



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

Company	Carizzo Oil & Gas	Company	Carizzo Oil & Gas				
Well	Patasnik 30-44-9-59	Well	Patasnik 30-44-9-59				
Field		Field					
County	Weld	County	Weld	State	Colorado		
State	Colorado	Location:	API # :	Other Services			
		SEC	TWP	RGE	None		
Permanent Datum	Ground Level	Elevation					
Log Measured From	Kelly Bushing						
Drilling Measured From	Kelly Bushing	K.B. D.F. G.L.					
Date	21-Dec-2012						
Run Number	One						
Depth Driller	N/A						
Depth Logger	6198'						
Bottom Logged Interval	6195'						
Top Log Interval	Surface						
Open Hole Size	N/A						
Type Fluid	Water						
Density / Viscosity	N/A						
Max. Recorded Temp.	N/A						
Estimated Cement Top	1120'						
Time Well Ready	08:00						
Time Logger on Bottom	10:15						
Equipment Number	12027						
Location	Brighton						
Recorded By	Michael Schneider						
Witnessed By	Kirk Williams						
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size			Wgt/Ft		Top	Bottom
Surface String							
Prot. String							
Production String	7"			N/A		Surface	5512'
Liner	4.5			N/A		5512'	6200'
						Liner Top	5512'

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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

No Well Information Provided On Location

Well Logged Using A 14' K.B.

Main Pass Logged Under 1,000 PSI

Repeat Logged Under 0 PSI

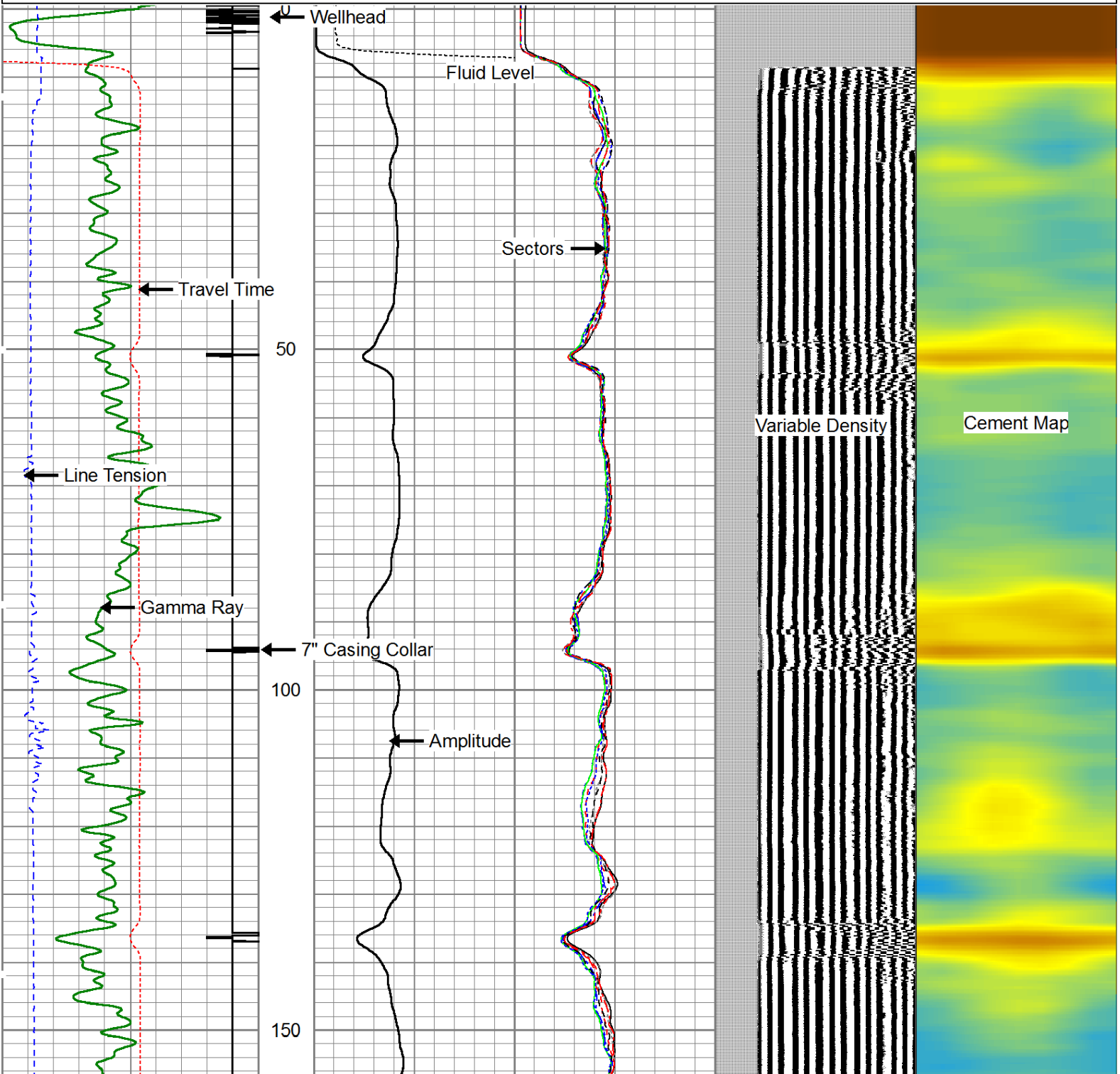
Thank You For Choosing Allied Wireline

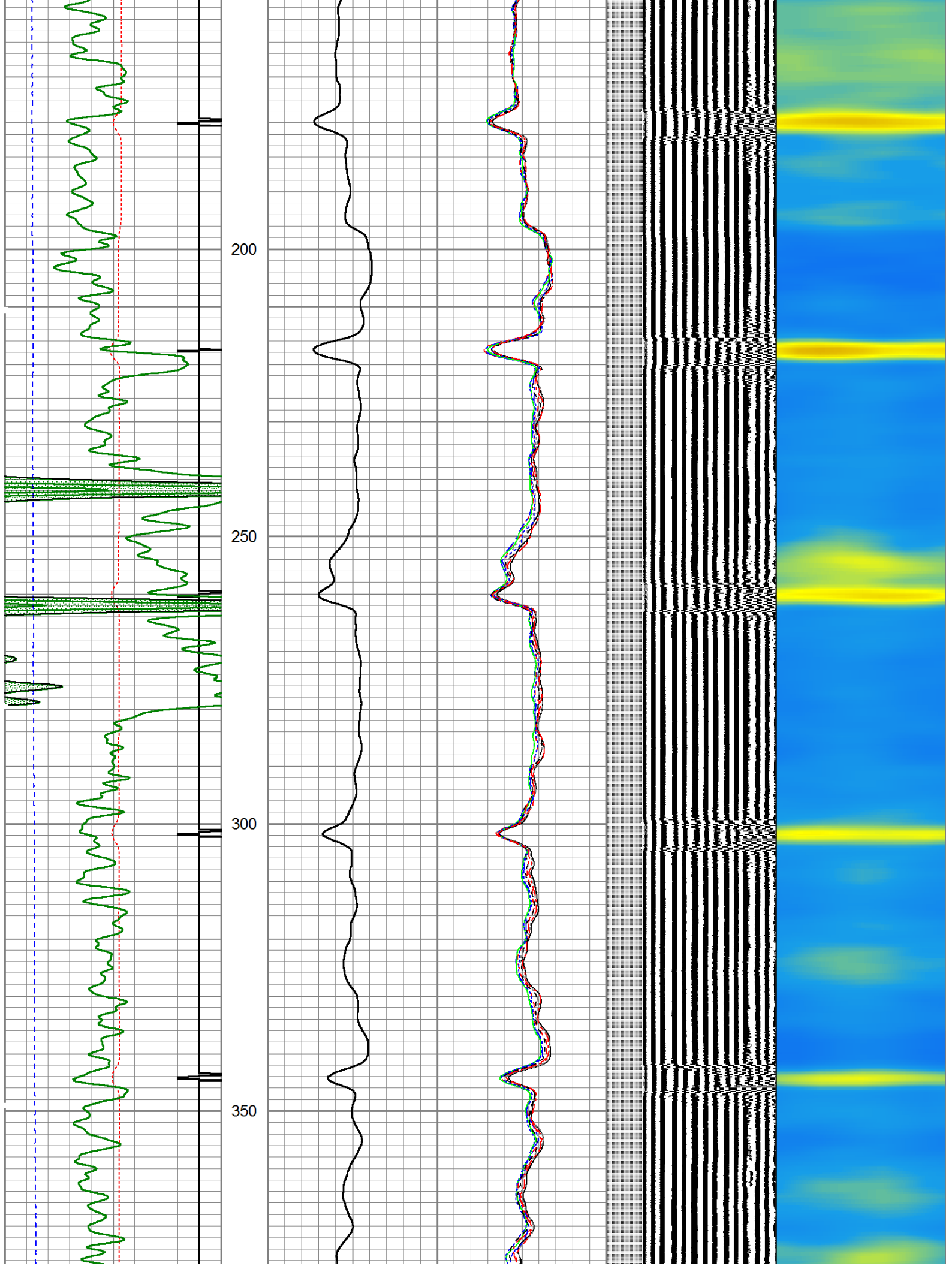


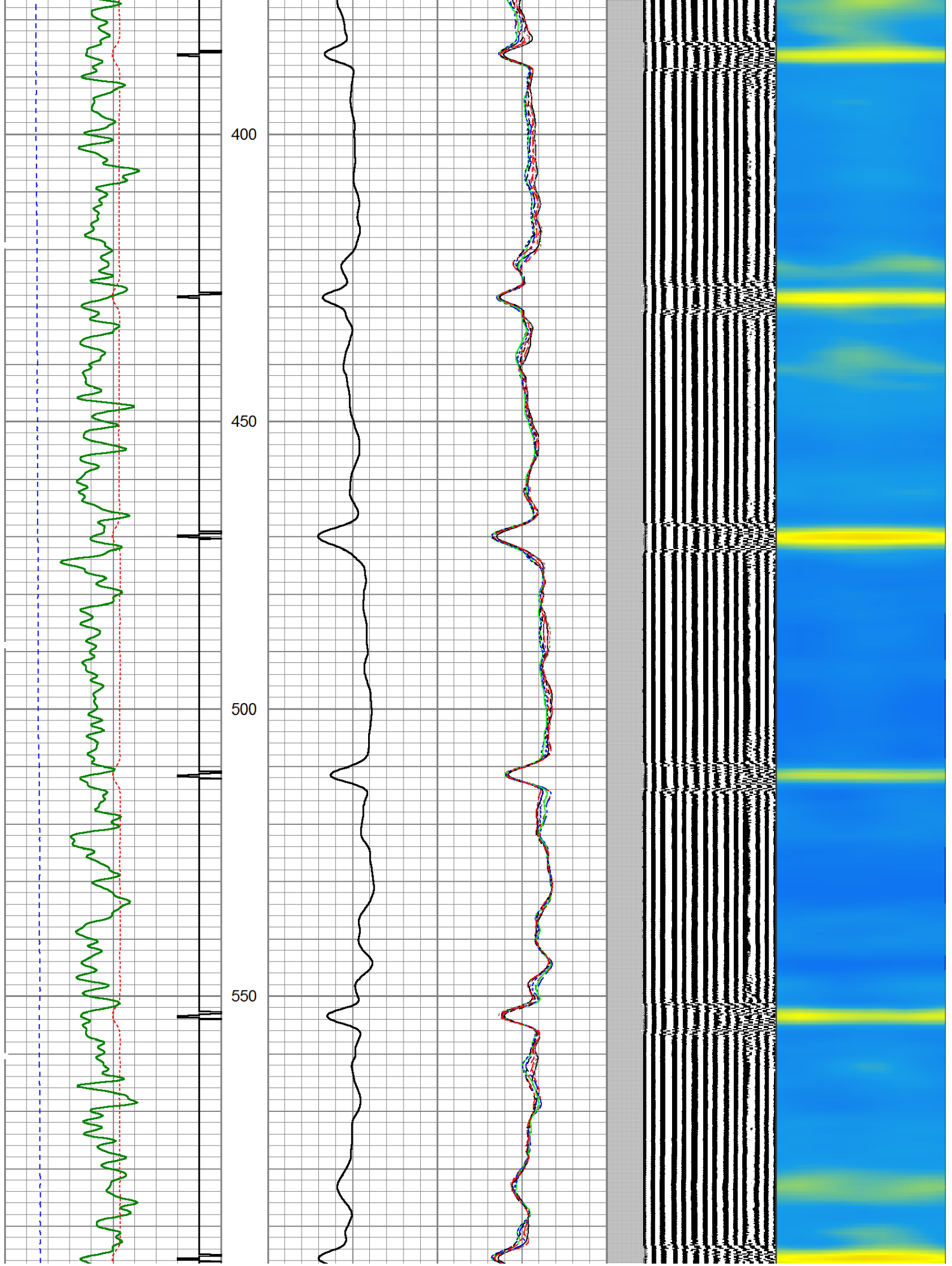
Main Pass (1000 PSI)

