



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

Company	Noble Energy		
Well	No Worries PC G14-63-1HN		
Field	Wattenberg		
County	Weld	State	Colorado
Location:	API # : 05-123-36328		Other Services Temp
BHL: 1000' FSL & 535' FEL			
SEC 14	TWP 4N	RGE 65W	Elevation
Permanent Datum	Ground Level	Elevation	4695'
Log Measured From	24' Kelly Bushing	D.F. 4718'	G.L. 4695'
Drilling Measured From	Kelly Bushing		
Date	February 22, 2014		
Run Number	1		
Depth Driller	11310'		
Depth Logger	7251'		
Bottom Logged Interval	7238'		
Top Log Interval	Surface		
Open Hole Size	8.75		
Type Fluid	Fresh Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	219 Deg F		
Estimated Cement Top	186'		
Time Well Ready	13:25		
Time Logger on Bottom	13:54		
Equipment Number	13033		
Location	Brighton		
Recorded By	Cody Rall		
Witnessed By	B. Mansfield		
Borehole Record			
Run Number	Bit	From	To
One			
Two			
Three			
Four			
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8	36#	Surface
Prot. String			
Production String	7	26#	Surface
Liner	4 1/2	11 6#	7247'
Short Joint			5972'

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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

Primary Log on Well. Well Logged using 24' KB.

Main Pass logged w/2500 PSI  
Repeat Pass logged w/0 PSI

Estimated Top Of Cement 186'  
Short Joint @ 5972' To 5986'

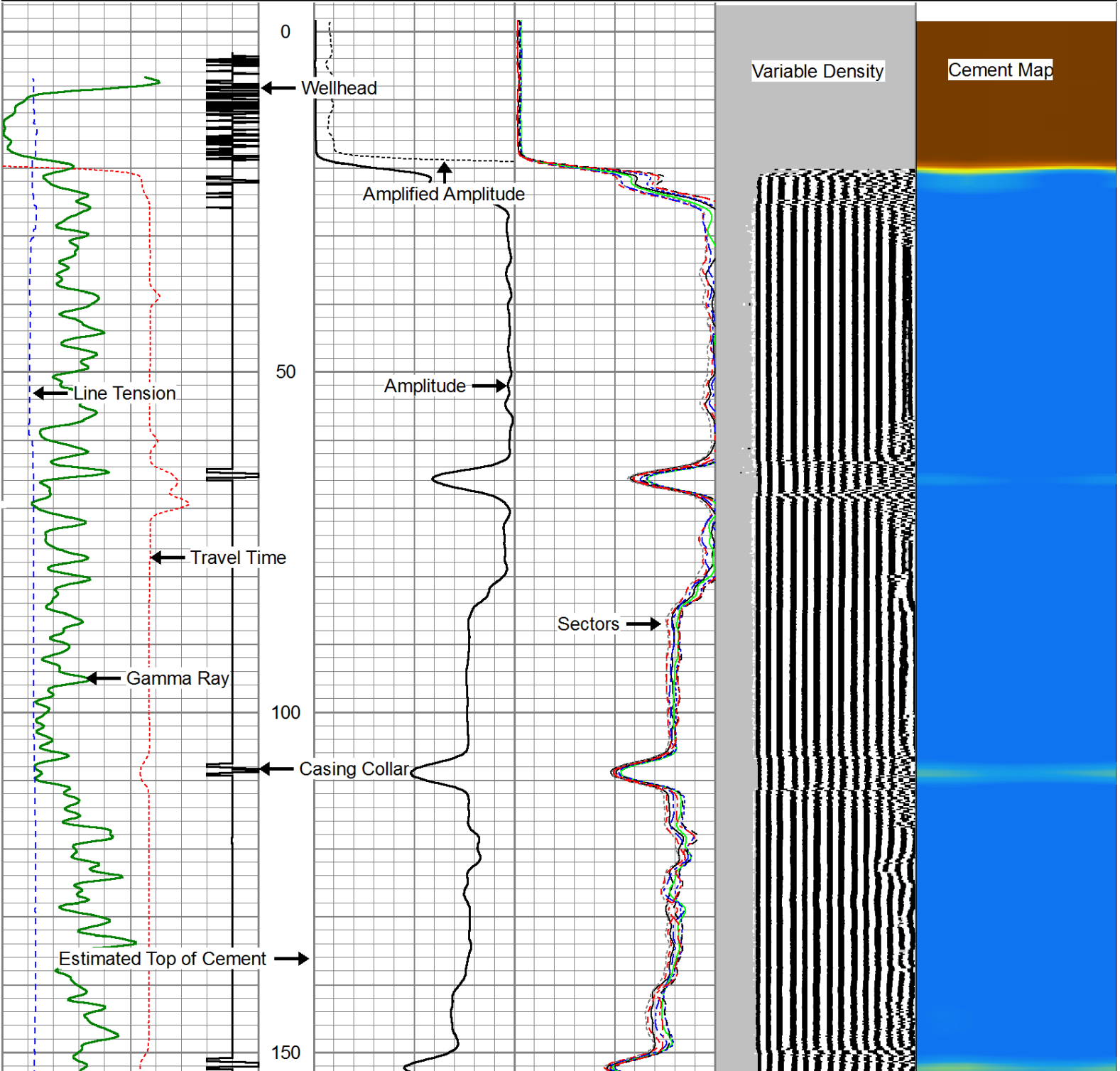
Logging Speed Requested By Company Representative  
Thank you for using Allied Wireline  
(303)659-4609

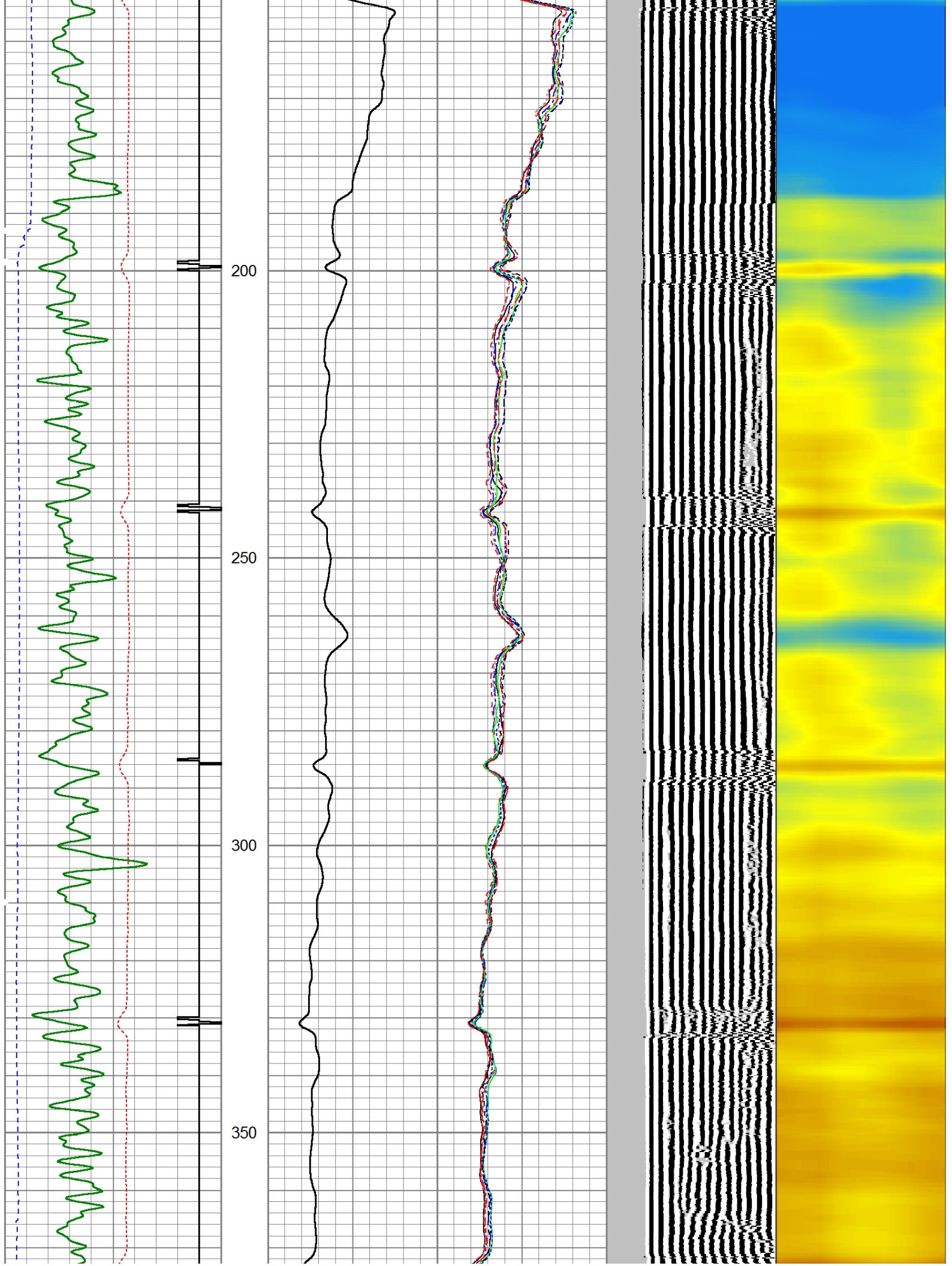


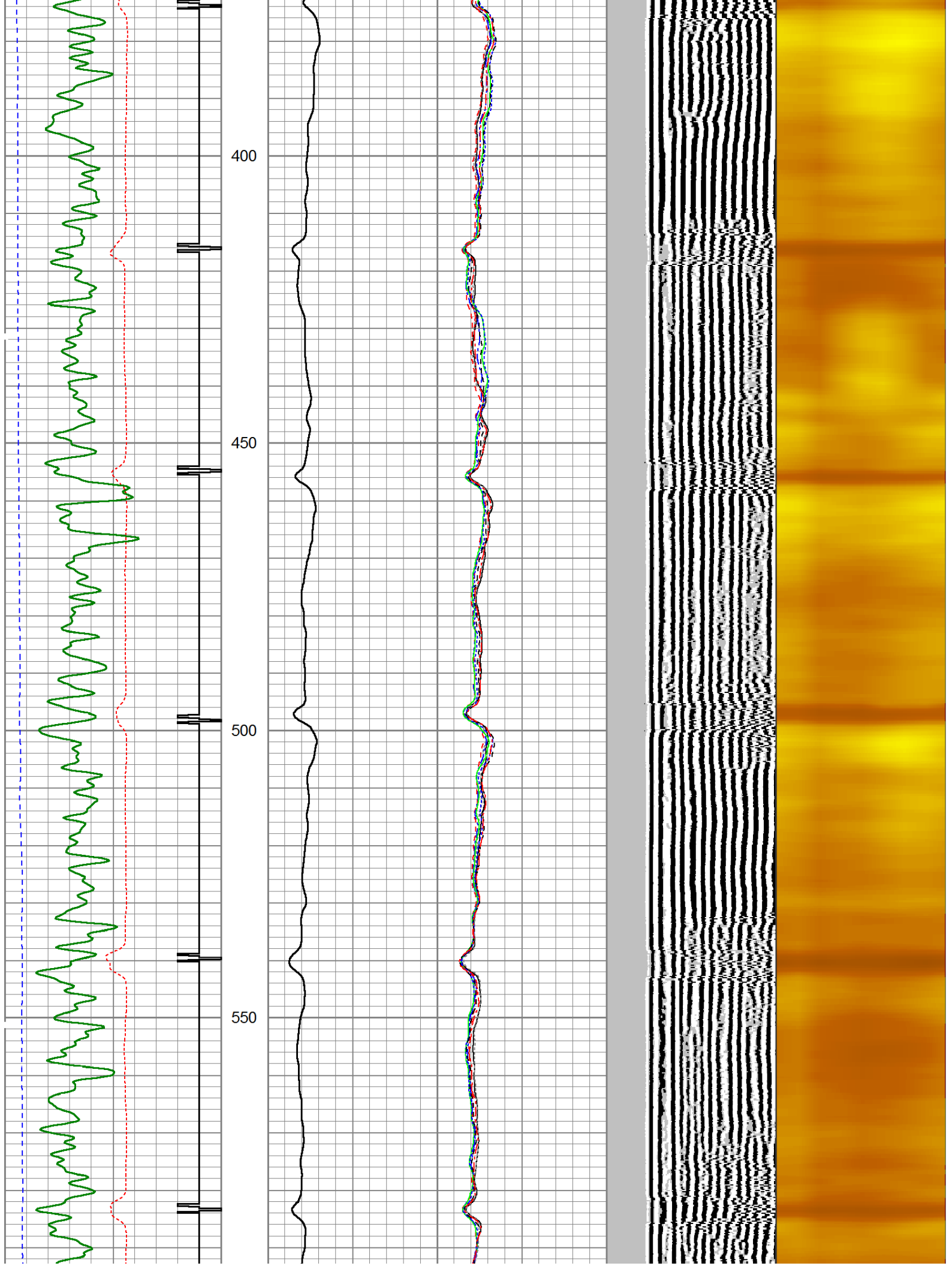
Main Pass ( 2500 PSI )

Database File: noble energy no worries g14-63-1hn\_rcbl.db  
Dataset Pathname: merge1  
Presentation Format: scbl03  
Dataset Creation: Sat Feb 22 17:05:21 2014  
Charted by: Depth in Feet scaled 1:240

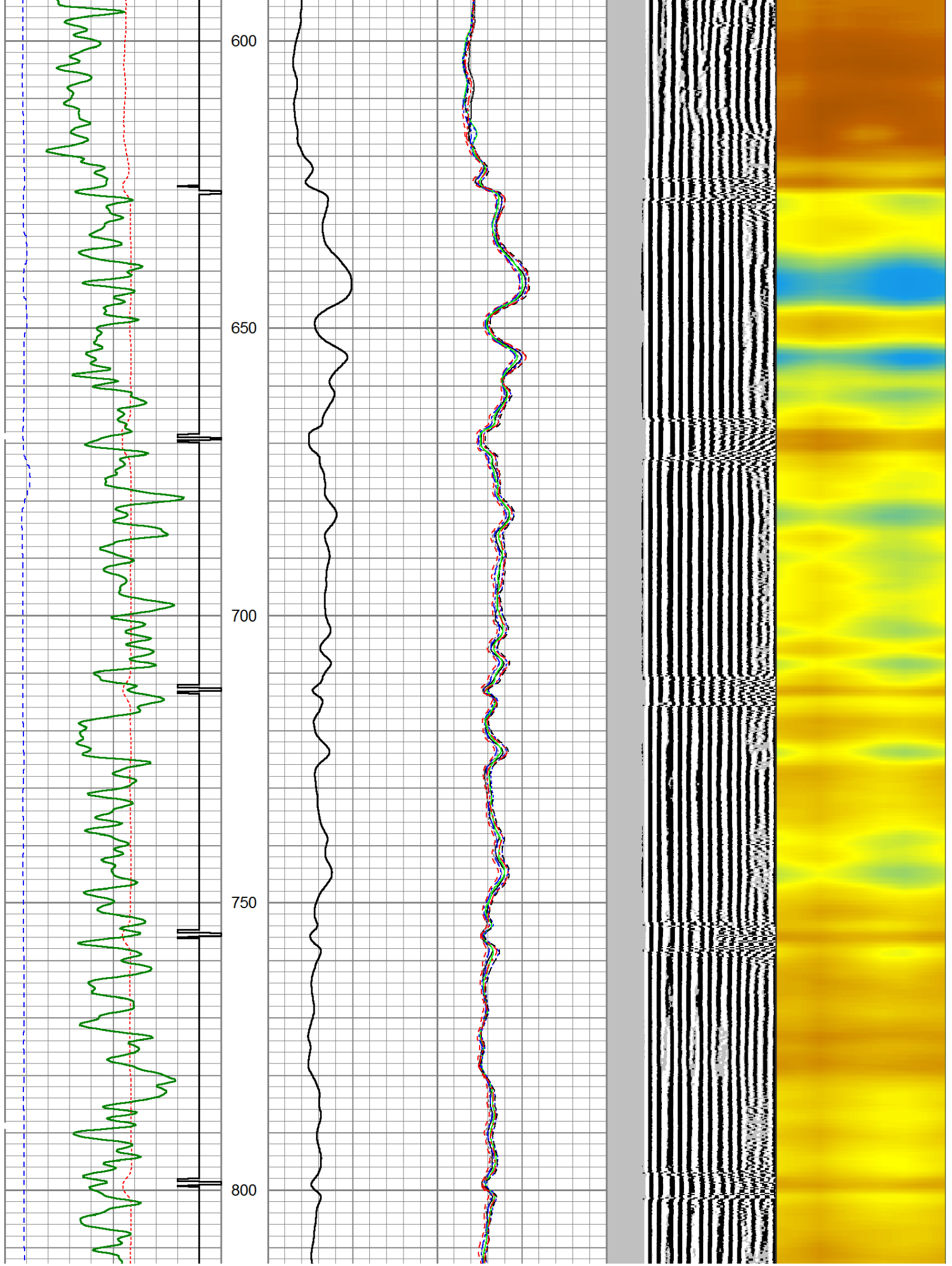
400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1		Amplified Amplitude		-5	AMPS2	150	200	1200	0	100
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150				
0	Line Tension (lb)	2000				-5	AMPS4	150				
						-5	AMPS5	150				
						-5	AMPS6	150				
						-5	AMPS7	150				
						-5	AMPS8	150				

