



Radial Cement Bond  
Gamma Ray CCL  
Log

Company	Petroshare Corp	Country	
Well	SHOOK 3-10-4CDH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO		
Company	Petroshare Corp		
Well	SHOOK 3-10-4CDH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO	Country	
Location:	API # : 05-001-09974		Other Services
	NWSE SEC.03-T1S-R67W 2058' FSL & 2184' 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 4, 2018		
Run Number	ONE		
Depth Driller	14003'		
Depth Logger	8068'		
Bottom Logged Interval	8056'		
Top Log Interval	60'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	90'		
Time Well Ready	12:25		
Time Logger on Bottom	13:05		
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 7057' - 7079'

THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

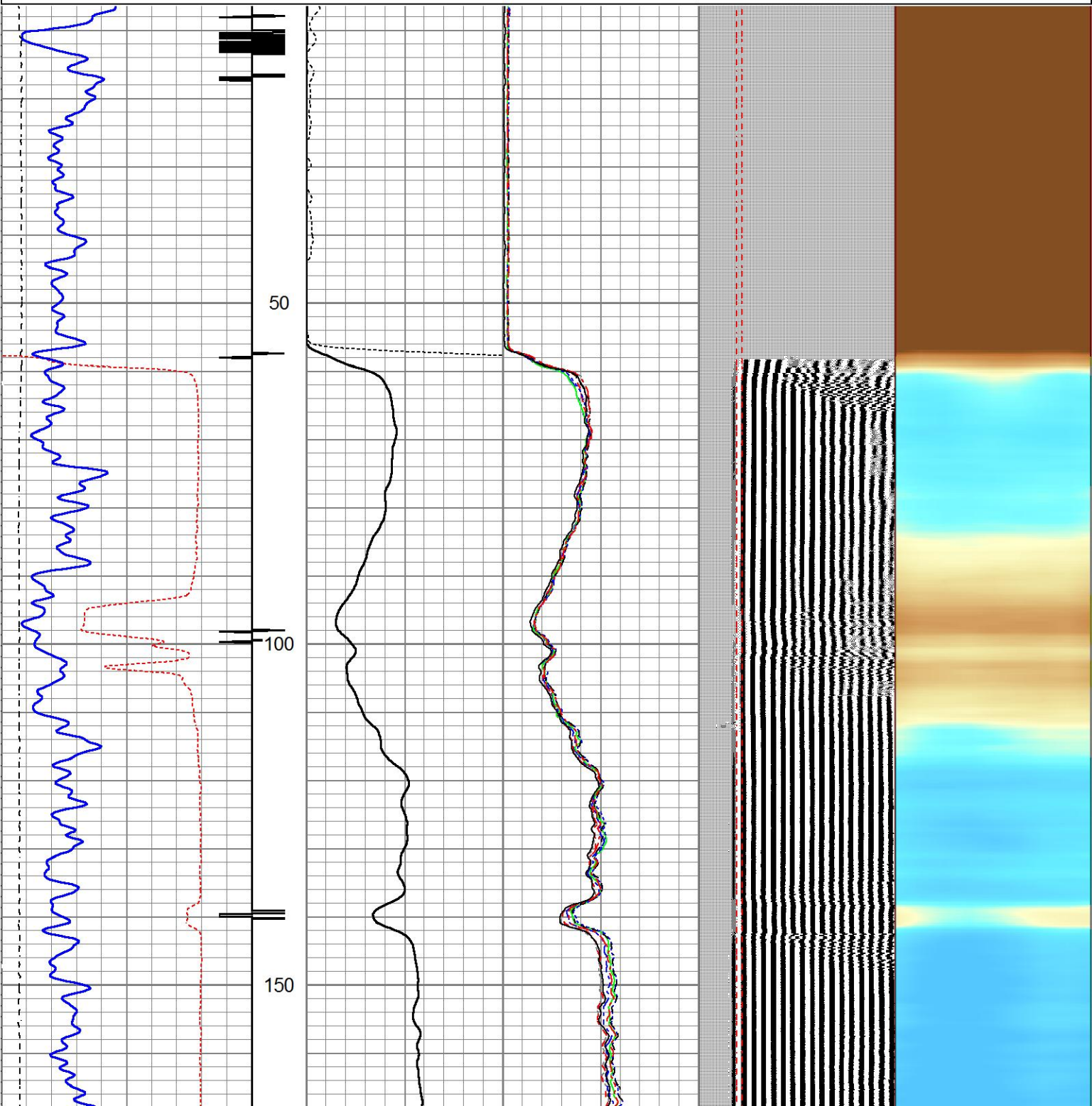
M. NOWICKI, B. SISSON, S. BARNETT



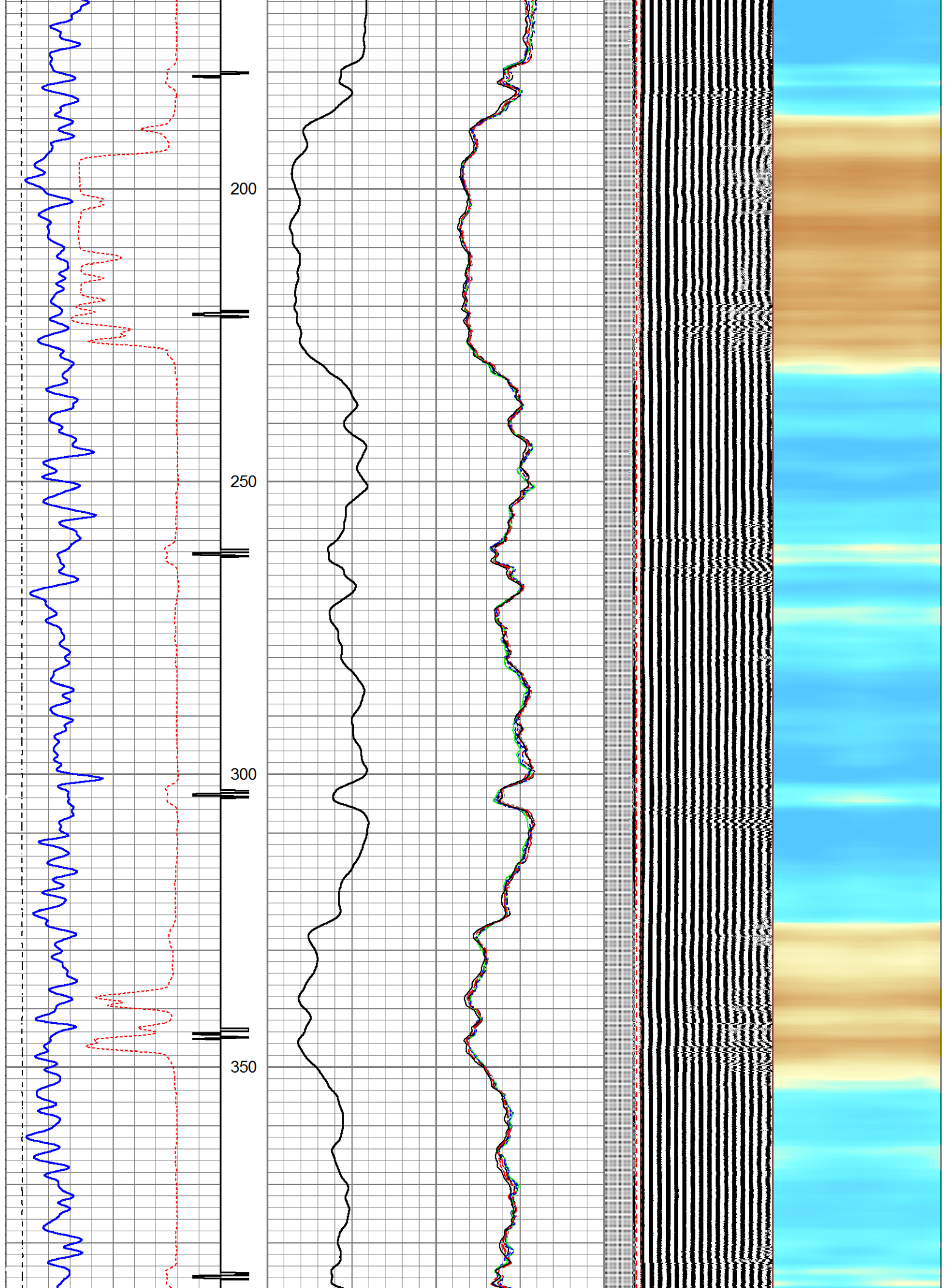
Main Pass (0) PSI

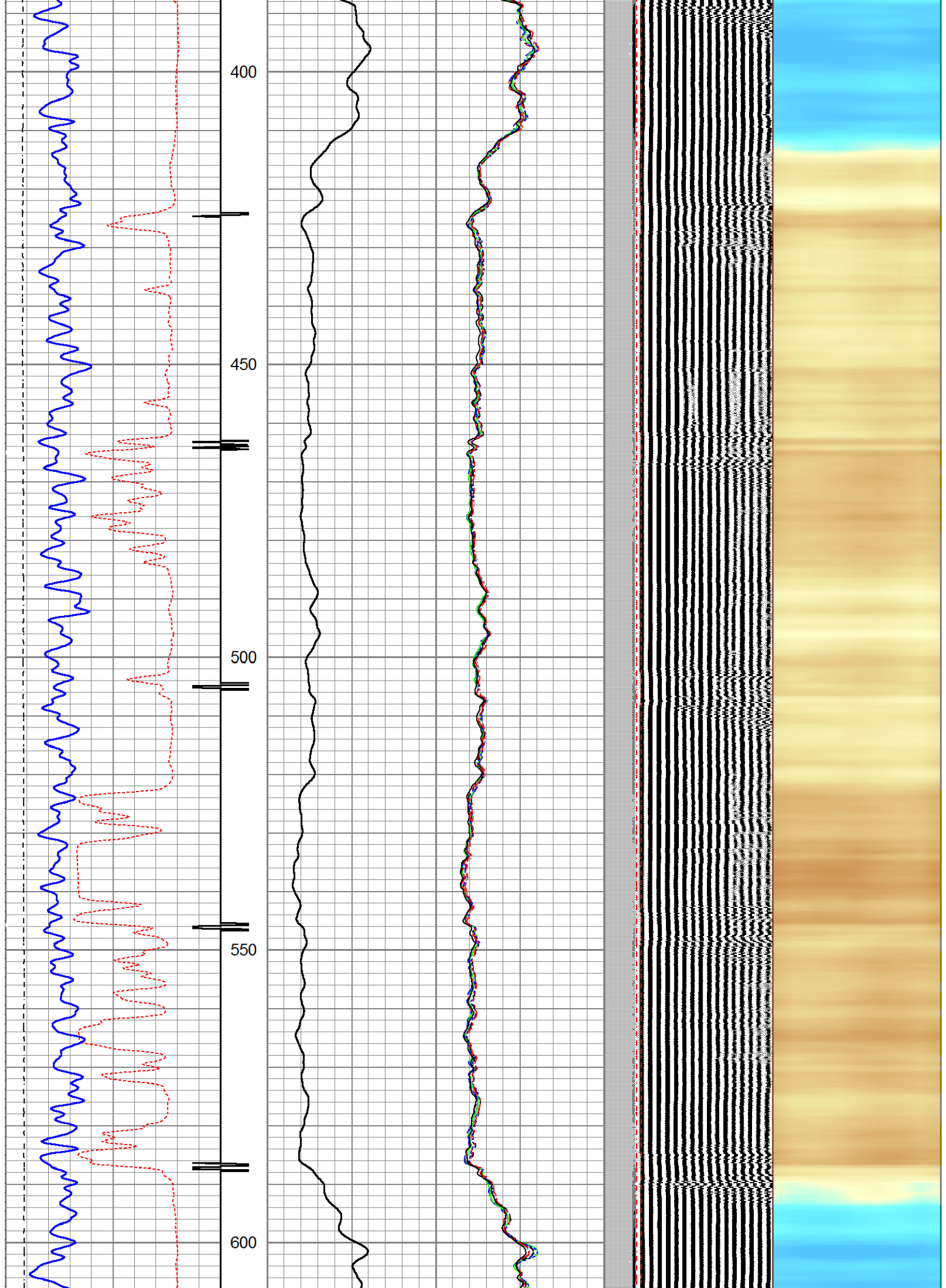
Database File	g:\petroshare corp shook pad\db\s\fs0212 ps shook 3-10-4cdh cbl.db
Dataset Pathname	Shook3-10-4CDH/run1/main1
Presentation Format	scbl5_5
Dataset Creation	Sun Mar 04 13:17:27 2018
Charted by	Depth in Feet scaled 1:240

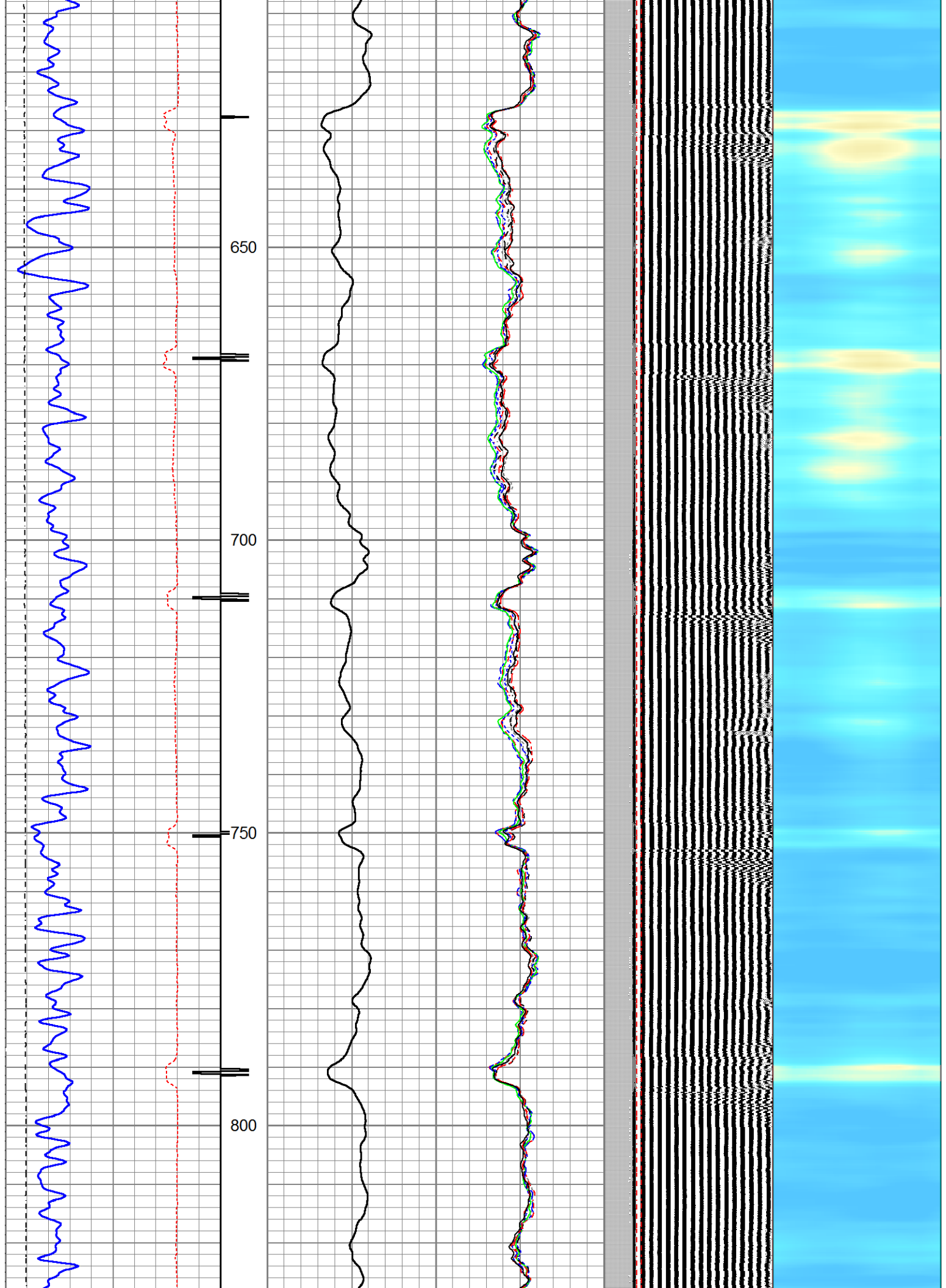
341	Travel Time (usec)	241	0	Amplitude (mV)	100	-5	AMPS8	150	200	VDL (usec)	1200	Cement Map
0	Gamma Ray (GAPI)	200		Amplified Amplitude		-5	AMPS7	150				
0	Line Tension (lb)	4000	0	(mV)	10	-5	AMPS6	150		Free Pipe Gate		
		CCL				-5	AMPS5	150				
						-5	AMPS4	150				
						-5	AMPS3	150				
						-5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



