



**RADIAL CEMENT BOND  
GAMMA RAY  
CCL  
TEMP**

**Company OCCIDENTAL PETROLEUM CORP.  
Well DAMORE 18-4HZ  
Field WATTENBERG  
County WELD State COLORADO**

**Location:** API # : 05-123-50778

SW NW

Other Services  
**NONE**

SEC 18 TWP 5N RGE 67W

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 16 MAY 2020

Run Number	ONE	TWO	
Depth Driller	17613'	17613'	
Depth Logger	6580'	6580'	
Bottom Logged Interval	6580'	6580'	
Top Log Interval	SURFACE	SURFACE	
Open Hole Size	8.50"	8.50"	
Type Fluid	WATER	WATER	
Density / Viscosity	~8.3#	~8.3#	
Max. Recorded Temp.	206 DEG F	207 DEG F	
Estimated Cement Top	3764'	3690'	
Time Well Ready	ROA	ROA	
Time Logger on Bottom	09:30	11:00	
Equipment Number	W-205	W-205	
Location	WINDSOR, CO	WINDSOR, CO	
Recorded By	Z. EMICK	Z. EMICK	
Witnessed By	R. PEVLER	R. PEVLER	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.50"	0'	1896'				
TWO	8.50"	1896'	17613'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	36# J-55	0'	1886'
Prot. String				
Production String	5-1/2"	17# HCP110	0'	17606'
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**

**LOG CORRELATED TO SHORT JOINT AT 6540' - 6562'**

**FIRST LOG RAN WITH 0 PSI ON CASING.**

**SECOND LOG RAN WITH 2800 PSI ON CASING.**

**THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE.**

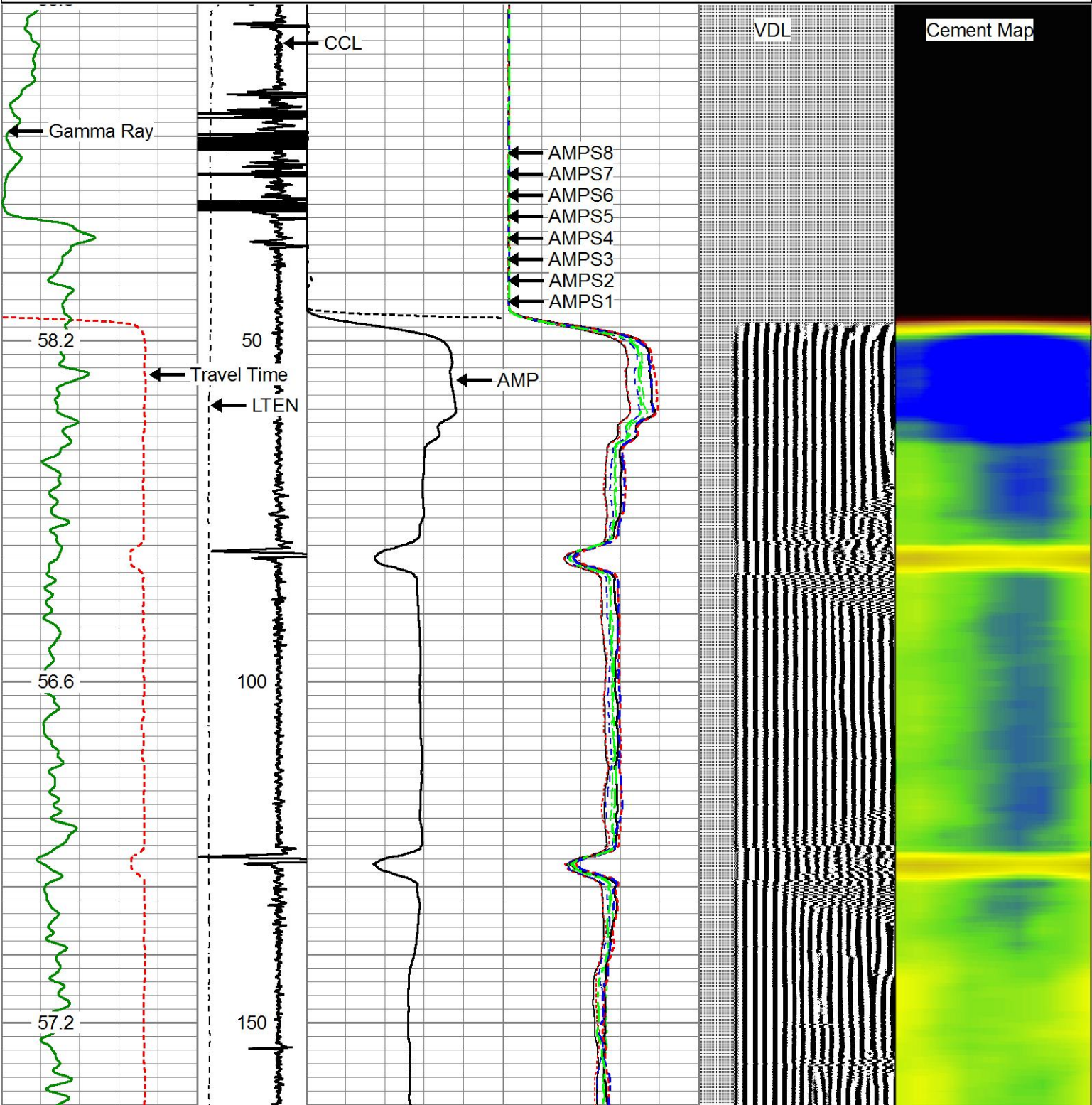


**MAIN PASS, 0 PSI**

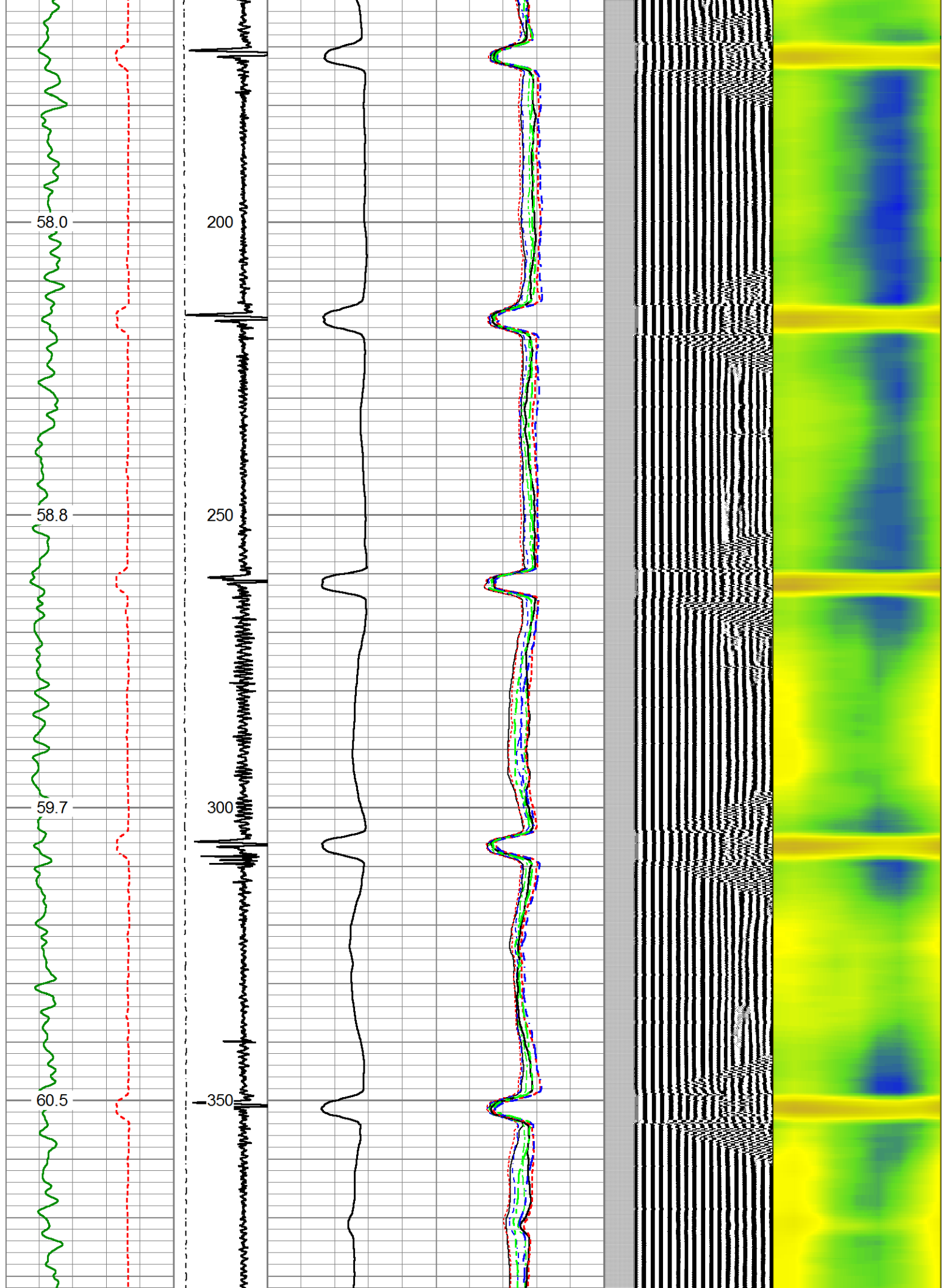
**5" = 100'**

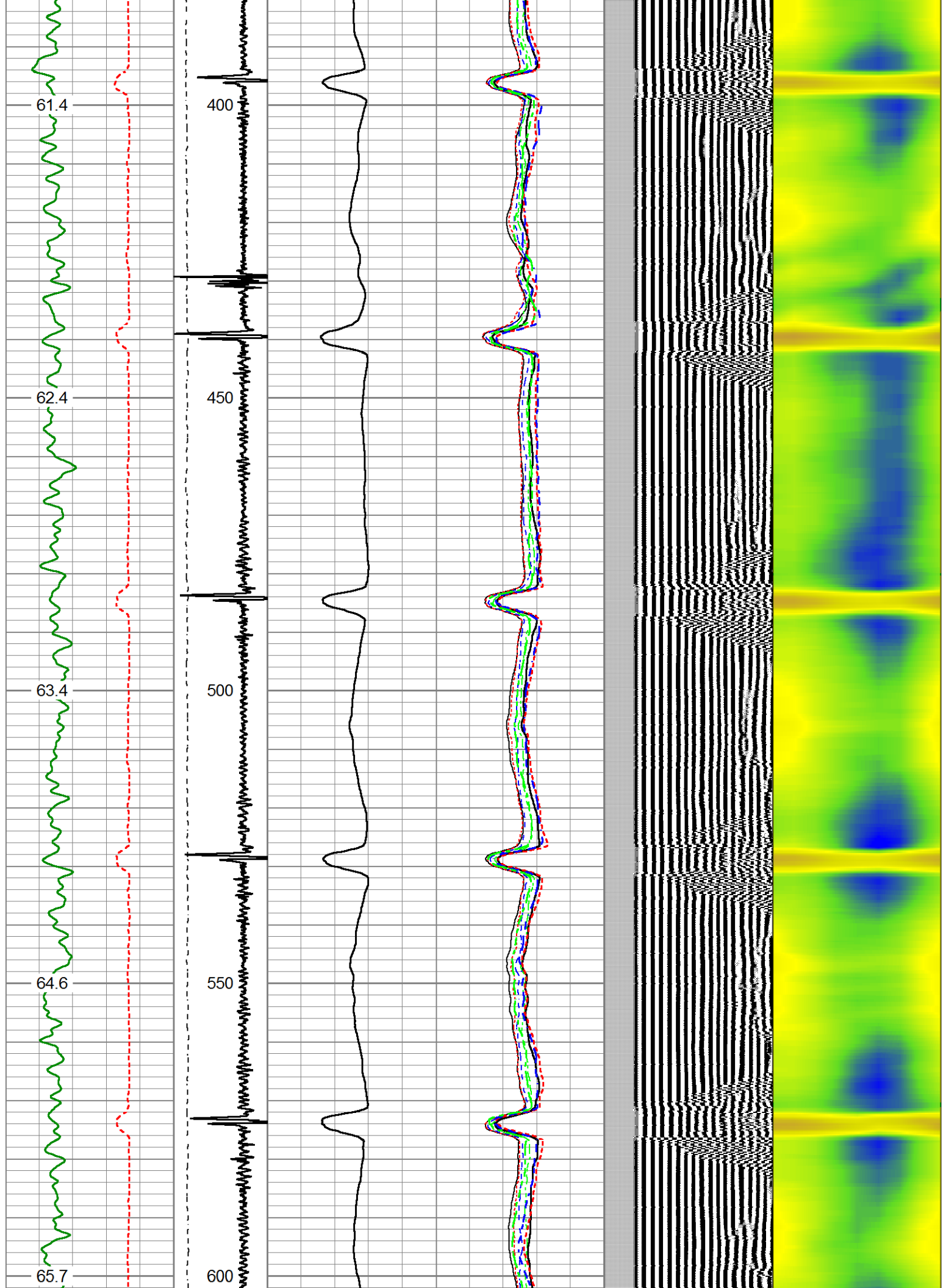
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Dataset Pathname	LOG1/pass4
Presentation Format	rbt-gct8acc
Dataset Creation	Sat May 16 09:31:50 2020
Charted by	Depth in Feet scaled 1:240

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 (lb3000)					-5	AMPS3	150					
0 (GAPI)	200					-5	AMPS4	150					
TEMP						-5	AMPS5	150					
(degF)						-5	AMPS6	150					
						-5	AMPS7	150					
						-5	AMPS8	150					

