



Radial Cement Bond
w/ Variable Density,
Gamma Ray w/ CCL, Temp Log
Final Print 0 PSI

Company		Great Western Oil & Gas Company					
Well		Schneider HD 11-219HNX					
Field		Wattenberg					
County		Weld					
State		Colorado					
Location:		API # : 05-123-46412					
		NWSW 40.324385 / -104.826260					
Permanent Datum		GL	Elevation 4,735				
Log Measured From		KB					
Drilling Measured From		KB					
SEC 7		TWP 4N	RGE 66W				
Other Services		Gauge Ring					
Date		7-Nov-2019					
Run Number		One					
Depth Driller		17,405'					
Depth Logger		7,334'					
Bottom Logged Interval		7,332'					
Top Log Interval		Surface					
Open Hole Size		8-1/2"					
Type Fluid		Water					
Density / Viscosity							
Max. Recorded Temp.		242					
Estimated Cement Top							
Time Well Ready		1830					
Time Logger on Bottom		1900					
Equipment Number		60					
Location		Platteville, CO					
Recorded By		H.Hill					
Witnessed By		E.Savoya					
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size		Mgt/Ft		Top		Bottom
Surface String	9-5/8"		36# J55		Surface		1,593'
Prot. String							
Production String	5-1/2"		17# P110		Surface		17,405'
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 6748' - 6758'

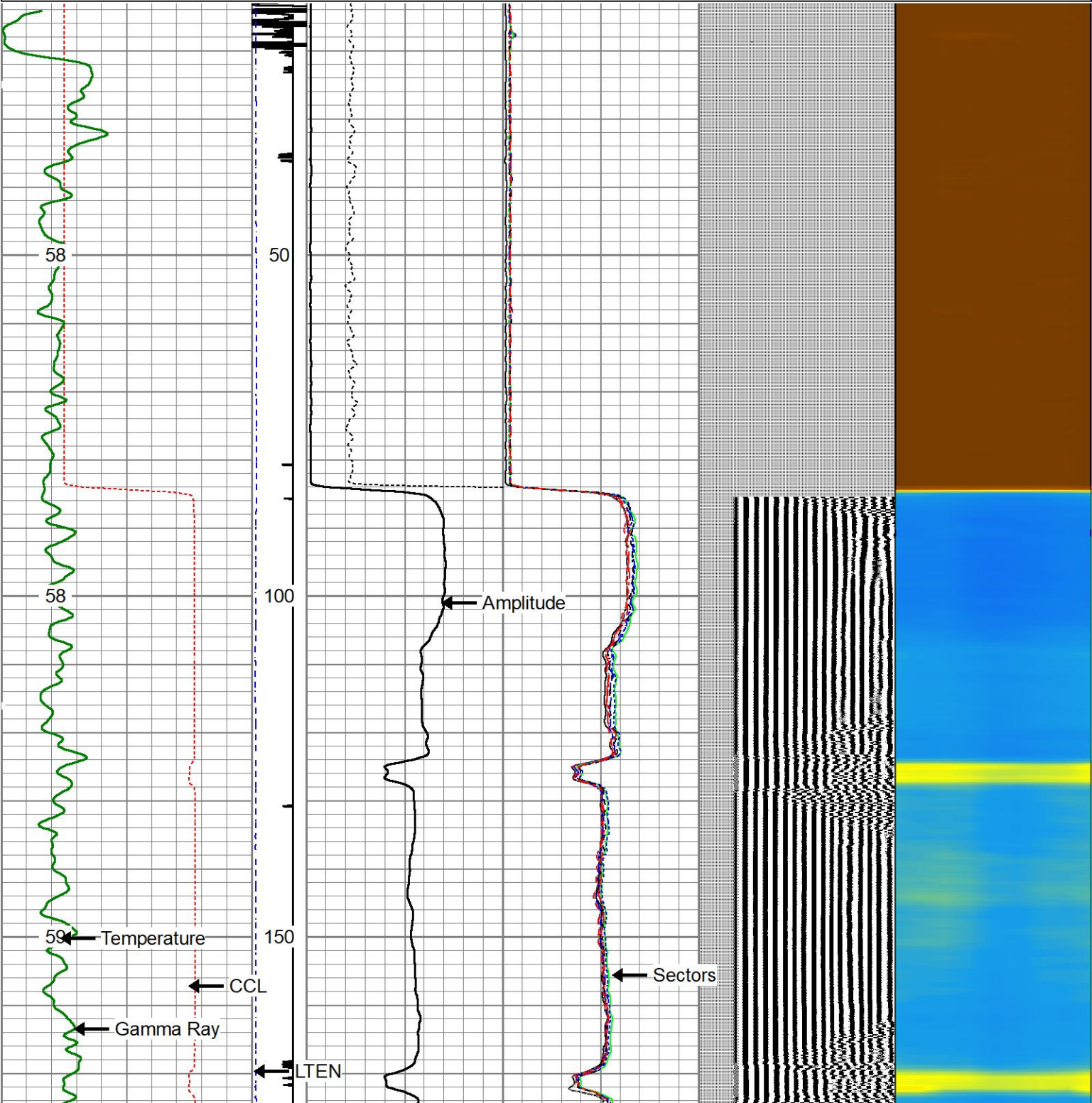
Thank you for using KLX Energy Services

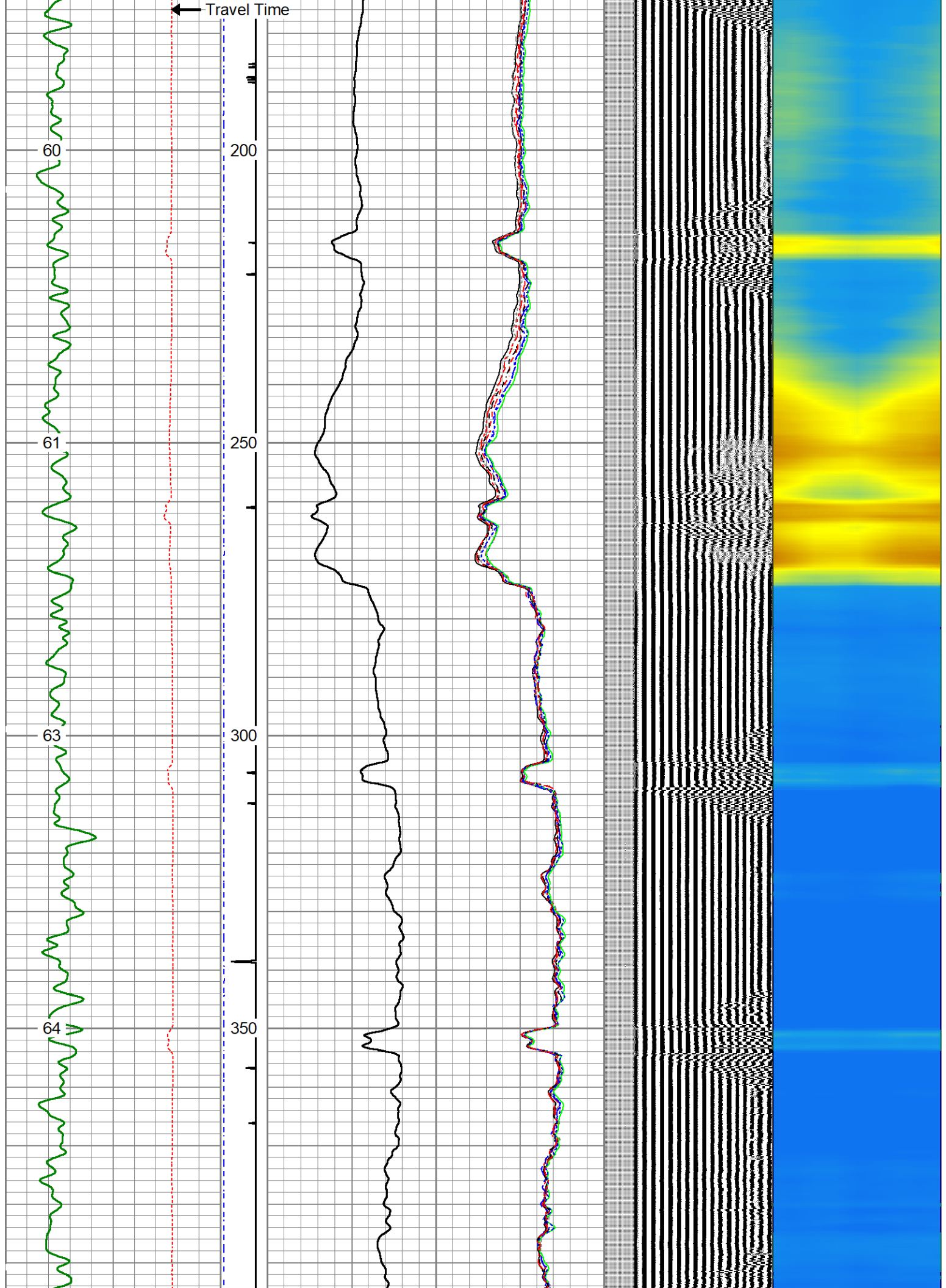


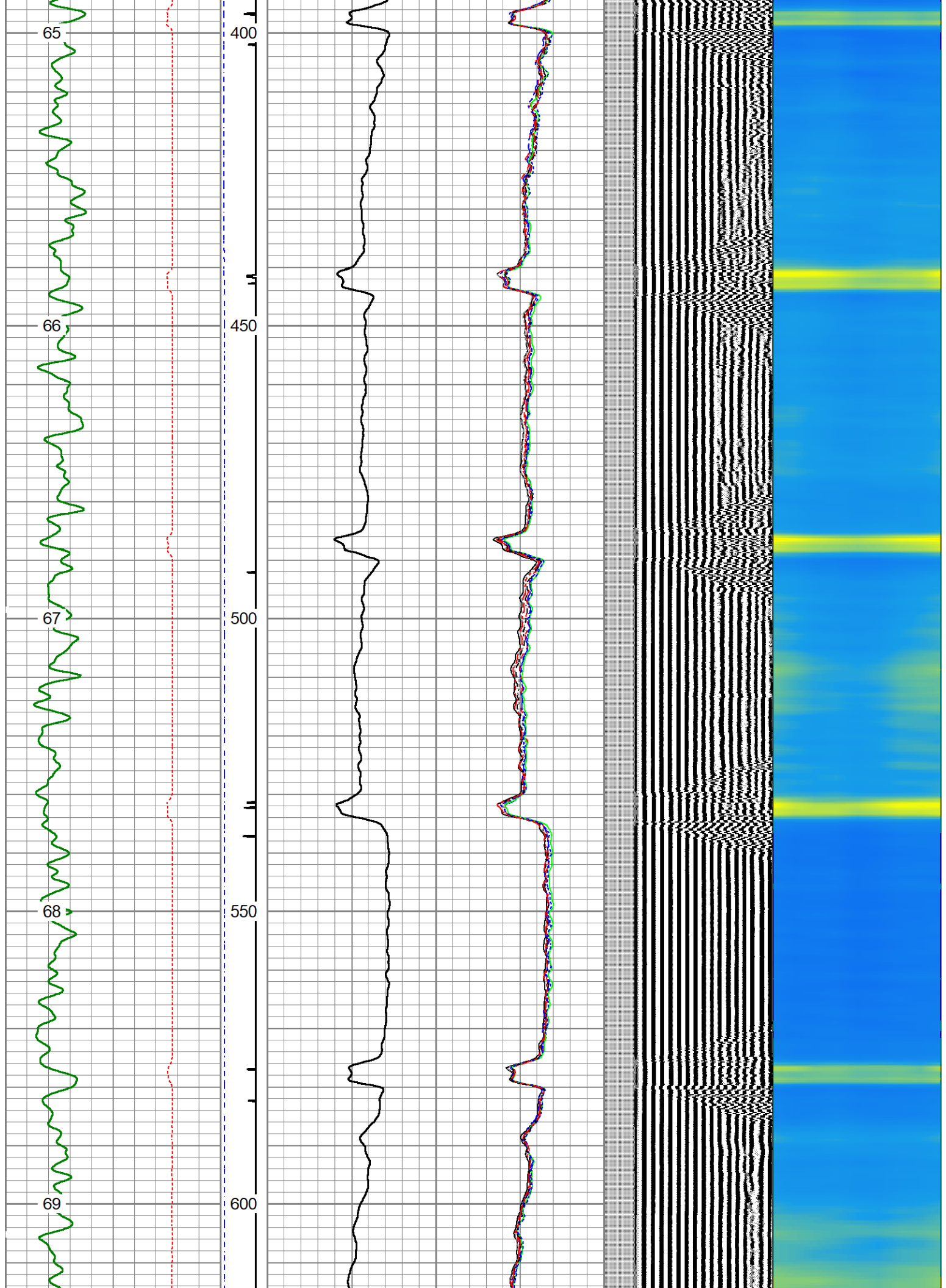
Main Pass - 5"/100'