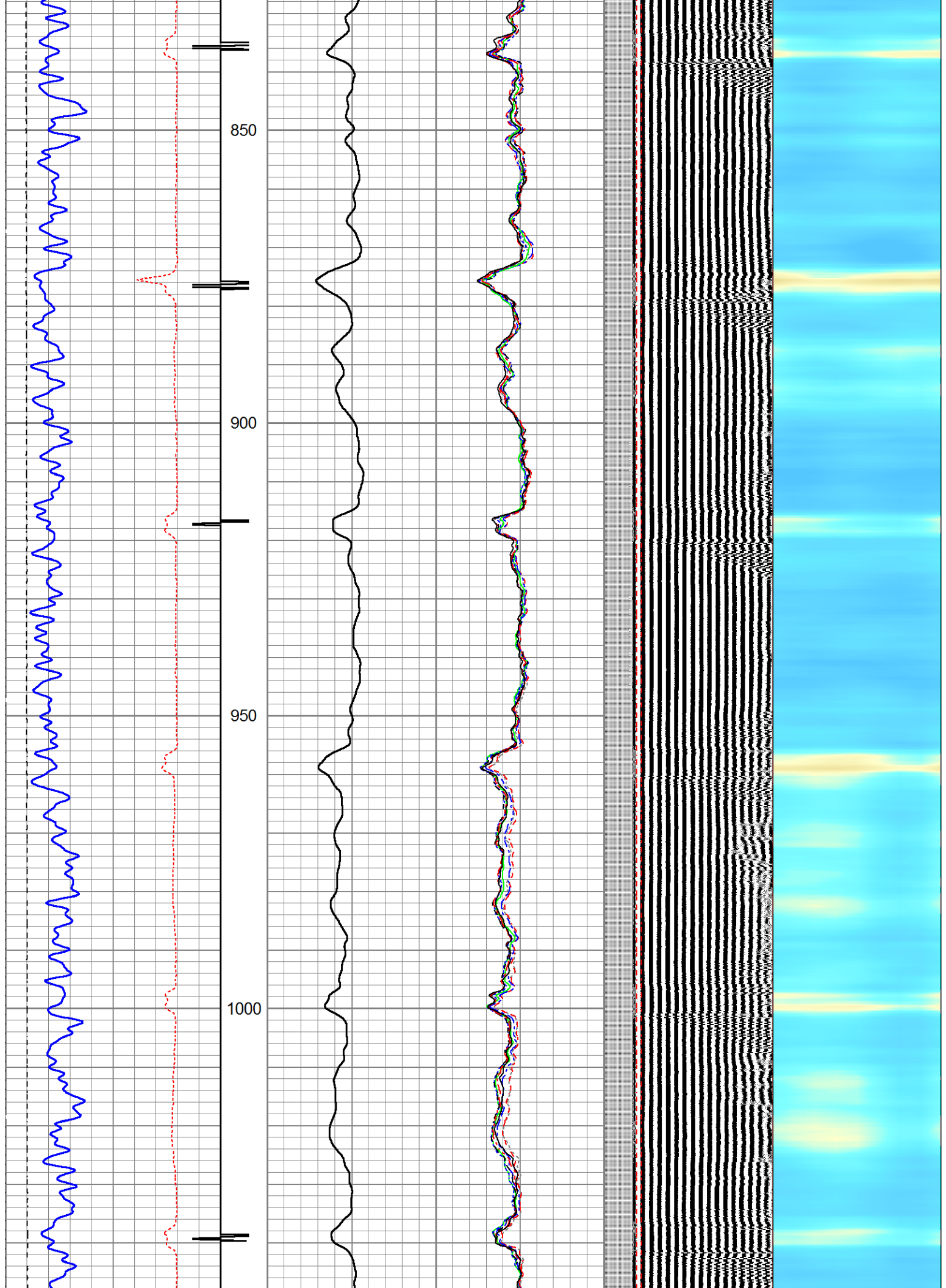


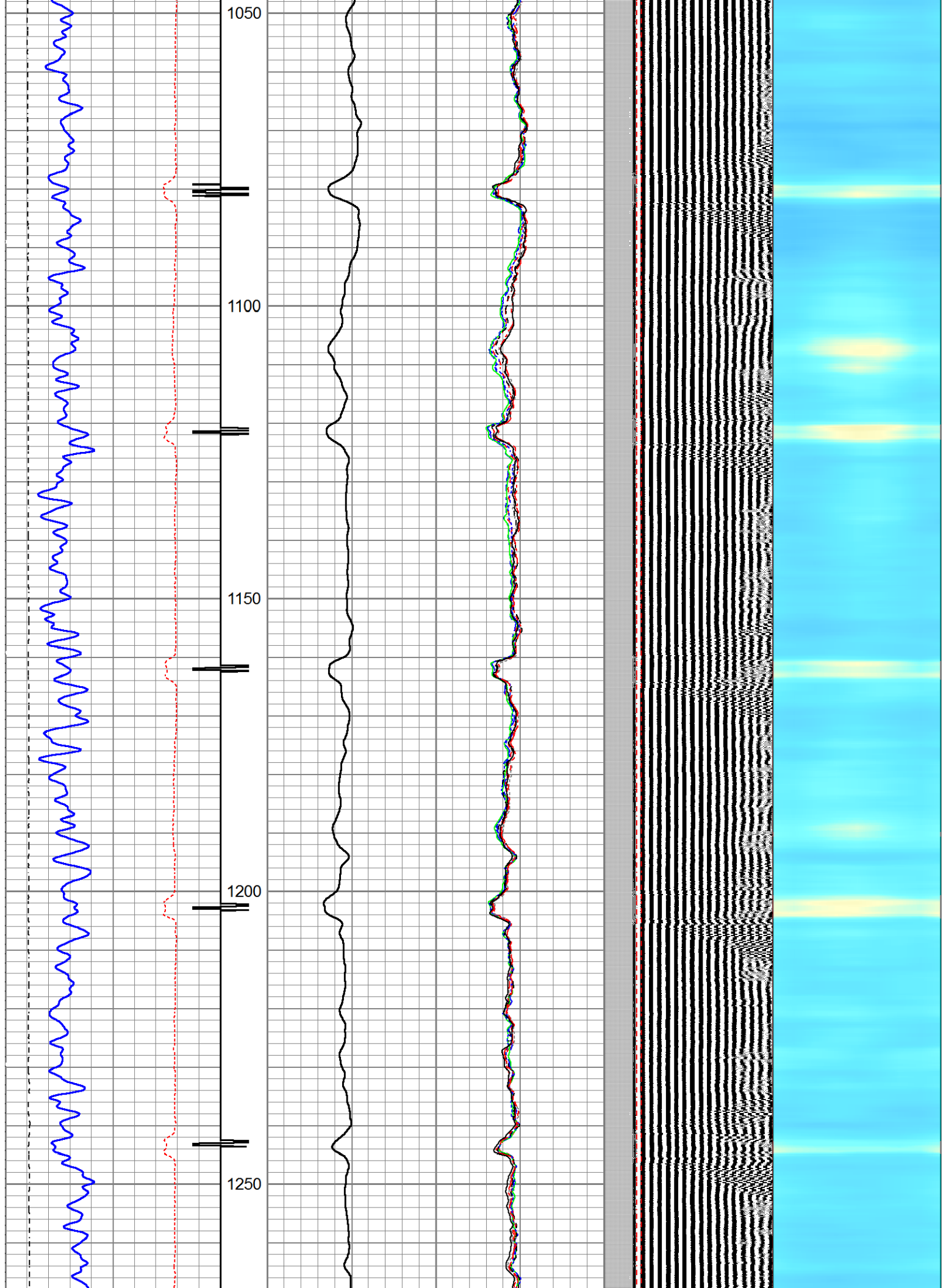


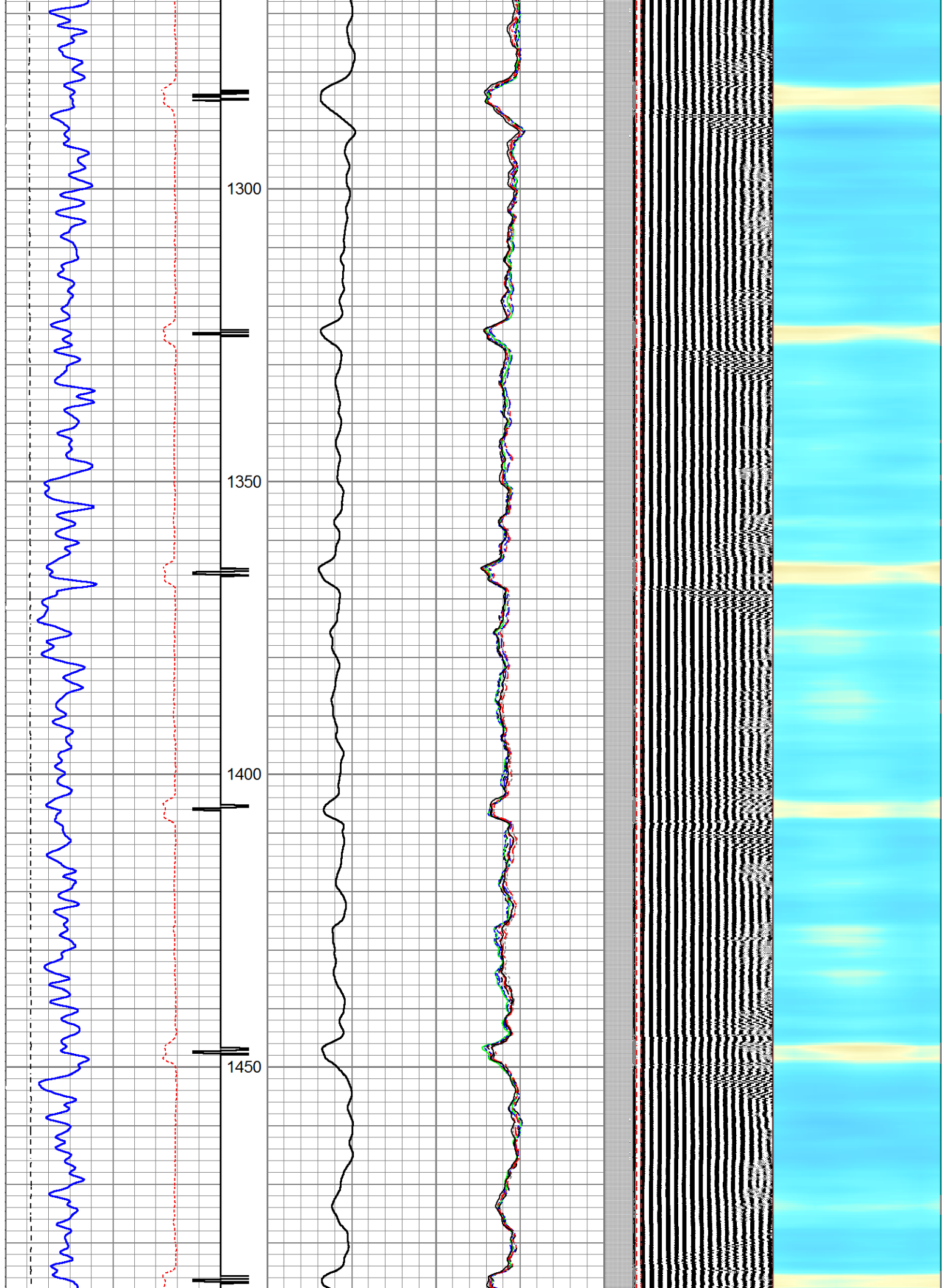




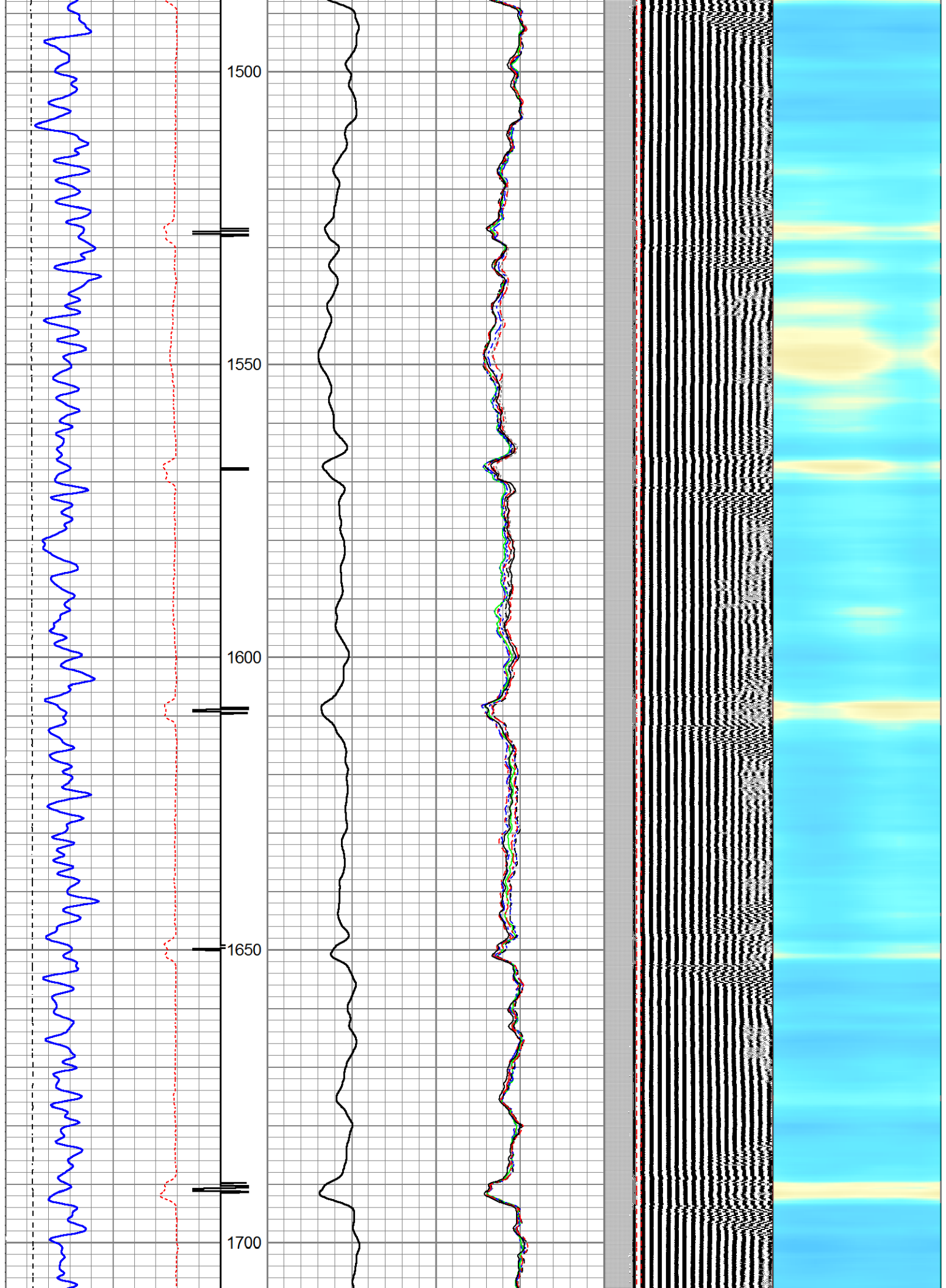


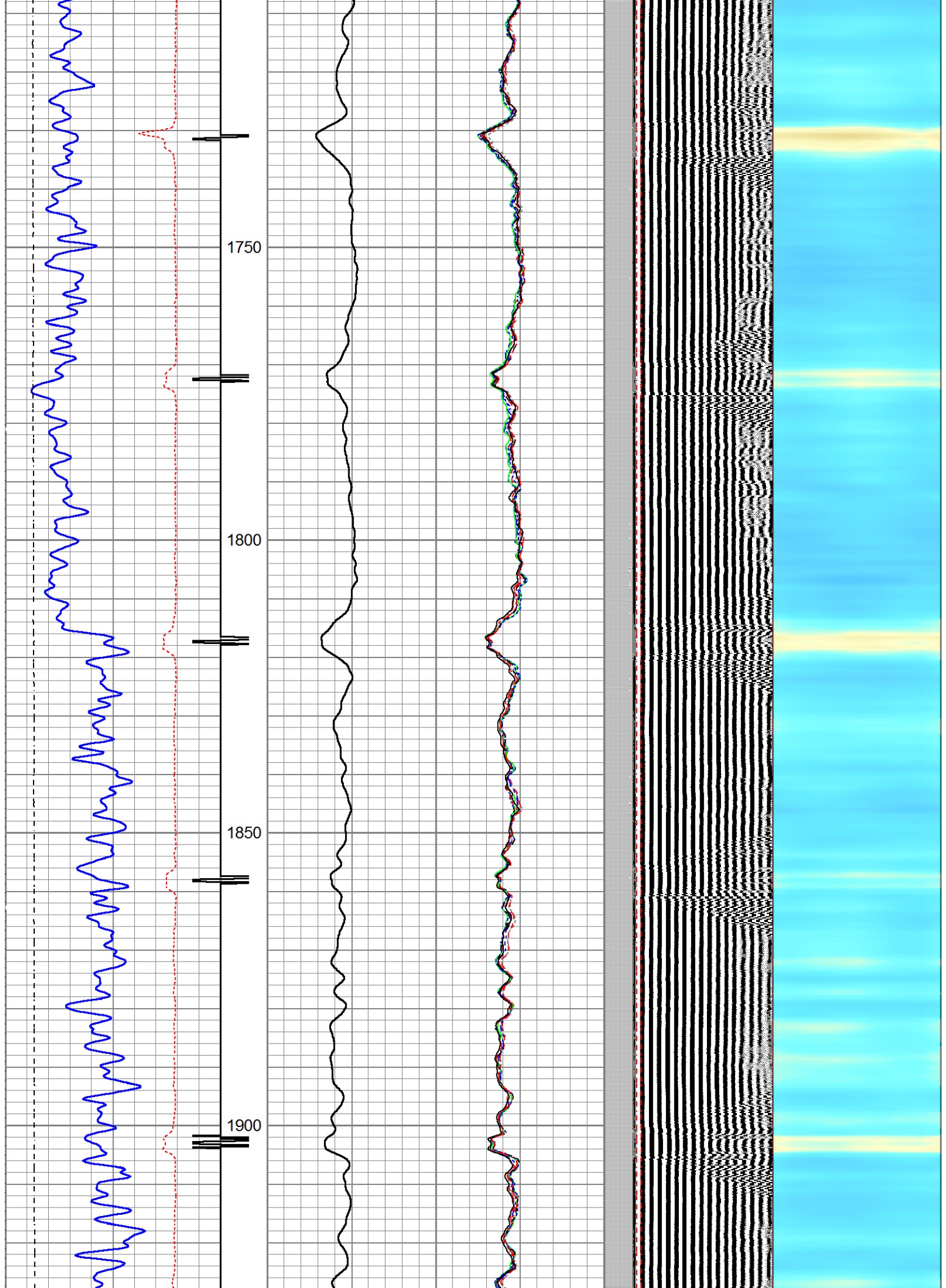


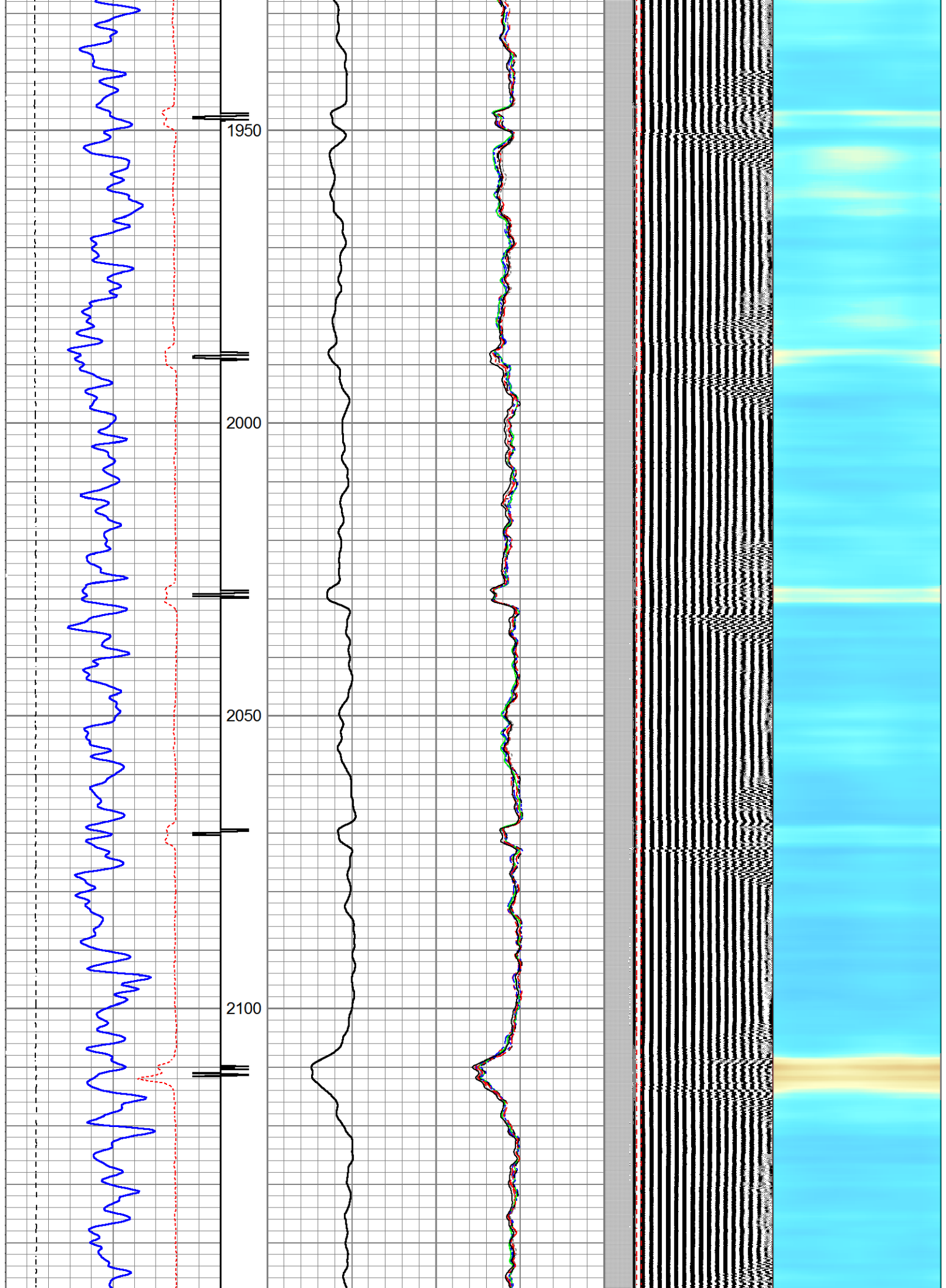




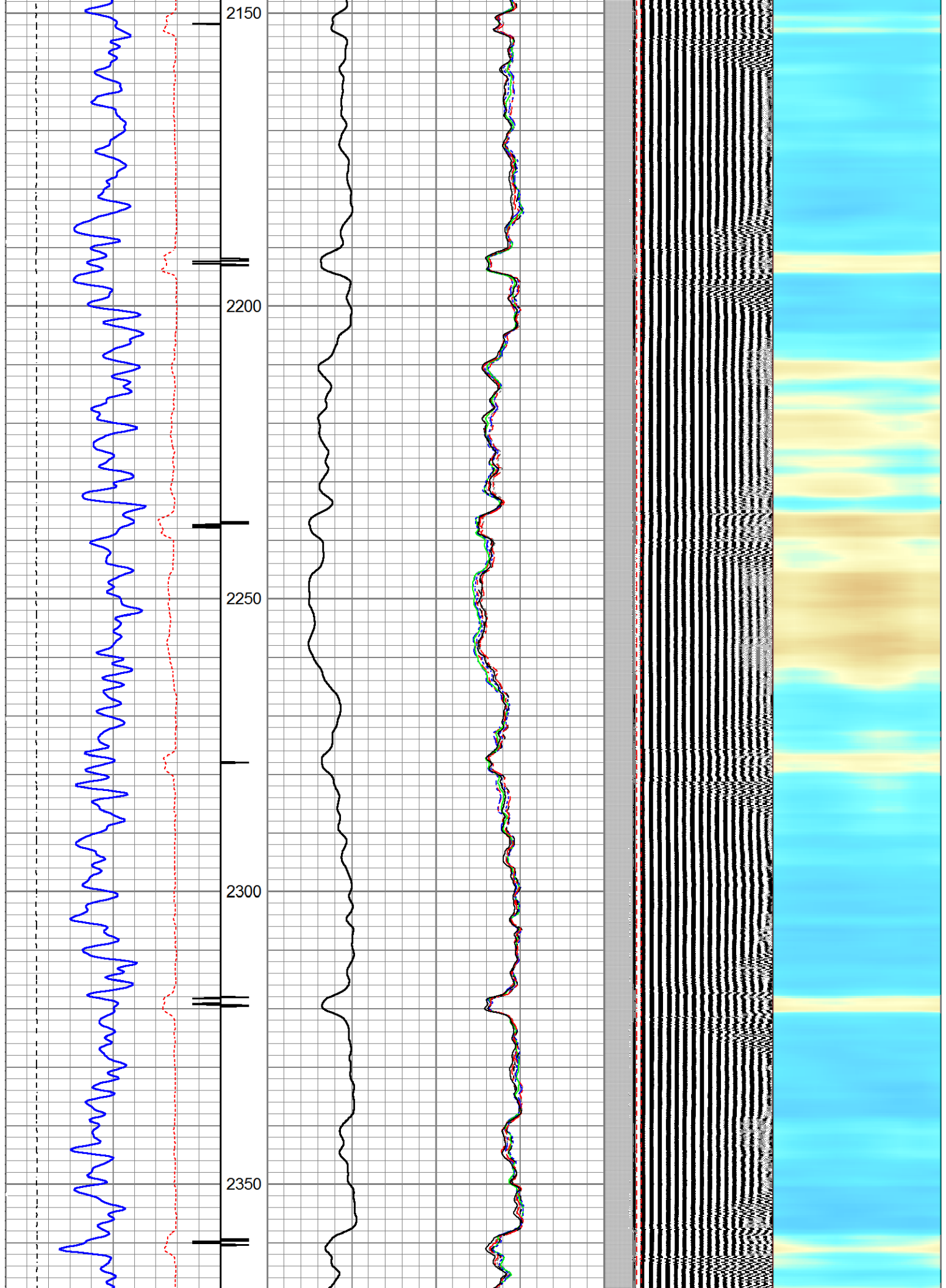


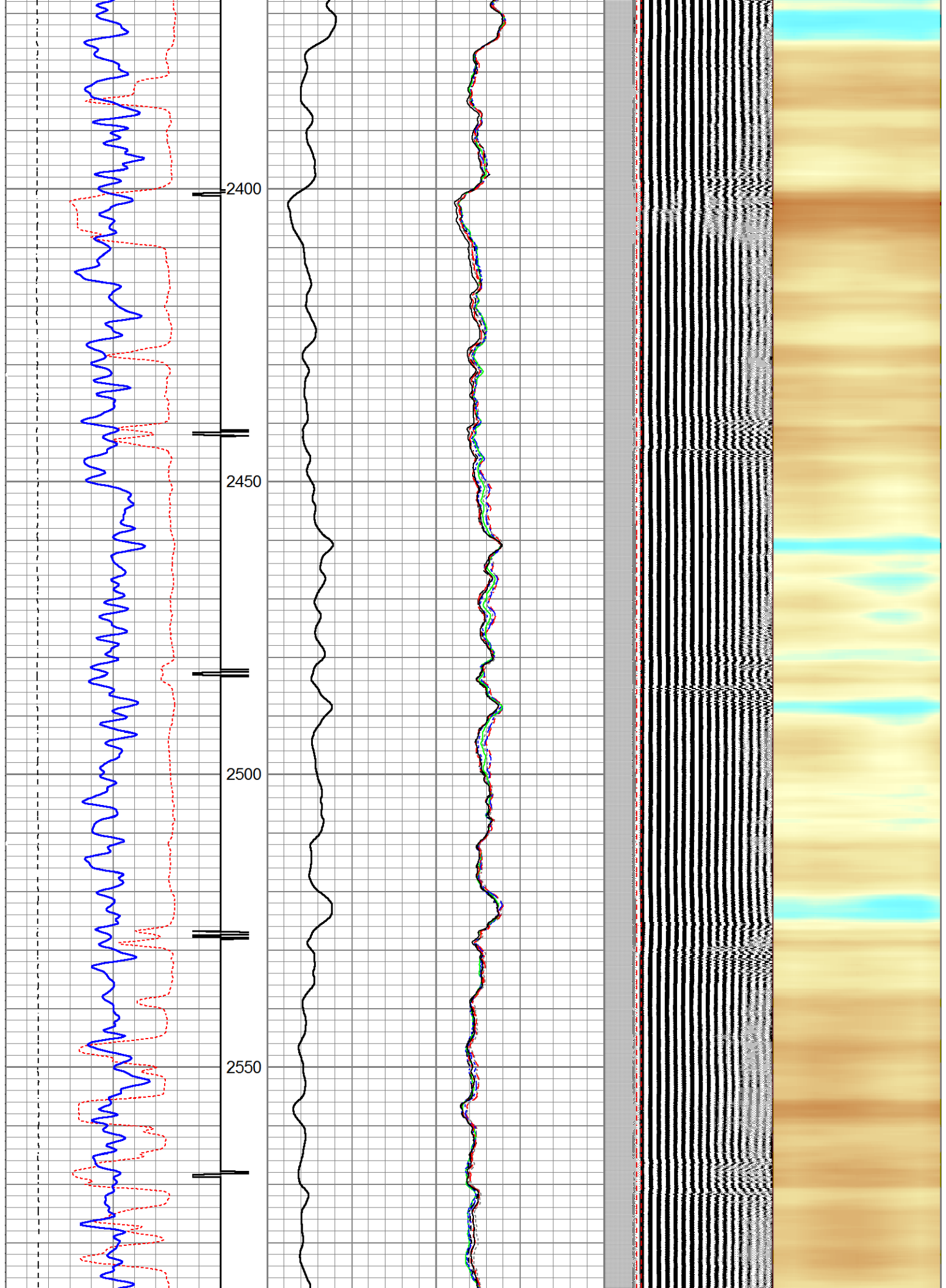


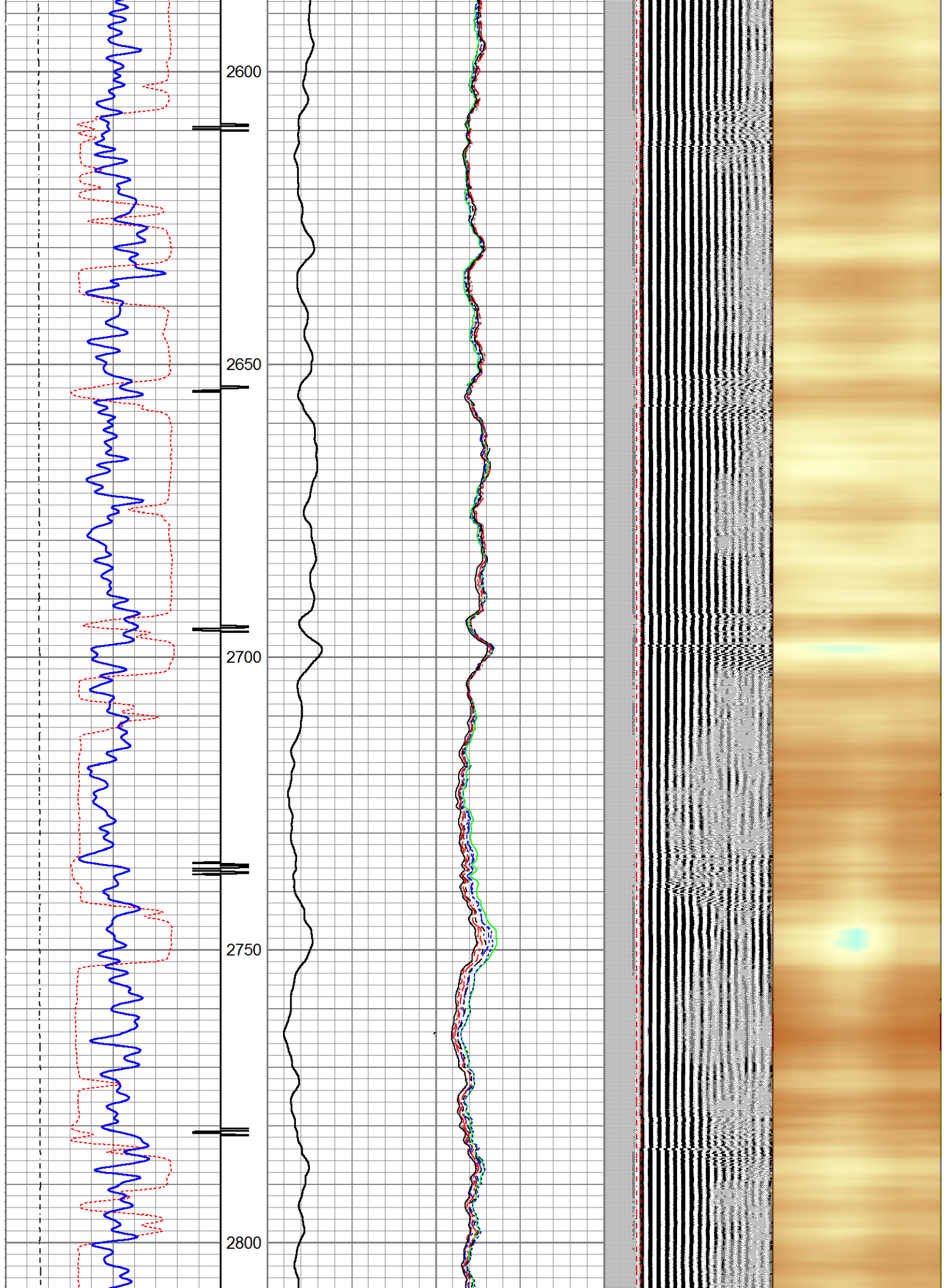




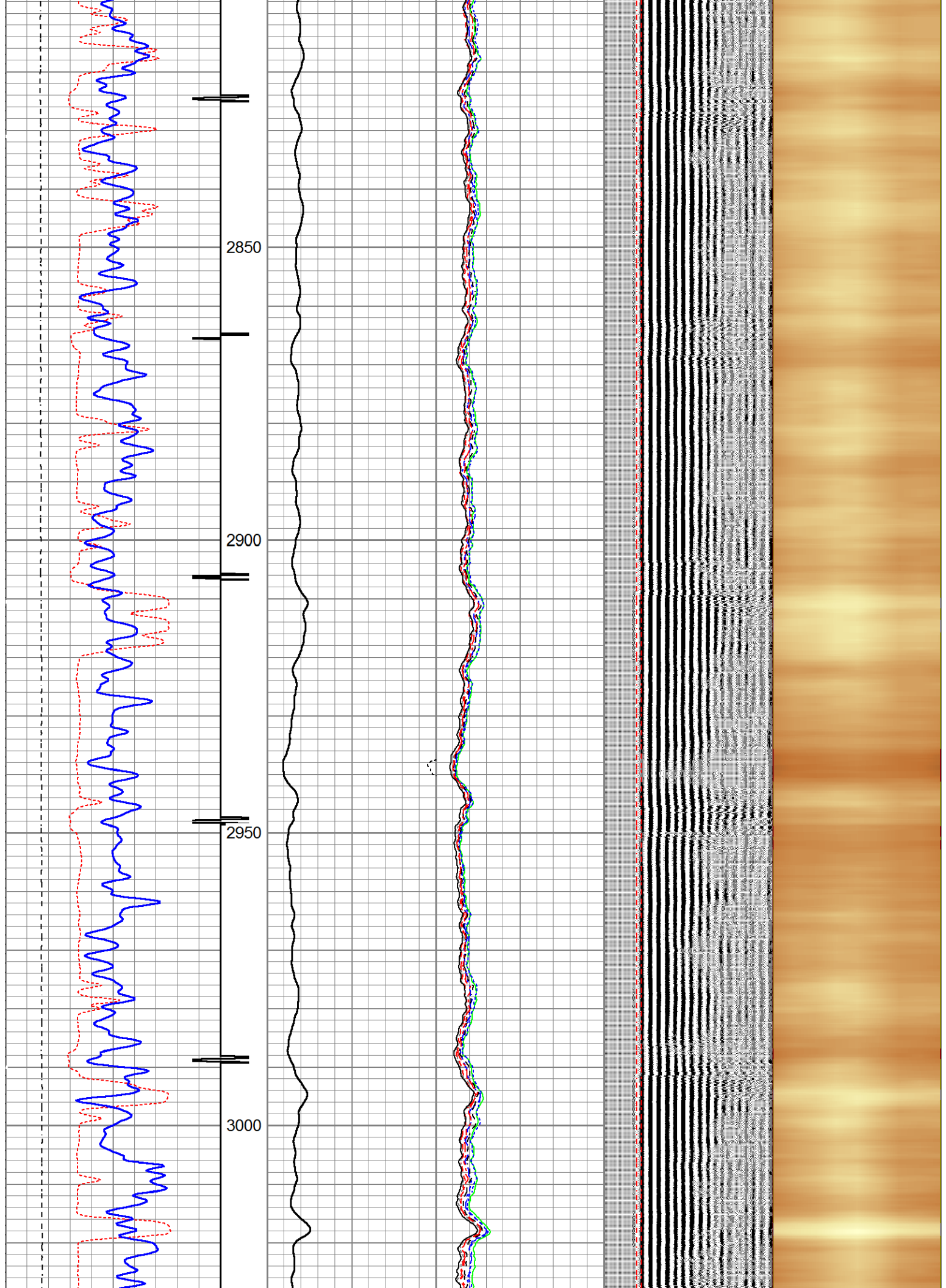


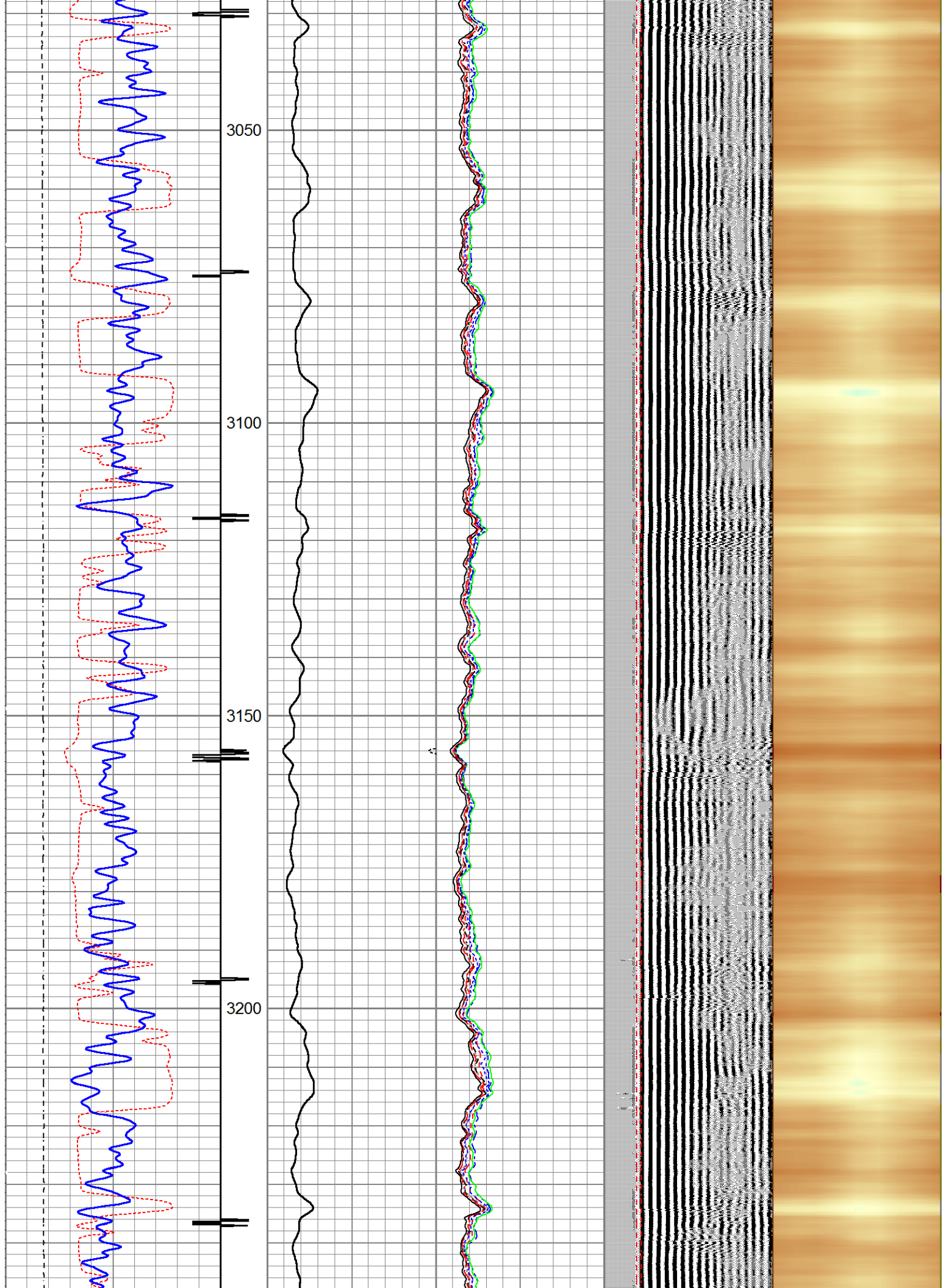




