



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

Company	GREAT WESTERN OIL & GAS		
Well	RAINDANCE FC 23-289HN		
Field	WATTENBERG		
County	WELD	State	COLORADO
Location:	AP1 # : 05-123-51585		Other Services
	40.462982 / -104.927314		N/A
Permanent Datum	SEC 30	TWP 6N	RGE 67W
Log Measured From	KB	Elevation	4788'
Drilling Measured From	KB	Elevation	K.B. 4808'
			D.F. 4788'
			G.L. 4788'

Date	31-OCT-2021
Run Number	ONE
Depth Driller	20837'
Depth Logger	7990'
Bottom Logged Interval	7989'
Top Log Interval	SURFACE
Open Hole Size	-
Type Fluid	WATER
Density / Viscosity	-
Max. Recorded Temp.	227°F
Estimated Cement Top	-
Time Well Ready	12:40
Time Logger on Bottom	13:40
Equipment Number	80
Location	PLATTEVILLE, CO
Recorded By	C. WILKINS
Witnessed By	D. POZAS
Borehole Record	
Run Number	Bit
	From
	To
	Size
	Weight
	From
	To
Tubing Record	
Casing Record	Size
Surface String	Wgt/Ft
Prot. String	40#
Production String	20#
Liner	20837'

<<< 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 6941' - 6953'


THANK YOU FOR USING KLX ENERGY SERVICES

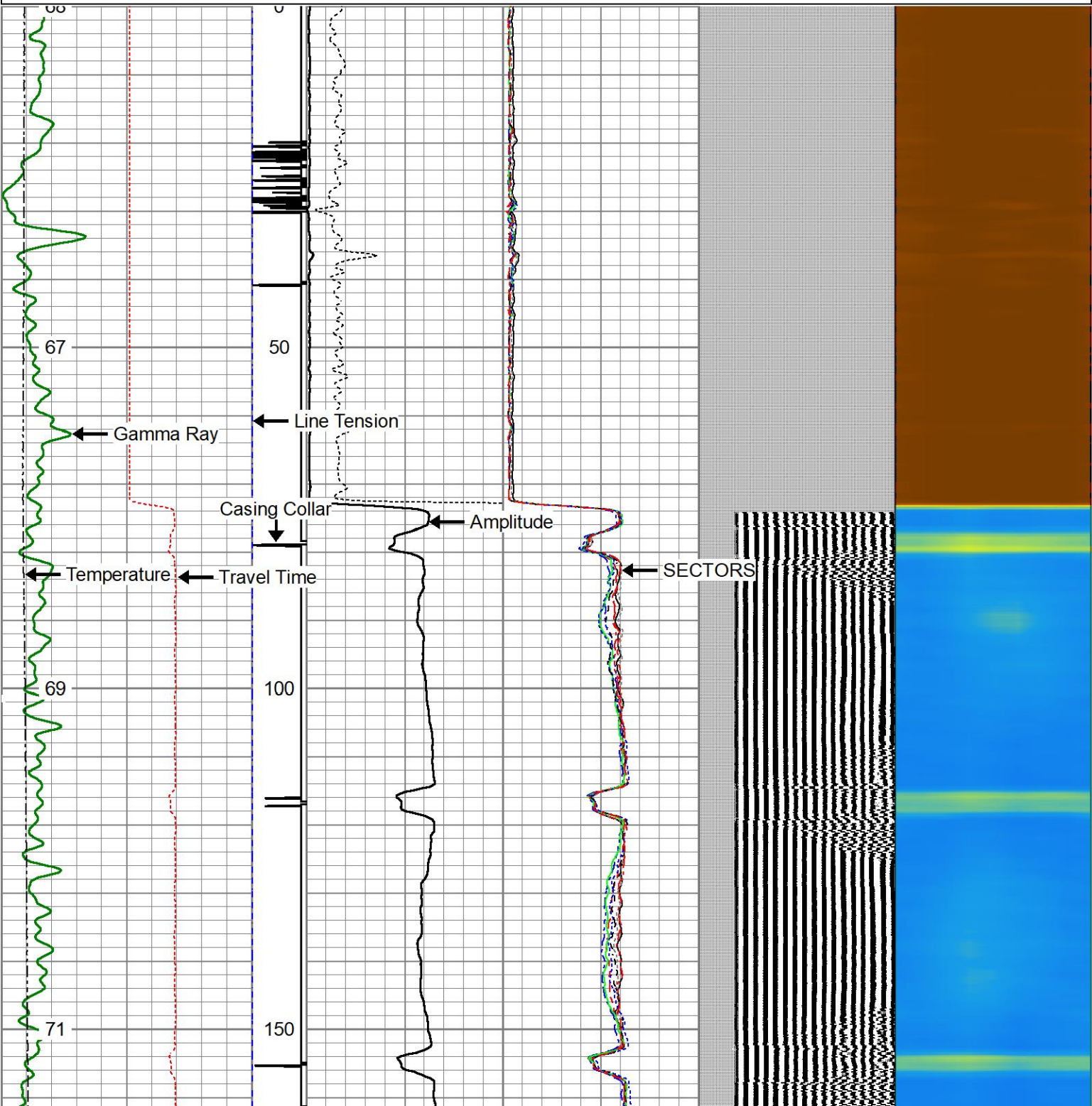


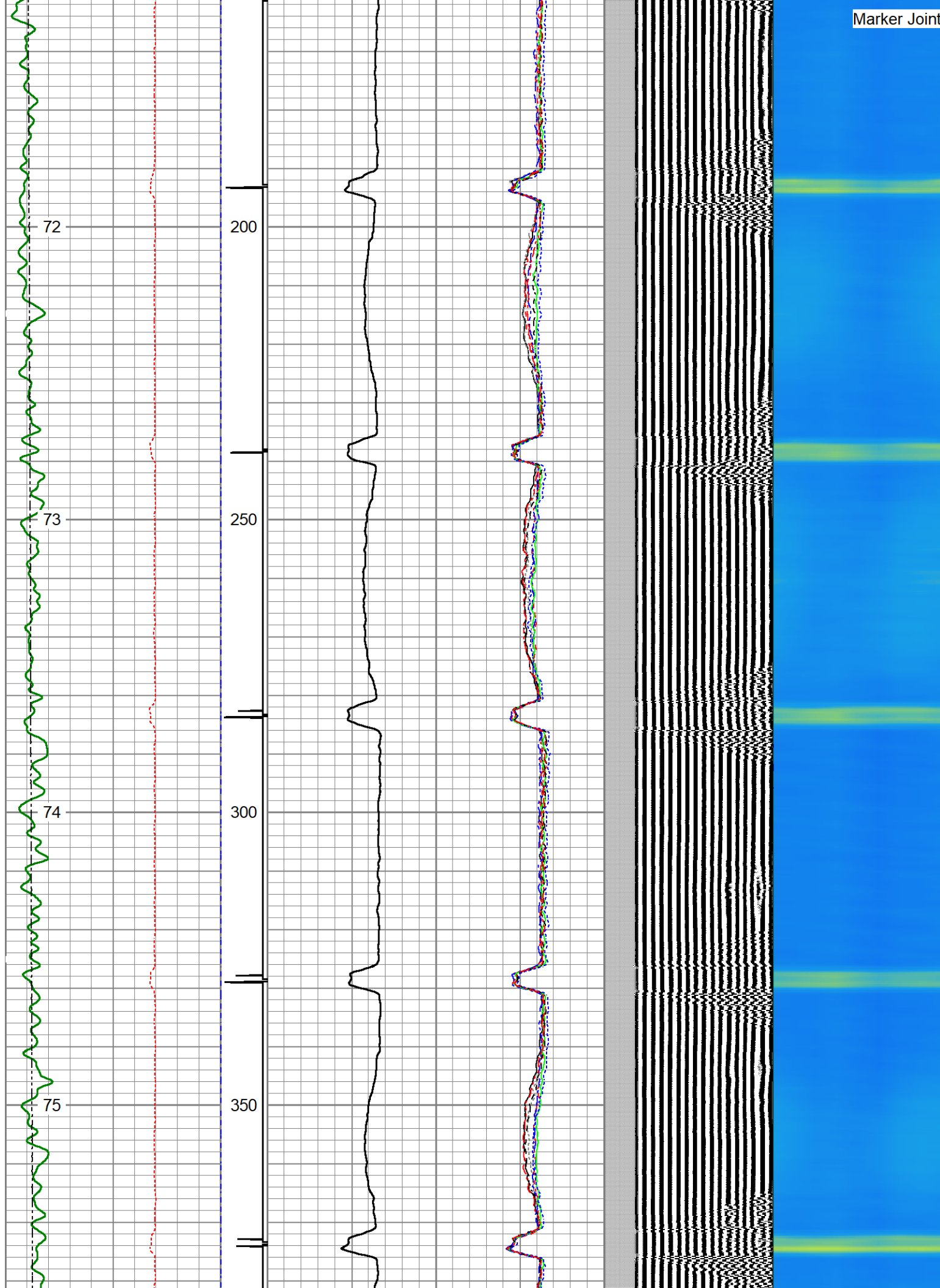
MAIN PASS

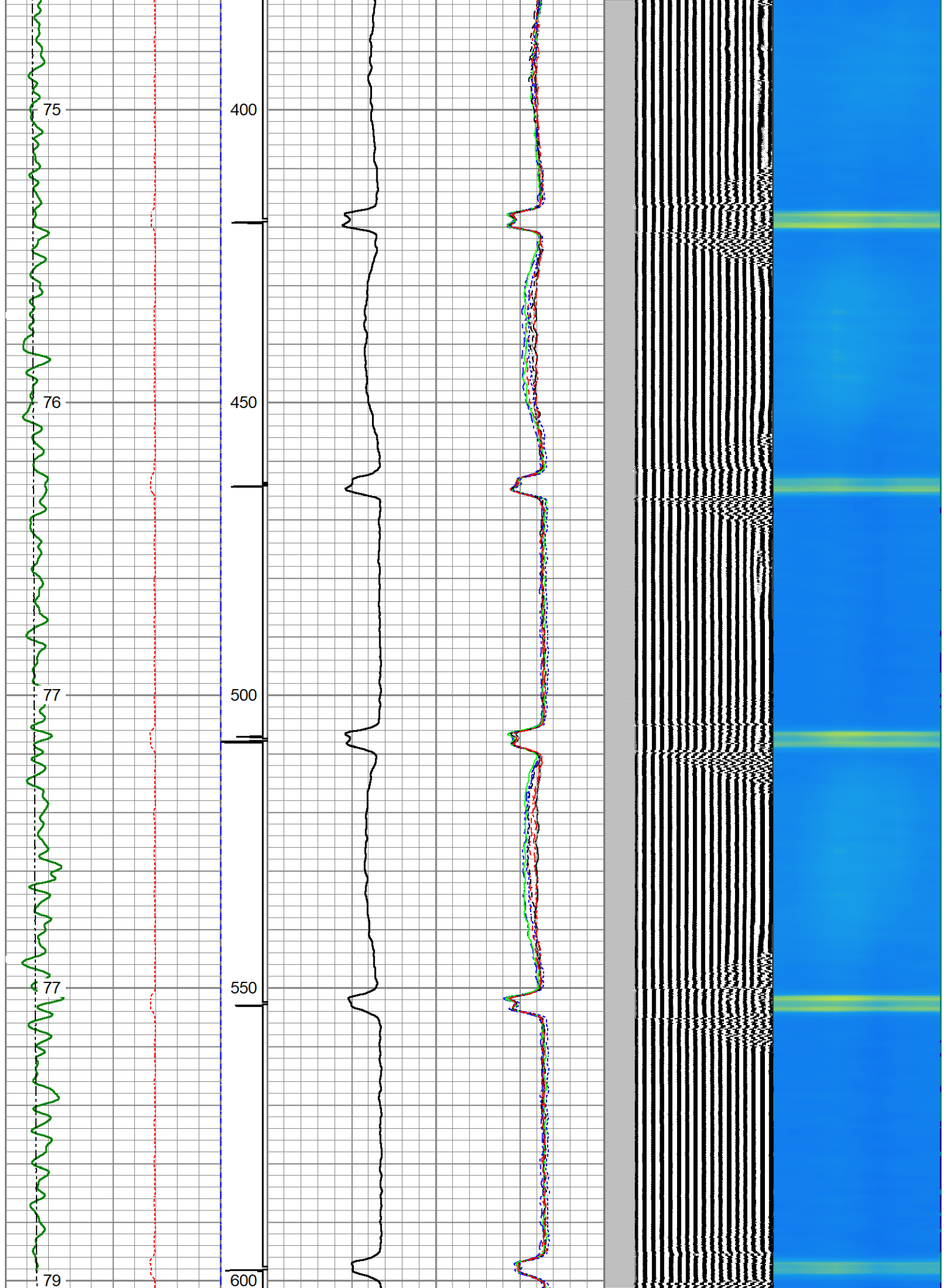
LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

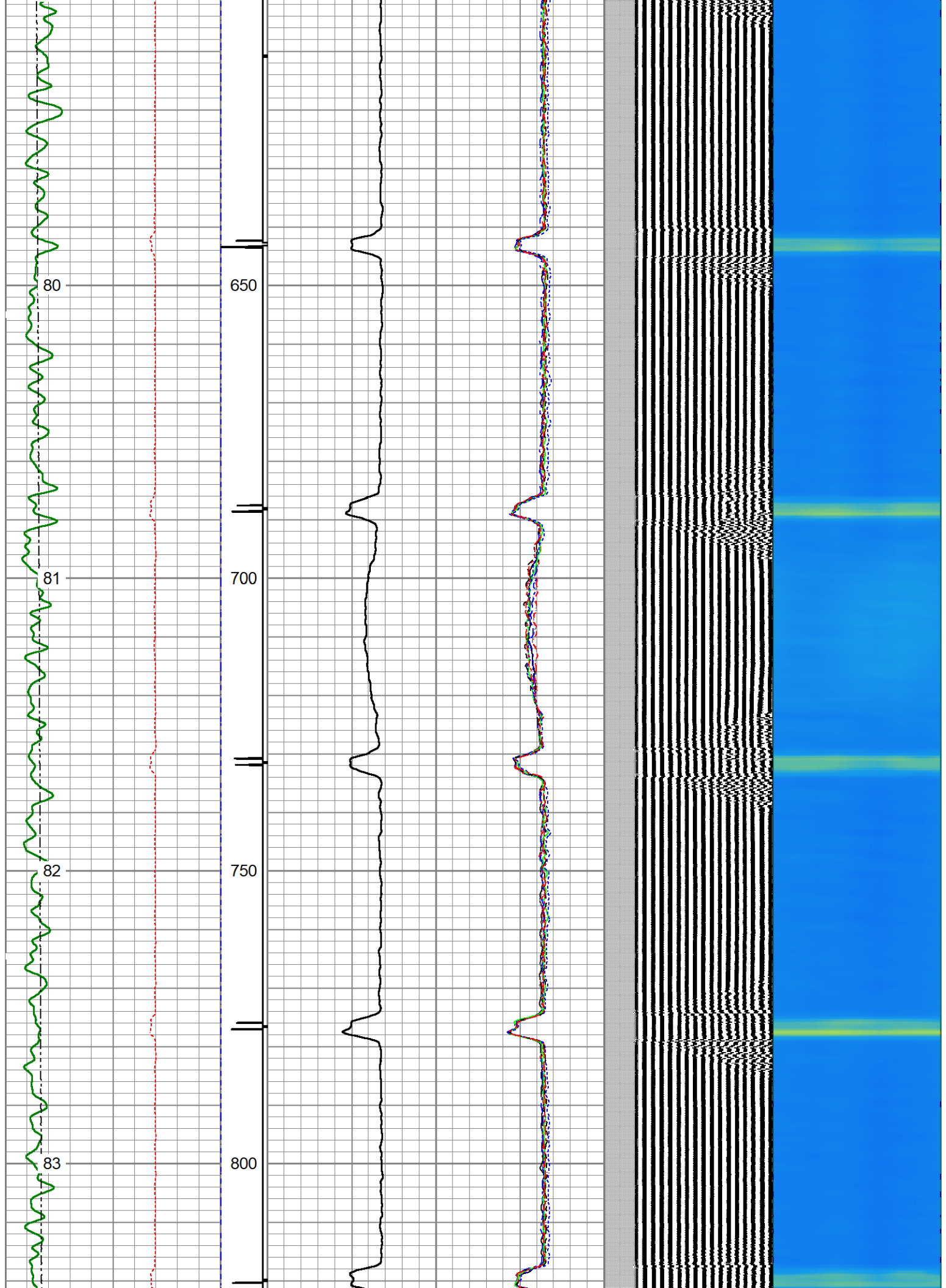
Database File	raindance_fc_23-289hn_rcbl10-31-21.db
Dataset Pathname	RCBL1/pass13
Presentation Format	rcbl_hh
Dataset Creation	Sun Oct 31 13:46:56 2021
Charted by	Depth in Feet scaled 1:240

