



Radial Cement Bond
w/Variable Density
Gamma Ray/CCL/Temp Log
FINAL PRINT

Company	Great Western Oil & Gas Company
Well	Rio LC 12-369HNX
Field	Wattenberg
County	Adams
State	Colorado

Location:	API # : 05-001-10468	Other Services Gauge Ring
Permanent Datum	SEC 6 TWP 1S RGE 67W	Elevation
Log Measured From	NWNW 39.999618/-104.939783	K.B. 5088'
Drilling Measured From	KB	D.F. 5088'
		G.L. 5068'

Date	Sep 11 2019
Run Number	One
Depth Driller	18102'
Depth Logger	8310'
Bottom Logged Interval	8310'
Top Log Interval	Surface
Open Hole Size	8 1/2"
Type Fluid	H2O
Density / Viscosity	
Max. Recorded Temp.	232 Deg F
Estimated Cement Top	
Time Well Ready	0600
Time Logger on Bottom	0630
Equipment Number	59
Location	Plattville, CO
Recorded By	S Cornett
Witnessed By	Dave Pozas

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Mgt/Ft	Top	Bottom
Surface String	9 5/8"	36# J-55	Surface	1779'
Prot. String				
Production String	5 1/2"	17# P-110	Surface	18102'
Liner				

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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

Logged with 0 PSI
Log Correlated to Short Joint @ 7616'-7626'
Tool Ran with 3 Gemco Centerlizers

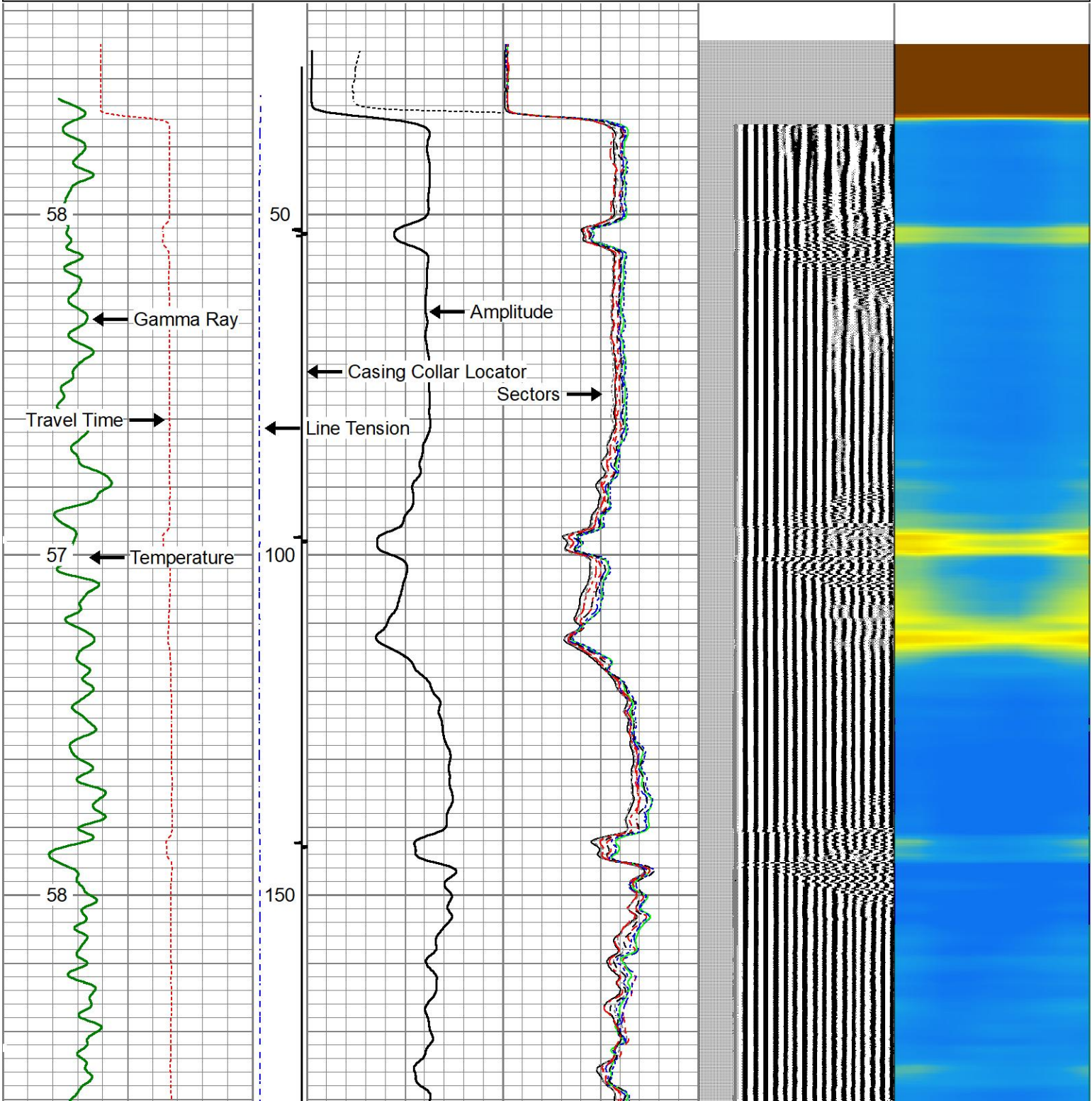
Thank You for choosing KLX Energy Services.

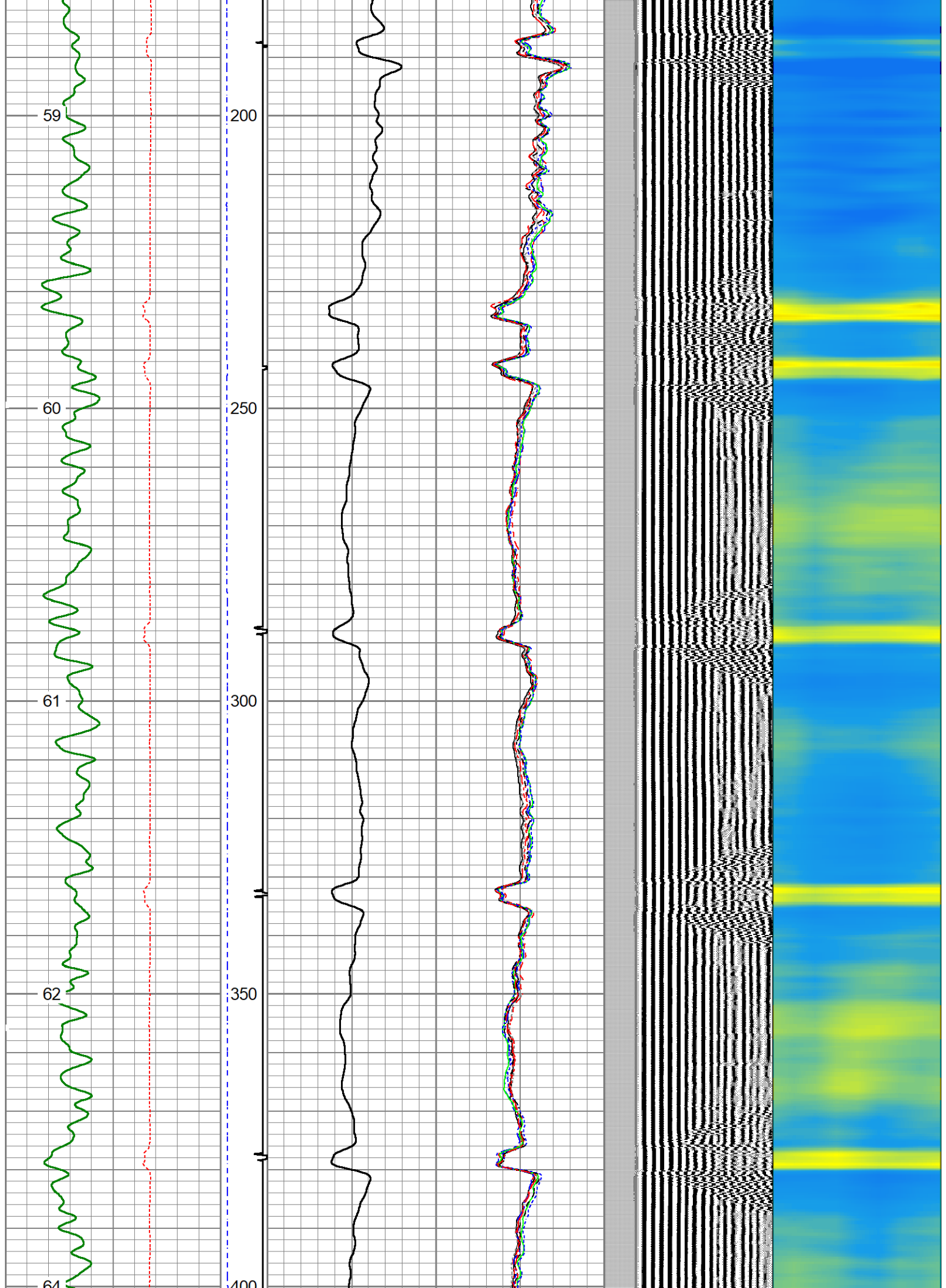


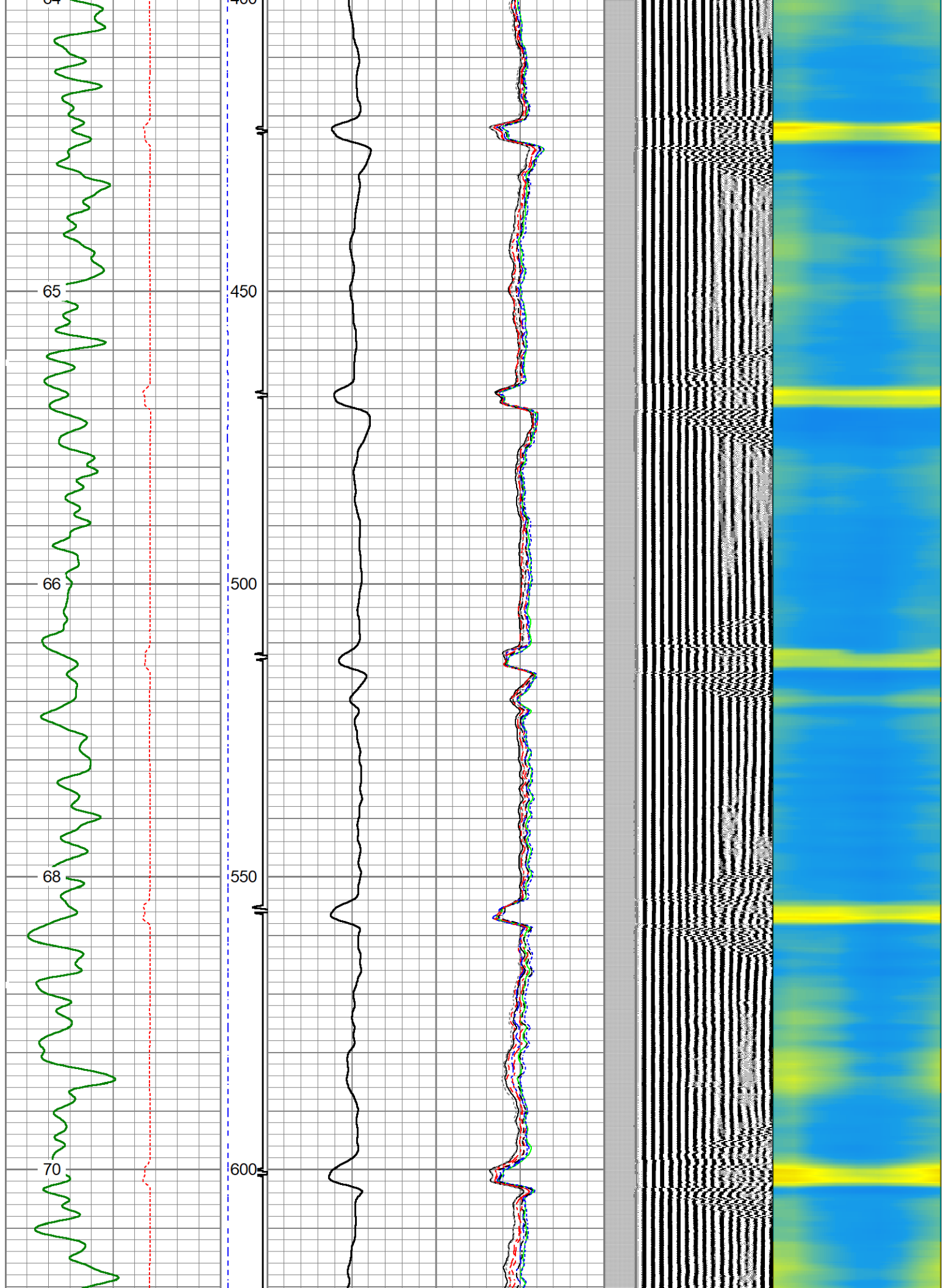
Main Pass 0 PSI

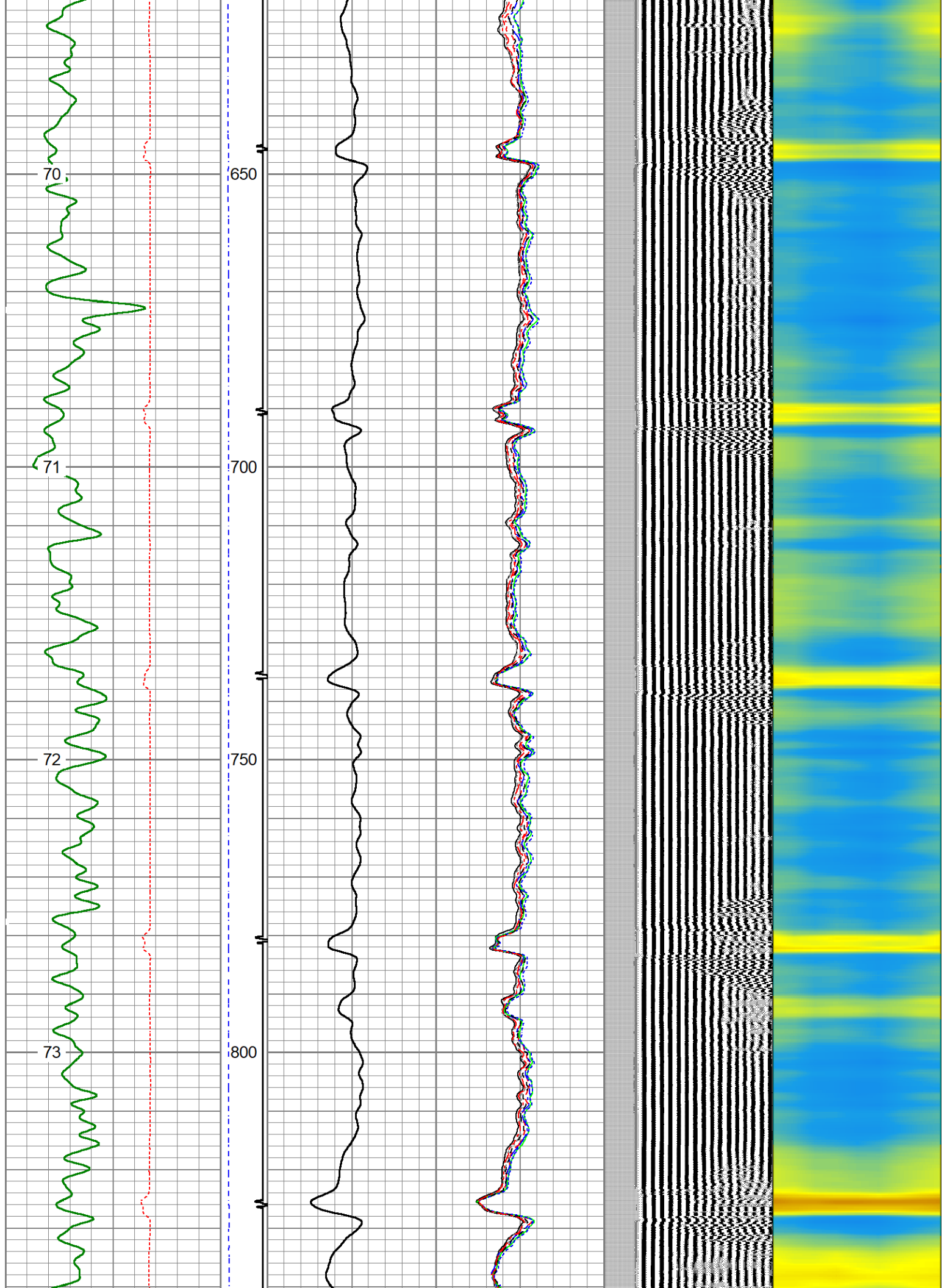
Database File	gw_rio_lc12_369hnx_cbl_sep_11_19.db
Dataset Pathname	pass12.1
Presentation Format	scbl03
Dataset Creation	Wed Sep 11 11:19:48 2019
Charted by	Depth in Feet scaled 1:240

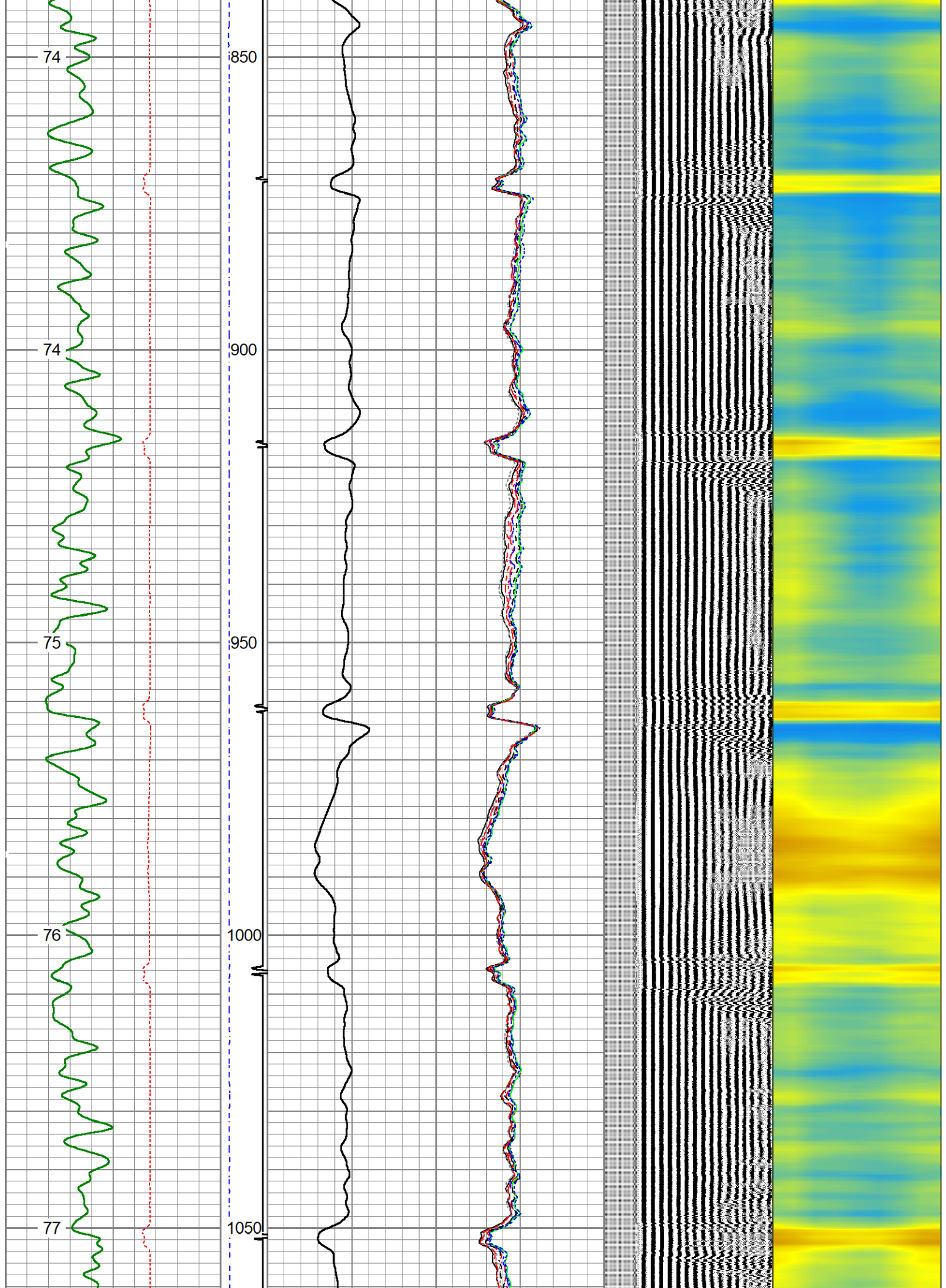
400	Travel Time (usec)	200	ing Co	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
0	Gamma Ray (GAPI)	150	9	-1	Amplified Amplitude		-5	Sector 2	150	200	(usec)	1200	
TEMP			e Tens	0	(mV)	10	-5	Sector 3	150				
(degF)			(lb)				-5	Sector 4	150				
			(2000				-5	Sector 5	150				
							-5	Sector 6	150				
							-5	Sector 7	150				
							-5	Sector 8	150				