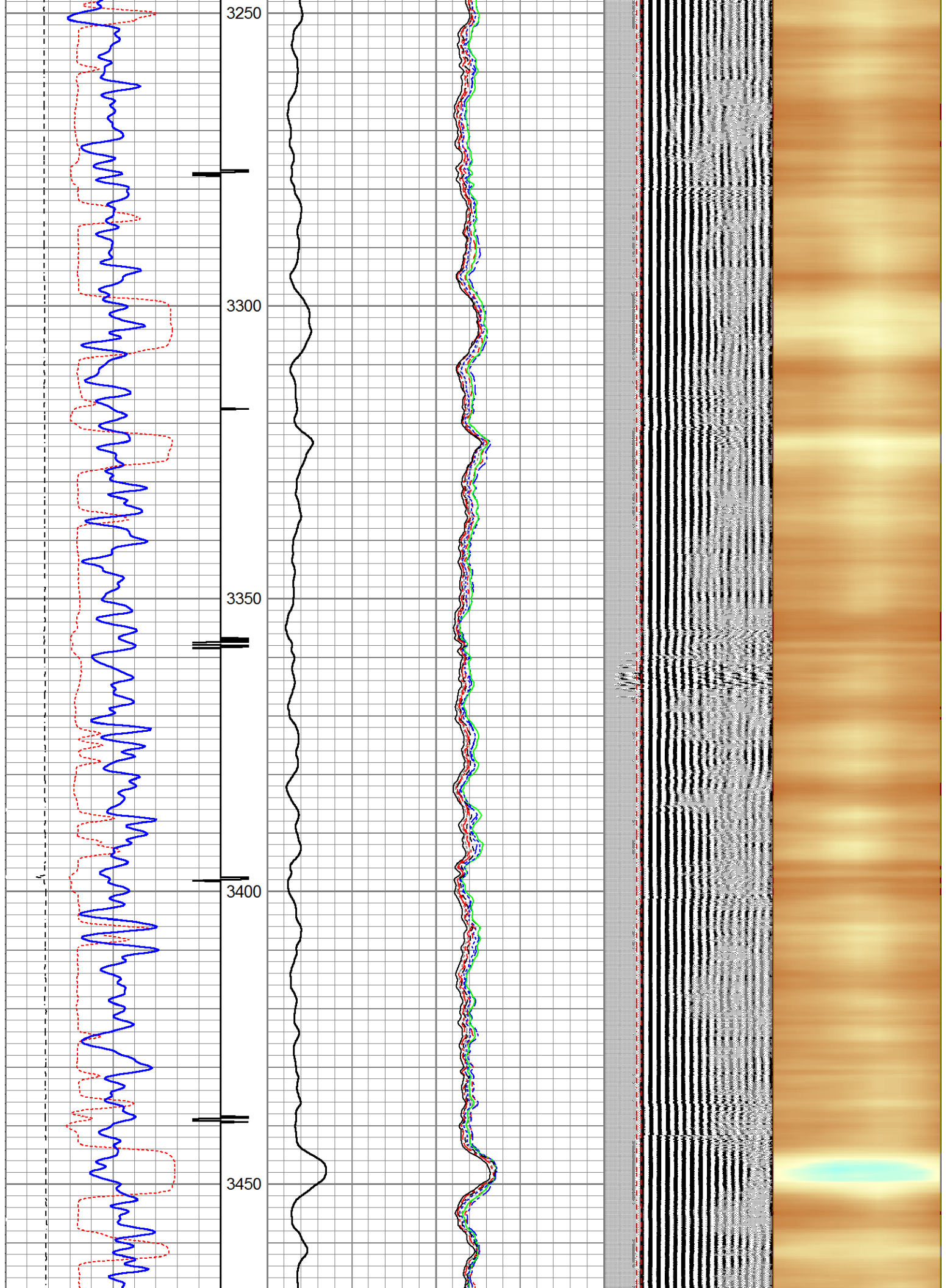




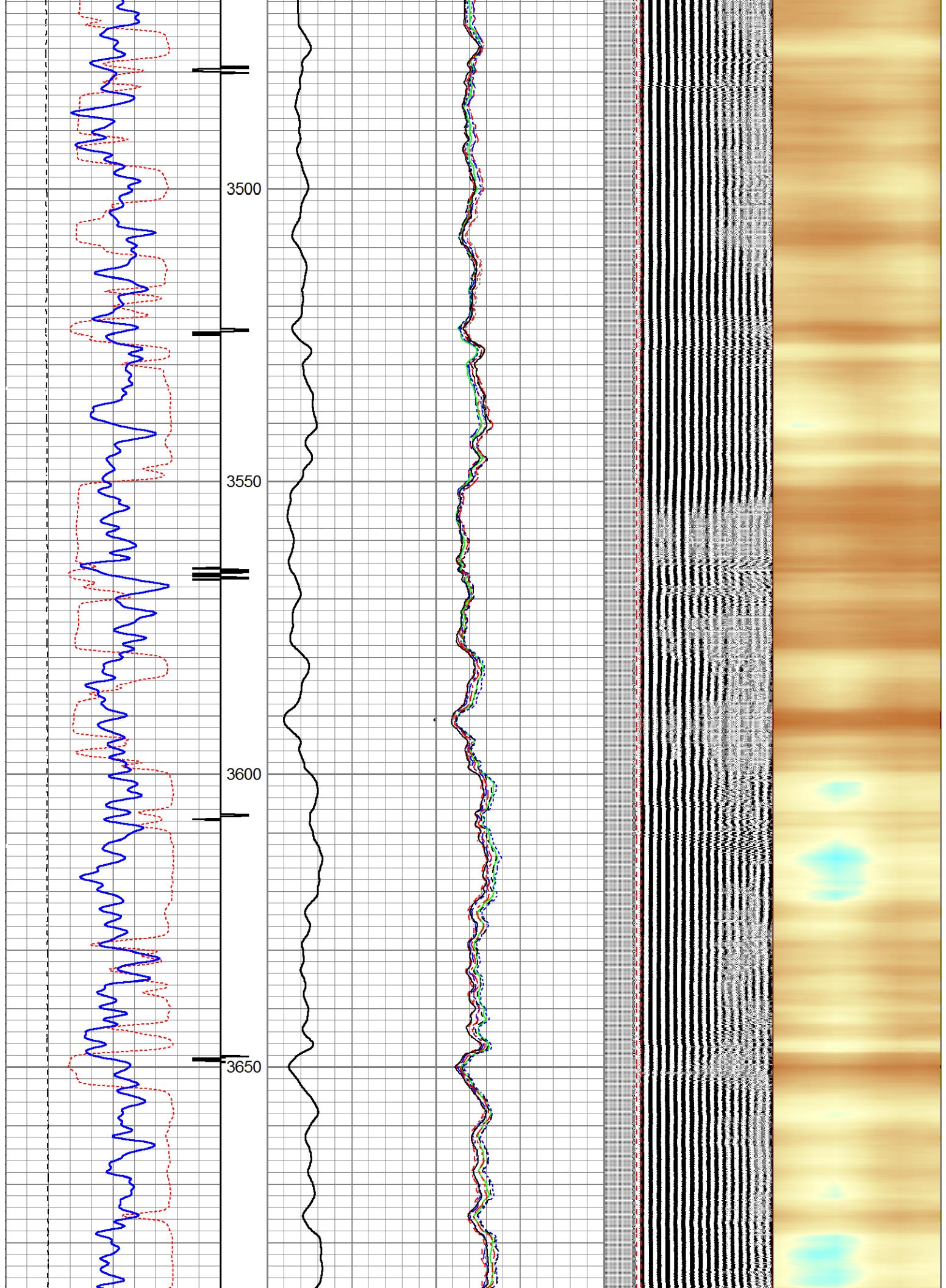


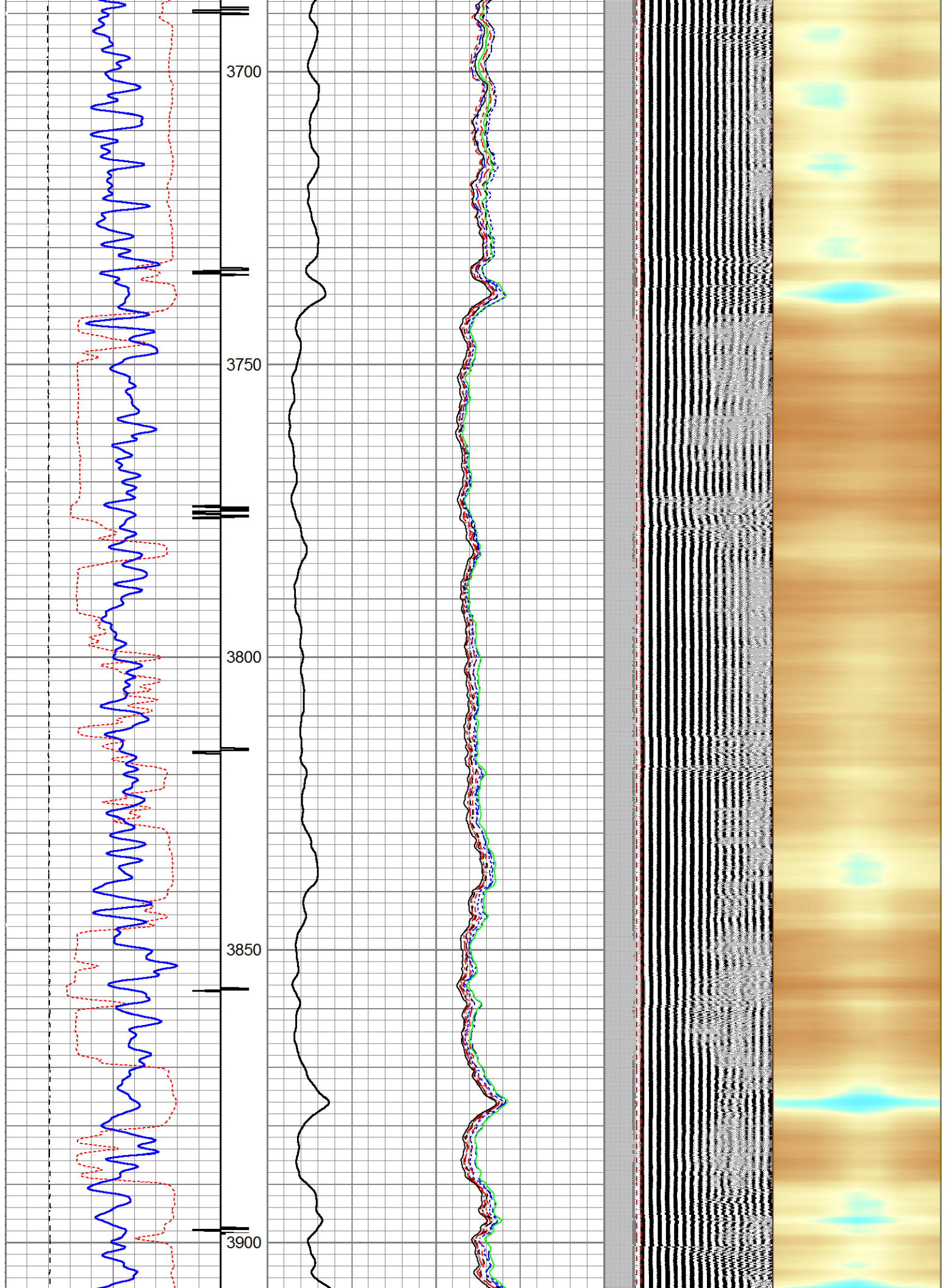




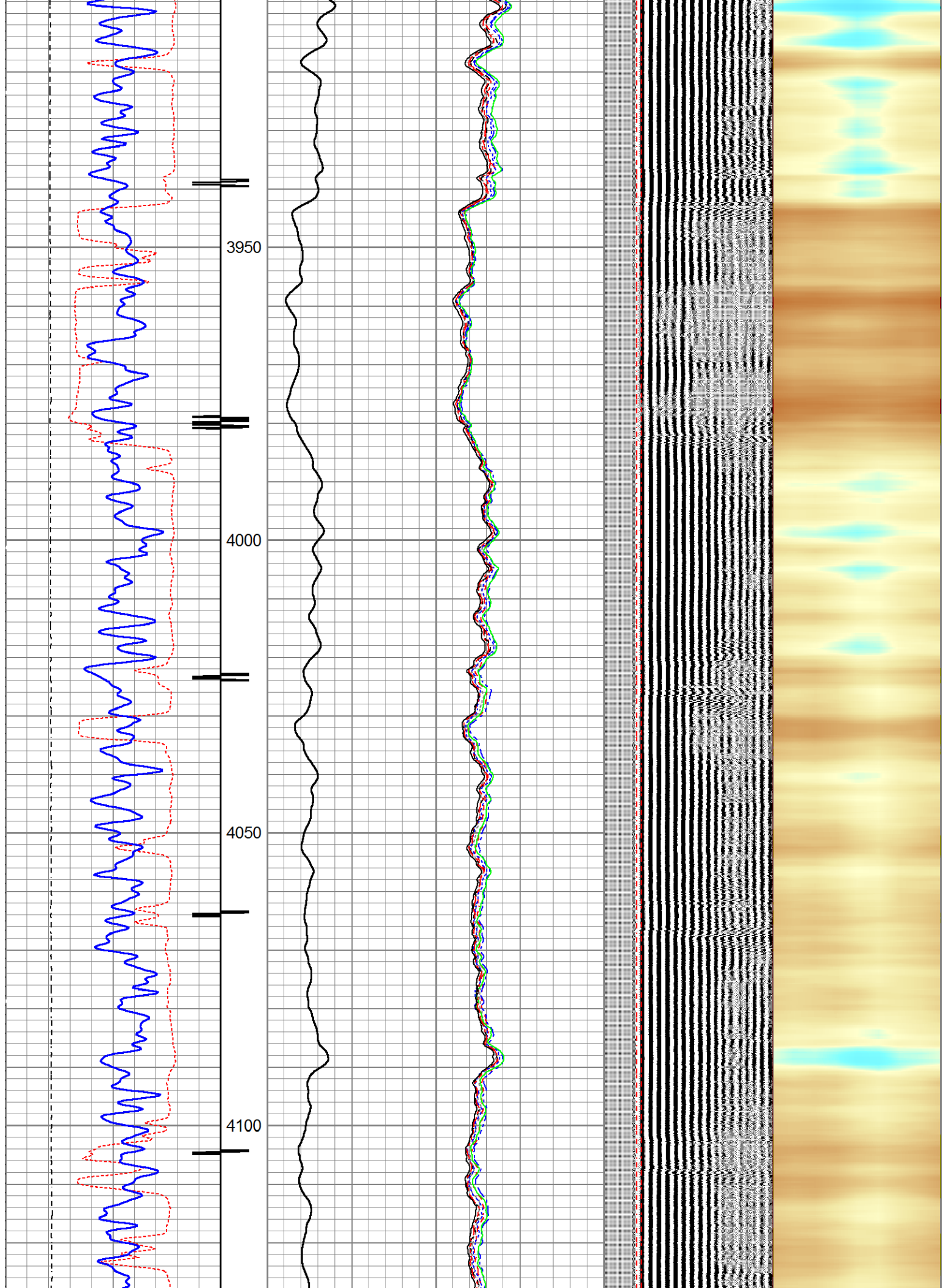




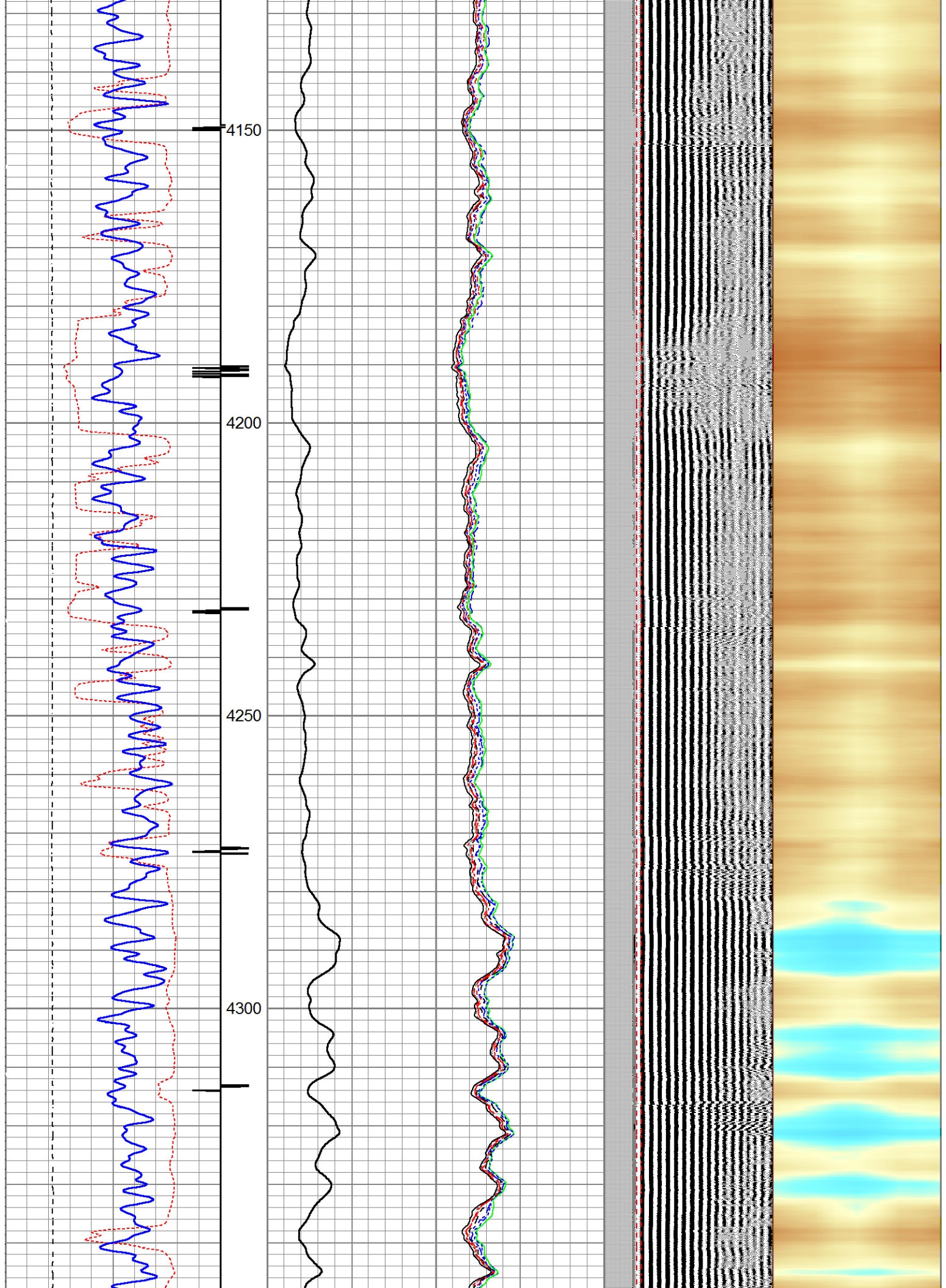


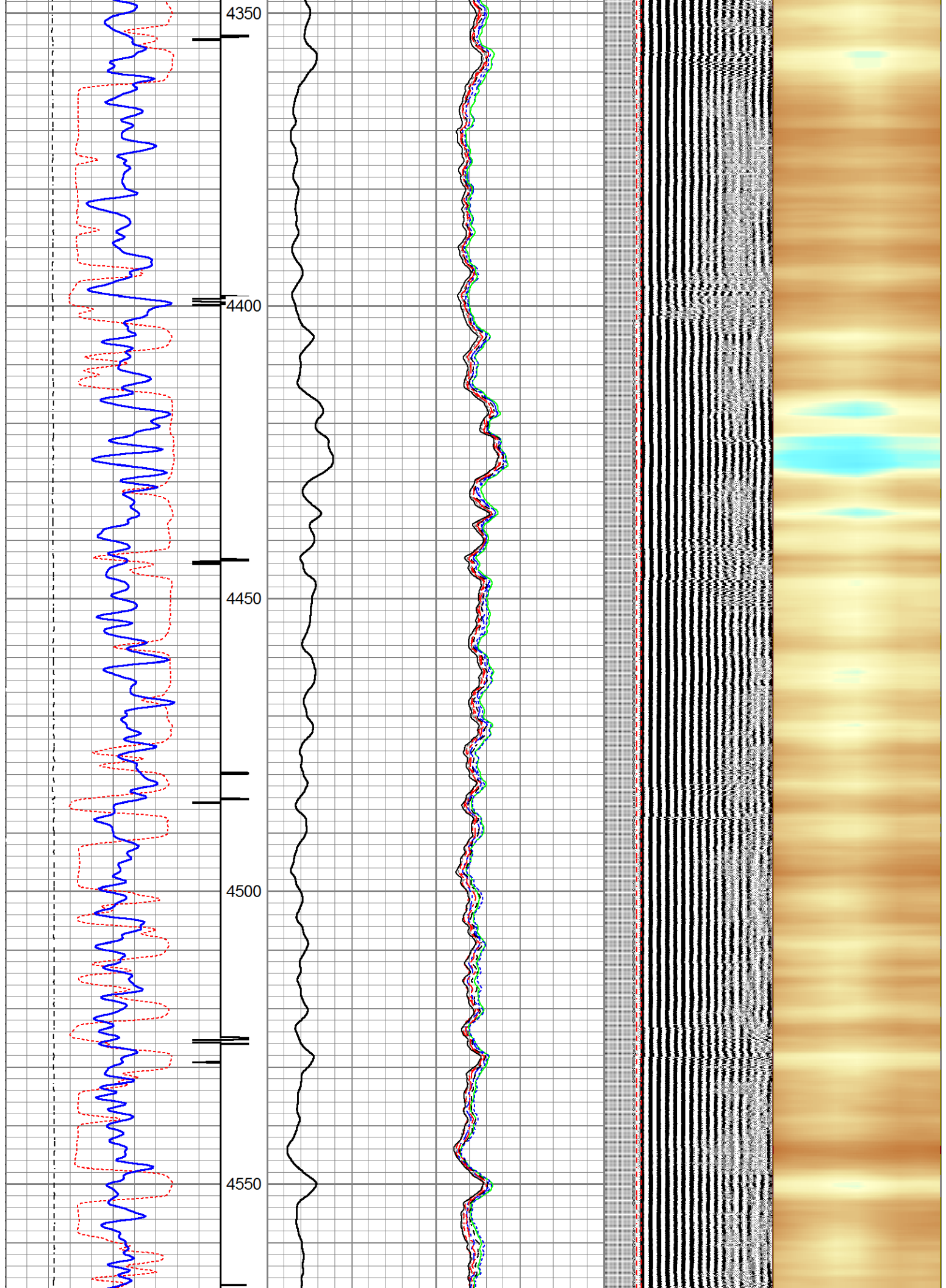




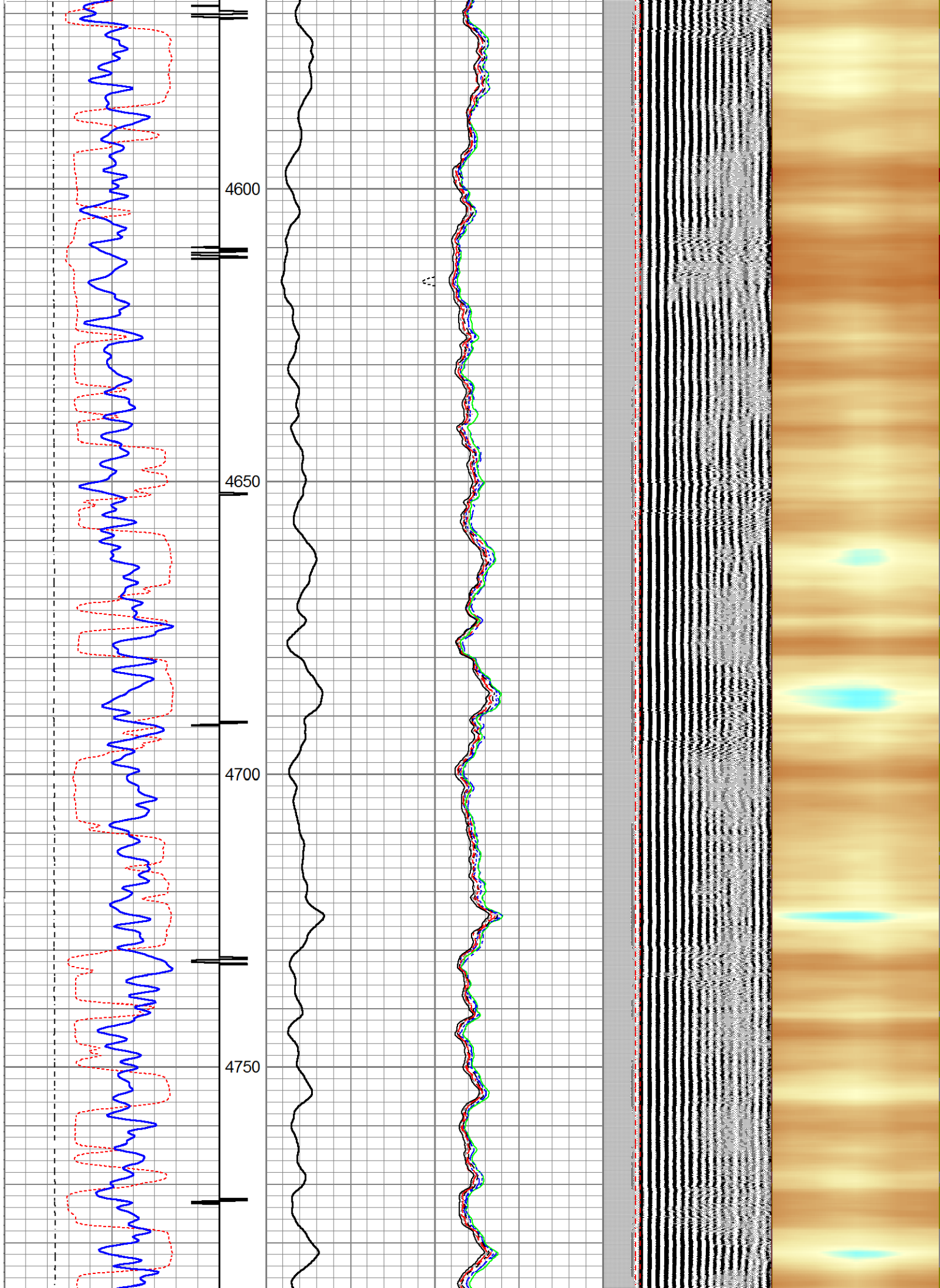




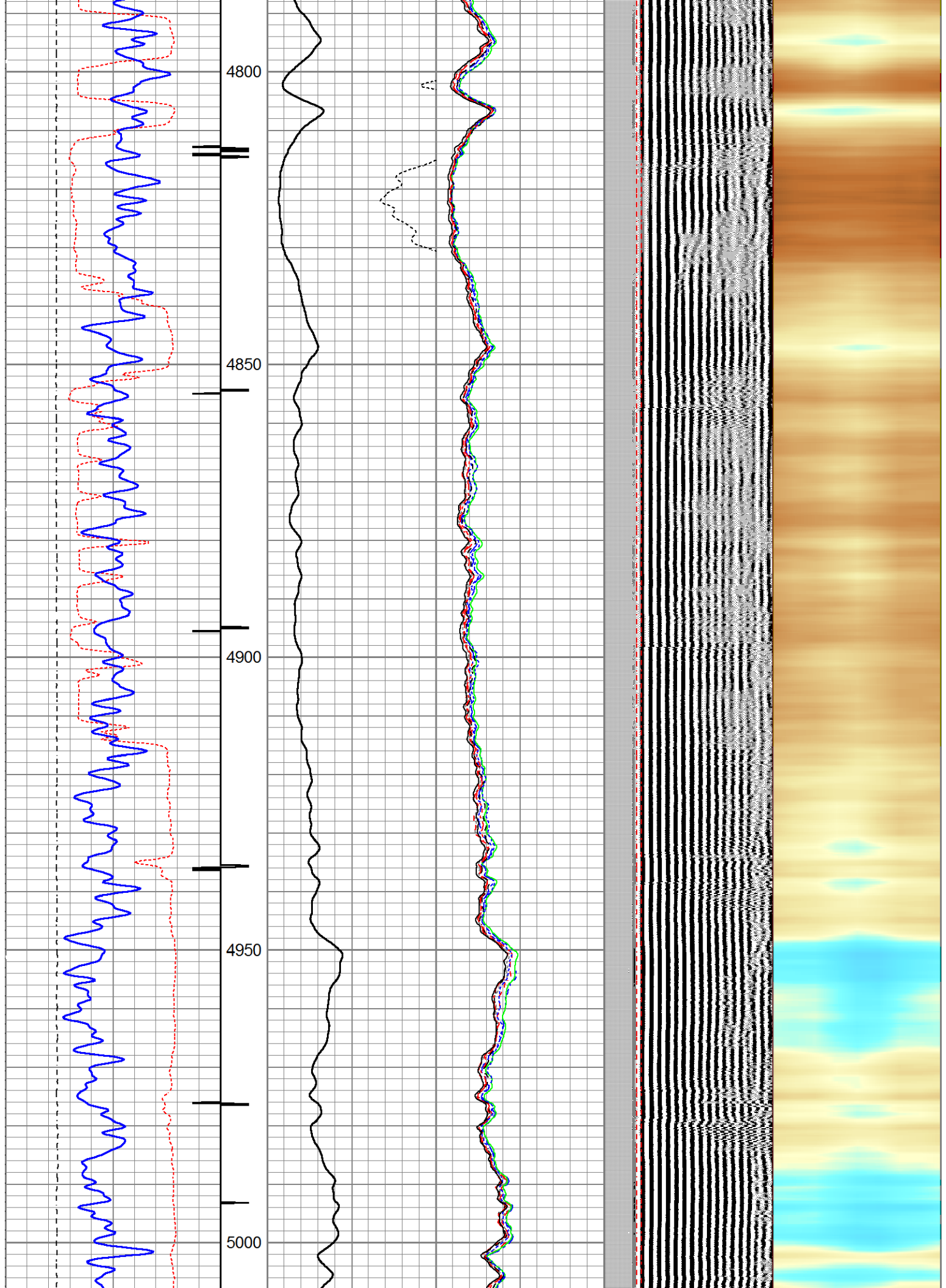


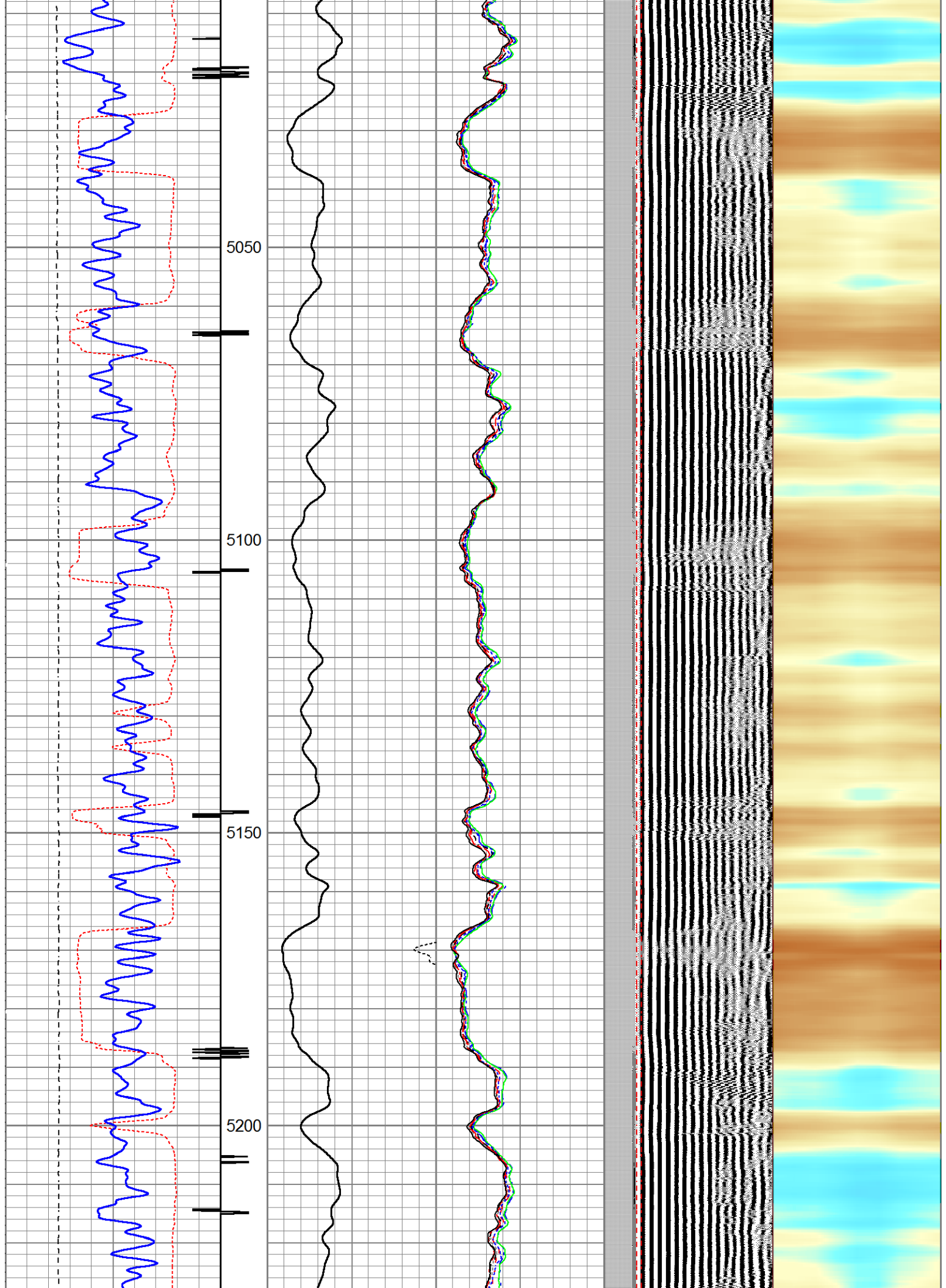


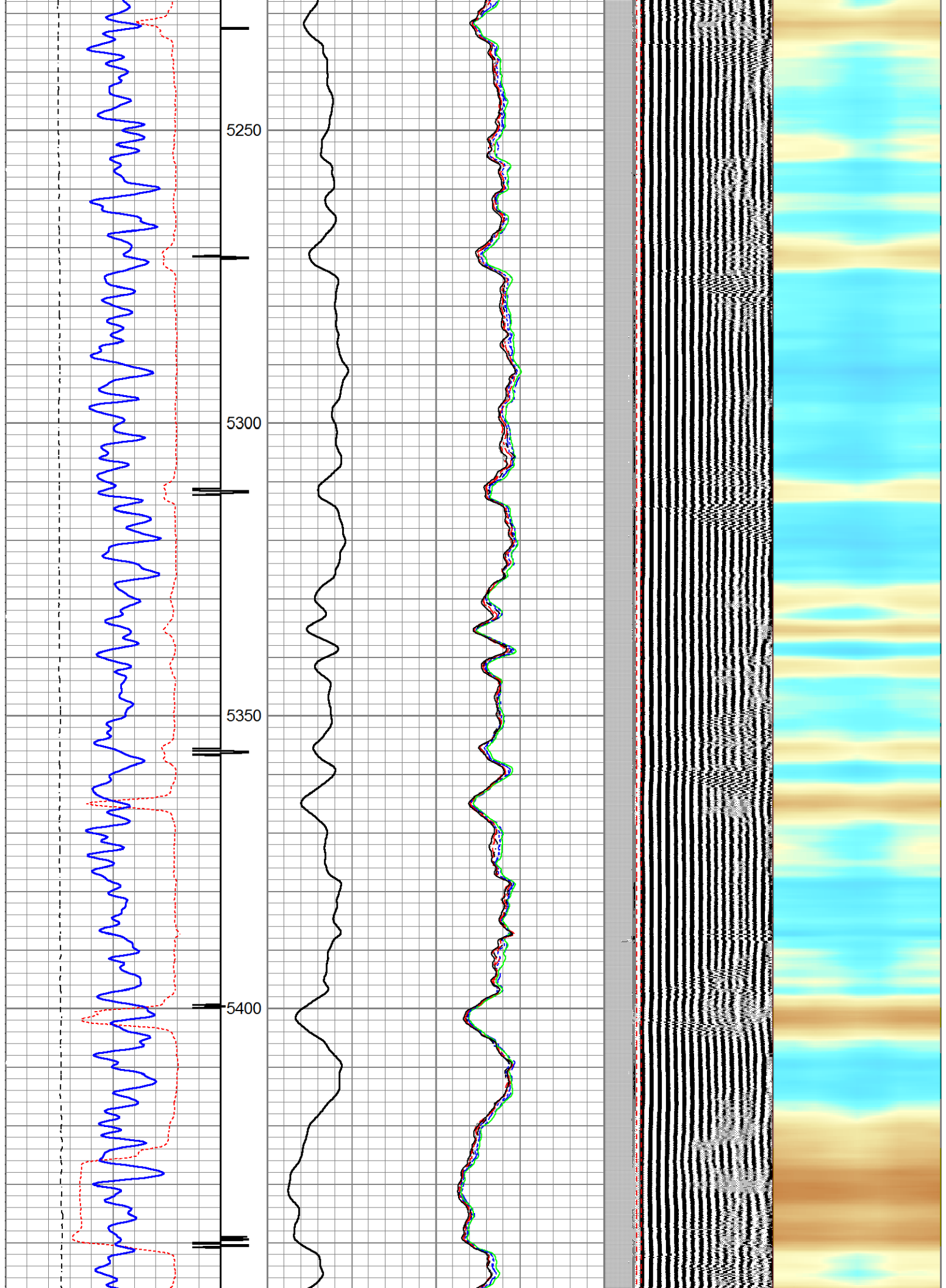




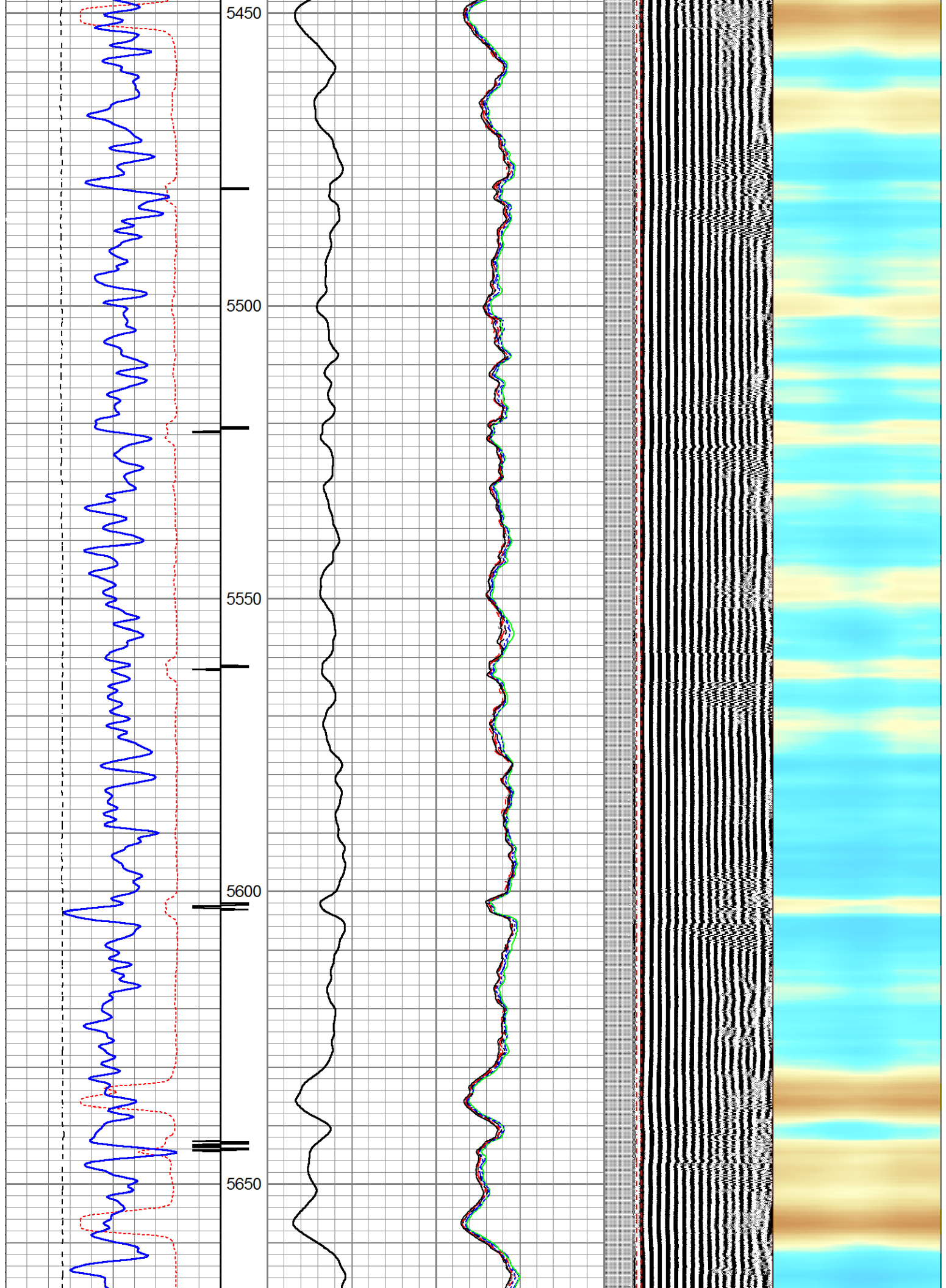


