



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

Company	Noble Energy	Company	Noble Energy
Well	ROHN State LD04-63HN	Well	ROHN State LD04-63HN
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:		API # : 05-123-37448	Other Services
SEC 4 TWP 9 N RGE 58 W			
Permanent Datum	Ground Level	Elevation	4708'
Log Measured From	Kelly Bushing	24' APD	
Drilling Measured From	Kelly Bushing		
Date		10th October, 2013	
Run Number	One		
Depth Driller	9748'		
Depth Logger	5938'		
Bottom Logged Interval	5920'		
Top Log Interval	Surface		
Open Hole Size	8 3/4"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34		
Max. Recorded Temp.	208 °F		
Estimated Cement Top	1200'		
Time Well Ready	1430		
Time Logger on Bottom	1530		
Equipment Number	12029		
Location	Brighton, CO		
Recorded By	R.Grisson		
Witnessed By	Bill Mansfield		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
1	26"	Surface	124'
2	13.75"	124'	1224'
3	8.75"	1224'	5989'
4	6.125"	5989'	9758'
Casing Record	Size	Wgt/Ft	Top
Surface String	9 5/8"	36#	Surface
Prot. String			
Production String	7"	26#	Surface
Liner	4.5"	11 6#	5907.5'
Short Joint			4702'

<<< Fold Here >>>

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 using 24' KB

Your Crew for Today. T.Canfarelli, M. Bingaman

Main Pass and Repeat Pass logged with zero pressure on surface


Thank You for using Allied Wireline

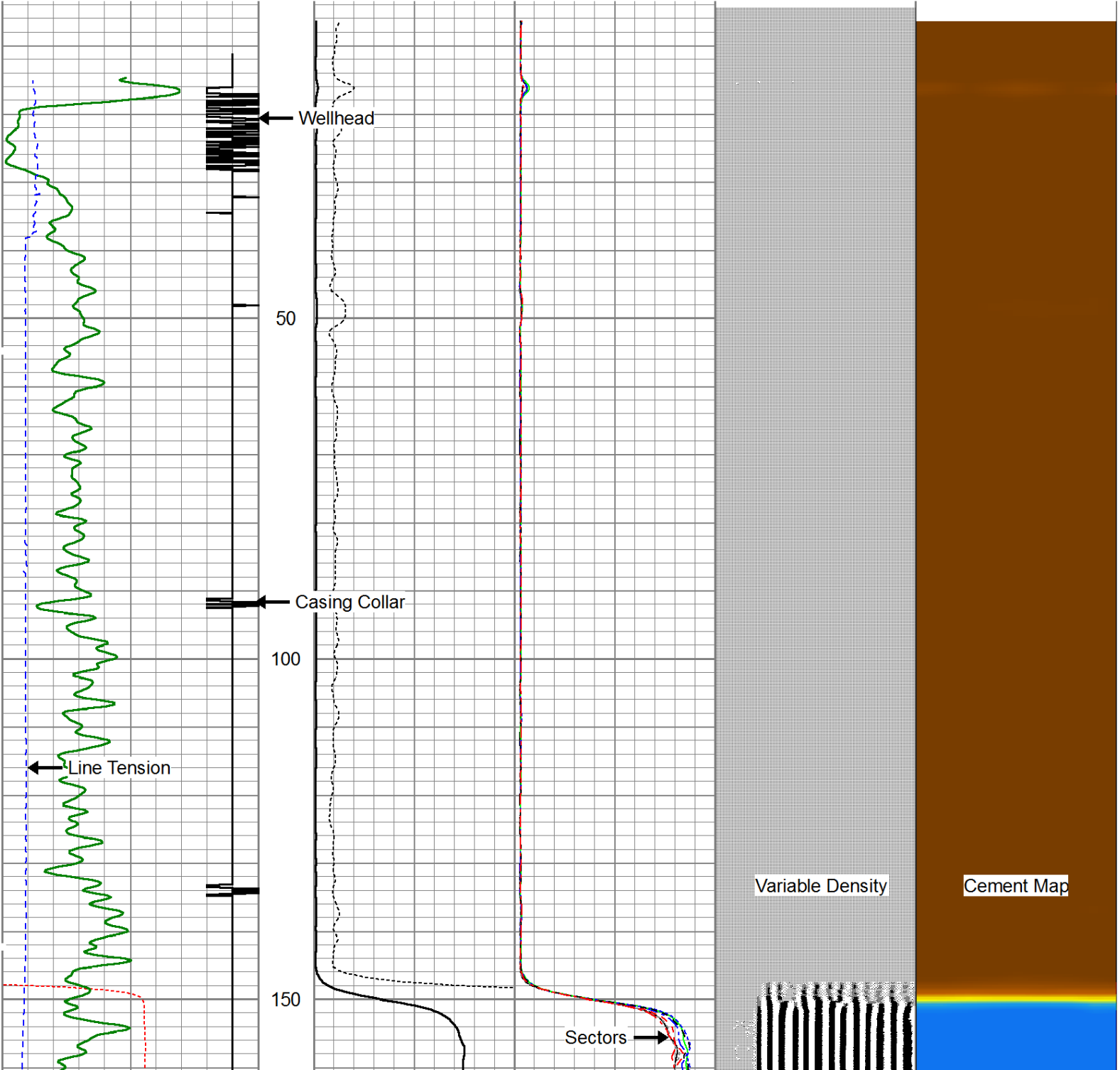
(303) 659-4609

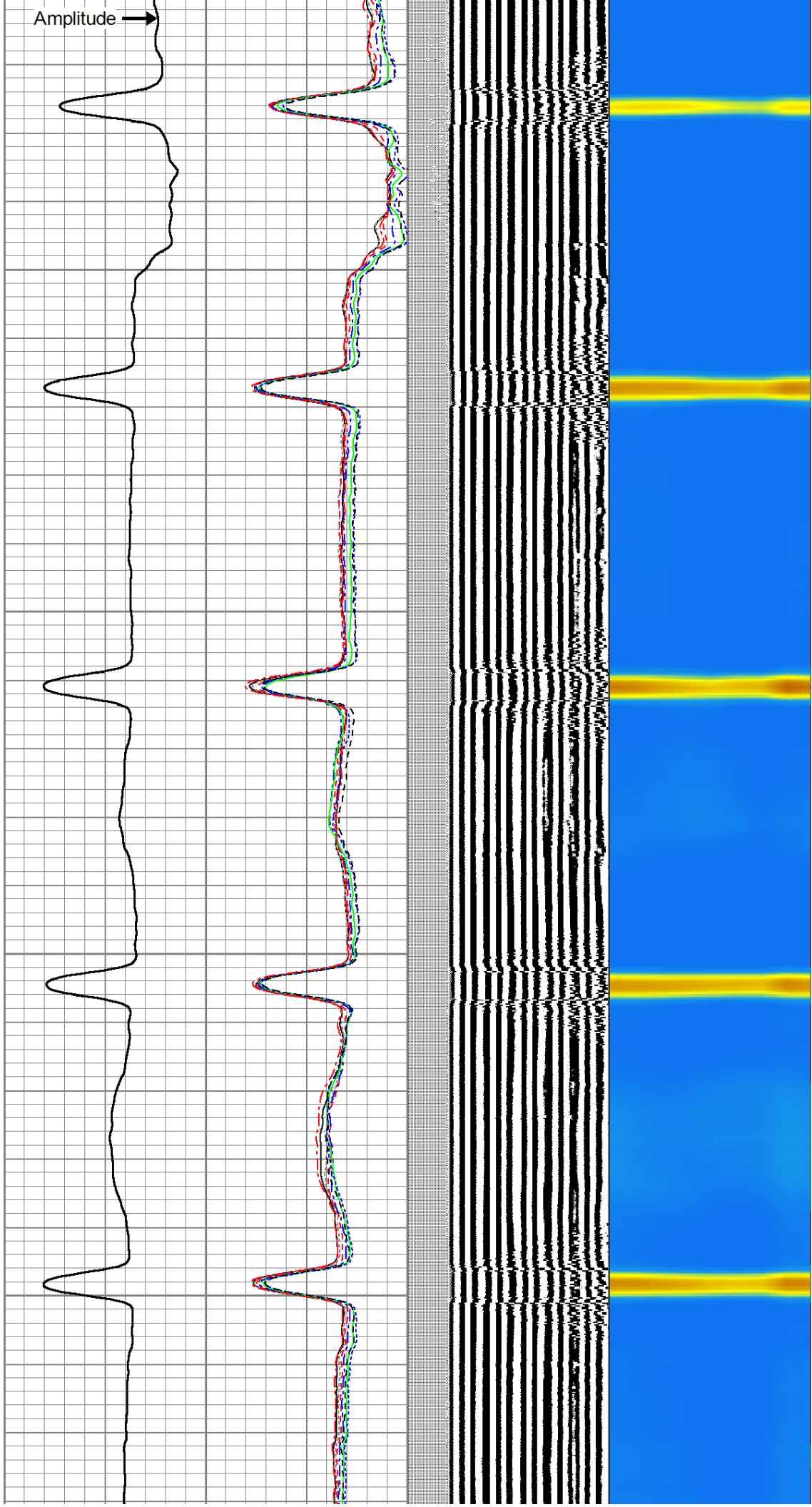
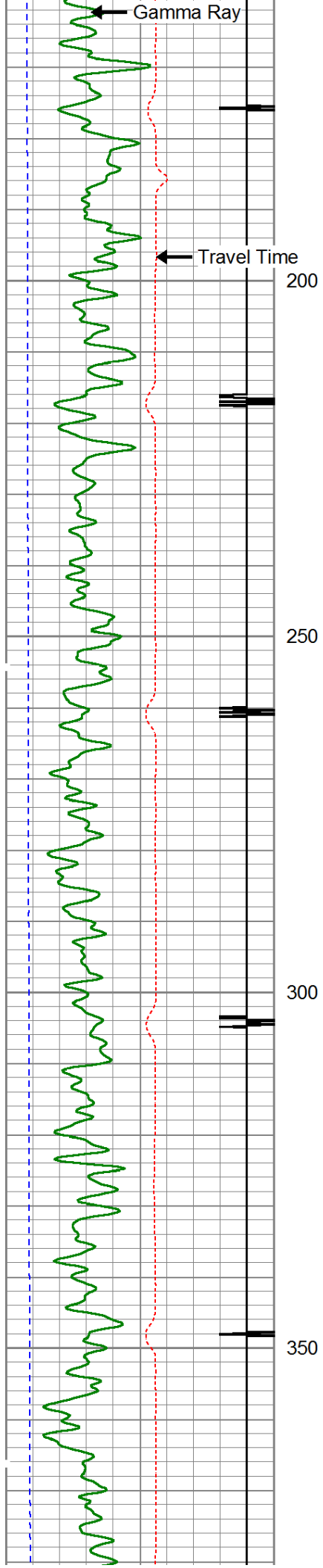


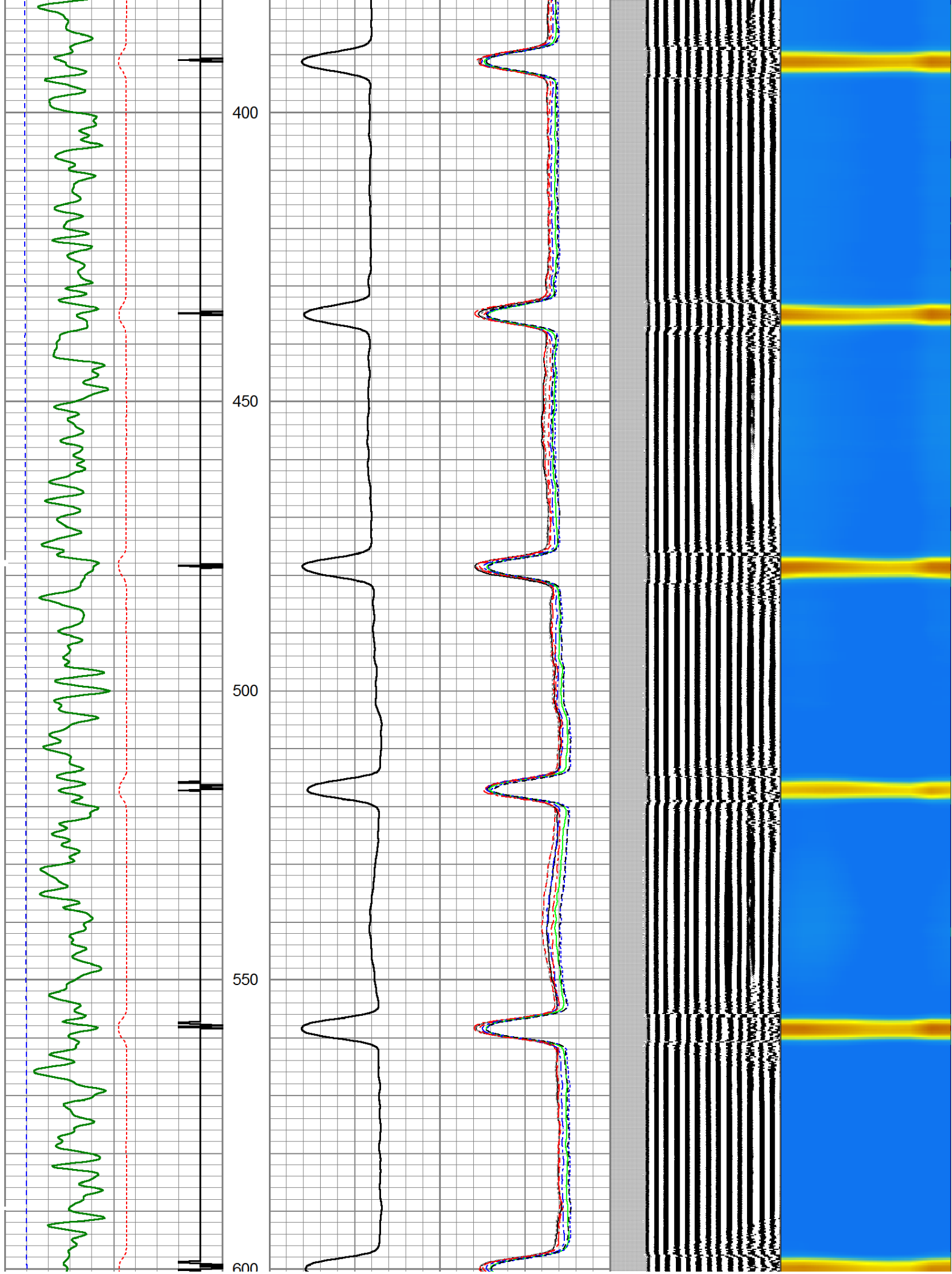
Main Pass (0 PSI)

Database File: noble energy rohn state ld04-63hn\_cbl.db  
Dataset Pathname: pass4  
Presentation Format: scbl03  
Dataset Creation: Thu Oct 10 15:35:41 2013 by Log SCH 120126  
Charted by: Depth in Feet scaled 1:240