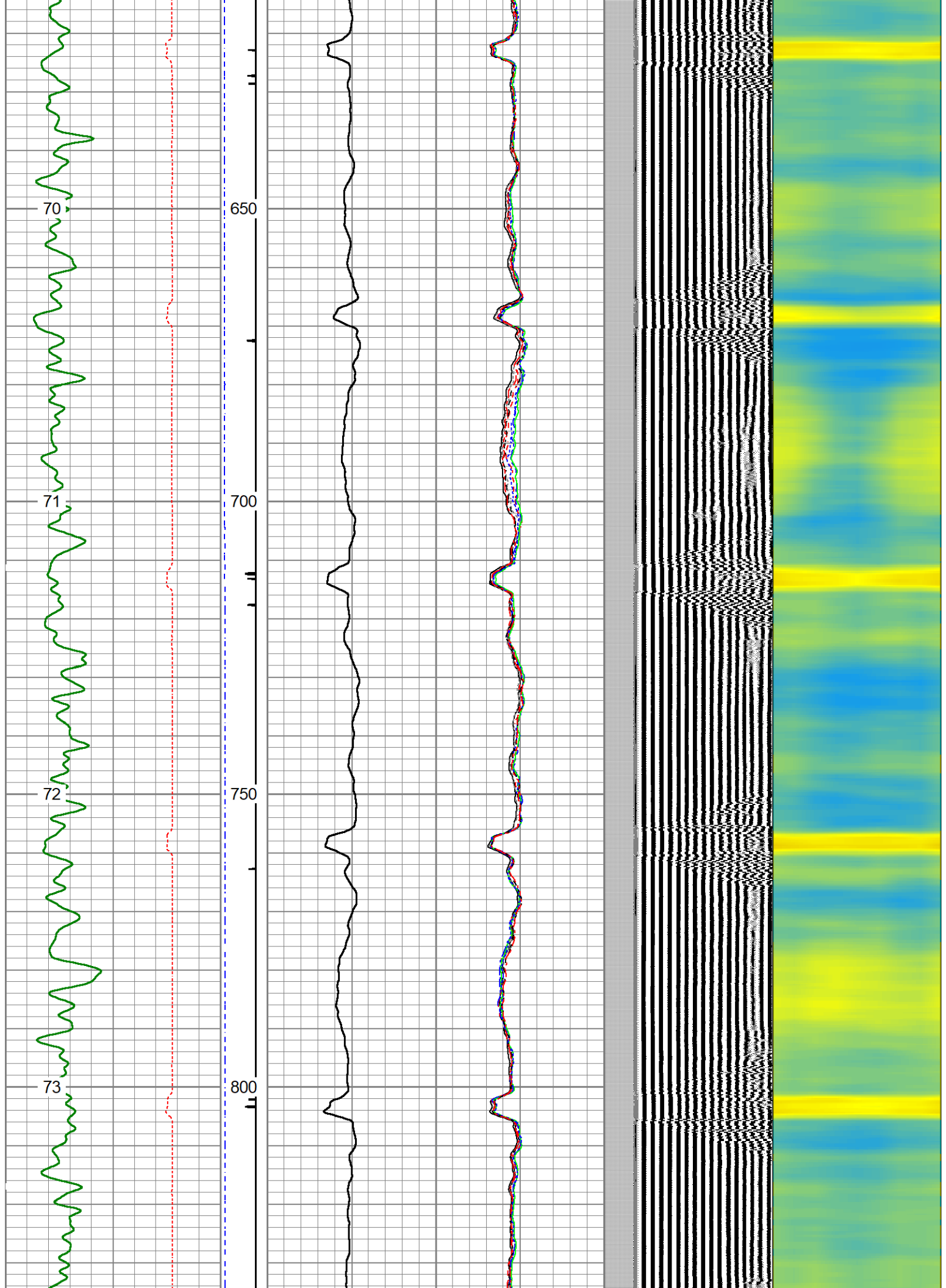
0 PSI

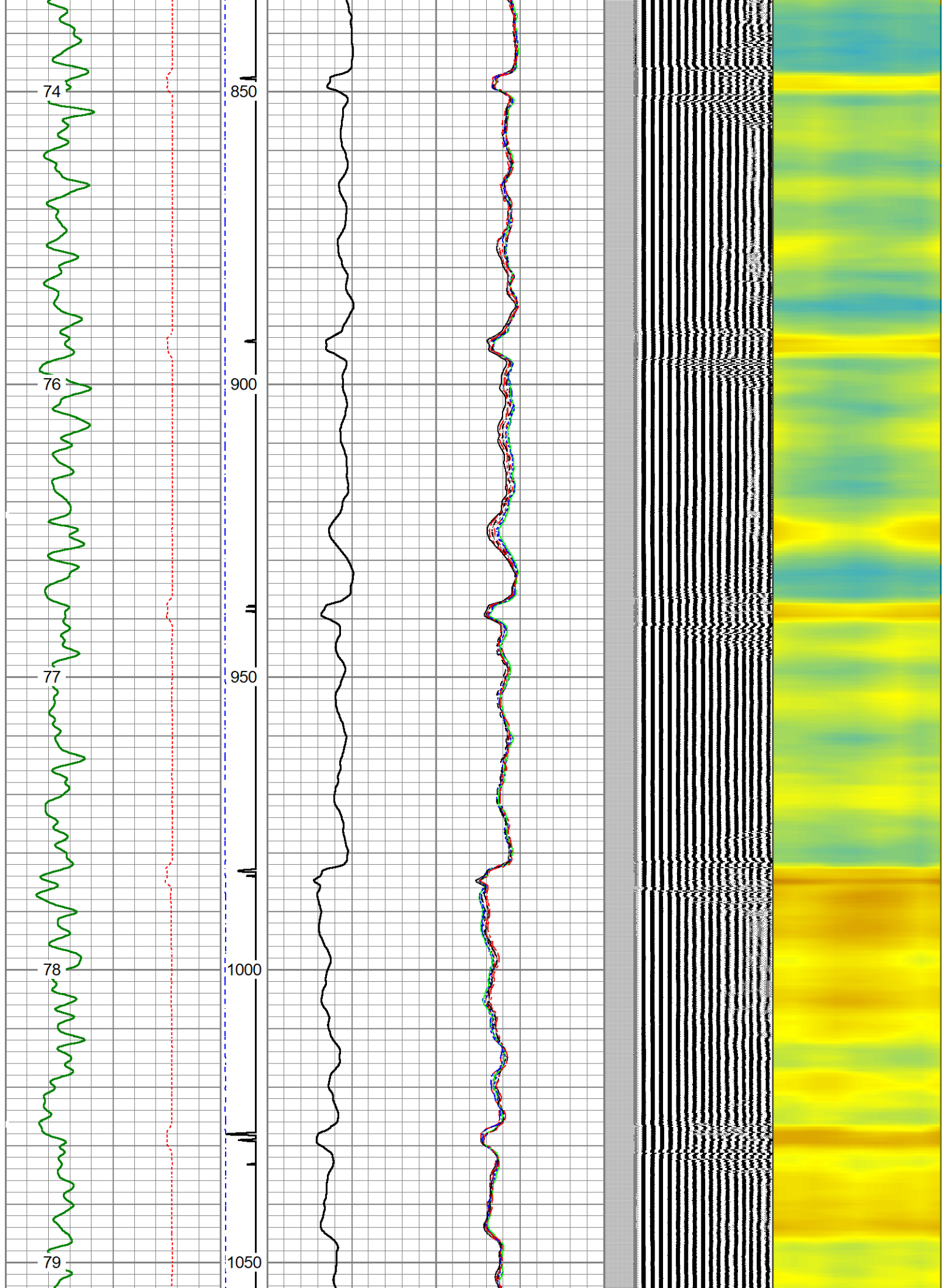
Database File	schneider_hd_11_219hnx_rcbl.db									
Dataset Pathname	pass8									
Presentation Format	scbl03									
Dataset Creation	Thu Nov 07 19:06:08 2019									
Charted by	Depth in Feet scaled 1:240									
420	Travel Time (usec)	220	CCL	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density
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	

