



**RADIAL CEMENT BOND
GAMMA RAY
CCL
TEMP**

**Company OCCIDENTAL PETROLEUM CORP.
Well DAMORE 18-2HZ
Field WATTENBERG
County WELD State COLORADO**

Location:

API # : 05-123-50774

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 15 MAY 2020

Run Number	ONE		
Depth Driller	17737'		
Depth Logger	6615'		
Bottom Logged Interval	6615'		
Top Log Interval	SURFACE		
Open Hole Size	8.50"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	208 DEG F		
Estimated Cement Top	3627'		
Time Well Ready	ROA		
Time Logger on Bottom	13.45		
Equipment Number	W-205		
Location	WINDSOR, CO		
Recorded By	Z. EMICKI		
Witnessed By	R. PEVLER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.50"	0'	1894'				
TWO	8.50"	1894'	17737'				
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	9-5/8"		36# J-55		0'		1884'
Prot. String							
Production String	5-1/2"		17# HCP110		0'		17723'
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 6574' - 6596'

LOG RAN WITH 0 PSI ON CASING.

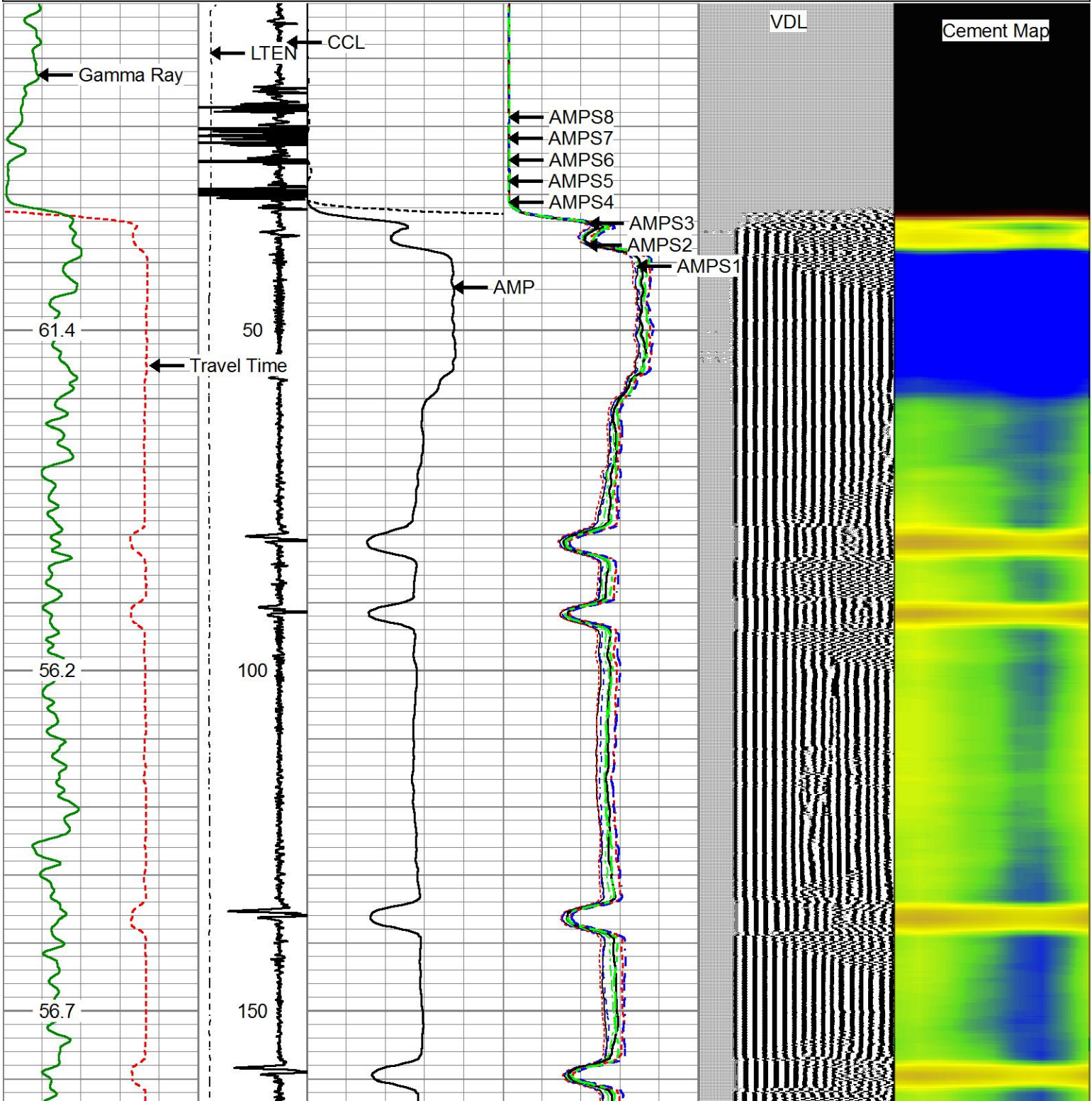
THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE.

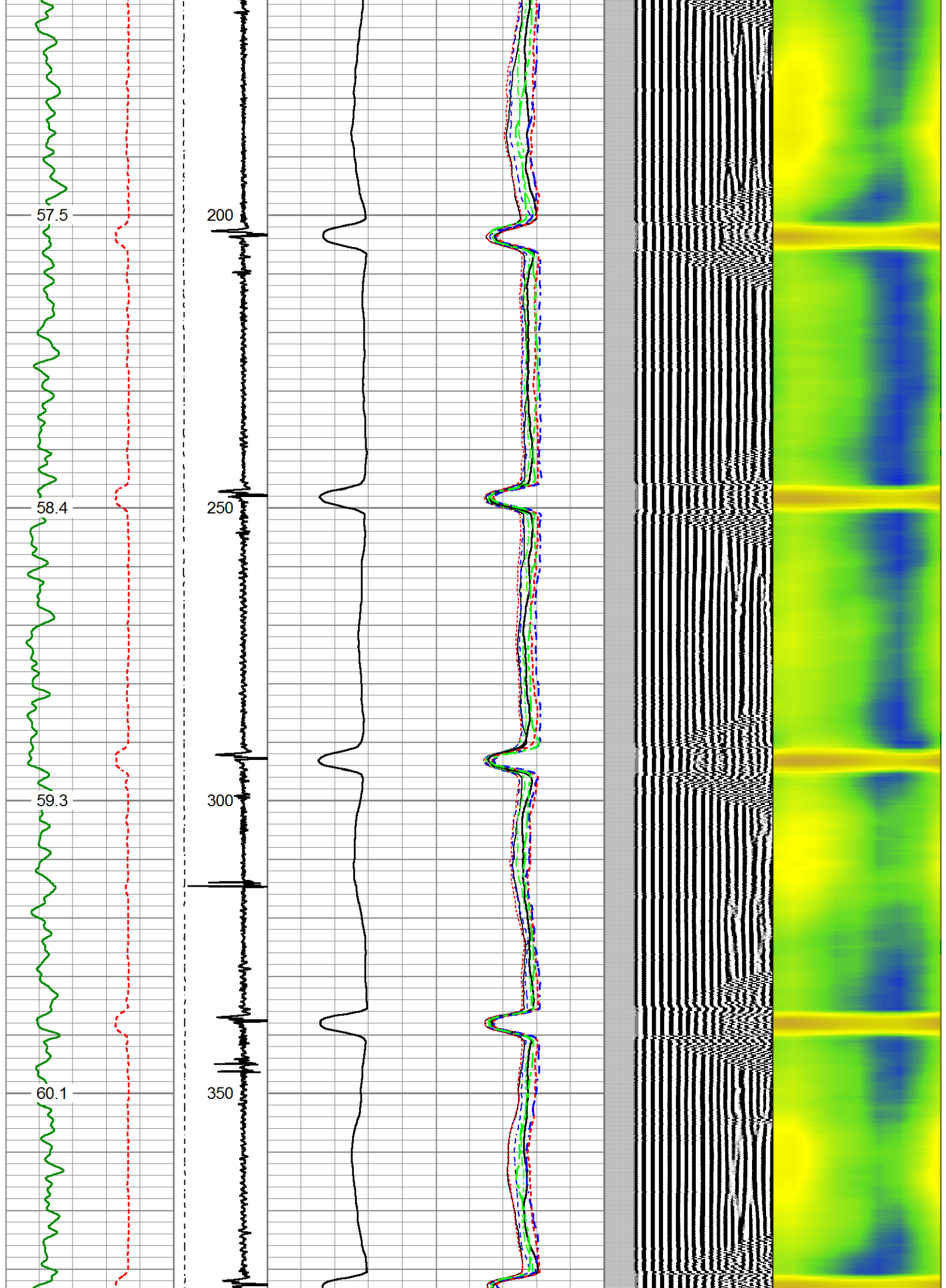


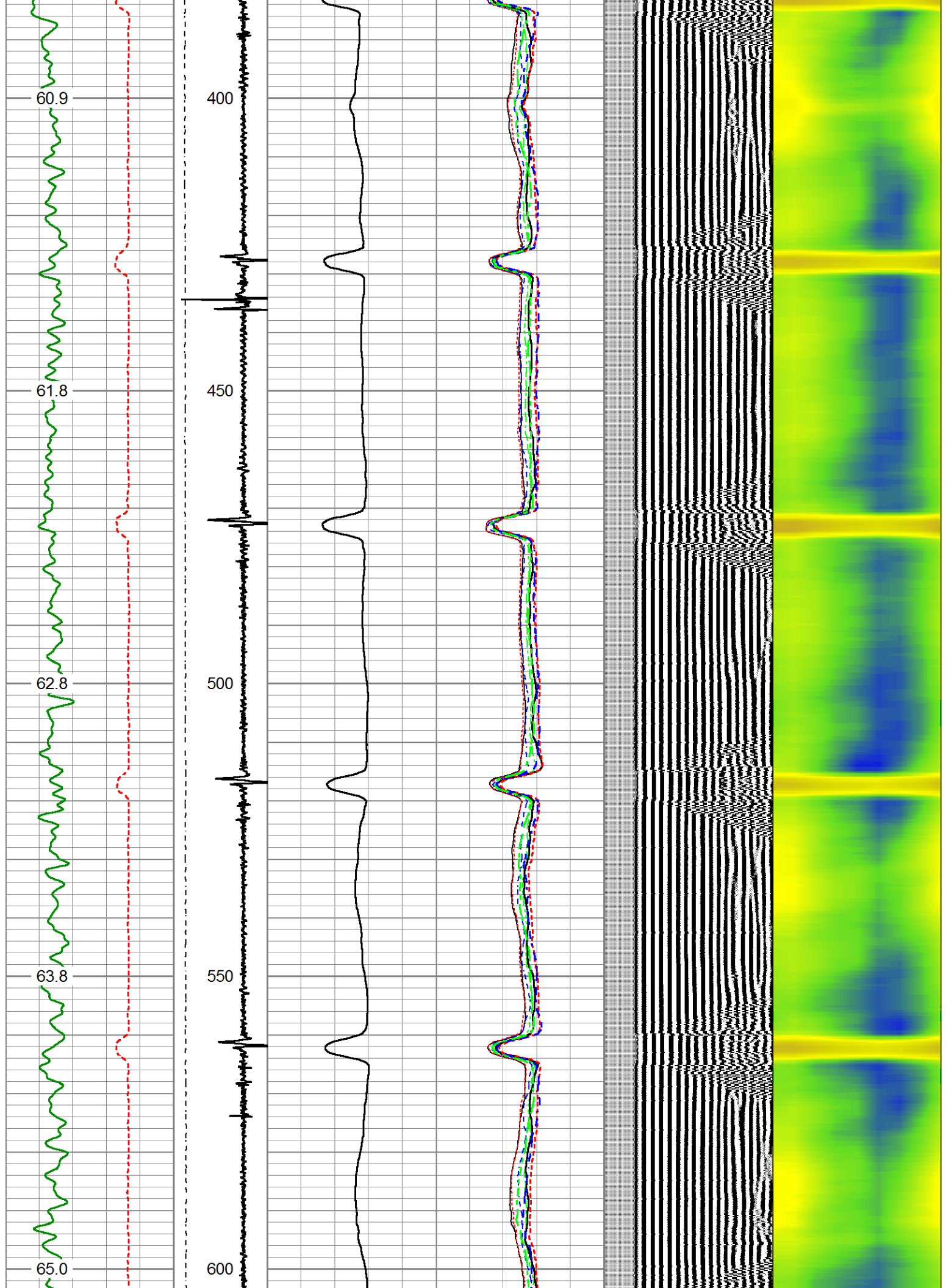
MAIN PASS, 0 PSI

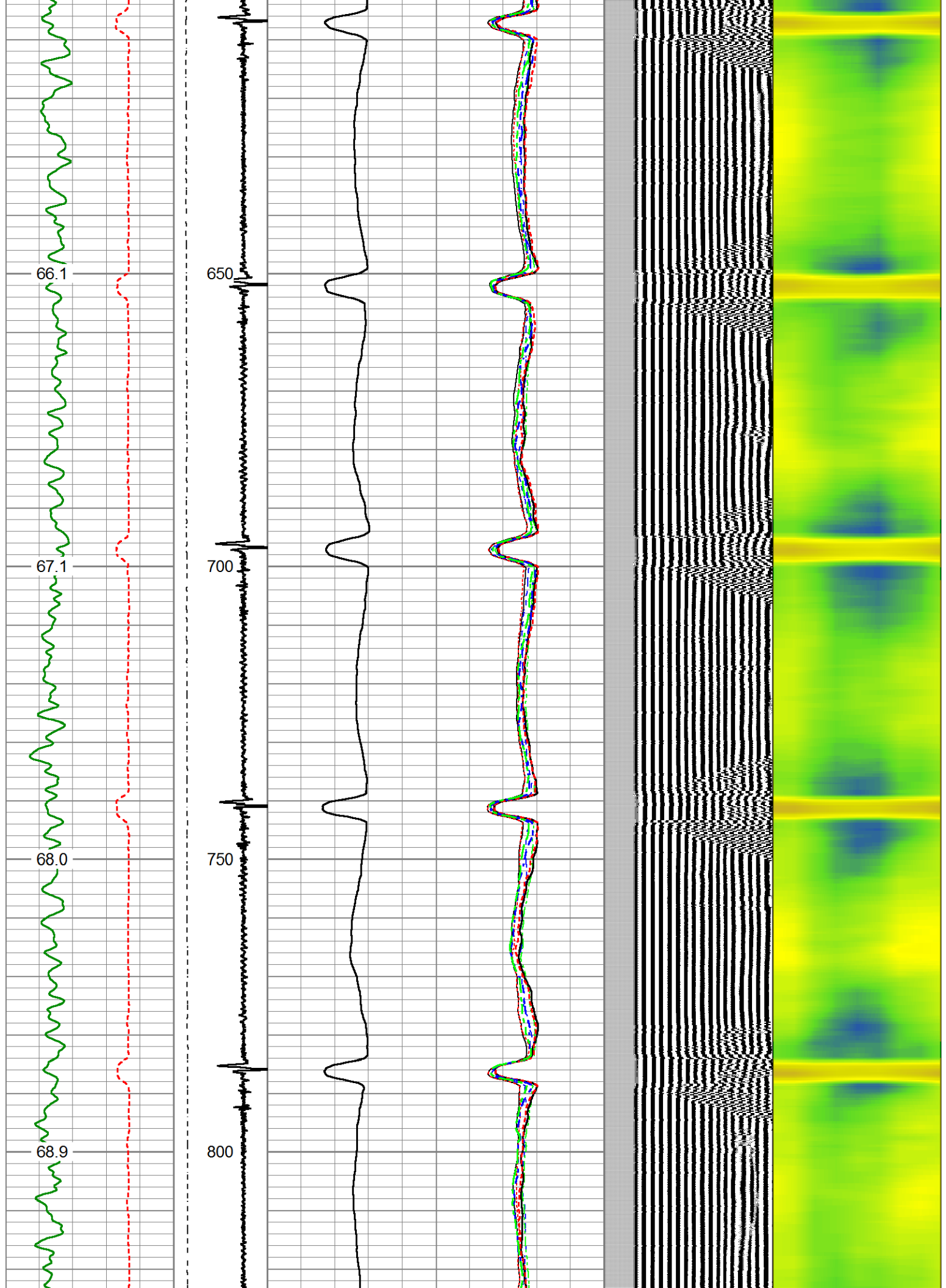
5" = 100'

