



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

Company	GREAT WESTERN OIL & GAS		
Well	RAINDANCE FC 23-312HN		
Field	WATTENBERG		
County	WELD	State	COLORADO
Location:	AP1 # : 05-123-51586		Other Services
	40.462956 / -104.927329		N/A
Permanent Datum	GL	Elevation	4788'
Log Measured From	KB		
Drilling Measured From	KB		
SEC 30 TWP 6N RGE 67W			

Date	31-OCT-2021
Run Number	ONE
Depth Driller	17425'
Depth Logger	7714'
Bottom Logged Interval	7713'
Top Log Interval	SURFACE
Open Hole Size	-
Type Fluid	WATER
Density / Viscosity	-
Max. Recorded Temp.	225°F
Estimated Cement Top	-
Time Well Ready	10:30
Time Logger on Bottom	11:12
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		2066'	
Prot. String							
Production String	5-1/2"		20#	SURFACE		17205'	
Liner							

<<< Fold Here >>>

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 6653' - 6664'

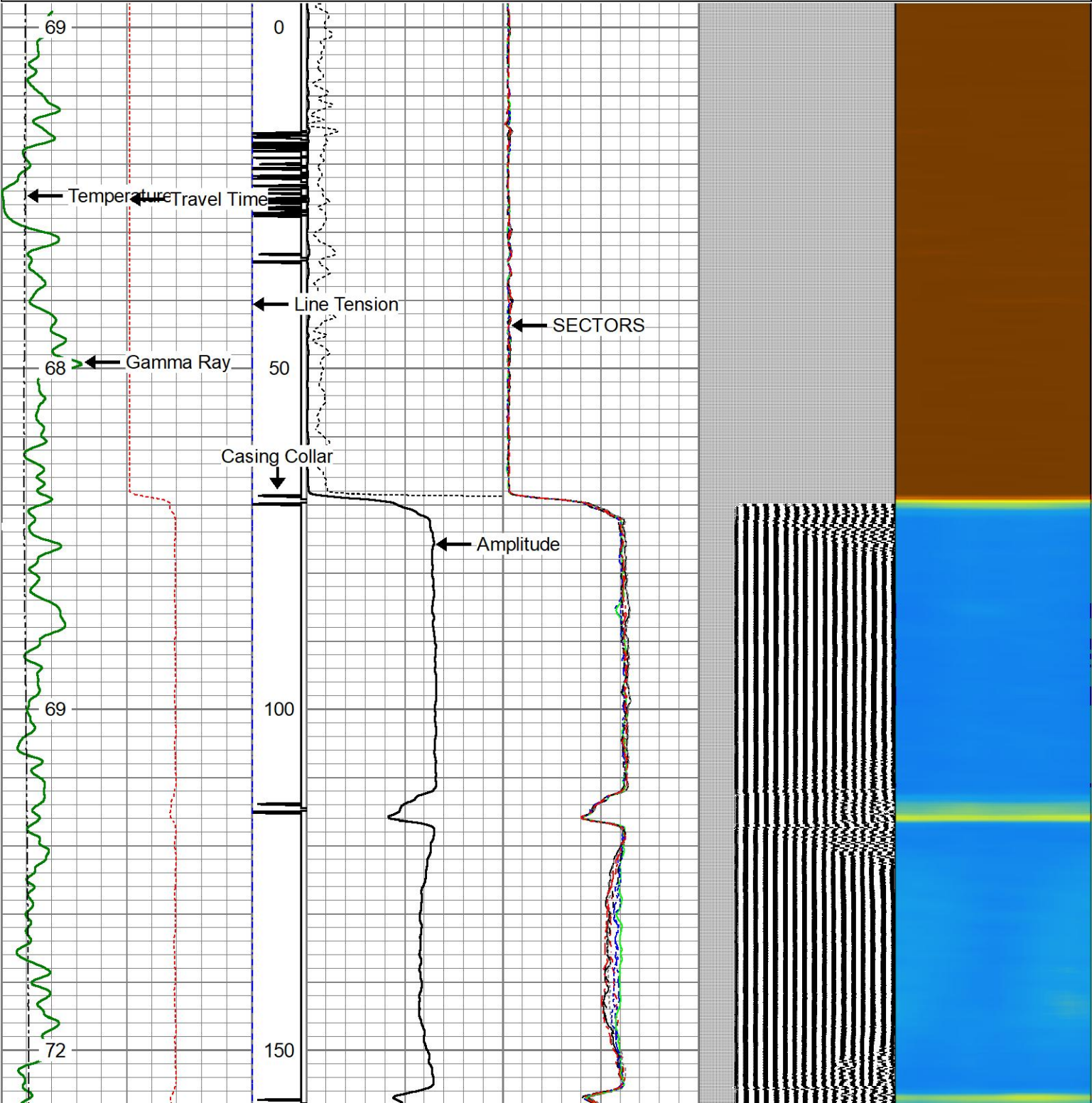
THANK YOU FOR USING KLX ENERGY SERVICES

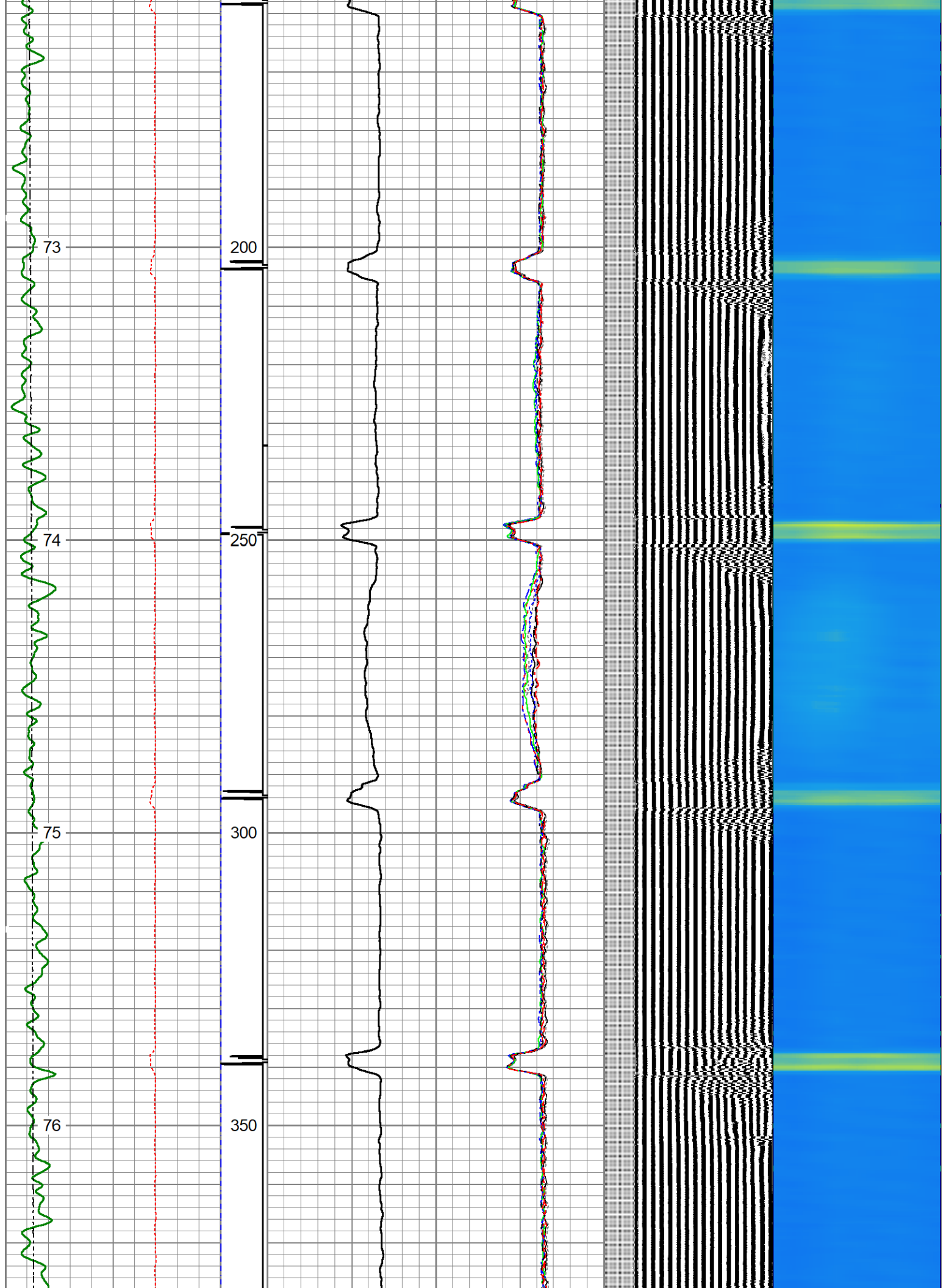


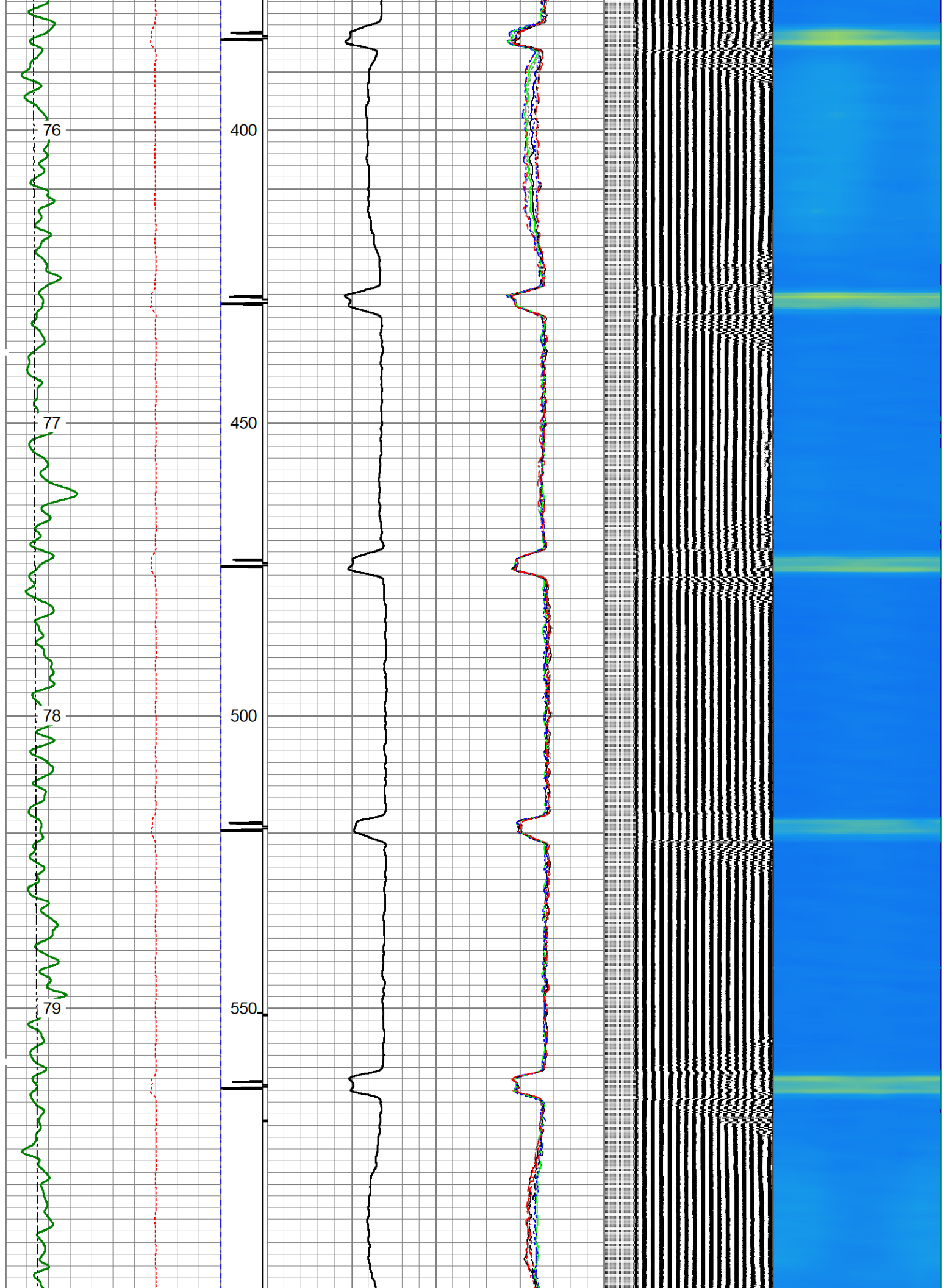
MAIN PASS

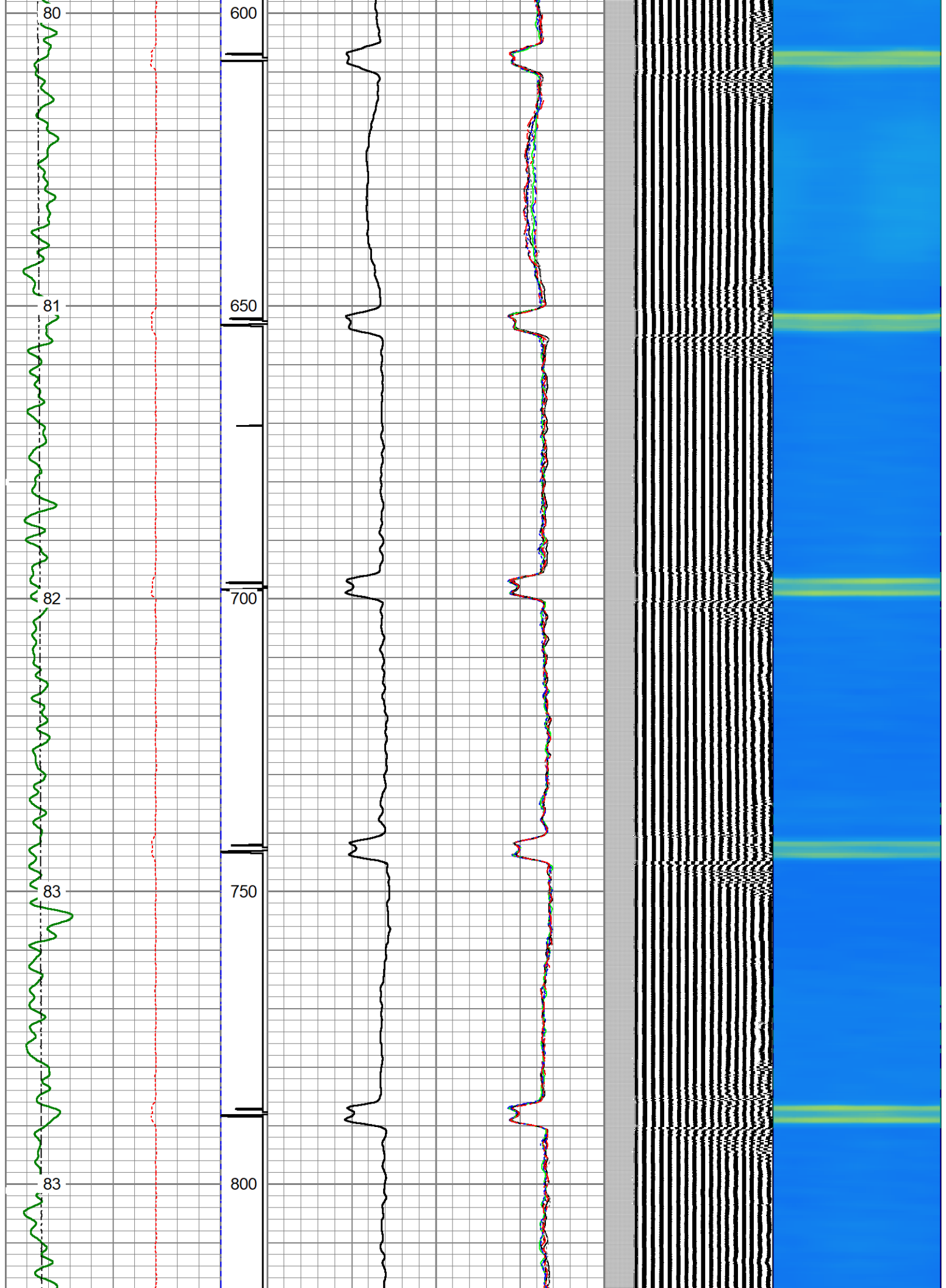
LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

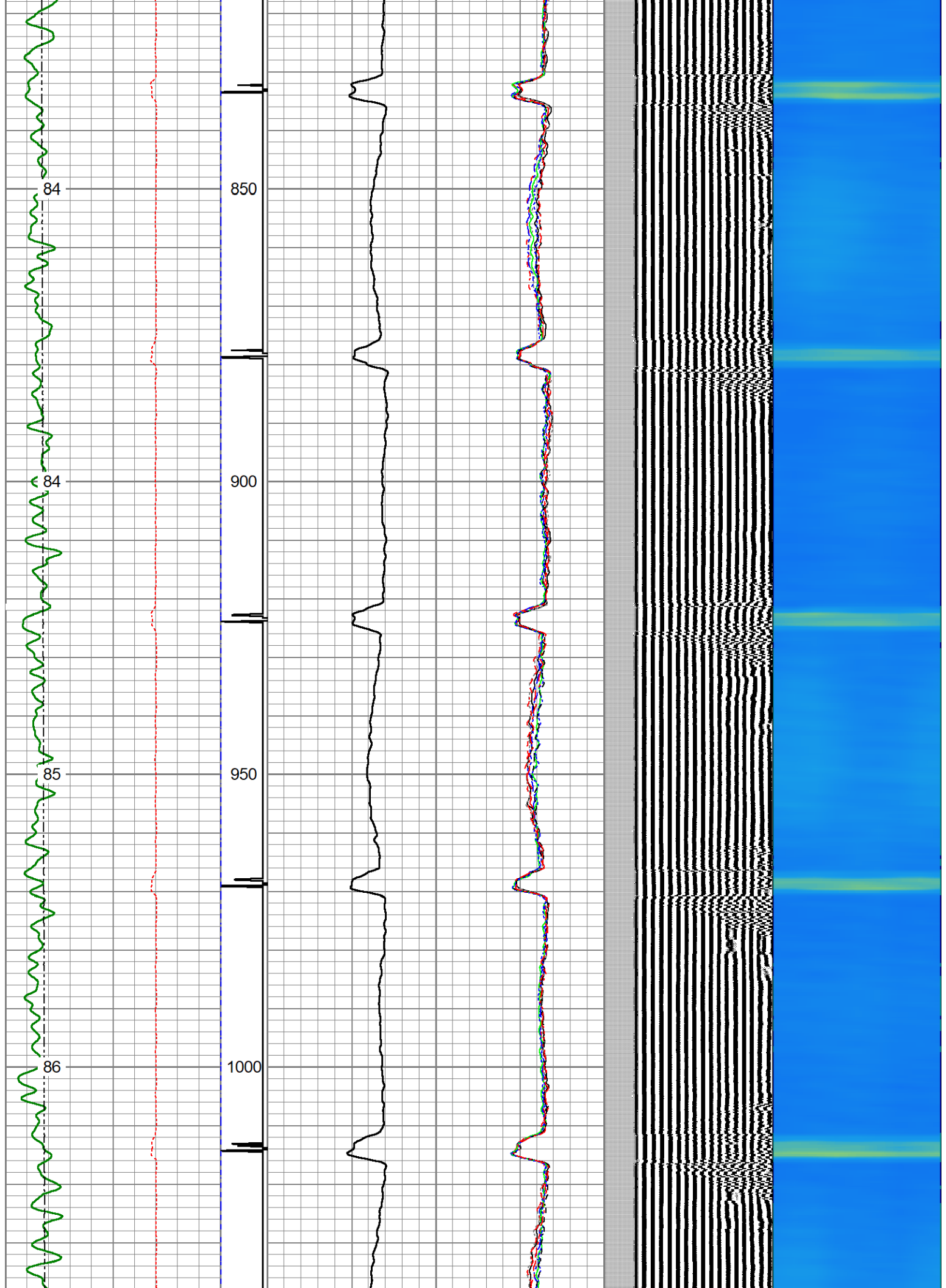
Database File	raindance_fc_23-312hn_rcbl10-31-21.db									
Dataset Pathname	RCBL1/pass5.2									
Presentation Format	rcbl_hh									
Dataset Creation	Sun Oct 31 12:38:43 2021									
Charted by	Depth in Feet scaled 1:240									
400	Travel Time (usec)	200	ing Co	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density
0	Gamma Ray (GAPI)	150	9 -1		Amplified Amplitude		-5	Sector 2	150	200 (usec) 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	