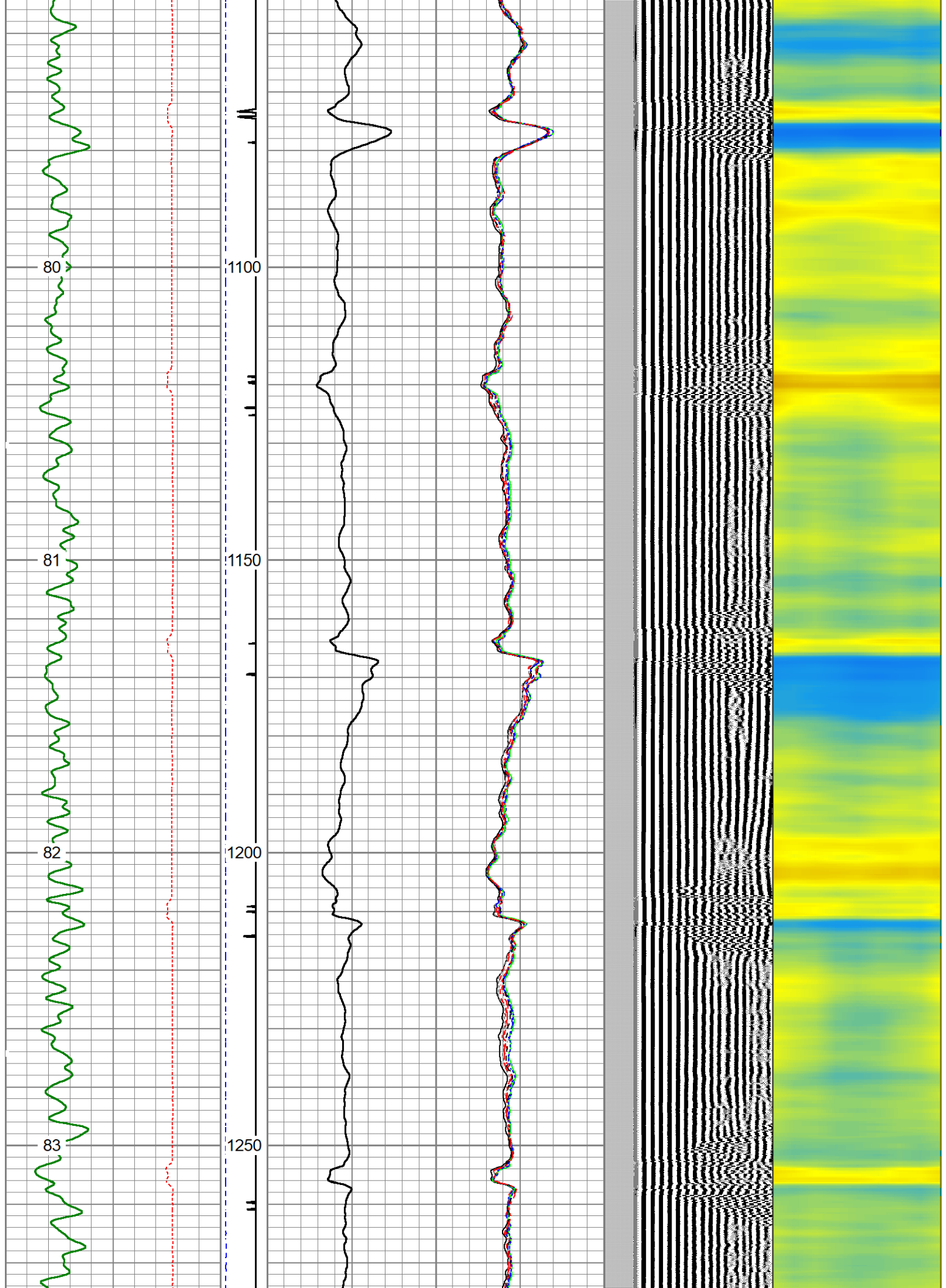


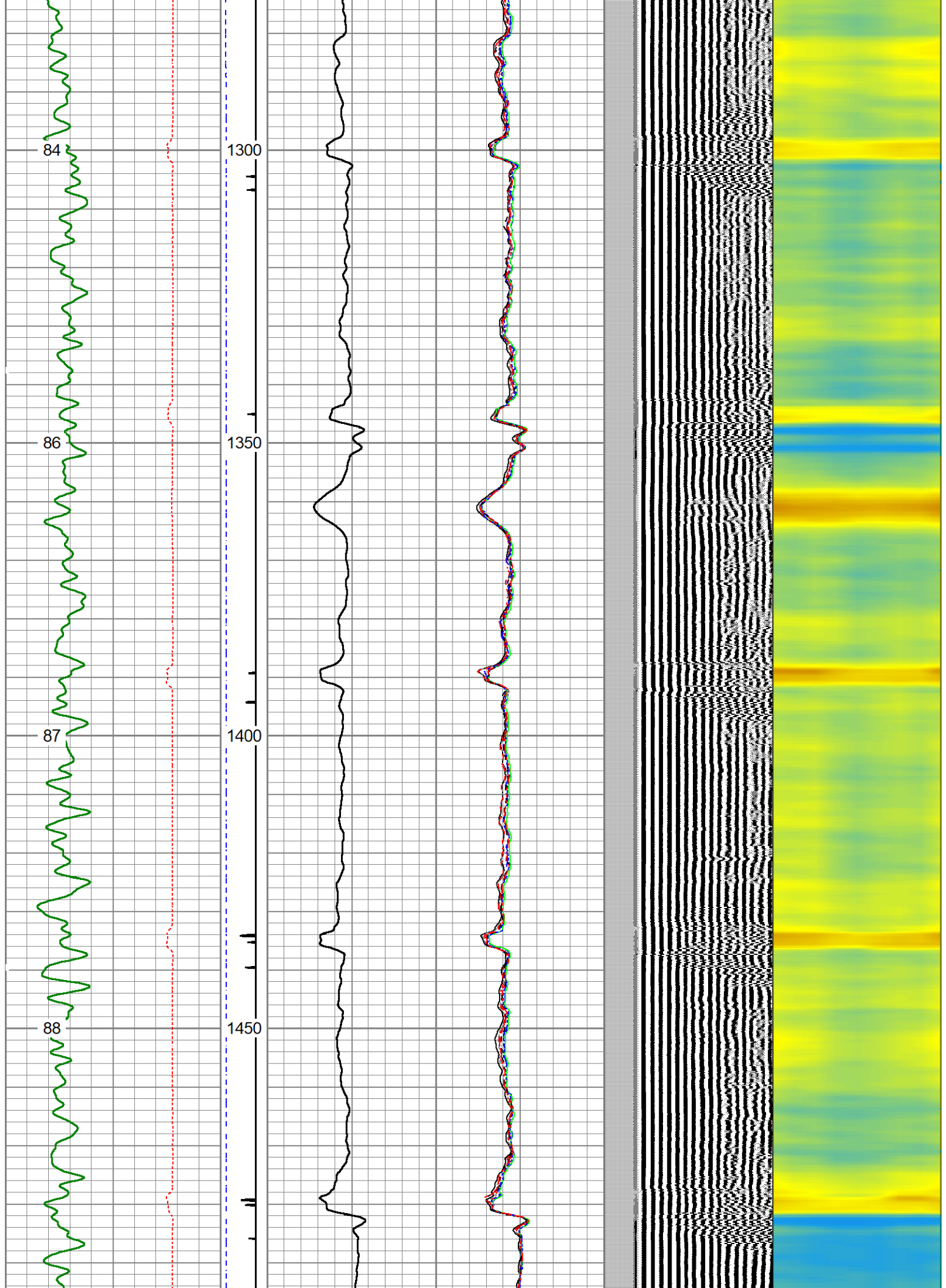


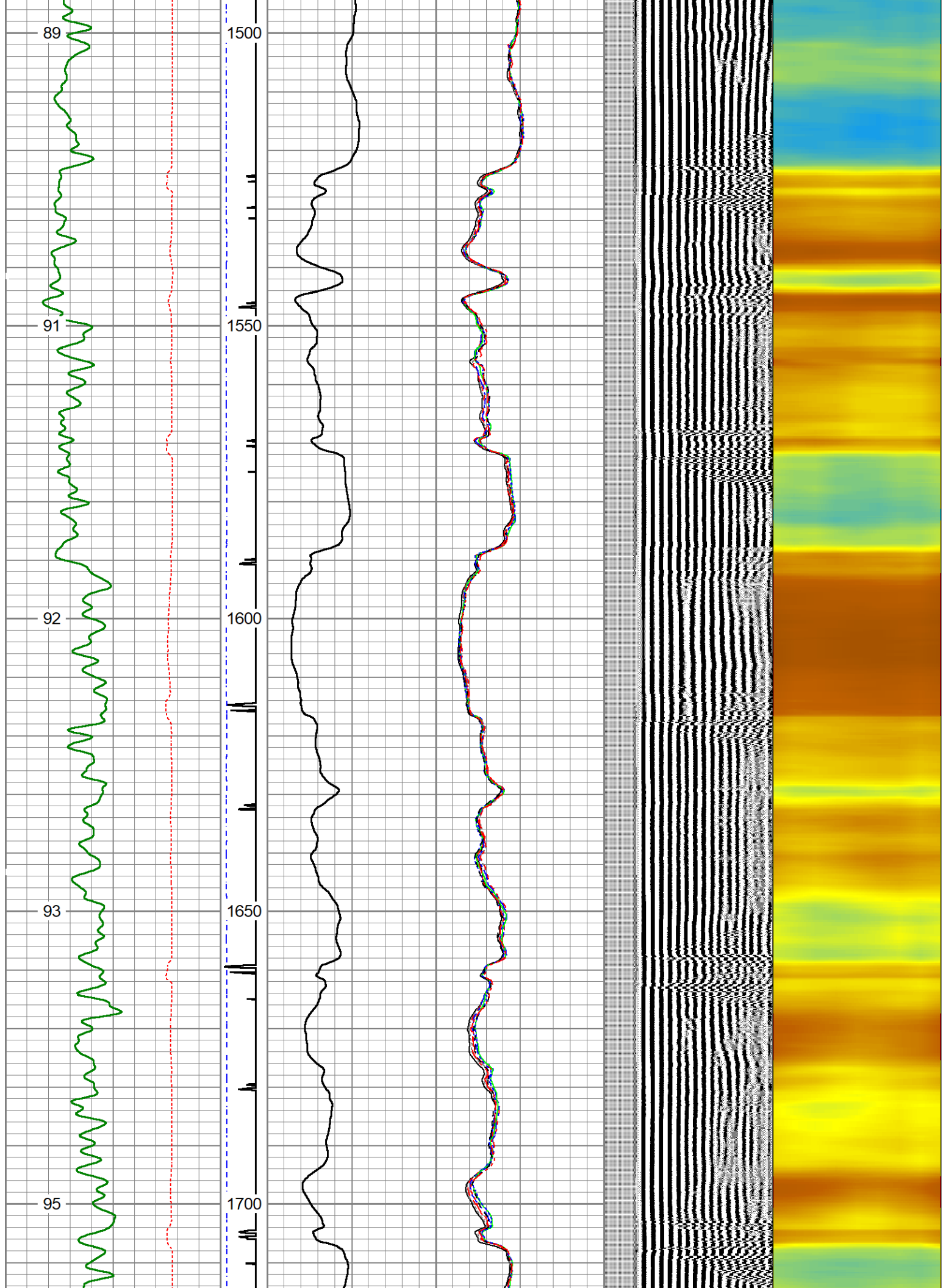


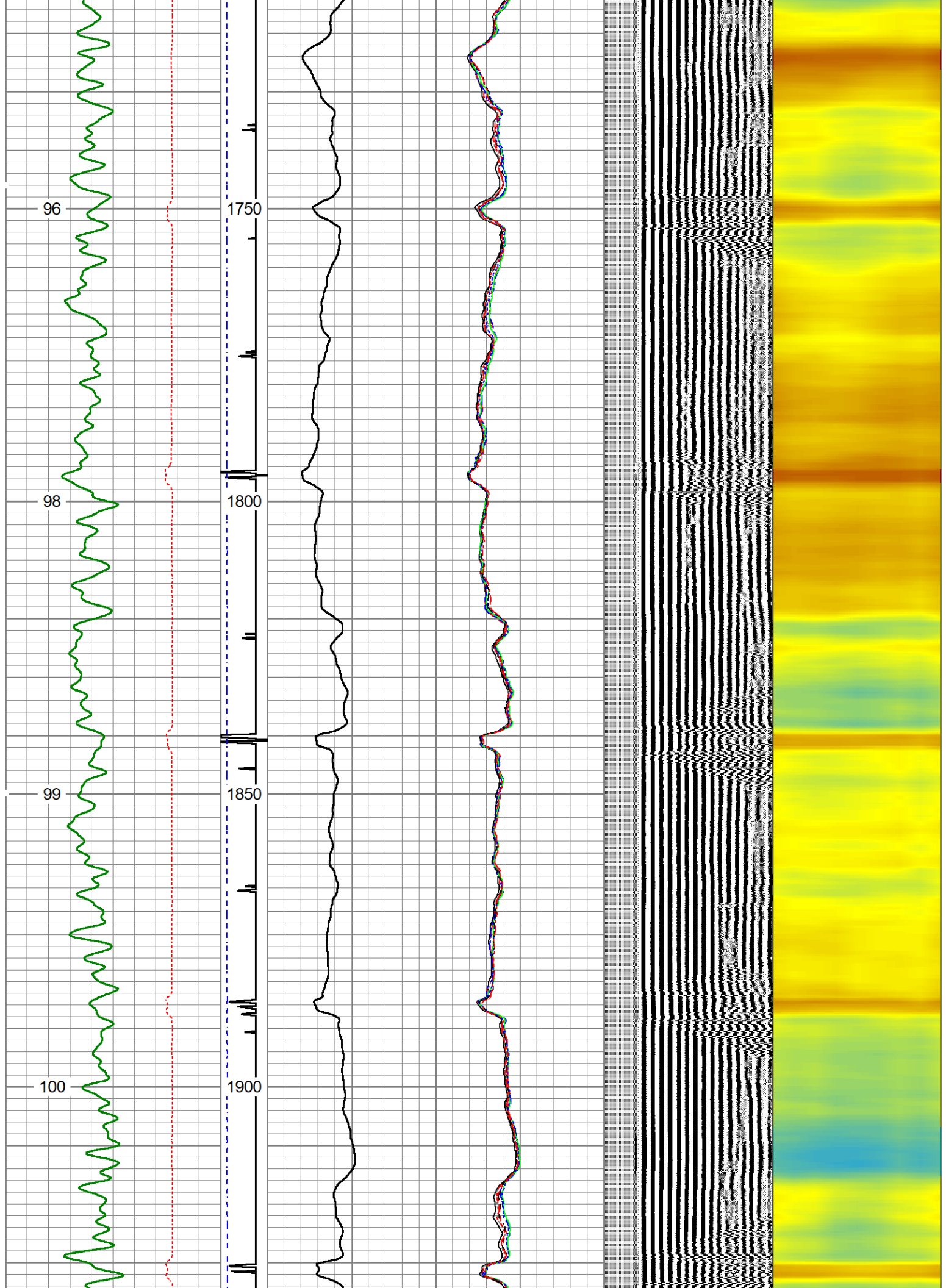


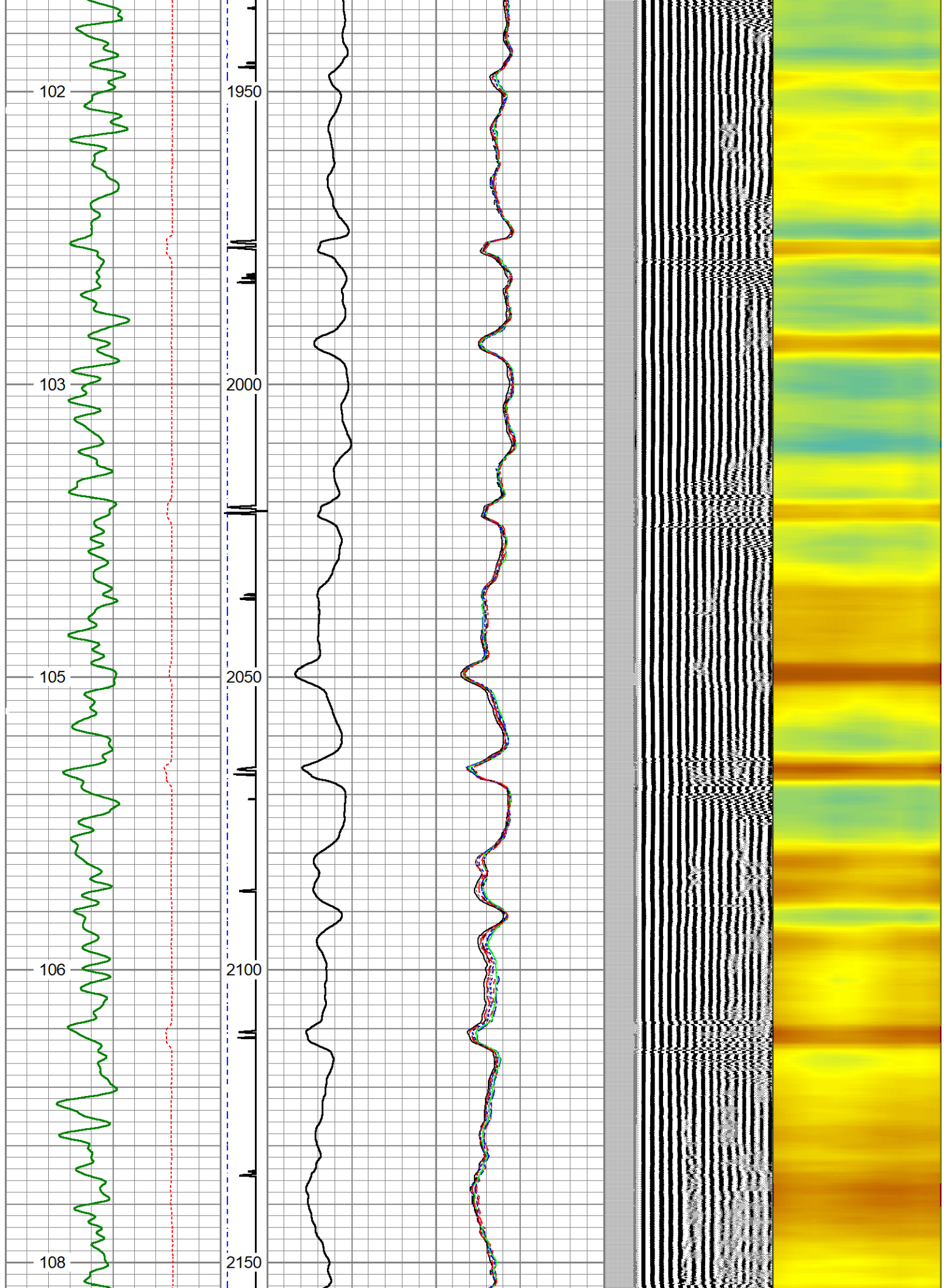


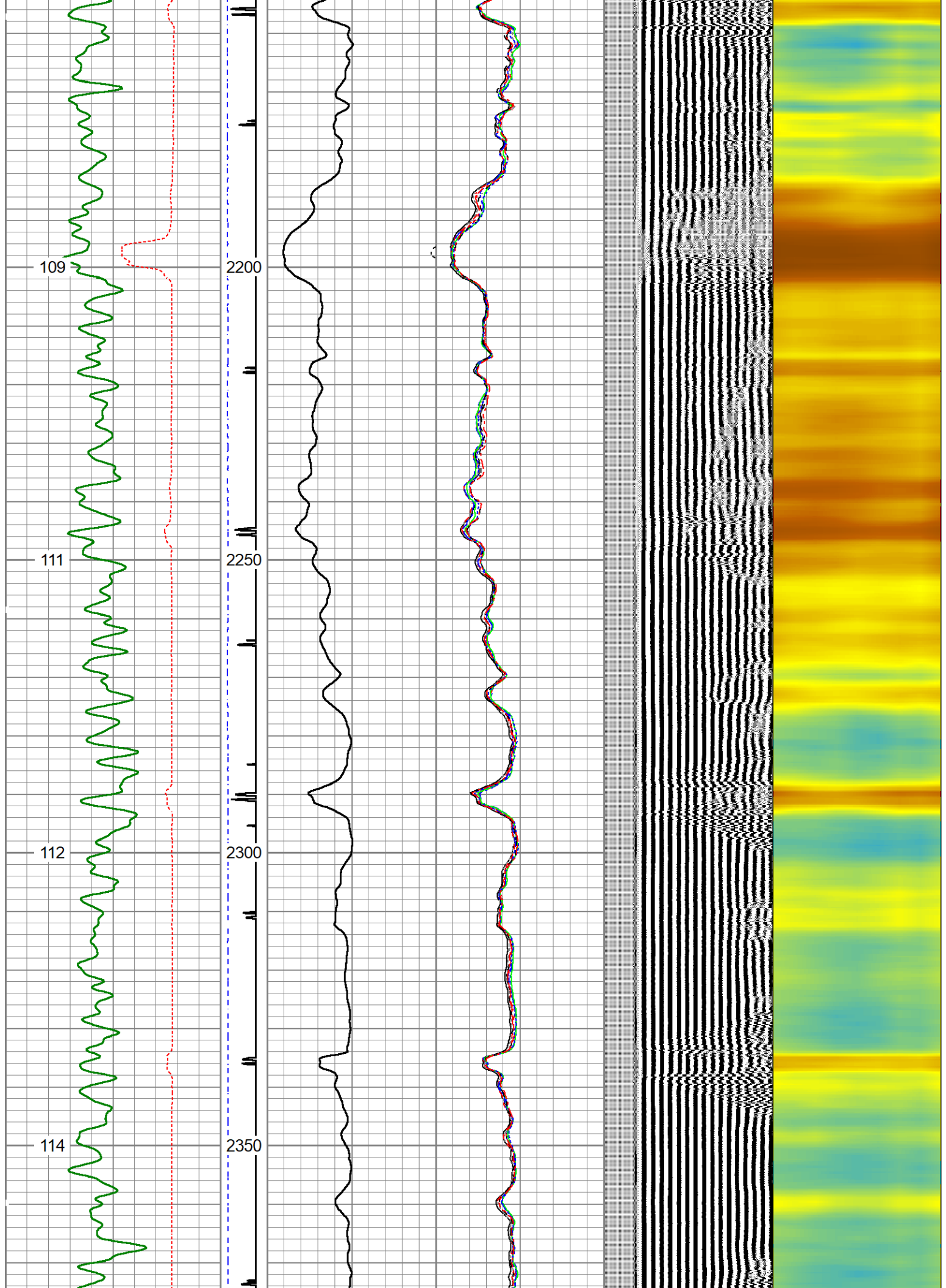


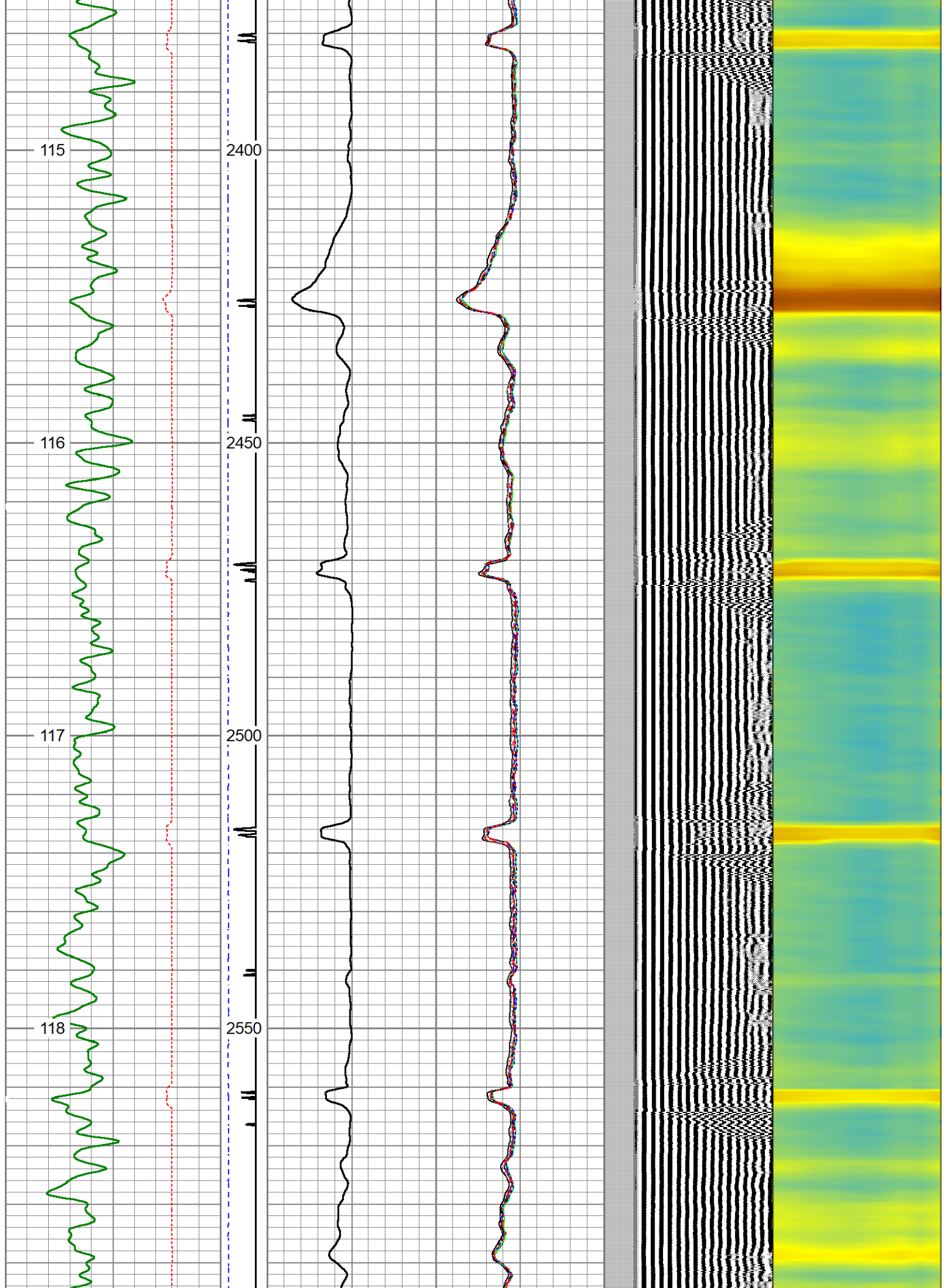


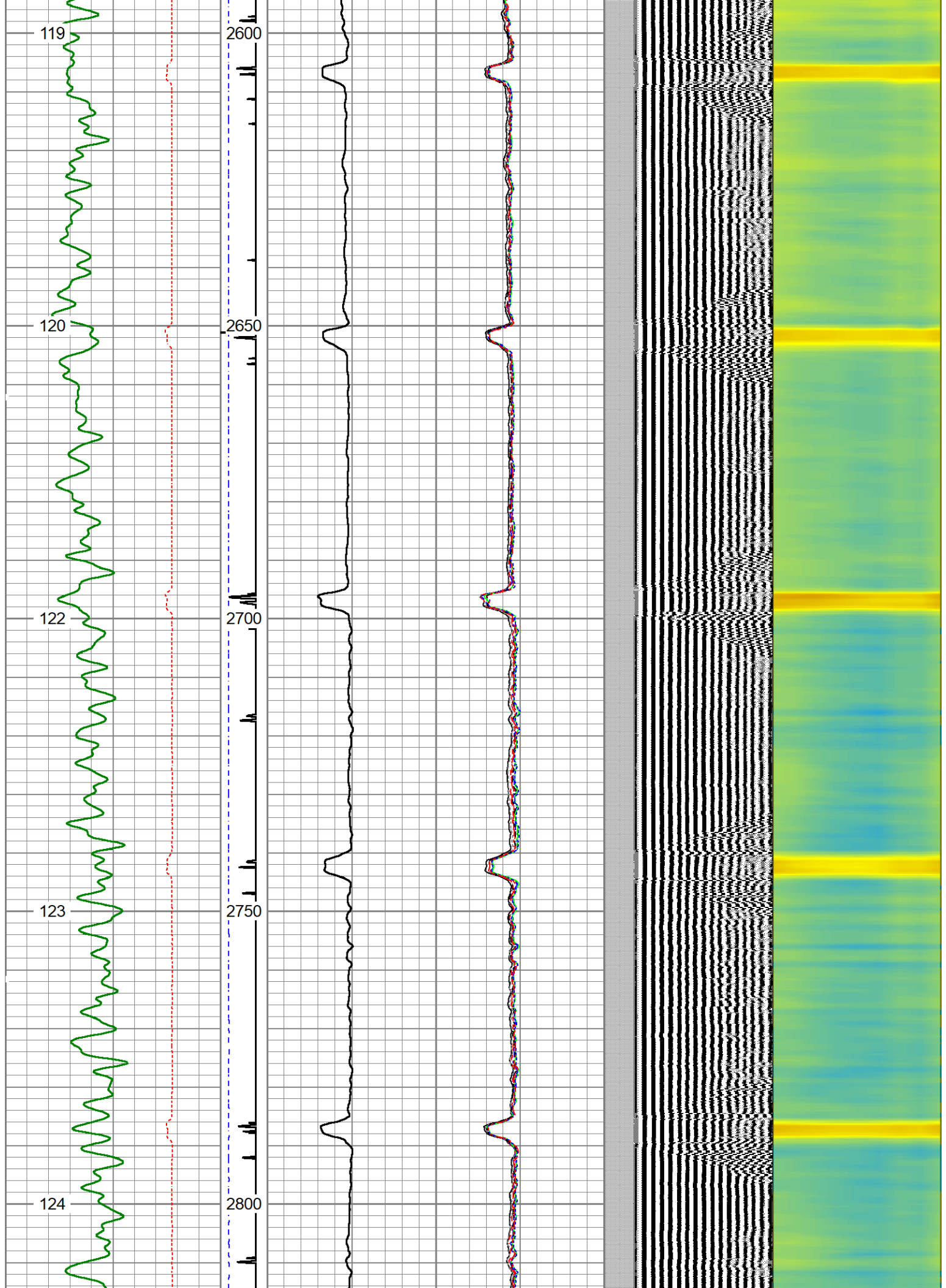


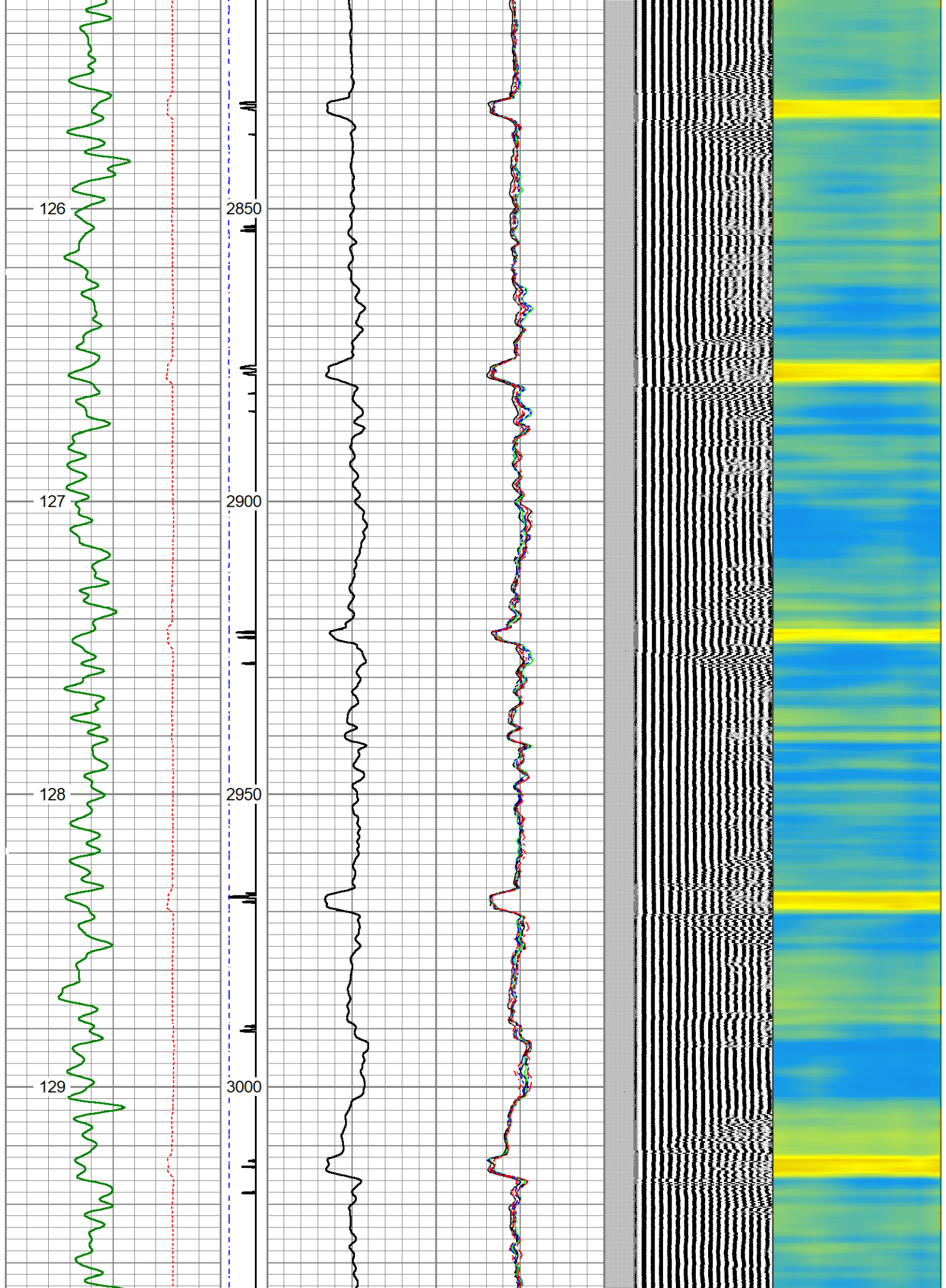


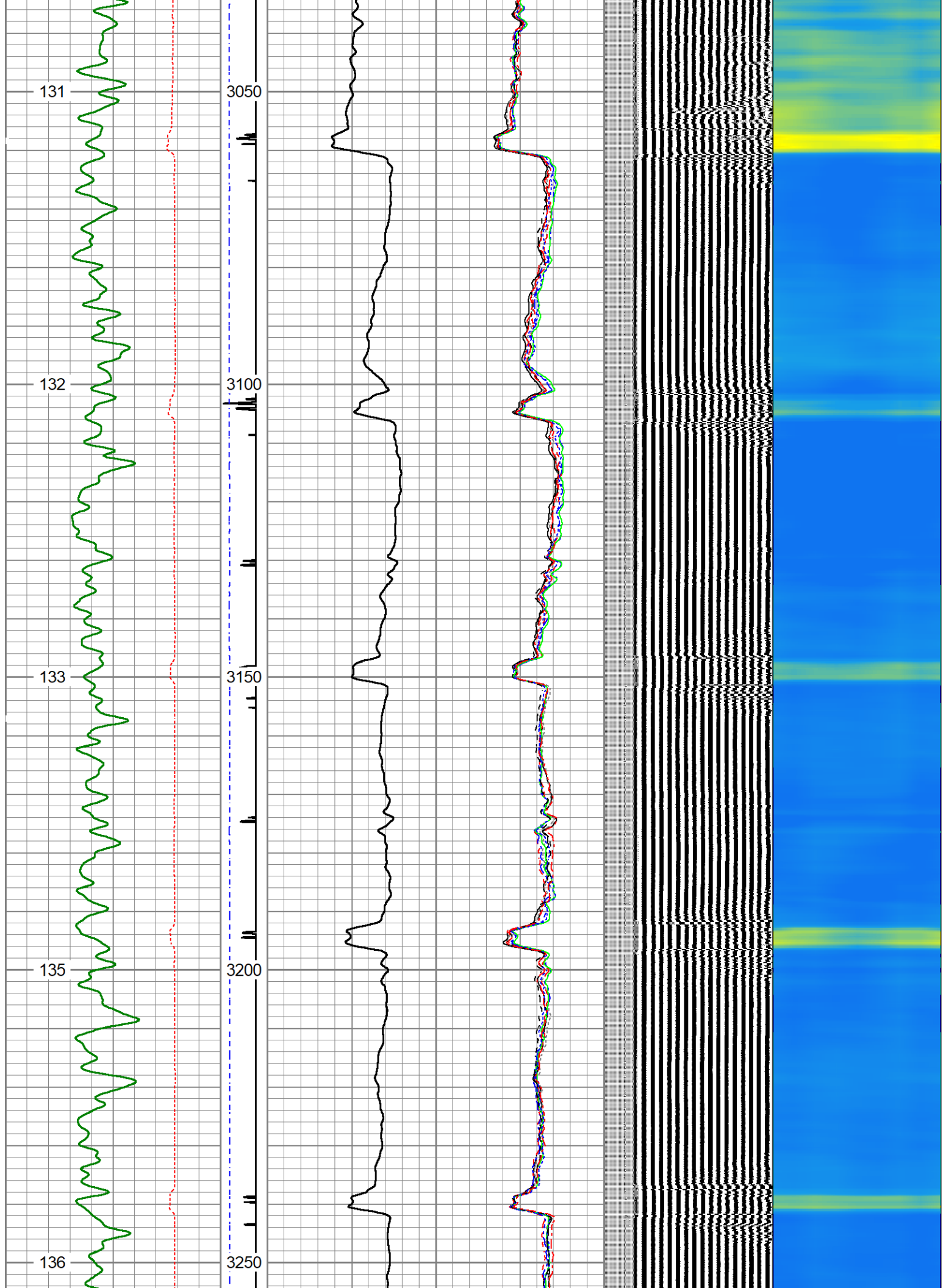


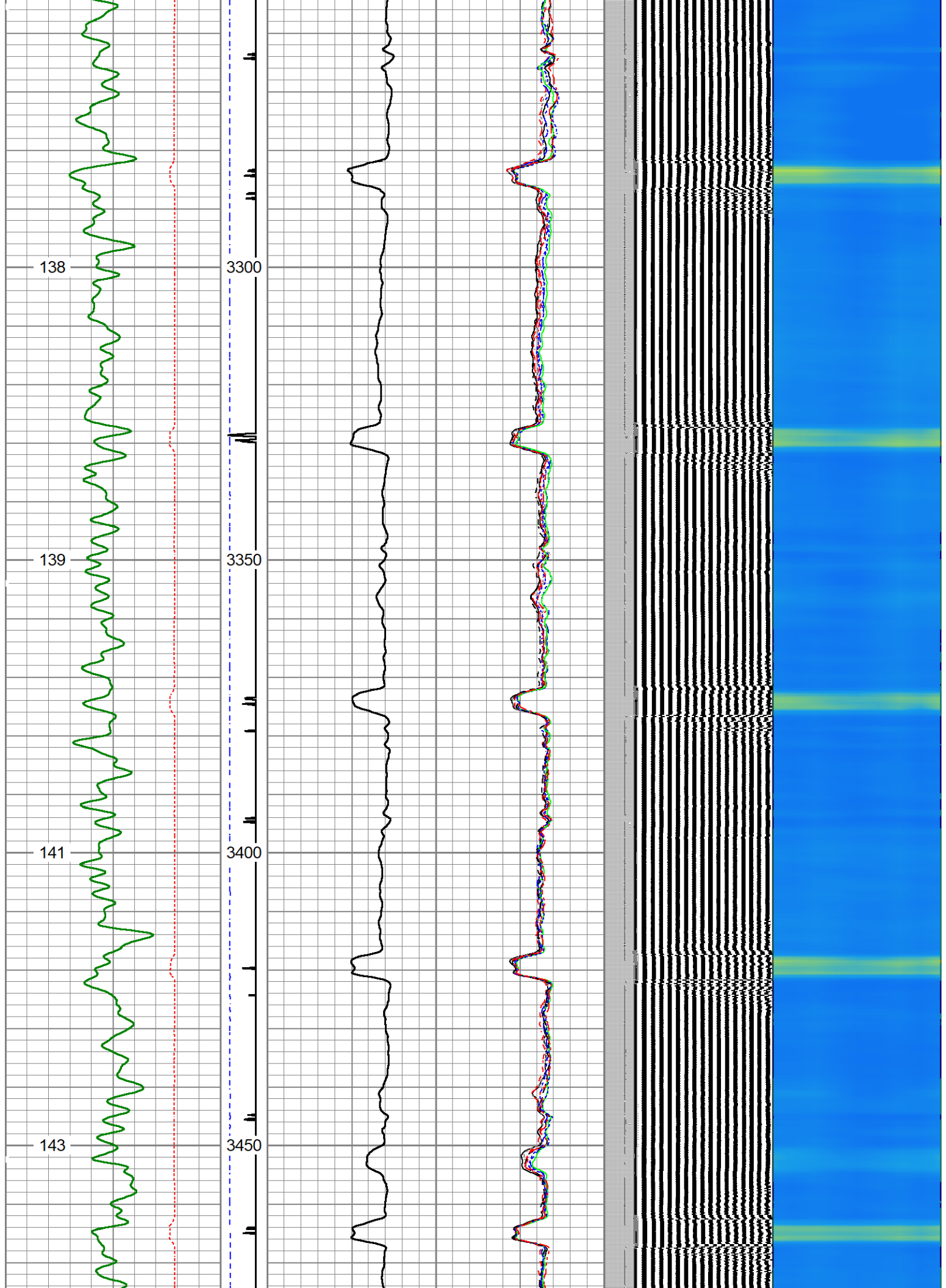


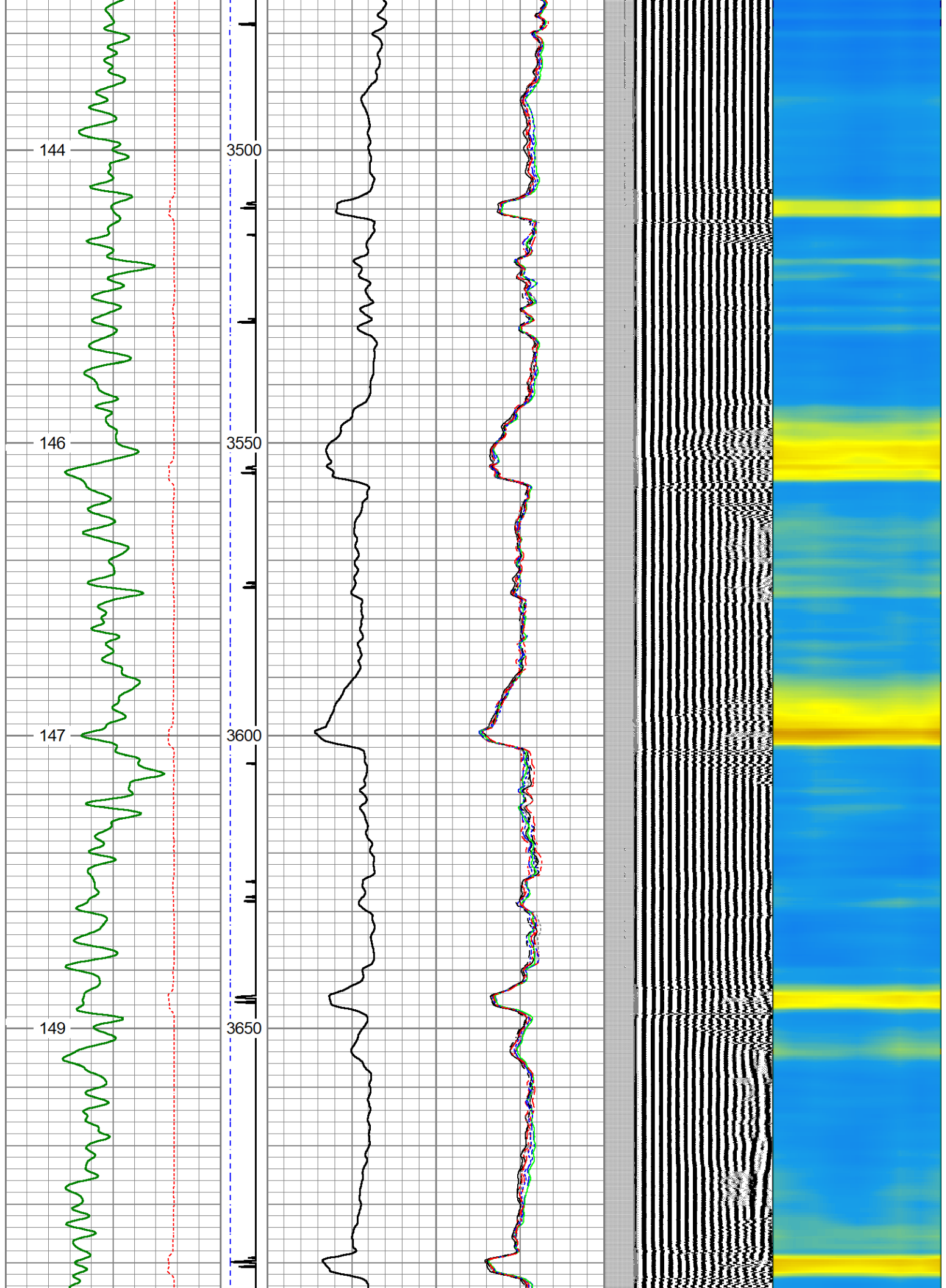


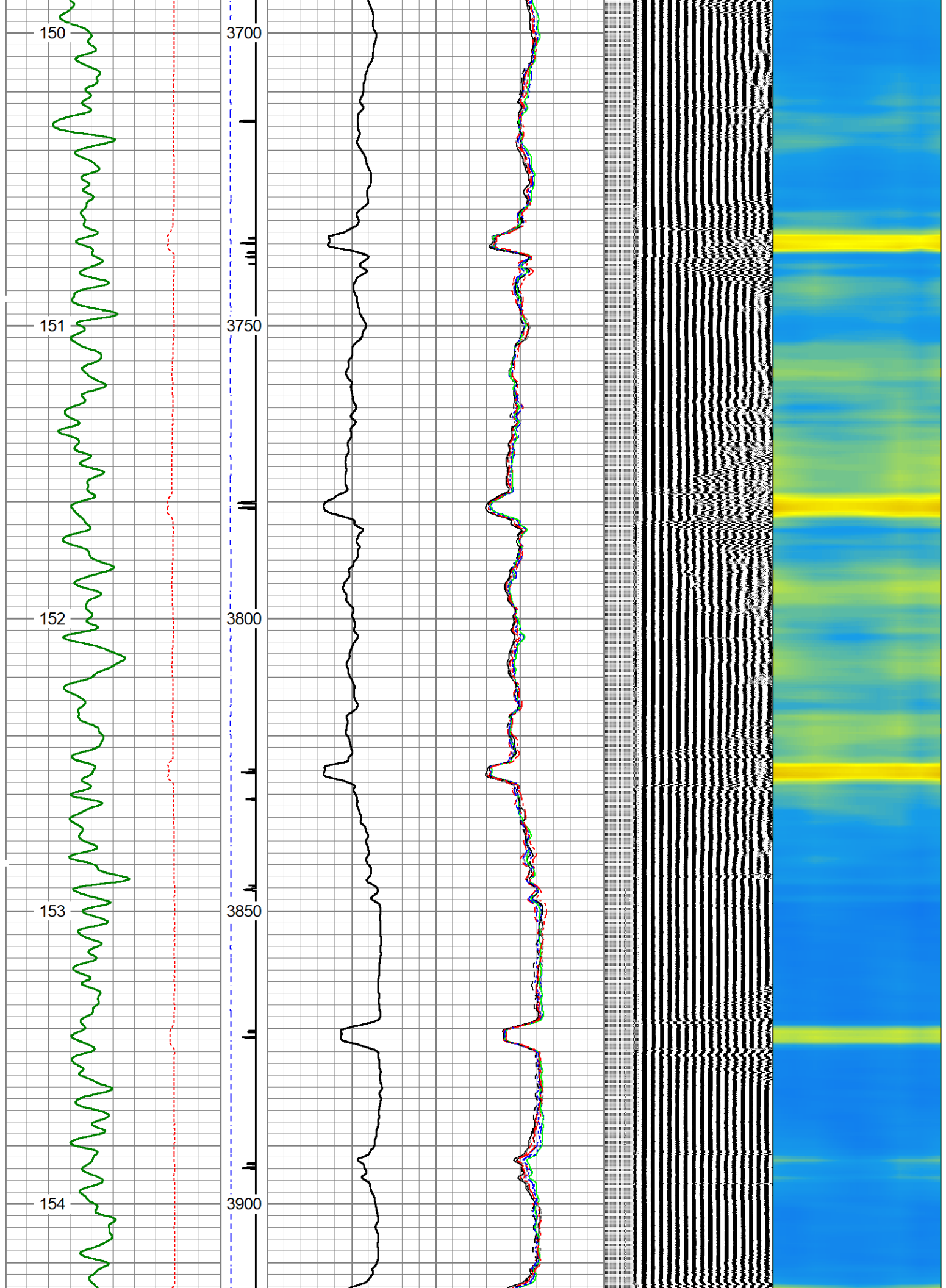


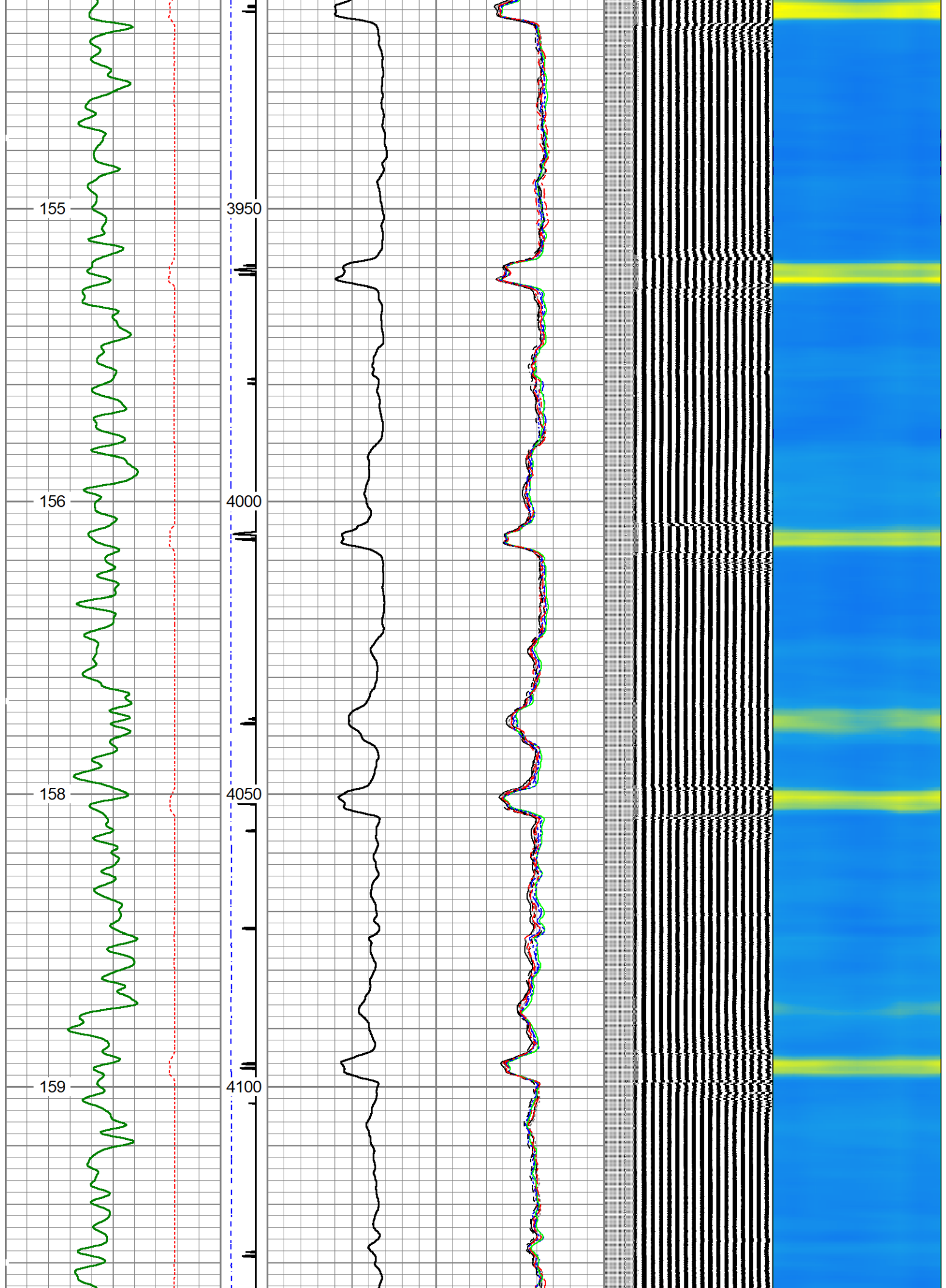


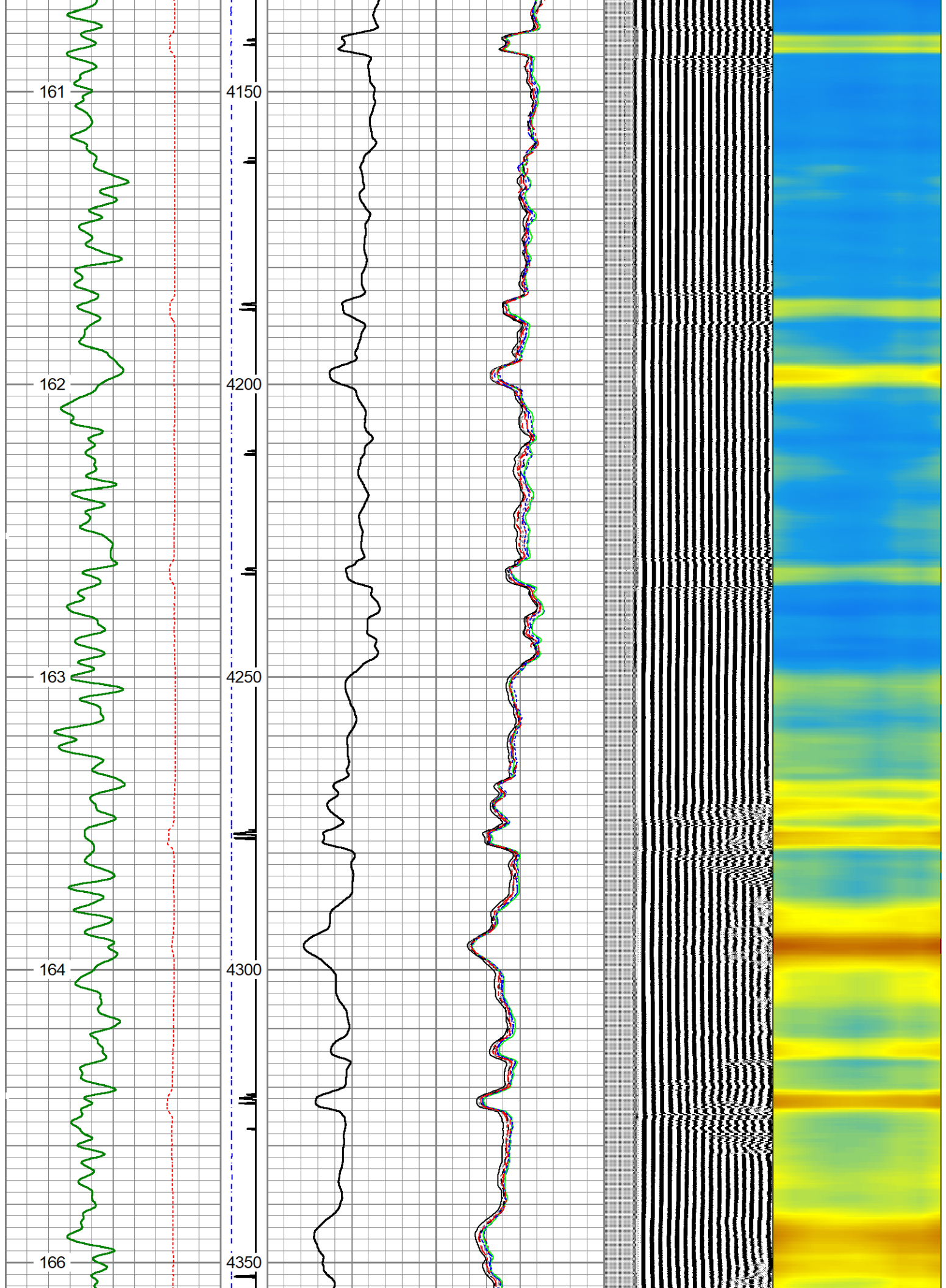


