



Radial Cement Bond  
w/ Variable Density  
Gamma Ray, CCL, Temp Log  
Final Print

Company Great Western Oil & Gas  
Well Schneider HD 11-099HC  
Field Wattenberg  
County Weld State Colorado

Location: API #: 05-123-46408

NWSW  
40.324181/-104.826600

SEC 7 TWP 4N RGE 66W

Permanent Datum GL  
Log Measured From KB  
Drilling Measured From KB  
Elevation 4,735'

Other Services  
None  
Elevation  
K.B. 4,755'  
D.F.  
G.L. 4,735'

Date 2 Dec 2019

Run Number	ONE
Depth Driller	17,996'
Depth Logger	7,967'
Bottom Logged Interval	7,965'
Top Log Interval	Surface
Open Hole Size	8 1/2"
Type Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	253 Deg F
Estimated Cement Top	
Time Well Ready	15:40
Time Logger on Bottom	16:15
Equipment Number	60
Location	Platteville, CO
Recorded By	H.Hill
Witnessed By	D.Pozas

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	Surface	1,594'
Prot. String				
Production String	5 1/2"	17#	Surface	17,996'
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 7,369'-7,379'

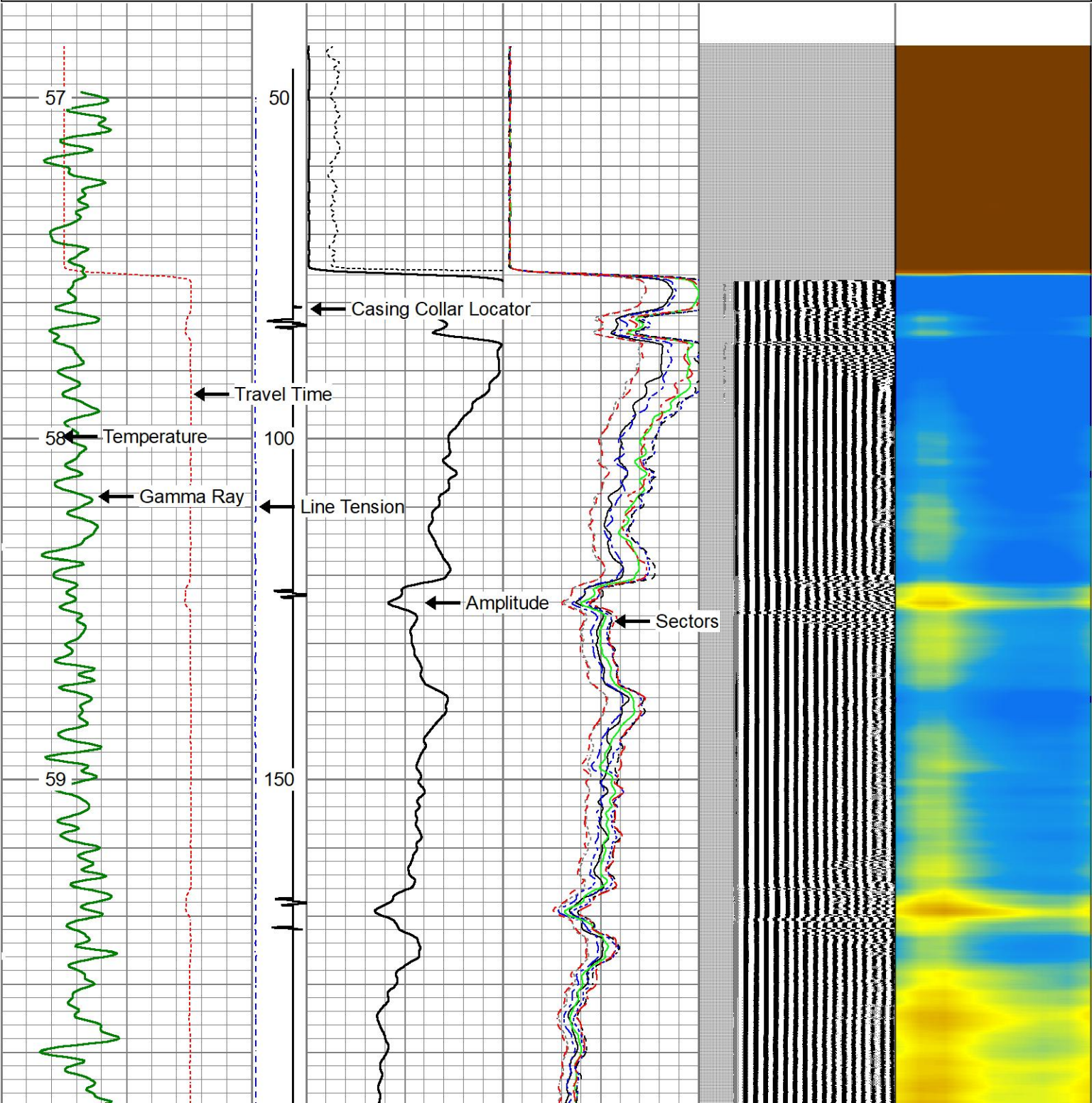
Thank You for using KLX Energy Services



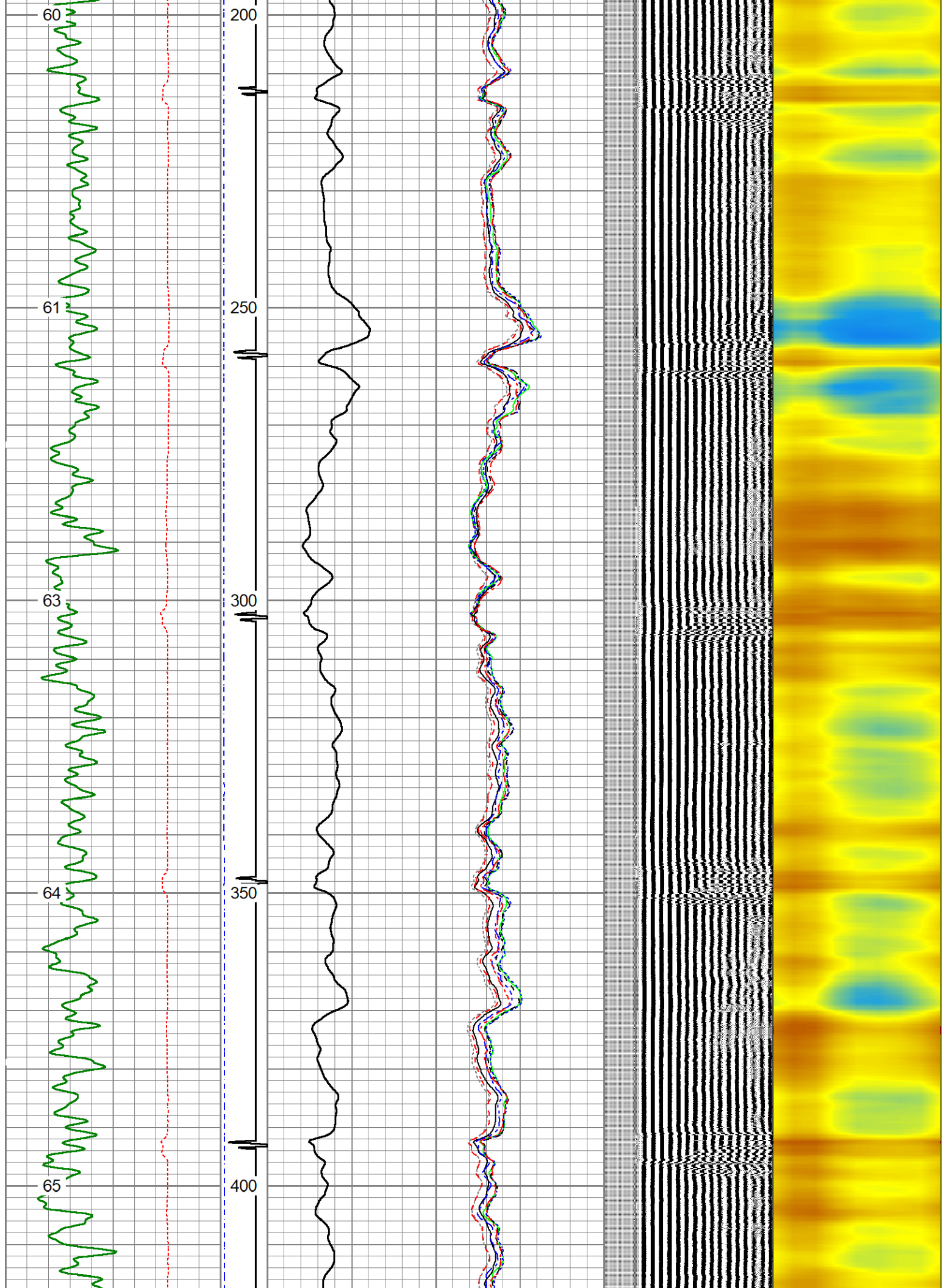
Main Pass

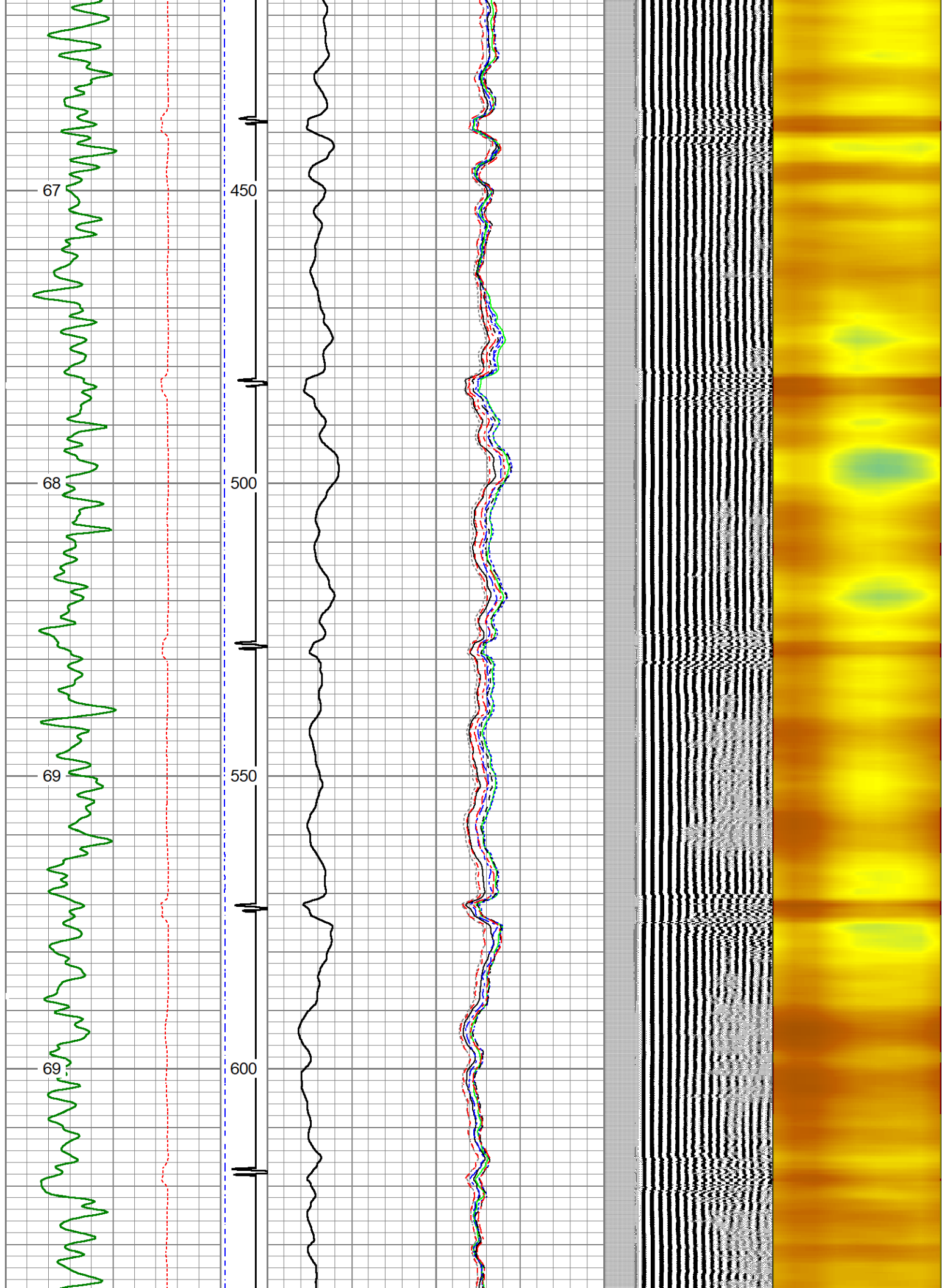
0 PSI 5"/100'

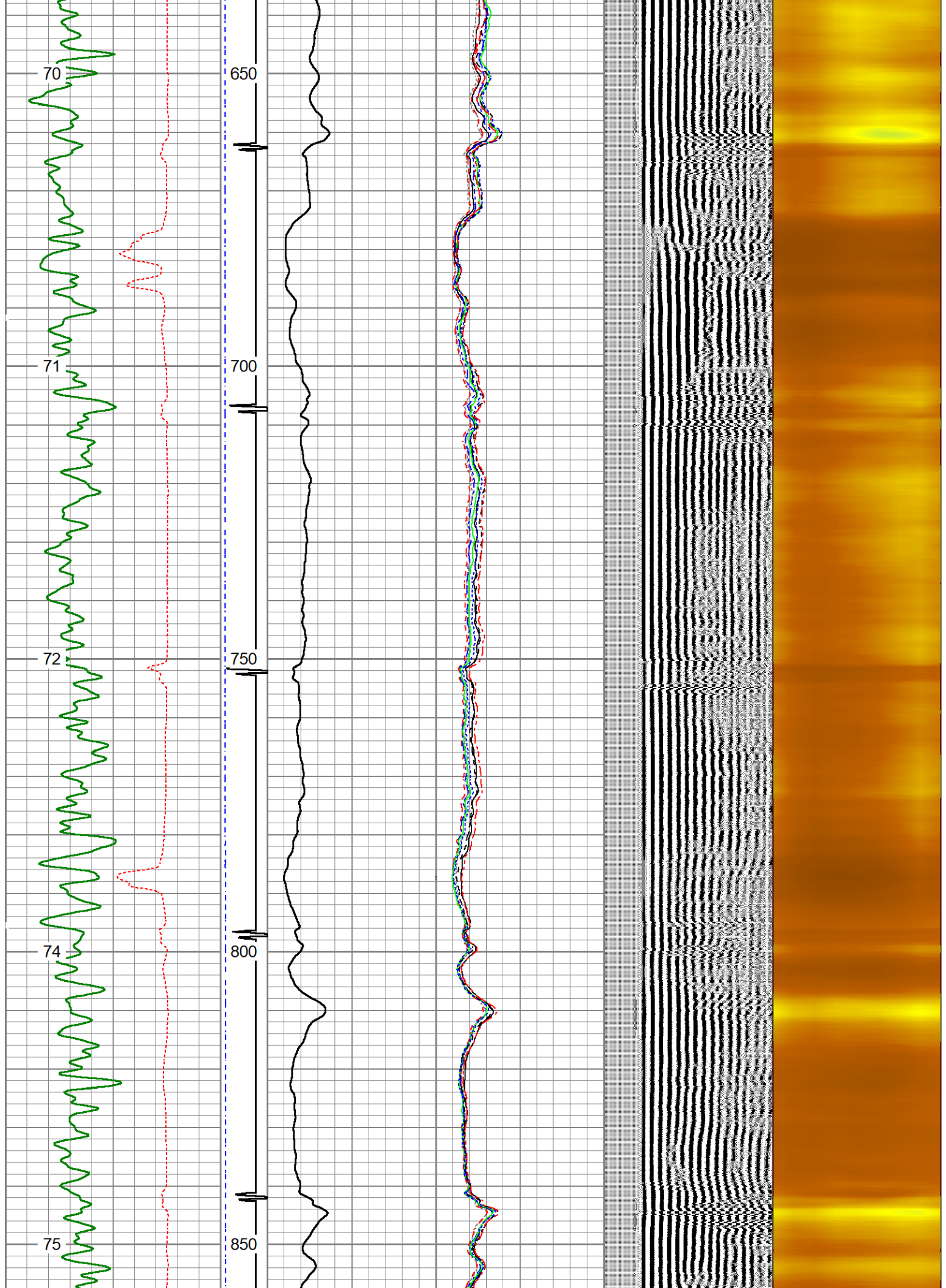
Database File	gw_schneider_hd_11_099hc_rcbl.db									
Dataset Pathname	rcbl/pass14.2									
Presentation Format	scbl03									
Dataset Creation	Mon Dec 02 19:16:27 2019									
Charted by	Depth in Feet scaled 1:240									
420	Travel Time (usec)	220	CCL	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density
0	Gamma Ray (GAPI)	150	3 -1		Amplified Amplitude		-5	Sector 2	150	200 (usec) 1200
Temp			LTEN	0	(mV)	10	-5	Sector 3	150	
(degF)			(lb)				-5	Sector 4	150	
			(3000				-5	Sector 5	150	
							-5	Sector 6	150	
							-5	Sector 7	150	
							-5	Sector 8	150	



