



**RADIAL CEMENT BOND
GAMMA RAY
CCL
TEMP**

**Company OCCIDENTAL PETROLEUM CORP.
Well DAMORE 18-3HZ
Field WATTENBERG
County WELD State COLORADO**

Location:

API # : 05-123-50779

SW NW

SEC 18 TWP 5N RGE 67W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4922'
Log Measured From KELLY BUSHING = 26'
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4948'
D.F. 4947'
G.L. 4922'

Date 16 MAY 2020

Run Number	ONE		
Depth Driller	20480'		
Depth Logger	6478'		
Bottom Logged Interval	6478'		
Top Log Interval	SURFACE		
Open Hole Size	8.50"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	210 DEG F		
Estimated Cement Top	3642'		
Time Well Ready	ROA		
Time Logger on Bottom	07.40		
Equipment Number	W-205		
Location	WINDSOR, CO		
Recorded By	Z. EMICK		
Witnessed By	R. PEVLER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.50"	0'	1878'				
TWO	8.50"	1878'	20480'				
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	9-5/8"		36# J-55		0'		1868'
Prot. String							
Production String	5-1/2"		17# HCP110		0'		20473'
Liner							

<<< 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

LOG CORRELATED TO SHORT JOINT AT 6430' - 6452'

LOG RAN WITH 0 PSI ON CASING.

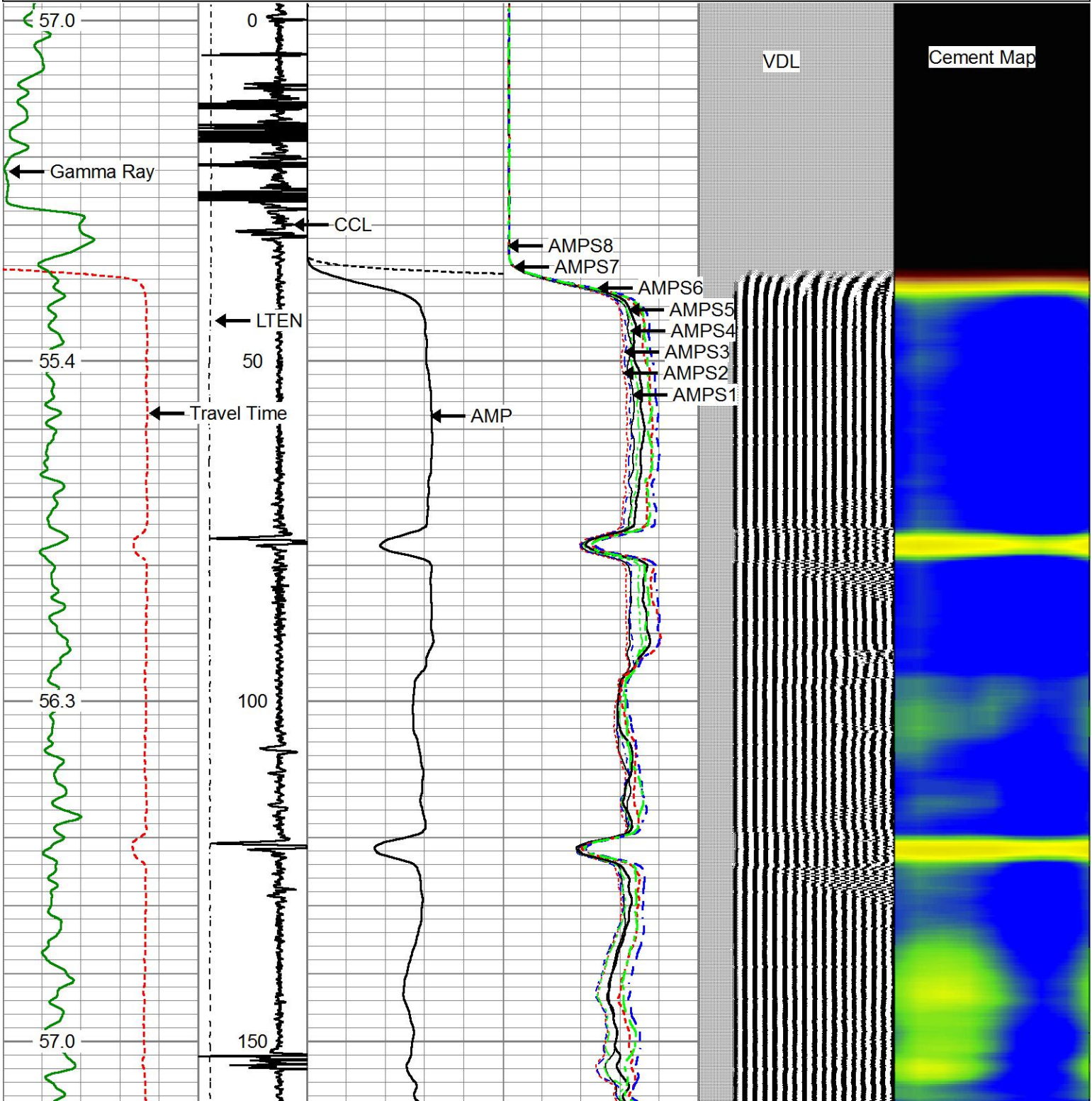
THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE.

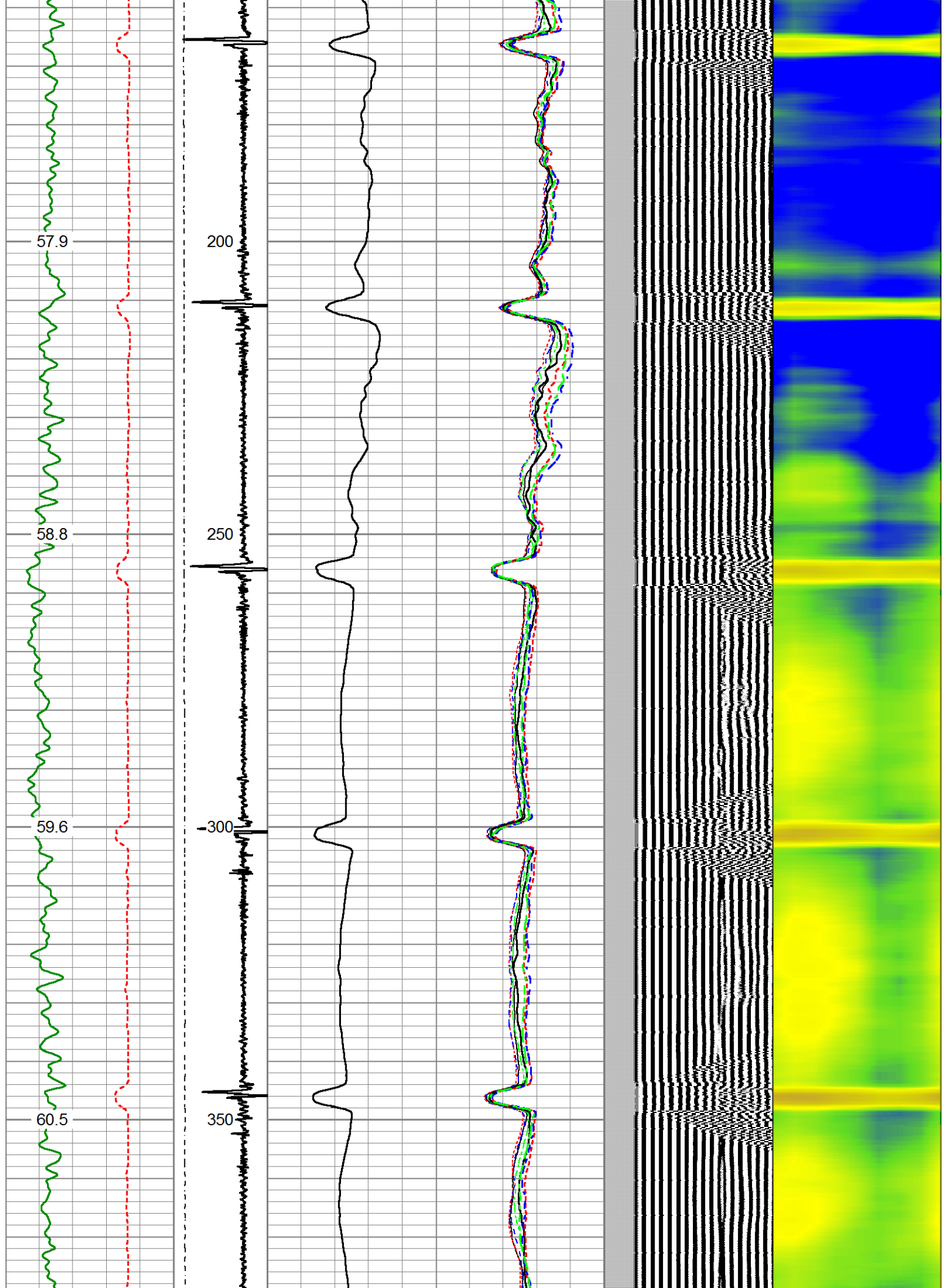


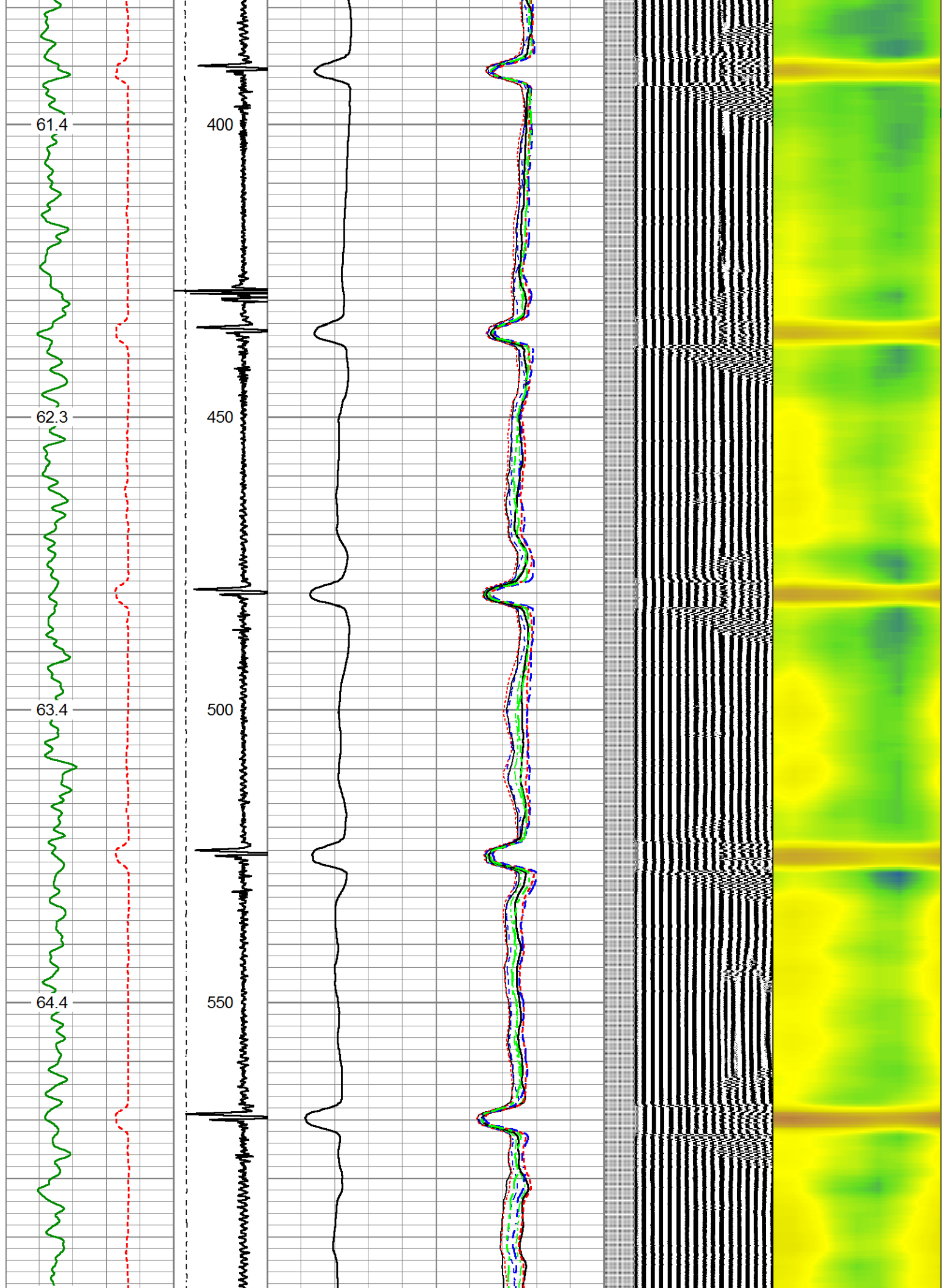
MAIN PASS, 0 PSI

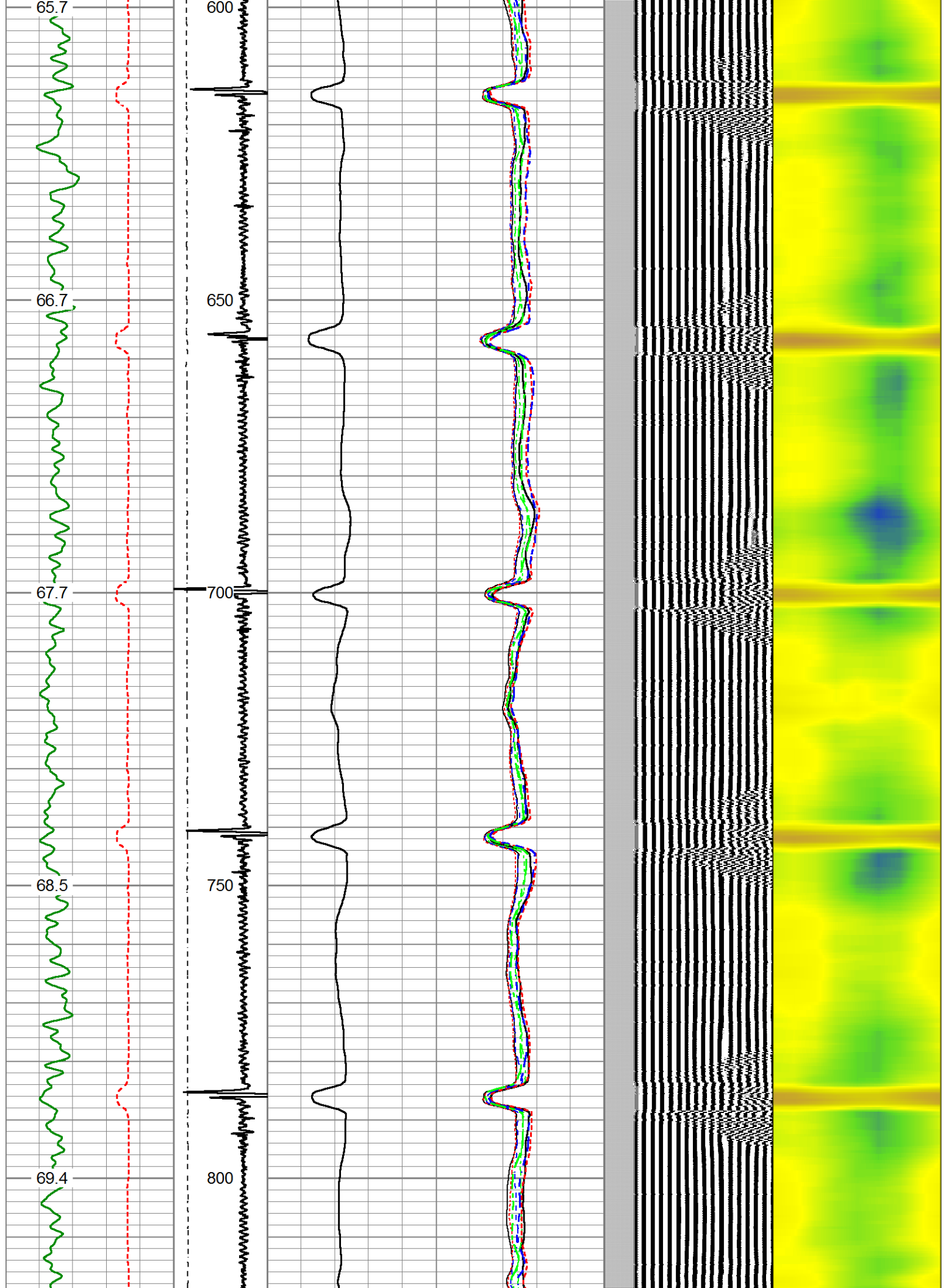
5" = 100'