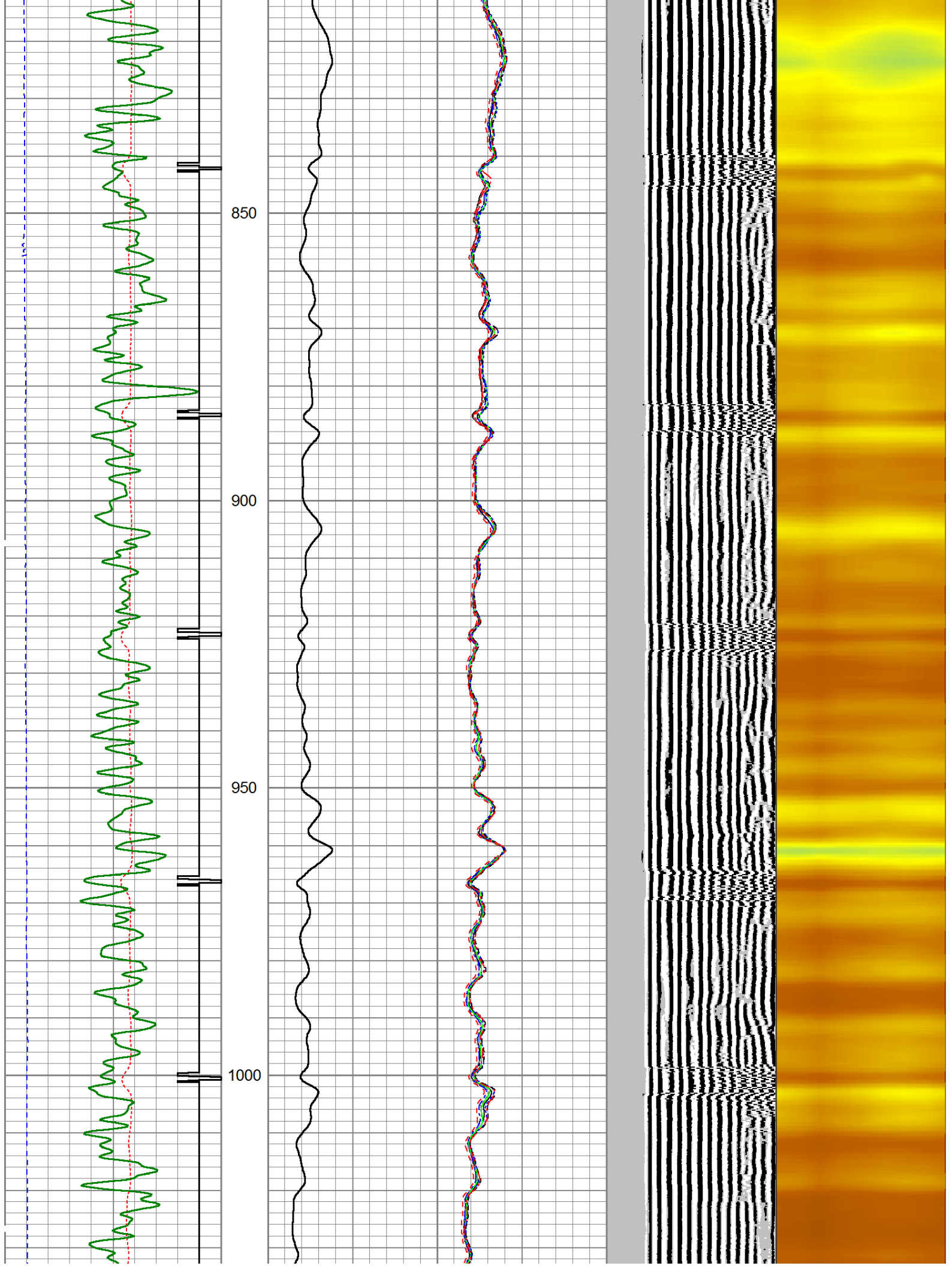


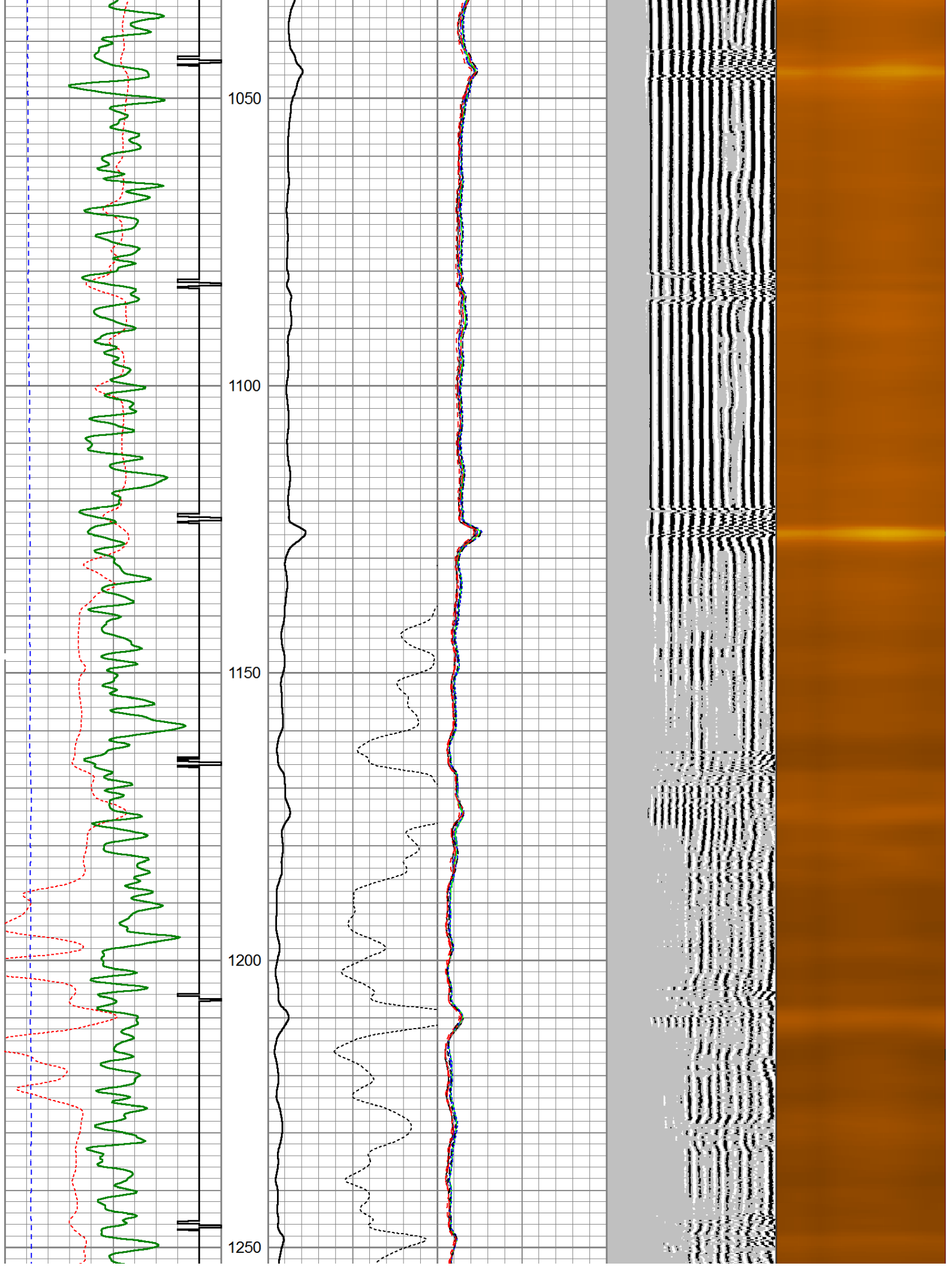


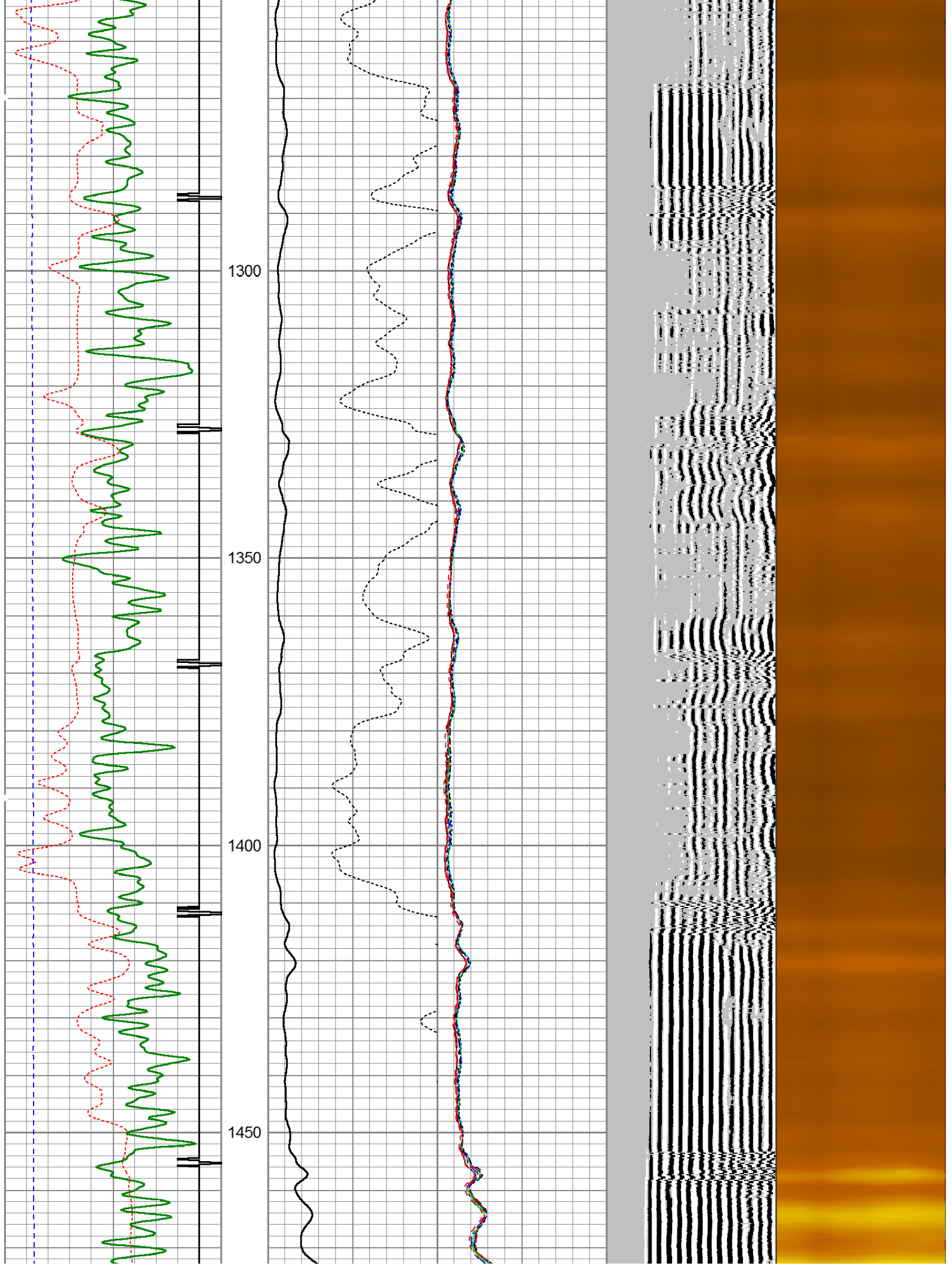


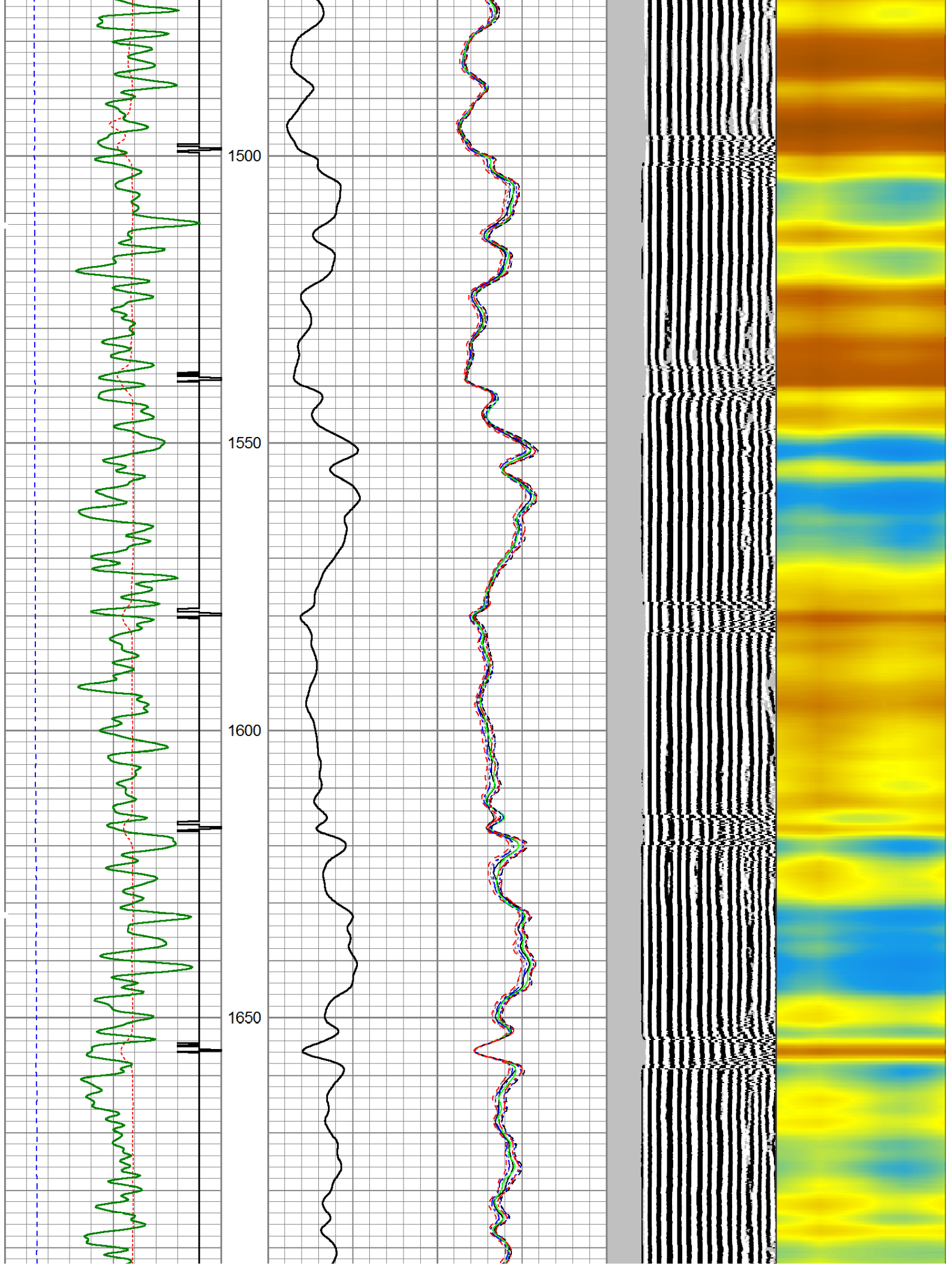




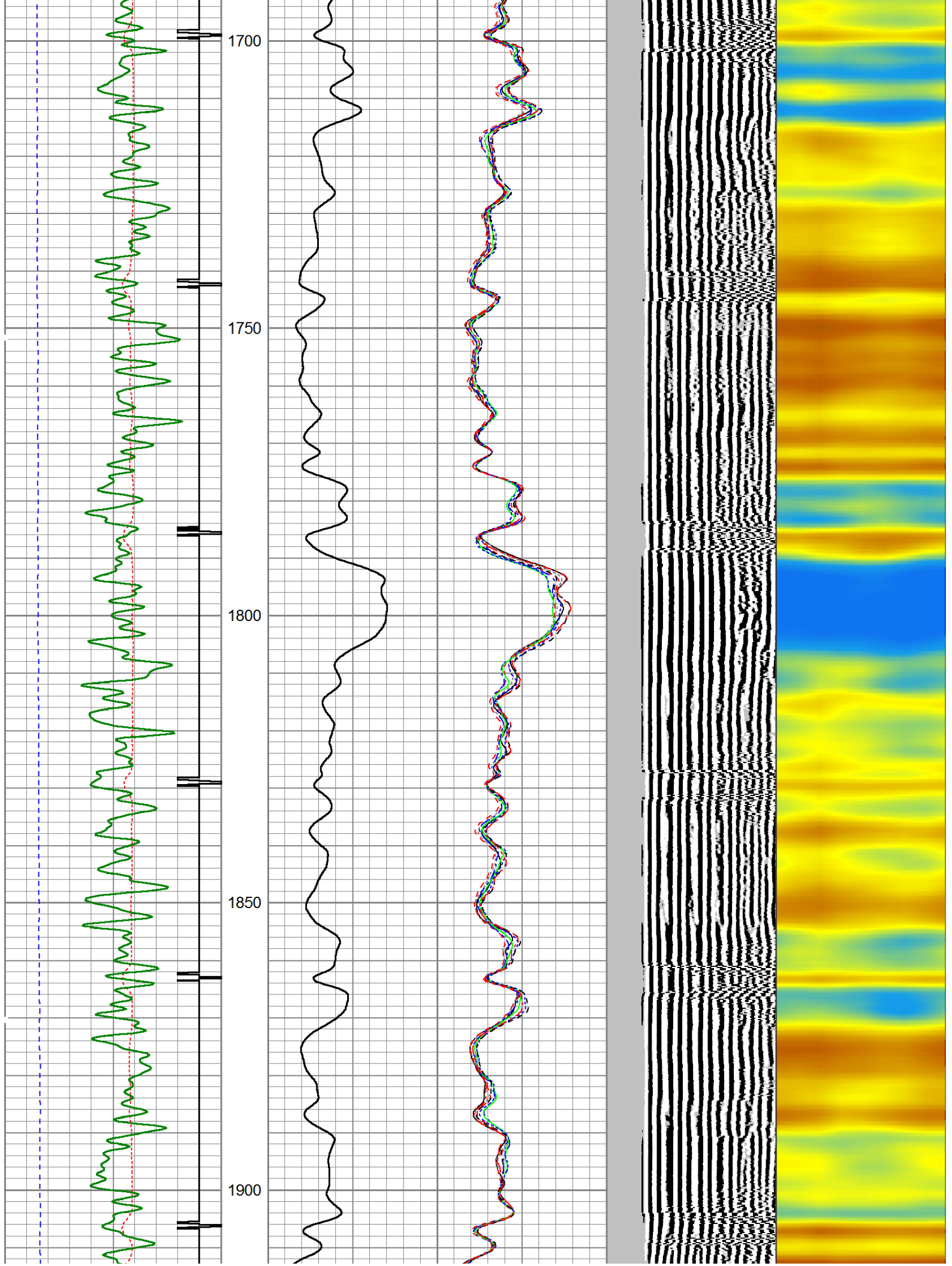




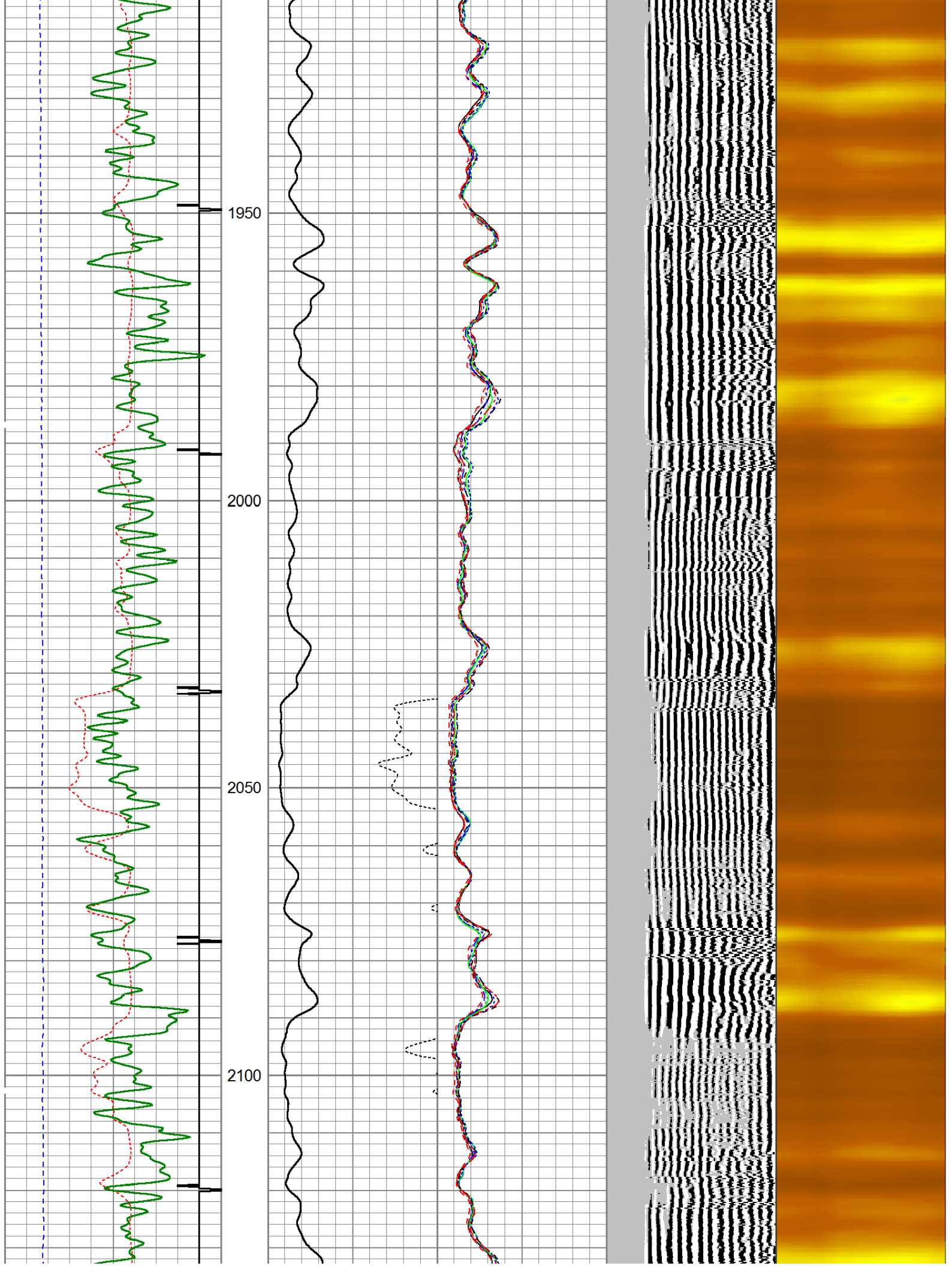


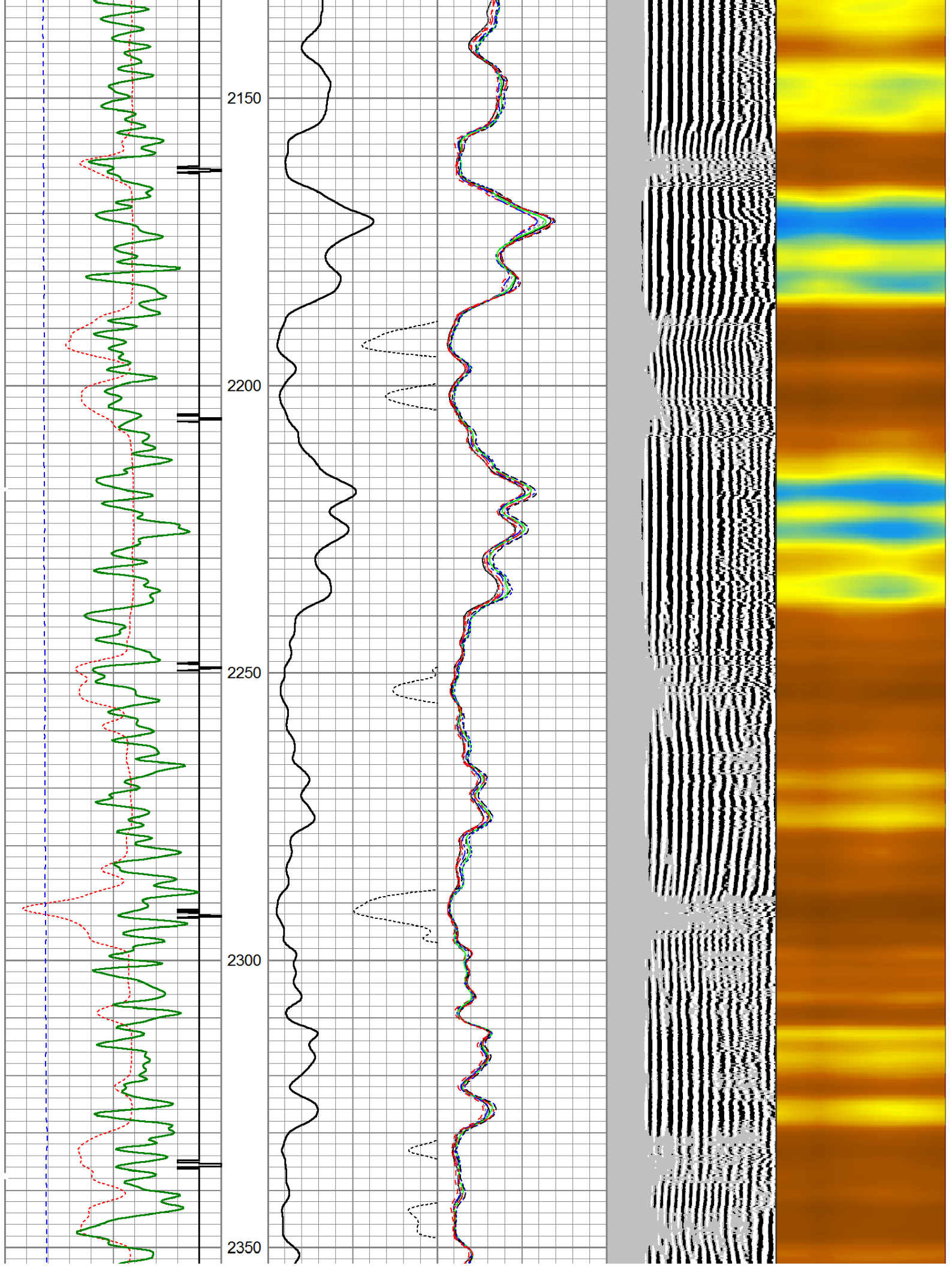


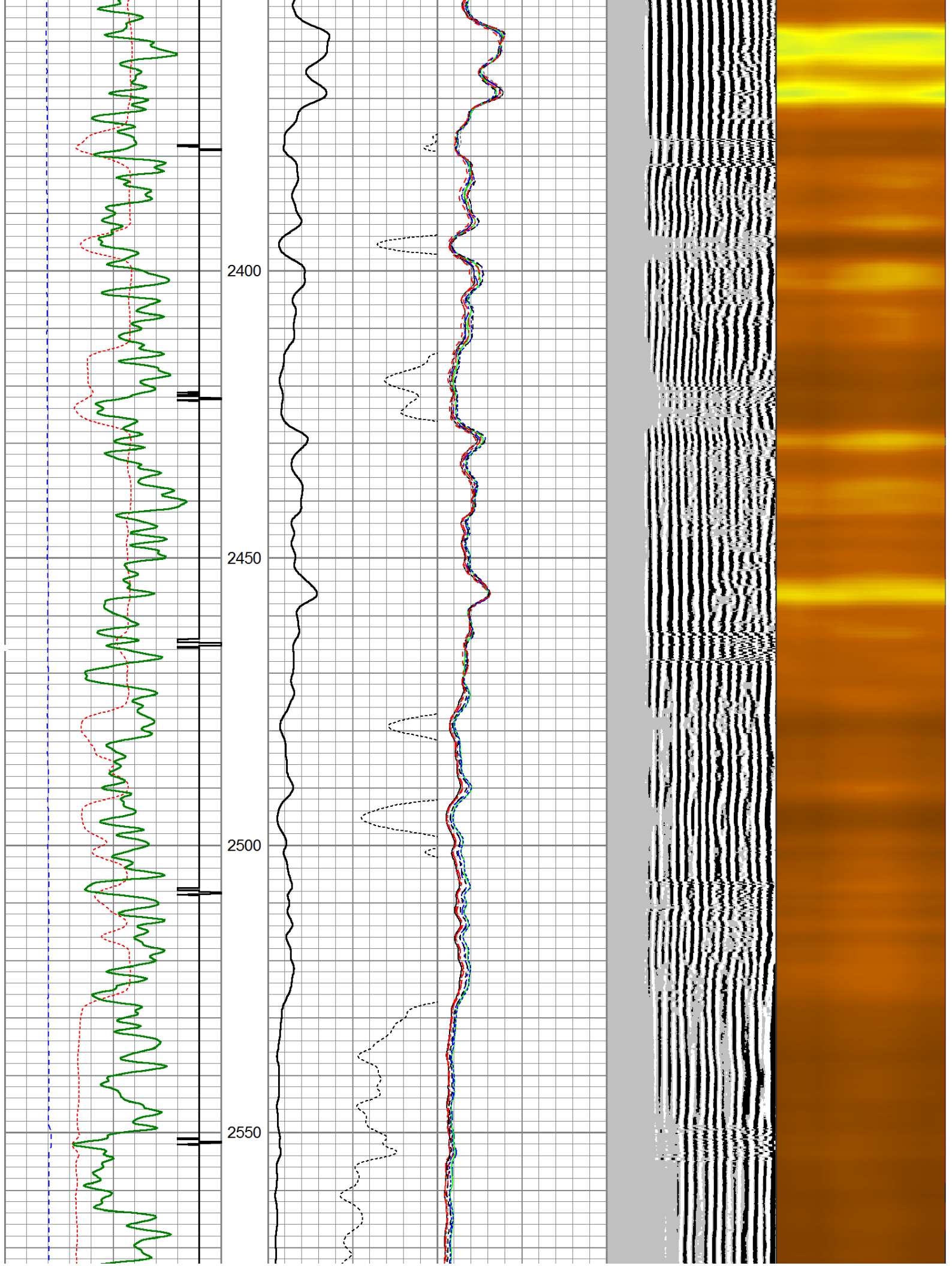


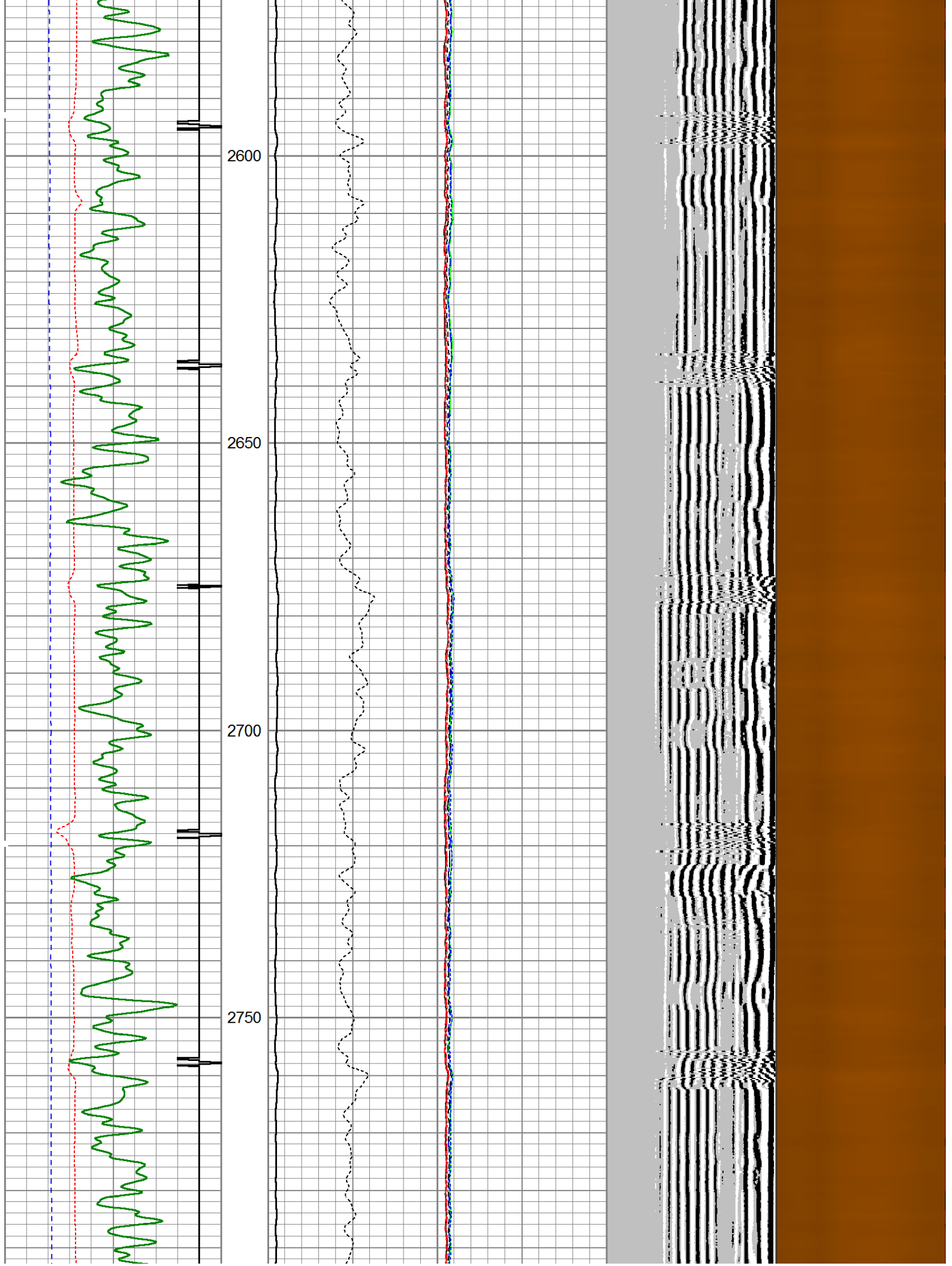


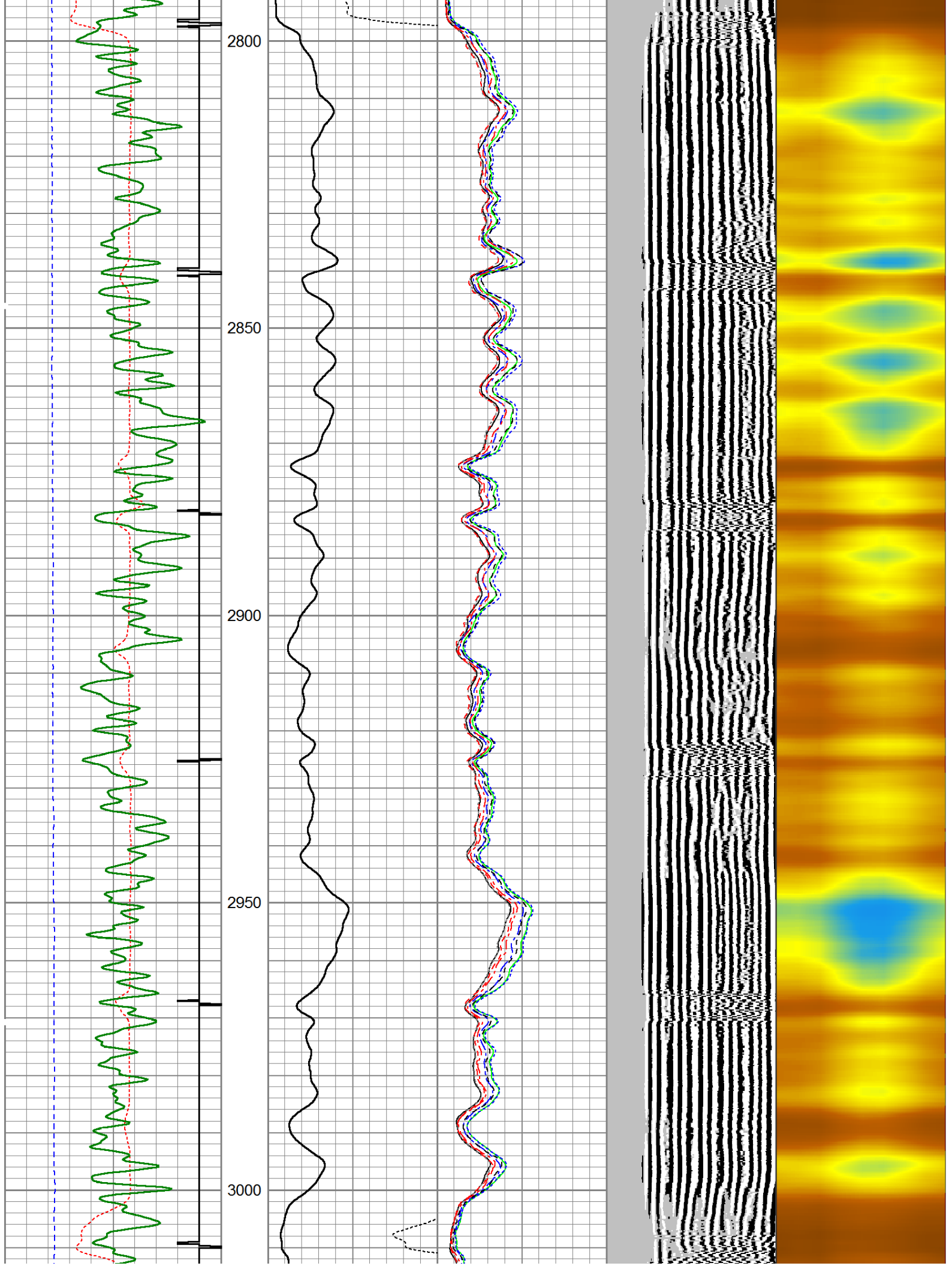




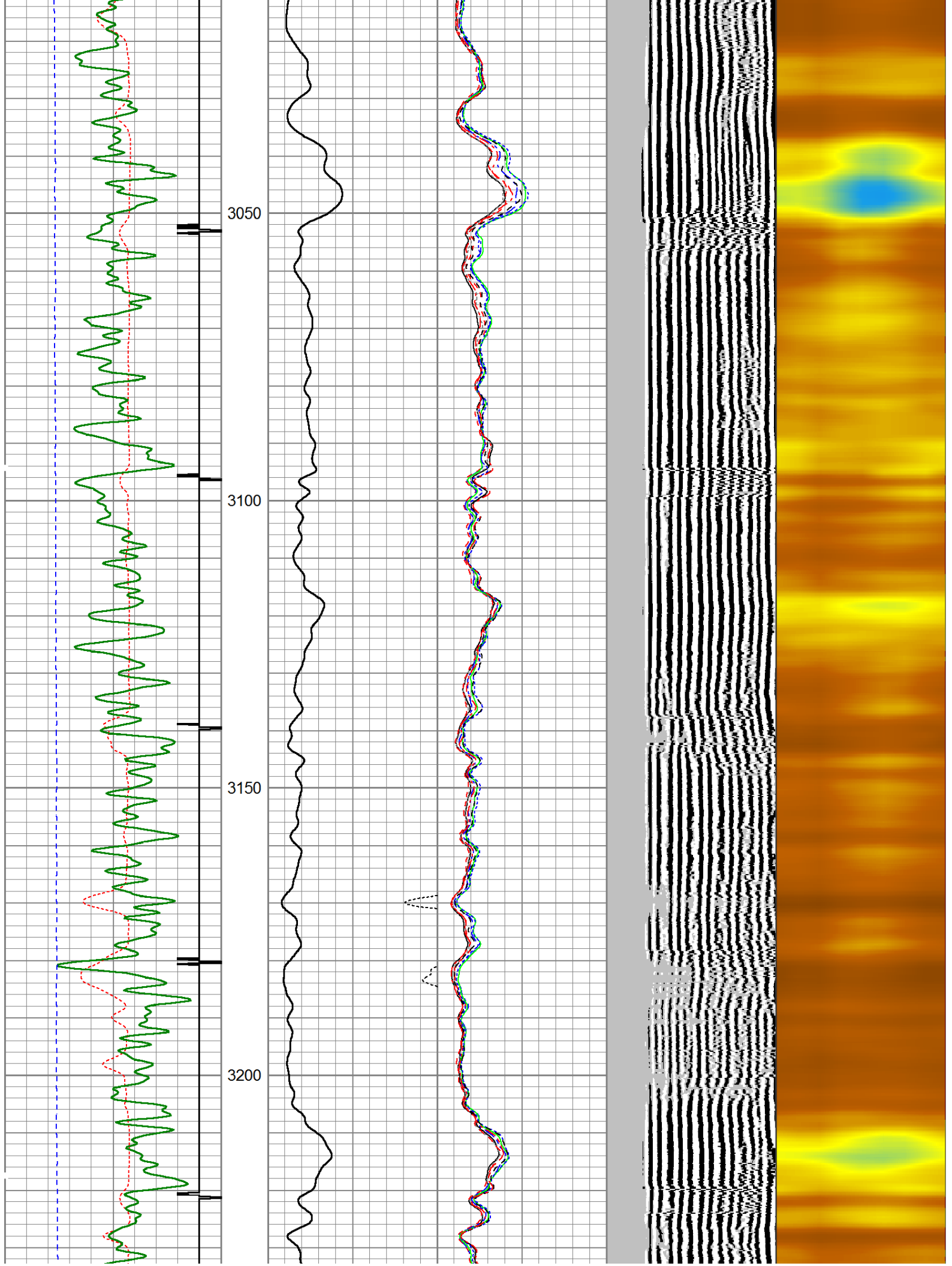




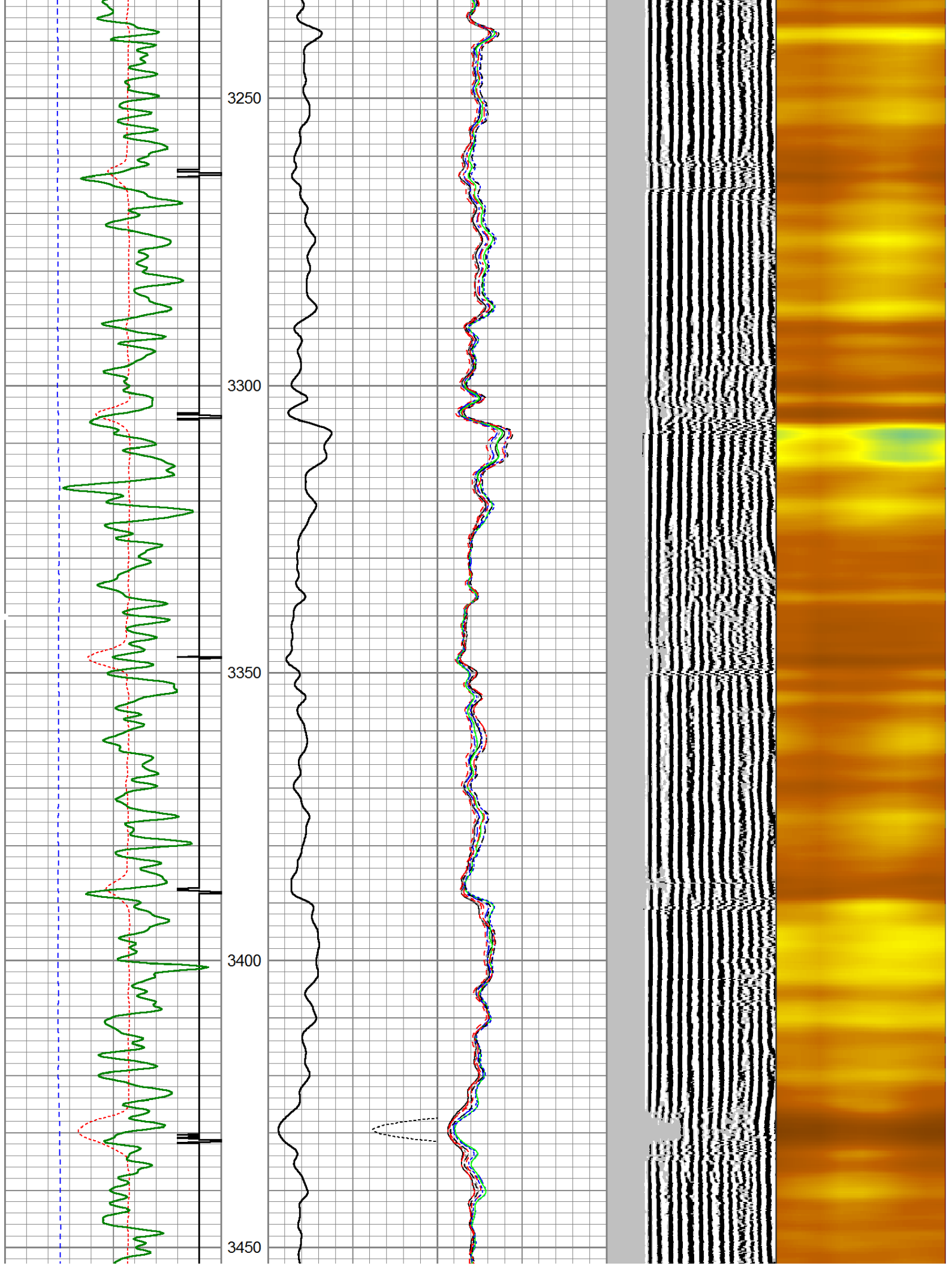


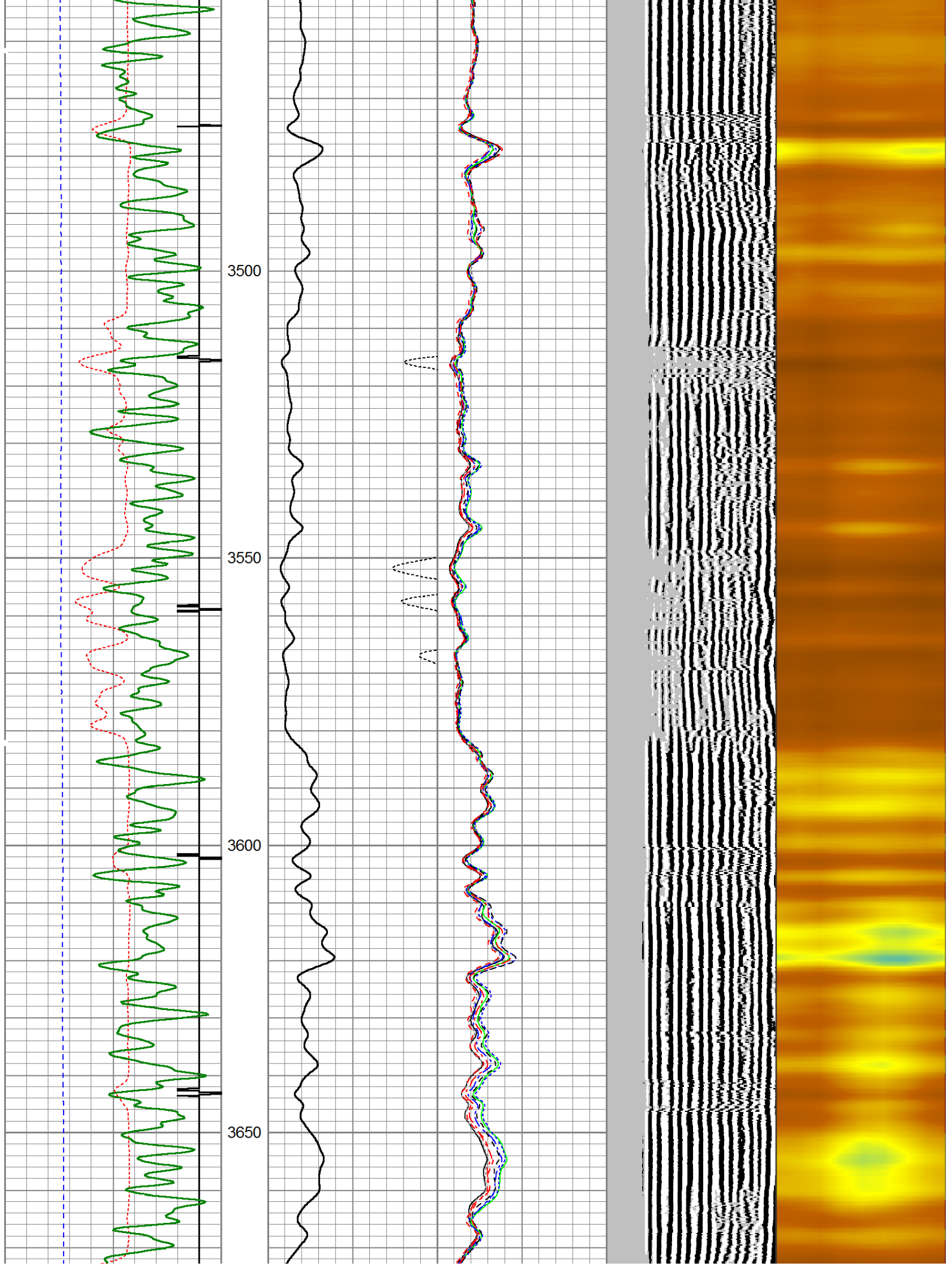