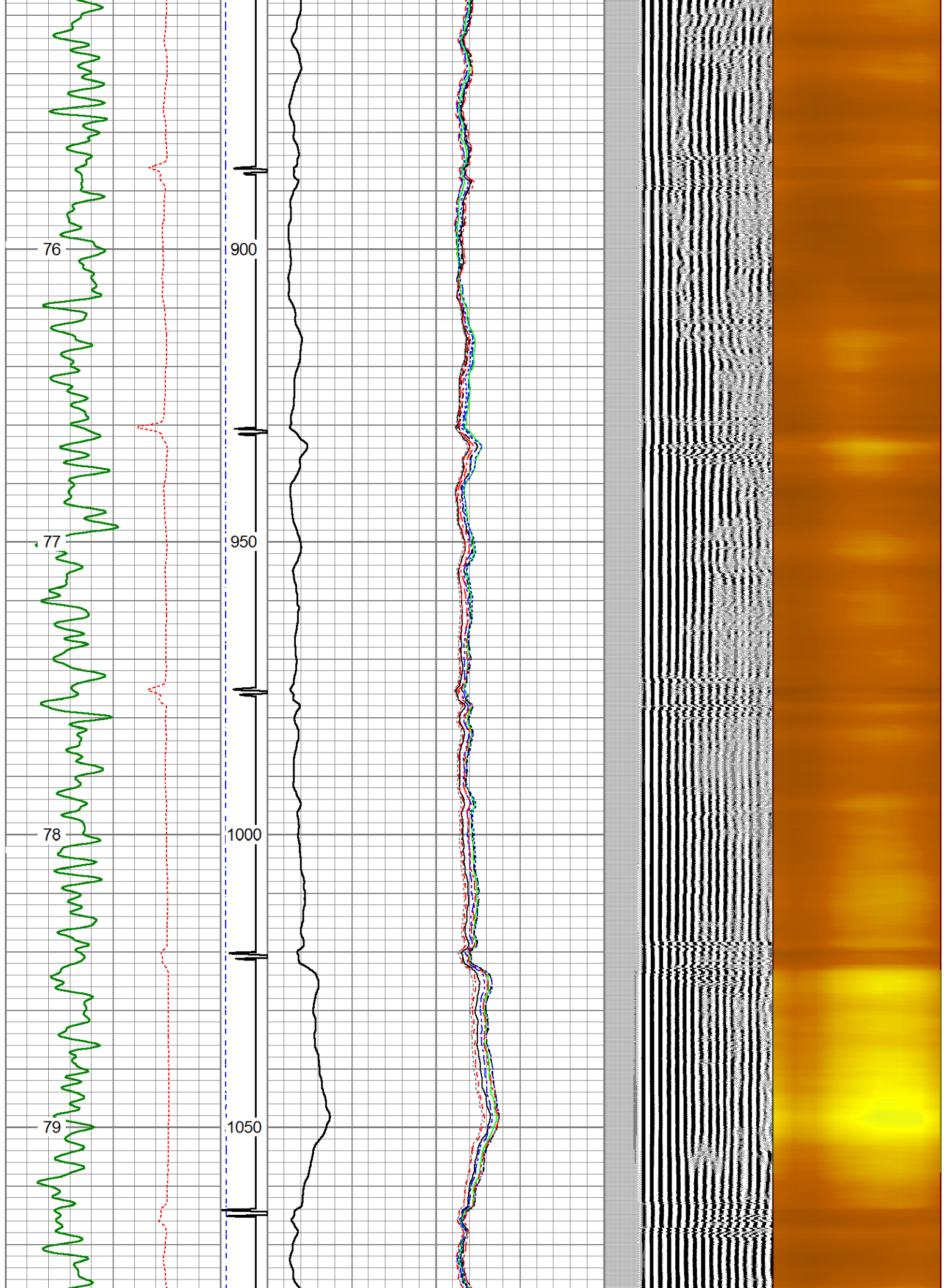


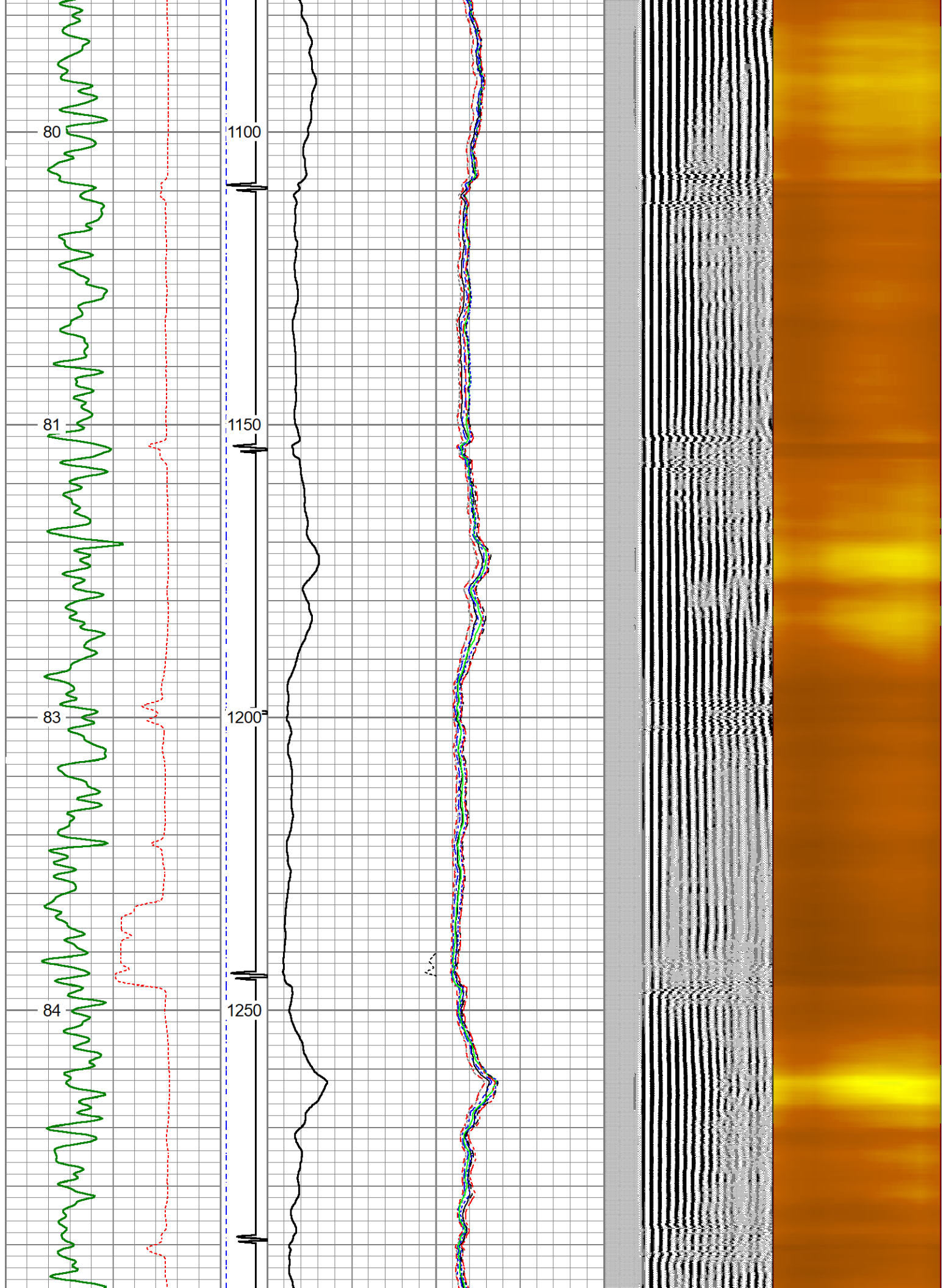


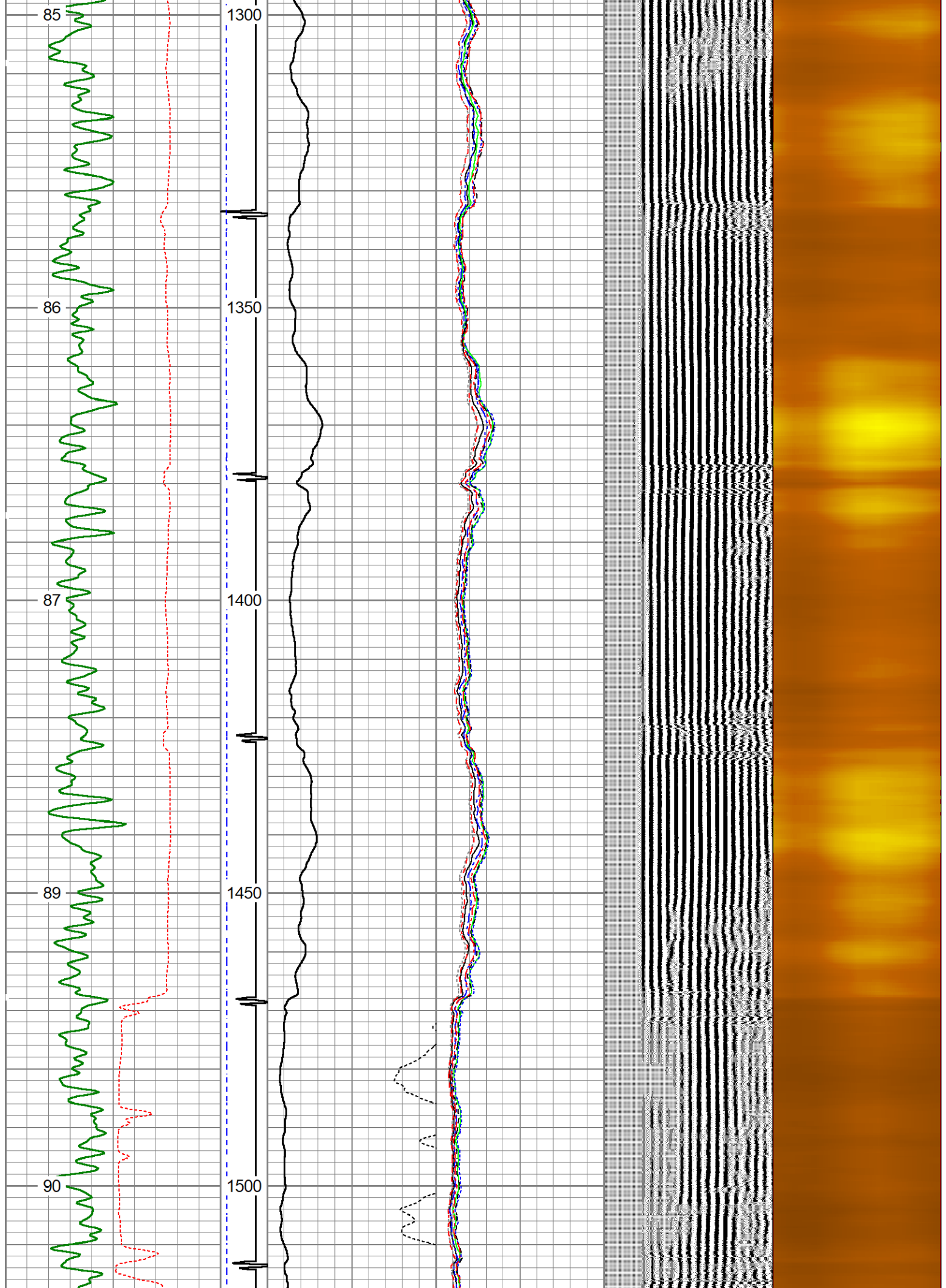




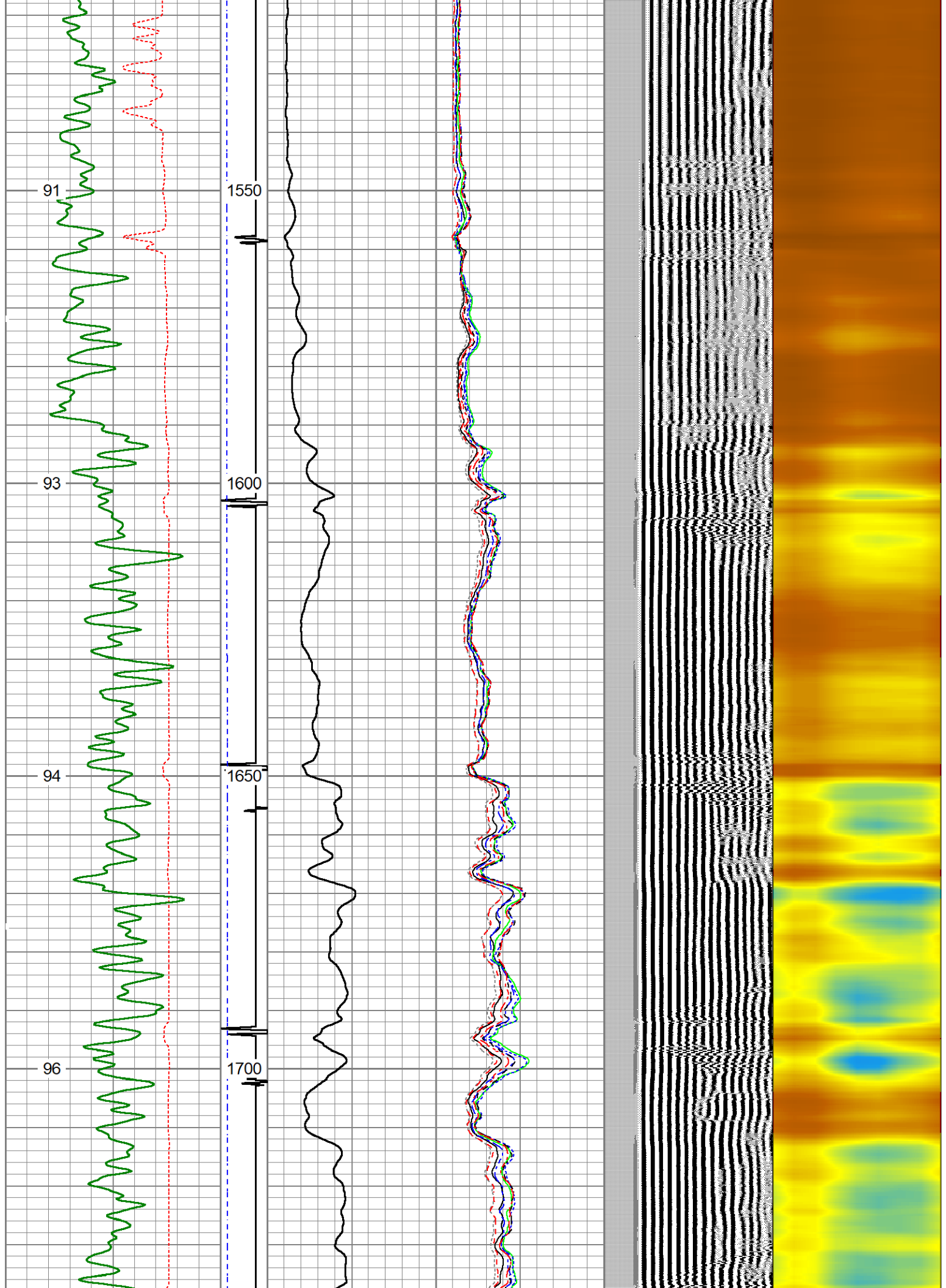


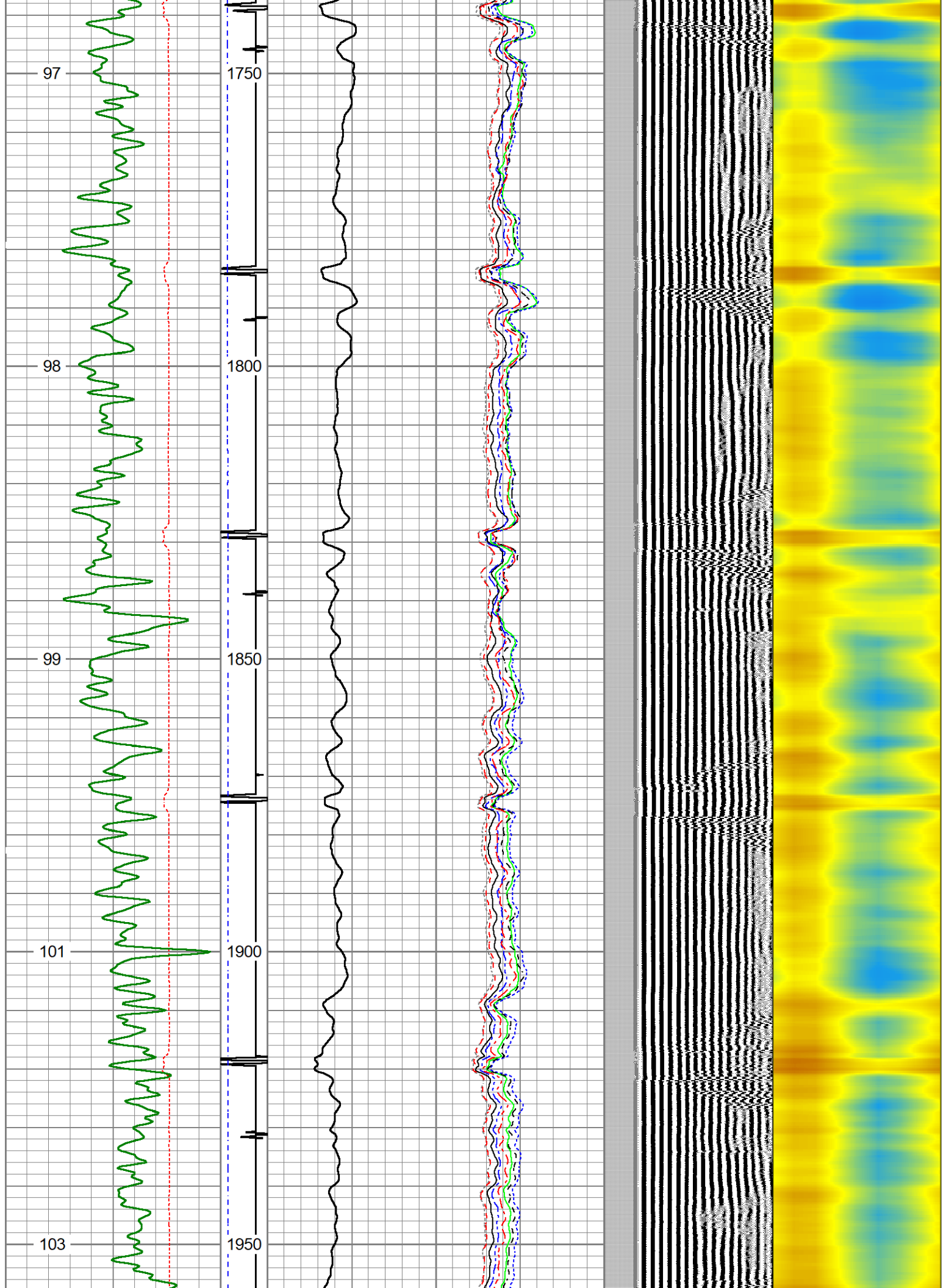




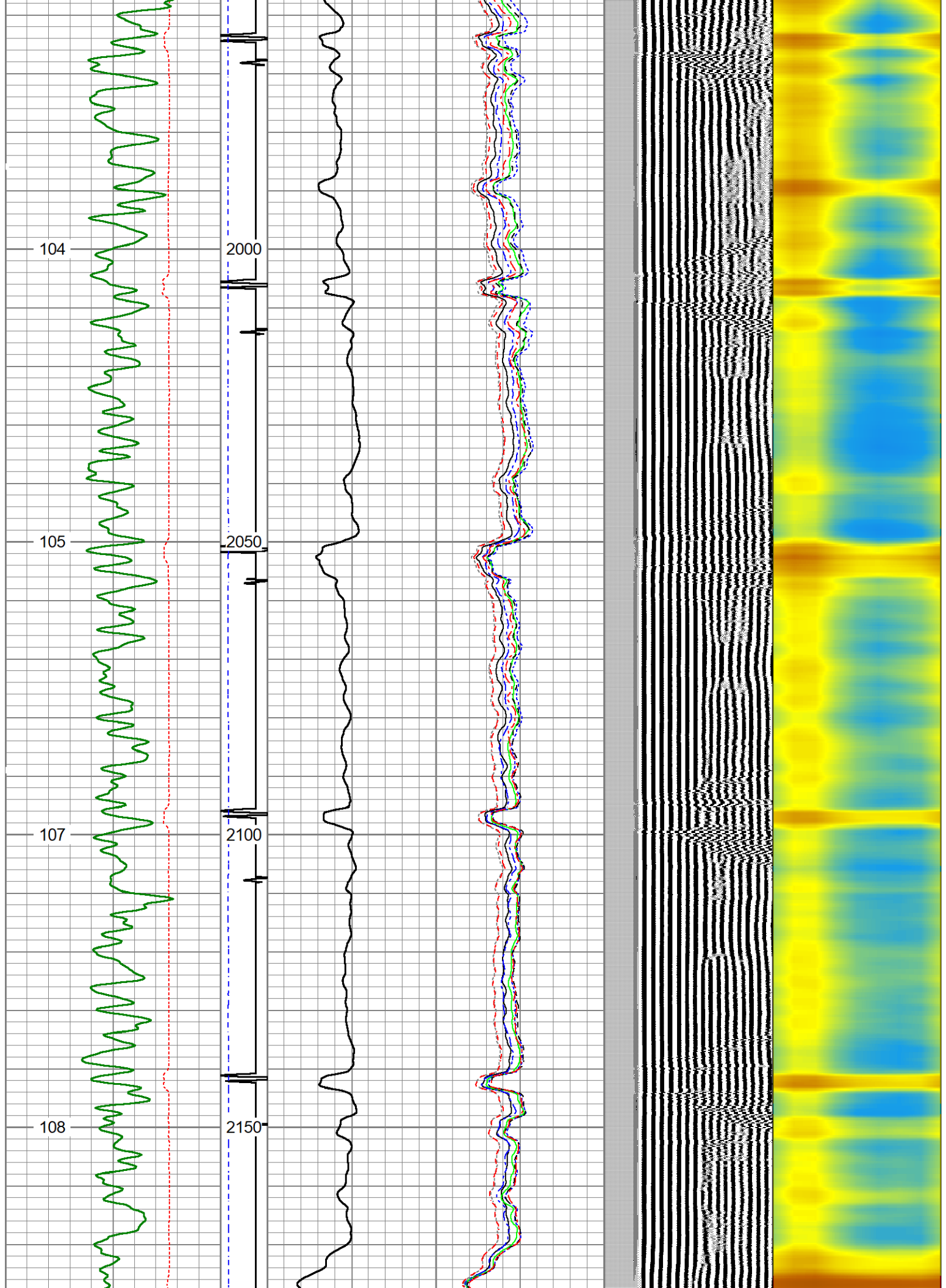


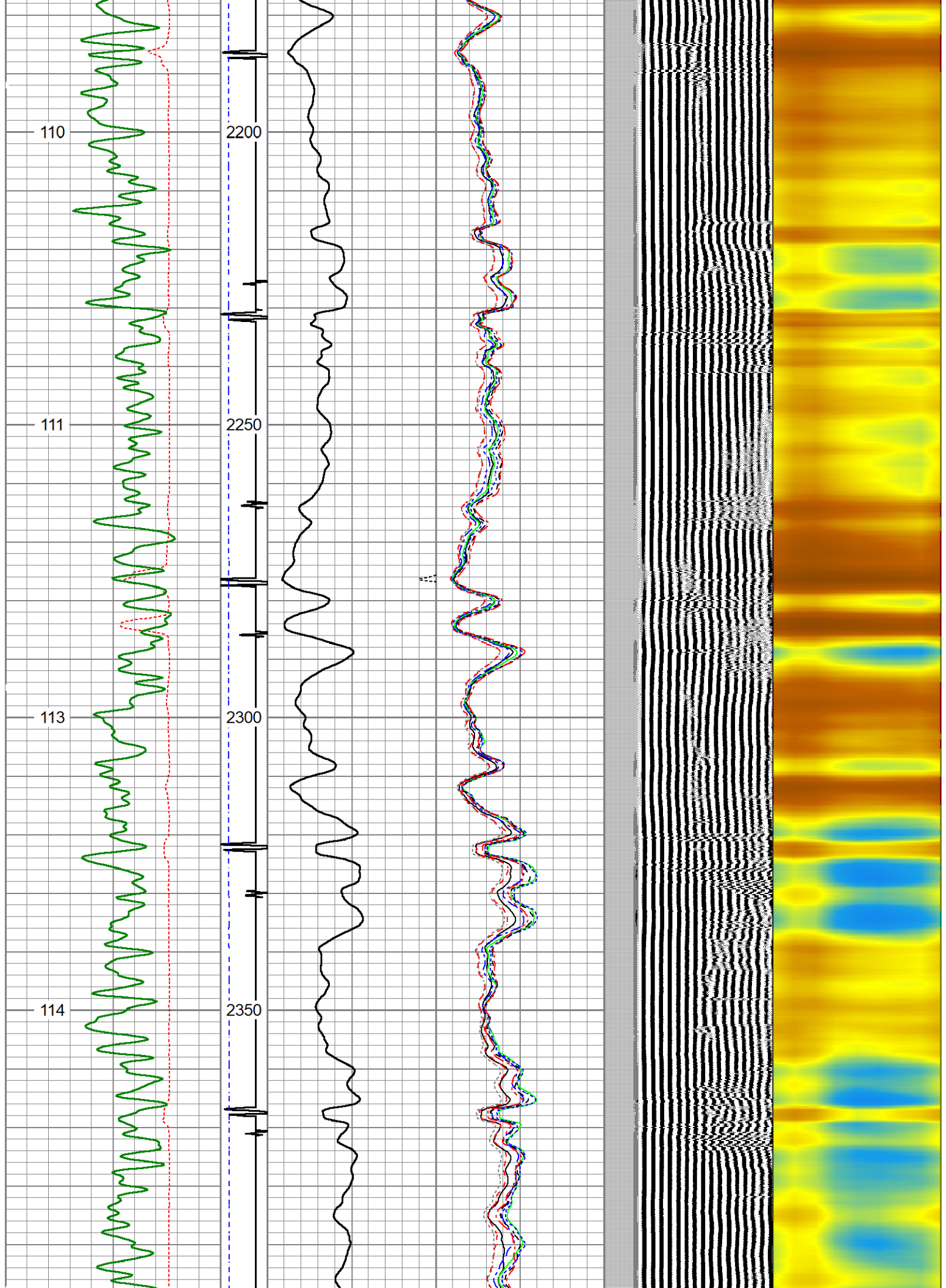




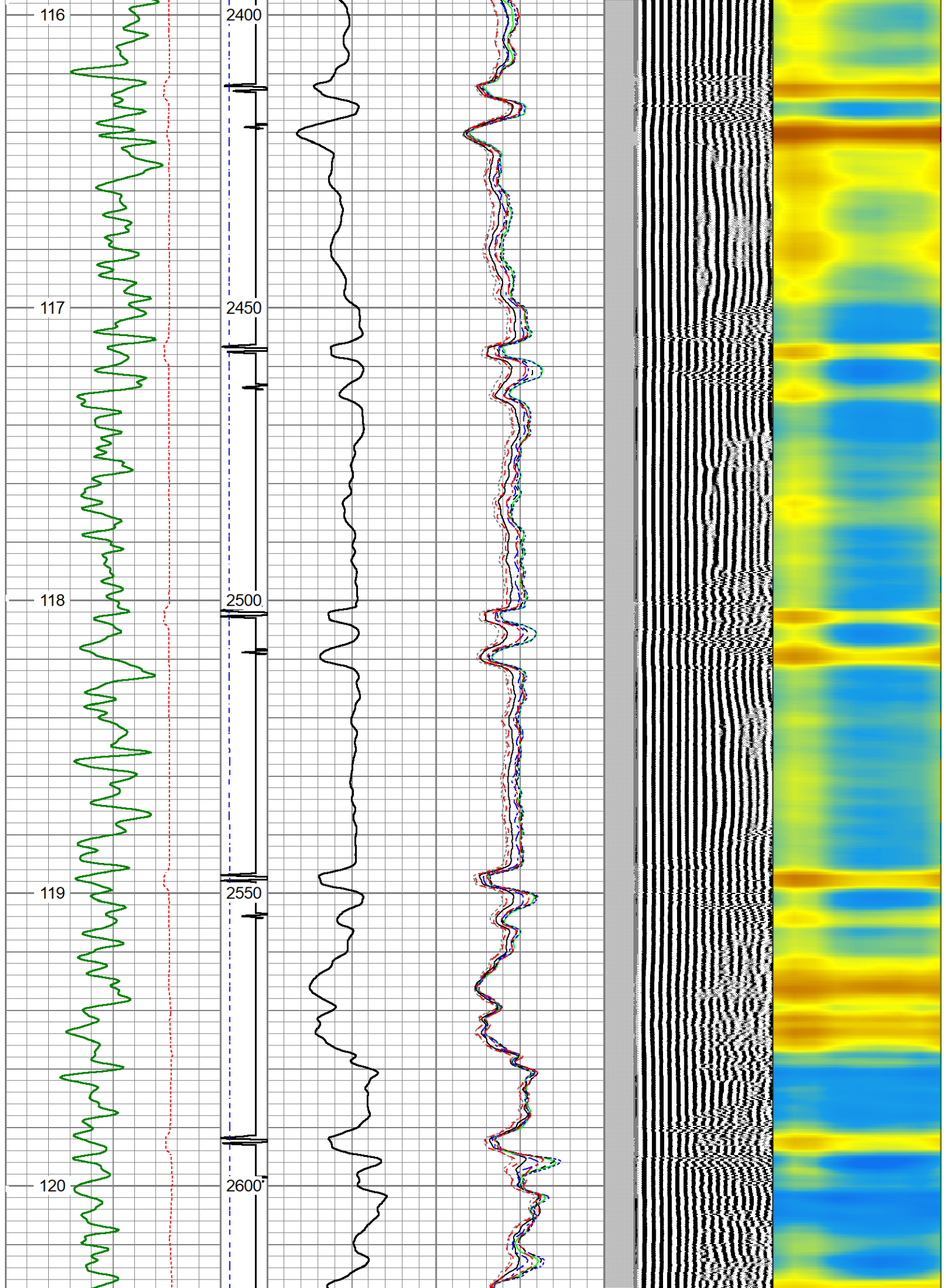


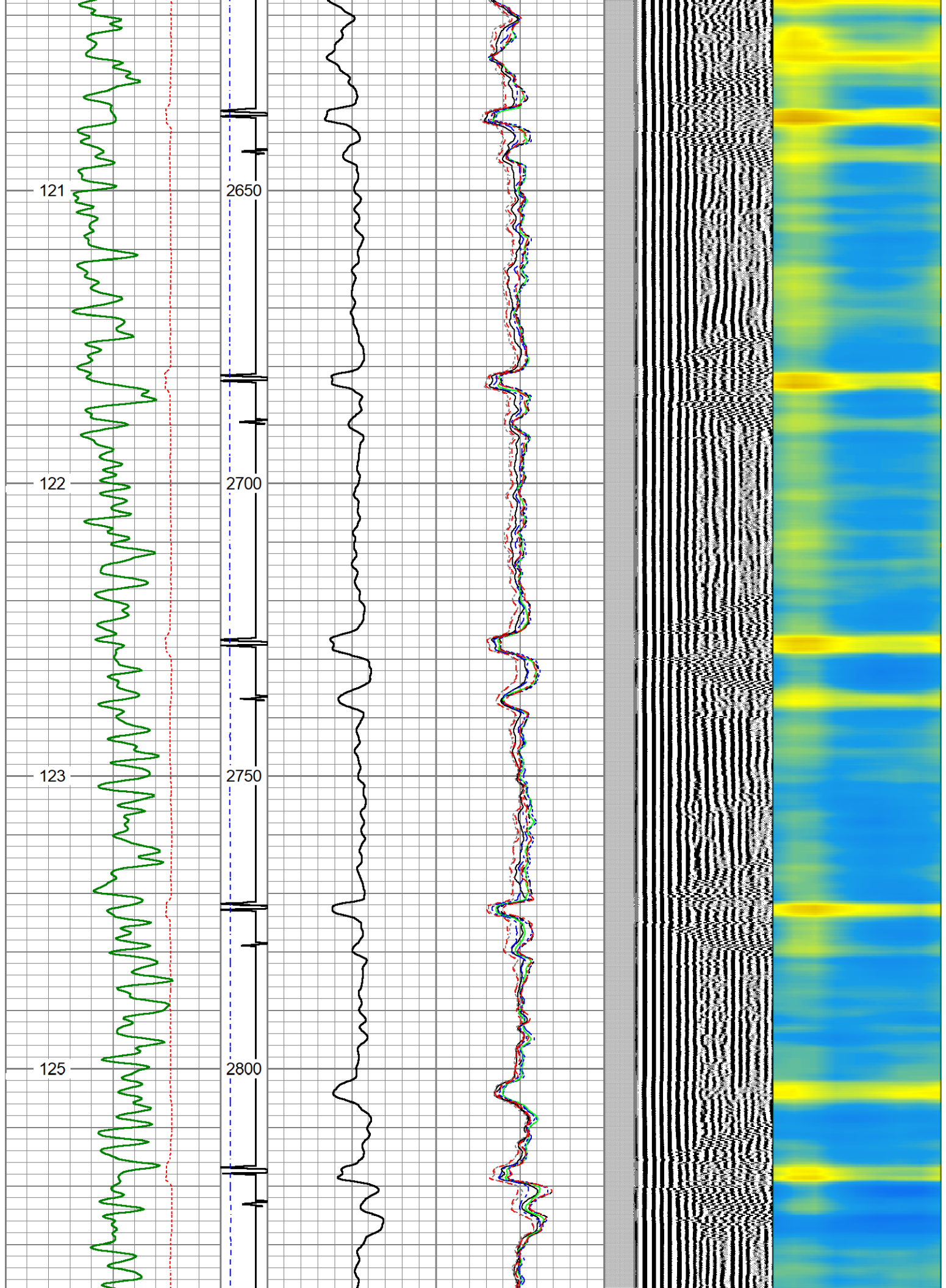




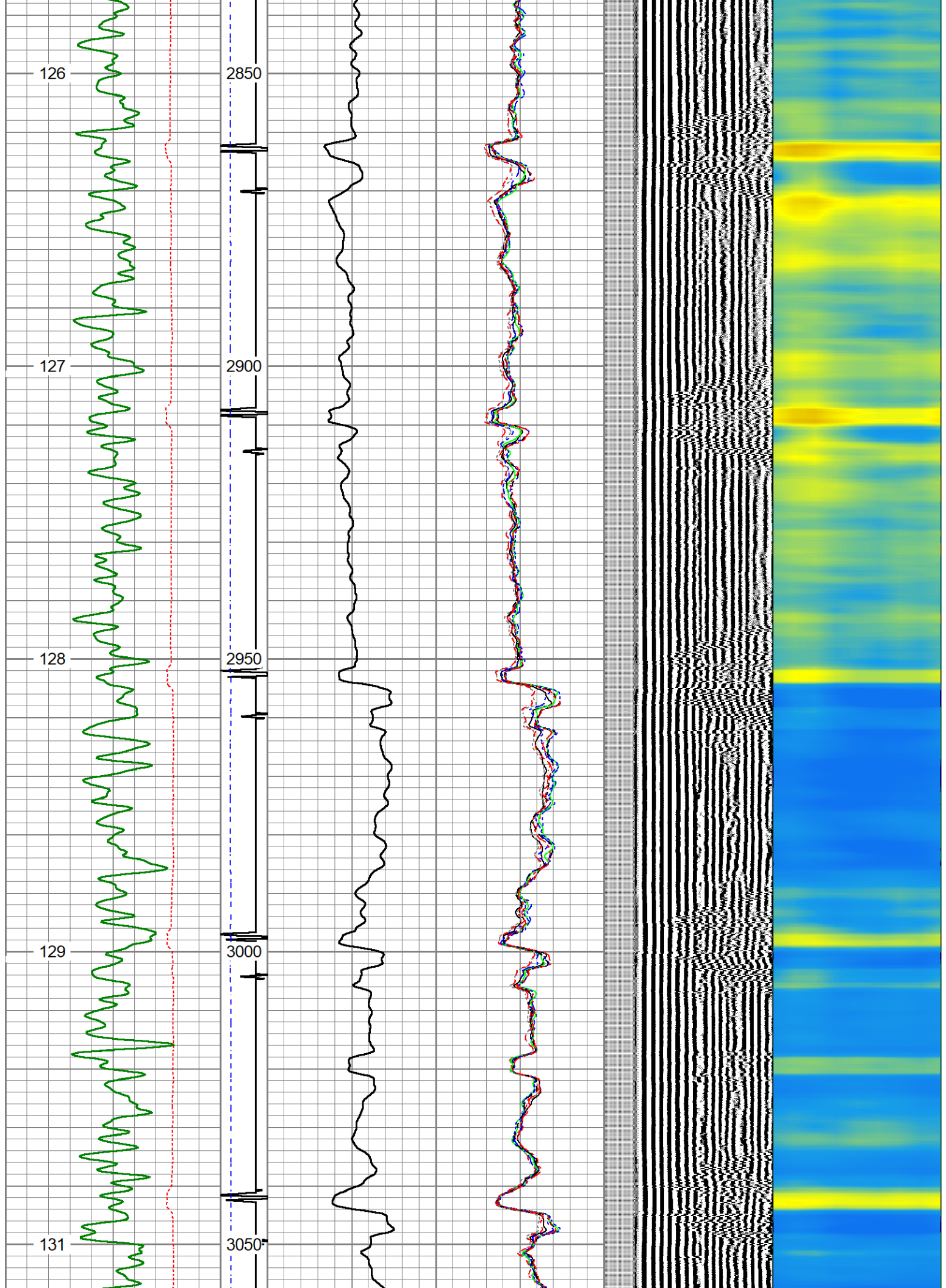


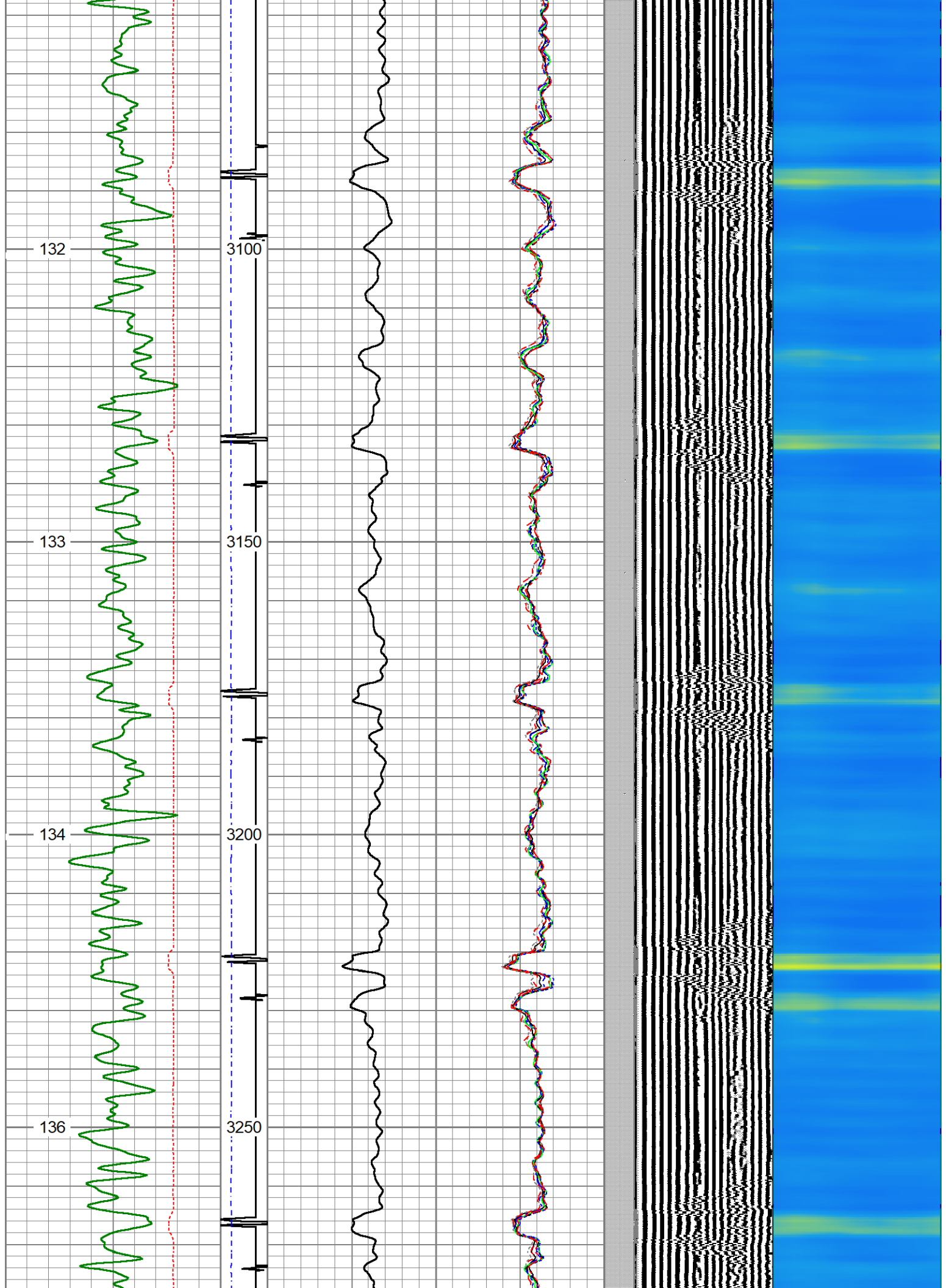




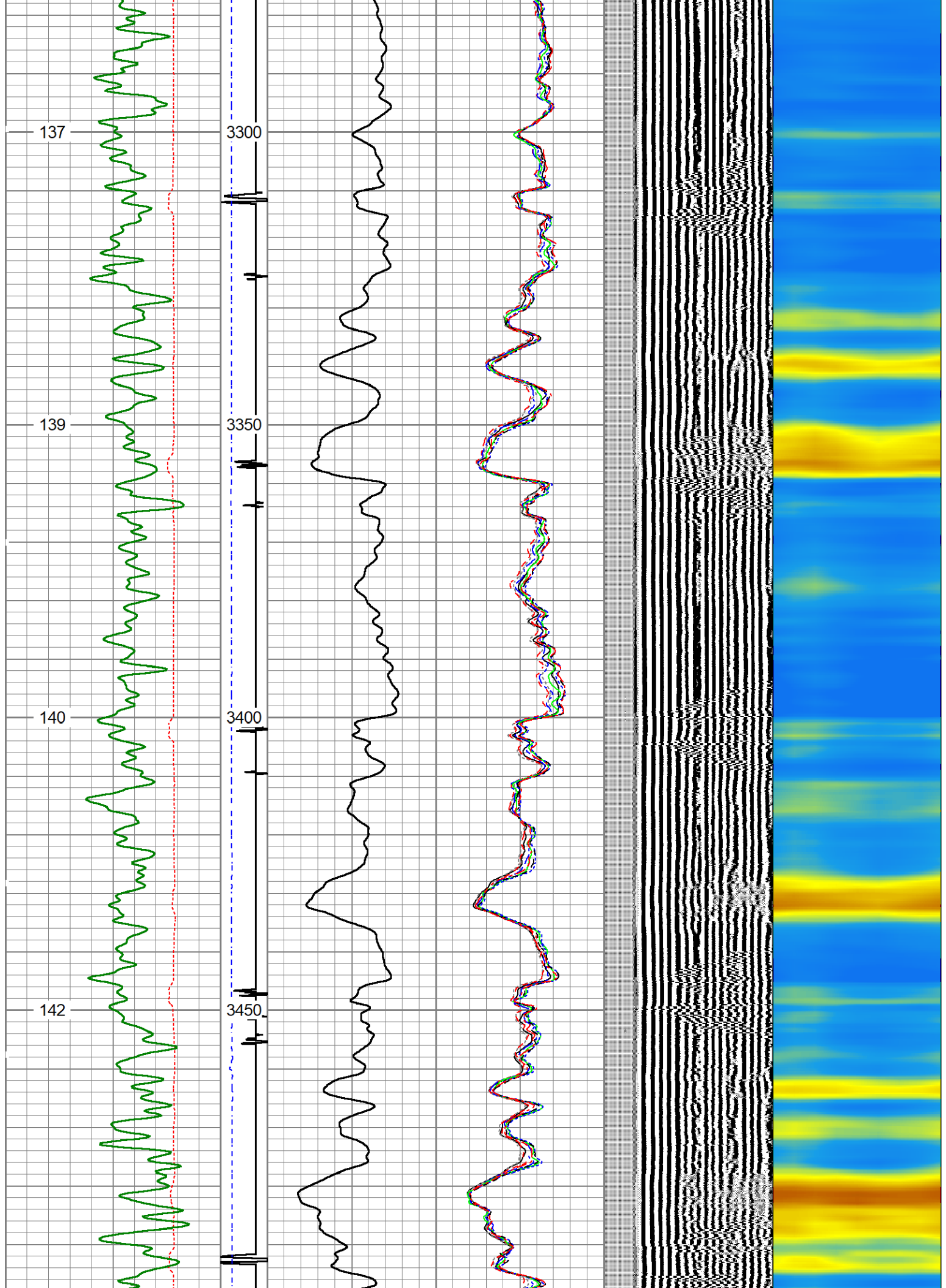


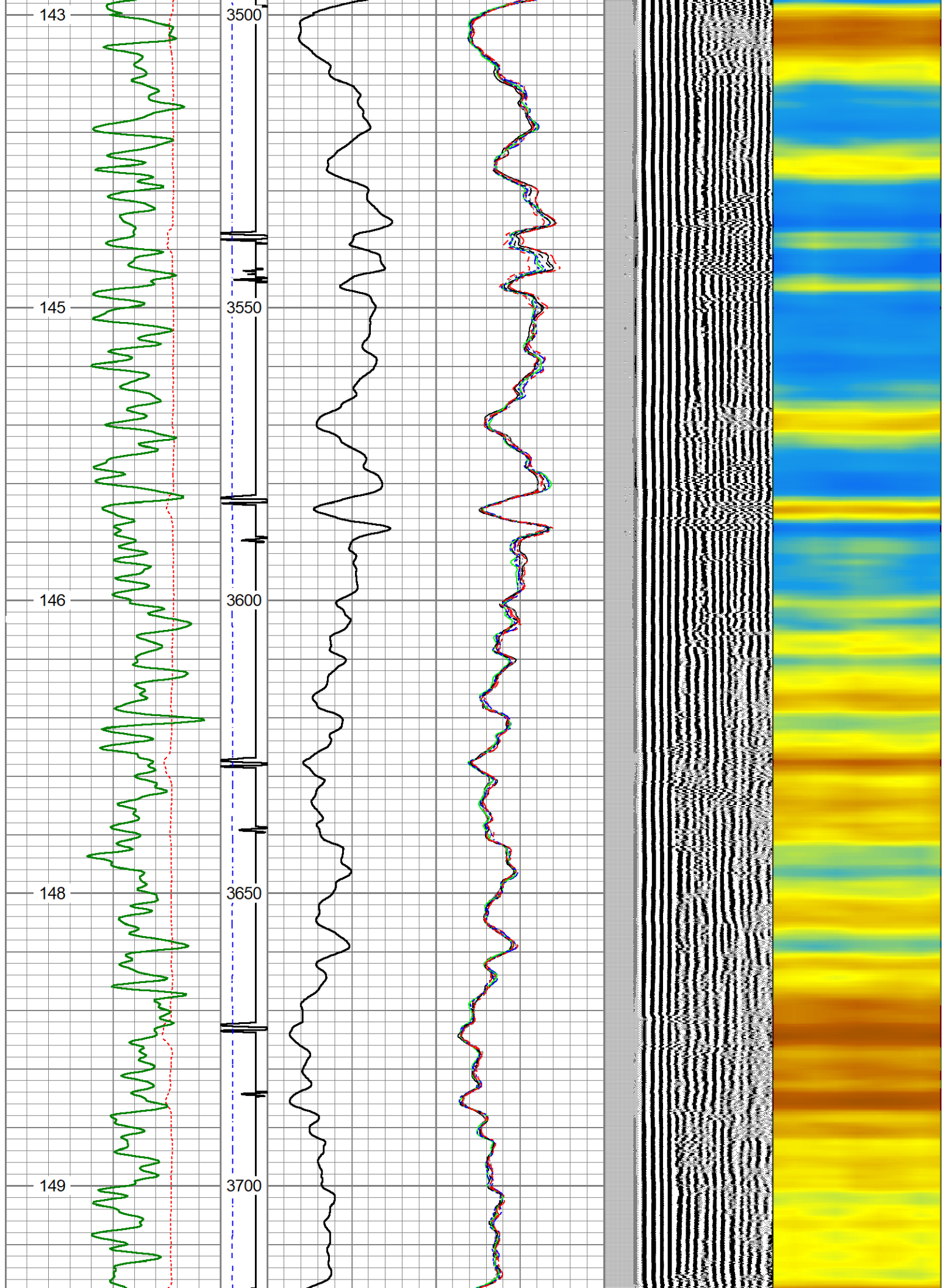




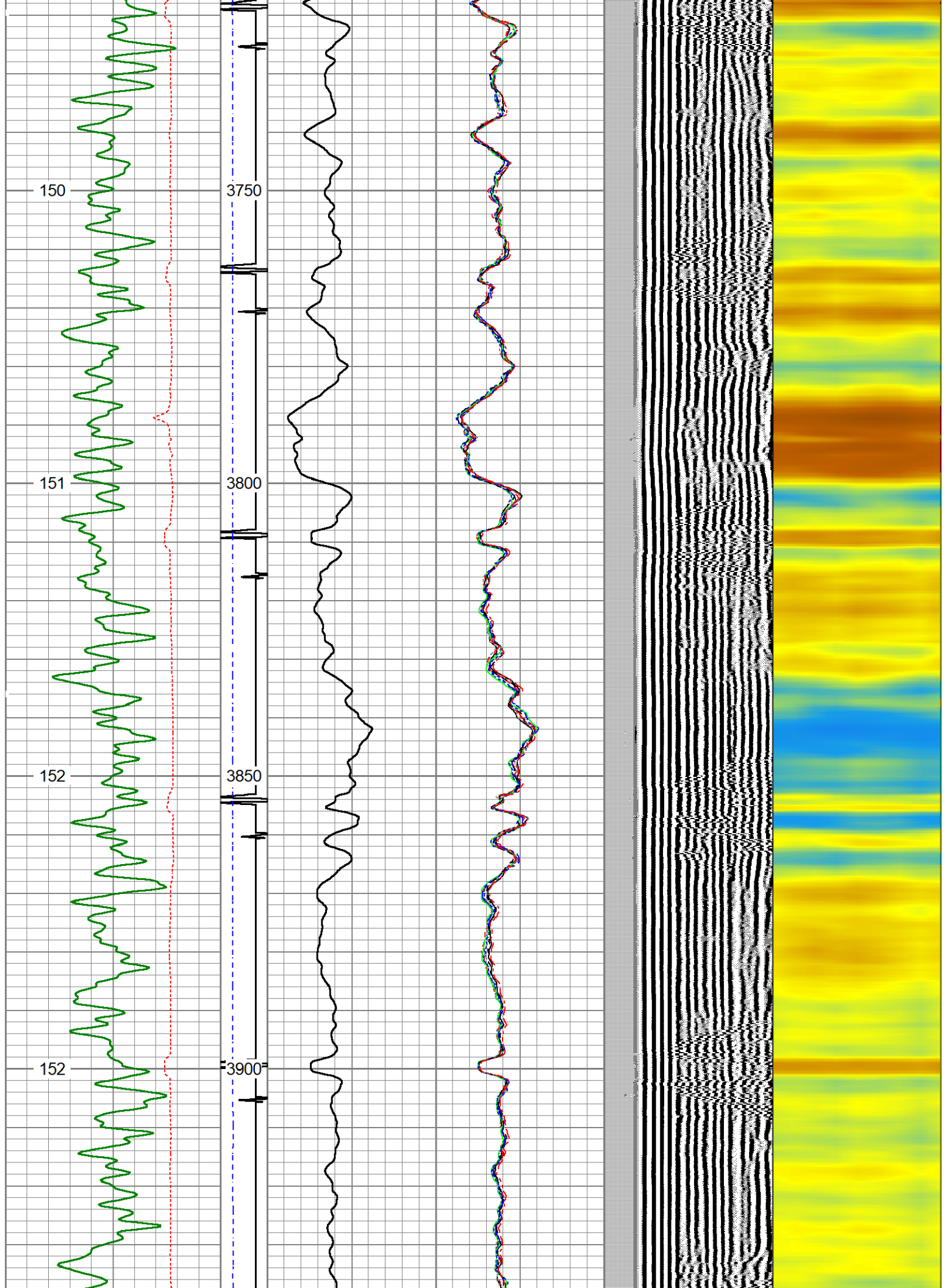