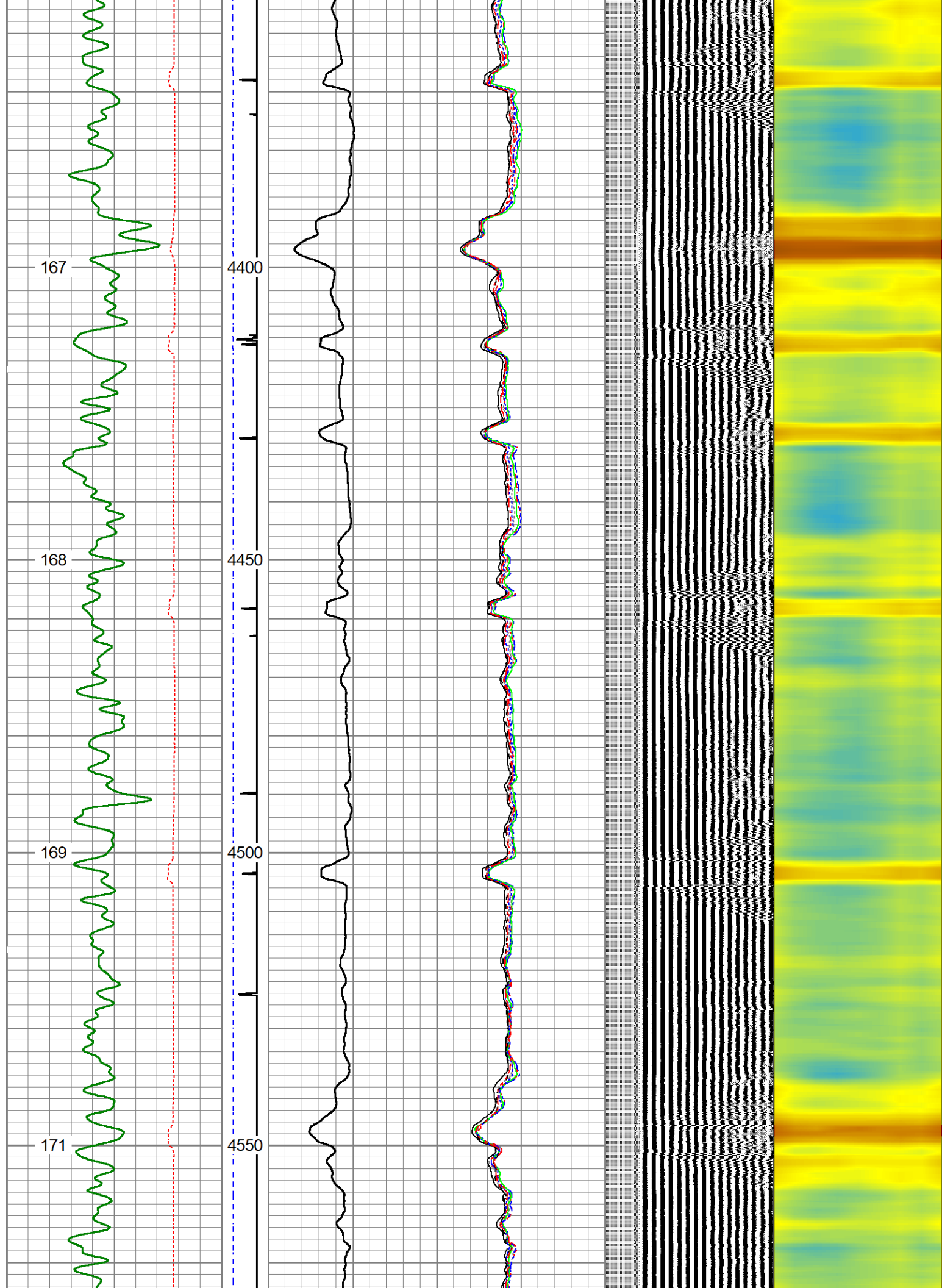


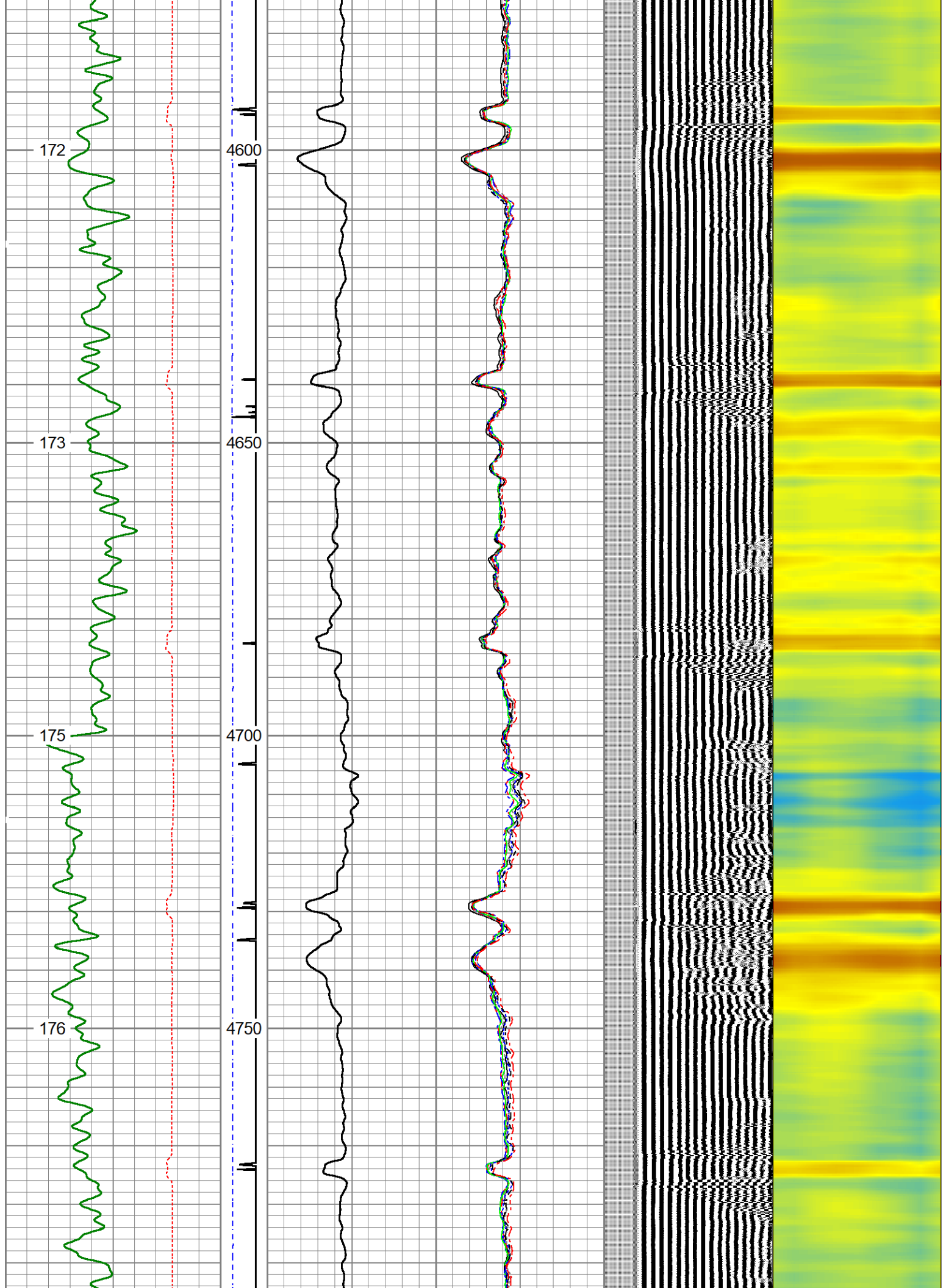




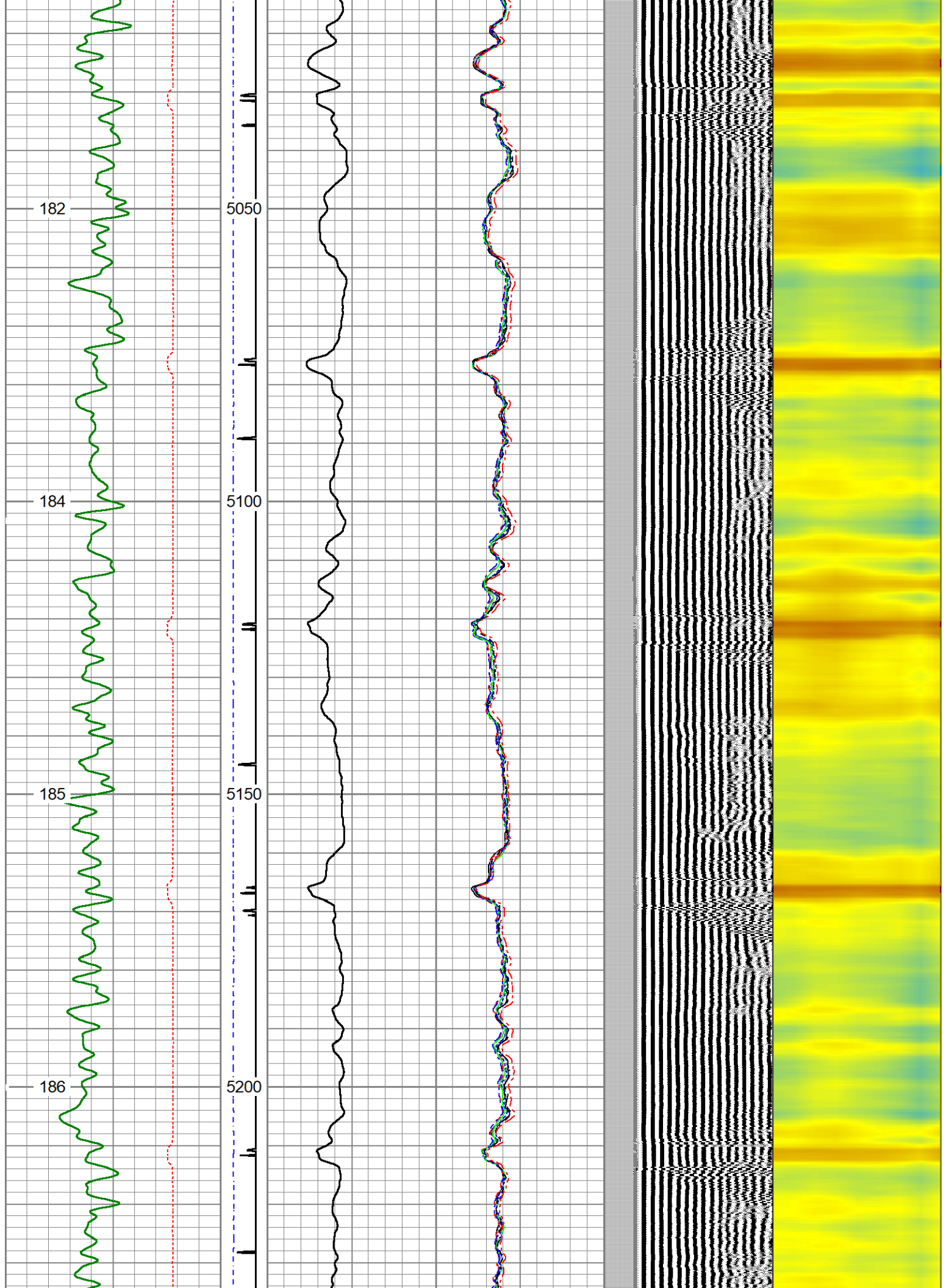


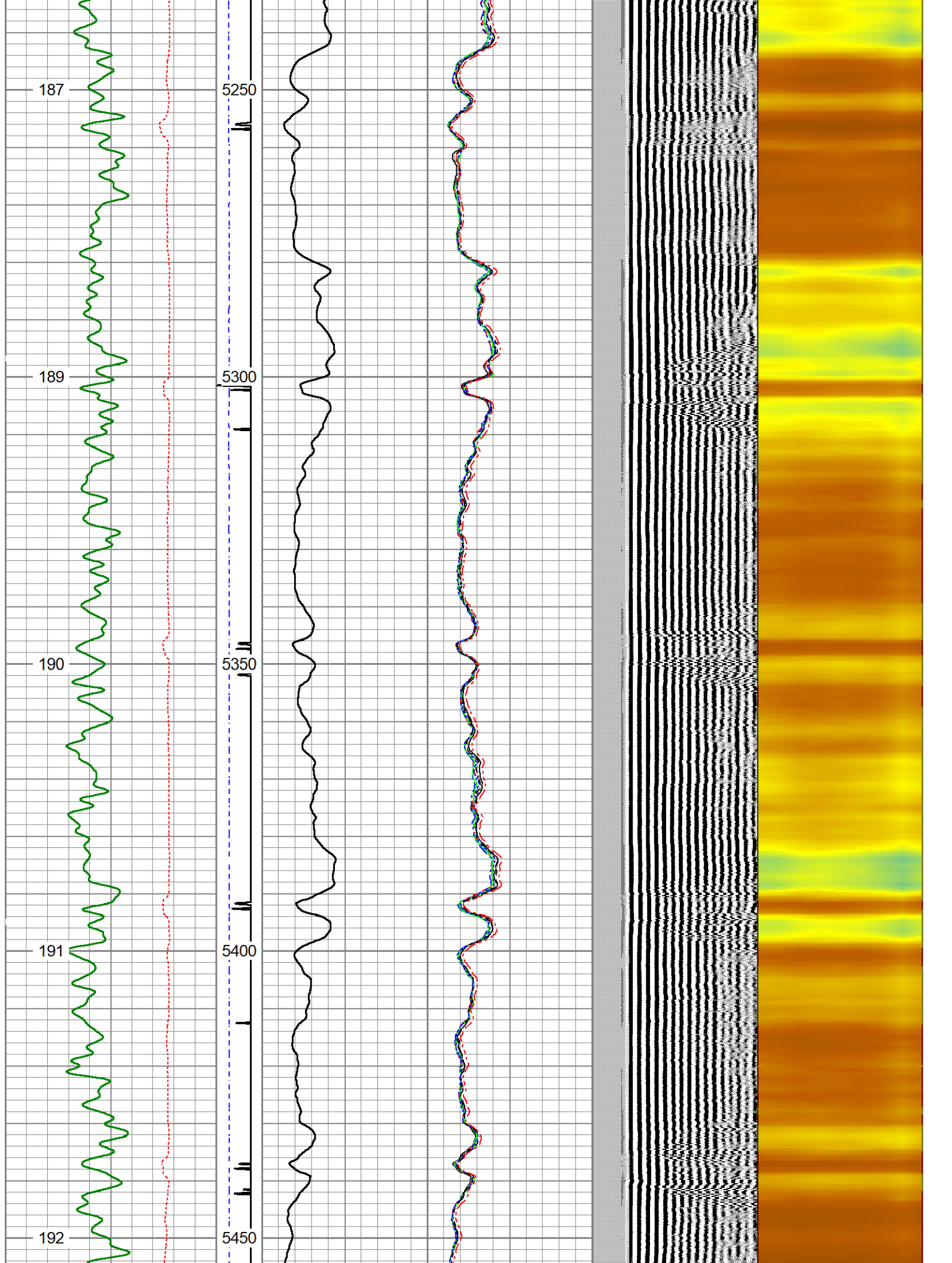


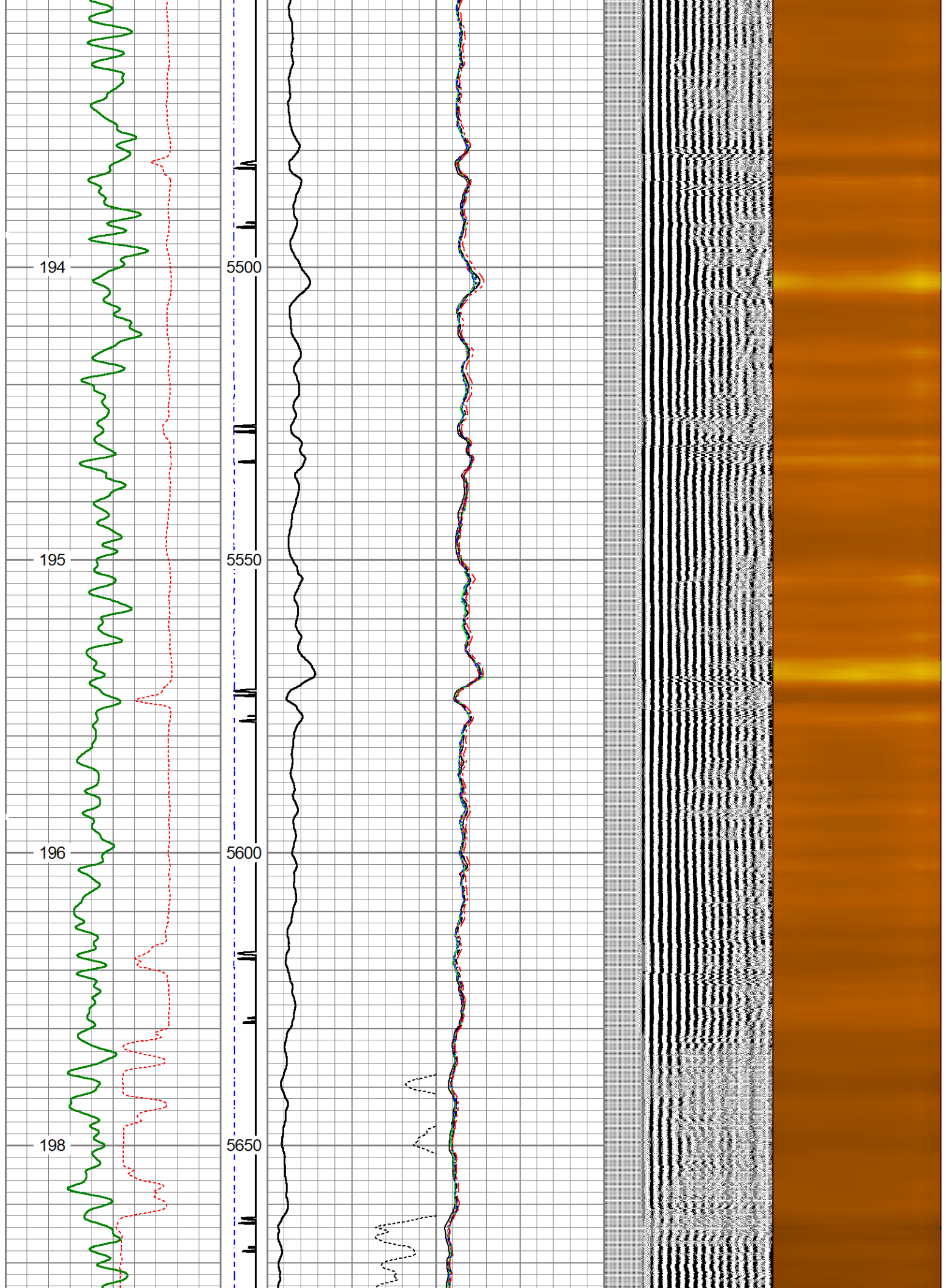


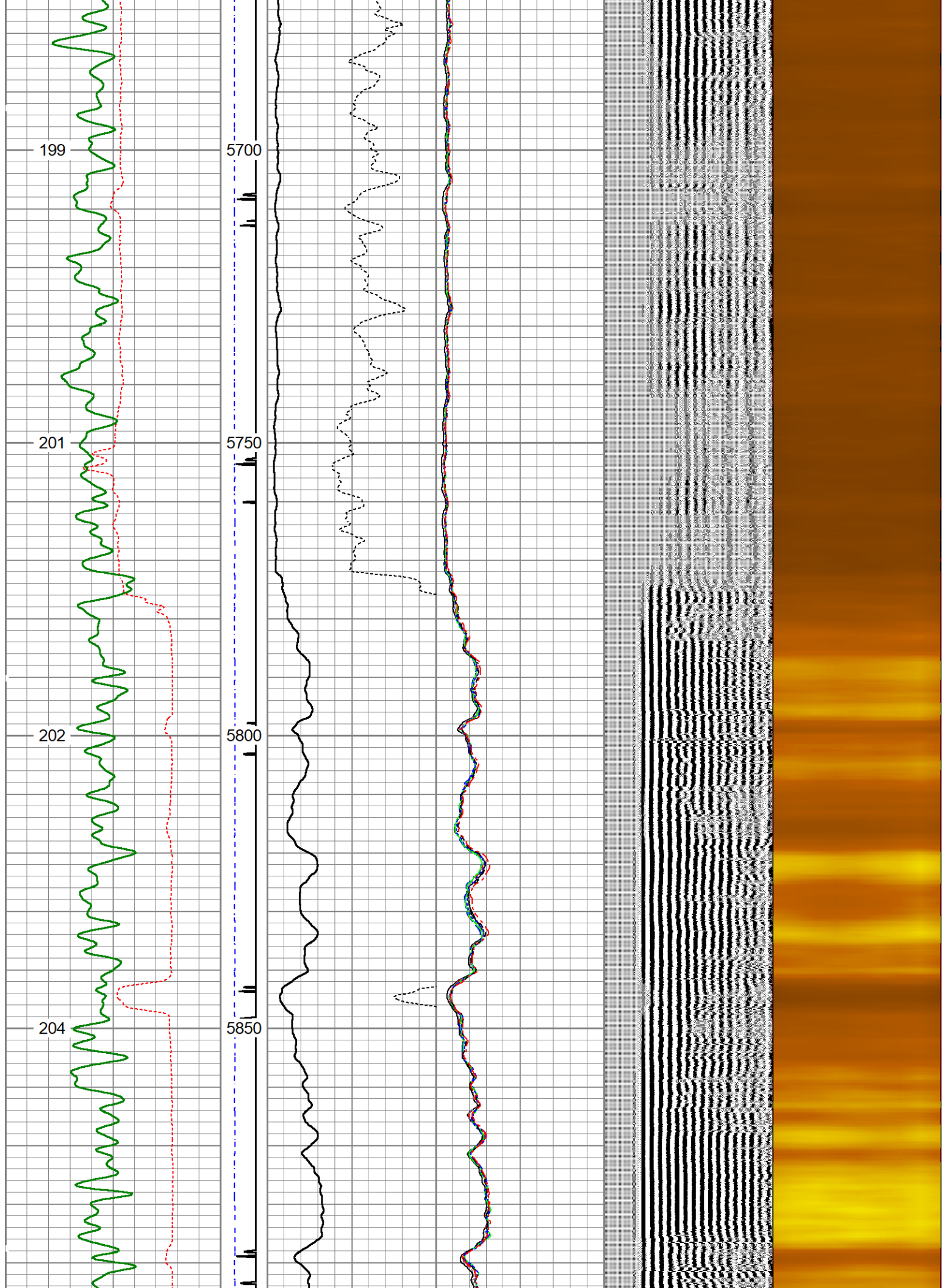


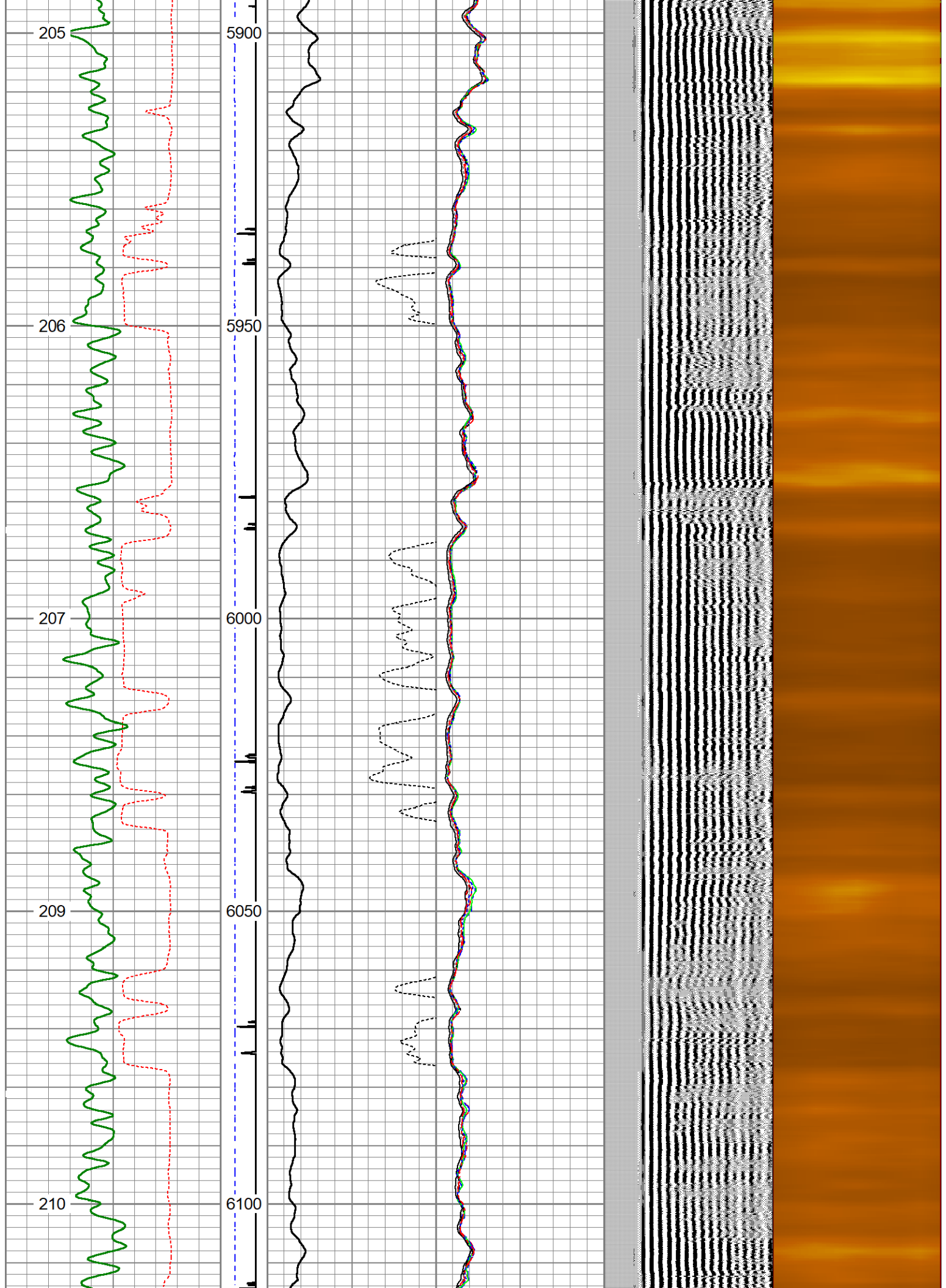


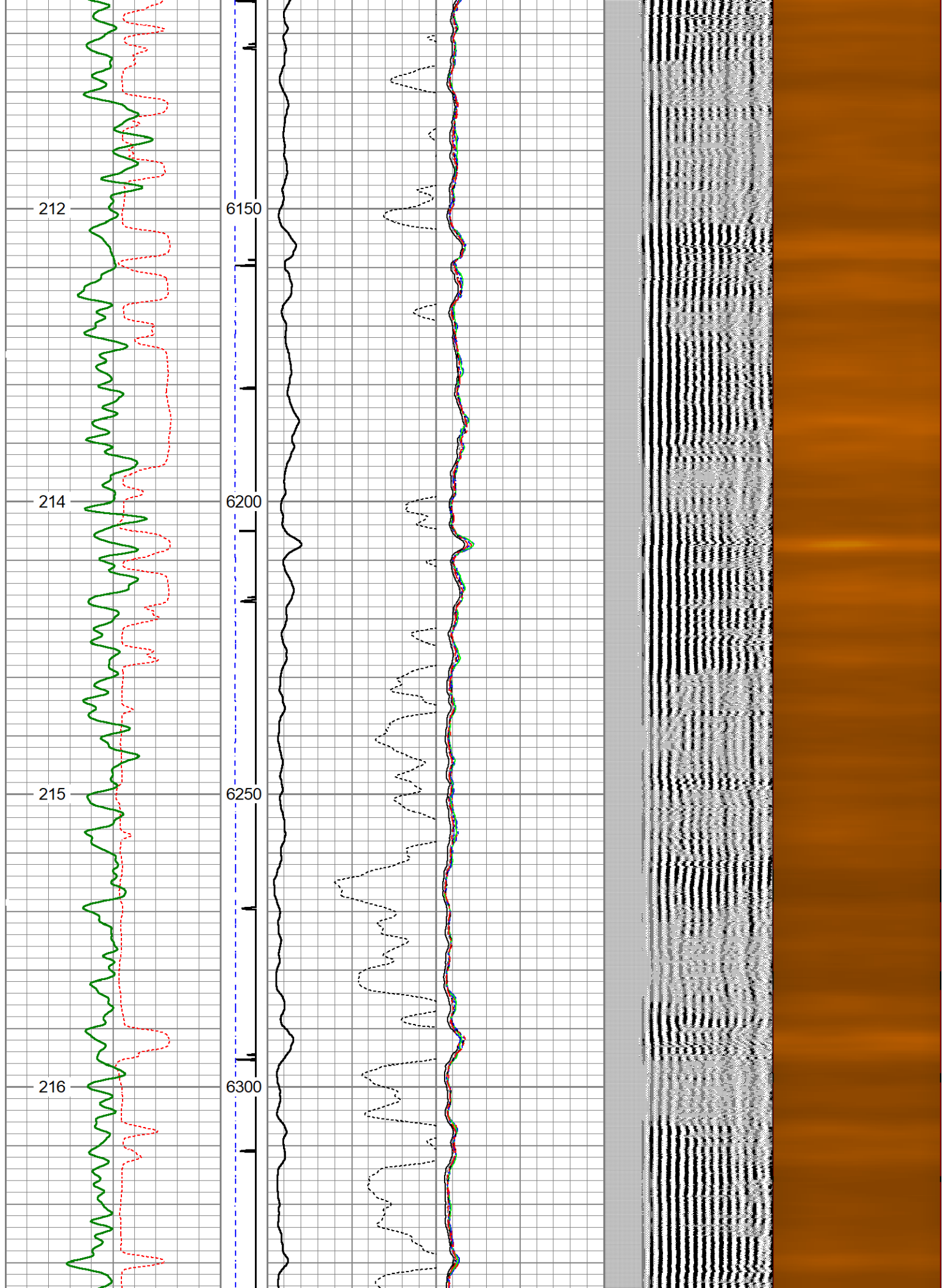




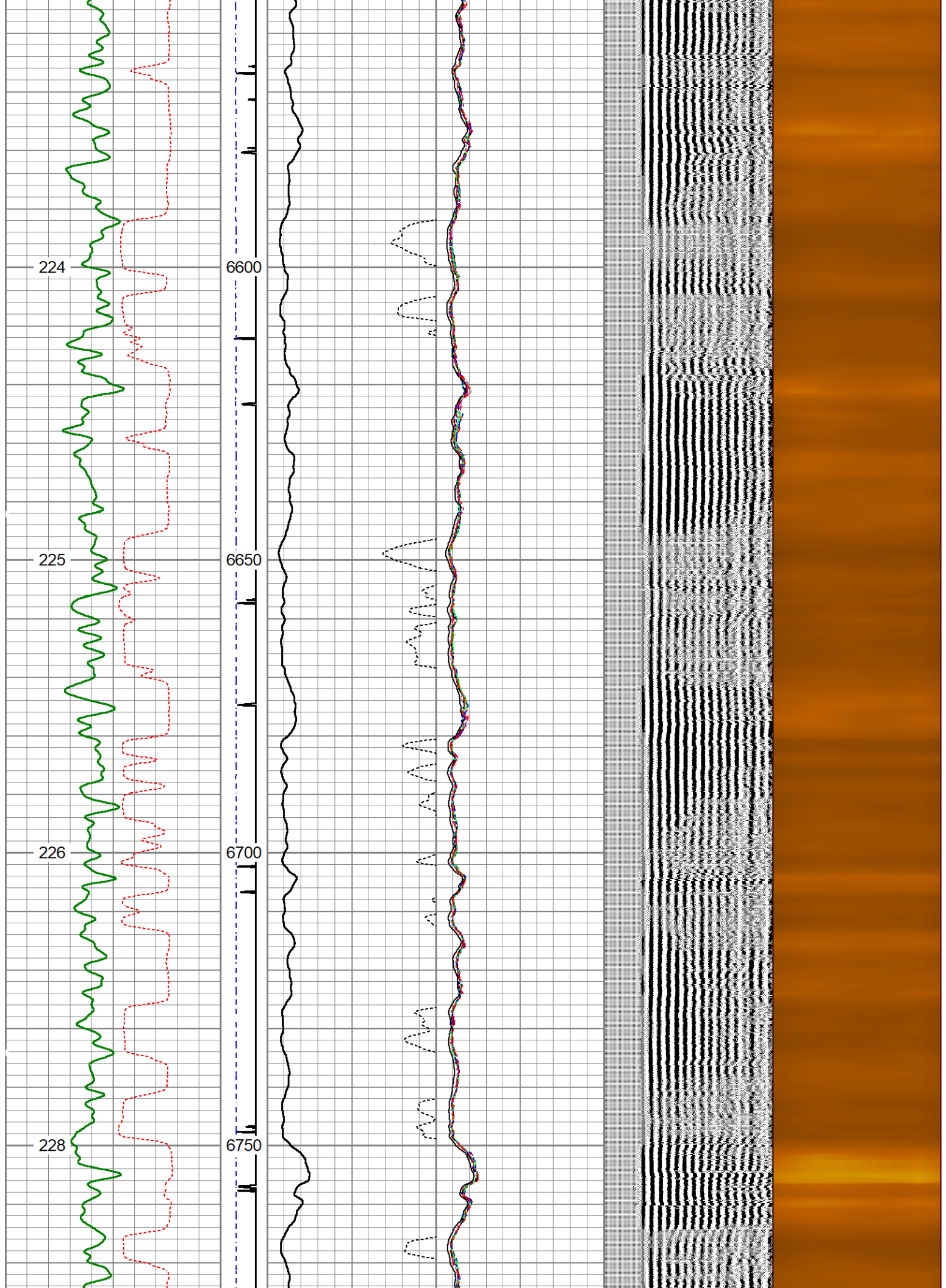


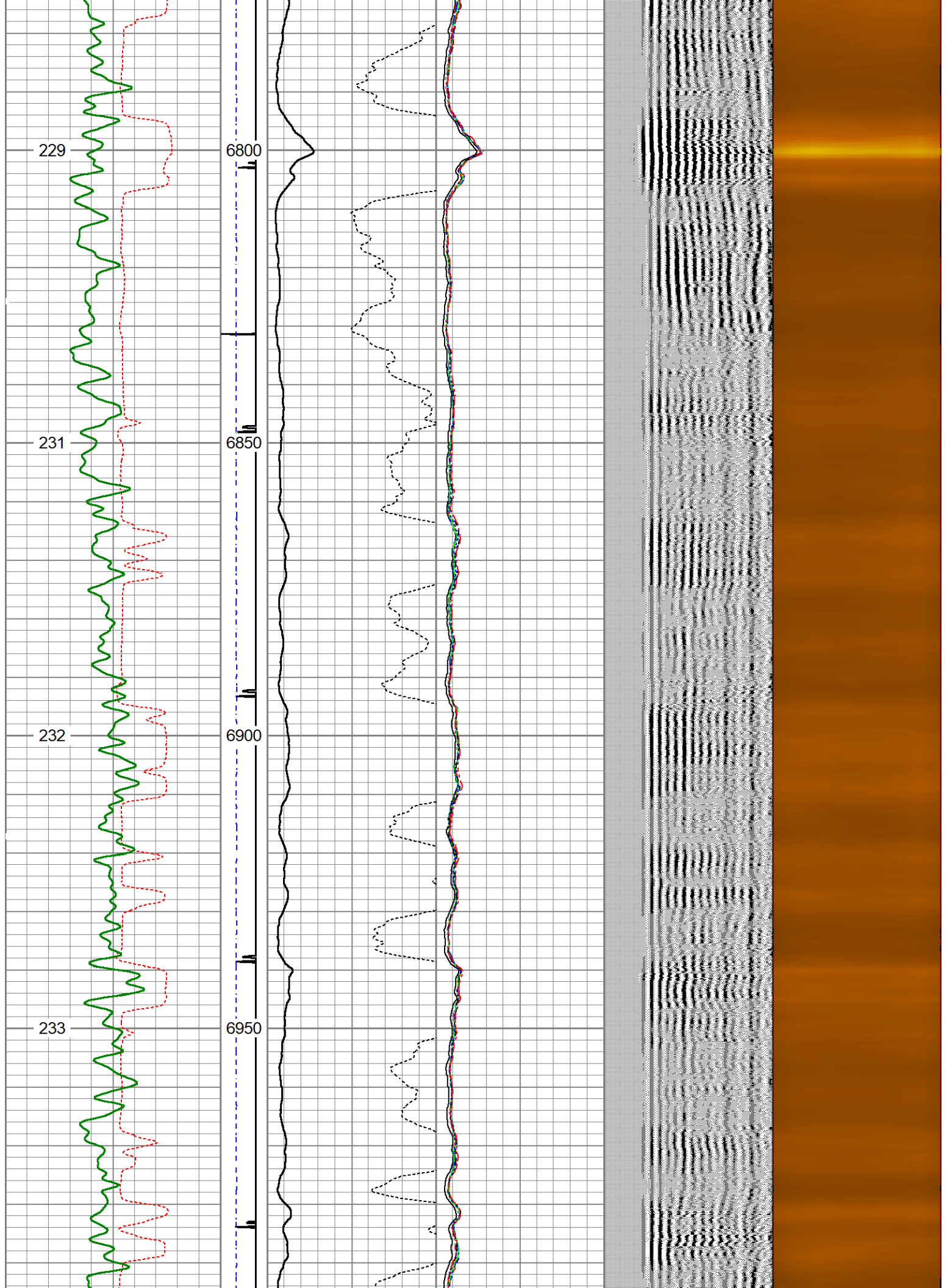


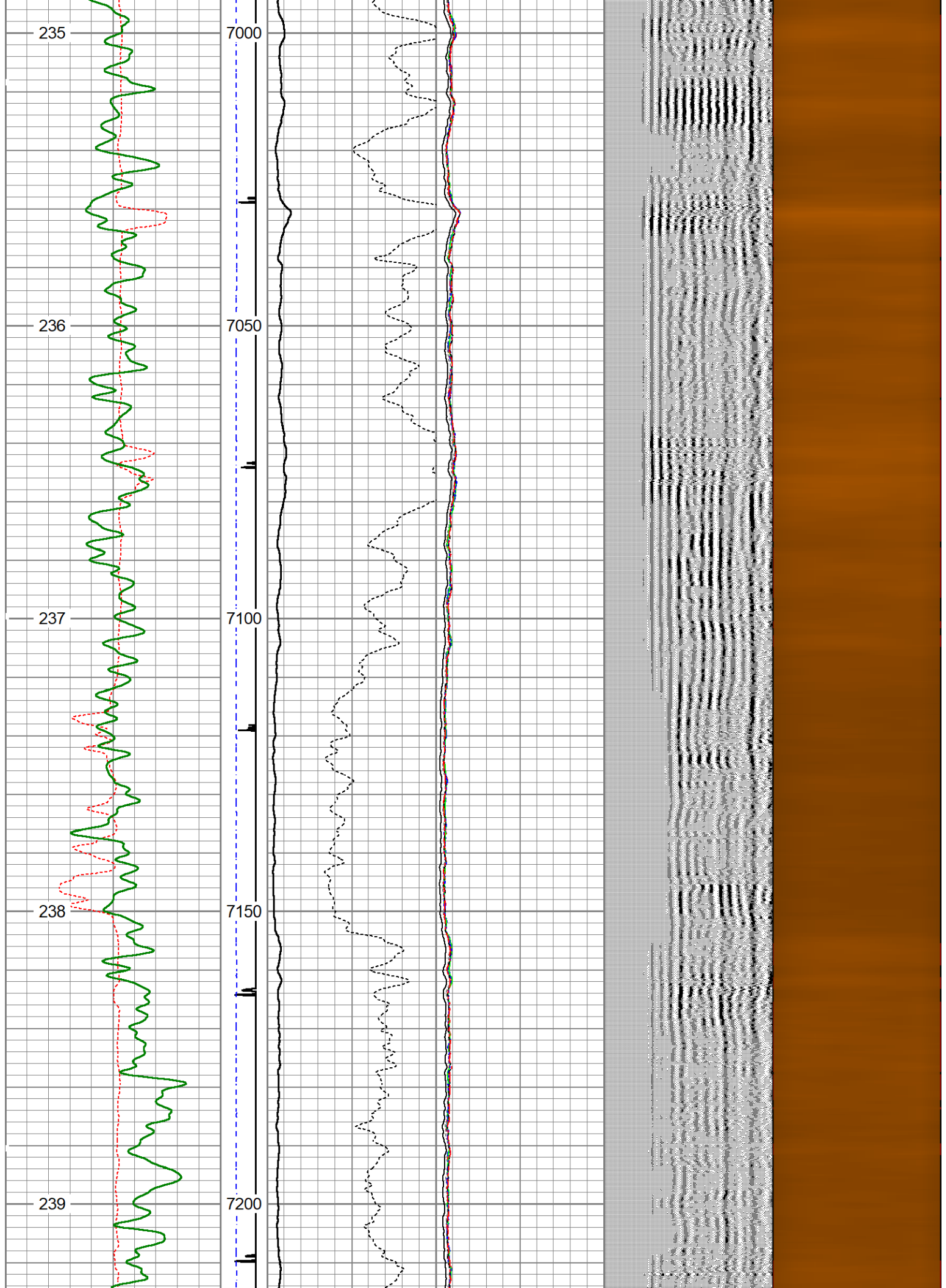


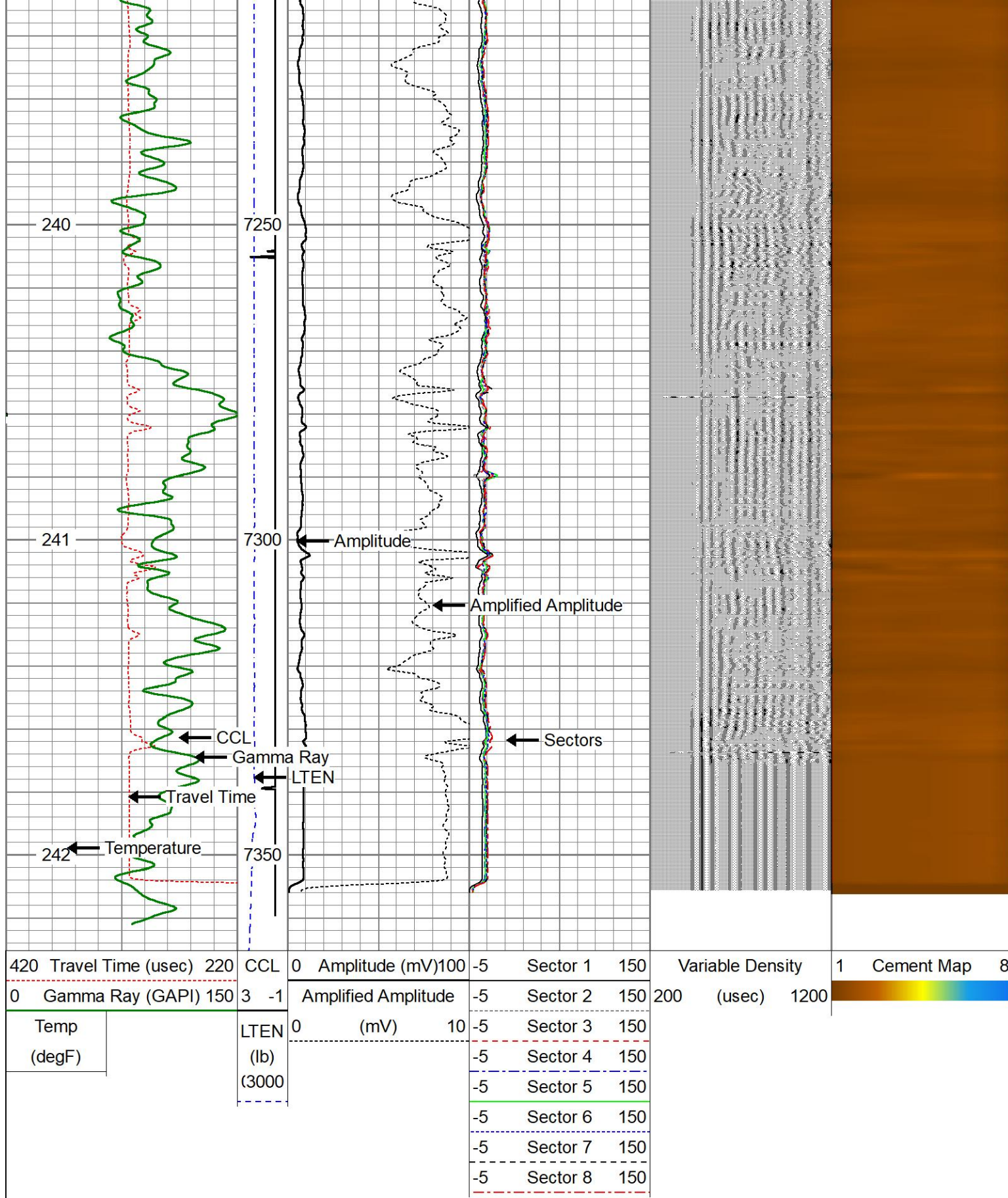





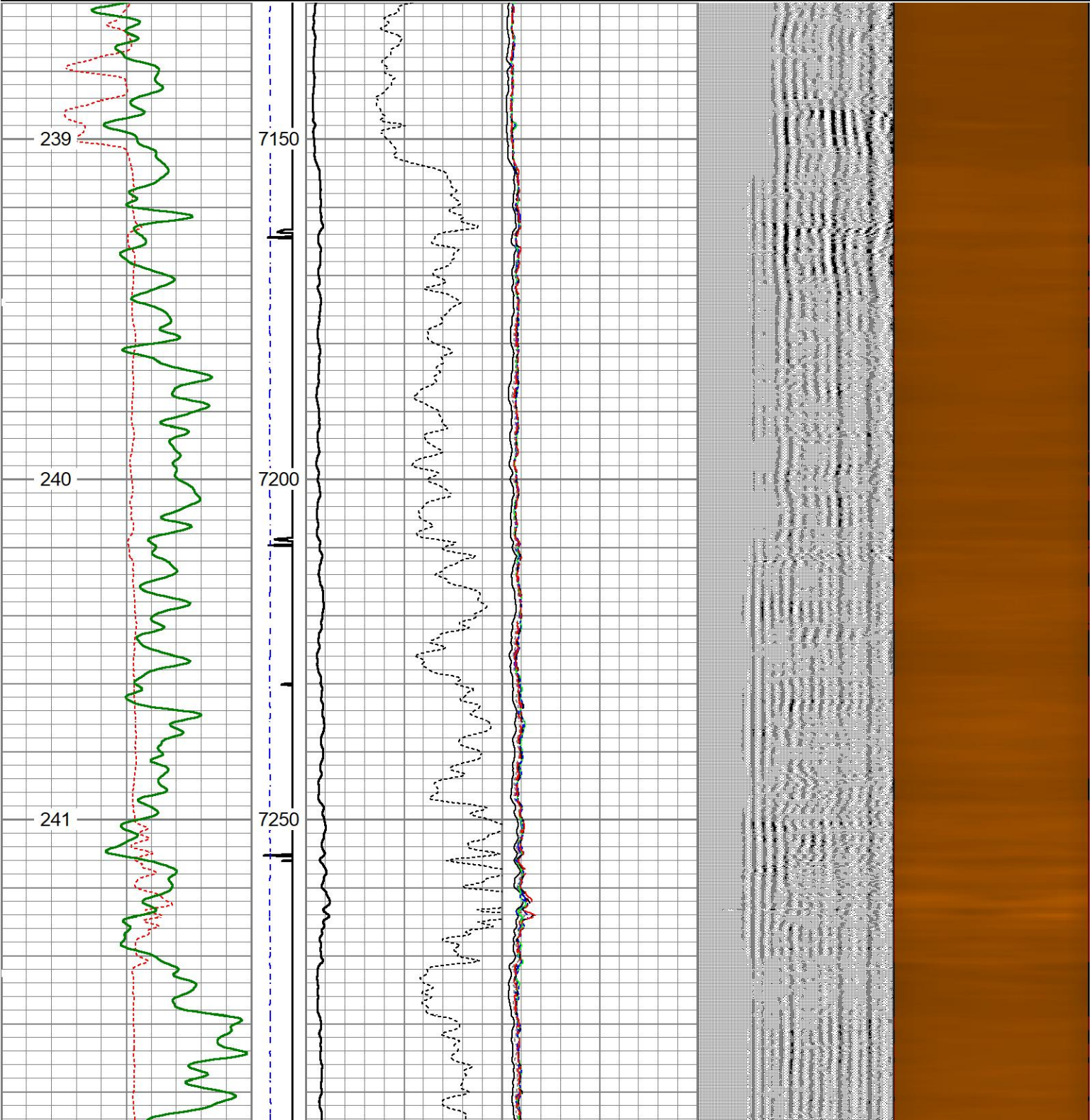


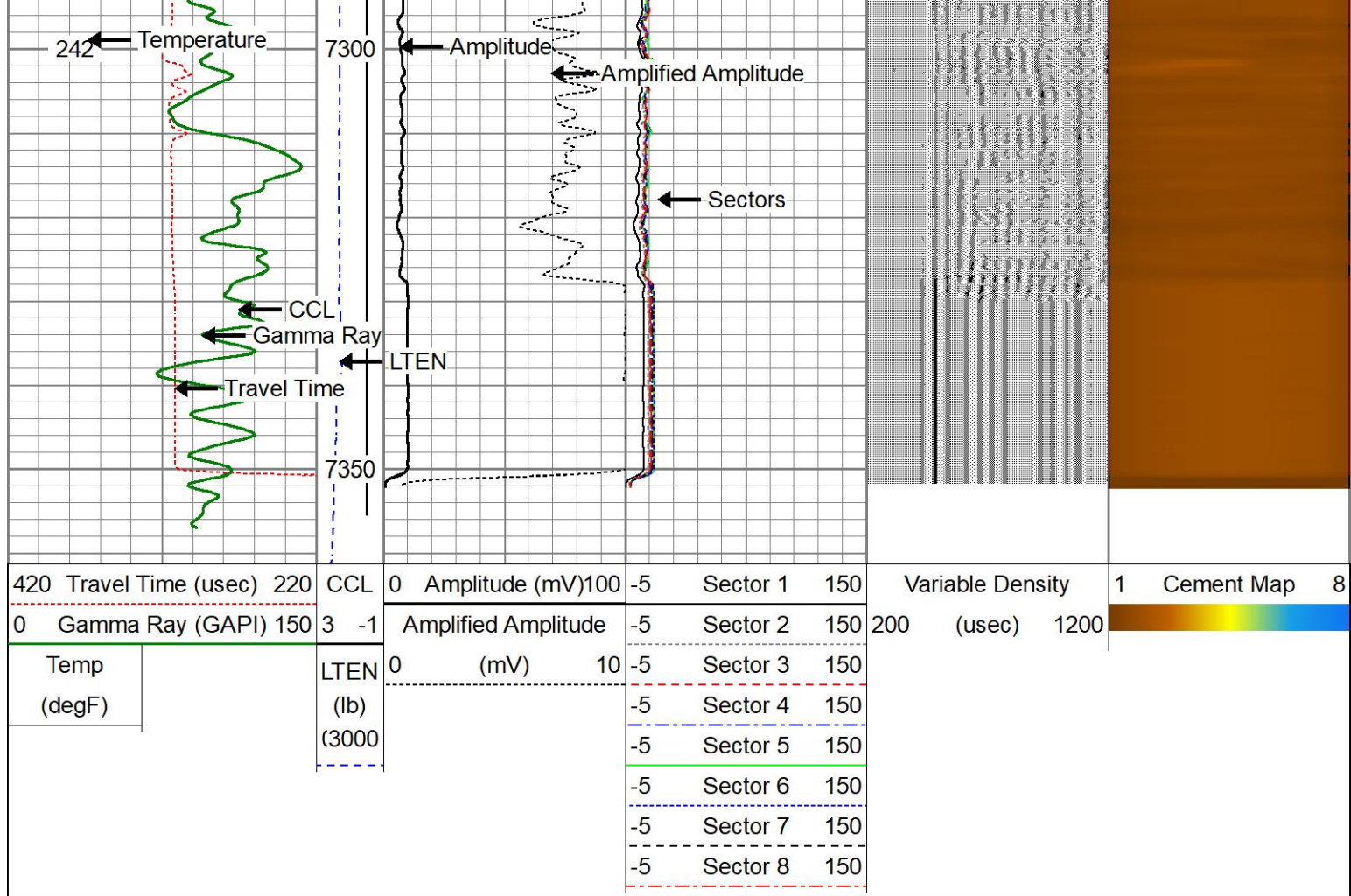






Dataset Pathname		pass6												
