



Radial Cement Bond
Gamma Ray CCL
Log

Company	Petroshare Corp	Company	Petroshare Corp
Well	SHOOK 3-10-4NBH	Well	SHOOK 3-10-4NBH
Field	WATTENBERG	Field	WATTENBERG
County	ADAMS	County	ADAMS
State	COLORADO	State	COLORADO
Location:		API # : 05-001-09976	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'	
NWSE SEC.03-T1S-R67W 2058' FSL & 2109' FEL			
Date	MARCH 5, 2018		
Run Number	ONE		
Depth Driller	13750'		
Depth Logger	7849'		
Bottom Logged Interval	7837'		
Top Log Interval	44'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	2262'		
Time Well Ready	00:30		
Time Logger on Bottom	01:15		
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 K.B.
Marker joint at 6902' - 6925'

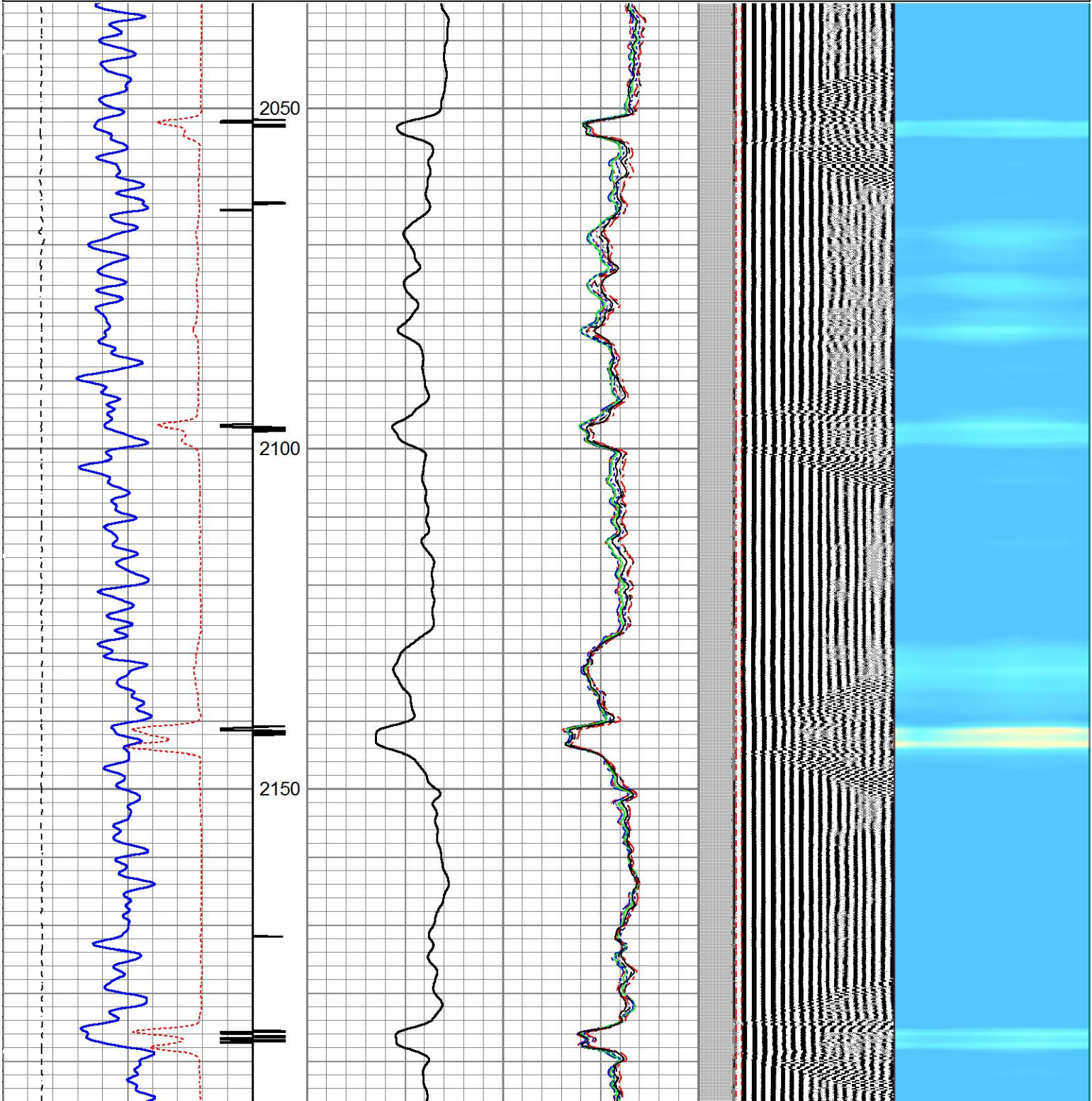
THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

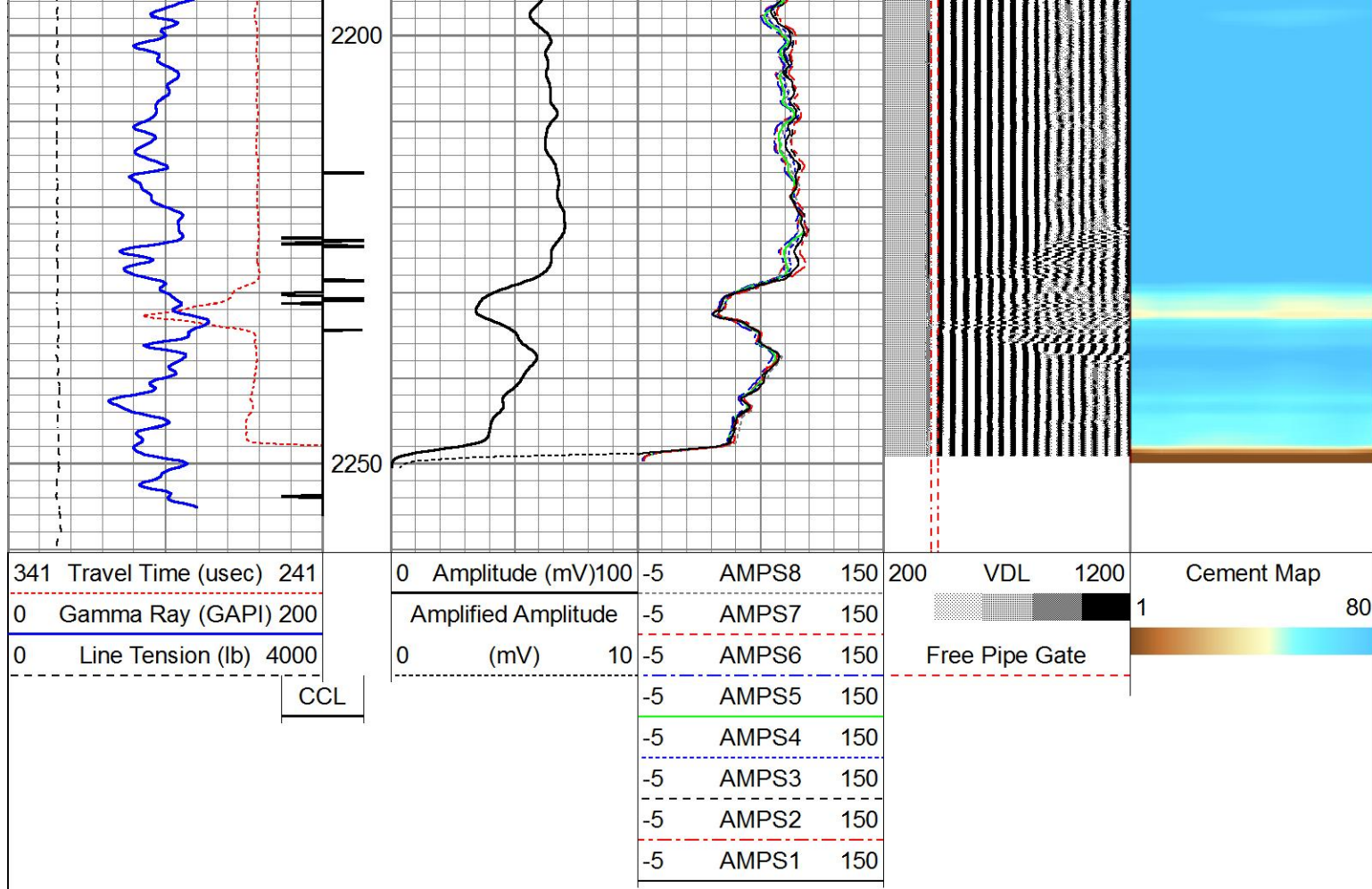
M. NOWICKI, B. SISSON, S. BARNETT



Free Pipe Pass (0) PSI

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				
			CCL			-5	AMPS5	150					
						-5	AMPS4	150					
						-5	AMPS3	150					
						-5	AMPS2	150					
						-5	AMPS1	150					





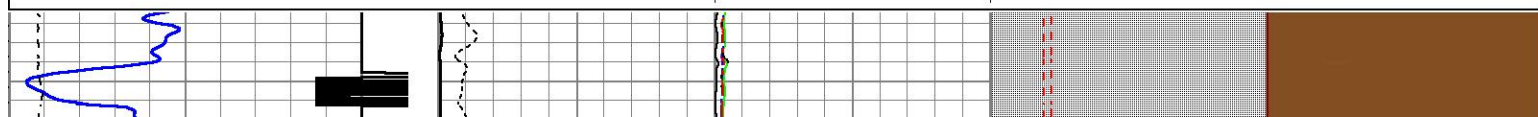
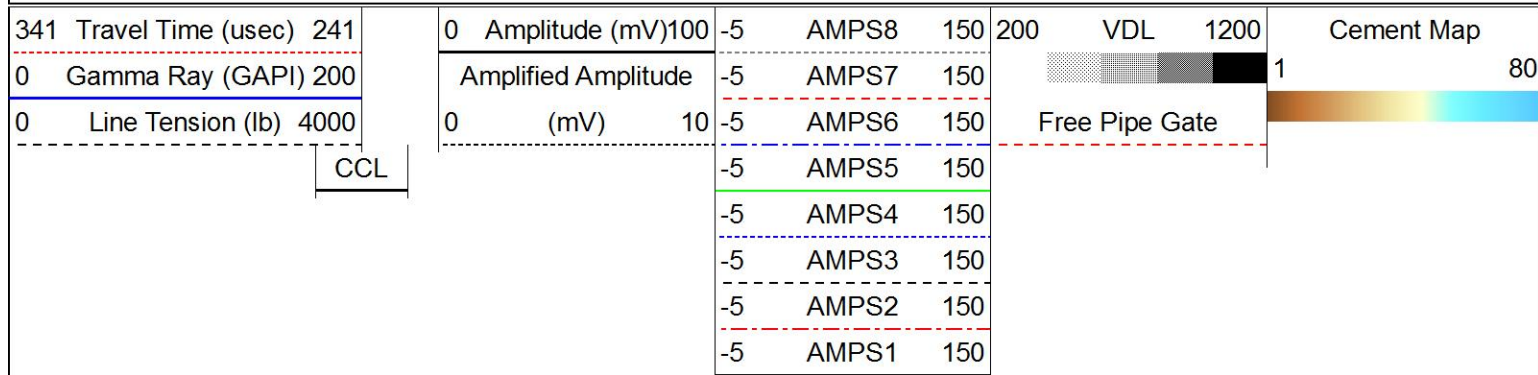
C&J ENERGY SERVICES

