



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

Company	Noble Energy		Company	Noble Energy			
Well	SLW Ranch B12_79HN		Well	SLW Ranch B12_79HN			
Field	Wattenberg		Field	Wattenberg			
County	Weld		County	Weld			
State	Colorado		State	Colorado			
Location:			API # : 05-123-36505				
SEC 12 TWP 5N RGE 64W			Other Services				
150' FSL, 75' FEL			None				
Permanent Datum			Ground Level				
Log Measured From			Elevation				
30' KB			K.B. 4625'				
Drilling Measured From			D.F. 4624'				
			G.L. 4595'				
Date	6/4/13						
Run Number	One						
Depth Driller	11,733'						
Depth Logger	6801'						
Bottom Logged Interval	6797'						
Top Log Interval	0'						
Open Hole Size	8,750"						
Type Fluid	Fresh Water						
Density / Viscosity	8,33#						
Max. Recorded Temp.	220°						
Estimated Cement Top	1070'						
Time Well Ready	6:00						
Time Logger on Bottom	8:20						
Equipment Number	12033						
Location	Brighton						
Recorded By	B.Kalkwarf		M.Schneider				
Witnessed By	B.Mansfield						
Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To
One	26"	30'	130'				
Two	13,750"	130'	645'				
Three	8,750"	645'	7065'				
Four	6,125"	7065'	11,733'				
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	16"		42.09#		30'		130'
Prot. String	9.625"		36#		30'		635.2'
Production String	7"		26#		30'		7055.7'
Liner	4.5"		11.6#		6914.9'		11,718'
					Marker Joint		5603' - 5617'

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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 30' KB.

Main Pass and Repeat Pass logged with zero pressure on surface

Estimated top of cement 1070'.

Marker Joint (5603' - 5617')

Unable to fall below liner top.

Thank you for using Allied Wireline



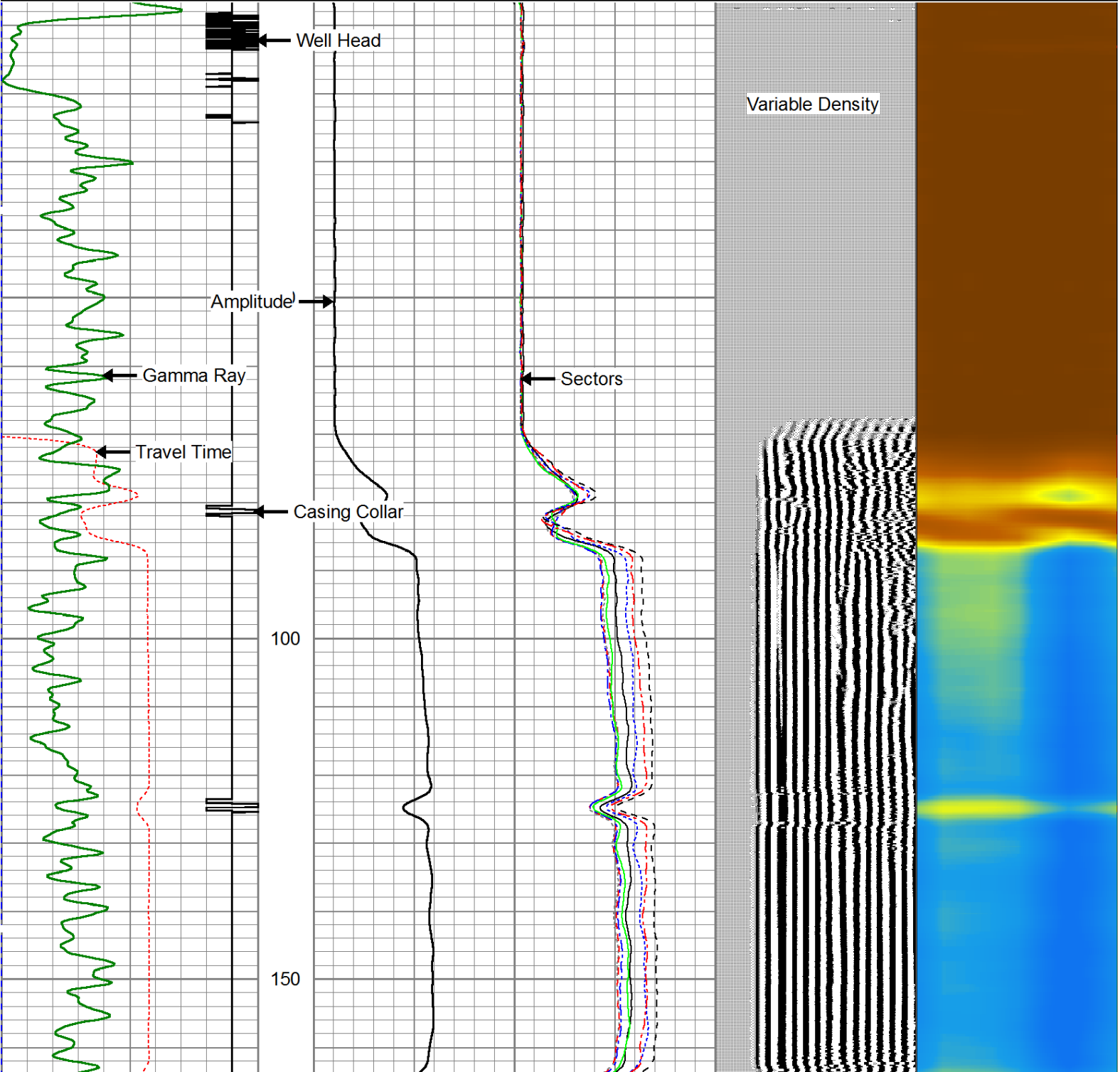
Main Pass (0 PSI)

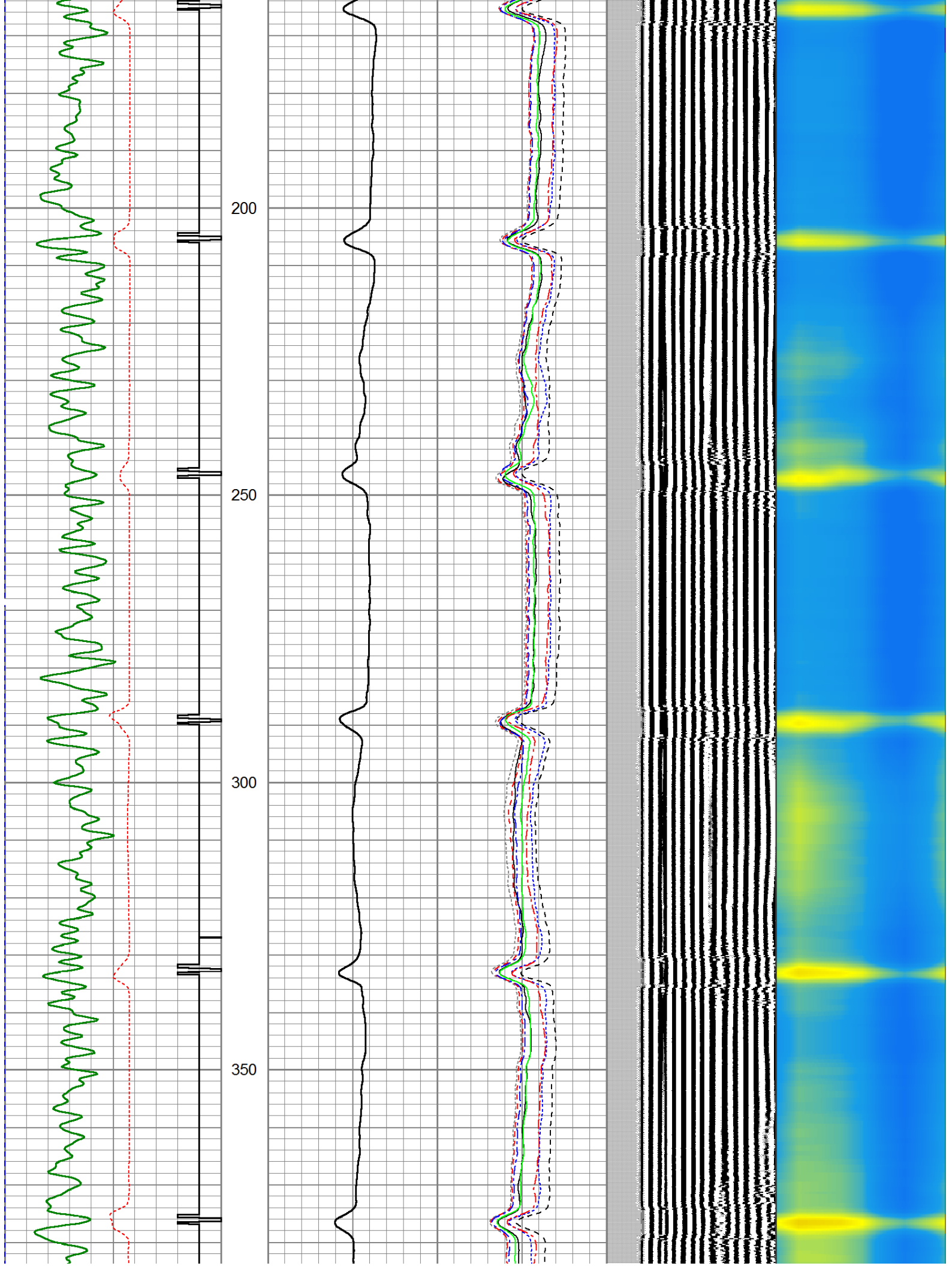
Database File: slw_ranch_state_b_db
Dataset Pathname: pass8.2
Presentation Format: scbl03
Dataset Creation: Tue Jun 04 19:50:28 2013 by Calc 0
Charted by: Depth in Feet scaled 1:240

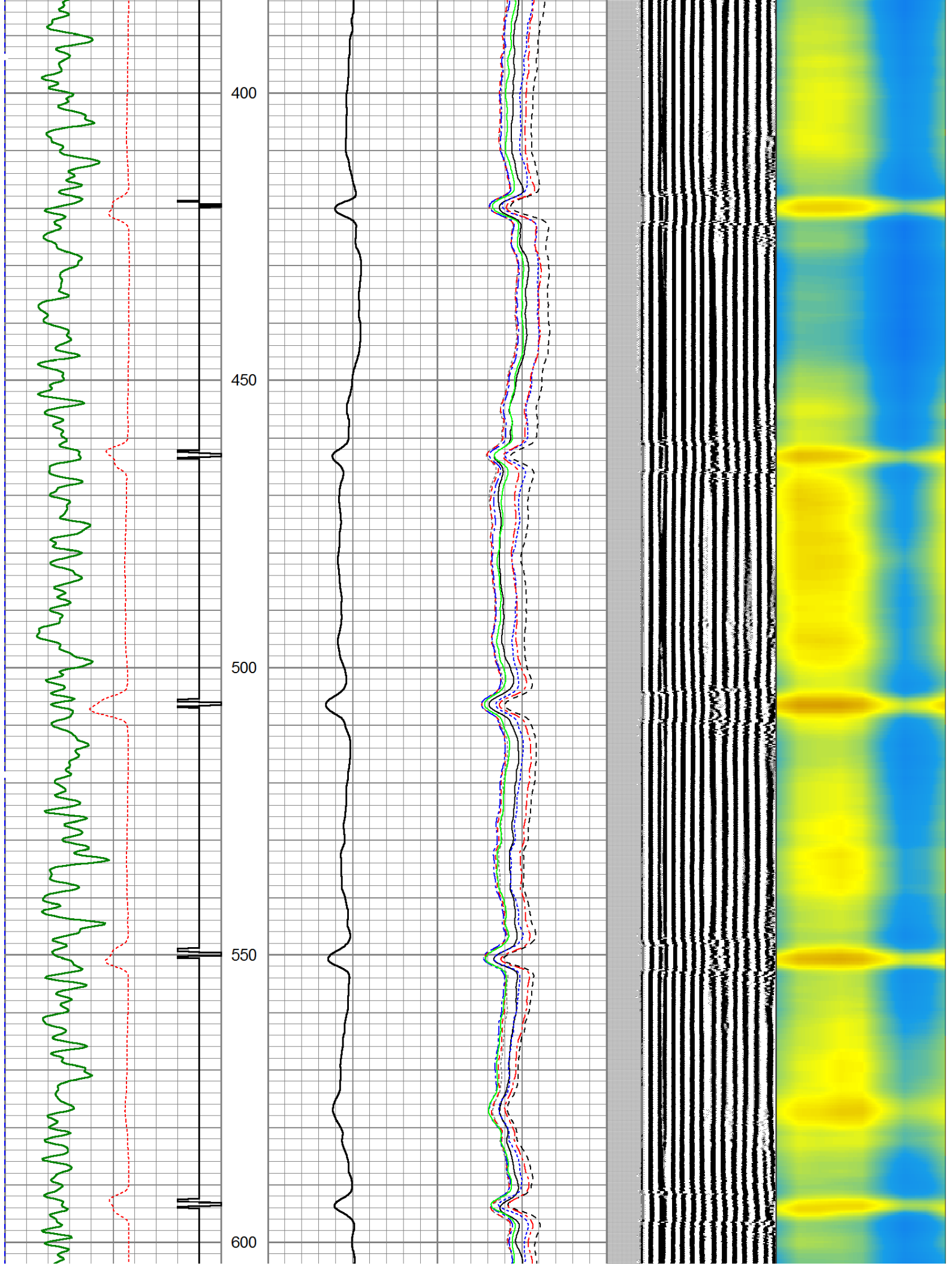
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

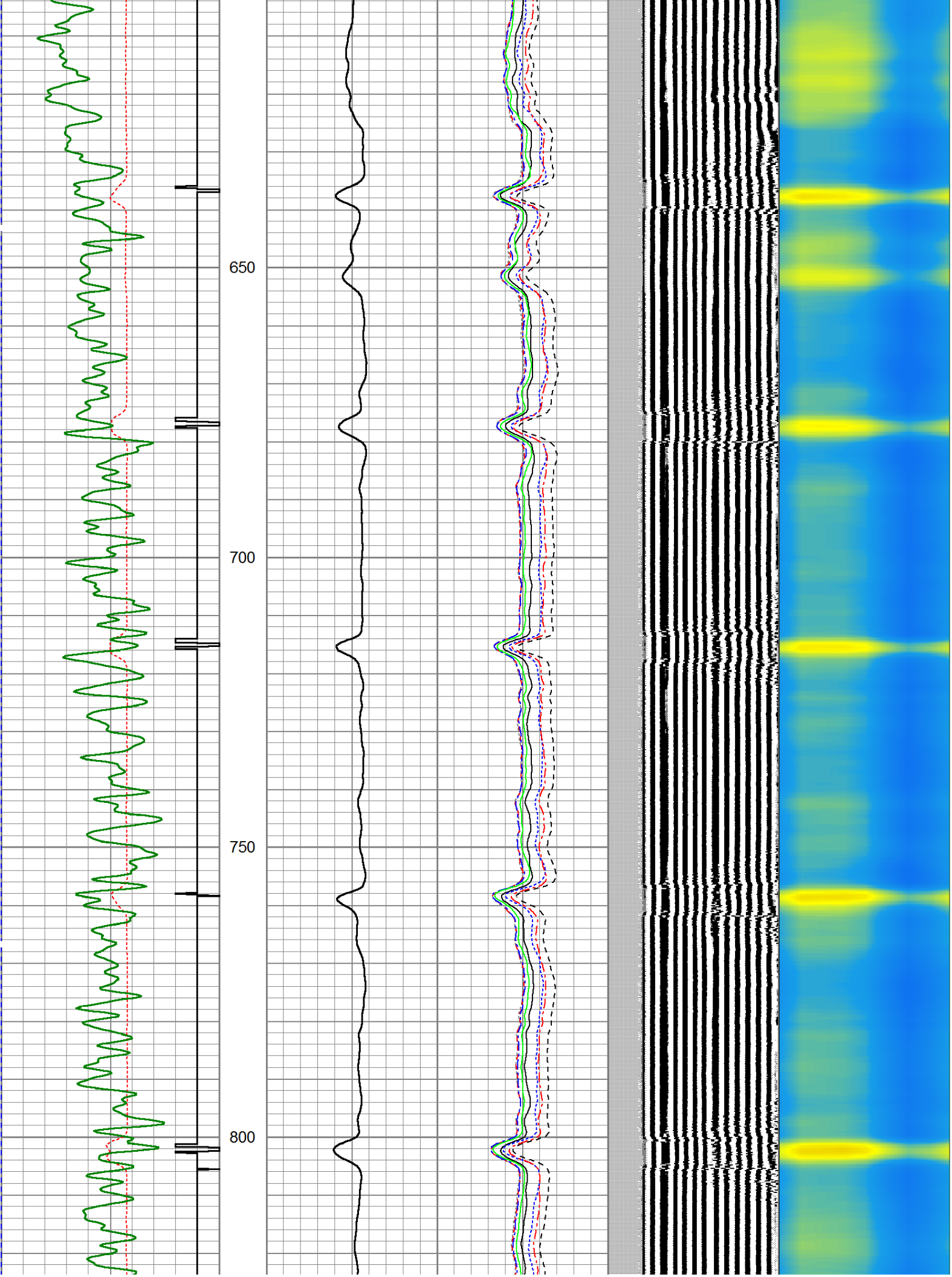
0	Amplitude (mV)	100	-5	AMPS1	150
	Amplified Amplitude		-5	AMPS2	150
0	(mV)	10	-5	AMPS3	150
			-5	AMPS4	150
			-5	AMPS5	150
			-5	AMPS6	150
			-5	AMPS7	150
			-5	AMPS8	150

