



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

Company	GREAT WESTERN OIL & GAS	
Well	RAINDANCE FC 23-289HNX	
Field	WATTENBERG	
County	WELD	State
State	COLORADO	
Location:	API # : 05-123-51584	Other Services
40.463009 / -104.9273		N/A
Permanent Datum	GL	Elevation
Log Measured From	KB	4788'
Drilling Measured From	KB	Elevation
		K.B. 4808'
		D.F. 4788'
		G.L. 4788'

Date	31-OCT-2021
Run Number	ONE
Depth Driller	20590'
Depth Logger	7771'
Bottom Logged Interval	7770'
Top Log Interval	SURFACE
Open Hole Size	-
Type Fluid	WATER
Density / Viscosity	-
Max. Recorded Temp.	222°F
Estimated Cement Top	-
Time Well Ready	15:08
Time Logger on Bottom	16:00
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	9-5/8"
Prot. String	40#
Production String	5-1/2"
Liner	20#
	Top
	Bottom
	2063'
	20546'

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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 6710' - 6721'

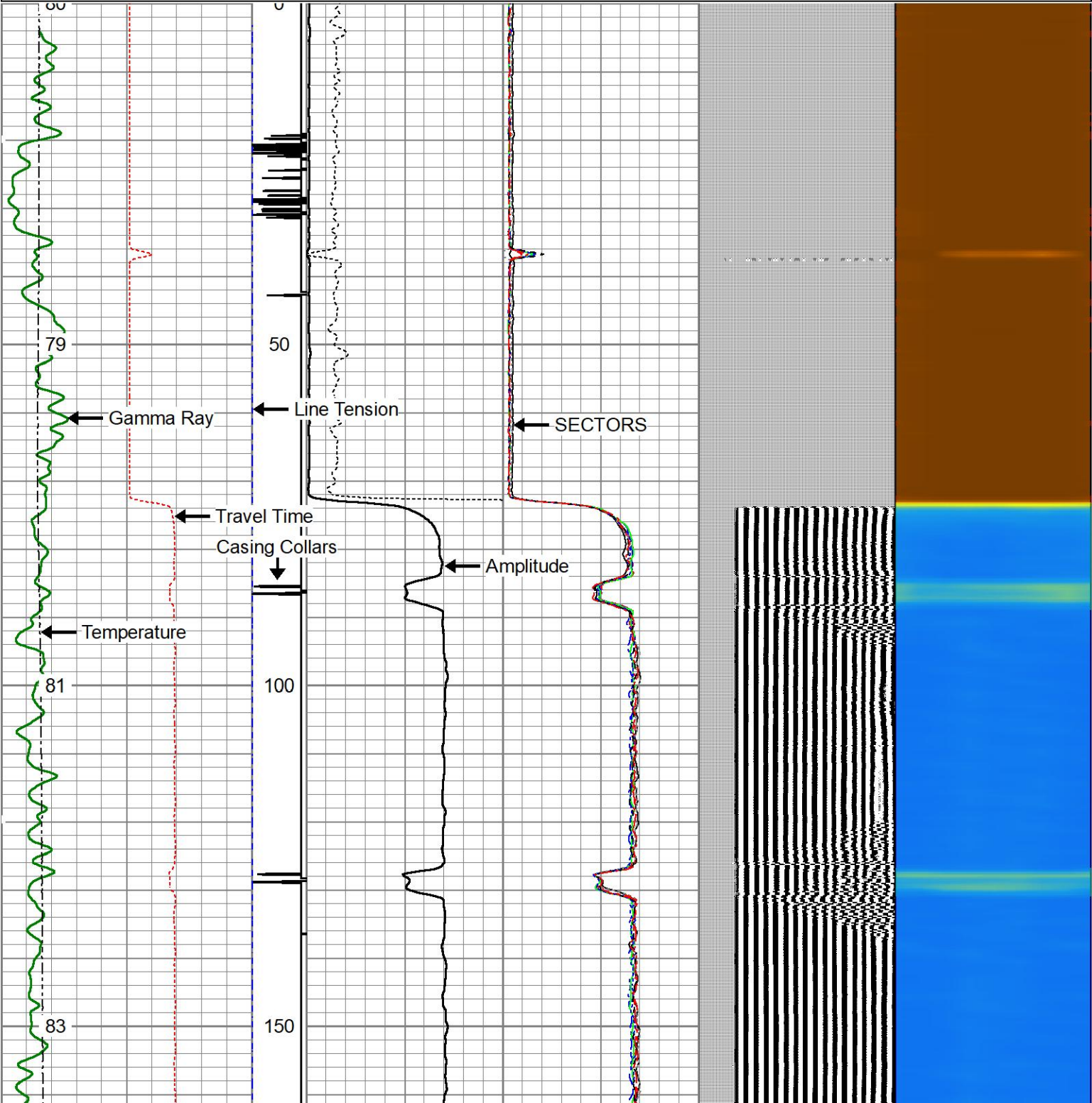
THANK YOU FOR USING KLX ENERGY SERVICES

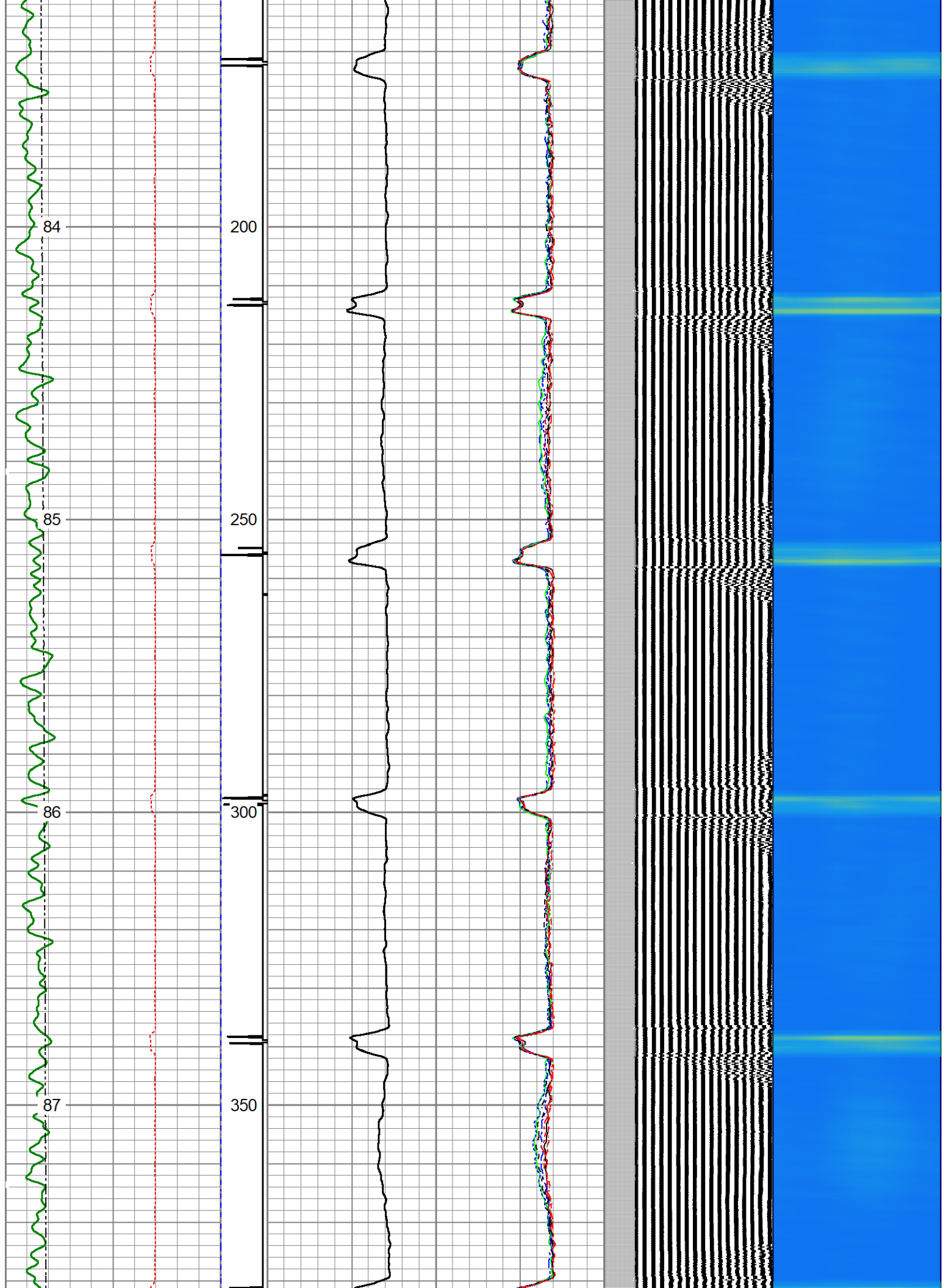


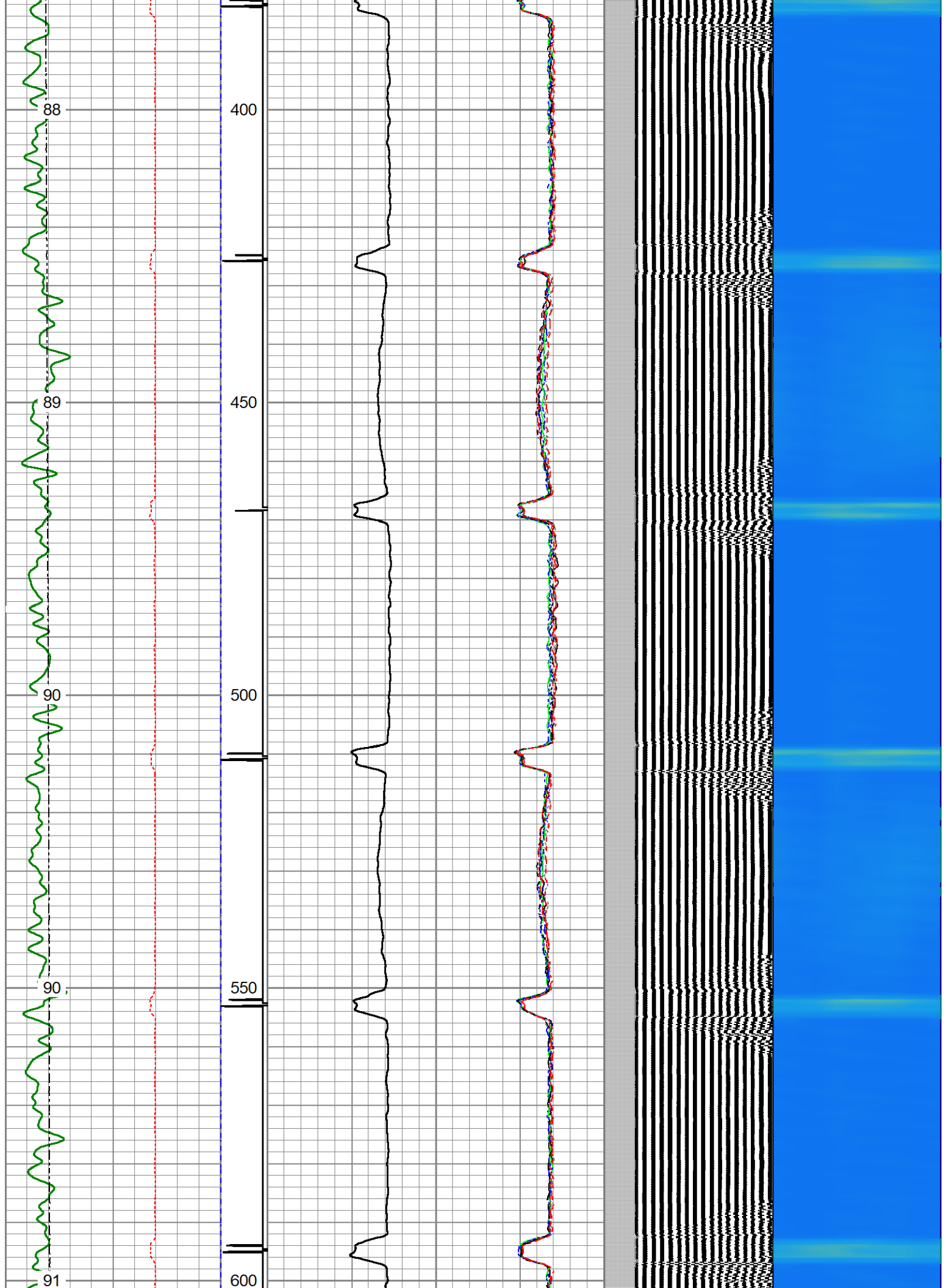
MAIN PASS

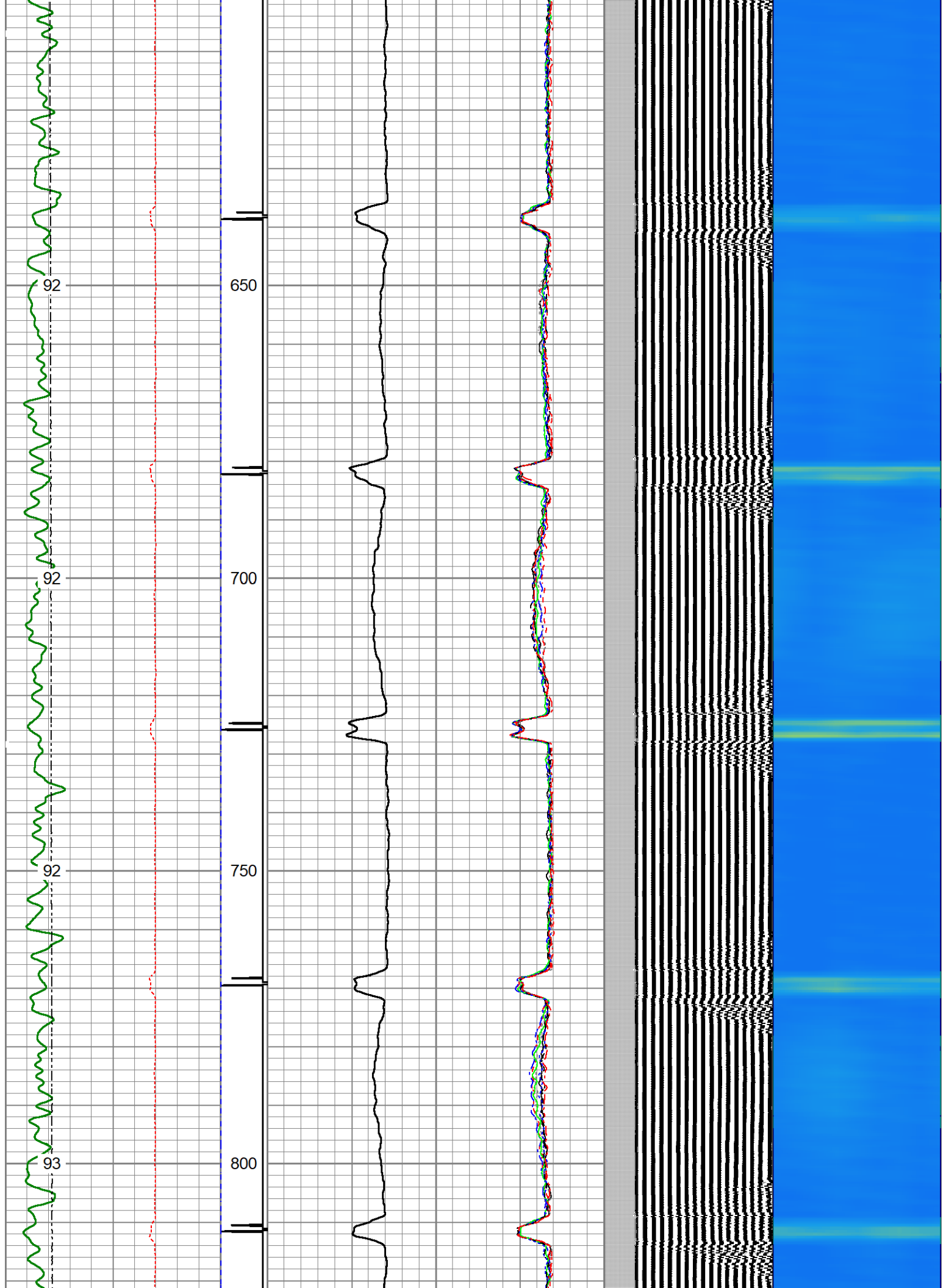
LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

