



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

Company GREAT WESTERN OIL & GAS
Well STROH 22-22
Field WATTENBERG
County WELD State COLO

Location: API #: 05-123-27111
LAT 40.29977
LONG -104.87924
SEC 22 TWP 4N RGE 67W
Permanent Datum GL Elevation 4856
Log Measured From KB
Drilling Measured From KB
Other Services
Elevation
K.B. 4868
D.F. 4867
G.L. 4856

Company GREAT WESTERN OIL & GAS
Well STROH 22-22
Field WATTENBERG
County WELD
State COLO

Date 05-SEP-2019

Run Number ONE
Depth Driller 7430
Depth Logger 6800
Bottom Logged Interval 6800
Top Log Interval SURFACE
Open Hole Size 4.5"
Type Fluid WATER
Density / Viscosity 8.34PPG
Max. Recorded Temp. SEE LOG
Estimated Cement Top SEE LOG
Time Well Ready ROA
Time Logger on Bottom PM
Equipment Number 72
Location STERLING
Recorded By A. WILLIAMS
Witnessed By M. TIBBS

Run Number Bit From To Size Weight From To

Casing Record Size Wgt/Ft Top Bottom
Surface String 8-5/8 24 # SURFACE 620
Prot. String
Production String 7.875 11.6 SURFACE 7430
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

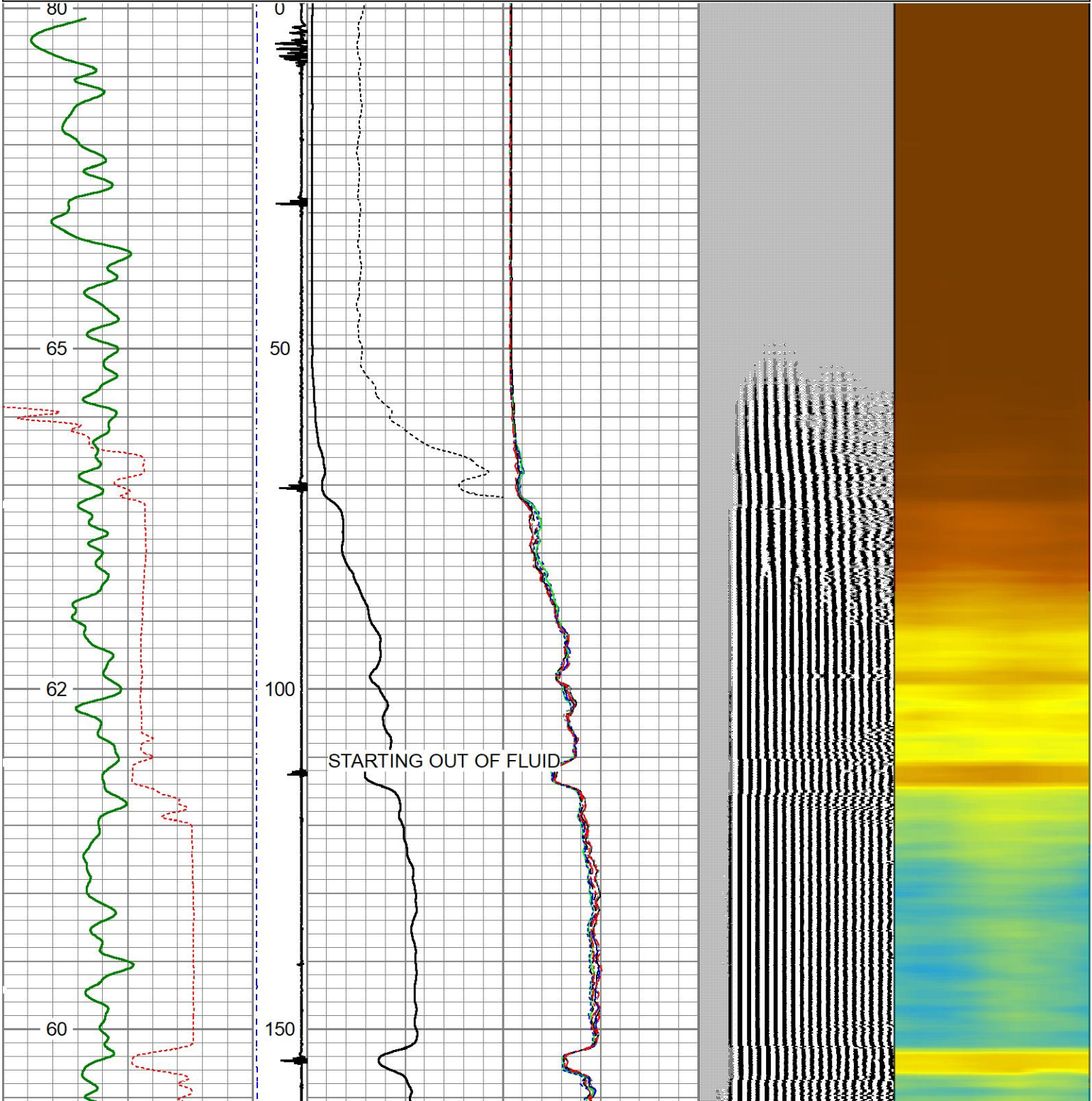
COORELATED TO SHORT JOINT @ 6658-6679
LOGGED UNDER 0 PSI

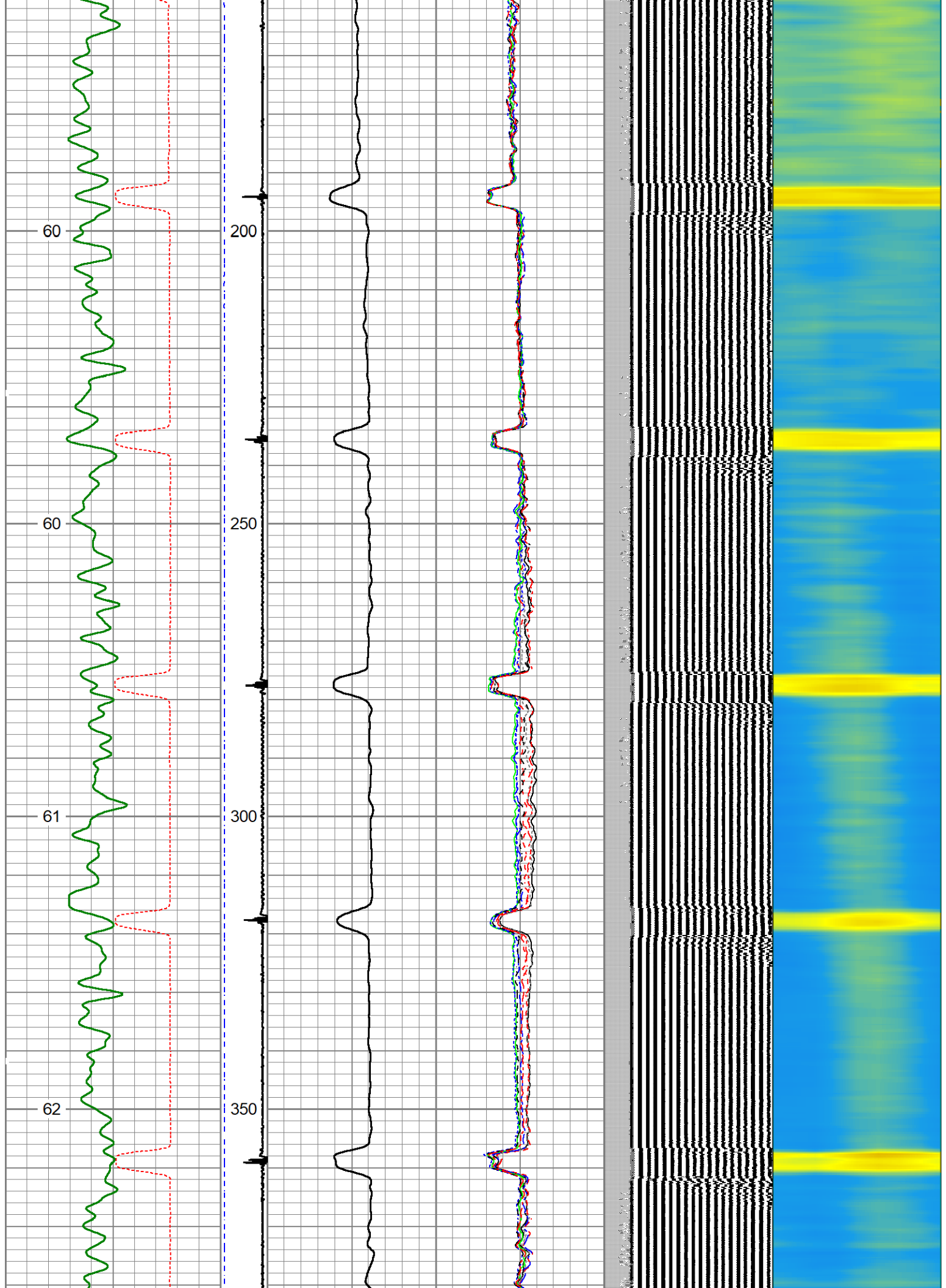


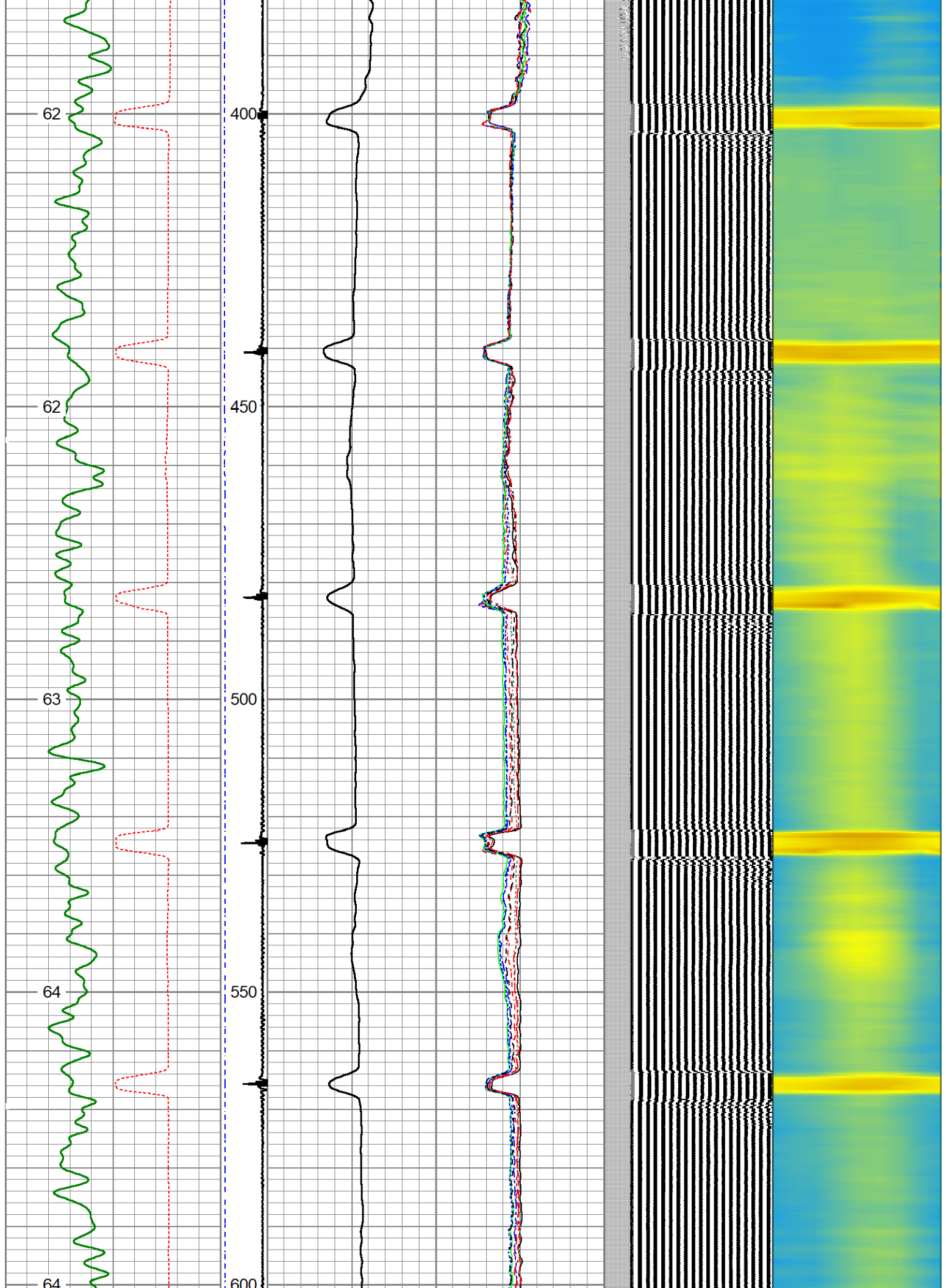
MAIN PASS

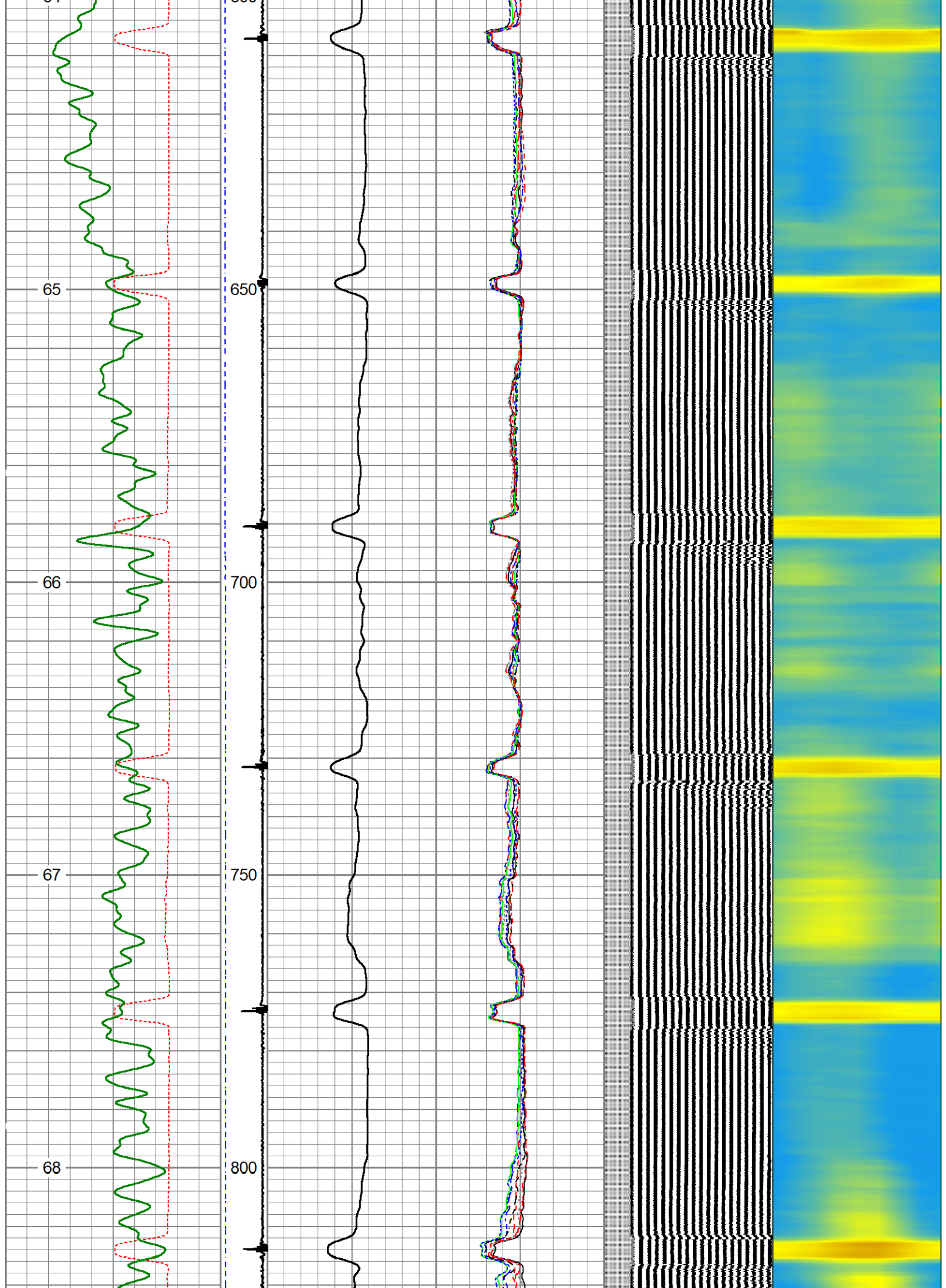
Database File	stroh 22-22 cbl.db
Dataset Pathname	pass4
Presentation Format	scbl03
Dataset Creation	Thu Sep 05 14:09:03 2019
Charted by	Depth in Feet scaled 1:240