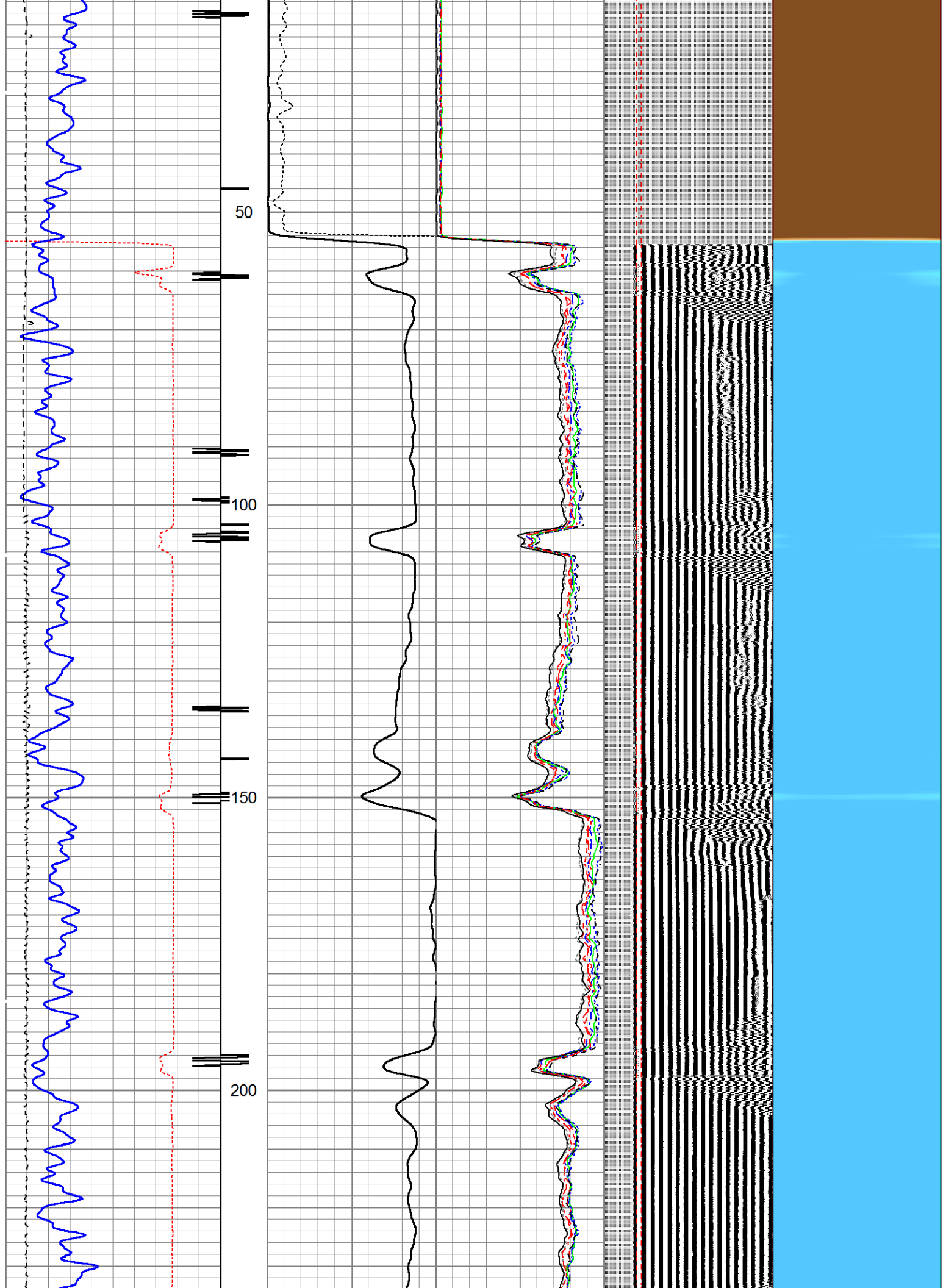
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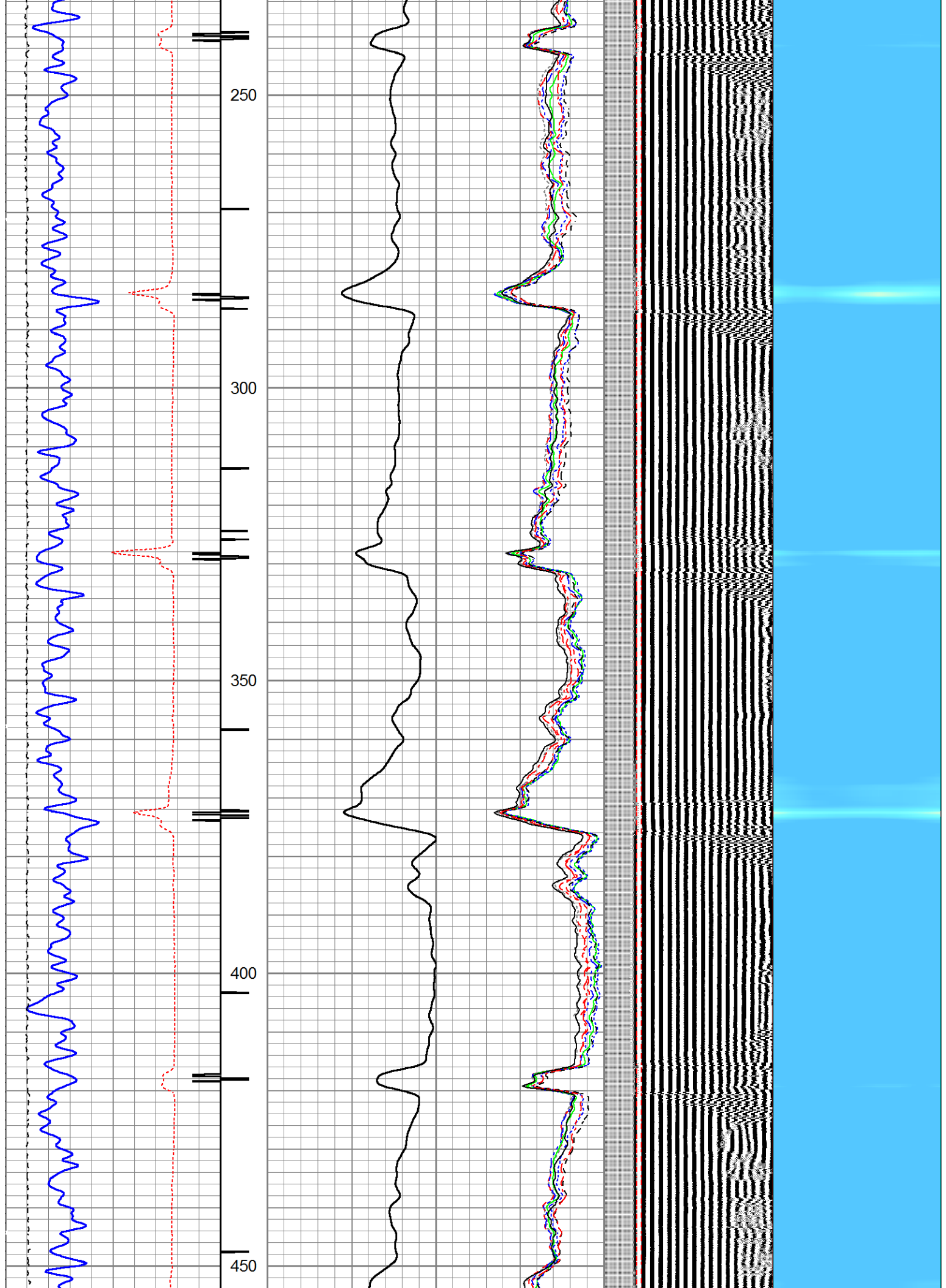
C&J ENERGY SERVICES