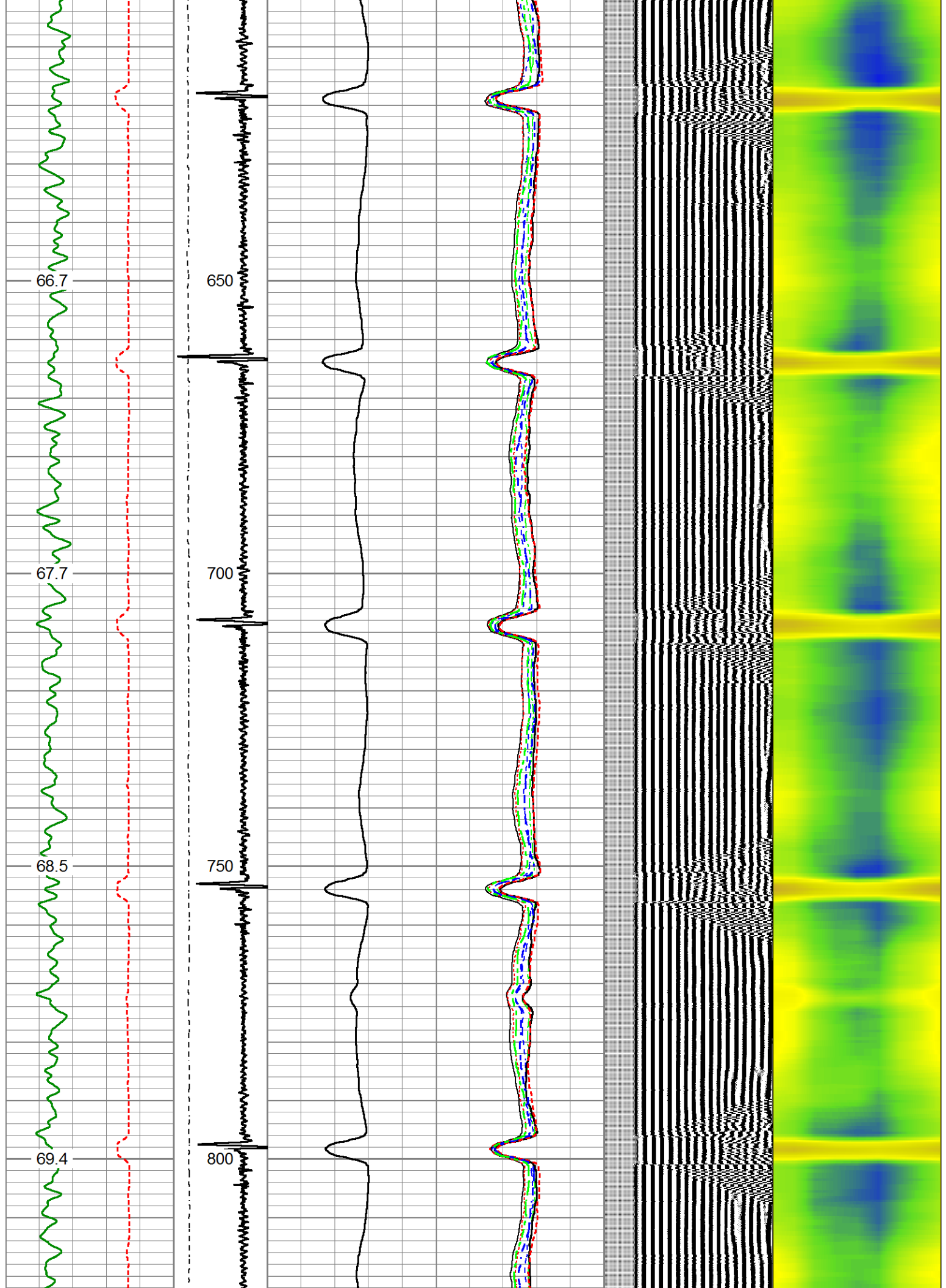


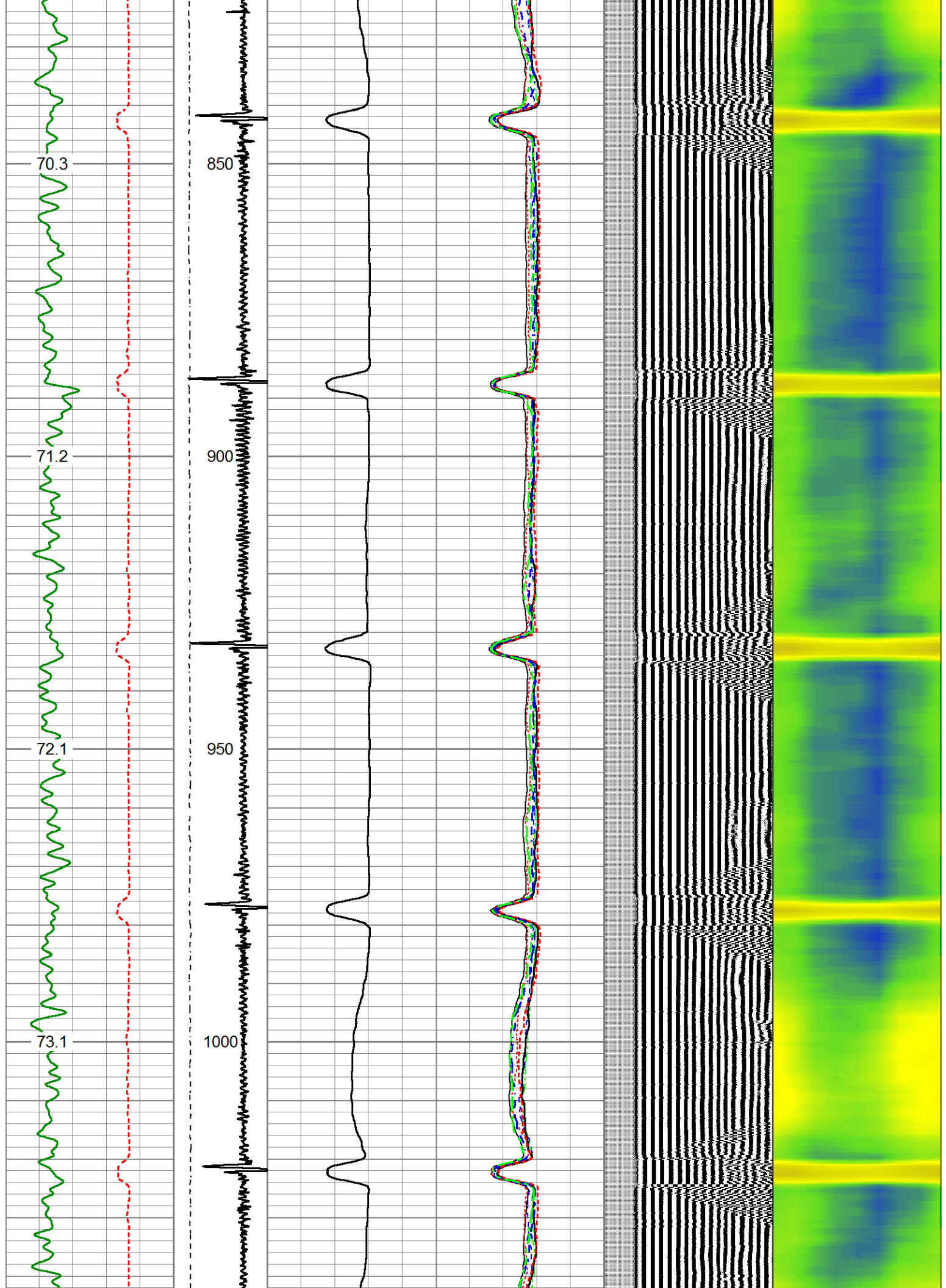




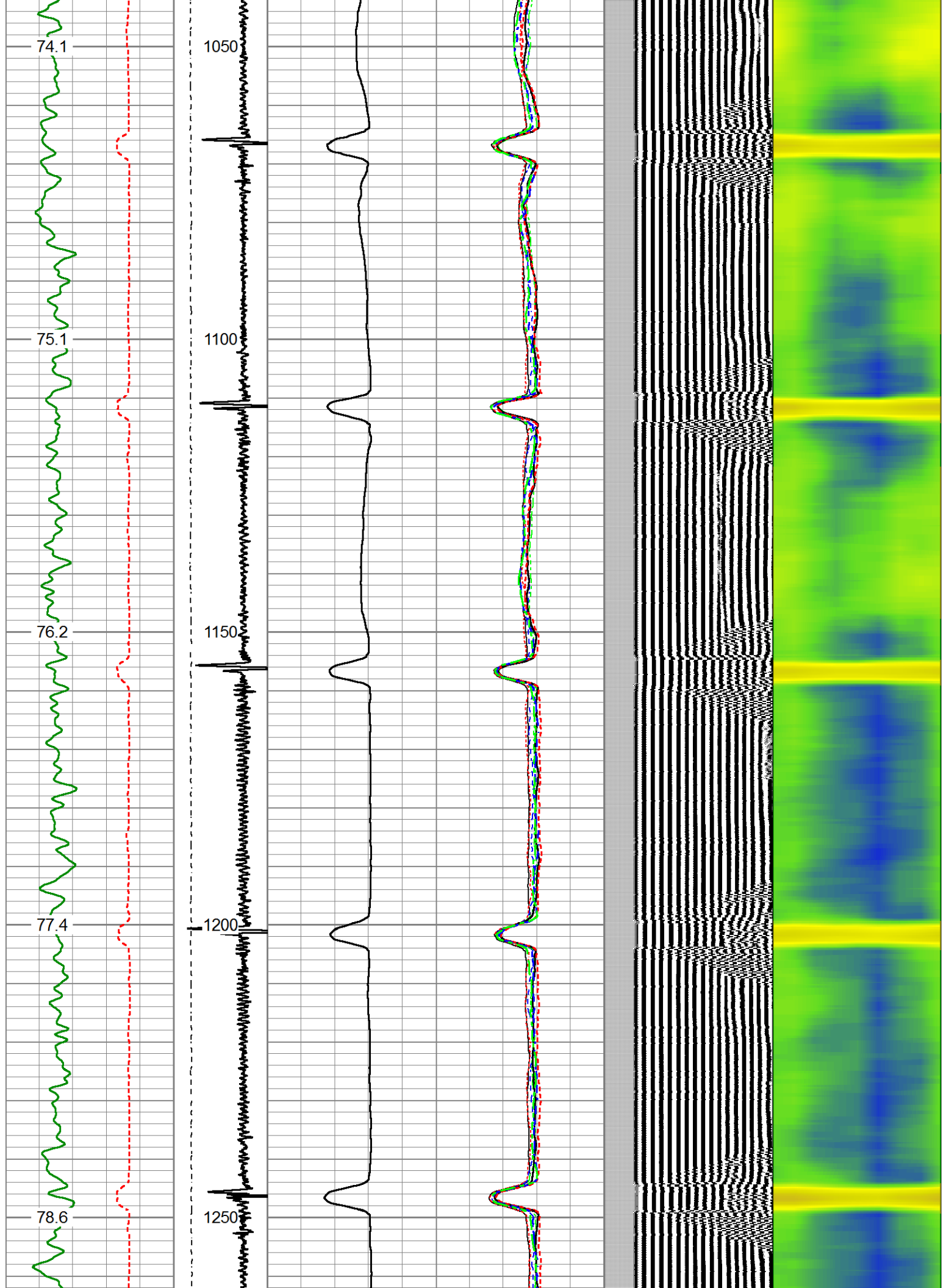


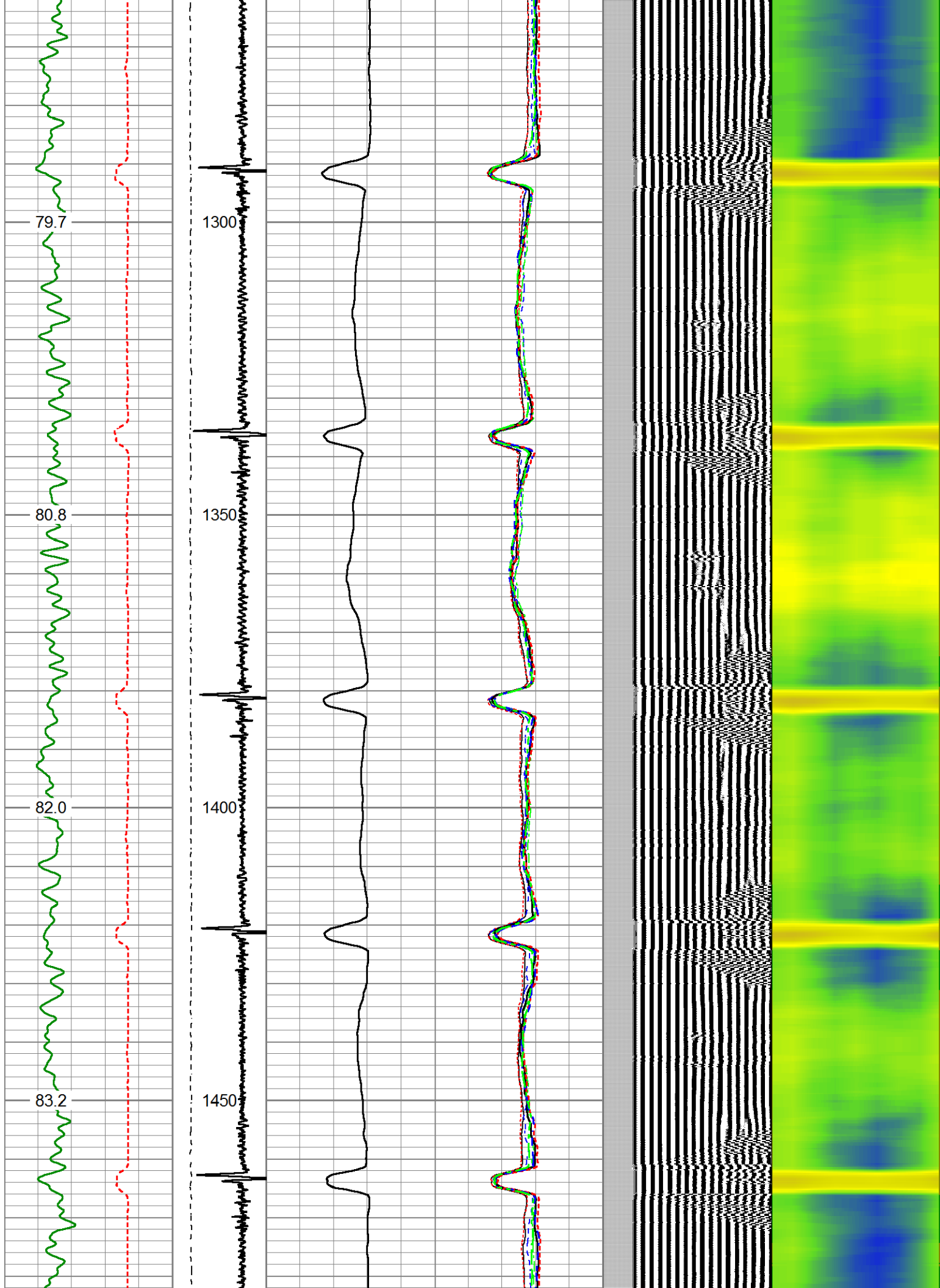




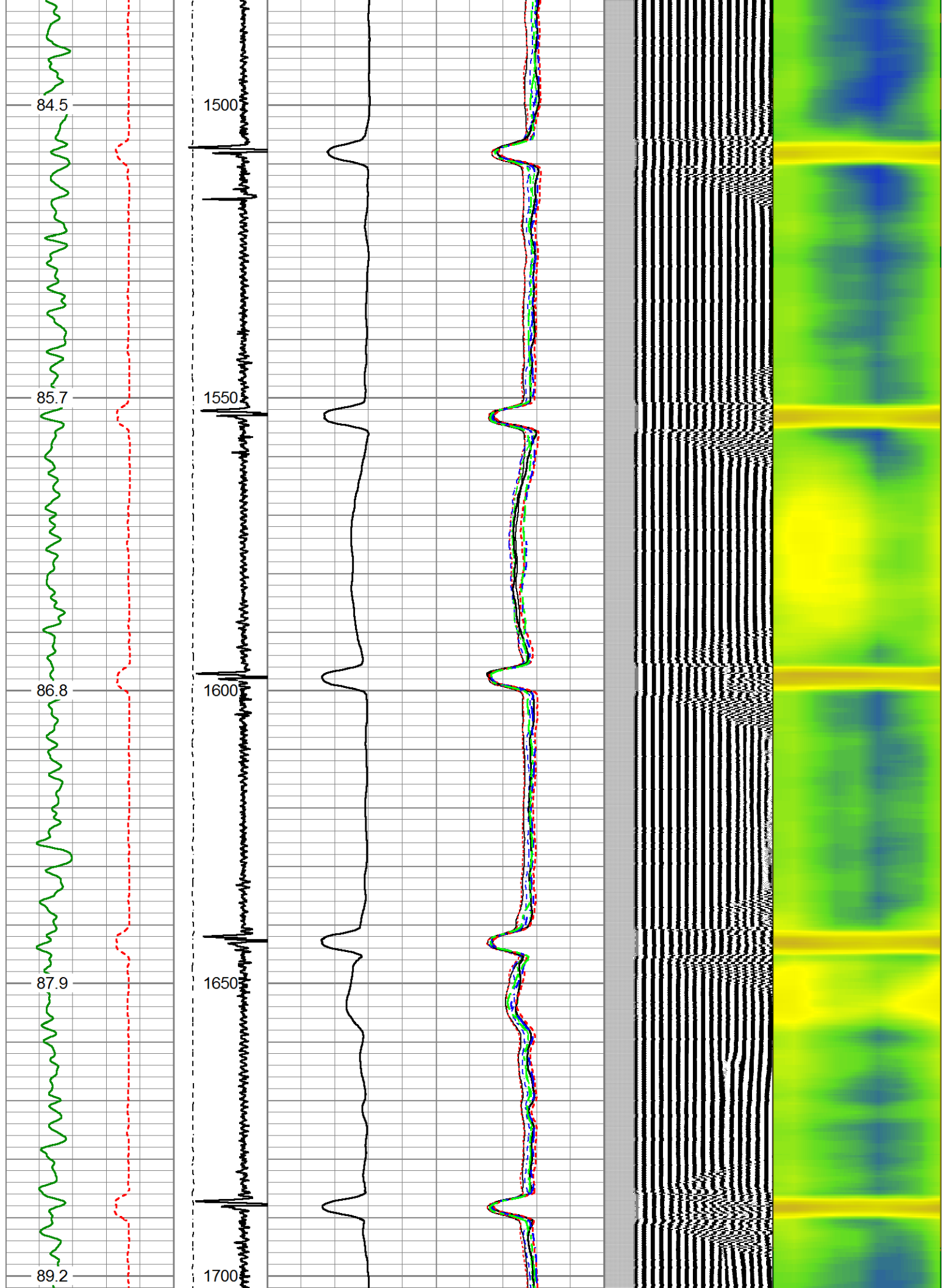


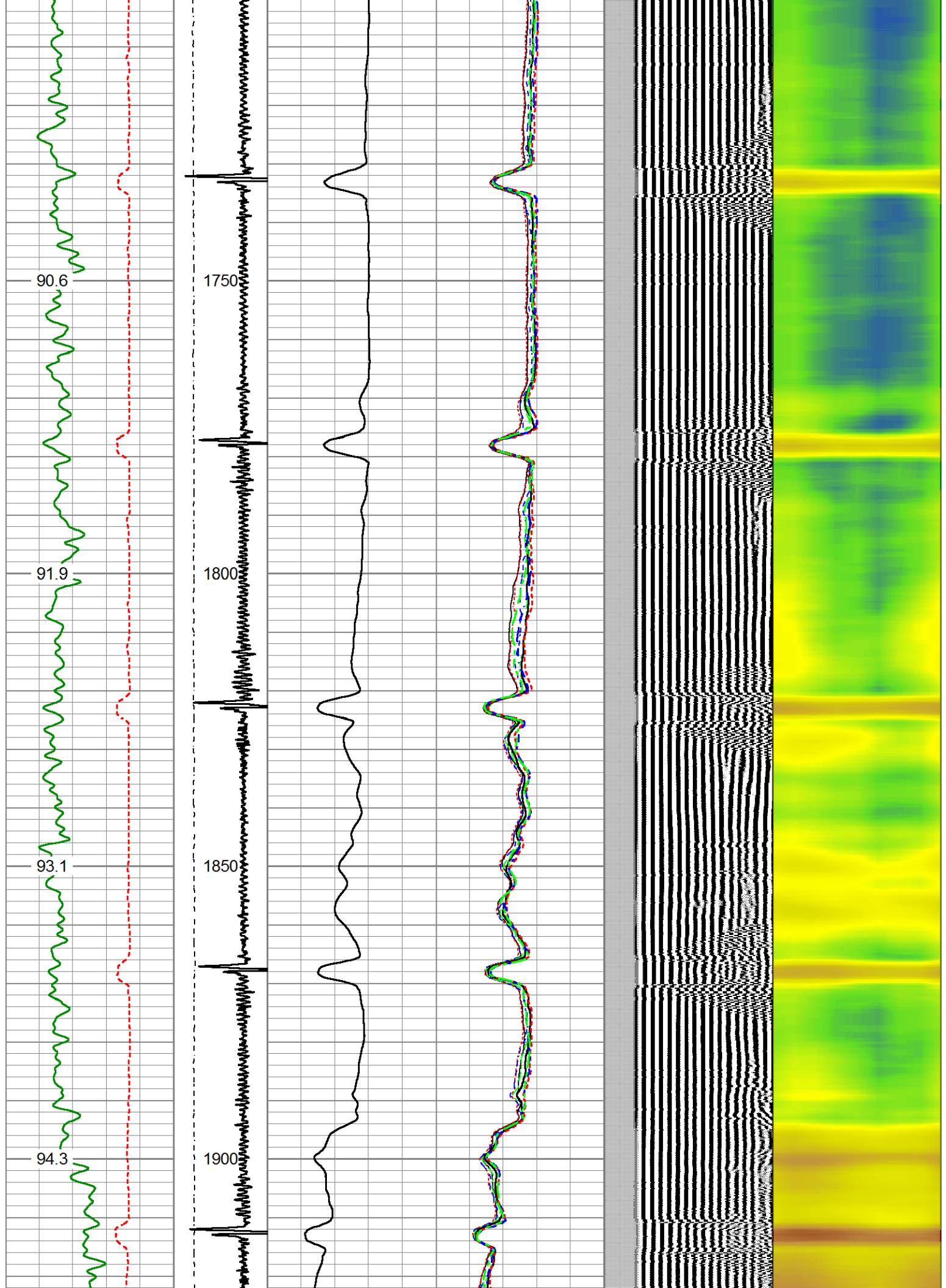




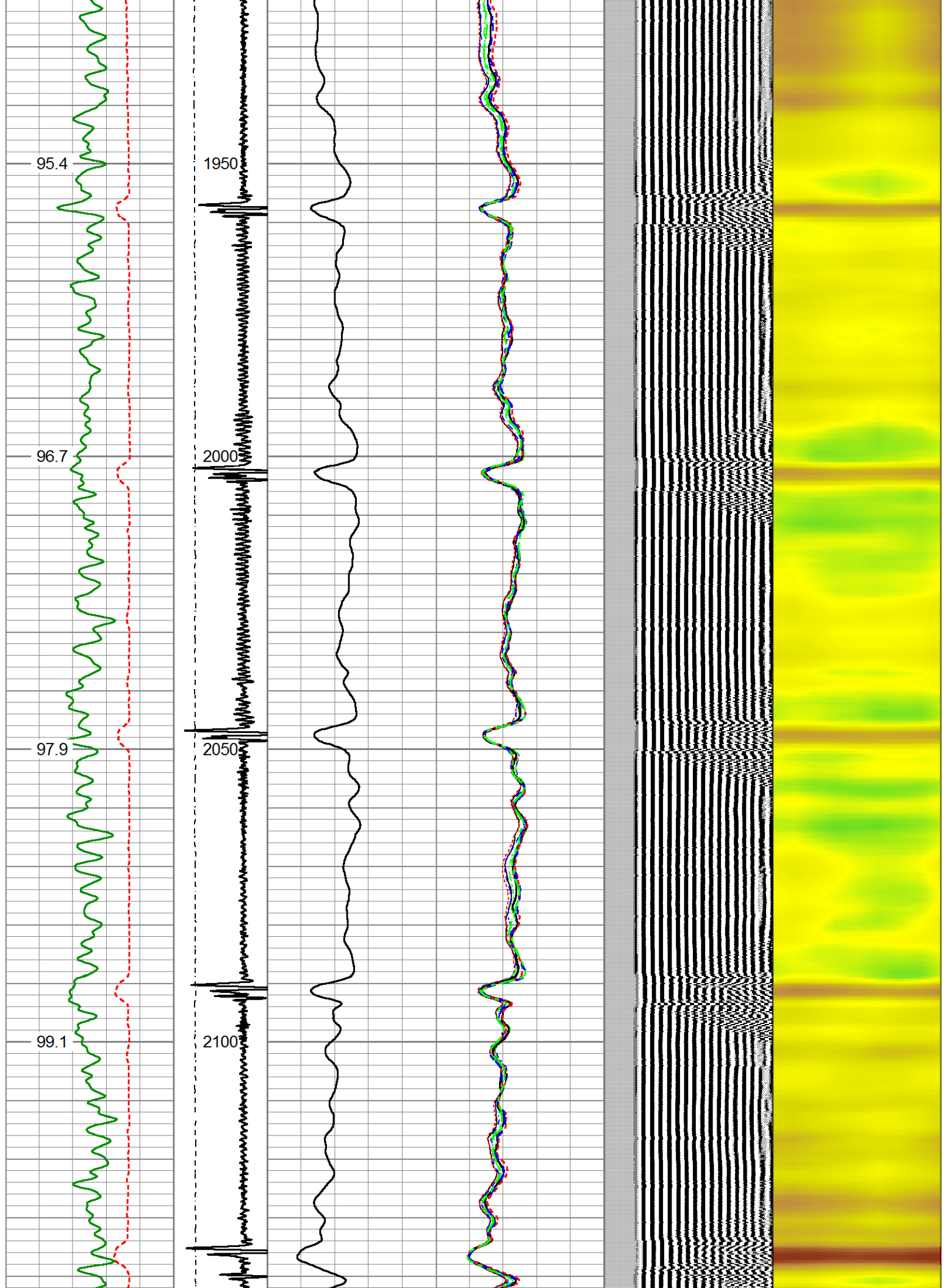


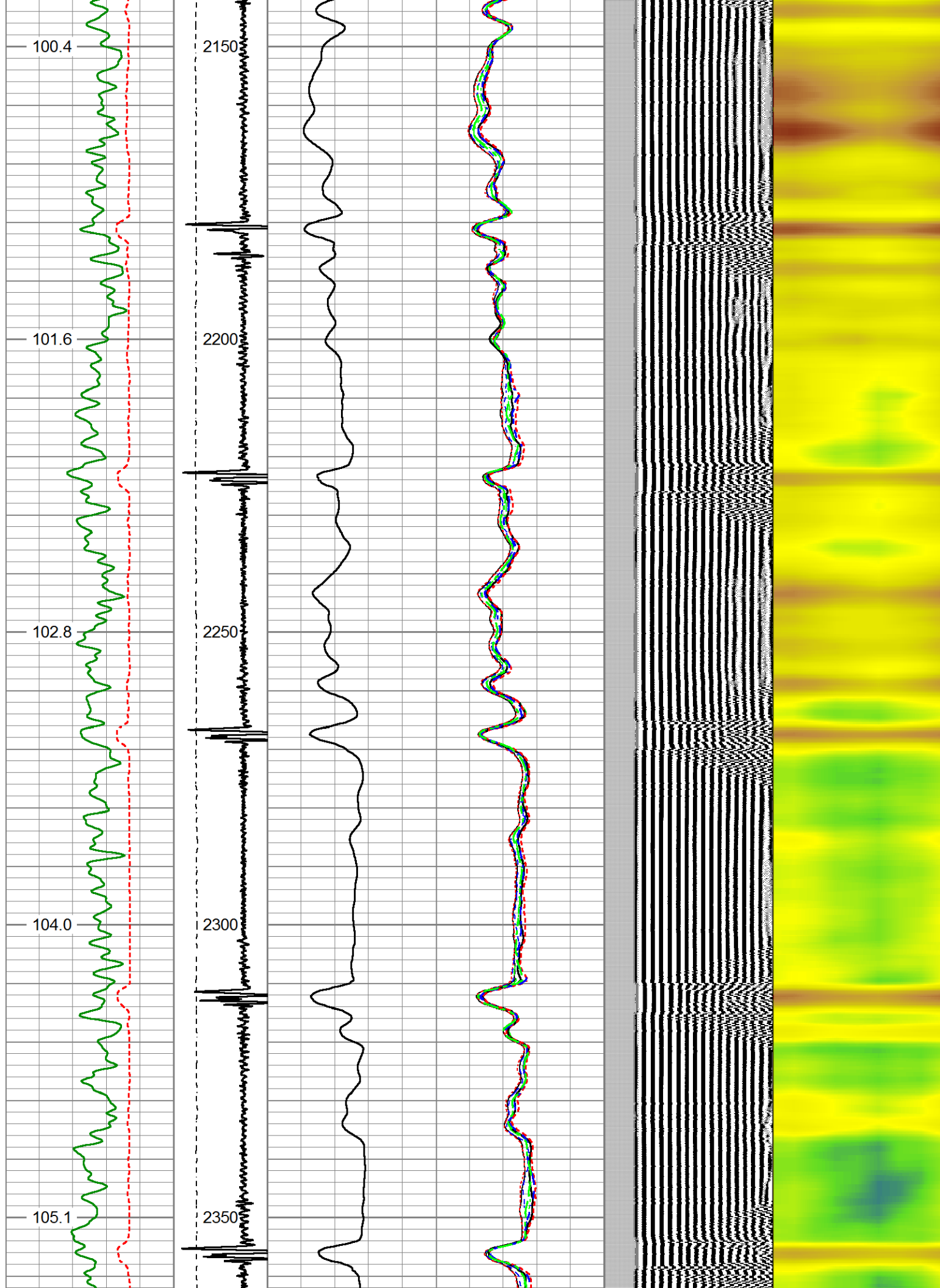




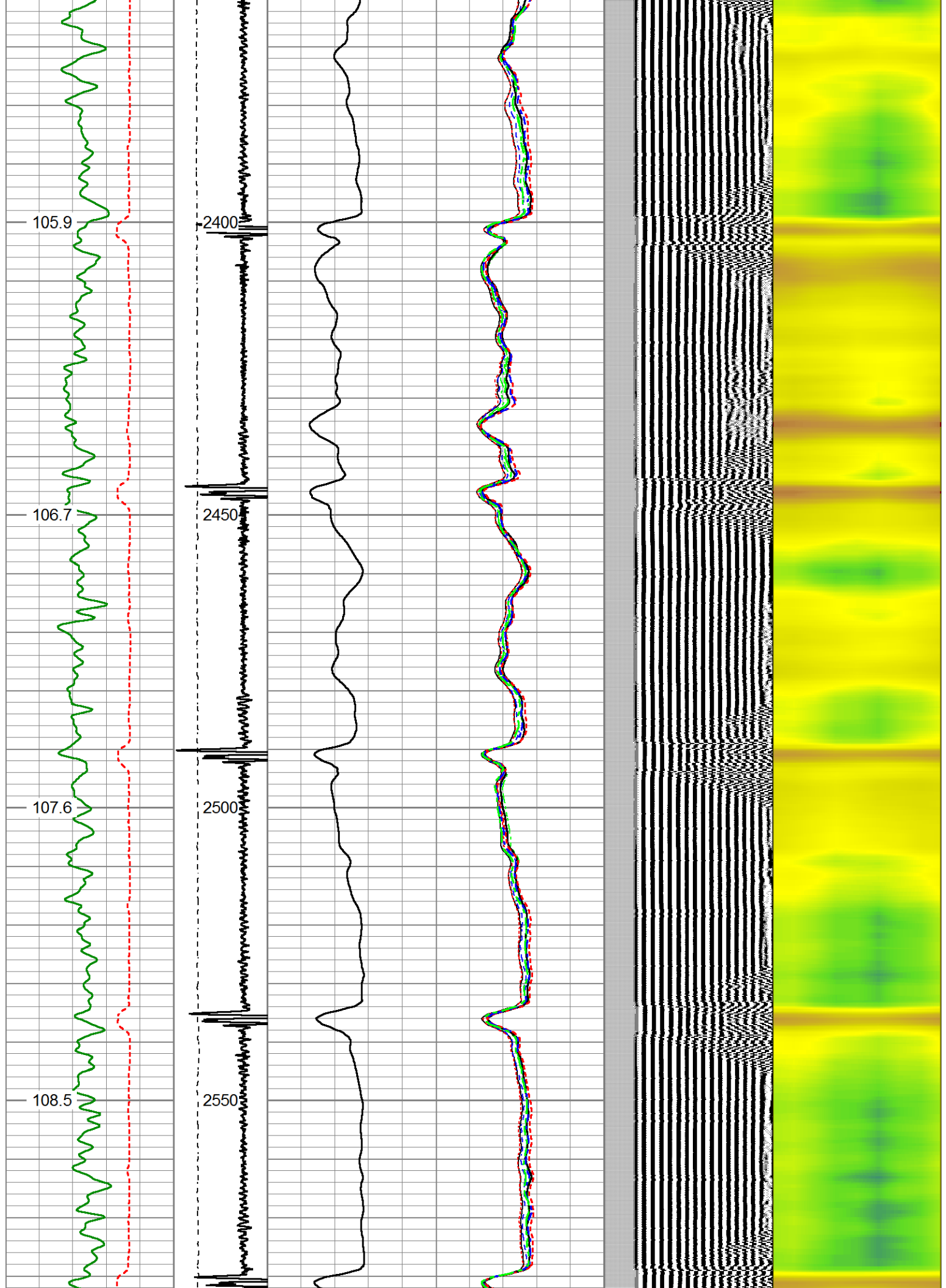


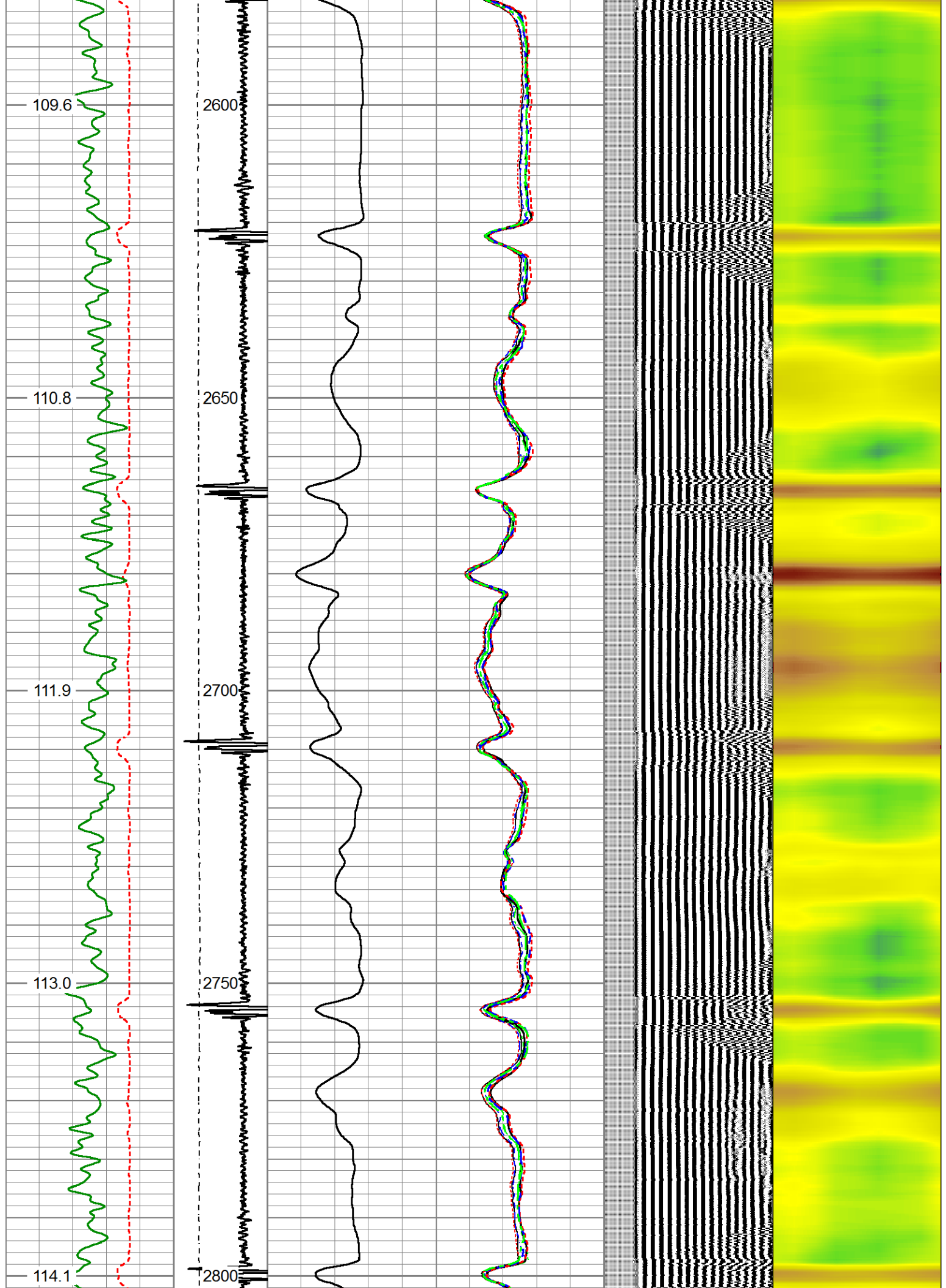


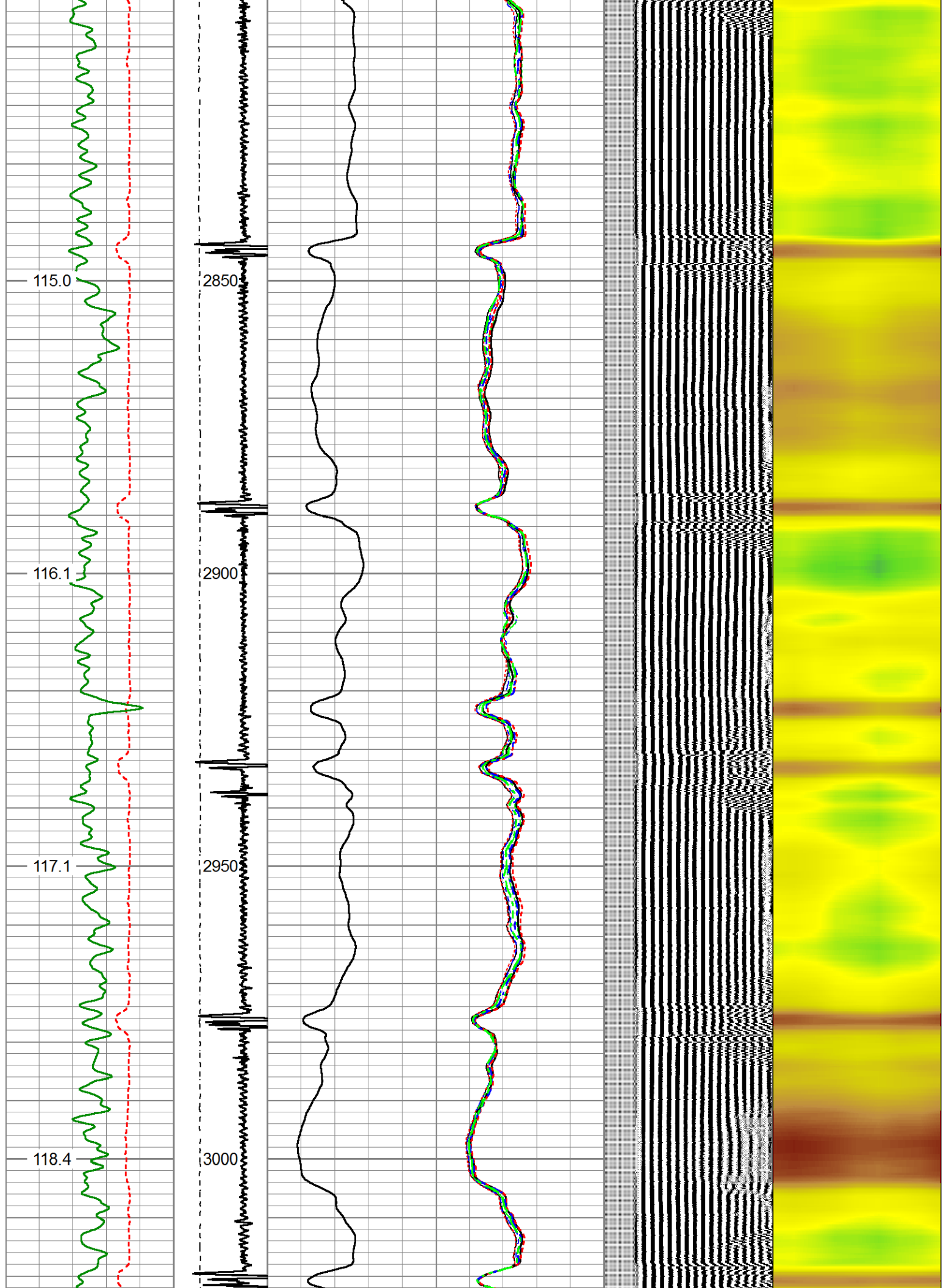