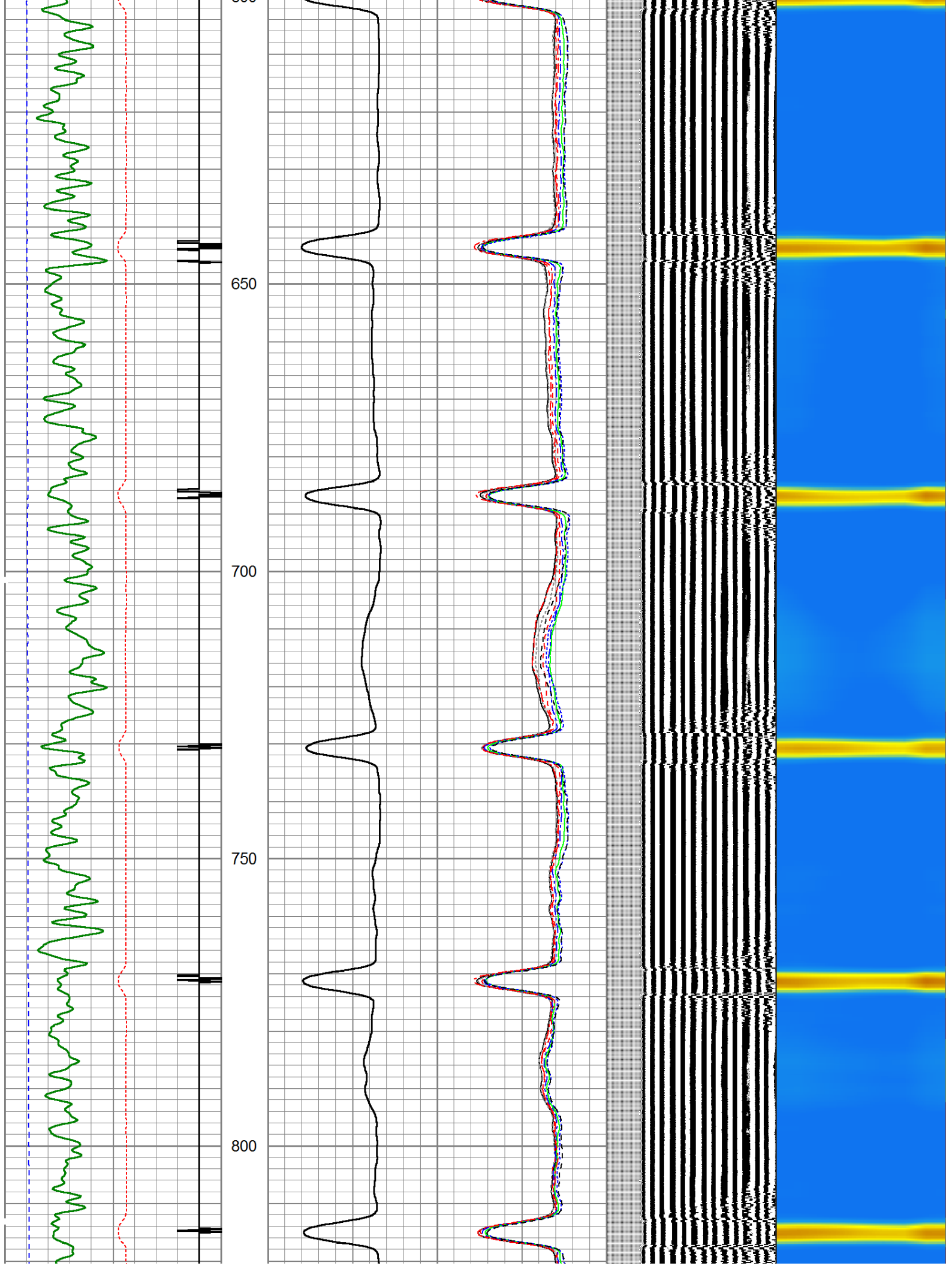
400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density		1	Cement Map	8			
9	Casing Collar	-1	Amplified Amplitude			-5	AMPS2	150	200	1200	0		100			
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150								
0	Line Tension (lb)	2500				-5	AMPS4	150								
							-5	AMPS5						150		
							-5	AMPS6						150		
							-5	AMPS7						150		
							-5	AMPS8	150							