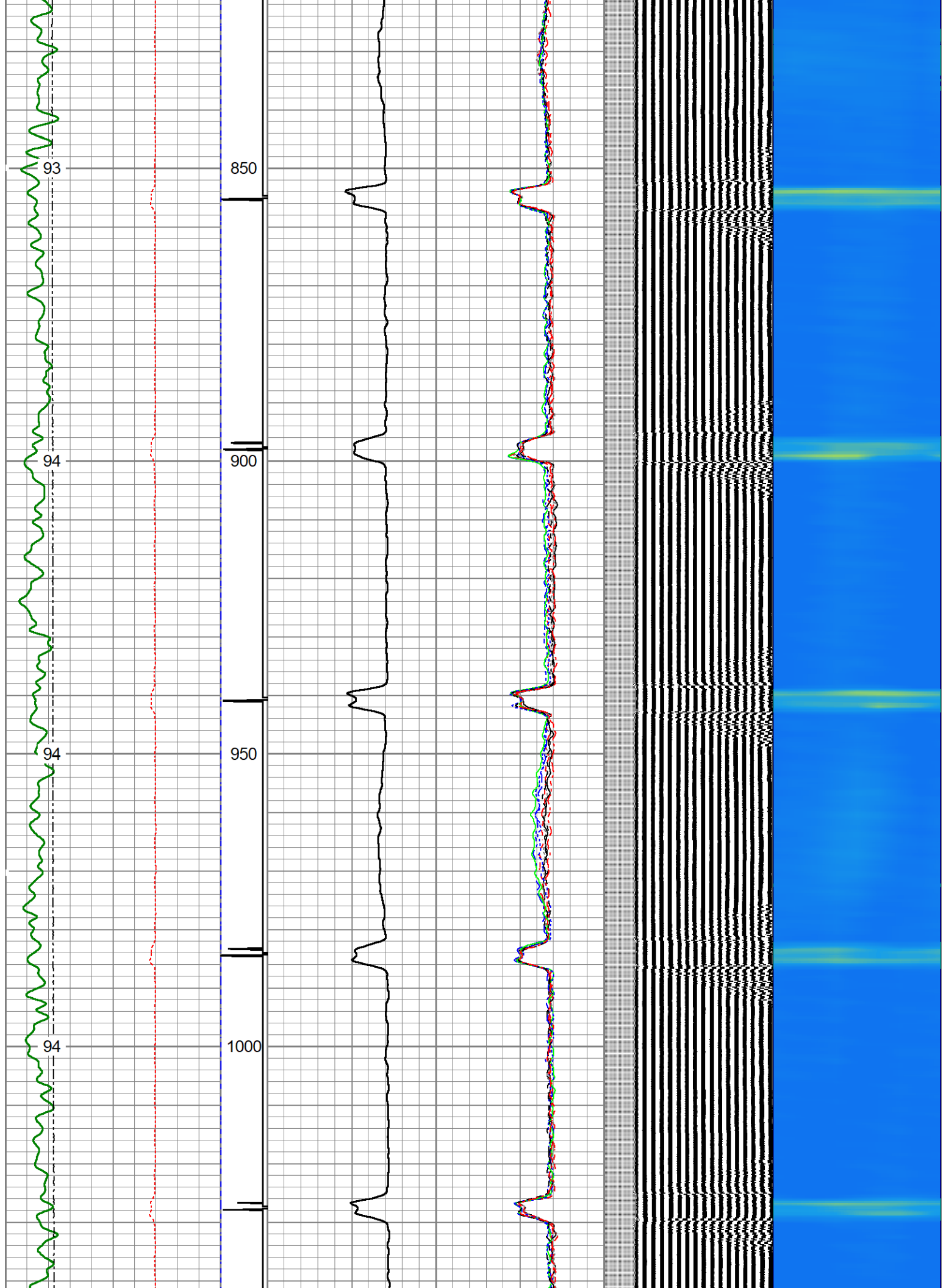
Database File													raindance_fc_23-289hnx_rcbl10-31-21.db																																																																
Dataset Pathname													RCBL1/pass9																																																																
Presentation Format													rcbl_hh																																																																
Dataset Creation													Sun Oct 31 16:10:05 2021																																																																
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0 Gamma Ray (GAPI) 150													9 -1 0													(mV) 100													-5 Sector 2 150													200 (usec) 1200																									
50 TEMP (degF) 250													e Tens													Amplified Amplitude													-5 Sector 3 150																																						
TEMP													(lb)													(mV) 10													-5 Sector 4 150																																						
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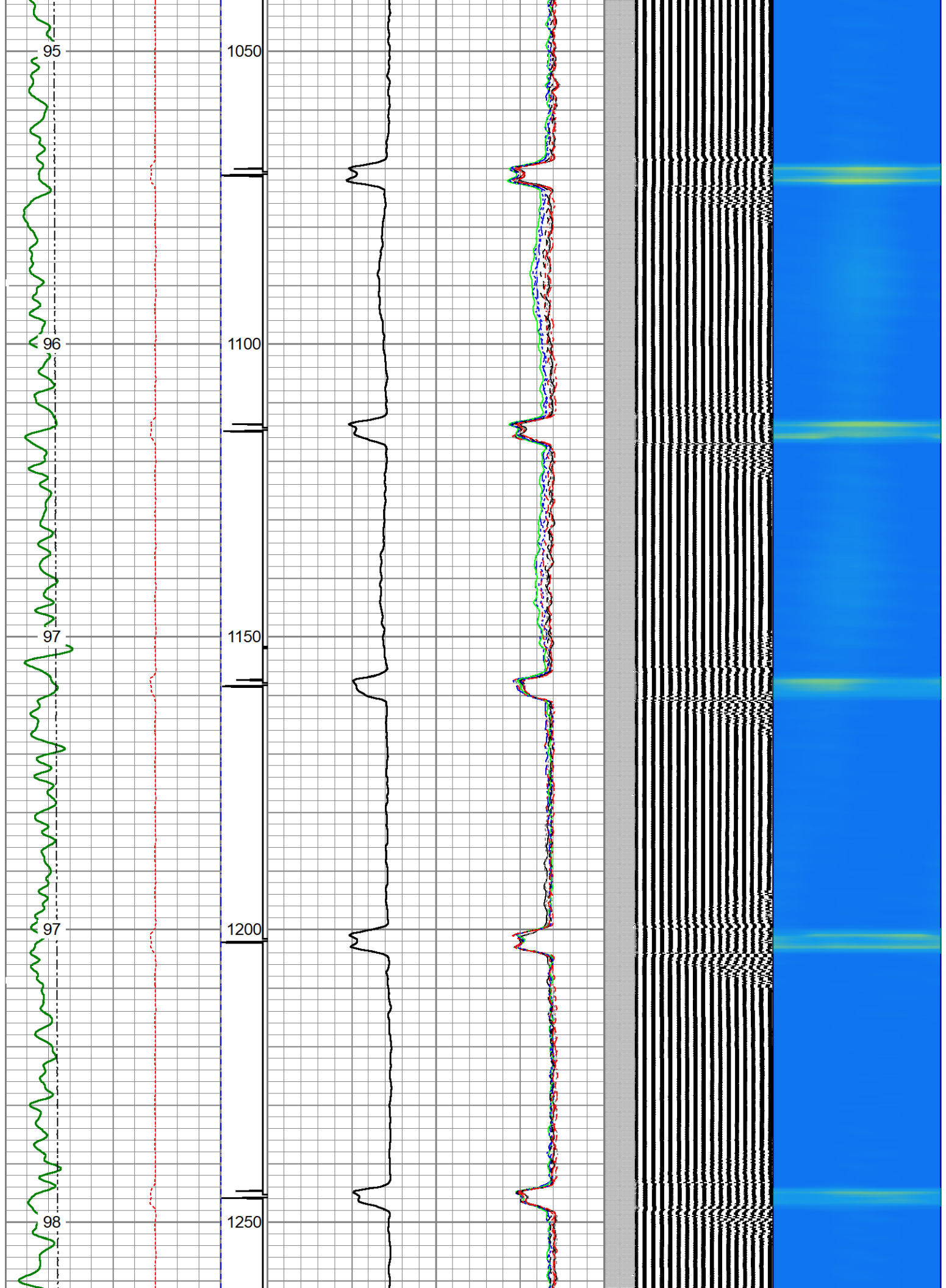