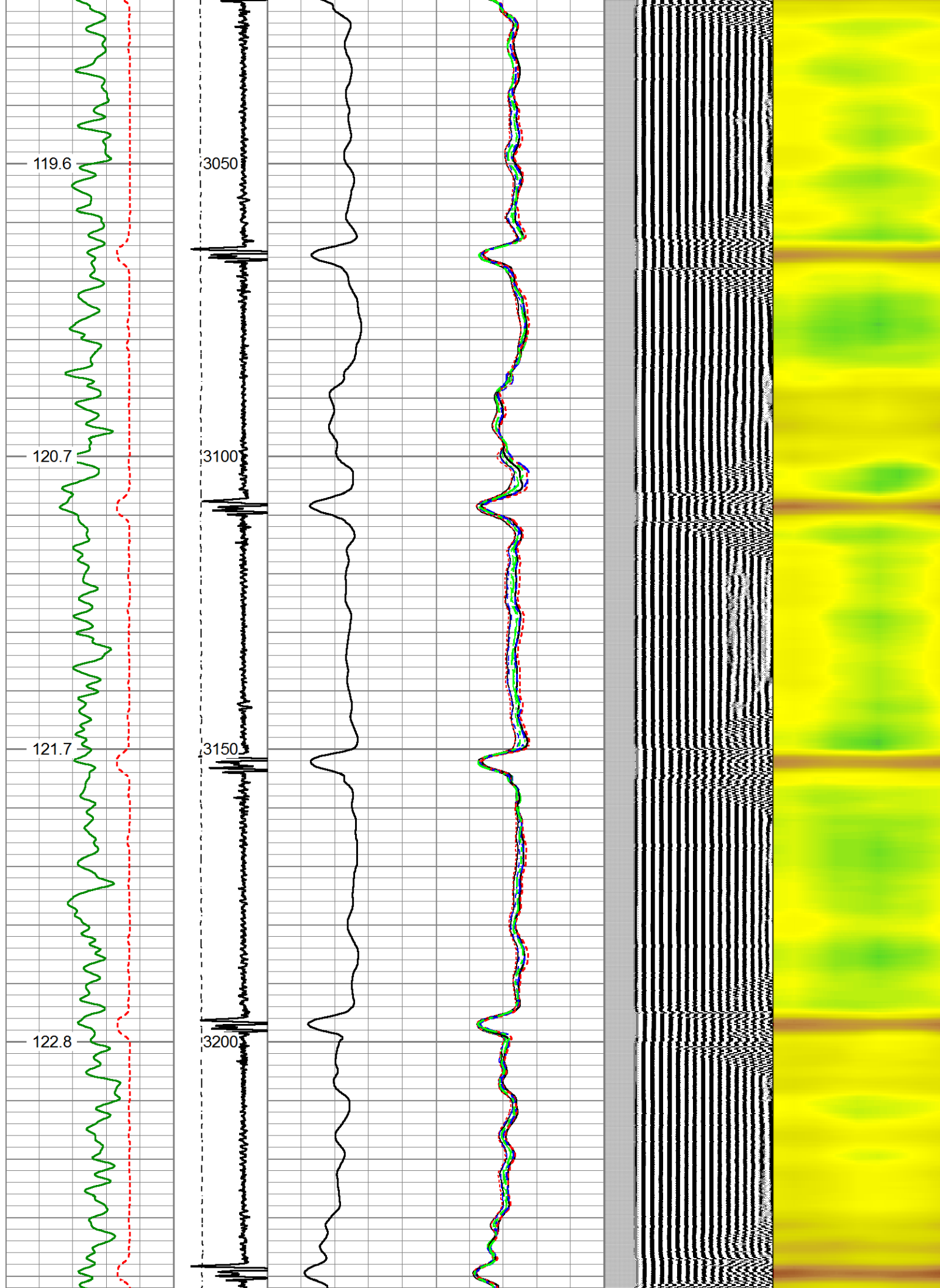


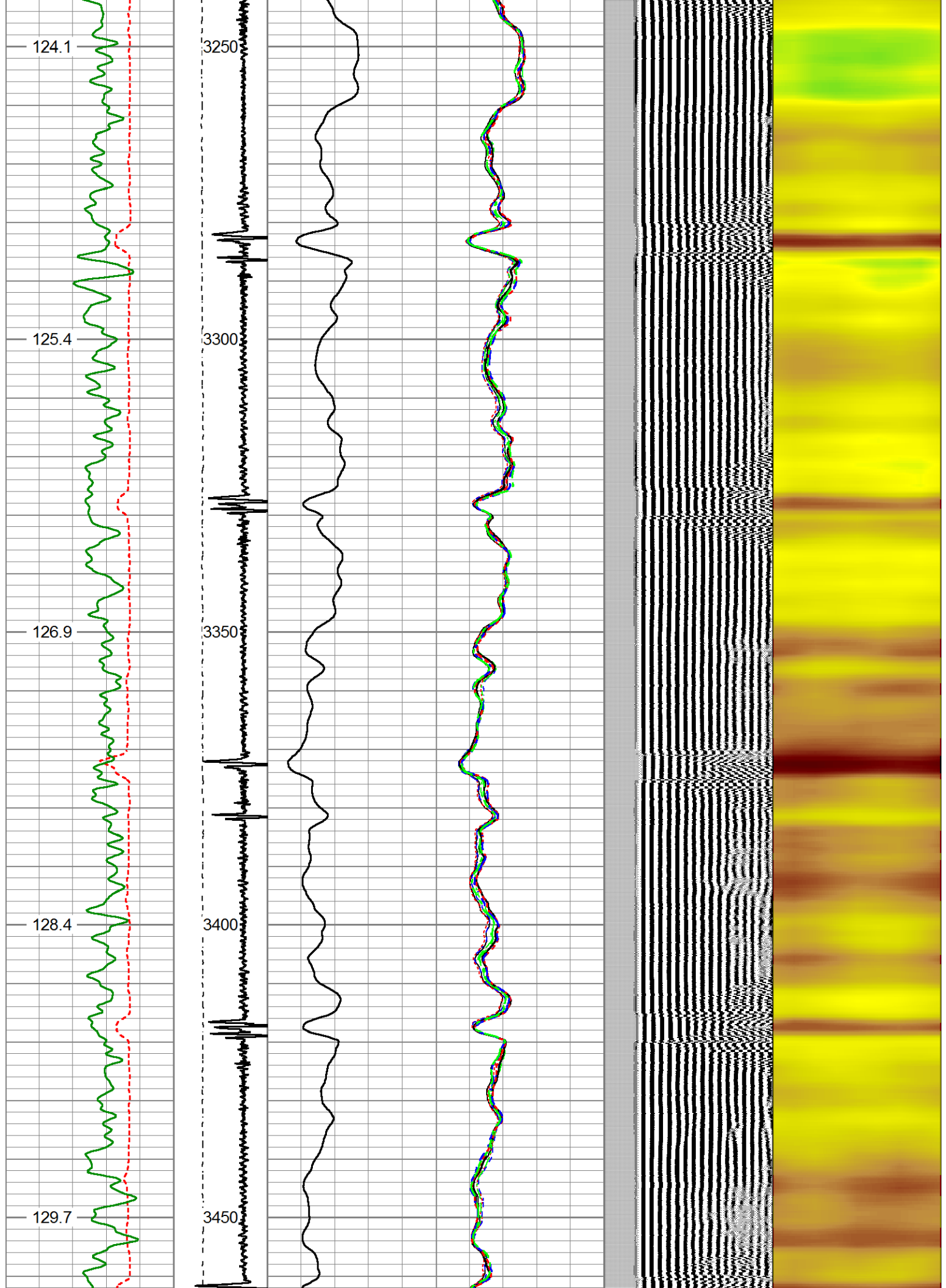


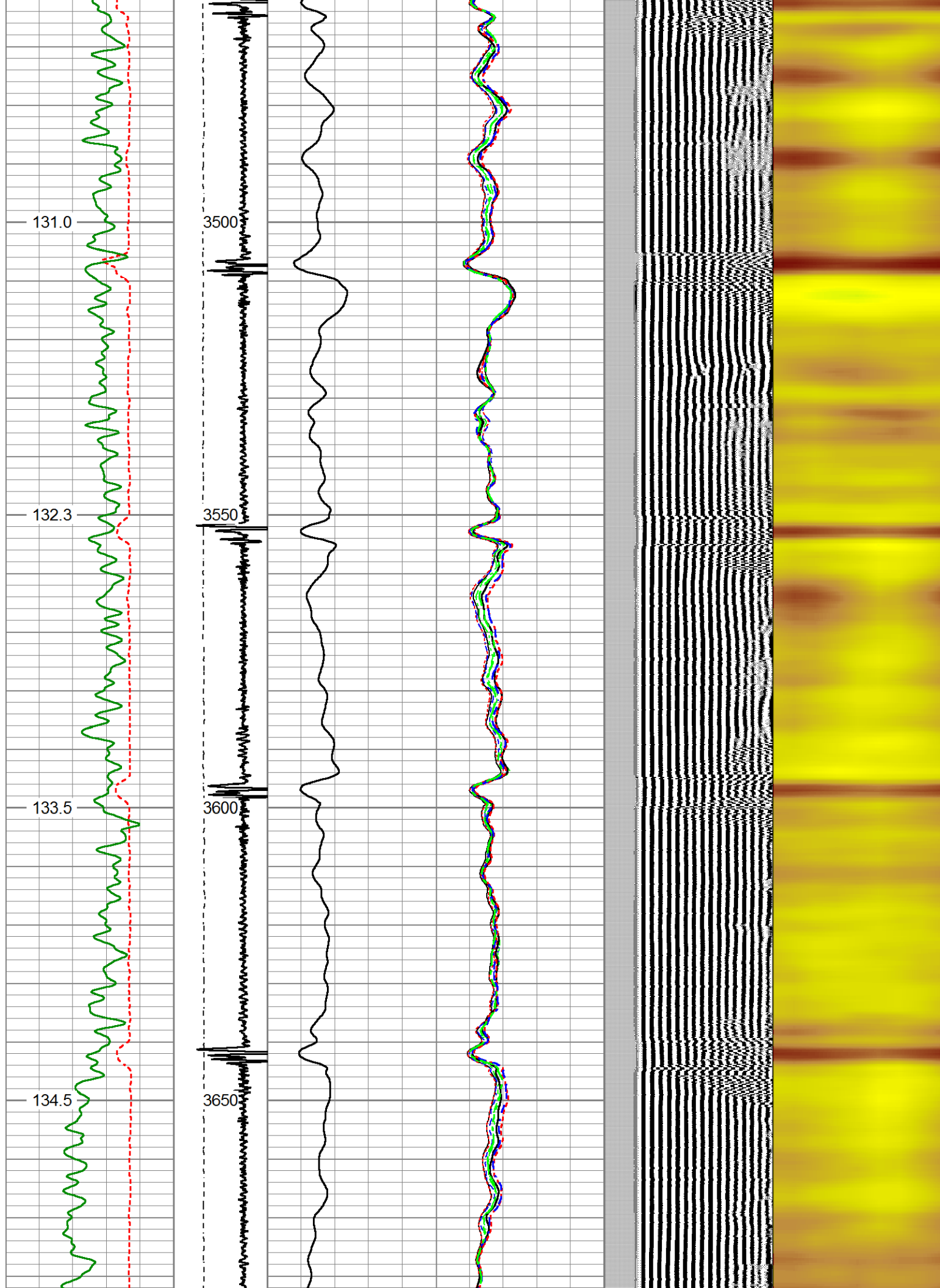




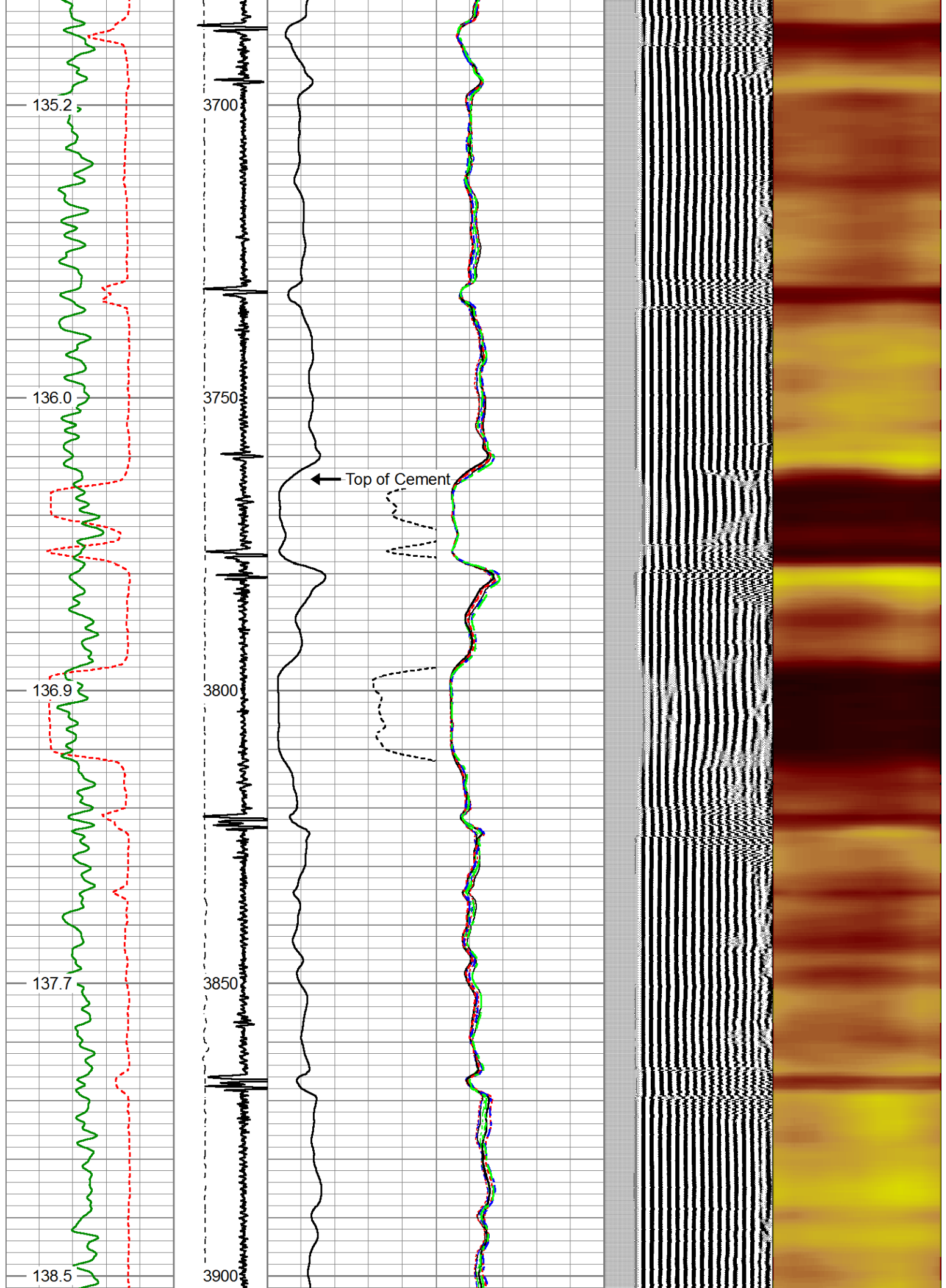


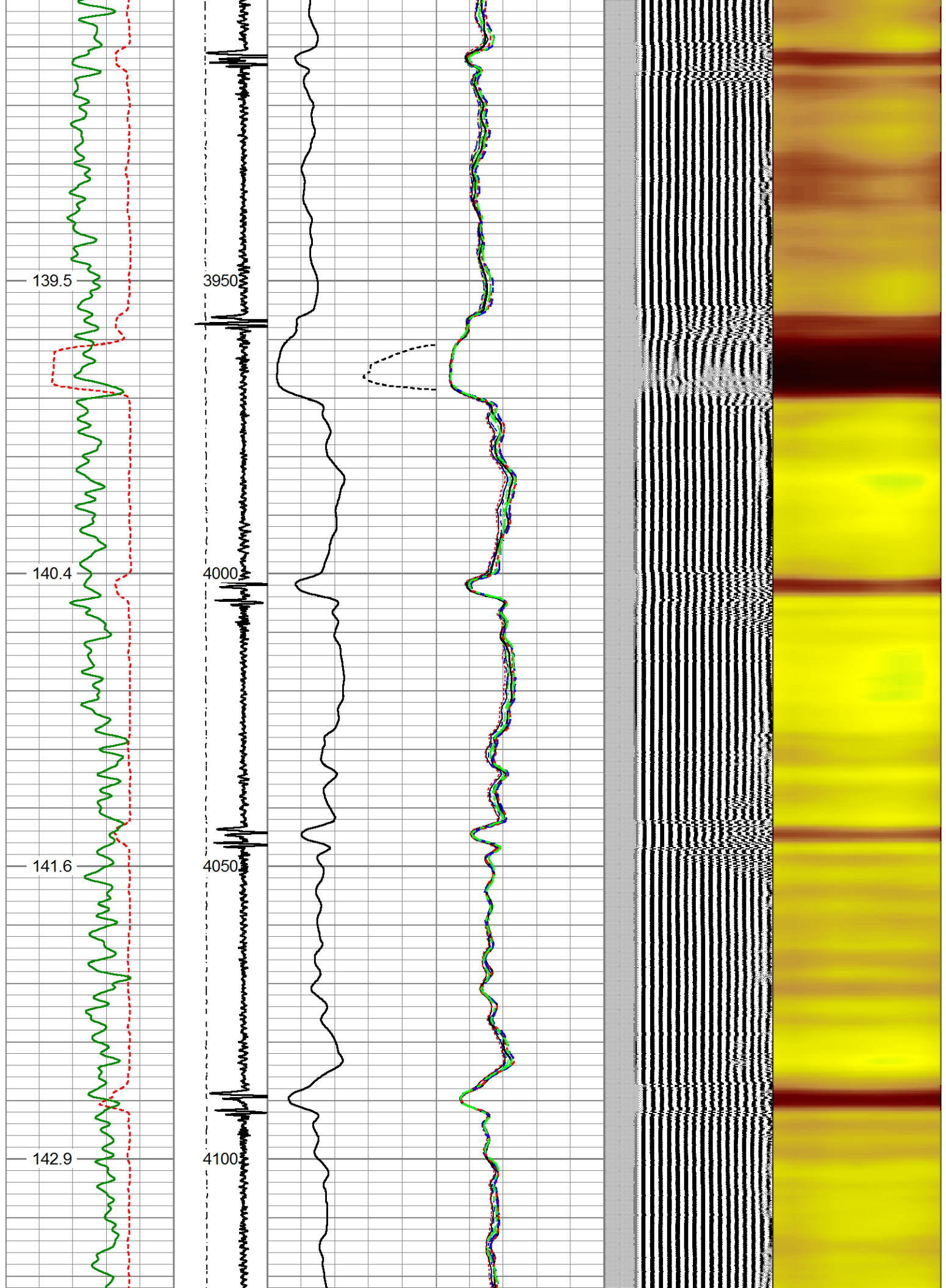


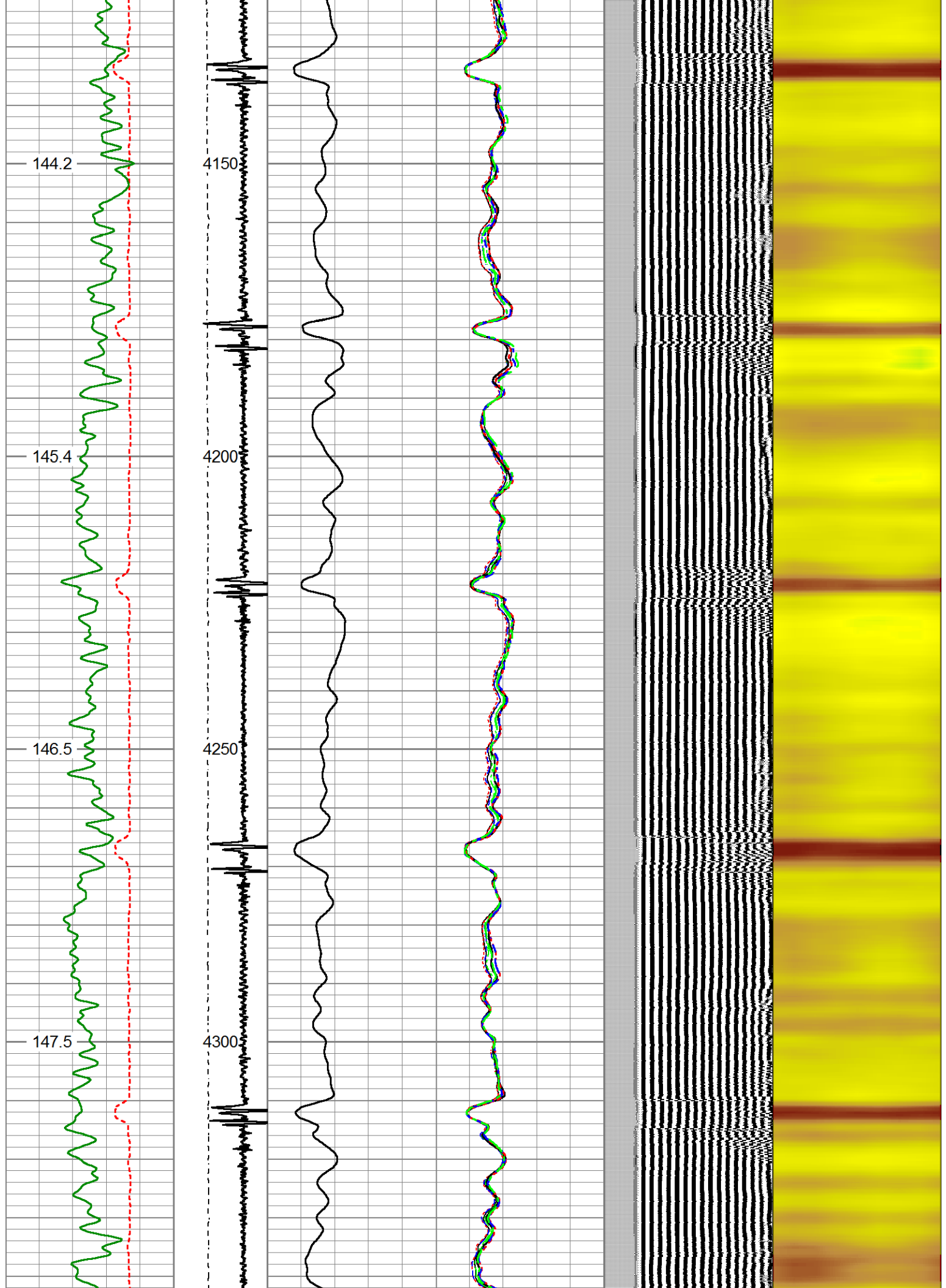




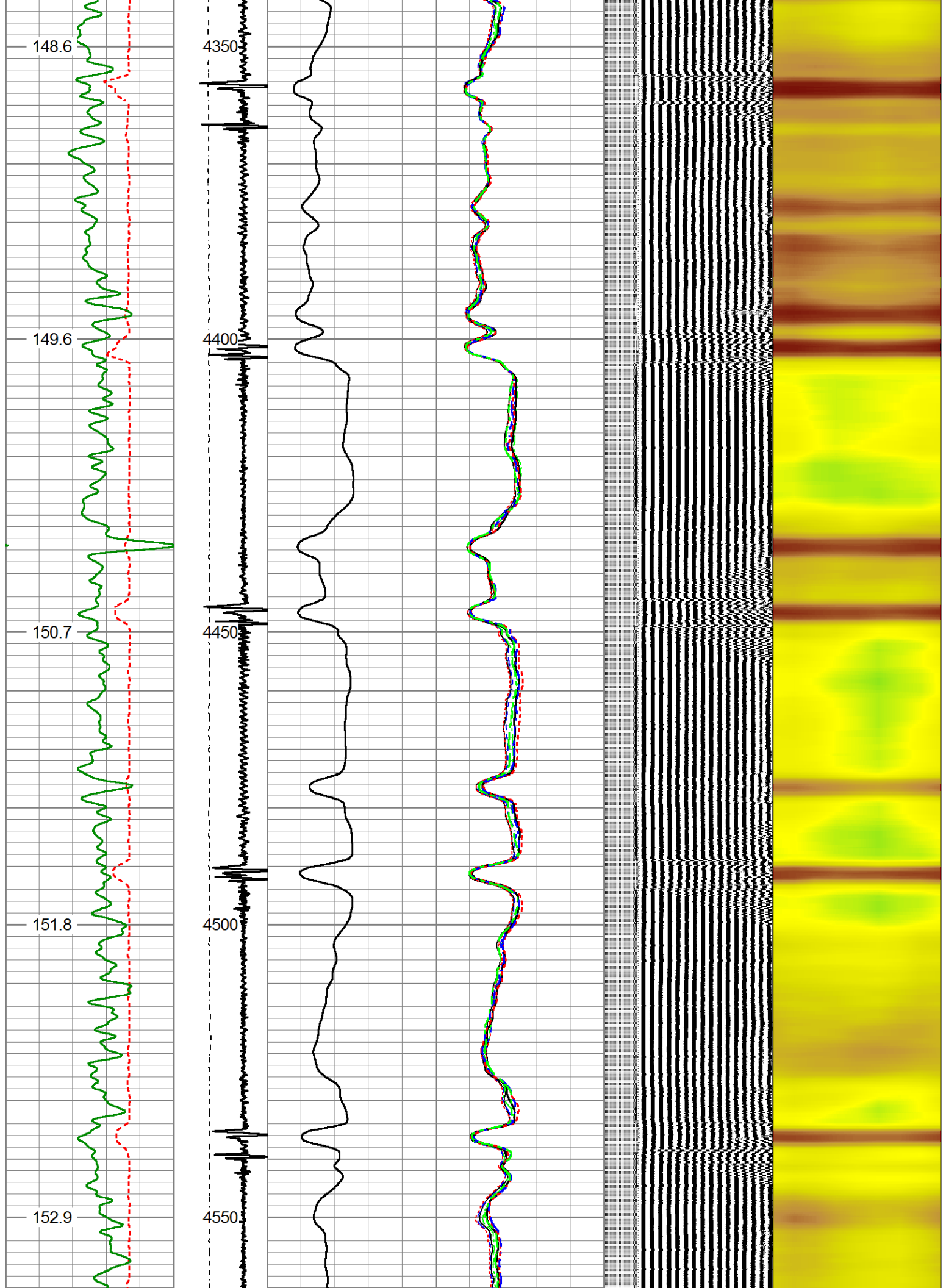


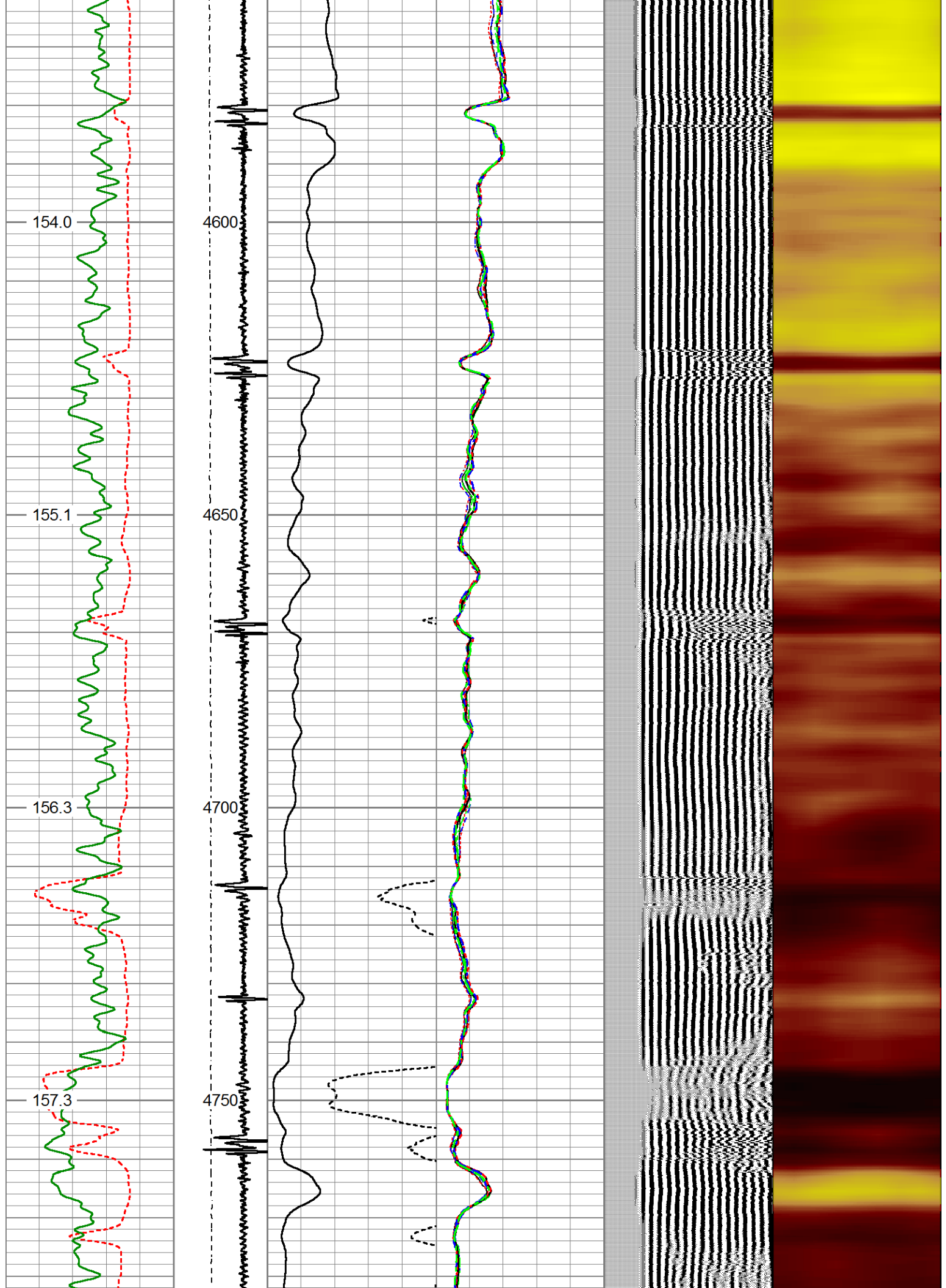


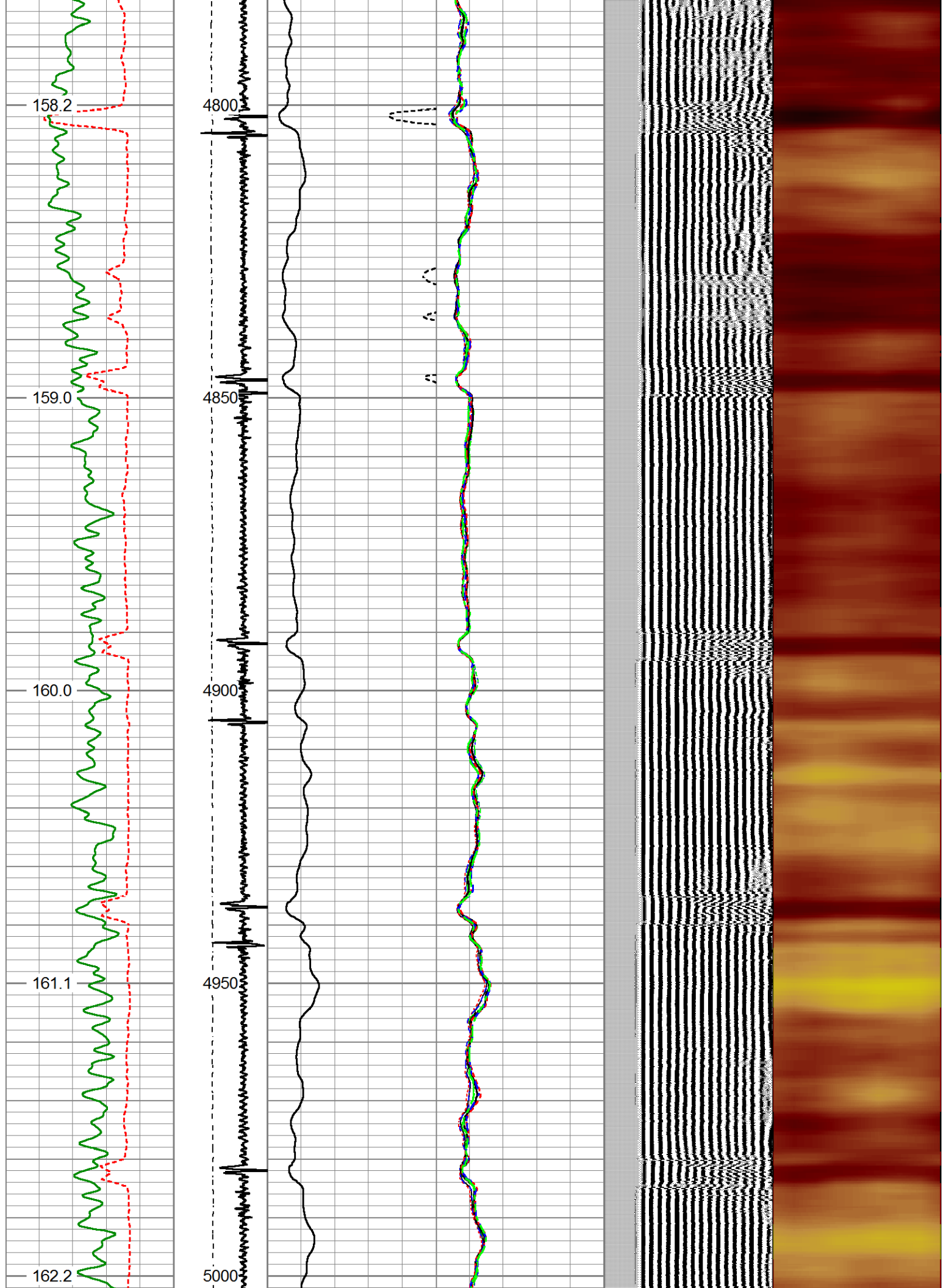




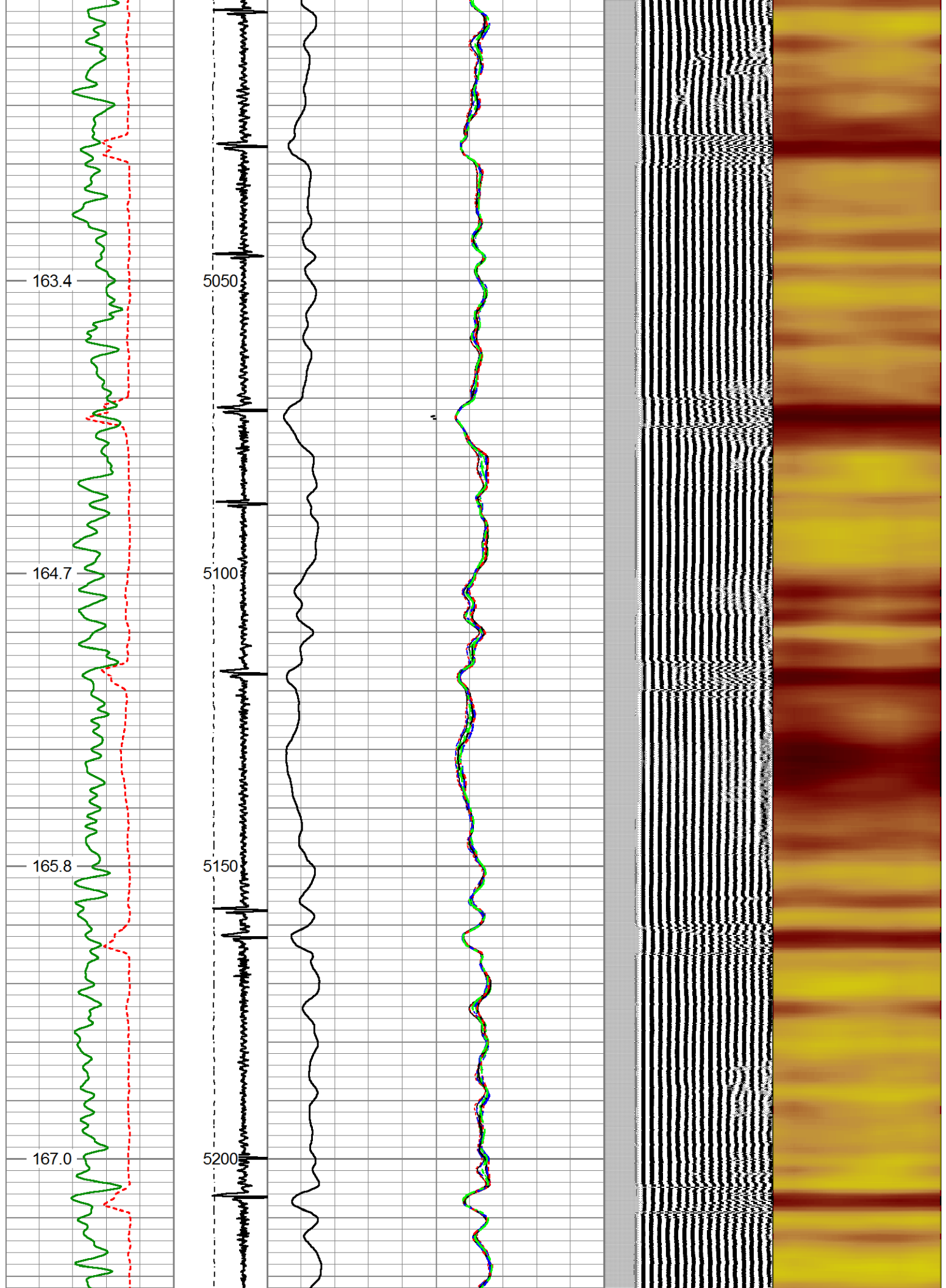


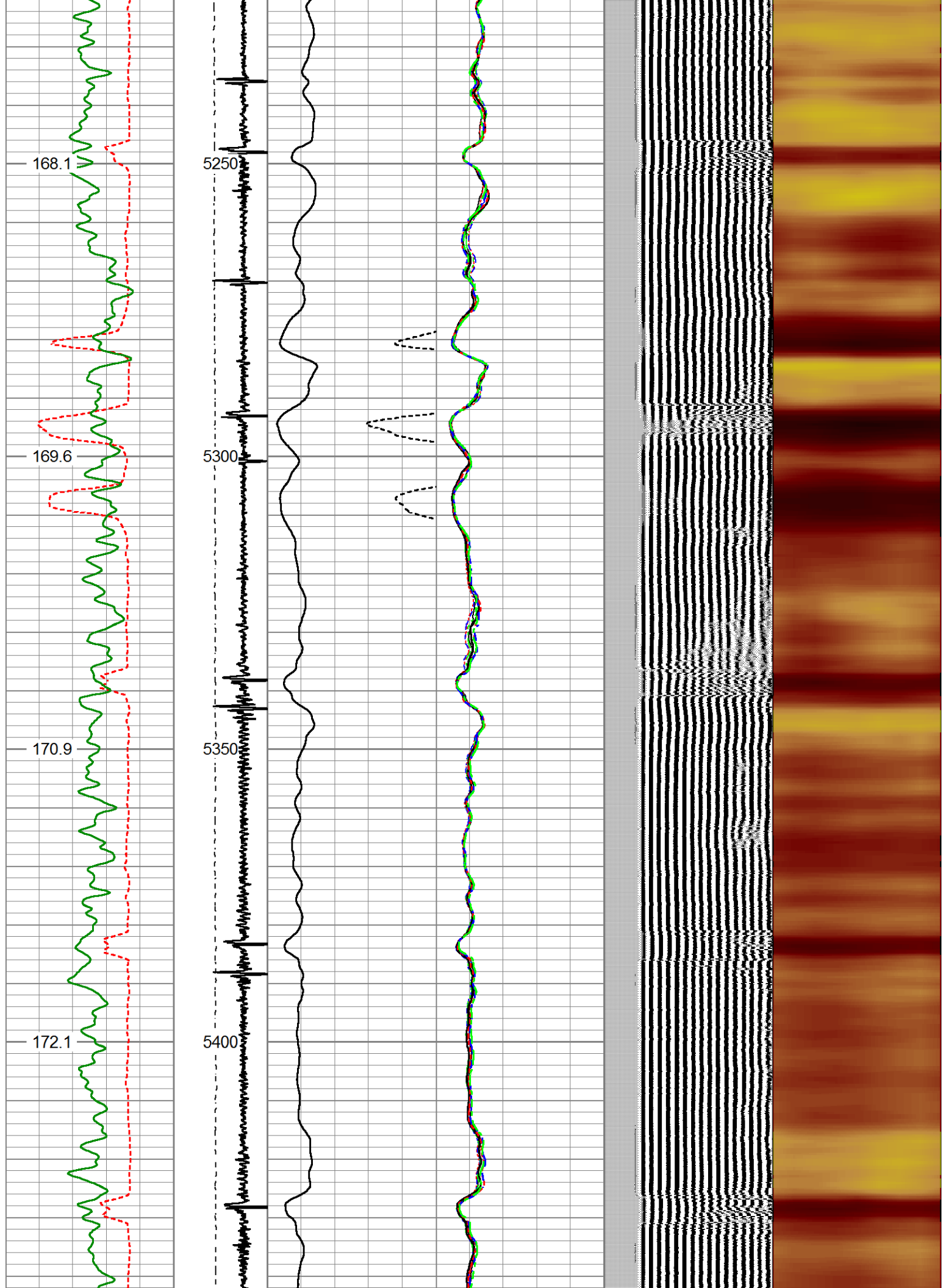


