



Radial Cement Bond
Gamma Ray CCL
Log

Company	Petroshare Corp	Company	Petroshare Corp
Well	SHOOK 3-10-2CDH	Well	SHOOK 3-10-2CDH
Field	WATTENBERG	Field	WATTENBERG
County	ADAMS	County	ADAMS
State	COLORADO	State	COLORADO
Location:		API # : 05-001-09973	Other Services
Permanent Datum		G.L.	Elevation
Log Measured From		K.B.	5098'
Drilling Measured From		K.B.	Elevation
		K.B. 5111'	D.F. N/A
		G.L. 5098'	
Date	MARCH 3, 2018		
Run Number	ONE		
Depth Driller	13125'		
Depth Logger	8474'		
Bottom Logged Interval	8462'		
Top Log Interval	63'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	1266'		
Time Well Ready	22:15		
Time Logger on Bottom	23:00		
Equipment Number	200121		
Location	GREENEY CO		
Recorded By	MIKE NOWICKI		
Witnessed By	HAROLD POWELL		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	9-5/8"	36 PPF	SURFACE
Prot. String	5-1/2	20 PPF	SURFACE
Production String			
Liner			

<<< 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

Depth correlated to K.B.
Marker joint at 7760' - 7785'

THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

M. NOWICKI, B. SISSON, S. BARNETT



Main Pass (0) PSI

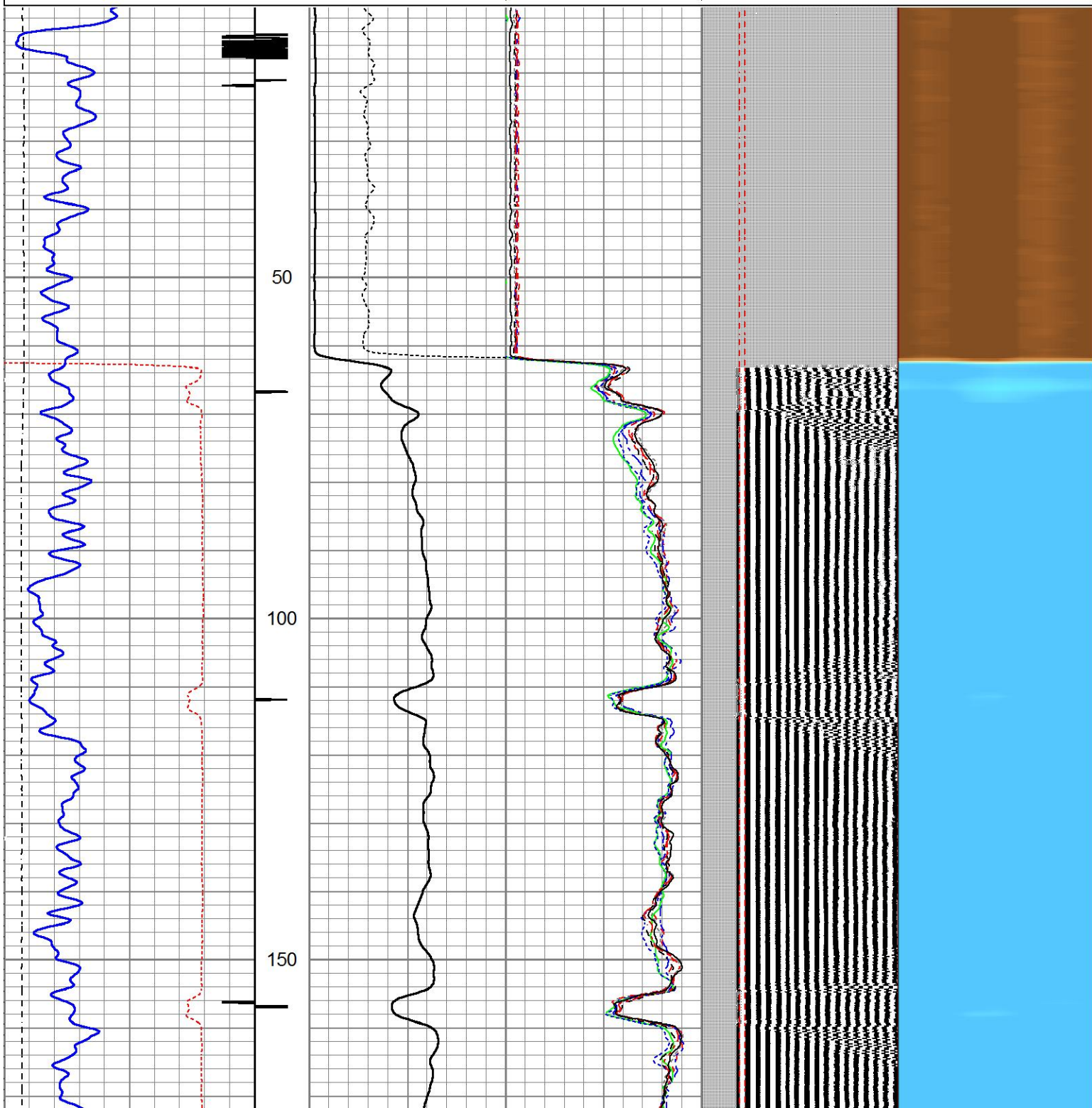
Database File e:\petroshare corp shook pad\db\s\fs0208 ps shook 3-10-2cdh cbl.db
Dataset Pathname Shook3-10-2CDH/run1/pass5
Presentation Format scbl5_5
Dataset Creation Wed Mar 07 00:30:33 2018
Charted by Depth in Feet scaled 1:240

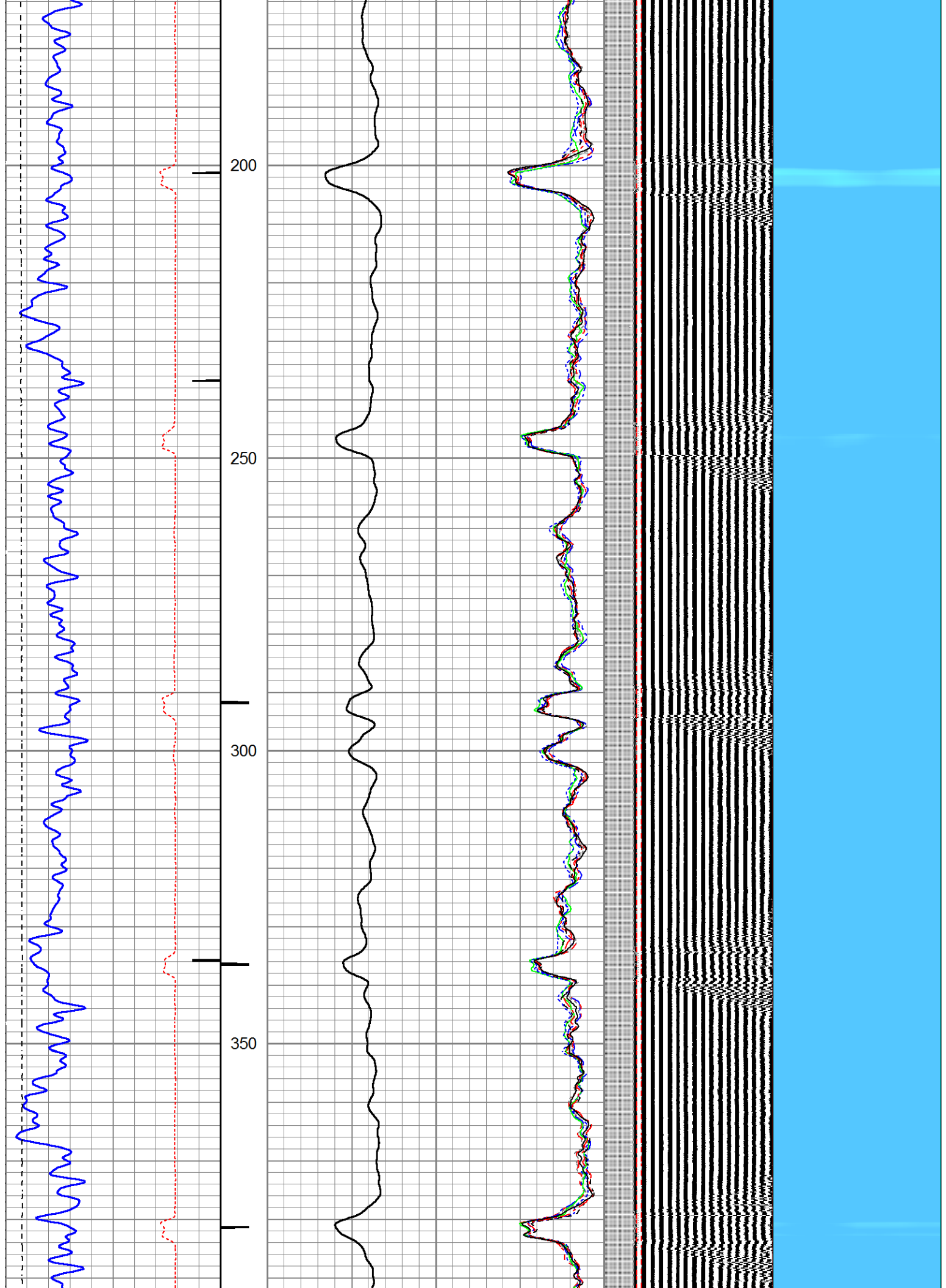
341 Travel Time (usec) 241
0 Gamma Ray (GAPI) 200
0 Line Tension (lb) 4000

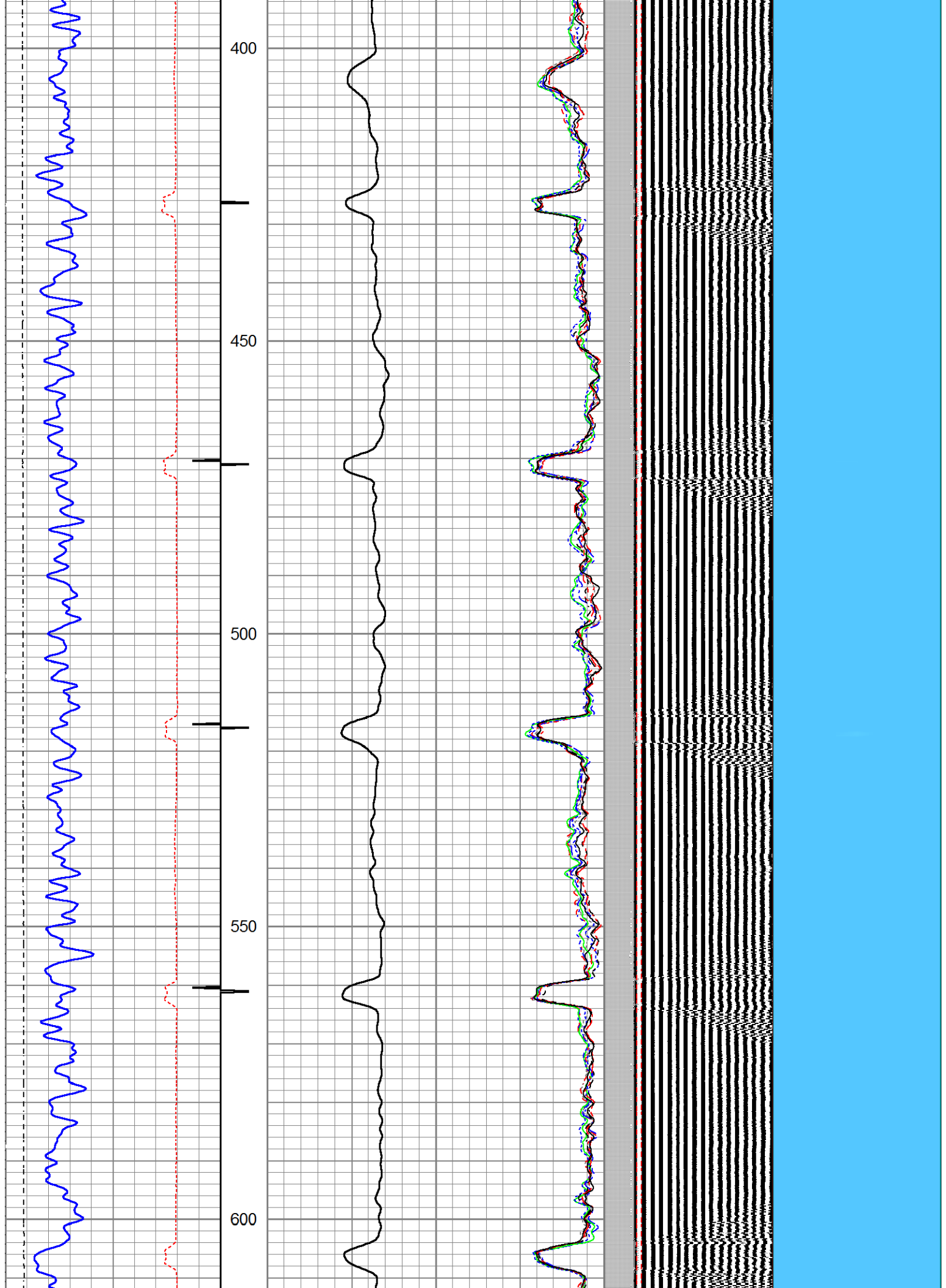
CCL

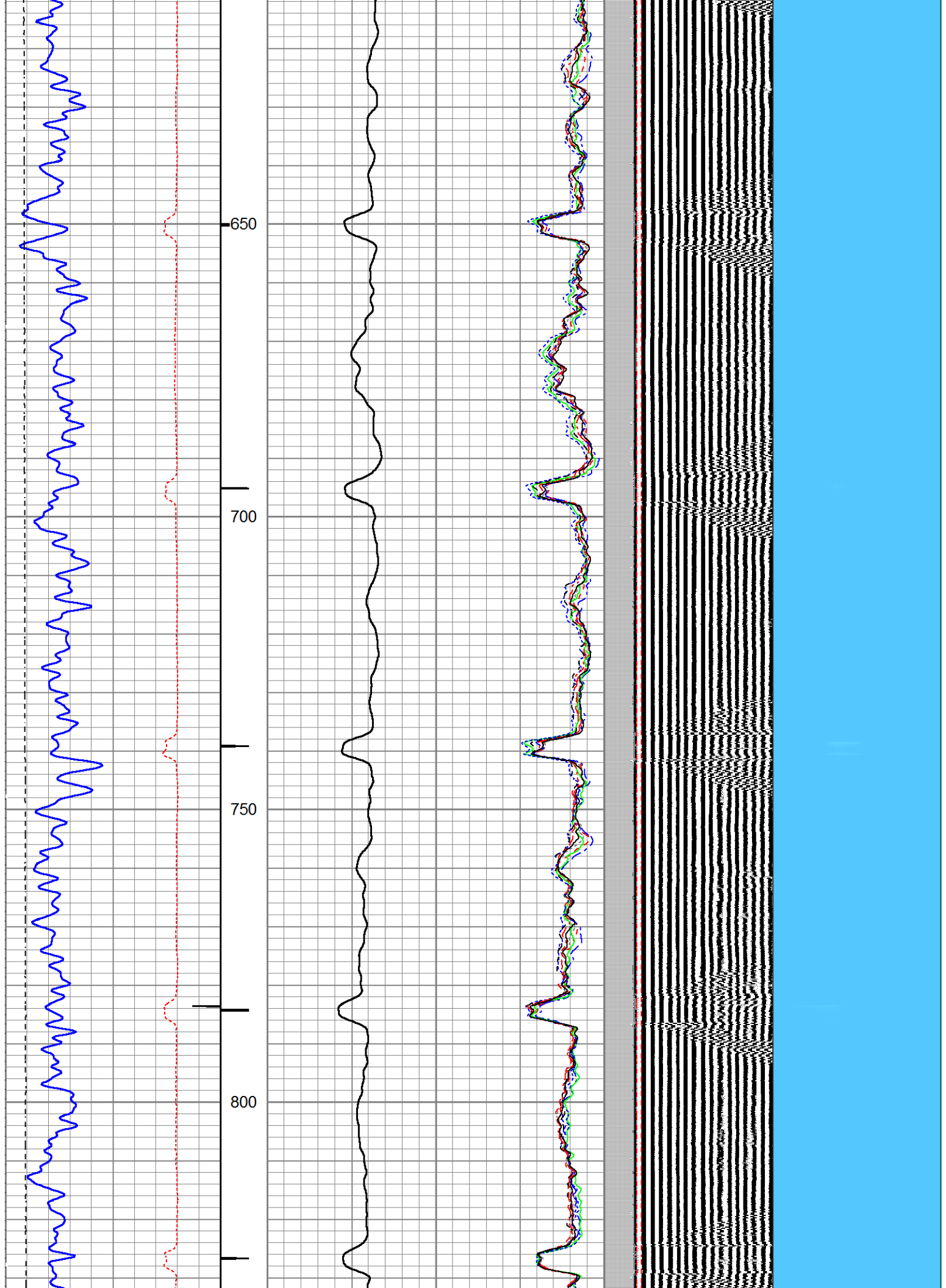
0	Amplitude (mV)	100	-5	AMPS8	150
	Amplified Amplitude		-5	AMPS7	150
0	(mV)	10	-5	AMPS6	150
			-5	AMPS5	150
			-5	AMPS4	150
			-5	AMPS3	150
			-5	AMPS2	150
			-5	AMPS1	150

