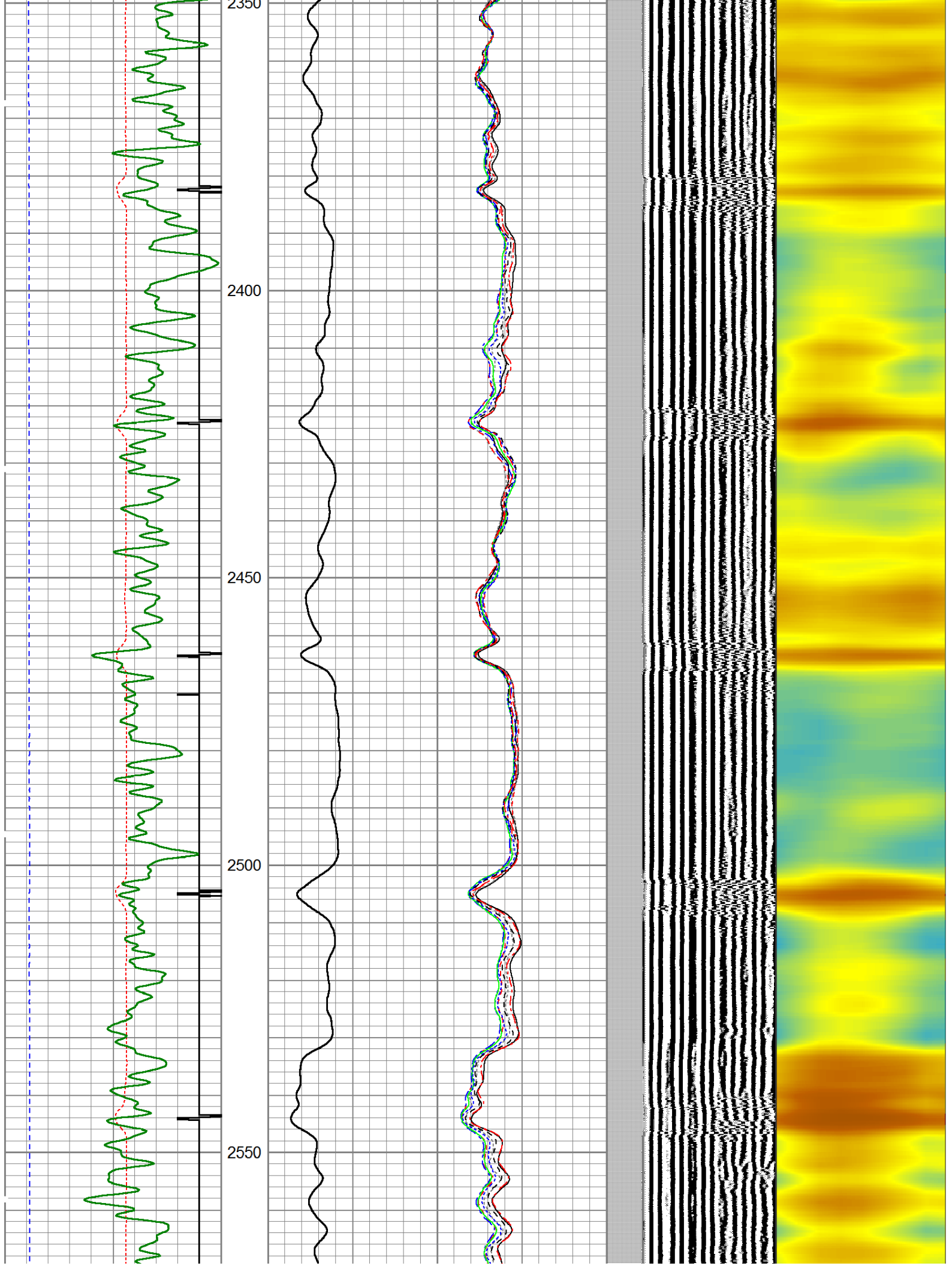


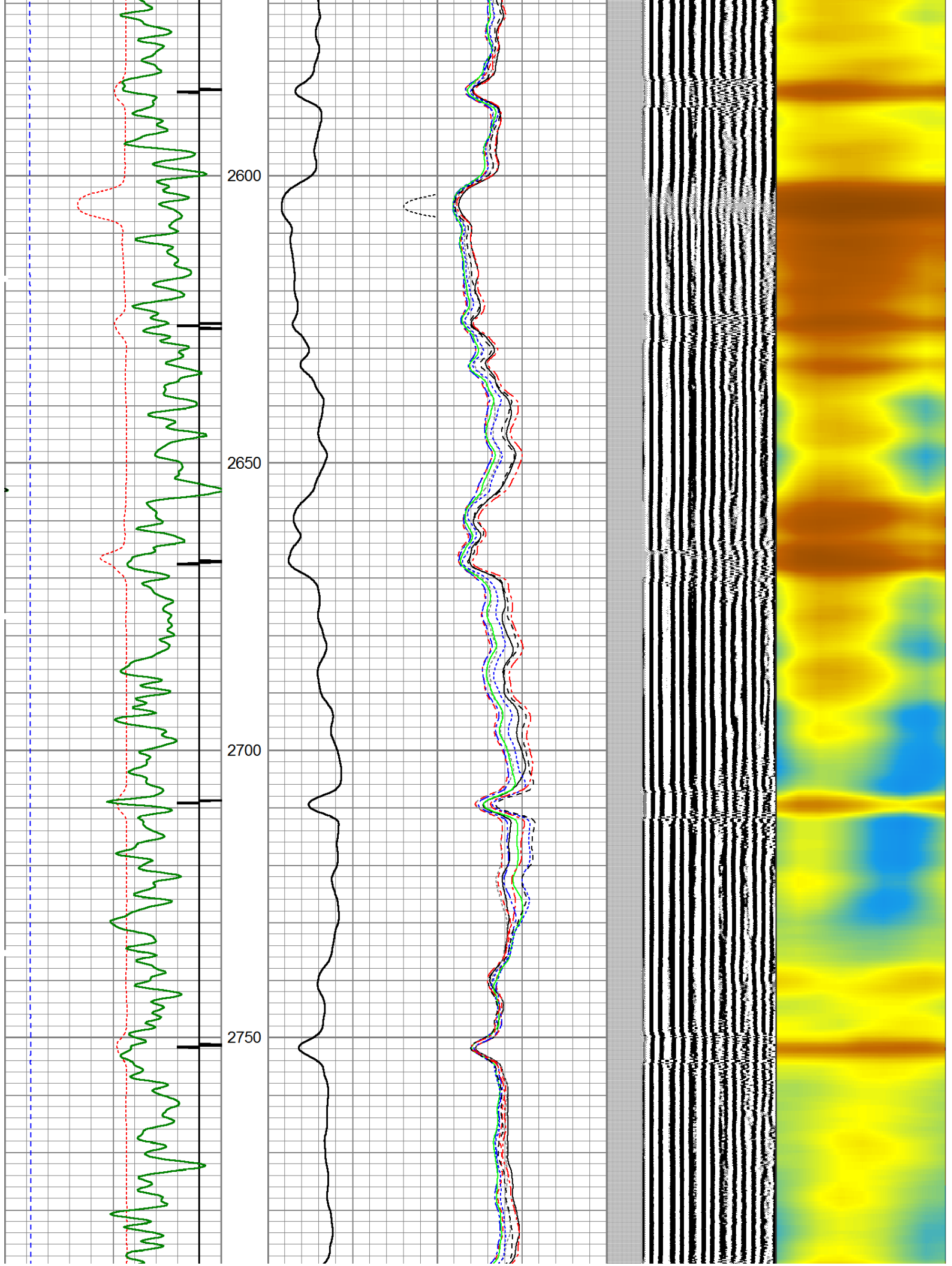


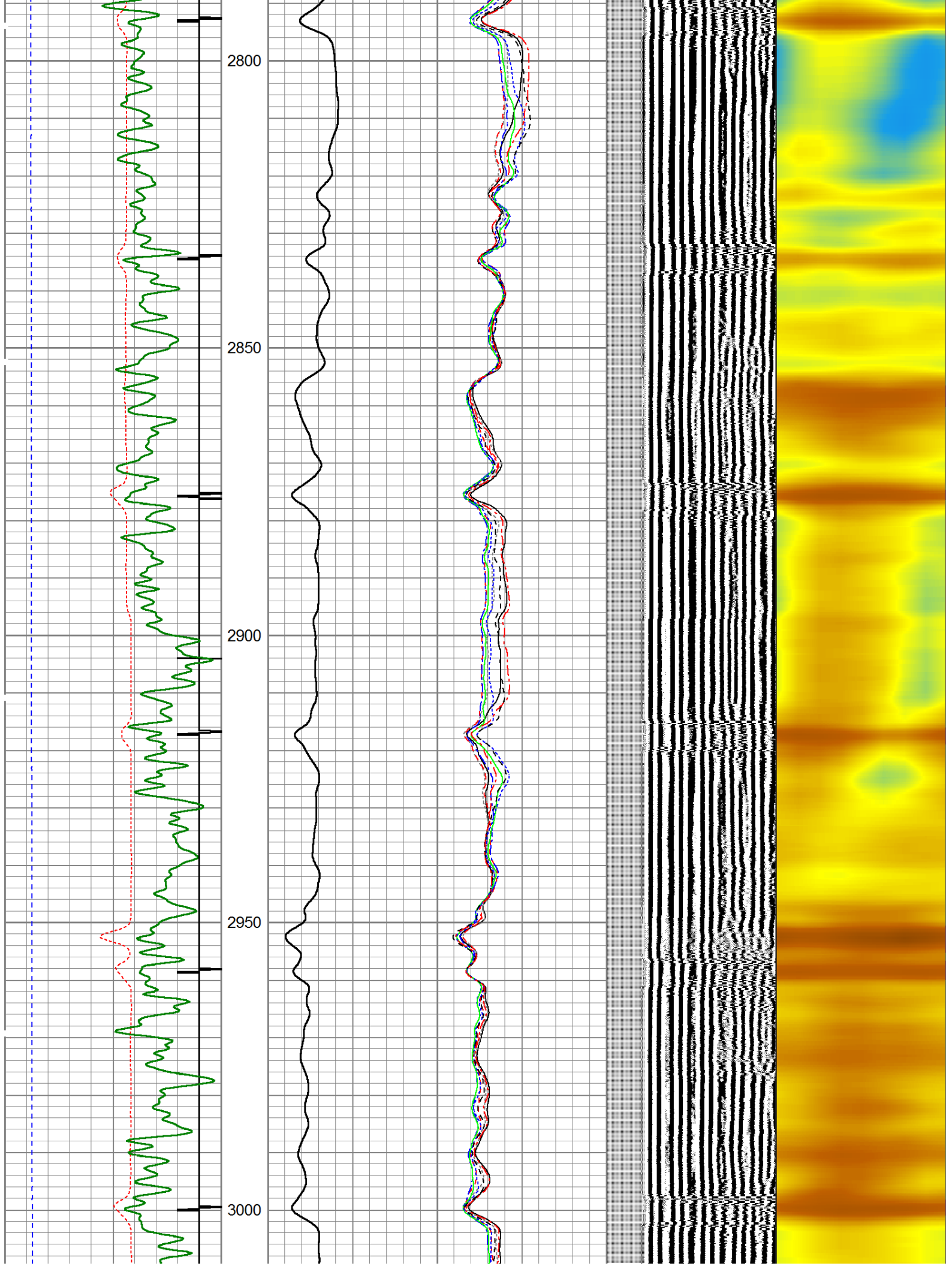


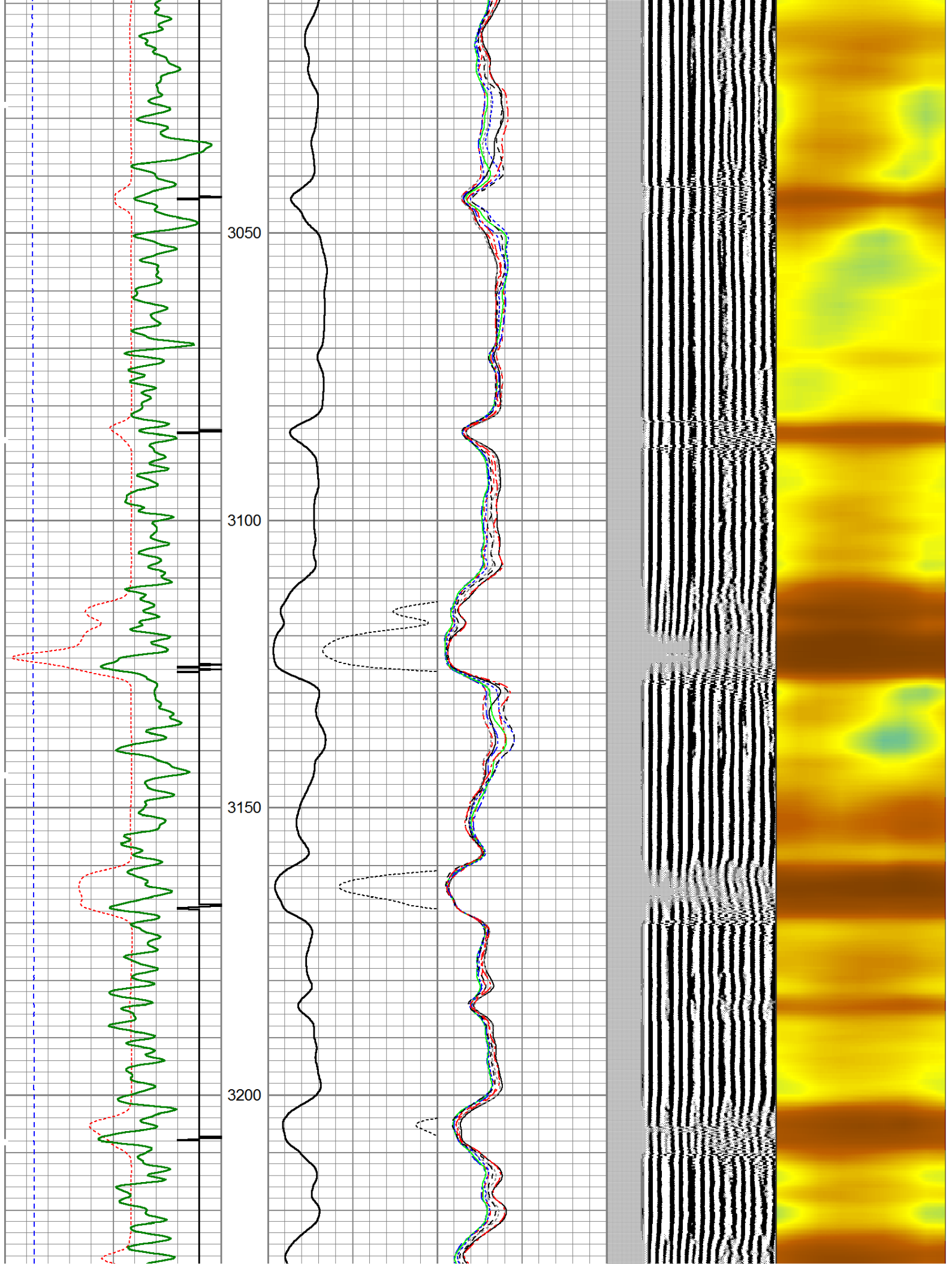


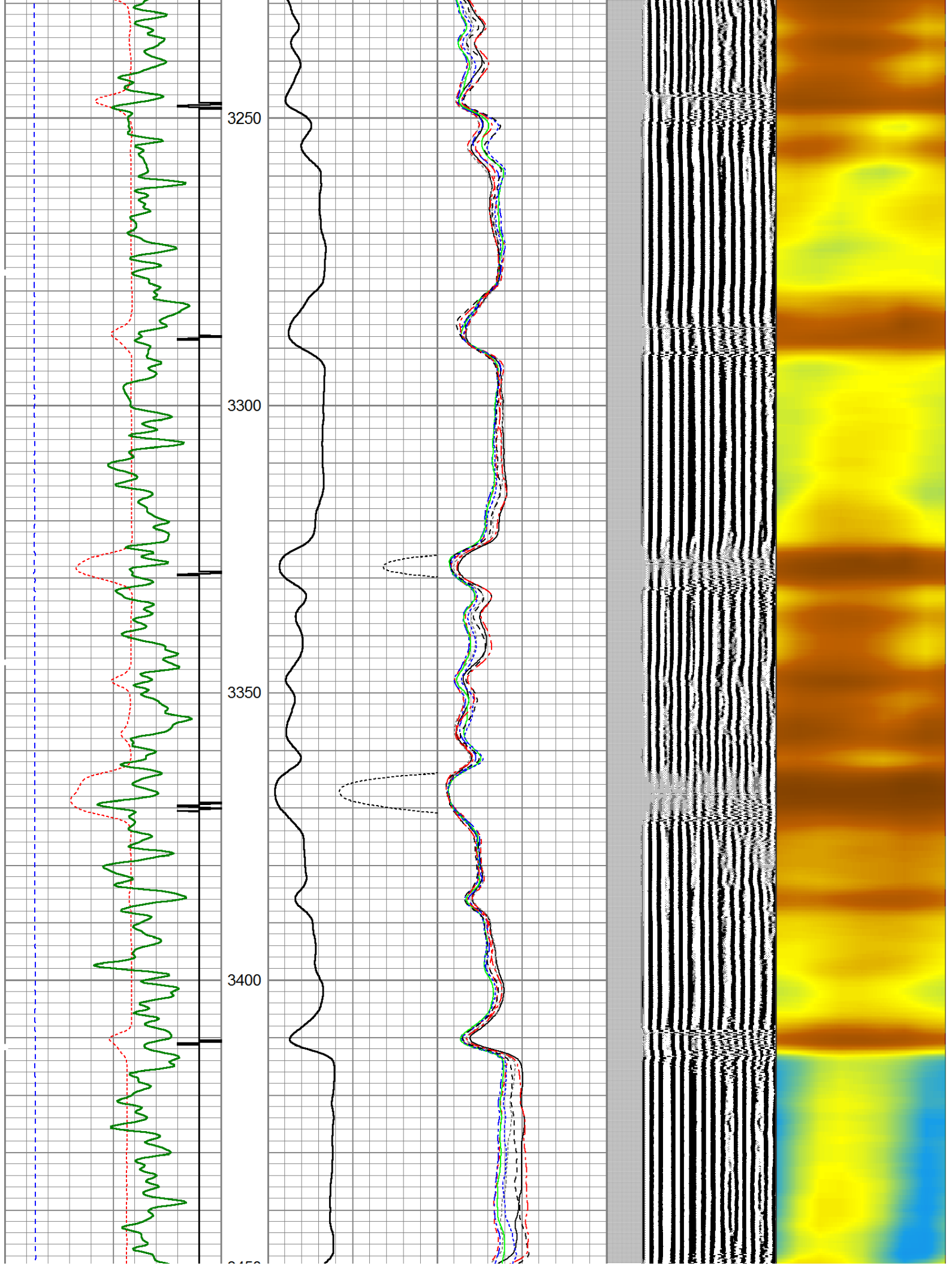


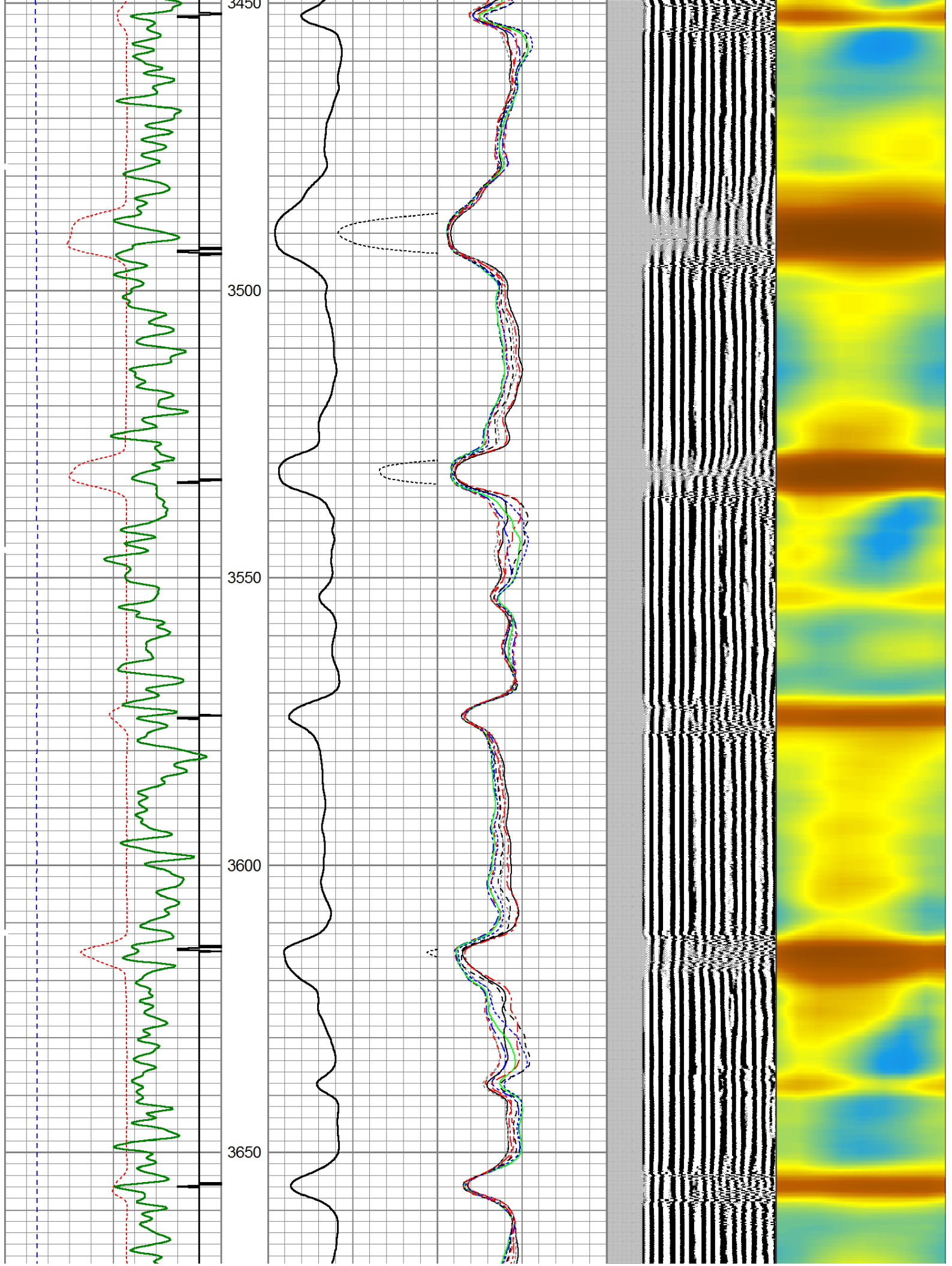


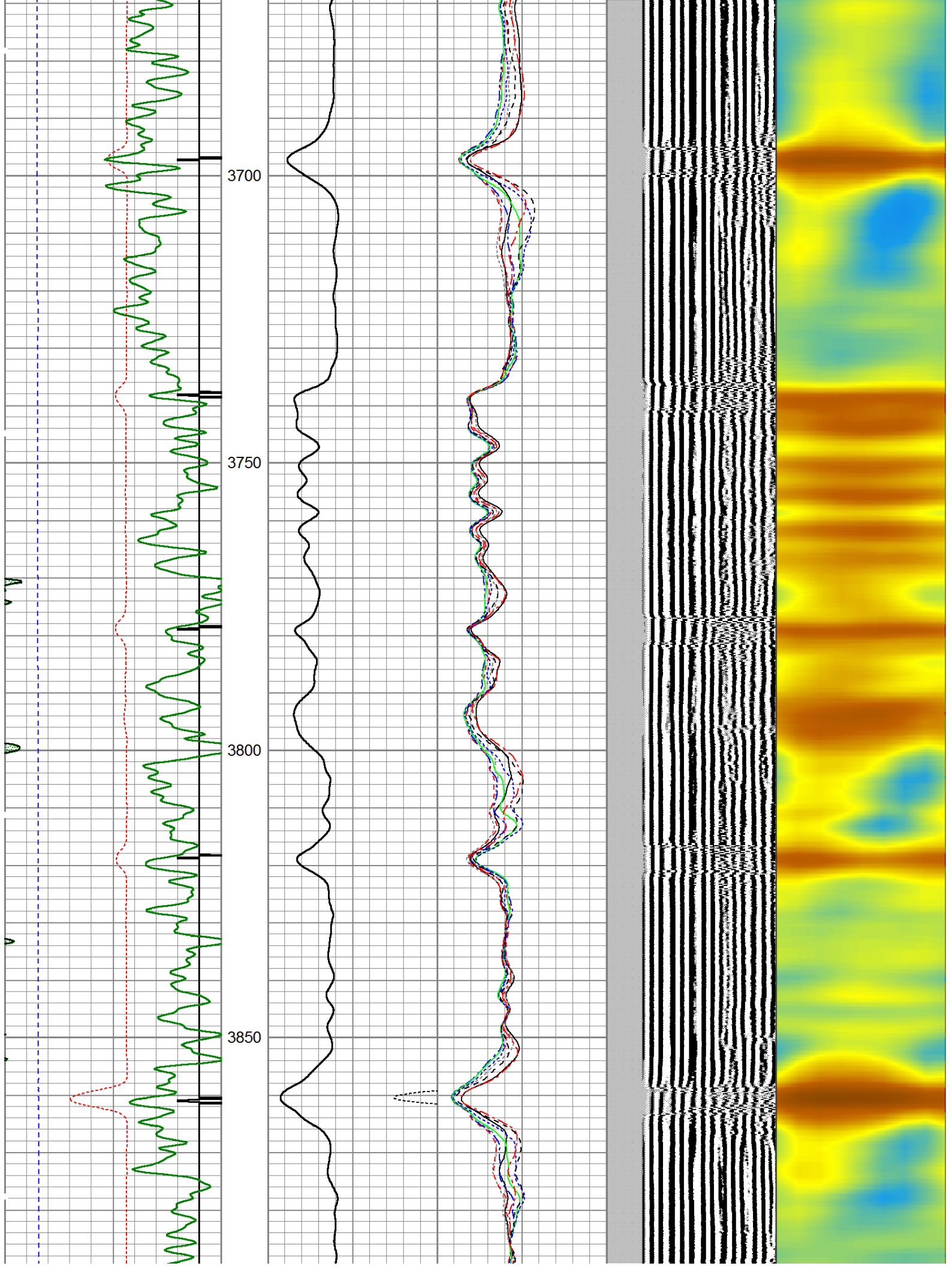


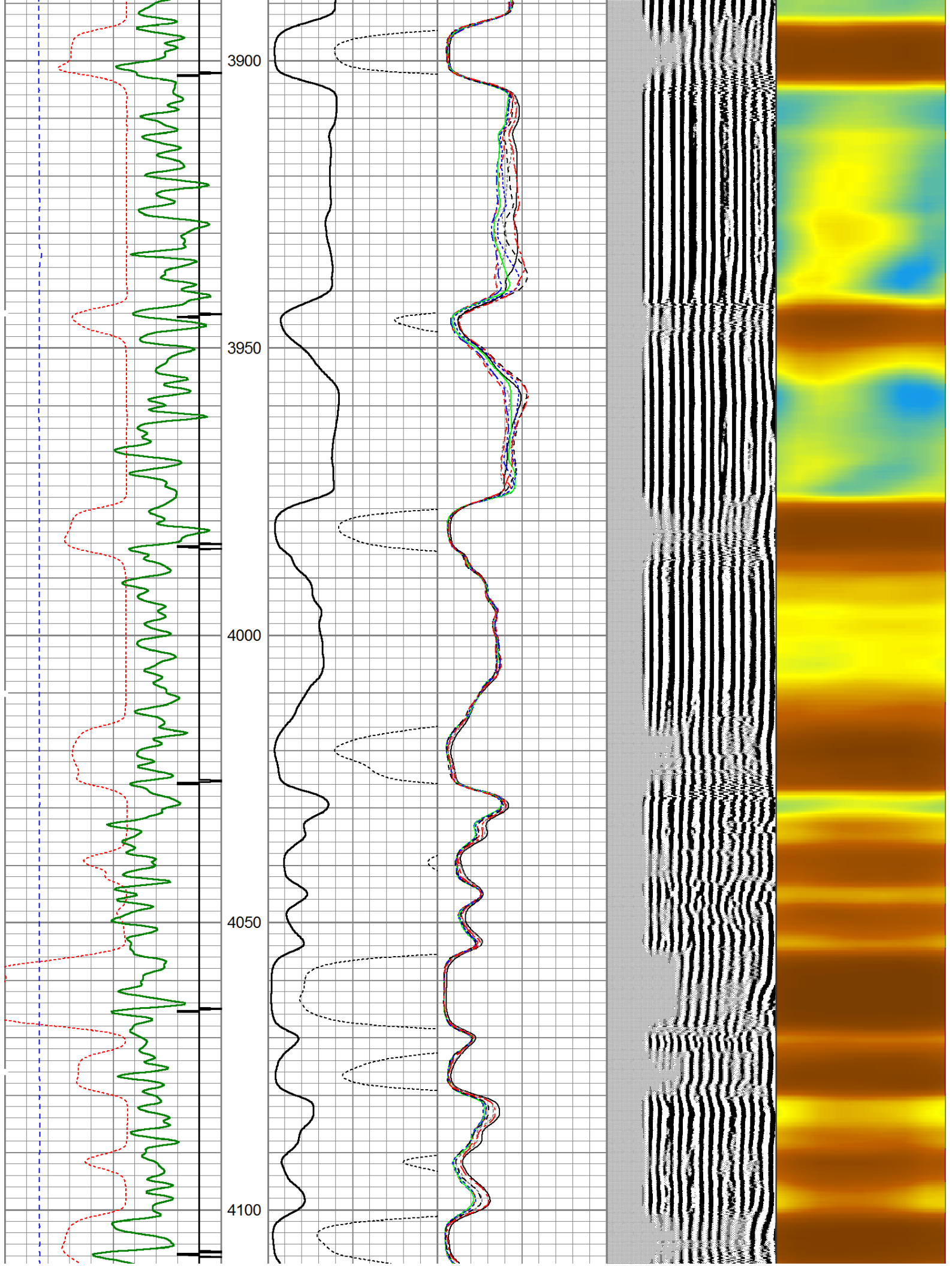


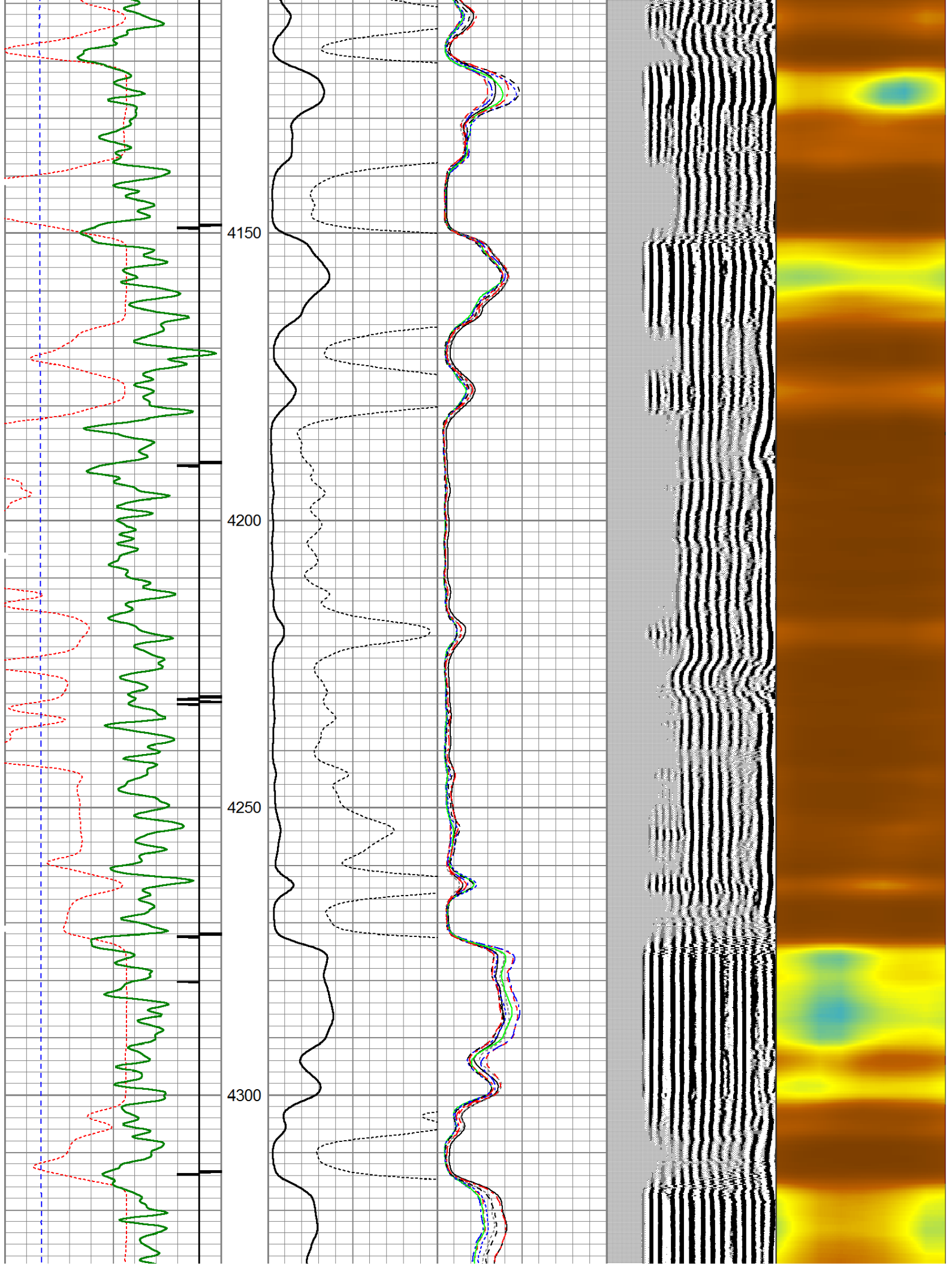


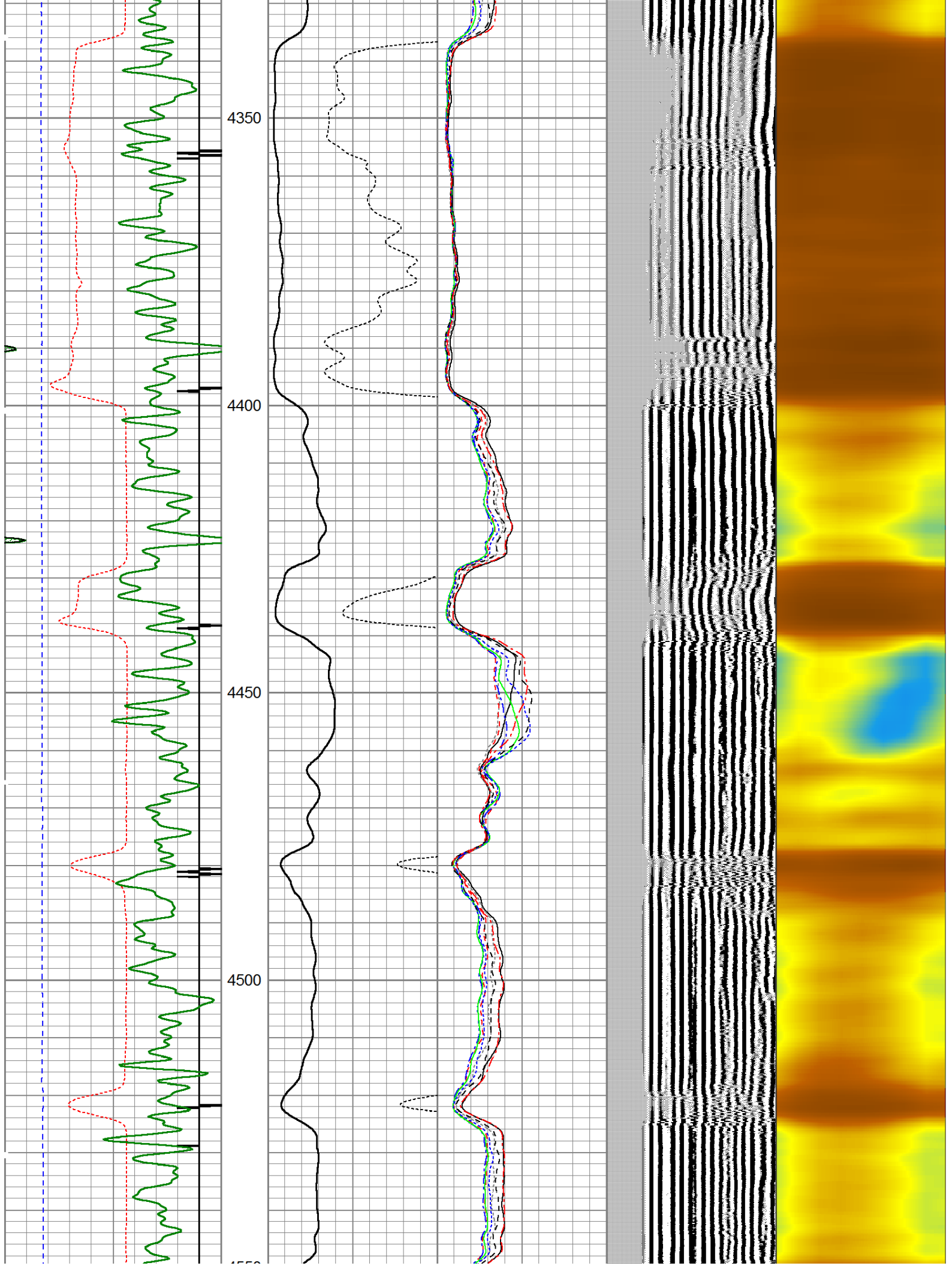


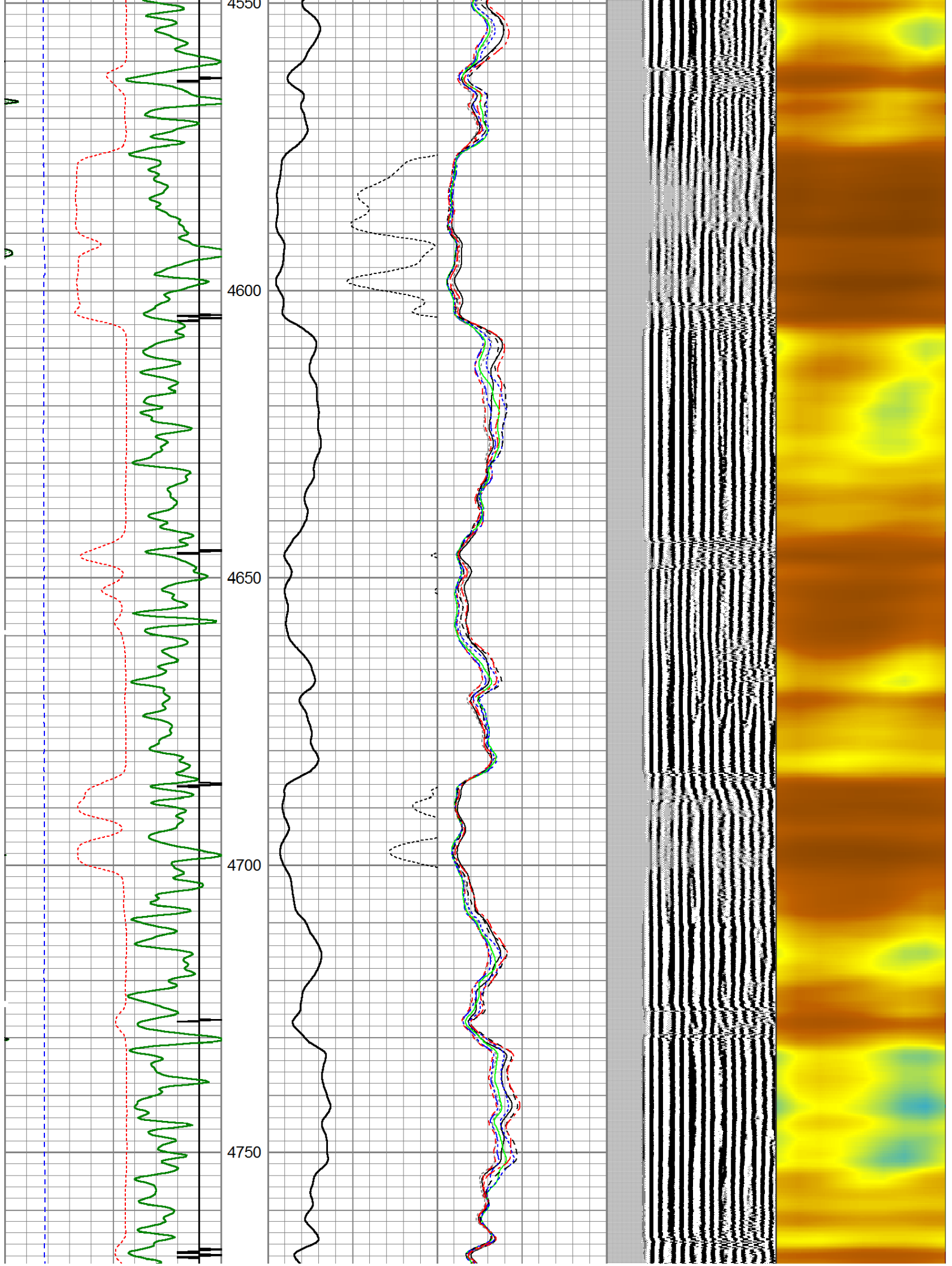


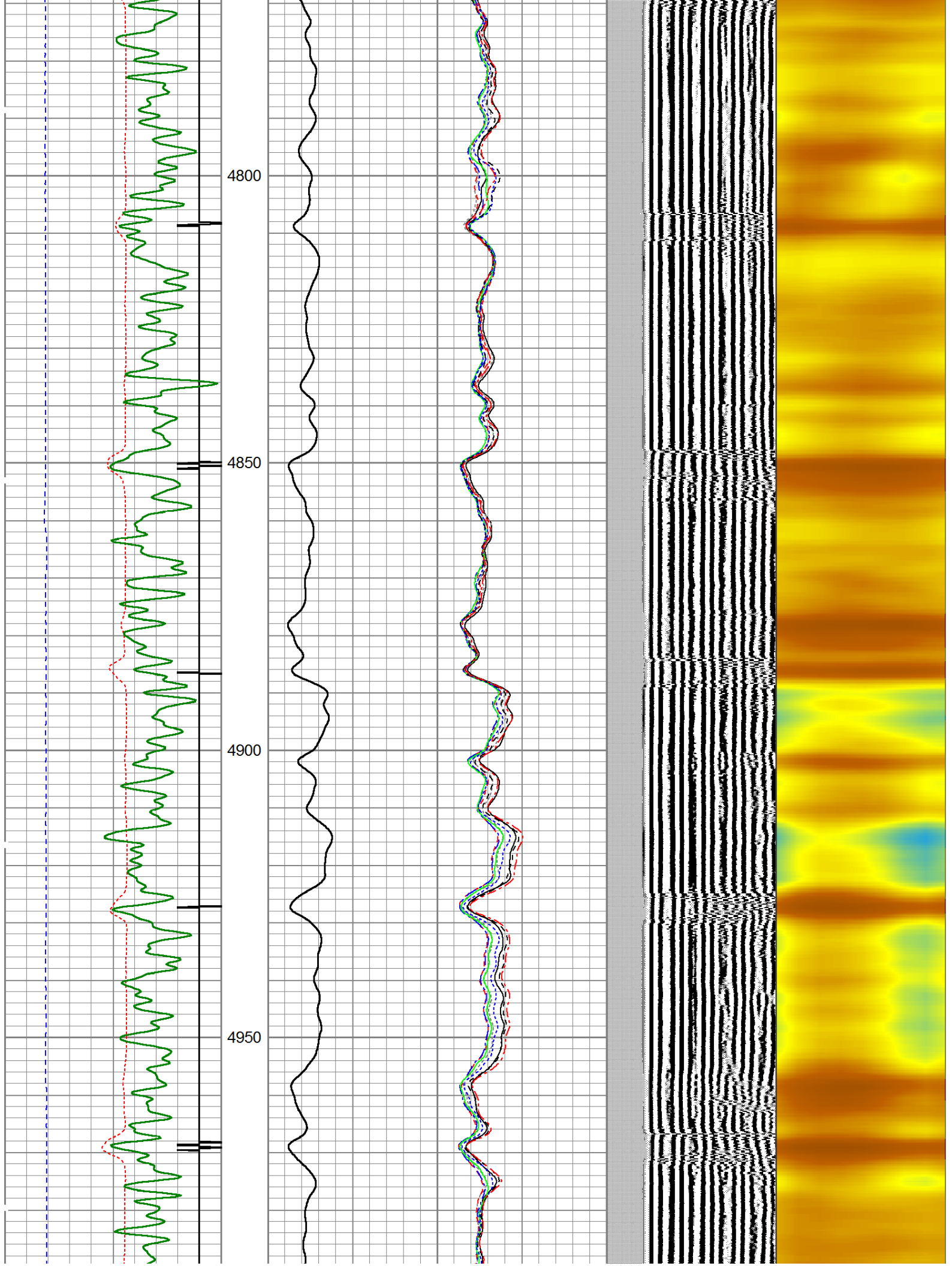