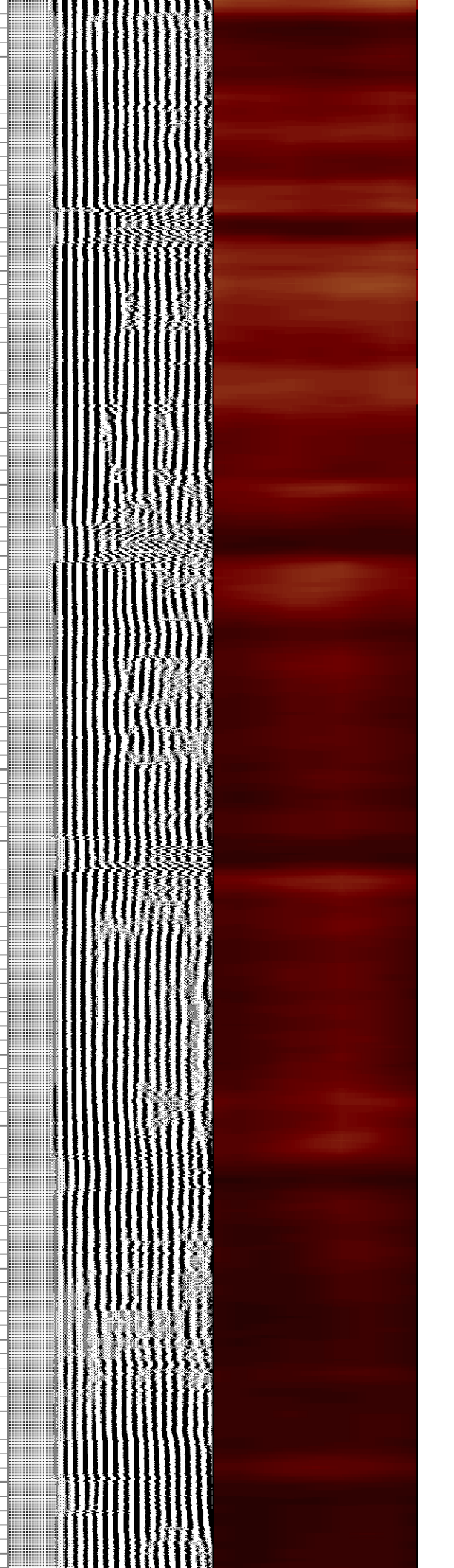
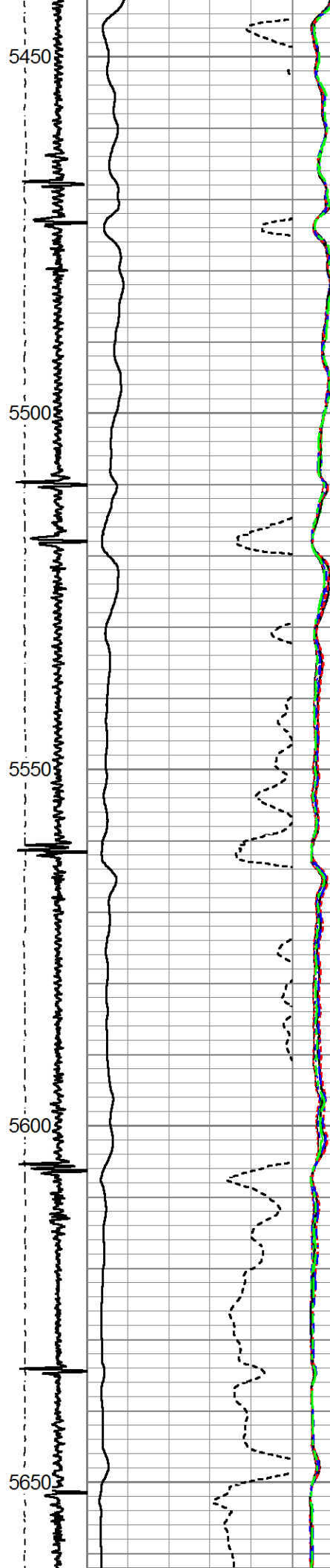
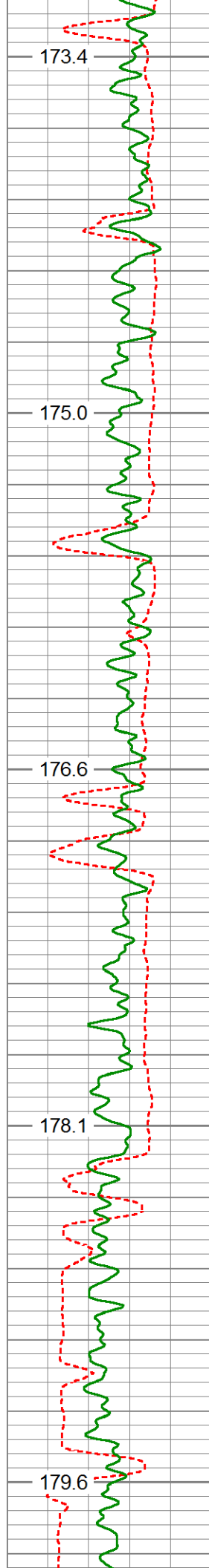




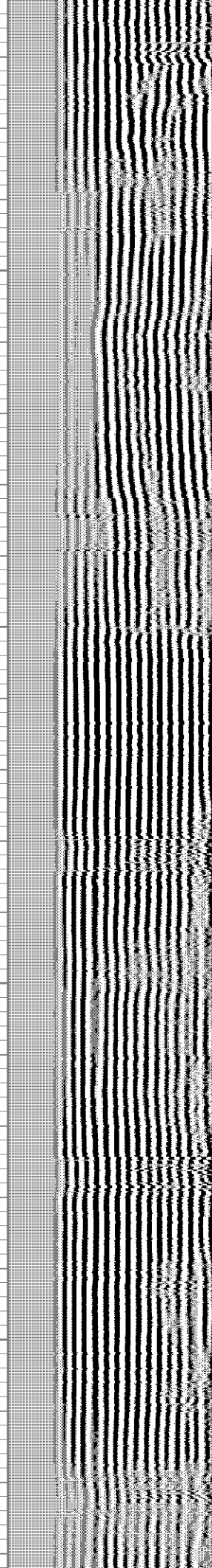
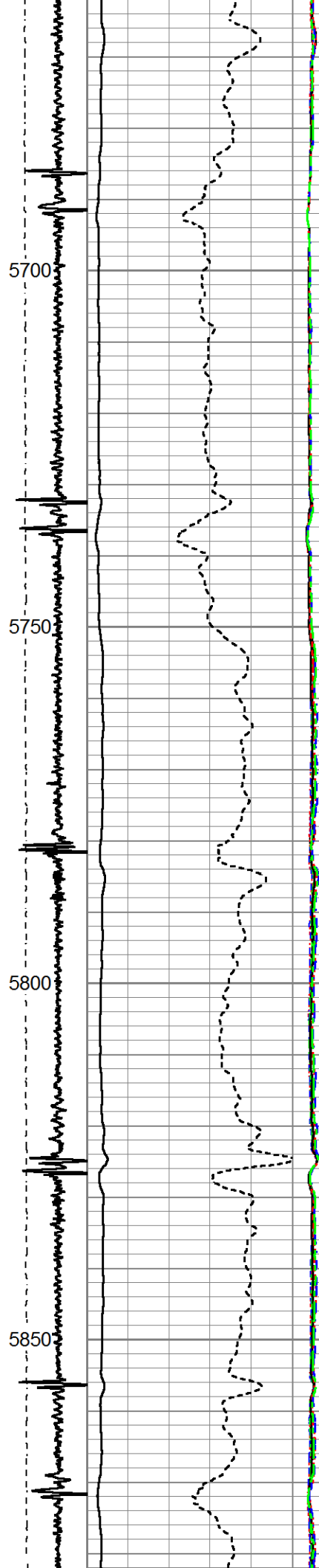
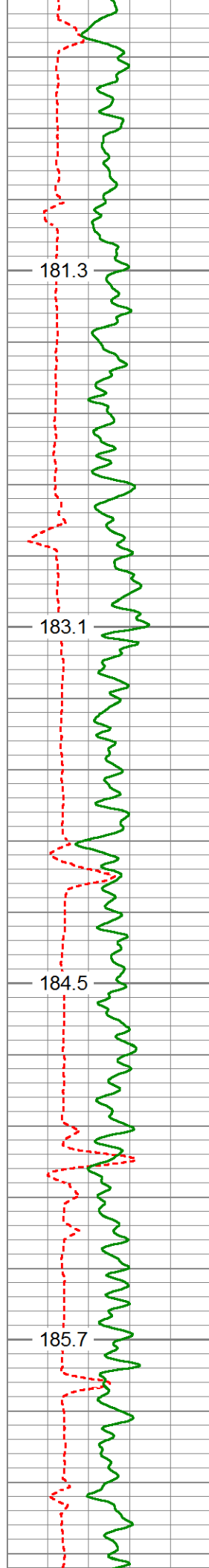


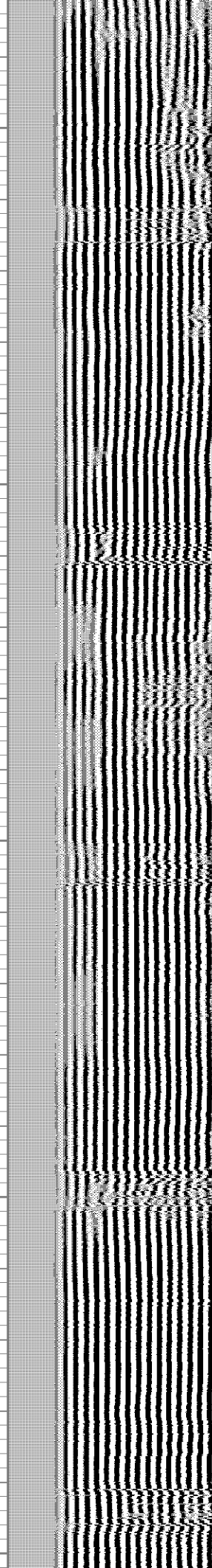
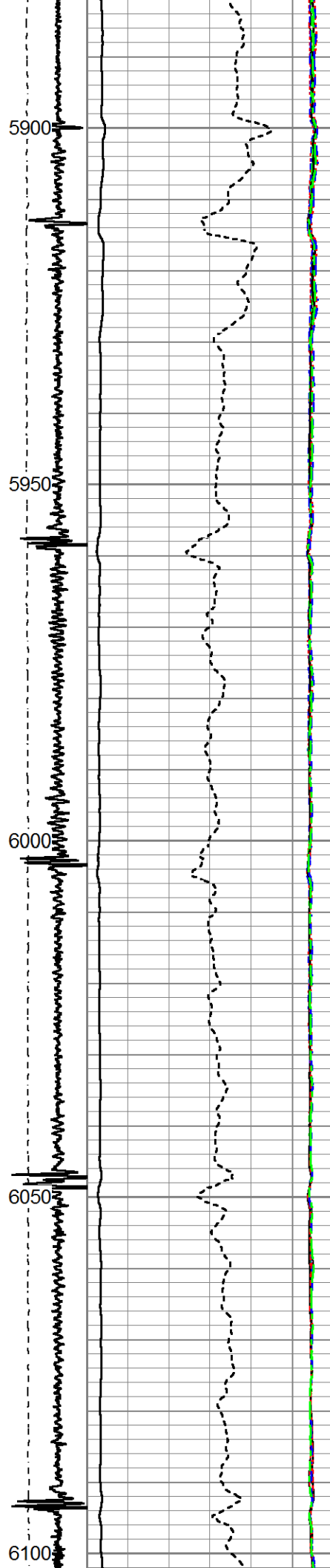
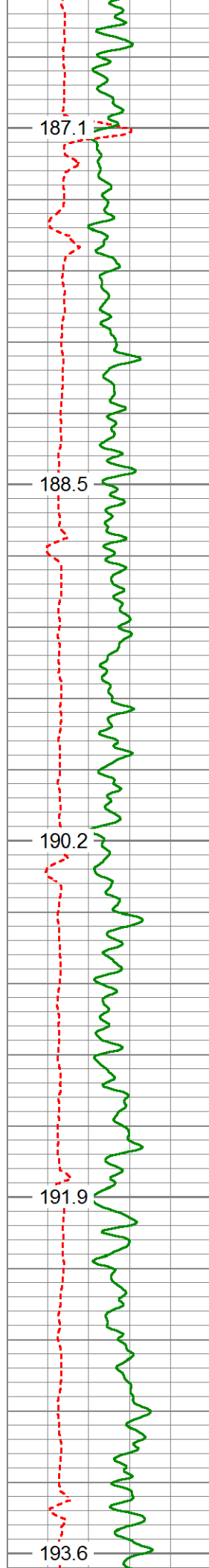


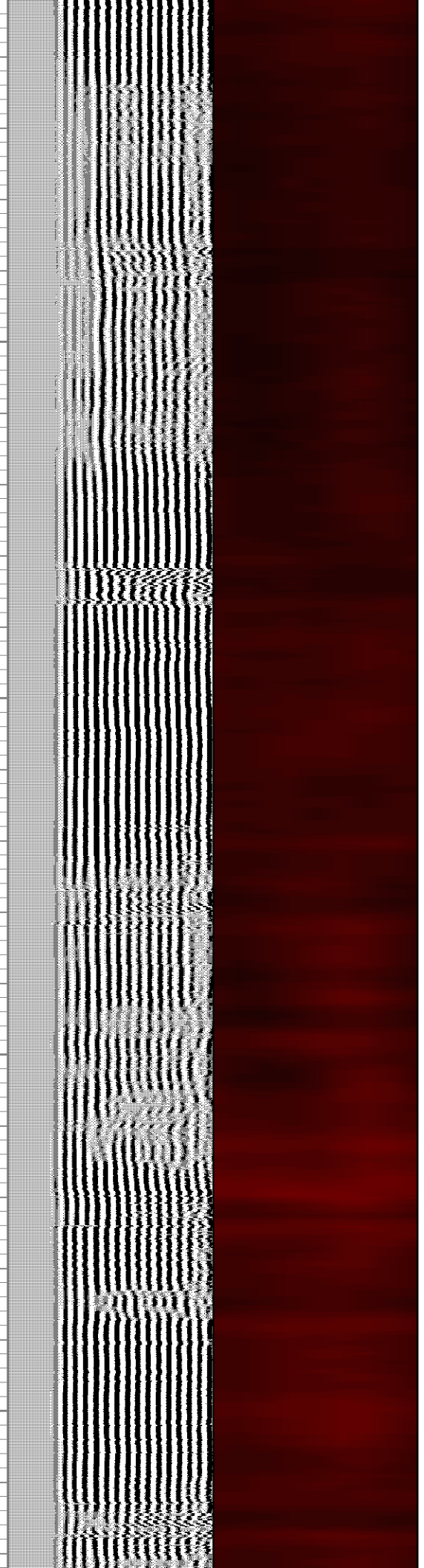
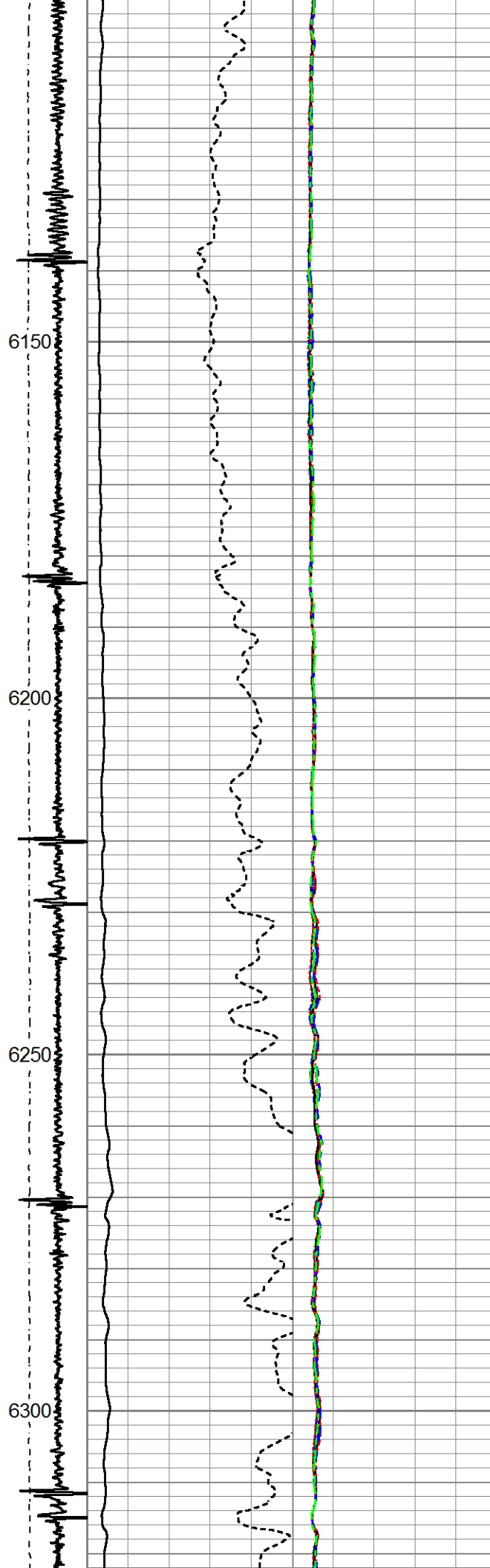
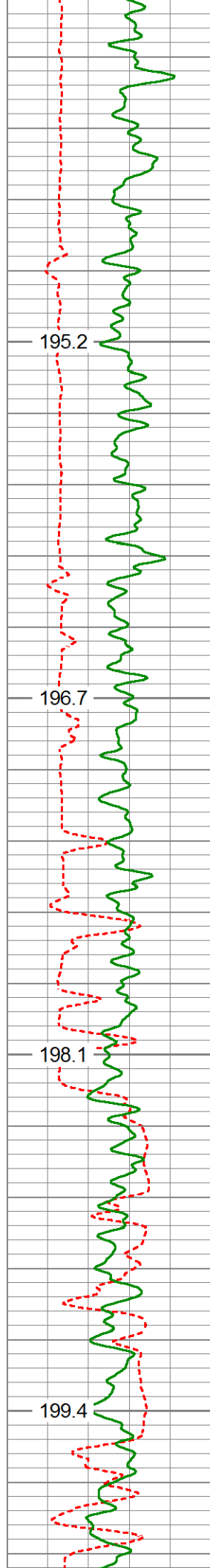




