



Radial Cement Bond
Gamma Ray CCL
Log

Company	Petroshare Corp	Country	
Well	SHOOK 3-10-1NAH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO		
Company	Petroshare Corp		
Well	SHOOK 3-10-1NAH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO	Country	
Location:	API # : 05-001-09978		Other Services
	NWSE SEC.03-T1S-R67W 2058' FSL & 2274' FEL		N/A
SEC	TWP	RGE	
Permanent Datum	G.L.	Elevation	5098'
Log Measured From	K.B.		
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	12804'		
Depth Logger	8204'		
Bottom Logged Interval	8192'		
Top Log Interval	27'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	726'		
Time Well Ready	13:35		
Time Logger on Bottom	14:30		
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			

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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

Depth correlated to marker joint
Marker joint at 7356' - 7380'

THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

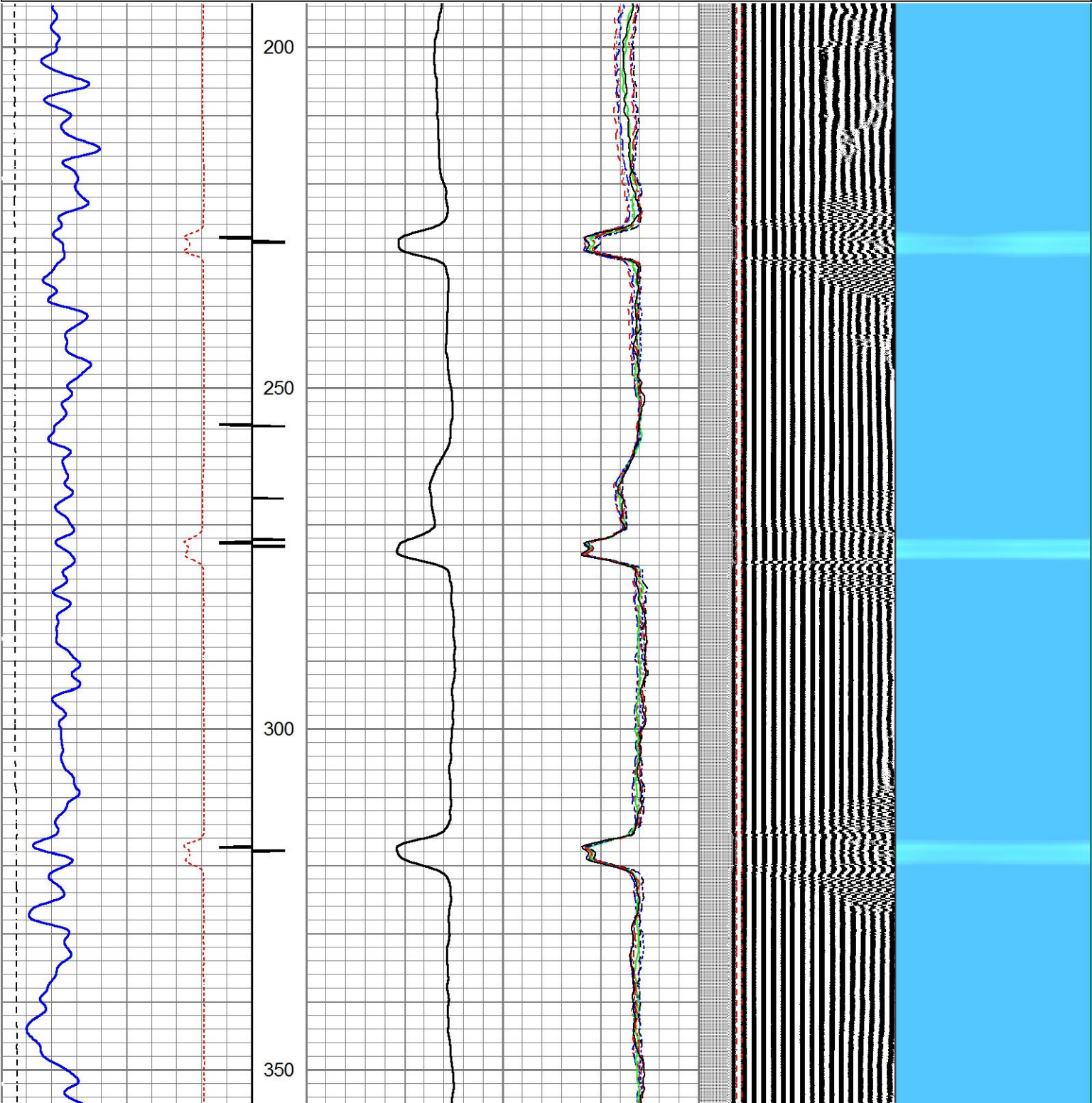
M. NOWICKI, B. SISSON, S. BARNETT

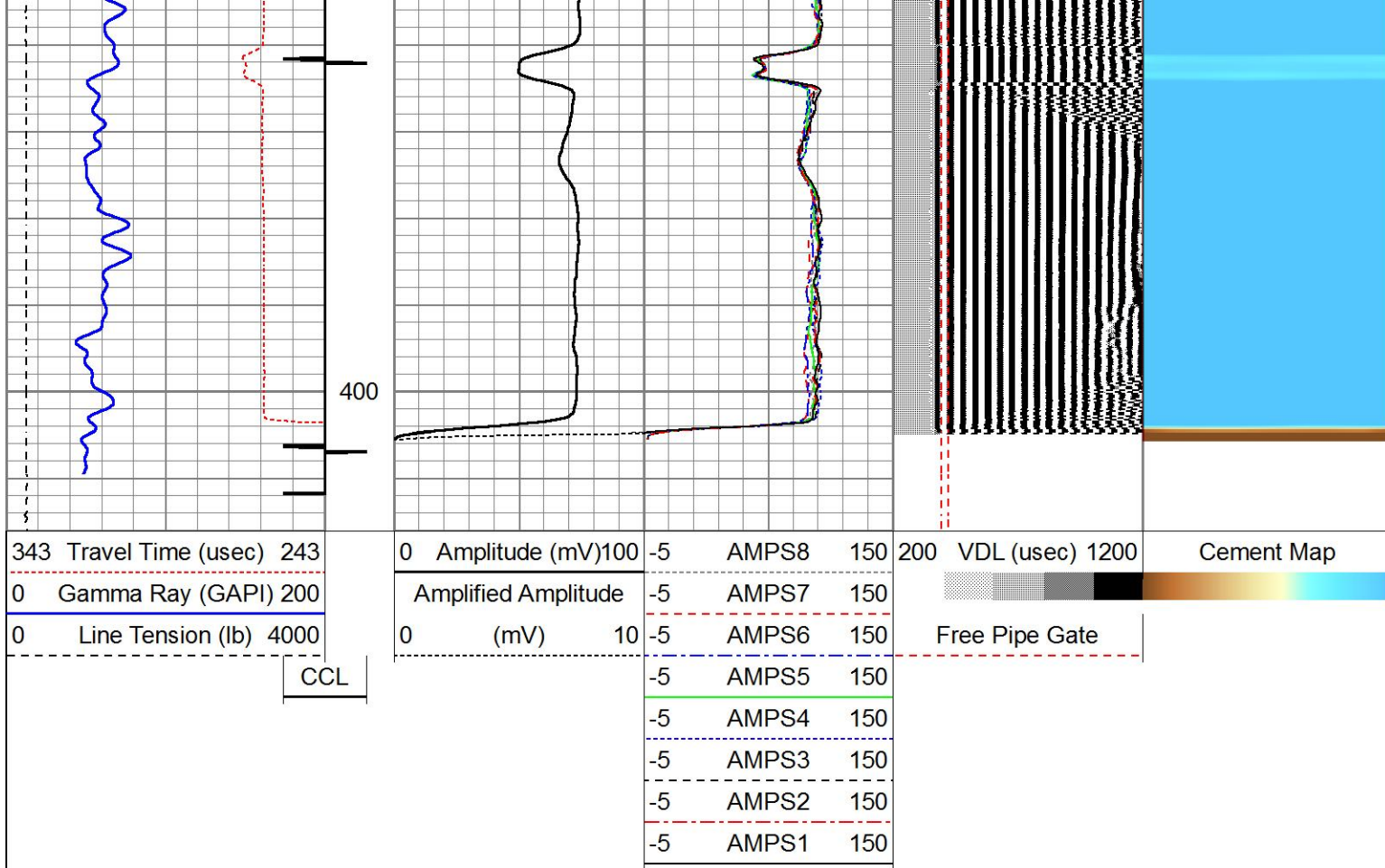


Free Pipe Pass (0) PSI

Database File	g:\petroshare corp shook pad\db's\fs0206 ps shook 3-10-1nah cbl.db
Dataset Pathname	Shook3-10-1NAH/run1/pass6
Presentation Format	scbl5_5
Dataset Creation	Sat Mar 03 13:53:56 2018
Charted by	Depth in Feet scaled 1:240

343	Travel Time (usec)	243	0	Amplitude (mV)	100	-5	AMPS8	150	200	VDL (usec)	1200	Cement Map
0	Gamma Ray (GAPI)	200		Amplified Amplitude		-5	AMPS7	150				
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				



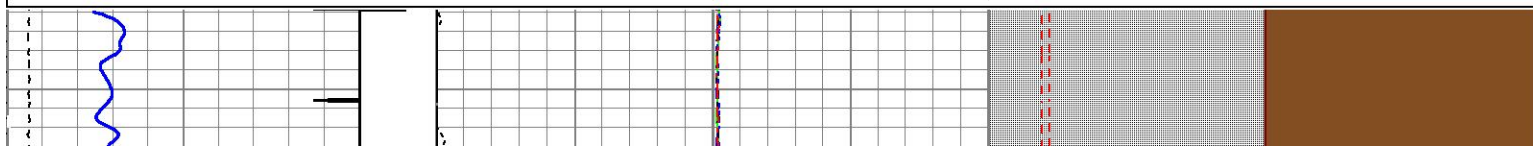
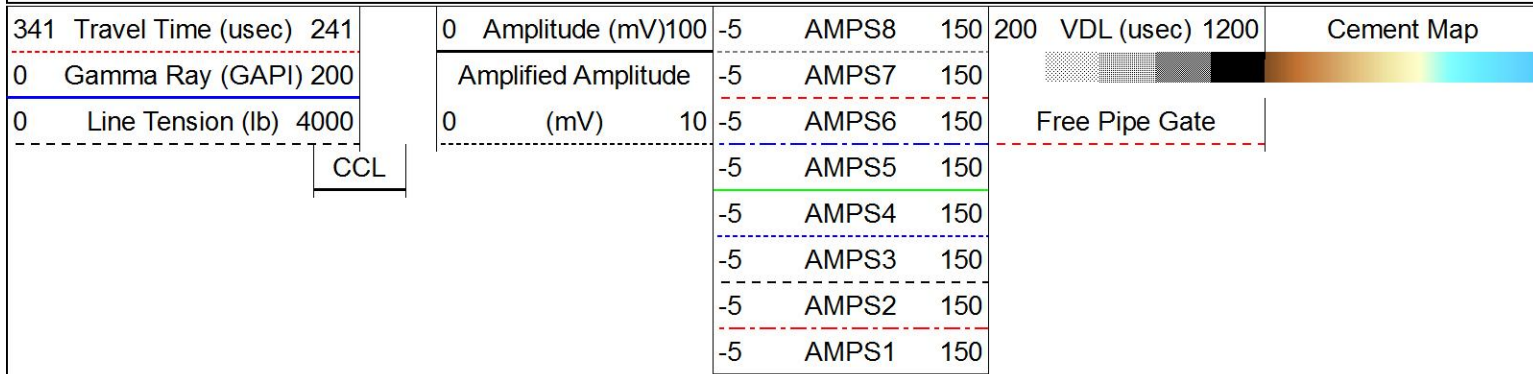