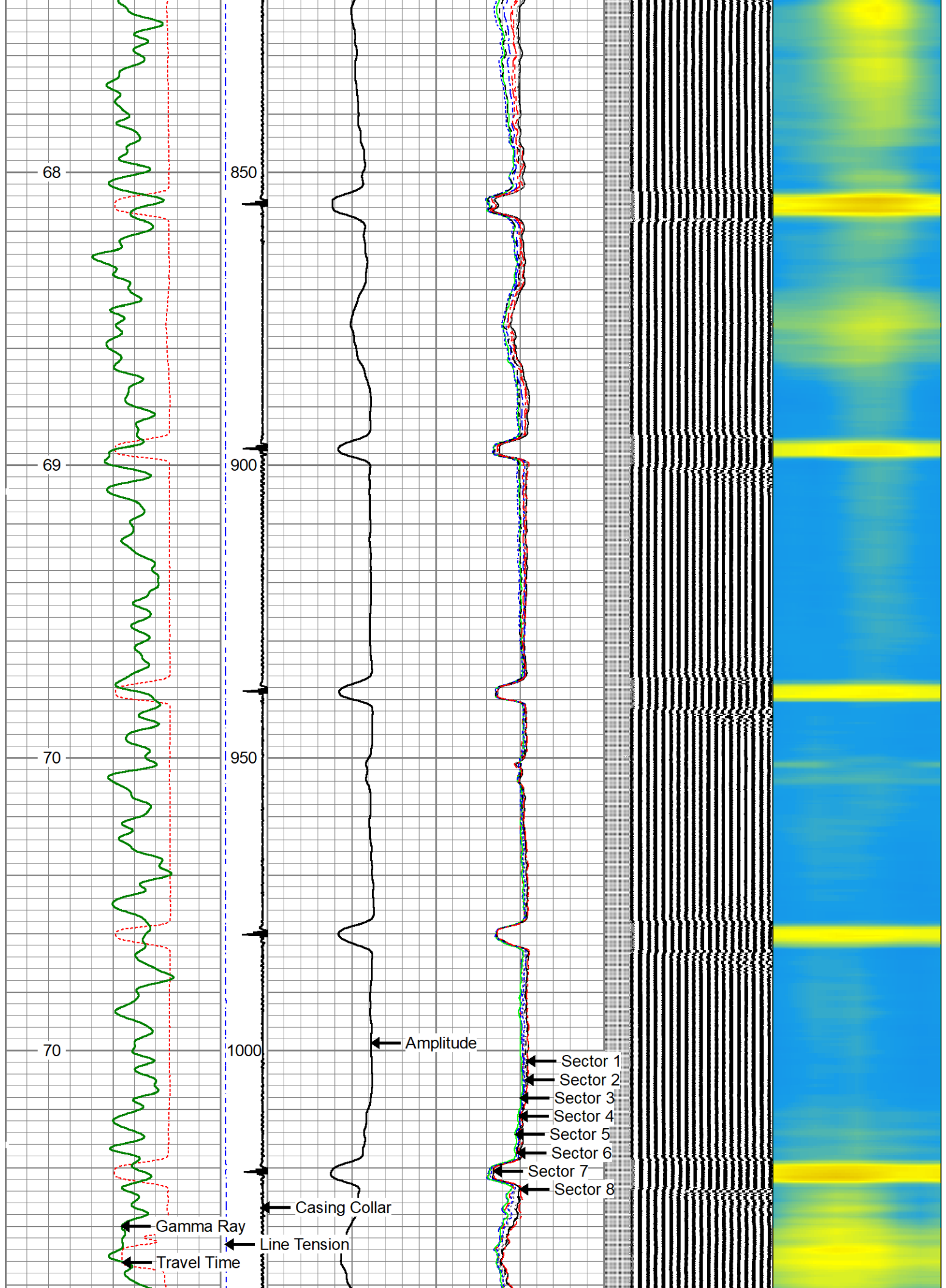
400	Travel Time (usec)	200	ing Co	0	Amplitude (mV)	100	-5	Sector 1	150	Variable Density	1	Cement Map	8
0	Gamma Ray (GAPI)	150	9	-1	Amplified Amplitude		-5	Sector 2	150	(usec)	1200		
TEMP			e Tens	0	(mV)	10	-5	Sector 3	150				
(degF)			(lb				-5	Sector 4	150				
			(2000				-5	Sector 5	150				
						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