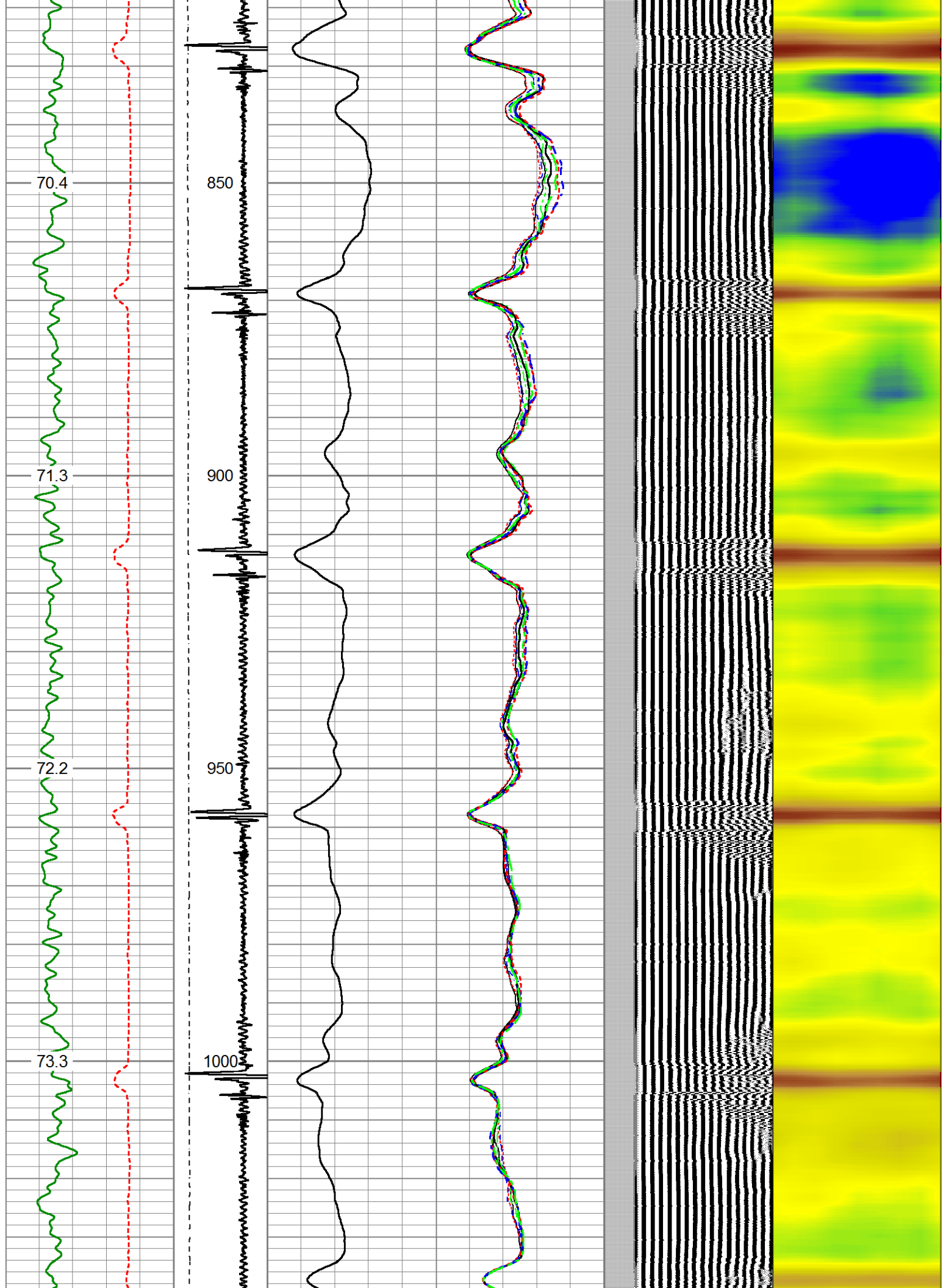
Travel Time	-3	CCL	1	0	AMP (mV)	100	-5	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
343 (usec)	243	LTEN	0	AMPx10 (mV)	10	-5	AMPS2	150							
Gamma Ray	0	(lb/3000)				-5	AMPS3	150							
0 (GAPI)	200					-5	AMPS4	150							
TEMP						-5	AMPS5	150							
(degF)						-5	AMPS6	150							
						-5	AMPS7	150							
						-5	AMPS8	150							