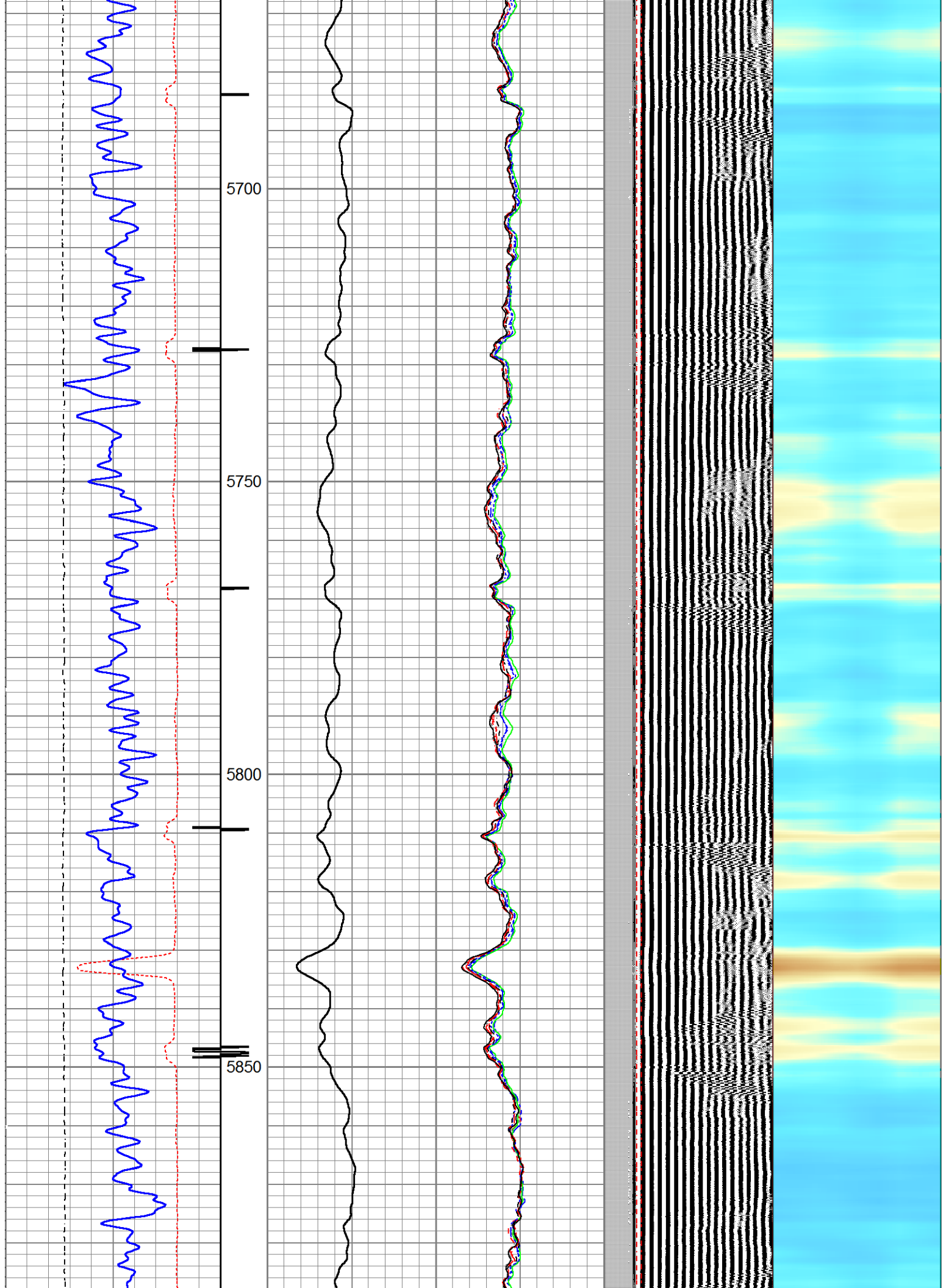


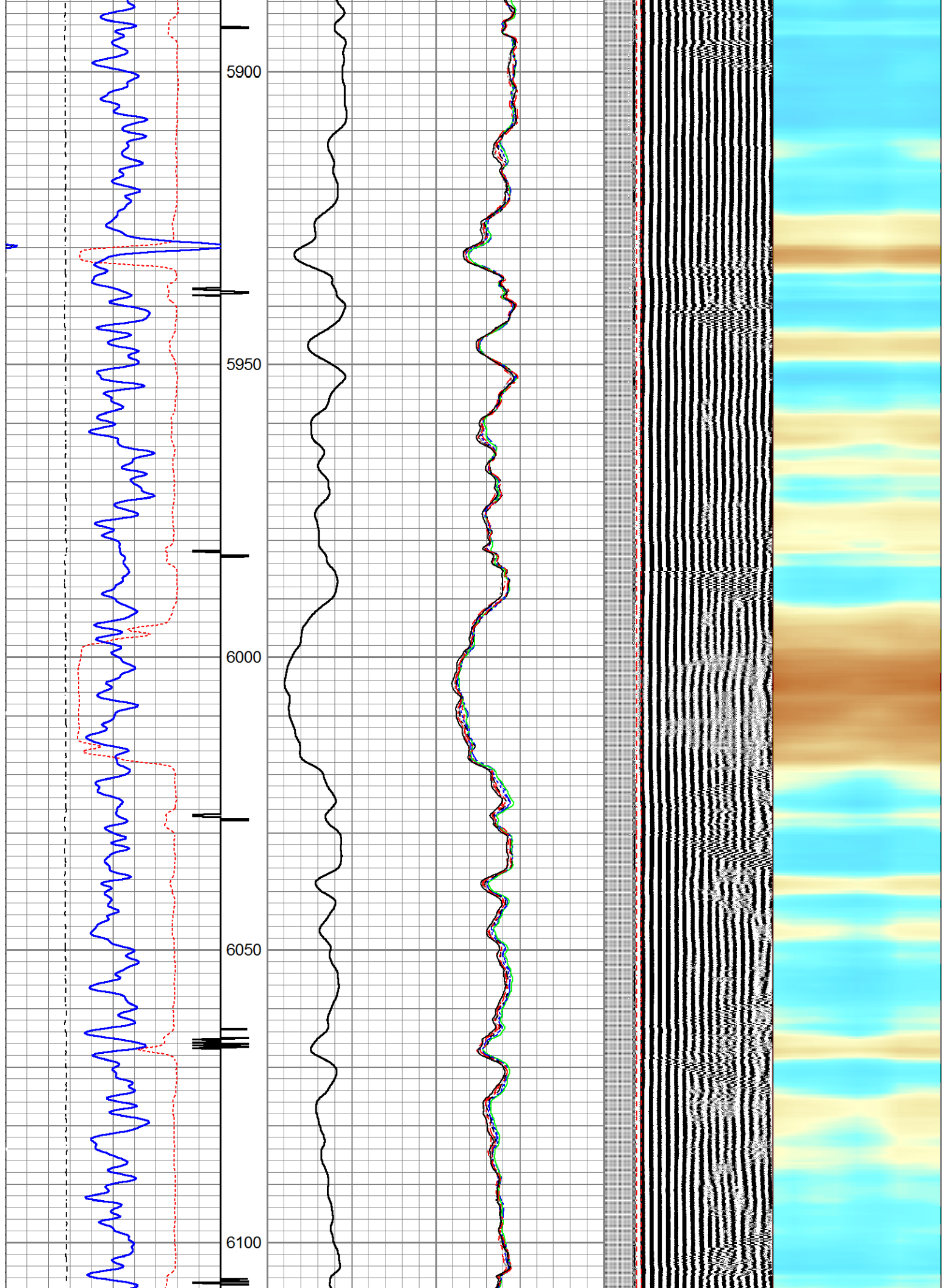




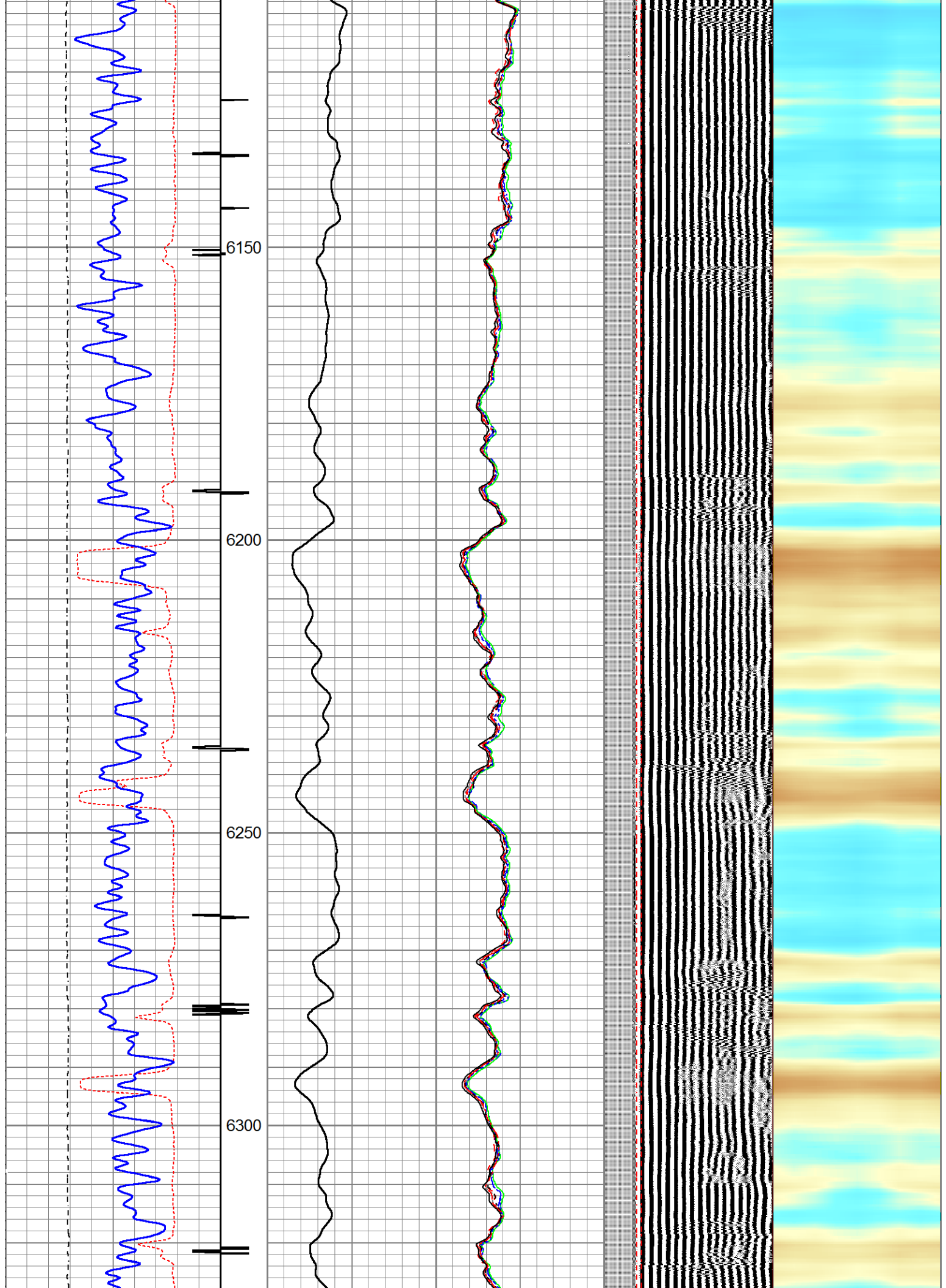


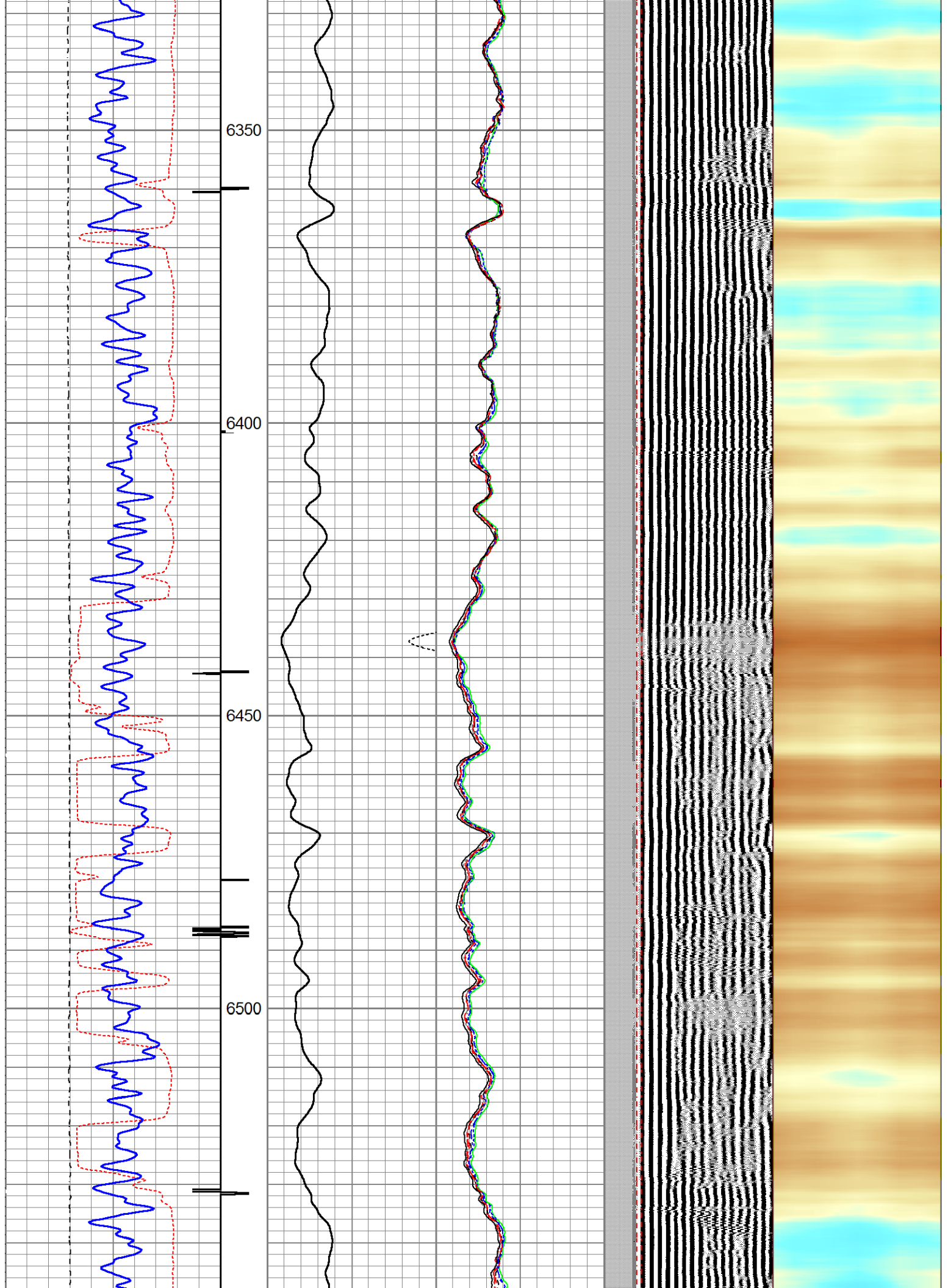


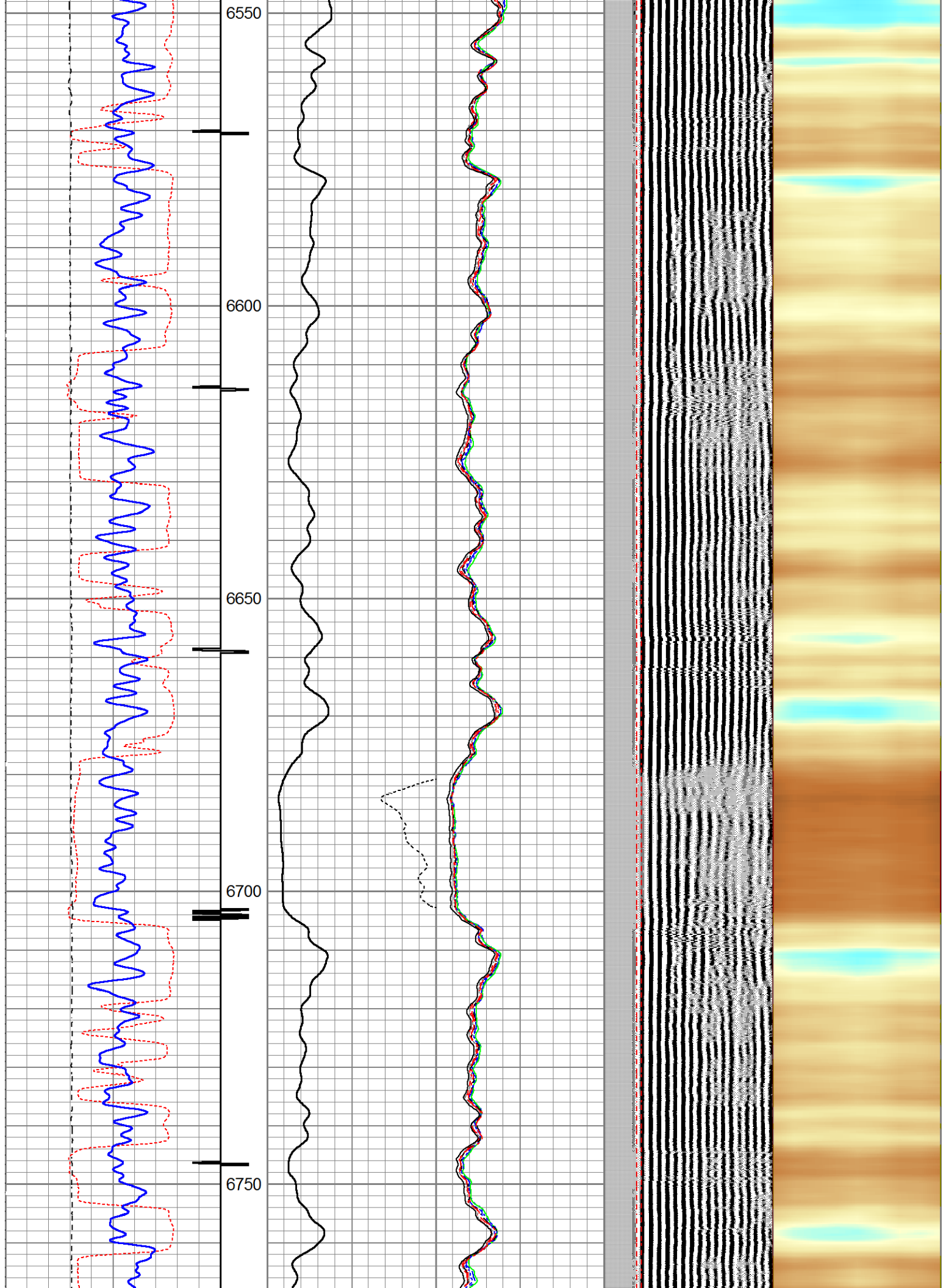




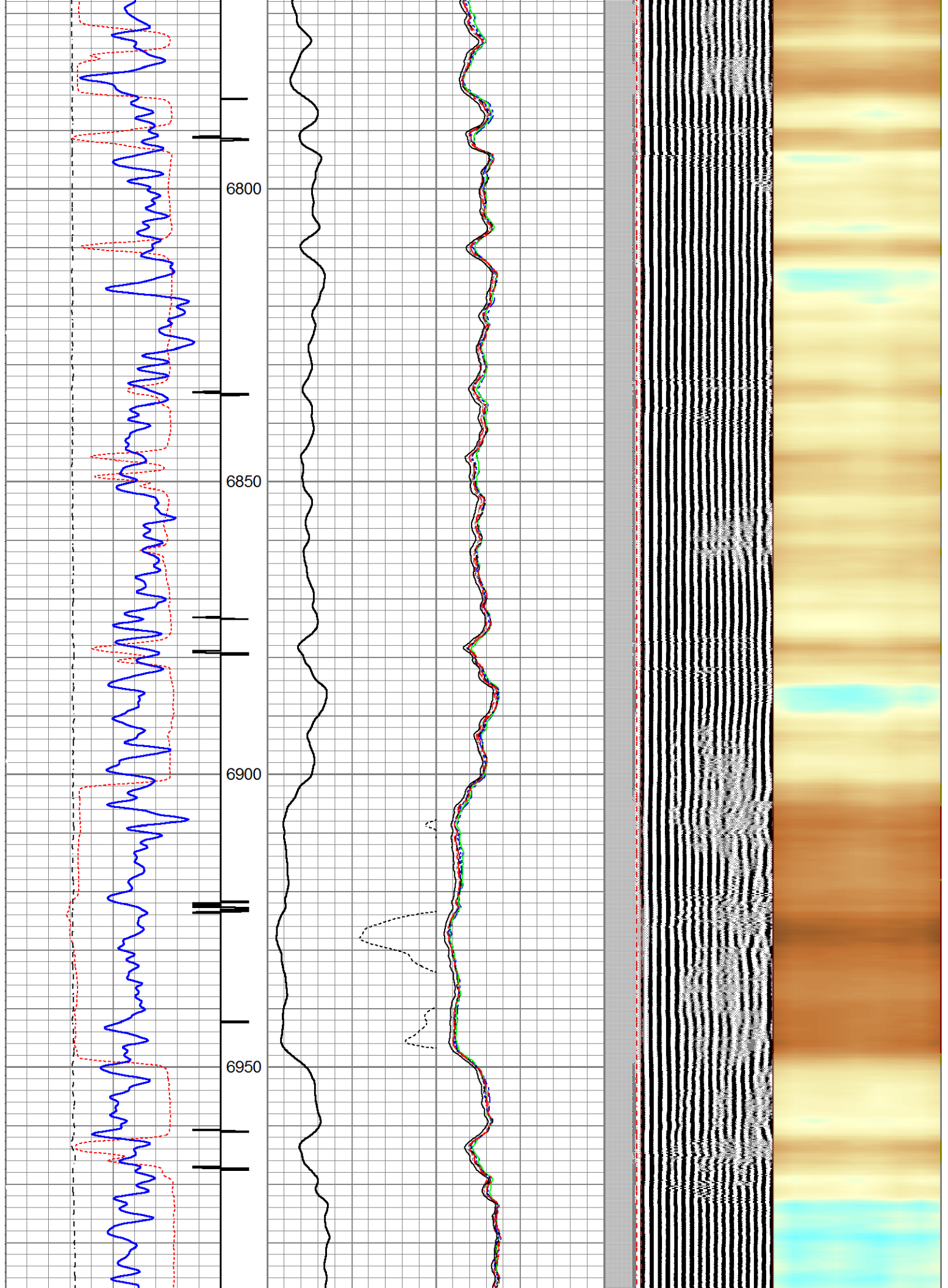


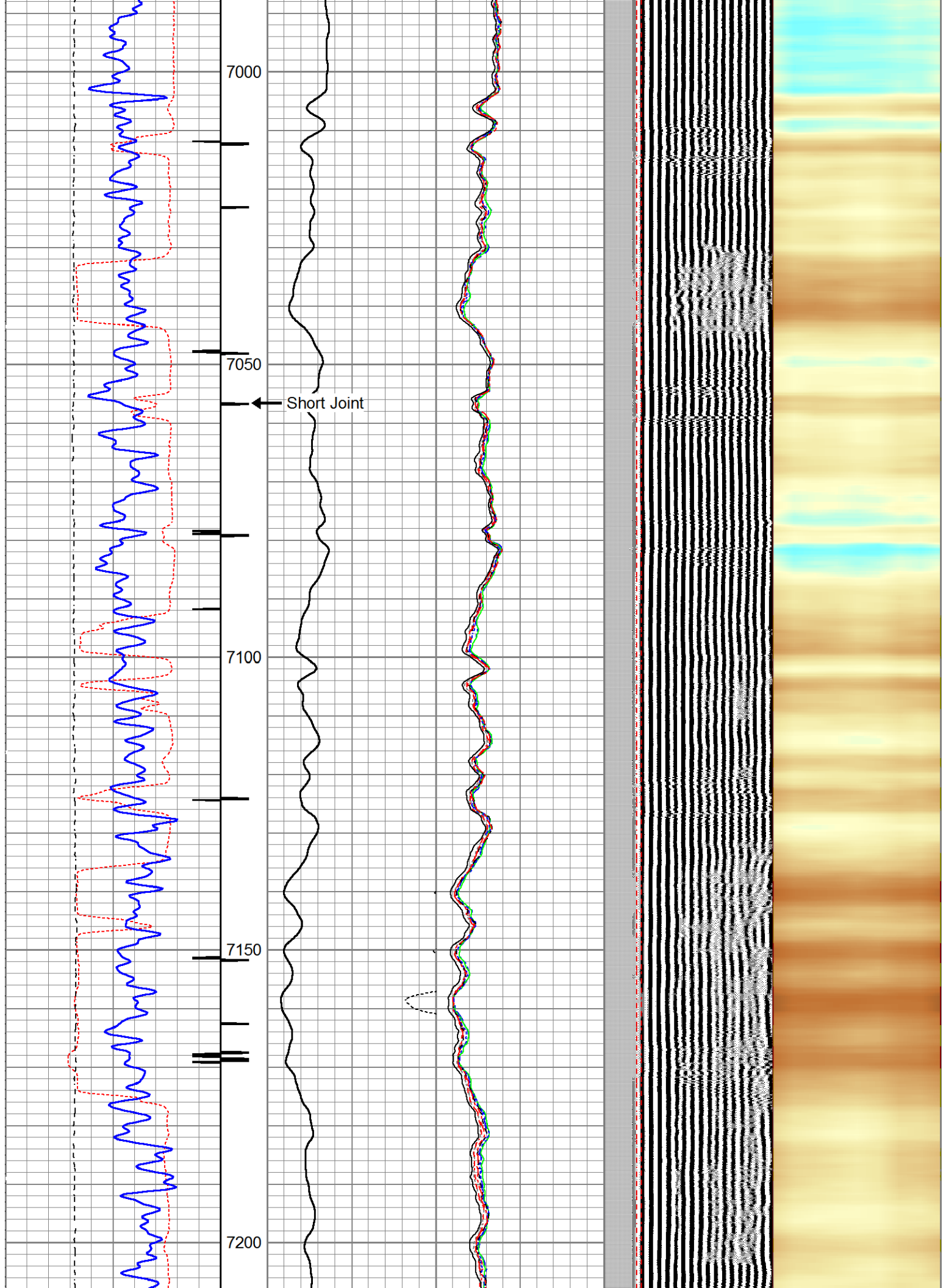


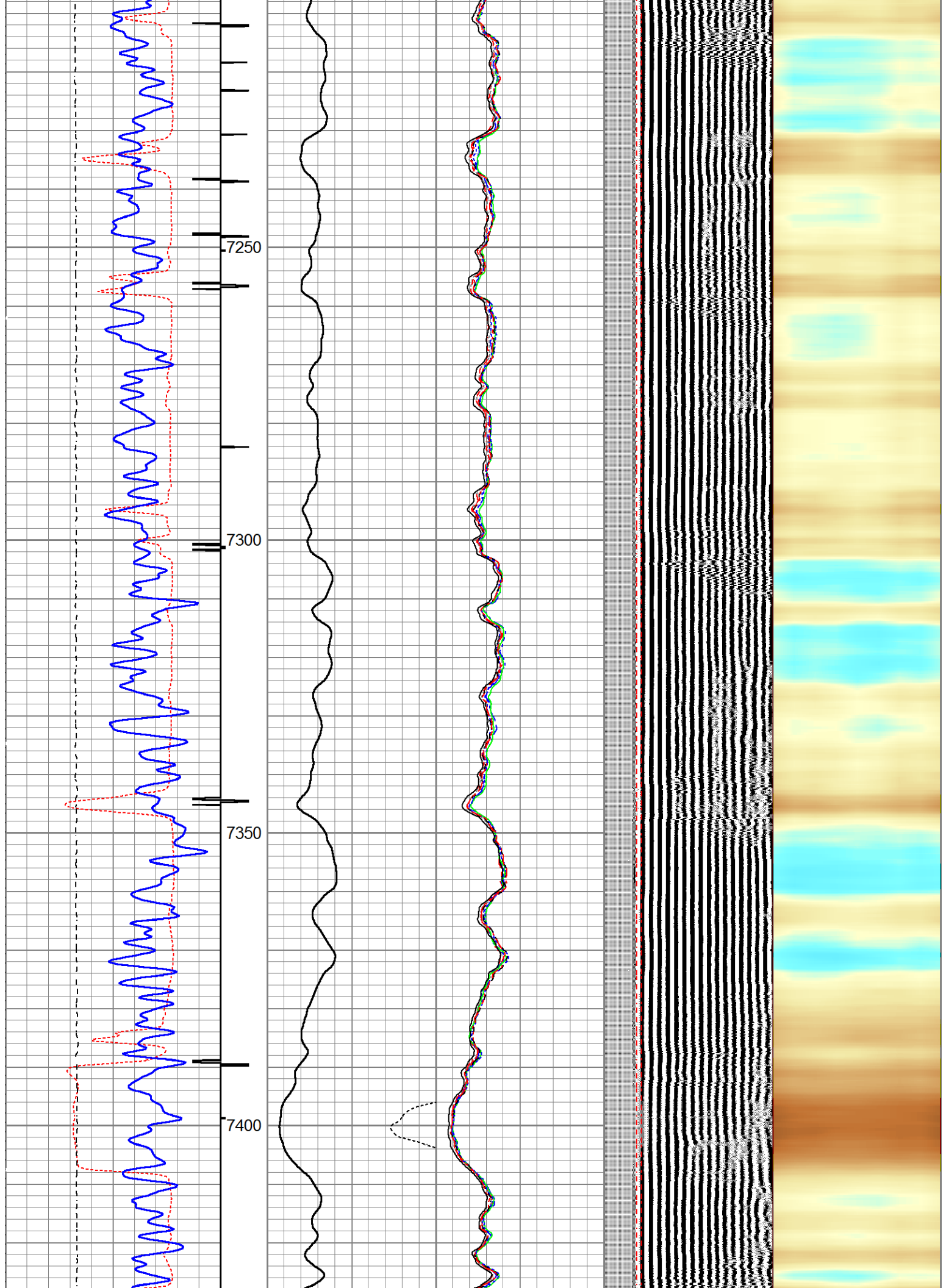




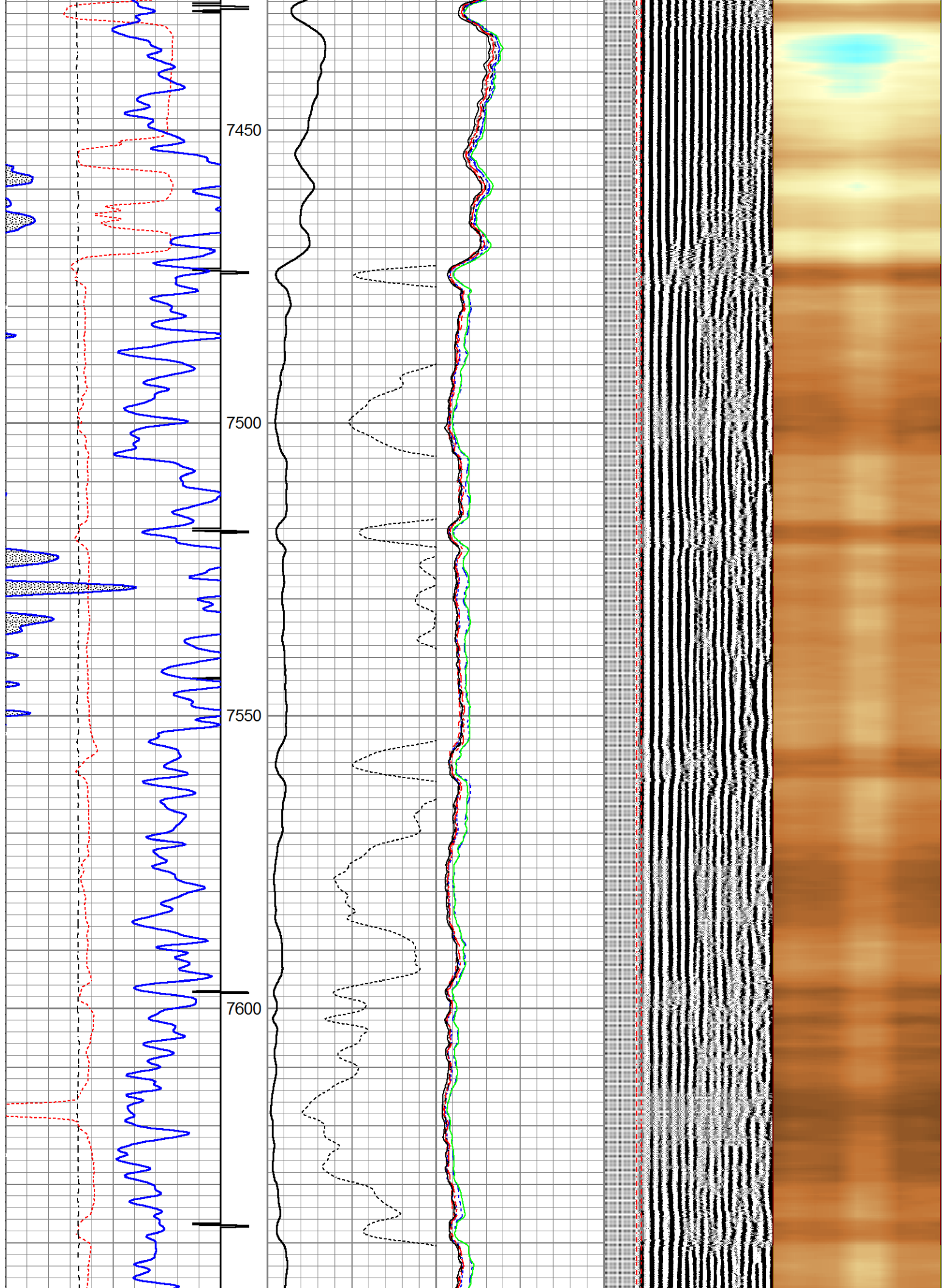


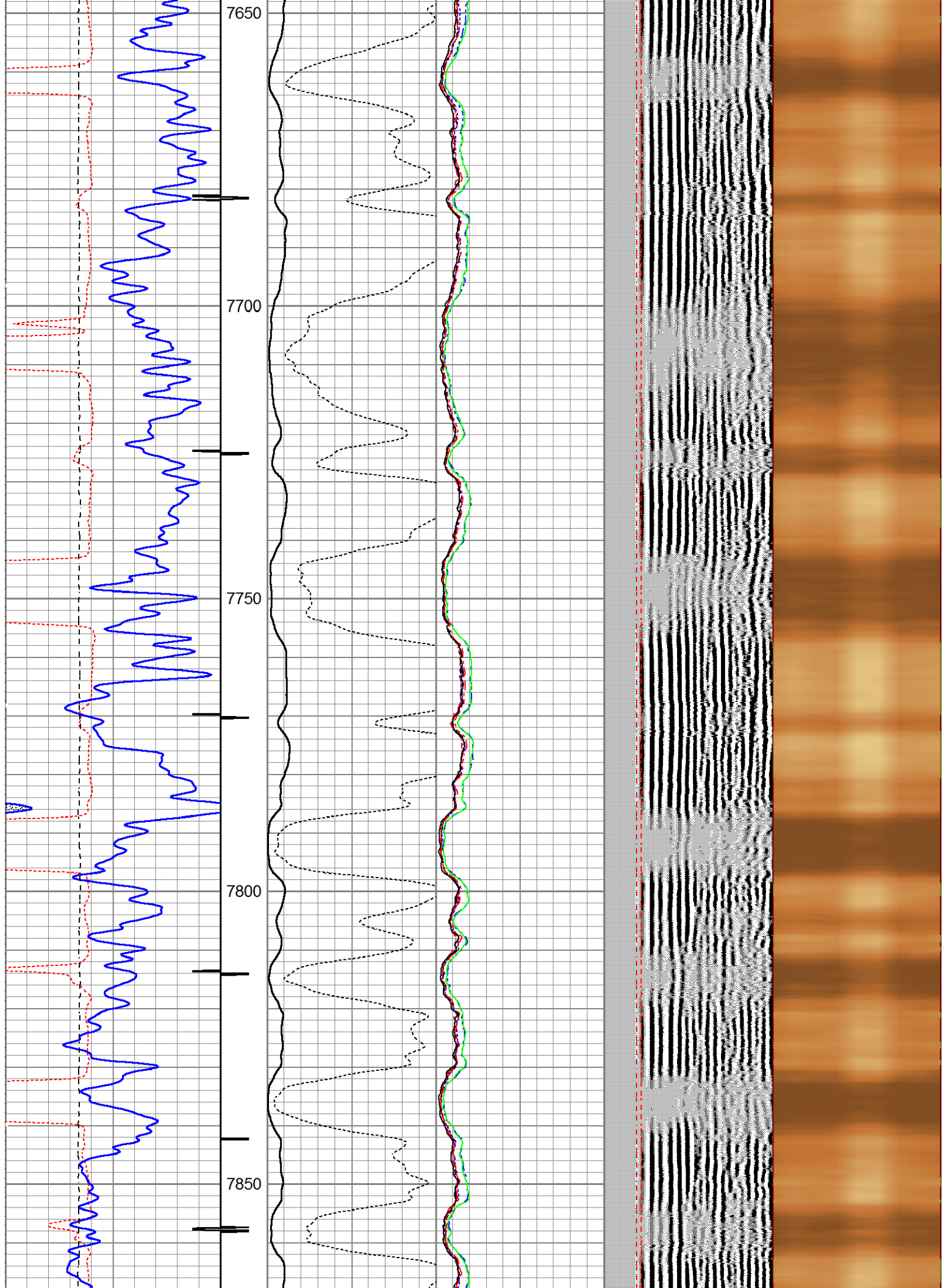




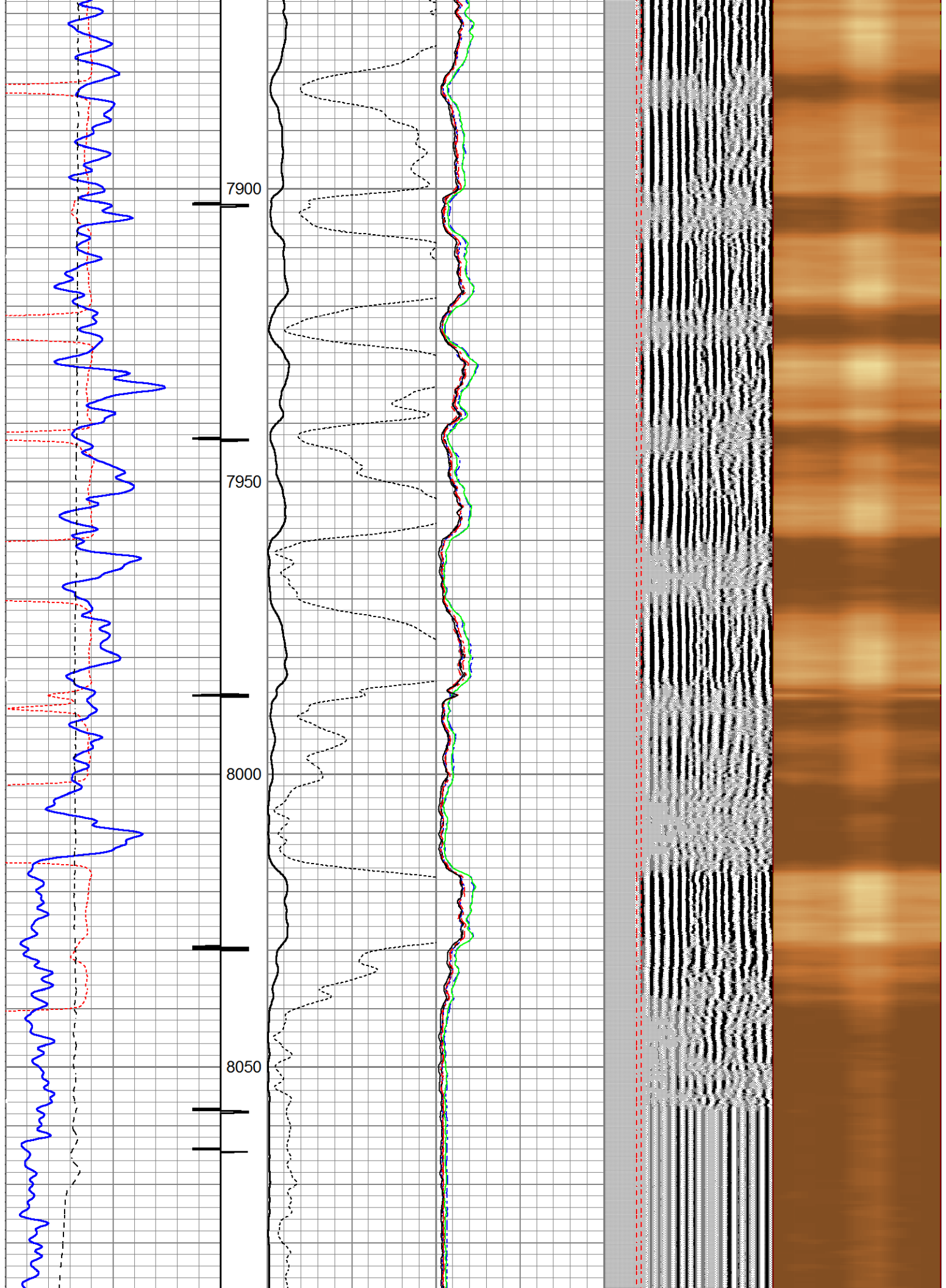