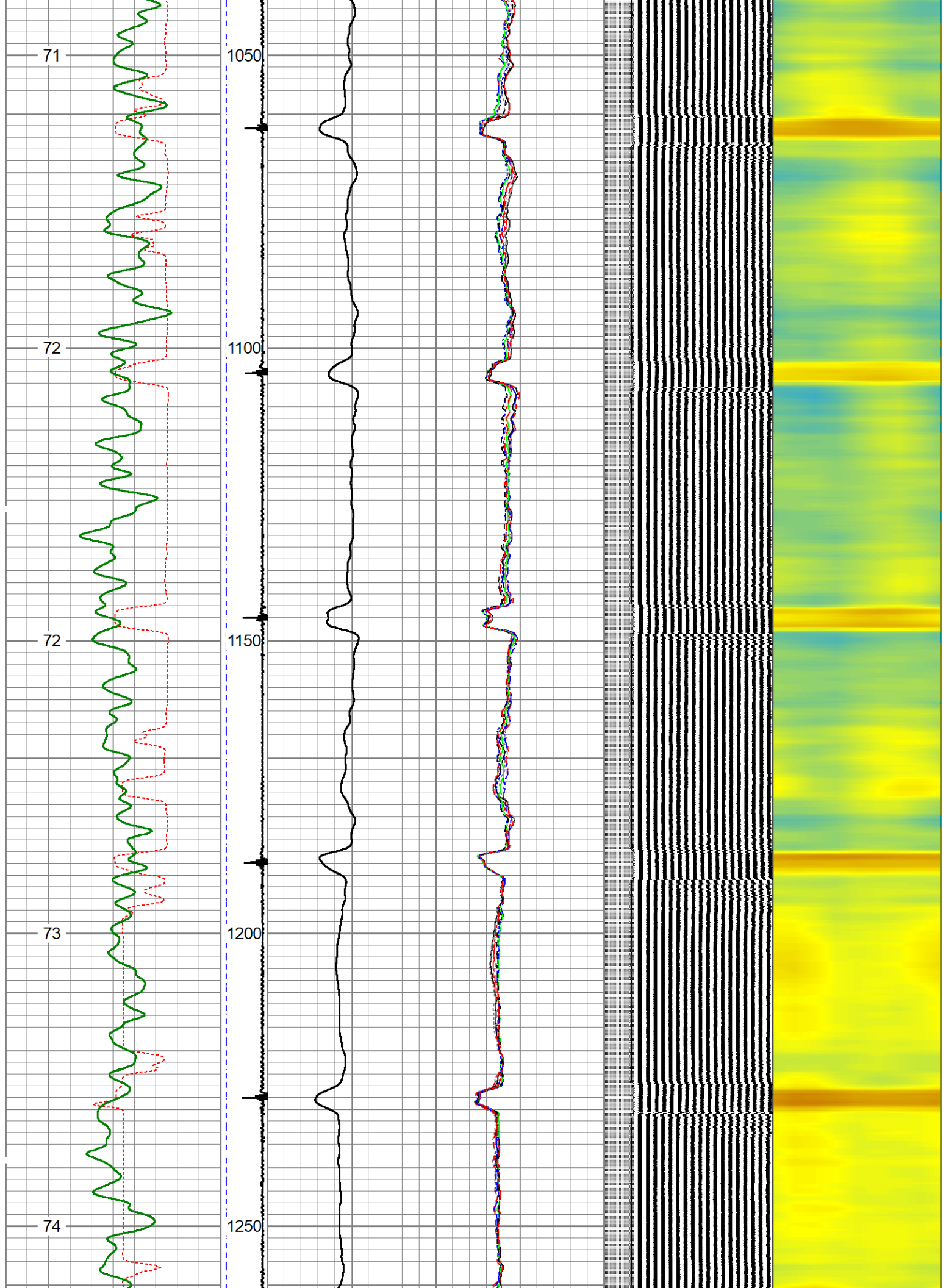


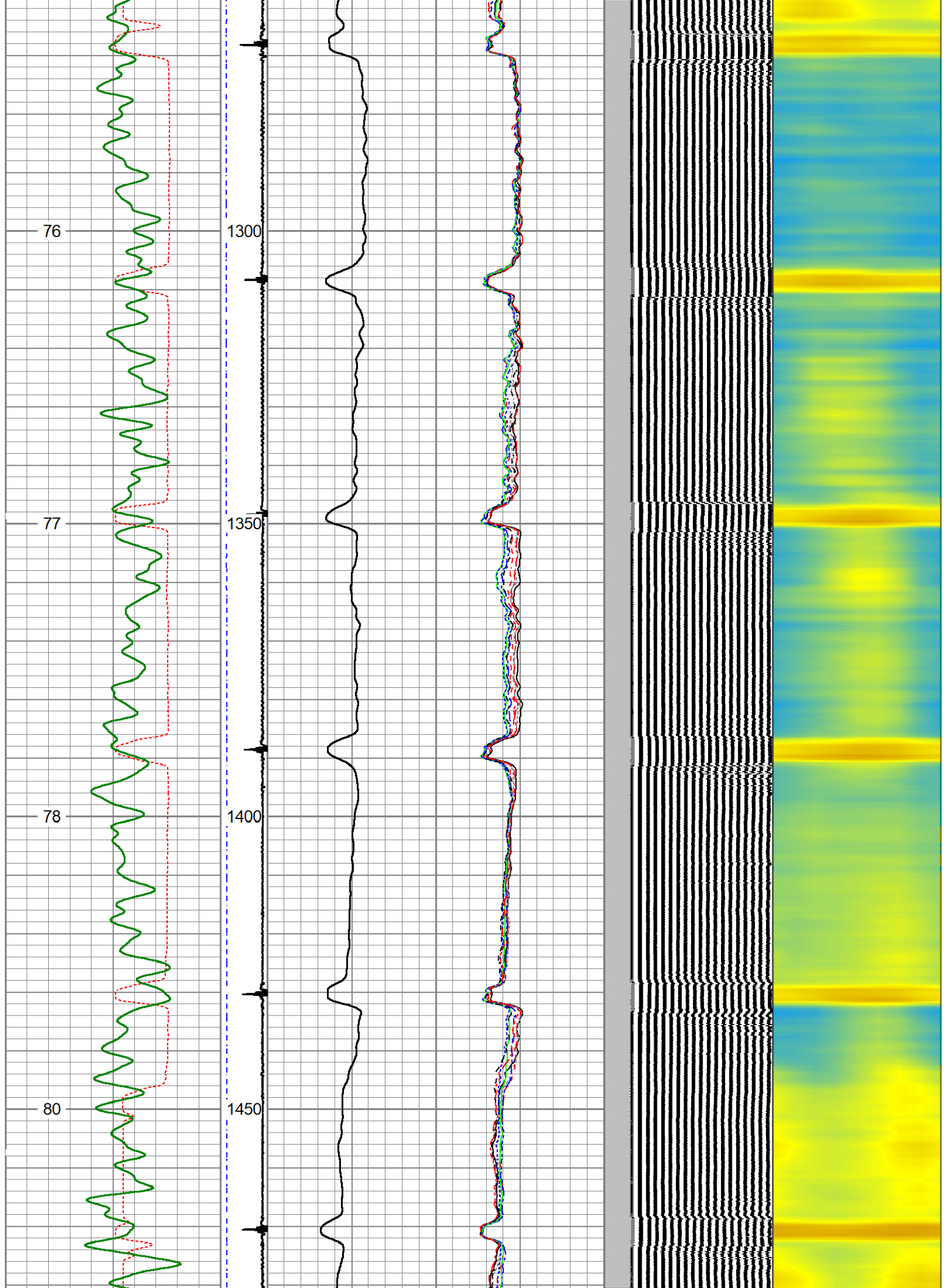


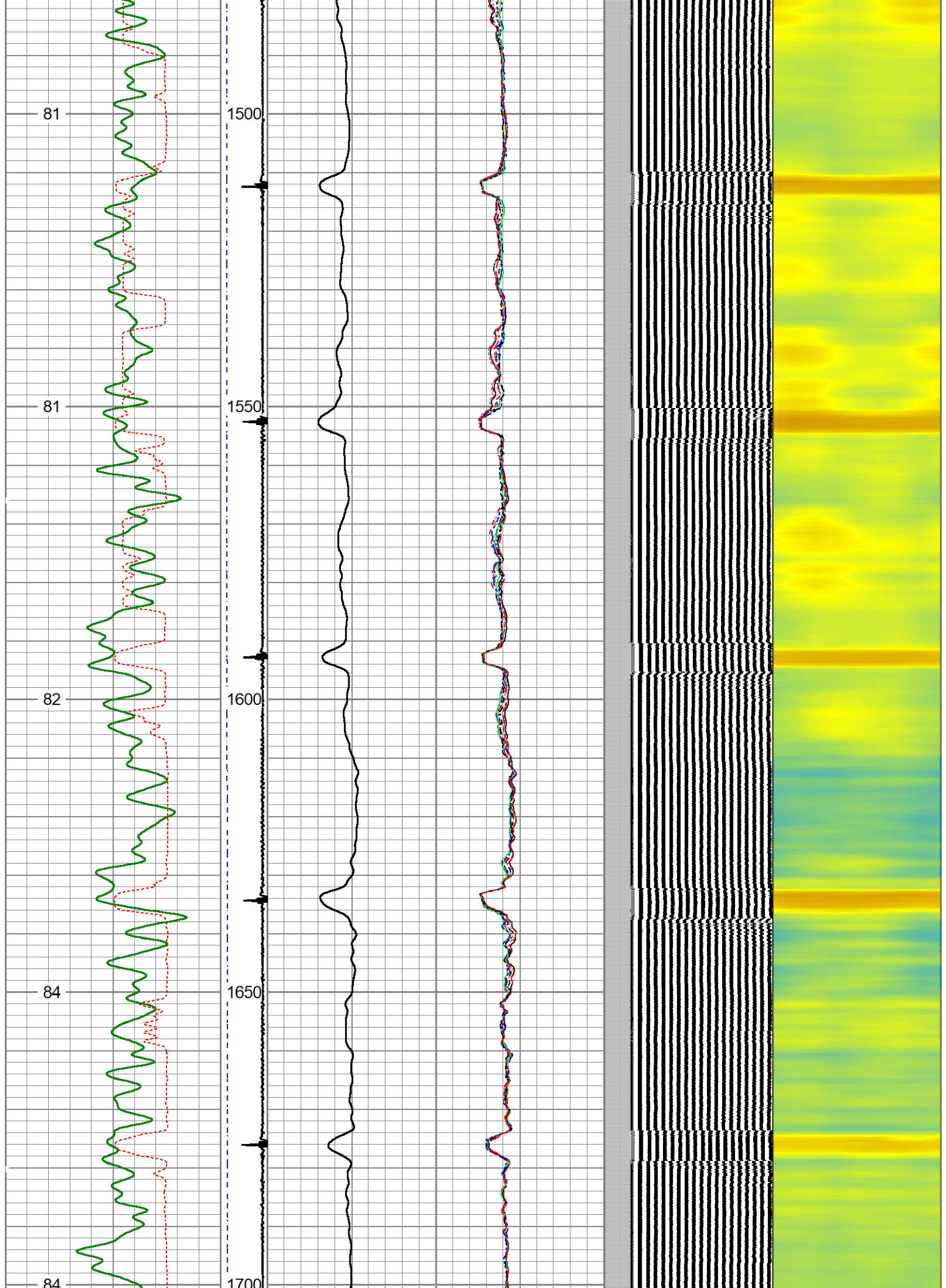


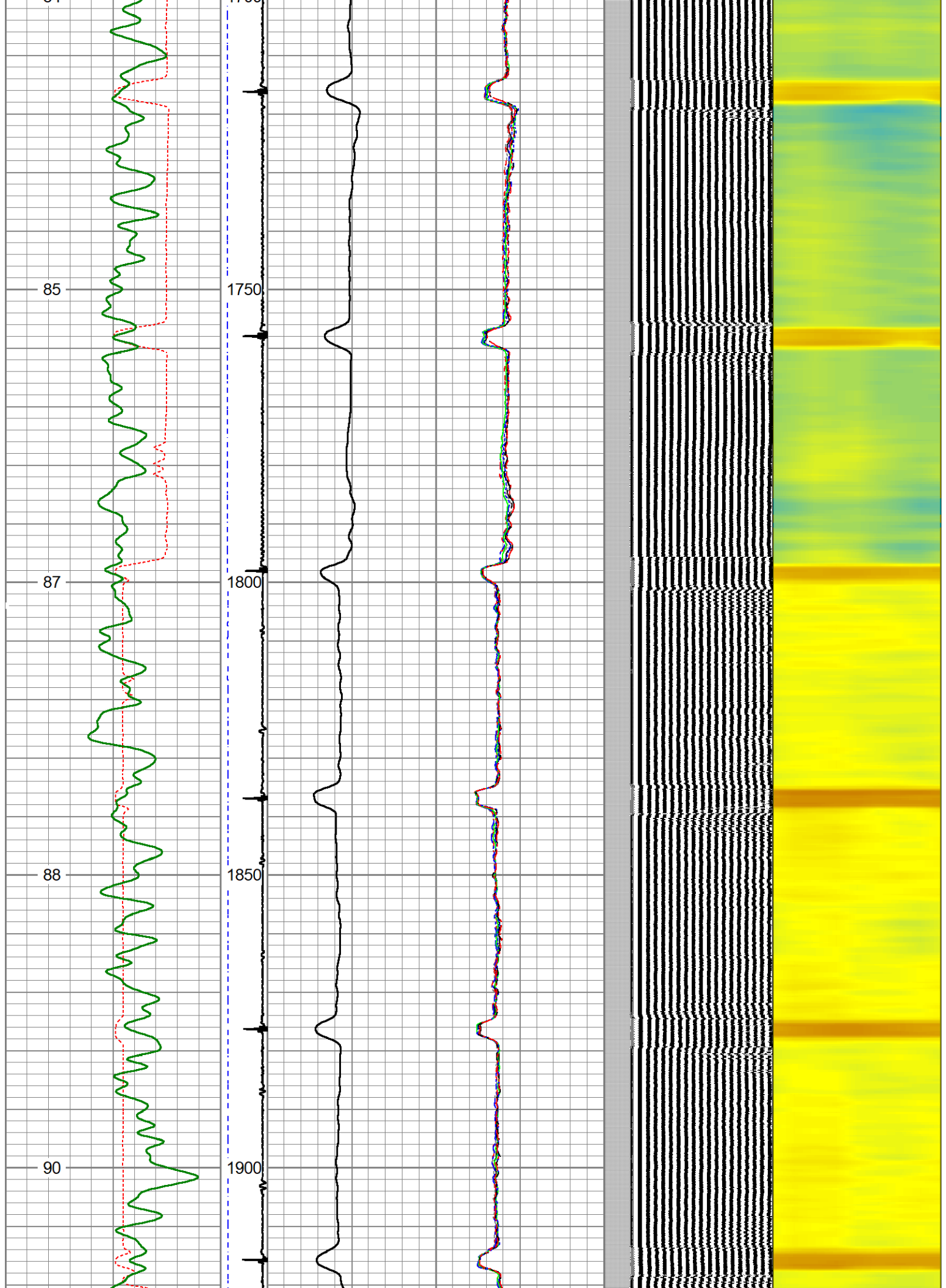


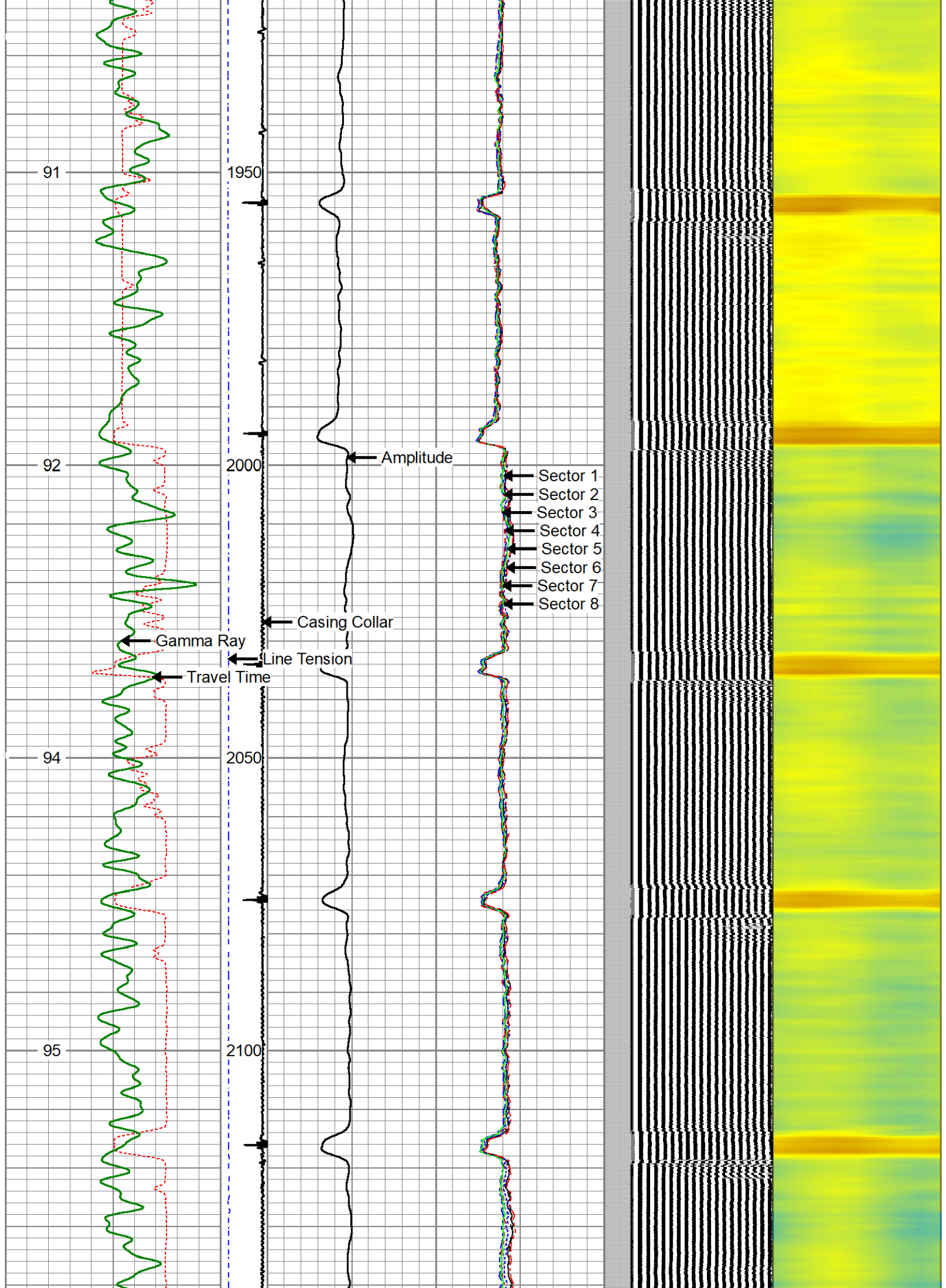


