



**RADIAL CEMENT BOND
VARIABLE DENSITY LOG
W/ GAMMA RAY / CCL**

Company NOBLE ENERGY INC.
Well WELLS RANCH USX AA 27-63-1HN
Field WATTENBERG
County WELD
State COLORADO

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Location: API # : 05.123.37136
150' FEL & 990' FSL
NWSW
Permanent Datum GL Elevation 4818'
Log Measured From KB
Drilling Measured From KB
Other Services
SEC 27 TWP 6N RGE 63W
Elevation
K.B. 4842'
D.F. 4842'
G.L. 4818'

Date 9.7.13

Run Number	ONE
Depth Driller	11,406'
Depth Logger	6854'
Bottom Logged Interval	6854'
Top Log Interval	700'
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	240
Estimated Cement Top	1146'
Time Well Ready	PM
Time Logger on Bottom	17:00
Equipment Number	130-33CH
Location	BRIGHTON
Recorded By	LEROY HOBBS
Witnessed By	BILL MANSFIELD

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	36	SURFACE	625.5'
Prot. String				
Production String	7"	26	SURFACE	6970.8"
Liner	4-1/2"	11.6	6872"	11391'

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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

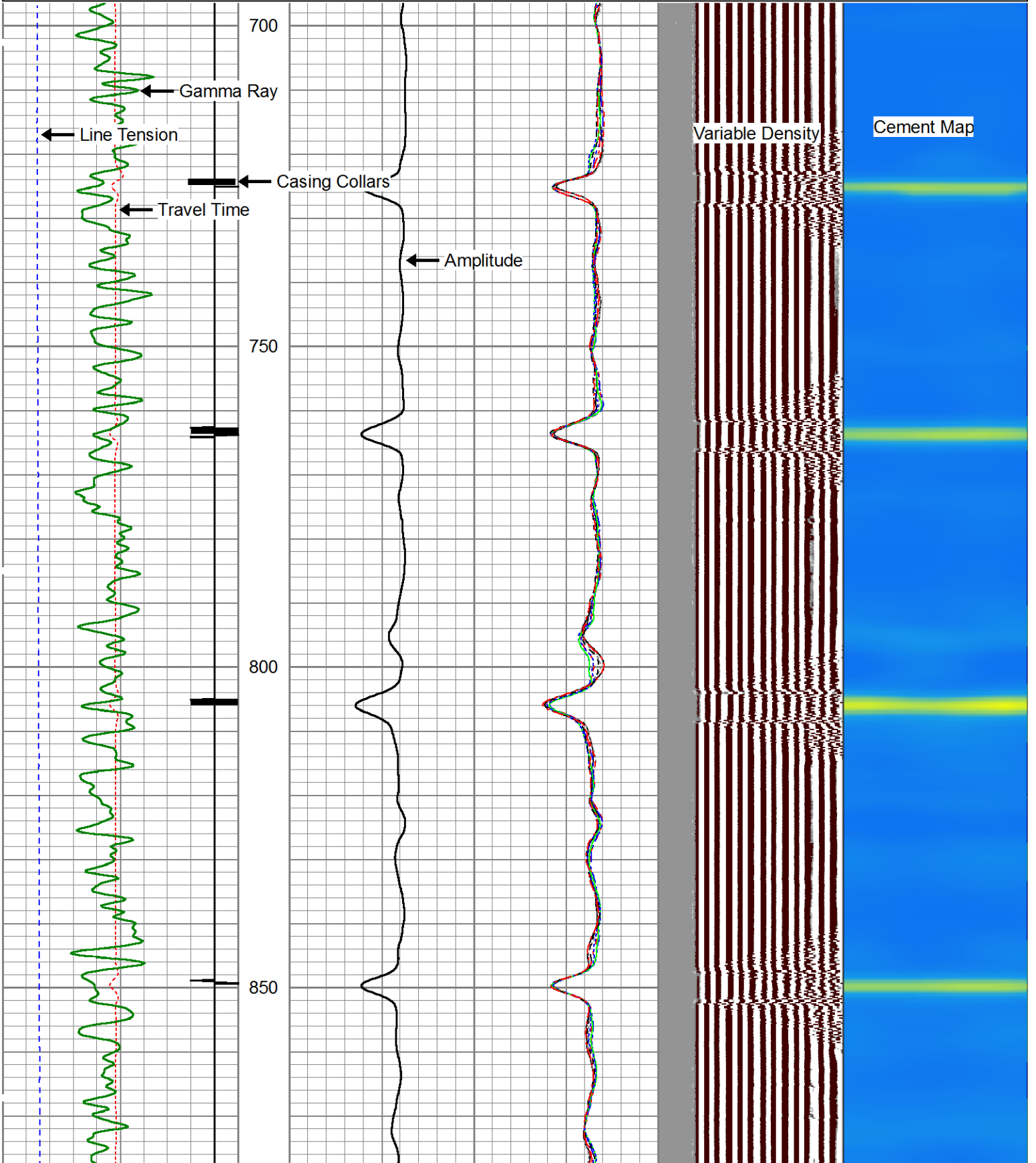
WELL LOGGED WITH 24' KB.
THANK YOU FOR USING ALLIED WIRELINE.

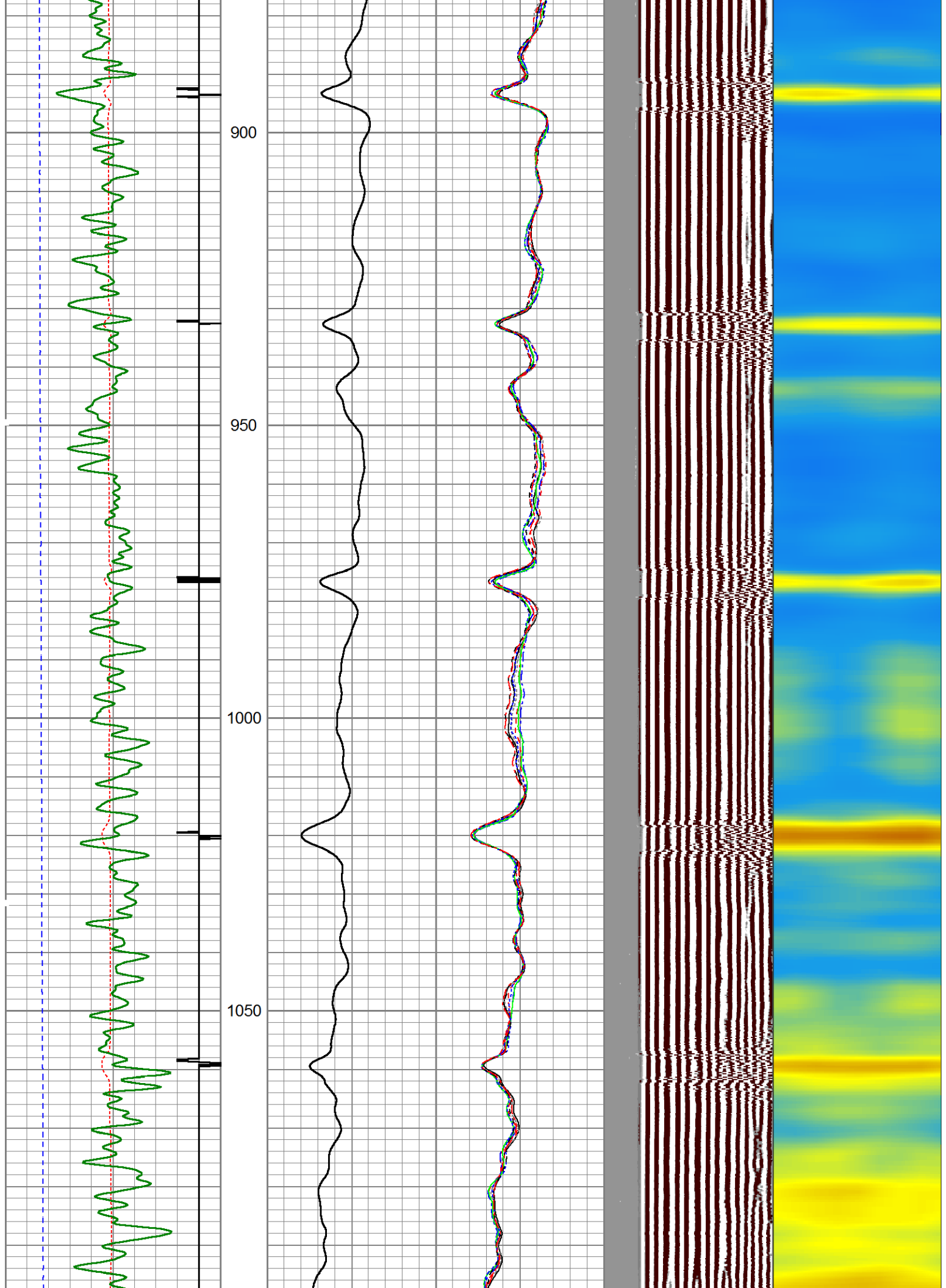
Database File: c:\users\engineers\desktop\brtn logs\noble\wells ranch usx aa 27-63-1hn\wellsranchusxaa27-63-1hn.db
Dataset Pathname: pass2
Presentation Format: scbl03
Dataset Creation: Sat Sep 07 17:00:33 2013 by Log 0
Charted by: Depth in Feet scaled 1:240

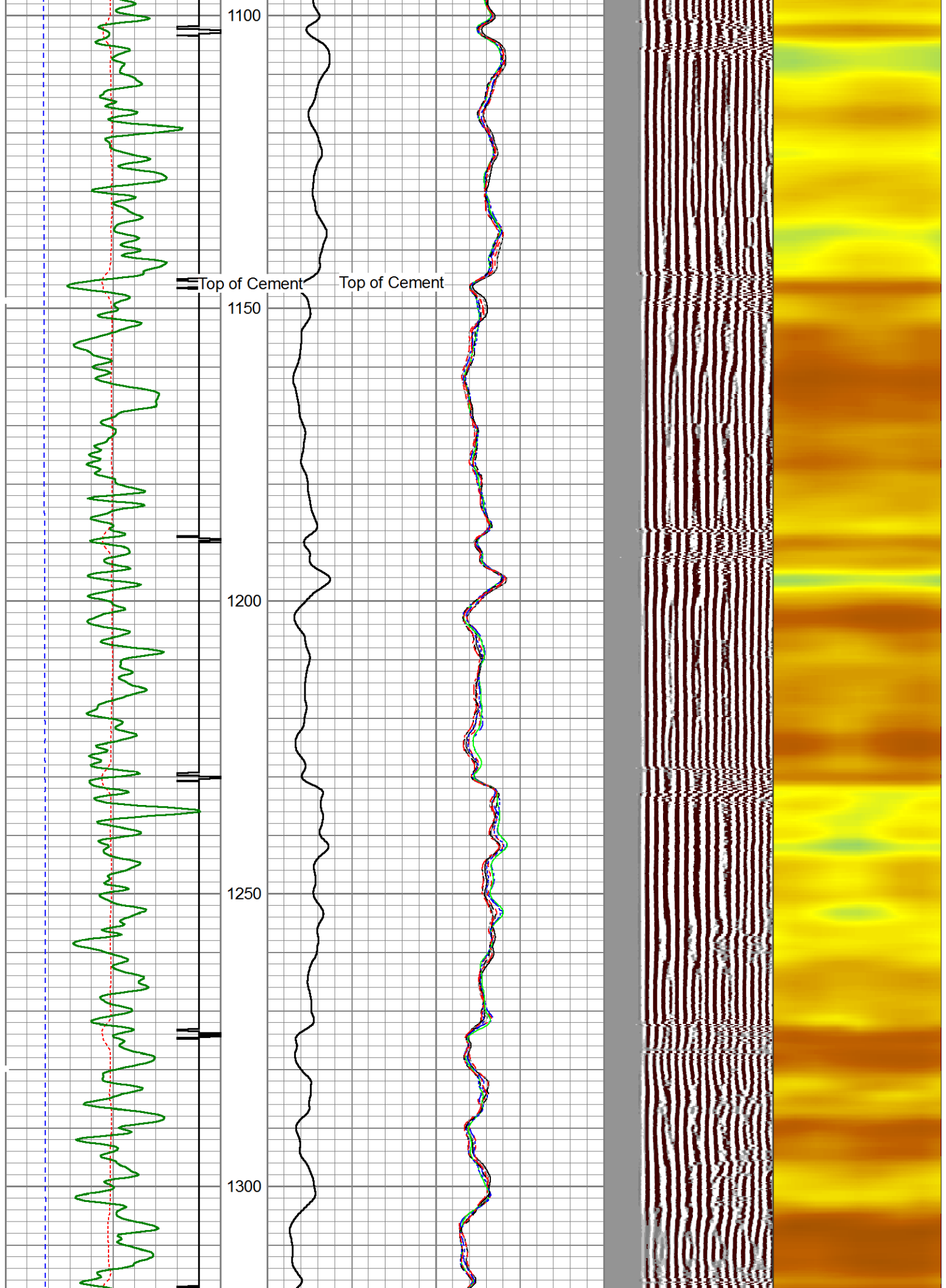
400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	2000

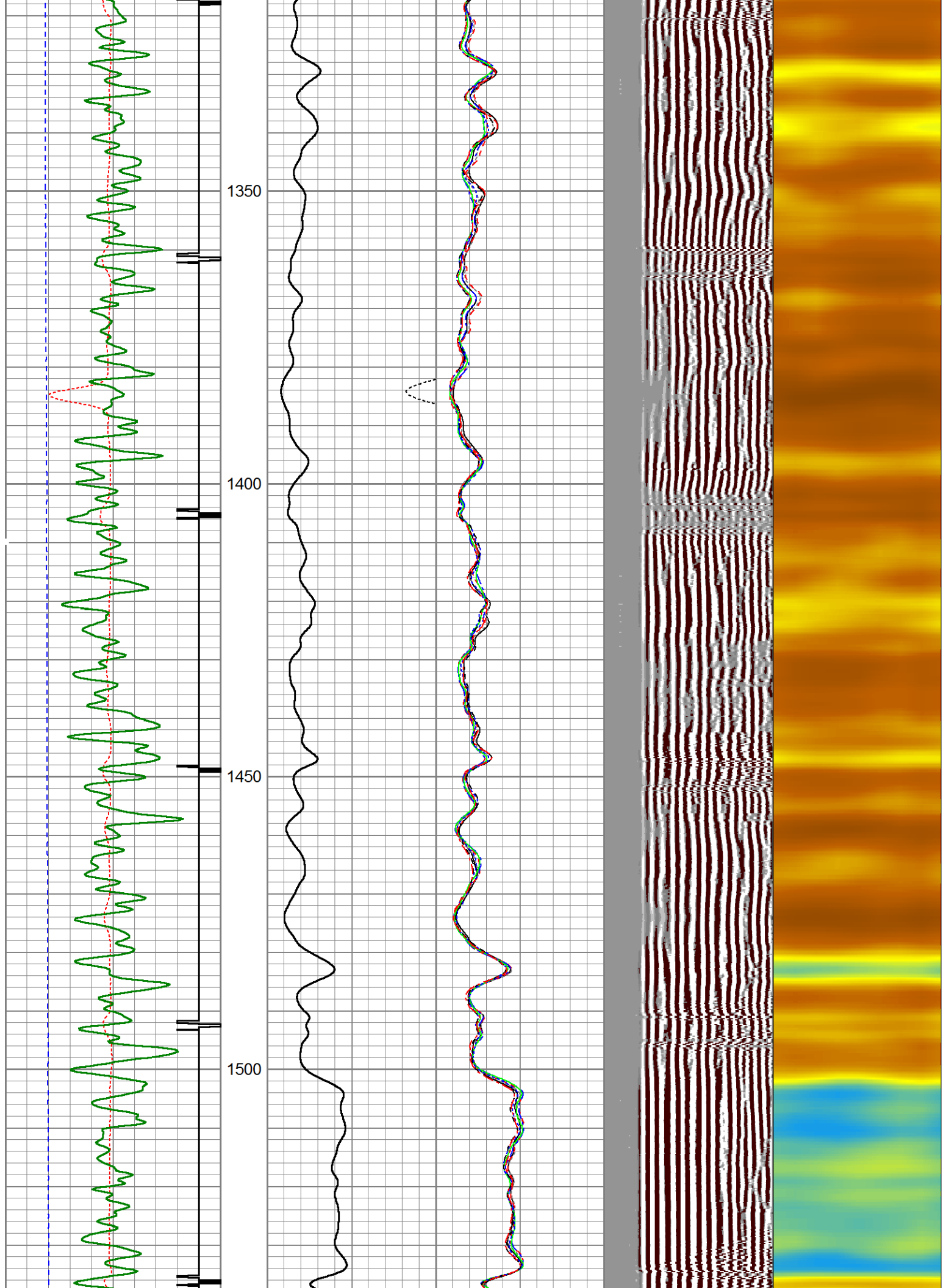
0	Amplitude (mV)	100
Amplified Amplitude		
0	(mV)	10
-5	AMPS1	150
-5	AMPS2	150
-5	AMPS3	150
-5	AMPS4	150
-5	AMPS5	150
-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150

