



**RADIAL CEMENT BOND LOG**  
**VARIABLE DENSITY**  
**GAMMA RAY / CCL**

Company		BAYSWATER EXPLORATION & PRODUCTION	
Well		MATRIX P-29HC	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
Company		BAYSWATER EXPLORATION & PRODUCTION	
Well		MATRIX P-29HC	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
Location:		API # : 05123406950000	
Permanent Datum		GL	
Log Measured From		GL	
Drilling Measured From		KELLY BUSHING	
SEC 29		TWP 6N	
RGE 65W		Elevation 4708'	
Other Services		NONE	
Date		24 MAR 2015	
Run Number		1	
Depth Driller		6843.91' LT	
Depth Logger		6860'	
Bottom Logged Interval		6855'	
Top Log Interval		0'	
Open Hole Size		8.75	
Type Fluid		Water	
Density / Viscosity		8.34	
Max. Recorded Temp.		N/A	
Estimated Cement Top		Surface	
Time Well Ready		13:00	
Time Logger on Bottom		13:30	
Equipment Number		13034	
location		Brighton CO	
Recorded By		Jon Ostler	
Witnessed By		Jack Bruner	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		7"	
Prod. String		4.5"	
Production String		6844'	
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

Primary Log on Well

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

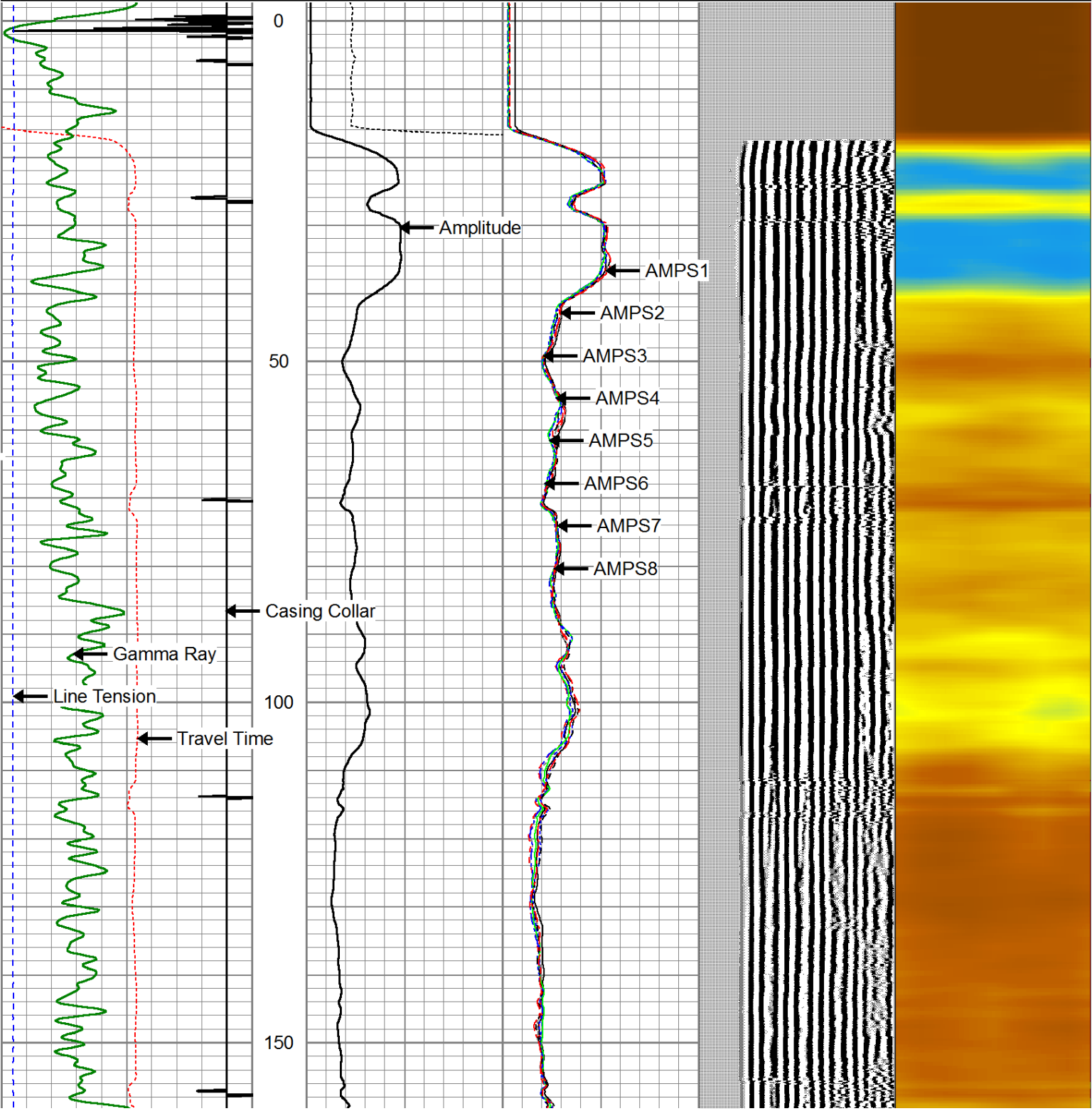
Thank you for using Allied Horizontal Wireline Service  
(303) 659-4609

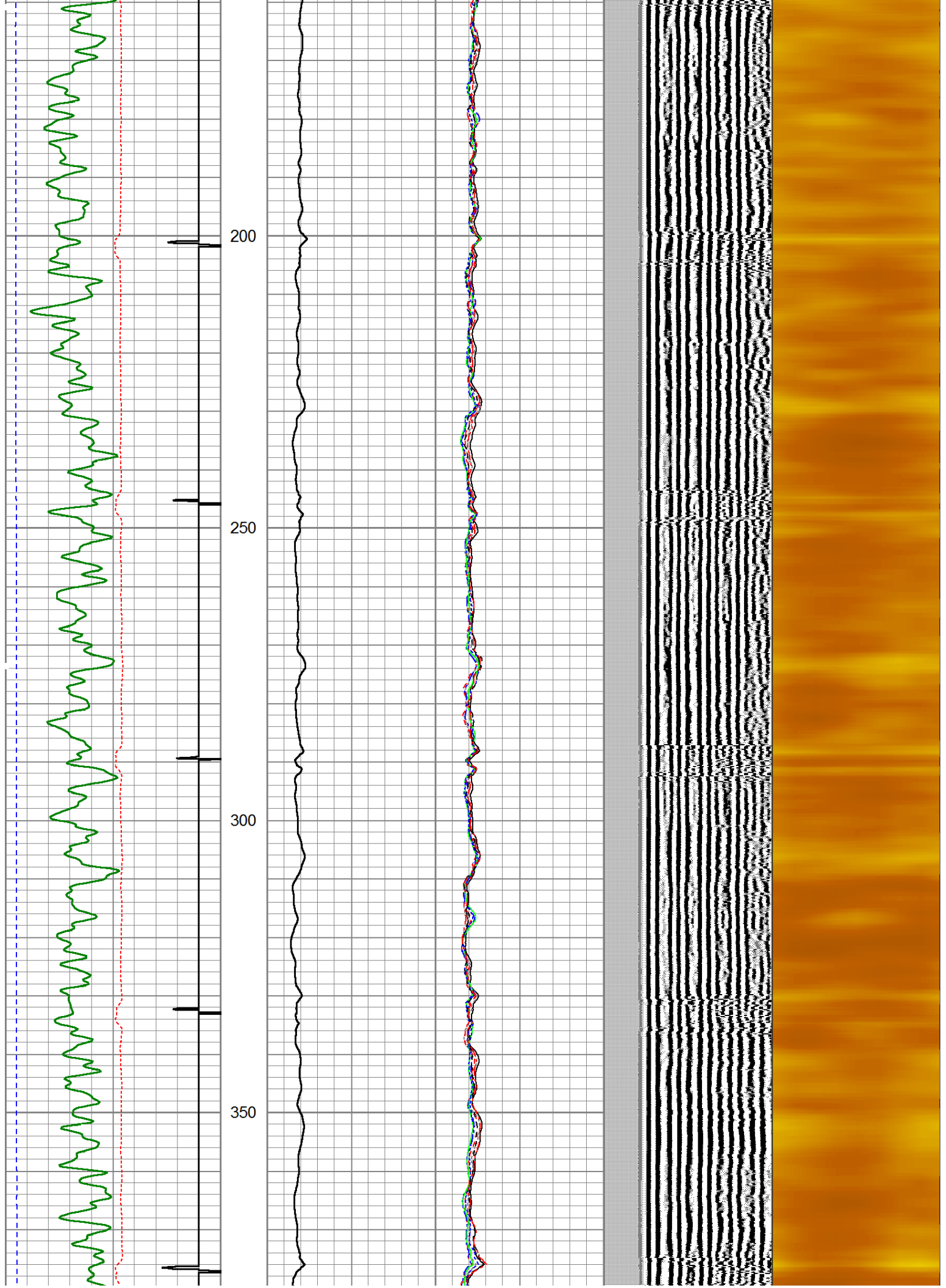
Database File: bayswater\_matrix\_p-29hc\_cbl.db  
Dataset Pathname: pass6.5  
Presentation Format: scbl03  
Dataset Creation: Tue Mar 24 14:48:57 2015 by Calc 7.0 B1  
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
0	Line Tension (lb)	5000

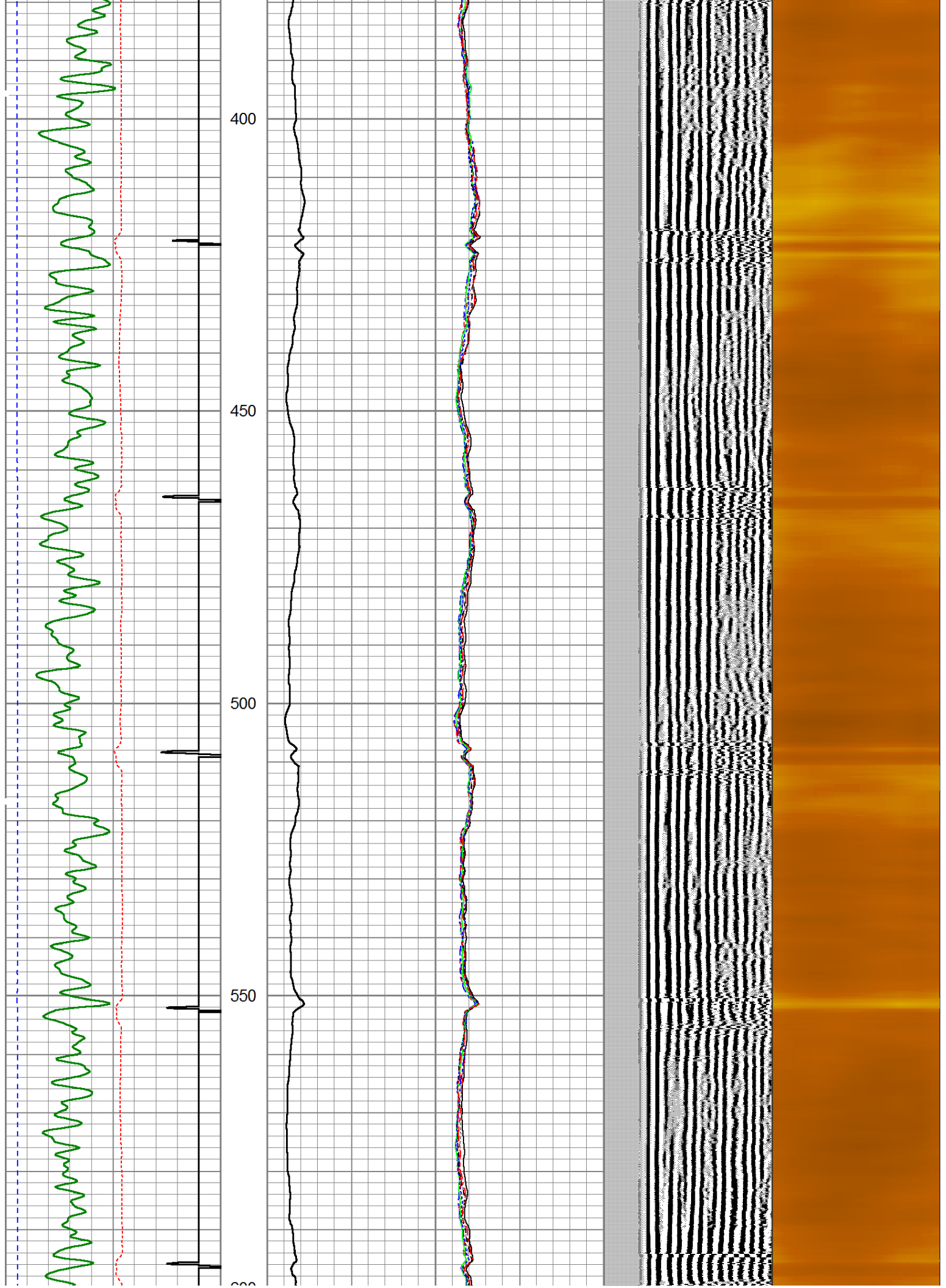
0	Amplitude (mV)	100
	Amplified Amplitude	
0	(mV)	10
-5	AMPS1	150
-5	AMPS2	150
-5	AMPS3	150
-5	AMPS4	150
-5	AMPS5	150
-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150