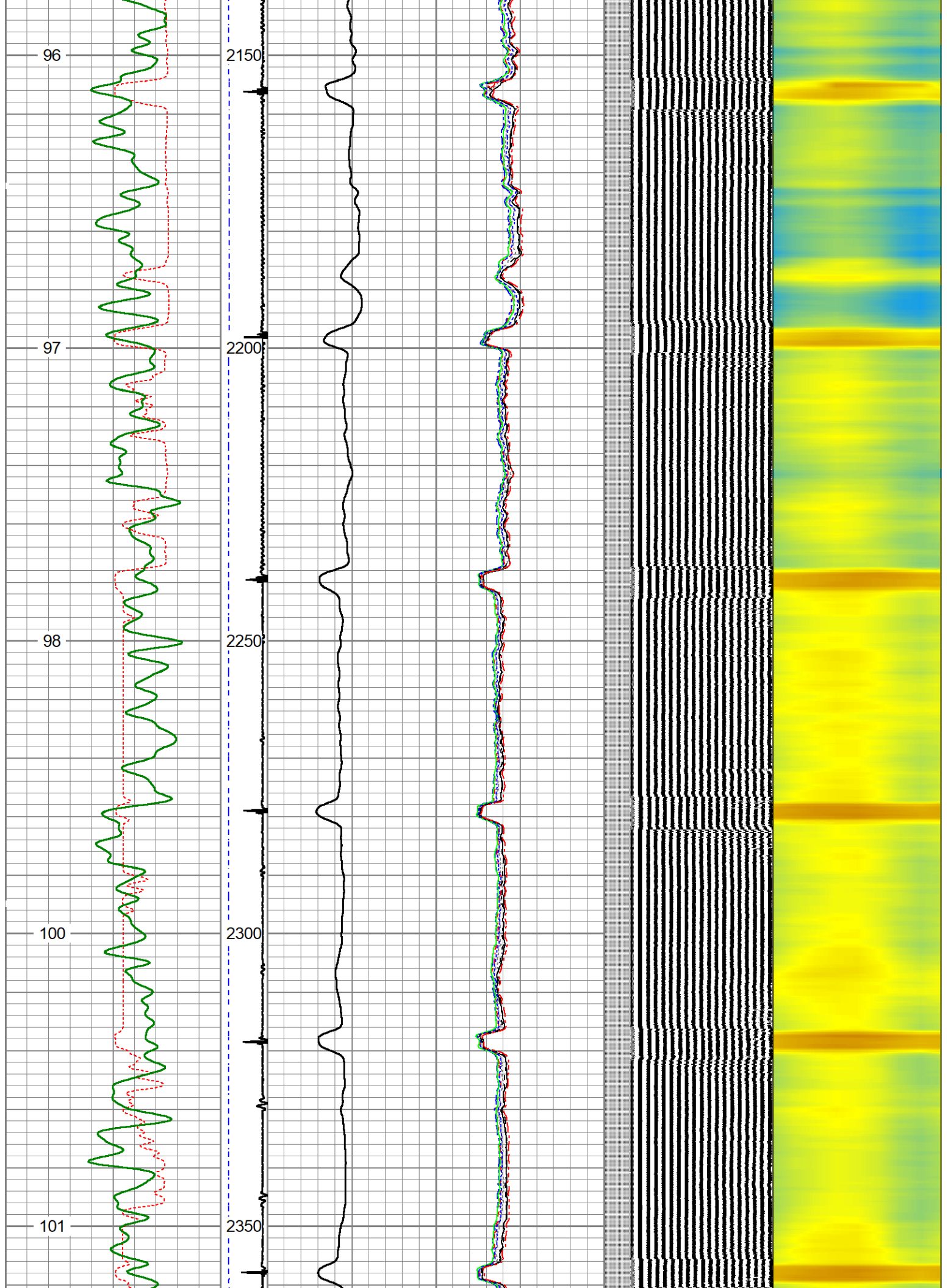


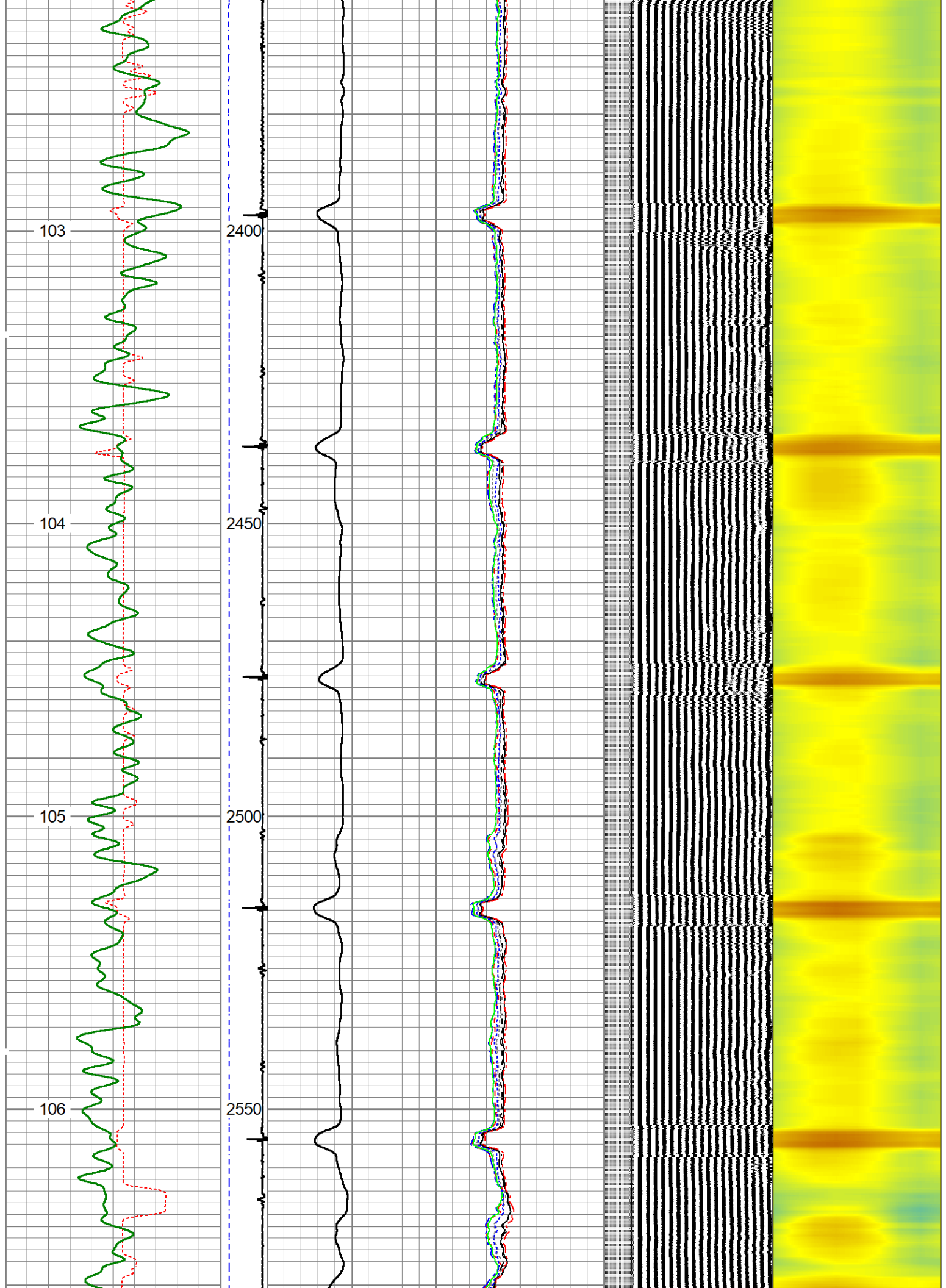


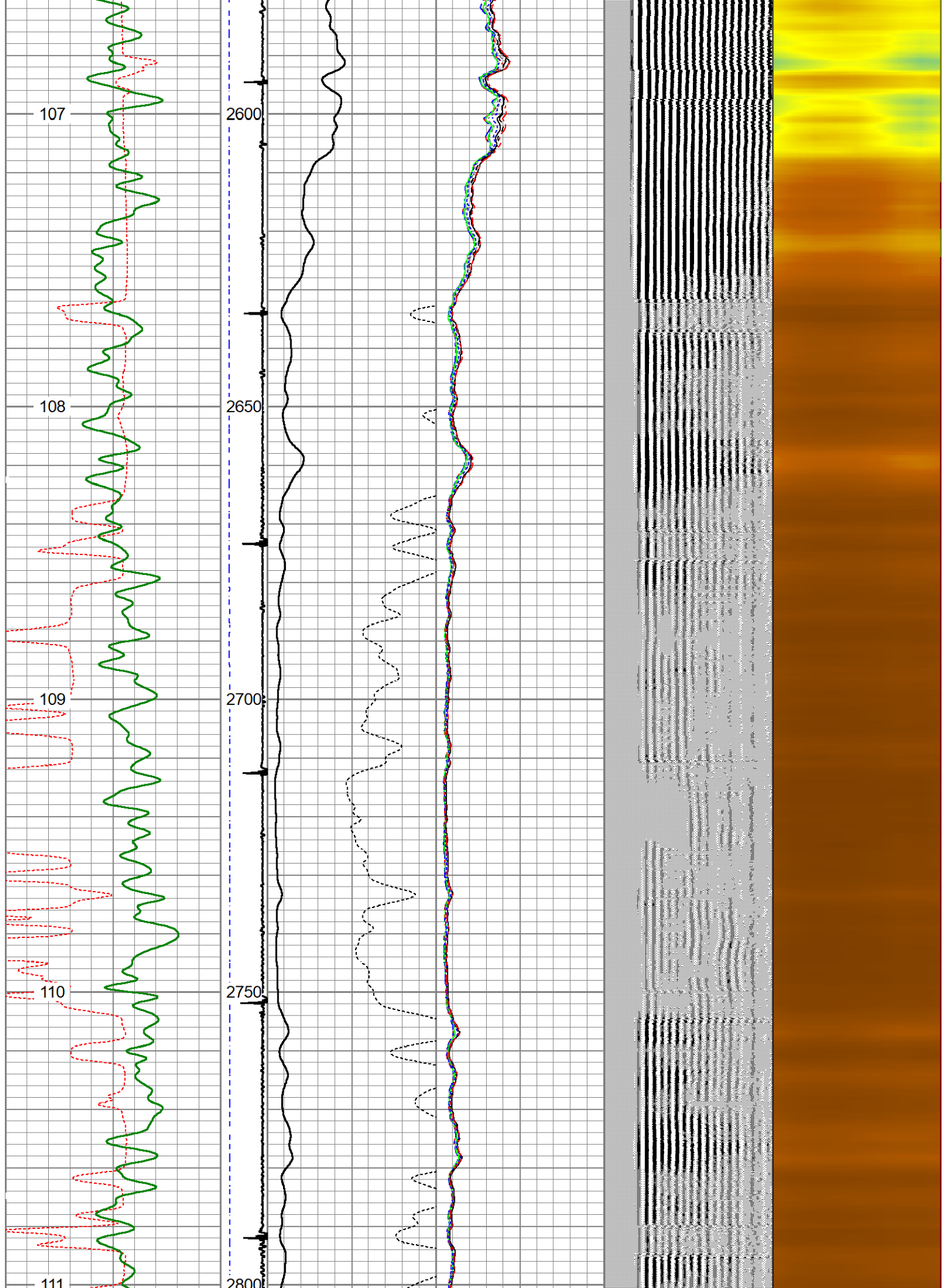


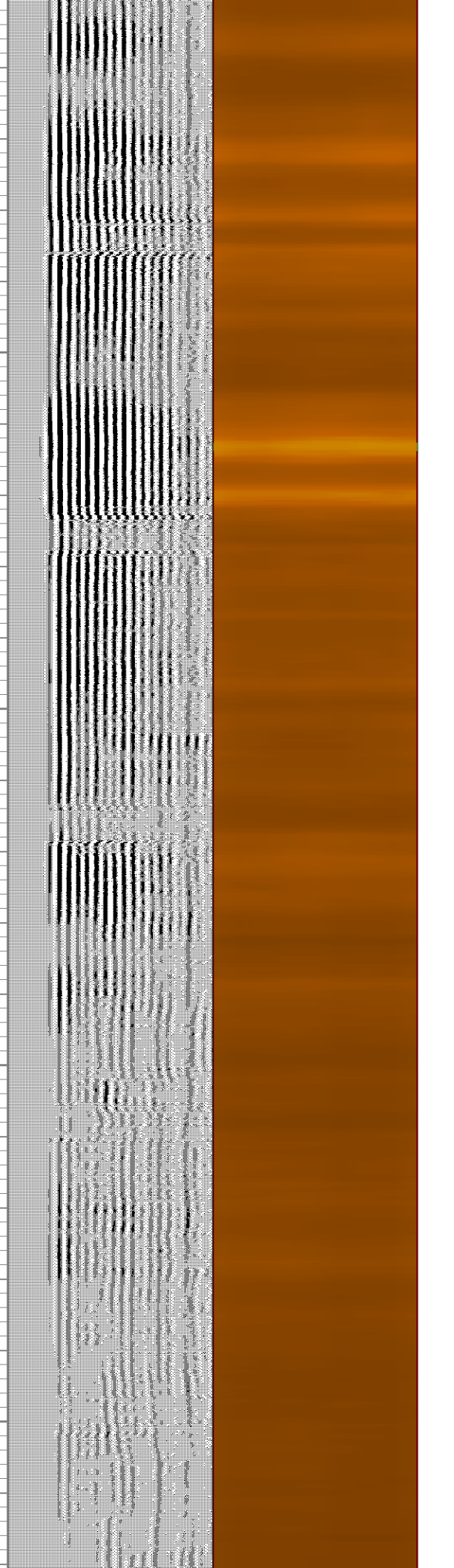
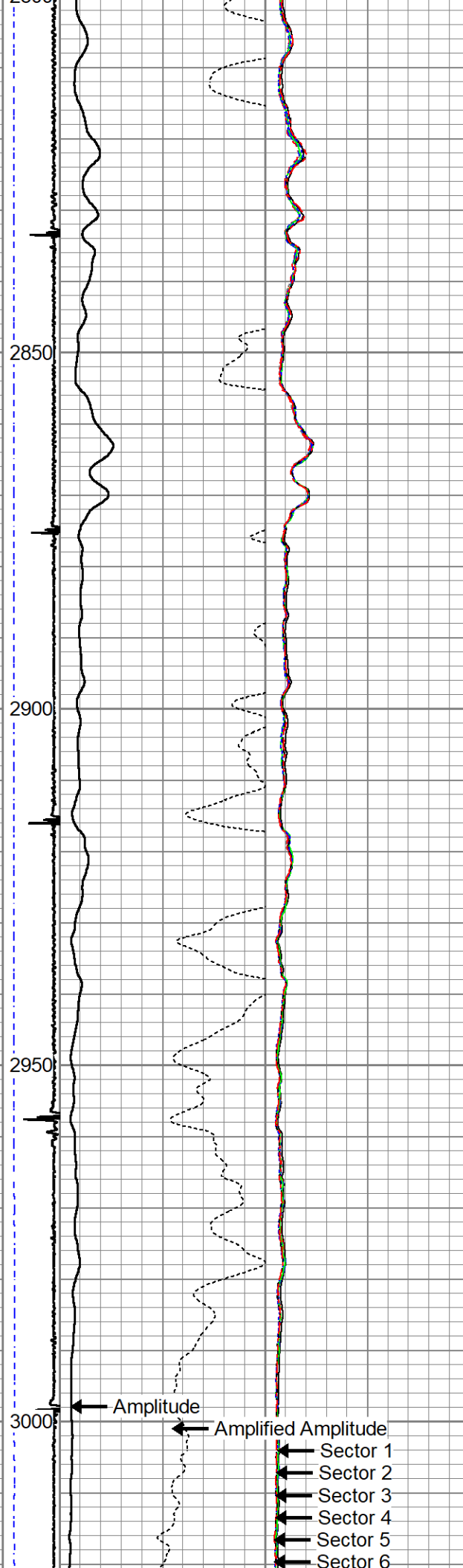
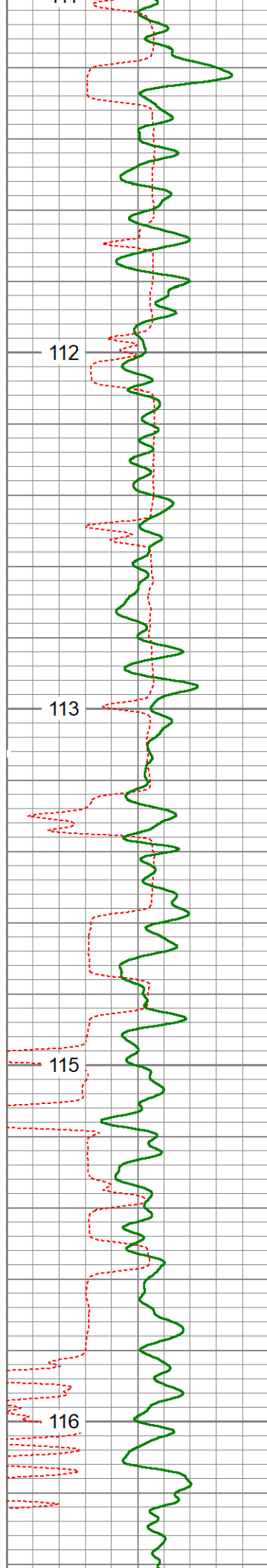