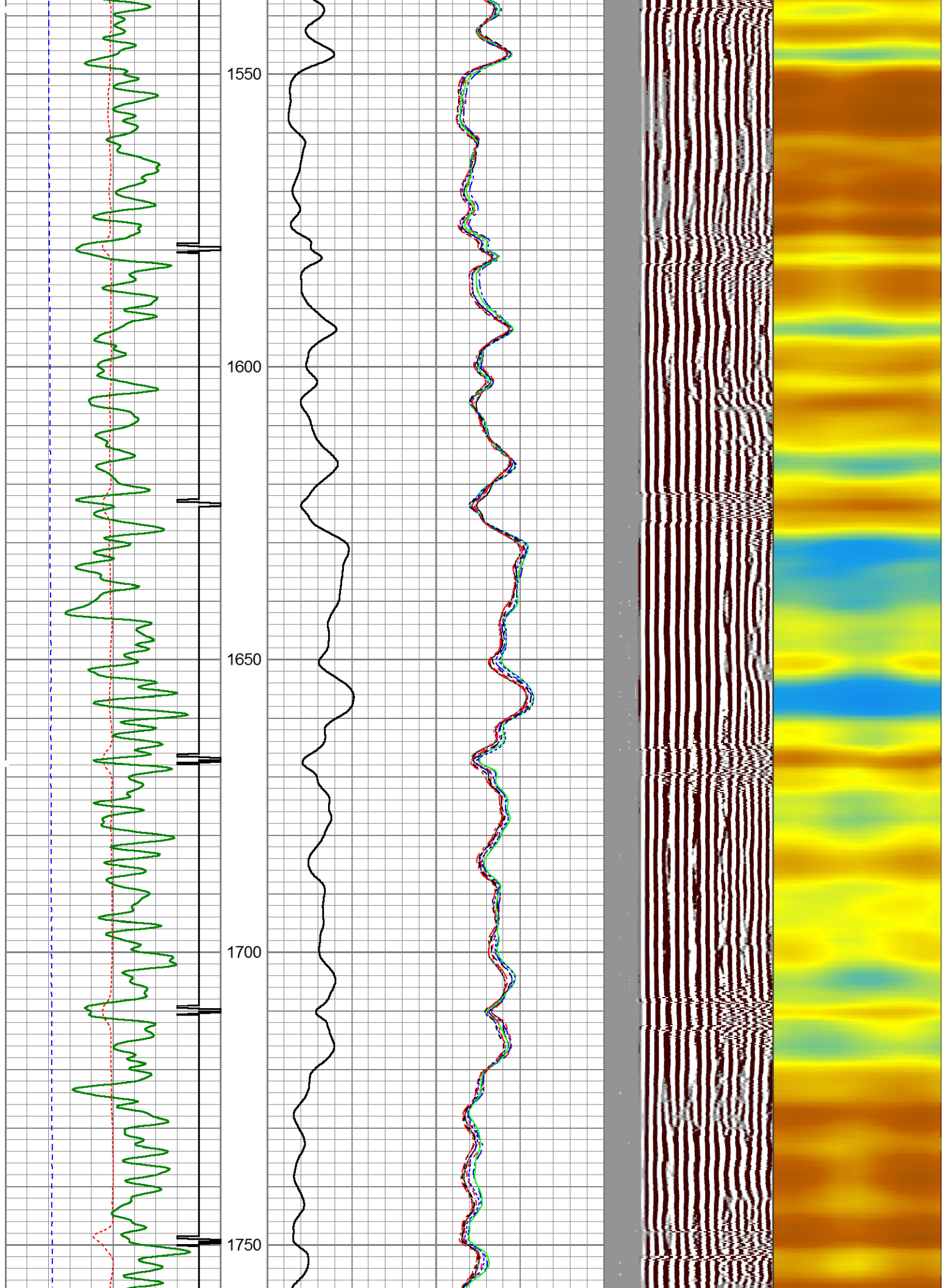
Variable Density	1	Cement Map	8
	200		1200
	0		100