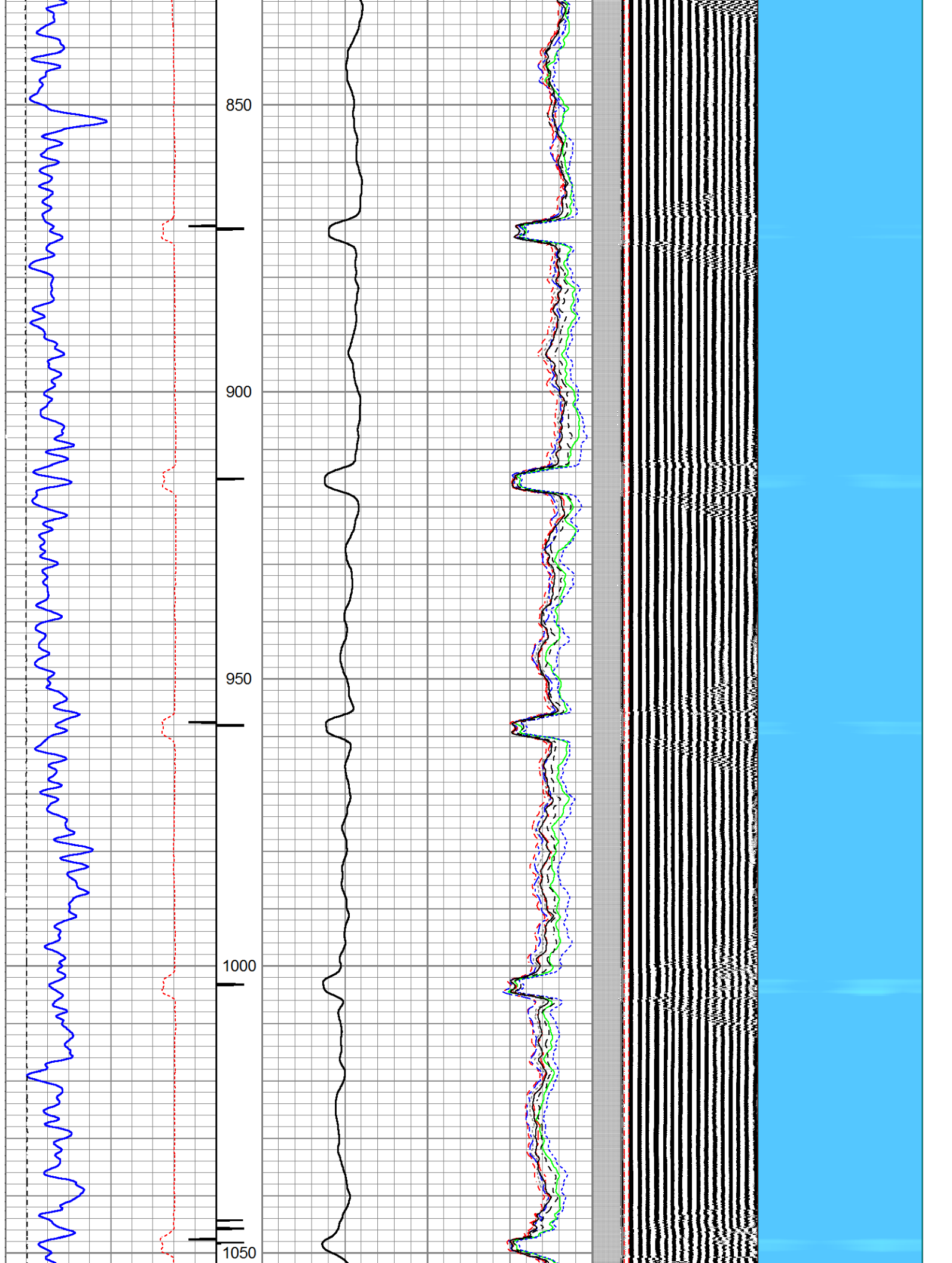
200 VDL 1200
1 80
Free Pipe Gate

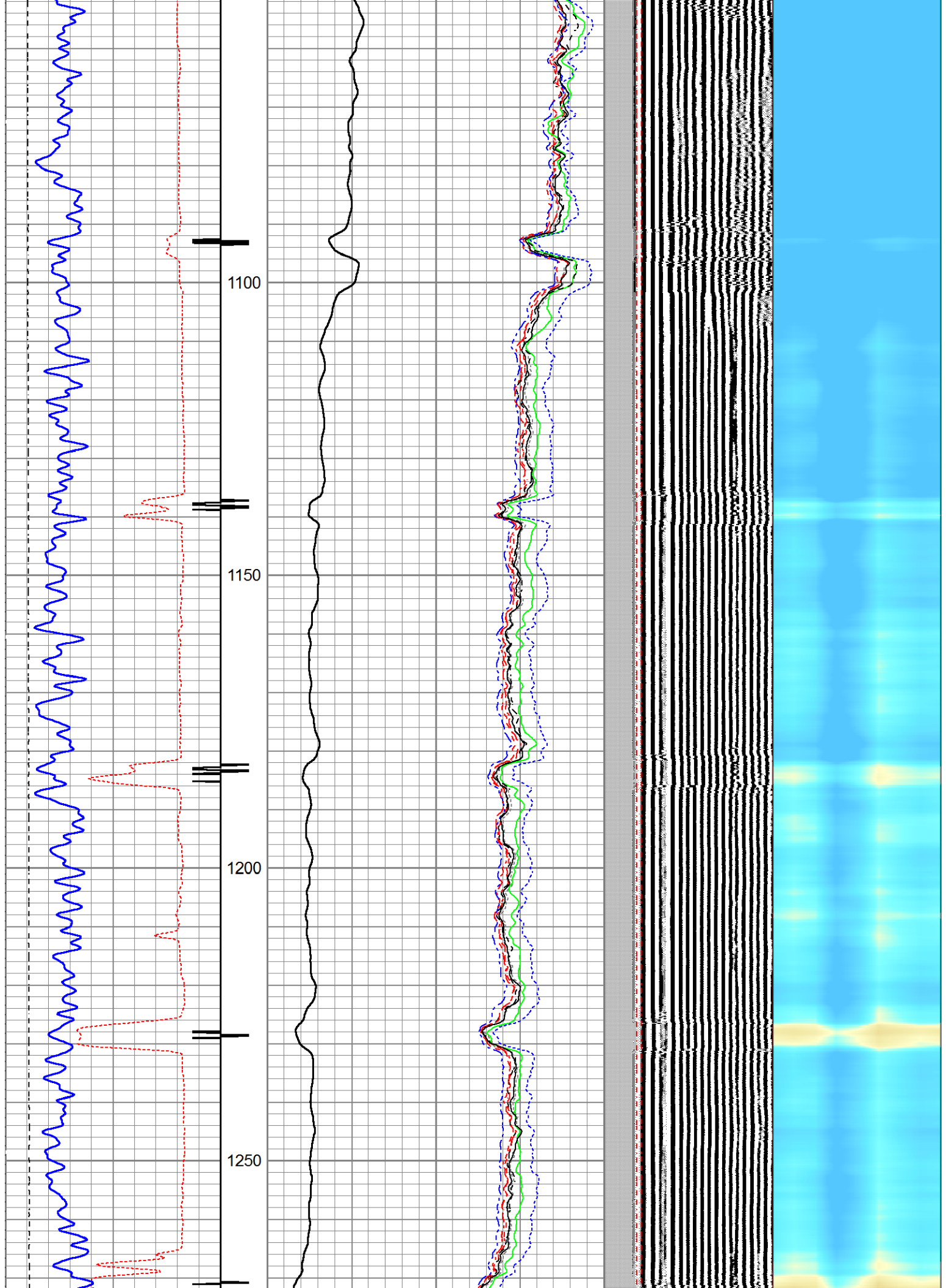


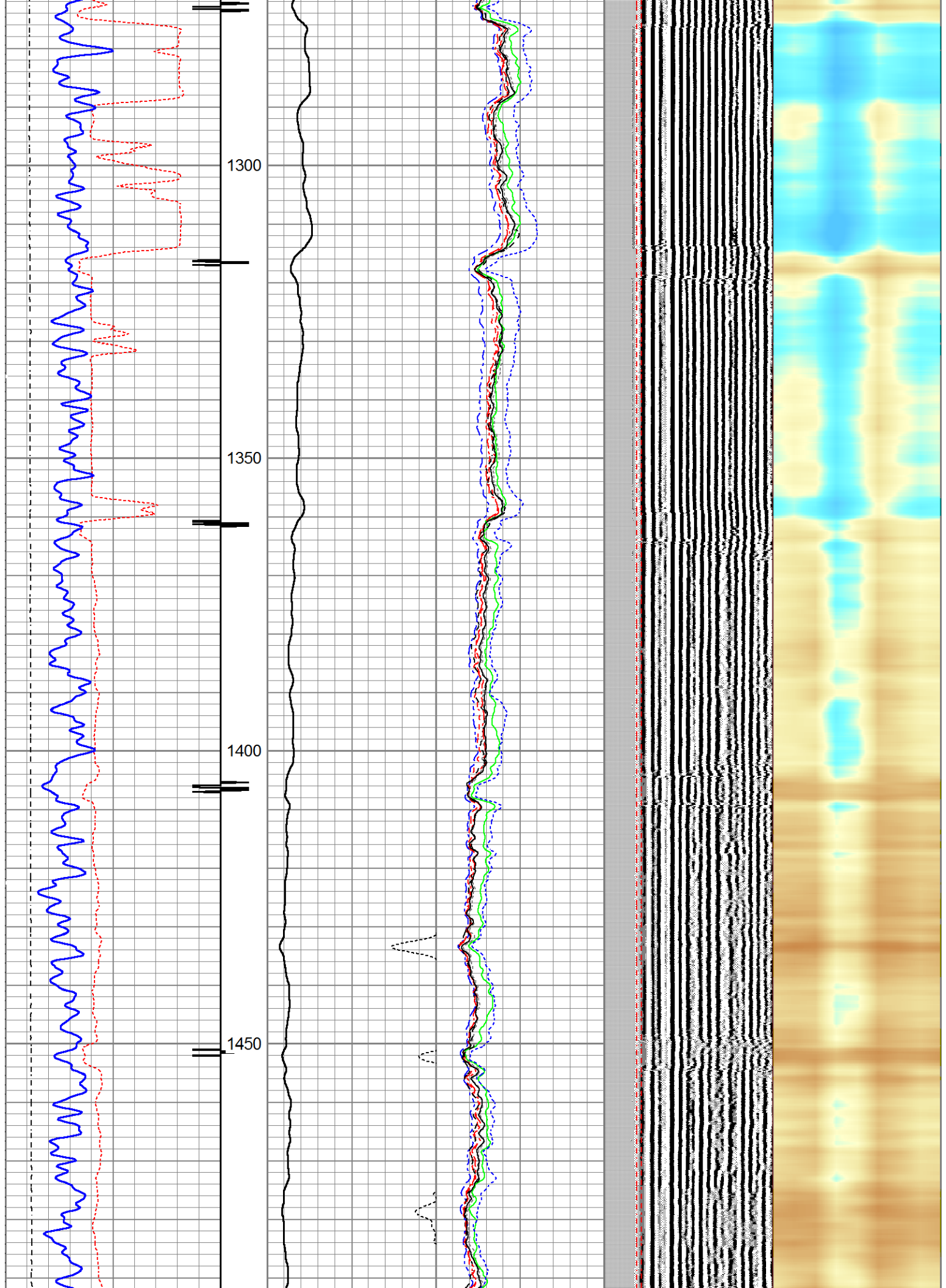


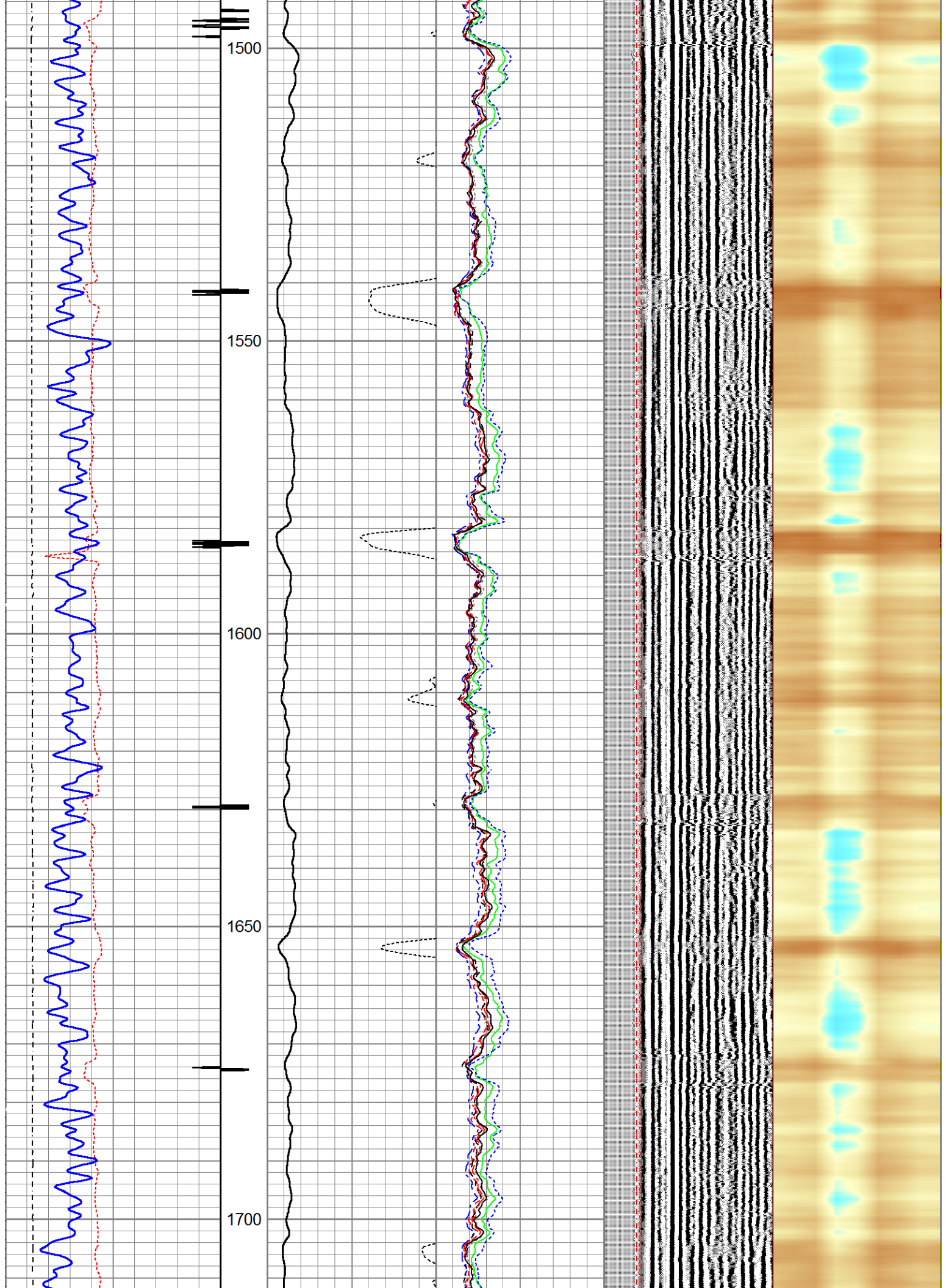


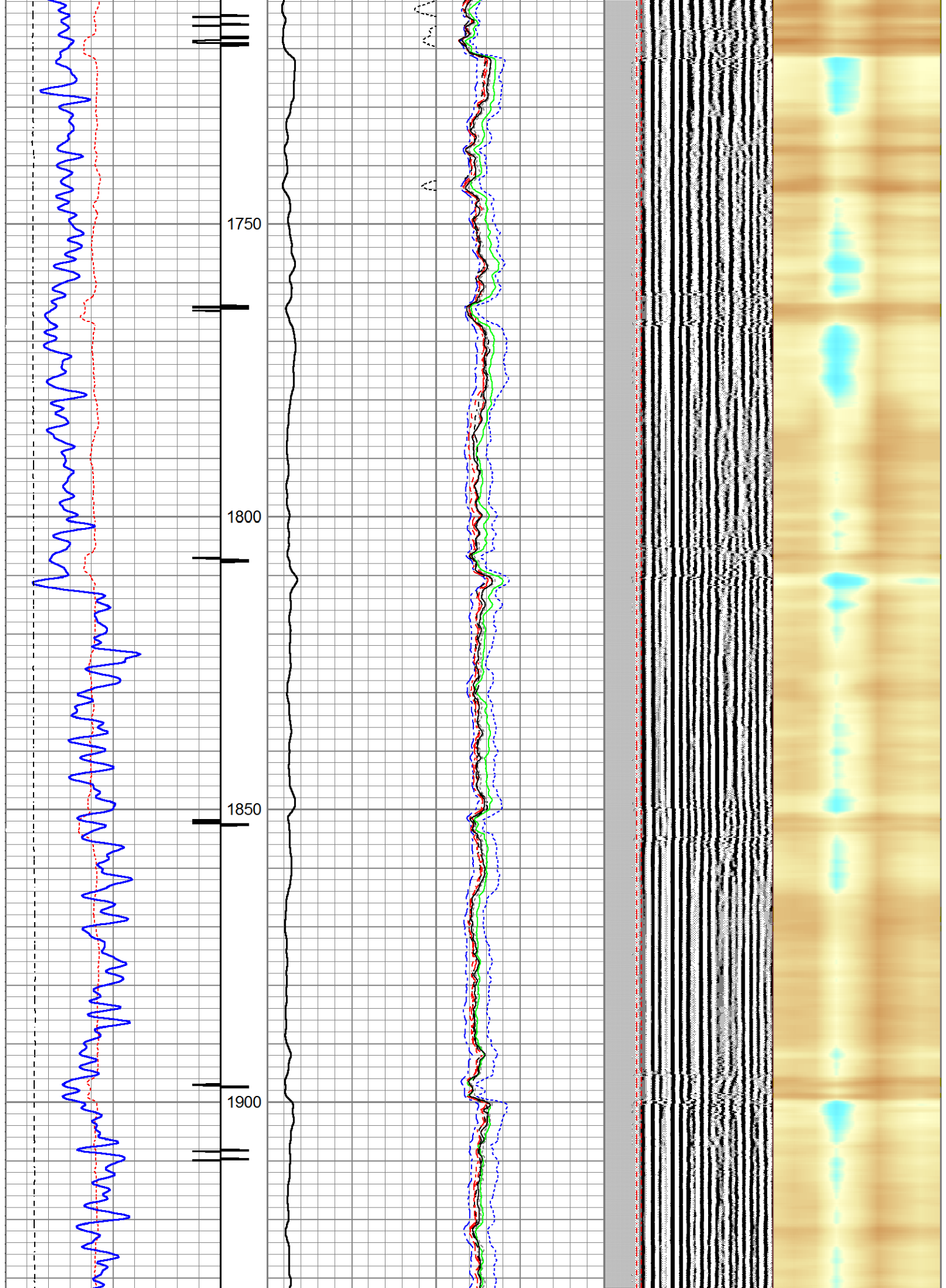


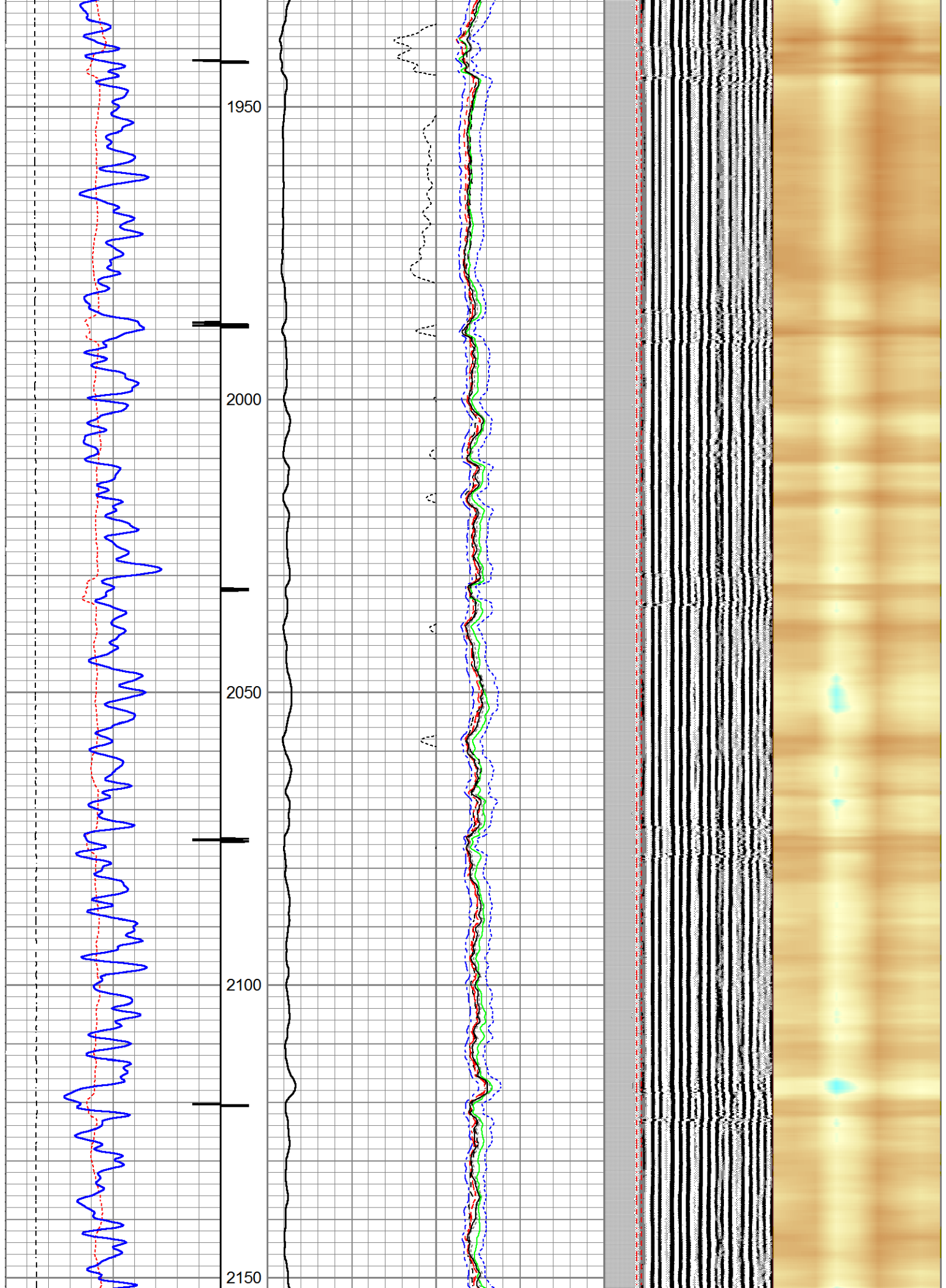


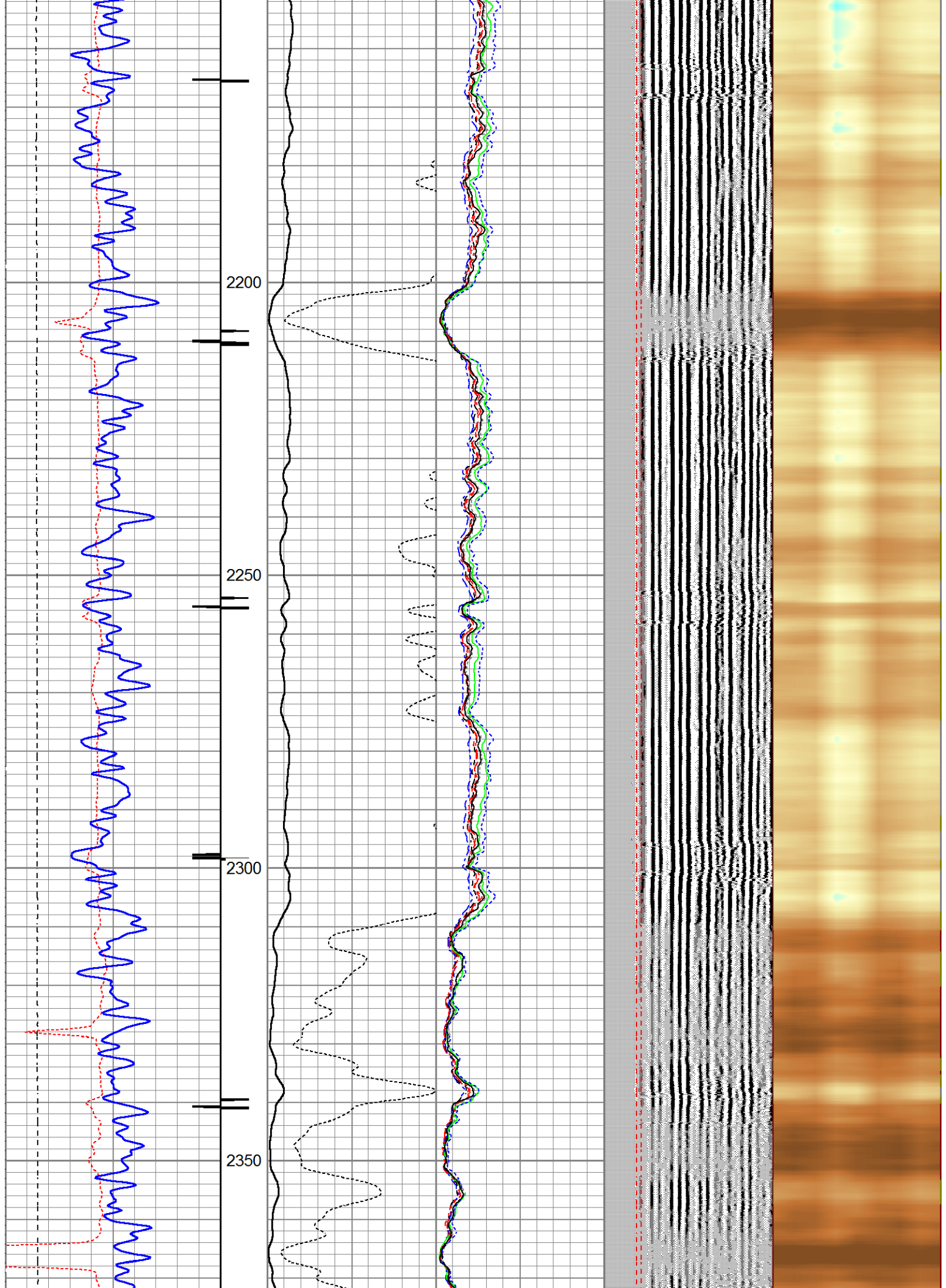


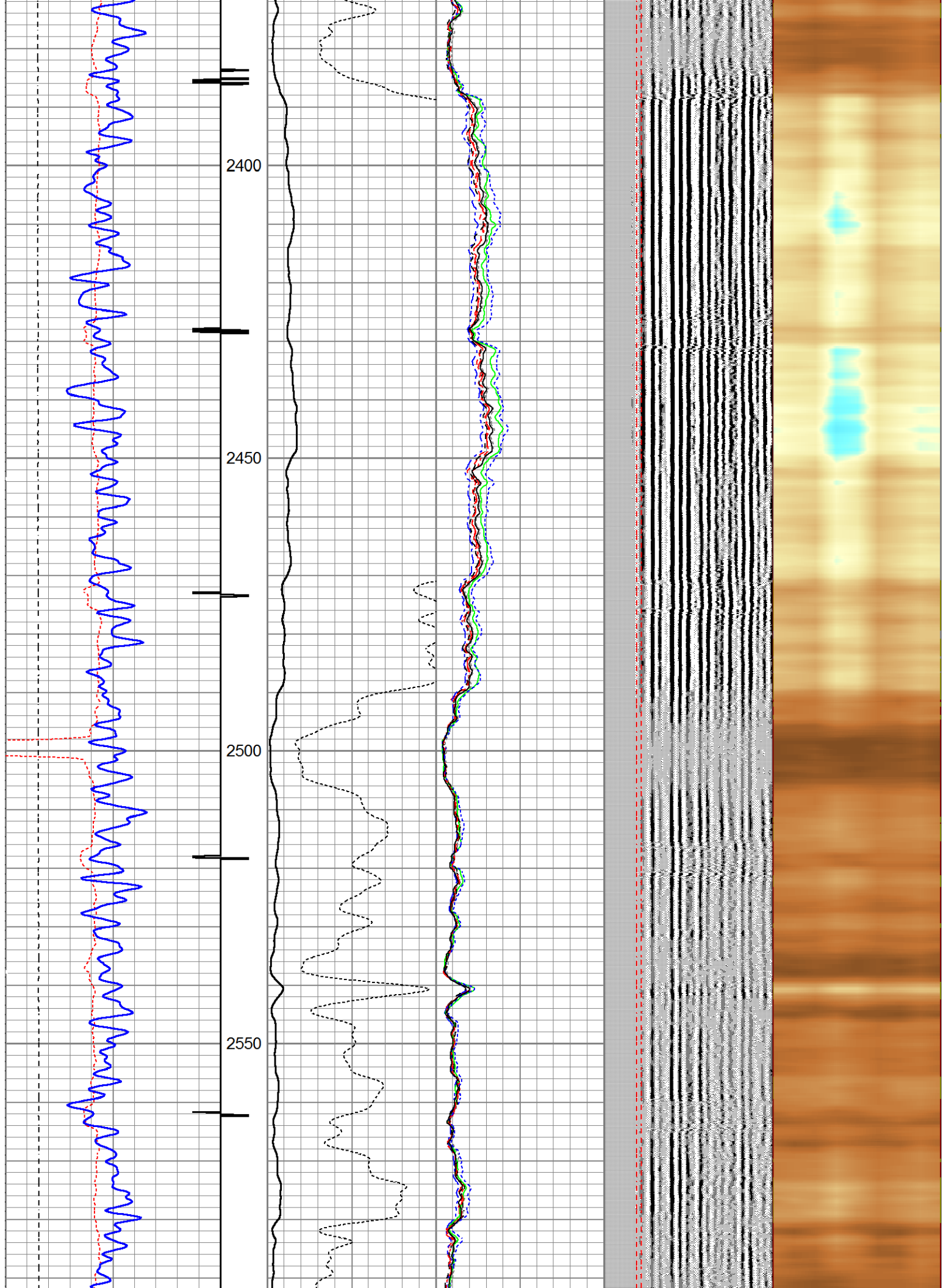


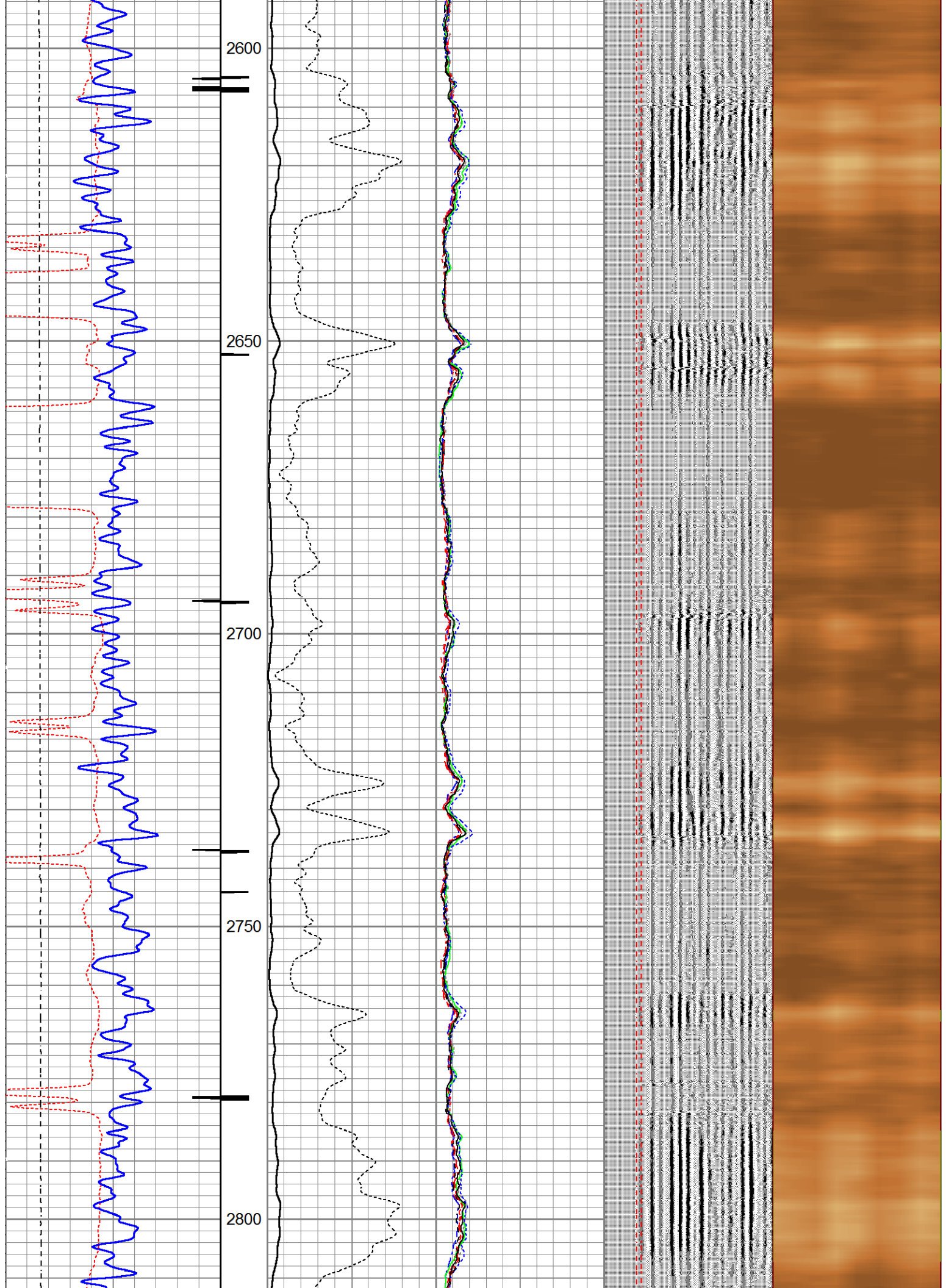


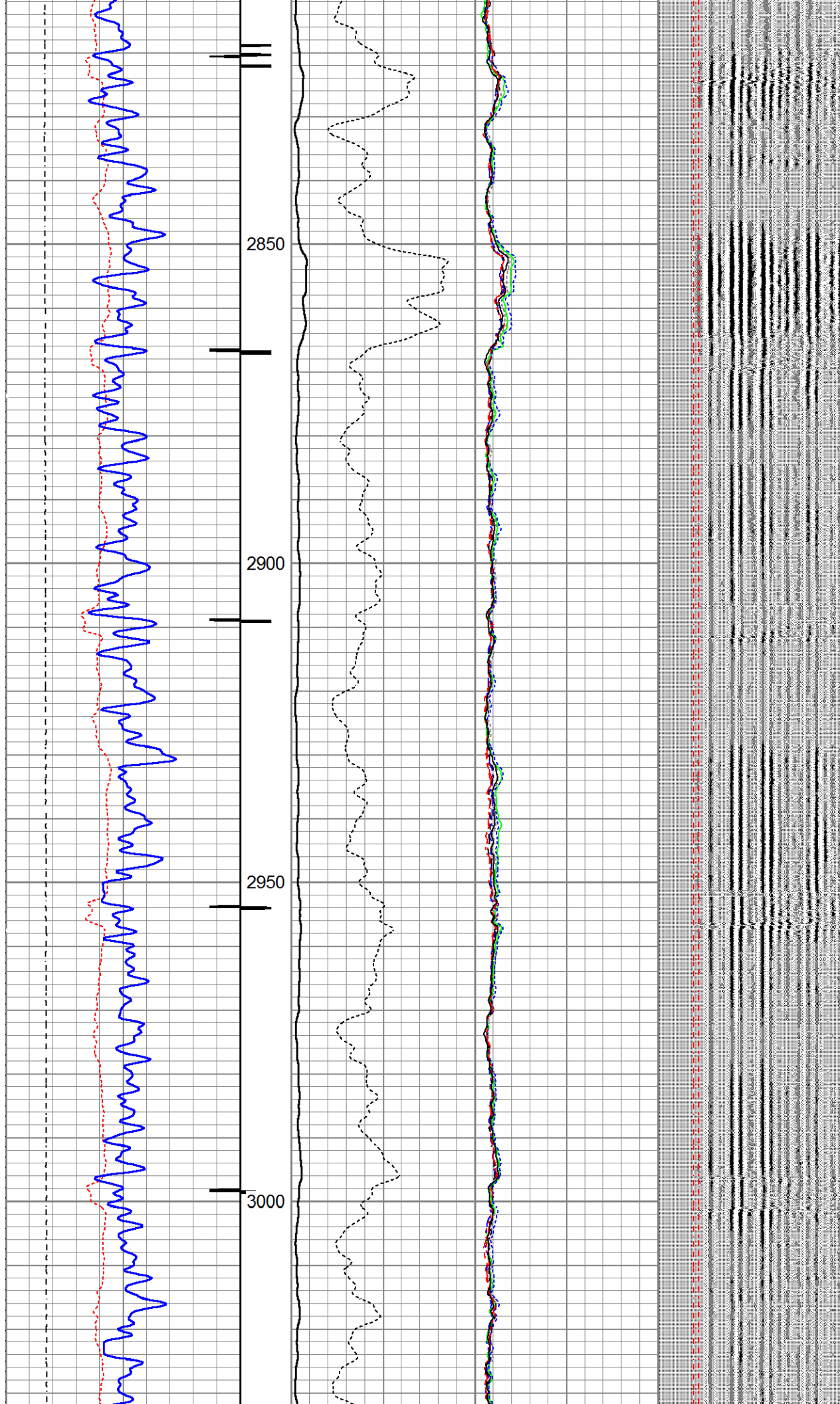


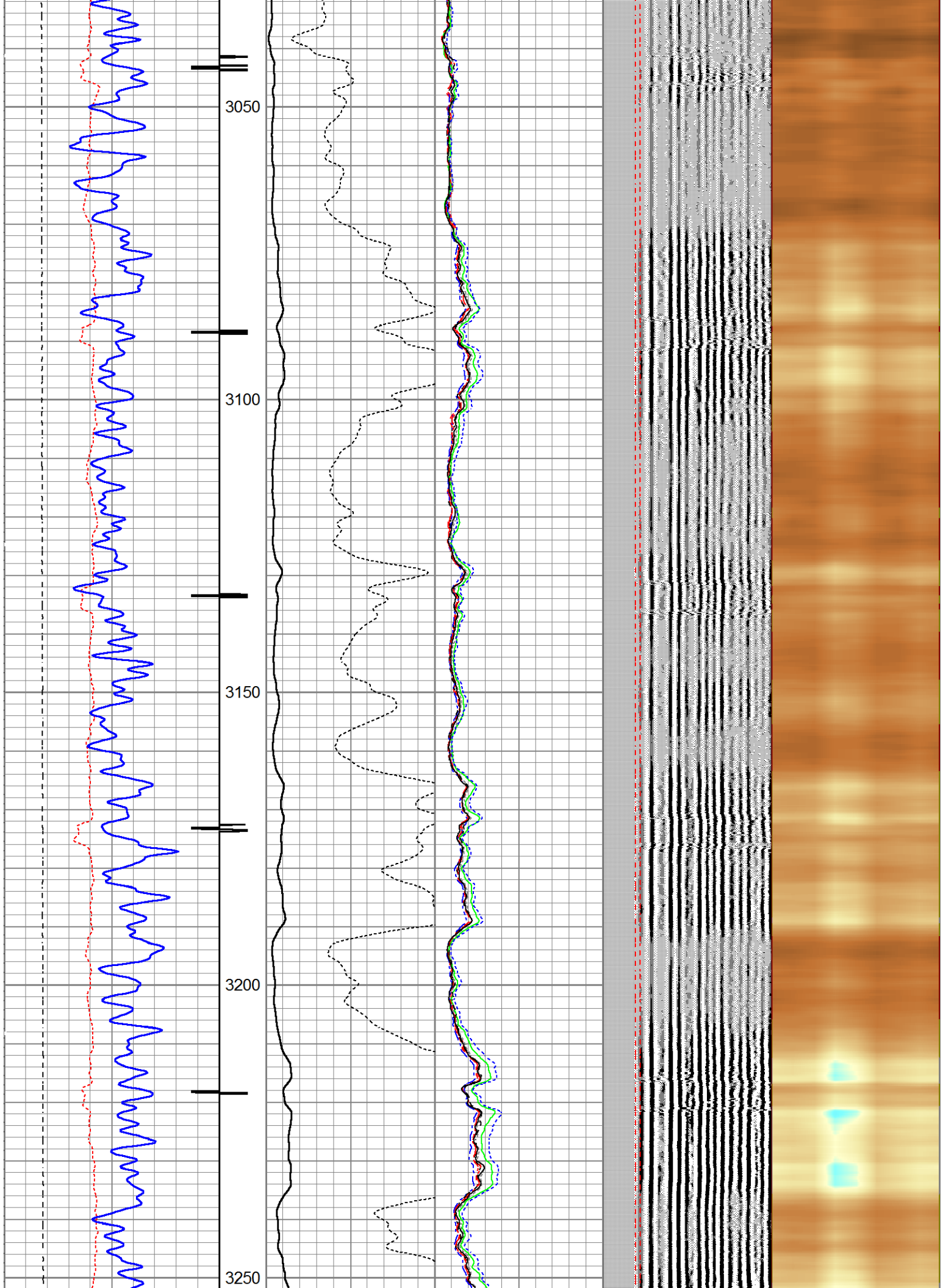


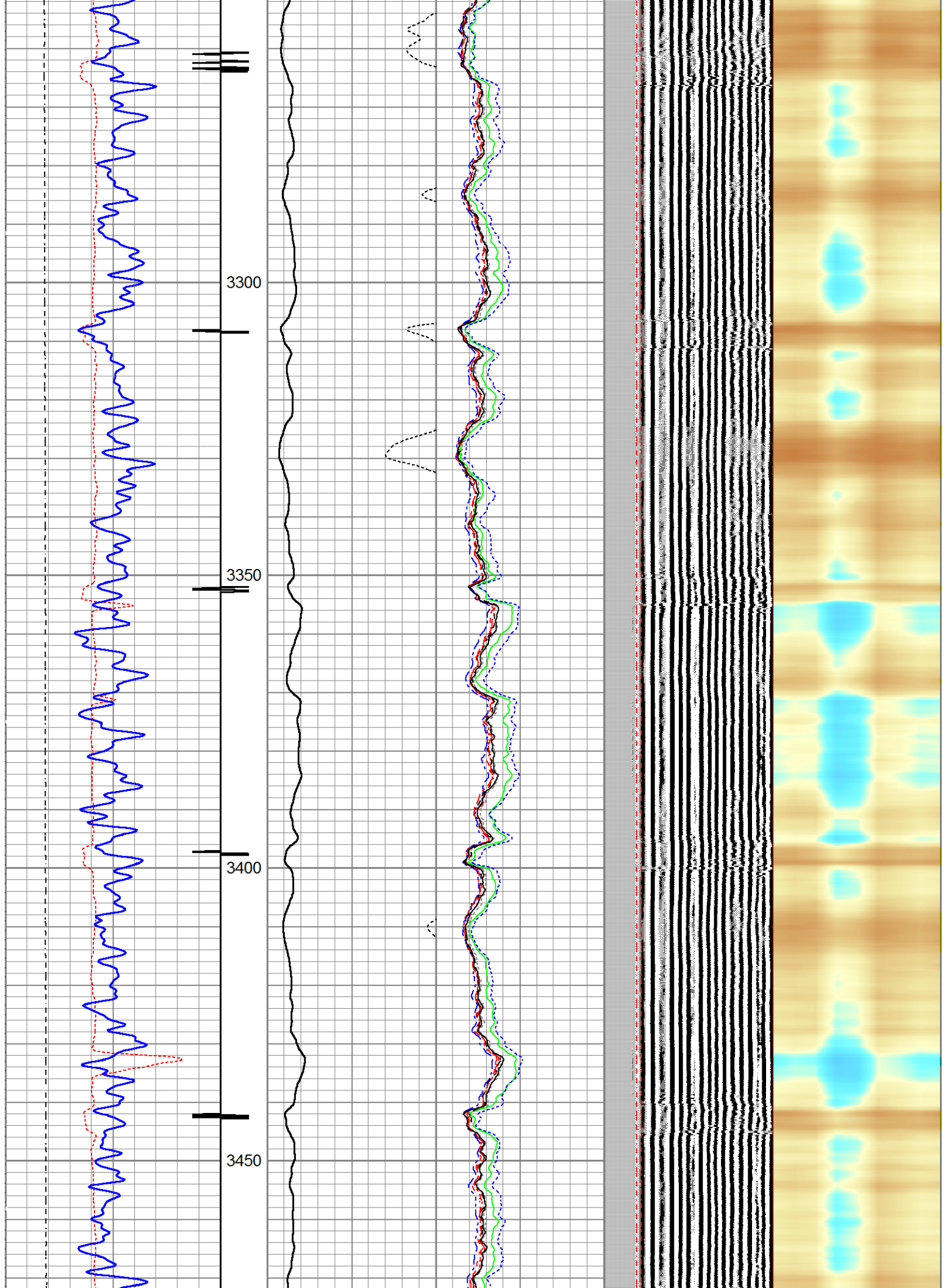


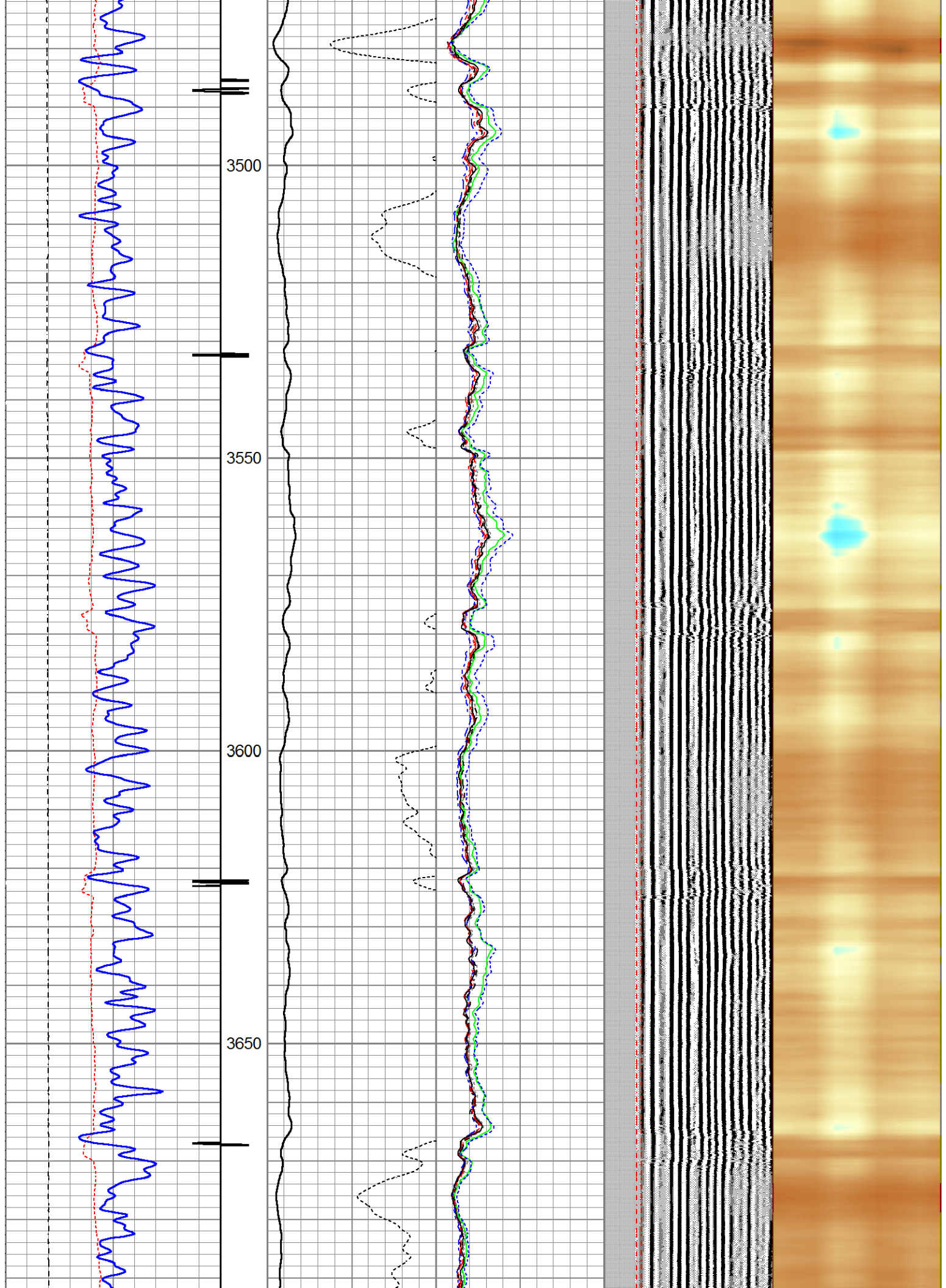


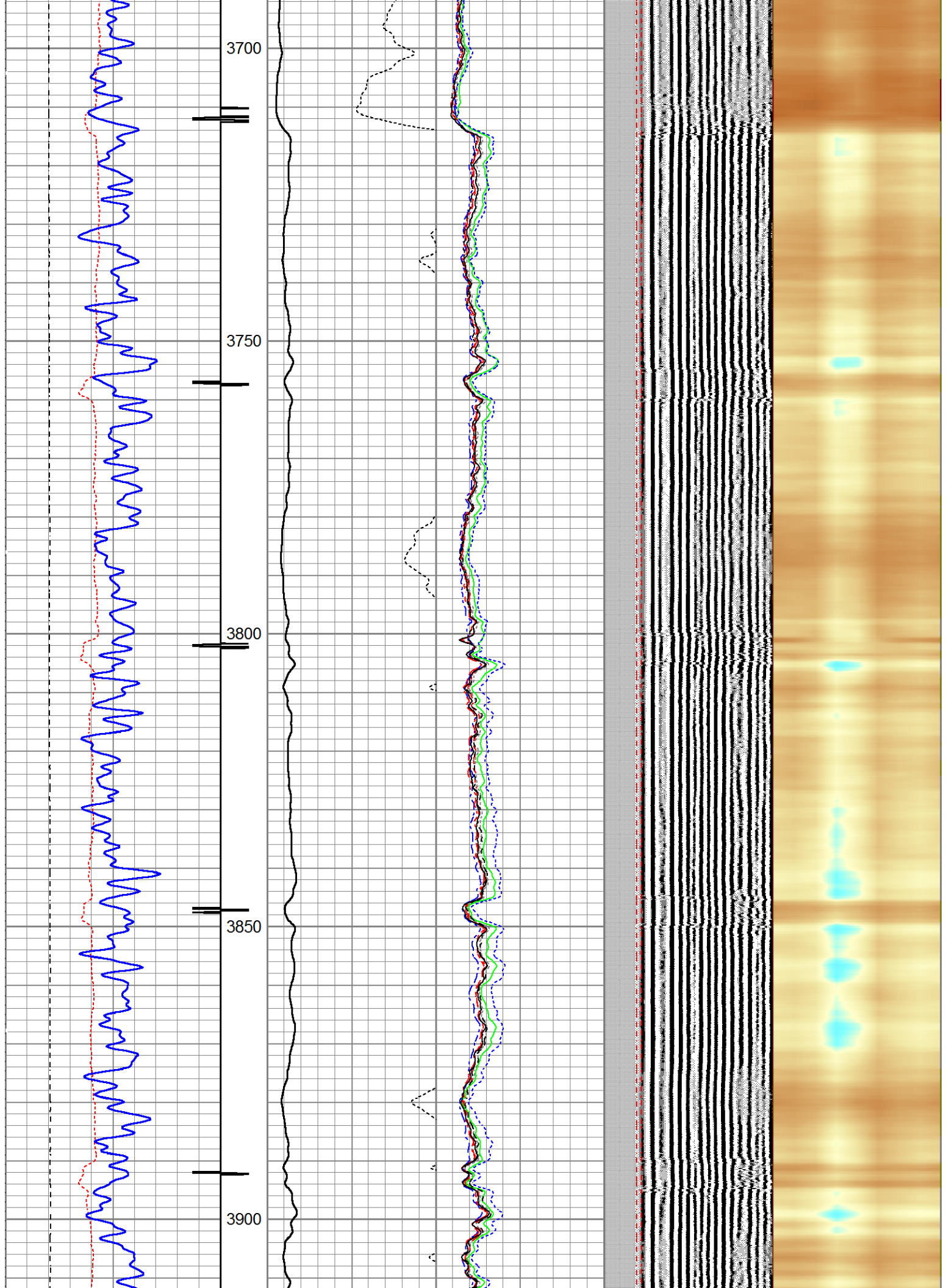


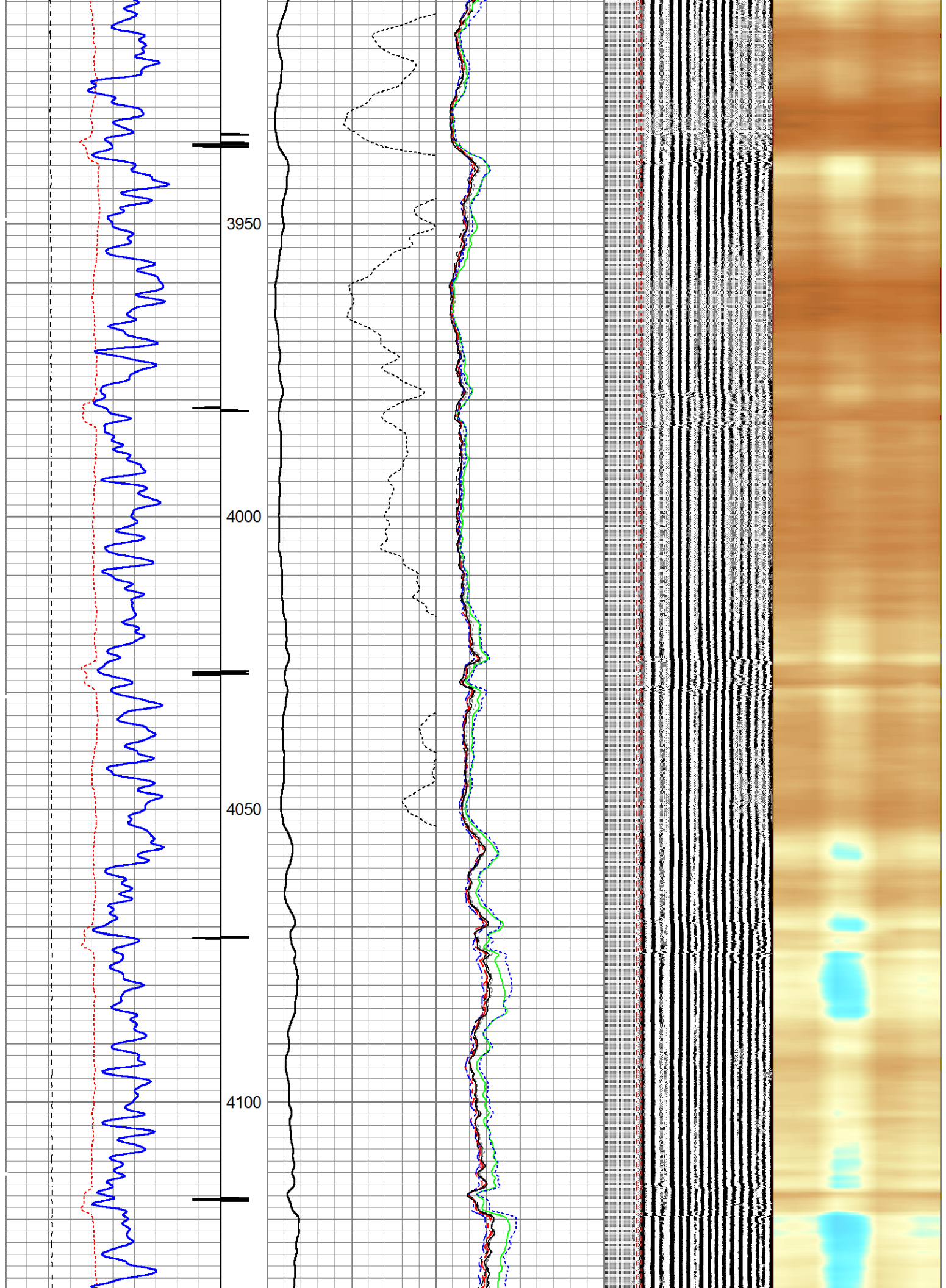


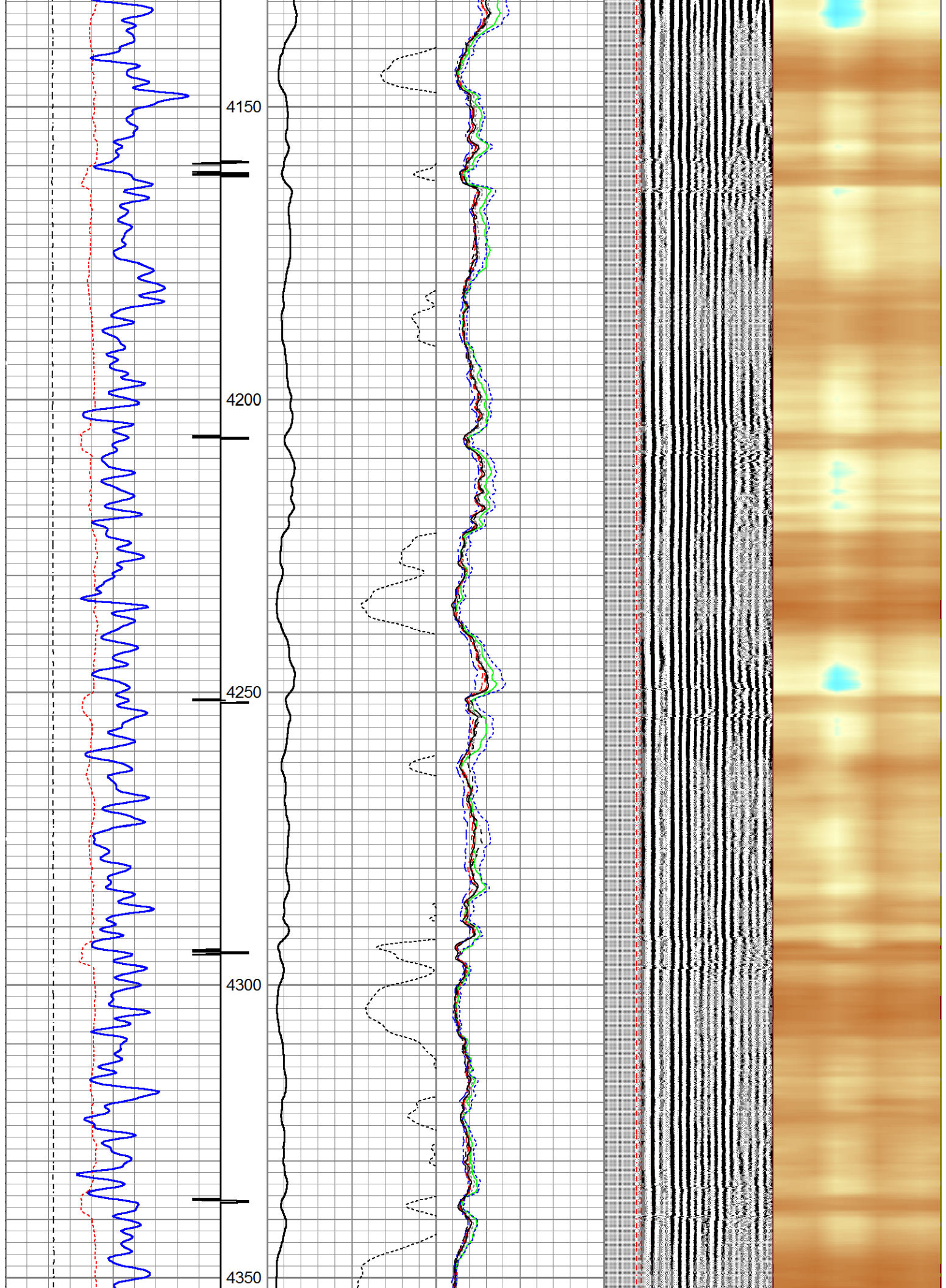


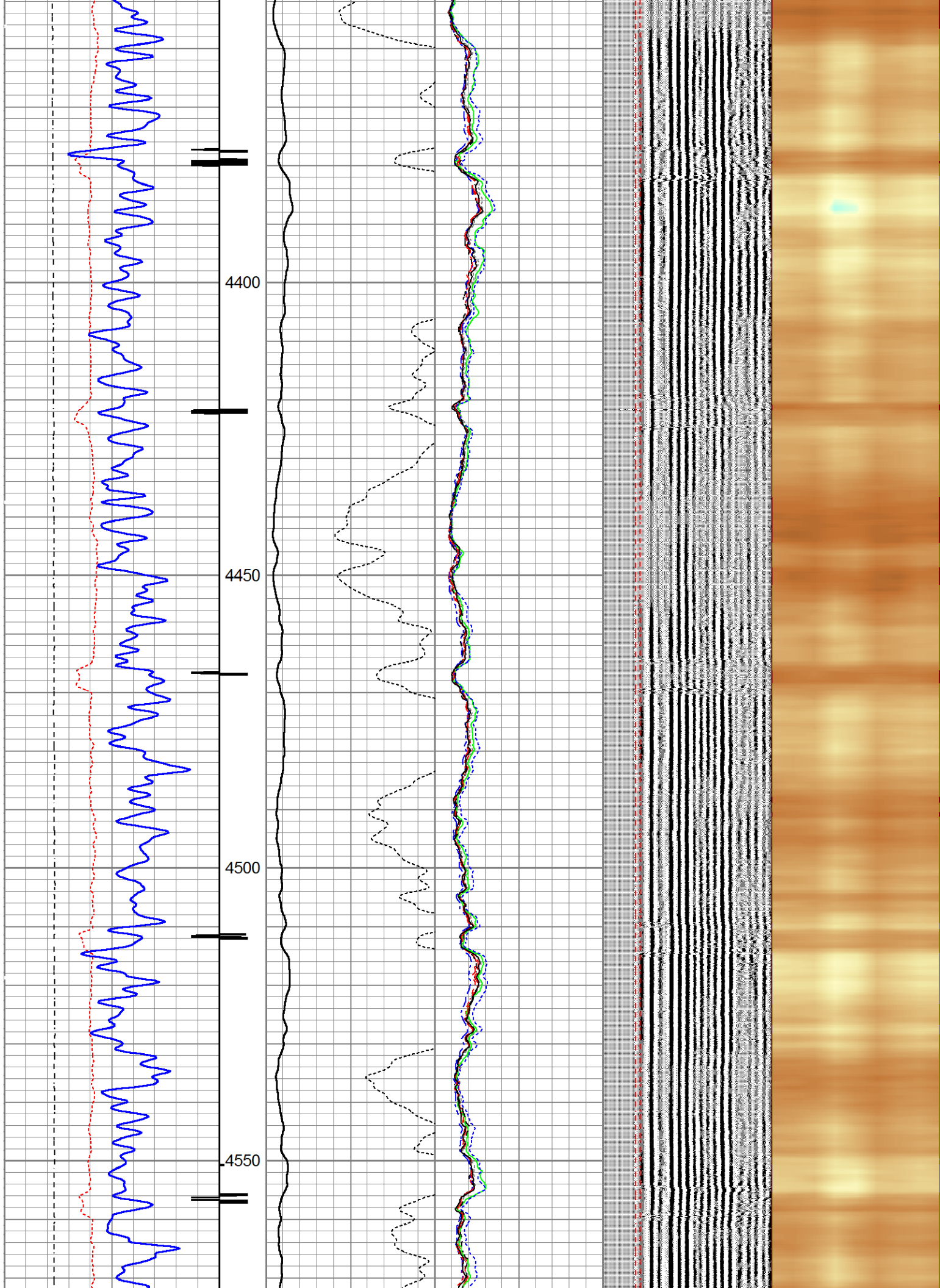


