



RADIAL CEMENT BOND LOG
VARIABLE DENSITY
GAMMA RAY / CCL

Company		BAYSWATER EXPLORATION & PRODUCTION		Company		BAYSWATER EXPLORATION & PRODUCTION	
Well		MATRIX O-29HN		Well		MATRIX O-29HN	
Field		WATTENBERG		Field		WATTENBERG	
County		WELD		County		WELD	
State		COLORADO		State		COLORADO	
Location:		SEC 29 TWP 6N RGE 65W		APL # : 05123407000000		Other Services	
Permanent Datum		GL		Elevation		4708'	
Log Measured From		GL		Elevation		4708'	
Drilling Measured From		KELLY BUSHING		Elevation		4708'	
Date		24 MAR 2015		K.B. D.F. G.L.		4708'	
Run Number		1		Run Number		1	
Depth Driller		6711.54' LT		Depth Driller		6711.54' LT	
Depth Logger		6812'		Depth Logger		6812'	
Bottom Logged Interval		6807'		Bottom Logged Interval		6807'	
Top Log Interval		0'		Top Log Interval		0'	
Open Hole Size		8.75"		Open Hole Size		8.75"	
Type Fluid		Water		Type Fluid		Water	
Density / Viscosity		8.34		Density / Viscosity		8.34	
Max. Recorded Temp.		N/A		Max. Recorded Temp.		N/A	
Estimated Cement Top		SURFACE		Estimated Cement Top		SURFACE	
Time Well Ready		14:30		Time Well Ready		14:30	
Time Logger on Bottom		15:00		Time Logger on Bottom		15:00	
Equipment Number		13034		Equipment Number		13034	
Location		Brighton CO		Location		Brighton CO	
Recorded By		Jon Ostler		Recorded By		Jon Ostler	
Witnessed By		Jack Bruner		Witnessed By		Jack Bruner	
Run Number		Bit		Run Number		Bit	
From		To		From		To	
Size		Weight		Size		Weight	
From		To		From		To	
Casing Record		Size		Casing Record		Size	
Surface String		7"		Surface String		7"	
Production String		4.5"		Production String		4.5"	
Liner		6925		Liner		6925	

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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.

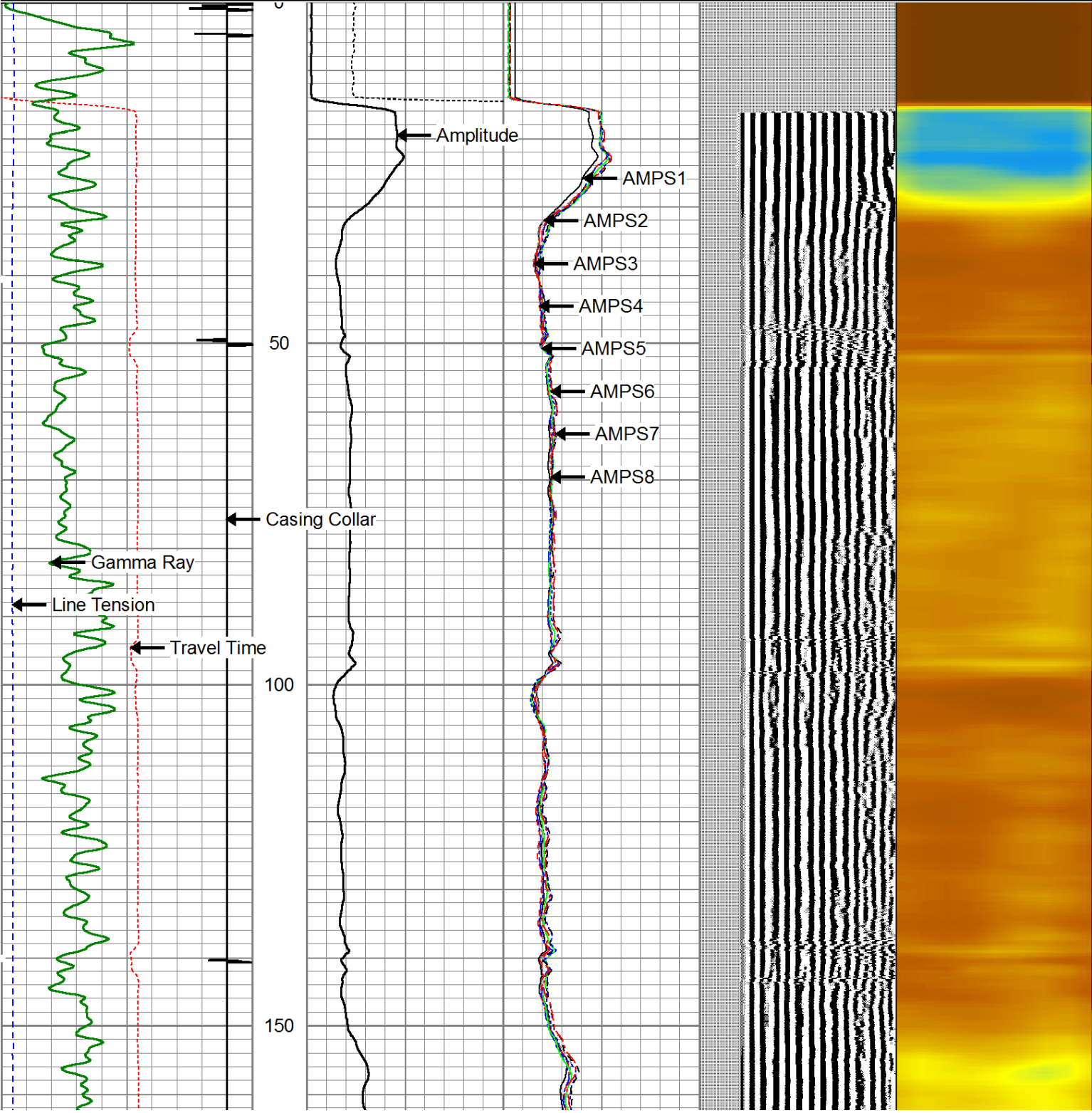
Comments

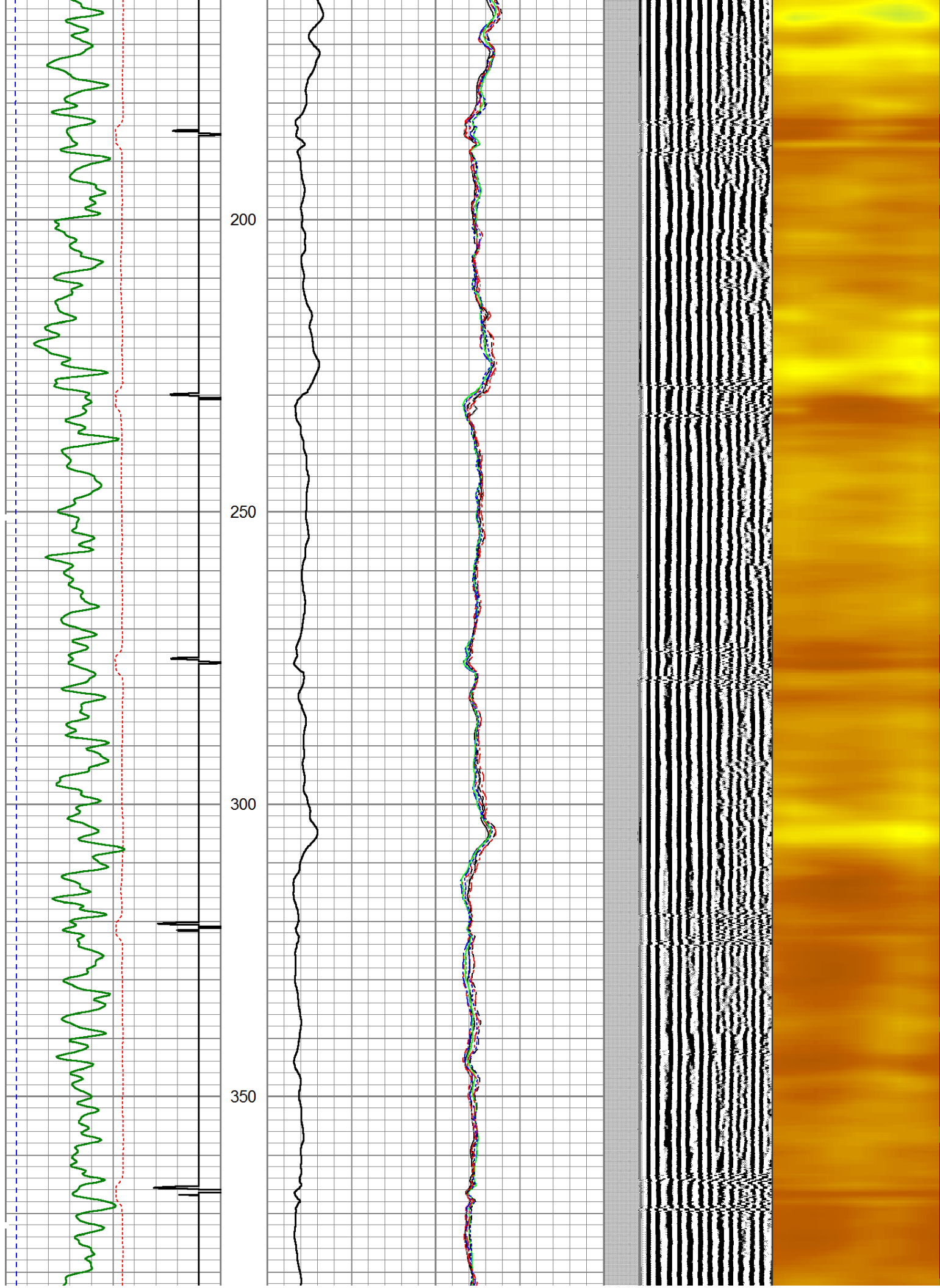
Primary Log on Well

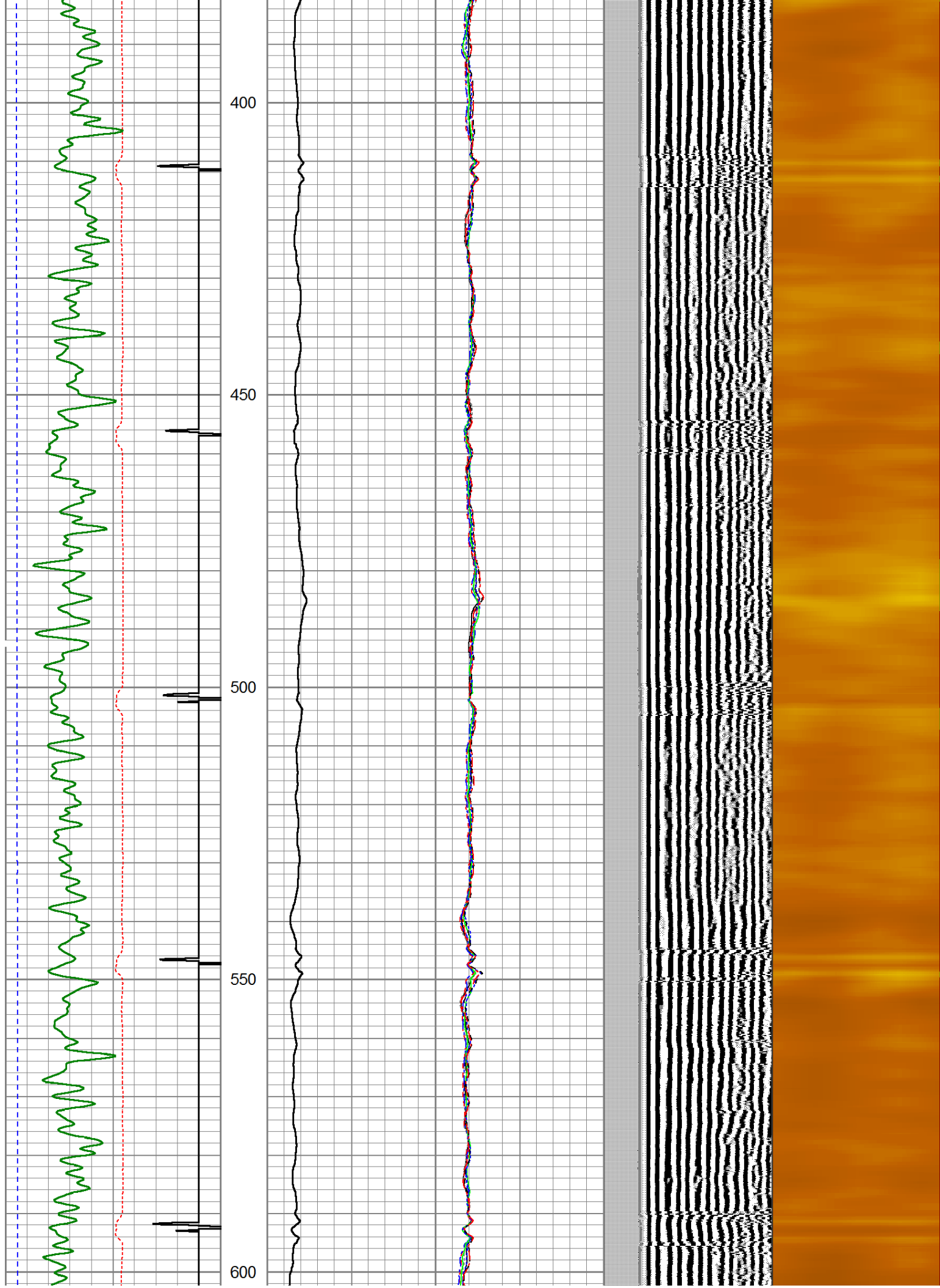
Log Measured from Ground Level
Main and Repeat Pass logged w/ 0 PSI
Estimated Top of Cement @ Surface

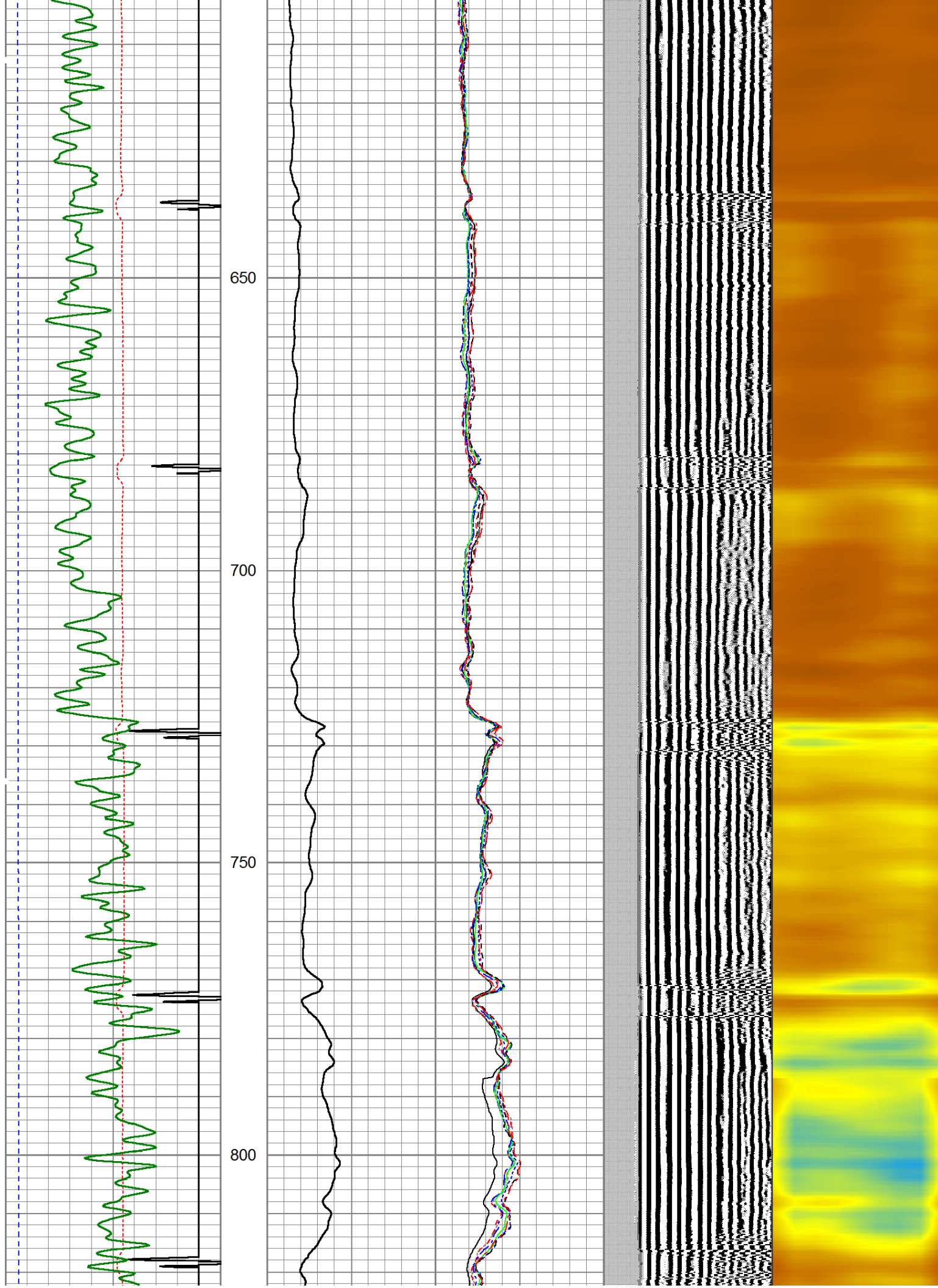
Thank you for using Allied Horizontal Wireline Service
(303) 659-4609