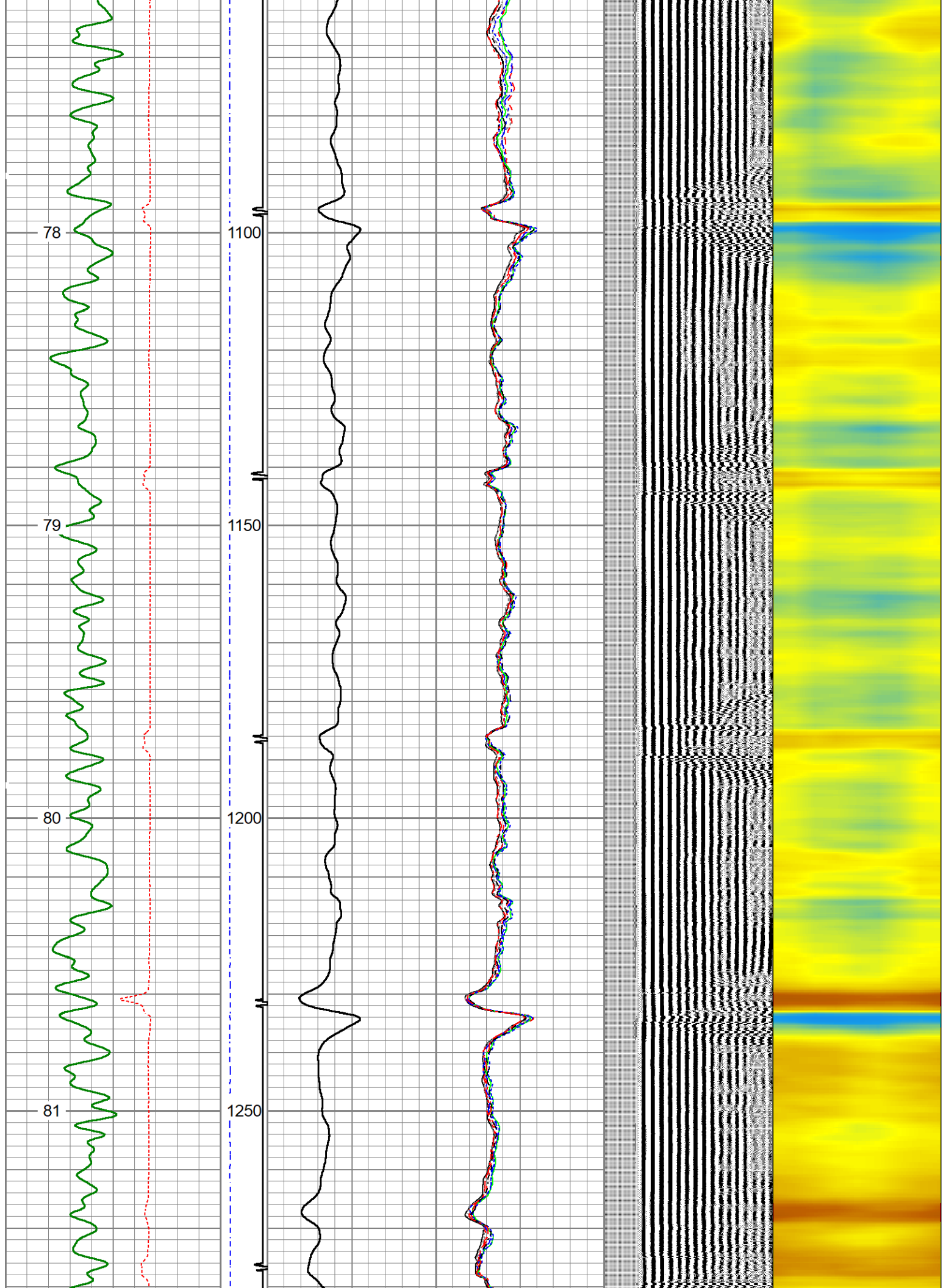


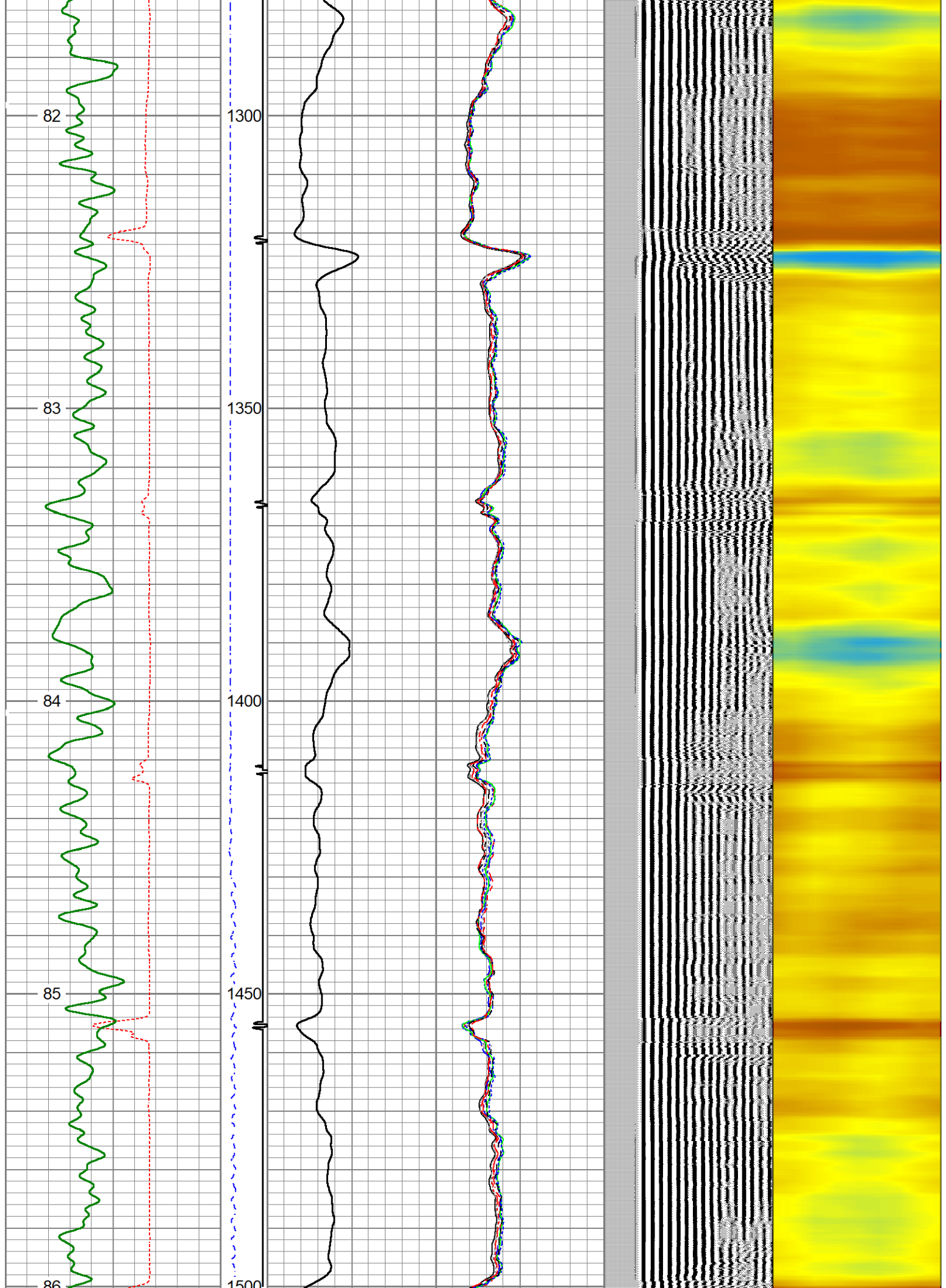


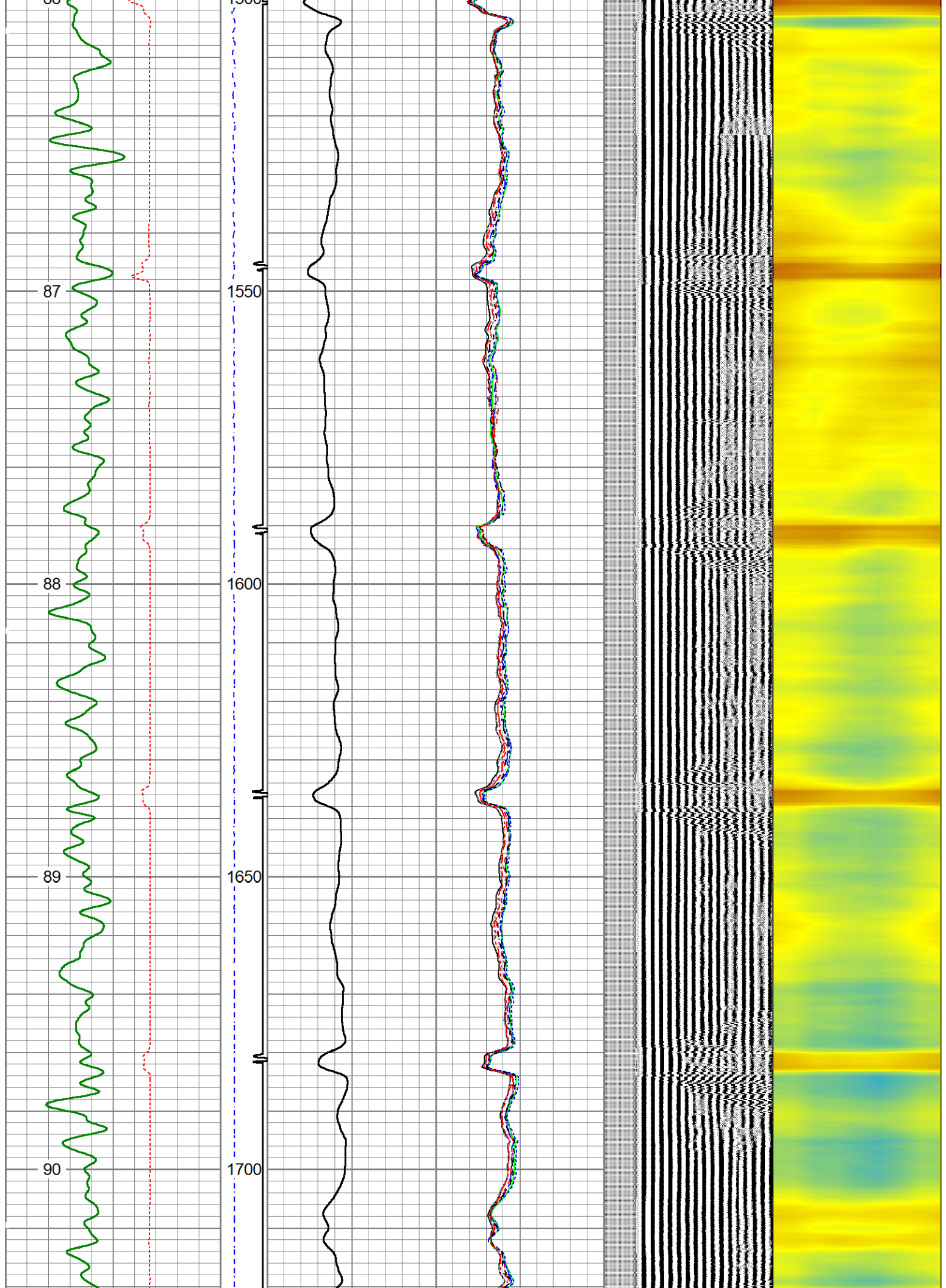


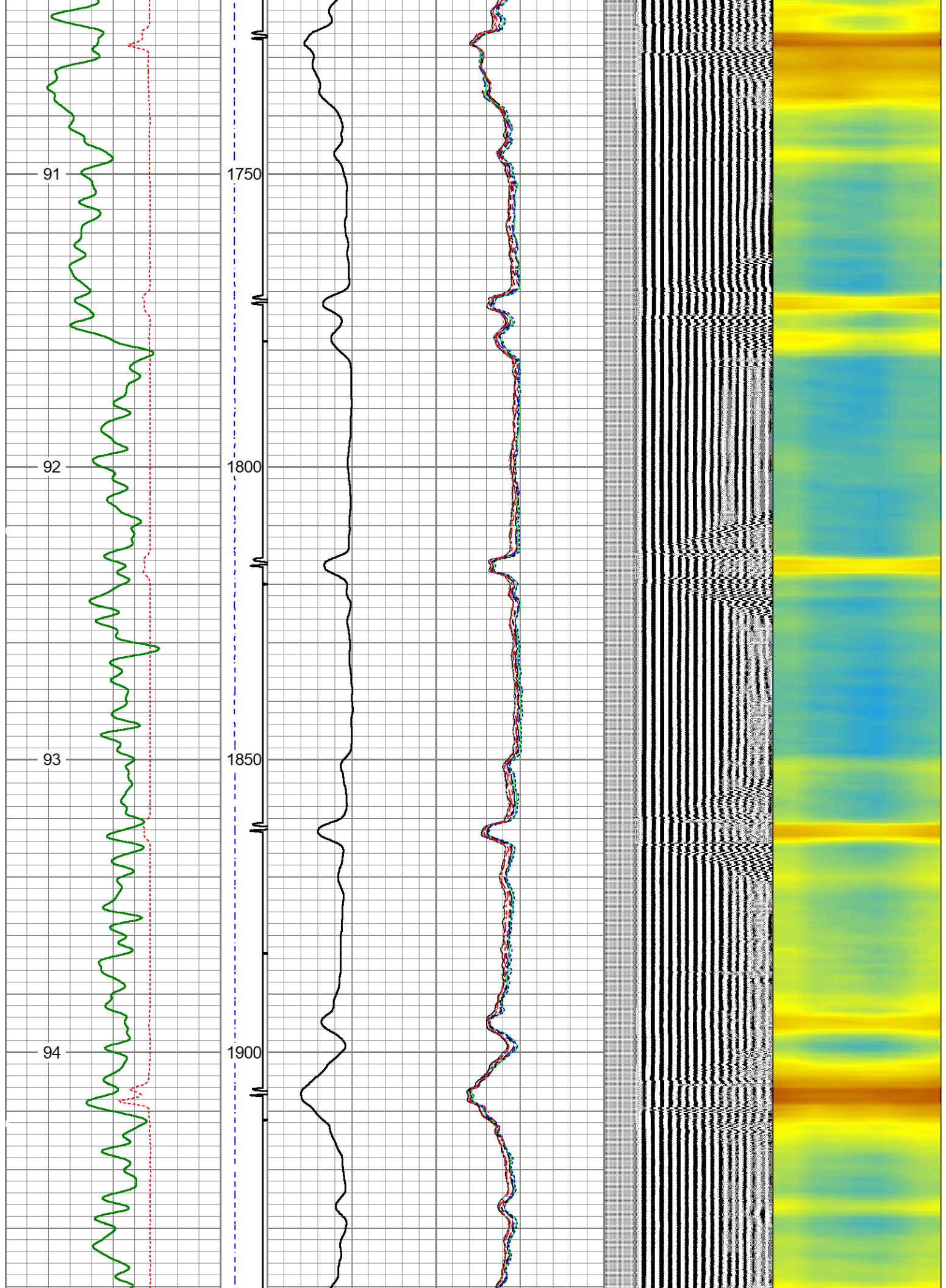


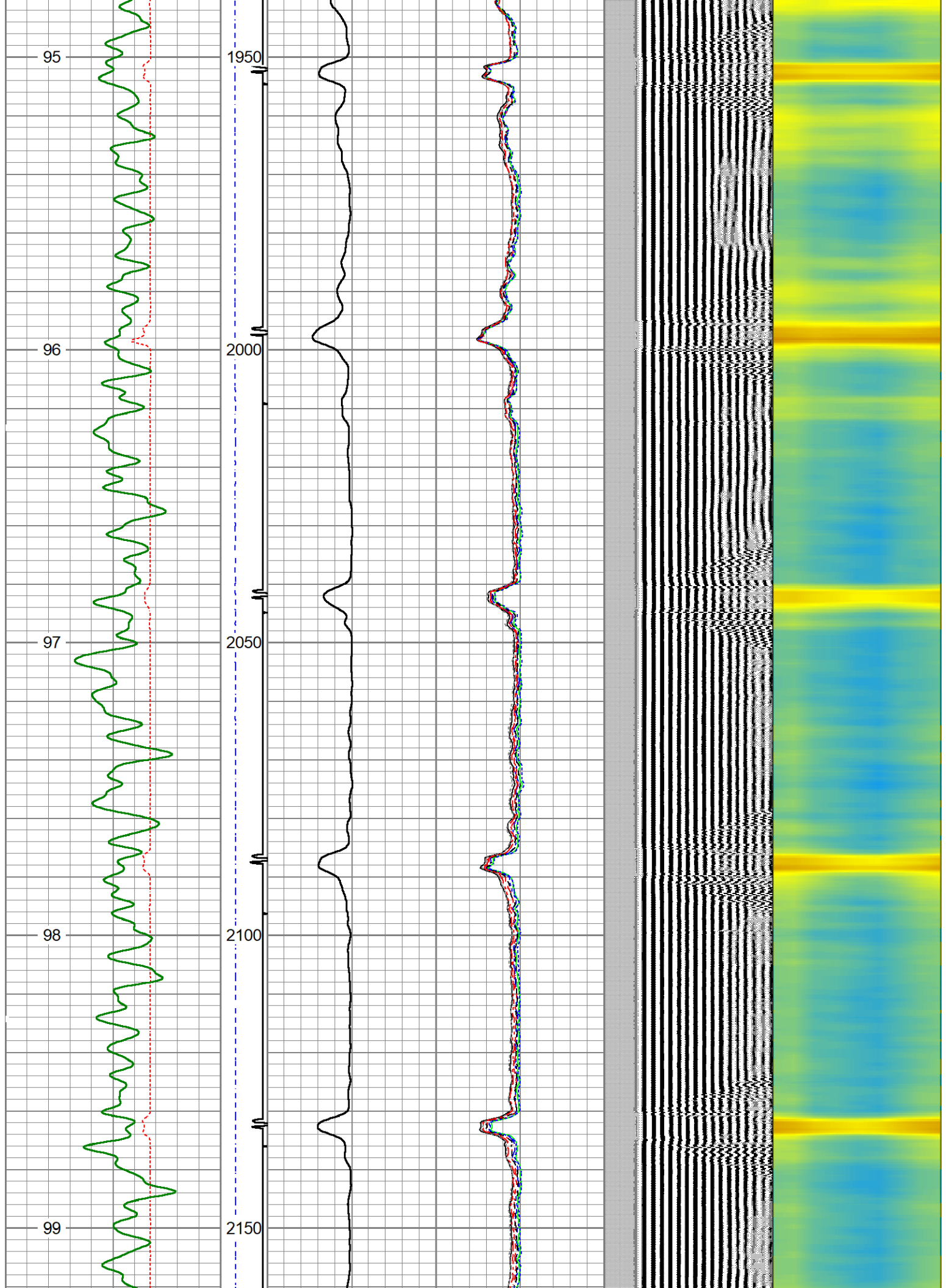