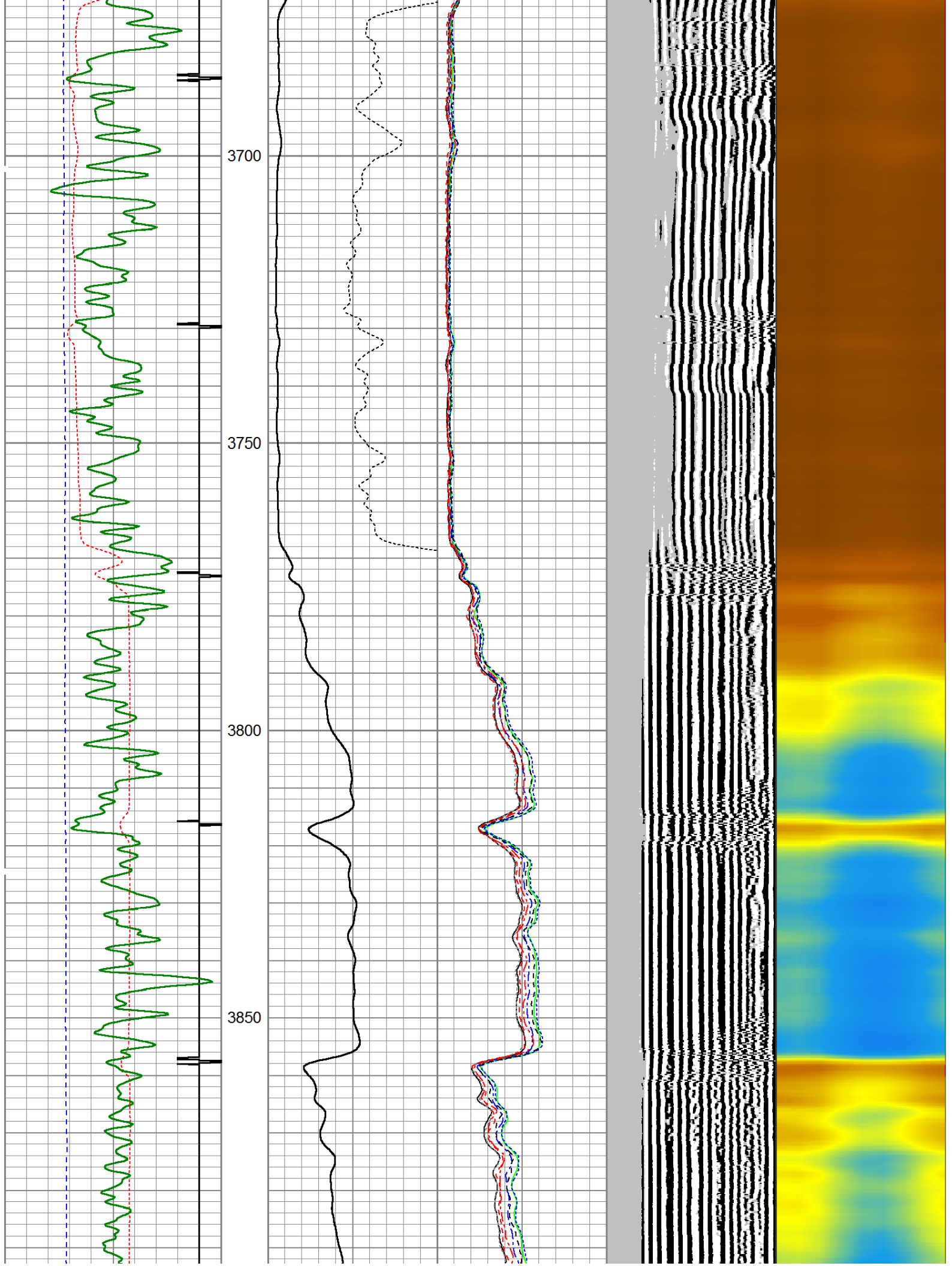


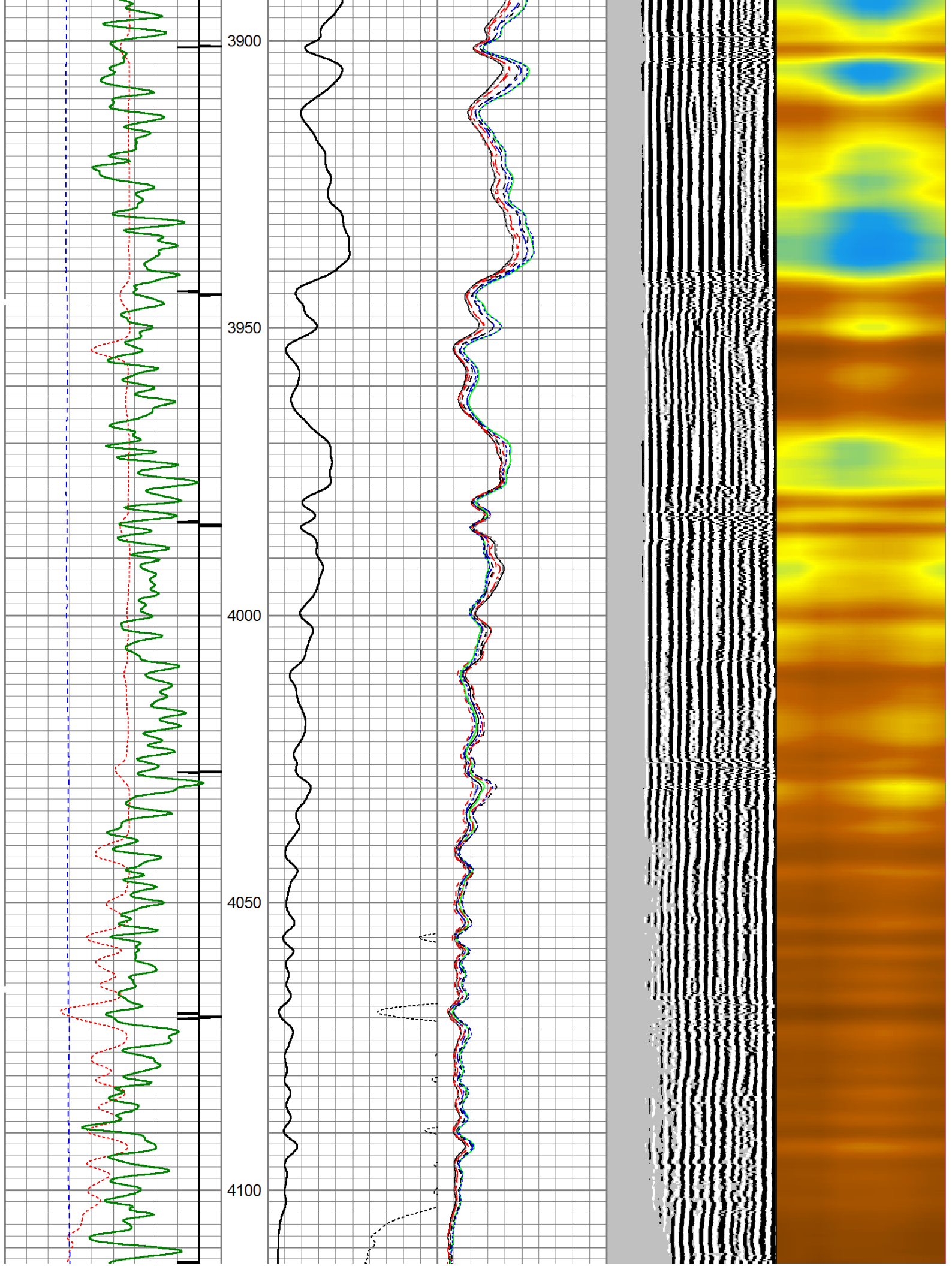


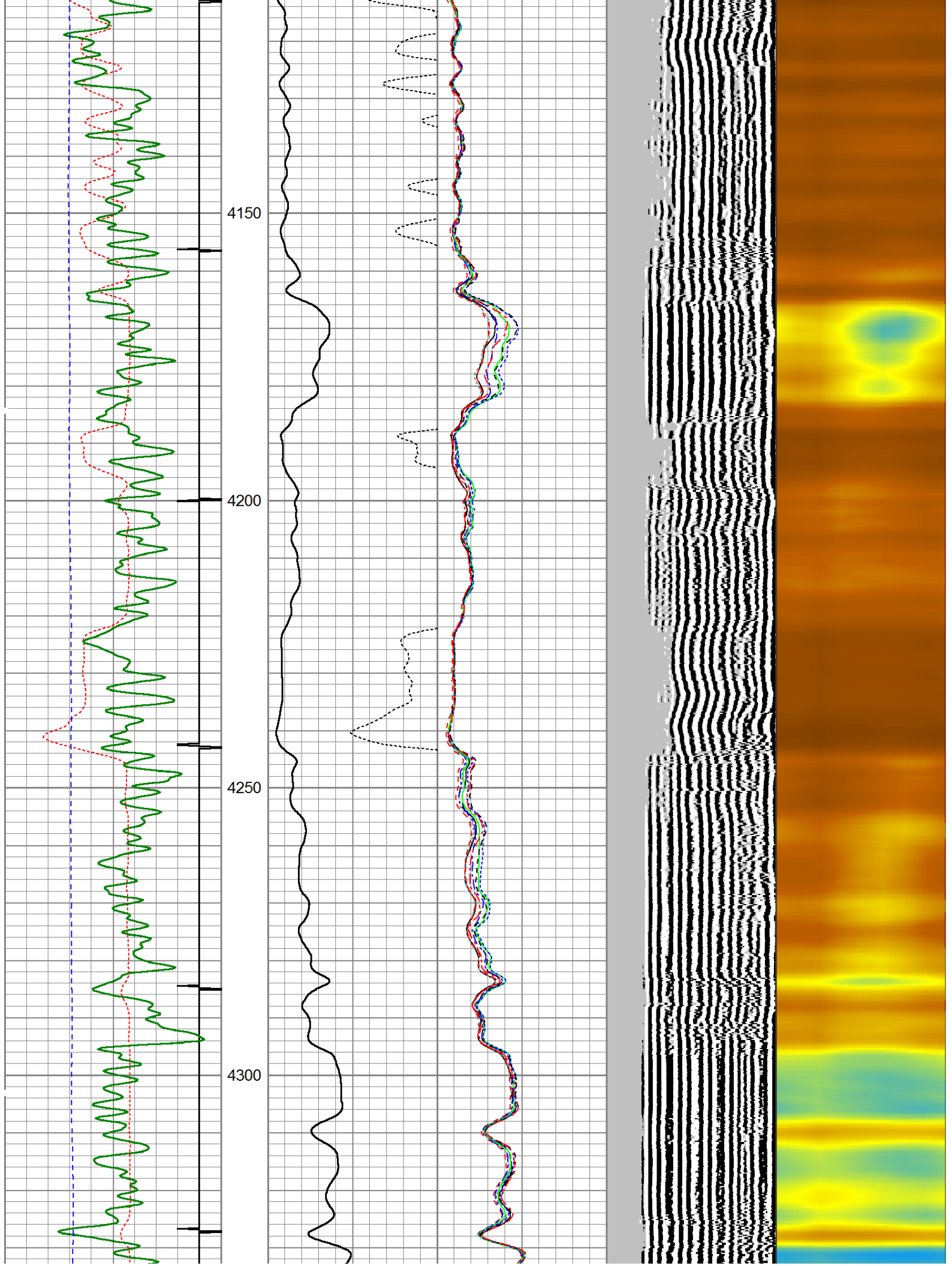




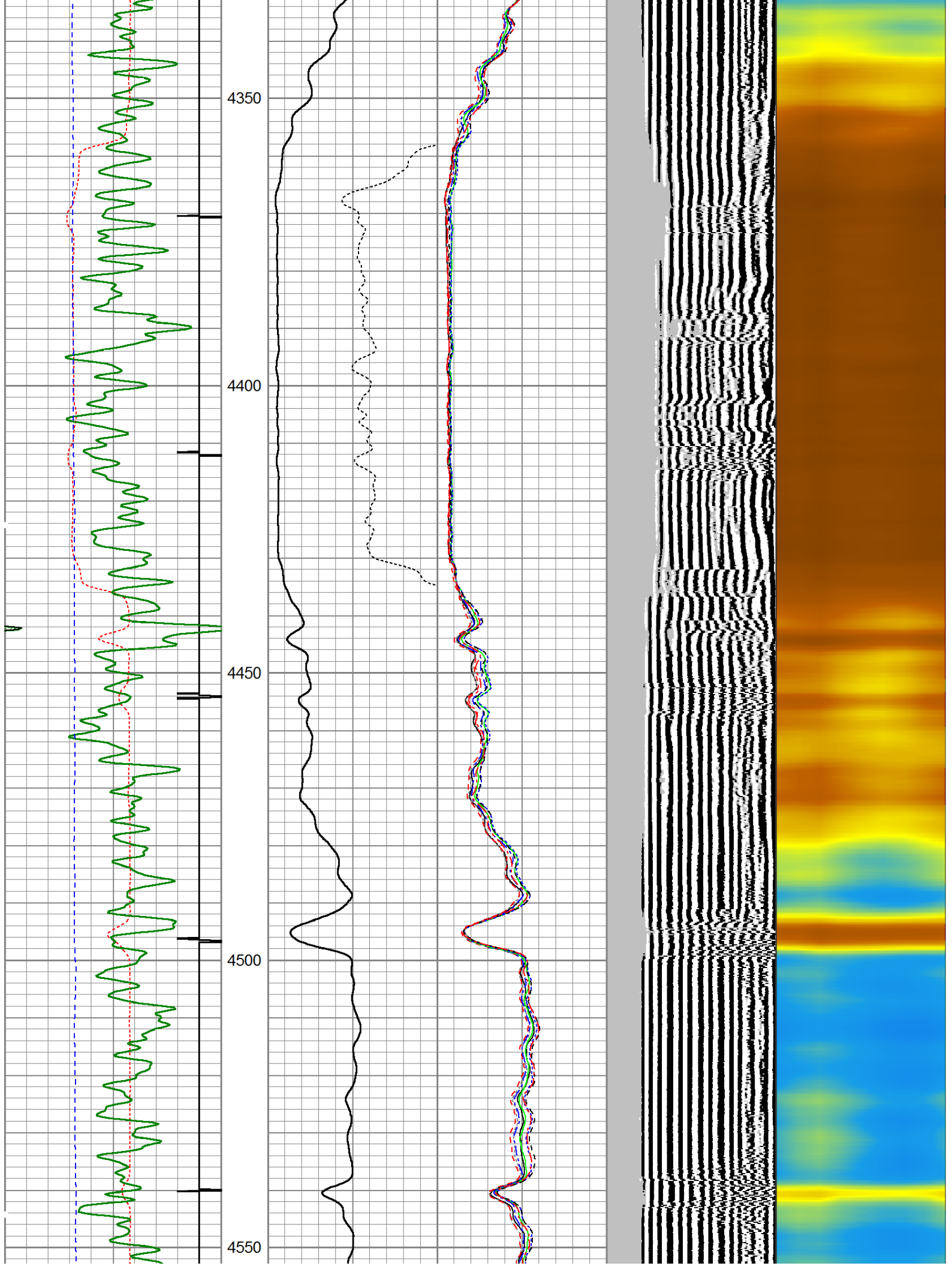




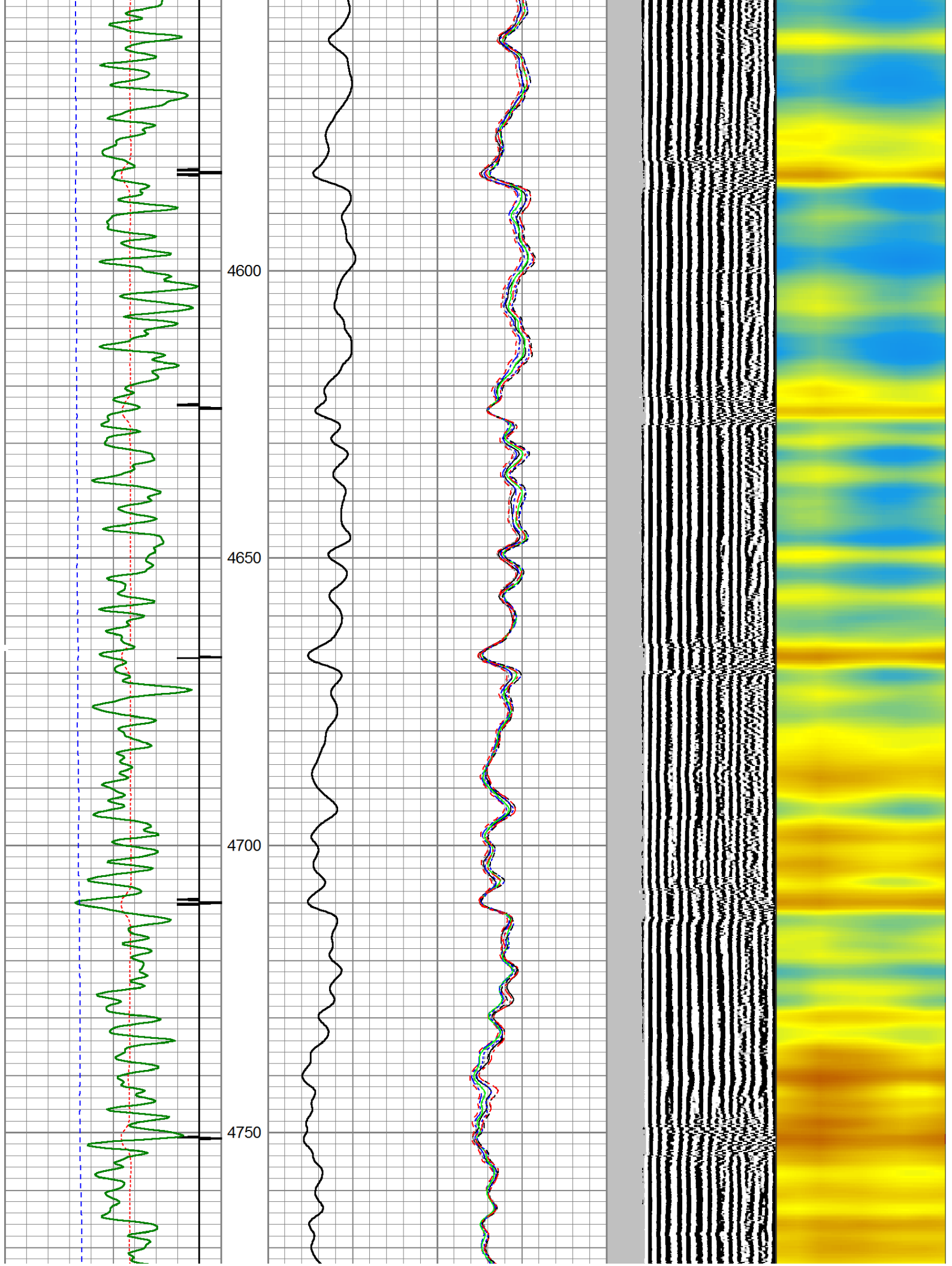


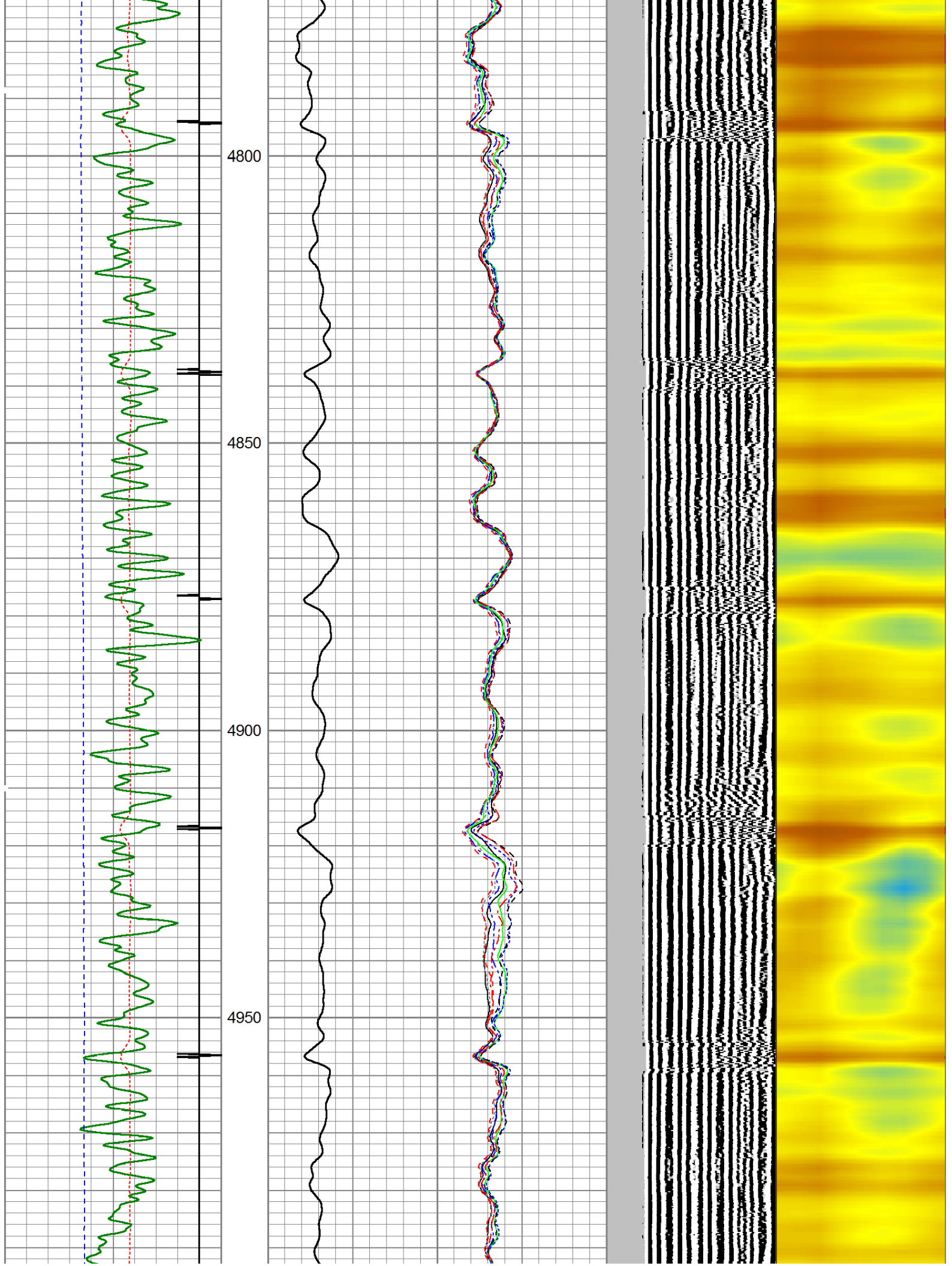


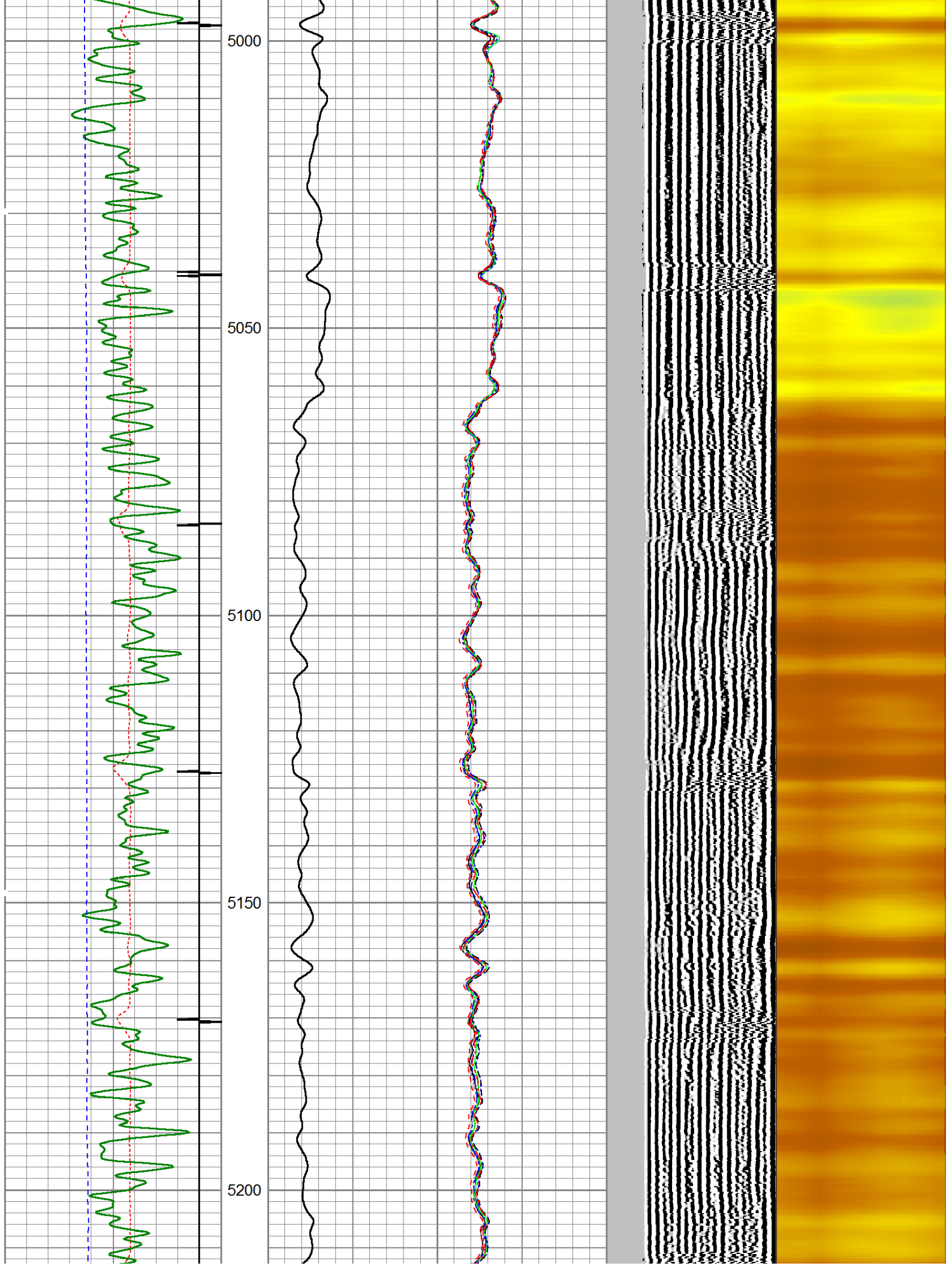


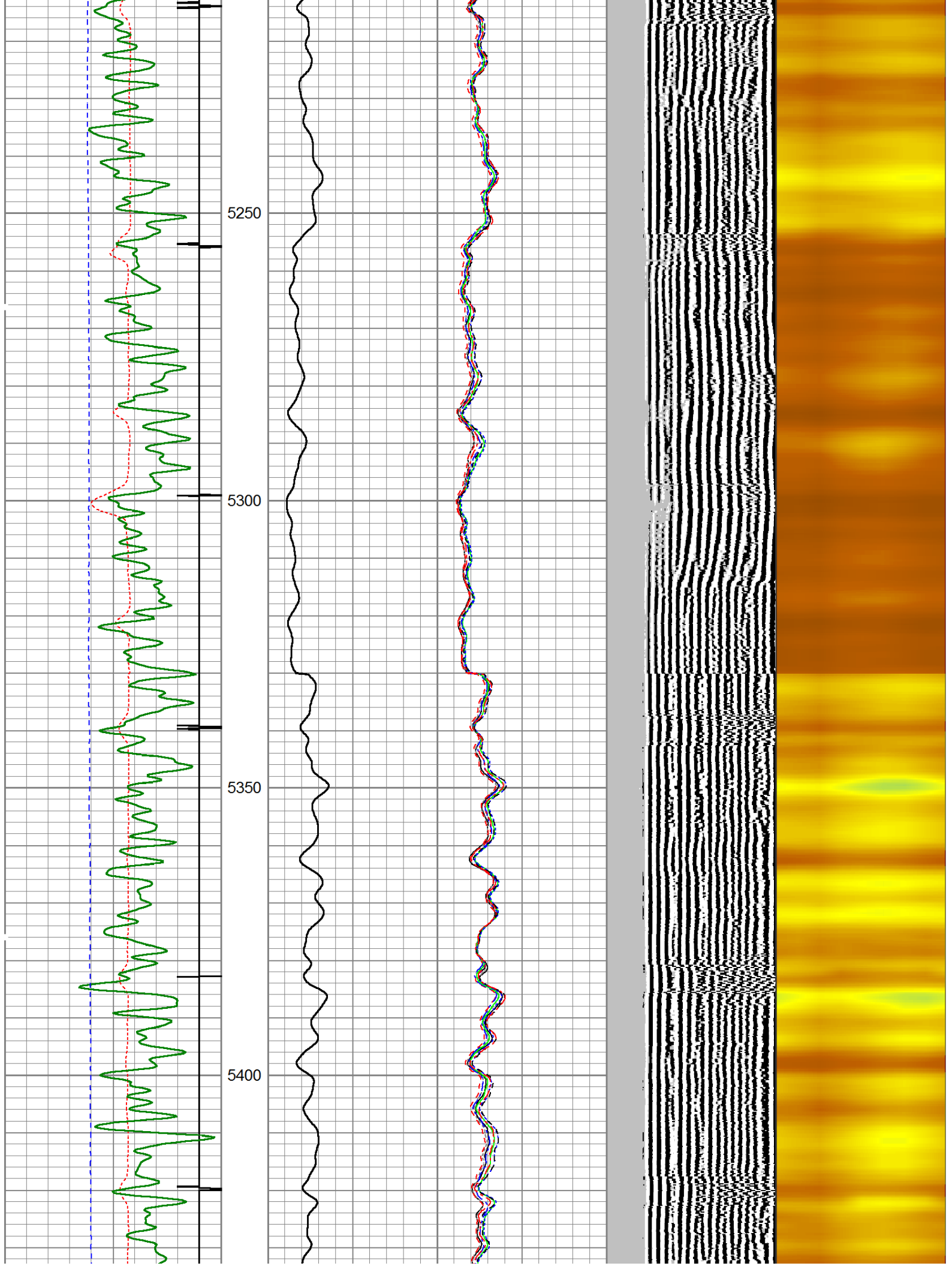


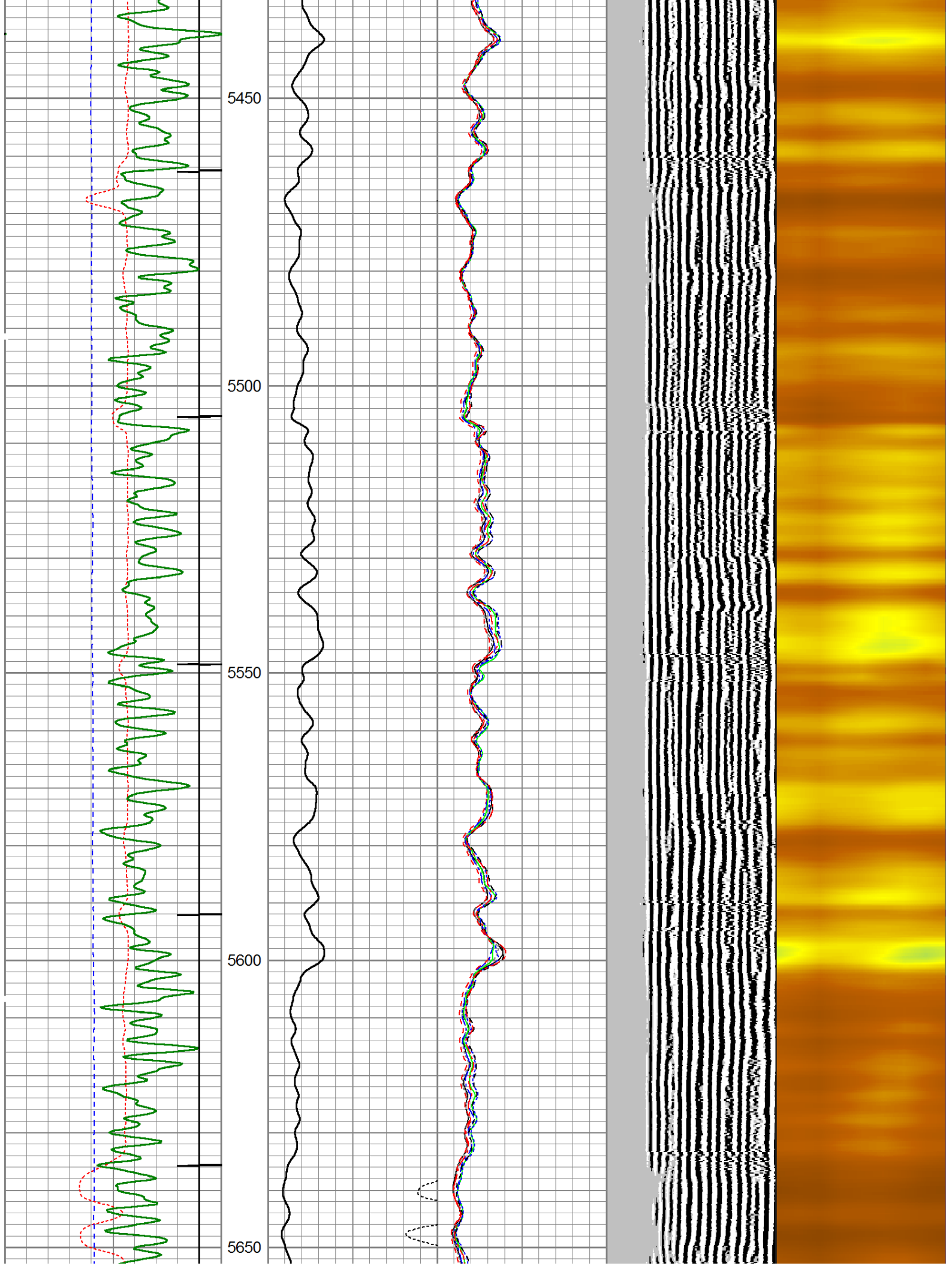




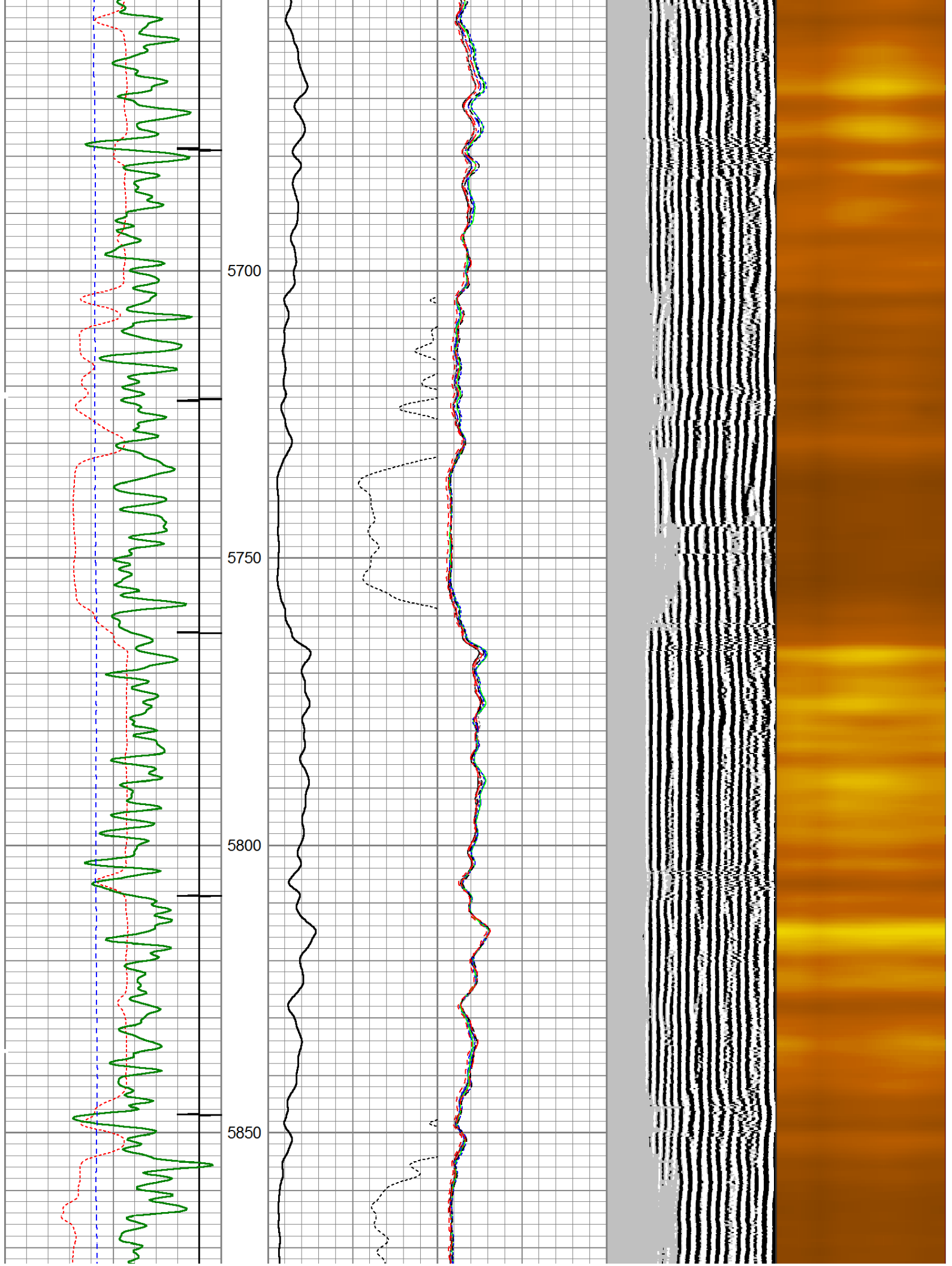




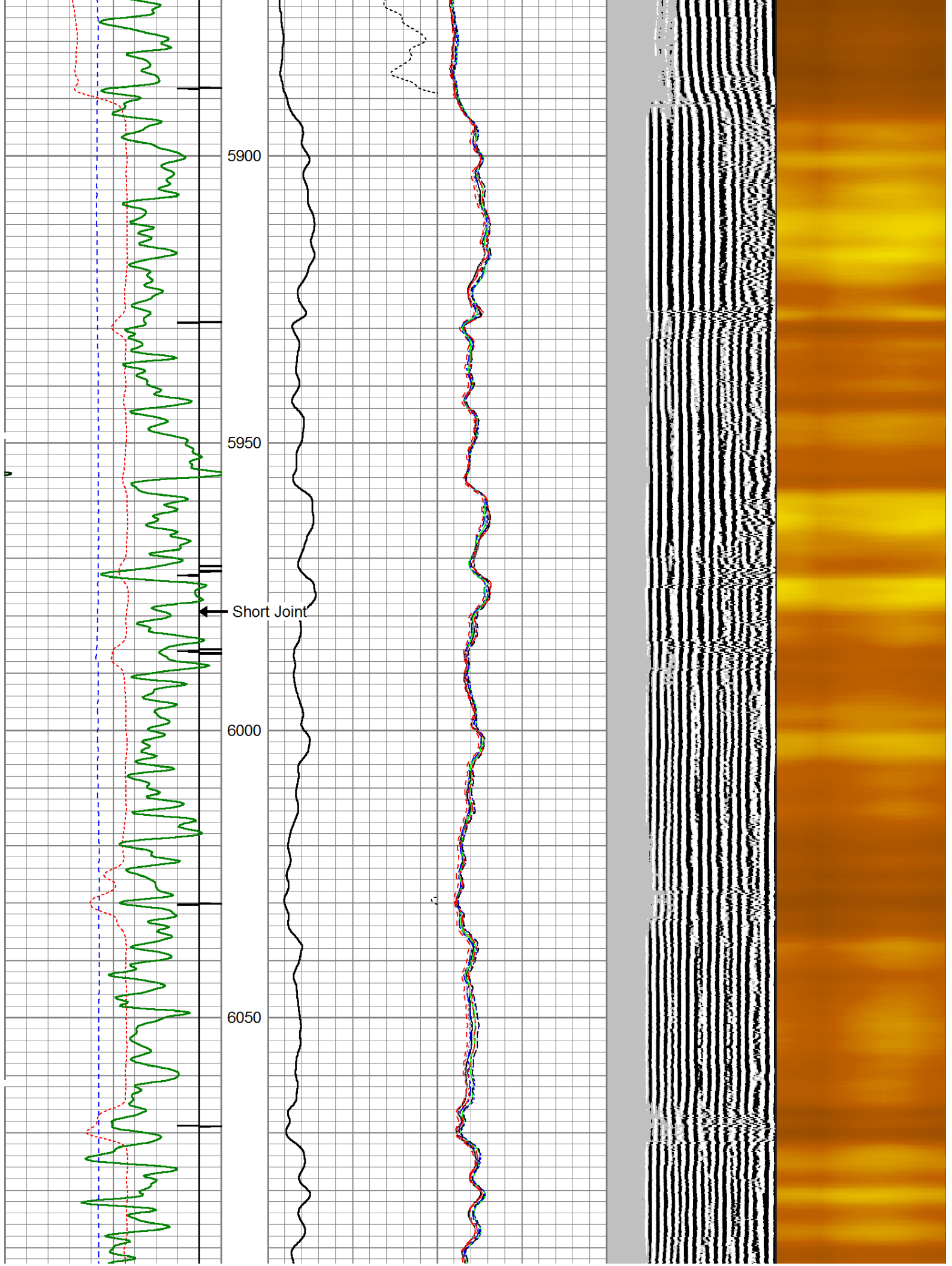


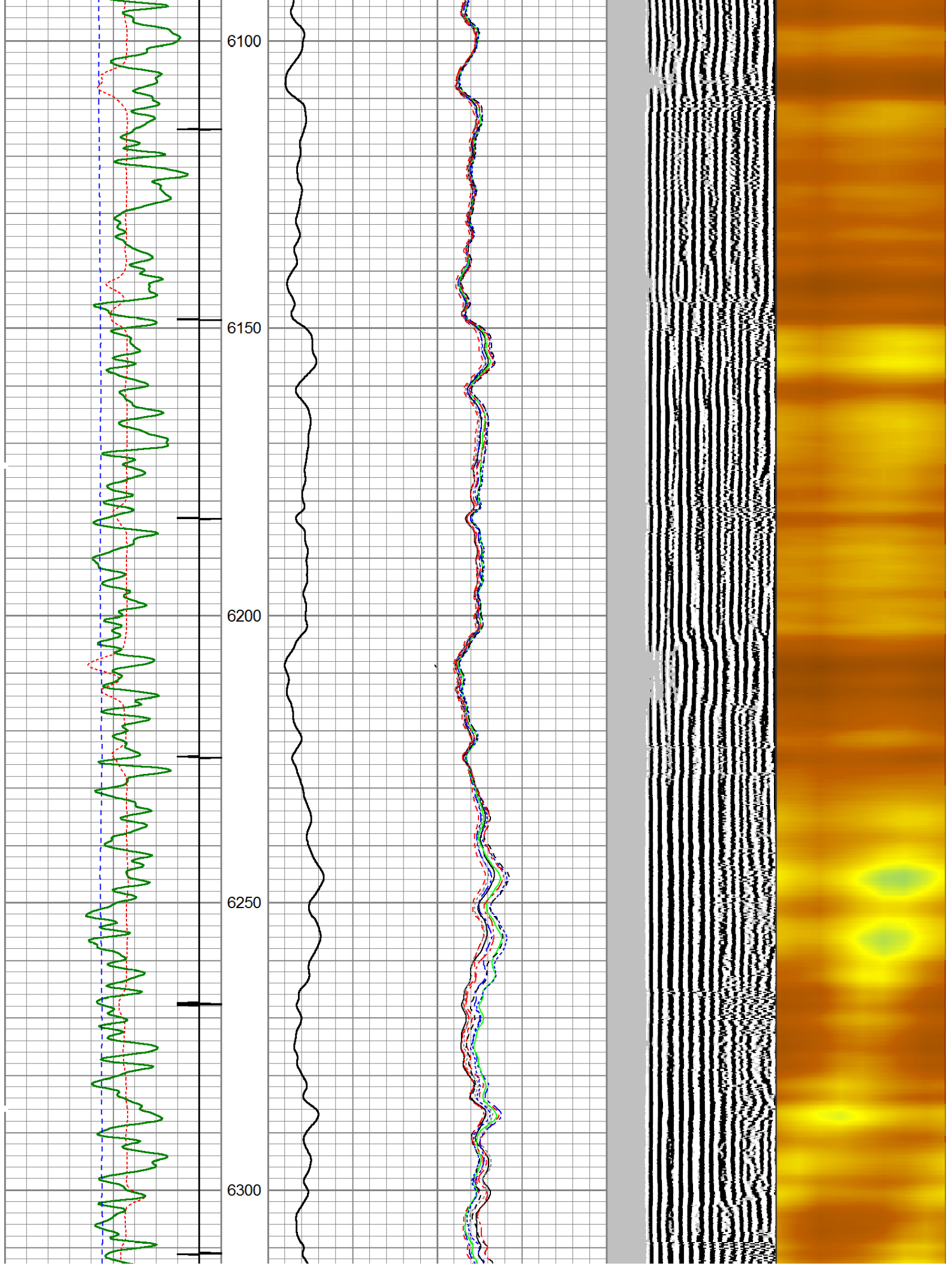


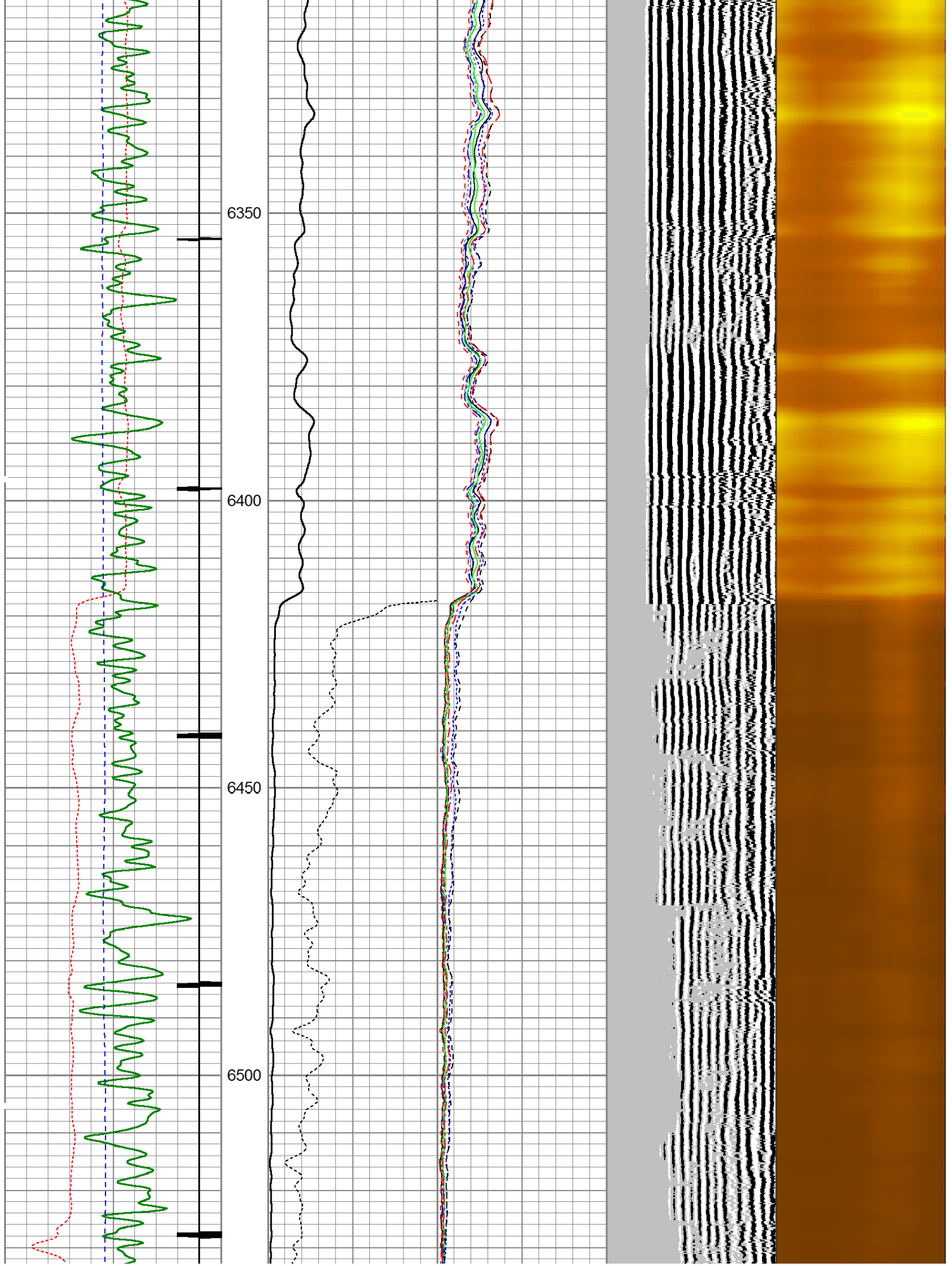