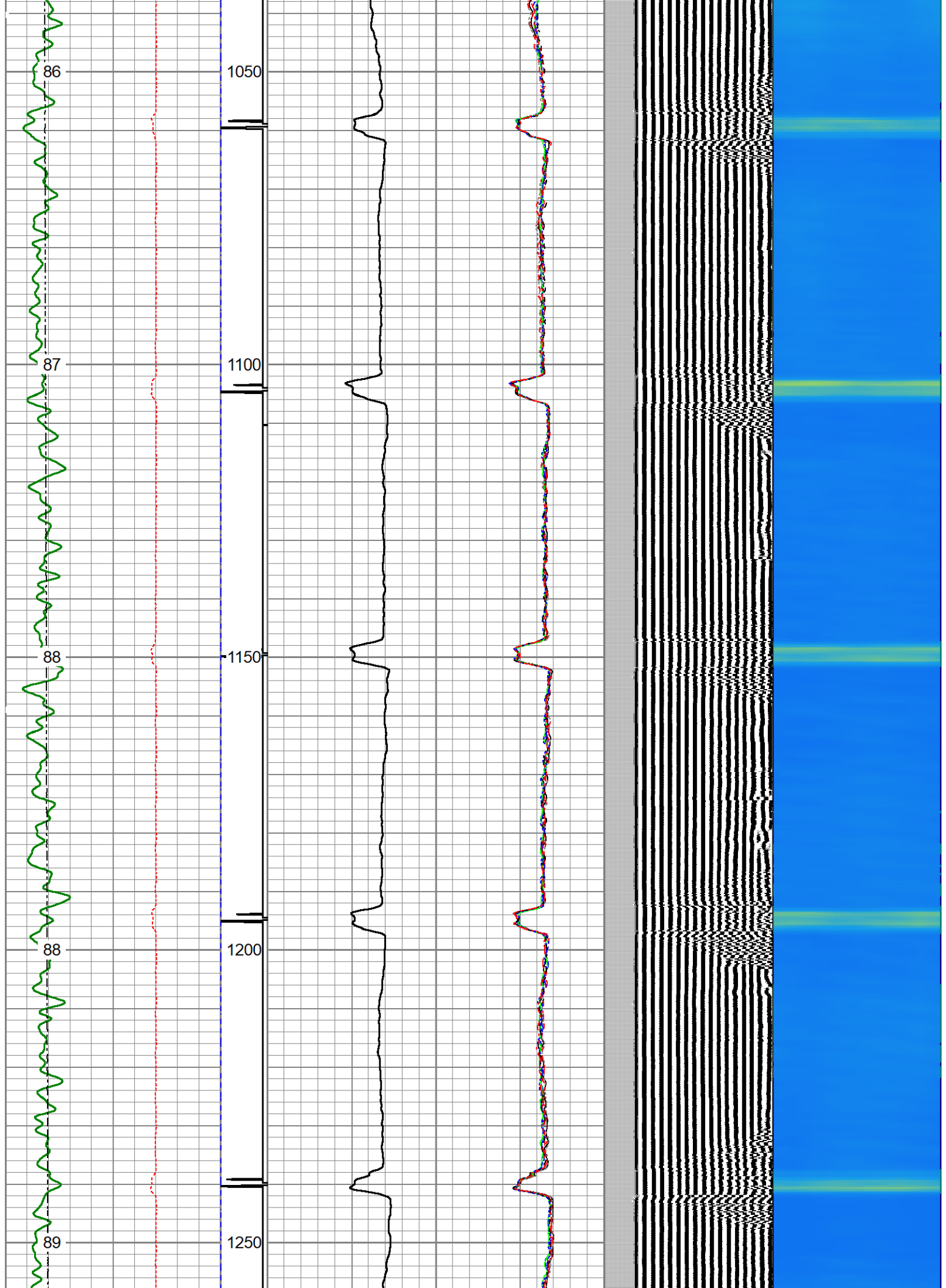


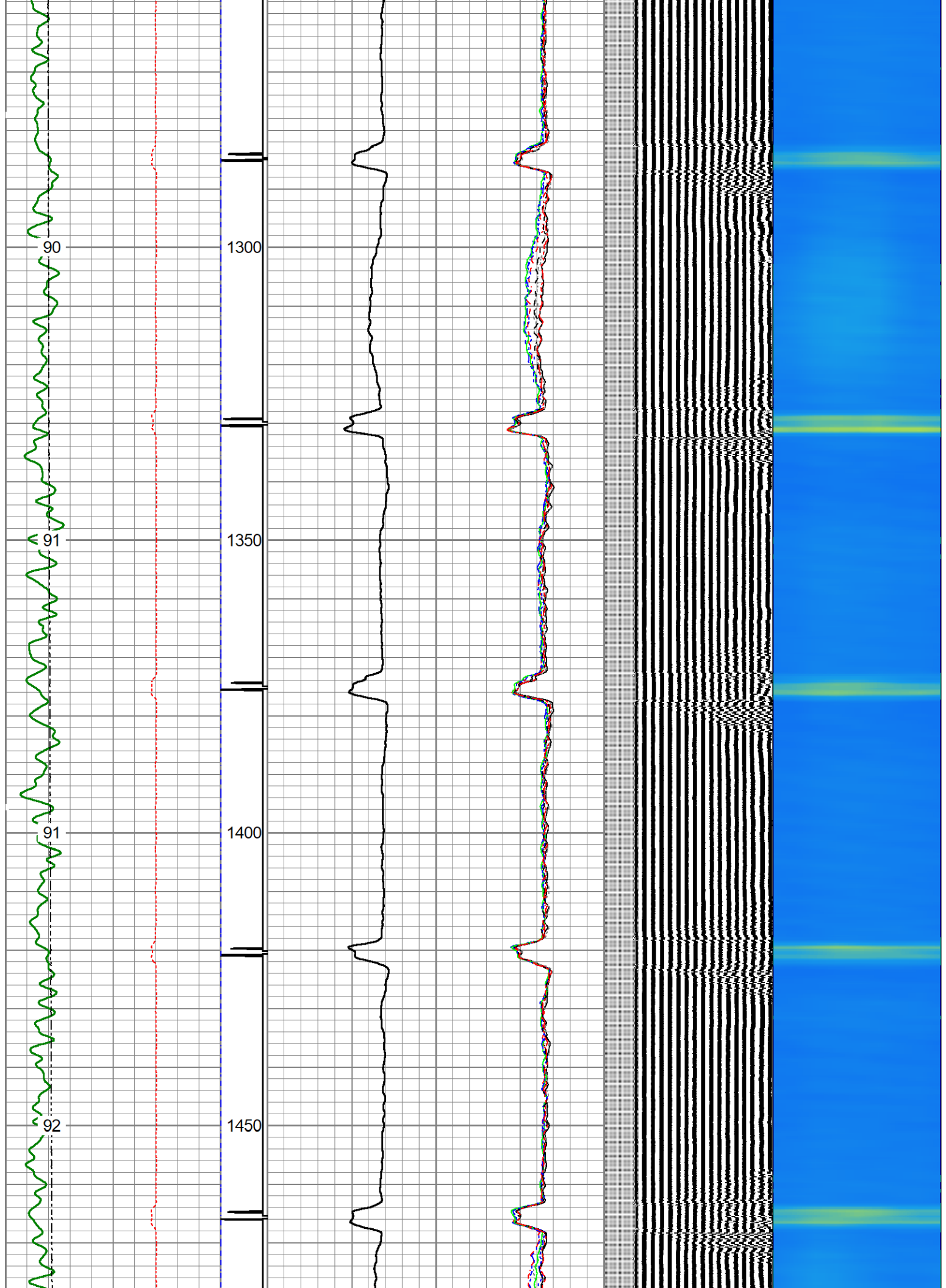




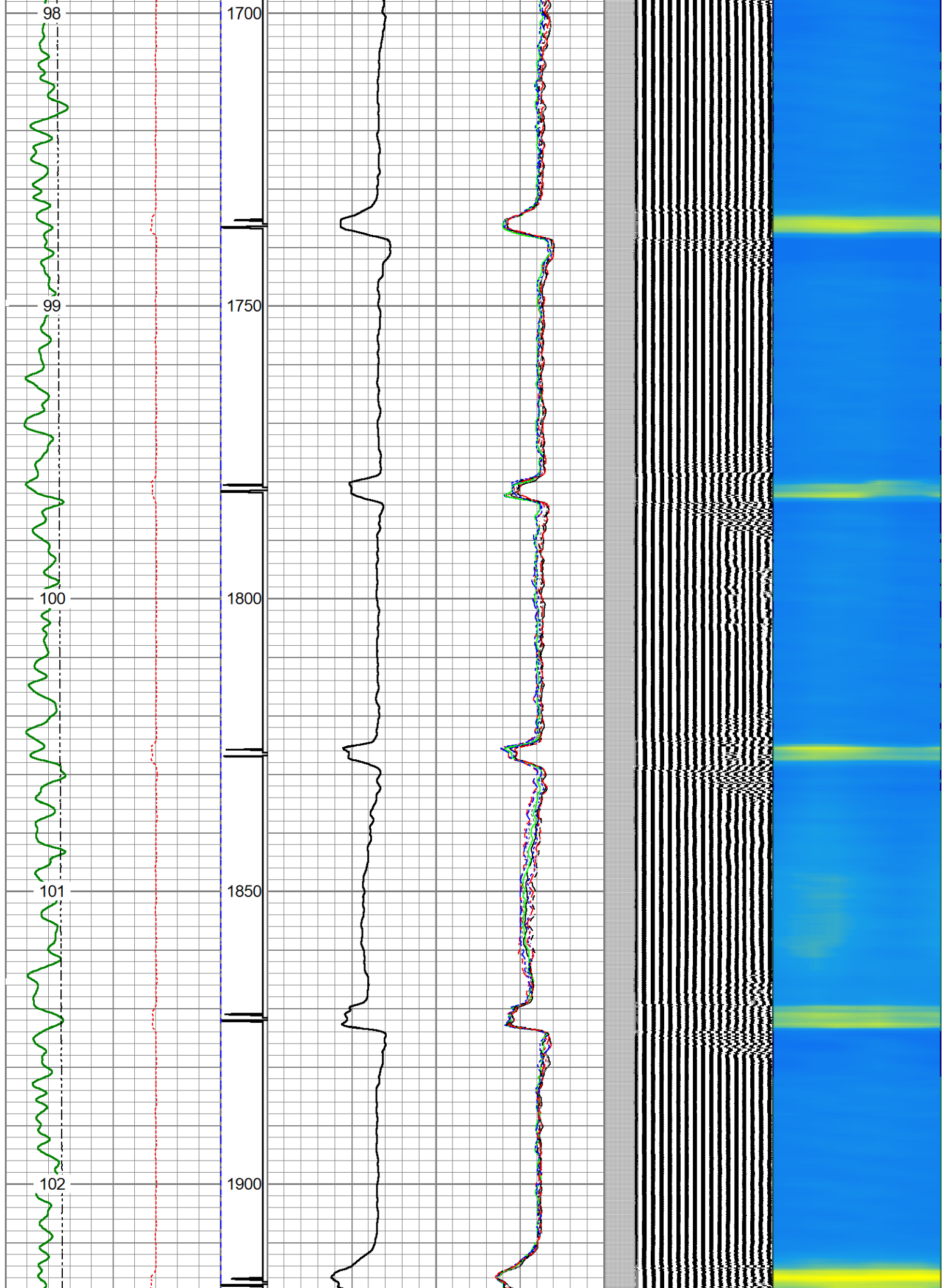


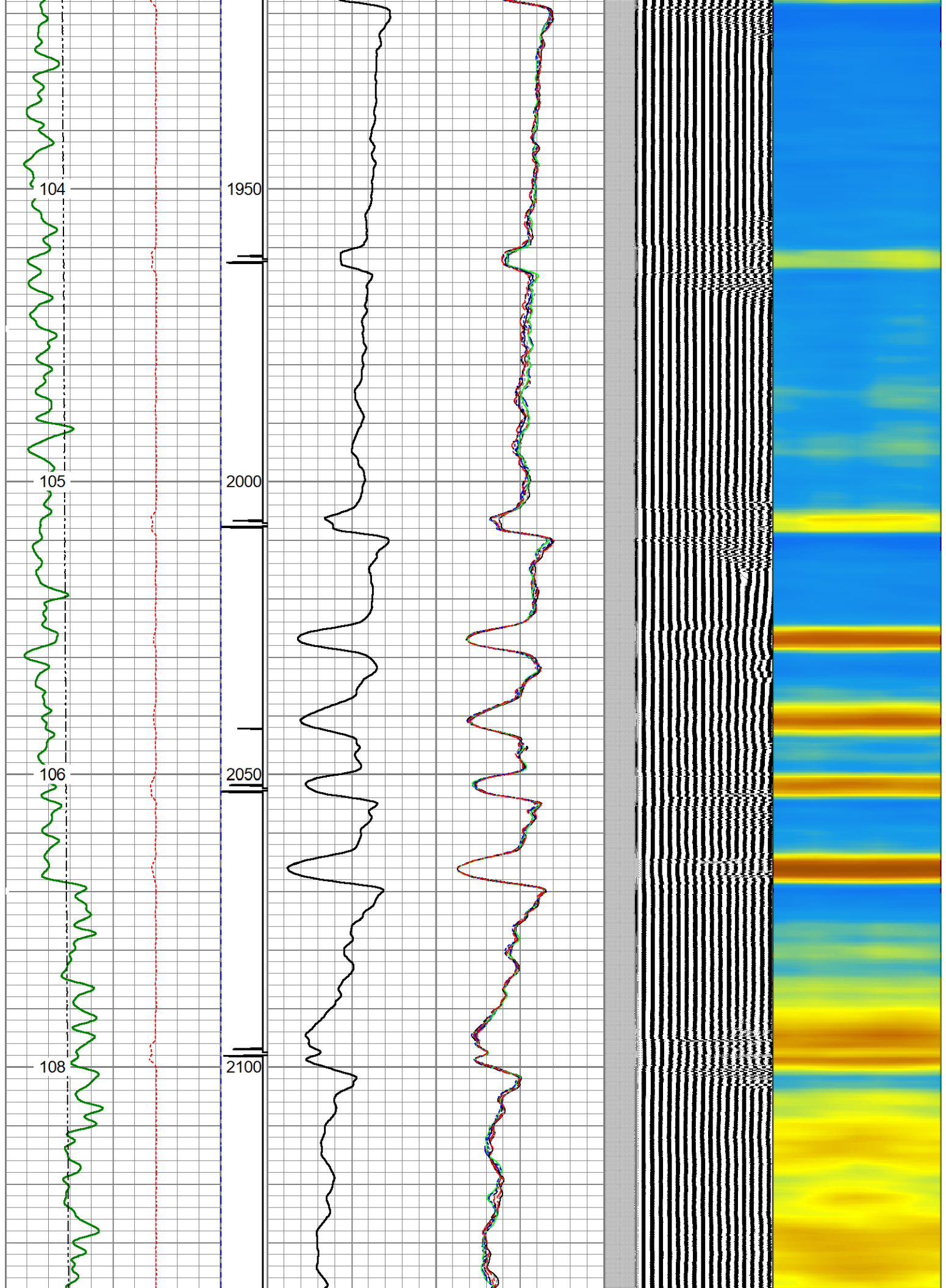


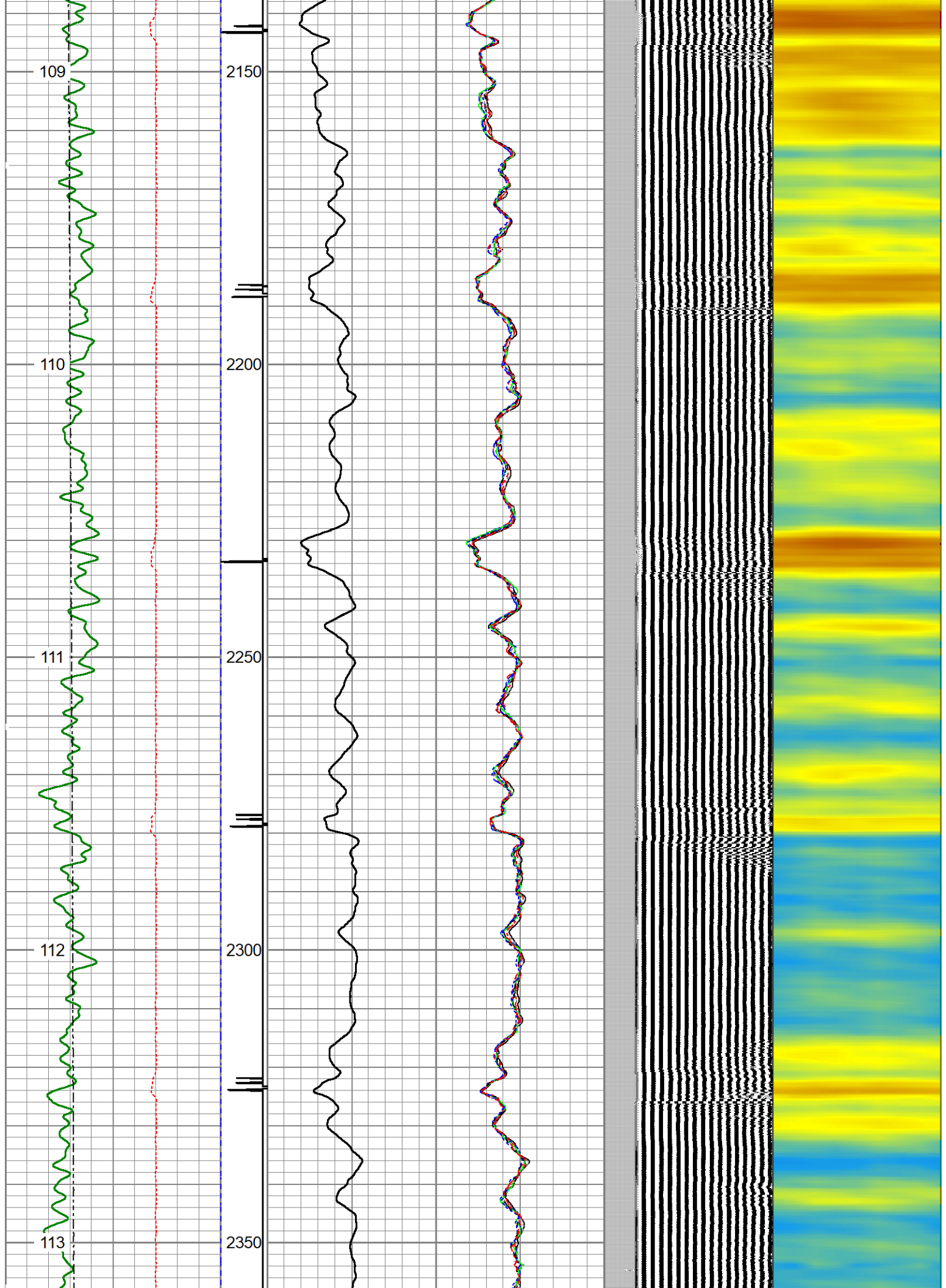


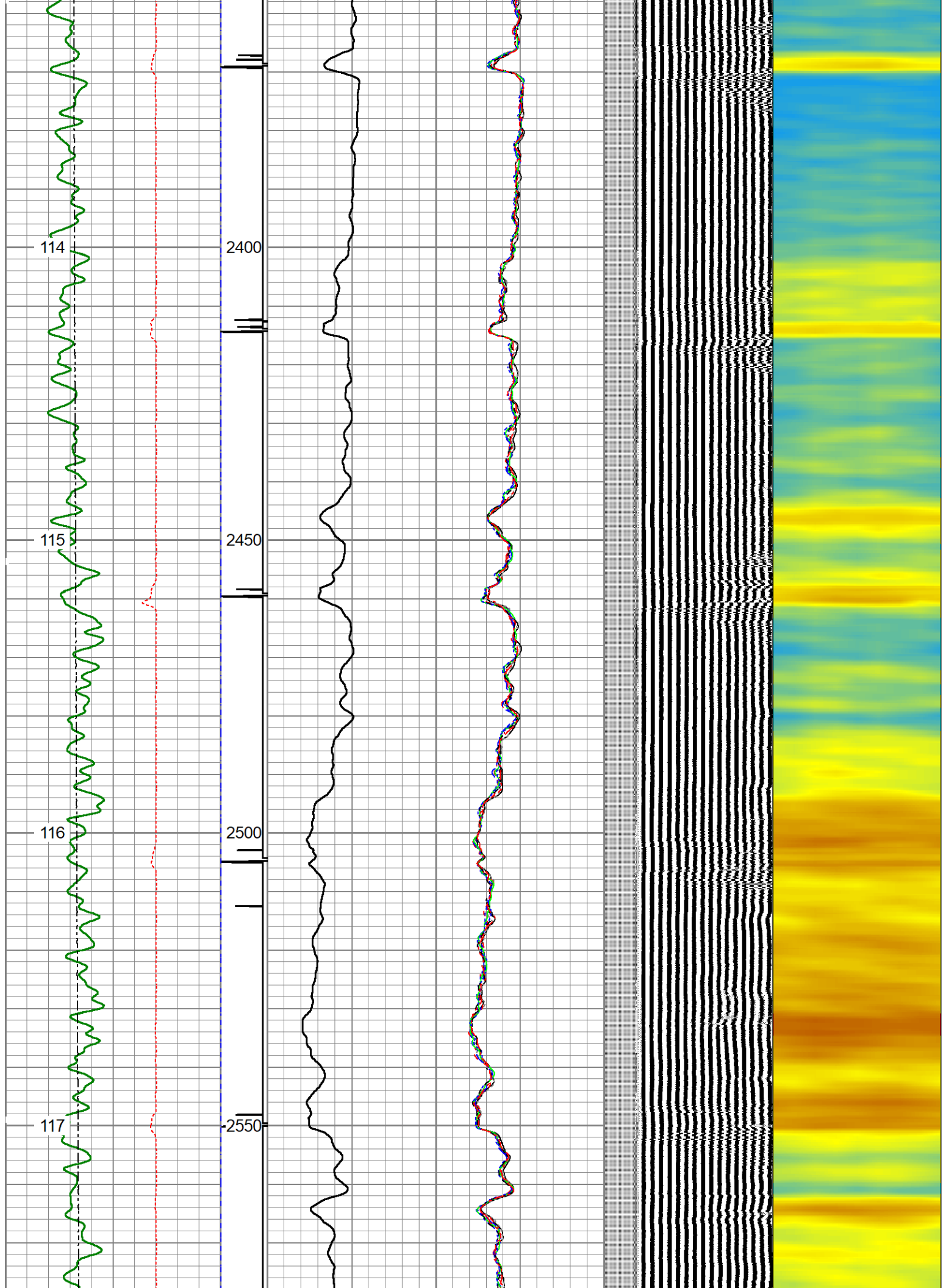


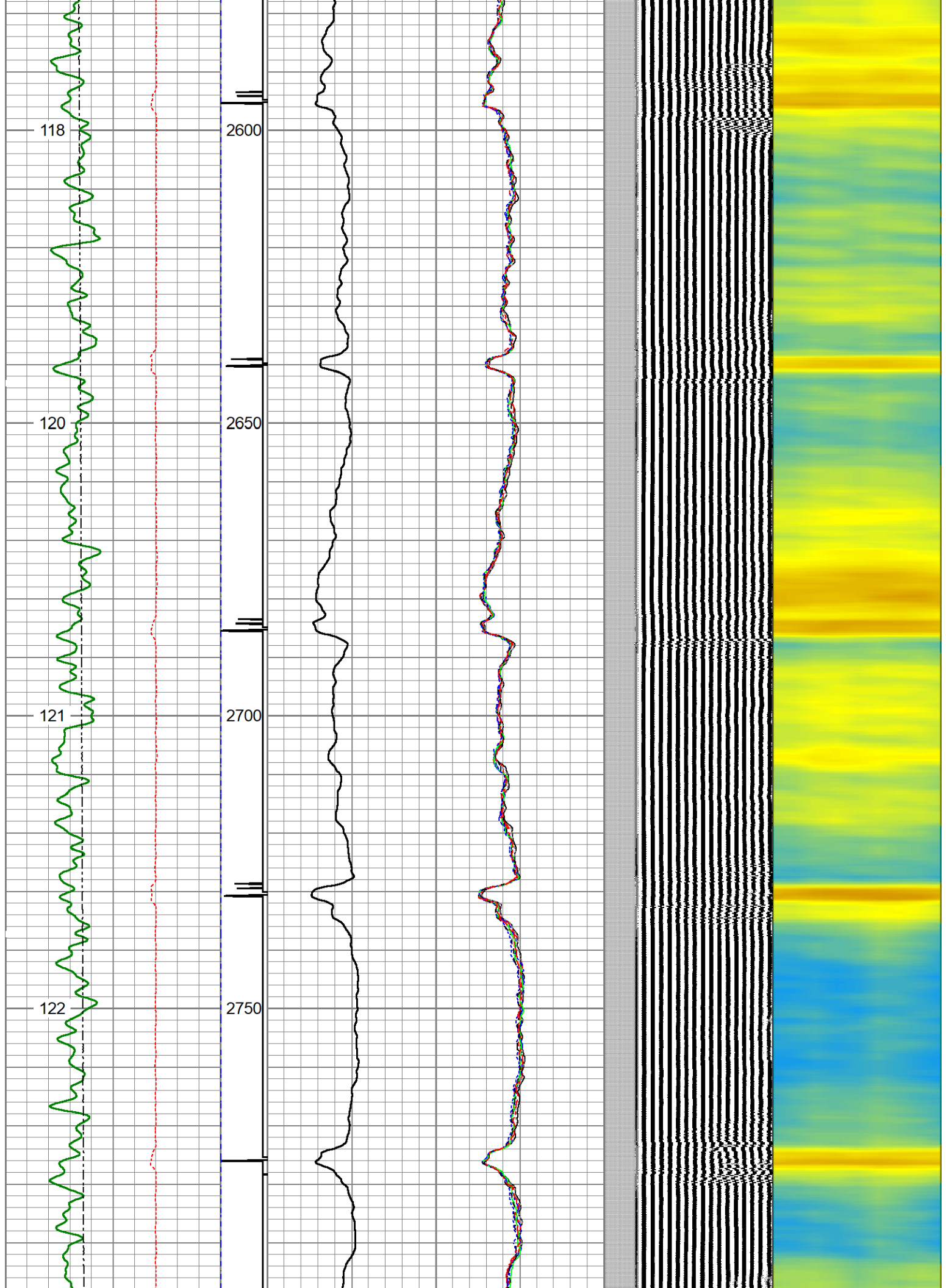


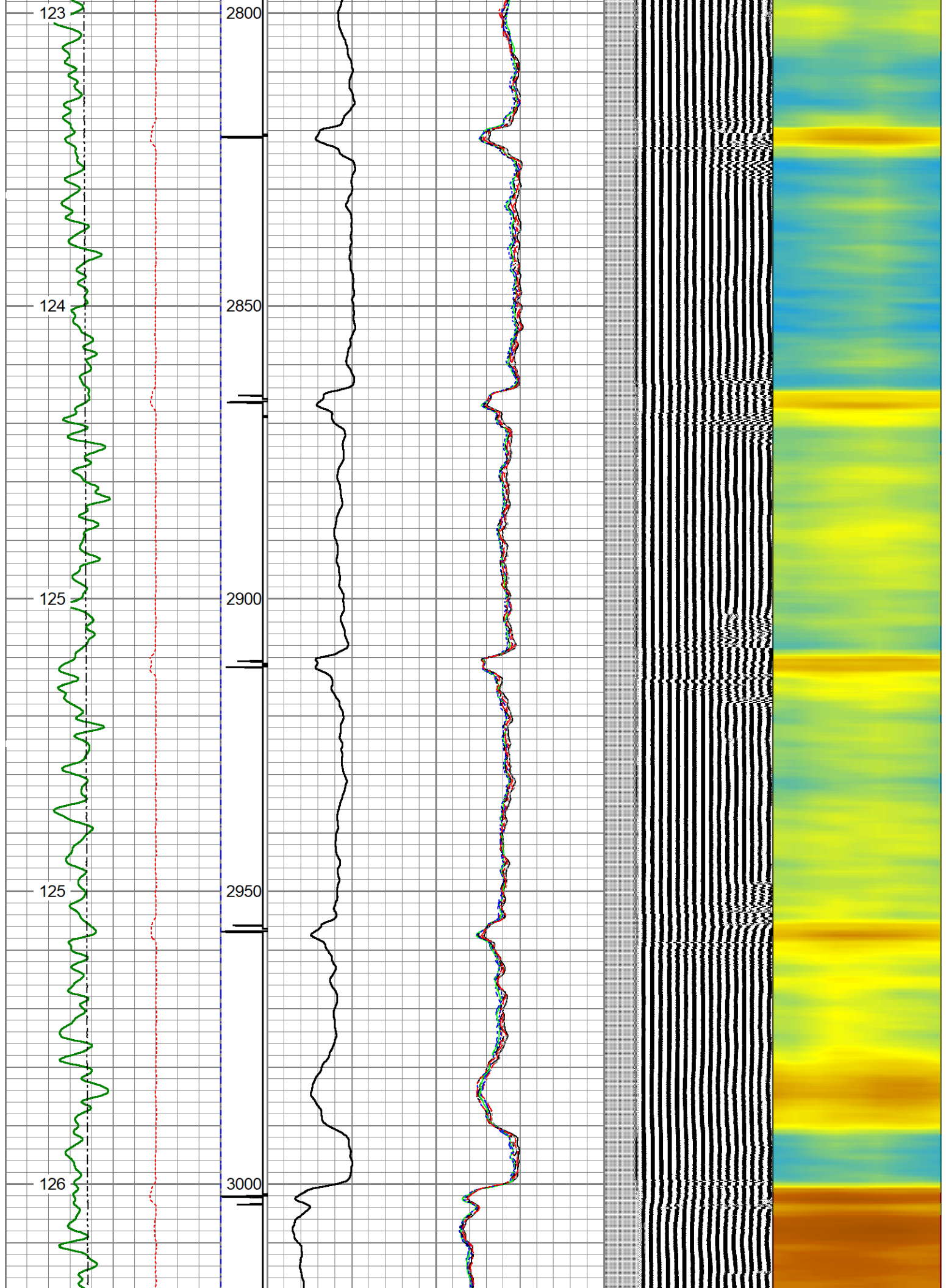


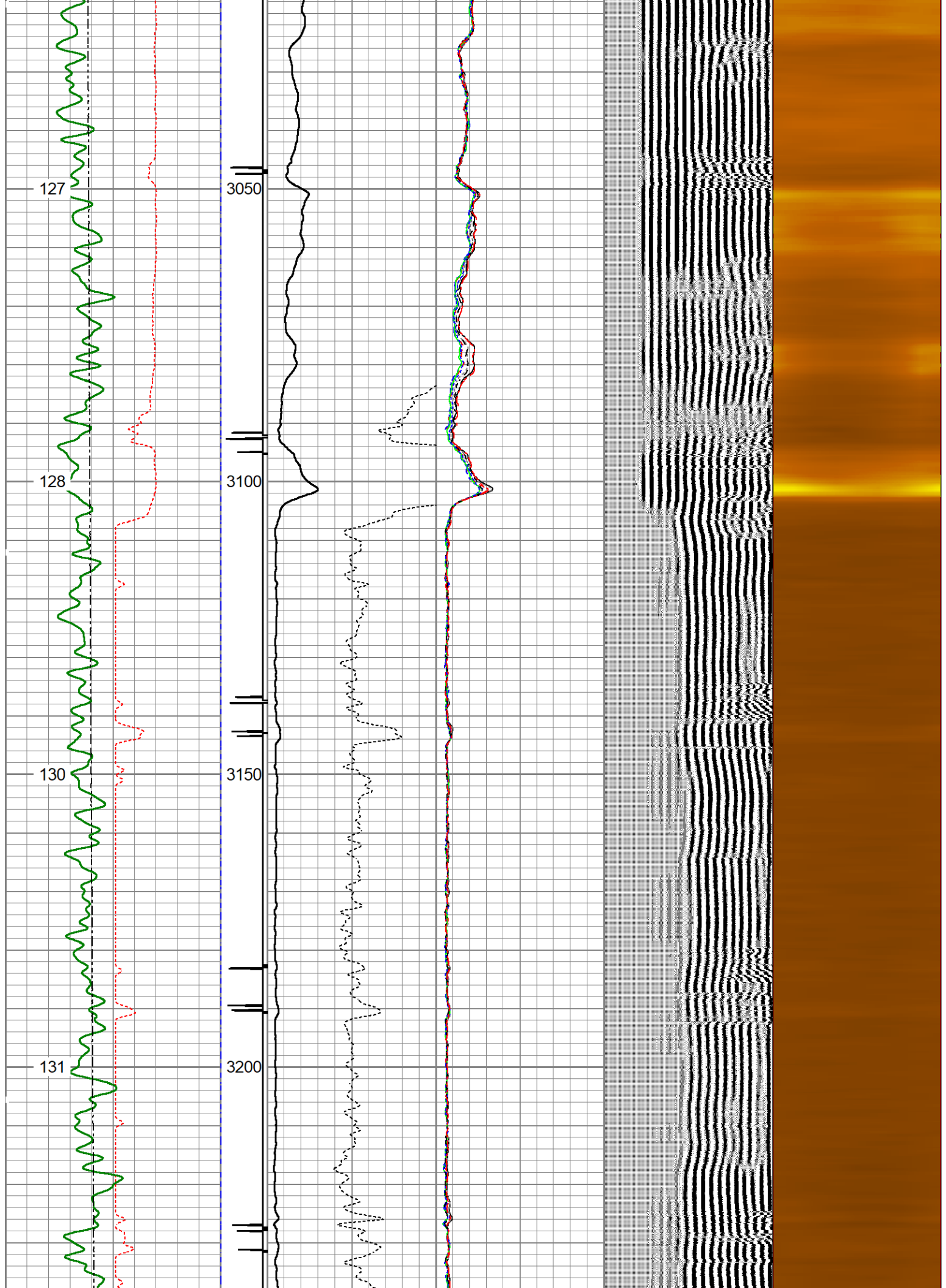


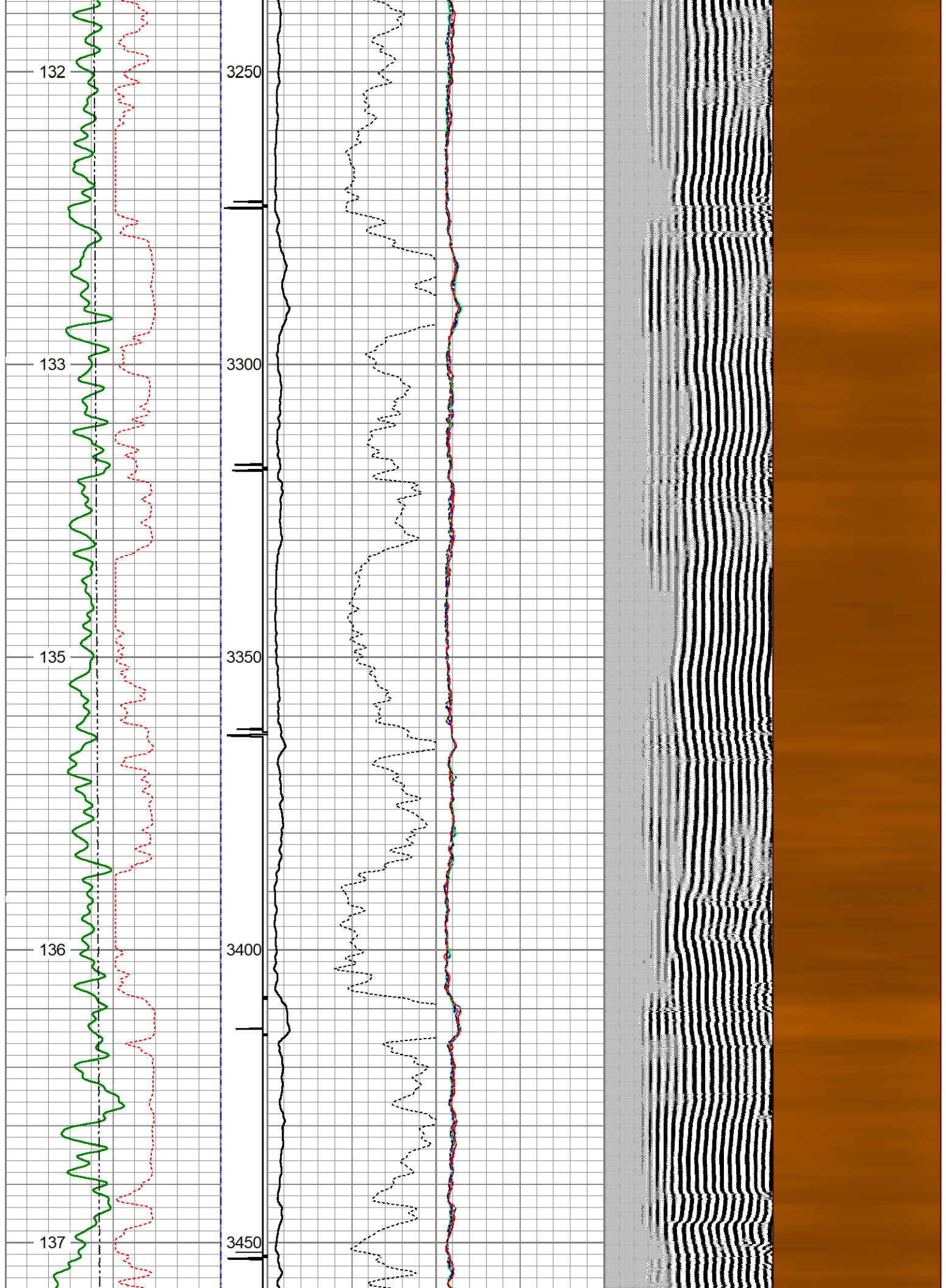