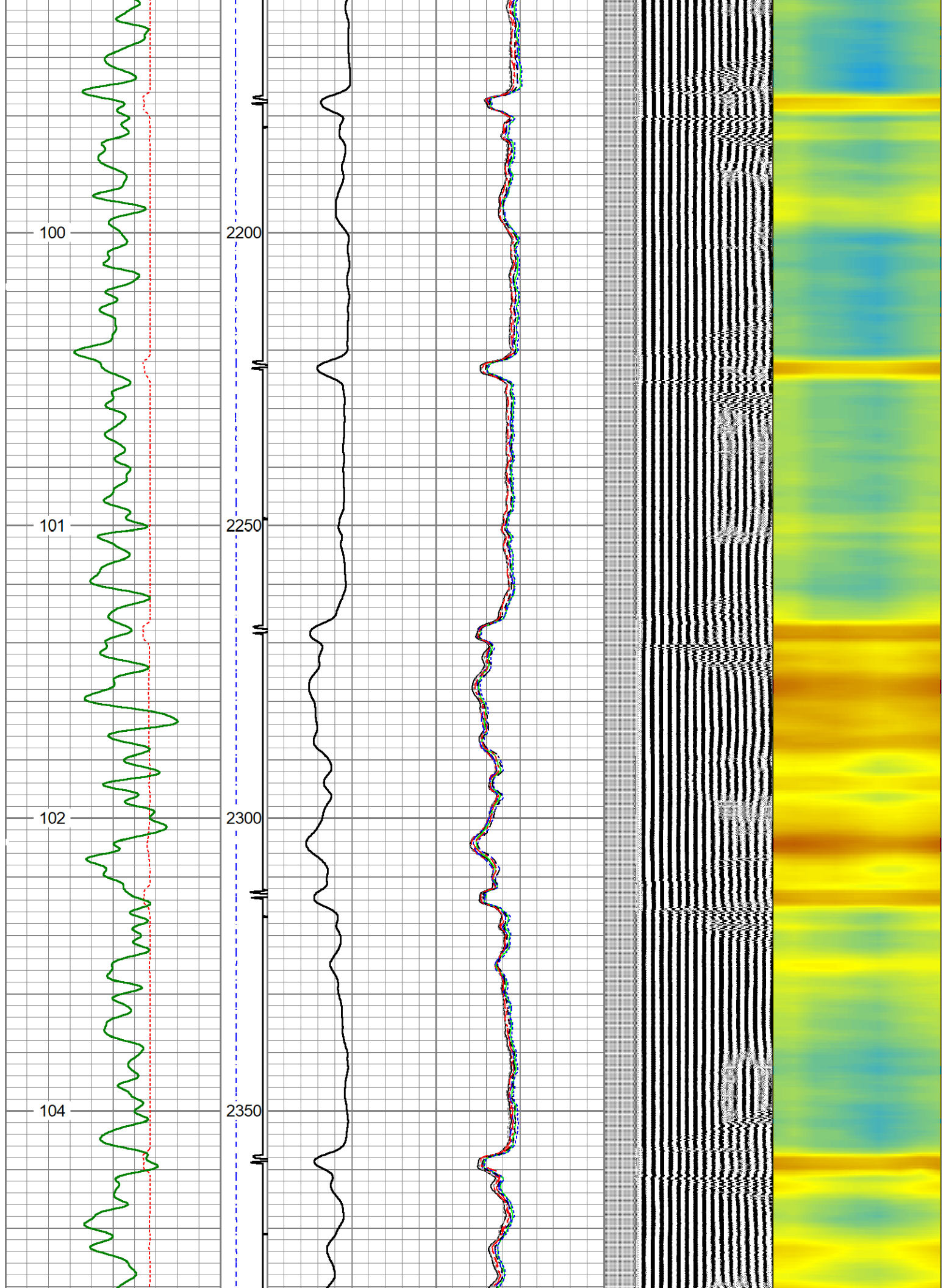


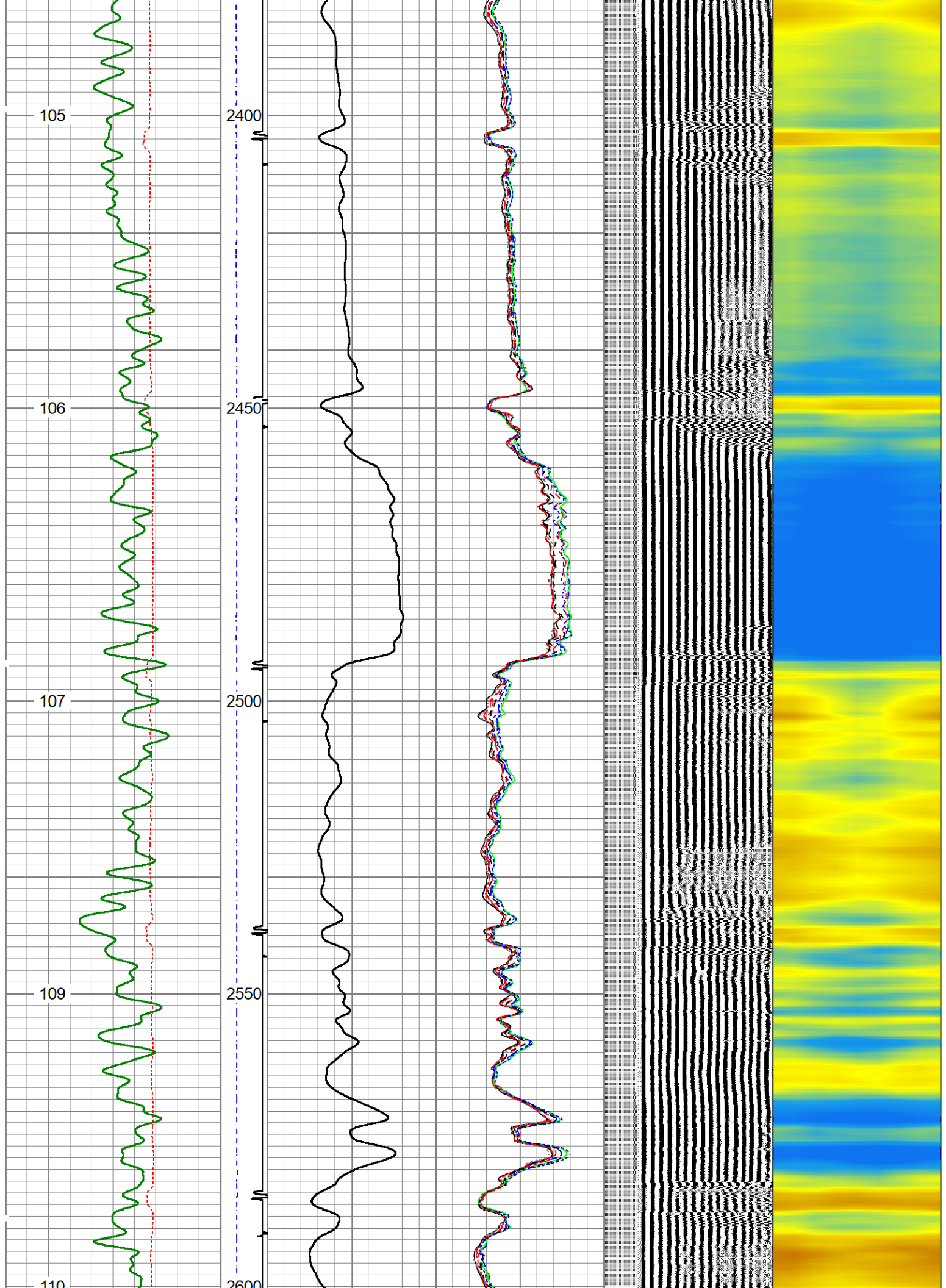


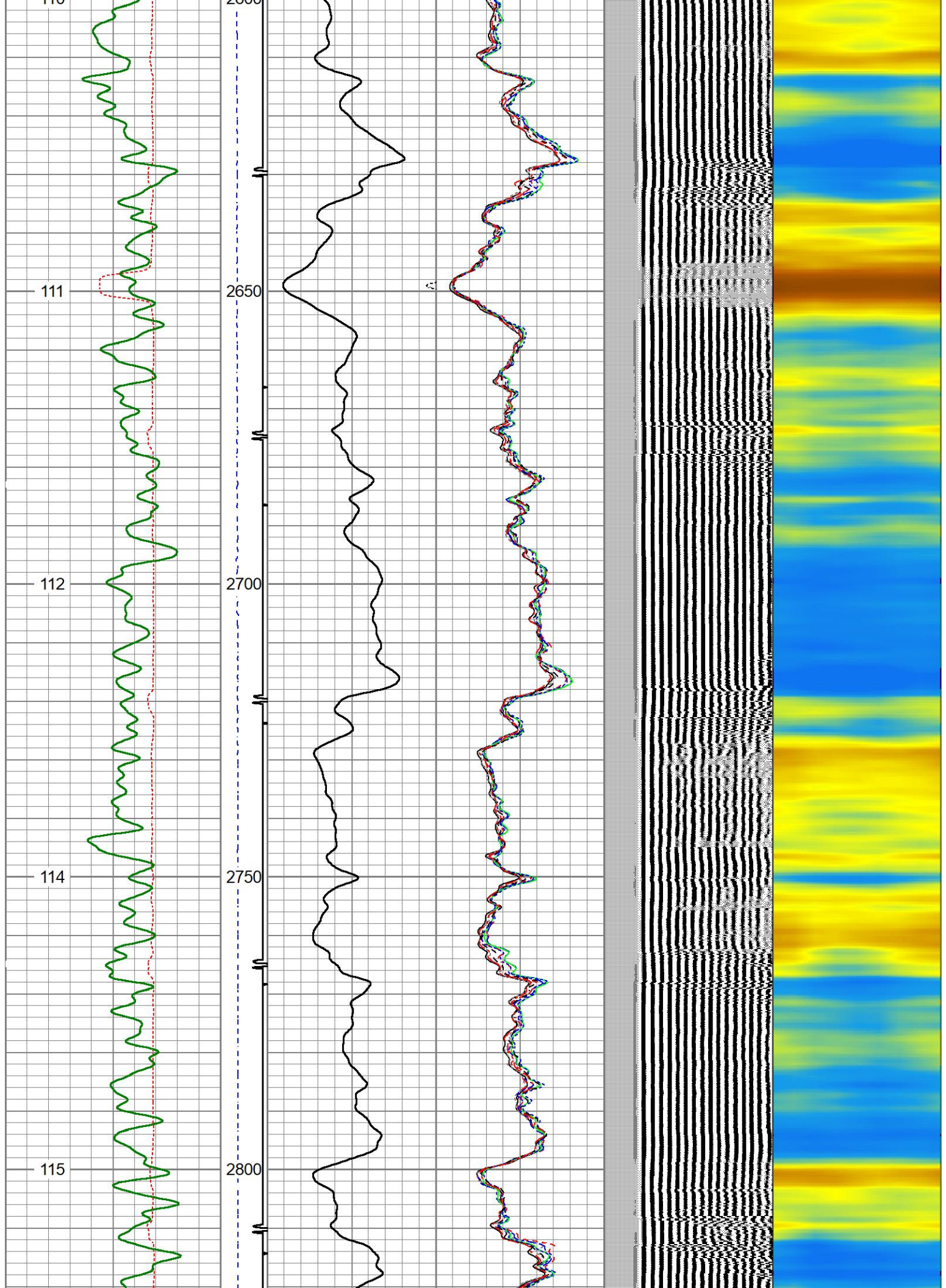


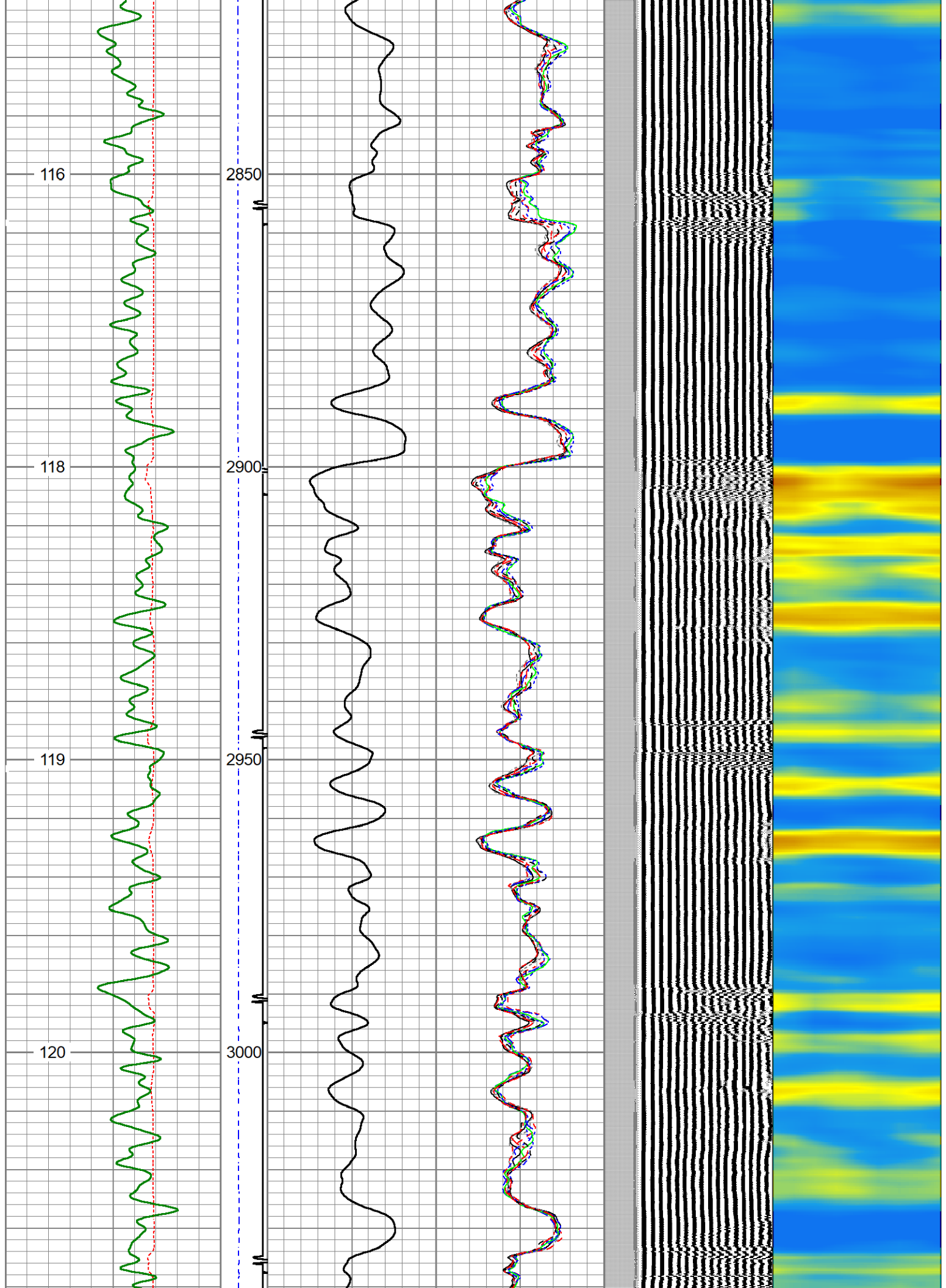


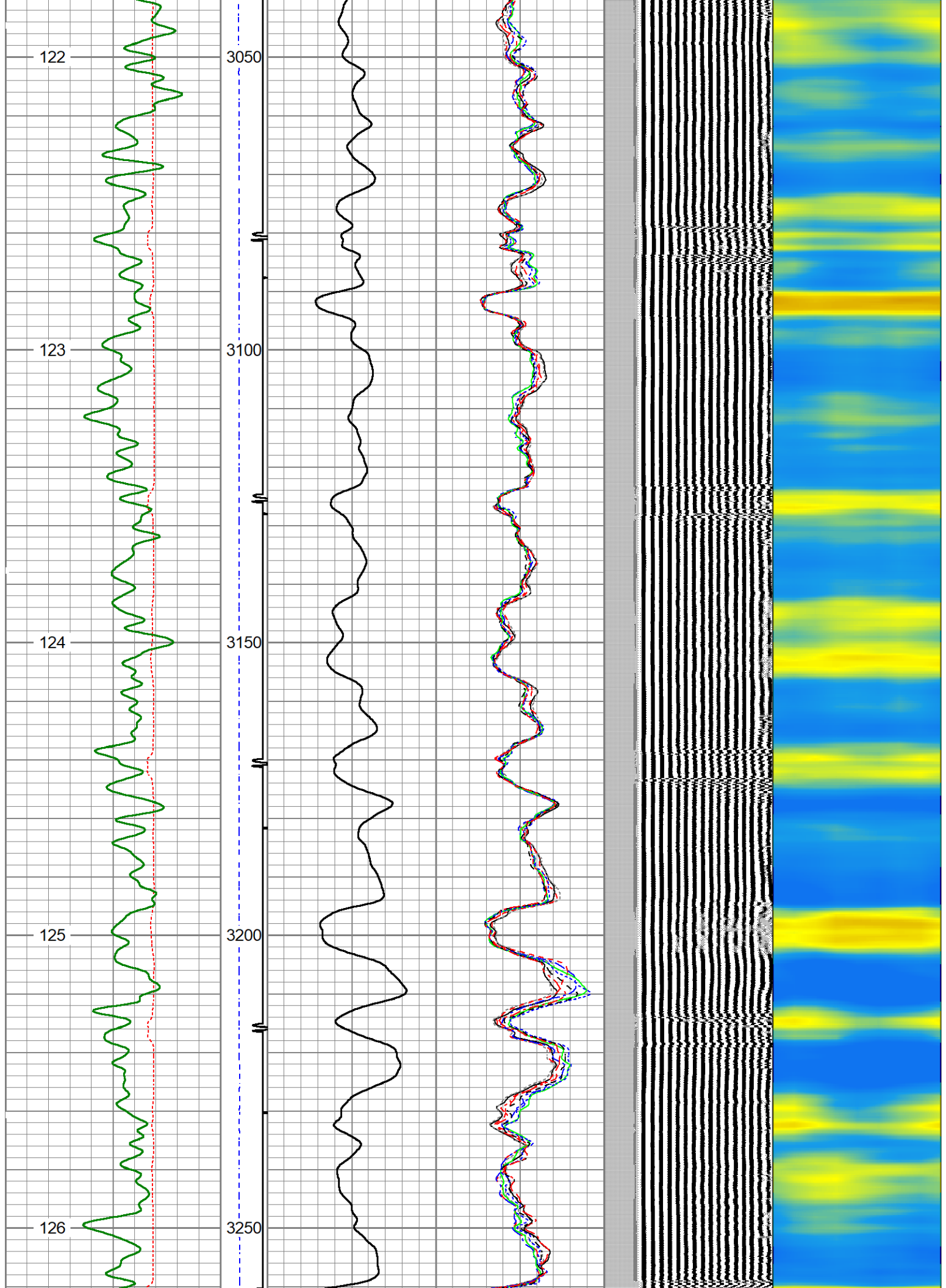