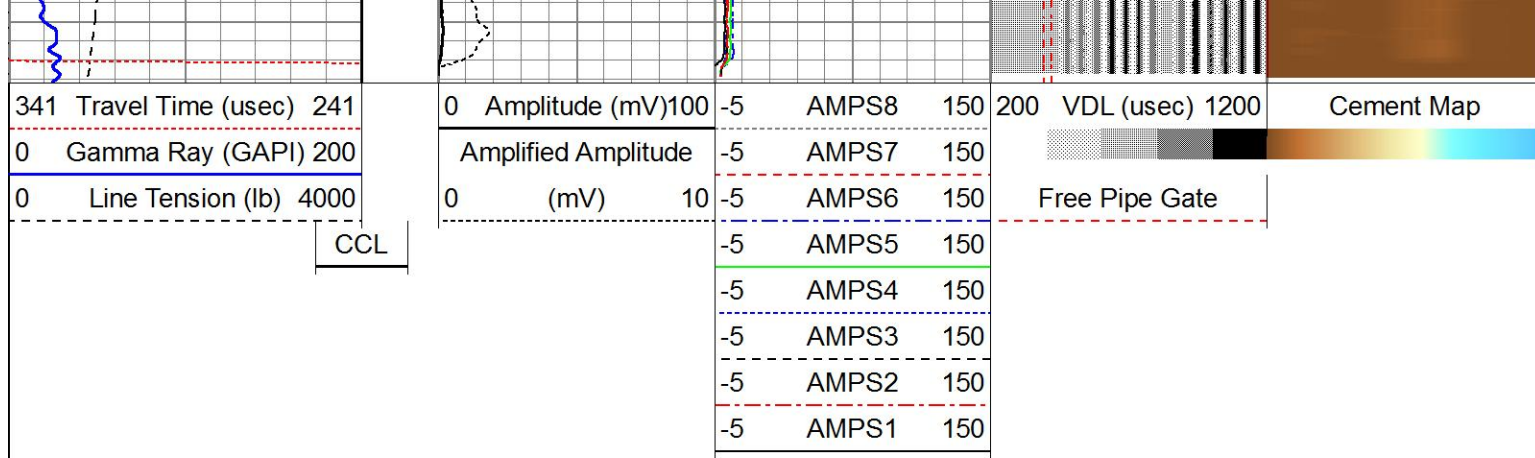










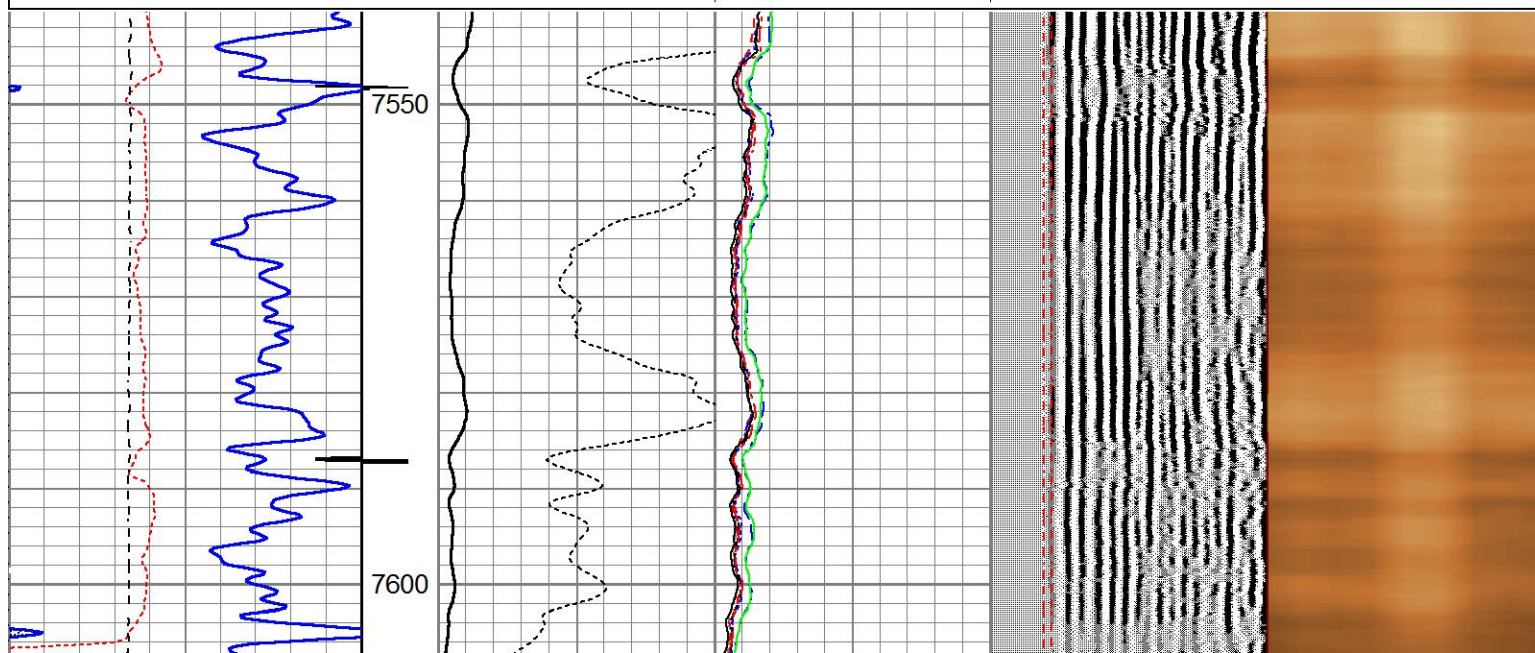
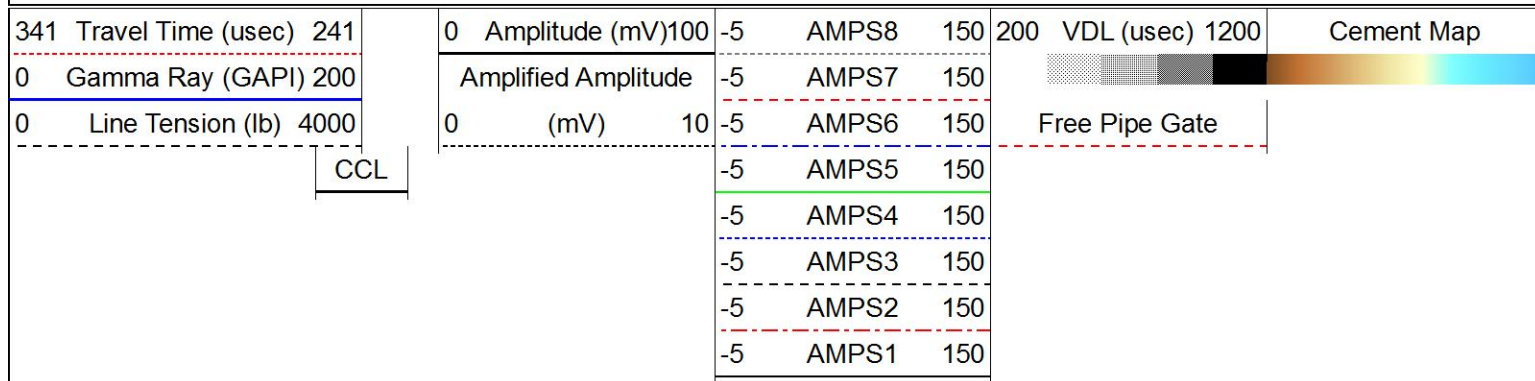


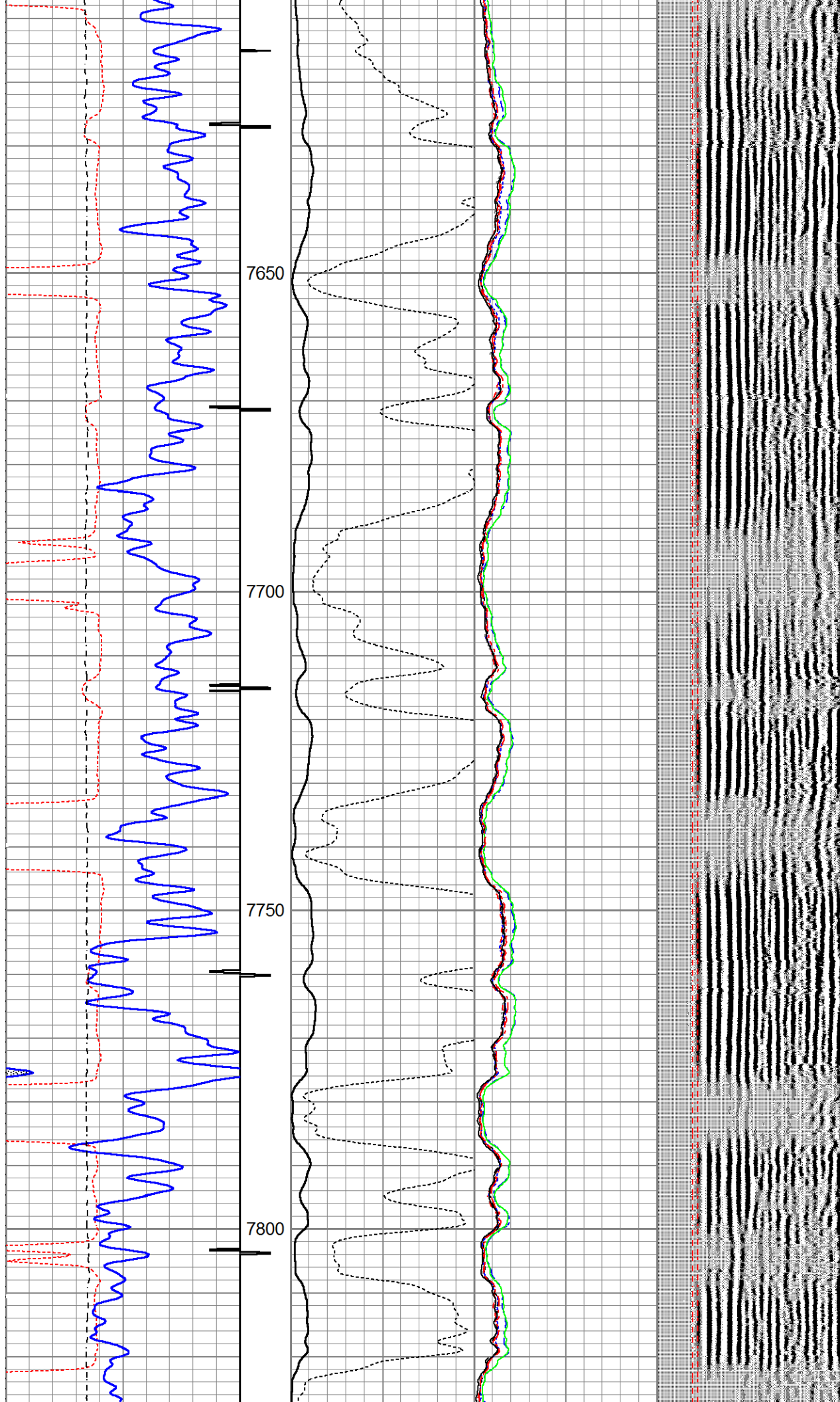
## Main Pass (0) PSI



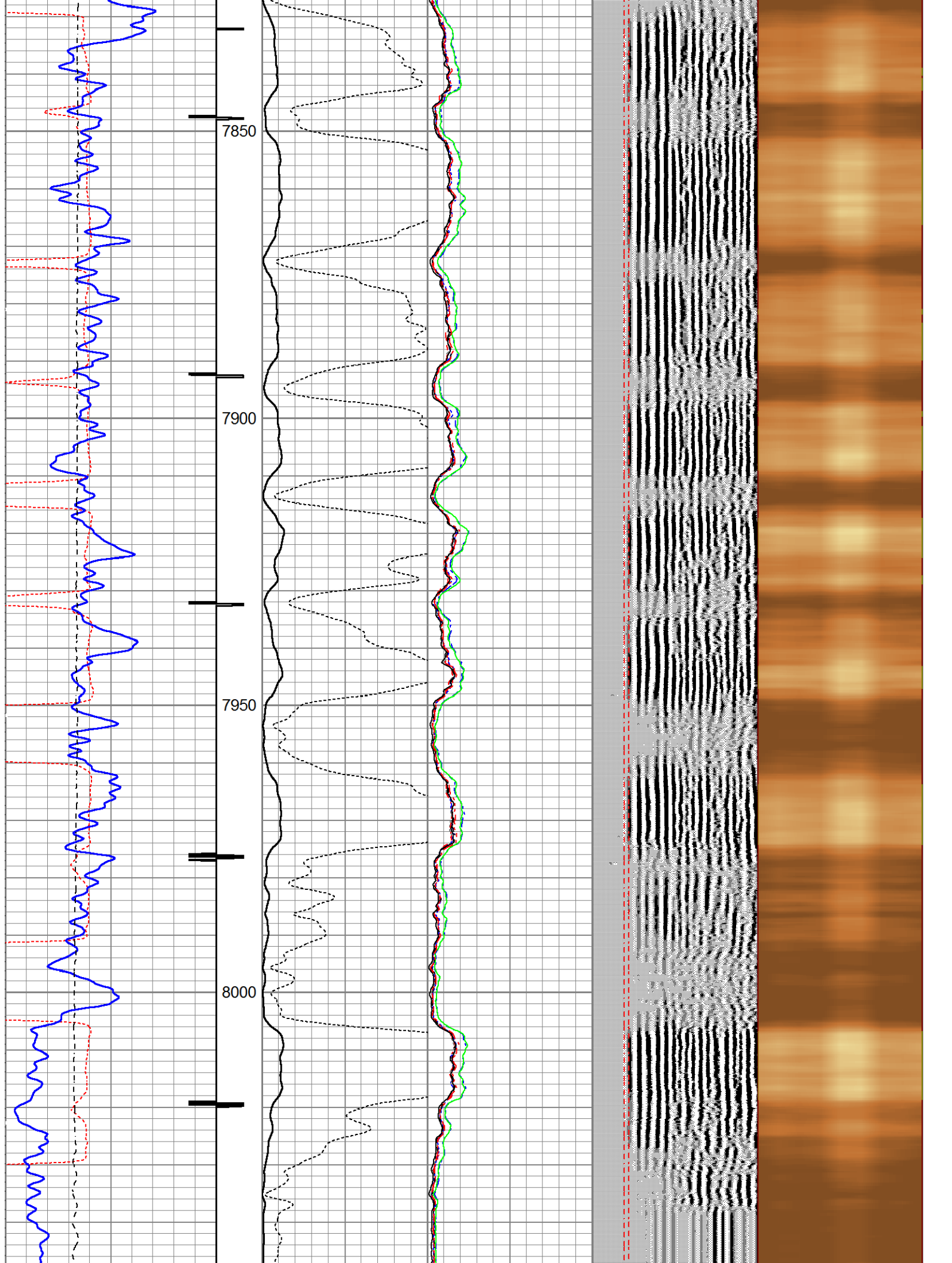
## Repeat Pass (0) PSI

Database File g:\petroshare corp shook pad\db\s\fs0212 ps shook 3-10-4cdh cbl.db  
 Dataset Pathname Shook3-10-4CDH/run1/repeat1  
 Presentation Format scbl5\_5  
 Dataset Creation Sun Mar 04 13:05:57 2018  
 Charted by Depth in Feet scaled 1:240