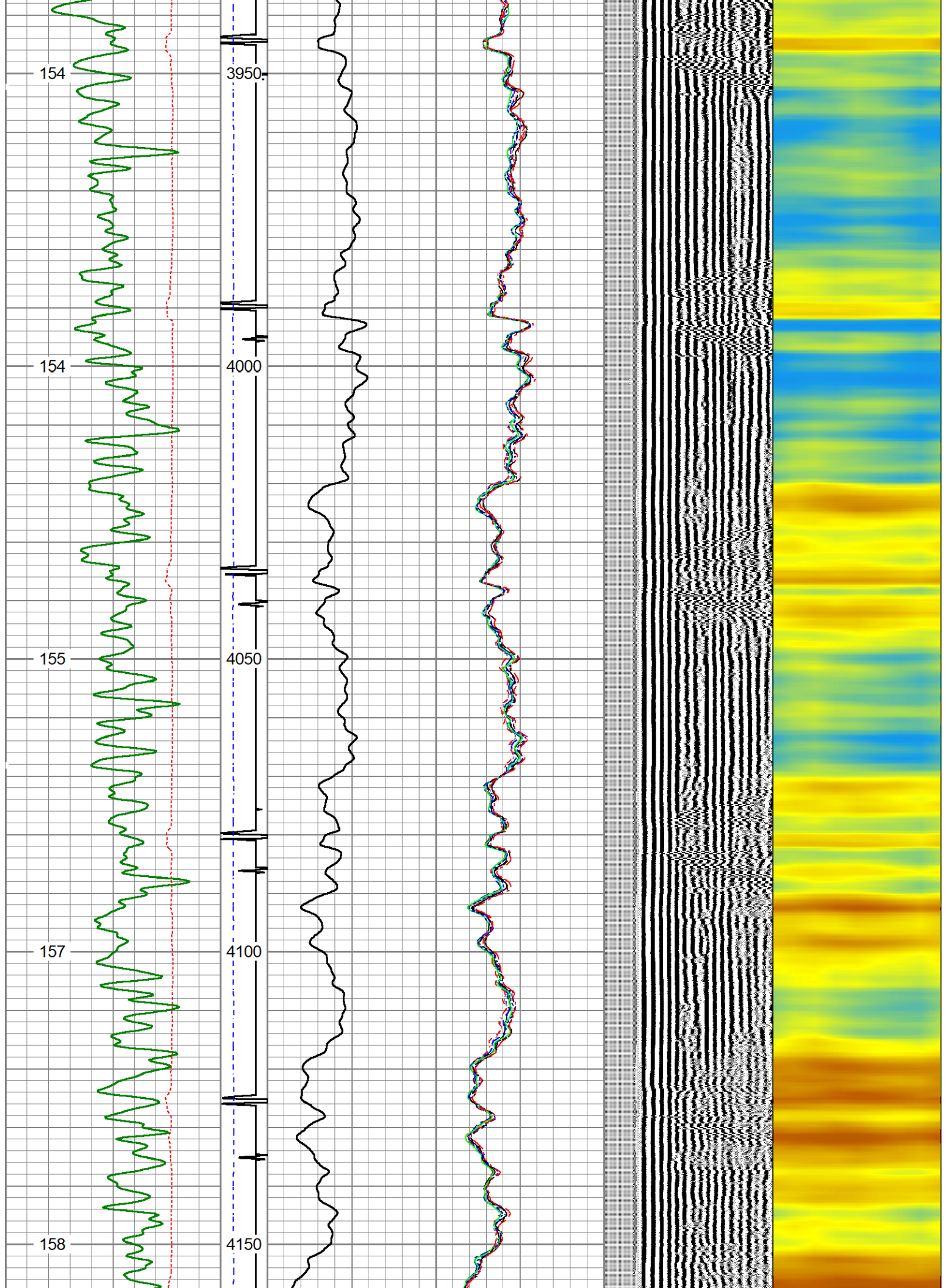




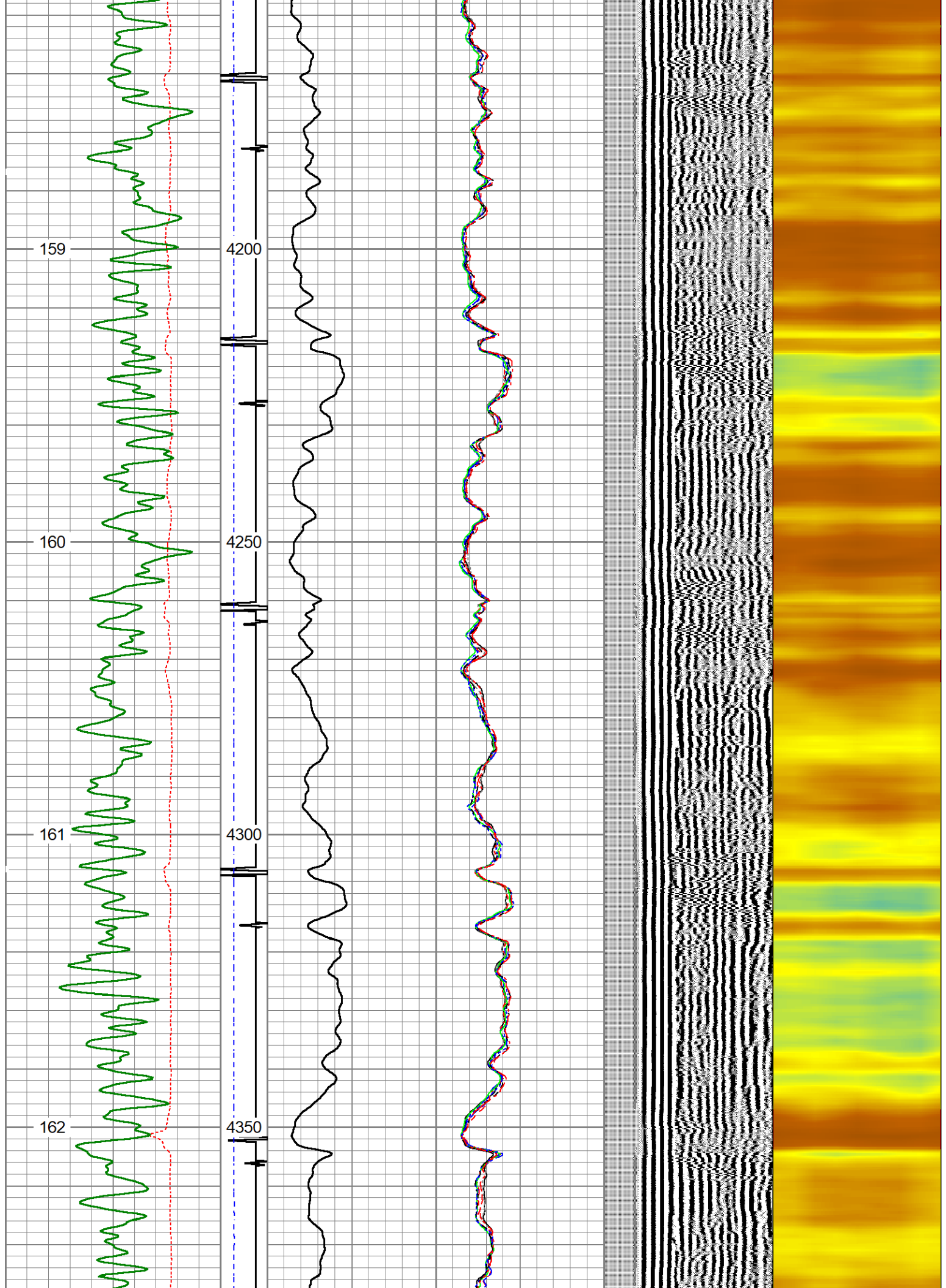


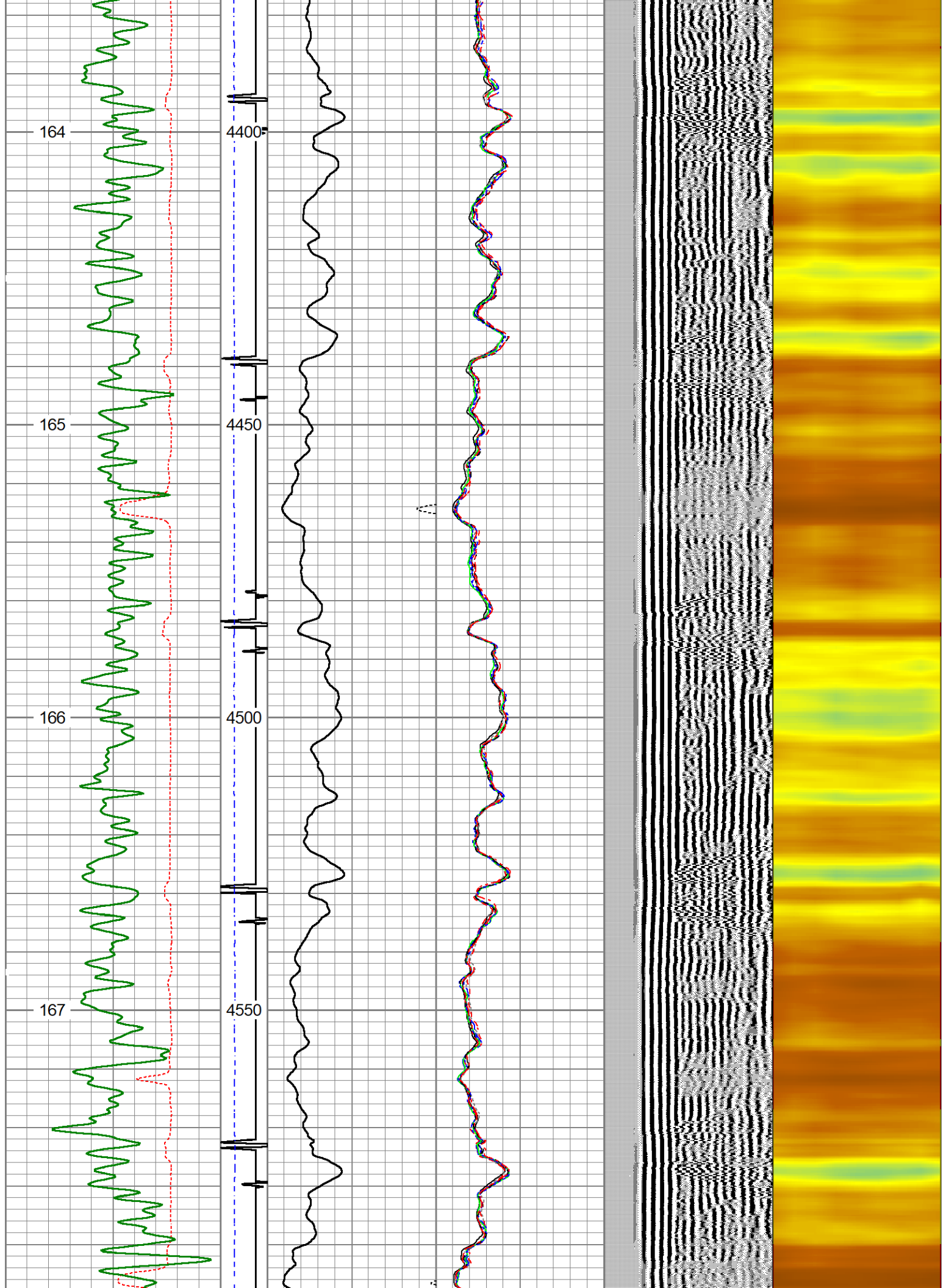




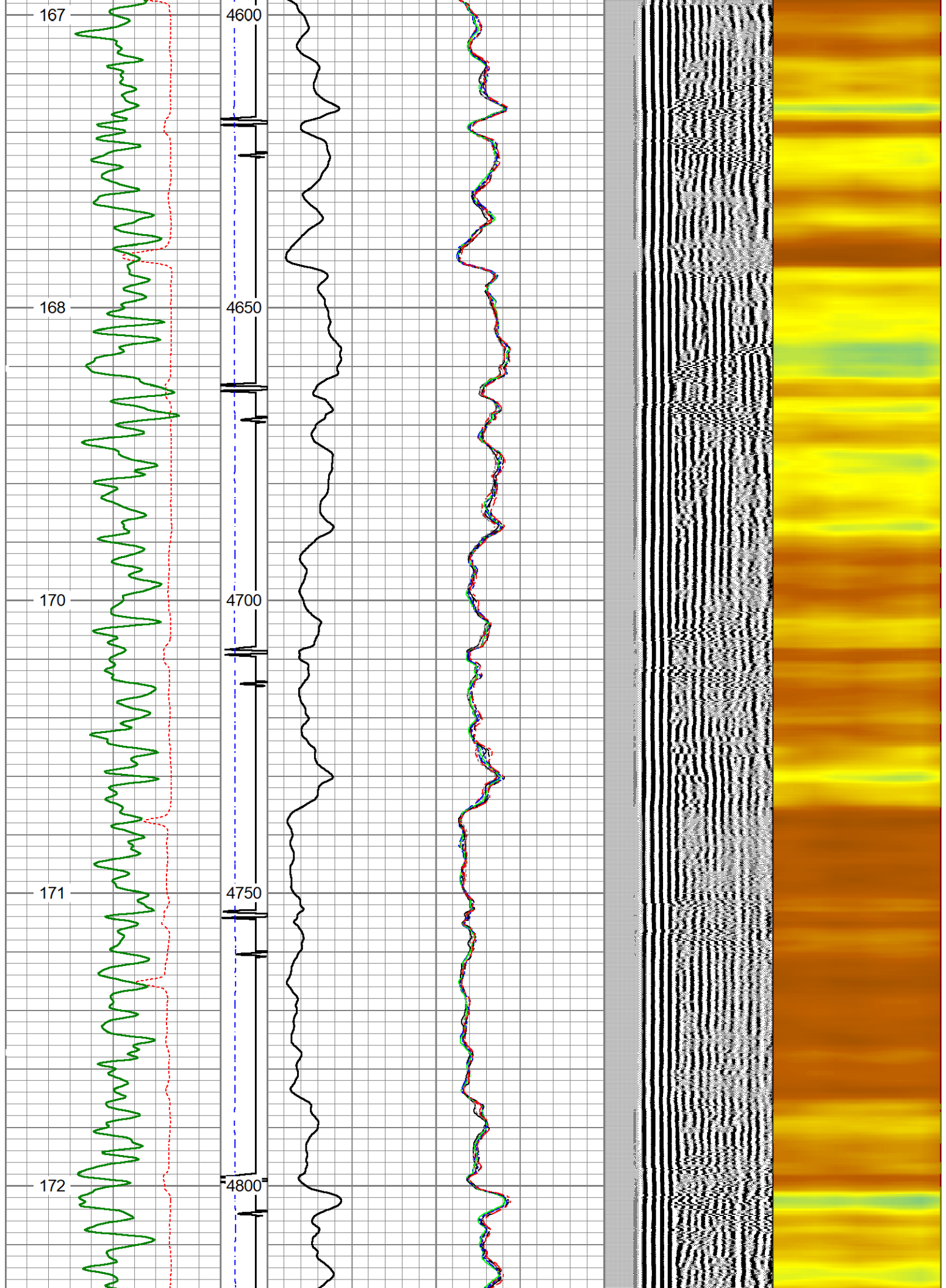


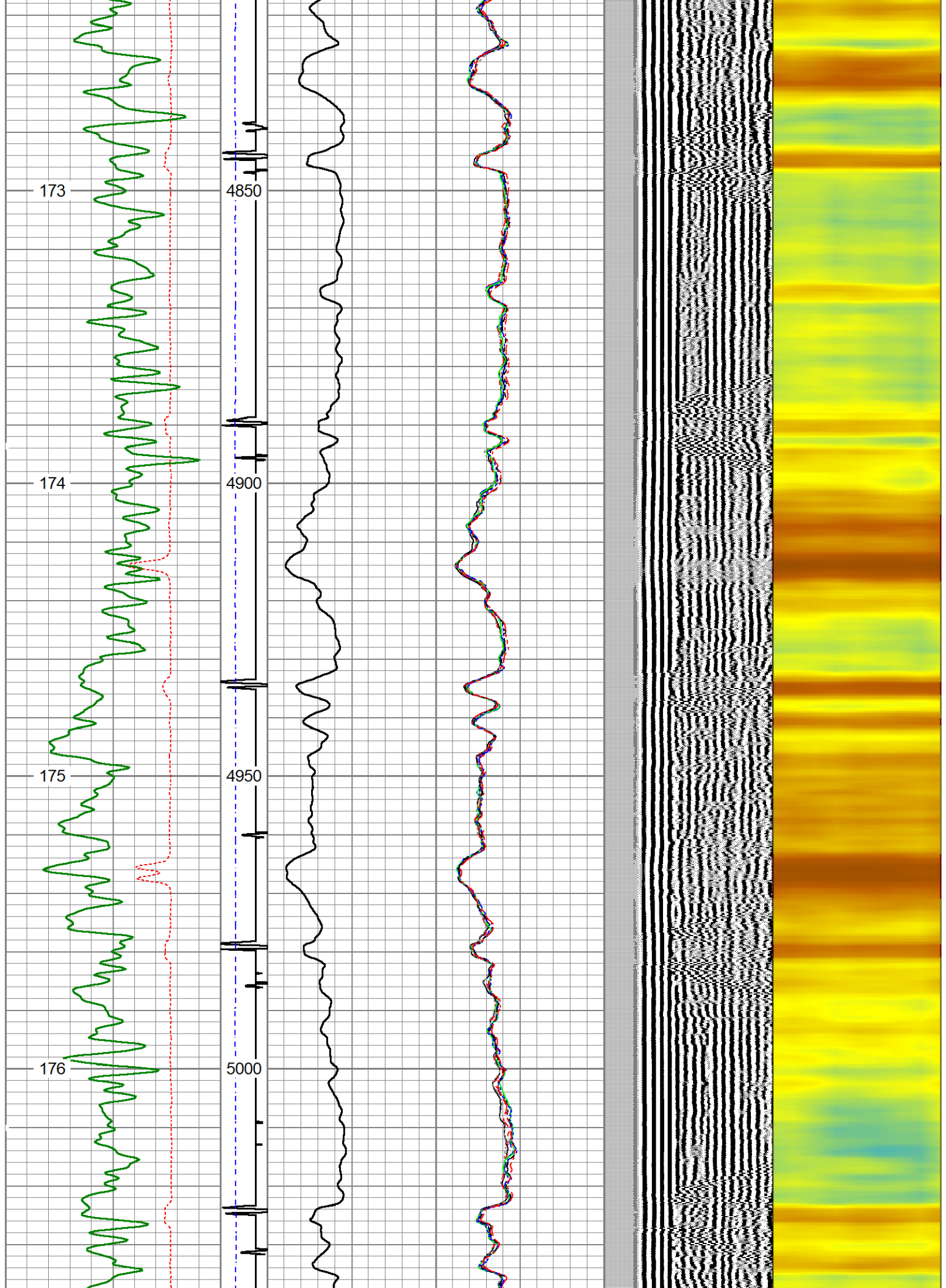




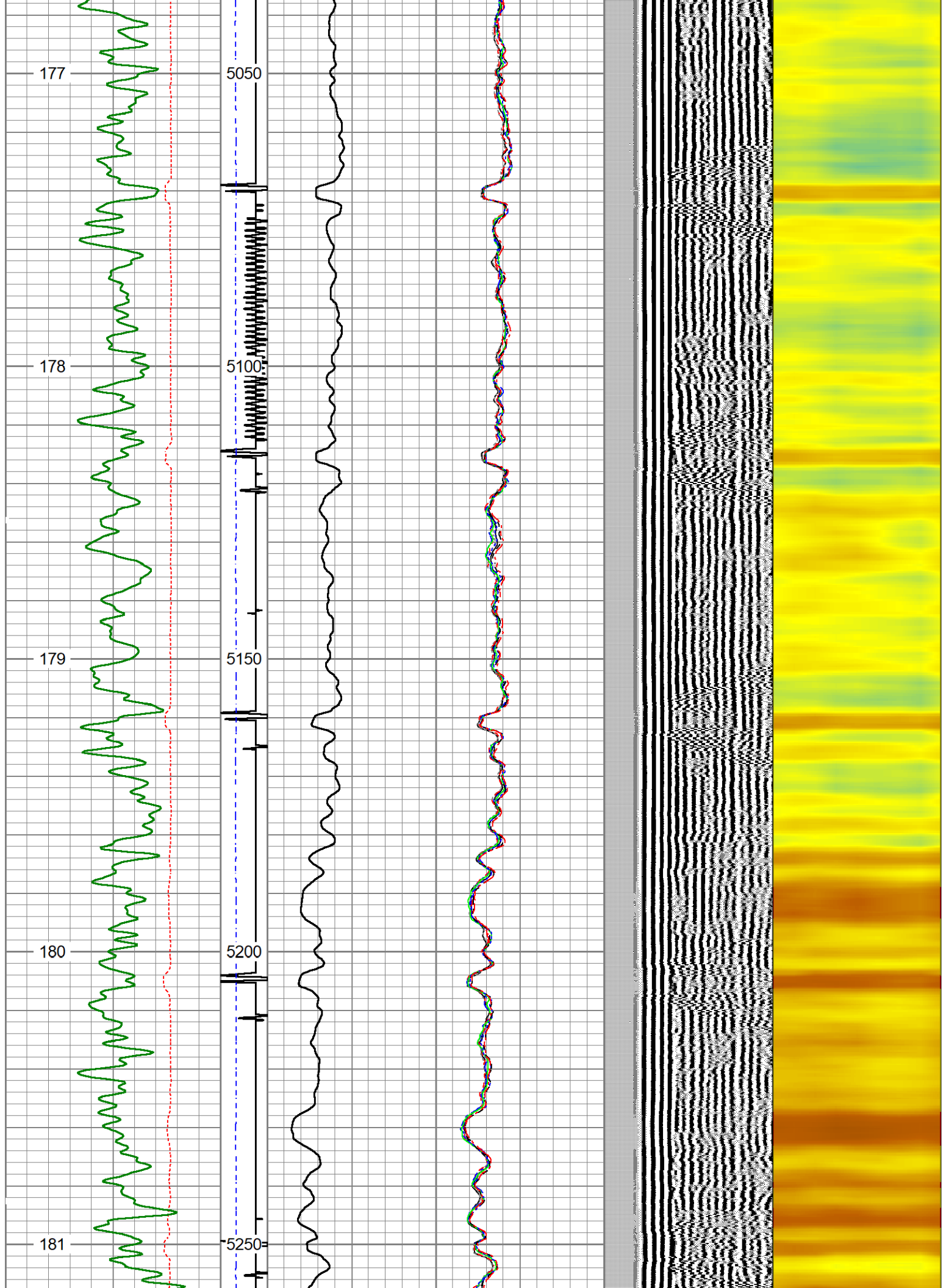


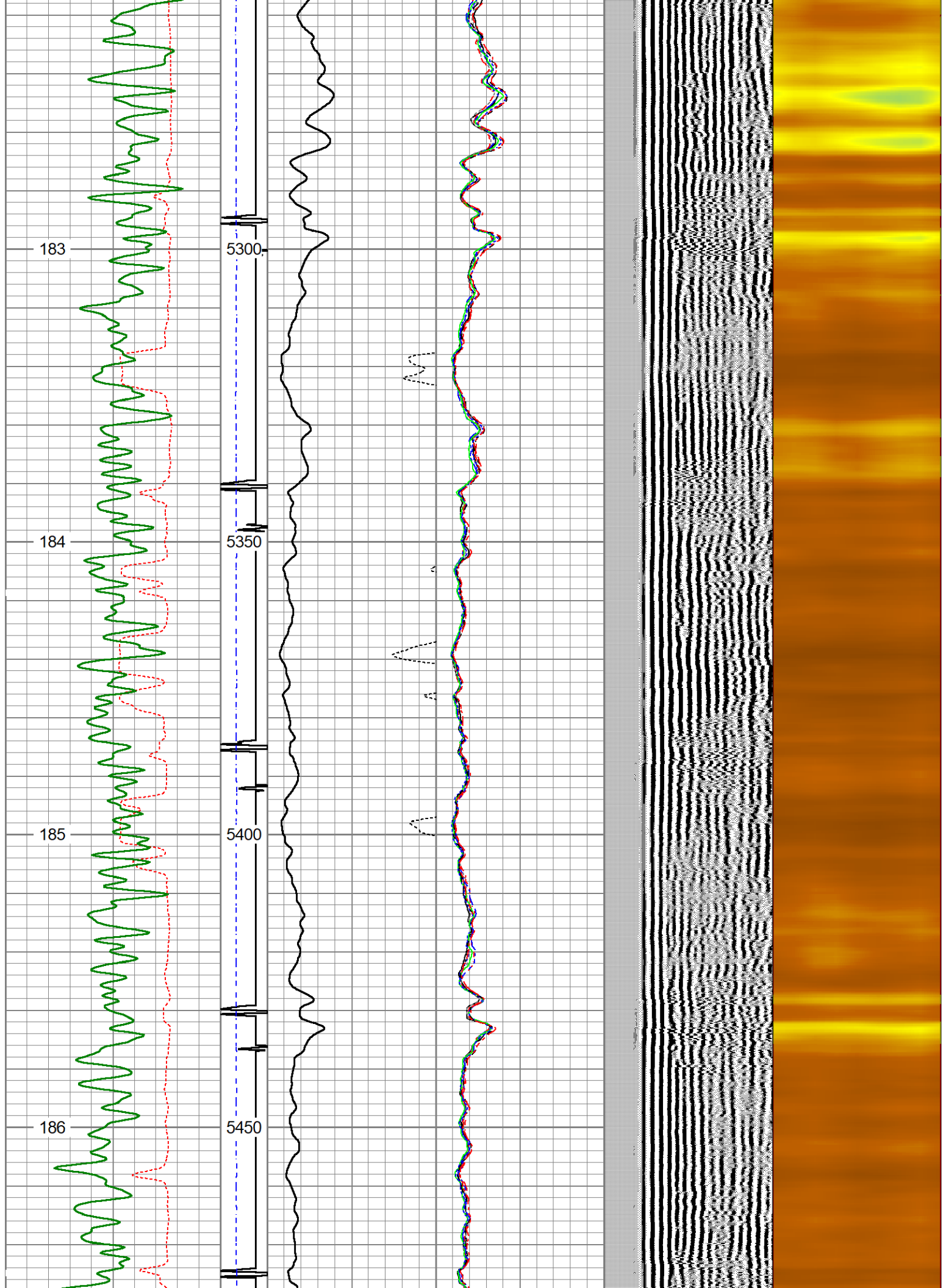




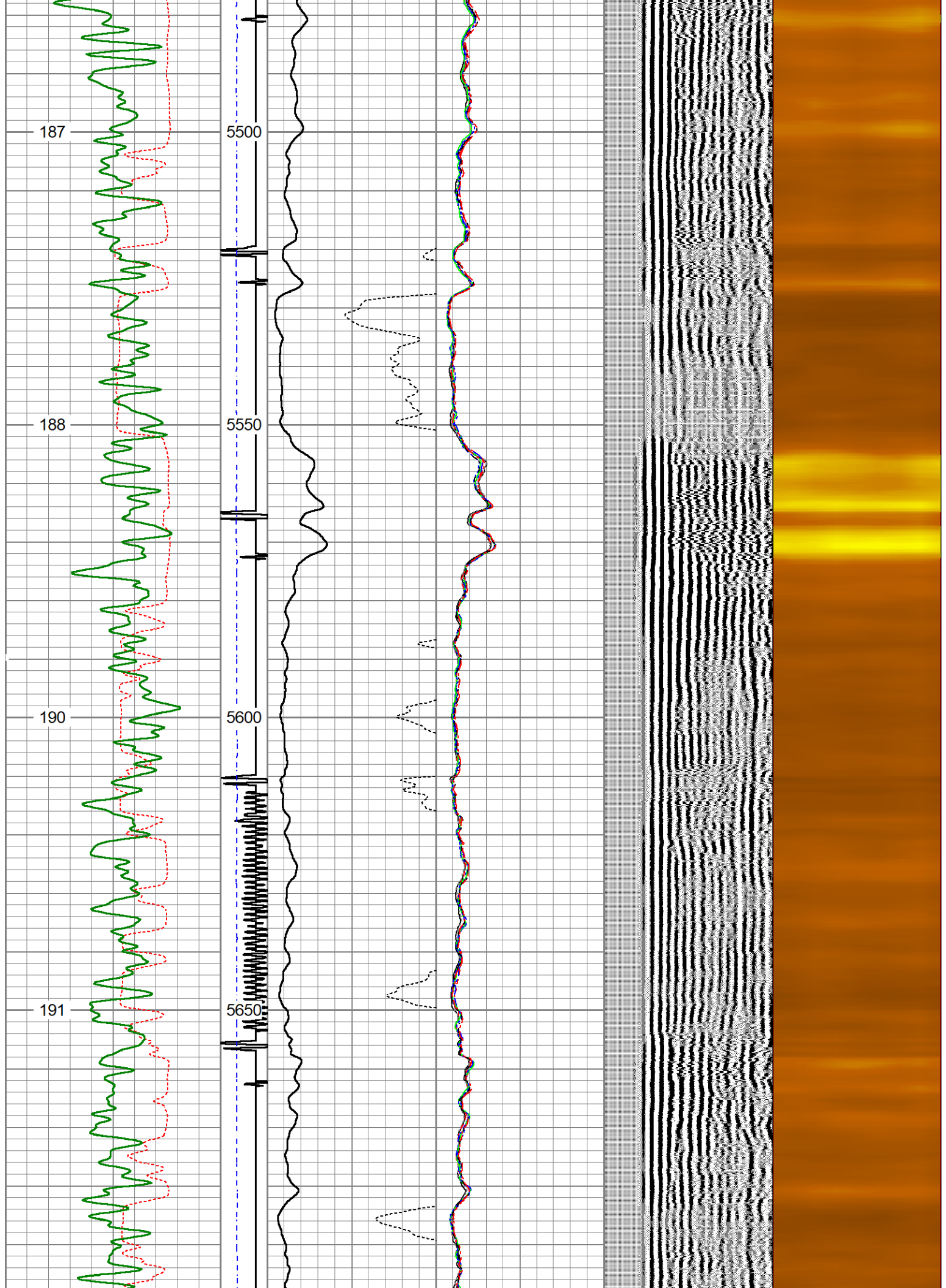


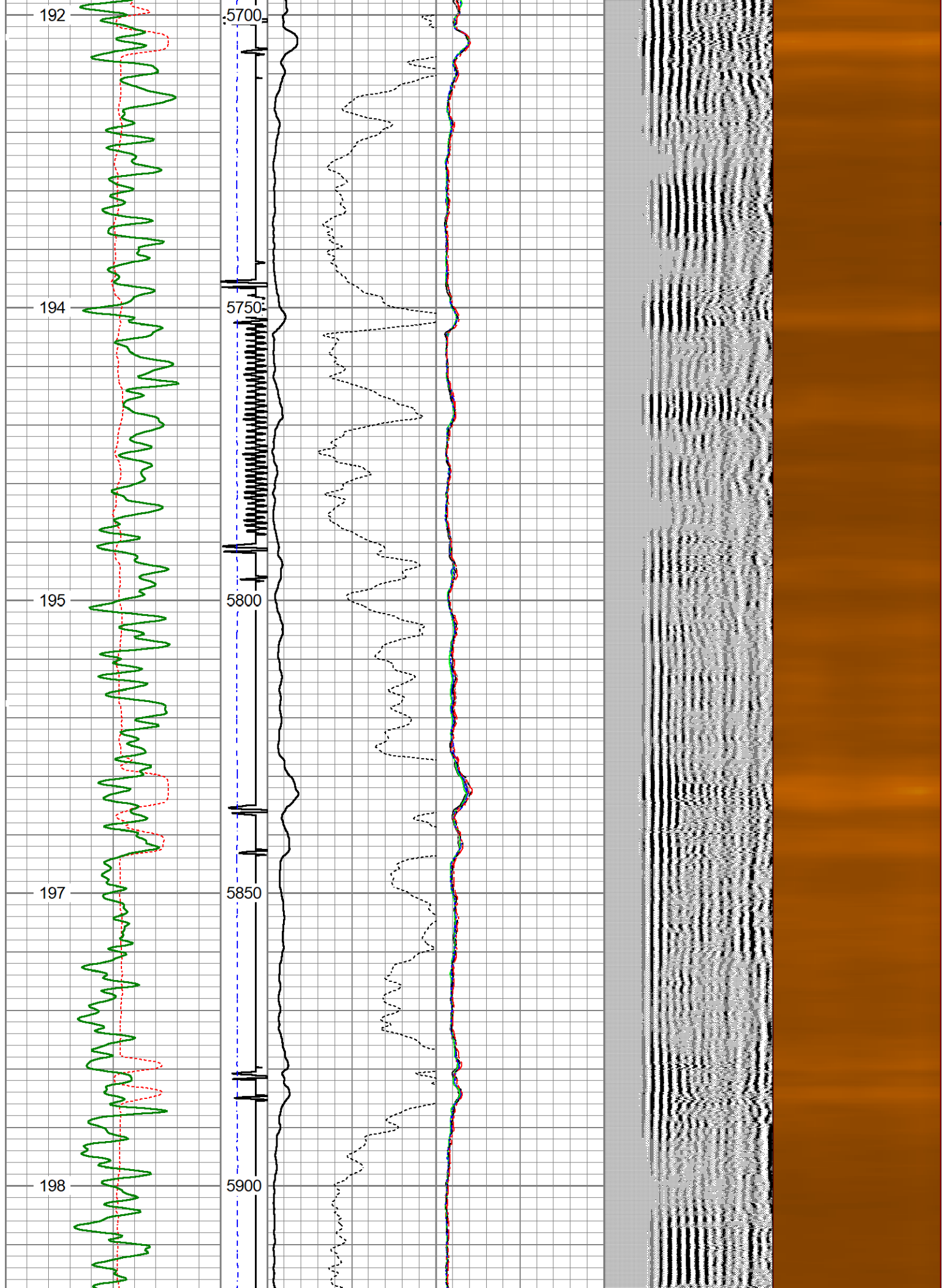




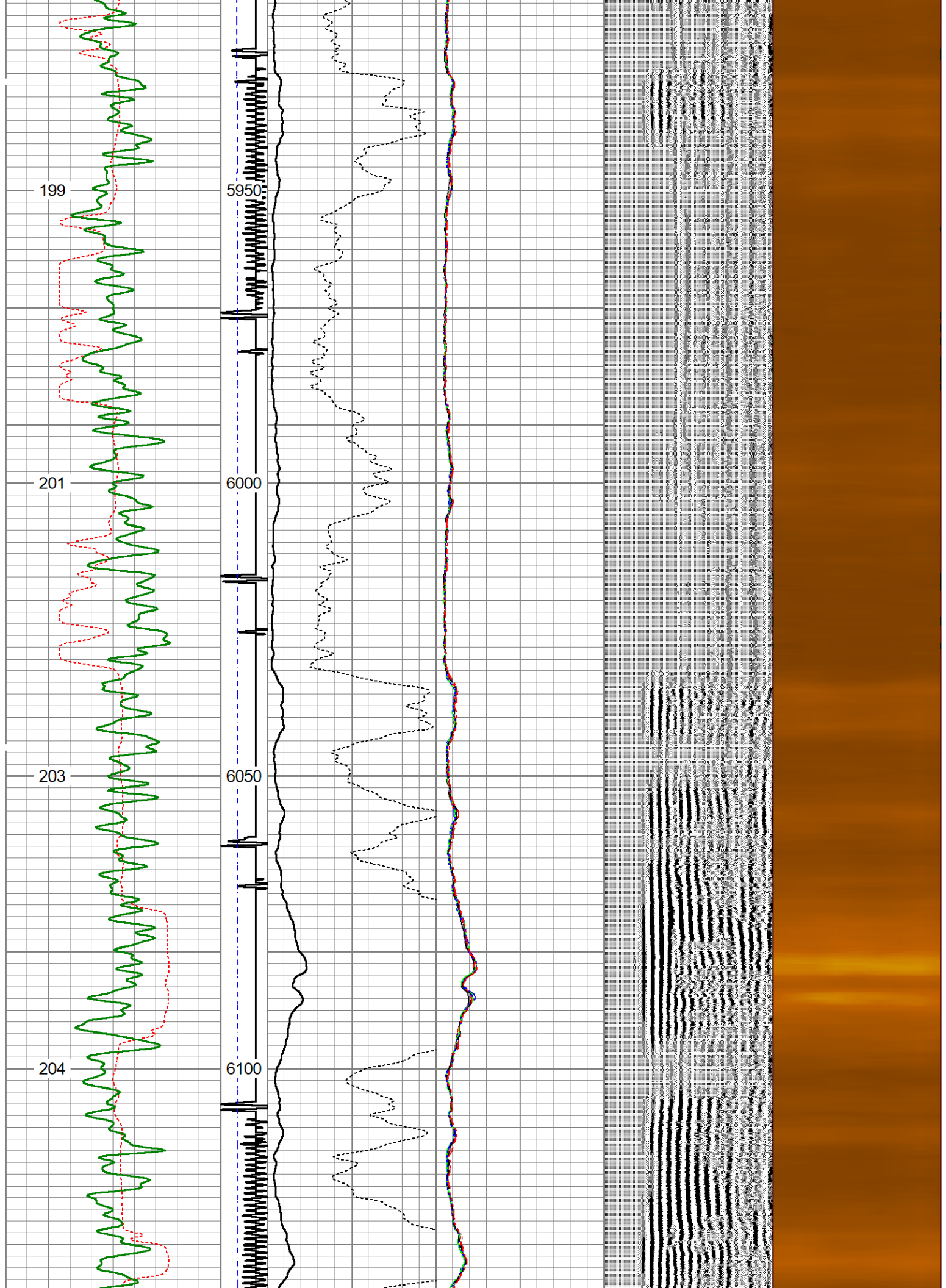


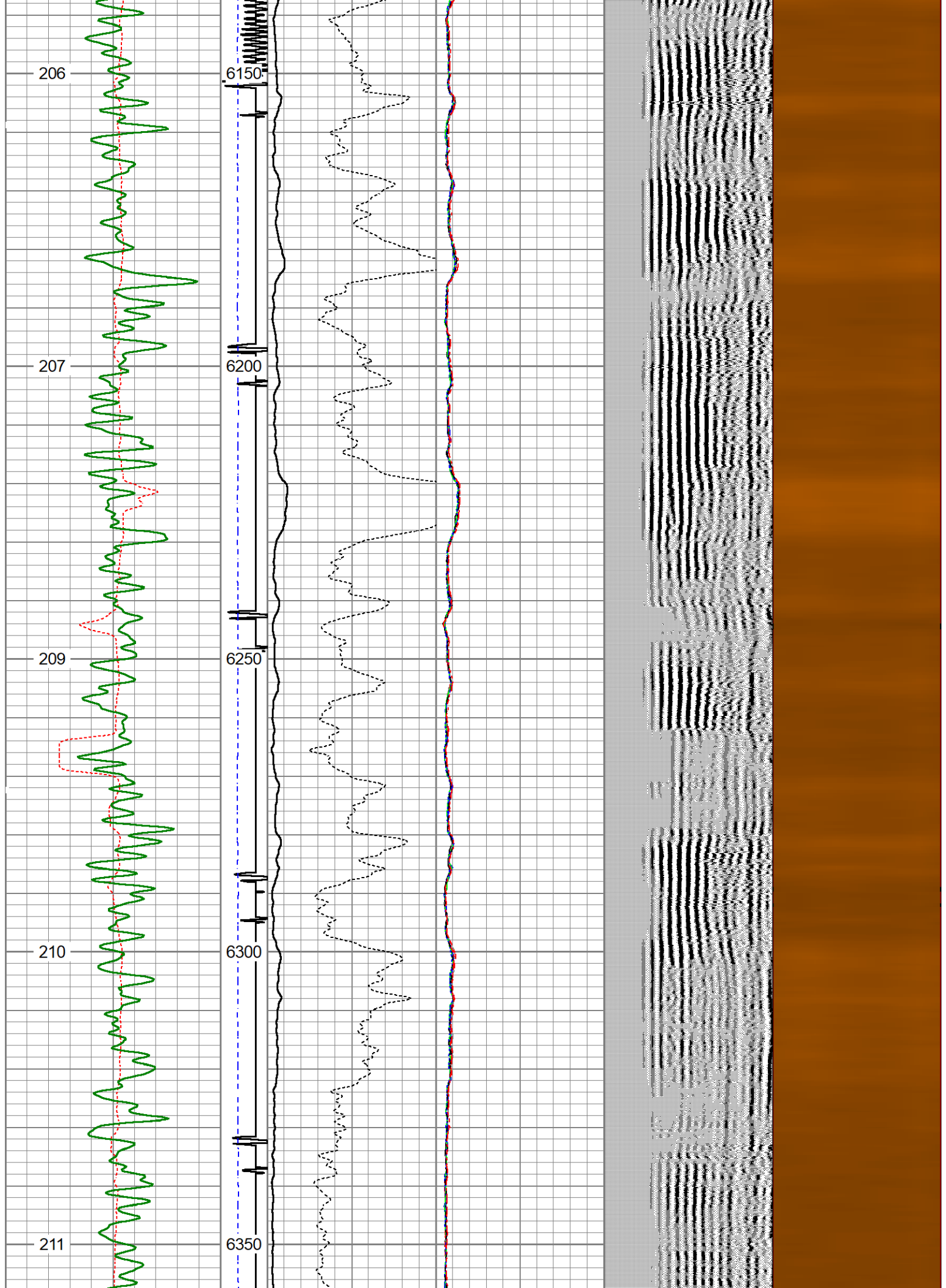




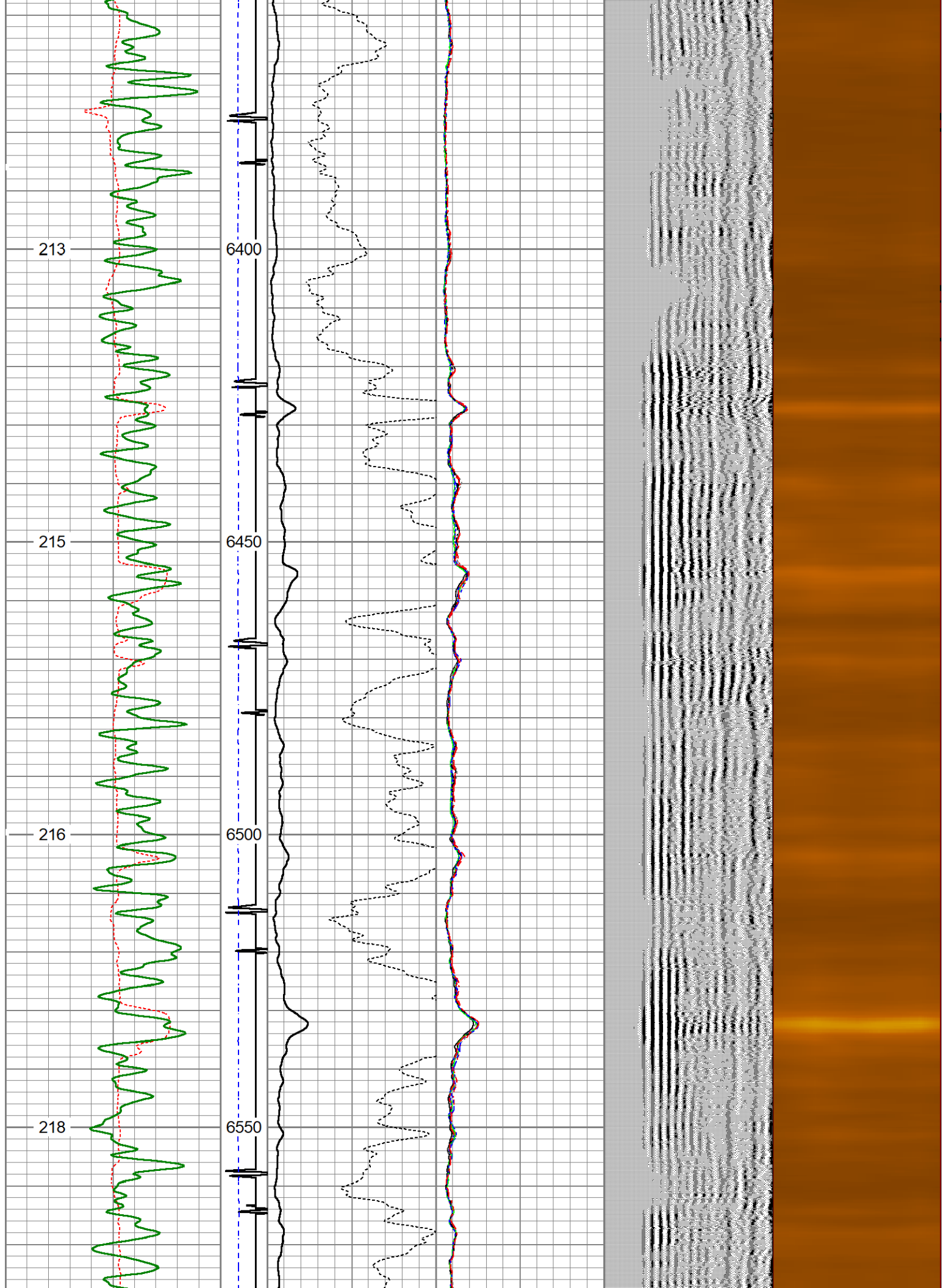






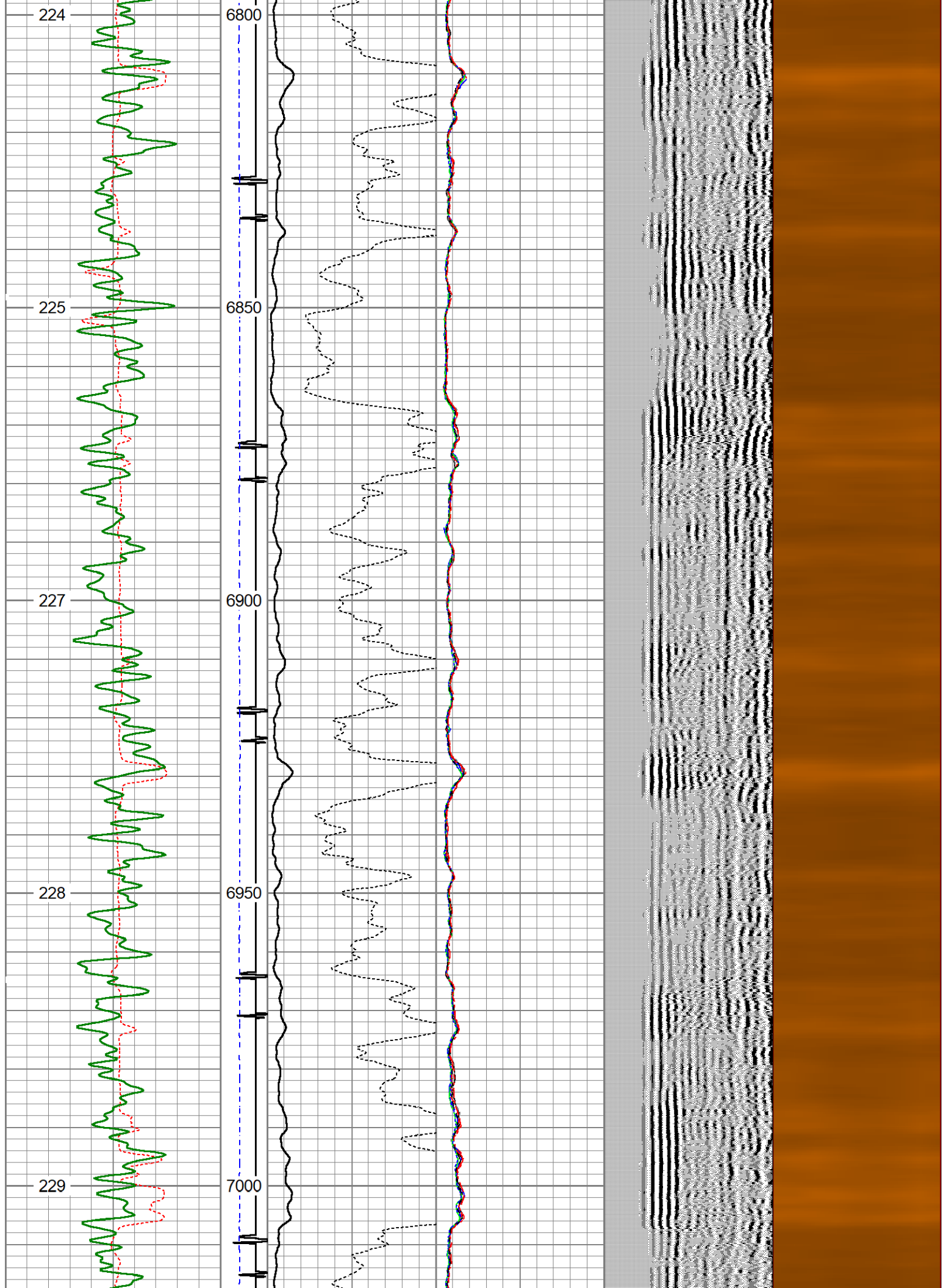


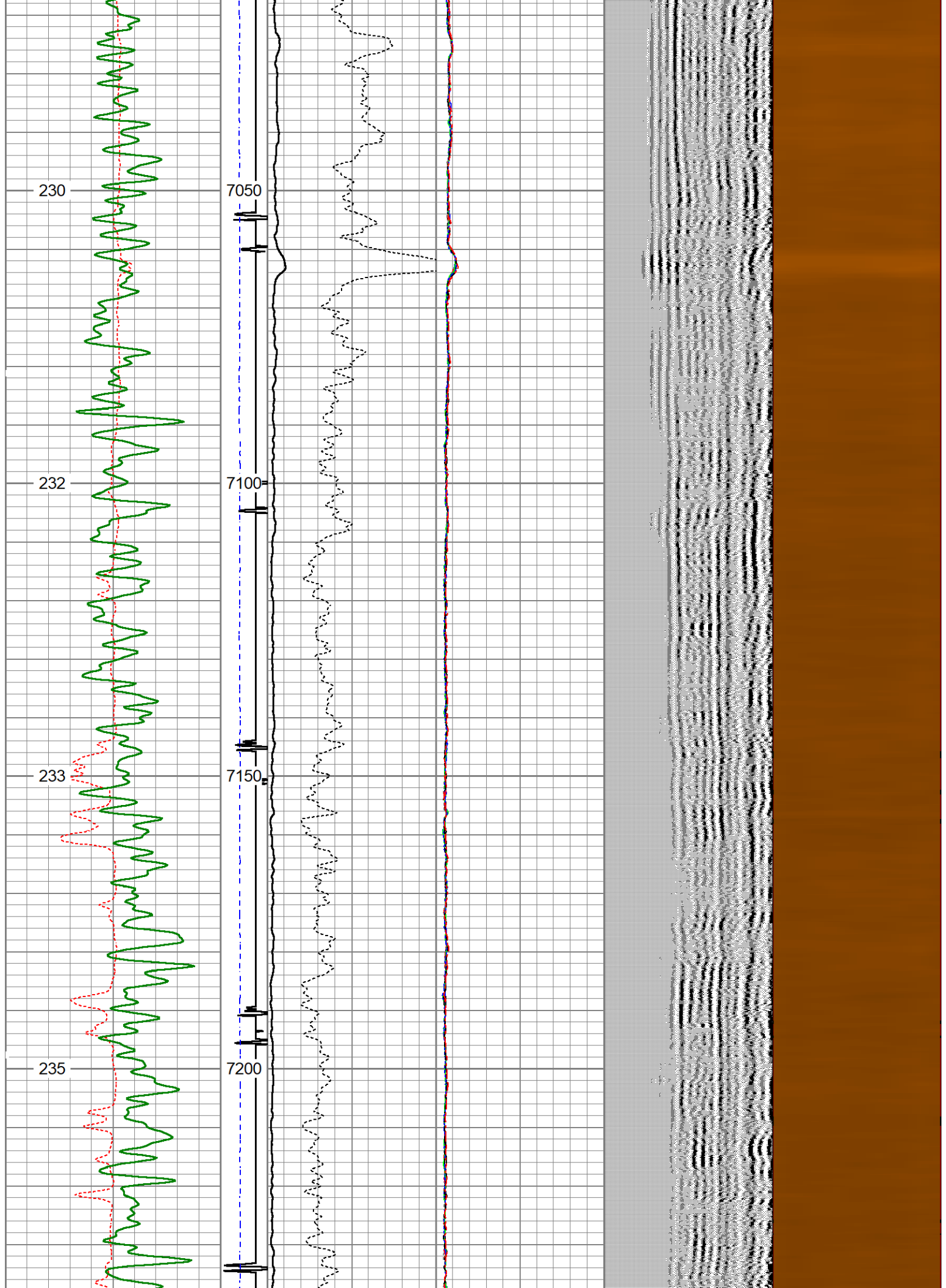