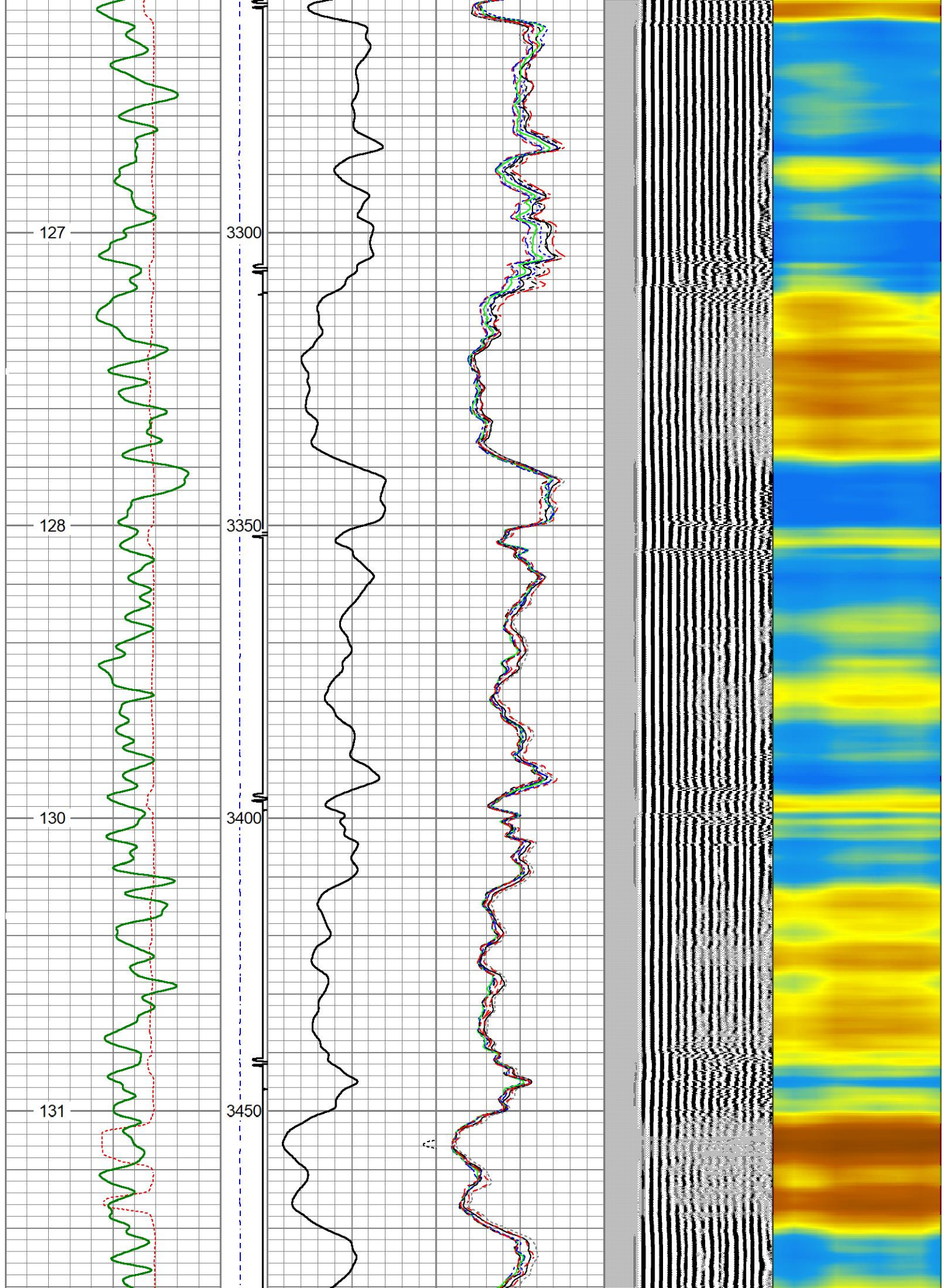


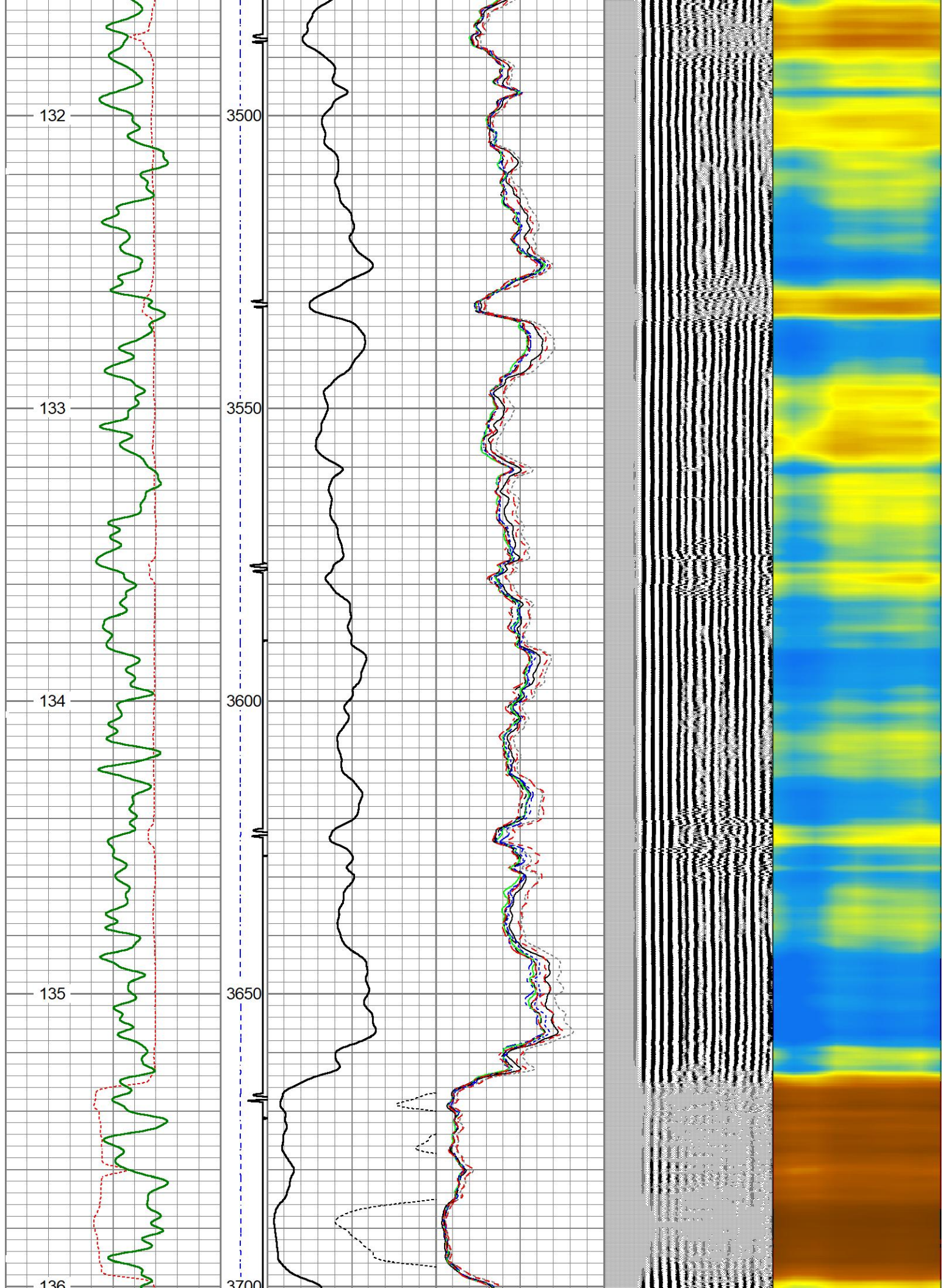


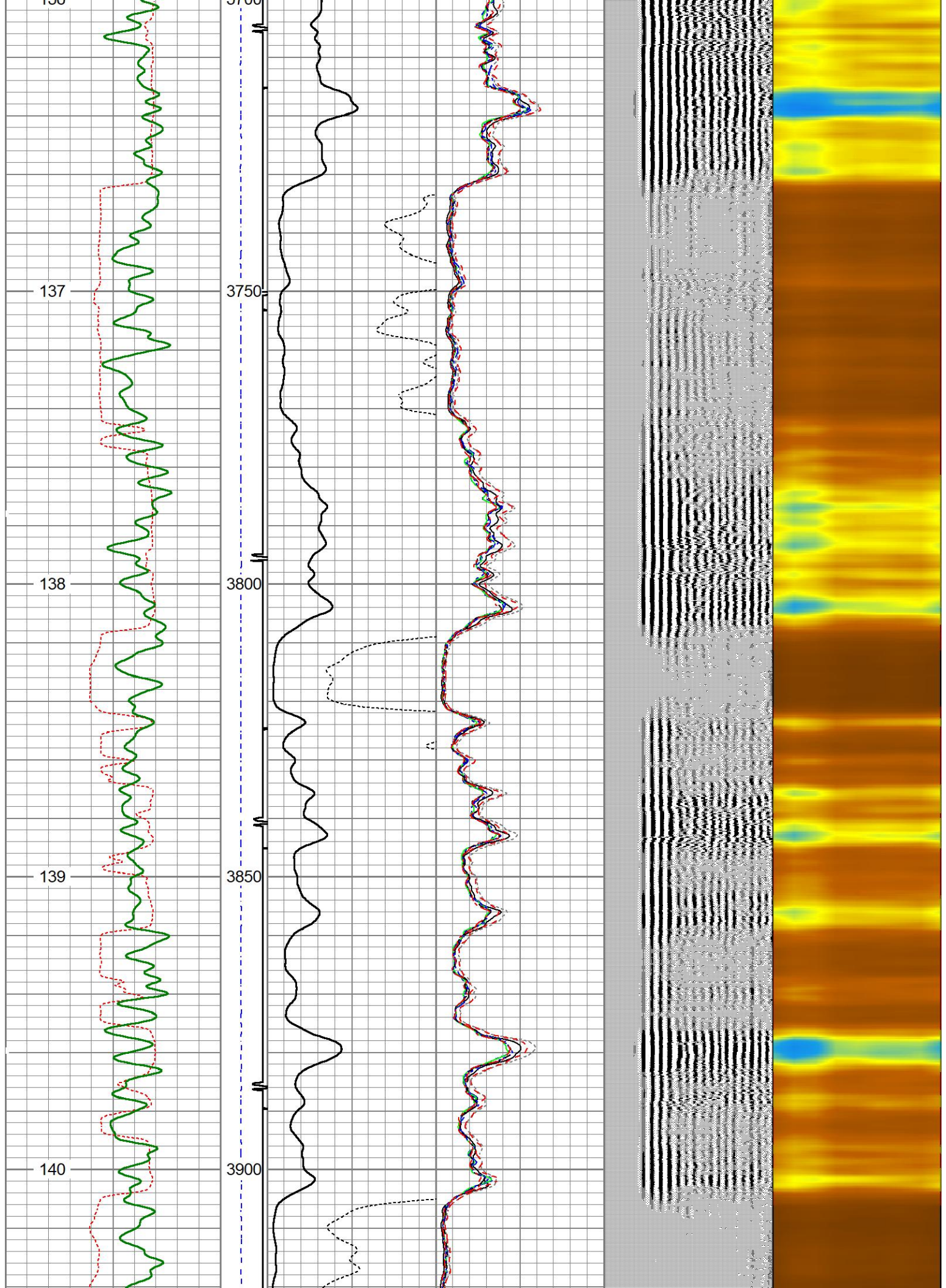


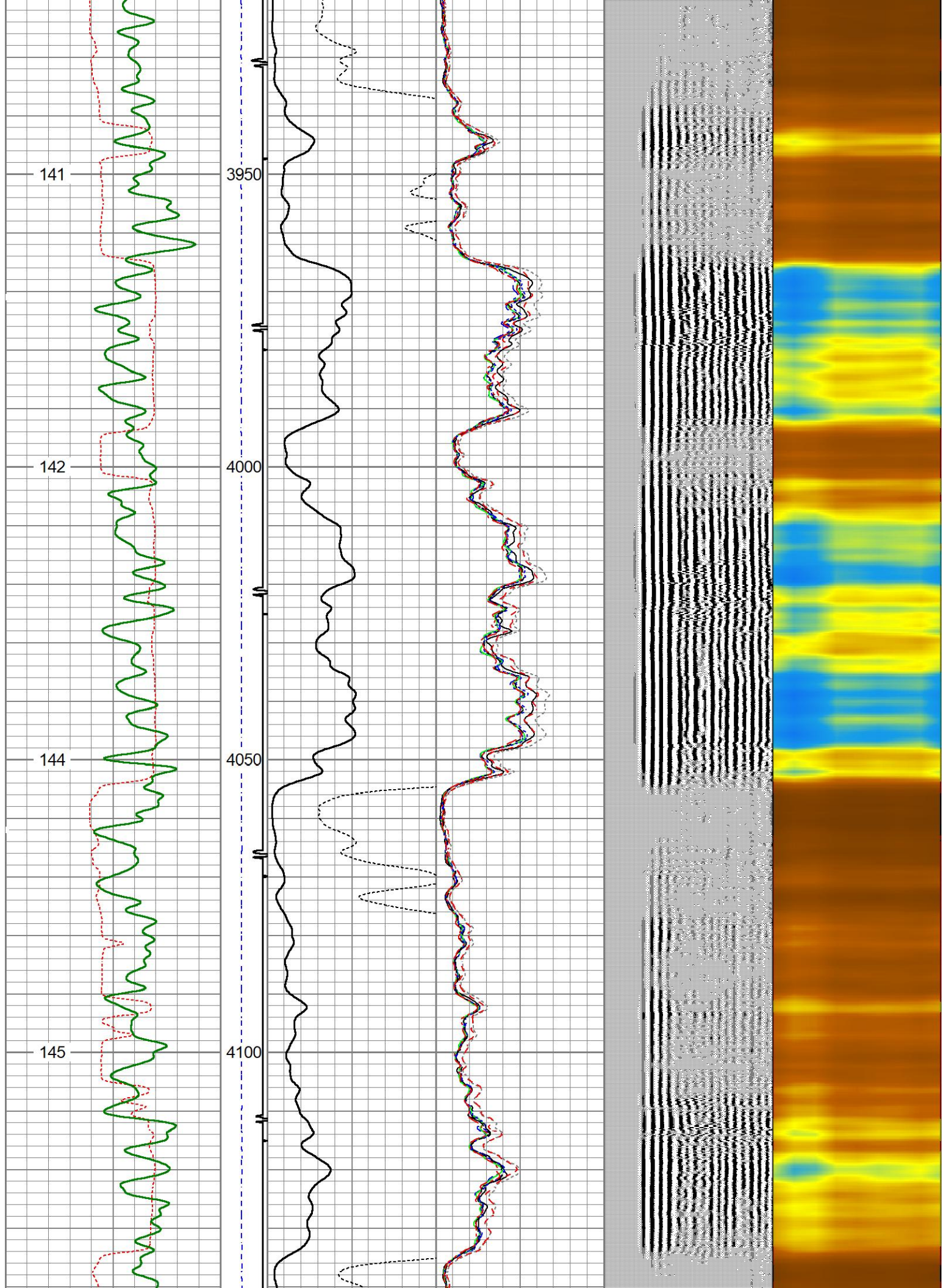


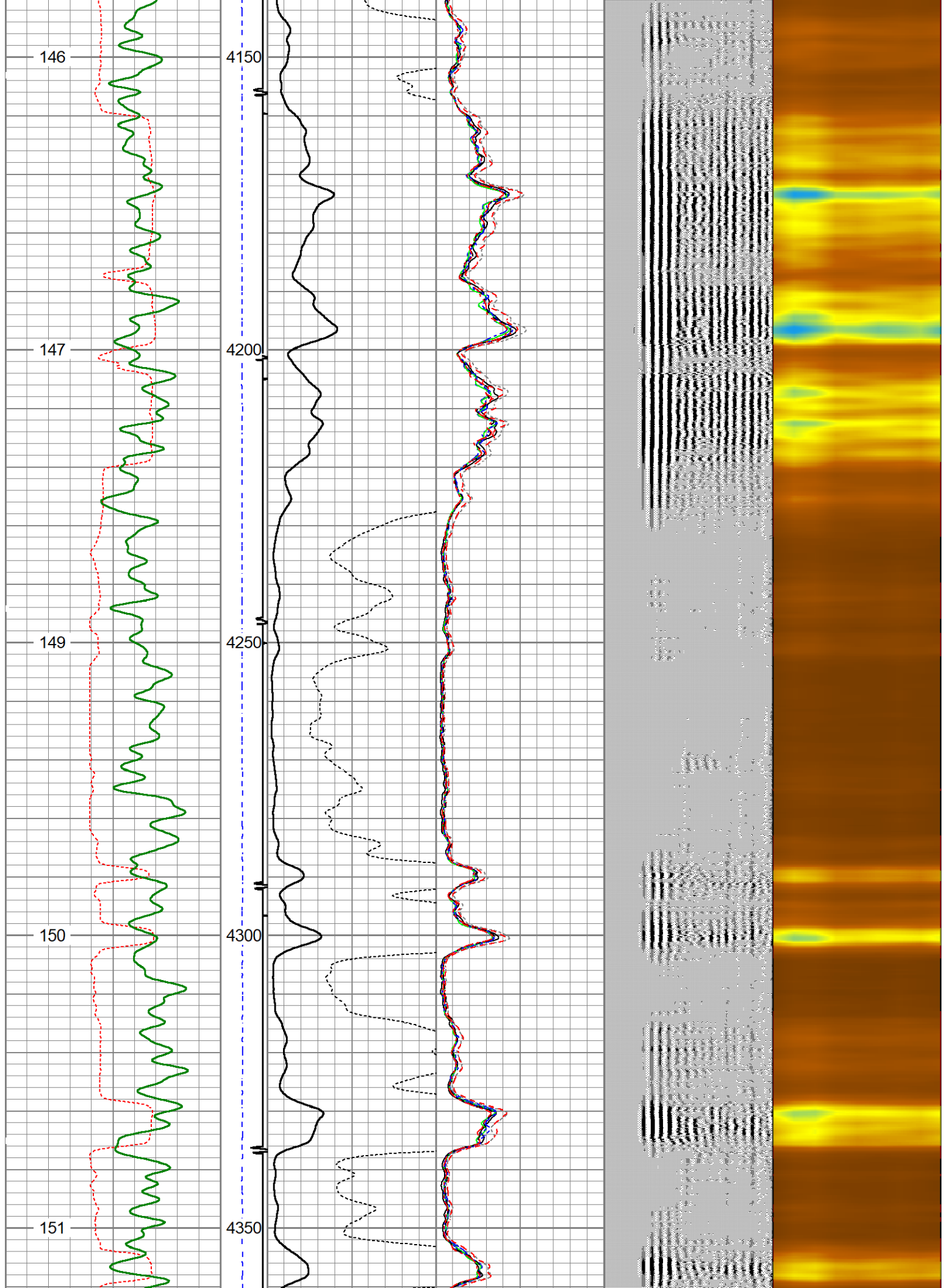


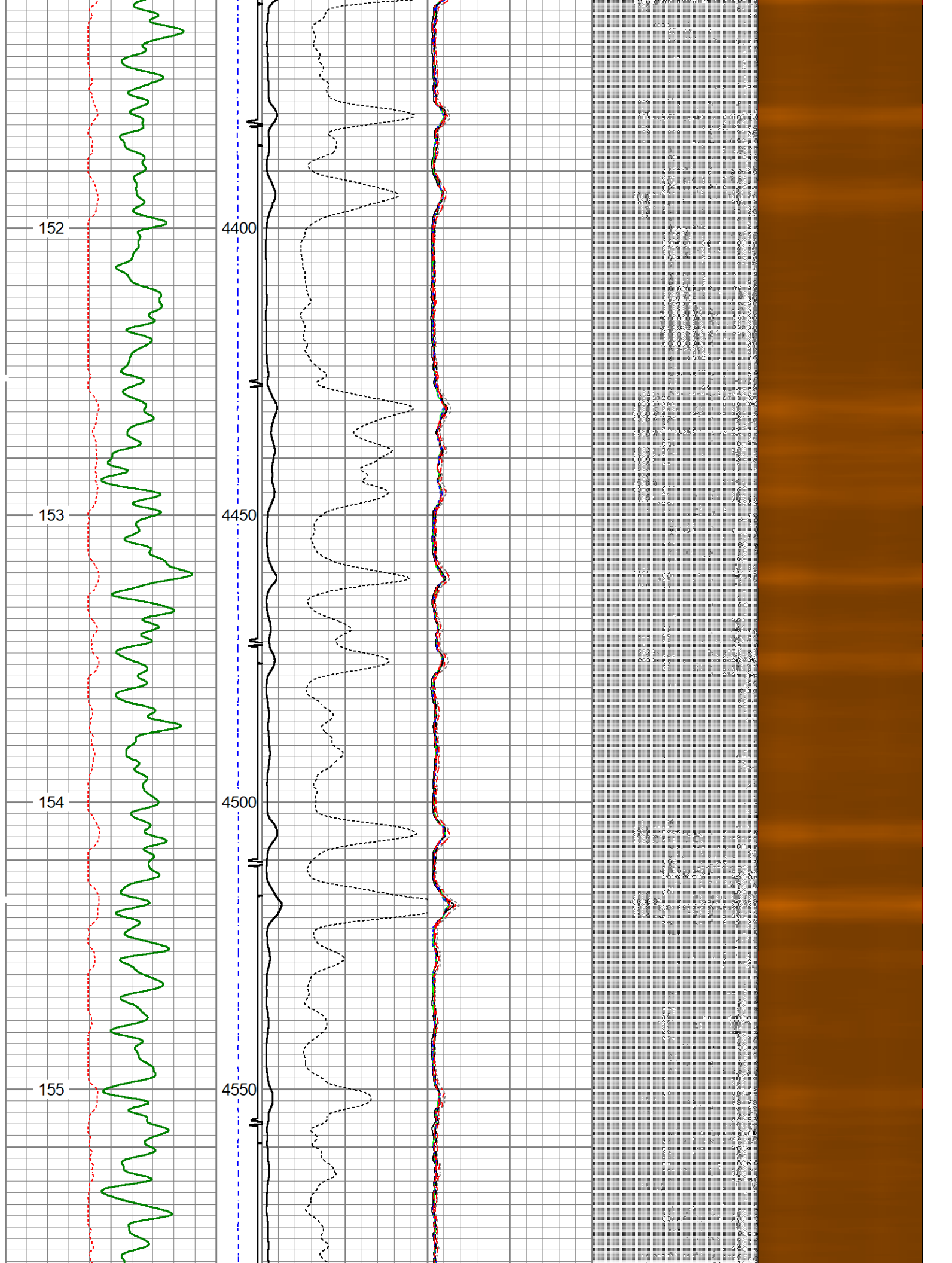


