



**RADIAL CEMENT BOND  
GAMMA RAY  
CCL  
TEMP**

**Company OCCIDENTAL PETROLEUM CORP.  
Well DAMORE 18-6HZ  
Field WATTENBERG  
County WELD State COLORADO**

**Location:** API # : 05-123-50776

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 18 MAY 2020

Run Number	ONE		
Depth Driller	17728'		
Depth Logger	6730'		
Bottom Logged Interval	6730'		
Top Log Interval	SURFACE		
Open Hole Size	8.50"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	209 DEG F		
Estimated Cement Top	2682'		
Time Well Ready	ROA		
Time Logger on Bottom	09:30		
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'	1911'				
TWO	8.50"	1911'	17728'				
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	9-5/8"		36# J-55		0'		1901'
Prot. String							
Production String	5-1/2"		17# HCP110		0'		17692'
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 6689' - 6711'**

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

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



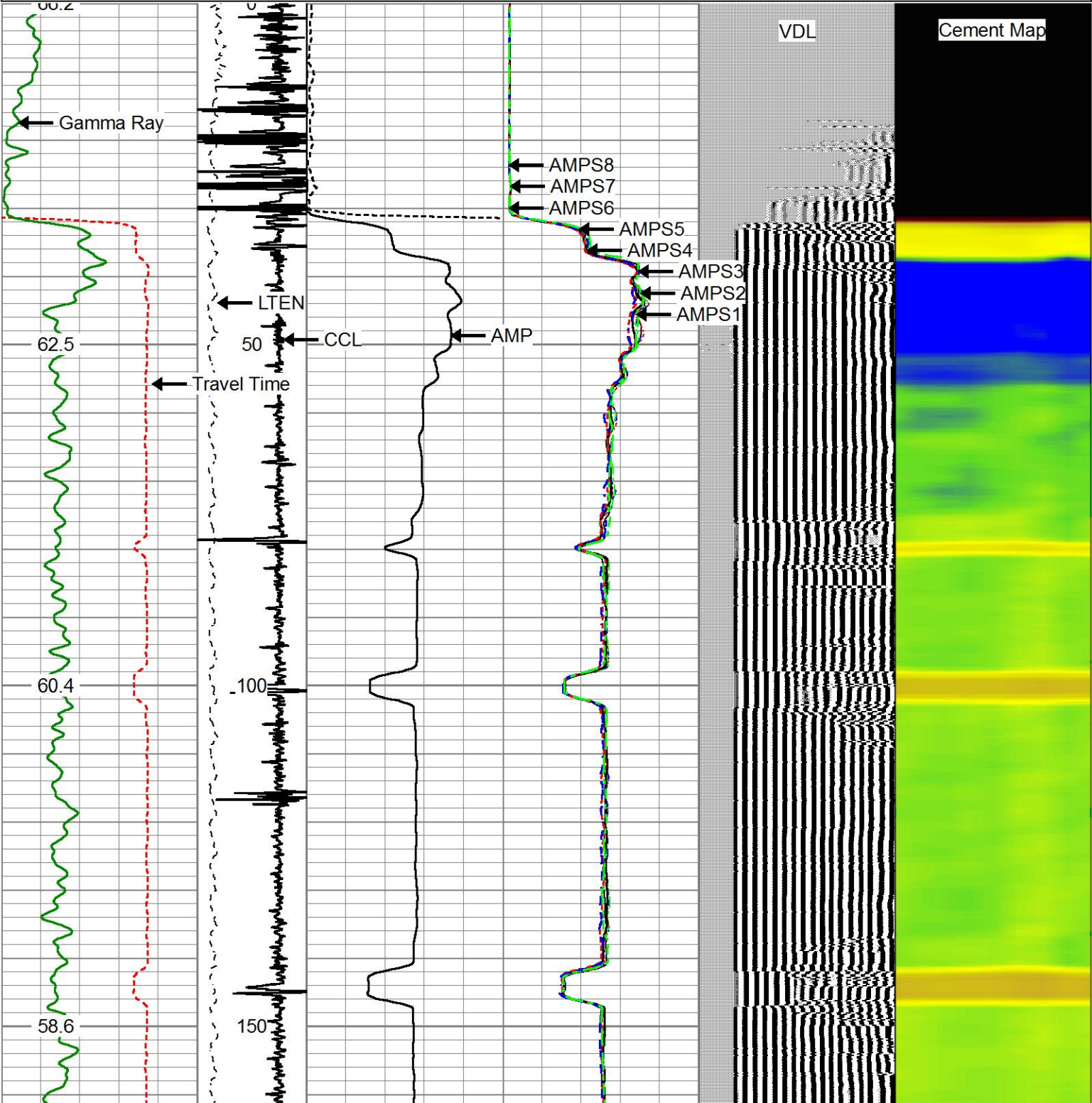
**MAIN PASS, 2800 PSI**

**5" = 100'**

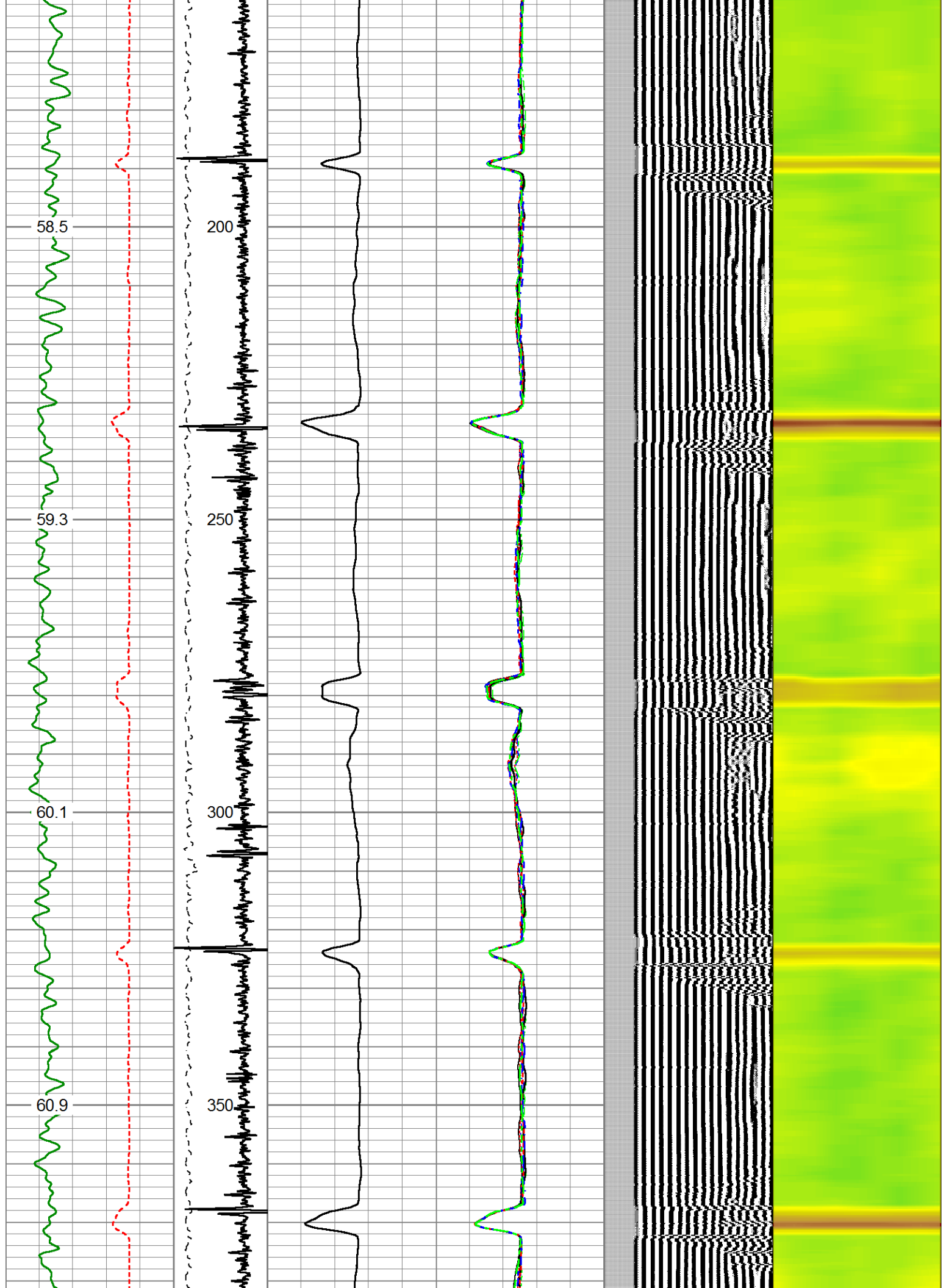
Database File	damore 18-6hz.db
Dataset Pathname	LOG1/pass4
Presentation Format	rbt-gct8acc
Dataset Creation	Mon May 18 09:31:06 2020
Charted by	Depth in Feet scaled 1:240

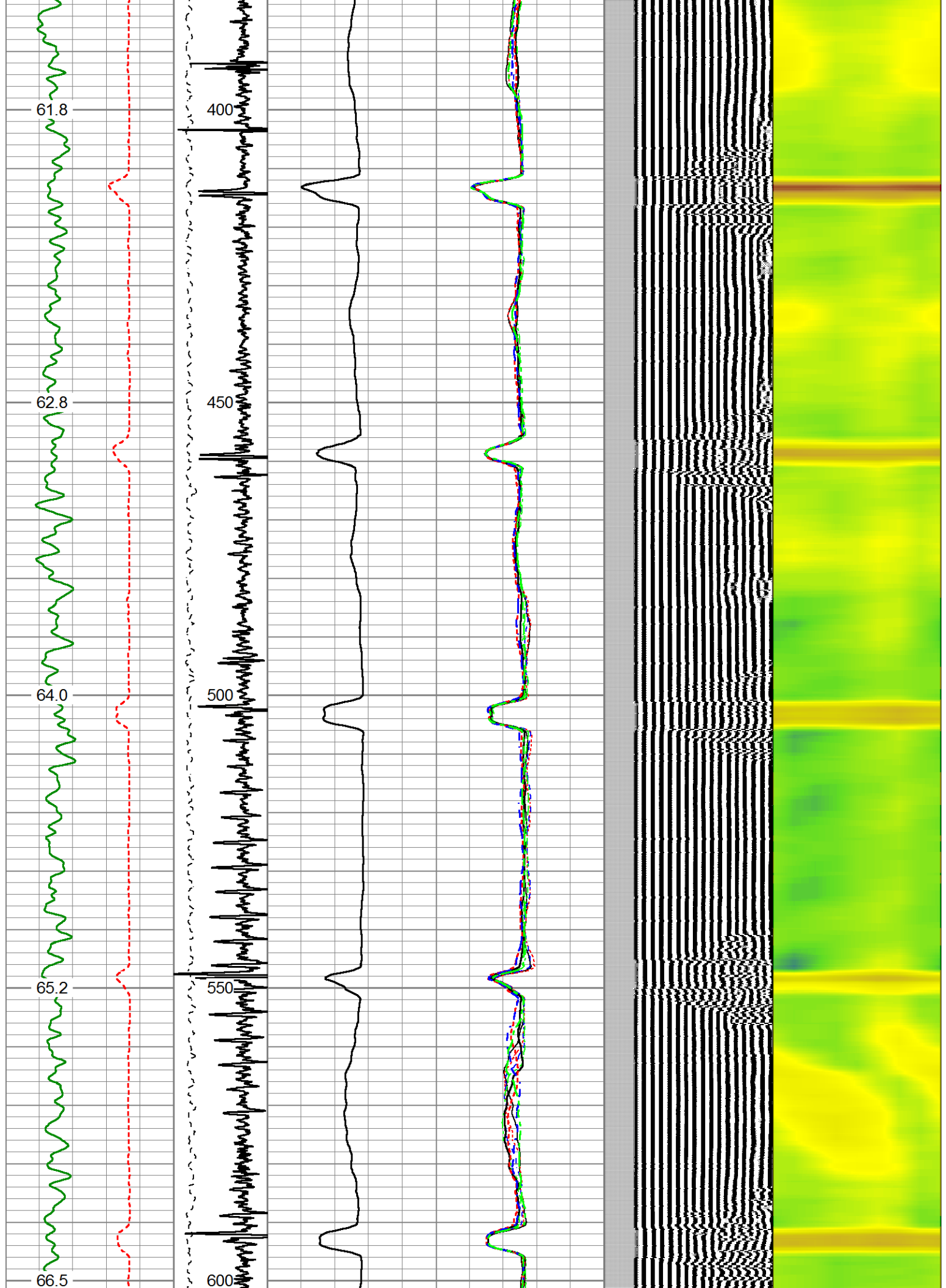
  

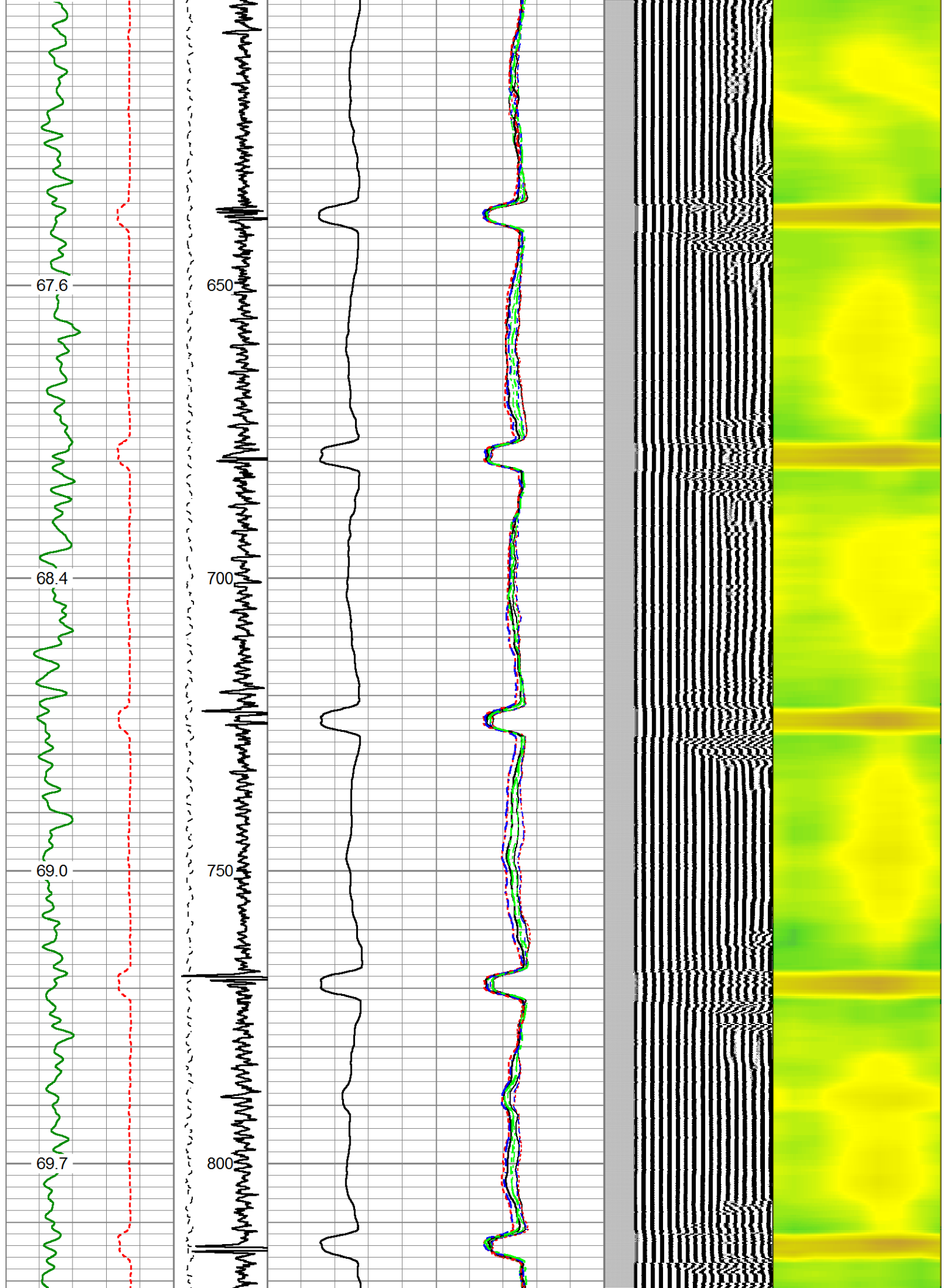
Travel Time	-3 CCL	1 0	AMP (mV)	100	-5	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
343 (usec)	243	LTEN	0	AMPx10 (mV)	10	-5	AMPS2	150					
Gamma Ray	0 (lb3000)					-5	AMPS3	150					
0 (GAPI)	200					-5	AMPS4	150					
TEMP						-5	AMPS5	150					
(degF)						-5	AMPS6	150					
						-5	AMPS7	150					
						-5	AMPS8	150					