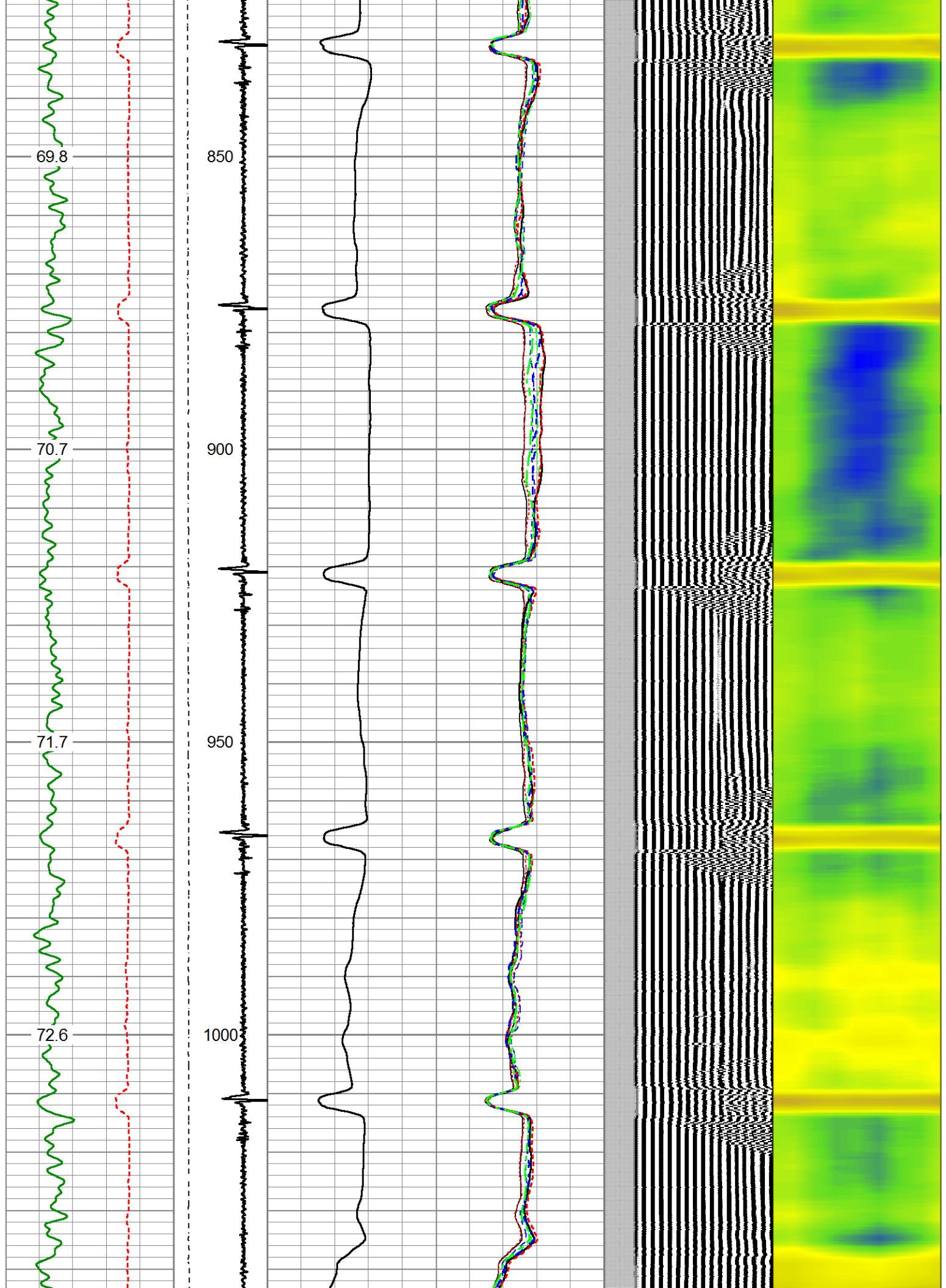
Travel Time	-3	CCL	1	0	AMP (mV)	100	-5	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
343 (usec)	243	LTEN	0	AMPx10 (mV)	10	-5	AMPS2	150							
Gamma Ray	0	(lb/3000)				-5	AMPS3	150							
0 (GAPI)	200					-5	AMPS4	150							
TEMP						-5	AMPS5	150							
(degF)						-5	AMPS6	150							
						-5	AMPS7	150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