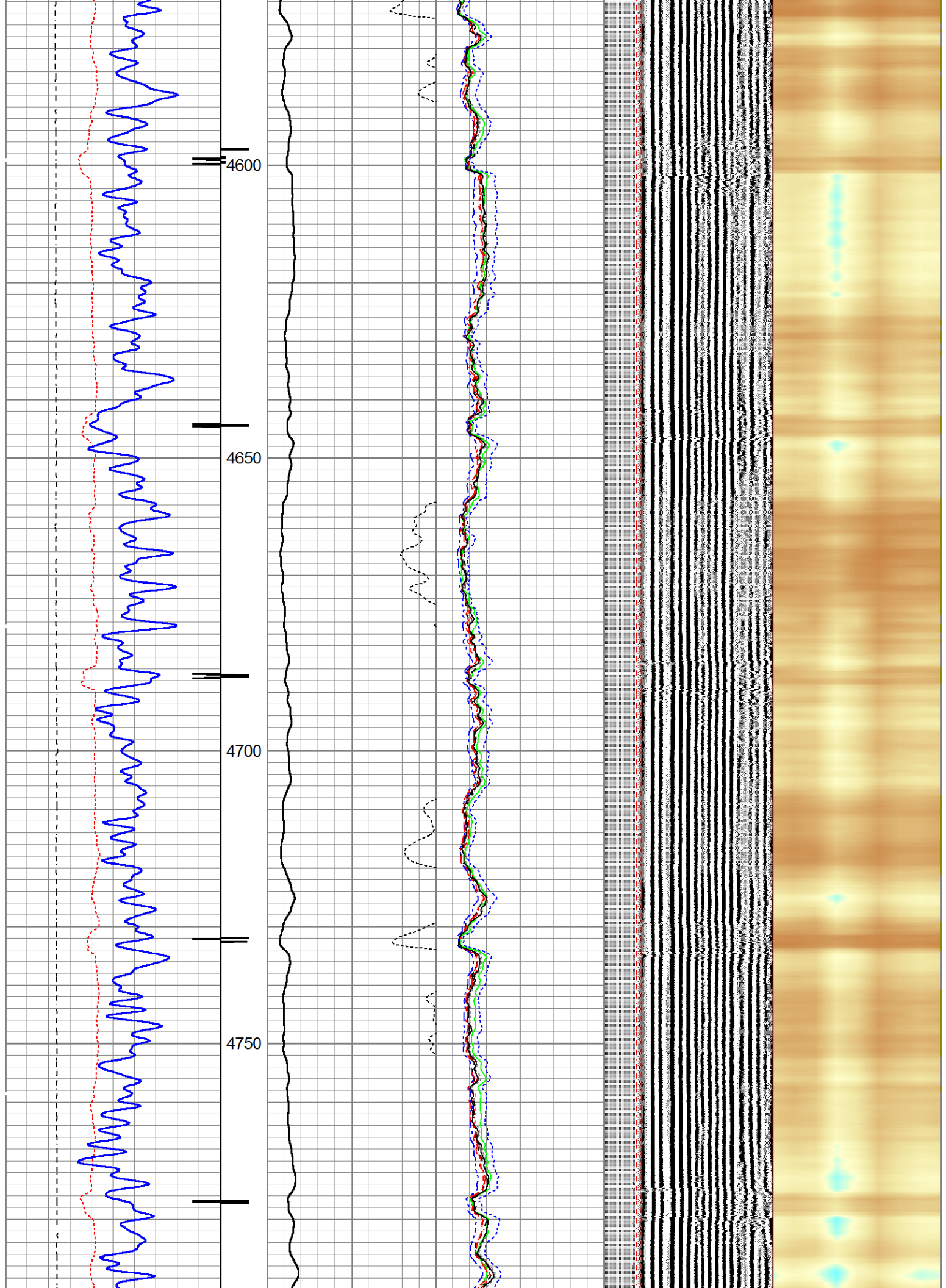


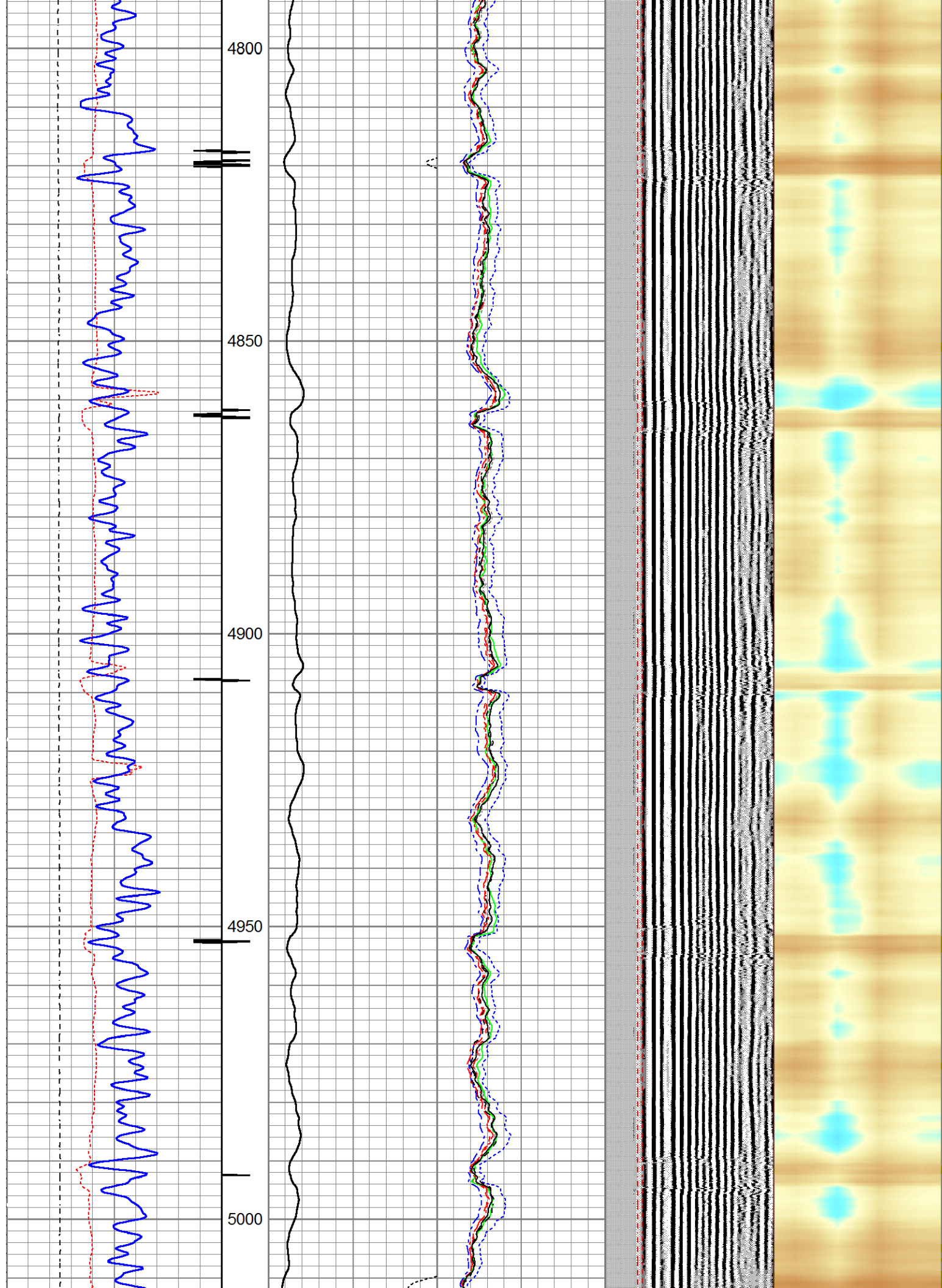


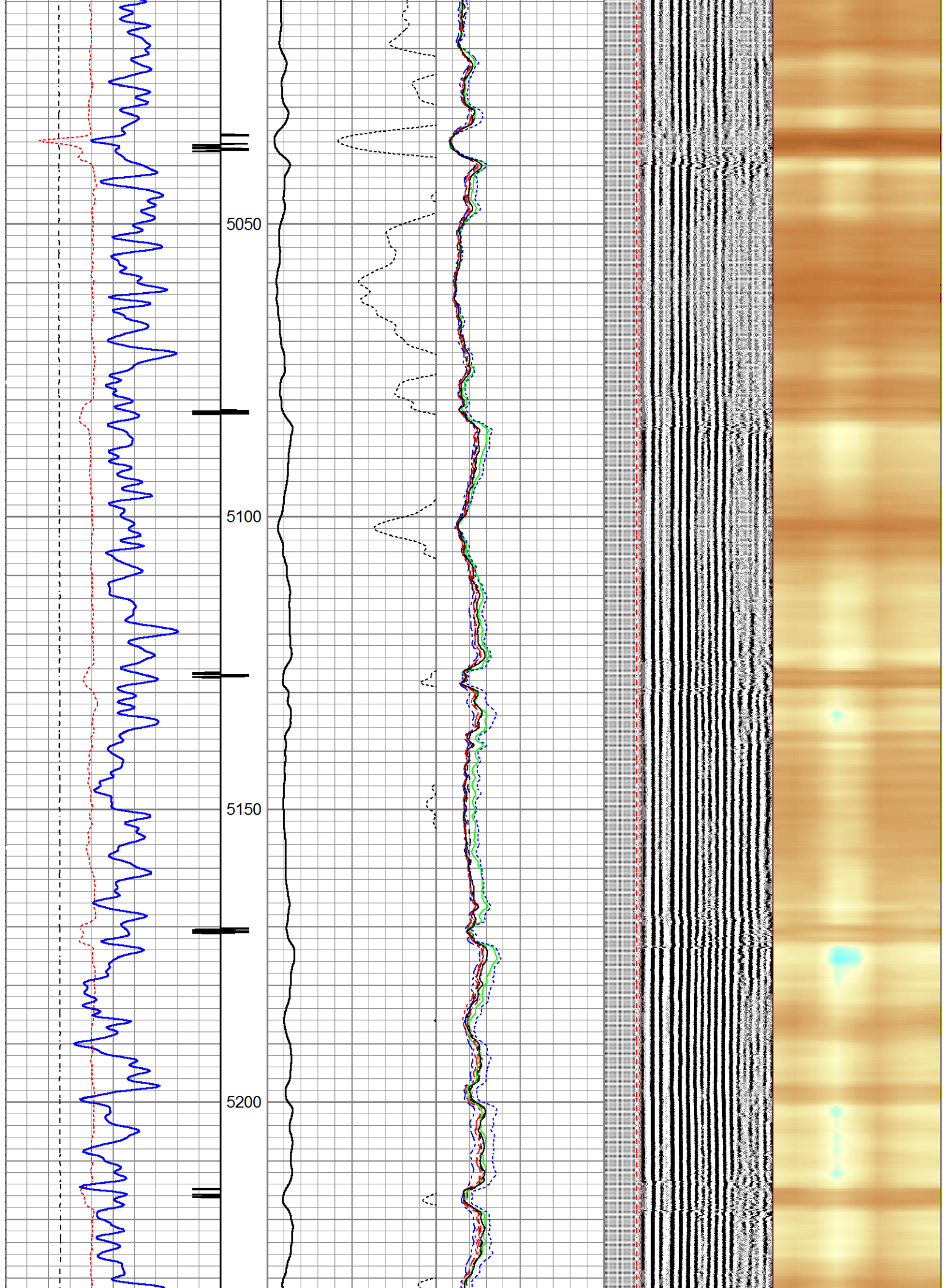


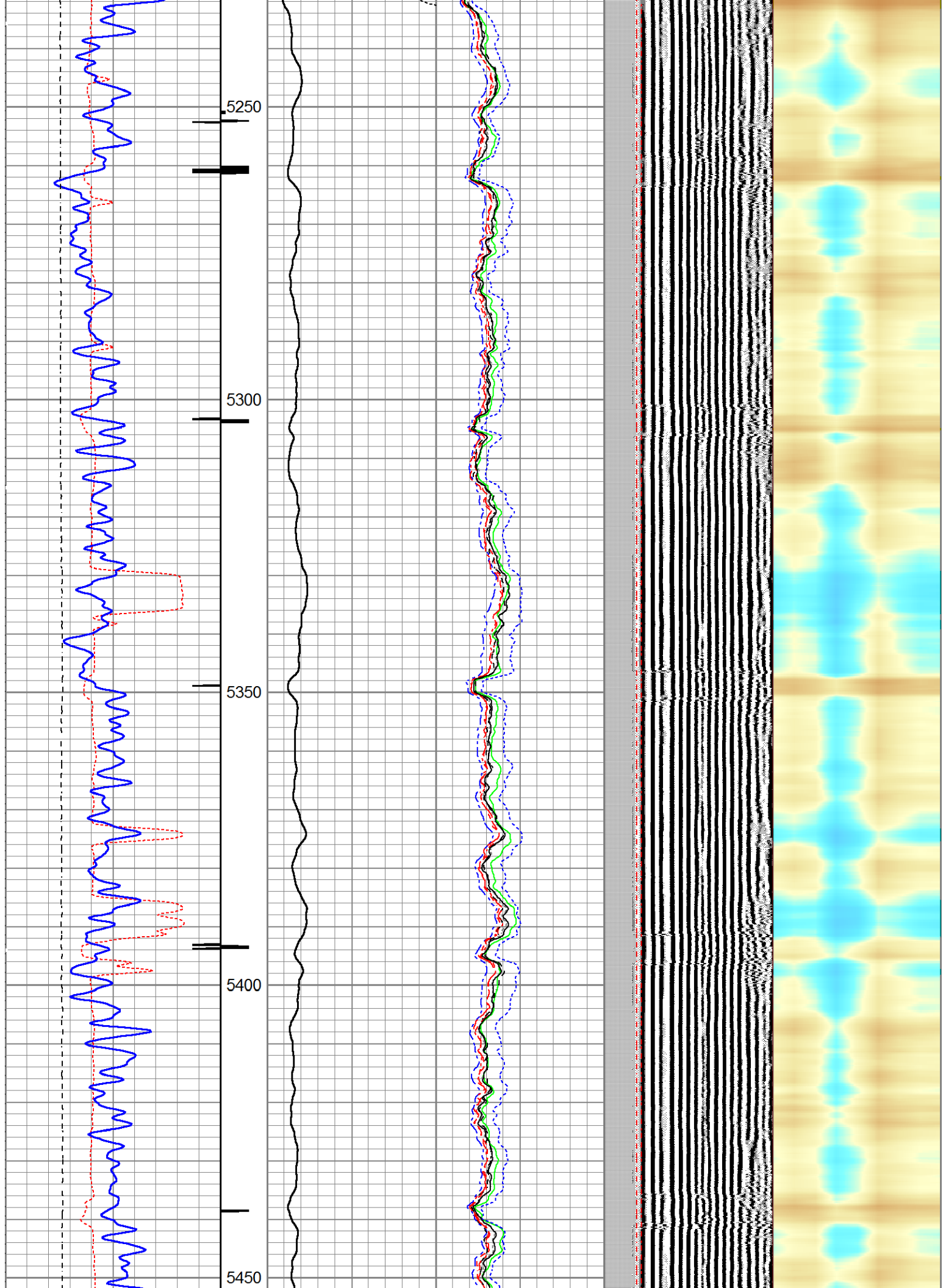


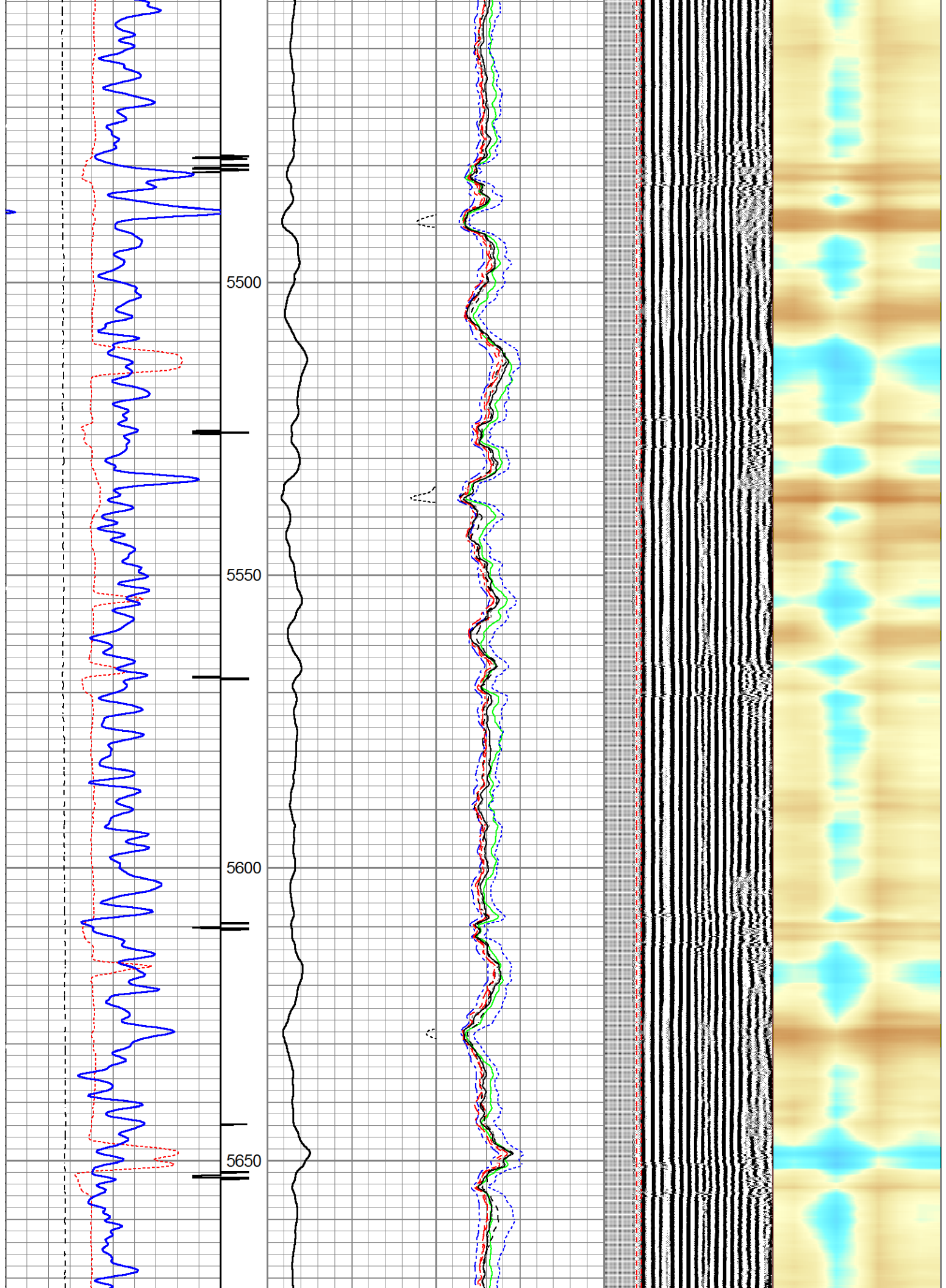


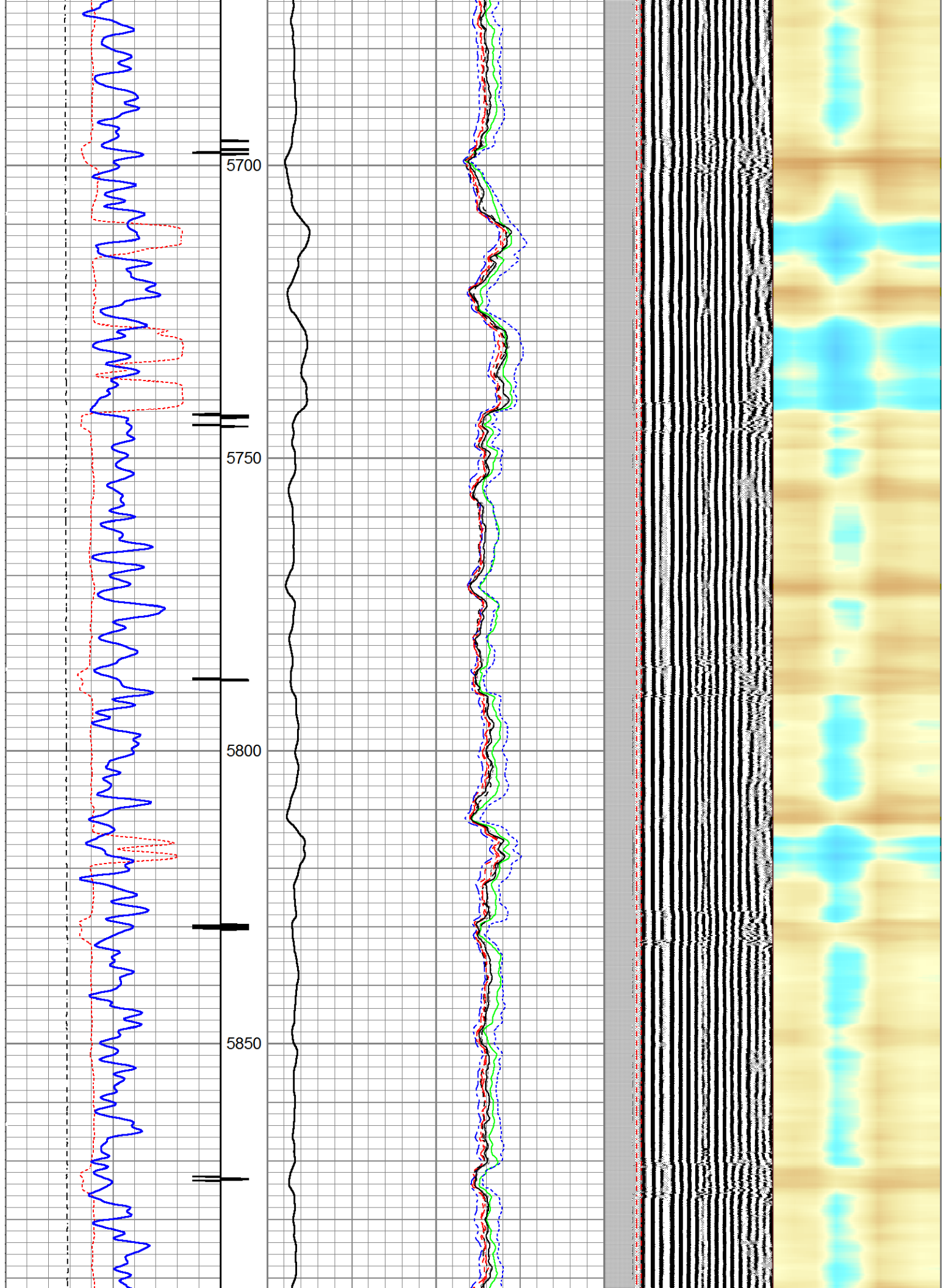


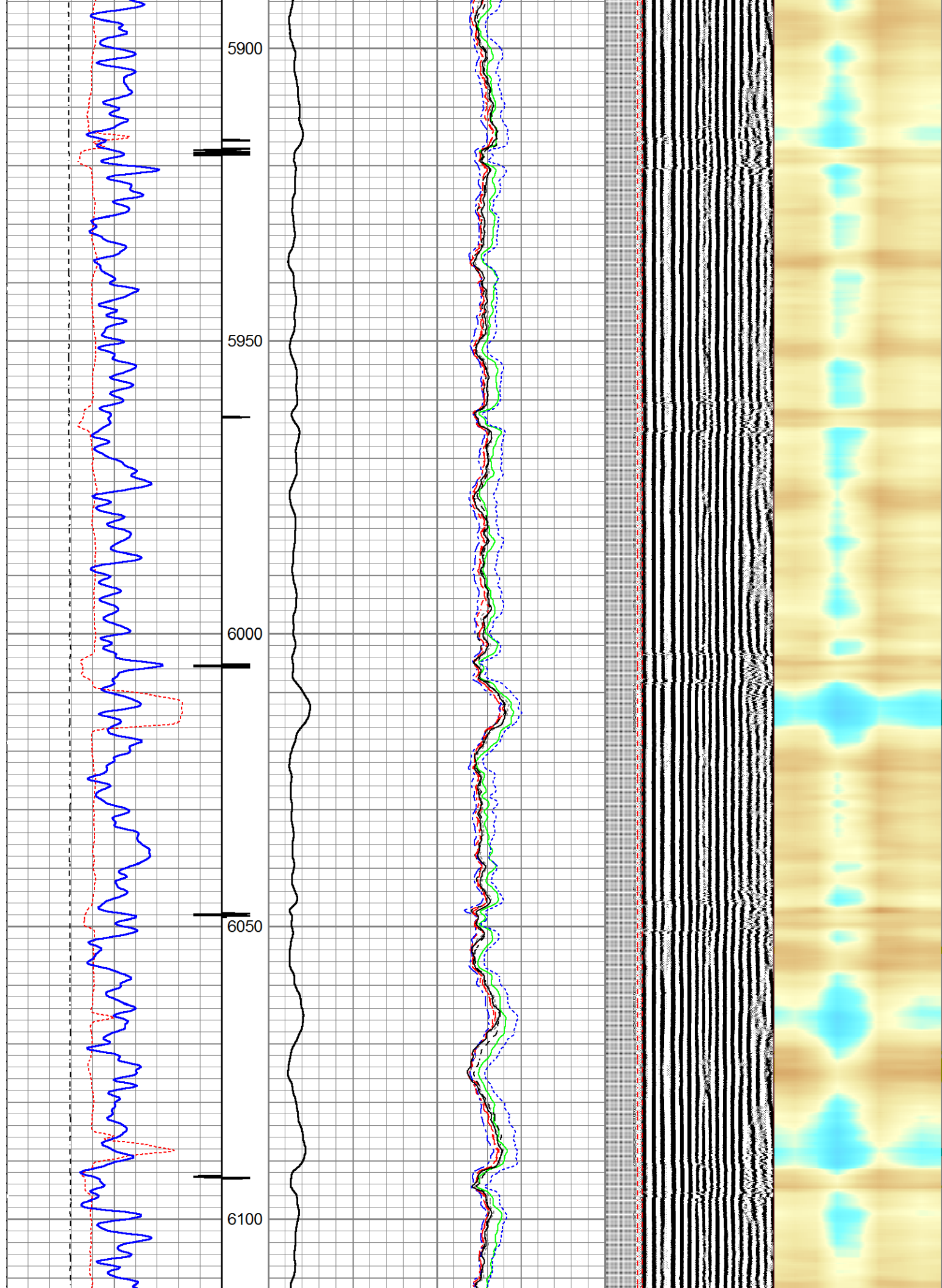


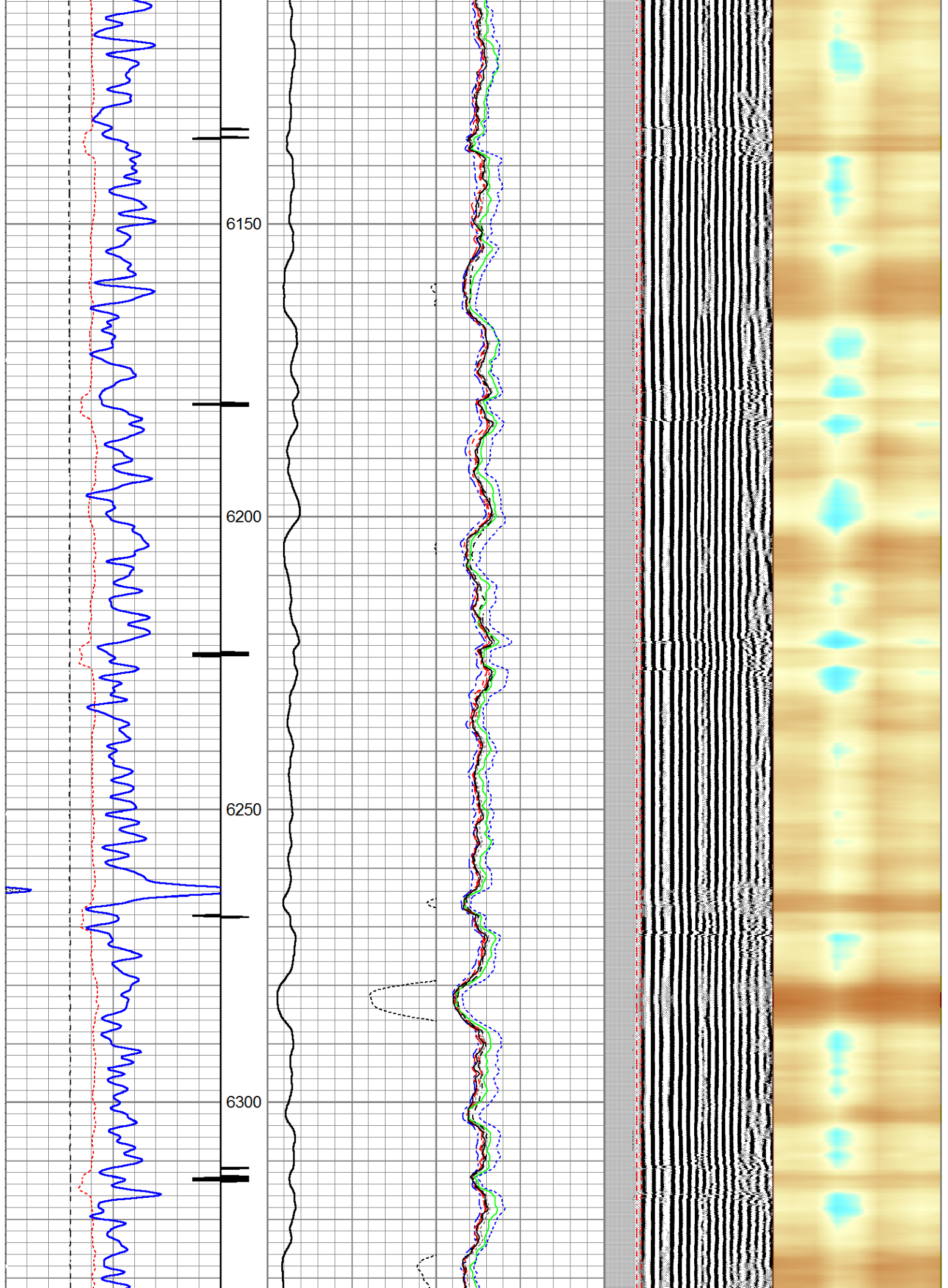


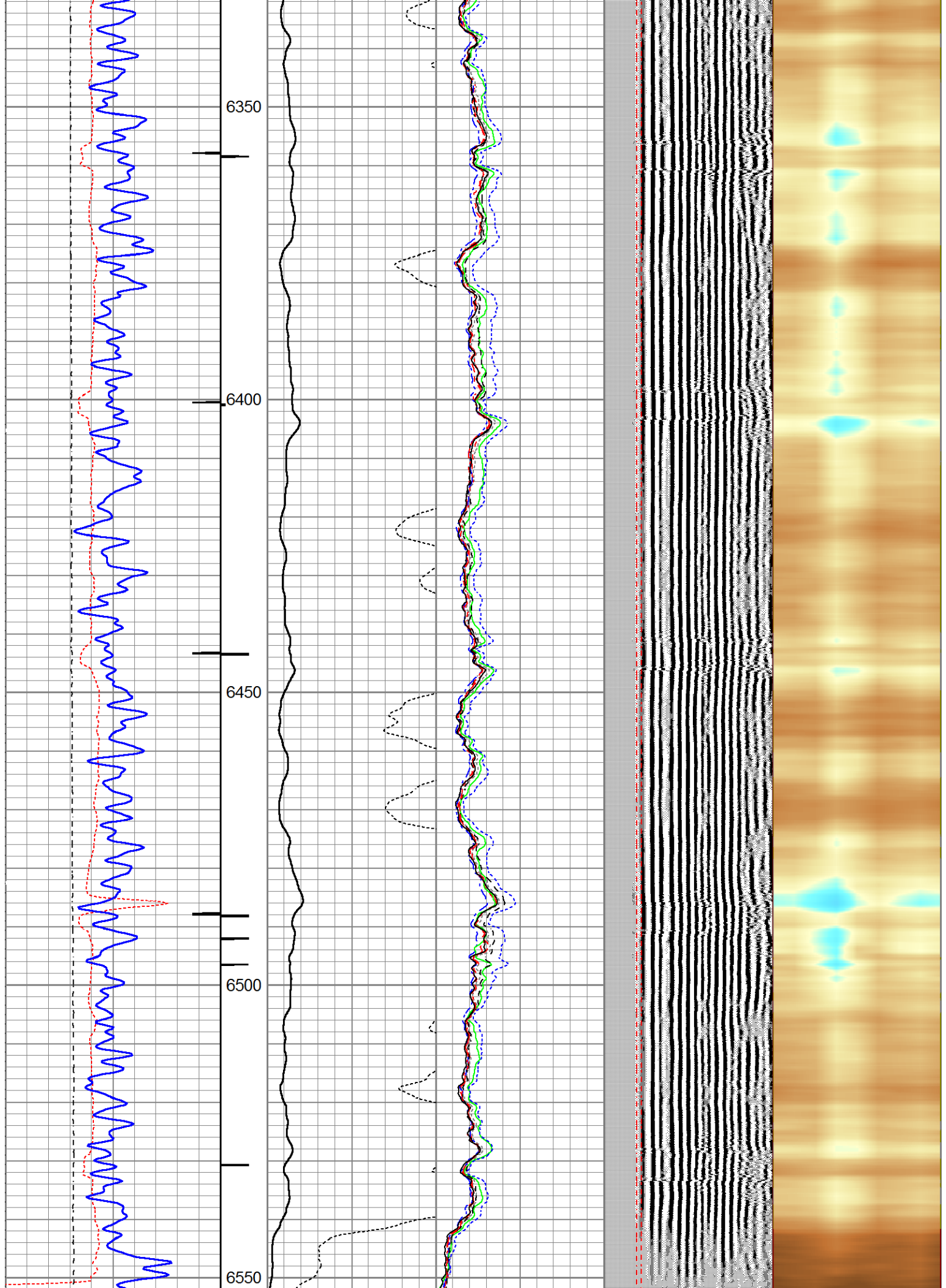


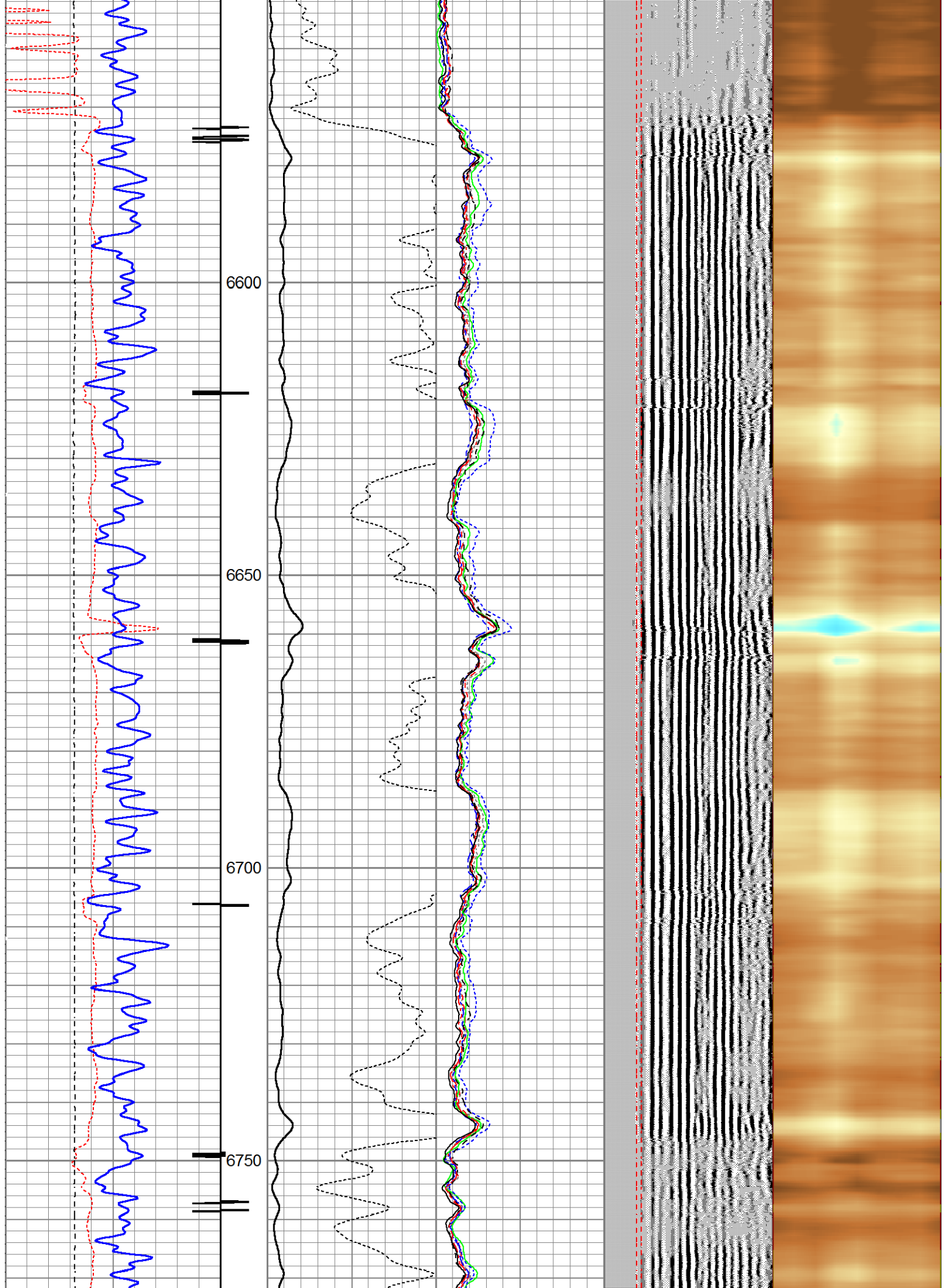


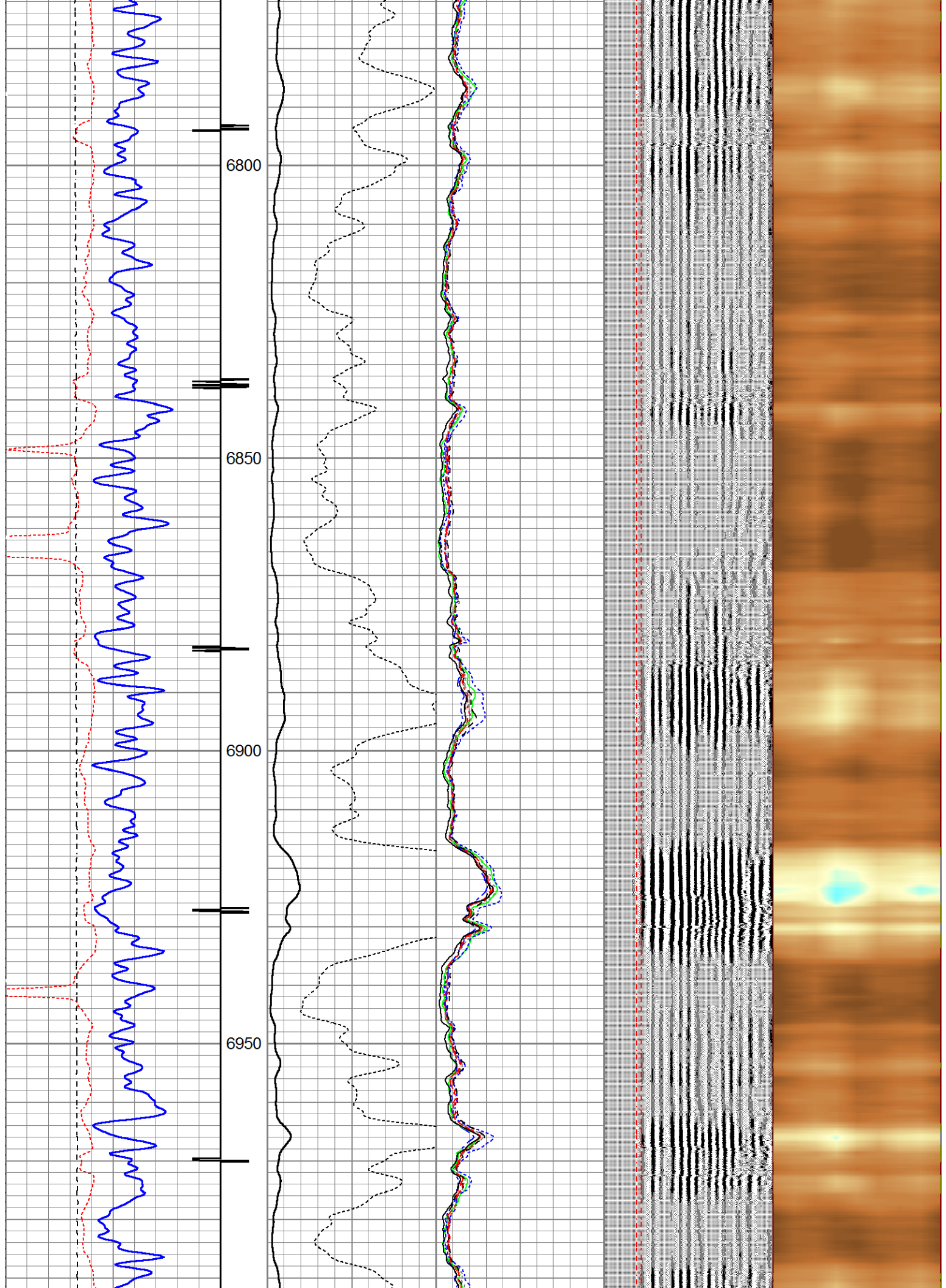


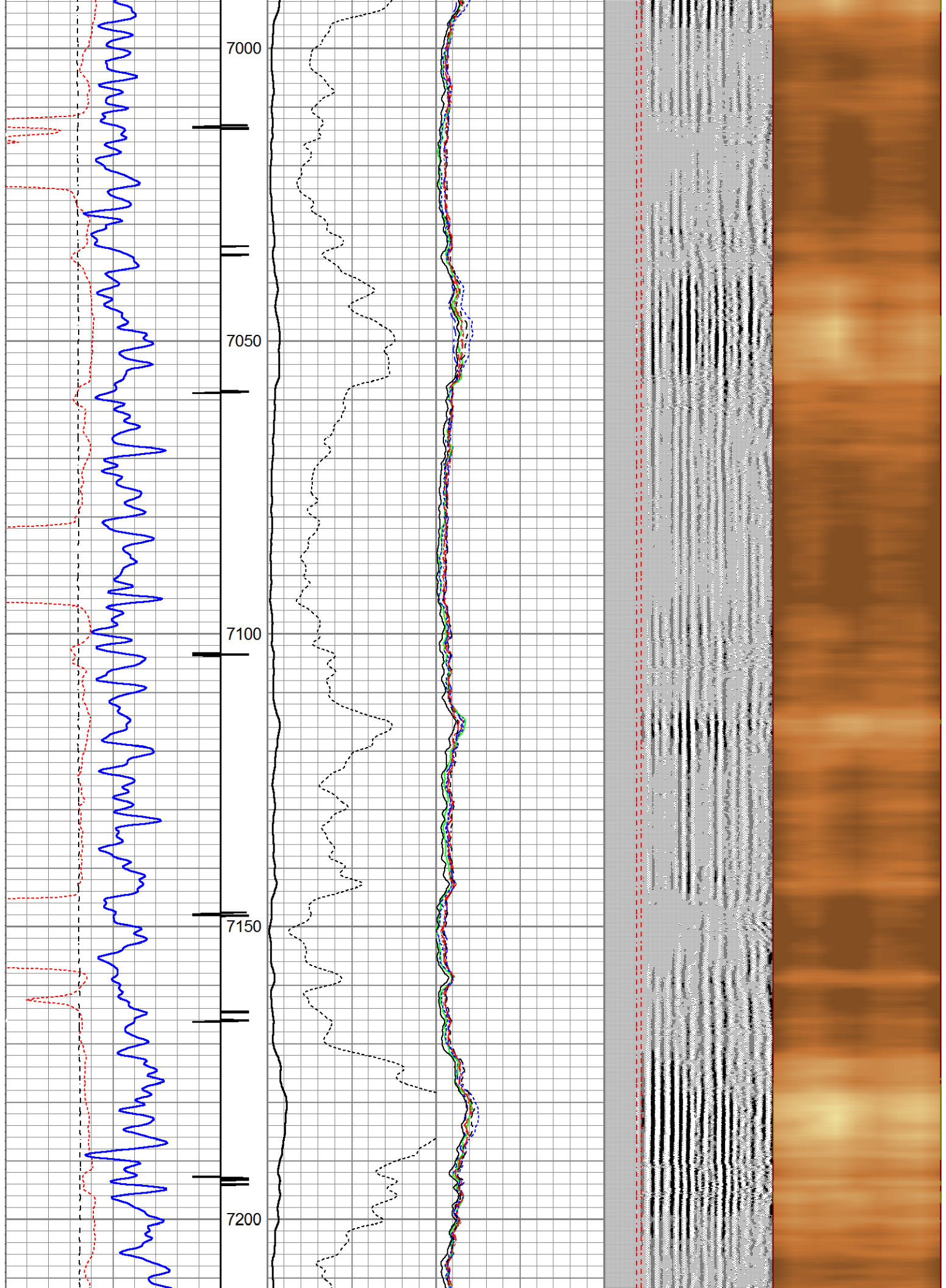


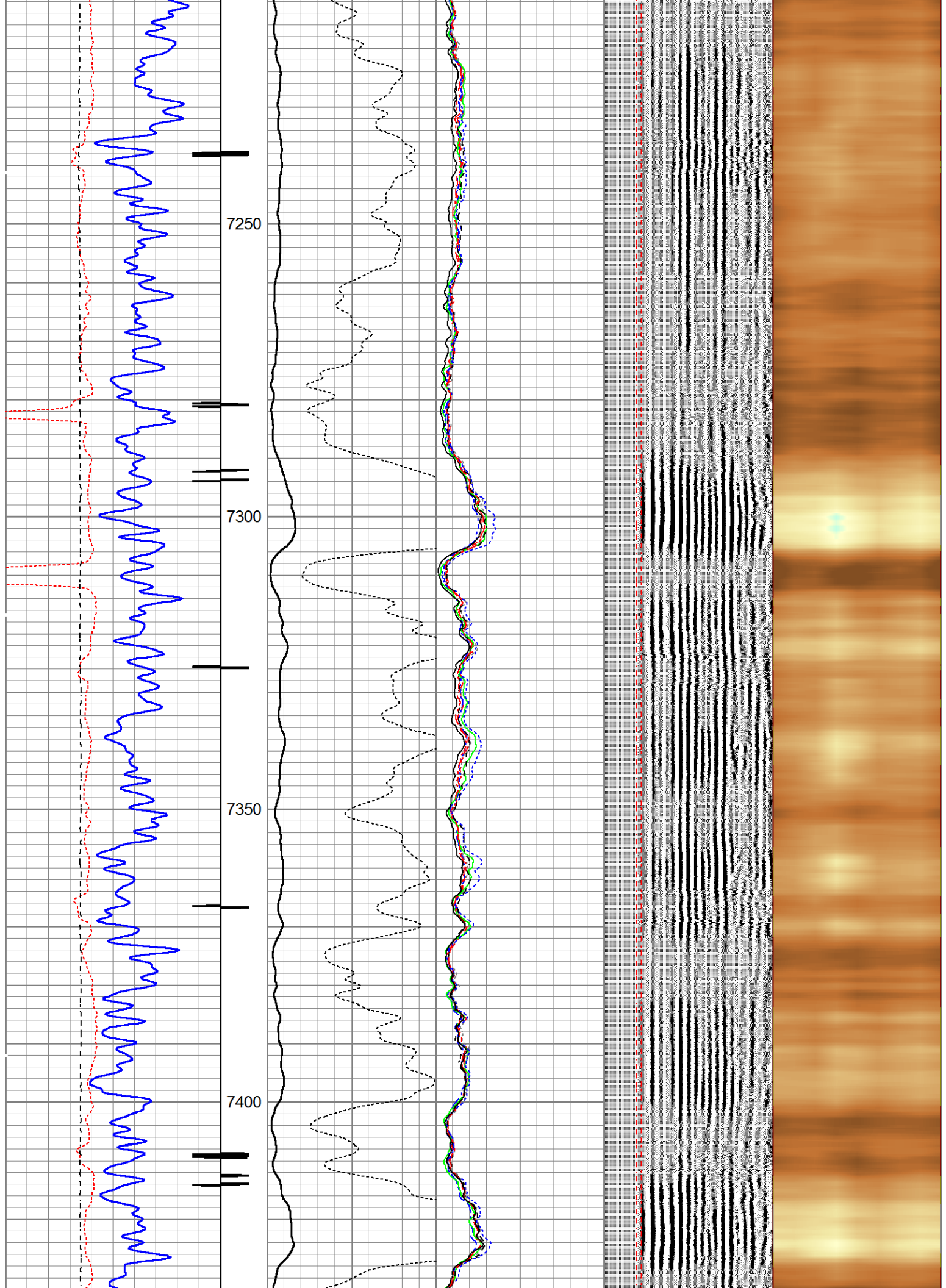


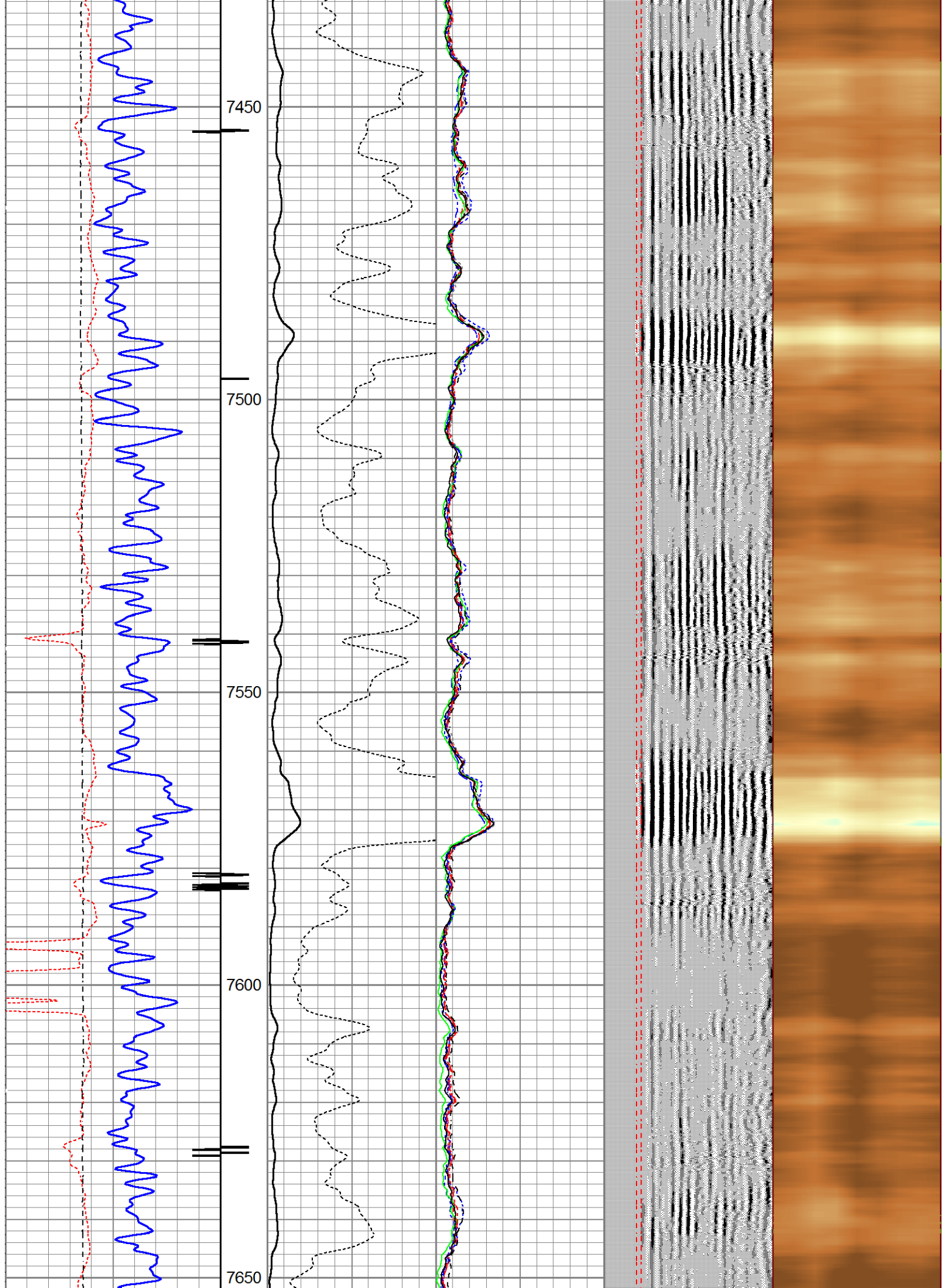


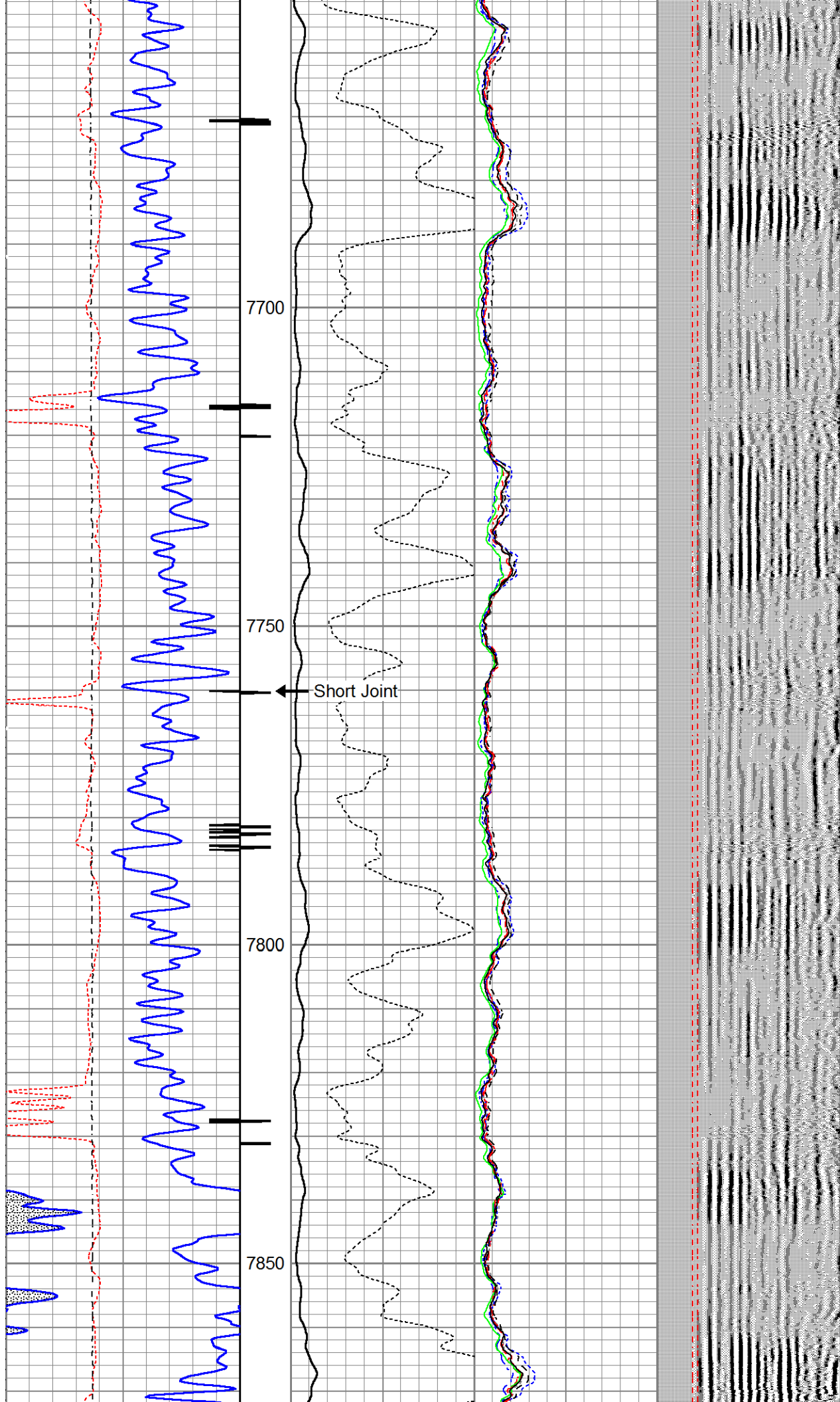


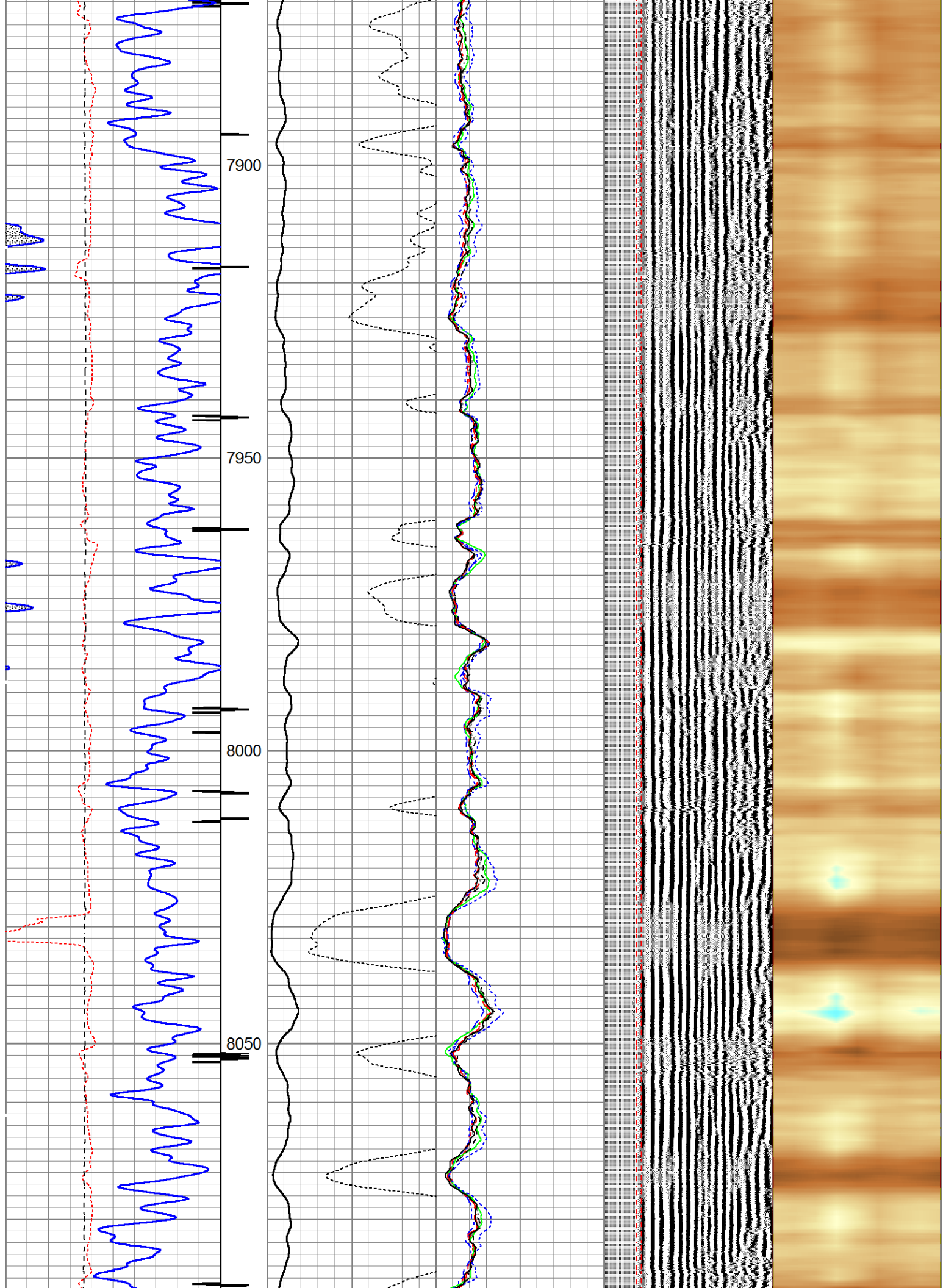


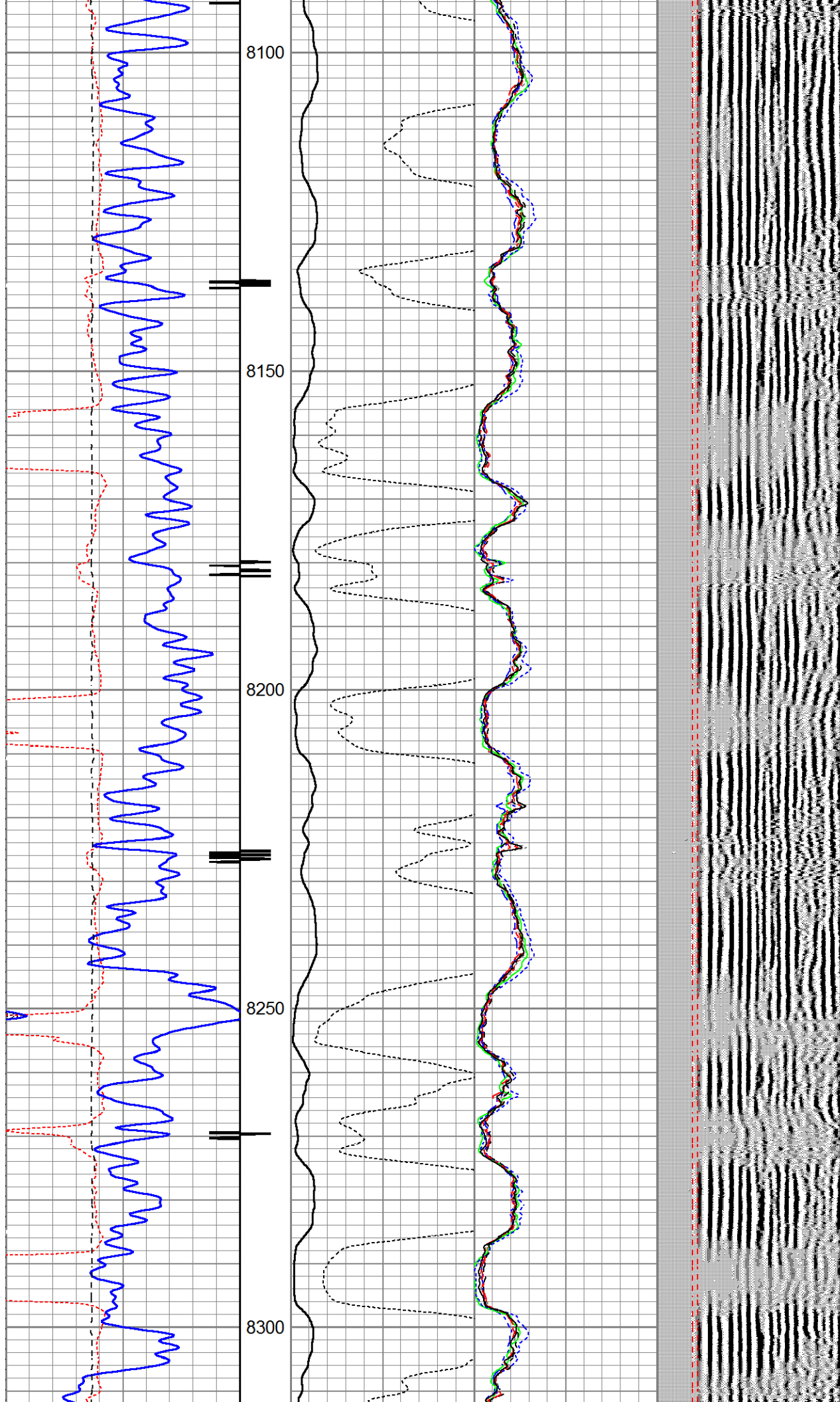