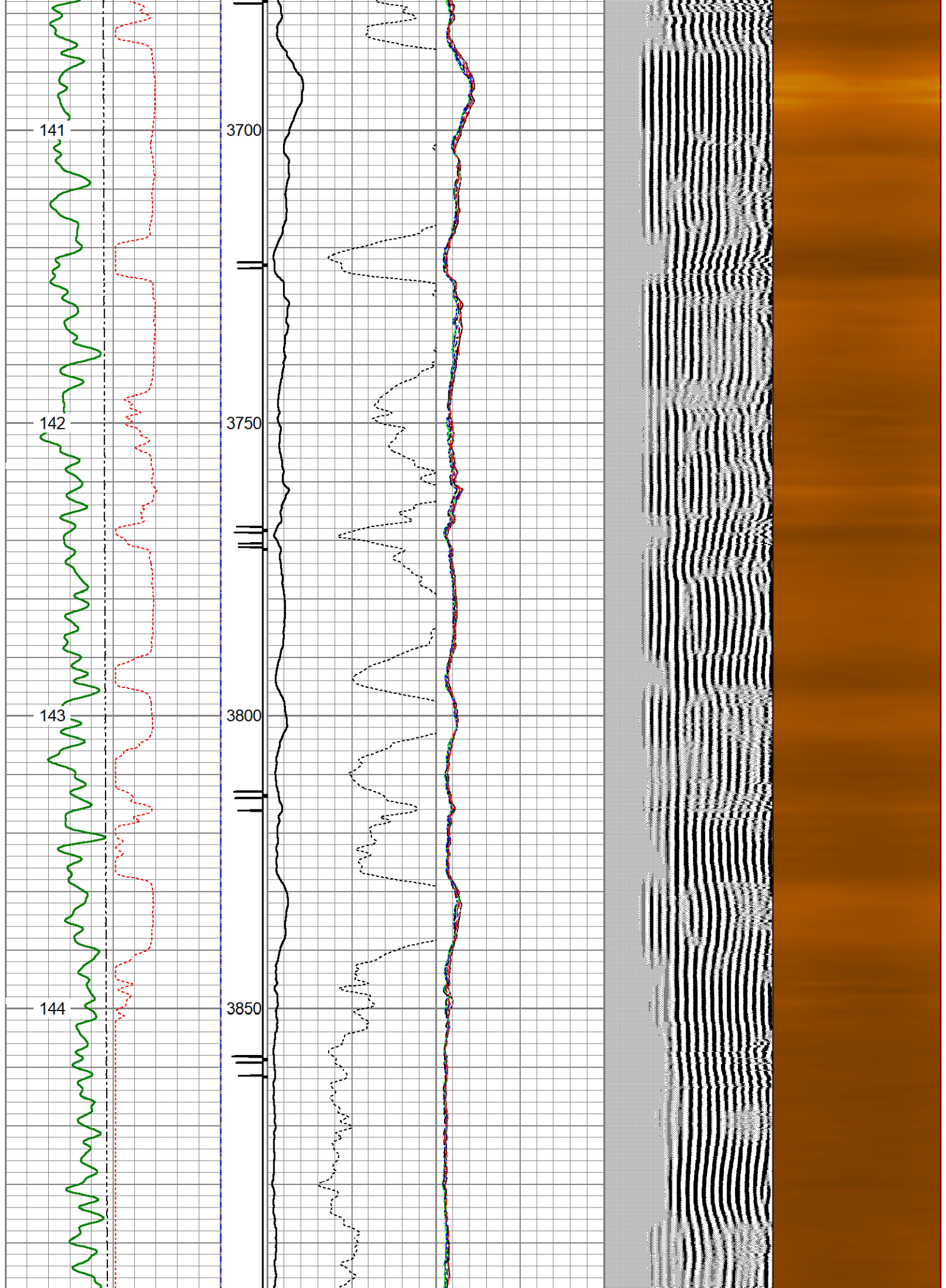


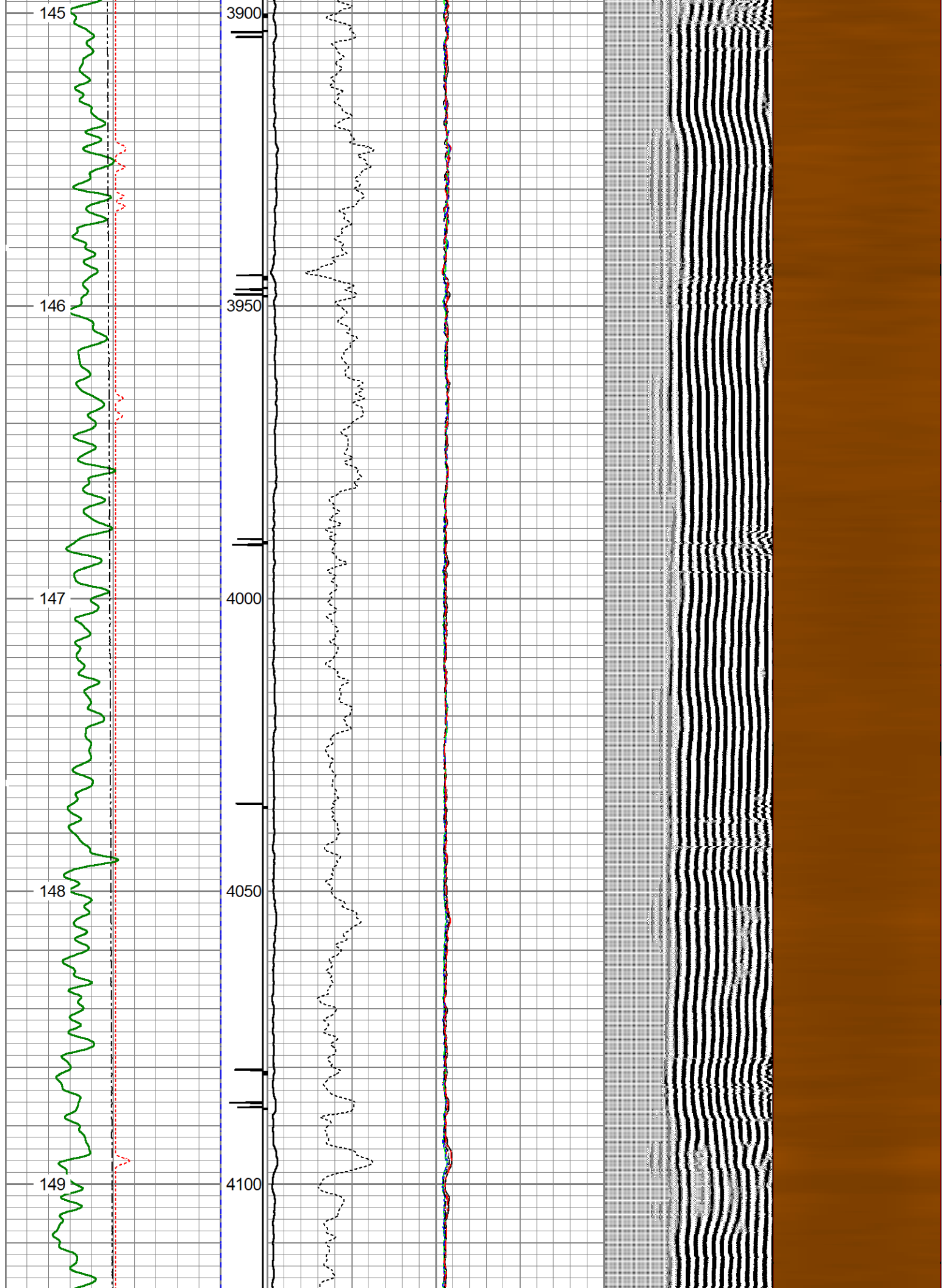


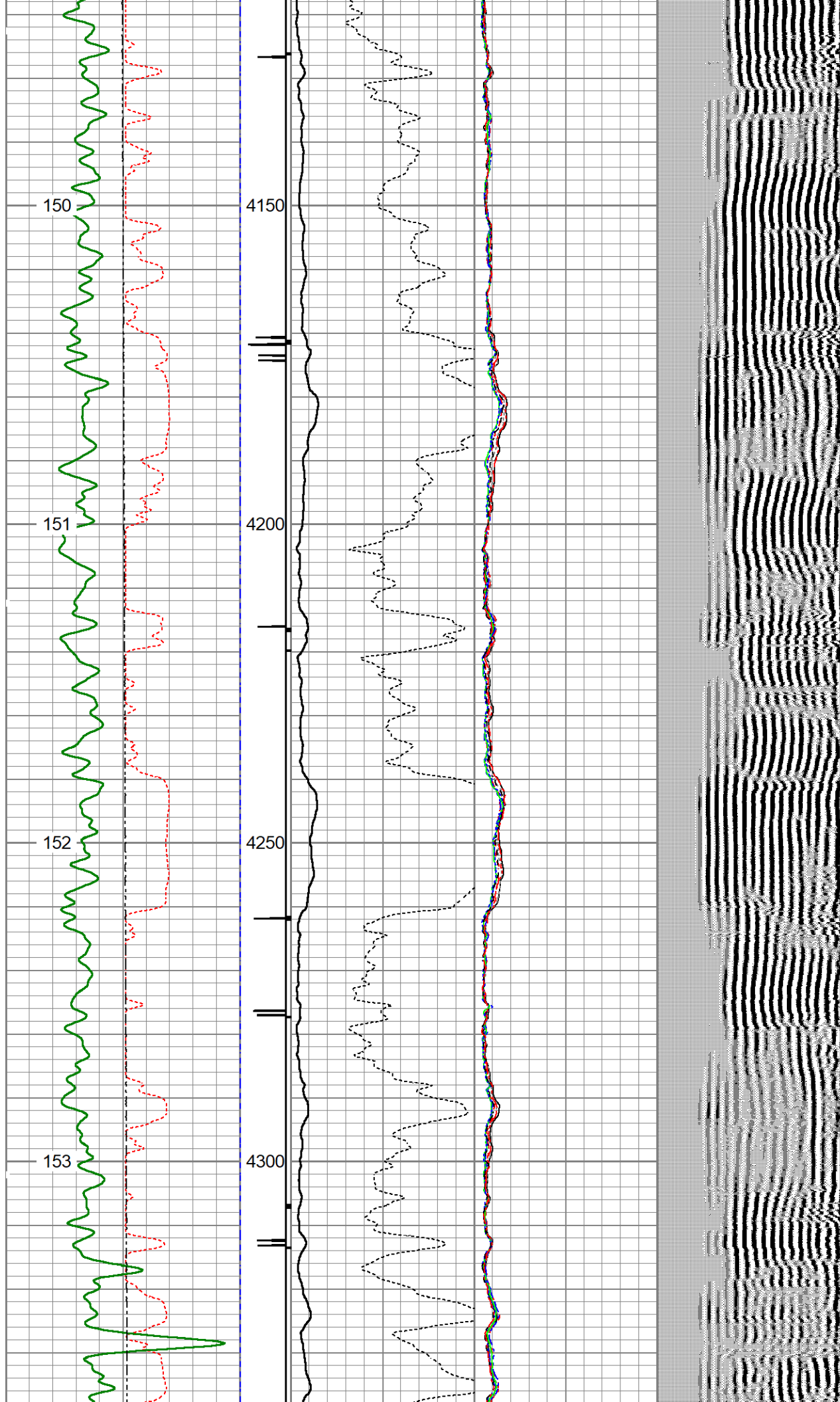


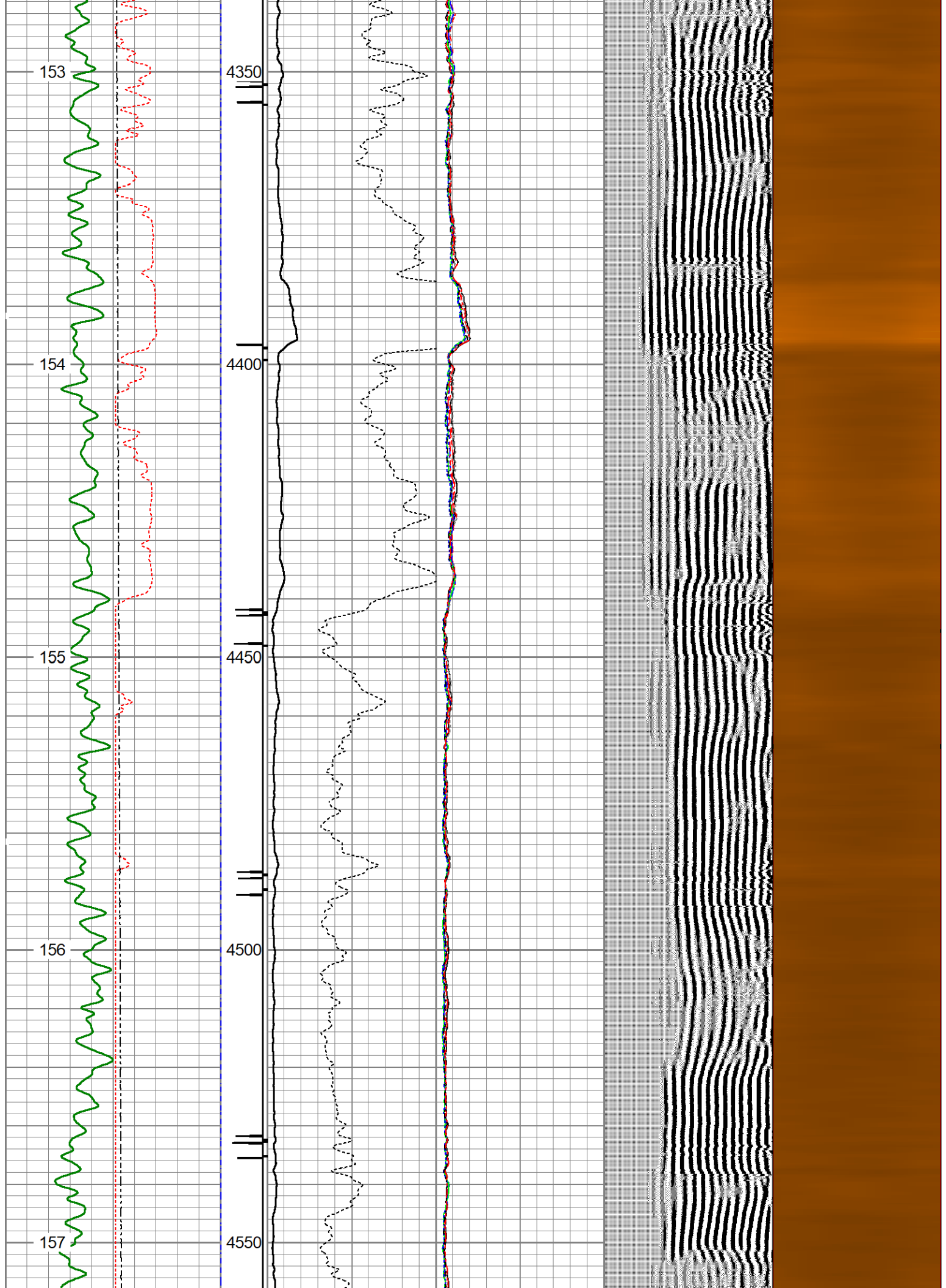


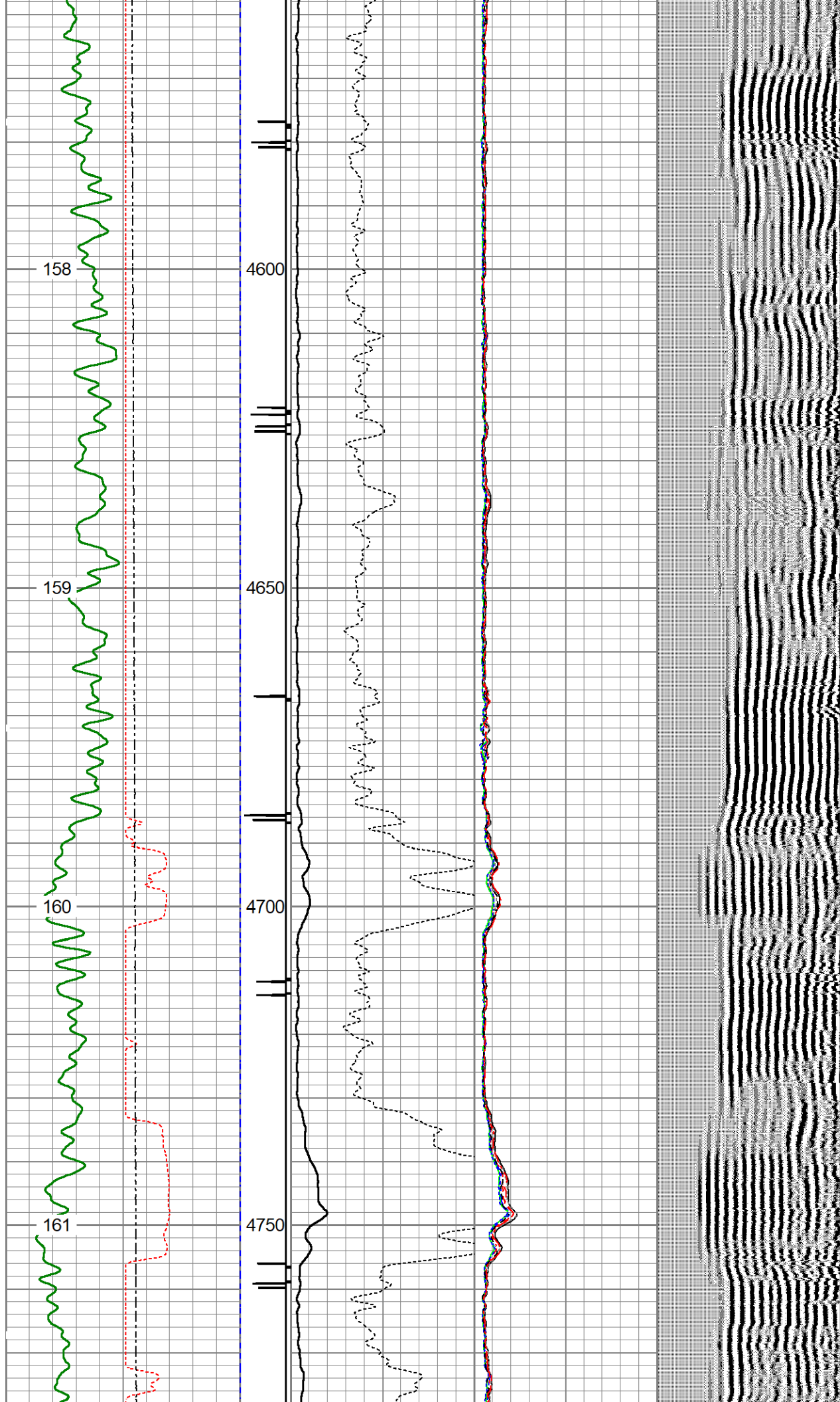


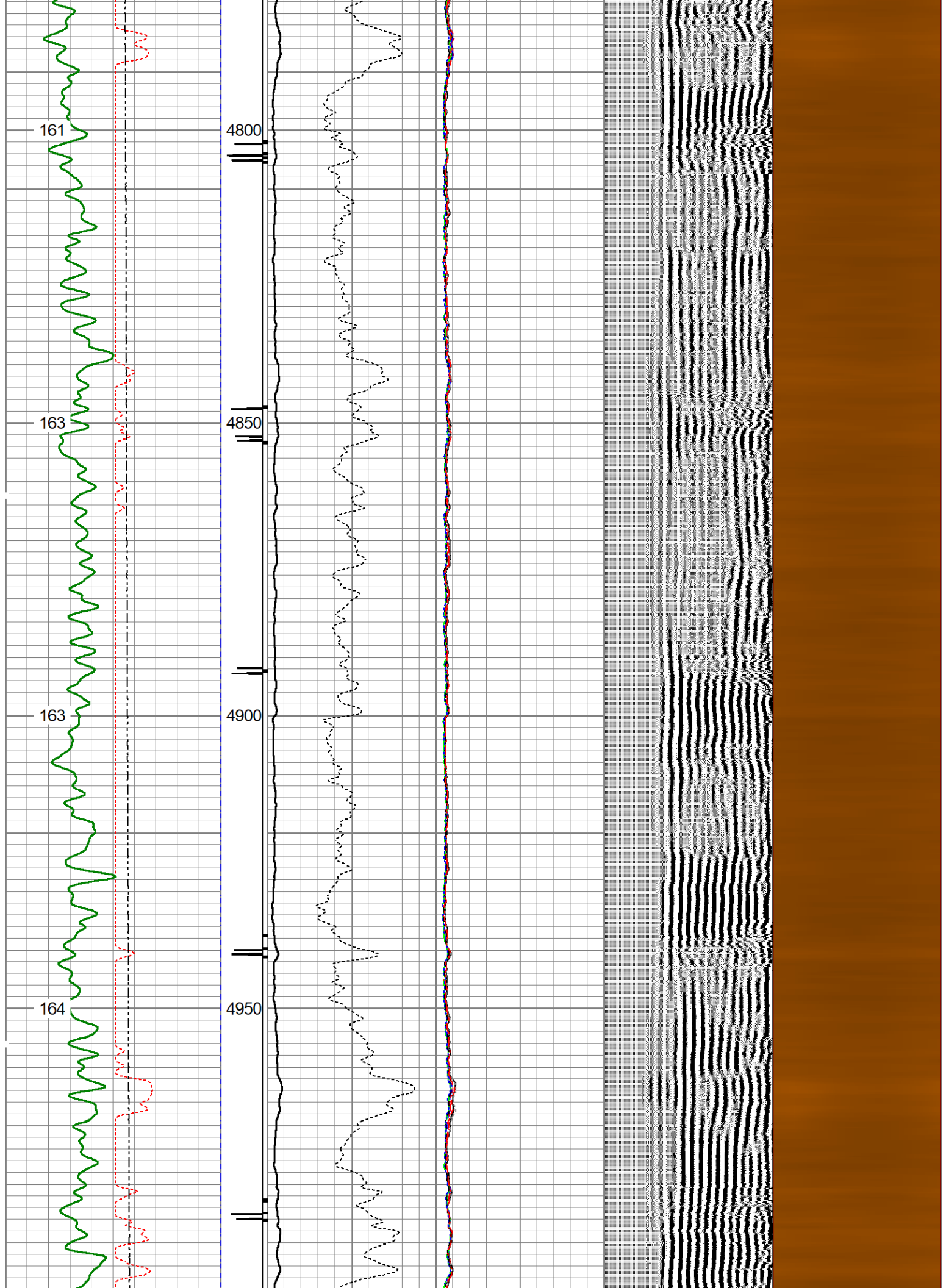


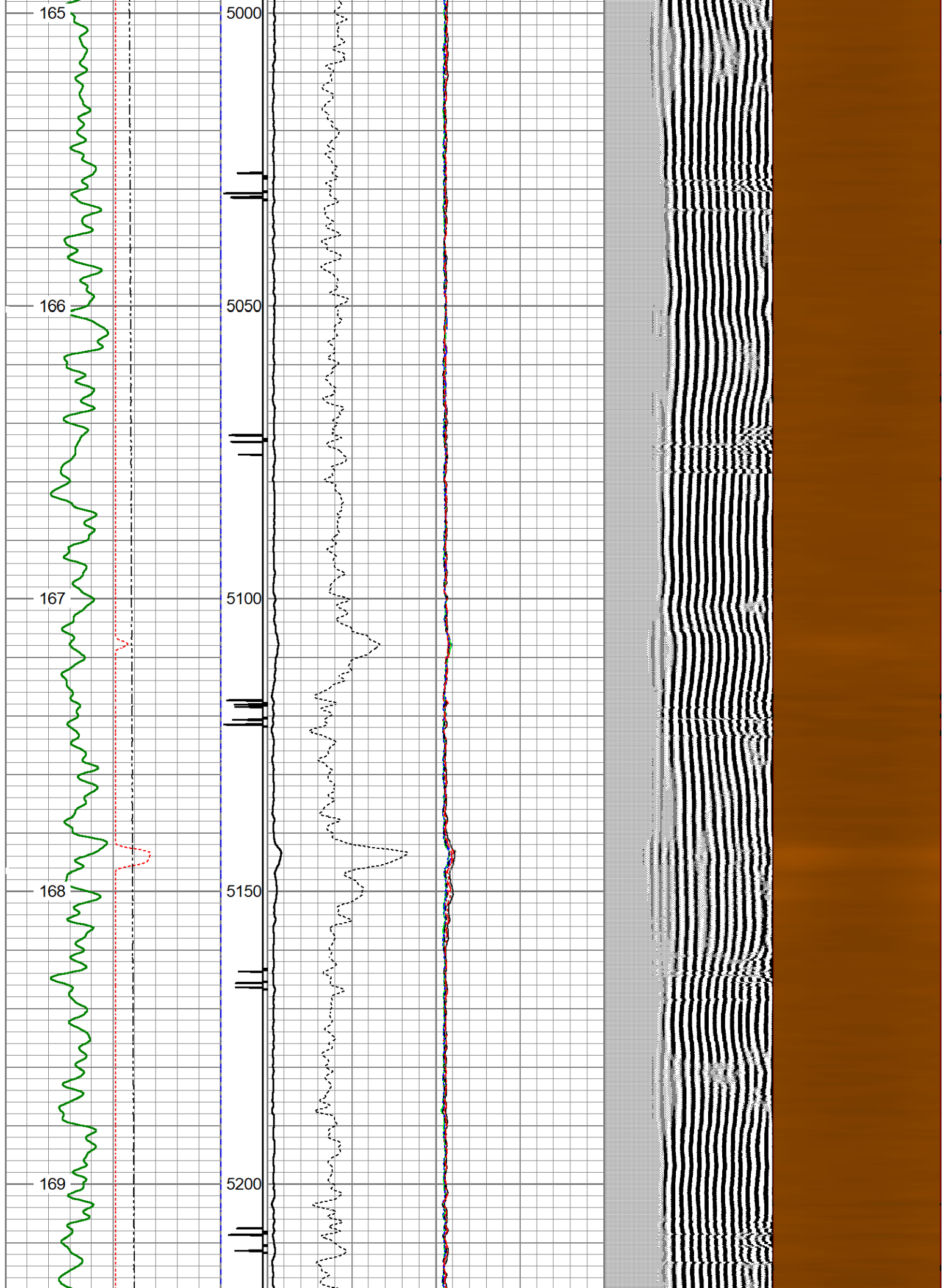


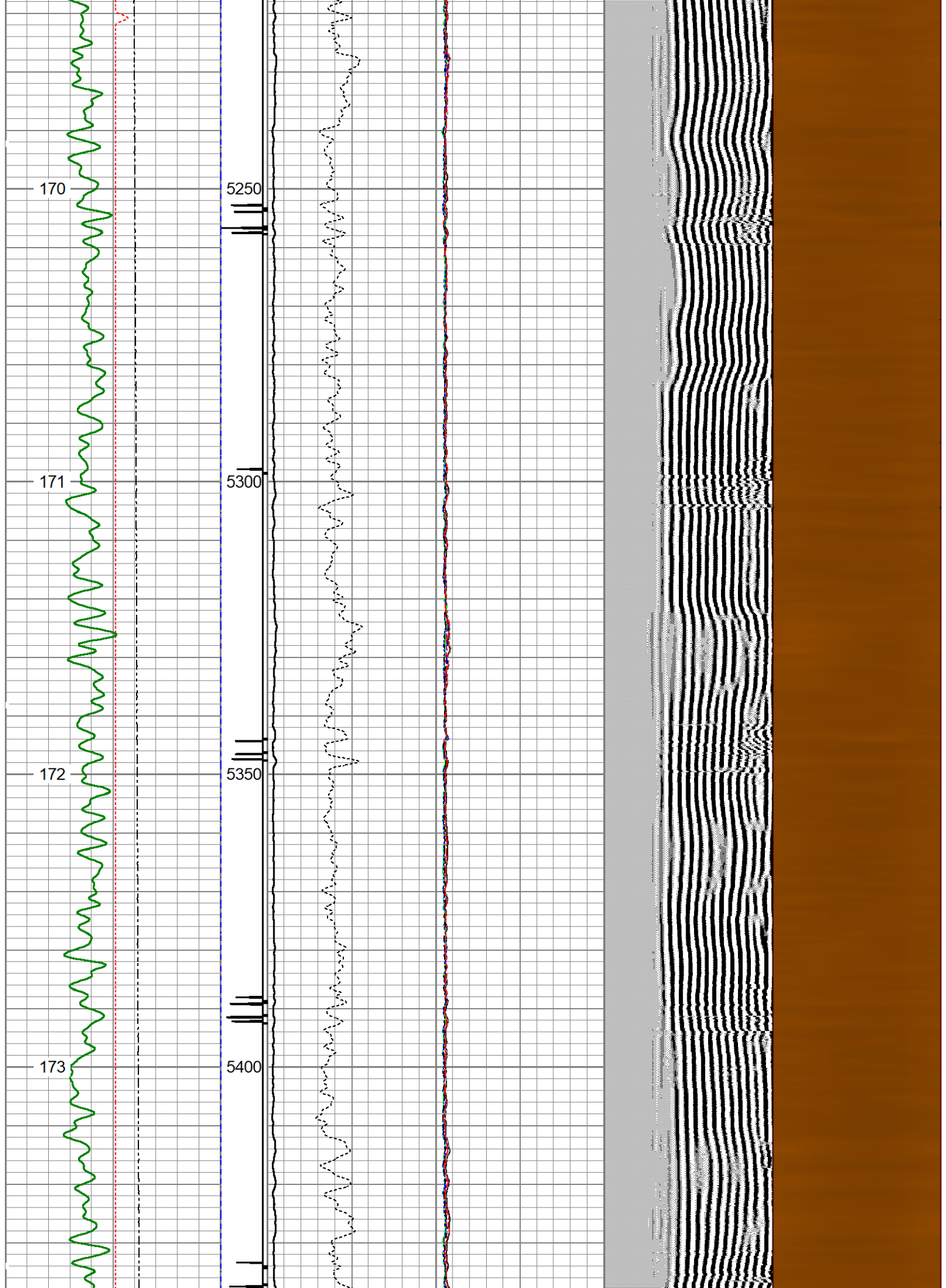


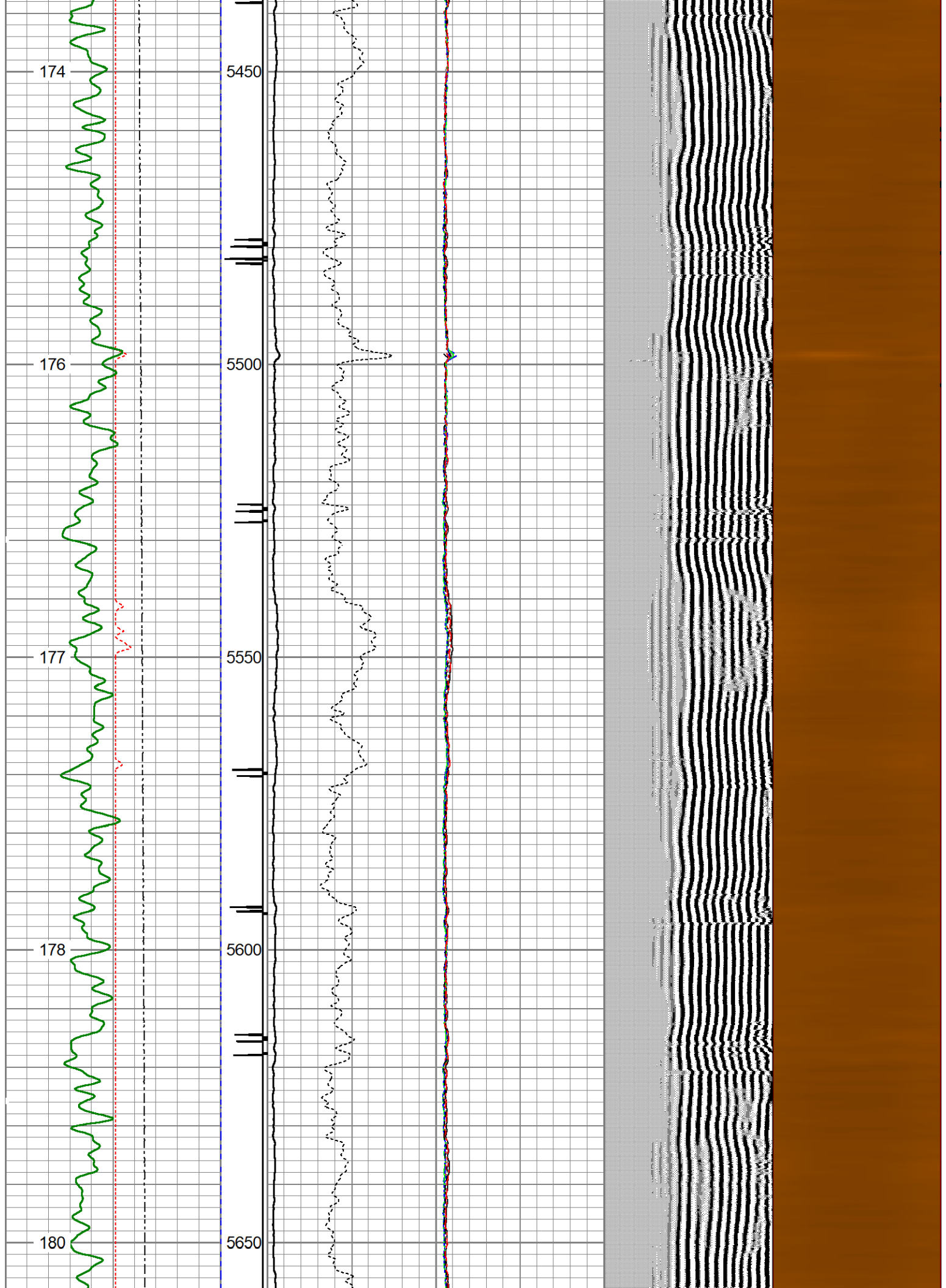


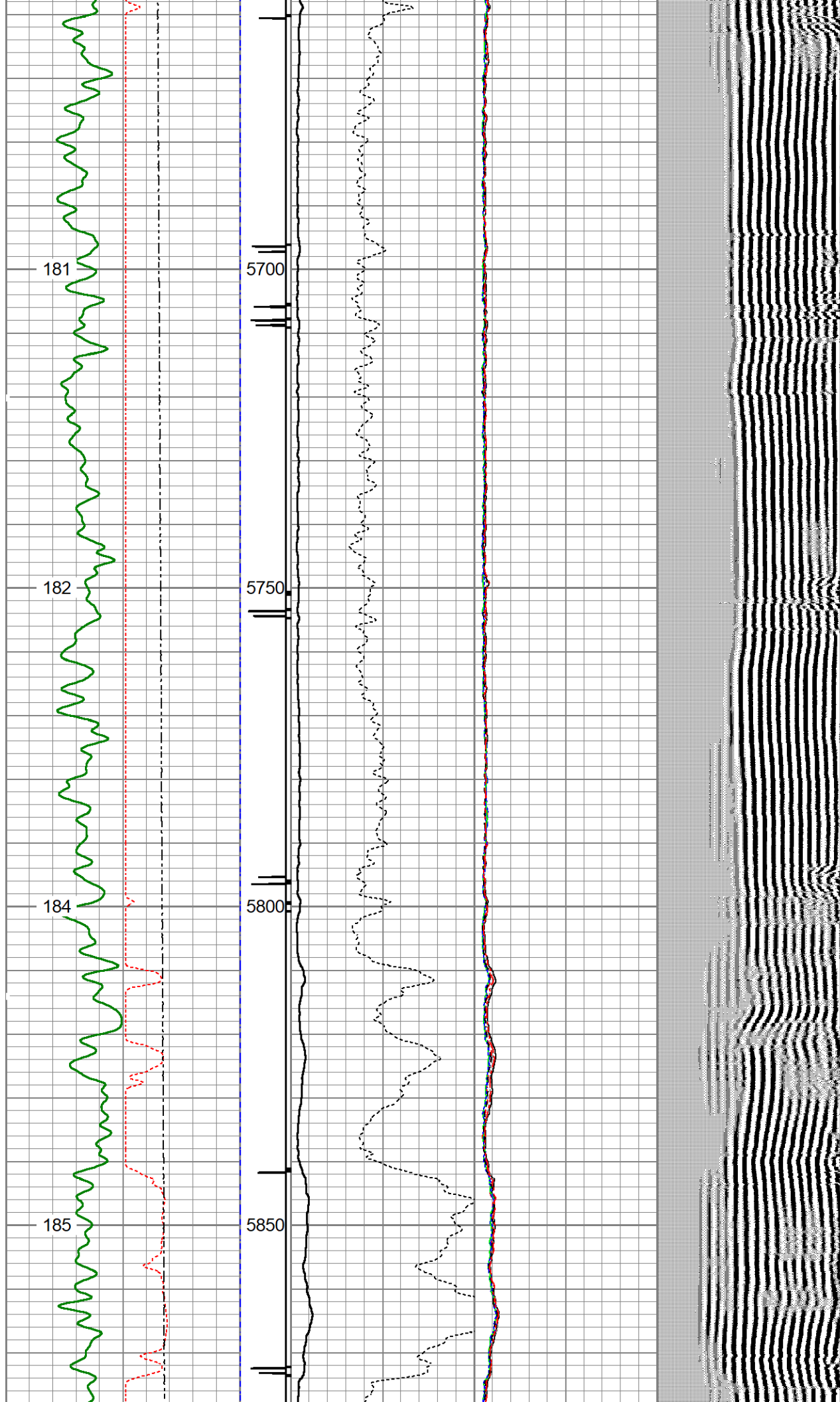