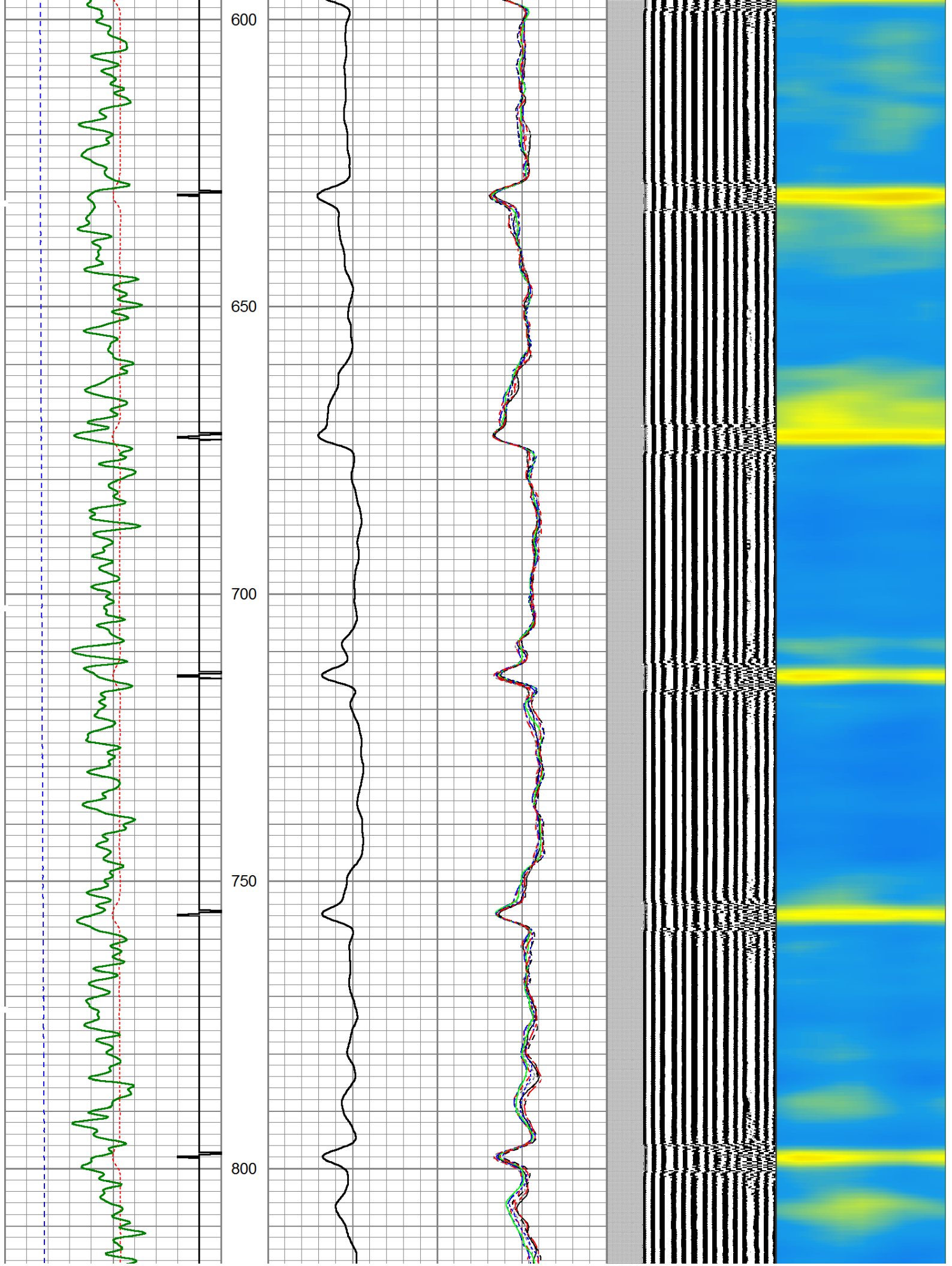
Database File: carizo_patasnik_30_44_9_59_bond.db
Dataset Pathname: Carizo/run1_Bond/pass8.1
Presentation Format: scbl03
Dataset Creation: Fri Dec 21 21:10:20 2012 by Calc SCH 111116
Charted by: Depth in Feet scaled 1:240

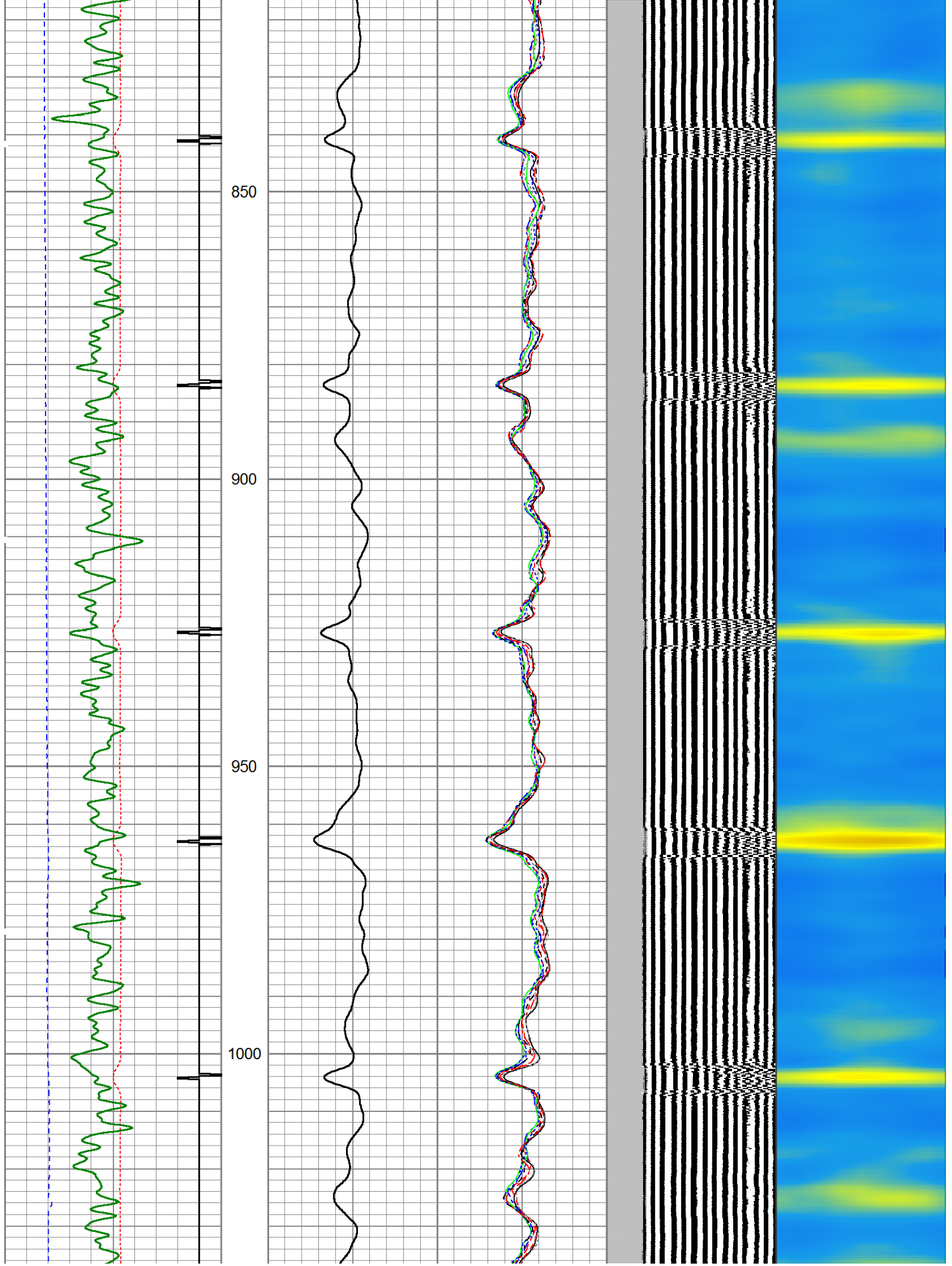
400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1		Amplified Amplitude		-5	AMPS2	150	200	1200	0	100
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150				
0	Line Tension (lb)	1500				-5	AMPS4	150				
						-5	AMPS5	150				
						-5	AMPS6	150				
						-5	AMPS7	150				
						-5	AMPS8	150				