Variable Density		1	Cement Map	8
200	1200	0		100

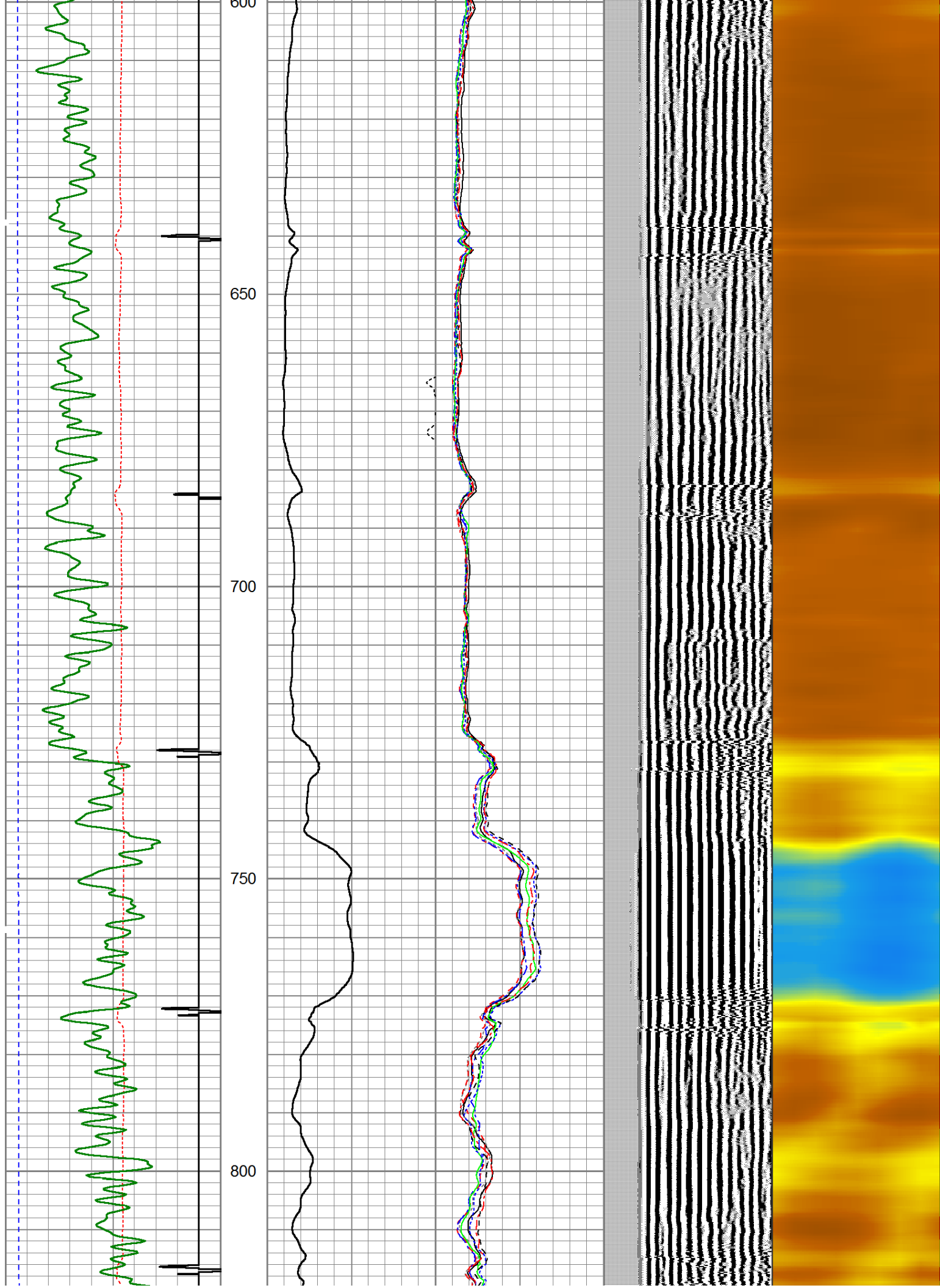


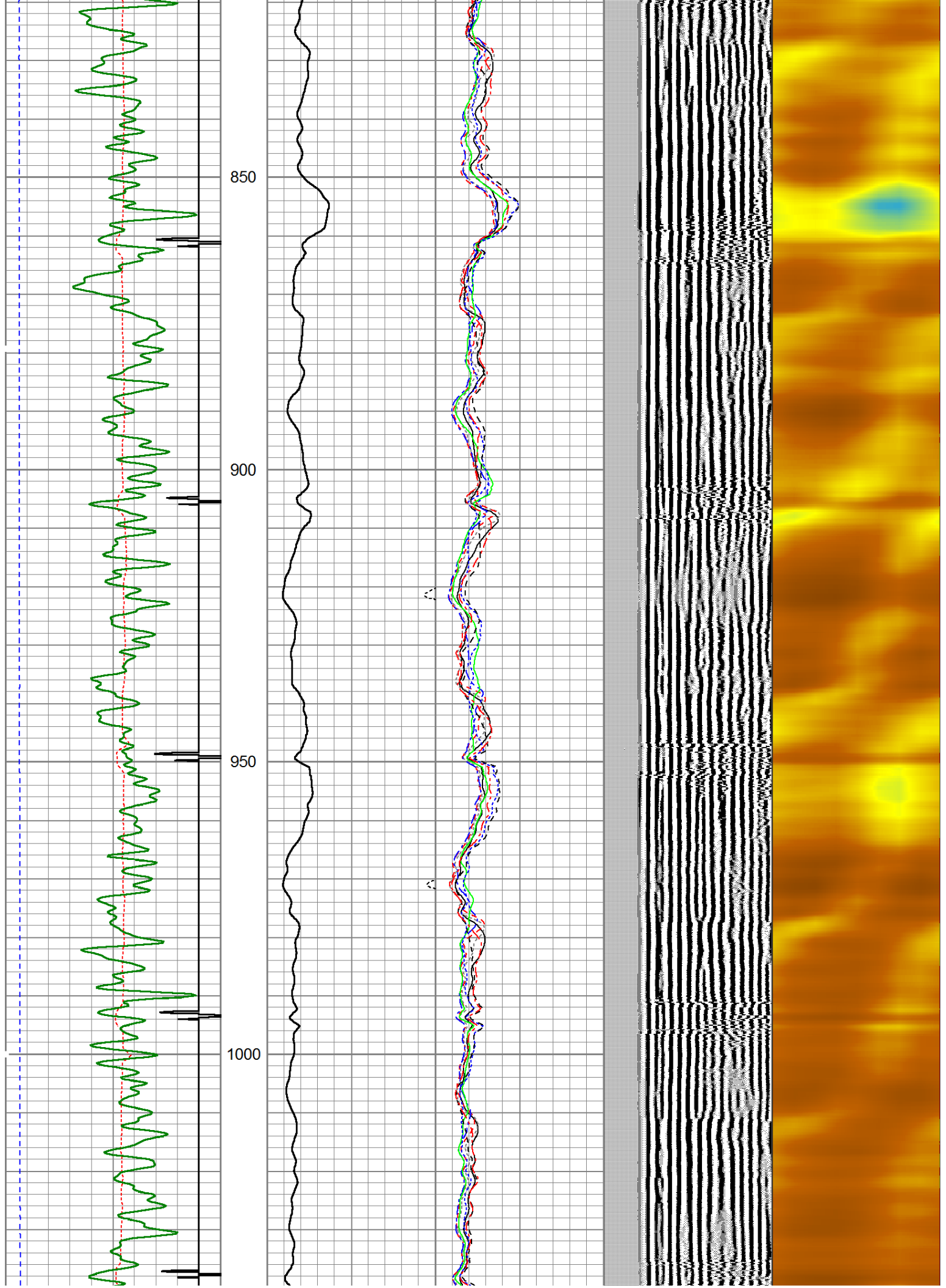


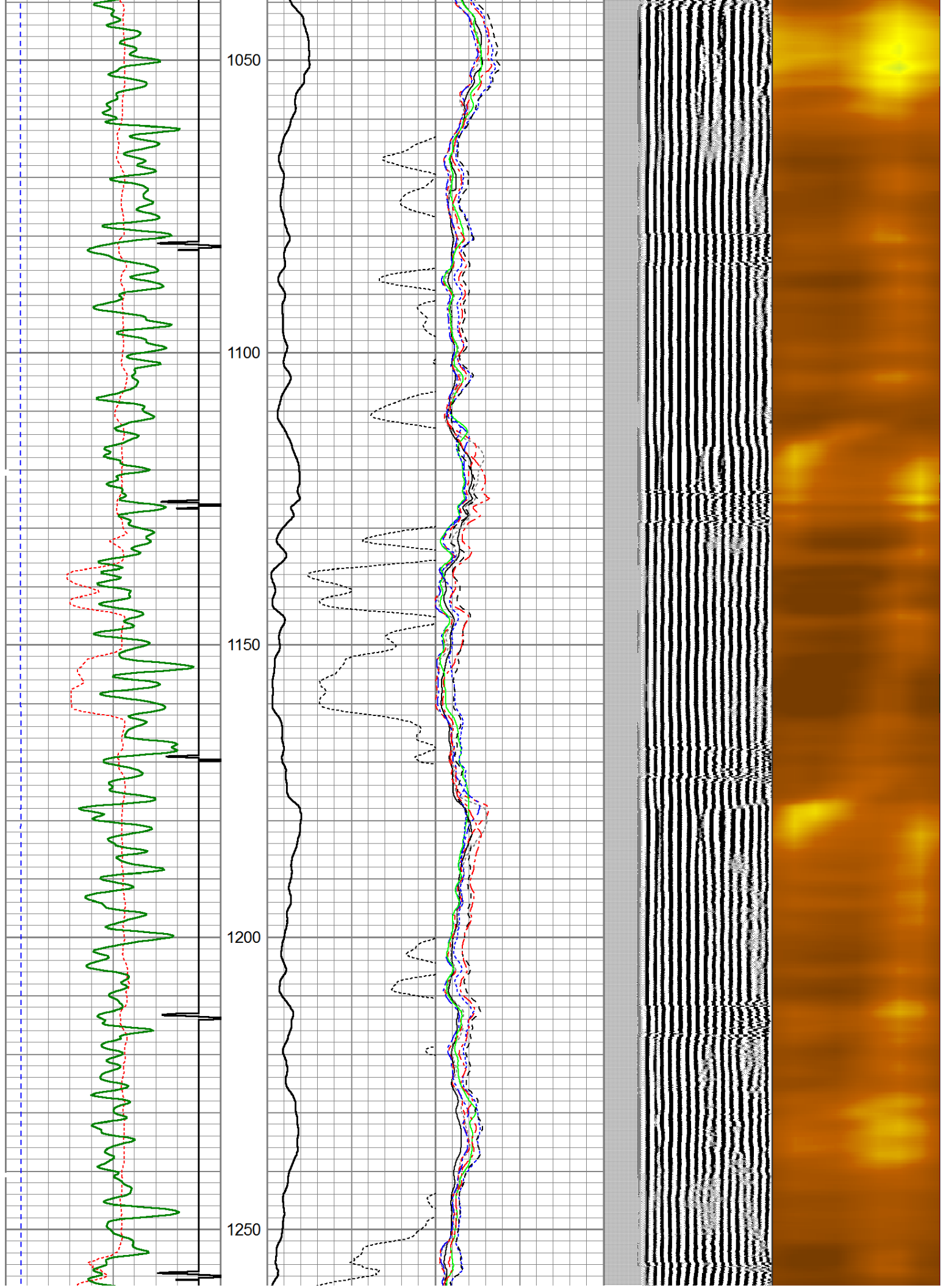




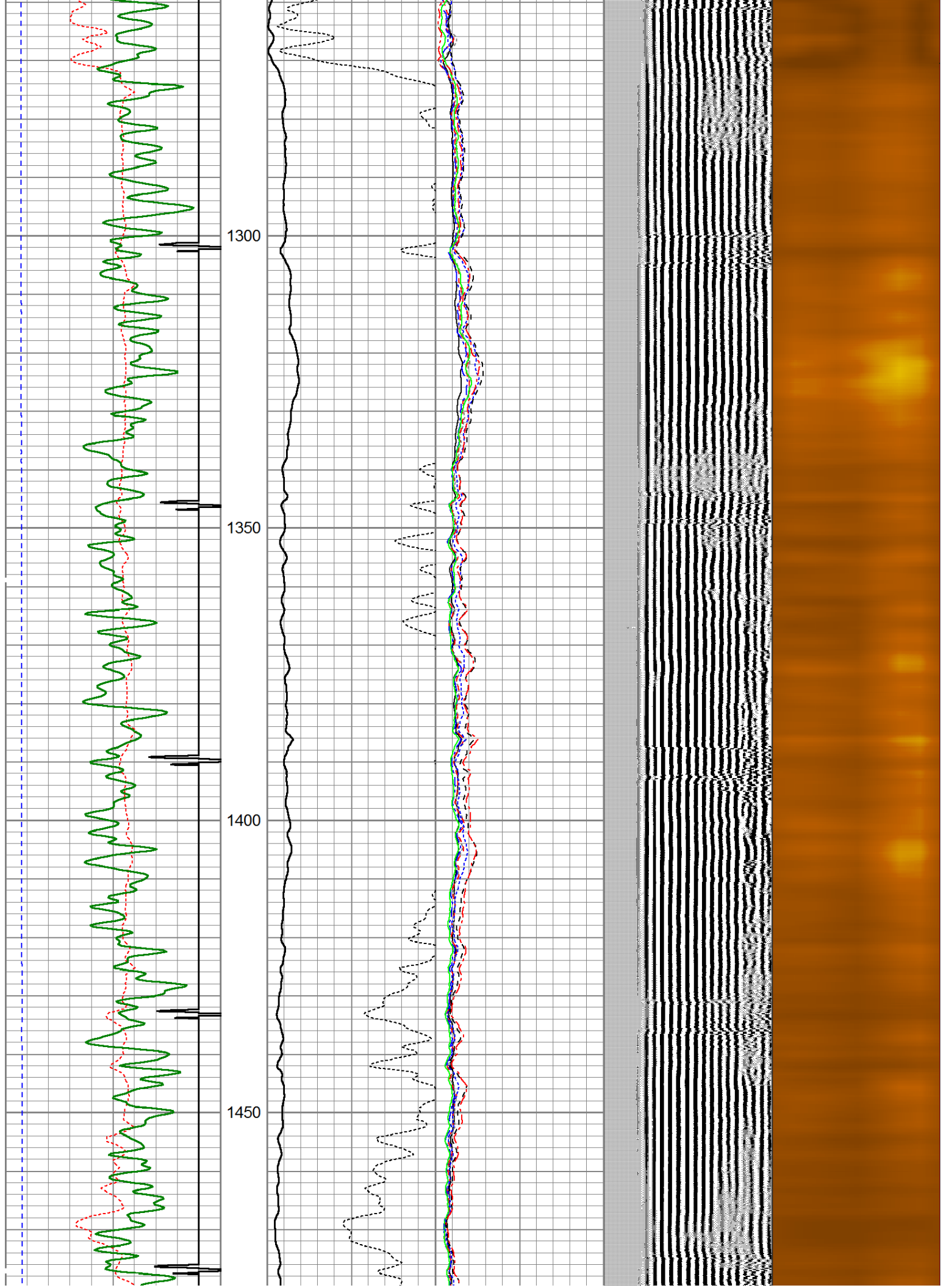


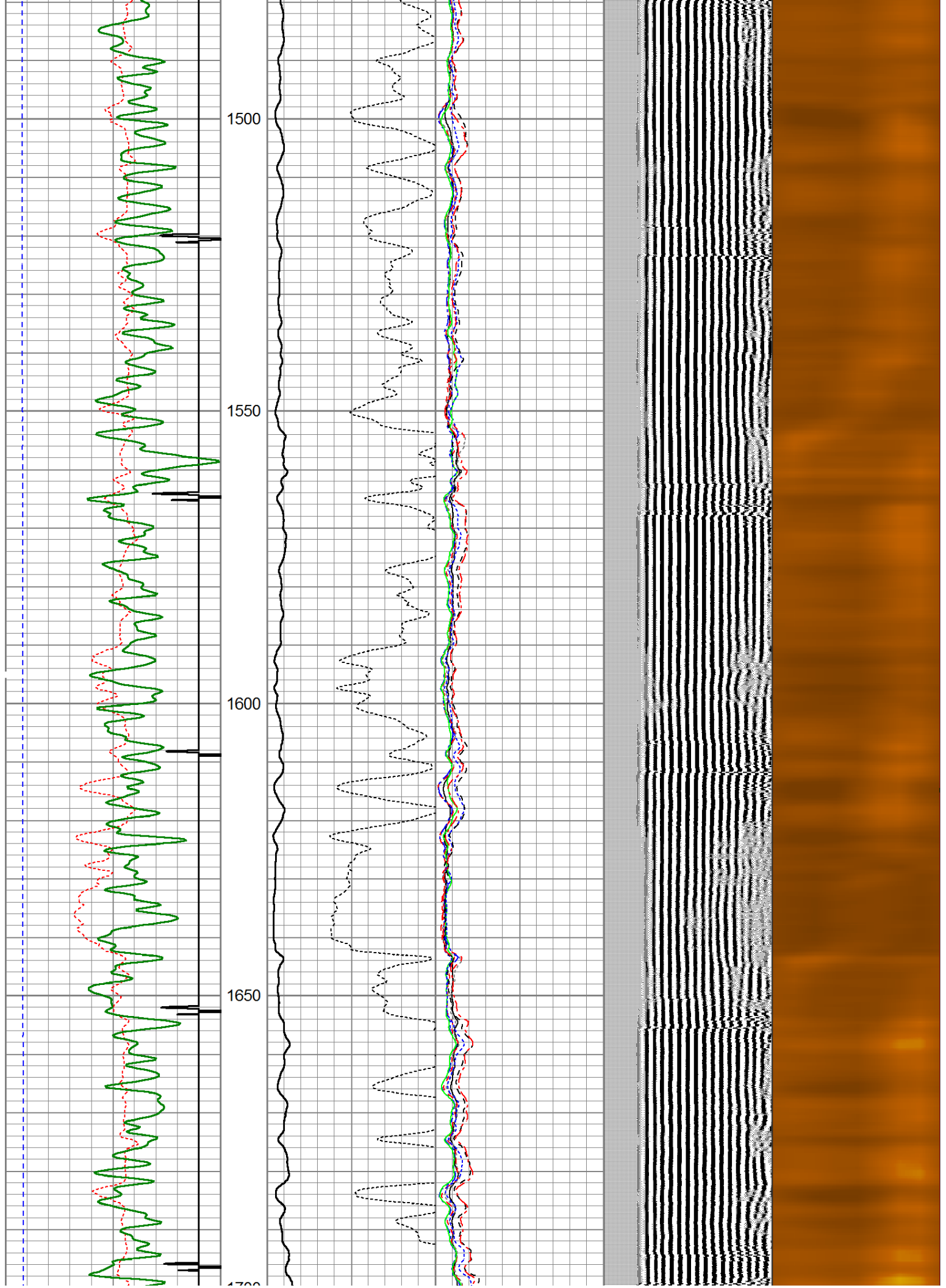


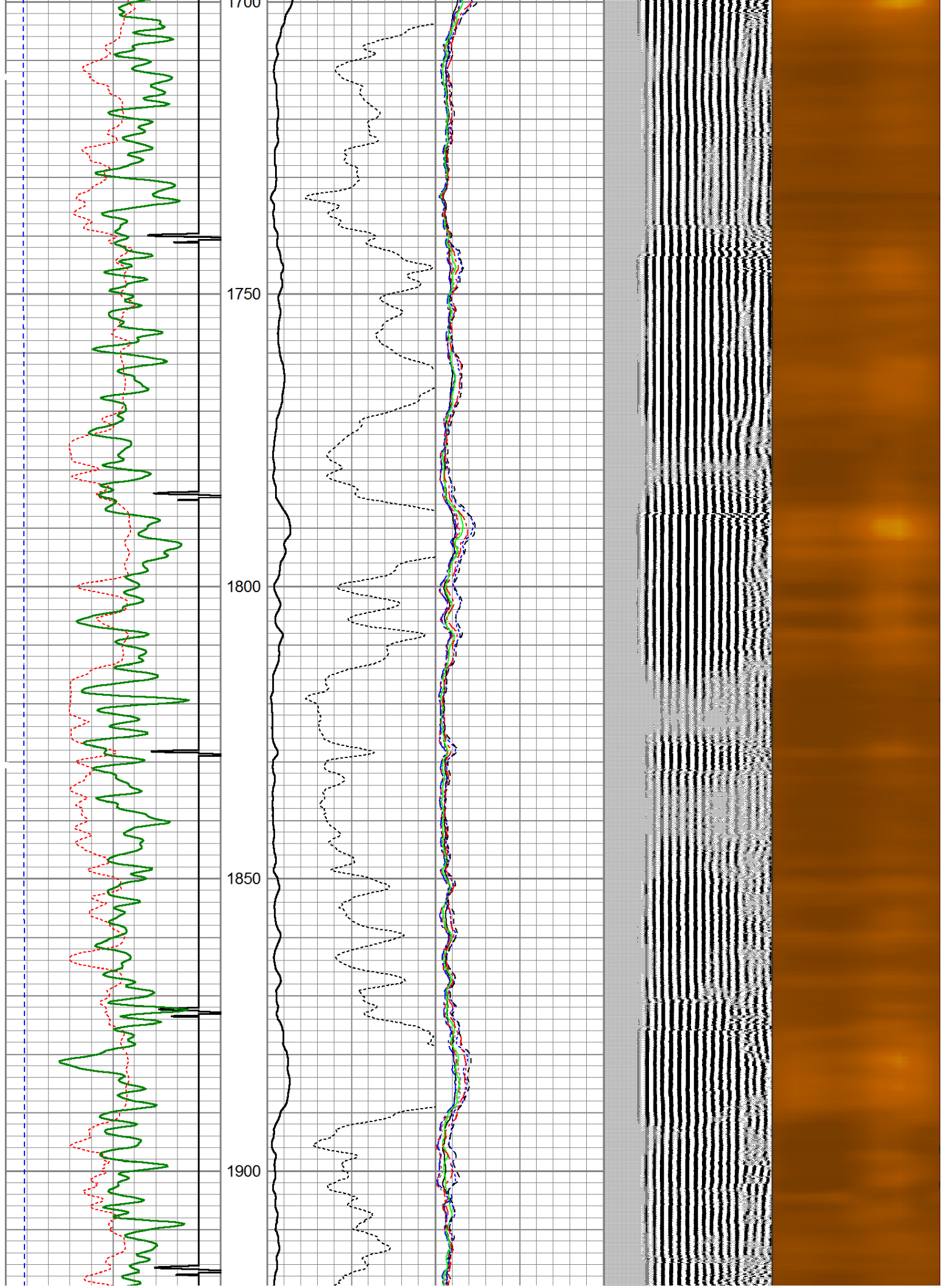




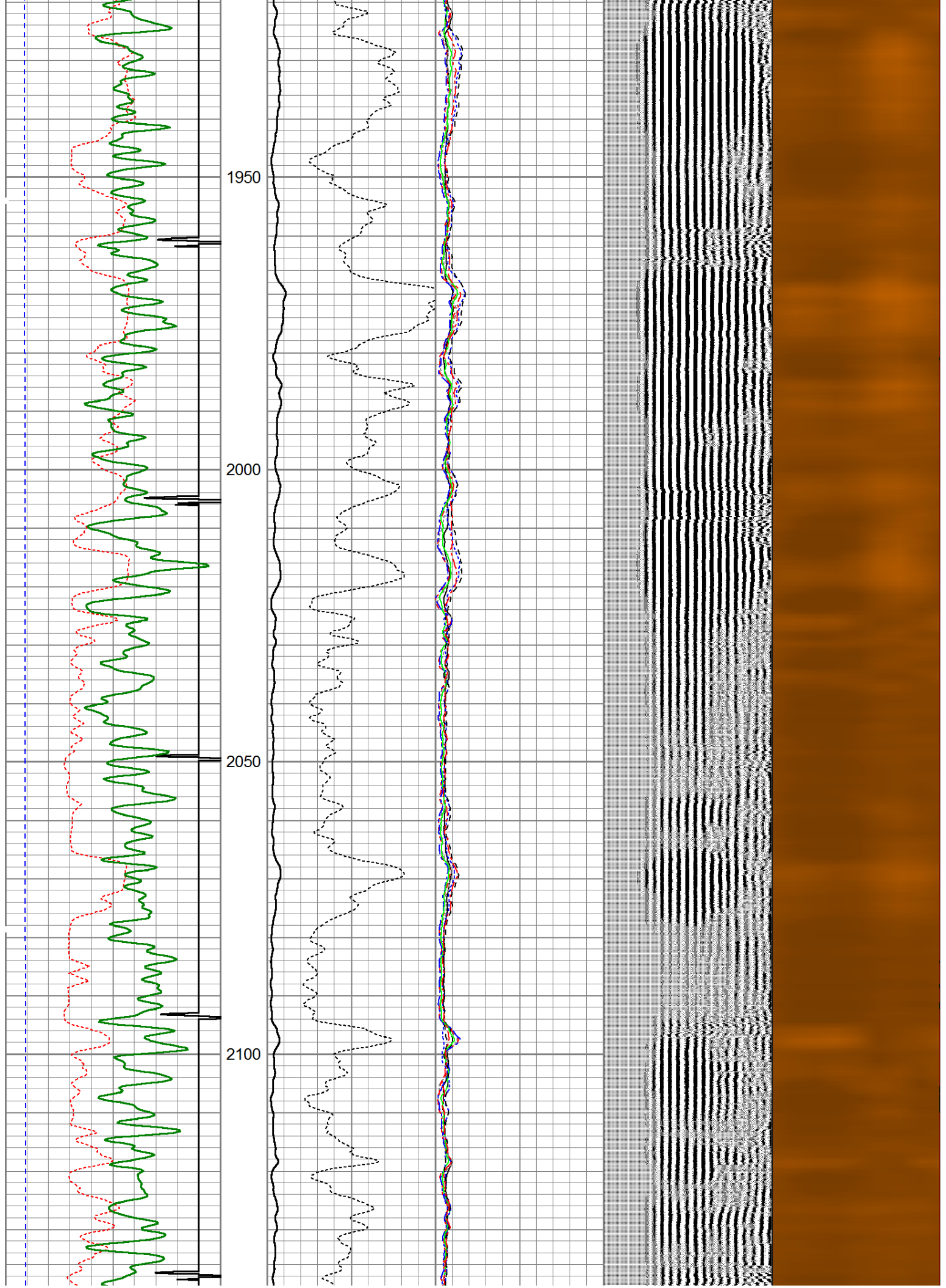


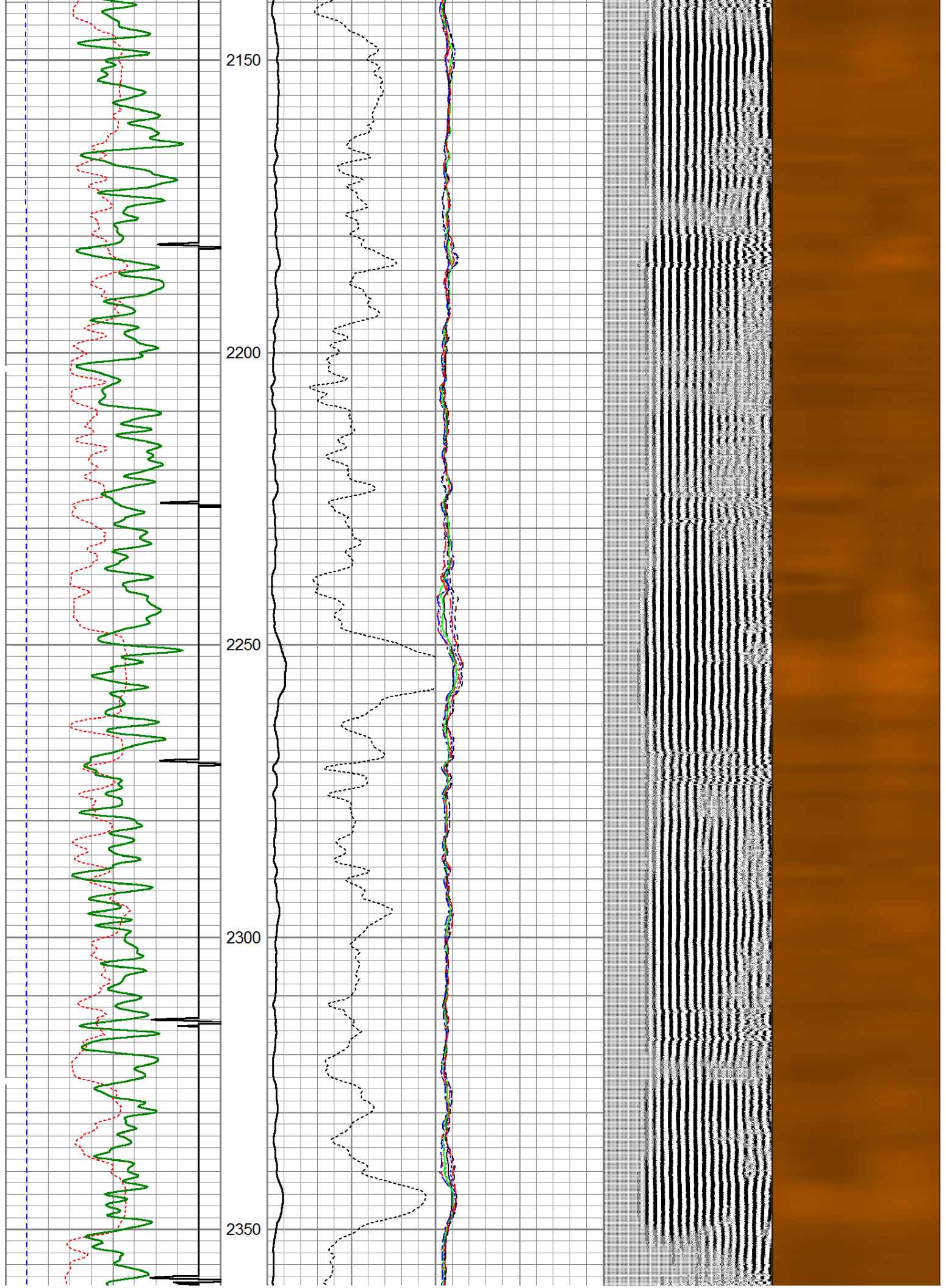




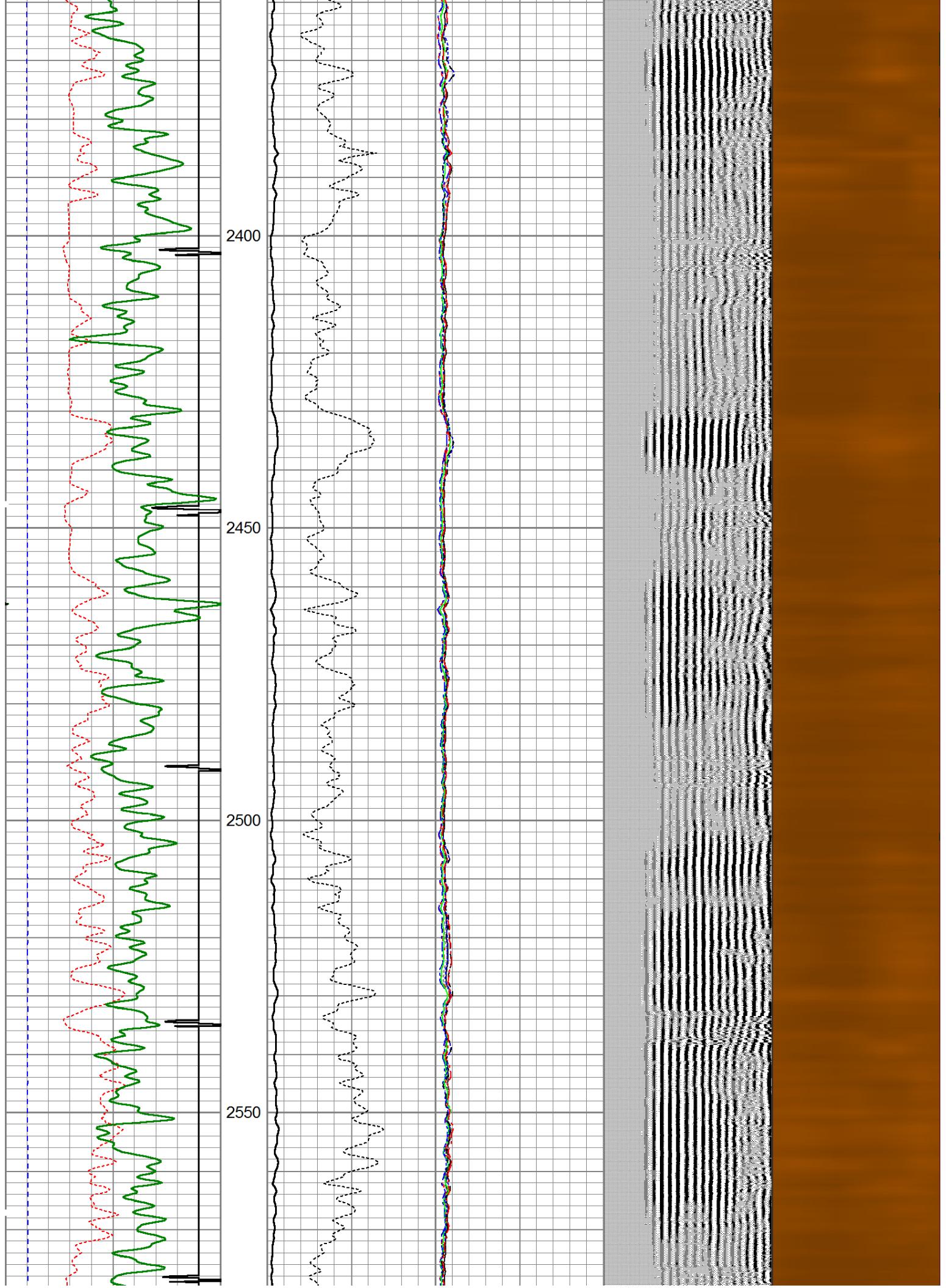




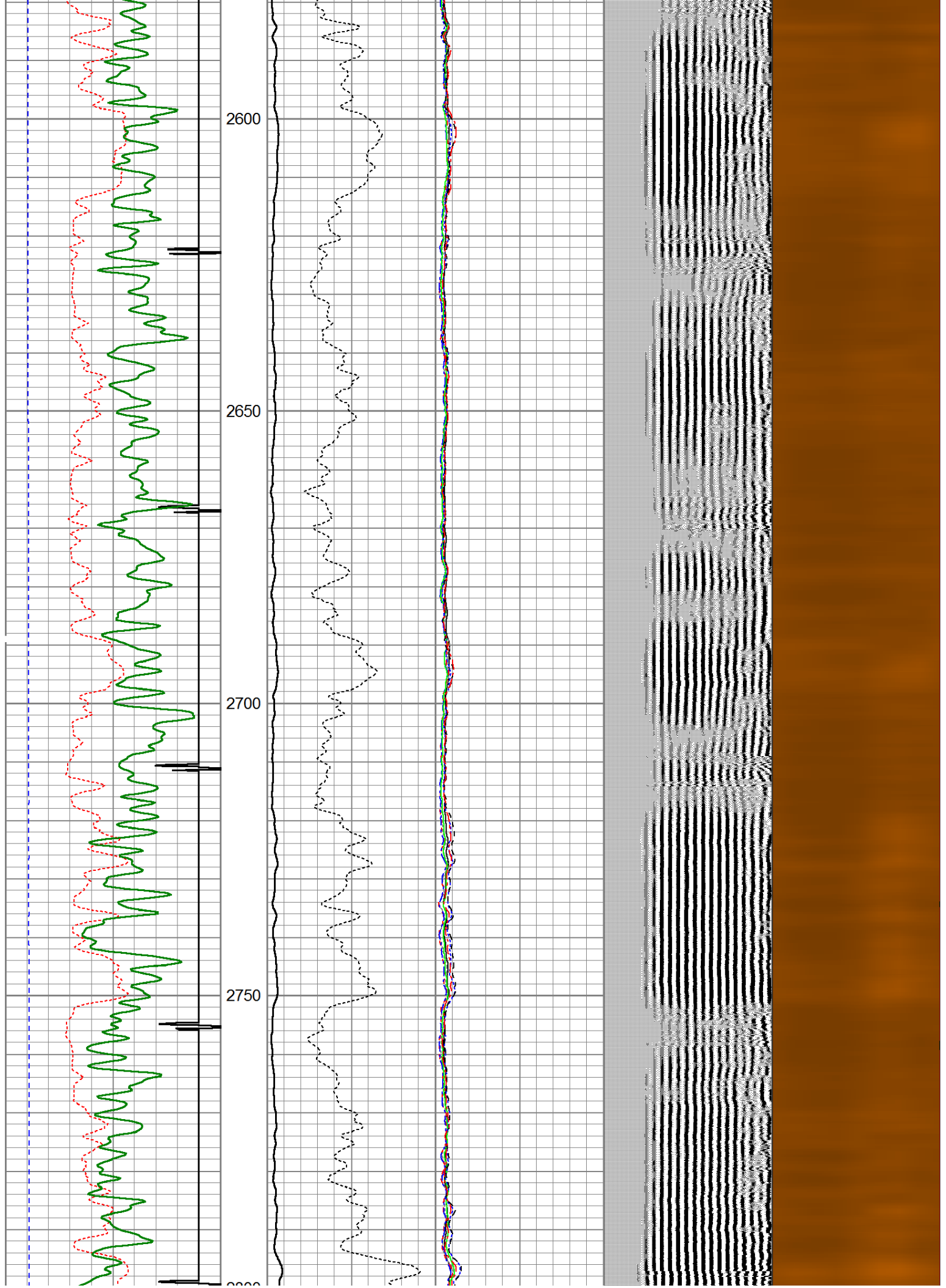