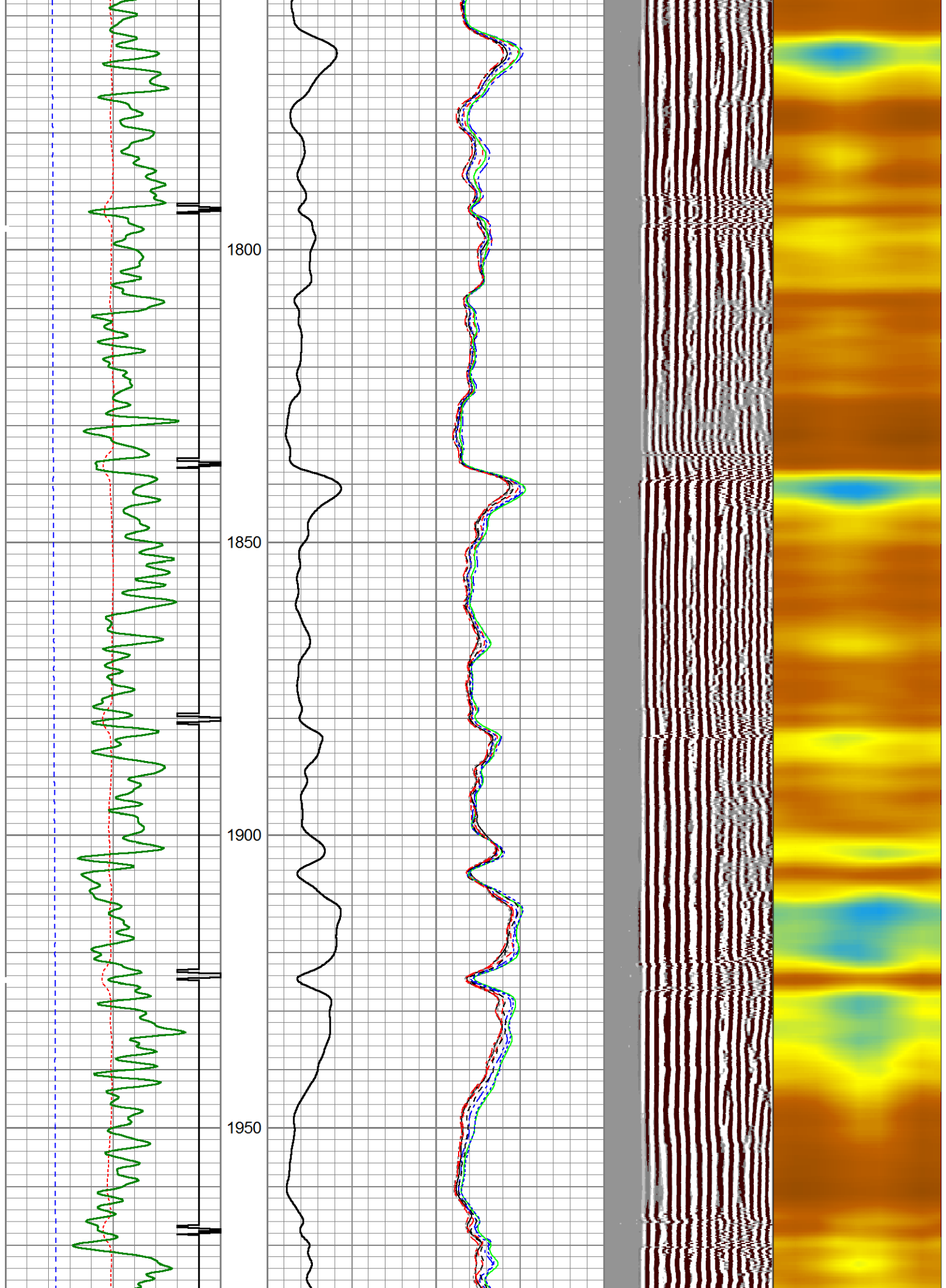


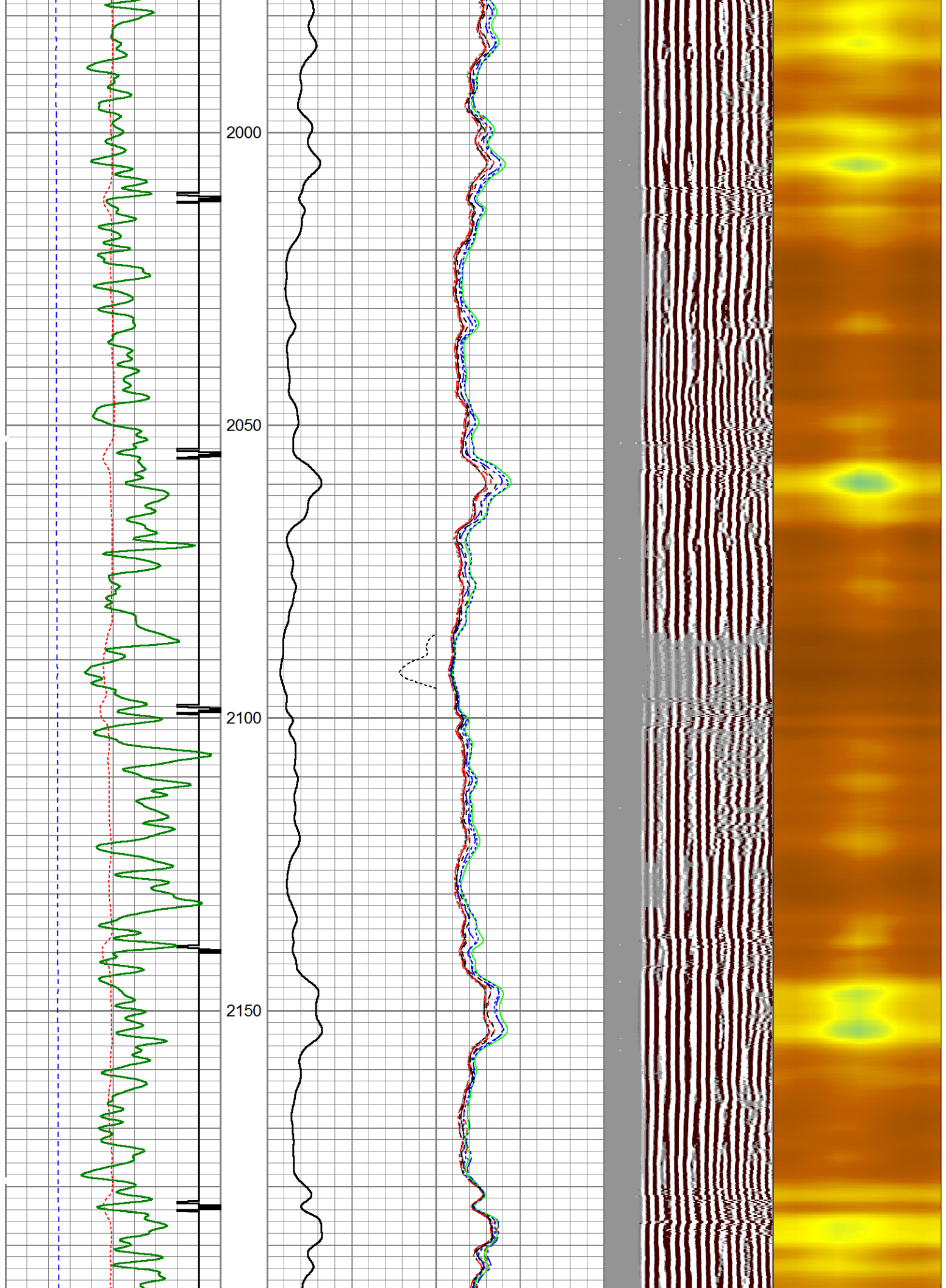


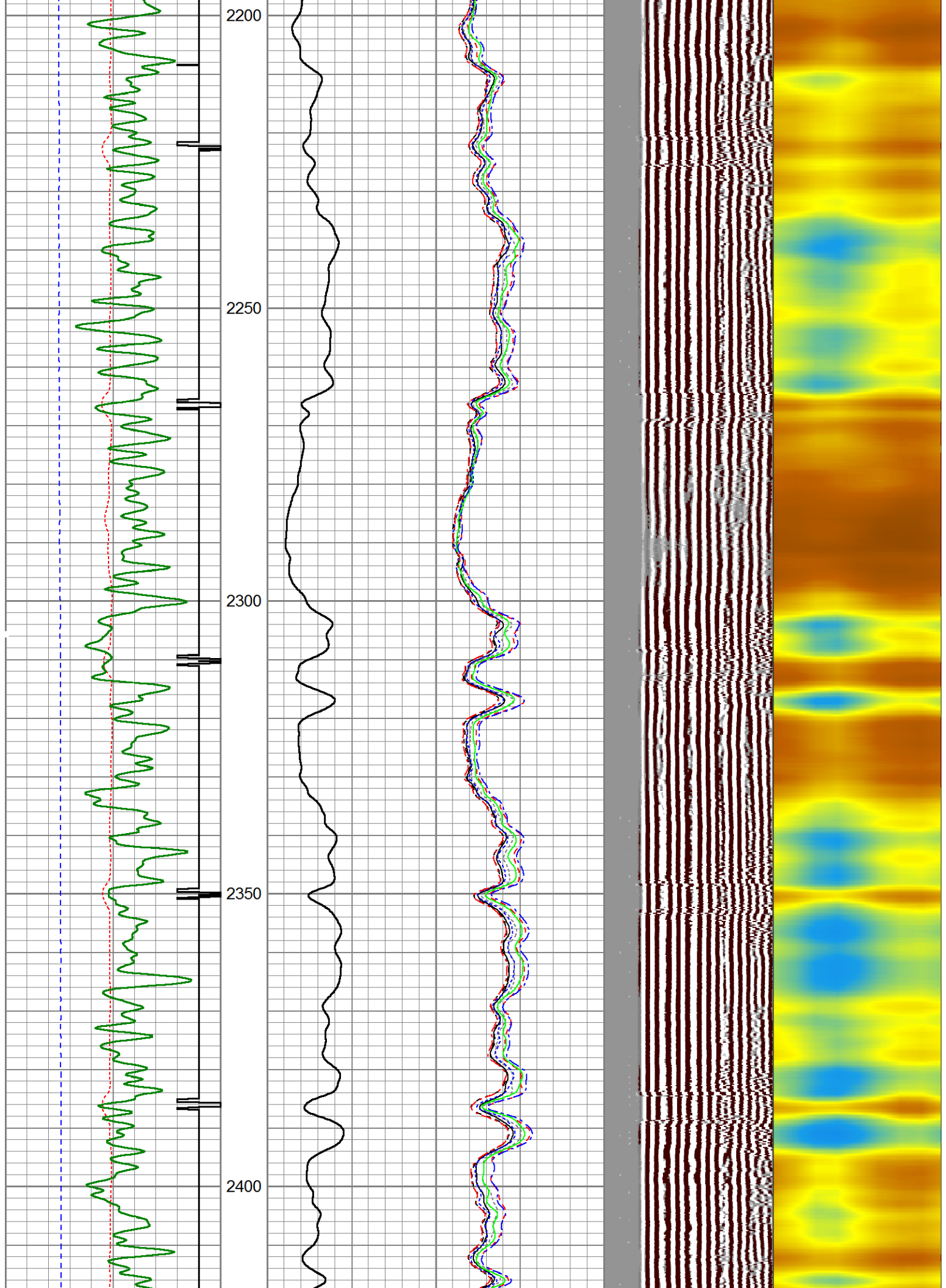


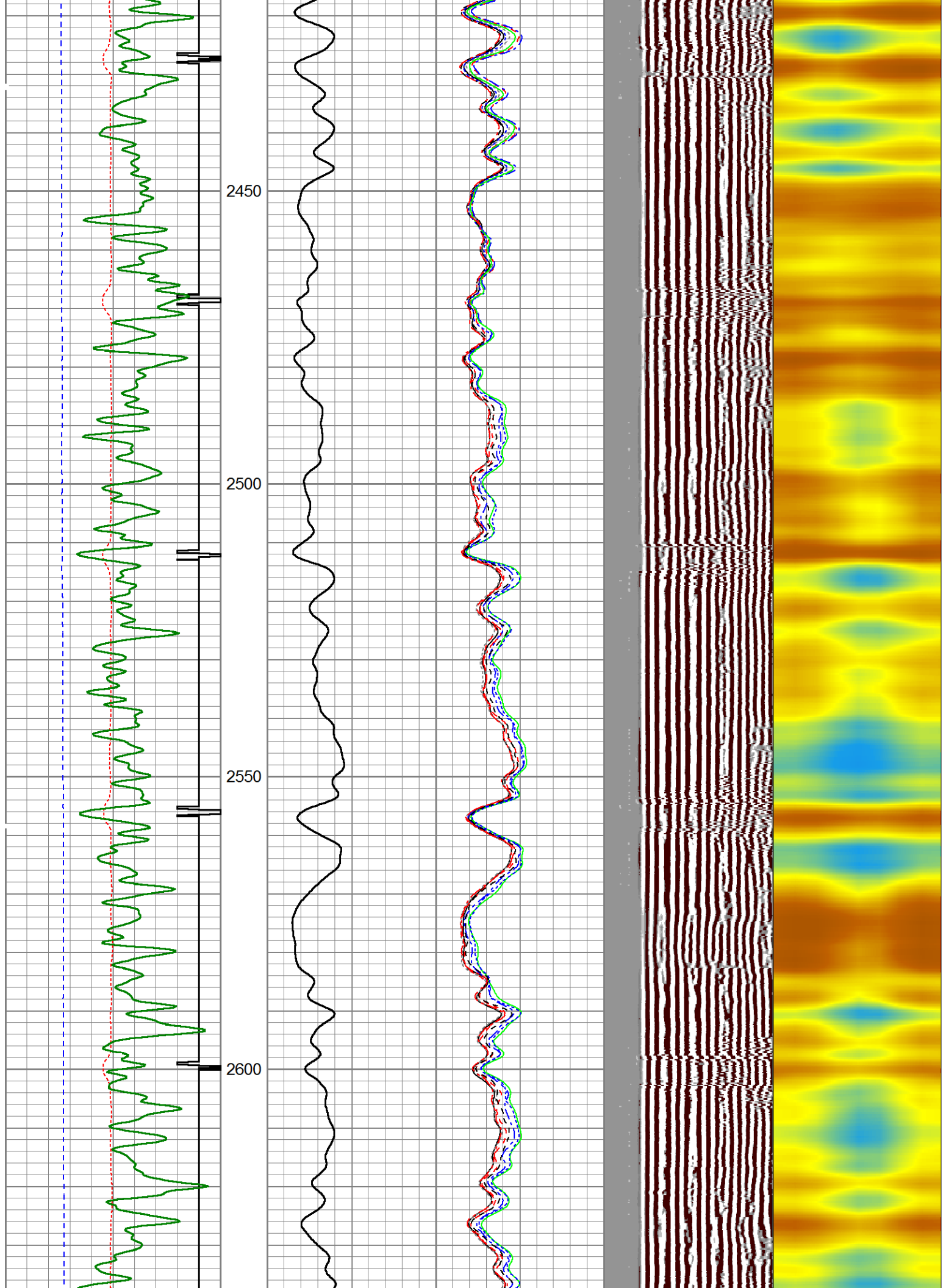


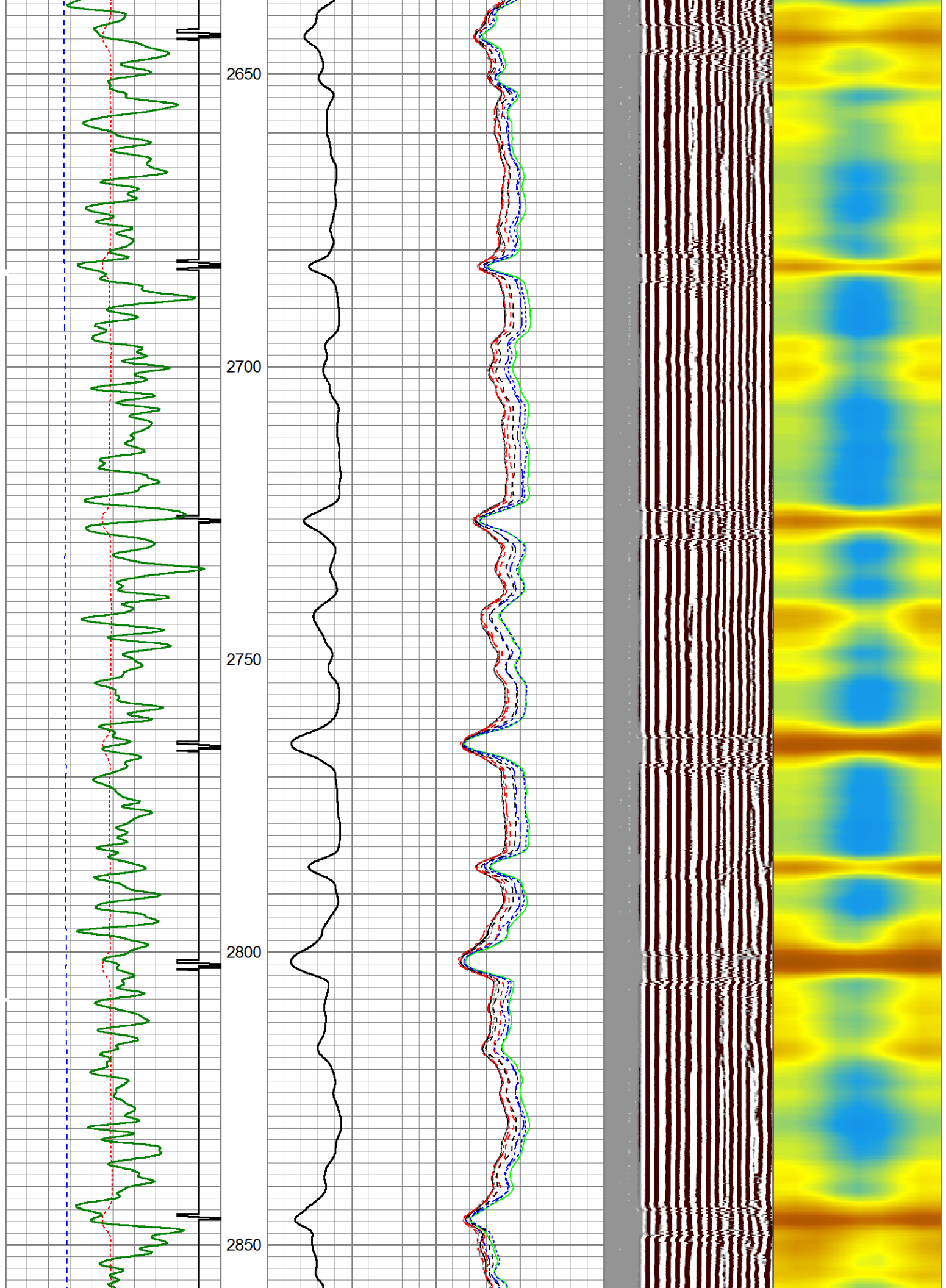