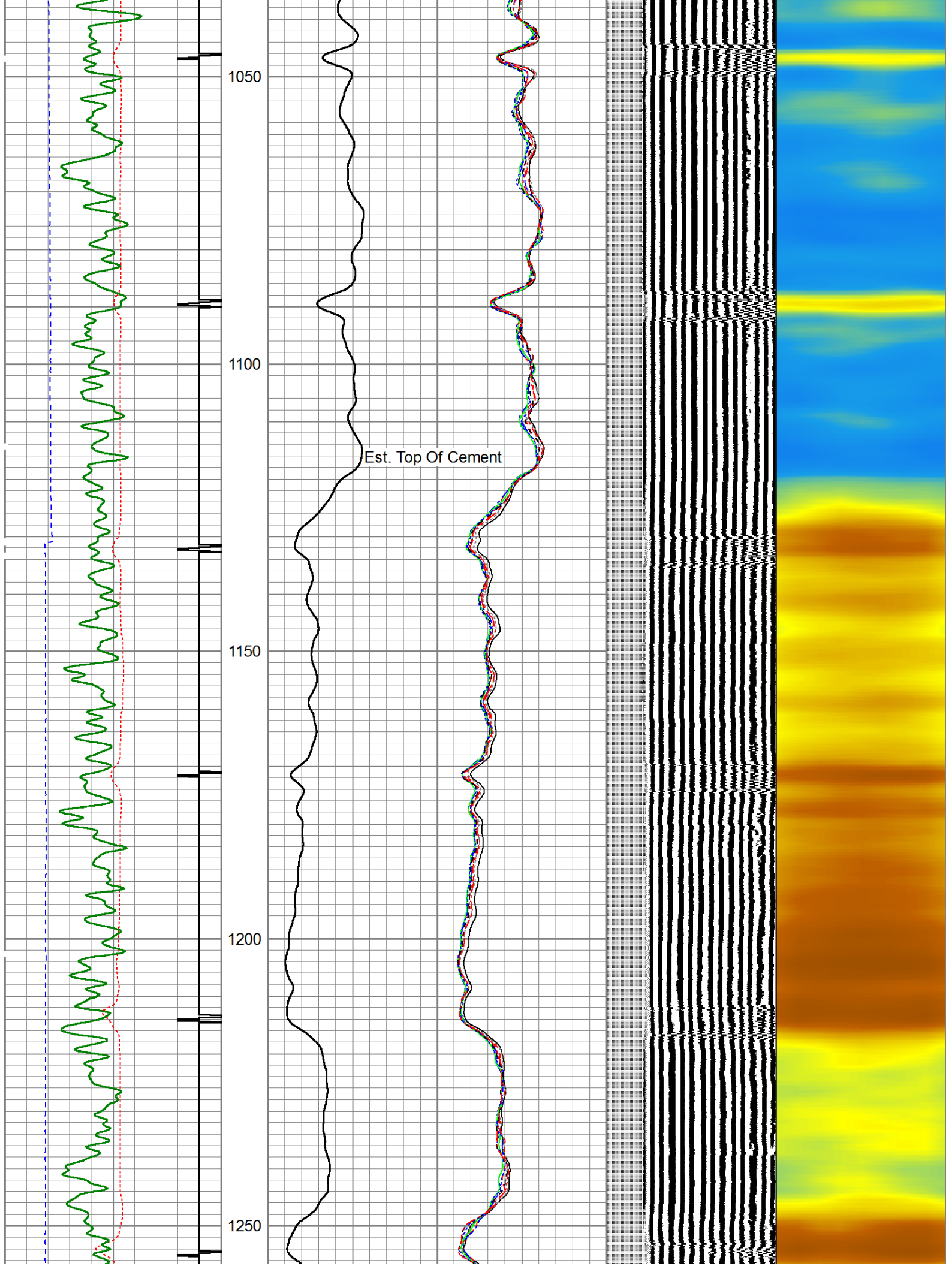


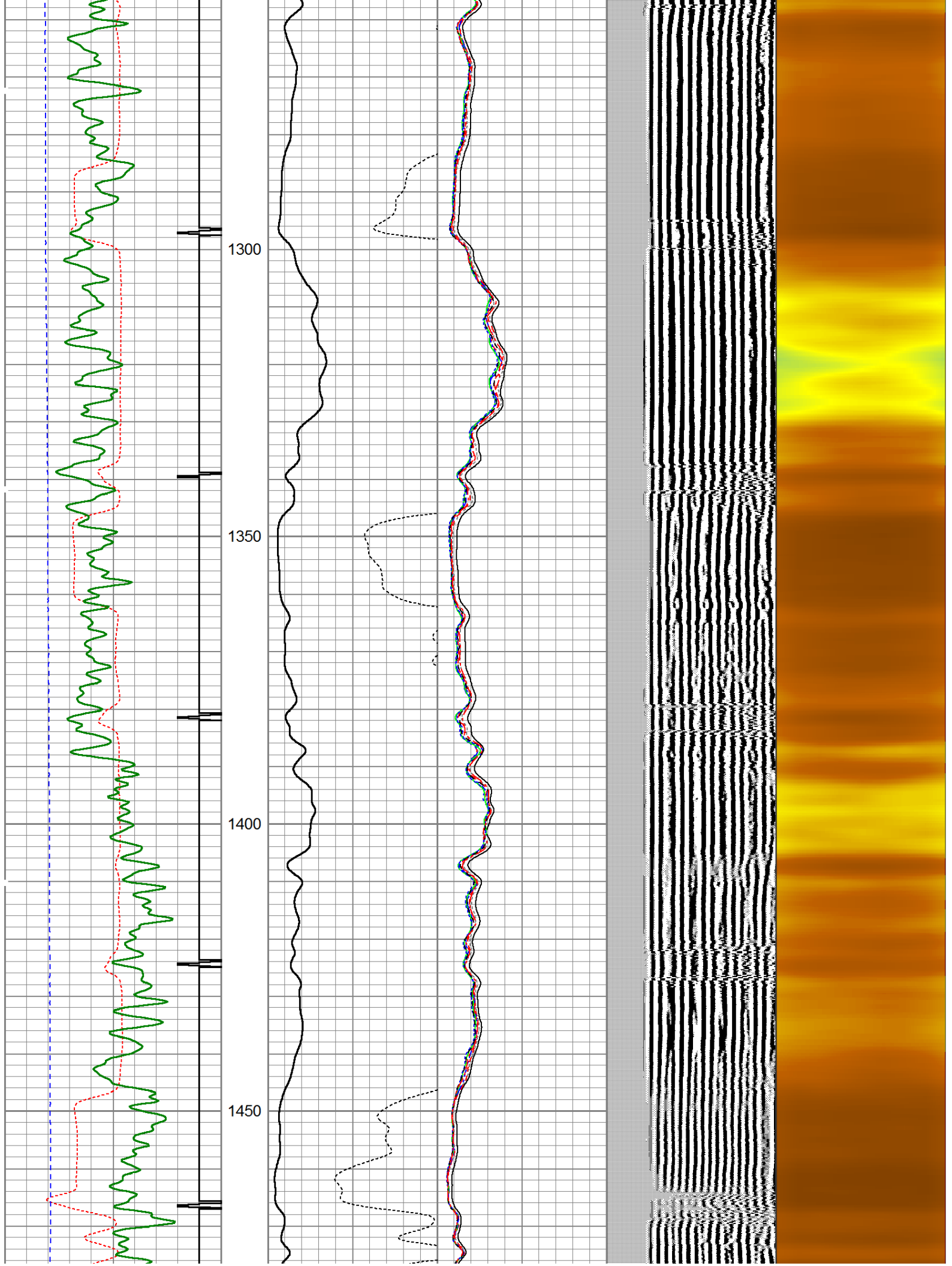


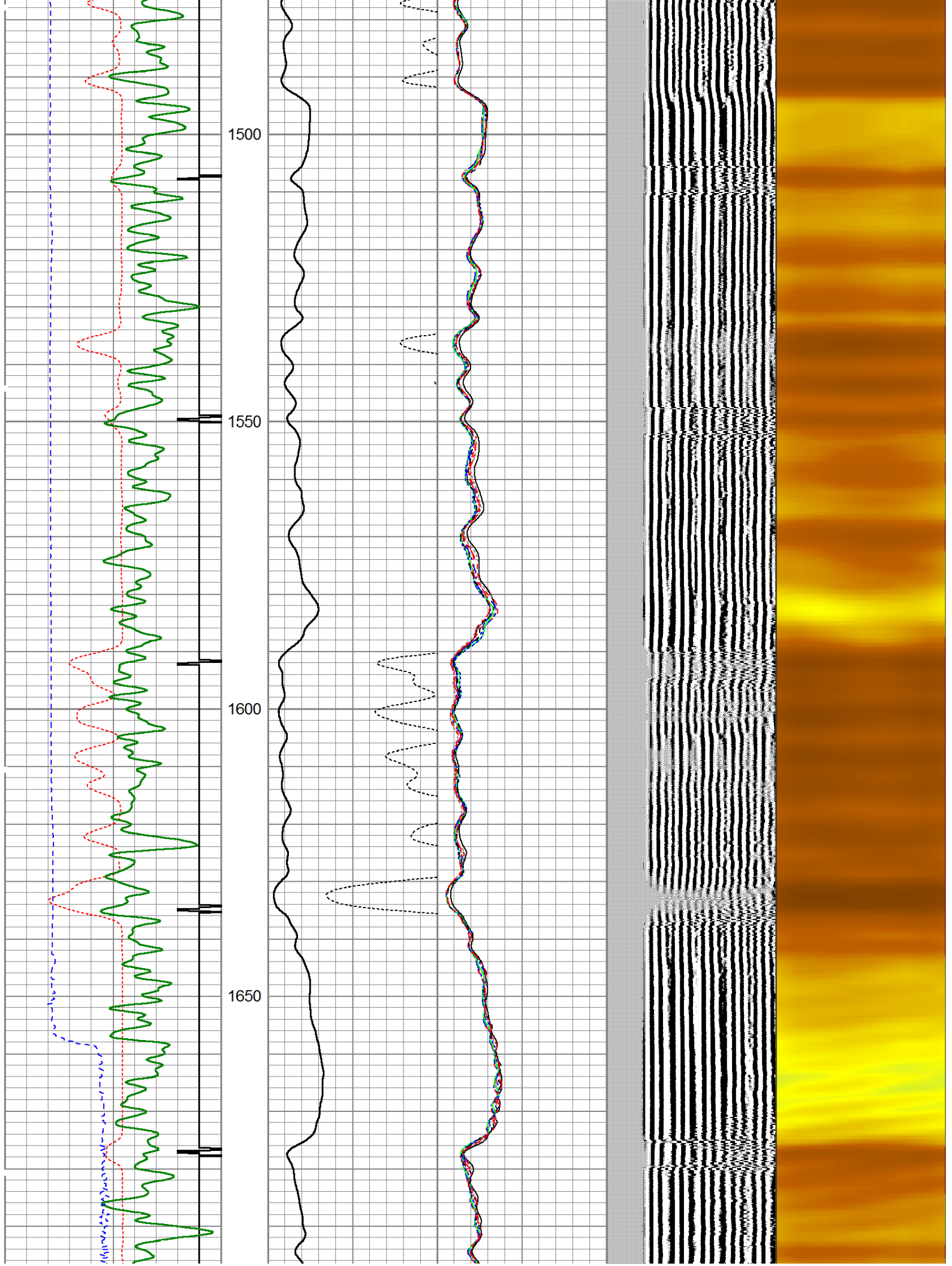


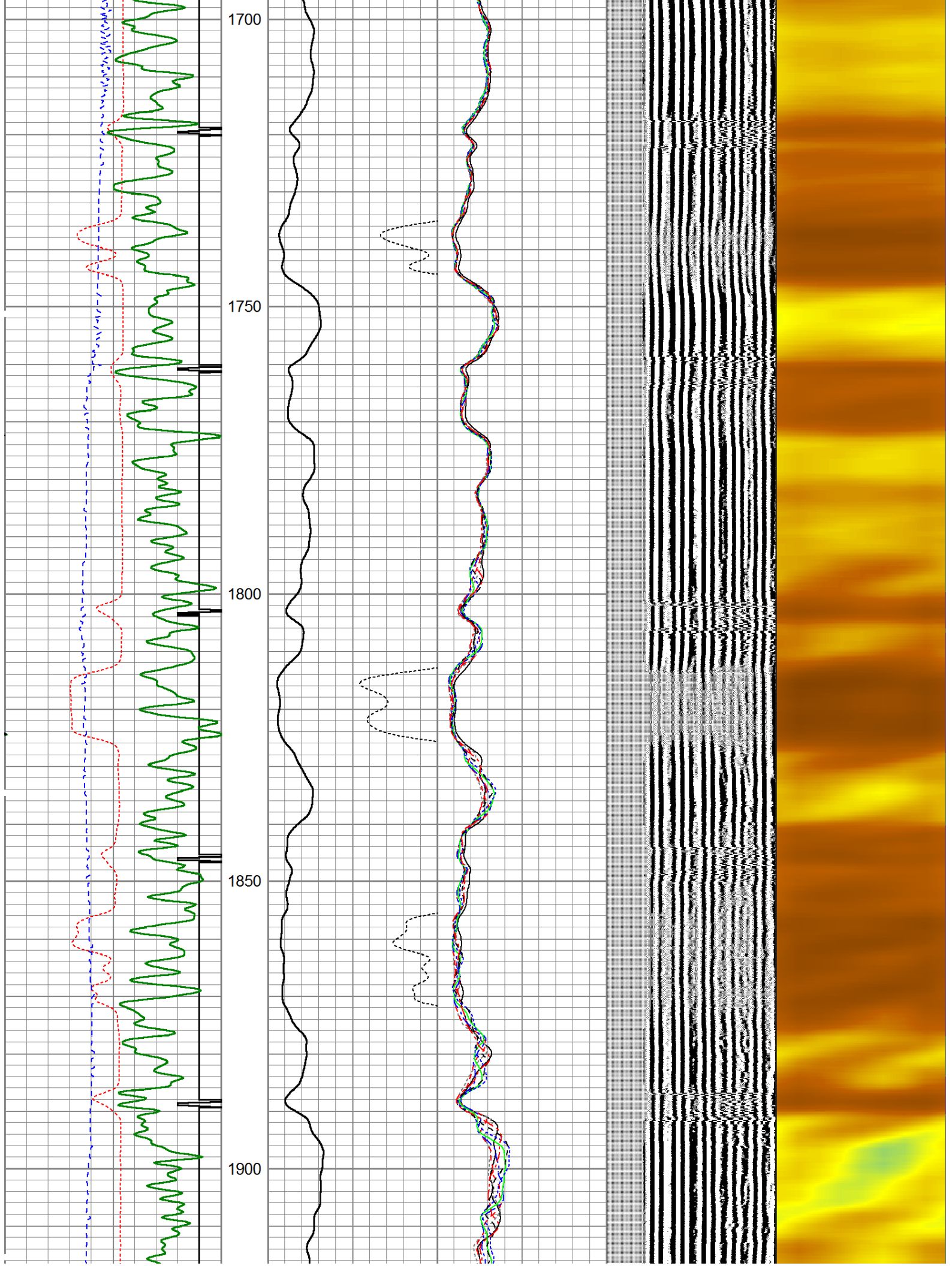


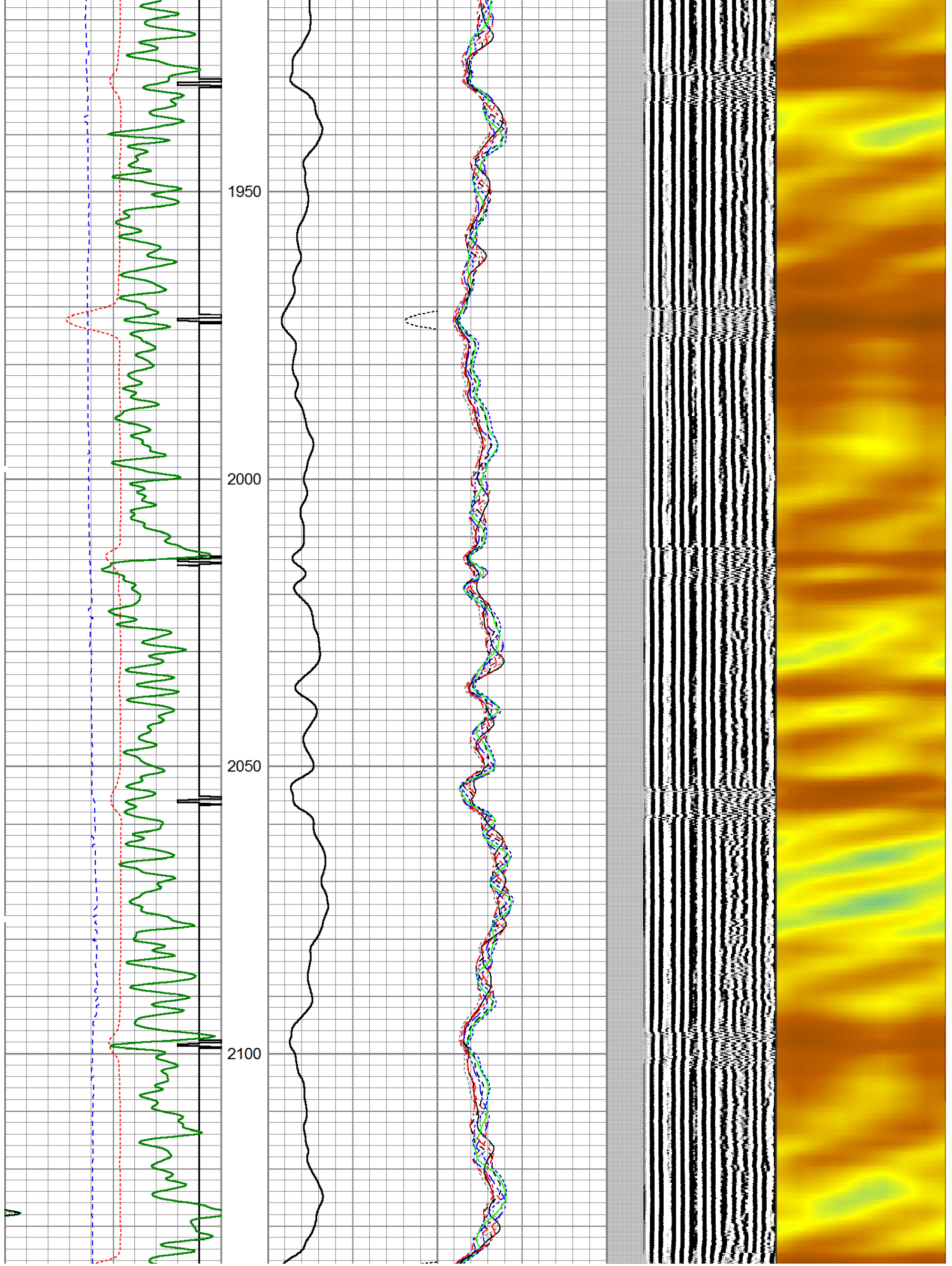


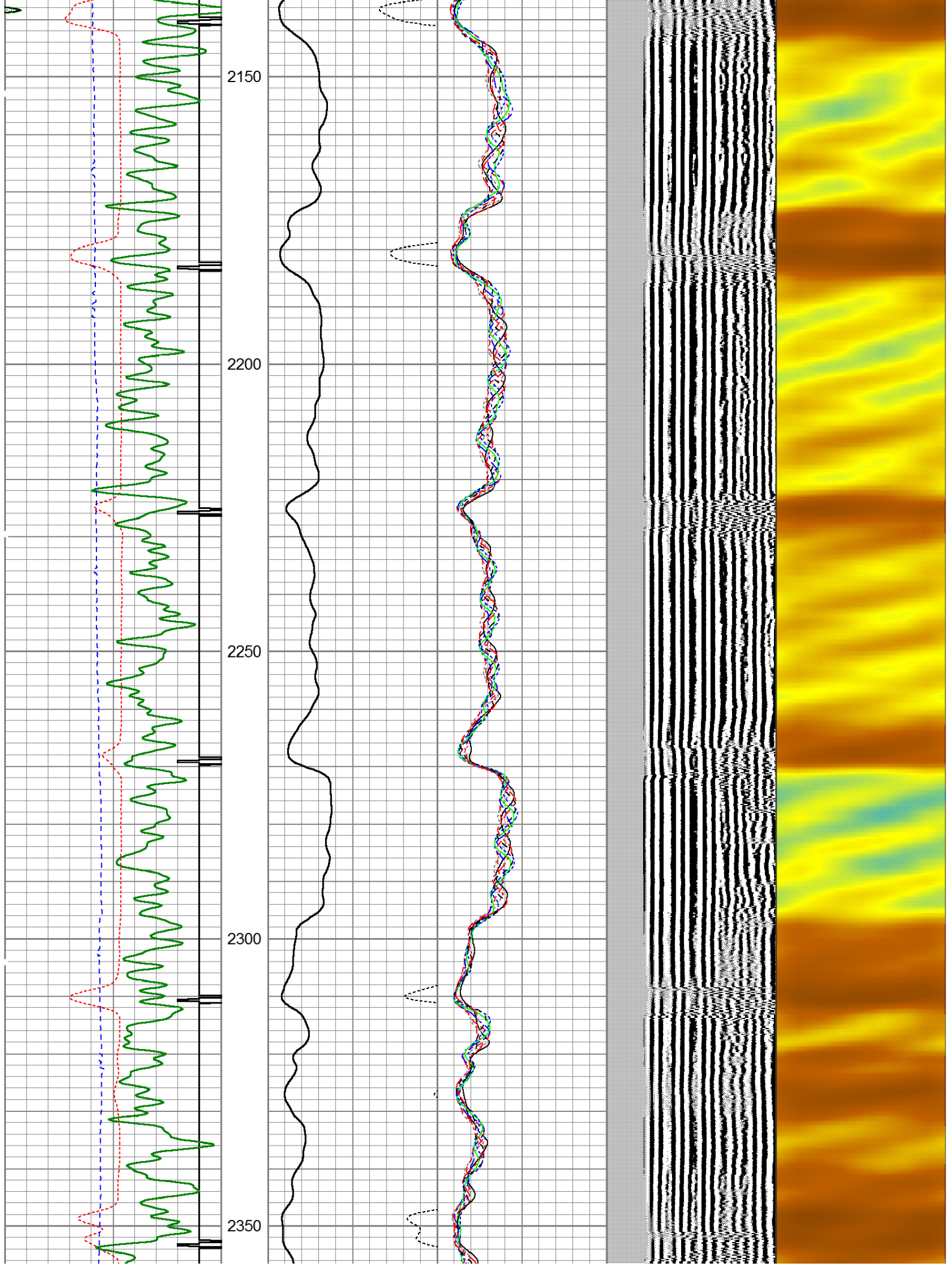


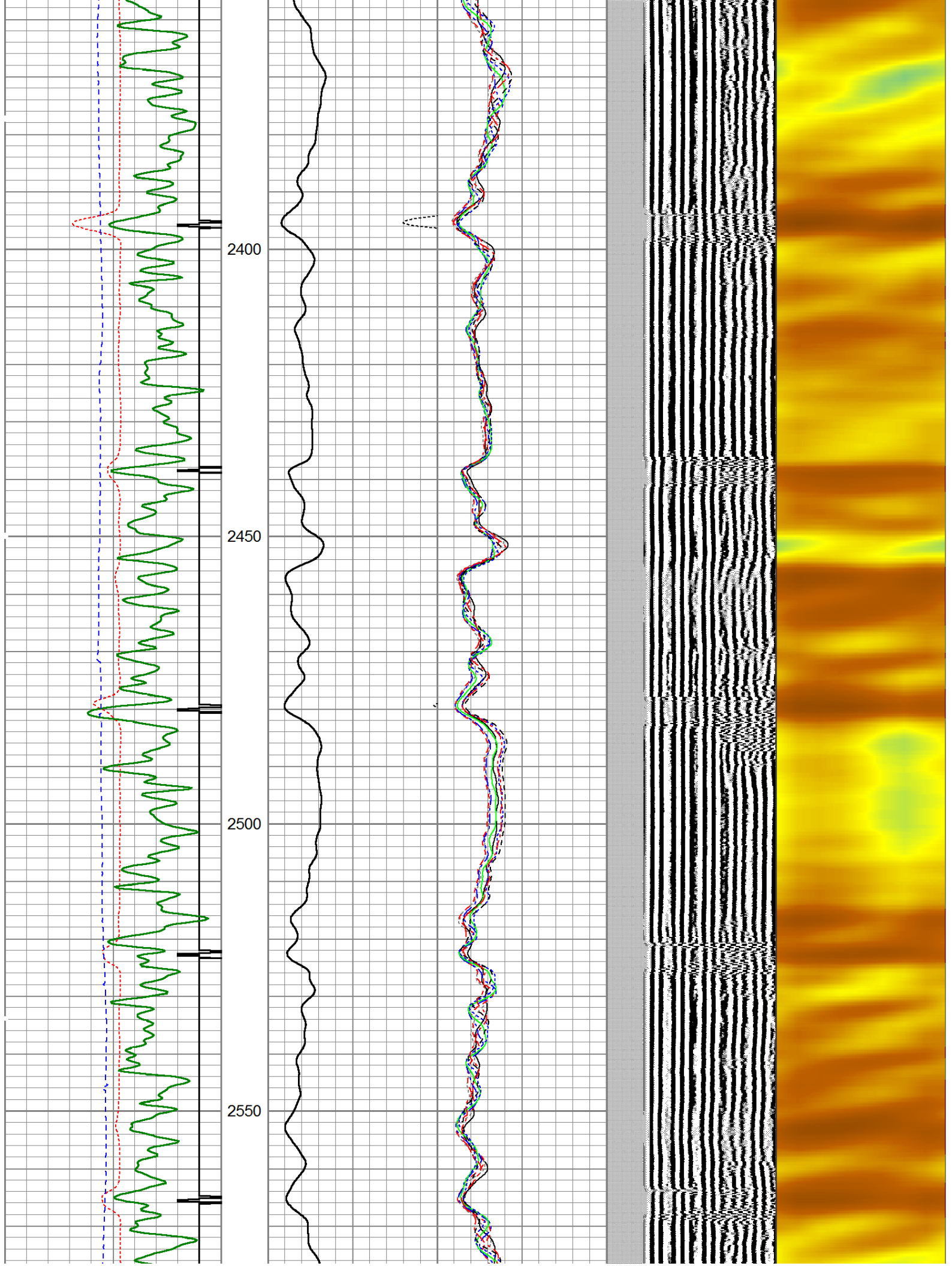


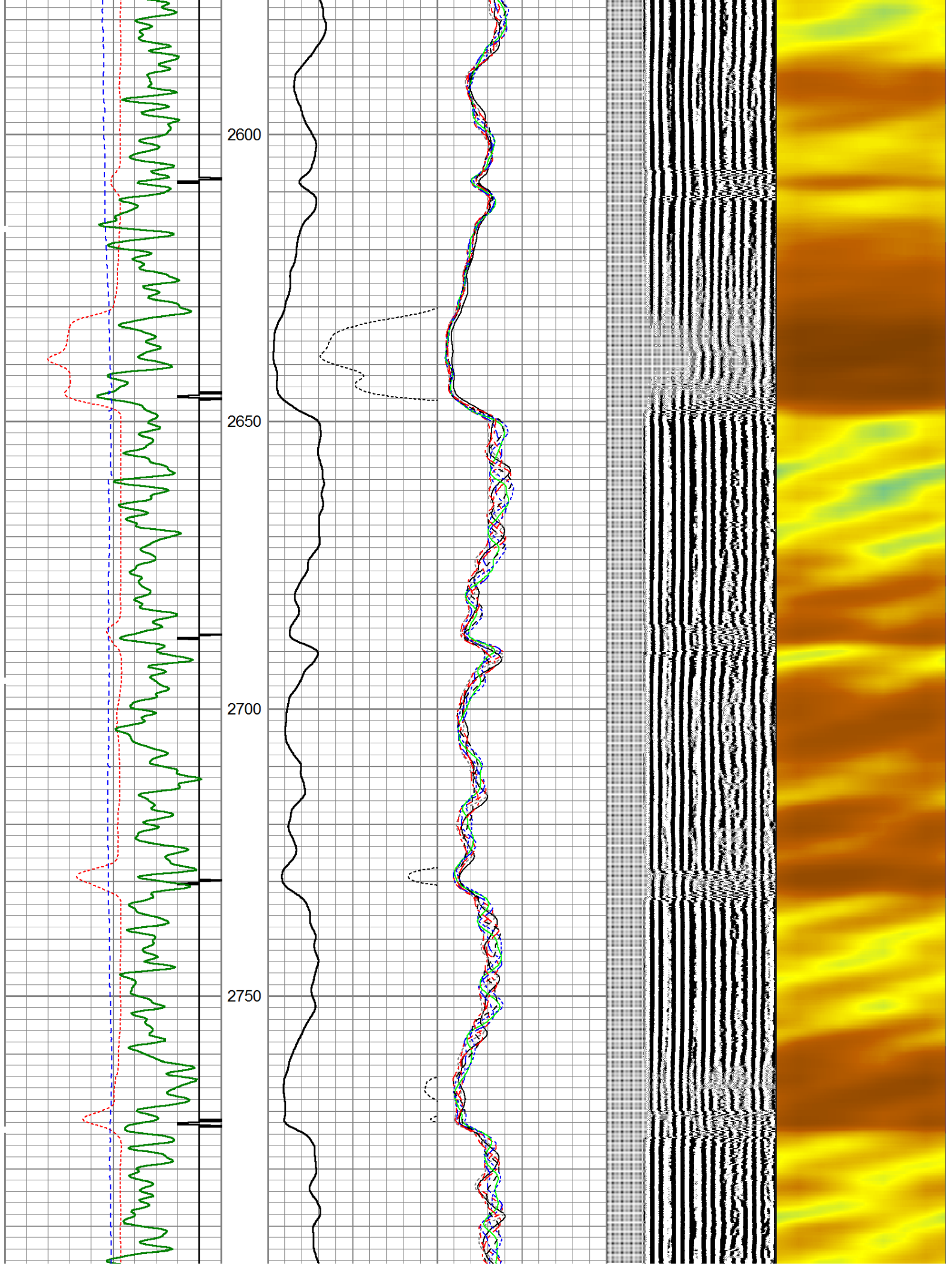


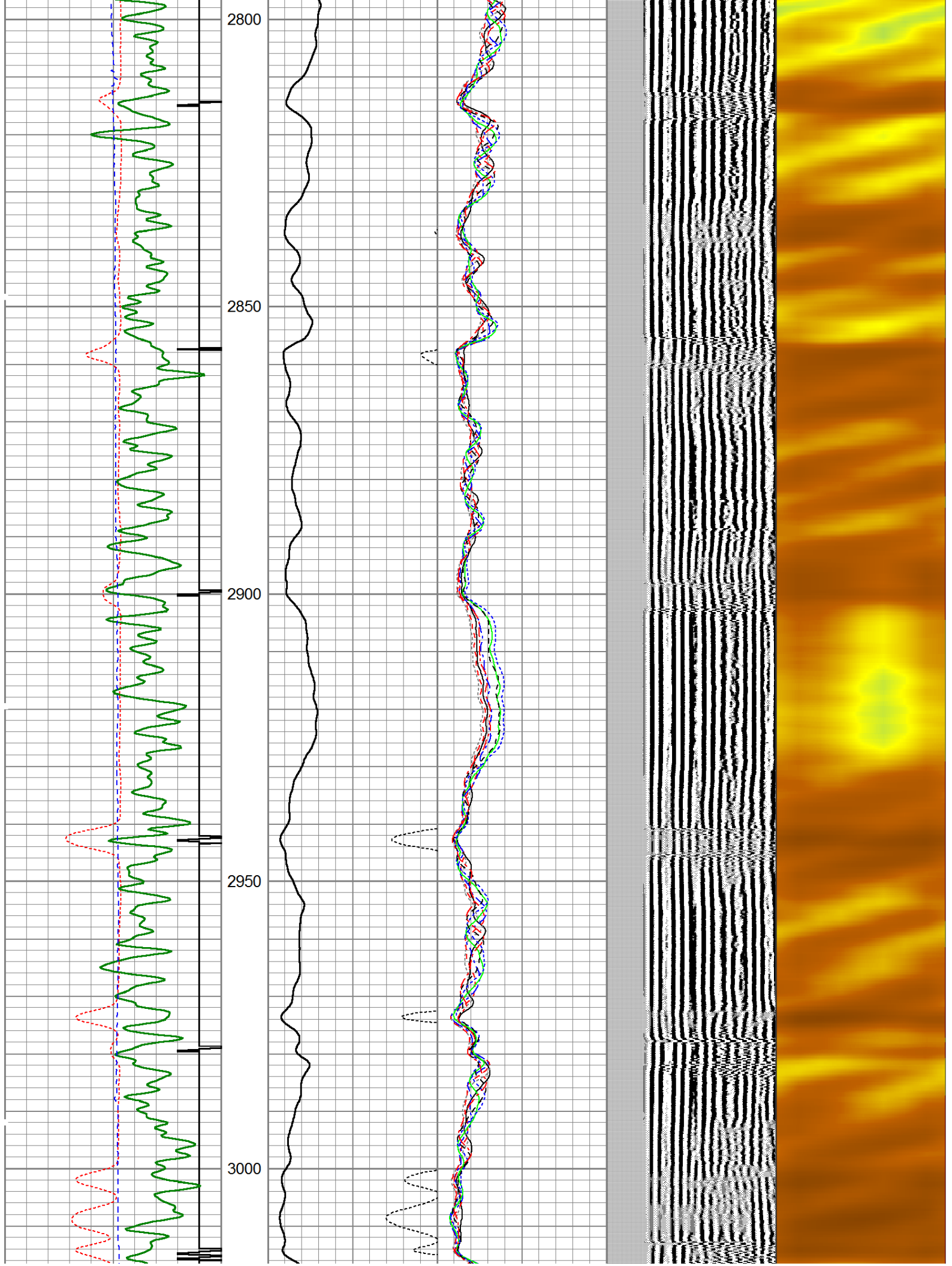


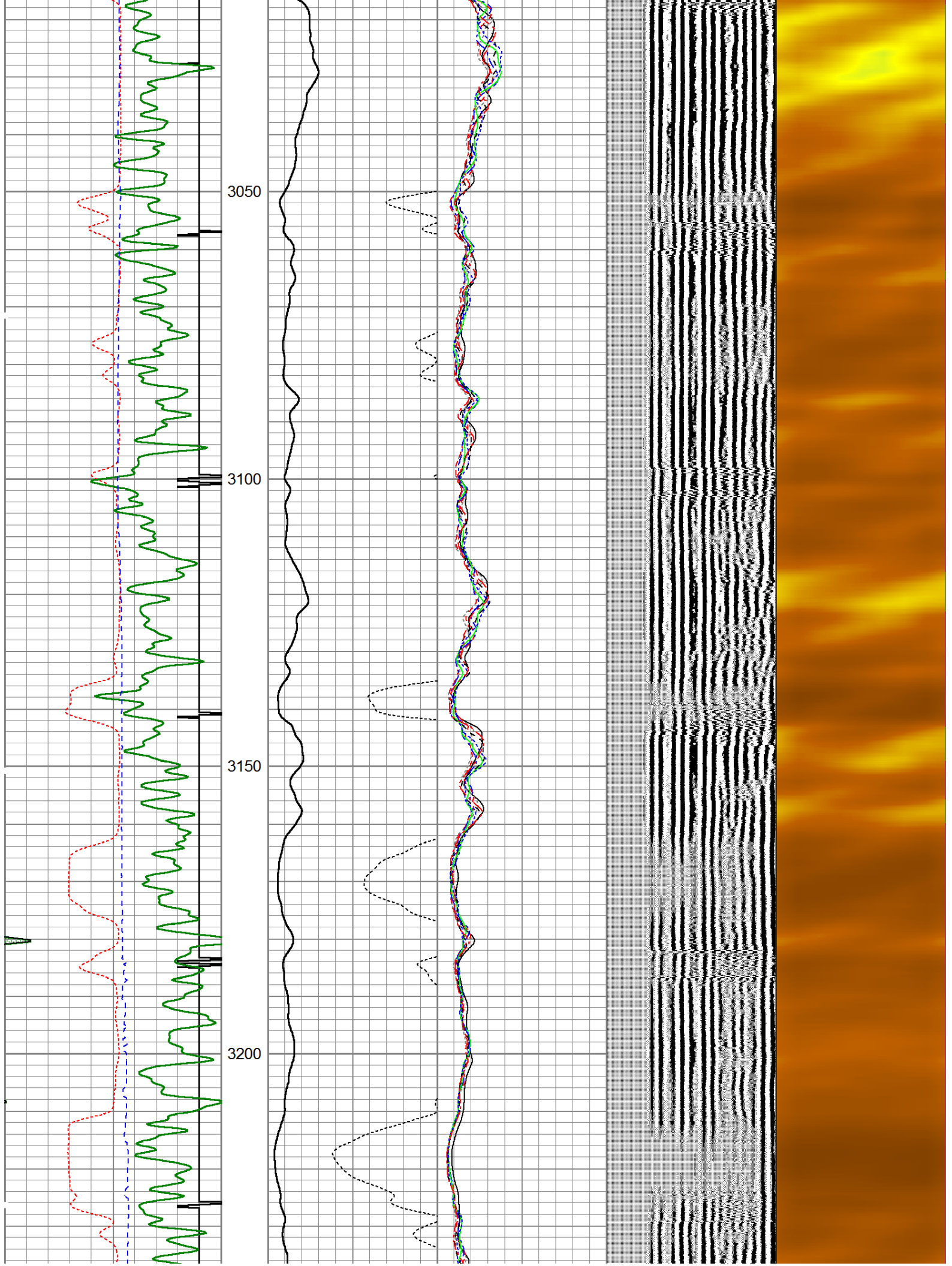


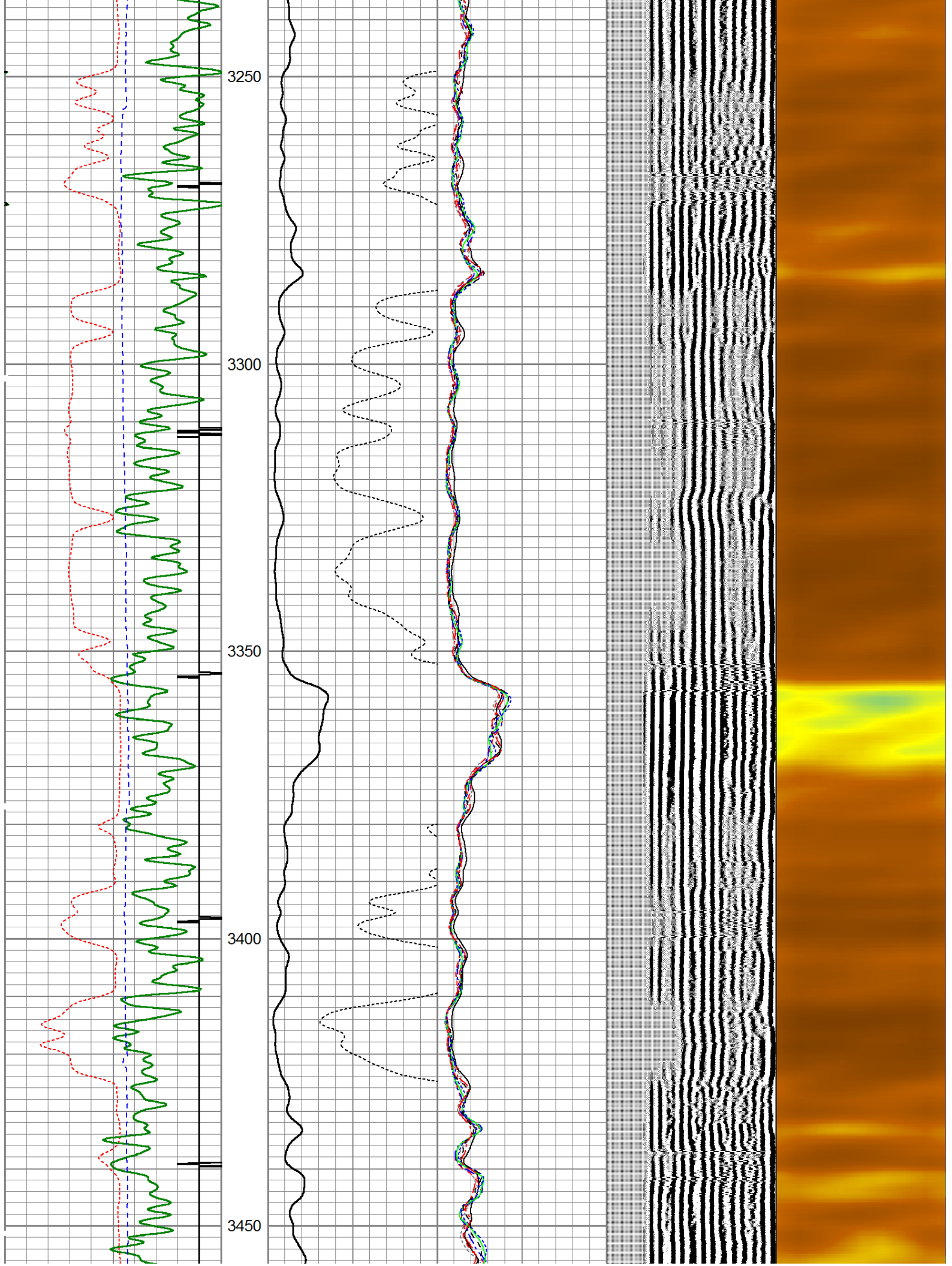


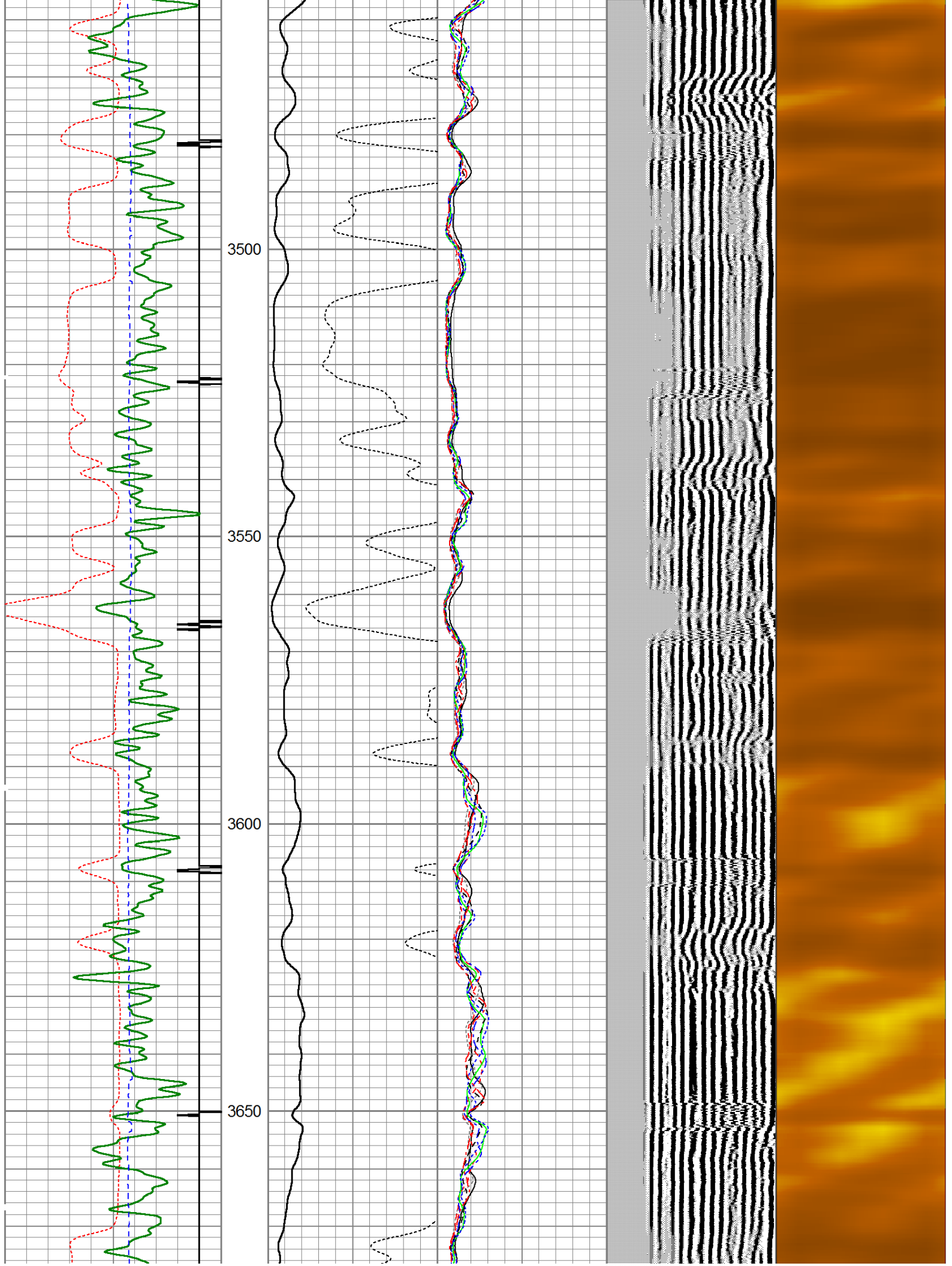


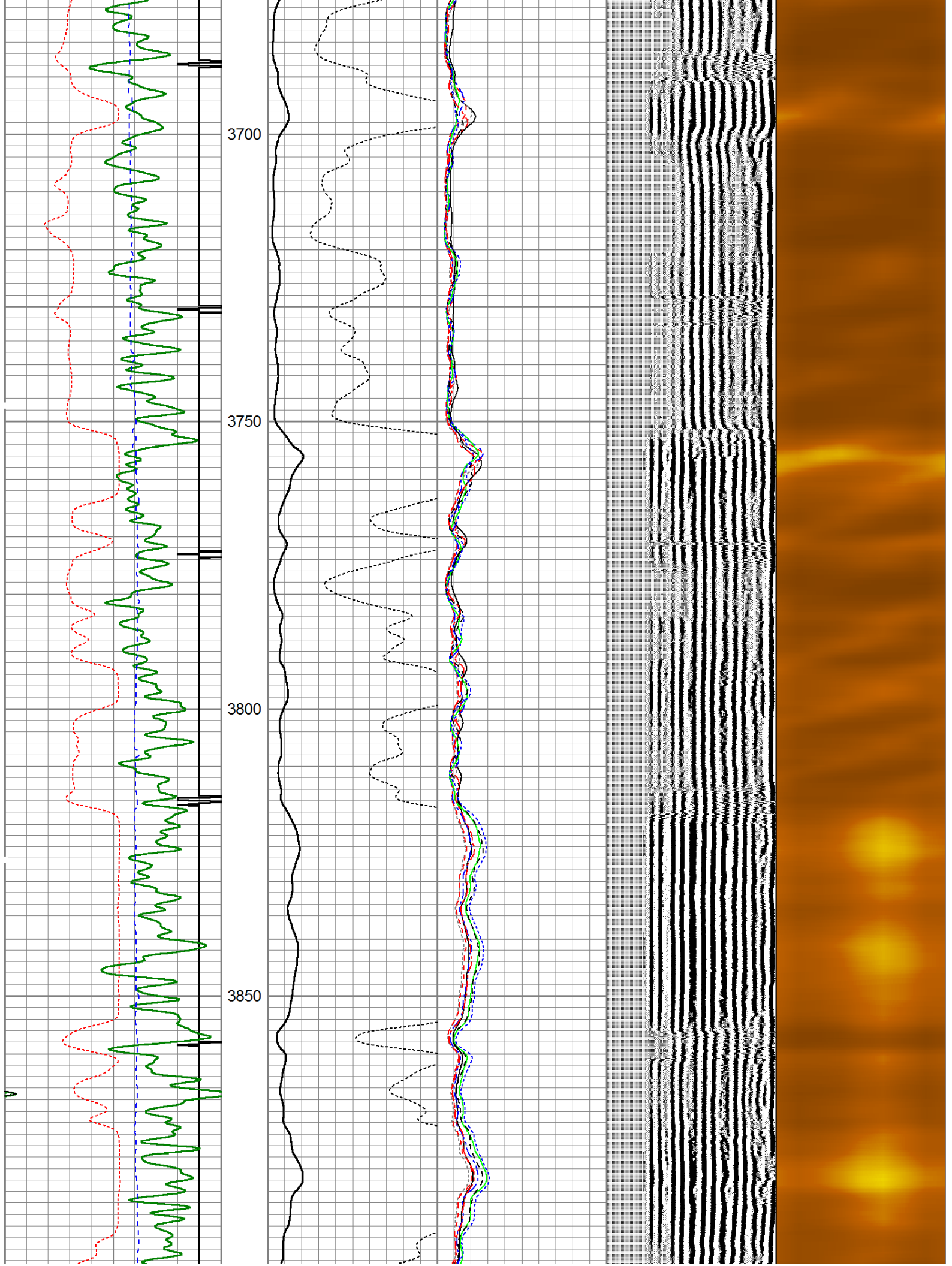