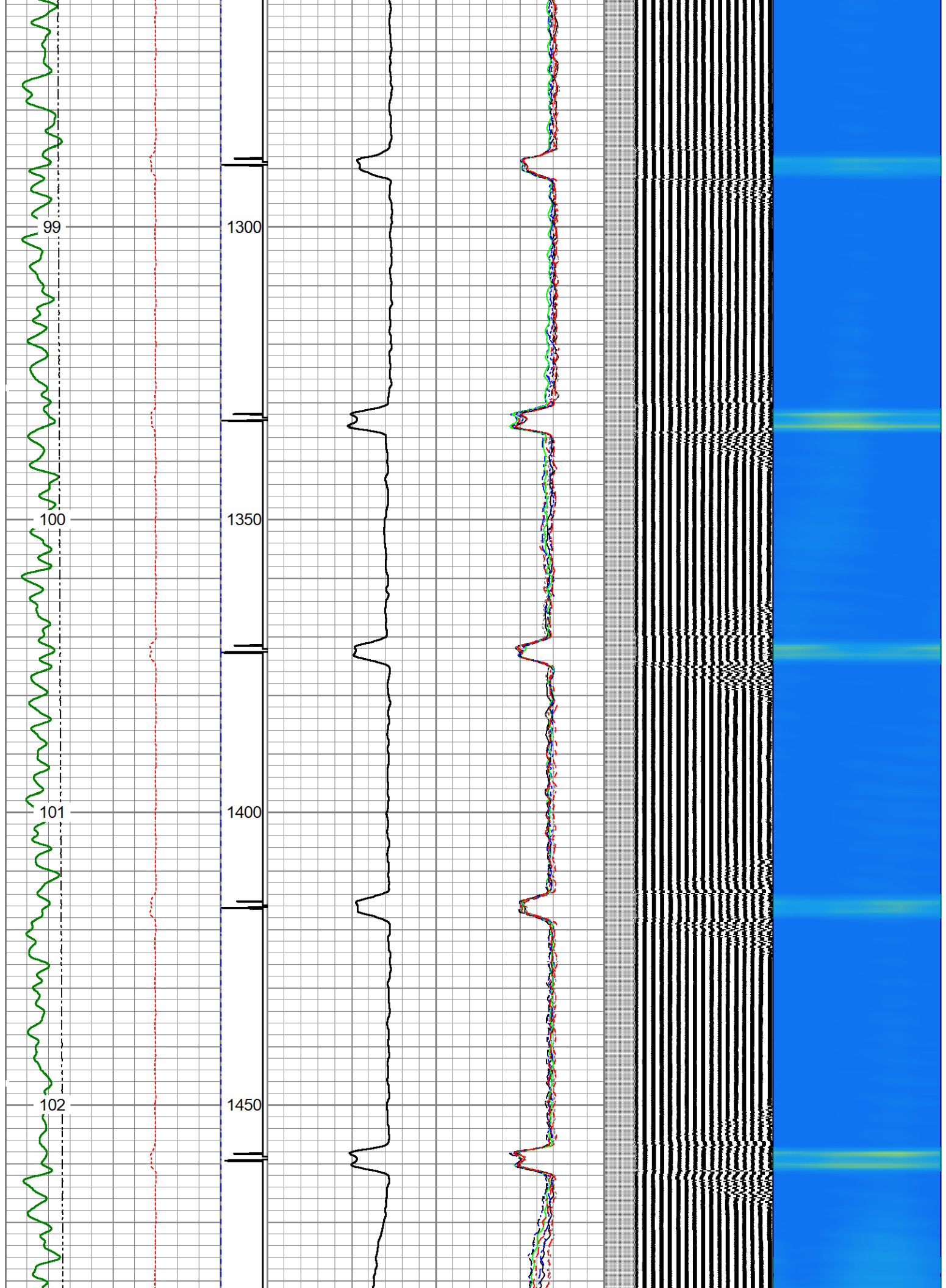


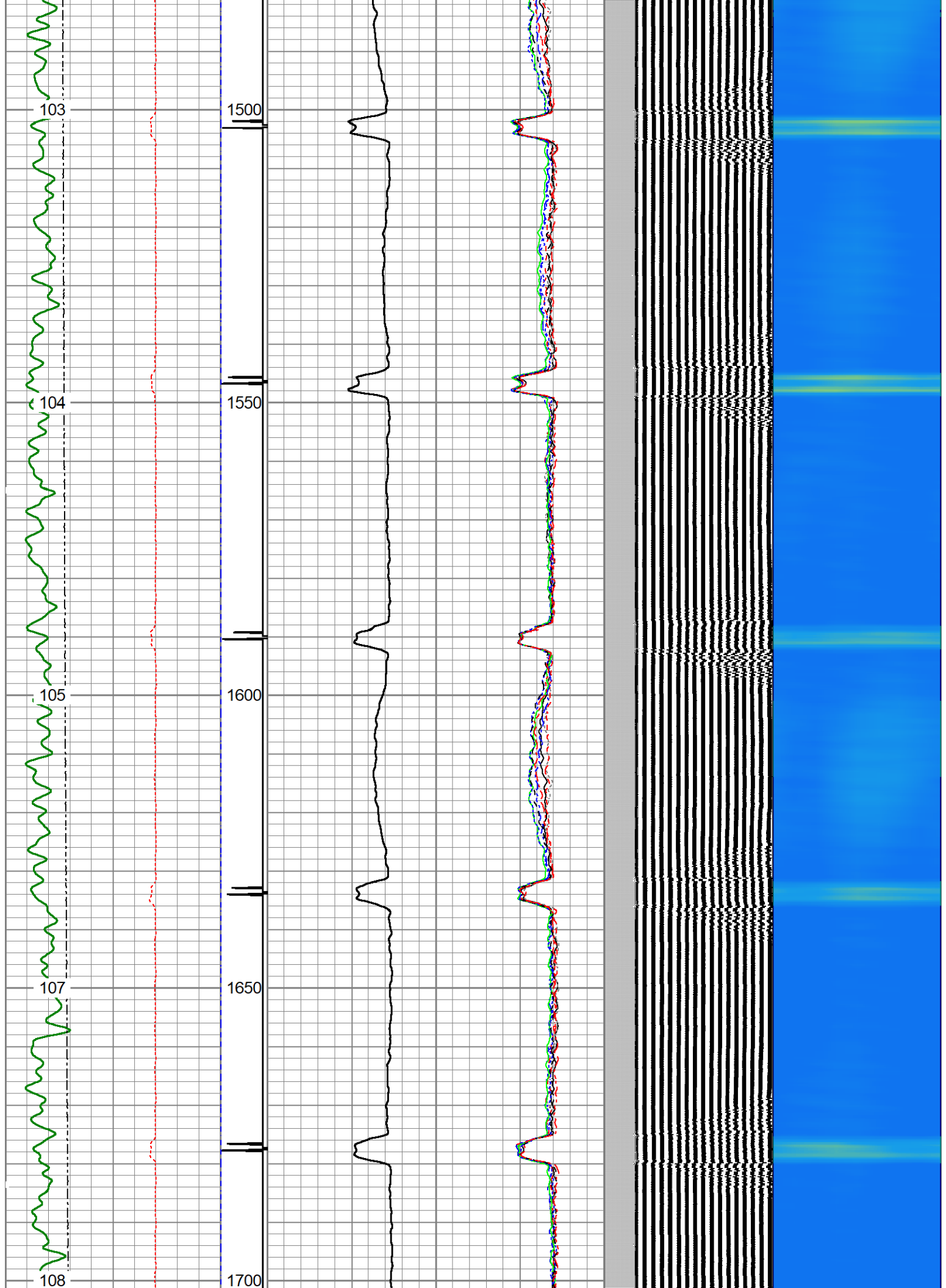


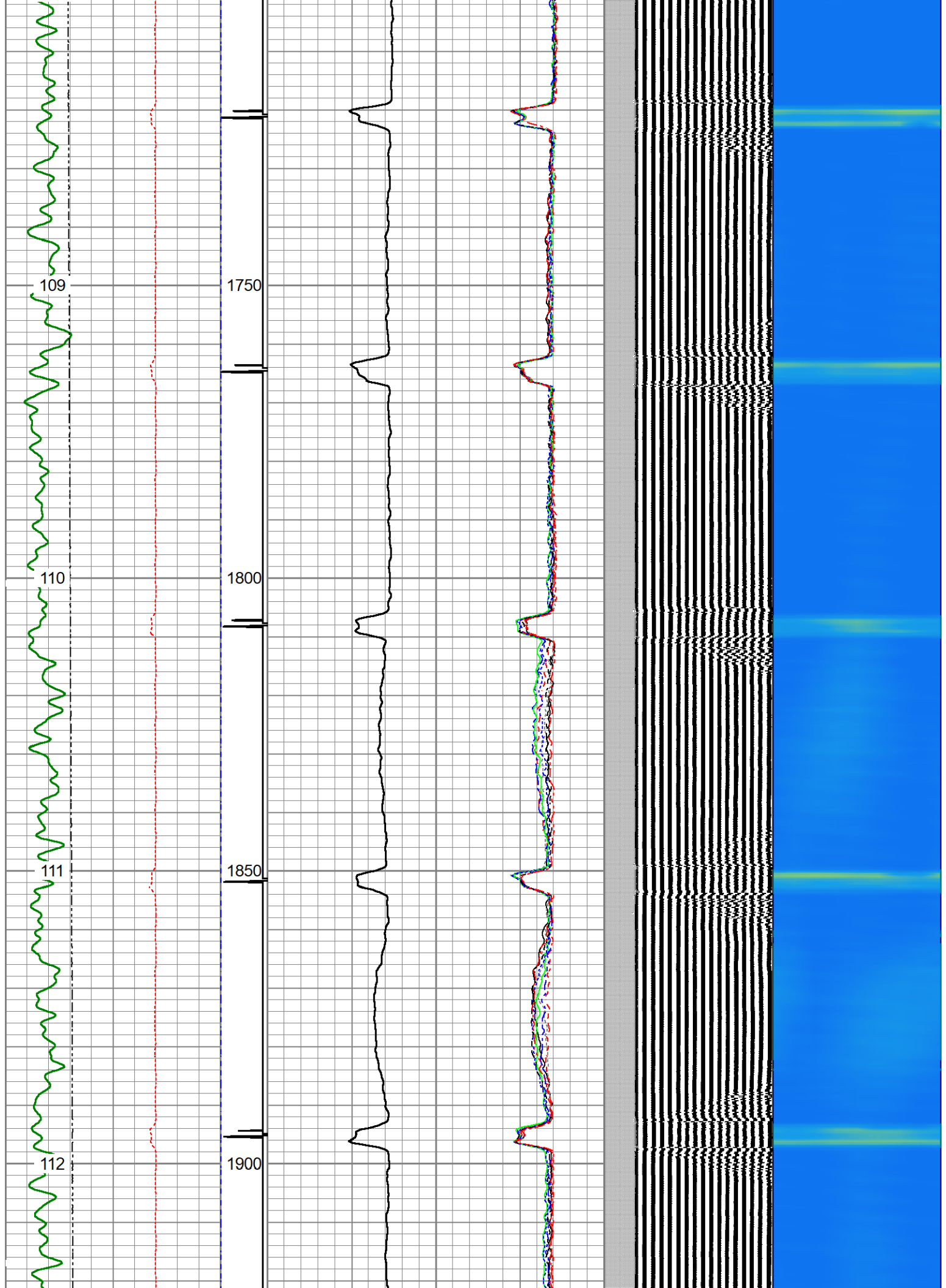


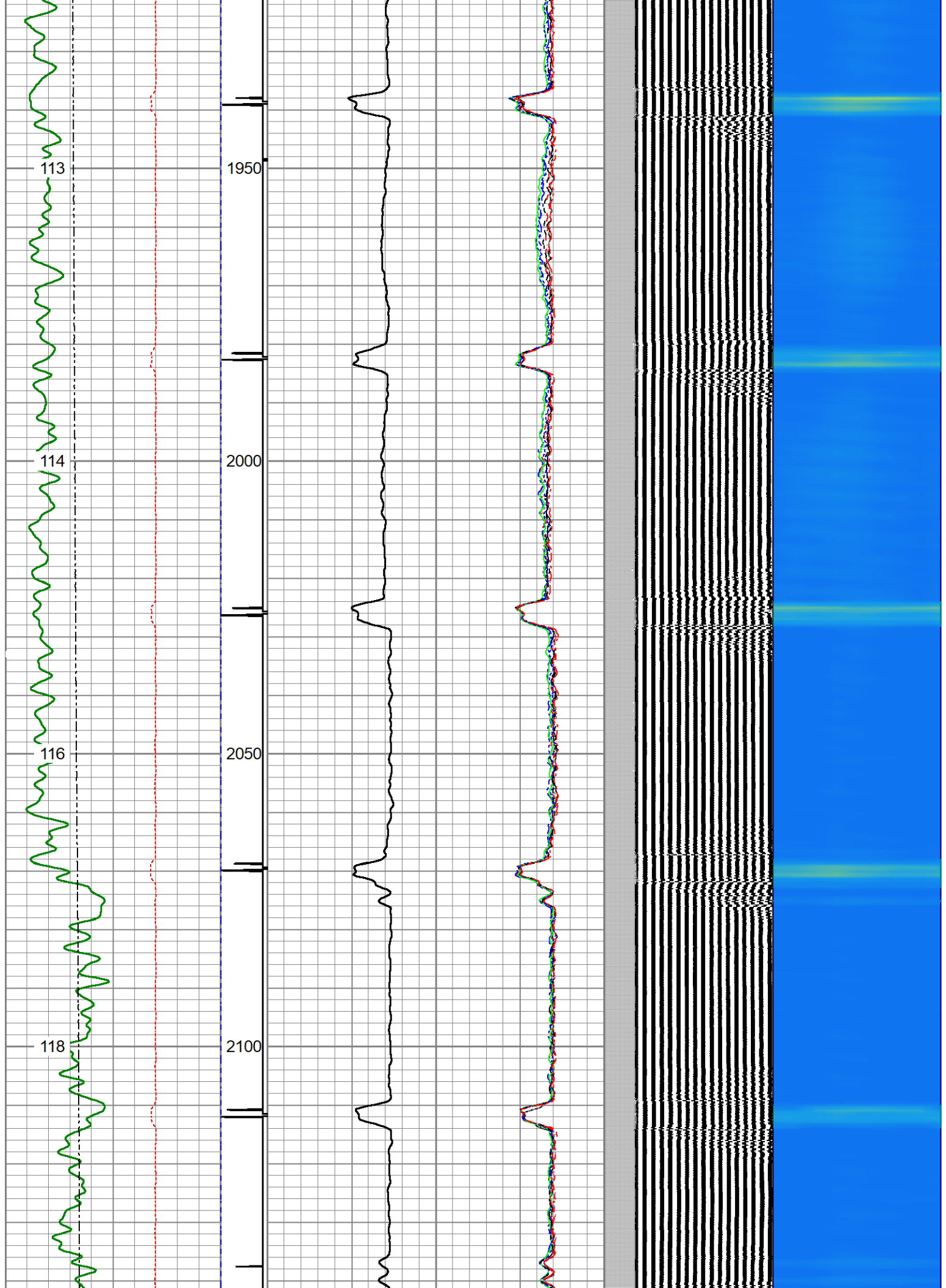


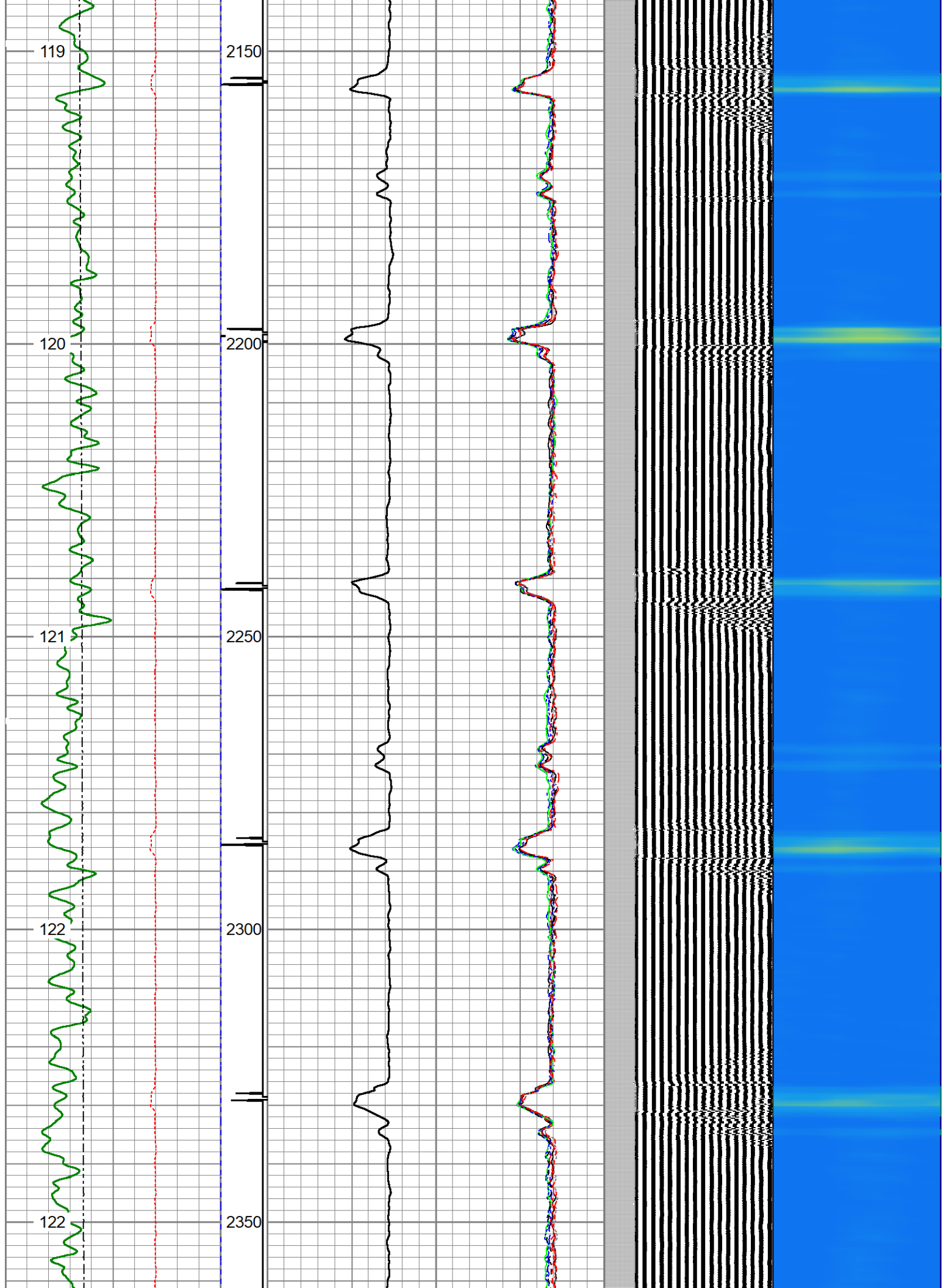


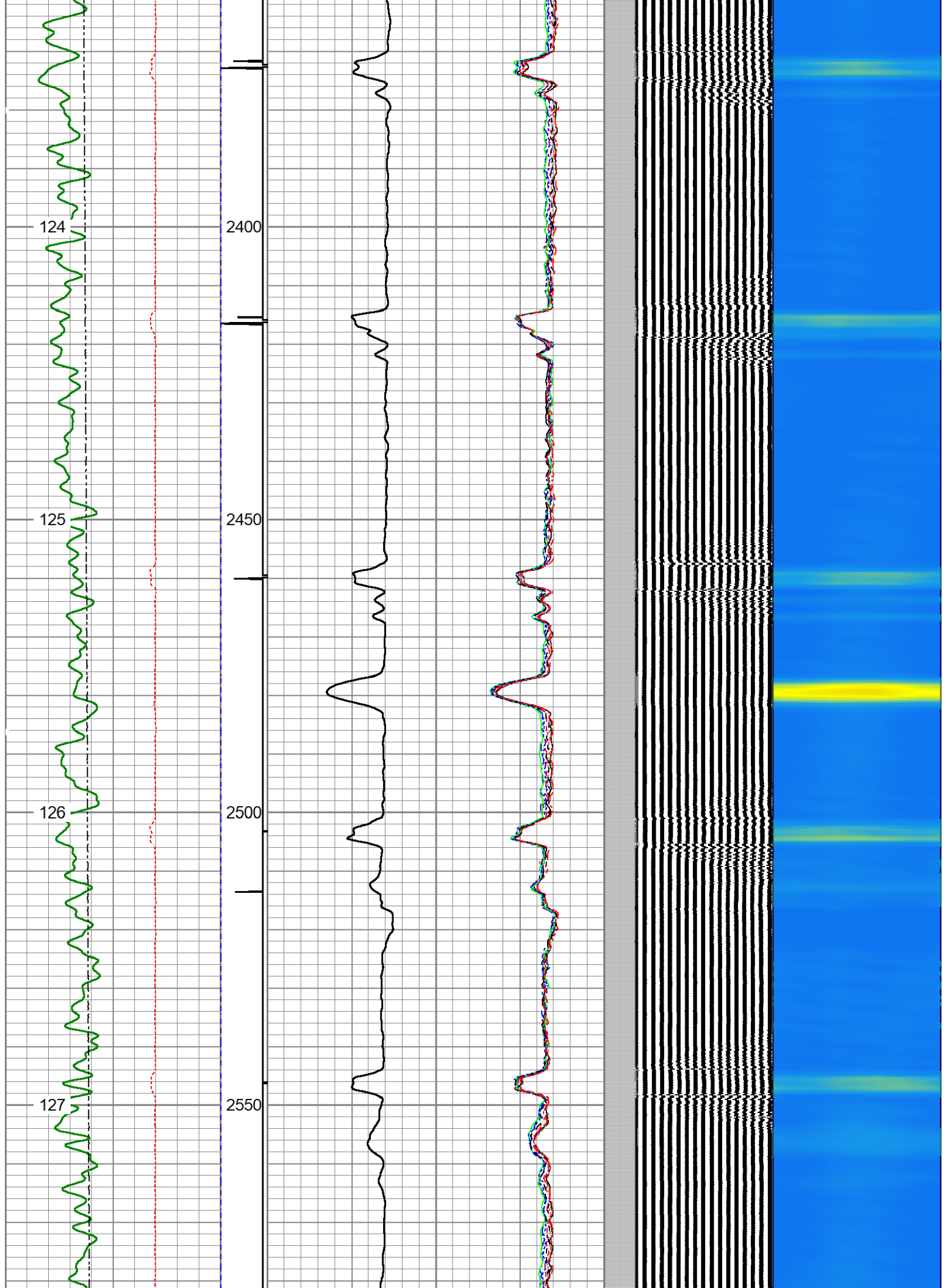


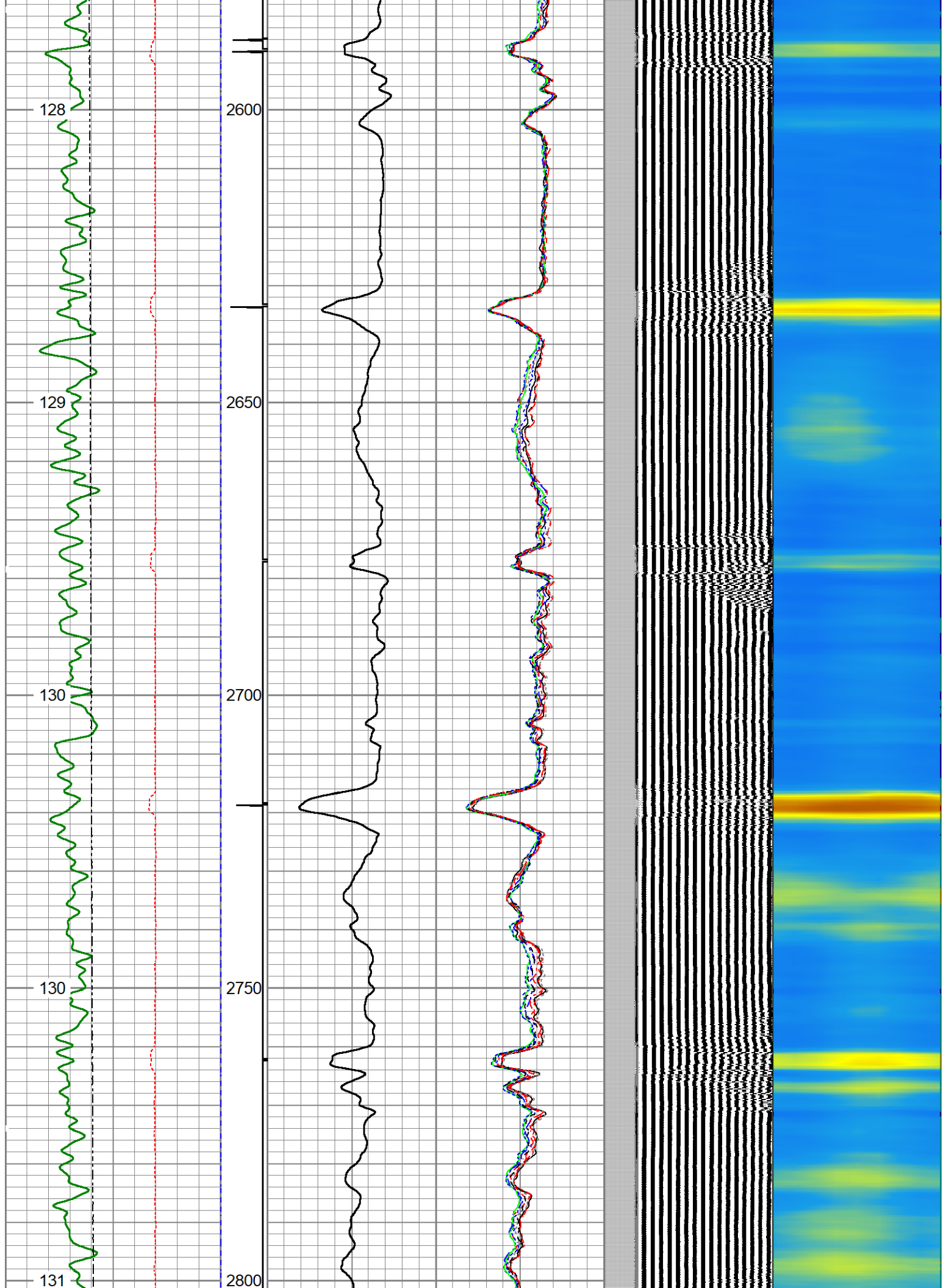


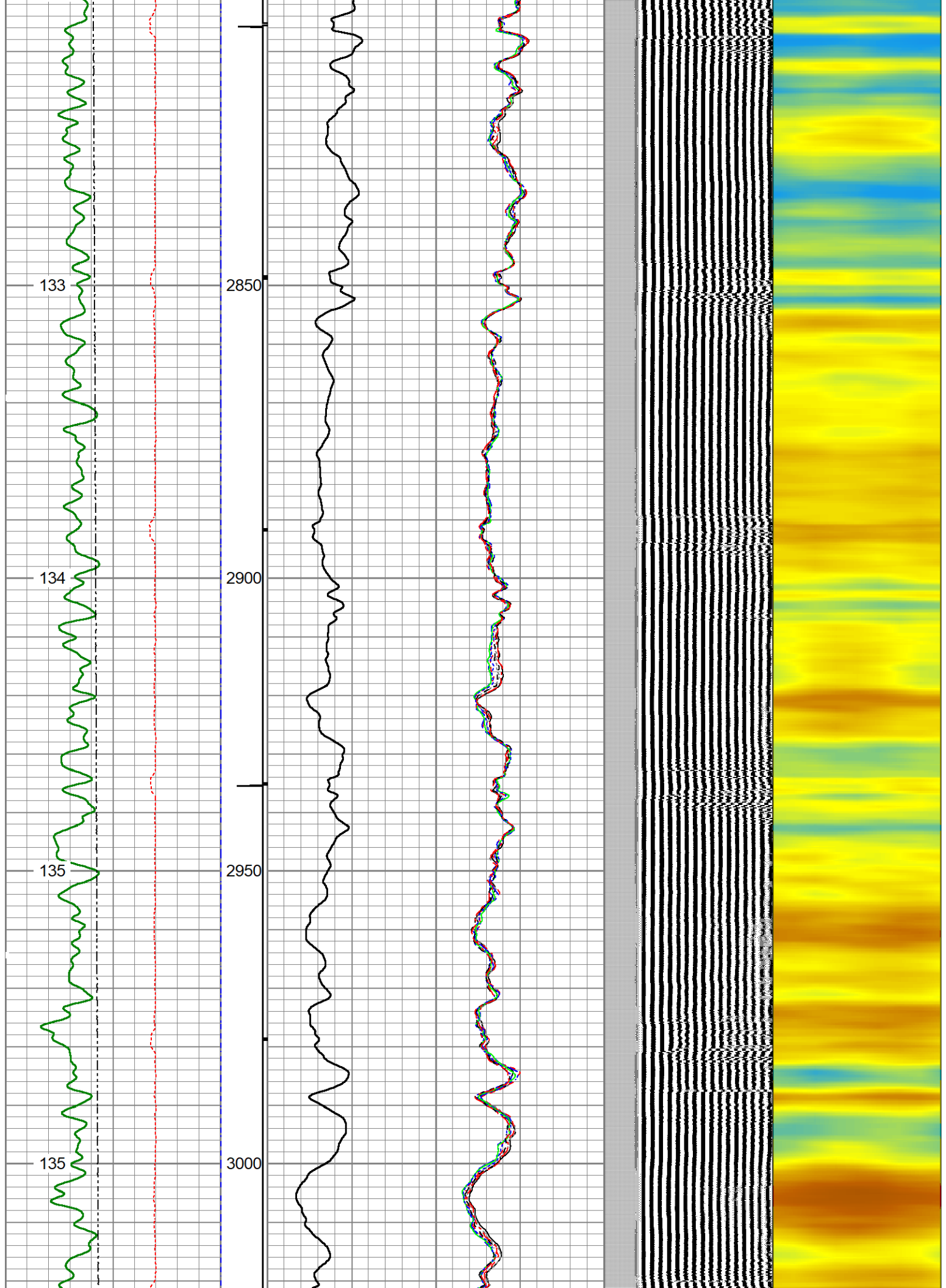


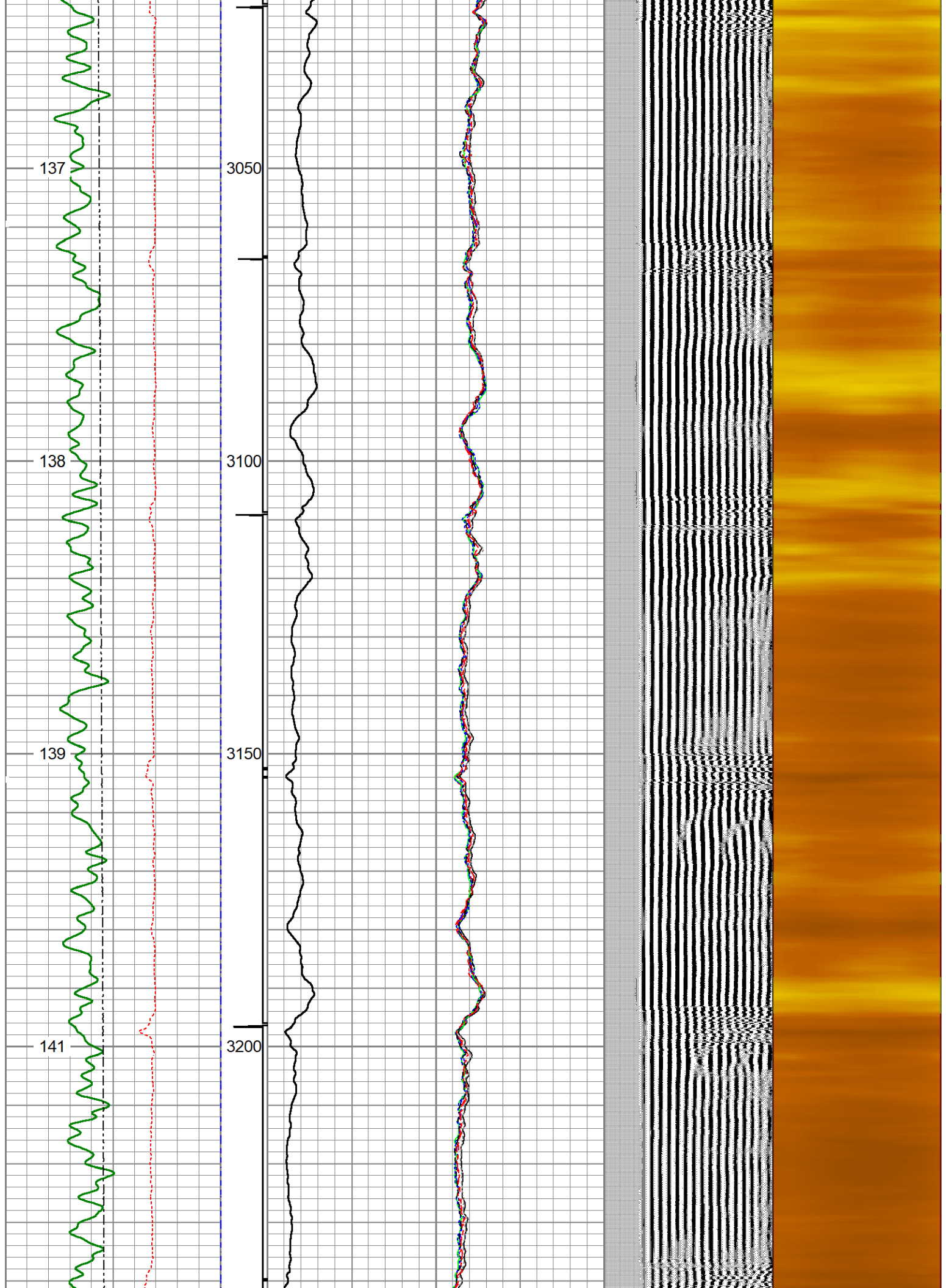


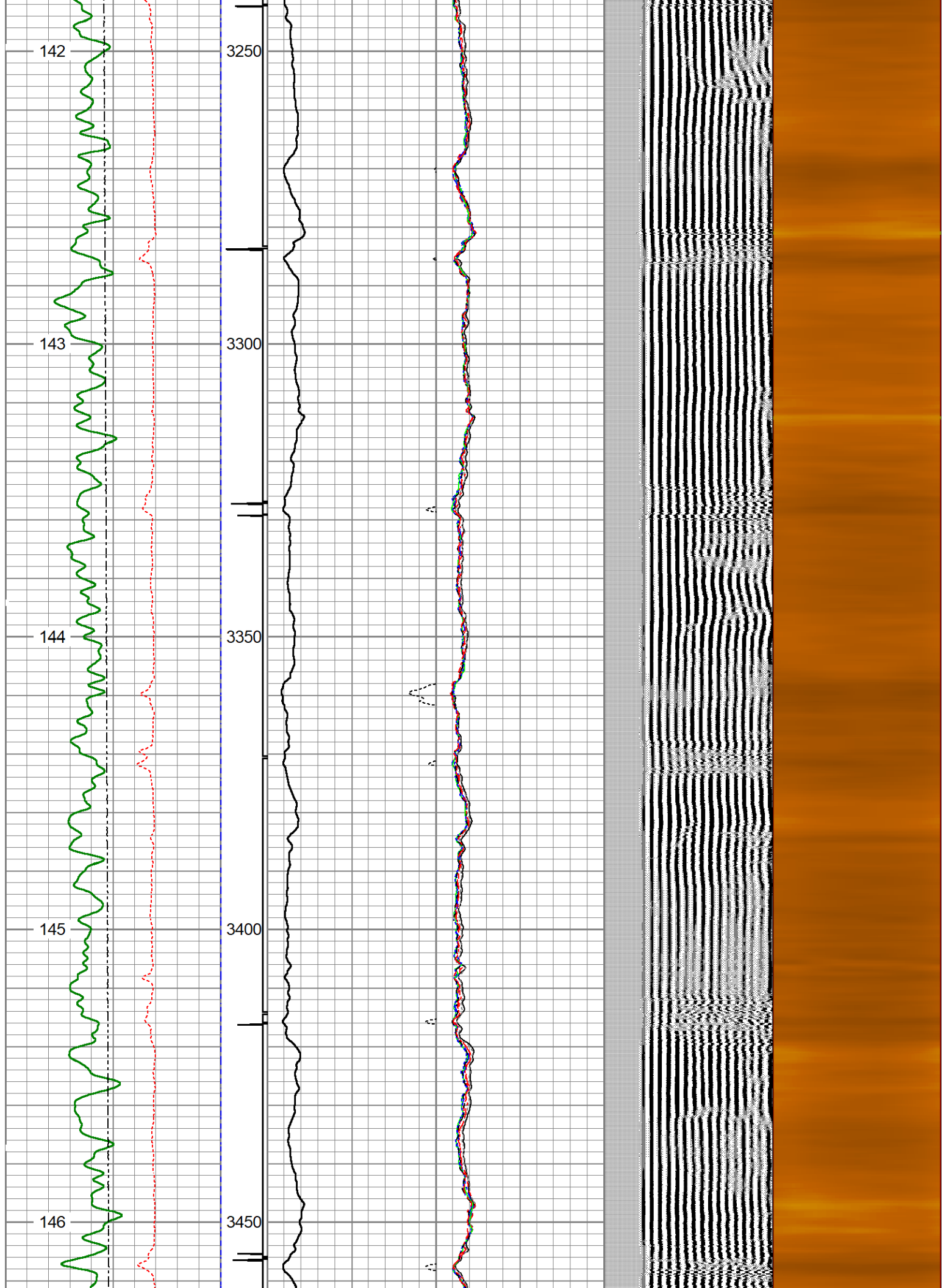


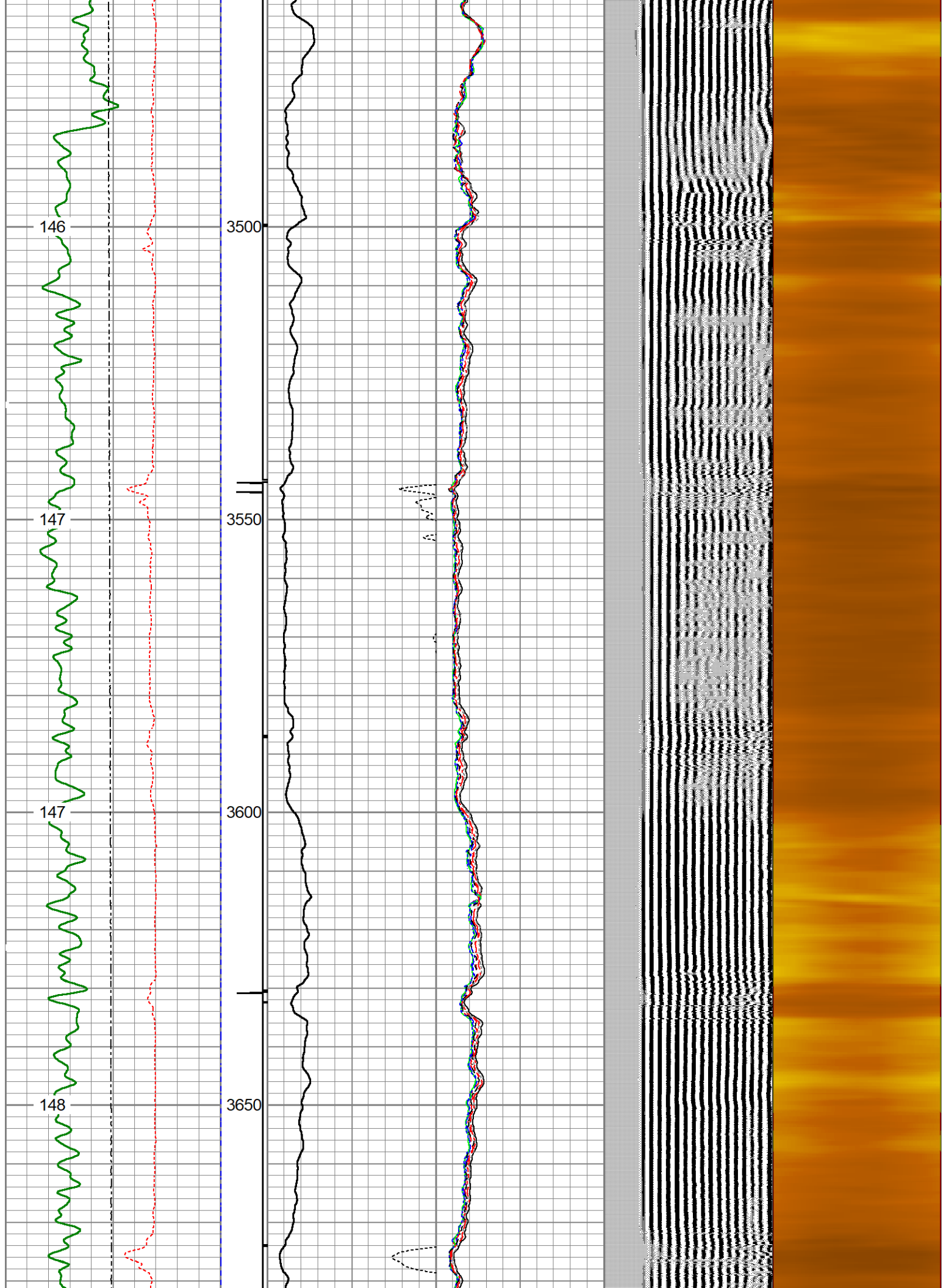