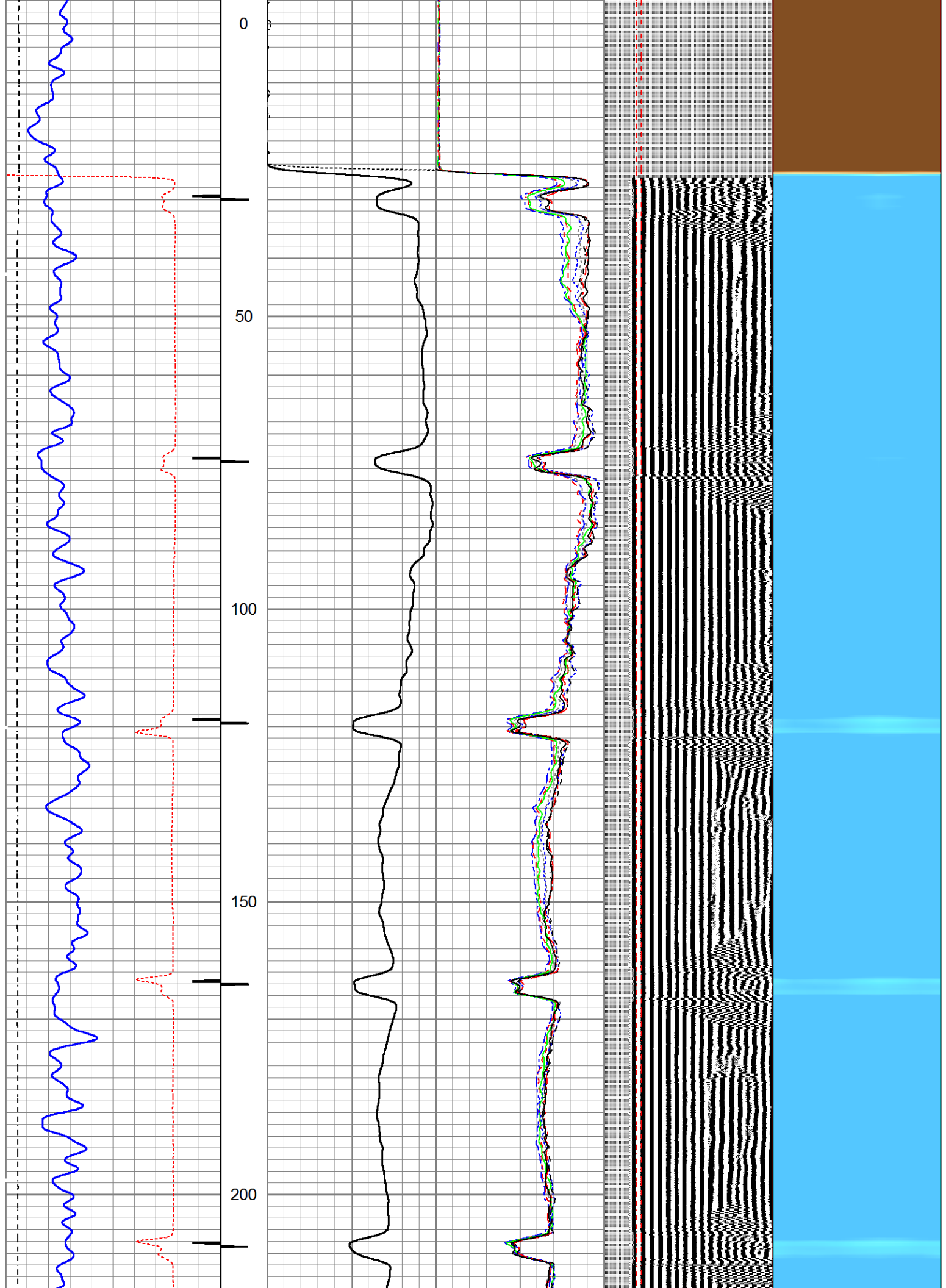
Free Pipe Pass (0) PSI

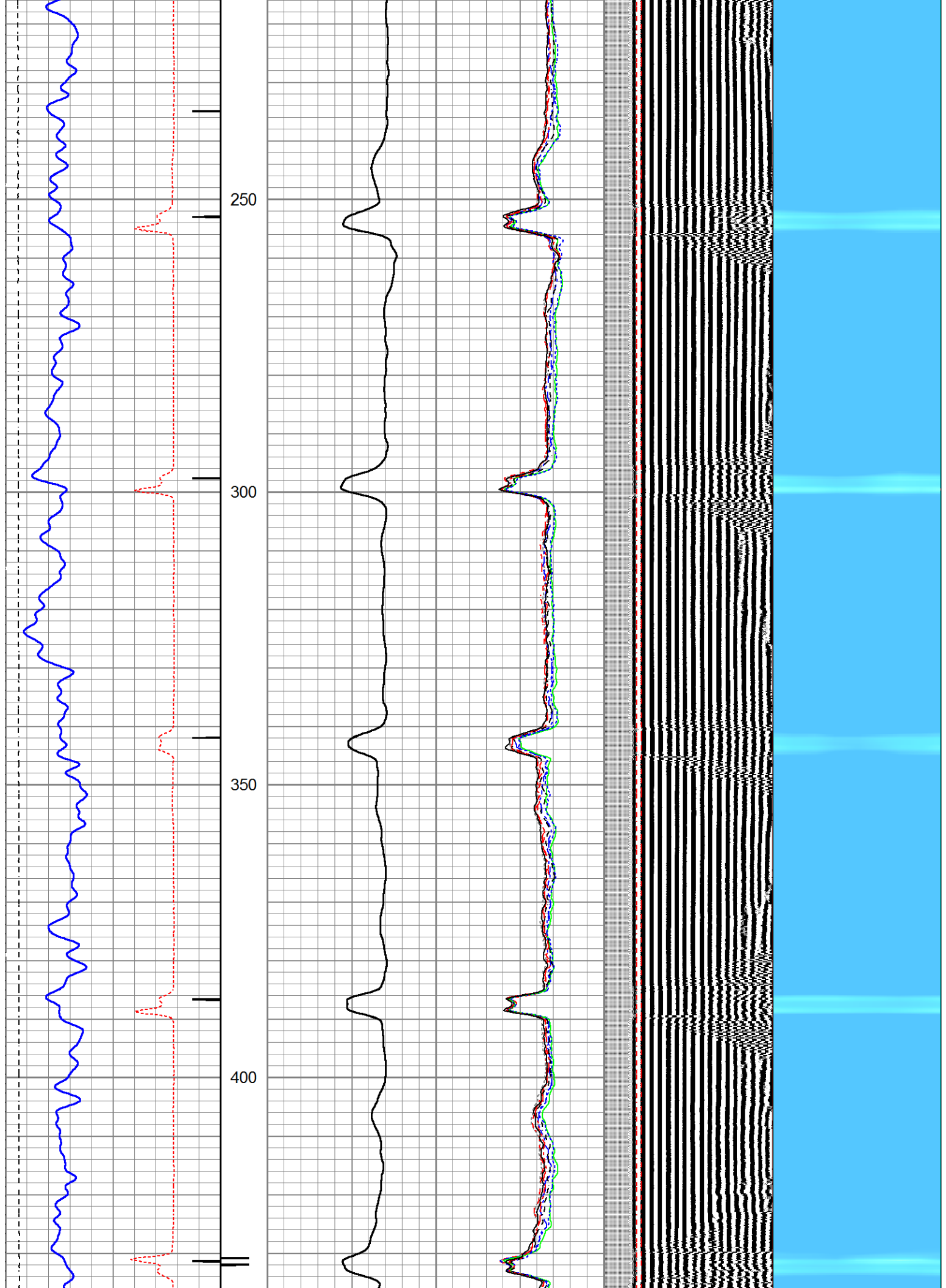


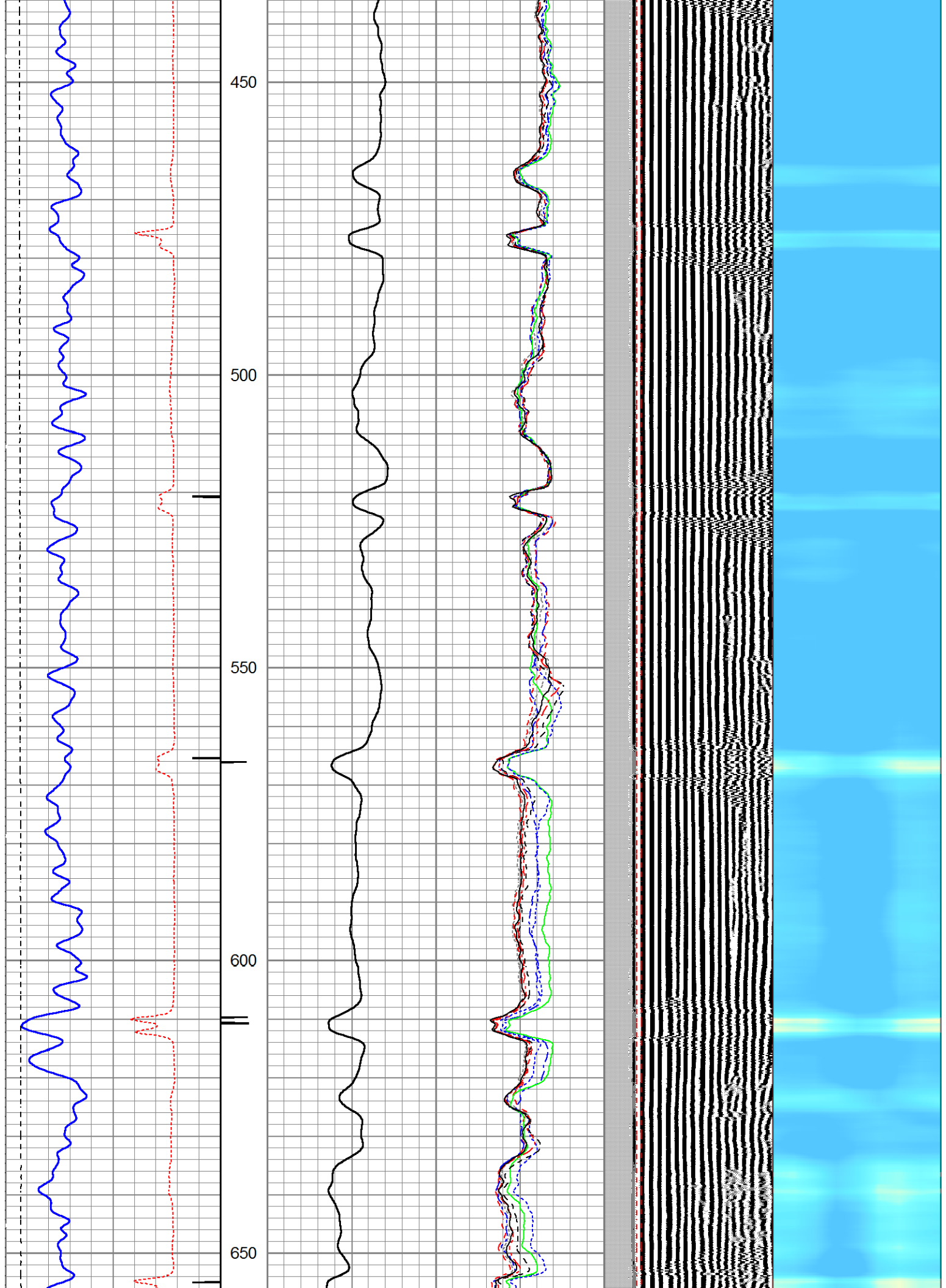
Main Pass (0) PSI

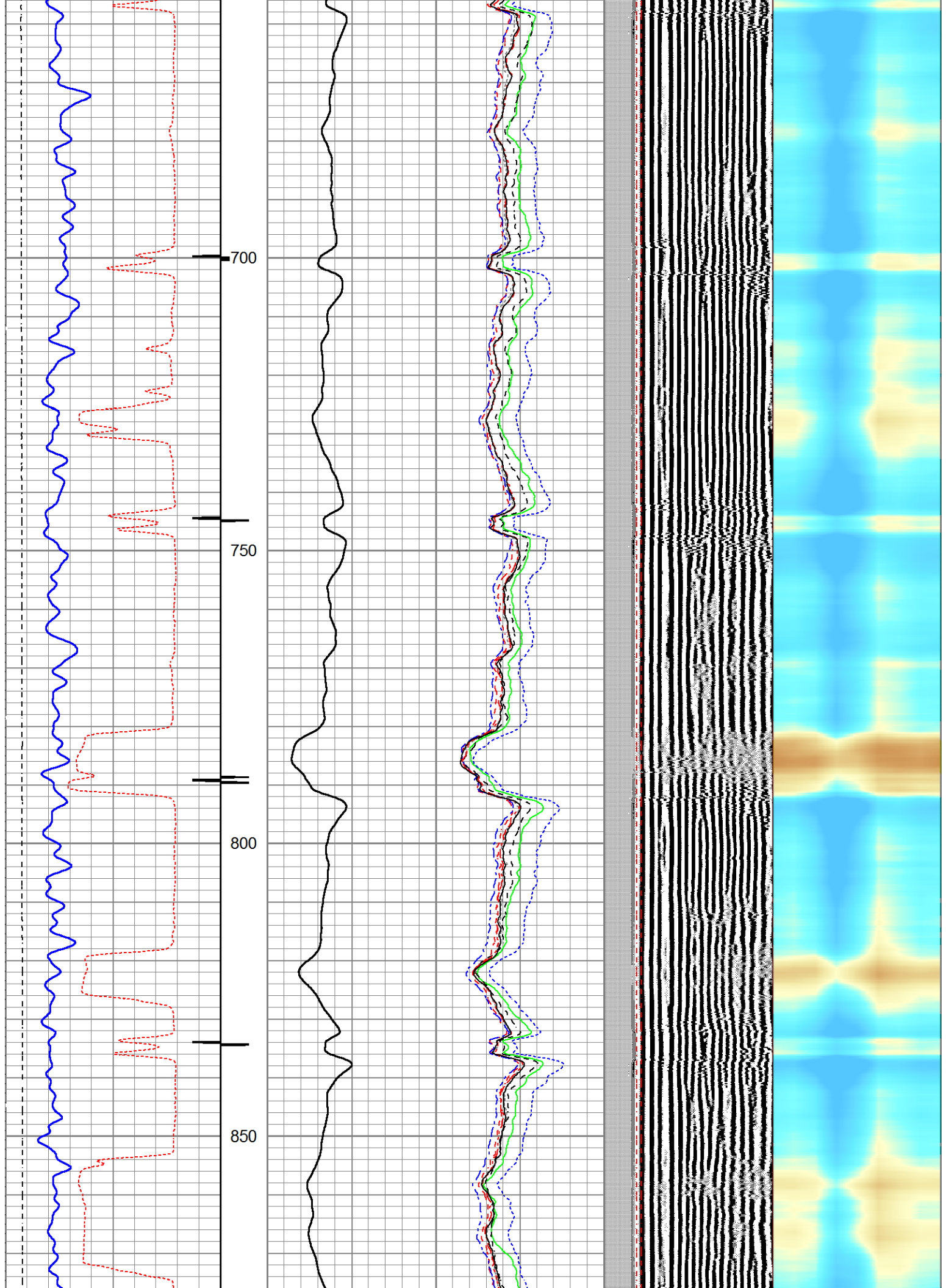
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 Presentation Format scbl5_5
 Dataset Creation Sat Mar 03 14:38:34 2018
 Charted by Depth in Feet scaled 1:240