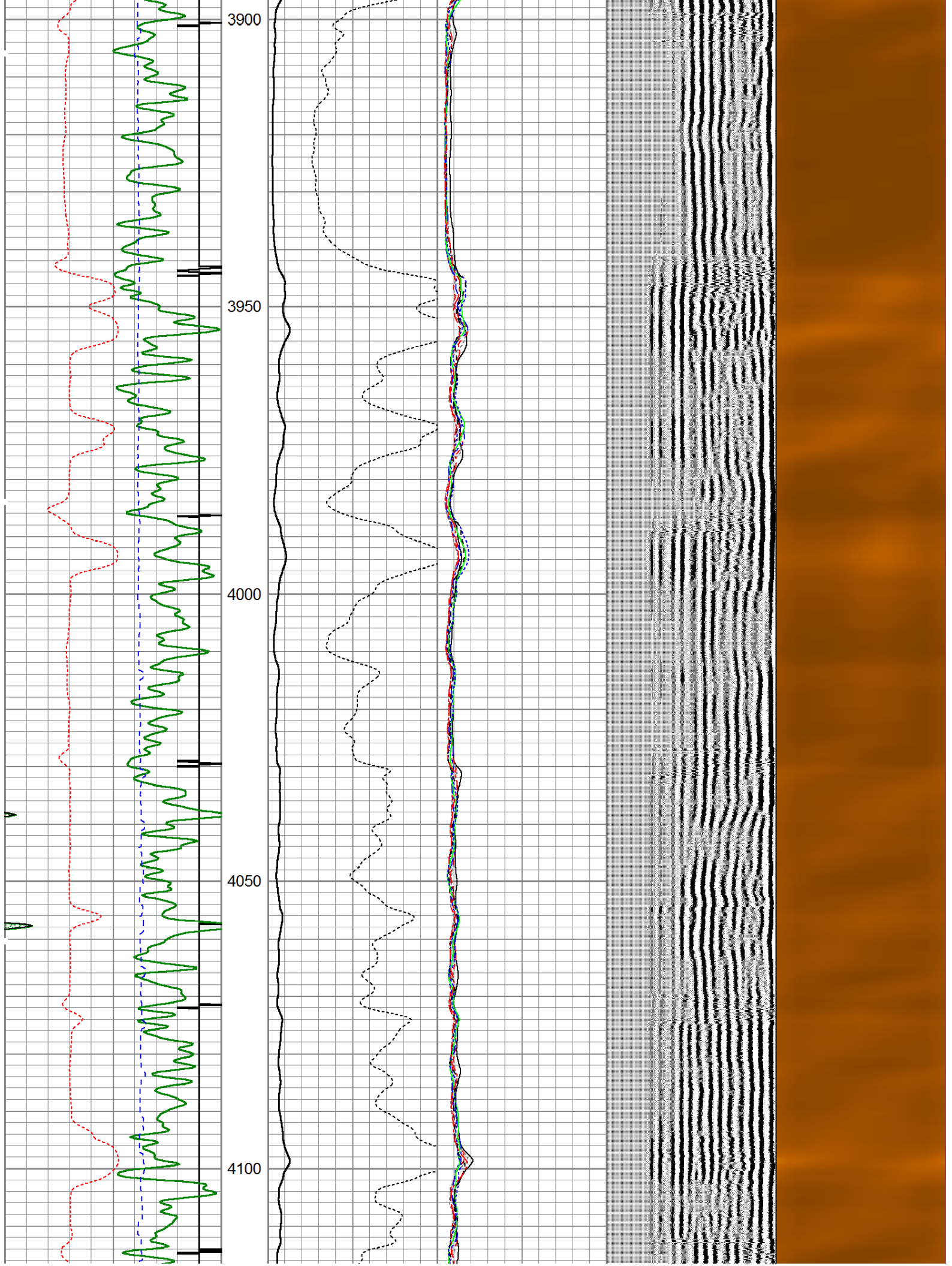


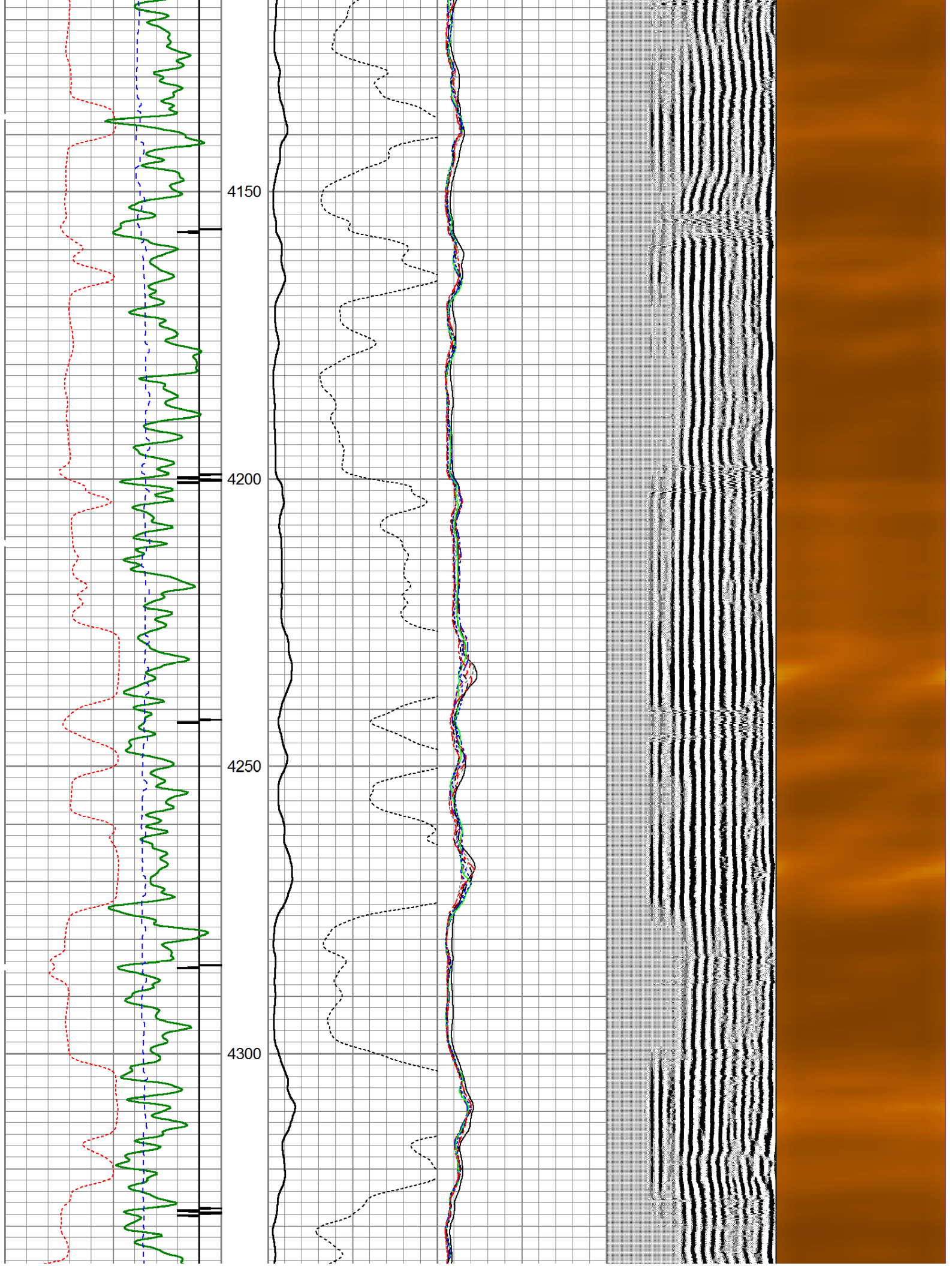


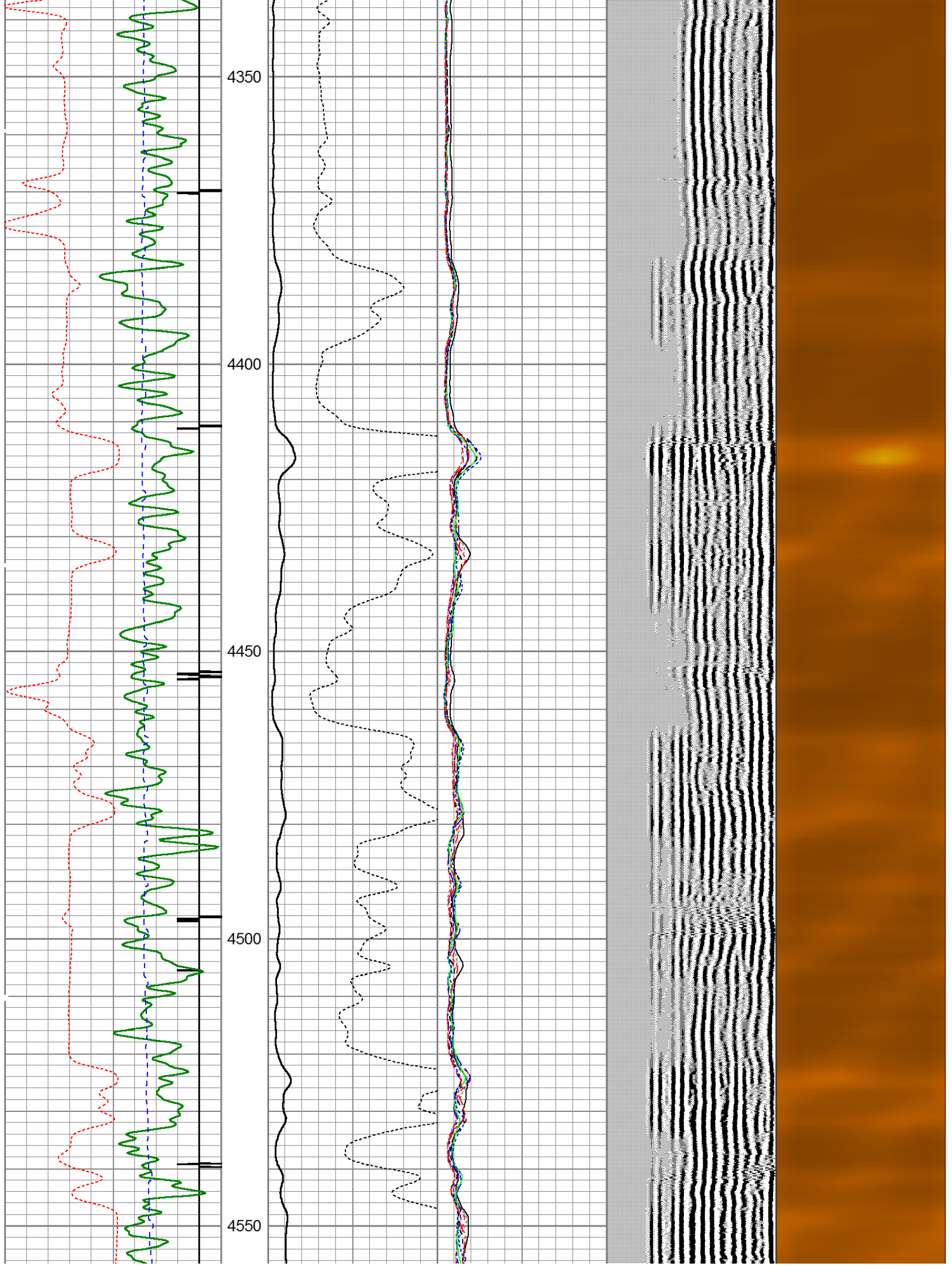


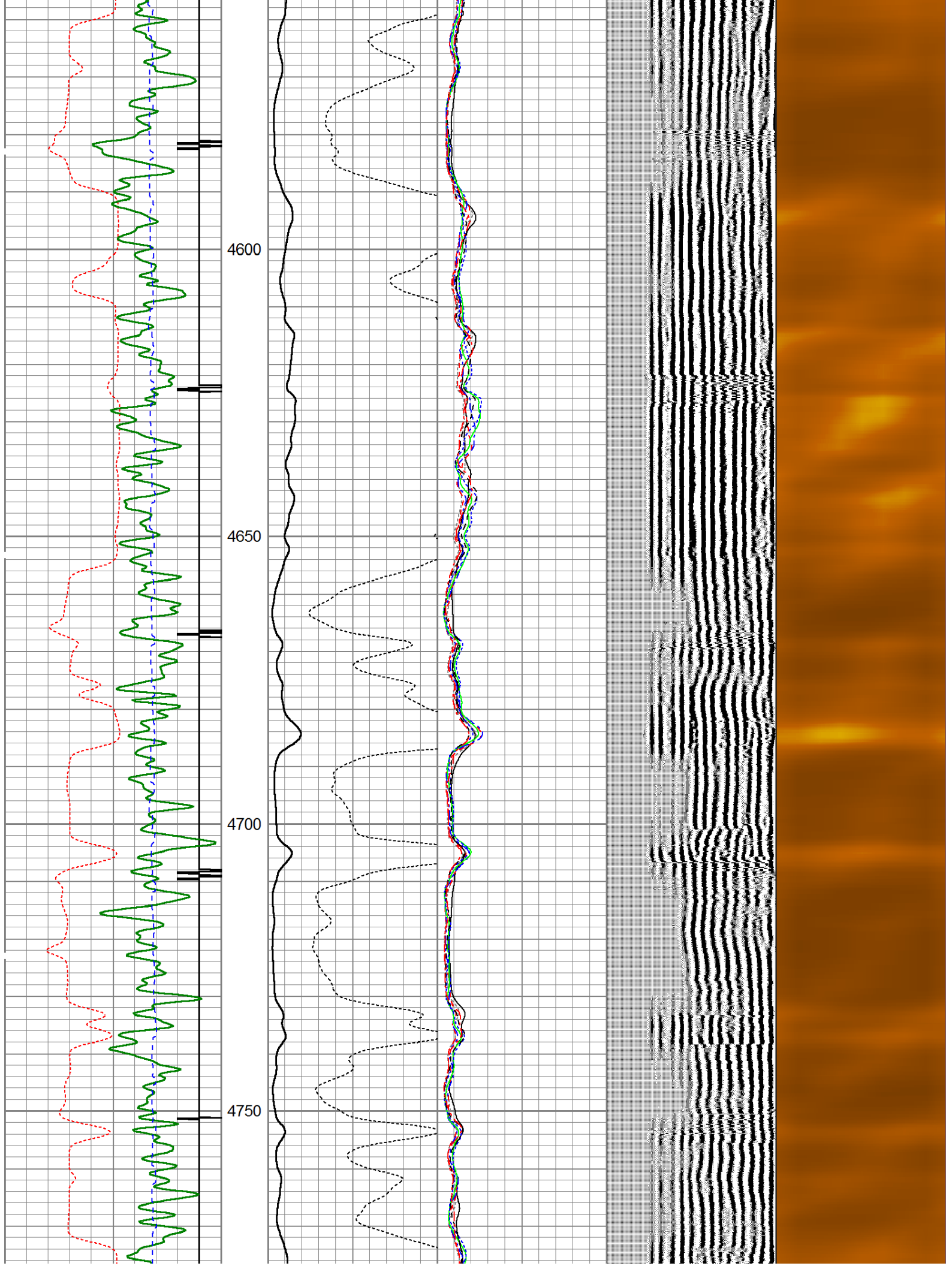


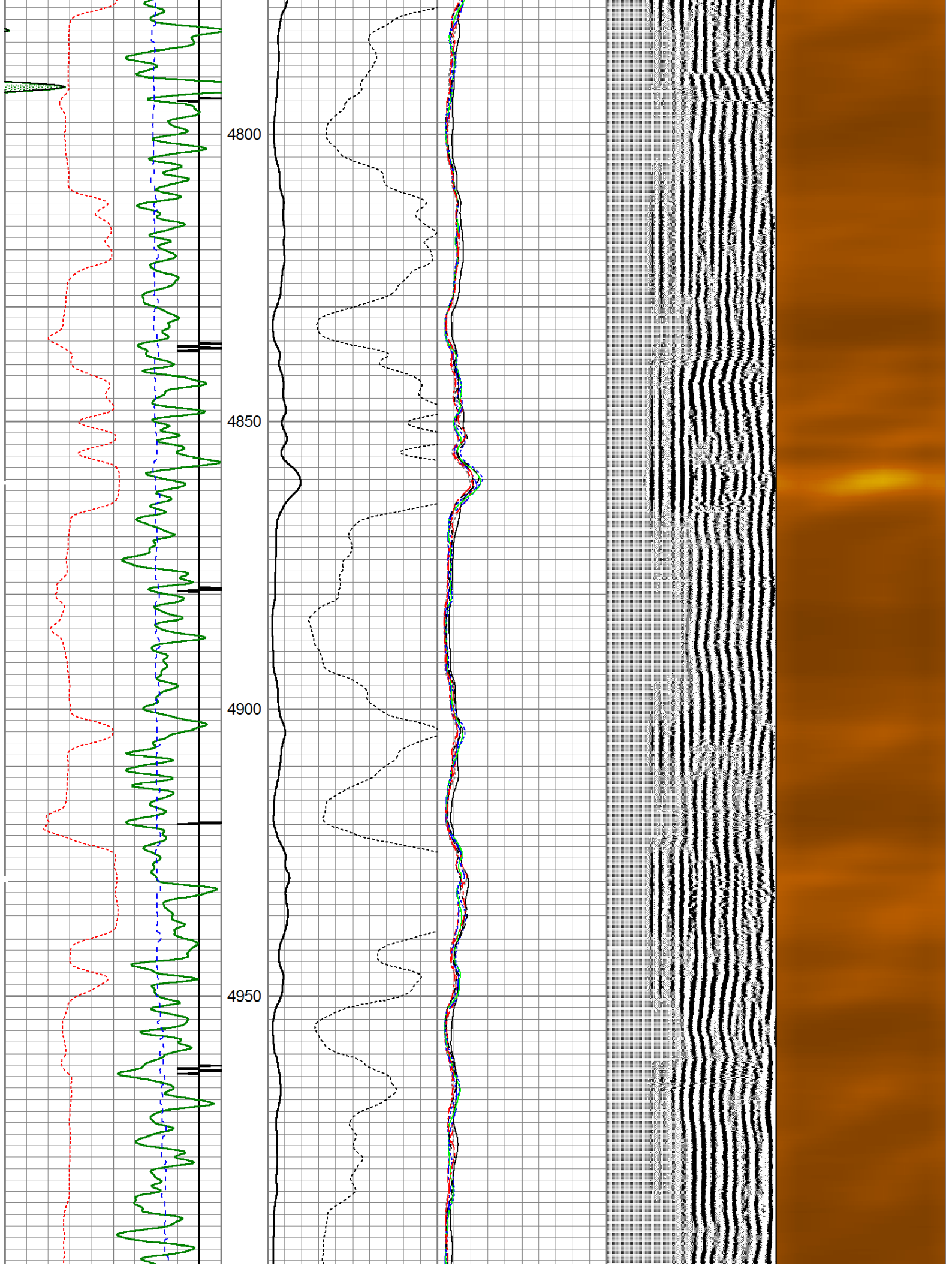




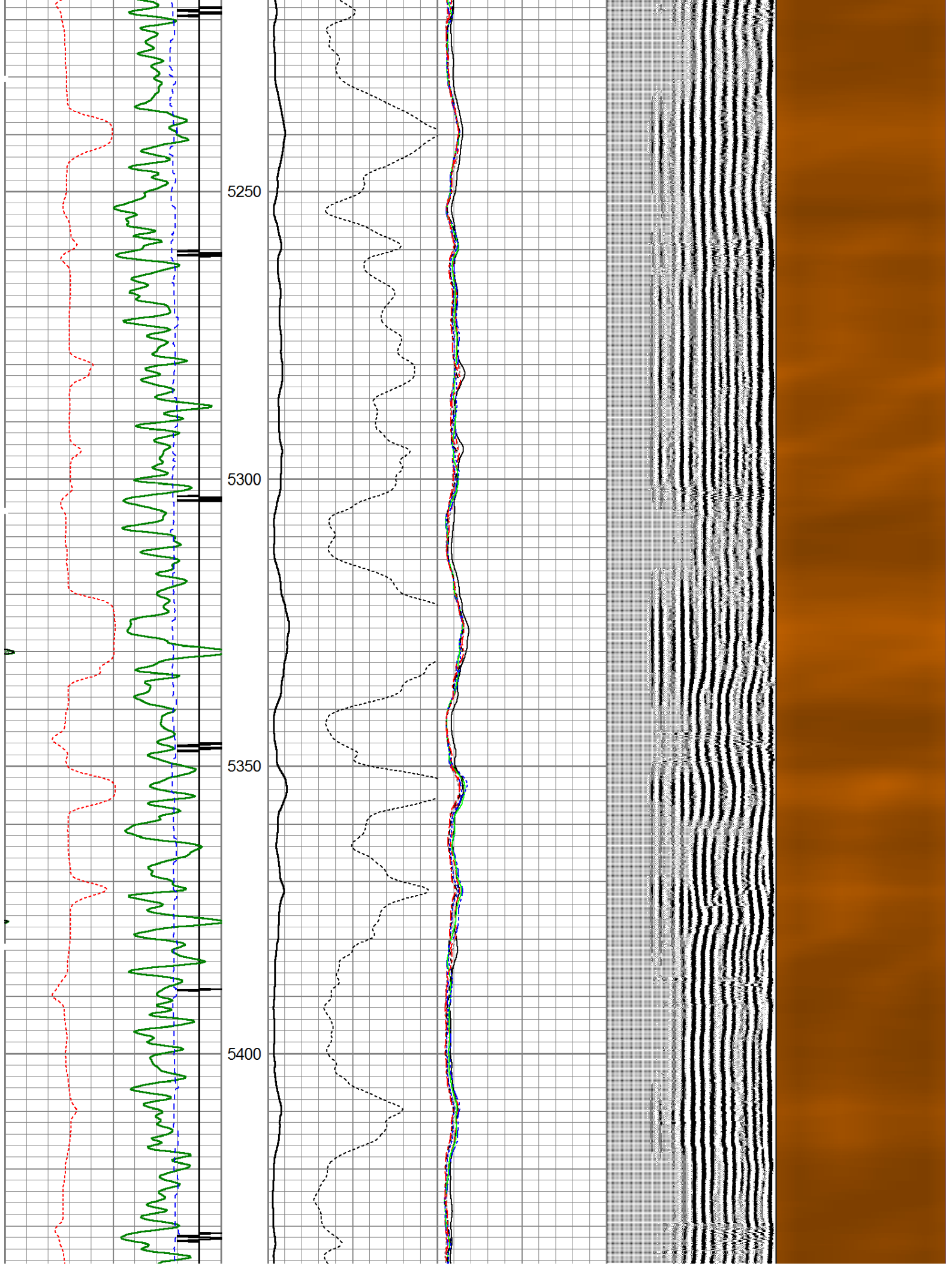


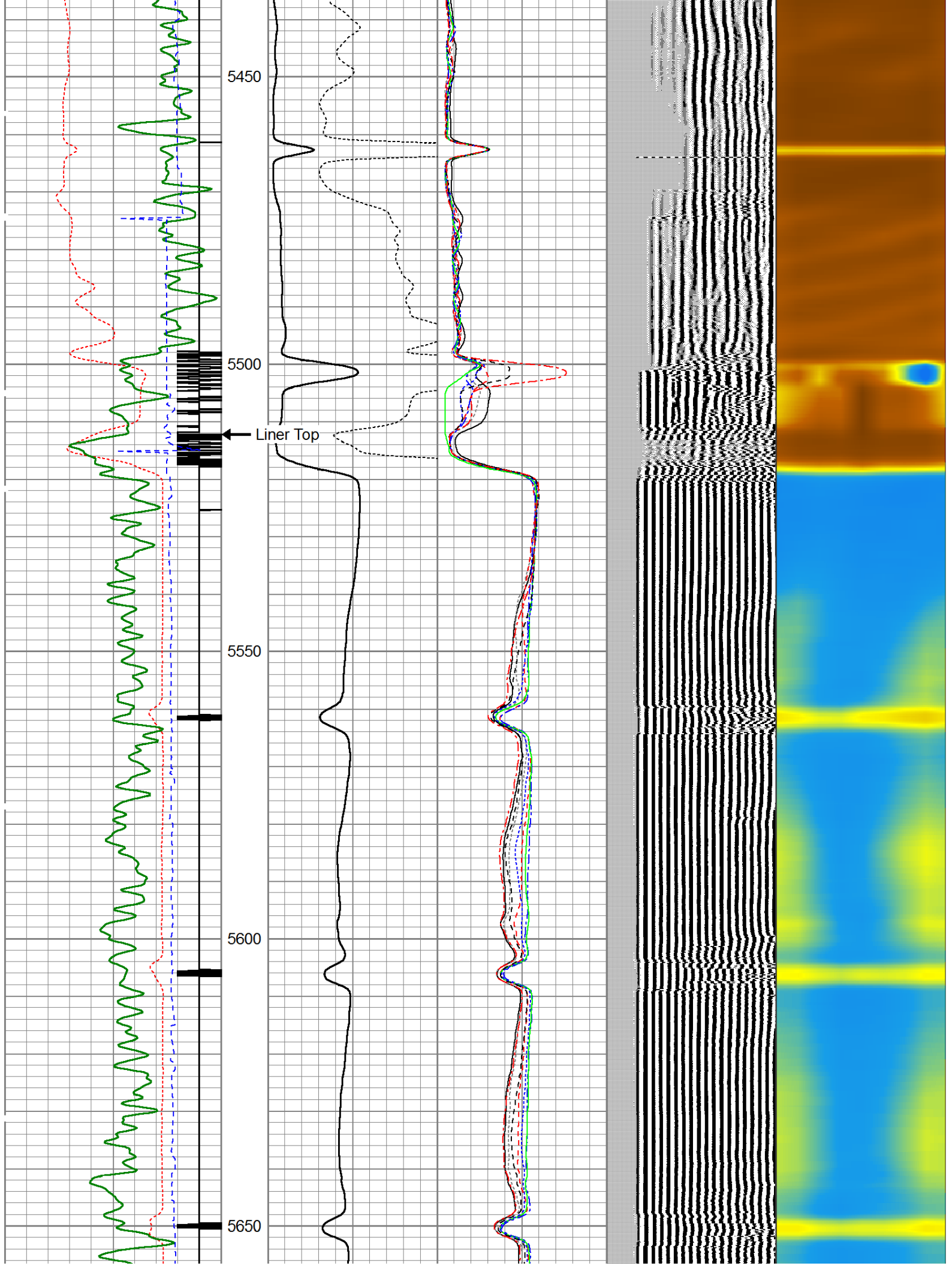


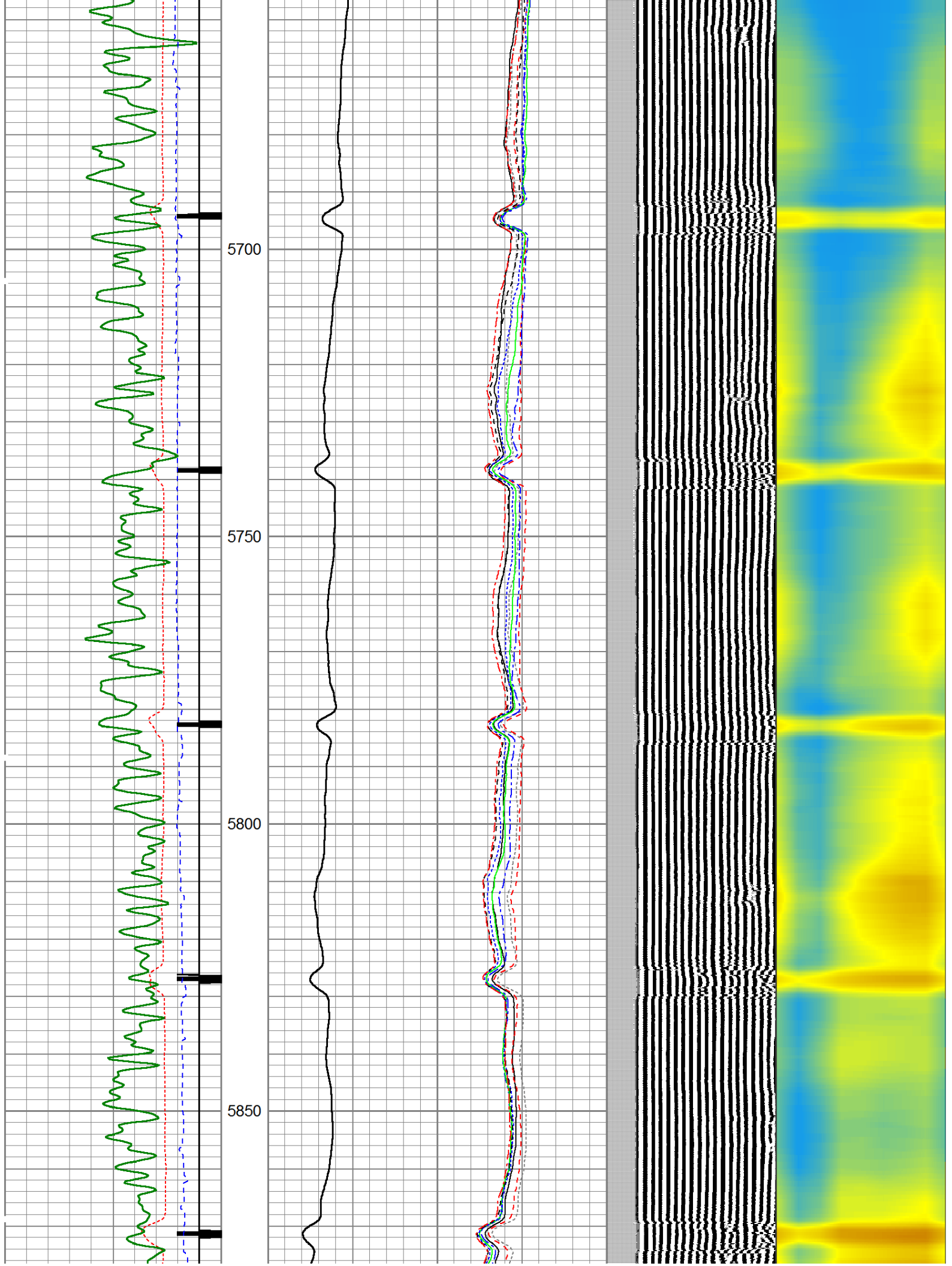


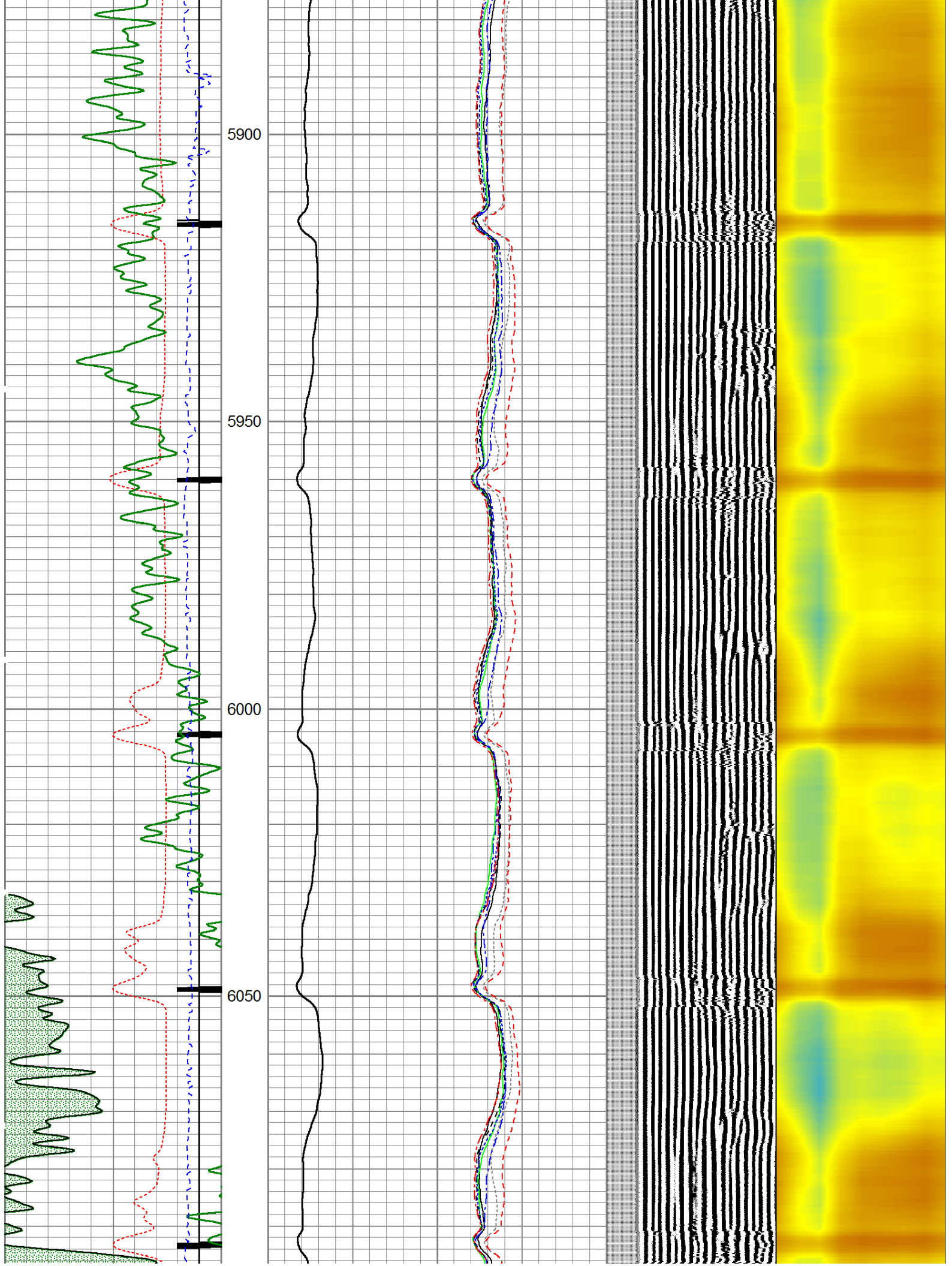


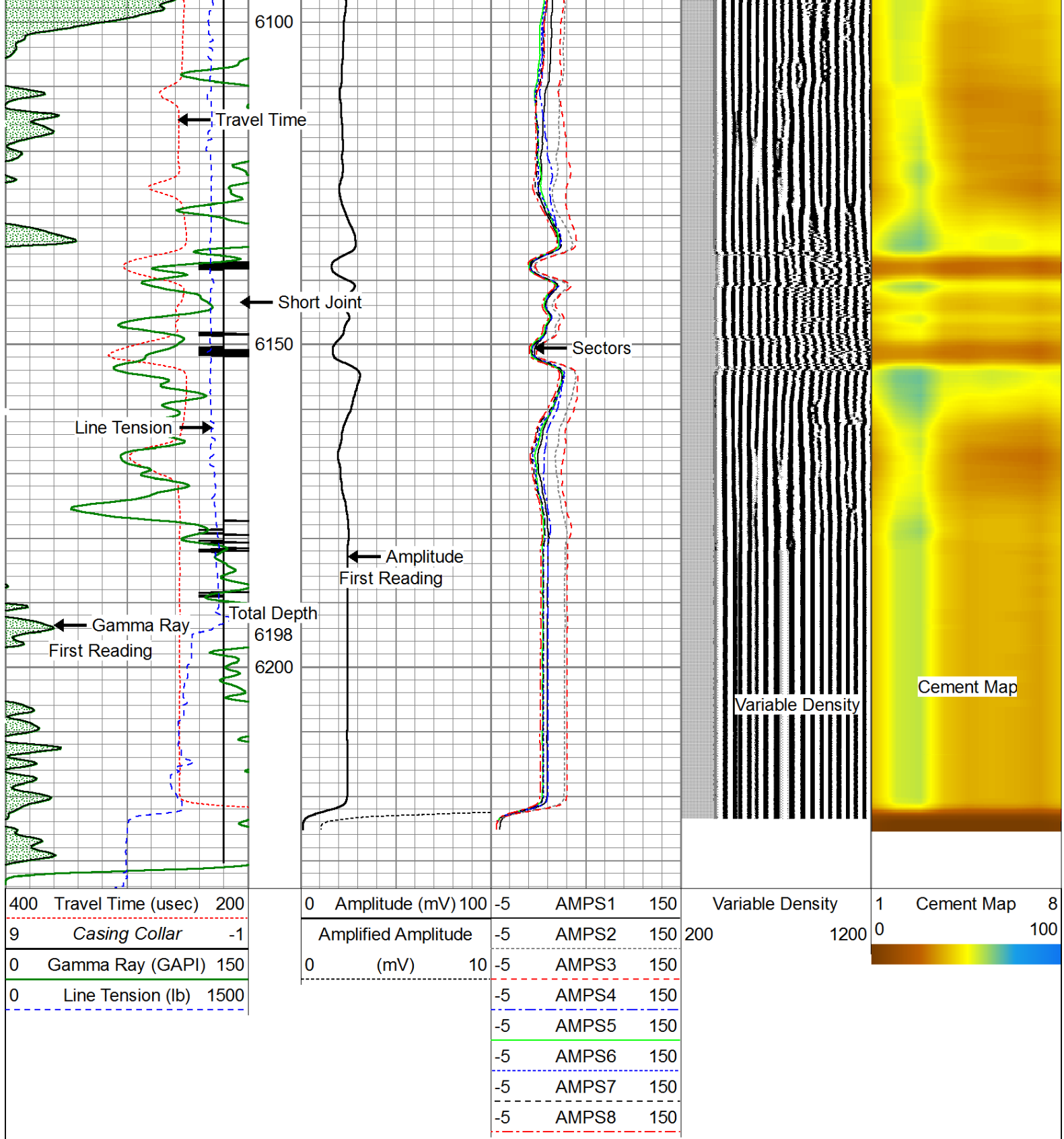












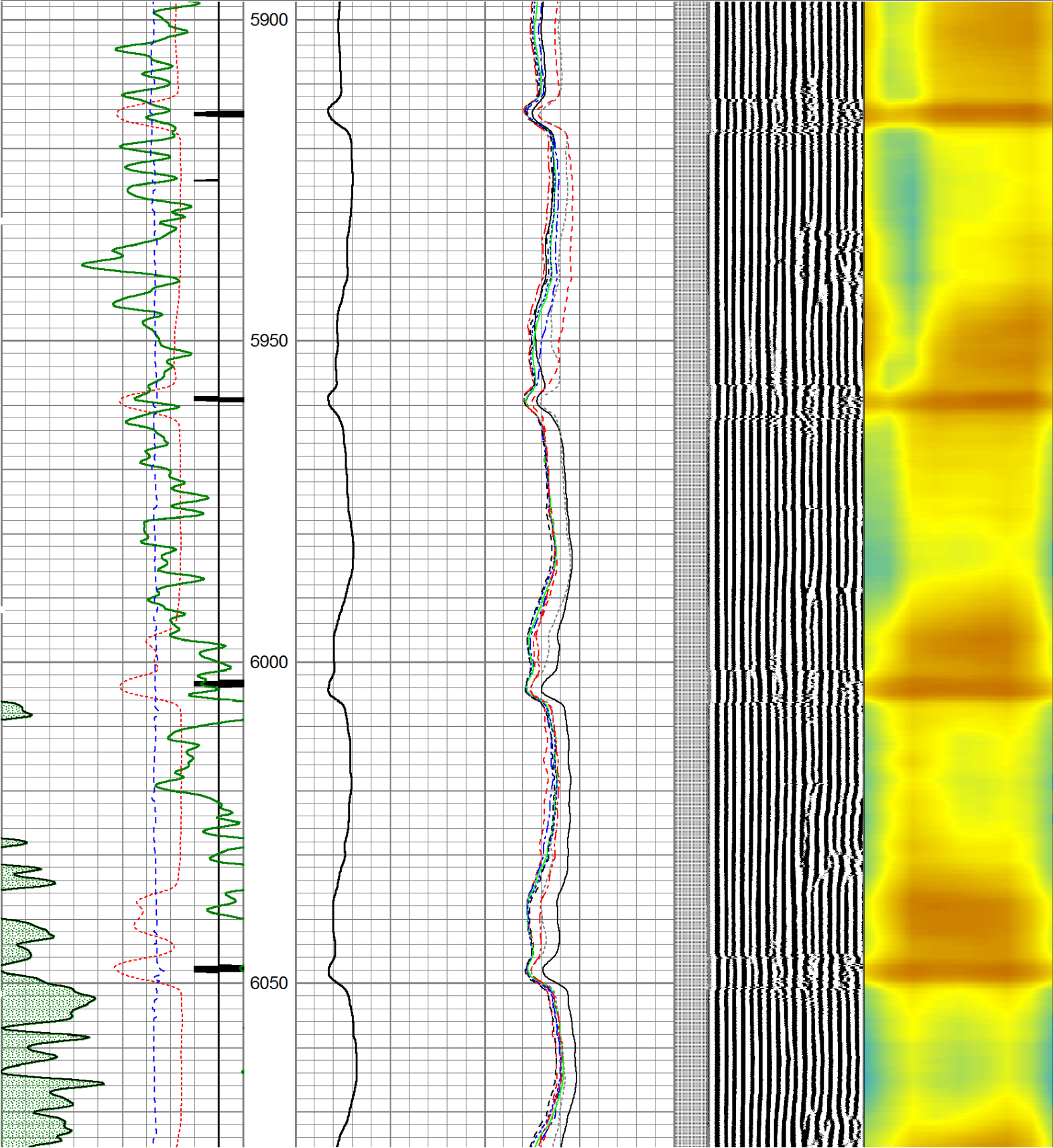
Repeat Pass (0 PSI)

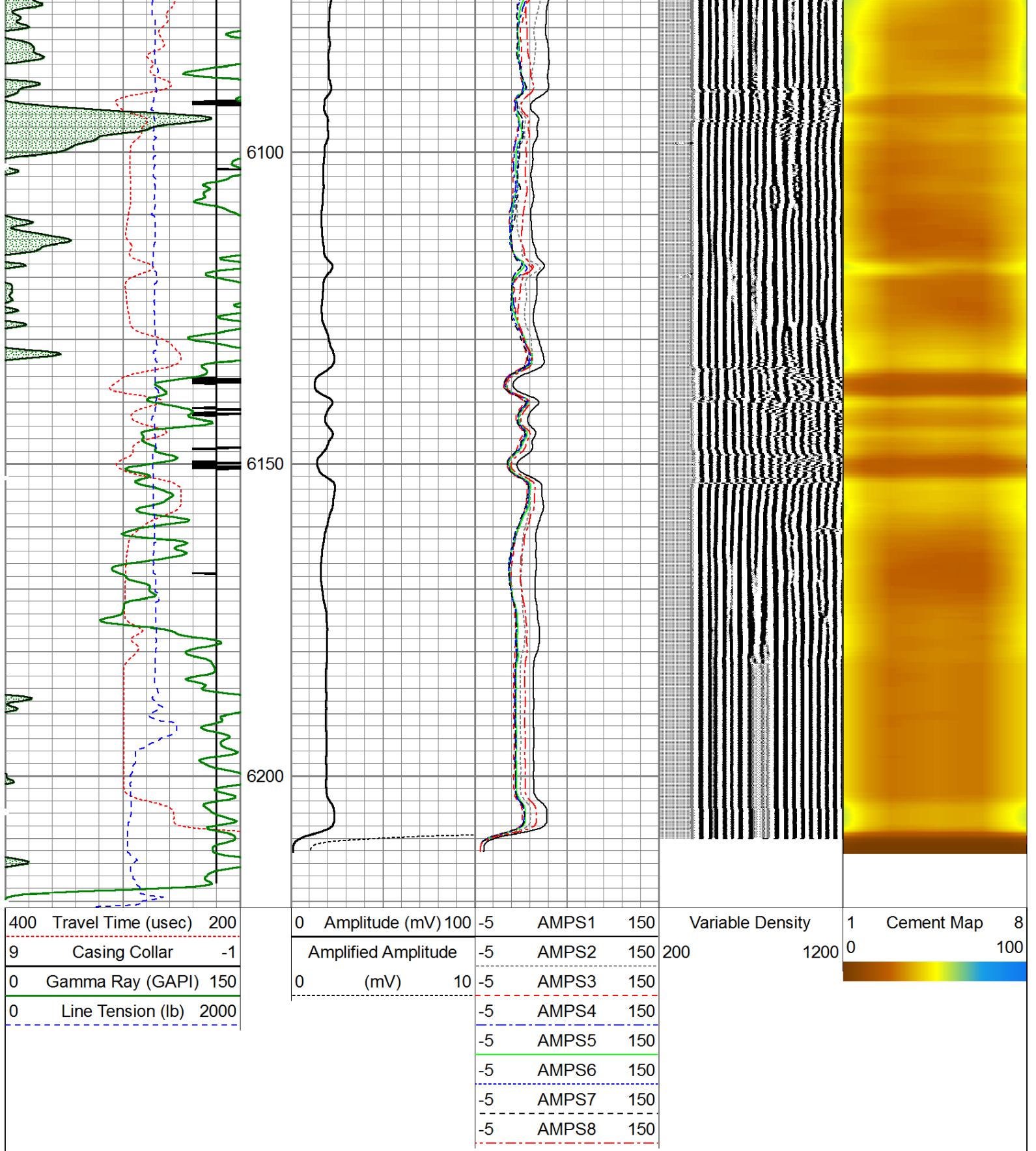