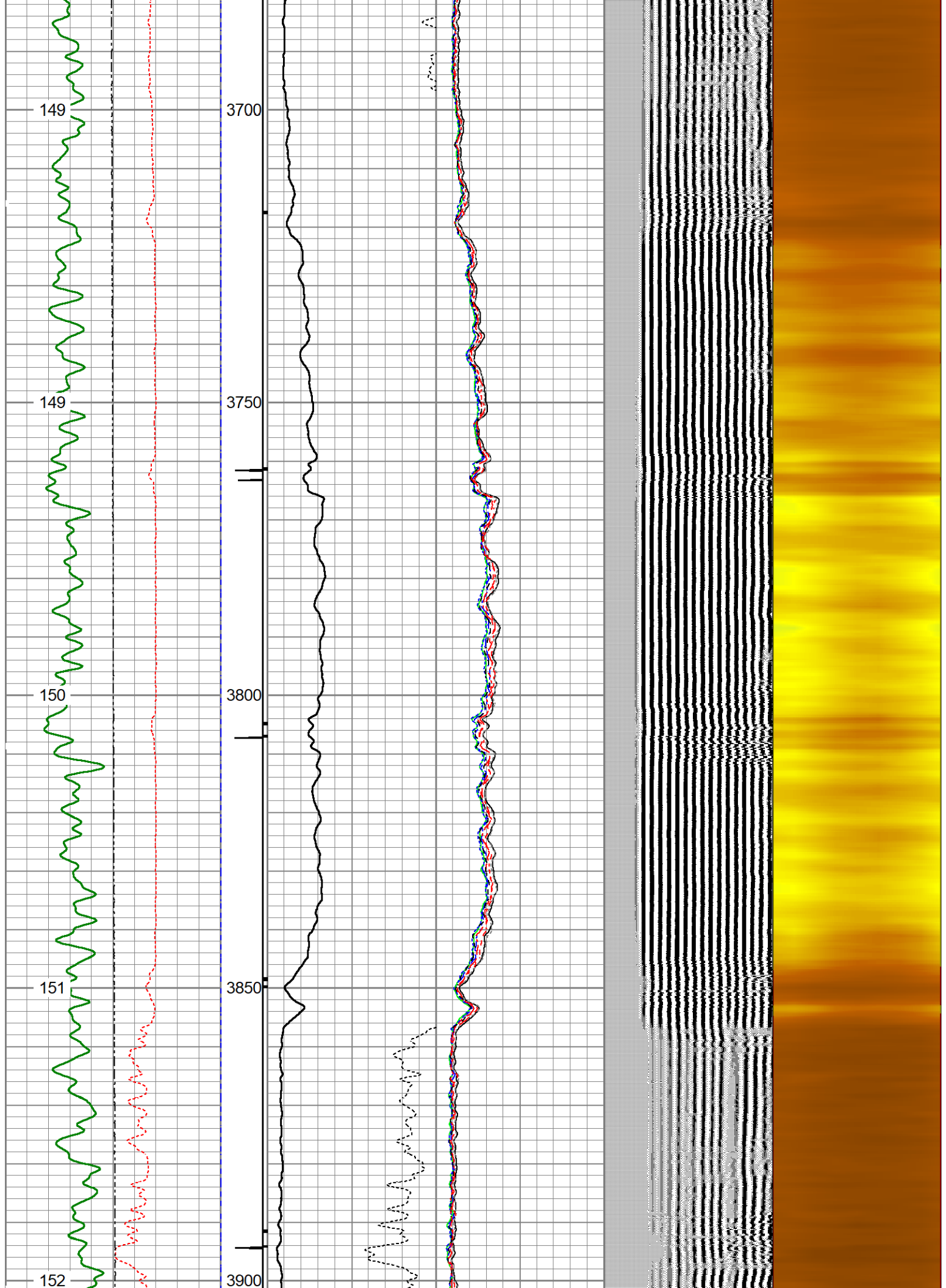


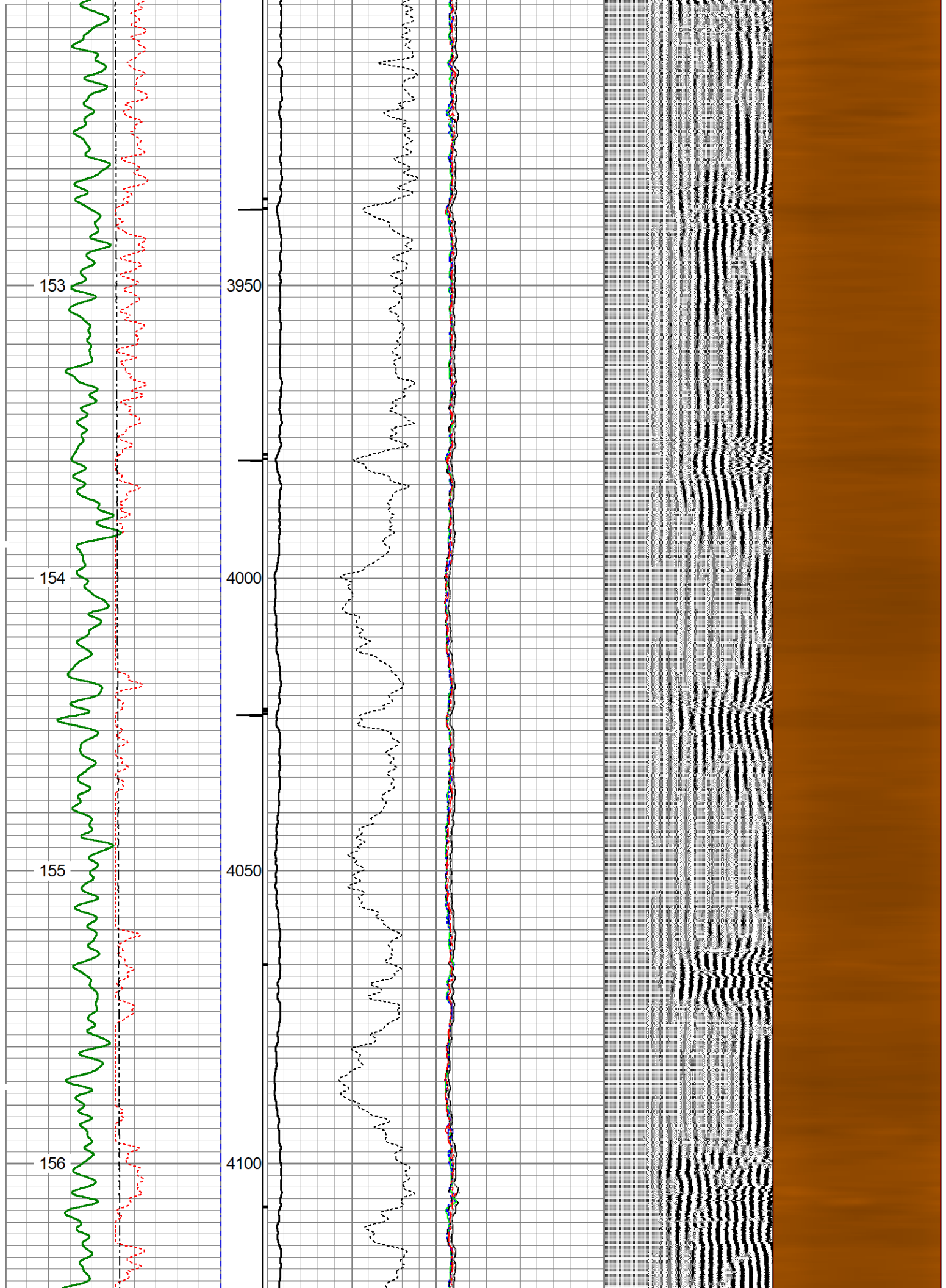


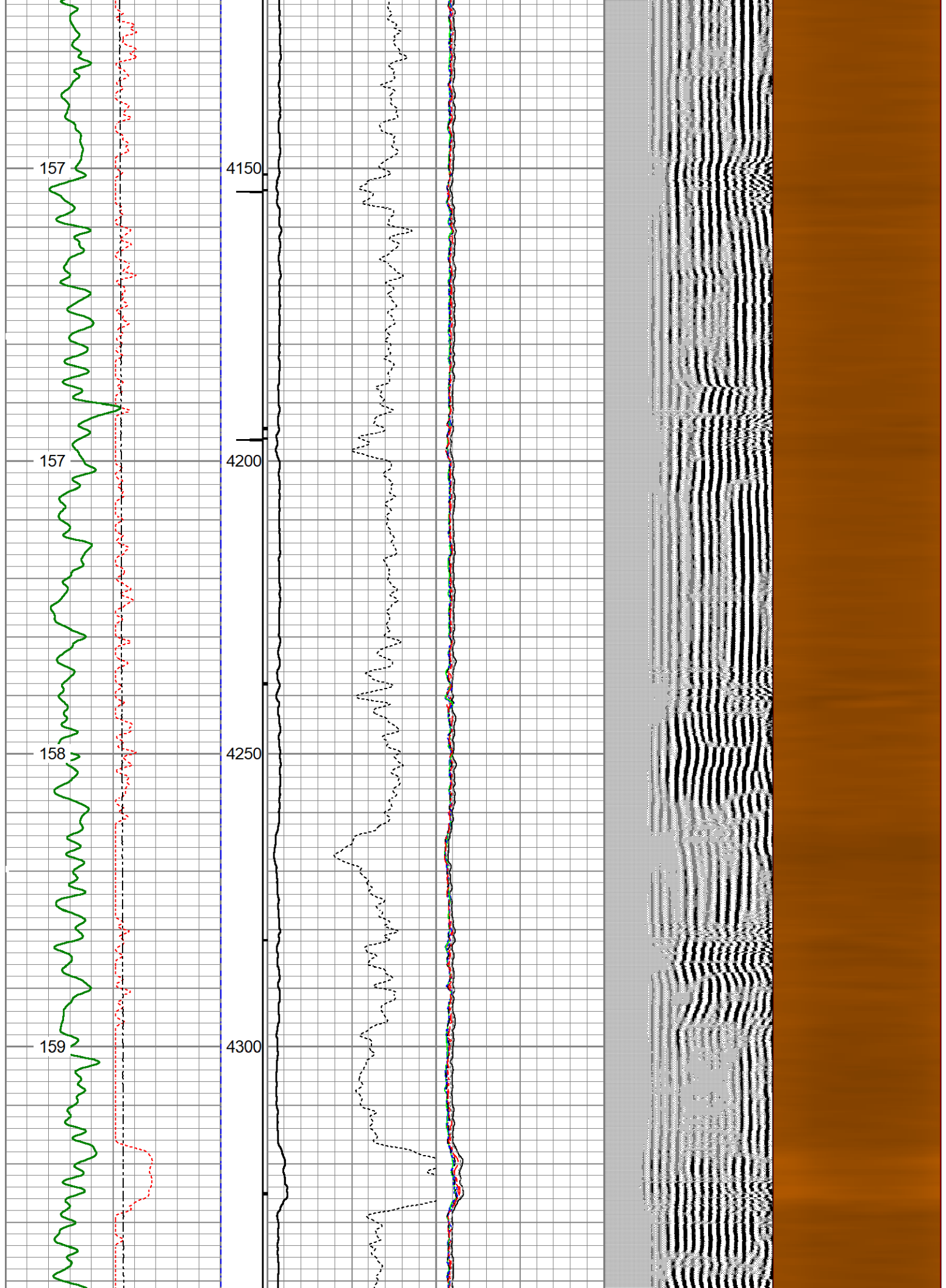


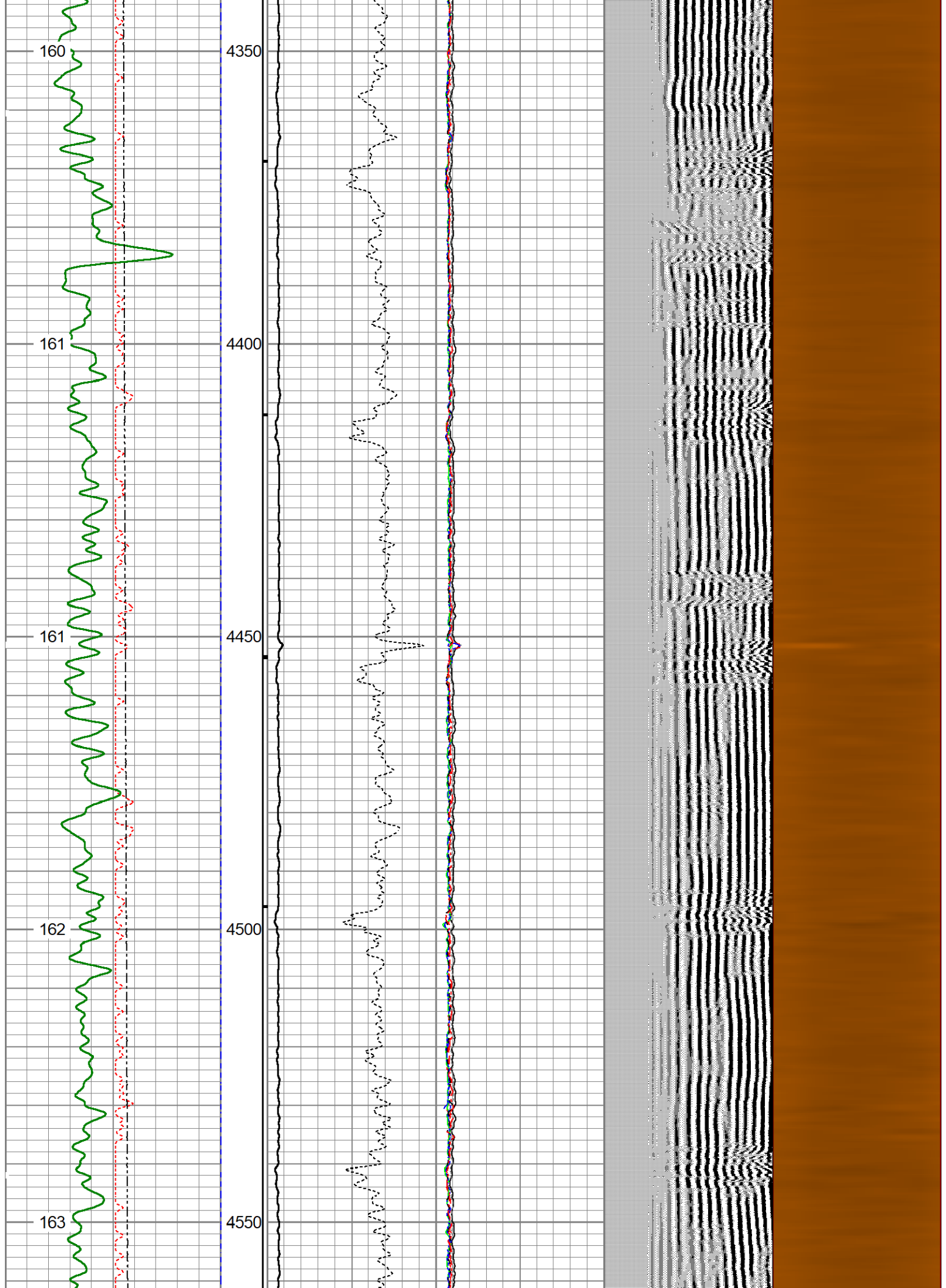


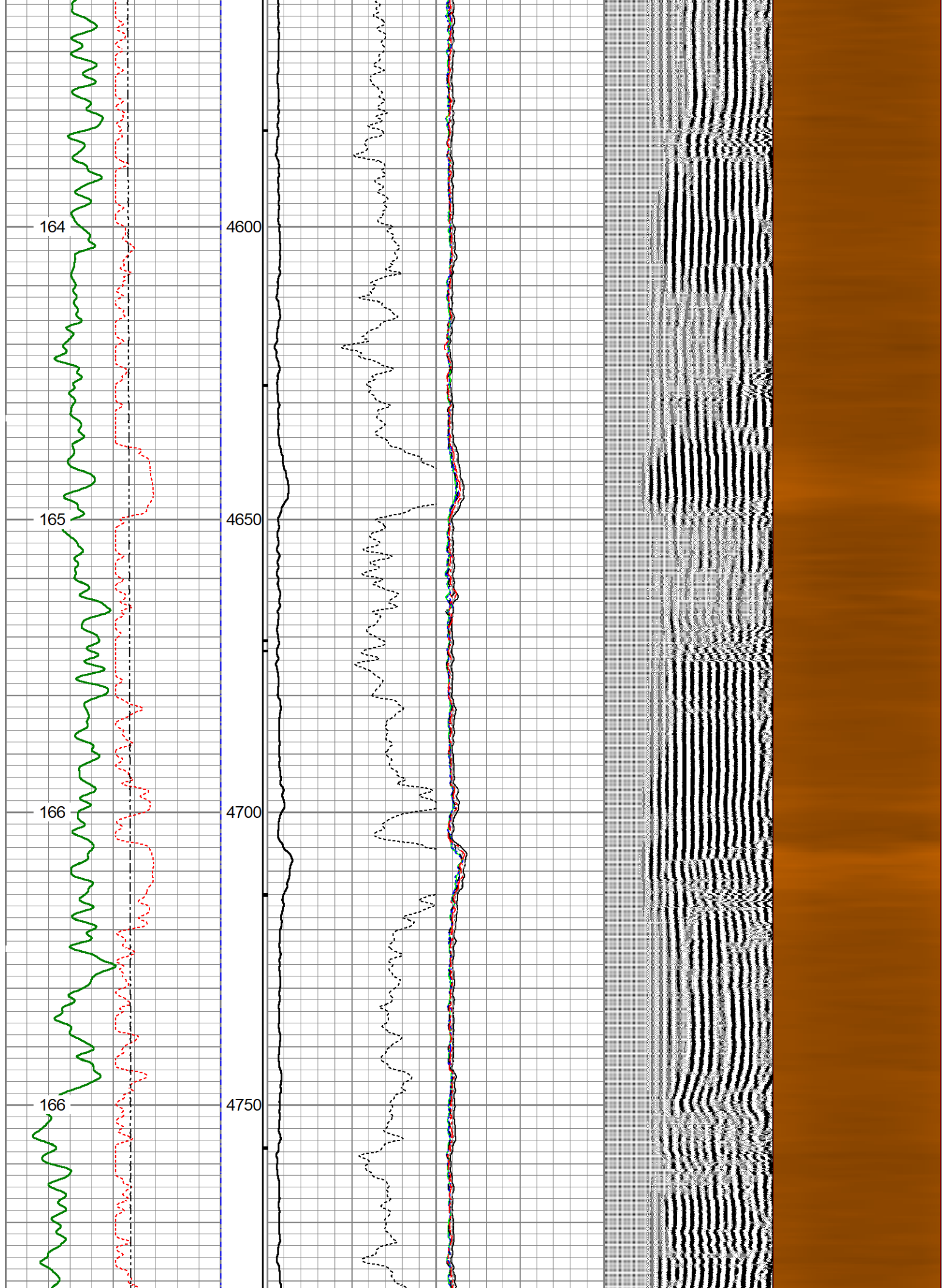


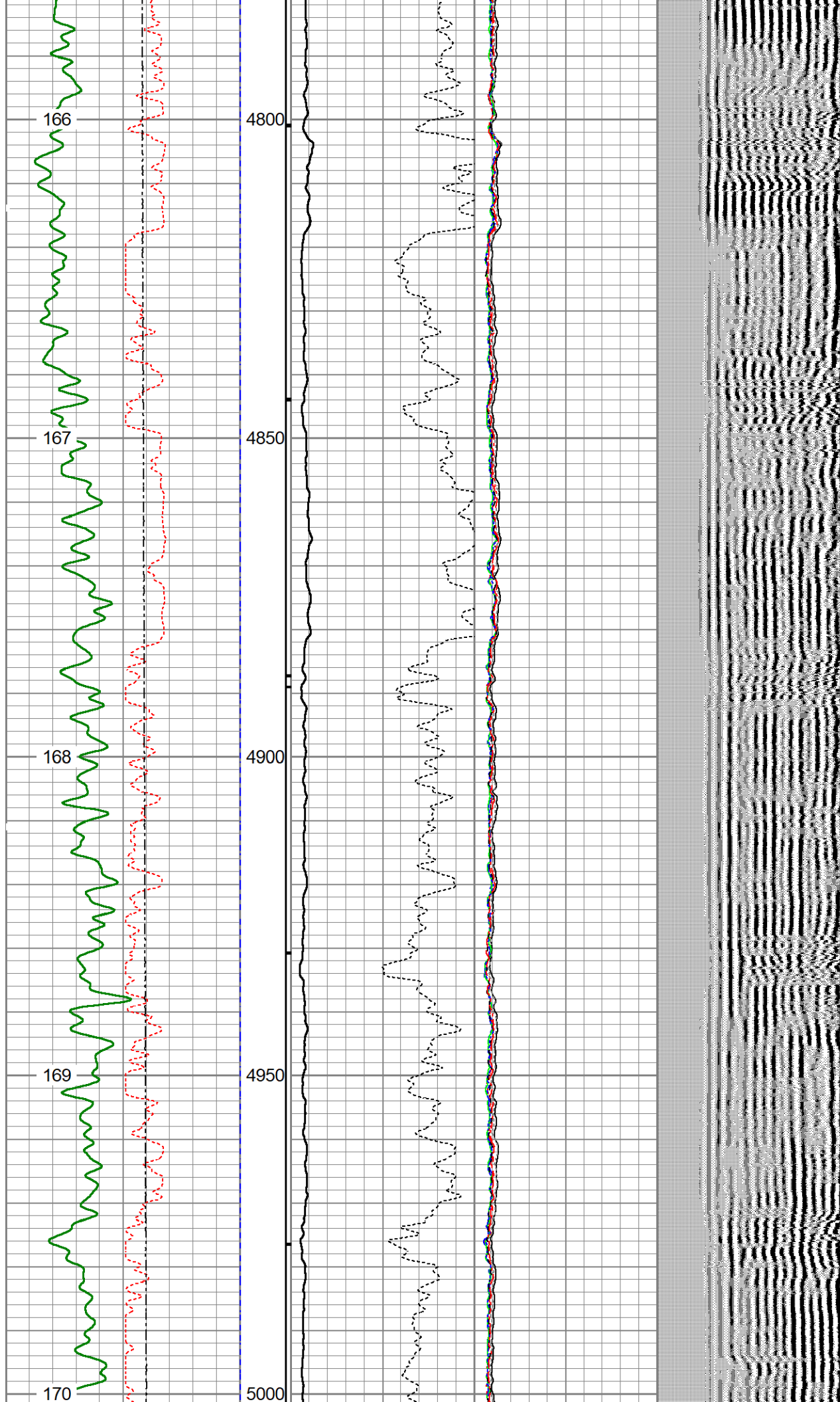


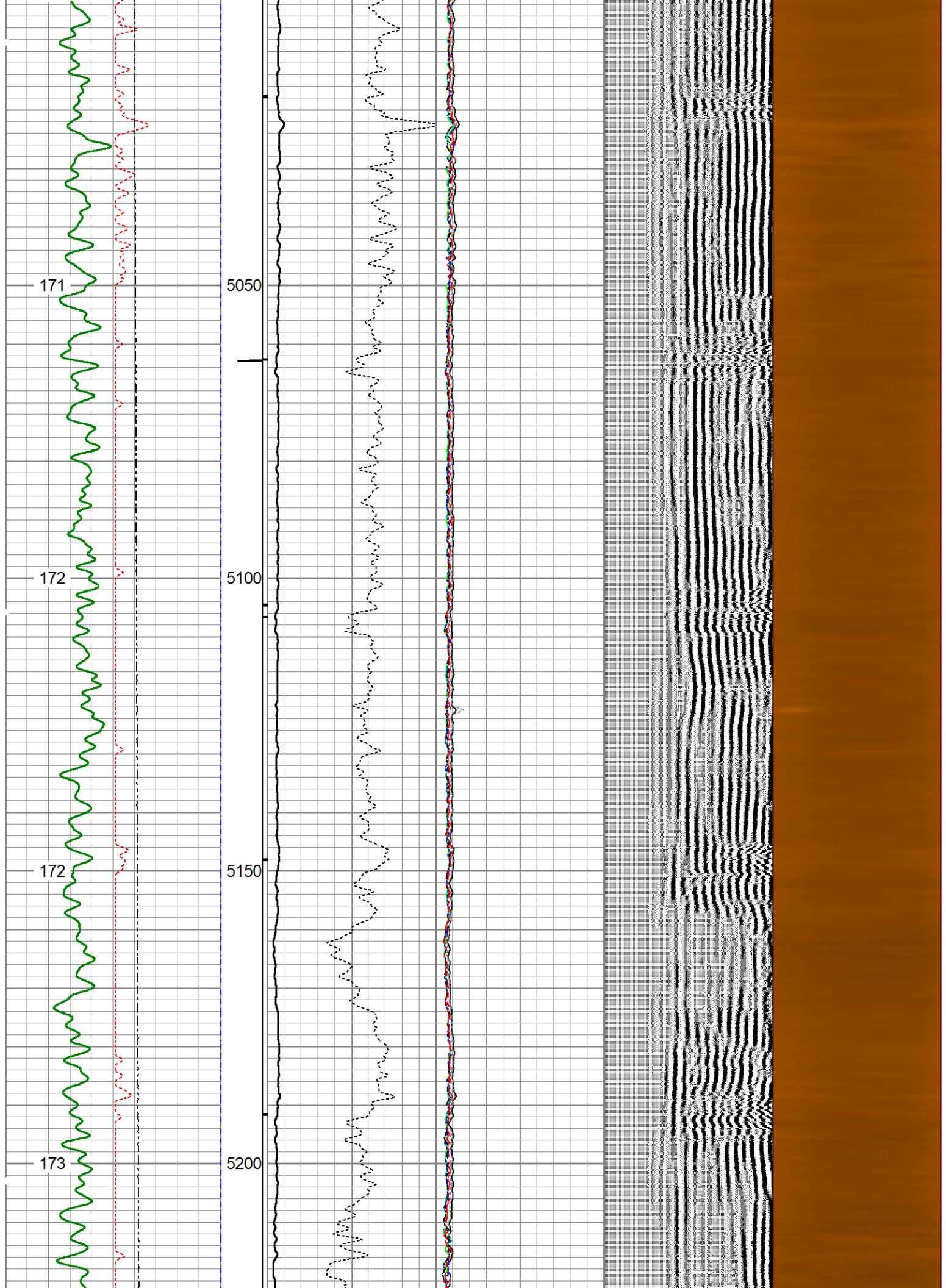


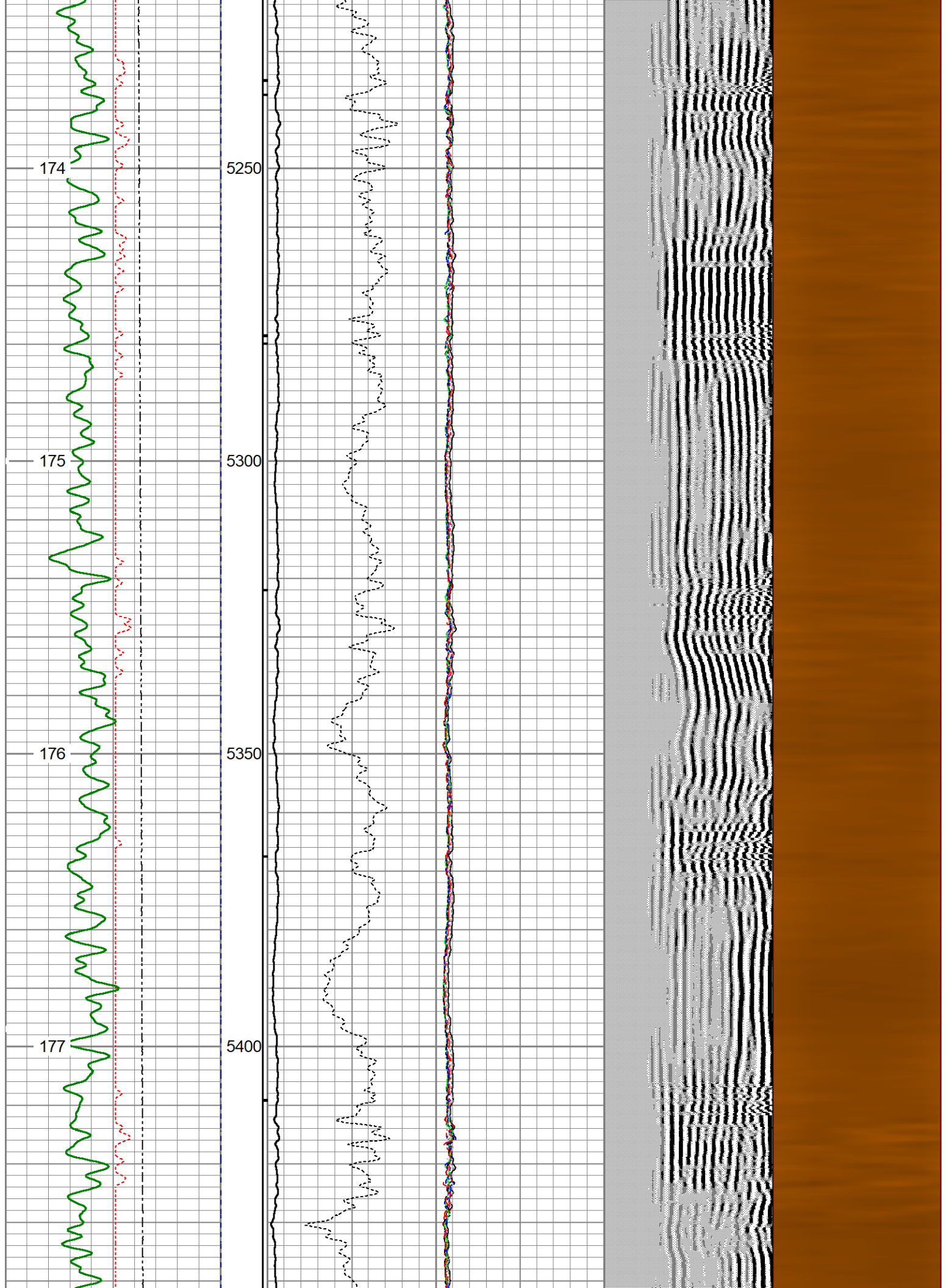


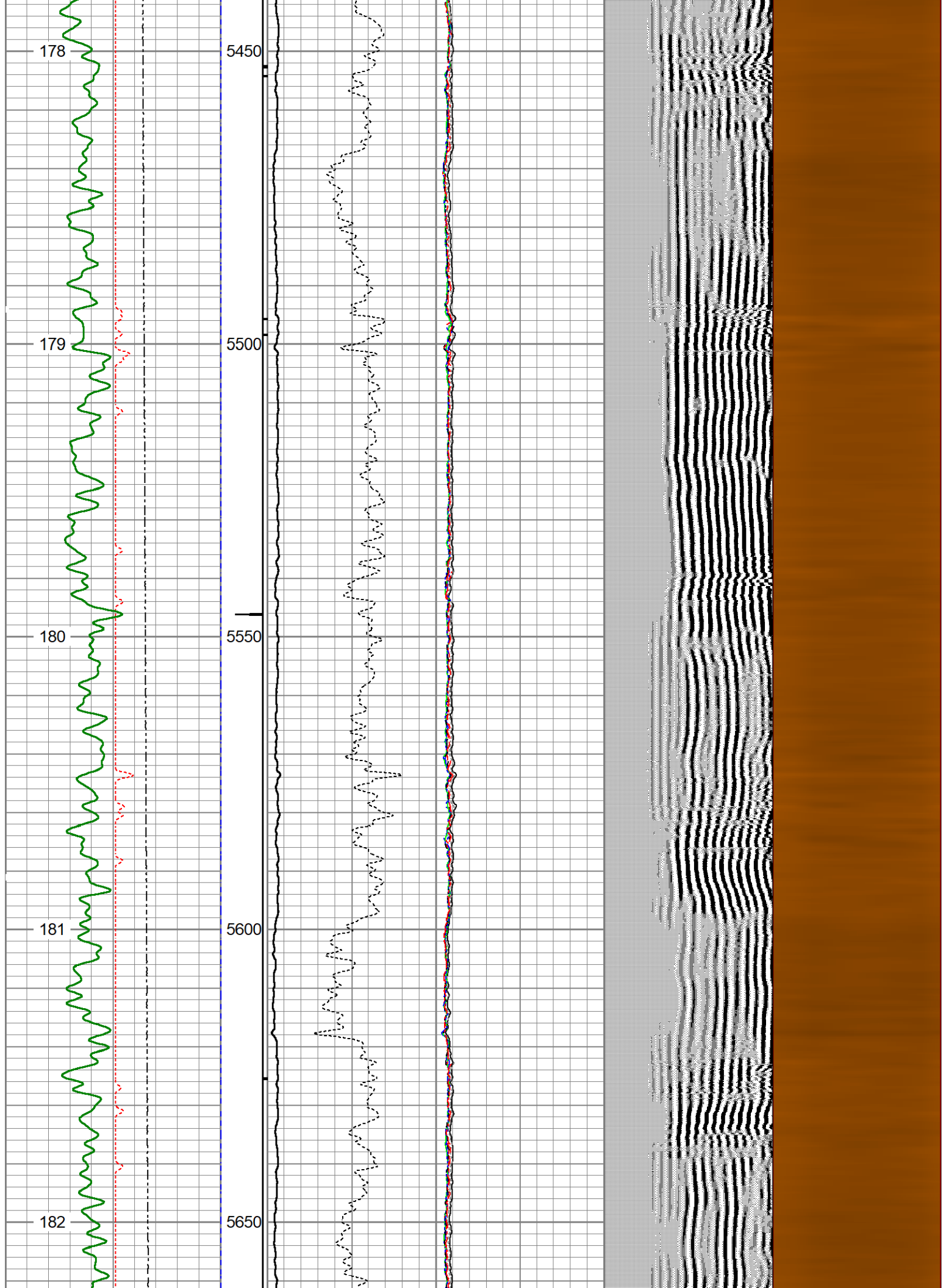


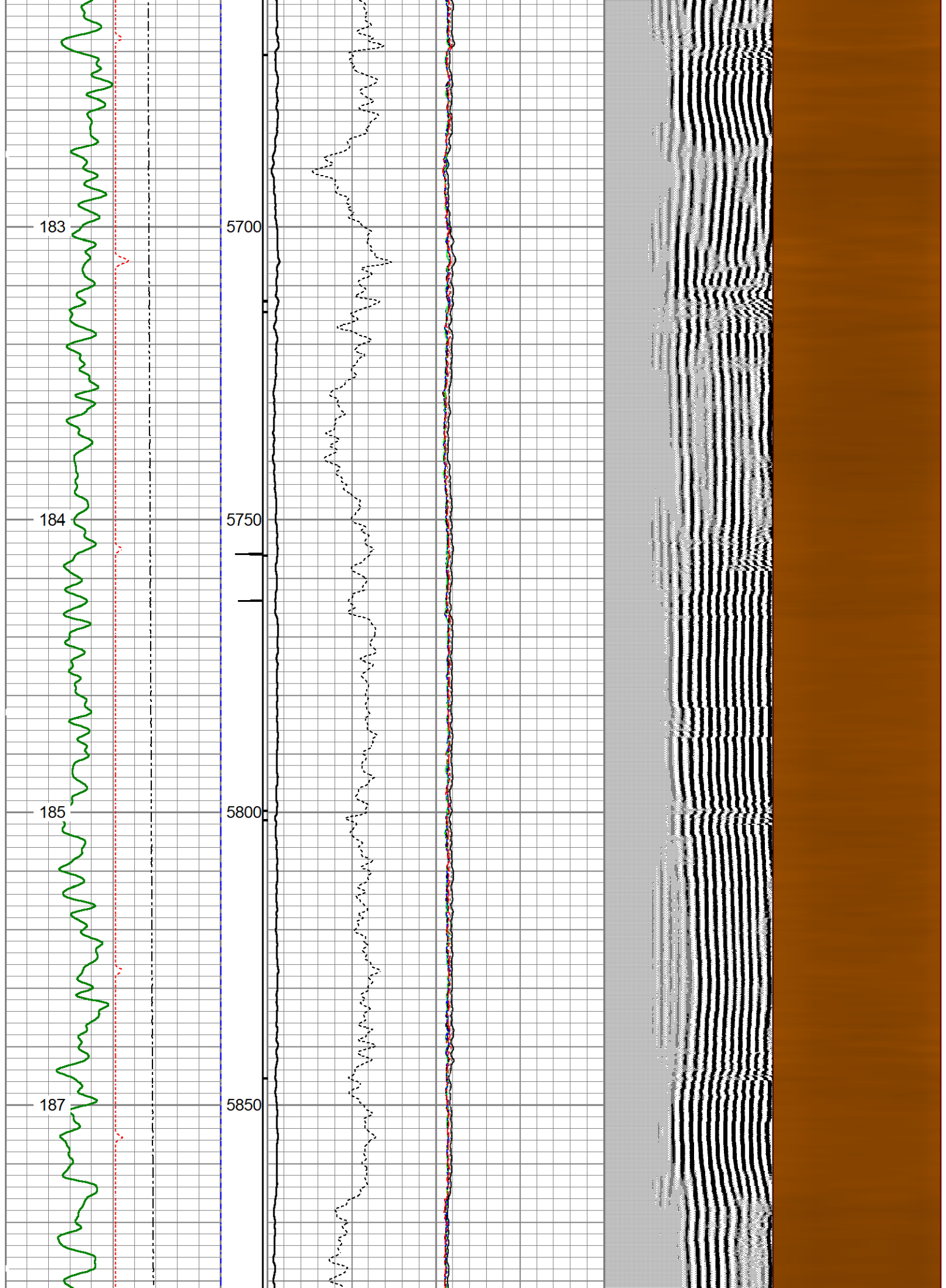


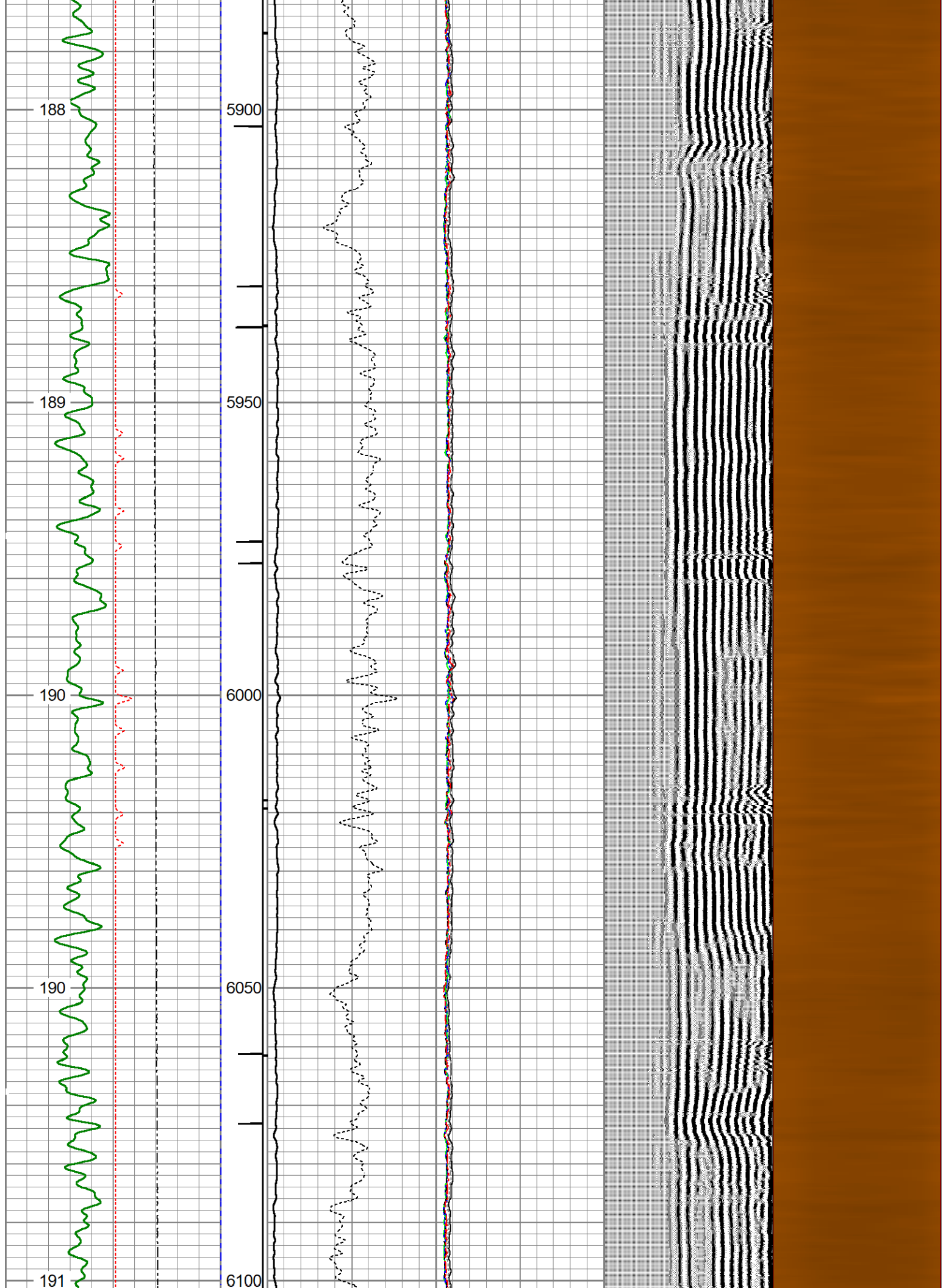


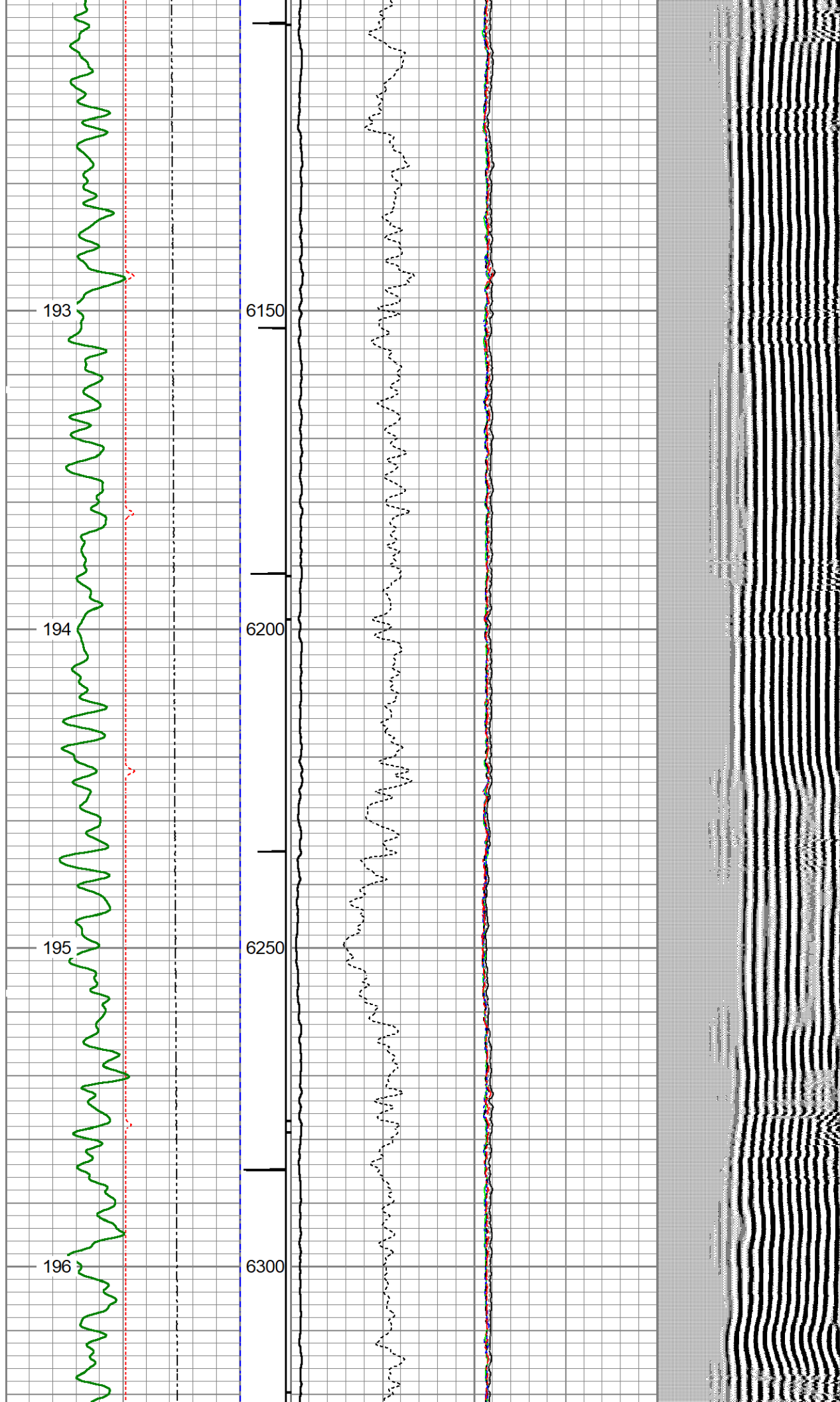