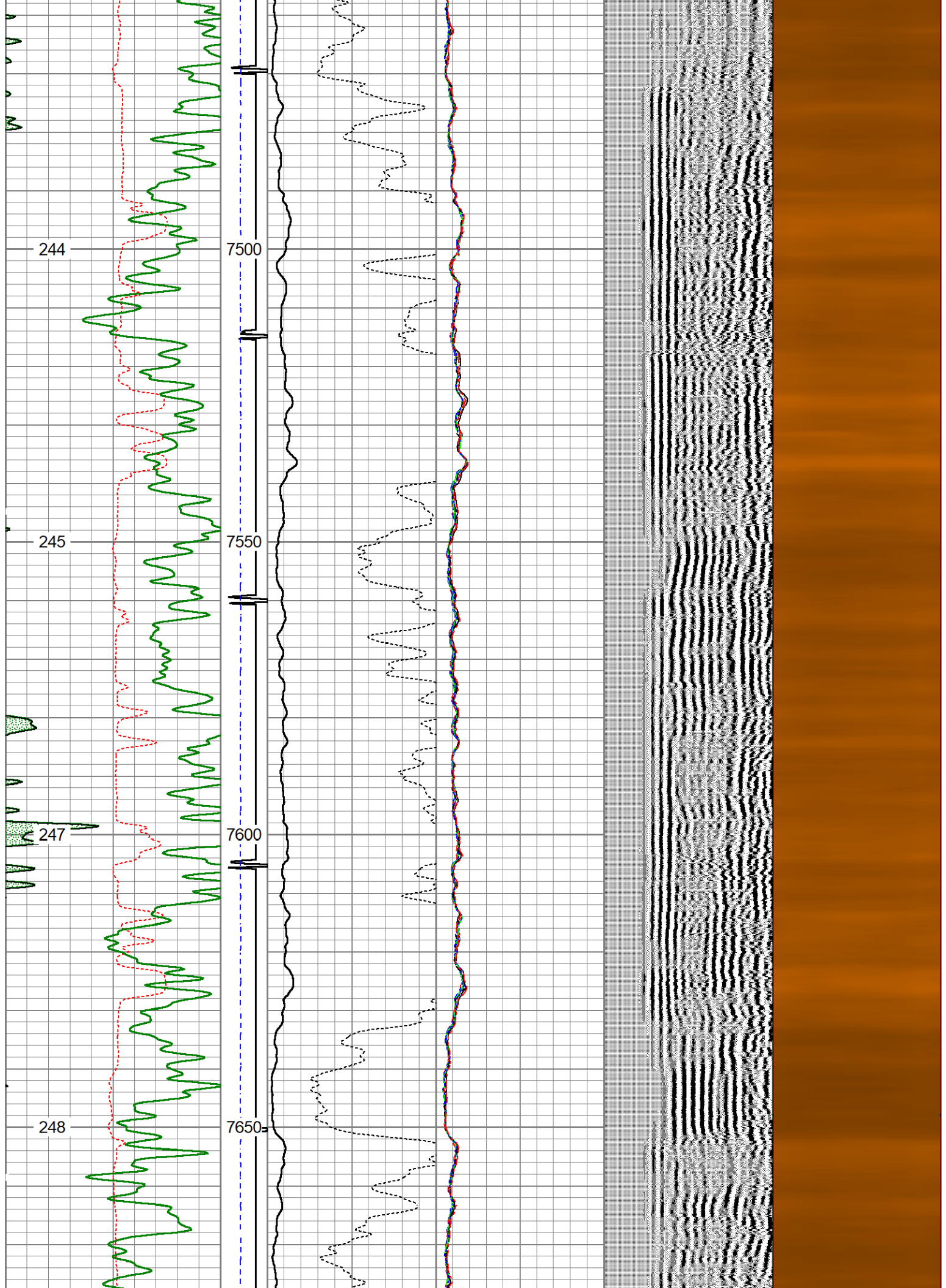




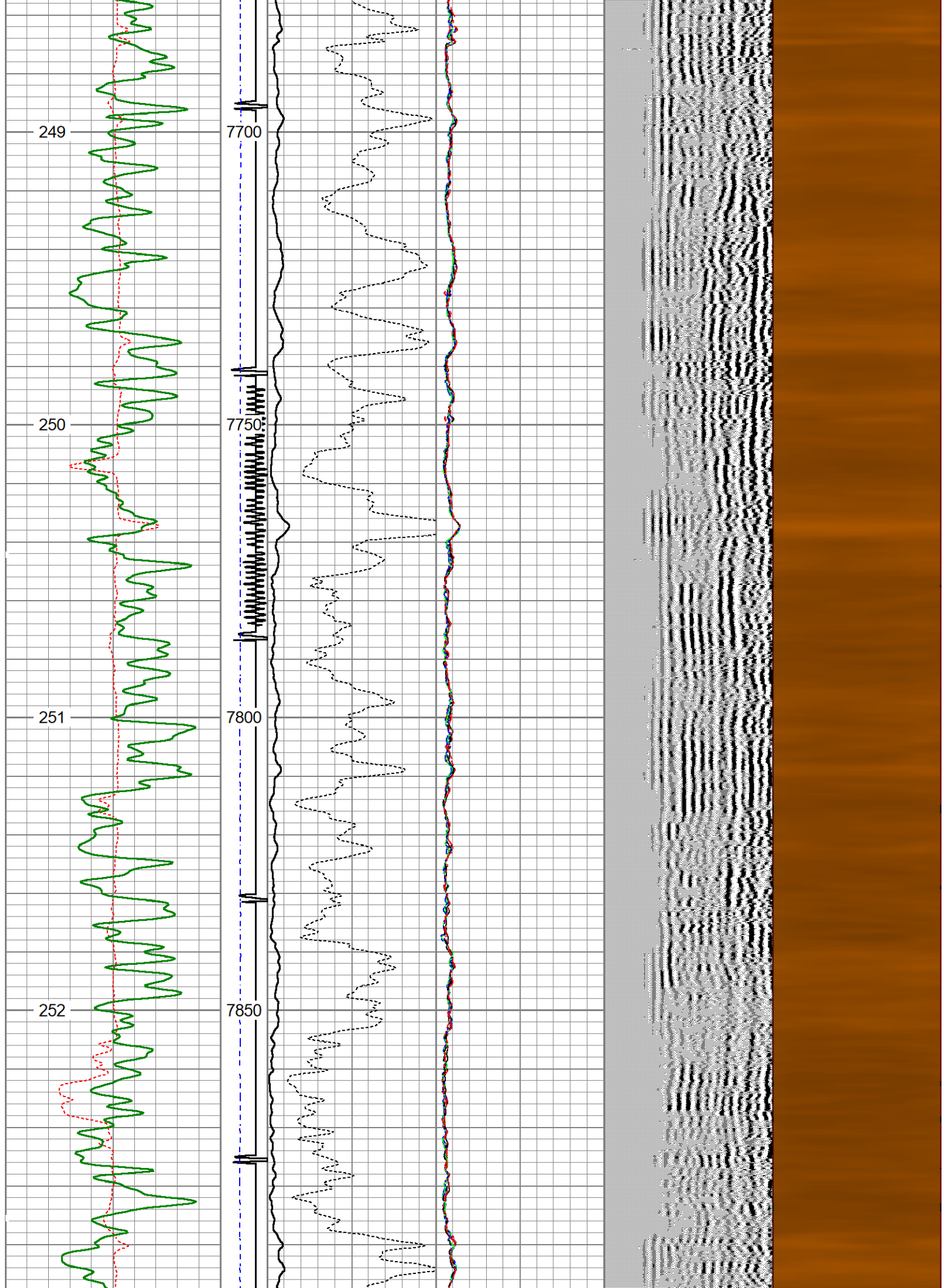


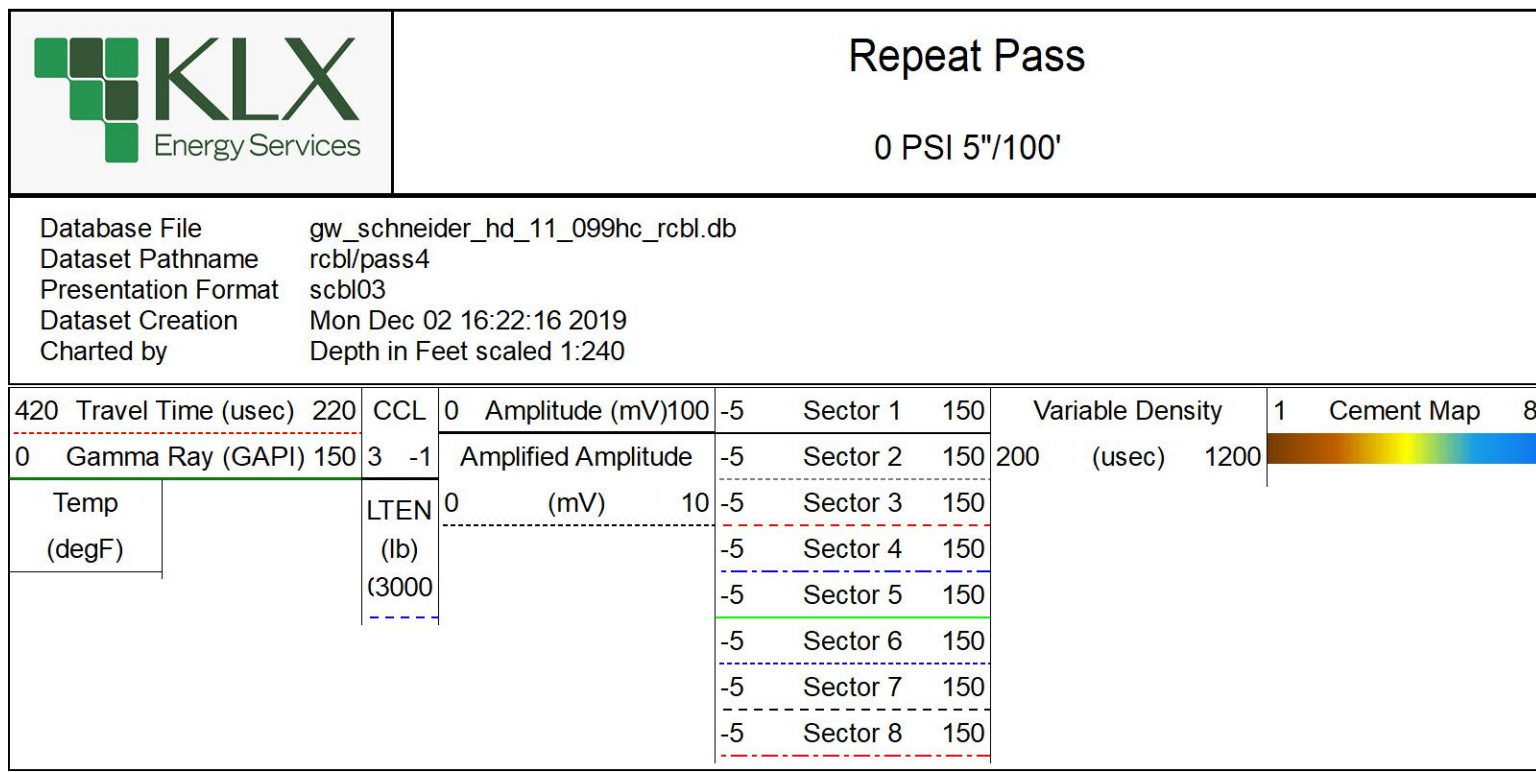
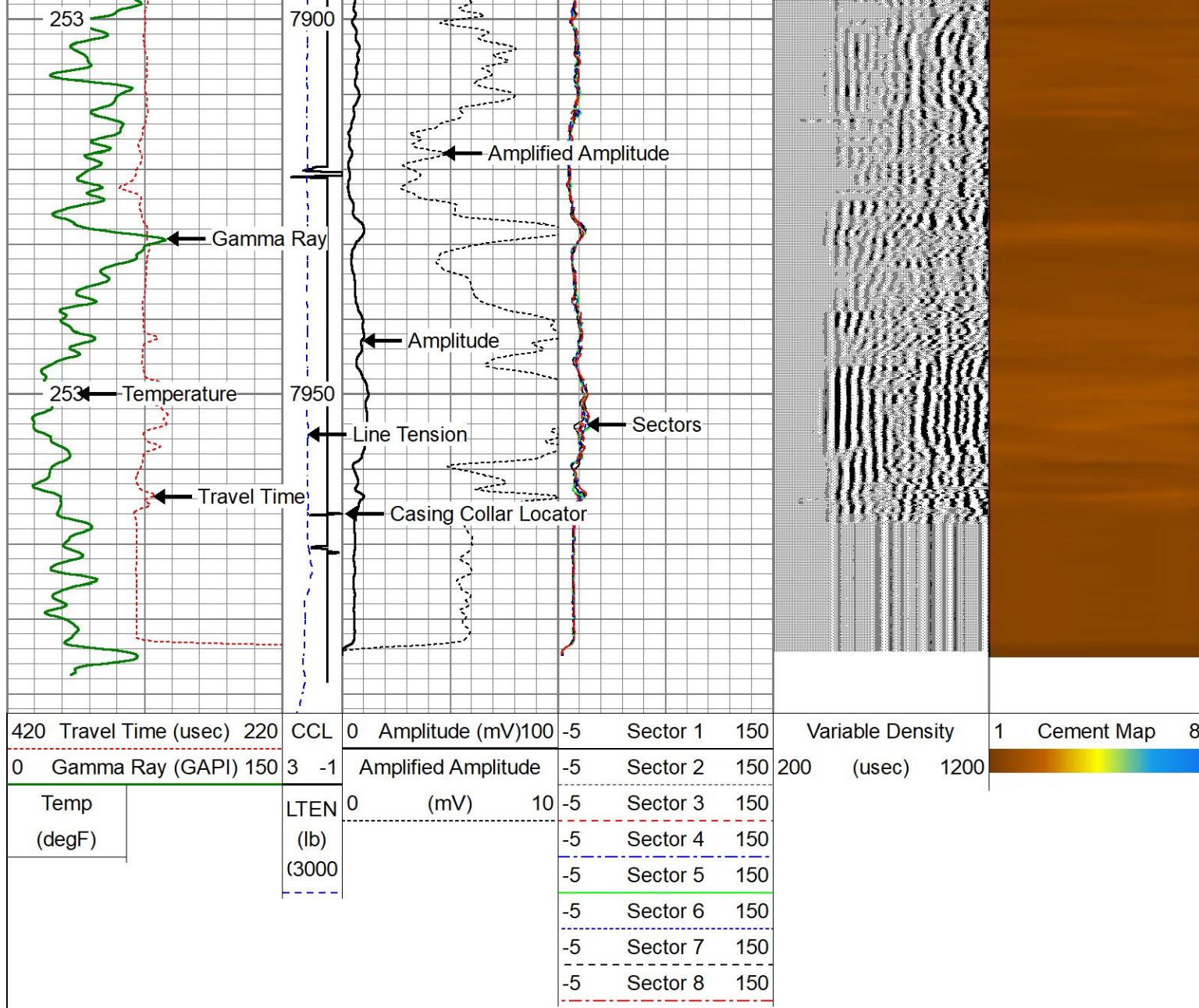










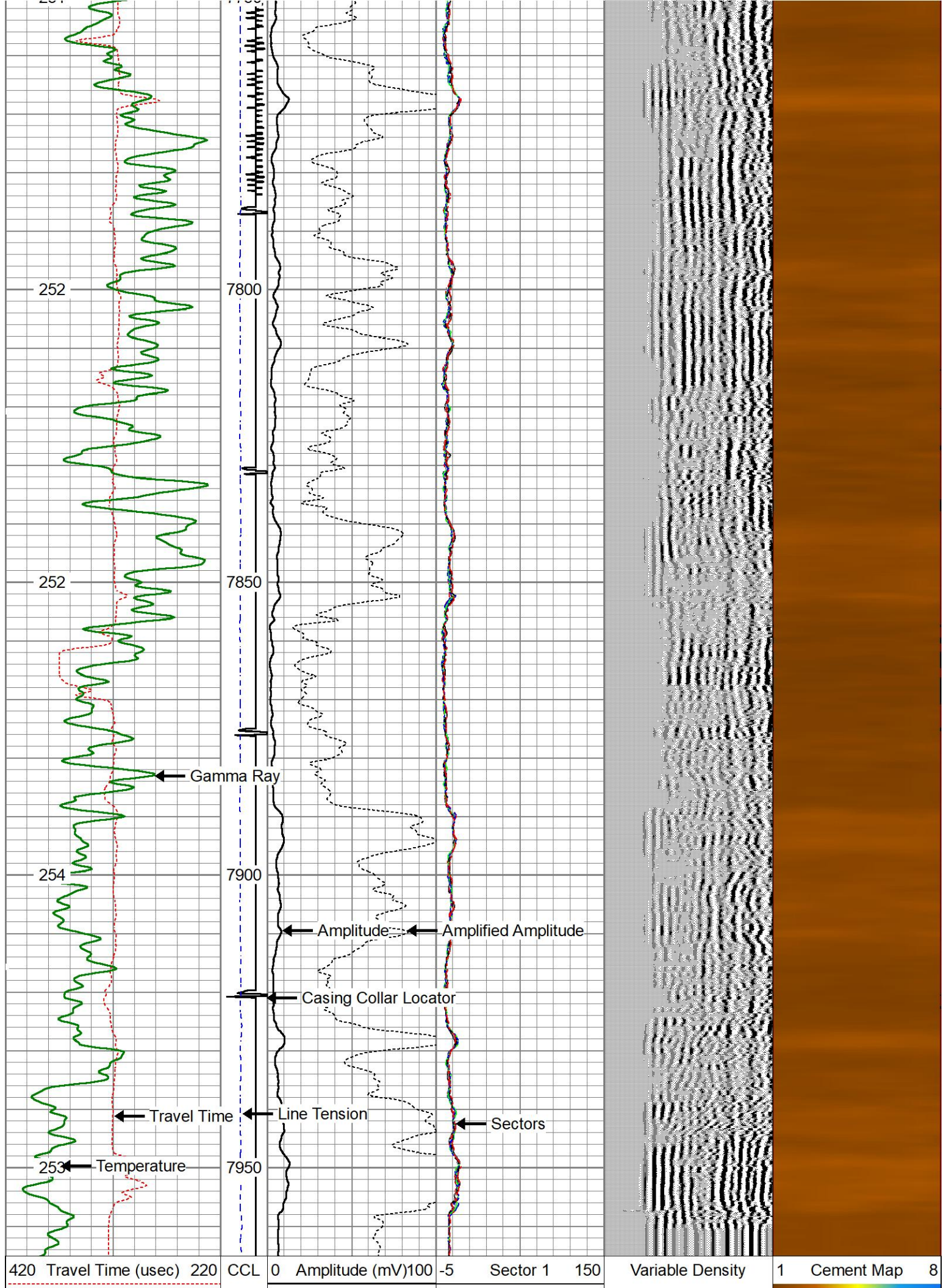


Repeat Pass


0 PSI 5"/100'

Database File gw\_schneider\_hd\_11\_099hc\_rcbl.db  
 Dataset Pathname rcbl/pass4  
 Presentation Format scbl03  
 Dataset Creation Mon Dec 02 16:22:16 2019  
 Charted by Depth in Feet scaled 1:240







0	Gamma Ray (GAPI) 150	3	-1	Amplified Amplitude	-5	Sector 2	150	200	(usec)	1200	
Temp		LTEN	0	(mV)	10	-5	Sector 3	150			
(degF)		(lb)				-5	Sector 4	150			
