



**RADIAL CEMENT BOND W/  
VARIABLE DENSITY,  
GAMMA RAY, CCL, TEMP LOG**

Company	GREAT WESTERN OIL & GAS		
Well	RAINDANCE FC 23-272HC		
Field	WATTENBERG		
County	WELD	State	COLORADO
Location:	API # : 05-123-51583		Other Services
	40.463033 / -104.927286		N/A
Permanent Datum	GL	Elevation	4788'
Log Measured From	KB		
Drilling Measured From	KB		

Date	1-NOV-2021
Run Number	ONE
Depth Driller	21219'
Depth Logger	8362'
Bottom Logged Interval	8361'
Top Log Interval	SURFACE
Open Hole Size	-
Type Fluid	WATER
Density / Viscosity	-
Max. Recorded Temp.	230°F
Estimated Cement Top	-
Time Well Ready	ROA
Time Logger on Bottom	7:06
Equipment Number	80
Location	PLATTEVILLE, CO
Recorded By	C. WILKINS
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"	40#	SURFACE	2063'
Prot. String				
Production String	5-1/2"	20#	SURFACE	21219'
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

TOOLS RAN AS PER TOOLSTRING DIAGRAM  
TOOLSTRING CENTRALIZED VIA 3 X GEMCO CENTRALIZERS  
CORRELATED TO MARKER JOINT AT 7256' - 7267'  
  
THANK YOU FOR USING KLX ENERGY SERVICES

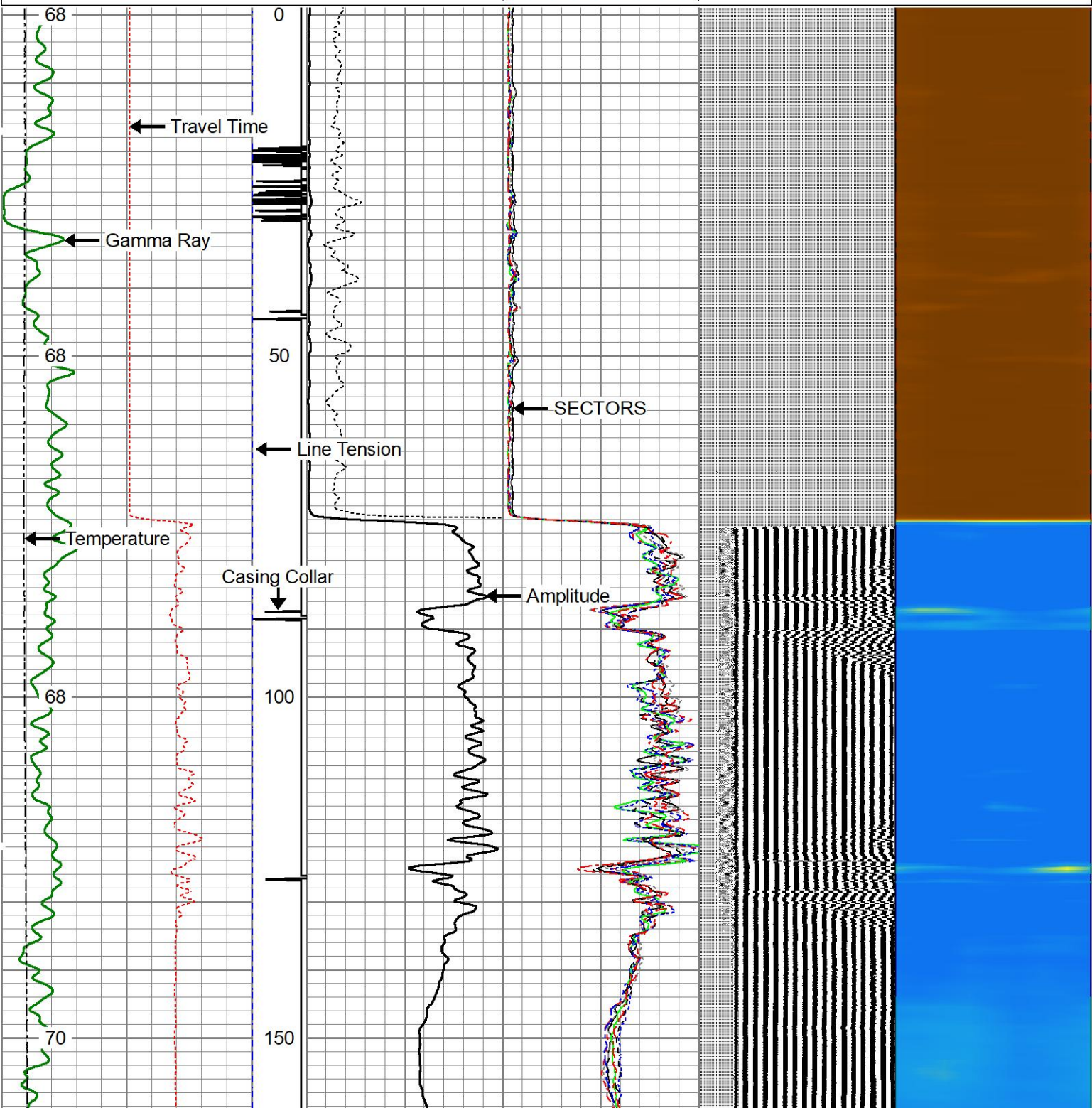


MAIN PASS

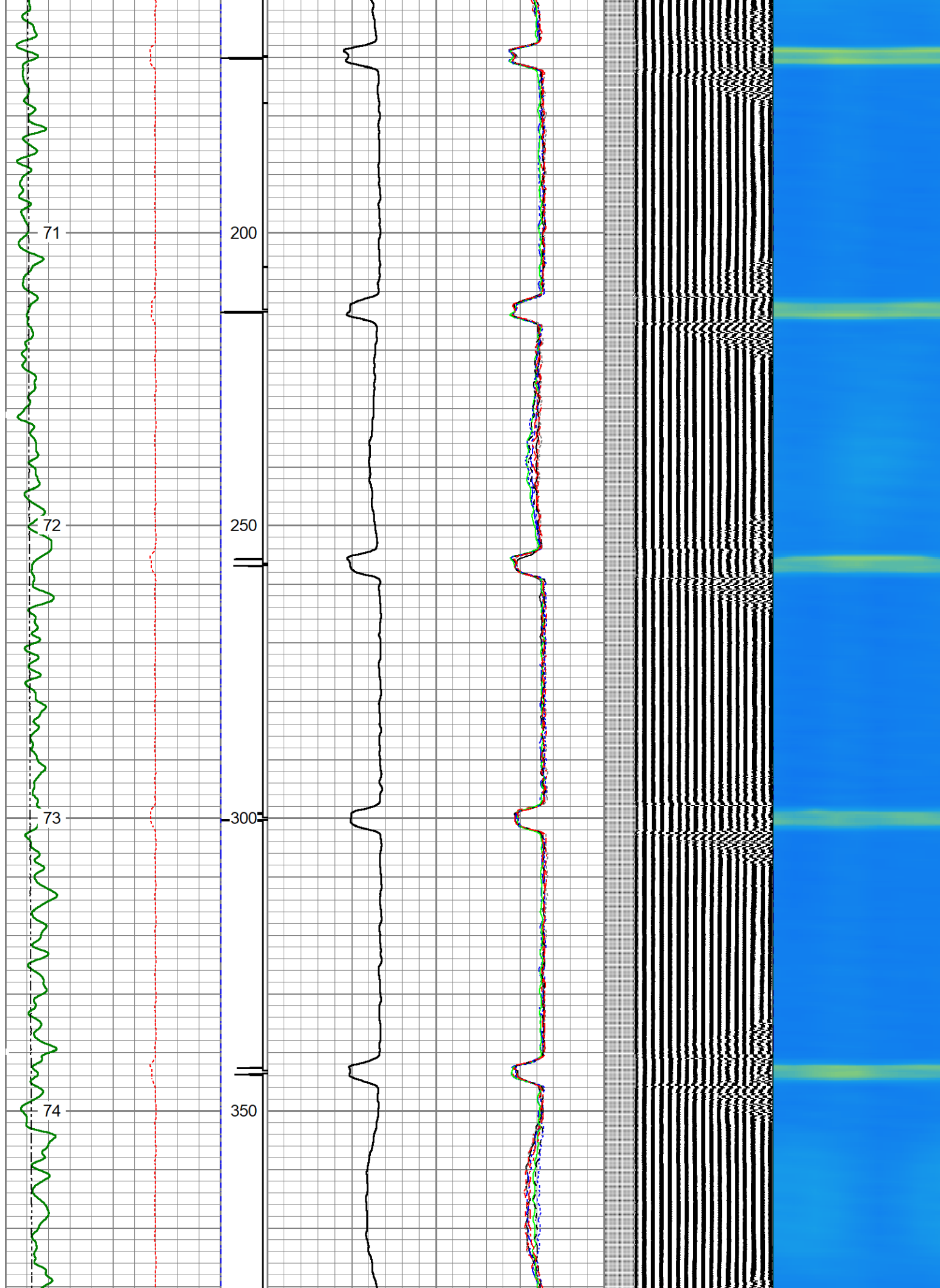
LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

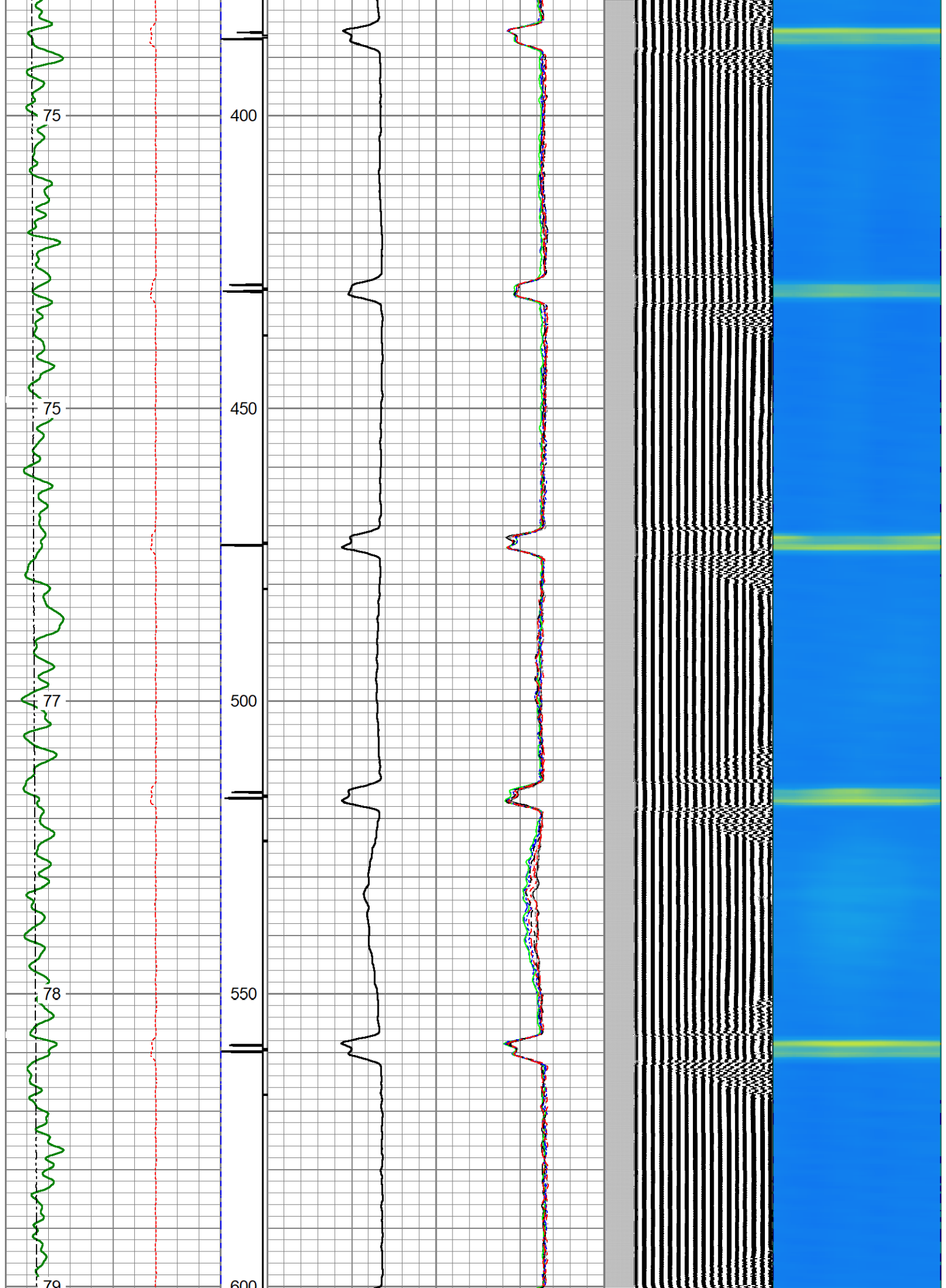
Database File	raindance_fc_23-272hc_rcbl11-01-21.db
Dataset Pathname	RCBL1/merge1
Presentation Format	rcbl_hh
Dataset Creation	Mon Nov 01 08:50:17 2021
Charted by	Depth in Feet scaled 1:240

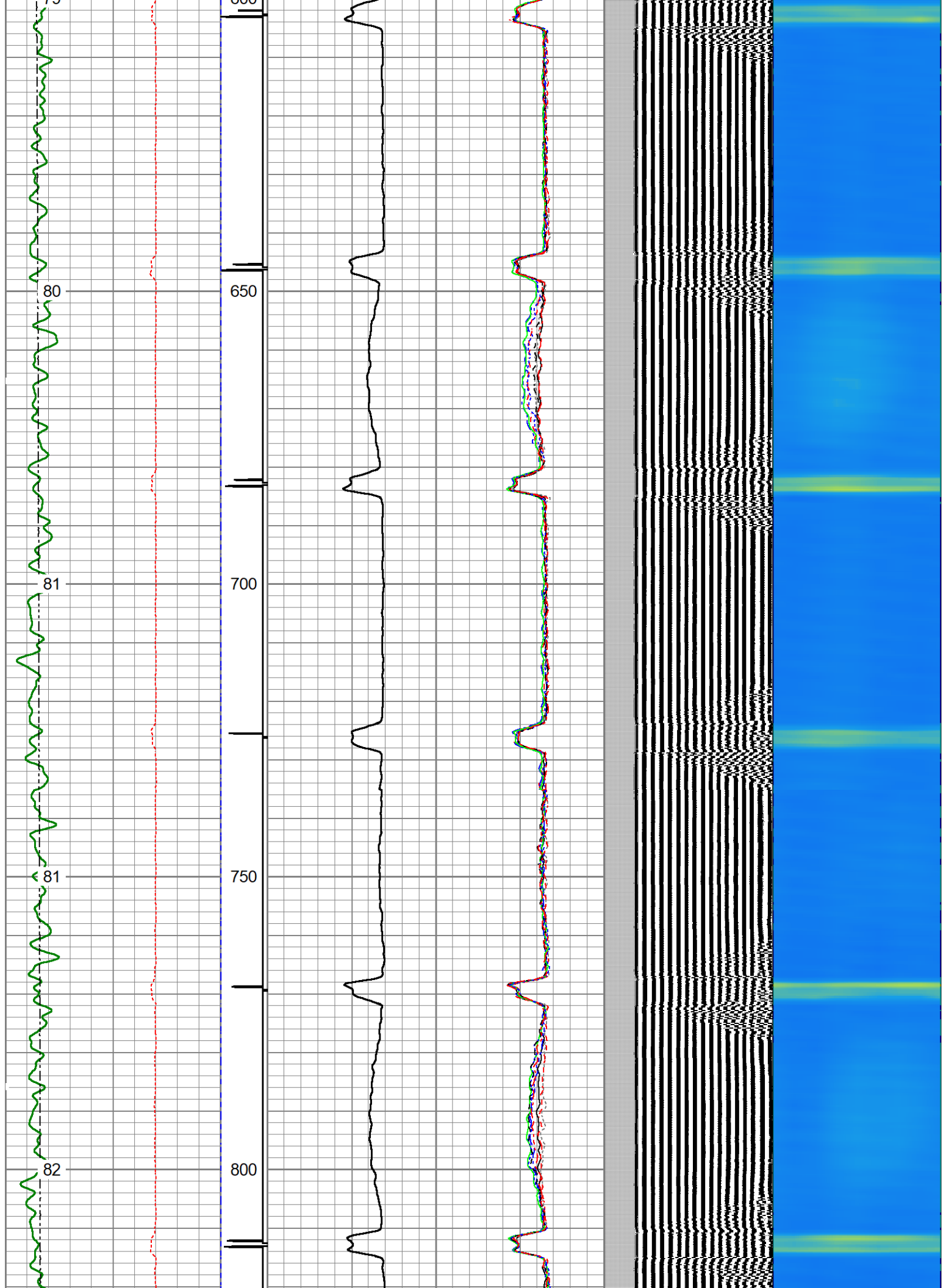
400	Travel Time (usec)	200	ing Co	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density		1	Cement Map	8
0	Gamma Ray (GAPI)	150	9	-1	Amplified Amplitude		-5	Sector 2	150	(usec)		200		1200
50	TEMP (degF)	250	e Tens	0	(mV)	10	-5	Sector 3	150					
TEMP			(lb				-5	Sector 4	150					
(degF)			(2000				-5	Sector 5	150					
							-5	Sector 6	150					
							-5	Sector 7	150					
							-5	Sector 8	150					