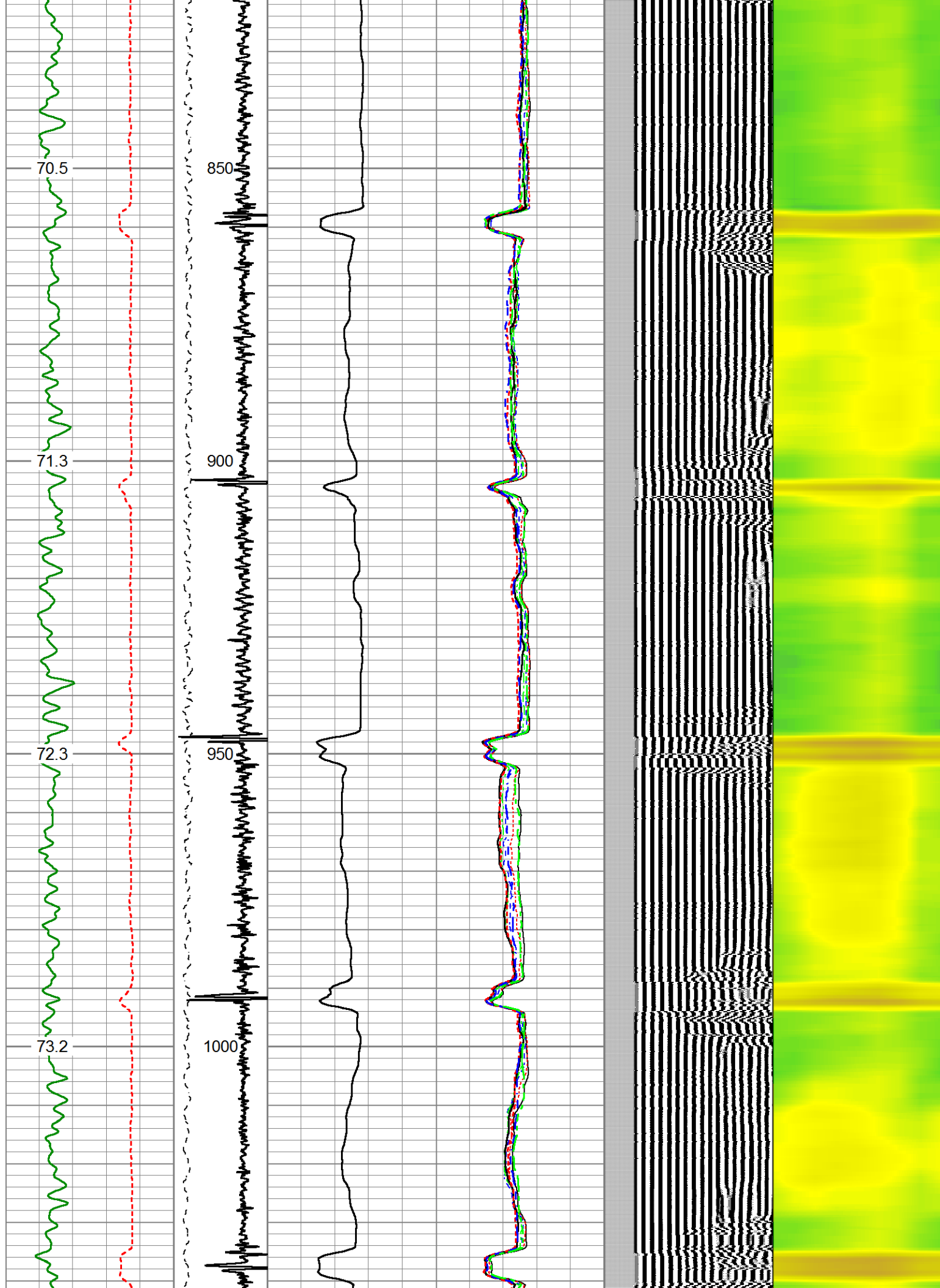




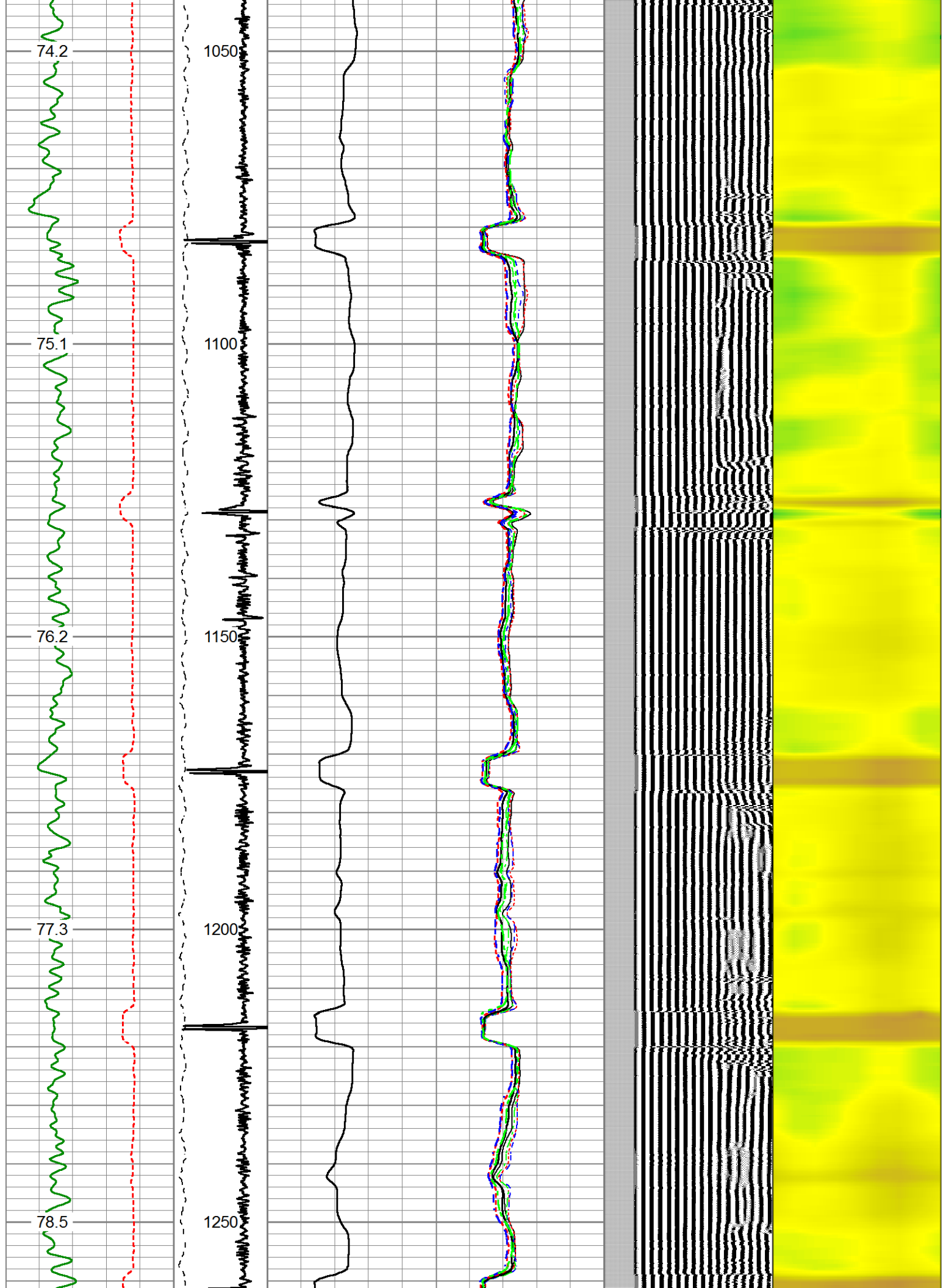


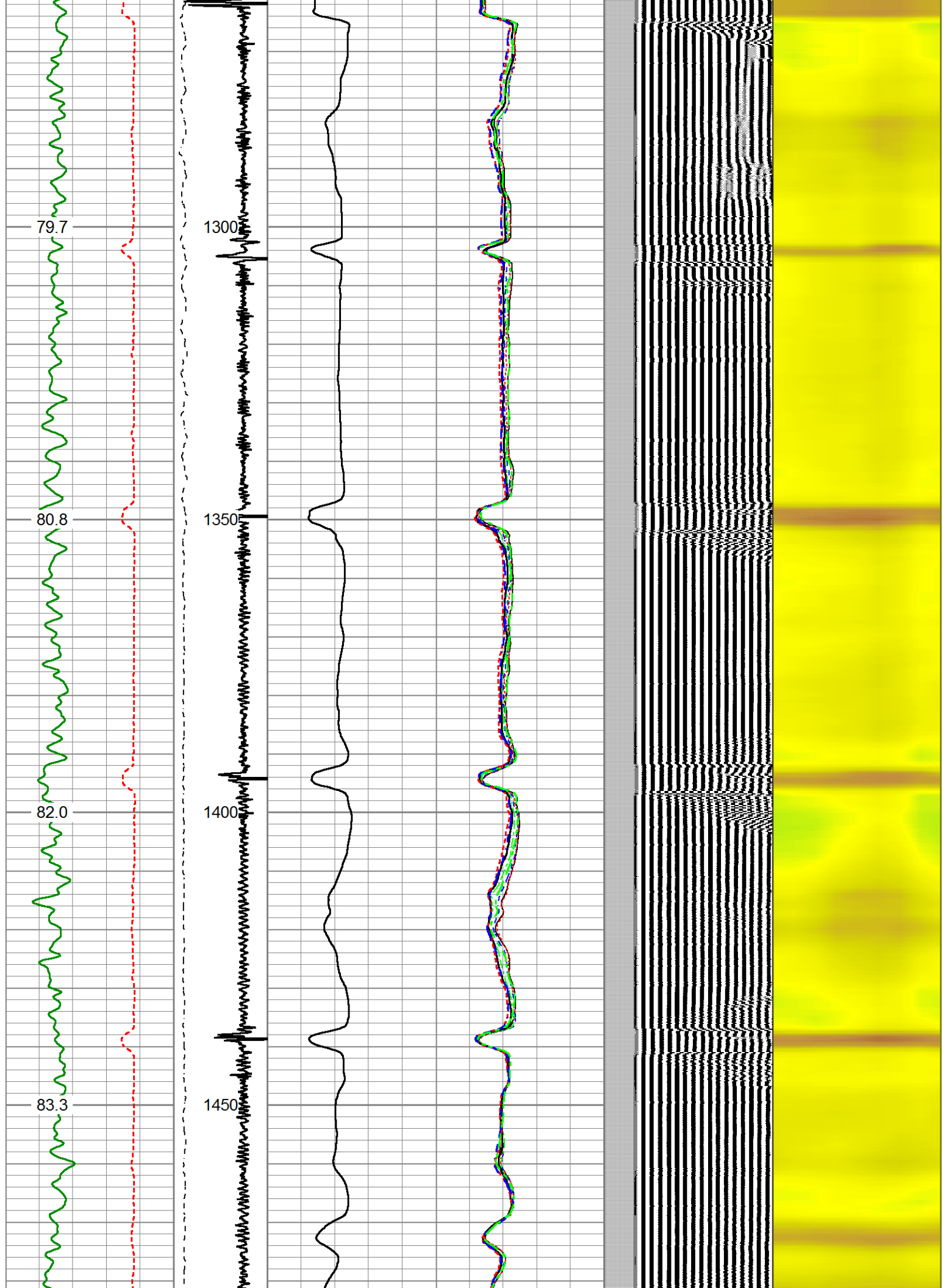




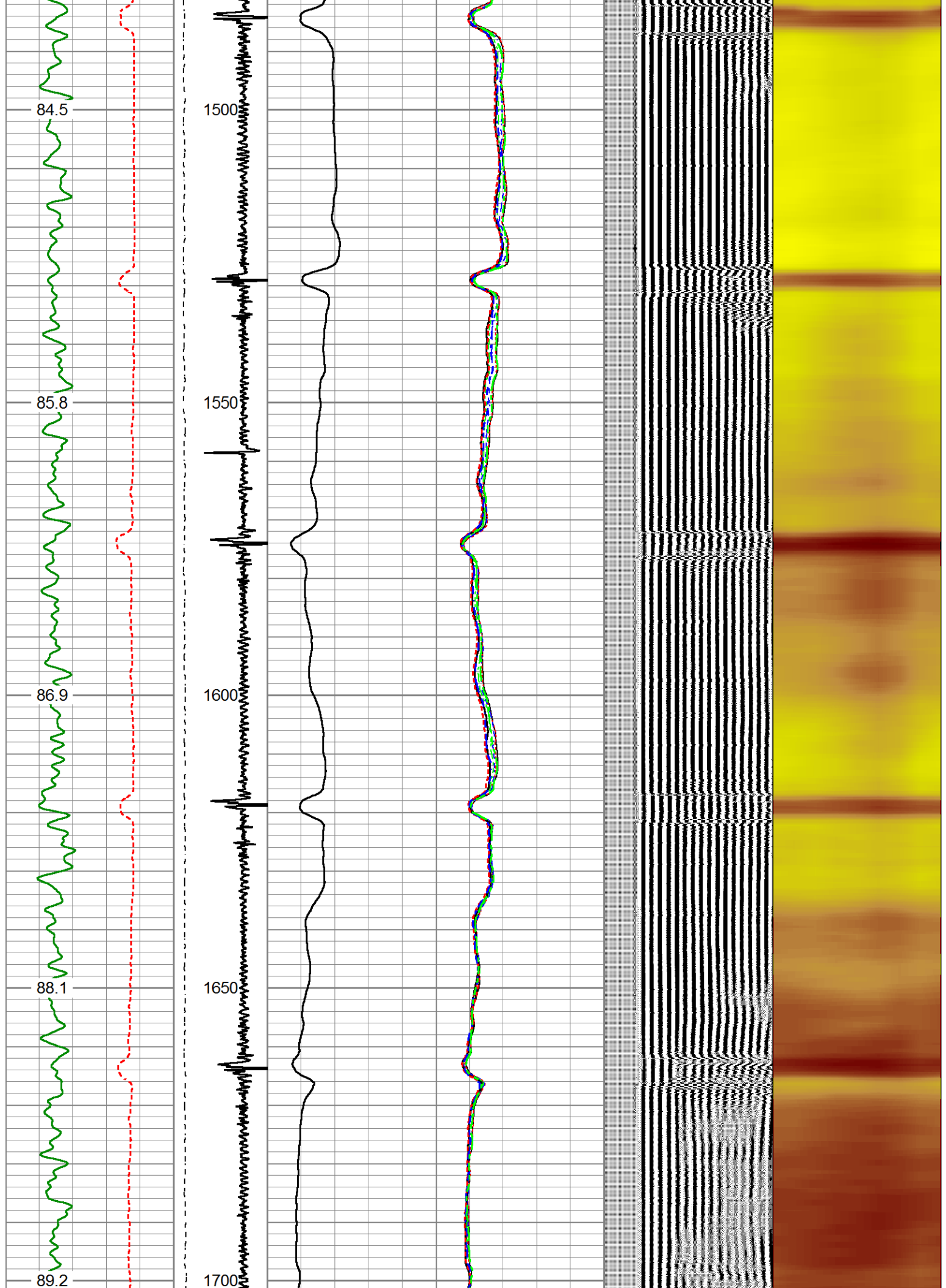


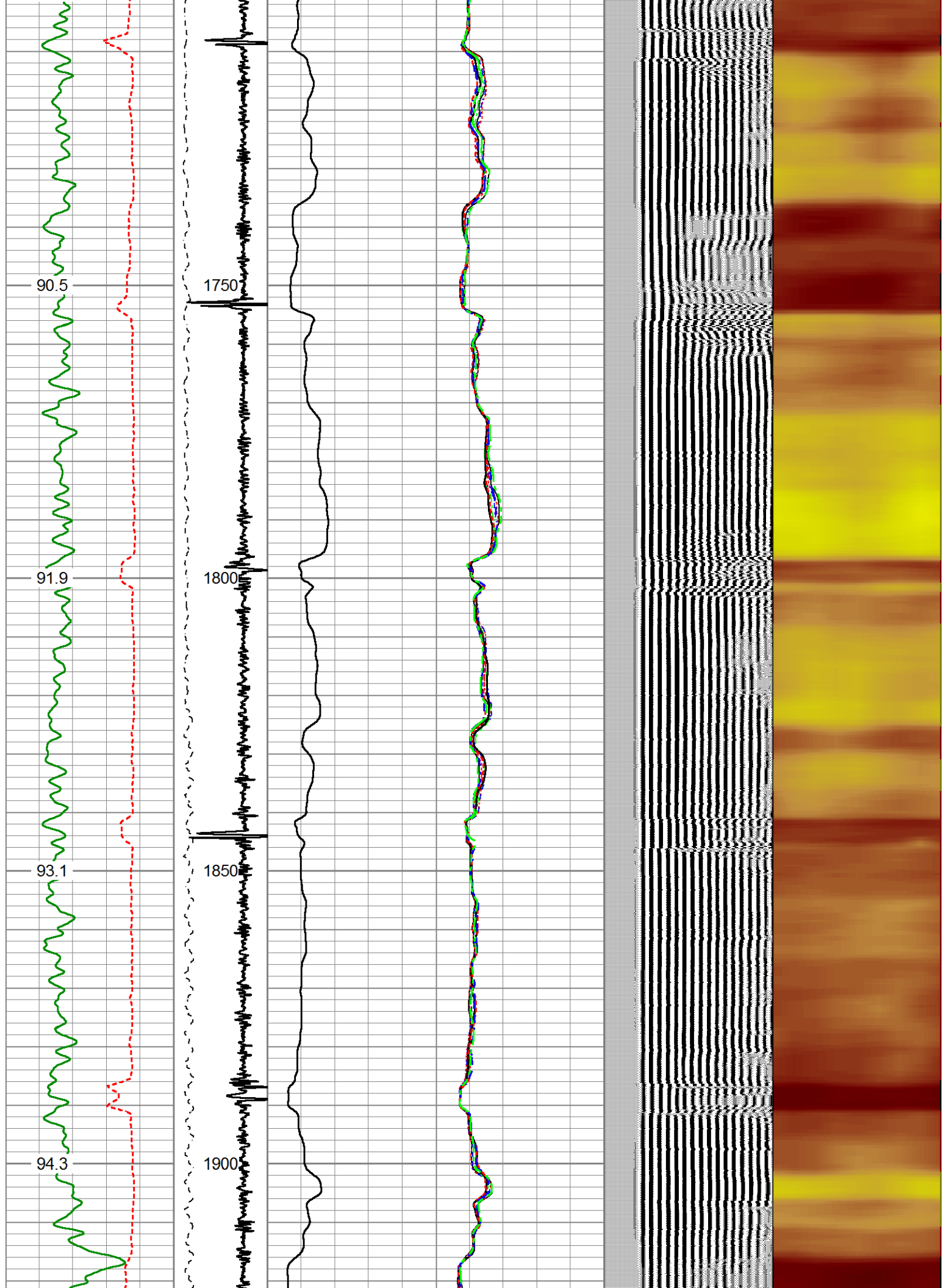