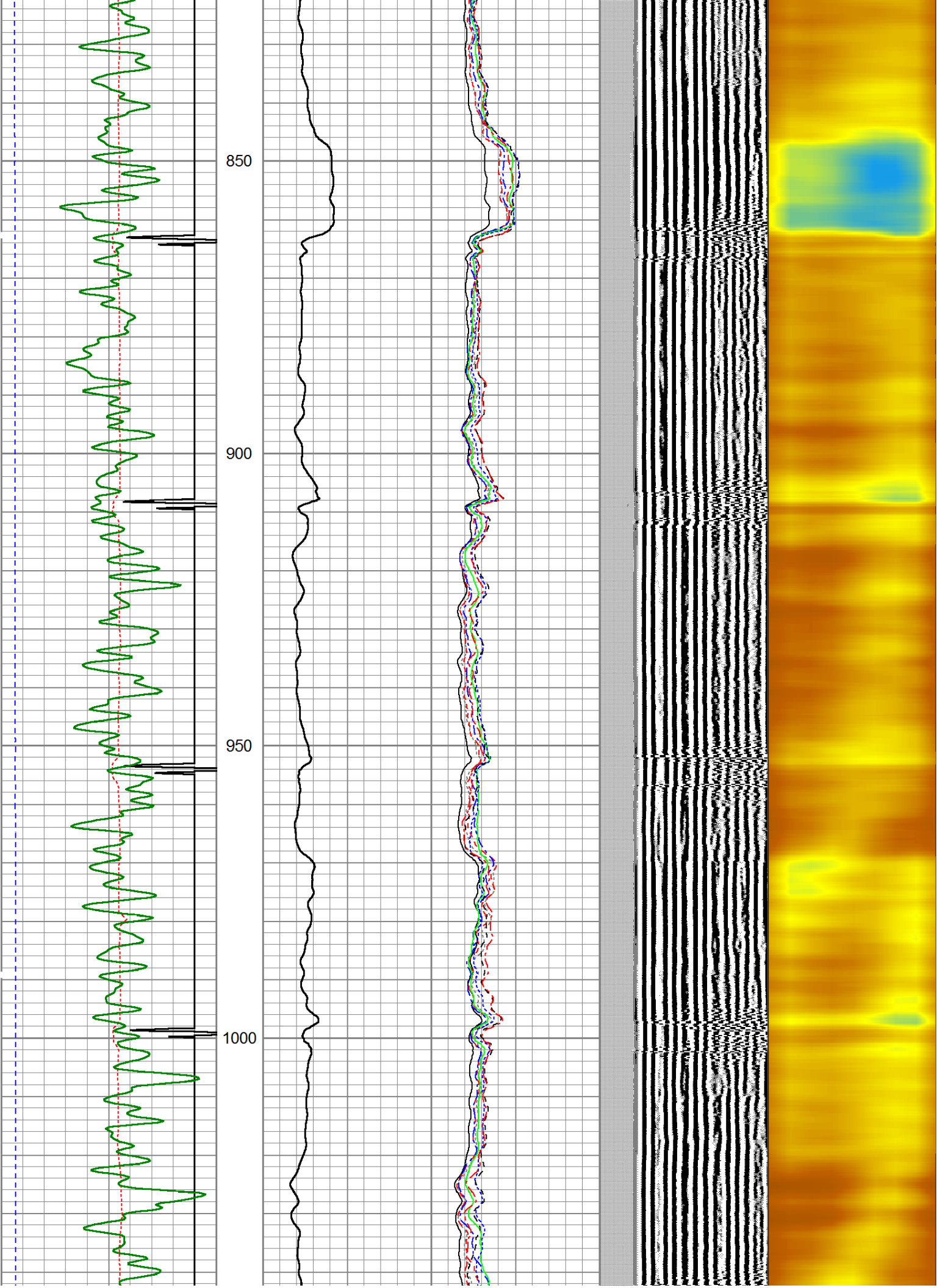
400	Travel Time (usec)	200	0	Amplitude (mV)	100	-5	AMPS1	150	Variable Density		1	Cement Map	8			
9	Casing Collar	-1	Amplified Amplitude		-5	AMPS2	150	200	1200	0						
0	Gamma Ray (GAPI)	150	0	(mV)	10	-5	AMPS3	150								
					-5	AMPS4	150									
					-5	AMPS5	150									
					-5	AMPS6	150									
					-5	AMPS7	150									
					-5	AMPS8	150									