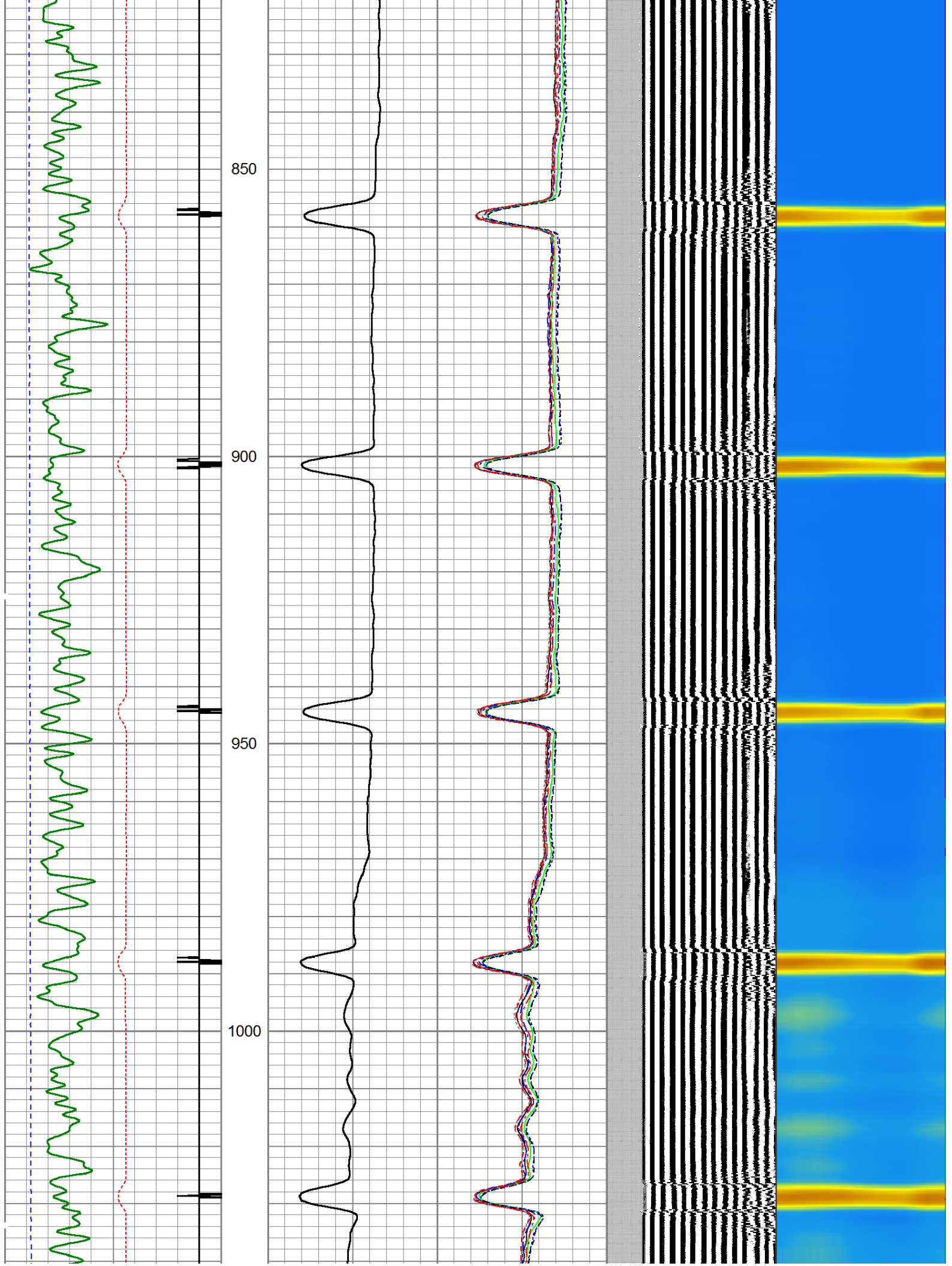


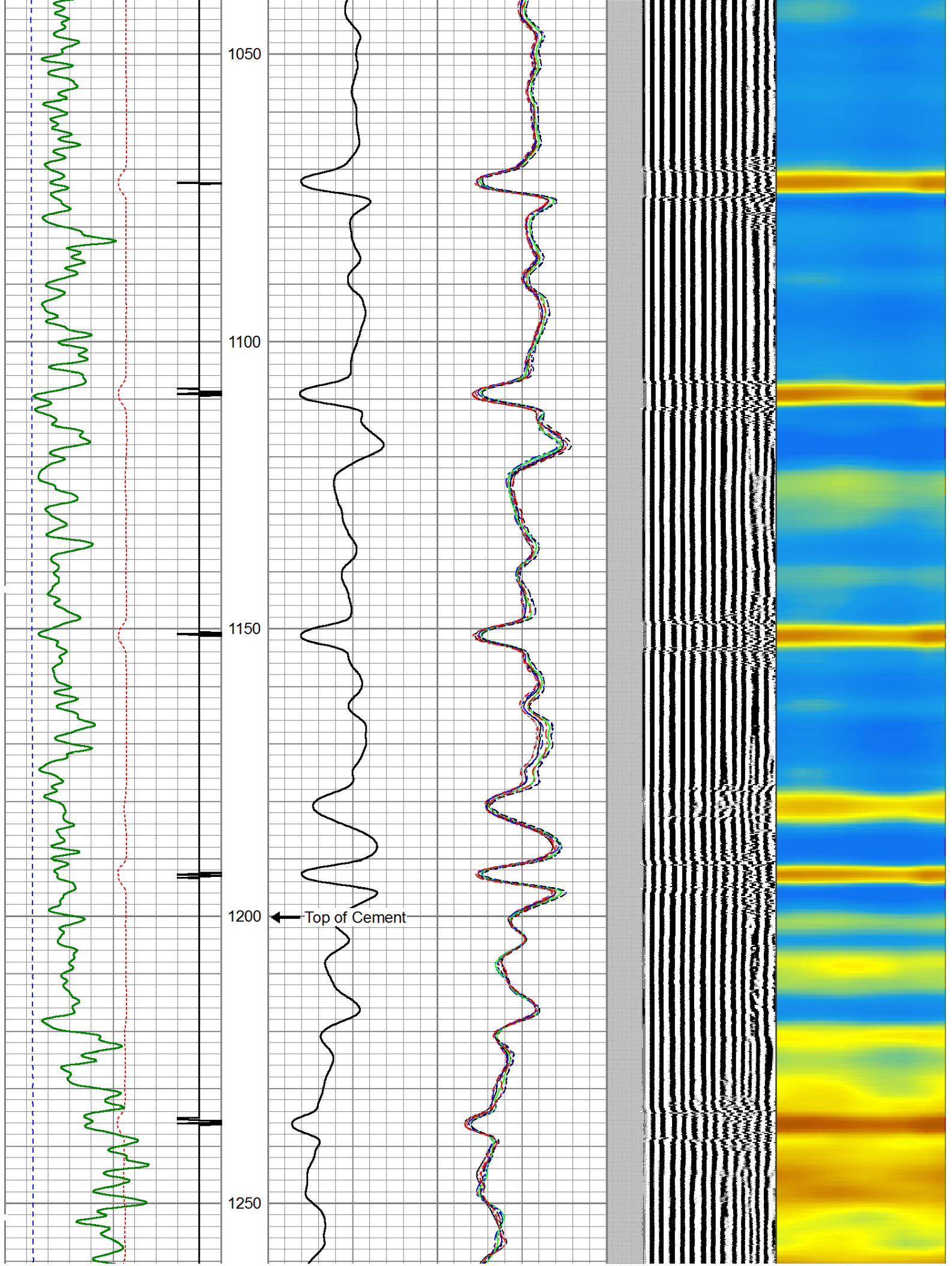




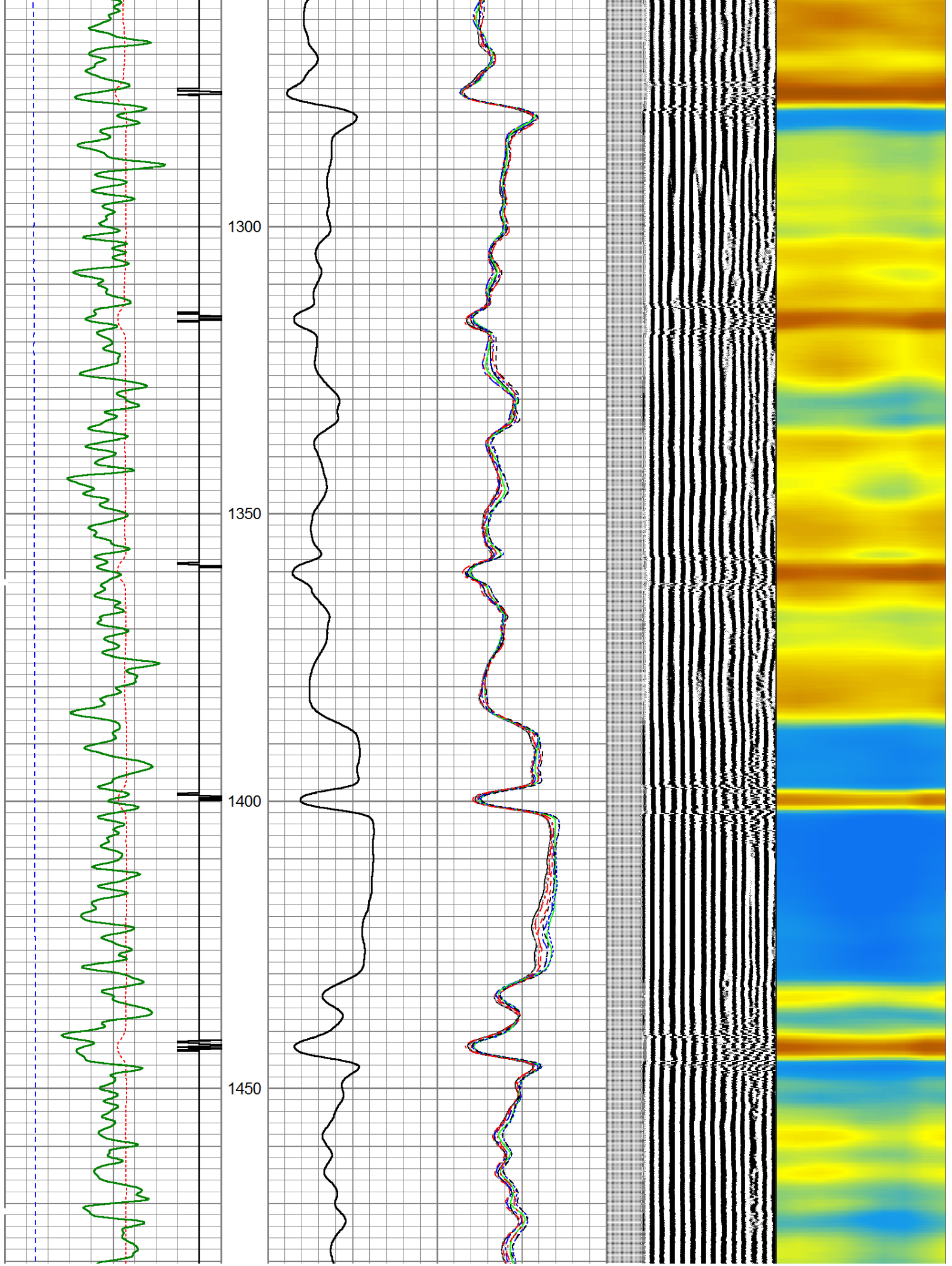




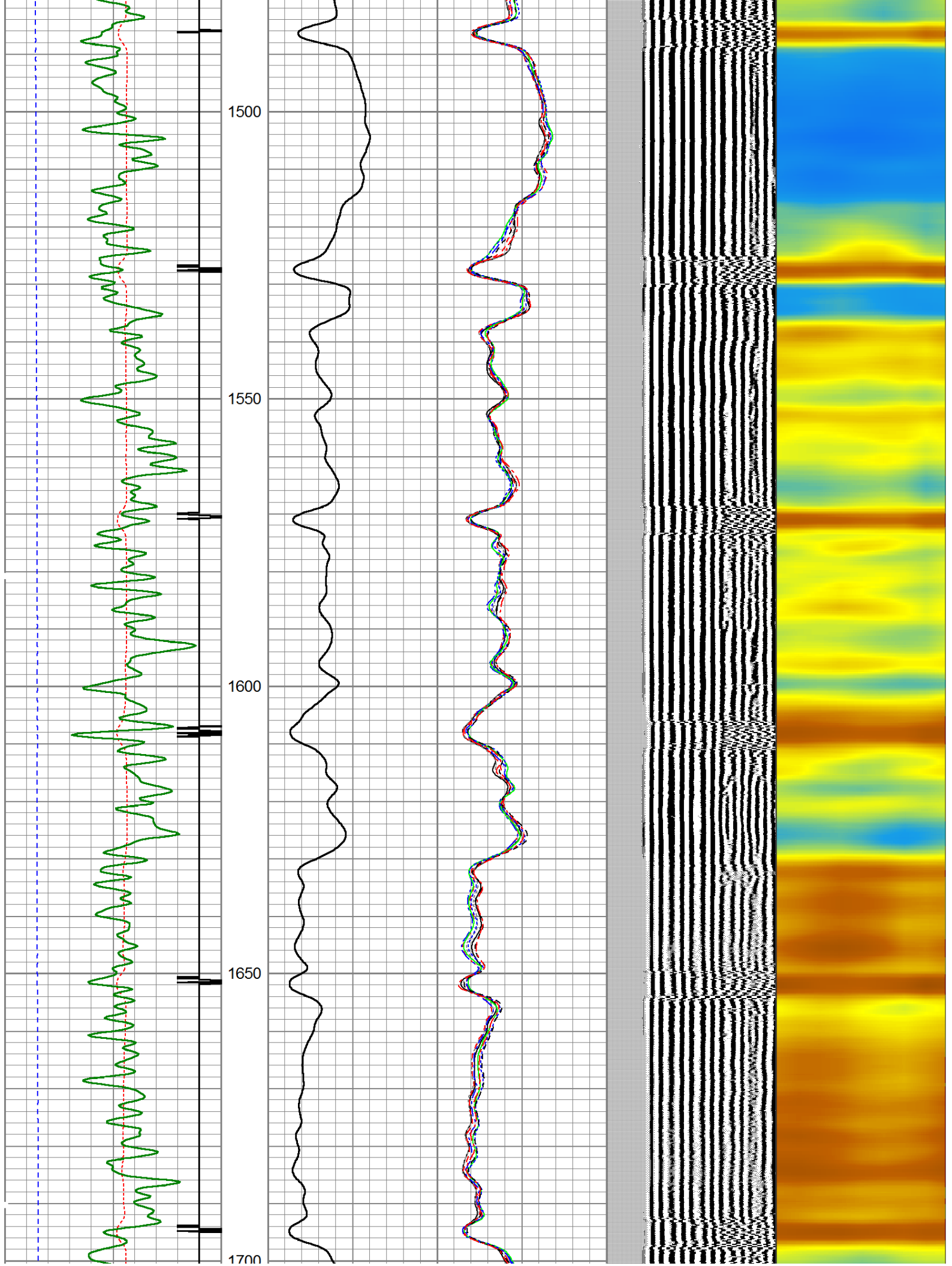


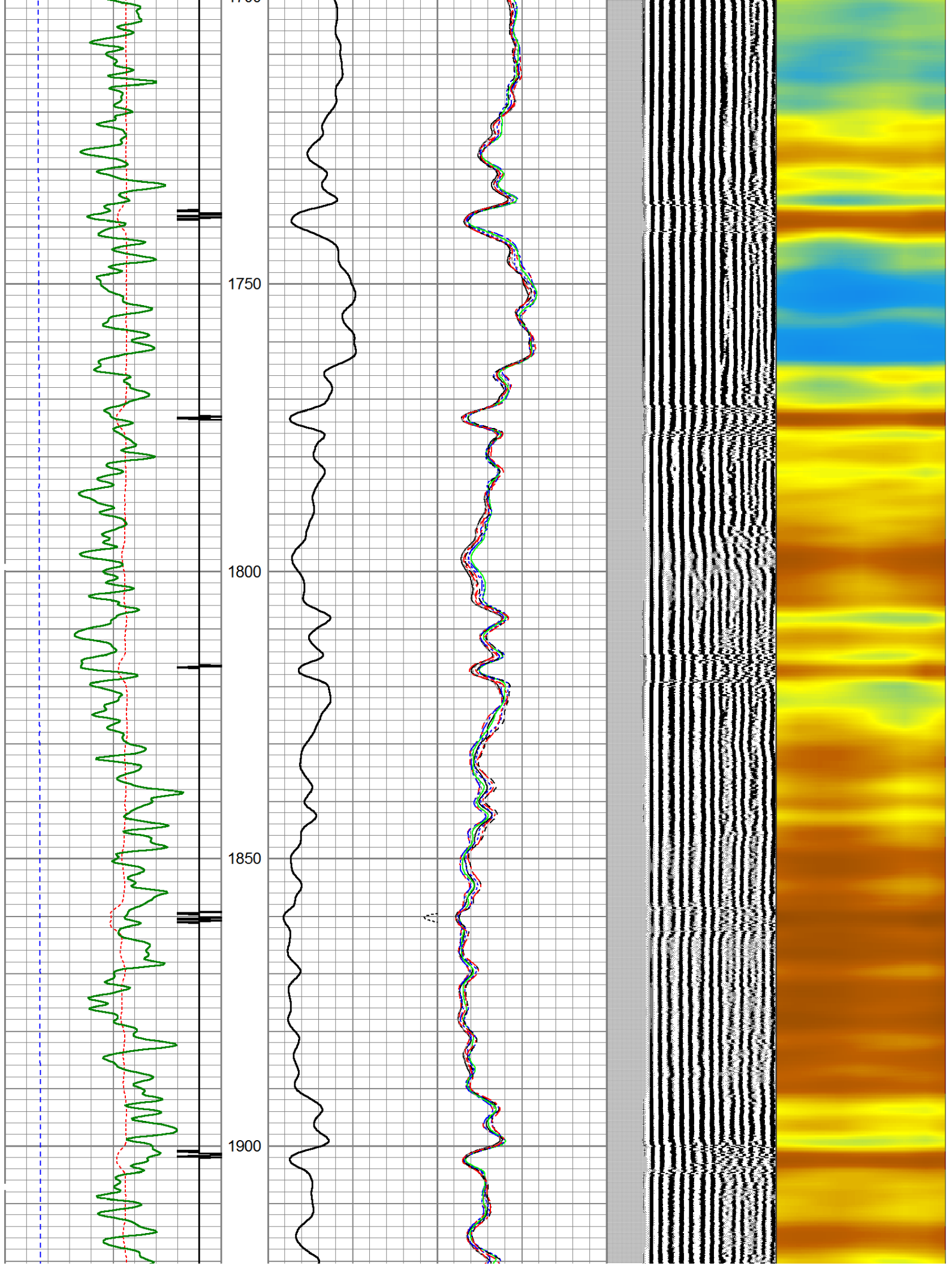


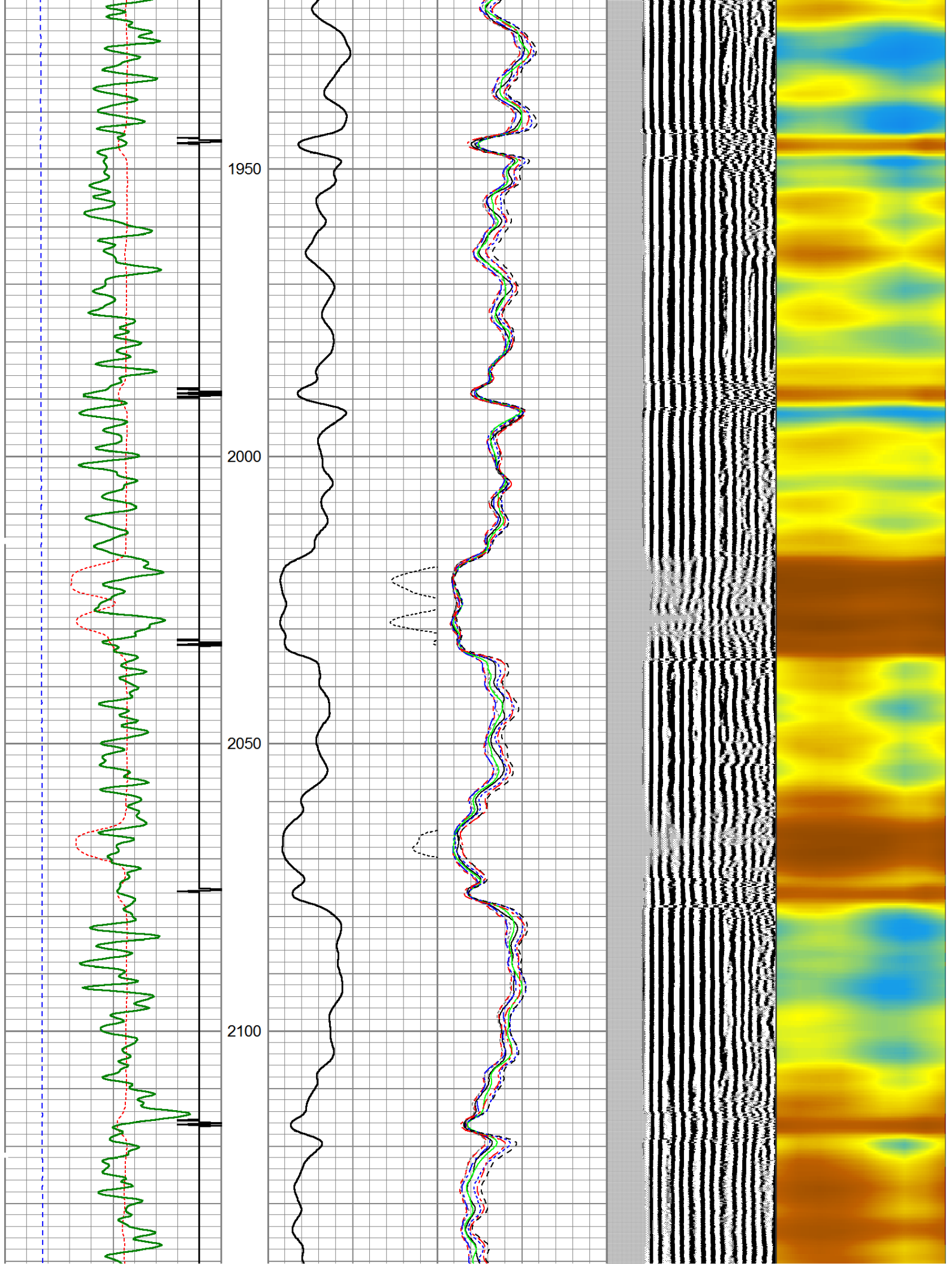




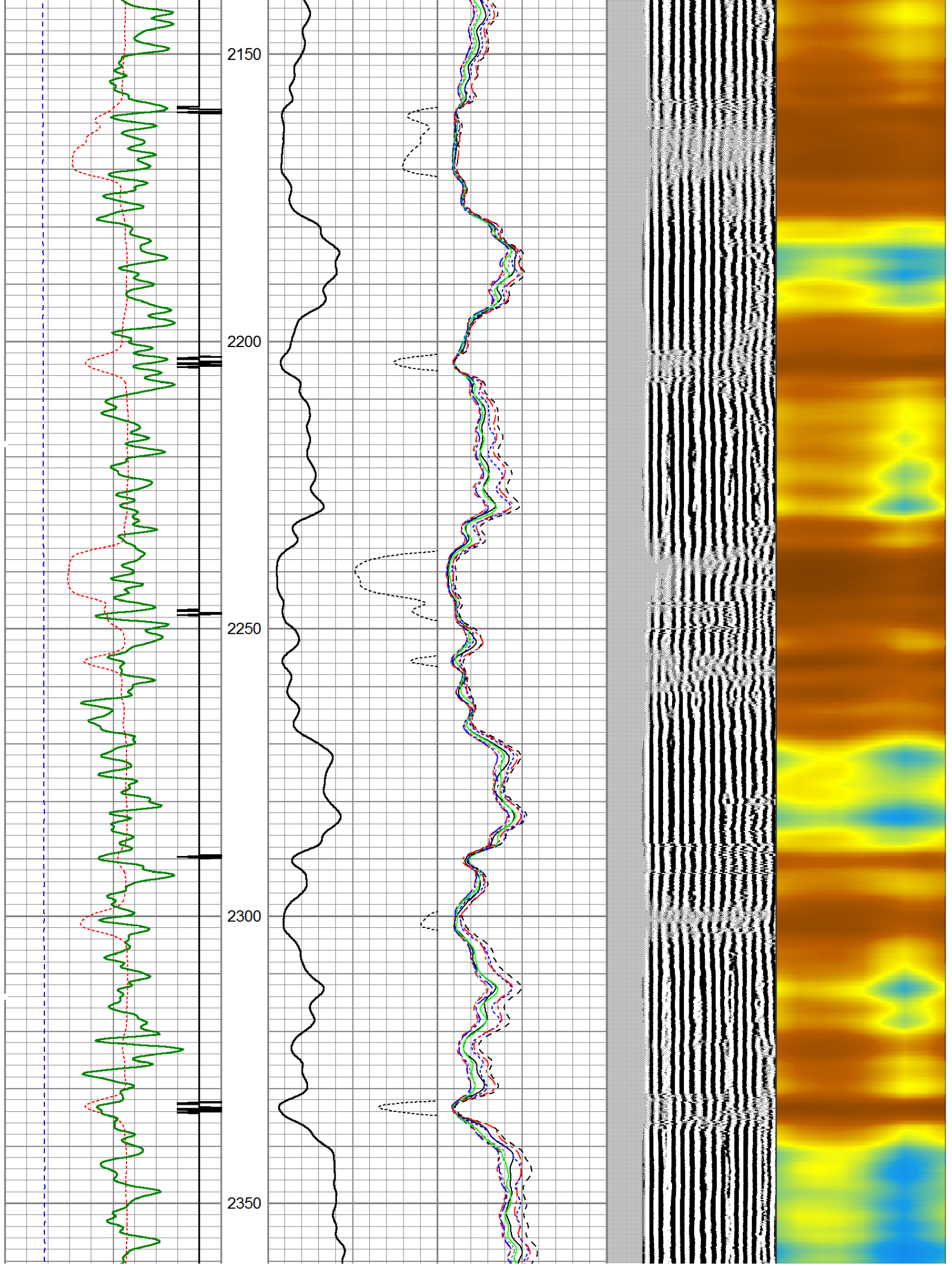




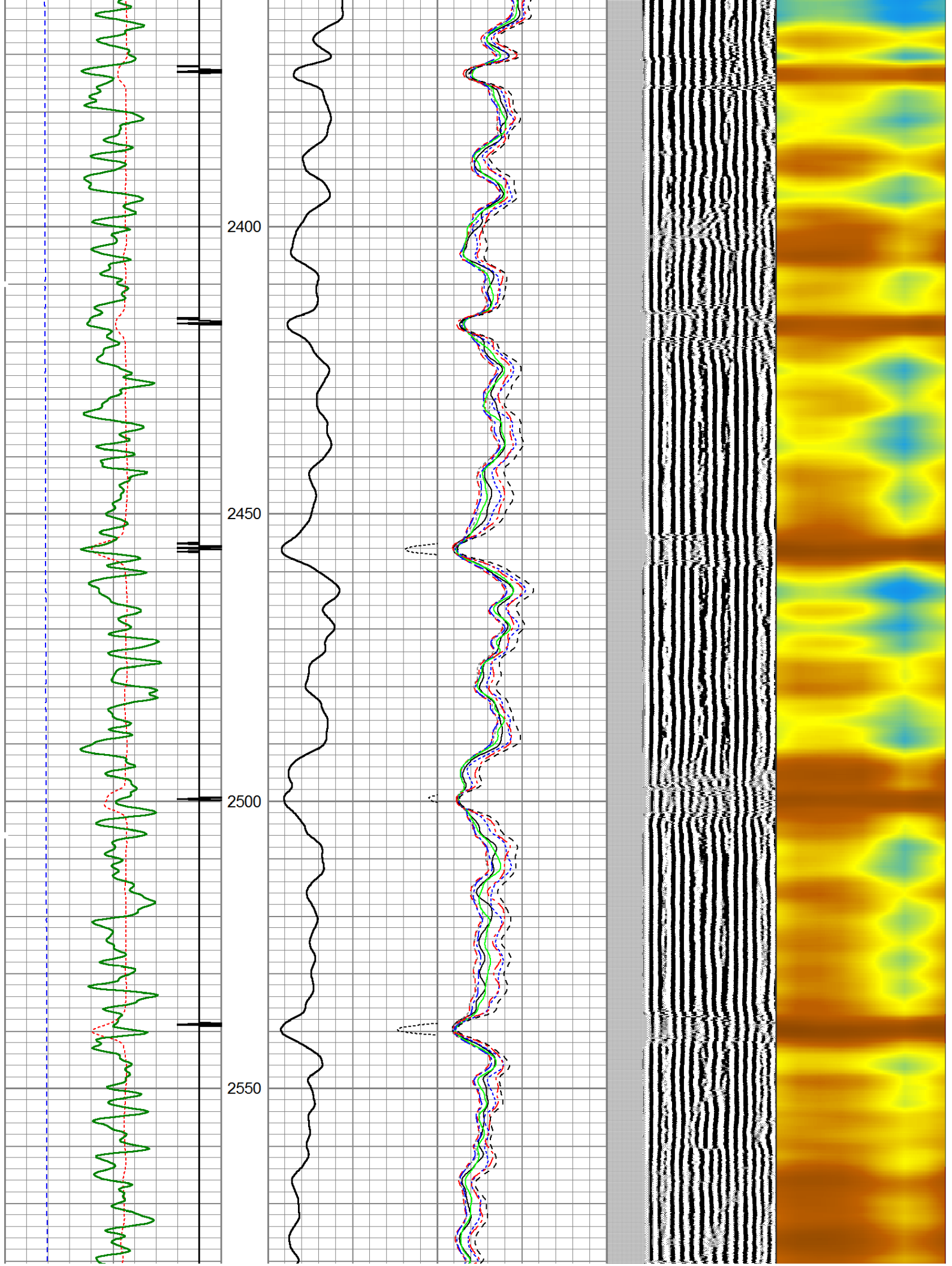


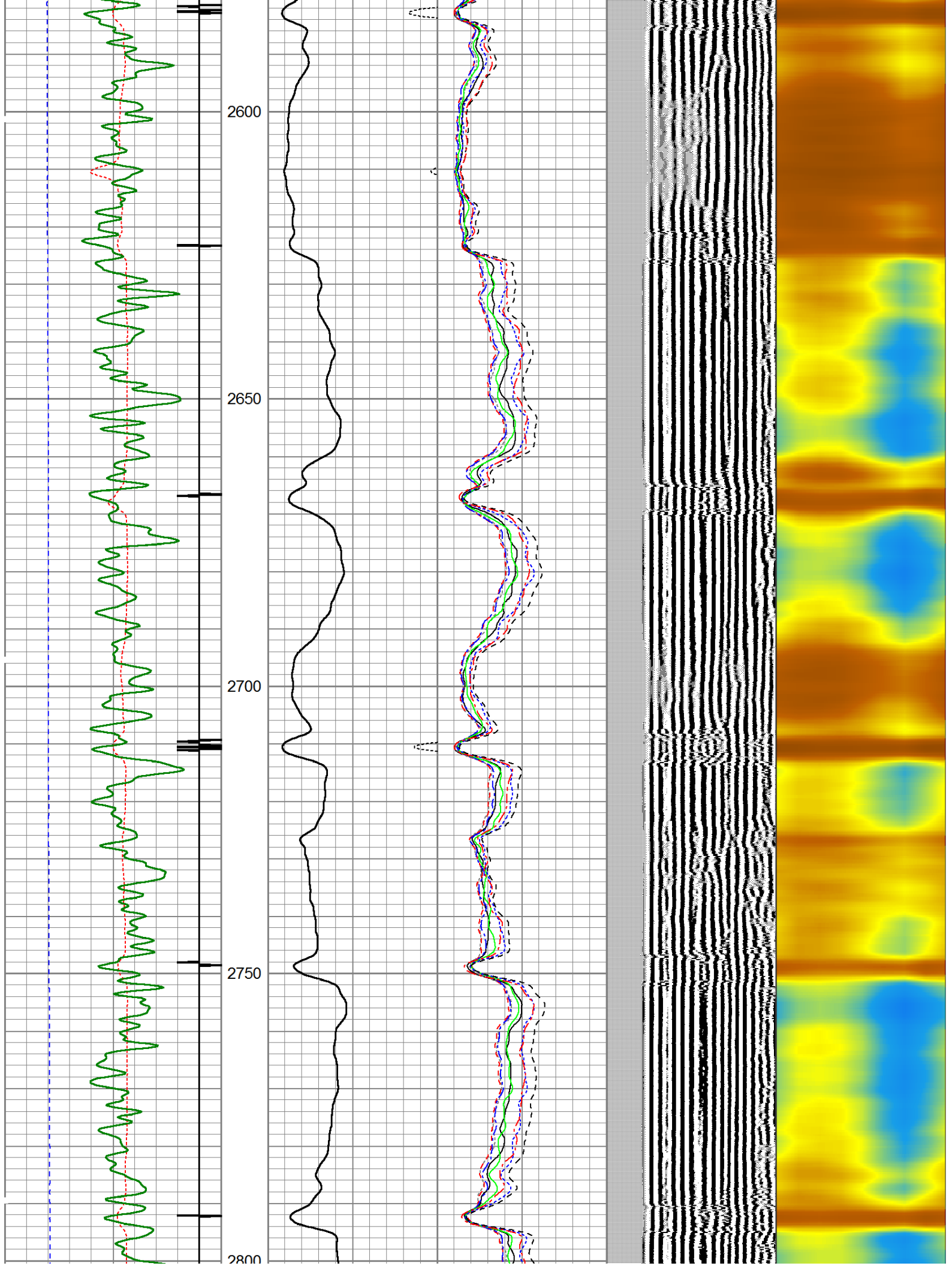




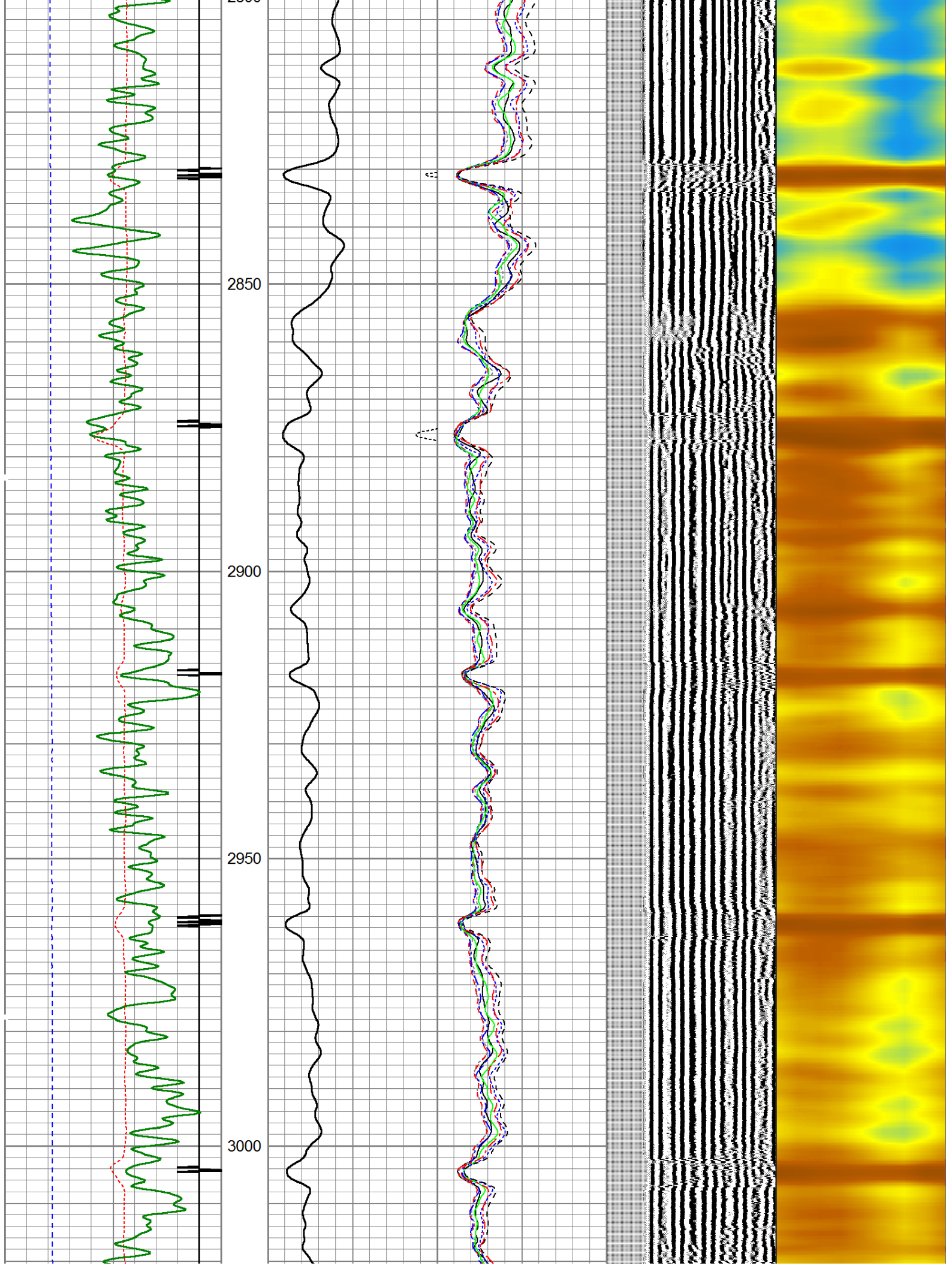