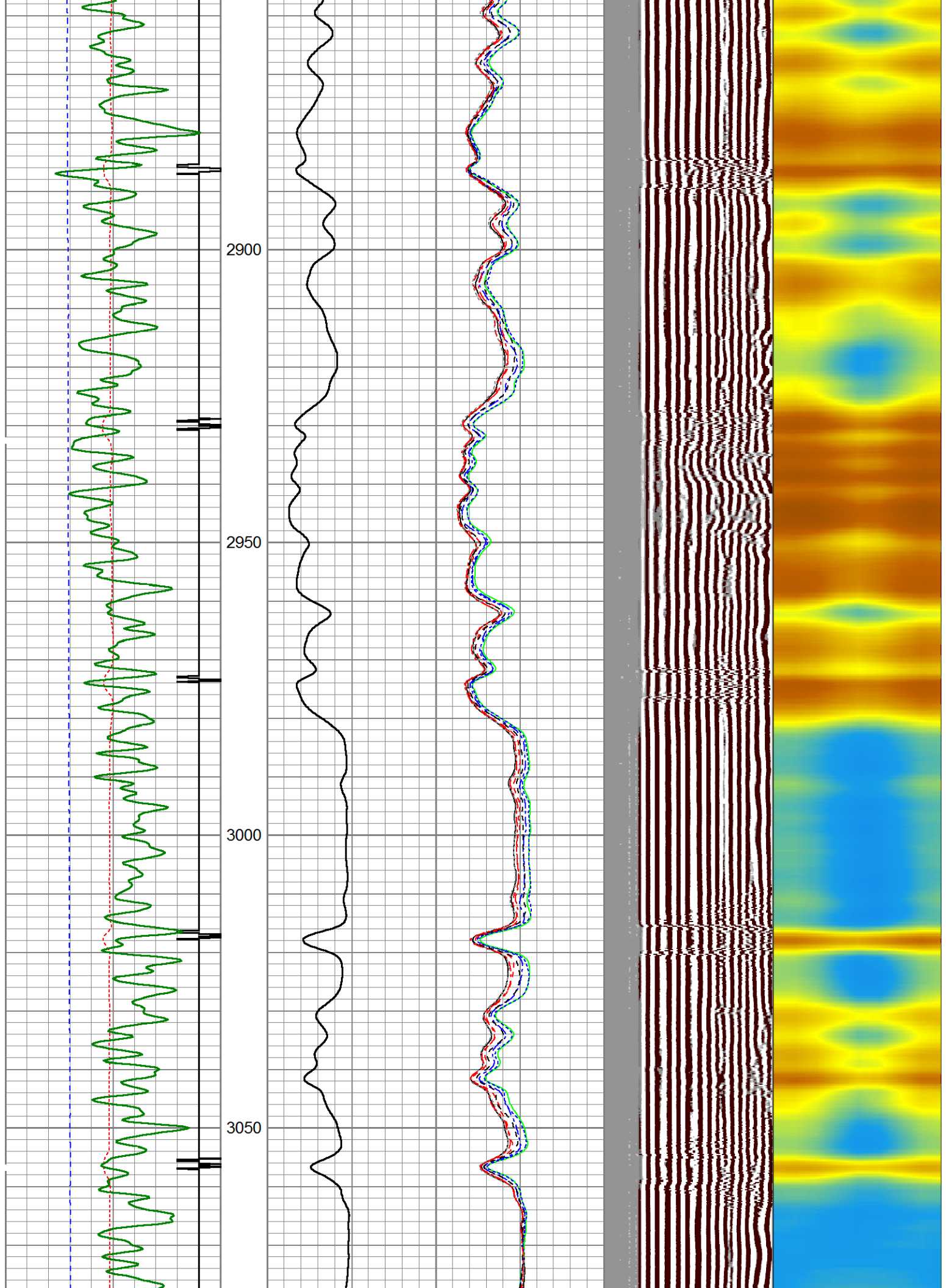


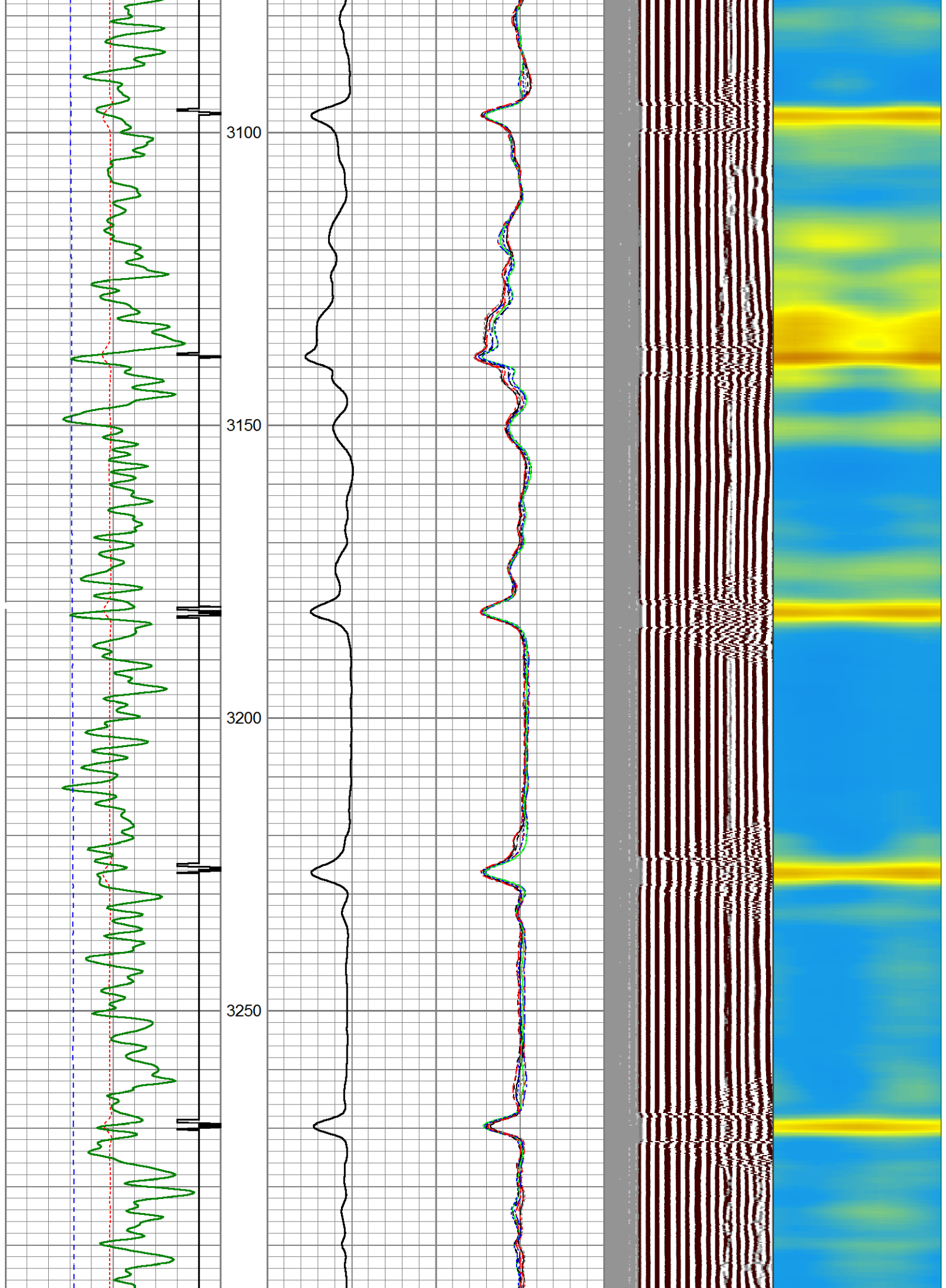


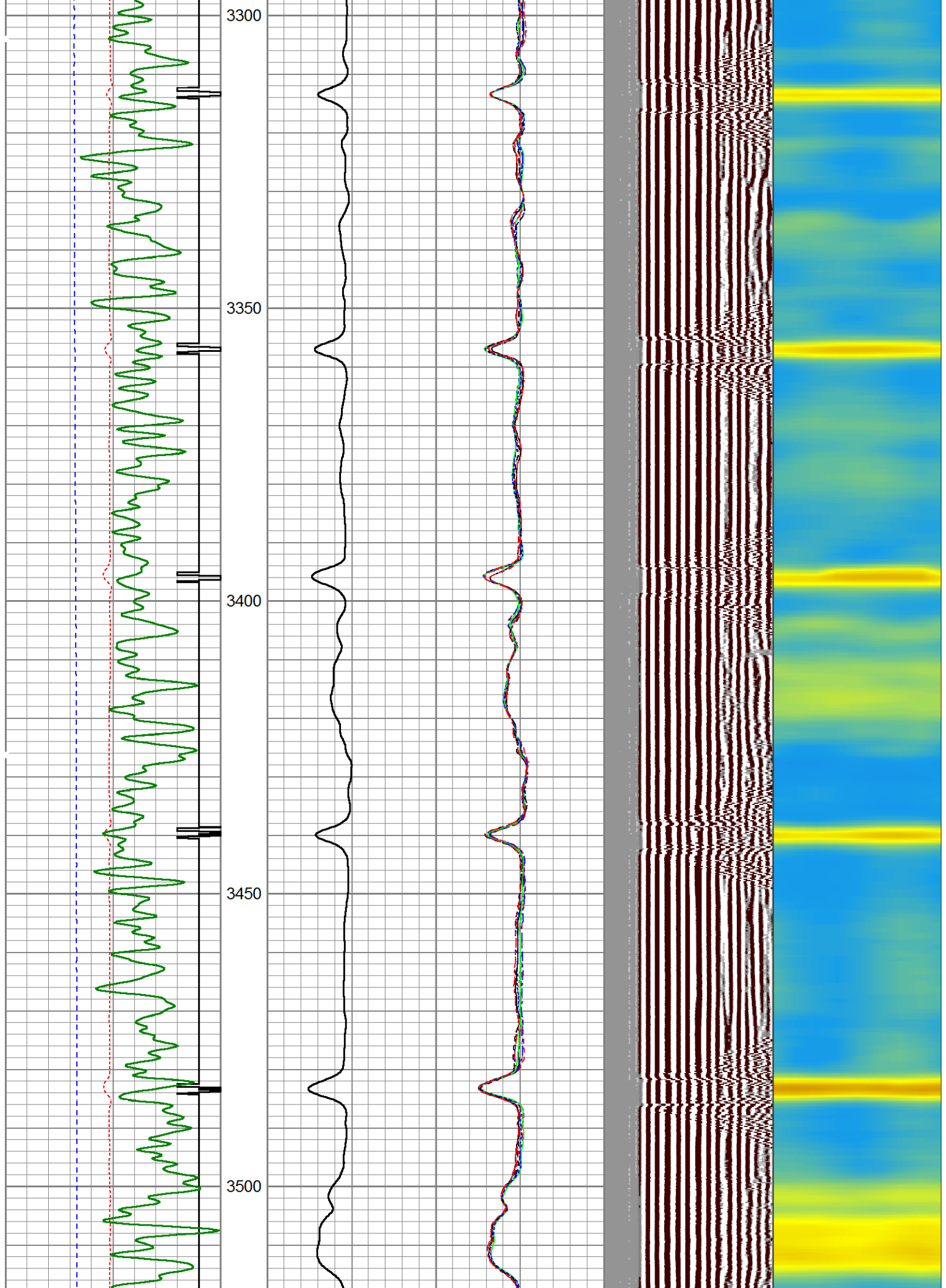


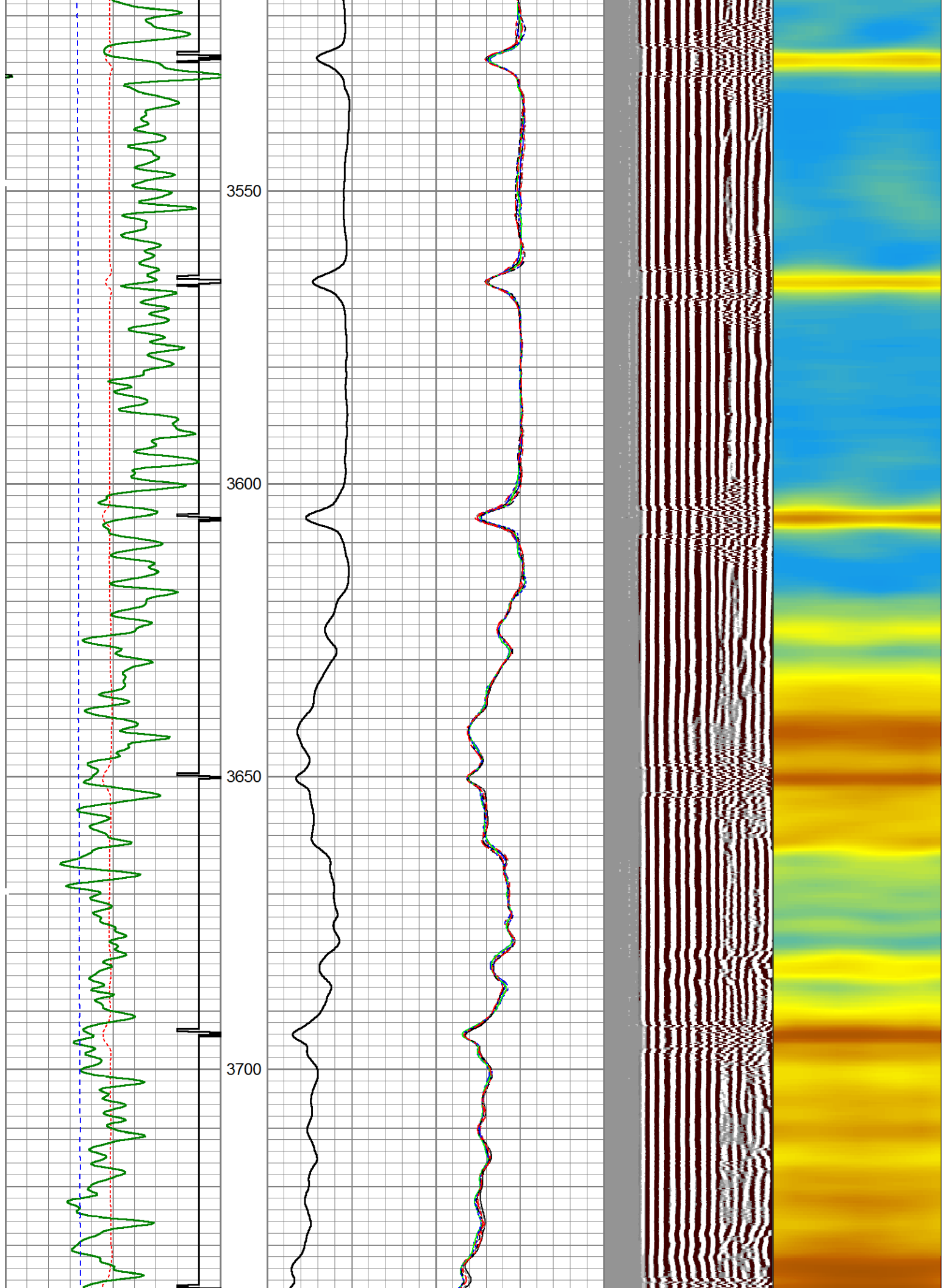