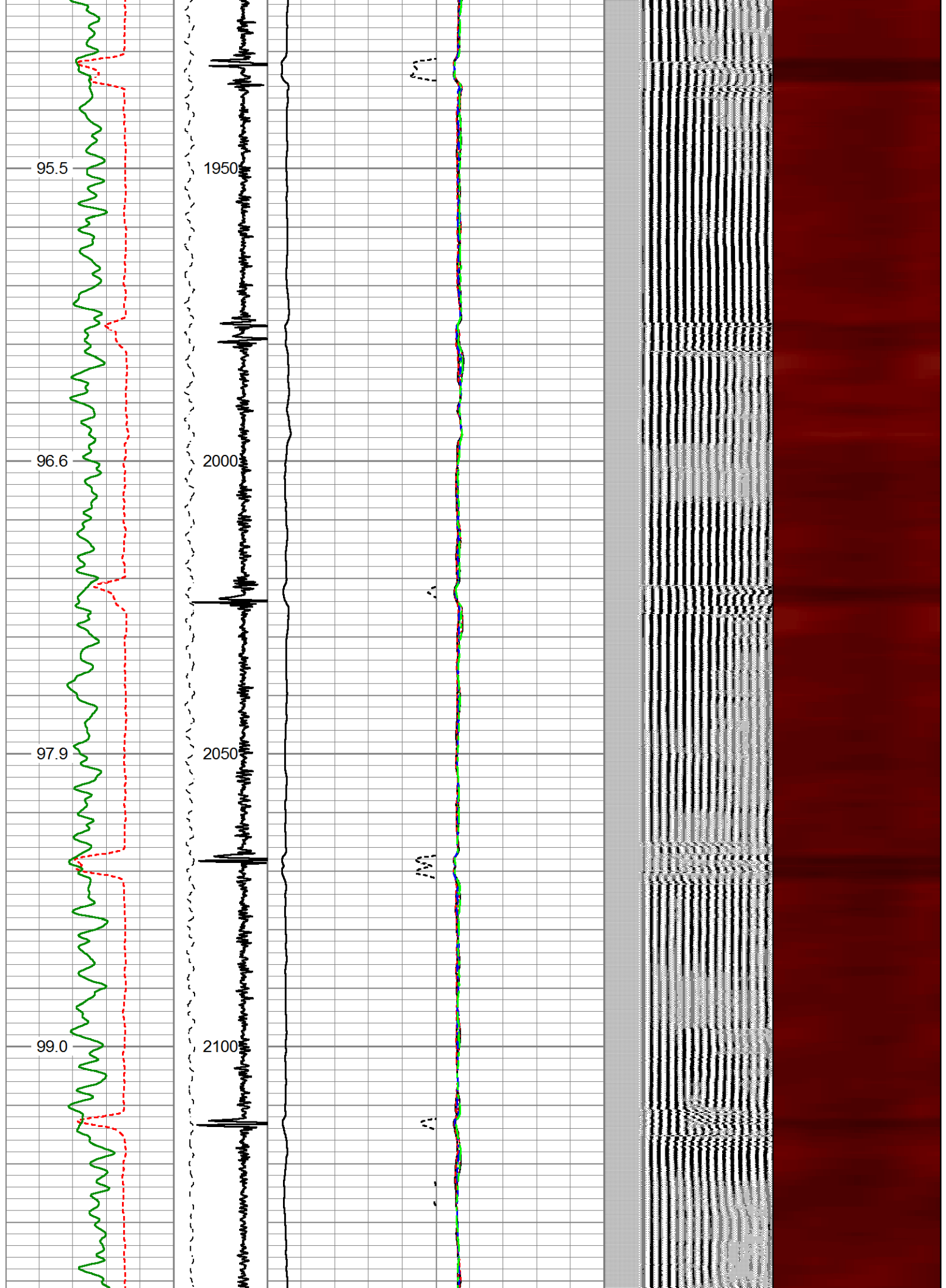




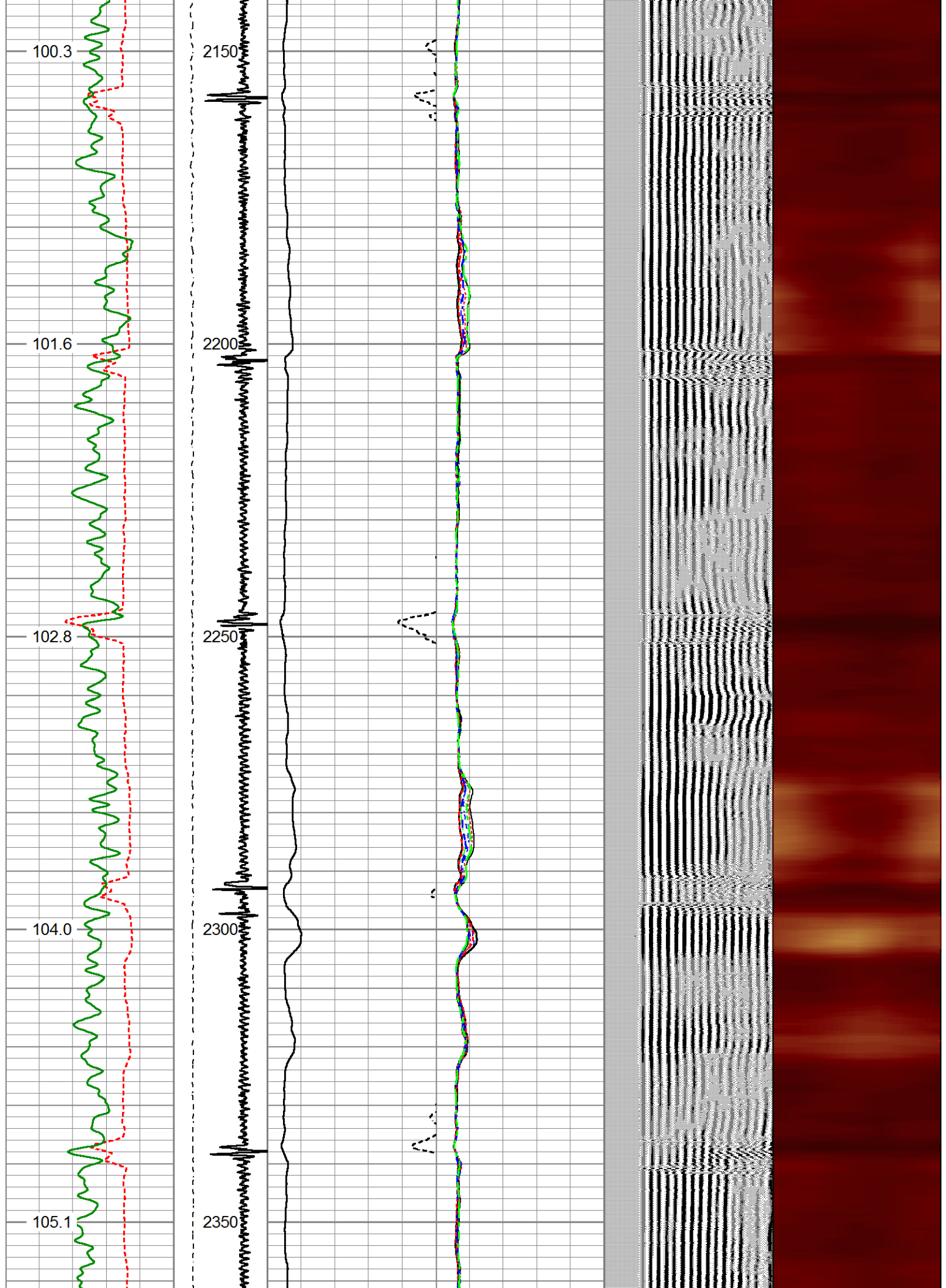


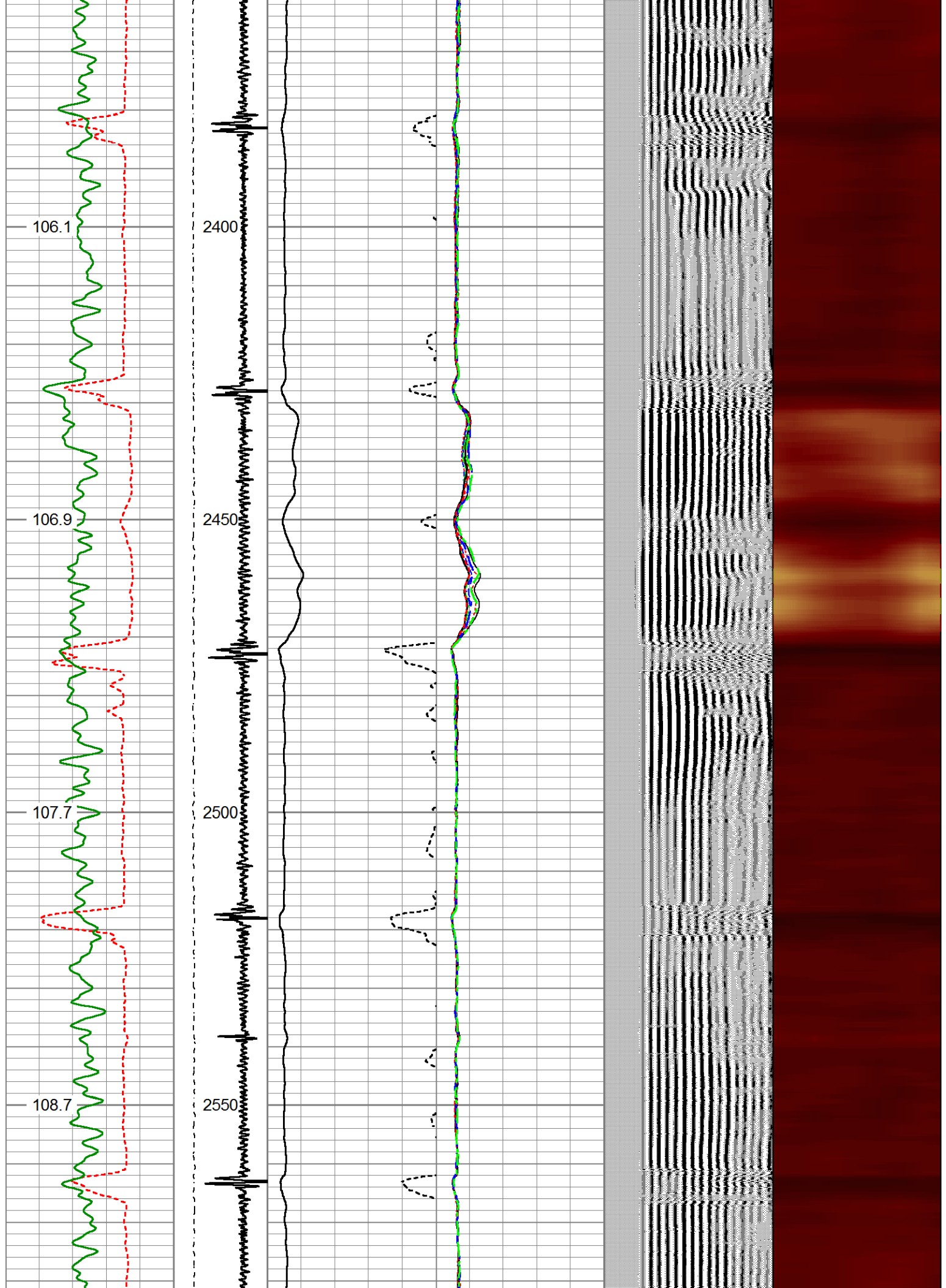




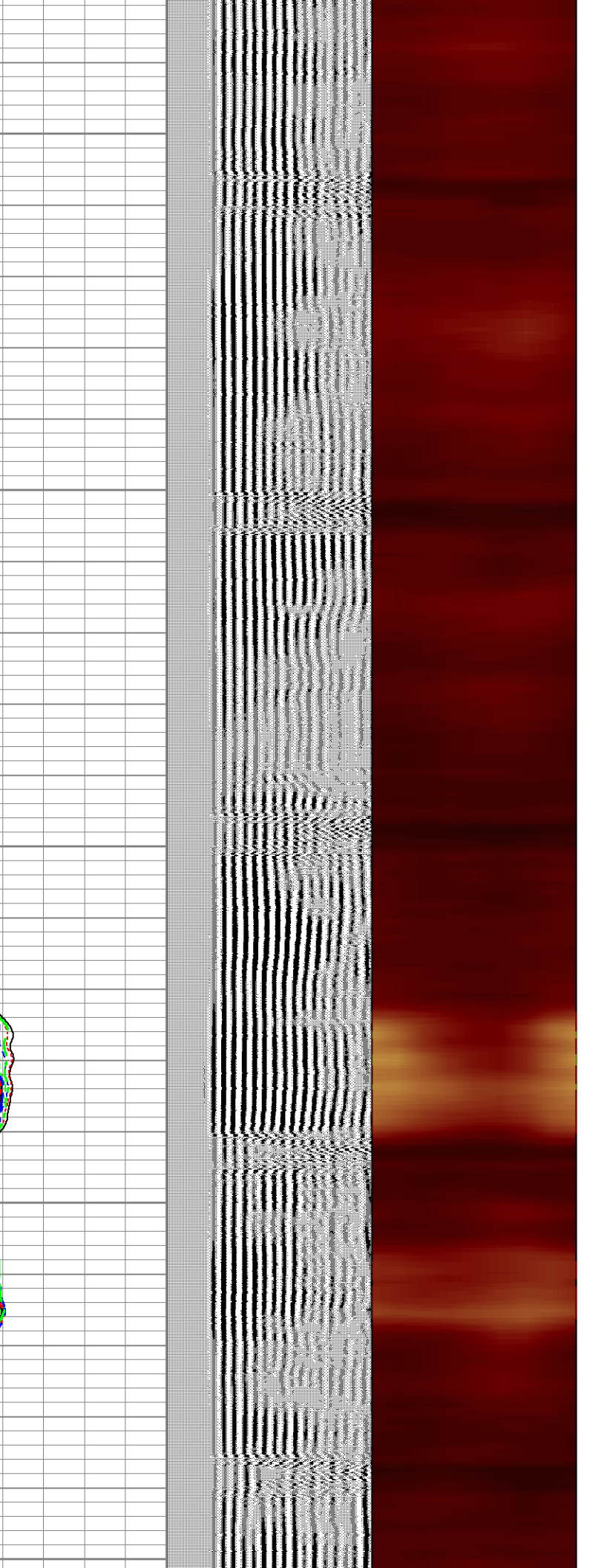
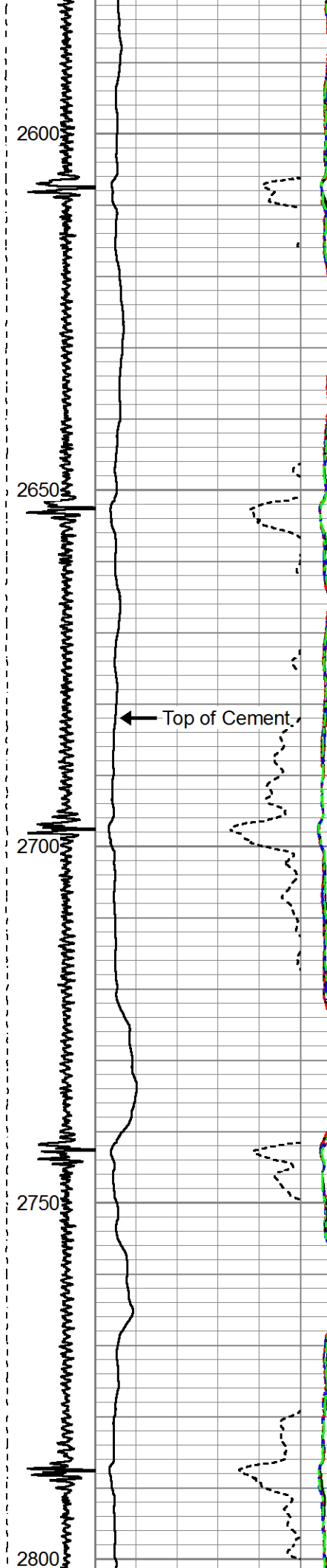
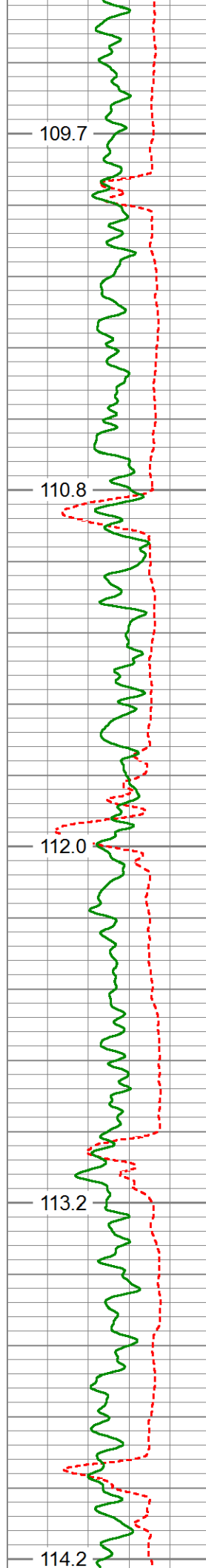