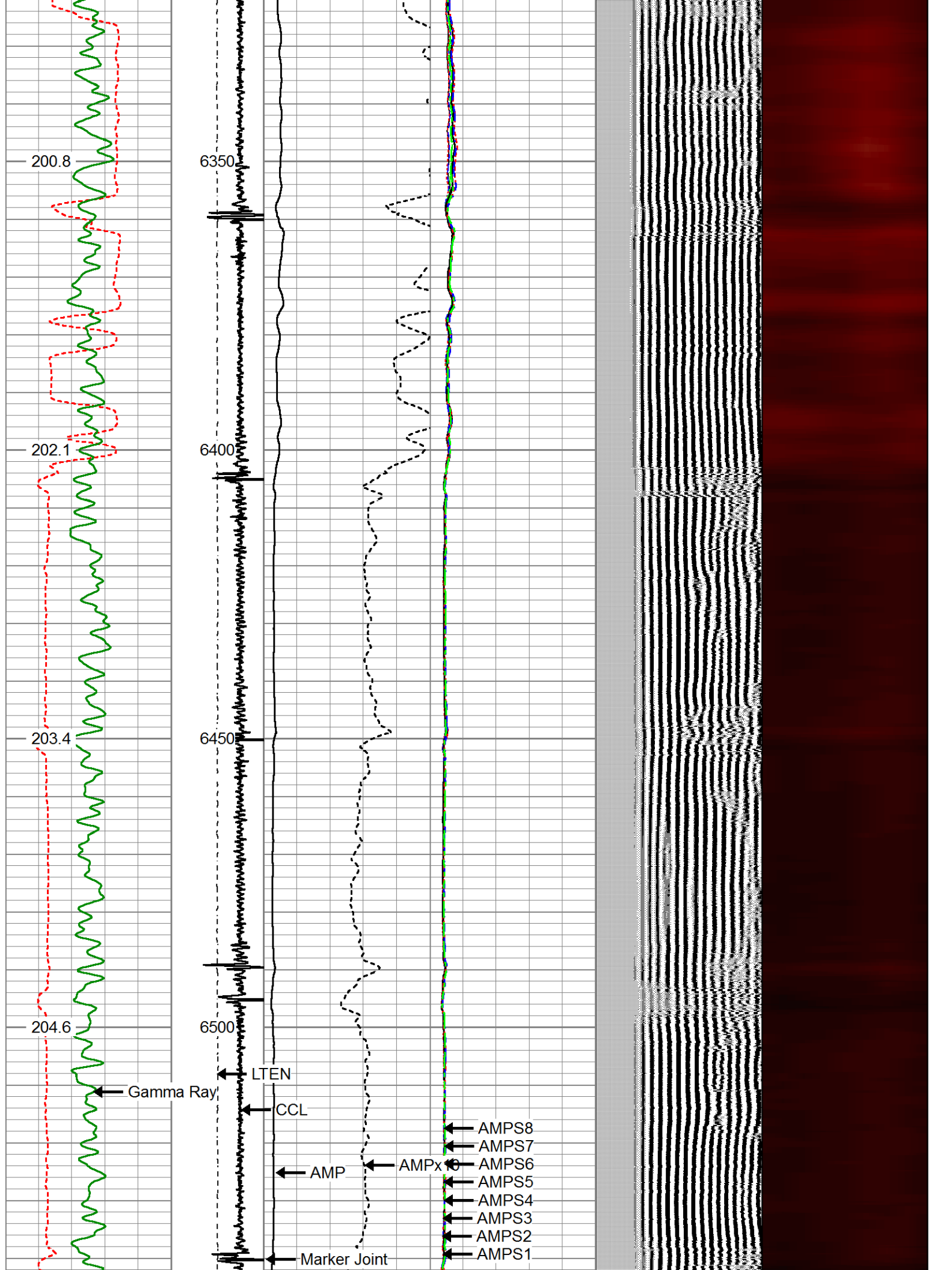






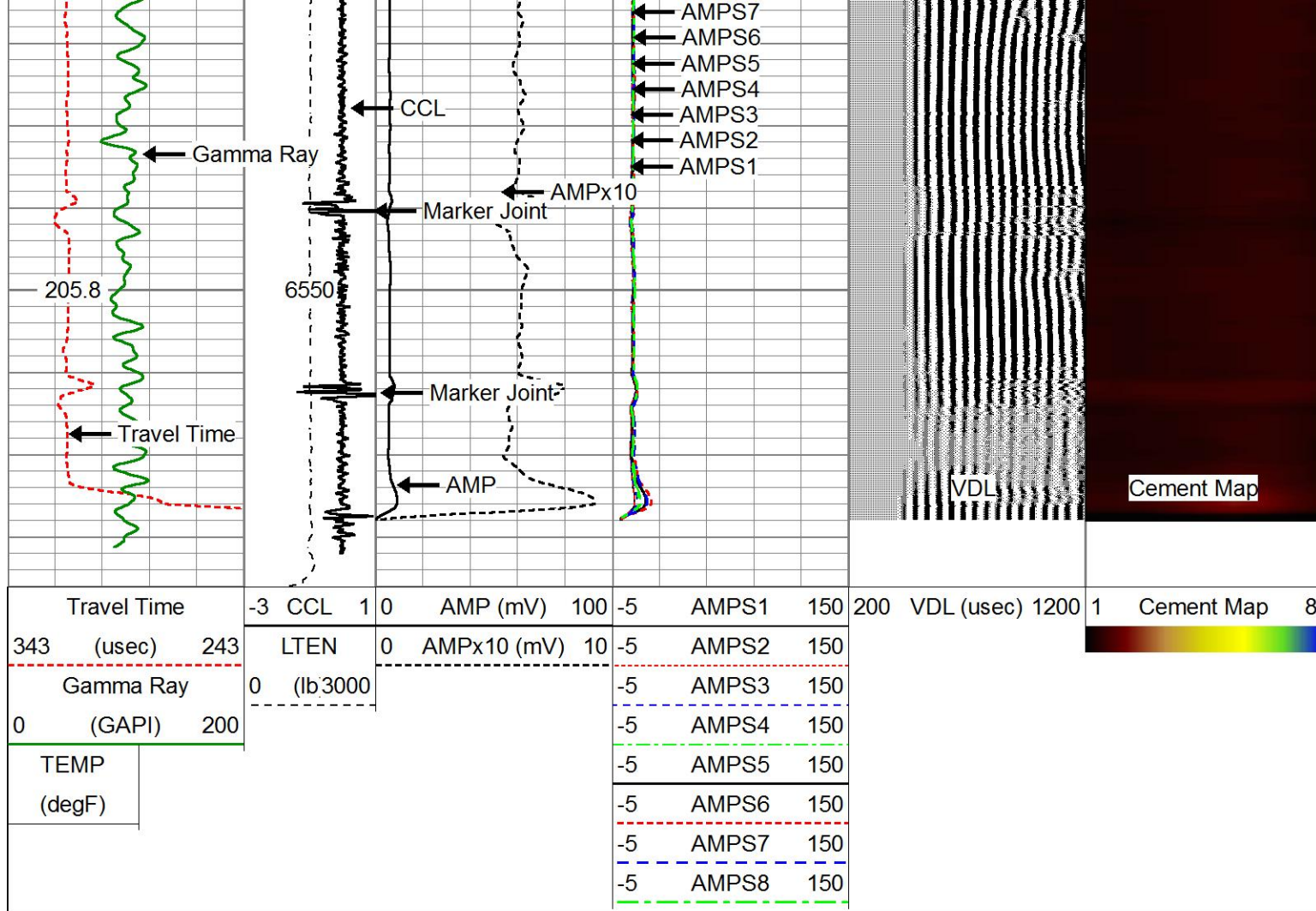








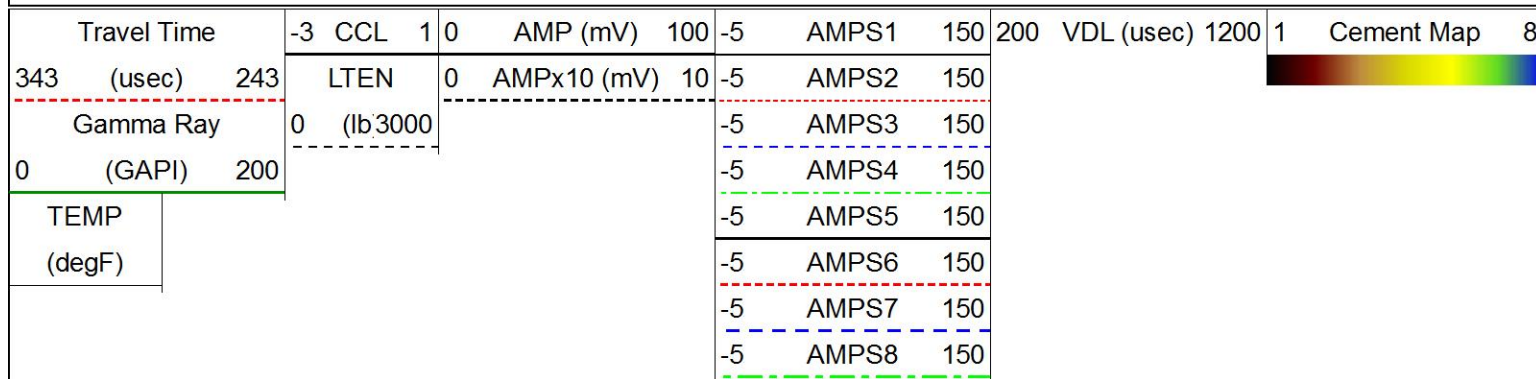




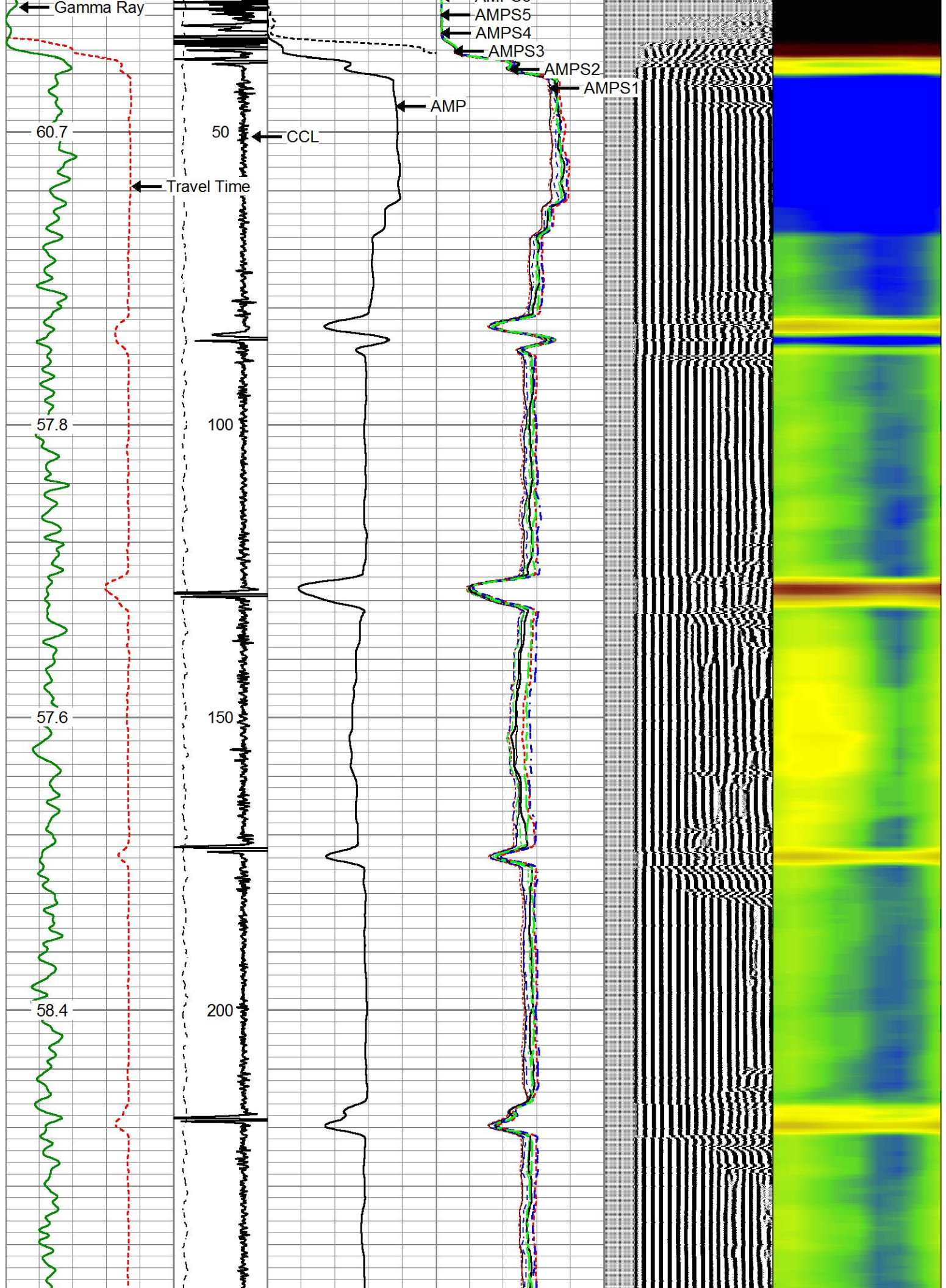
## MAIN PASS, 2800 PSI

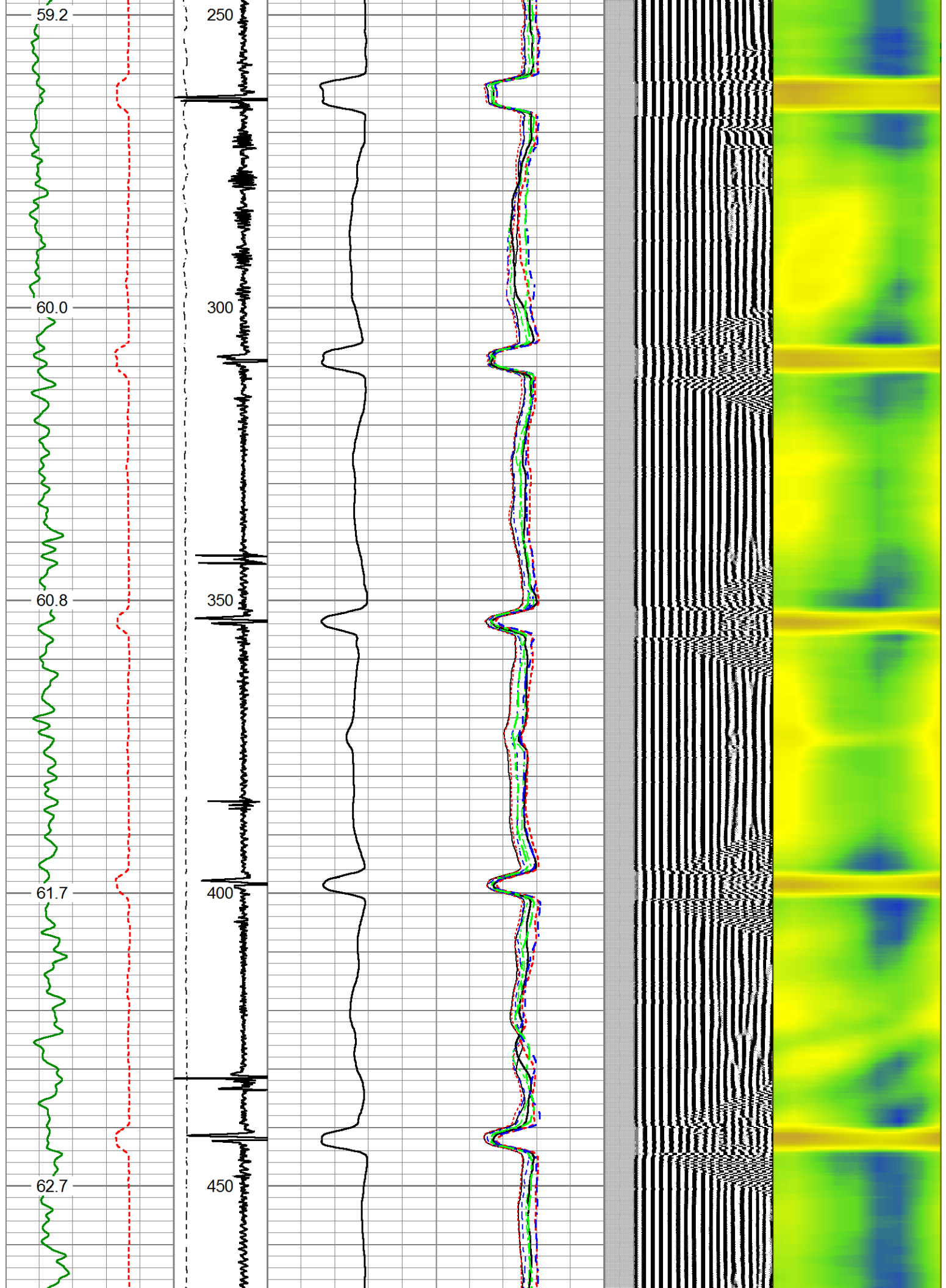
5" = 100'

Database File damore 18-4hz.db  
Dataset Pathname LOG1/pass6  
Presentation Format rbt-gct8acc  
Dataset Creation Sat May 16 11:10:06 2020  
Charted by Depth in Feet scaled 1:240