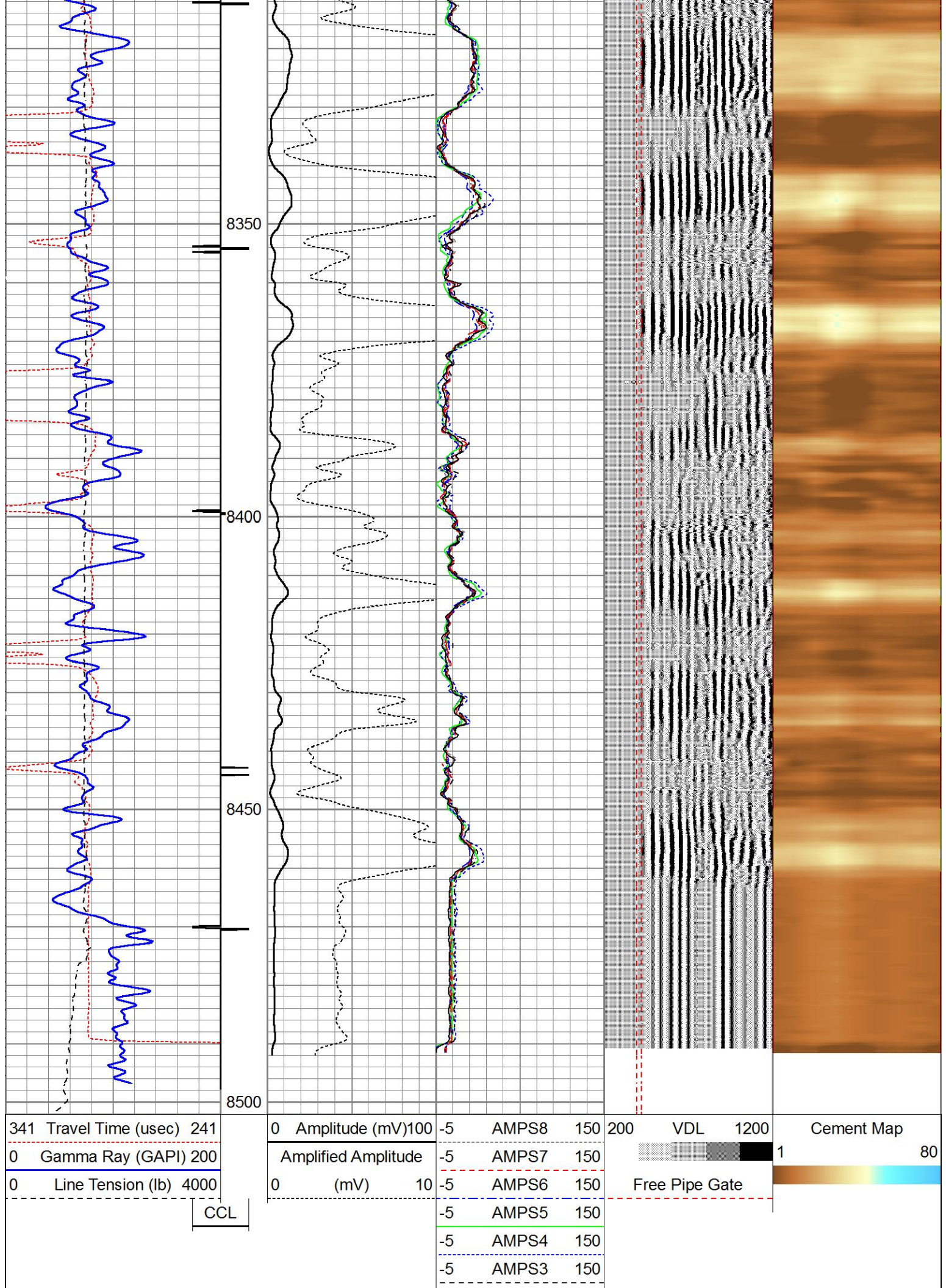












-5	AMPS2	150
-5	AMPS1	150



Main Pass (0) PSI

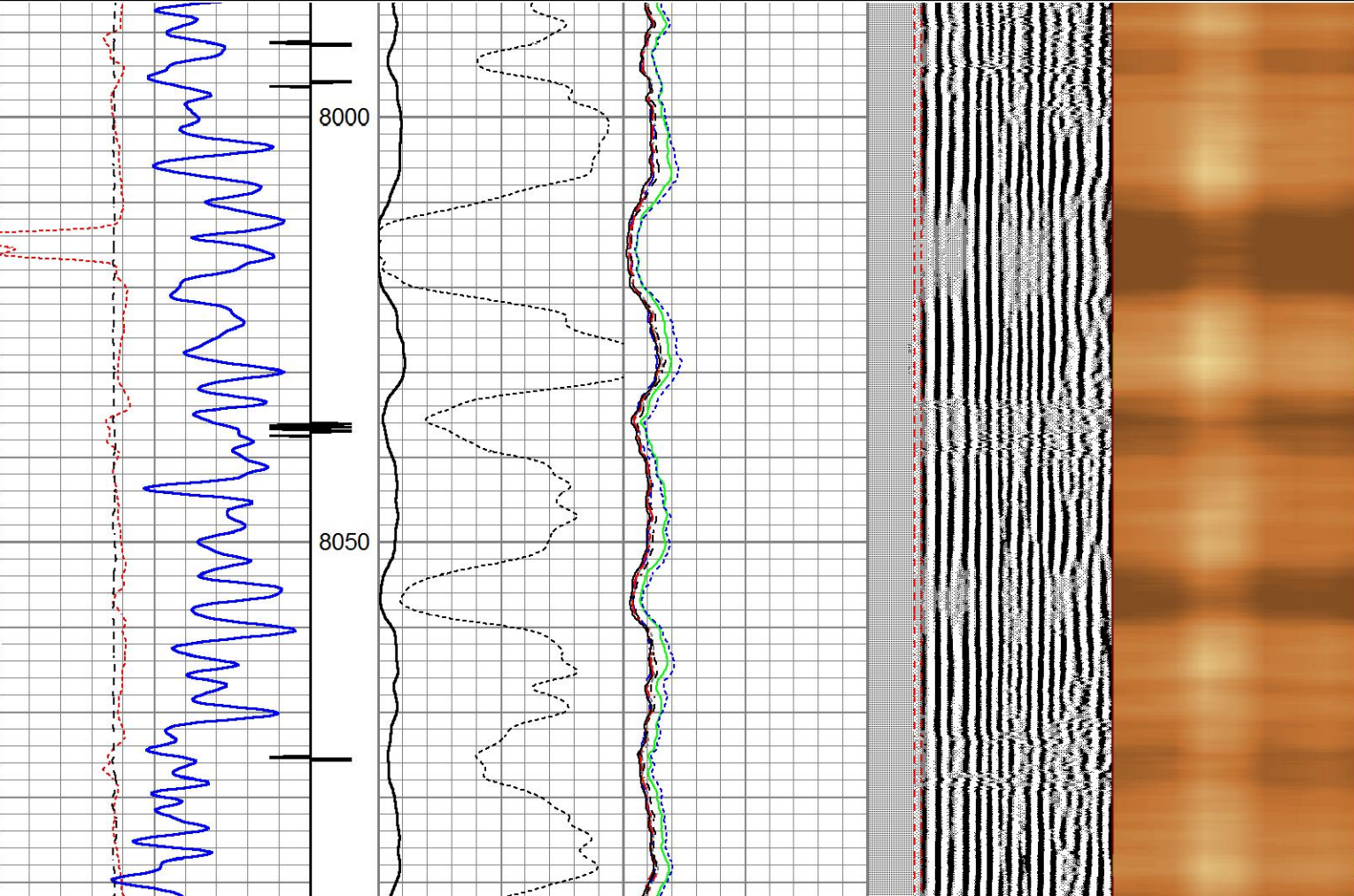


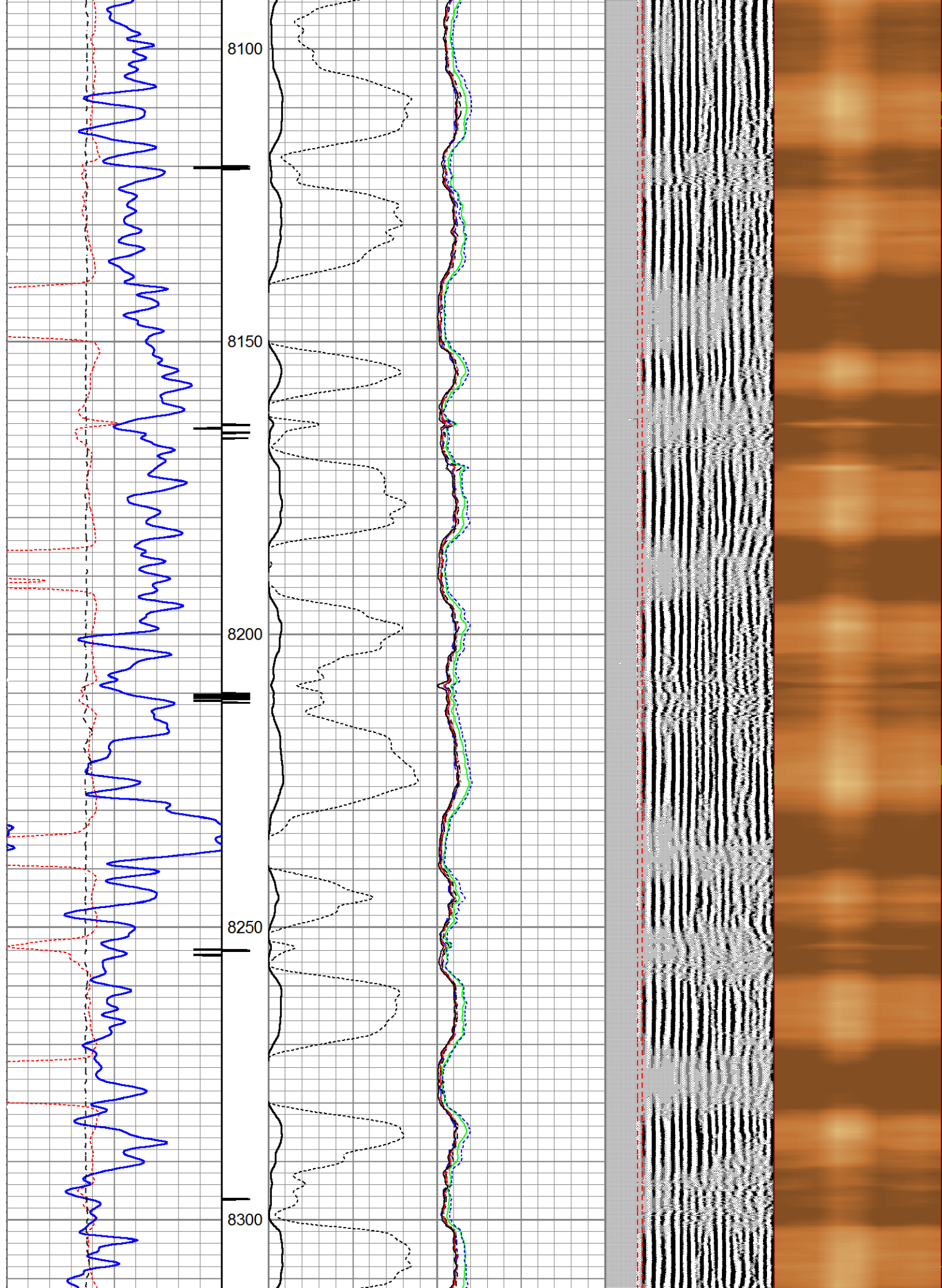
Repeat Pass (0) PSI

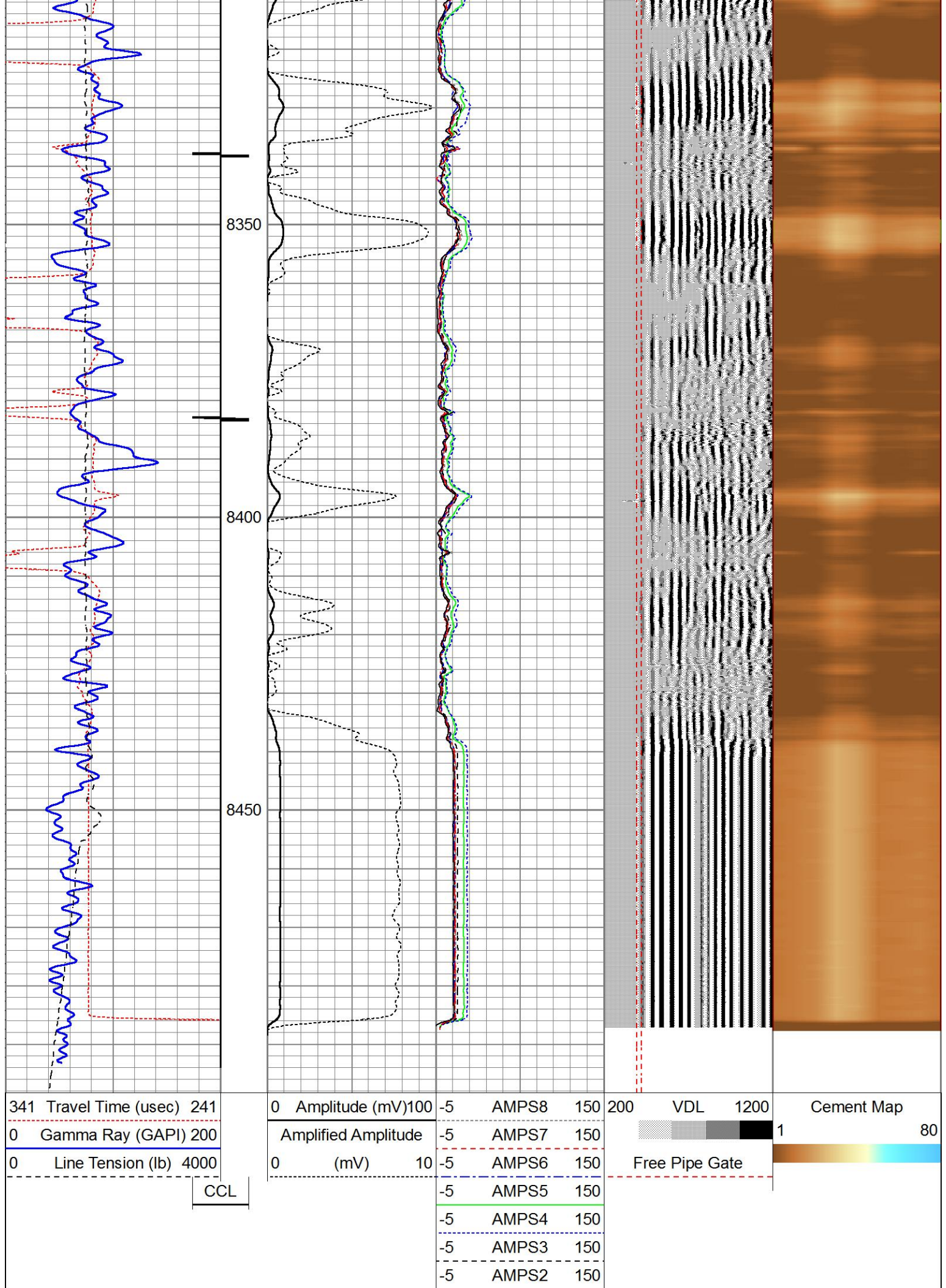
Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

e:\petroshare corp shook pad\db's\fs0208 ps shook 3-10-2cdh cbl.db
Shook3-10-2CDH/run1/pass2
scbl5_5
Sat Mar 03 23:01:16 2018
Depth in Feet scaled 1:240

341	Travel Time (usec)	241	0	Amplitude (mV)	100	-5	AMPS8	150	200	VDL	1200	Cement Map	
0	Gamma Ray (GAPI)	200		Amplified Amplitude		-5	AMPS7	150				1	80
0	Line Tension (lb)	4000	0	(mV)	10	-5	AMPS6	150		Free Pipe Gate			
						-5	AMPS5	150					
						-5	AMPS4	150					
						-5	AMPS3	150					
						-5	AMPS2	150					