Presentation Format		schl03												
Dataset Creation		Thu Nov 07 18:54:21 2019												
Charted by		Depth in Feet scaled 1:240												
420	Travel Time (usec)	220	CCL	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density		1	Cement Map	8
0	Gamma Ray (GAPI)	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\schneider_hd_11_219hnx_rcbl.db
Dataset field/well/run1/pass8/_vars_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in	degF	in	in	lb/ft	mV	mV
	8.5	251	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 schneider_hd_11_219hnx_rcbl.db
Dataset Pathname pass8
Dataset Creation Thu Nov 07 19:06:08 2019

Gamma Ray Calibration Report

Type / Serial:

Probe275dig / 080832

SHOP CALIBRATION

Wed Nov 06 10:11:54 2019

Background	Counts/Sec.	Gain	Offset	Jig	Units
Calibrator	78.2				cps
	1609.5				cps
		0.6766			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 121043
Tool Model: Probe 2.75 Radii W/Temp

Calibration Casing Diameter: 5.500 in
Calibration Depth: 563.958 ft

Master Calibration, performed Thu Nov 07 18:20:40 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.454	2.000	71.921	156.899	0.728
CAL	0.008	0.645				
5'	0.008	0.422	2.000	71.921	168.811	0.671
SUM						
S1	0.020	0.442	0.000	100.000	236.982	-4.637
S2	0.012	0.455	0.000	100.000	225.756	-2.789