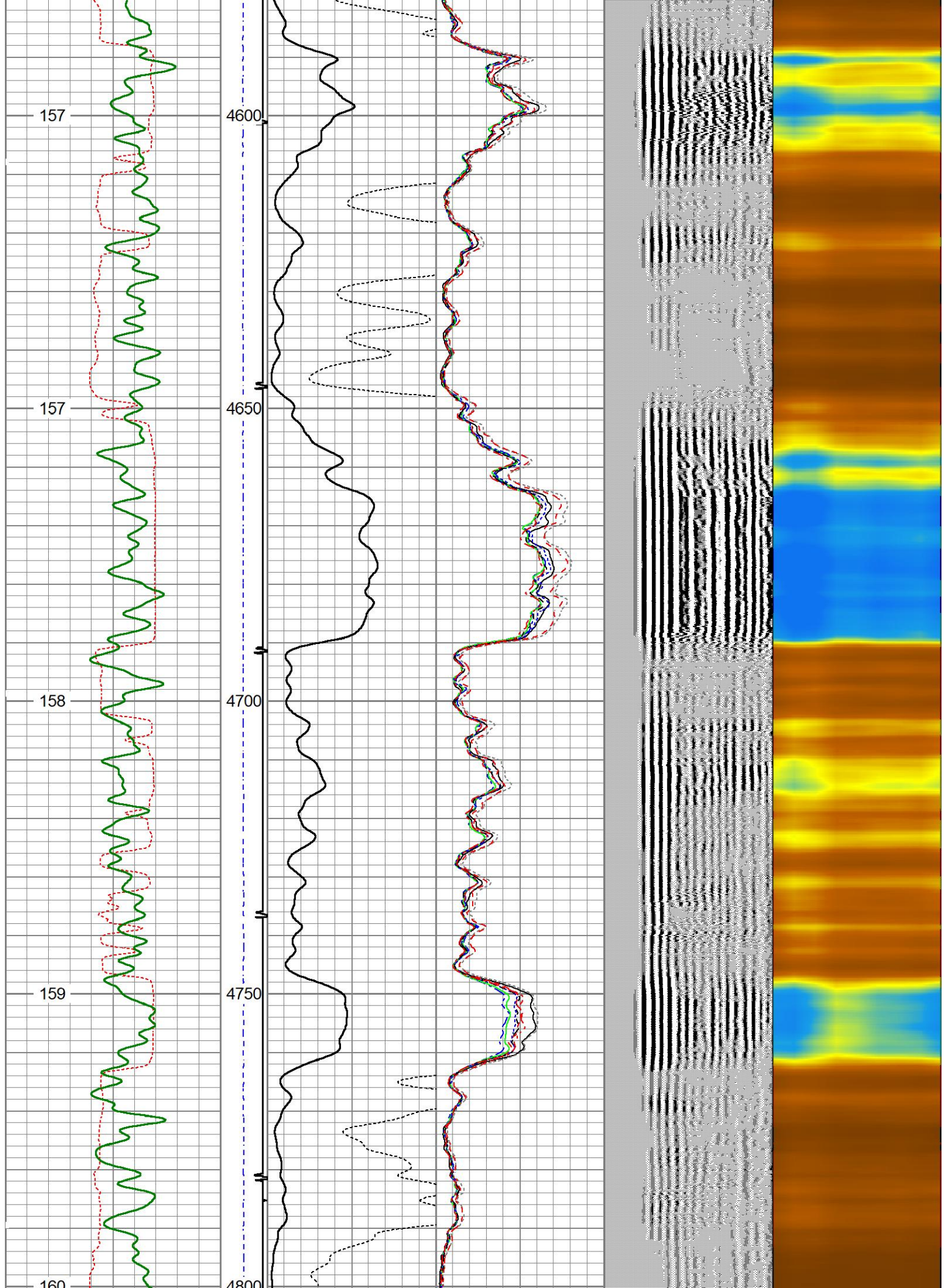


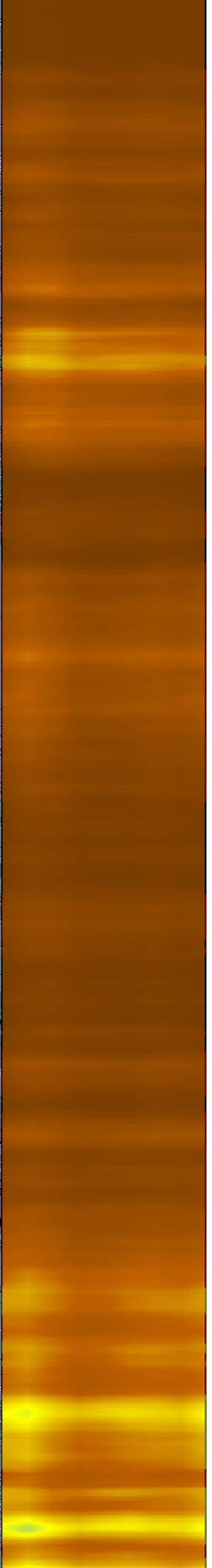
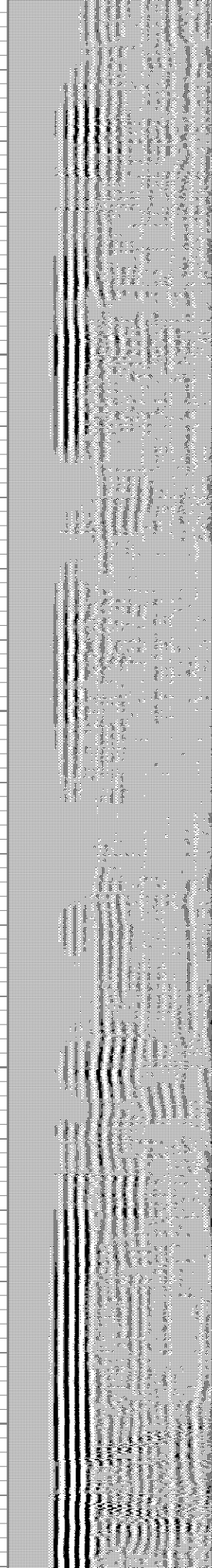
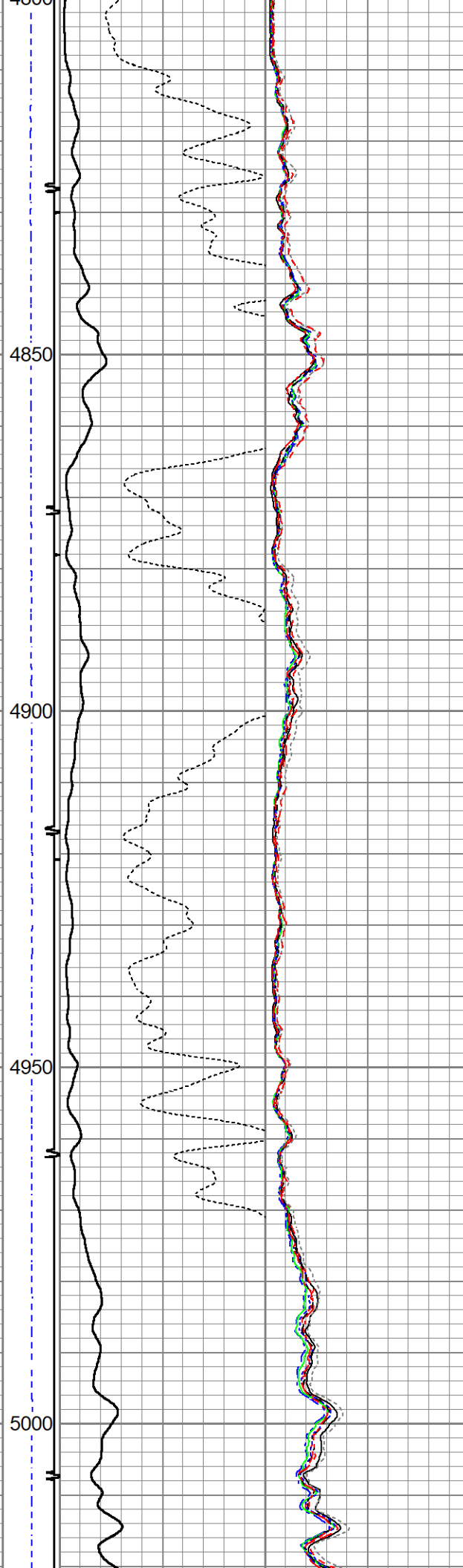
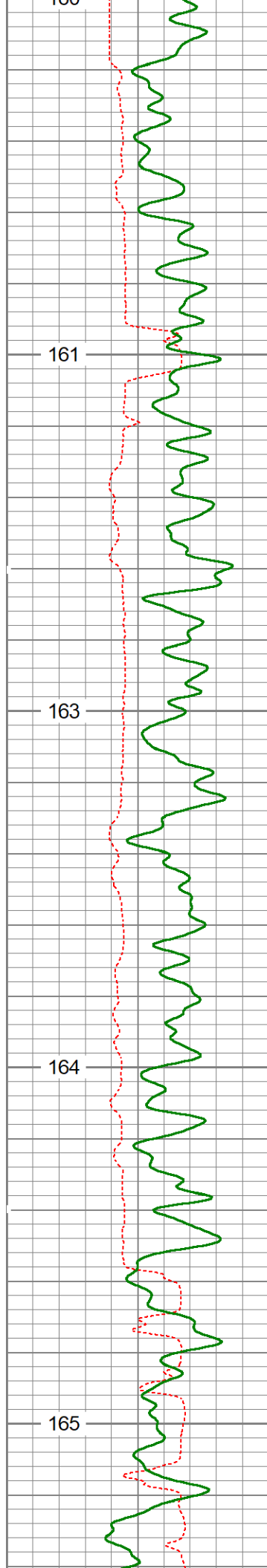