						-5	AMPS1	150					









Repeat Pass (0) PSI

Log Variables

Database: \petroshare corp shook pad\db's\fs0208 ps shook 3-10-2cdh cbl.db
Dataset field/Shook3-10-2CDH/run1/pass5/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 20	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

Variable Description

BOREID : Borehole I.D.	CASEWGHT : Casing Weight	PERFS : Perforation Flag
BOTTEMP : Bottom Hole Temperature	MAXAMPL : Maximum Amplitude	PPT : Predicted Pipe Time
CASEOD : Casing O.D.	MINAMPL : Minimum Amplitude	SRFTEMP : Surface Temperature
CASETHCK : Casing Thickness	MINATTN : Minimum Attenuation	TDEPTH : Total Depth

Calibration Report

Database File e:\petroshare corp shook pad\db's\fs0208 ps shook 3-10-2cdh cbl.db
Dataset Pathname Shook3-10-2CDH/run1/pass5
Dataset Creation Wed Mar 07 00:30:33 2018

Gamma Ray Calibration Report

Serial Number:	pr120363	
Tool Model:	Probe275dig	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Radial Cement Bond Calibration Report

Serial Number:	120768C	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	23.367	ft

Master Calibration, performed Sat Mar 03 19:08:50 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	0.719	1.000	71.921	134.031	2.831
CAL	0.004	0.902				
5'	0.000	0.685	1.000	71.921	103.514	0.975

SUM						
S1	0.042	0.730	0.000	100.000	296.792	-4.605
S2	0.010	0.721	0.000	100.000	279.033	3.051
S3	0.009	0.728	0.000	100.000	266.981	3.236
S4	0.009	0.732	0.000	100.000	266.637	-7.450
S5	0.011	0.730	0.000	100.000	262.462	-7.358