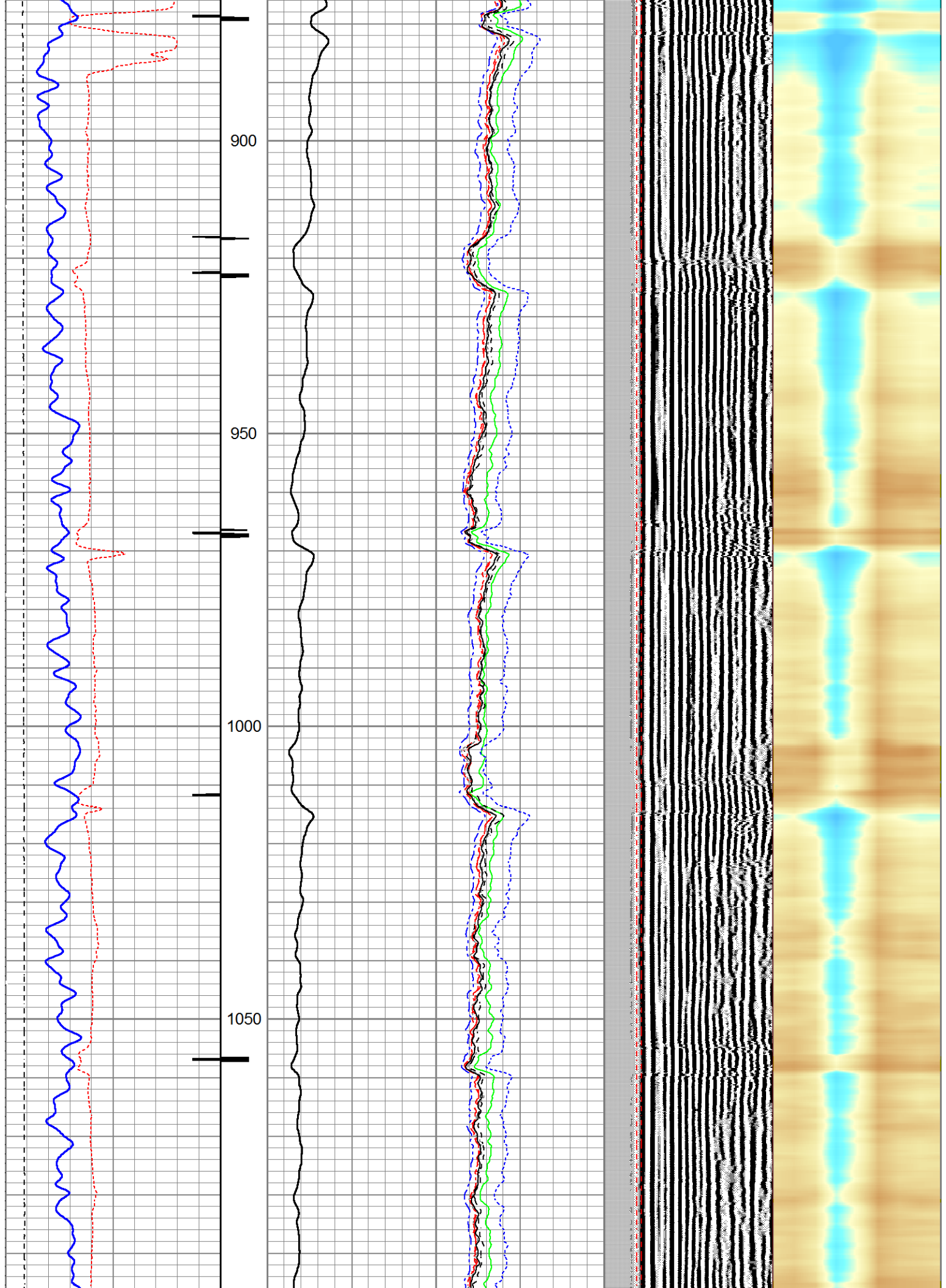


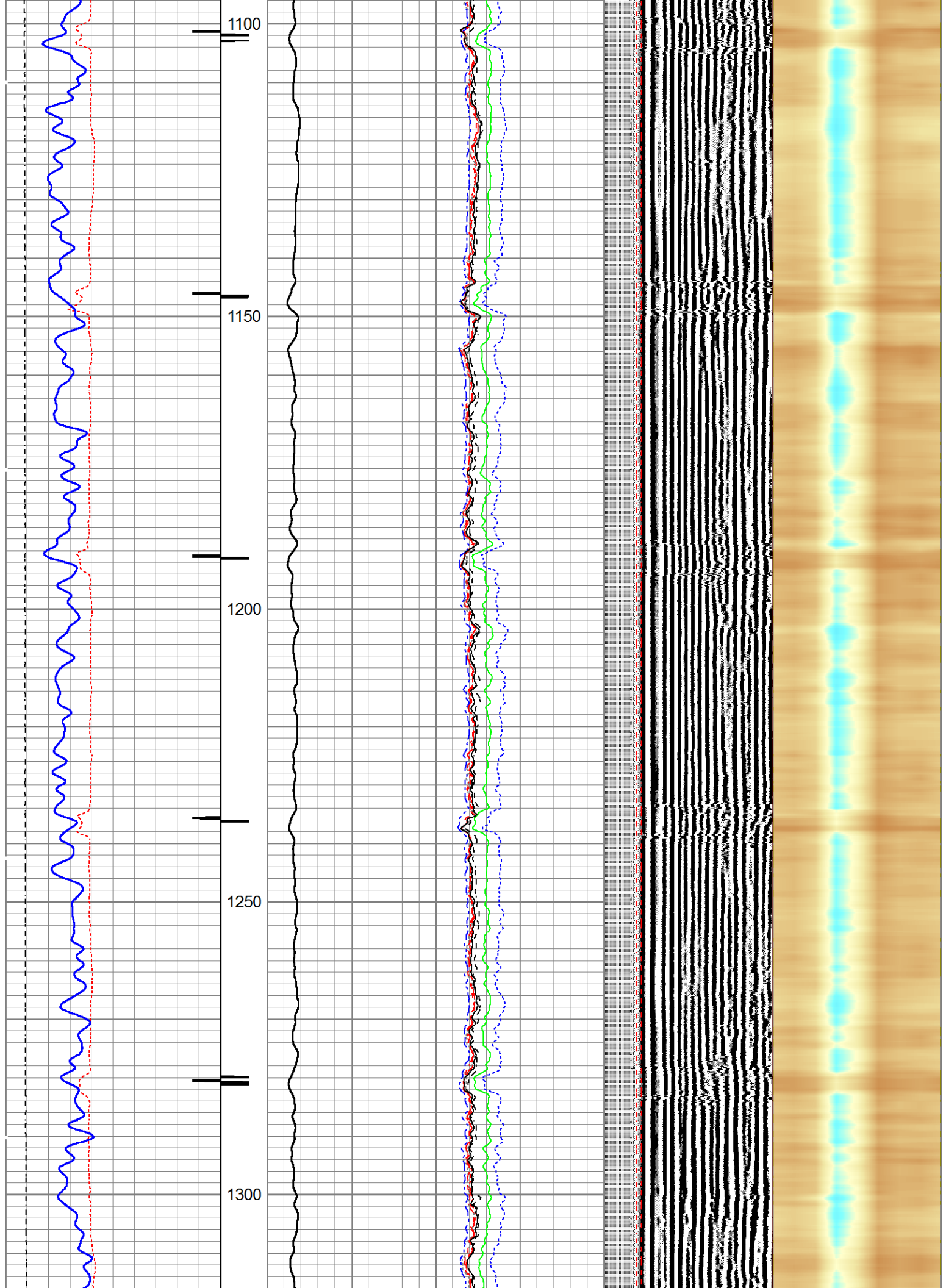


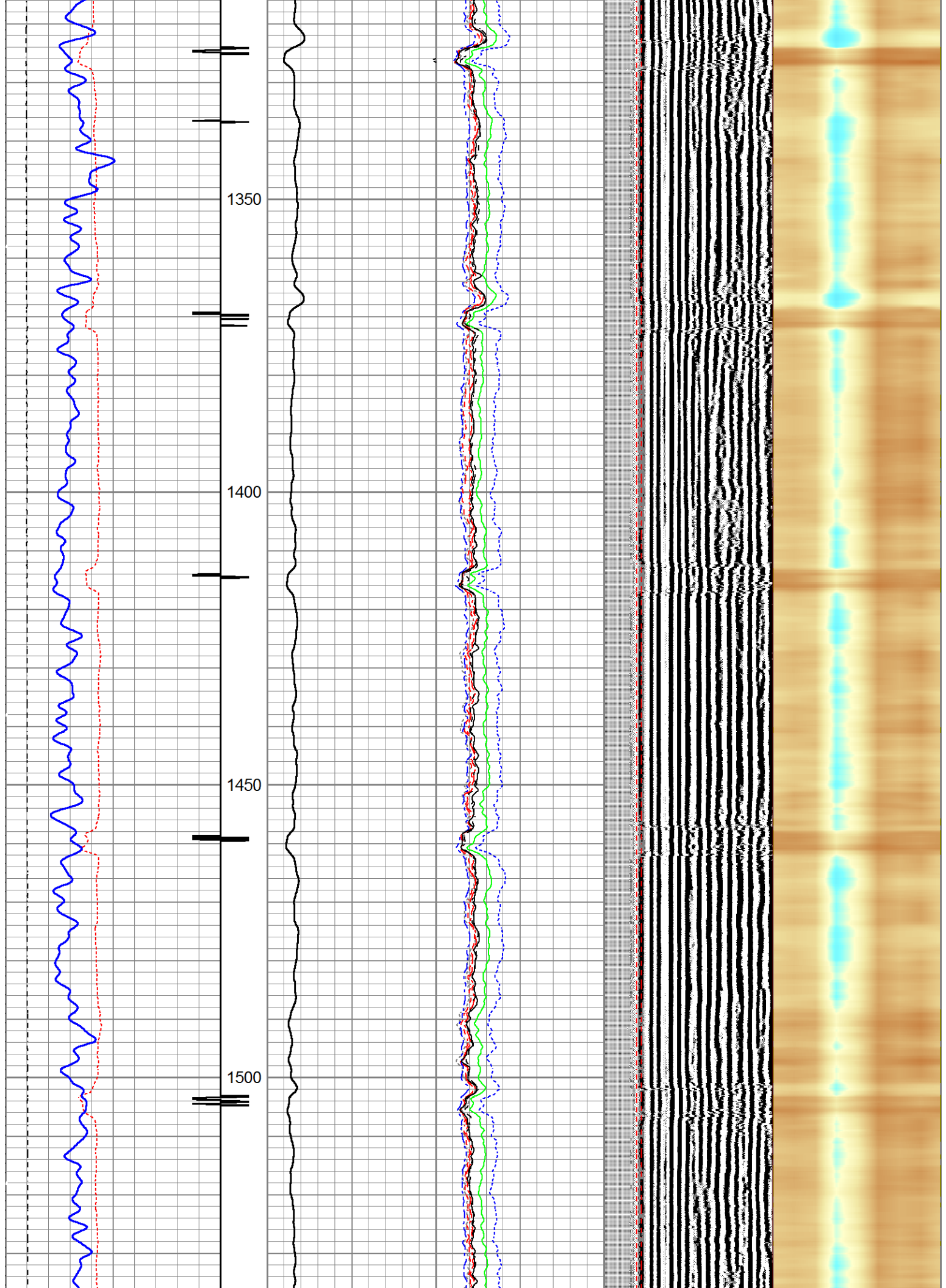


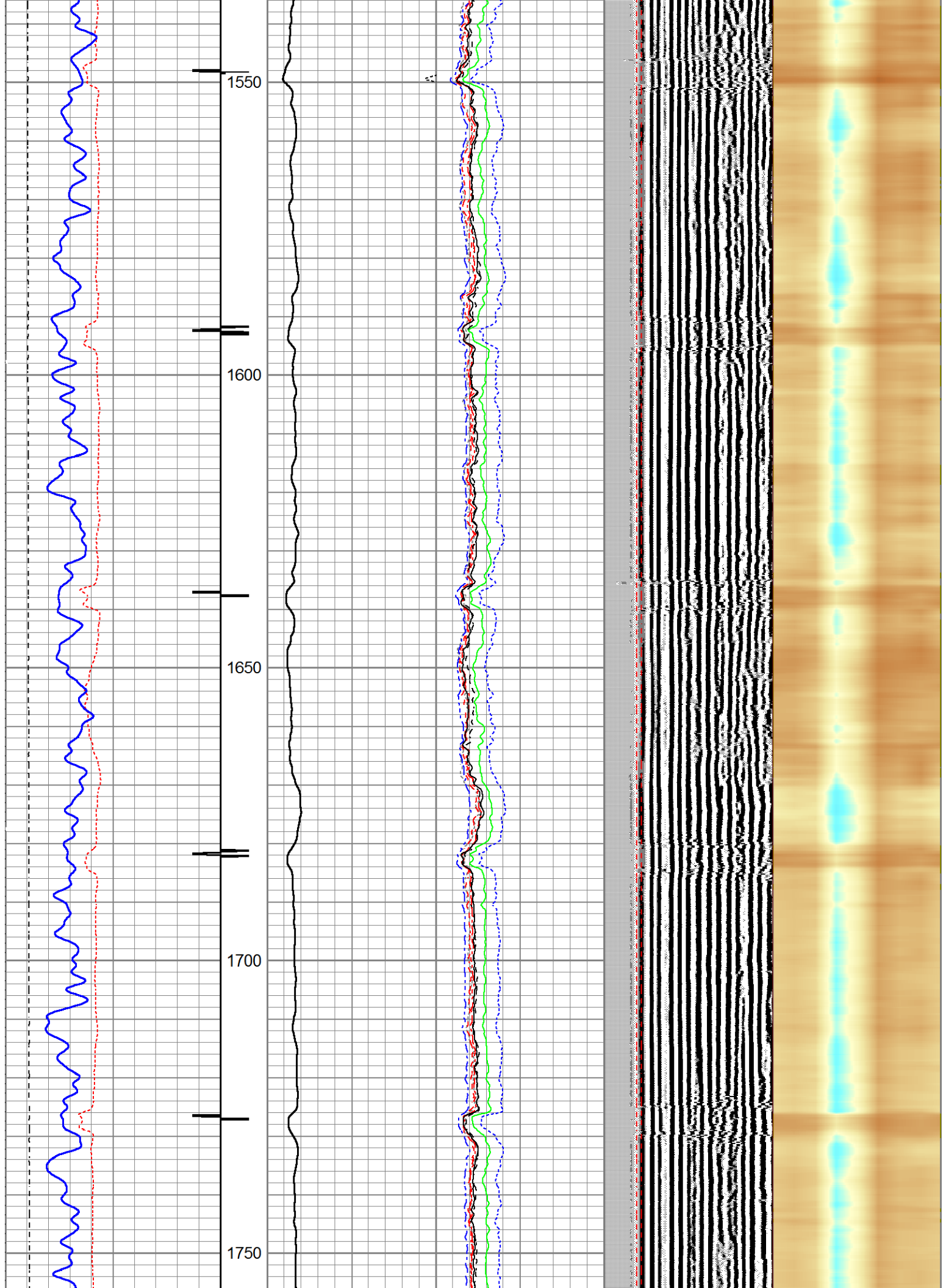


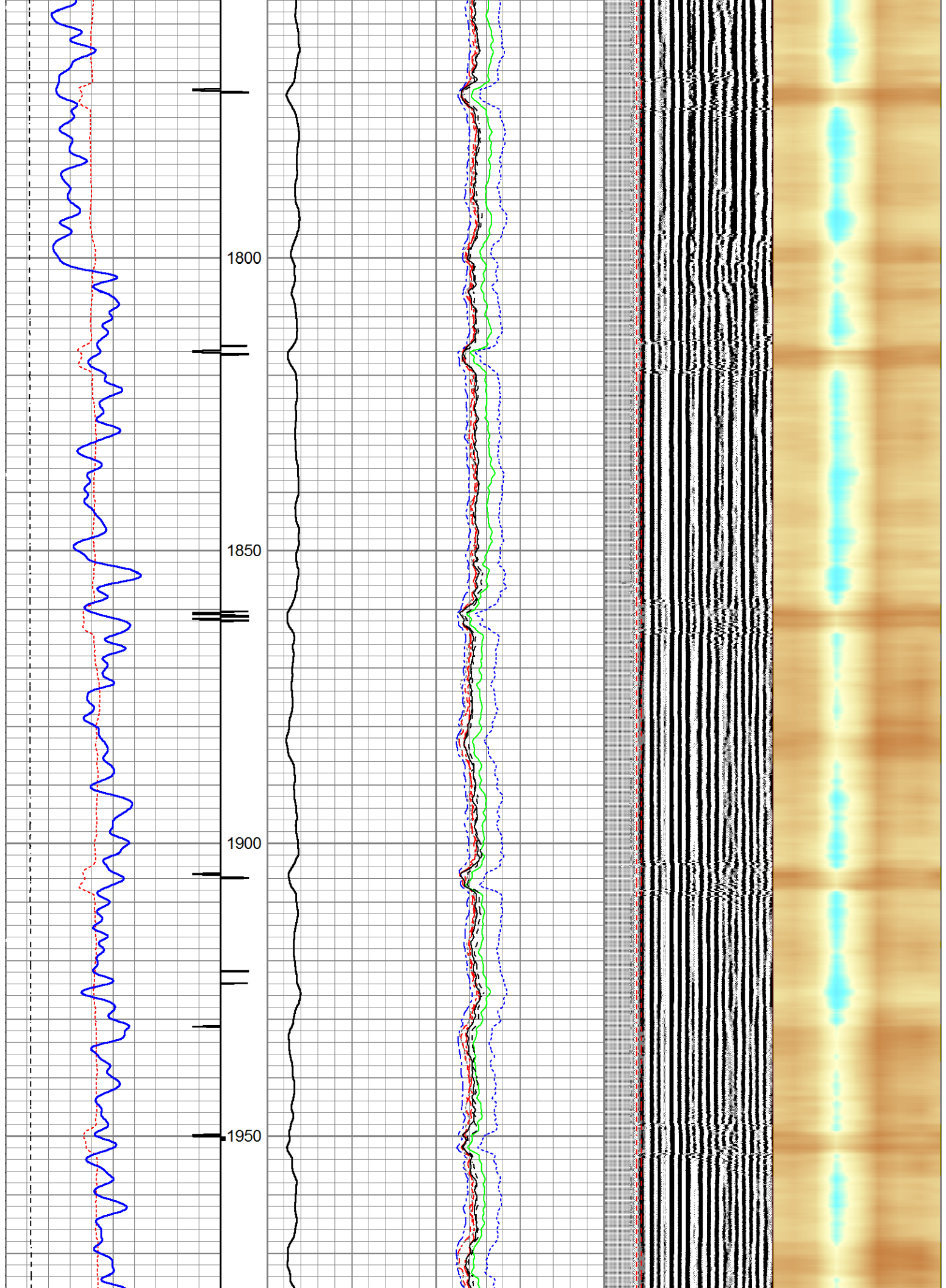


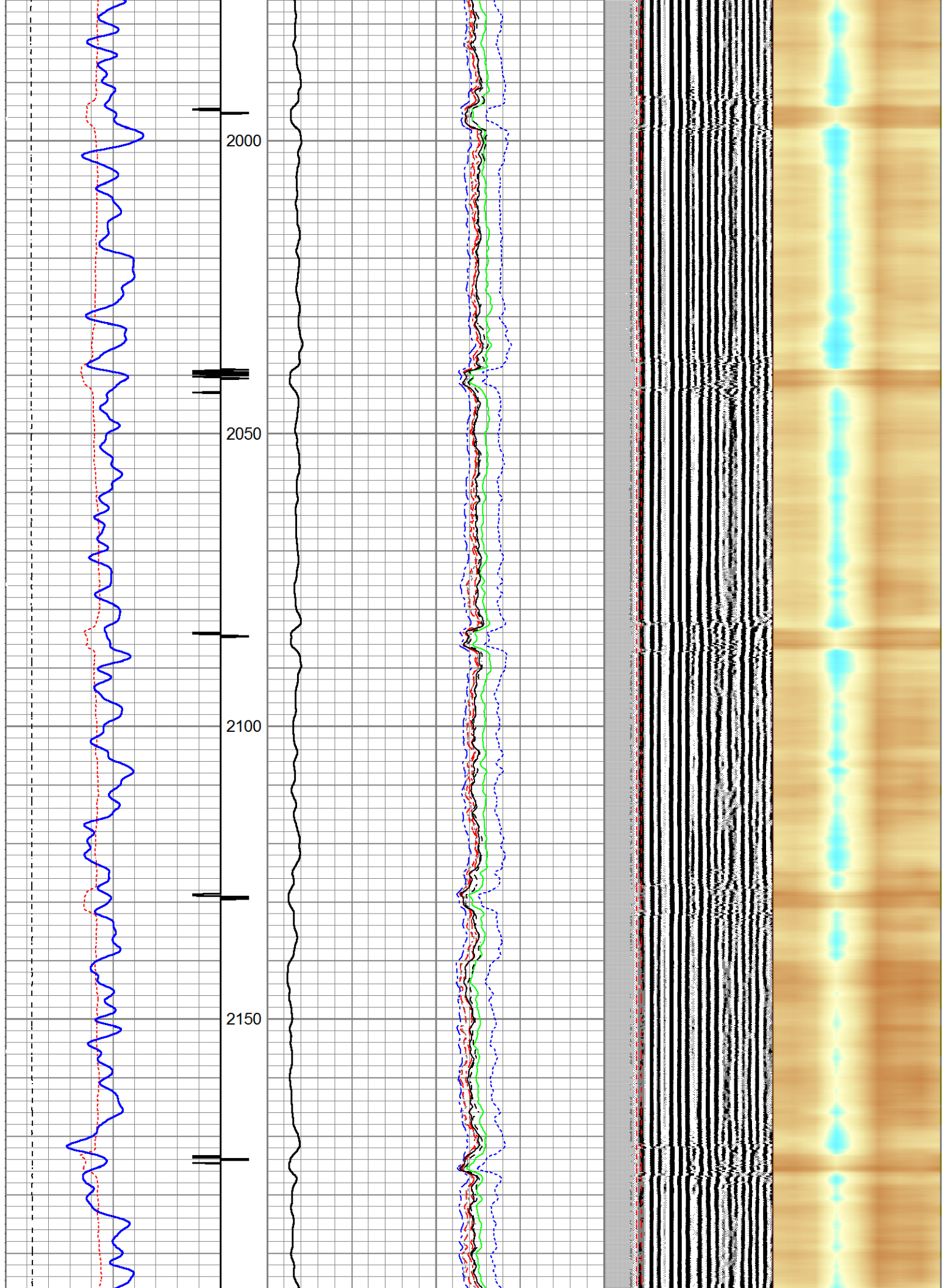


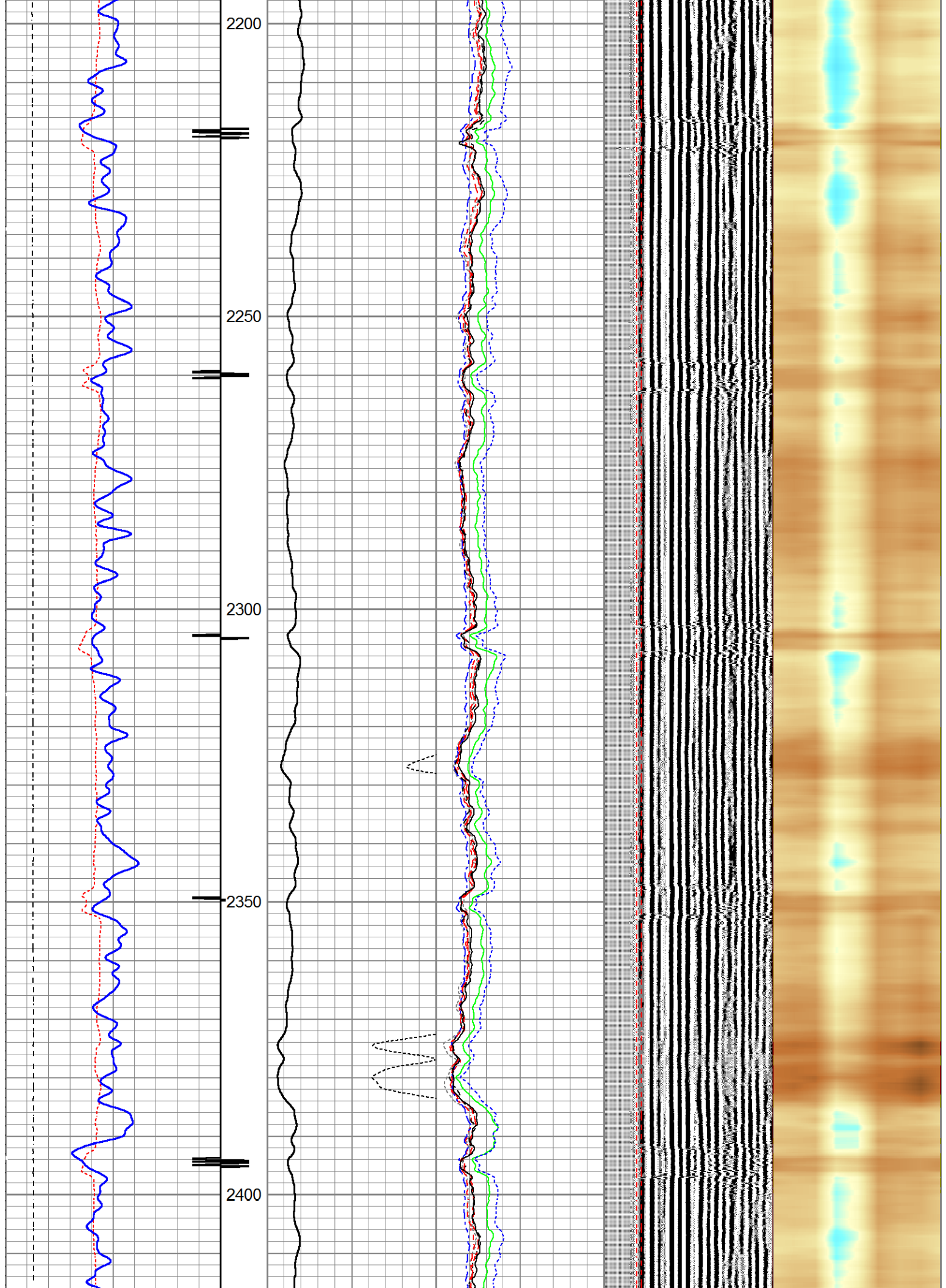


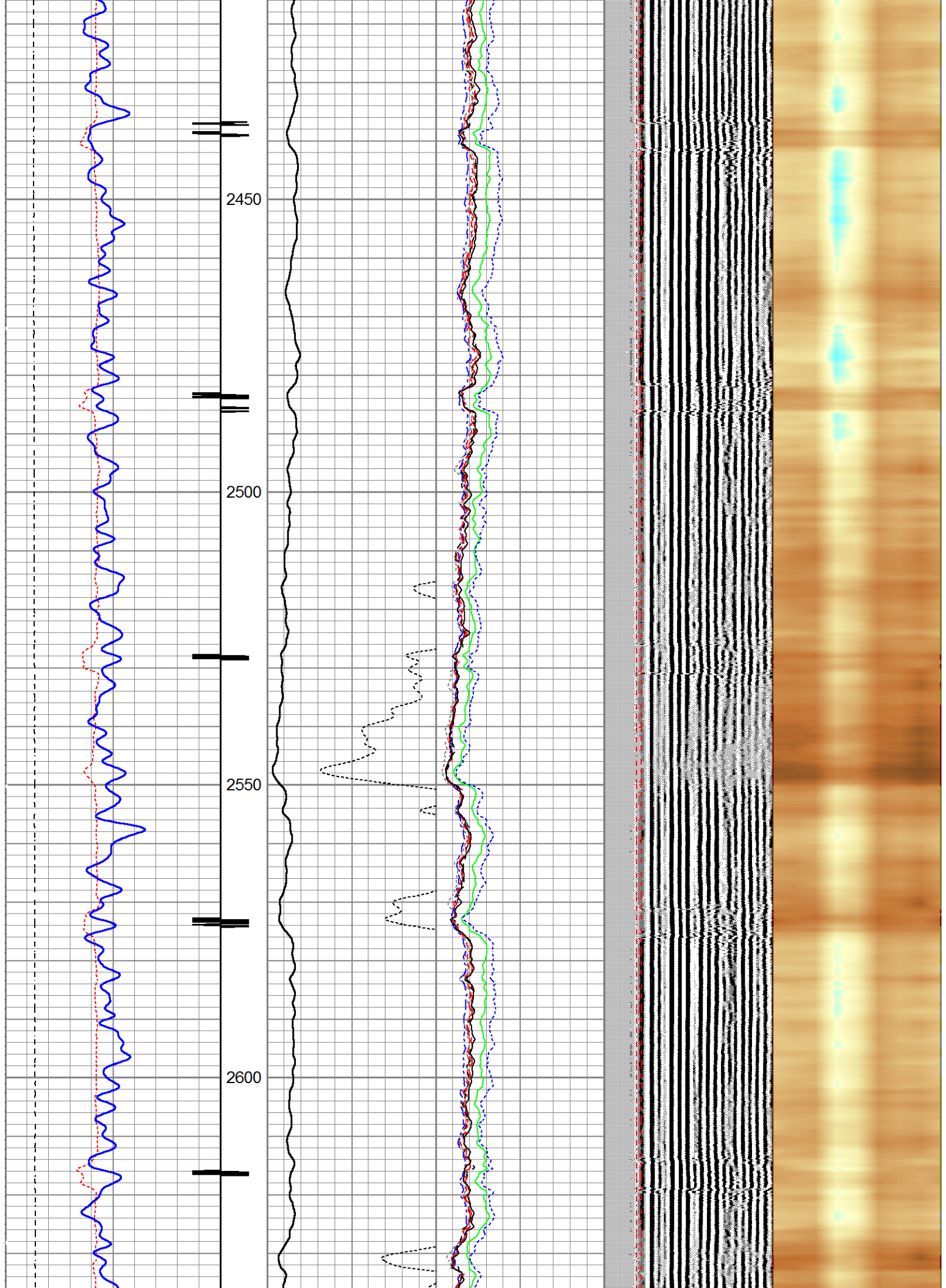


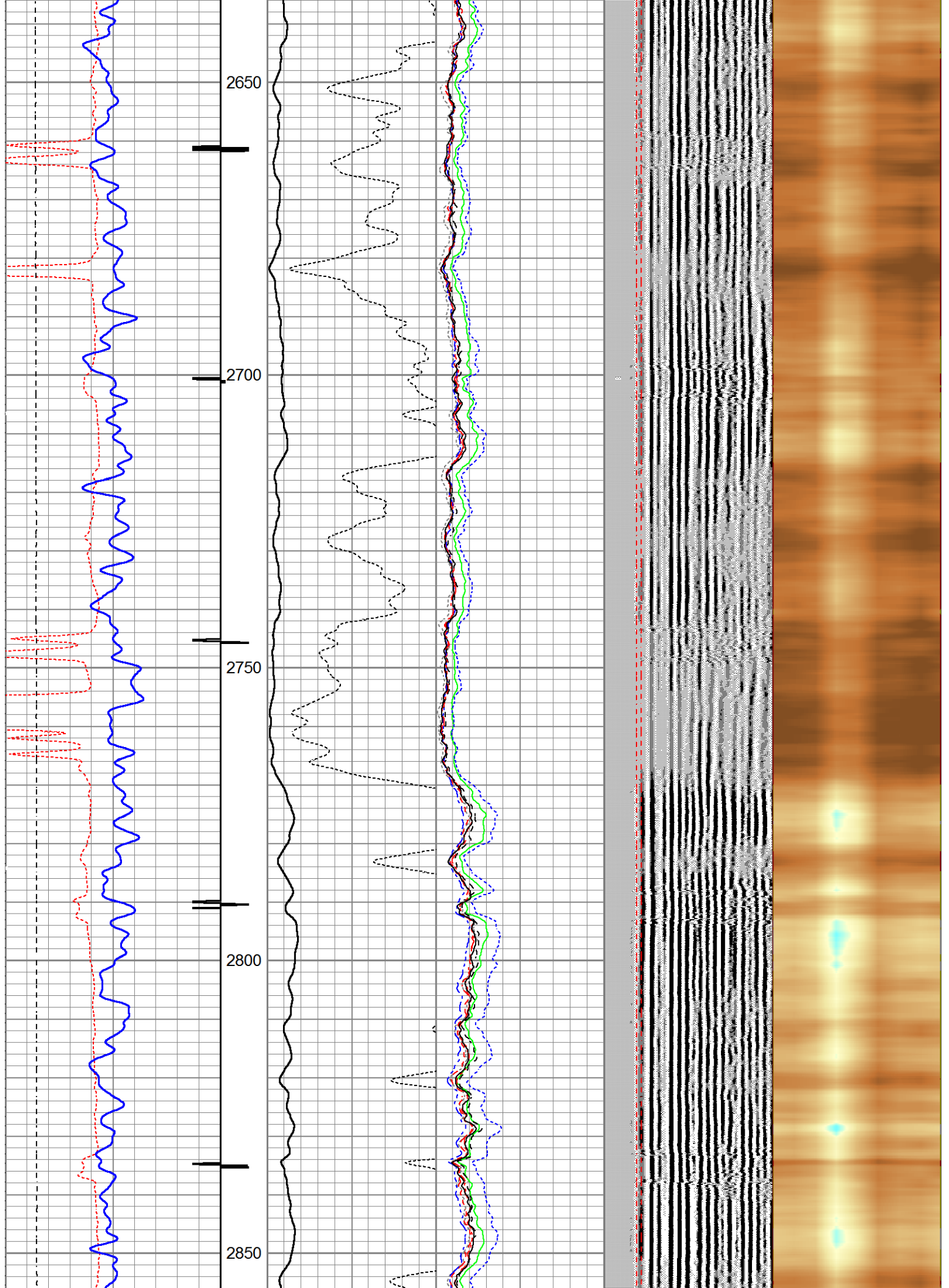


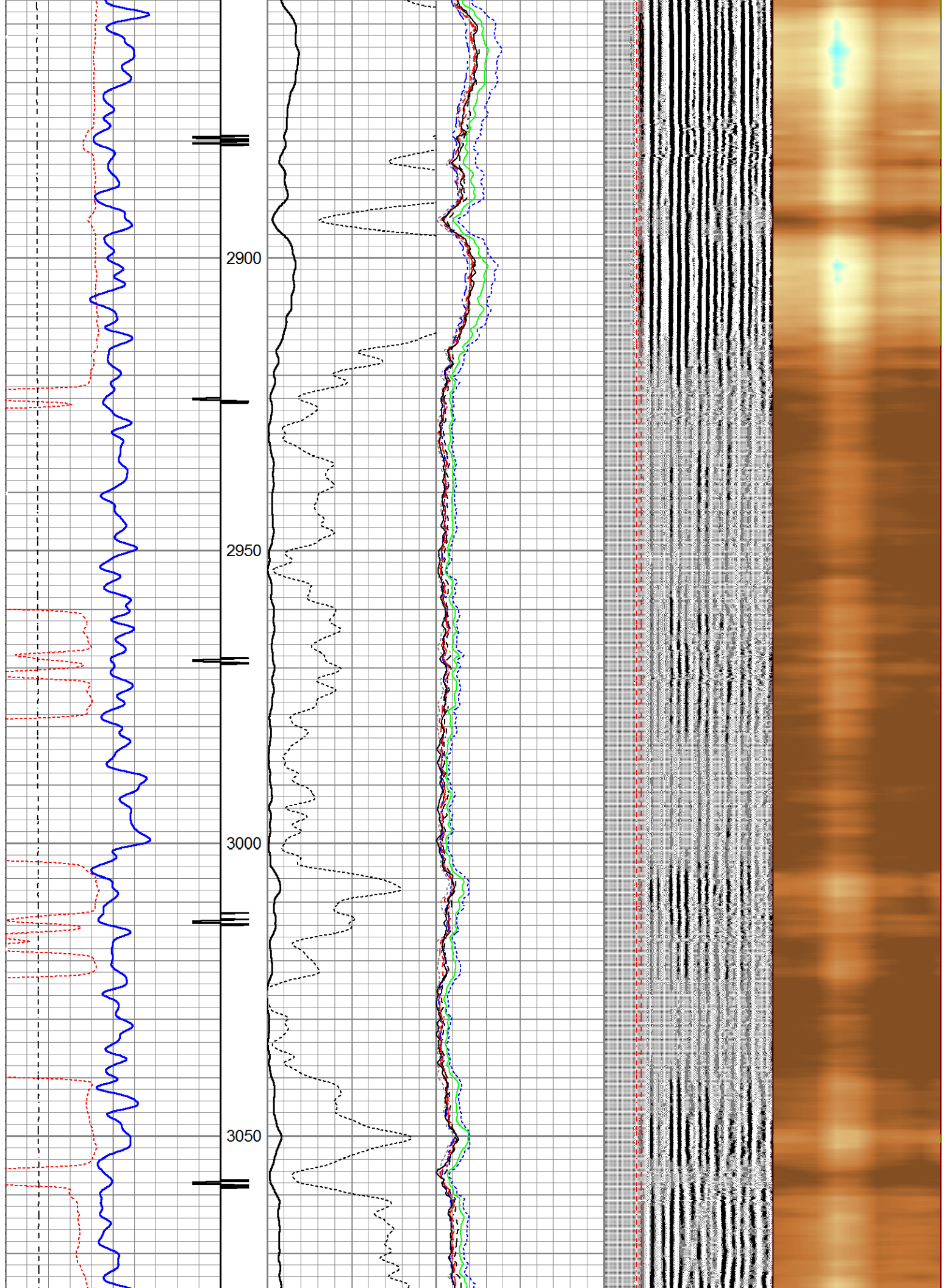


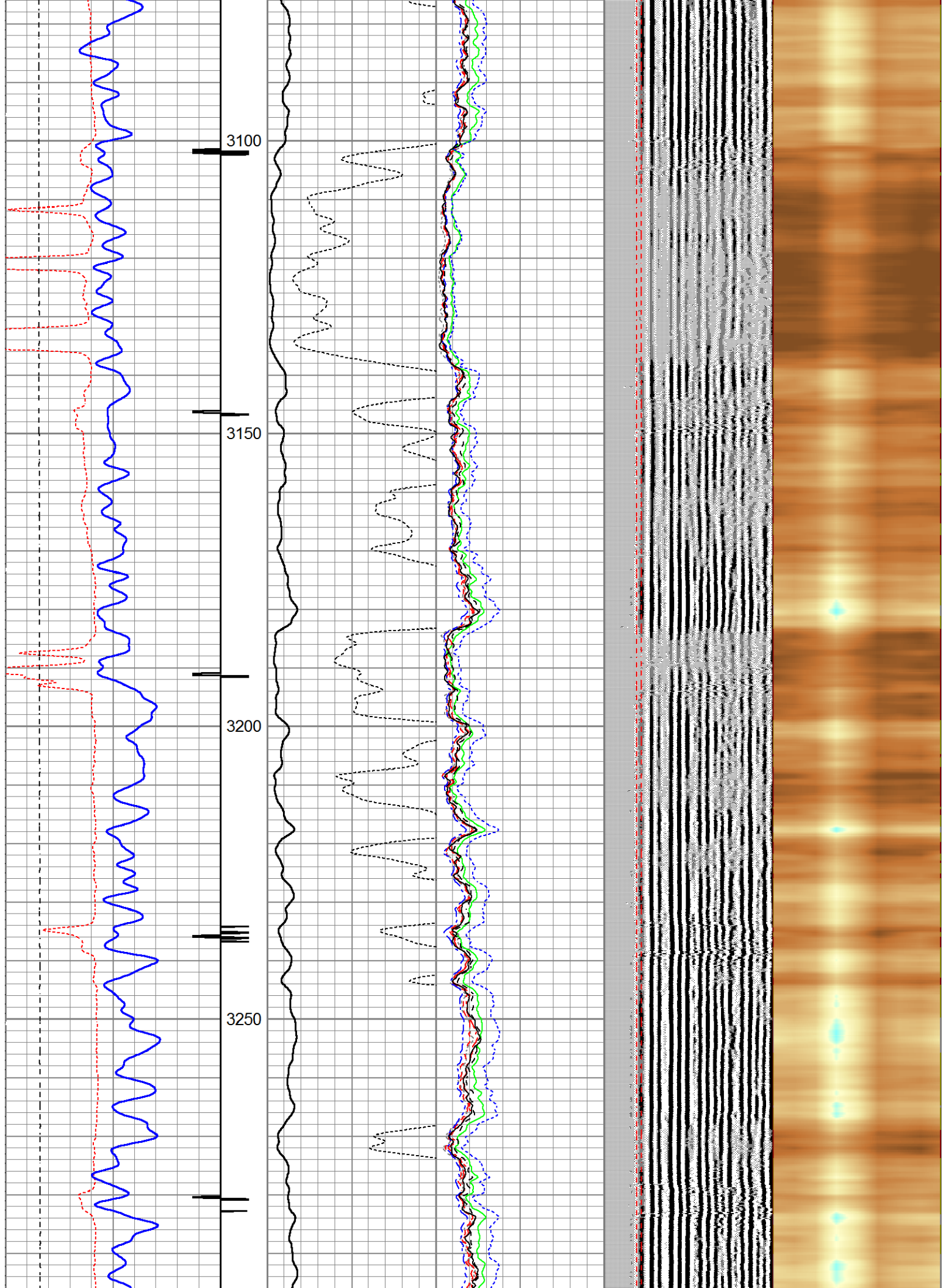


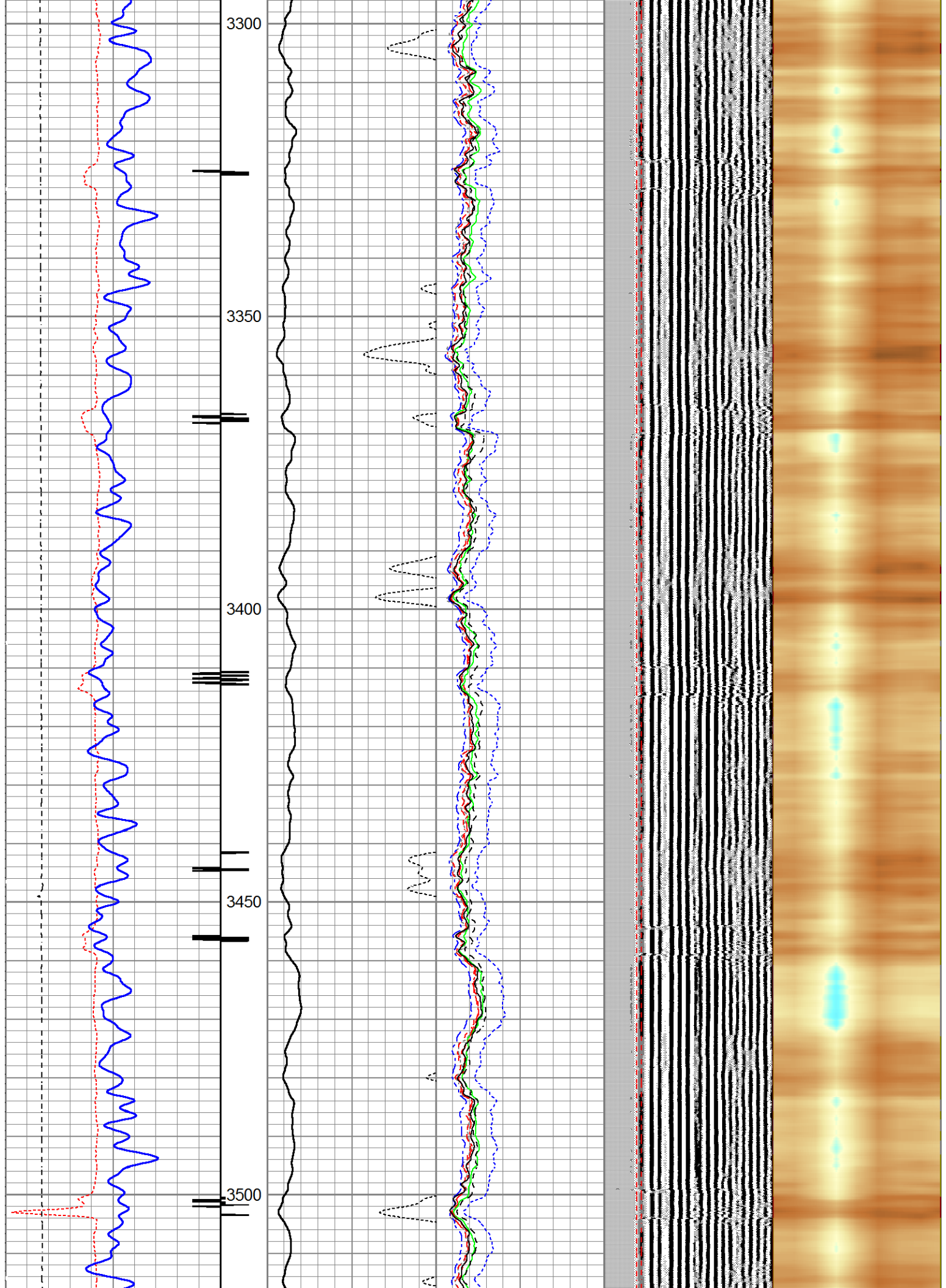


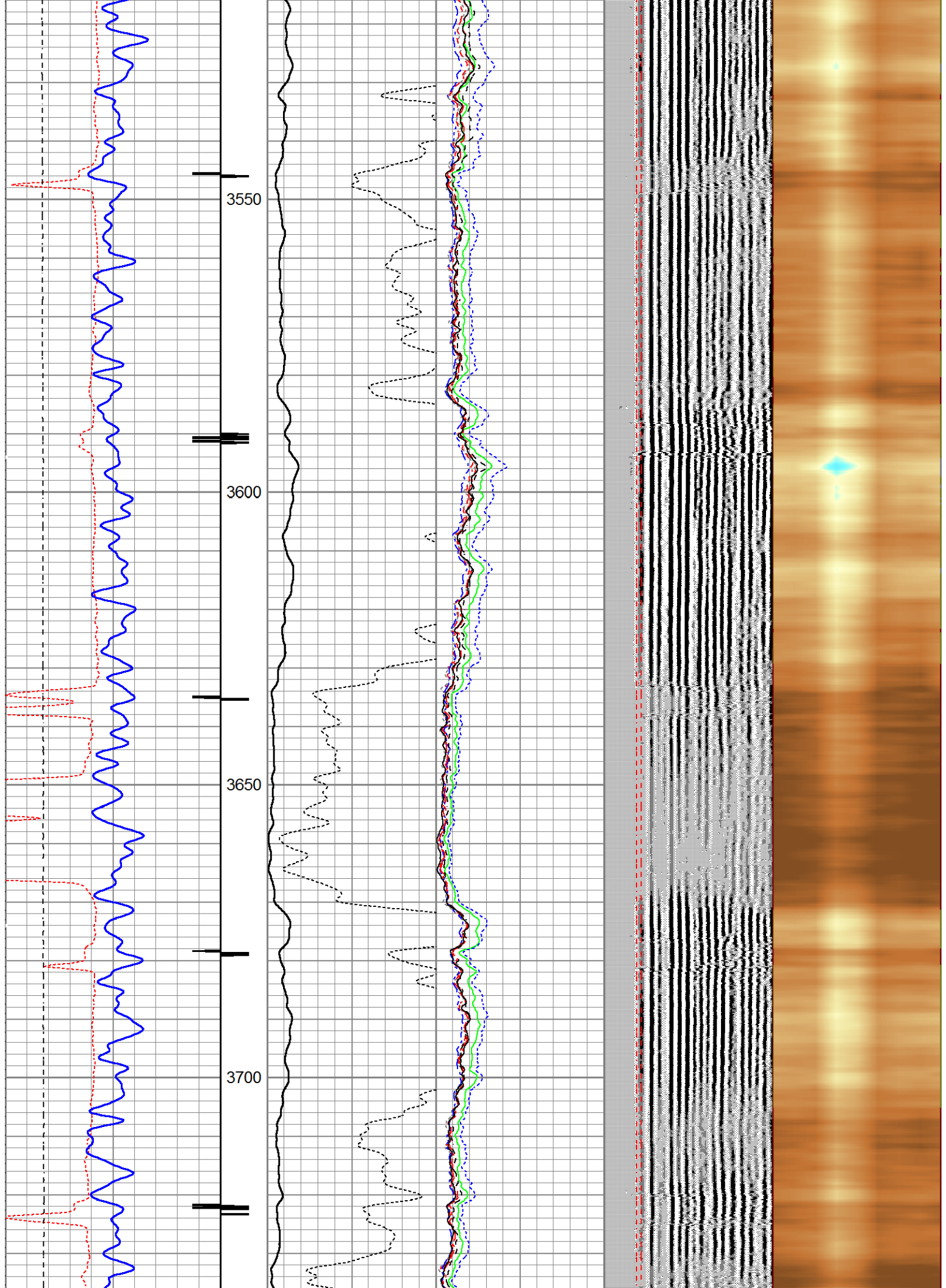


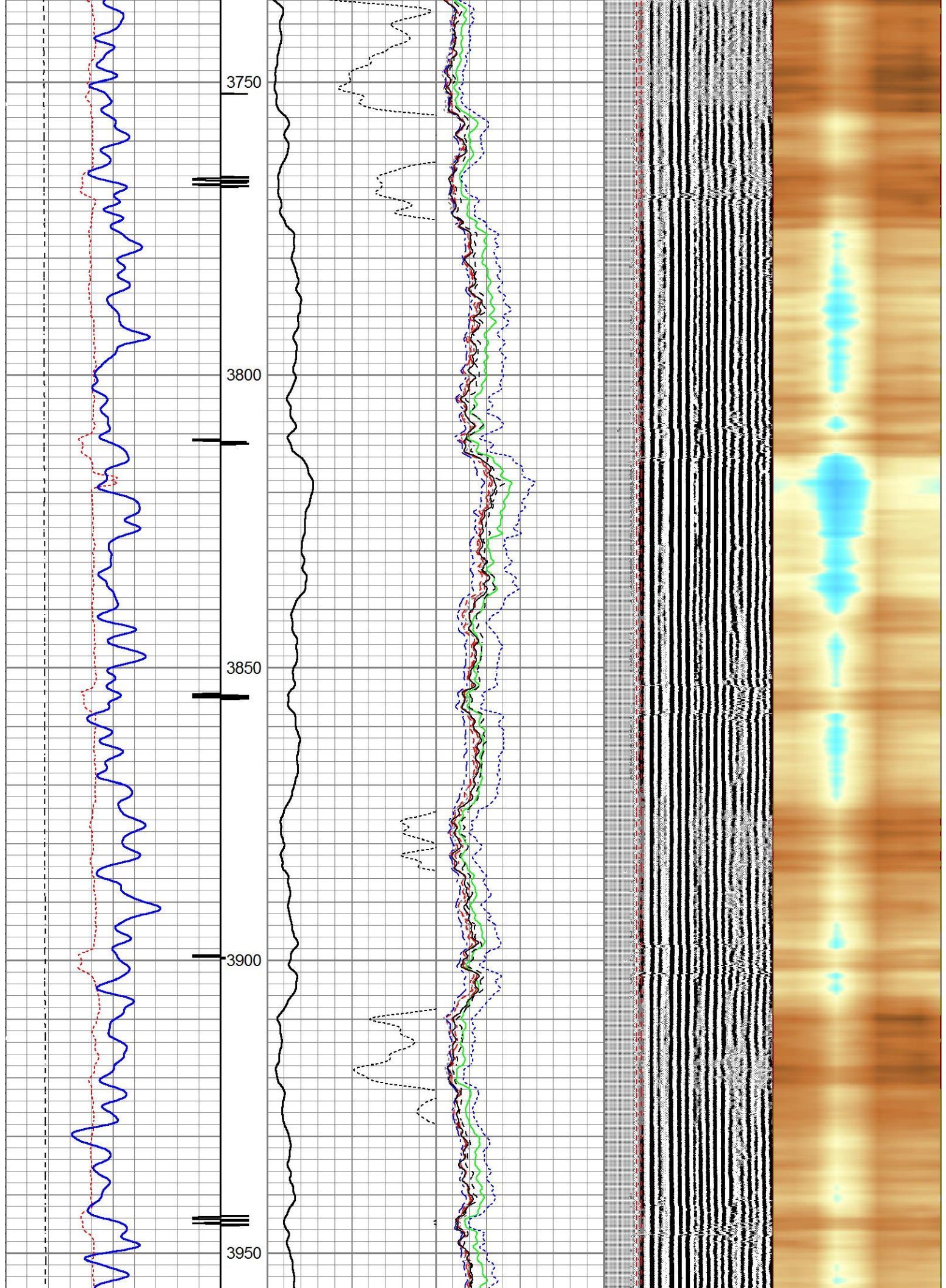


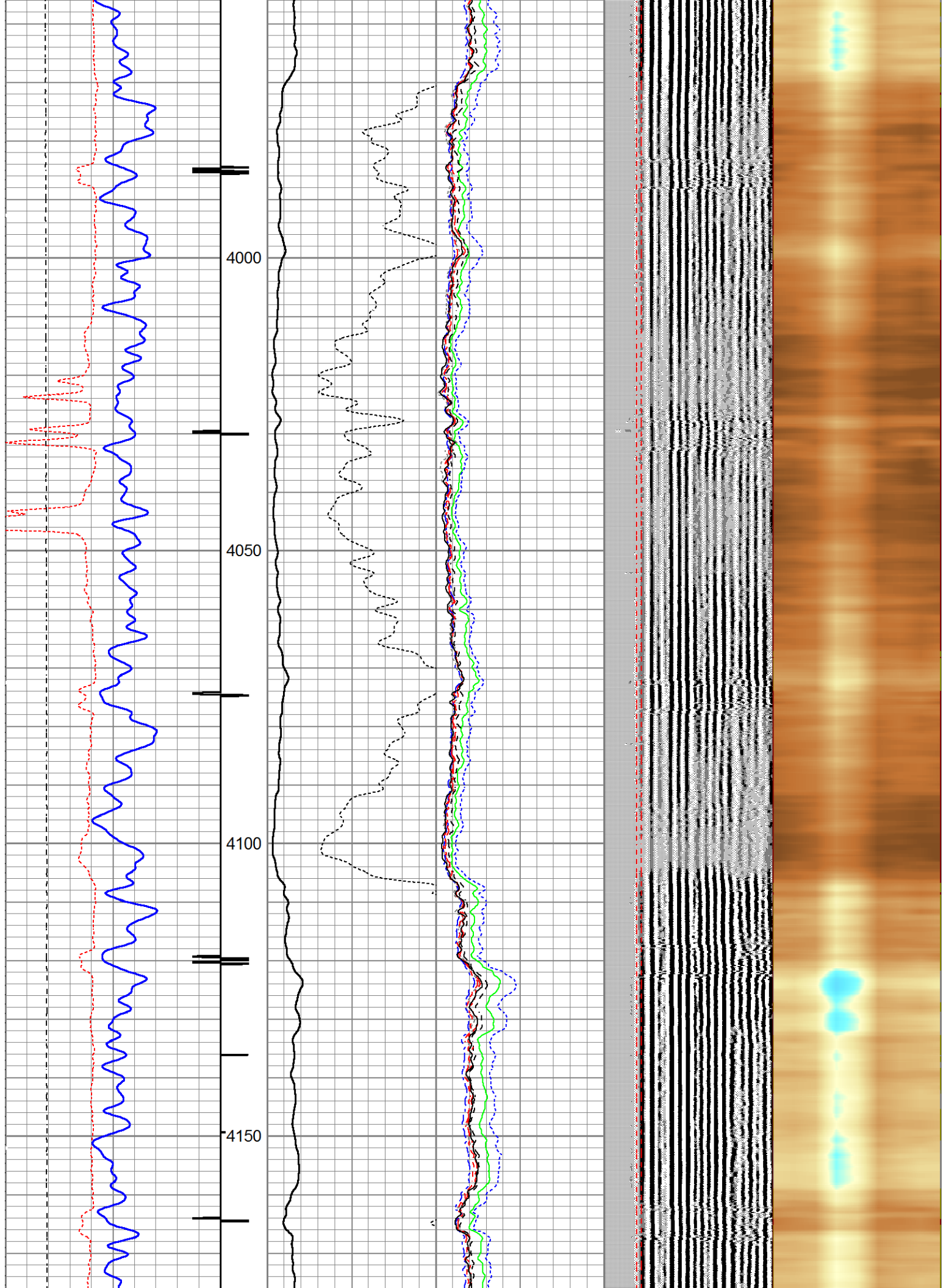