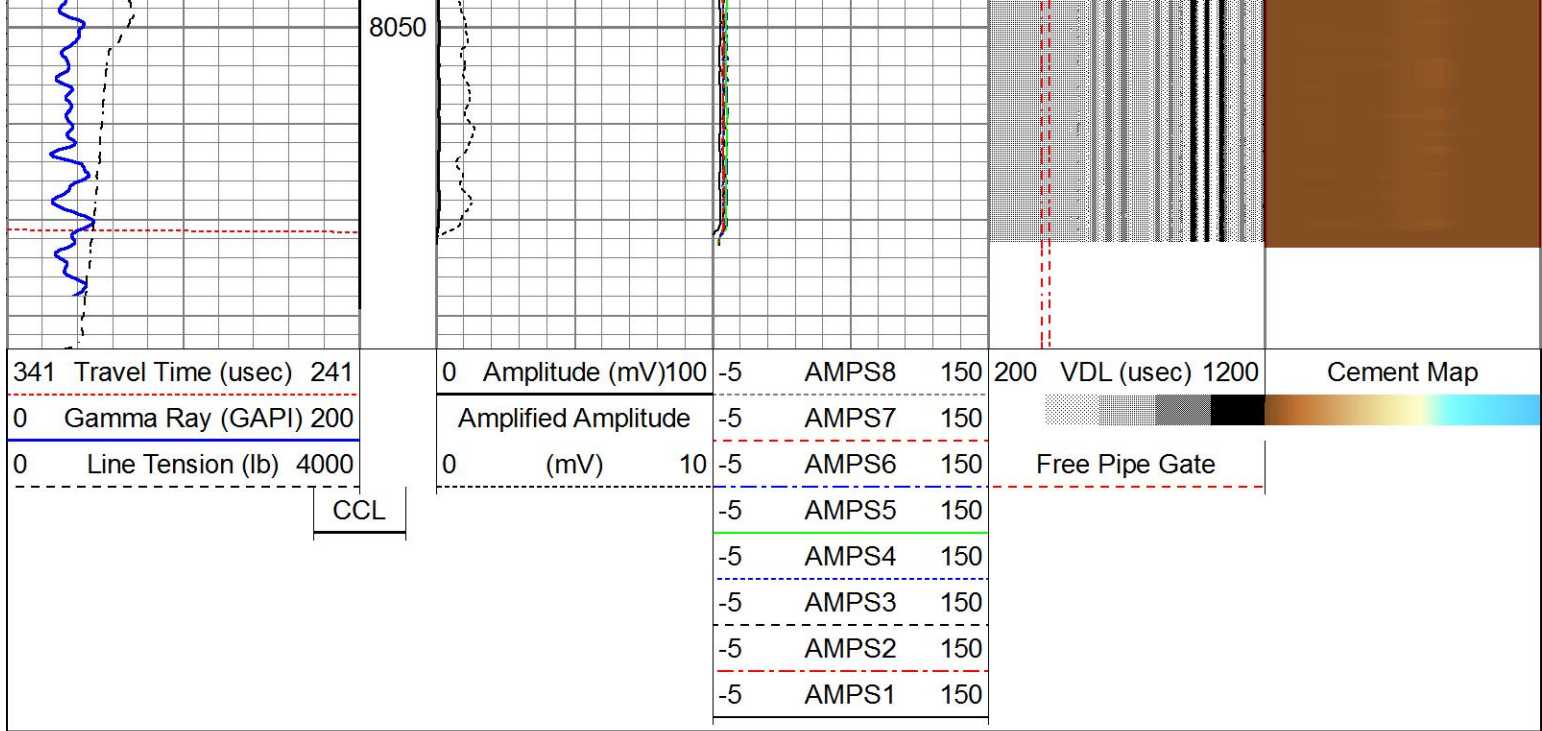












# Repeat Pass (0) PSI

## Log Variables

Database: G:\Petroshare Corp Shook Pad\DB's\fs0212 ps shook 3-10-4cdh cbl.db  
Dataset: field/Shook3-10-4CDH/run1/main1/\_vars\_

### Top - Bottom

BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft
7.875	100	5.5	0	20	72	1	0.8
PERFS	PPT uSec	SRFTEMP degF	TDEPTH ft				
0	0	0	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\fs0212 ps shook 3-10-4cdh cbl.db  
Dataset Pathname: Shook3-10-4CDH/run1/main1  
Dataset Creation: Sun Mar 04 13:17:27 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:	670.850 ft

Master Calibration, performed Sun Mar 04 07:43:12 2018:

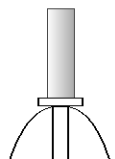
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	0.583	1.000	71.921	124.039	-0.366
CAL	0.004	0.911				
5'	0.000	0.469	1.000	71.921	151.176	0.963
SUM						
S1	0.042	0.591	0.000	100.000	182.097	-7.629
S2	0.010	0.570	0.000	100.000	178.545	-1.765
S3	0.009	0.569	0.000	100.000	178.716	-1.614
S4	0.009	0.578	0.000	100.000	175.922	-1.628
S5	0.011	0.596	0.000	100.000	170.838	-1.862
S6	0.011	0.608	0.000	100.000	167.546	-1.884
S7	0.009	0.603	0.000	100.000	168.272	-1.502
S8	0.009	0.586	0.000	100.000	173.266	-1.582

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	0.911	1.000	0.000

Air Zero Calibration, performed Sat Mar 03 18:55:30 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)
			CHD-1.4375CHD Titan Cable Head 1 7/16	1.00	1.44	10.00