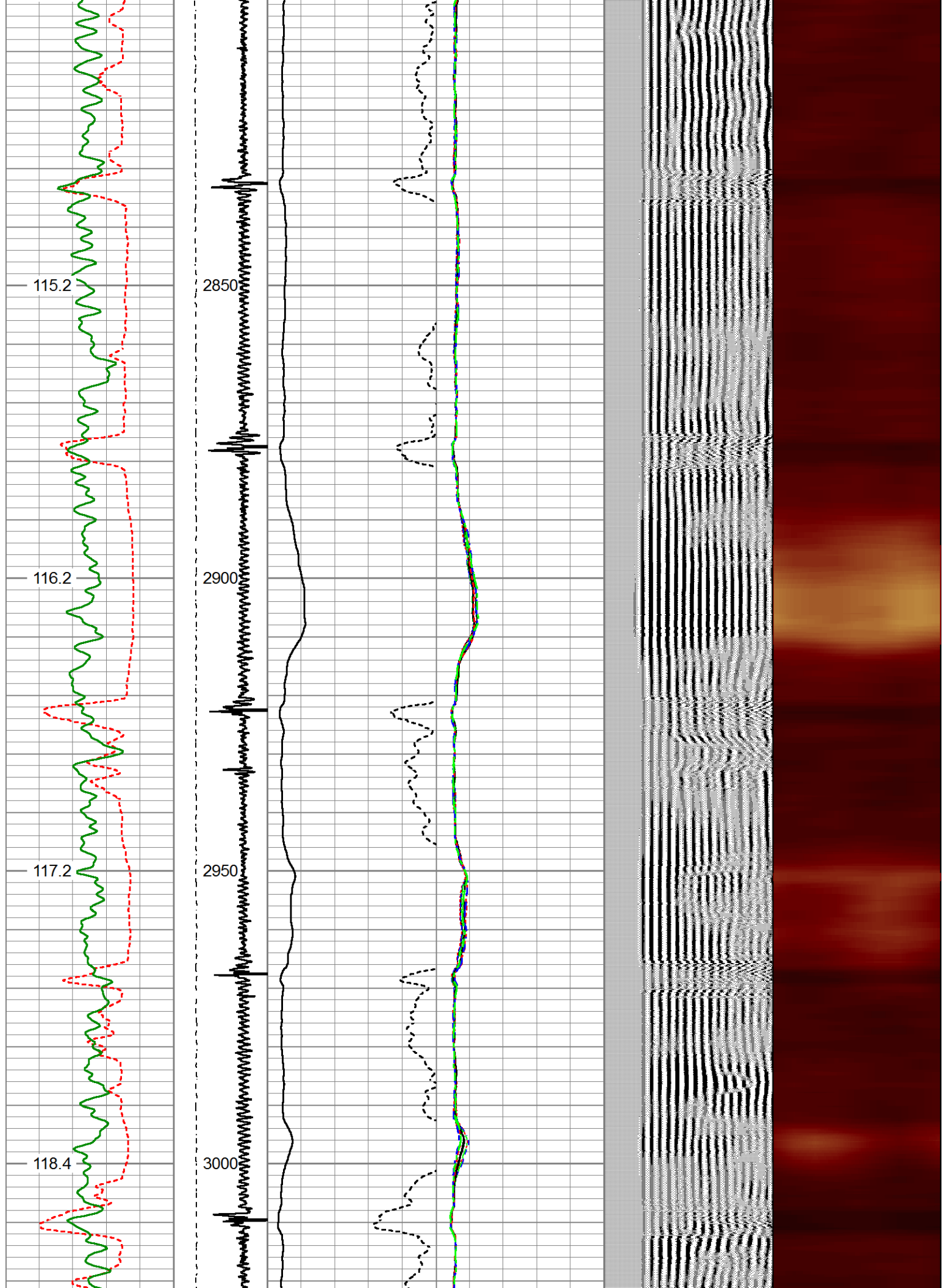


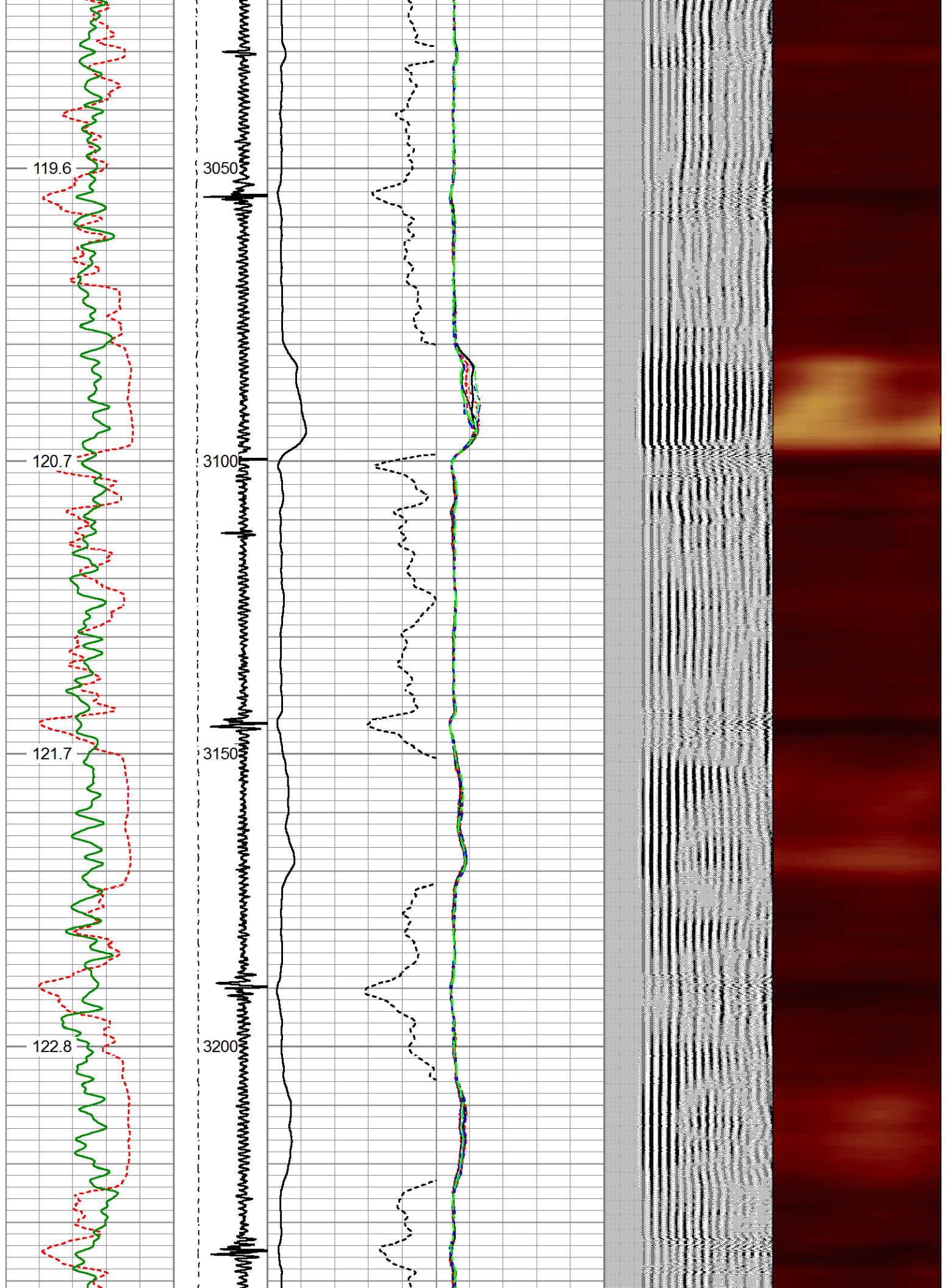




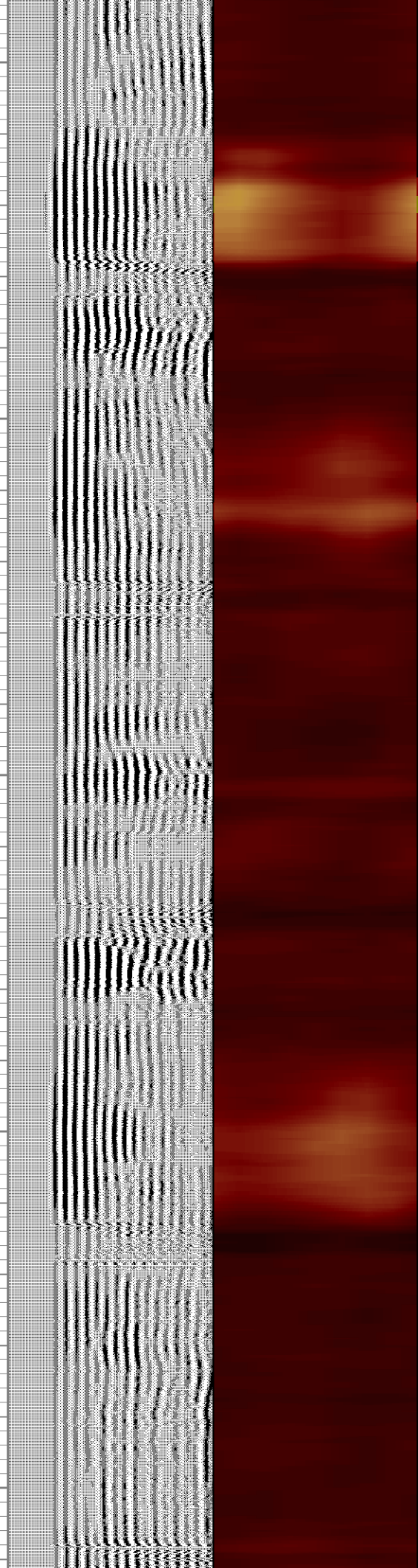
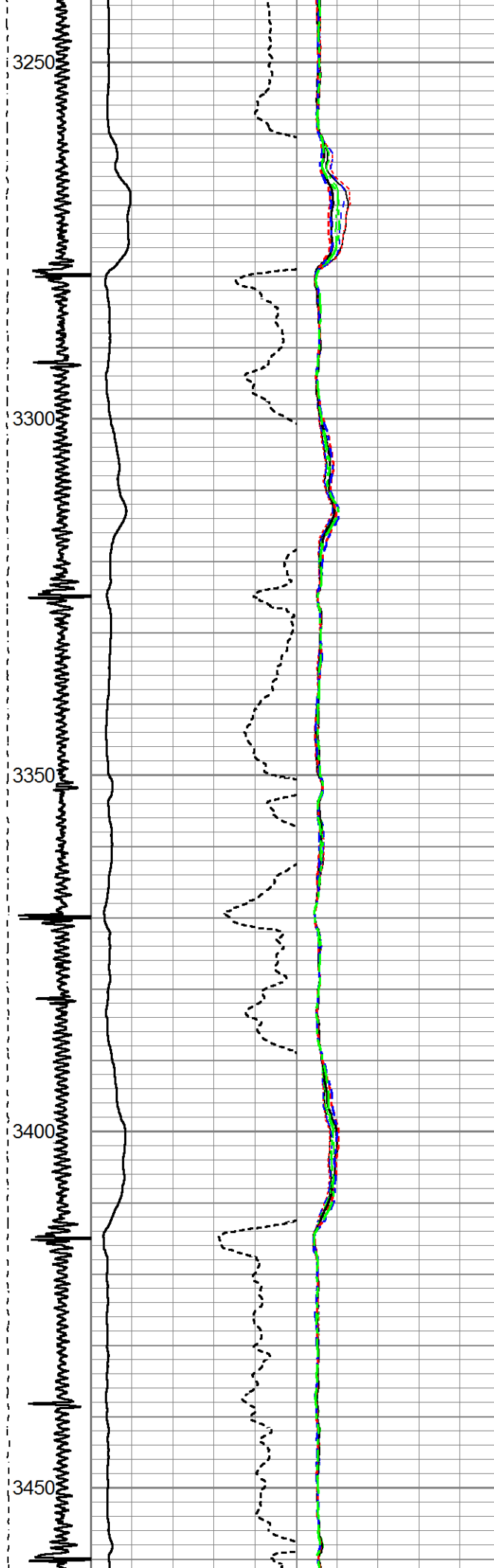
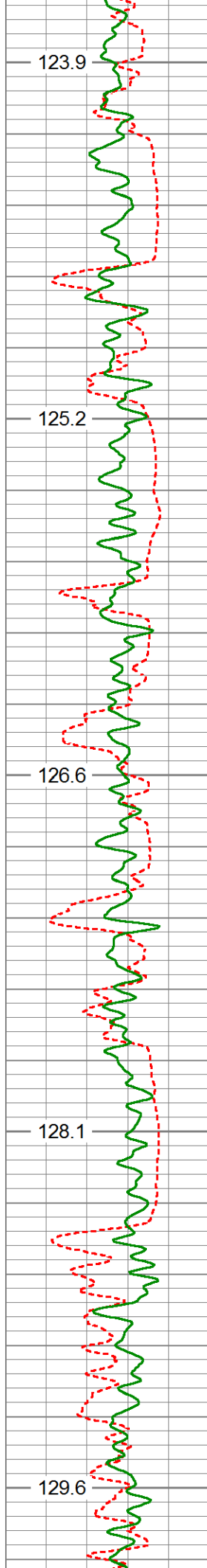




