



Radial Cement Bond
Gamma Ray CCL
Log

Company	Petroshare Corp	Country	
Well	SHOOK 3-10-3NBH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO		
Company	Petroshare Corp		
Well	SHOOK 3-10-3NBH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO	Country	
Location:	API # : 05-001-09977		Other Services
	NWSE SEC.03-T1S-R67W 2058' FSL & 2154' 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	13744'		
Depth Logger	7838'		
Bottom Logged Interval	7826'		
Top Log Interval	50'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	2710'		
Time Well Ready	18:30		
Time Logger on Bottom	19:40		
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 6834' - 6856'

THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

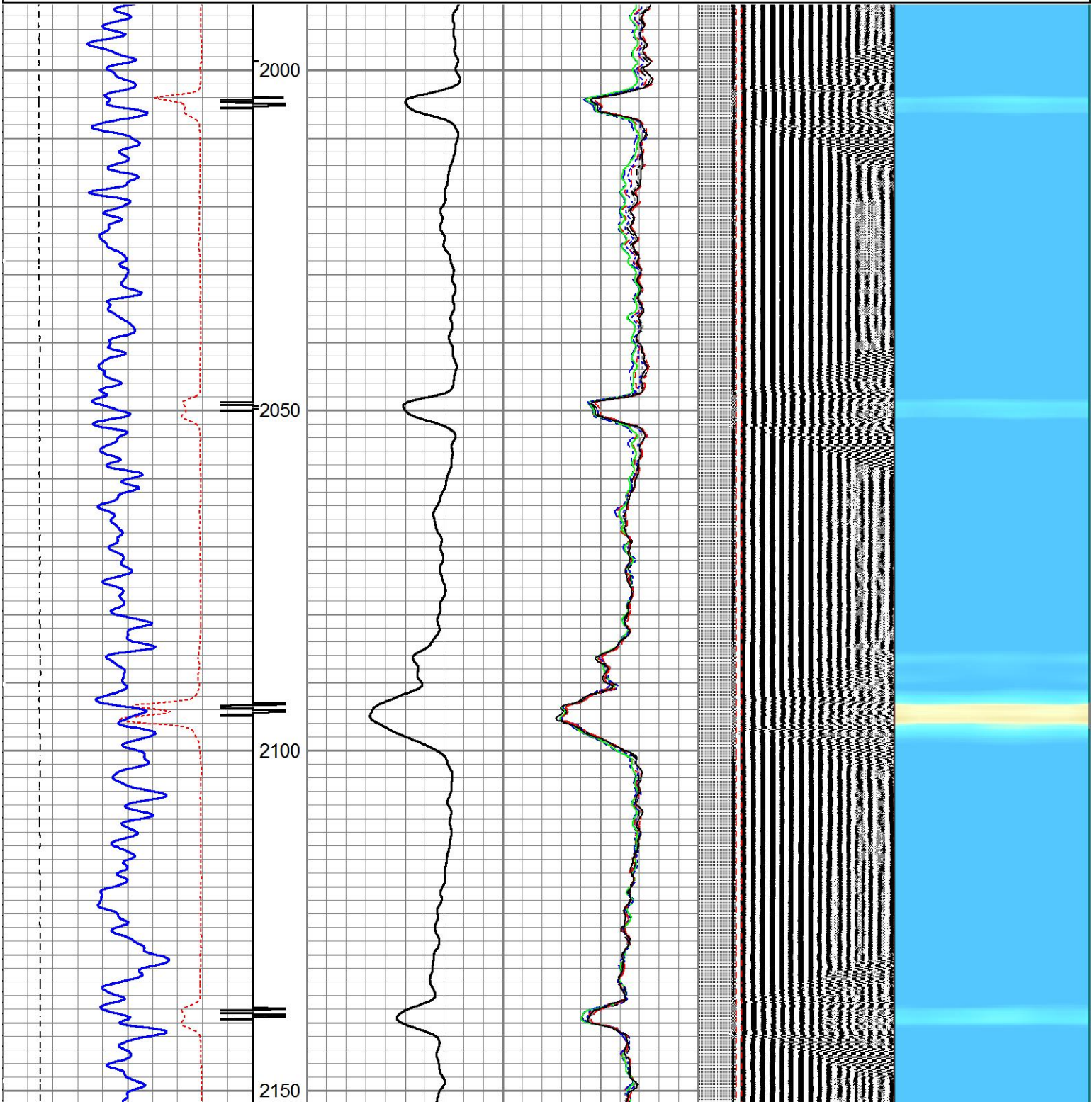
M. NOWICKI, B. SISSON, S. BARNETT

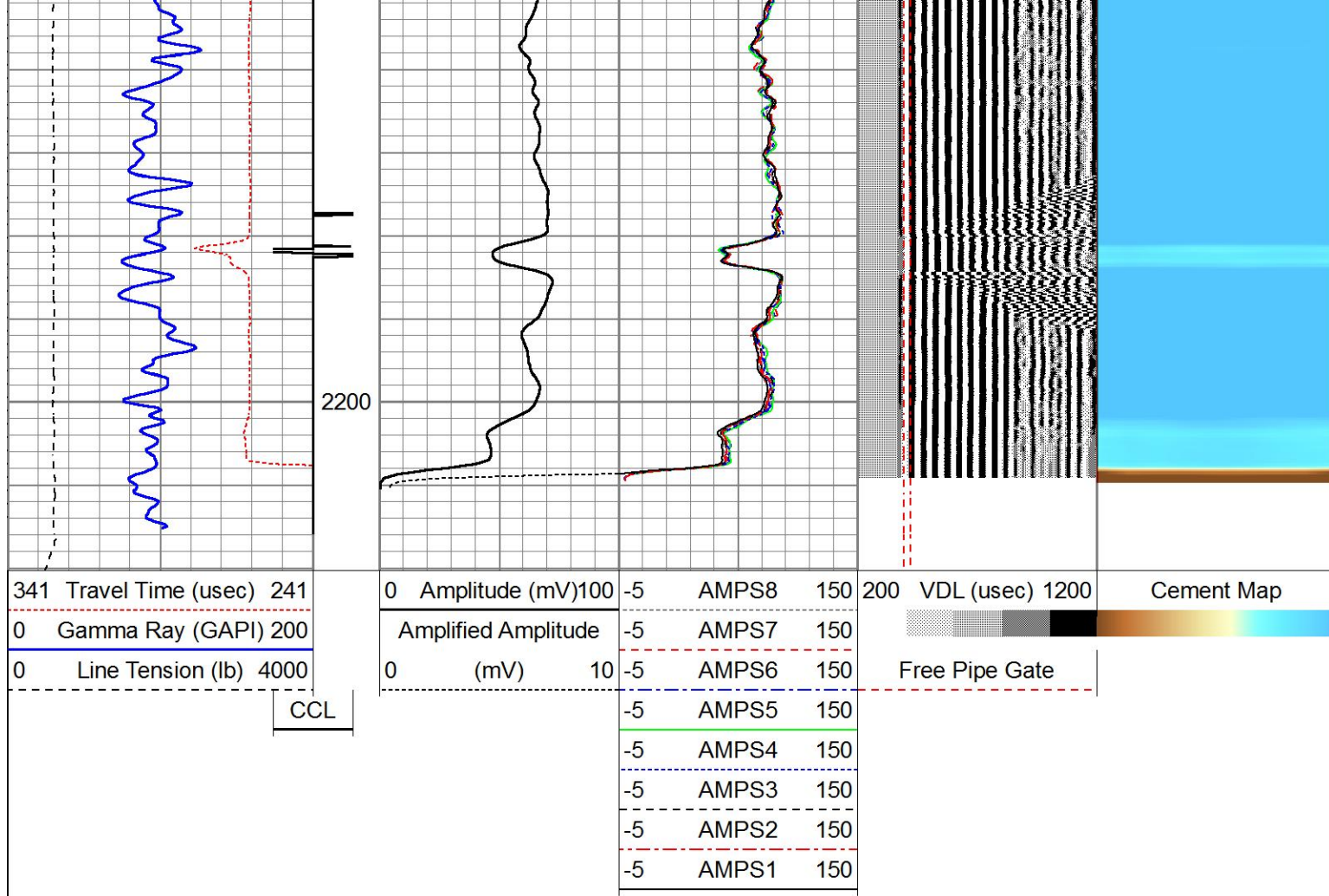


Free Pipe Pass (0) PSI

Database File	g:\petroshare corp shook pad\db\fs0214 ps shook 3-10-3nbh cbl.db
Dataset Pathname	Shook3-10-3NBH/run1/free3
Presentation Format	scbl5_5
Dataset Creation	Sun Mar 04 18:54:24 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		
						-5	AMPS5	150				
						-5	AMPS4	150				
						-5	AMPS3	150				
						-5	AMPS2	150				
						-5	AMPS1	150				