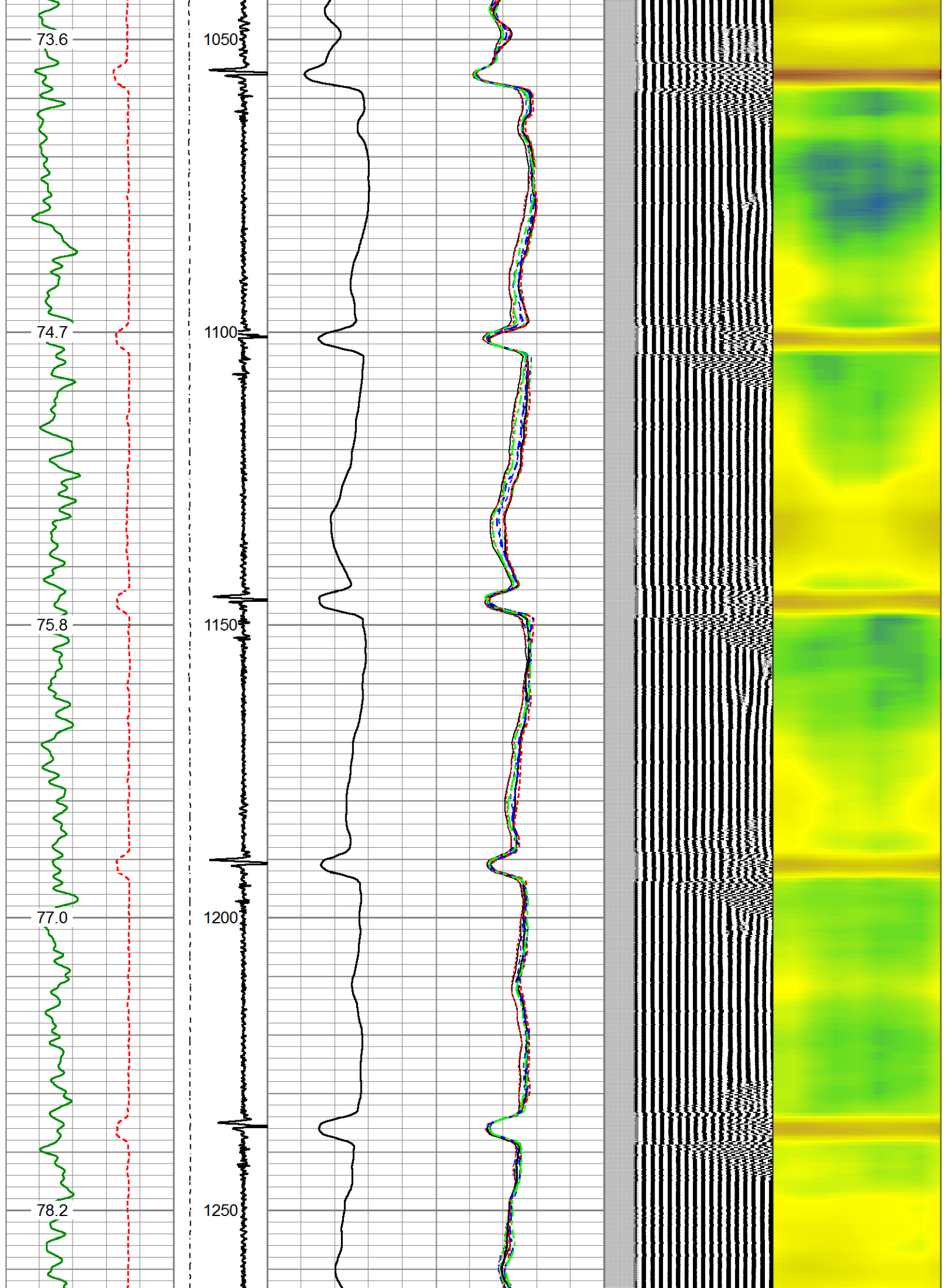


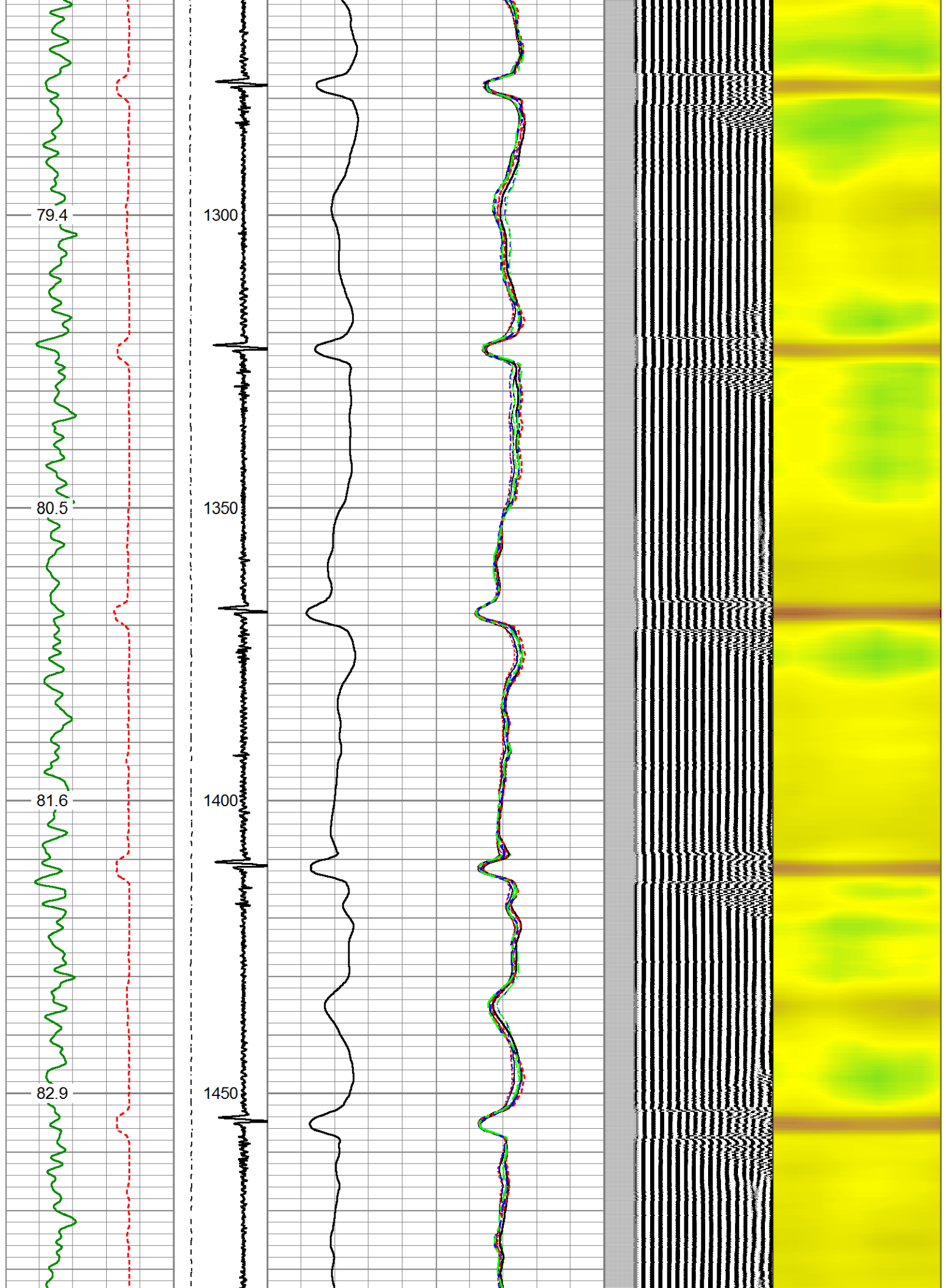


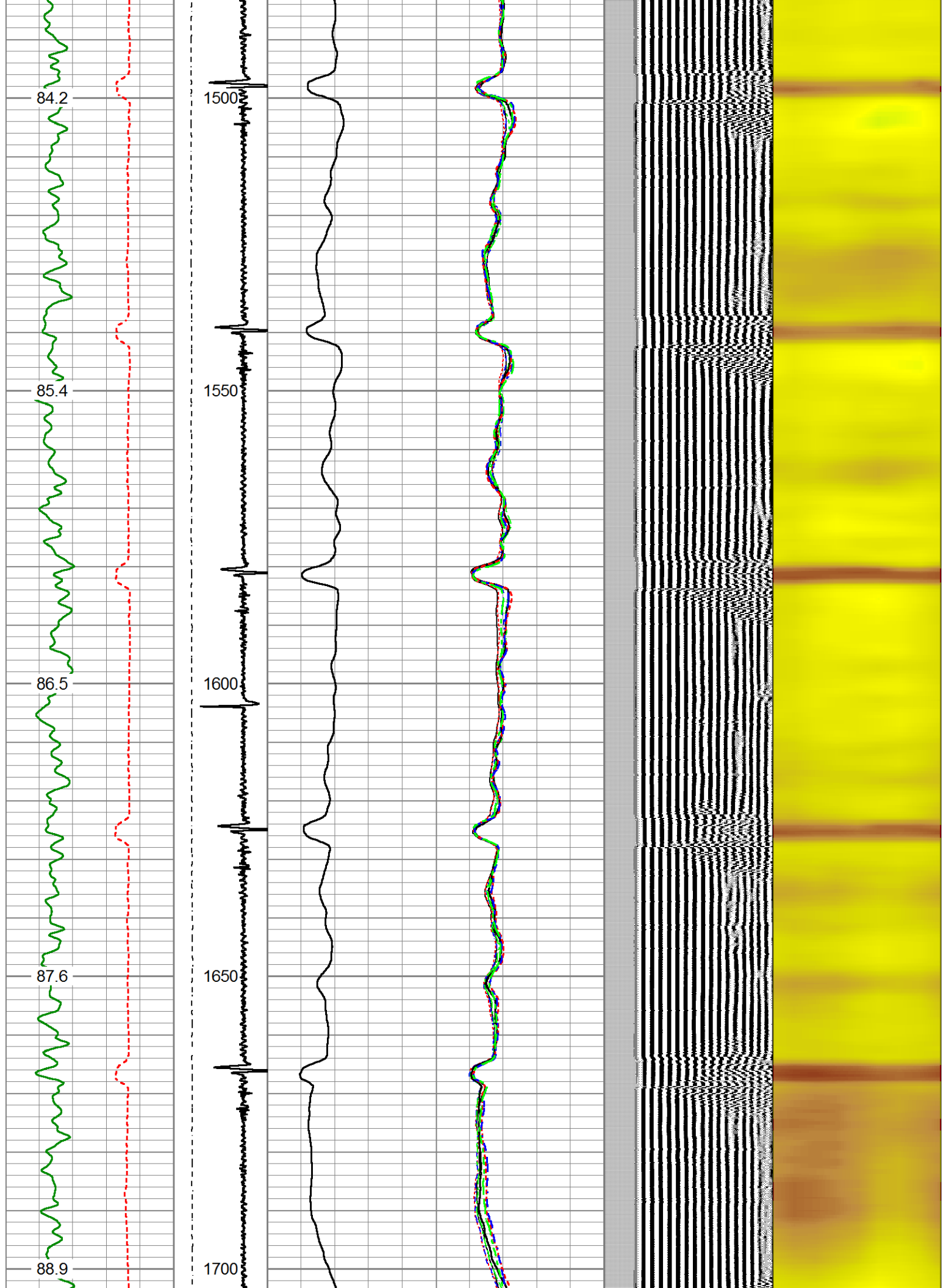


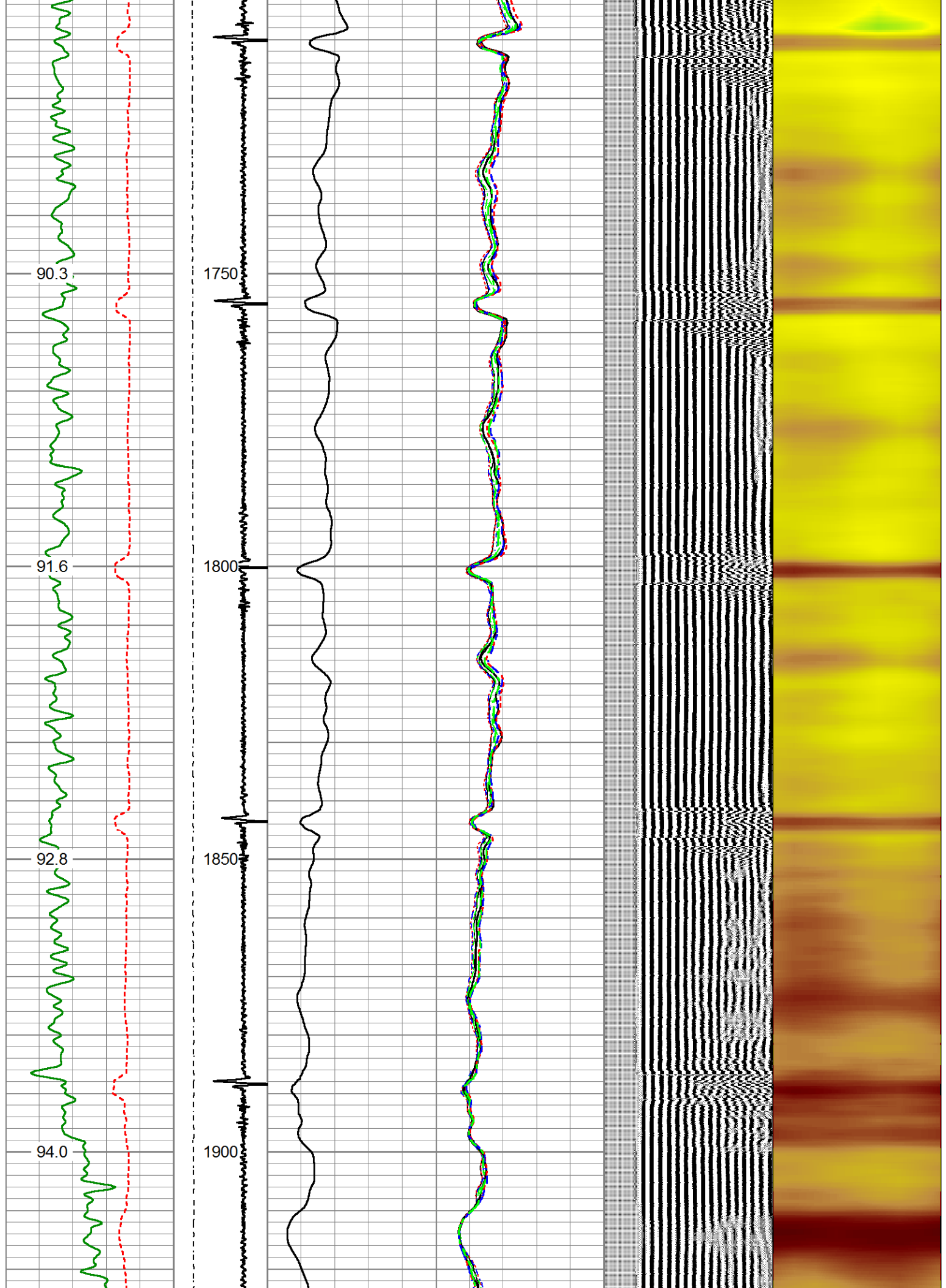


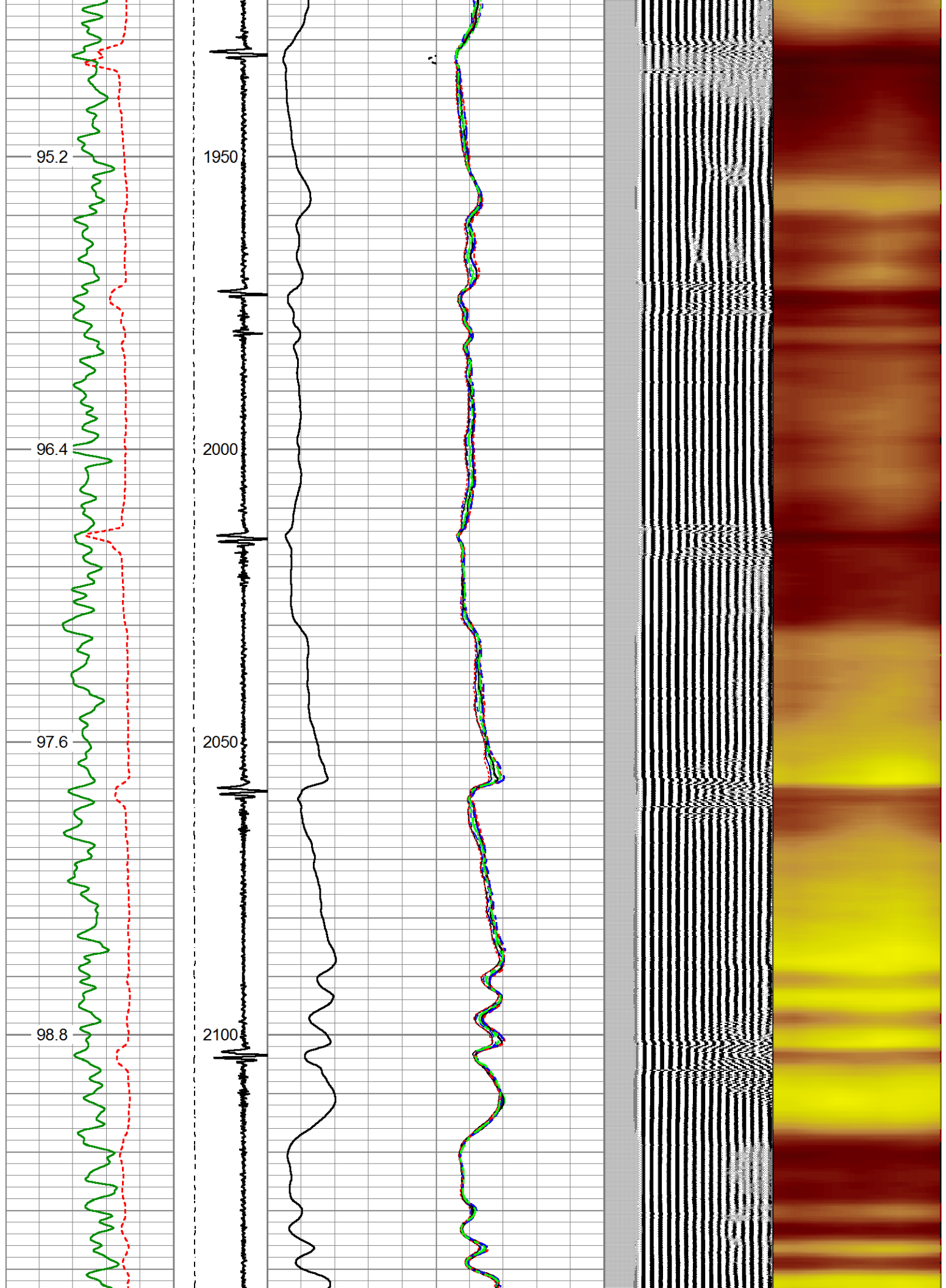