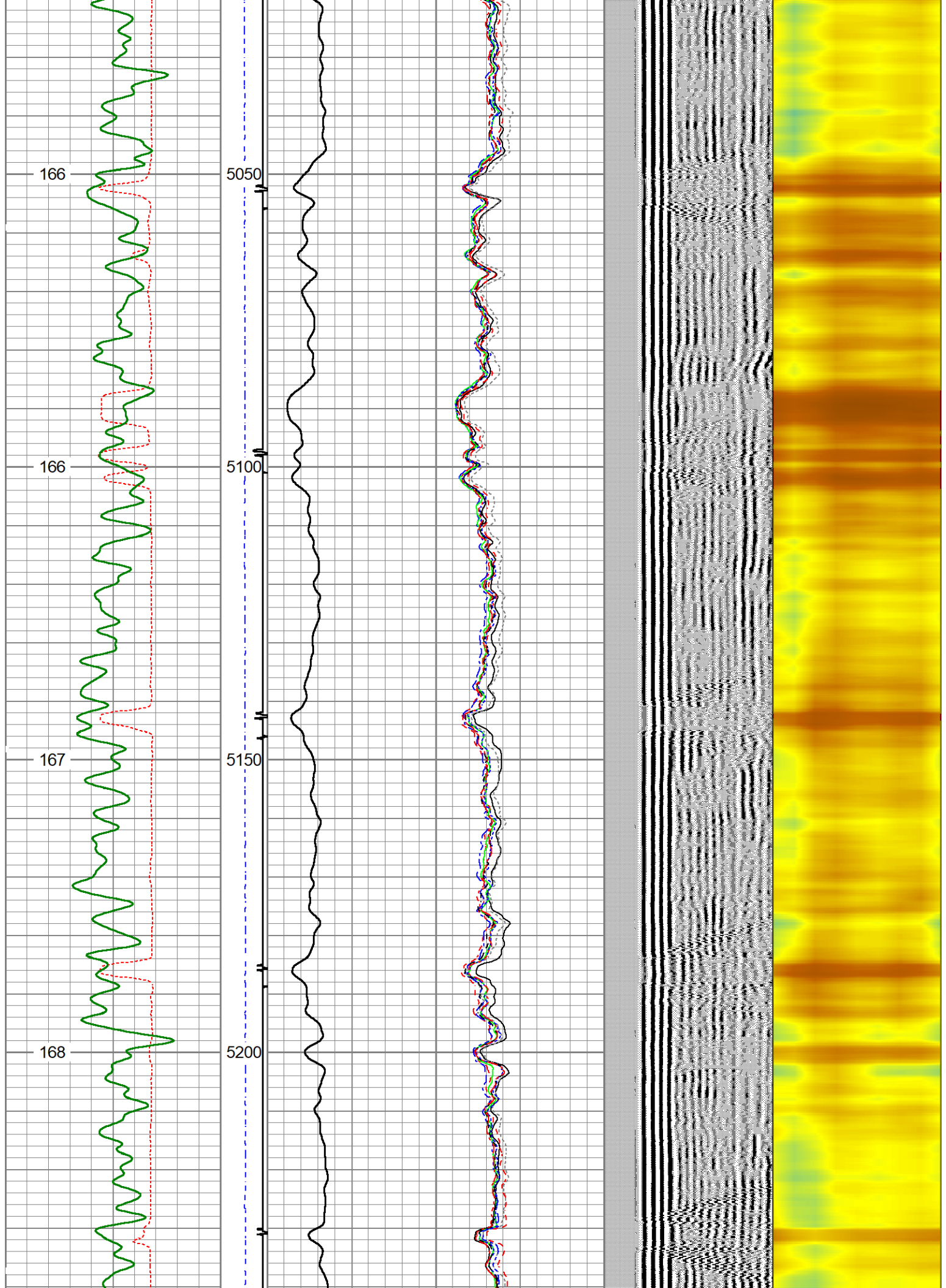


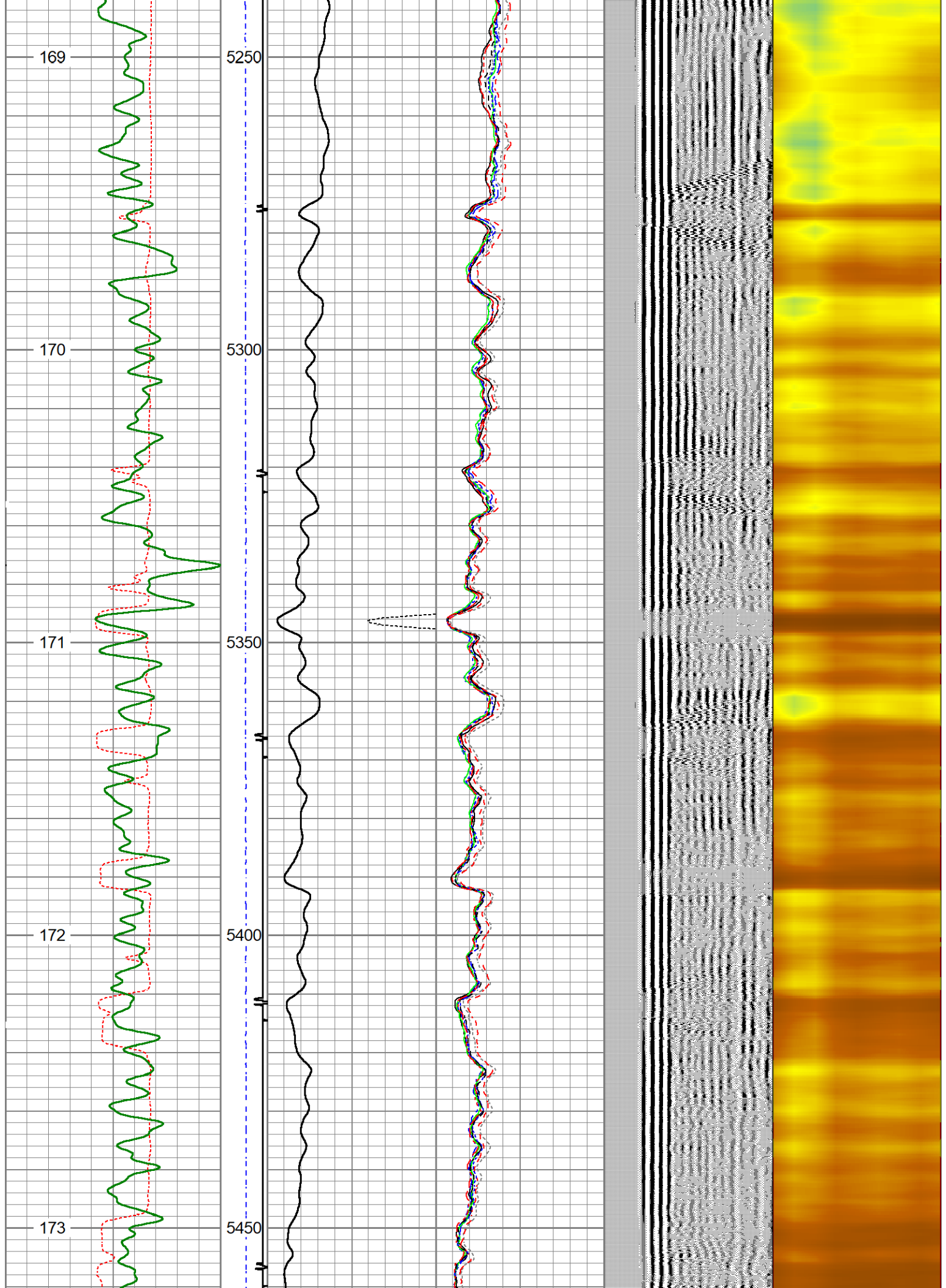


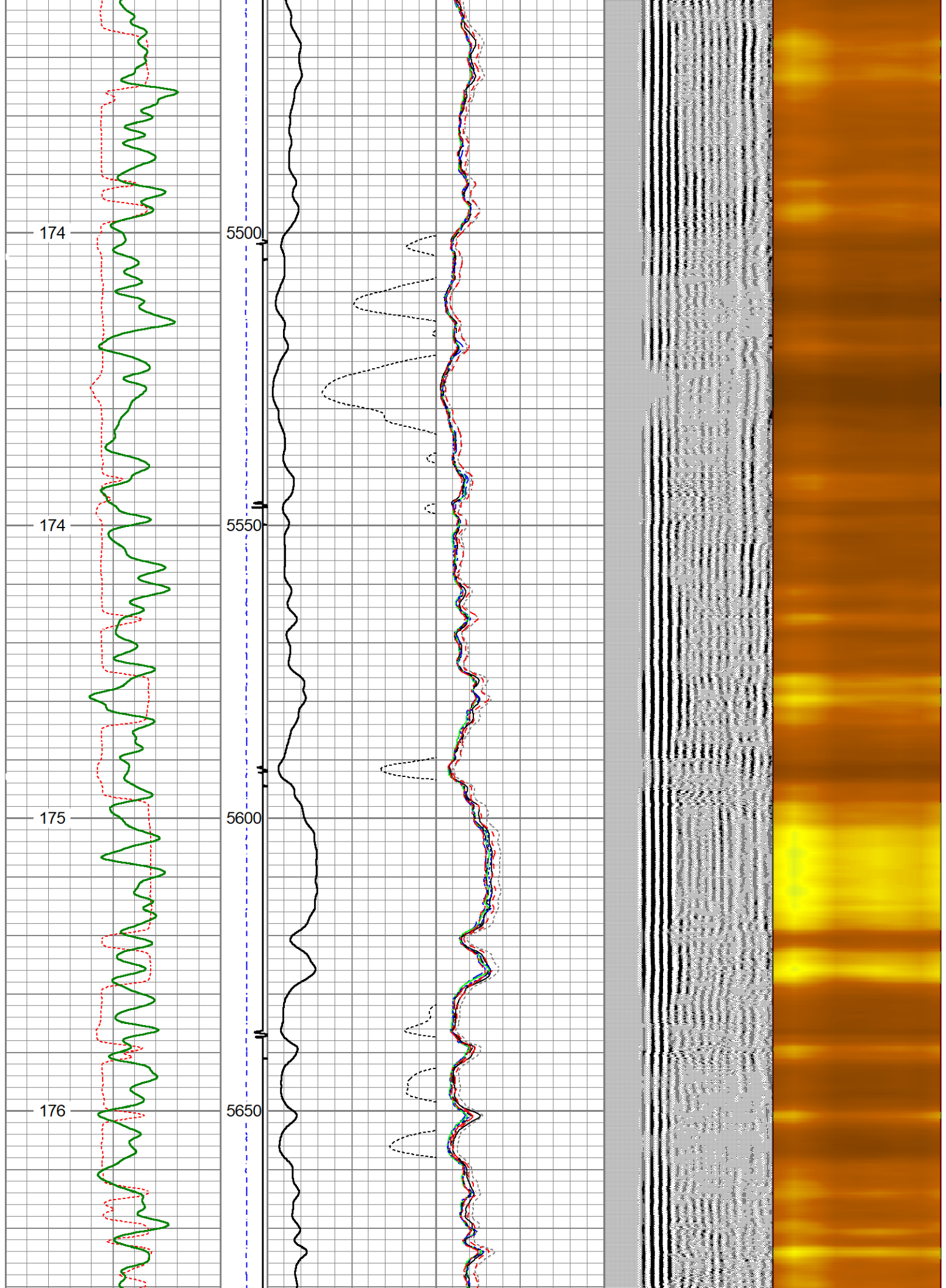


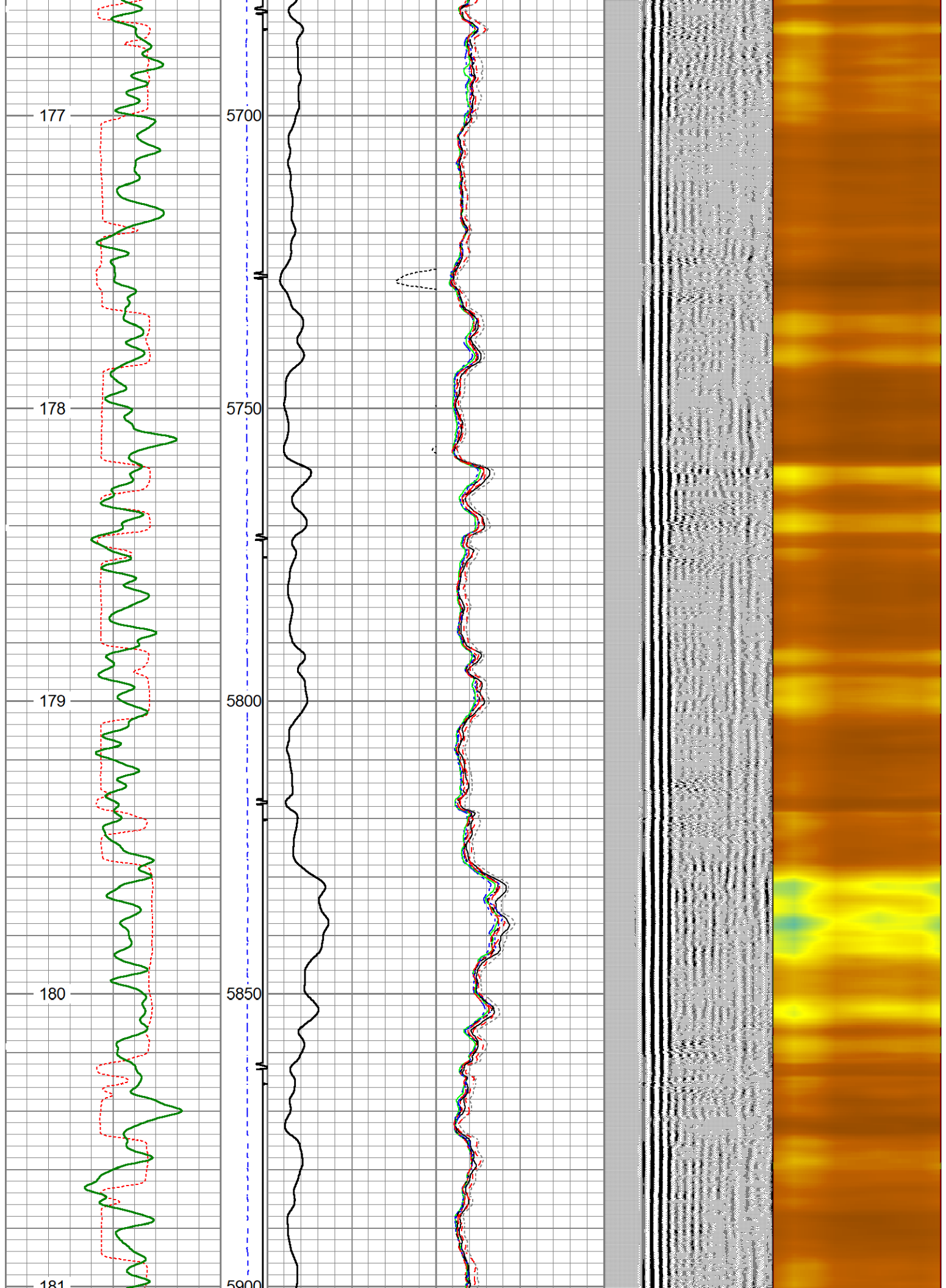


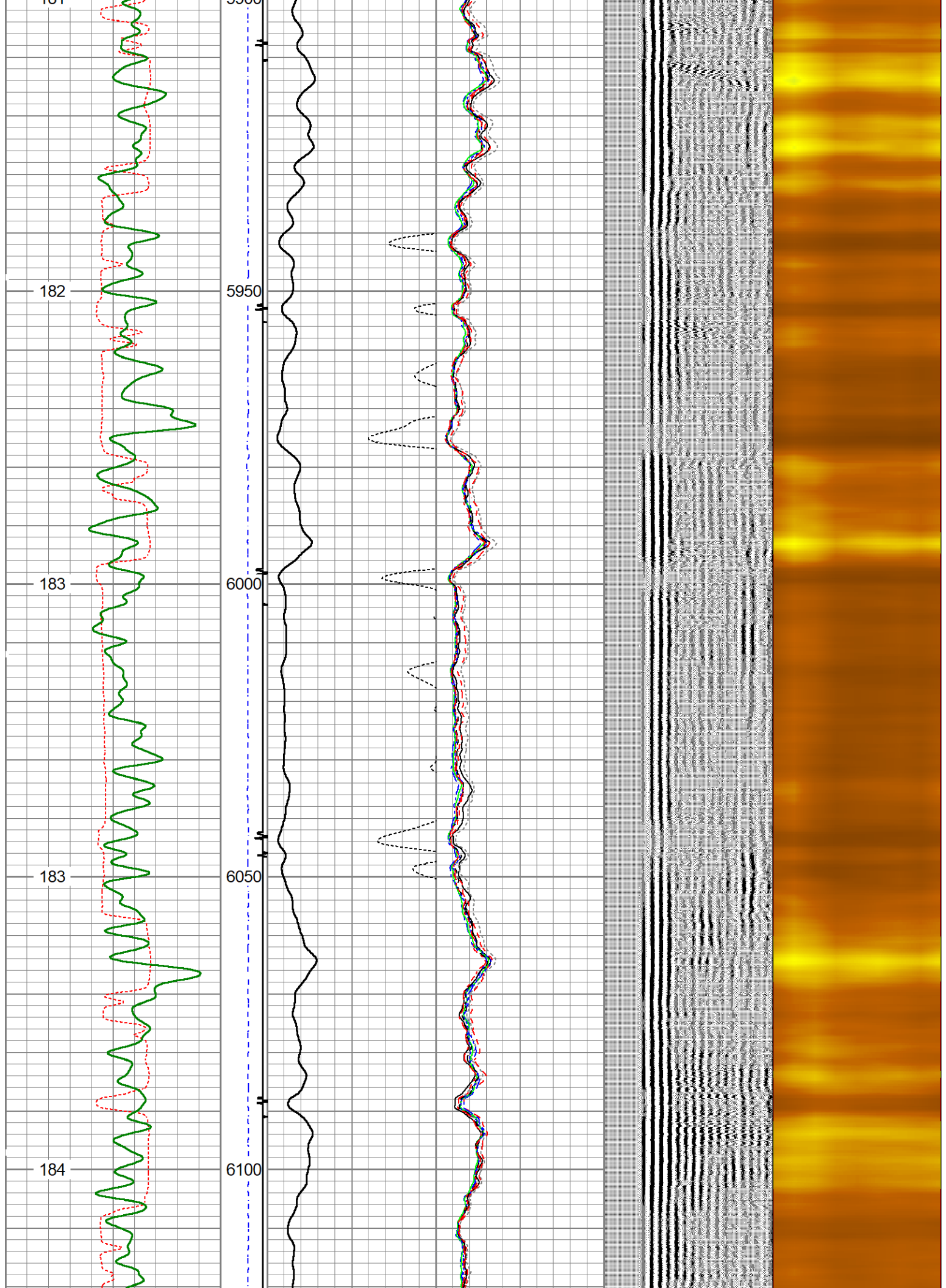


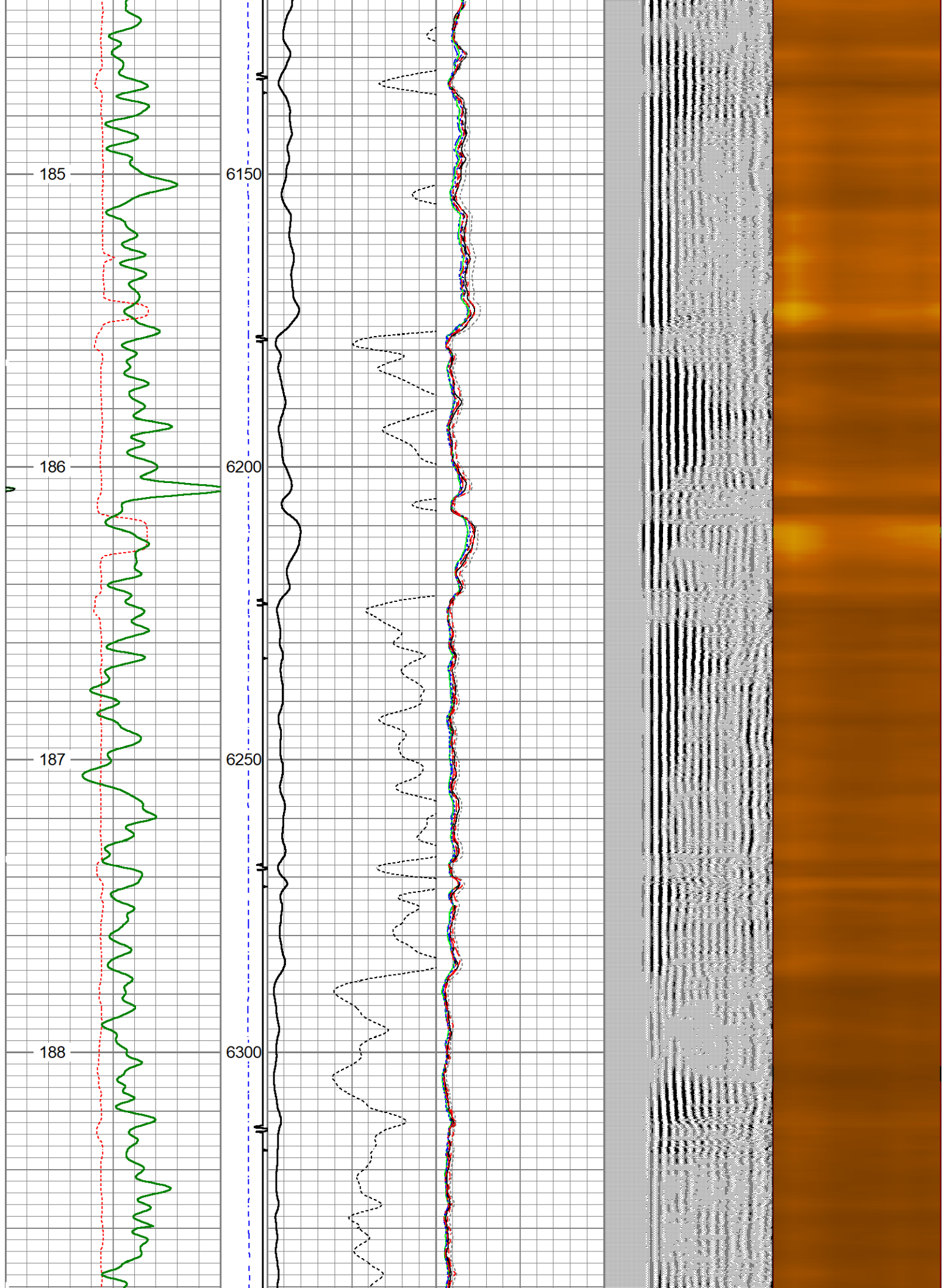