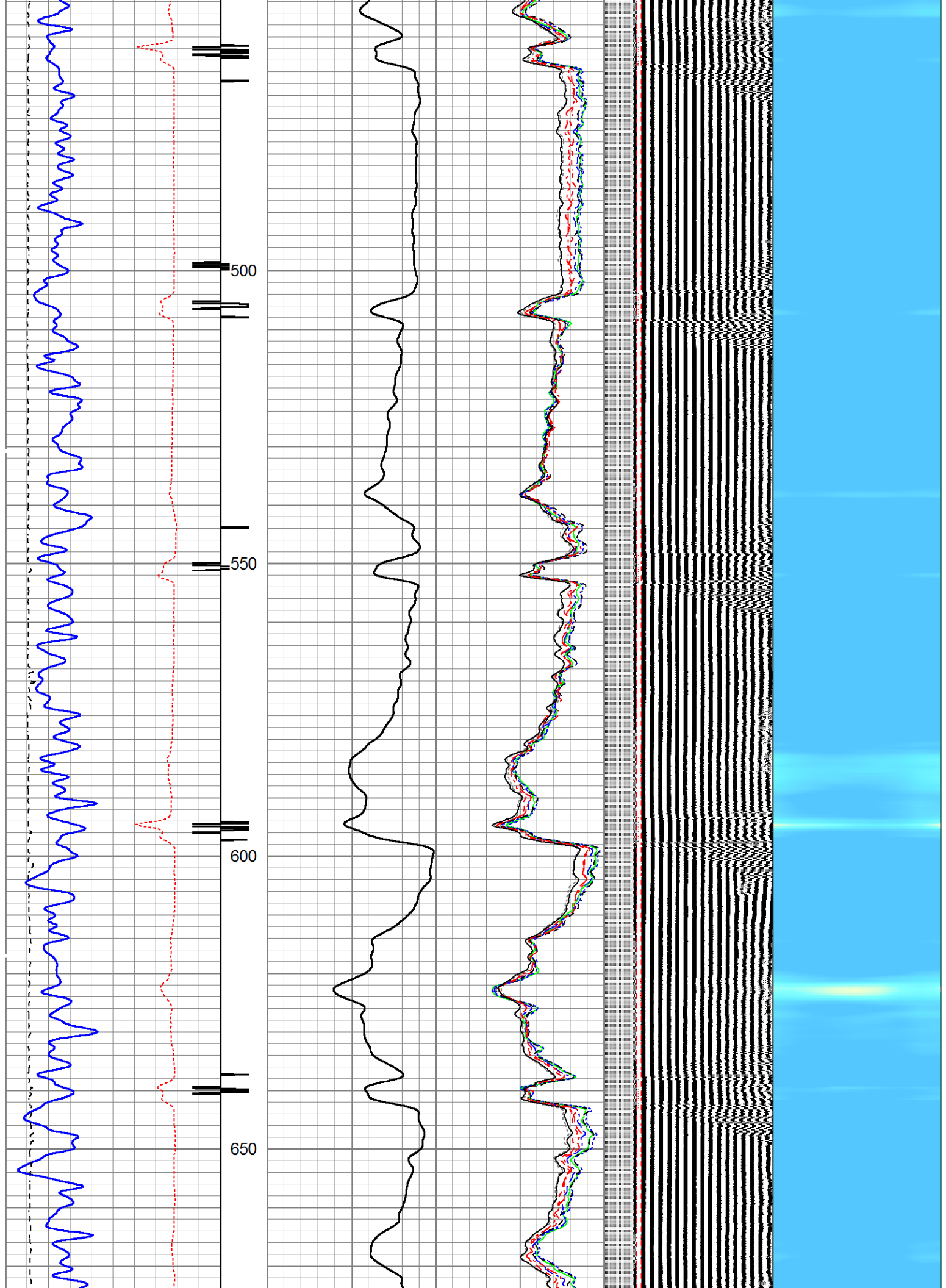
Main Pass (0) PSI

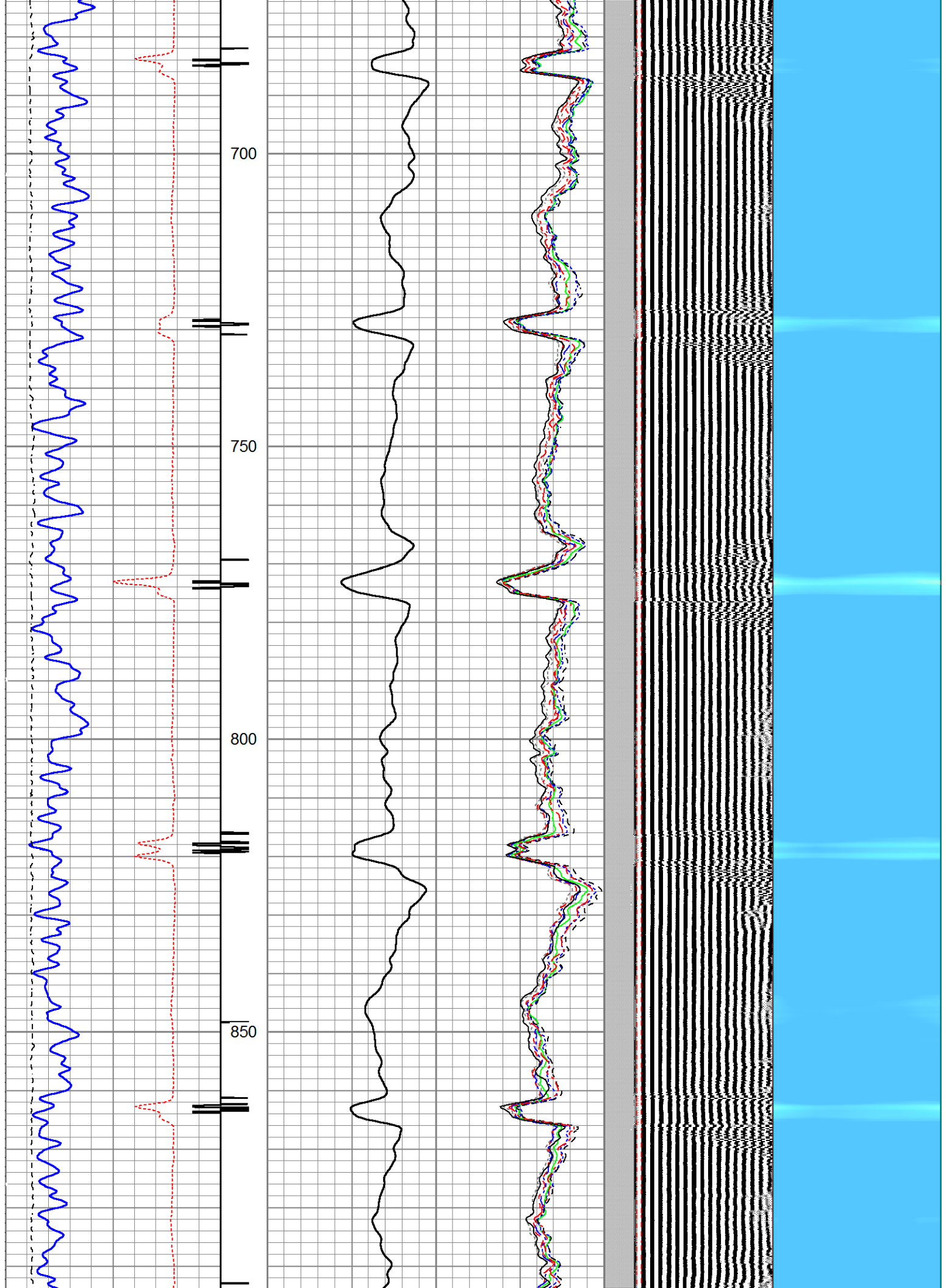
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 Presentation Format scbl5_5
 Dataset Creation Mon Mar 05 03:59:25 2018
 Charted by Depth in Feet scaled 1:240