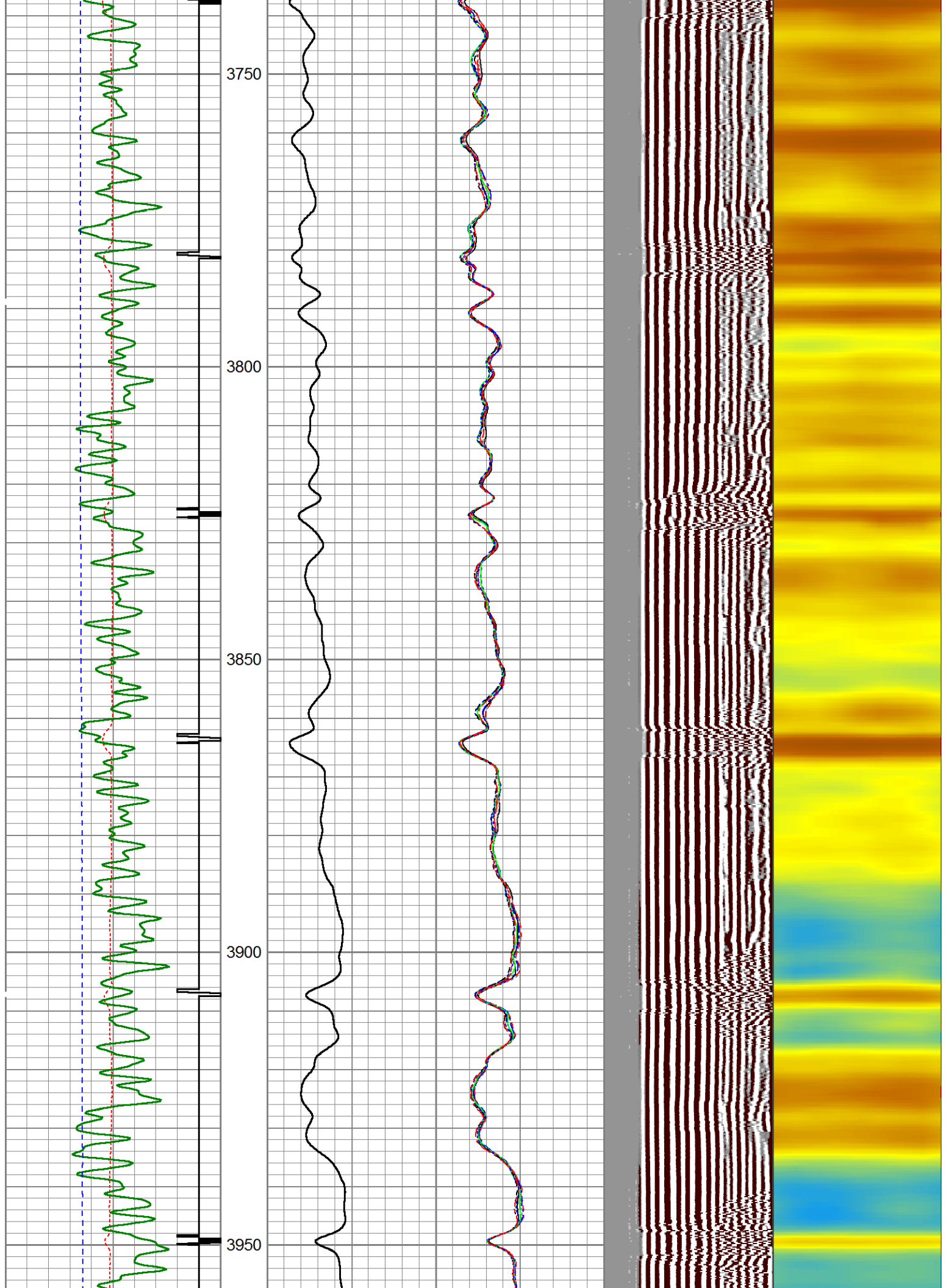


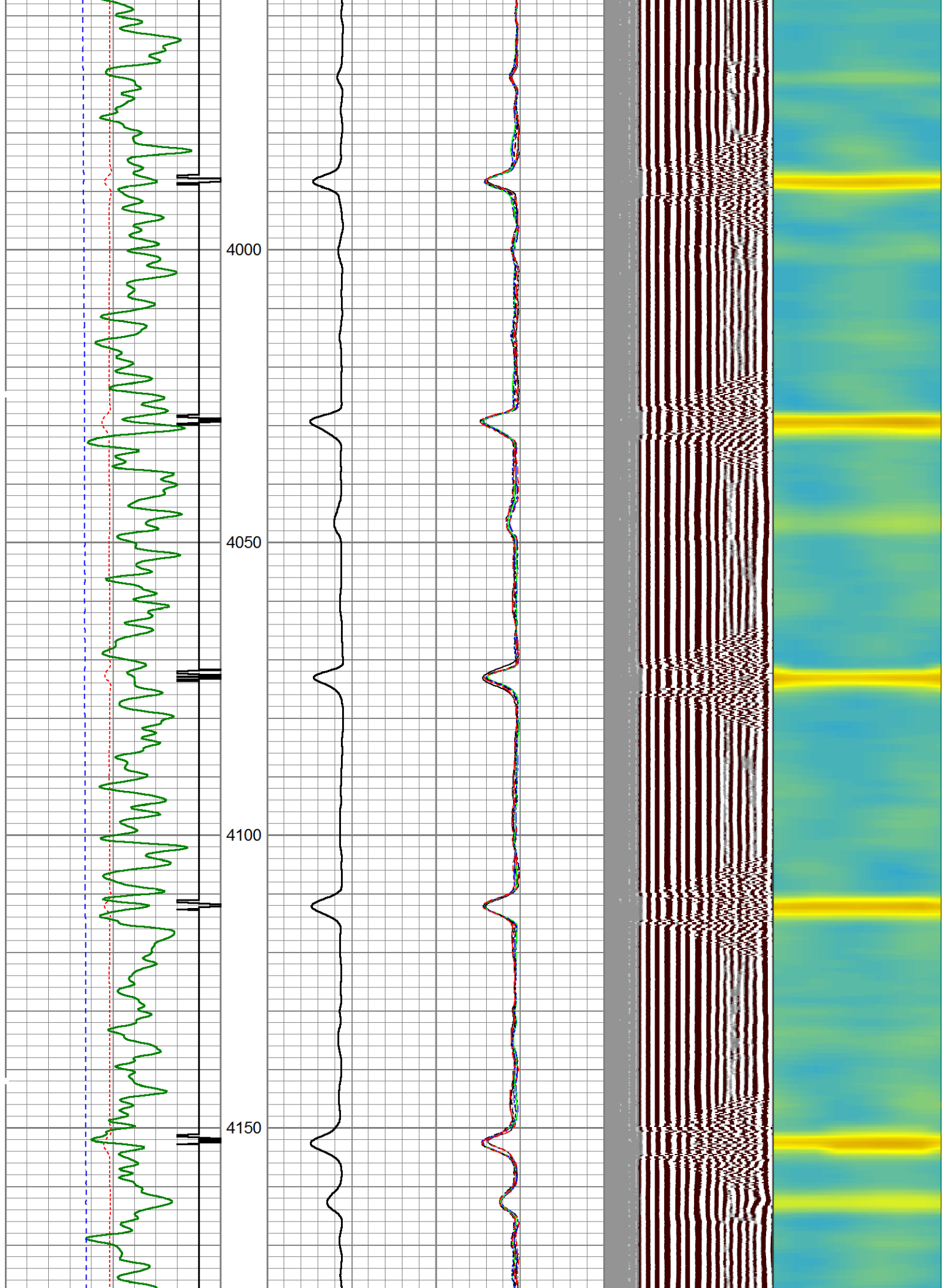


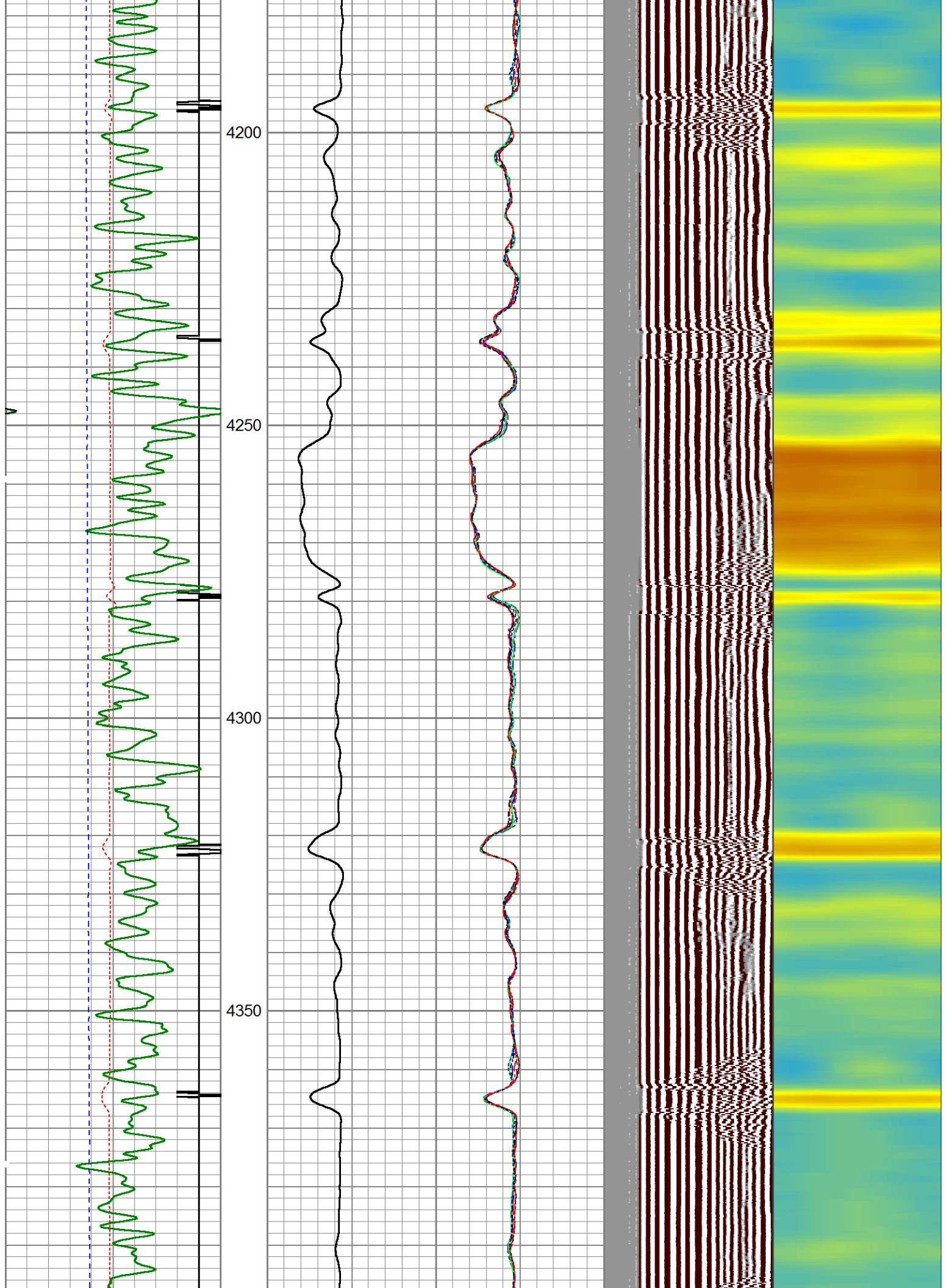


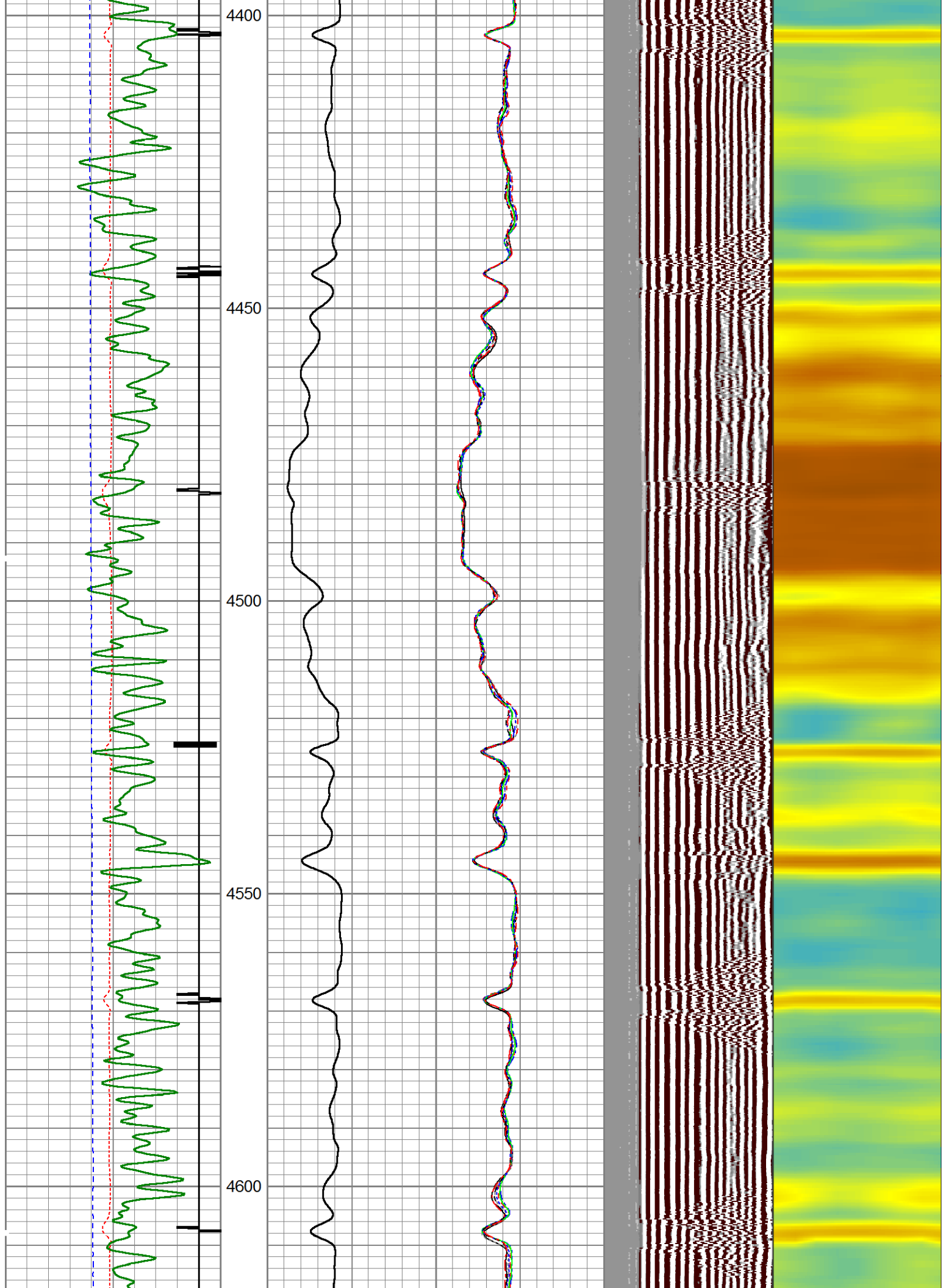


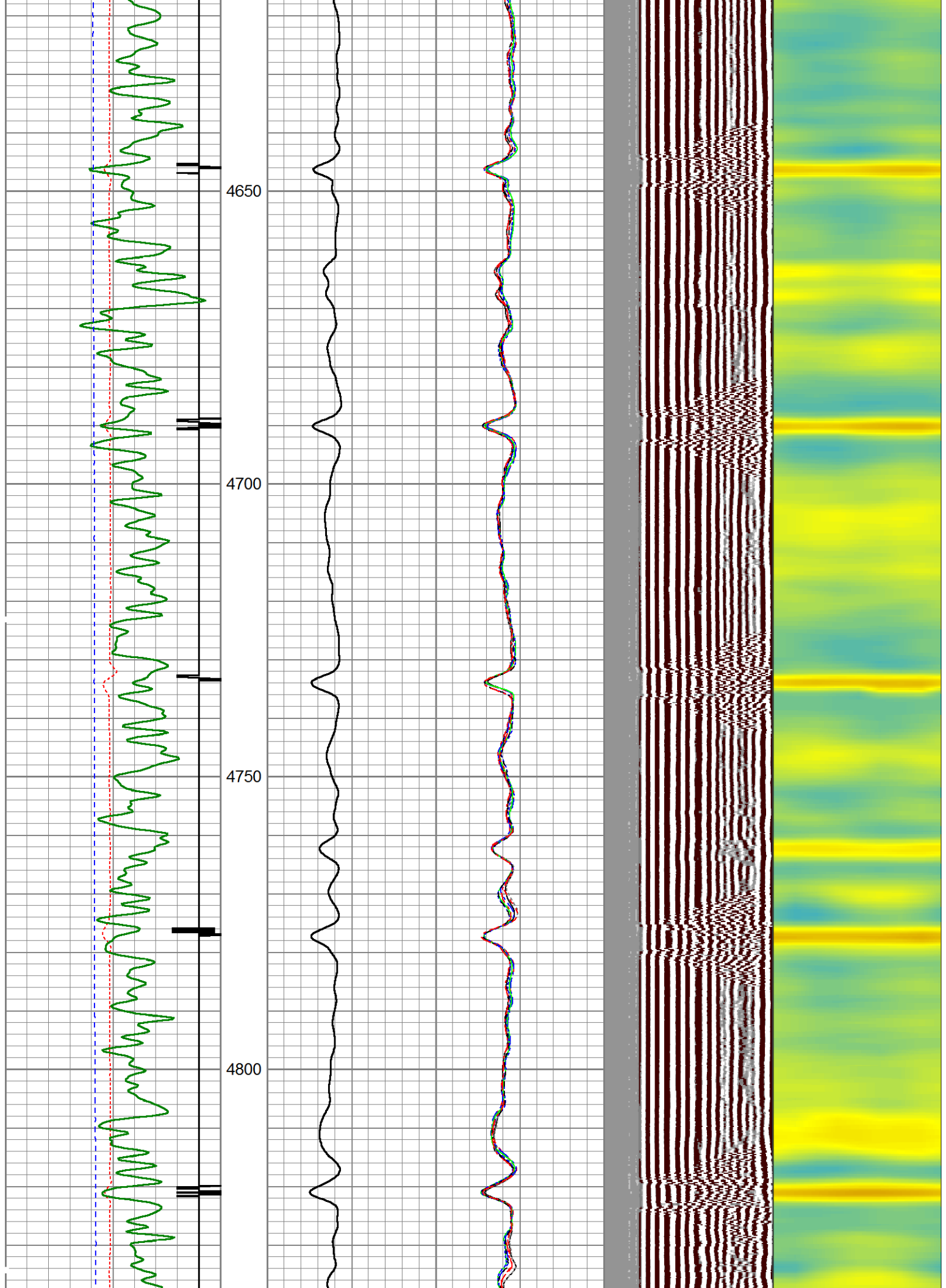