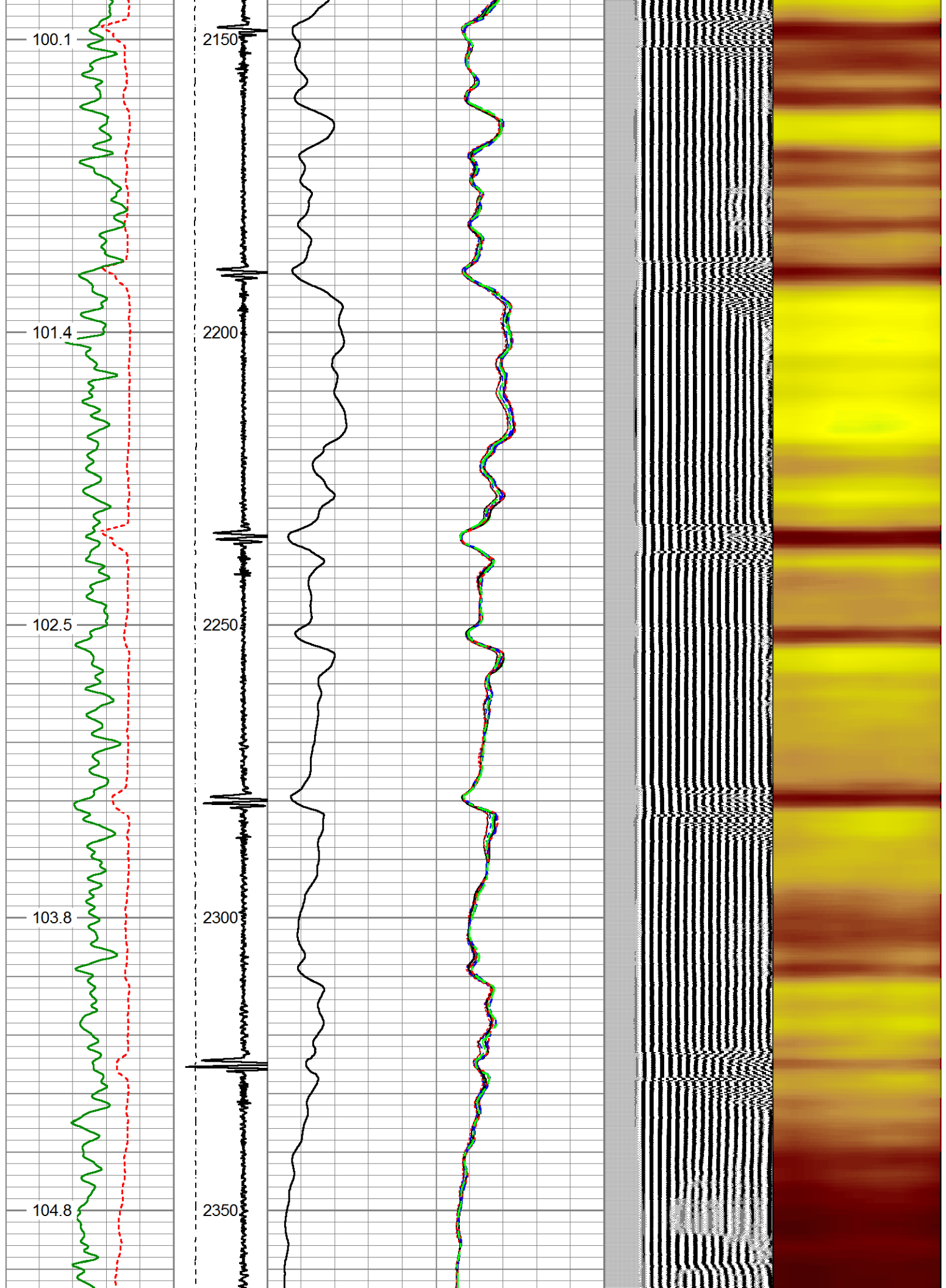


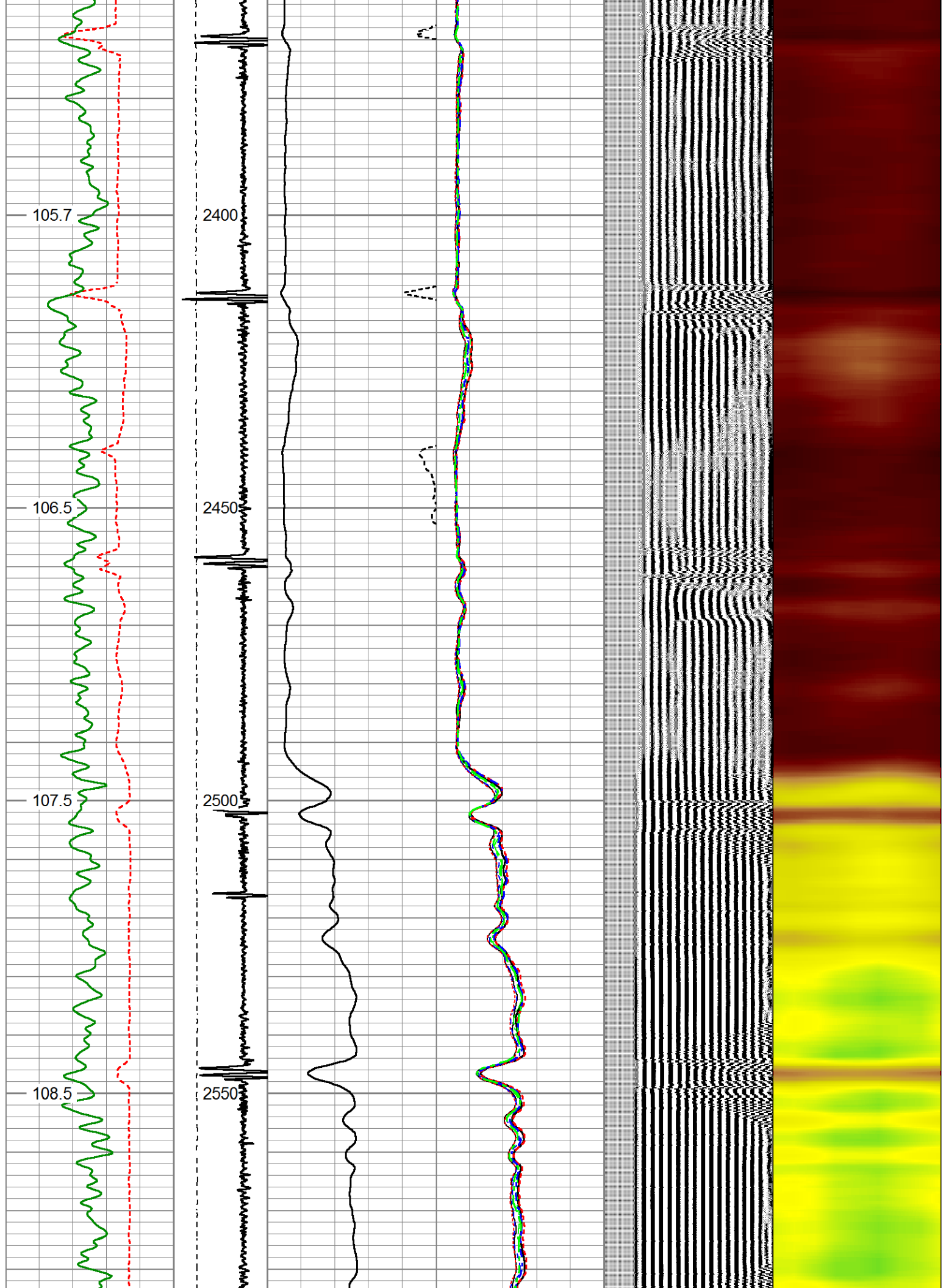


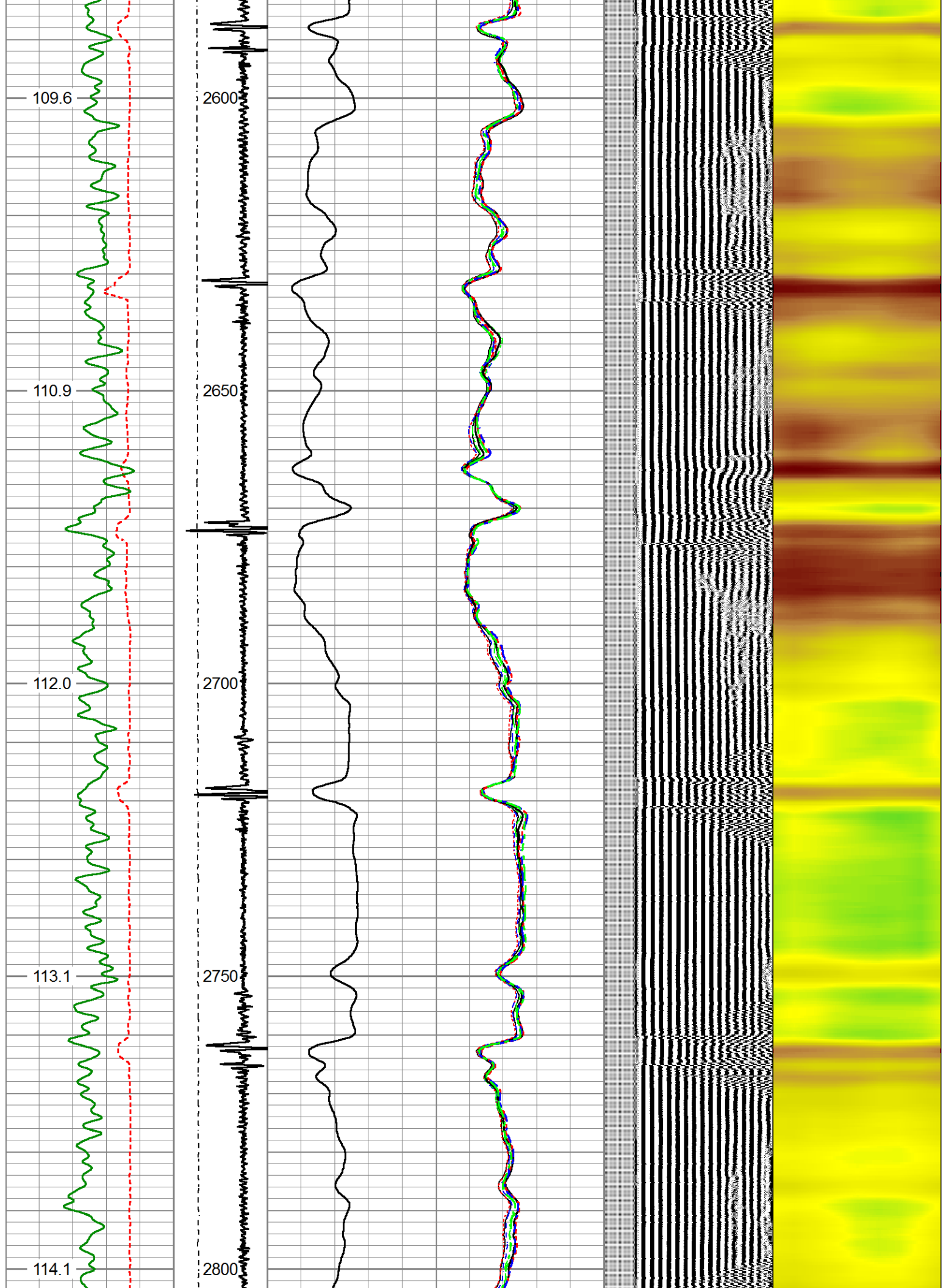


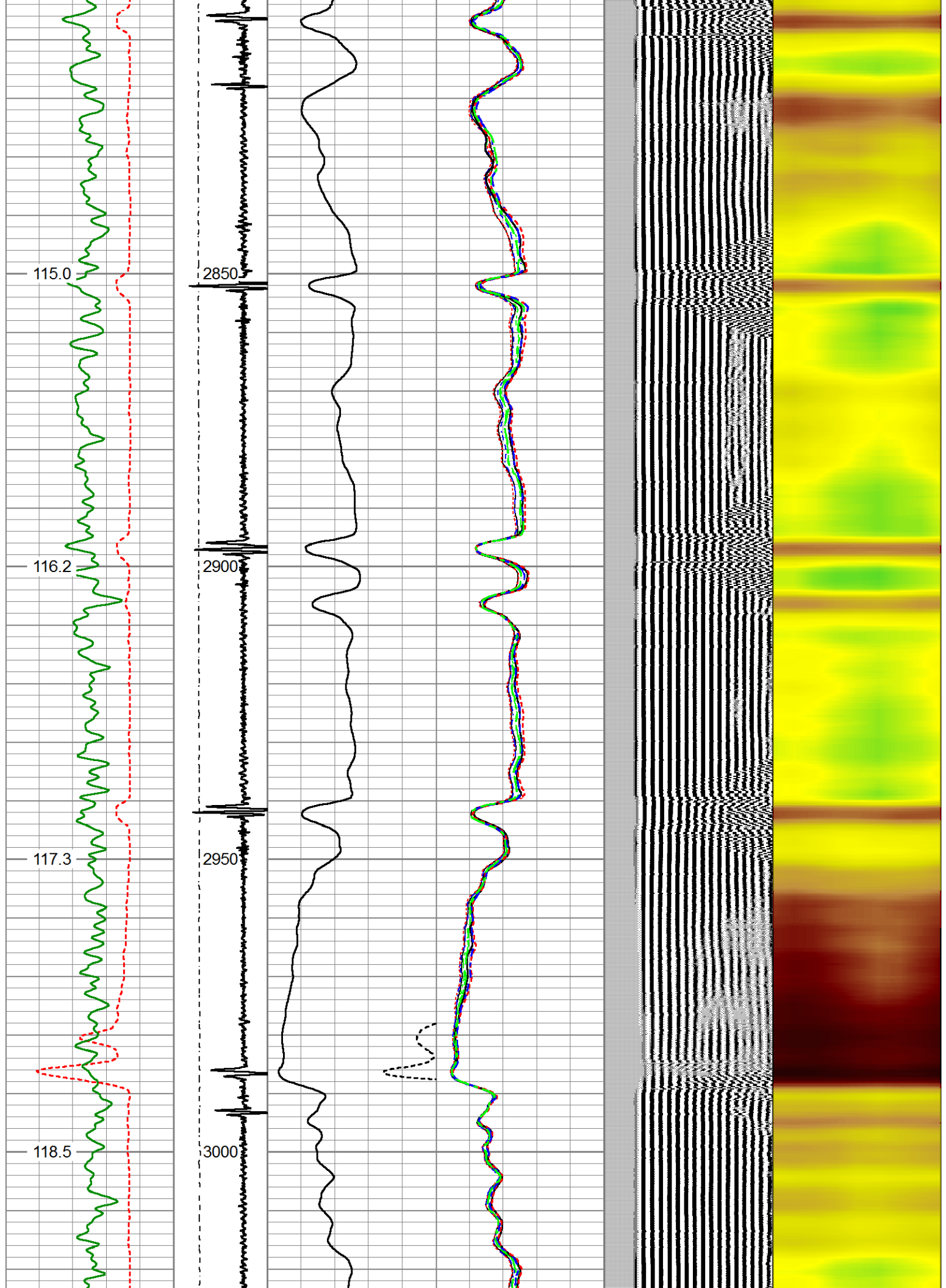


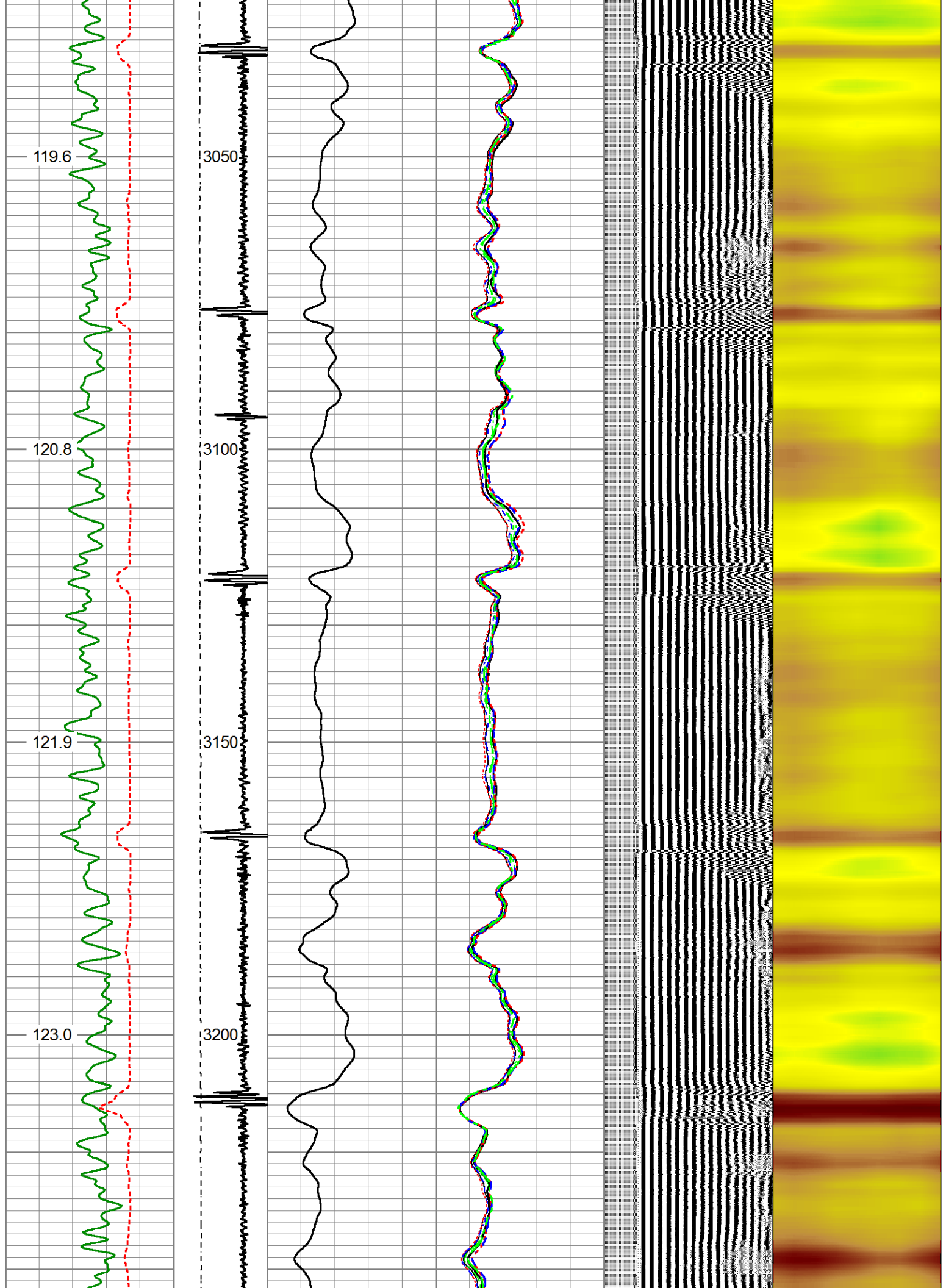