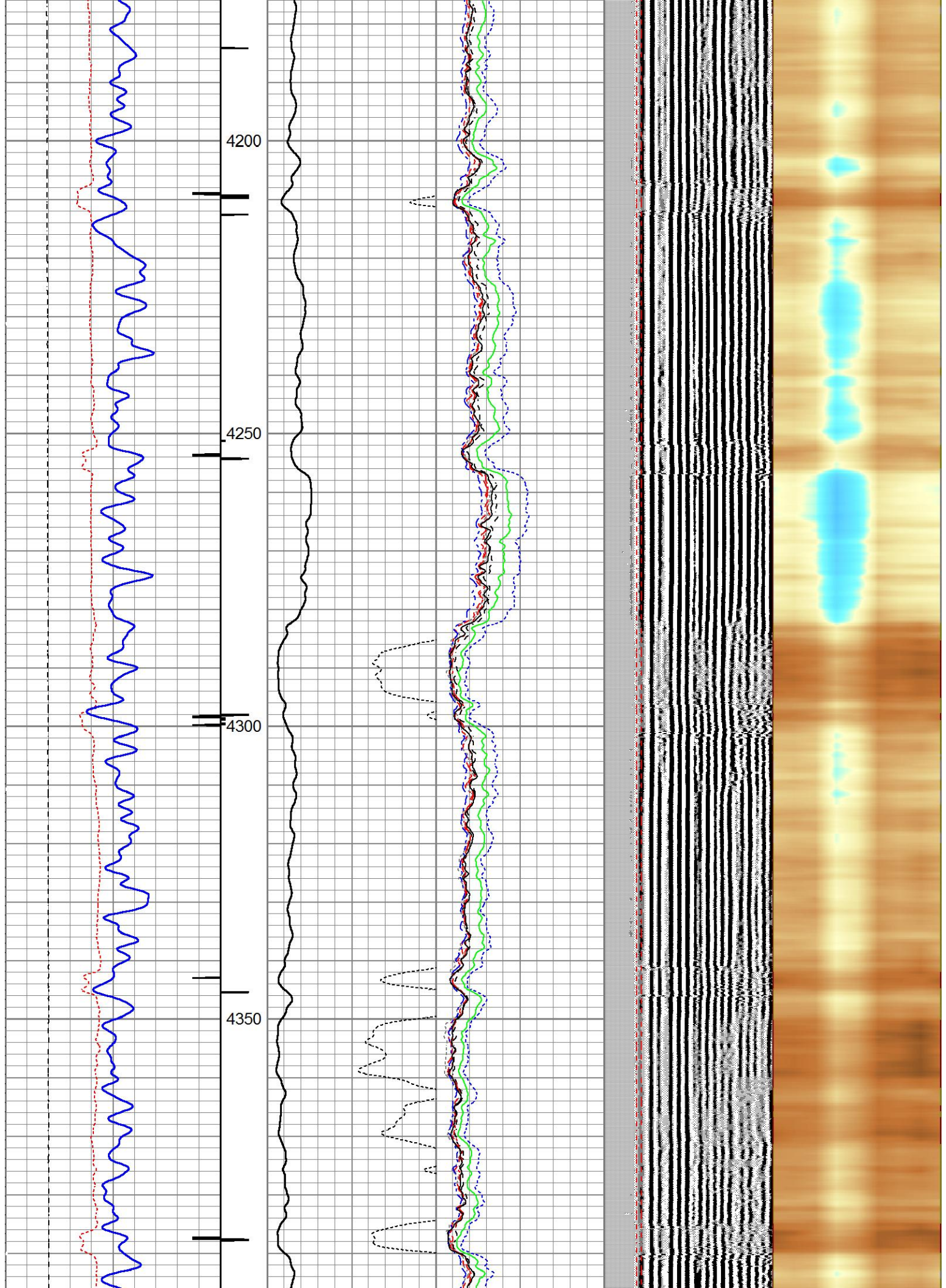


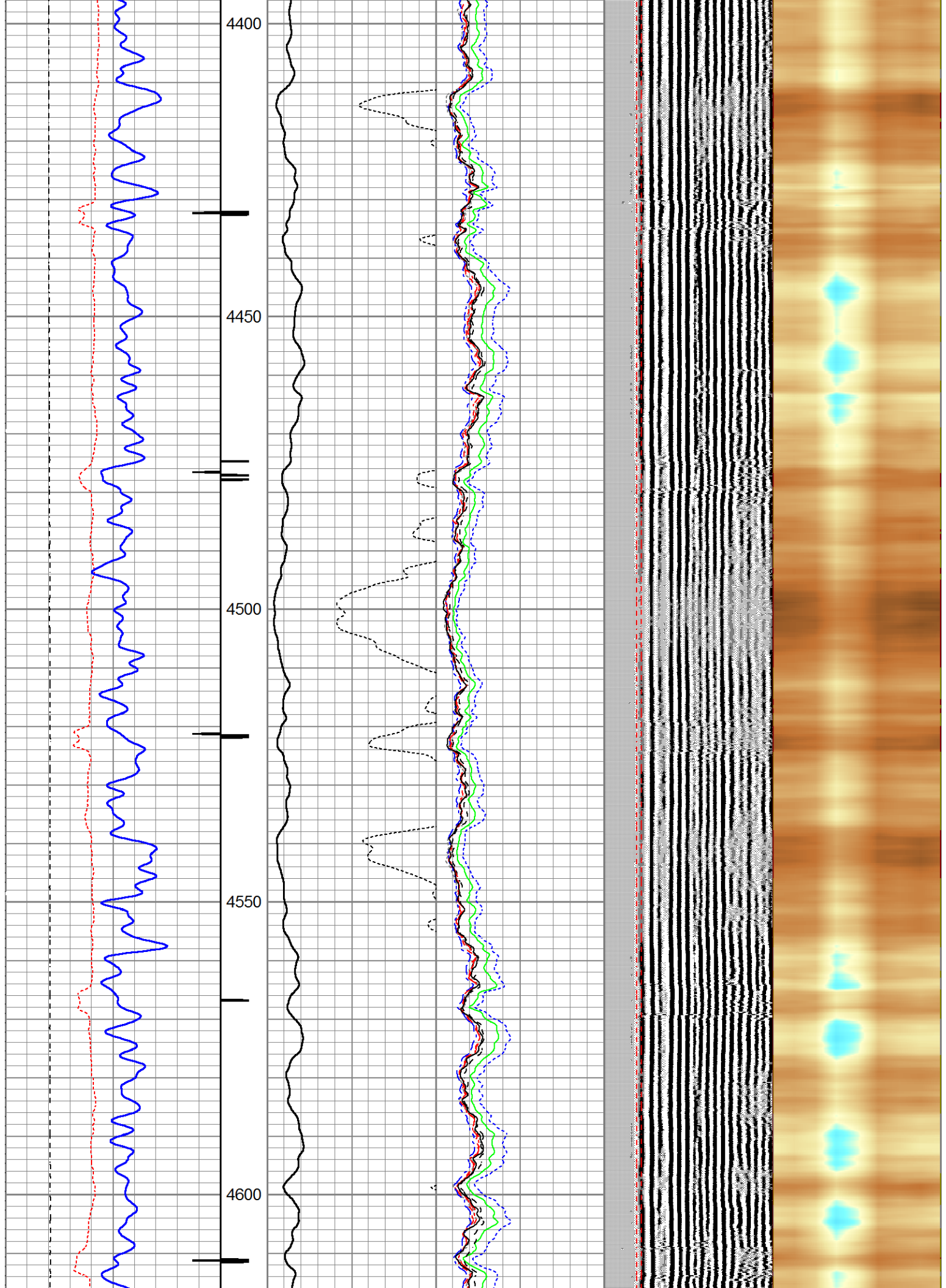


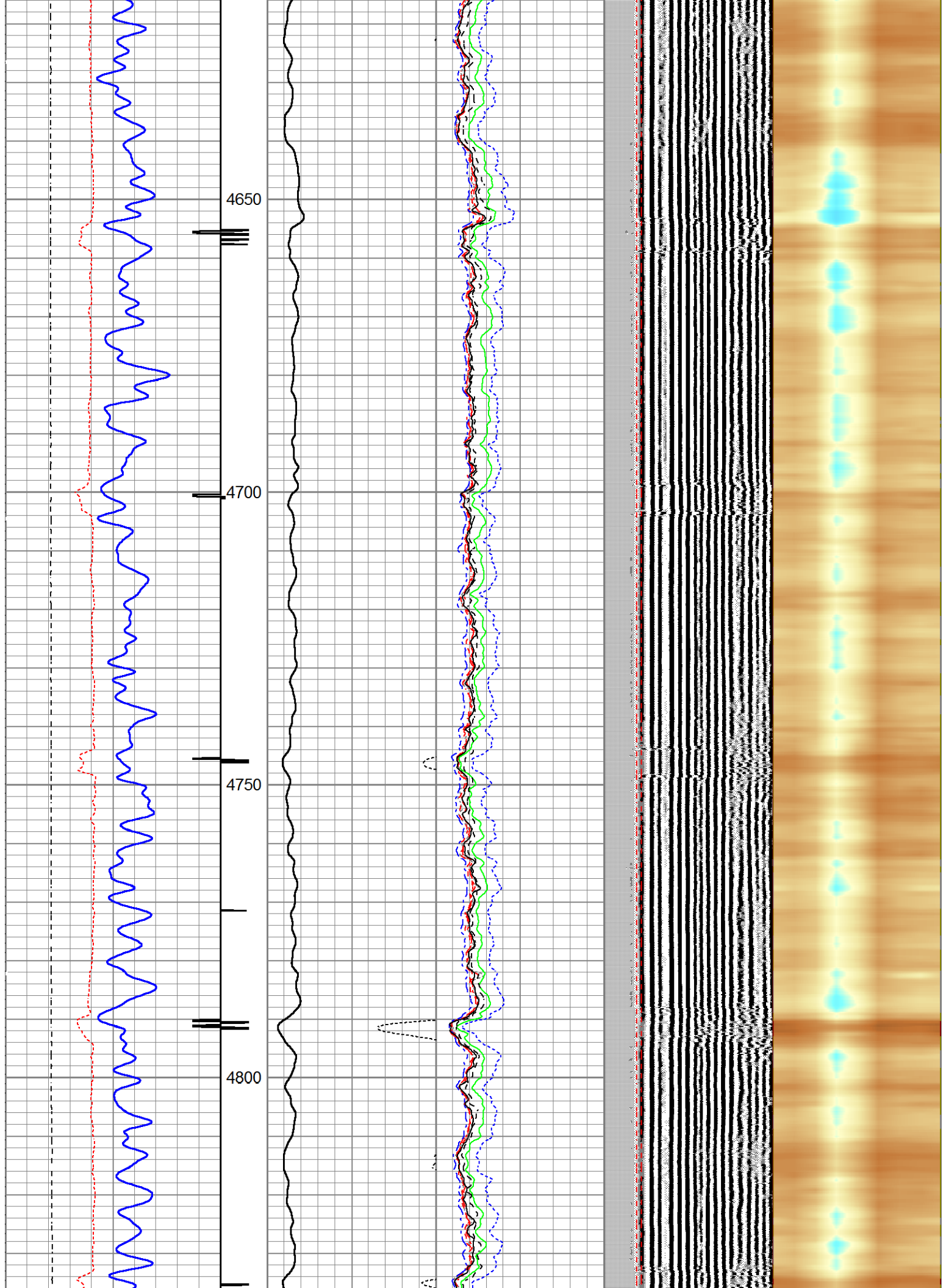


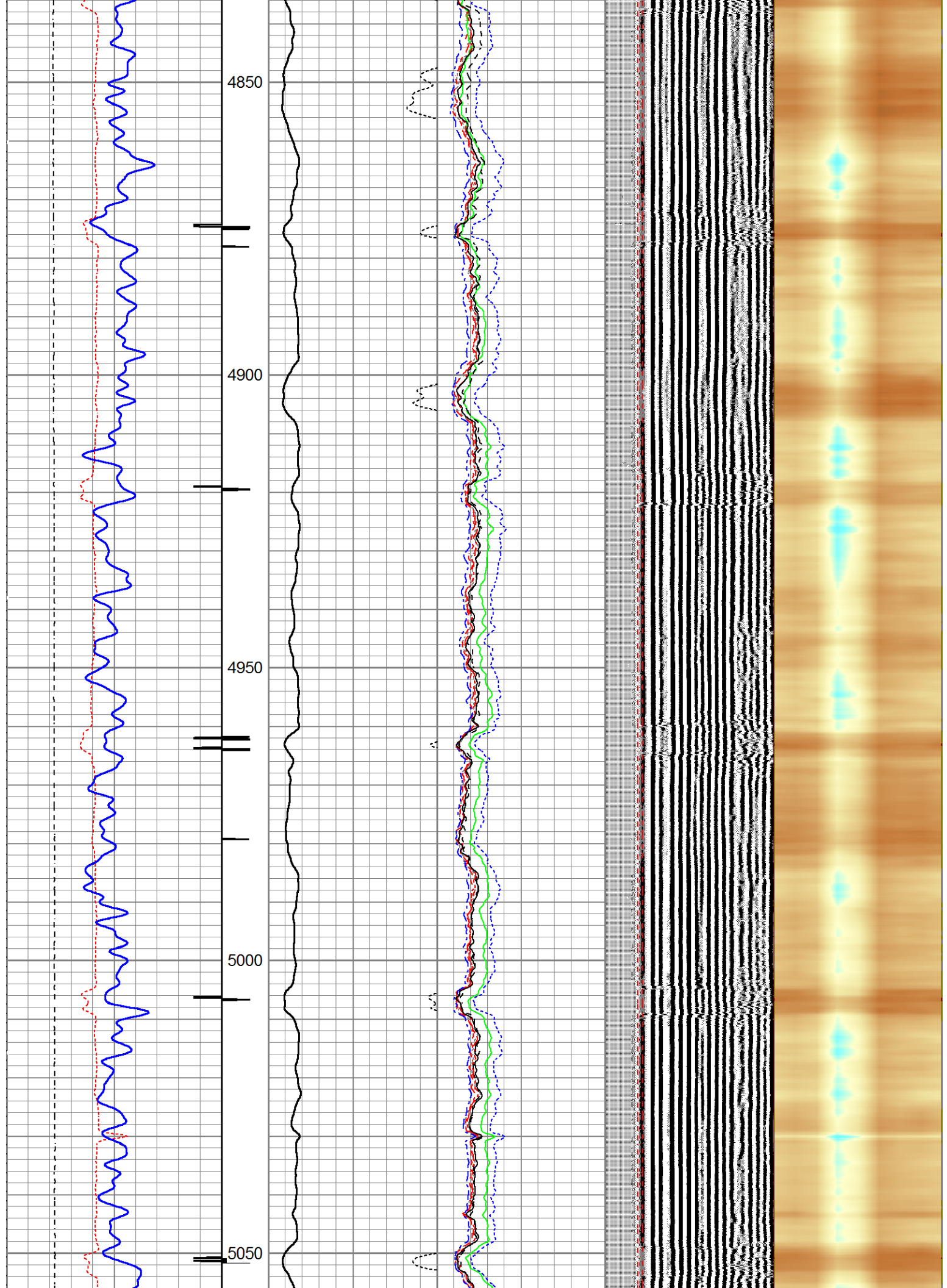


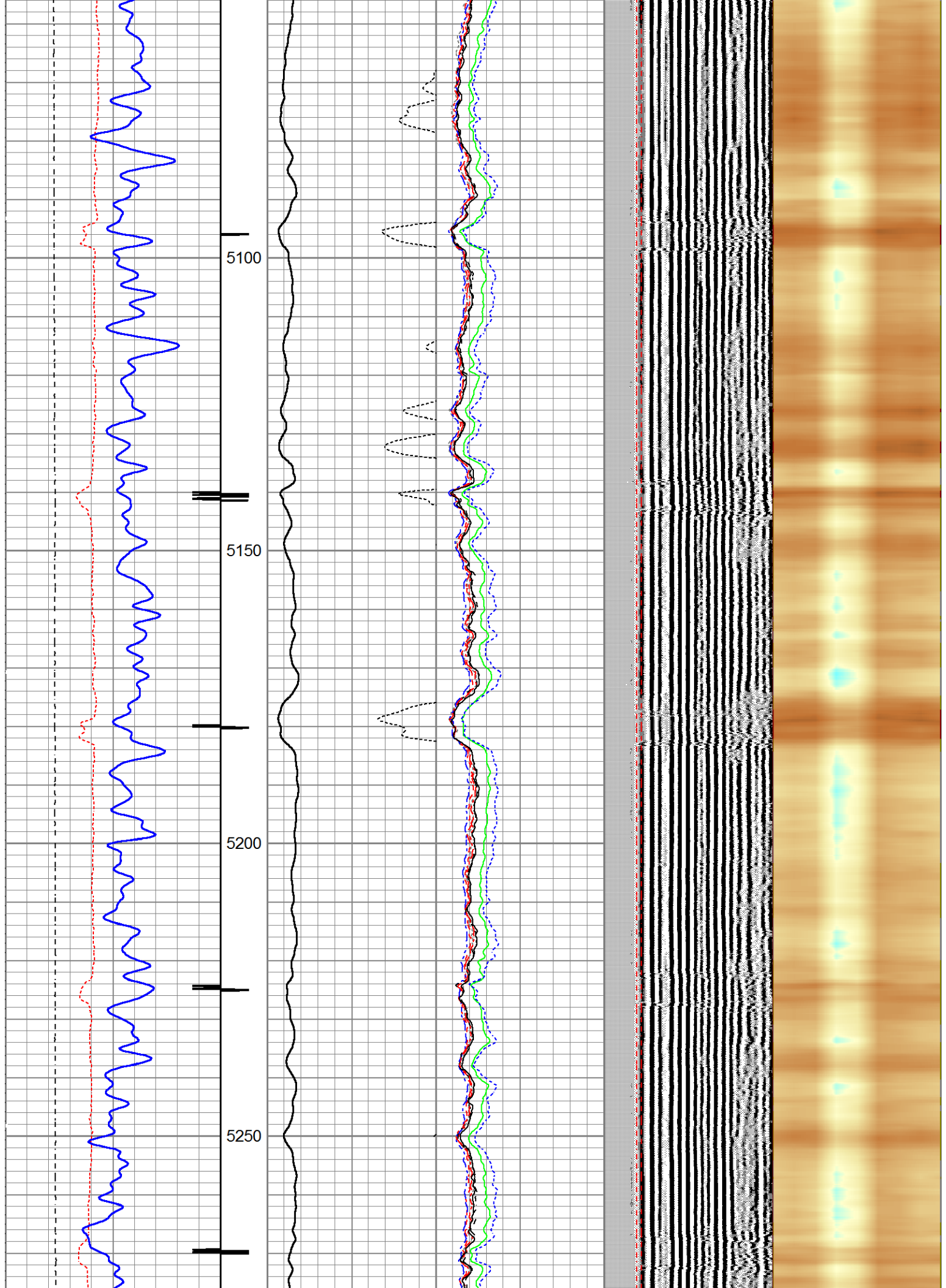


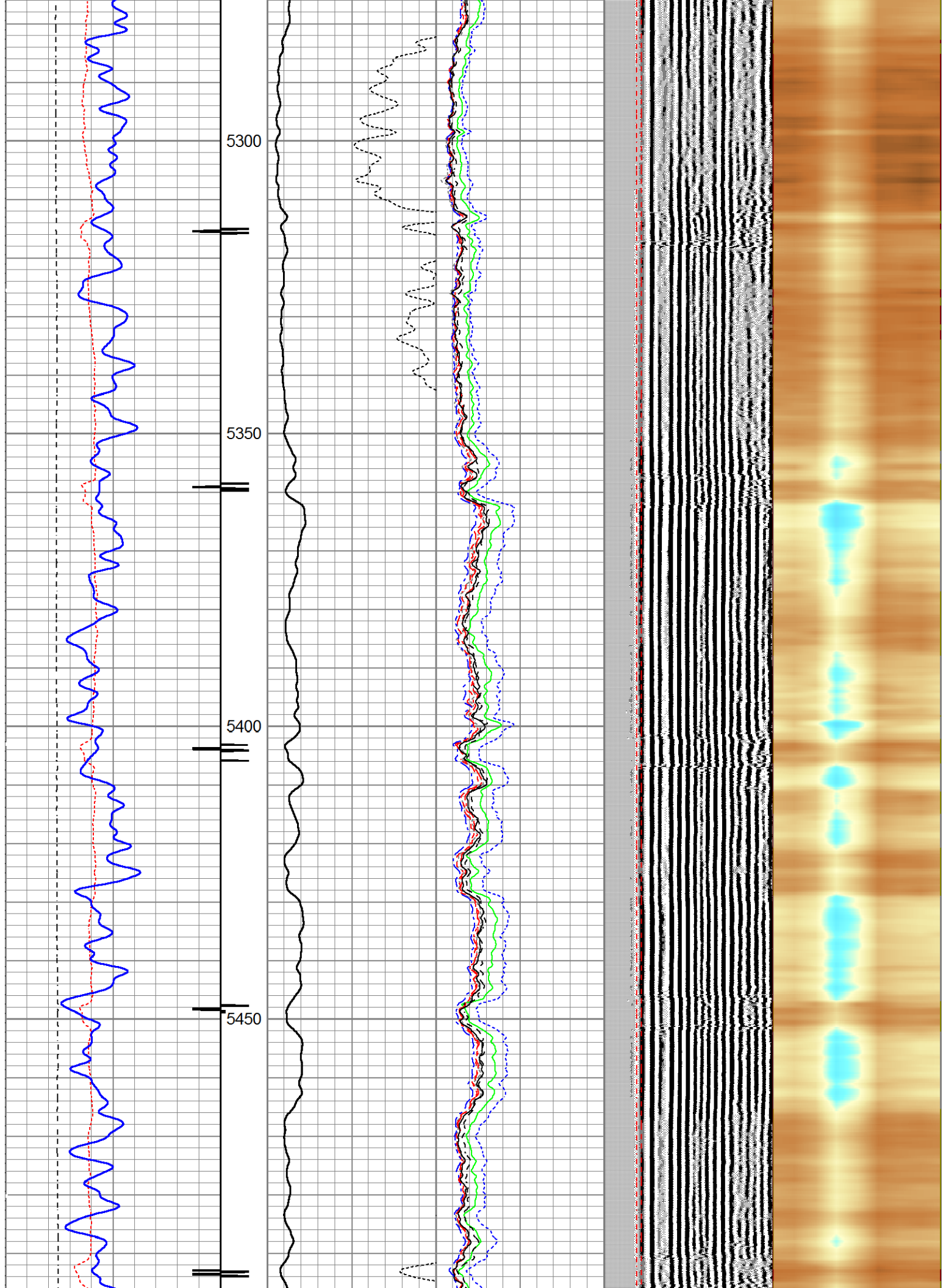


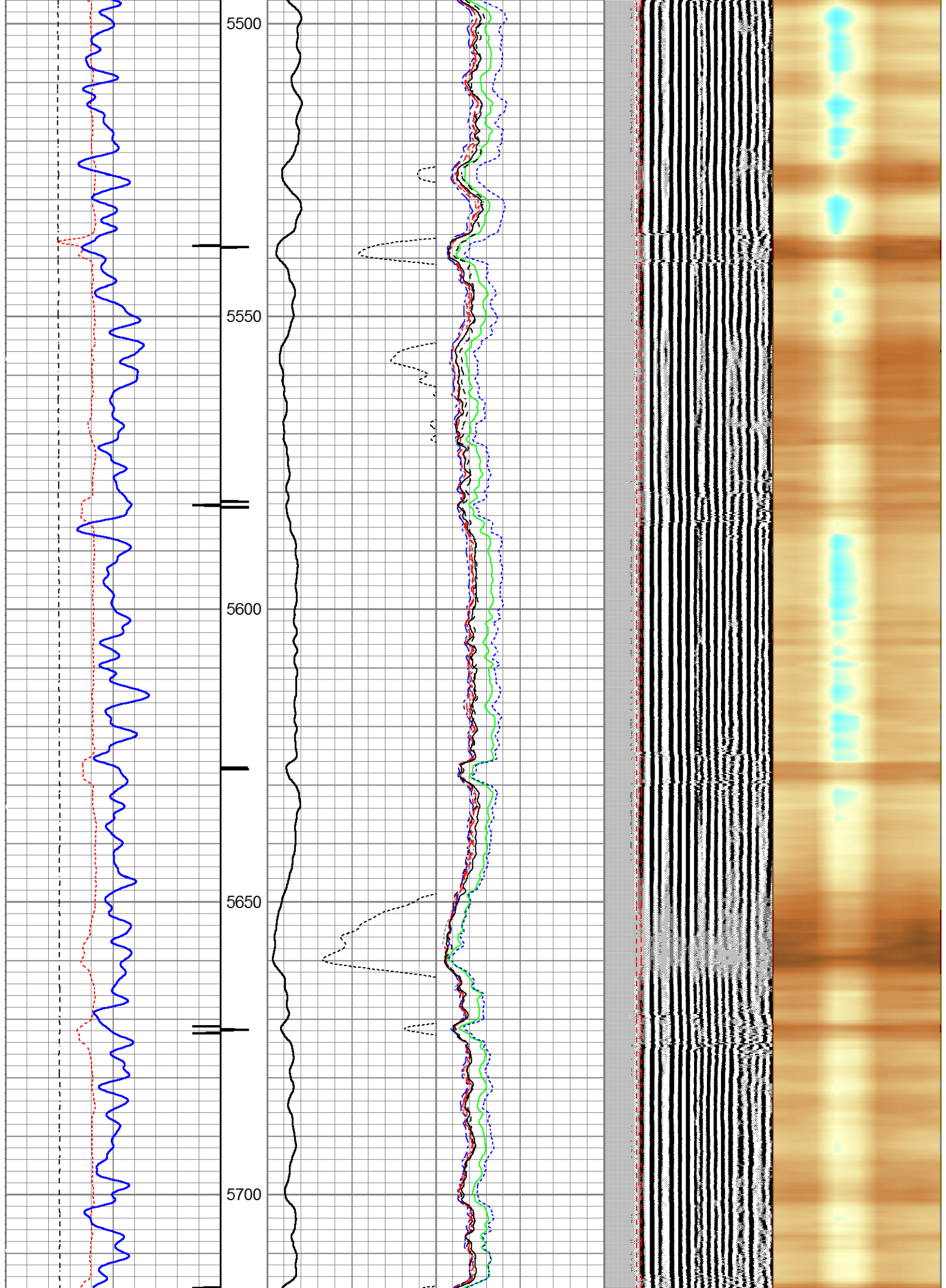


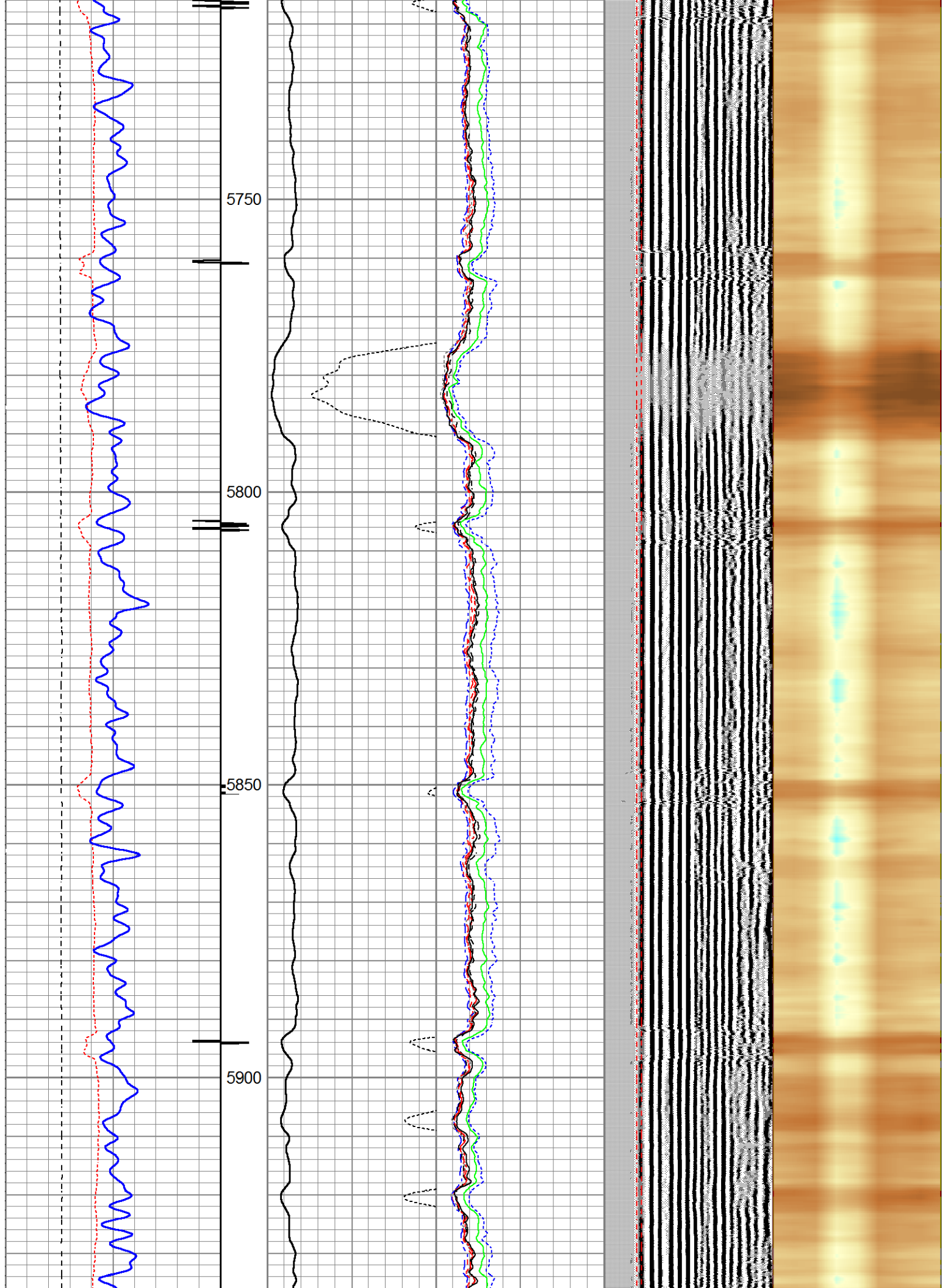


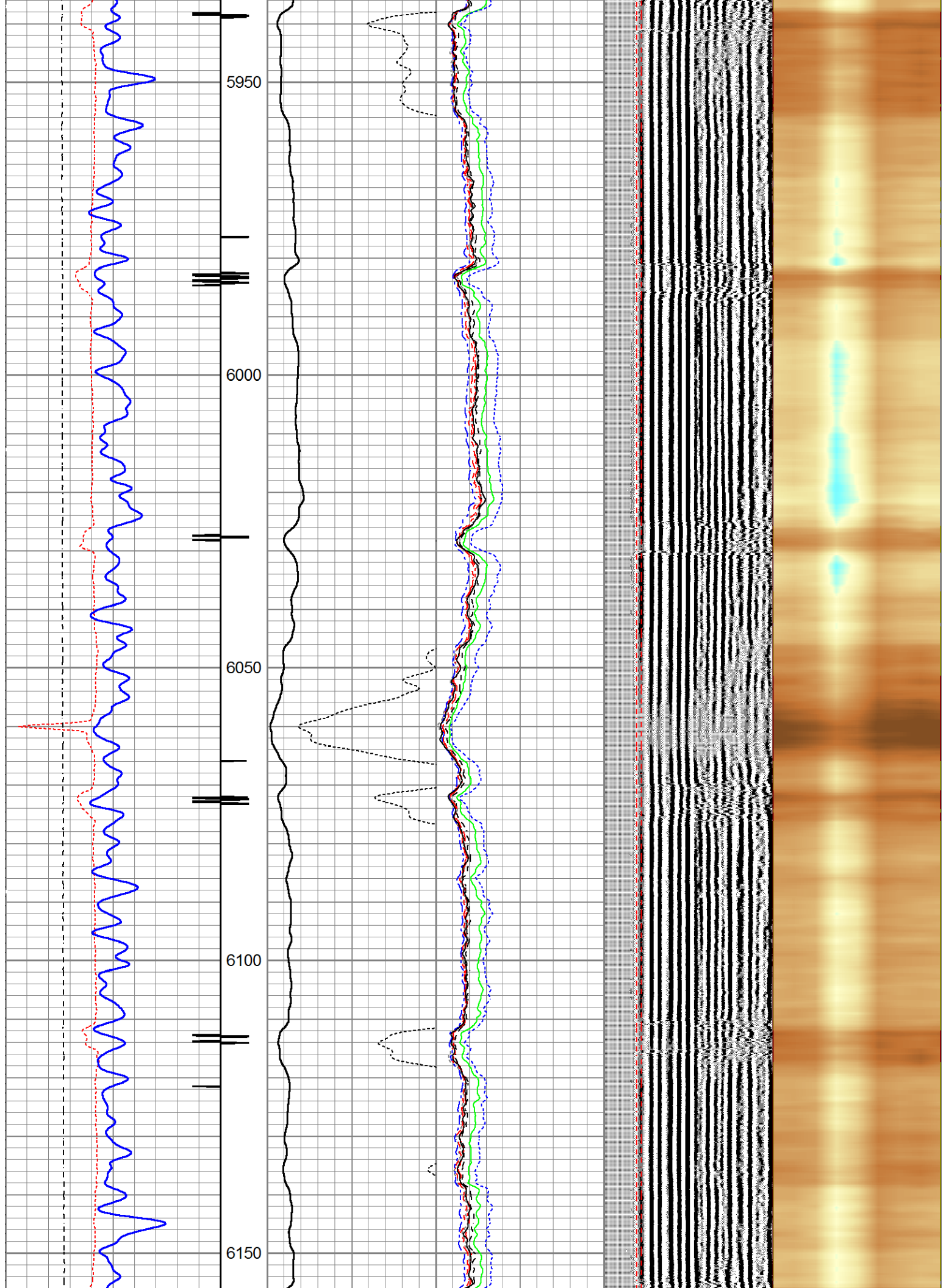


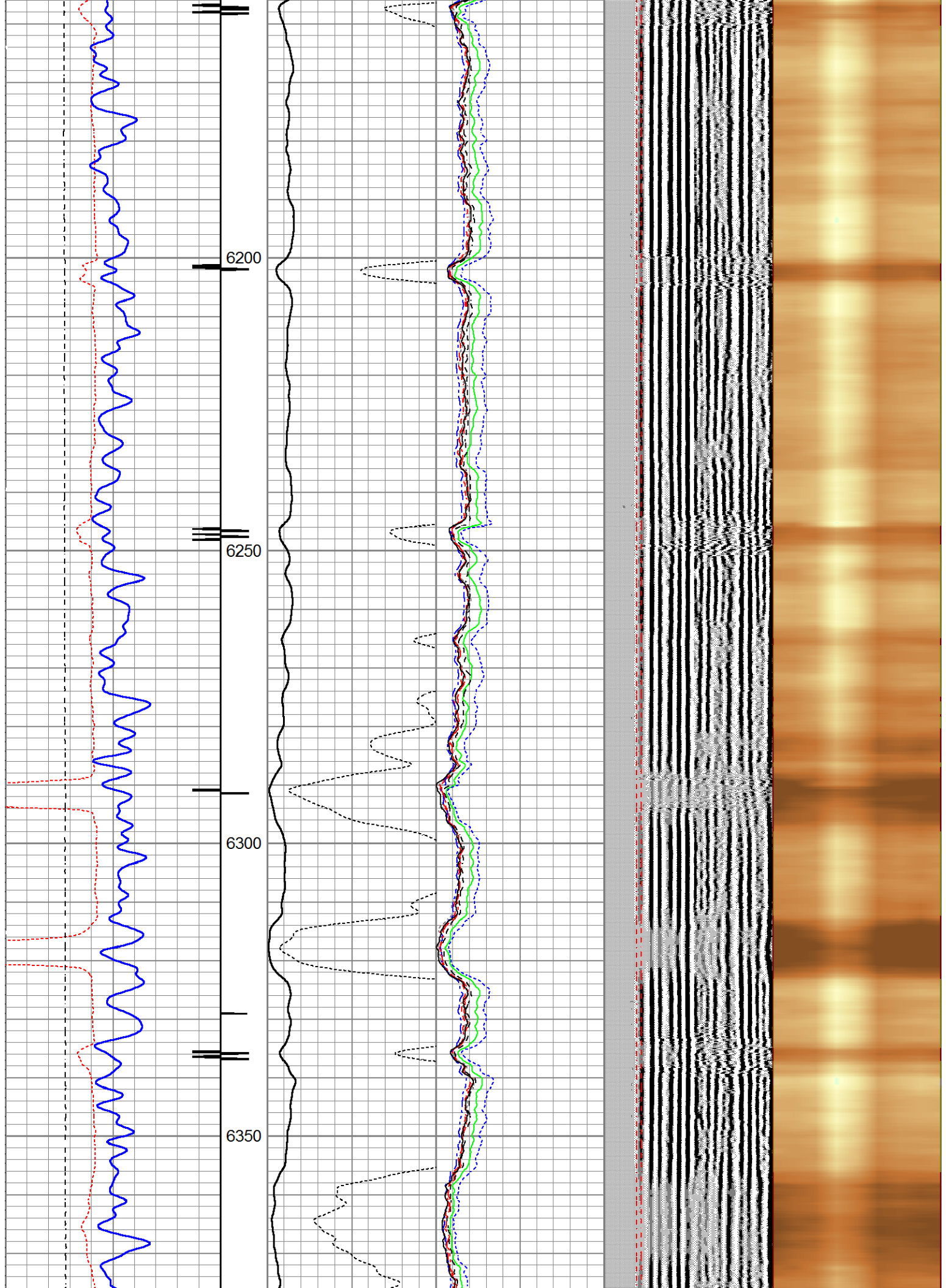


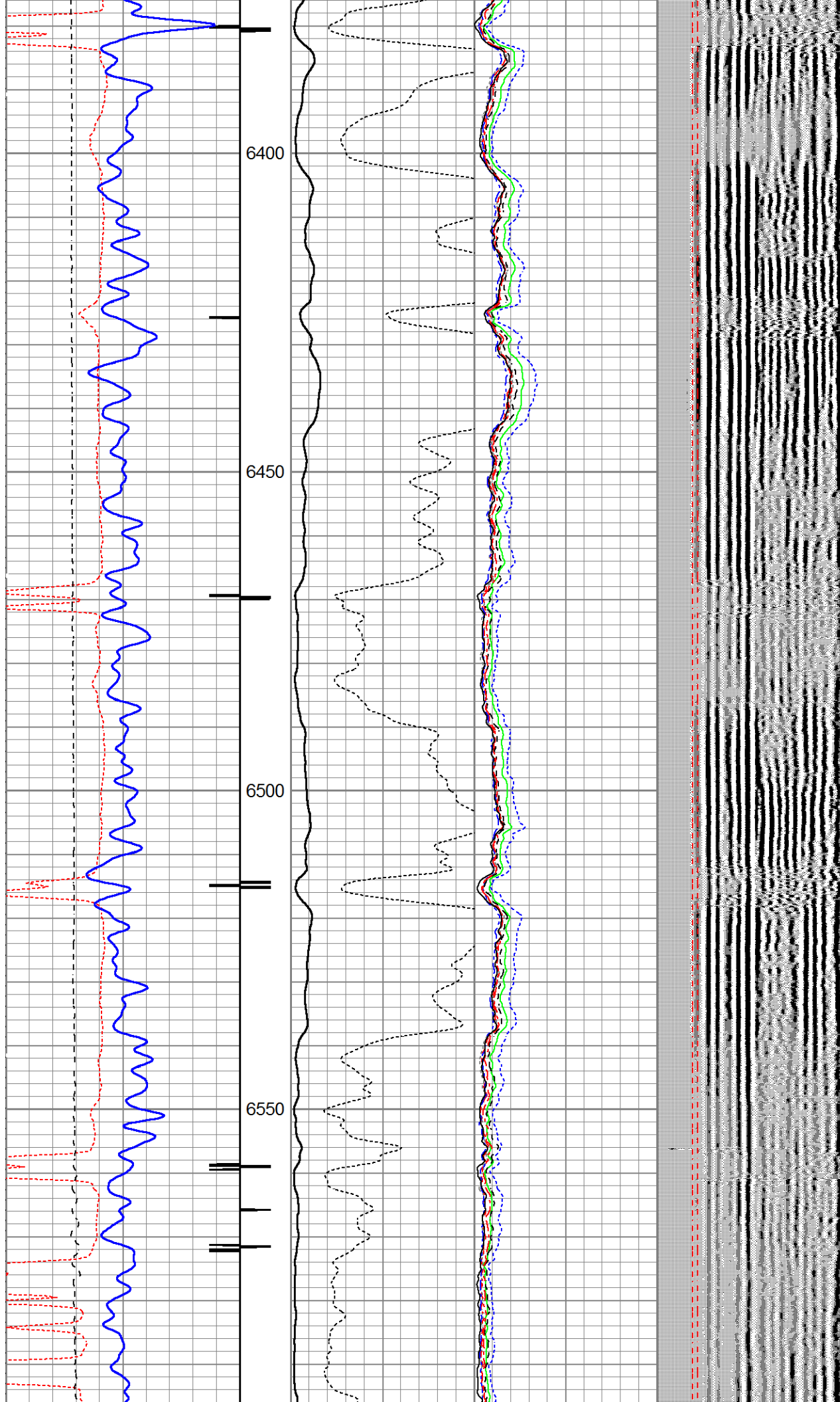


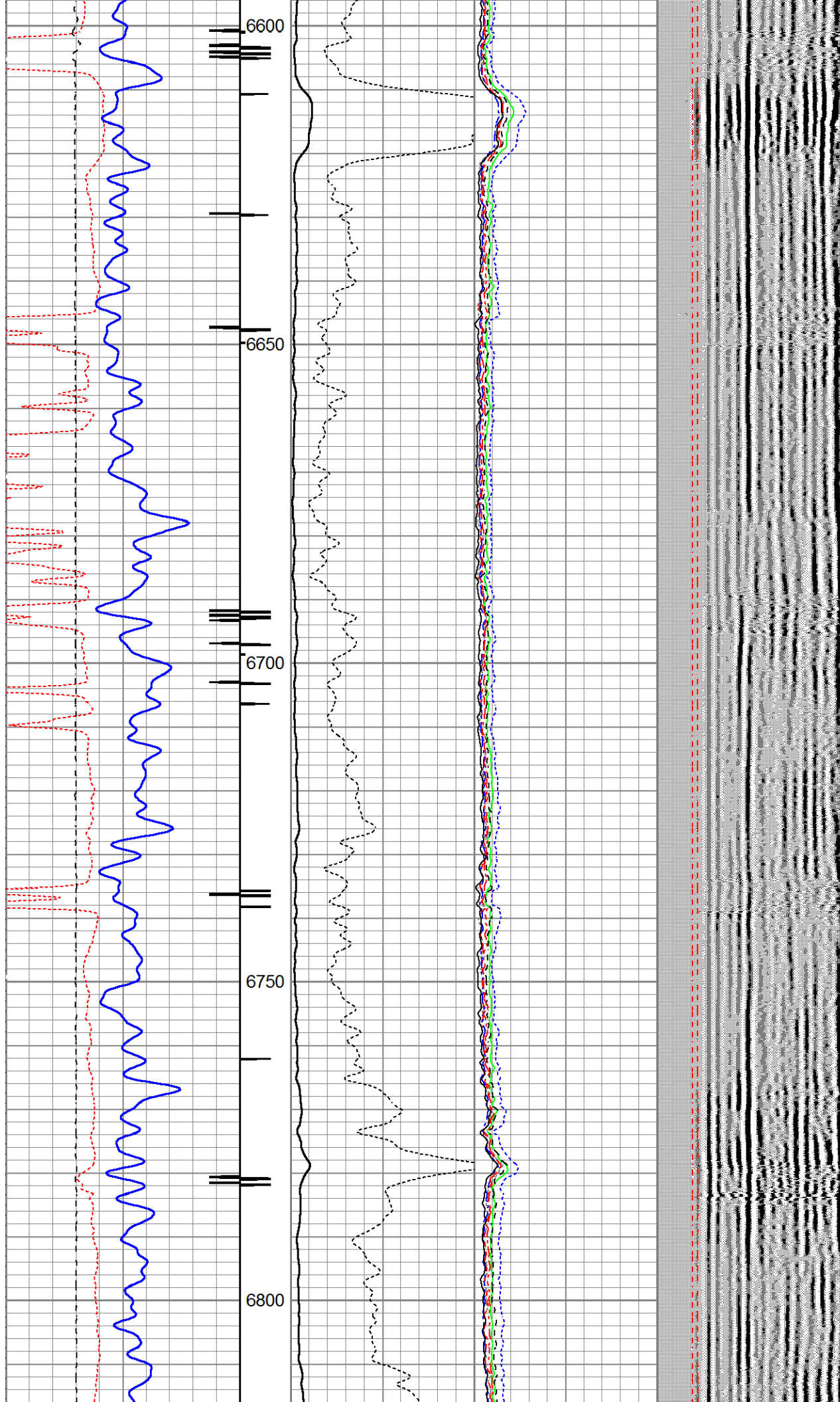


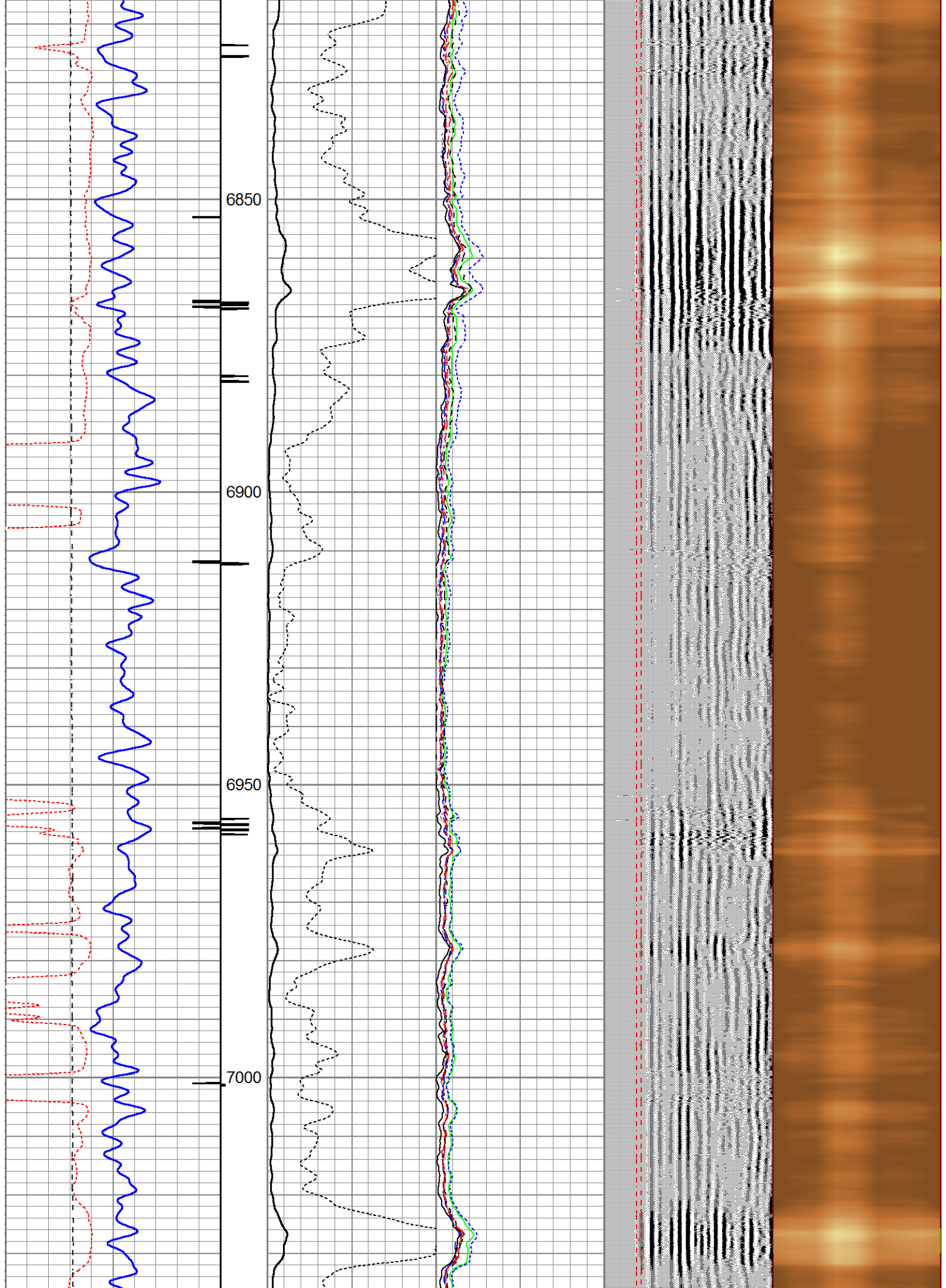




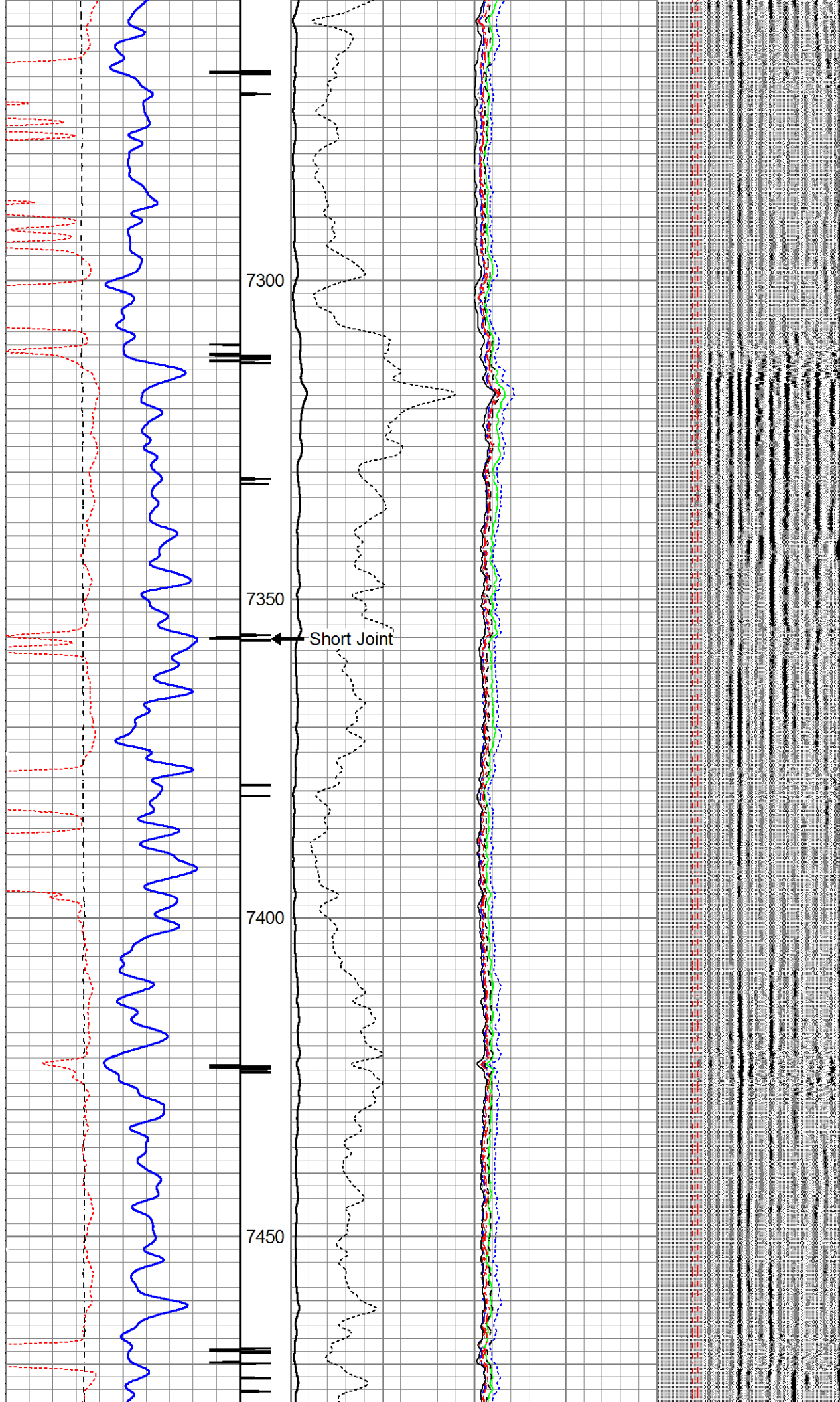


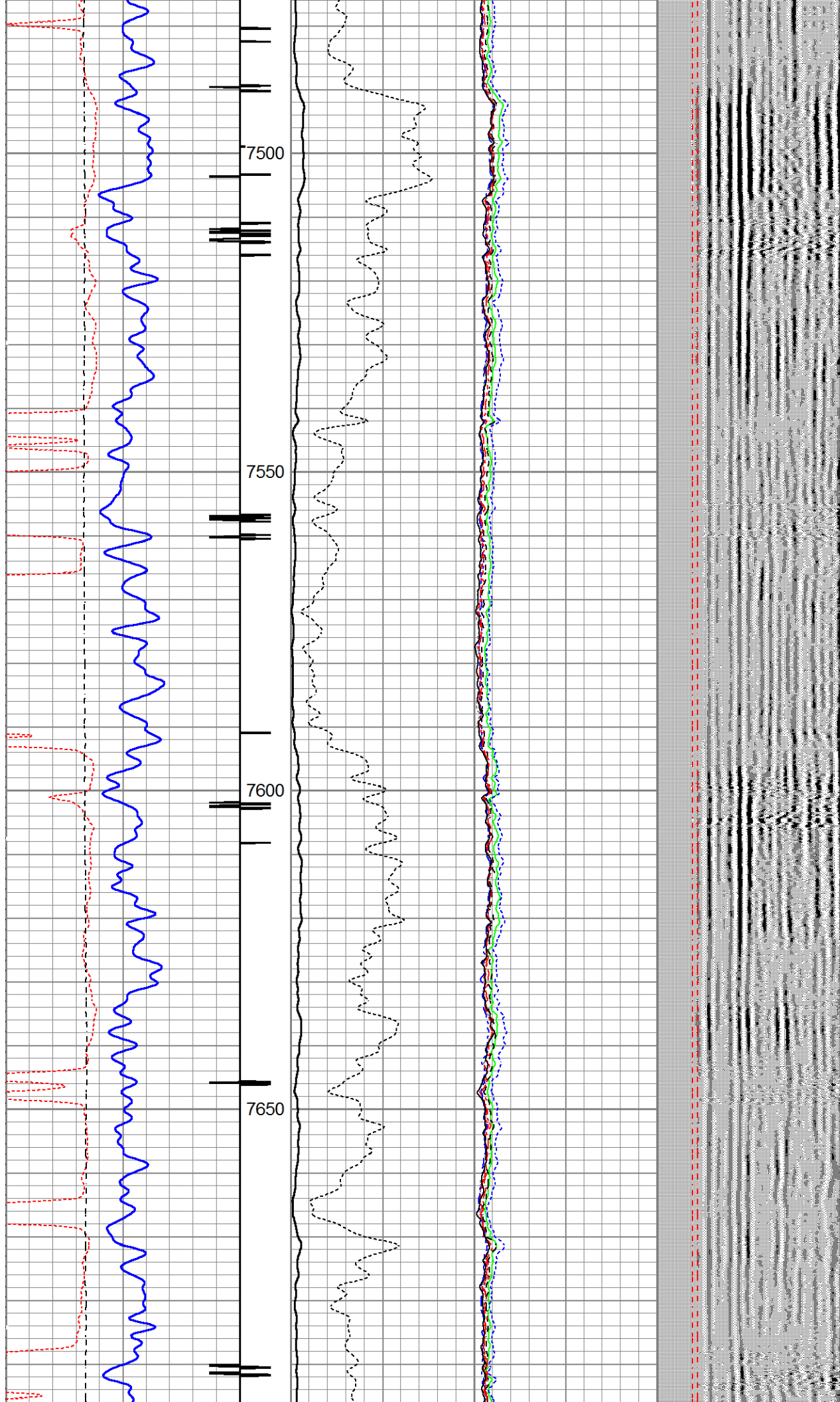