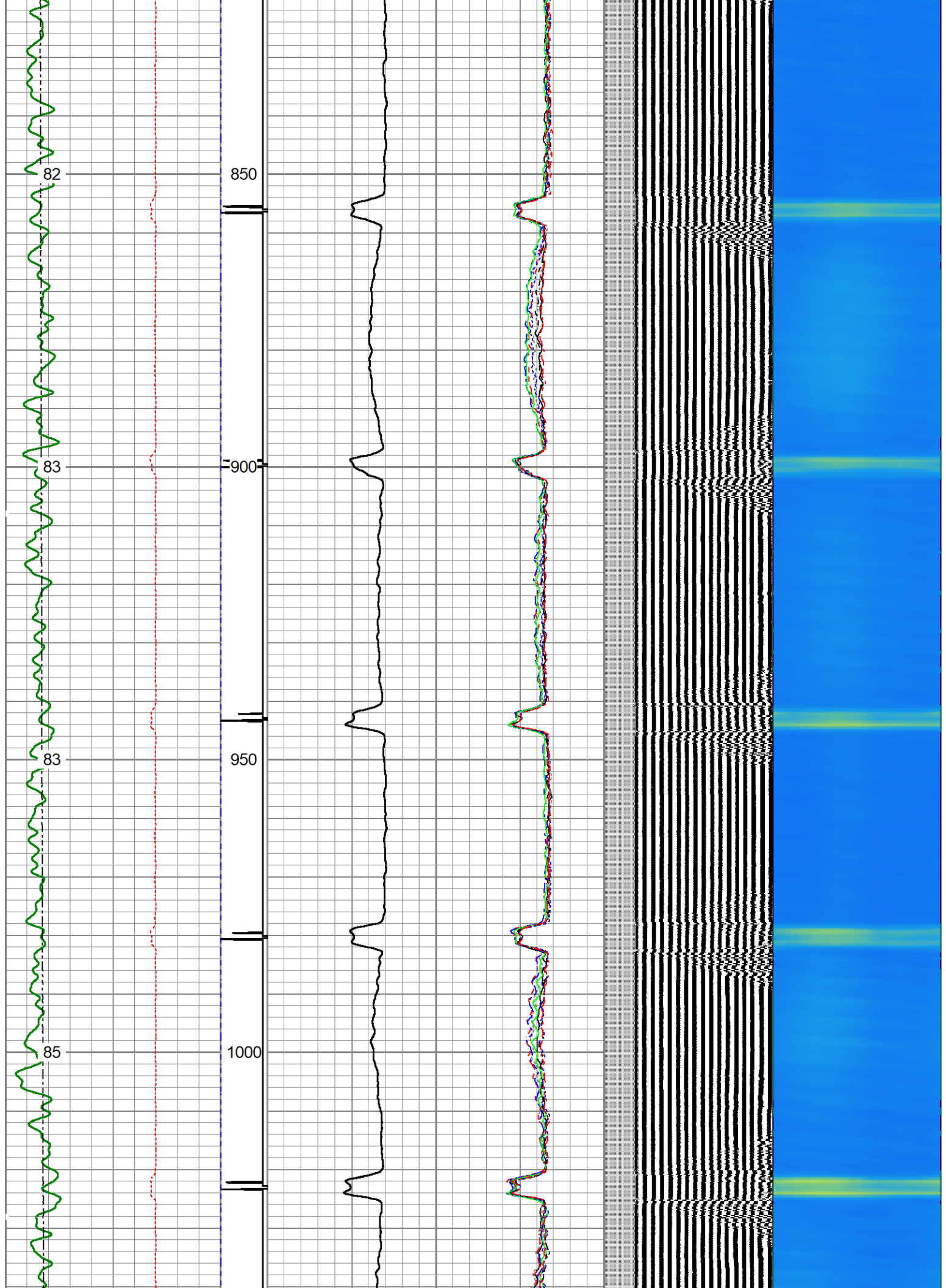




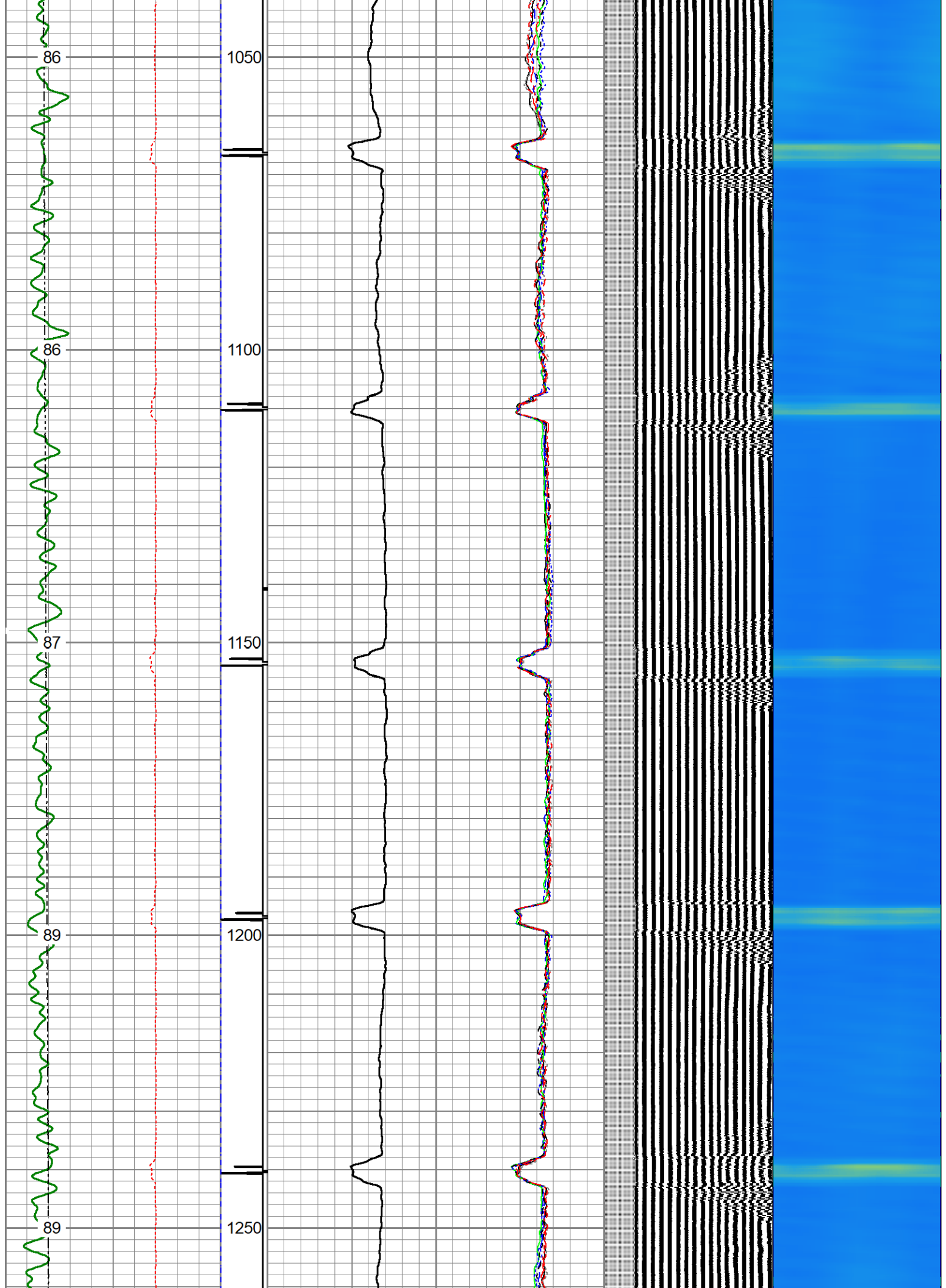


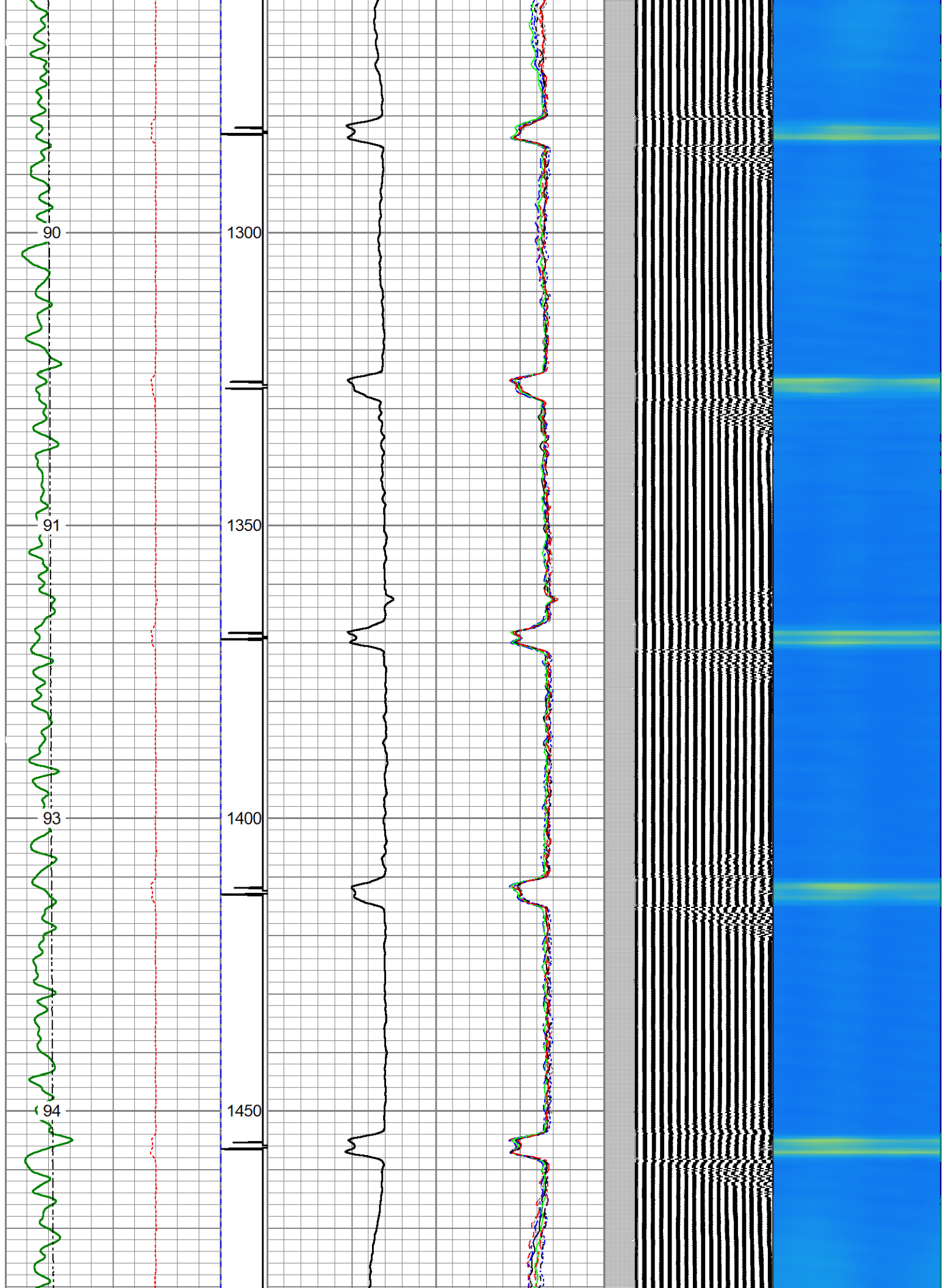




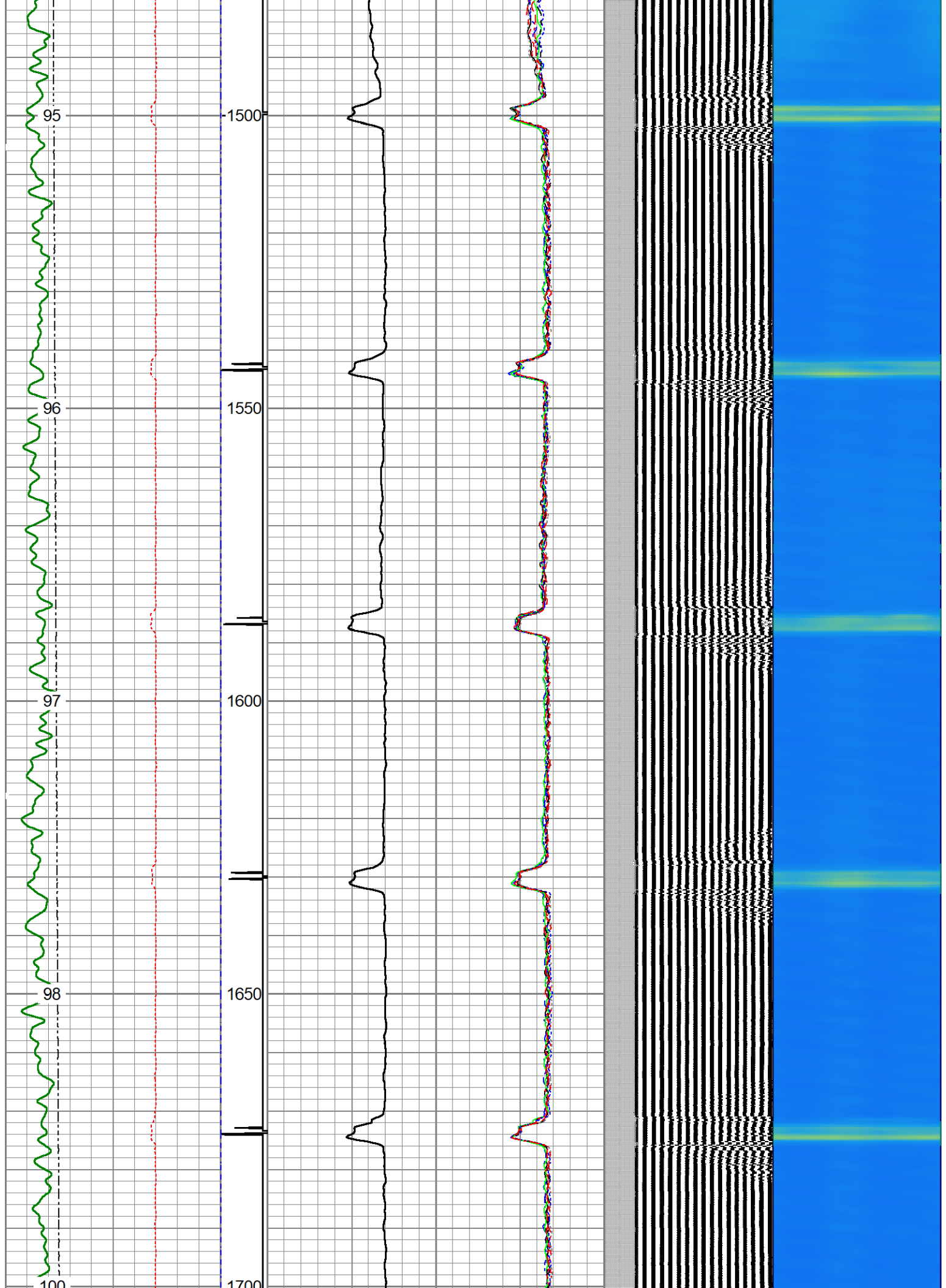


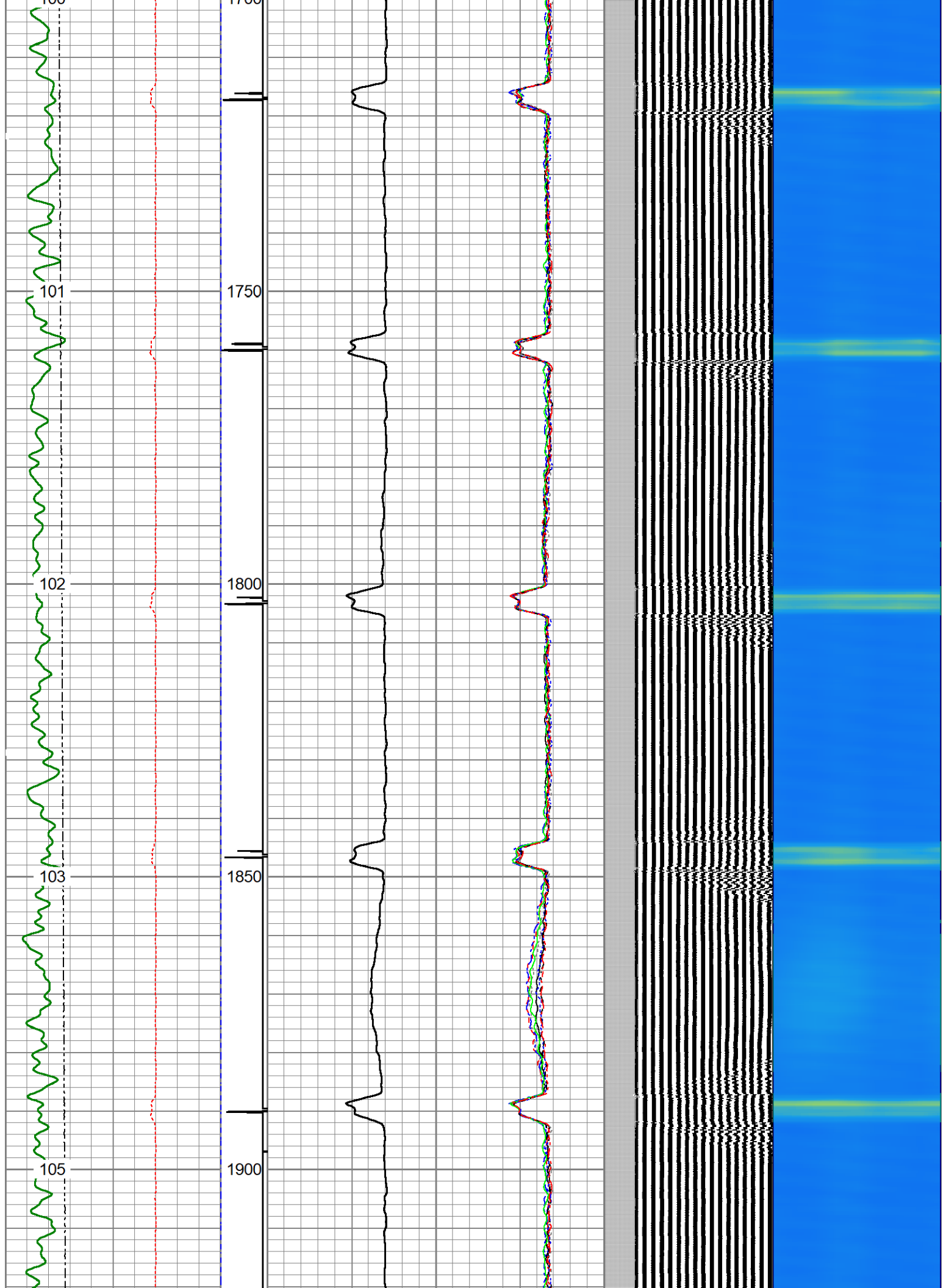


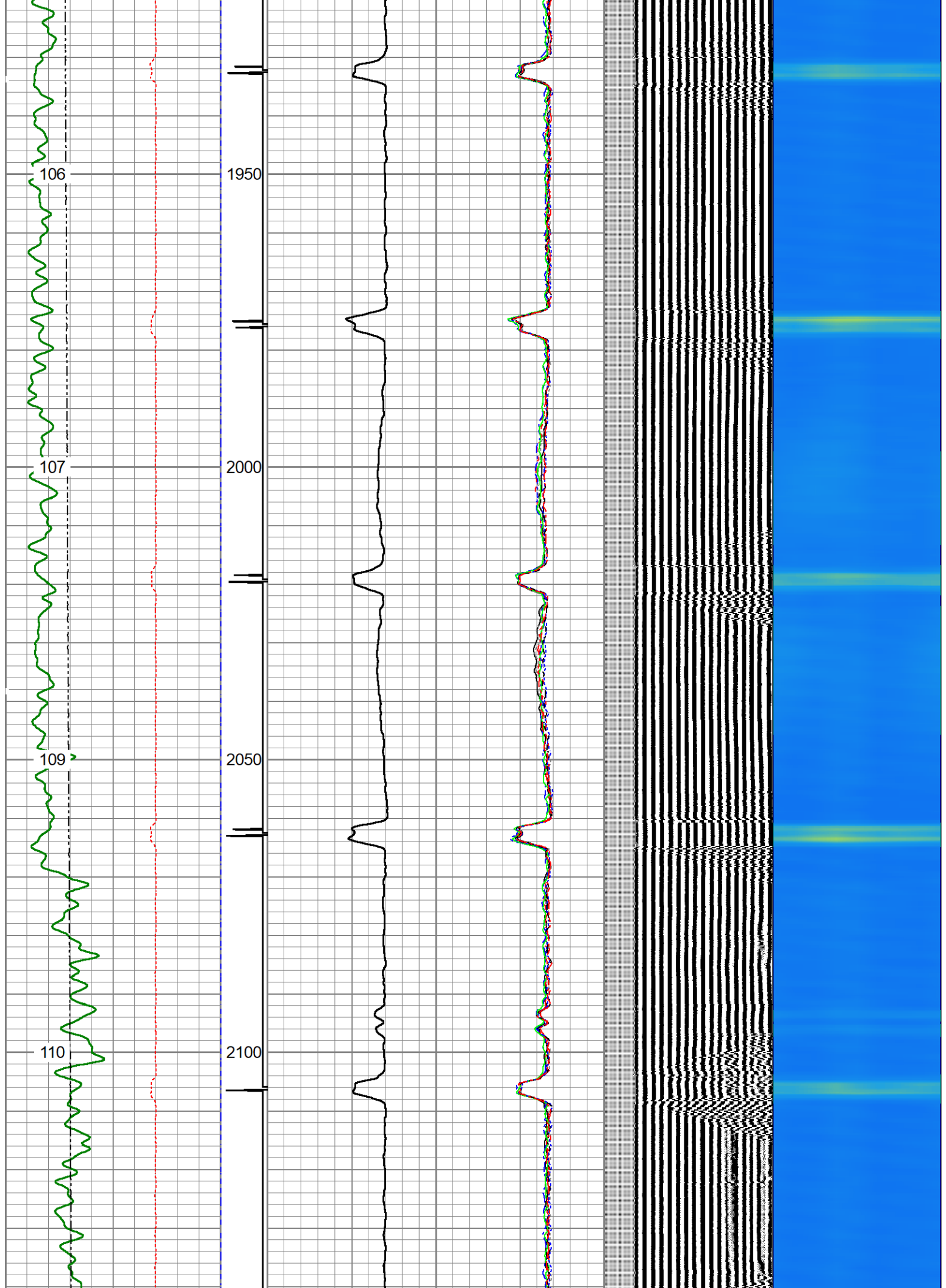




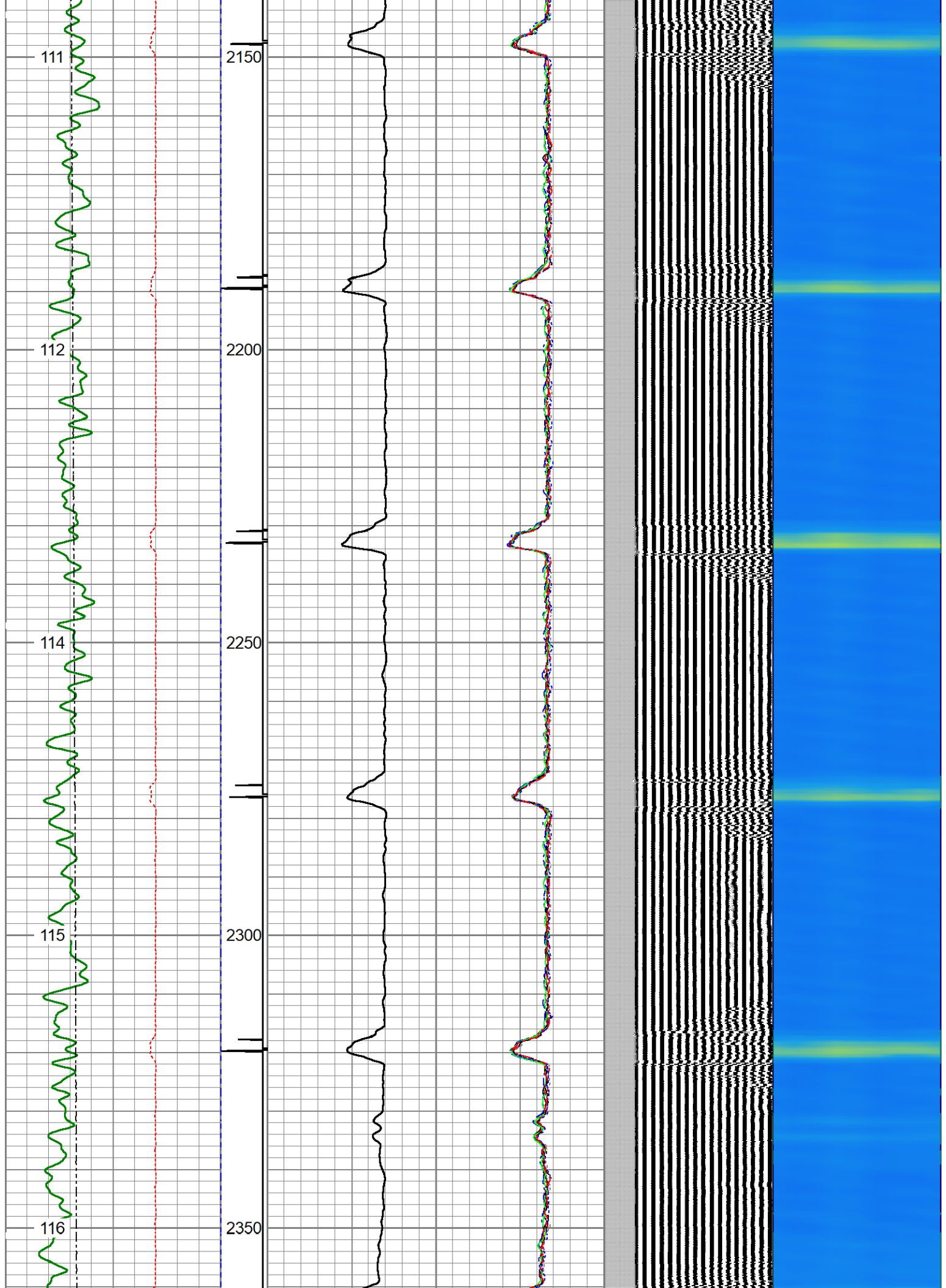


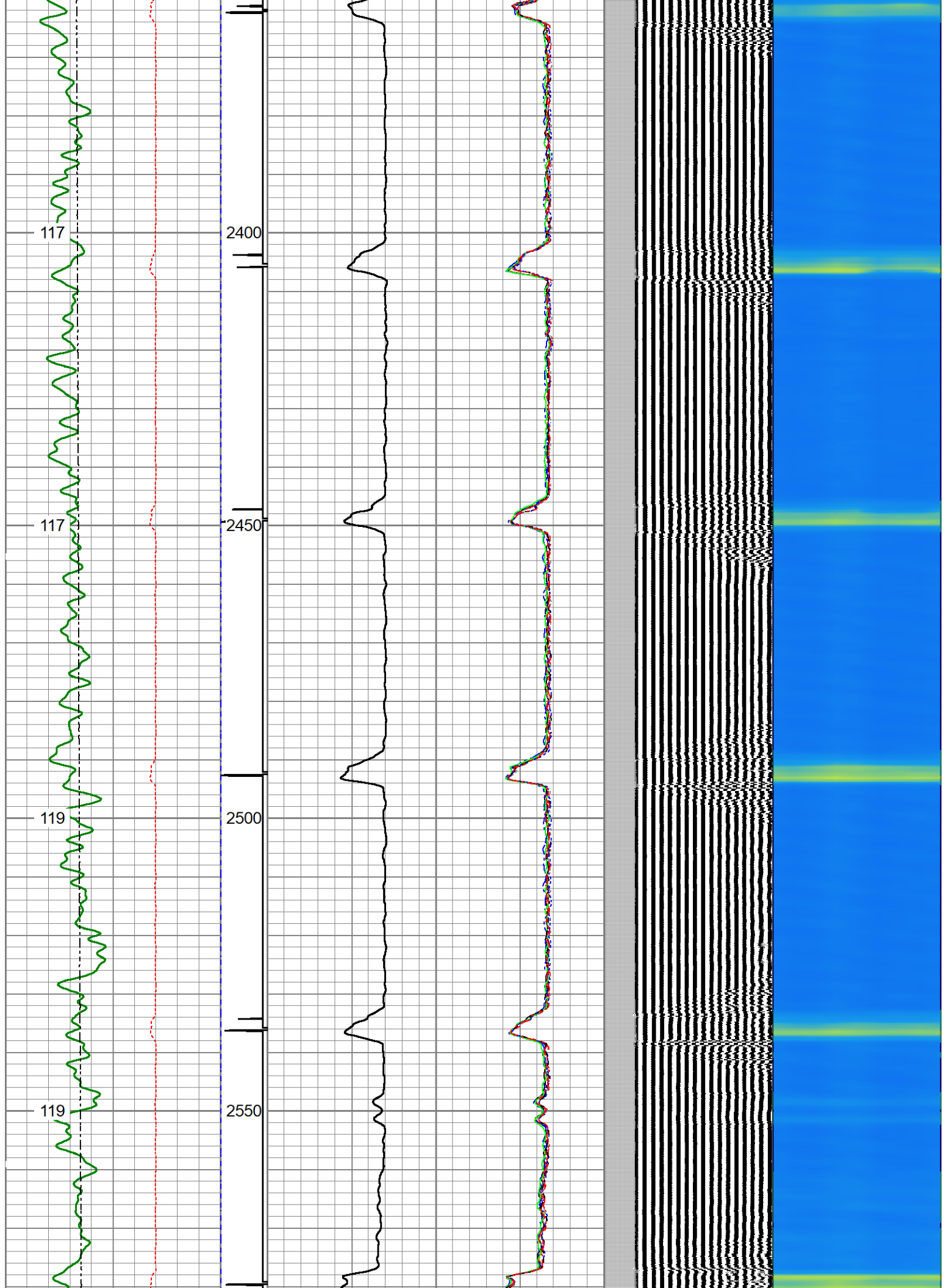


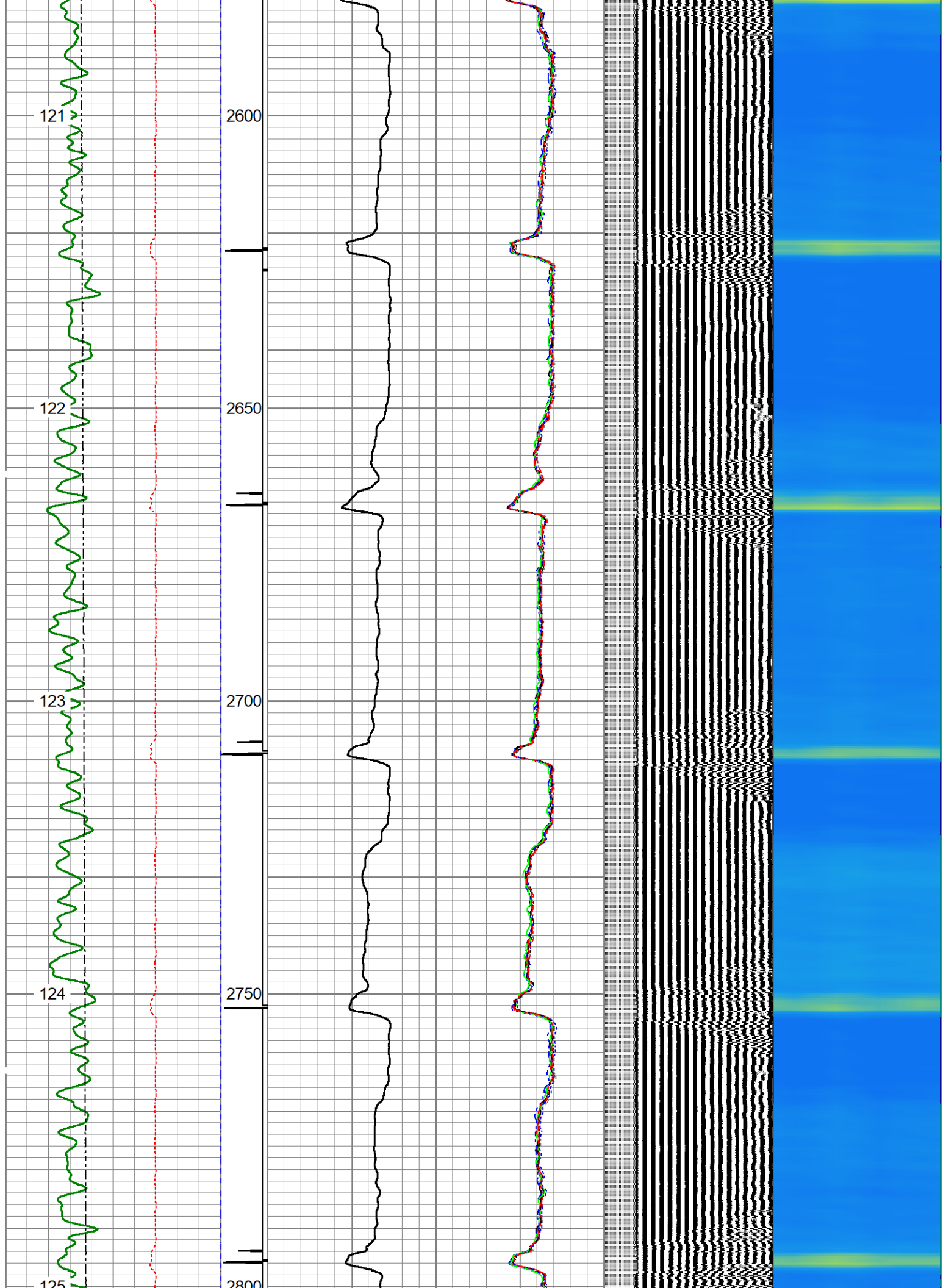




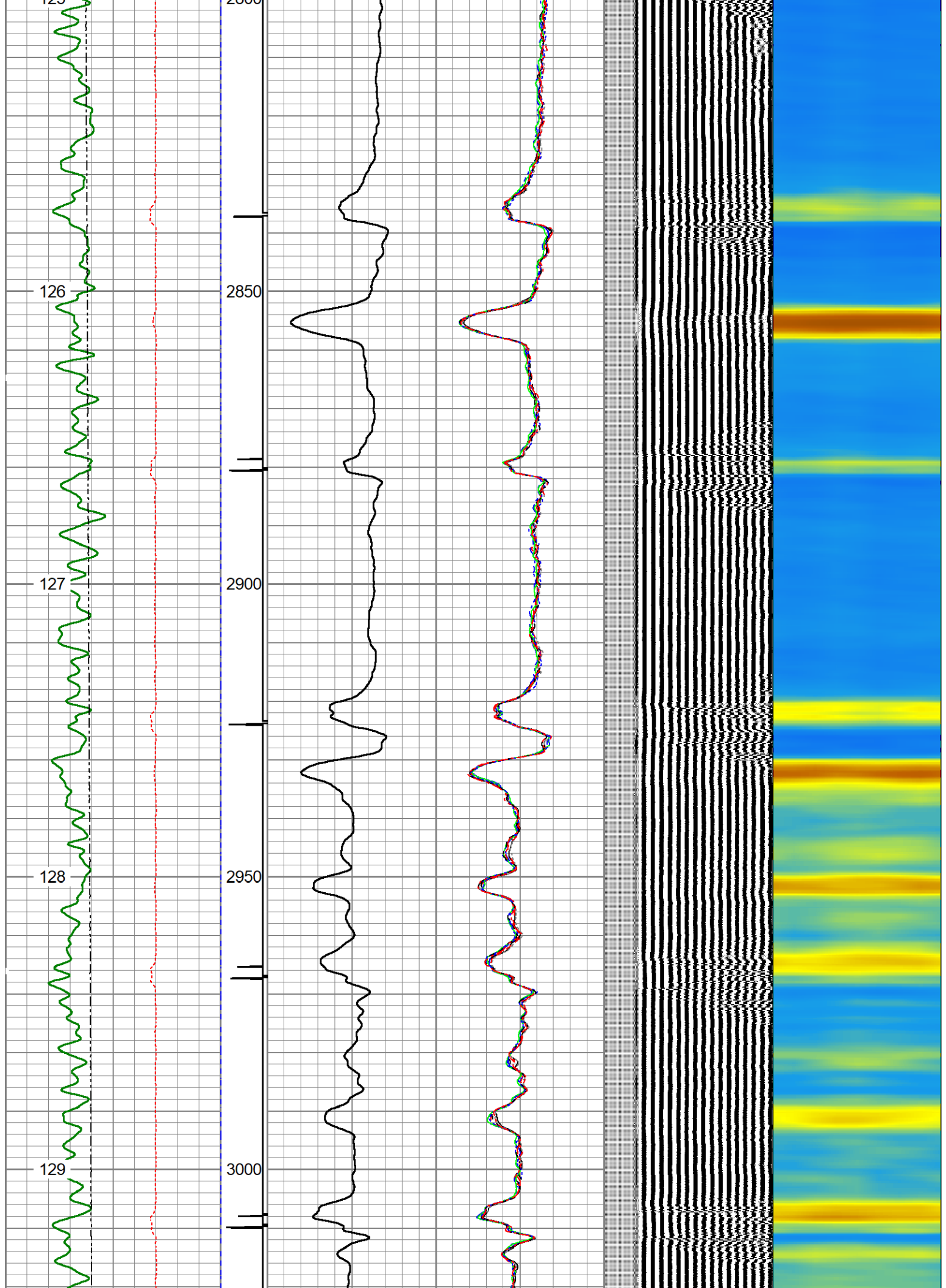


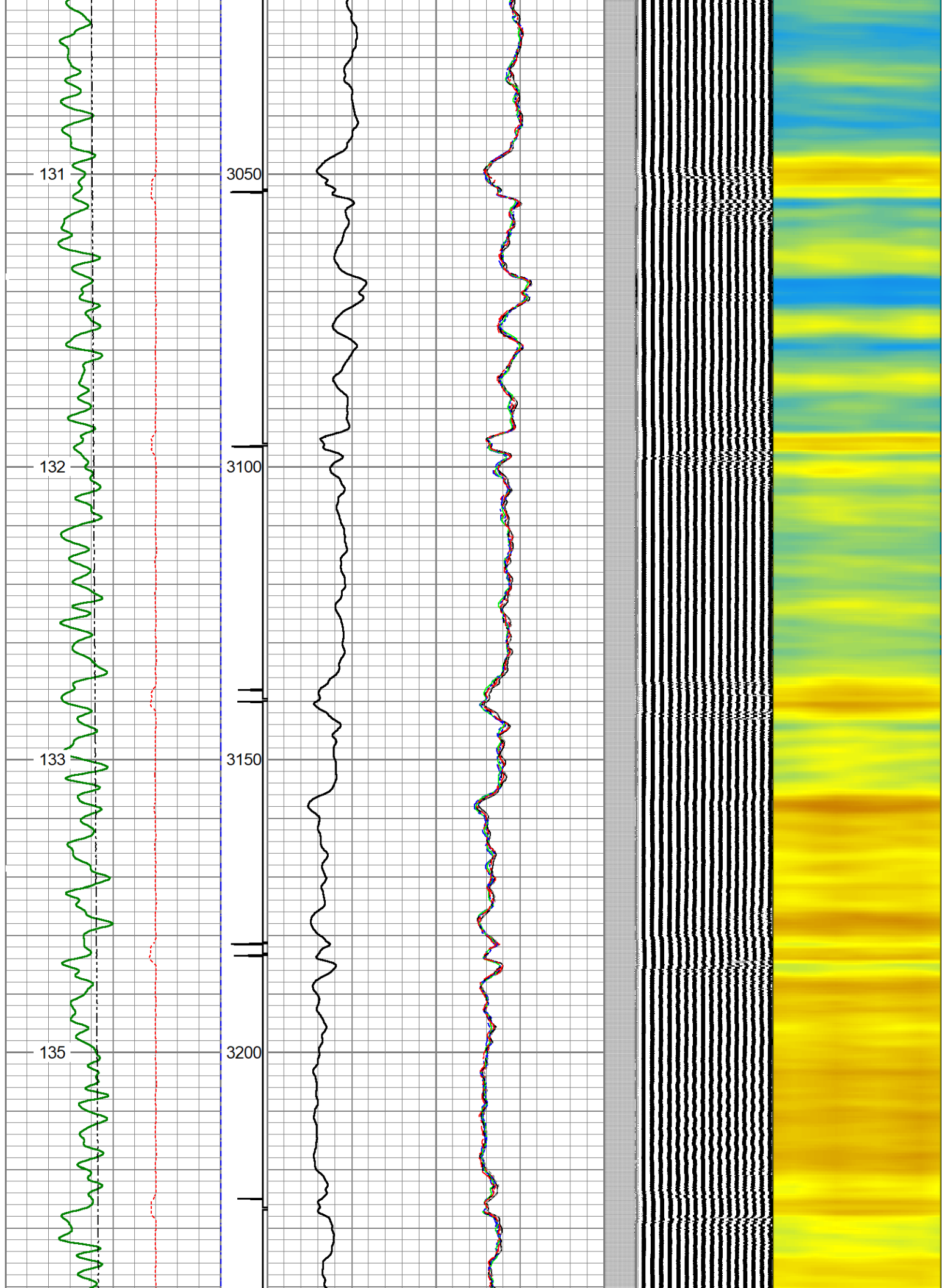


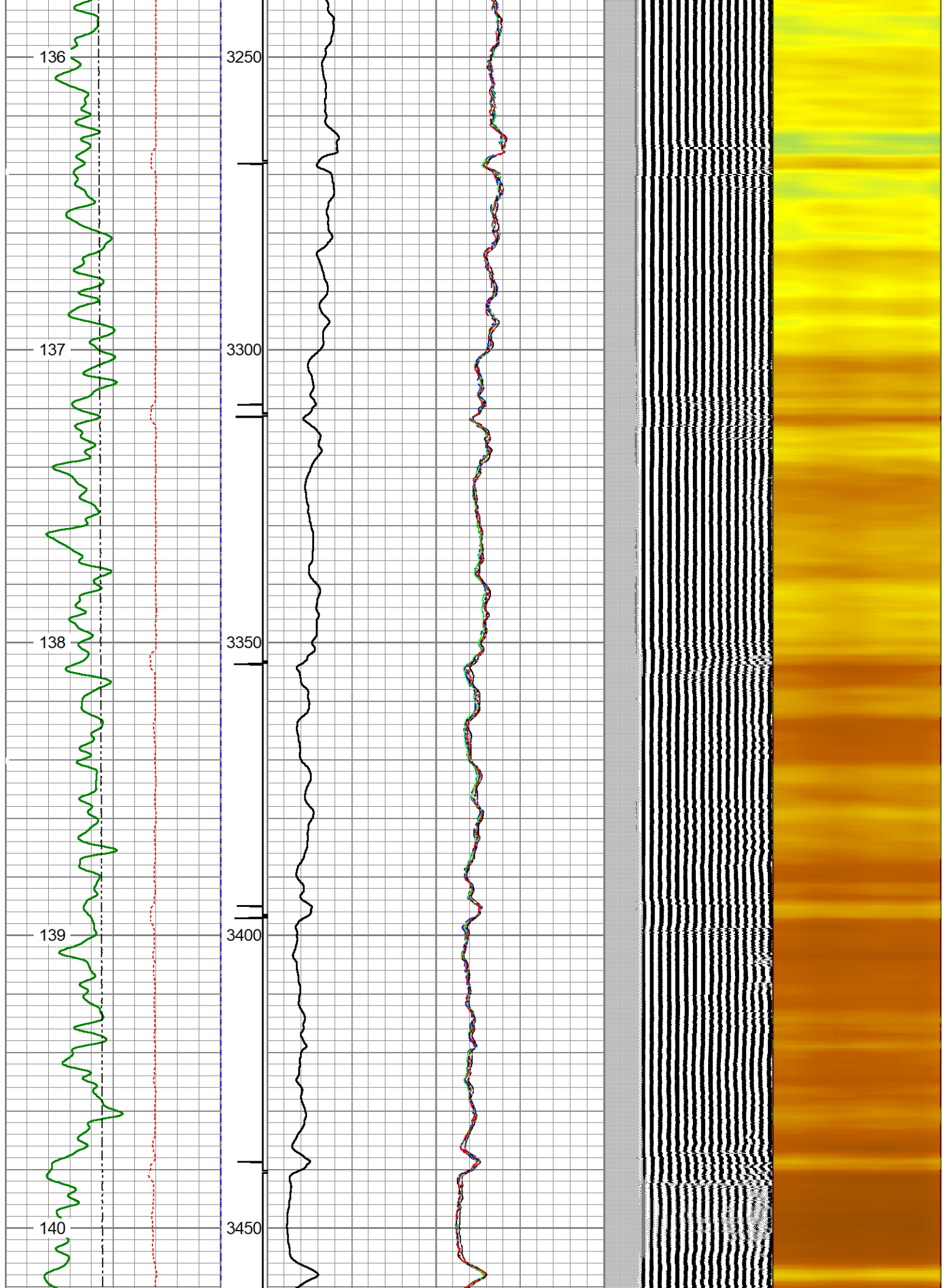




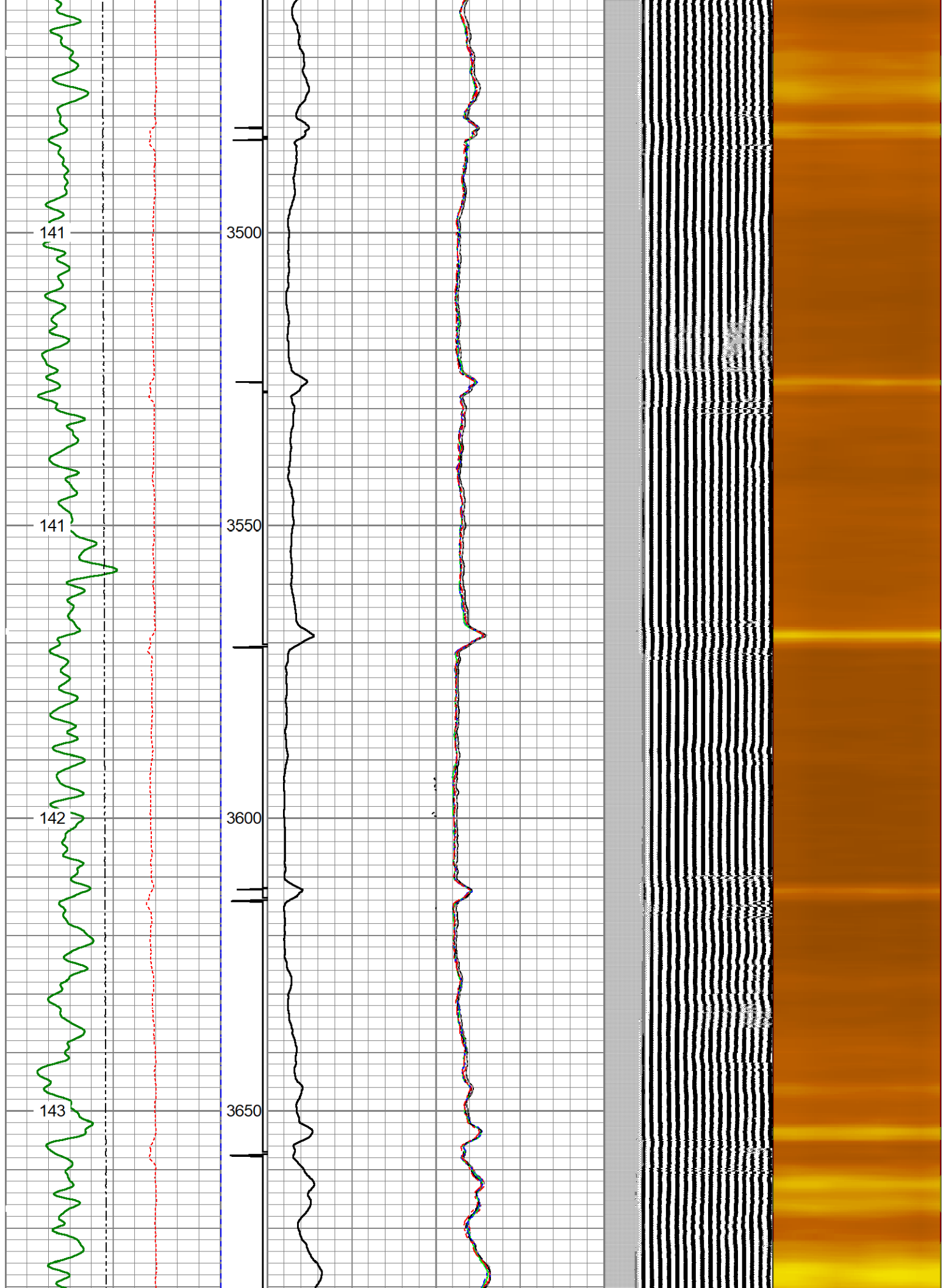