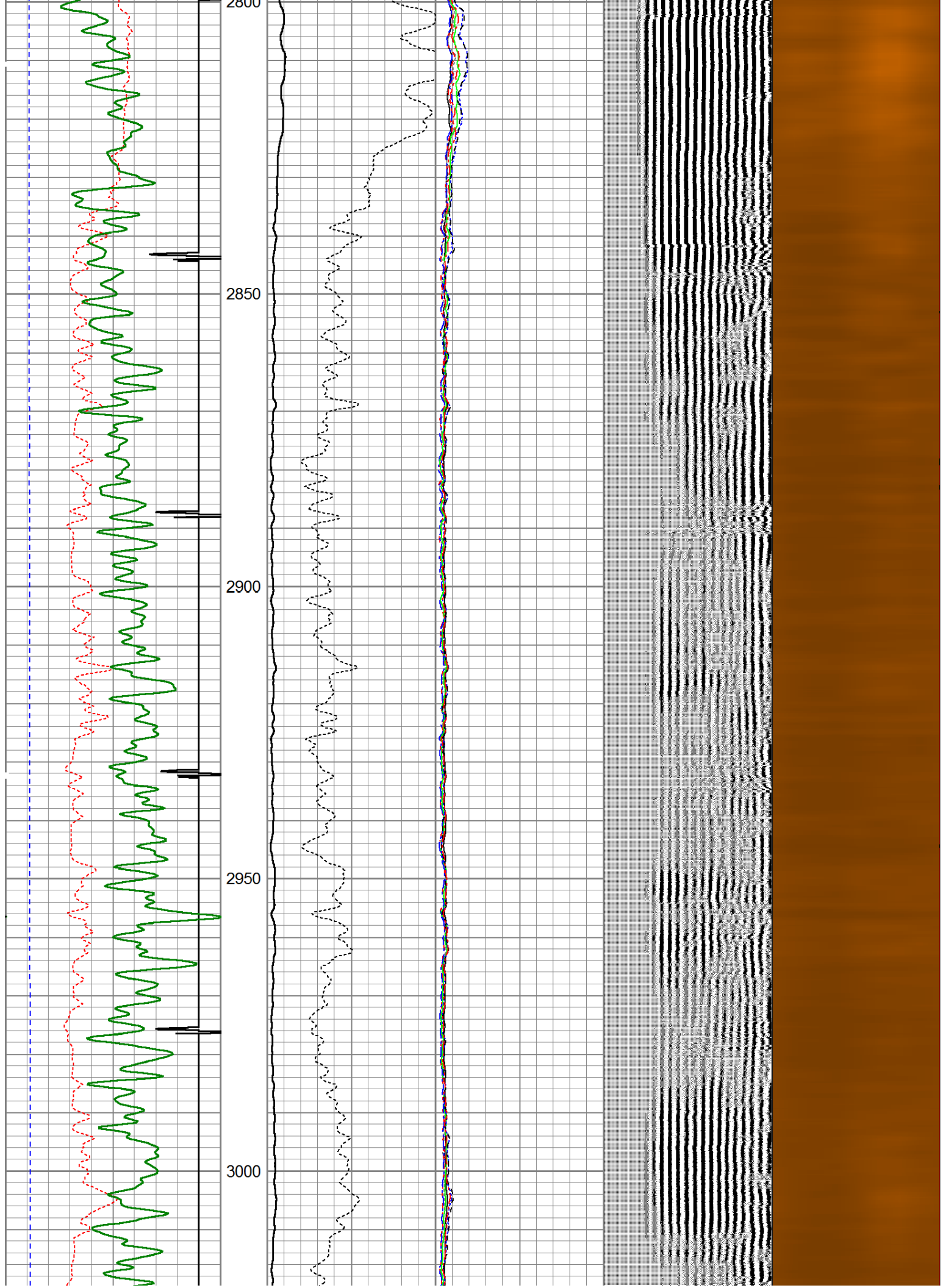




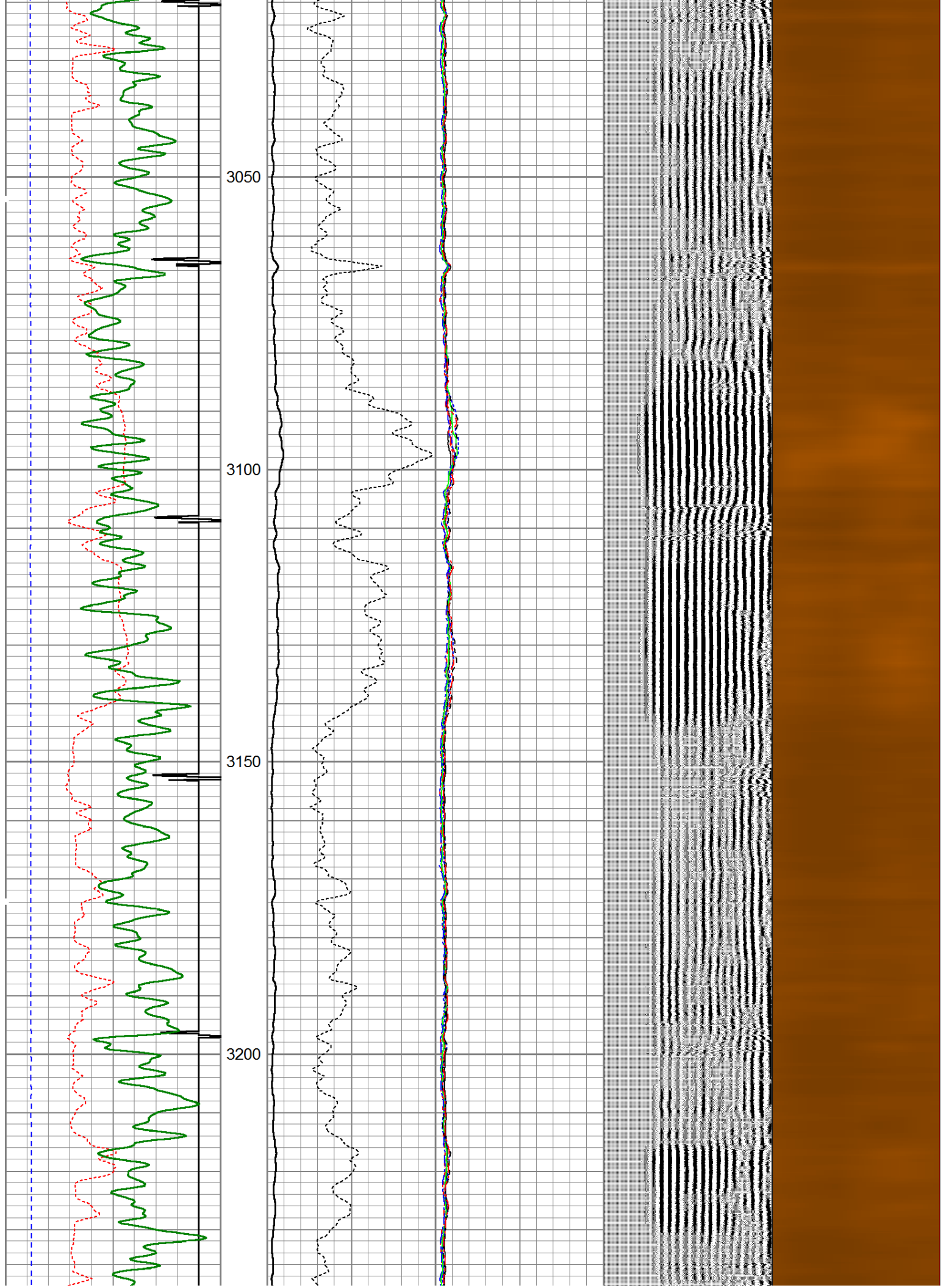




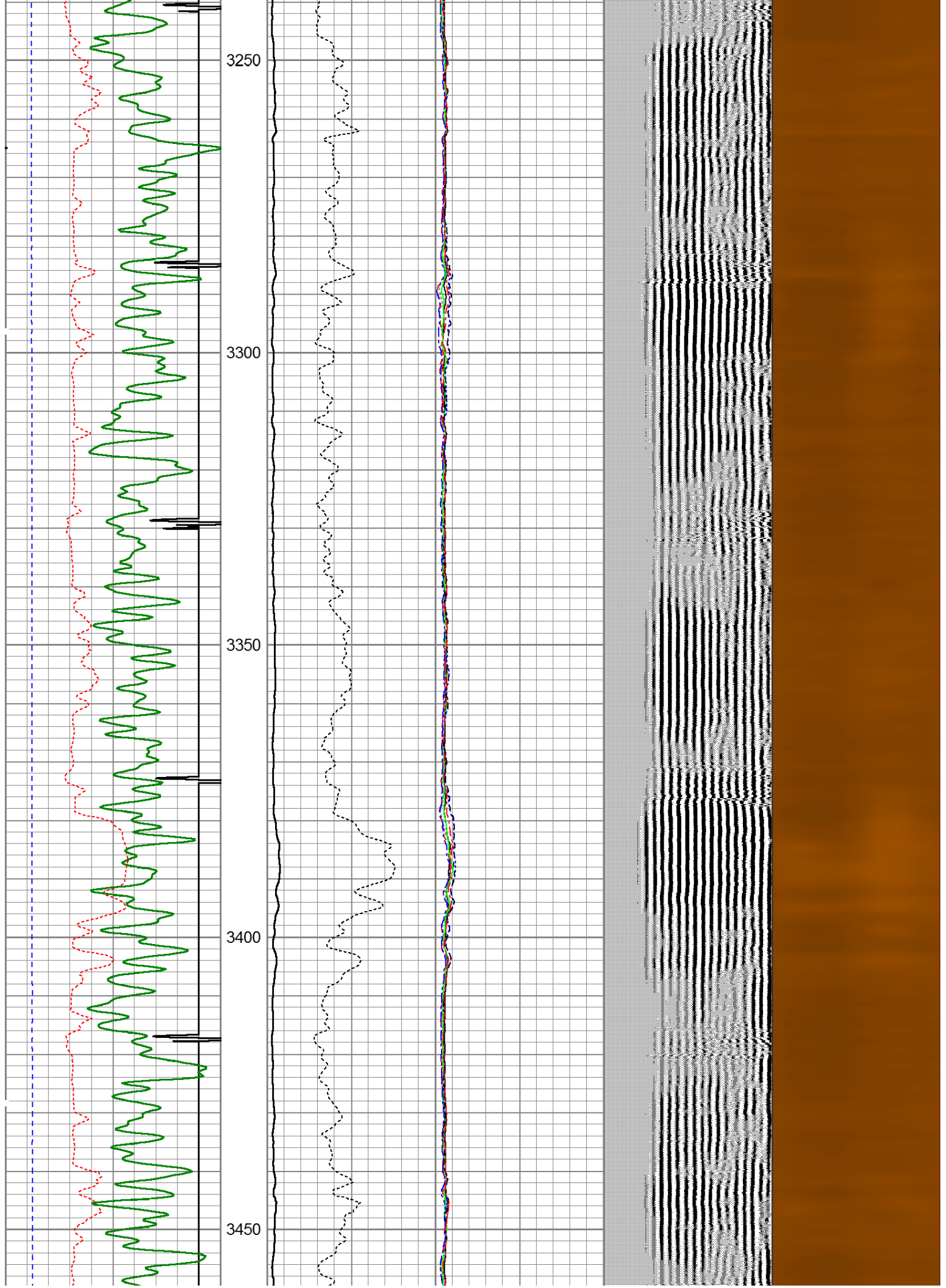


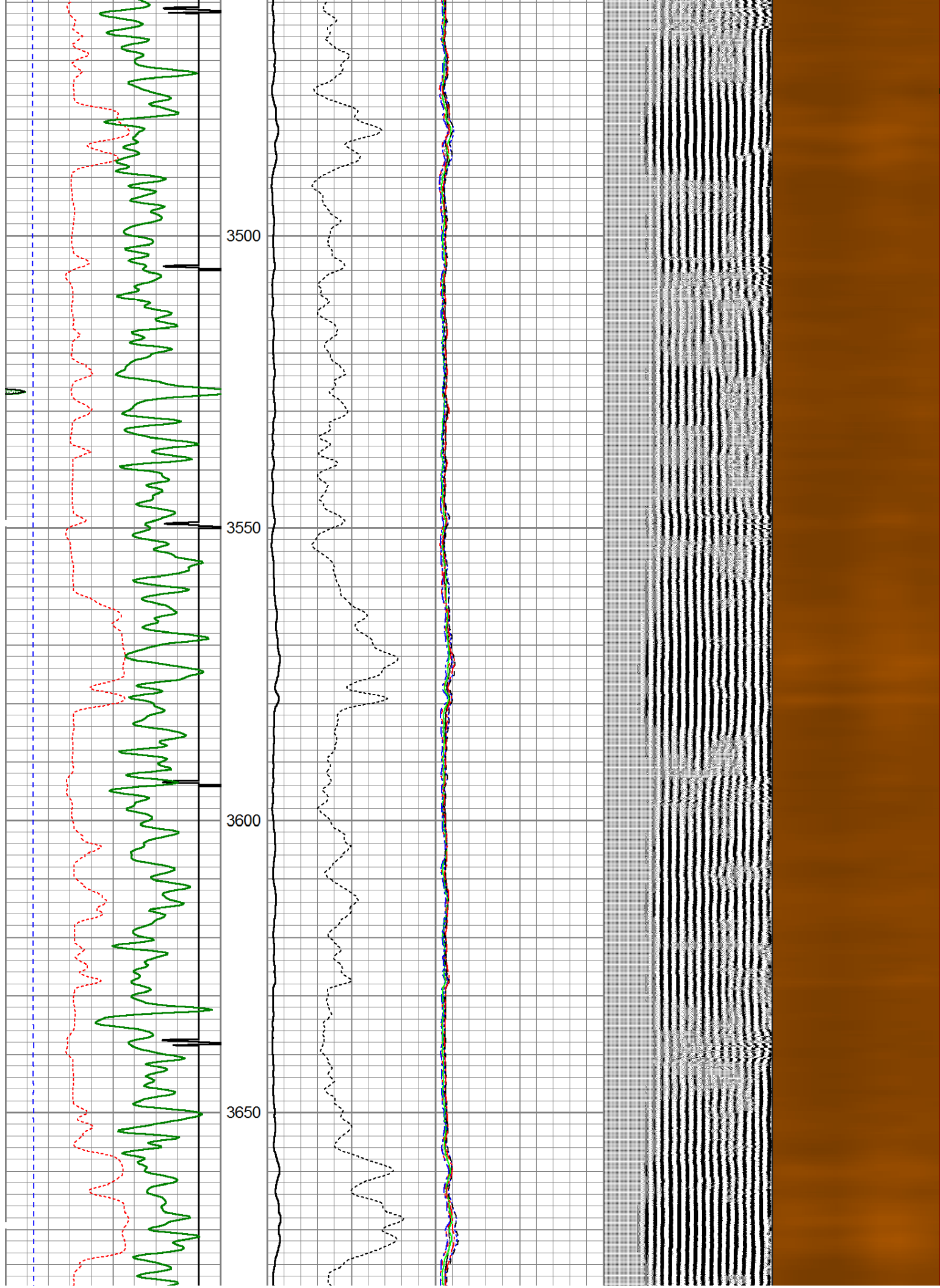




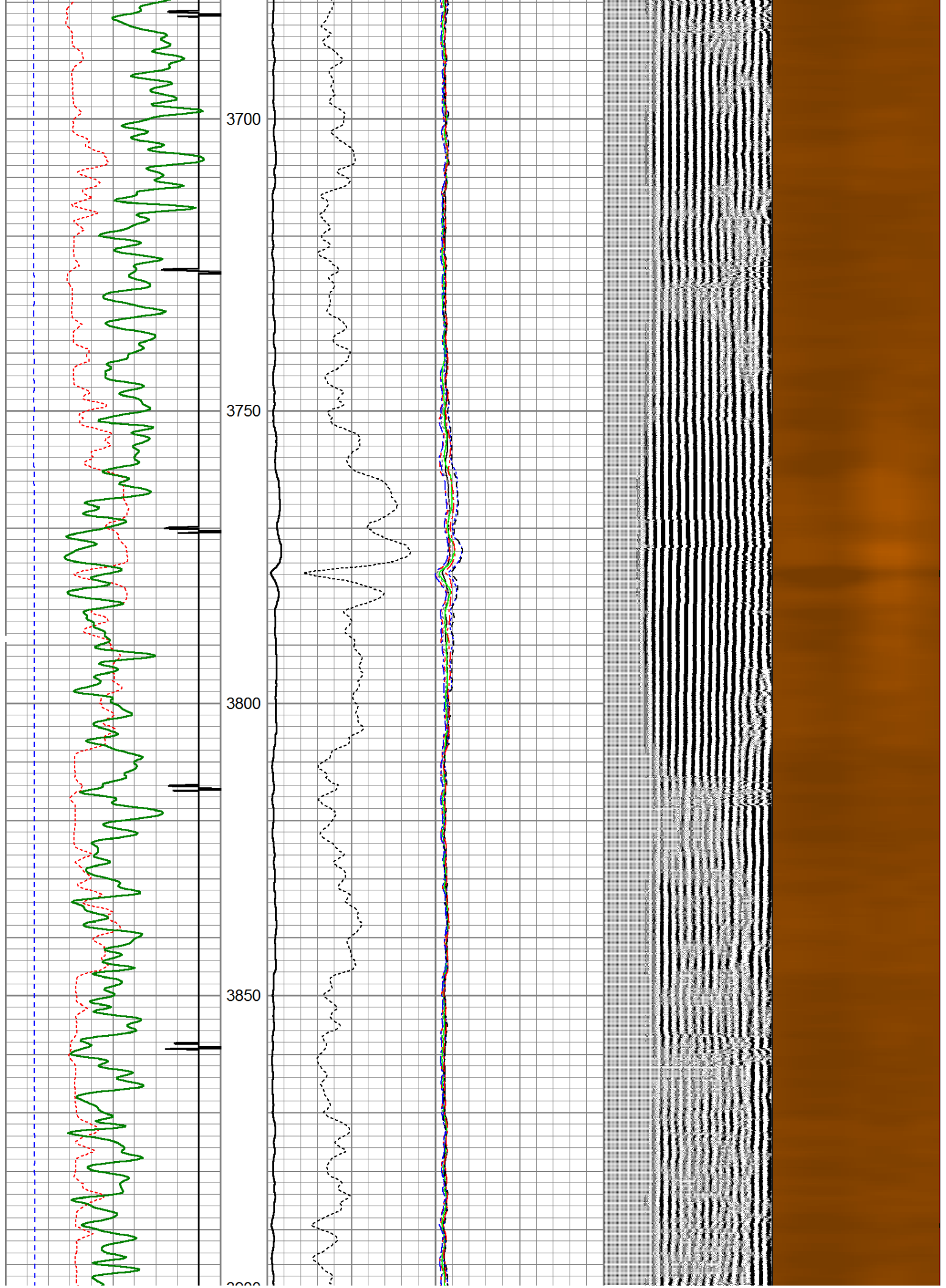




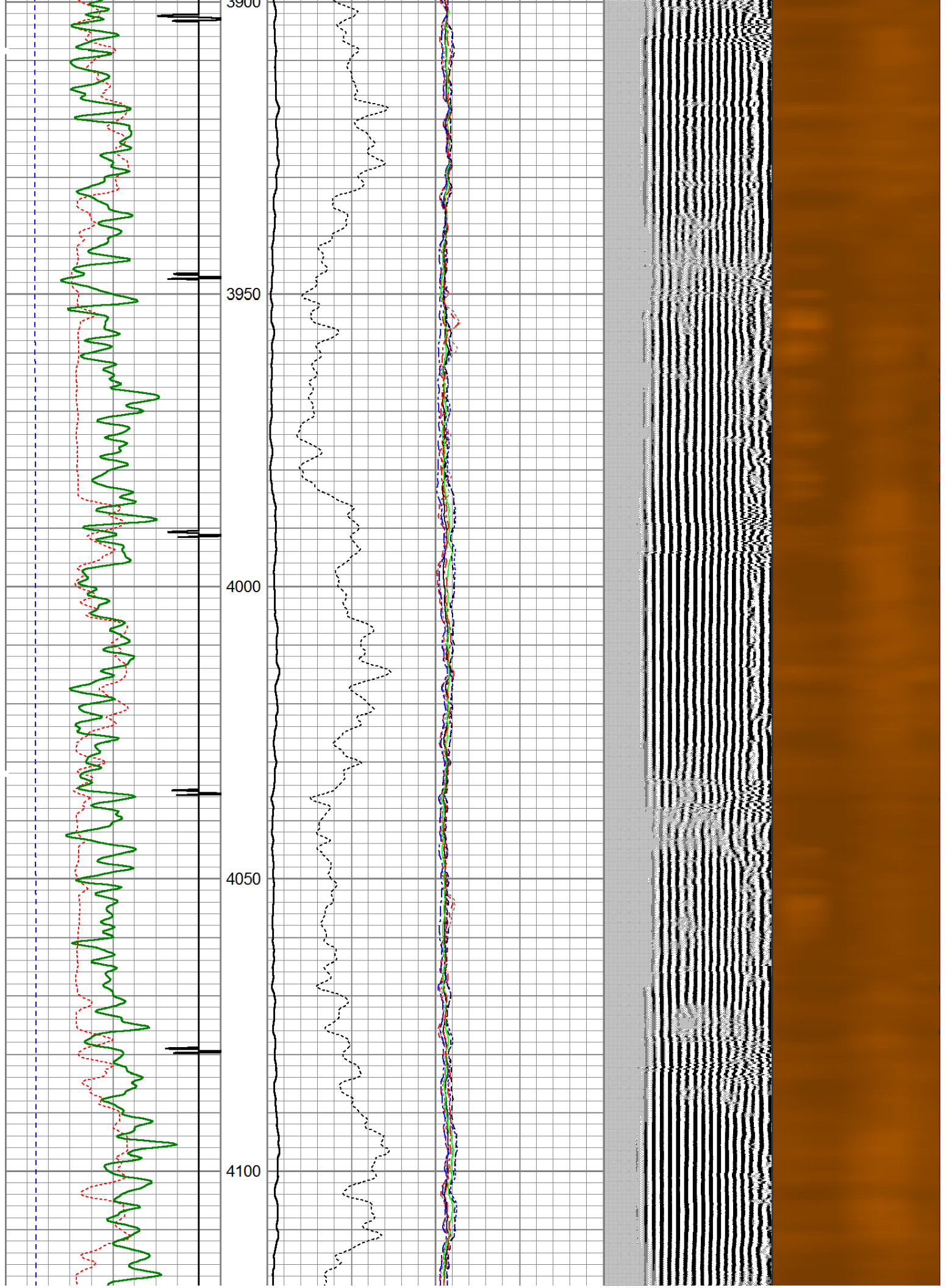


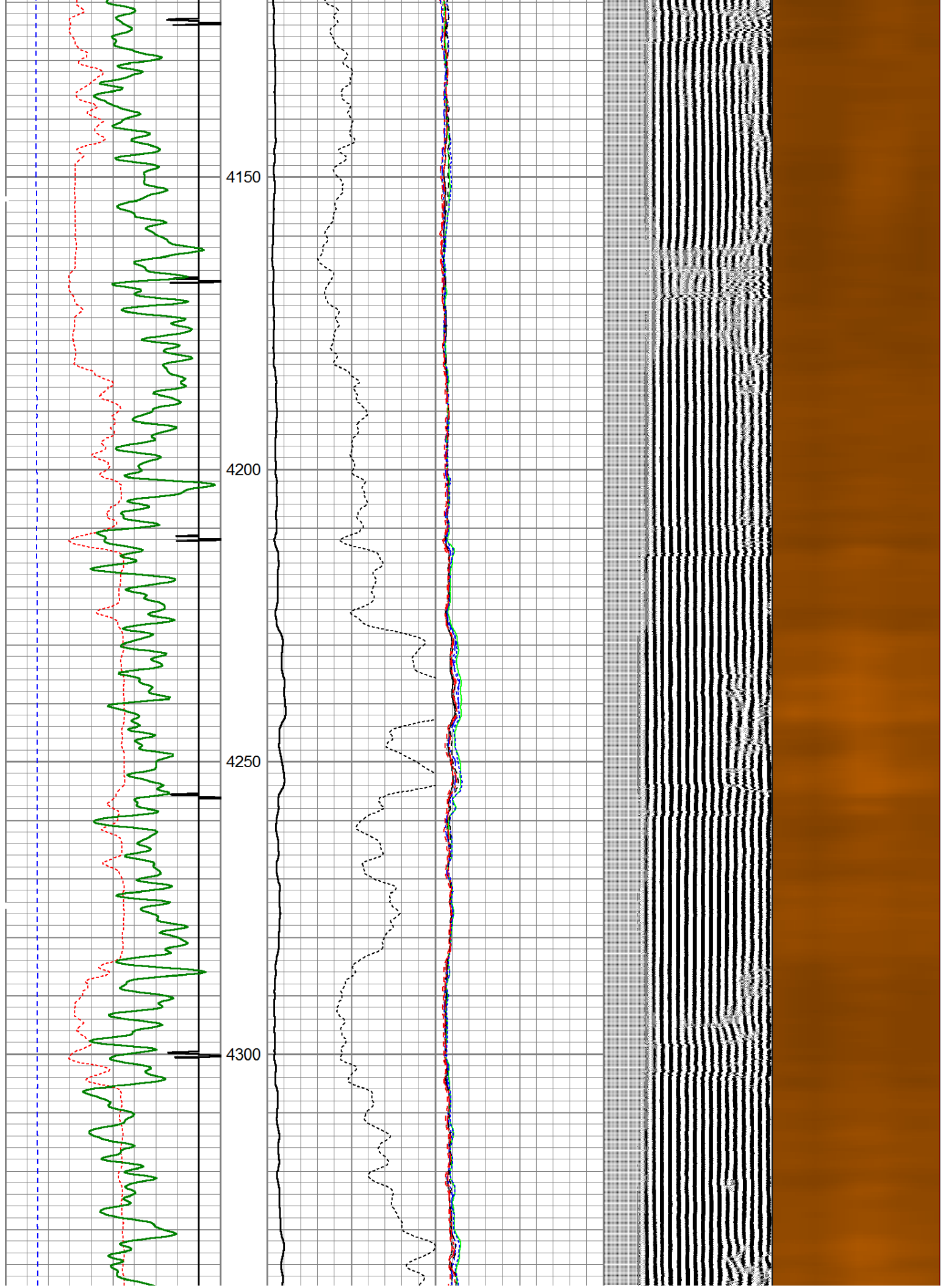


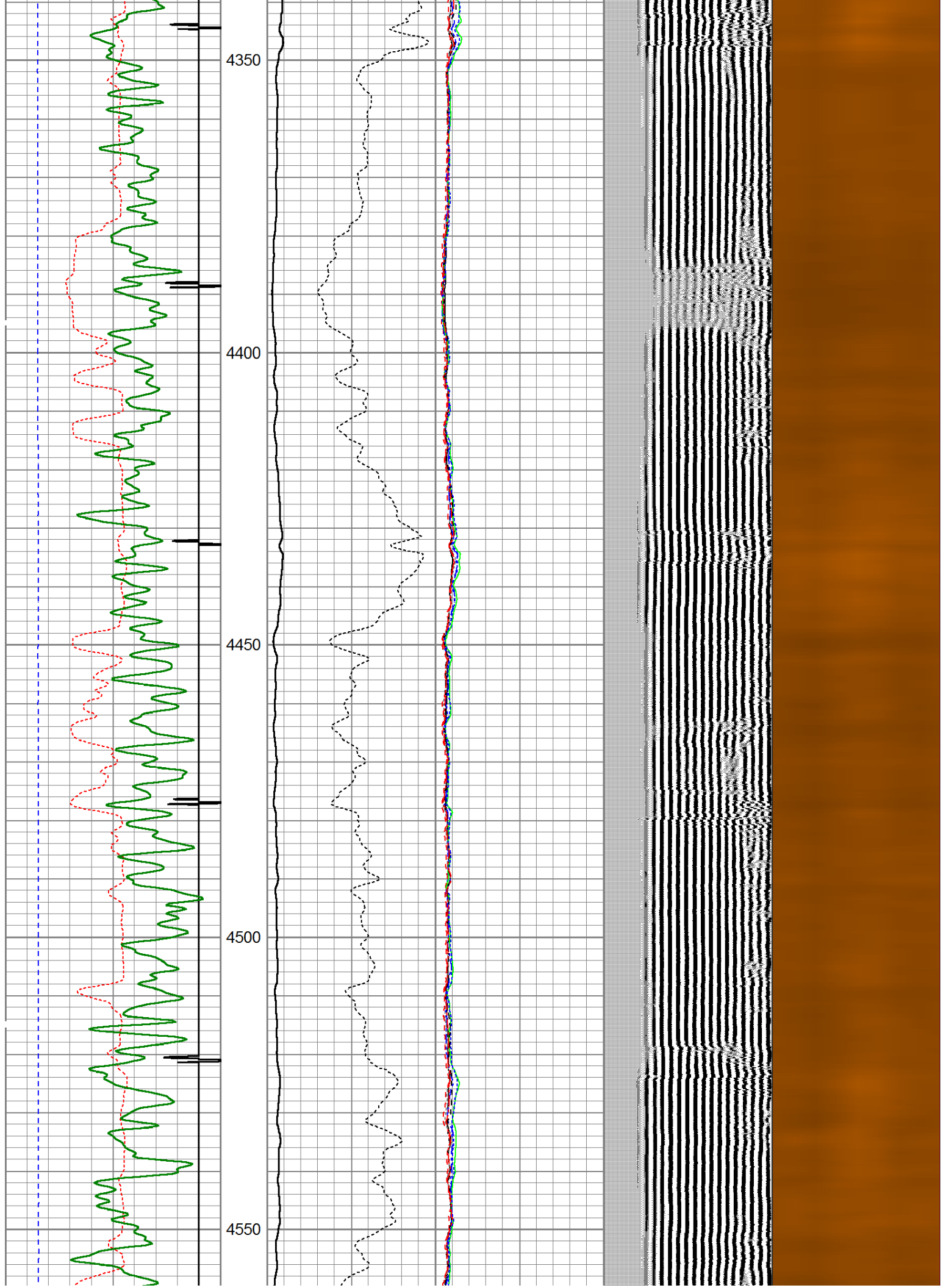




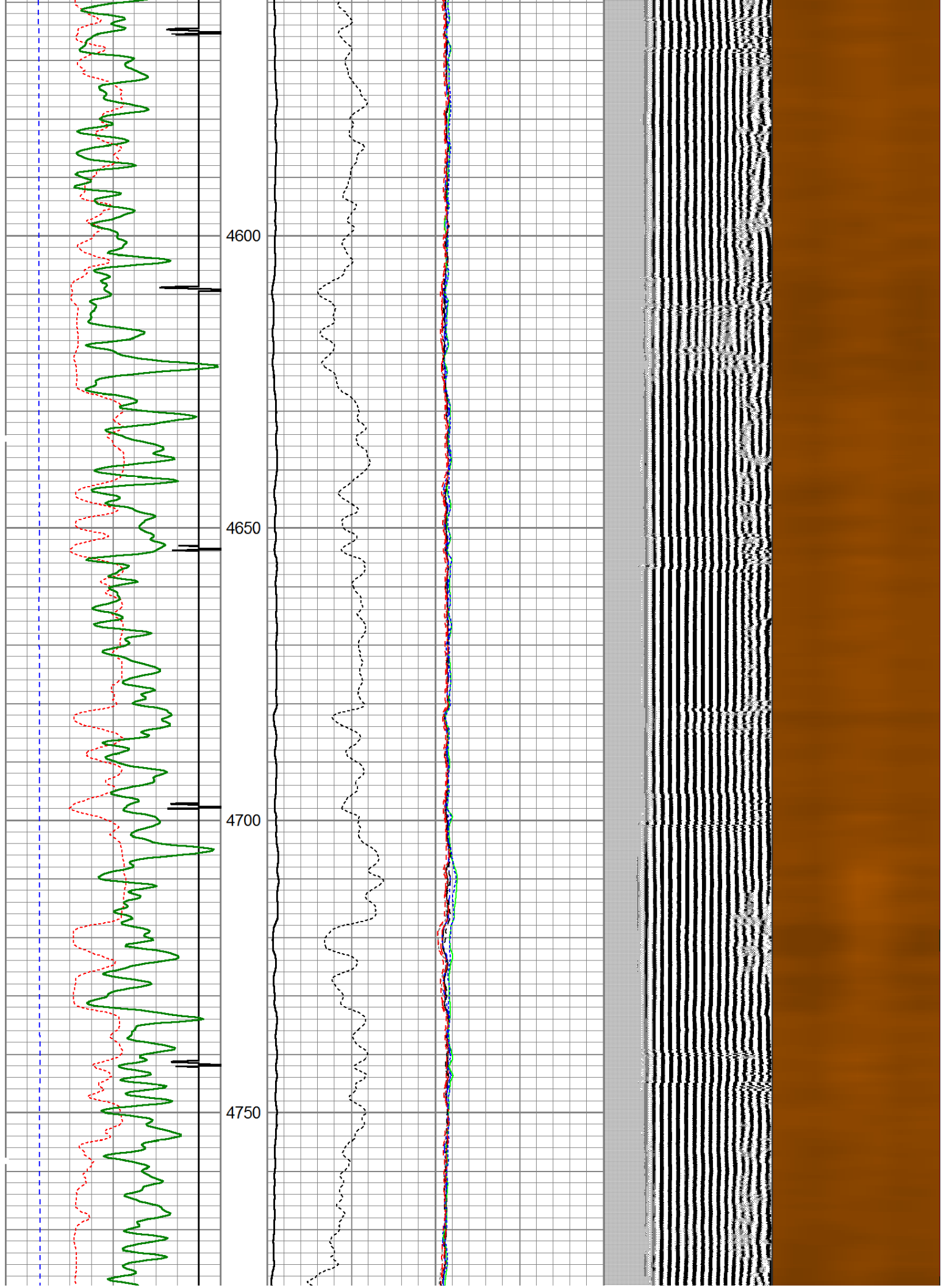


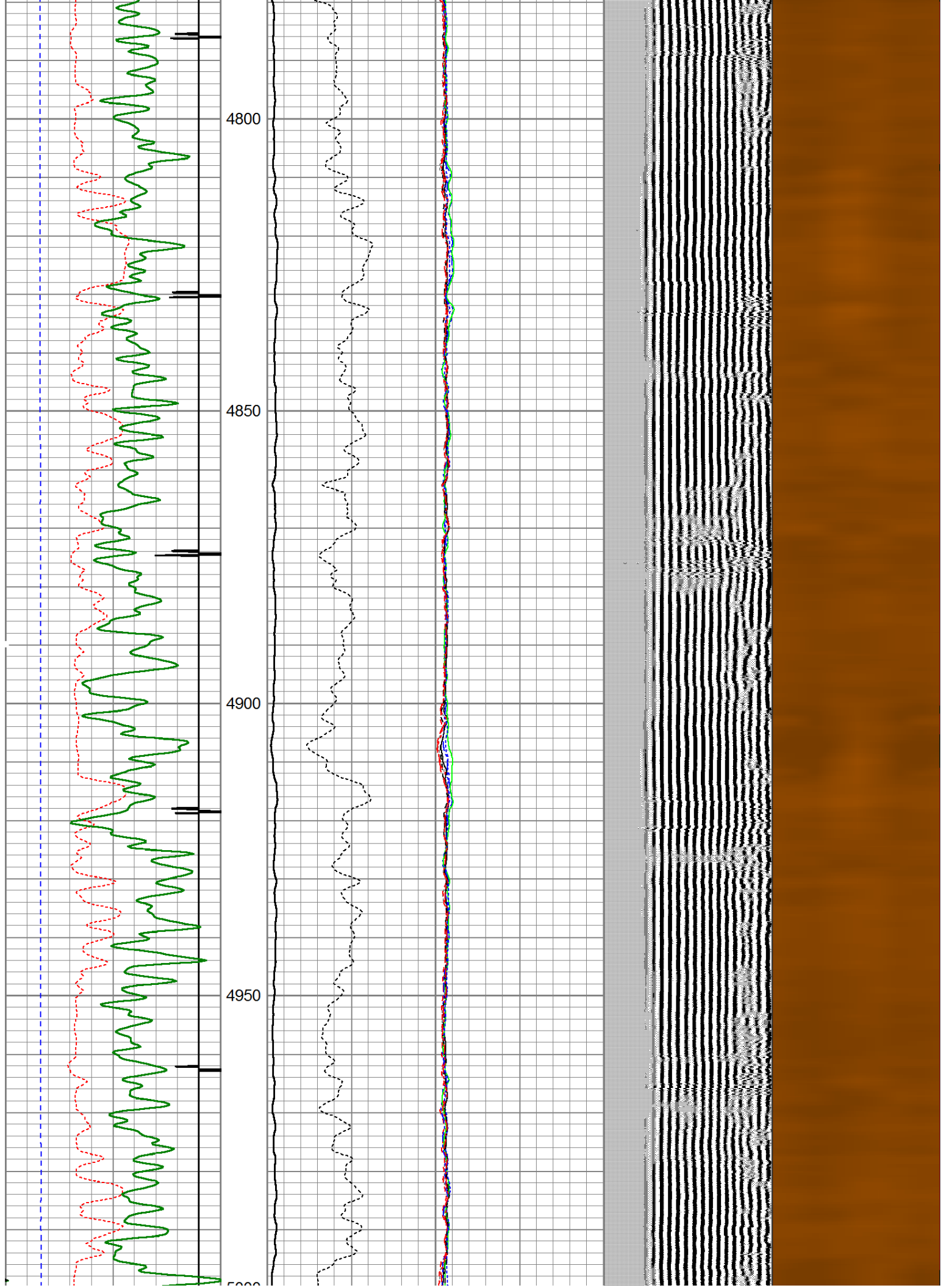


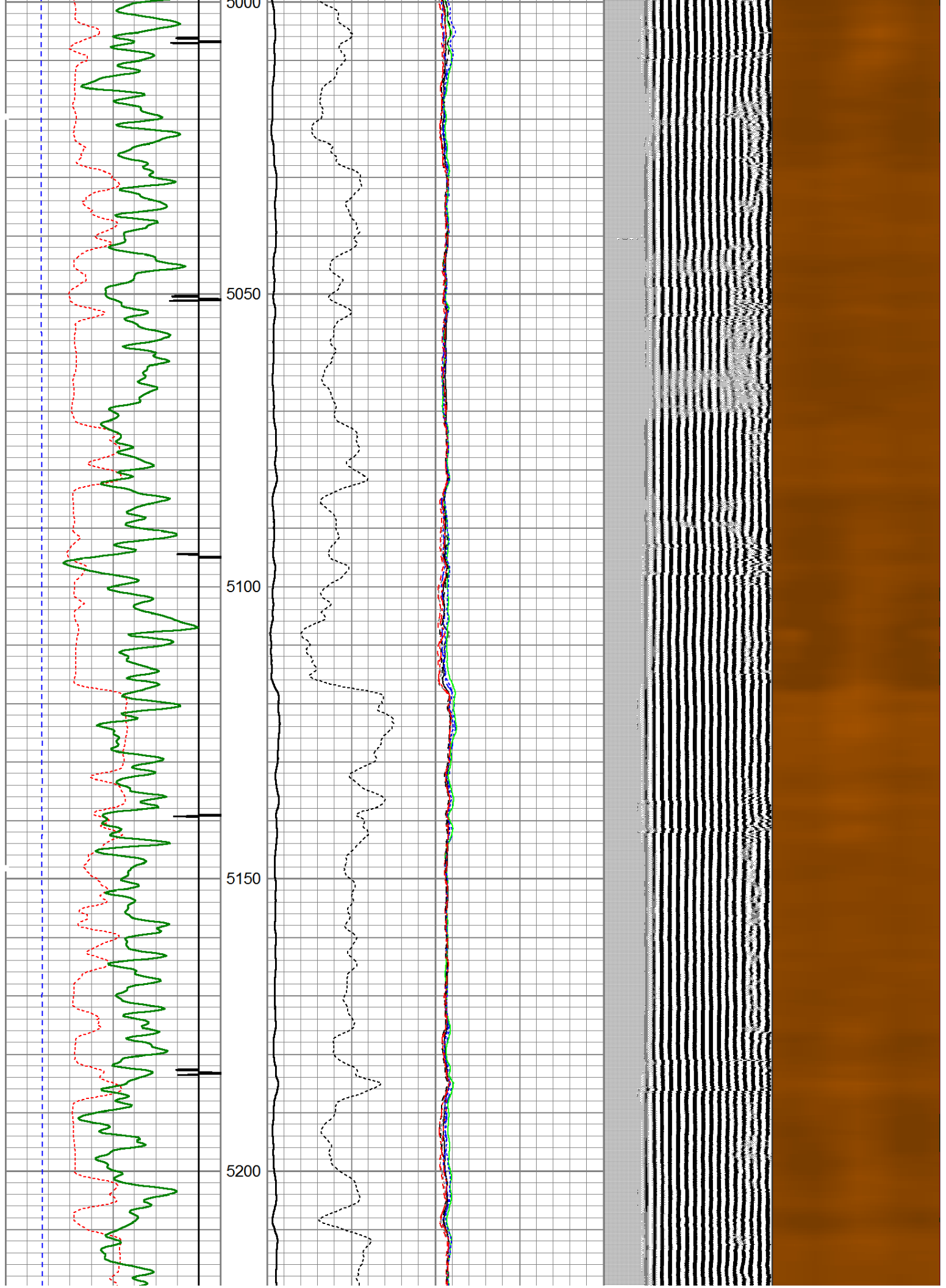




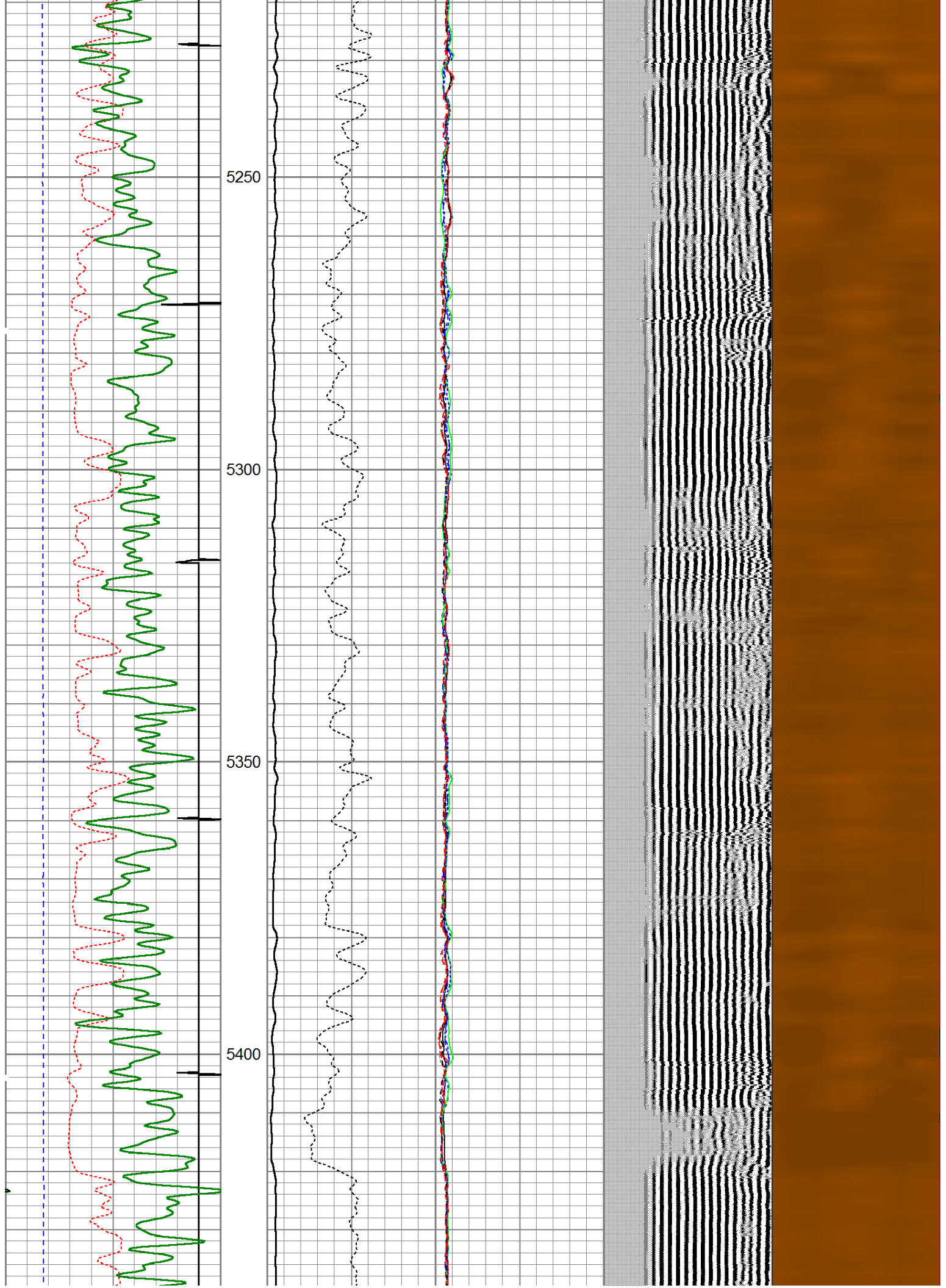