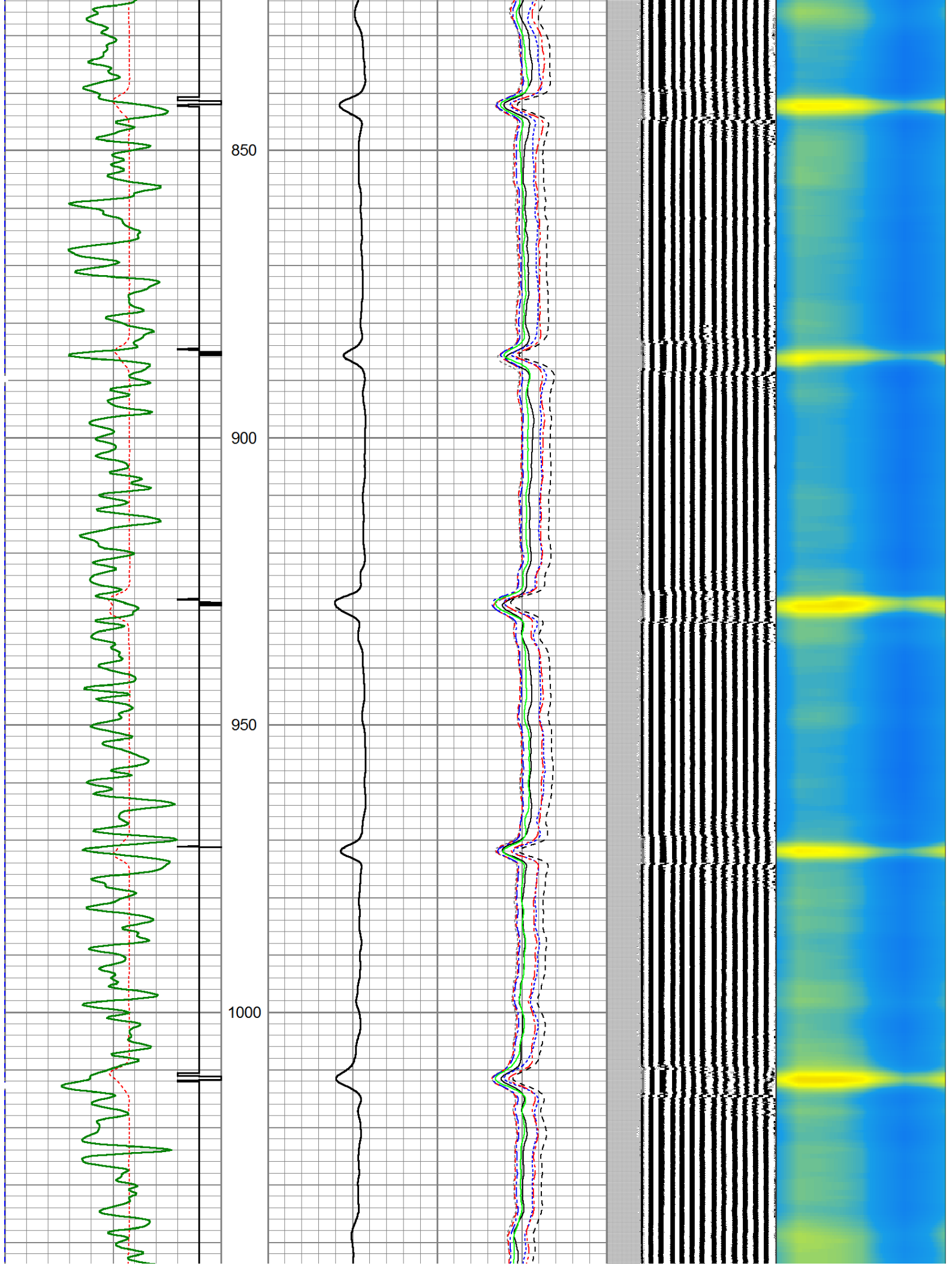
Variable Density	1	Cement Map	8
200	1200	0	100