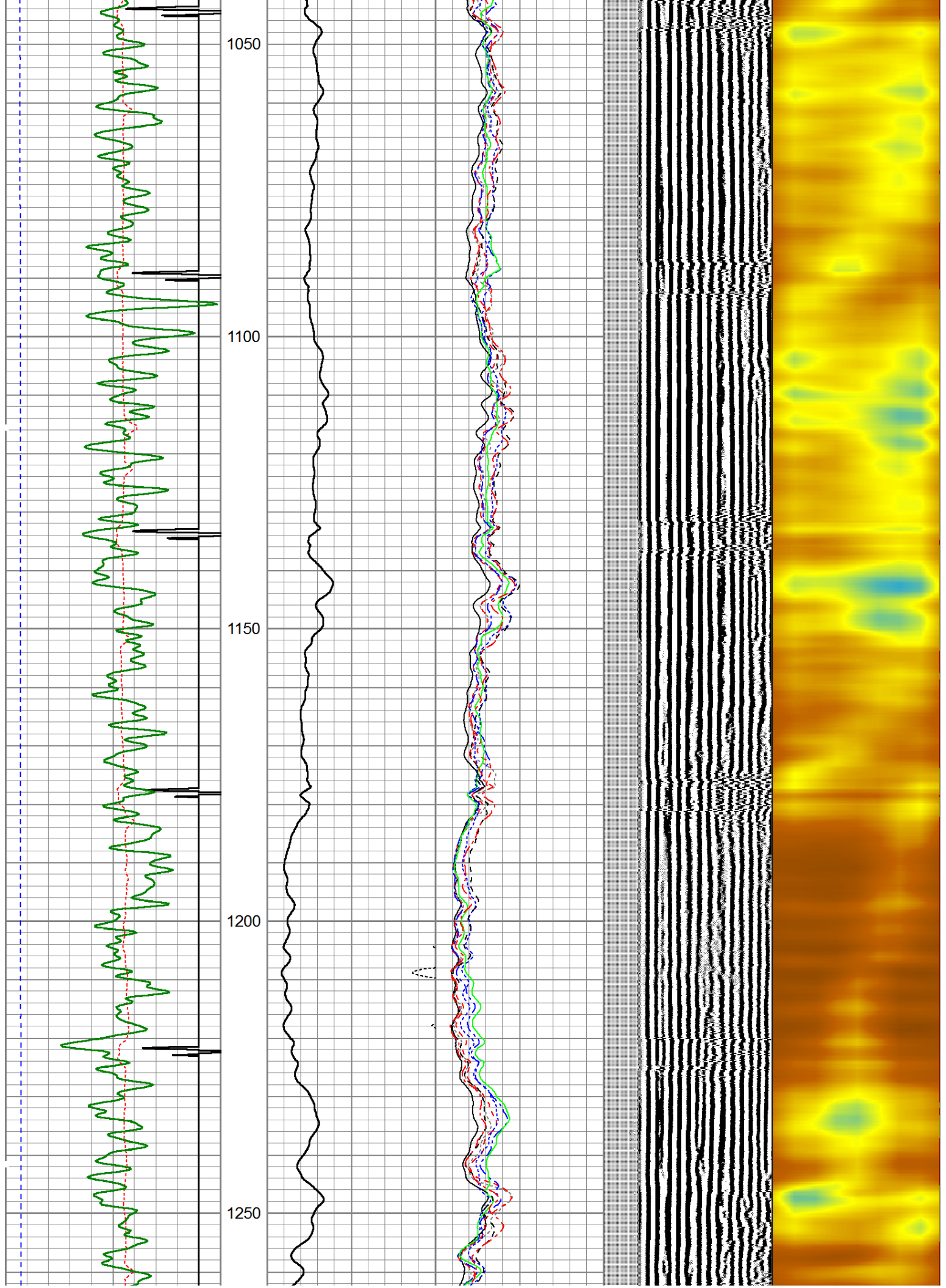


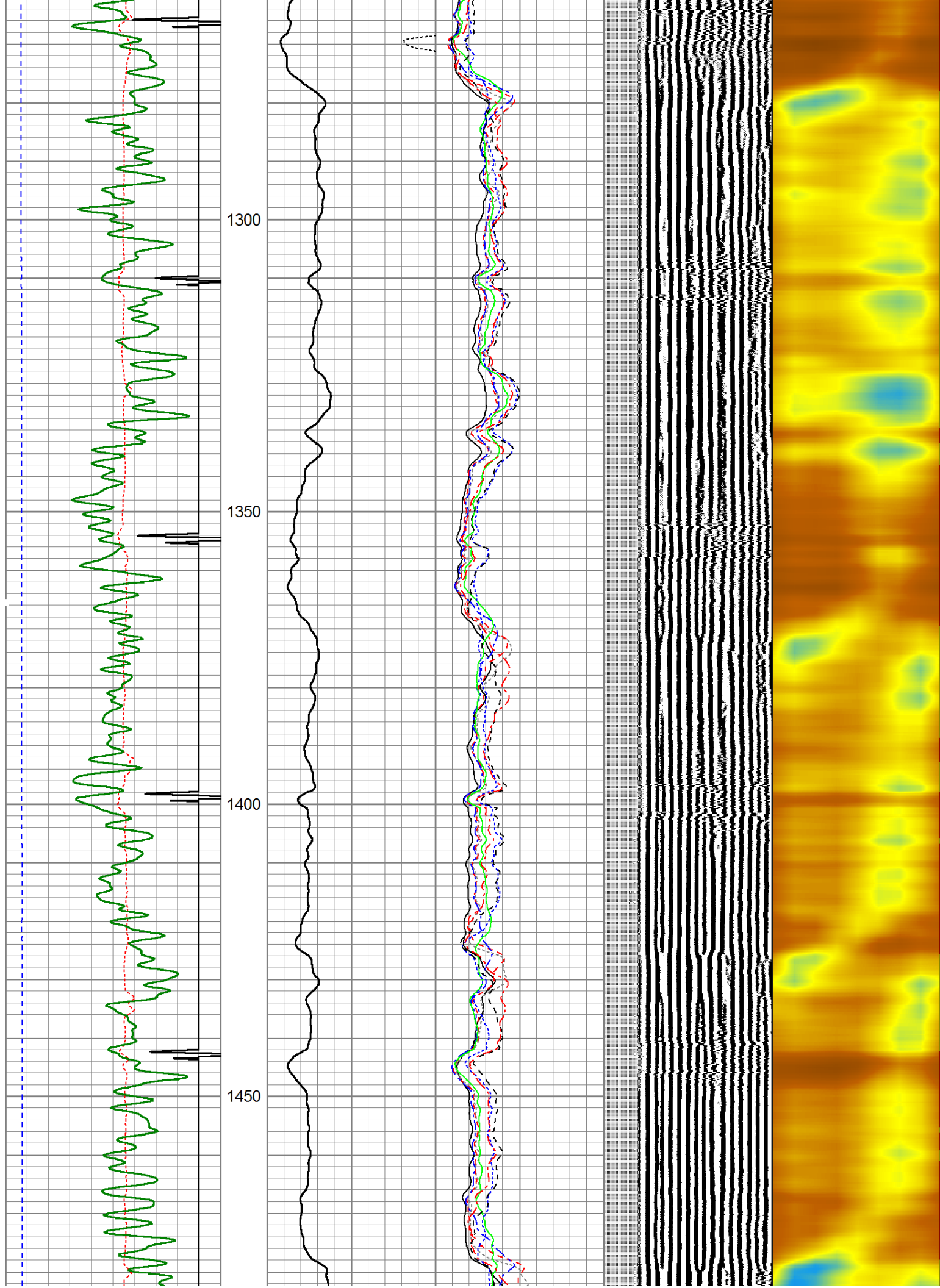


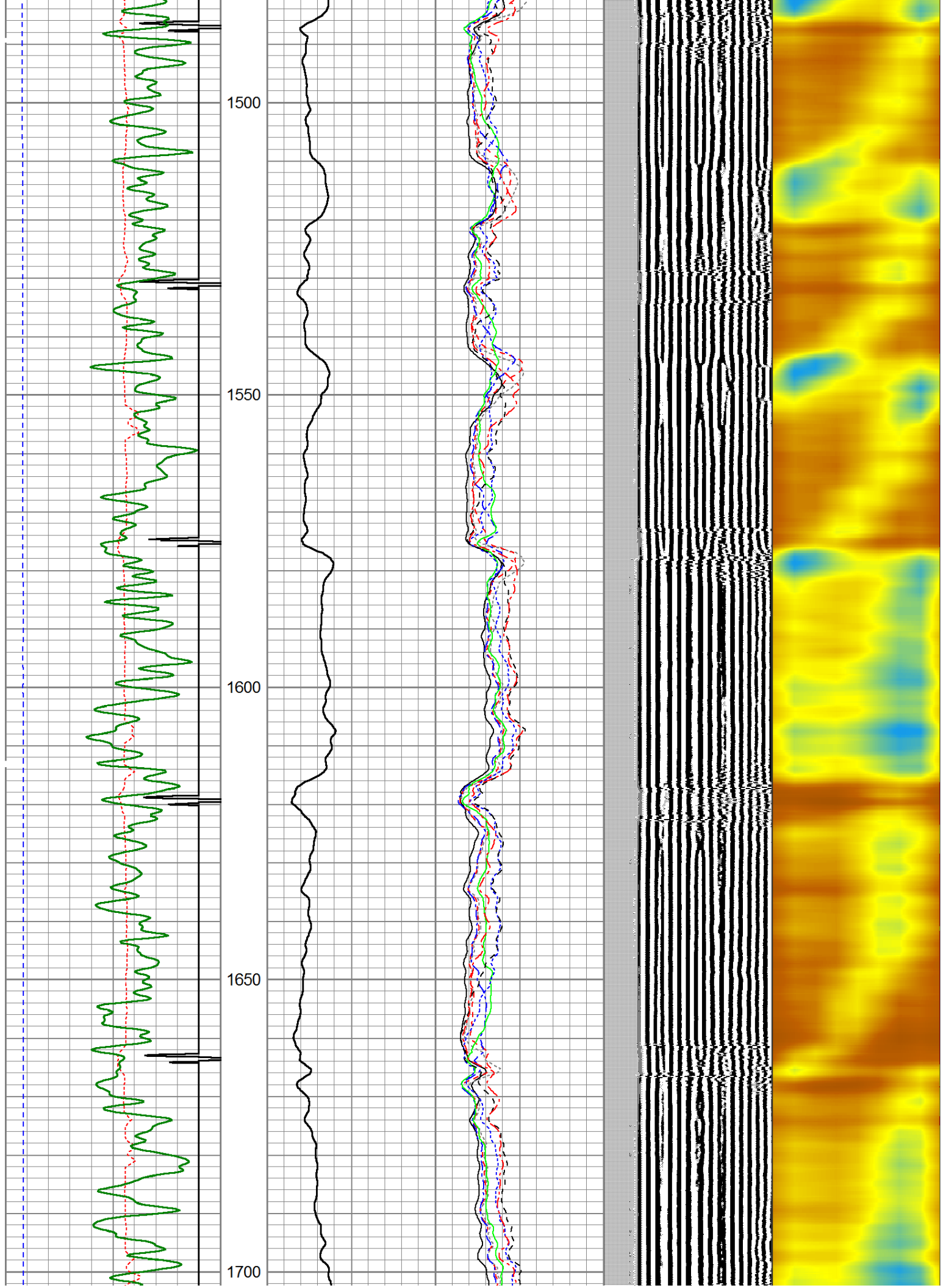


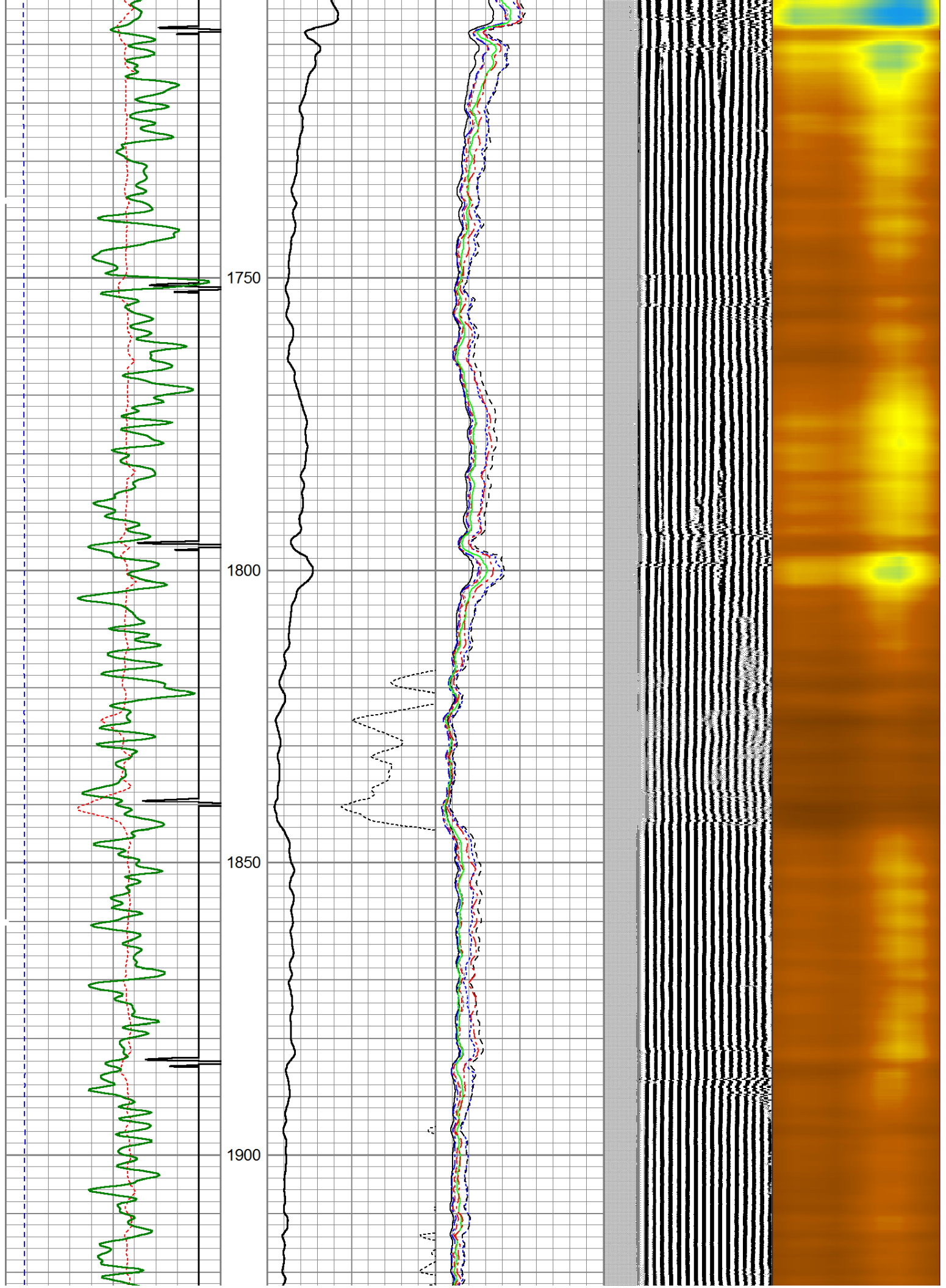


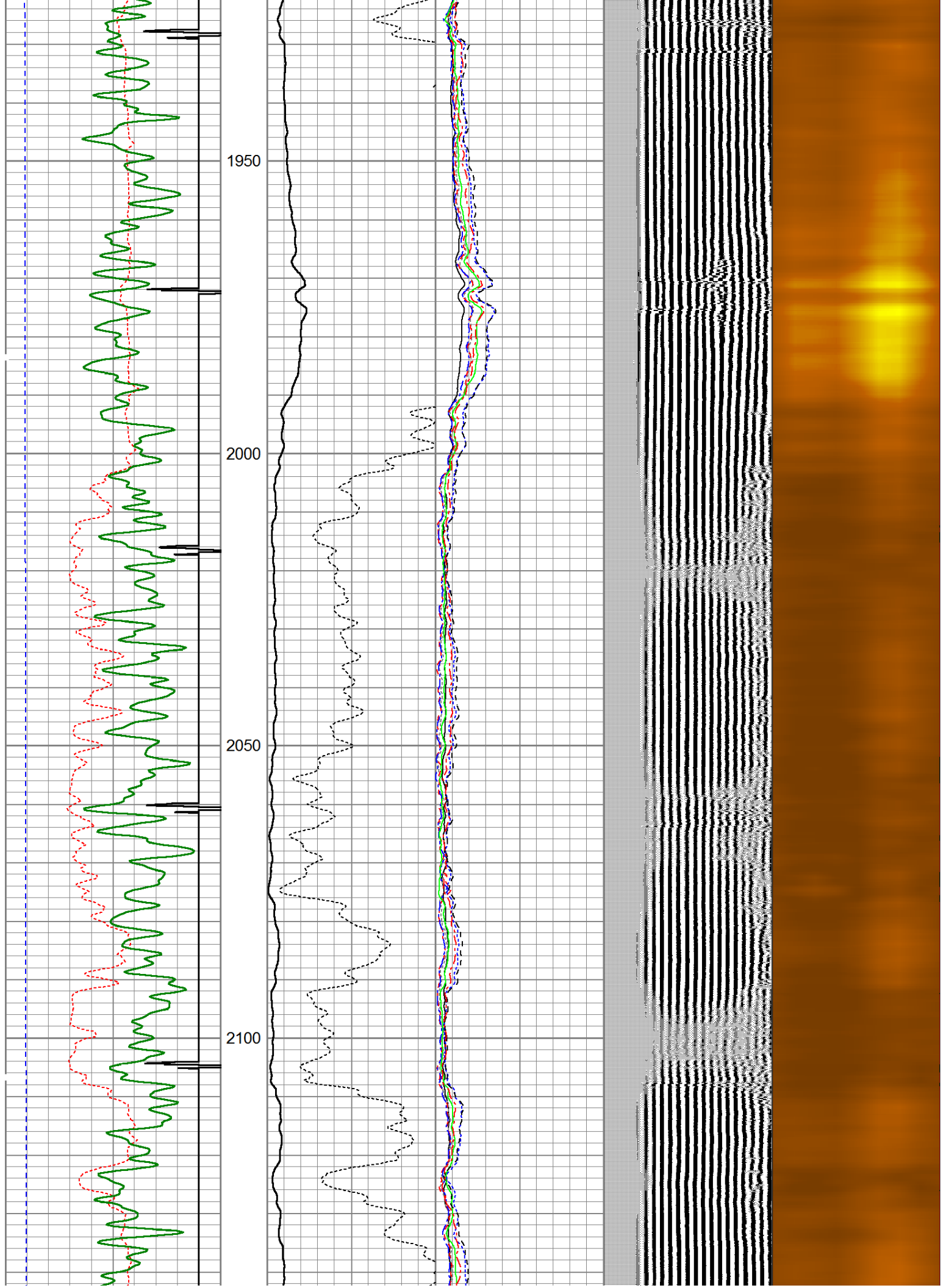


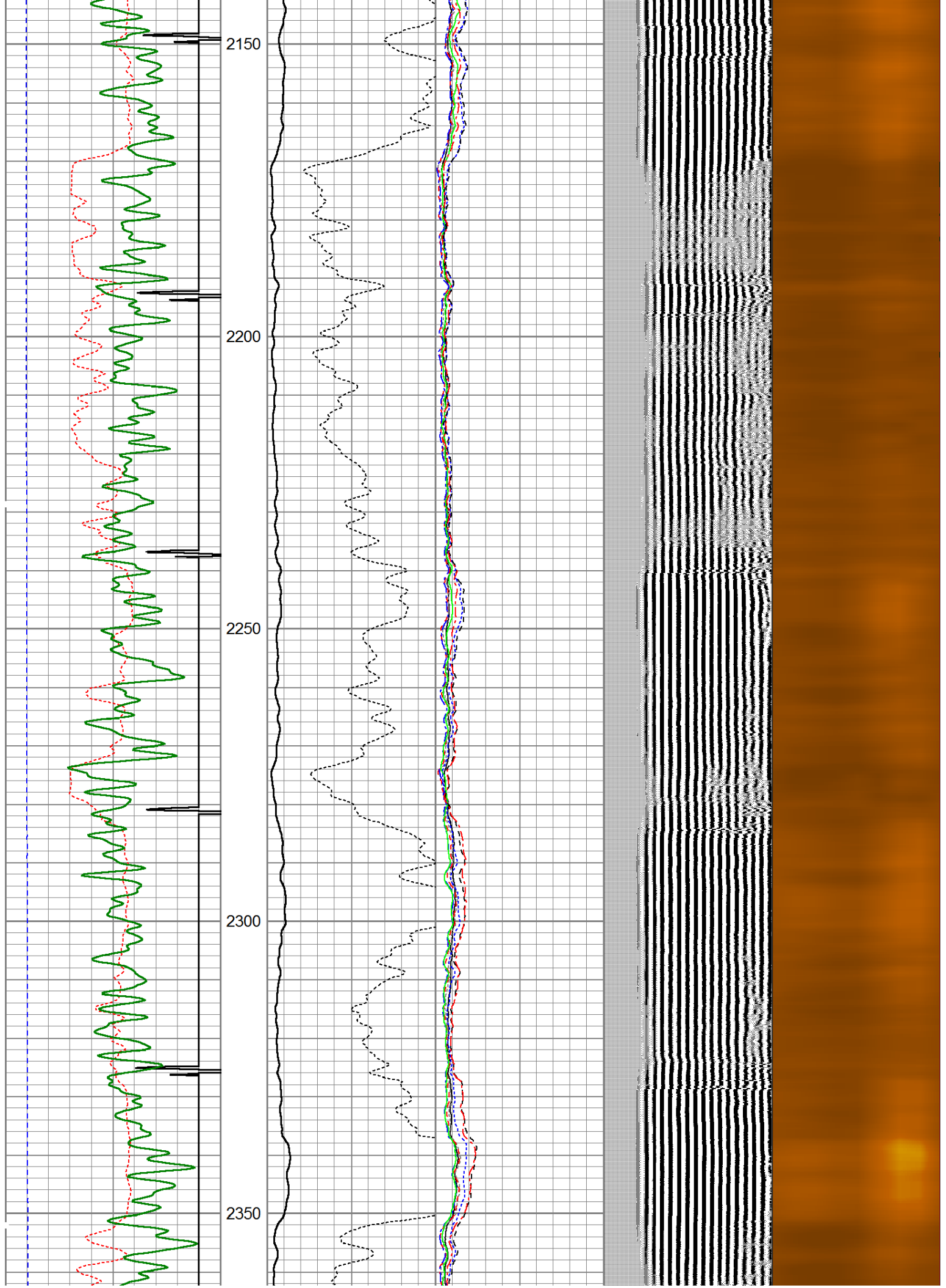


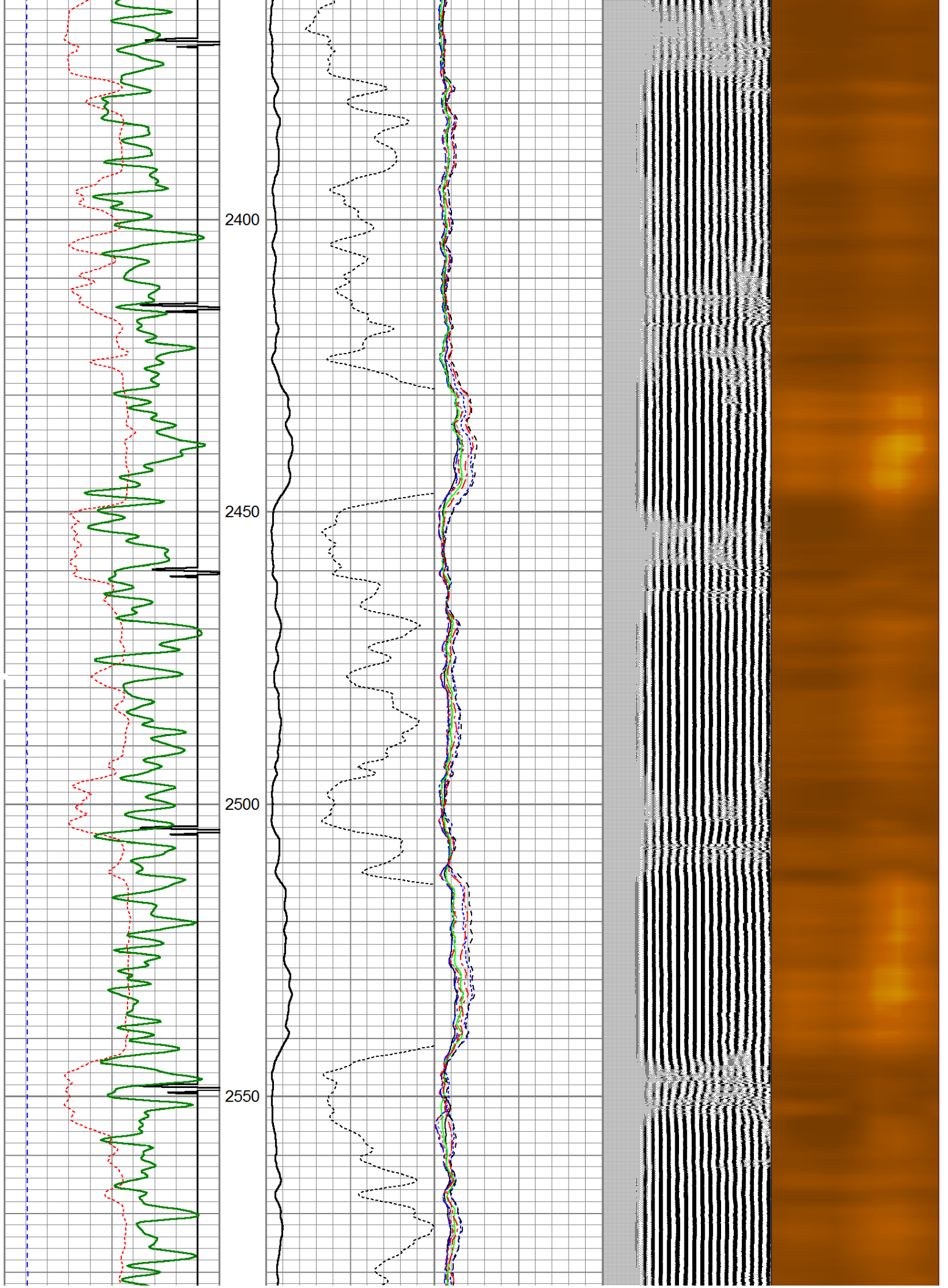


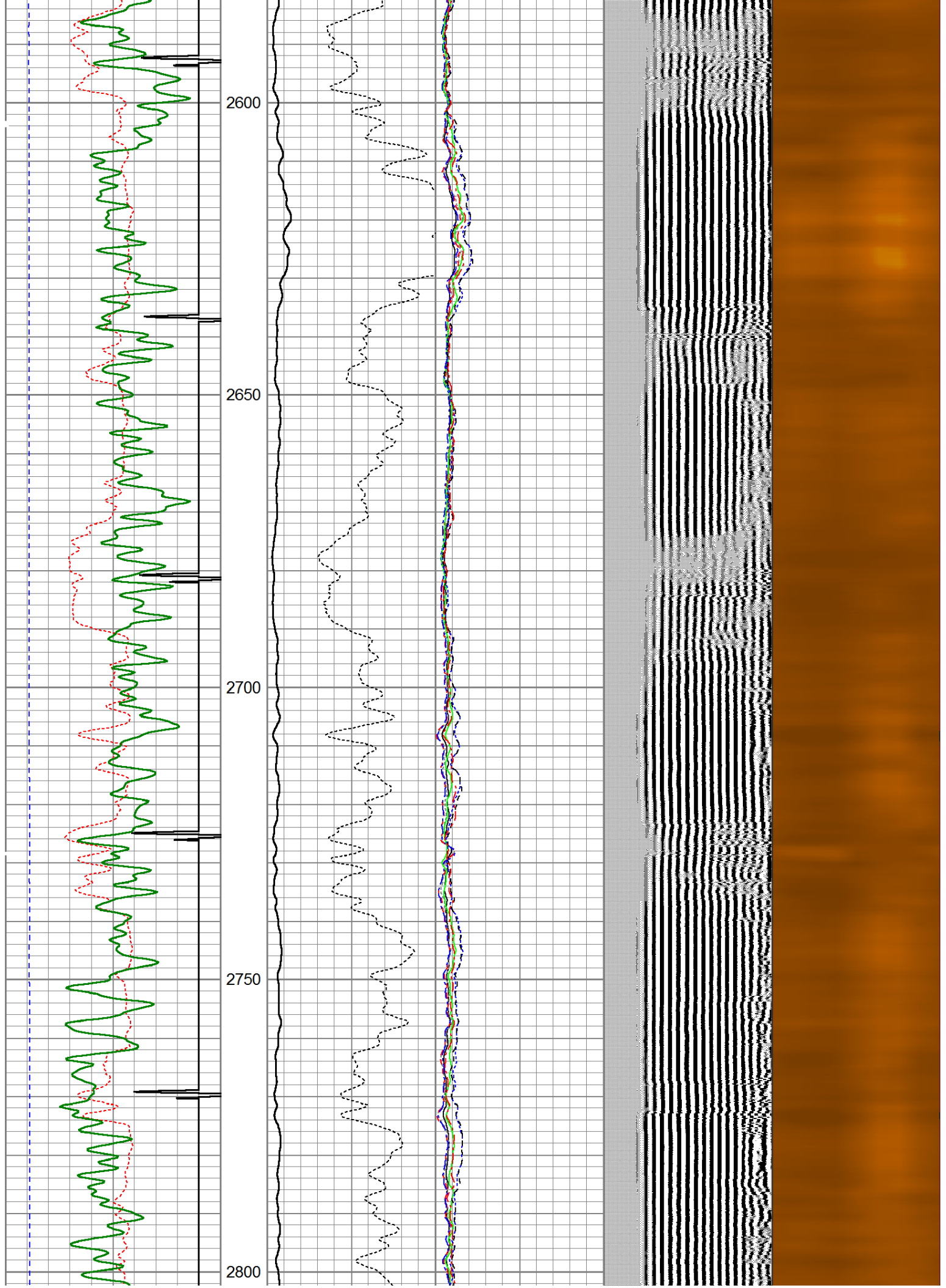


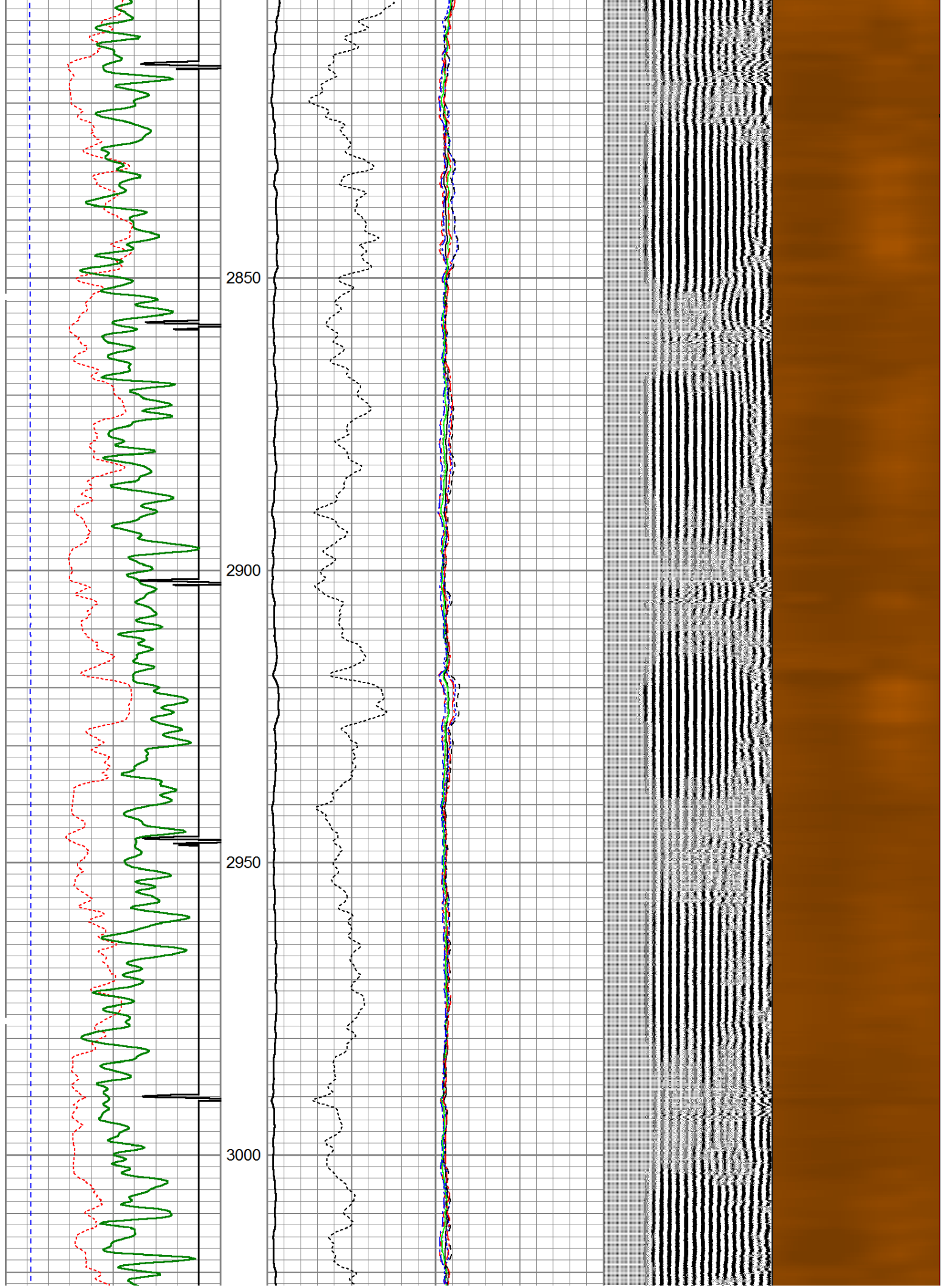


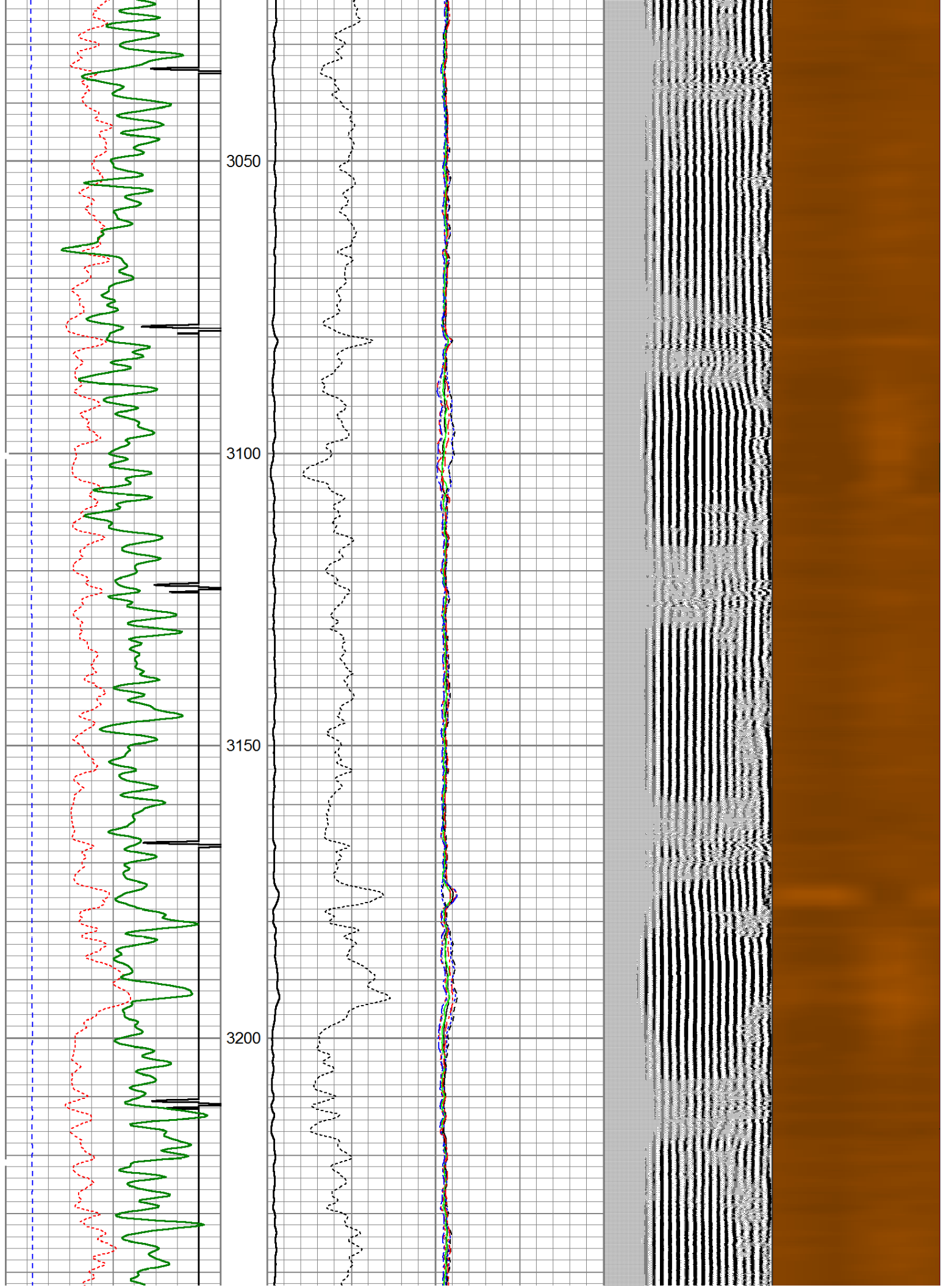


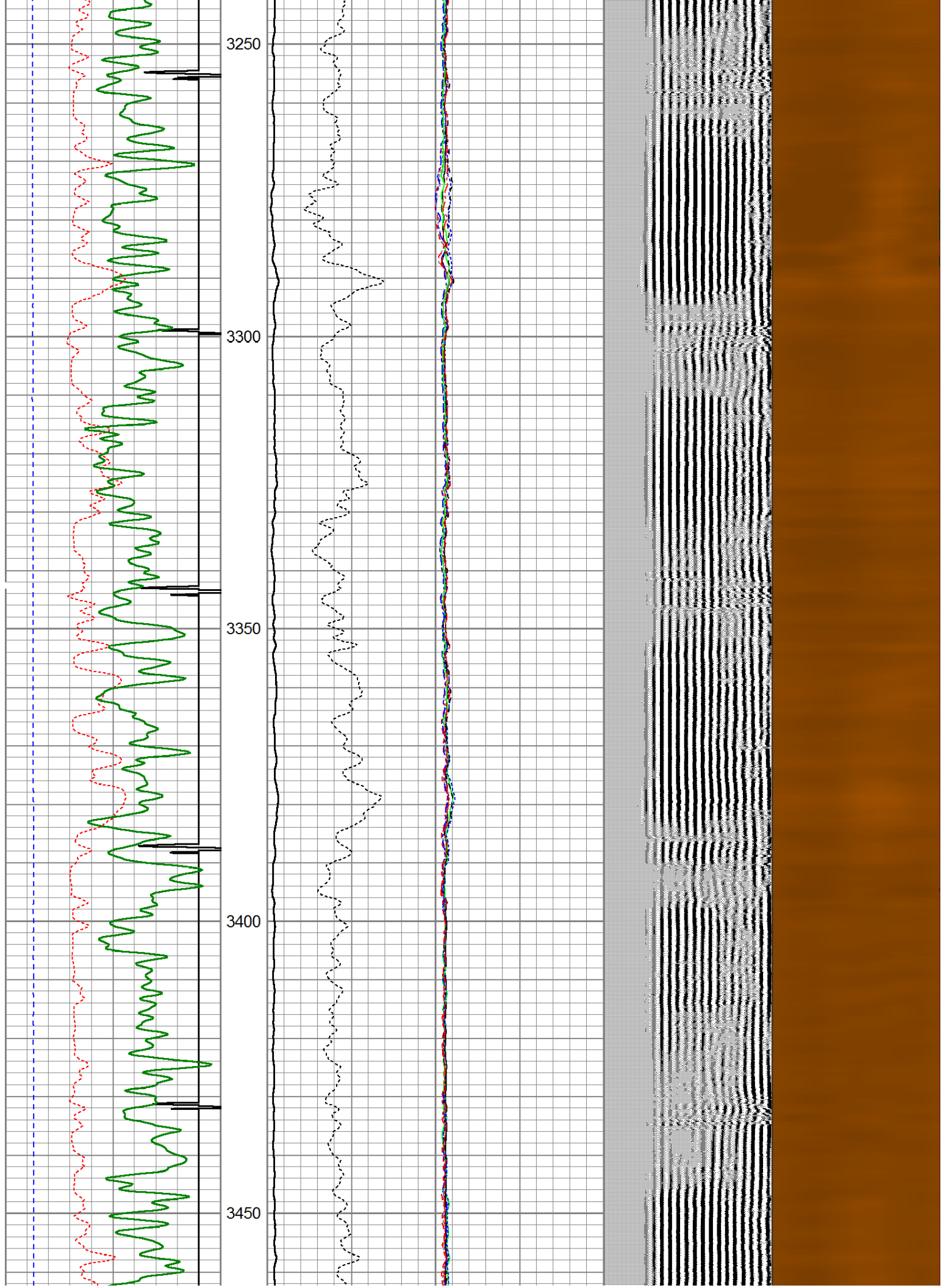


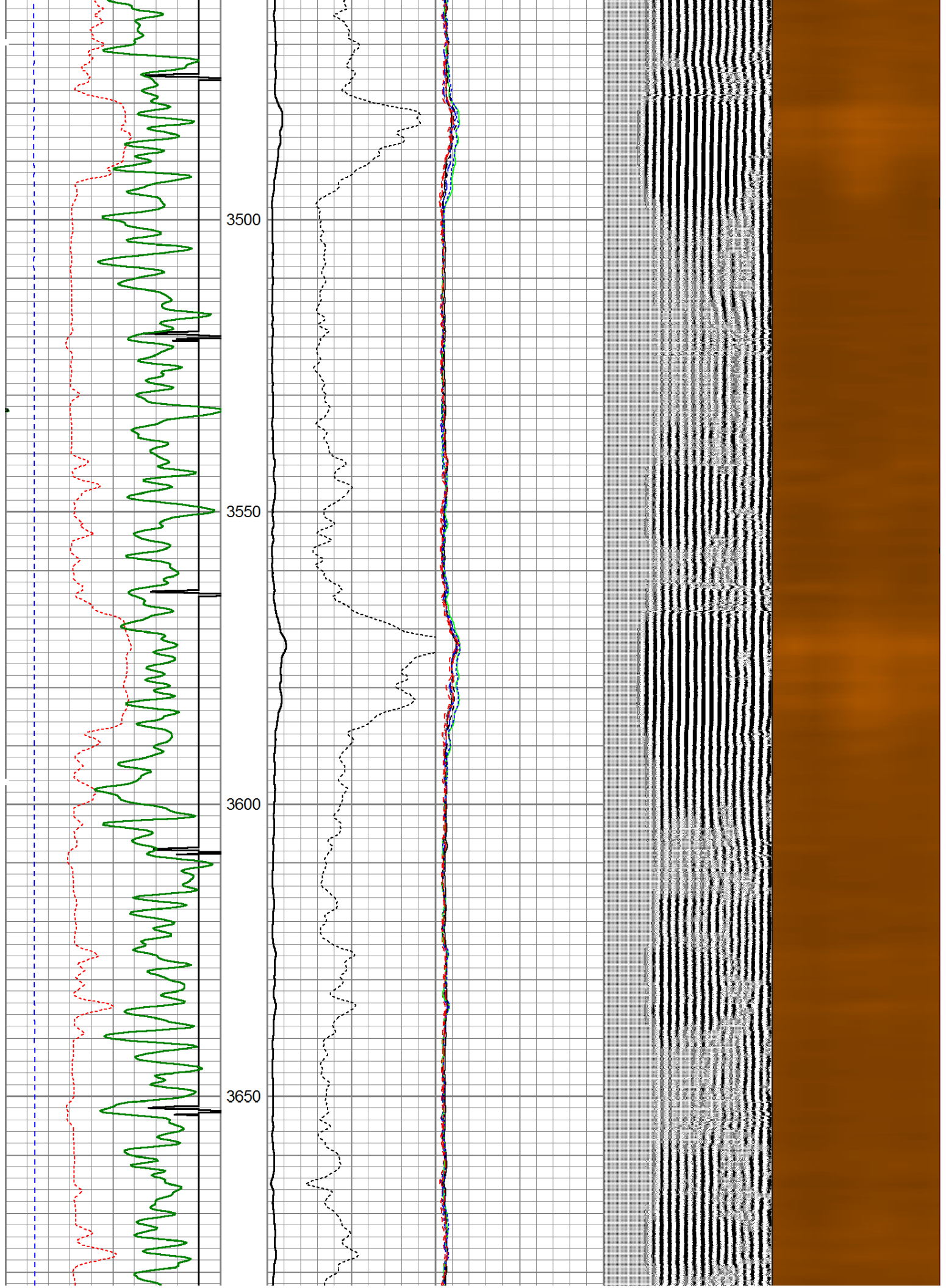


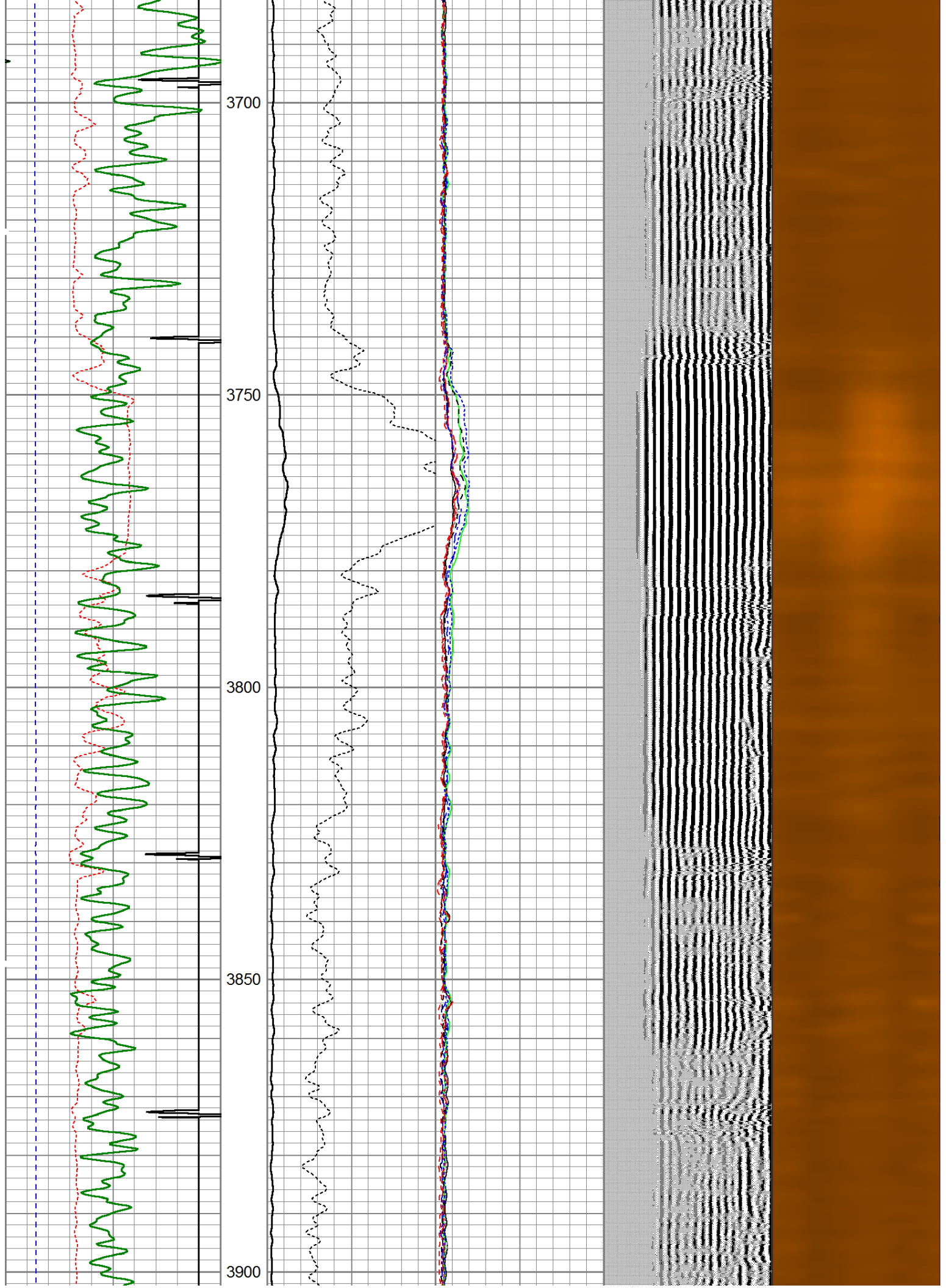


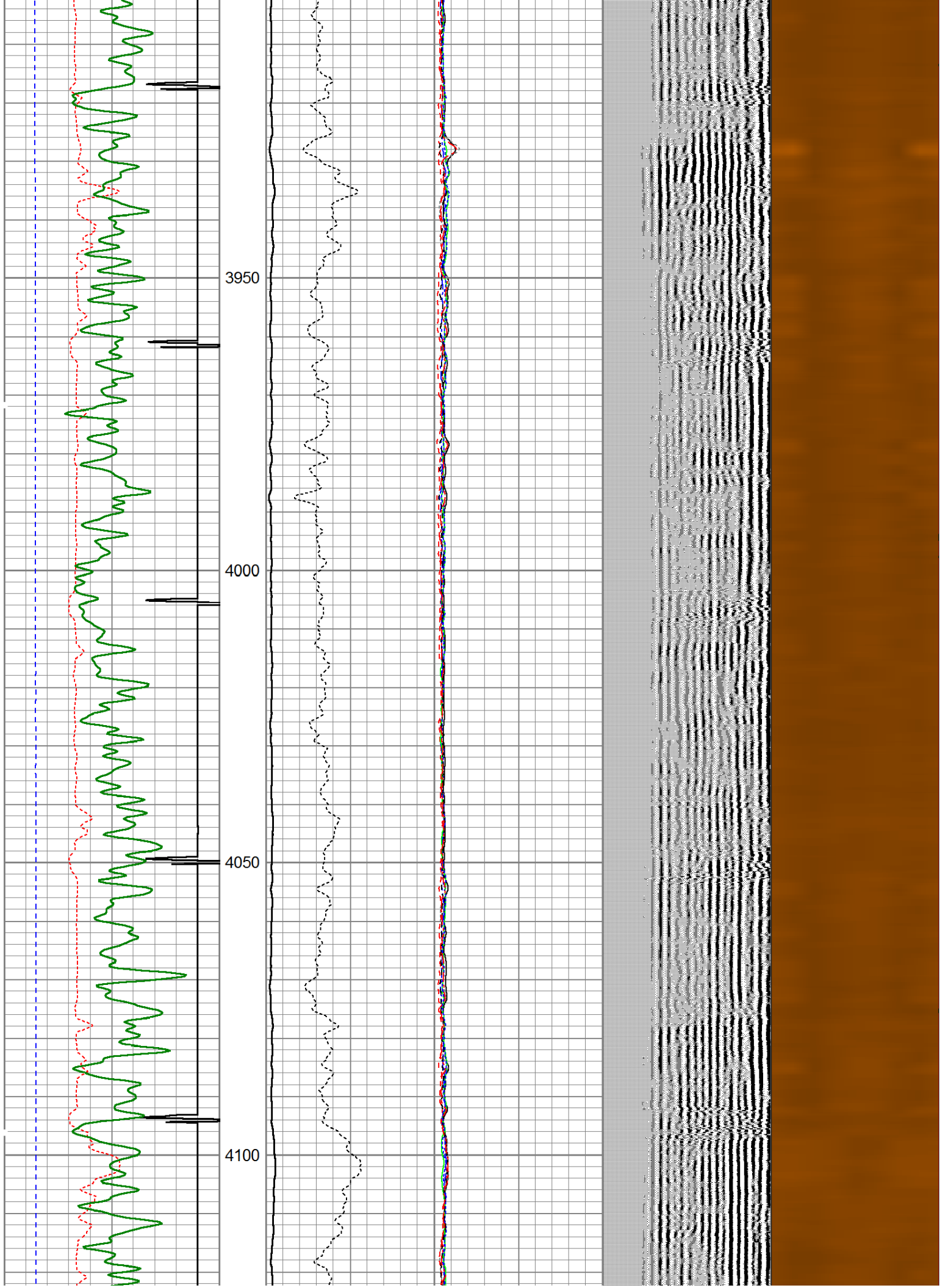


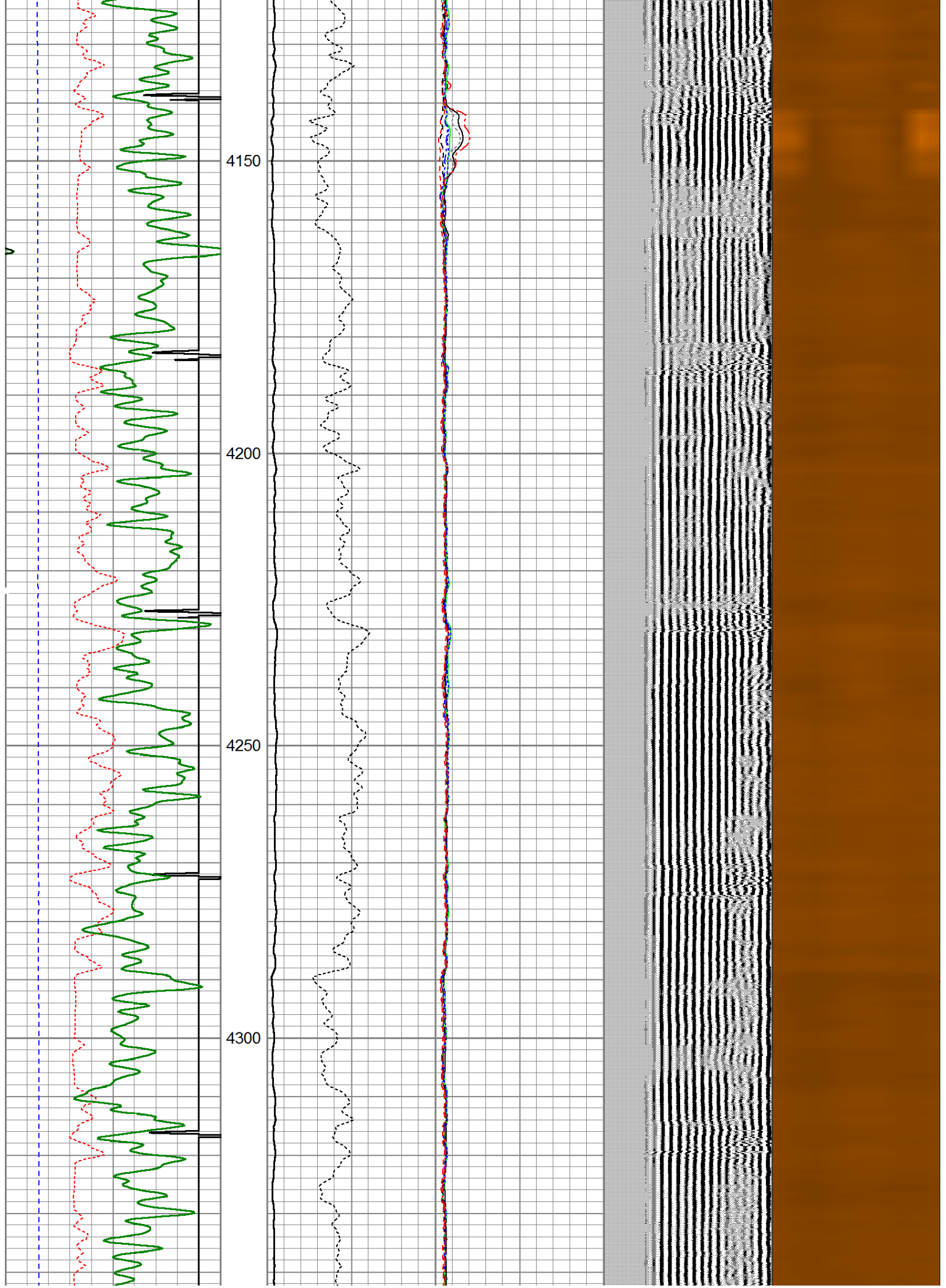