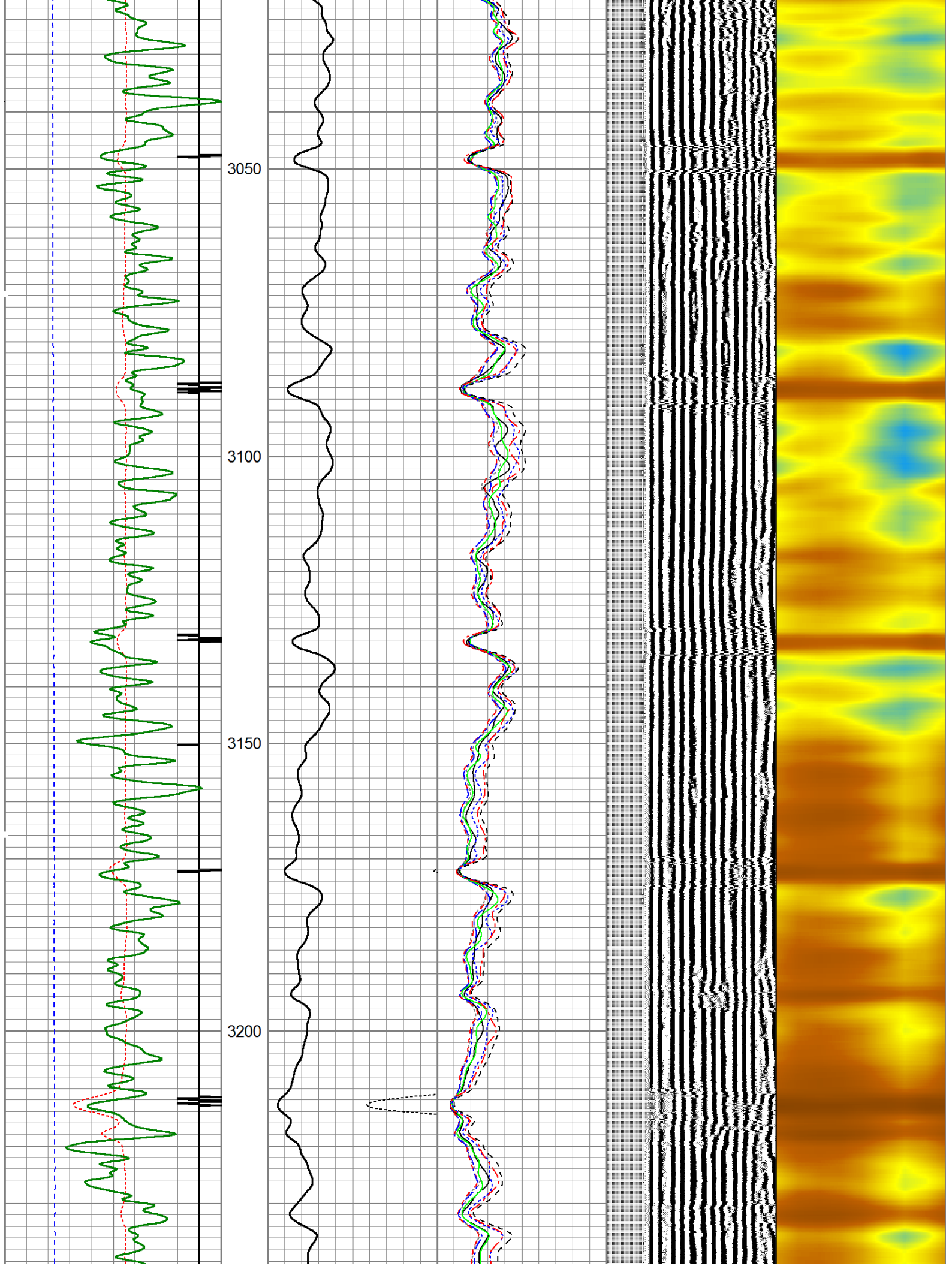




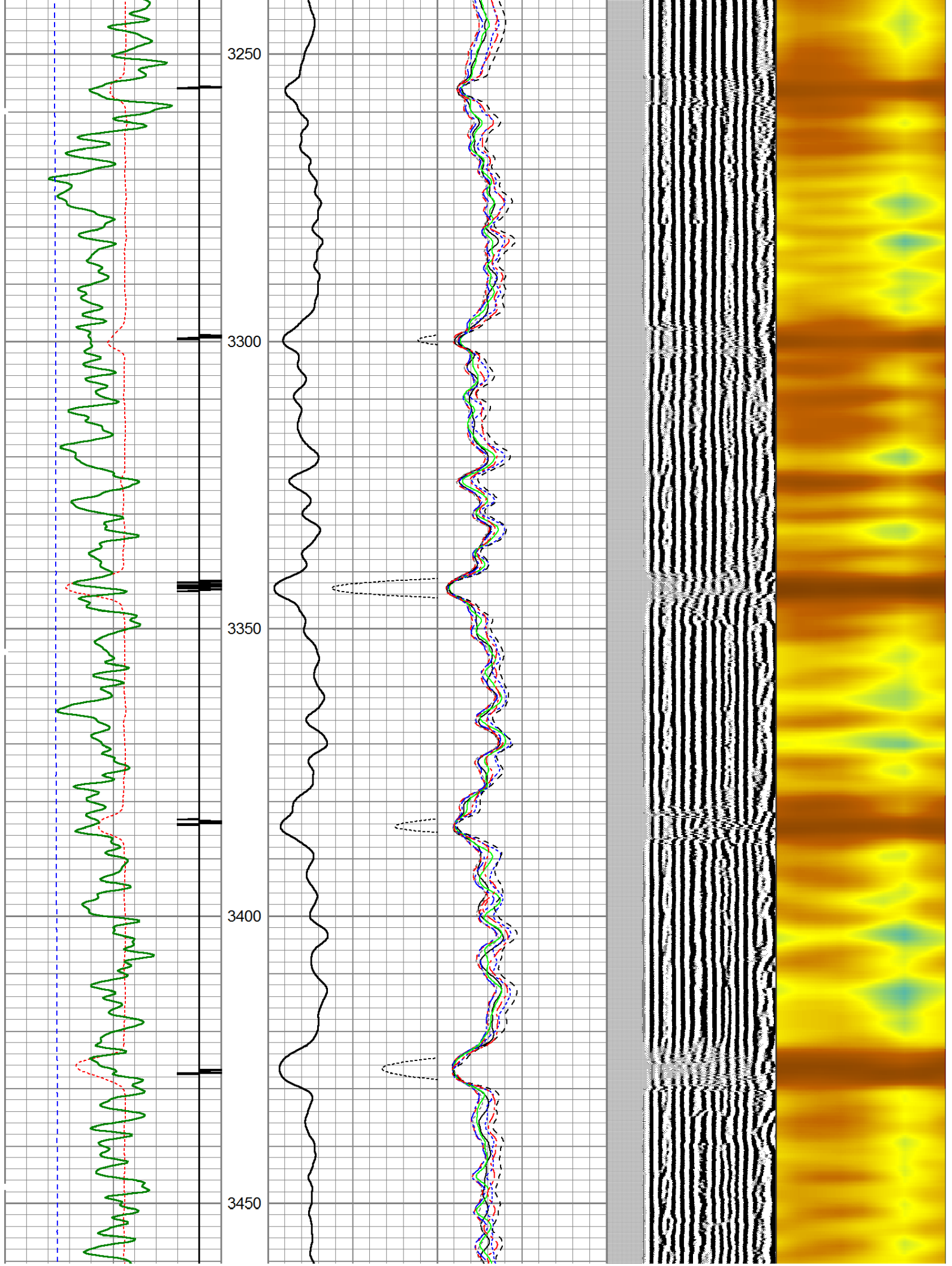


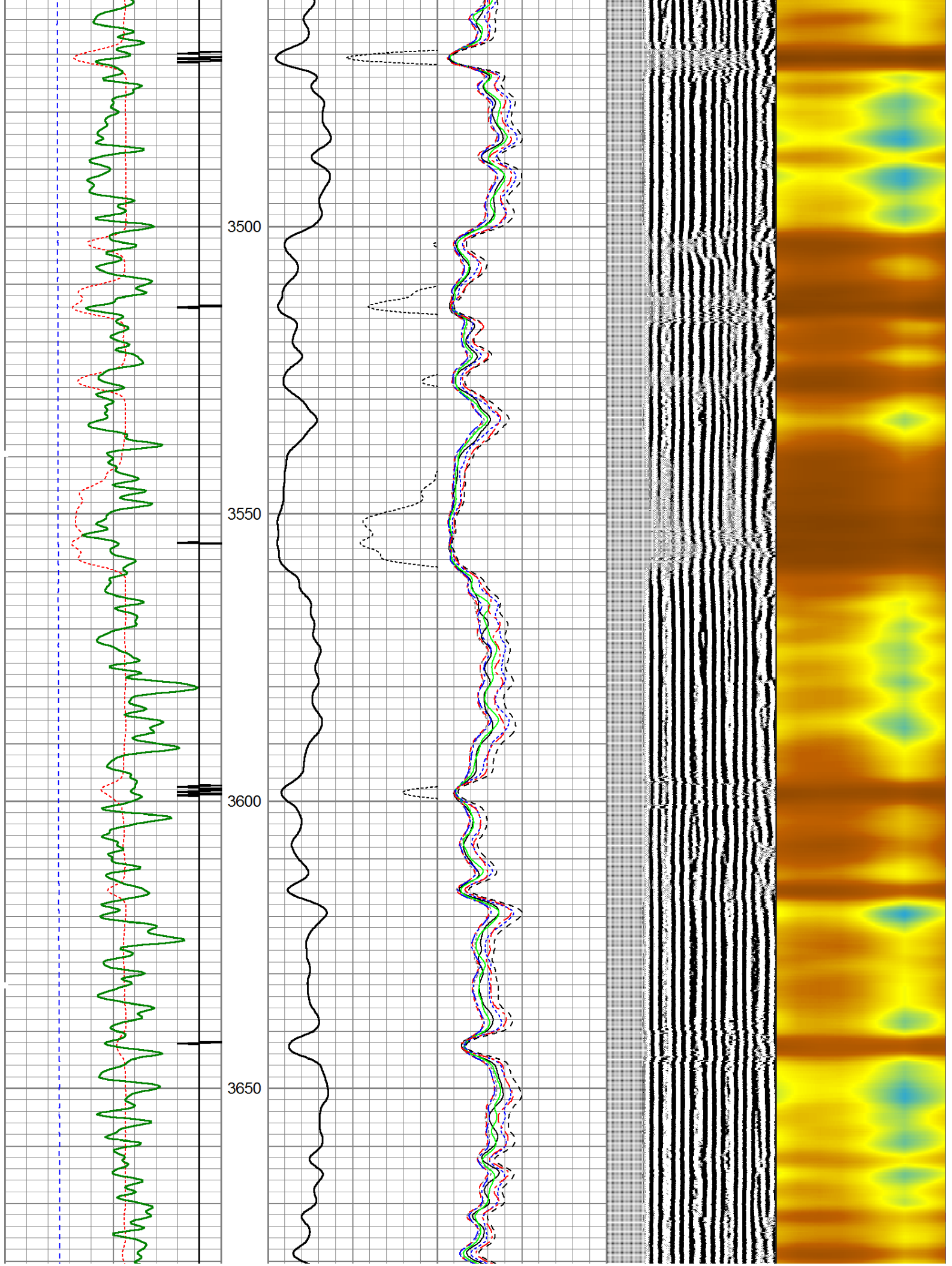




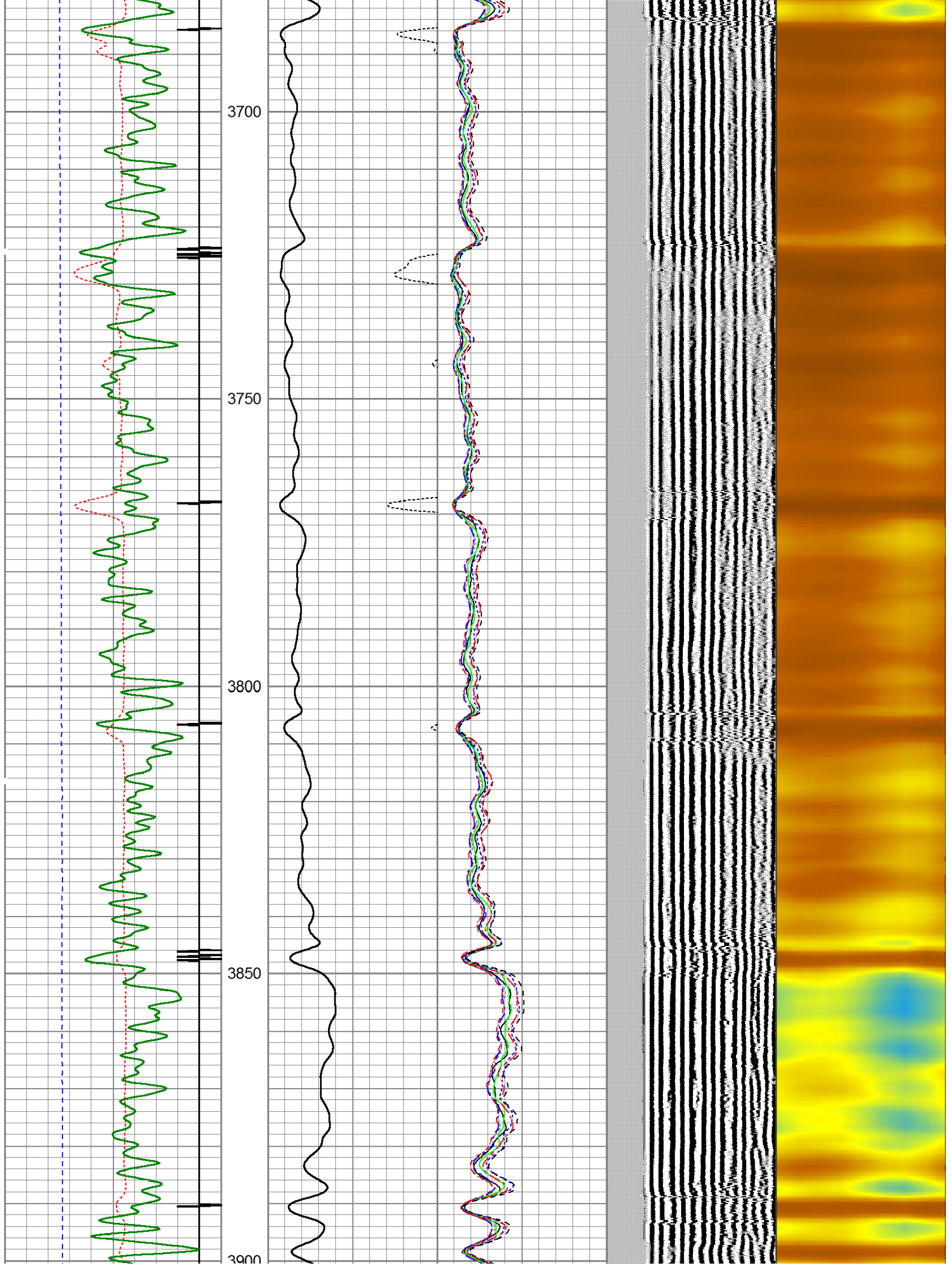


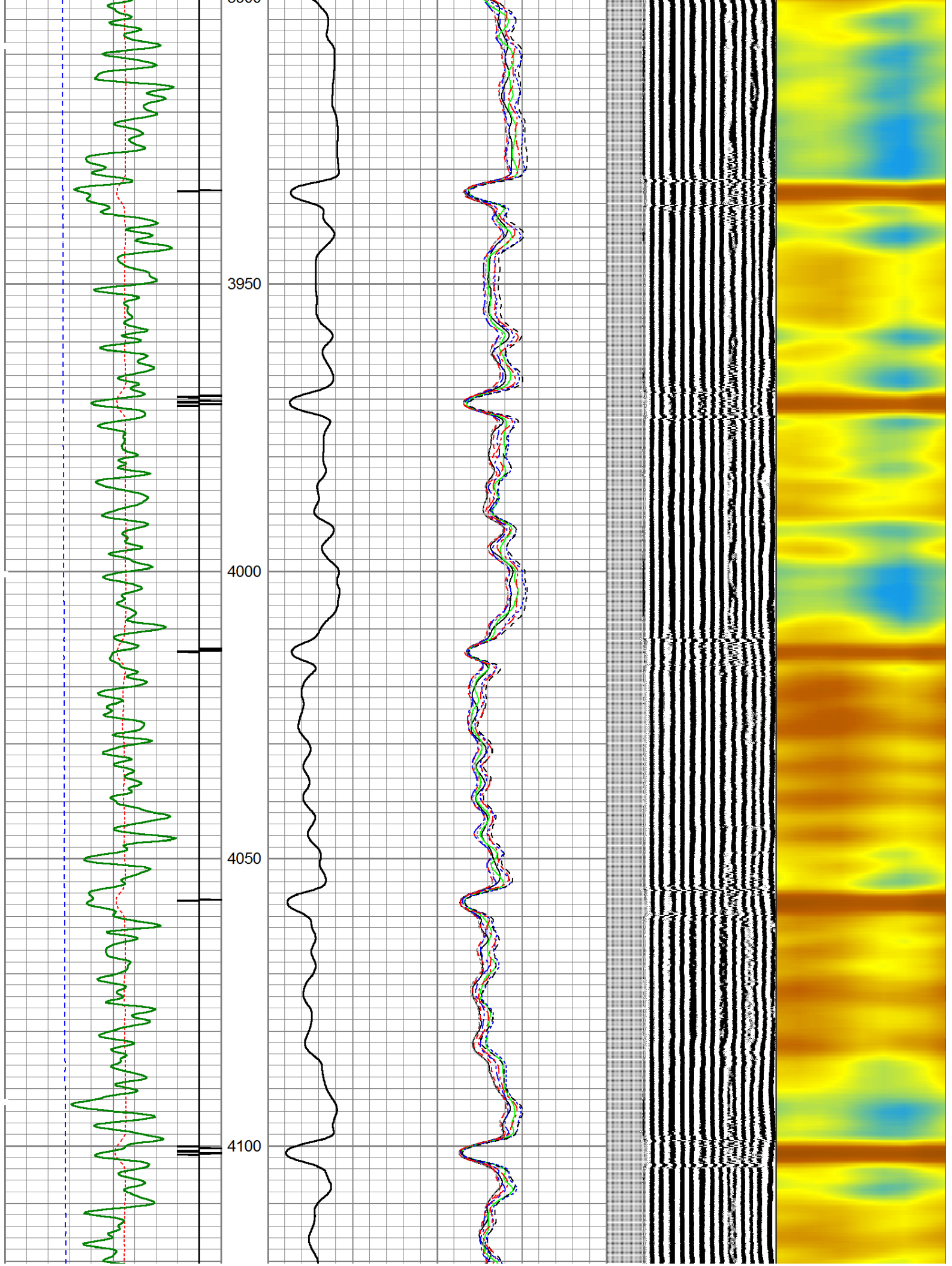




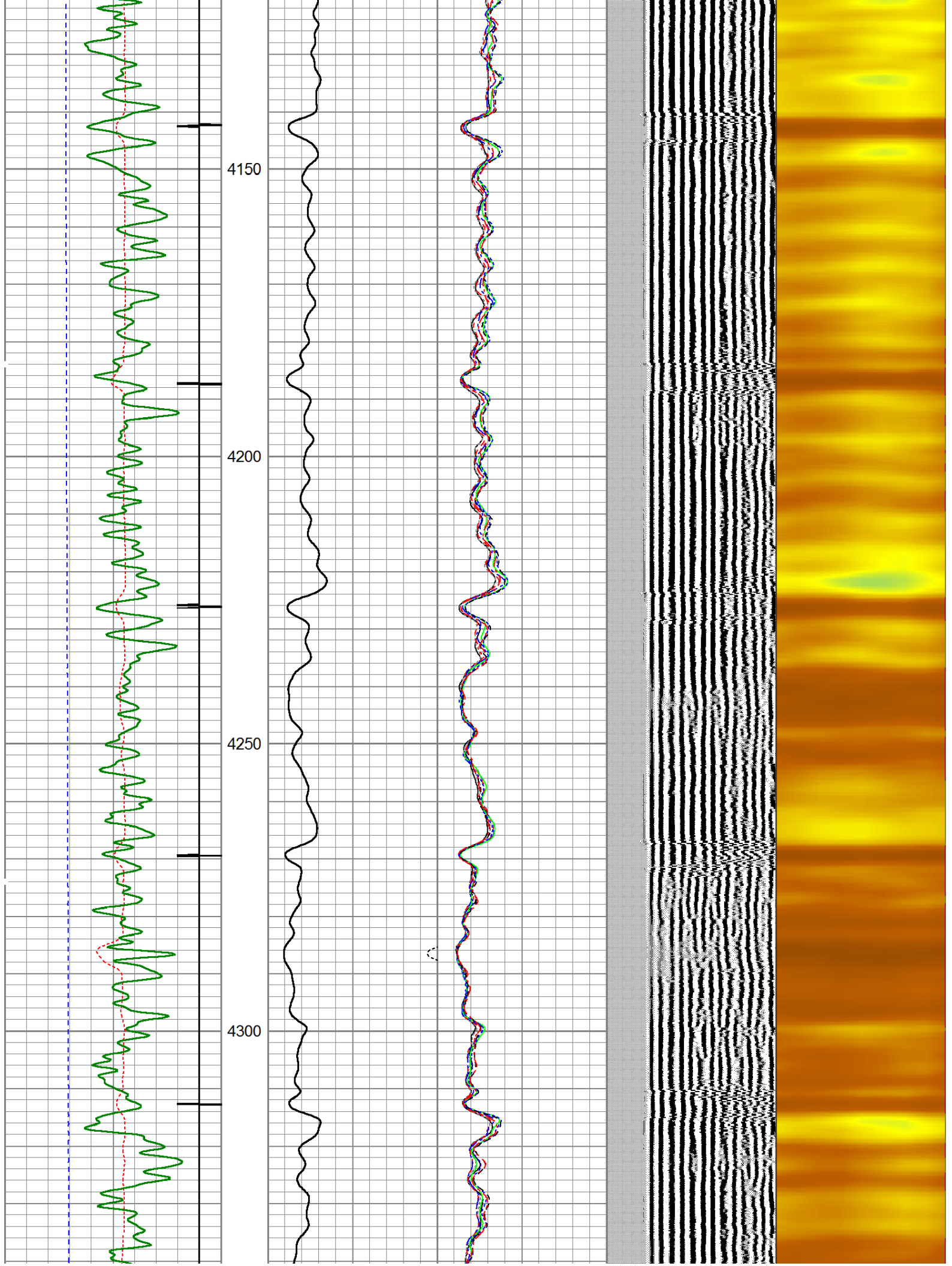


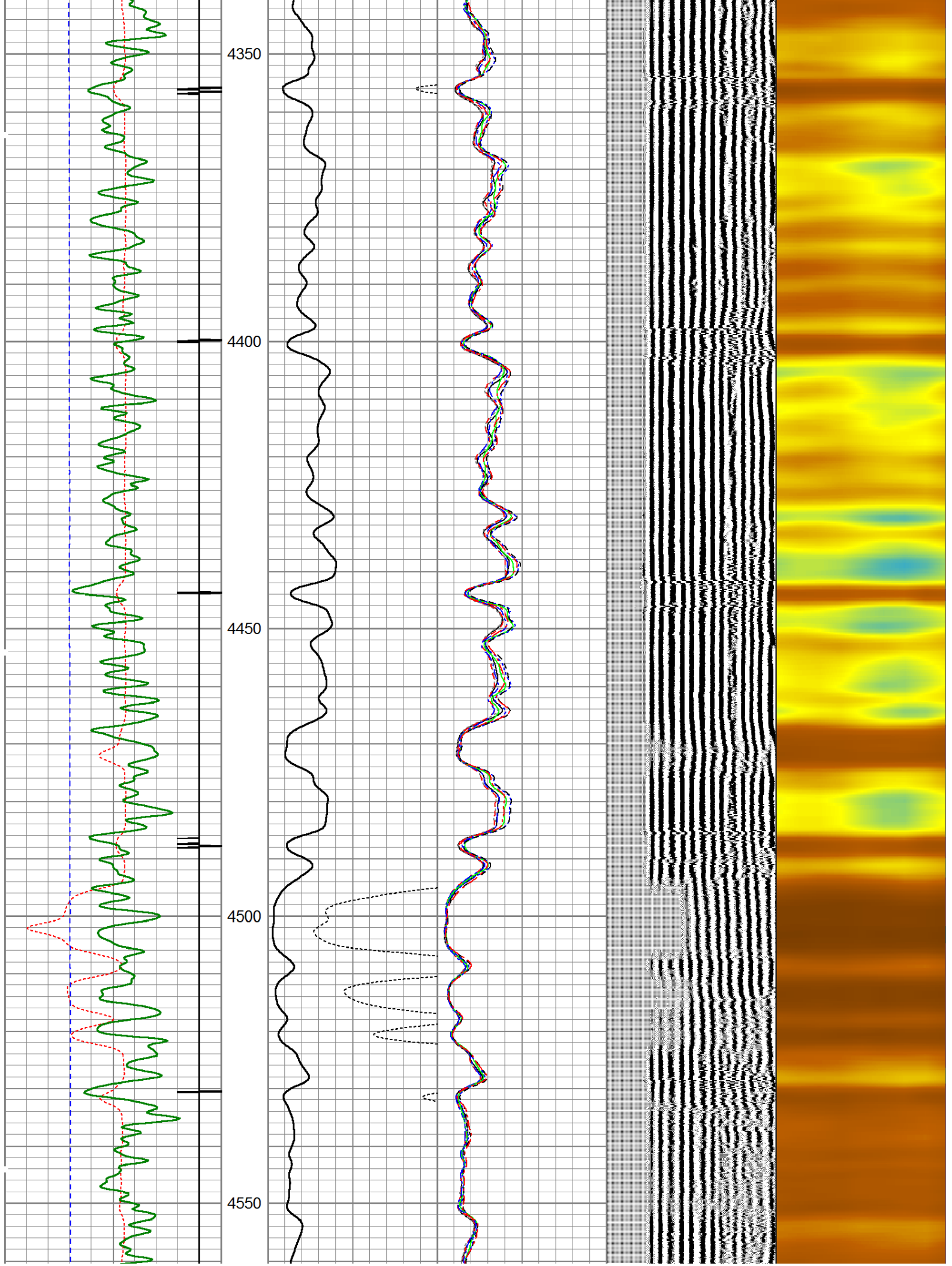




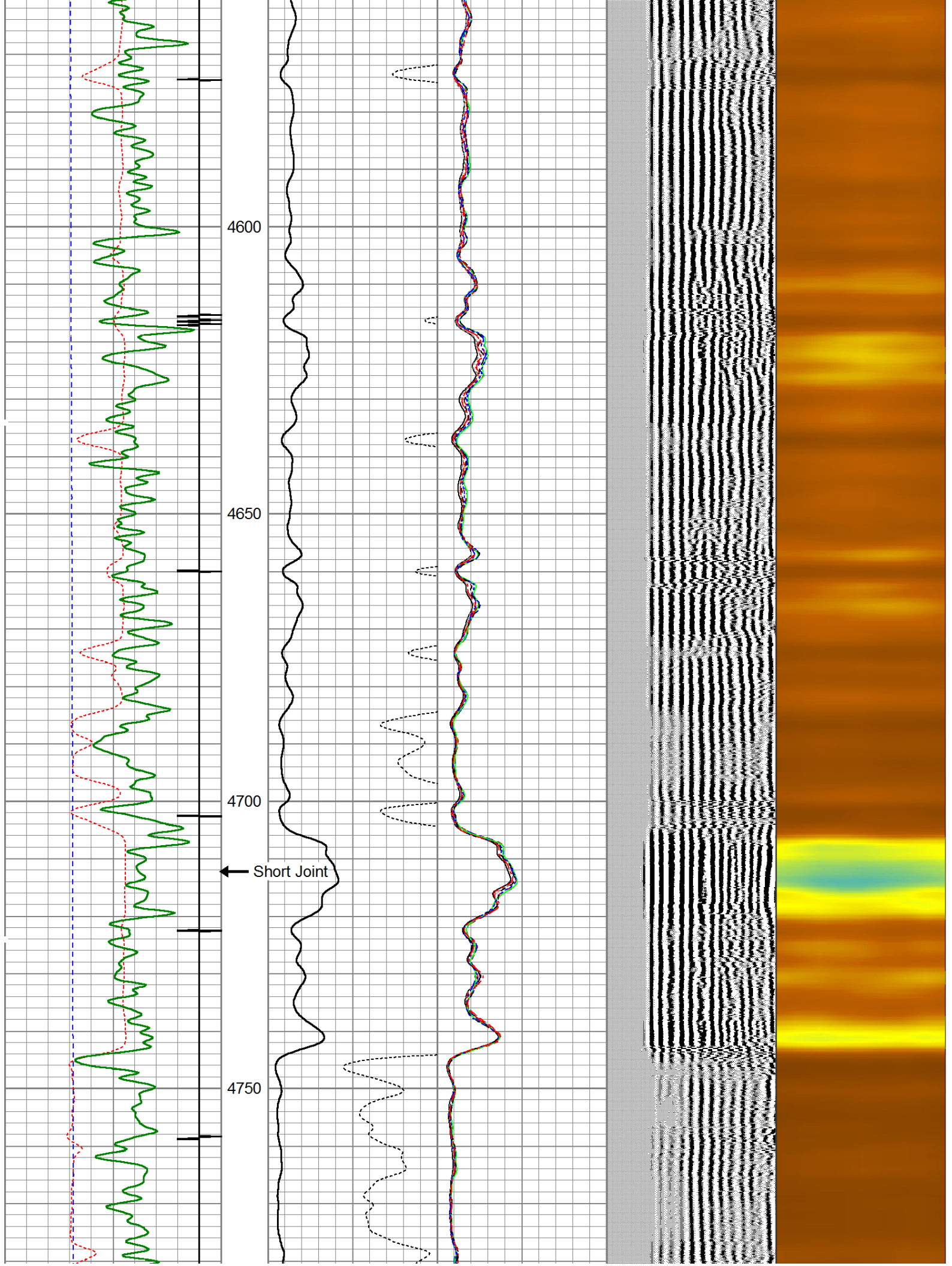


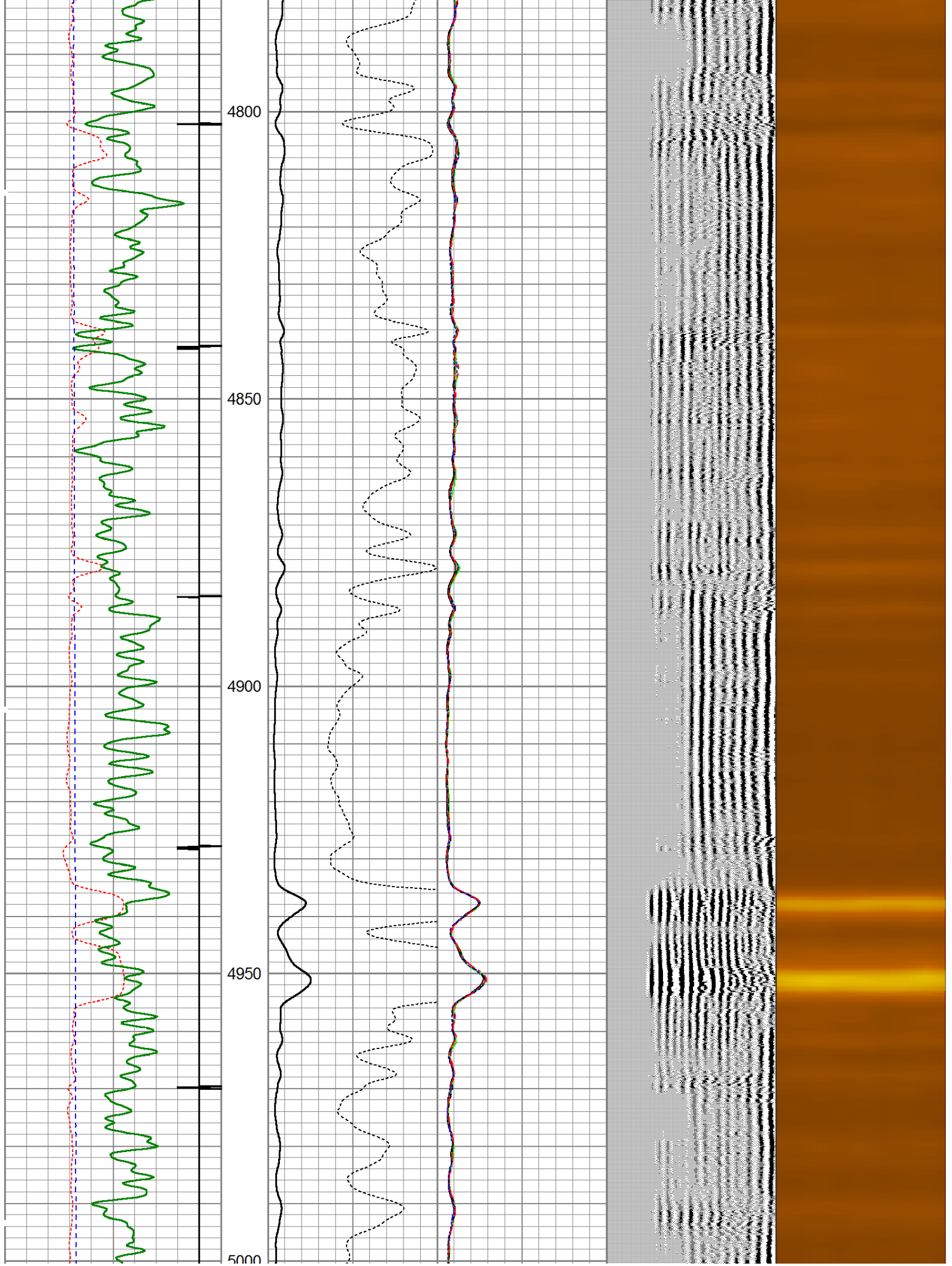




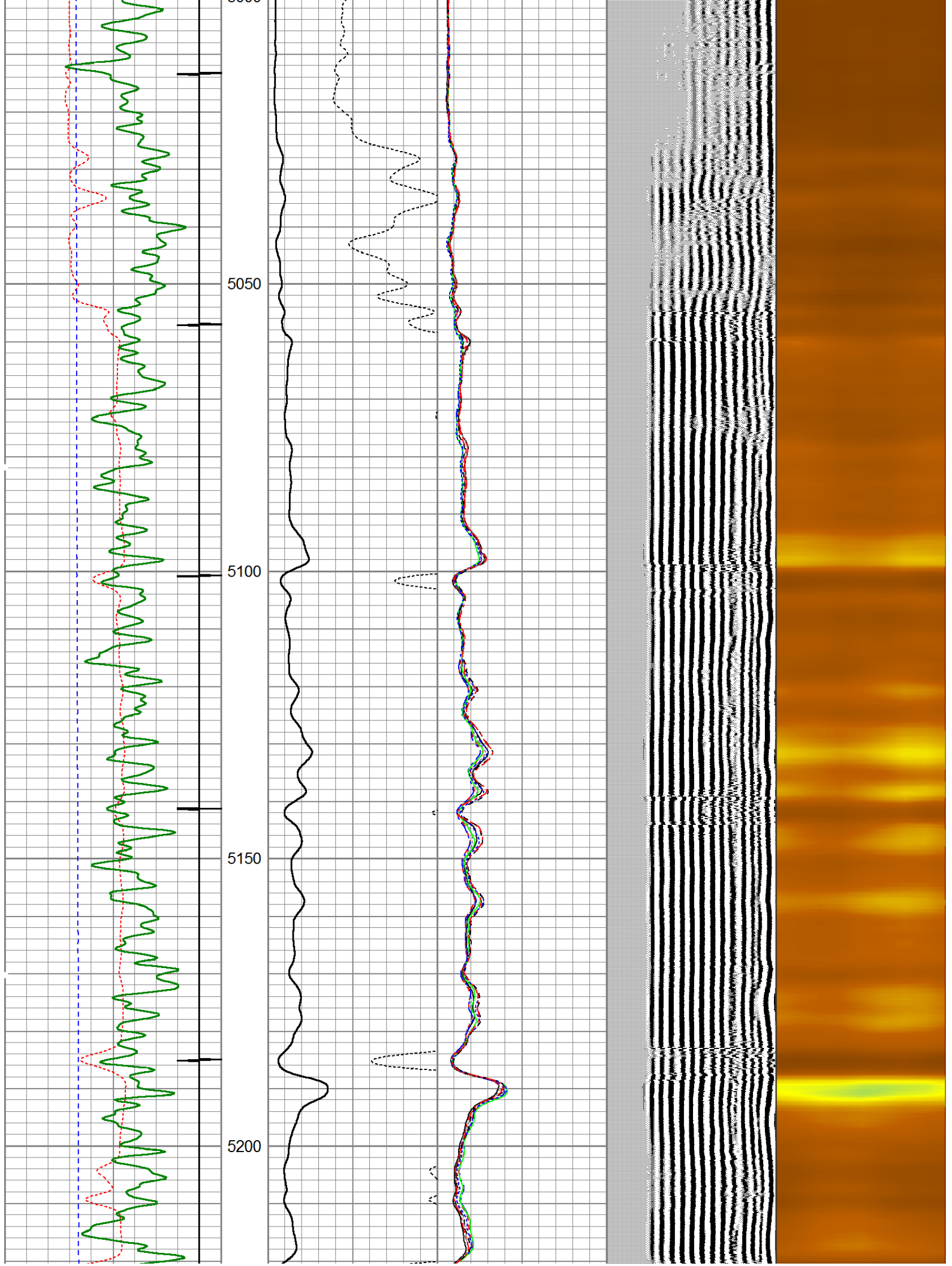