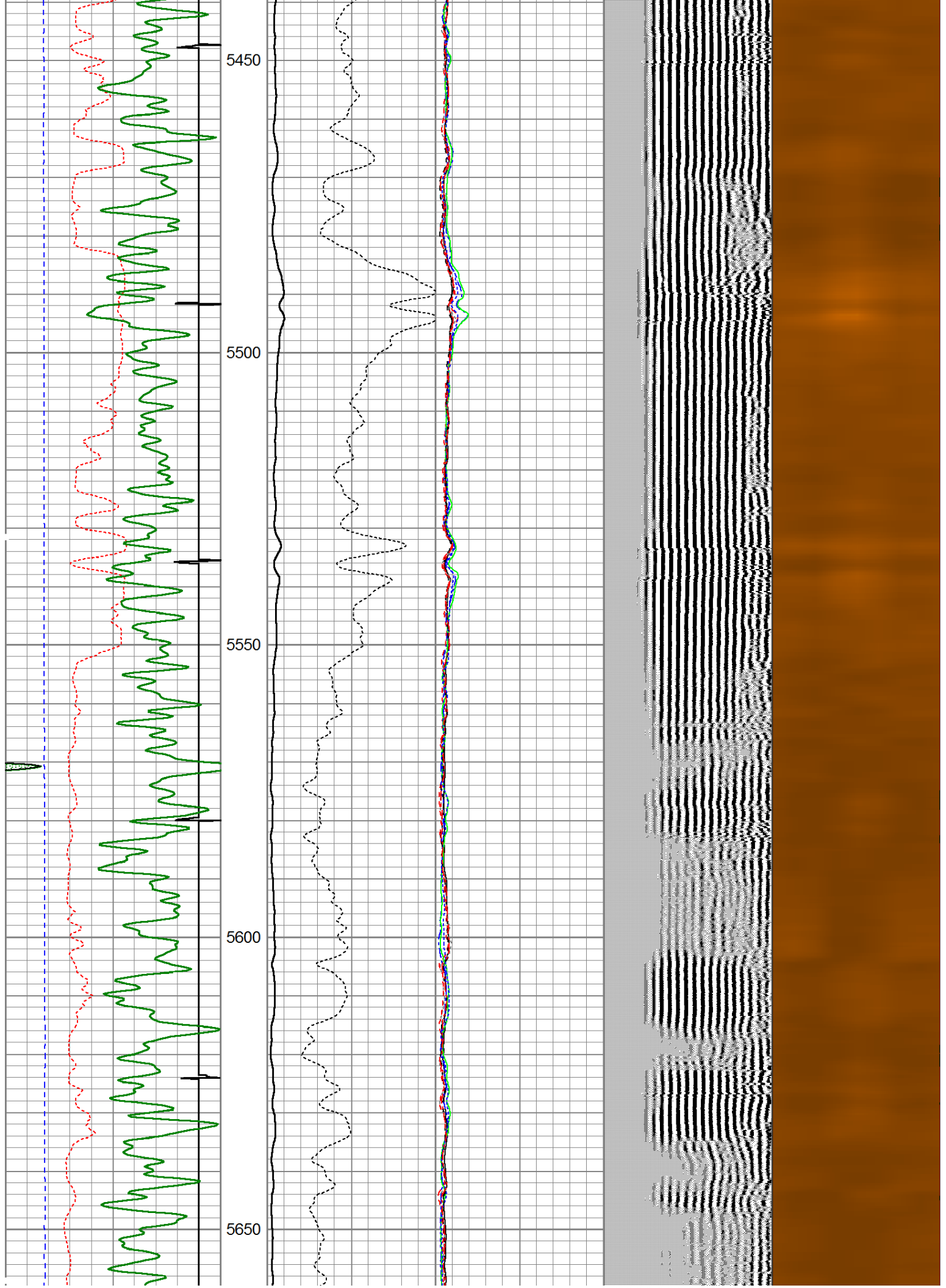


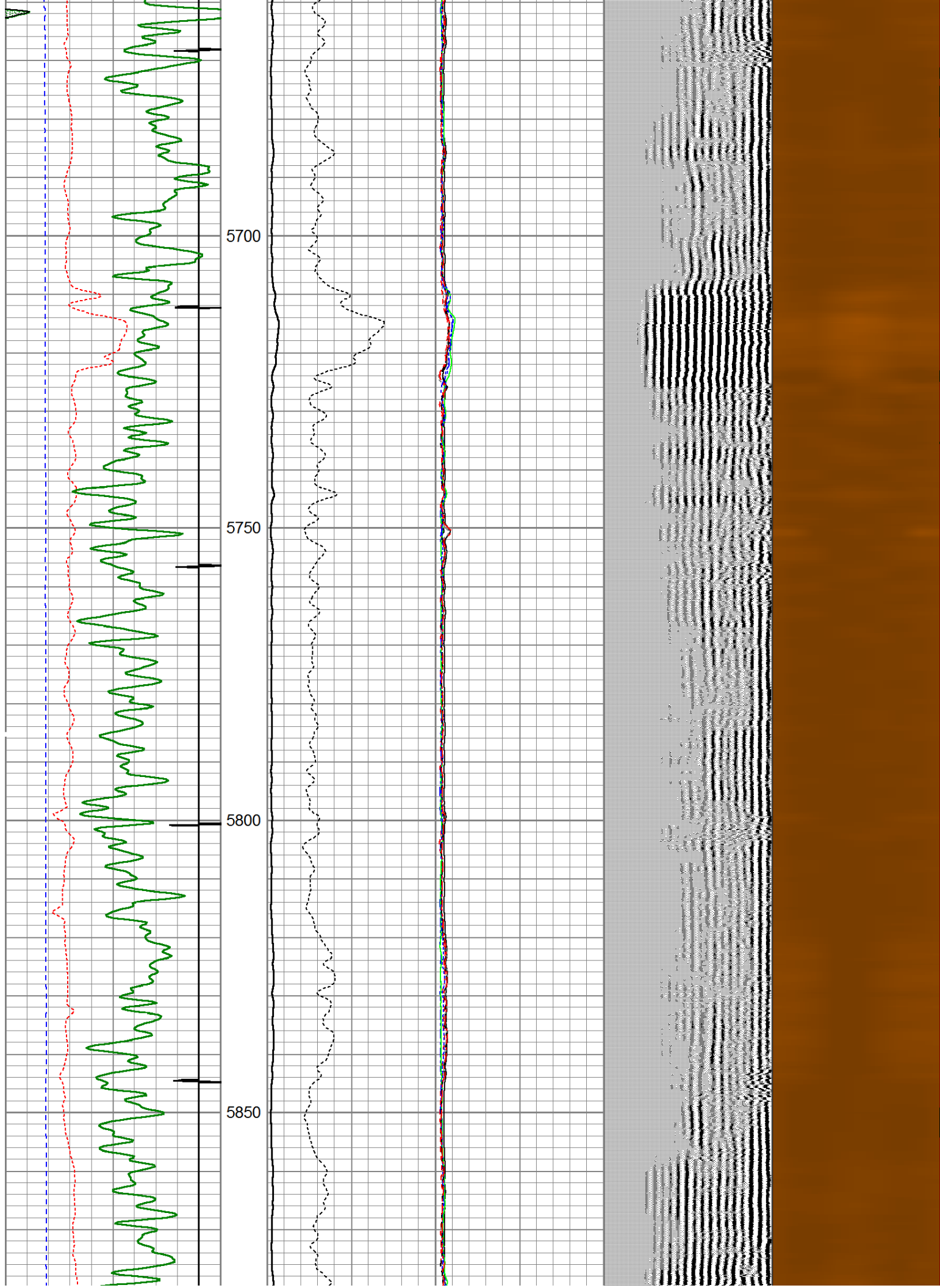




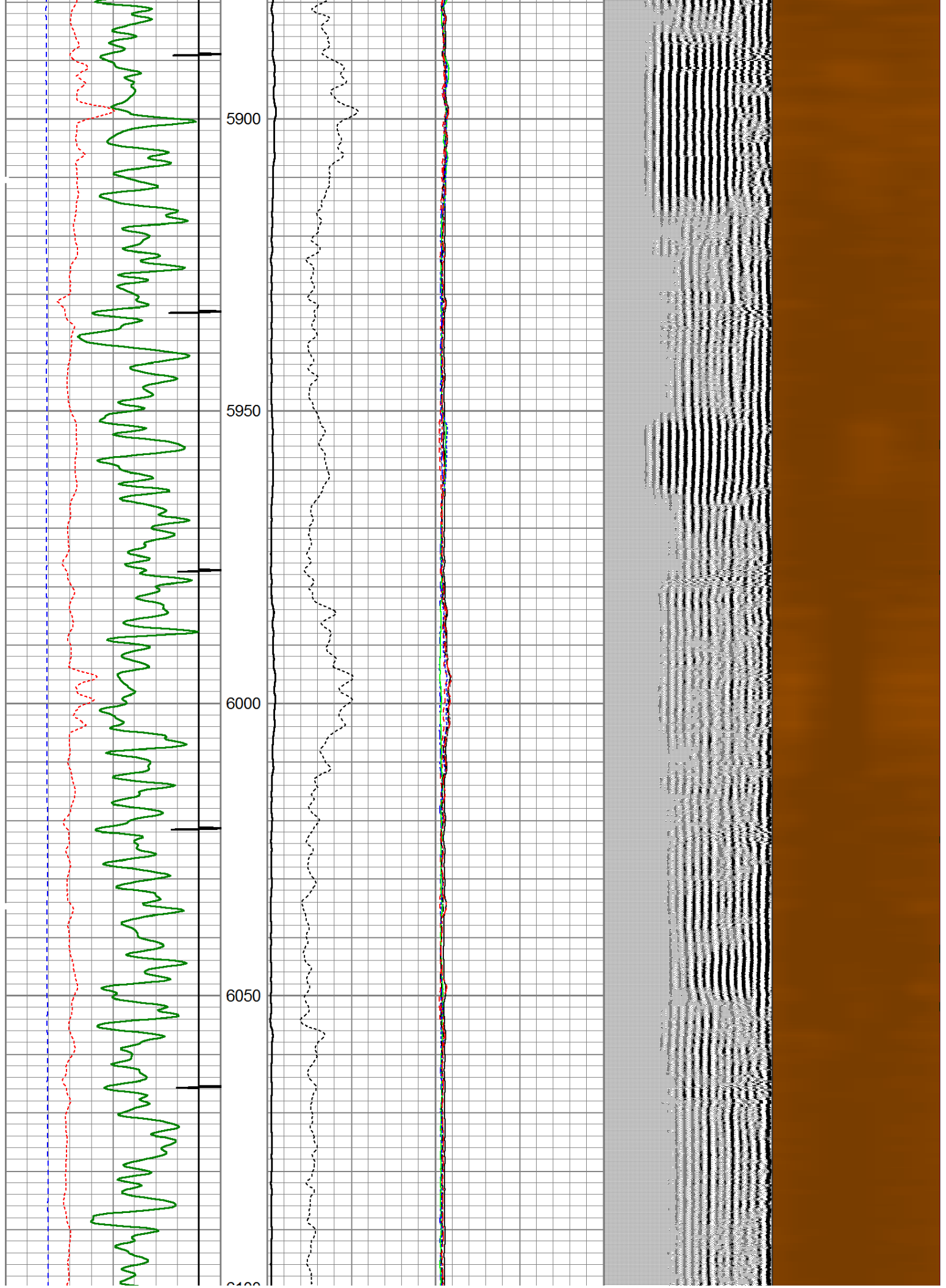


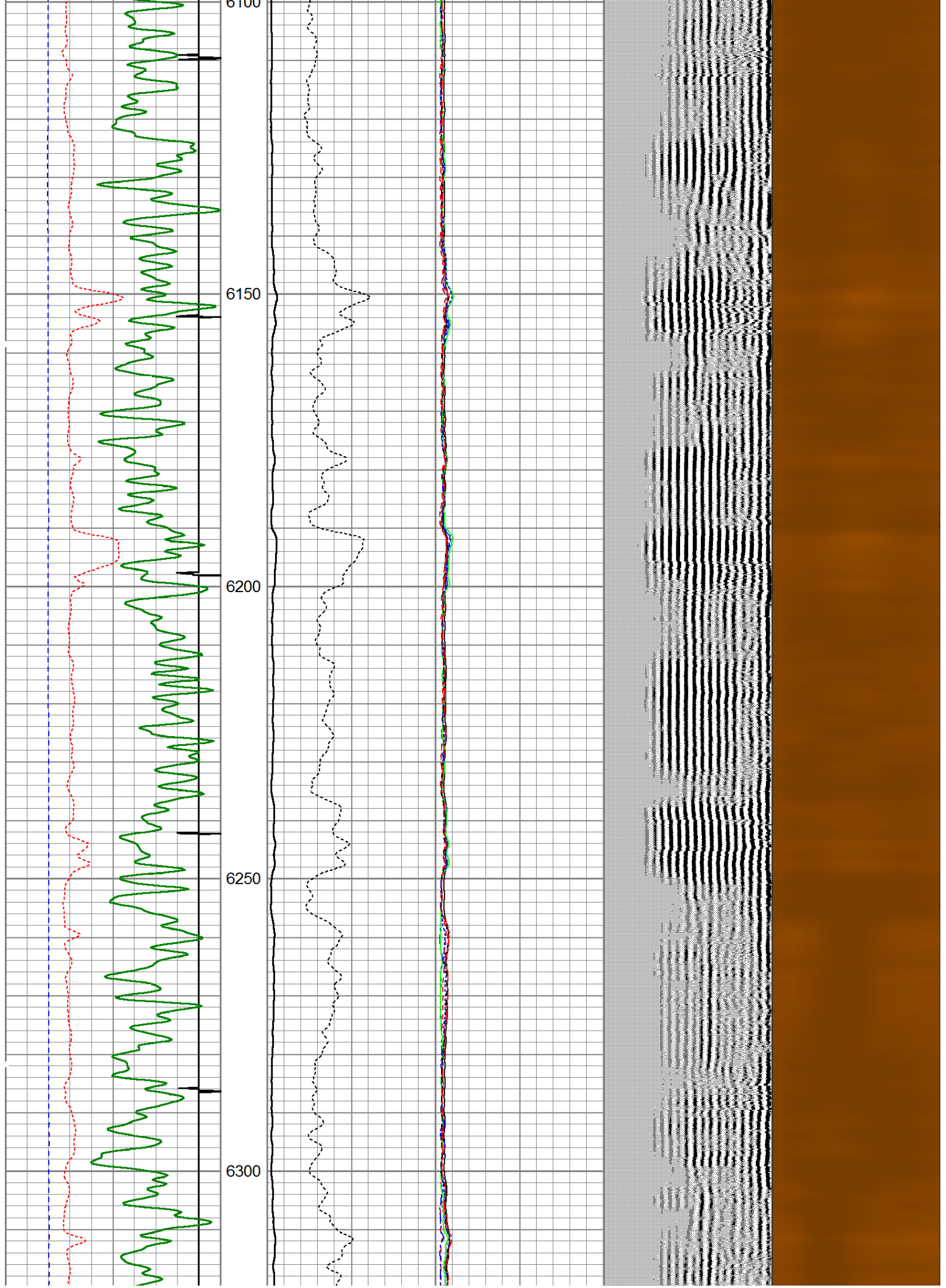




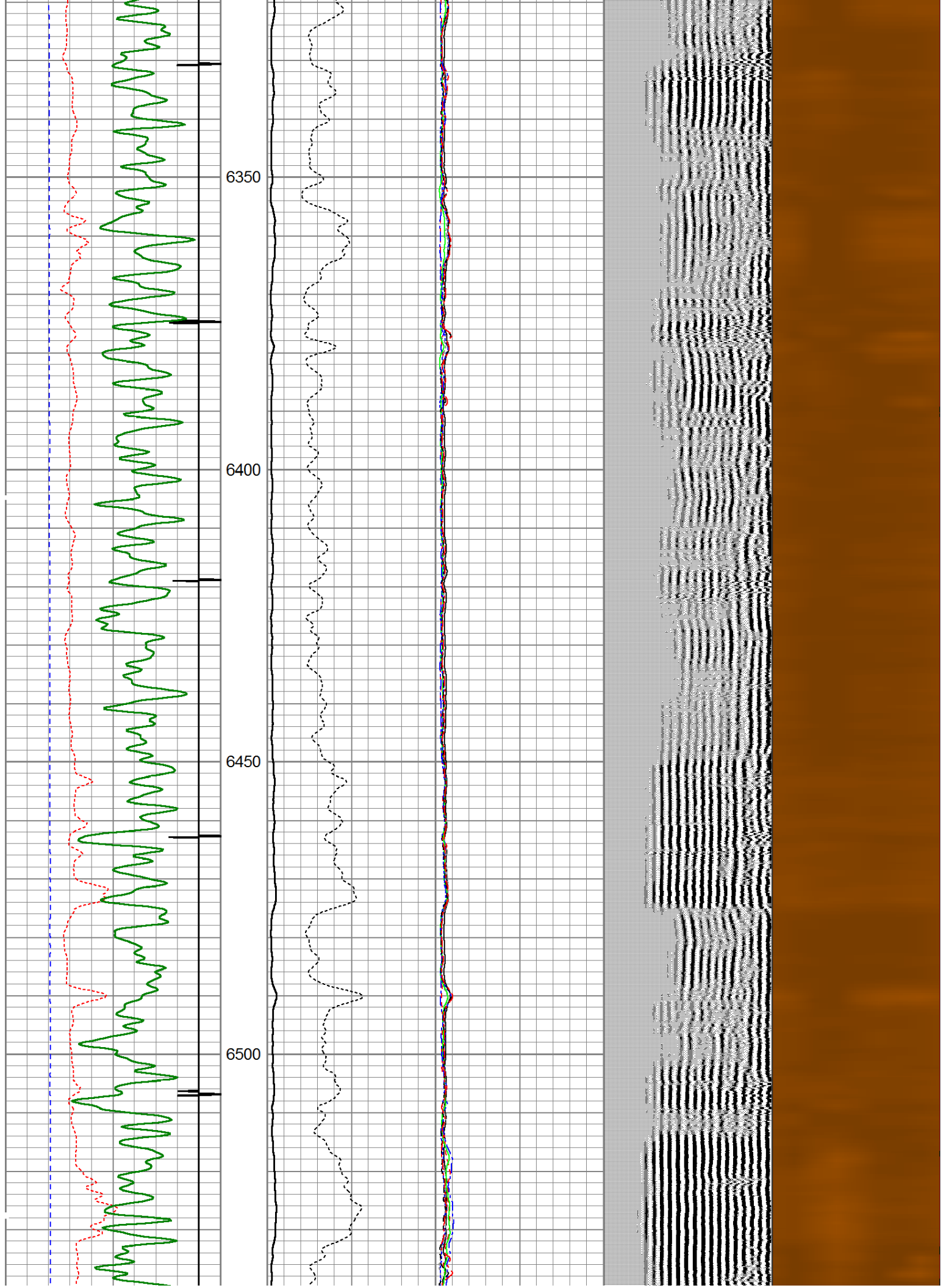




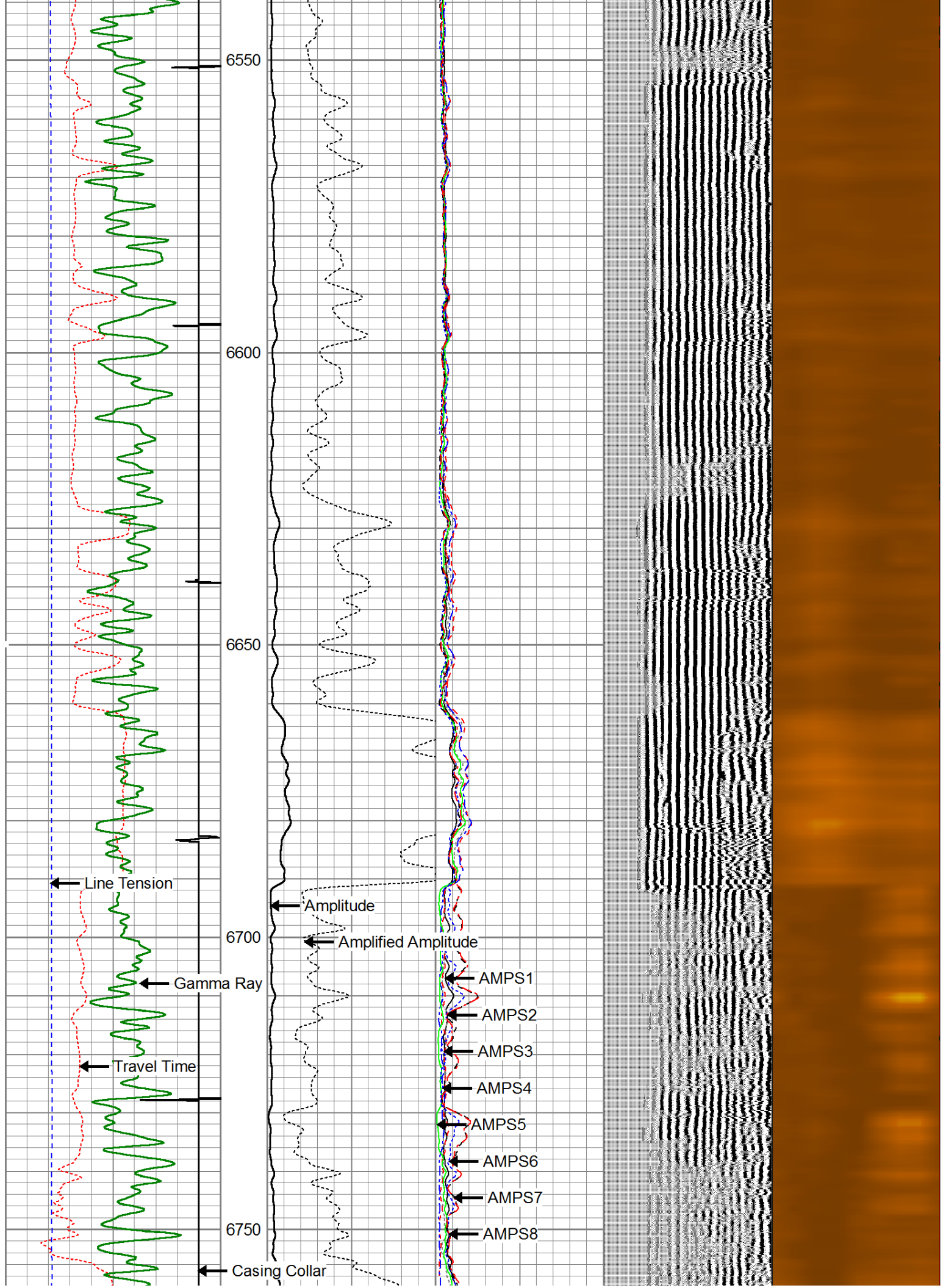


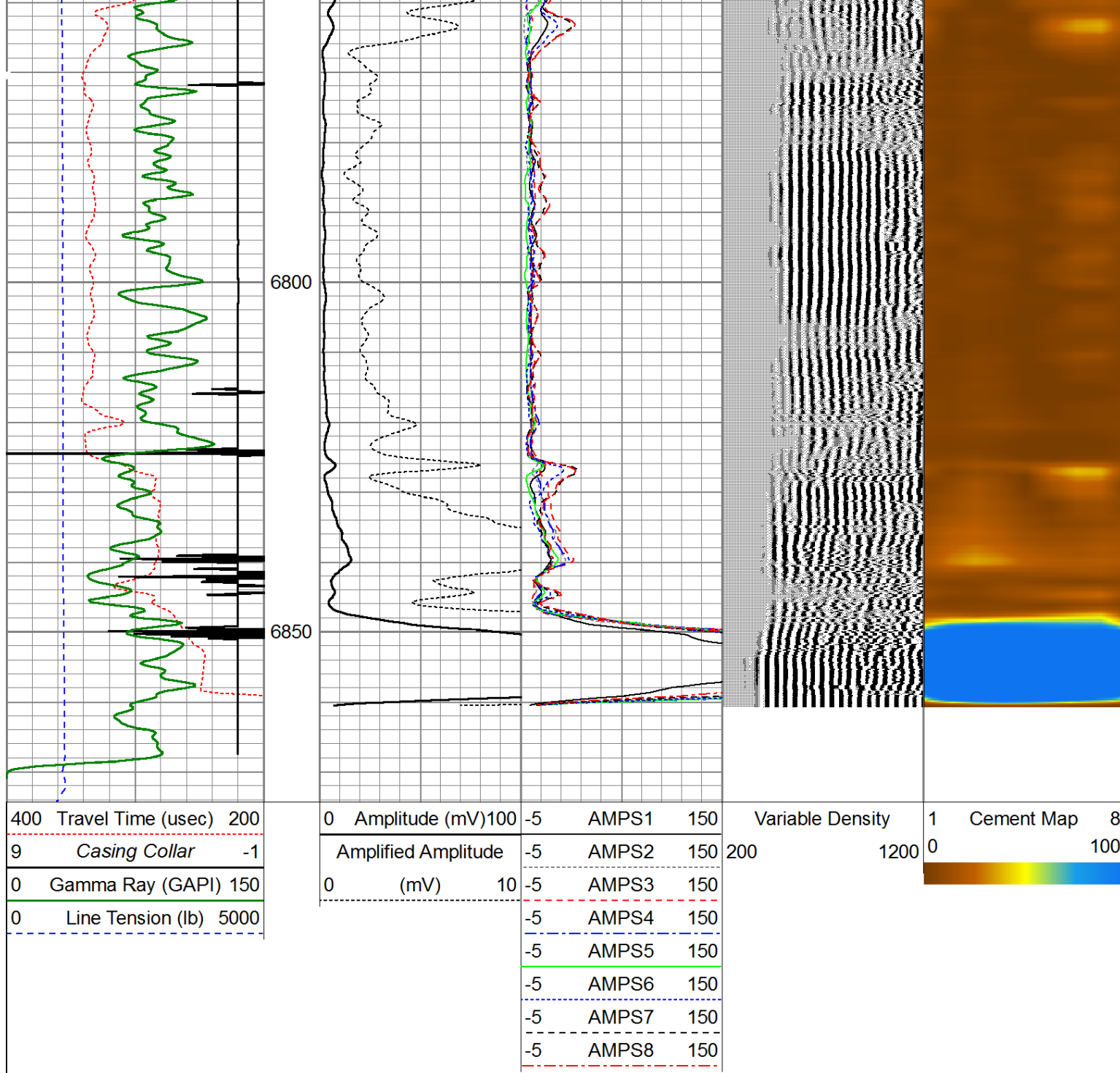












# REPEAT PASS ( 0 PSI )

Database File: bayswater\_matrix\_p-29hc\_cbl.db

Dataset Pathname: pass2.1

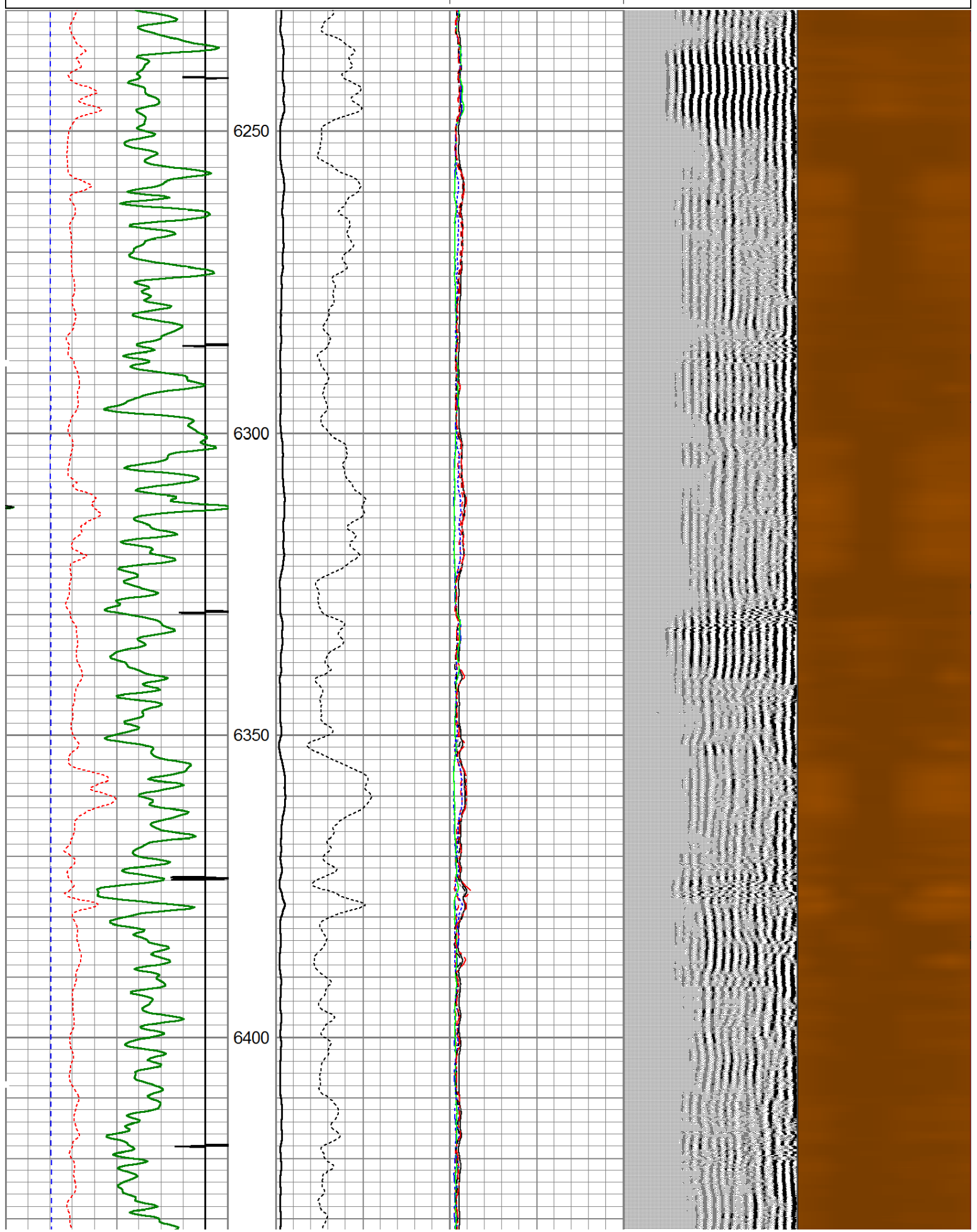
Presentation Format: scbl03