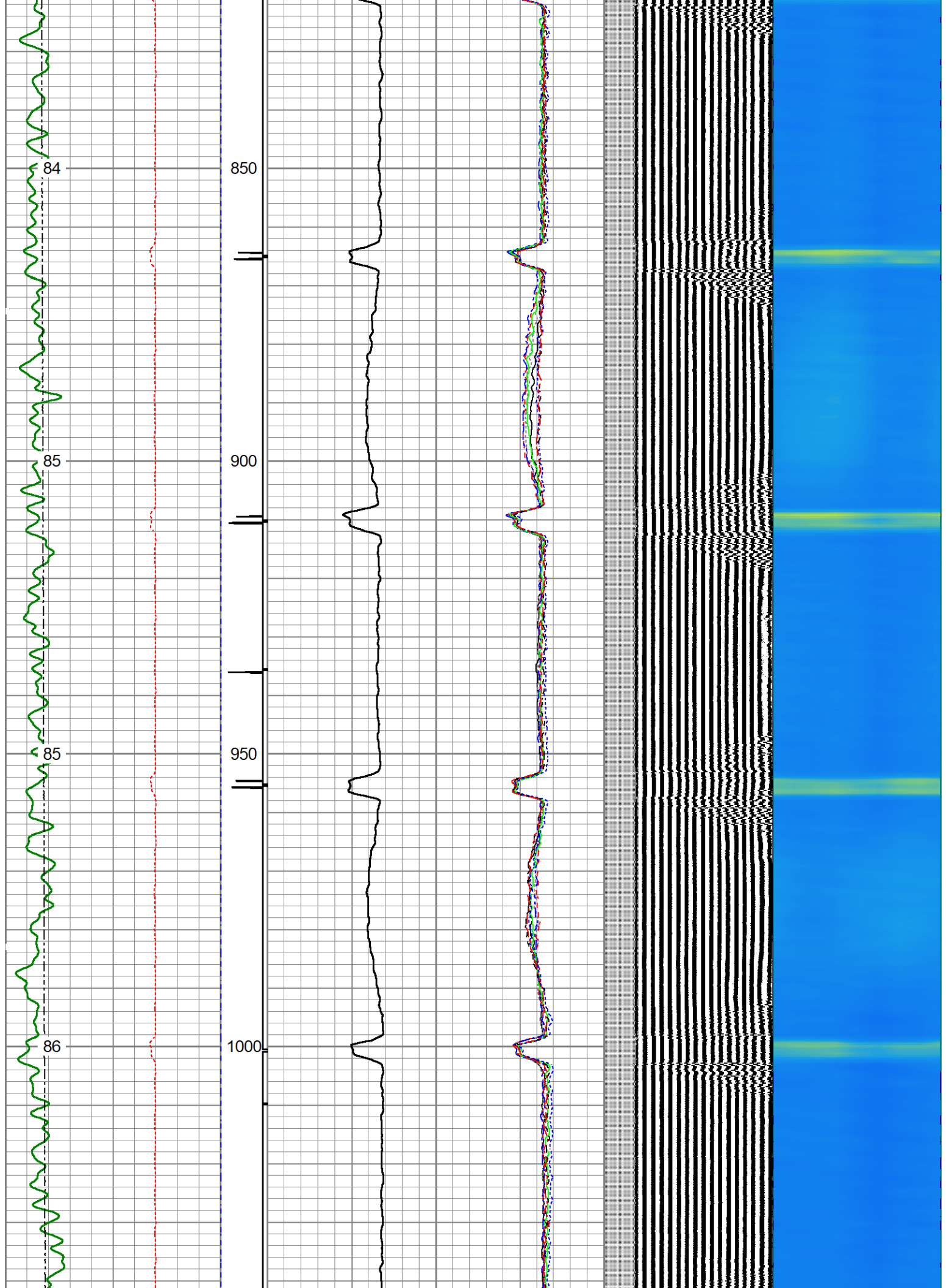
400	Travel Time (usec)	200	ing Co	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density		1	Cement Map	8
0	Gamma Ray (GAPI)	150	9	-1	Amplified Amplitude		-5	Sector 2	150	200	(usec)	1200		
50	TEMP (degF)	250	e Tens	0	(mV)	10	-5	Sector 3	150					
TEMP			(lb				-5	Sector 4	150					
(degF)			(2000				-5	Sector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