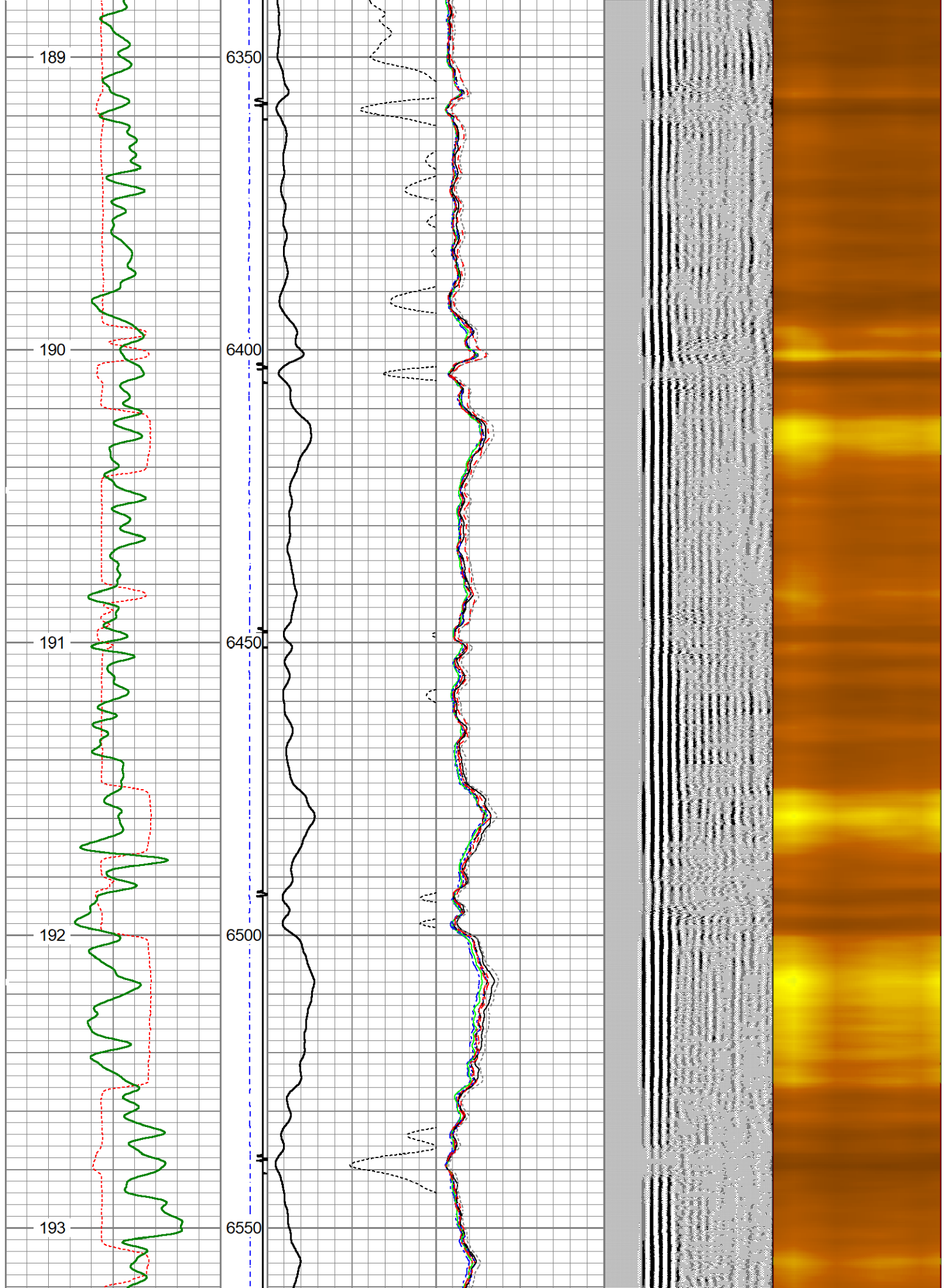


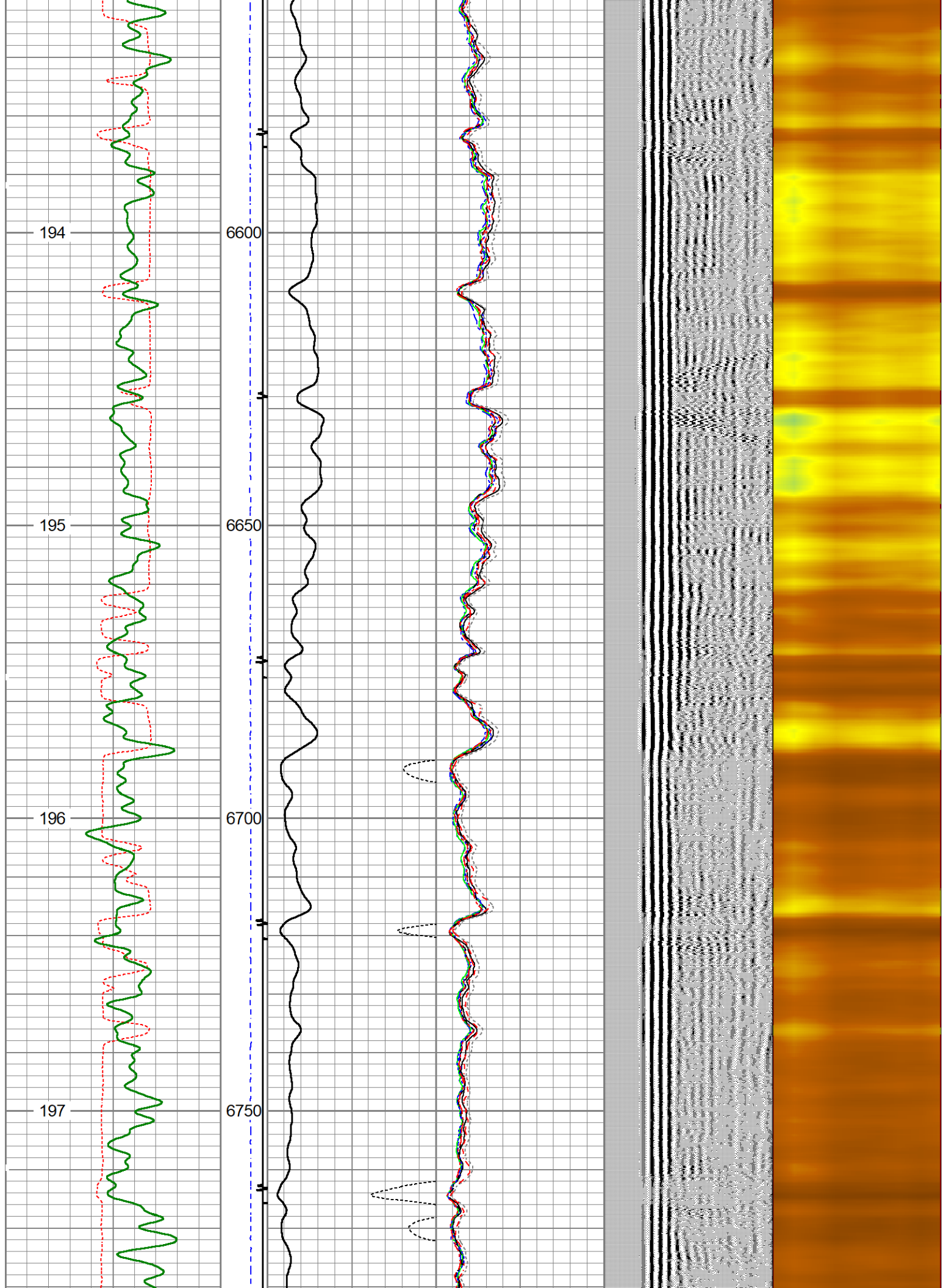


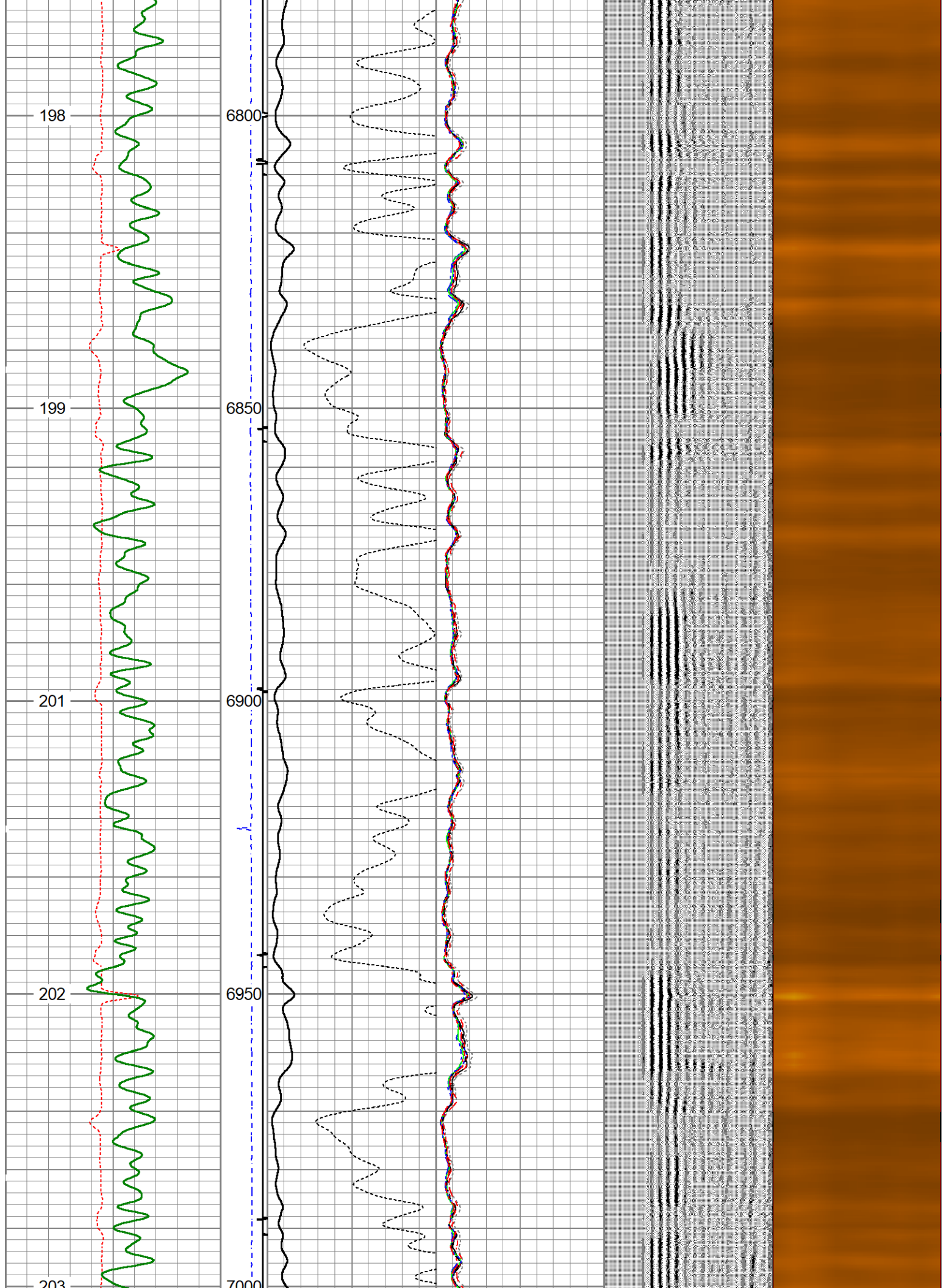


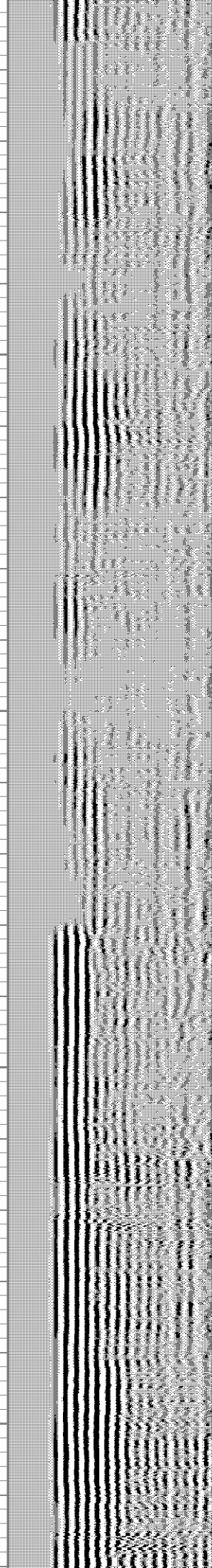
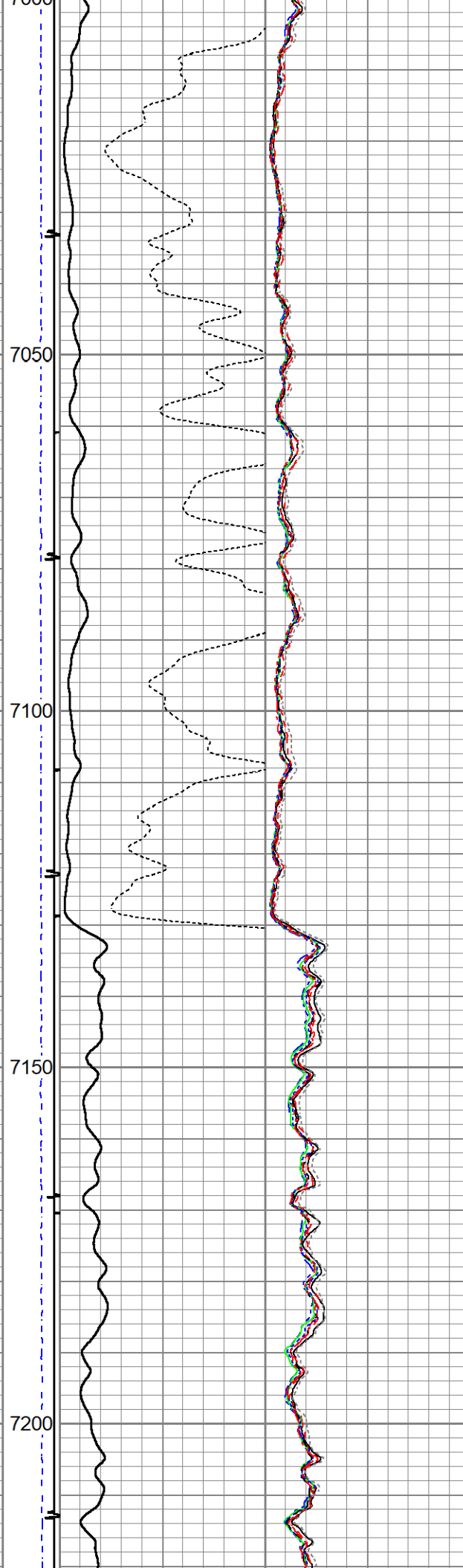
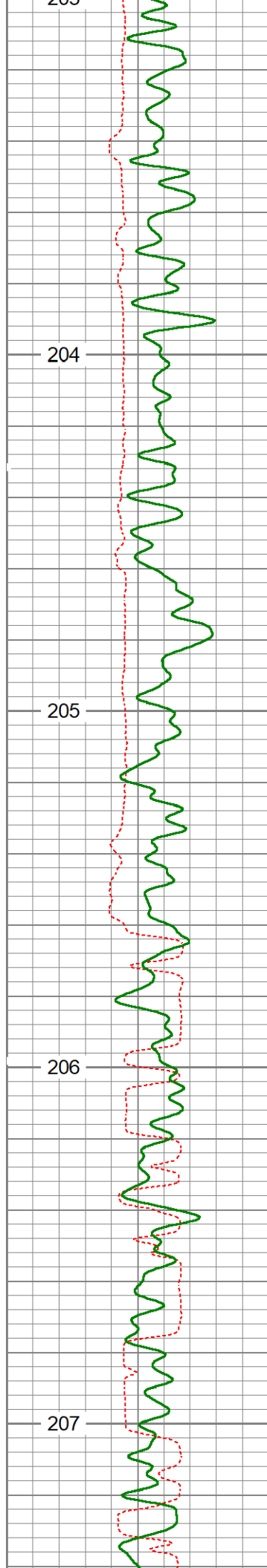