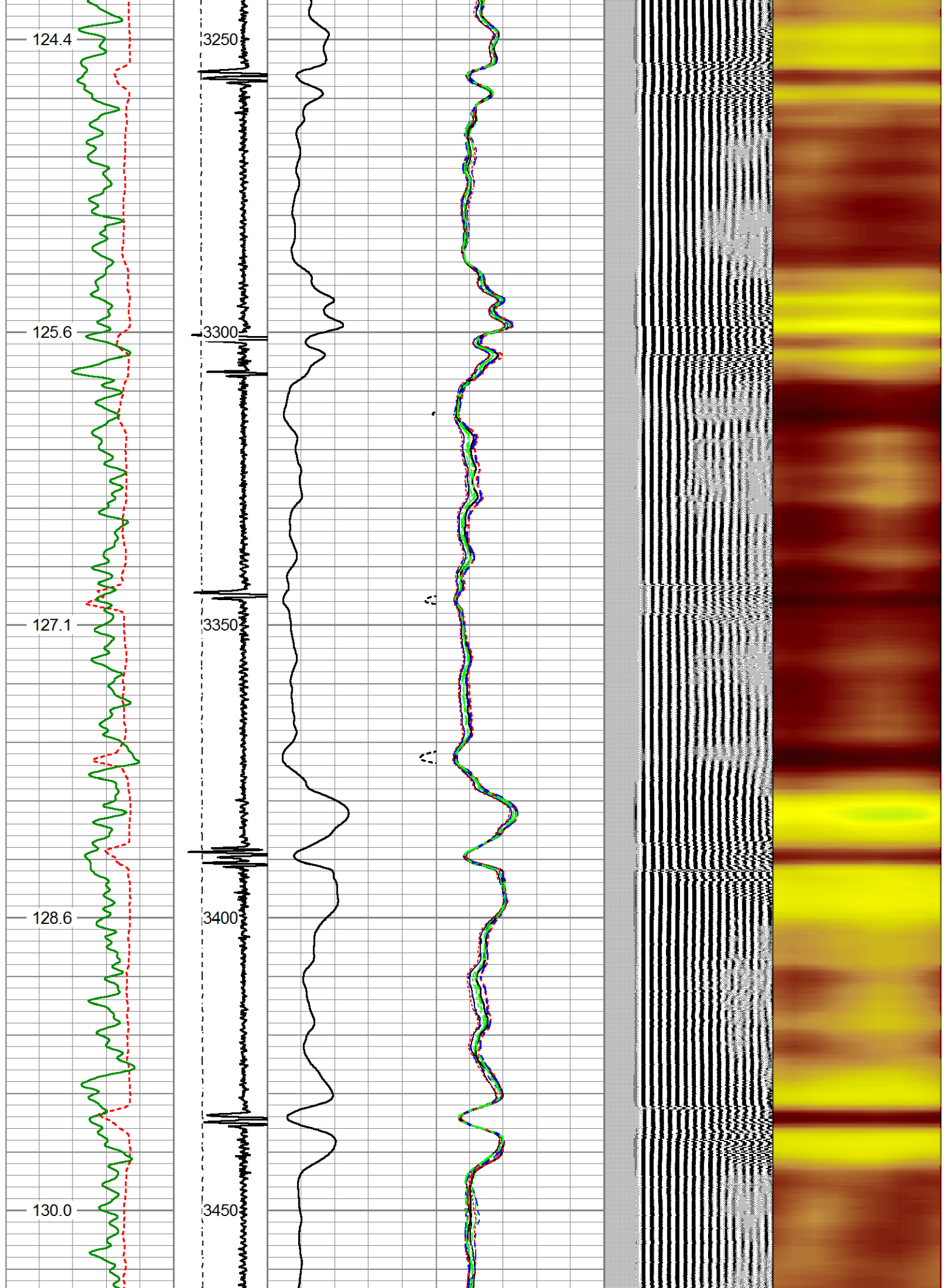


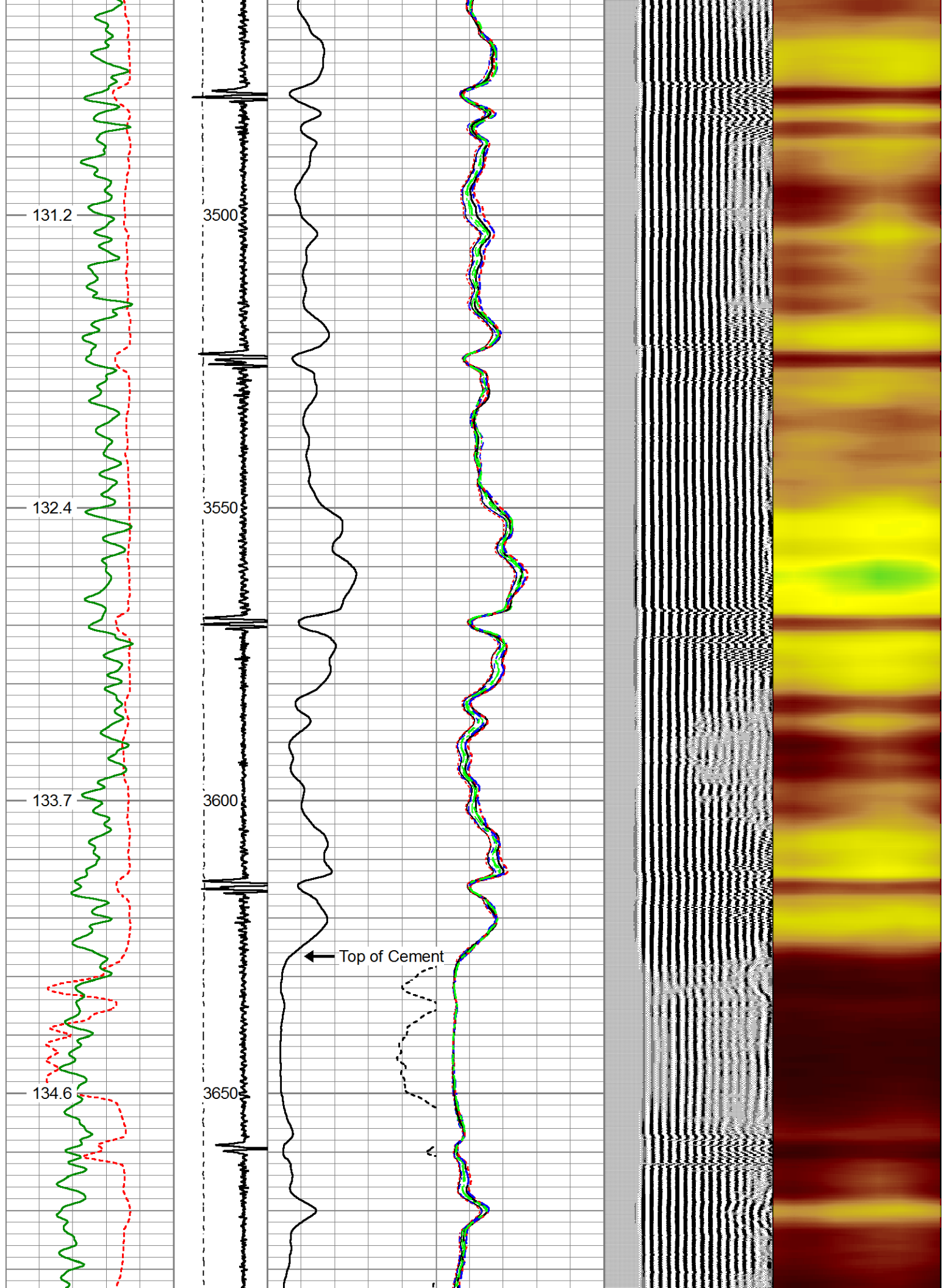


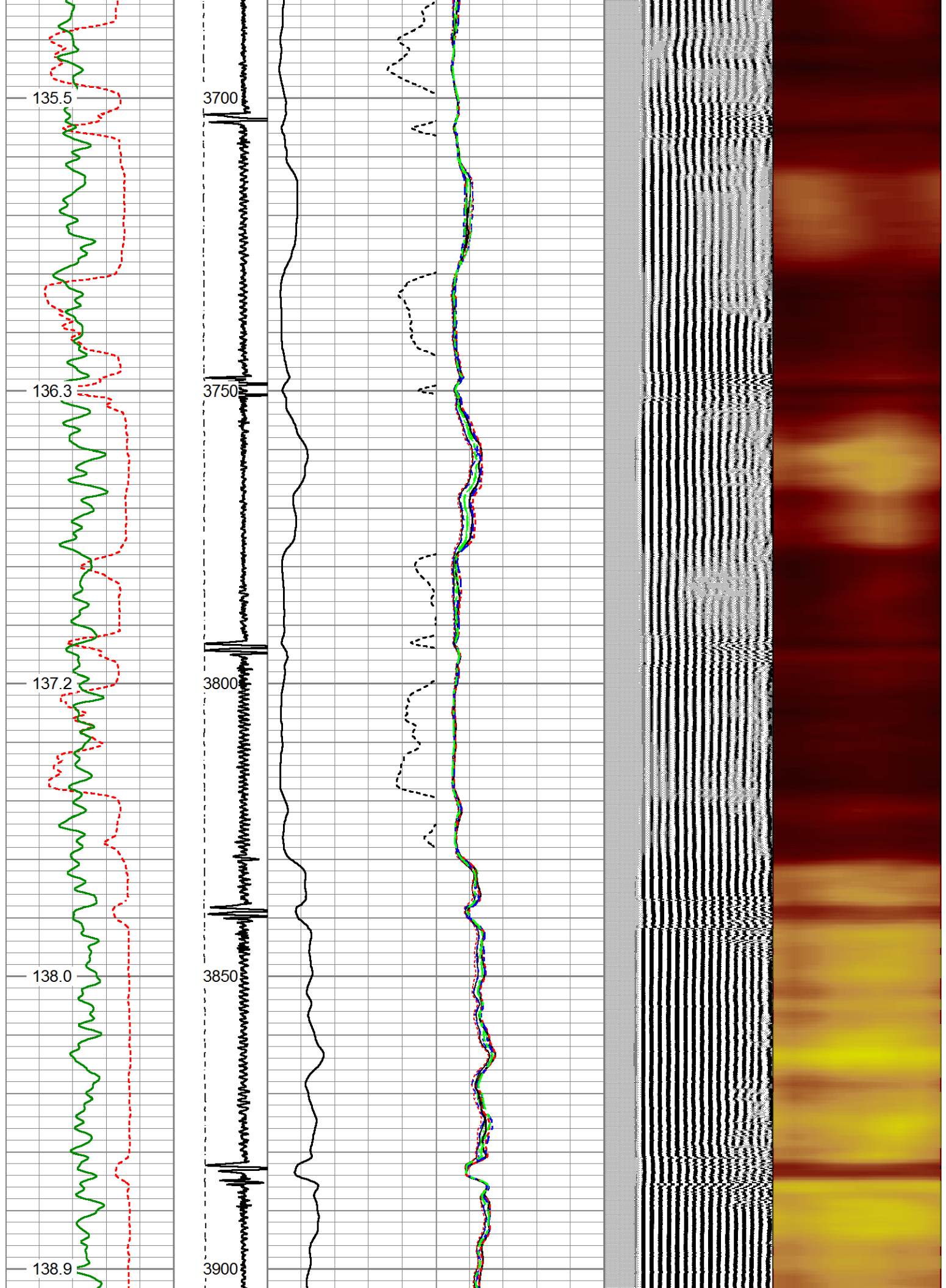


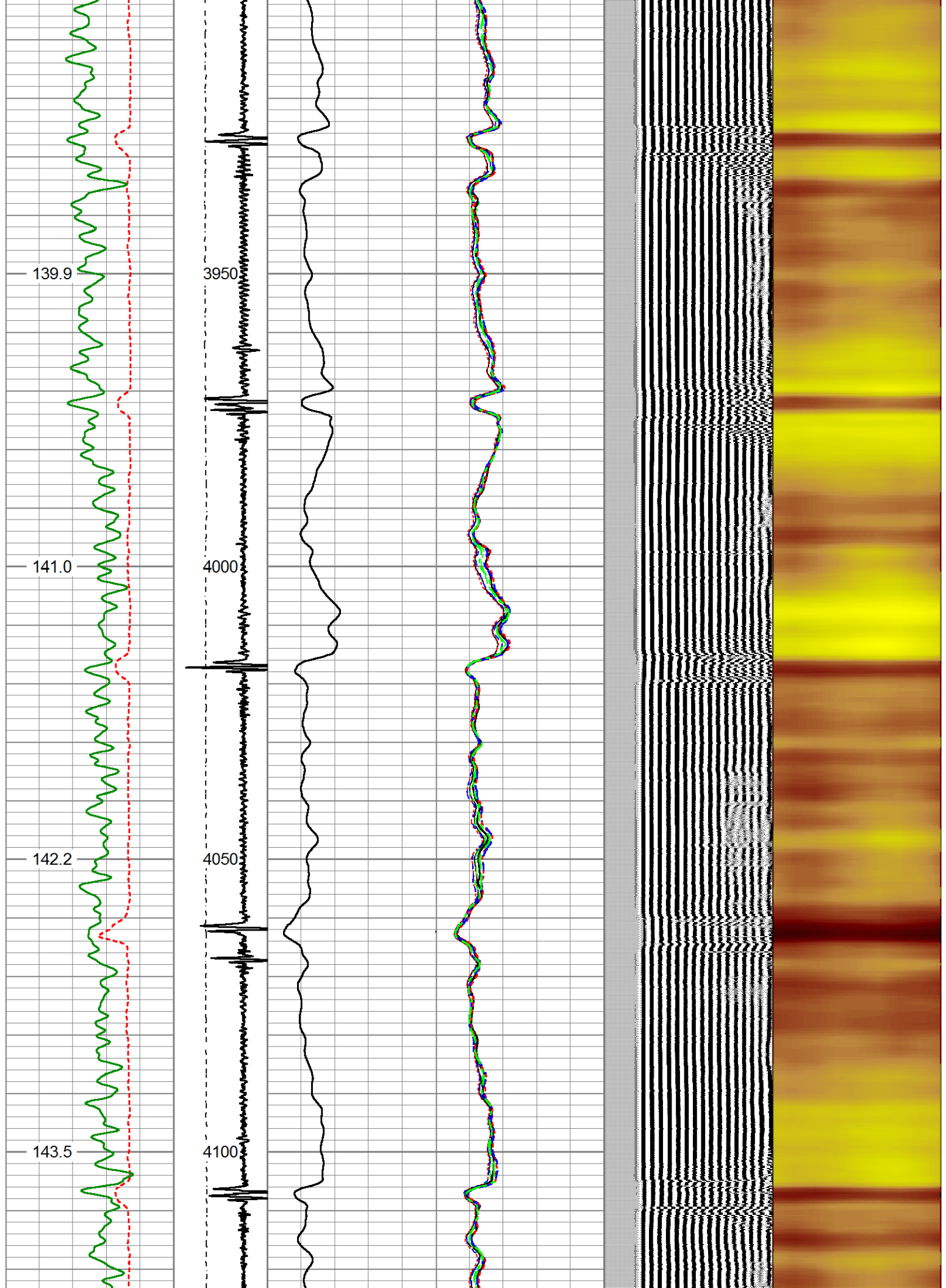