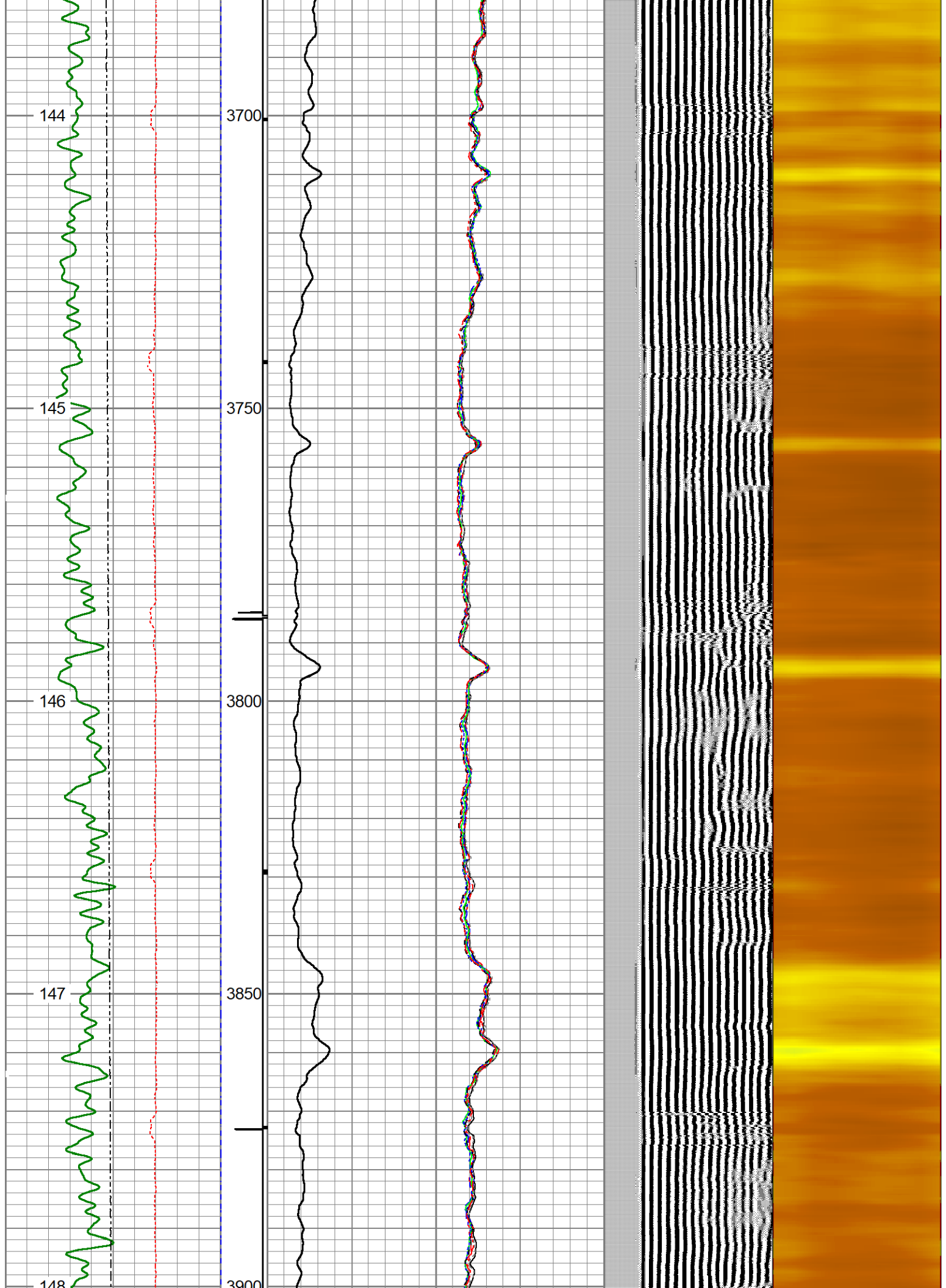


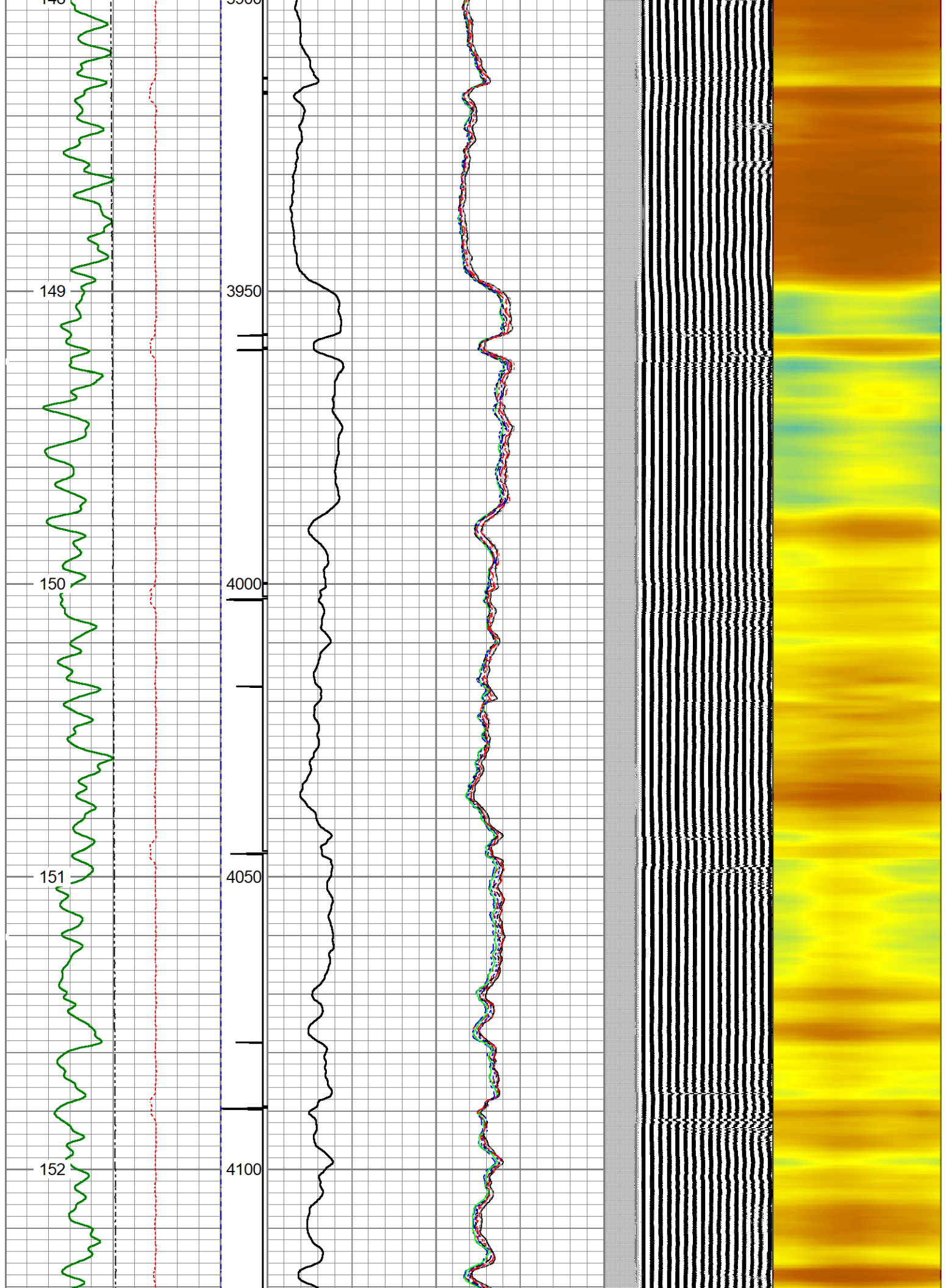




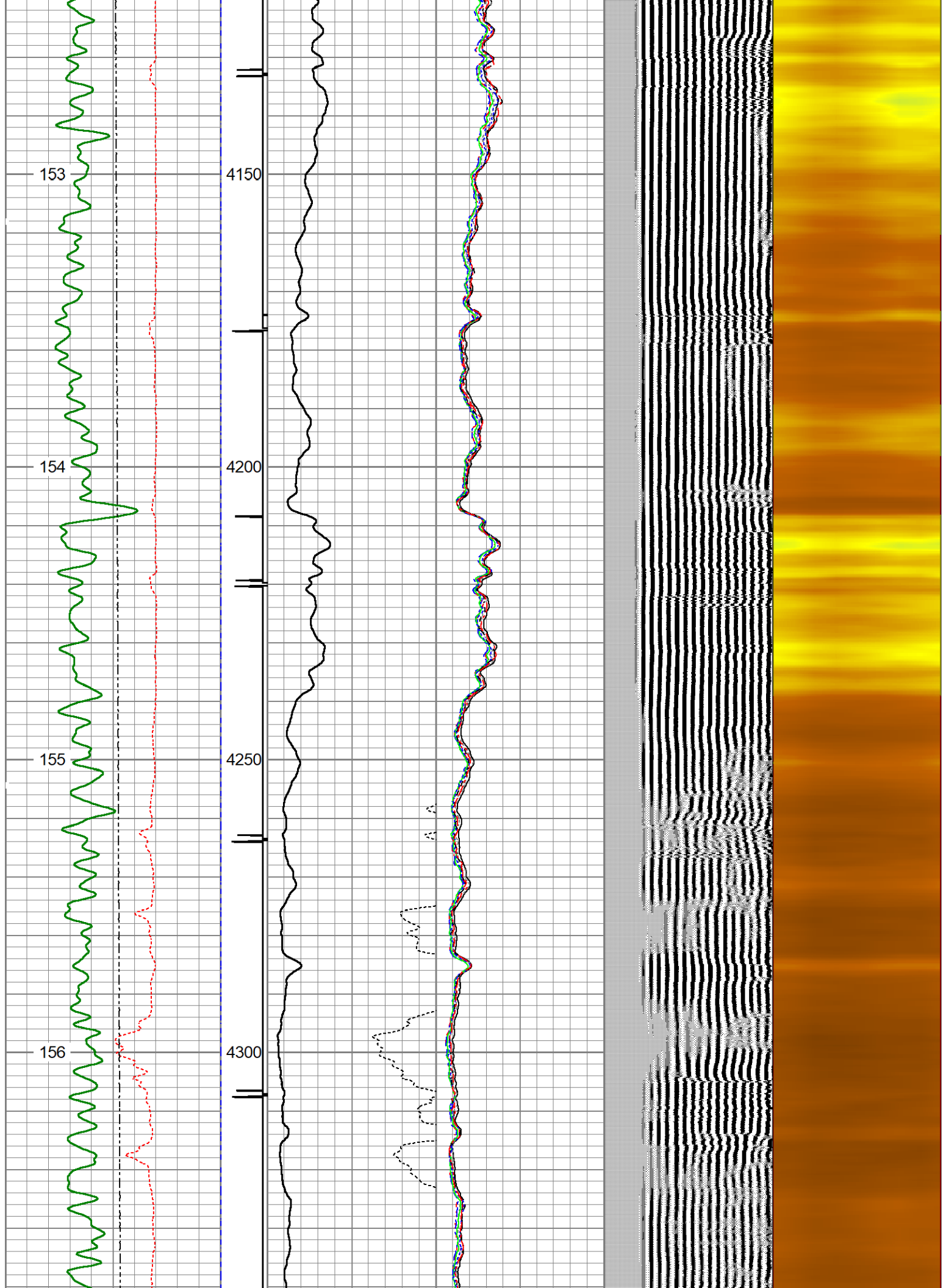


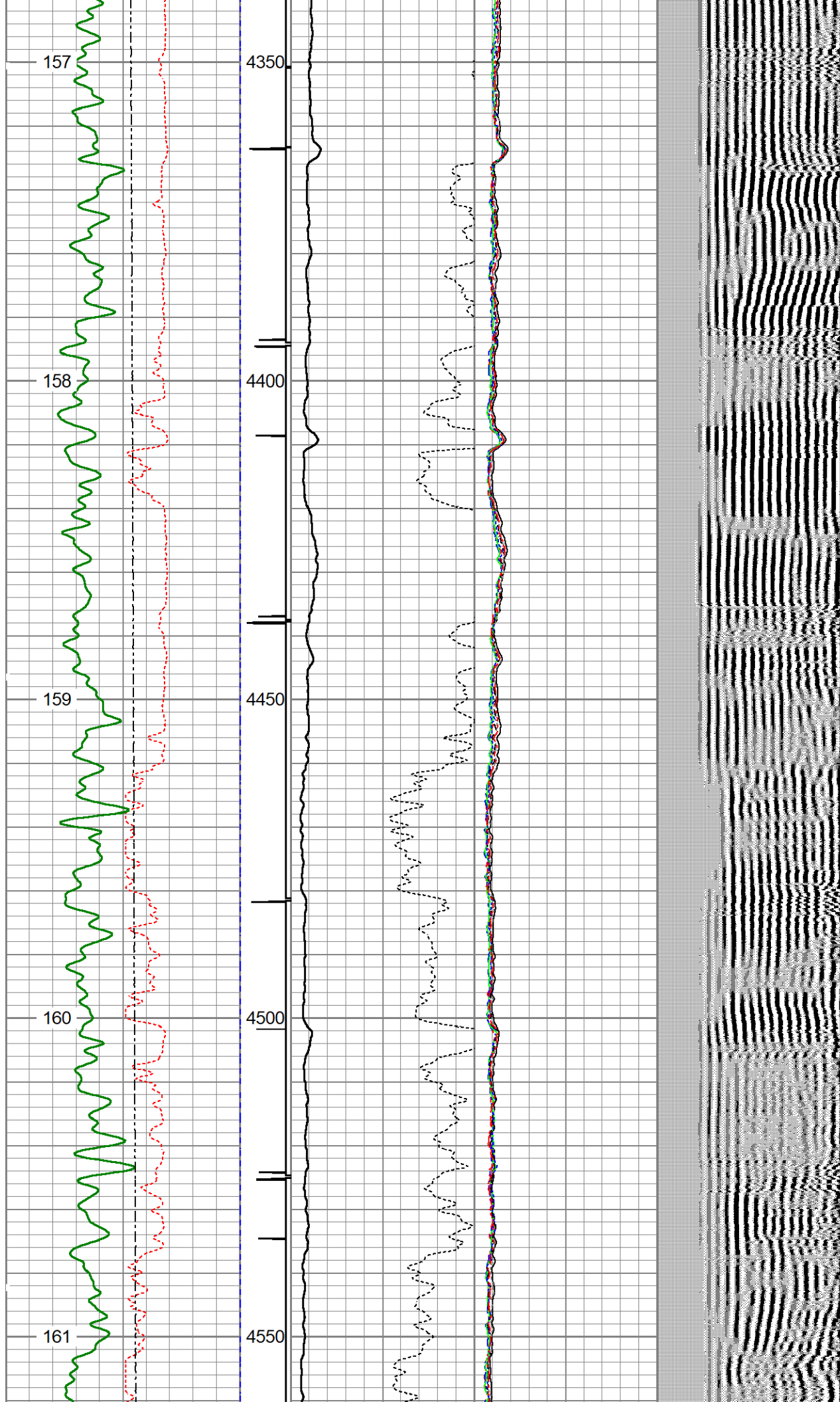


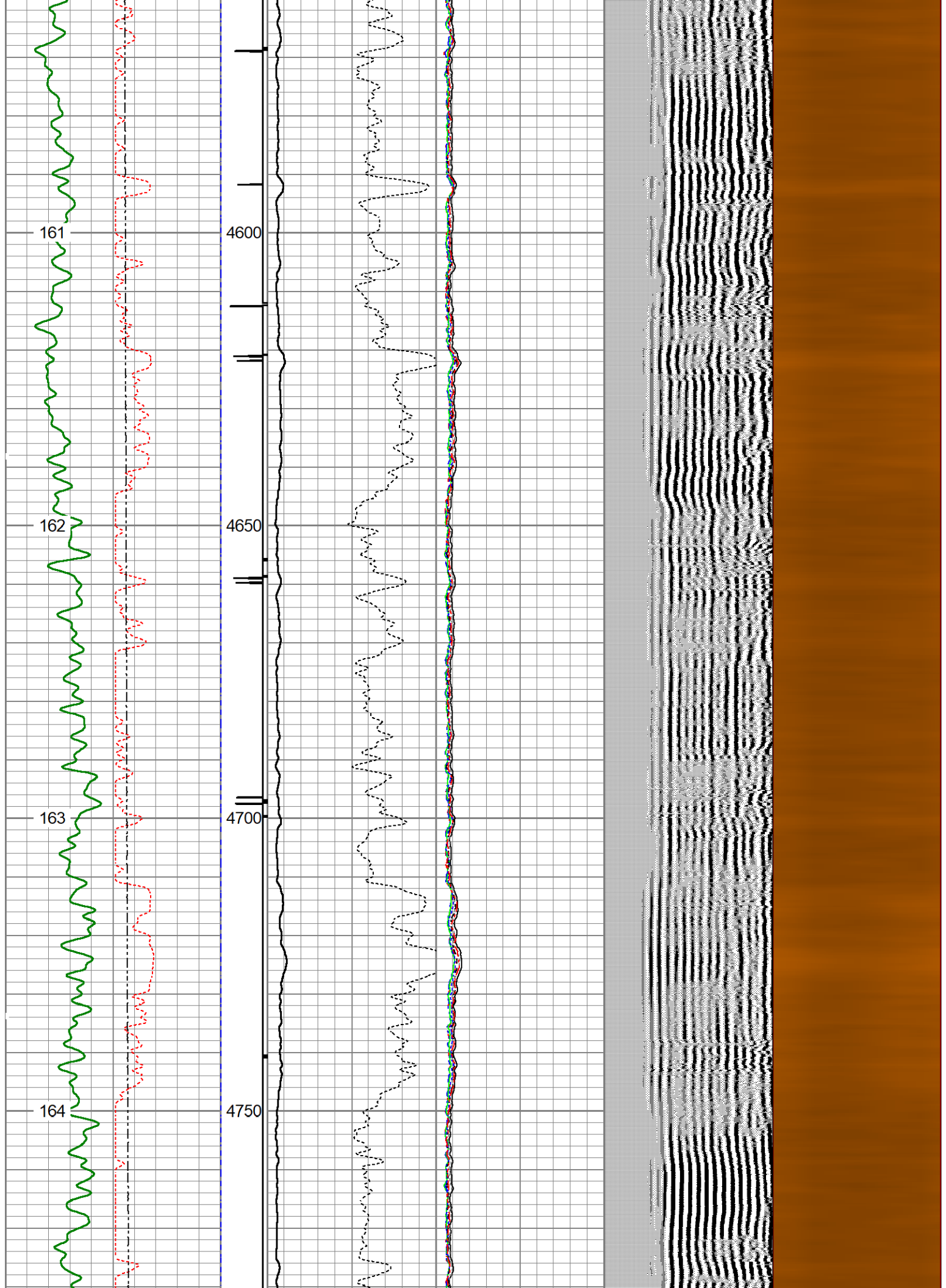




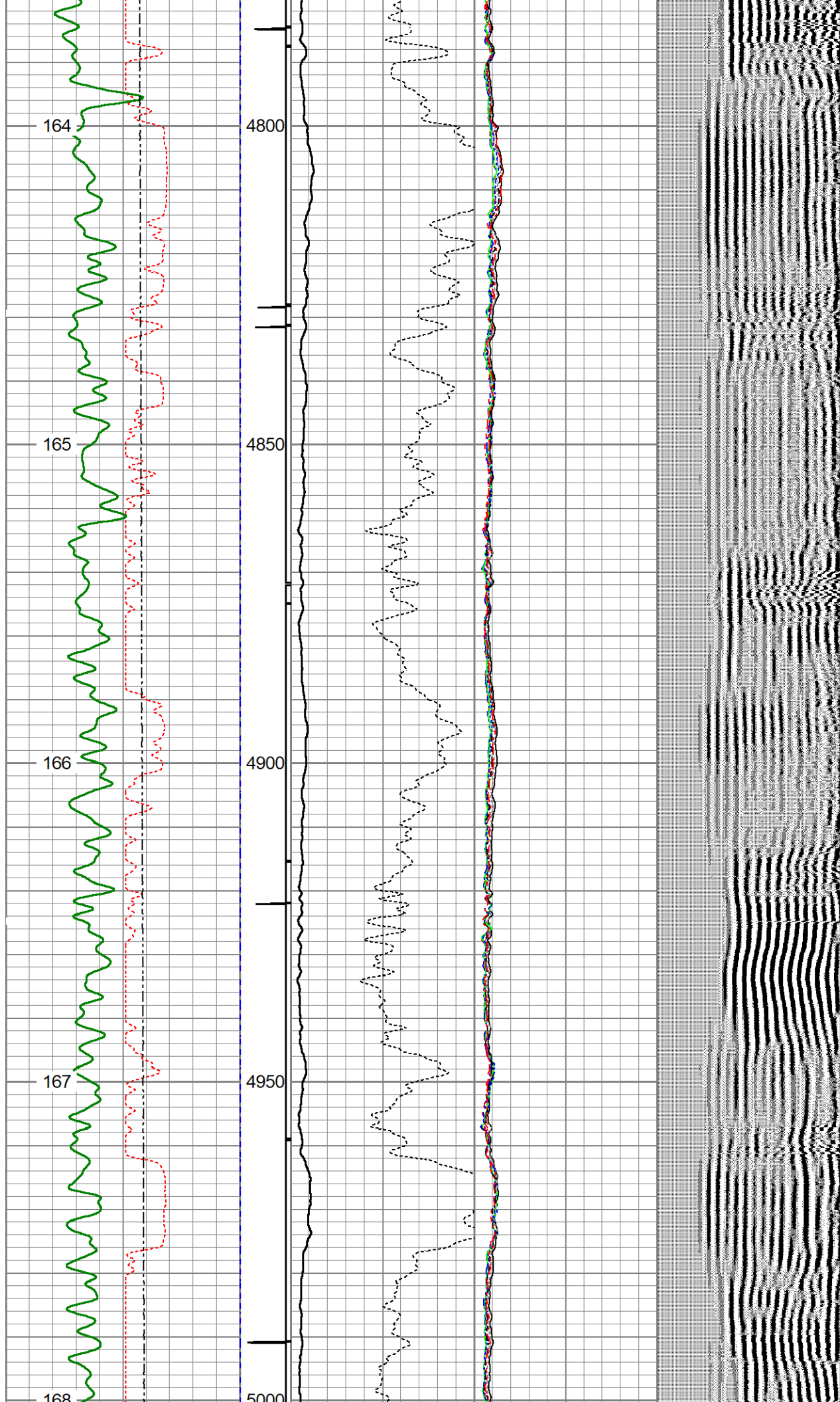




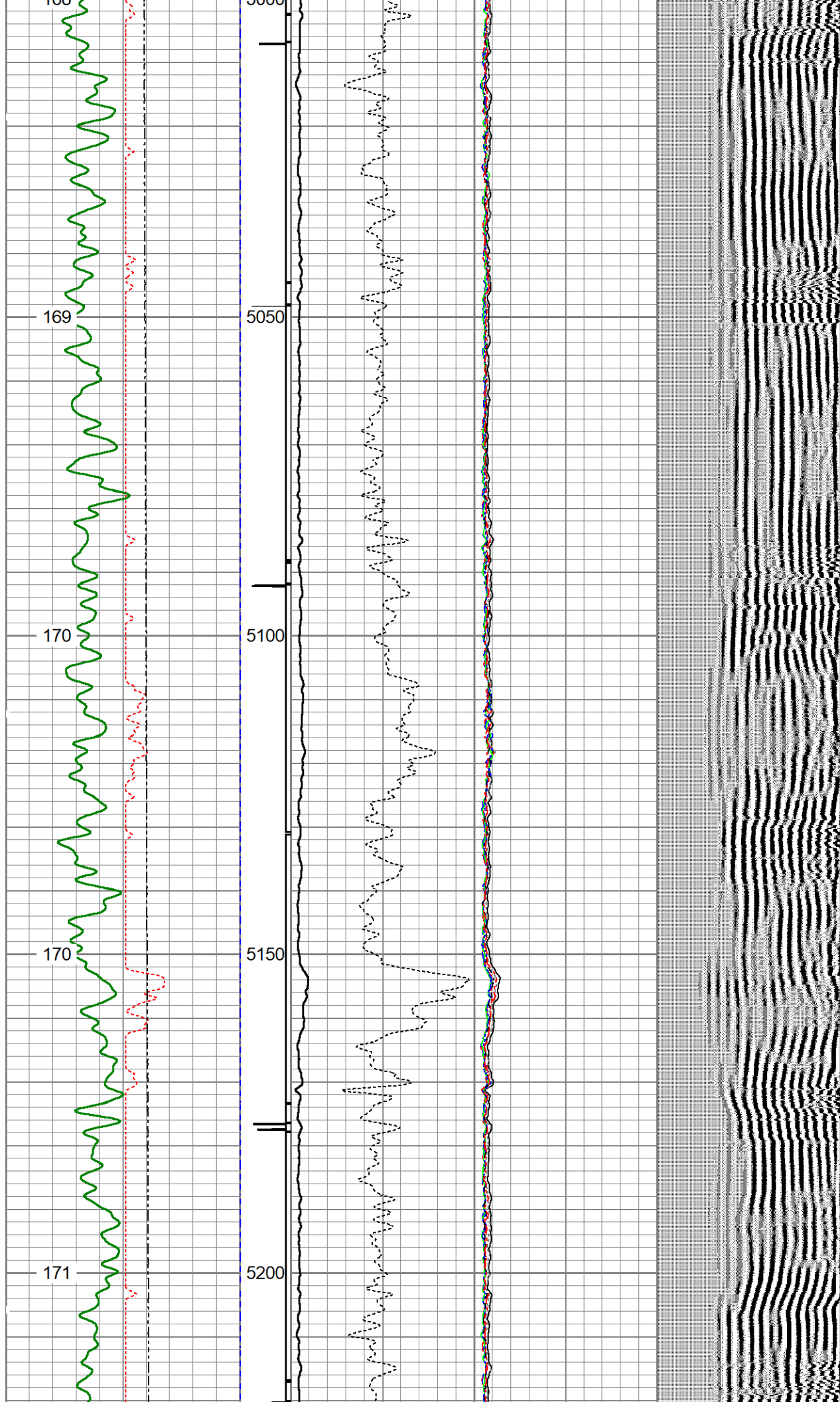


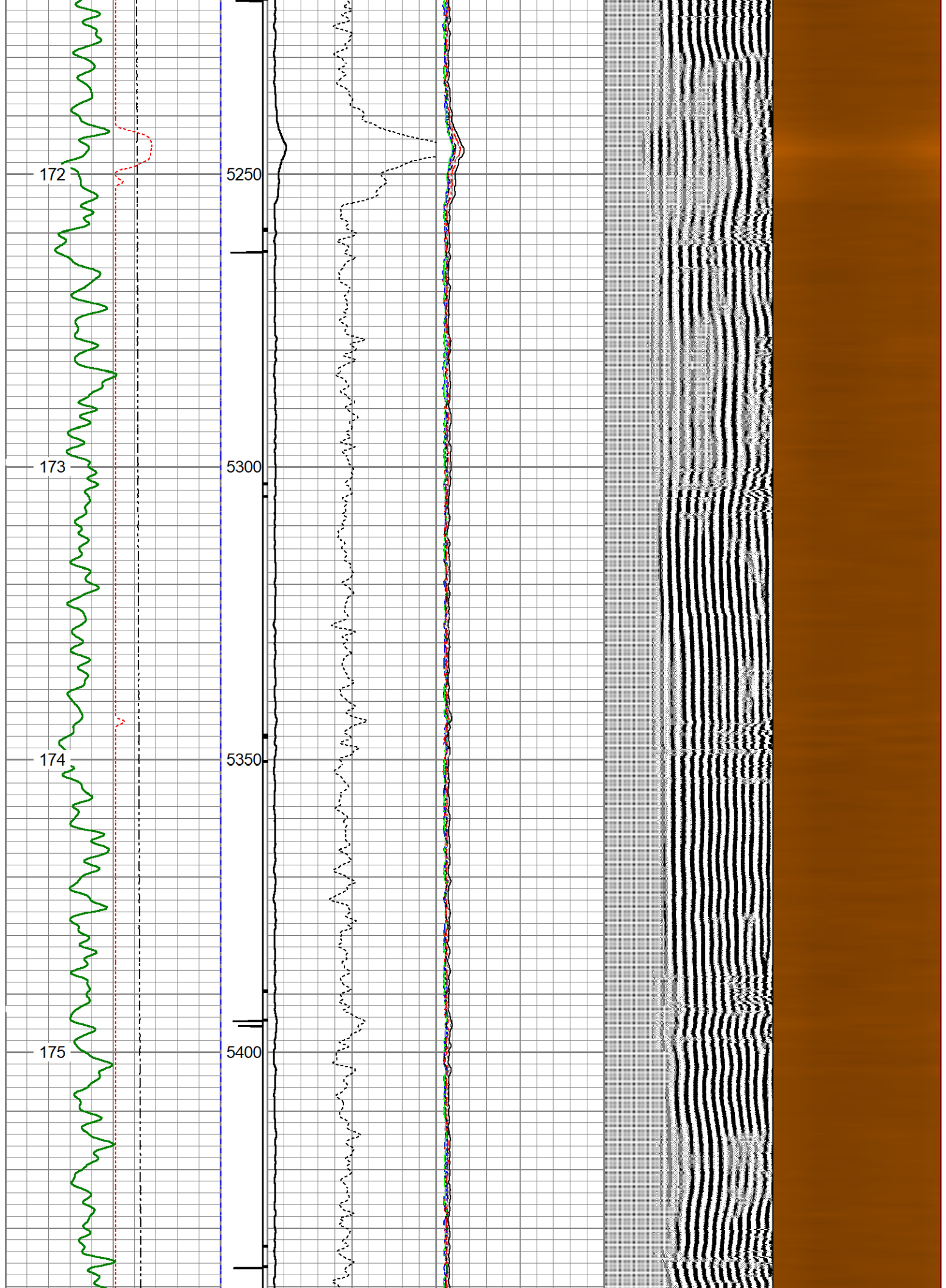


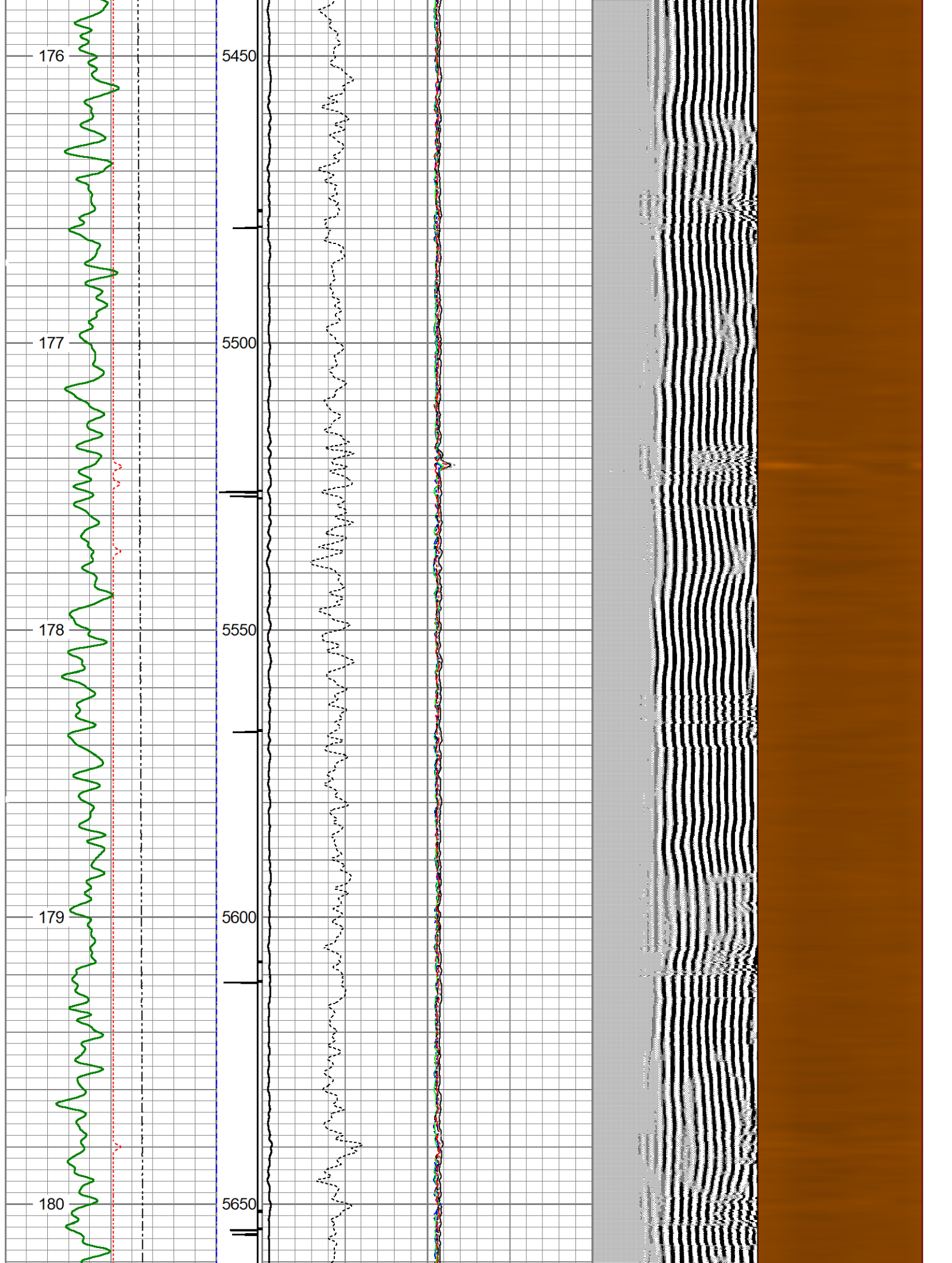




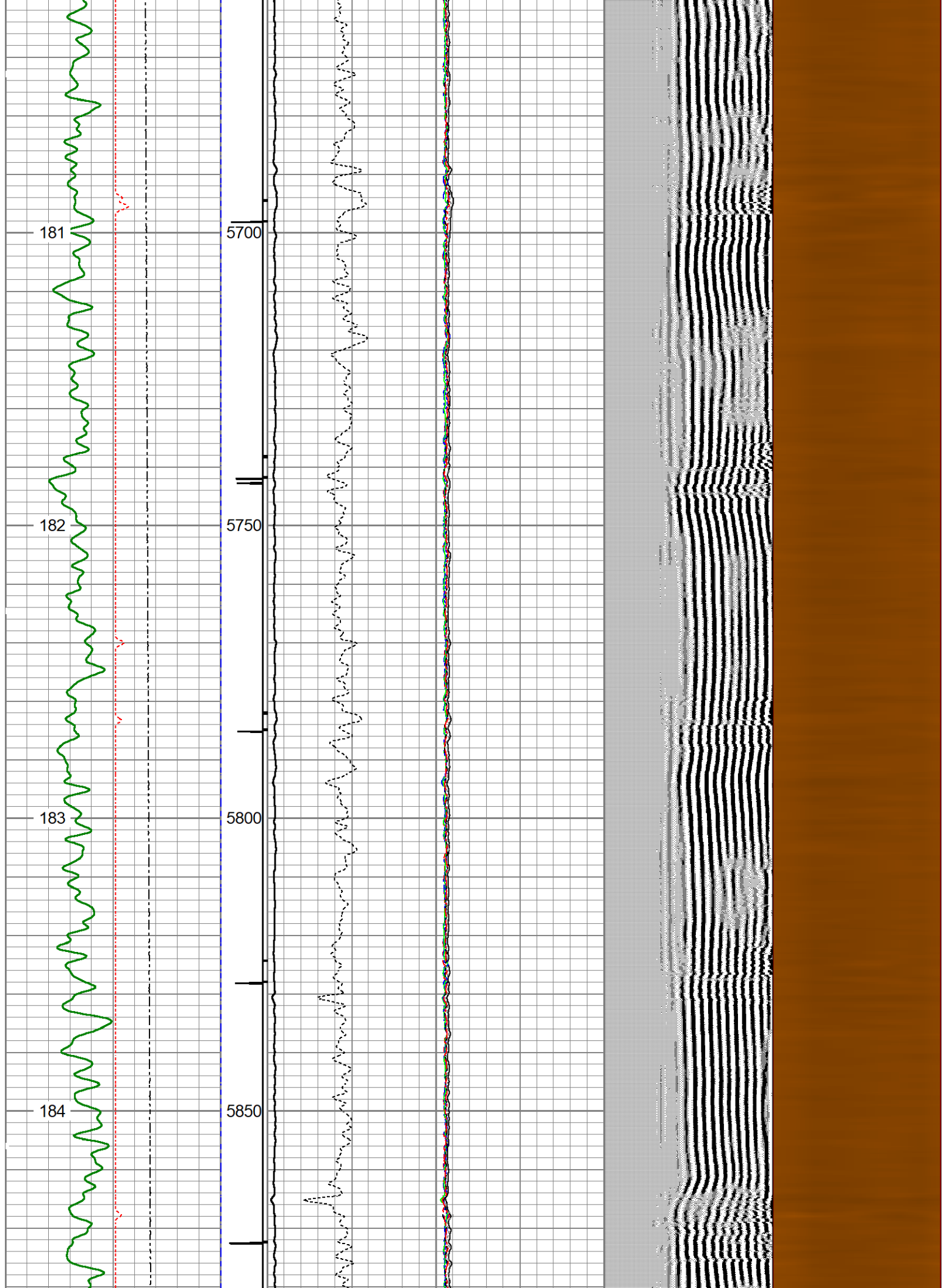




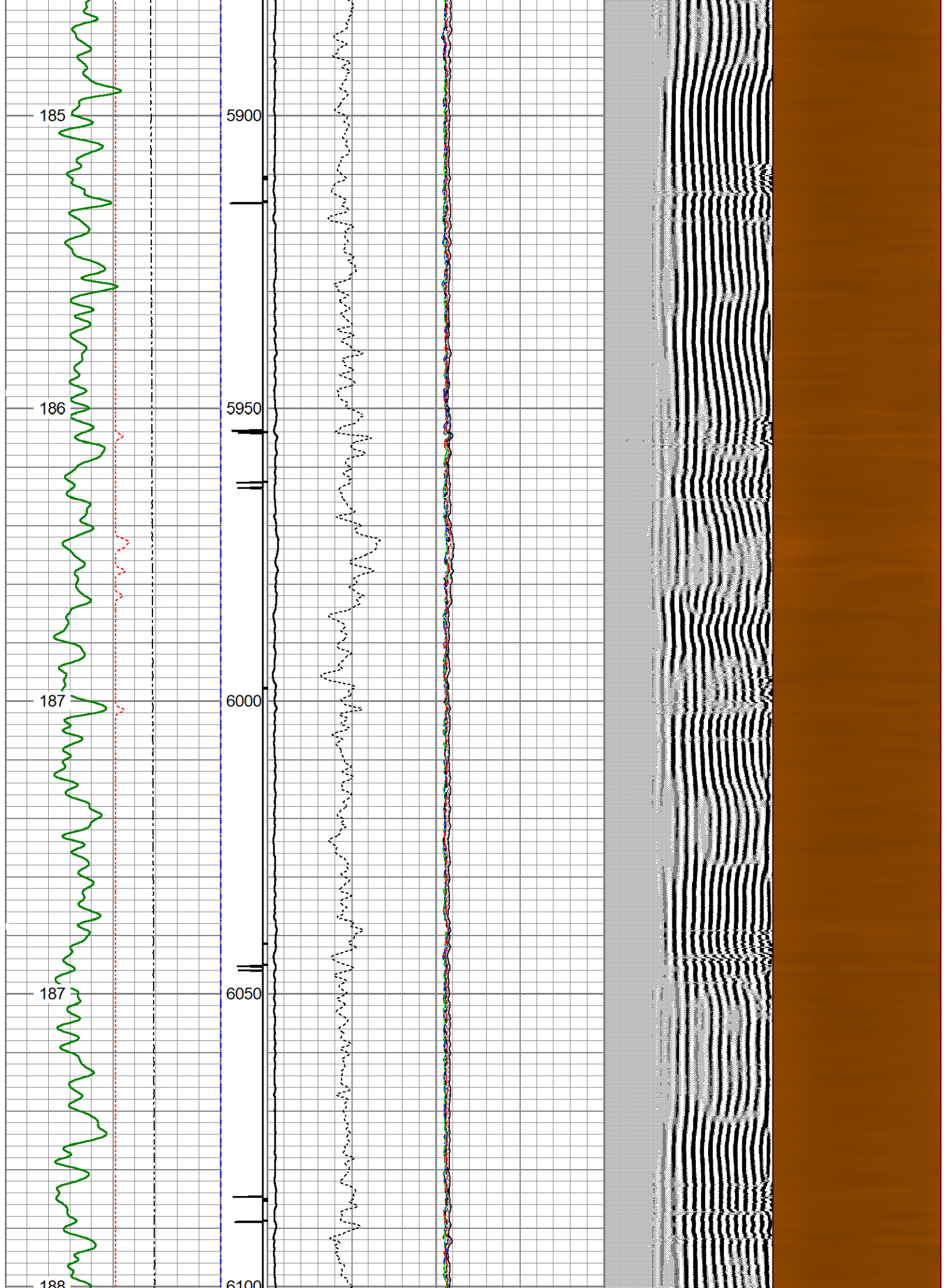


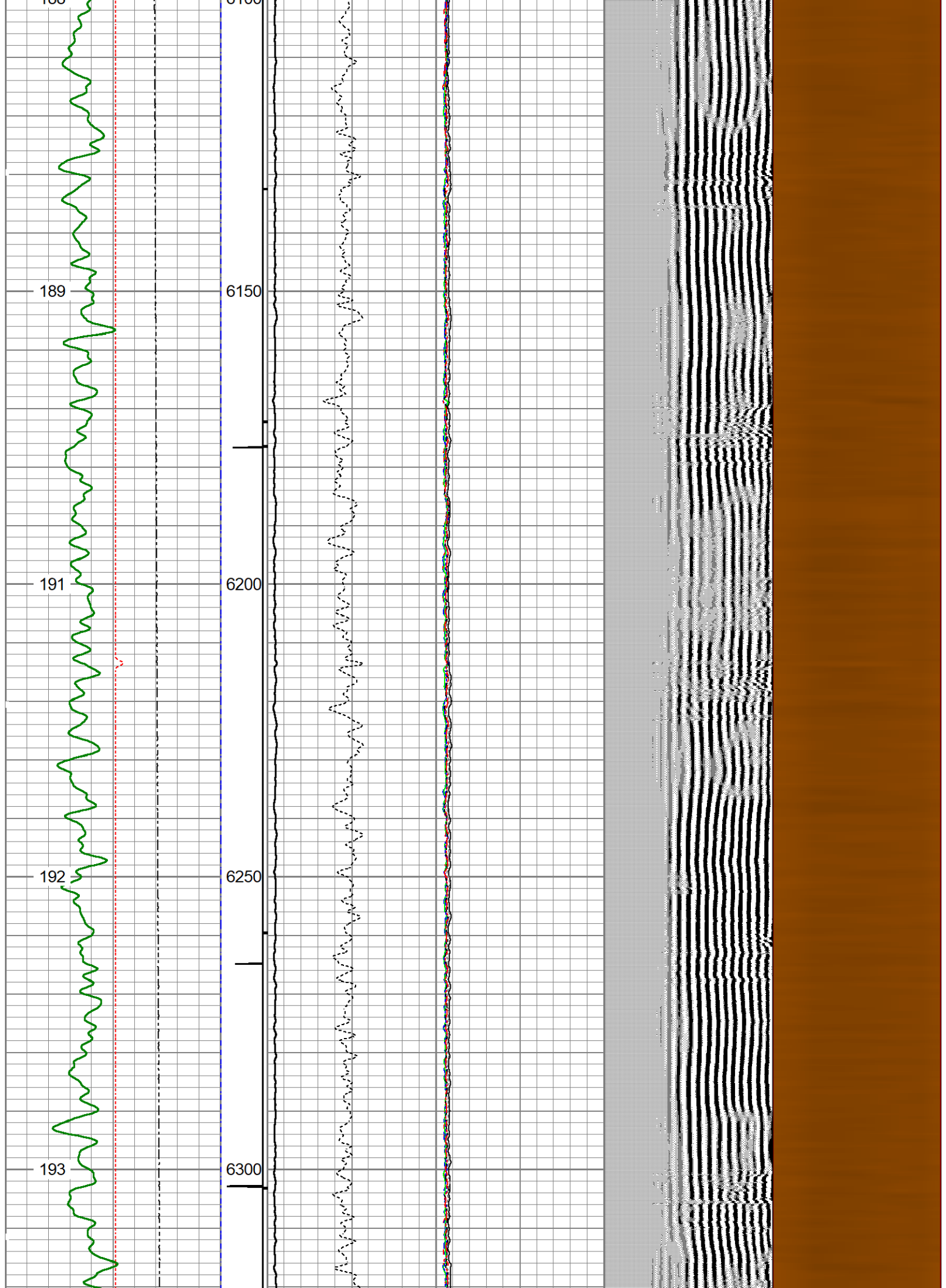


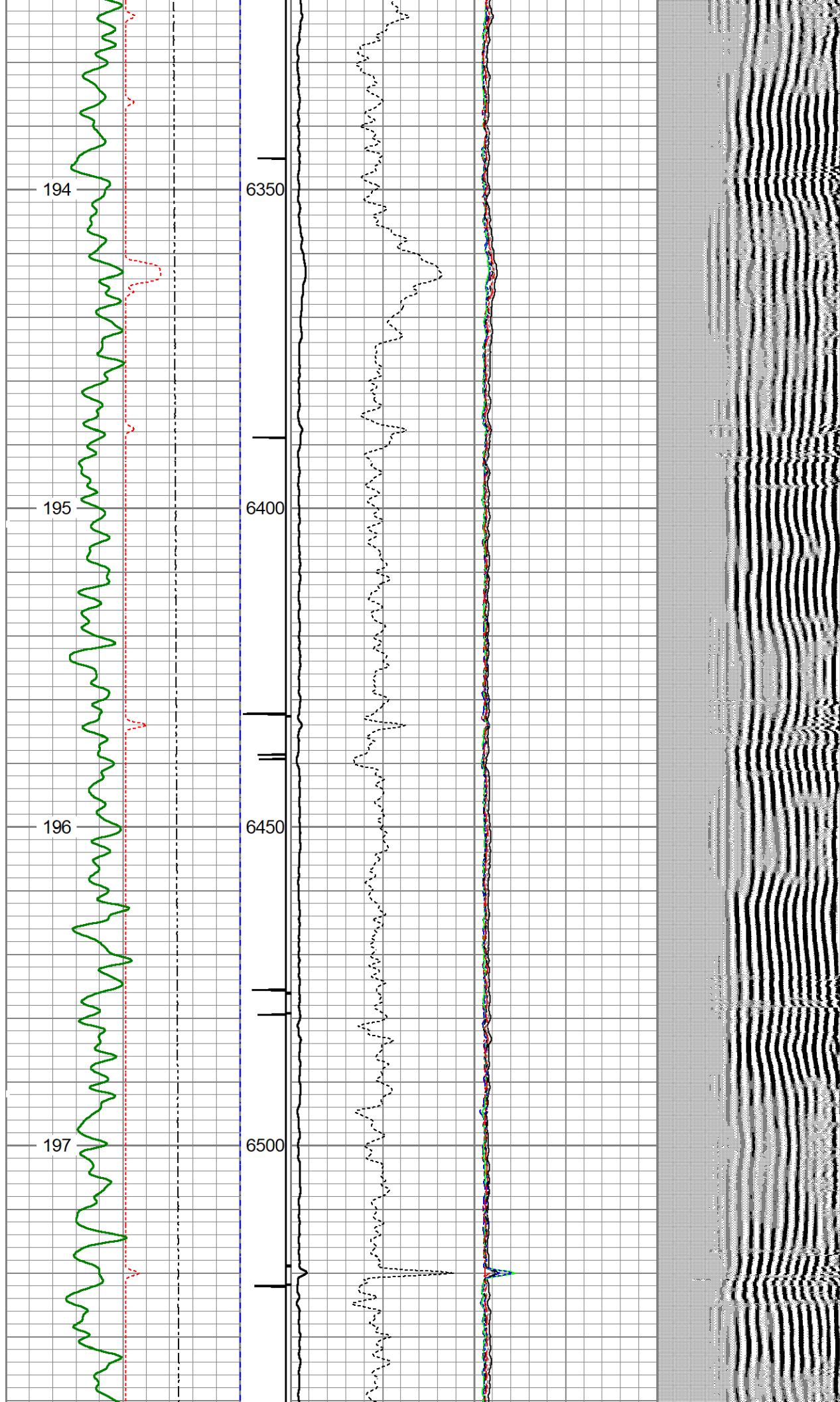