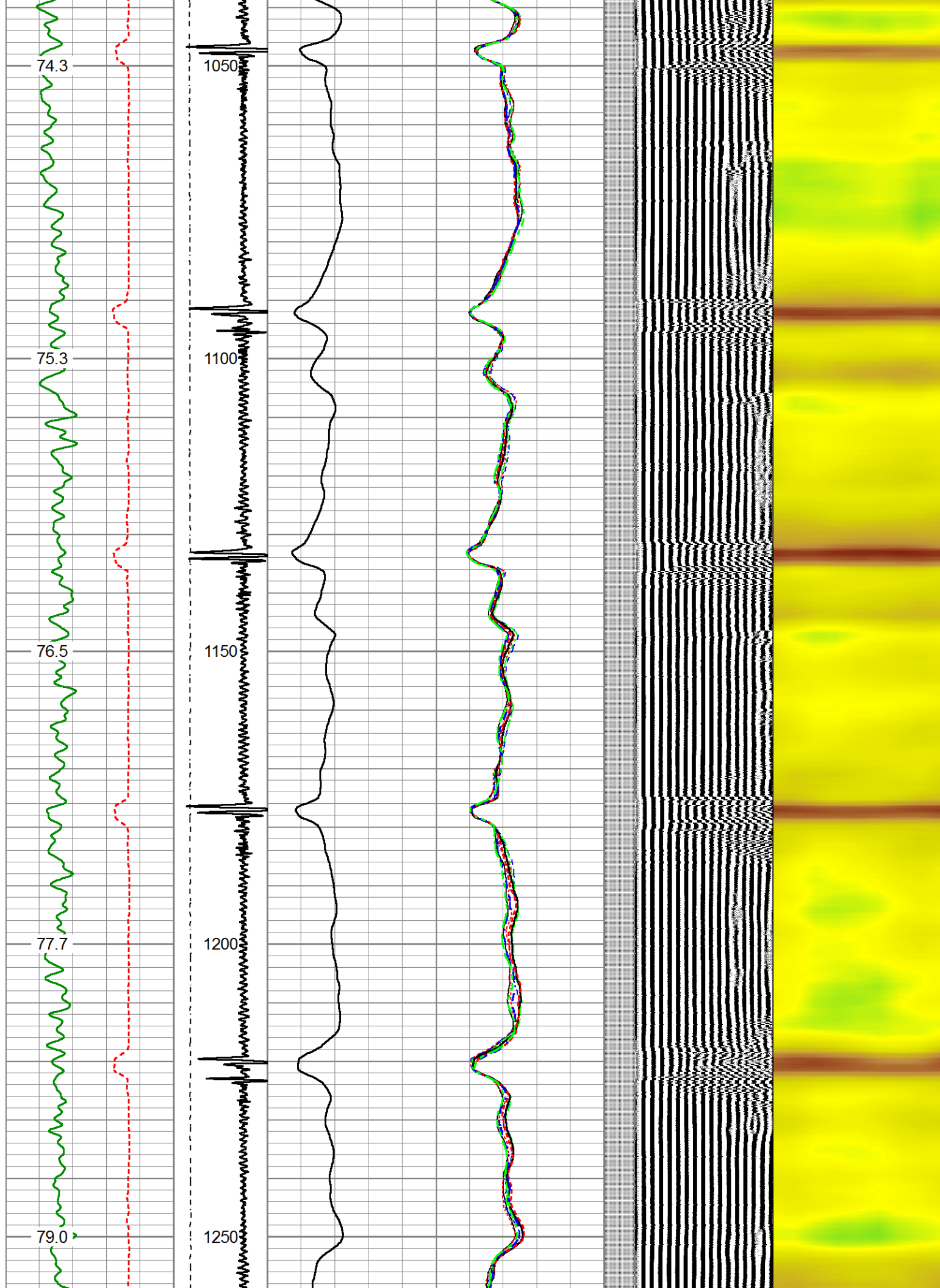


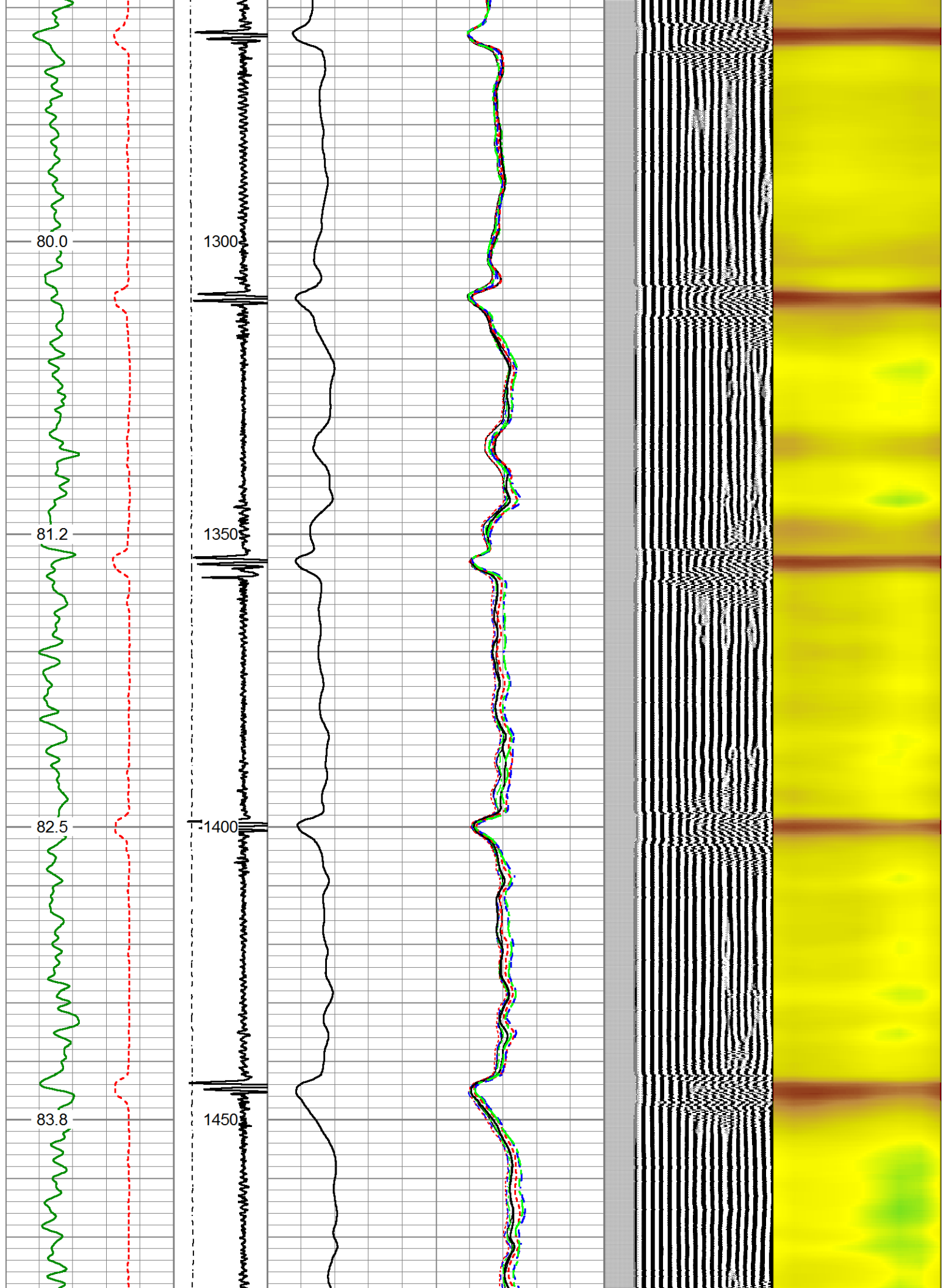


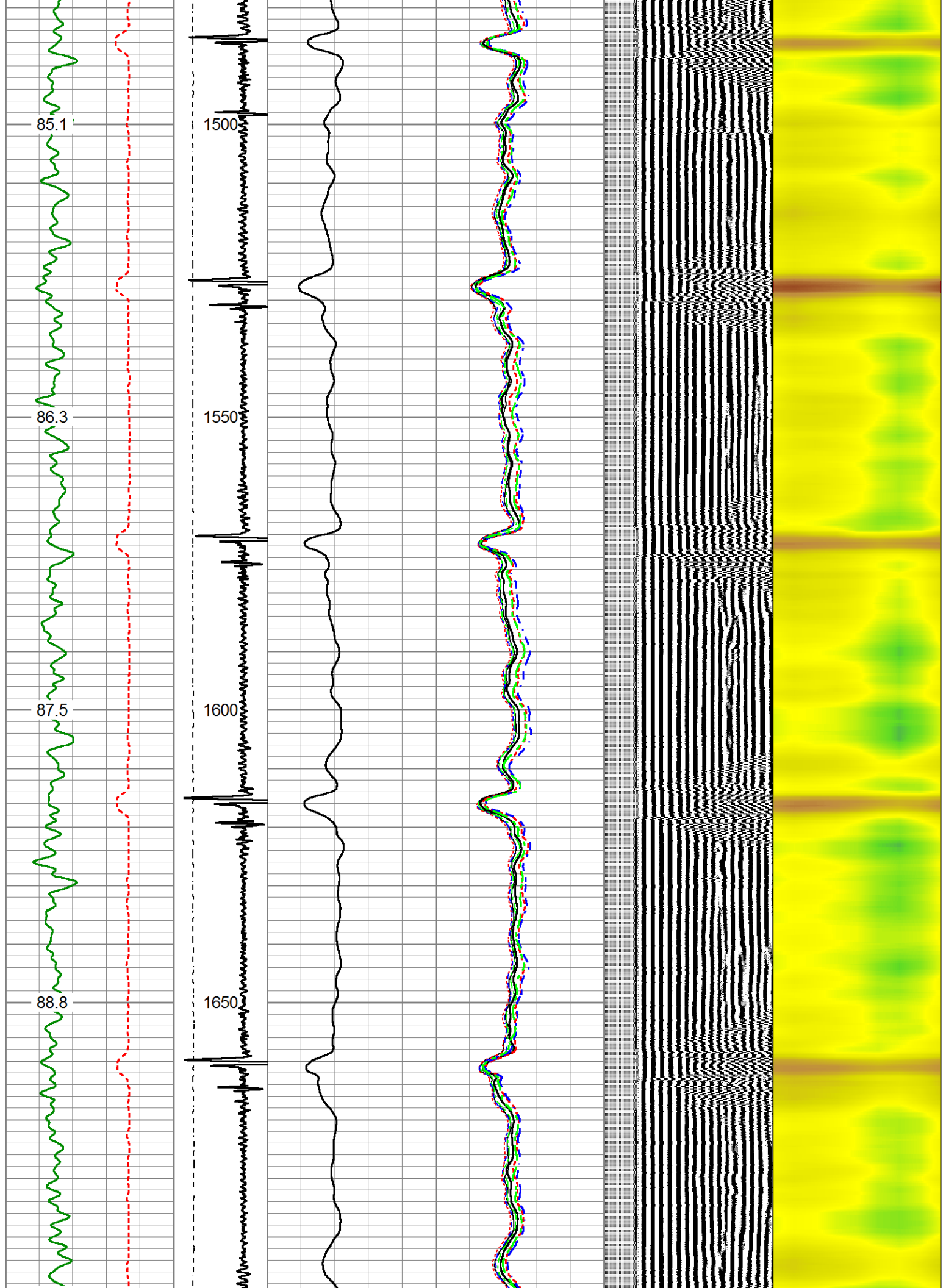


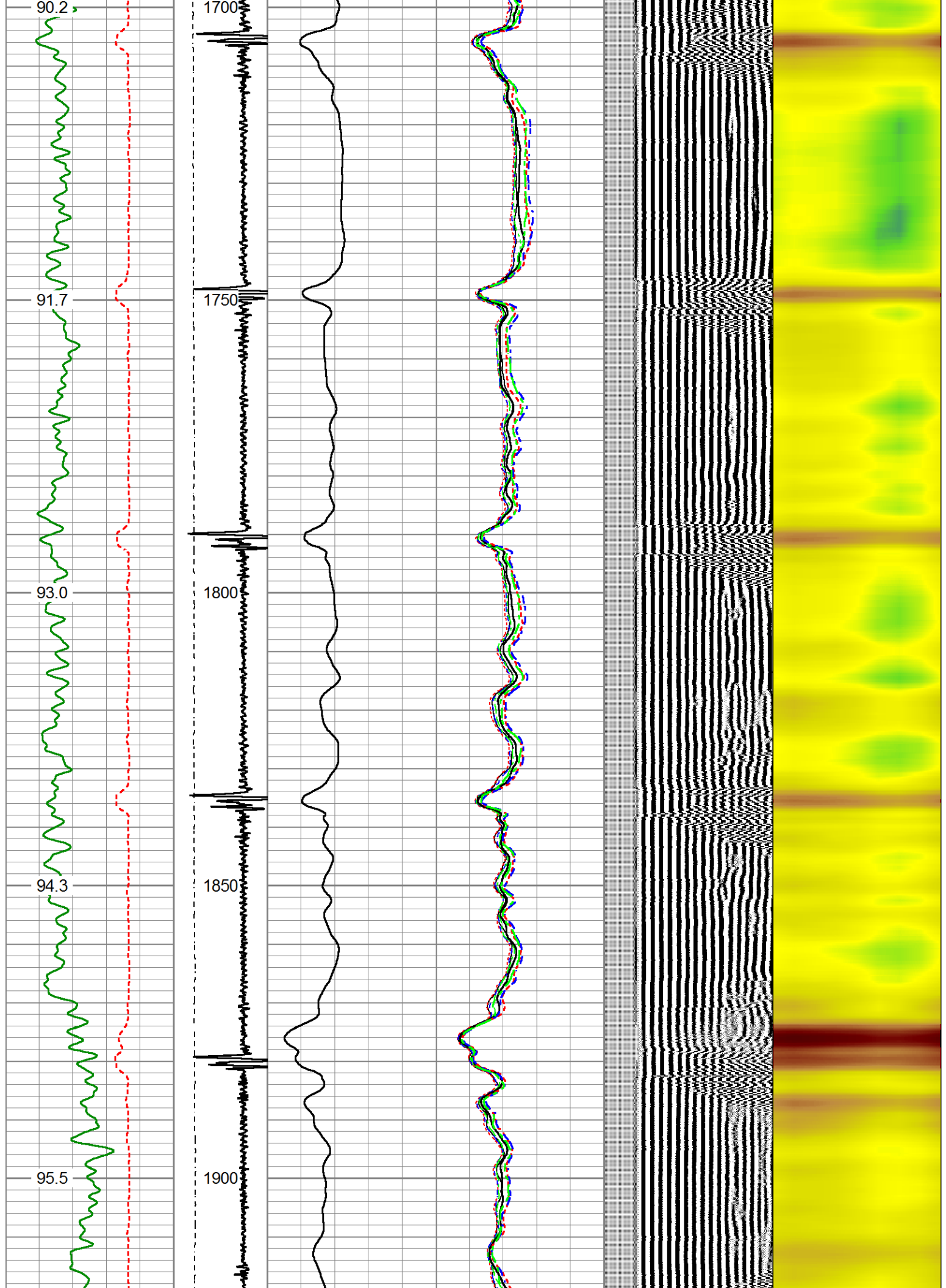


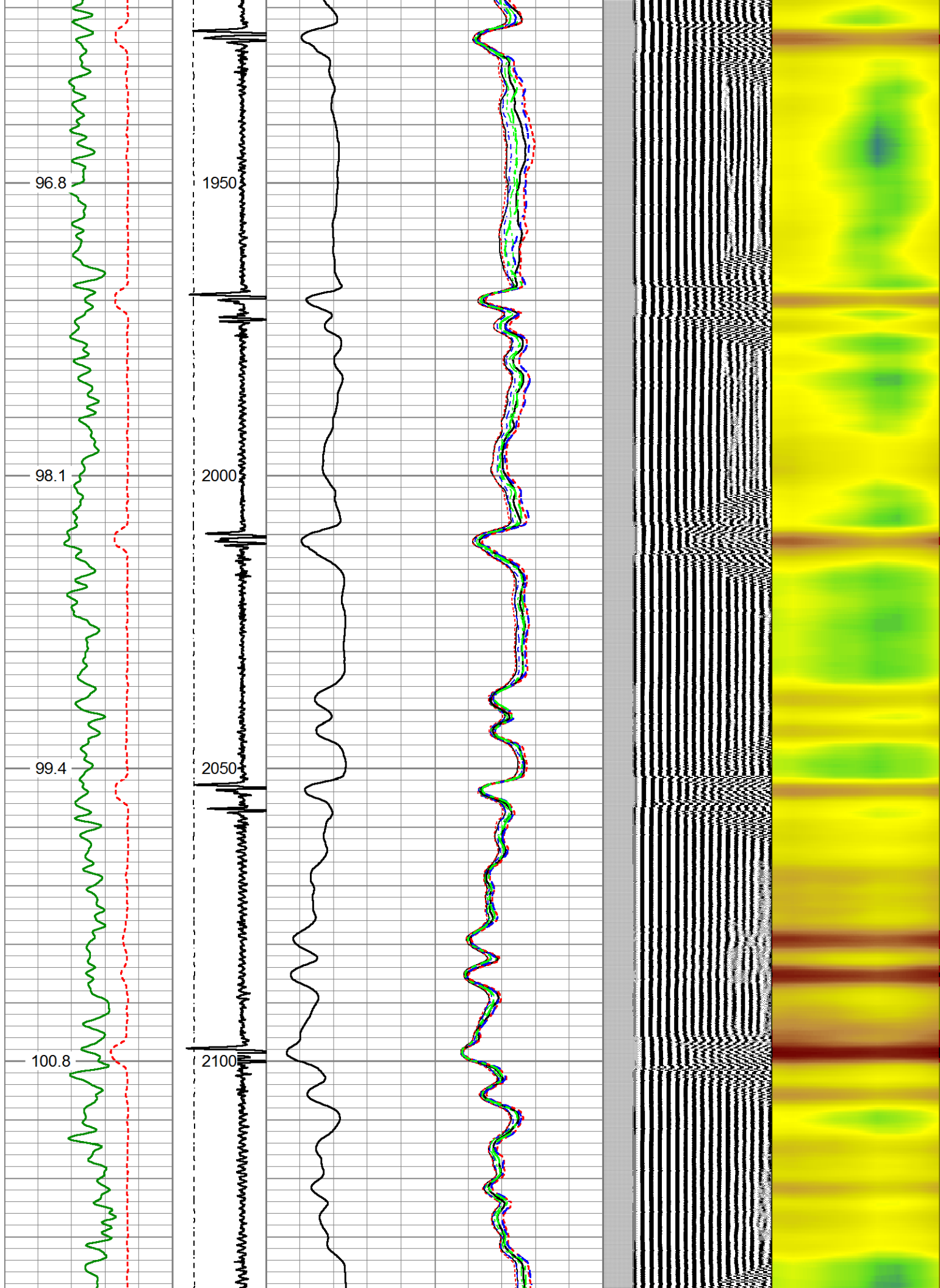


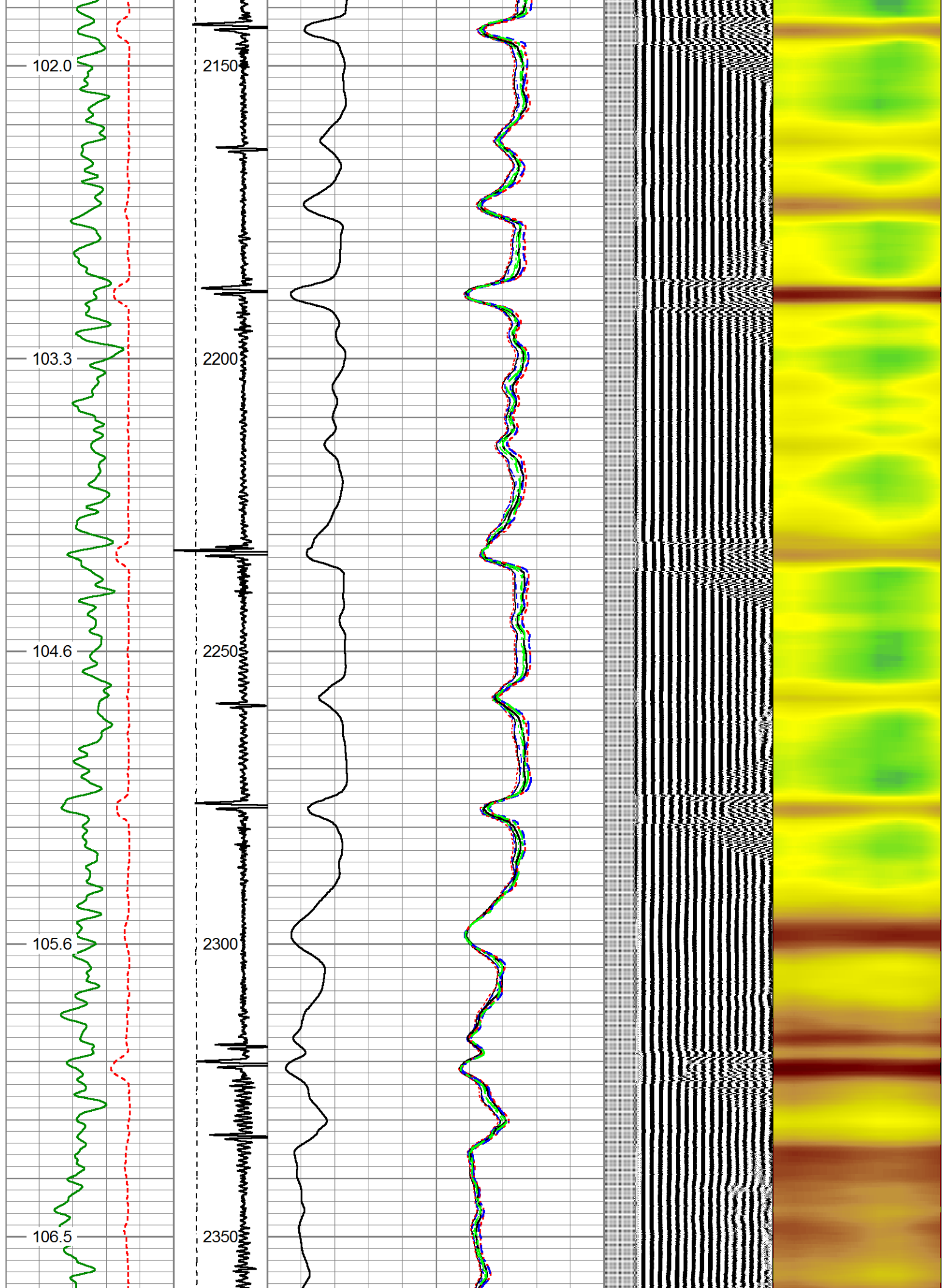


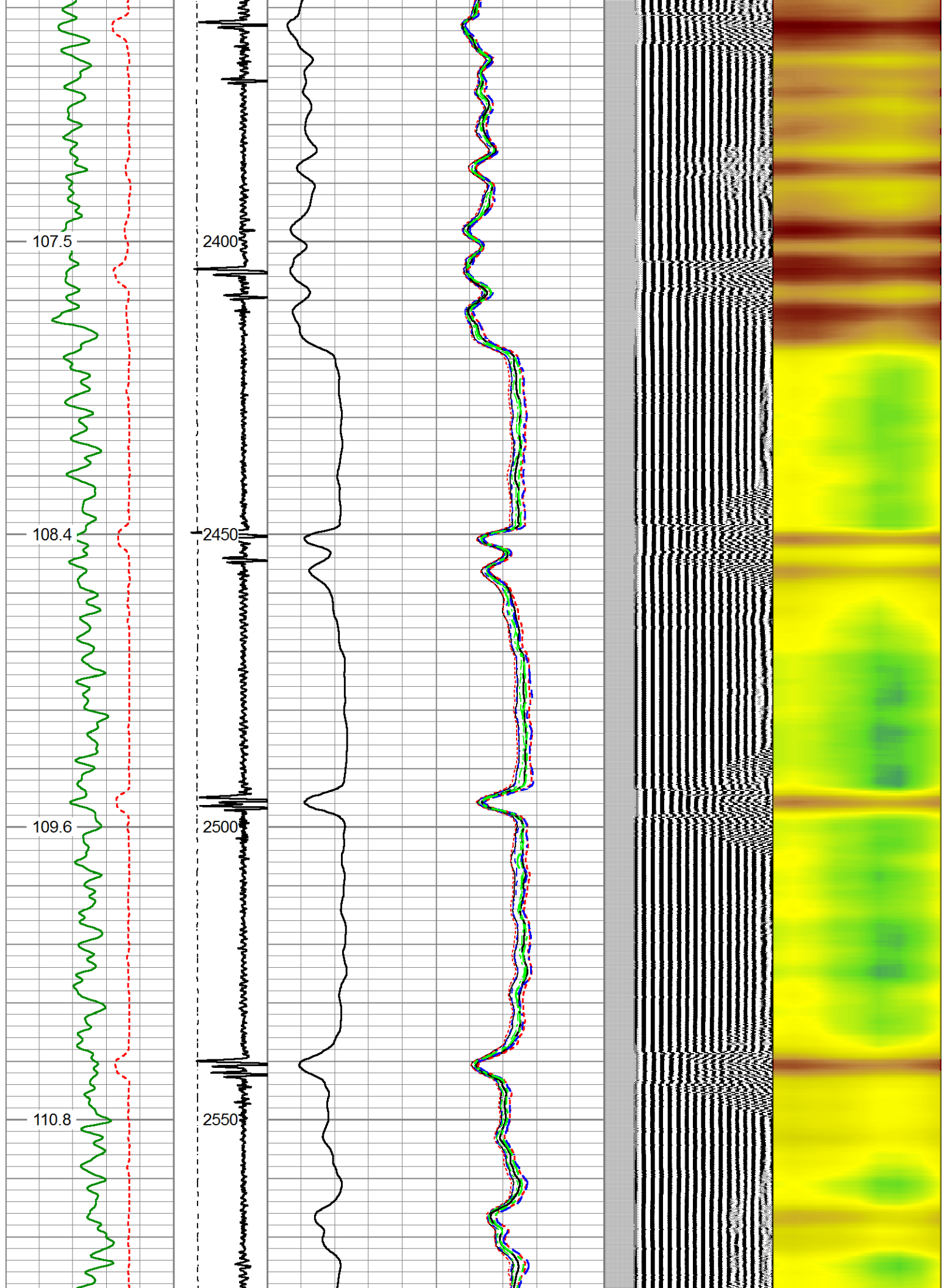


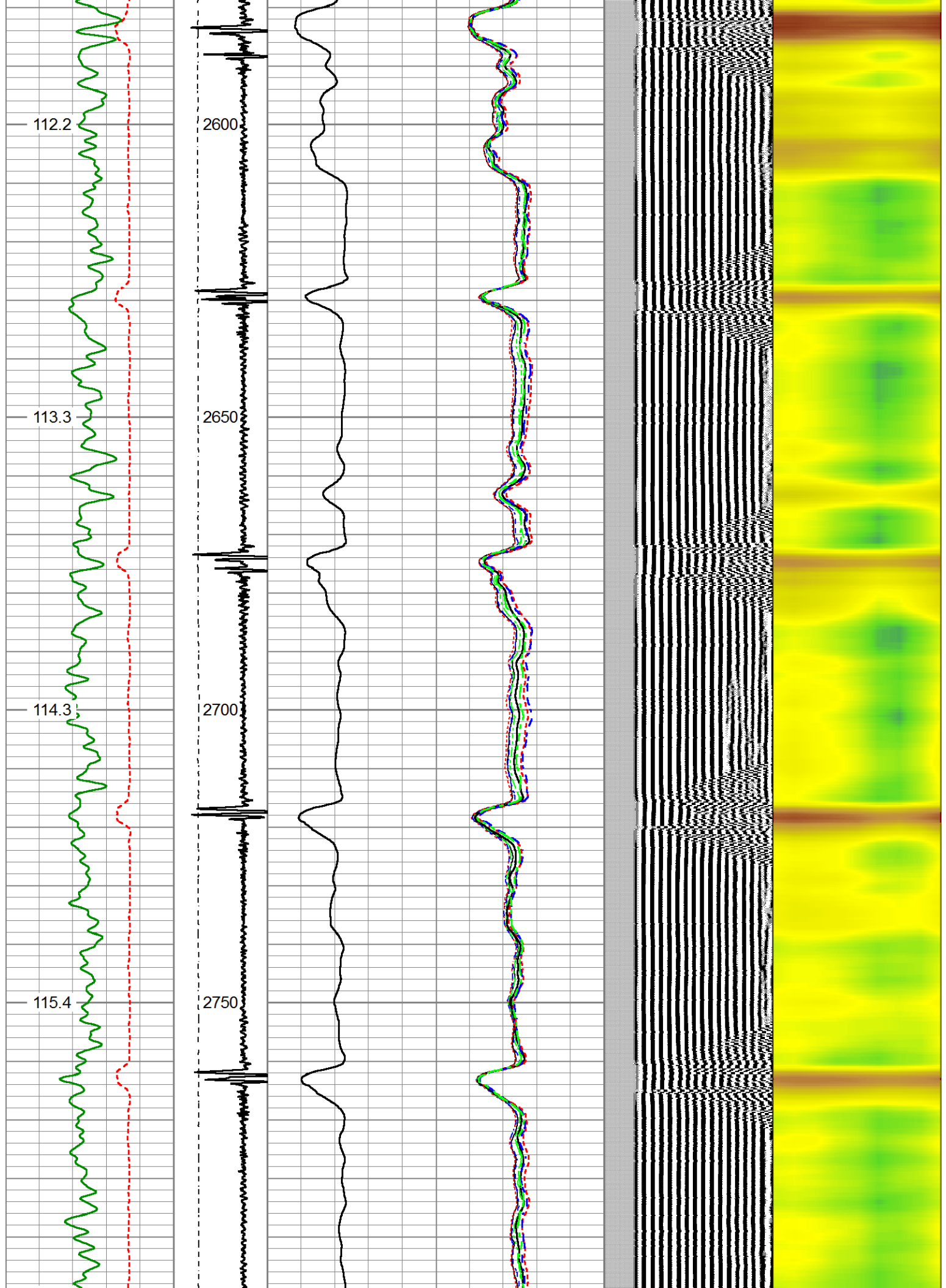


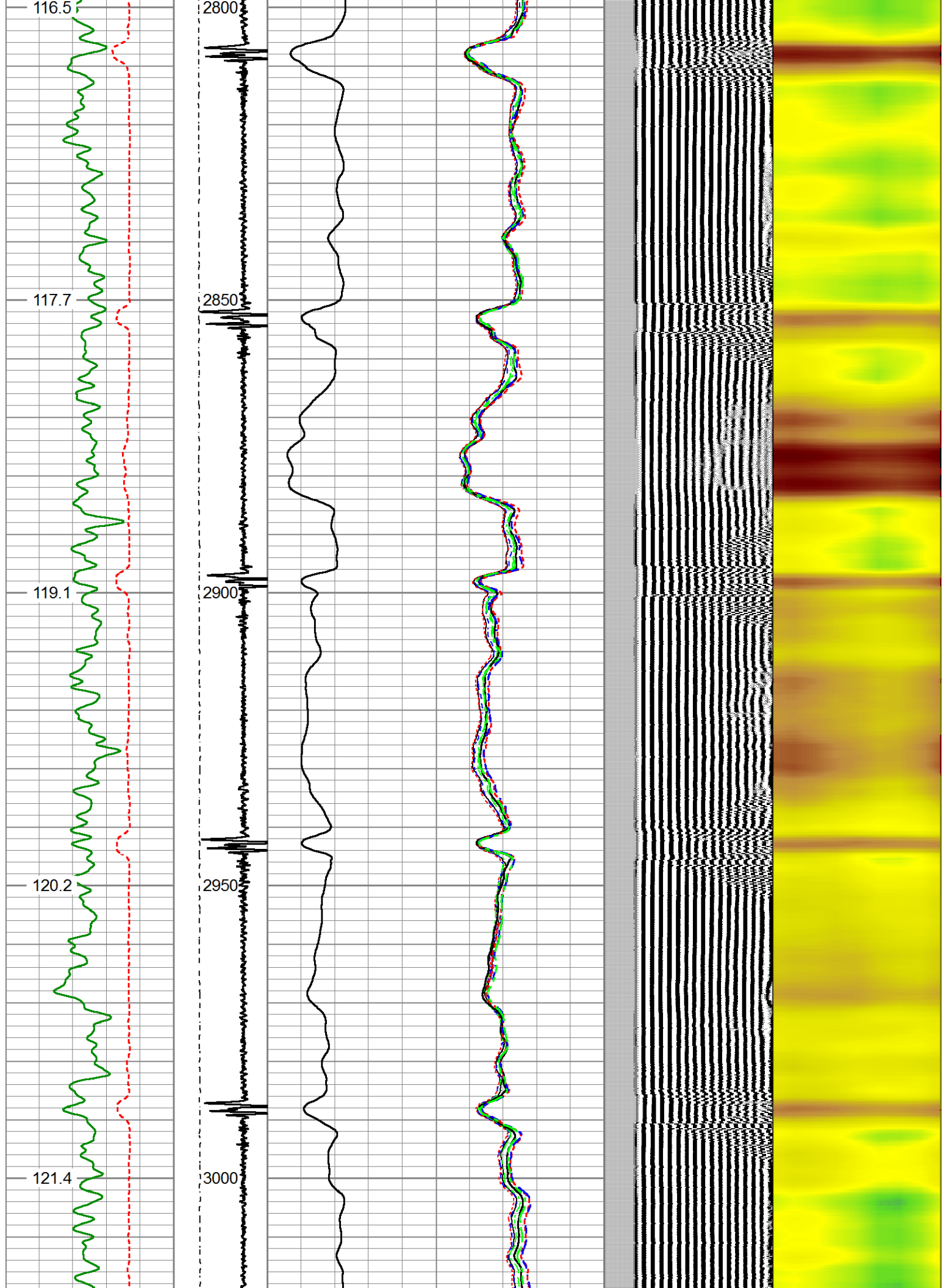


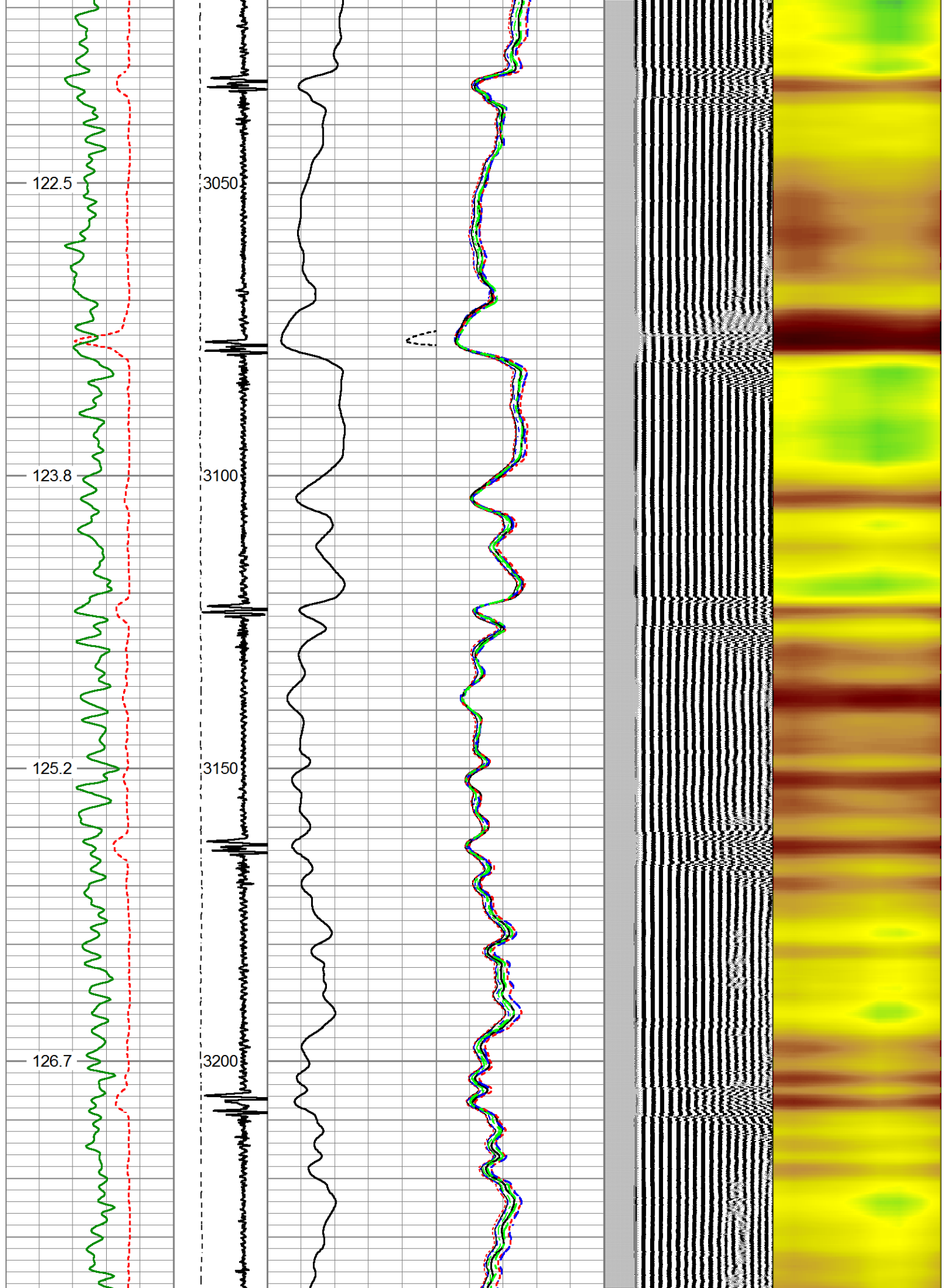


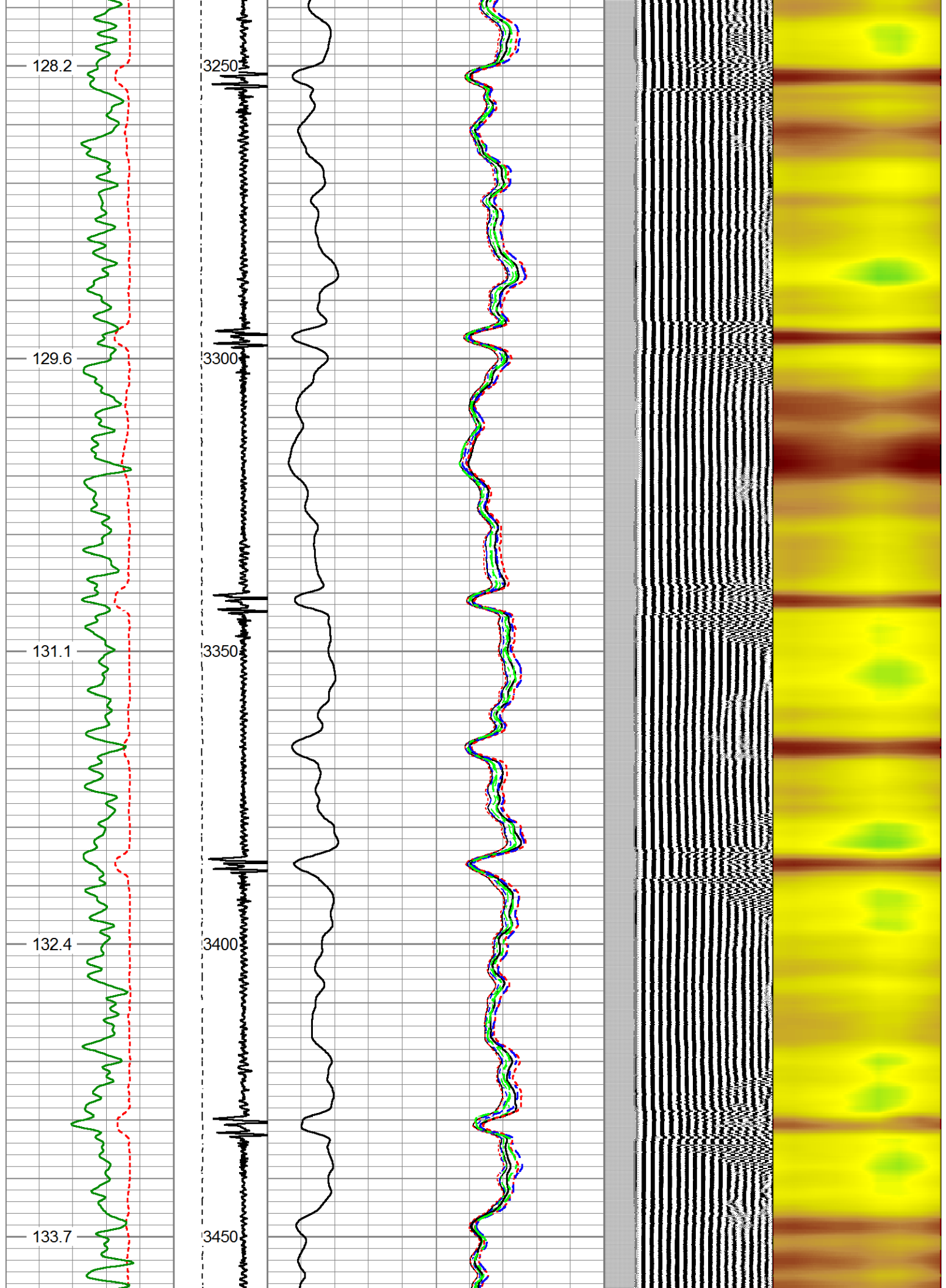


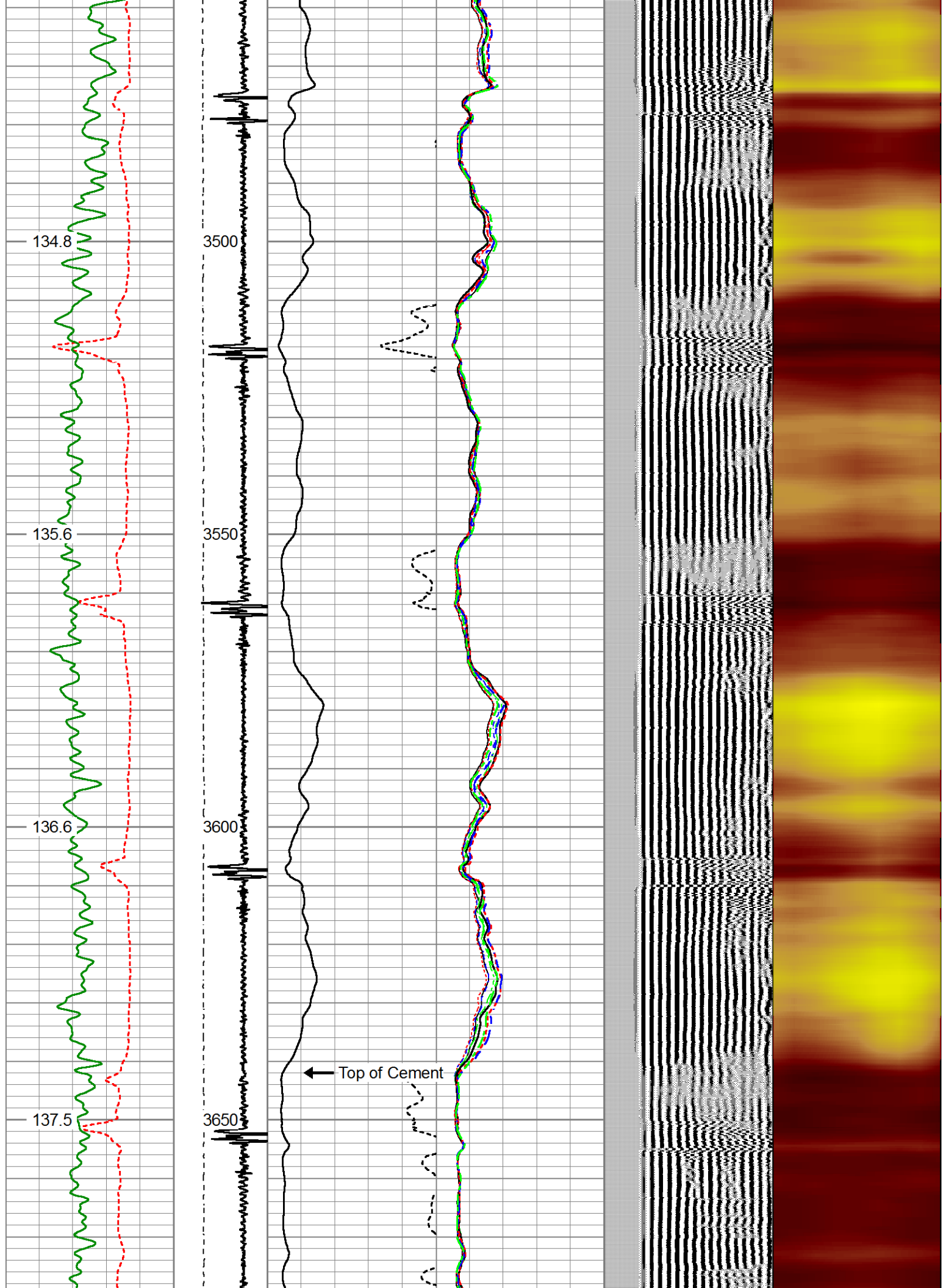


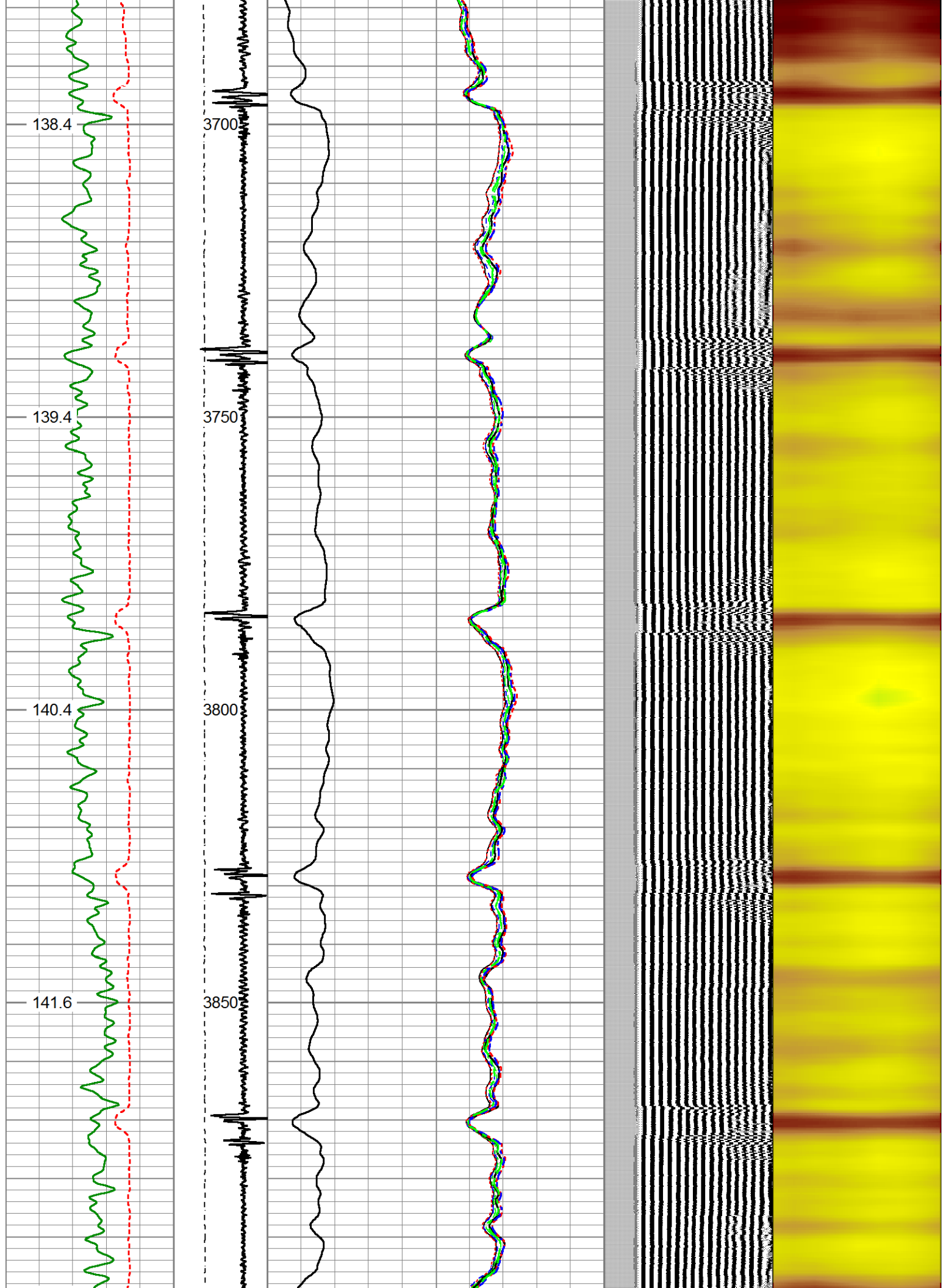


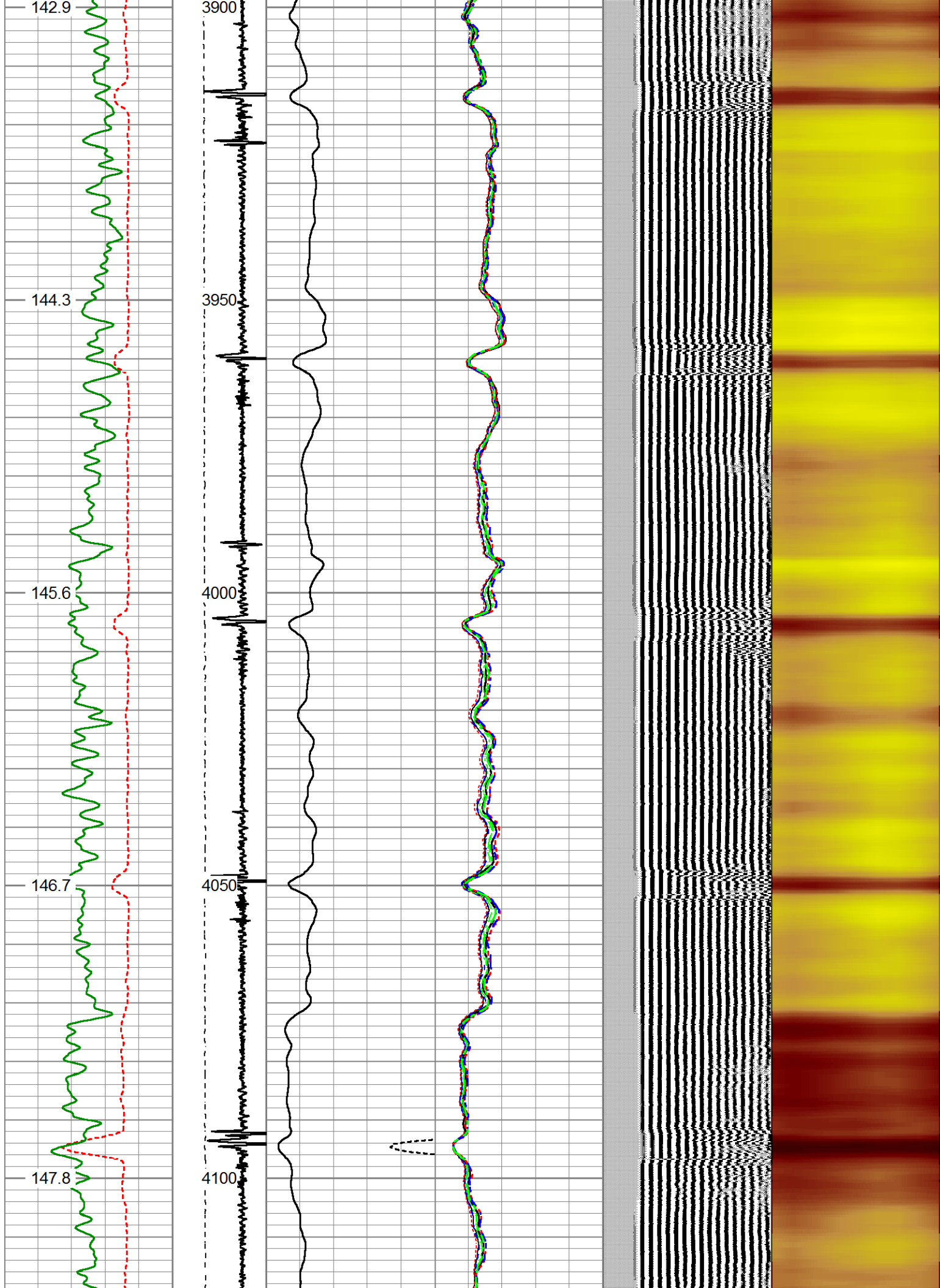


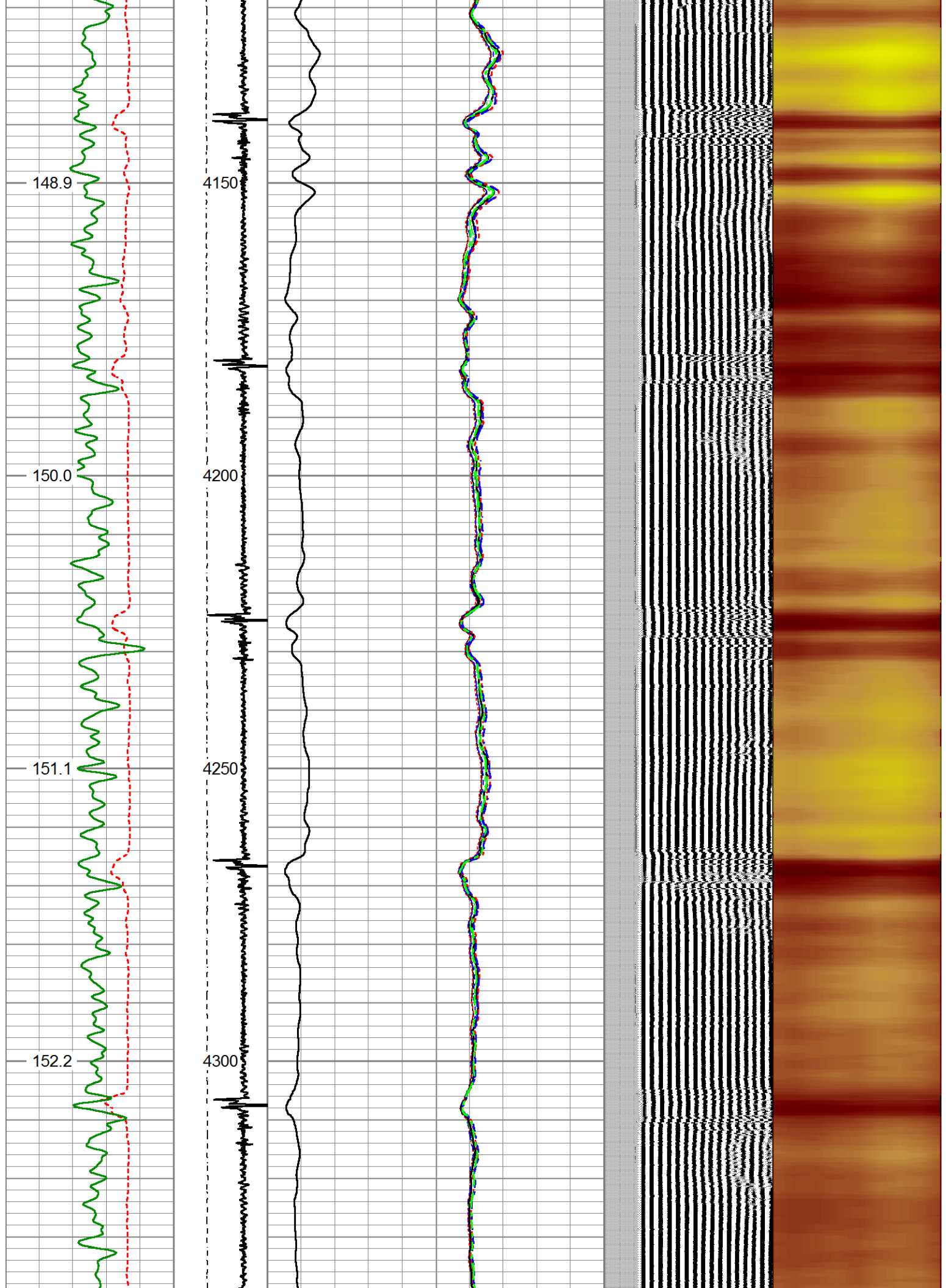