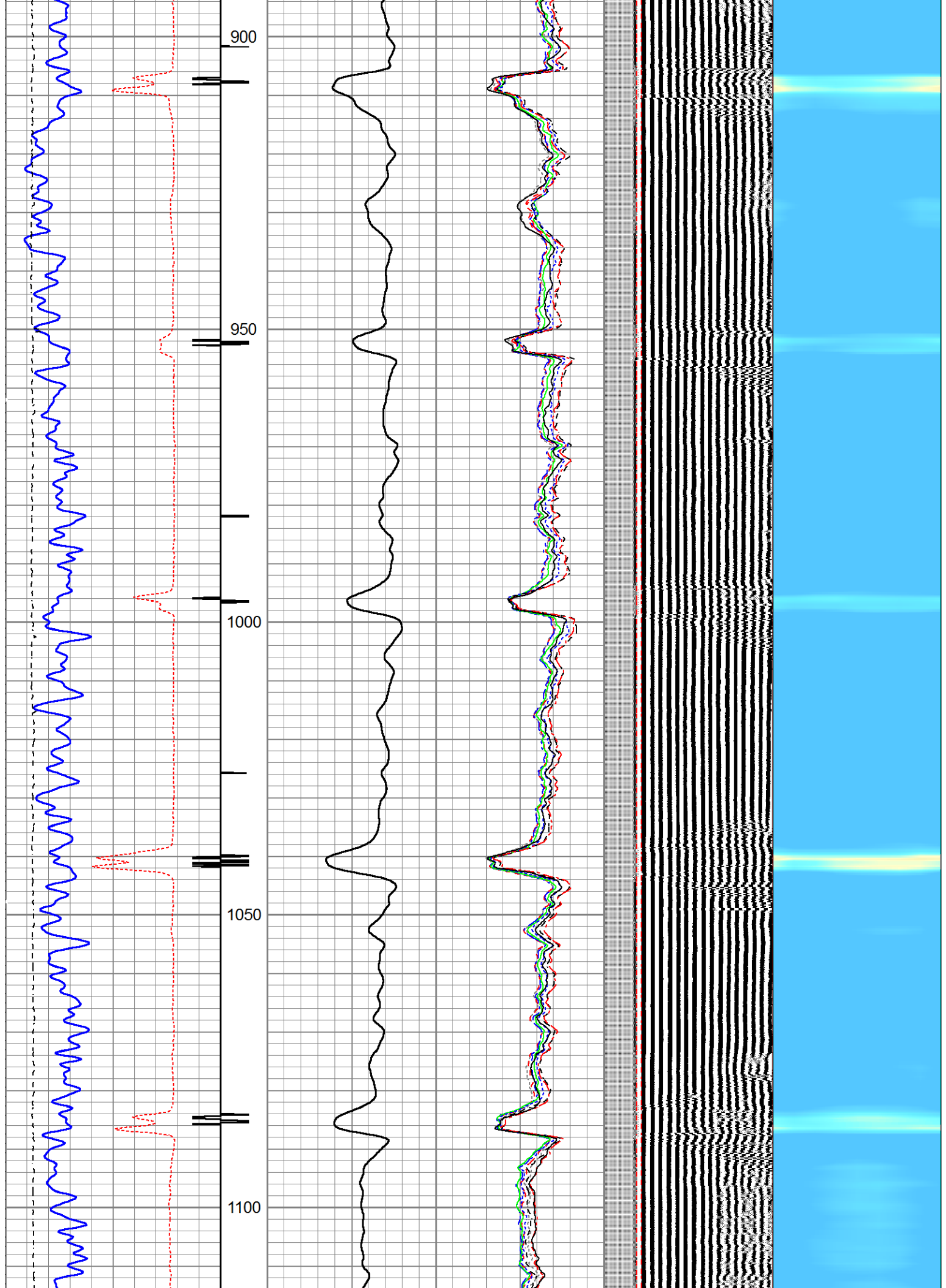


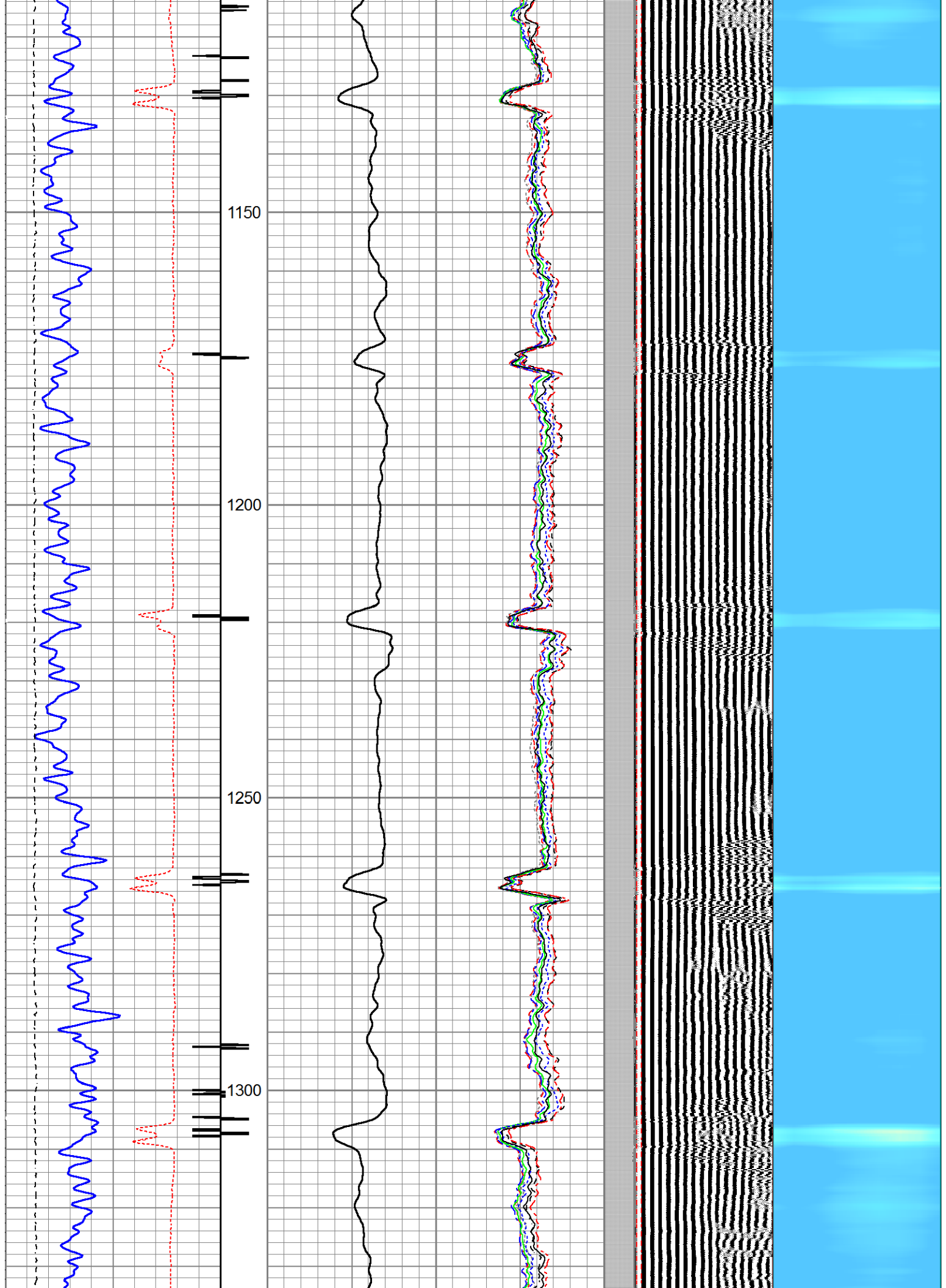


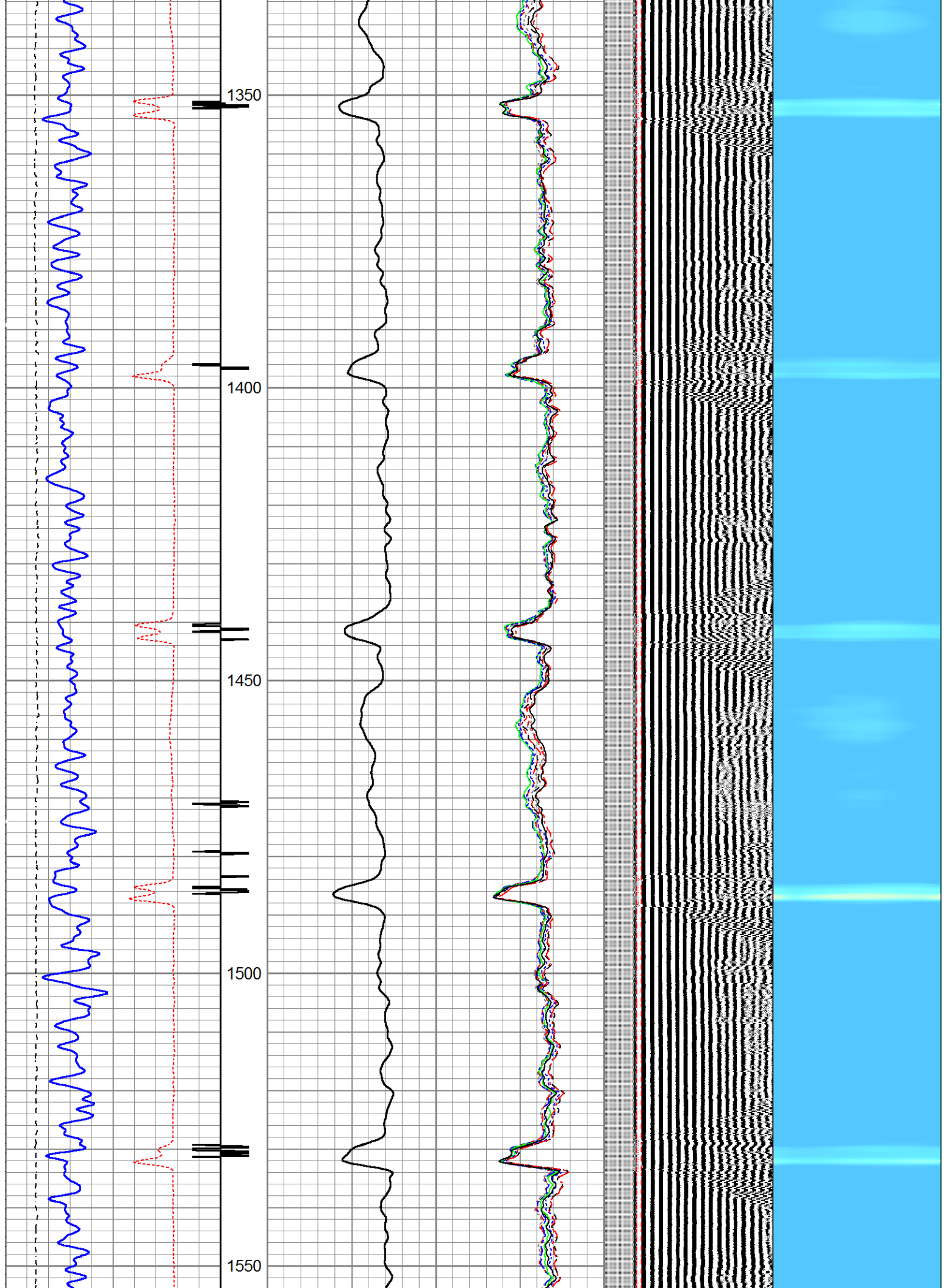