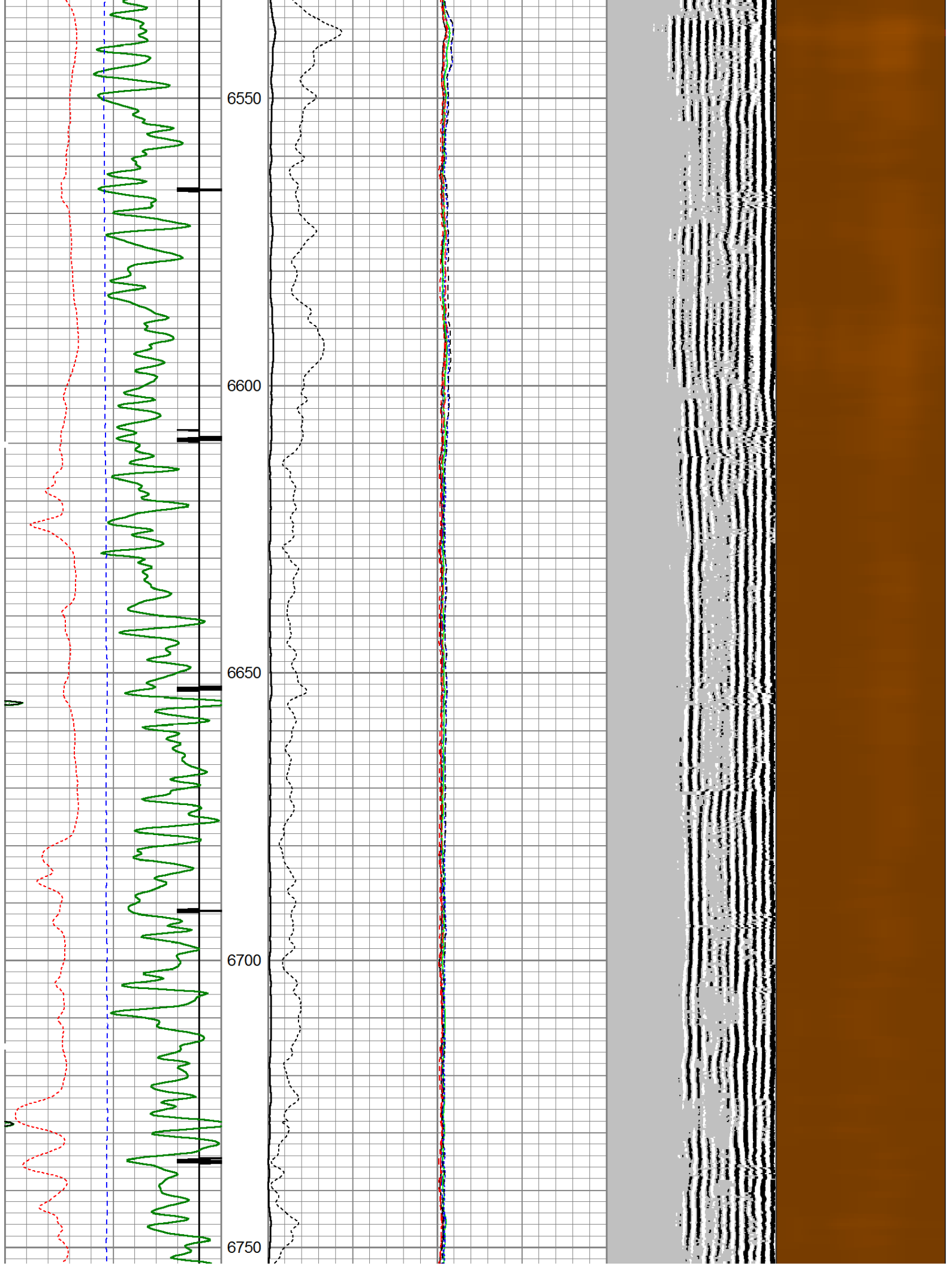


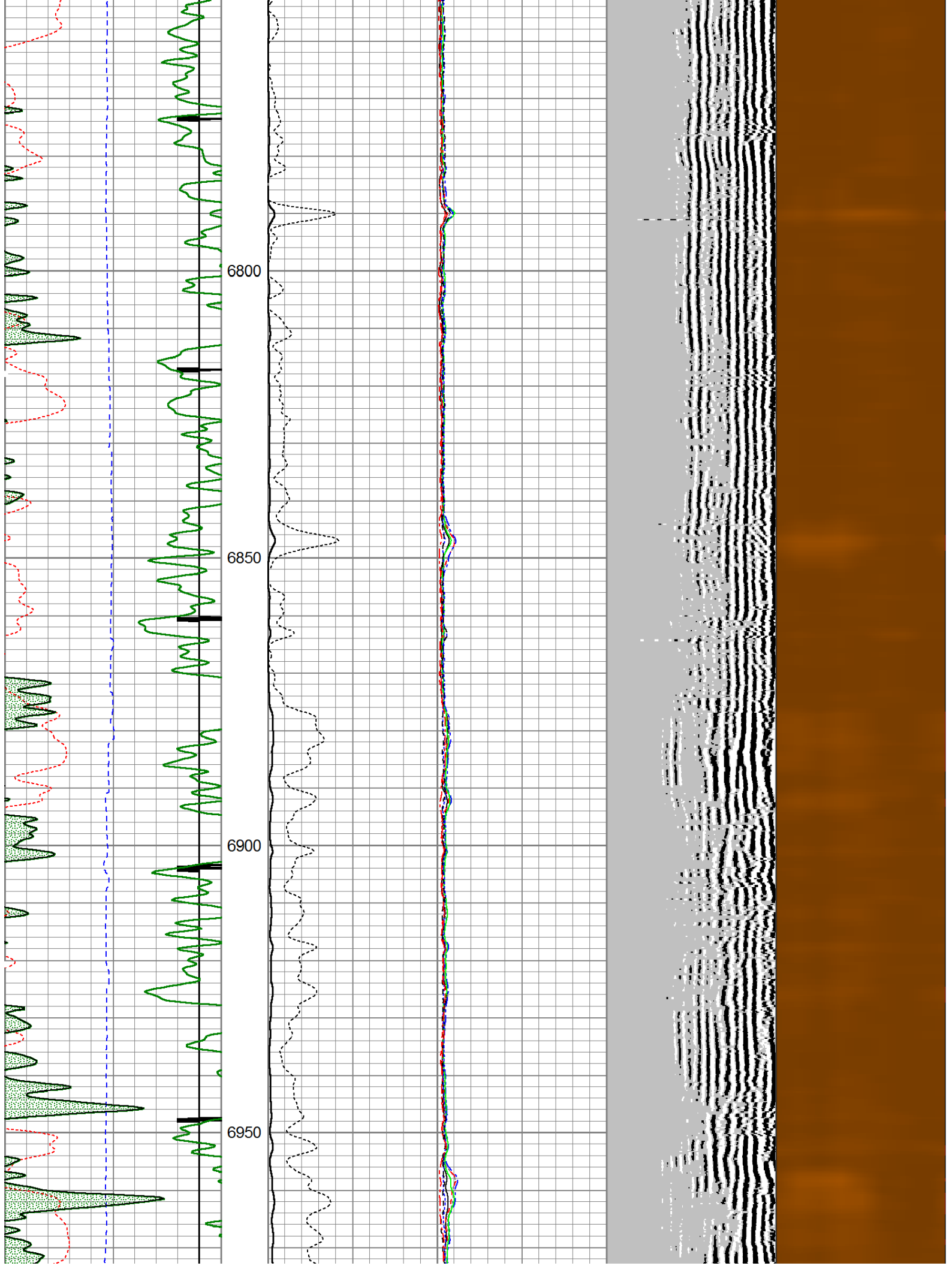




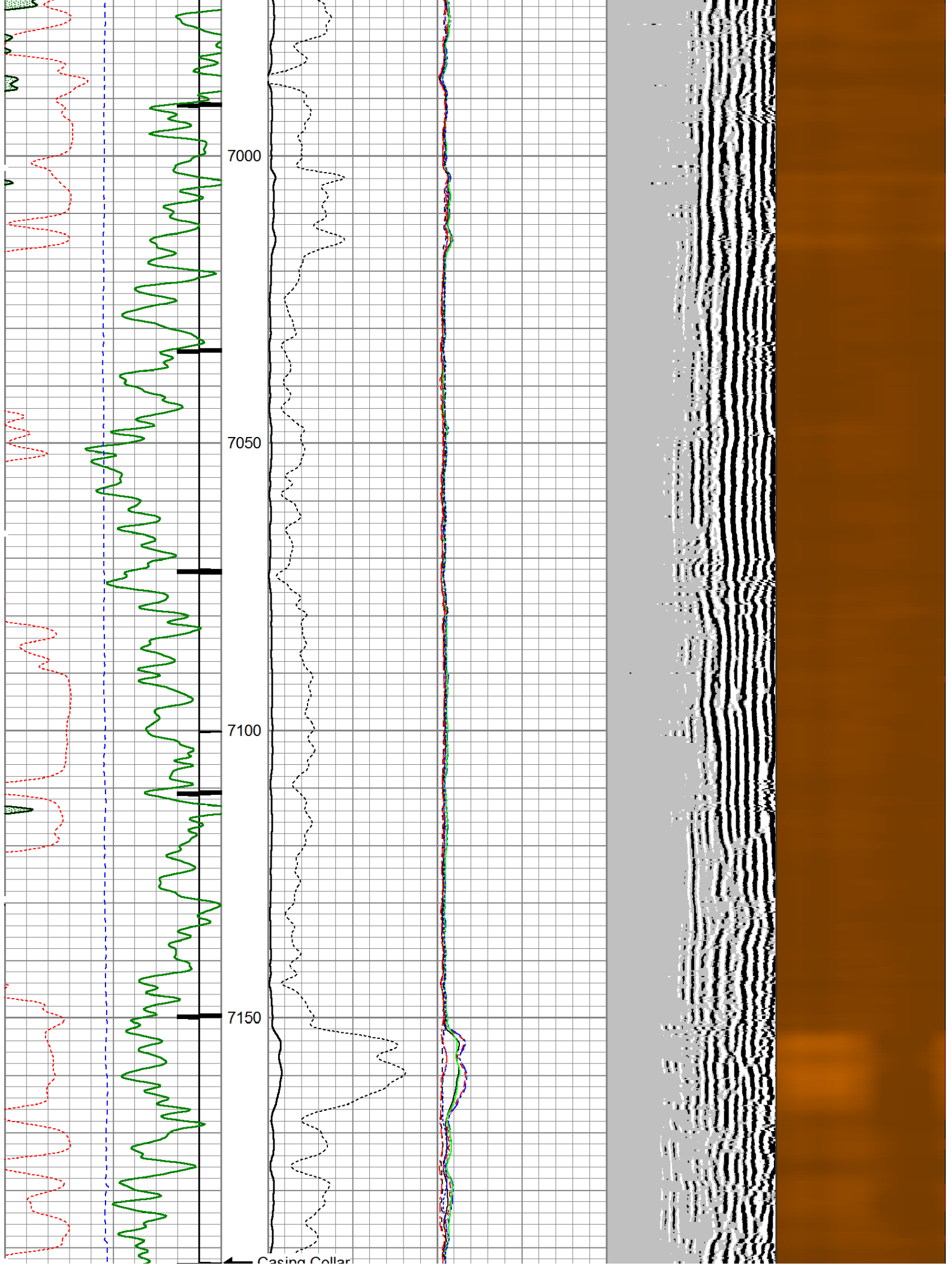


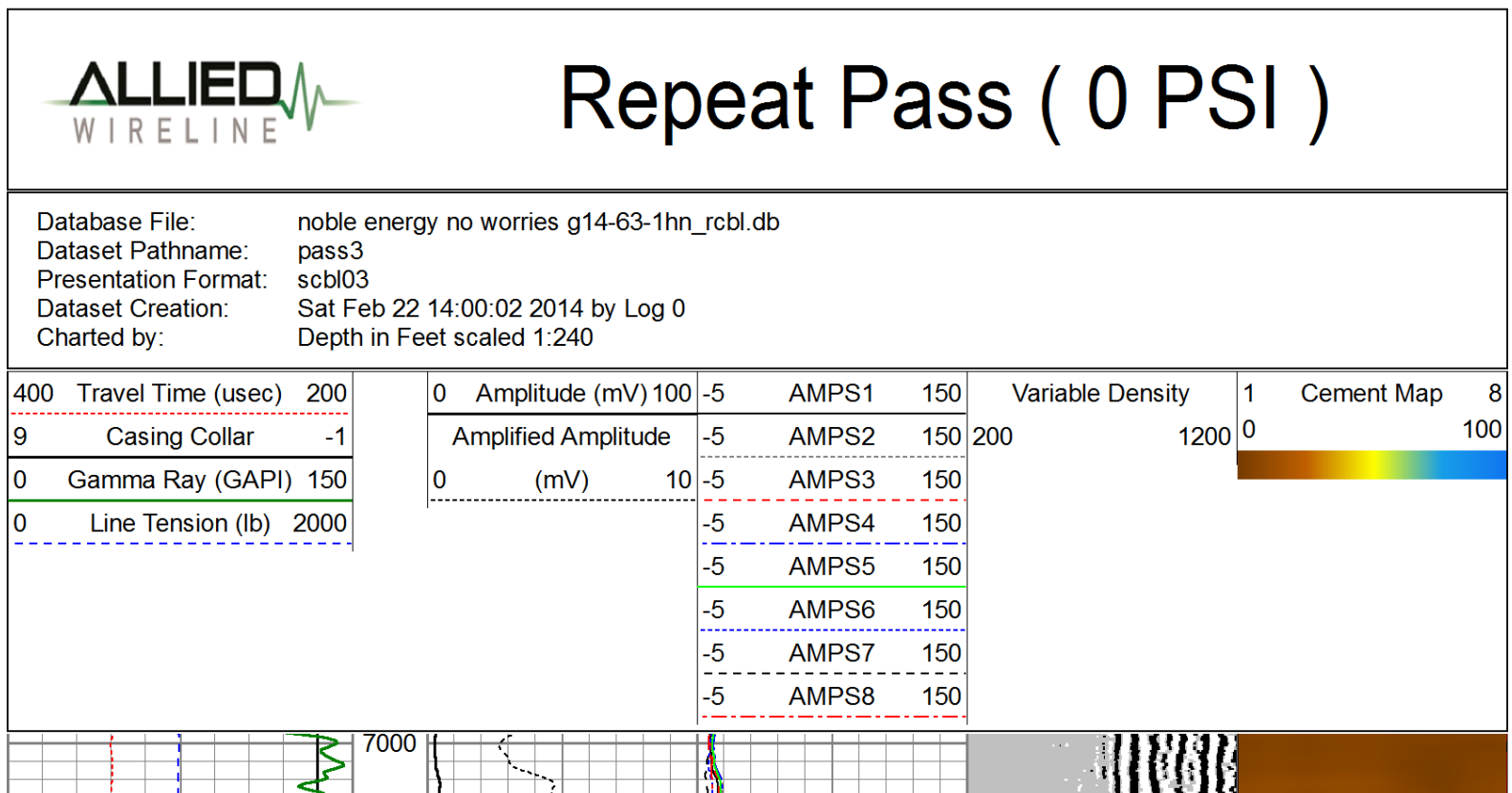
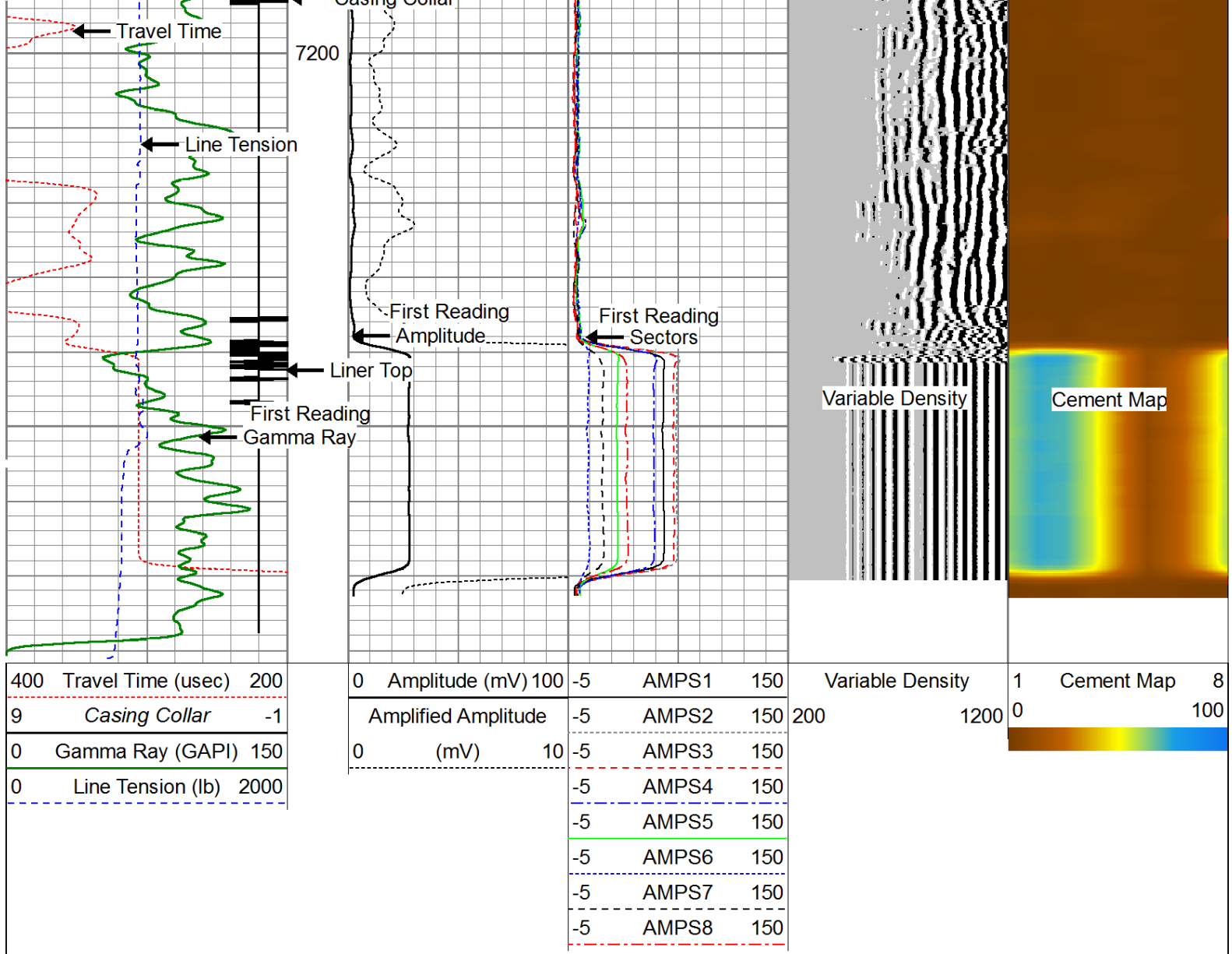


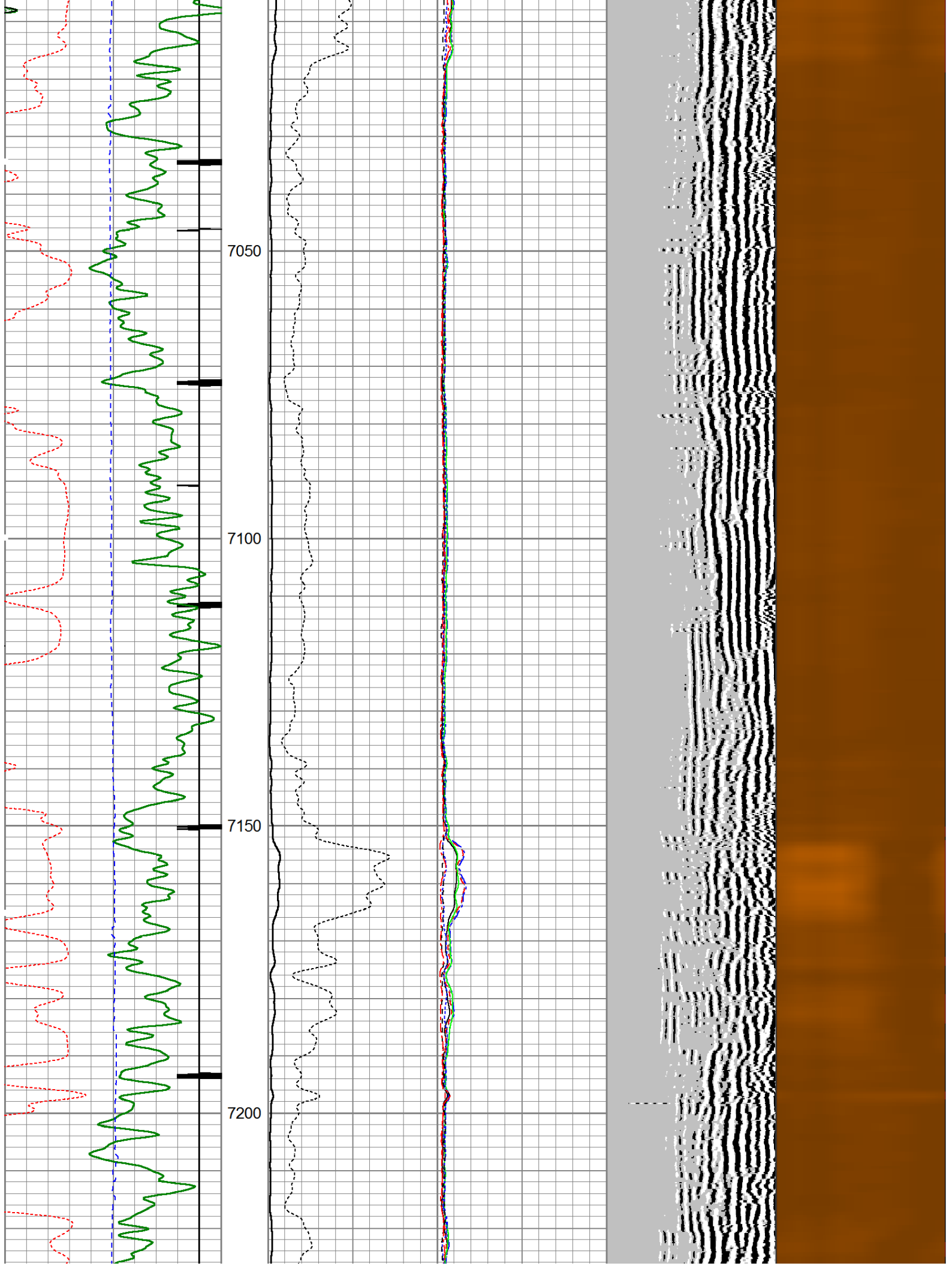


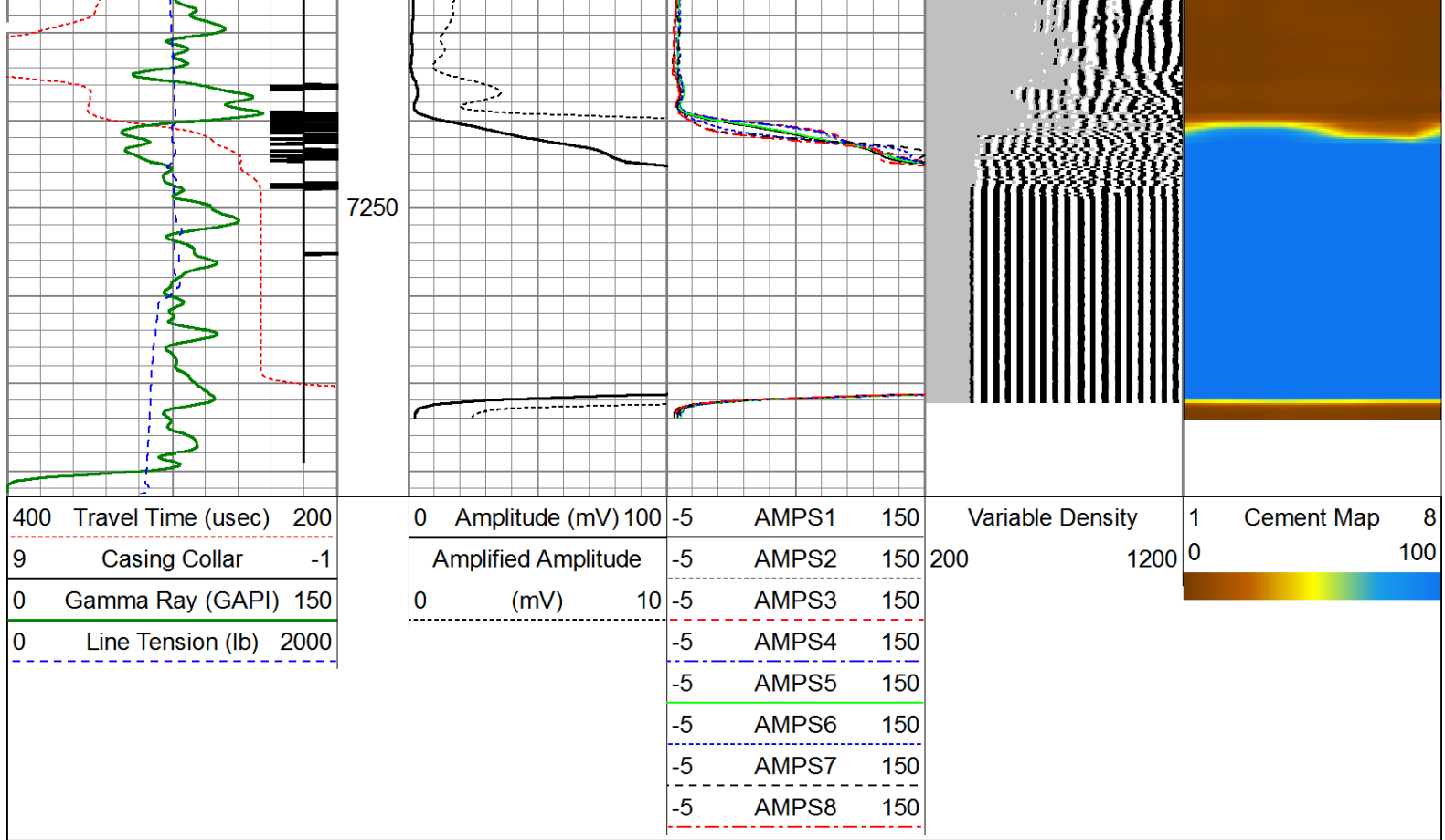












Calibration Report		
Database File:	noble energy no worries g14-63-1hn_rcbl.db	
Dataset Pathname:	merge1	
Dataset Creation:	Sat Feb 22 17:05:21 2014	

Gamma Ray Calibration Report		
Serial Number:	111111	
Tool Model:	Probe275	