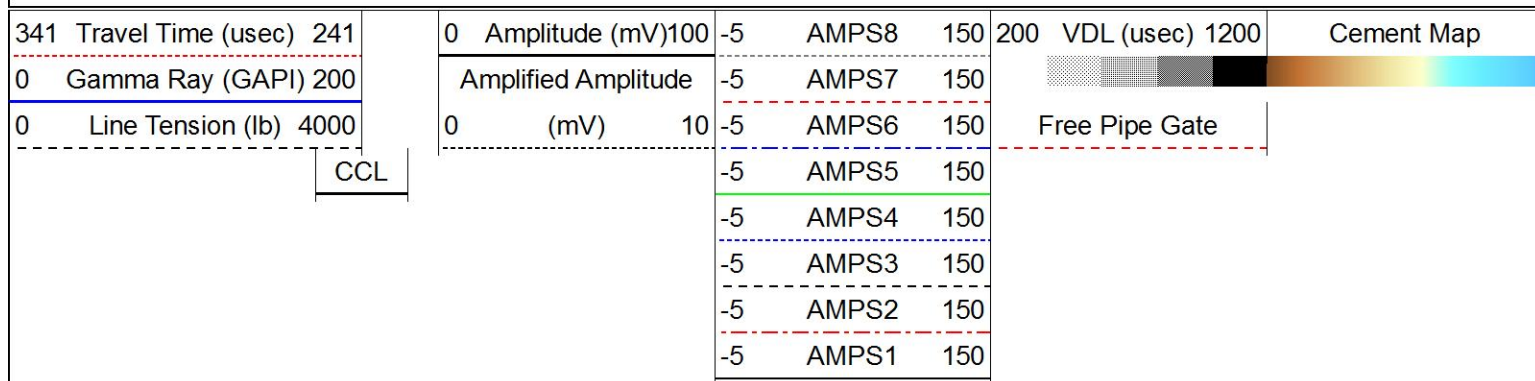


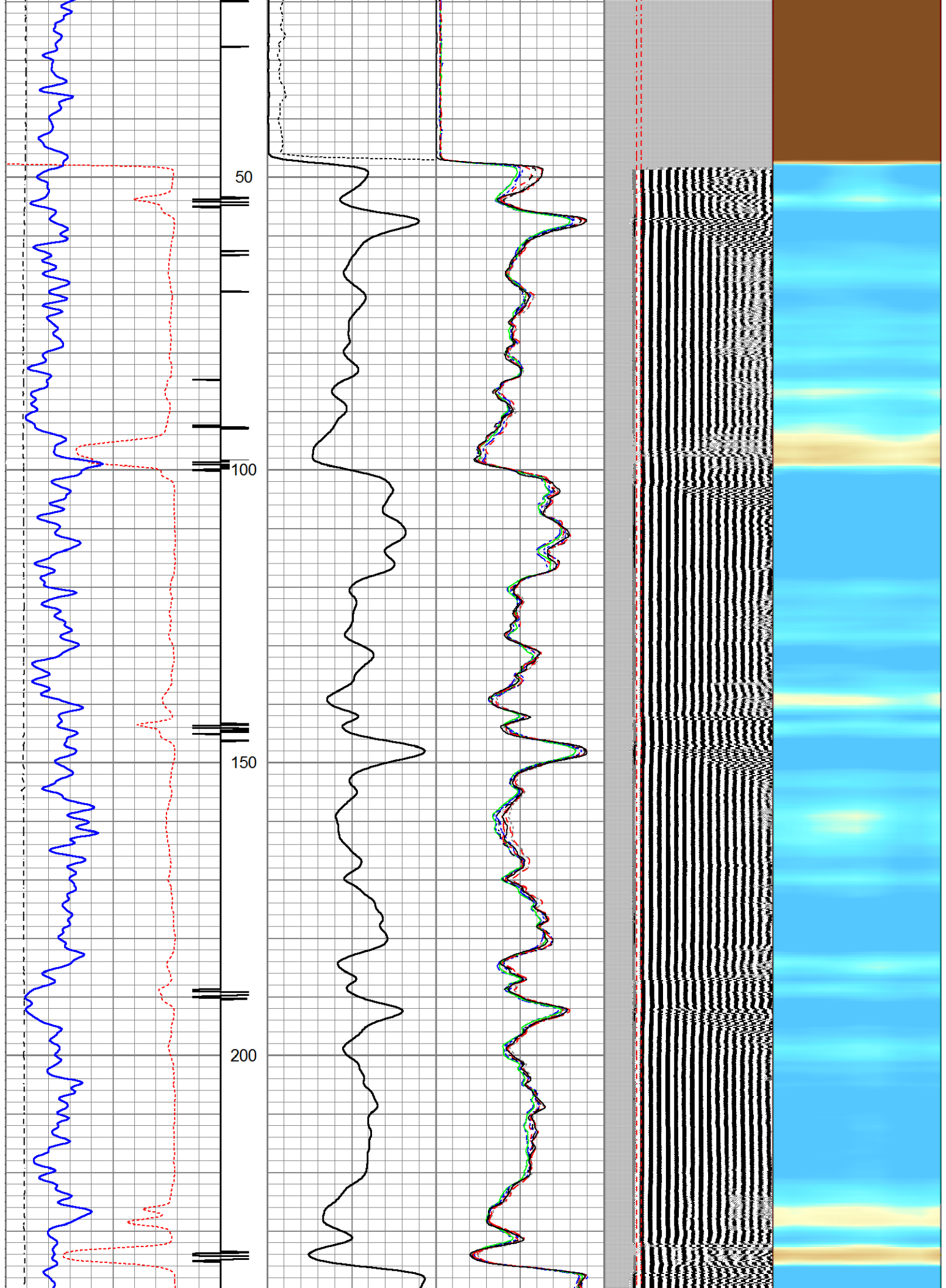
Free Pipe Pass (0) PSI

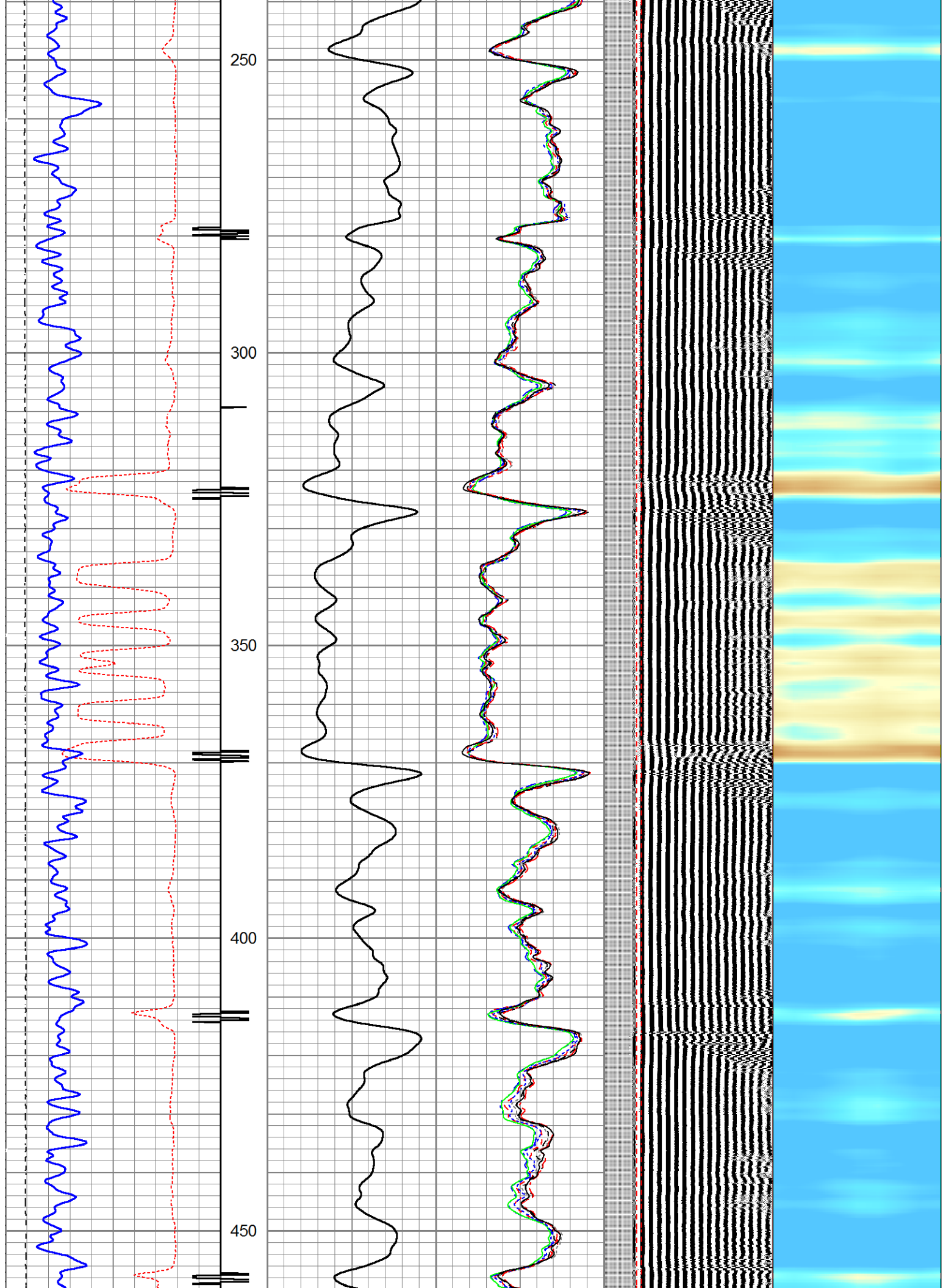


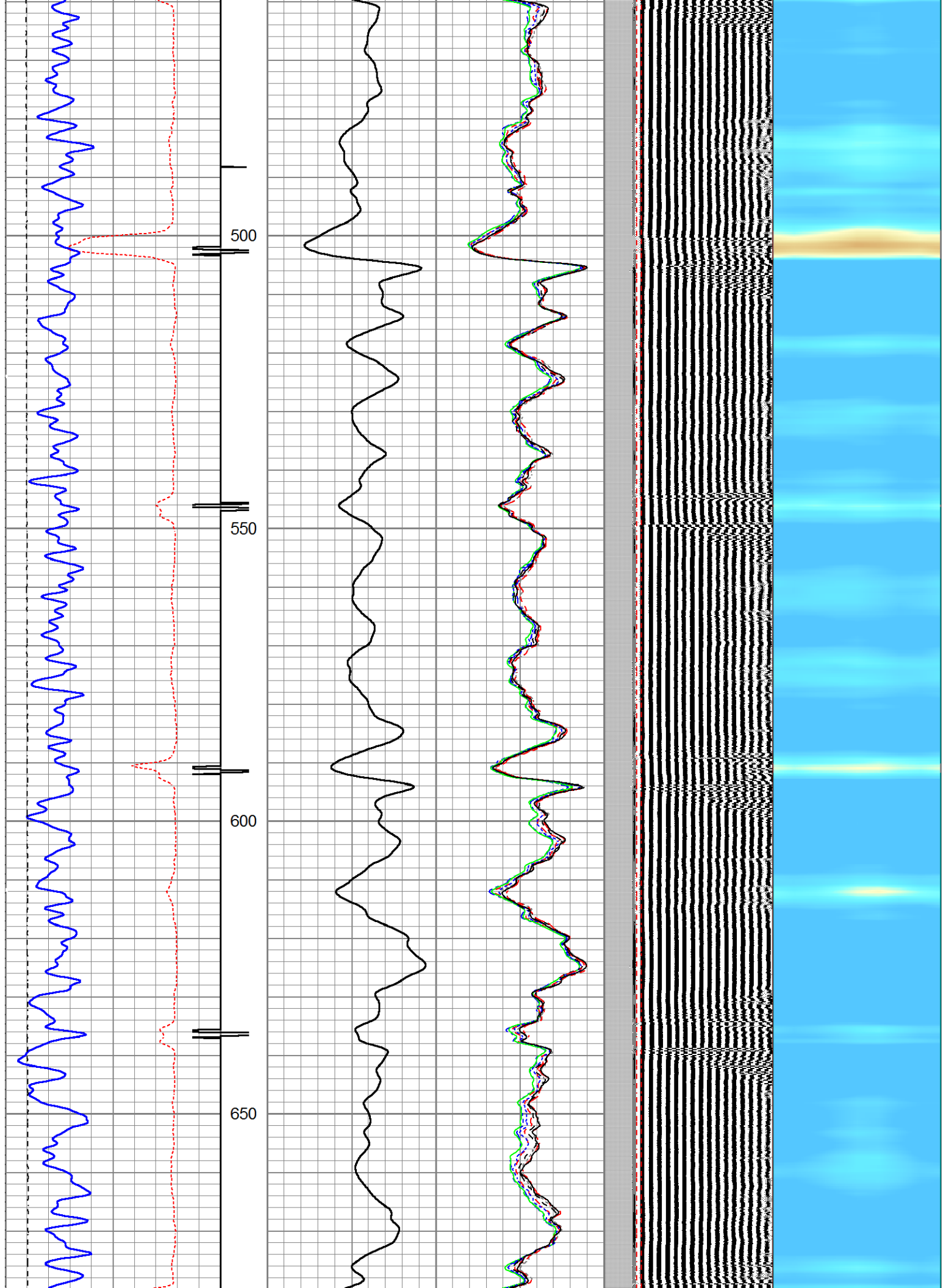
Main Pass (0) PSI

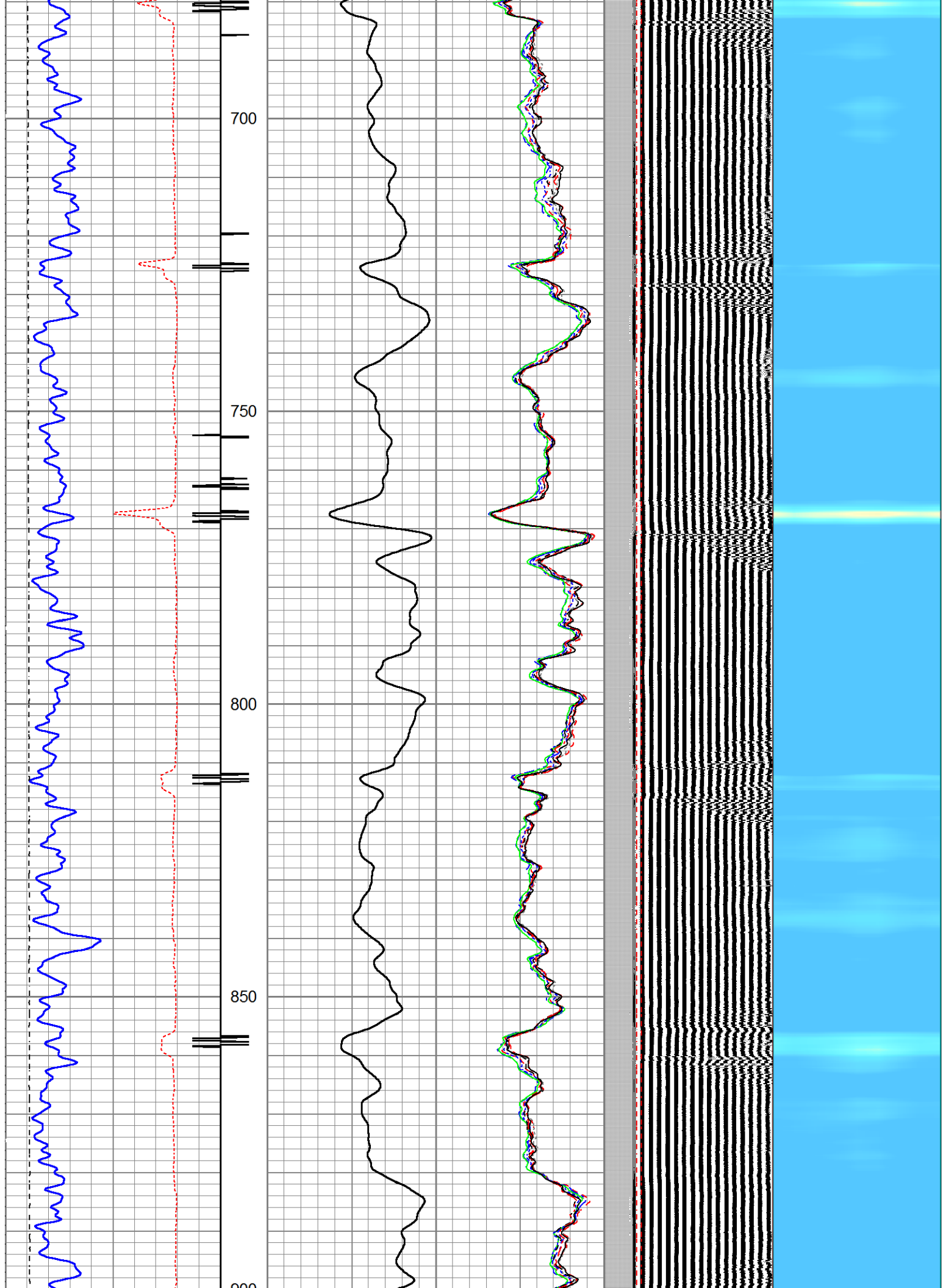
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 Dataset Pathname Shook3-10-3NBH/run1/main1
 Presentation Format scbl5_5
 Dataset Creation Sun Mar 04 19:33:50 2018
 Charted by Depth in Feet scaled 1:240