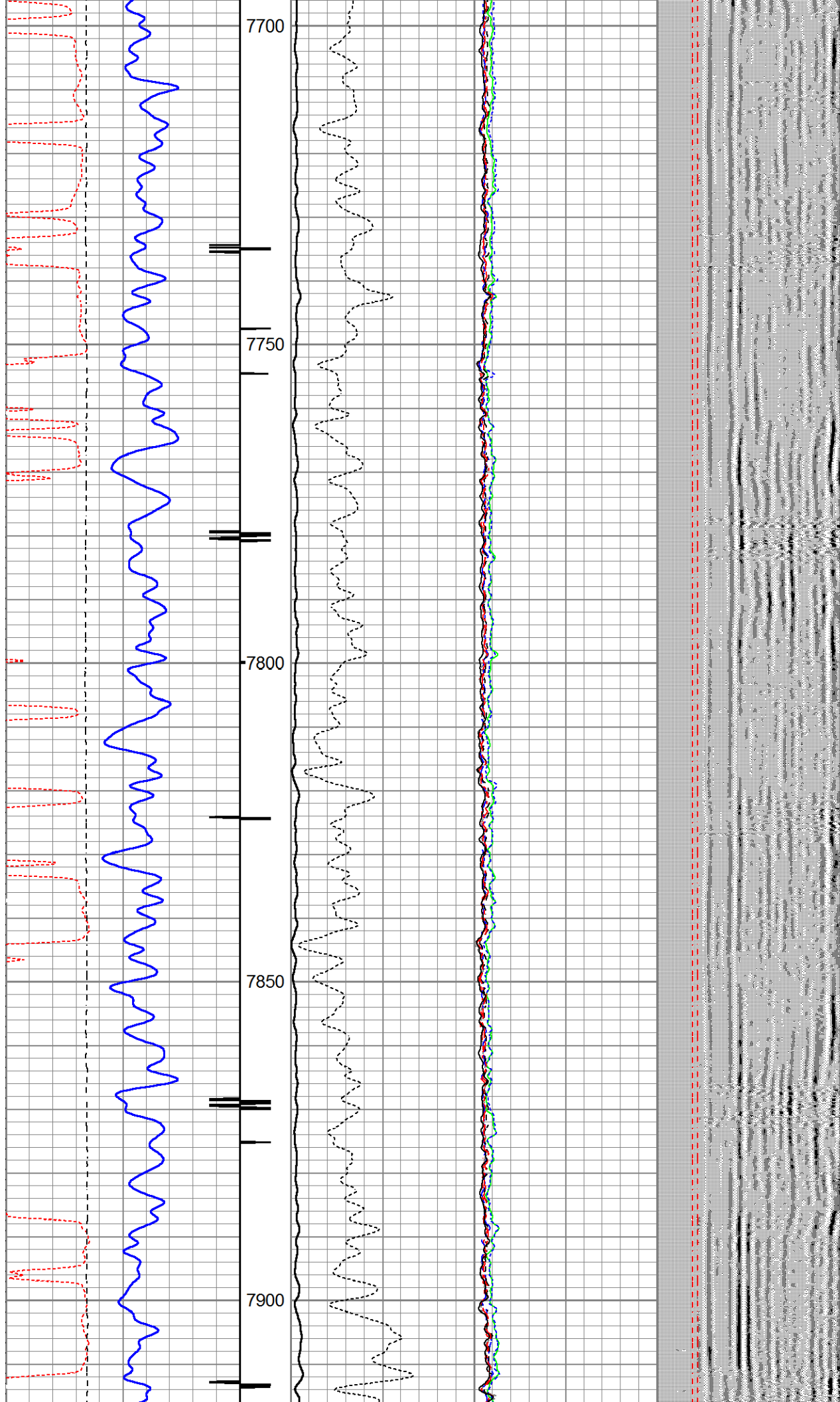


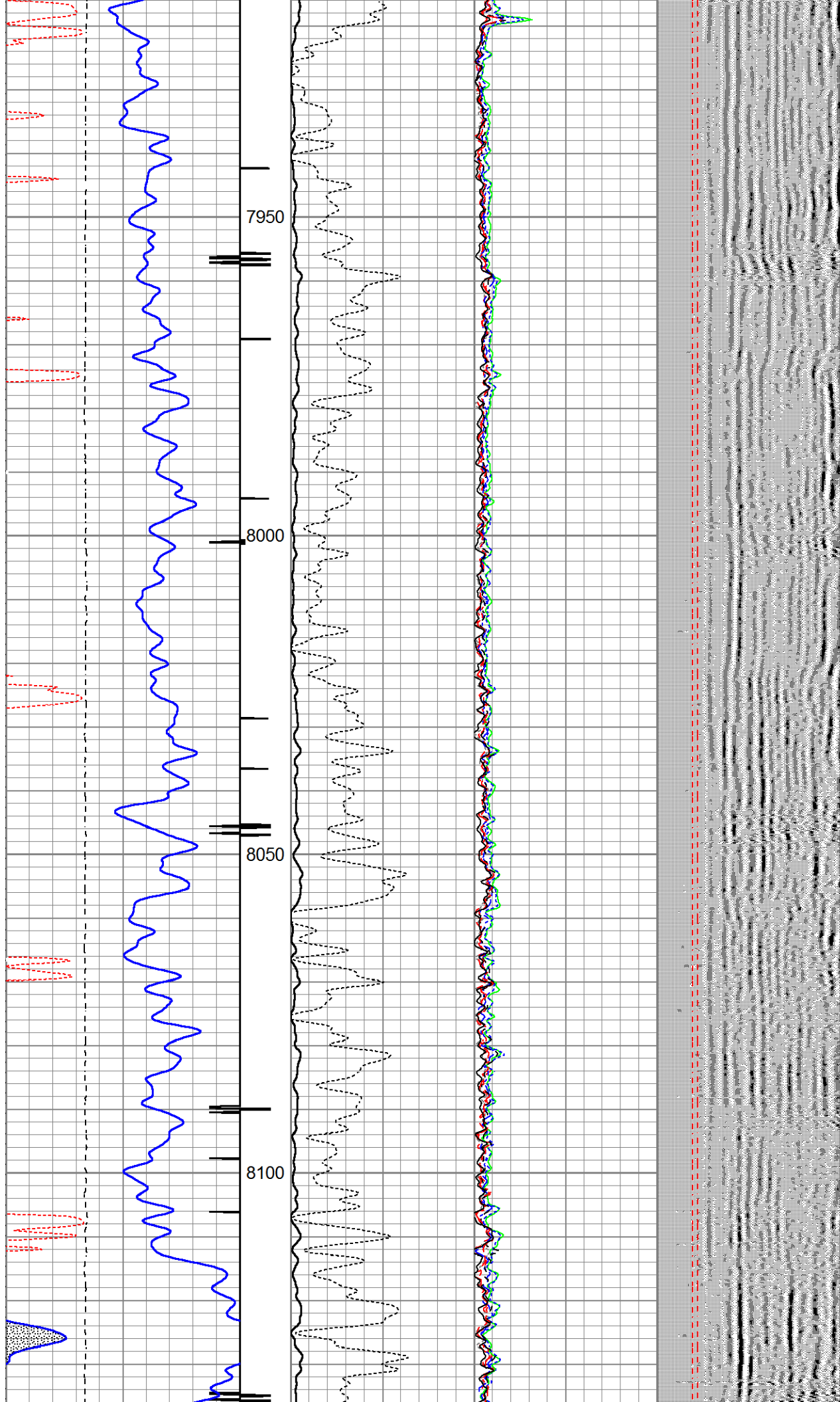


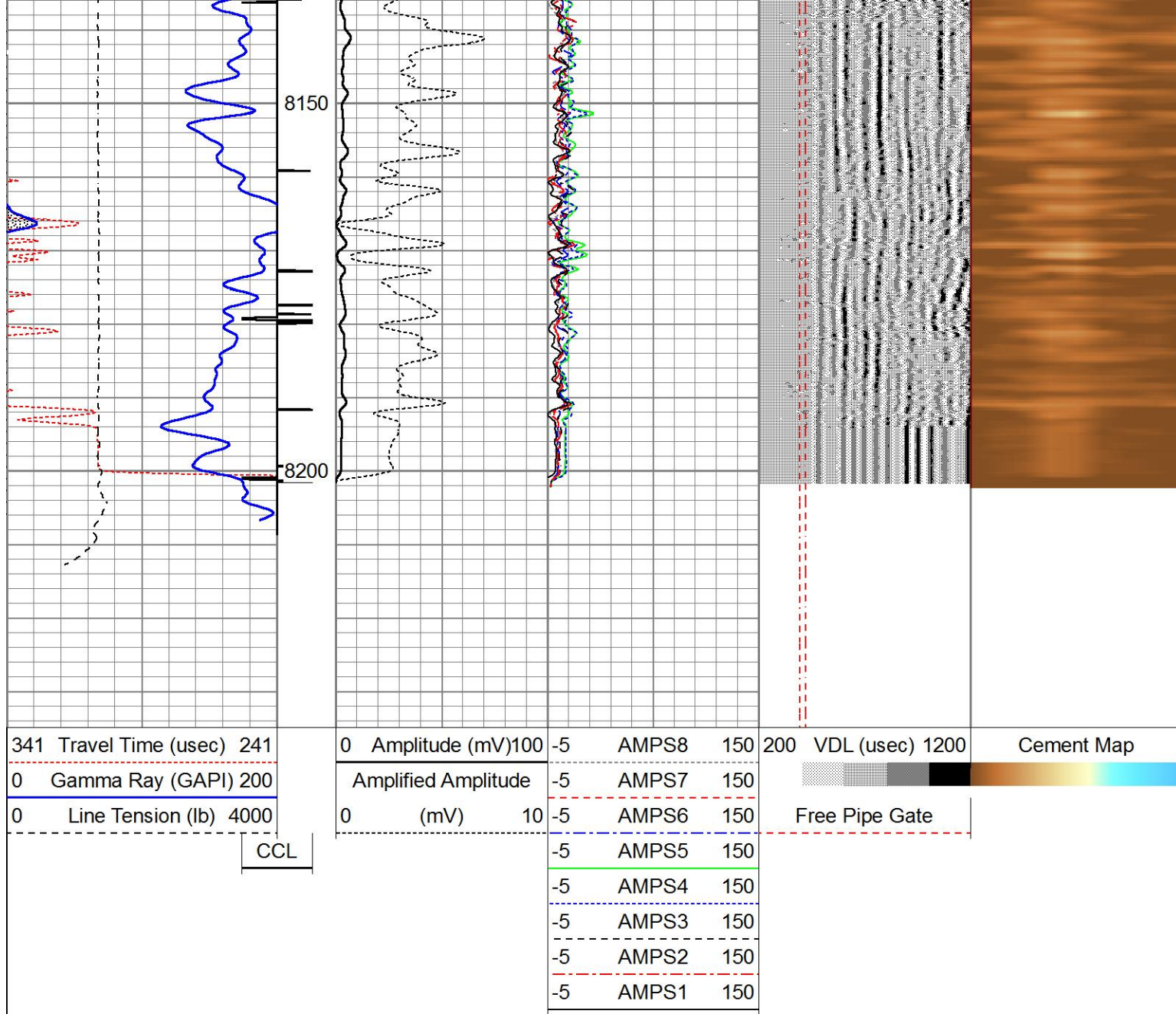










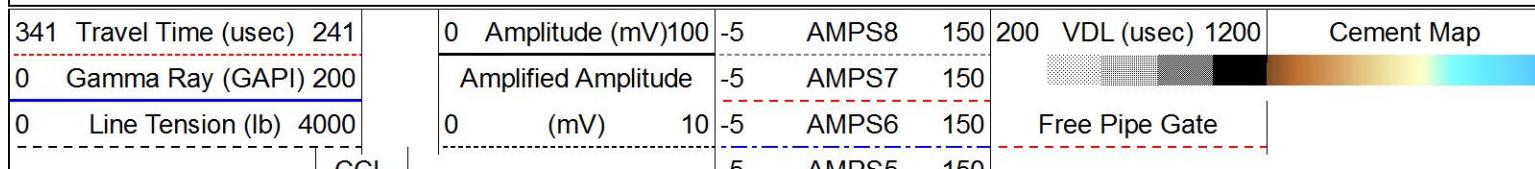


Main Pass (0) PSI

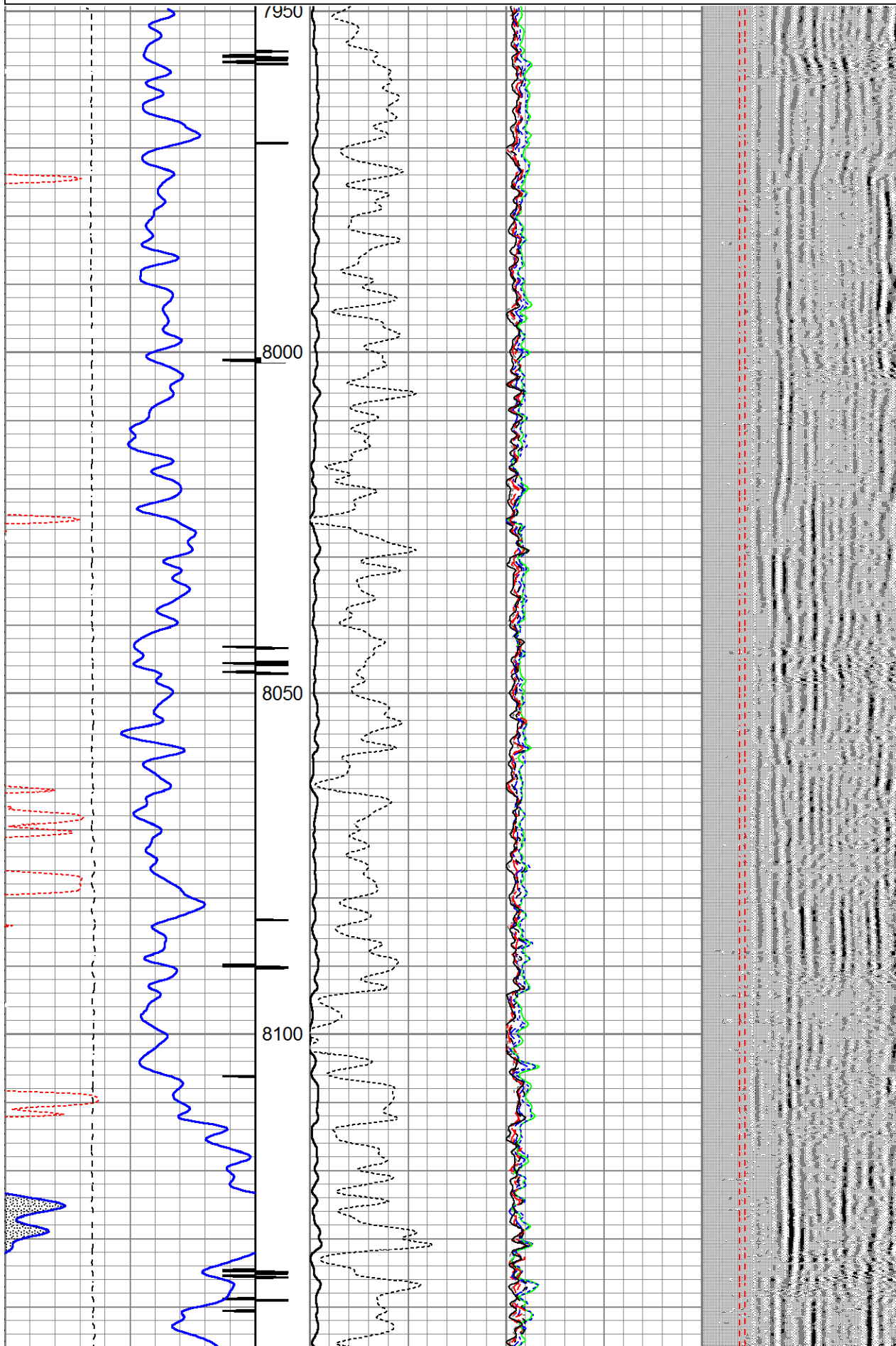


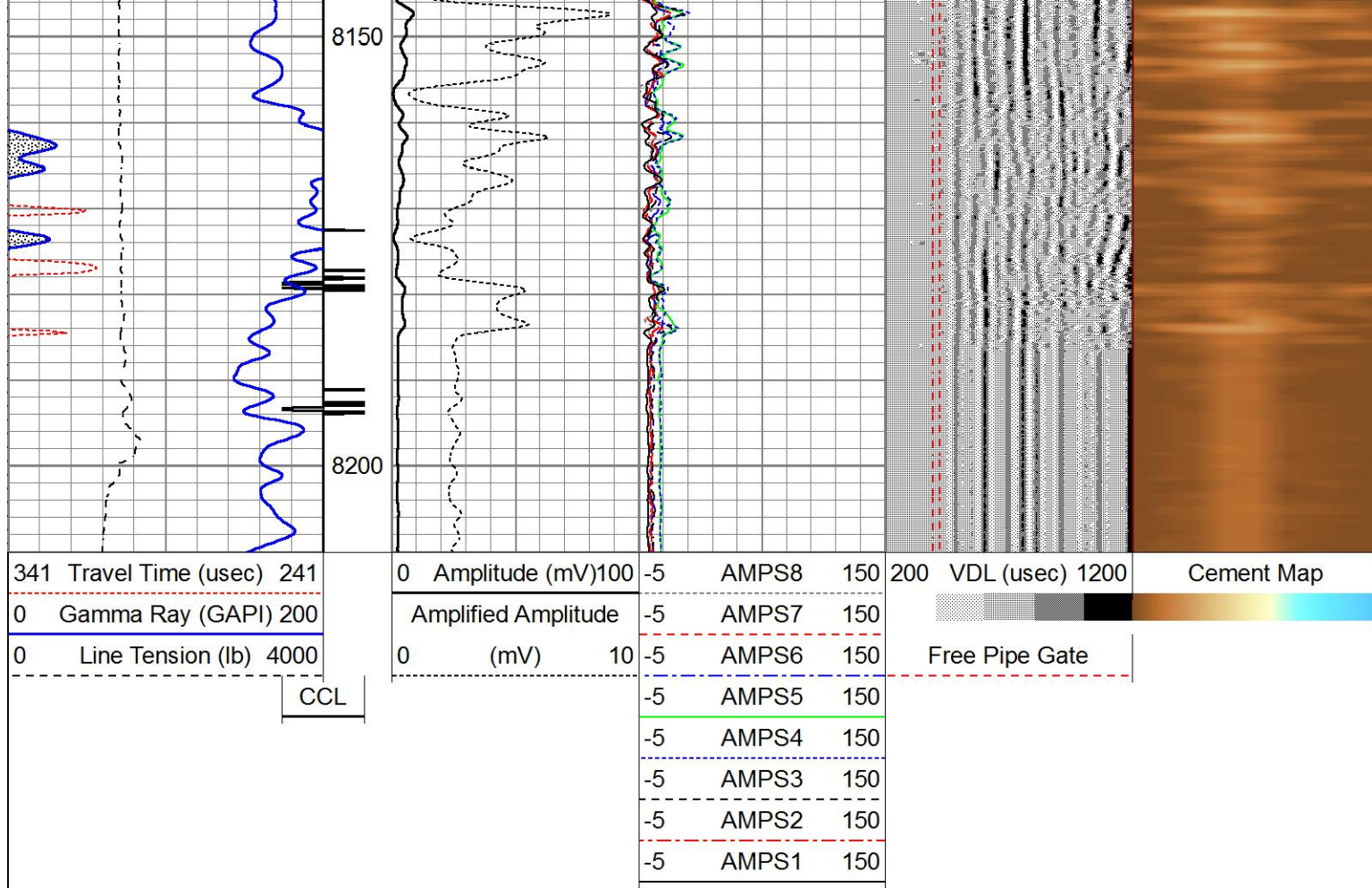
Repeat Pass (0) PSI

Database File g:\petroshare corp shook pad\db's\fs0206 ps shook 3-10-1nah cbl.db
 Dataset Pathname Shook3-10-1NAH/run1/pass8
 Presentation Format scbl5_5
 Dataset Creation Sat Mar 03 14:31:52 2018
 Charted by Depth in Feet scaled 1:240



-5	AMPS3	150
-5	AMPS4	150
-5	AMPS3	150
-5	AMPS2	150
-5	AMPS1	150





Repeat Pass (0) PSI

Log Variables