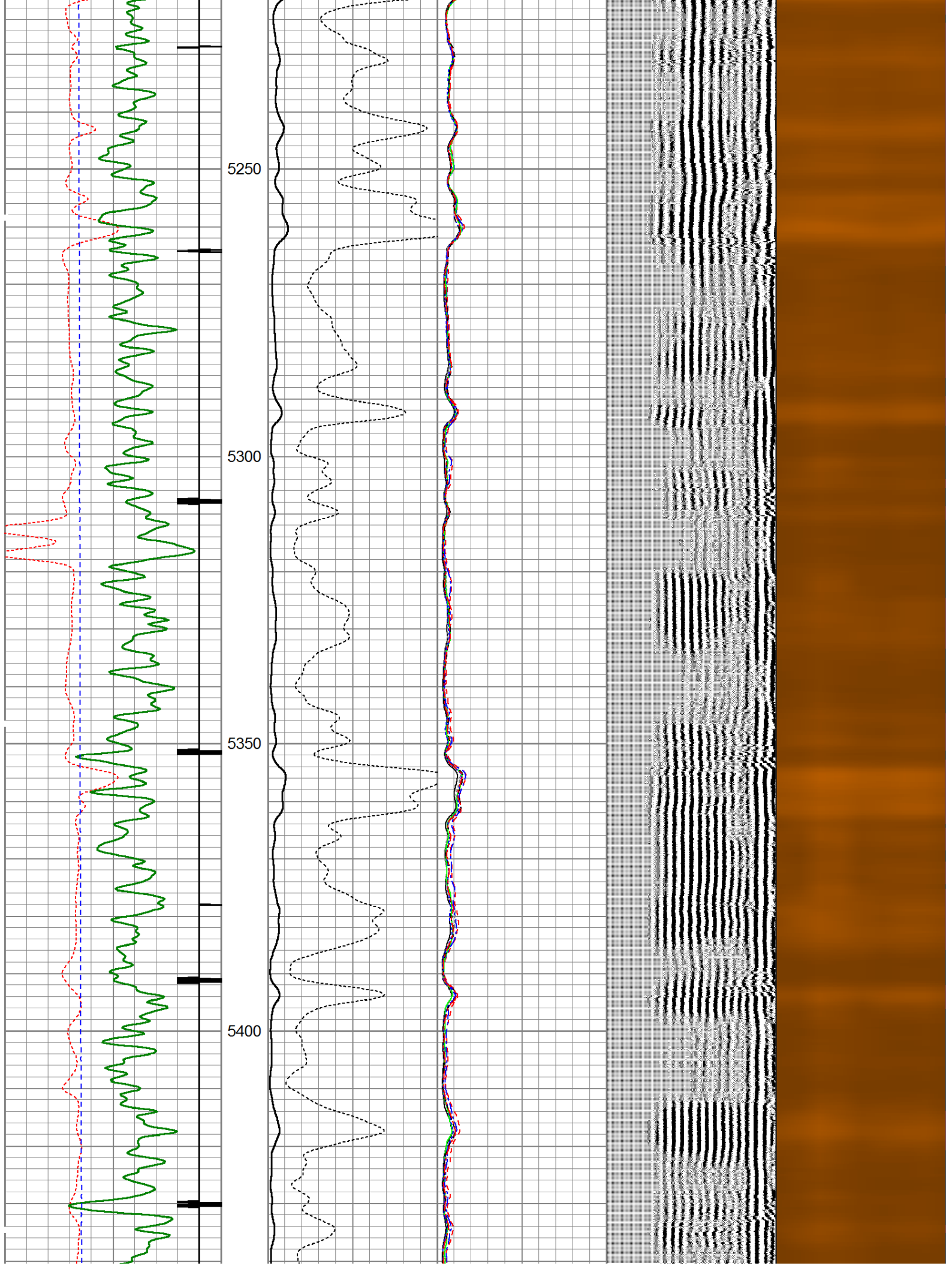




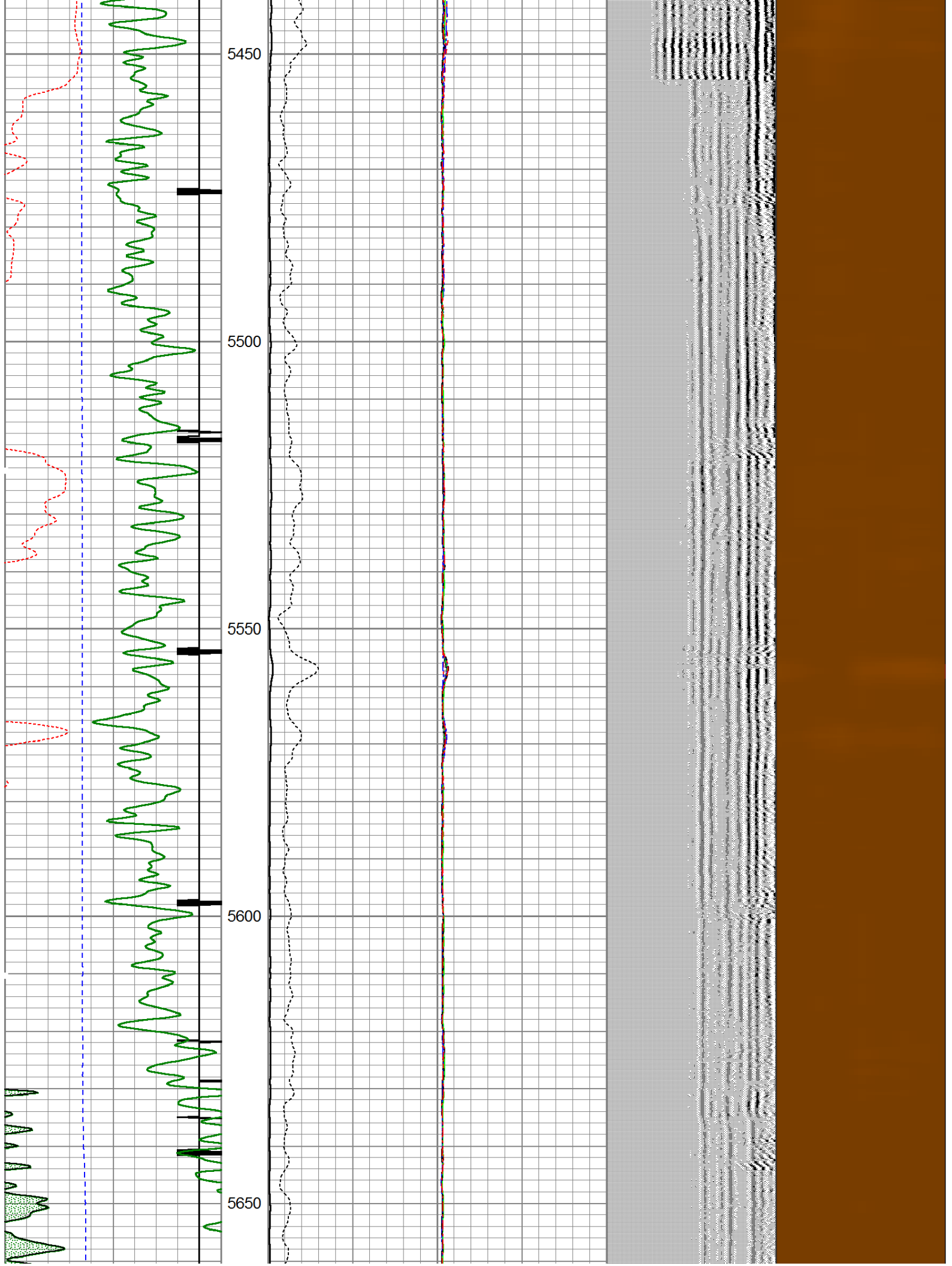




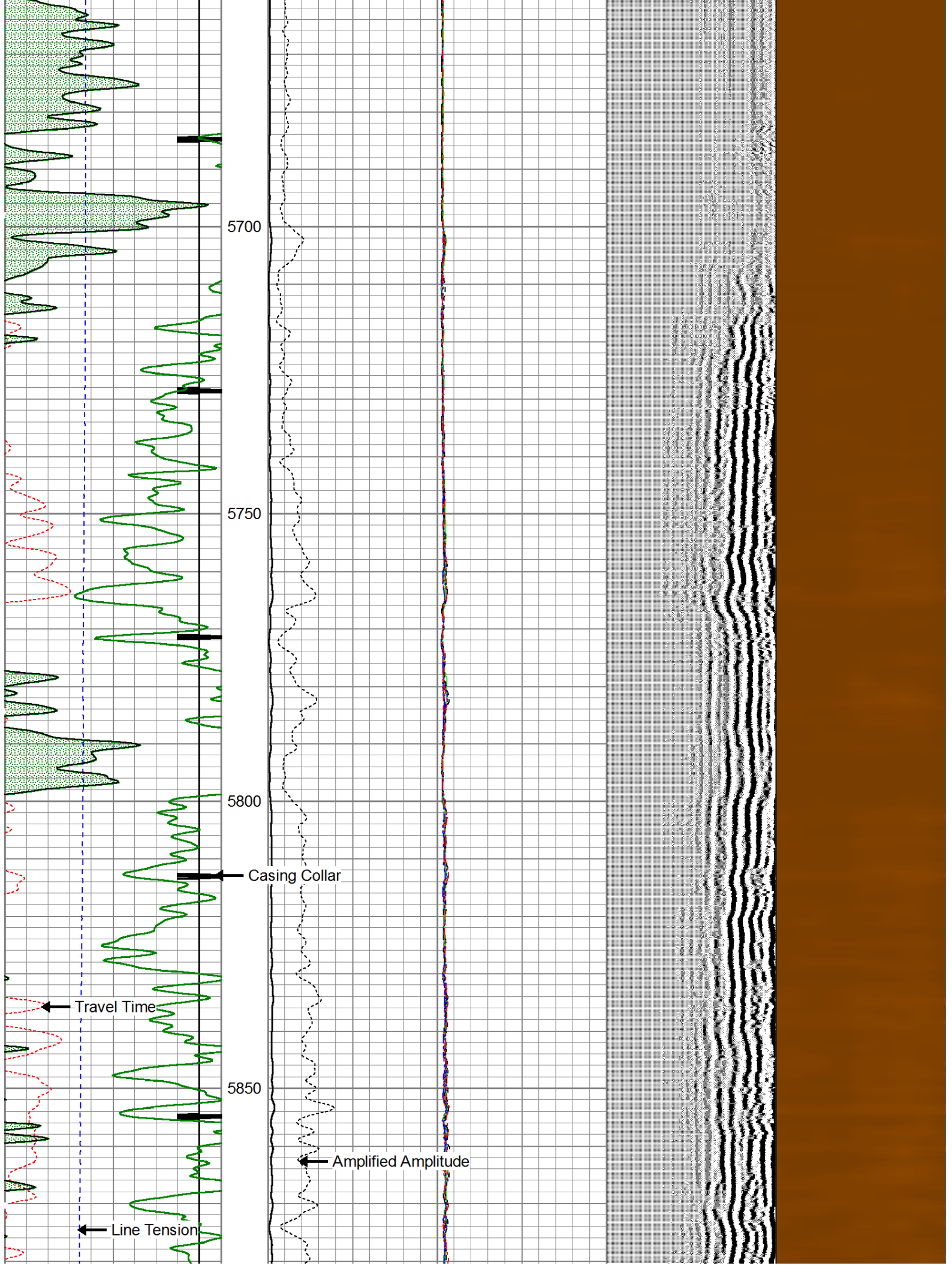


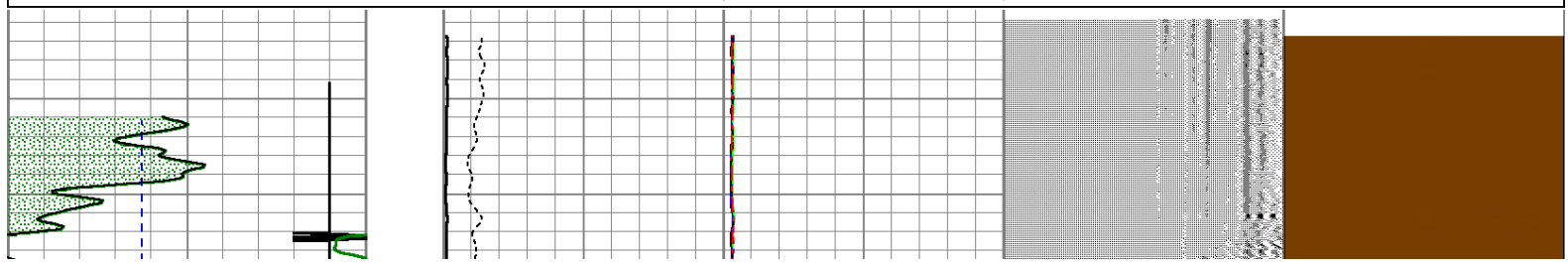
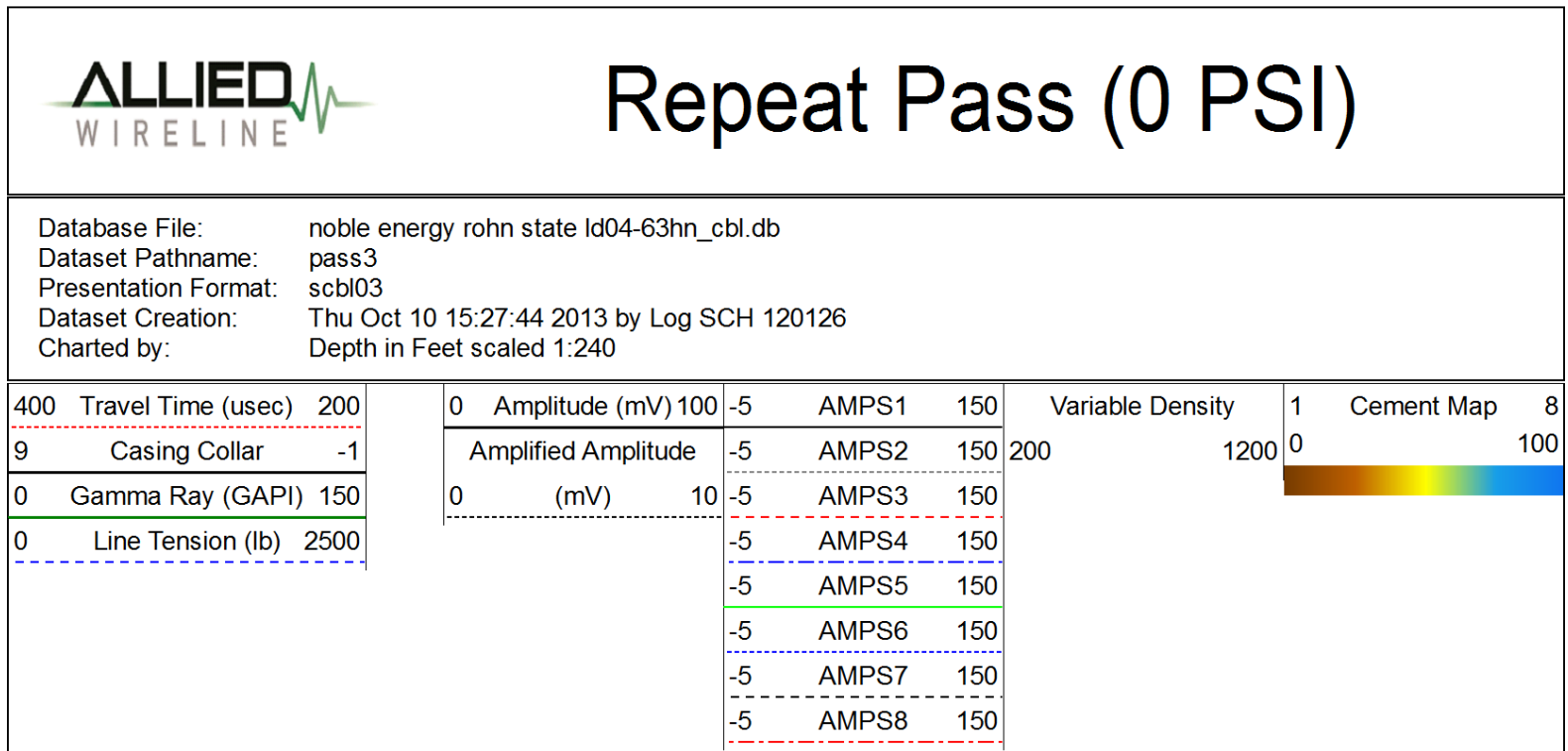
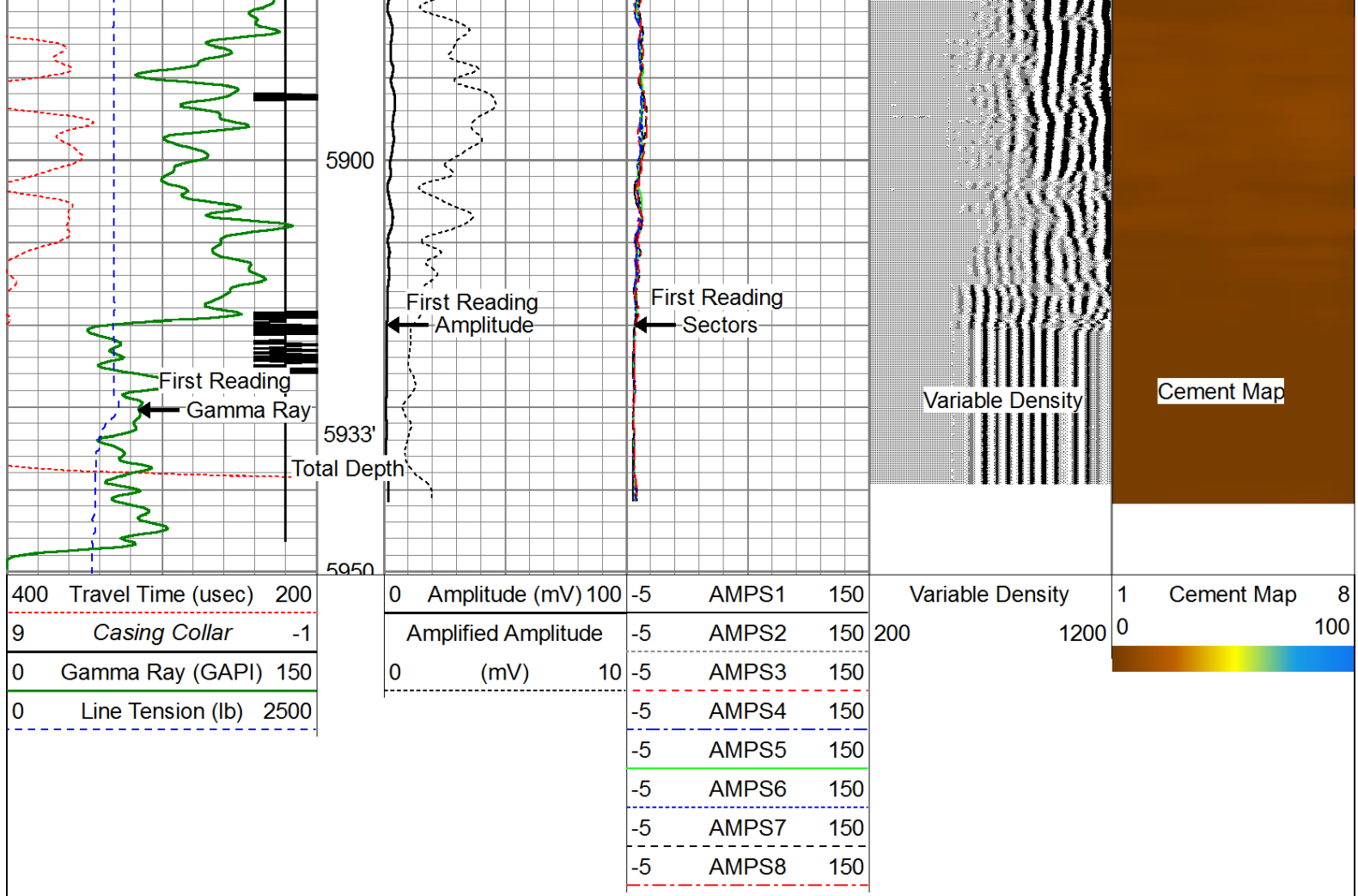




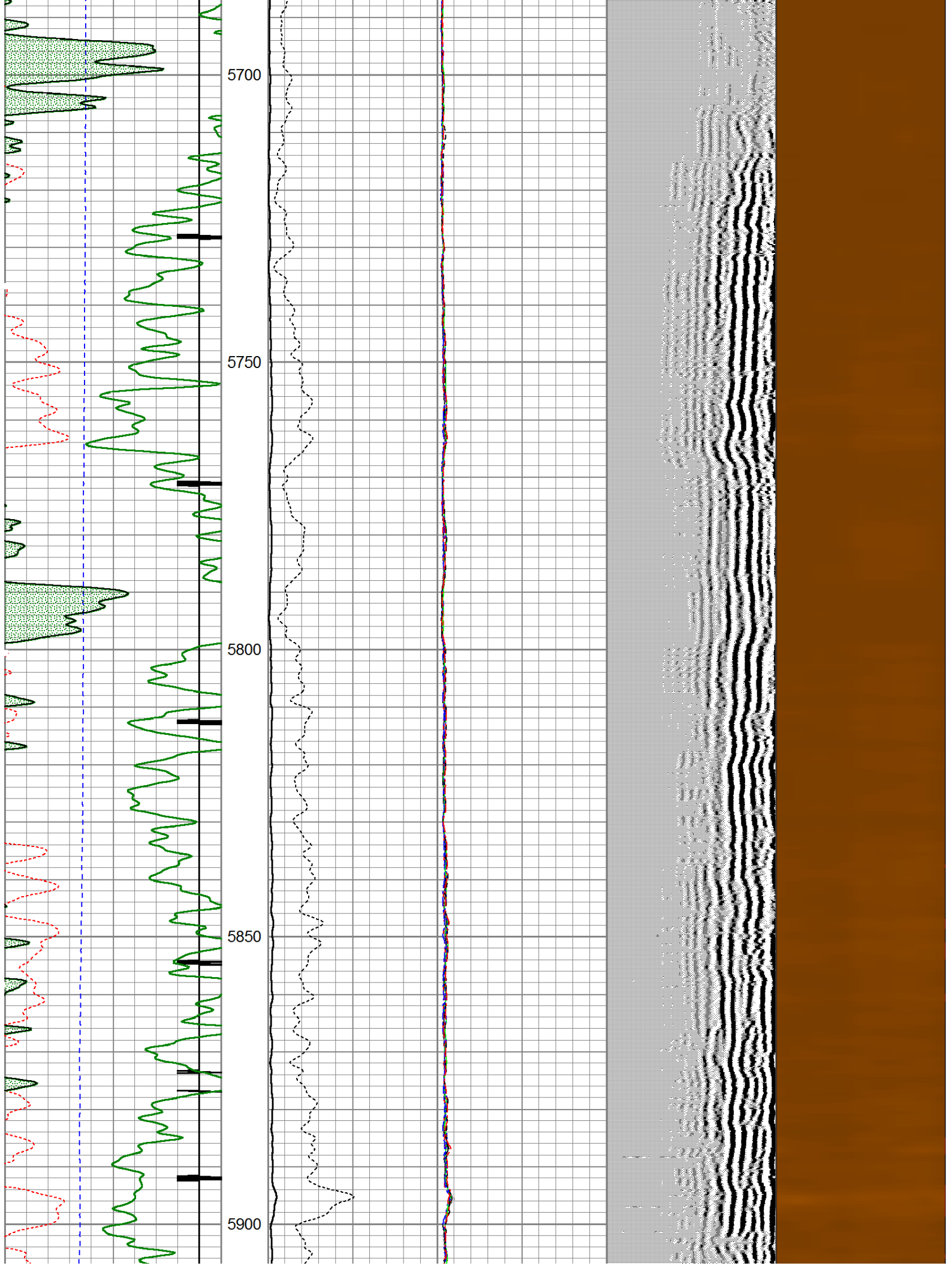
















Serial Number: 111107  
Tool Model: Probe  
  
Calibration Casing Diameter: 7.000 in  
Calibration Depth: 952.462 ft