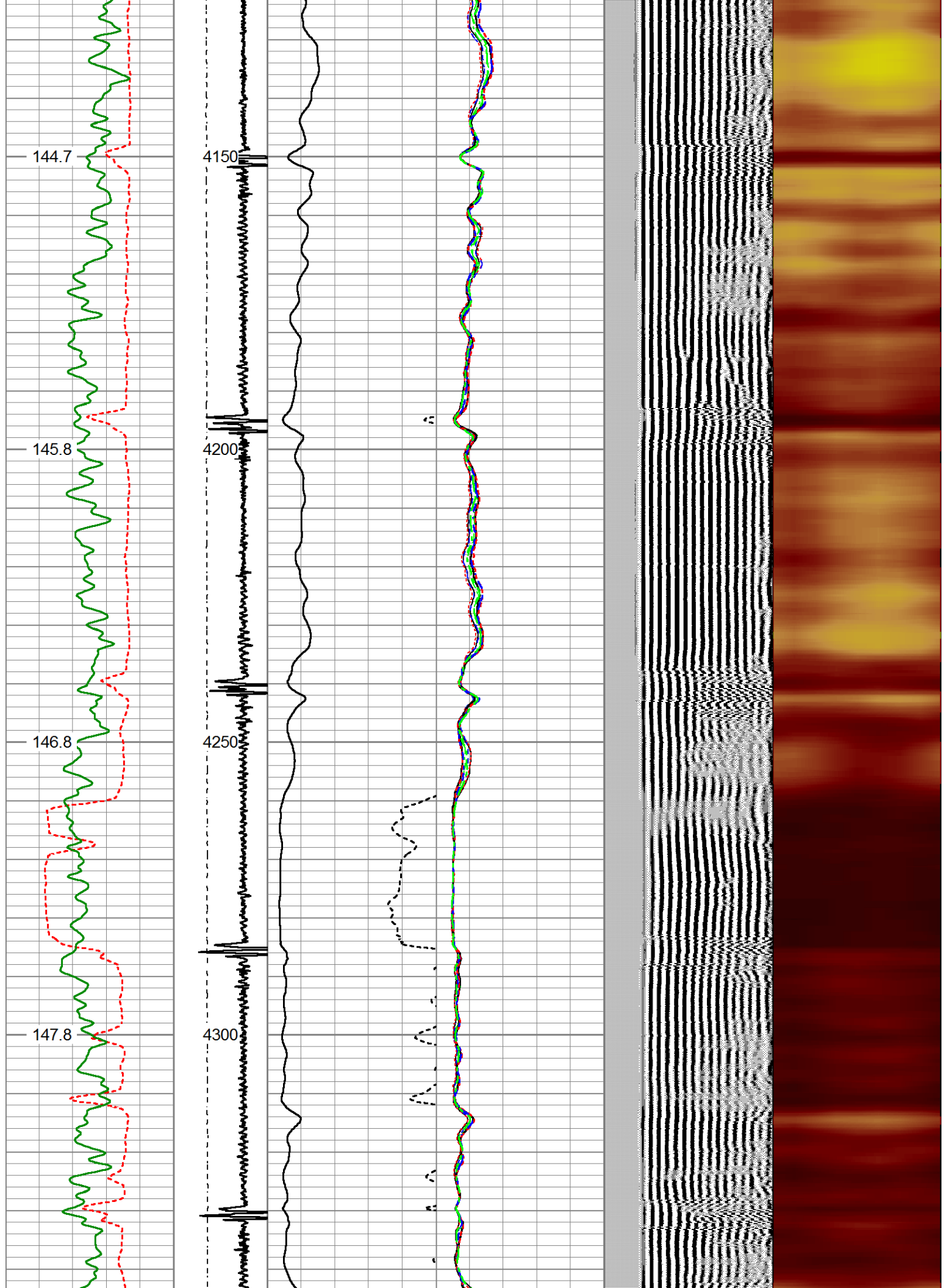


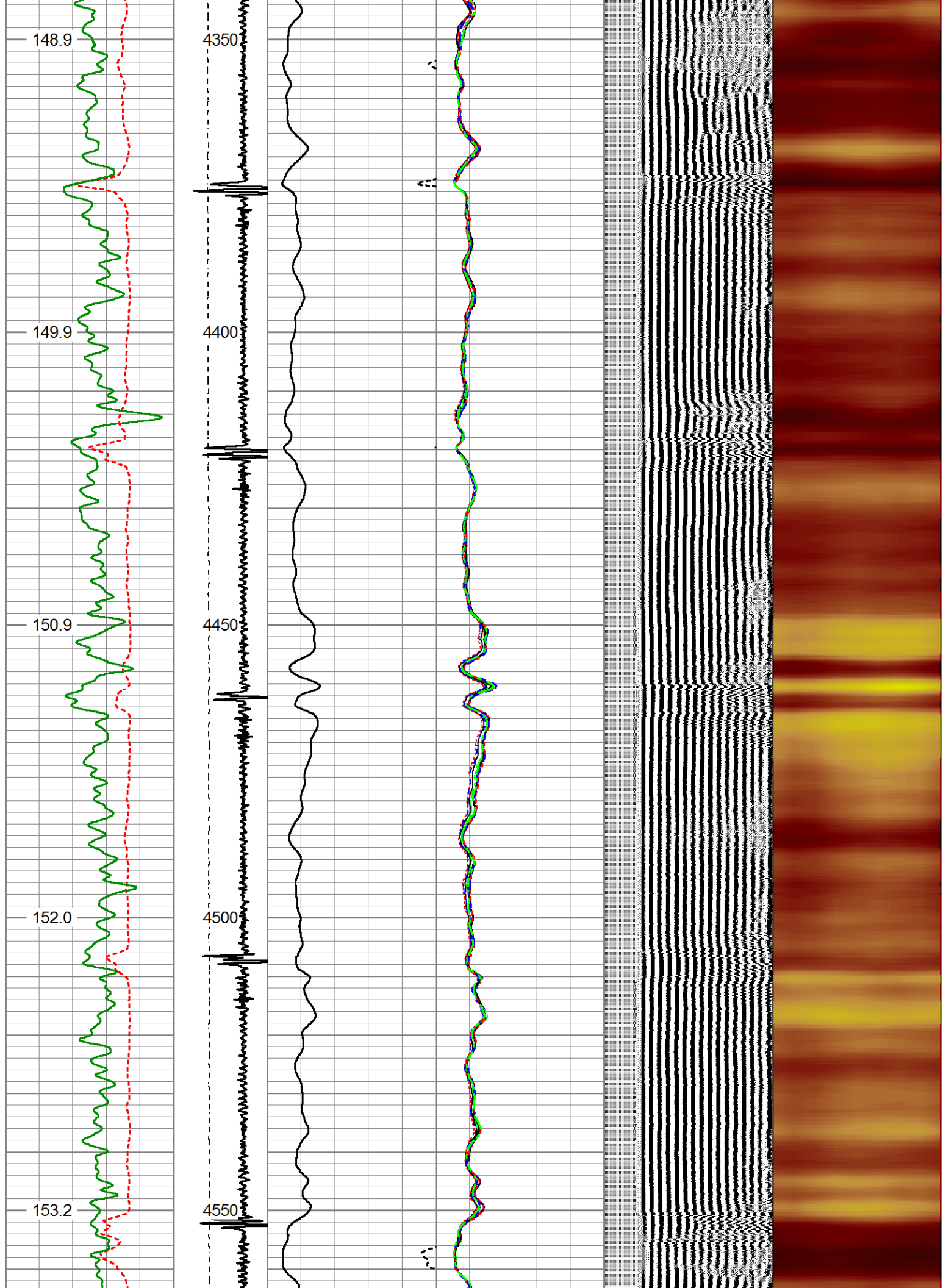


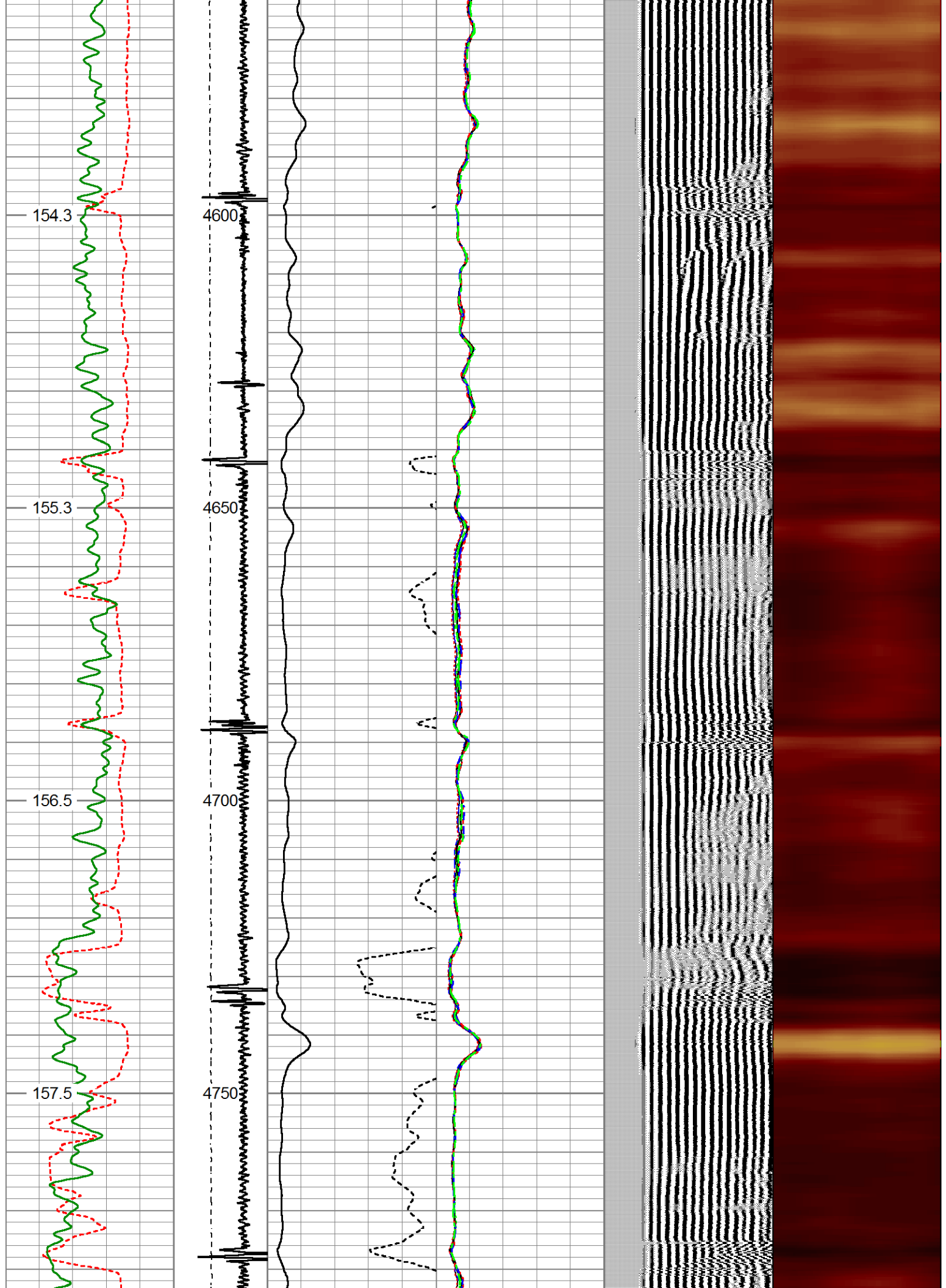


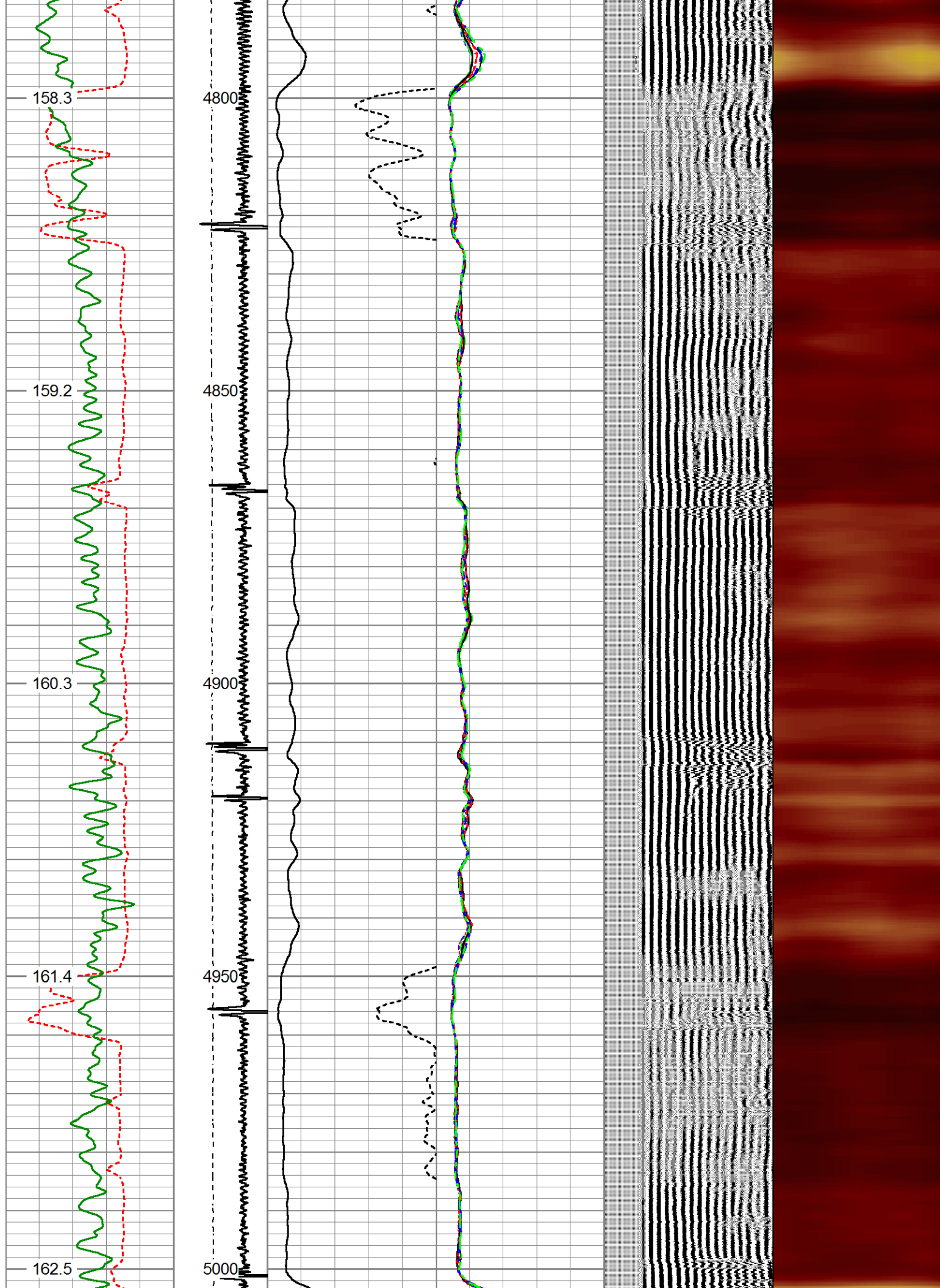


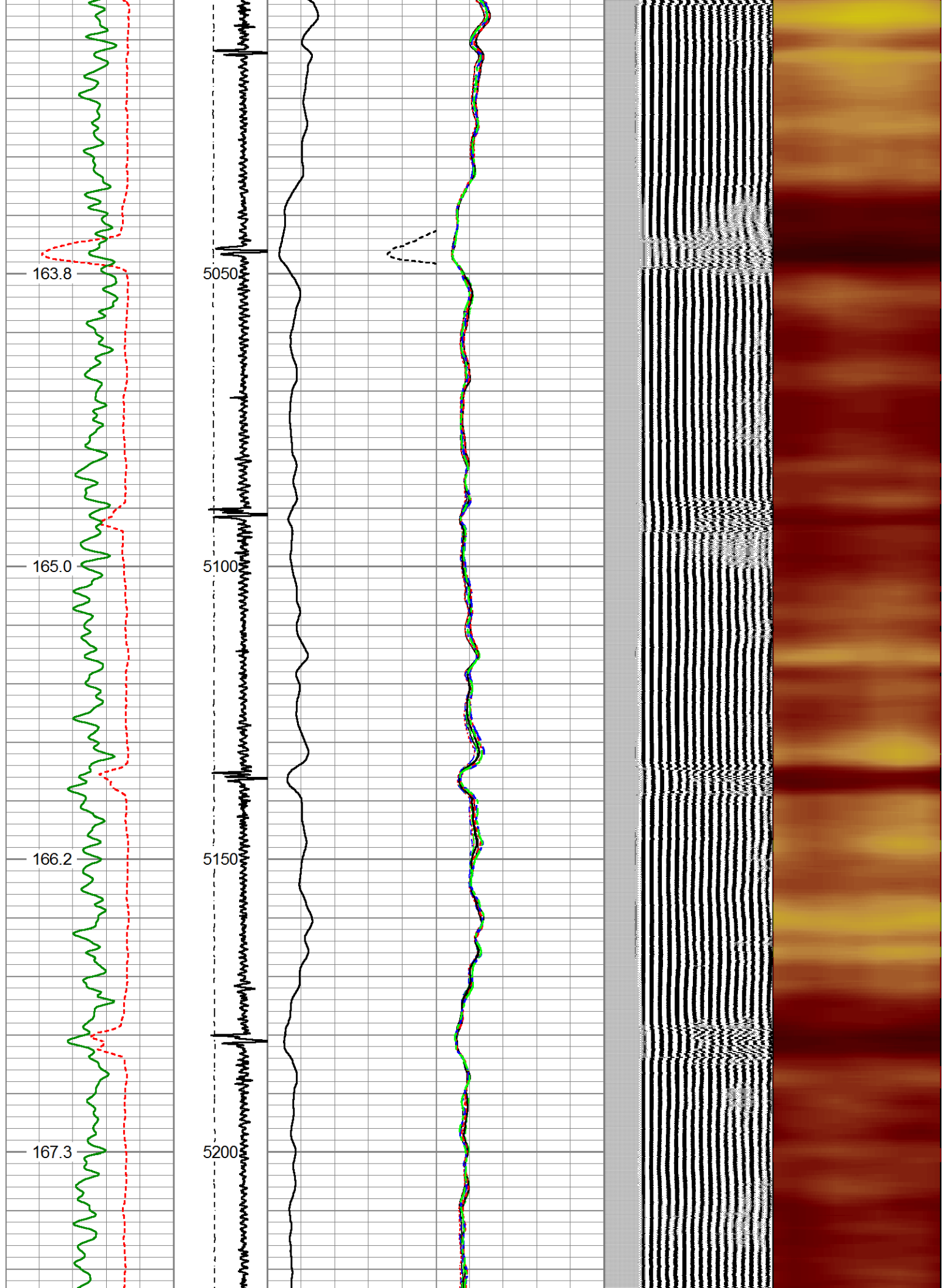