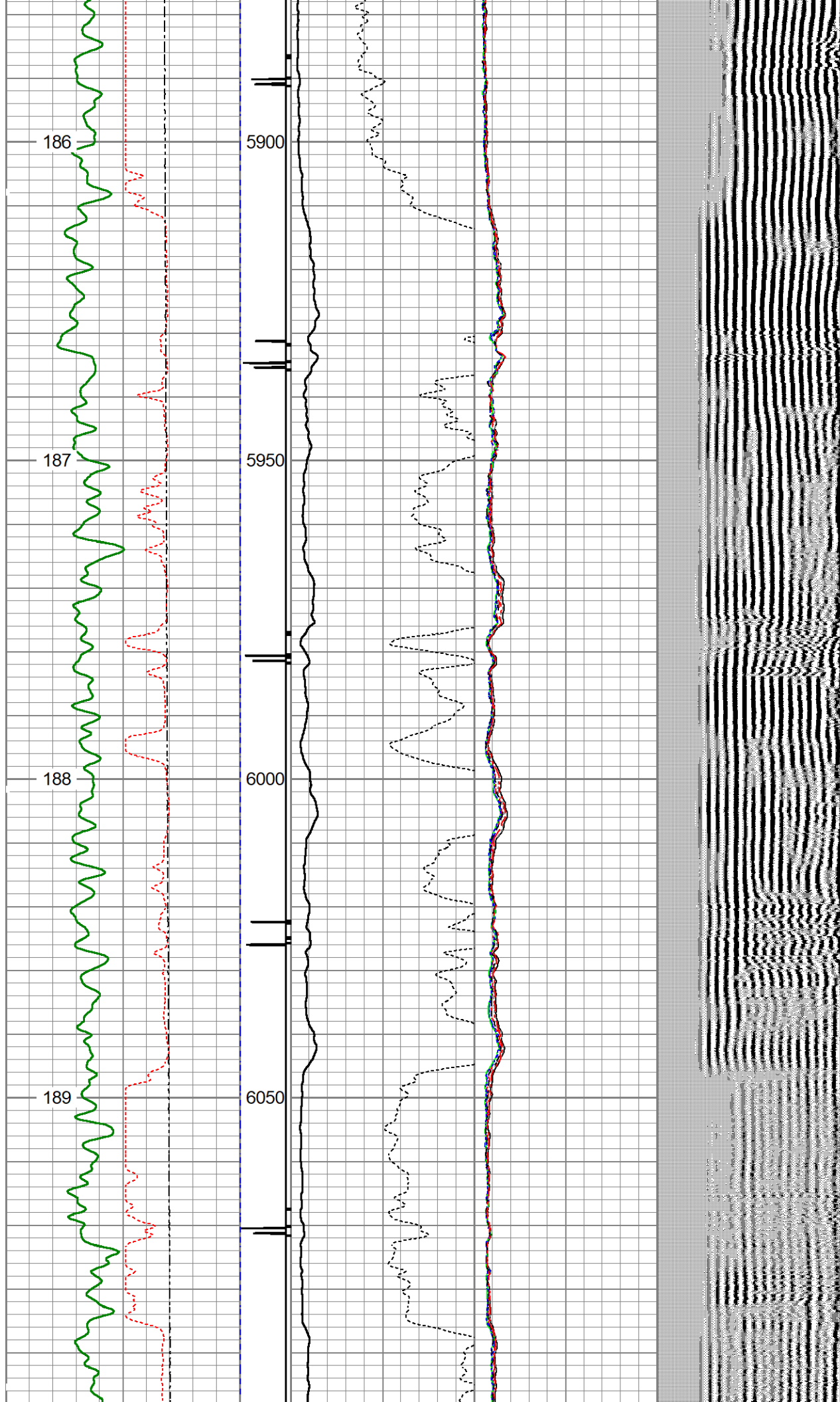


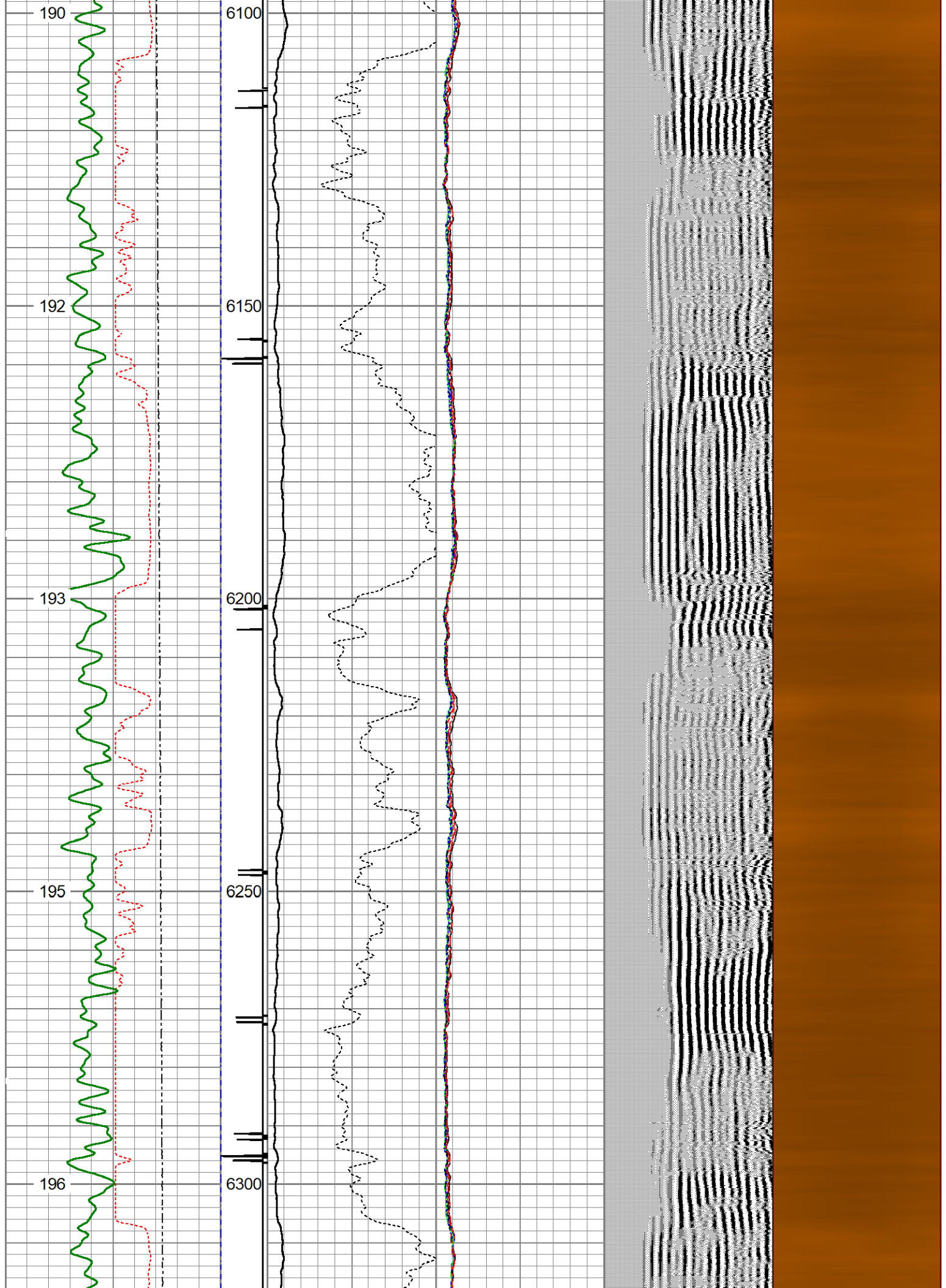


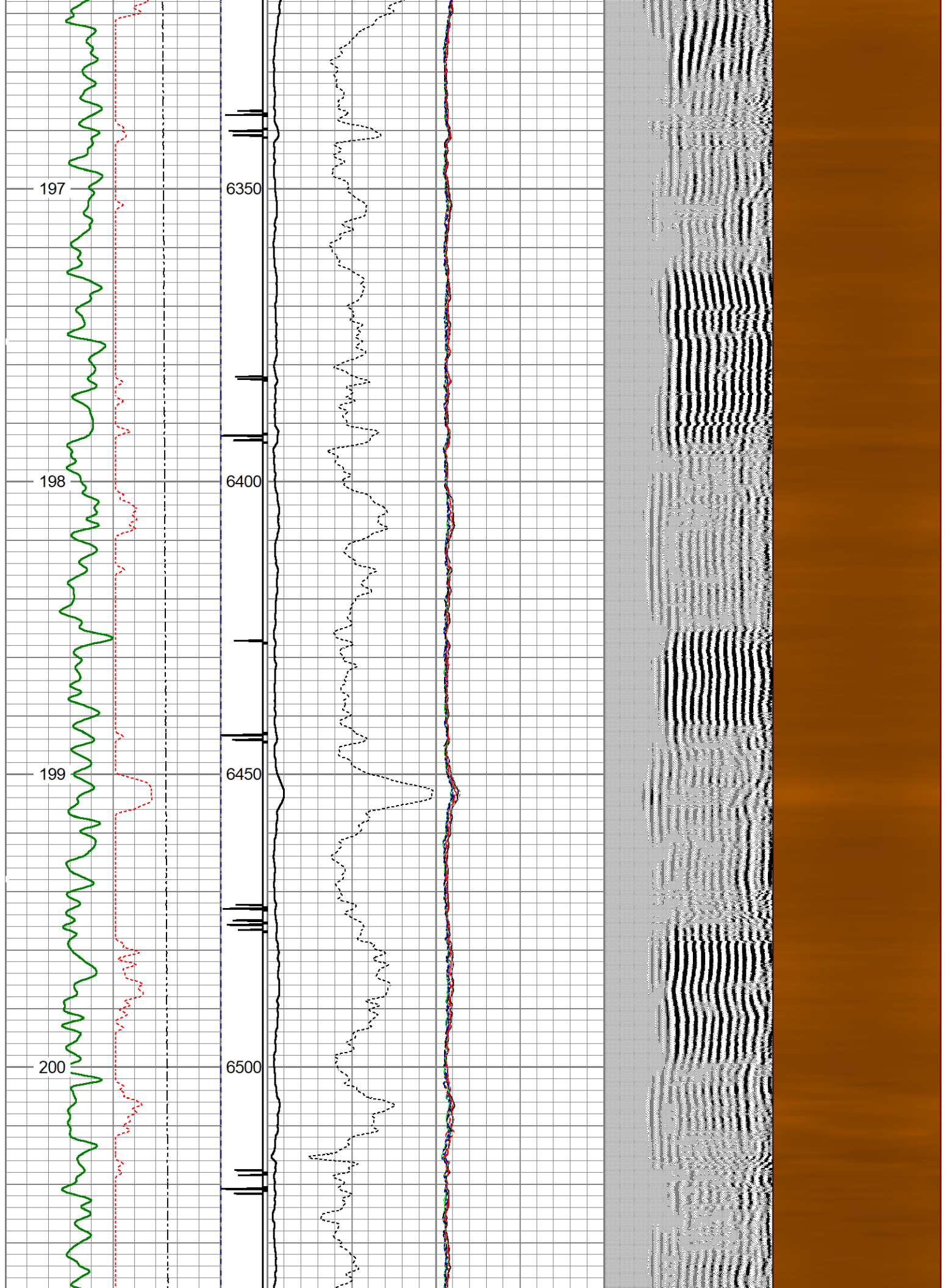


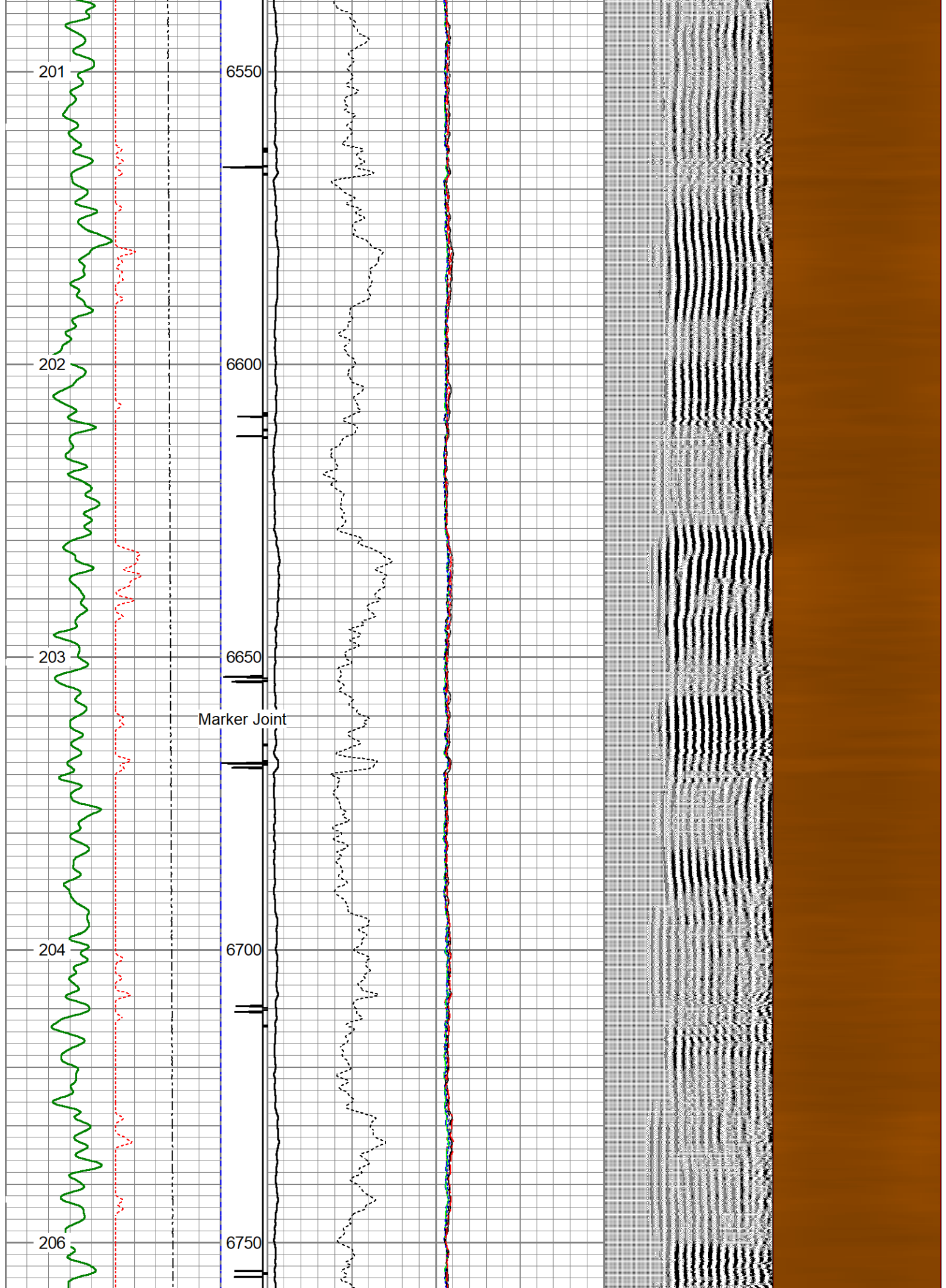


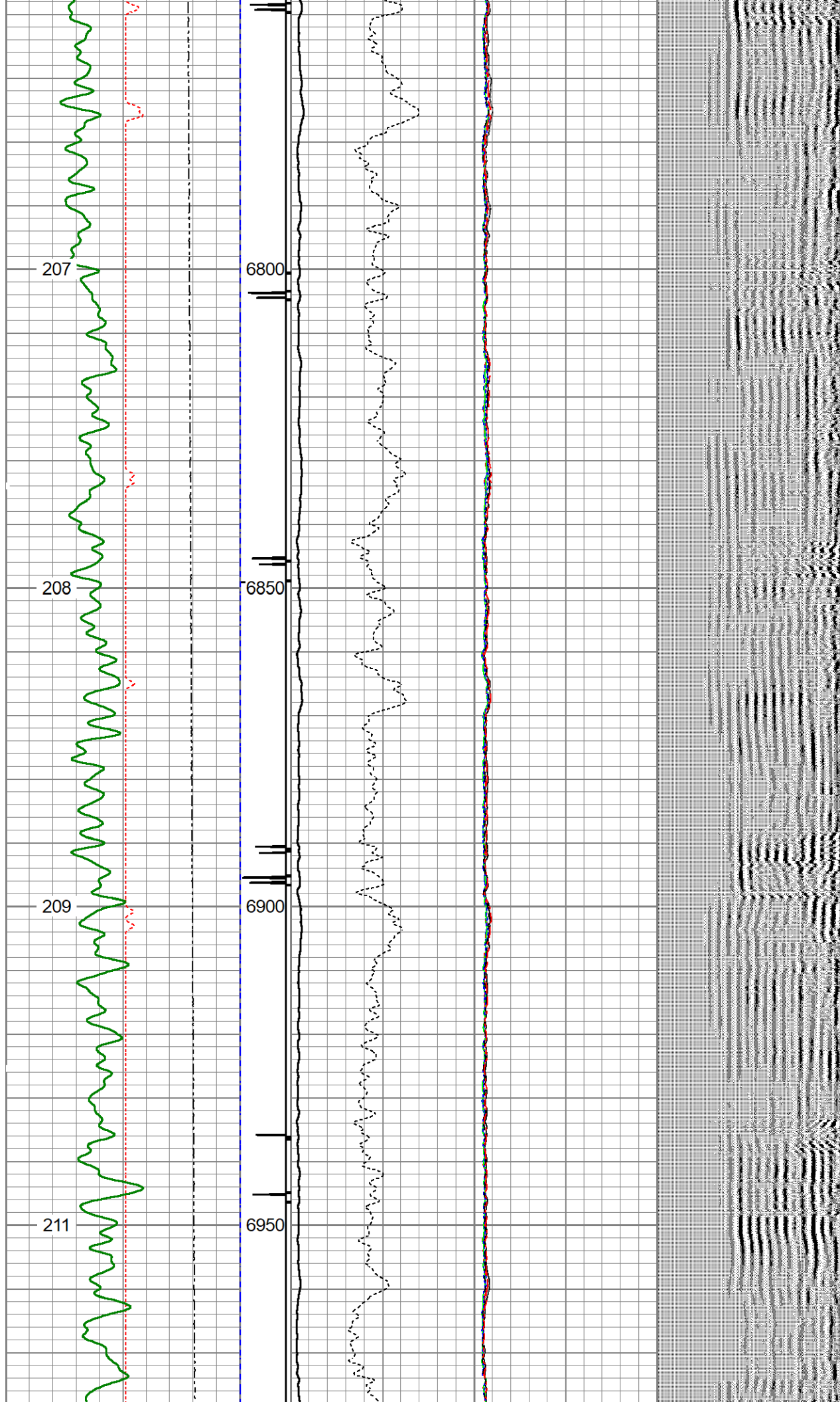


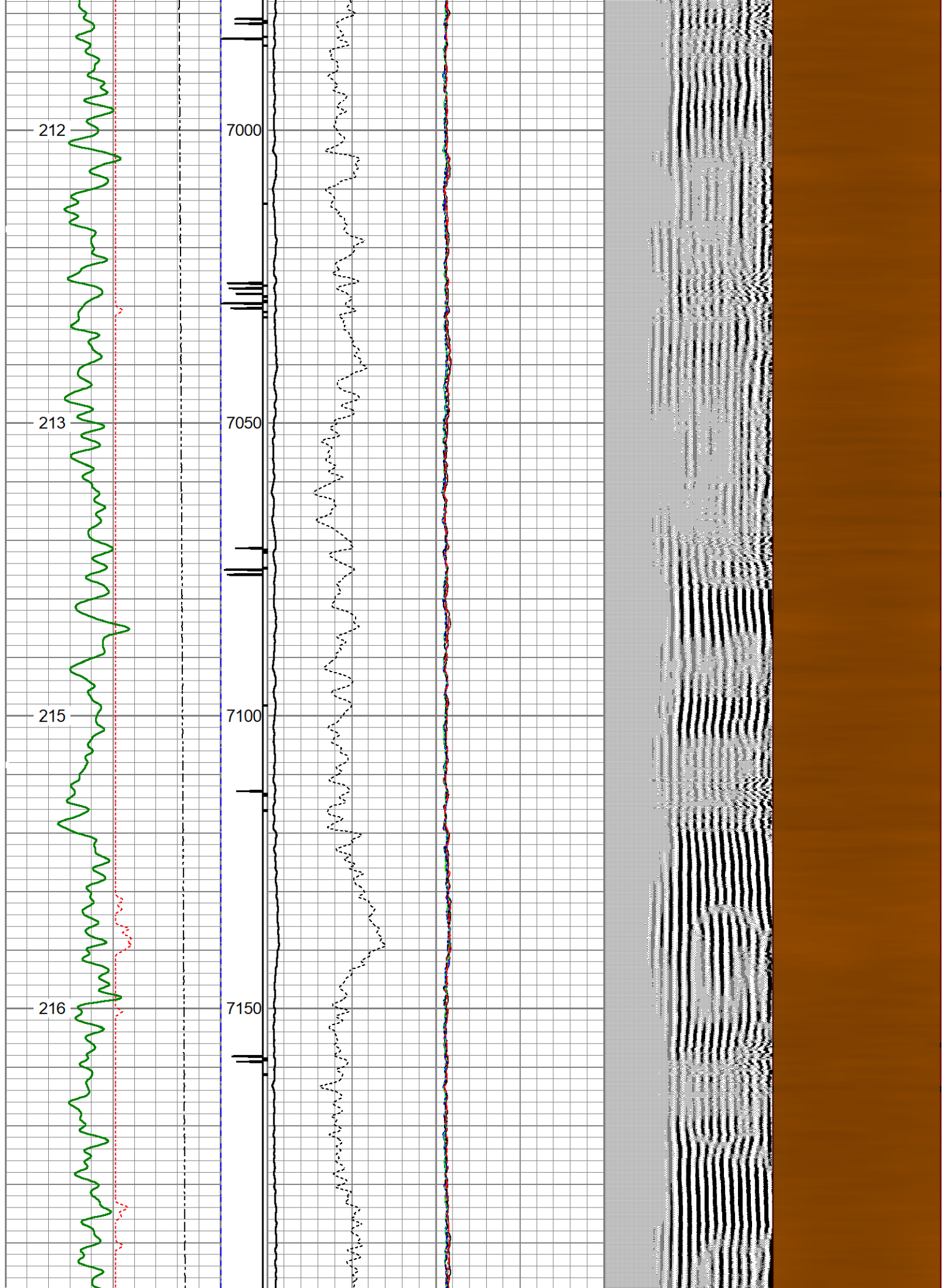


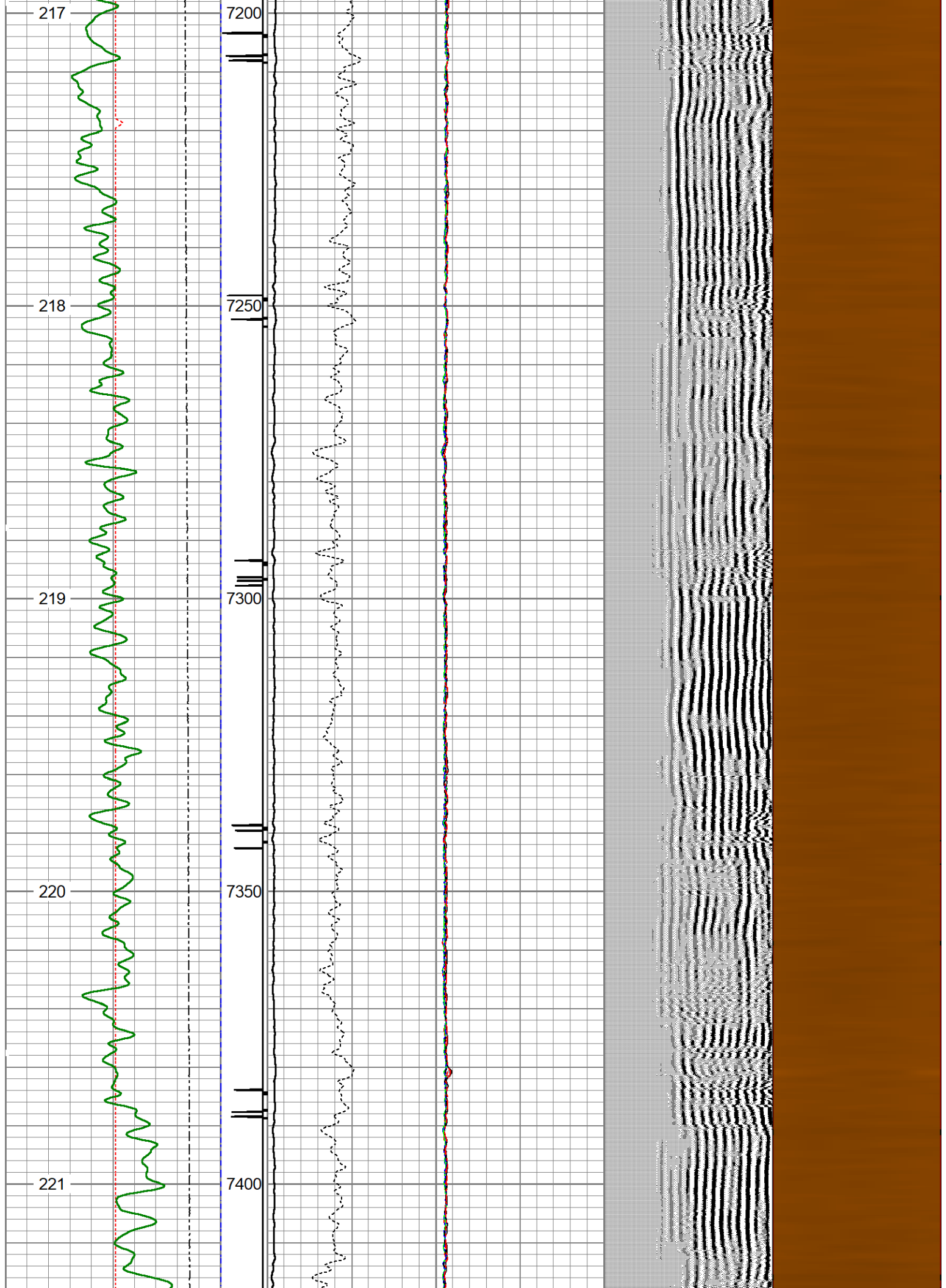


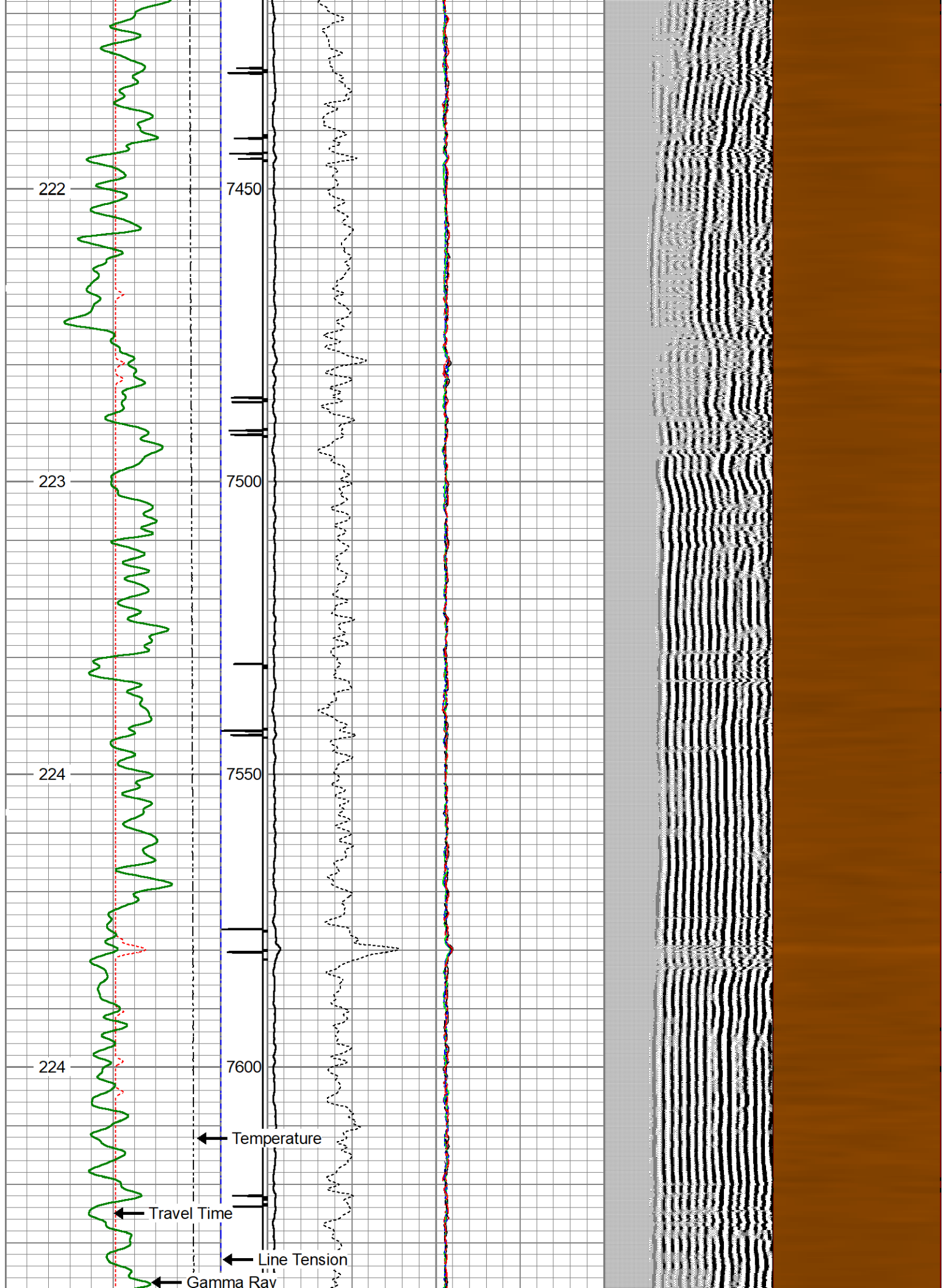


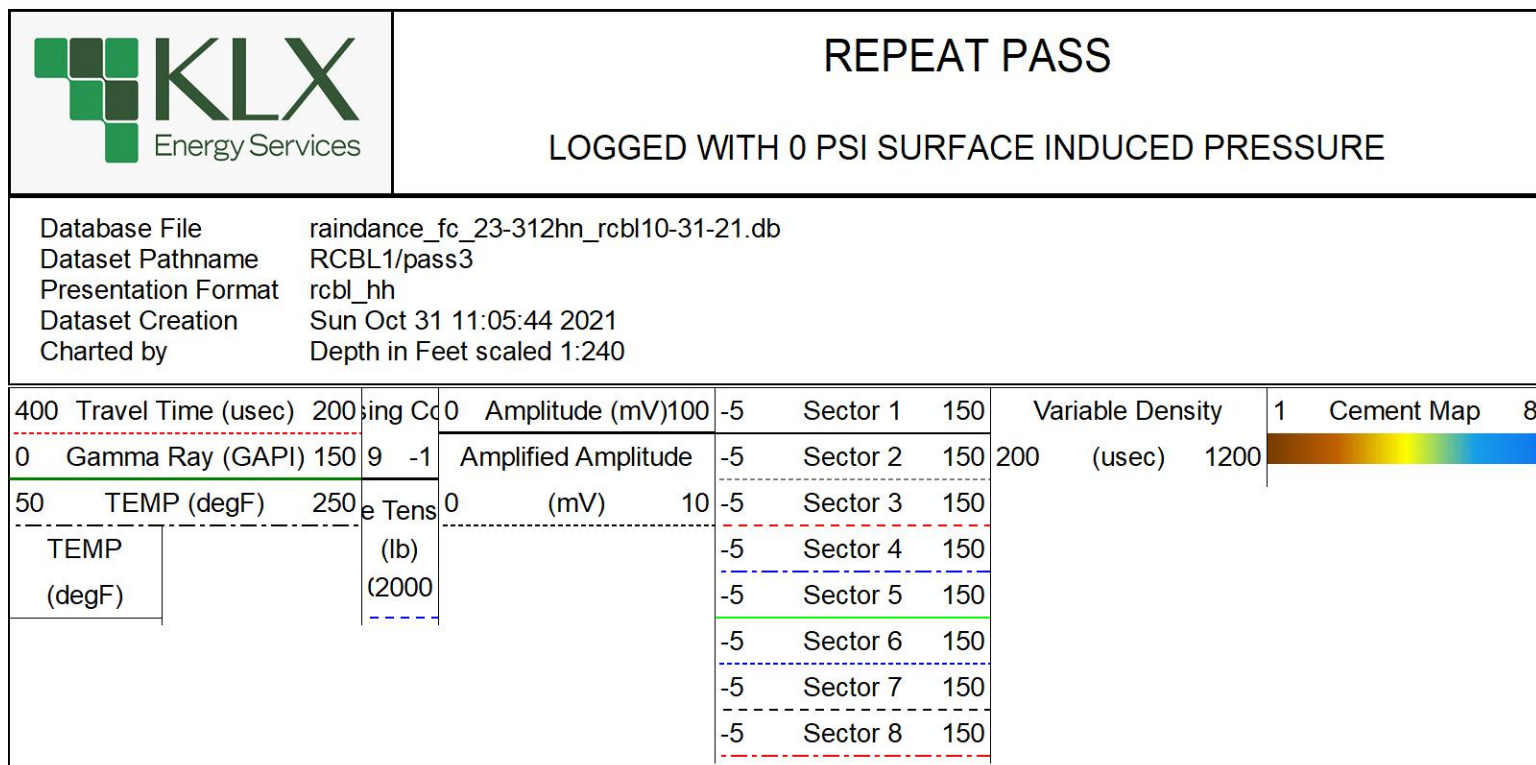
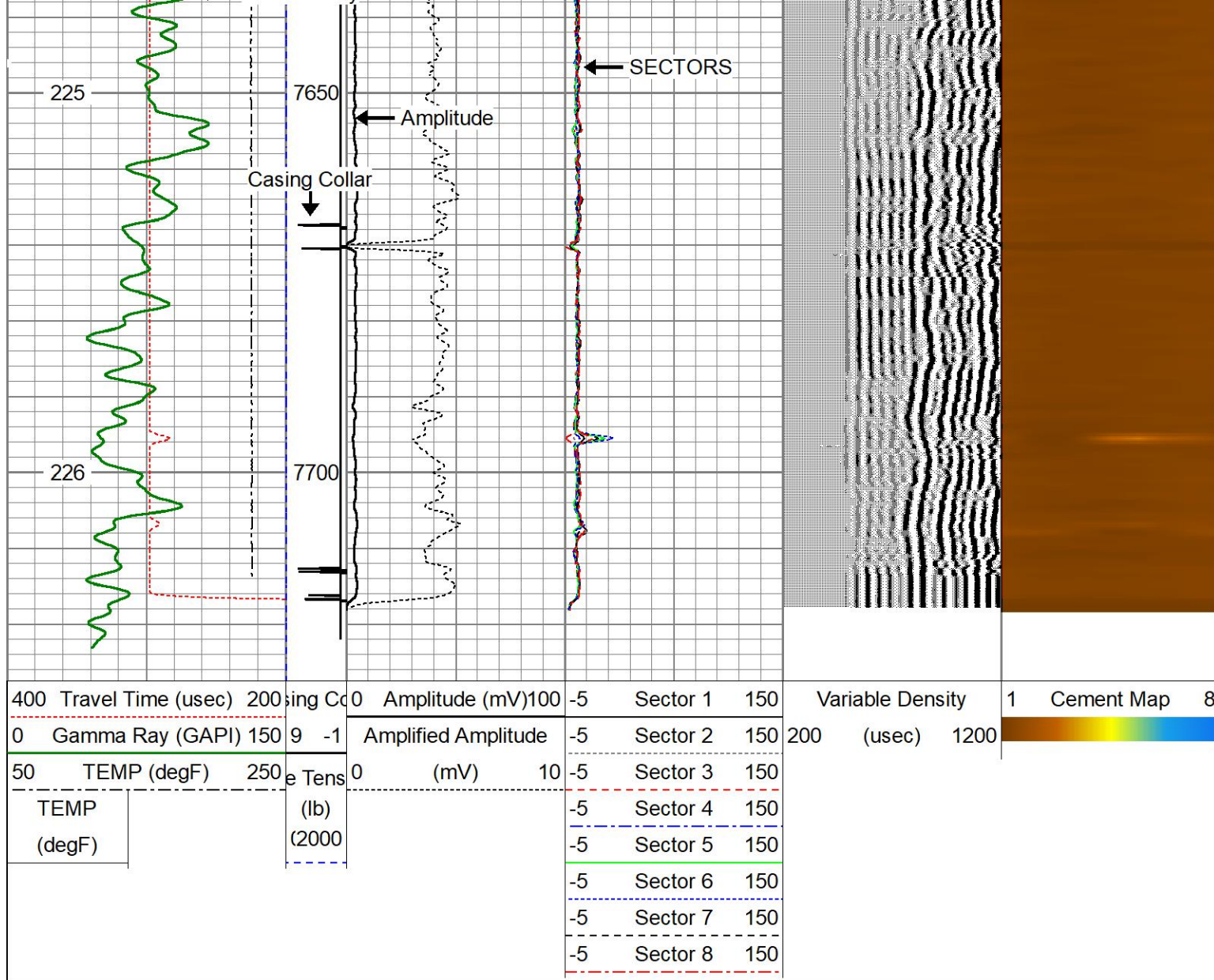


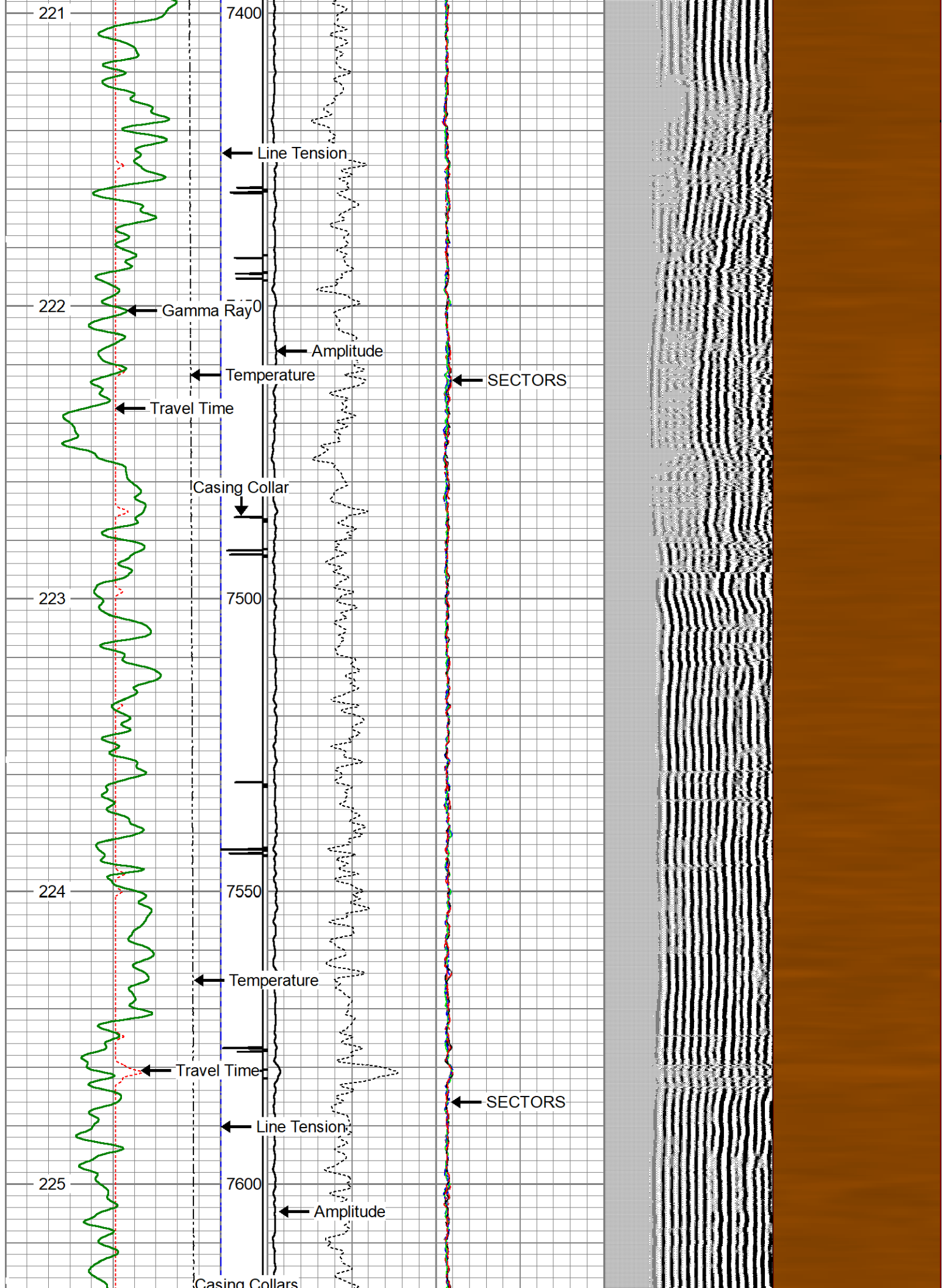