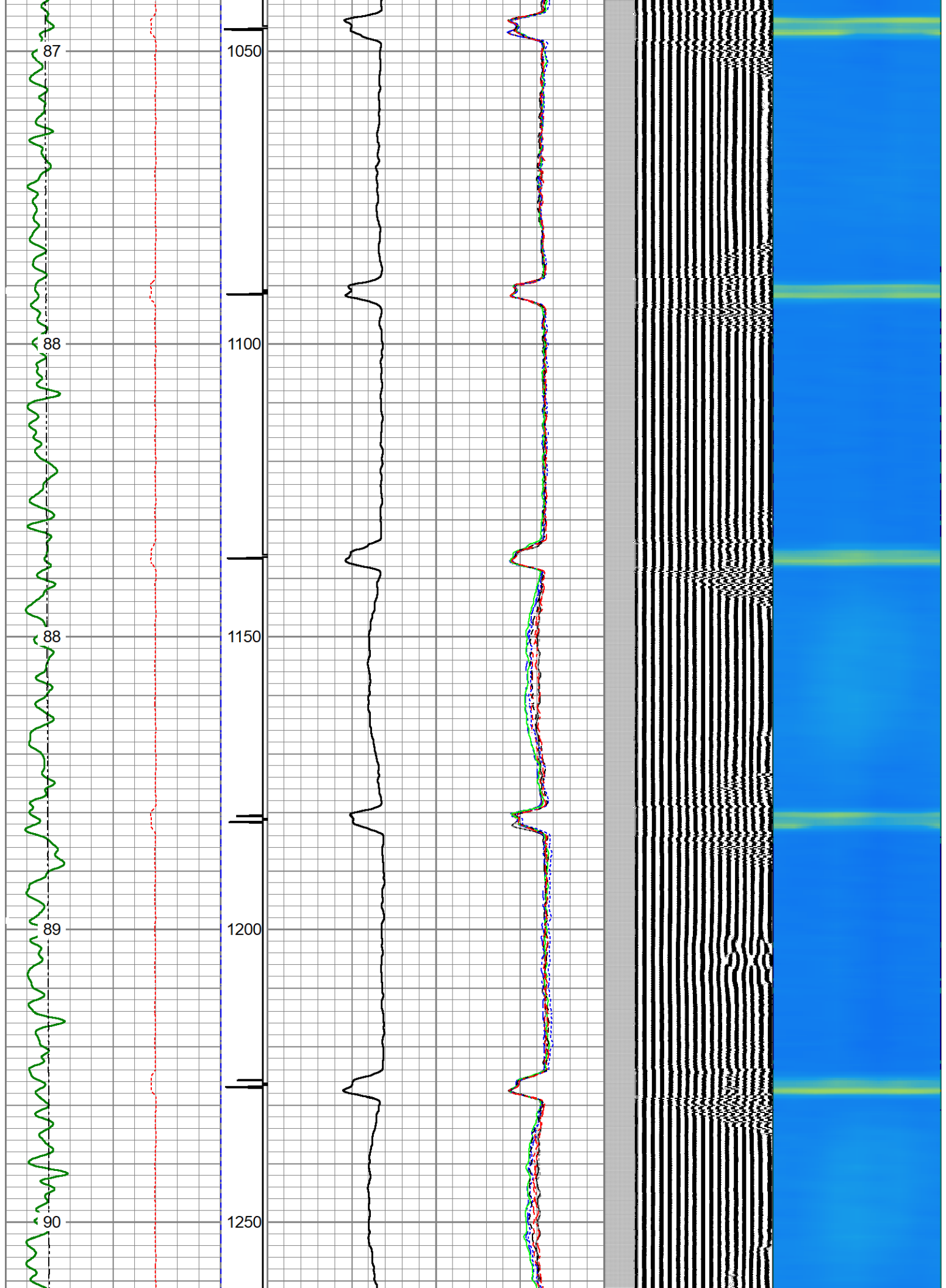


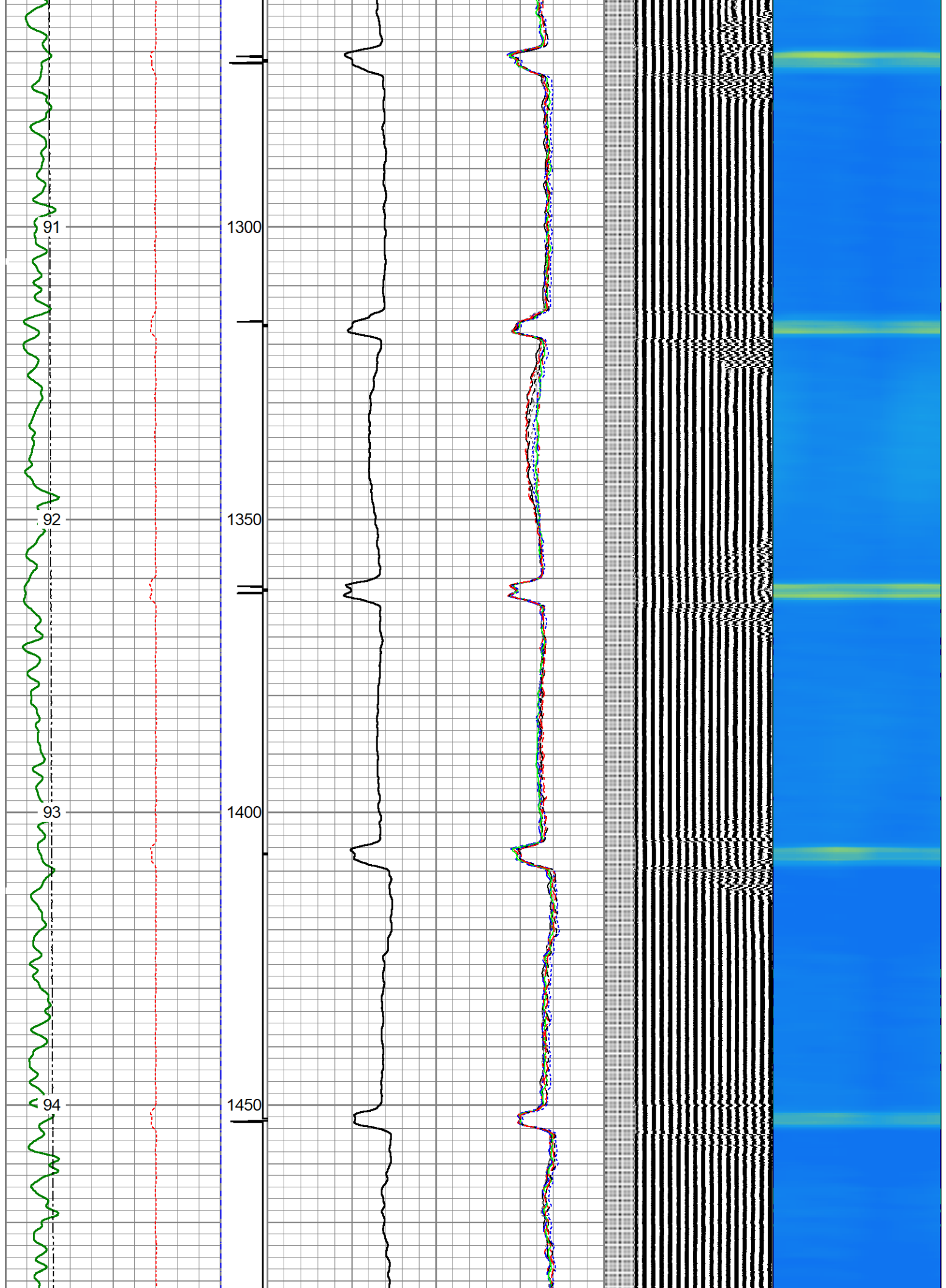


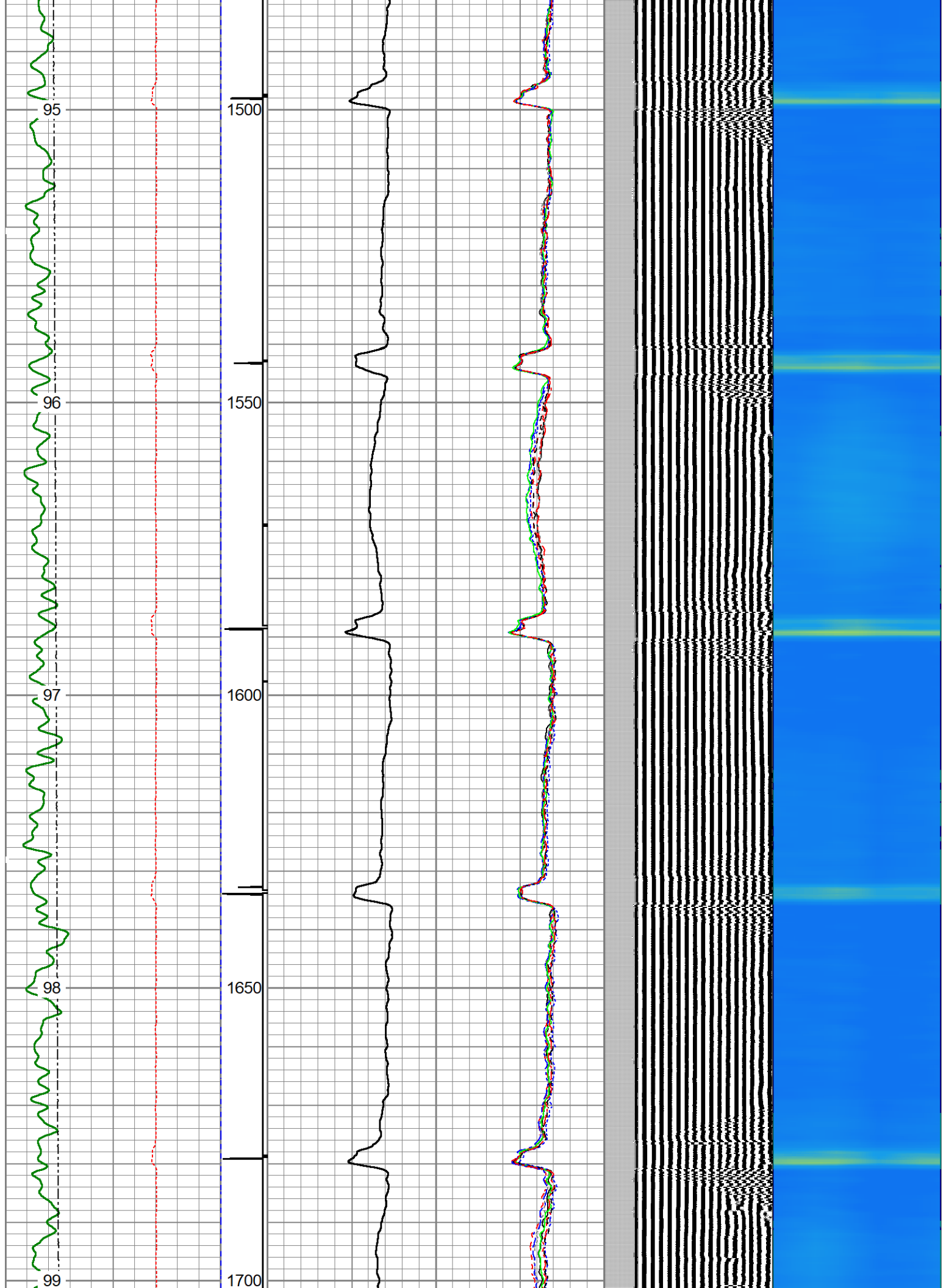


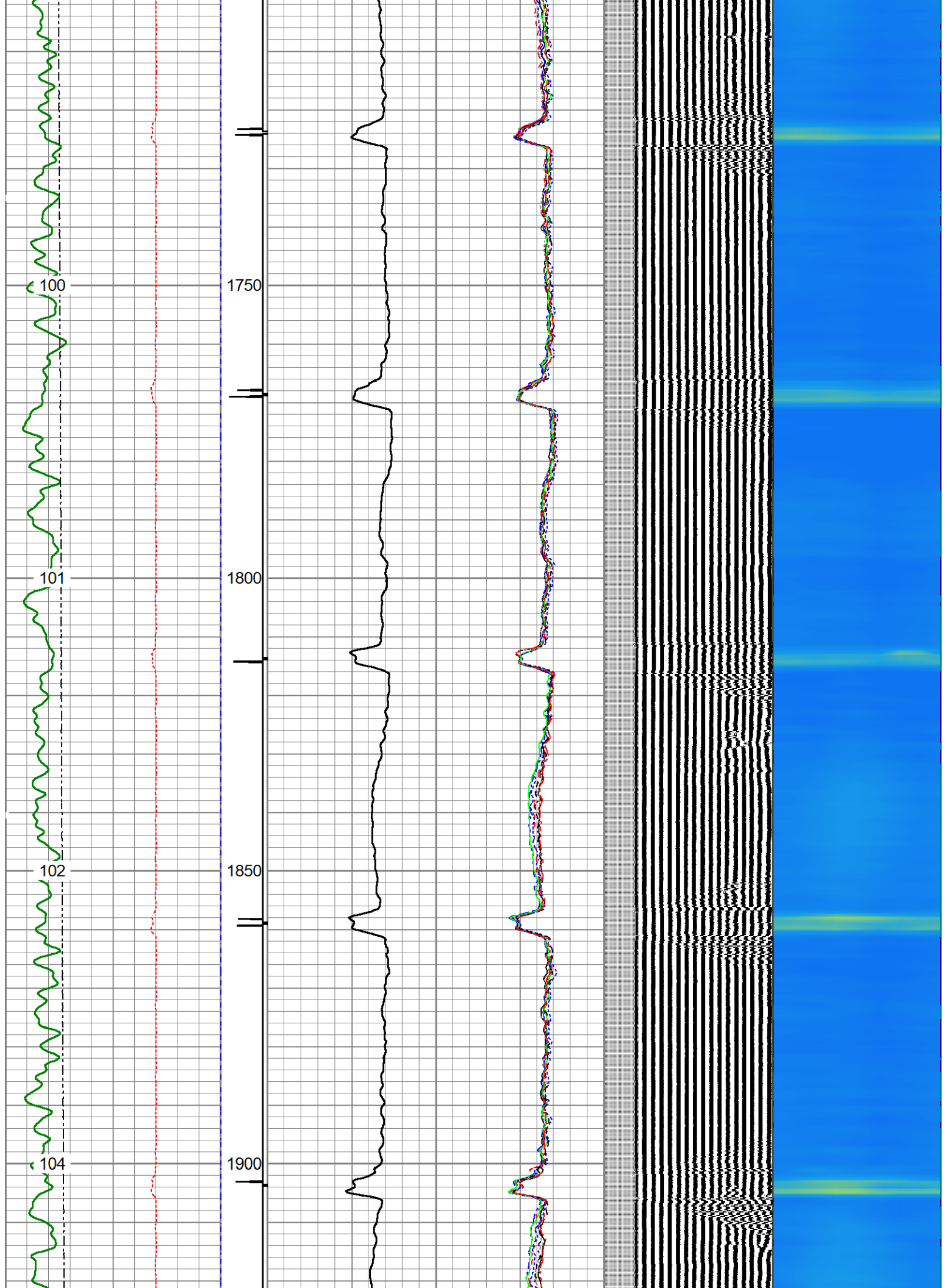


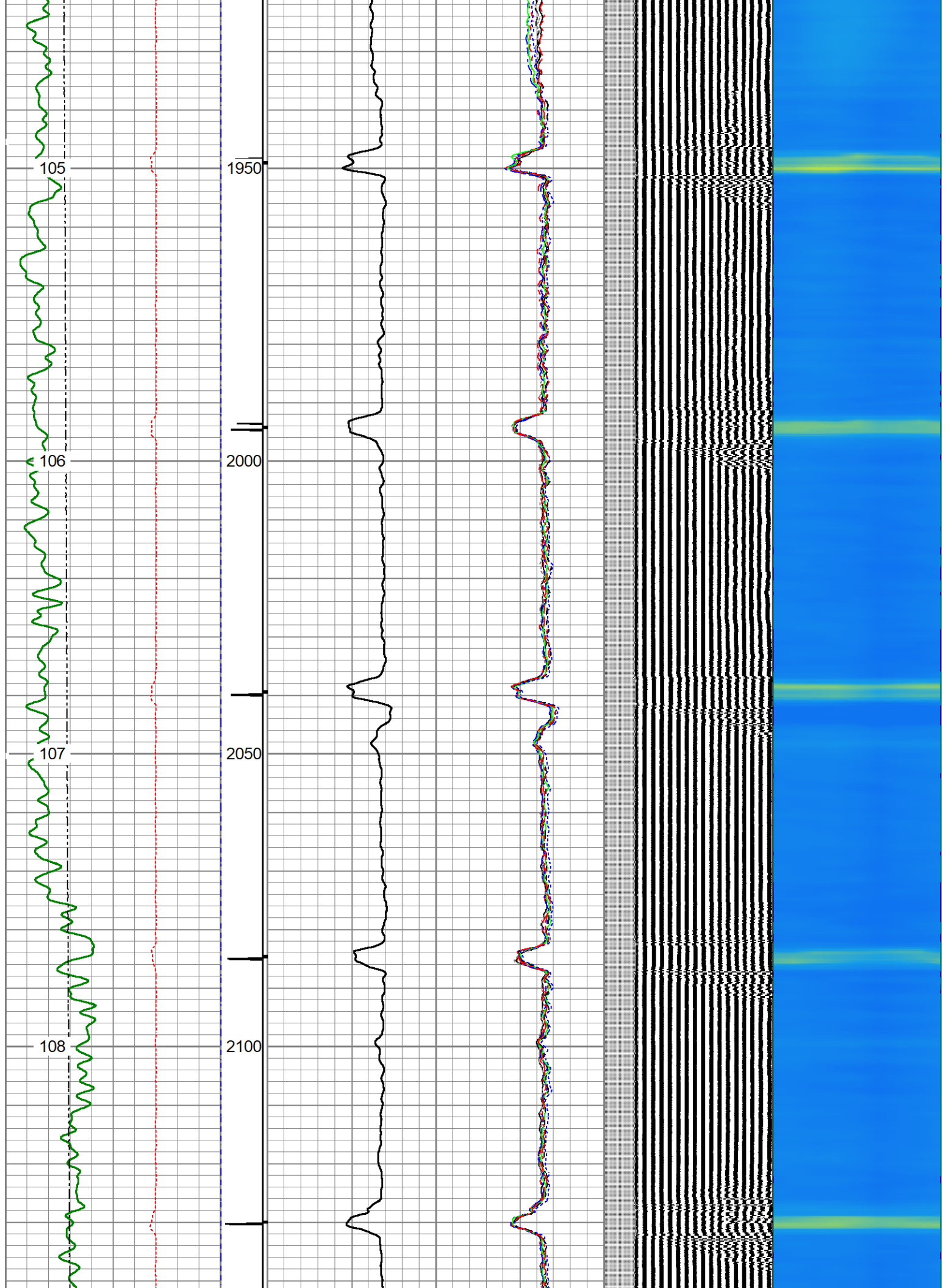


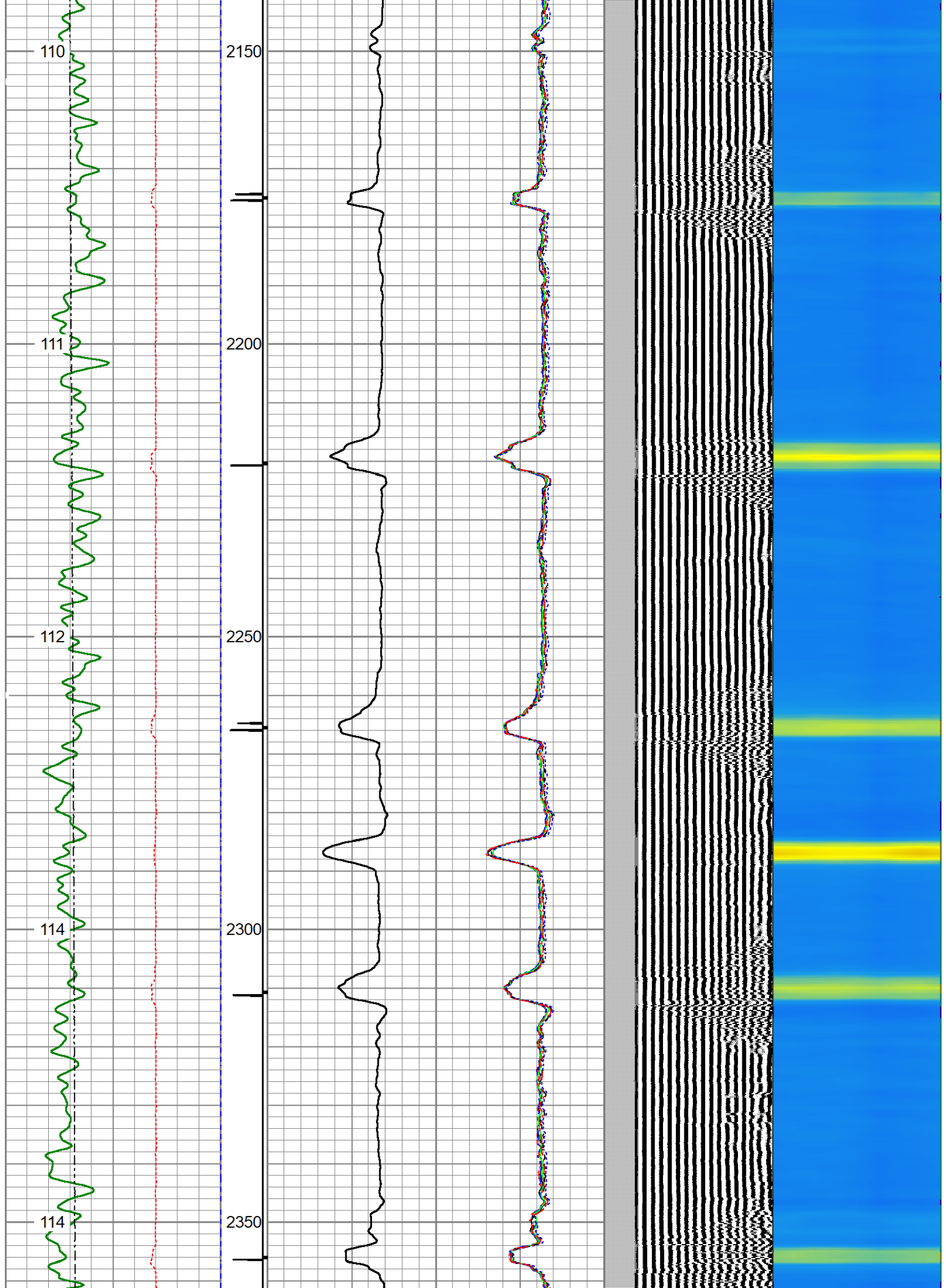


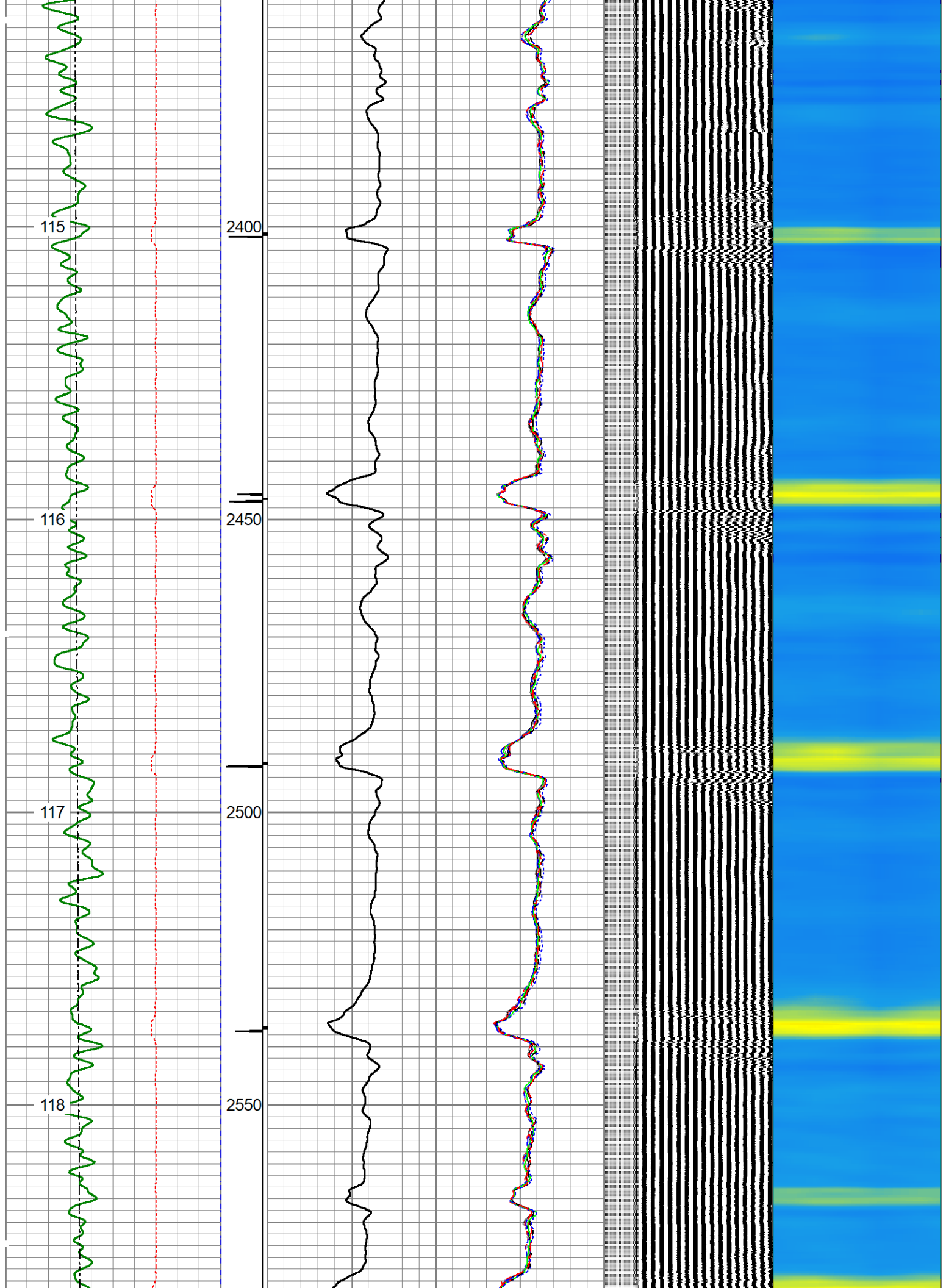


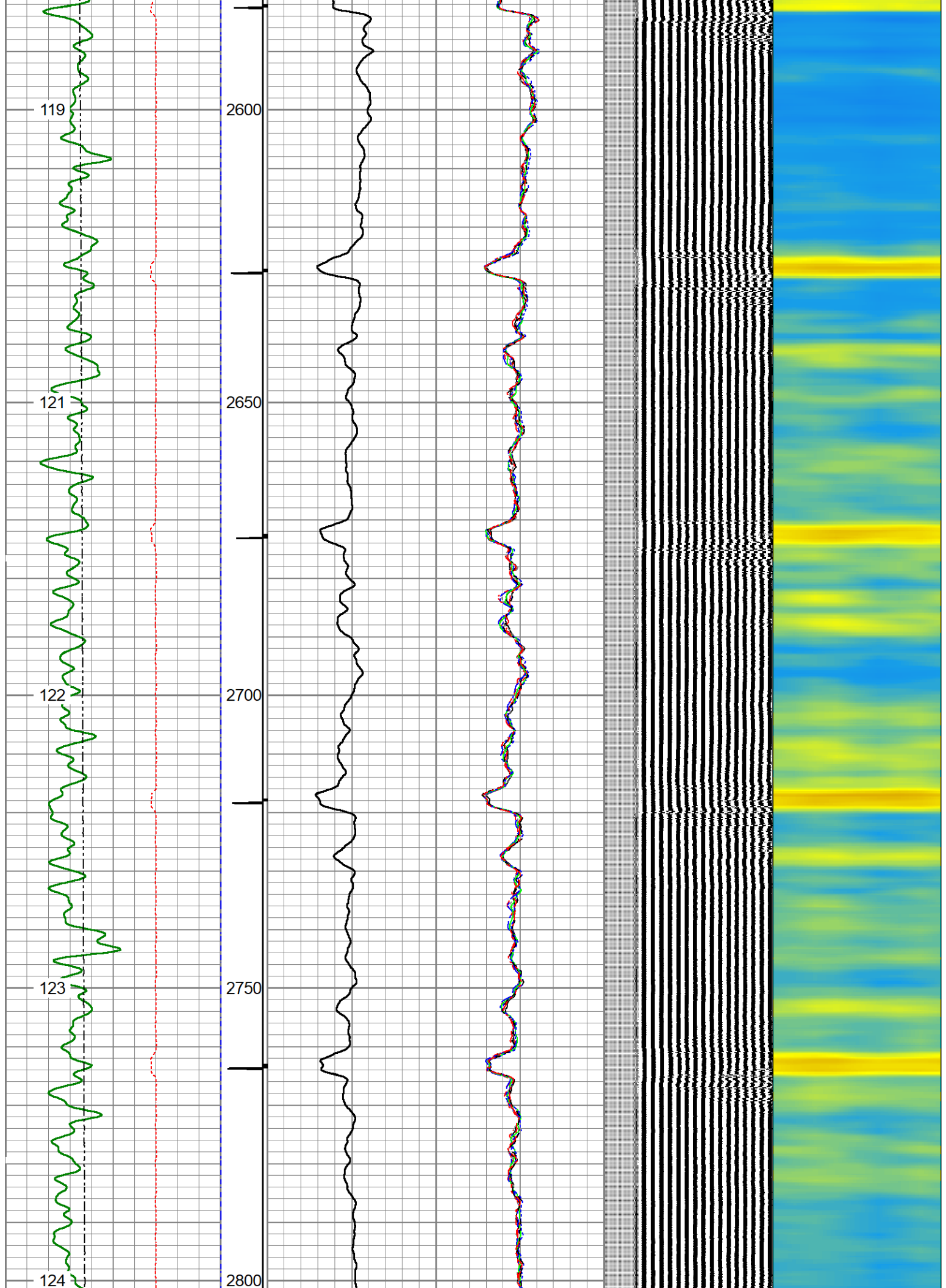


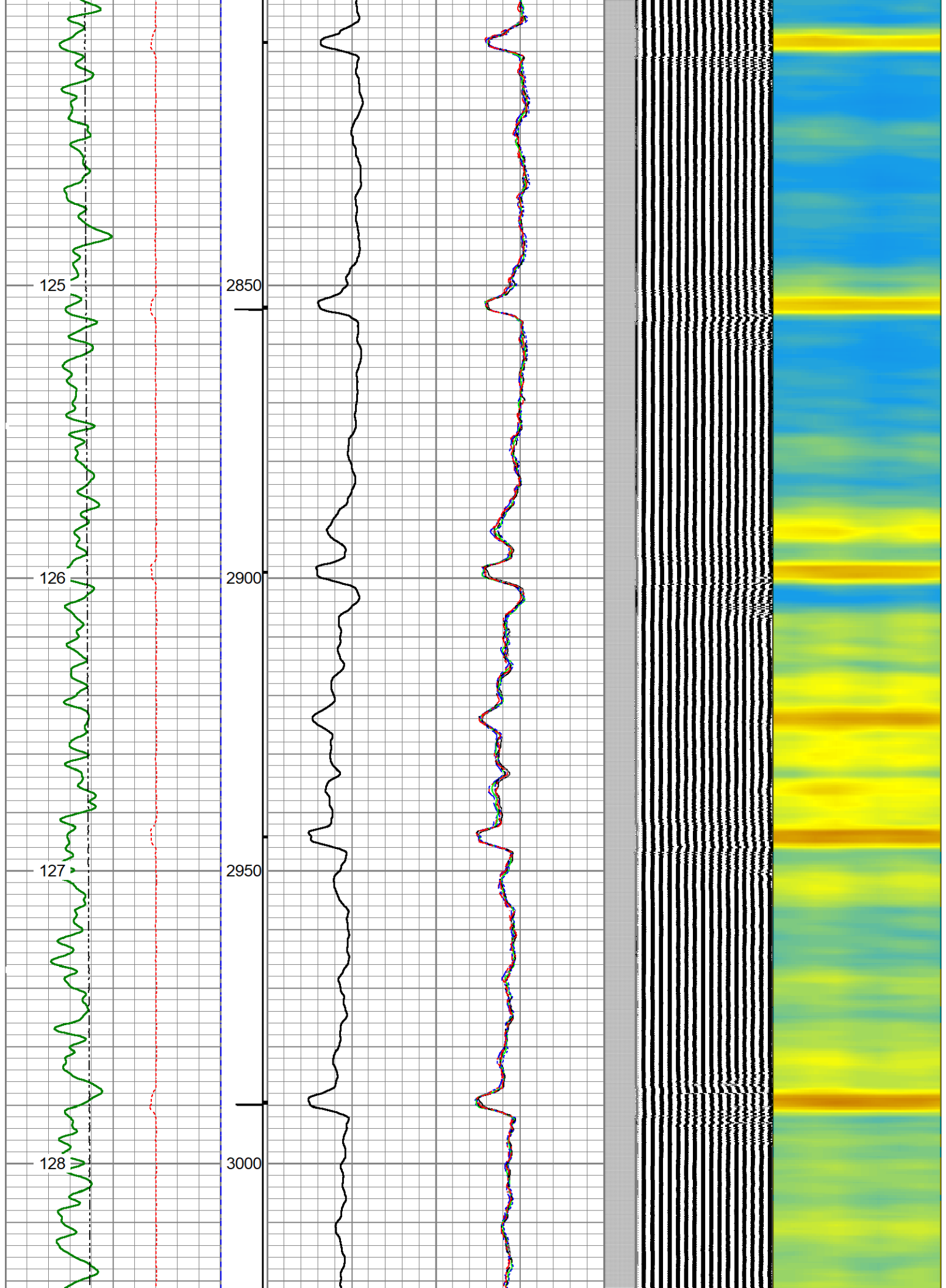


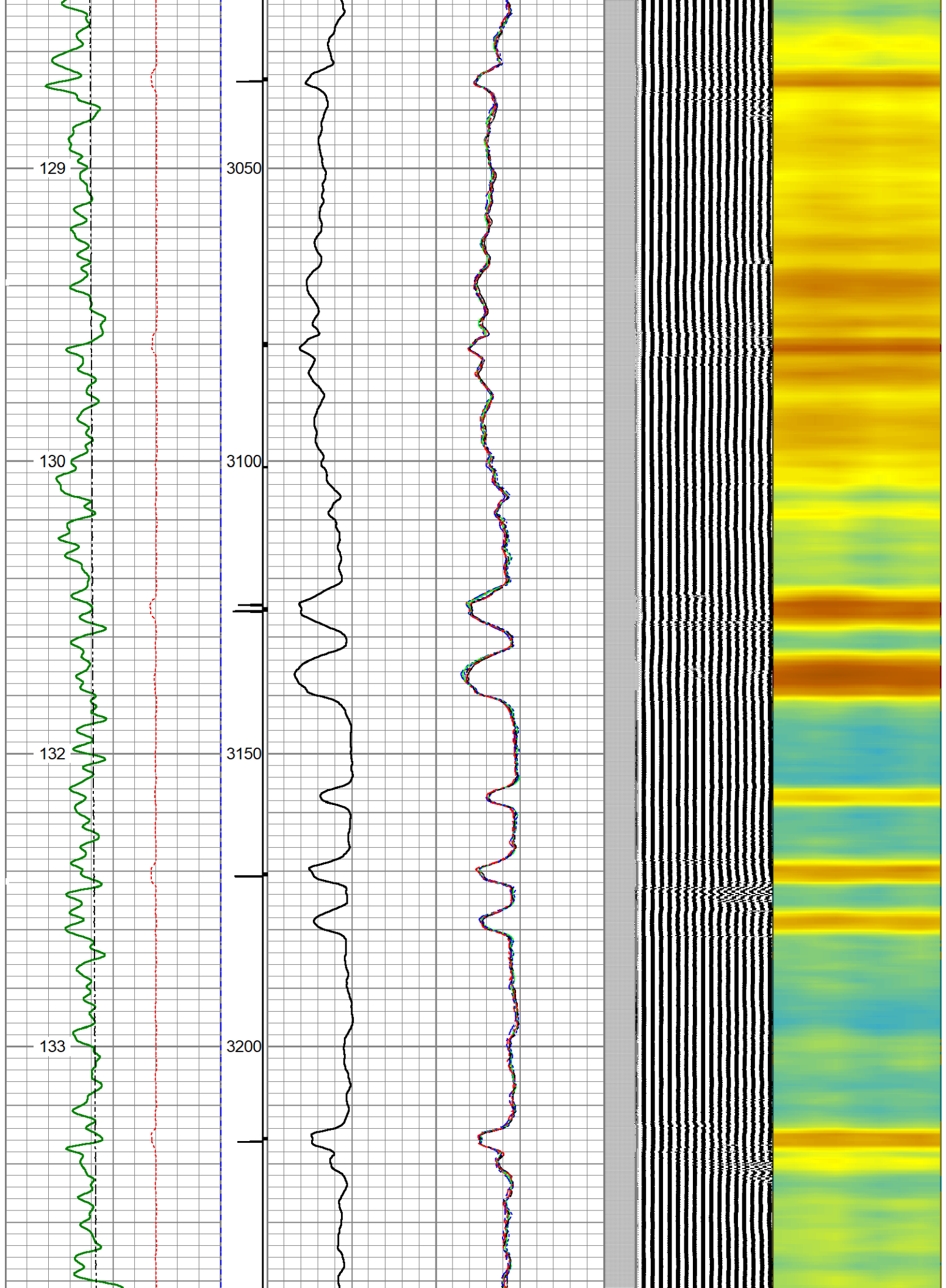


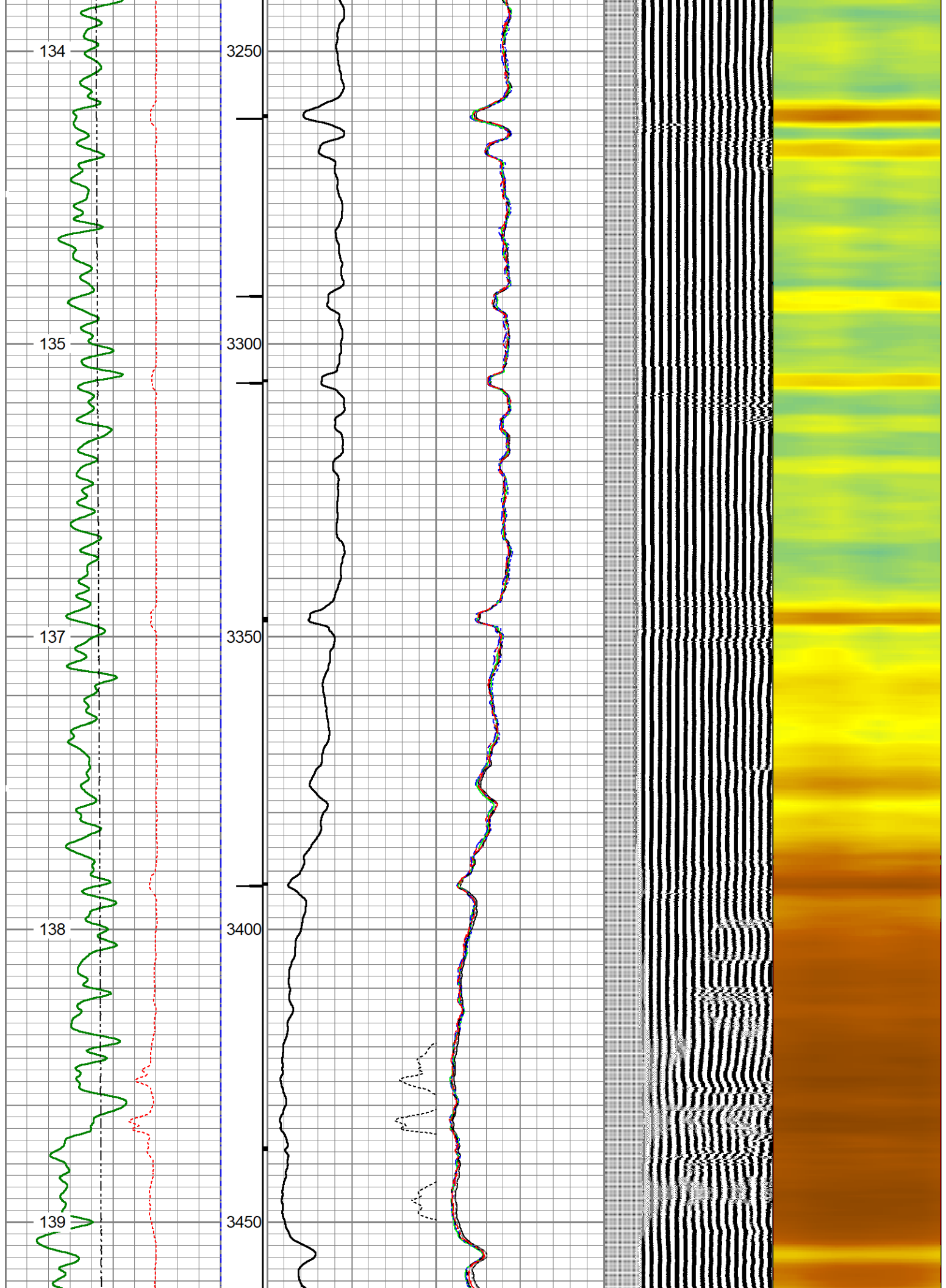