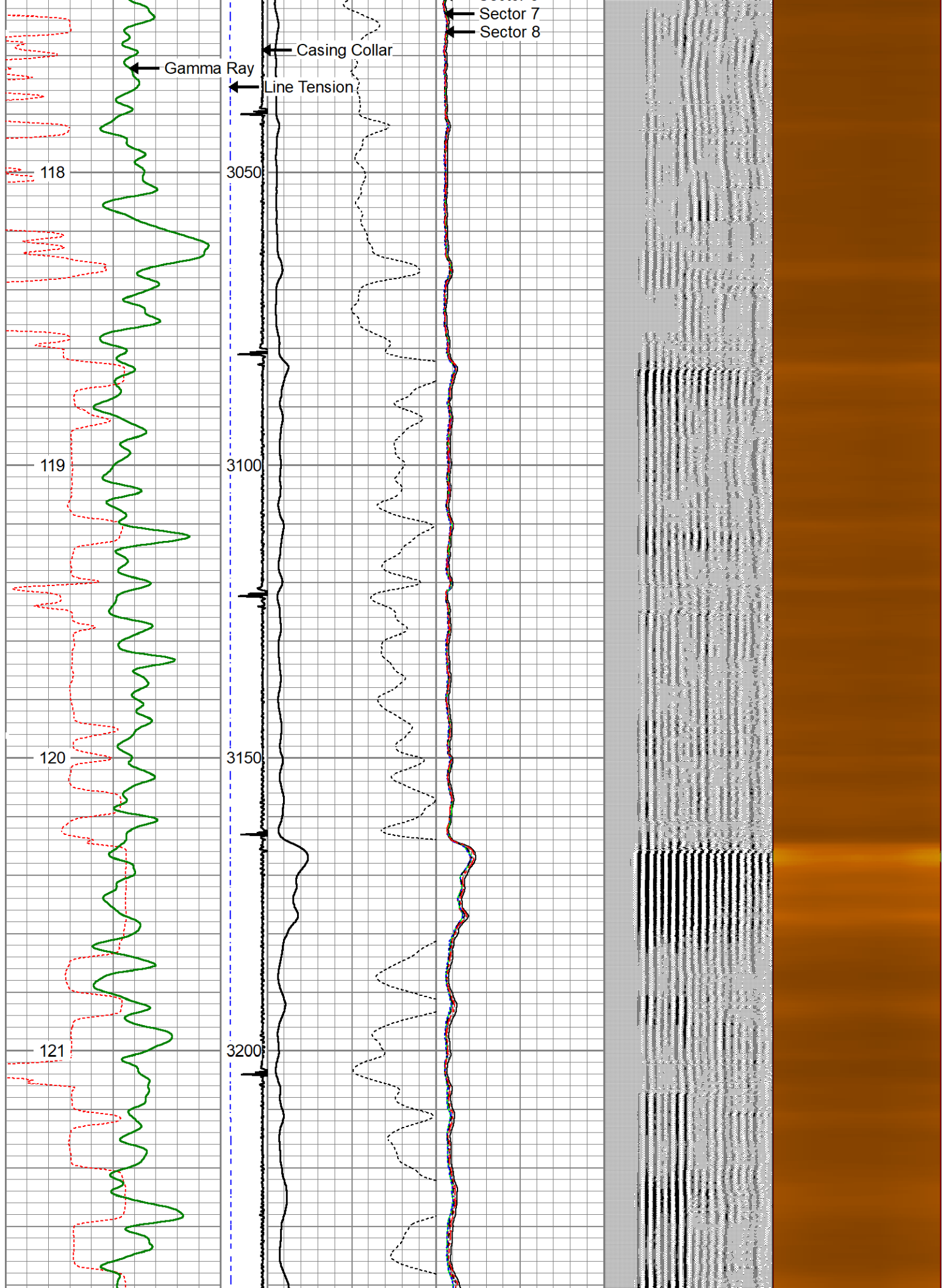


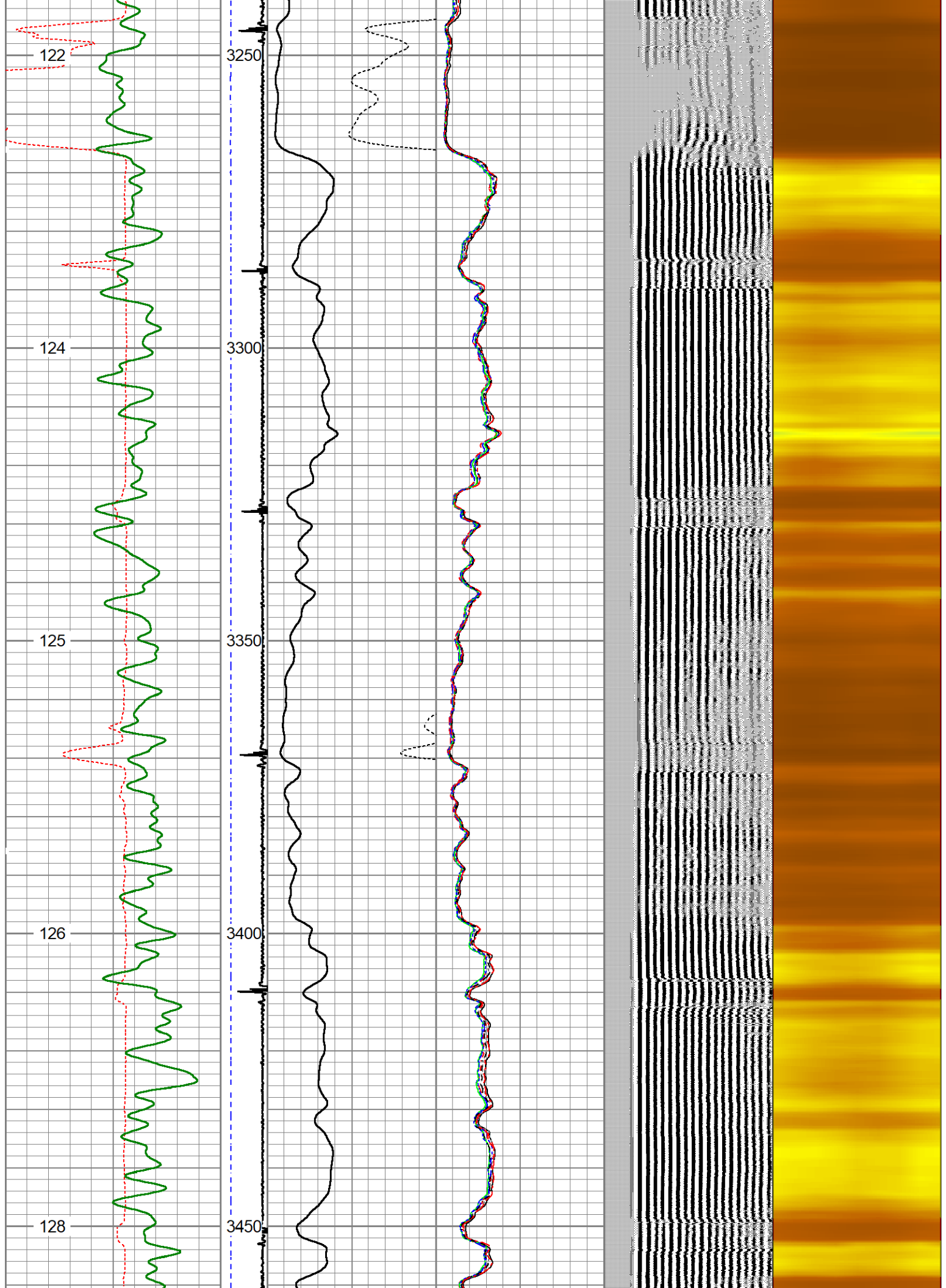


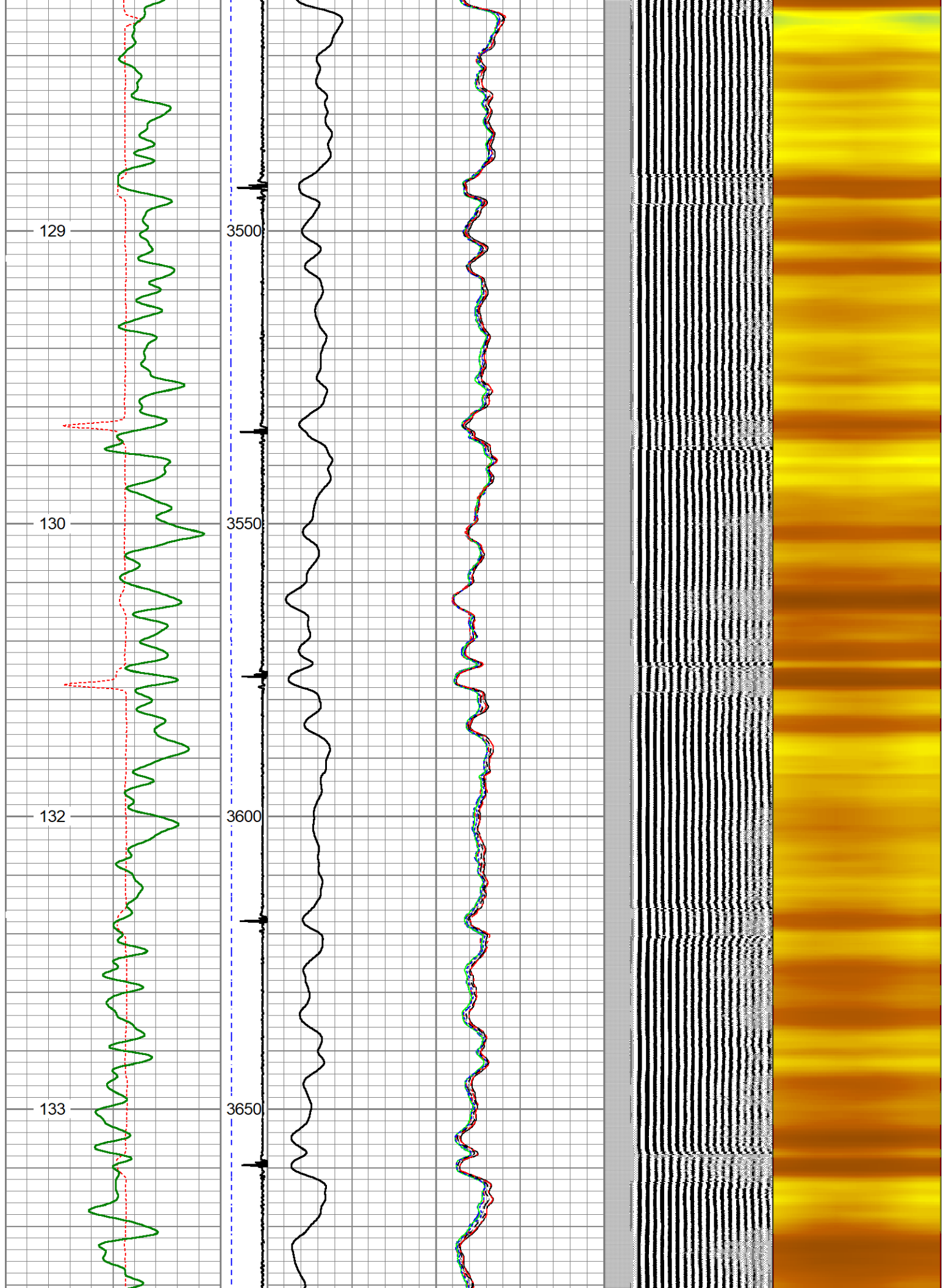


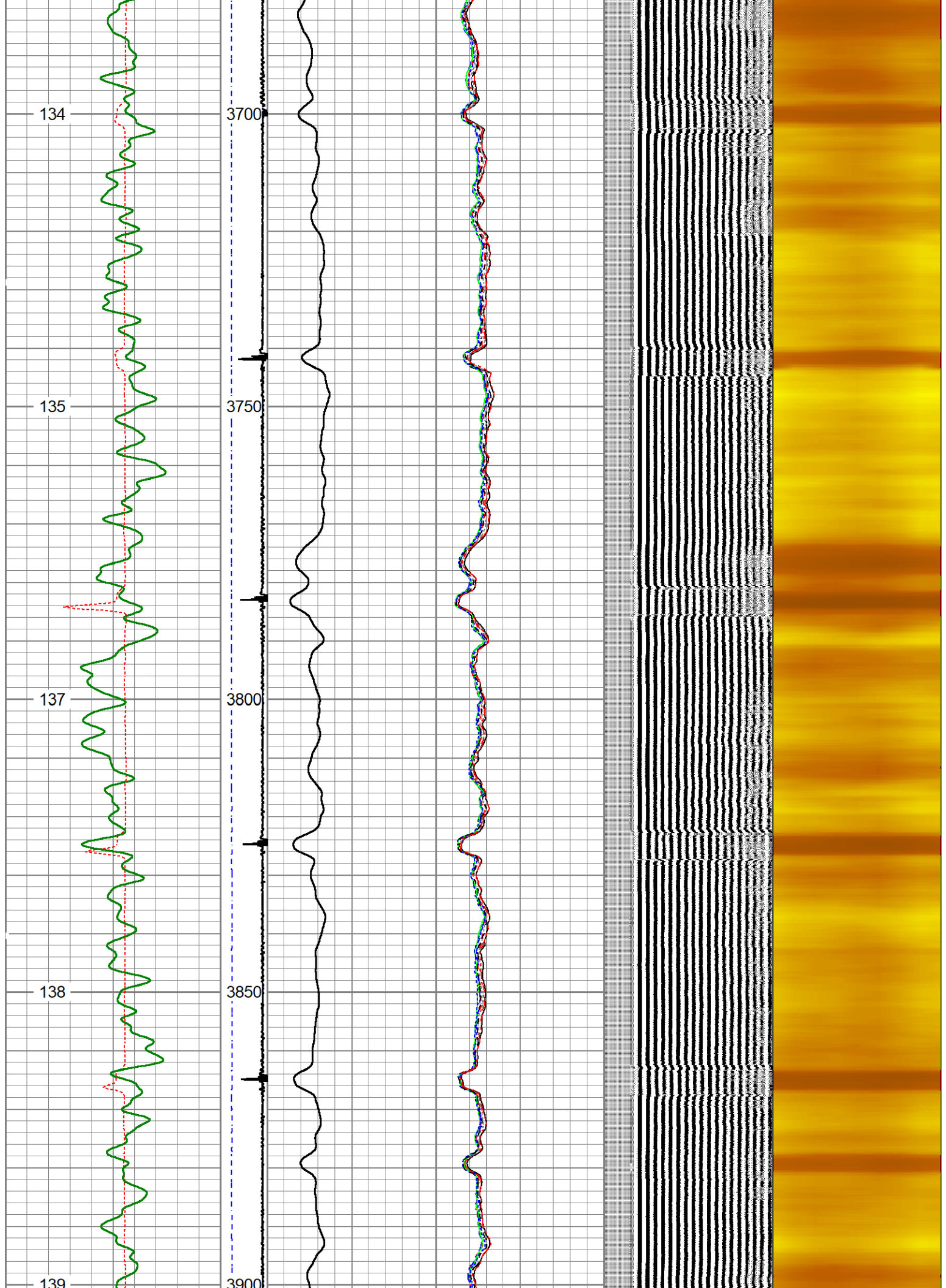


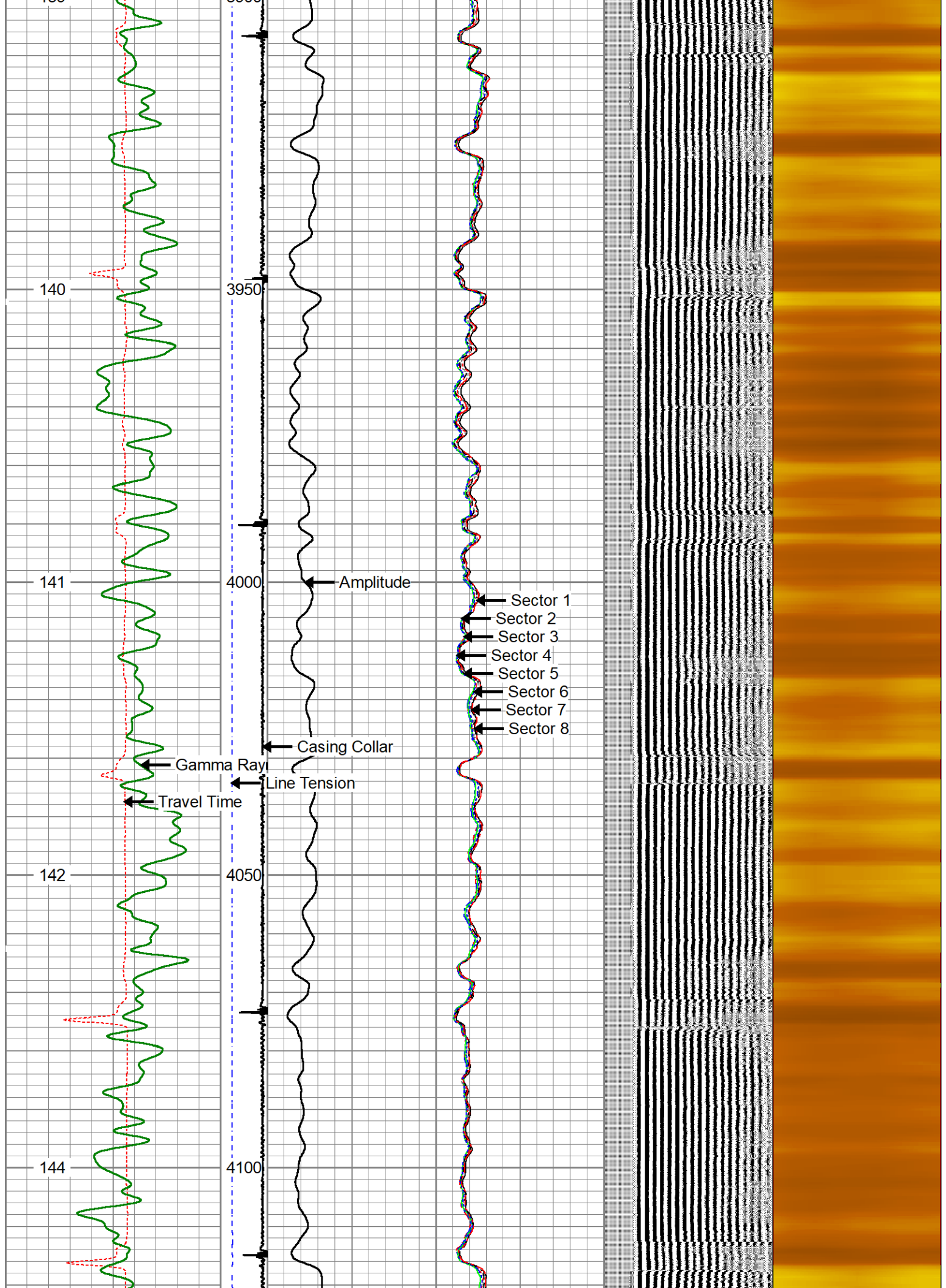


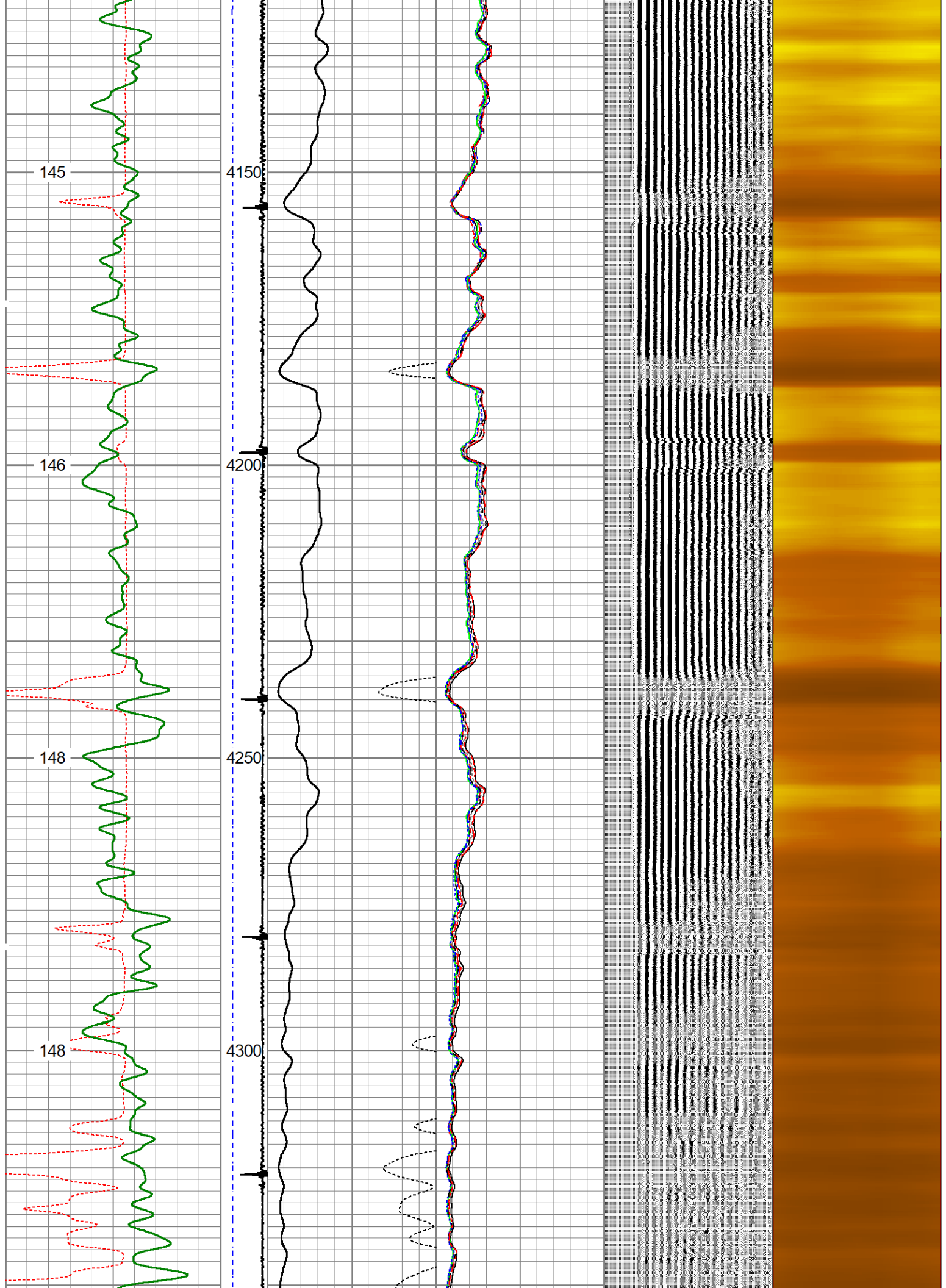