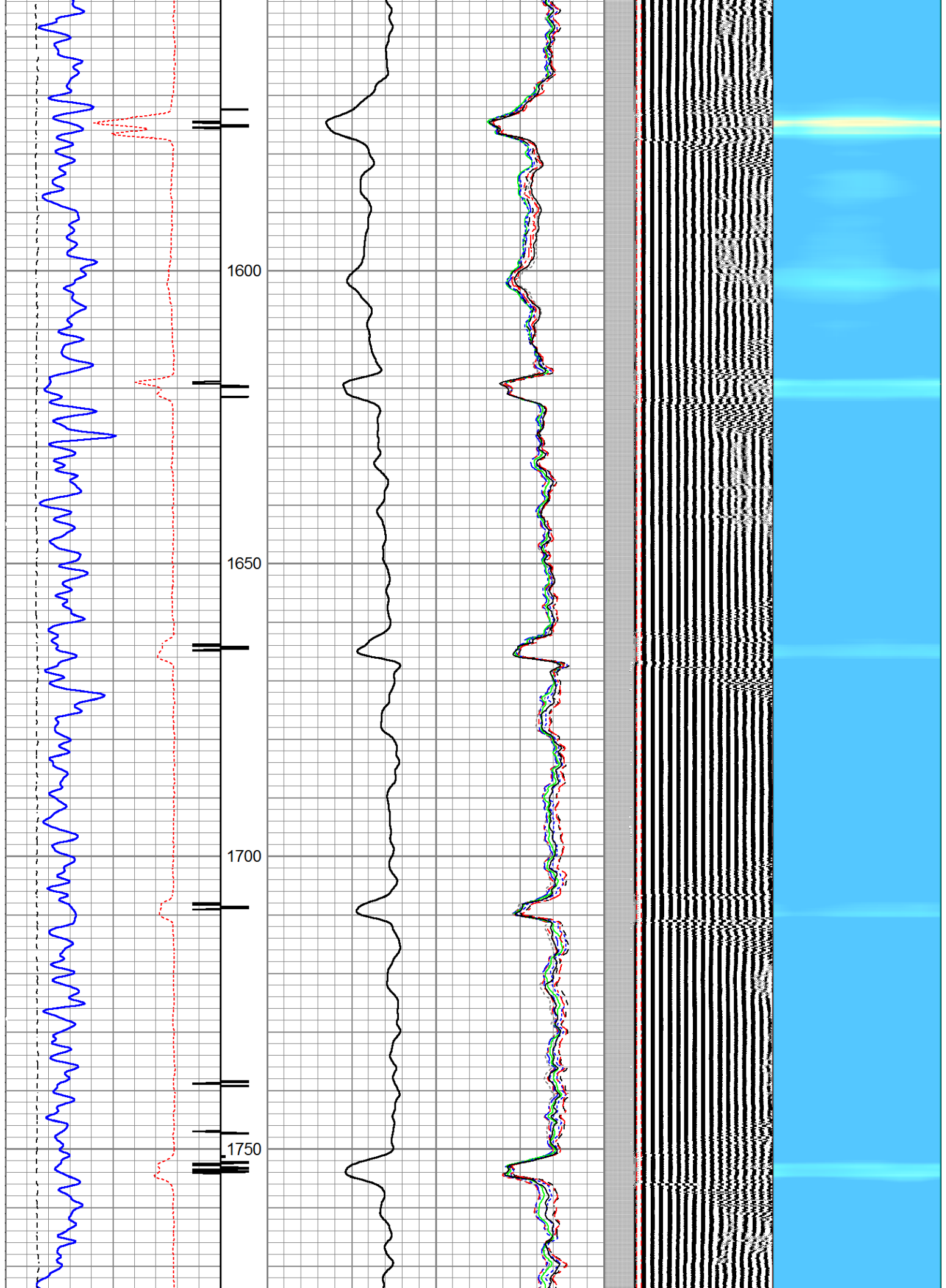


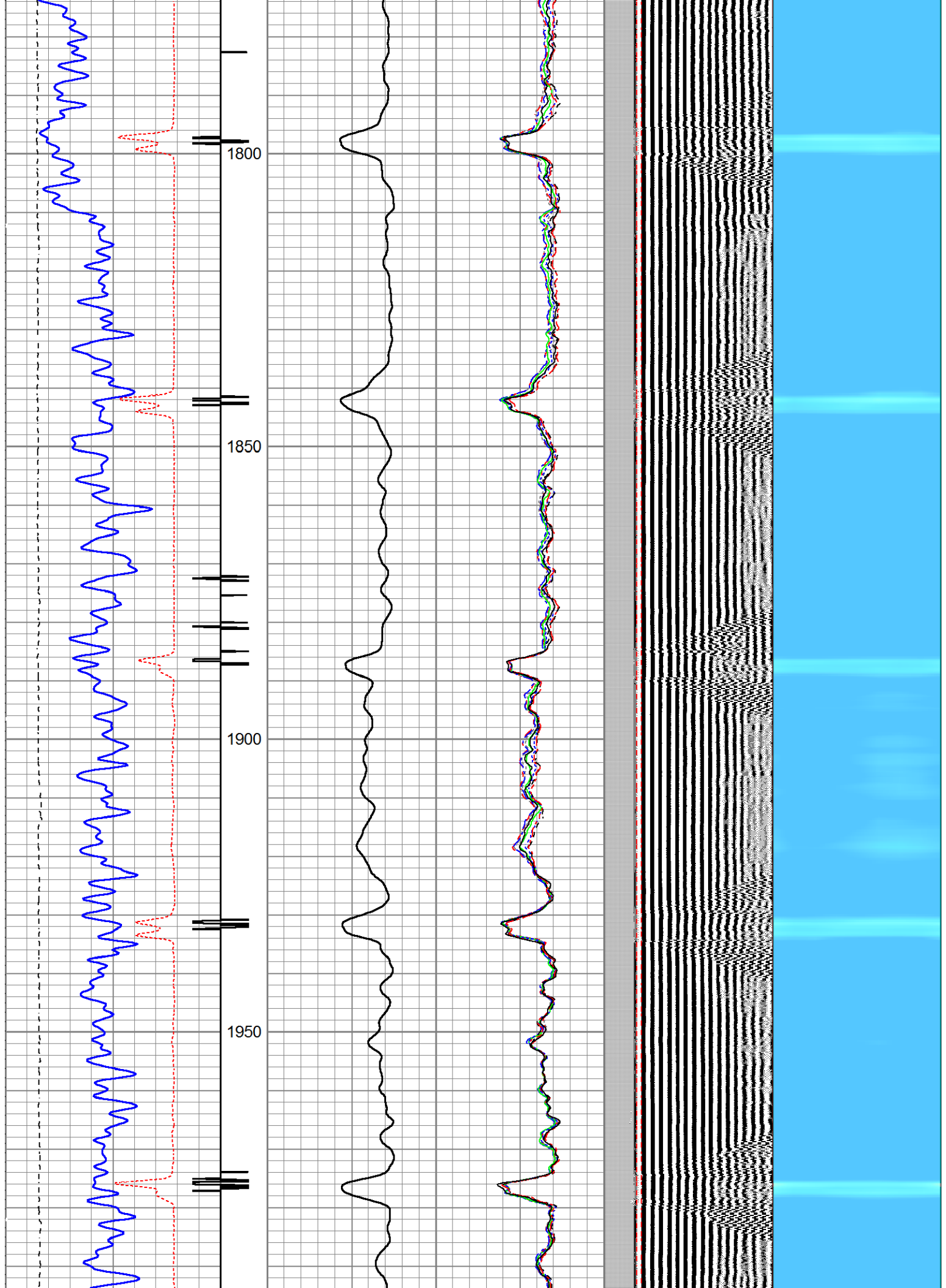


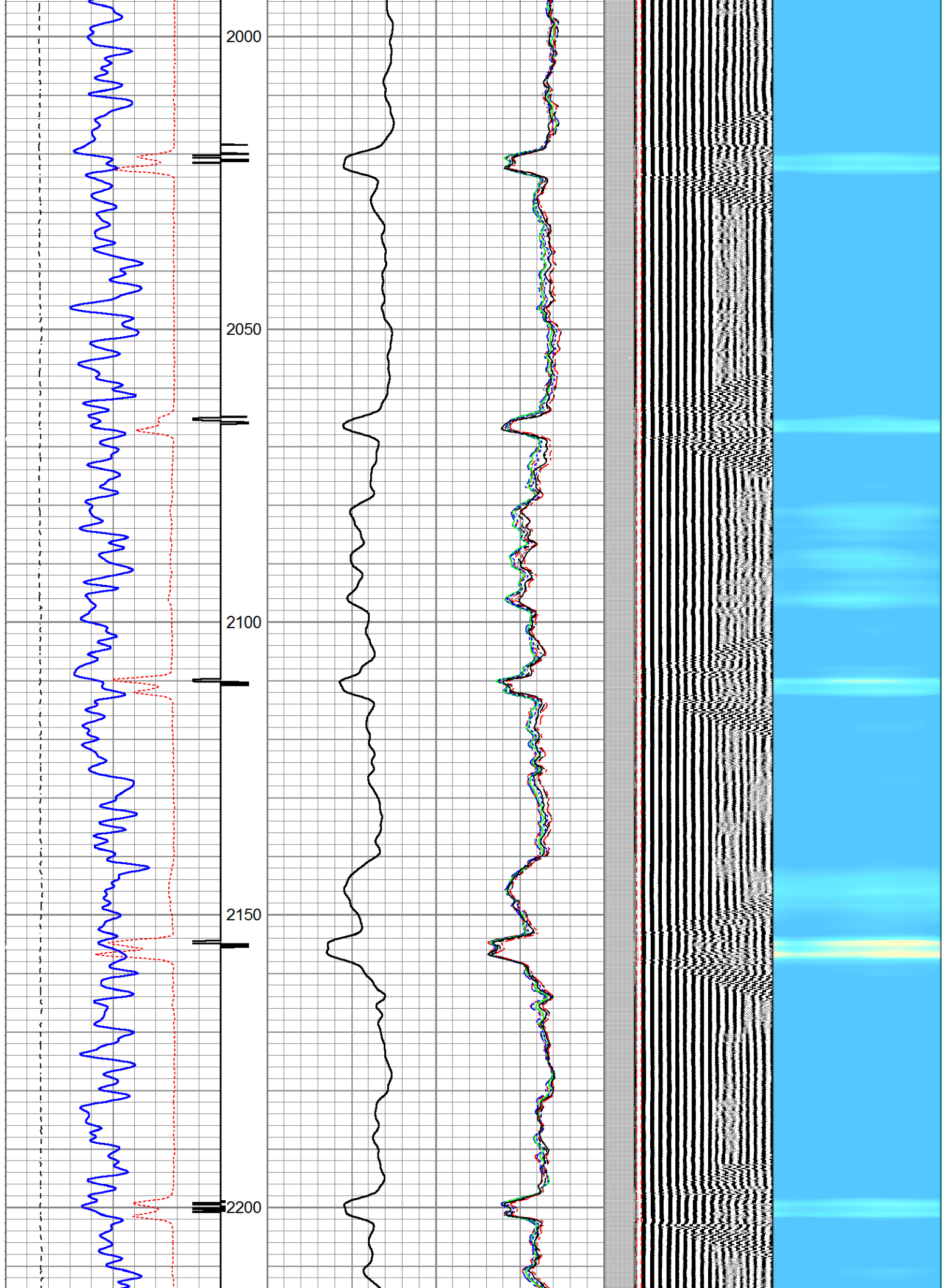