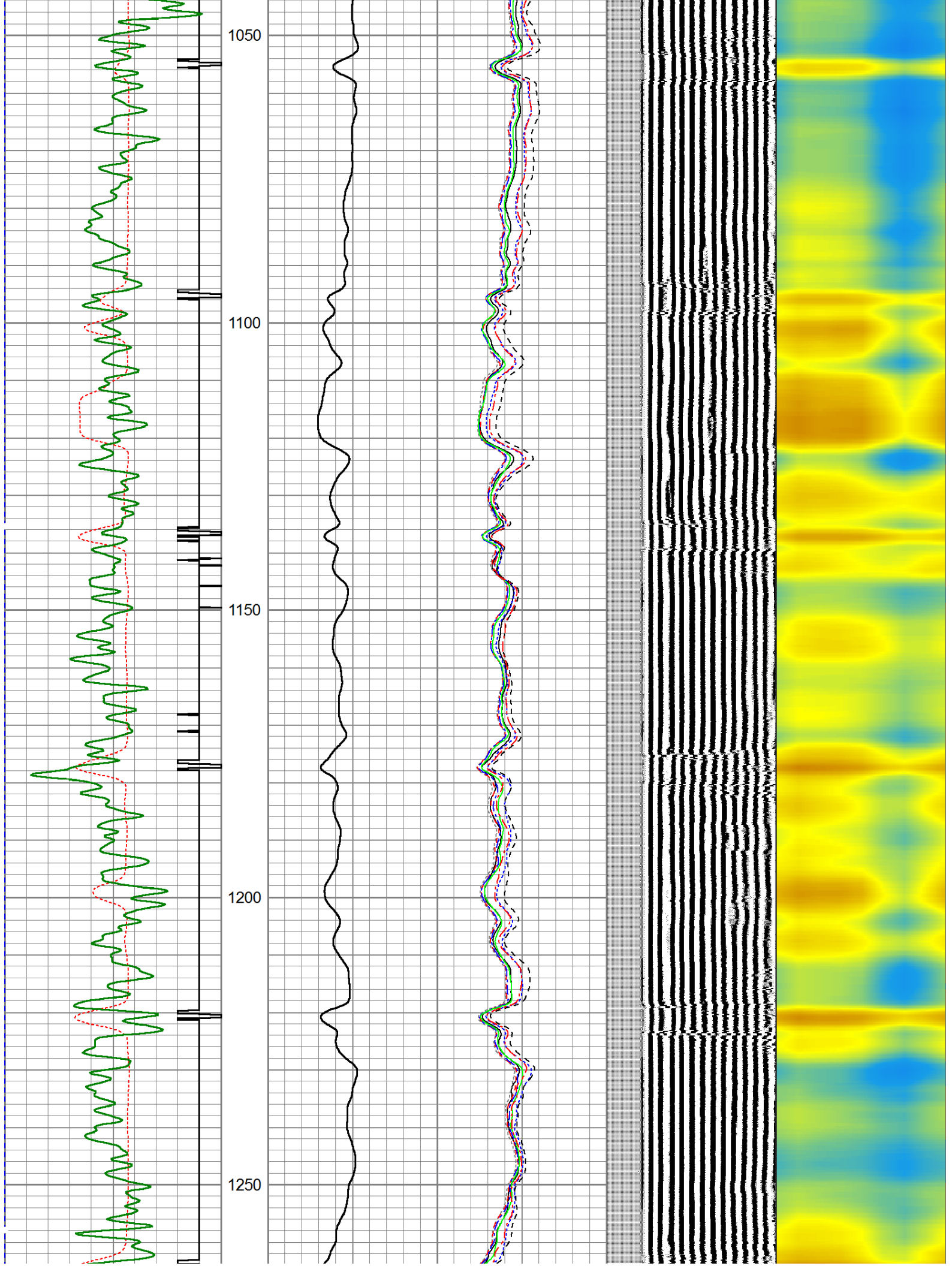


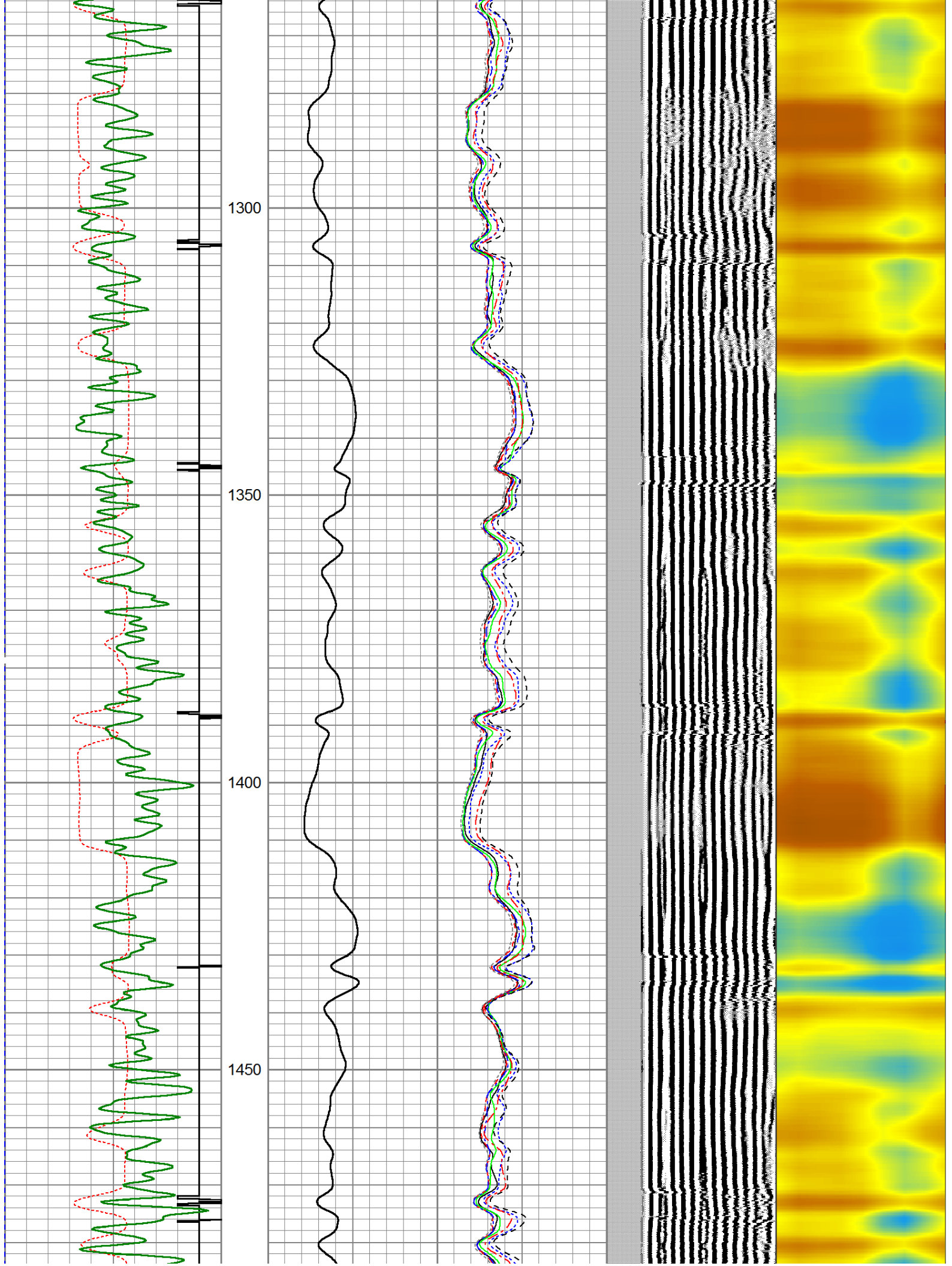


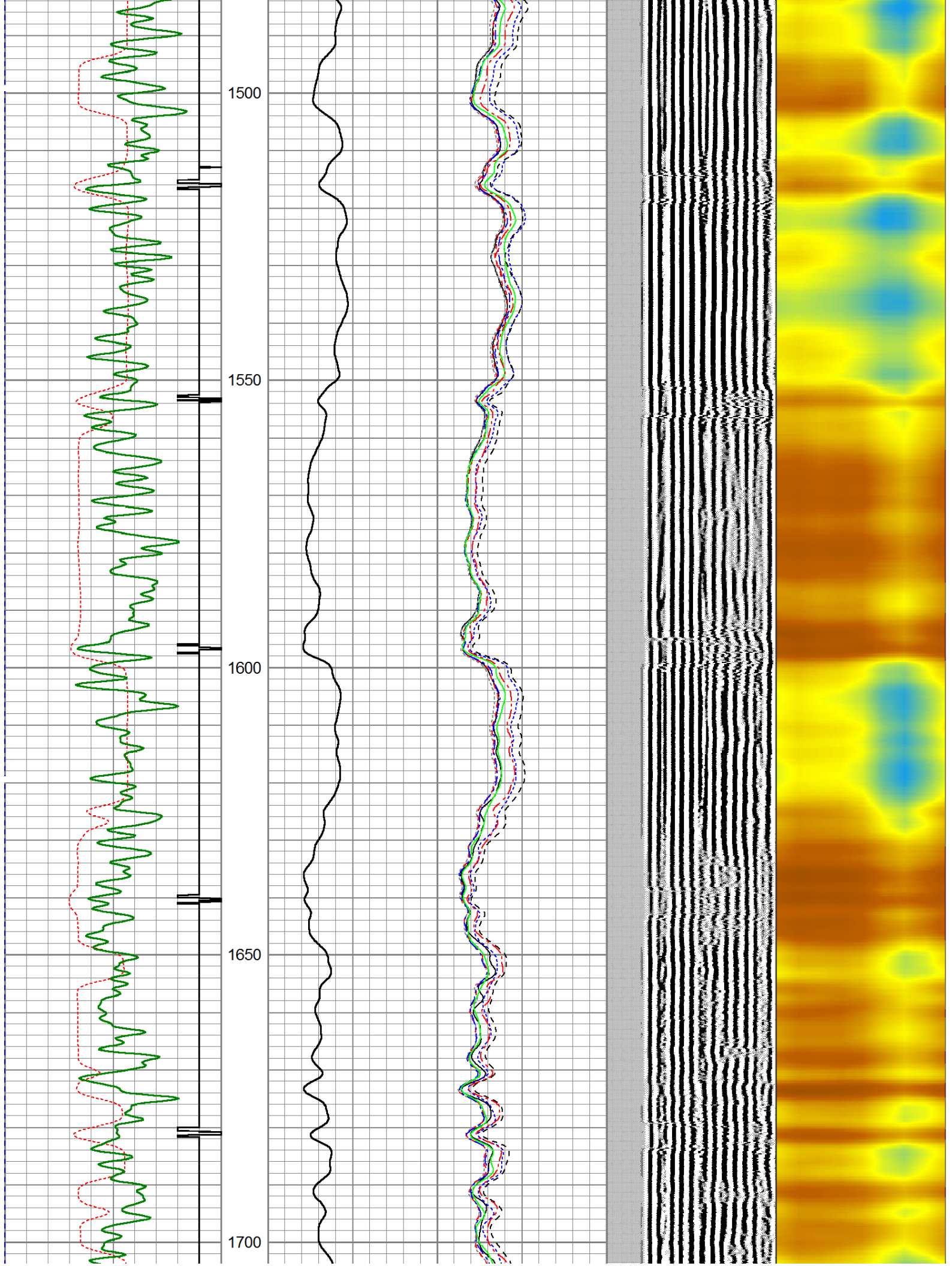


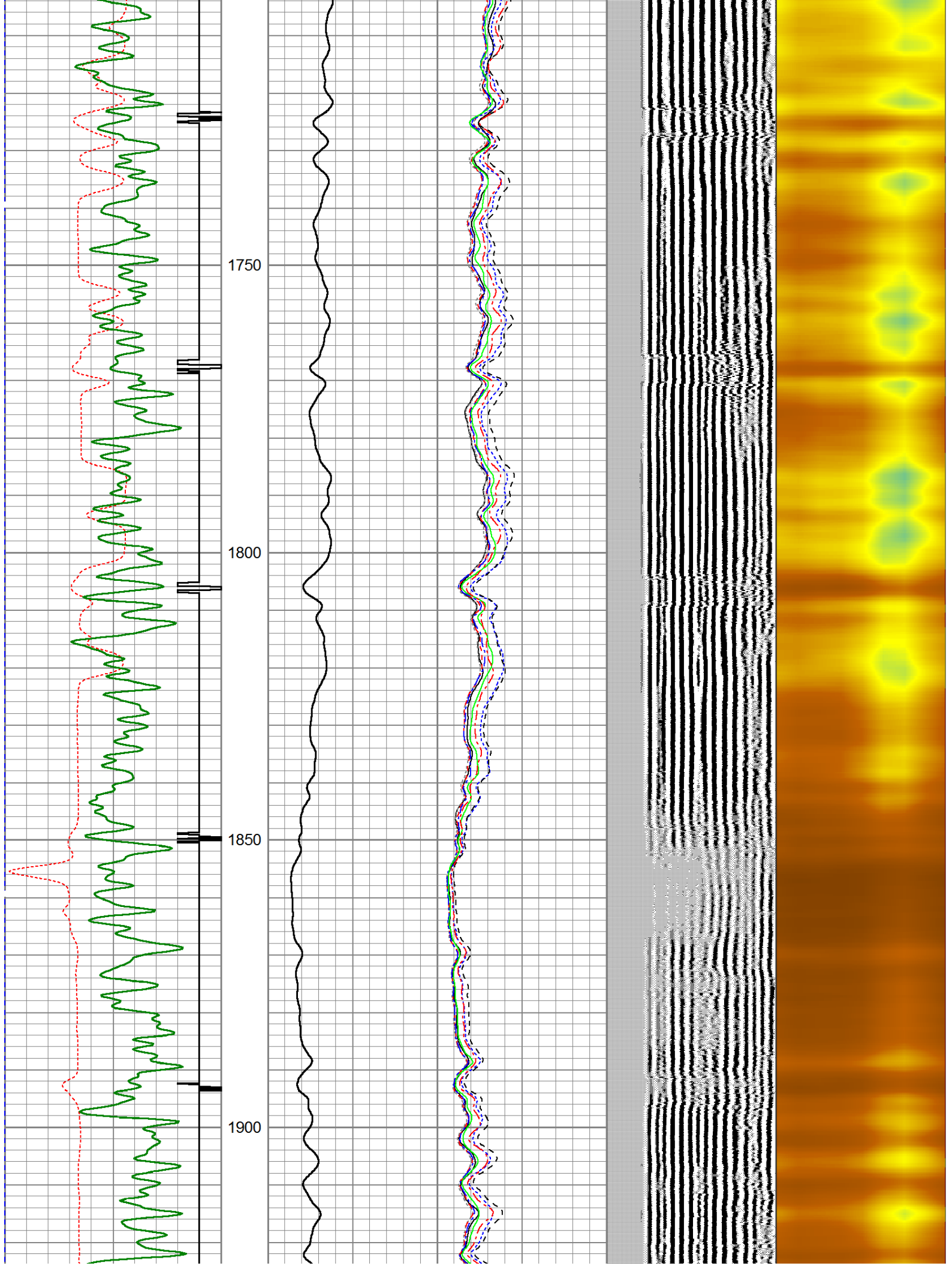


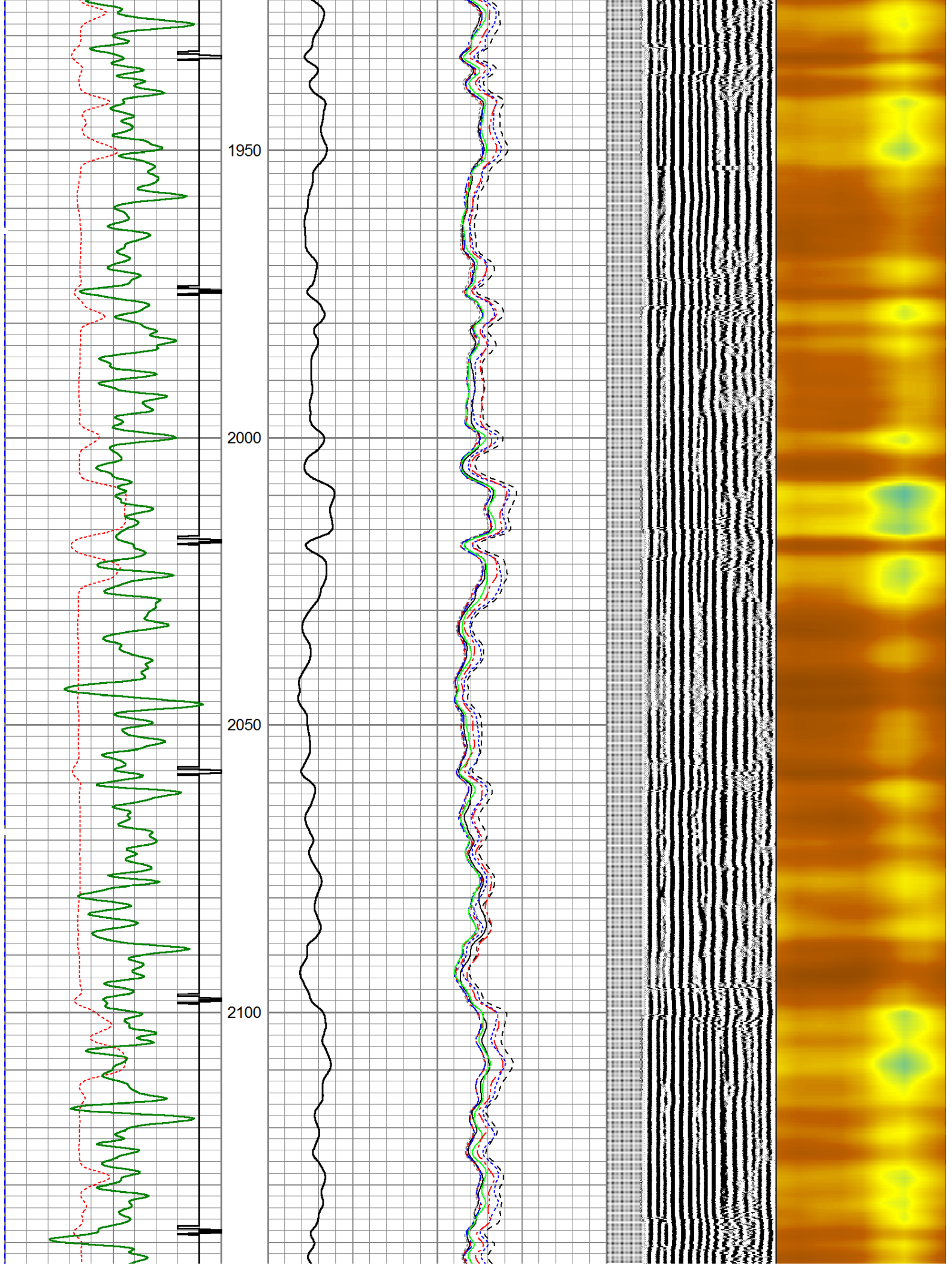


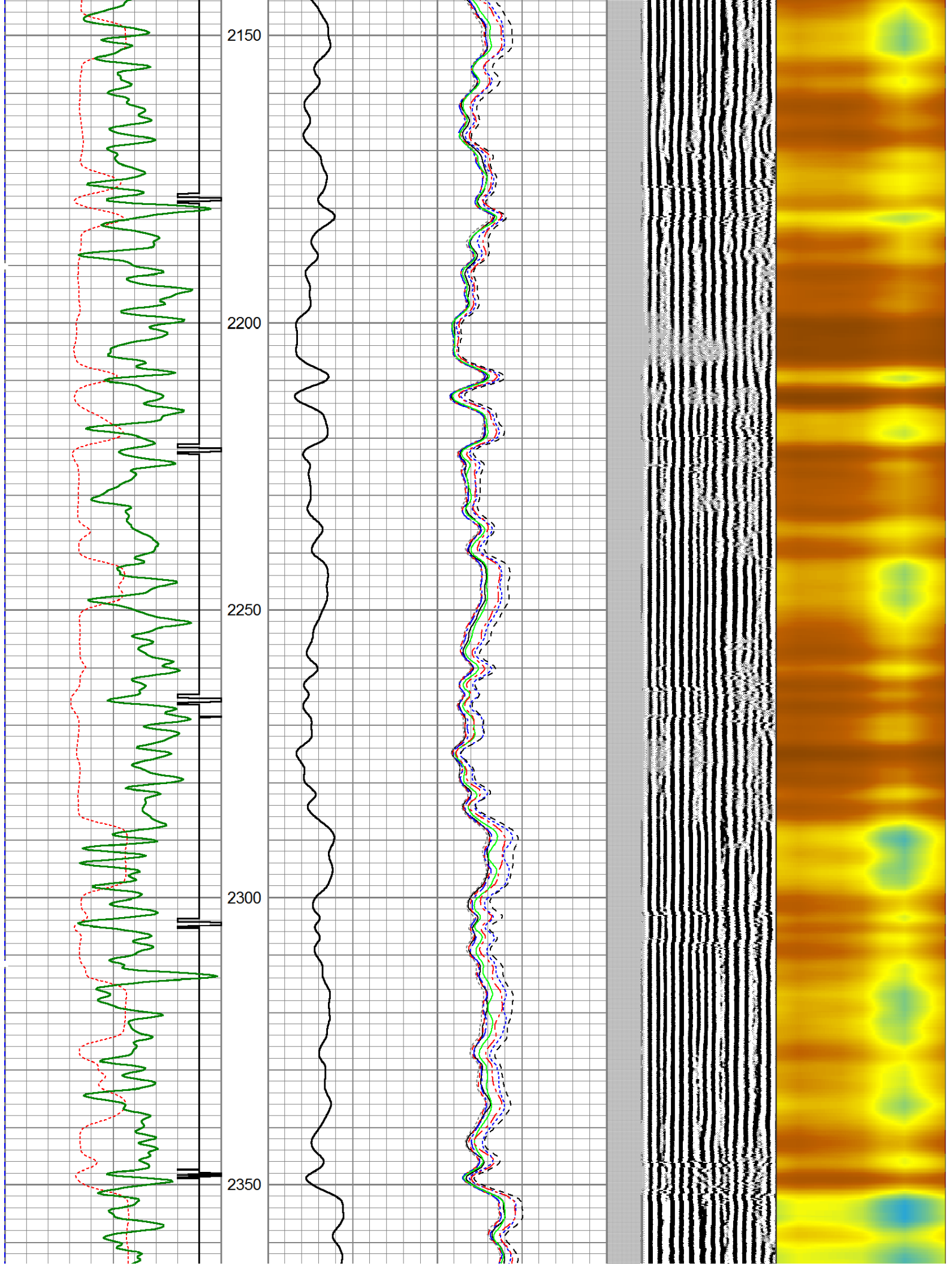


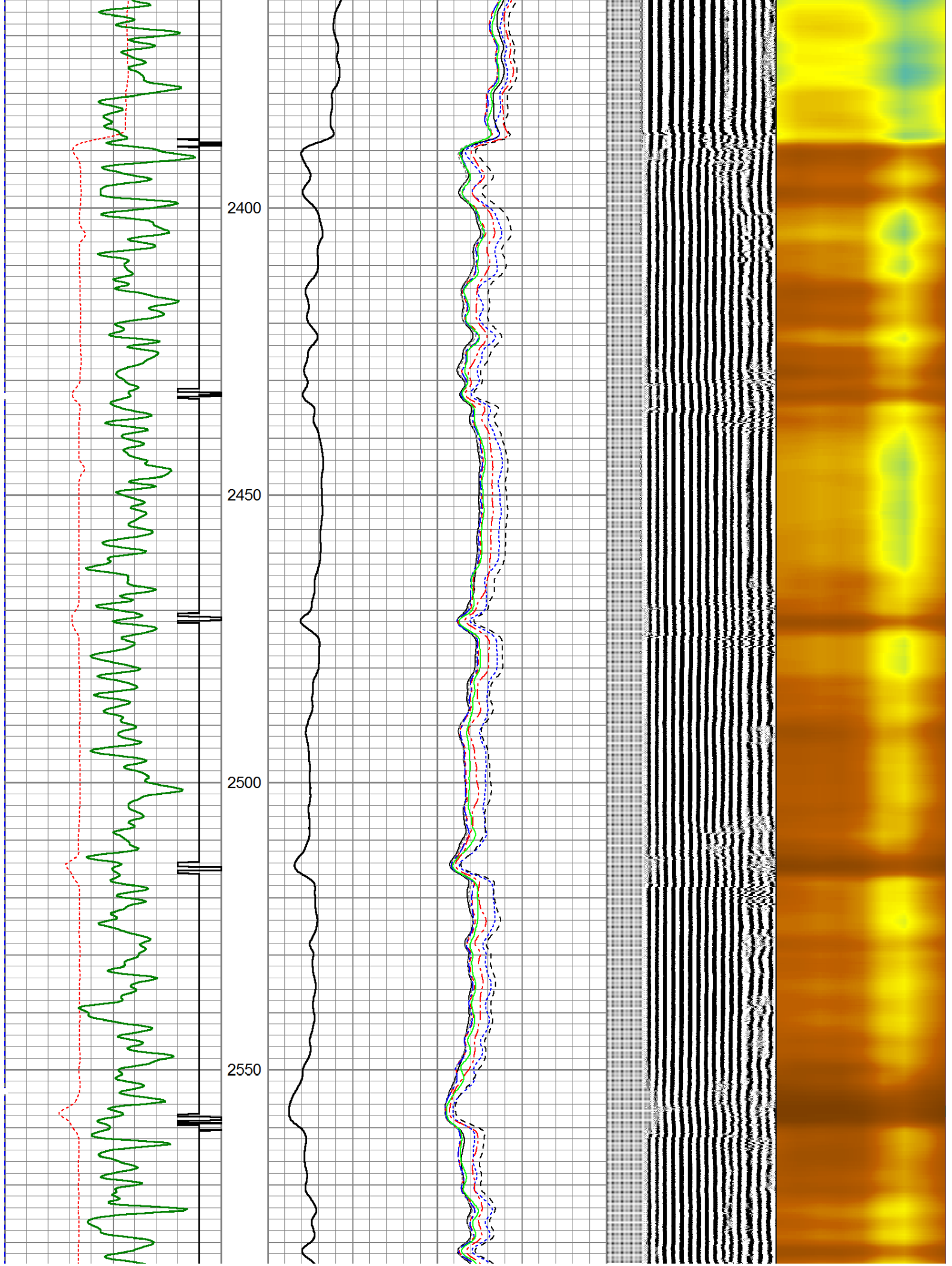


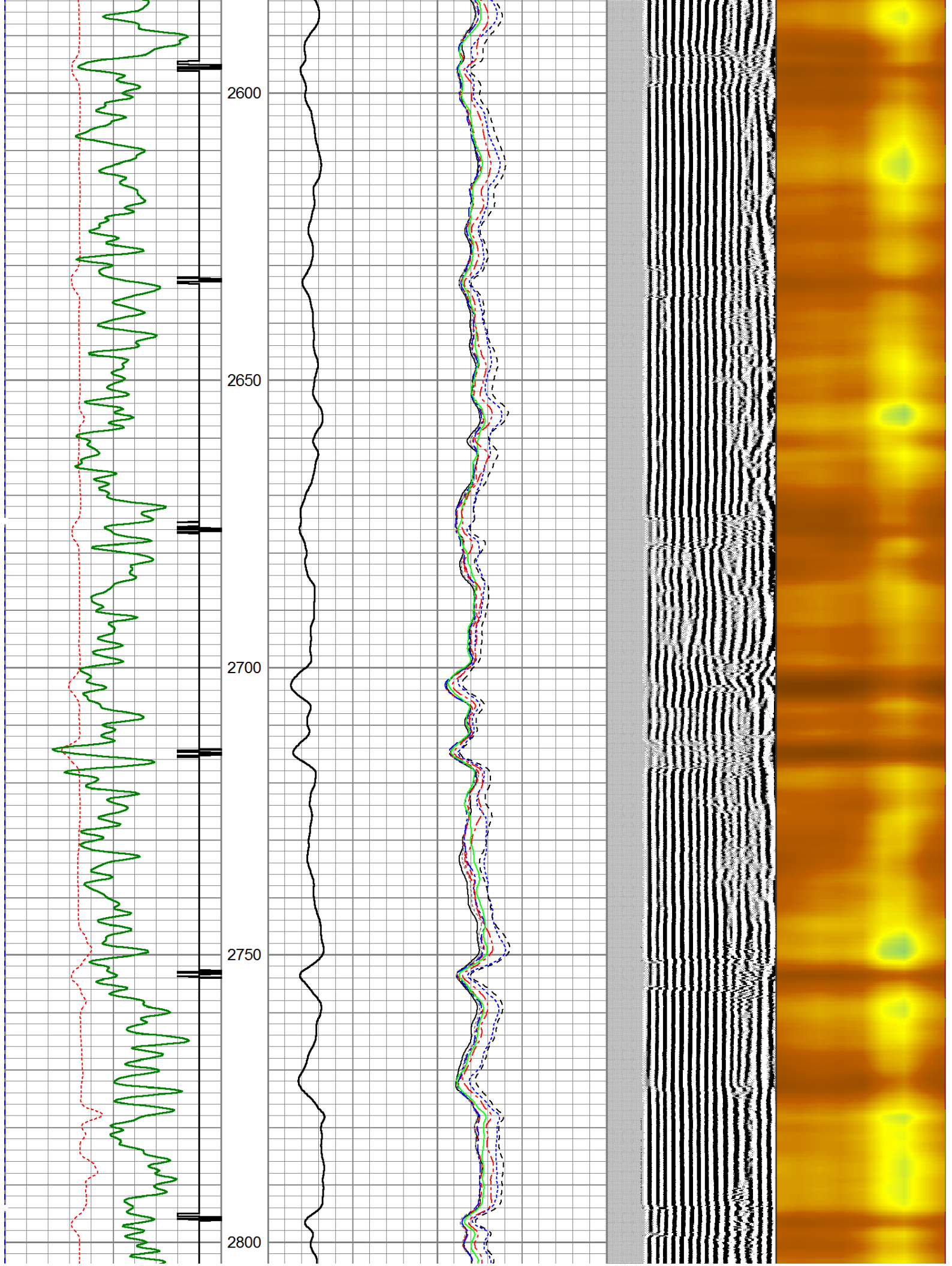