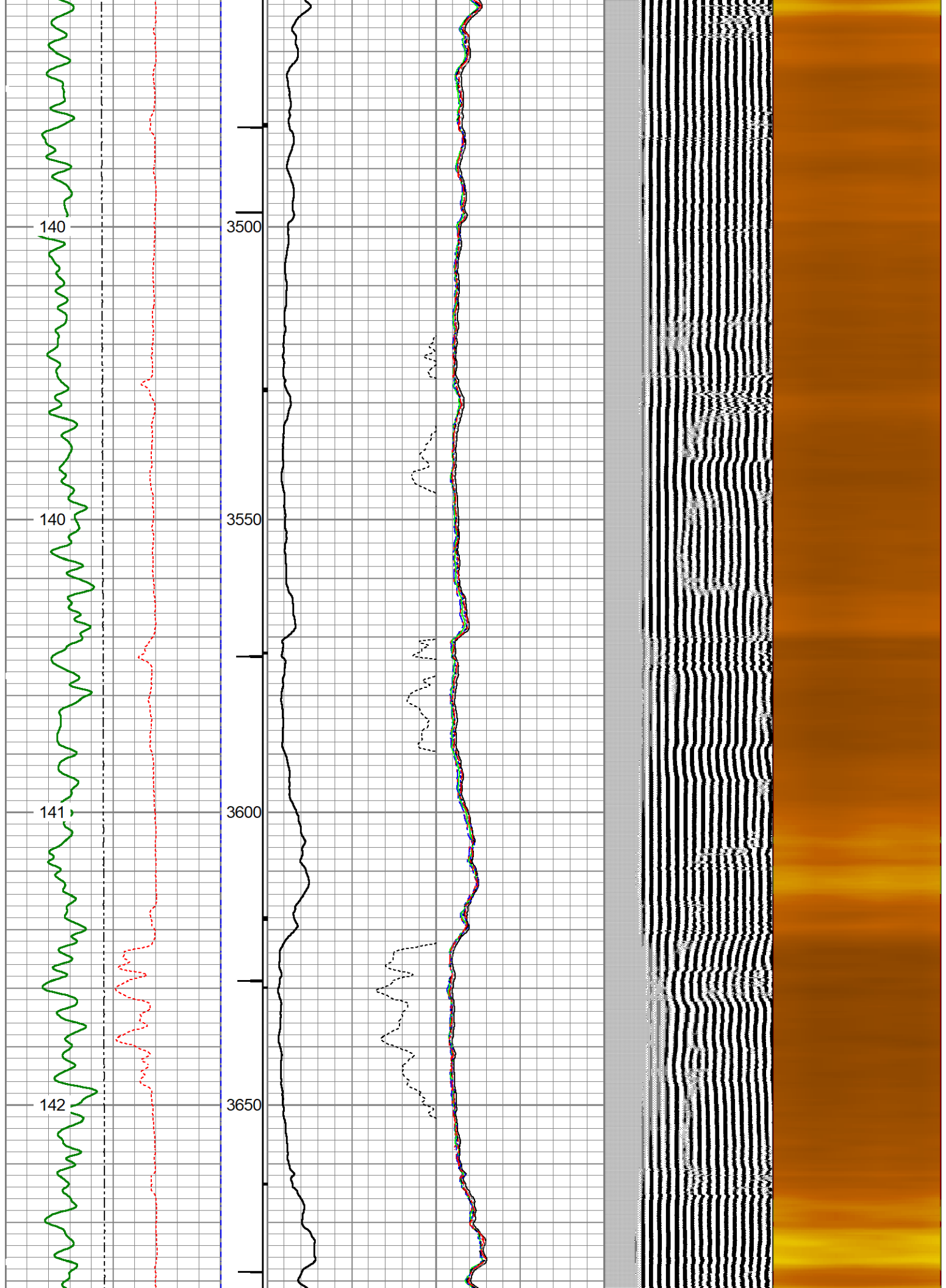


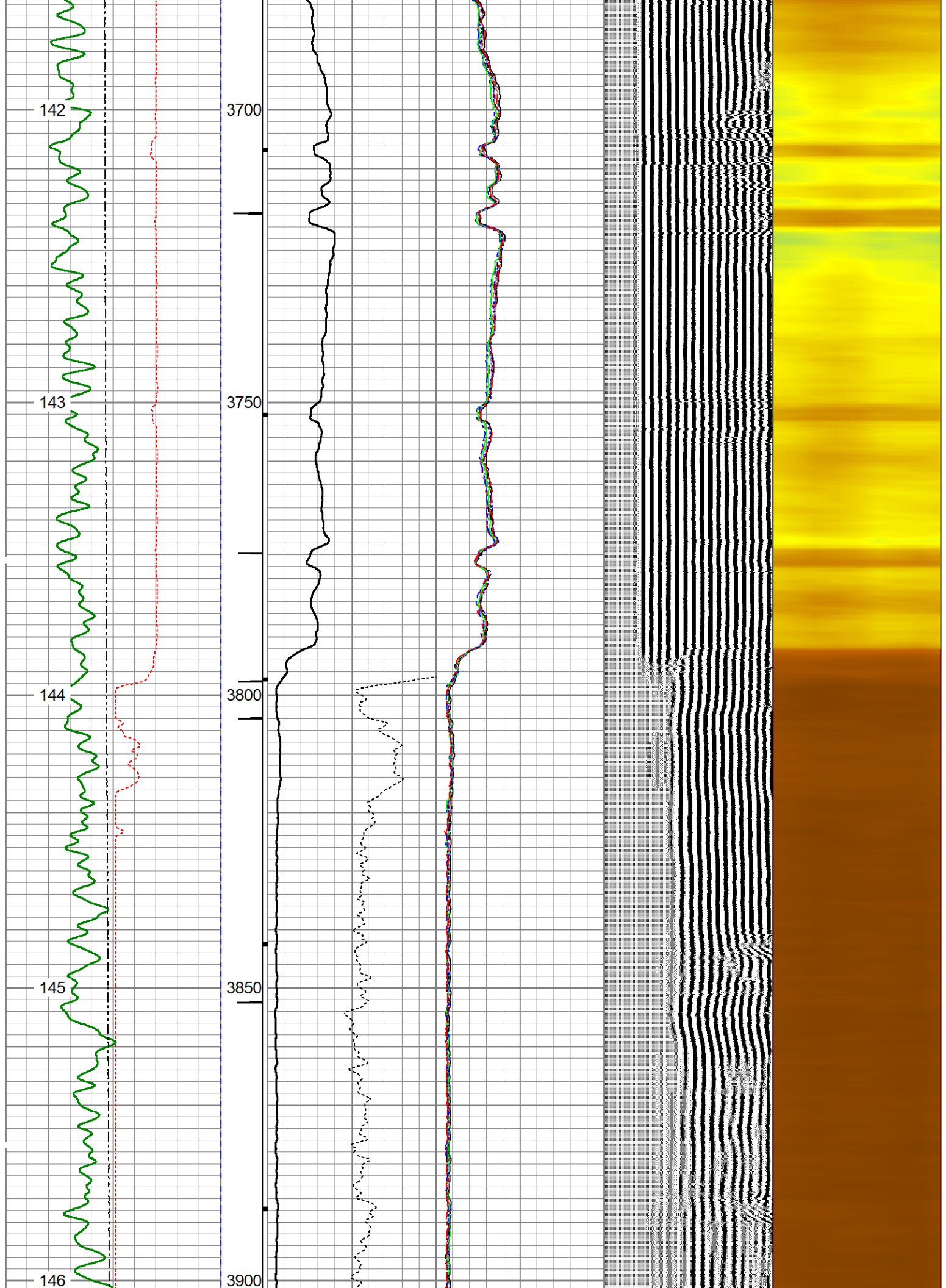


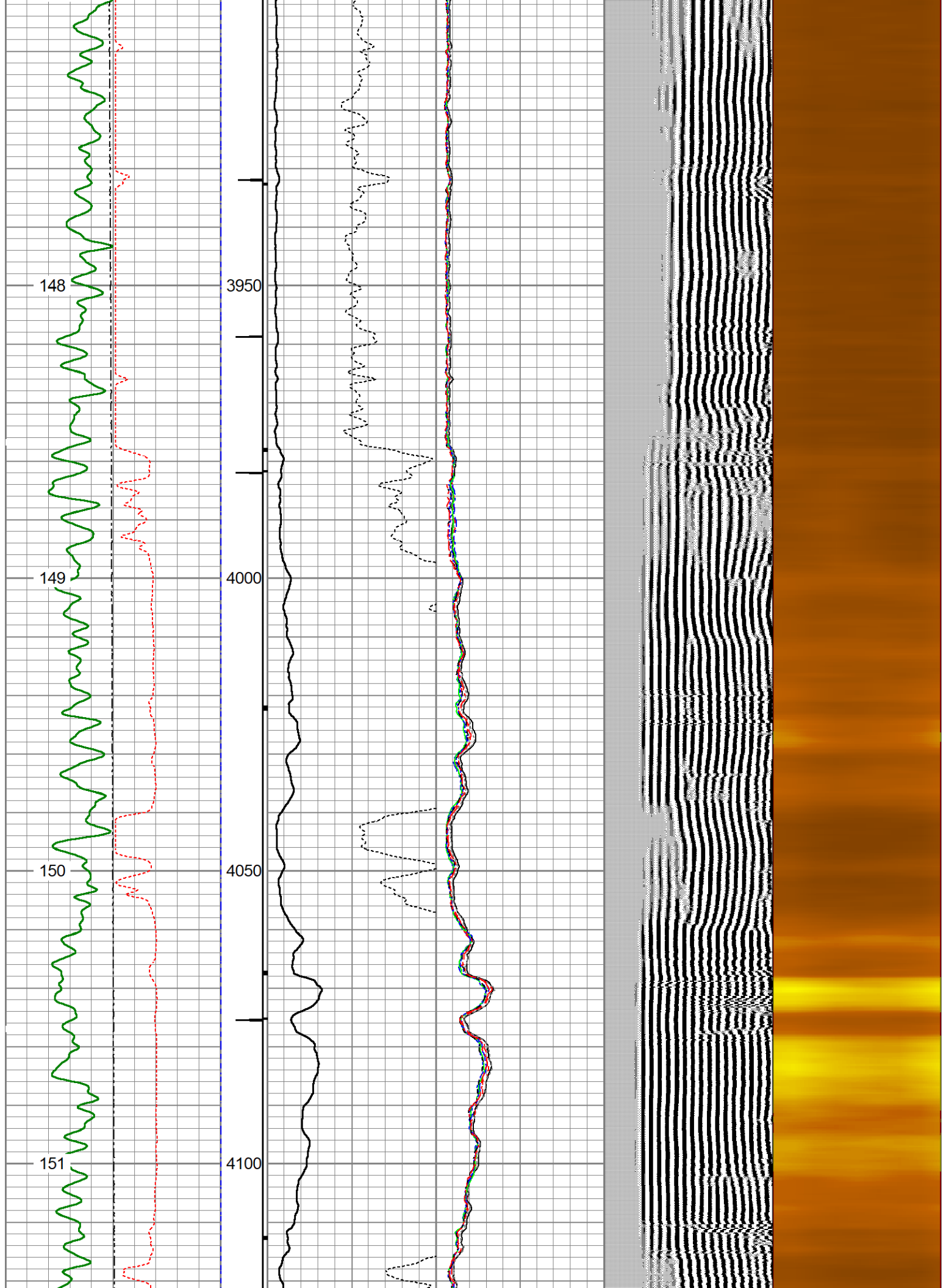


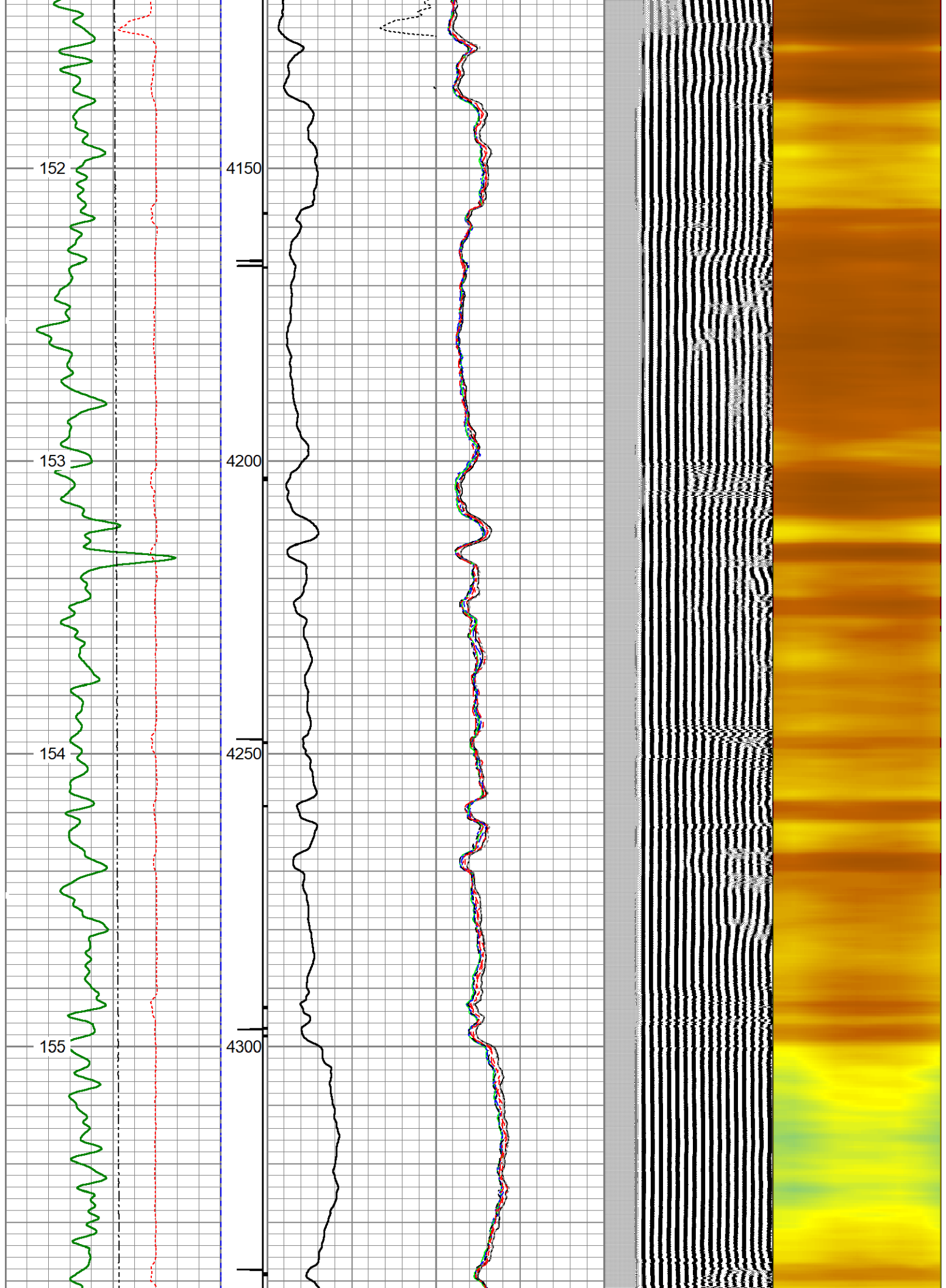


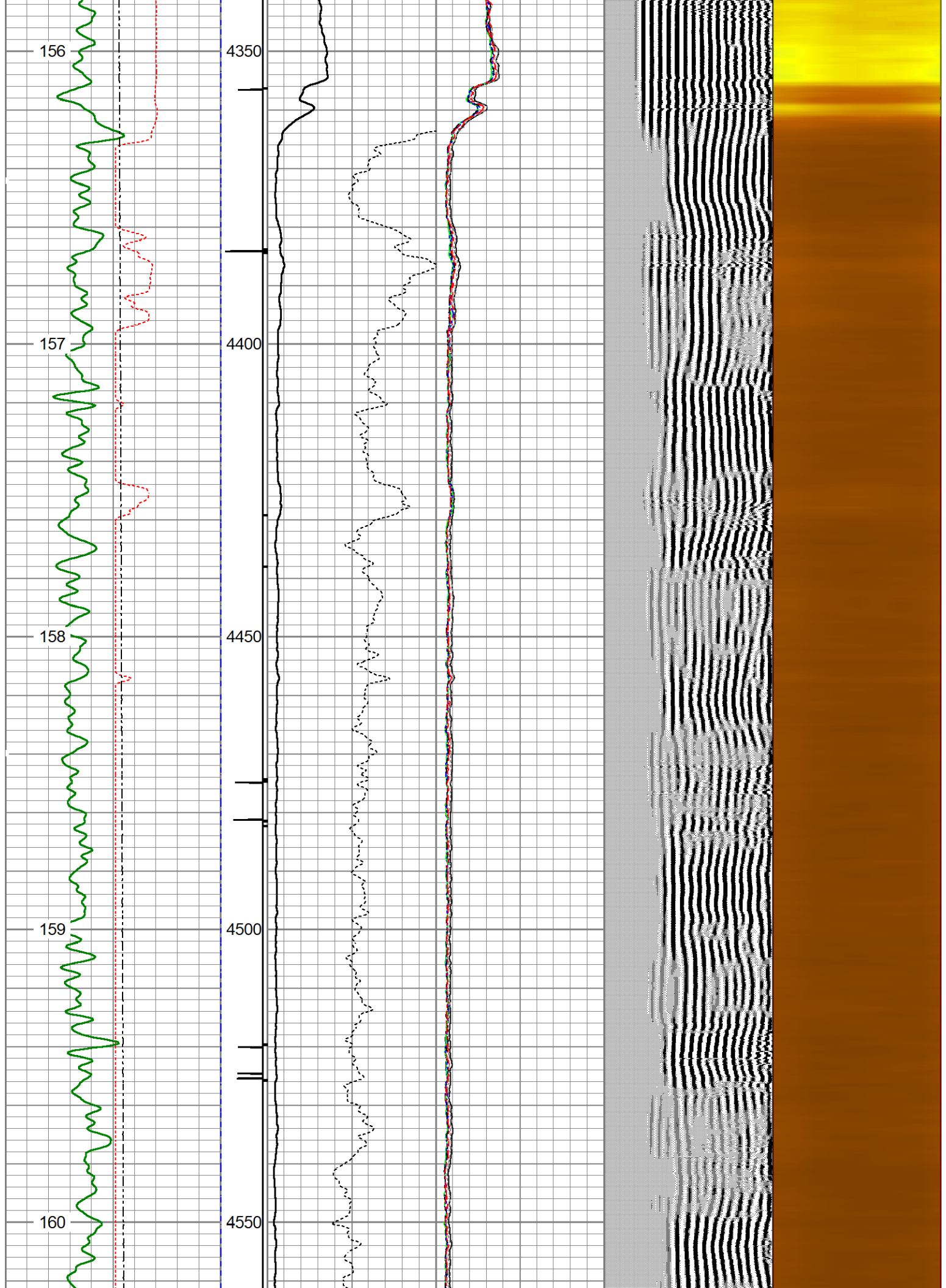


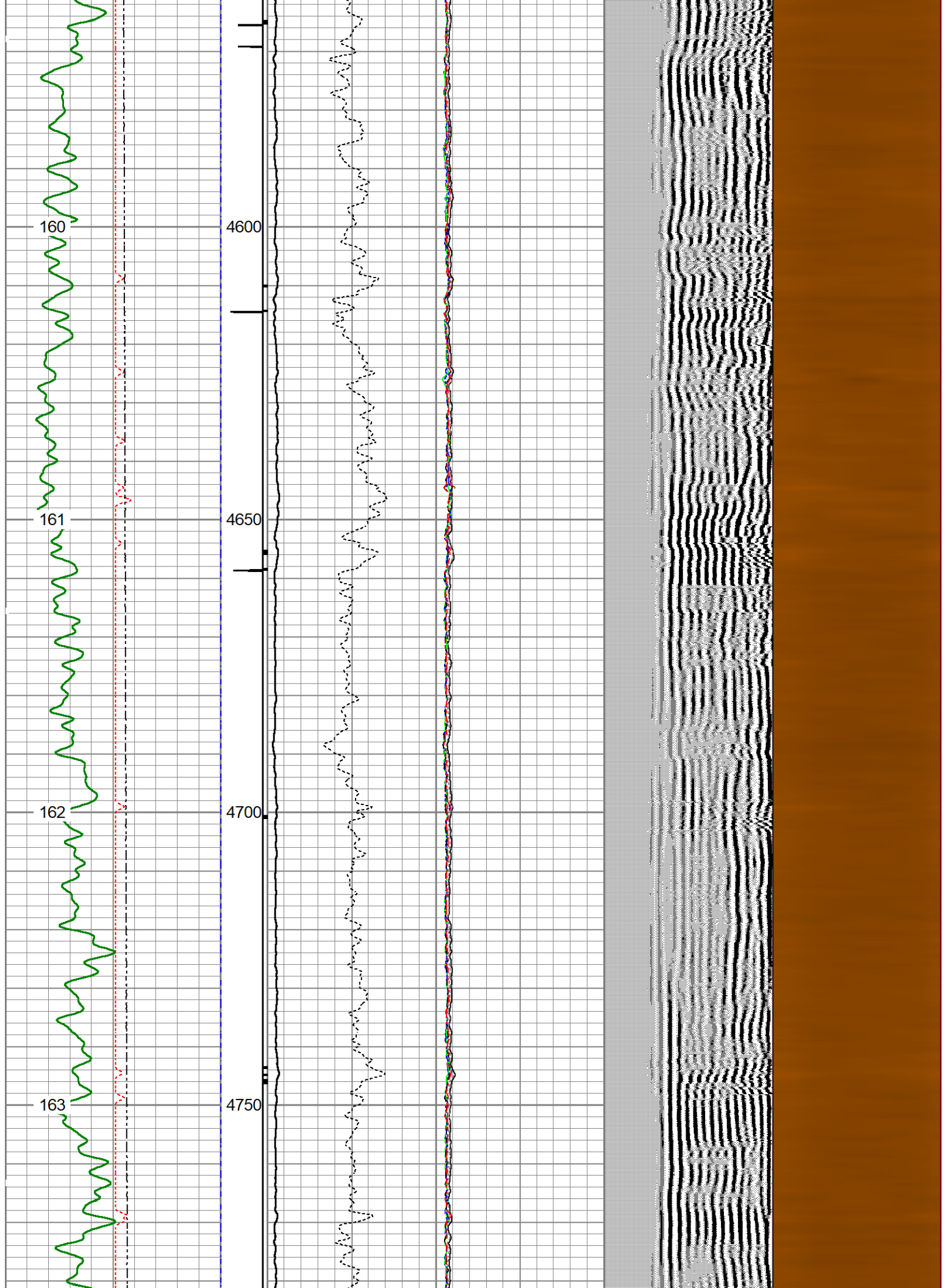


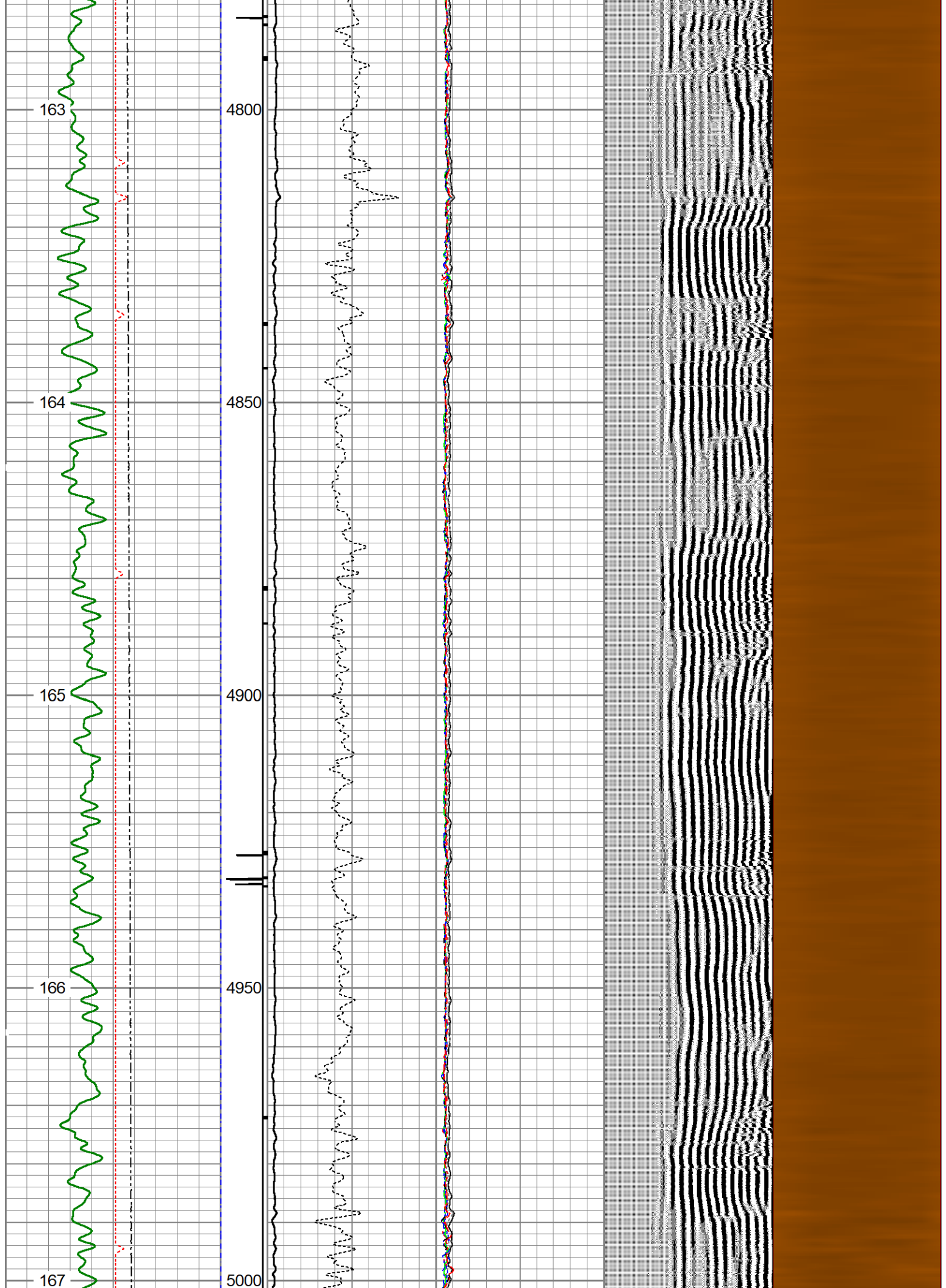


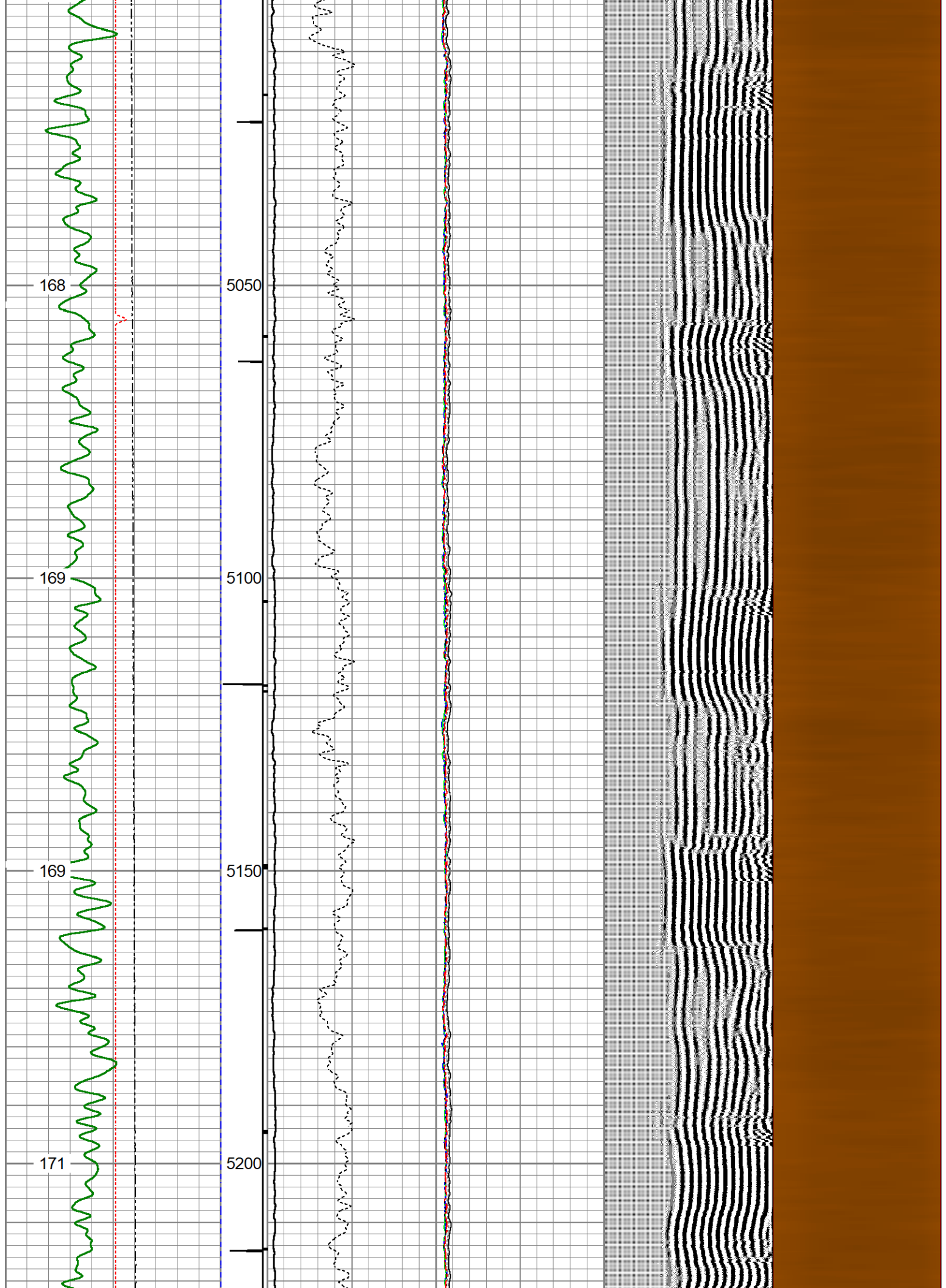


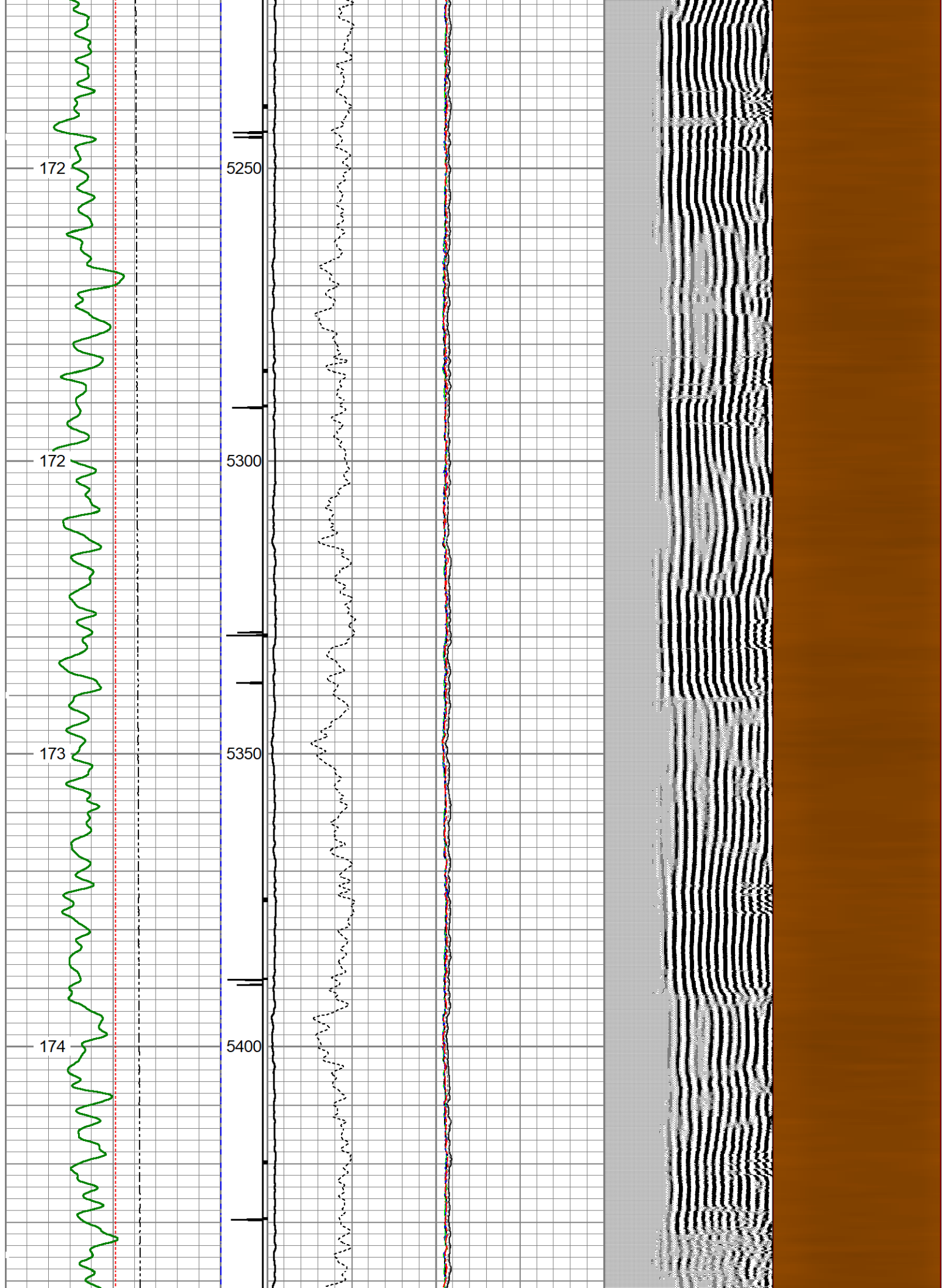




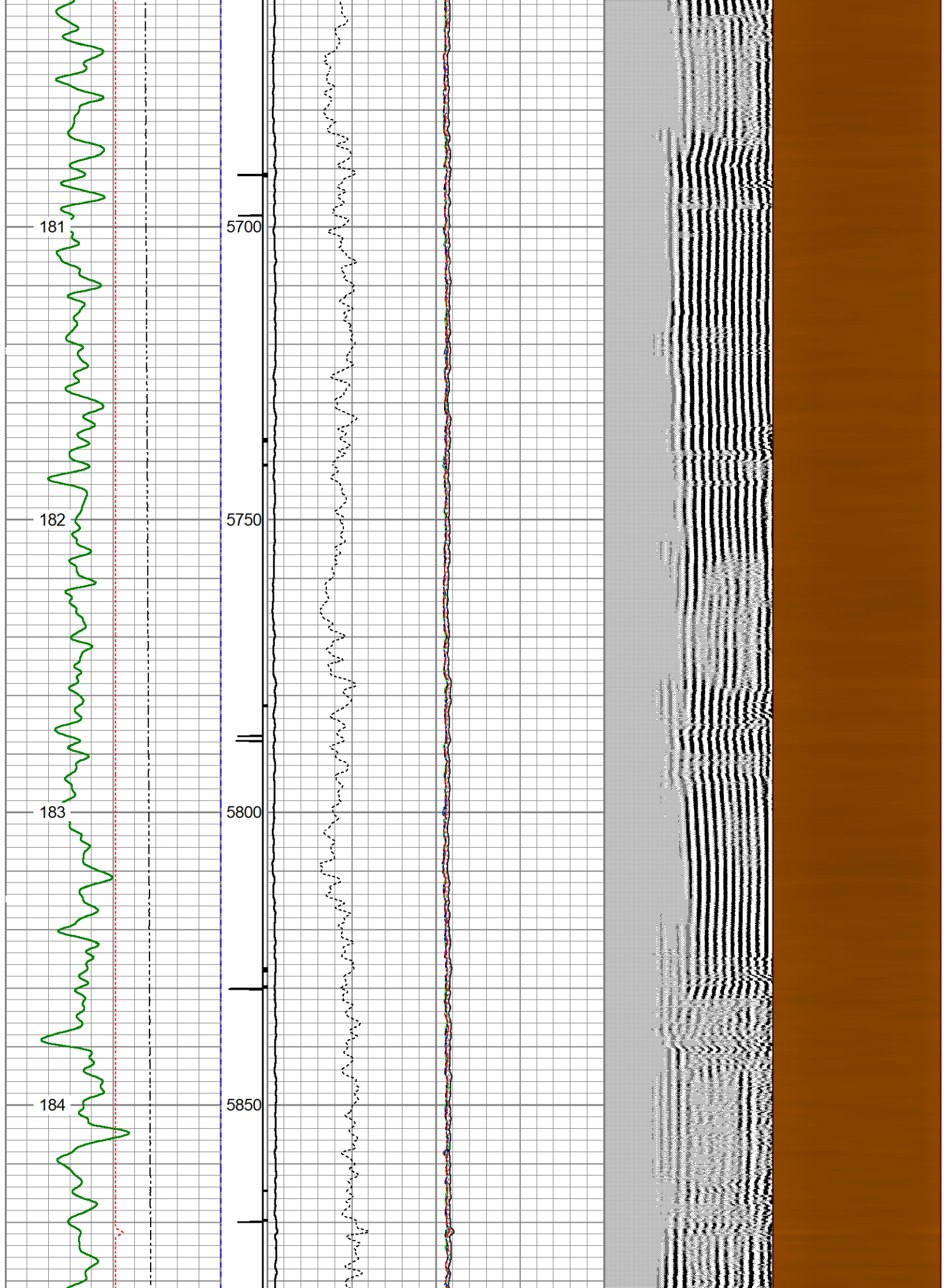


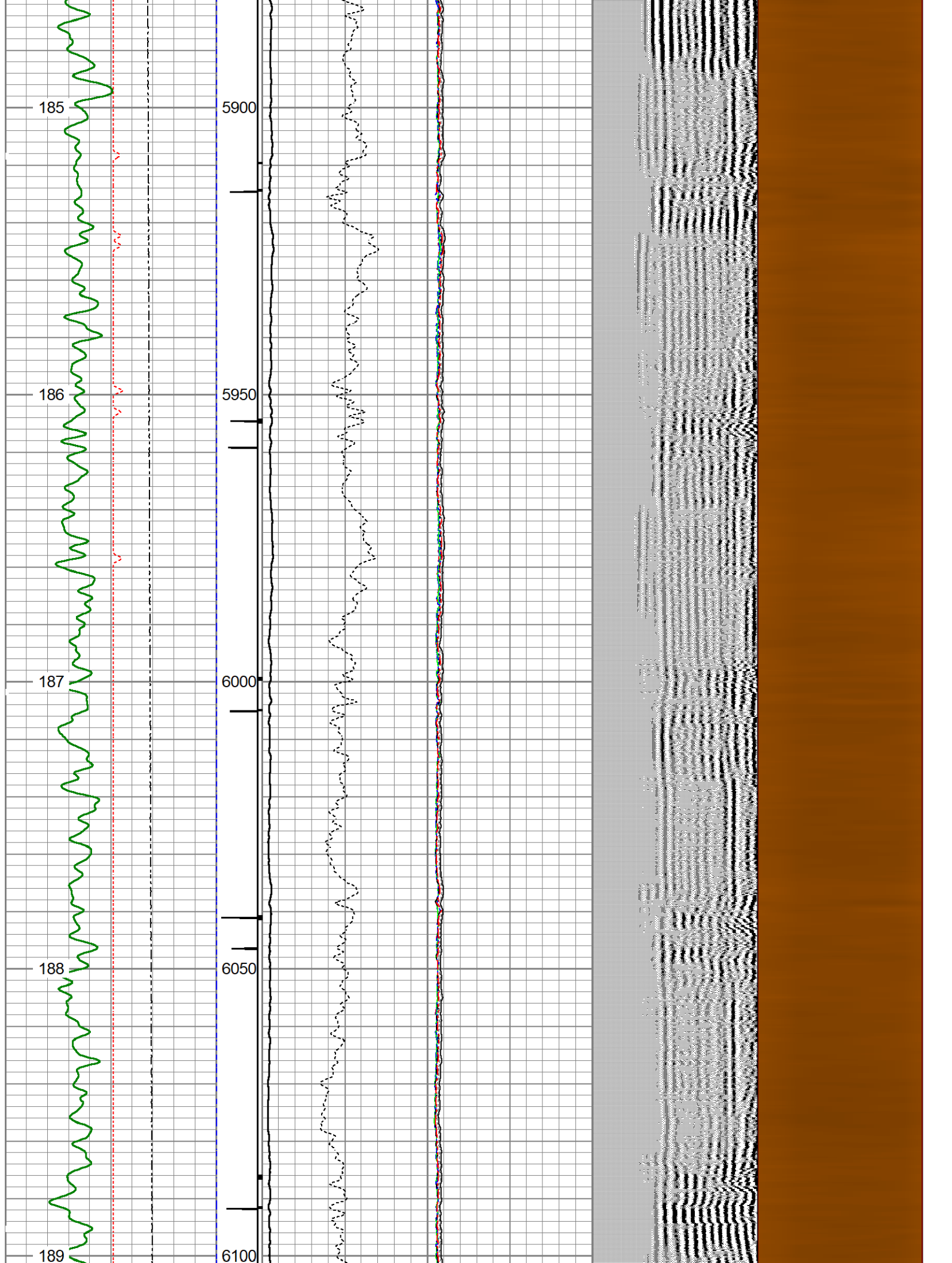