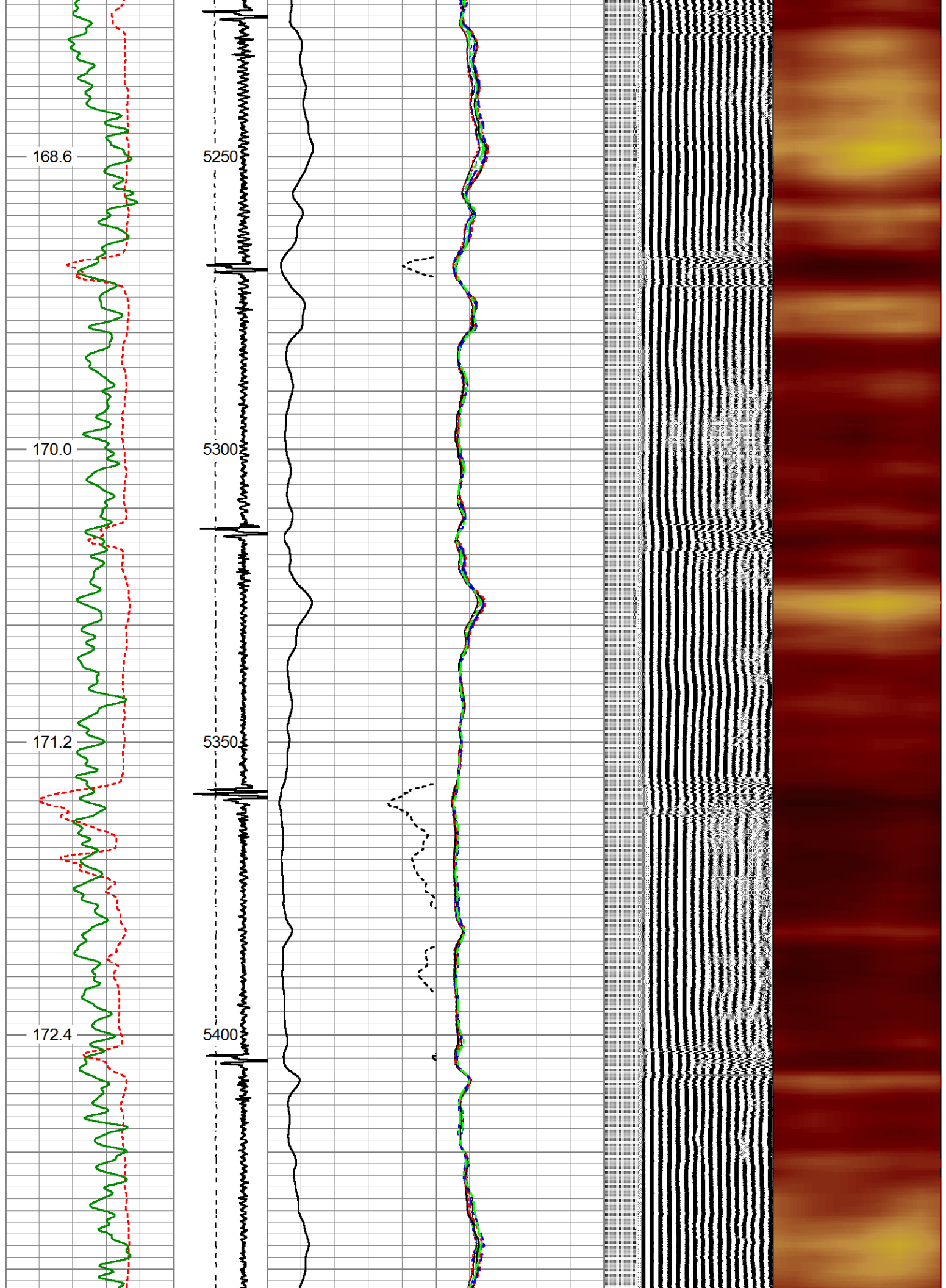


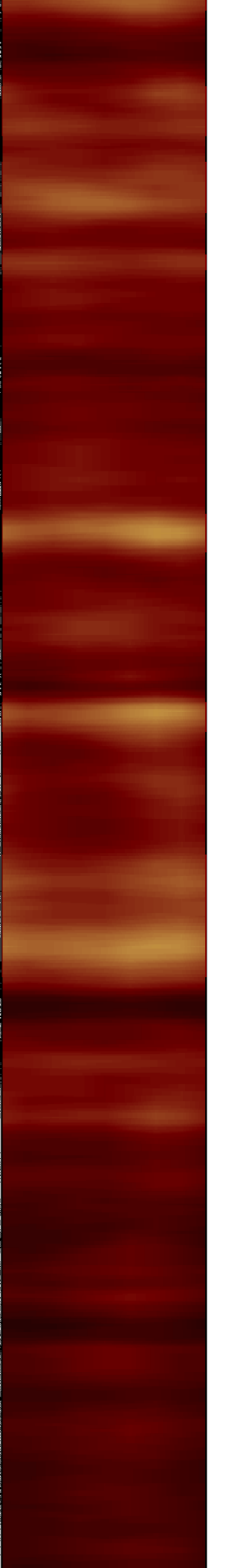
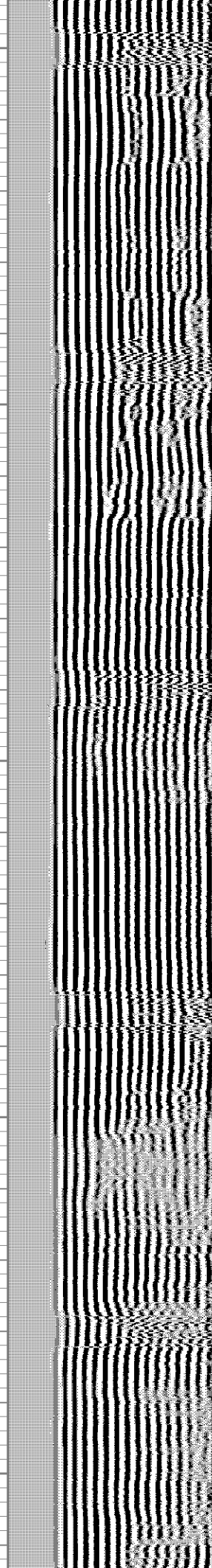
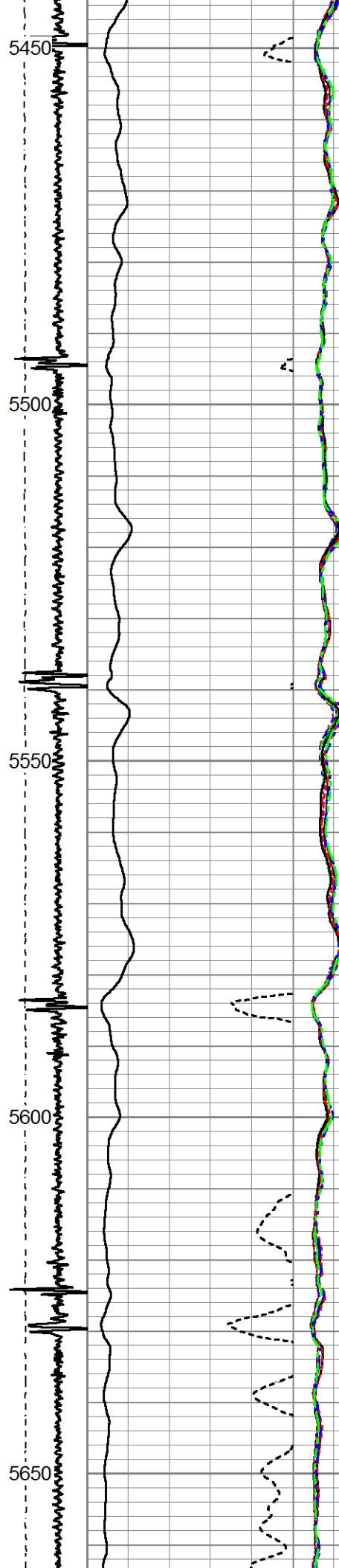
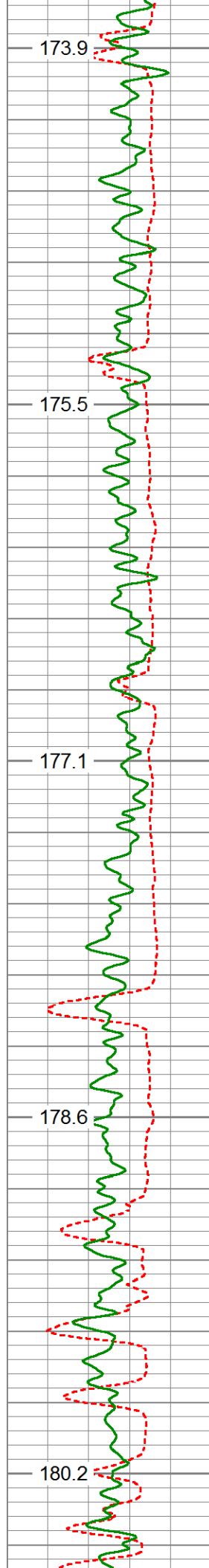