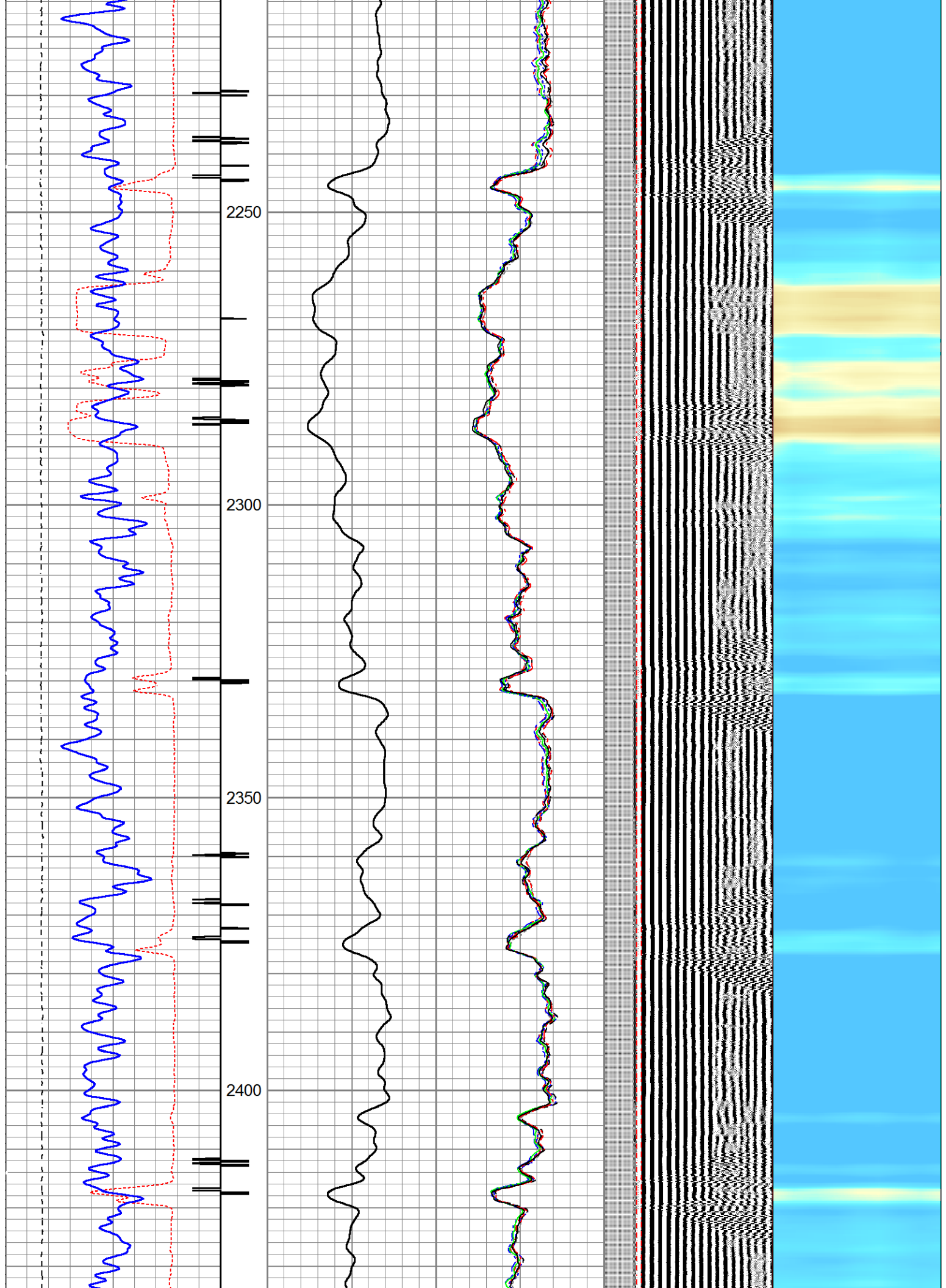


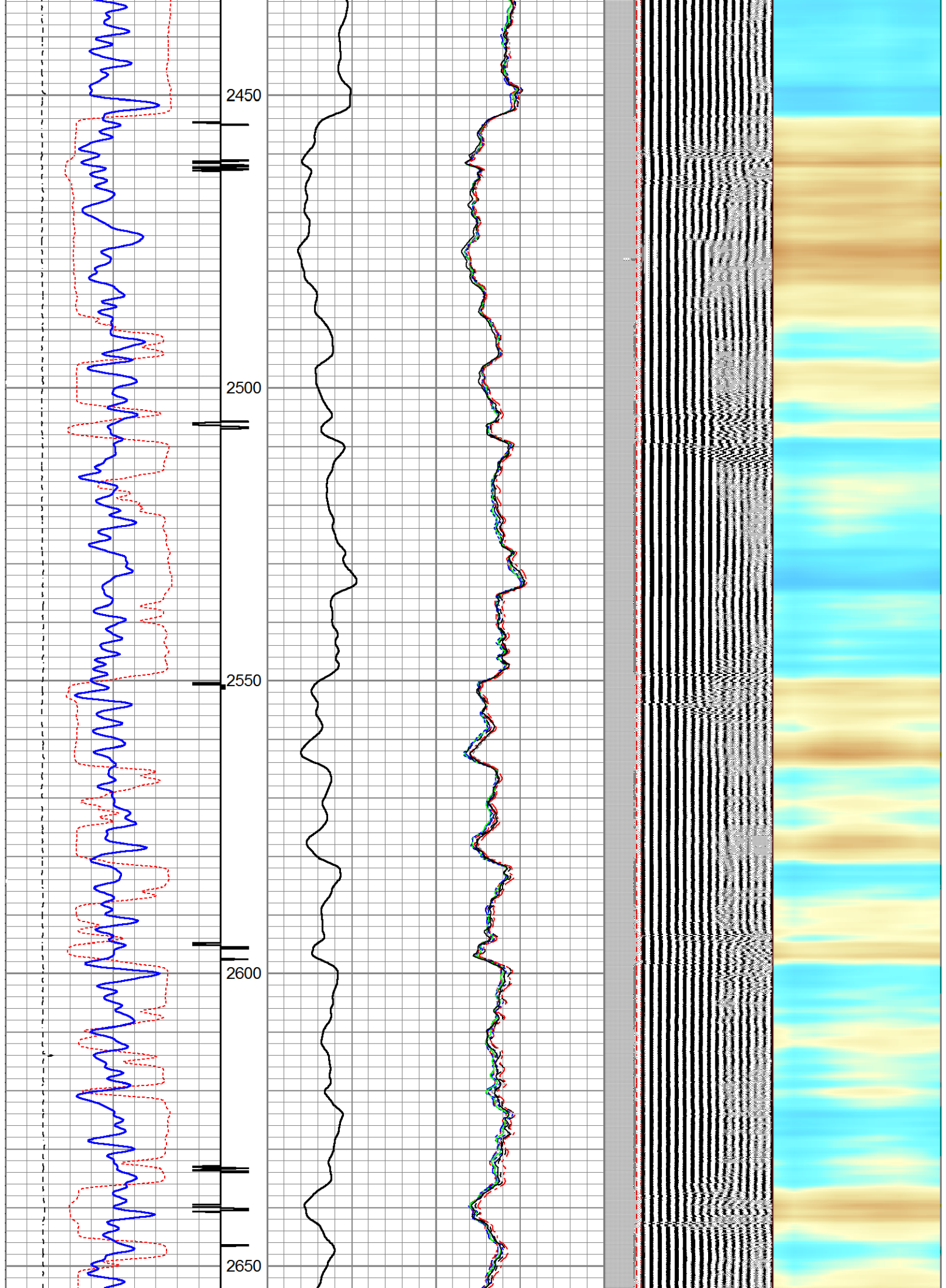


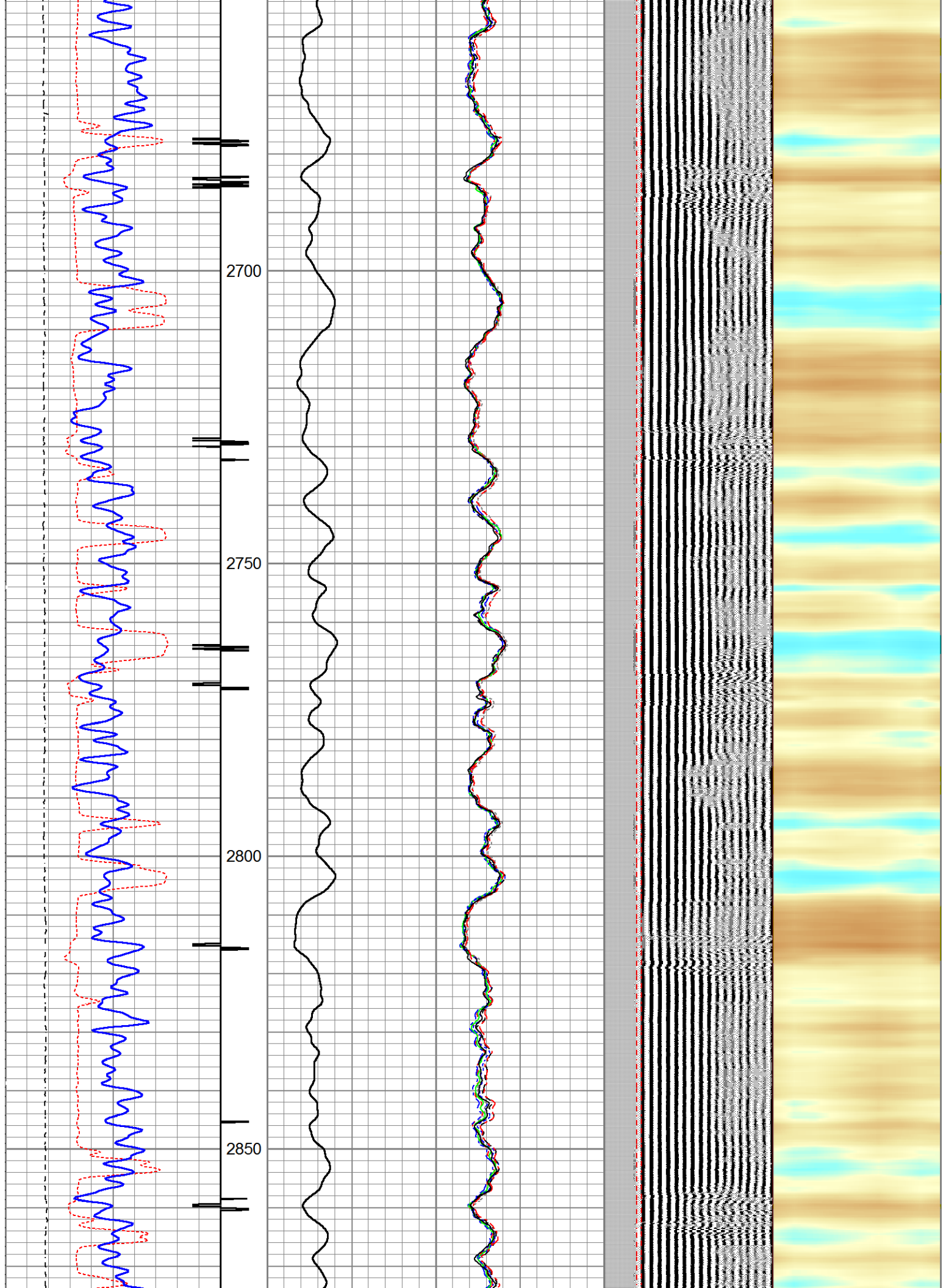