Performed:	Tue Feb 11 08:37:44 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Temperature Calibration Report		
Serial Number:	111111	
Tool Model:	Probe275	
Performed:	Sun Jun 13 13:33:21 1993	
	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps
Gain:	1.00	
Offset:	0.00	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report		
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Serial Number:	101254	
Tool Model:	Probe	

Calibration Casing Diameter: 7.000 in  
Calibration Depth: 4537.728 ft

Master Calibration, performed Sat Feb 22 14:20:02 2014:

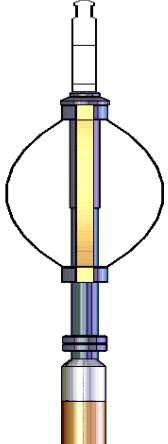
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.618	1.000	62.165	101.436	2.991
CAL	-0.023	1.016				
5'	-0.022	0.556	1.000	62.165	105.873	3.312
SUM						
S1	0.002	0.656	0.000	100.000	152.861	-0.237
S2	-0.016	0.625	0.000	100.000	156.056	2.516
S3	-0.008	0.560	0.000	100.000	175.919	1.439
S4	-0.022	0.516	0.000	100.000	186.004	4.005
S5	-0.022	0.545	0.000	100.000	176.282	3.871
S6	-0.021	0.611	0.000	100.000	158.156	3.363
S7	-0.014	0.659	0.000	100.000	148.478	2.101
S8	-0.005	0.663	0.000	100.000	149.628	0.738