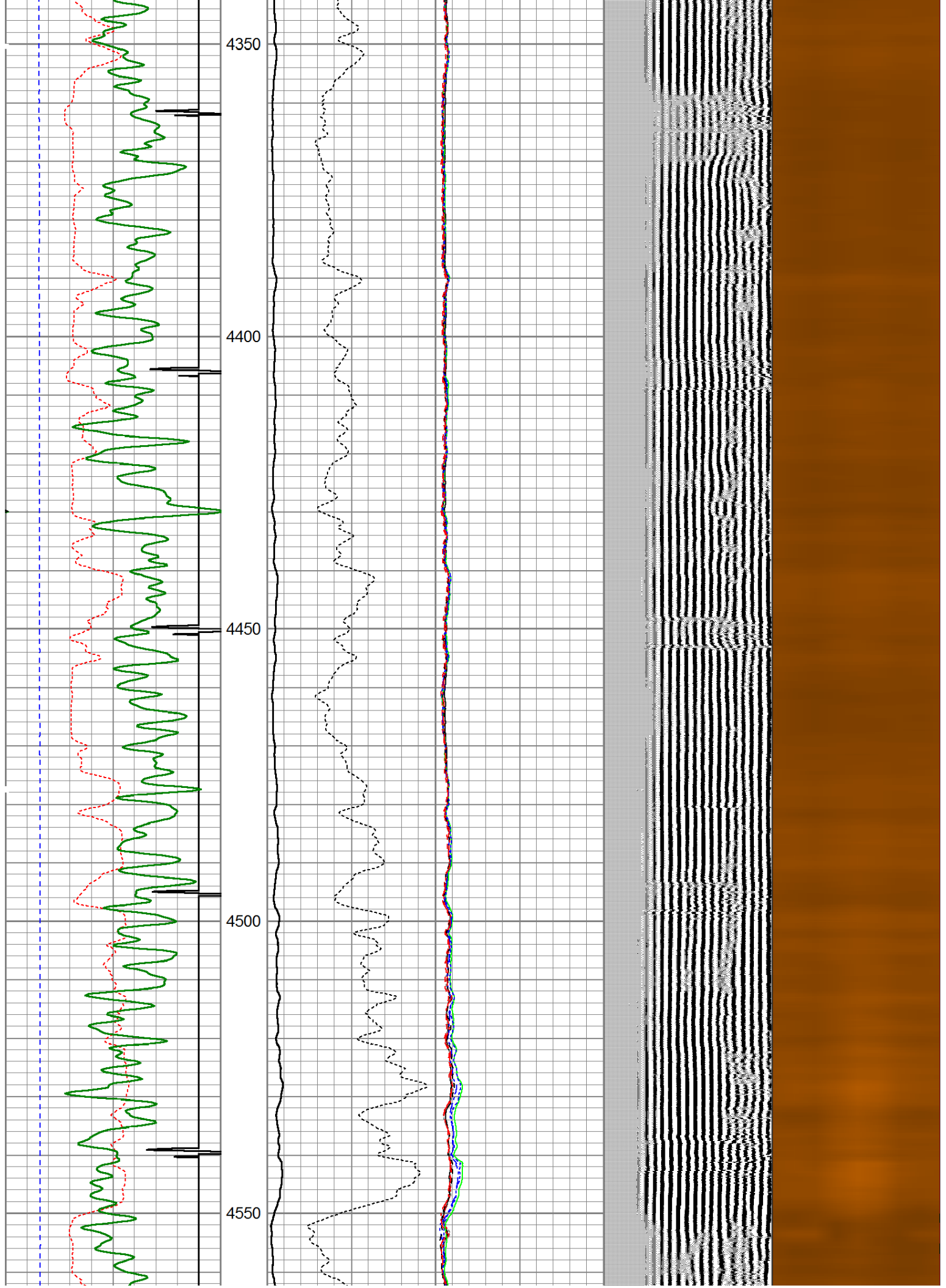


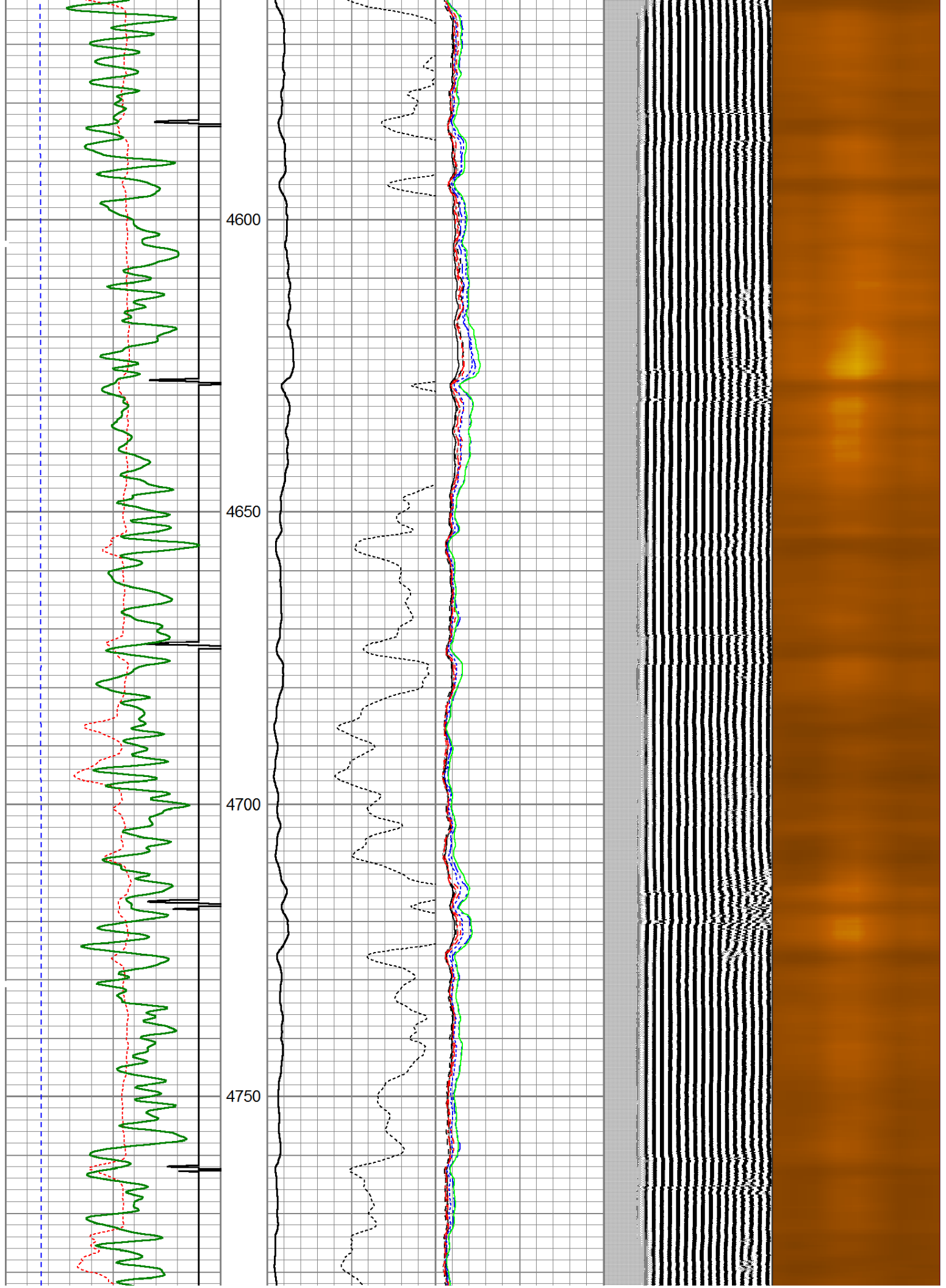


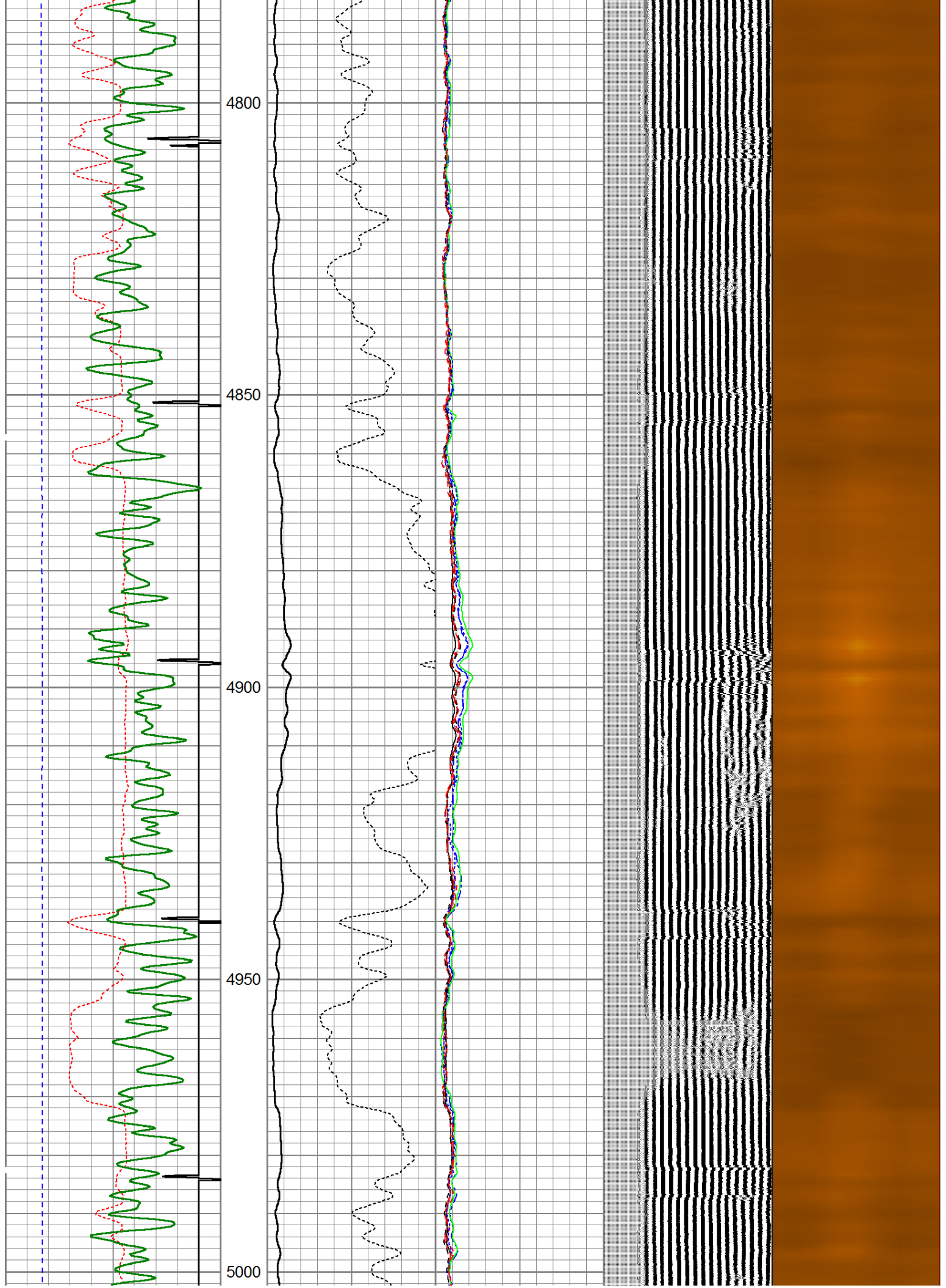


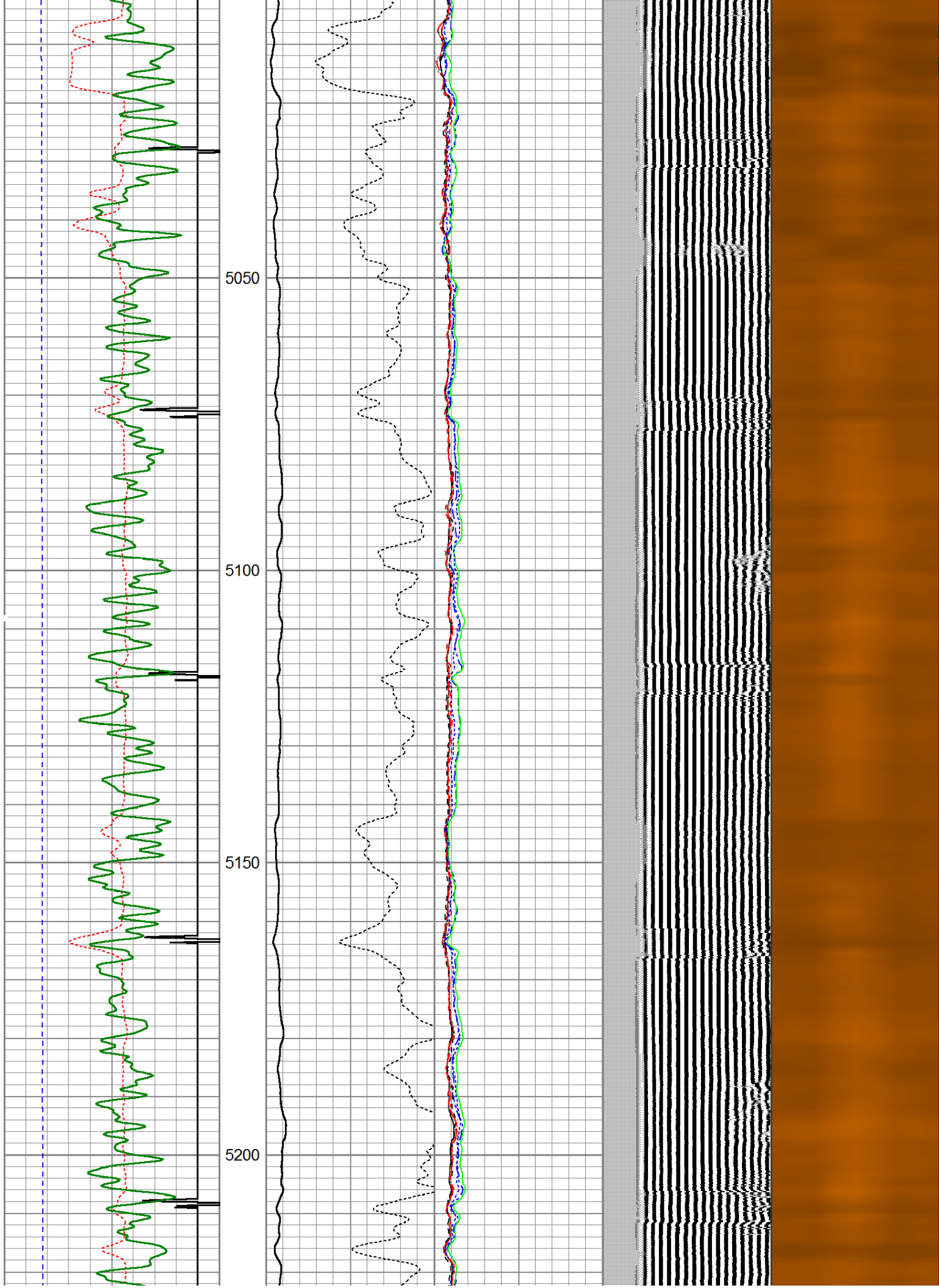


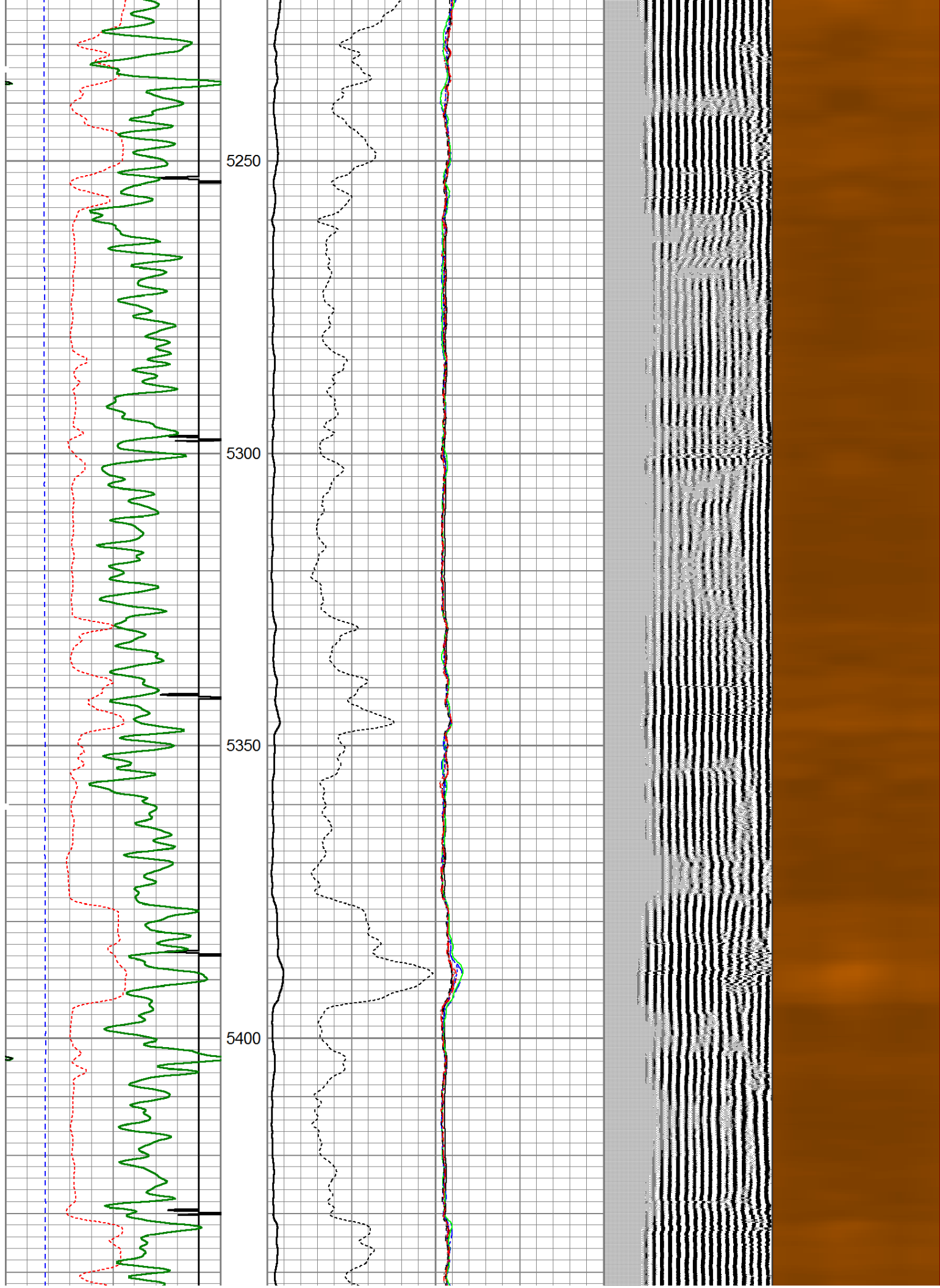


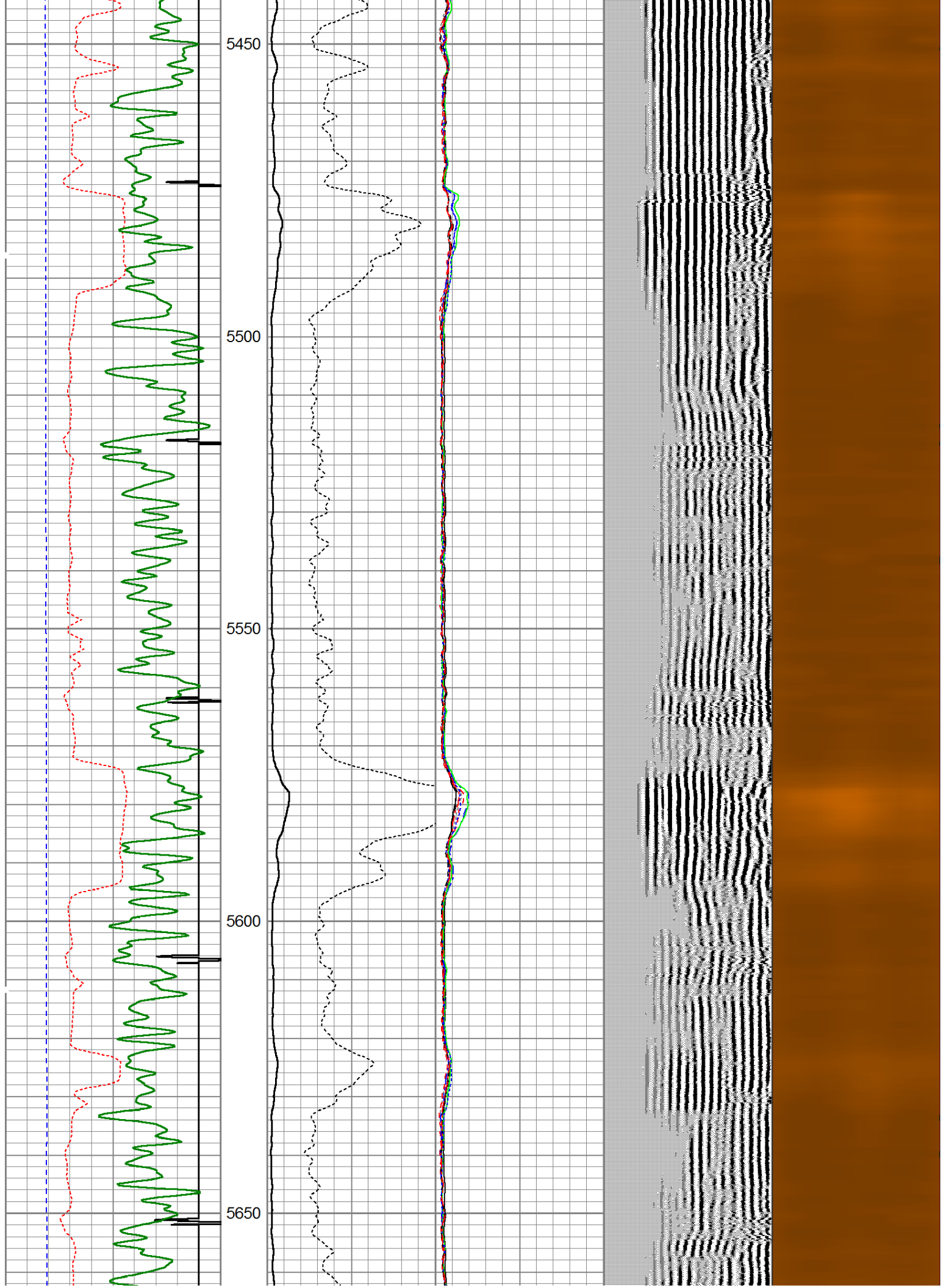


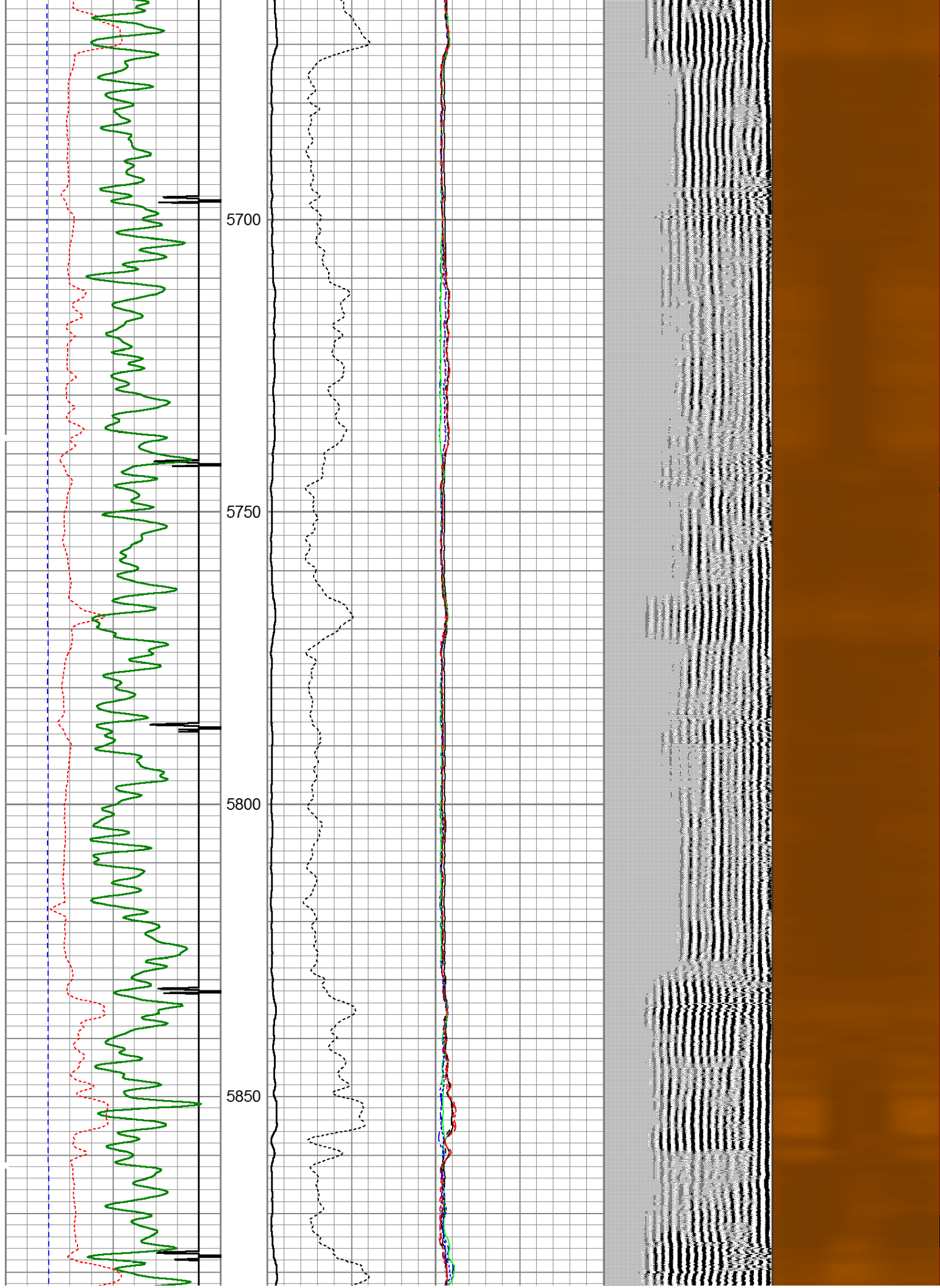


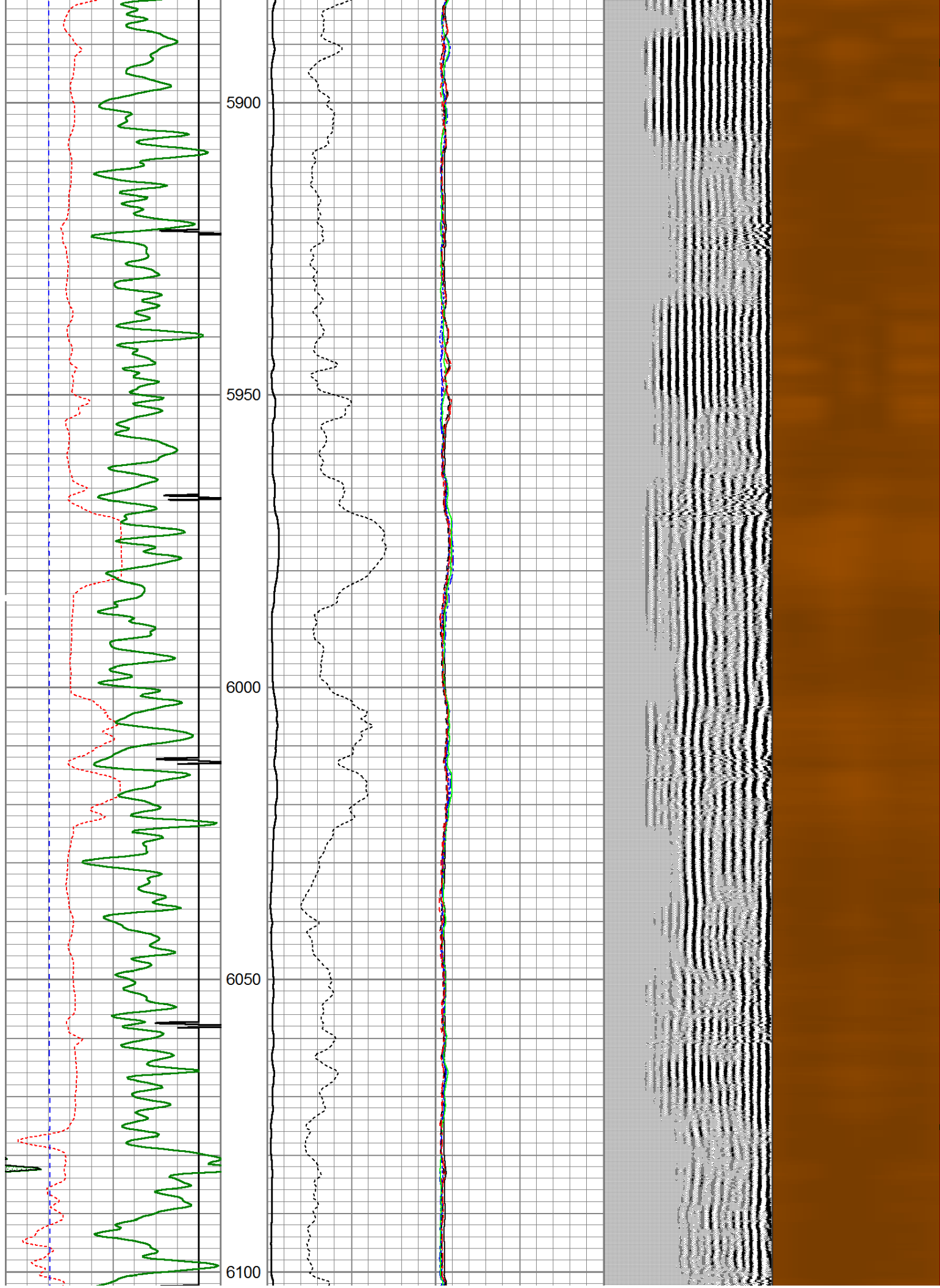


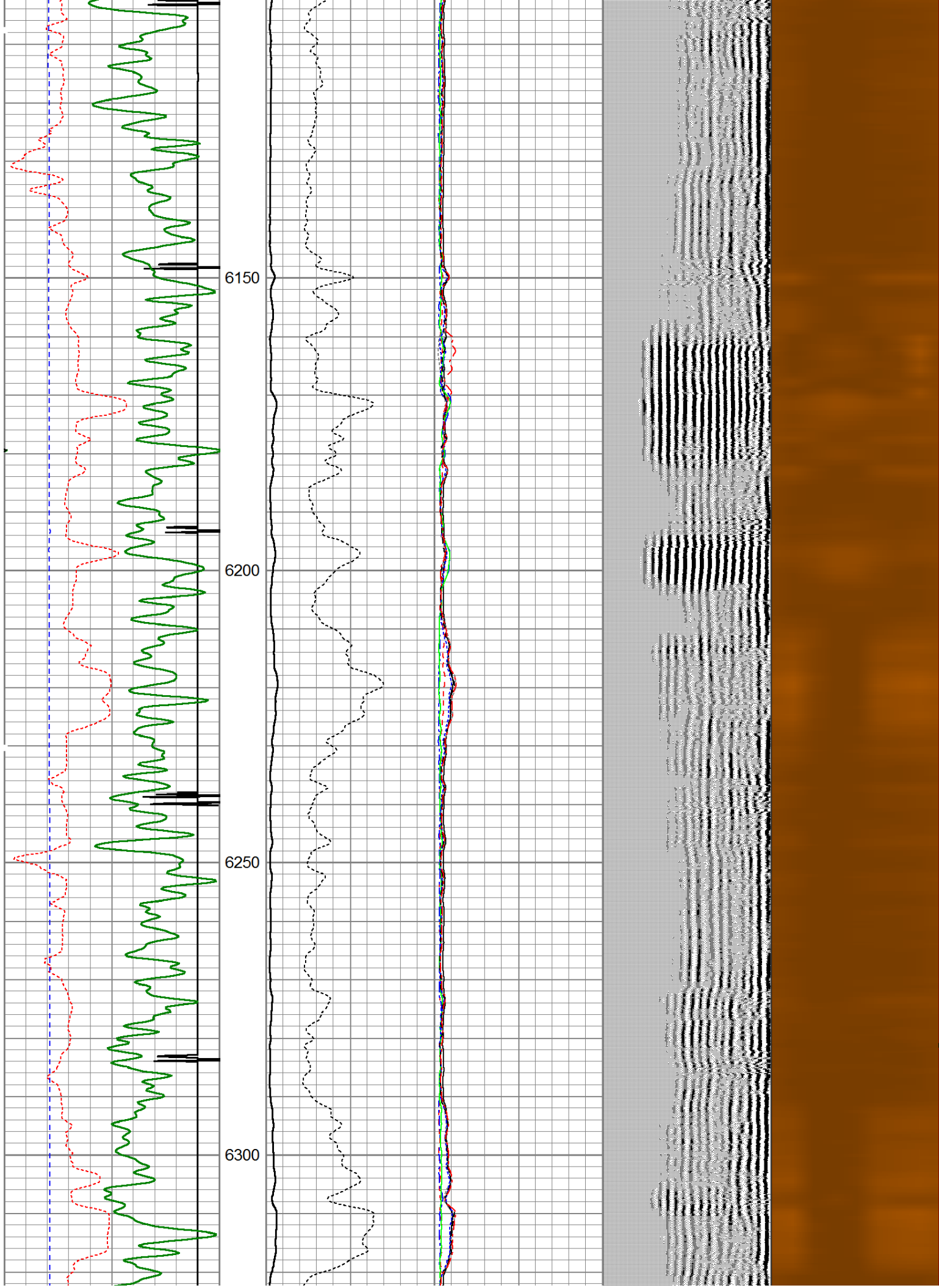


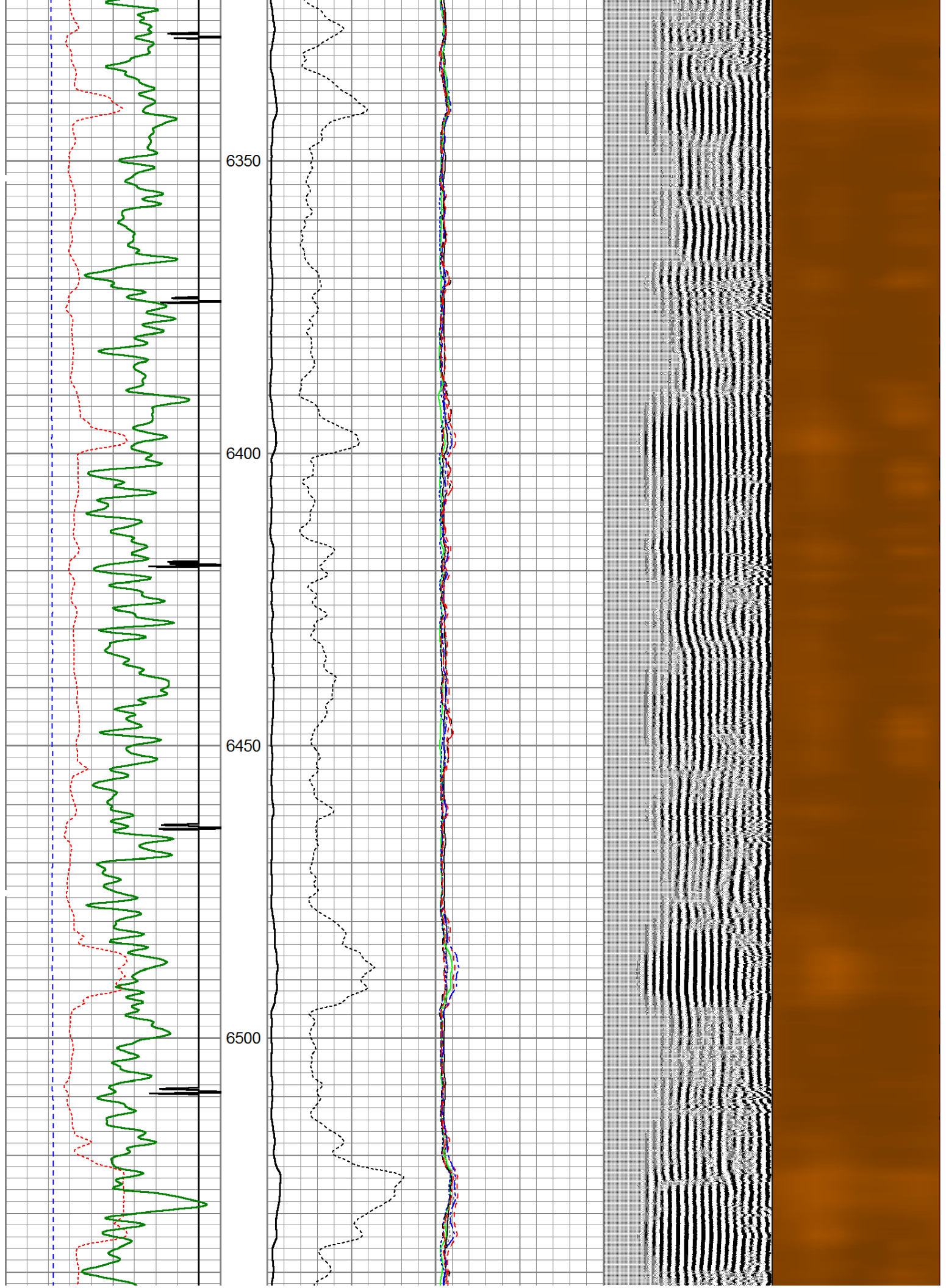


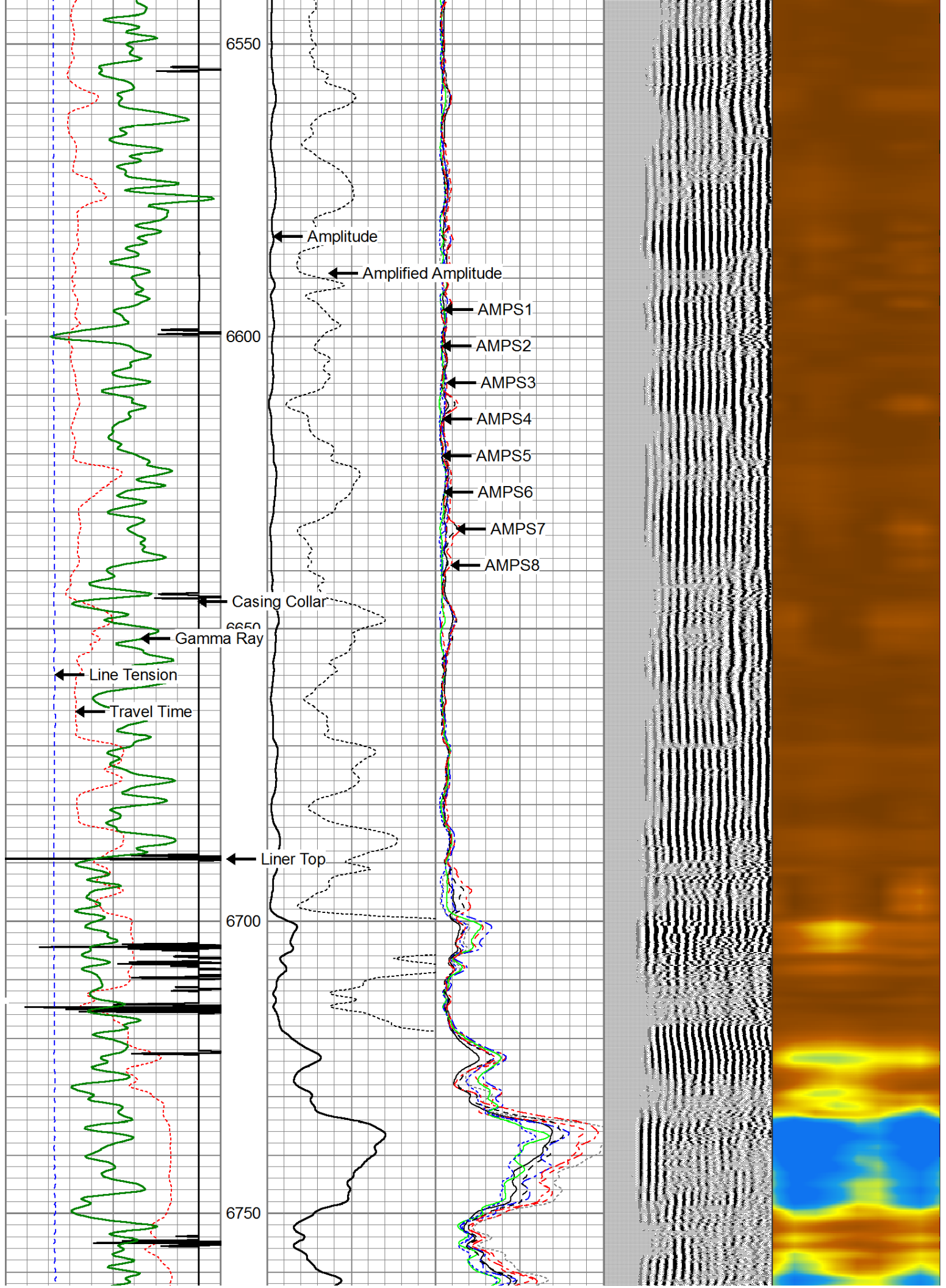


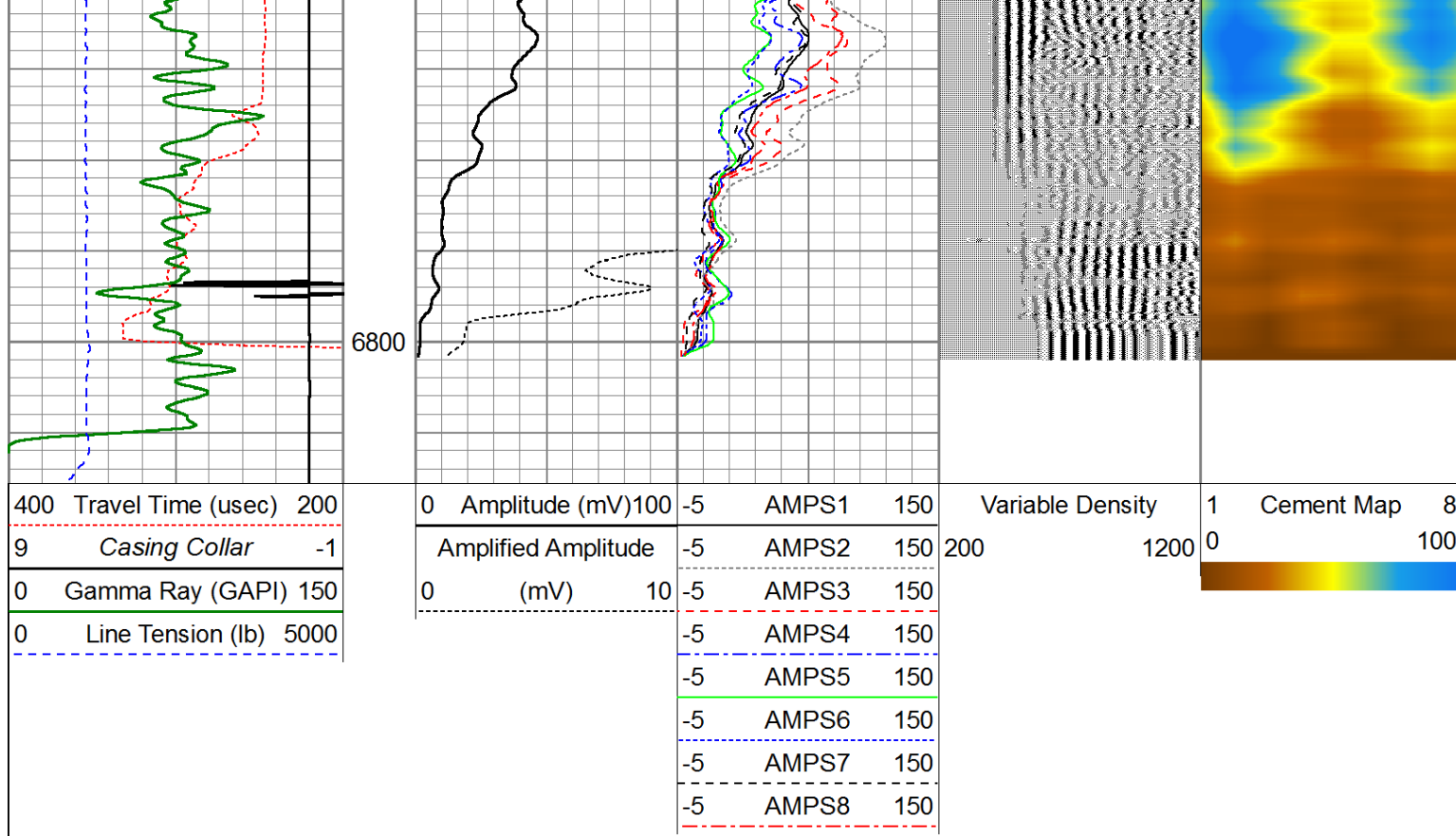






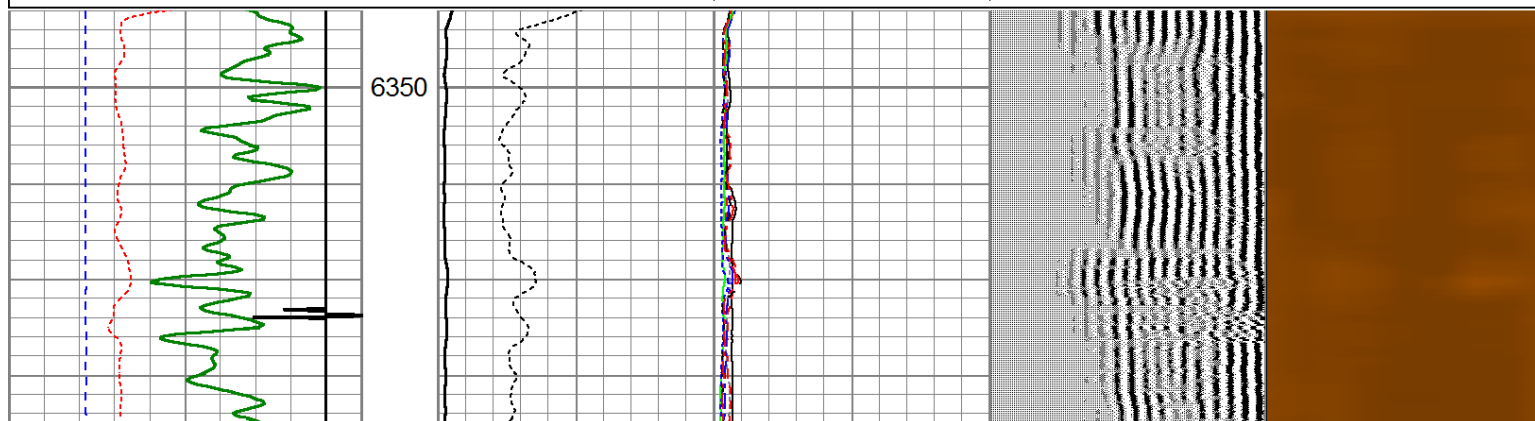
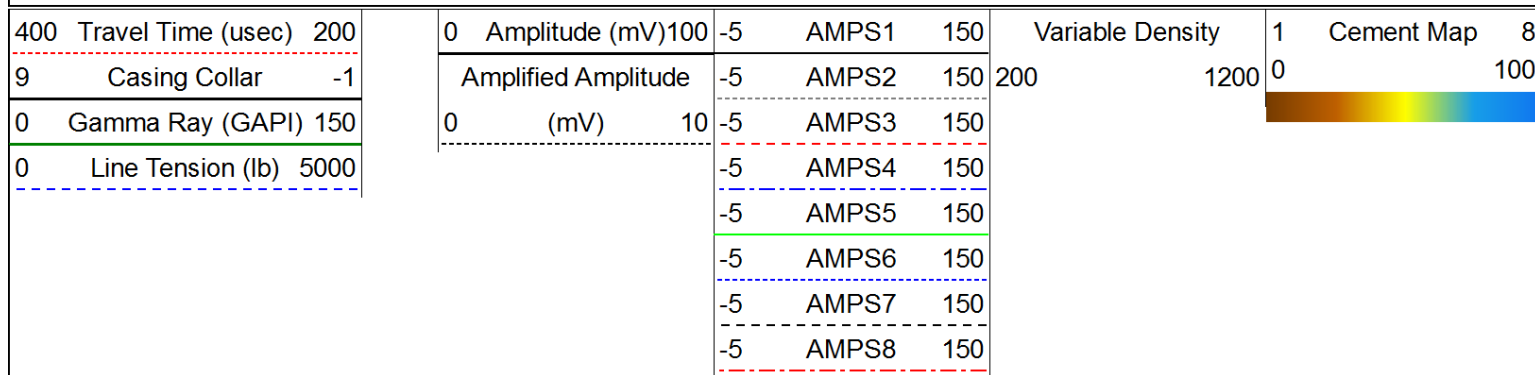


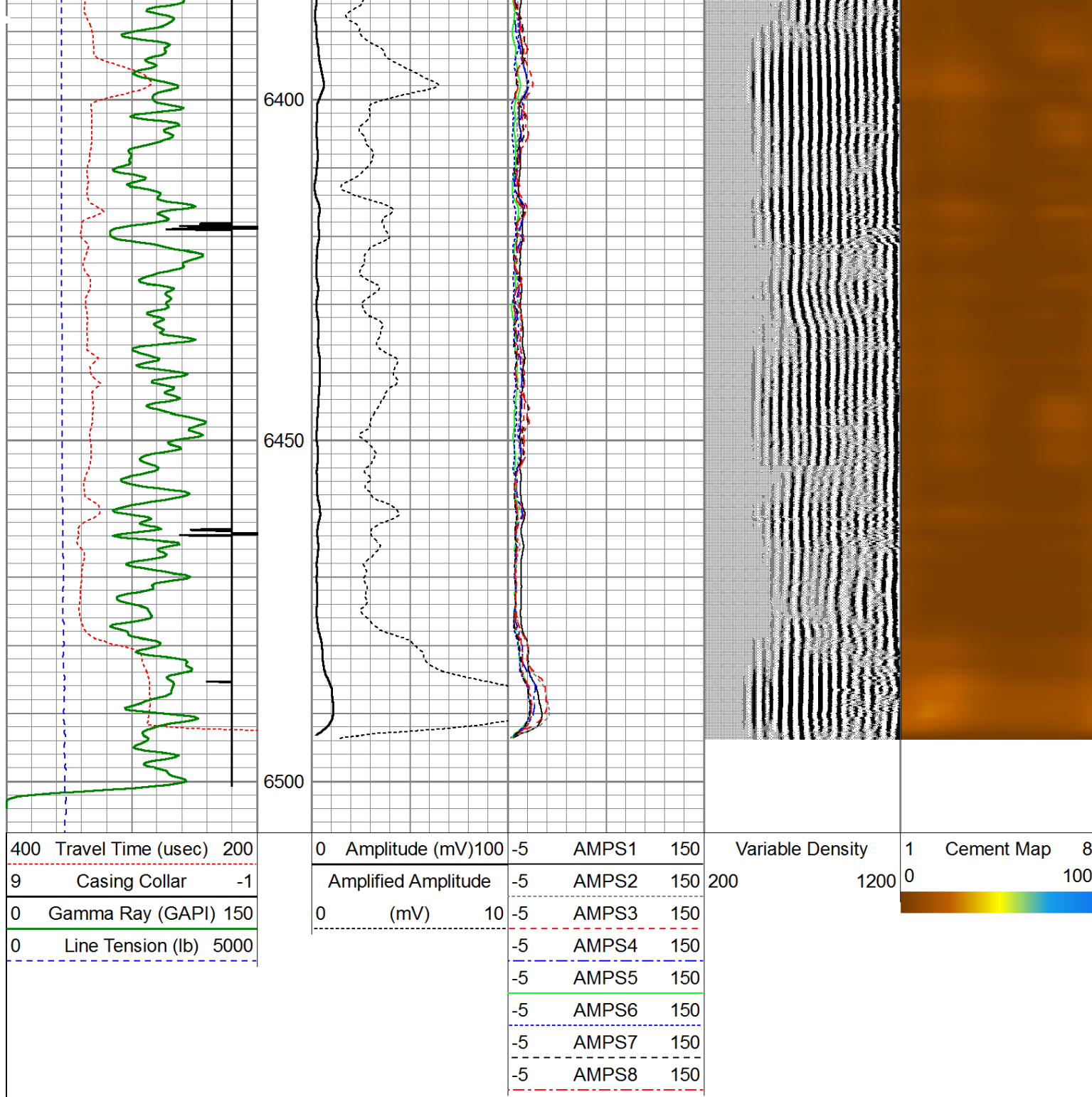