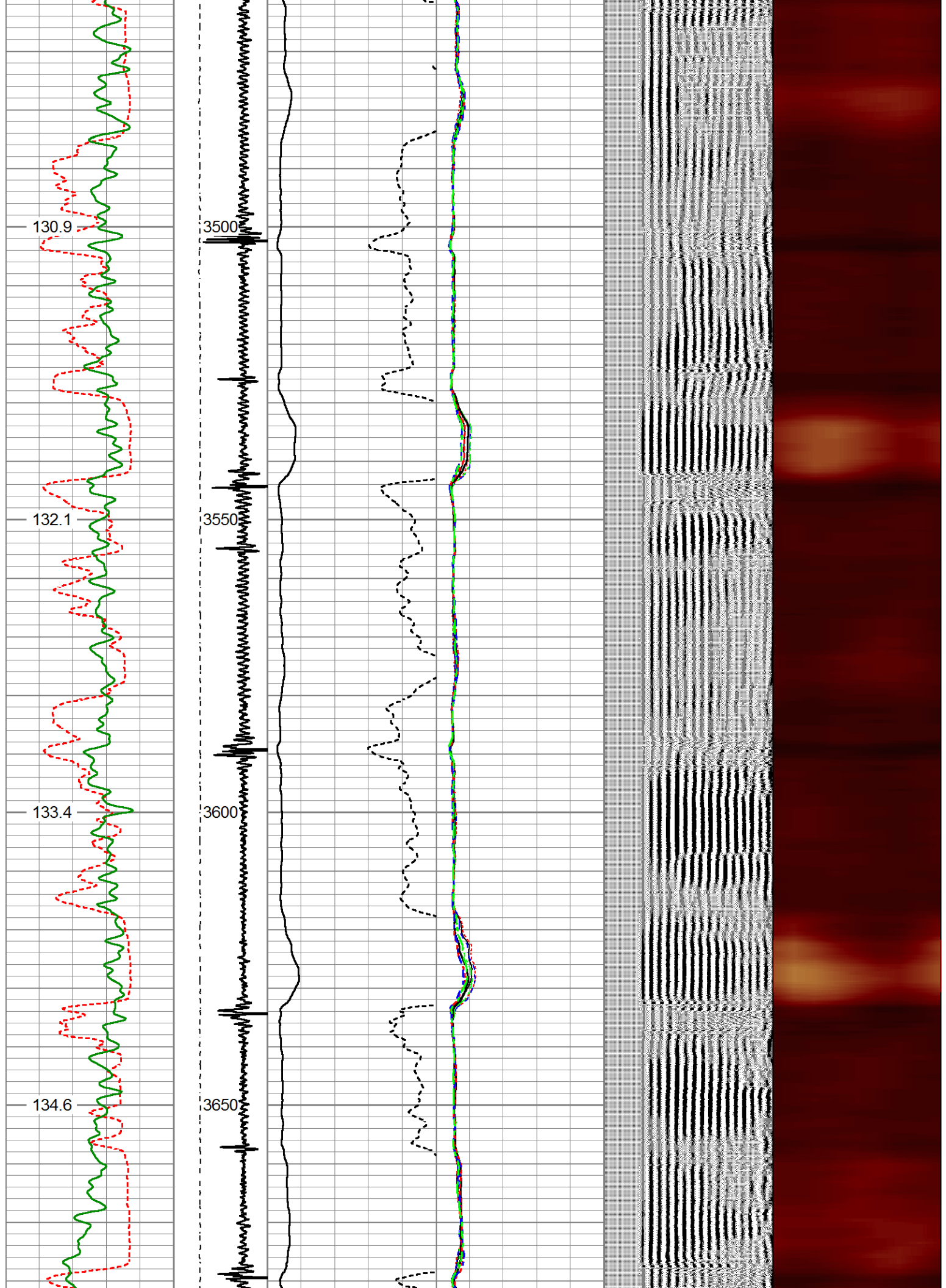


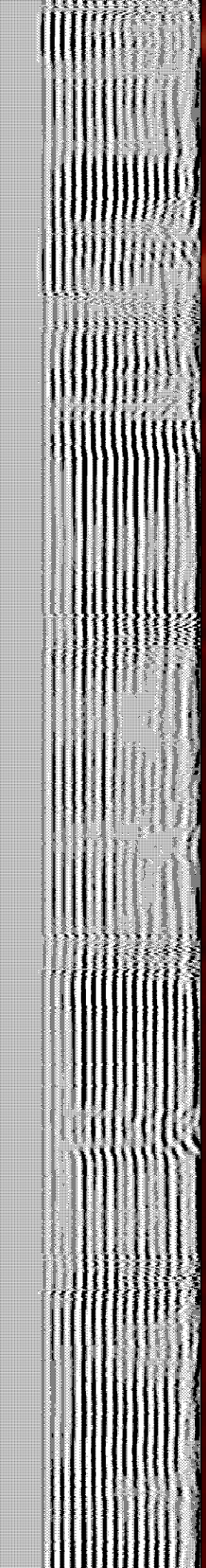
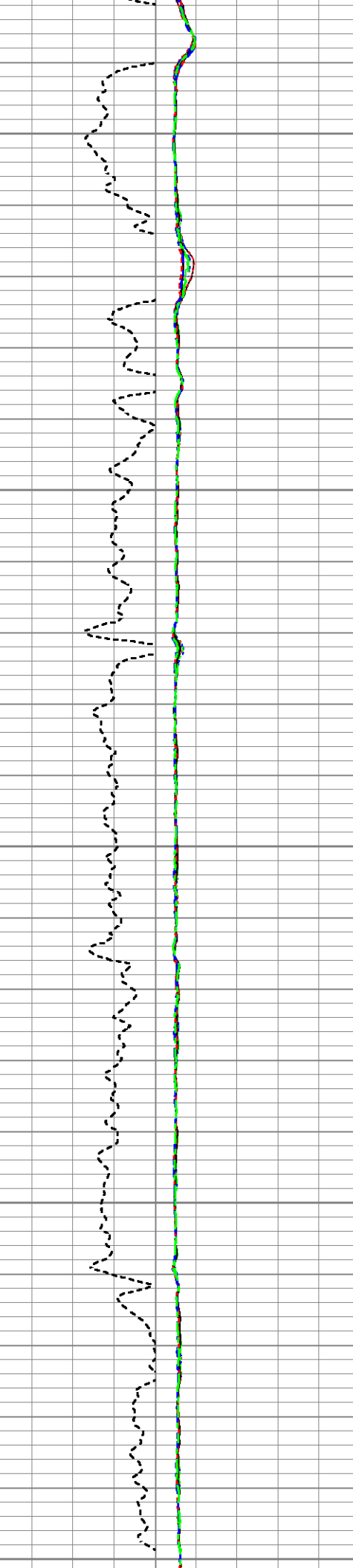
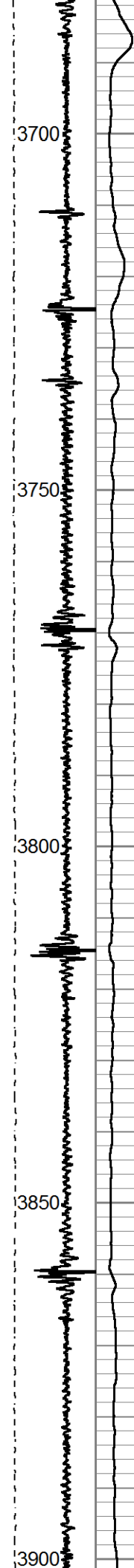
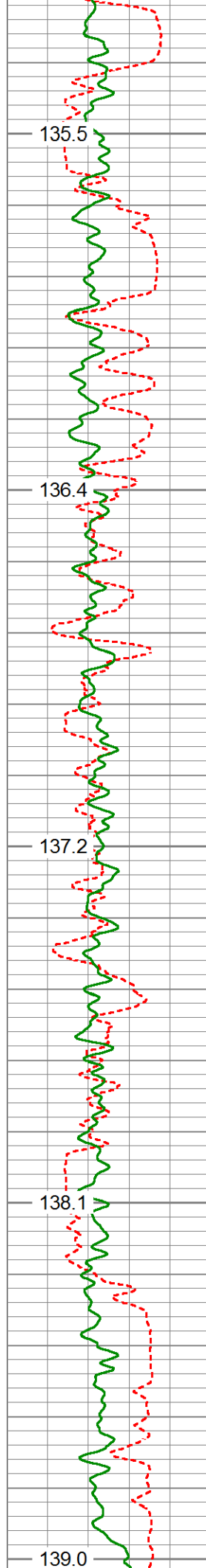




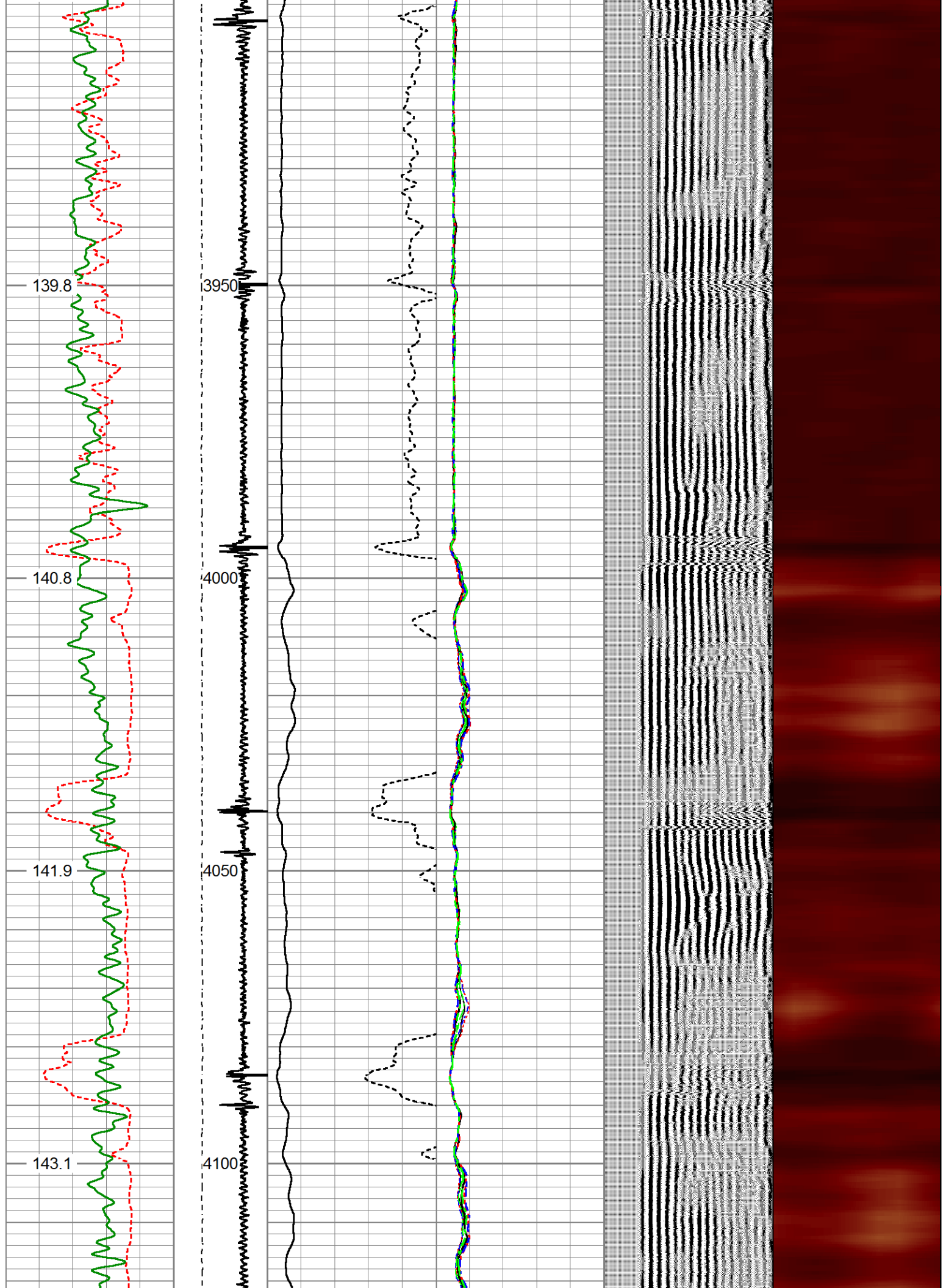




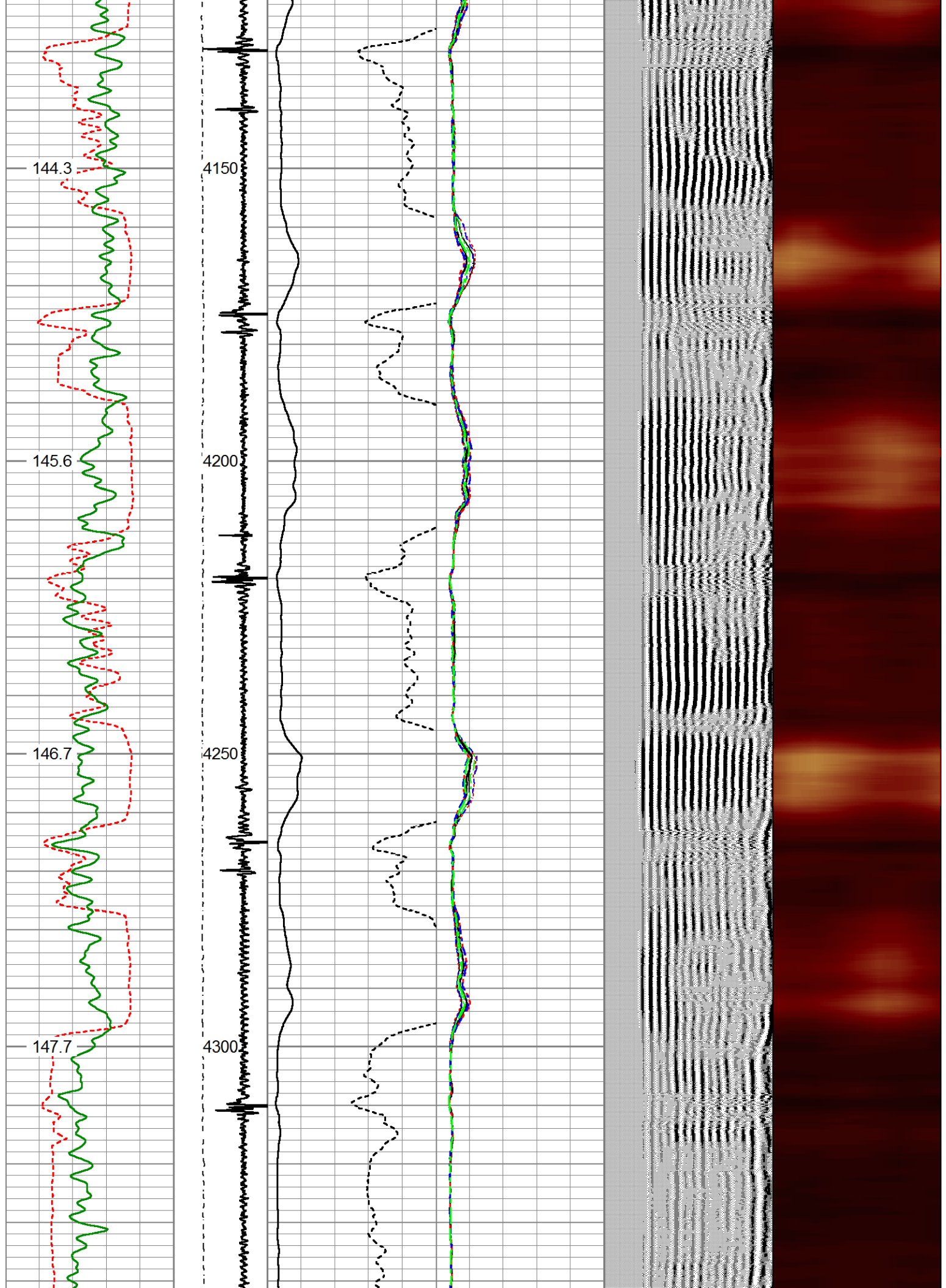


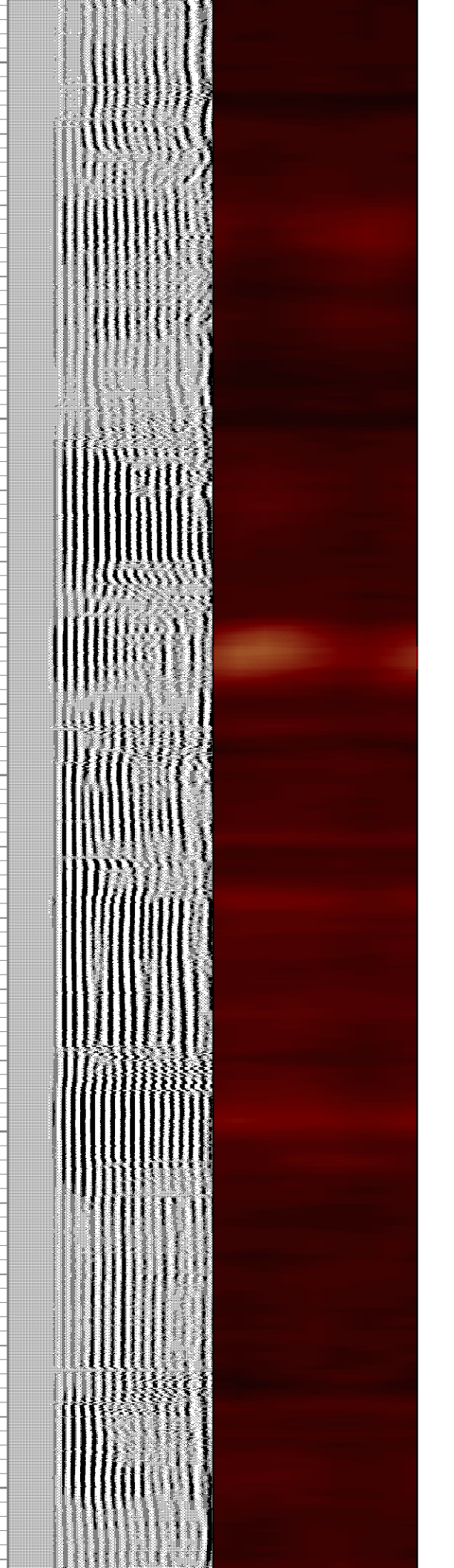
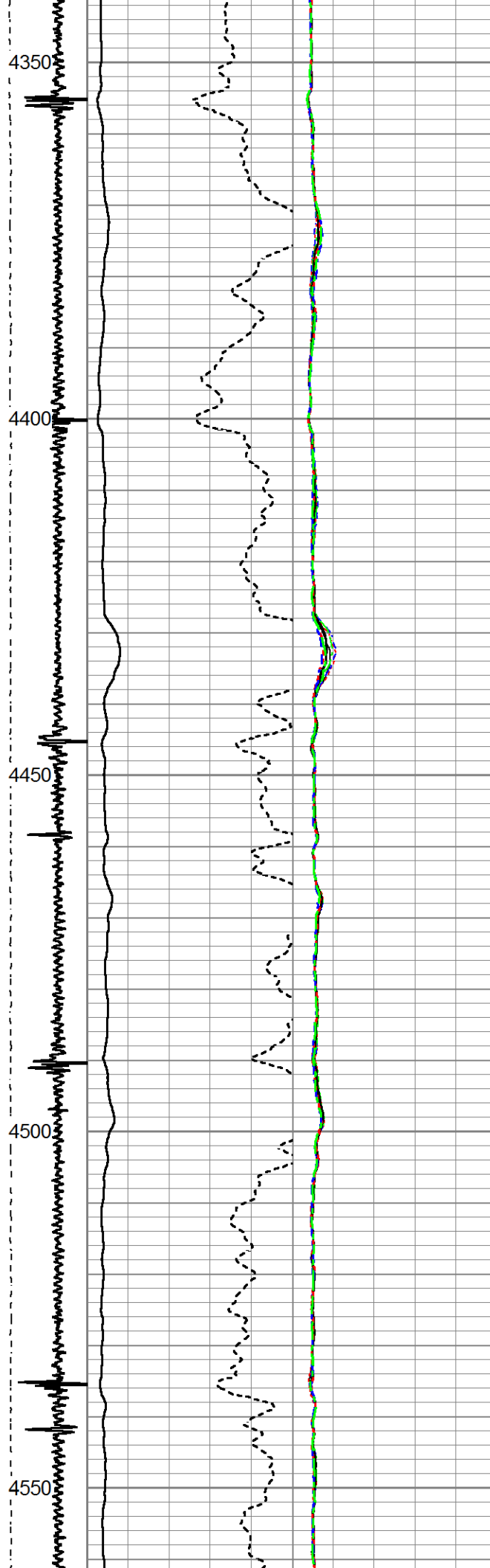
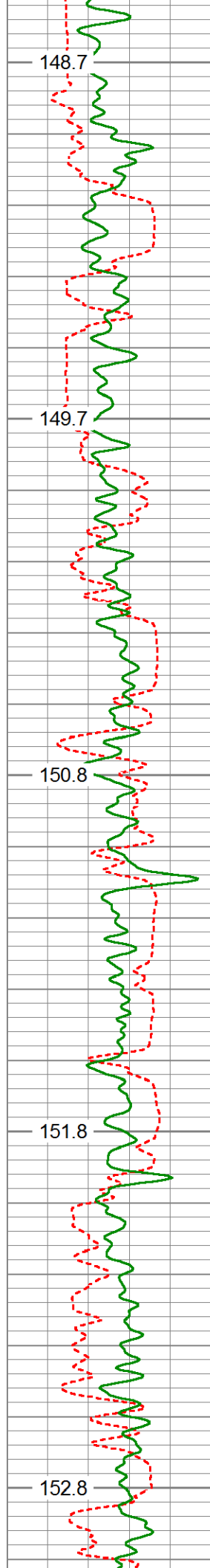