Master Calibration, performed Thu Oct 10 15:04:32 2013:

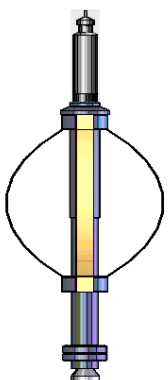
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	0.612	1.000	62.165	98.248	1.997
CAL	-0.017	0.926				
5'	-0.010	0.557	1.000	62.165	107.939	2.065
SUM						
S1	0.002	0.655	0.000	100.000	153.302	-0.359
S2	-0.004	0.722	0.000	100.000	137.609	0.601
S3	-0.009	0.728	0.000	100.000	135.658	1.192
S4	-0.008	0.691	0.000	100.000	143.037	1.184
S5	-0.010	0.618	0.000	100.000	159.272	1.618
S6	-0.010	0.551	0.000	100.000	178.277	1.695
S7	-0.011	0.520	0.000	100.000	188.248	2.024
S8	-0.011	0.528	0.000	100.000	185.633	2.026

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	-0.017	0.926	1.000	0.000

Air Zero Calibration, performed Wed Oct 09 08:37:09 2013:

	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)
CHD	20.28		Titan Cable_head	1.00	1.44	10.00
CENT	19.28		Probe275 2.75" Centralizer	2.88	2.75	20.00

Tool Name	Start Depth (ft)	End Depth (ft)	Length (ft)	Weight (lb)	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
CENT	7.66	11.84	4.18	0.00	0.00
GR	4.78	11.84	7.06	0.00	0.00
TEMP	4.00	11.84	7.84	0.00	0.00
CCL	3.88	11.84	8.00	0.00	0.00
GR	2.54	11.84	9.30	0.00	0.00
<p>Dataset: noble energy rohn state ld04-63hn_cbl.db: field/well/run1/pass4</p> <p>Total Length: 20.28 ft</p> <p>Total Weight: 197.00 lb</p> <p>O.D. 2.75 in</p>					