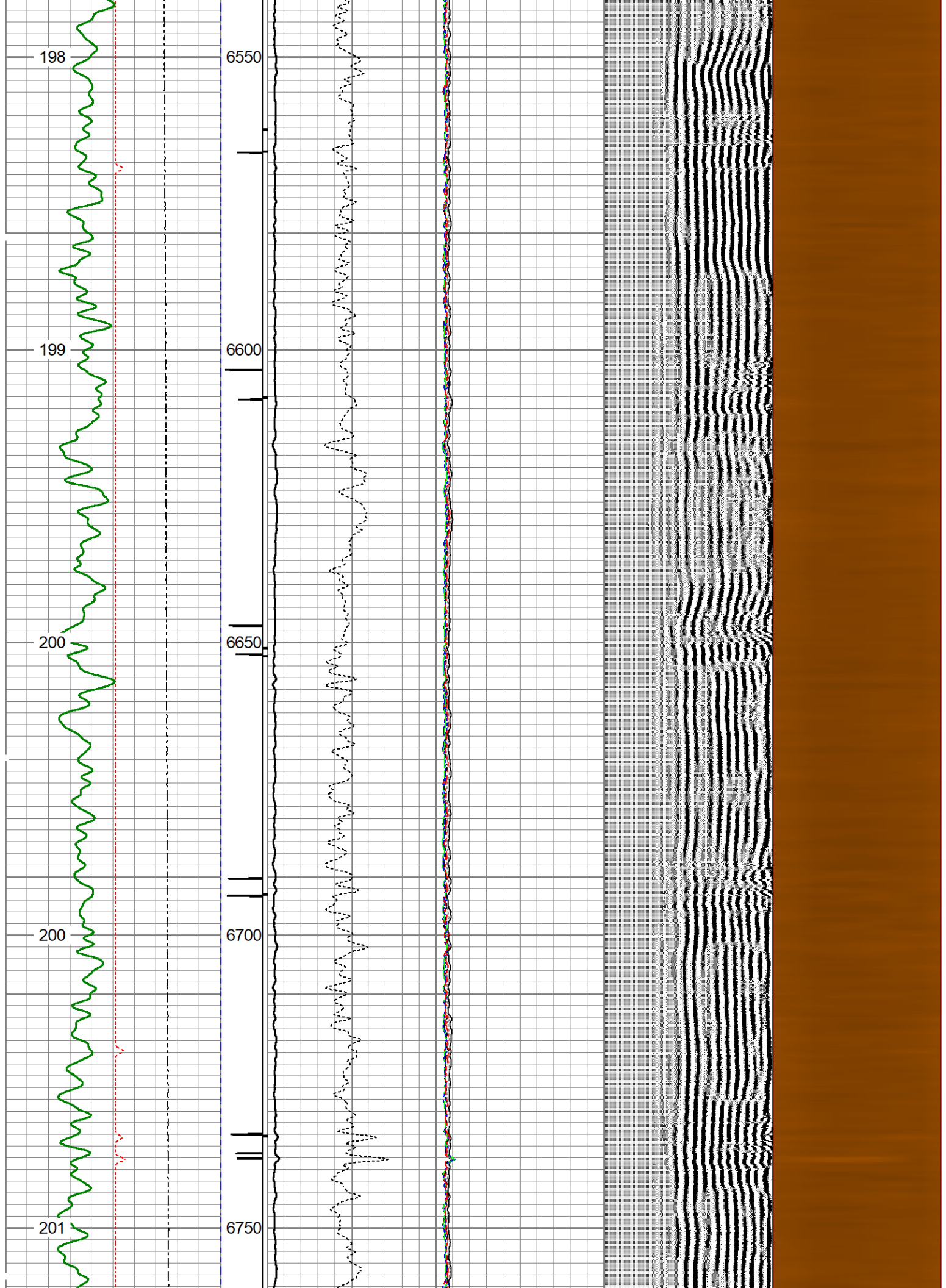




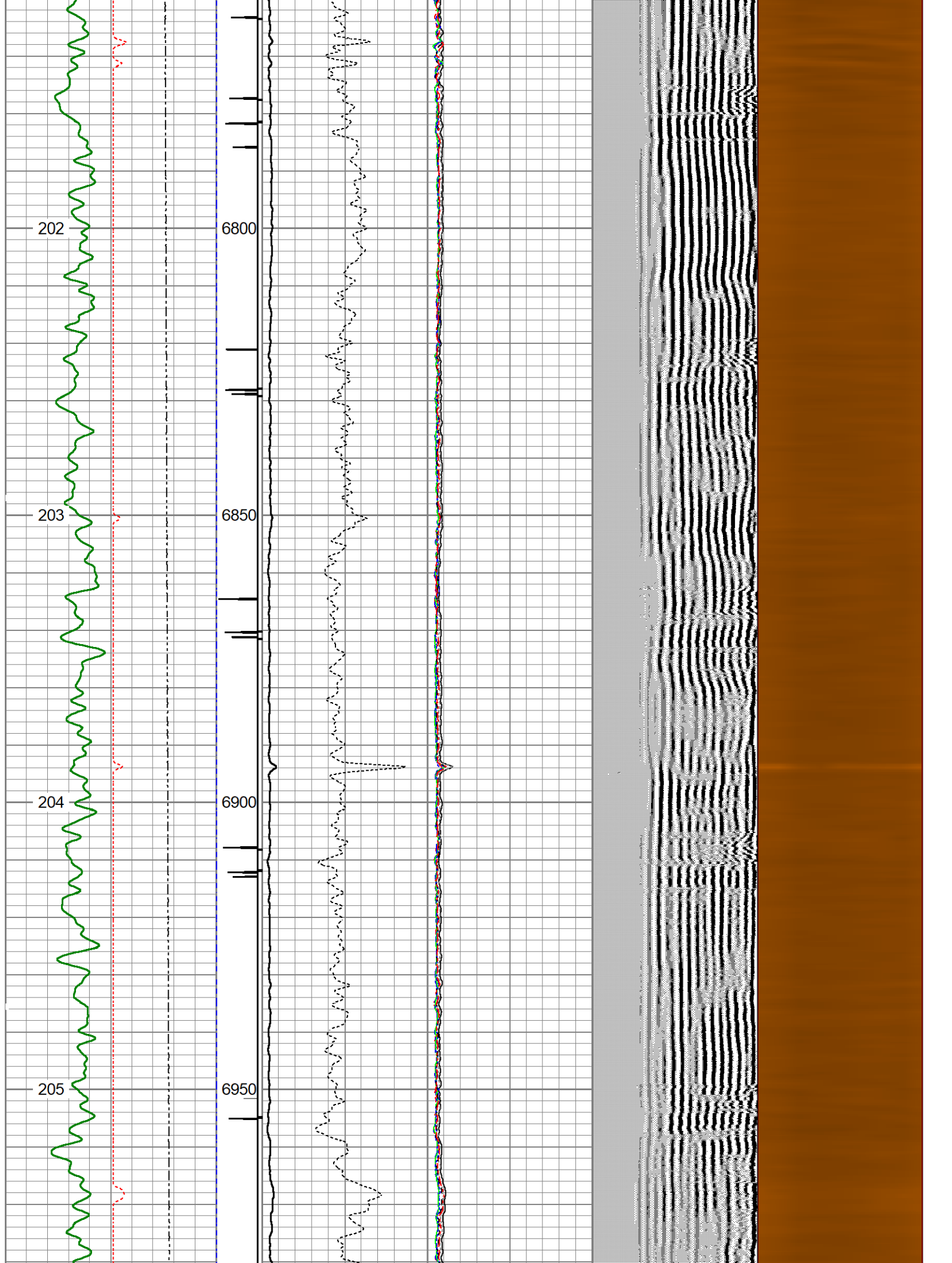


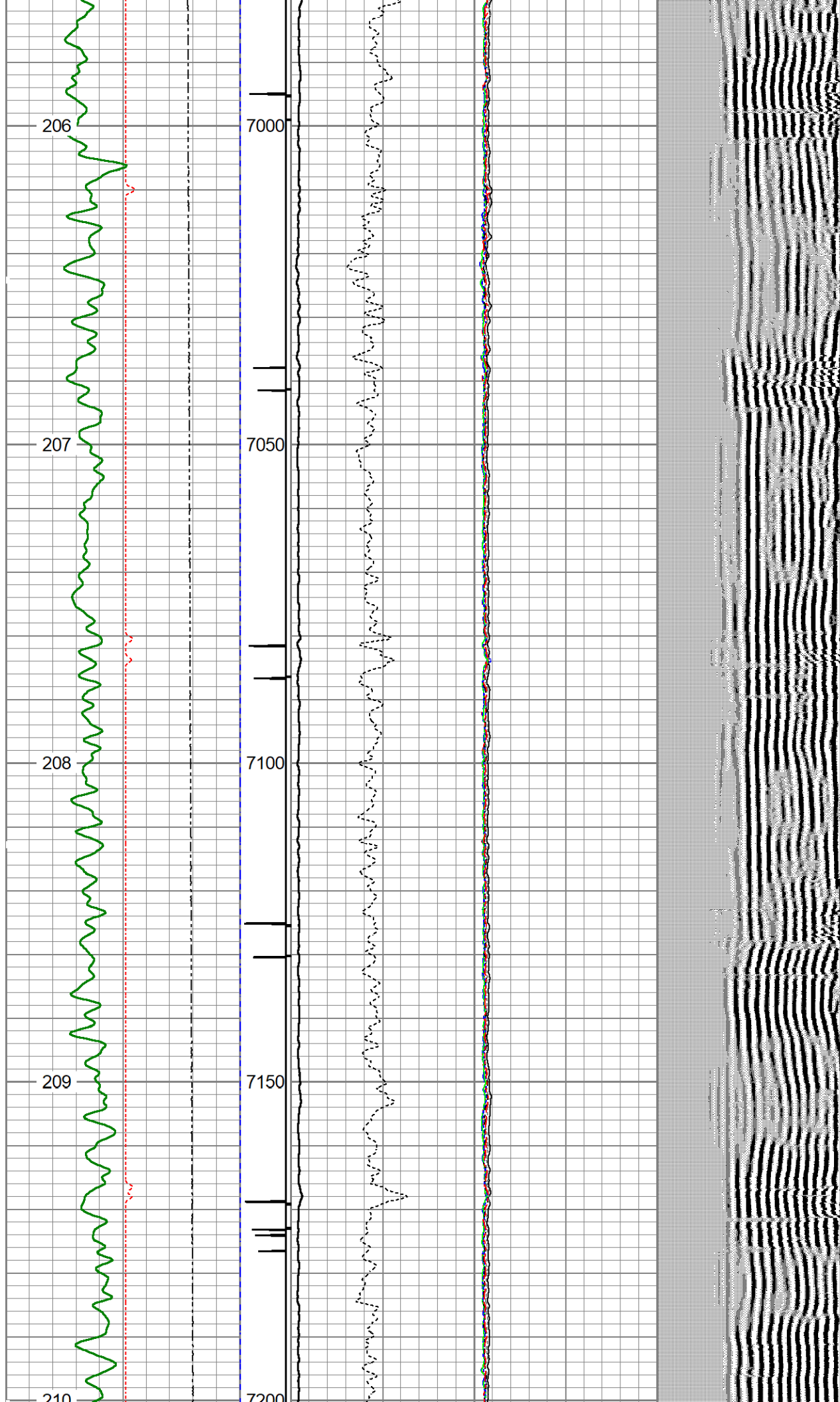


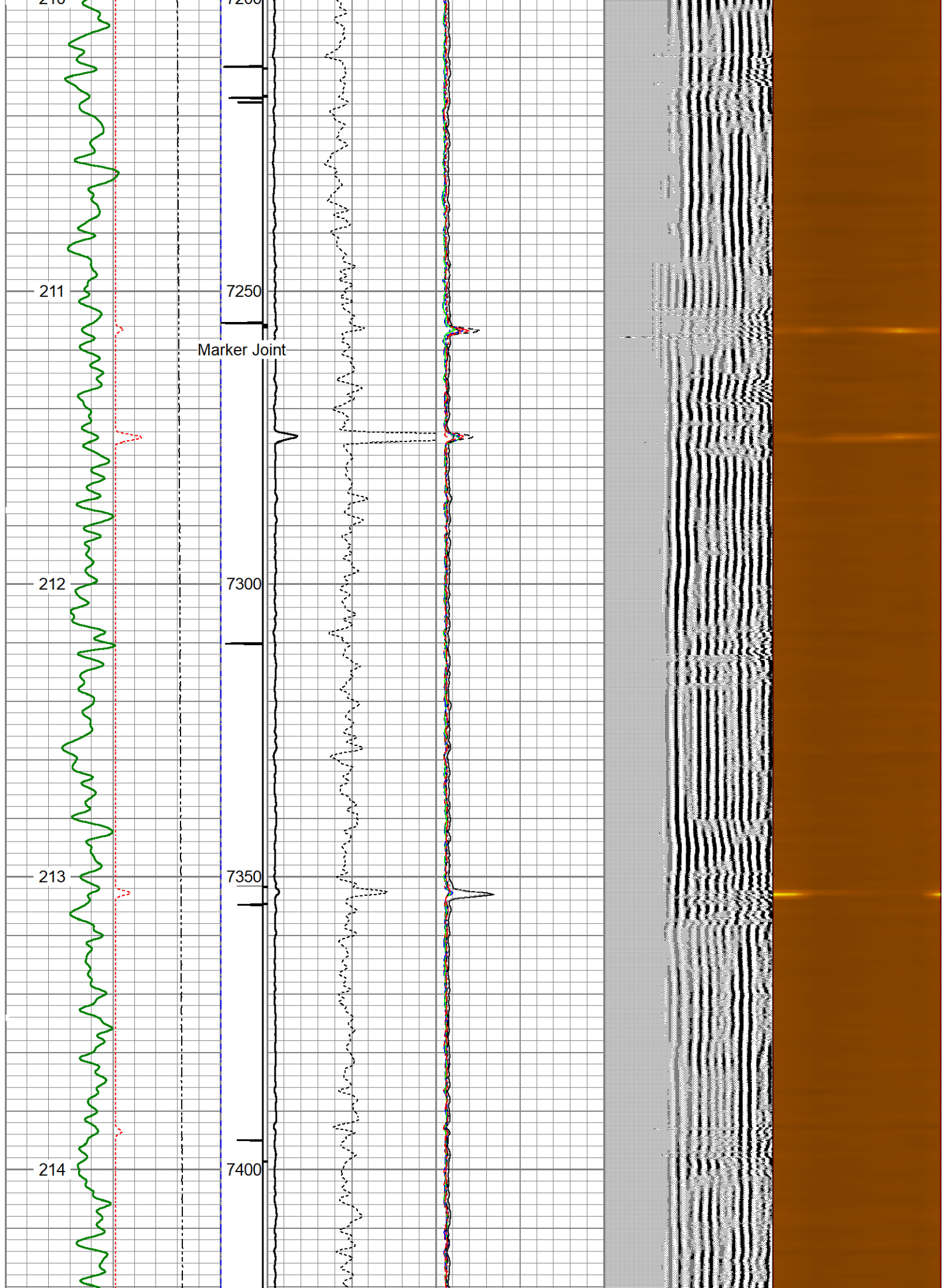




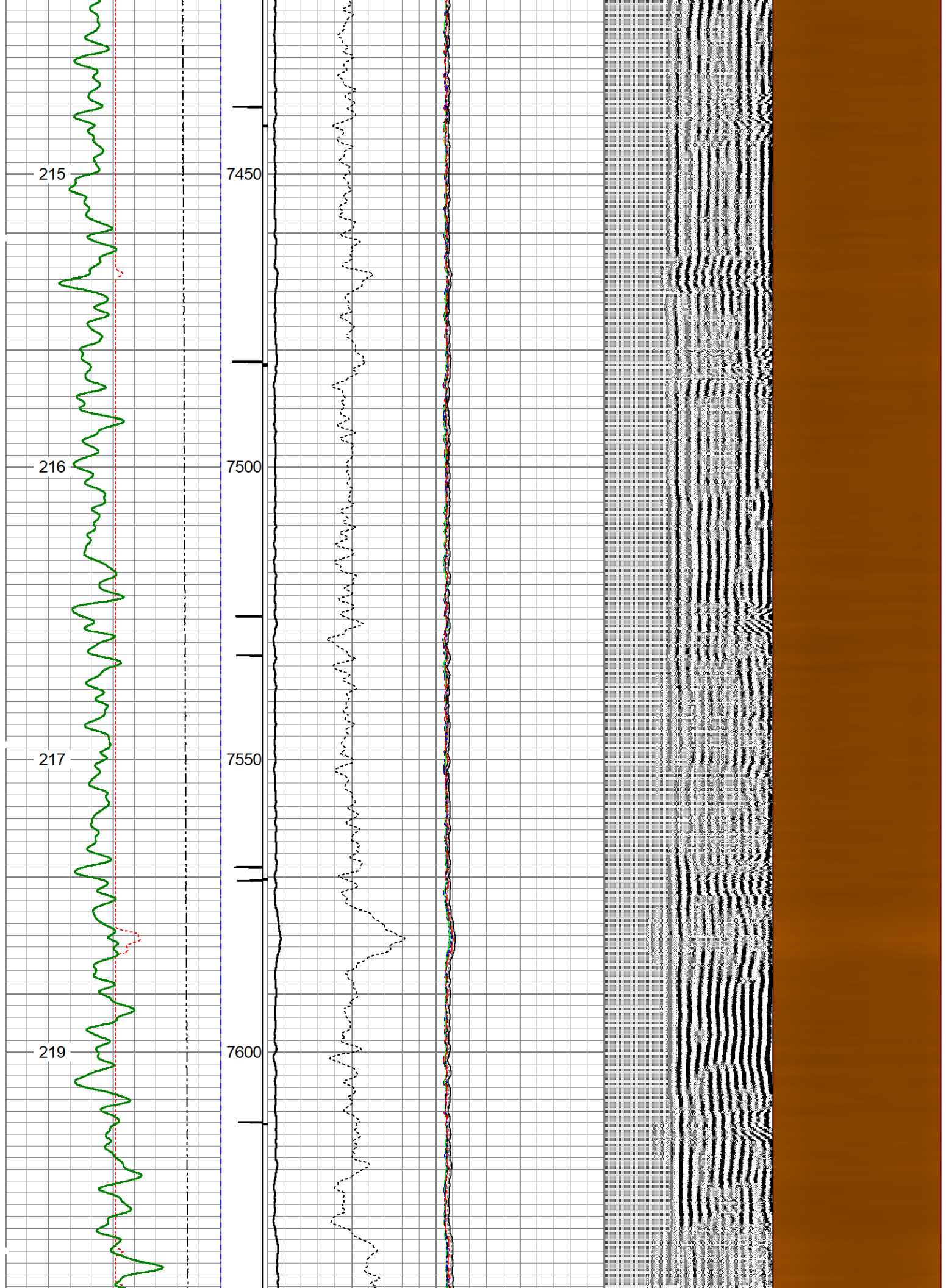




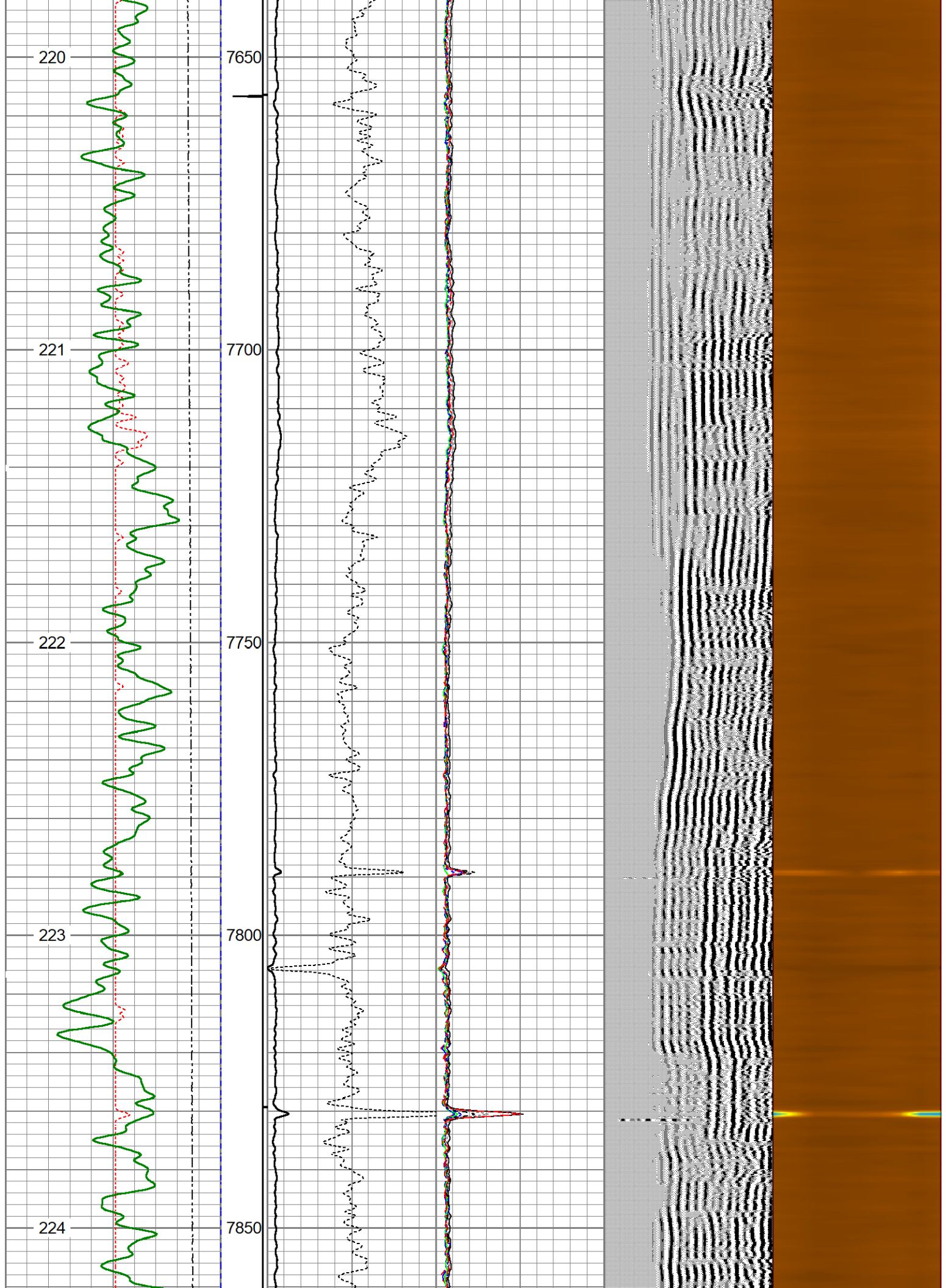


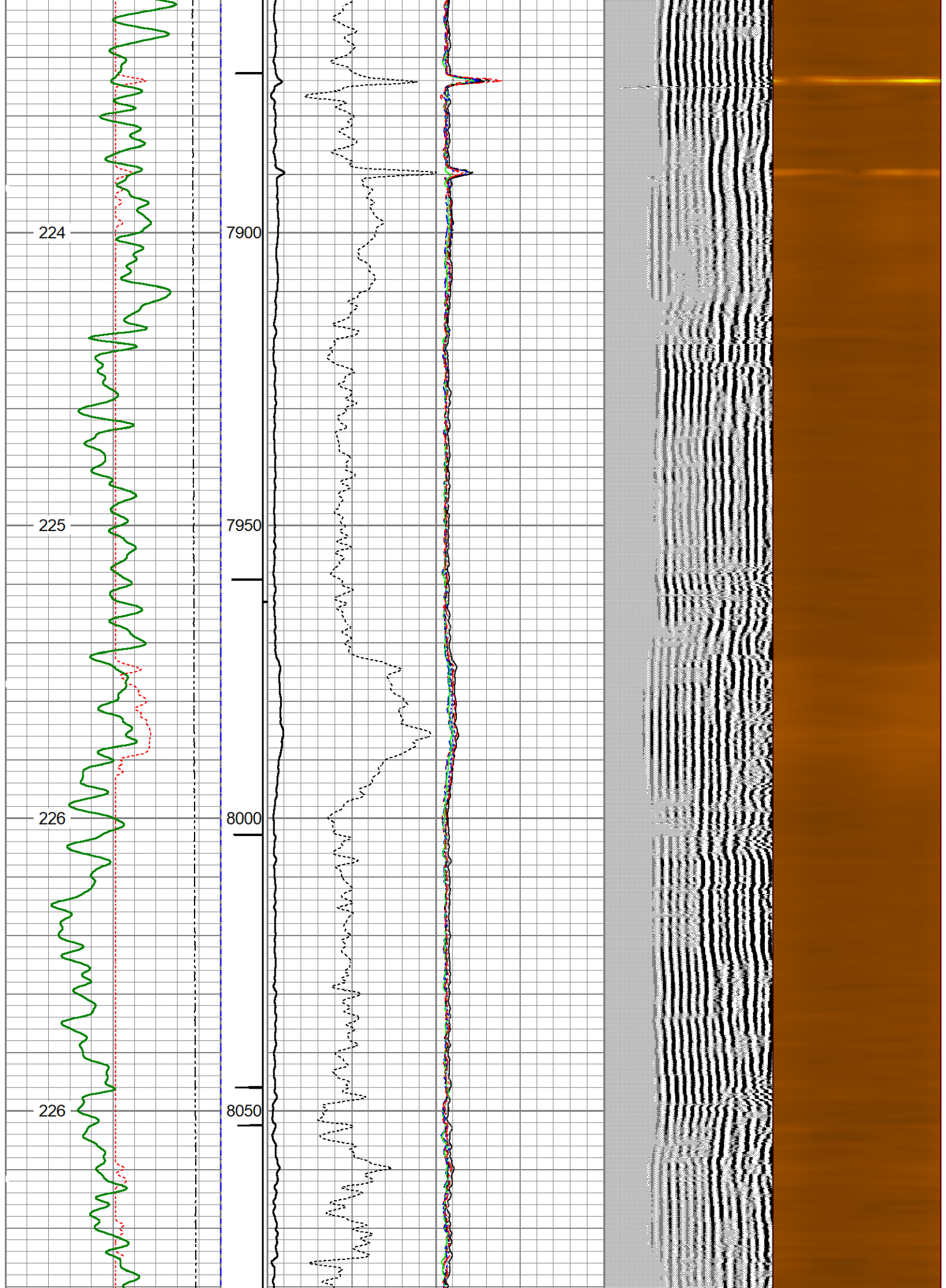




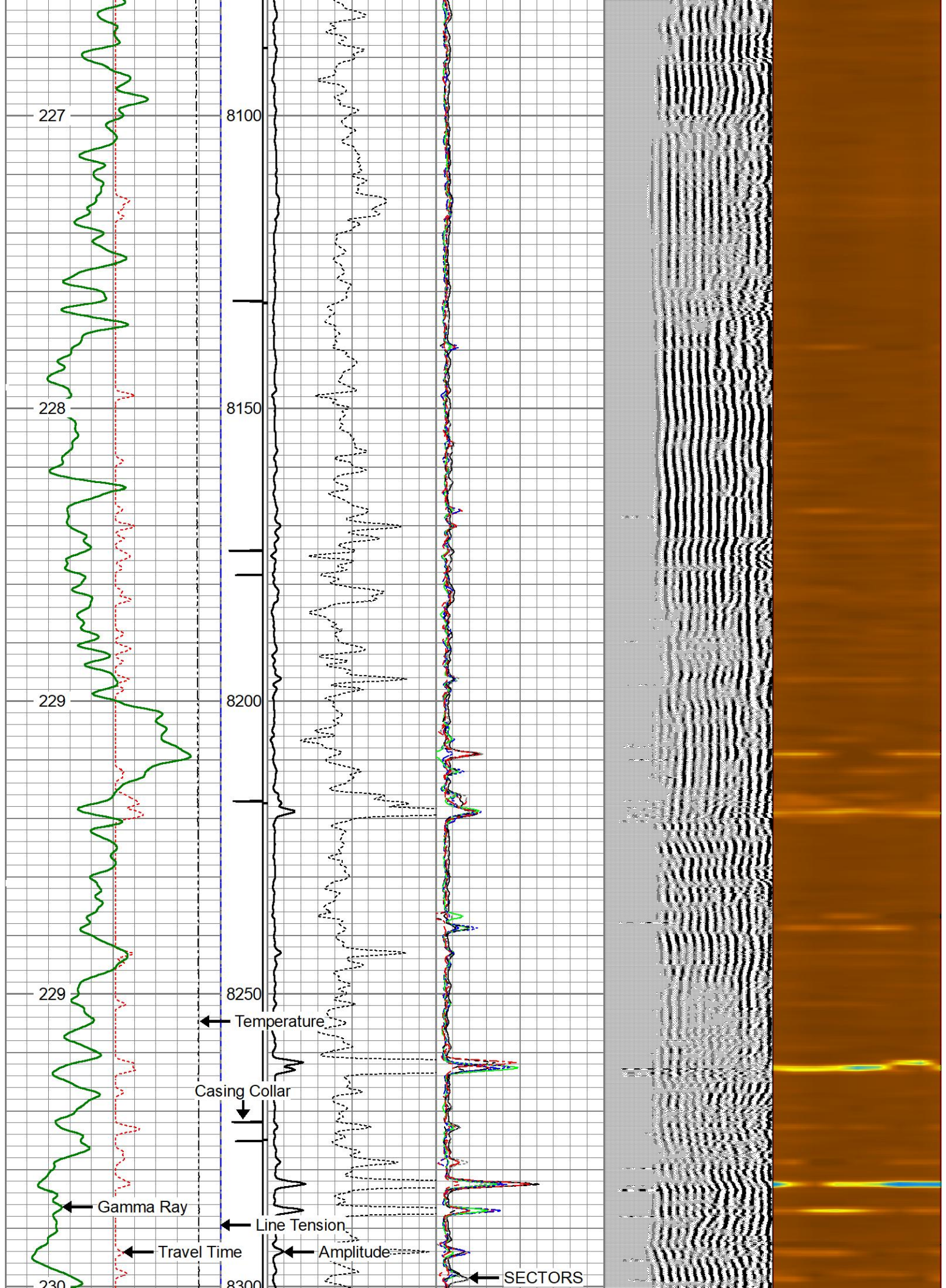




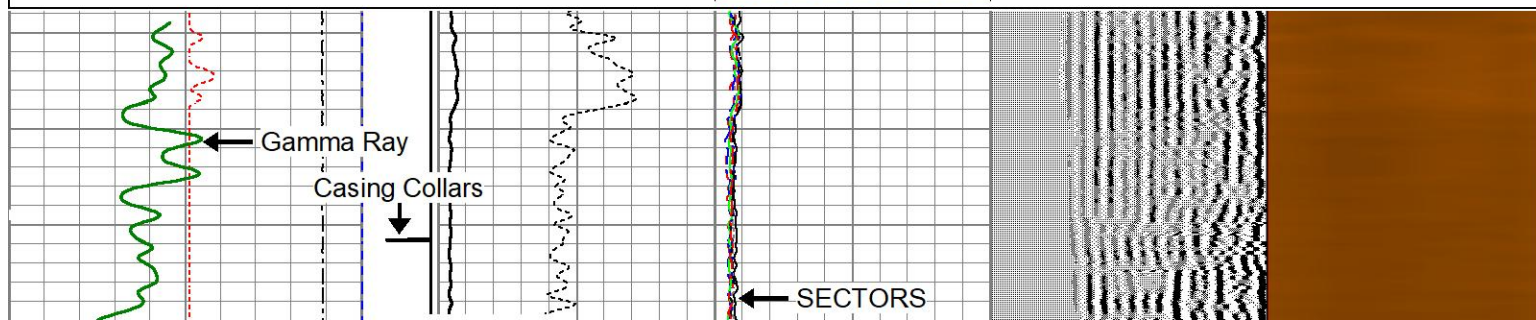
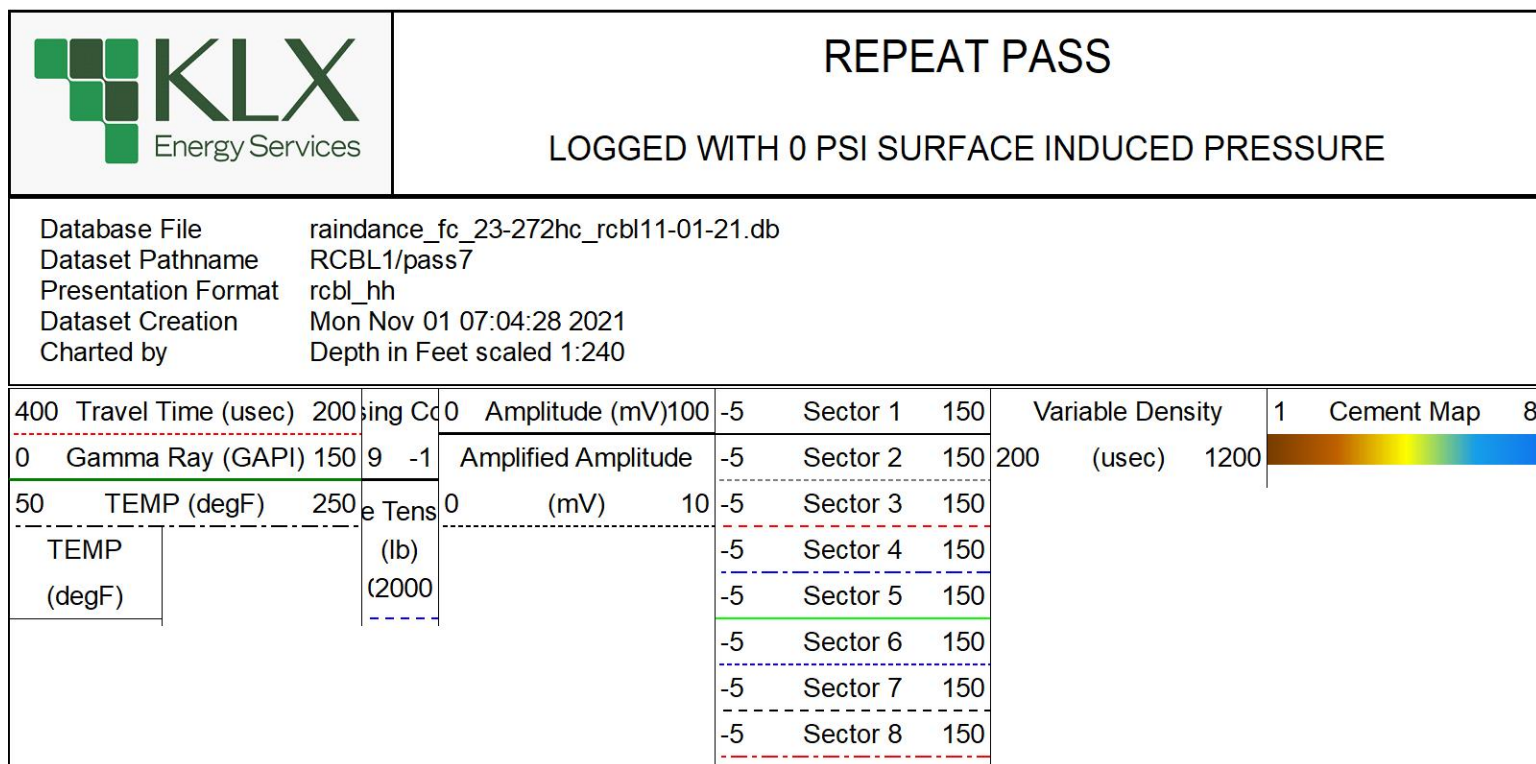
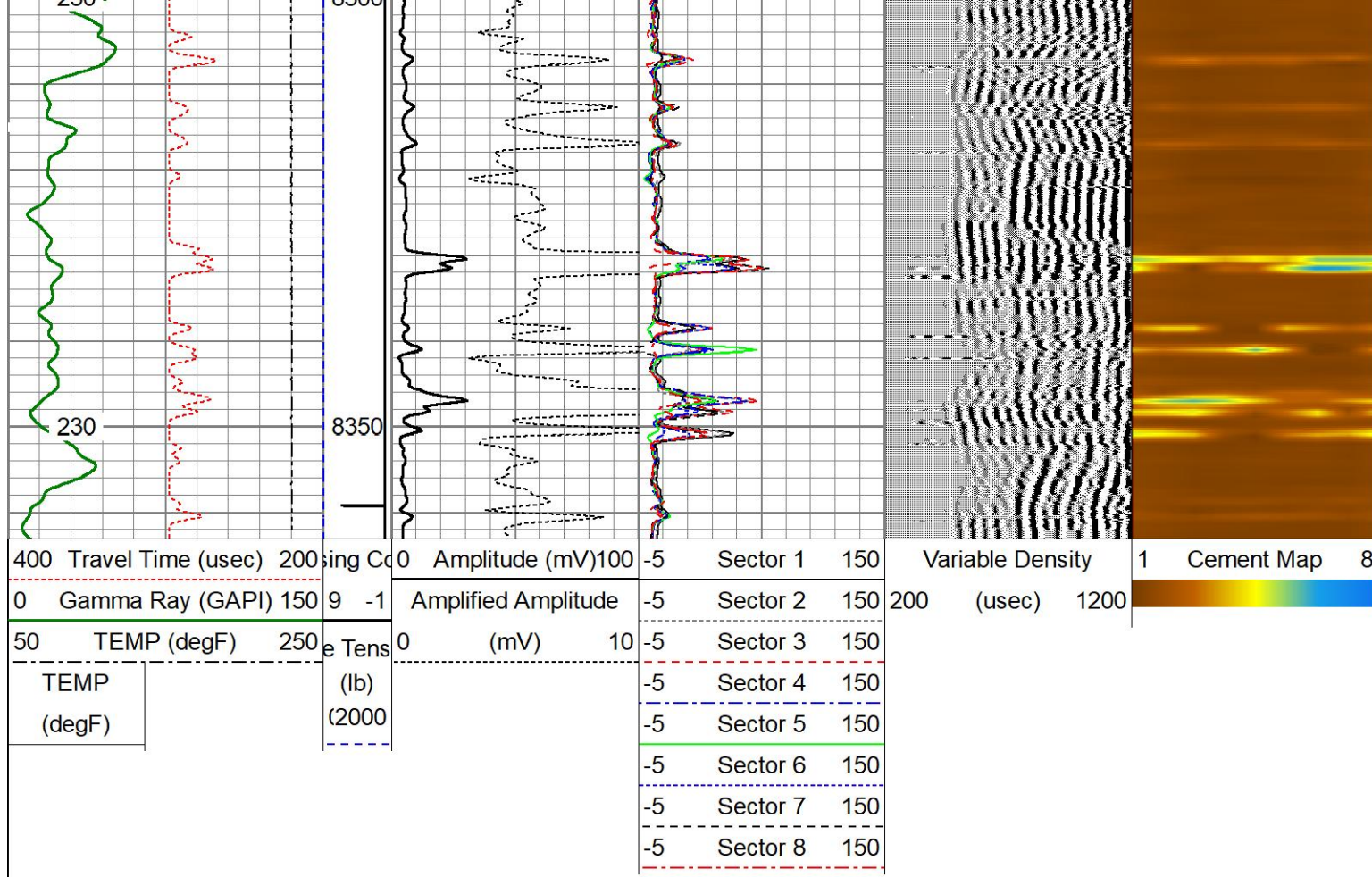




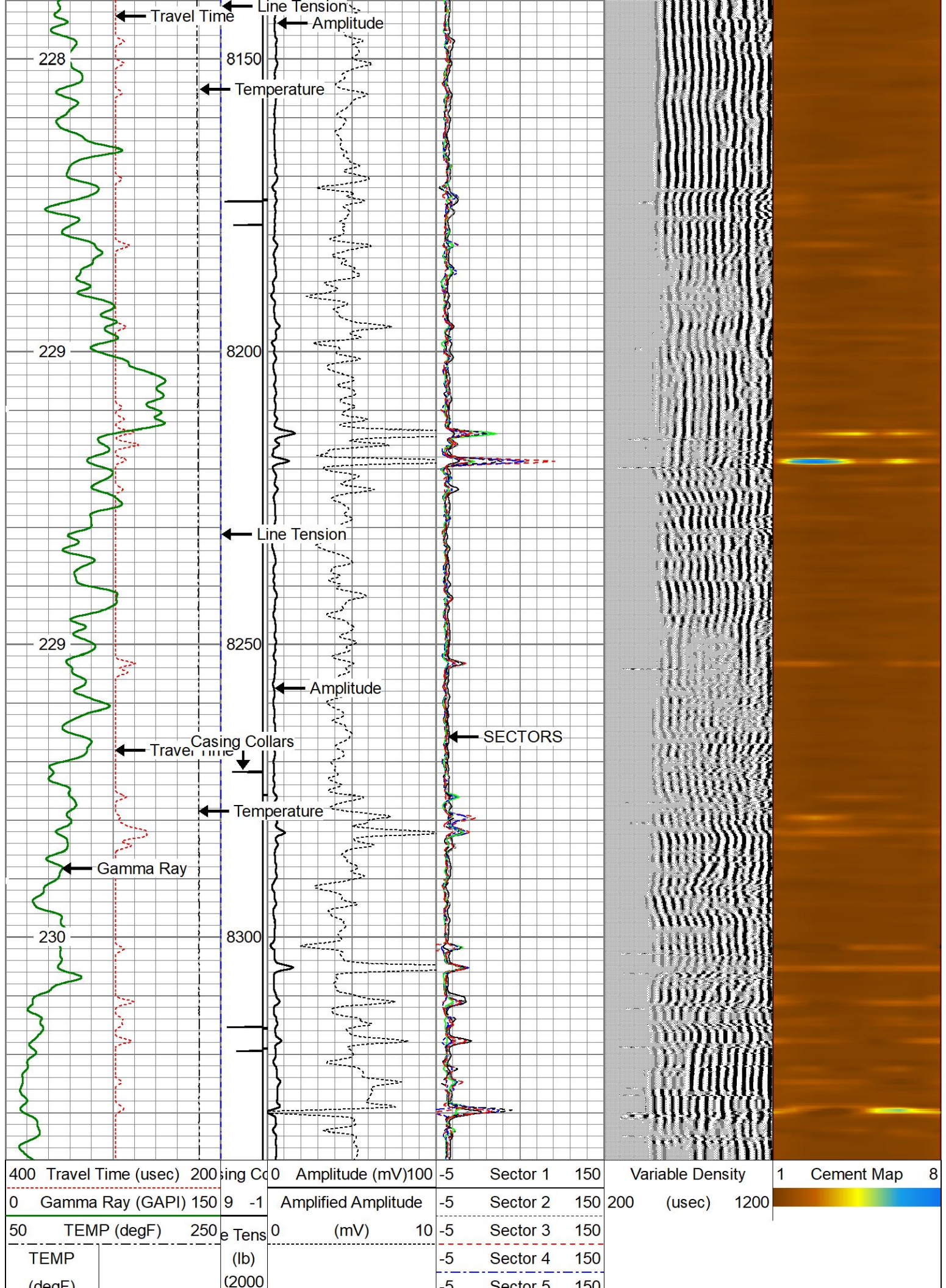