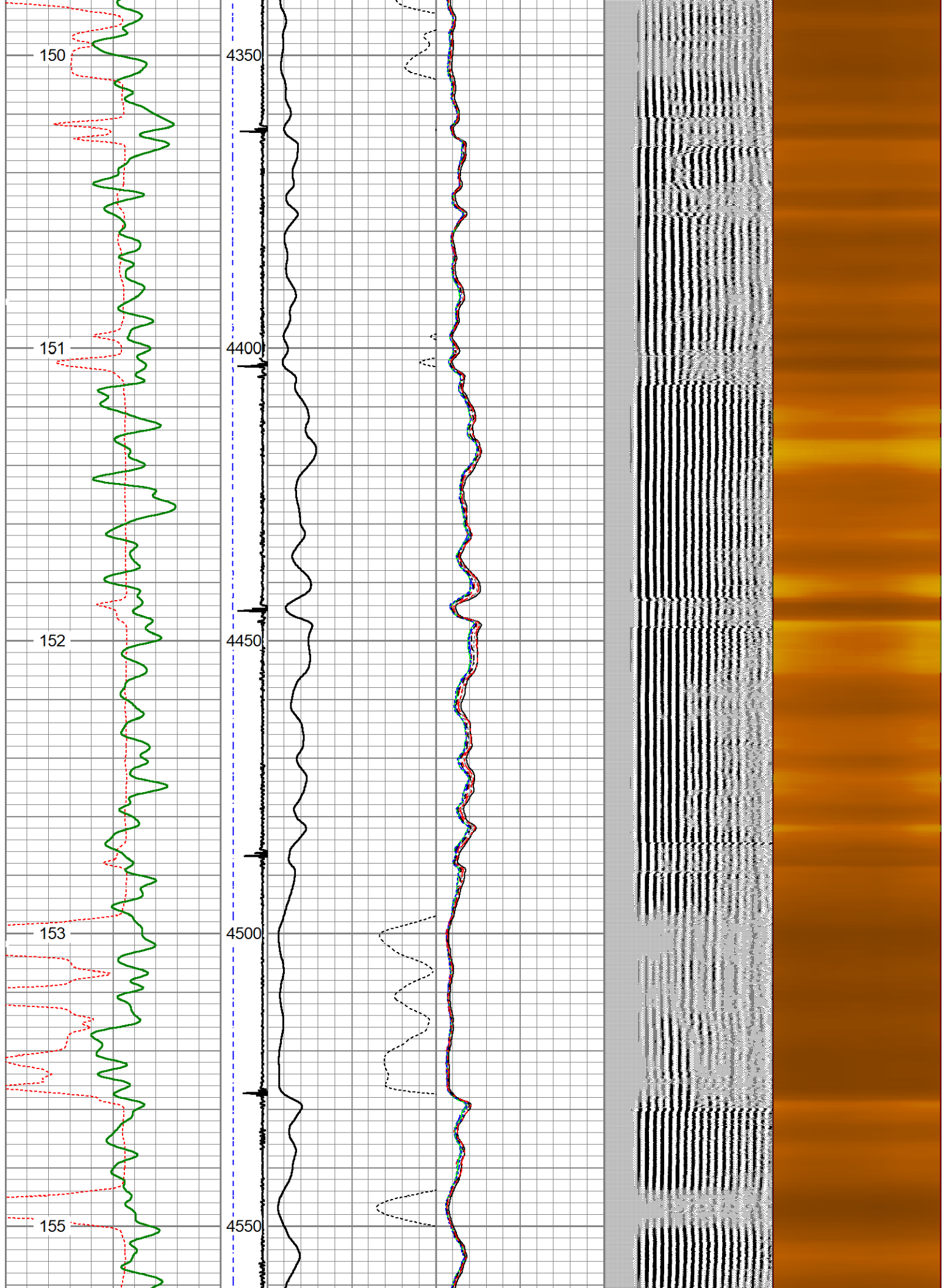


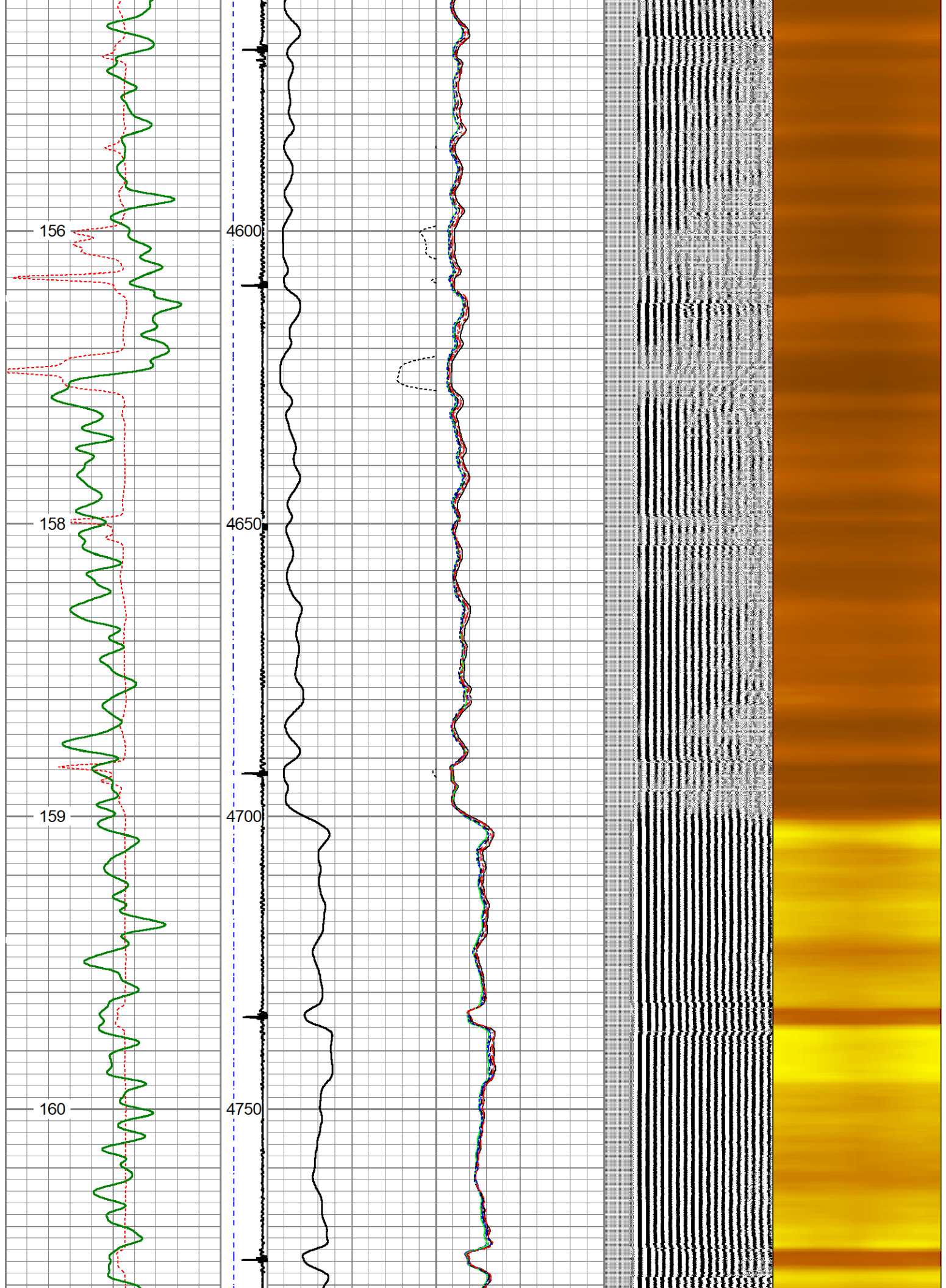


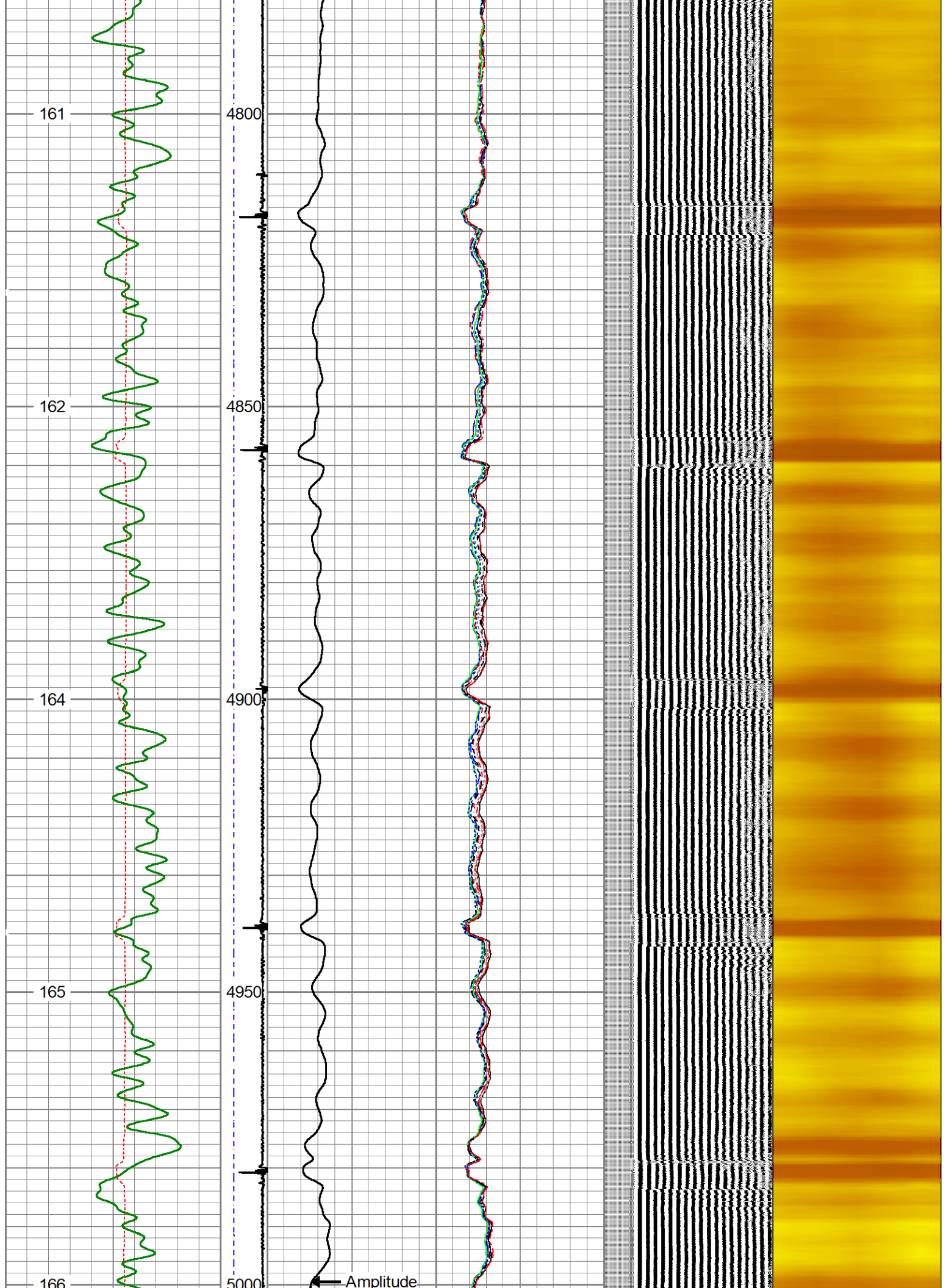


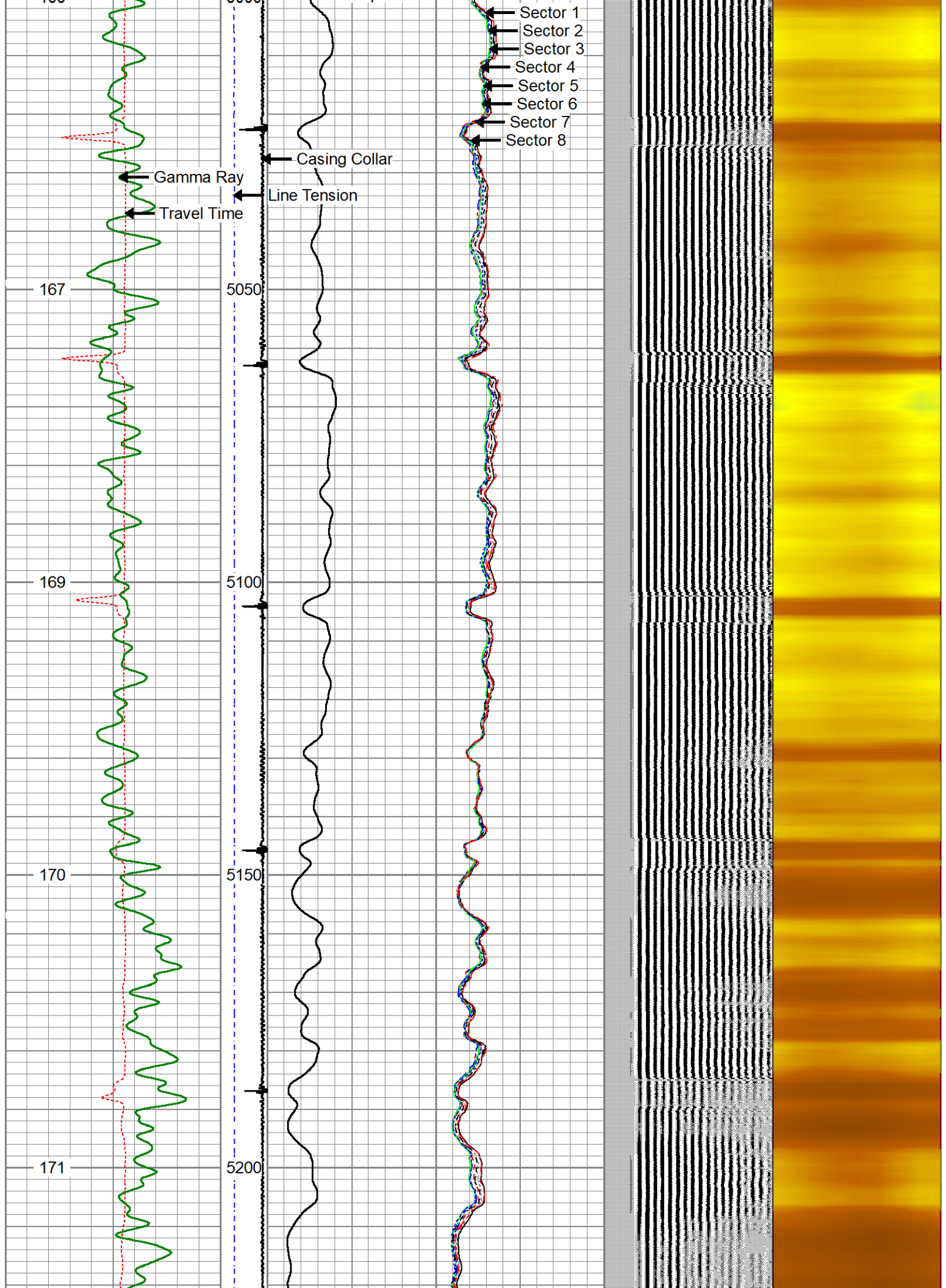


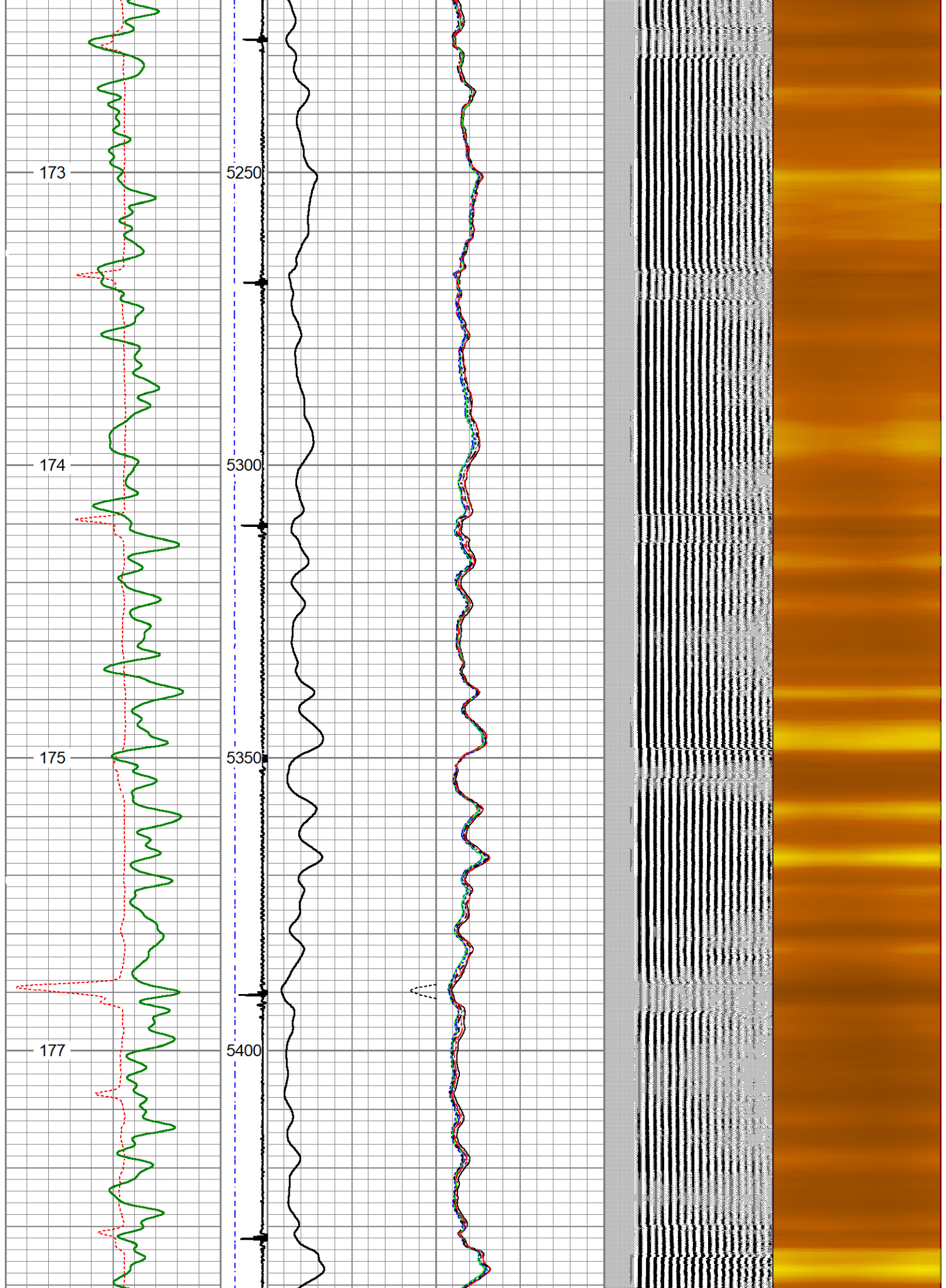


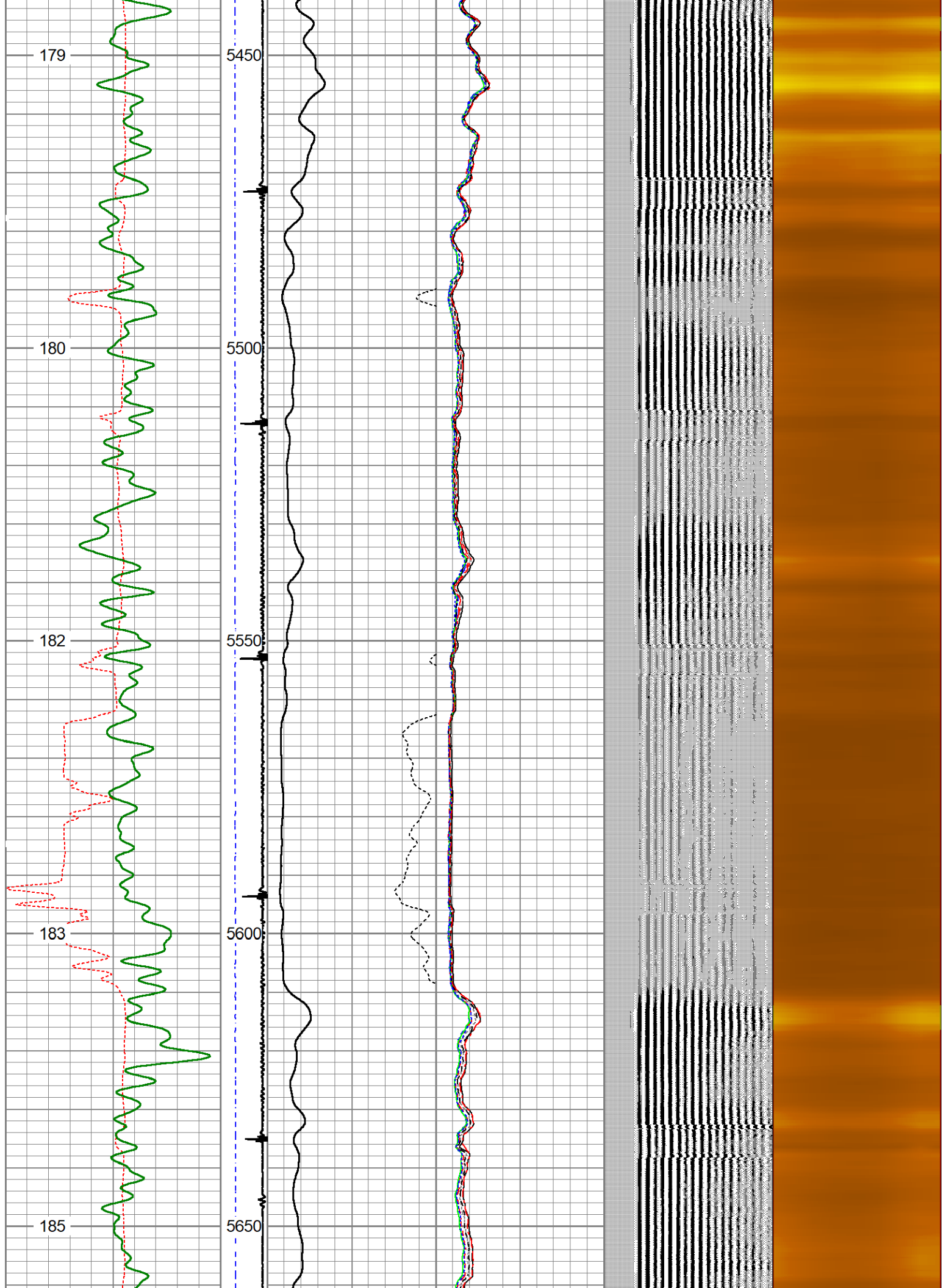


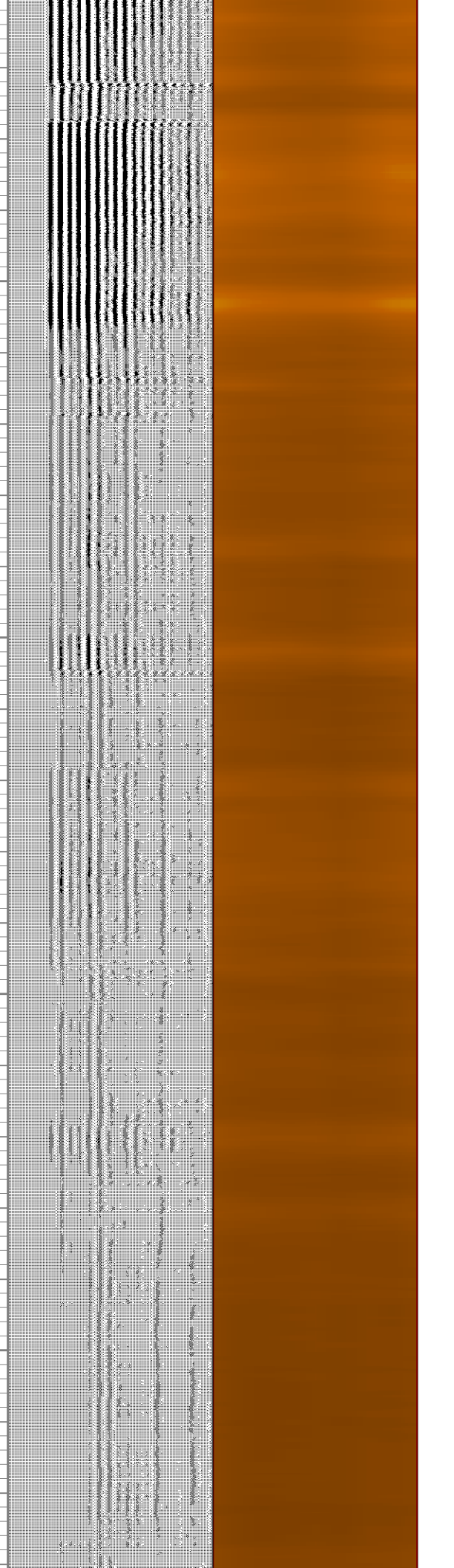