DatabaseG:\Petroshare Corp Shook Pad\DB's\fs0206 ps shook 3-10-1nah cbl.db
 Dataset field/Shook3-10-1NAH/run1/pass10/_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.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
 MAXAMPL : Maximum Amplitude
 MINAMPL : Minimum Amplitude
 MINATTN : Minimum Attenuation

PERFS : Perforation Flag
 PPT : Predicted Pipe Time
 SRFTEMP : Surface Temperature
 TDEPTH : Total Depth

Calibration Report

Database File G:\Petroshare Corp Shook Pad\DB's\fs0206 ps shook 3-10-1nah cbl.db
 Dataset Pathname Shook3-10-1NAH/run1/pass10
 Dataset Creation Sat Mar 03 14:38:34 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

Segmented Cement Bond Log Calibration Report

Serial Number:	120768C	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	268.400	ft

Master Calibration, performed Sat Mar 03 13:52:22 2018:






	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	0.551	1.000	71.921	132.174	-0.841
CAL	0.009	1.161				
5'	0.004	0.457	1.000	71.921	156.633	0.348
SUM						
S1	0.059	0.554	0.000	100.000	202.142	-11.948
S2	0.015	0.538	0.000	100.000	191.344	-2.857
S3	0.014	0.539	0.000	100.000	190.685	-2.707
S4	0.014	0.553	0.000	100.000	185.709	-2.691
S5	0.016	0.575	0.000	100.000	178.693	-2.825
S6	0.016	0.589	0.000	100.000	174.699	-2.868
S7	0.015	0.574	0.000	100.000	178.658	-2.604
S8	0.015	0.553	0.000	100.000	185.781	-2.778

Internal Reference Calibration, performed Sat Mar 03 10:15:49 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.009	1.161	1.000	0.000

Air Zero Calibration, performed Sat Mar 03 10:17:16 2018:

	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)
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
WVFS8	12.11		CLT-RBT-Probe (120768C) Probe 2.75" Radial Bond Tool w/Temperature	9.21	2.75	93.00
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					
CCL	4.14		CENT-Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
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

Total weight:	201.00 lb
O.D.:	2.75 in