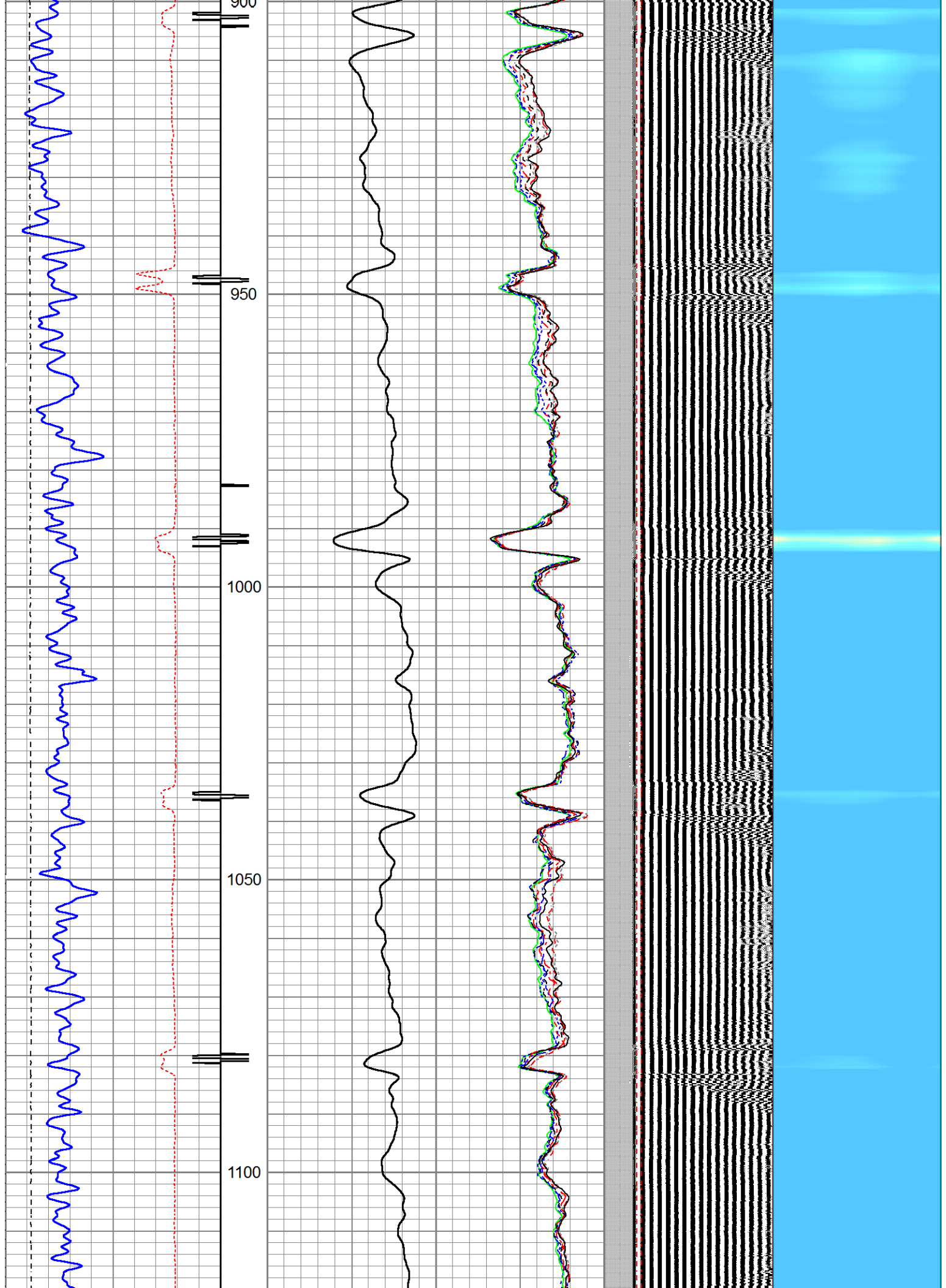


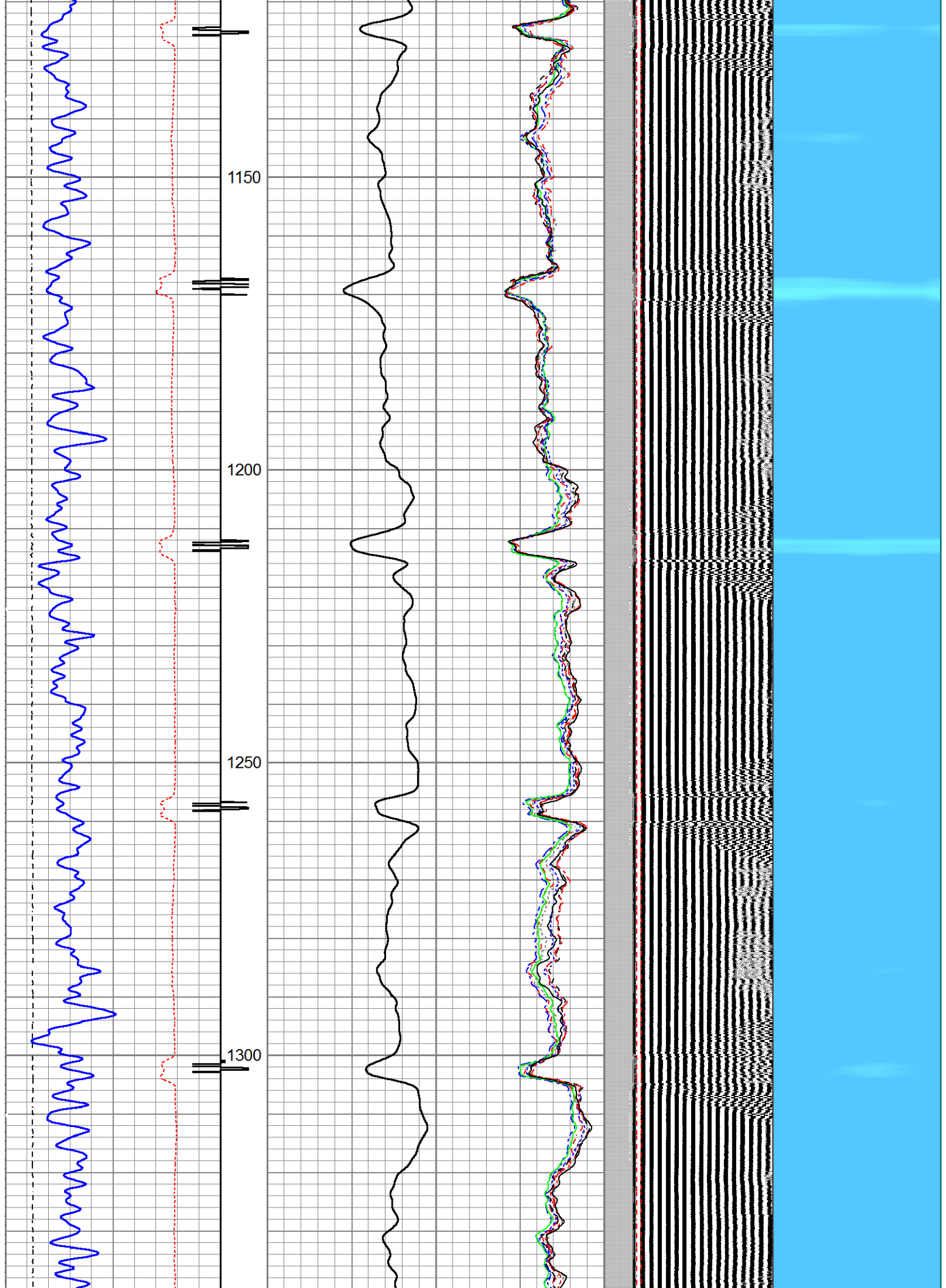


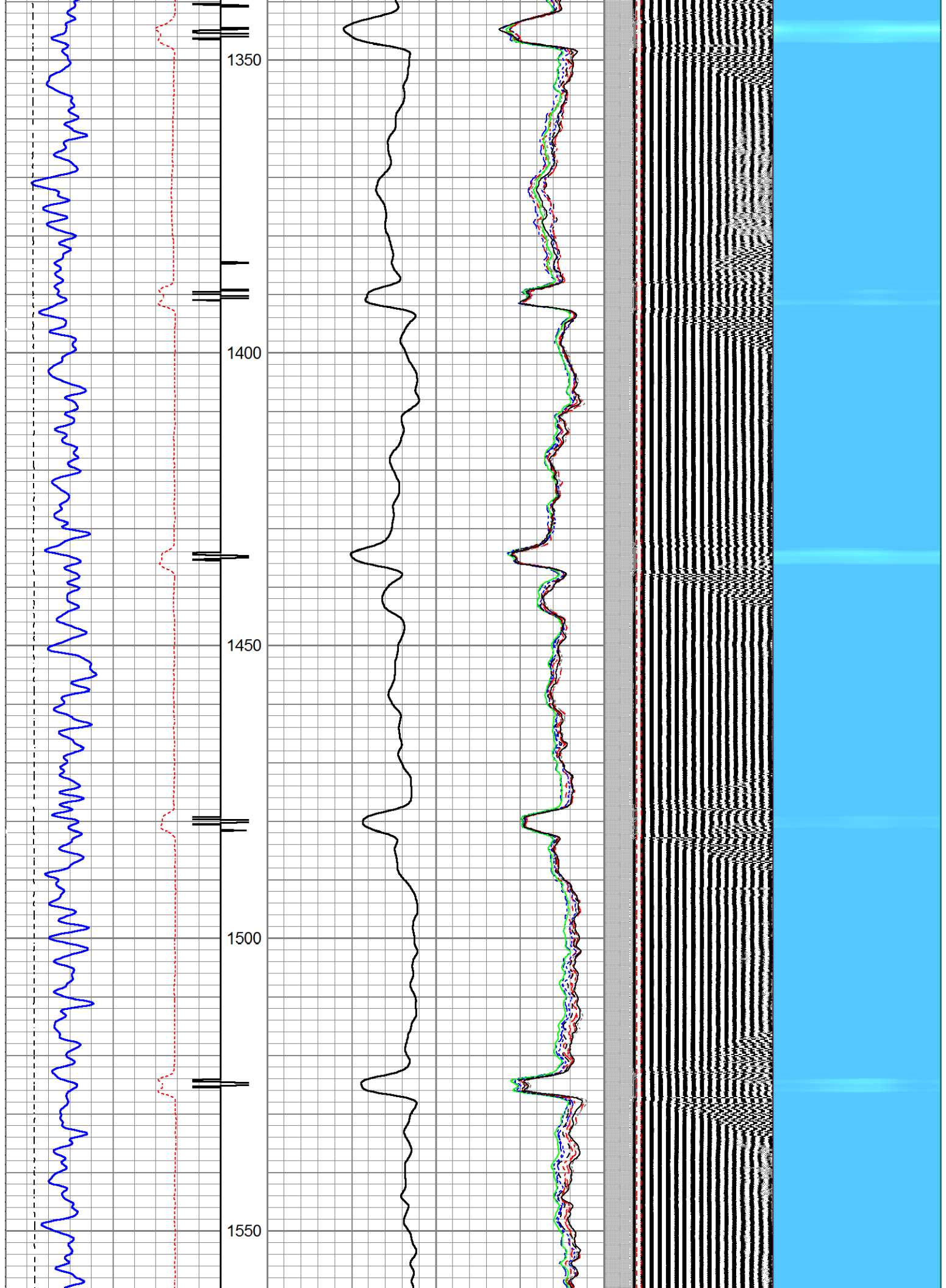


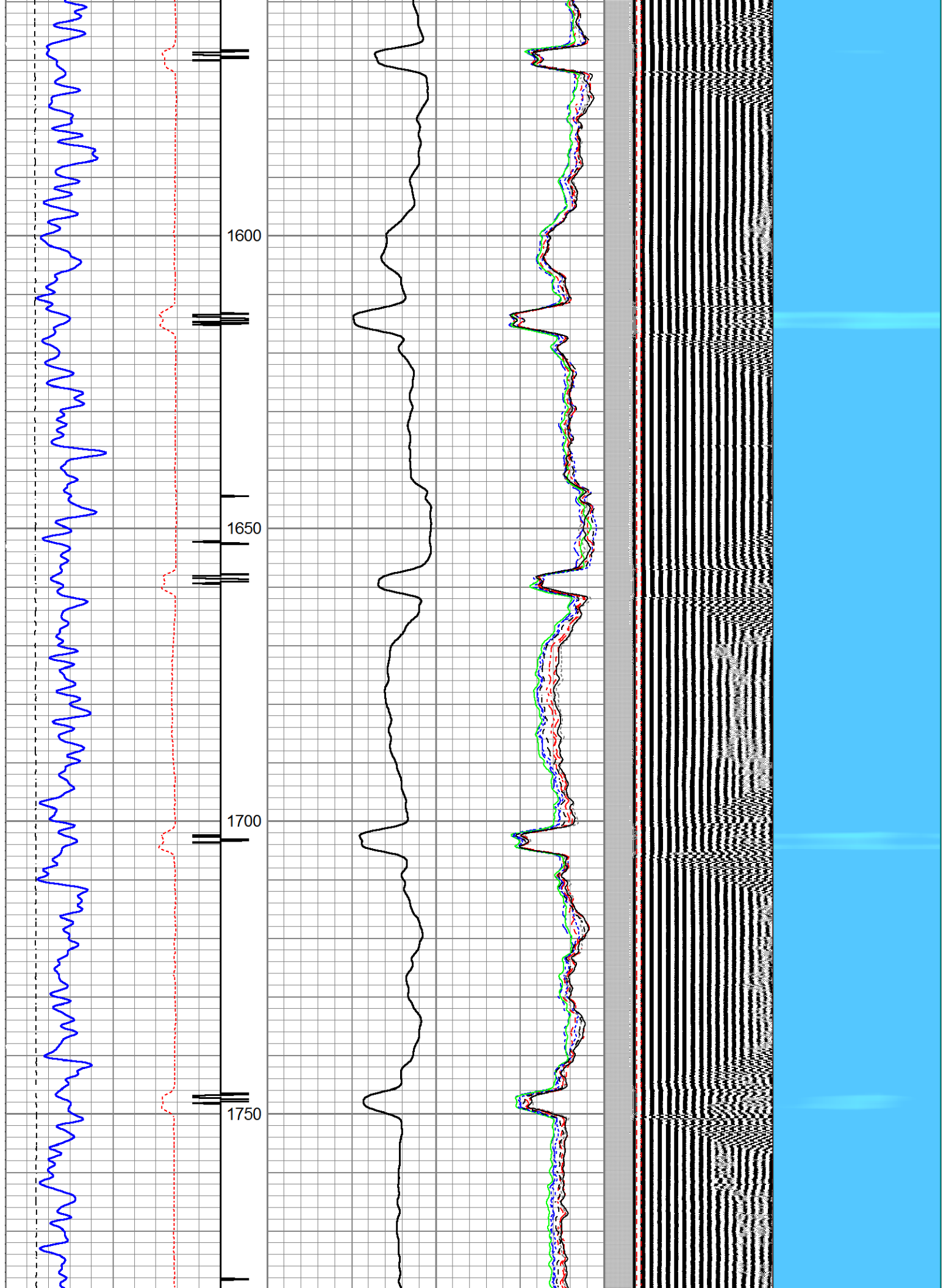


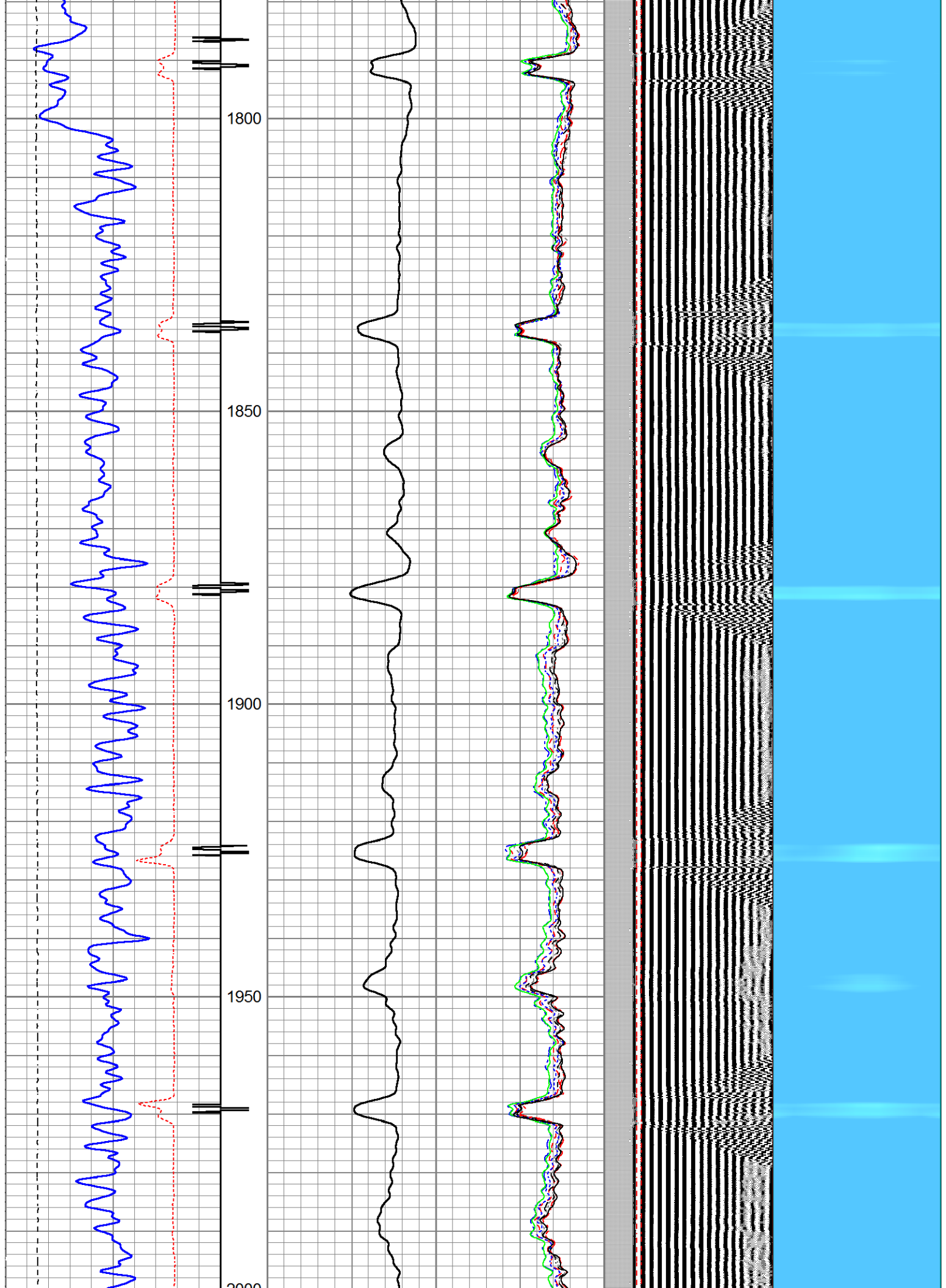


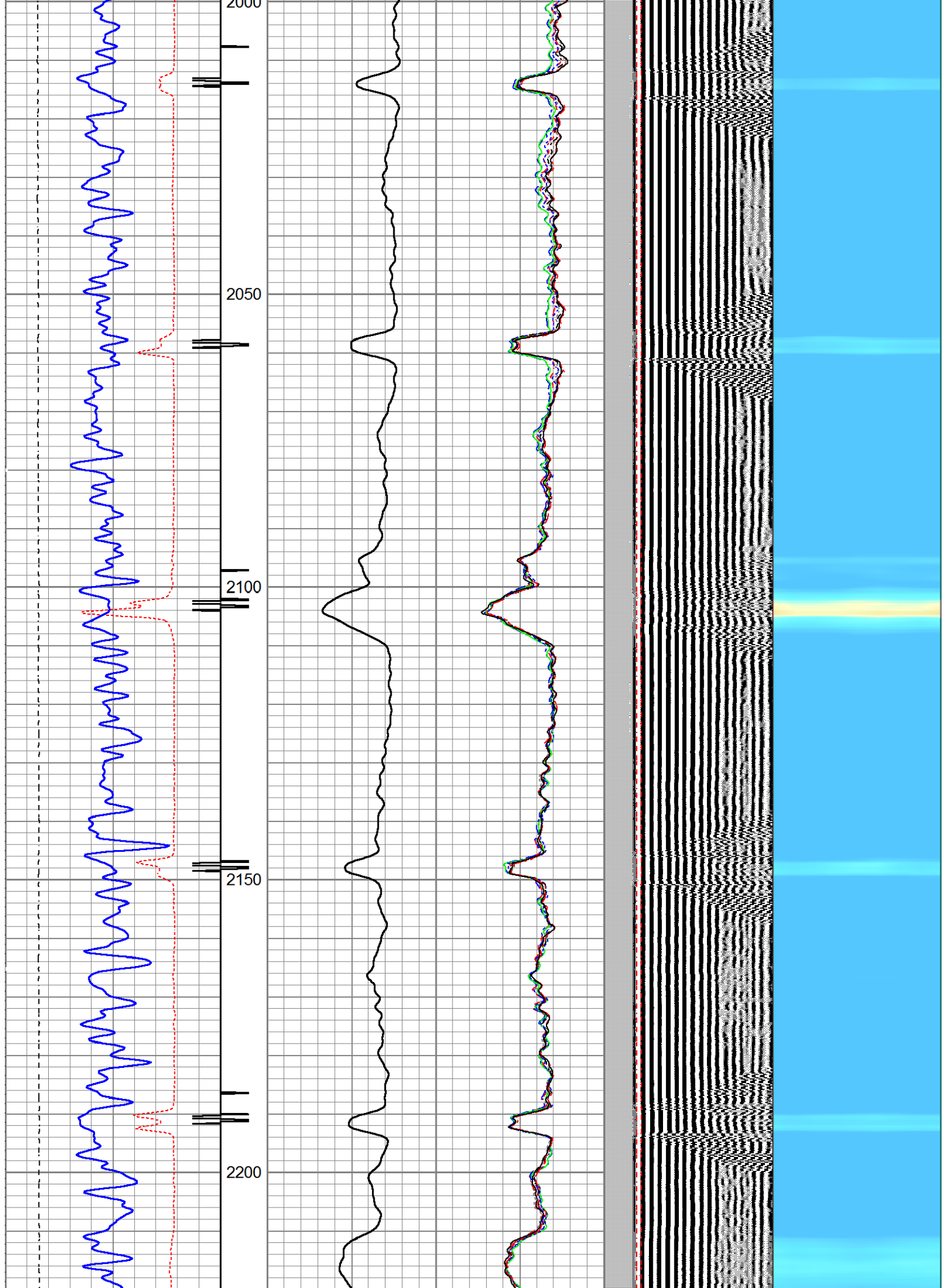


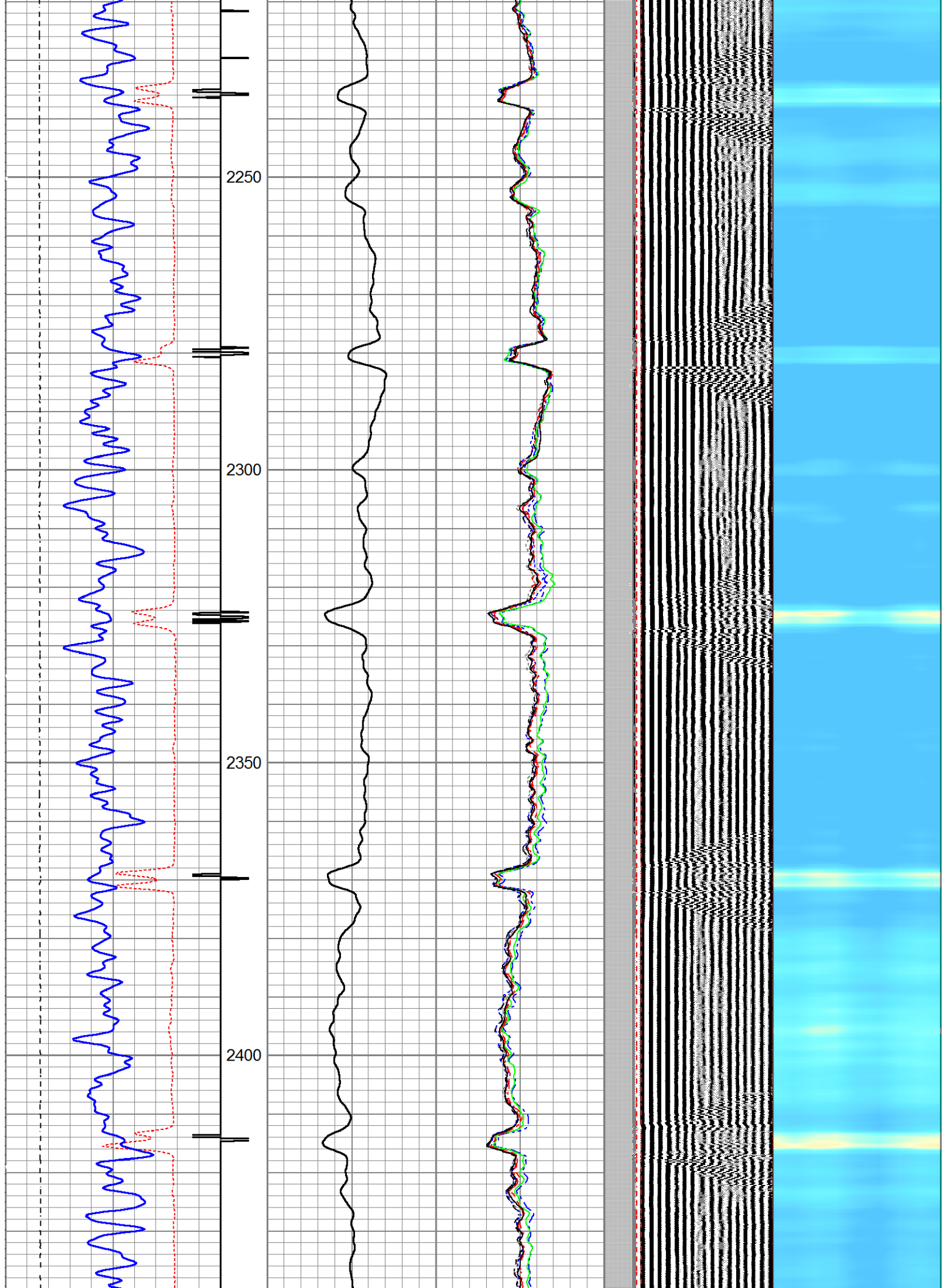


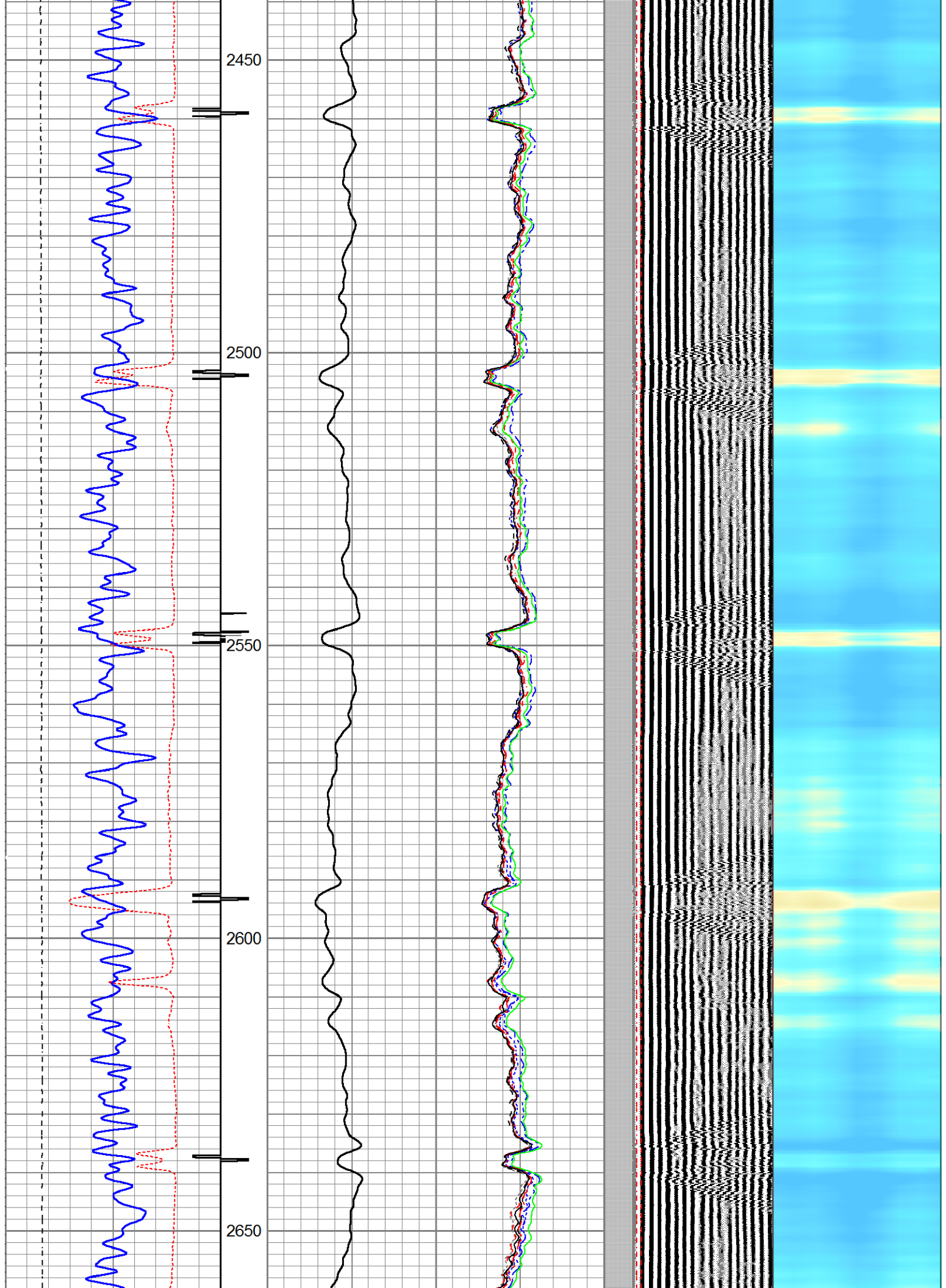


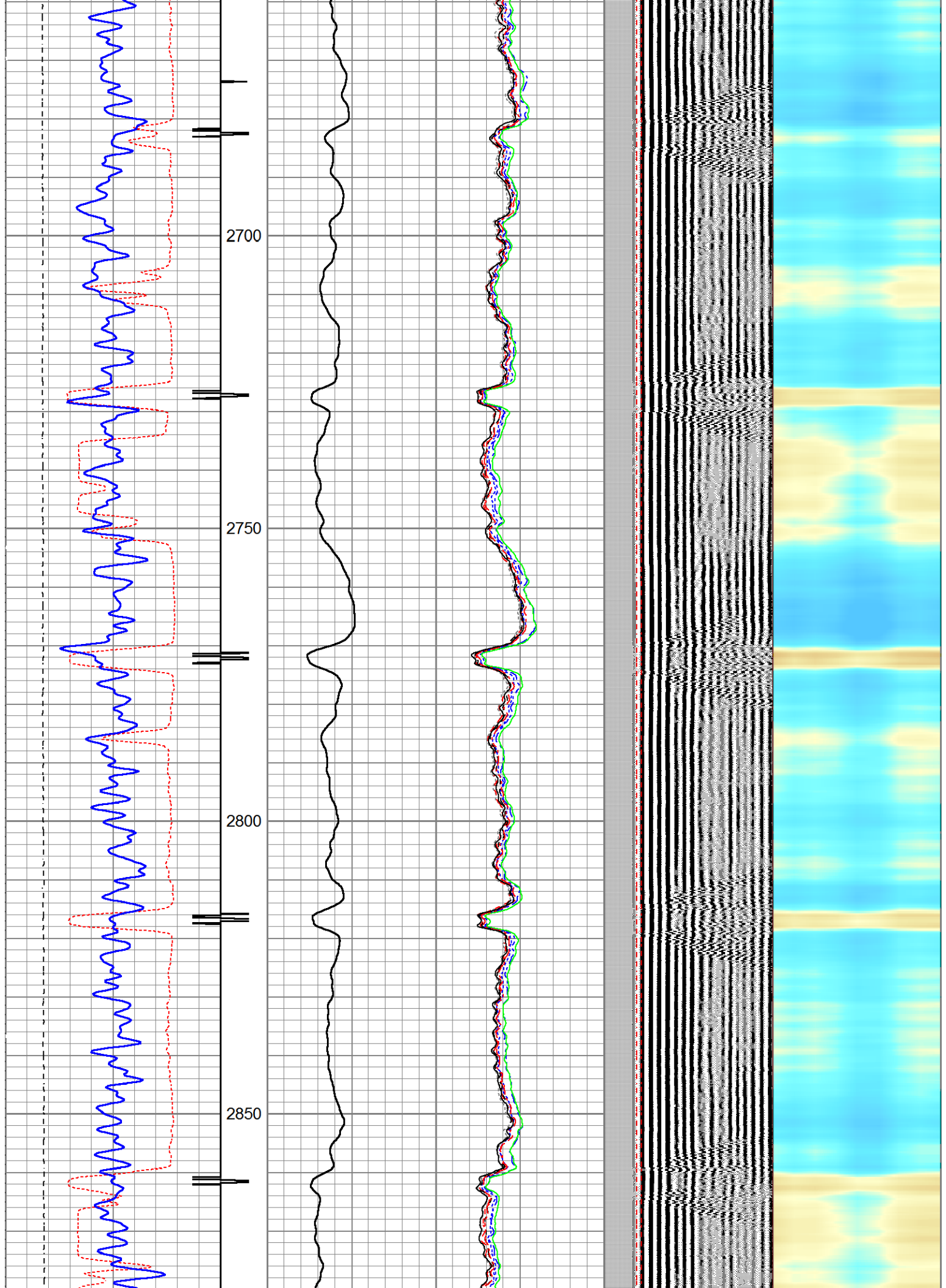


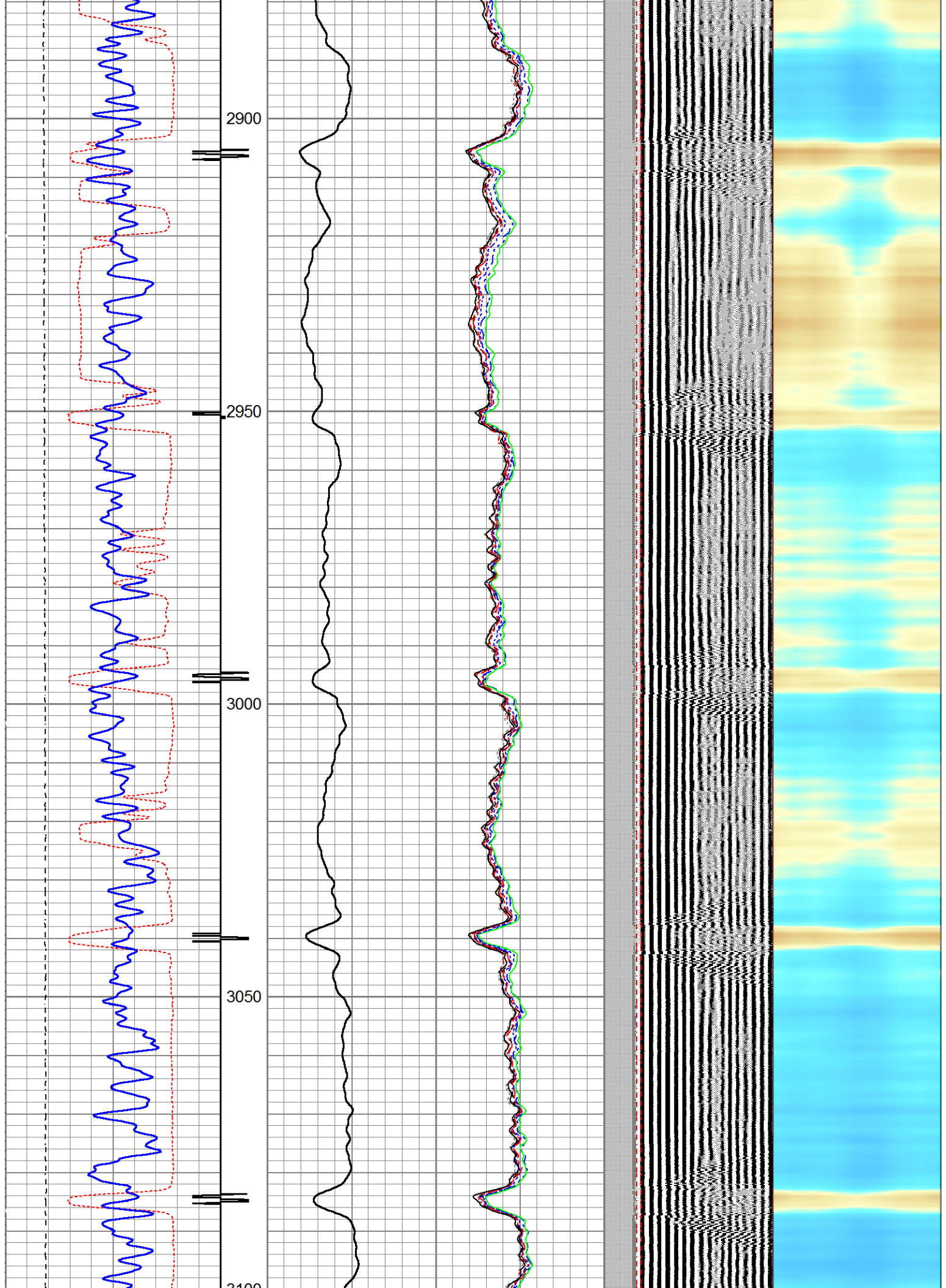


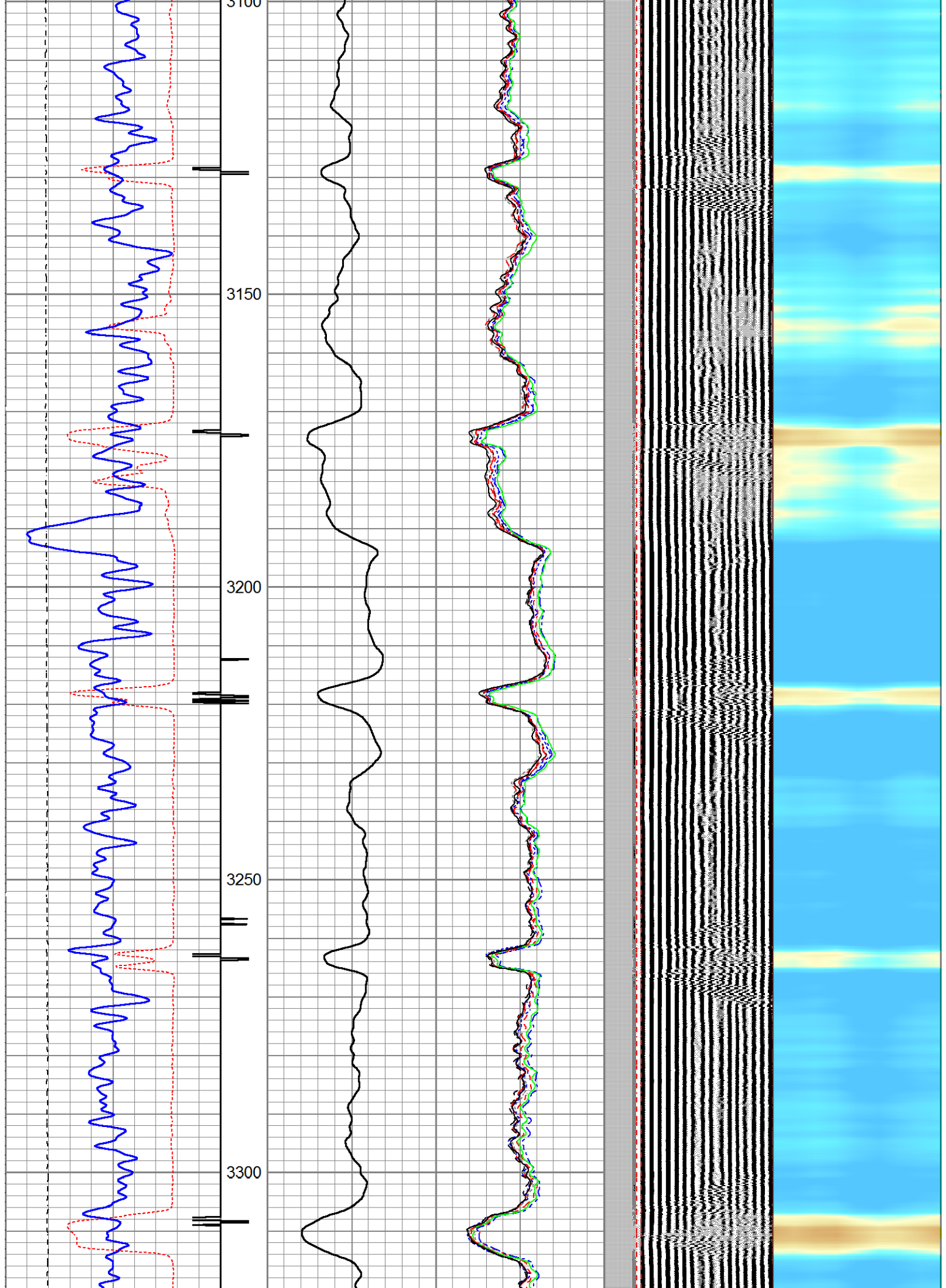


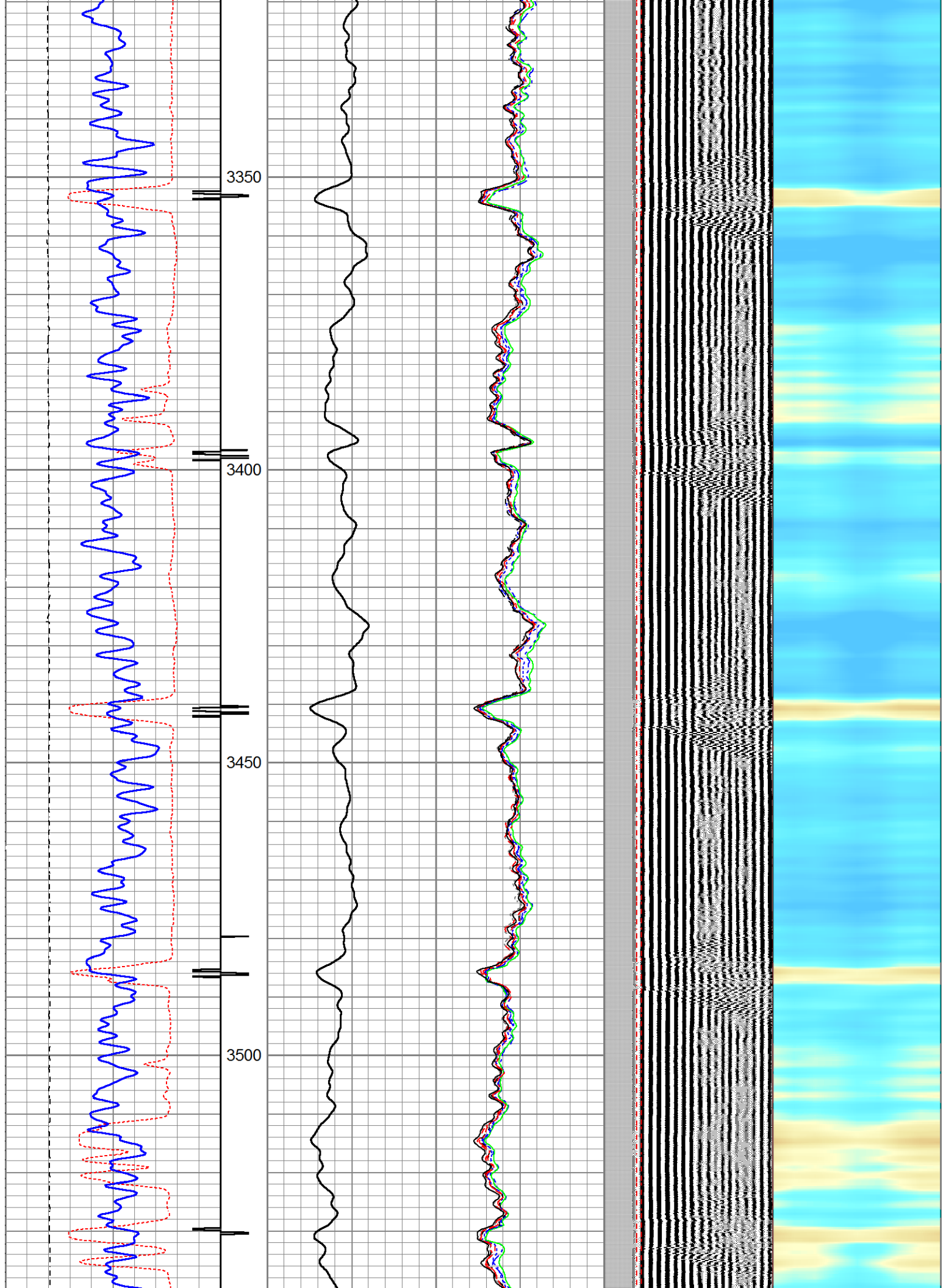


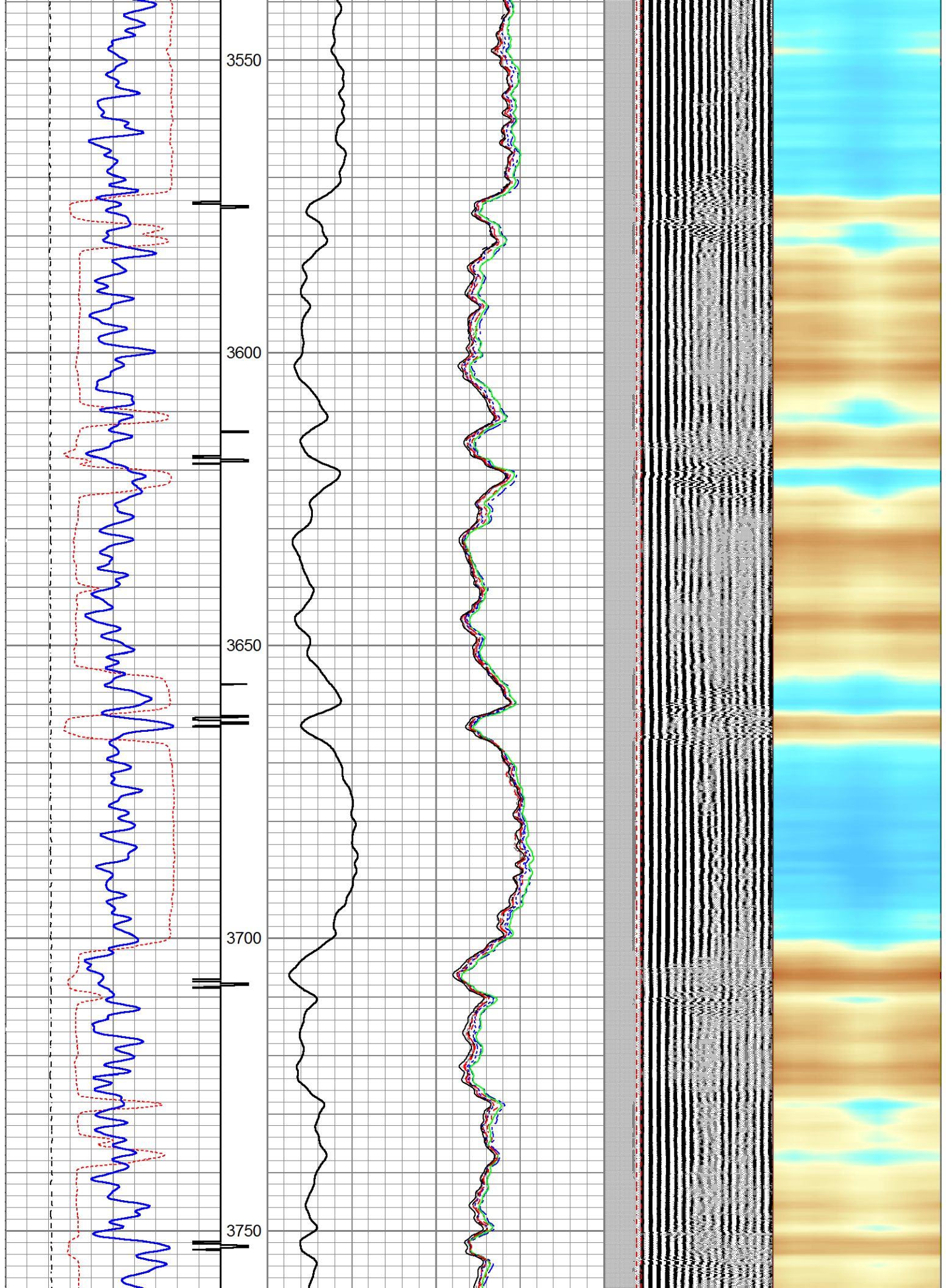