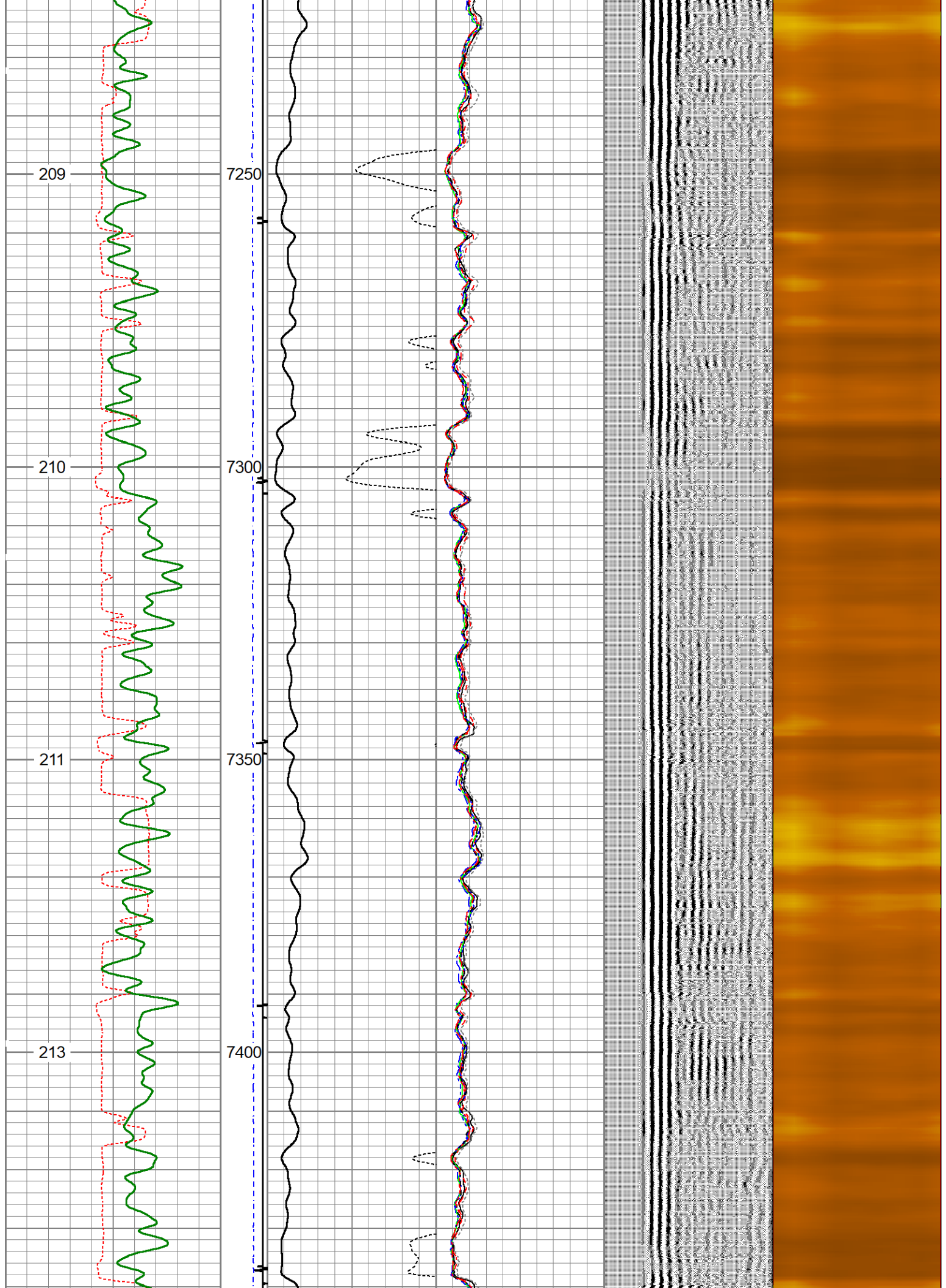


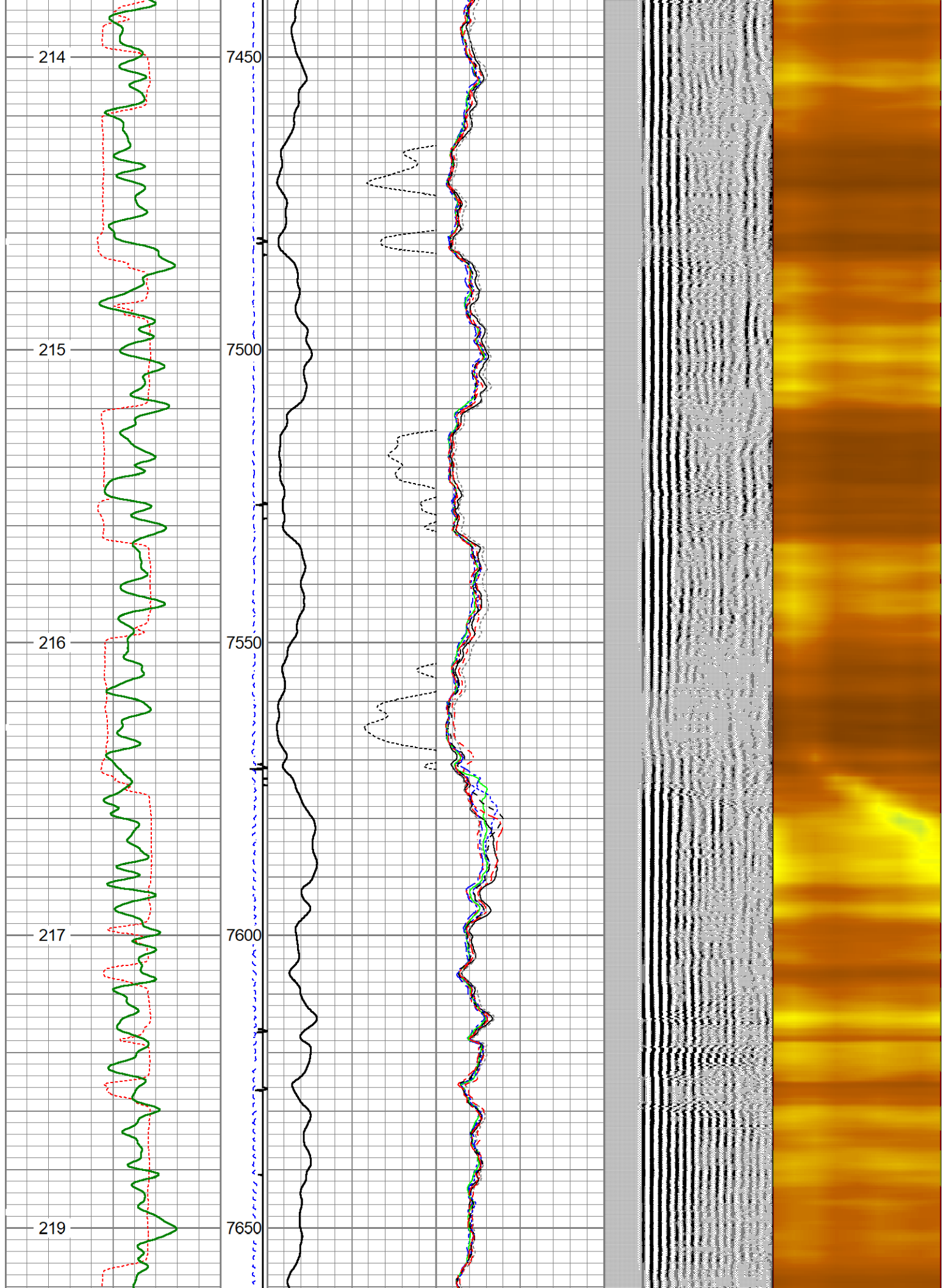


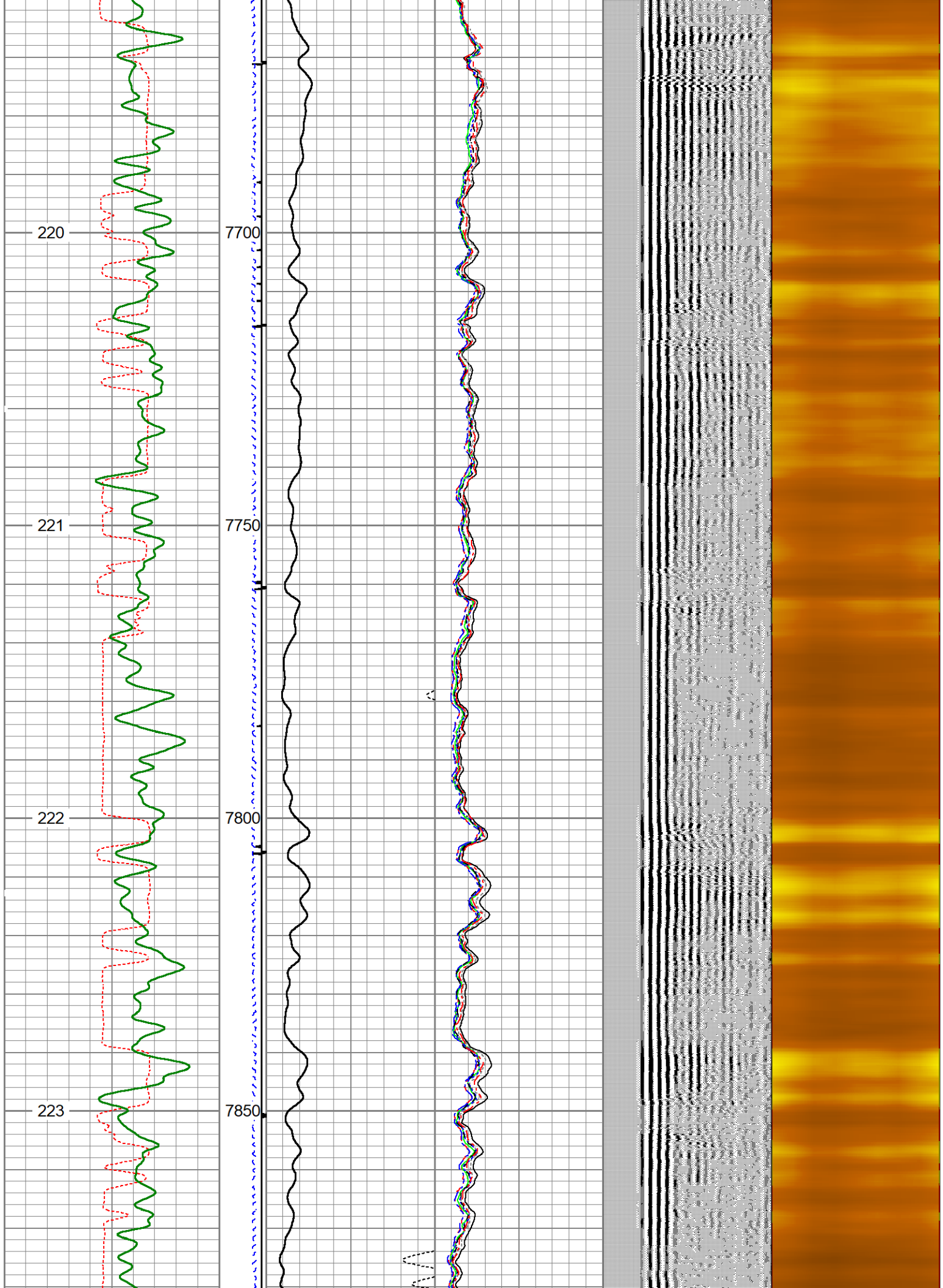


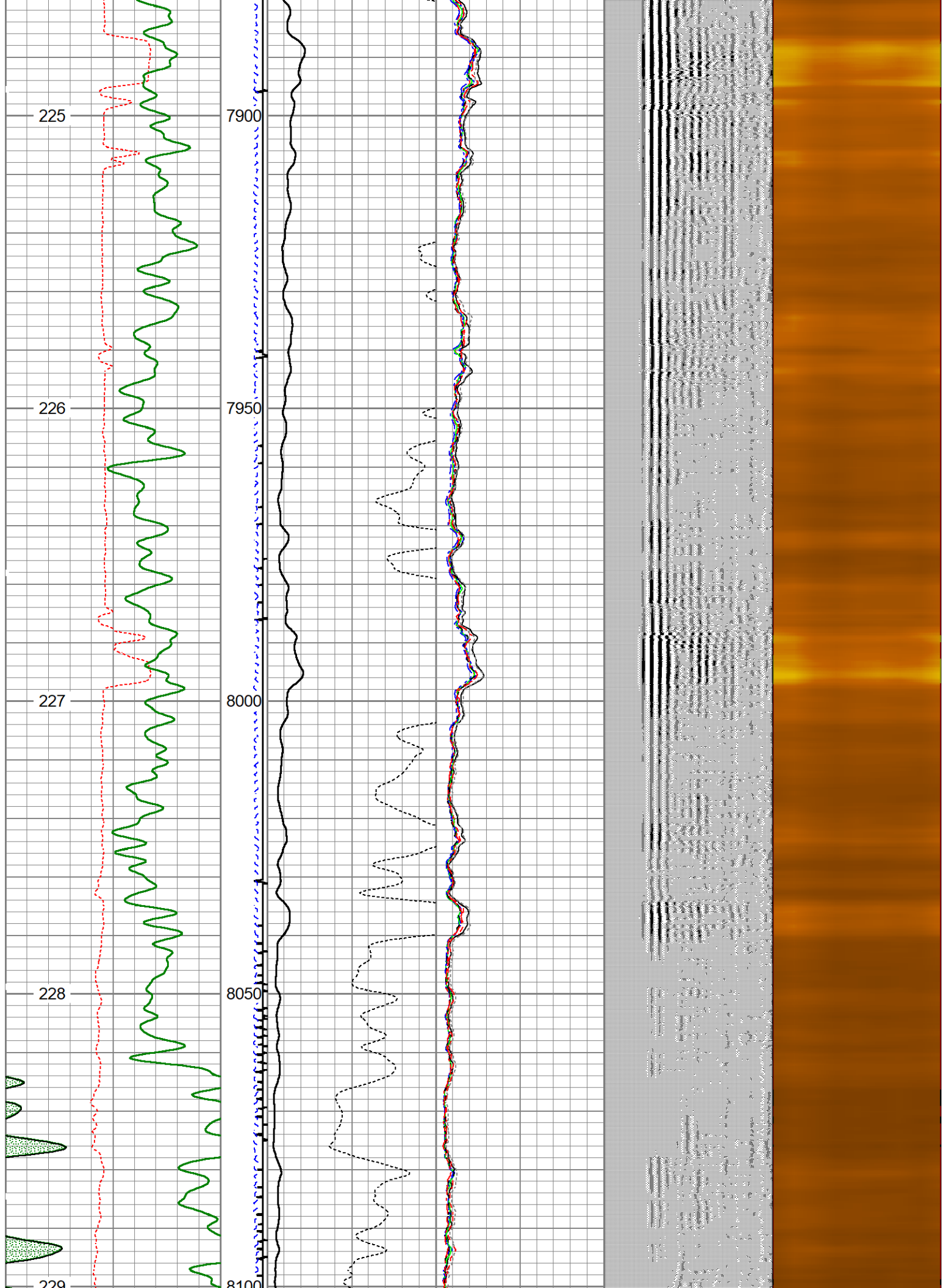


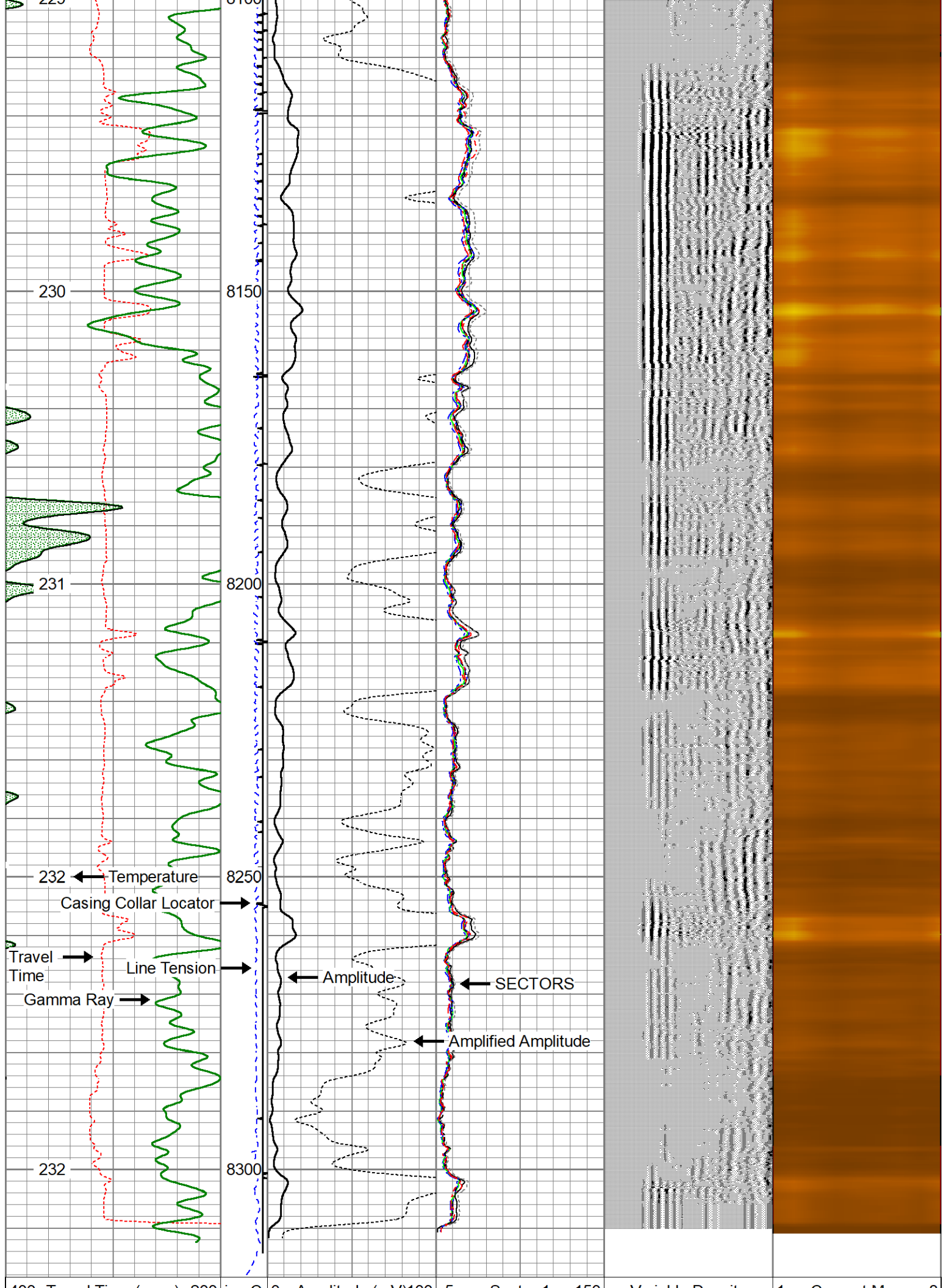


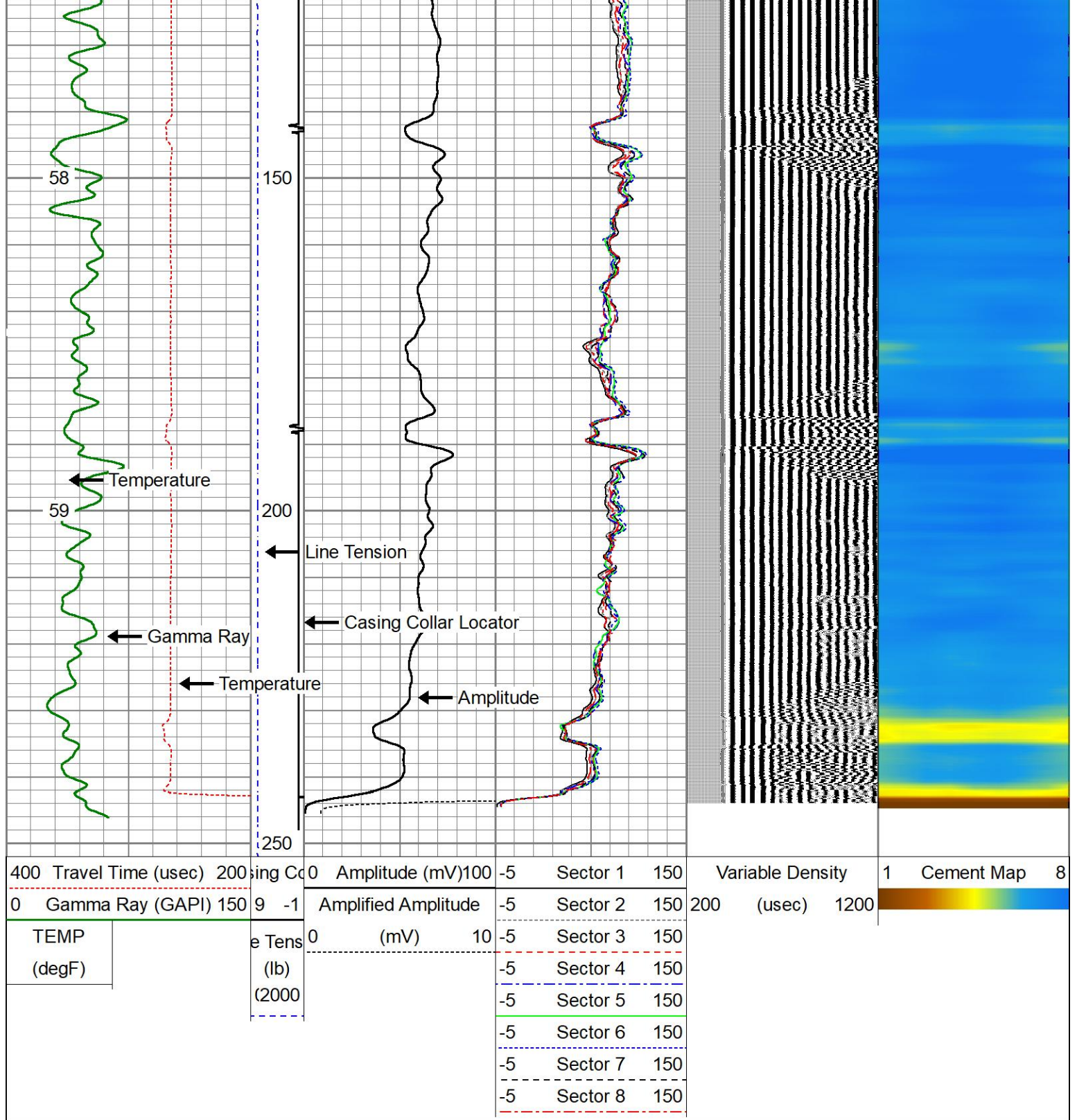












Calibration Report

Database File gw_rio_lc12_369hnx_cbl_sep_11_19.db
 Dataset Pathname pass12.1
 Dataset Creation Wed Sep 11 11:19:48 2019

Gamma Ray Calibration Report

Serial Number: FW1304-44
 Tool Model: Probe275
 Performed: (Not Performed)

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:	121043
Tool Model:	Probe 2.75 Radii W/Temp
Calibration Casing Diameter:	5.500 in
Calibration Depth:	2482.367 ft

Master Calibration, performed Wed Sep 11 07:24:14 2019:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.248	1.000	71.921	285.974	0.874
CAL	0.000	0.369				
5'	-0.001	0.015	1.000	71.921	4578.289	3.515
SUM						
S1	0.010	0.262	0.000	100.000	395.462	-3.780
S2	0.002	0.282	0.000	100.000	357.324	-0.602
S3	0.001	0.277	0.000	100.000	361.885	-0.389
S4	0.002	0.263	0.000	100.000	382.822	-0.664
S5	0.001	0.242	0.000	100.000	415.711	-0.553
S6	0.002	0.228	0.000	100.000	441.451	-0.760
S7	0.001	0.230	0.000	100.000	437.070	-0.507
S8	0.001	0.242	0.000	100.000	414.827	-0.415

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.369	1.000	0.000

Air Zero Calibration, performed Thu Sep 05 16:44:52 2019:

	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				
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: gw_rio_lc12_369hnx_cbl_sep_11_19.db: field/well/run1/pass12.1 Total length: 15.19 ft Total weight: 152.00 lb O.D.: 2.75 in					



Company Great Western Oil & Gas
 Well Rio LC 12 369HNX
 Field Wattenberg