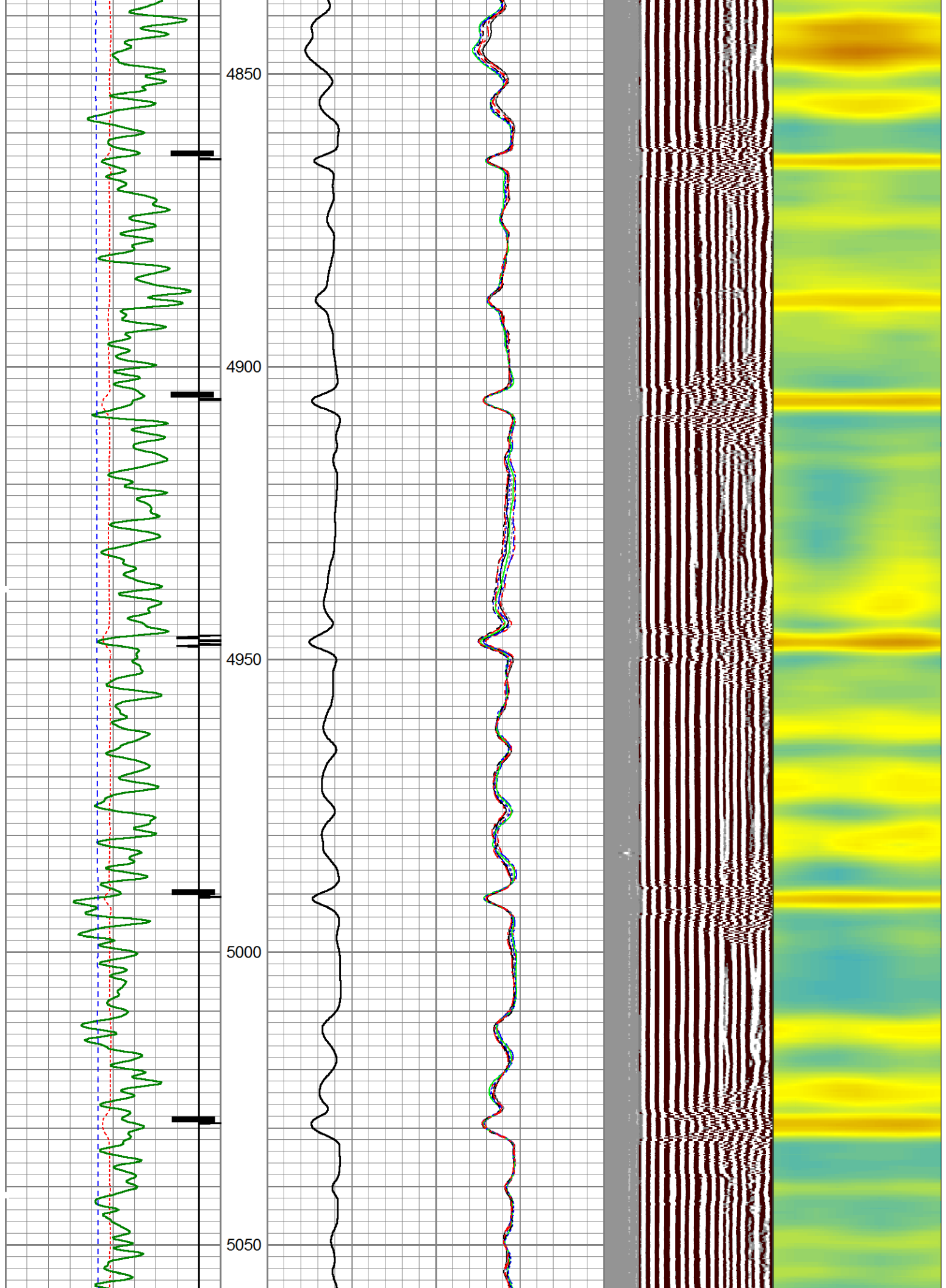


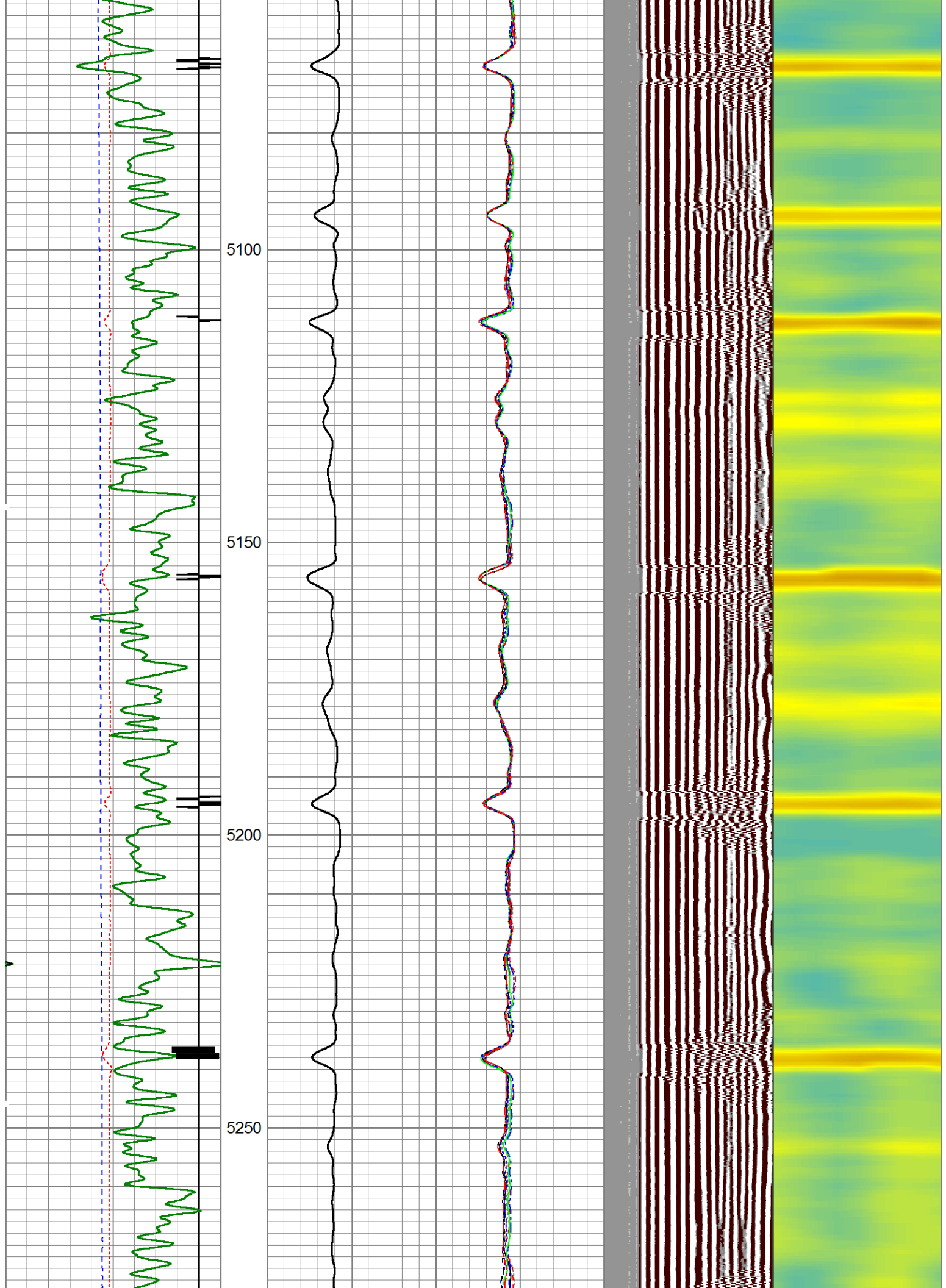


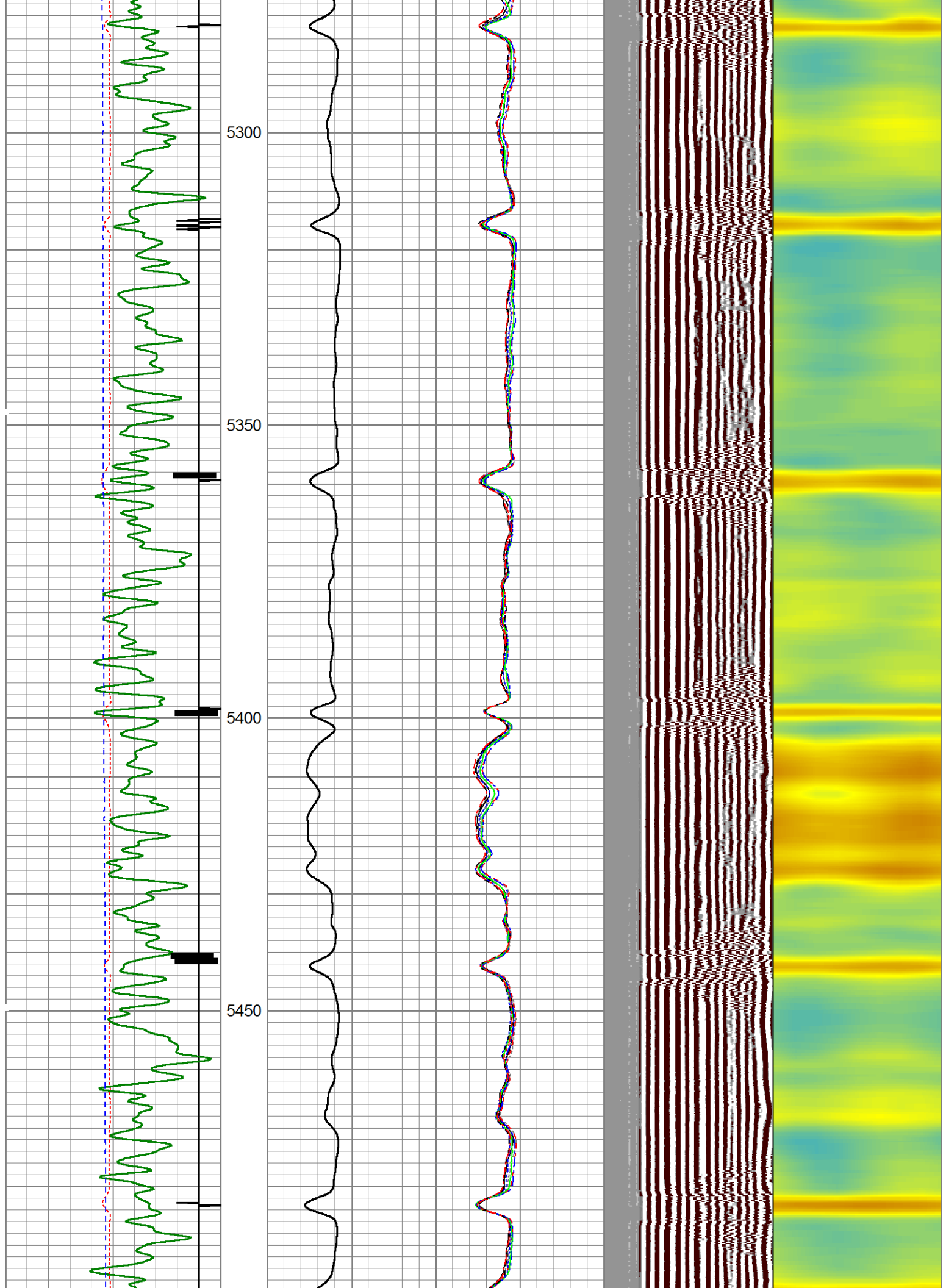


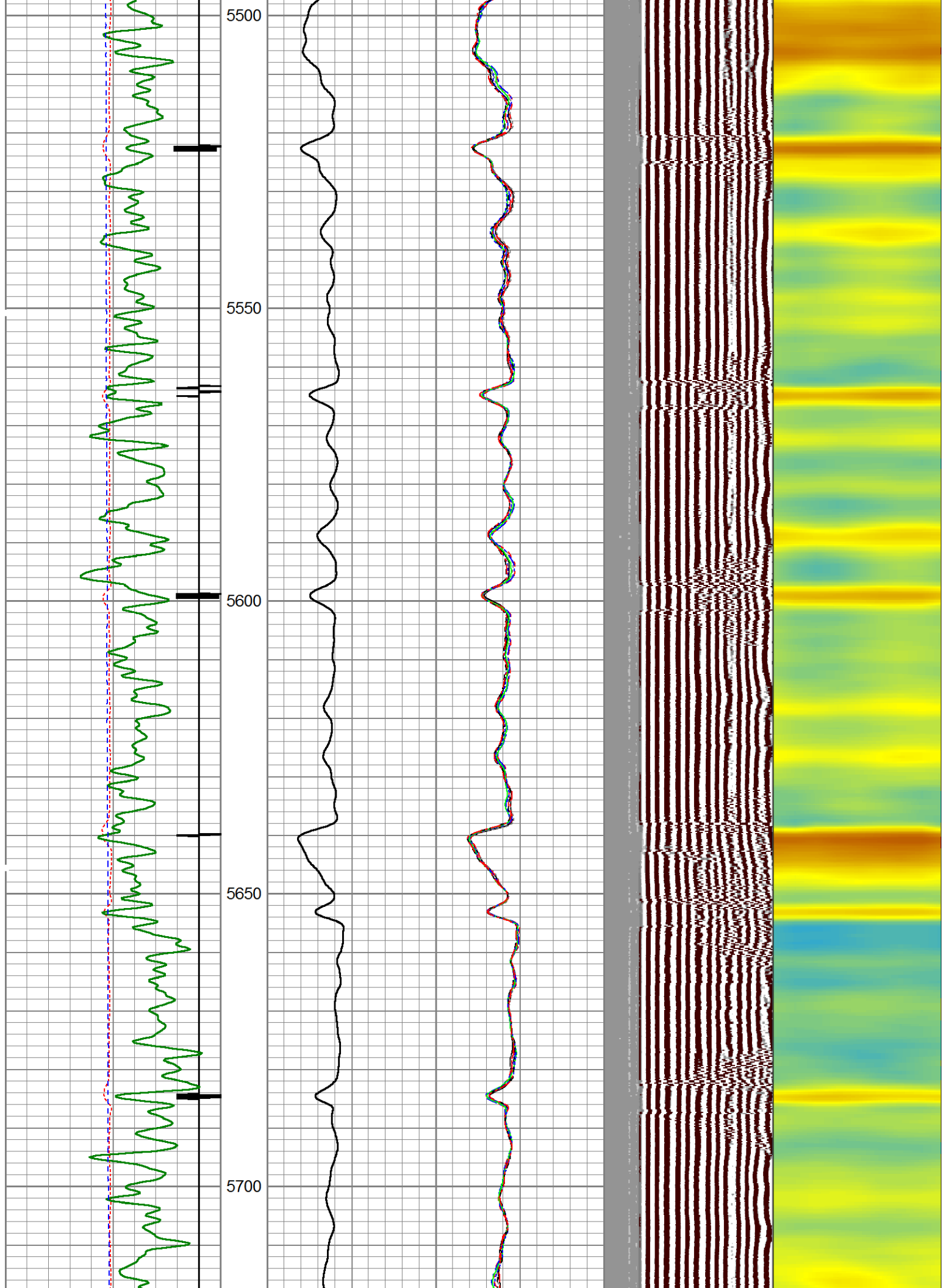


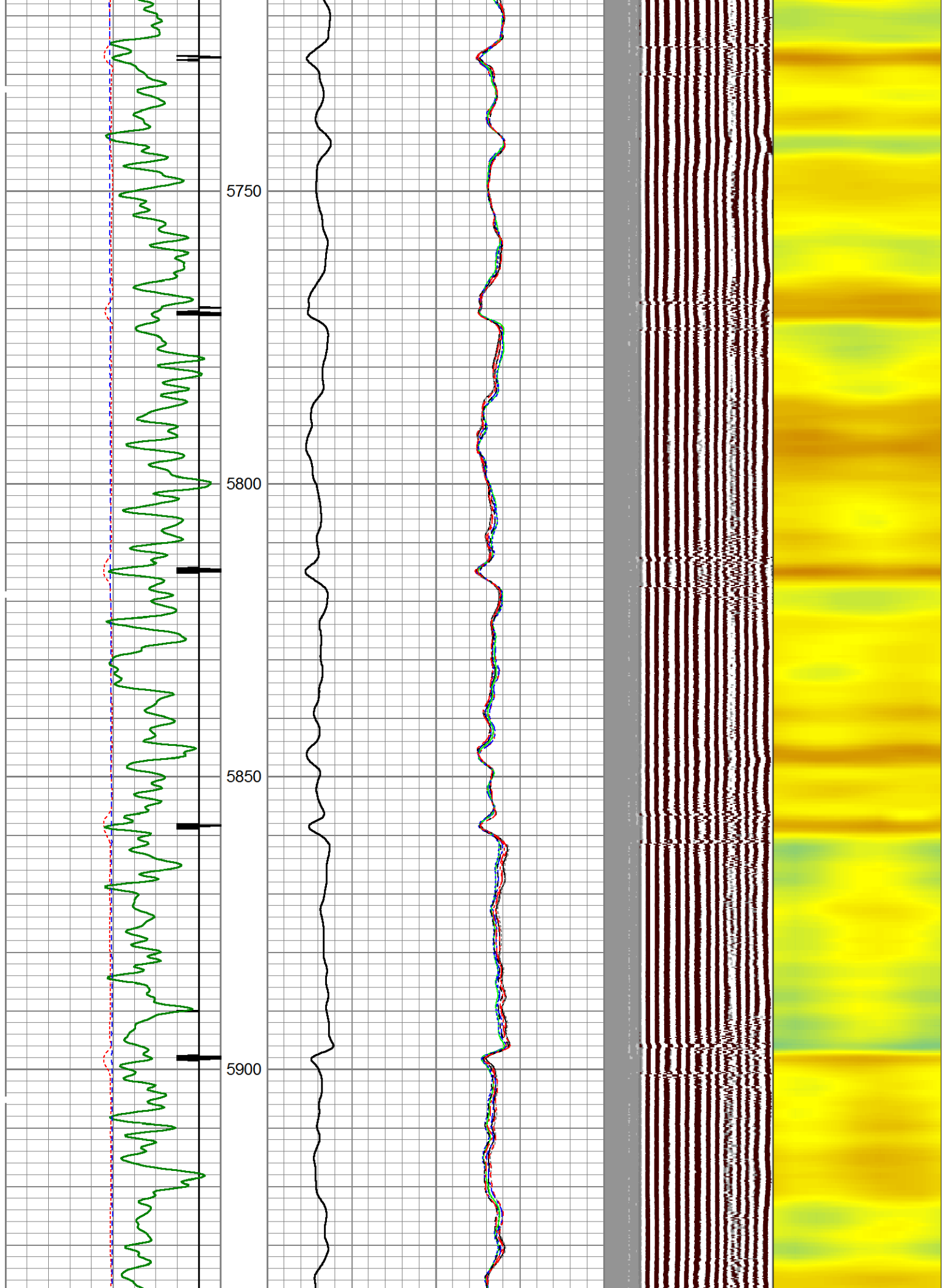