REPEAT PASS (0 PSI)

Database File: c:\warrior\data\bayswater\matrix o-29hn\bayswater_matrix_o-29hn_cbl.db
 Dataset Pathname: pass2
 Presentation Format: scbl03
 Dataset Creation: Tue Mar 24 14:58:29 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240





Calibration Report		
Database File:	C:\Warrior\Data\Bayswater\MATRIX O-29HN\bayswater_matrix_O-29HN_cbl.db	
Dataset Pathname:	pass4	
Dataset Creation:	Tue Mar 24 15:05:21 2015 by Log 7.0 B1	
Gamma Ray Calibration Report		
Serial Number:	FW1408-35	
Tool Model:	Probe275	
Performed:	Fri Mar 20 07:45:03 2015	
Calibrator Value:	1022.0	GAPI
Background Reading:	109.6	cps
Calibrator Reading:	1299.5	cps
Count Rate:	0.0500	CADU

Sensitivity:

0.8589

GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1408-26
 Tool Model: RBTC3
 Calibration Casing Diameter: 7.000 in
 Calibration Depth: 267.367 ft

Master Calibration, performed Tue Mar 24 12:59:30 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.010	0.750	2.000	62.165	81.276	1.183
CAL	0.014	1.005				
5'	0.013	0.934	2.000	62.165	65.313	1.184
SUM						
S1	0.012	0.772	0.000	100.000	115.000	-1.558
S2	0.012	0.728	0.000	100.000	139.688	-1.656
S3	0.016	0.722	0.000	100.000	141.671	-2.267
S4	0.017	0.743	0.000	100.000	137.910	-2.412
S5	0.015	0.783	0.000	100.000	130.241	-1.916