Dataset Creation: Tue Mar 24 15:26:54 2015 by Calc 7.0 B1

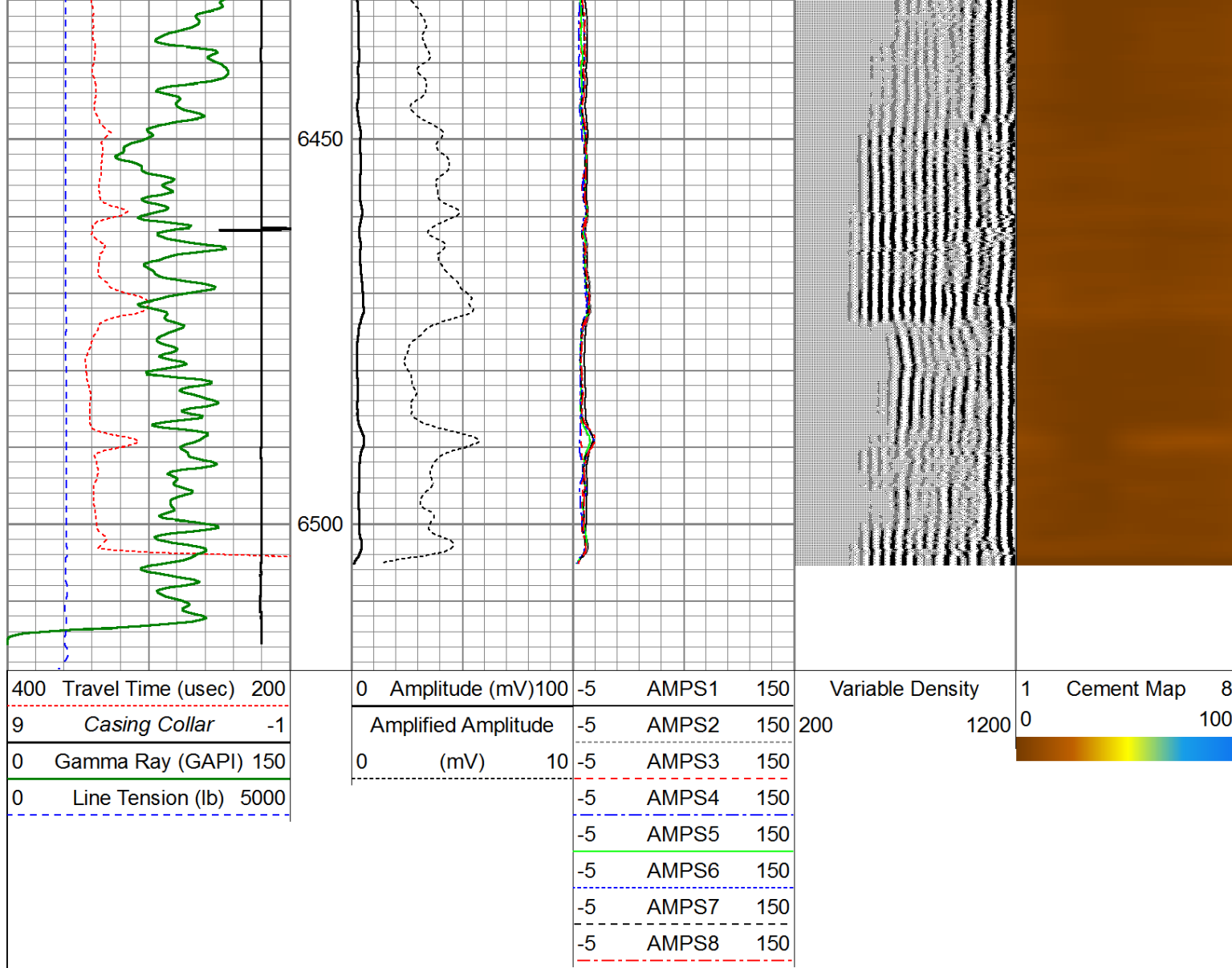
Charted by: Depth in Feet scaled 1:240

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	100		
0	Gamma Ray (GAPI)	150	(mV)	10	-5	AMPS3	150					
0	Line Tension (lb)	5000	-5	AMPS4	150							
			-5	AMPS5	150							

5	AMPS5	150
-5	AMPS6	150
-5	AMPS7	150
-5	AMPS8	150







### Calibration Report

Database File: bayswater\_matrix\_p-29hc\_cbl.db  
Dataset Pathname: pass6.5  