Internal Reference Calibration, performed Mon Oct 10 09:42:03 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.023	1.016	1.000	0.000

Air Zero Calibration, performed Sat Feb 22 08:53:18 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	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00



Tool Name	Start Depth (ft)	End Depth (ft)	Tool Length (ft)	Tool Weight (lb)	Tool O.D. (in)
WVF3FT	11.84	11.84	0.00	0.00	0.00
WVFCAL	11.84	11.84	0.00	0.00	0.00
WVFS1	11.84	11.84	0.00	0.00	0.00
WVFS2	11.84	11.84	0.00	0.00	0.00
WVFS3	11.84	11.84	0.00	0.00	0.00
WVFS4	11.84	11.84	0.00	0.00	0.00
WVFS5	11.84	11.84	0.00	0.00	0.00
WVFS6	11.84	11.84	0.00	0.00	0.00
WVFS7	11.84	11.84	0.00	0.00	0.00
WVFS8	11.84	11.84	0.00	0.00	0.00
WVF5FT	10.84	11.84	1.00	0.00	0.00
RBT-Probe (101254)	8.75	11.84	3.09	90.00	2.75
Probe275	2.88	5.63	2.75	20.00	2.75
CCL	3.88	3.88	0.00	0.00	0.00
TEMP	3.00	3.00	0.00	0.00	0.00
GR	2.54	7.32	4.78	57.00	2.75
GR-Probe275 (111111)	4.78	7.32	2.54	57.00	2.75
Dataset: noble energy no worries g14-63-1hn_rcbl.db: field/well/run1/merge1 Total Length: 20.28 ft Total Weight: 197.00 lb O.D.: 2.75 in					