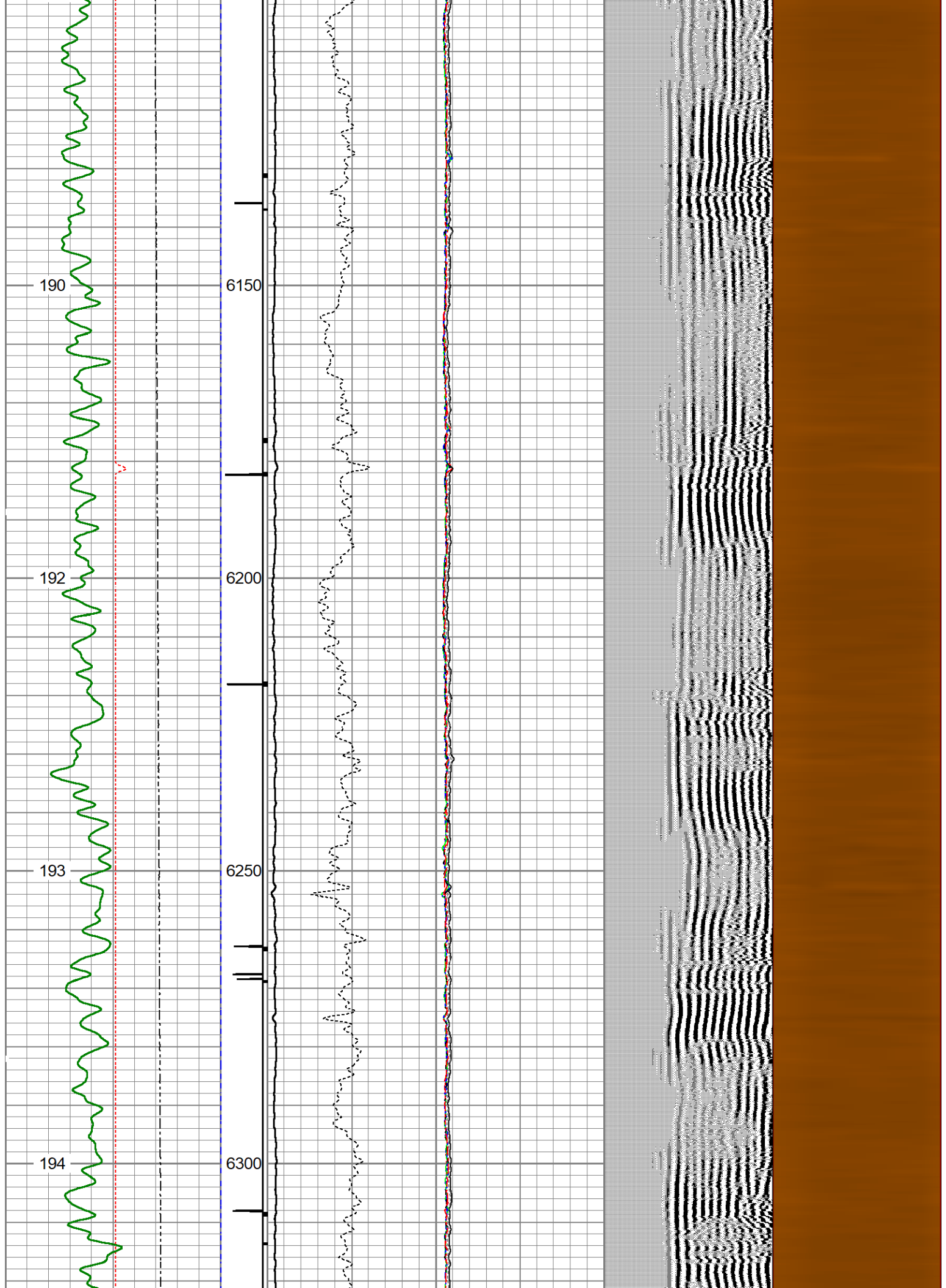




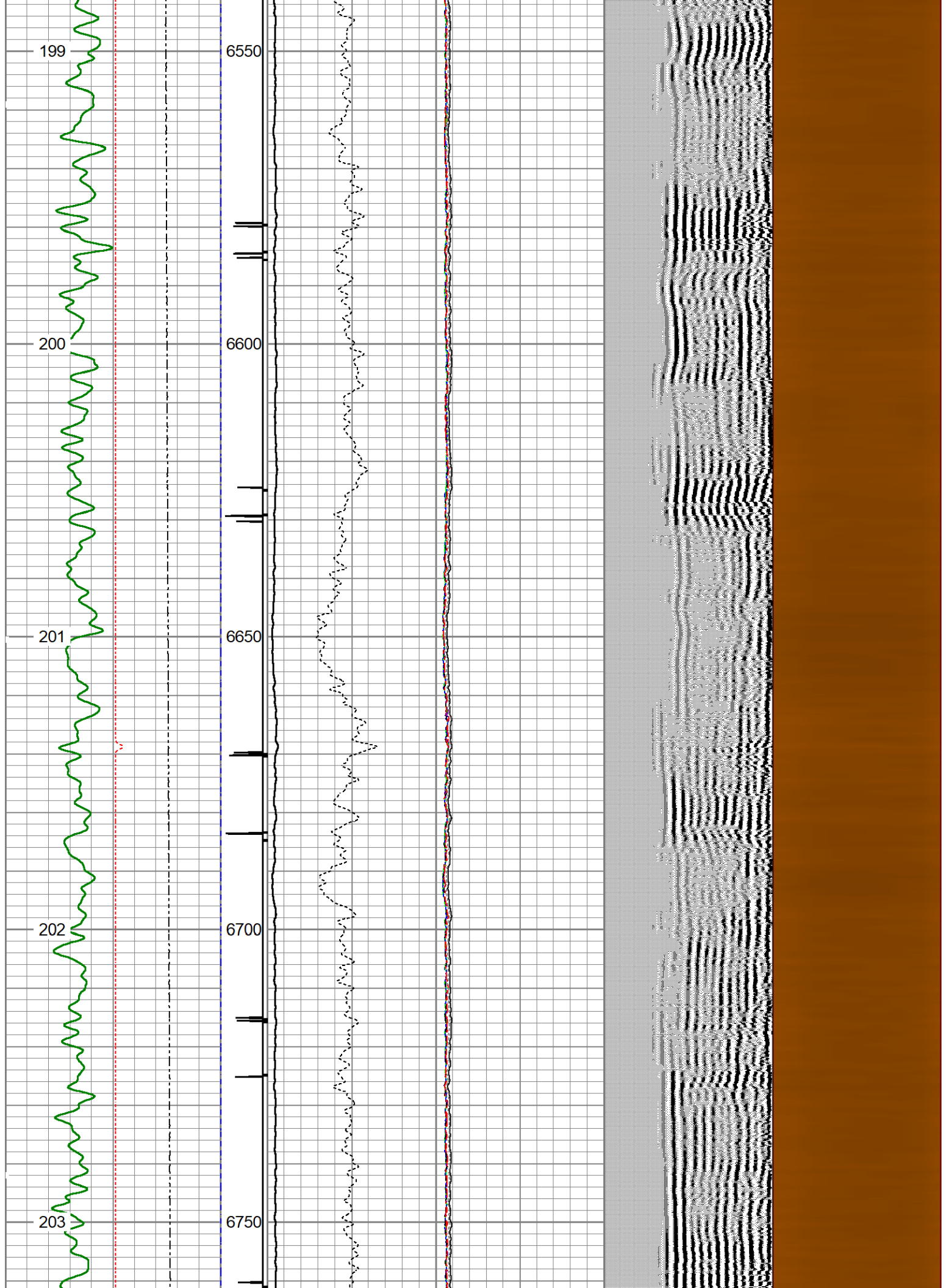


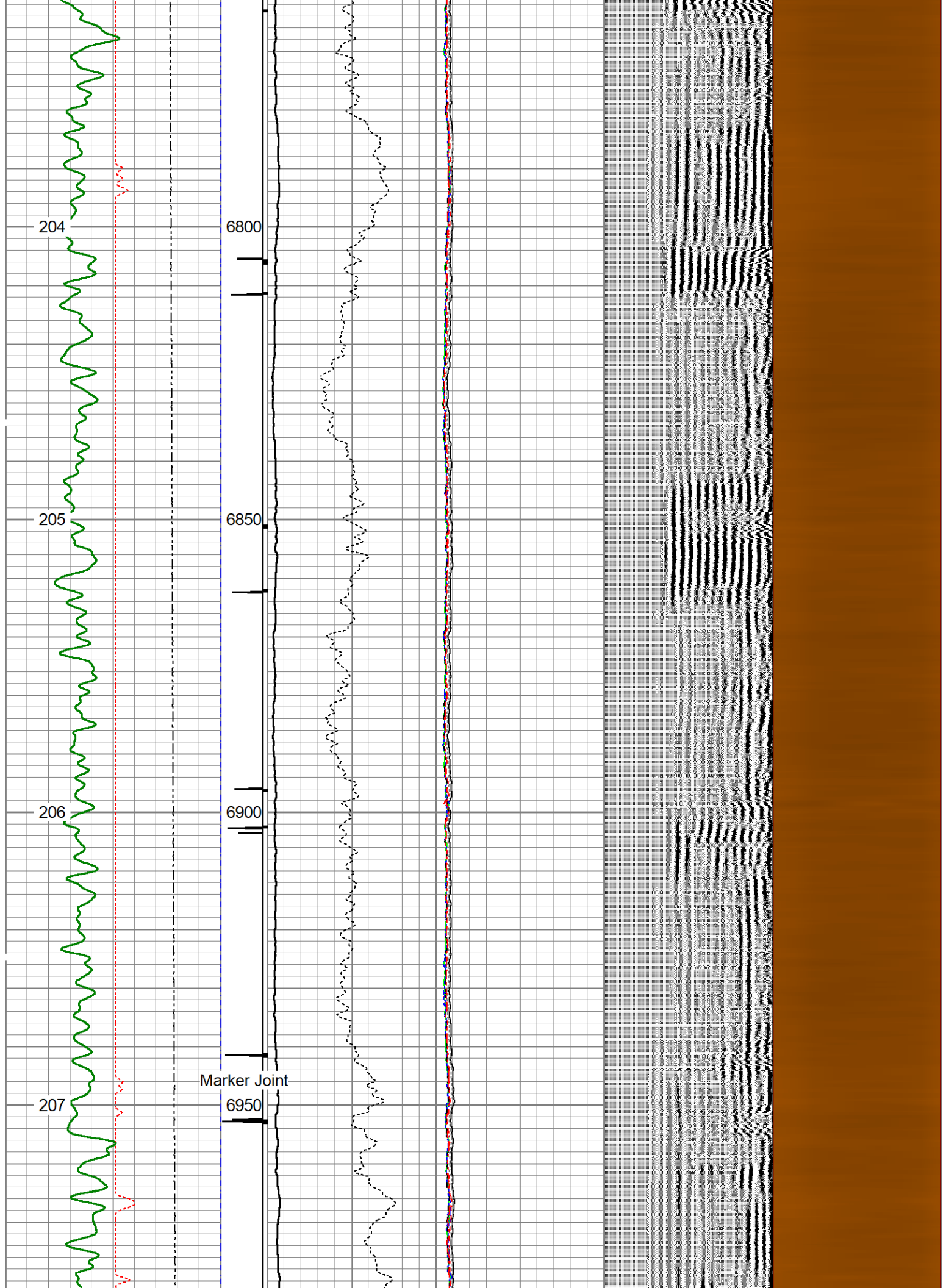


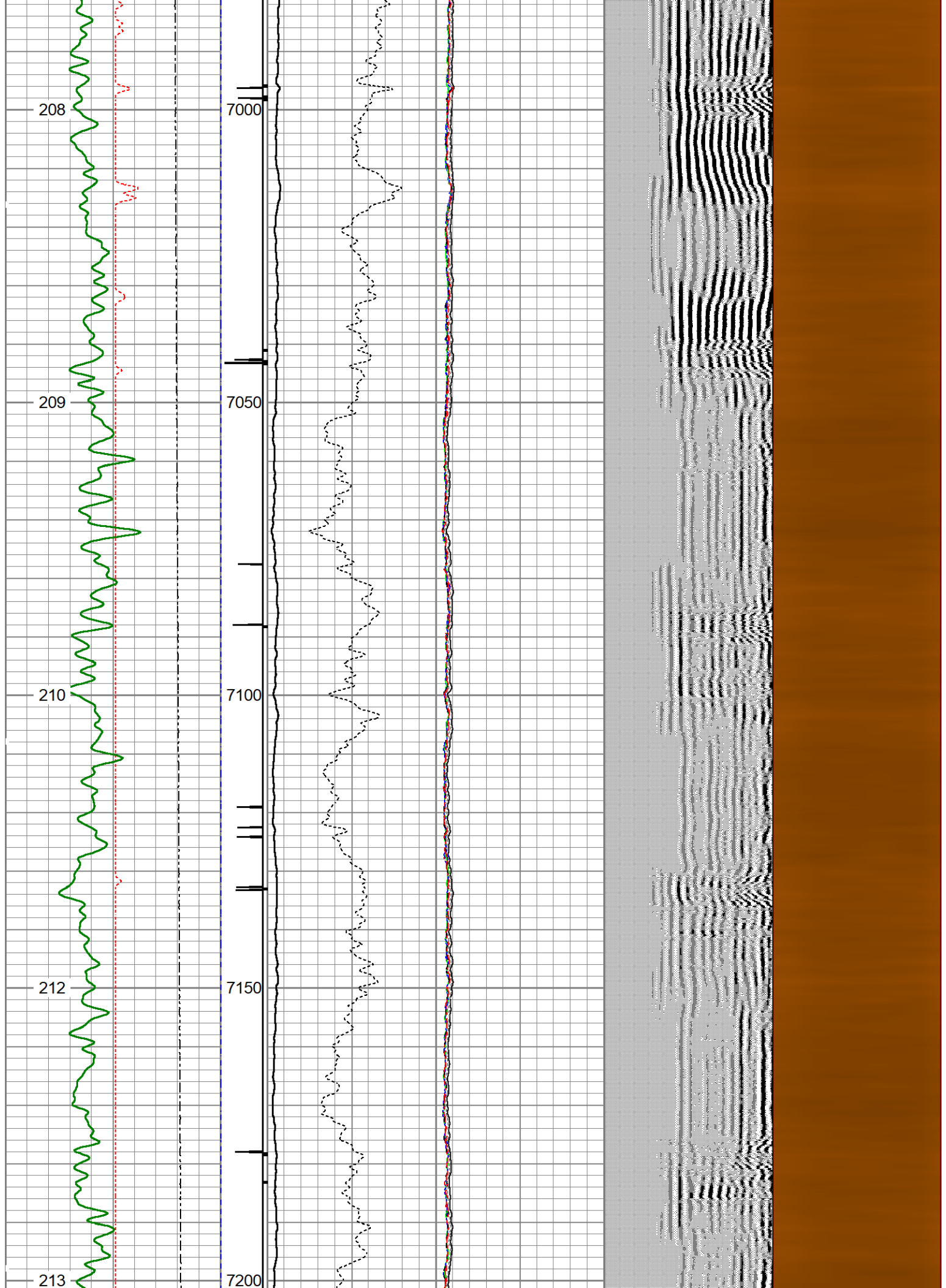




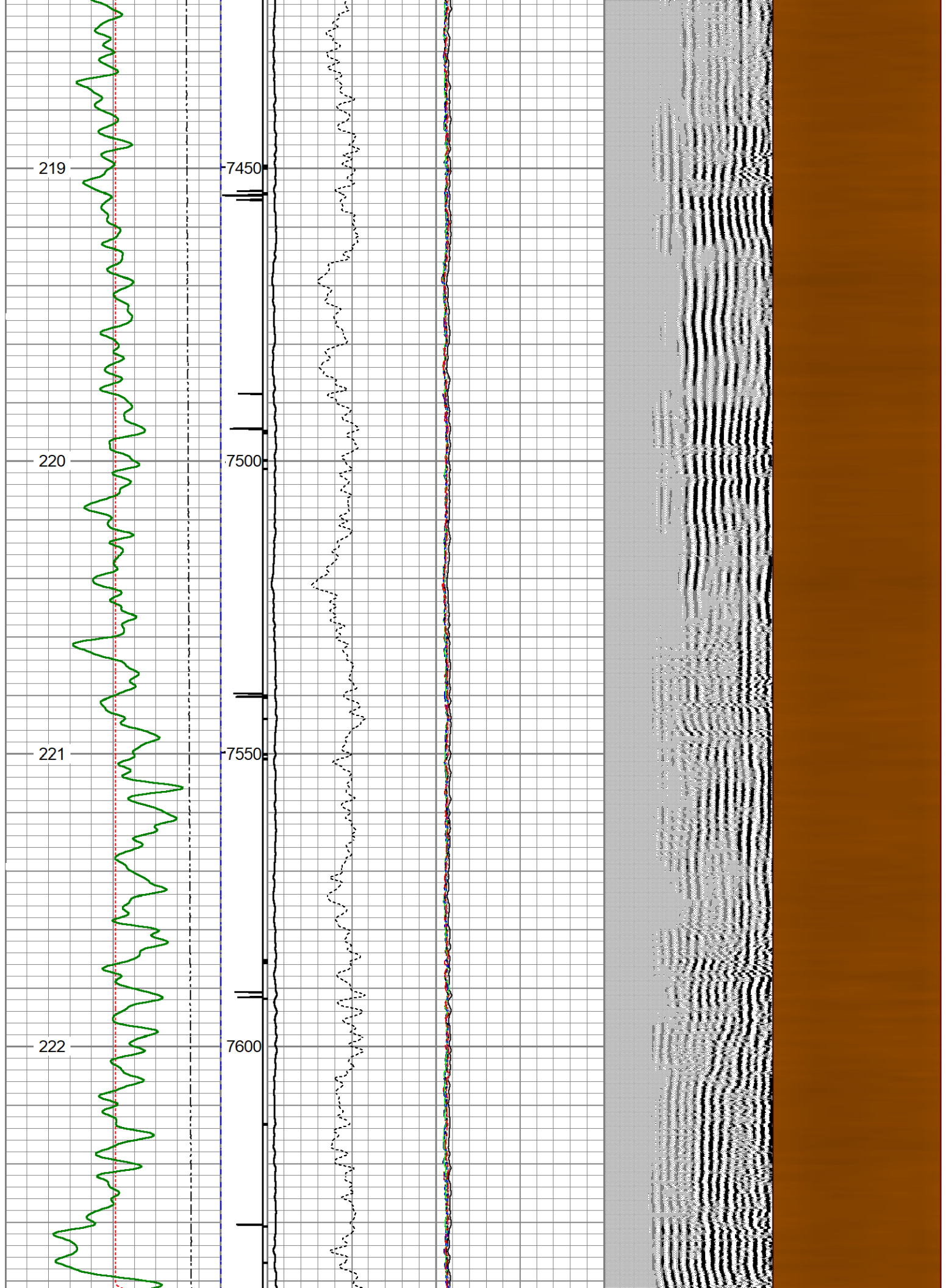


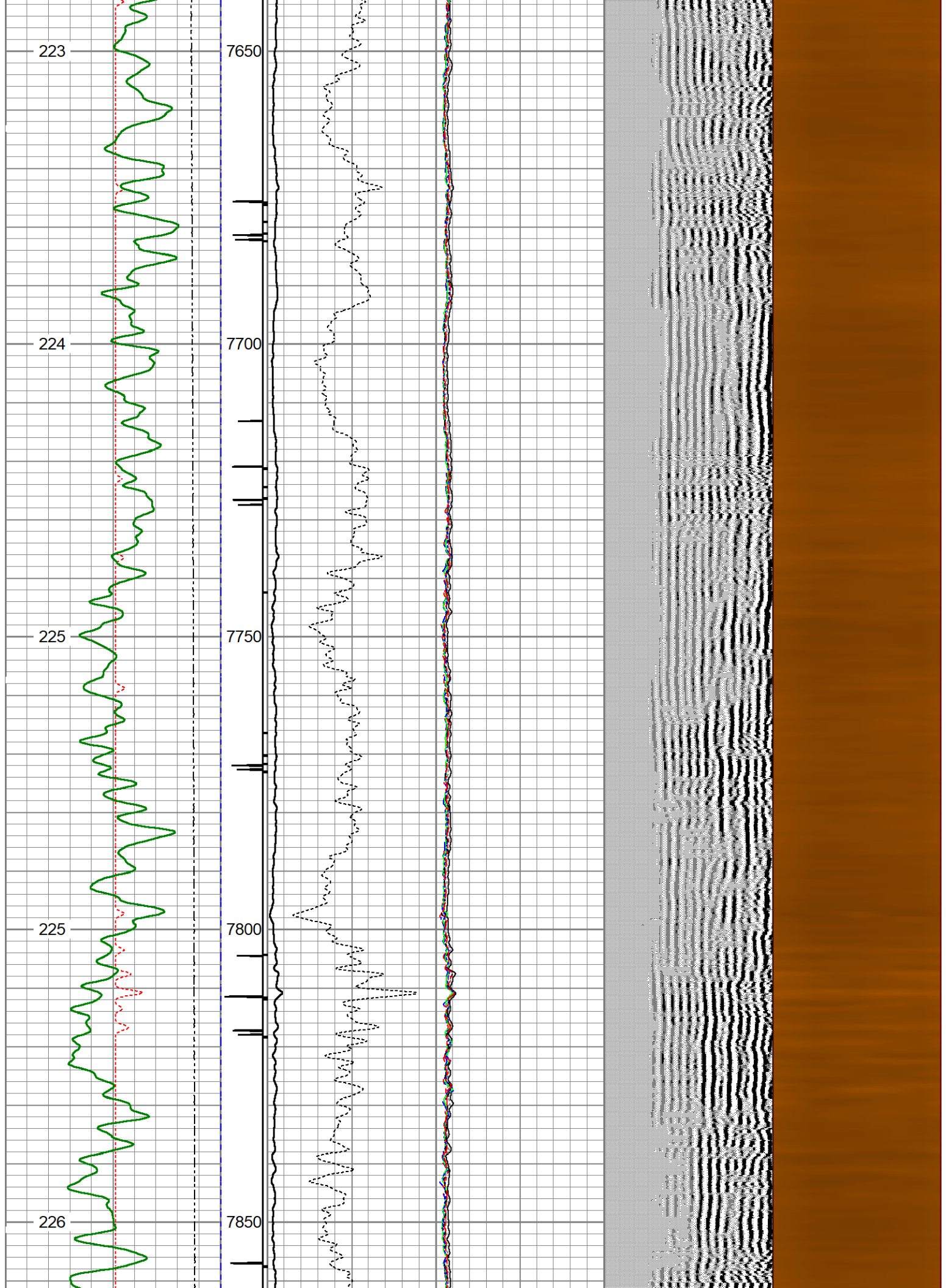


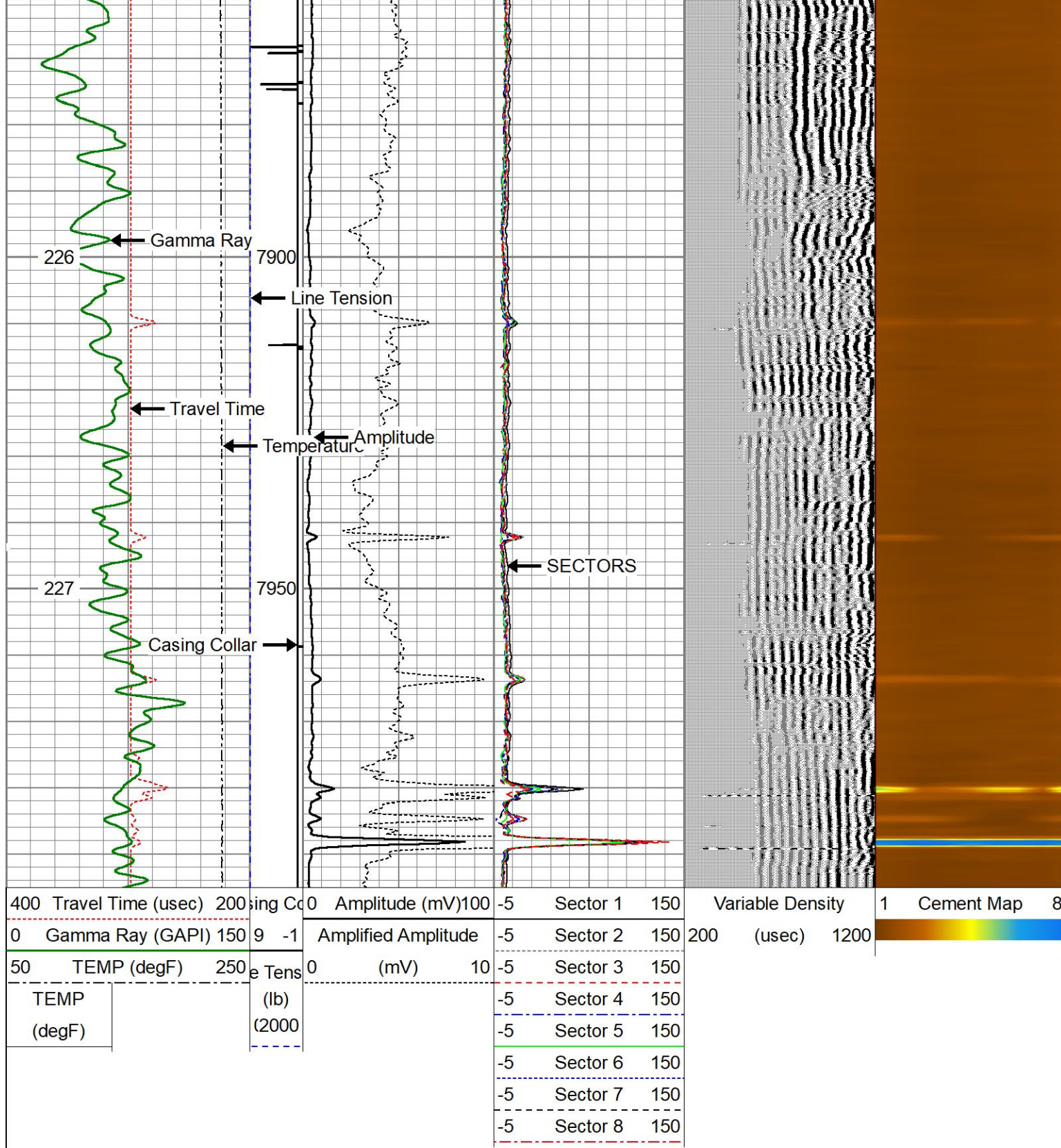










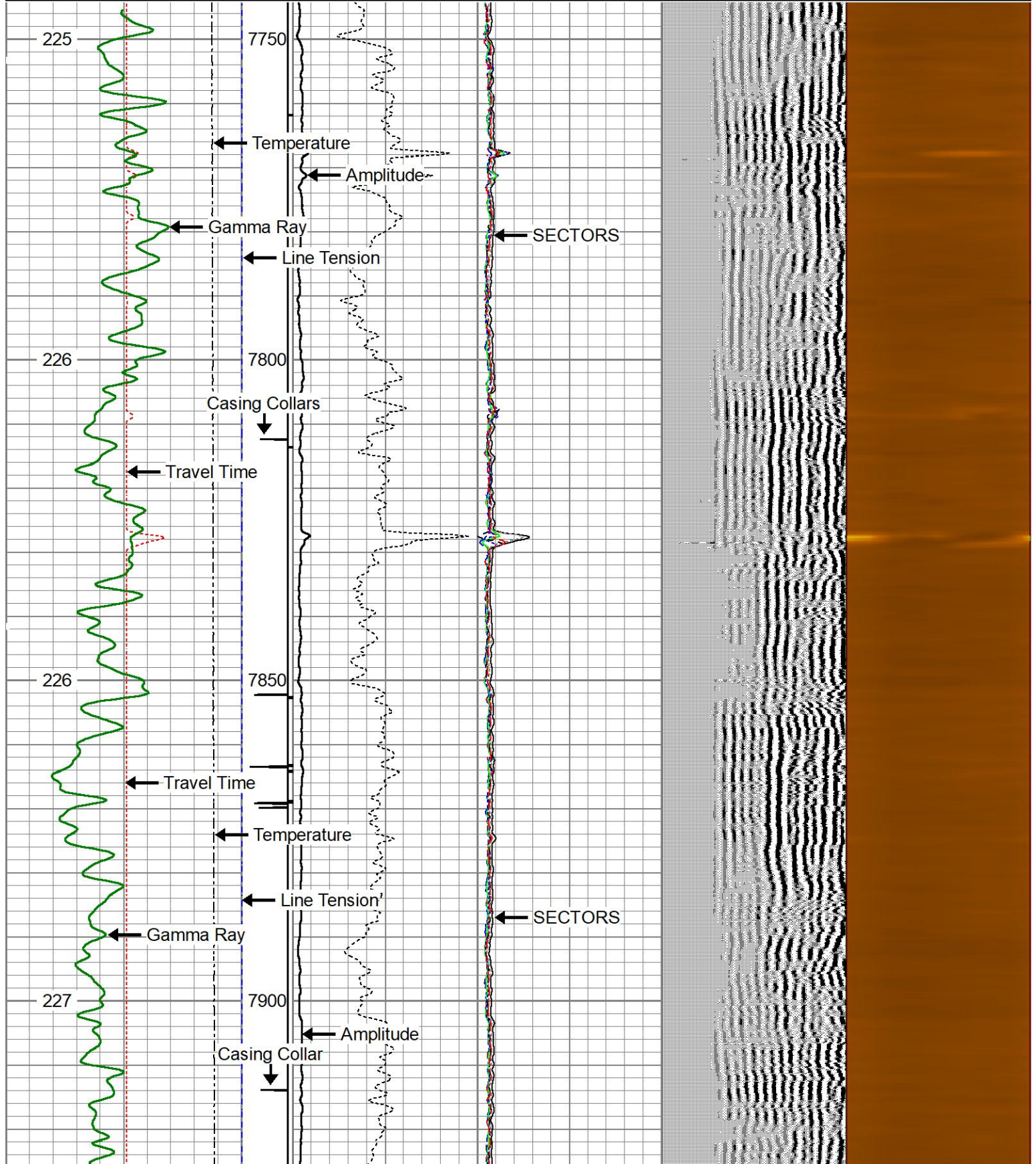


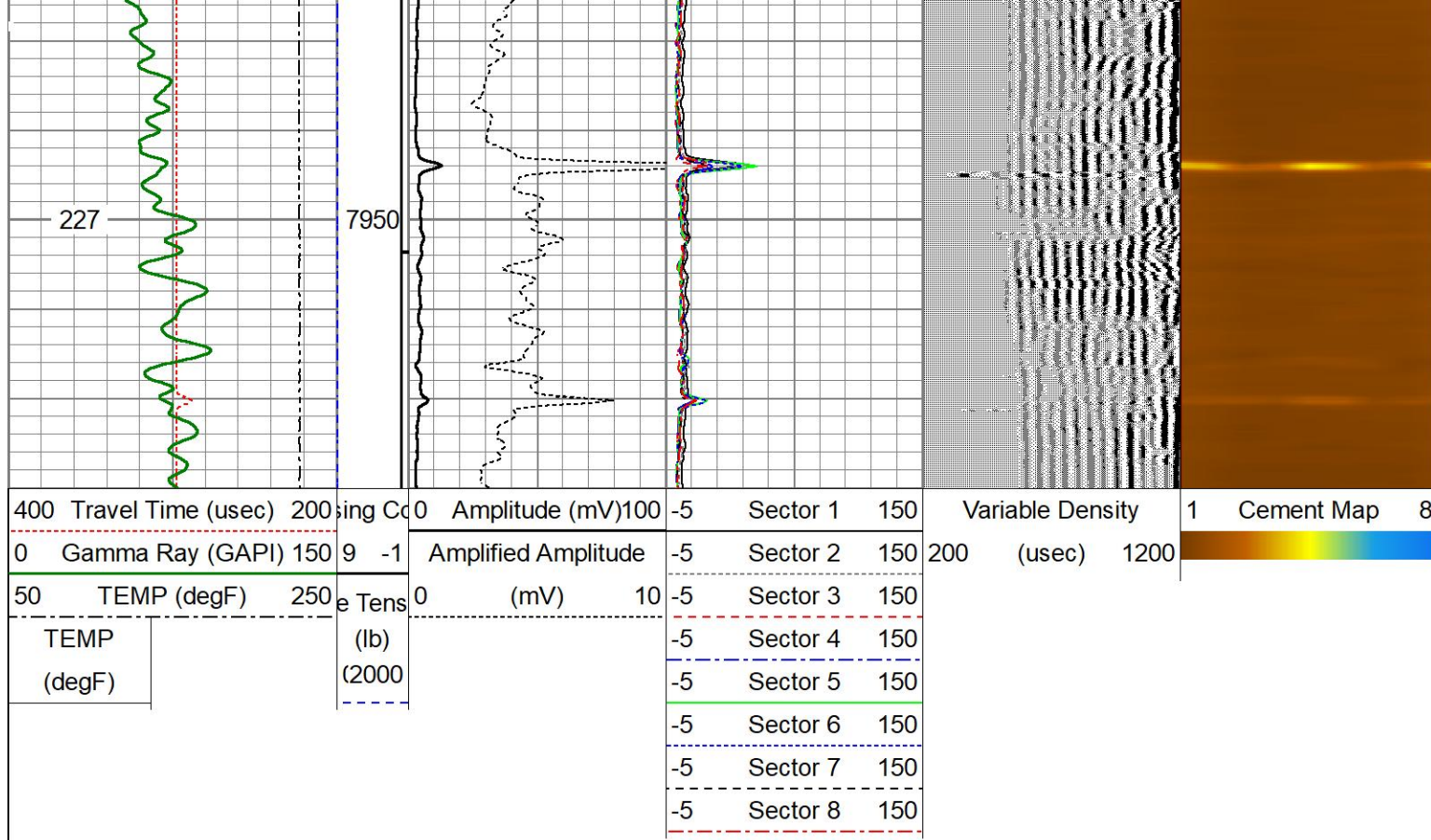
REPEAT PASS

LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

Database File raindance_fc_23-289hn_rcbl10-31-21.db