S6	0.011	0.819	0.000	100.000	123.793	-1.375
S7	0.007	0.799	0.000	100.000	126.355	-0.912
S8	0.007	0.764	0.000	100.000	132.023	-0.925

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.014	1.005	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

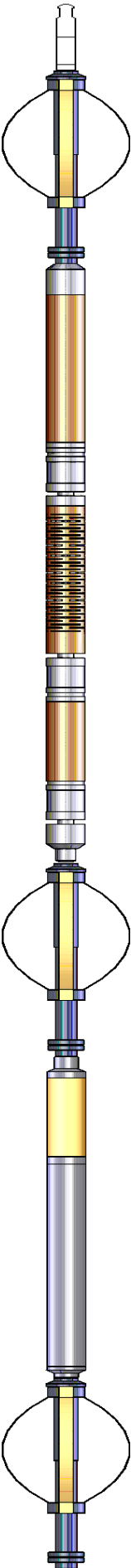
Temperature Calibration Report

Serial Number: FW1408-26
 Tool Model: RBTC3
 Performed: Sun Jun 13 13:33:21 1993

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps

Gain: 1.00

Offset: 0.00
Delta Spacing 1

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan Cable_head	1.00	1.44	10.00
			Probe275 2.75" Centralizer	2.88	2.75	20.00
			RBT-RBTC3 (FW1408-26) Probe Corrosion RCBL	8.92	2.75	90.00
WVF3FT	14.74					
WVFCAL	14.74					
WVFS1	14.74					
WVFS2	14.74					
WVFS3	14.74					
WVFS4	14.74					
WVFS5	14.74					
WVFS6	14.74					
WVFS7	14.74					
WVFS8	14.74					
WVF5FT	13.74					
TEMP	11.12					
			Probe275 2.75" Centralizer	2.88	2.75	20.00
CCL	6.71					
GR	5.38		GR-Probe275 (FW1408-35) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
			PTS275	2.83	2.75	

Dataset:	bayswater_matrix_O-29HN_cbl.db: field/well/run1/pass4
Total Length:	23.28 ft
Total Weight:	197.00 lb
O.D.	2.75 in



Company	BAYSWATER EXPLORATION & PRODU
Well	MATRIX O-29HN
Field	WATTENBERG
County	WELD
State	COLORADO