Dataset Creation: Tue Mar 24 14:48:57 2015 by Calc 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

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

	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	125.000	-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:

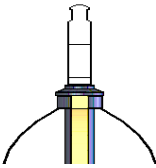
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

## Temperature Calibration Report

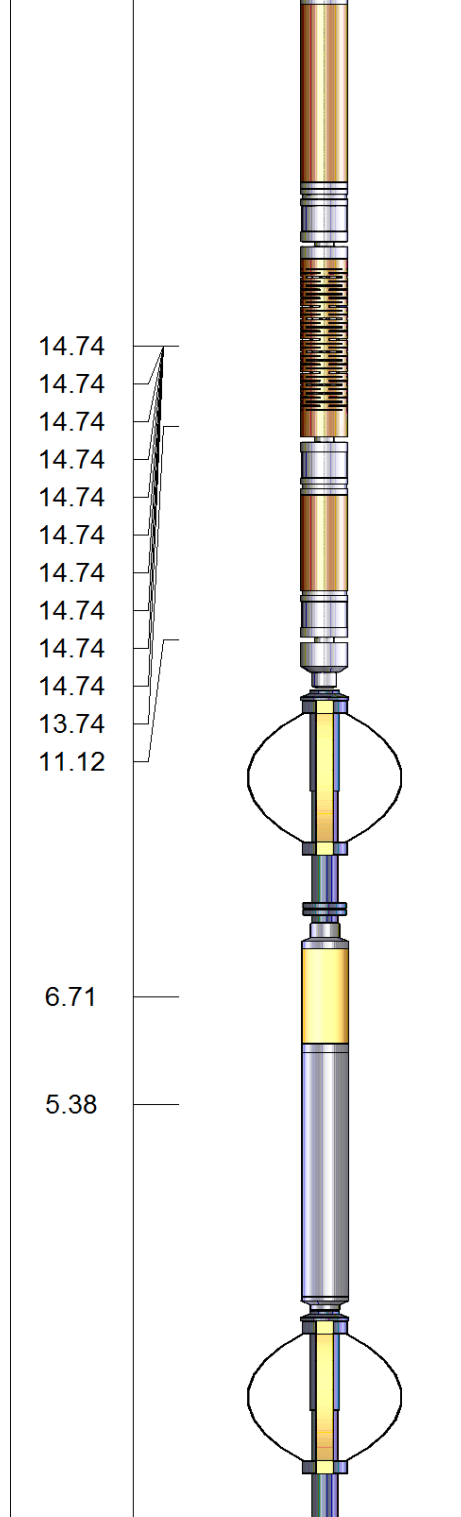
Serial Number: FW1408-26  
Tool Model: RBTC3  
Performed: Sun Jun 13 13:33:21 1993