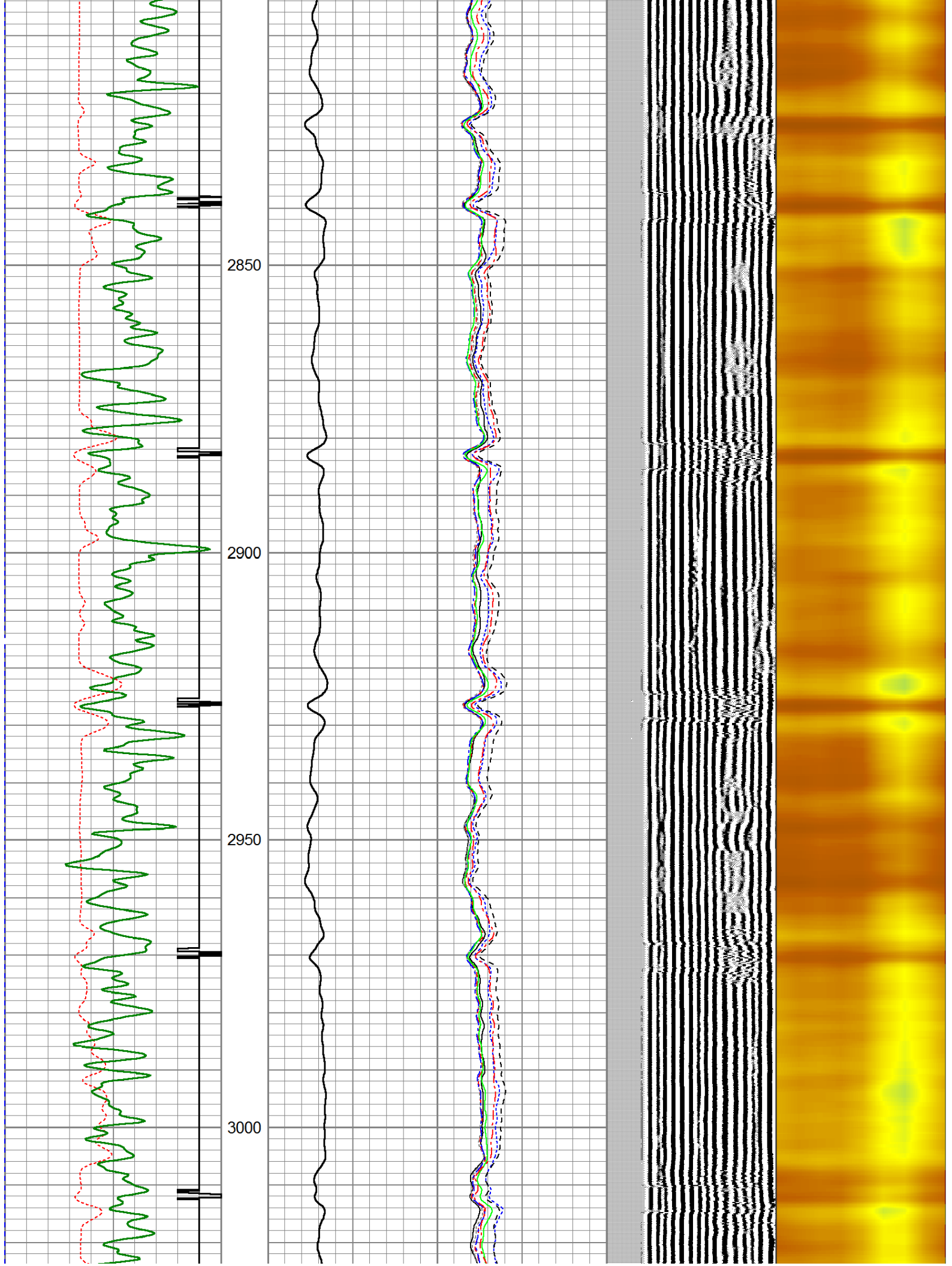


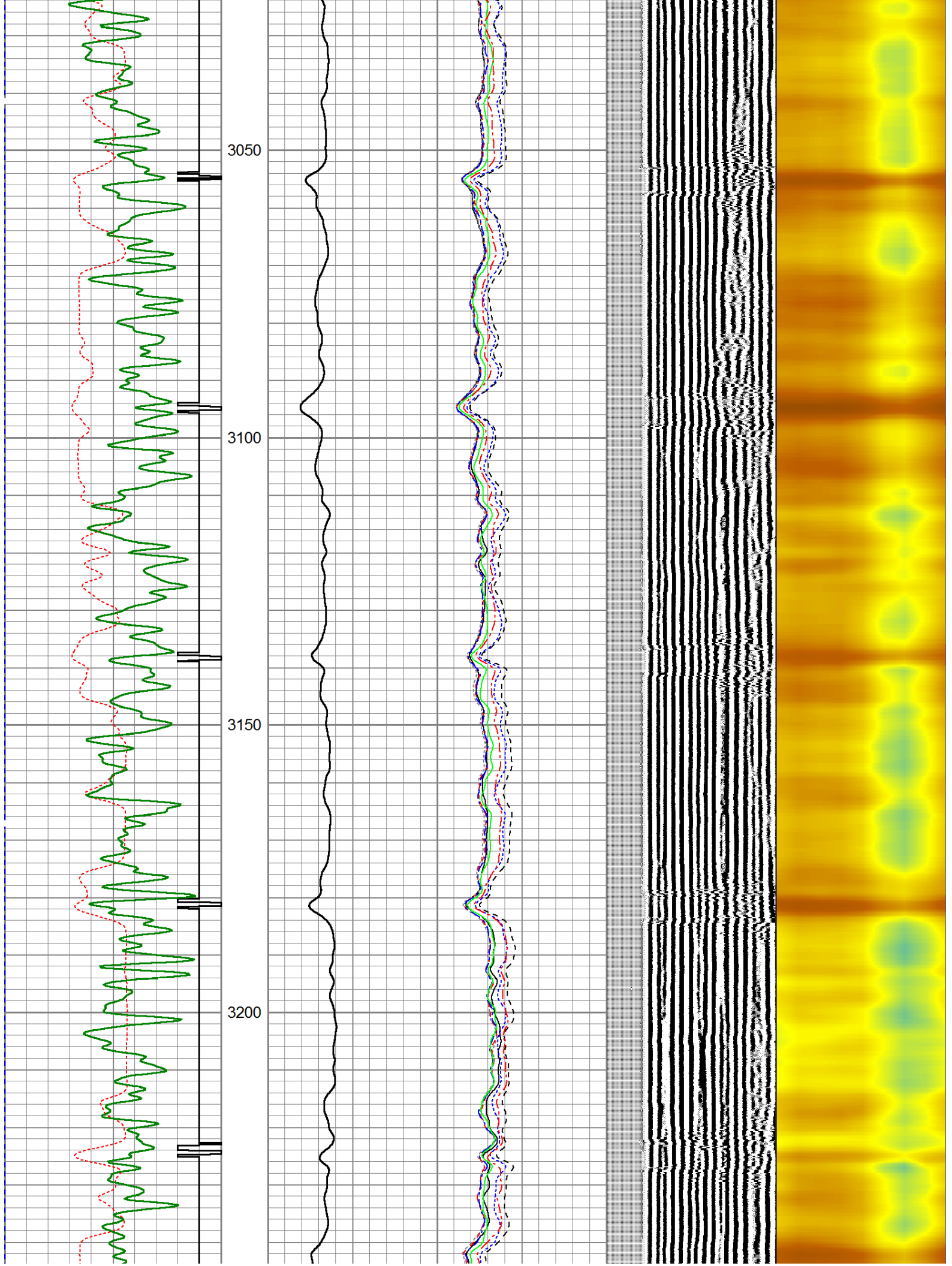


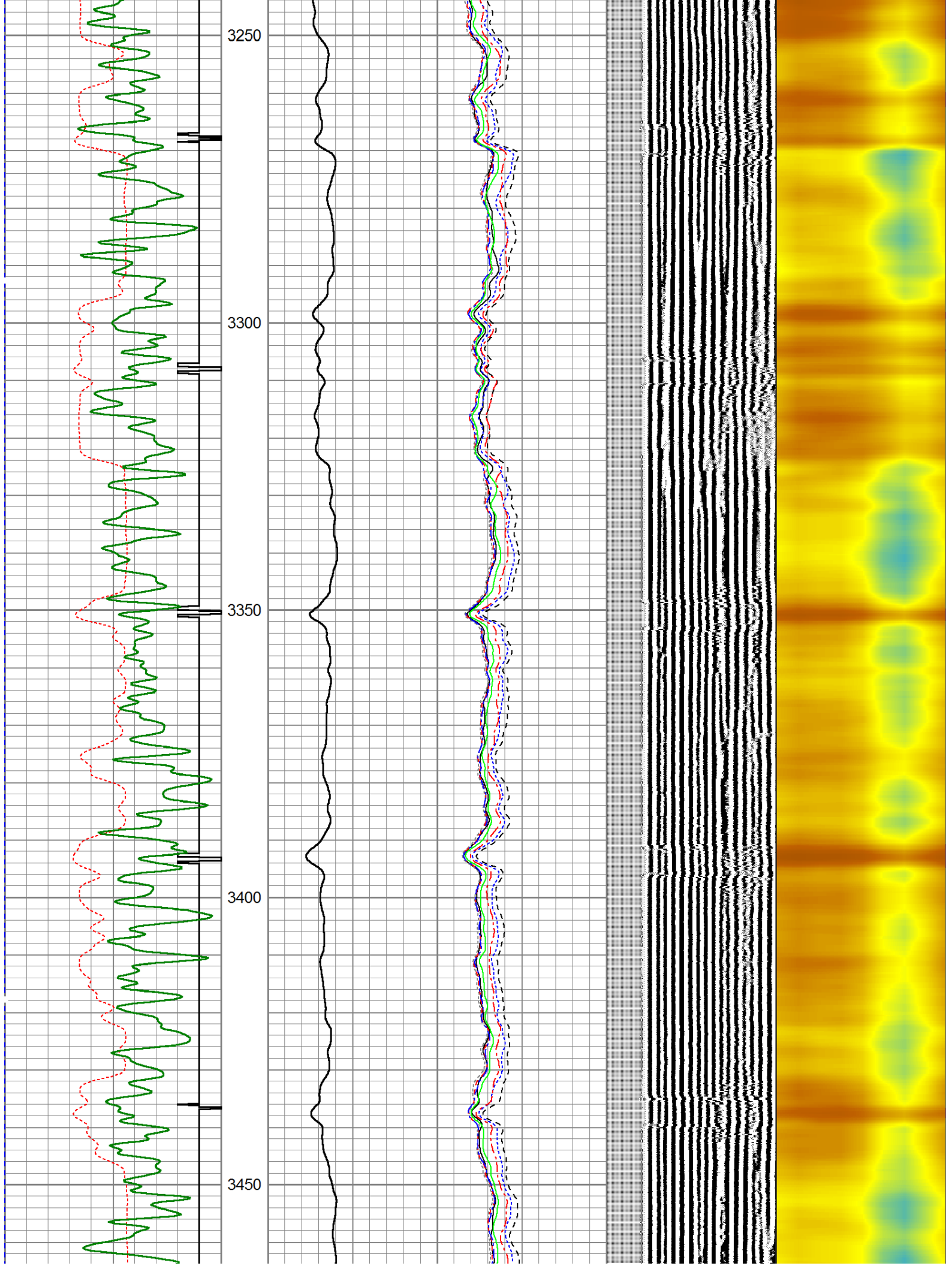


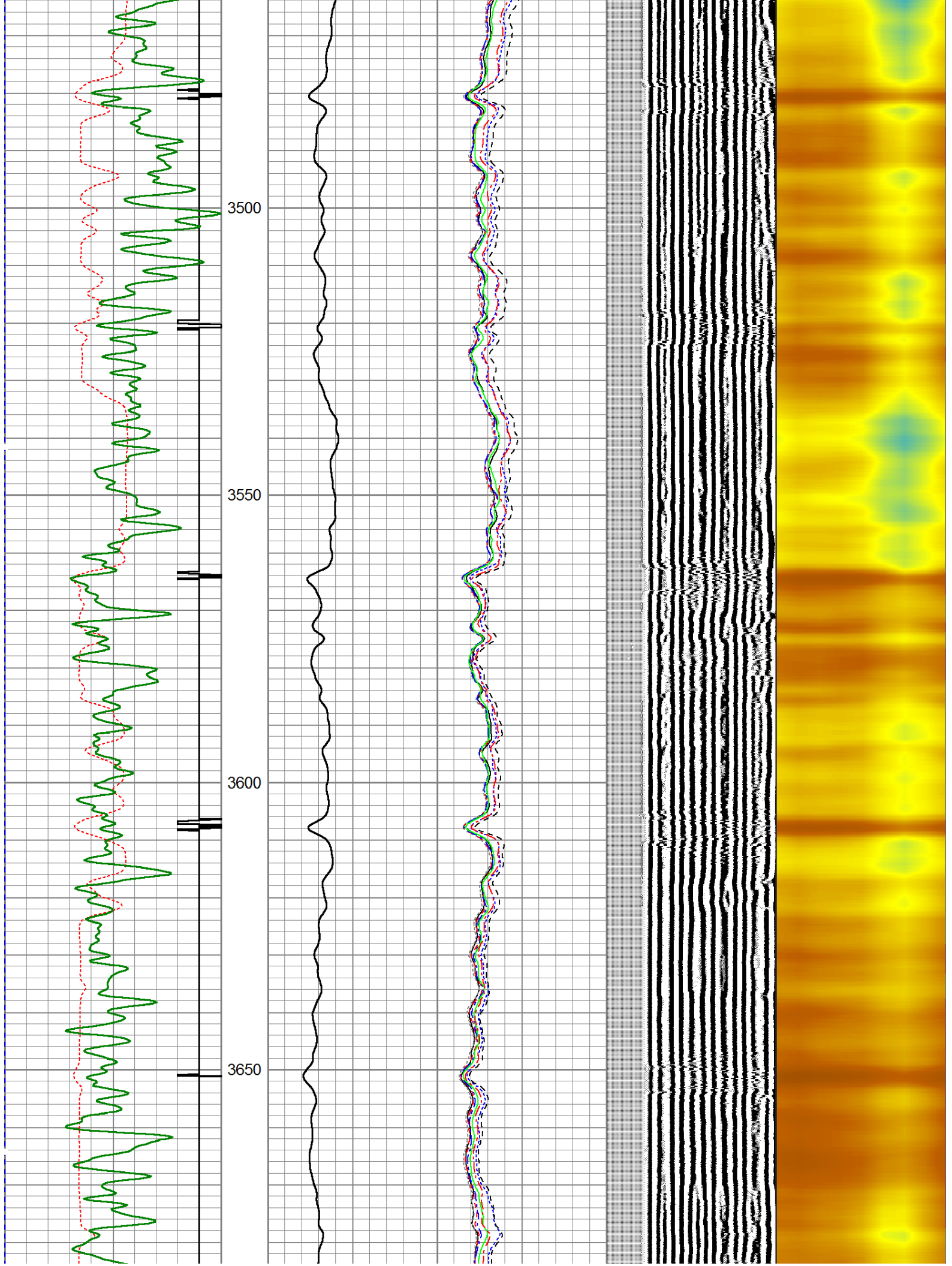


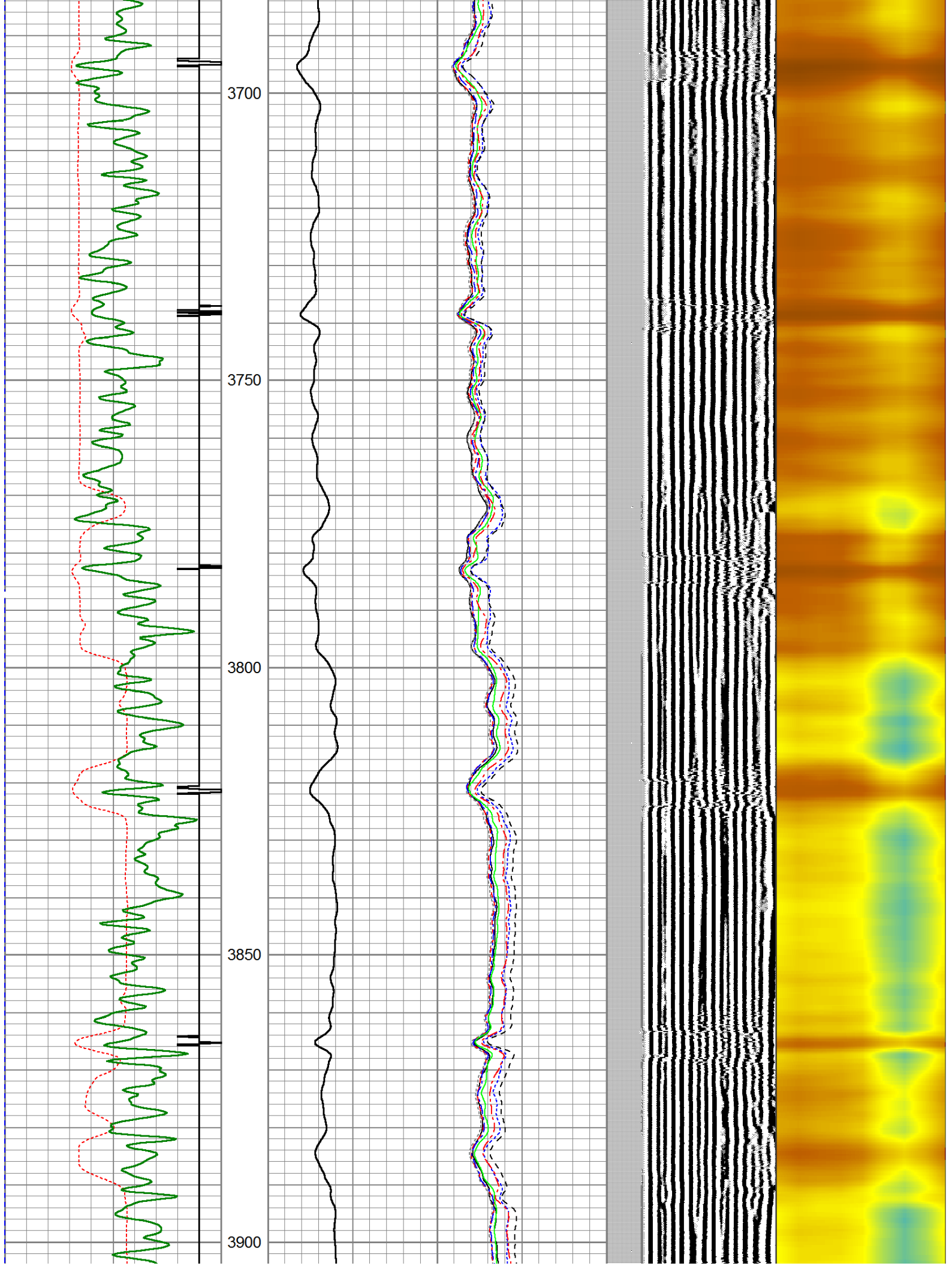


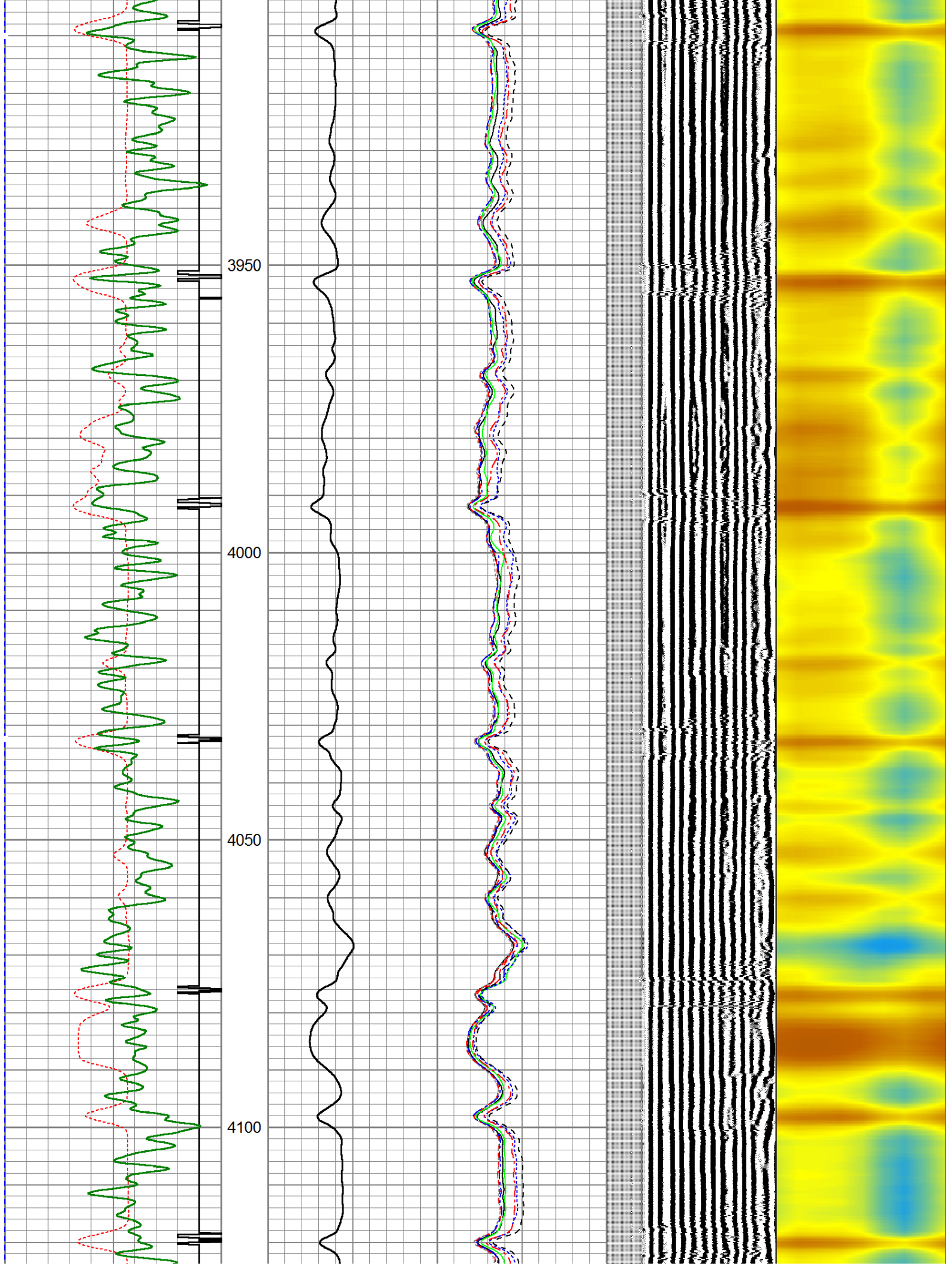


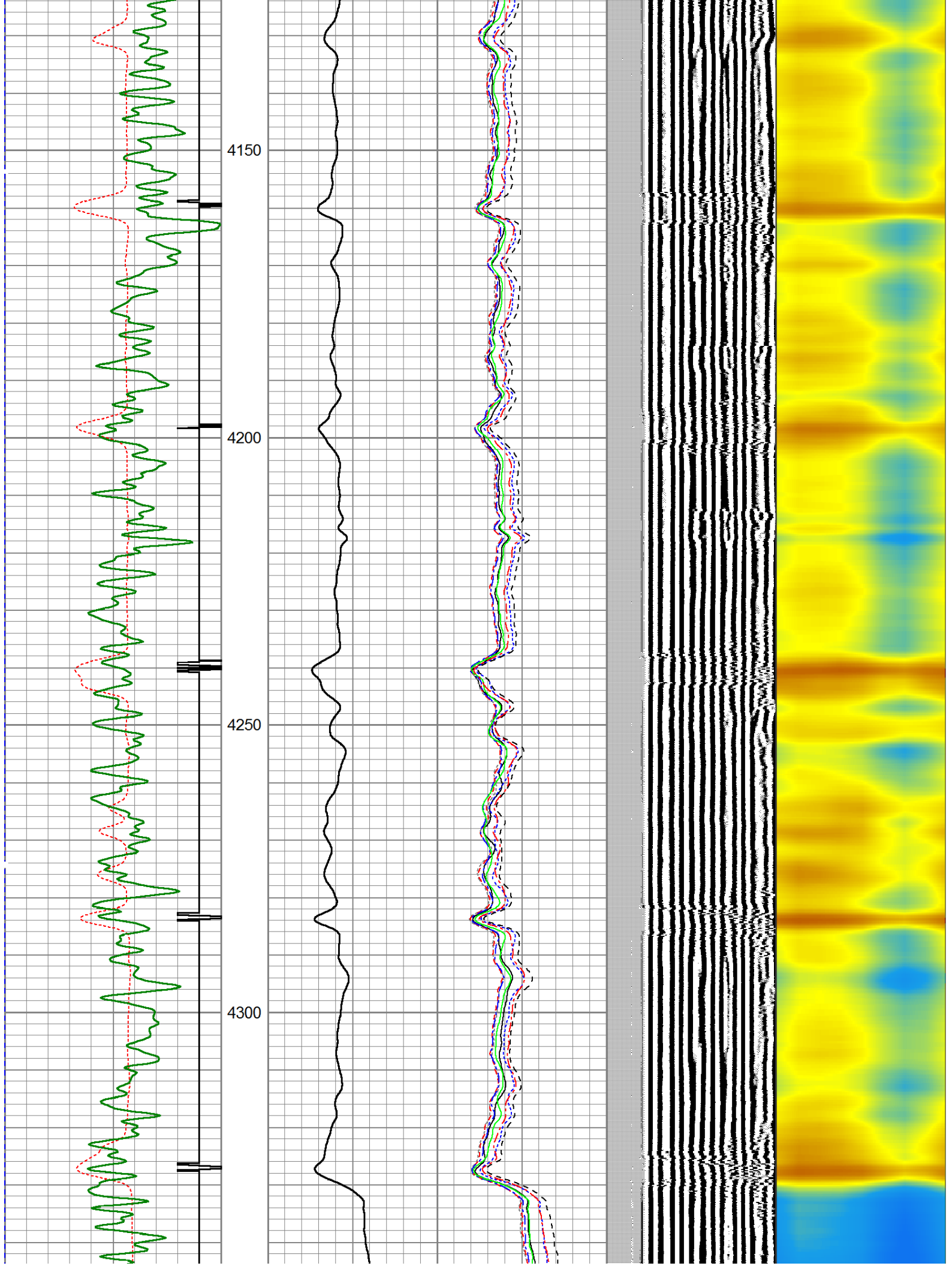