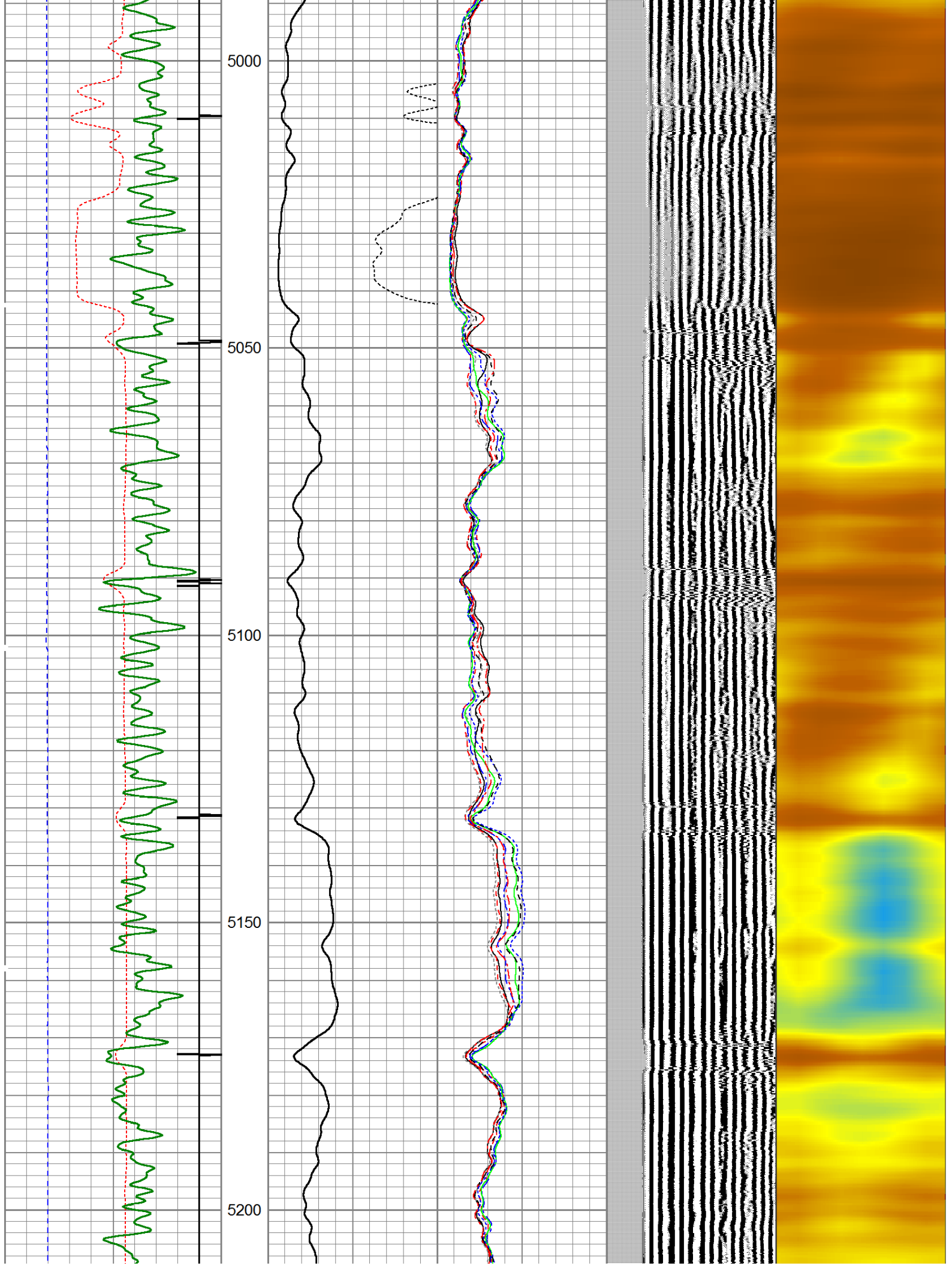


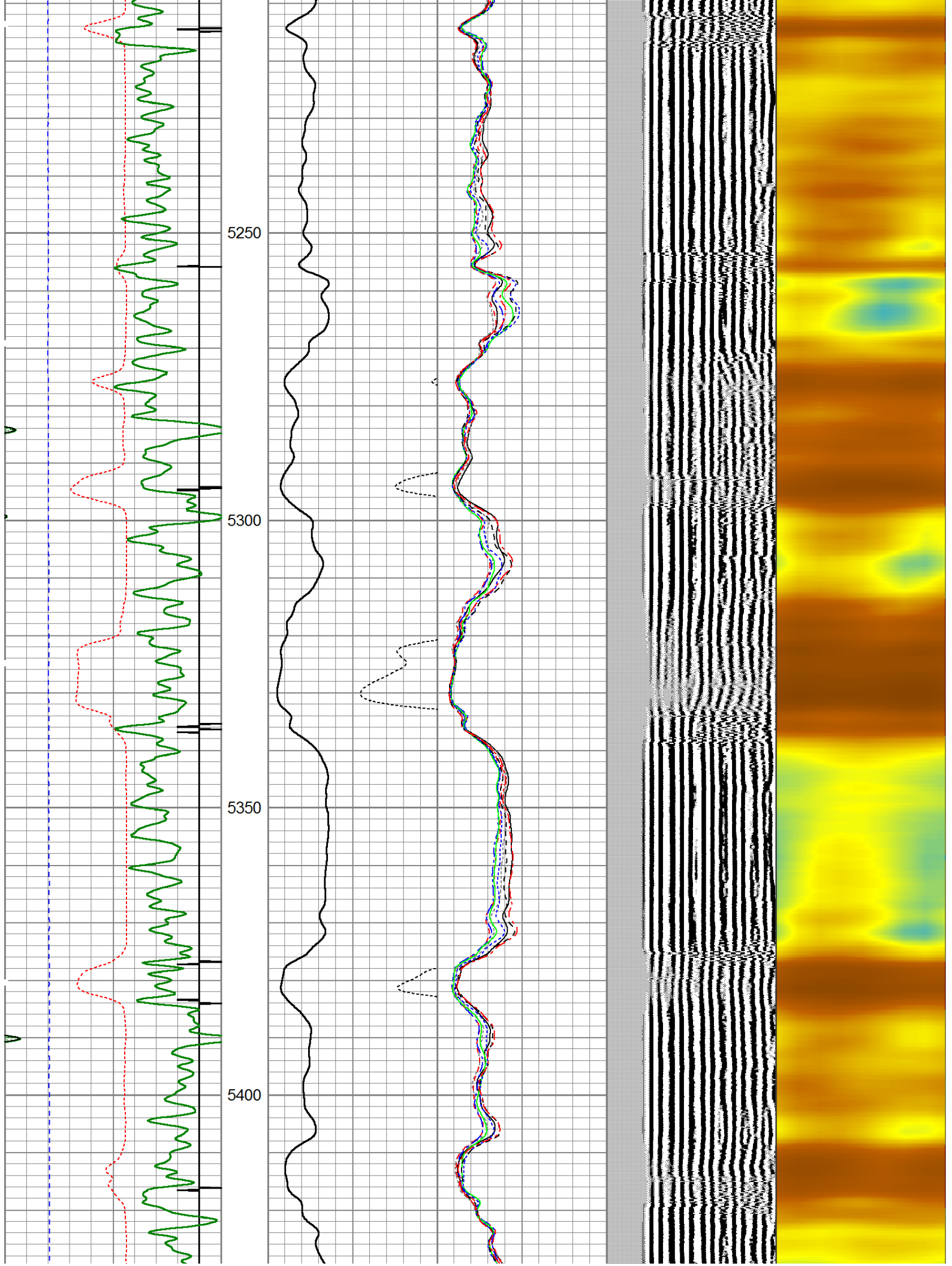


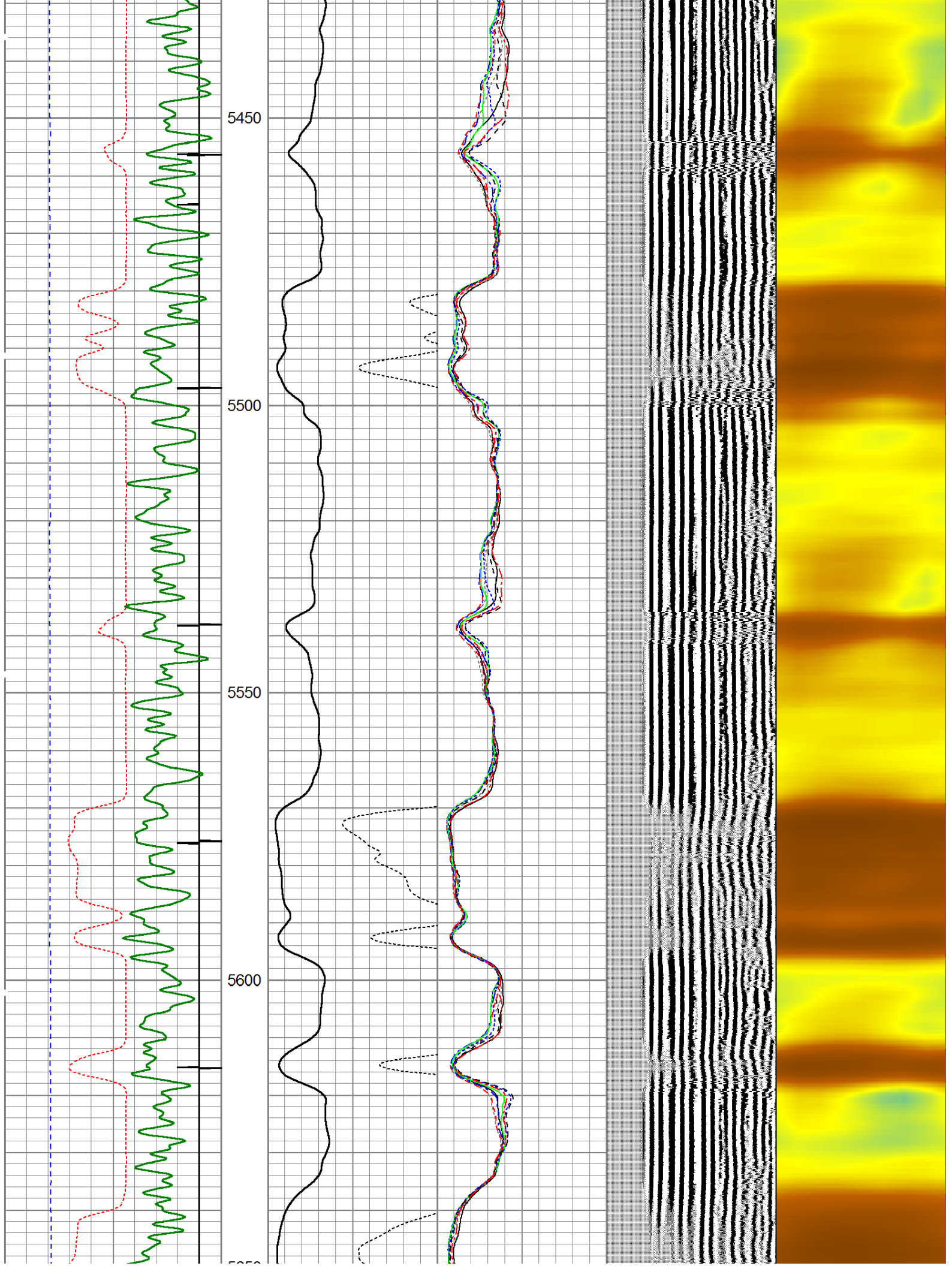


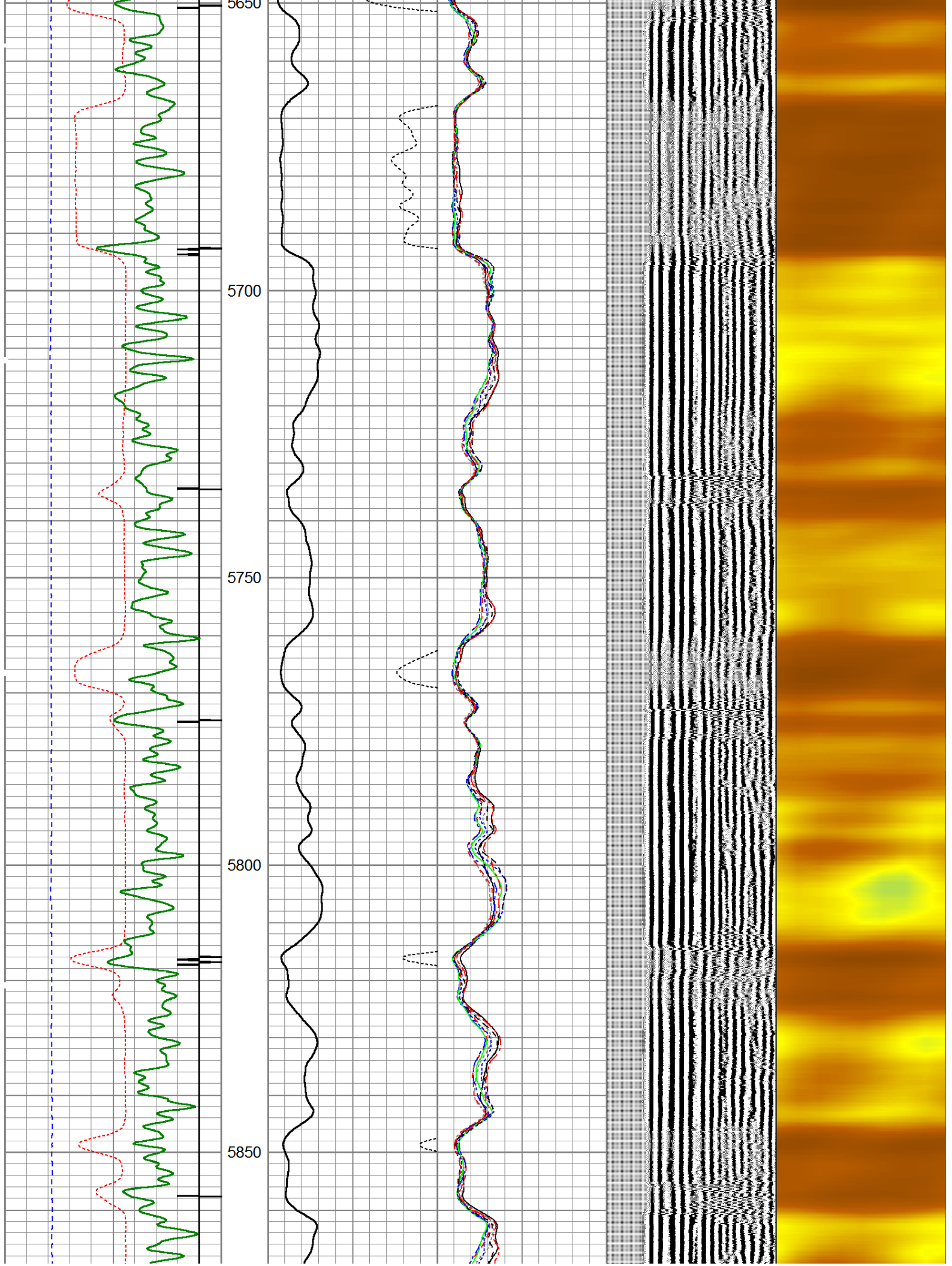


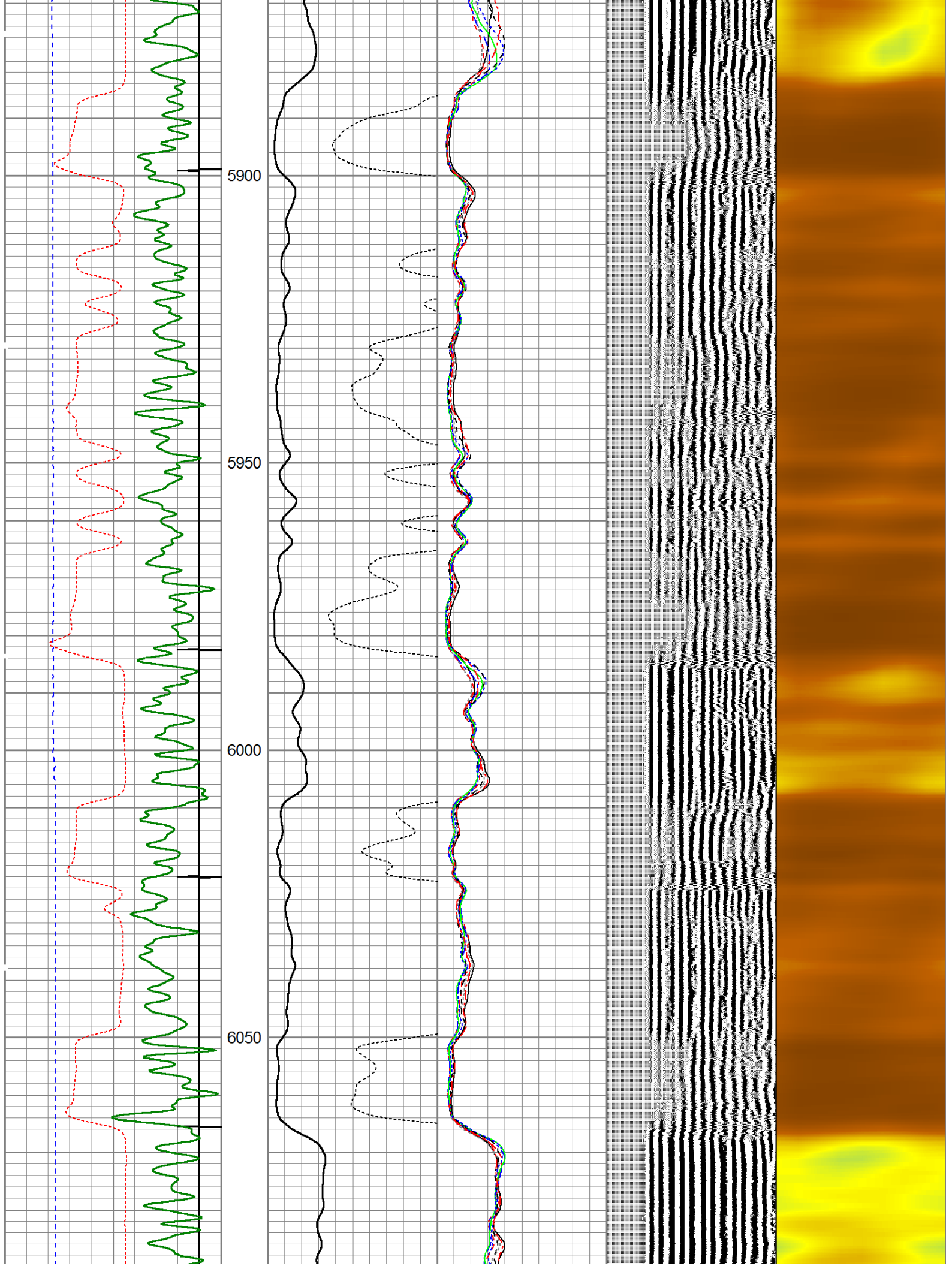


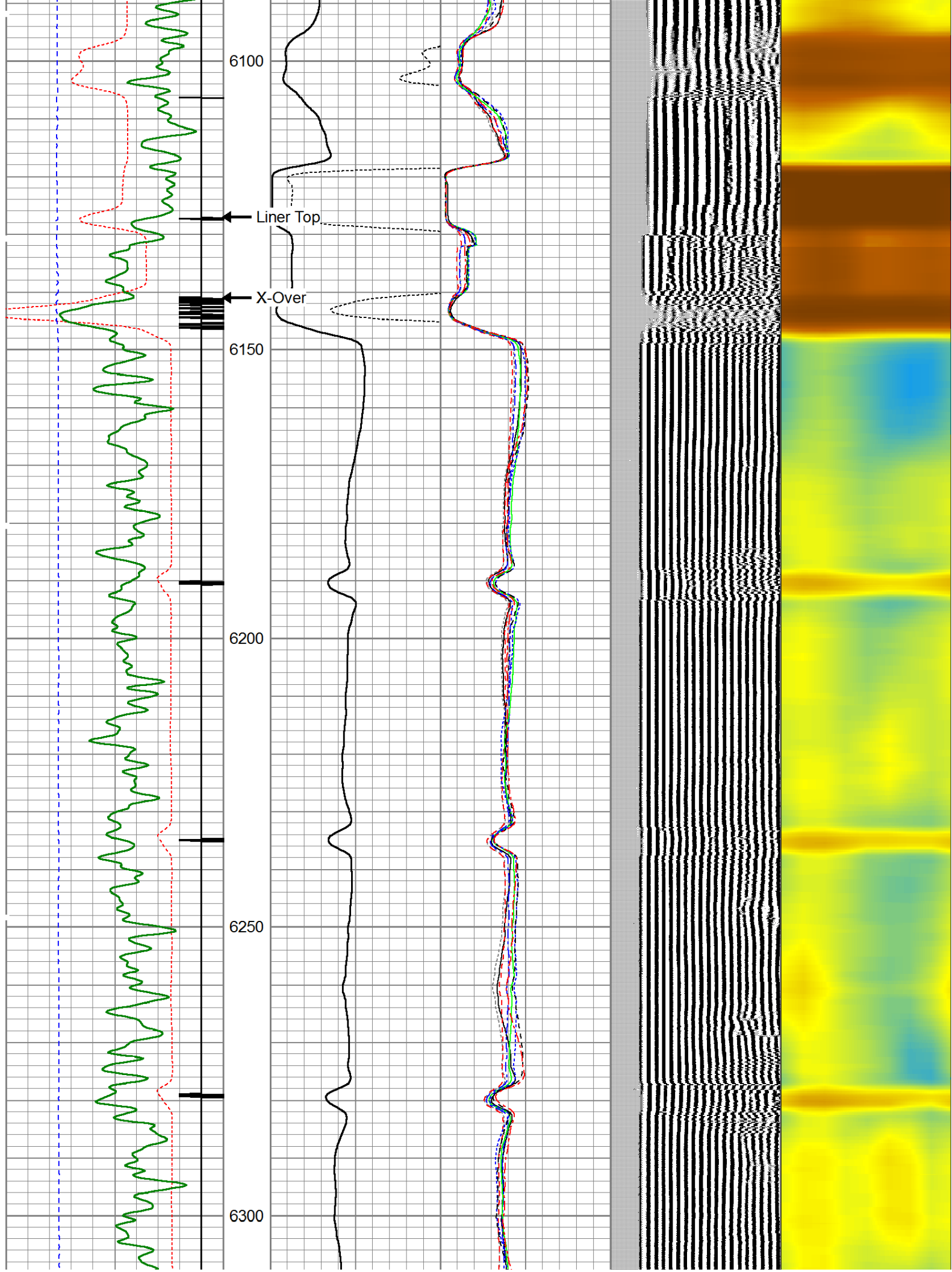


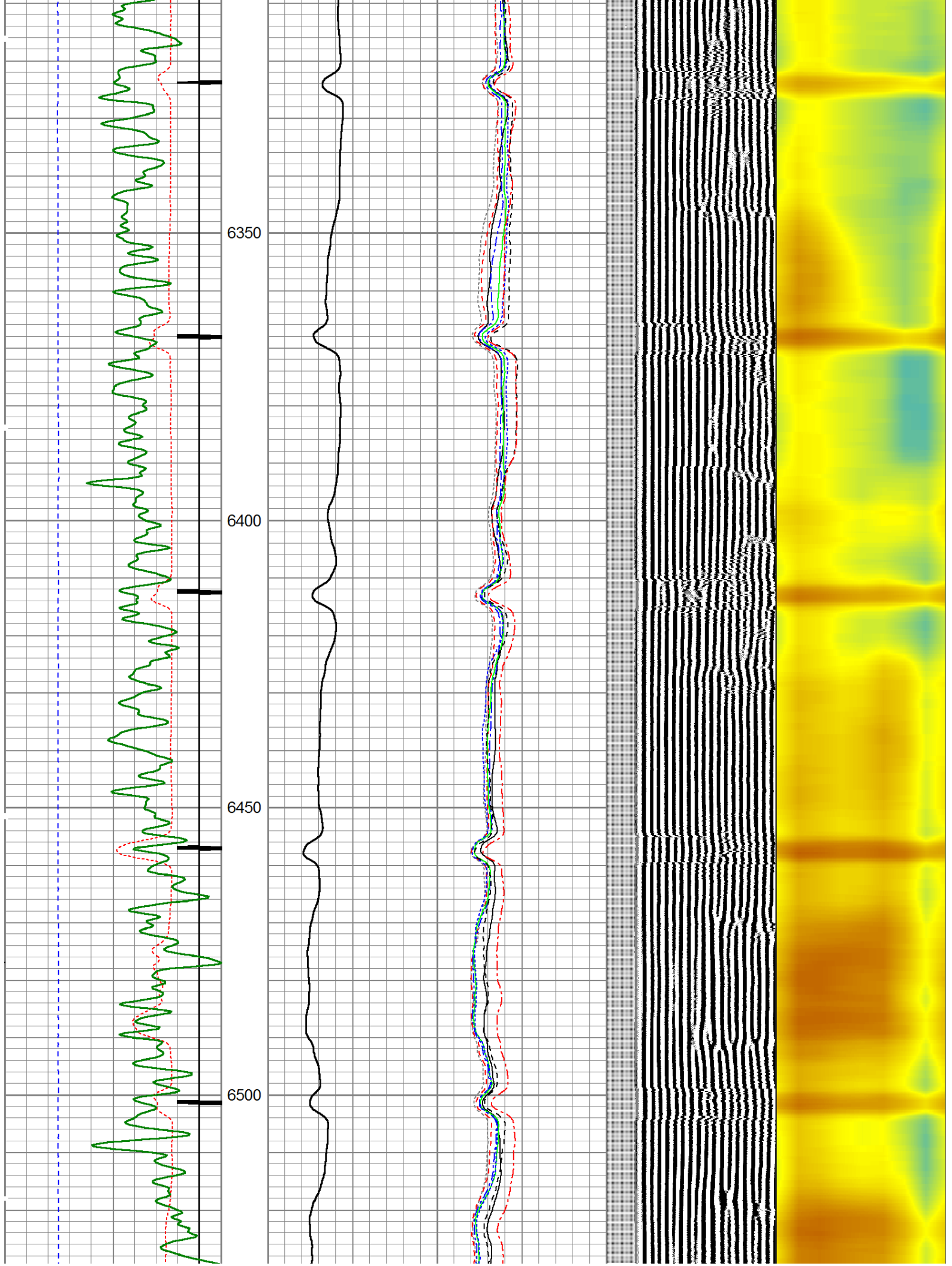


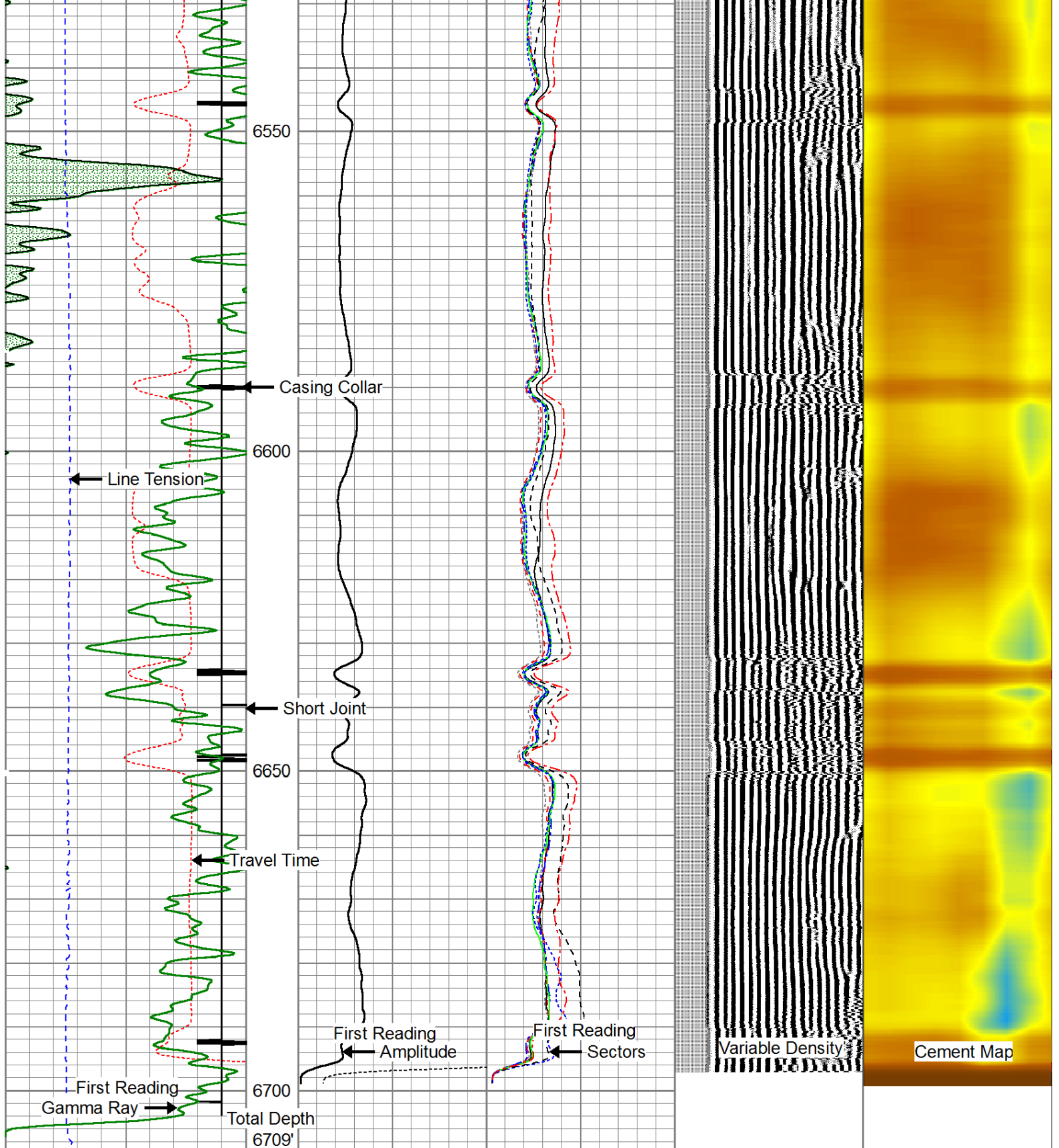












400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

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

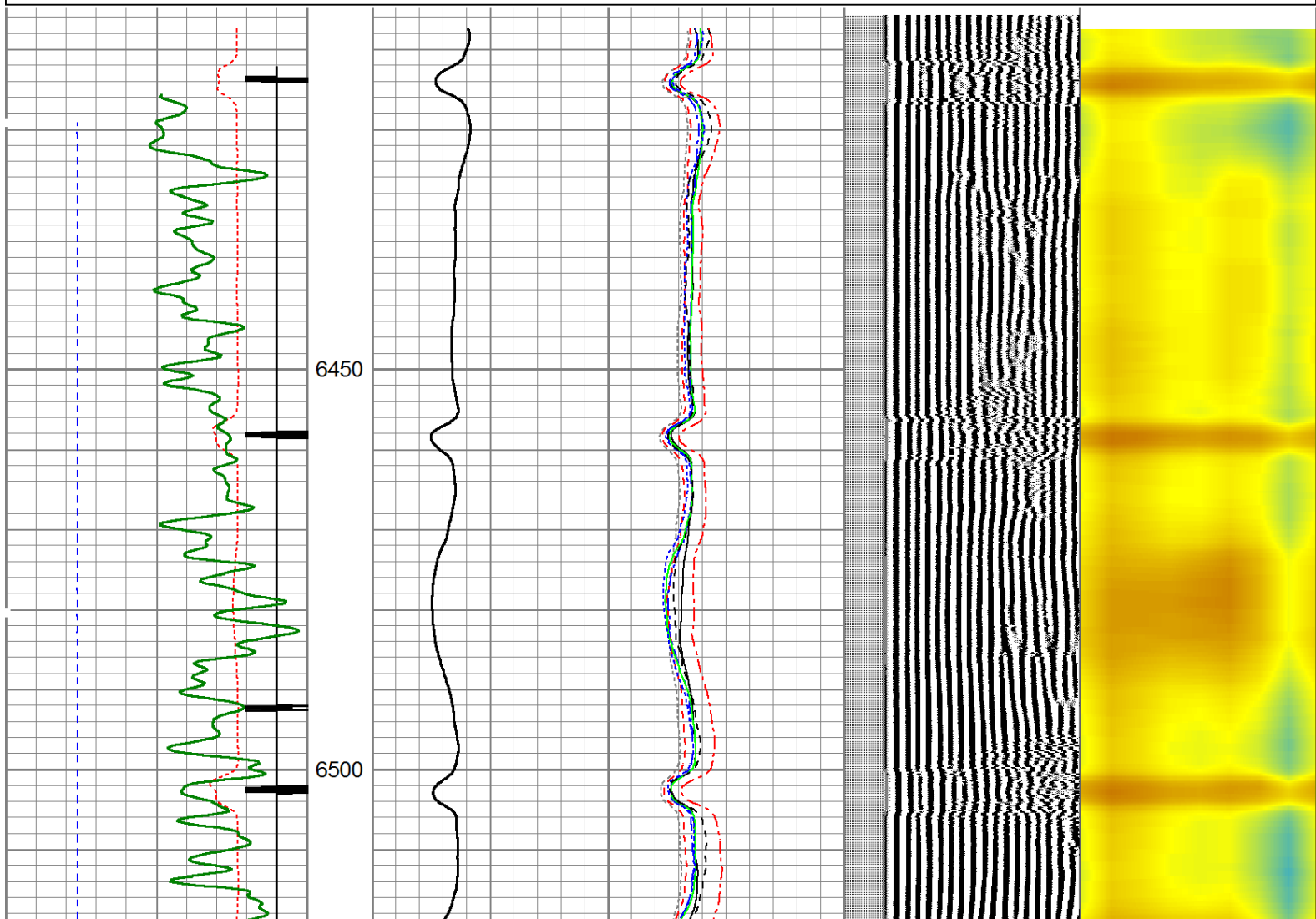
Variable Density	200	1200