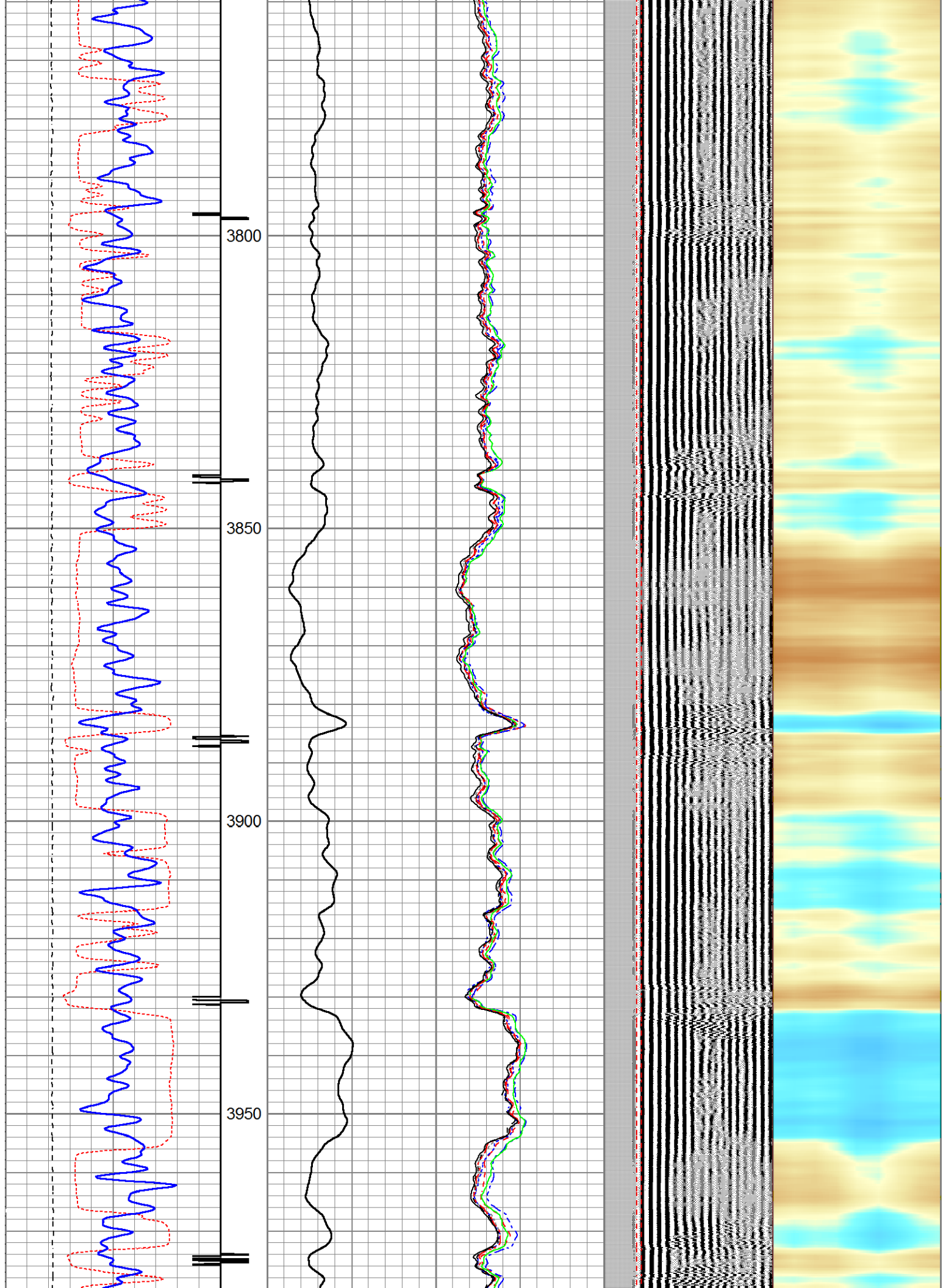


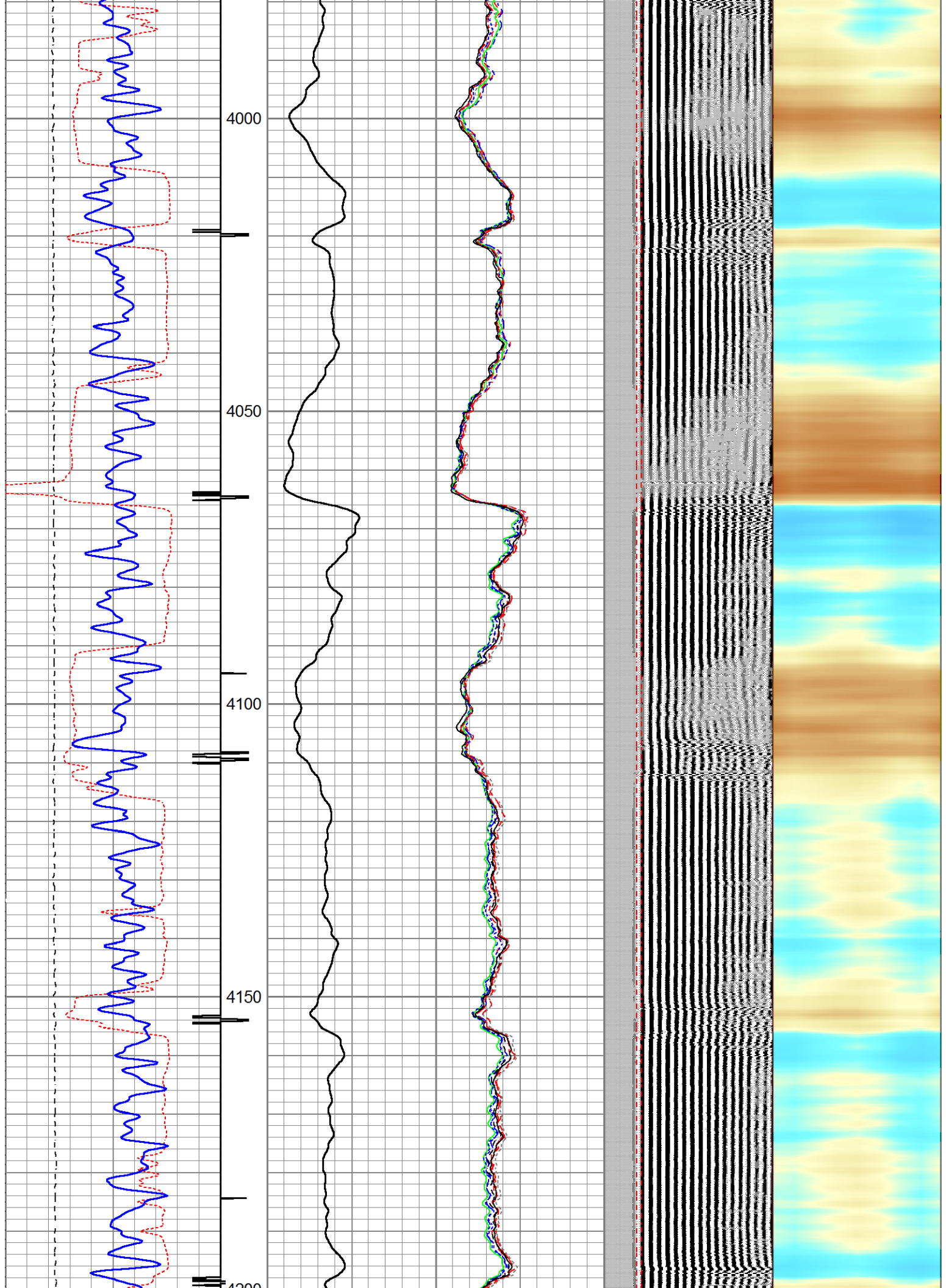


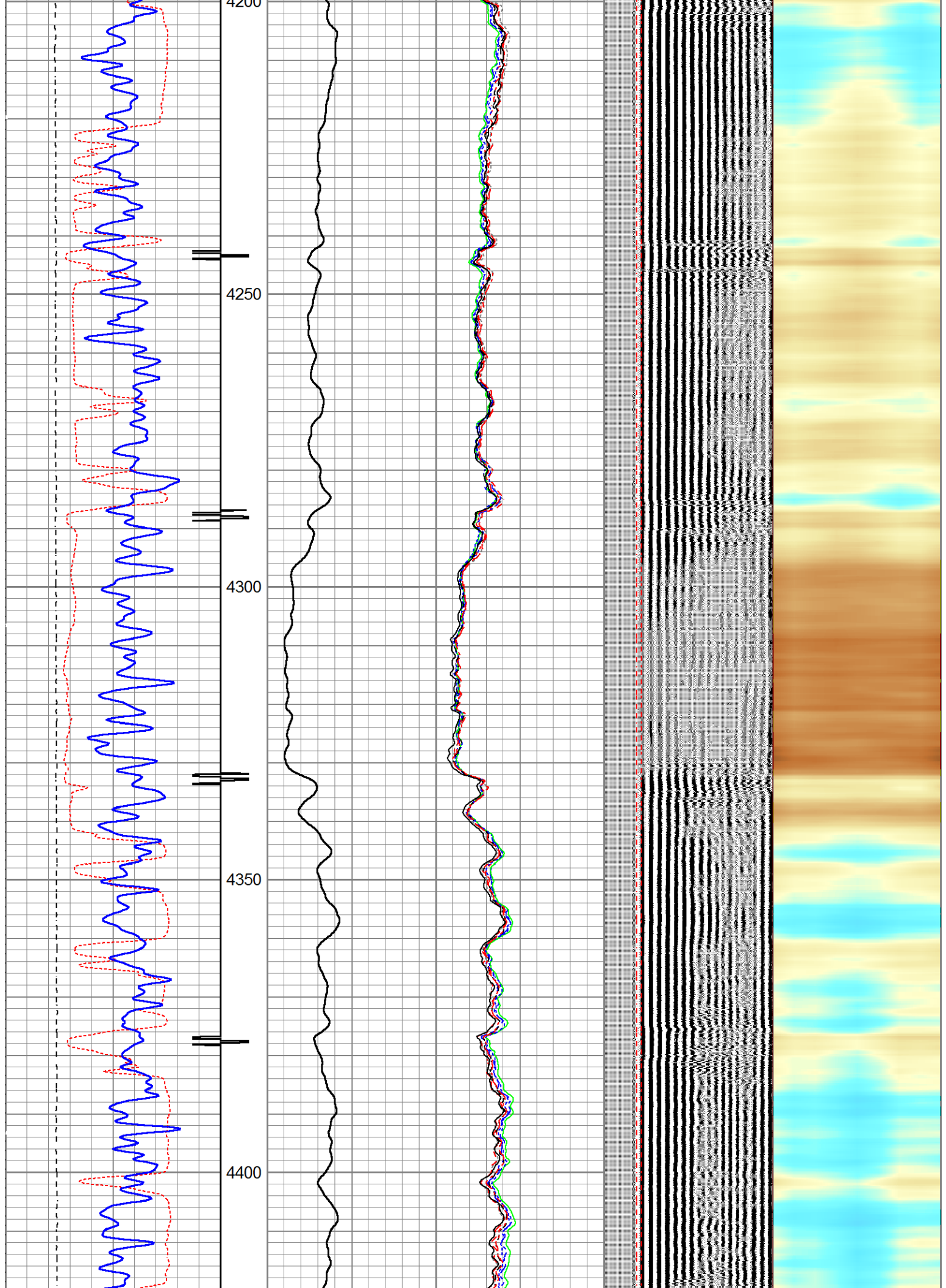


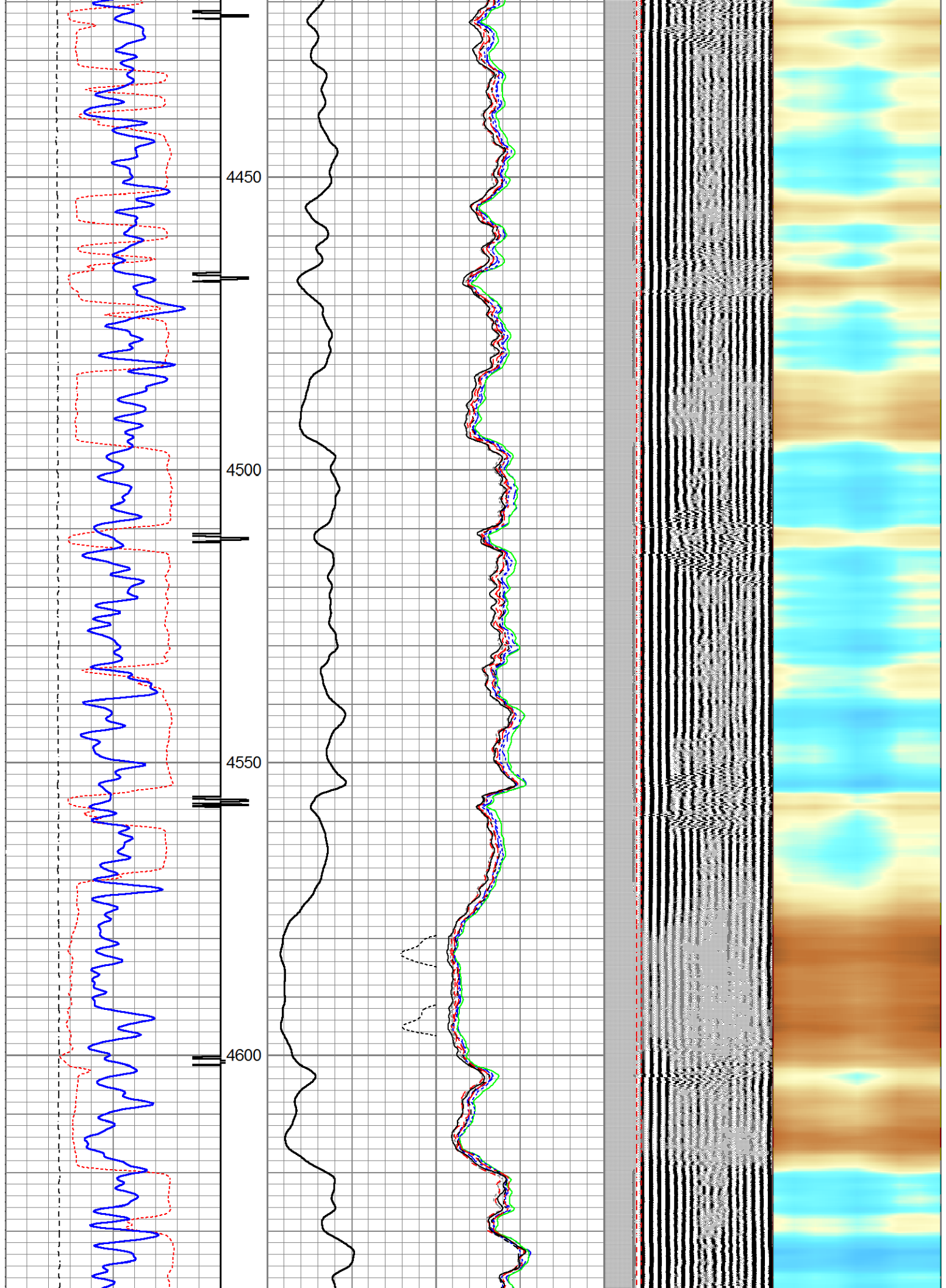


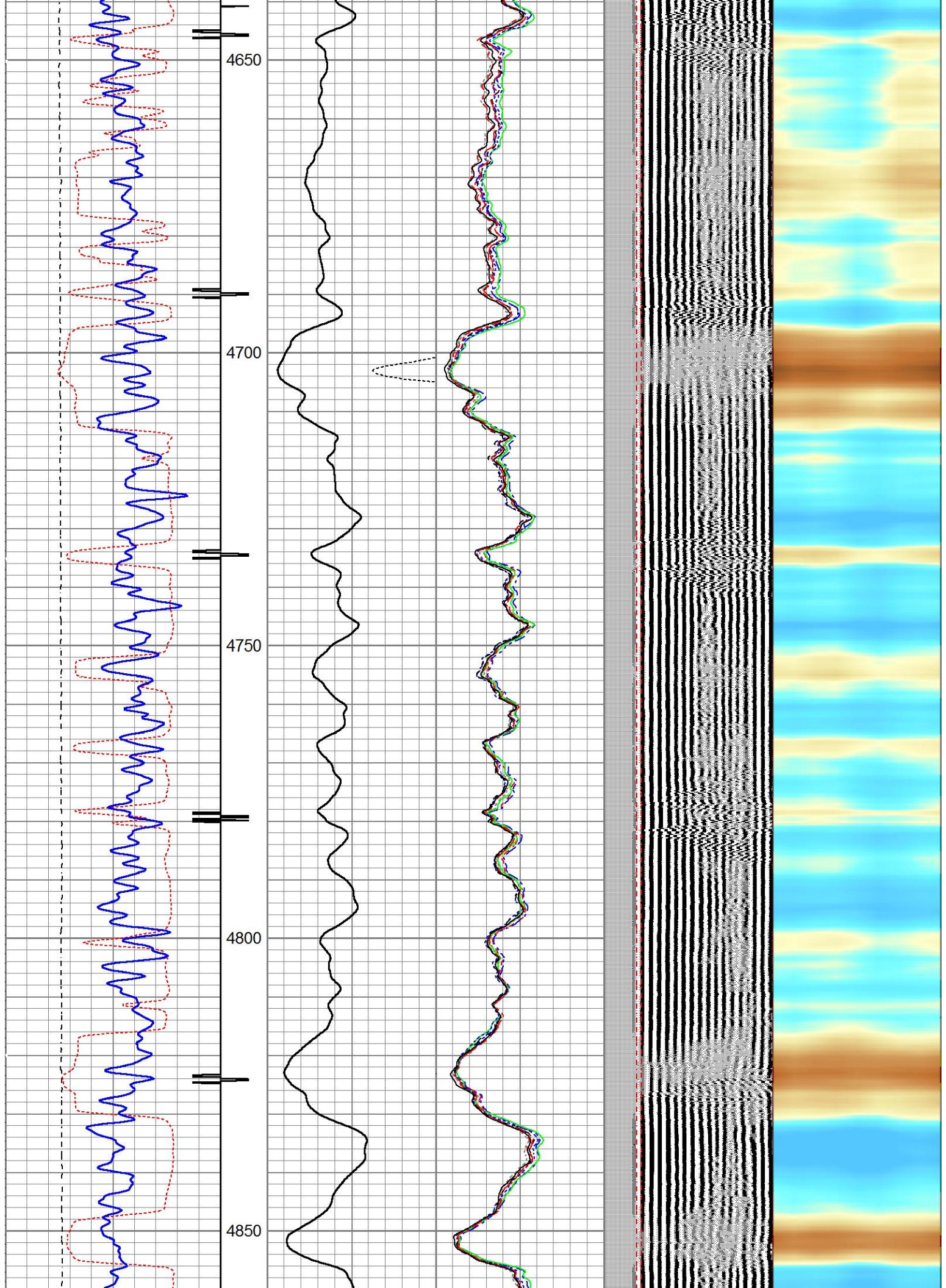


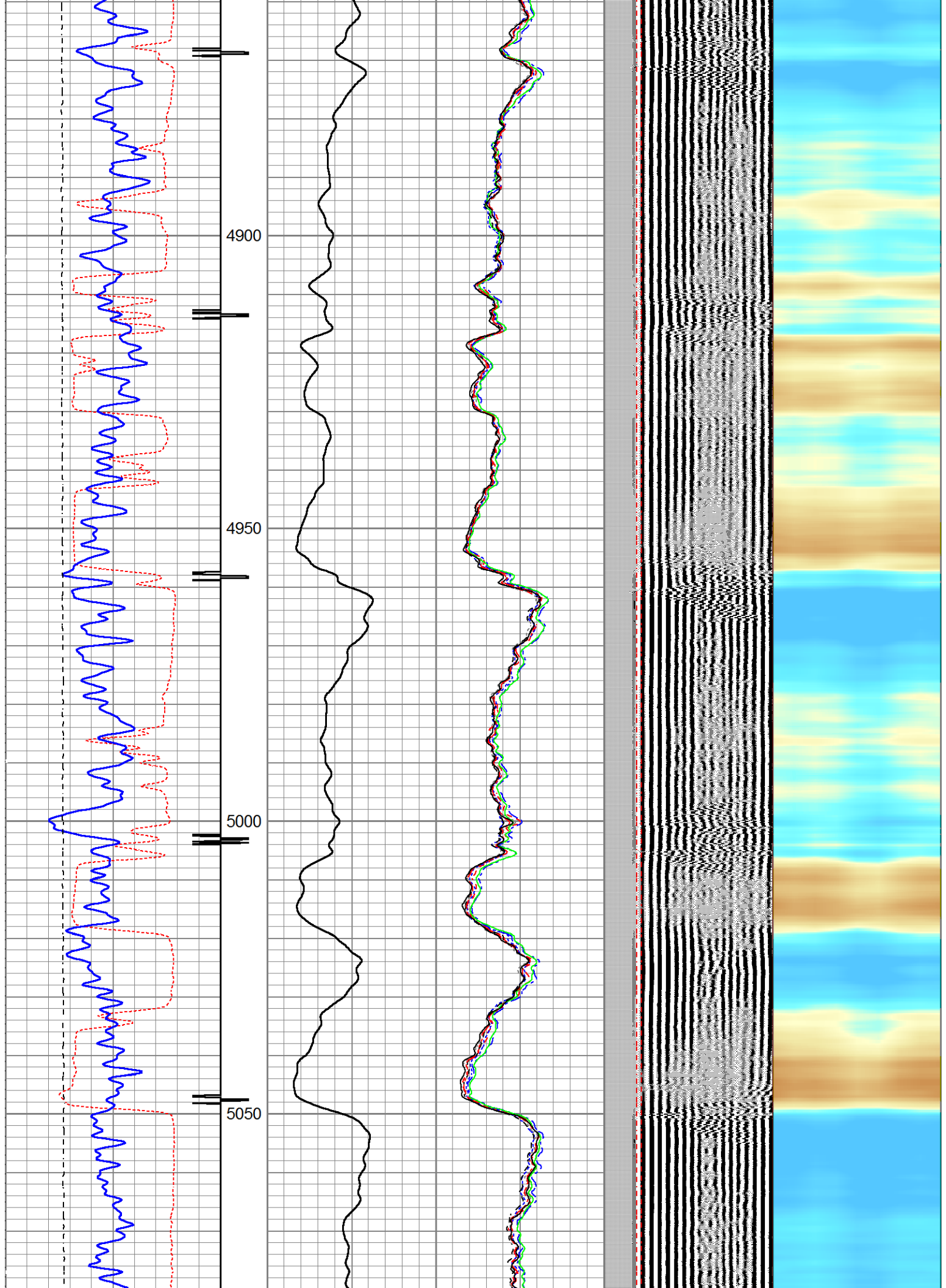


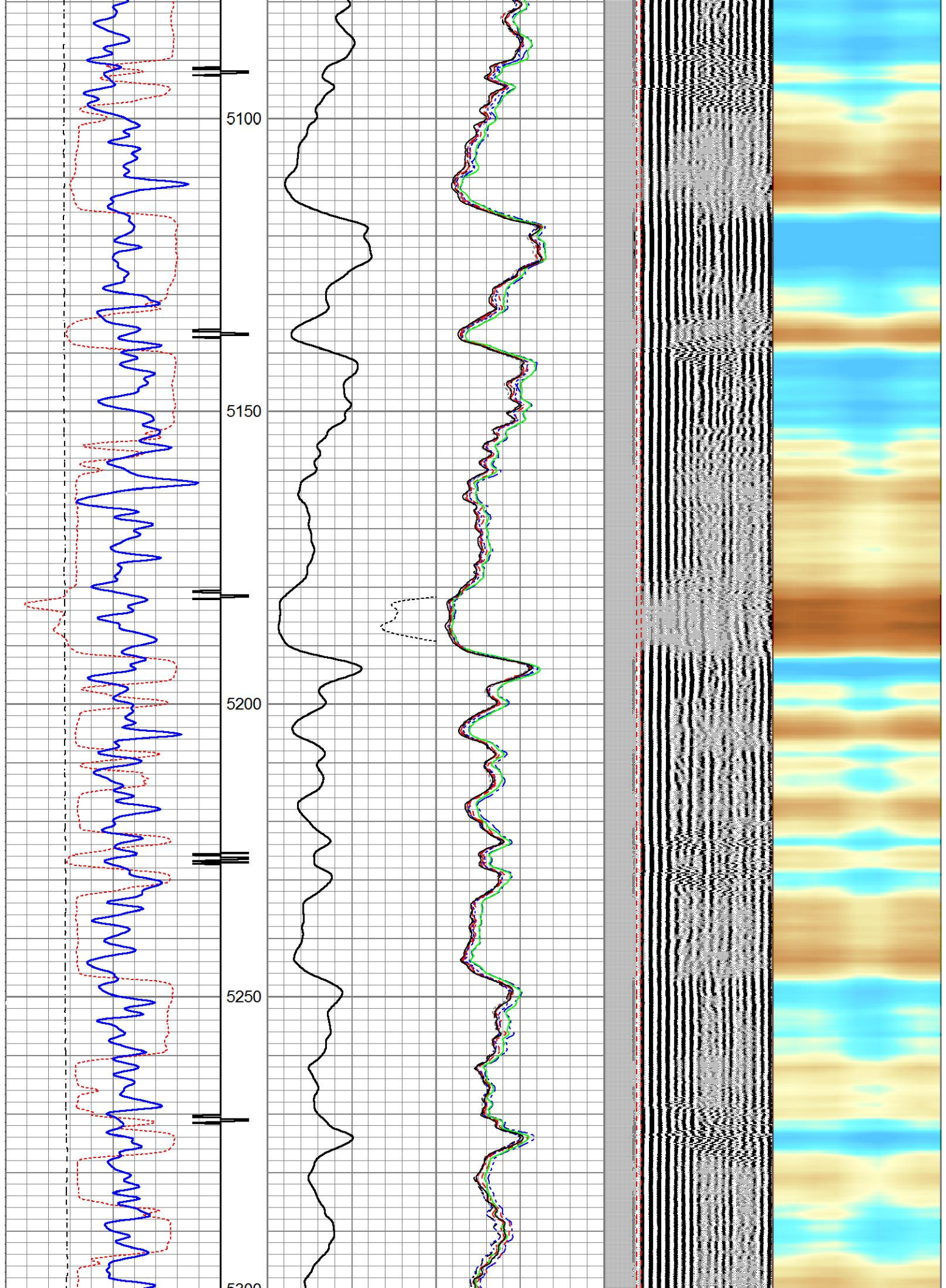


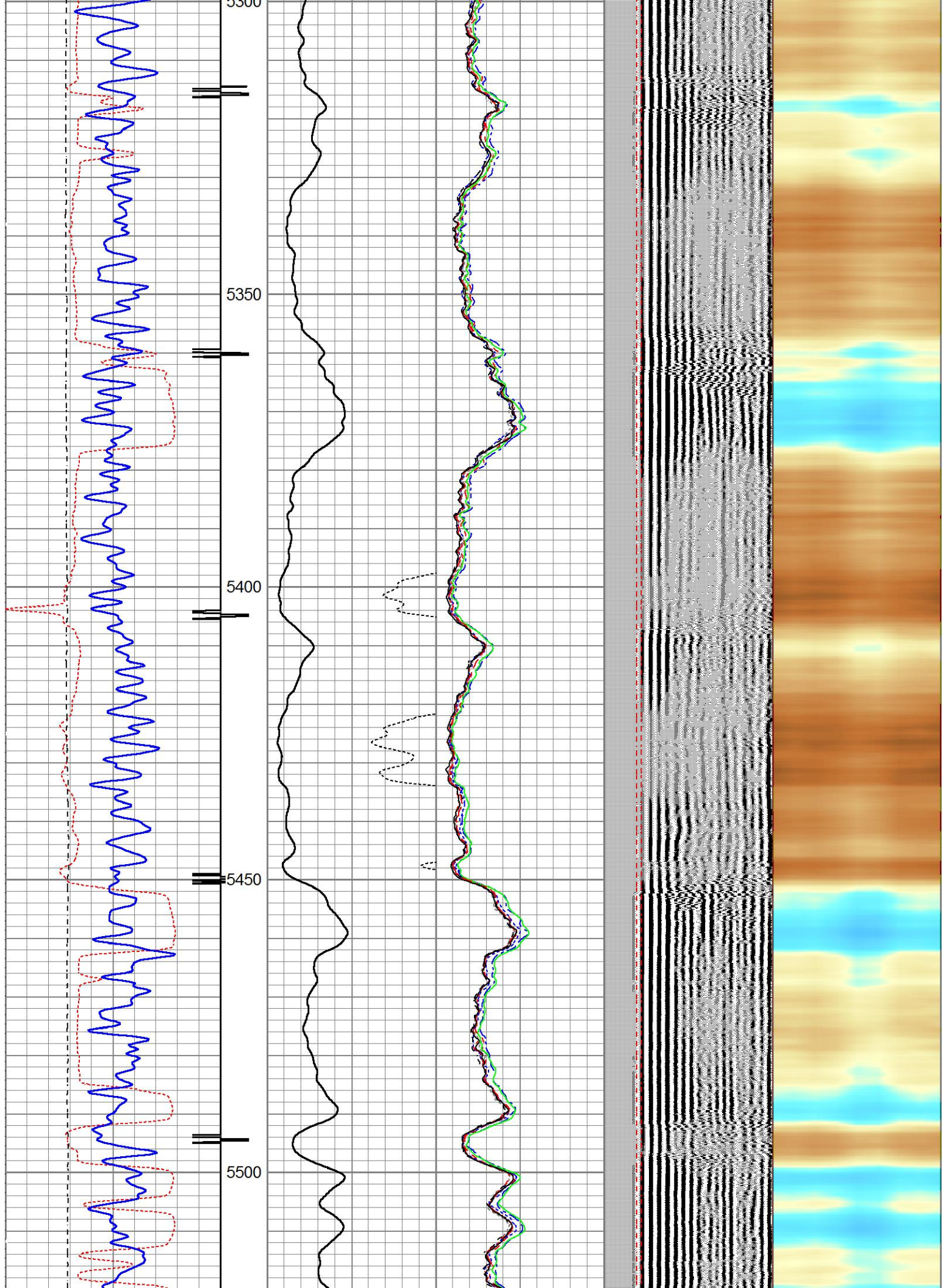


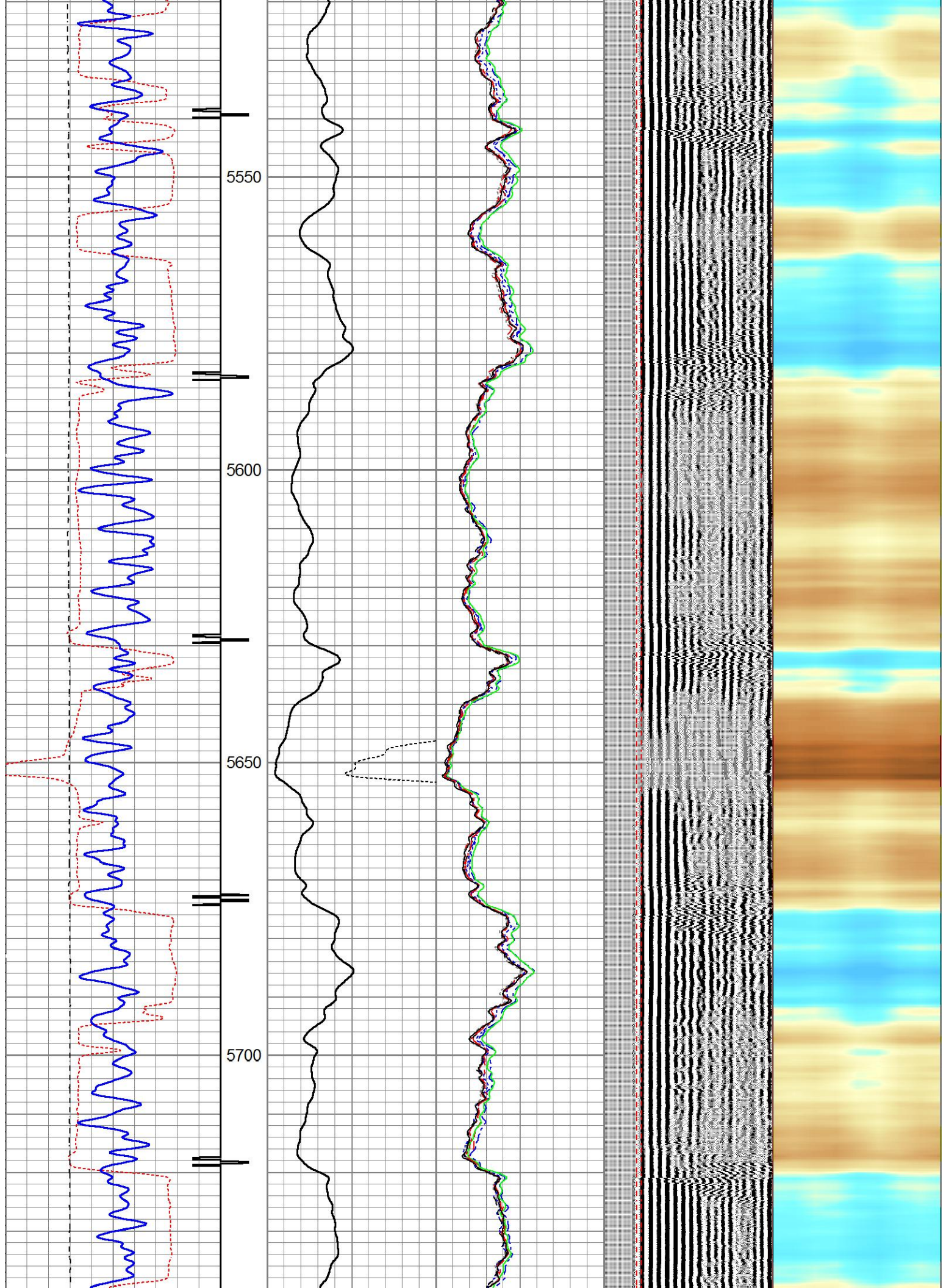


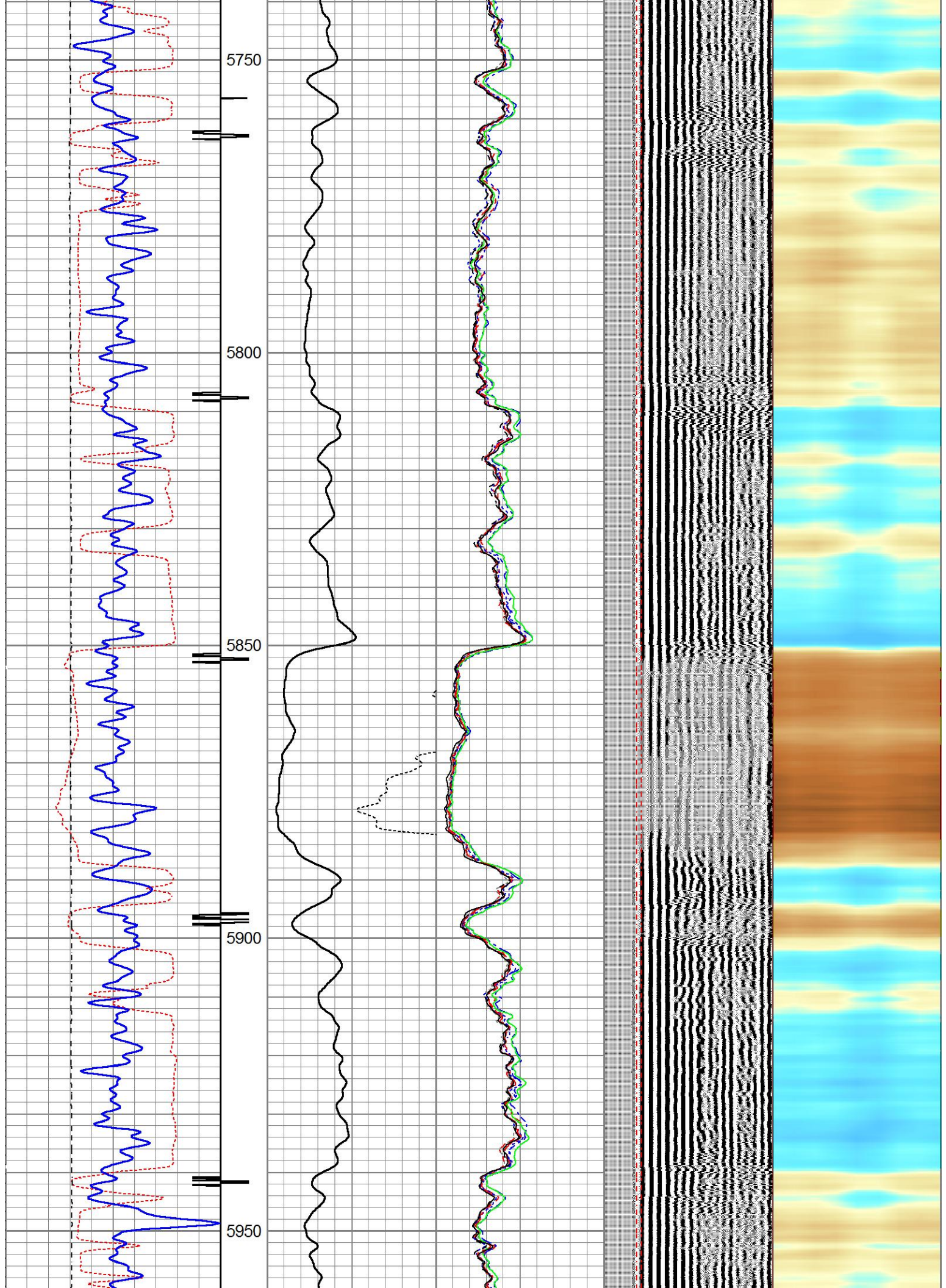


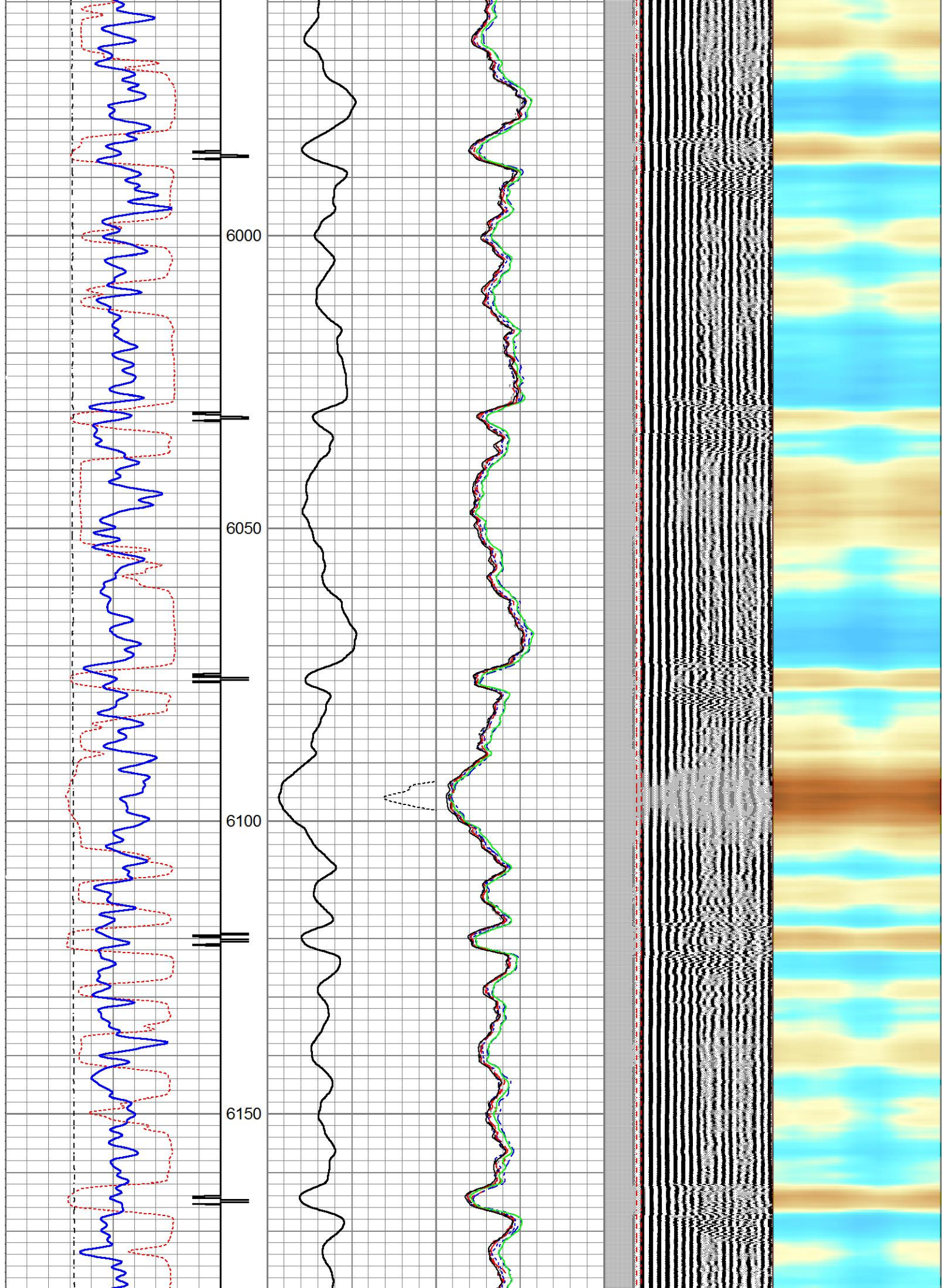


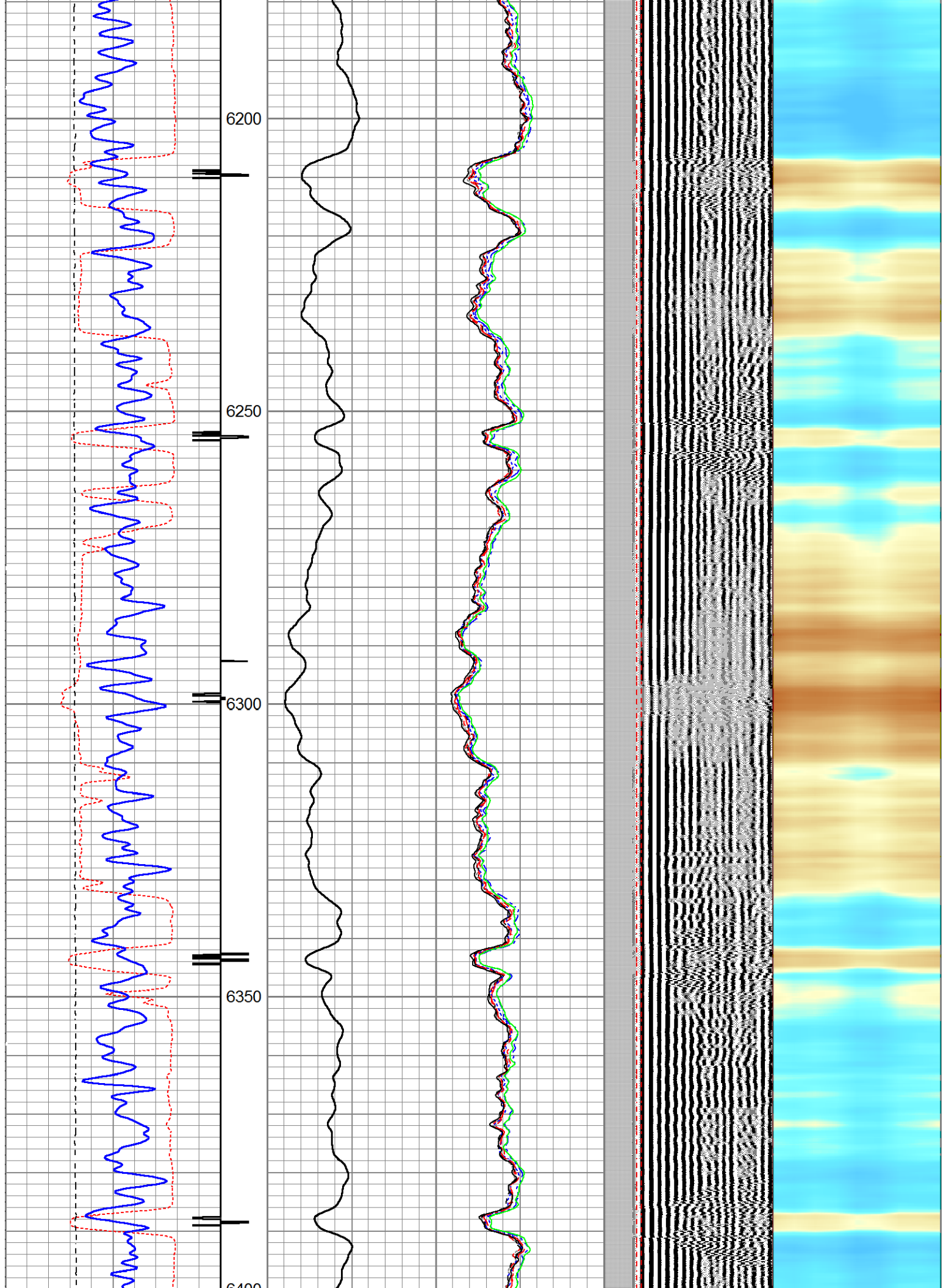


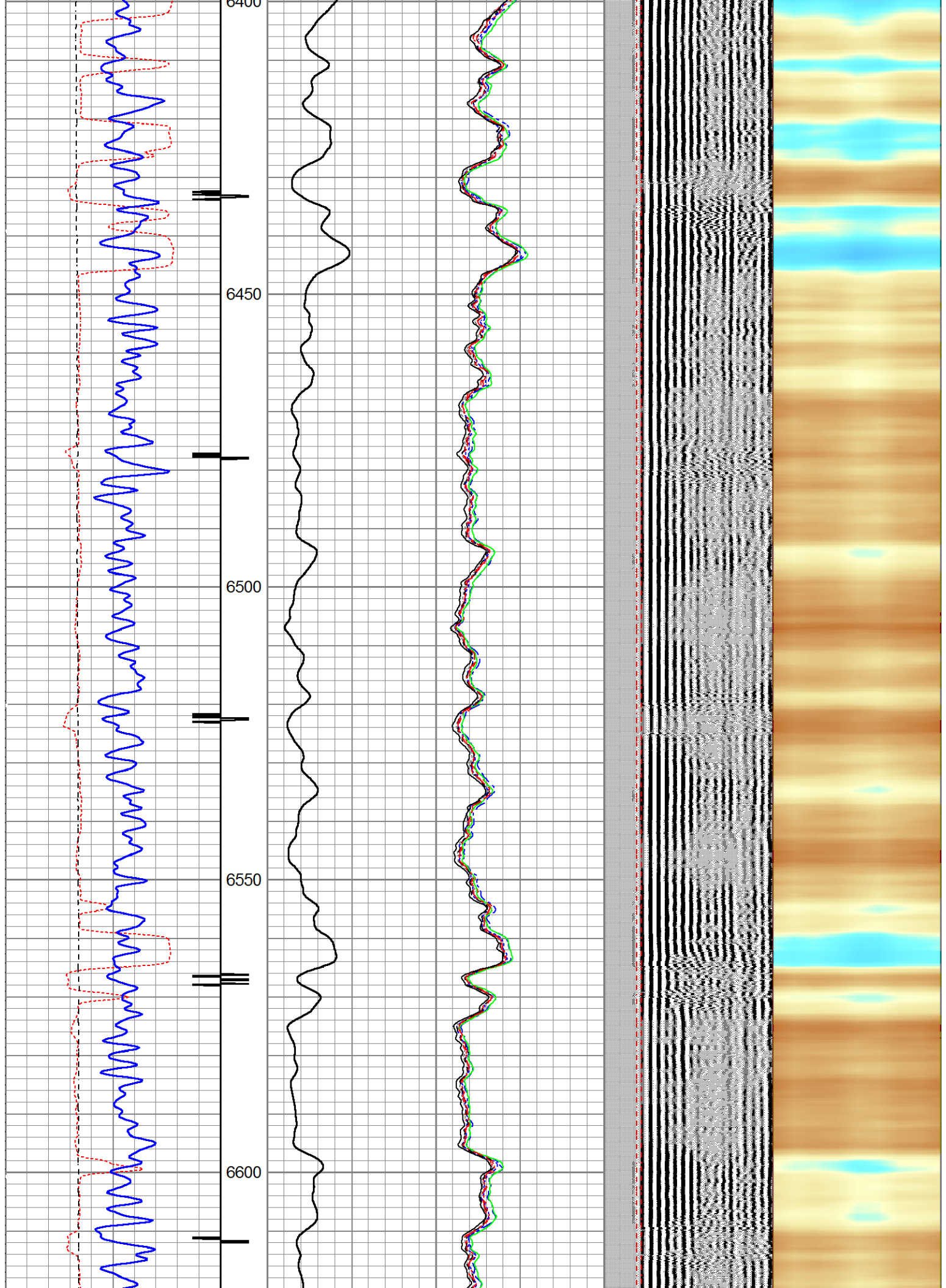


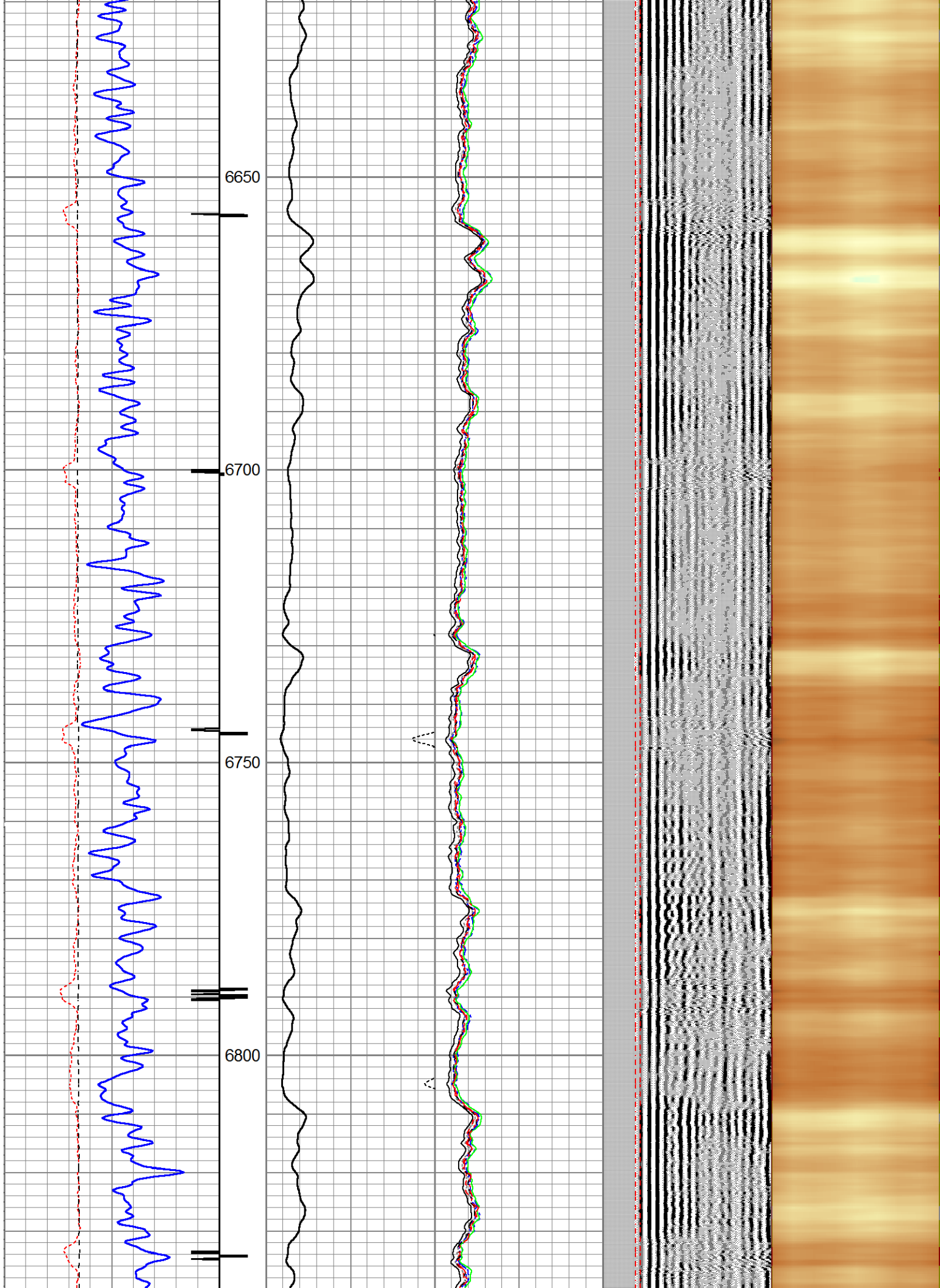