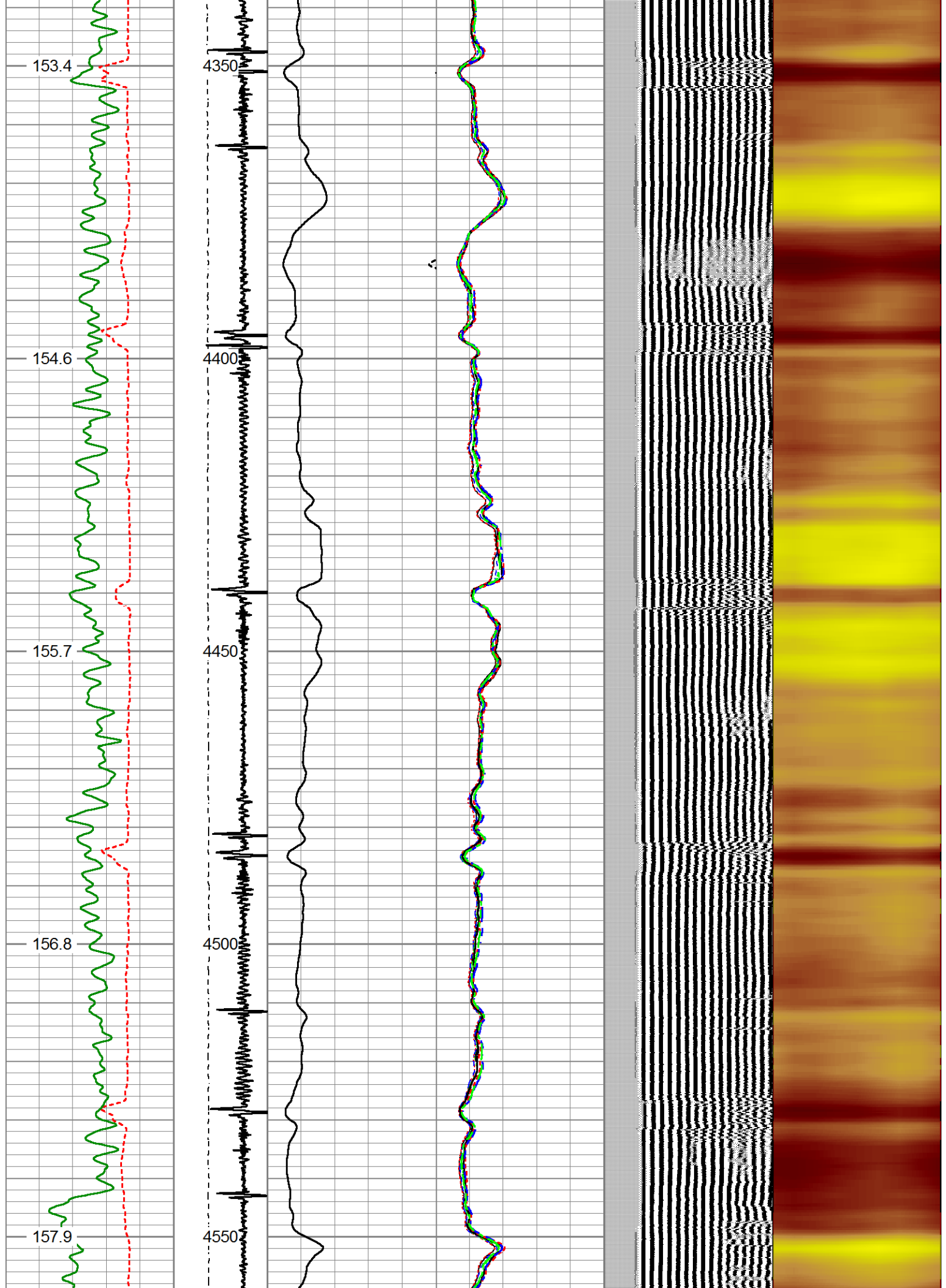


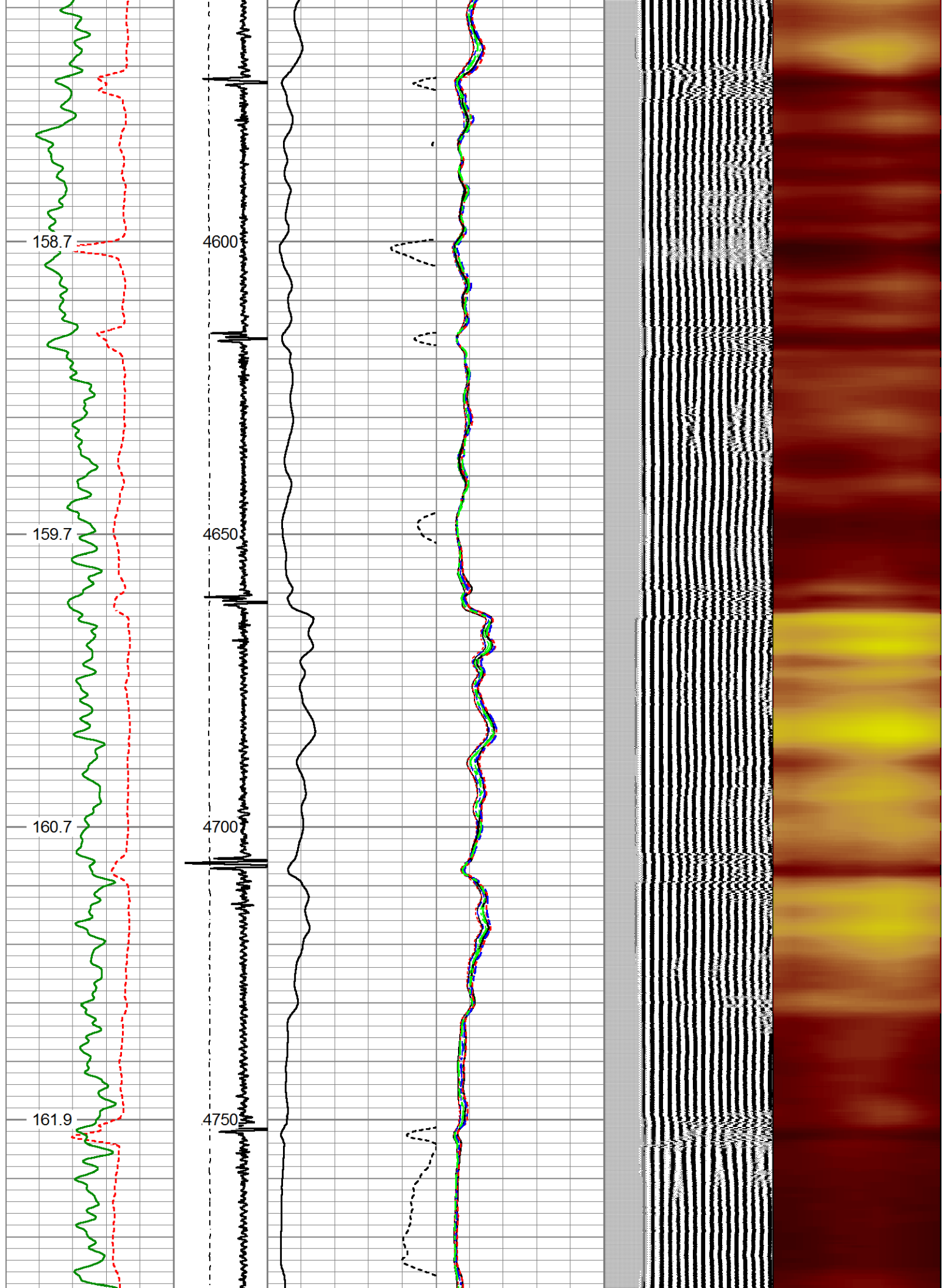


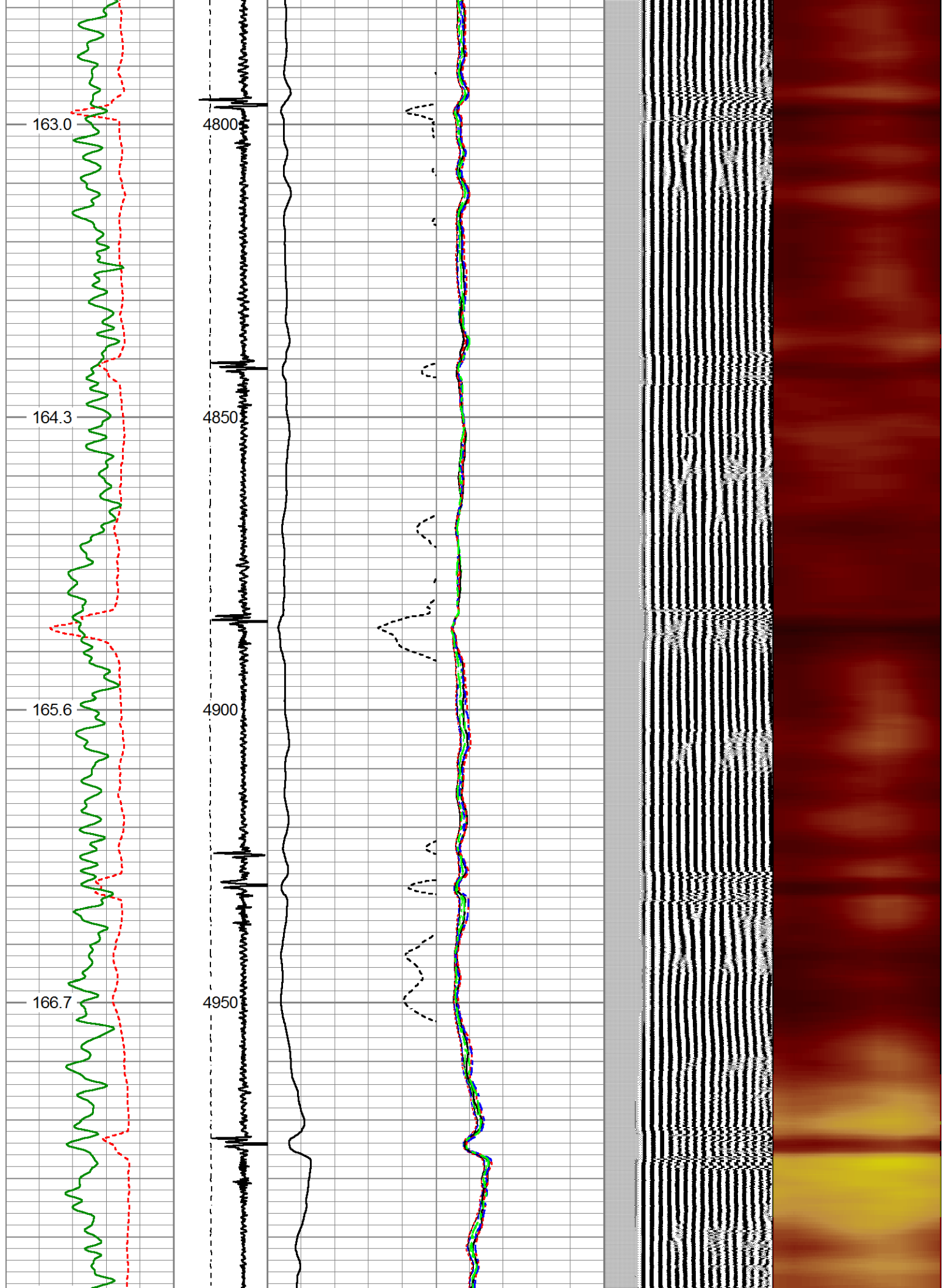


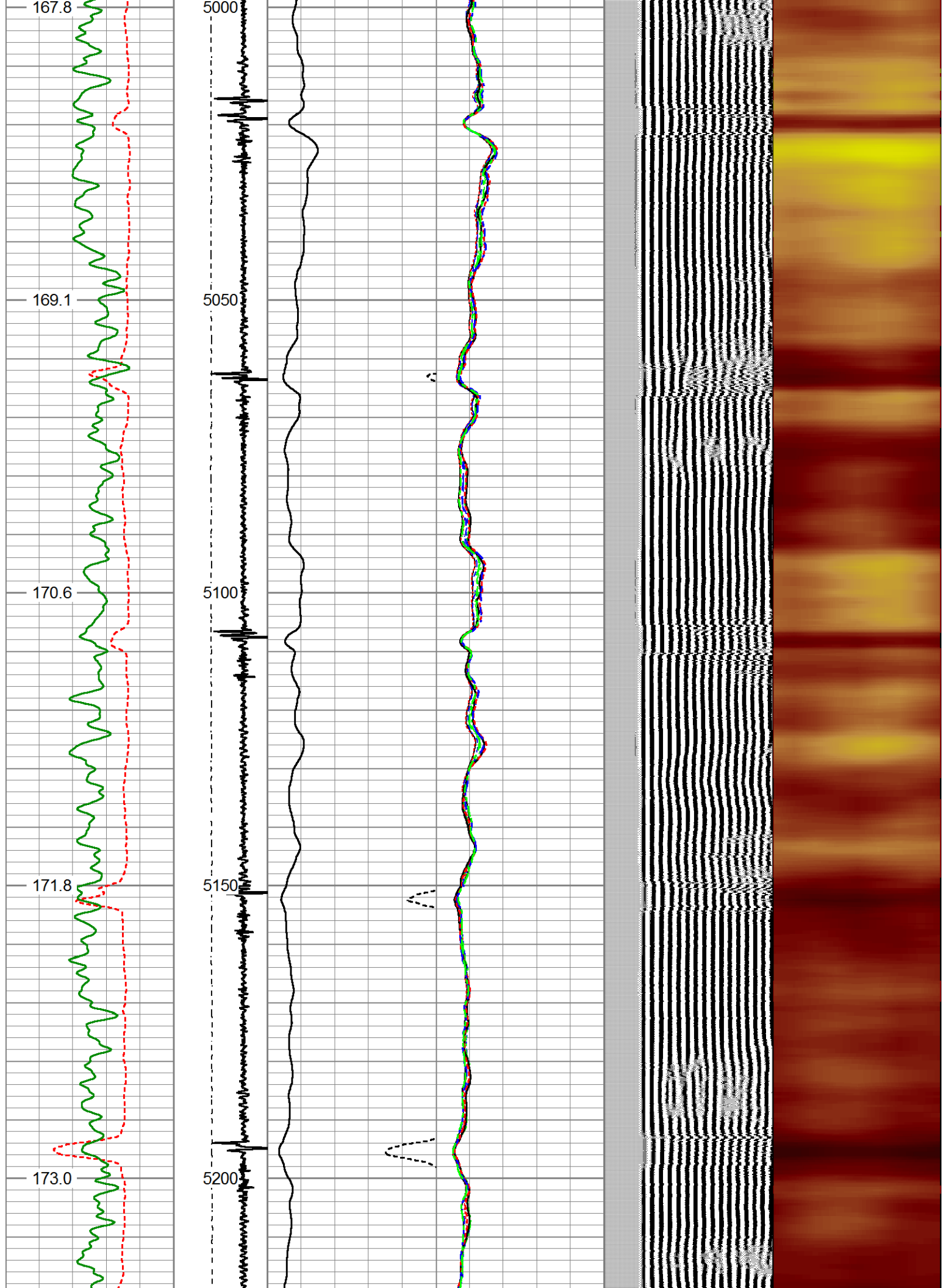


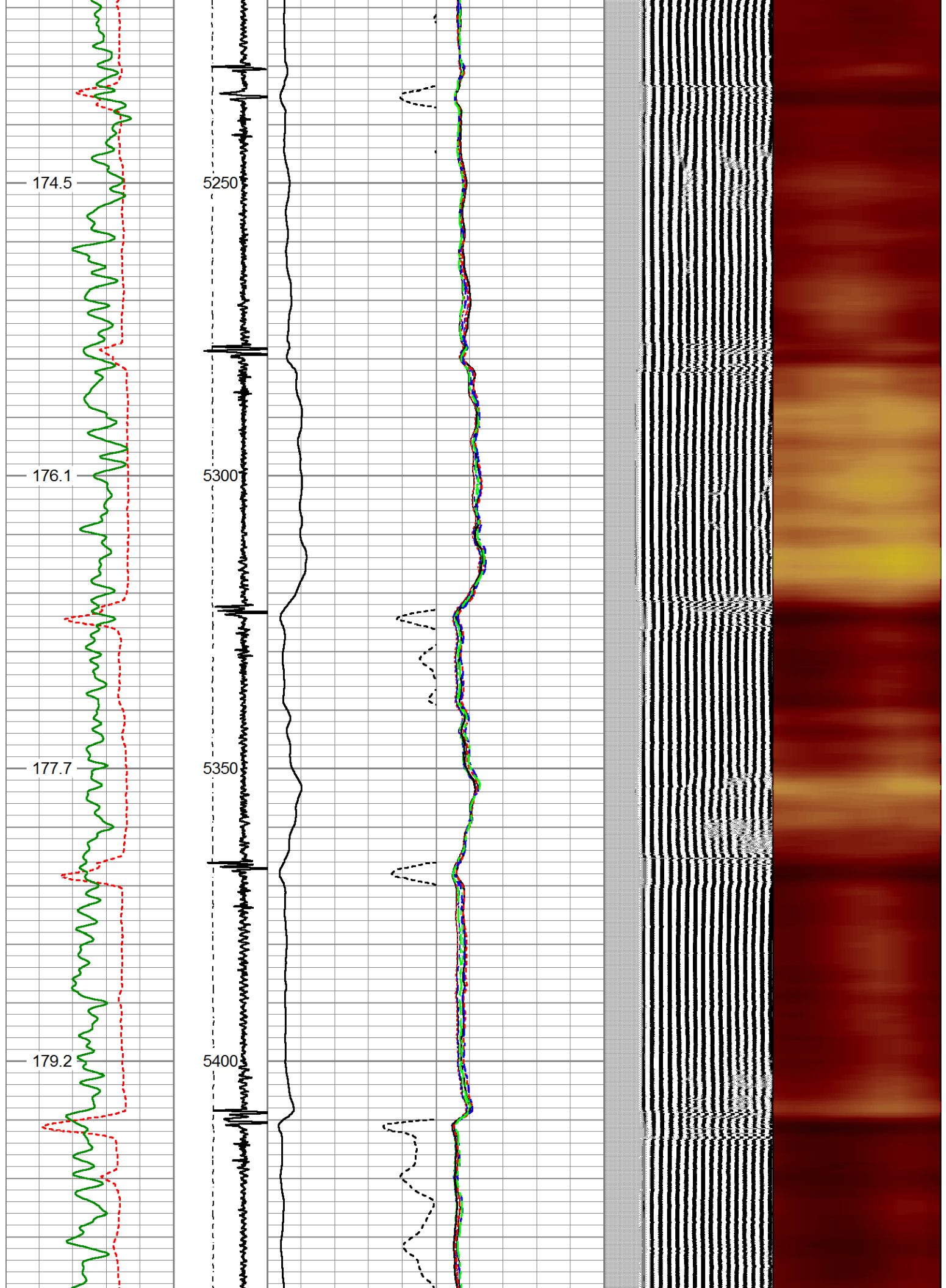


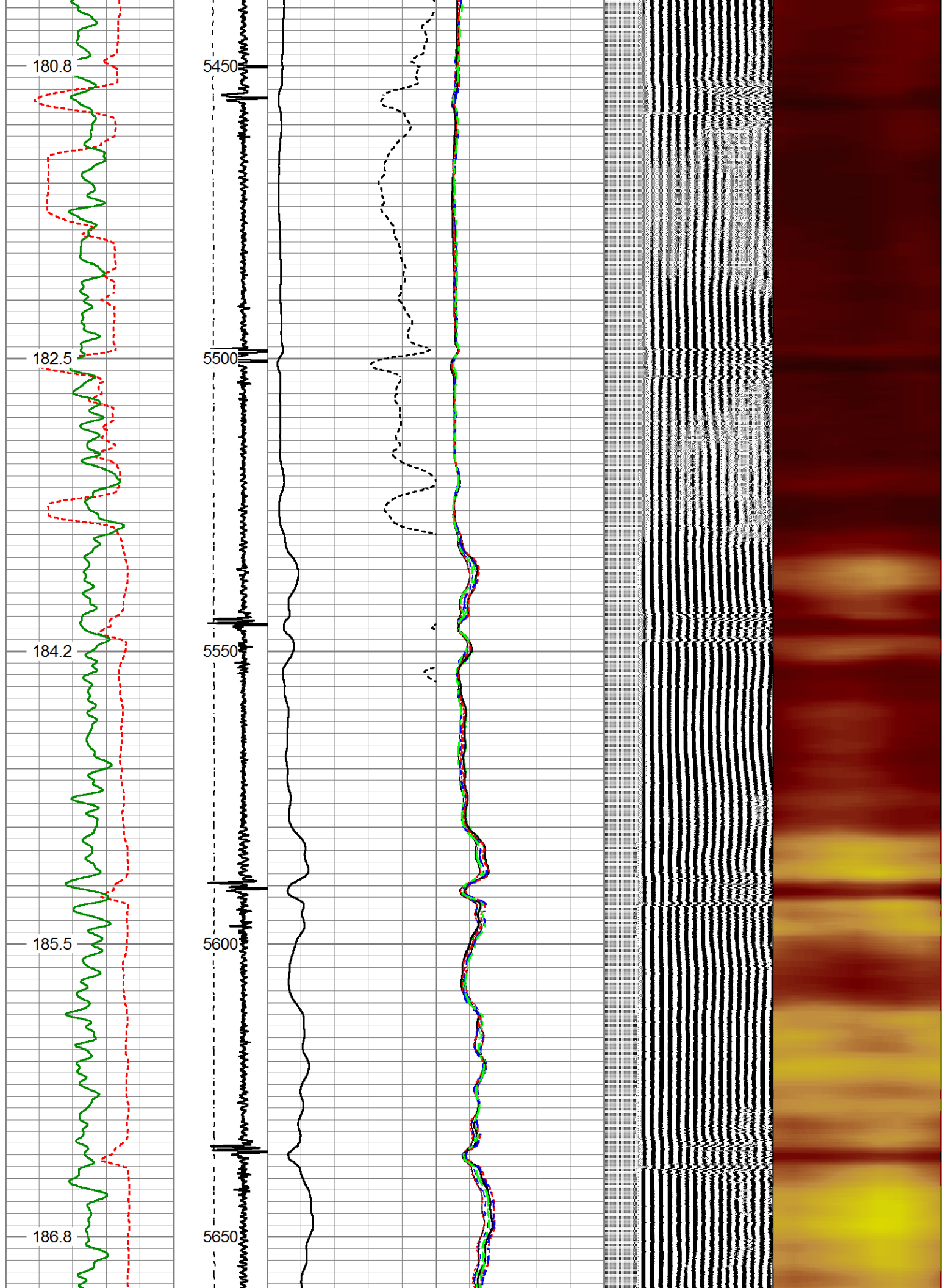


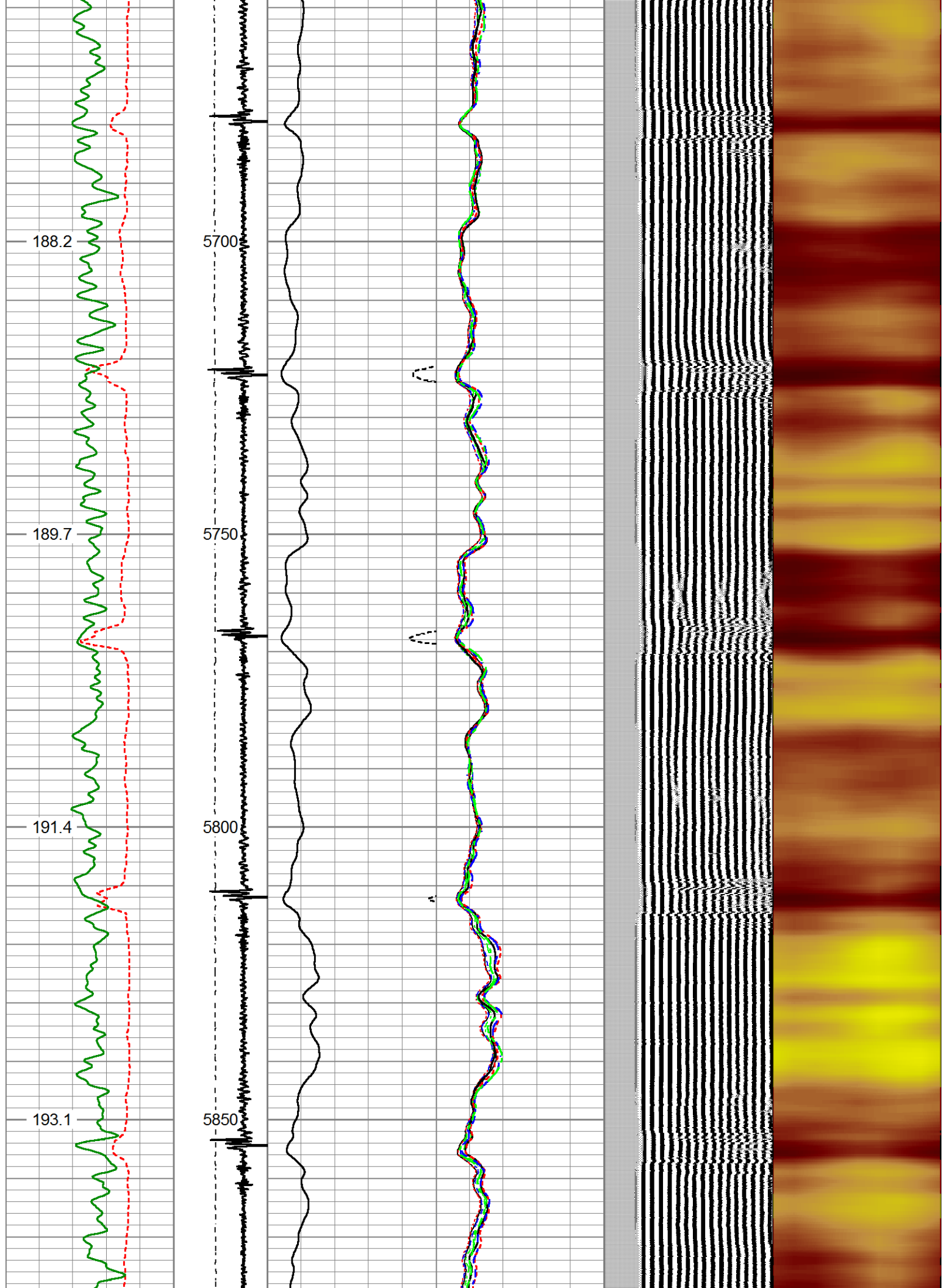


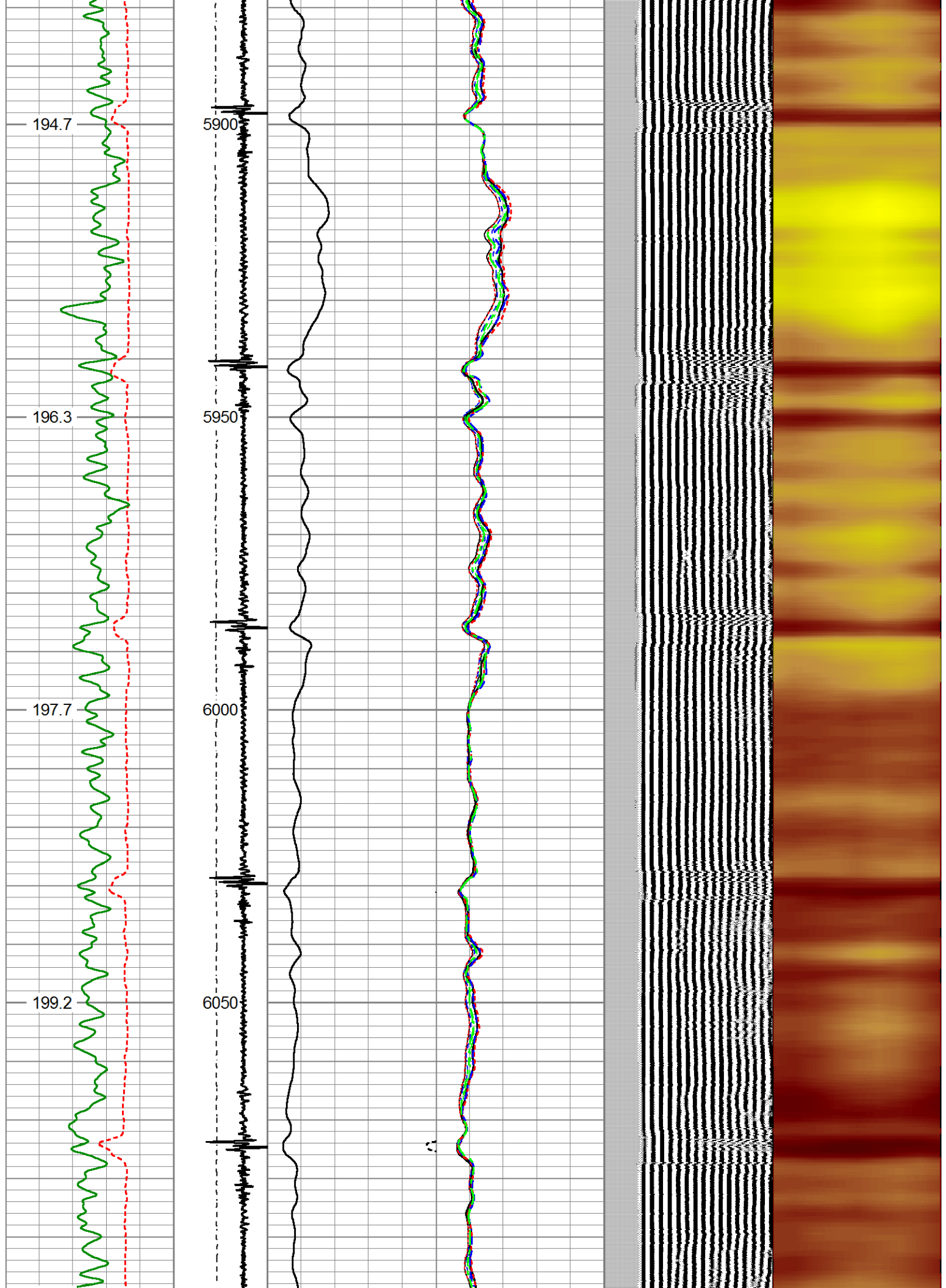


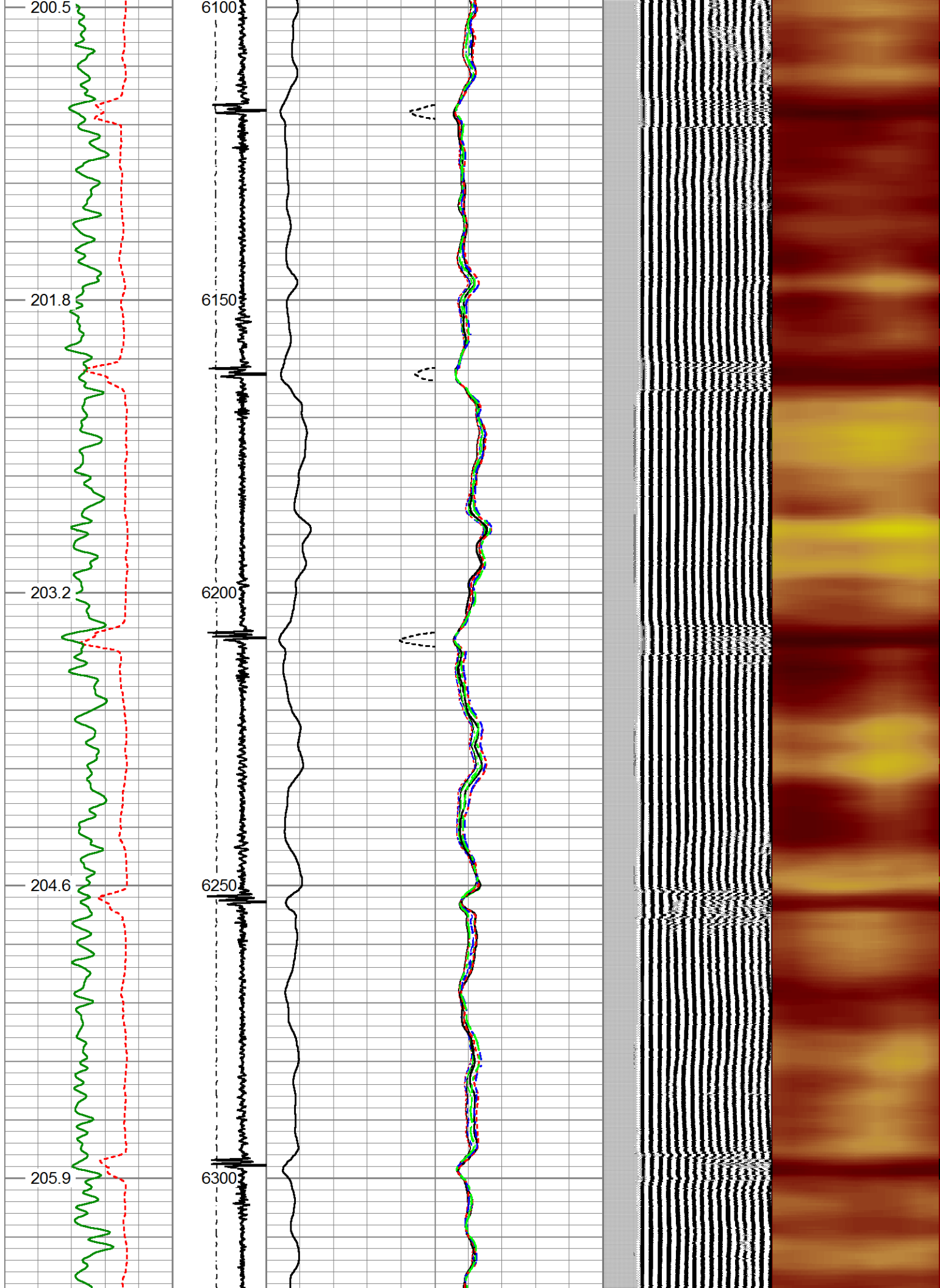


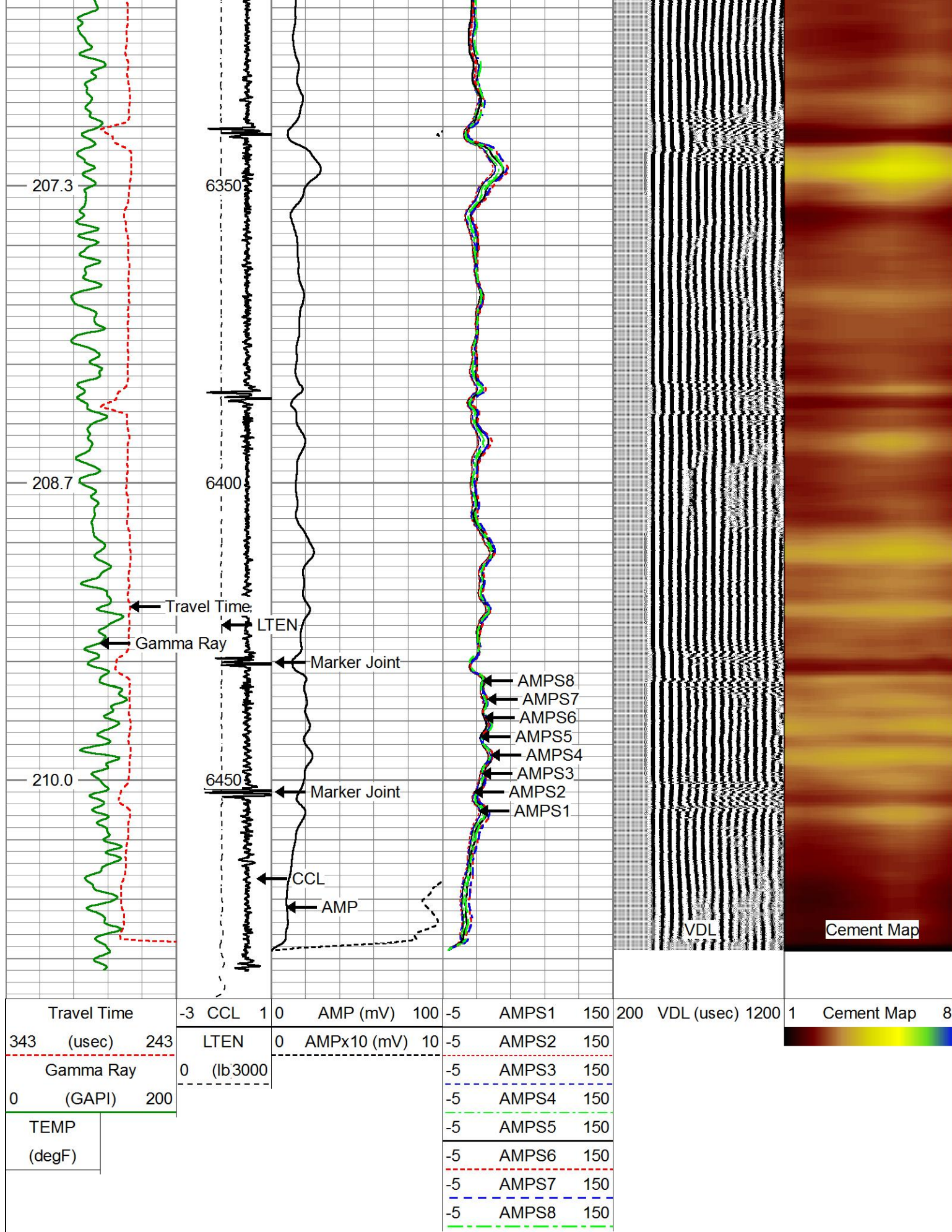








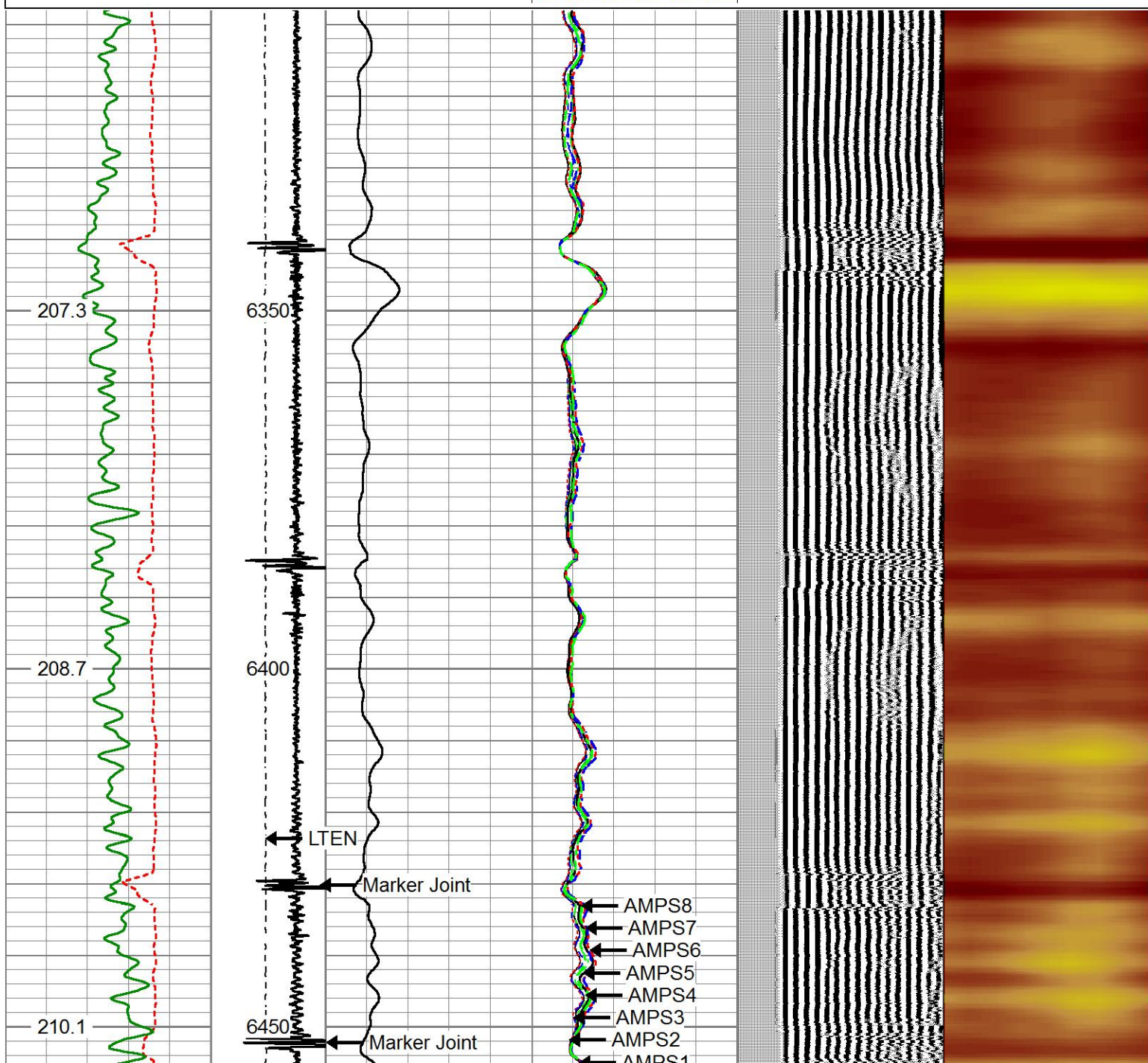


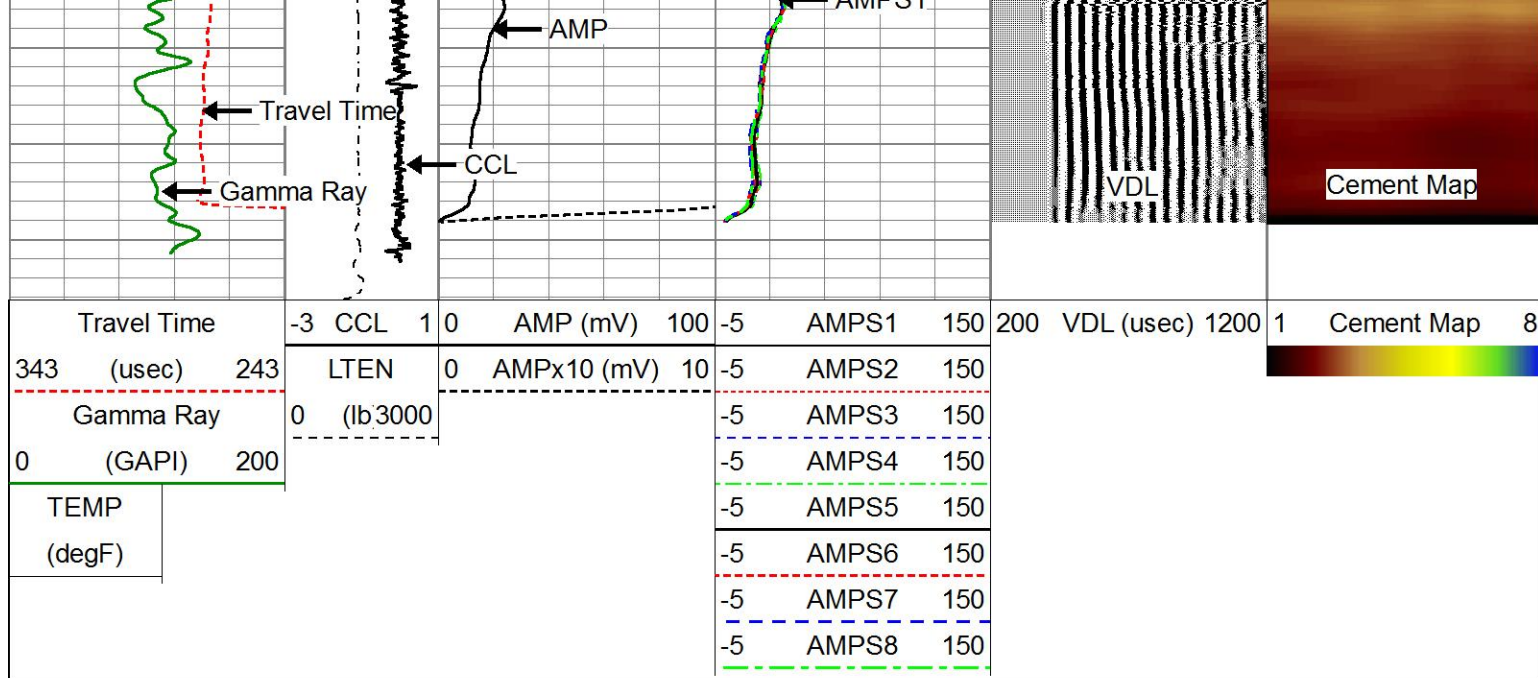


REPEAT PASS. 0 PSI

Database File damore 18-3hz.db
Dataset Pathname LOG1/pass3
Presentation Format rbt-gct8acc
Dataset Creation Sat May 16 07:43:00 2020