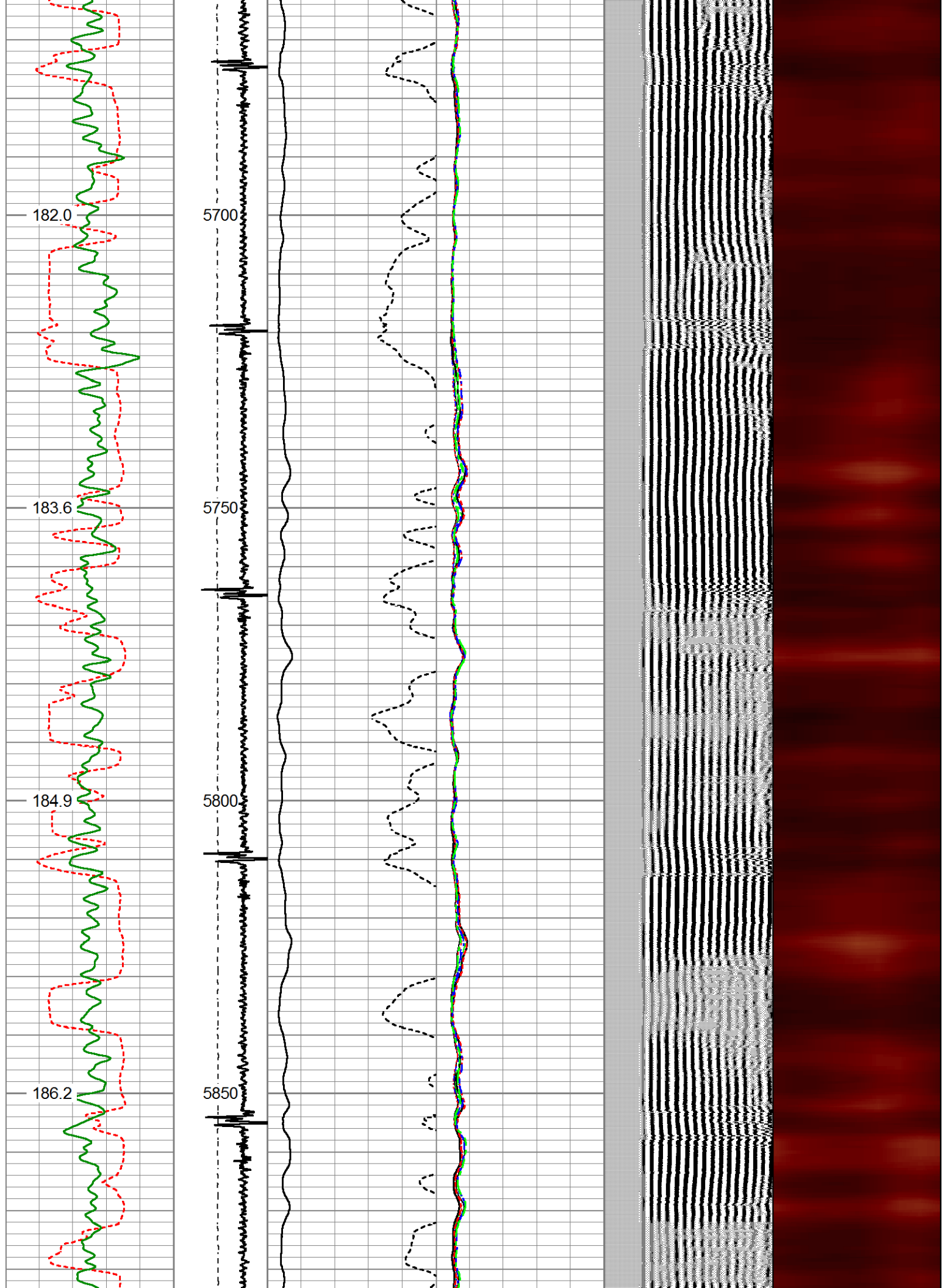


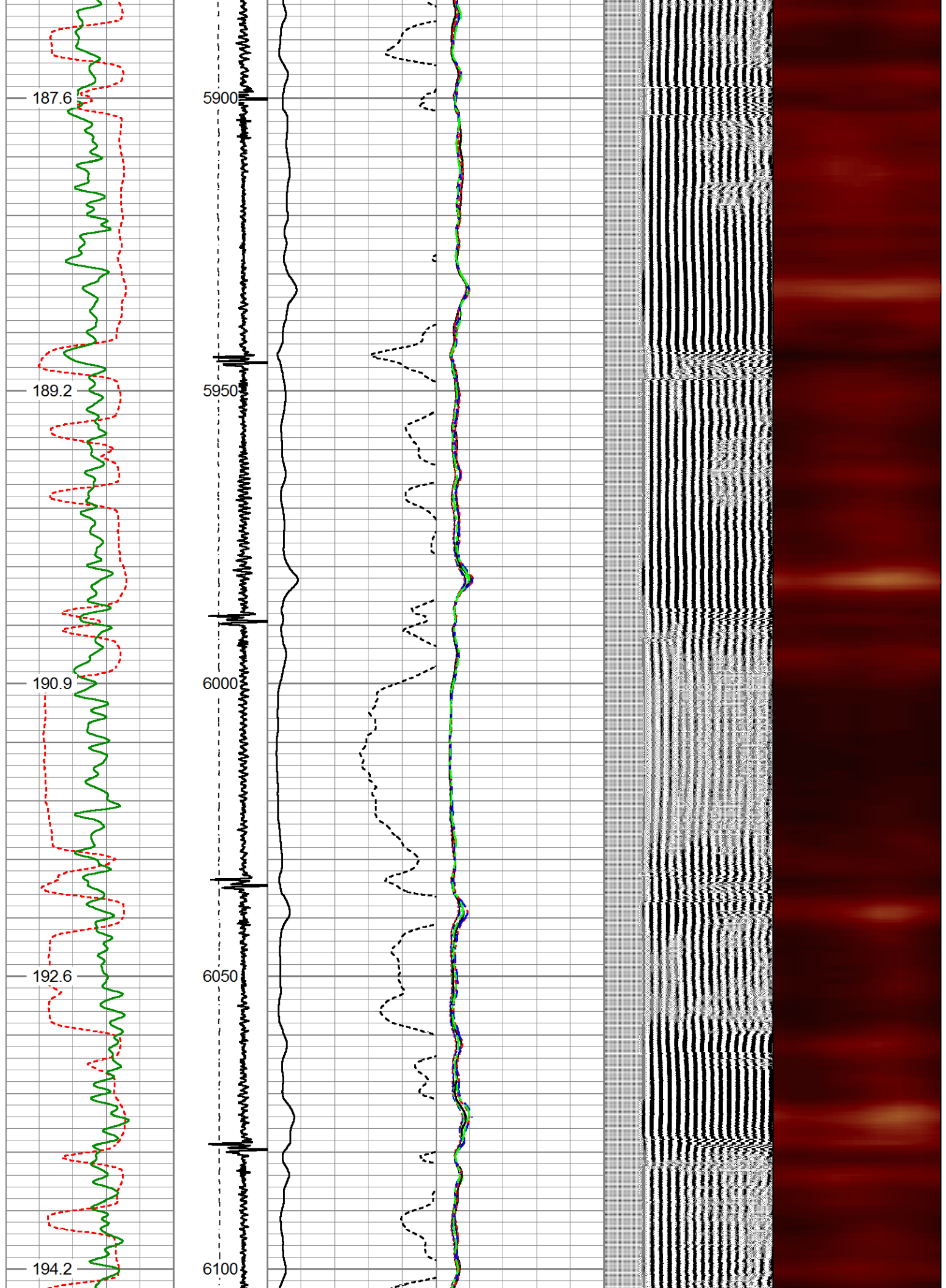


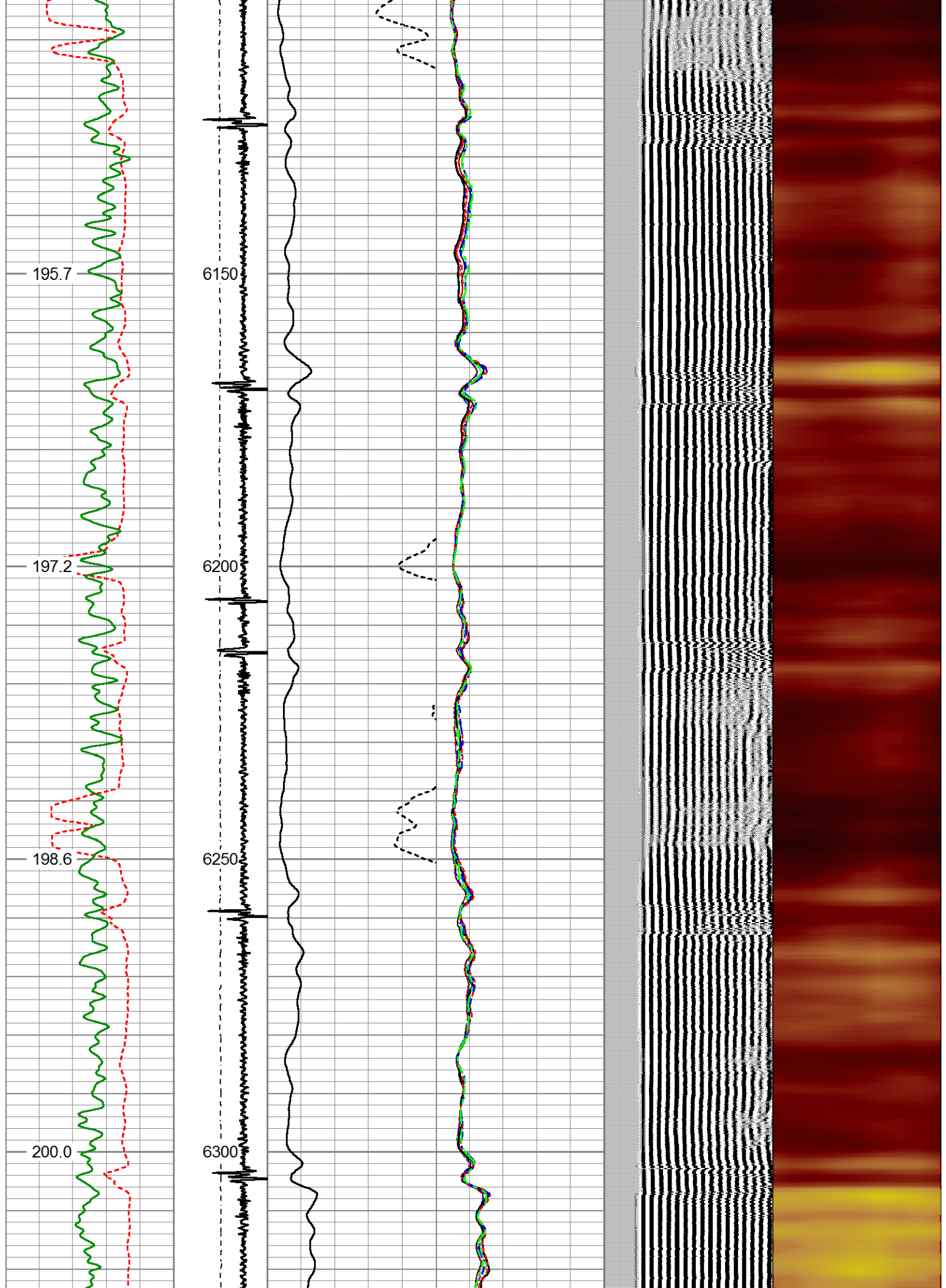


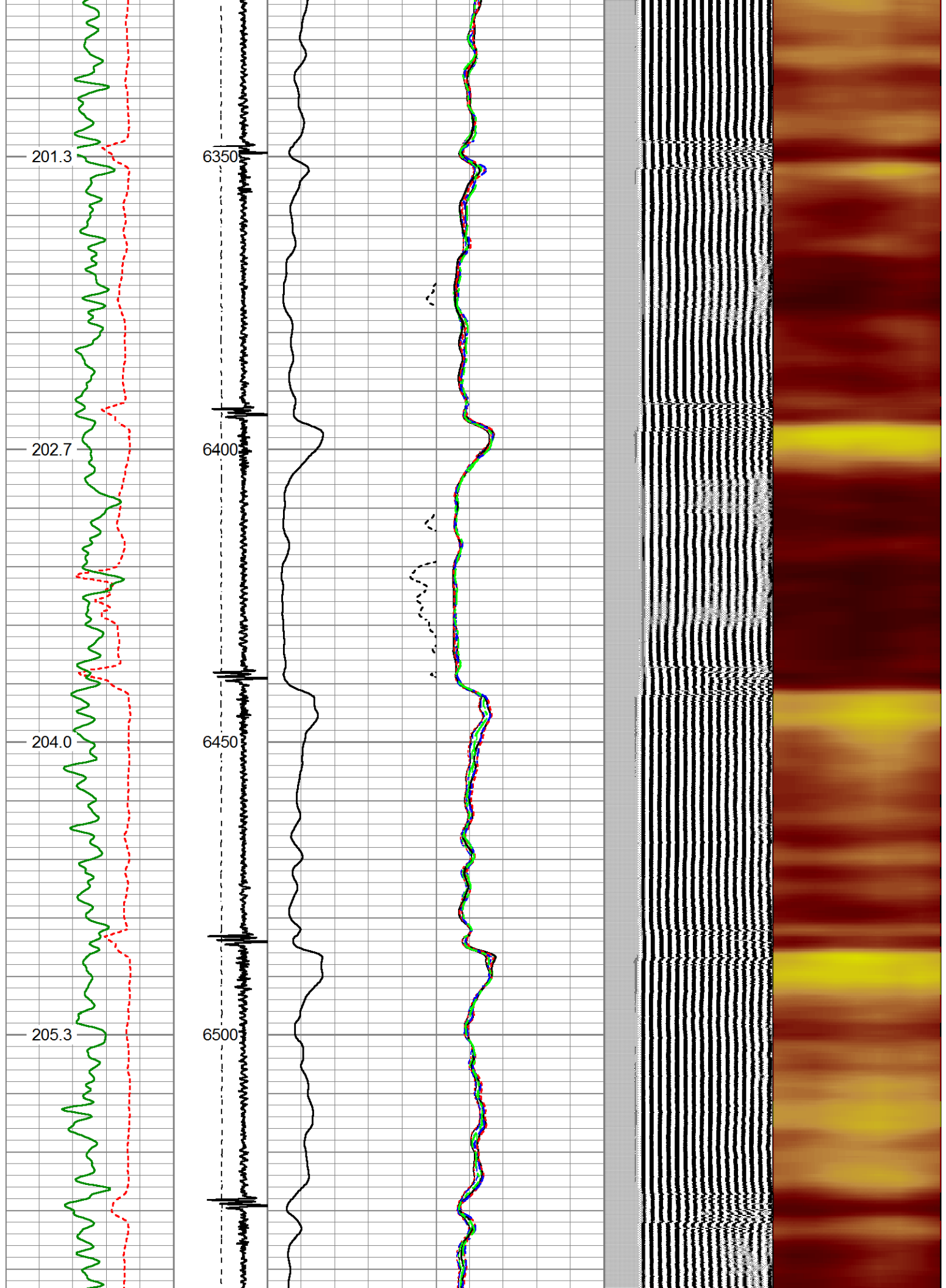


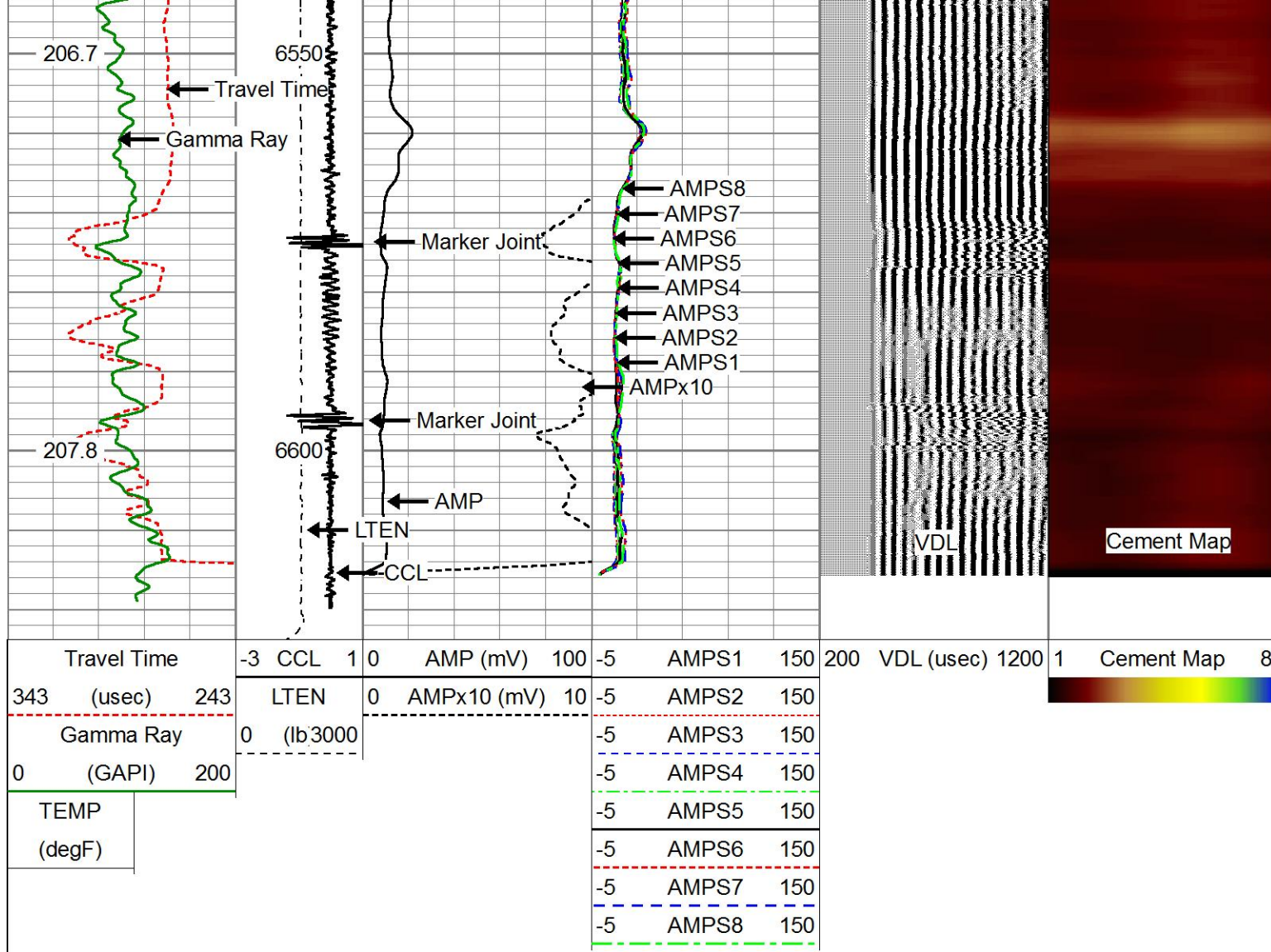








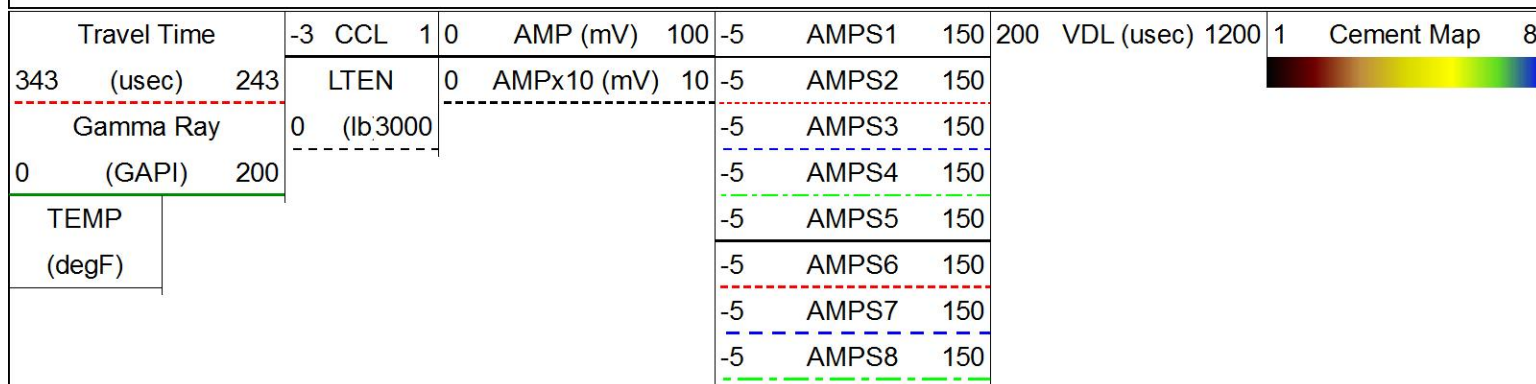


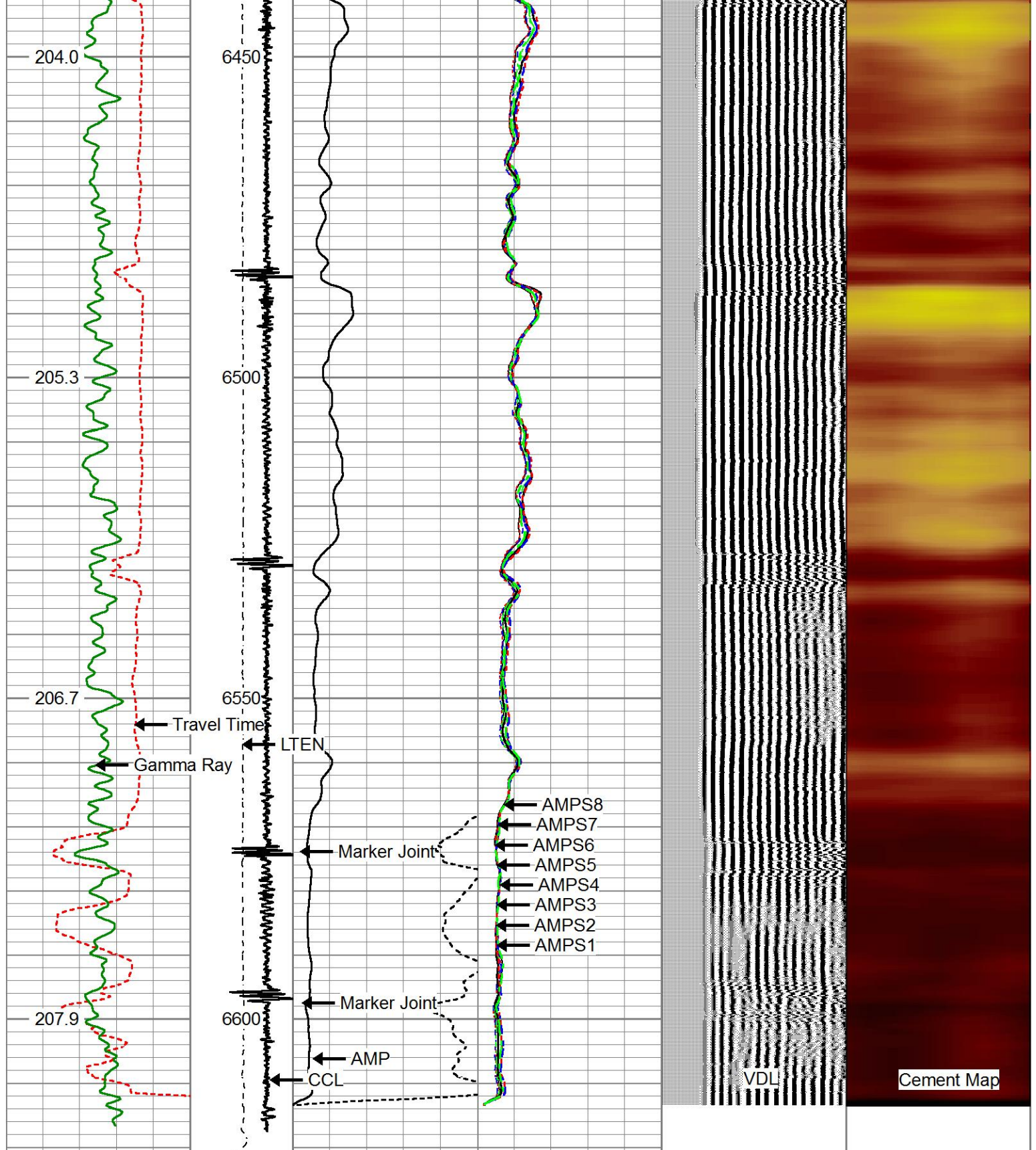


REPEAT PASS, 0 PSI

5" = 100'

Database File: damore 18-2hz.db
 Dataset Pathname: LOG1/pass4
 Presentation Format: rbt-gct8acc
 Dataset Creation: Fri May 15 13:54:26 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							

Calibration Report						
Database File	damore 18-2hz.db					
Dataset Pathname	LOG1/pass5					
Dataset Creation	Fri May 15 13:58:15 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 11:51:24 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	

	<div>Zero</div>	<div>Cal</div>	<div>Zero</div>	<div>Cal</div>	<div>Gain</div>	<div>Offset</div>
CAL	0.000	0.000	0.004	0.629	1.000	0.000

Air Zero Calibration, performed Mon Feb 17 07:02:20 2020:			
	<div>Raw (v)</div>	<div>Calibrated (v)</div>	<div>Results</div>
	<div>Zero</div>	<div>Zero</div>	<div>Offset</div>
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

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 18-2hz.db: field/well/LOG1/pass5 Total length: 15.39 ft Total weight: 131.00 lb O.D.: 2.75 in						

	Company	OCCIDENTAL PETROLEUM CORP.
	Well	DAMORE 18-2HZ
	Field	WATTENBERG
	County	WELD
	State	COLORADO