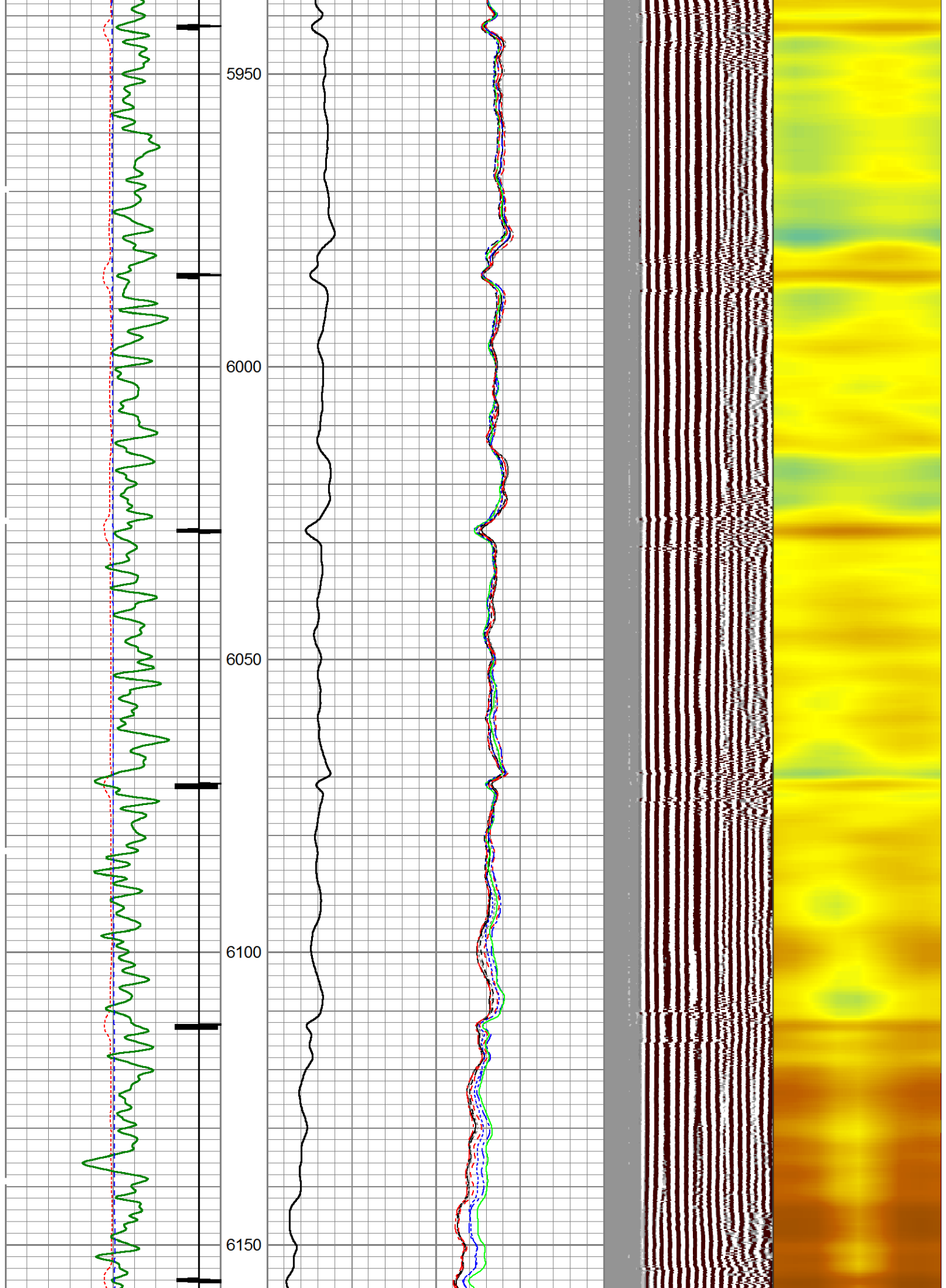


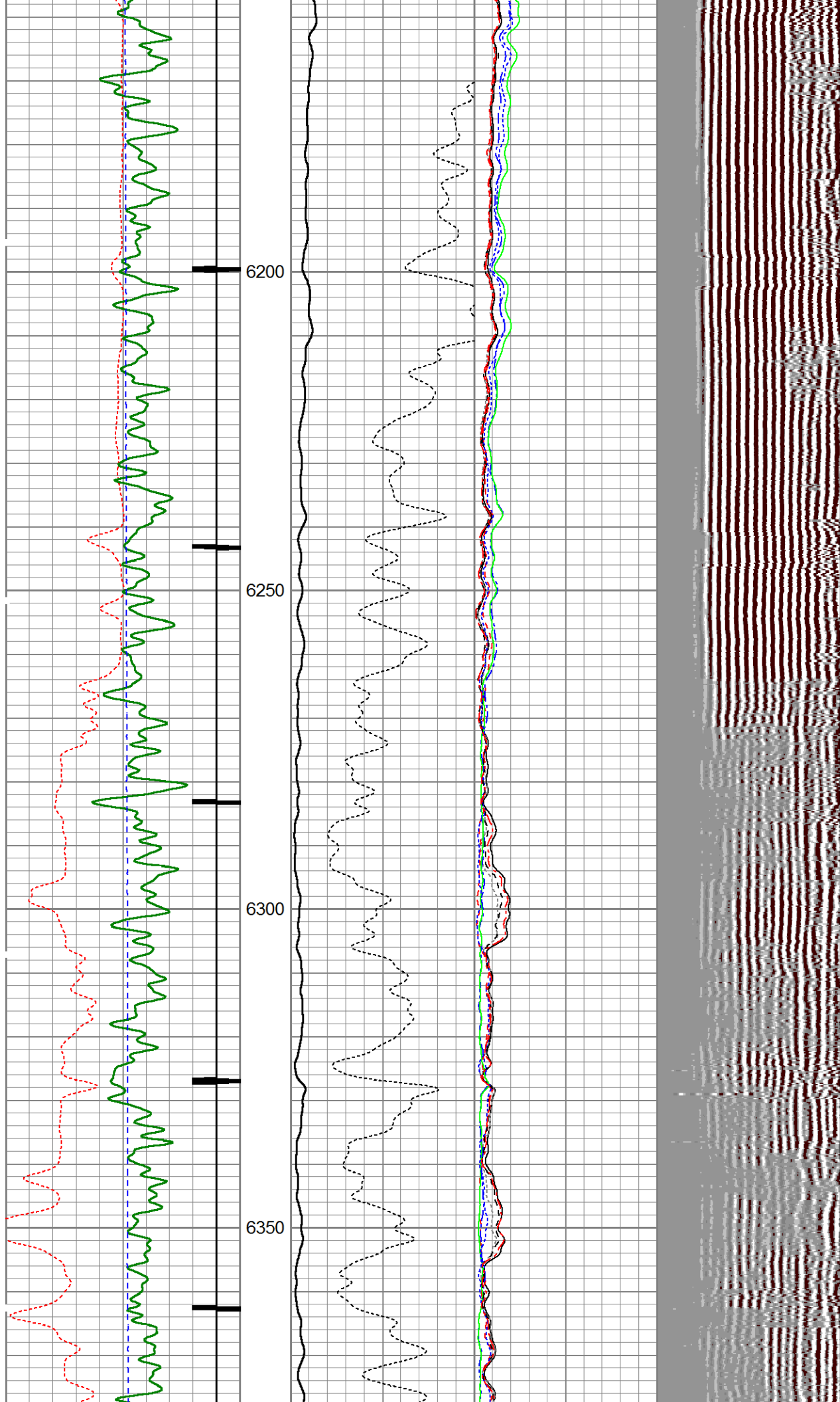


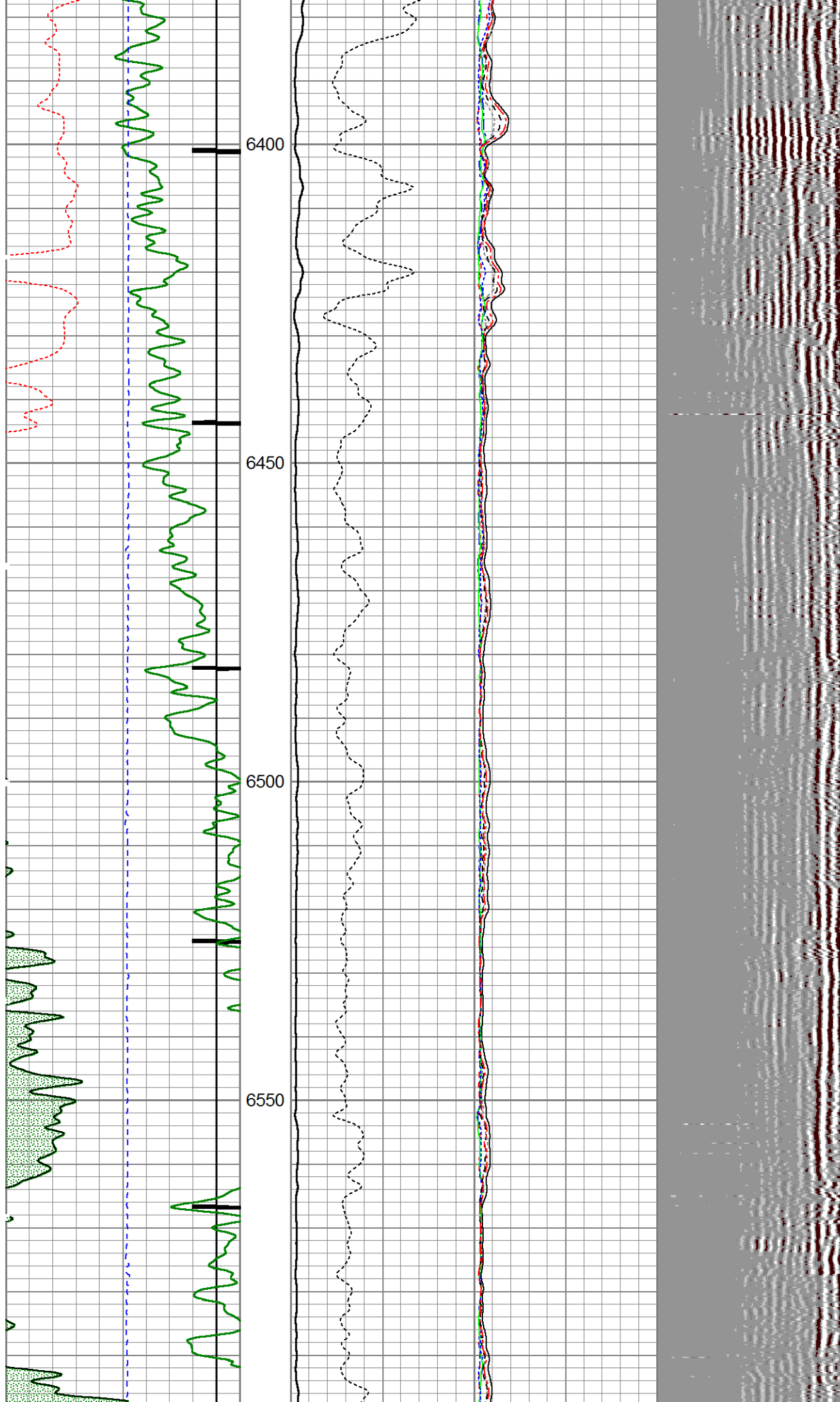


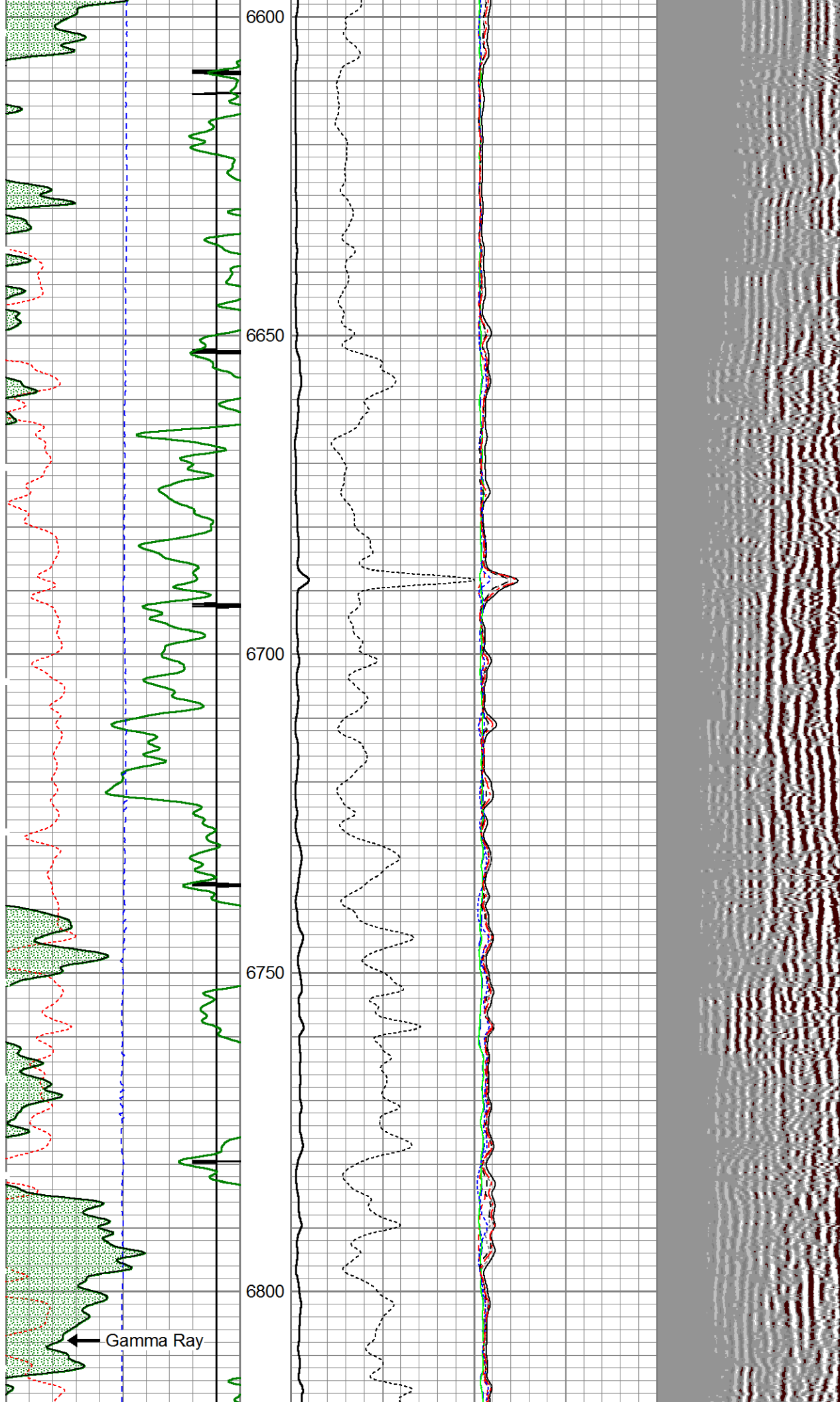


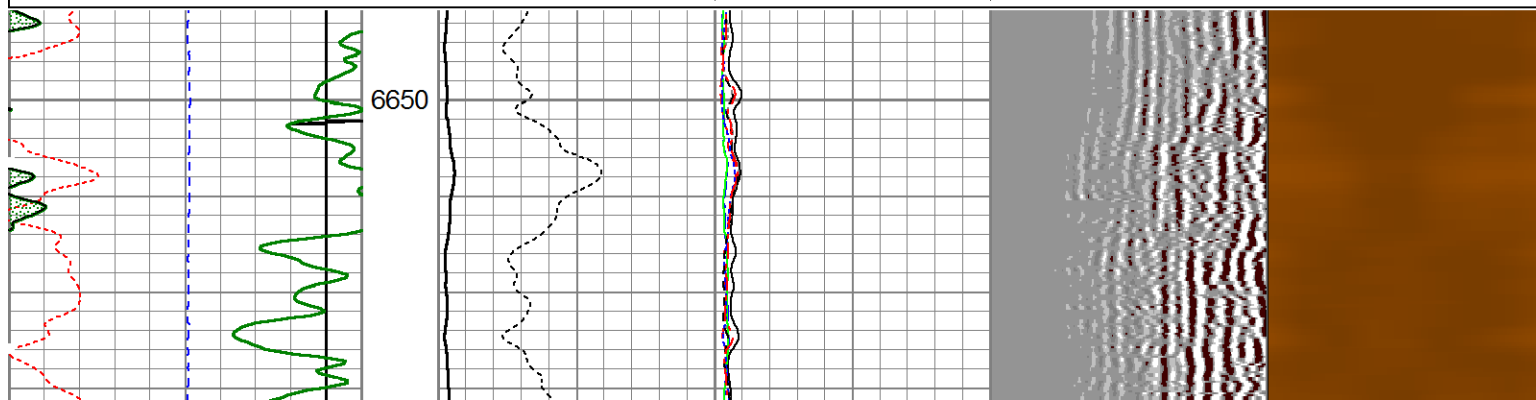