Charted by Depth in Feet scaled 1:240

Travel Time	-3 CCL	1 0	AMP (mV)	100	-5	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
343 (usec)	243	LTEN	0	AMPx10 (mV)	10	-5	AMPS2	150					
Gamma Ray	0	(lb 3000)				-5	AMPS3	150					
0 (GAPI)	200					-5	AMPS4	150					
TEMP						-5	AMPS5	150					
(degF)						-5	AMPS6	150					
						-5	AMPS7	150					
						-5	AMPS8	150					





Calibration Report			
Database File	damore 18-3hz.db		
Dataset Pathname	LOG1/pass4.4		
Dataset Creation	Sat May 16 09:03:37 2020		
Gamma Ray Calibration Report			
Serial Number:	FW1304-53		
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	
Temperature Calibration Report			
Serial Number:	FW1304-53		
Tool Model:	Probe275		
Performed:	Sun Jan 05 18:47:35 2020		
	Reference	Reading	
Low Reference:	100.00 degF	6258.73	
High Reference:	350.00 degF	26472.00	
Gain:	0.01		
Offset:	22.59		
Delta Spacing	2		
Segmented Cement Bond Log Calibration Report			
Serial Number:	FW1905-150		
Tool Model:	RBTC3		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	1155.304	ft	
Master Calibration, performed Fri May 15 13:27:11 2020:			

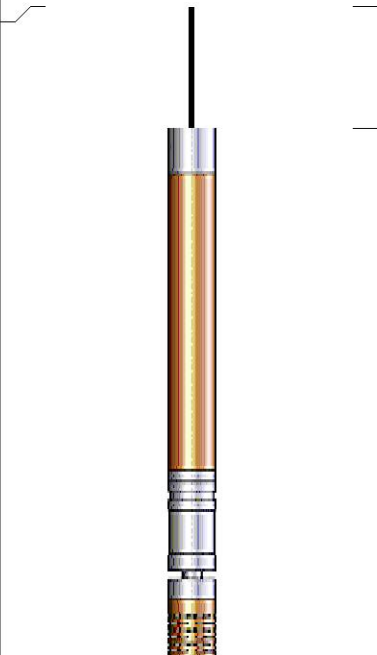
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.521	0.000	71.921	120.000	-0.354
CAL	0.004	0.629				
5'	0.003	0.475	0.000	71.921	152.443	-0.456
SUM						