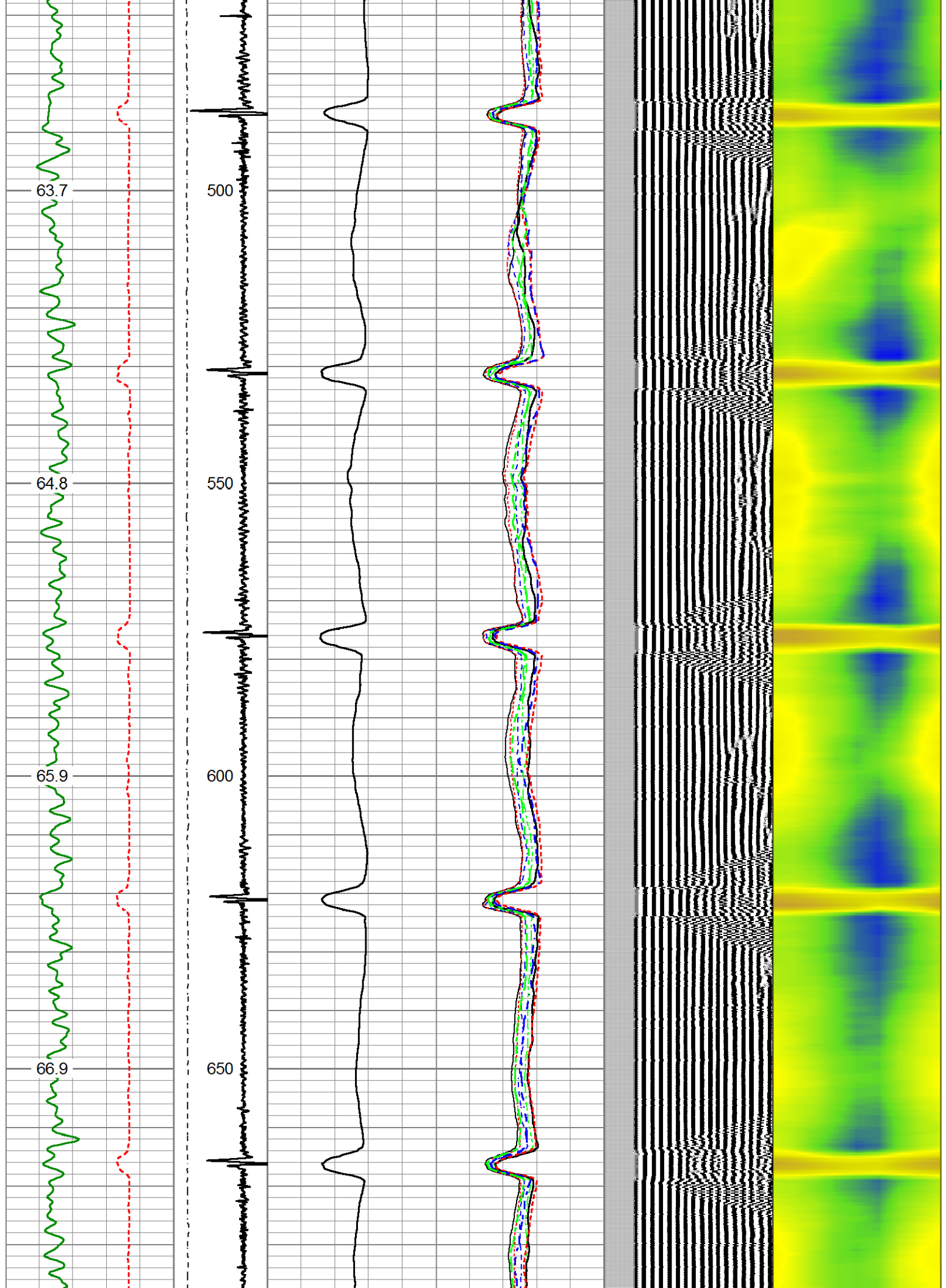




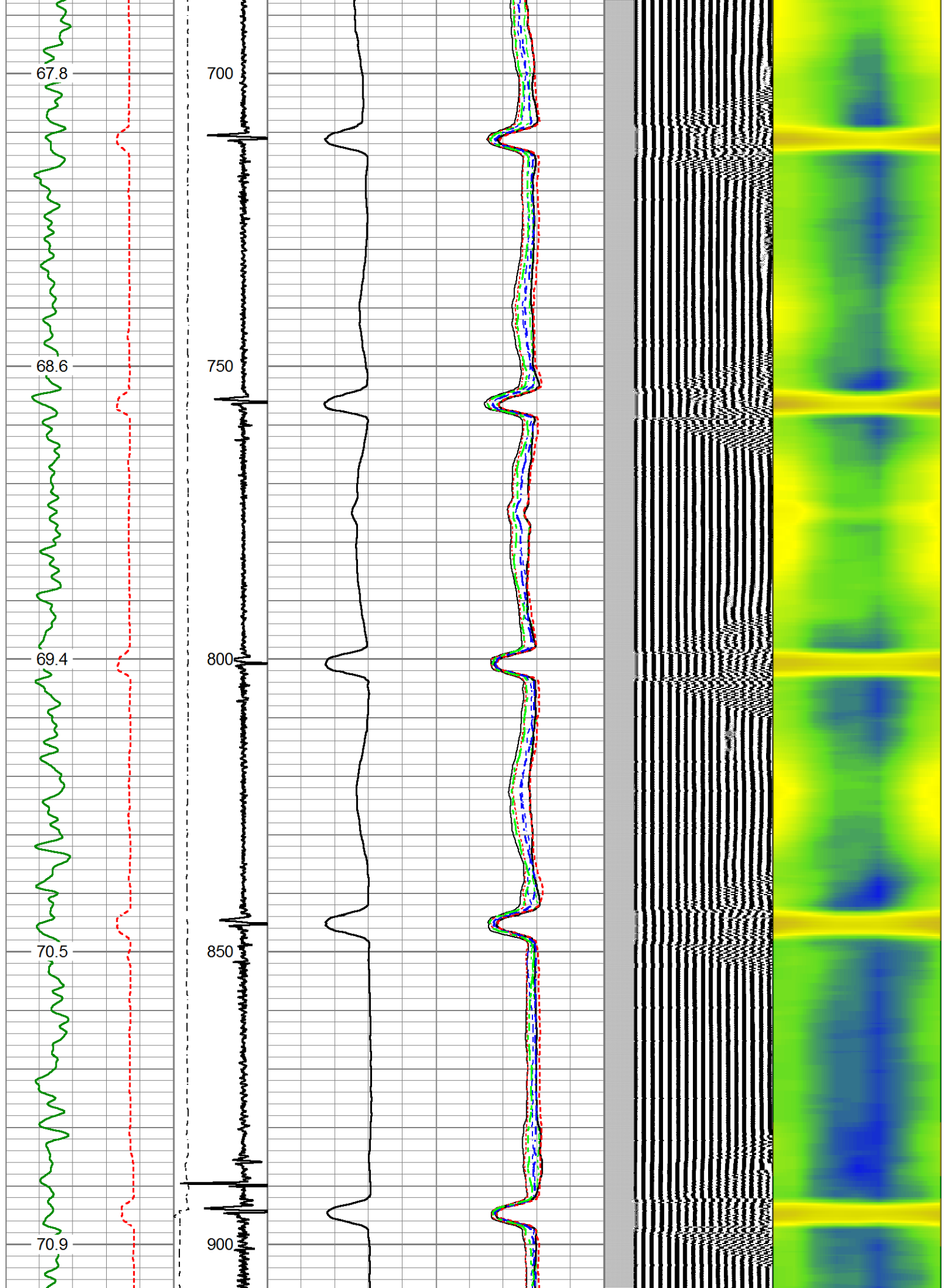


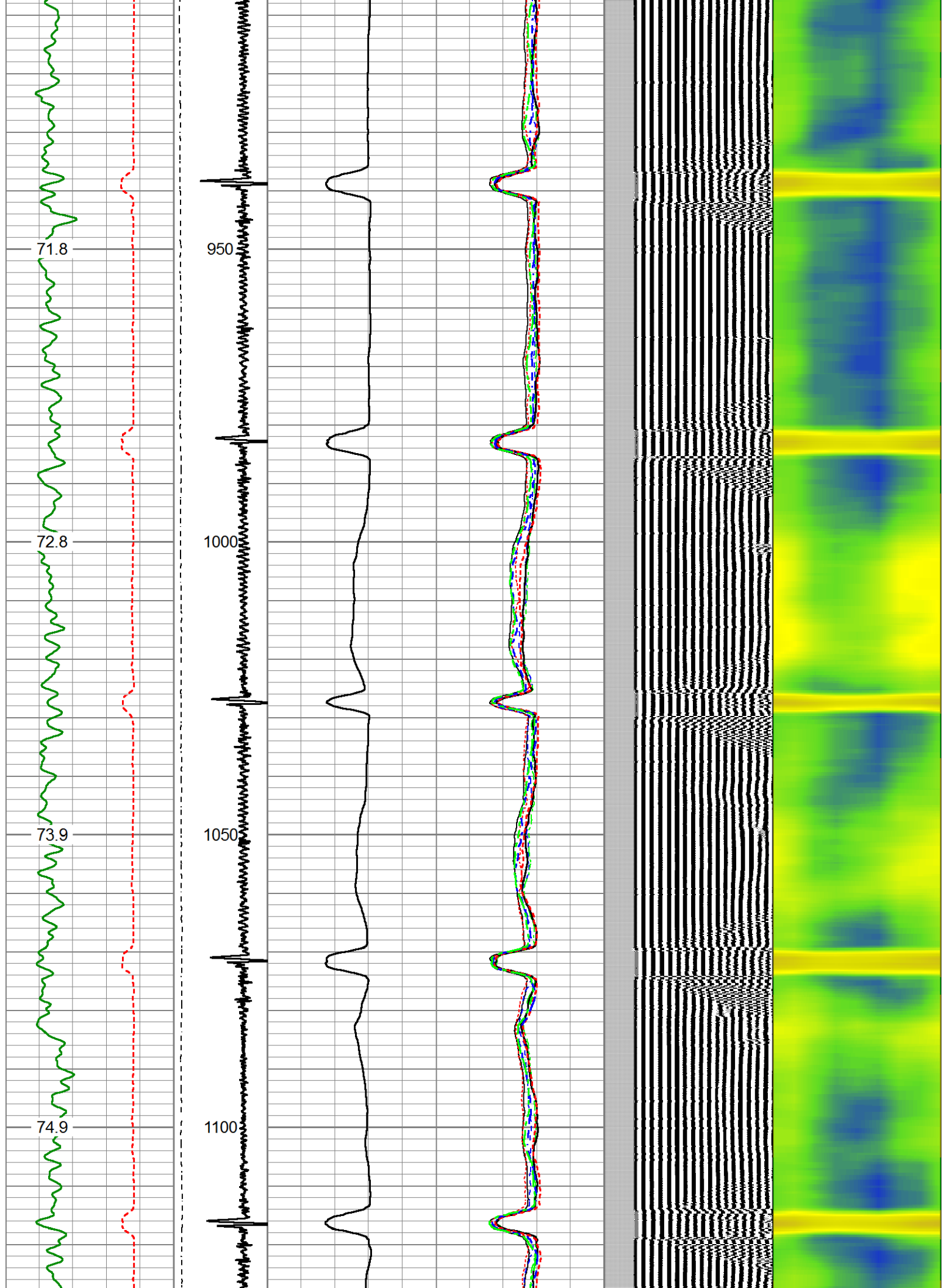


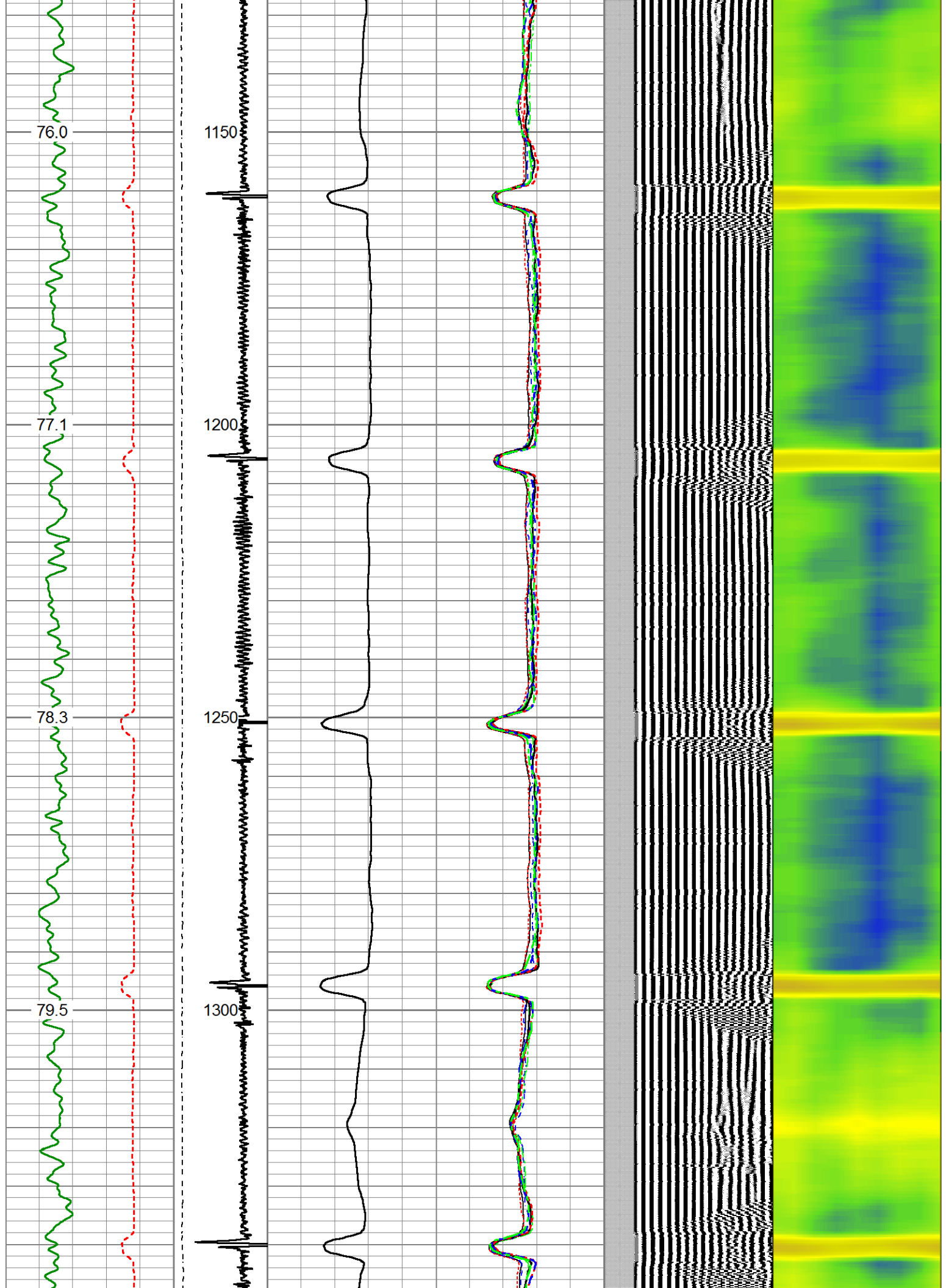




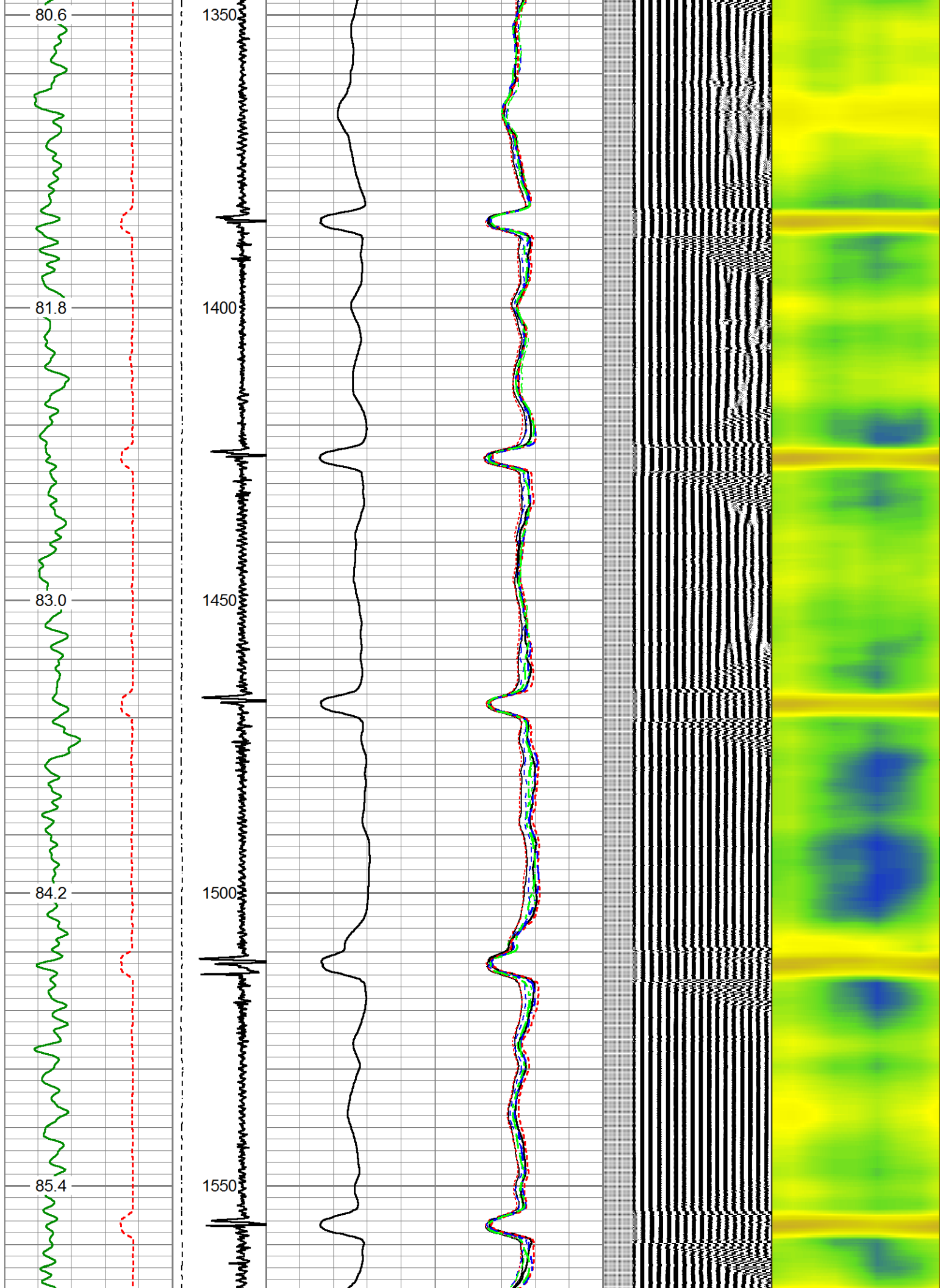


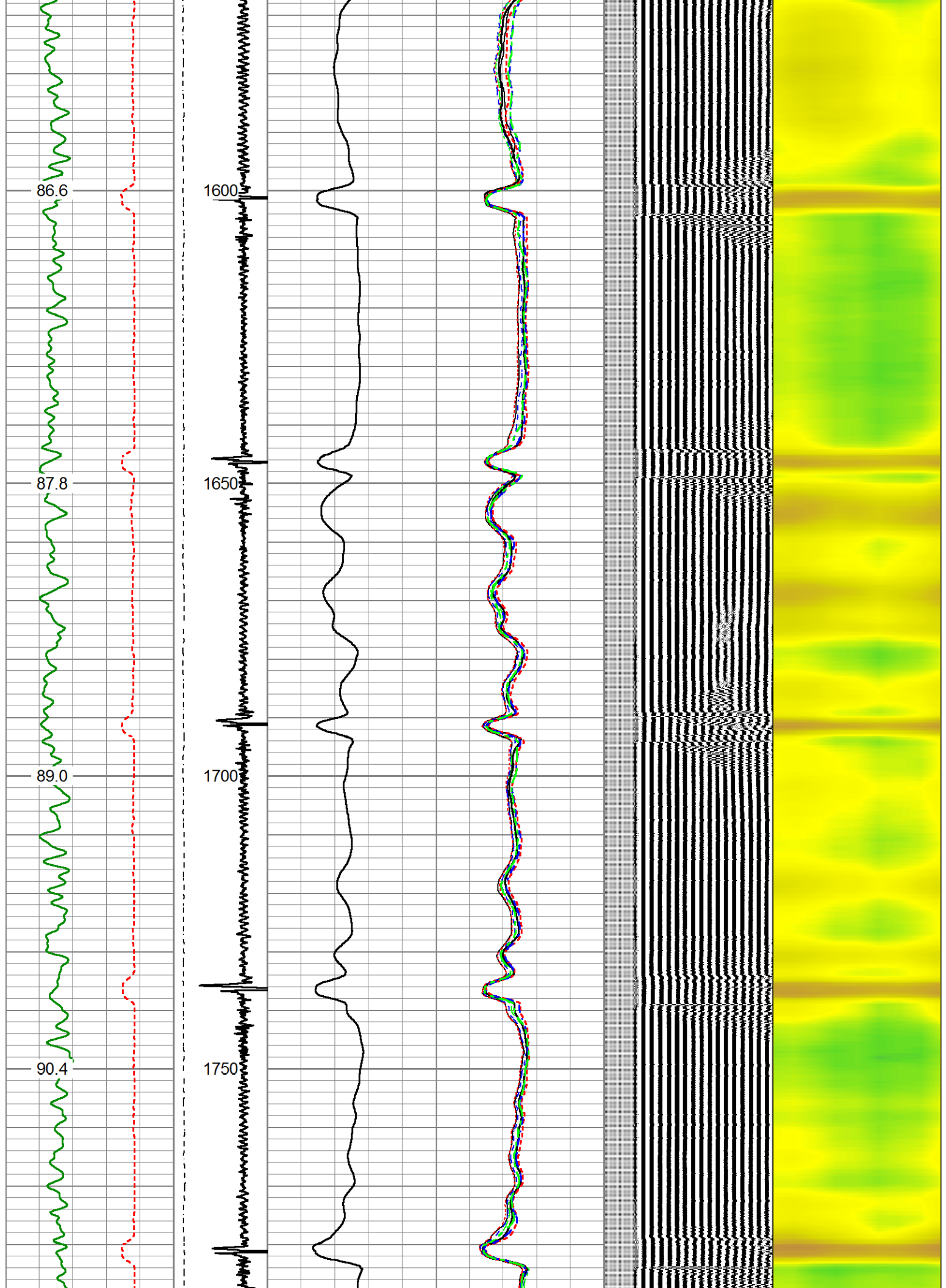


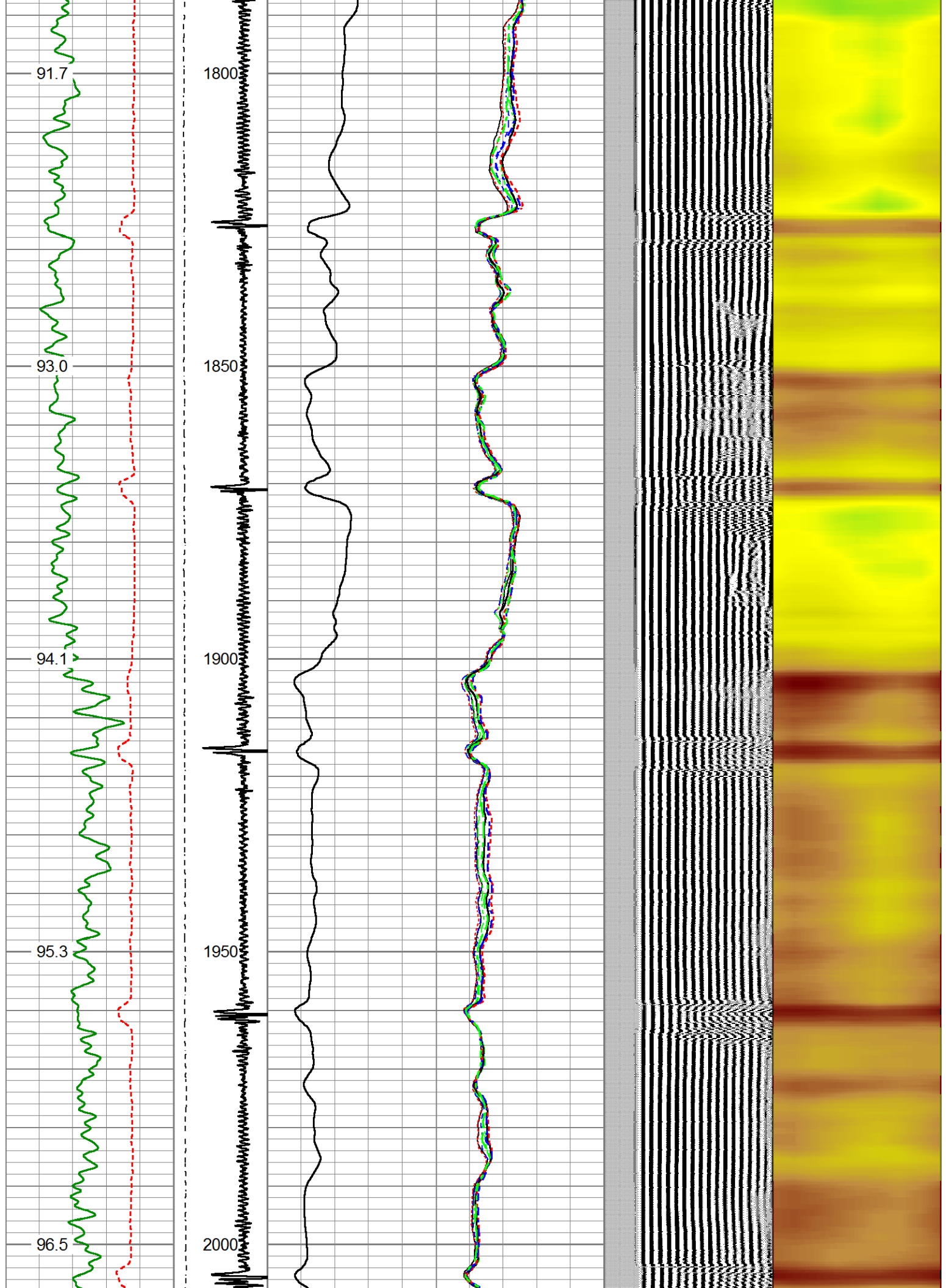




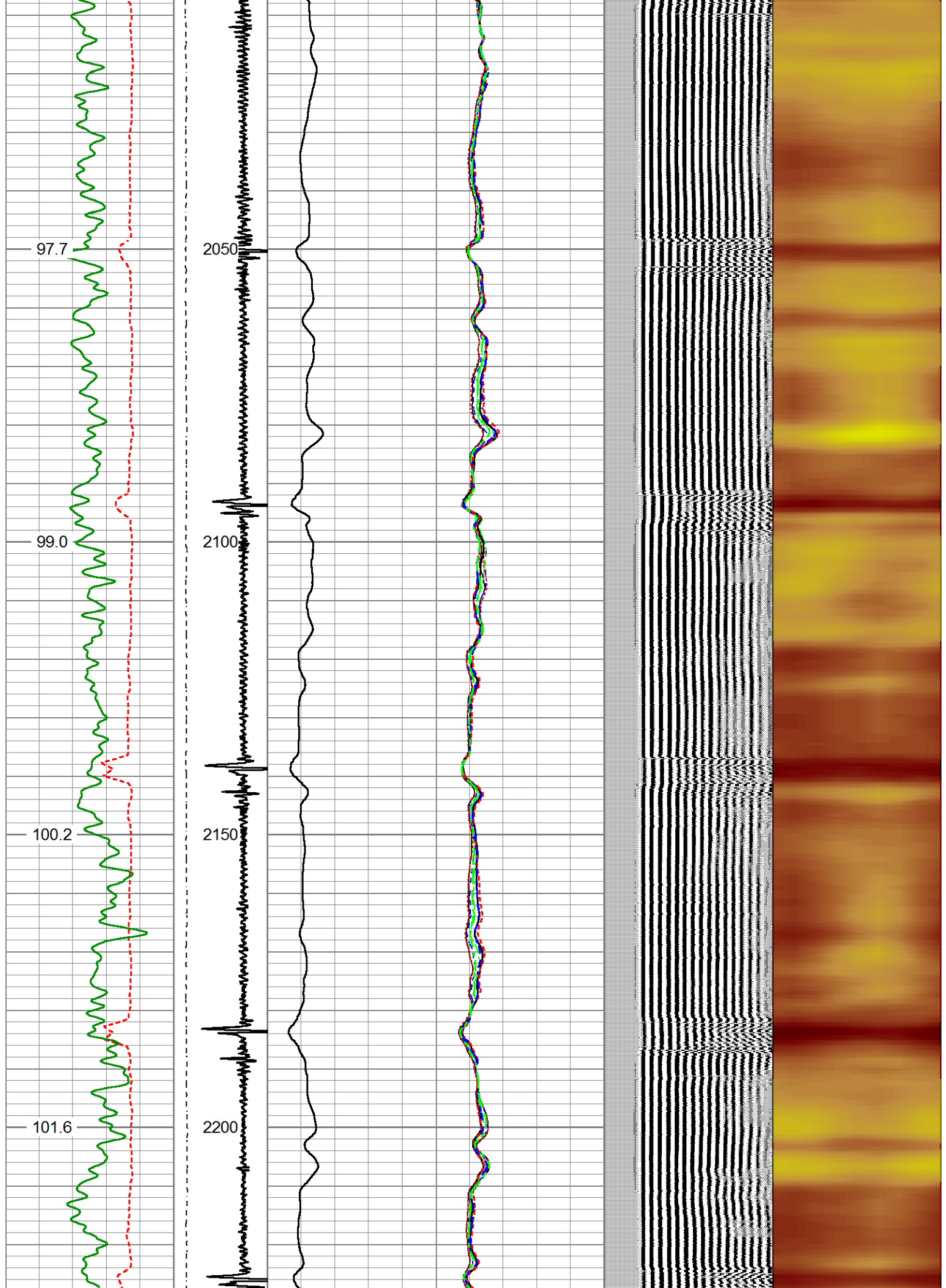


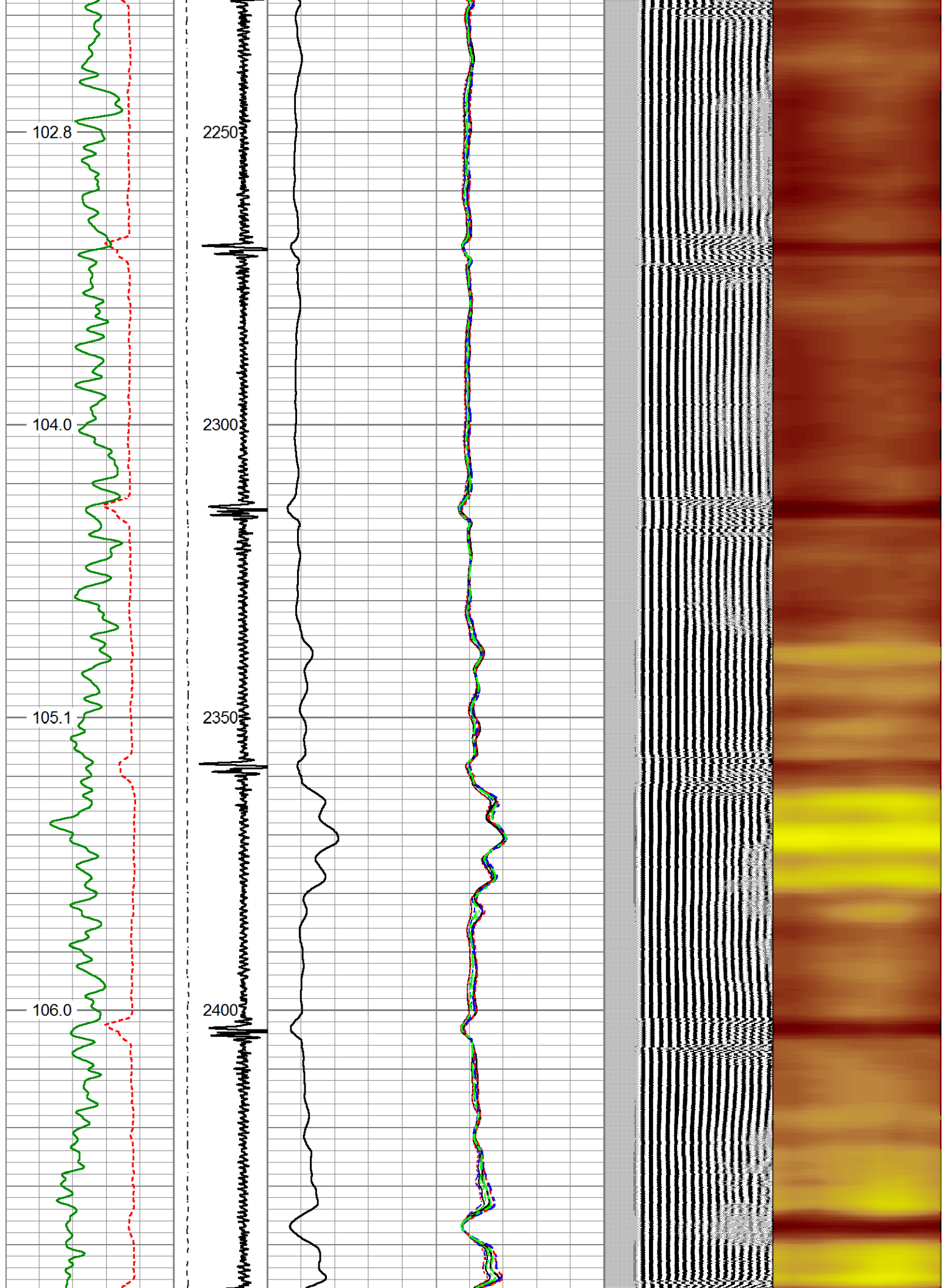


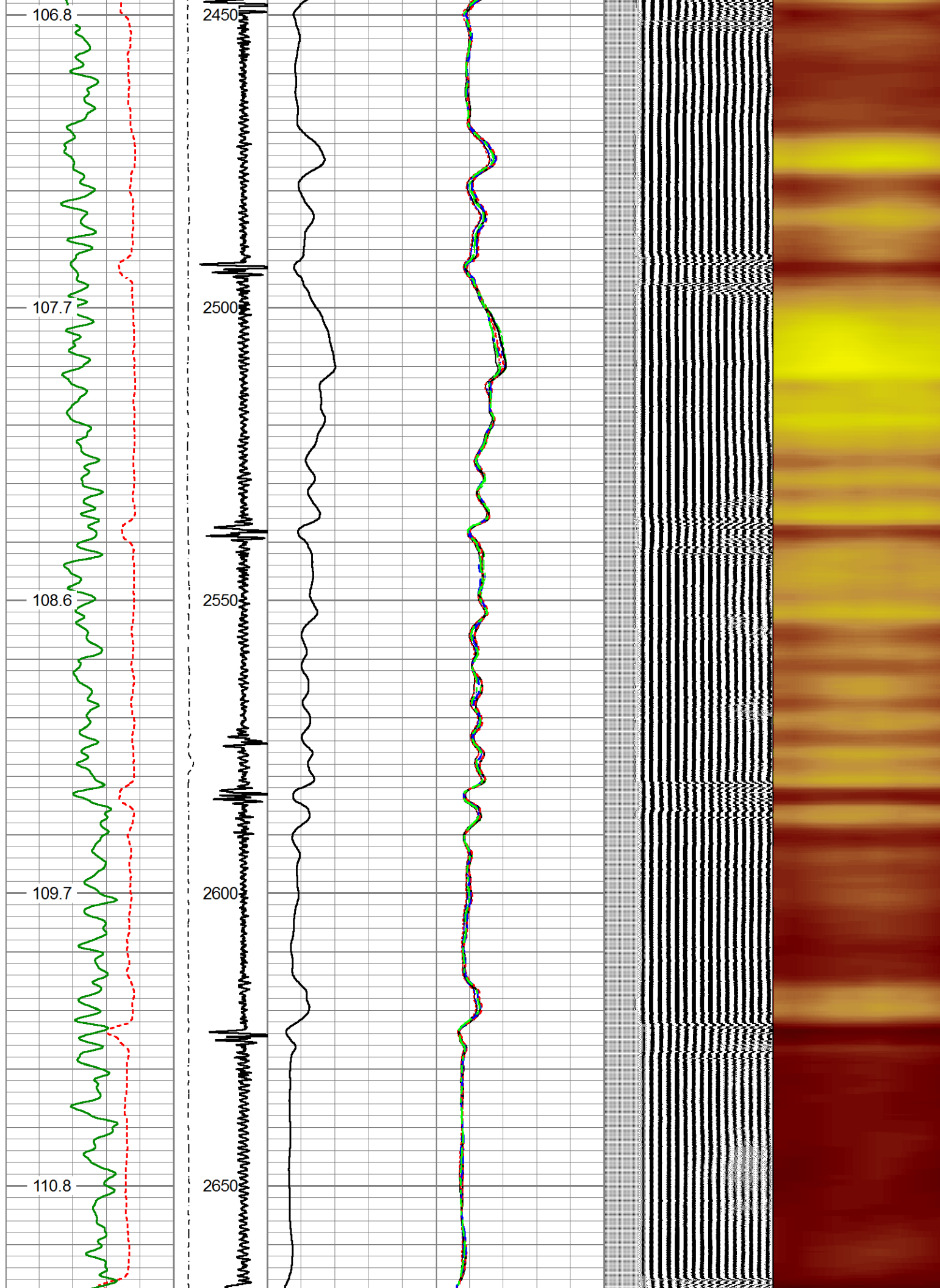




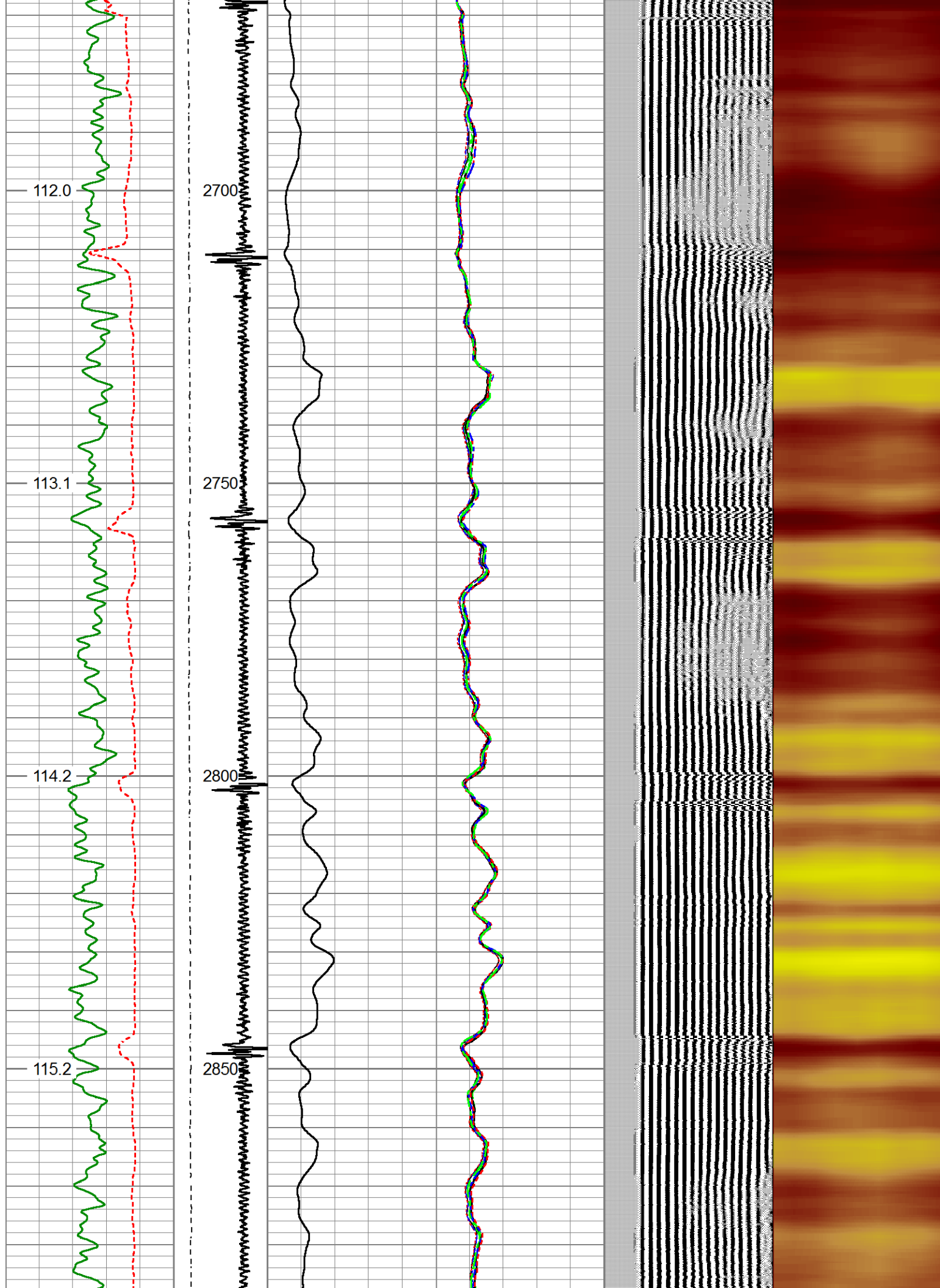


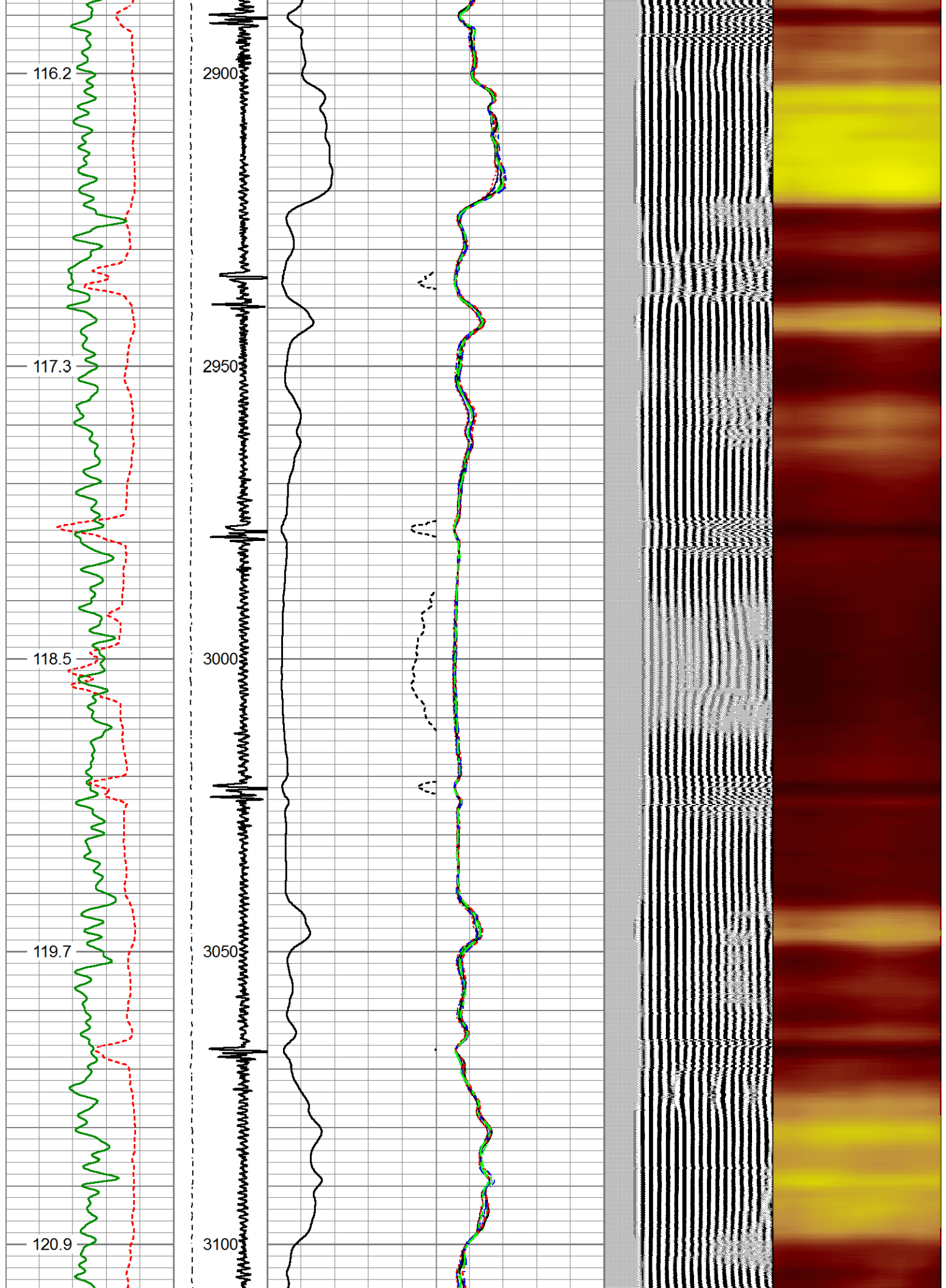


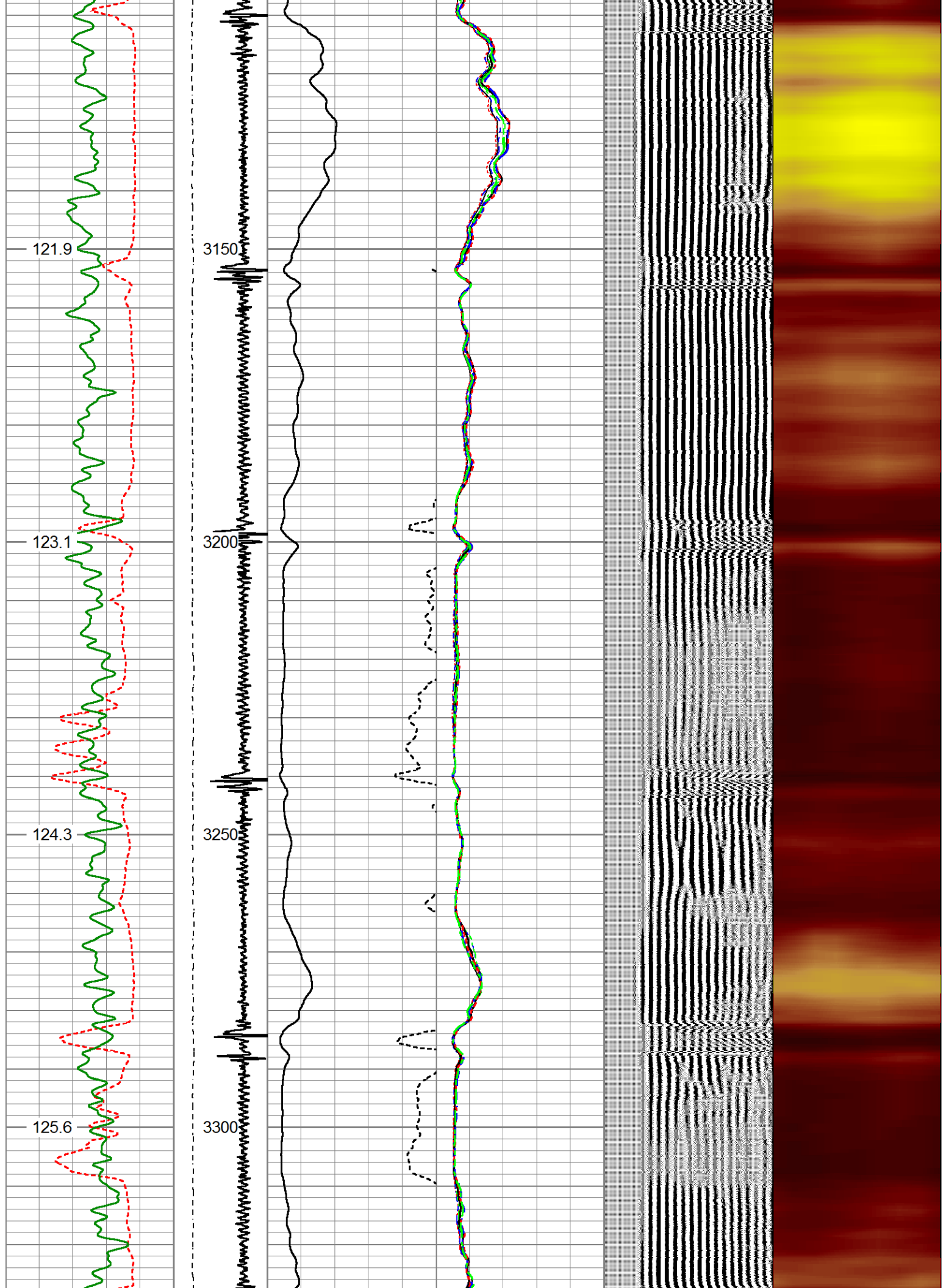




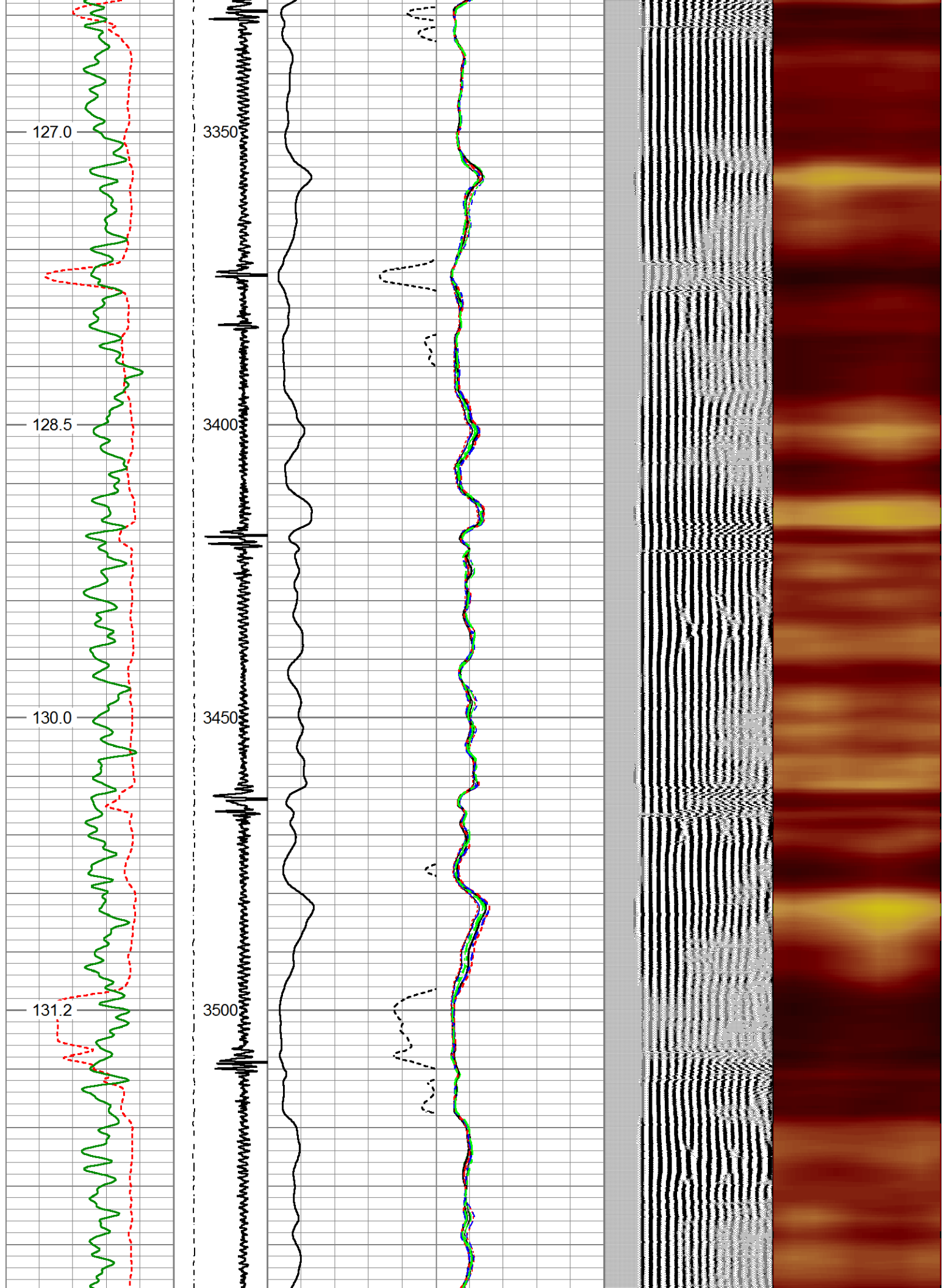