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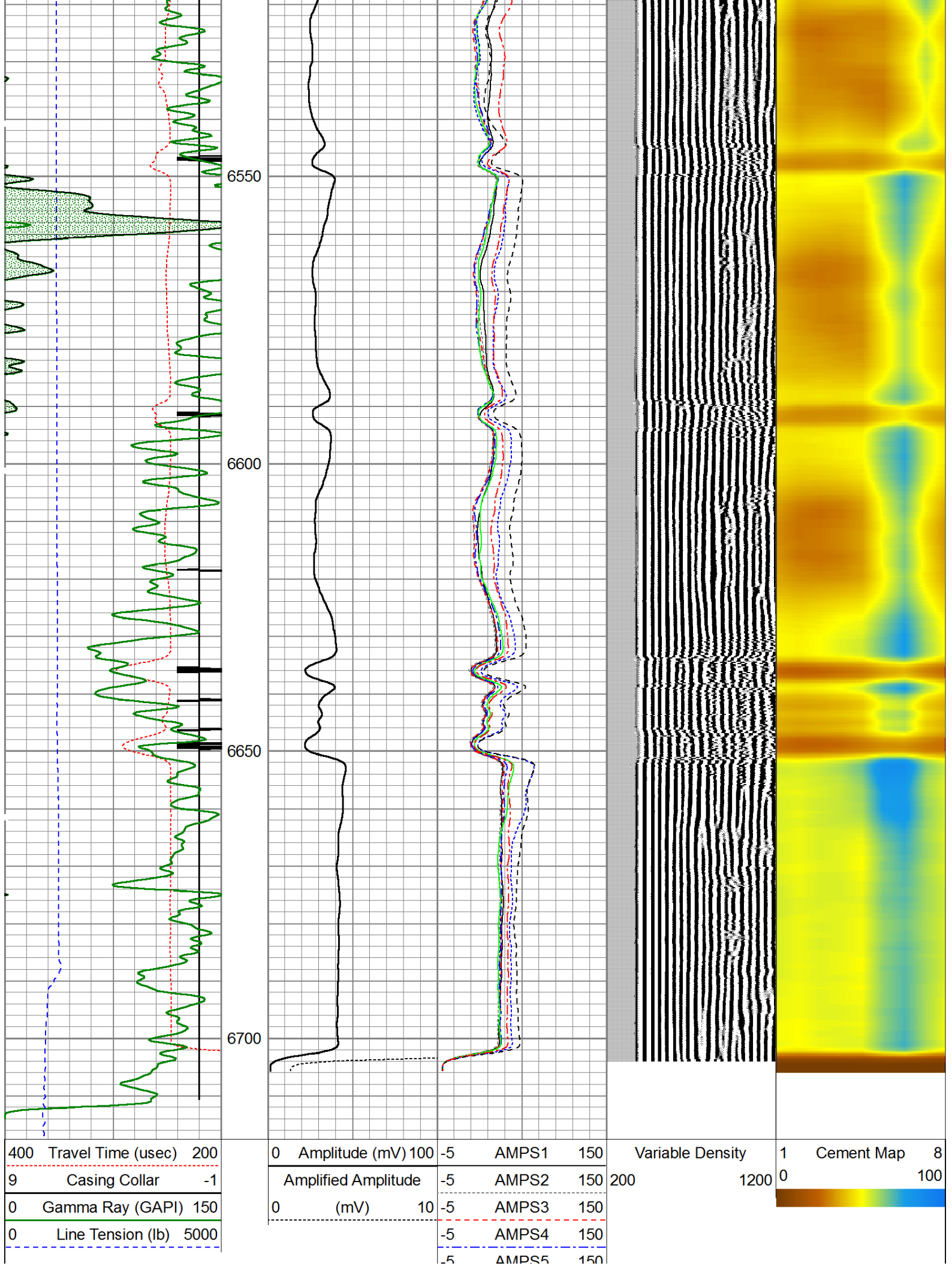
1	Cement Map	8
0		100



Database File: carrizo_jones_18_14_n_59_rcbl.db
 Dataset Pathname: pass6
 Presentation Format: scbl03
 Dataset Creation: Fri Oct 12 11:36:06 2012 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1		Amplified Amplitude		-5	AMPS2	150	200	1200	0	100
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150				
0	Line Tension (lb)	5000				-5	AMPS4	150				
						-5	AMPS5	150				
						-5	AMPS6	150				