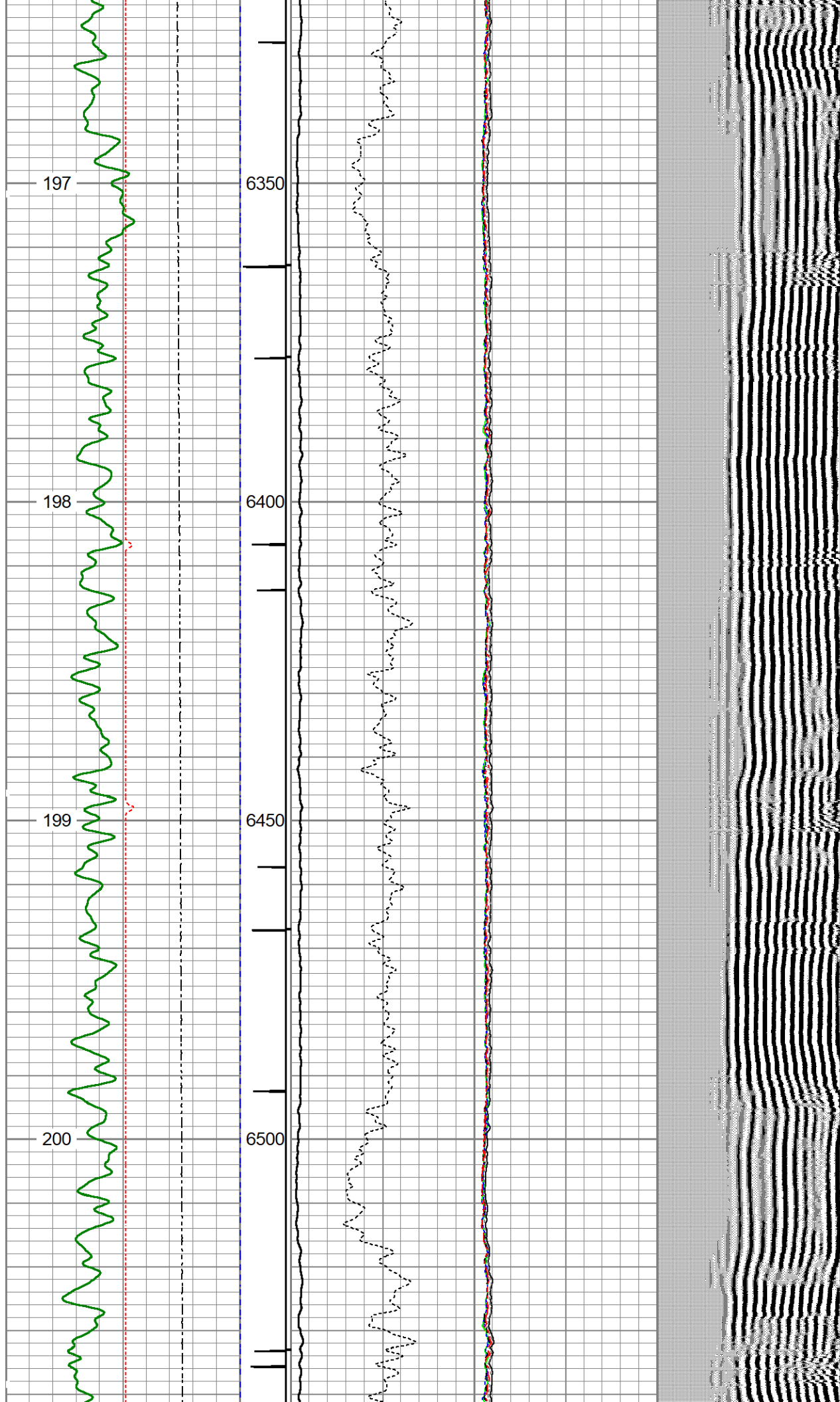


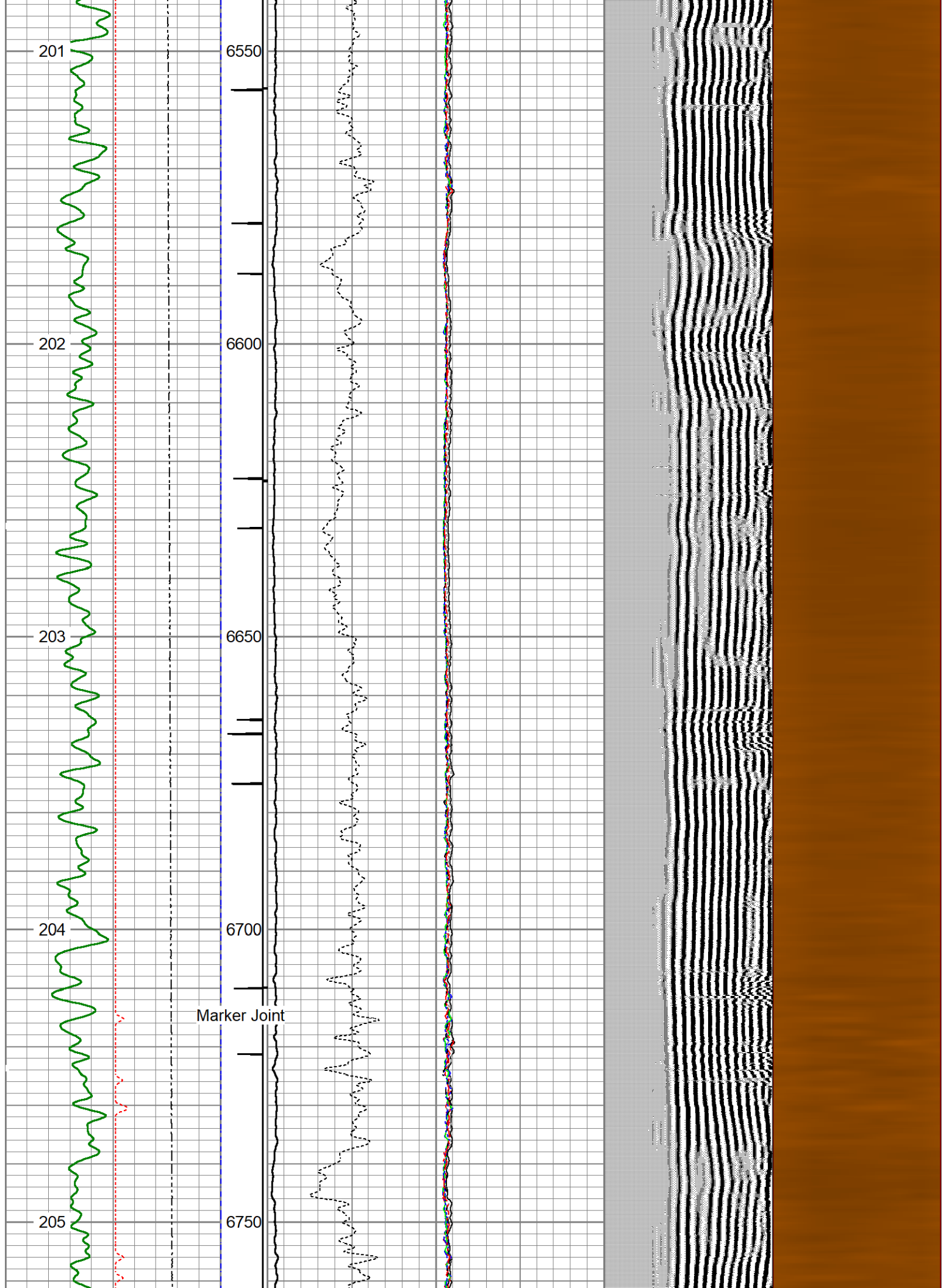


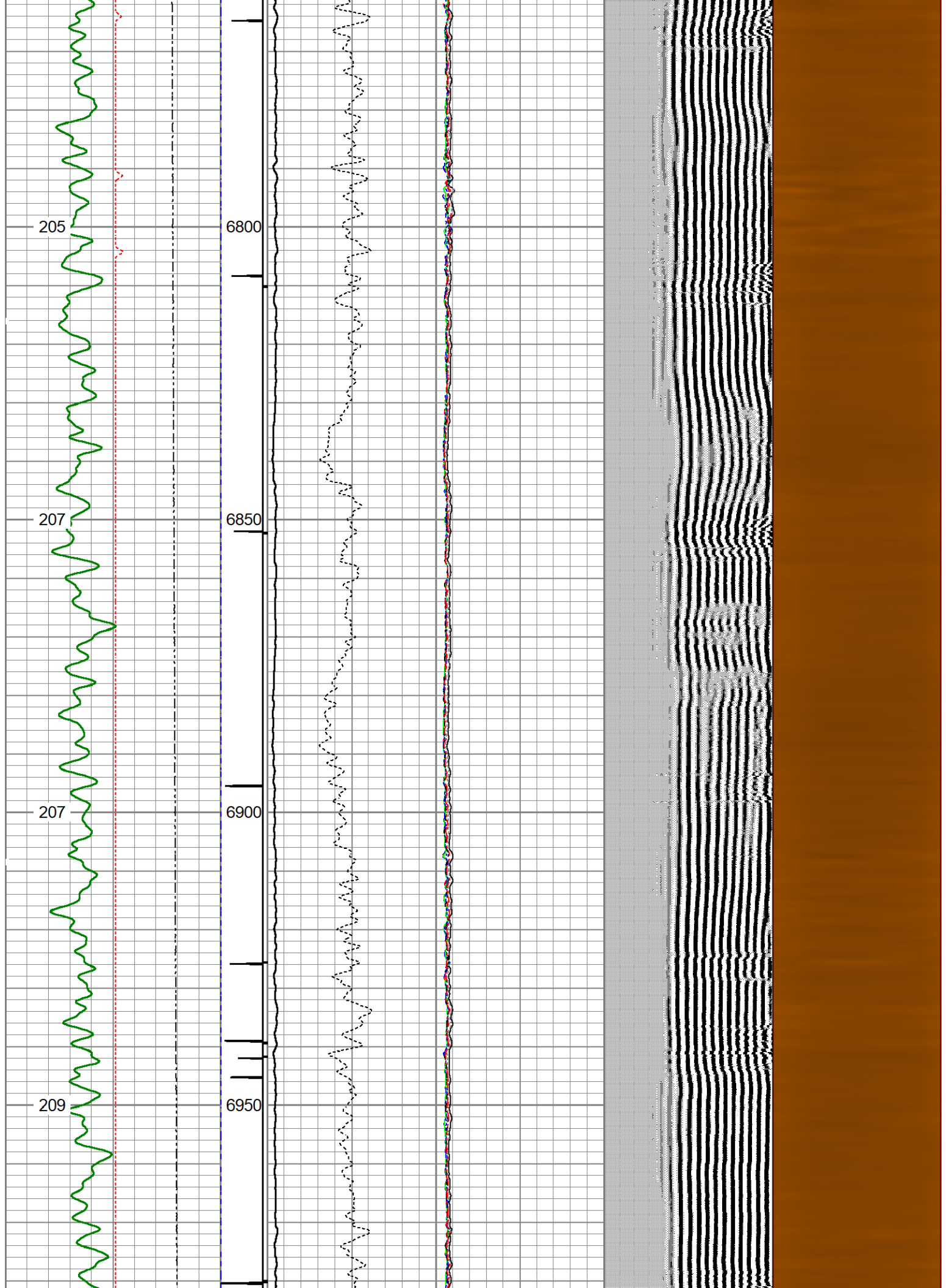


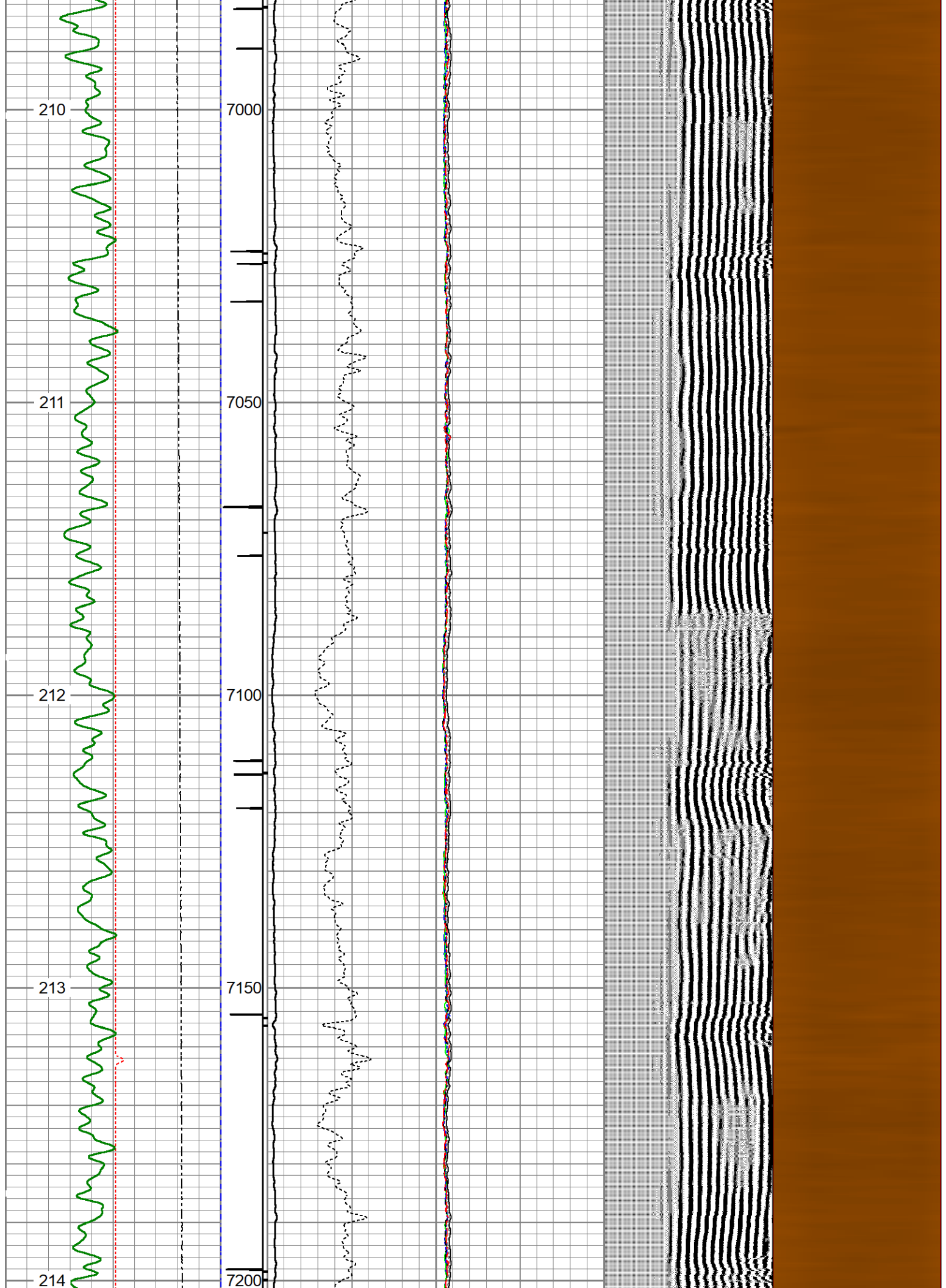


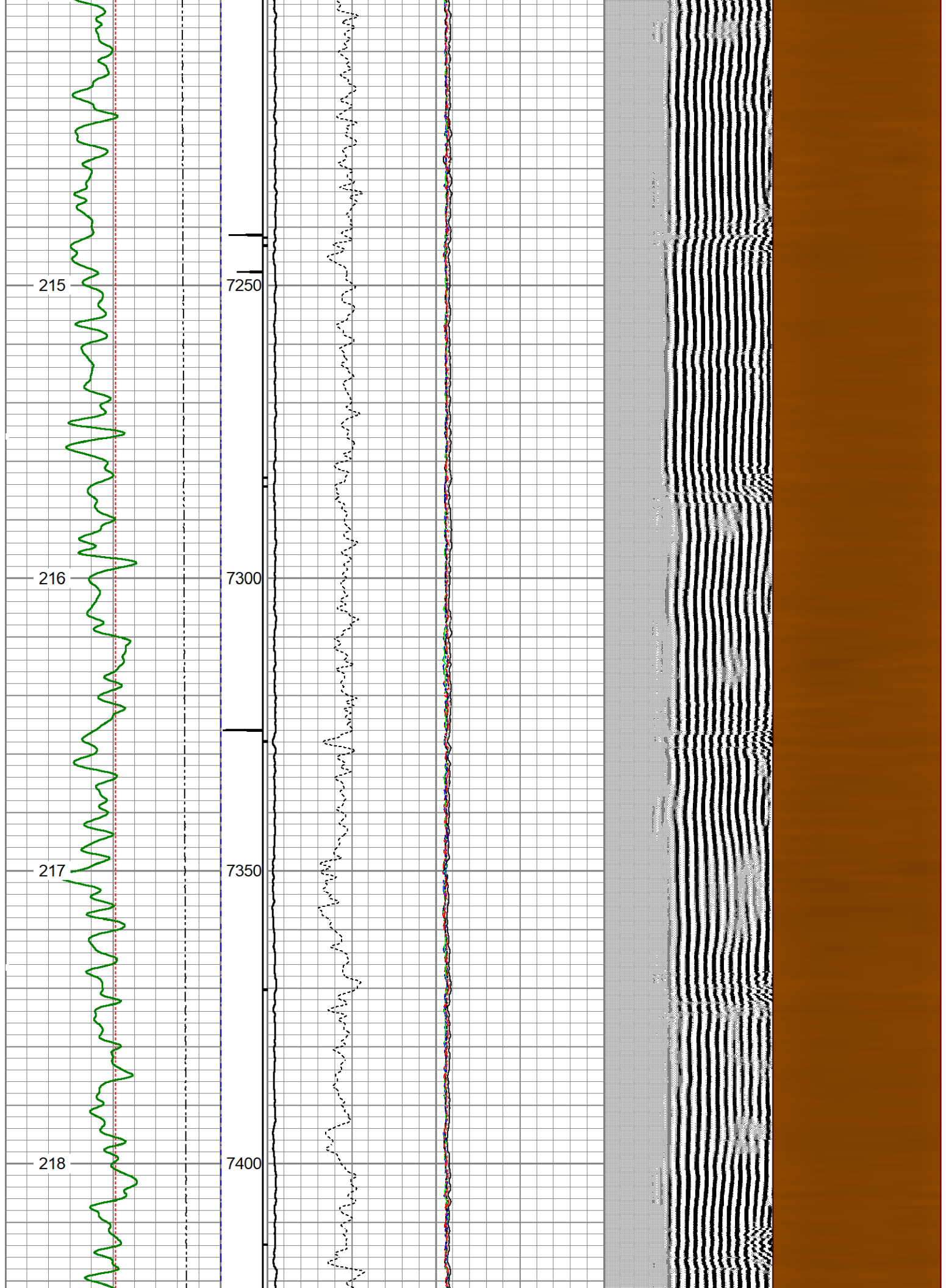


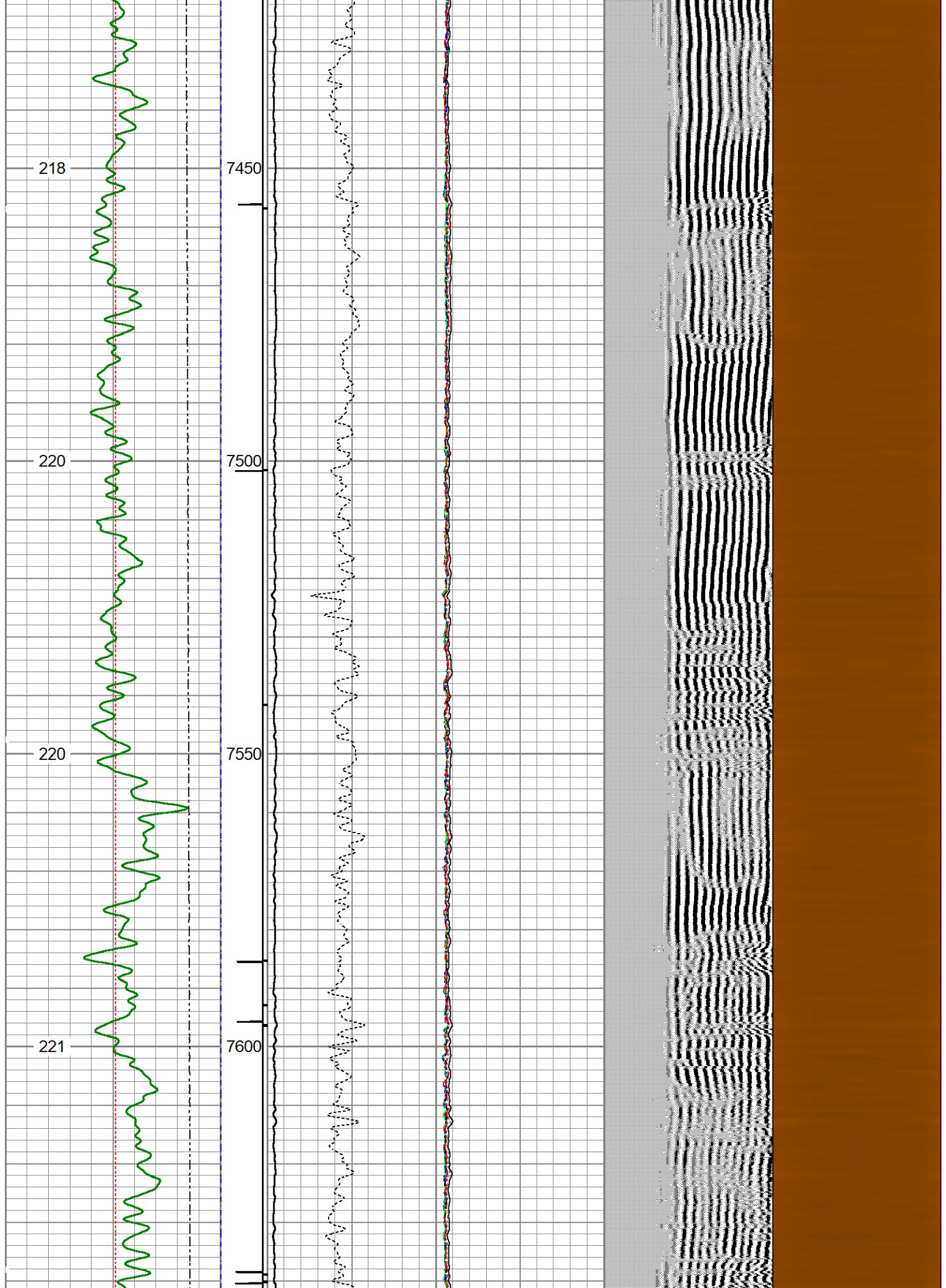


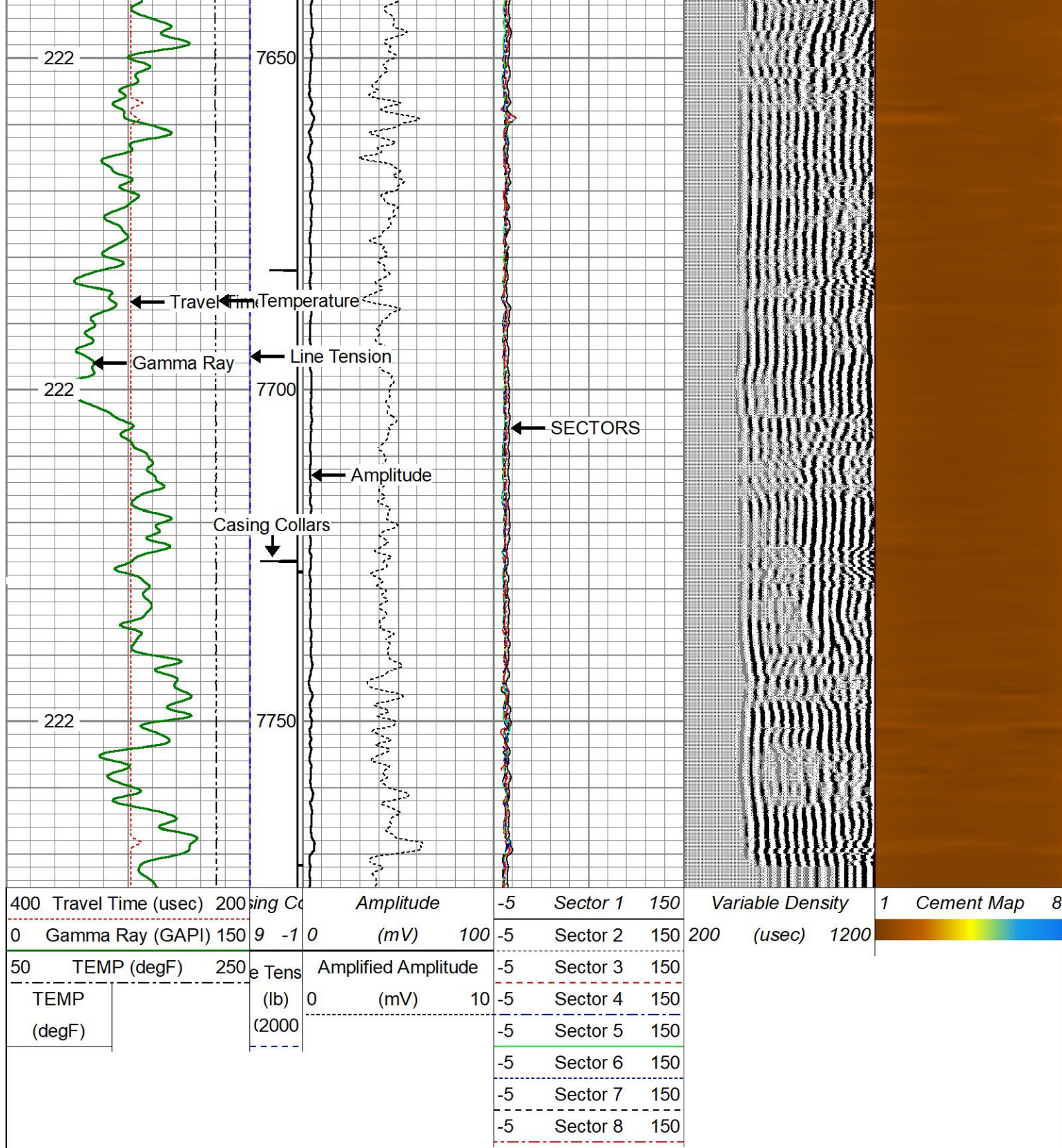










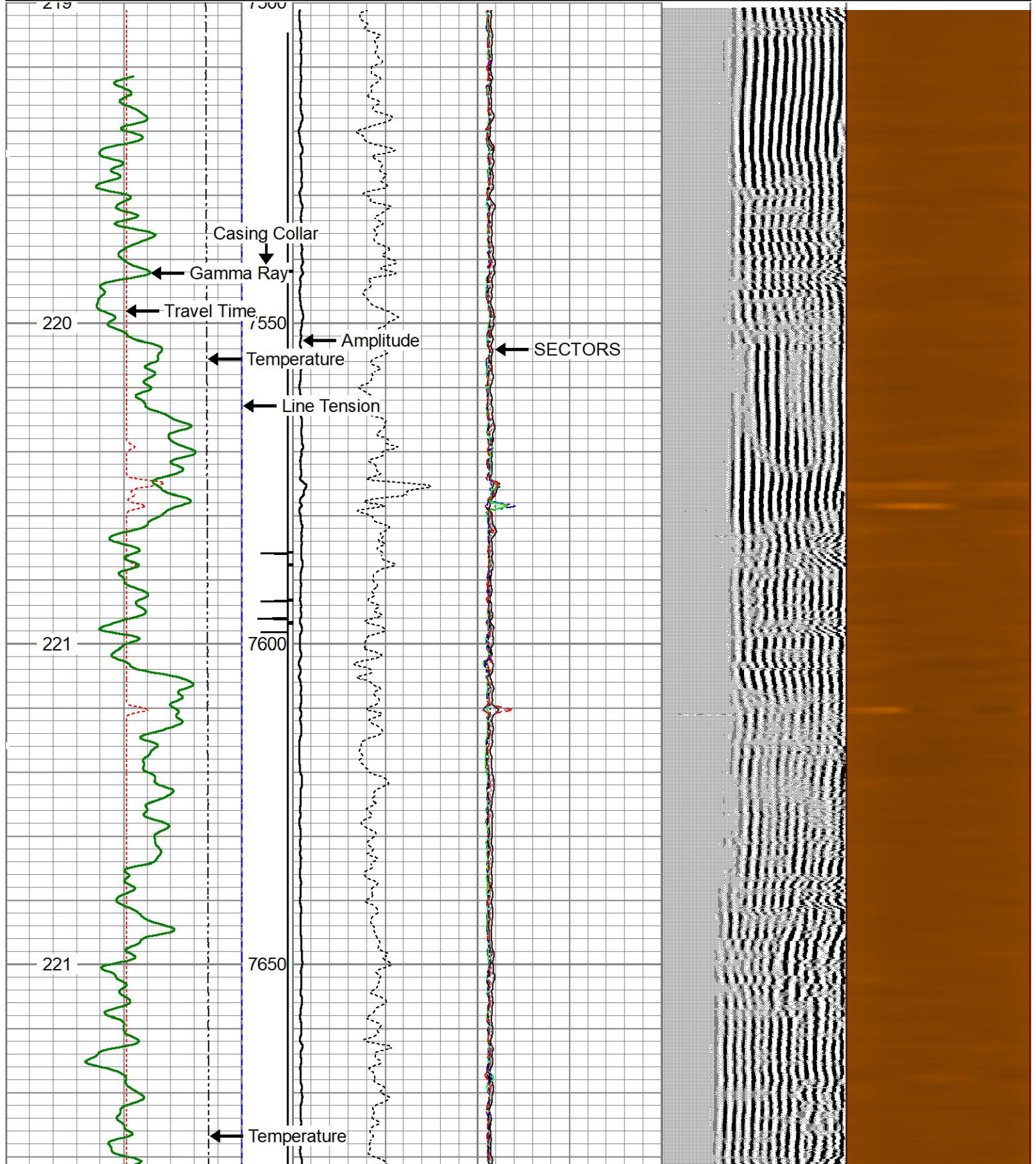


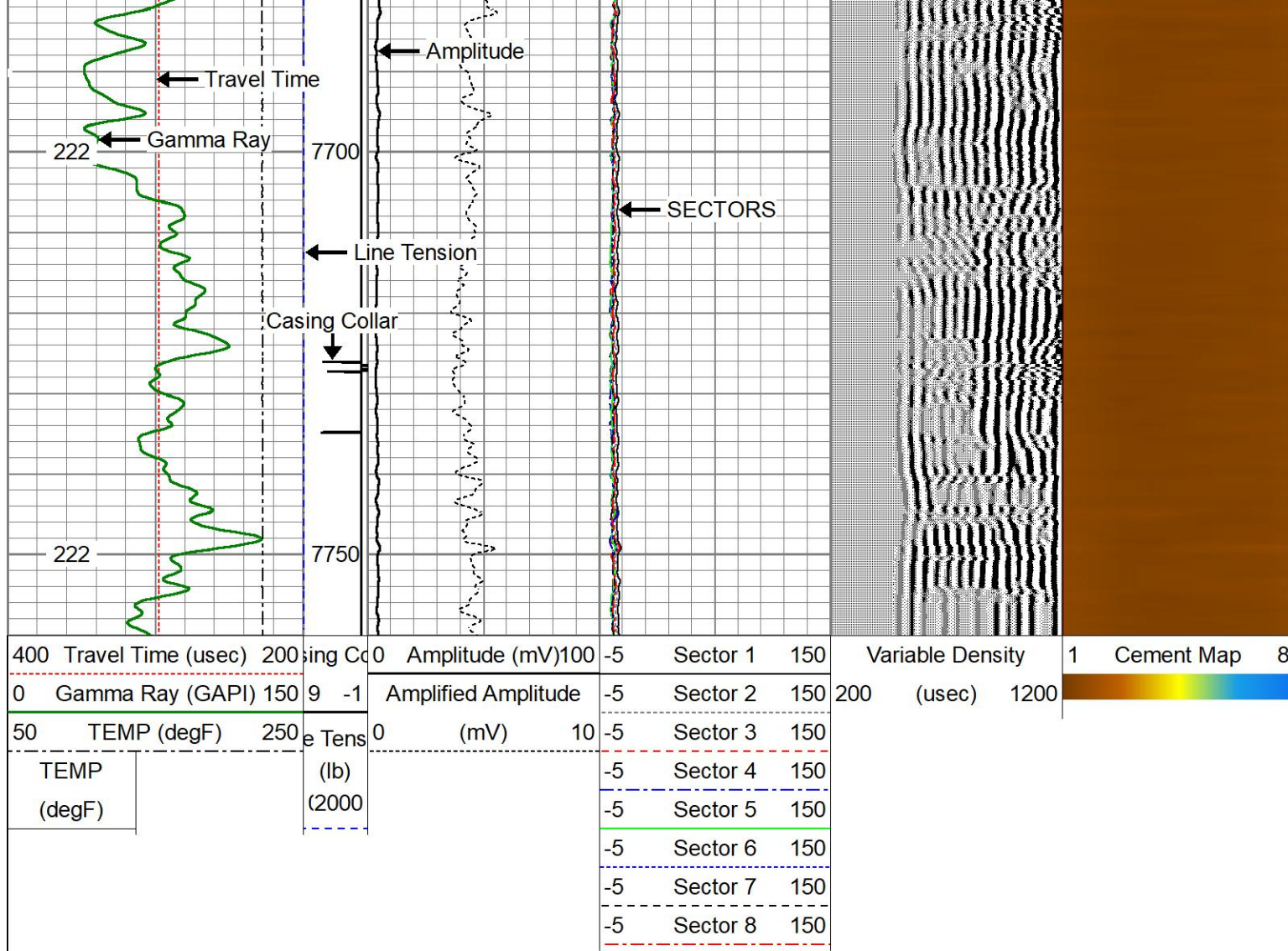
REPEAT PASS

LOGGED WITH 0 PSI SURFACE INDUCED PRESSURE