S3	0.009	0.476	0.000	100.000	213.712	-1.831
S4	0.008	0.476	0.000	100.000	213.879	-1.760
S5	0.008	0.459	0.000	100.000	221.795	-1.754
S6	0.008	0.451	0.000	100.000	225.718	-1.780
S7	0.008	0.443	0.000	100.000	229.861	-1.849
S8	0.008	0.445	0.000	100.000	228.859	-1.875


Internal Reference Calibration, performed (Not Performed):


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.645	1.000	0.000

Air Zero Calibration, performed Thu Nov 07 11:31:21 2019:

	Raw (v)	Calibrated (v)	Results
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	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	15.69		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	12.84					
WVFS8	10.61		RBT-Probe 2.75 Radii W/Temp (121043) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS7	10.61					
WVFS6	10.61					
WVFS5	10.61					
WVFS4	10.61					
WVFS3	10.61					
WVFS2	10.61					
WVFS1	10.61					
WVFCAL	10.61					
WVF3FT	10.61					
WVF5FT	9.61					
HEADVOLT	6.36					
CCL	5.44					
			GR-Probe275dig (080832) HT Probe 2 3/4" Gamma CCL	6.36	2.75	57.00

GR	1.42				
Dataset: schneider_hd_11_219hnx_rcbl.db: field/well/run1/pass8 Total length: 16.75 ft Total weight: 152.00 lb O.D.: 2.75 in					

		Company	Great Western Oil & Gas Company		
		Well	Schneider HD 11-219HNX		
		Field	Wattenberg		
		County	Weld		
		State	Colorado		Country USA