(deg)			-5	Sector 5	150
			-5	Sector 6	150
			-5	Sector 7	150
			-5	Sector 8	150

Calibration Report		
Database File	raindance_fc_23-272hc_rcbl11-01-21.db	
Dataset Pathname	RCBL1/merge1	
Dataset Creation	Mon Nov 01 08:50:17 2021	

Gamma Ray Calibration Report
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Type / Serial:	Probe275dig / 080829
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SHOP CALIBRATION		Fri Oct 29 12:45:52 2021			
	Counts/Sec.	Gain	Offset	Jig	Units
Background	87.1				cps
Calibrator	1889.0				cps
		0.5751			GAPI/cps
PRIMARY VERIFICATION		Fri Oct 29 12:49:01 2021			
Background	50.1				cps
Calibrator	1086.6				cps
Difference				1036.5	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
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Serial Number:	FW1409-41		
Tool Model:	Probe 2.75 Radii W/Temp		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	2635.108	ft	

Master Calibration, performed Mon Nov 1 06:37:49 2021:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.512	1.000	71.921	138.673	0.871
CAL	0.001	0.613				
5'	0.001	0.444	1.000	71.921	160.400	0.765
SUM						
S1	-0.008	0.493	0.000	100.000	199.474	1.575
S2	-0.002	0.479	0.000	100.000	207.977	0.322
S3	0.010	0.492	0.000	100.000	207.592	-2.065
S4	0.010	0.516	0.000	100.000	197.398	-1.945
S5	0.010	0.524	0.000	100.000	194.312	-1.909
S6	0.009	0.518	0.000	100.000	196.432	-1.762
S7	0.009	0.517	0.000	100.000	196.857	-1.701
S8	0.008	0.506	0.000	100.000	200.991	-1.698




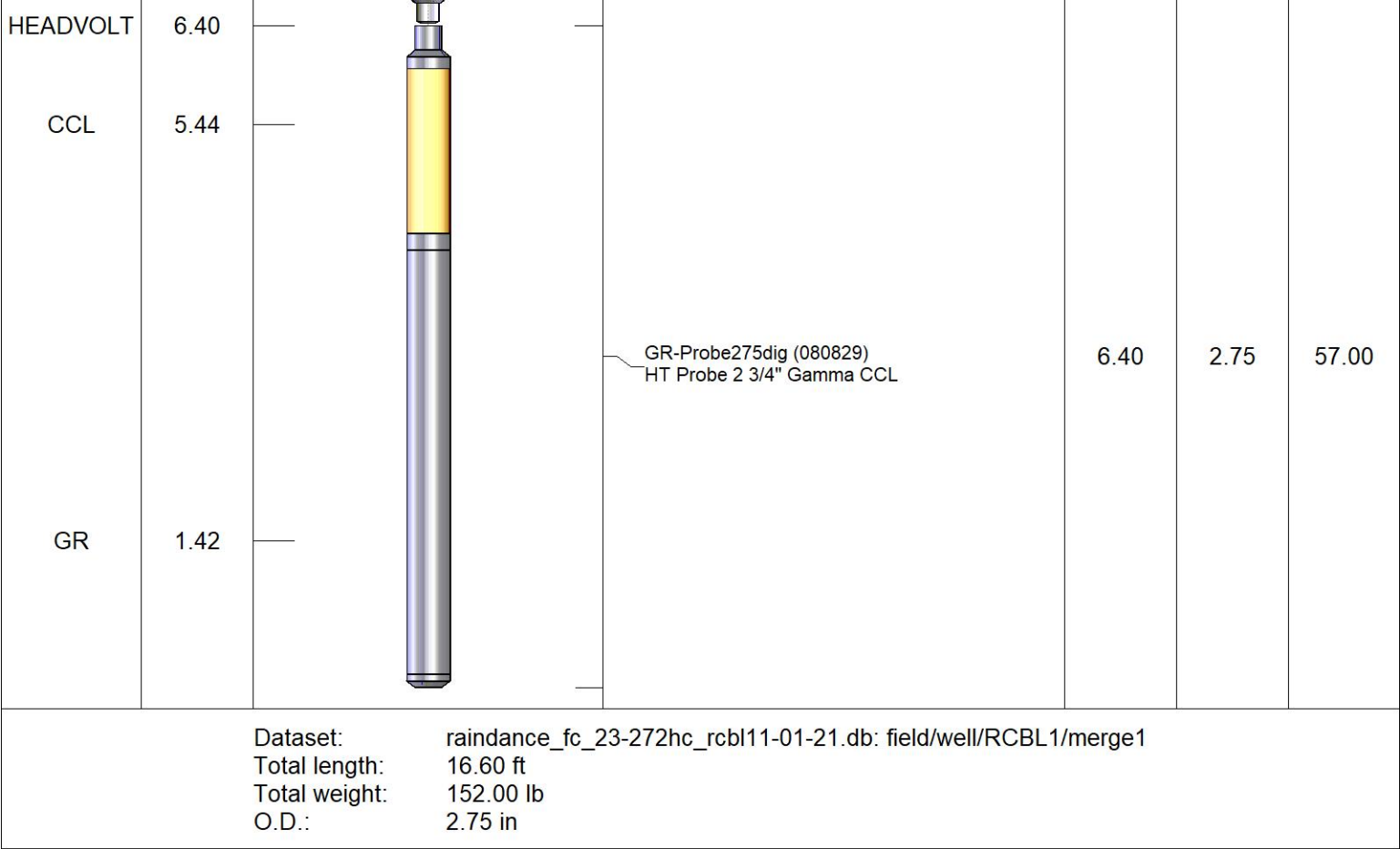
Internal Reference Calibration, performed (Not Performed):


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.613	1.000	0.000

Air Zero Calibration, performed Mon Aug 31 16:50:37 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)
HeadVolt	15.73		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	12.88					
WVFS8	10.65		RBT-Probe 2.75 Radii W/Temp (FW1409-41) Probe 2.75" Radial with Integral Temperature Sub	9.21	2.75	90.00
WVFS7	10.65					
WVFS6	10.65					
WVFS5	10.65					
WVFS4	10.65					
WVFS3	10.65					
WVFS2	10.65					
WVFS1	10.65					
WVFCAL	10.65					
WVF3FT	10.65					
WVF5FT	9.65					





Company

Well

Field

County

State

GREAT WESTERN OIL & GAS

RAINDANCE FC 23-272HC

WATTENBERG

WELD

COLORADO

Country

USA