		(3000				-5	Sector 5	150			
						-5	Sector 6	150			
						-5	Sector 7	150			
						-5	Sector 8	150			

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gw\_schneider\_hd\_11\_099hc\_rcbl.db

Dataset field/well/rcbl/pass8/\_vars\_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in	degF	in	in	lb/ft	mV	mV
	8.5	253	5.5	0	17	72	1
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
db/ft		usec	degF	ft			
0.8	No	263	0	0			

Variable Description

BHTEMP\_Src : BHTEMP Input Source Selector

BOREID : Borehole I.D.

BOTTEMP : Bottom Hole Temperature

CASEOD : Casing O.D.

CASETHCK : Casing Thickness

CASEWGHT : Casing Weight

MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation

PERFS : Perforation Flag

PPT : Predicted Pipe Time

SRFTEMP : Surface Temperature

TDEPTH : Total Depth

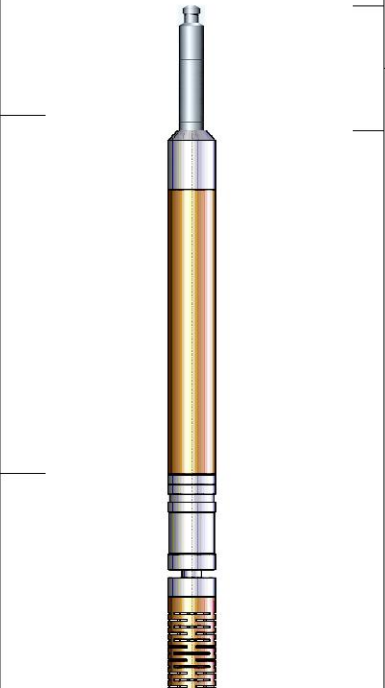
Calibration Report			
Database File	gw_schneider_hd_11_099hc_rcbl.db		
Dataset Pathname	rcbl/pass4		
Dataset Creation	Mon Dec 02 16:22:16 2019		
Gamma Ray Calibration Report			
Serial Number:	FW1304-44		
Tool Model:	Probe275		
Performed:	Wed Nov 27 12:25:12 2019		
Calibrator Value:	1036.2	GAPI	
Background Reading:	64.0	cps	
Calibrator Reading:	1252.4	cps	
Sensitivity:	0.8719	GAPI/cps	