						-5	AMPS7	150				
						-5	AMPS8	150				





400	Travel Time (uSec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

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

Variable Density		1	Cement Map	8
200	1200	0		100

-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150



Repeat Section (0 Pressure)

Calibration Report

Database File: carrizo_jones_18_14_n_59_rcbl.db
Dataset Pathname: pass10
Dataset Creation: Fri Oct 12 13:04:11 2012 by Log SCH 111116

Gamma Ray Calibration Report

Serial Number: 120667-Dig
Tool Model: Probe275
Performed: Fri Aug 31 09:51:13 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 120424
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 640.642 ft

Master Calibration, performed Fri Oct 12 11:02:37 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.004	0.716	1.000	62.165	83.286	1.355
CAL	-0.005	0.854				
5'	-0.002	0.673	1.000	62.165	90.618	1.191
SUM						
S1	-0.002	0.770	0.000	100.000	129.606	0.199
S2	-0.000	0.795	0.000	100.000	125.743	0.038
S3	-0.002	0.780	0.000	100.000	127.968	0.212
S4	-0.001	0.727	0.000	100.000	137.305	0.156
S5	-0.002	0.671	0.000	100.000	148.654	0.225
S6	-0.002	0.630	0.000	100.000	158.333	0.251
S7	0.001	0.628	0.000	100.000	159.626	-0.236
S8	-0.002	0.677	0.000	100.000	147.343	0.245

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	-0.005	0.854	1.000	0.000

	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

Log Variables

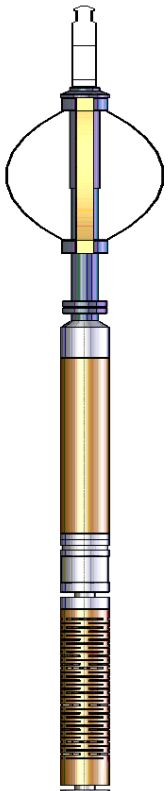
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Dataset: field/well/run1/pass10

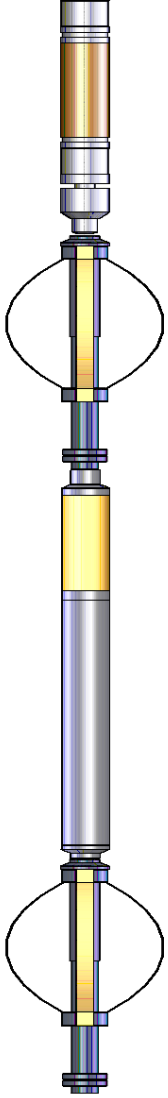