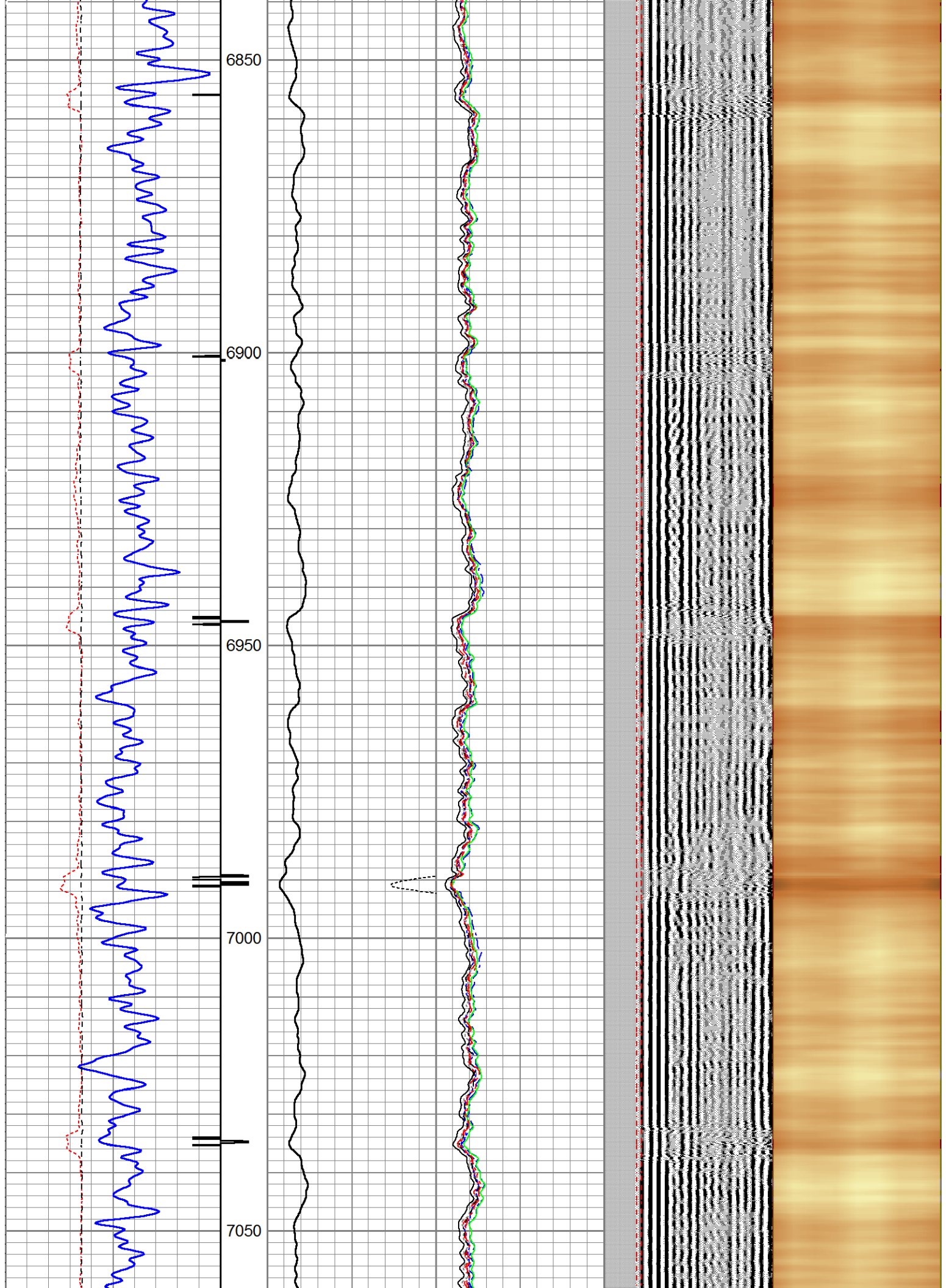


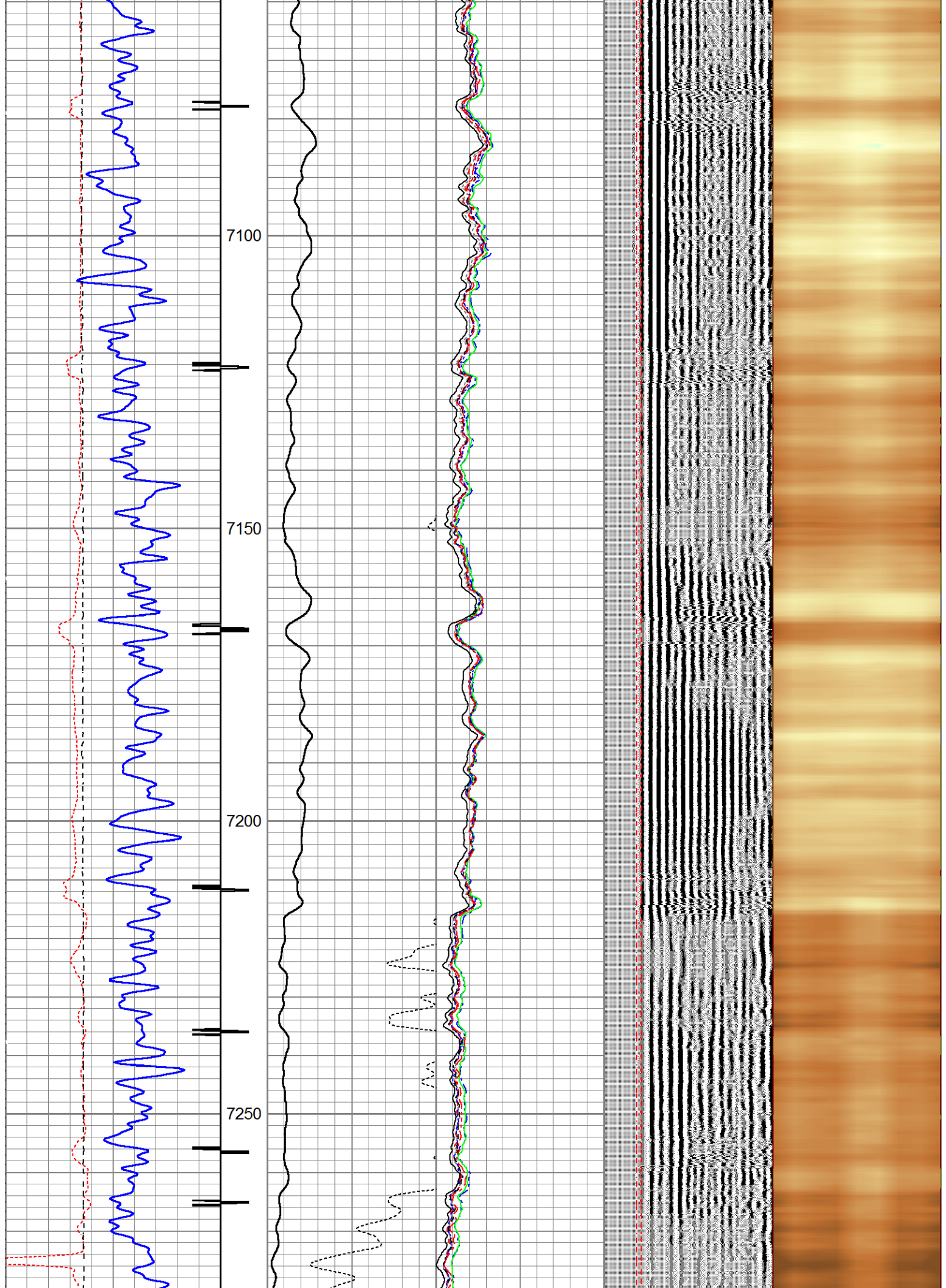


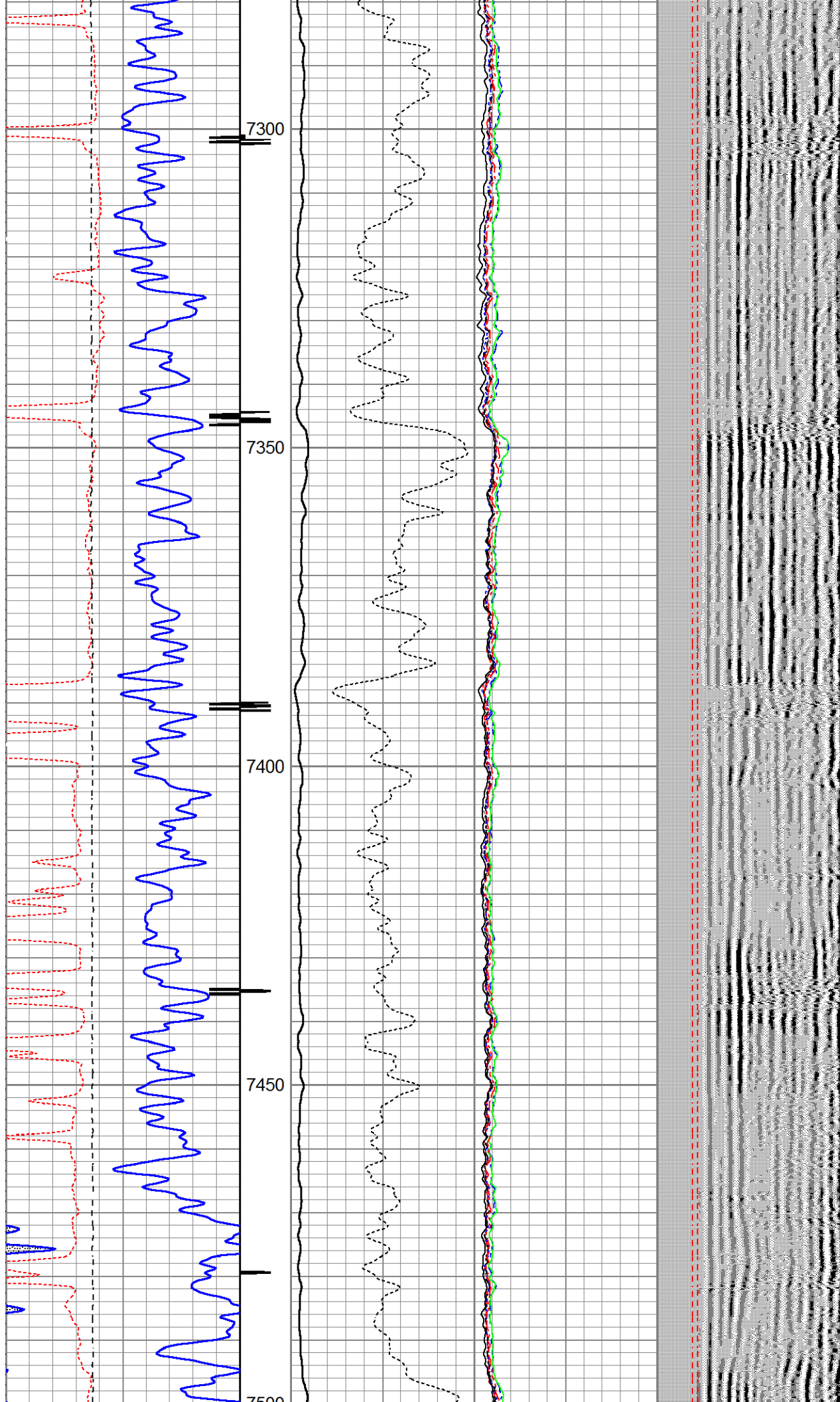


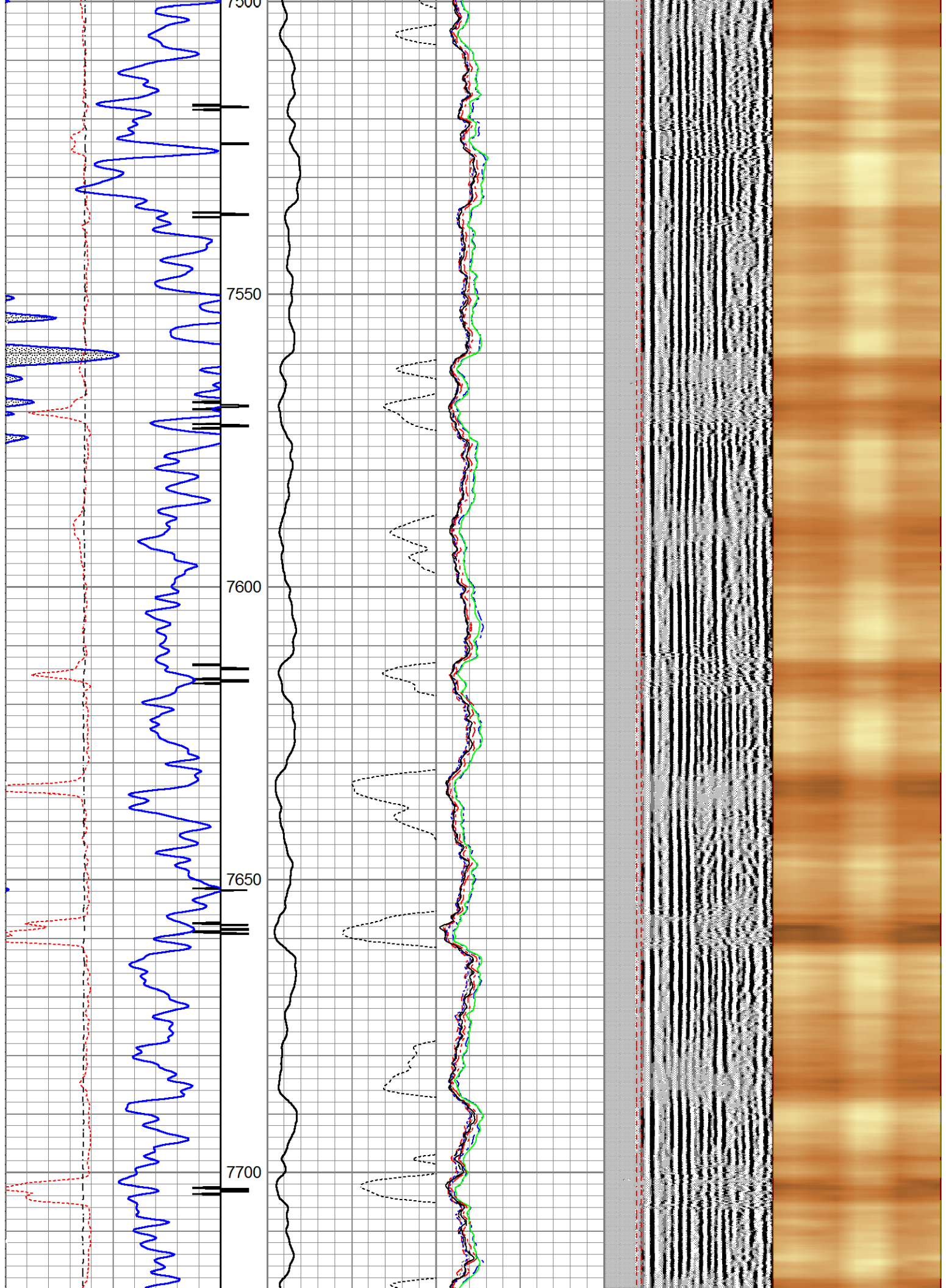


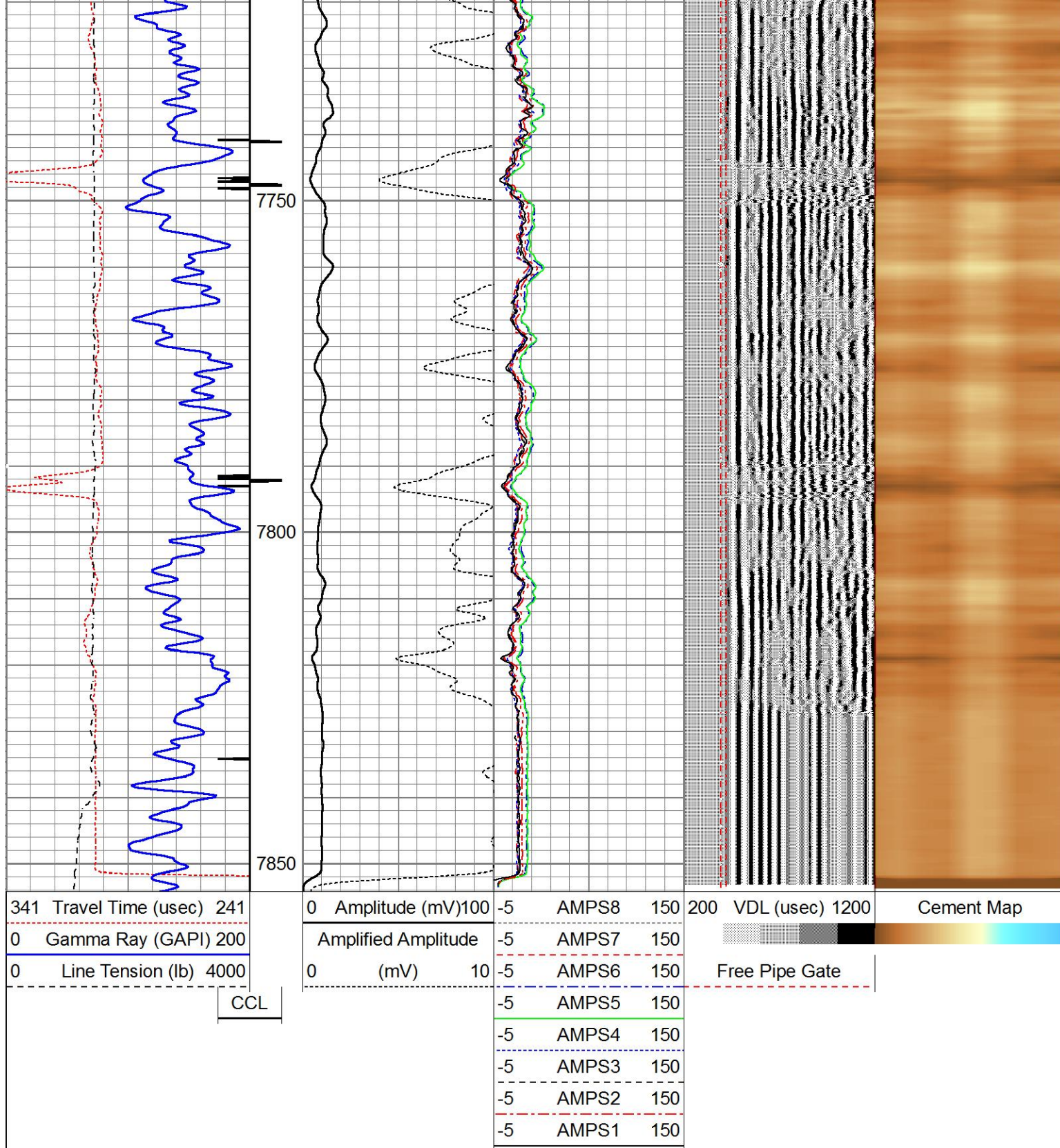












C&J ENERGY SERVICES

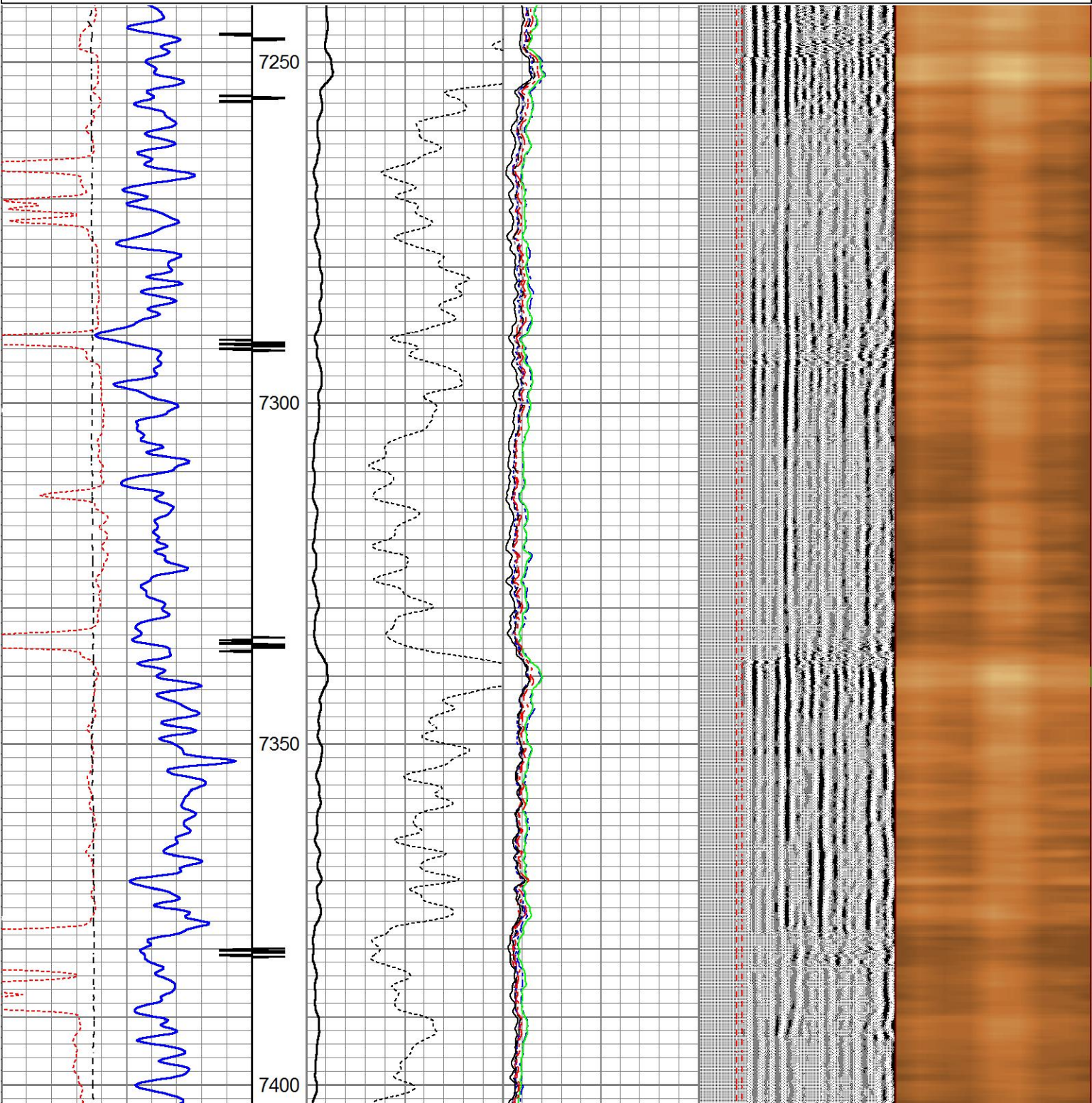
Main Pass (0) PSI

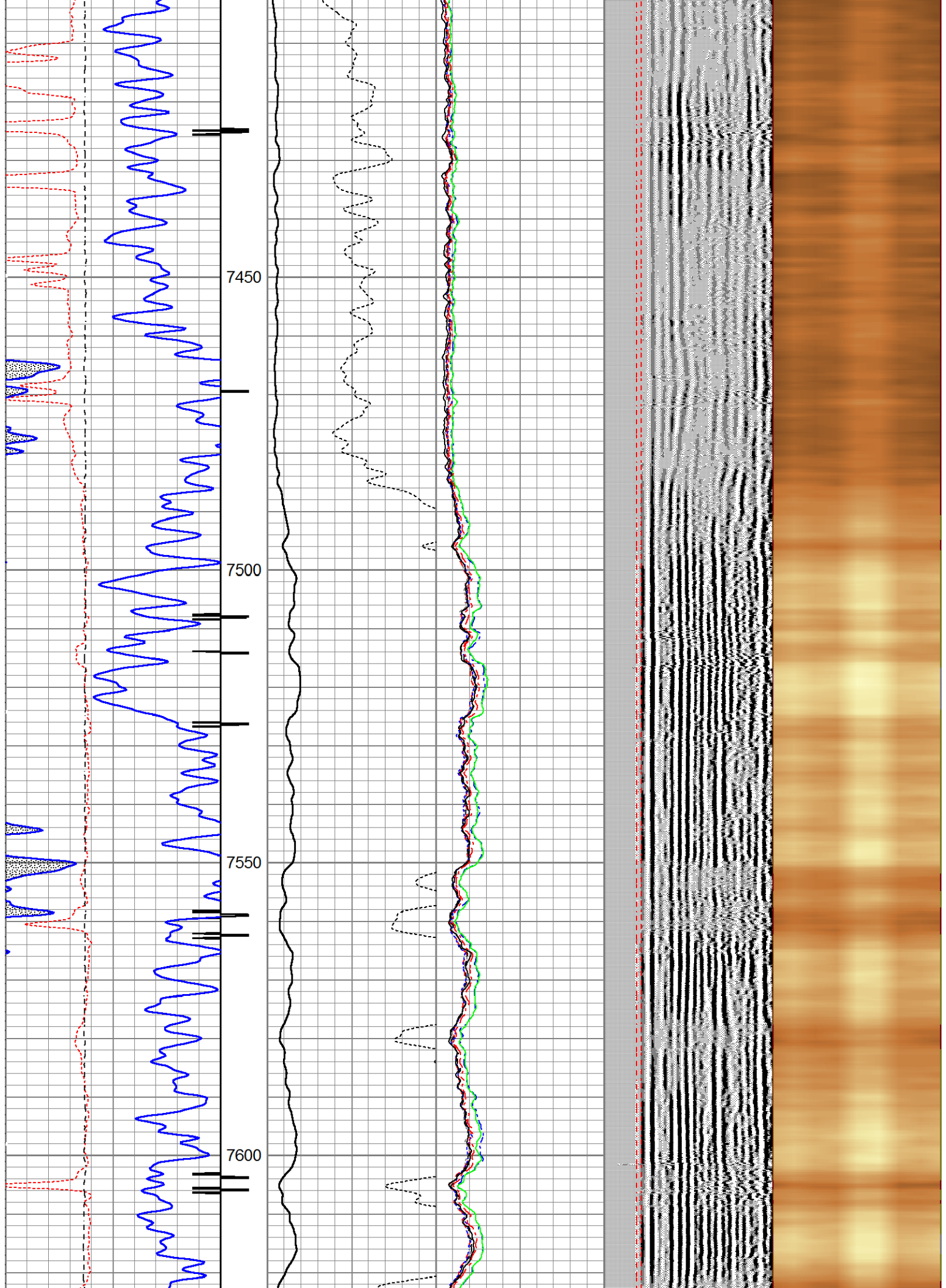
C&J ENERGY SERVICES

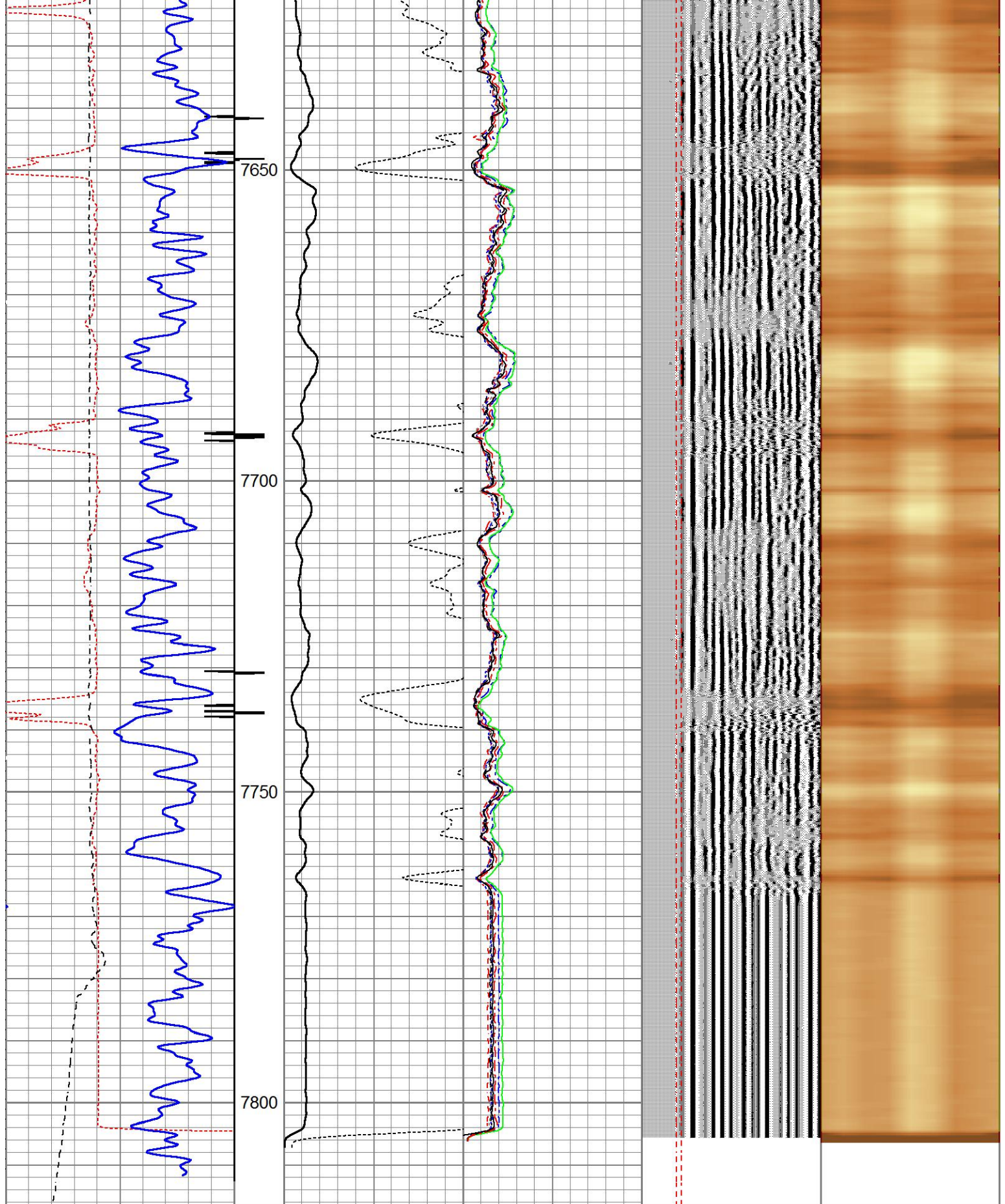
Repeat Pass (0) PSI

Database File	g:\petroshare corp shook pad\db\s\fs0214 ps shook 3-10-3nbh cbl.db
Dataset Pathname	Shook3-10-3NBH/run1/repeat1