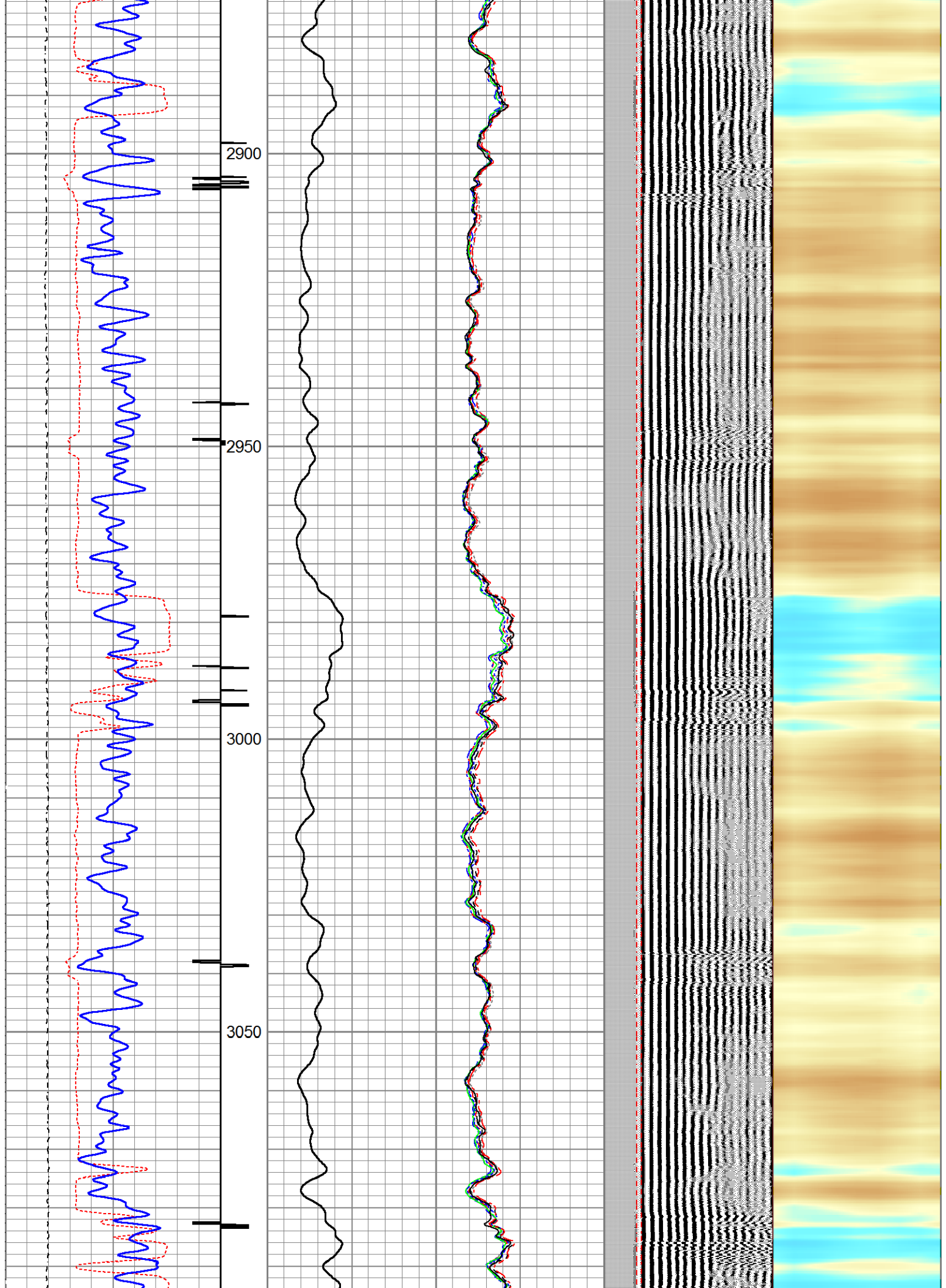


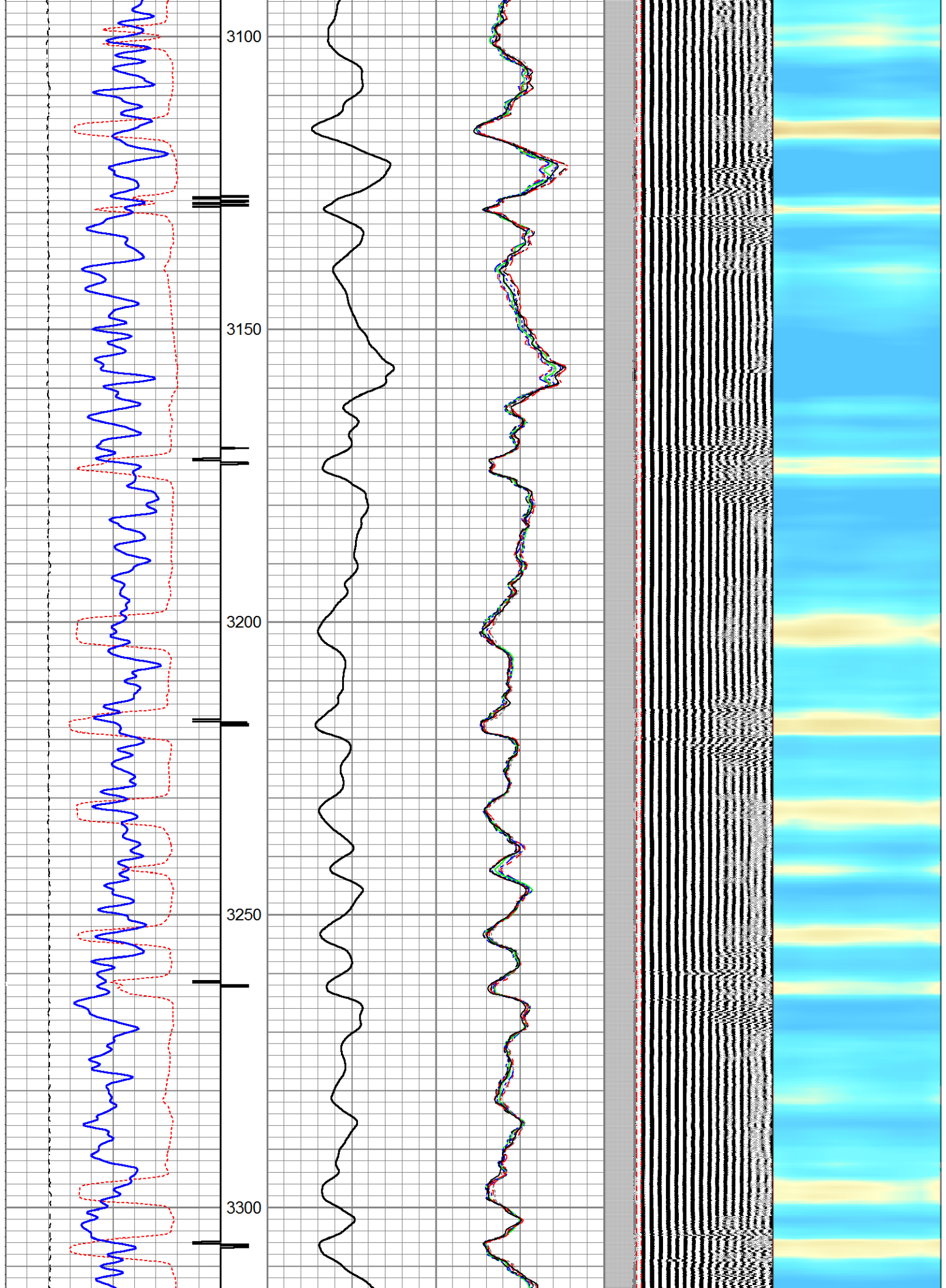


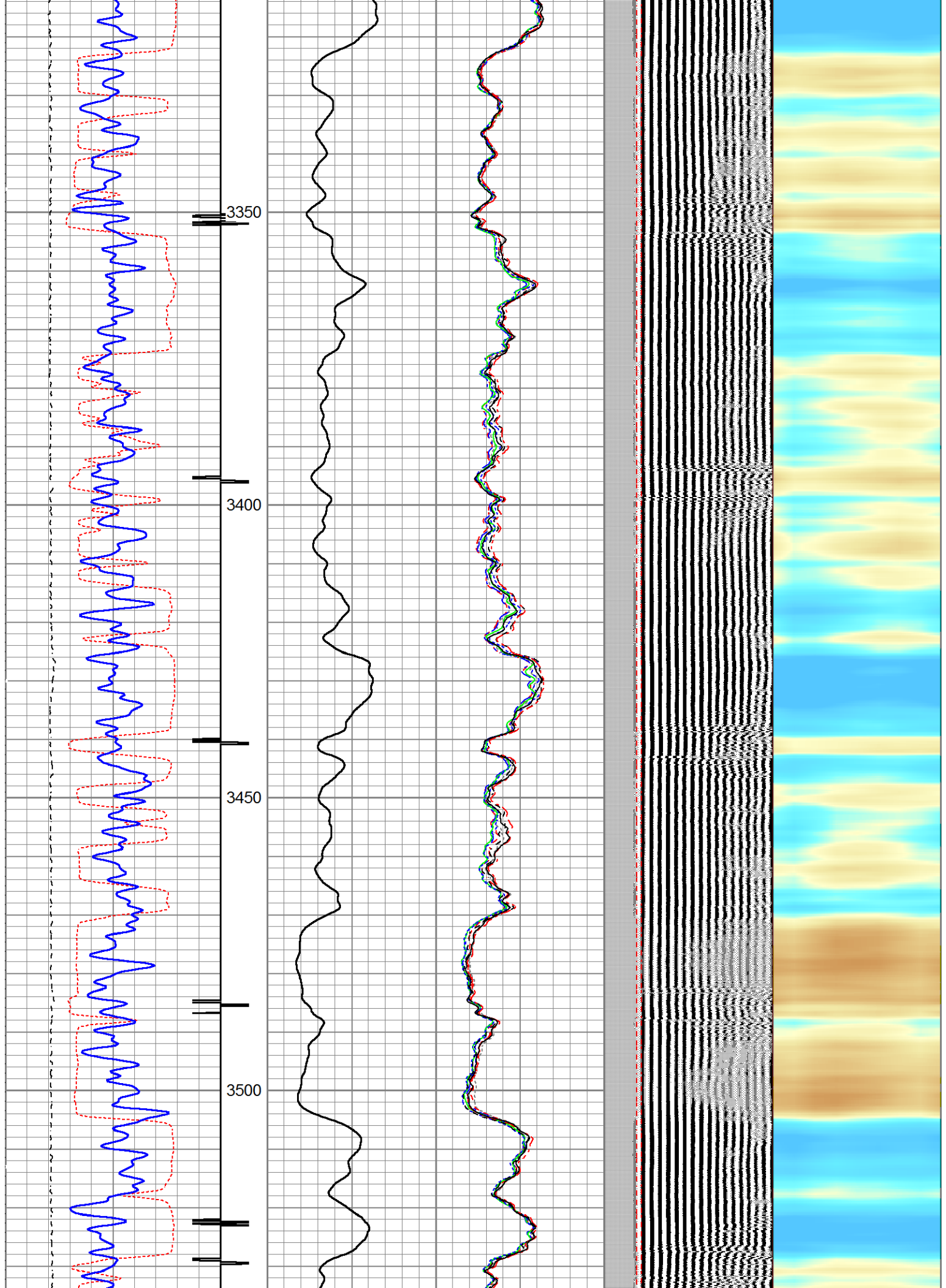