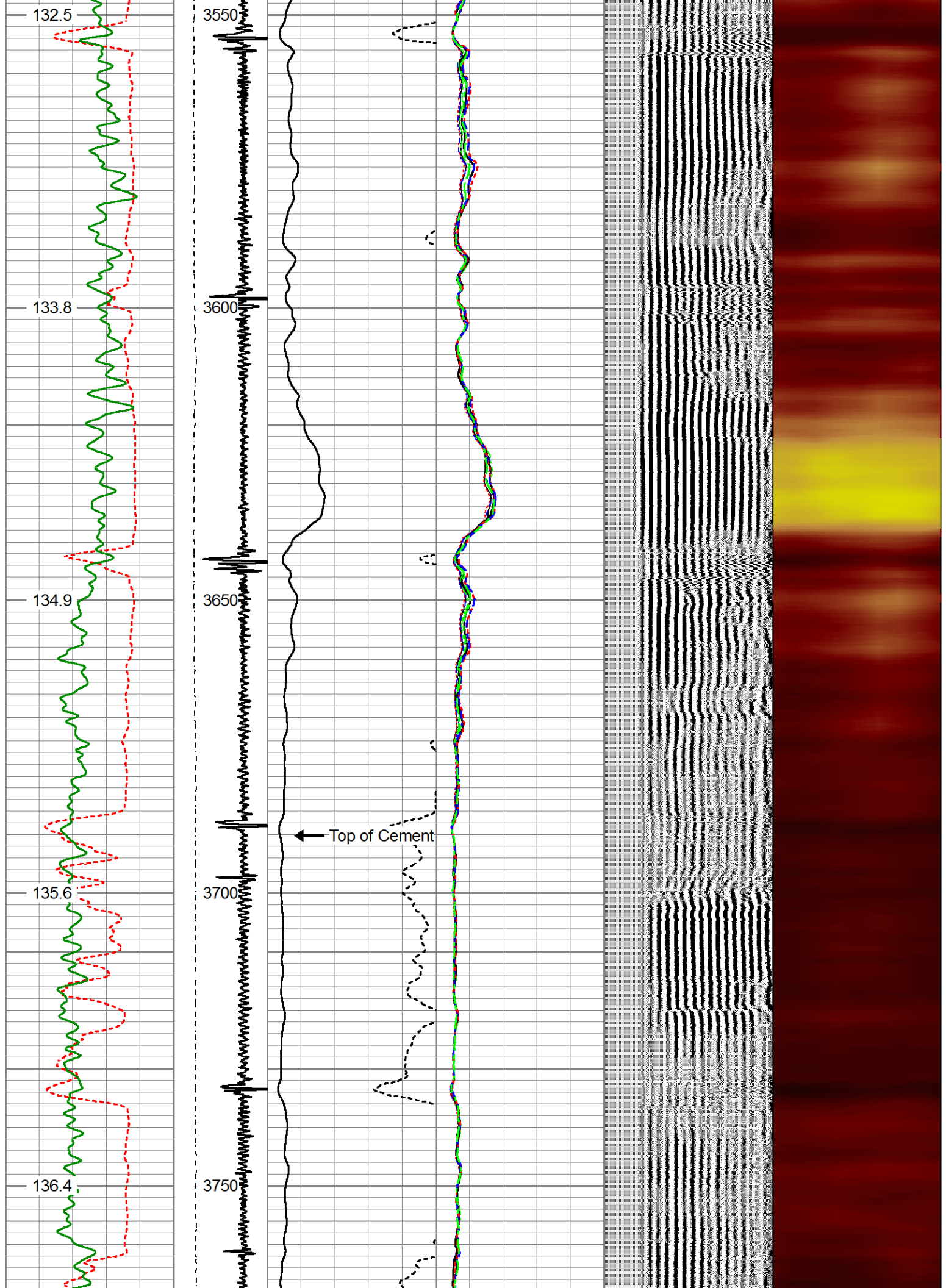




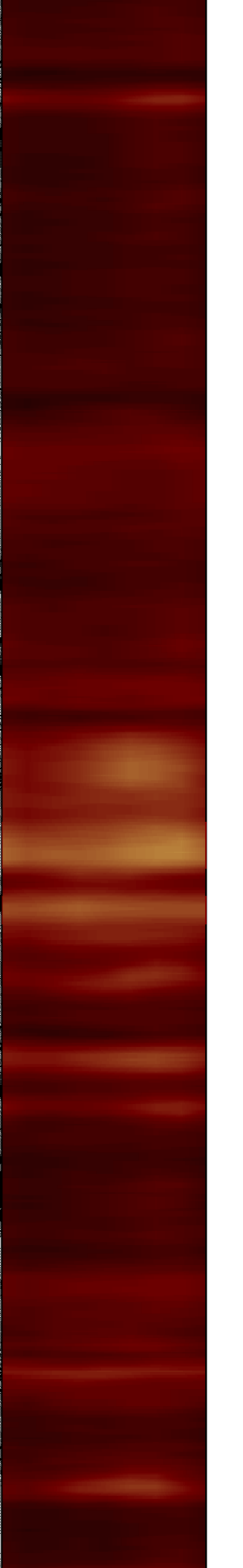
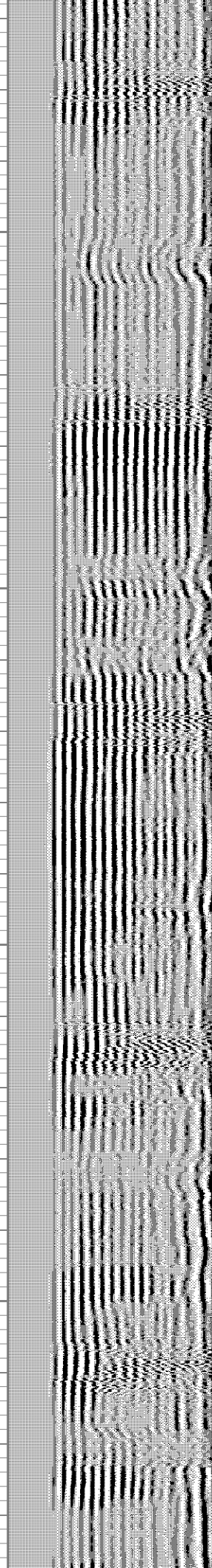
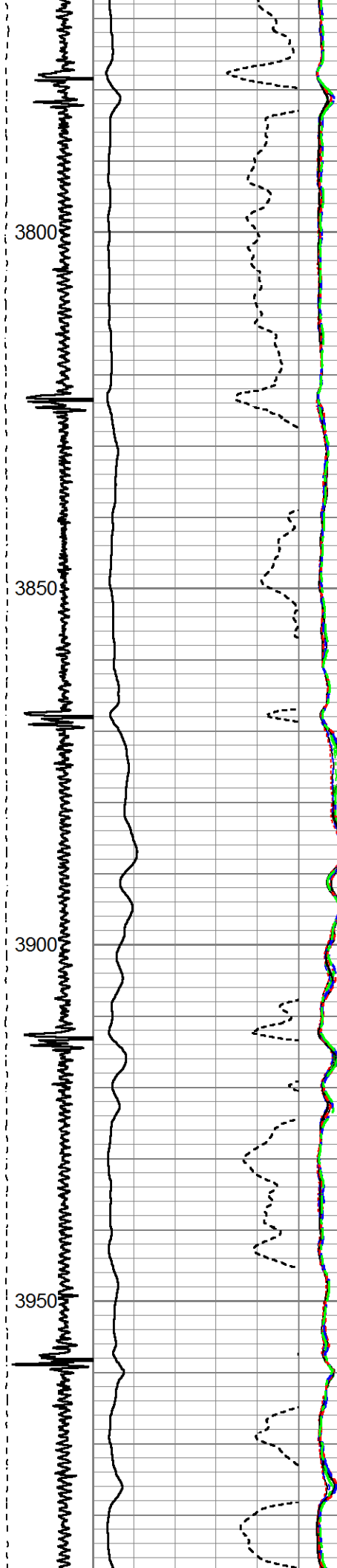
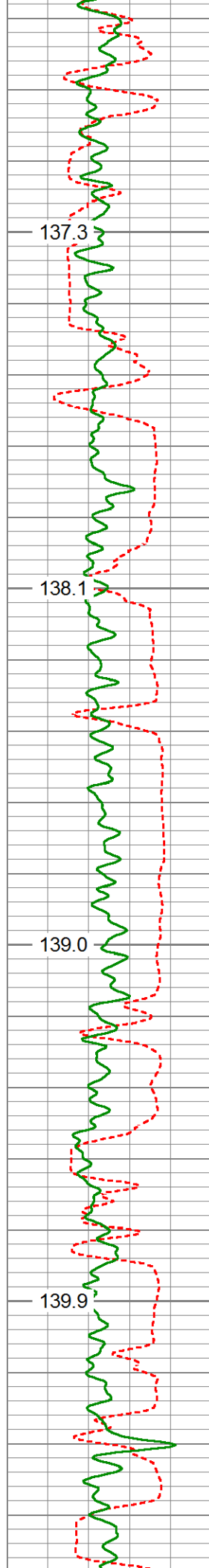




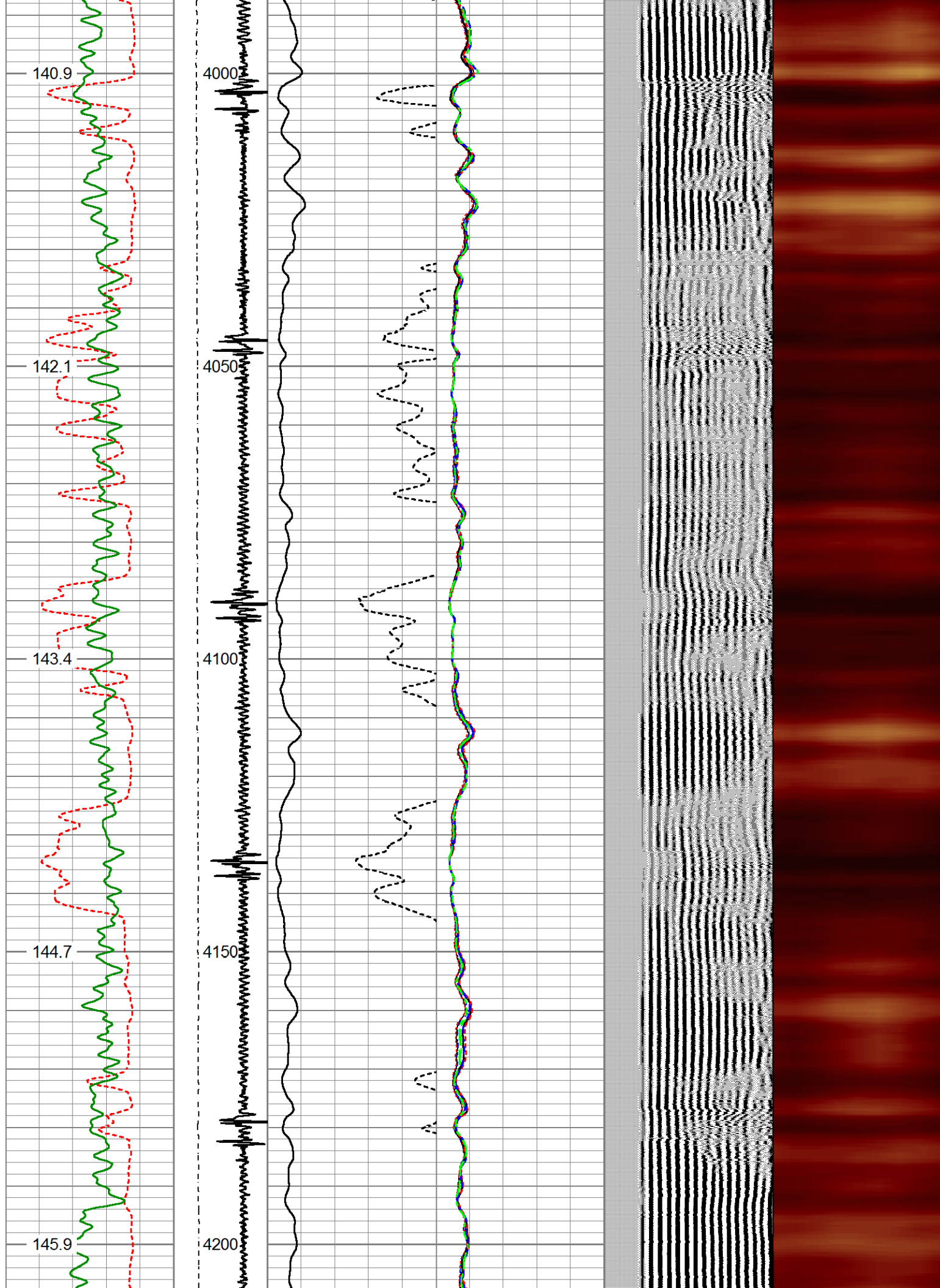


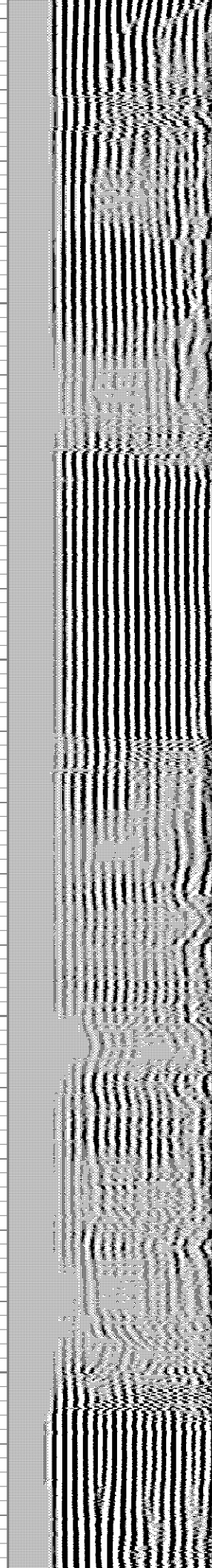
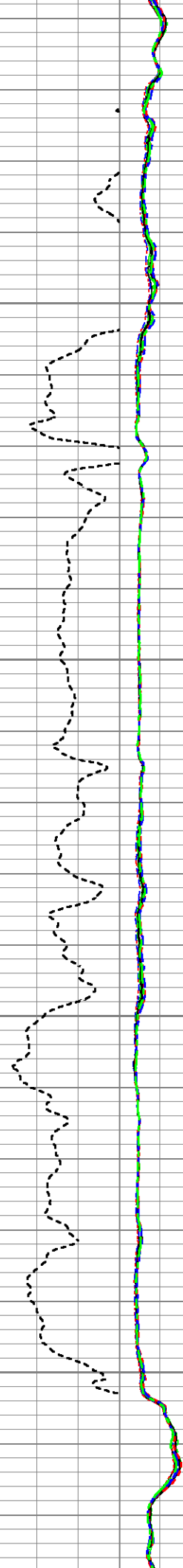
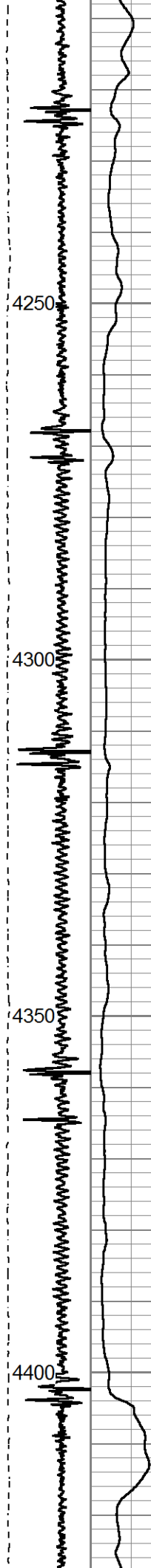
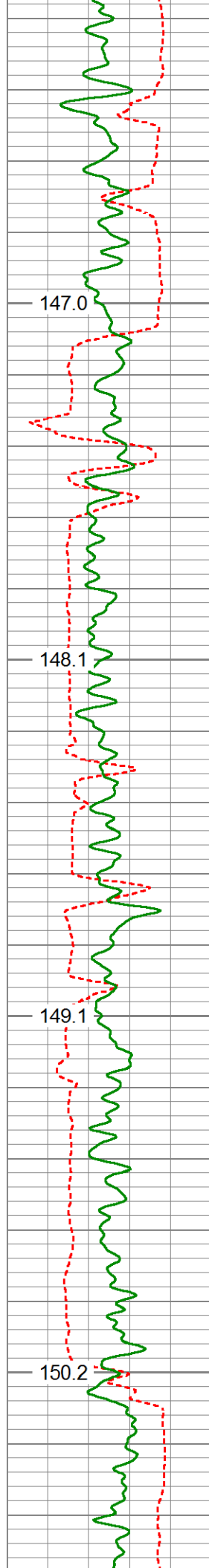


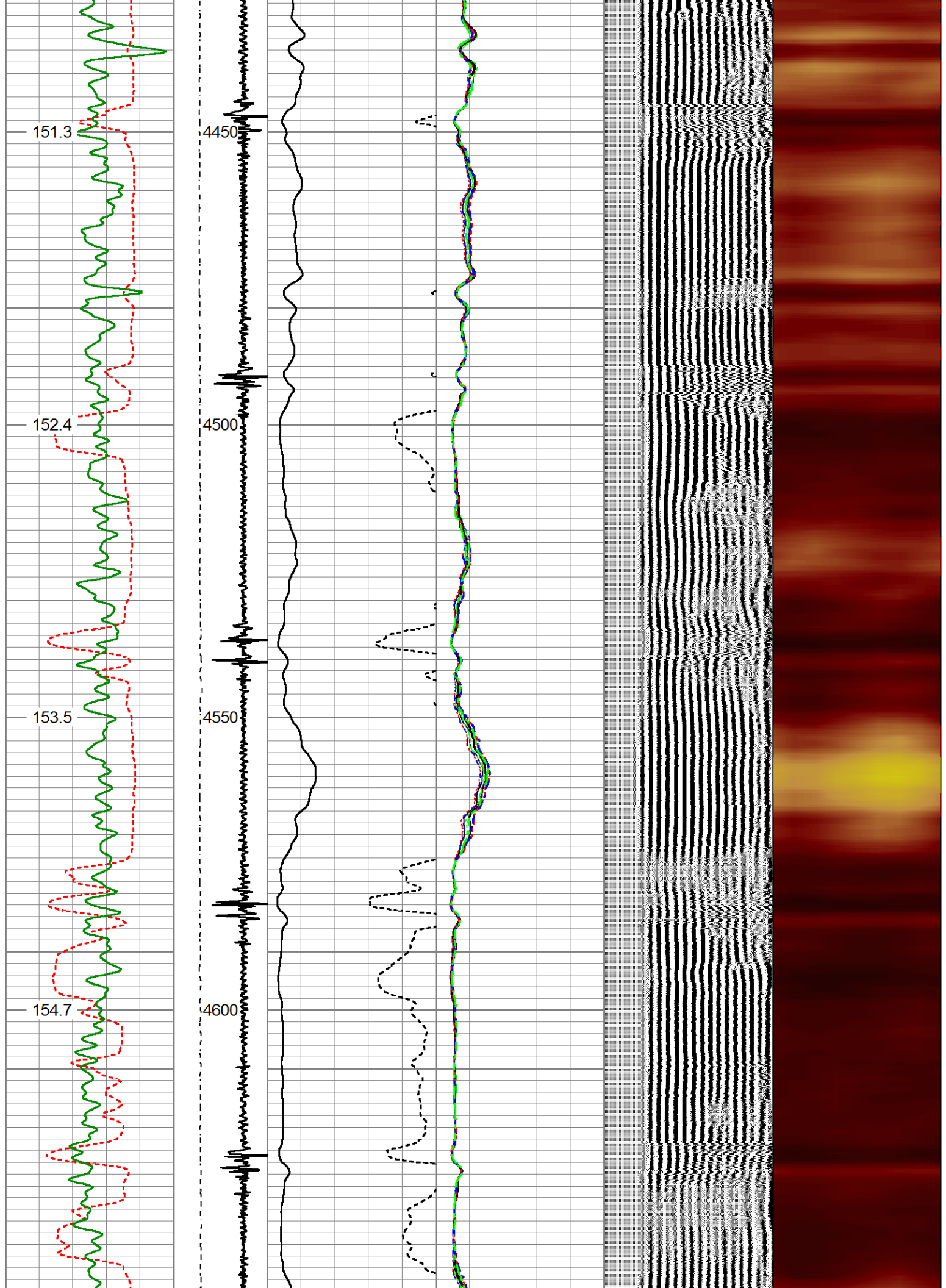




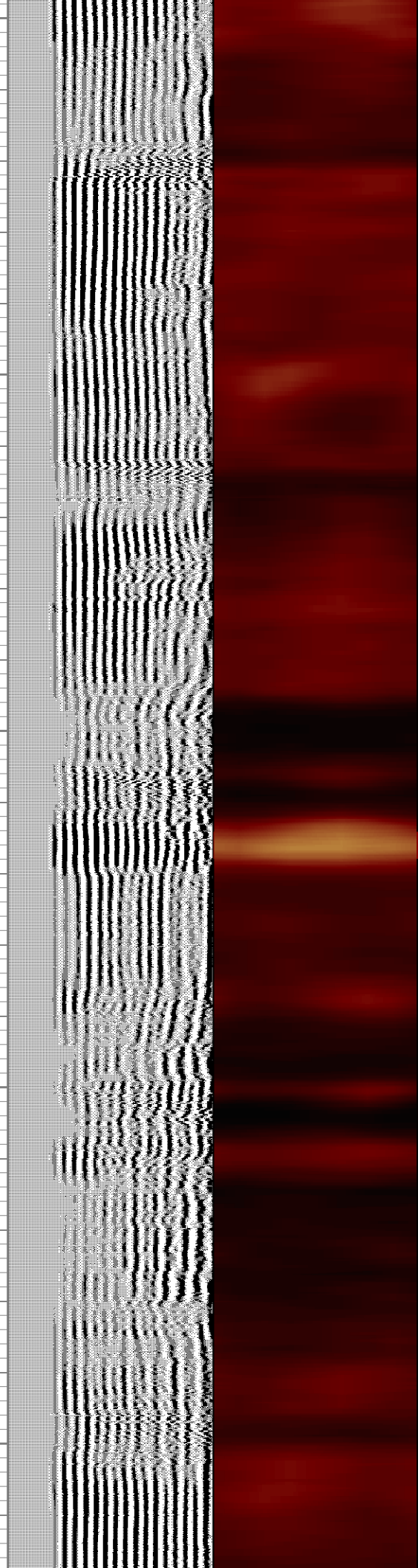
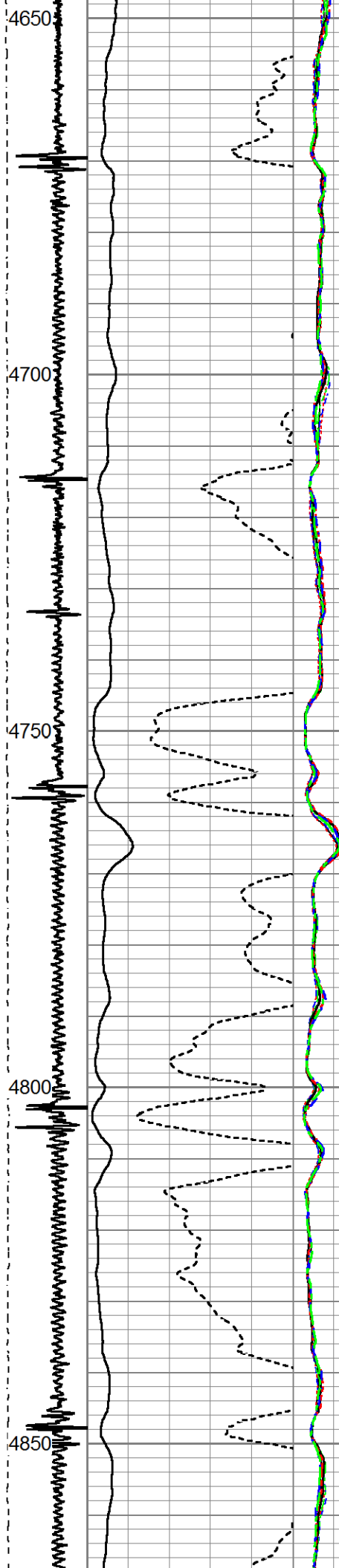
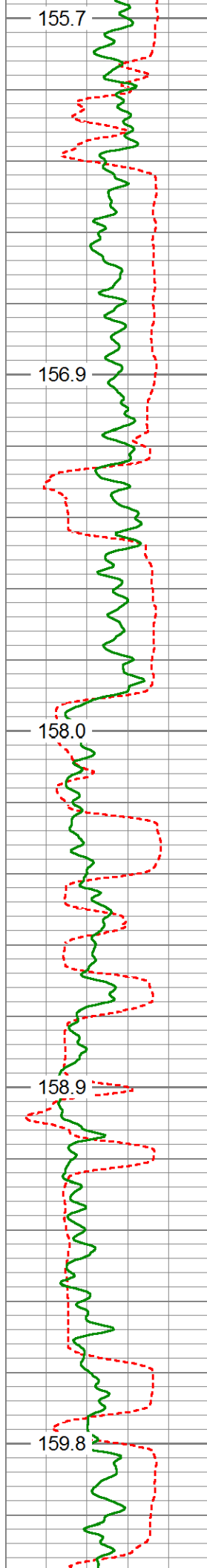