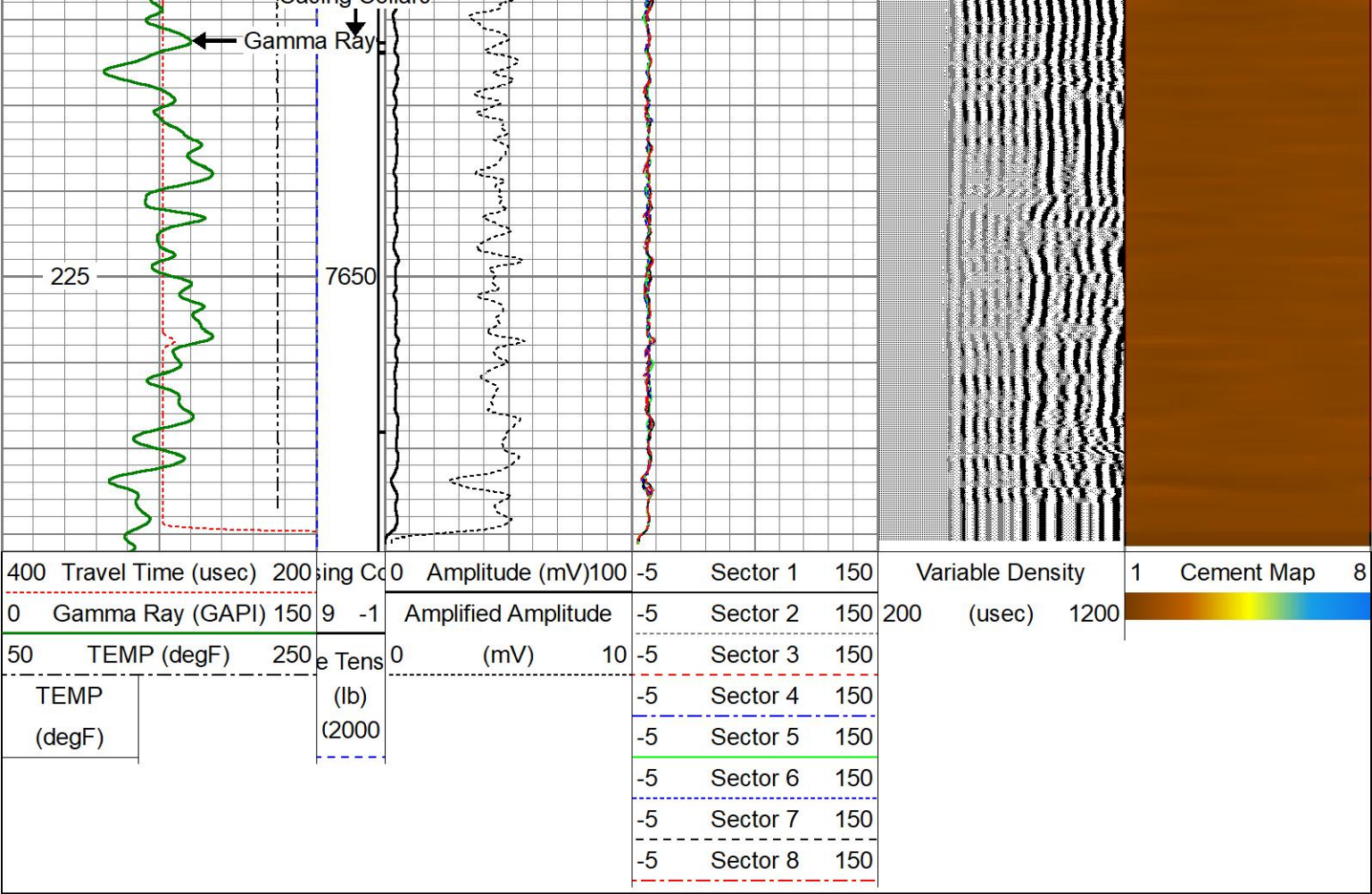












Calibration Report		
Database File	raindance_fc_23-312hn_rcbl10-31-21.db	
Dataset Pathname	RCBL1/pass5.2	
Dataset Creation	Sun Oct 31 12:38:43 2021	

Gamma Ray Calibration Report		
Serial Number:	080829	
Tool Model:	Probe275dig	
Performed:	Fri Oct 29 12:45:52 2021	
Calibrator Value:	1036.2	GAPI
Background Reading:	87.1	cps
Calibrator Reading:	1889.0	cps
Sensitivity:	0.5751	GAPI/cps



Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1409-41	
Tool Model:	Probe 2.75 Radii W/Temp	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1496.908	ft

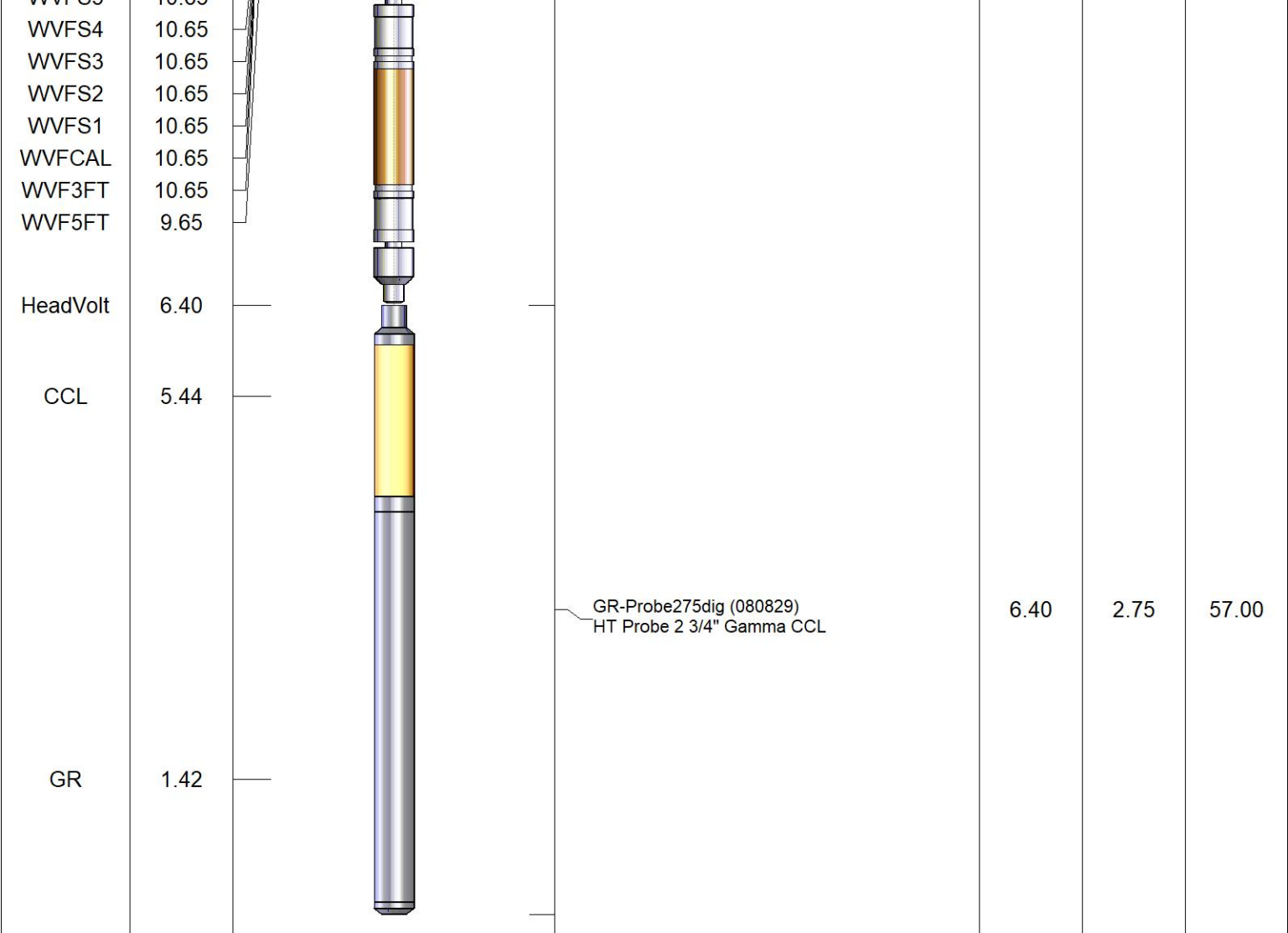
Master Calibration, performed (Derived):						
Raw (v)		Calibrated (mv)		Results		
Zero		Zero		Gain	Offset	
Cal		Cal				
3'	0.006	0.511	1.000	71.921	140.488	0.173

CAL	0.001	0.609				
5'	0.008	0.447	1.000	71.921	161.420	-0.253
SUM						
S1	0.007	0.485	0.000	100.000	209.237	-1.524
S2	0.010	0.479	0.000	100.000	213.229	-2.061
S3	0.011	0.496	0.000	100.000	206.405	-2.301
S4	0.011	0.514	0.000	100.000	198.646	-2.164
S5	0.012	0.523	0.000	100.000	195.500	-2.316
S6	0.012	0.529	0.000	100.000	193.269	-2.313
S7	0.011	0.523	0.000	100.000	195.240	-2.175
S8	0.008	0.507	0.000	100.000	200.455	-1.677


Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.609	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)
Temp	12.88		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
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					
WVES5	10.65					



Dataset:	raindance_fc_23-312hn_rcbl10-31-21.db: field/well/RCBL1/pass5.2
Total length:	16.60 ft
Total weight:	152.00 lb
O.D.:	2.75 in

	Company	GREAT WESTERN OIL & GAS			
	Well	RAINDANCE FC 23-312HN			
	Field	WATTENBERG			
	County	WELD			
	State	COLORADO		Country	USA