Top - 6132.00 ft

CASEWGHT lb/ft 23	MAXAMPL mV 61.8	CASEOD in 7
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6132.00 ft - Bottom

PPT usec 0	CASEWGHT lb/ft 11.6	MAXAMPL mV 81.2	MINAMPL mV 1	MINATTN db/ft 0.8	CASEOD in 4.5	PERFS 0	TDEPTH ft 0
BOTTEMP degF 100	BOREID in 7.875						

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	23.16		Titan Cable_head	1.00	1.44	10.00
CENT	22.16		Probe275 2.75" Centralizer	2.88	2.75	20.00
WVF3FT WVFCAL WVFS1	14.72 14.72 14.72		RBT-Probe (120424) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00

WVFS2	14.72		Probe275 2.75" Centralizer	2.88	2.75	20.00
WVFS3	14.72					
WVFS4	14.72					
WVFS5	14.72					
WVFS6	14.72					
WVFS7	14.72					
WVFS8	14.72					
WVF5FT	13.72					
CENT	10.53					
GR	7.66					
CCL	6.75					
GR	5.42		GR-Probe275 (120667-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
CENT	2.88		Probe275 2.75" Centralizer	2.88	2.75	20.00

Dataset: carrizo_jones_18_14_n_59_rcbl.db: field/well/run1/pass10

Total Length: 23.16 ft

Total Weight: 217.00 lb

O.D. 2.75 in