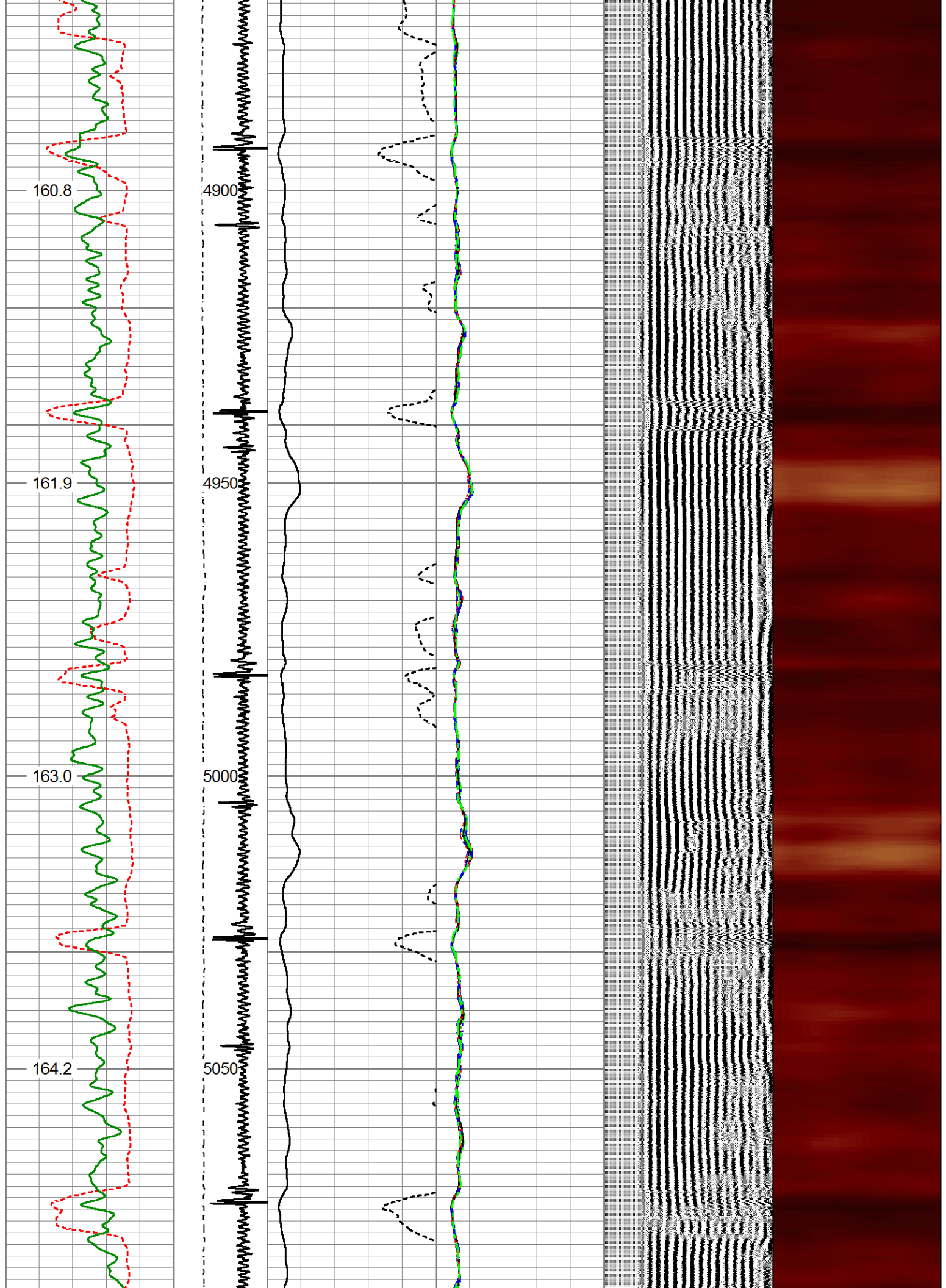


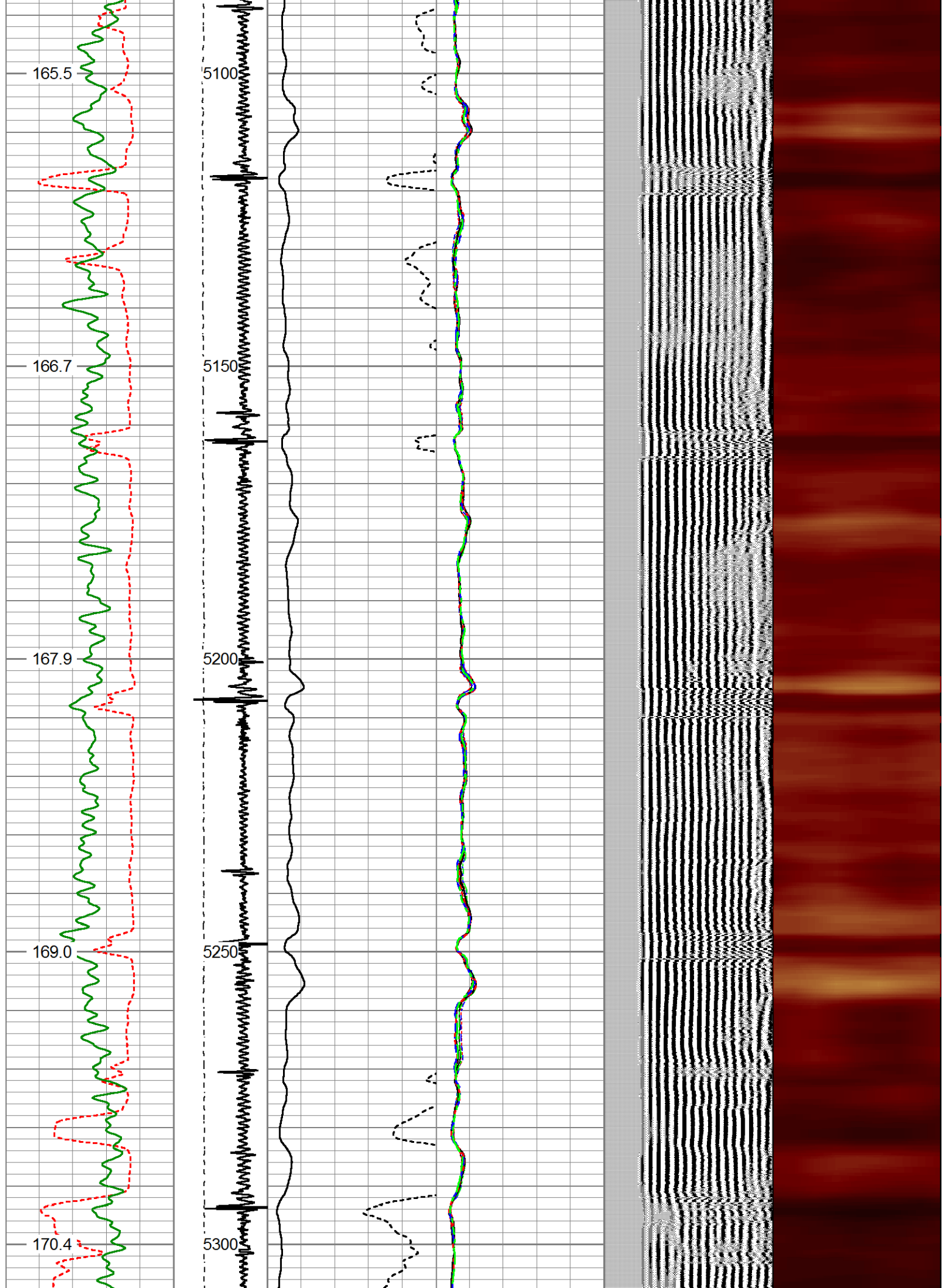




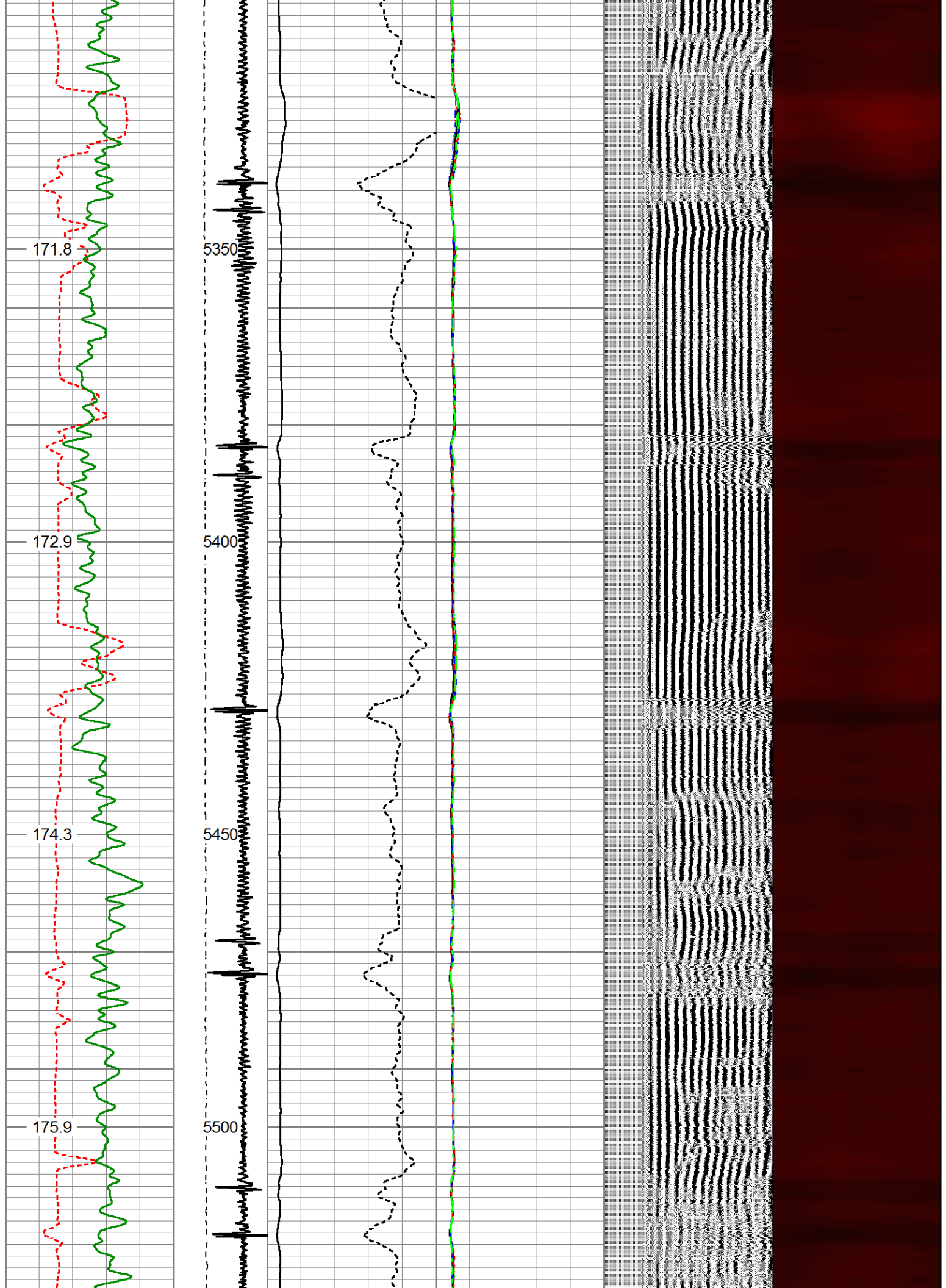


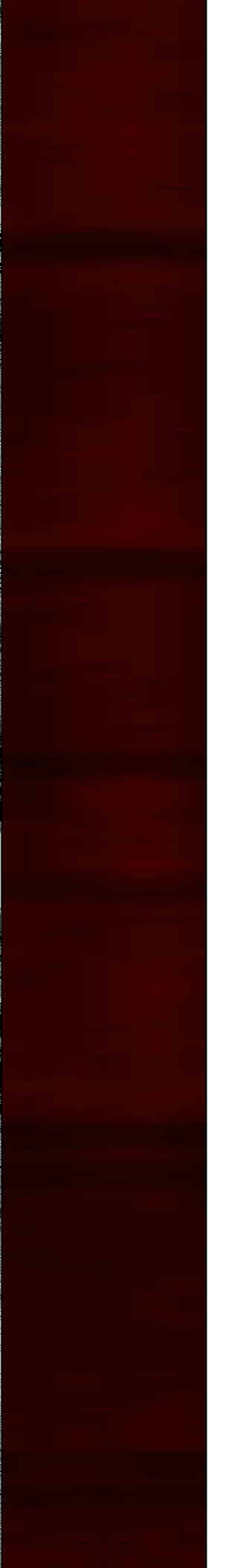
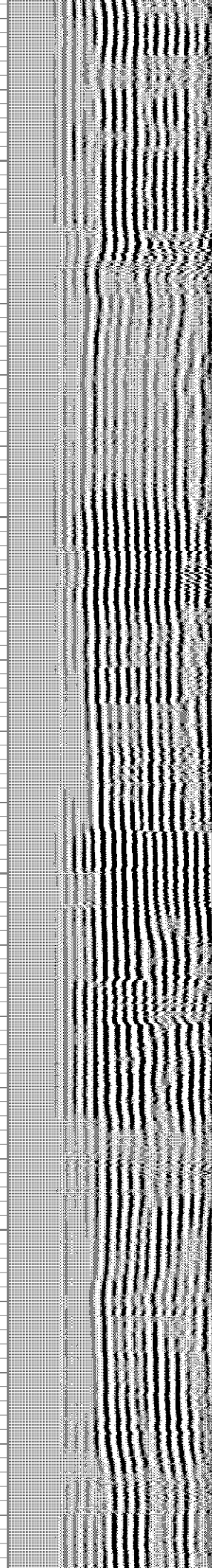
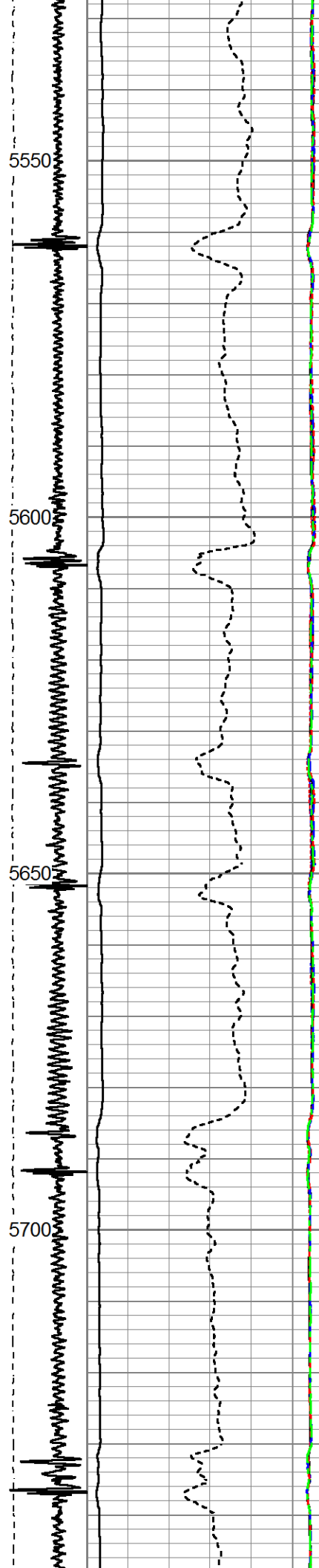
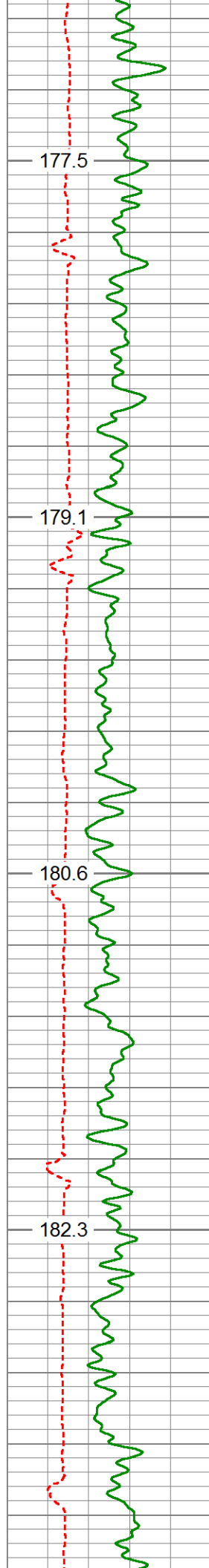


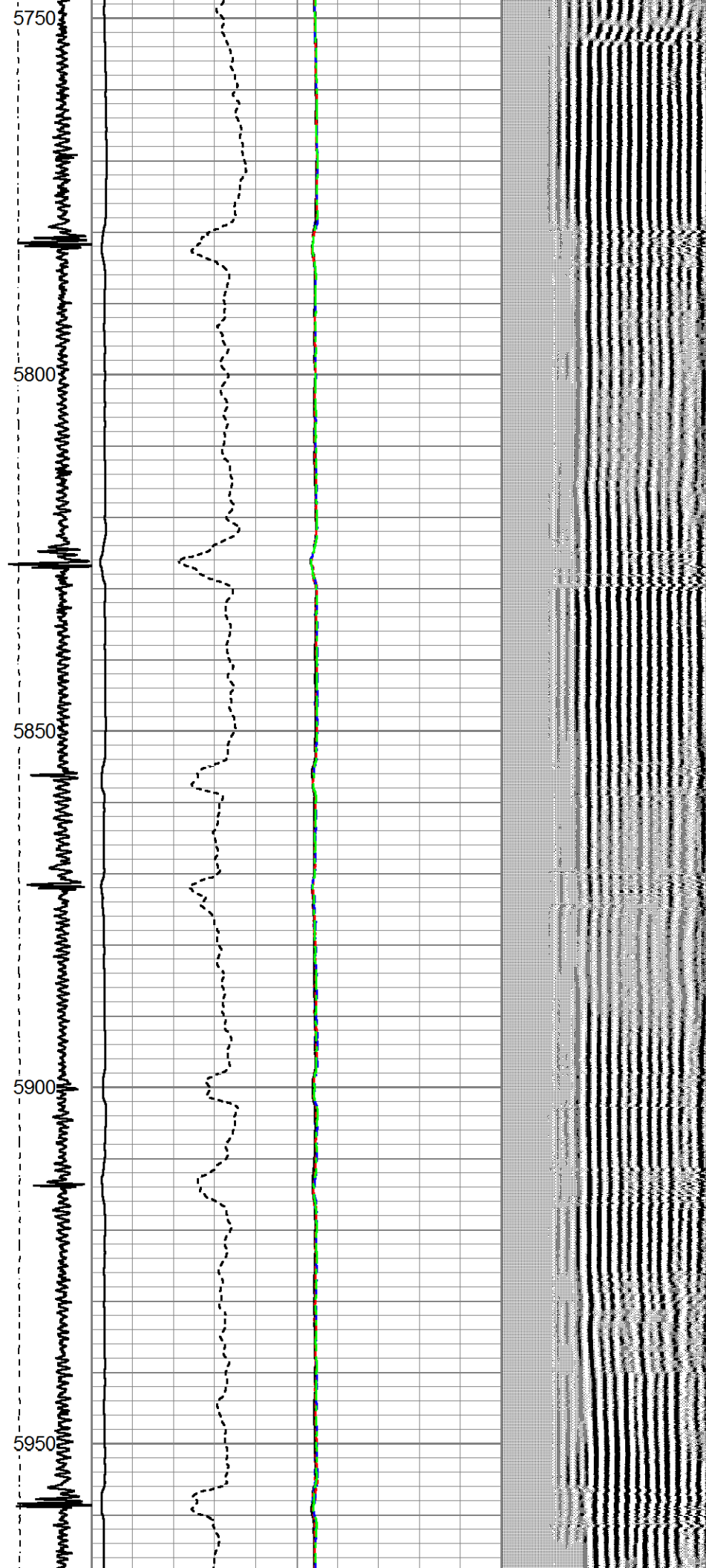
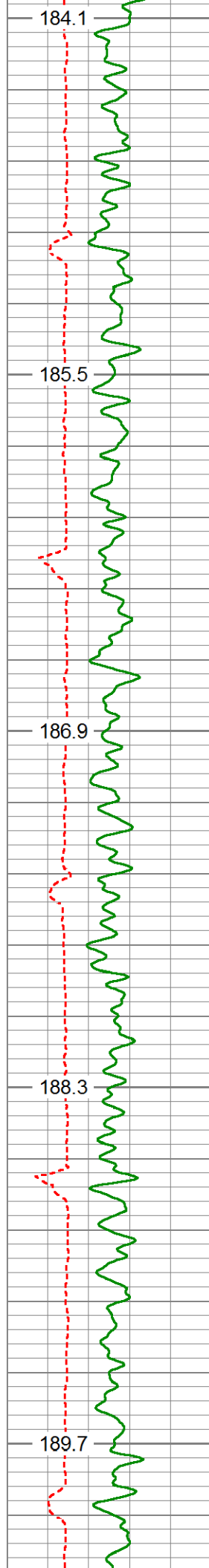




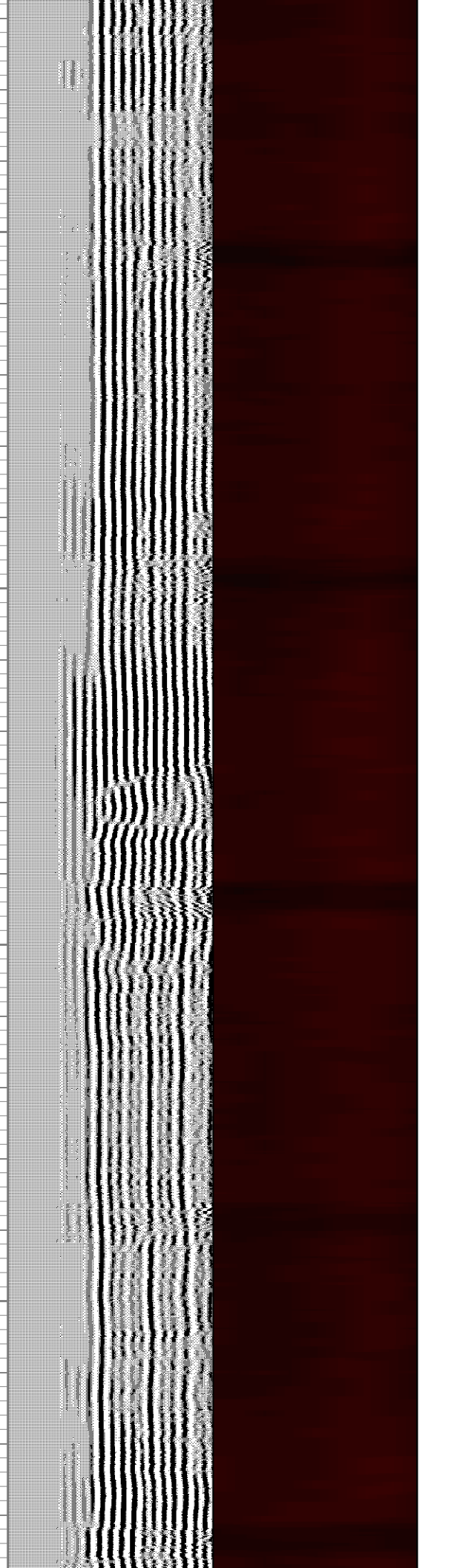
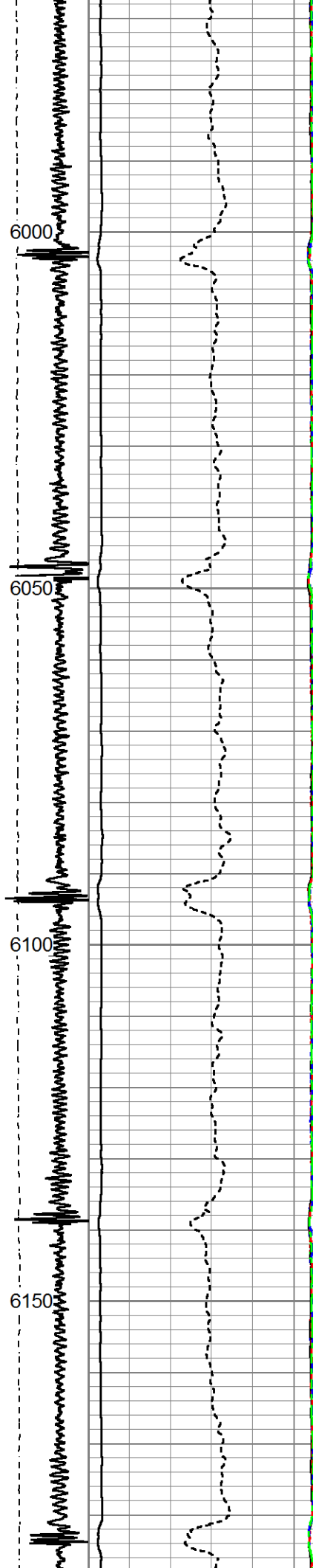
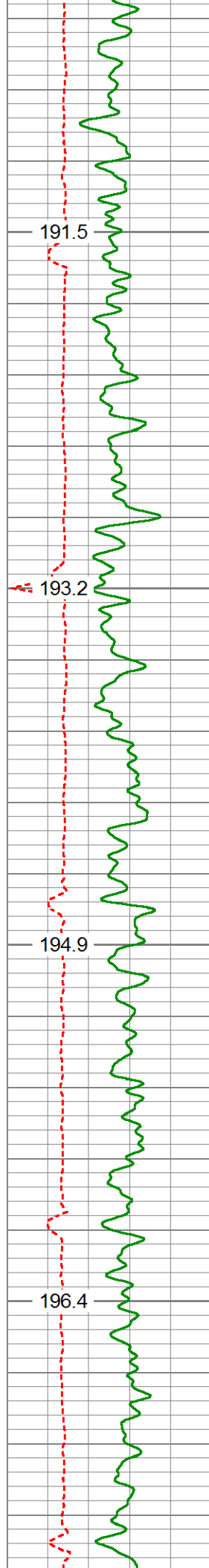


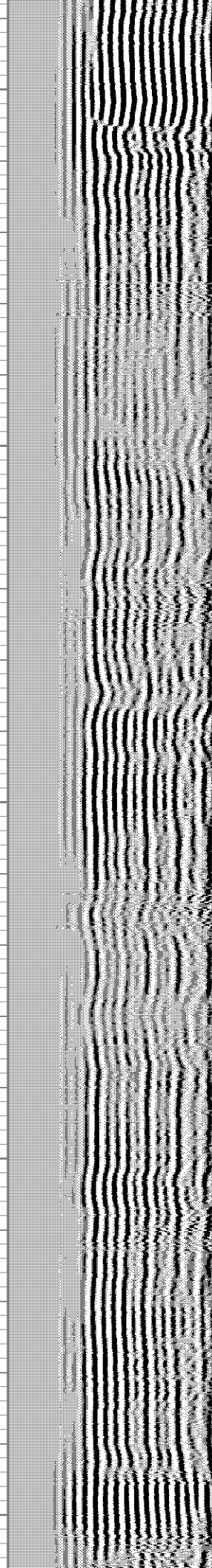
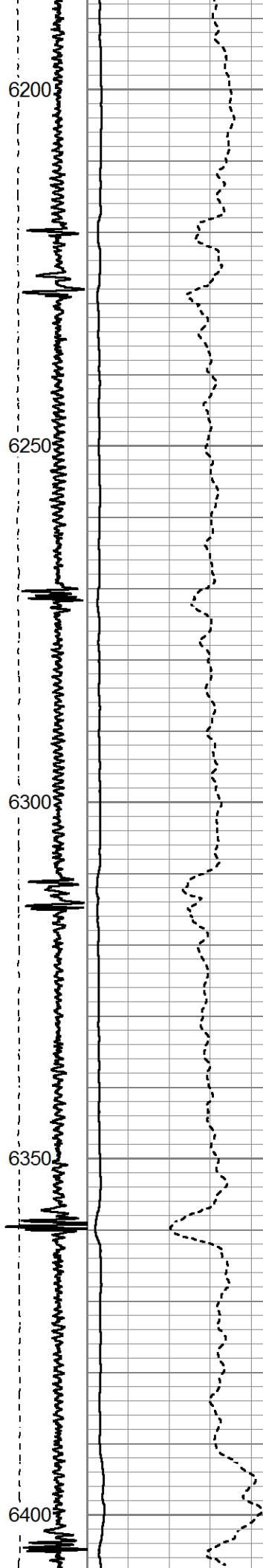
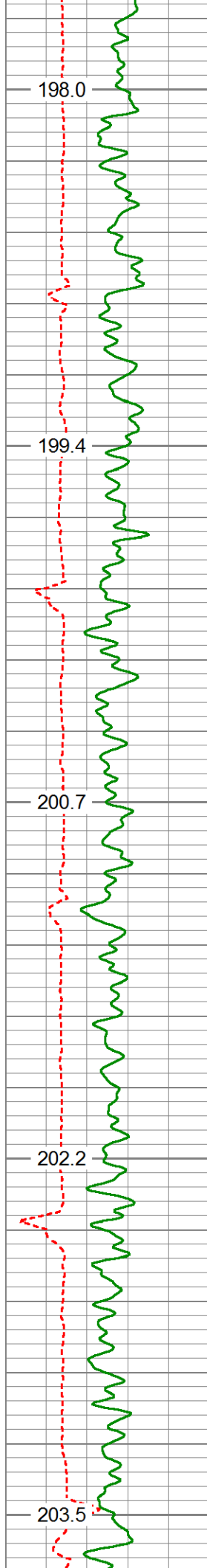




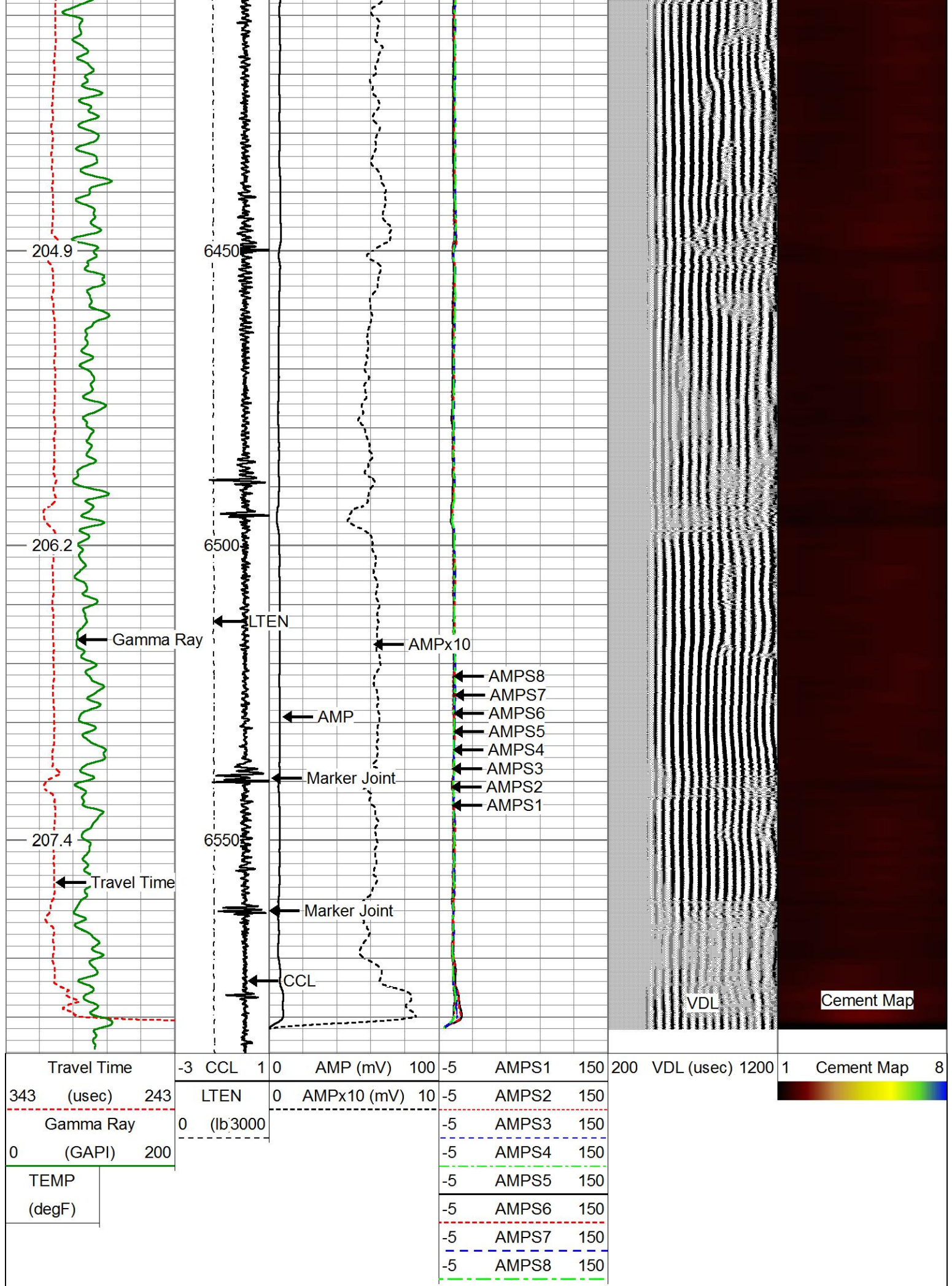















Calibration Report						
Database File	damore 18-4hz.db					
Dataset Pathname	LOG1/pass6					
Dataset Creation	Sat May 16 11:10:06 2020					
Gamma Ray Calibration Report						
Serial Number:	FW1304-53					
Tool Model:	Probe275					
Performed:	(Not Performed)					
Calibrator Value:	1.0	GAPI				
Background 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	138.640	-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		GCT-Probe275 (FW1304-53) Probe 2 3/4" Gamma Ray CCL w/Temperature	4.77	2.75	40.00
CCL	3.92					
TEMP	3.17					
GR	2.42					
Dataset:			damore 18-4hz.db: field/well/LOG1/pass6			
Total length:			15.39 ft			
Total weight:			131.00 lb			
O.D.:			2.75 in			

	<b>Company</b>	OCCIDENTAL PETROLEUM CORP.
	<b>Well</b>	DAMORE 18-4HZ
	<b>Field</b>	WATTENBERG
	<b>County</b>	WELD
	<b>State</b>	COLORADO