S6	0.011	0.732	0.000	100.000	258.729	3.201
S7	0.009	0.722	0.000	100.000	271.939	4.446
S8	0.009	0.717	0.000	100.000	286.159	3.002

Internal Reference Calibration, performed Sat Mar 03 18:58:32 2018:



	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.902	1.000	0.000

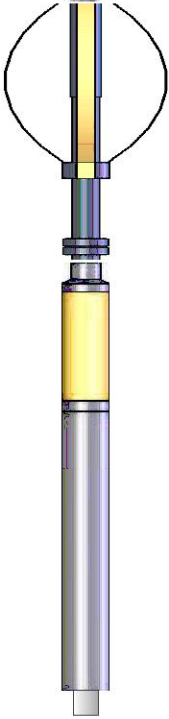
Temperature Calibration Report


Serial Number: 120768C
Tool Model: Probe
Performed: Tue Oct 09 13:55:20 2012

	Reference	Reading
Low Reference:	100.000	109.429
High Reference:	350.000	407.272

Gain: 0.839
Offset: 8.149

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ExTemp	14.41		CHD-1.4375CHD Titan Cable Head 1 7/16	1.00	1.44	10.00
			CENT-Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
			CLT-RBT-Probe (120768C) Probe 2.75" Radial Bond Tool w/Temperature	9.21	2.75	93.00
WVFS8	12.11					
WVFS7	12.11					
WVFS6	12.11					
WVFS5	12.11					

WVFS4	12.11					
WVFS3	12.11					
WVFS2	12.11					
WVFS1	12.11					
WVFCAL	12.11					
WVF3FT	12.11					
WVF5FT	11.11					
						
			CENT-Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	4.14					
GR	2.81		CLT-GR-Probe275dig (pr120363) Probe Digital Gamma CCL	4.78	2.75	57.00
			Titan-1.375_Cap Titan 1 3/8" Cap	0.27	1.38	1.00
Dataset: fs0208 ps shook 3-10-2cdh cbl.db: field/Shook3-10-2CDH/run1/pass5 Total length: 21.01 ft Total weight: 201.00 lb O.D.: 2.75 in						

Company	Petroshare Corp				
Well	SHOOK 3-10-2CDH				
Field	WATTENBERG				
County	ADAMS		State	COLORADO	
			Radial Cement Bond Gamma Ray CCL Log		