 Dataset Pathname RCBL1/pass11
 Presentation Format rcbl_hh
 Dataset Creation Sun Oct 31 13:41:35 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	-5	1	Cement Map	8
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_23-289hn_rcbl10-31-21.db					
Dataset Pathname	RCBL1/pass13					
Dataset Creation	Sun Oct 31 13:46:56 2021					
Gamma Ray Calibration Report						
Type / Serial:			Probe275dig / 080829			
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						

Tool Model:

Probe 2.75 Radii W/Temp

Calibration Casing Diameter:

5.500

in

Calibration Depth:

1603.858

ft

Master Calibration, performed Sun Oct 31 13:14:07 2021:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.505	1.000	71.921	140.586	0.926
CAL	0.000	0.614				
5'	0.001	0.448	1.000	71.921	158.657	0.862
SUM						
S1	-0.010	0.492	0.000	100.000	199.164	1.986
S2	-0.002	0.482	0.000	100.000	206.561	0.444
S3	0.007	0.489	0.000	100.000	207.497	-1.439
S4	0.007	0.506	0.000	100.000	200.132	-1.319
S5	0.006	0.508	0.000	100.000	199.479	-1.266
S6	0.006	0.500	0.000	100.000	202.247	-1.180
S7	0.006	0.507	0.000	100.000	199.450	-1.195
S8	0.006	0.500	0.000	100.000	202.332	-1.136

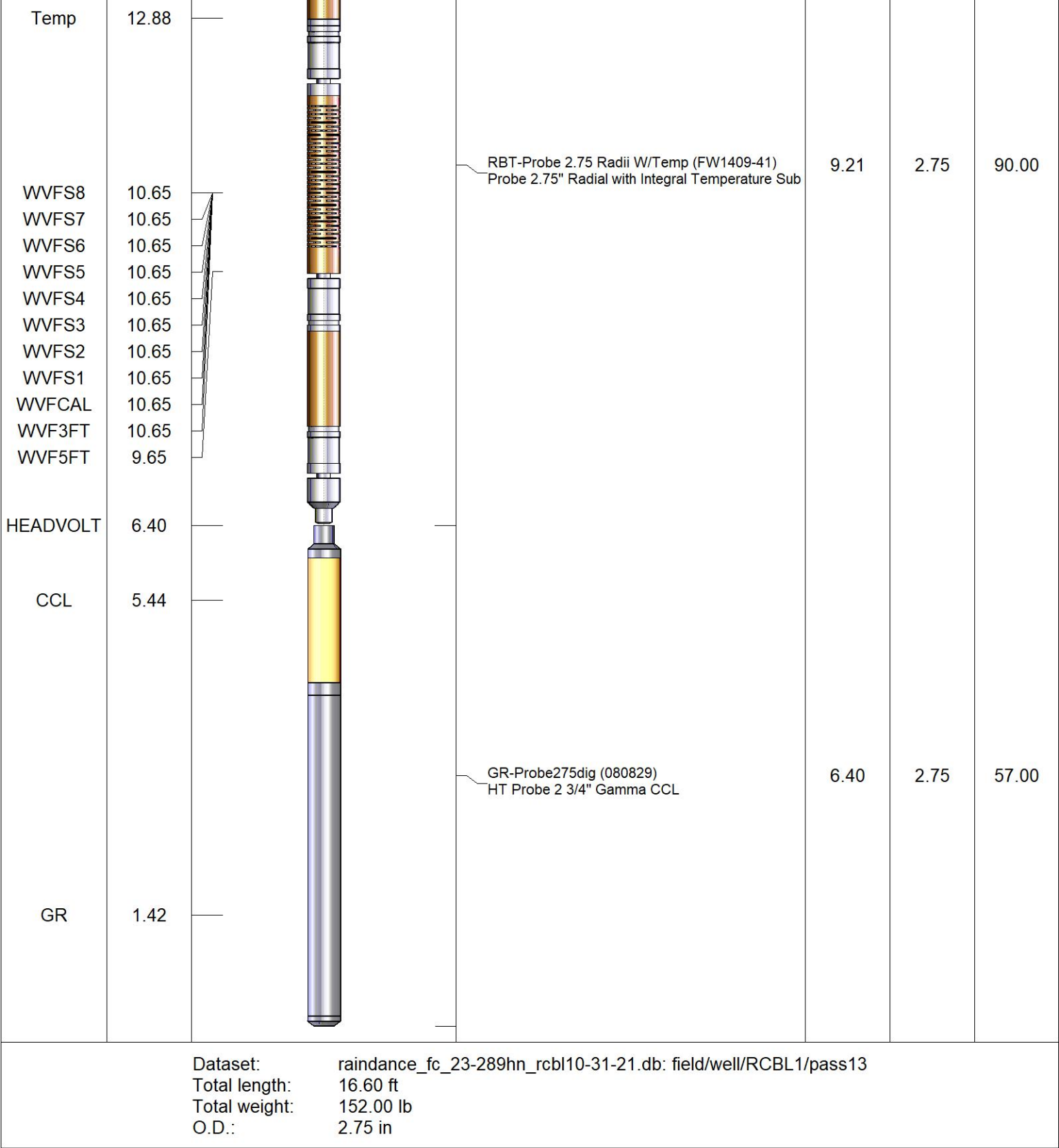
Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.614	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



	Company	GREAT WESTERN OIL & GAS		
	Well	RAINDANCE FC 23-289HN		
	Field	WATTENBERG		
	County	WELD		
	State	COLORADO	Country	USA