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 Dataset Pathname: Carizo/run1_Bond/pass6.1
 Presentation Format: scbl03
 Dataset Creation: Fri Dec 21 21:14:34 2012 by Calc SCH 111116
 Charted by: Depth in Feet scaled 1:240

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

0	Amplitude (mV)	100	-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		1	Cement Map	8
200	1200	0		100





Log Variables

Database: C:\Warrior\Data\carizo_patasnik_30_44_9_59_bond.db
Dataset: field/Carizo/run1_Bond/pass8

Top - Bottom

PPT u sec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft
0	23	0	1	0.8	7	0	0

BOTTEMP degF 100	BOREID in 7.875
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Calibration Report

Database File: carizo_patasnik_30_44_9_59_bond.db
Dataset Pathname: Carizo/run1_Bond/pass8.1
Dataset Creation: Fri Dec 21 21:10:20 2012 by Calc SCH 111116

Gamma Ray Calibration Report

Serial Number: 120367
Tool Model: Probe275
Performed: Sun Jun 13 13:33:21 1993

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: 749.333 ft

Master Calibration, performed Fri Dec 21 09:44:24 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	0.559	1.000	62.165	75.088	1.069
CAL	-0.001	0.729				
5'	-0.000	0.498	1.000	62.165	122.600	1.054
SUM						
S1	-0.017	0.594	0.000	100.000	113.591	2.766
S2	0.000	0.556	0.000	100.000	119.226	-0.081
S3	-0.000	0.534	0.000	100.000	119.827	0.021
S4	0.000	0.523	0.000	100.000	121.846	0.000
S5	-0.000	0.525	0.000	100.000	126.000	0.033
S6	-0.000	0.541	0.000	100.000	129.806	0.047
S7	-0.000	0.567	0.000	100.000	129.807	0.075
S8	-0.000	0.587	0.000	100.000	125.209	0.025

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	-0.001	0.729	1.000	0.000

Air Zero Calibration, performed Fri Dec 21 08:53:54 2012:

	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
WVF3FT	11.84		RBT-Probe (120424) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	11.84					
WVFS1	11.84					
WVFS2	11.84					
WVFS3	11.84					
WVFS4	11.84					
WVFS5	11.84					
WVFS6	11.84					
WVFS7	11.84					
WVFS8	11.84					
WVF5FT	10.84					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	3.88					
GR	2.54		GR-Probe275 (120367) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00