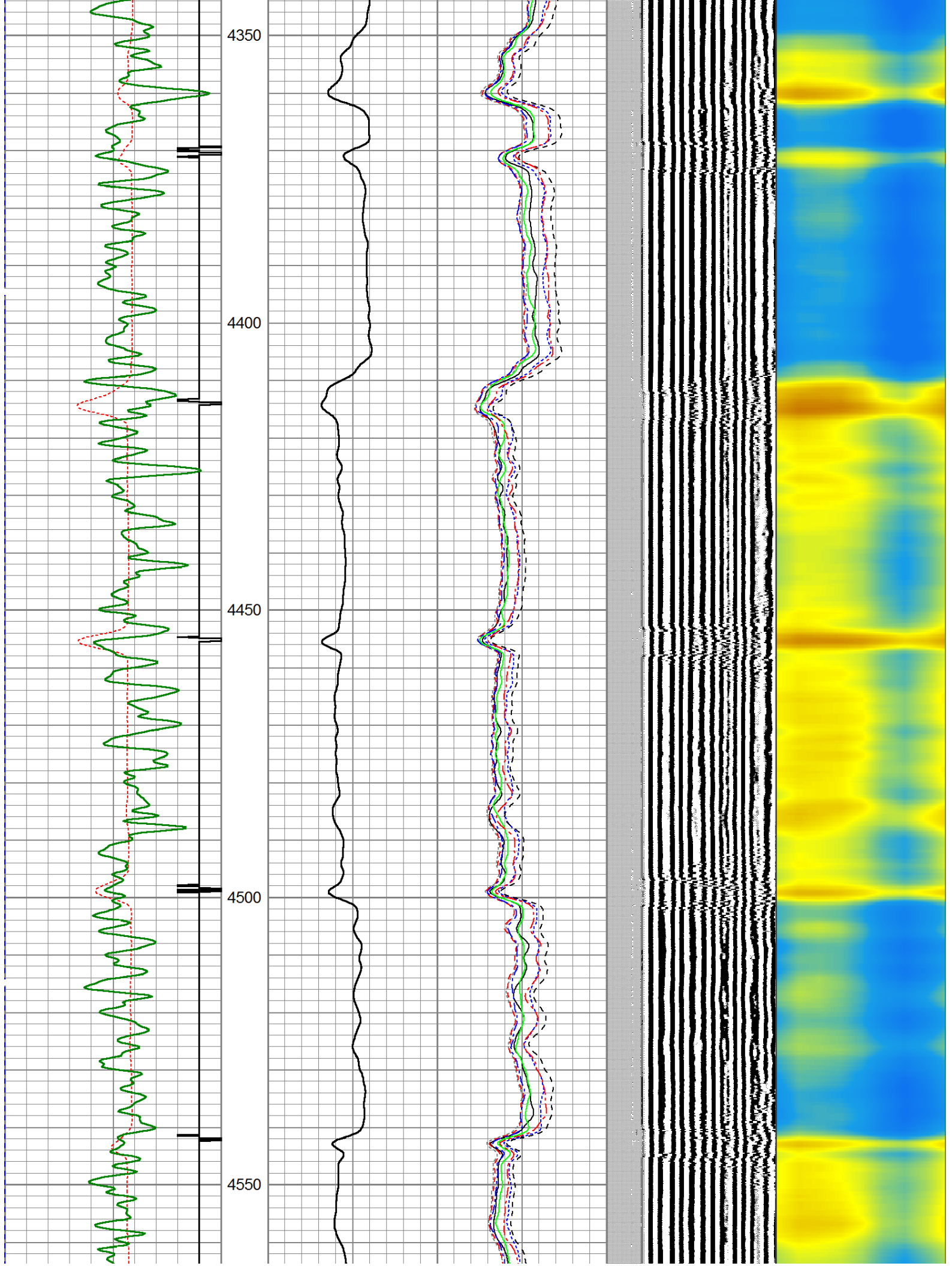


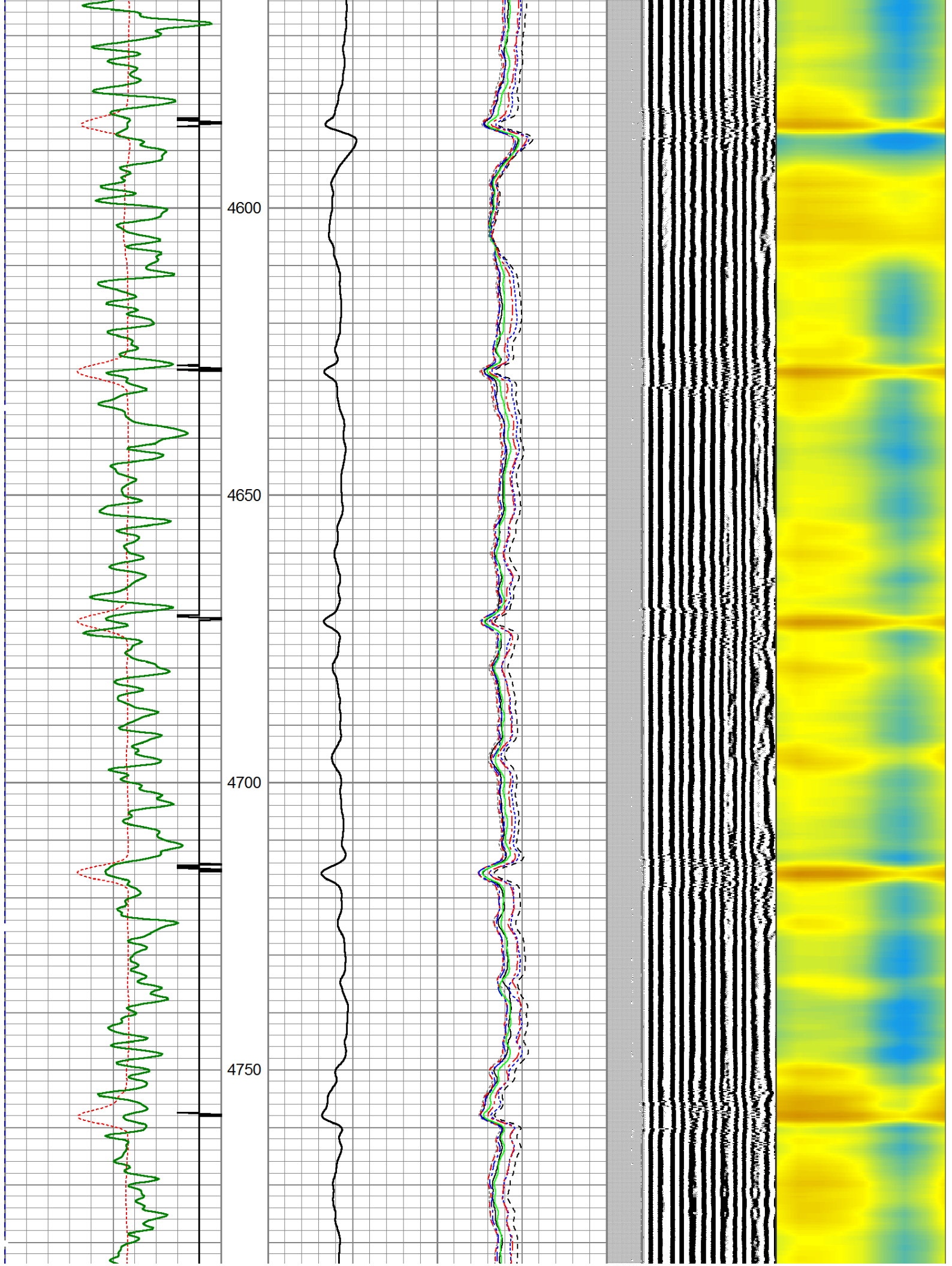


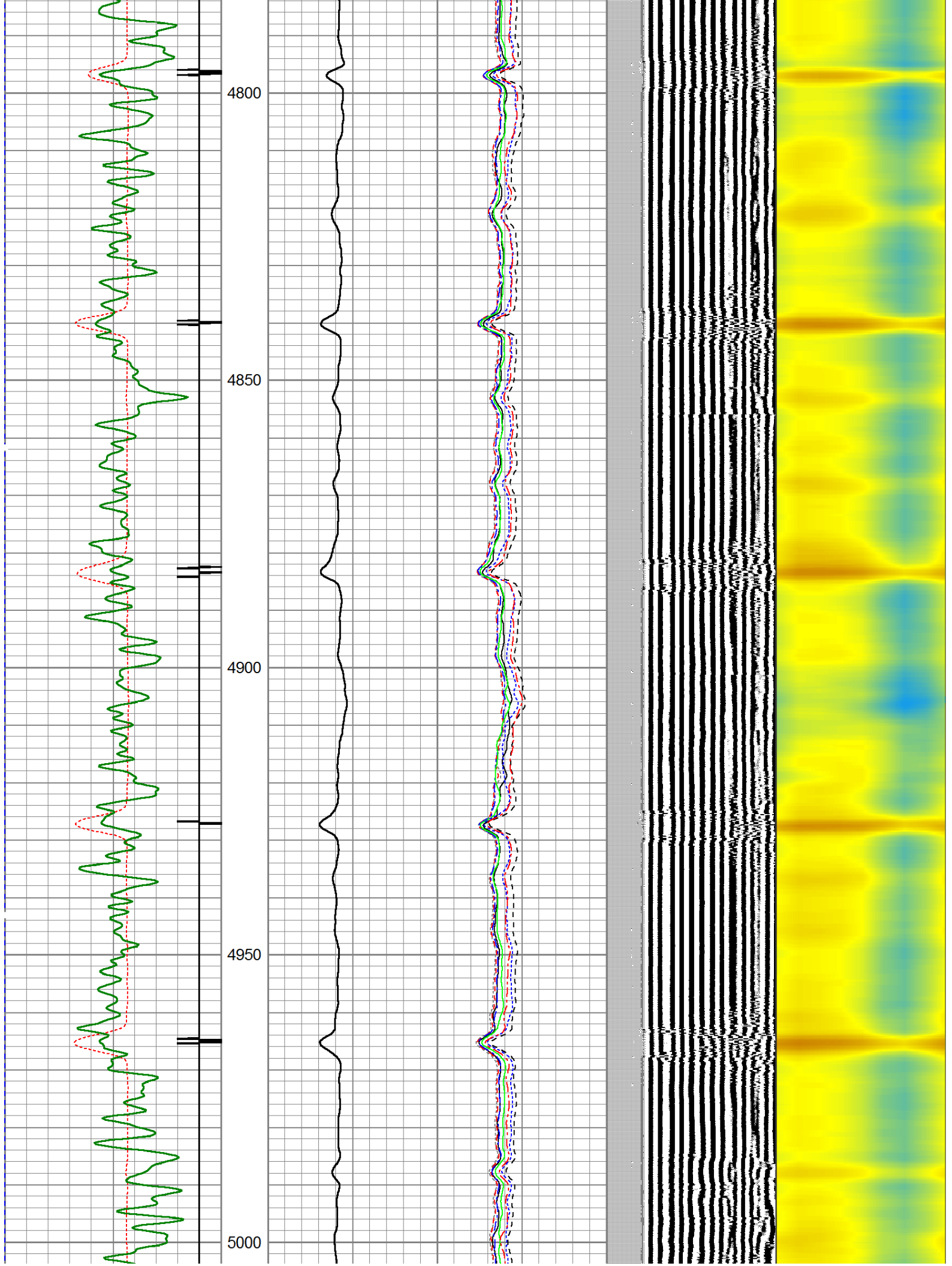


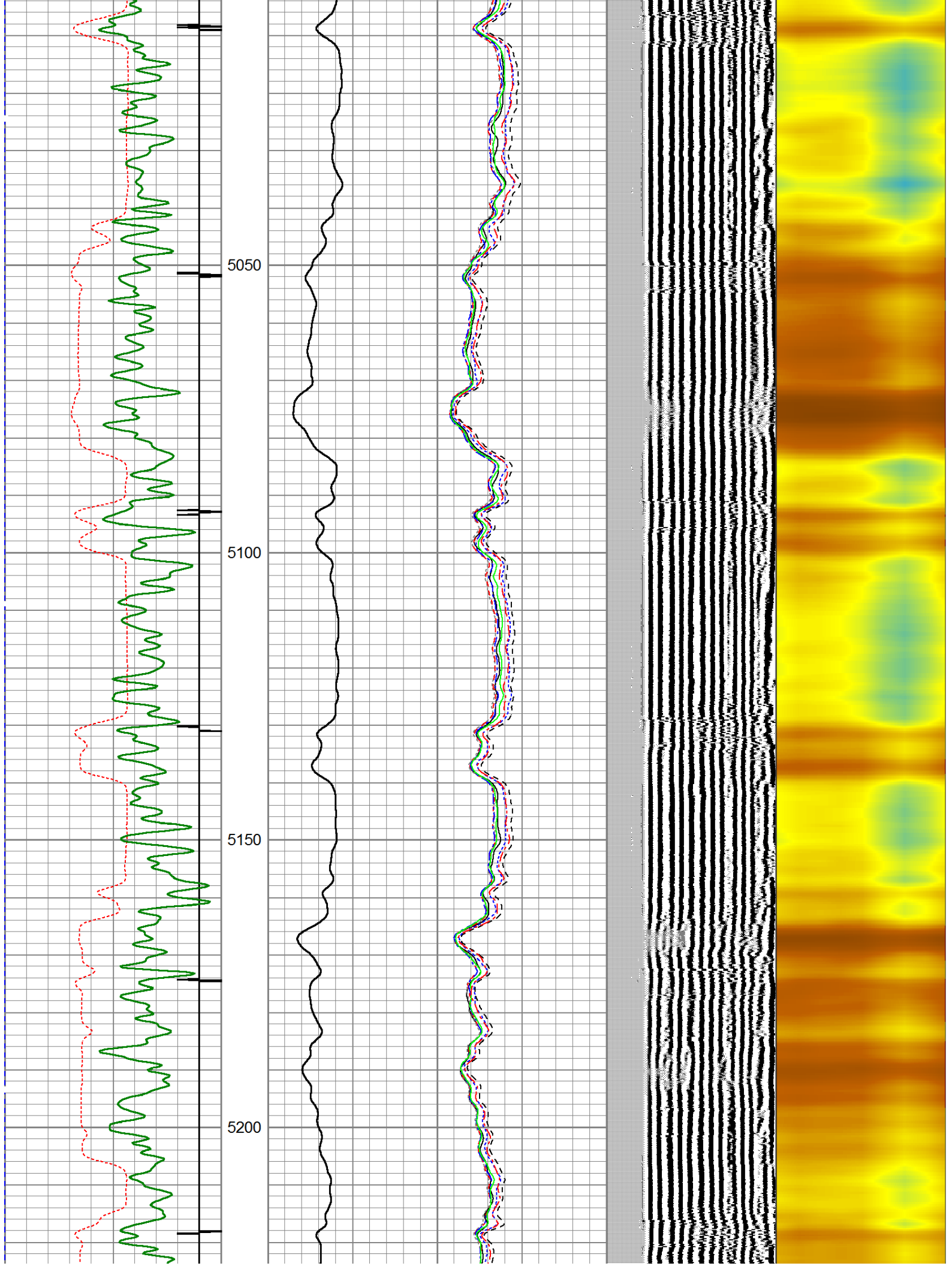


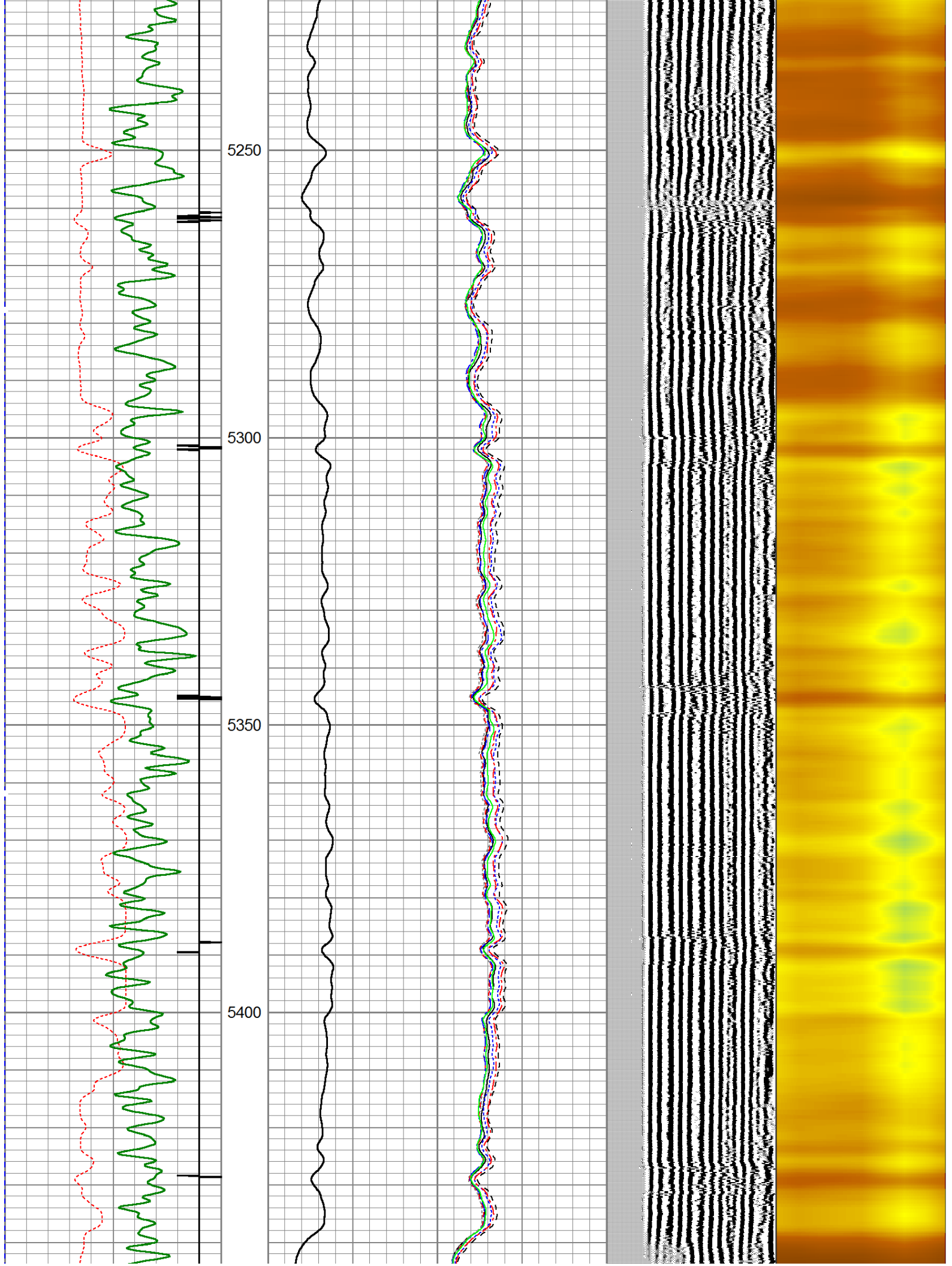


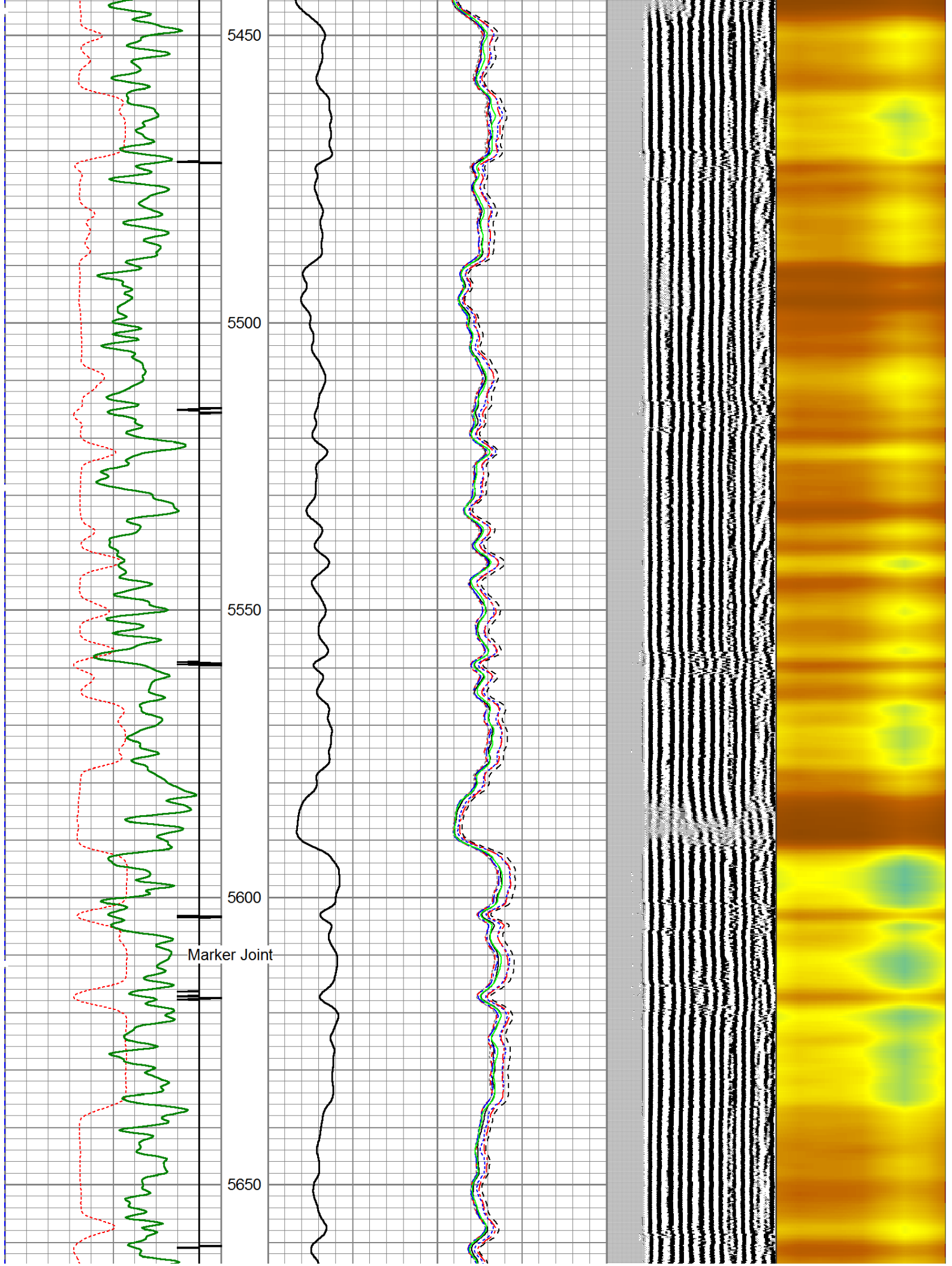


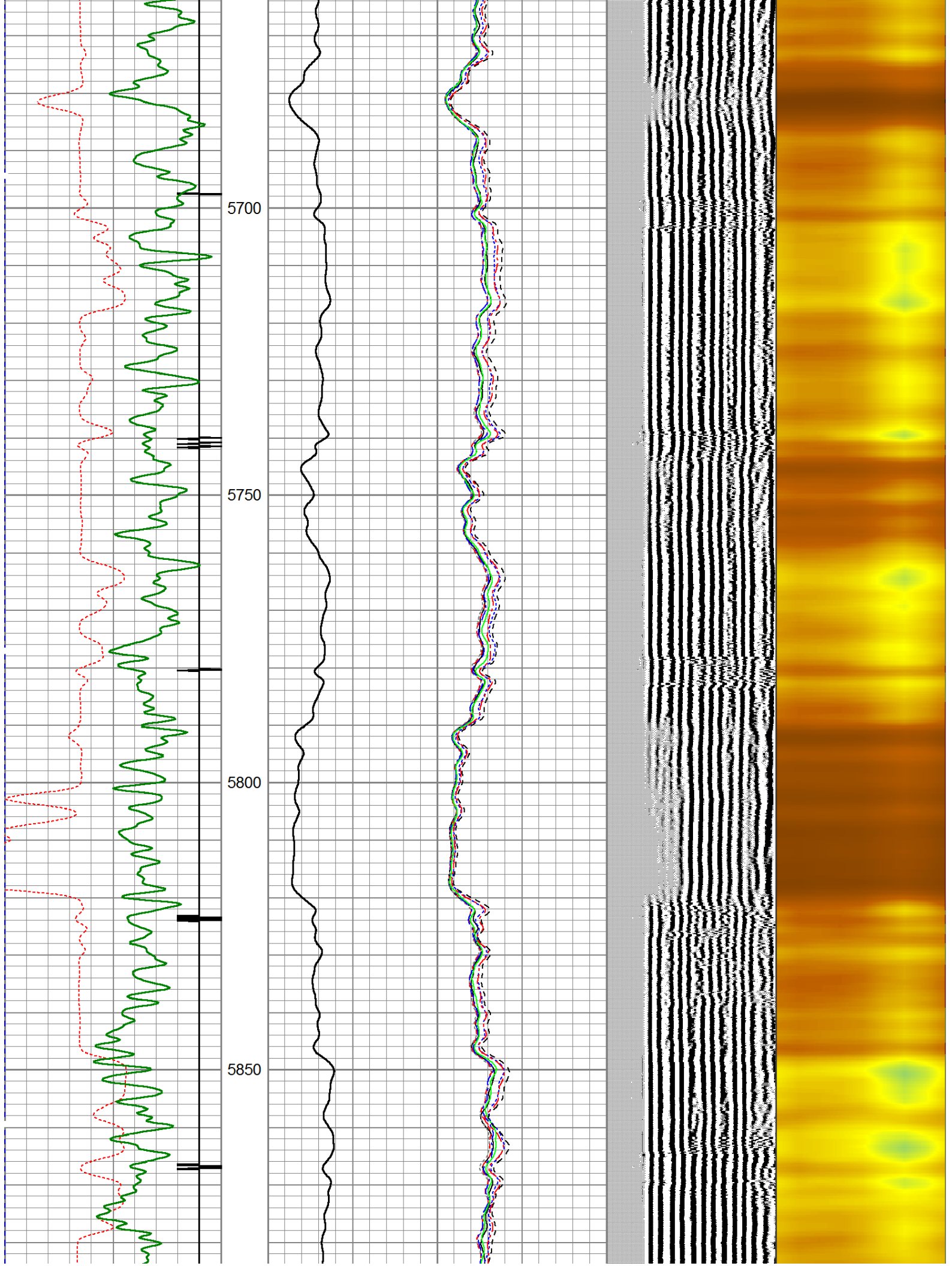


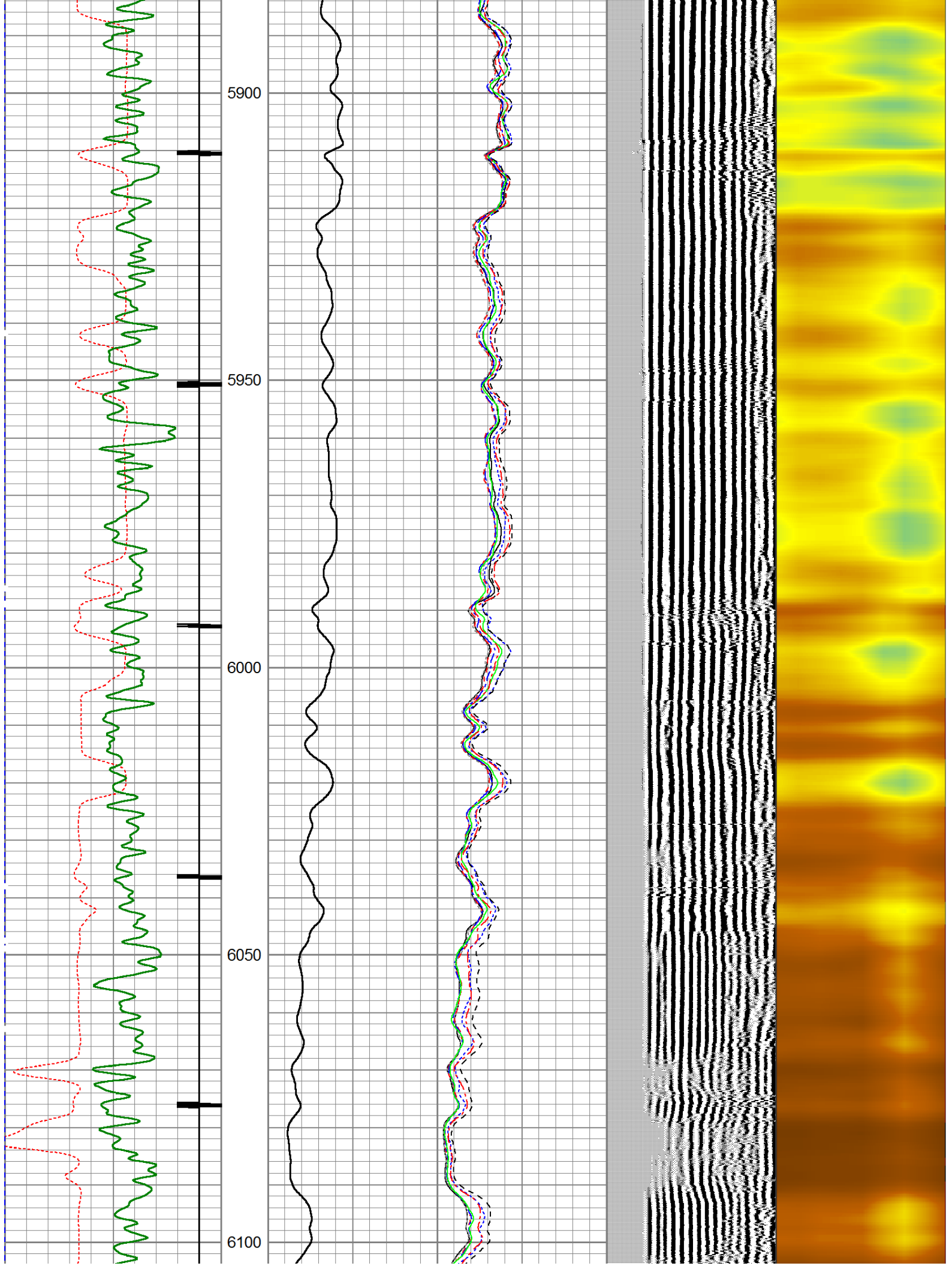