	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

Tool Joint #	Tool Joint Depth (ft)	Tool Joint Description	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Length (ft)
1	11.12	TEMP	2.88	2.75	20.00
2	13.74	WVF5FT	2.88	2.75	20.00
3	14.74	WVFS8	2.88	2.75	20.00
4	14.74	WVFS7	2.88	2.75	20.00
5	14.74	WVFS6	2.88	2.75	20.00
6	14.74	WVFS5	2.88	2.75	20.00
7	14.74	WVFS4	2.88	2.75	20.00
8	14.74	WVFS3	2.88	2.75	20.00
9	14.74	WVFS2	2.88	2.75	20.00
10	14.74	WVFS1	2.88	2.75	20.00
11	14.74	WVFCAL	2.88	2.75	20.00
12	14.74	WVF3FT	2.88	2.75	20.00
13	19.52	Probe275 2.75" Centralizer	2.88	2.75	20.00
14	22.28	GR-Probe275 (FW1408-35) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
15	25.04	PTS275	2.83	2.75	20.00
16	27.80	RBT-RBTC3 (FW1408-26) Probe Corrosion RCBL	8.92	2.75	90.00
17	28.00	Probe275 2.75" Centralizer	2.88	2.75	20.00
18	28.00	CCL	2.88	2.75	20.00



Dataset: bayswater\_matrix\_p-29hc\_cbl.db: field/well/run1/pass6.5

Total Length: 23.28 ft

Total Weight: 197.00 lb

O.D. 2.75 in





County WELD  
State COLORADO