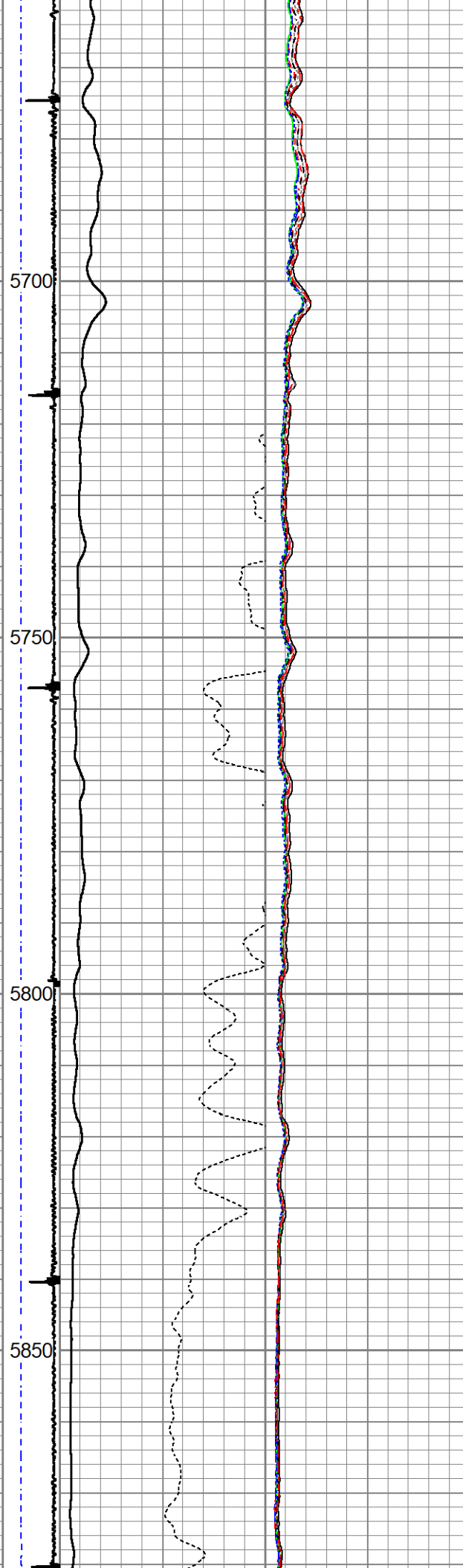
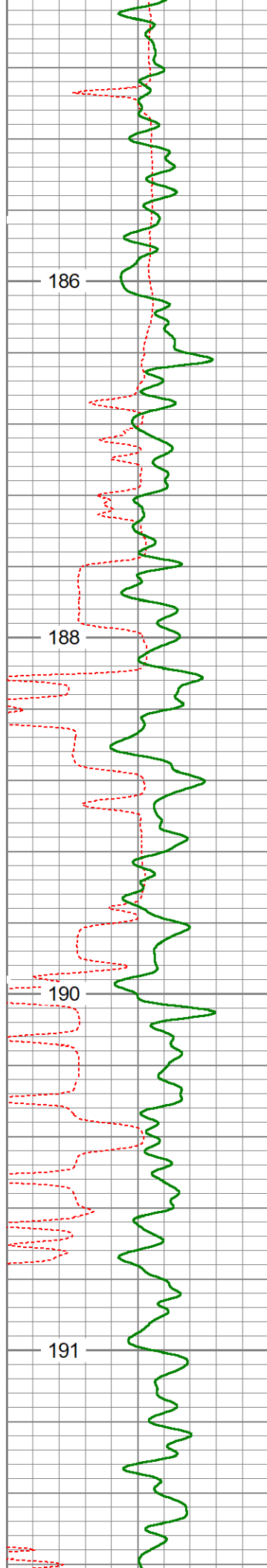


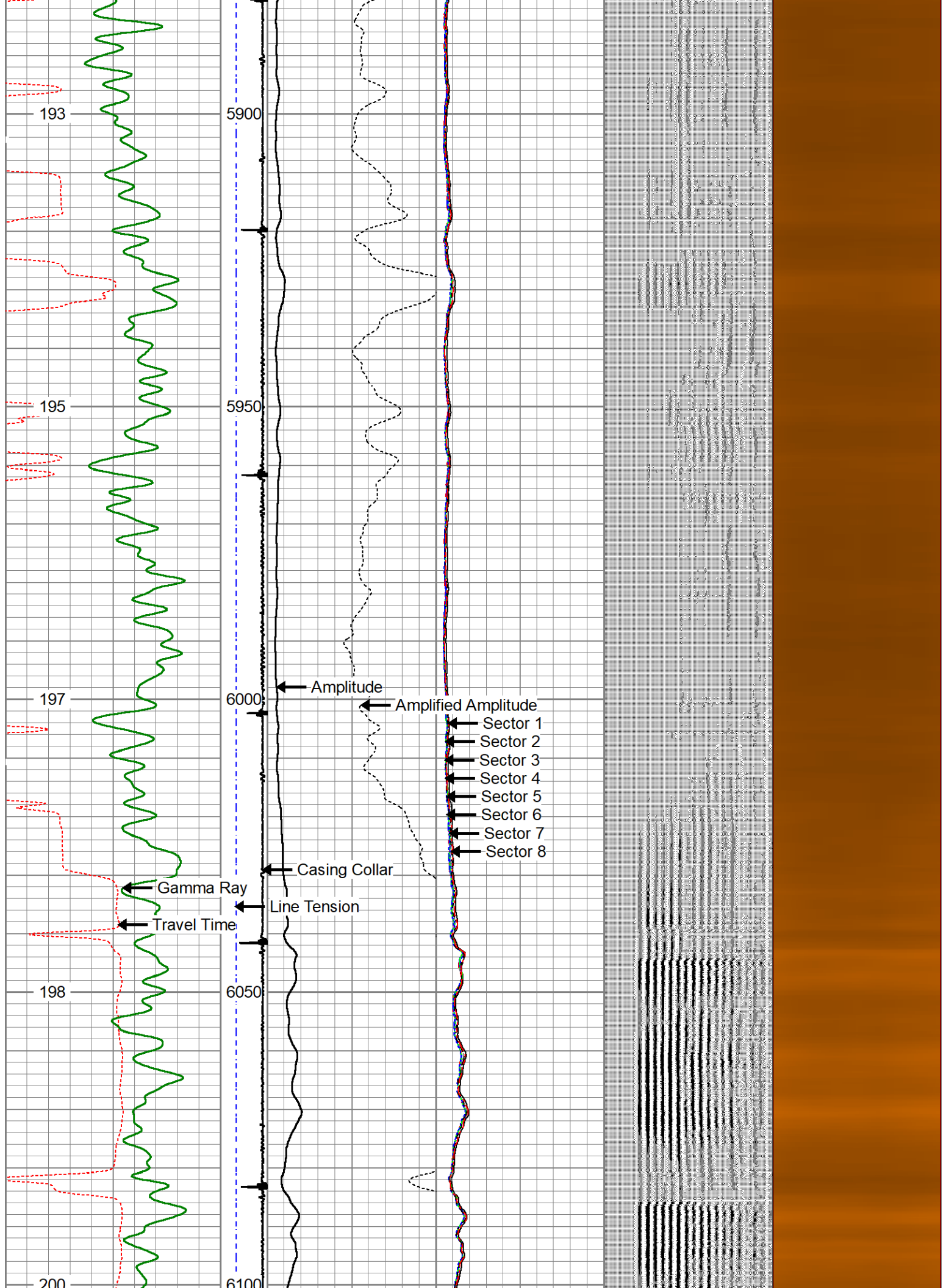


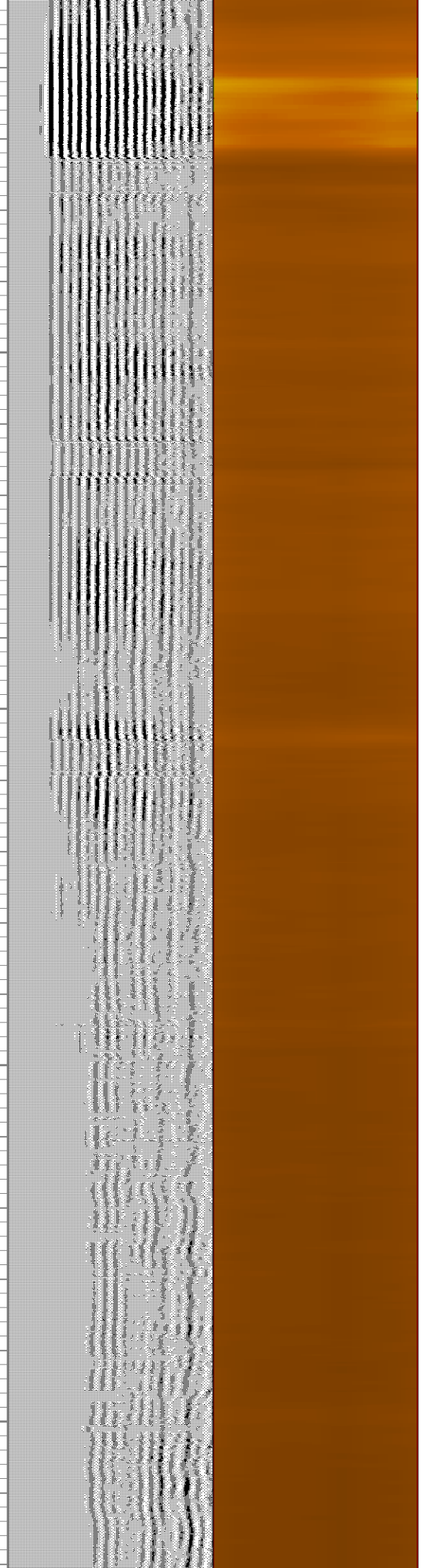
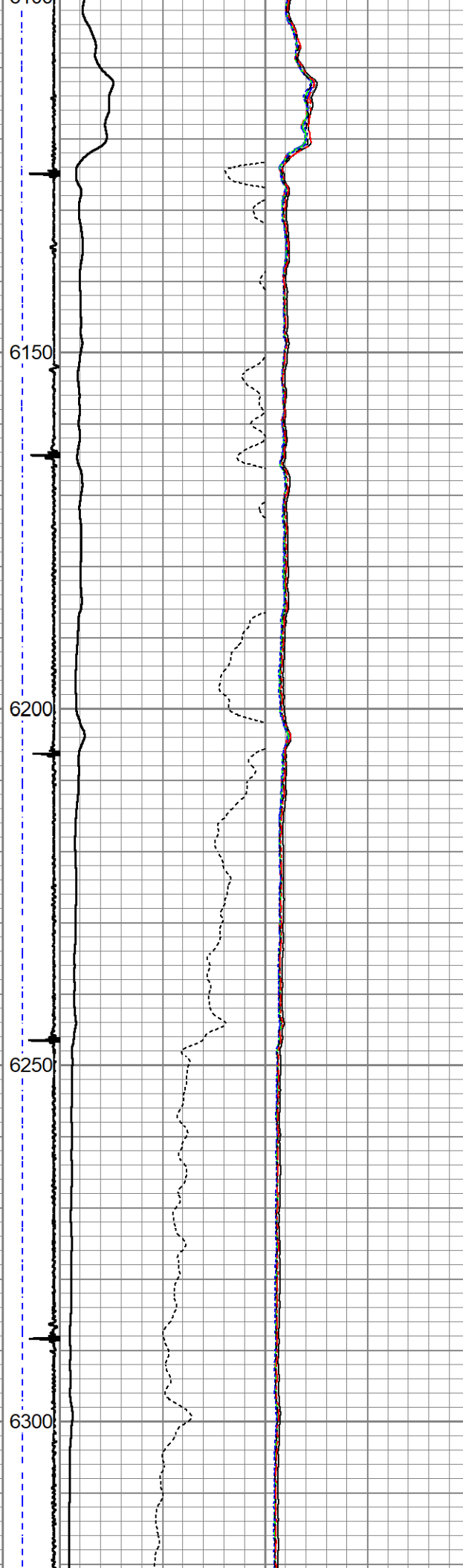
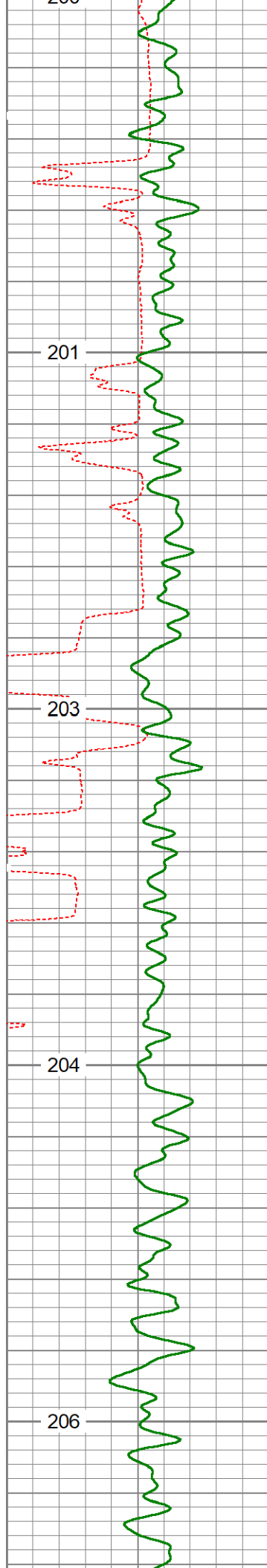