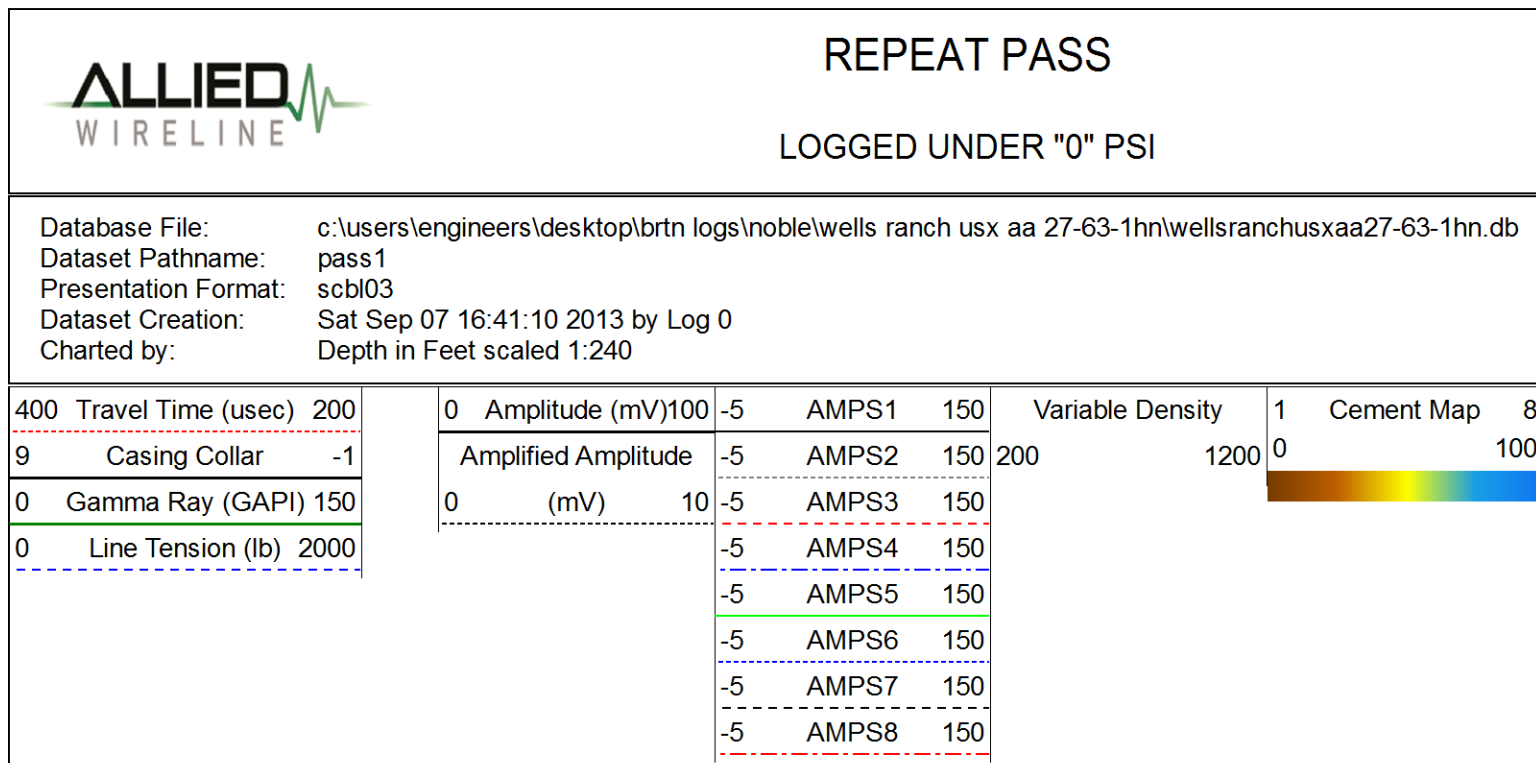
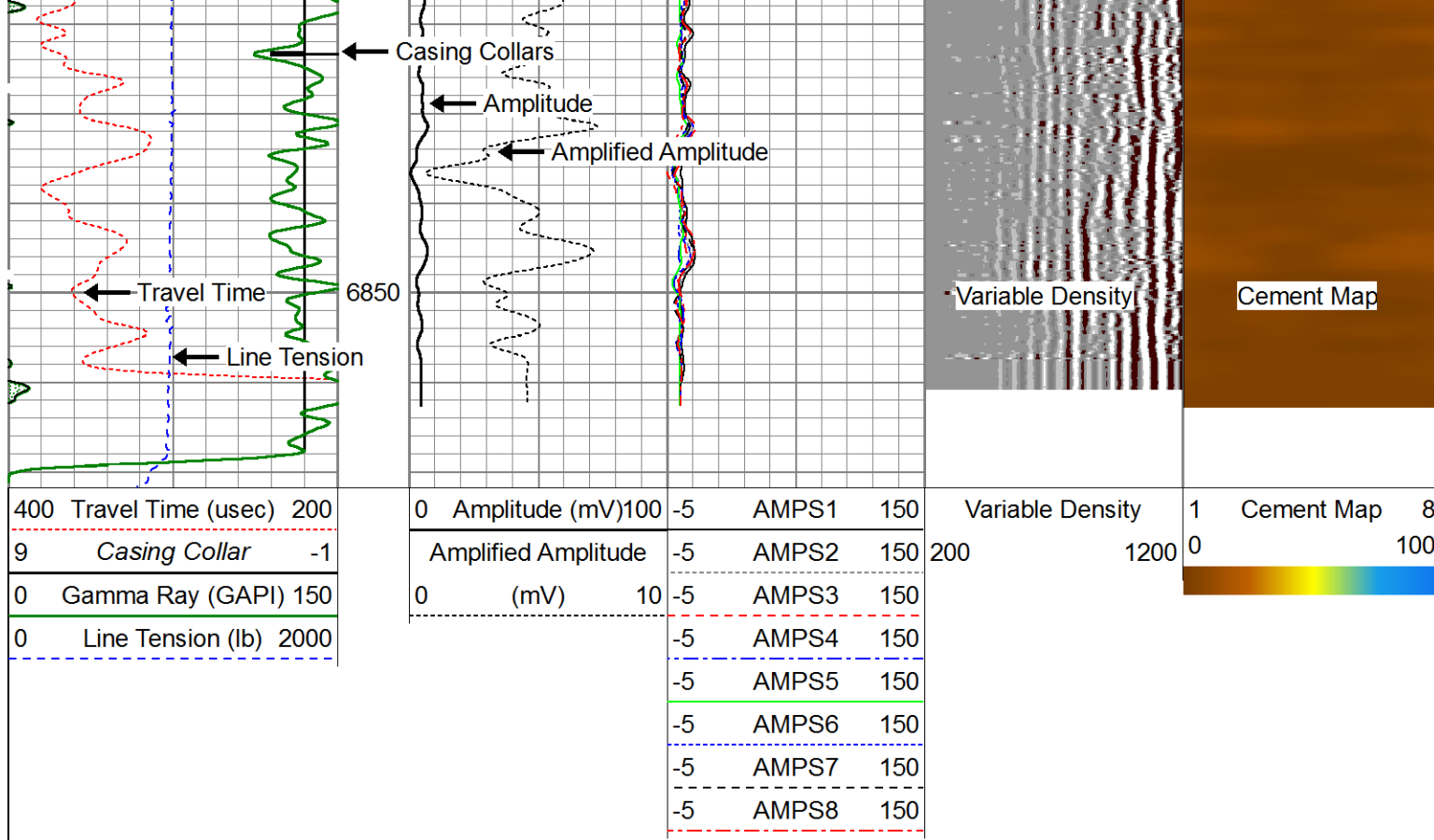


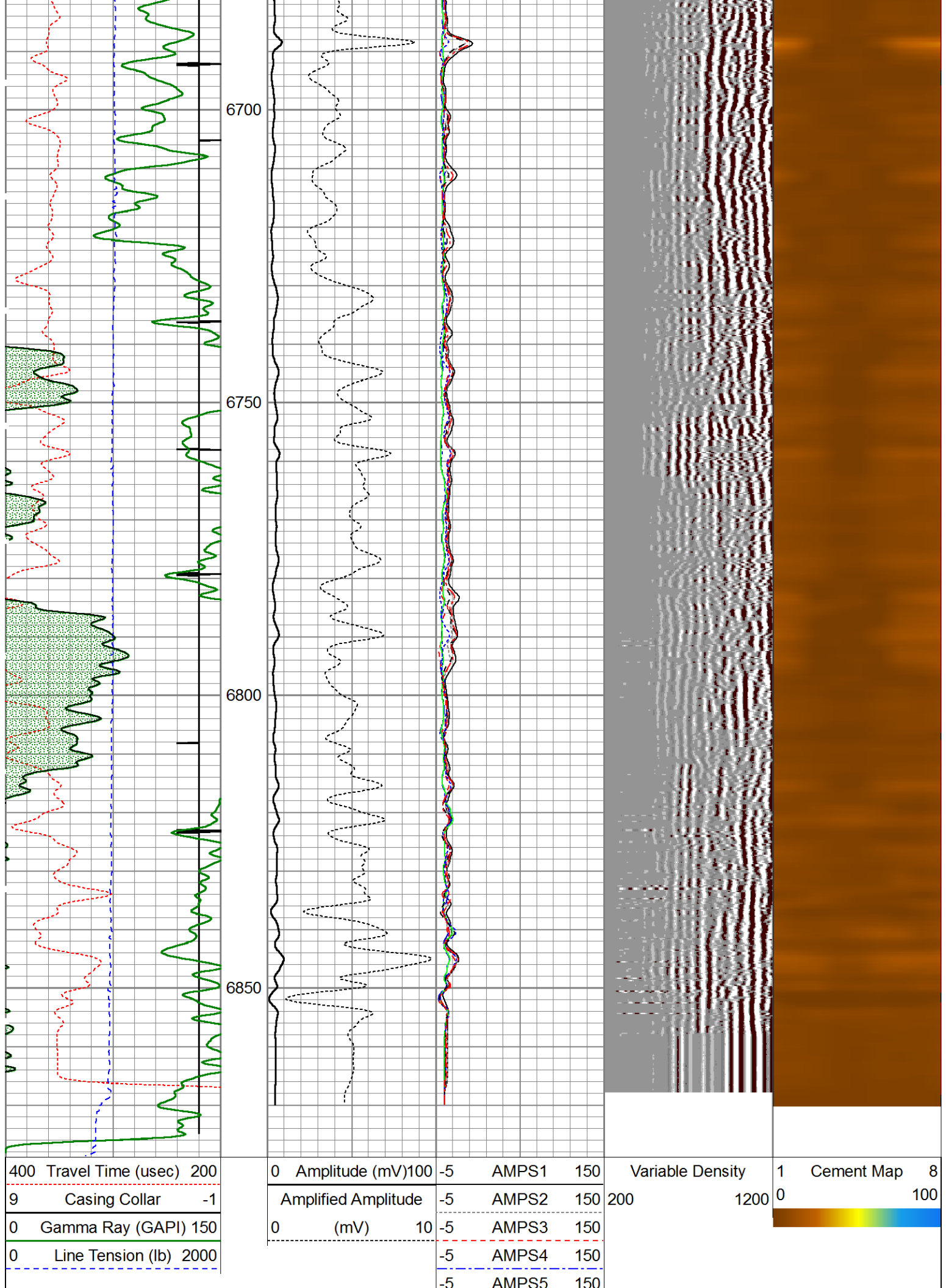












-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150