Segmented Cement Bond Log Calibration Report			
Serial Number:	FW1306-47		
Tool Model:	Probe 2.75 Radii W/Temp		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	3289.117	ft	
Master Calibration, performed Mon Dec 02 16:01:10 2019:			
Raw (v)		Calibrated (mv)	Results

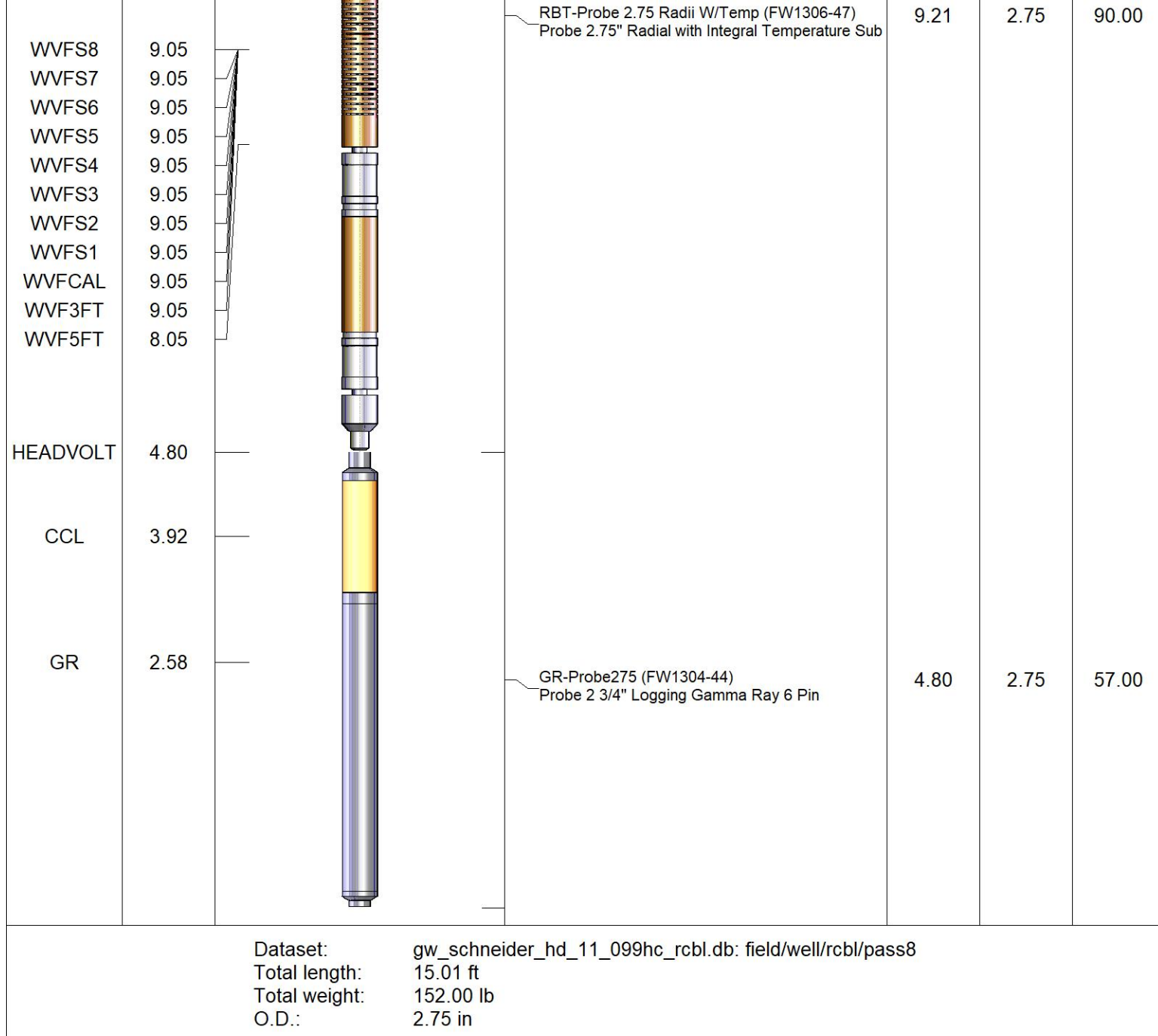


	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	0.390	1.000	71.921	185.346	-0.353
CAL	0.007	0.751				
5'	0.008	0.304	1.000	71.921	239.581	-0.860
SUM						
S1	0.008	0.404	0.000	100.000	252.131	-1.970
S2	0.009	0.478	0.000	100.000	213.172	-1.887
S3	0.007	0.485	0.000	100.000	209.386	-1.554
S4	0.007	0.422	0.000	100.000	241.019	-1.756
S5	0.008	0.392	0.000	100.000	260.146	-1.972
S6	0.008	0.376	0.000	100.000	271.330	-2.120
S7	0.009	0.360	0.000	100.000	284.435	-2.486
S8	0.009	0.370	0.000	100.000	276.402	-2.396

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.751	1.000	0.000

Air Zero Calibration, performed Sun Dec 01 16:00:54 2019:						
	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)
HeadVolt	14.13		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	11.28					



	Company	Great Western Oil & Gas		
	Well	Schneider HD 11-099HC		
	Field	Wattenberg		
	County	Weld		
	State	Colorado		
				Country USA