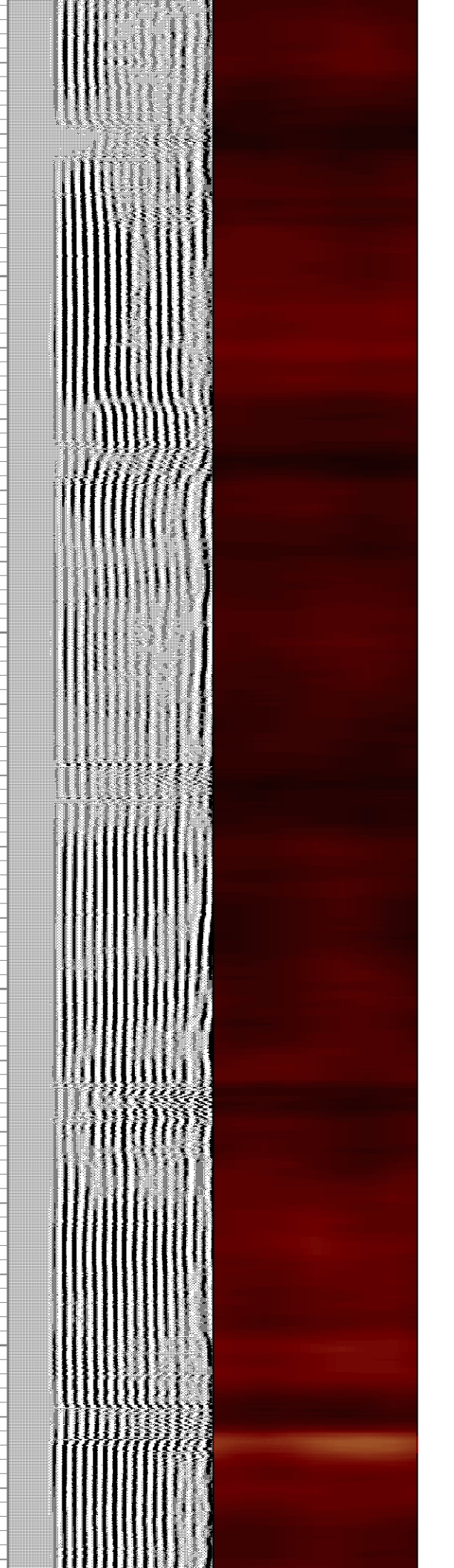
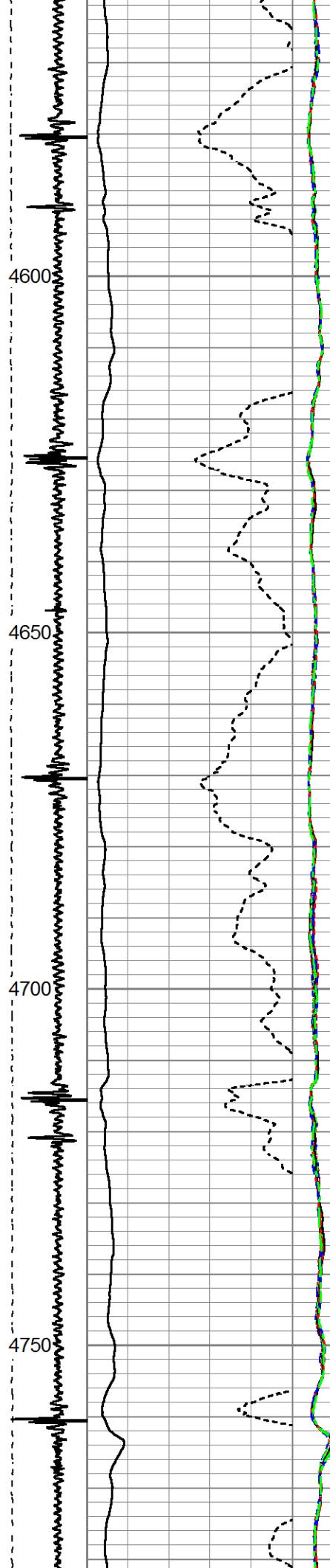
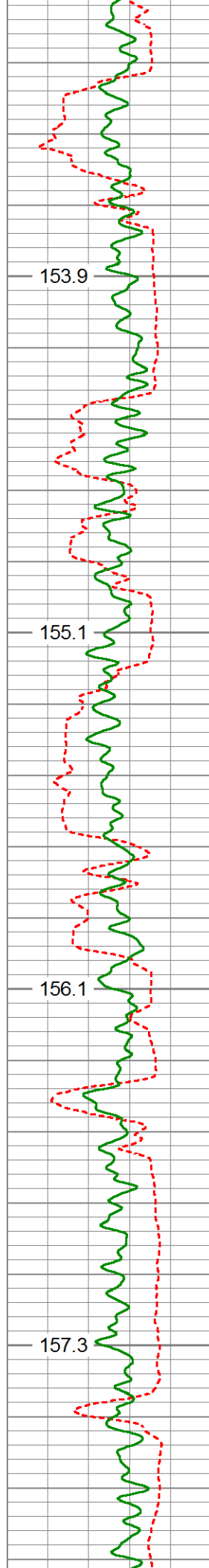




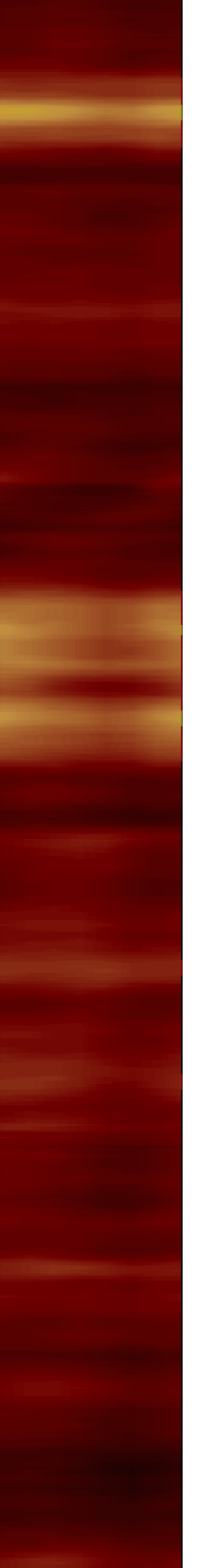
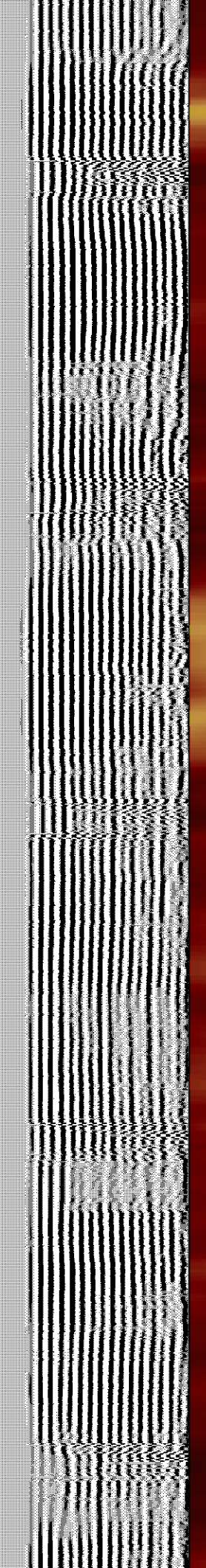
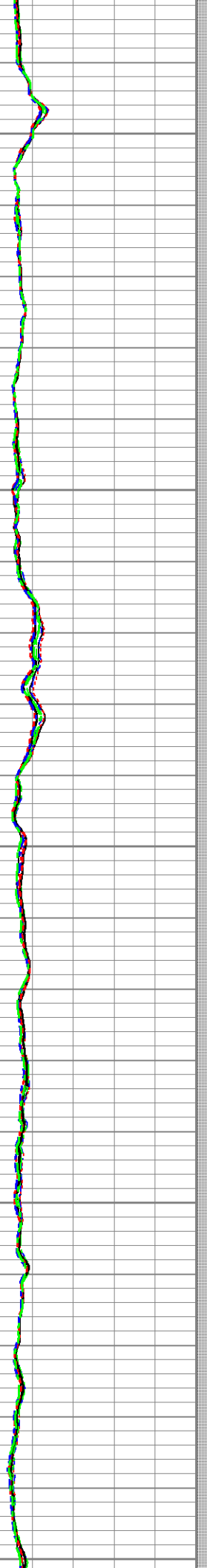
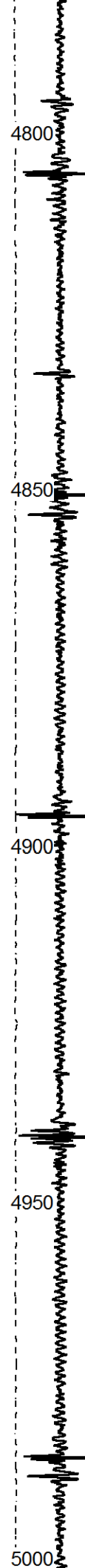
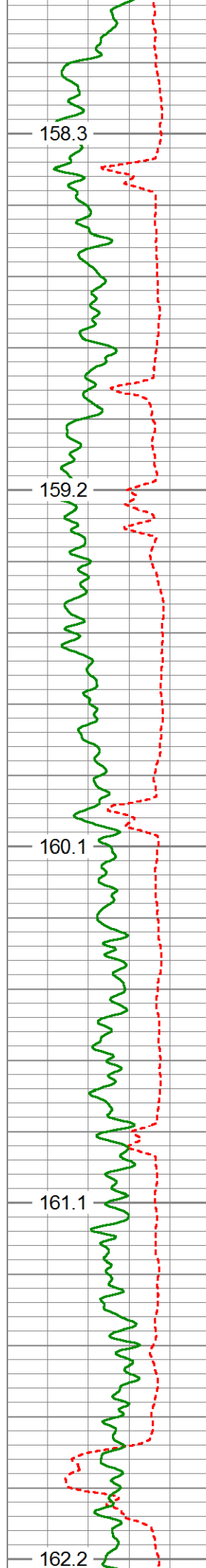