Presentation Format	scbl5_5
Dataset Creation	Sun Mar 04 19:20:05 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		
						-5	AMPS5	150				
						-5	AMPS4	150				
						-5	AMPS3	150				
						-5	AMPS2	150				
						-5	AMPS1	150				







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		(mV)	10	-5	AMPS6	150		Free Pipe Gate		
						-5	AMPS5	150				
						-5	AMPS4	150				
						-5	AMPS3	150				

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



Repeat Pass (0) PSI

Log Variables

DatabaseG:\Petroshare Corp Shook Pad\DB's\fs0214 ps shook 3-10-3nbh cbl.db
Dataset field/Shook3-10-3NBH/run1/main1/_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 G:\Petroshare Corp Shook Pad\DB's\fs0214 ps shook 3-10-3nbh cbl.db
Dataset Pathname Shook3-10-3NBH/run1/main1
Dataset Creation Sun Mar 04 19:33:50 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:	2125.790	ft

Master Calibration, performed Sun Mar 04 18:53:11 2018:

Raw (v)		Calibrated (mv)		Results	
Zero	Cal	Zero	Cal	Gain	Offset
0.002	0.275	1.000	71.024	100.562	0.422

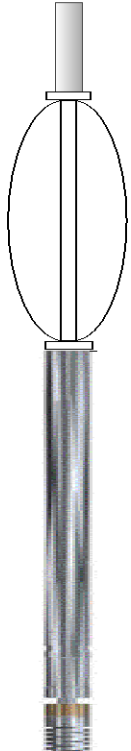
S	0.003	0.375	1.000	71.921	190.562	0.423
CAL	0.003	0.899				
5'	0.003	0.308	1.000	71.921	231.995	0.357
SUM						
S1	0.037	0.380	0.000	100.000	291.572	-10.653
S2	0.004	0.366	0.000	100.000	275.816	-0.990
S3	0.006	0.375	0.000	100.000	270.399	-1.518
S4	0.006	0.390	0.000	100.000	260.278	-1.608
S5	0.004	0.413	0.000	100.000	244.355	-0.886
S6	0.004	0.415	0.000	100.000	243.454	-1.046
S7	0.004	0.389	0.000	100.000	259.668	-1.100
S8	0.006	0.372	0.000	100.000	273.085	-1.573

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	0.003	0.899	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)
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