S1	-0.002	0.557	0.000	100.000	178.759	0.369
S2	0.003	0.542	0.000	100.000	185.499	-0.514
S3	0.003	0.506	0.000	100.000	198.527	-0.545
S4	0.003	0.495	0.000	100.000	202.988	-0.523
S5	0.004	0.503	0.000	100.000	200.416	-0.714
S6	0.003	0.507	0.000	100.000	198.695	-0.648
S7	0.003	0.525	0.000	100.000	191.671	-0.615
S8	0.003	0.534	0.000	100.000	188.305	-0.556

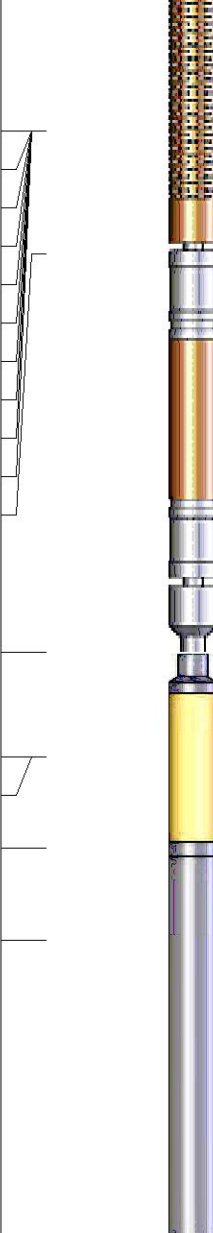
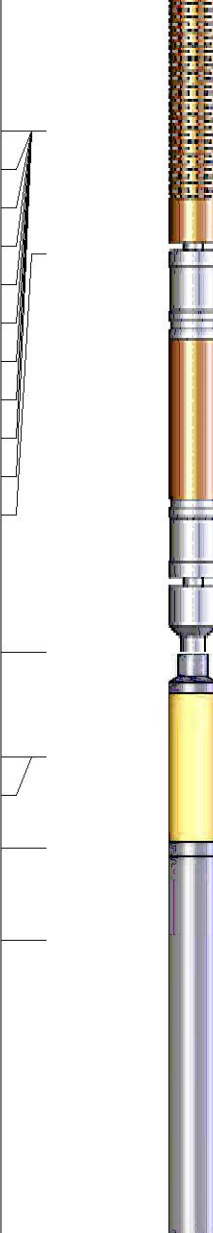
Internal Reference Calibration, performed (Not Performed):


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.629	1.000	0.000

Air Zero Calibration, performed Mon Feb 17 07:02:20 2020:

	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)
ErrCt	15.39		Cable_Head-Standard Standard Cable Head	1.00	1.69	1.00

			RBT-RBTC3 (FW1905-150)	9.62	2.75	90.00
WVFS8	9.02					
WVFS7	9.02					
WVFS6	9.02					
WVFS5	9.02					
WVFS4	9.02					
WVFS3	9.02					
WVFS2	9.02					
WVFS1	9.02					
WVFCAL	9.02					
WVF3FT	9.02					
WVF5FT	8.02					
WVFSYNC	4.77					
DCCL	3.92					
CCL	3.92					
TEMP	3.17					
GR	2.42		GCT-Probe275 (FW1304-53) Probe 2 3/4" Gamma Ray CCL w/Temperature	4.77	2.75	40.00
Dataset: damore 18-3hz.db: field/well/LOG1/pass4.4 Total length: 15.39 ft Total weight: 131.00 lb O.D.: 2.75 in						

	Company	OCCIDENTAL PETROLEUM CORP.
	Well	DAMORE 18-3HZ
	Field	WATTENBERG
	County	WELD
	State	COLORADO