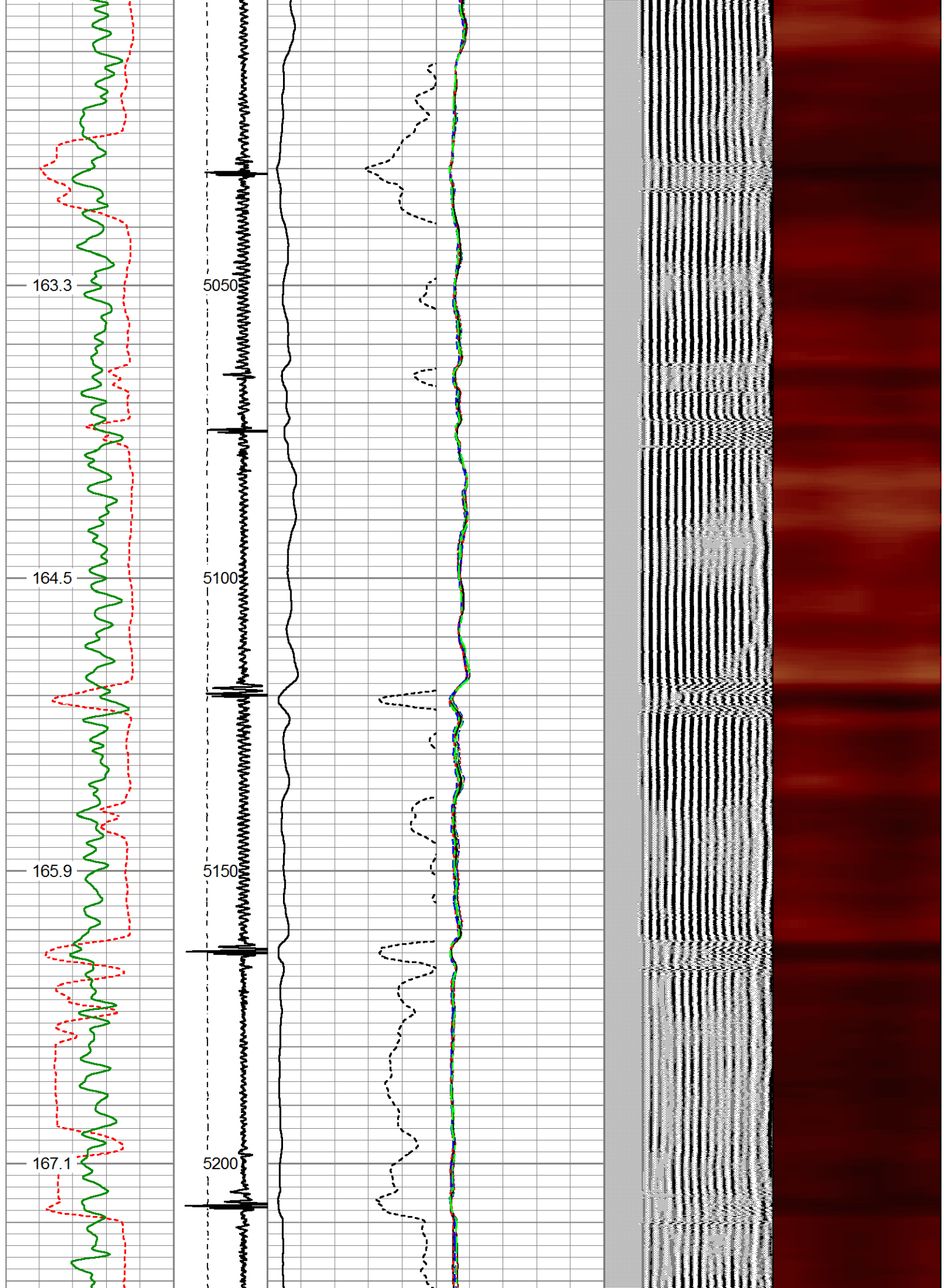


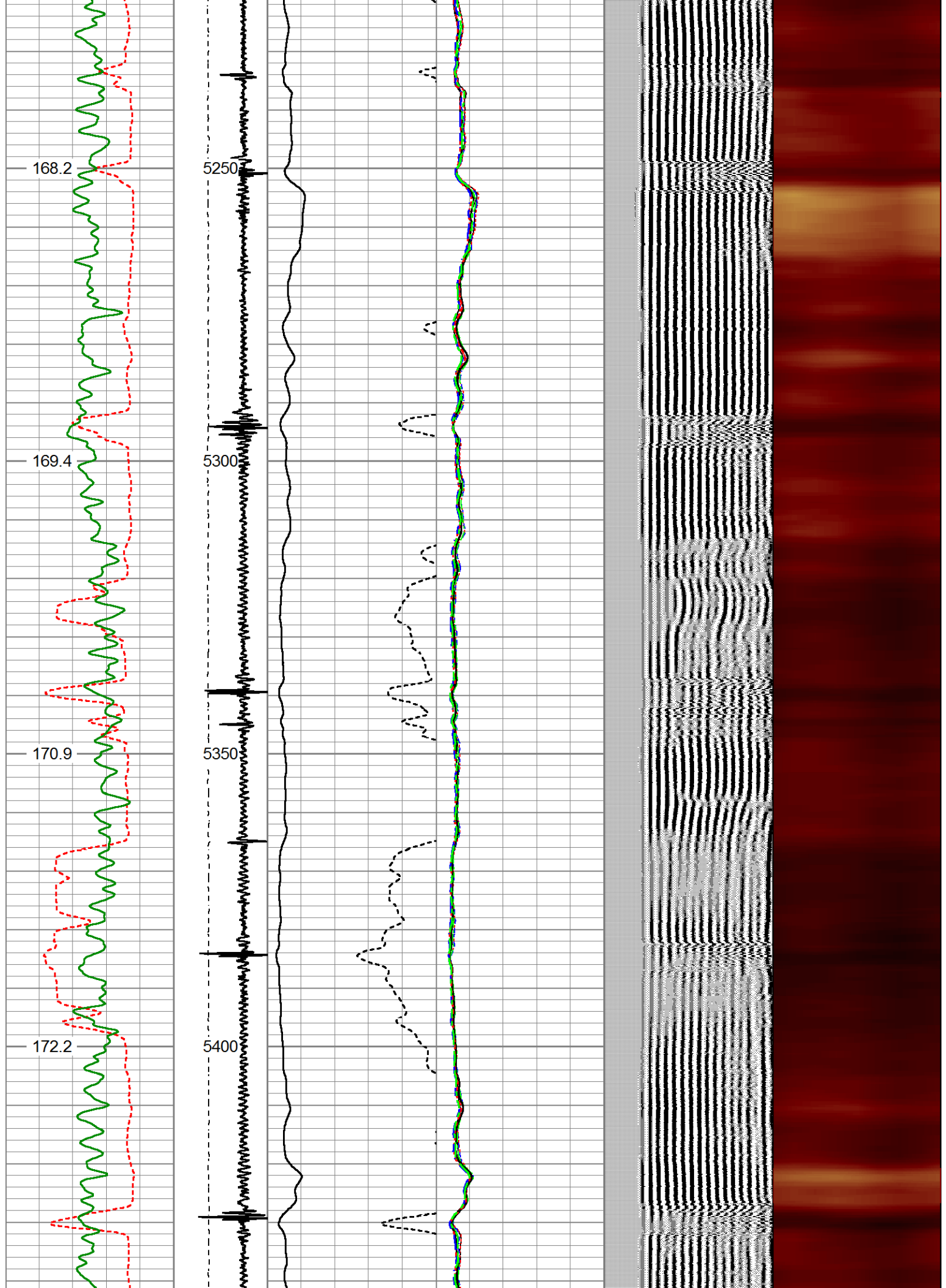




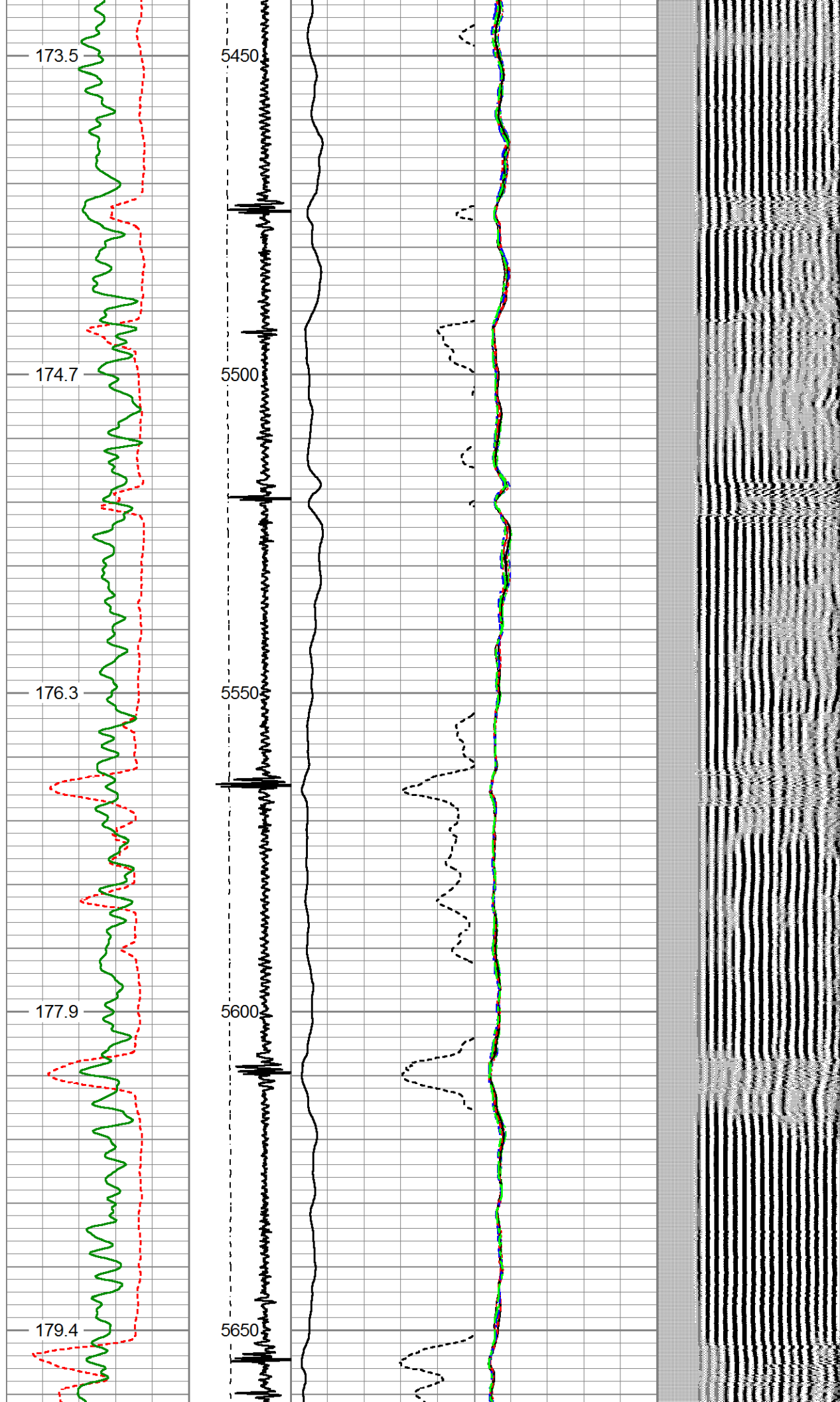


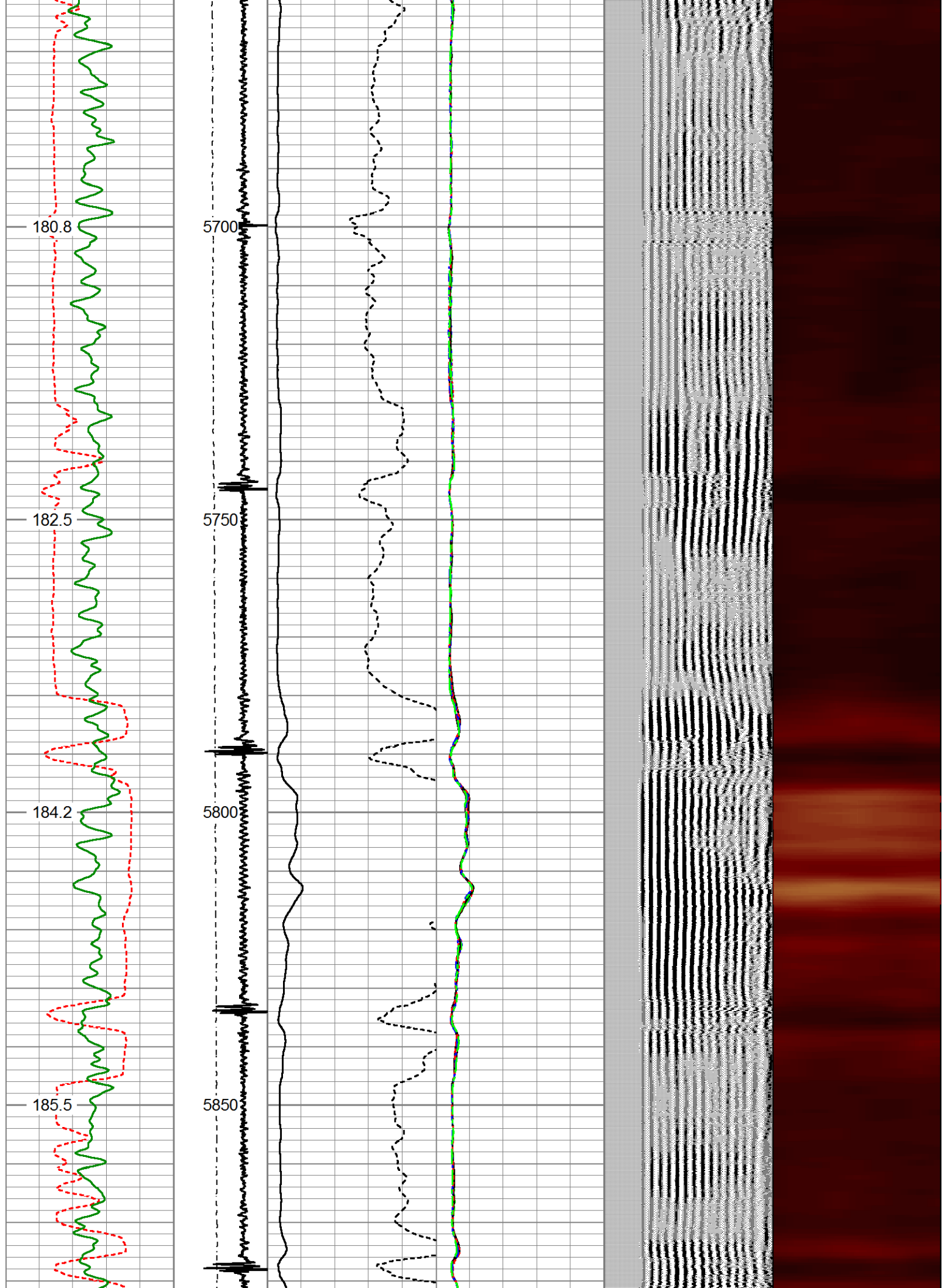


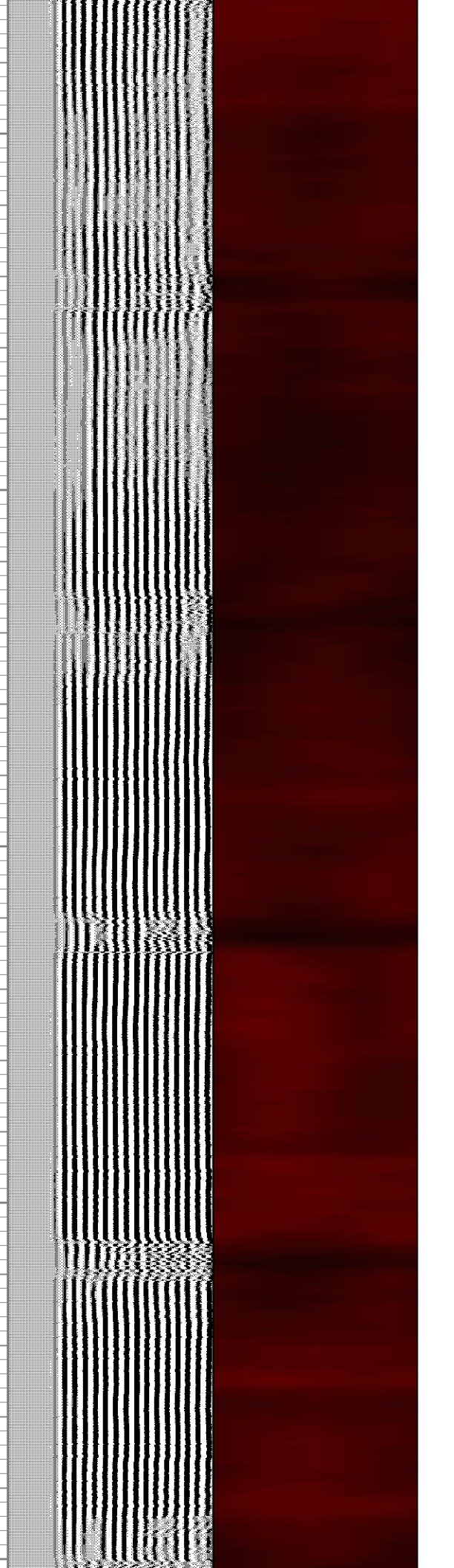
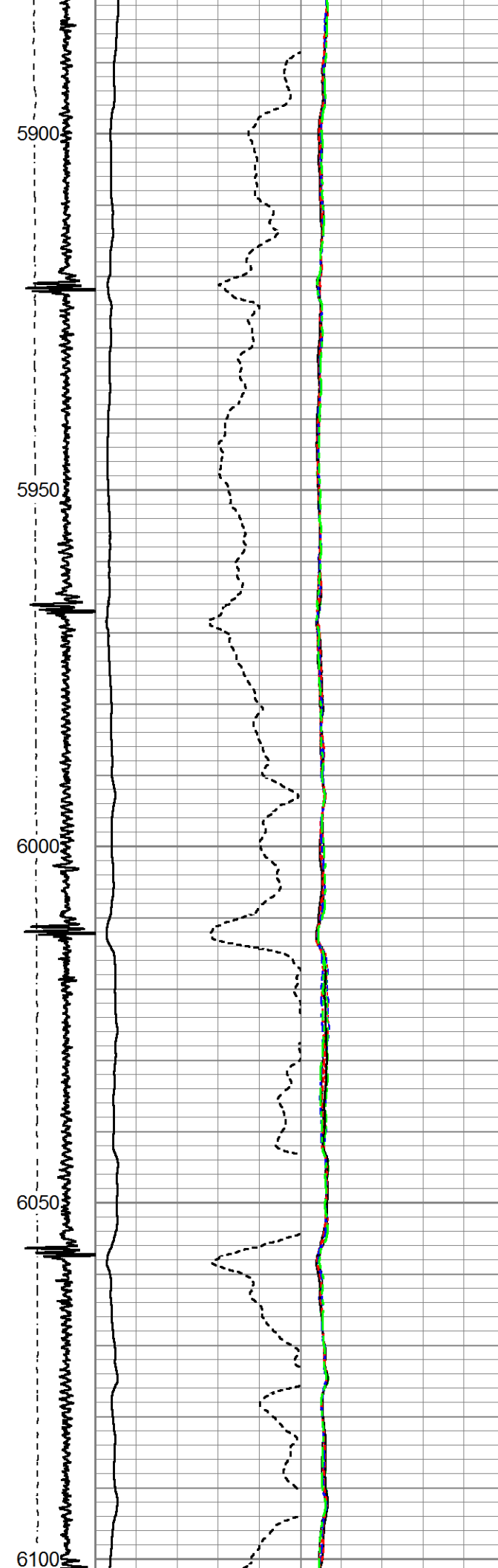
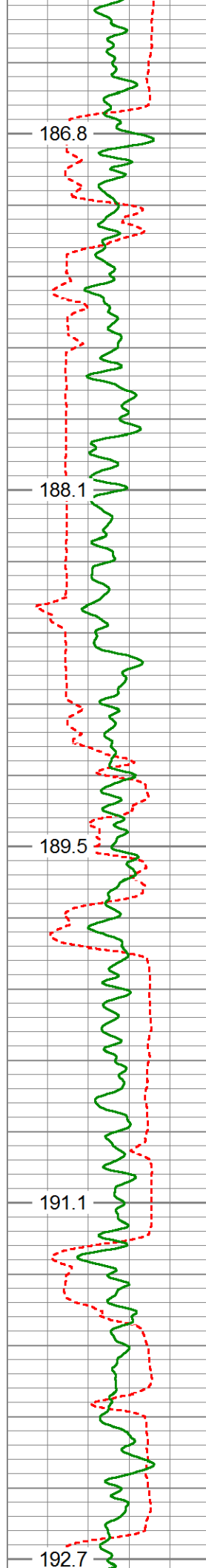