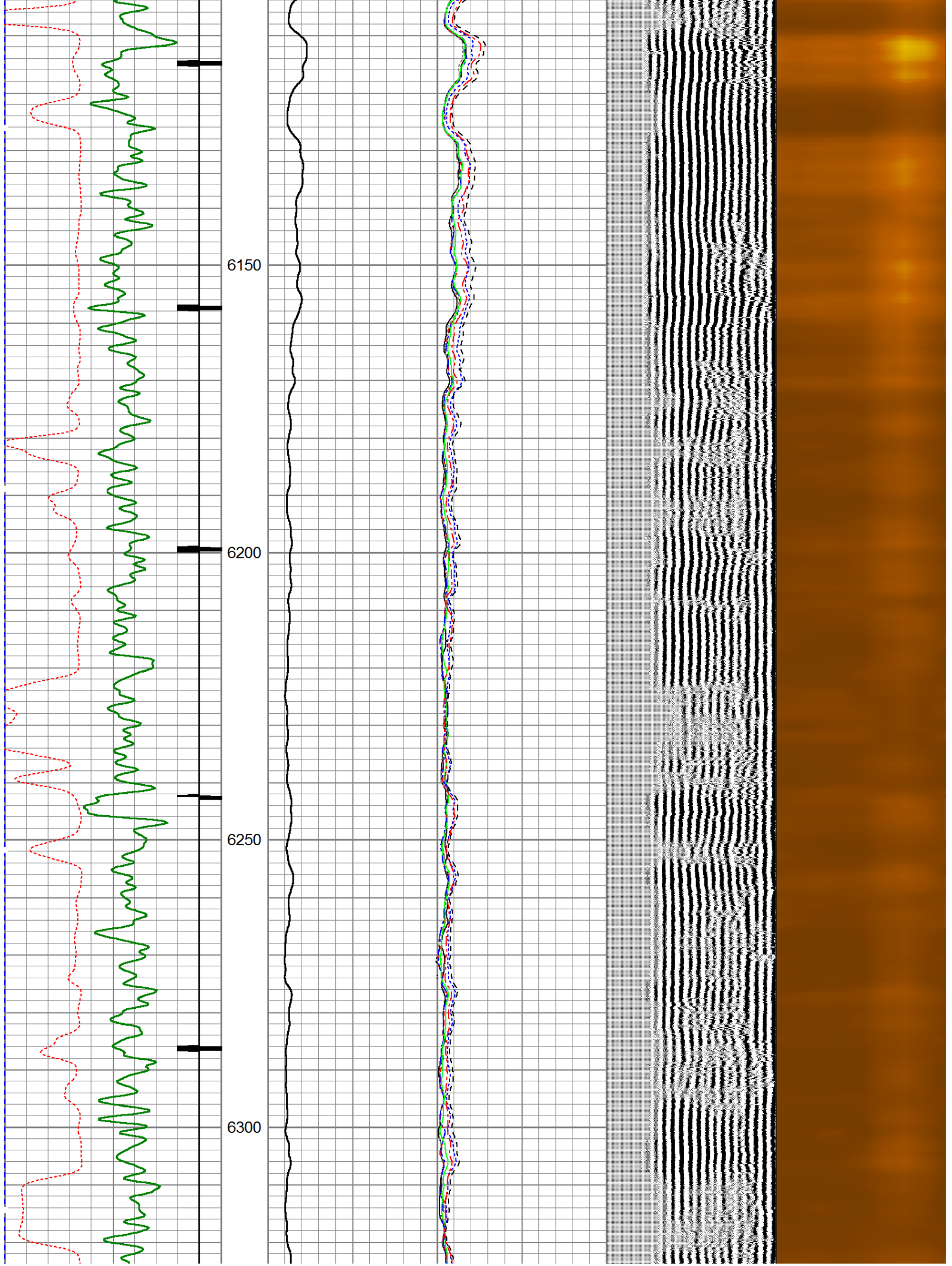


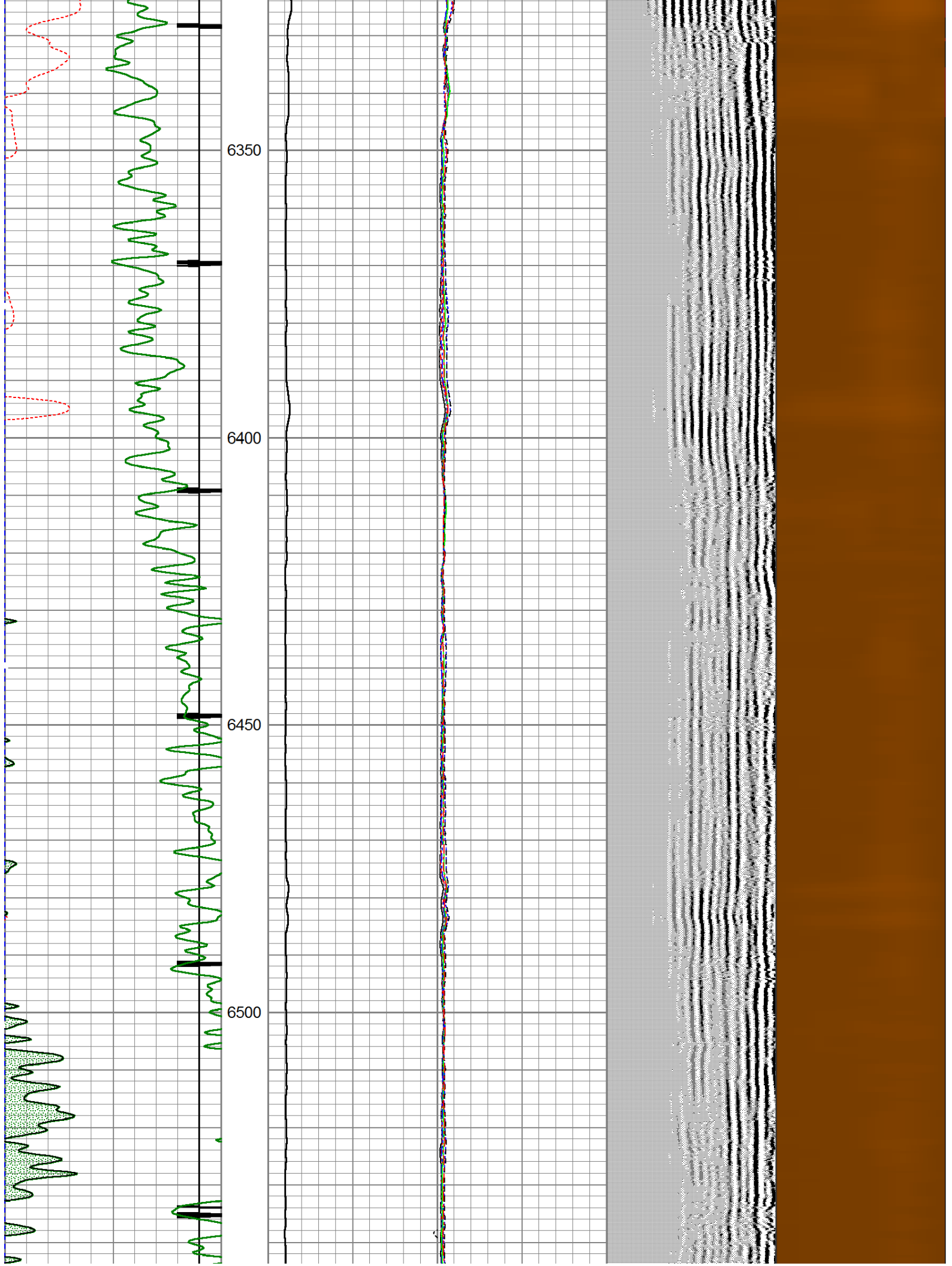


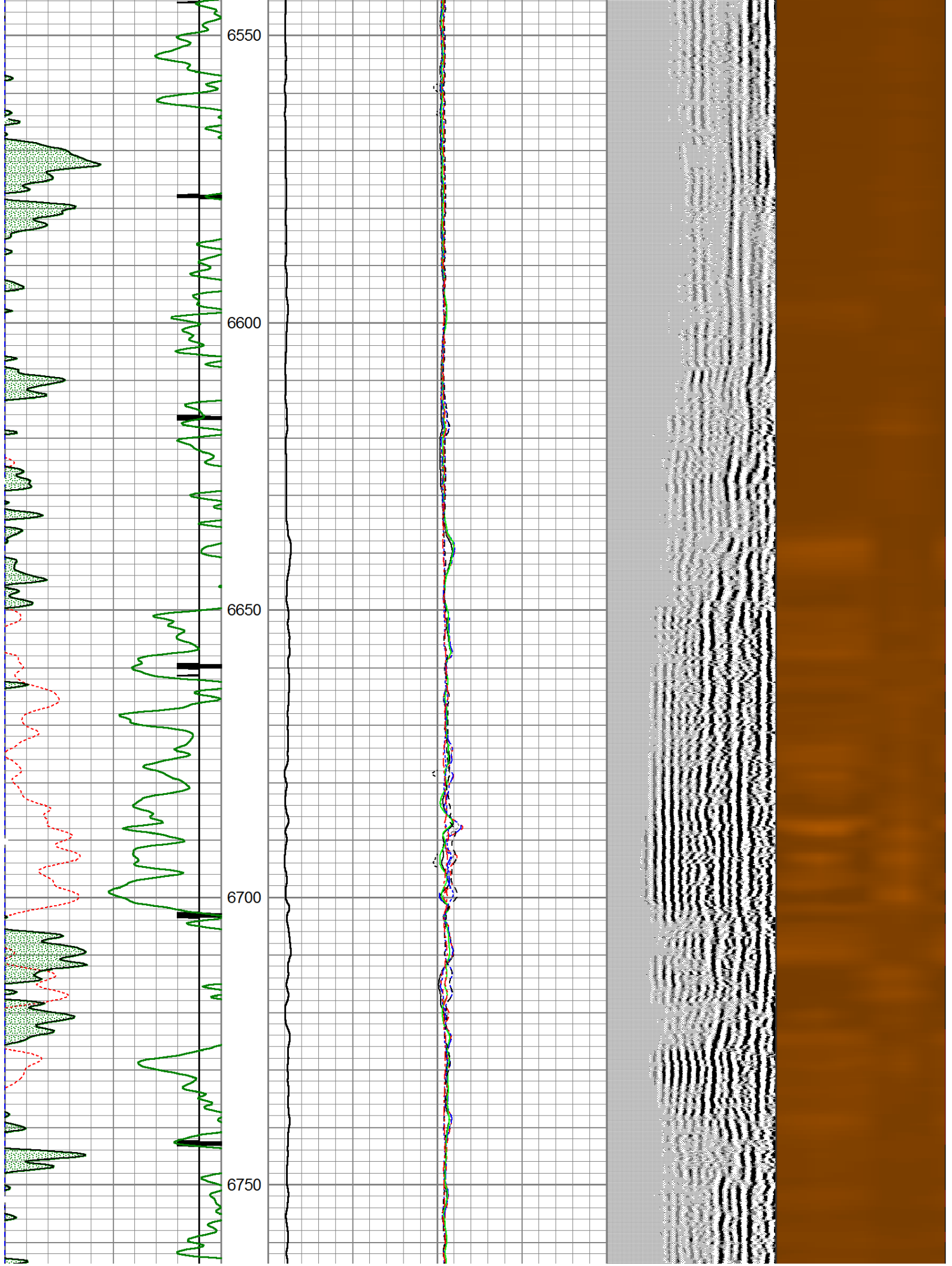


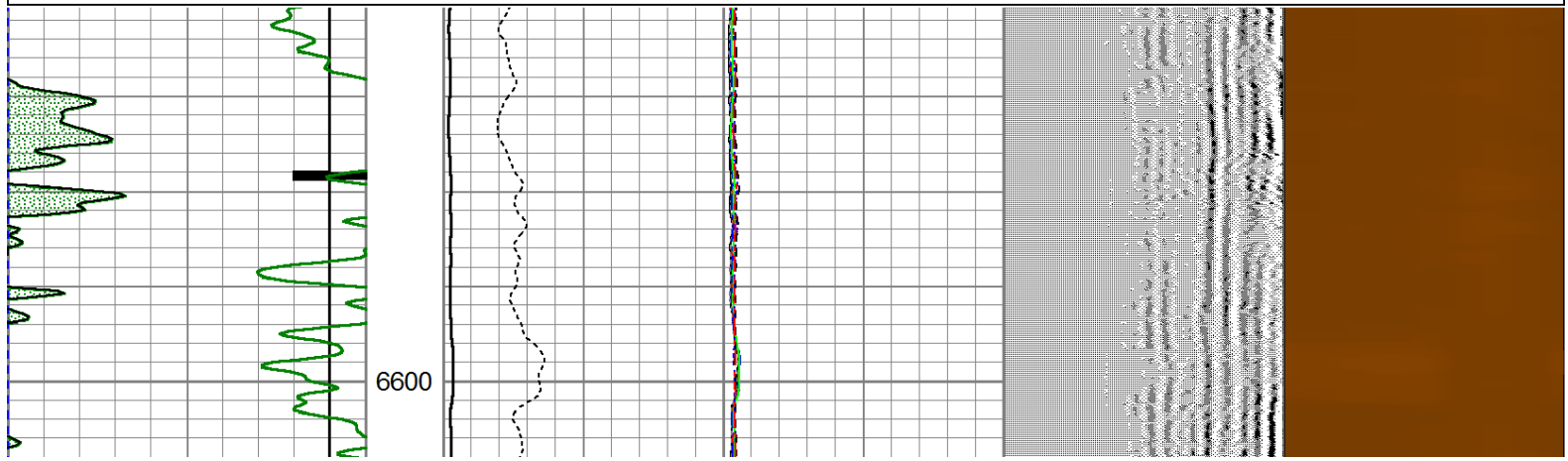
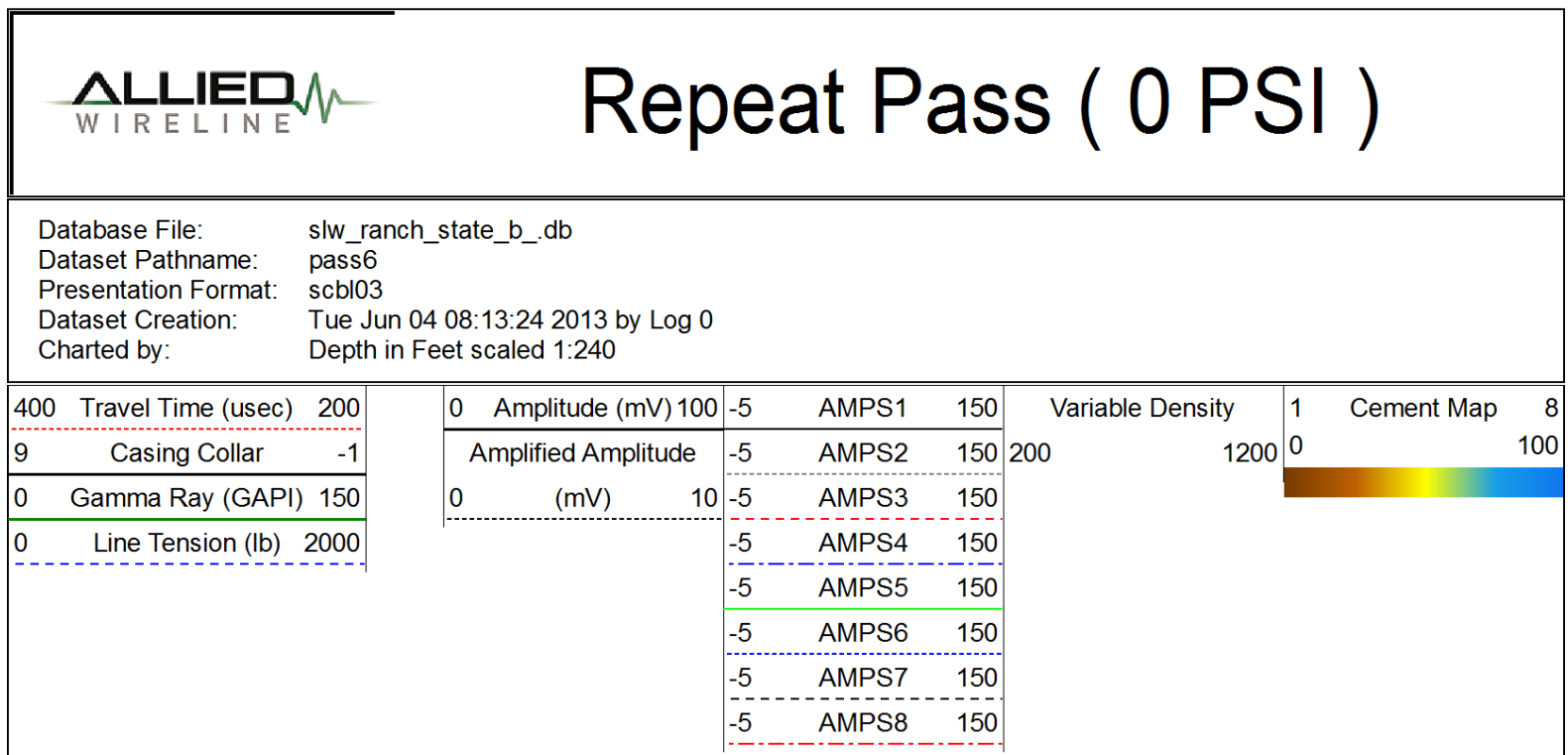
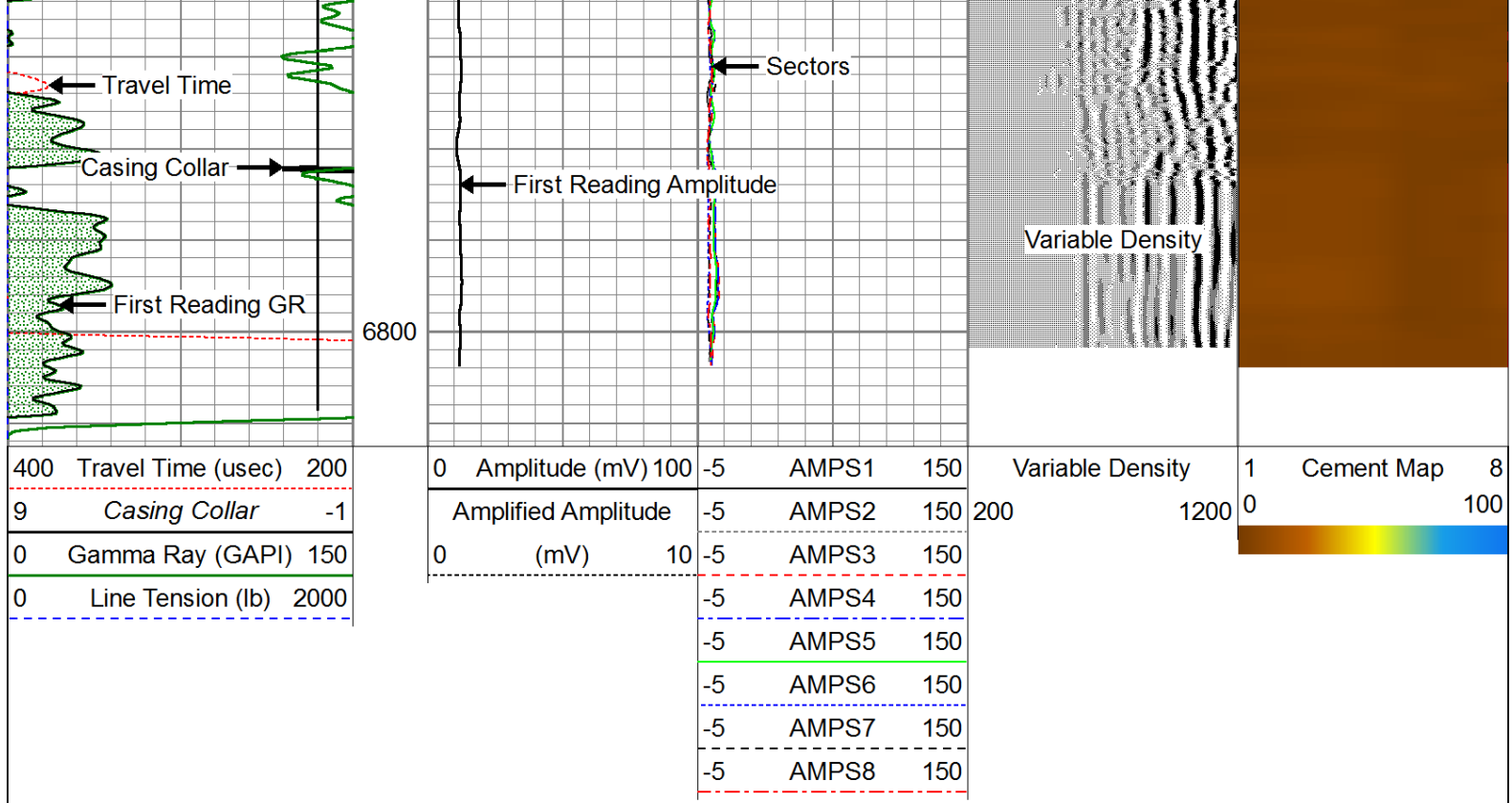


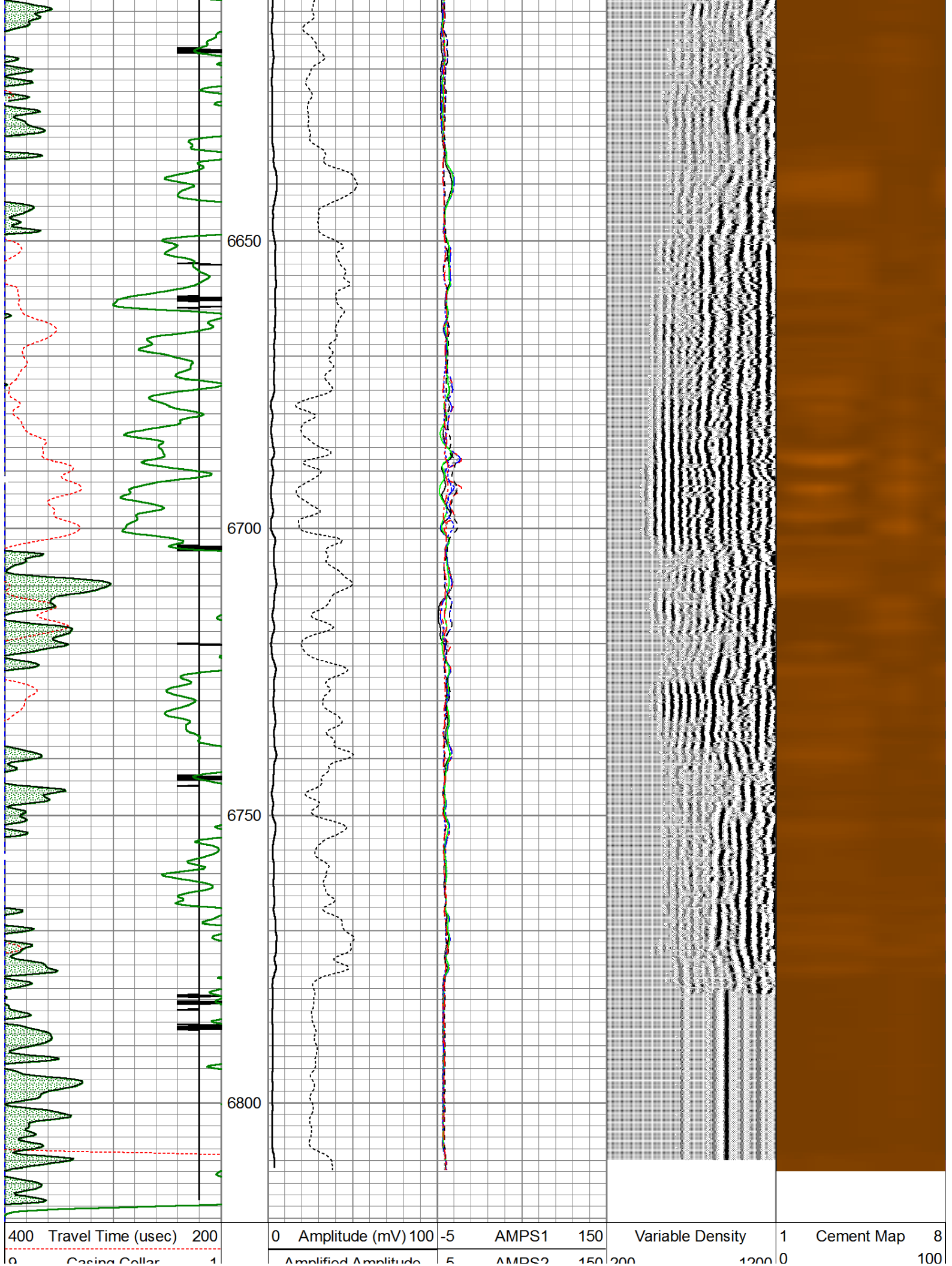




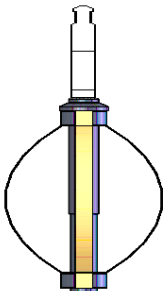
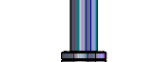

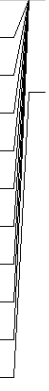
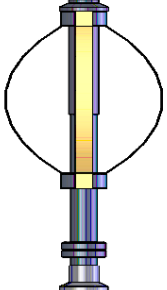


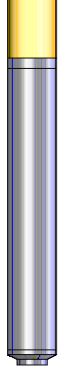






	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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
			RBT-Probe (101224) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVF3FT	11.84					
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 (110108-Dig) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
		Dataset: slw_ranch_state_b_.db: field/well/run1/pass8.2 Total Length: 20.28 ft Total Weight: 197.00 lb O.D.: 2.75 in				