Database File raindance_fc_23-289hnx_rcbl10-31-21.db
 Dataset Pathname RCBL1/pass7
 Presentation Format rcbl_hh
 Dataset Creation Sun Oct 31 16:03:53 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				





Calibration Report						
Database File	raindance_fc_23-289hnx_rcbl10-31-21.db					
Dataset Pathname	RCBL1/pass9					
Dataset Creation	Sun Oct 31 16:10:05 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

Serial Number: FW1409-41
 Tool Model: Probe 2.75 Radii W/Temp
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 2029.775 ft

Master Calibration, performed Sun Oct 31 15:33:11 2021:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.487	1.000	71.921	145.947	0.886
CAL	0.001	0.612				
5'	0.001	0.424	1.000	71.921	167.871	0.826
SUM						
S1	-0.009	0.464	0.000	100.000	211.554	1.805
S2	-0.002	0.458	0.000	100.000	217.560	0.454
S3	0.006	0.466	0.000	100.000	217.537	-1.370
S4	0.006	0.489	0.000	100.000	207.026	-1.264
S5	0.006	0.502	0.000	100.000	201.590	-1.228
S6	0.006	0.502	0.000	100.000	201.243	-1.118
S7	0.006	0.492	0.000	100.000	206.026	-1.293
S8	0.006	0.474	0.000	100.000	213.712	-1.200

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.612	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				
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				
HEADVOLT	6.40				
CCL	5.44				
GR	1.42				
Dataset: raindance_fc_23-289hnx_rcbl10-31-21.db: field/well/RCBL1/pass9 Total length: 16.60 ft Total weight: 152.00 lb O.D.: 2.75 in					