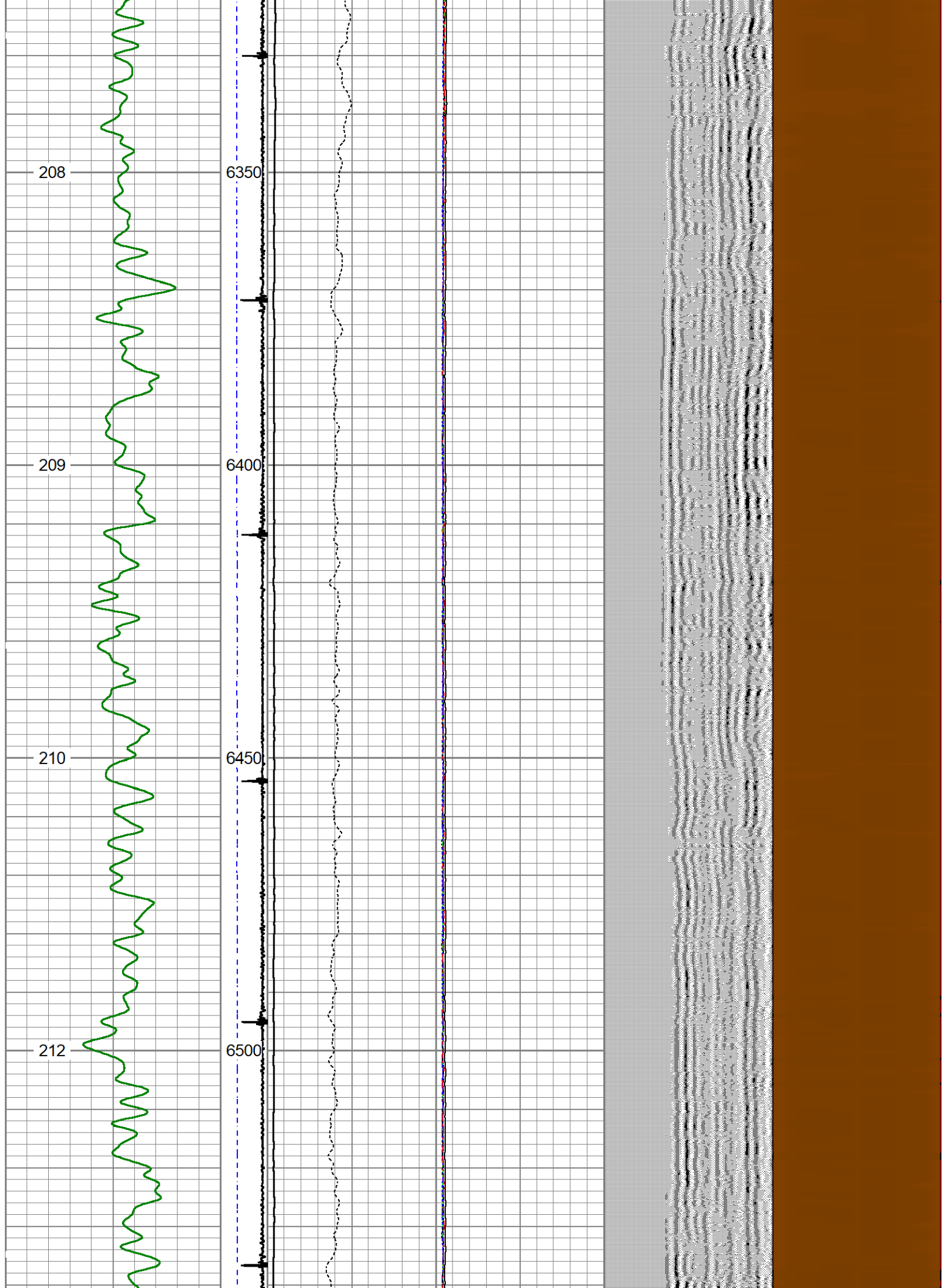


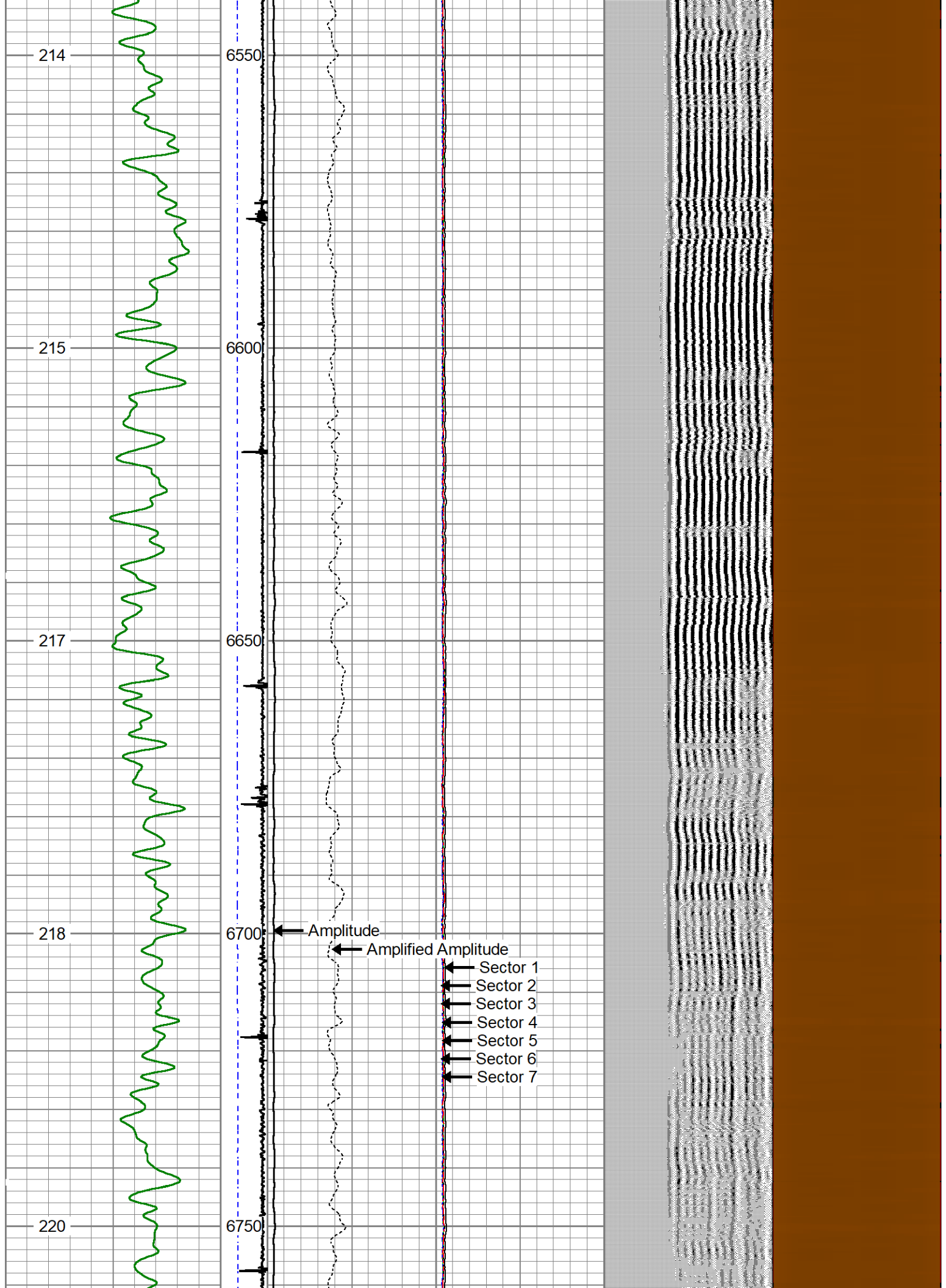


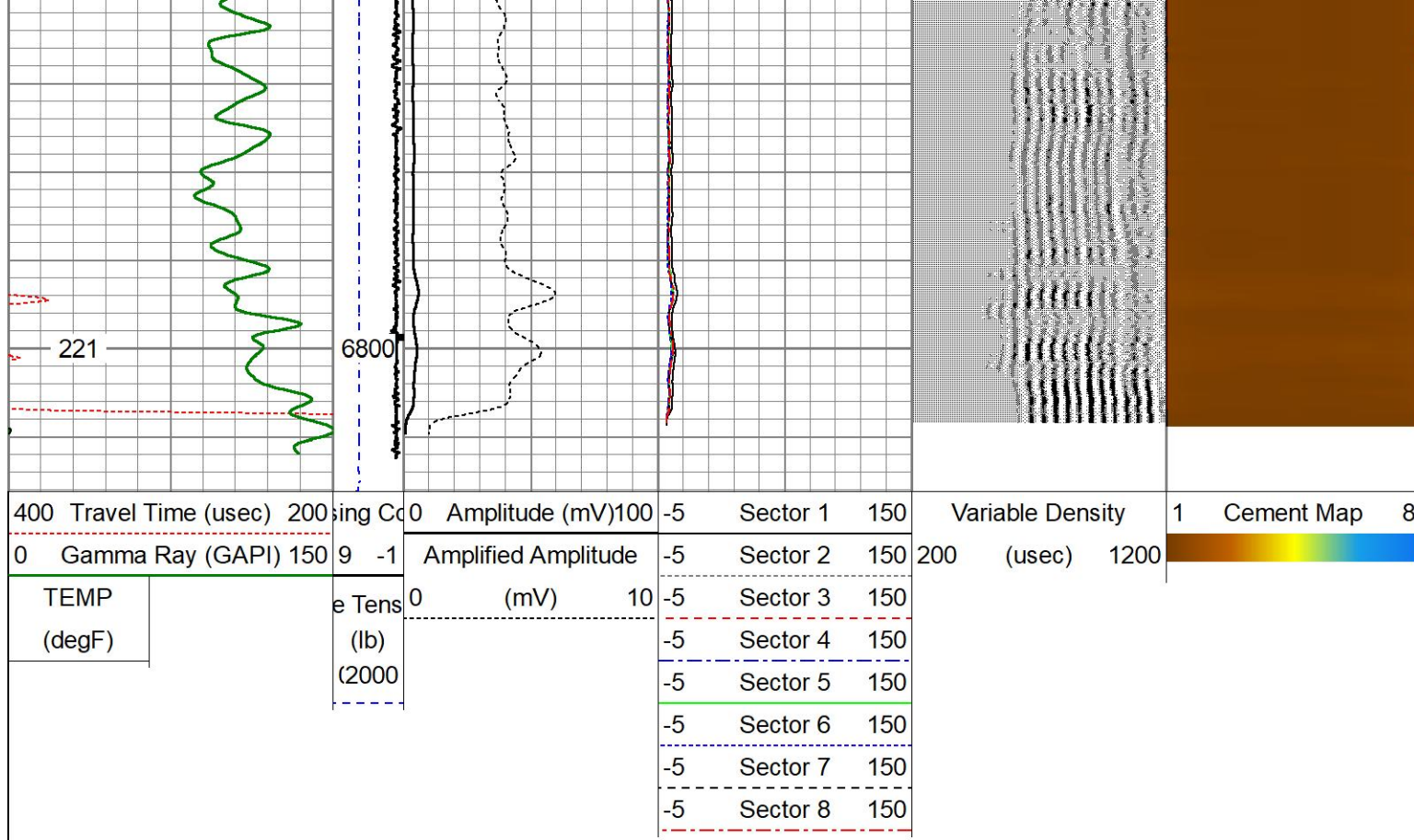






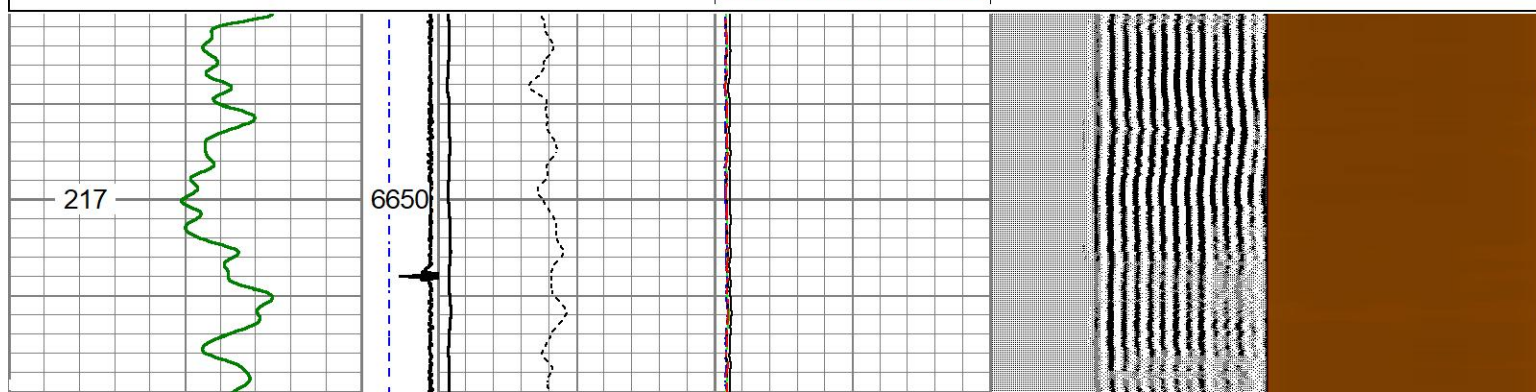
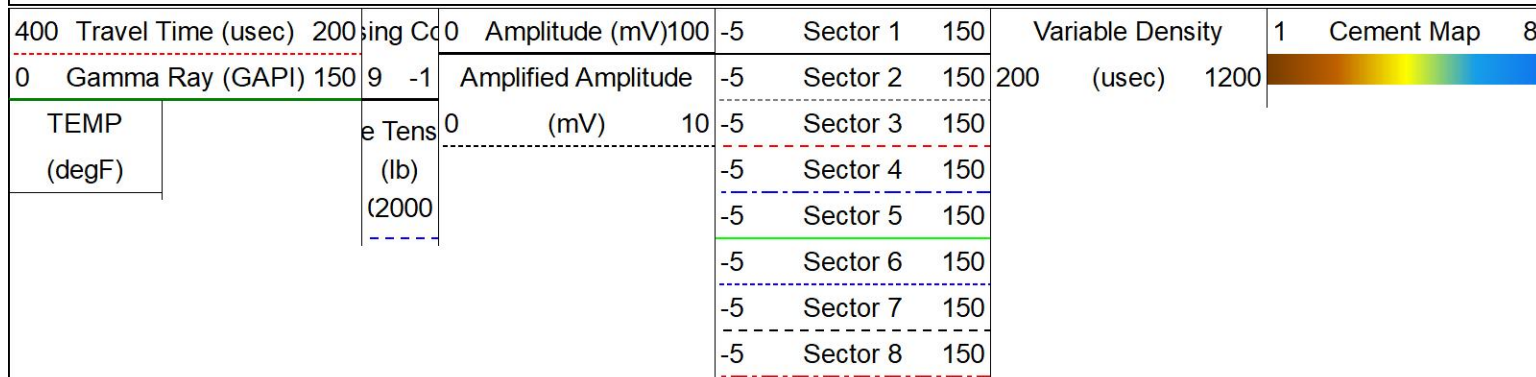


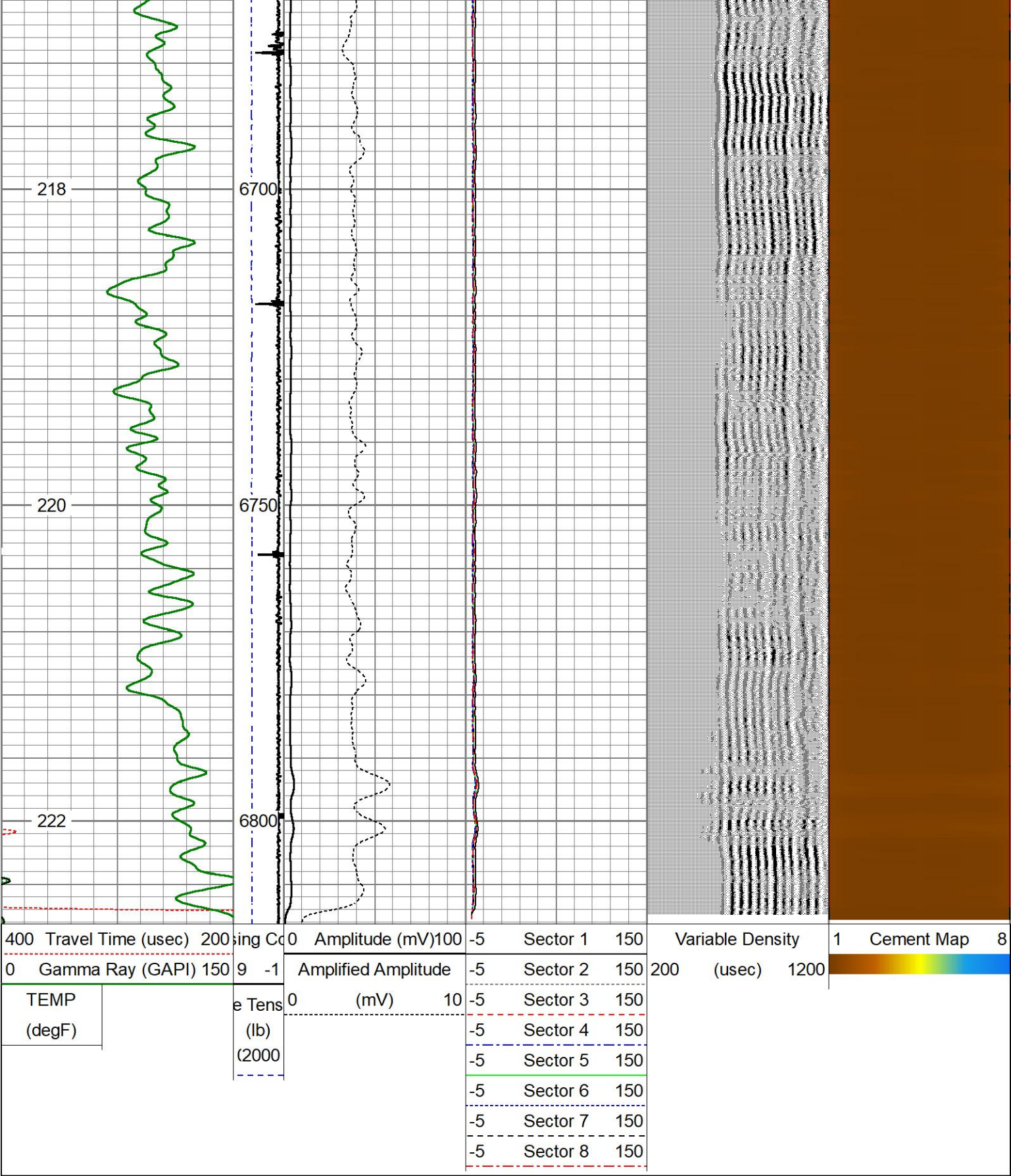






REPEAT PASS

Database File stroh 22-22 cbl.db
 Dataset Pathname pass3
 Presentation Format scbl03
 Dataset Creation Thu Sep 05 14:04:15 2019
 Charted by Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	13.92		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00

Temp	11.07					
			RBT-Probe 2.75 Radii W/Temp (121043) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS8	8.83					
WVFS7	8.83					
WVFS6	8.83					
WVFS5	8.83					
WVFS4	8.83					
WVFS3	8.83					
WVFS2	8.83					
WVFS1	8.83					
WVFCAL	8.83					
WVF3FT	8.83					
WVF5FT	7.83					
HEADVOLT	4.58					
CCL	3.64					
		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray GO Pin	4.58	2.75	57.00	
GR	0.90					
<div>Dataset: stroh 22-22 cbl.db: field/well/run1/pass4</div> <div>Total length: 14.98 ft</div> <div>Total weight: 152.00 lb</div> <div>O.D.: 2.75 in</div>						

Calibration Report	
Database File	stroh 22-22 cbl.db
Dataset Pathname	pass4
Dataset Creation	Thu Sep 05 14:09:03 2019
Gamma Ray Calibration Report	

Serial Number: FW1211-86
Tool Model: Probe
Performed: Mon Feb 03 13:18:32 2014

Calibrator Value: 1.0 GAPI
Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps
Sensitivity: 0.8000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 121043
Tool Model: Probe 2.75 Radii W/Temp
Calibration Casing Diameter: 4.500 in
Calibration Depth: 160.175 ft

Master Calibration, performed Thu Sep 05 13:30:58 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.637	1.000	81.196	125.952	1.000
CAL	0.000	0.555				
5'	0.000	0.331	1.000	81.196	242.343	1.000
SUM						
S1	0.000	0.584	0.000	100.000	171.331	0.000
S2	0.000	0.606	0.000	100.000	165.051	0.000
S3	0.000	0.636	0.000	100.000	157.140	0.000
S4	0.000	0.669	0.000	100.000	149.511	0.000
S5	0.000	0.691	0.000	100.000	144.740	0.000
S6	0.000	0.674	0.000	100.000	148.473	0.000
S7	0.000	0.630	0.000	100.000	158.806	0.000
S8	0.000	0.593	0.000	100.000	168.751	0.000

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.555	1.000	0.000

Air Zero Calibration, performed Thu Sep 05 13:19:16 2019:

	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