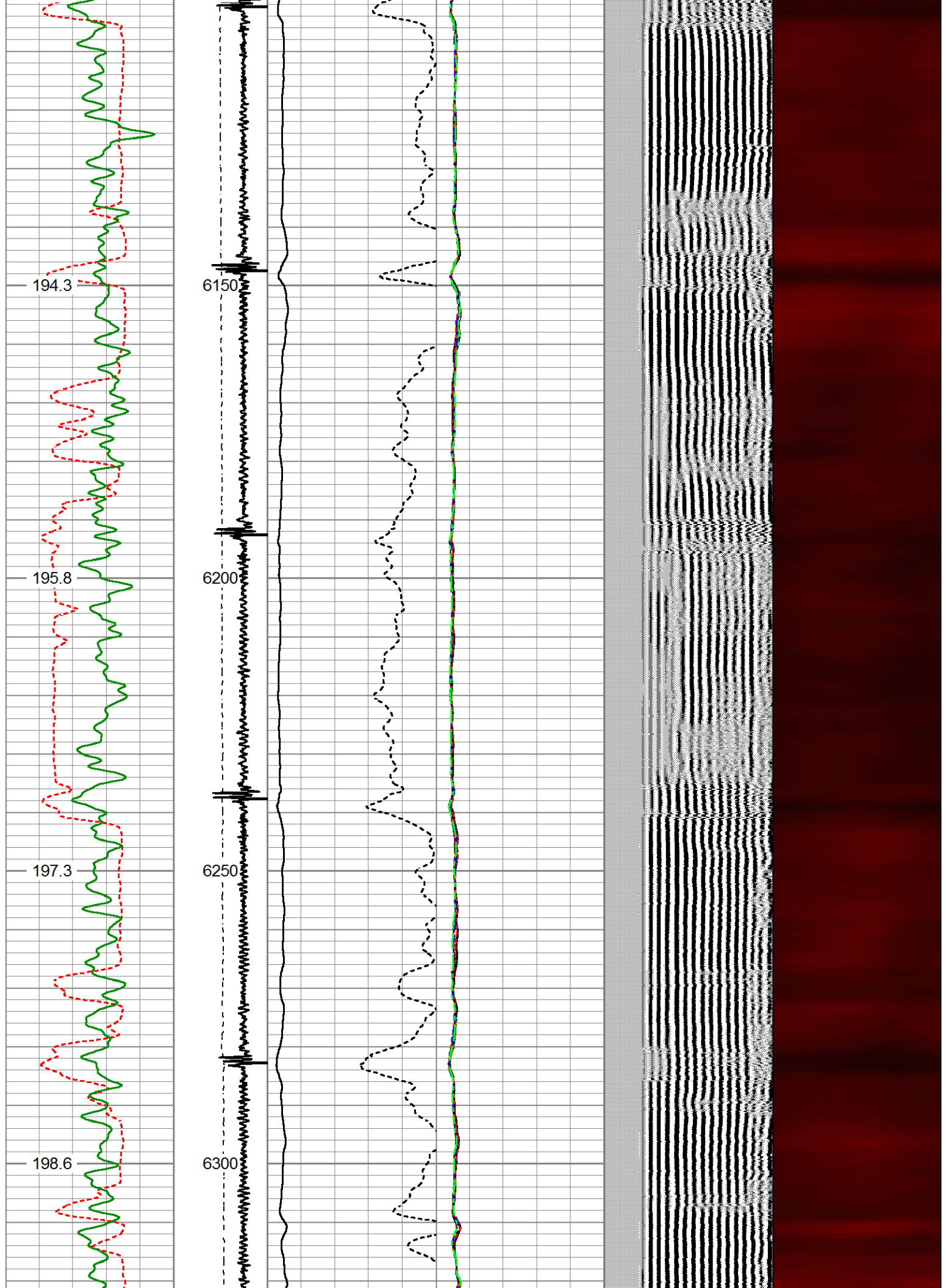


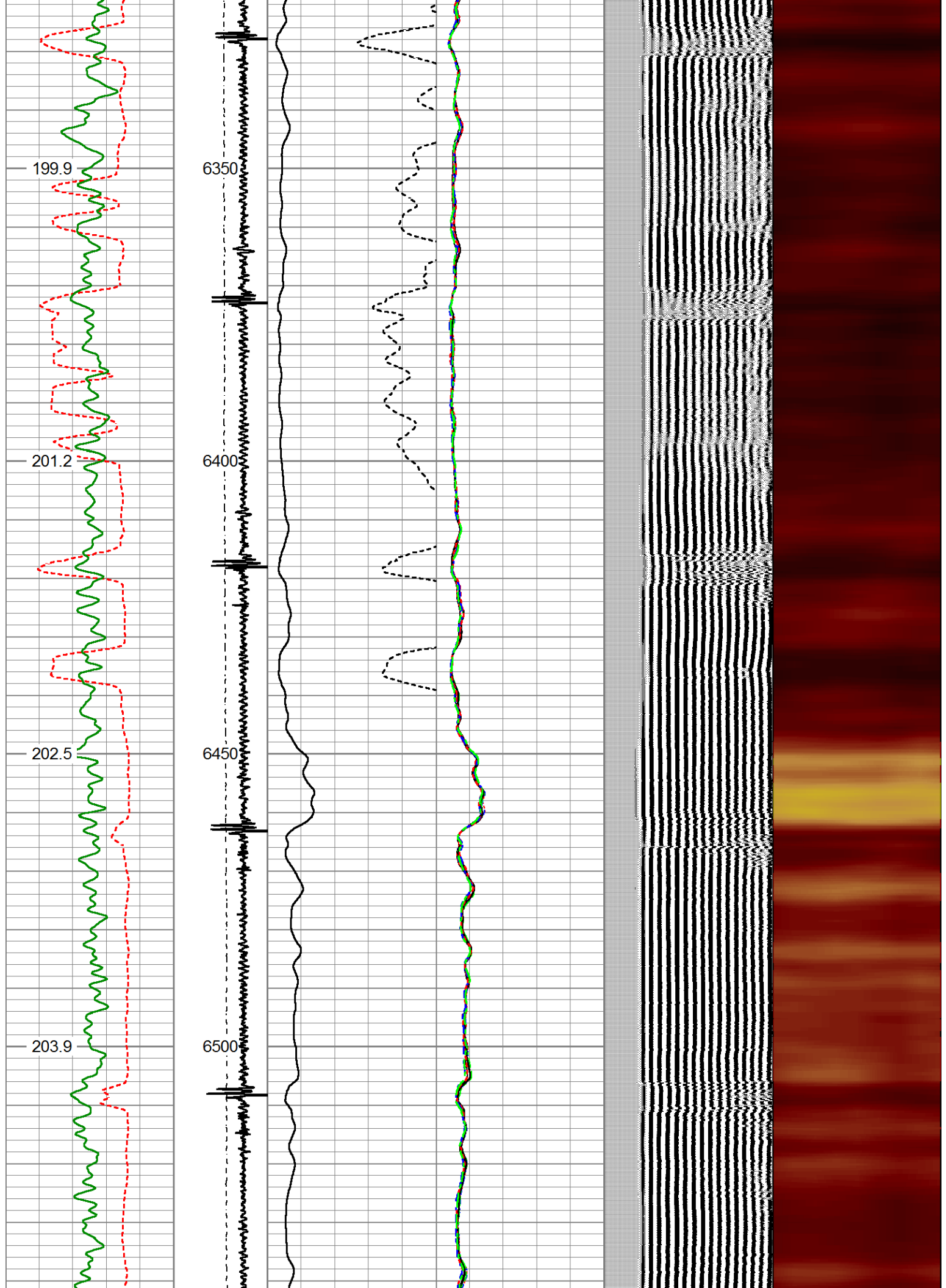




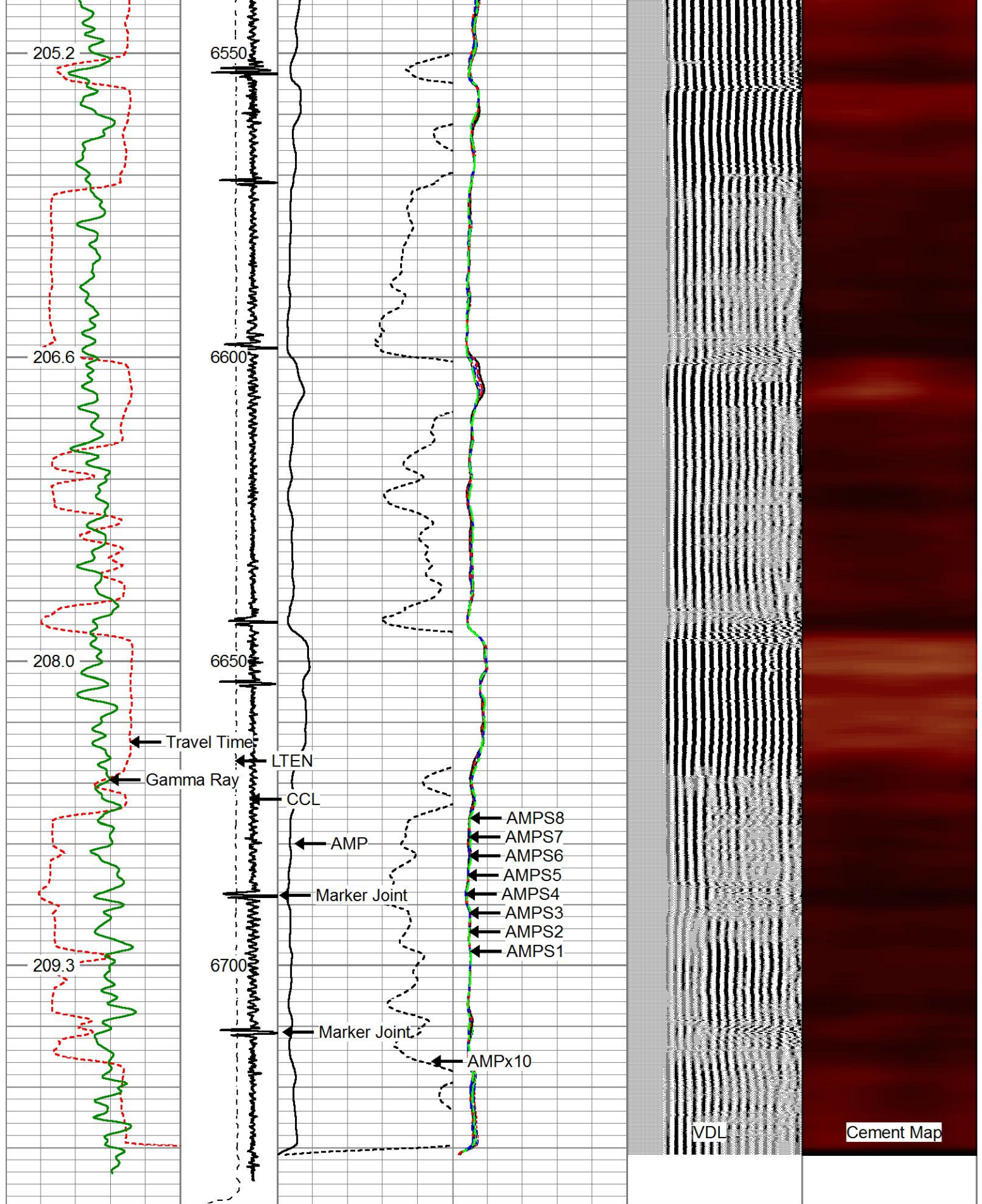












Travel Time	-3	CCL	1	0	AMP (mV)	100	-5	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
343 (usec)	243	LTEN	0	AMPx10 (mV)	10	-5	AMPS2	150							
Gamma Ray	0	(lb'3000)				-5	AMPS3	150							
0 (GAPI)	200					-5	AMPS4	150							
TEMP						-5	AMPS5	150							



TEMP	-5	AMPS6	150
(degF)	-5	AMPS7	150
	-5	AMPS8	150

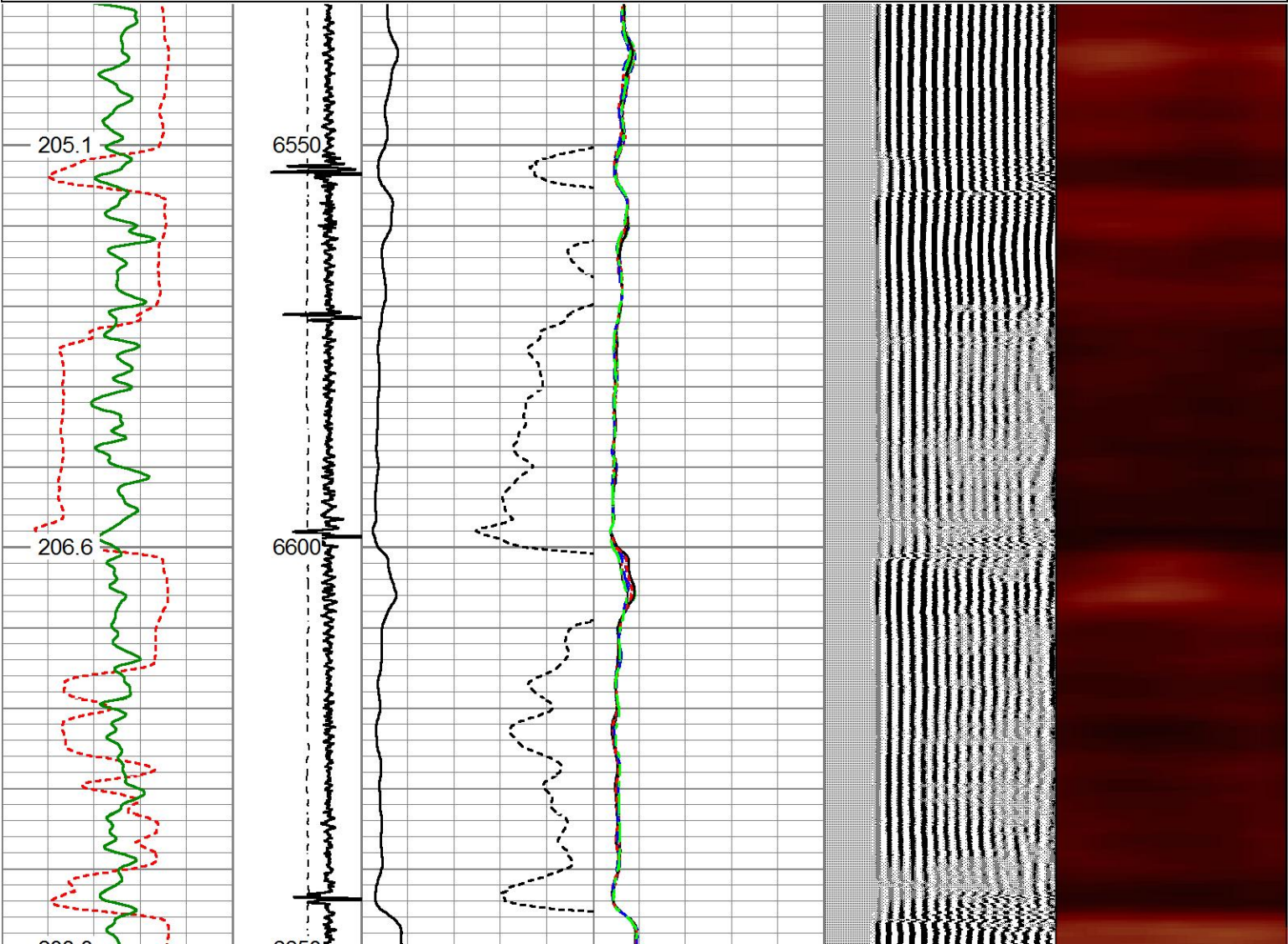


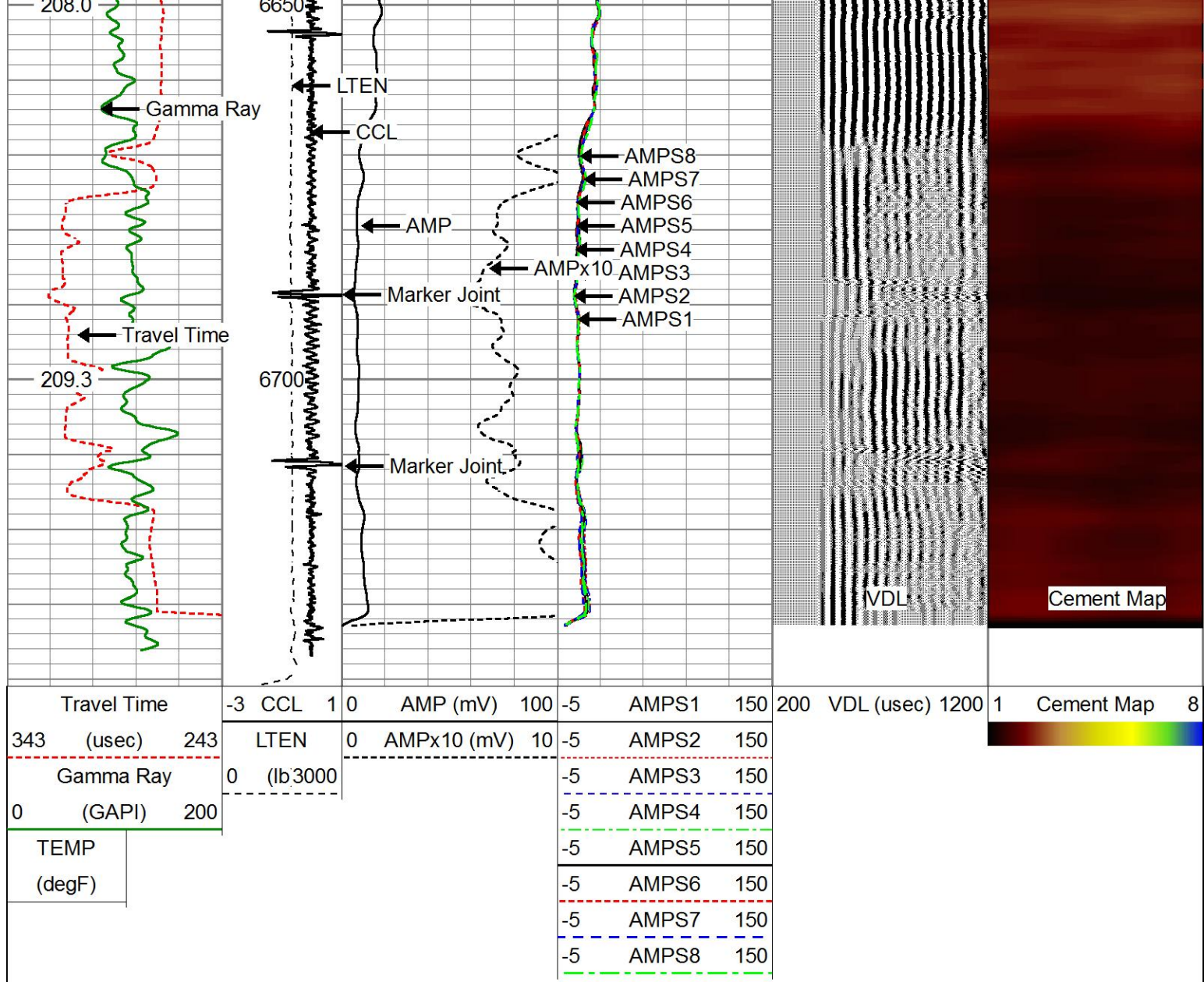
# REPEAT PASS, 2800 PSI

5" = 100'

Database File damore 18-6hz.db  
Dataset Pathname LOG1/pass3  
Presentation Format rbt-gct8acc  
Dataset Creation Mon May 18 09:26:46 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 18-6hz.db  
 Dataset Pathname LOG1/pass4  
 Dataset Creation Mon May 18 09:31:06 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 (Derived):


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.560	0.000	71.921	128.709	-0.157
CAL	0.004	0.629				
5'	0.002	0.502	0.000	71.921	143.618	-0.217
SUM						
S1	-0.003	0.583	0.000	100.000	170.781	0.434
S2	0.001	0.544	0.000	100.000	184.106	-0.216
S3	0.001	0.521	0.000	100.000	192.210	-0.197
S4	0.001	0.531	0.000	100.000	188.582	-0.166
S5	0.002	0.563	0.000	100.000	178.257	-0.270
S6	0.001	0.609	0.000	100.000	164.617	-0.217
S7	0.002	0.637	0.000	100.000	157.551	-0.315
S8	0.001	0.614	0.000	100.000	163.148	-0.207

#### 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	1.00	1.69	1.00



Tool Name	Length (ft)	Weight (lb)	OD (in)	Tool Description
Standard Cable Head				
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)	4.77	2.75	40.00	Probe 2 3/4" Gamma Ray CCL w/Temperature

Dataset:  
Total length:  
Total weight:  
O.D.:

damore 18-6hz.db: field/well/LOG1/pass4  
15.39 ft  
131.00 lb  
2.75 in



<b>Well</b>	DAMORE 18-6HZ
<b>Field</b>	WATTENBERG
<b>County</b>	WELD
<b>State</b>	COLORADO