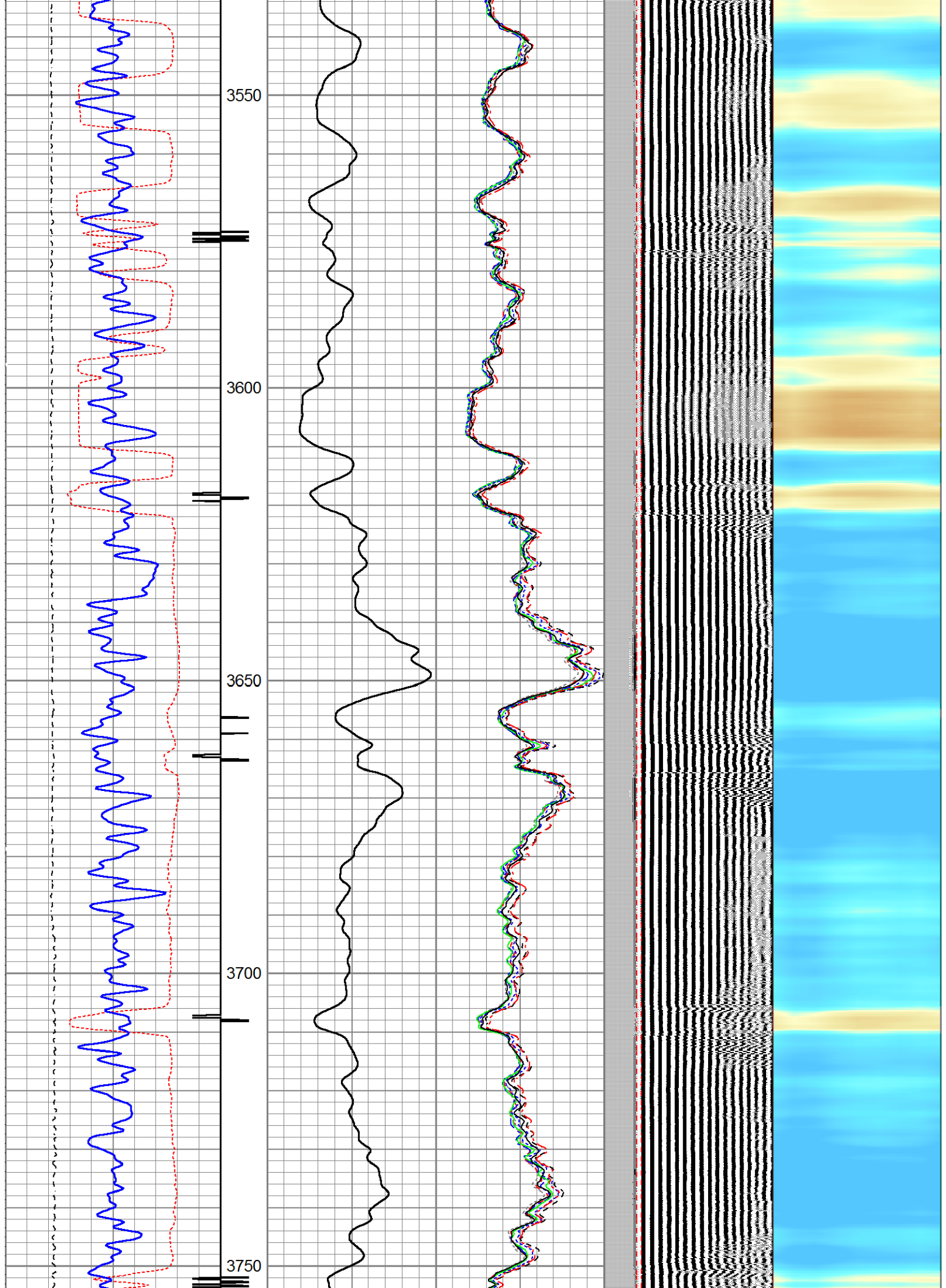


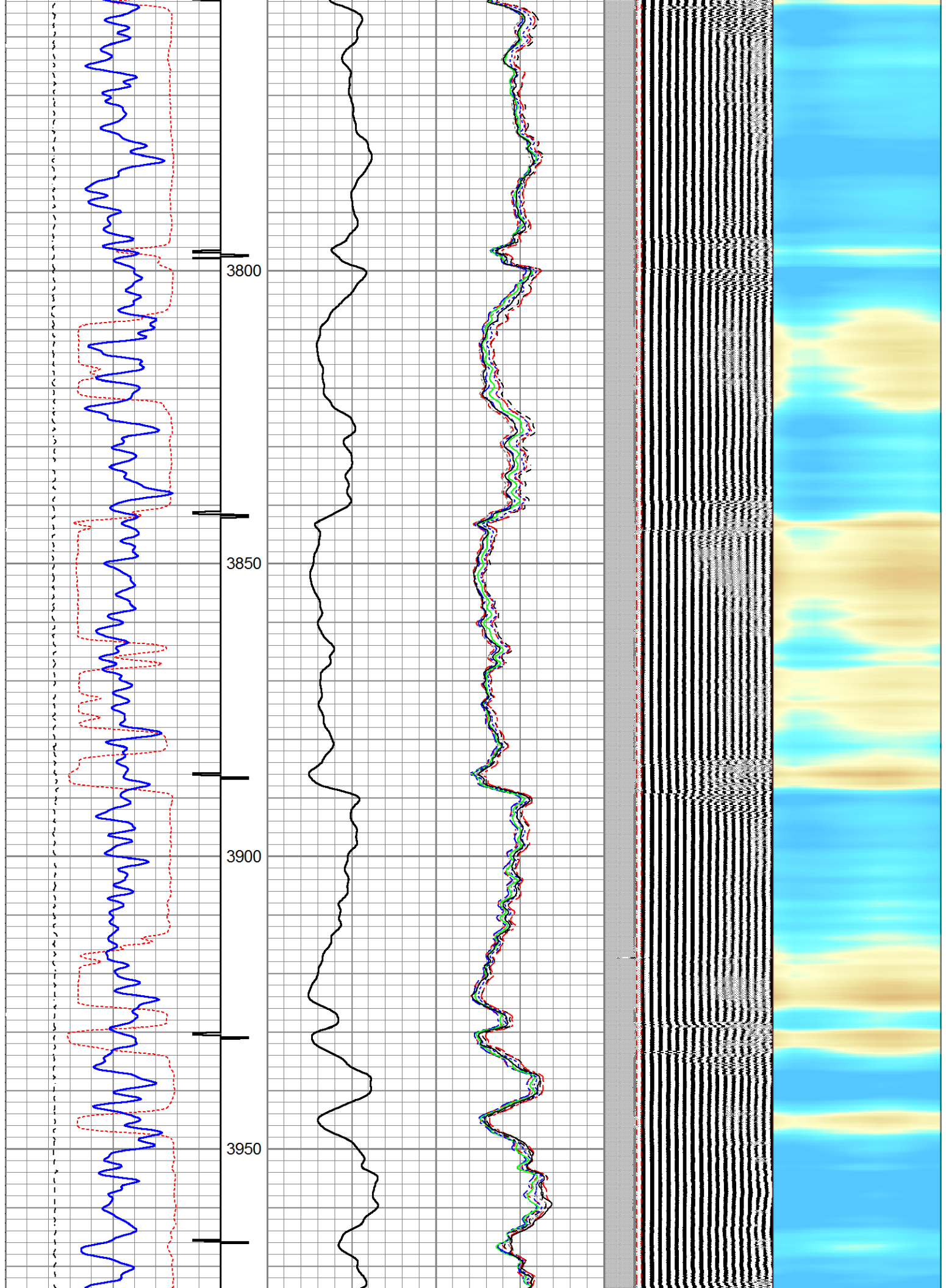


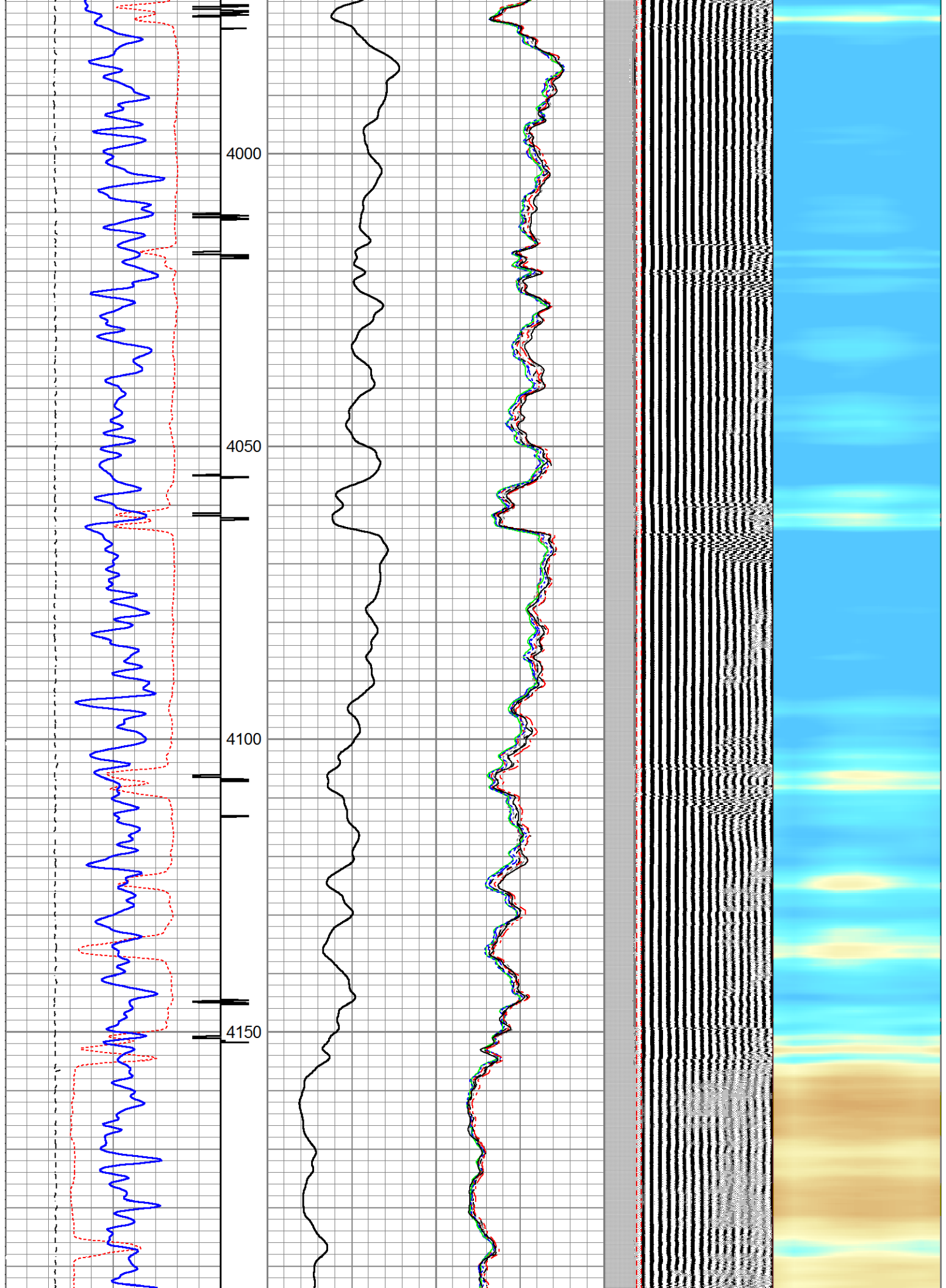


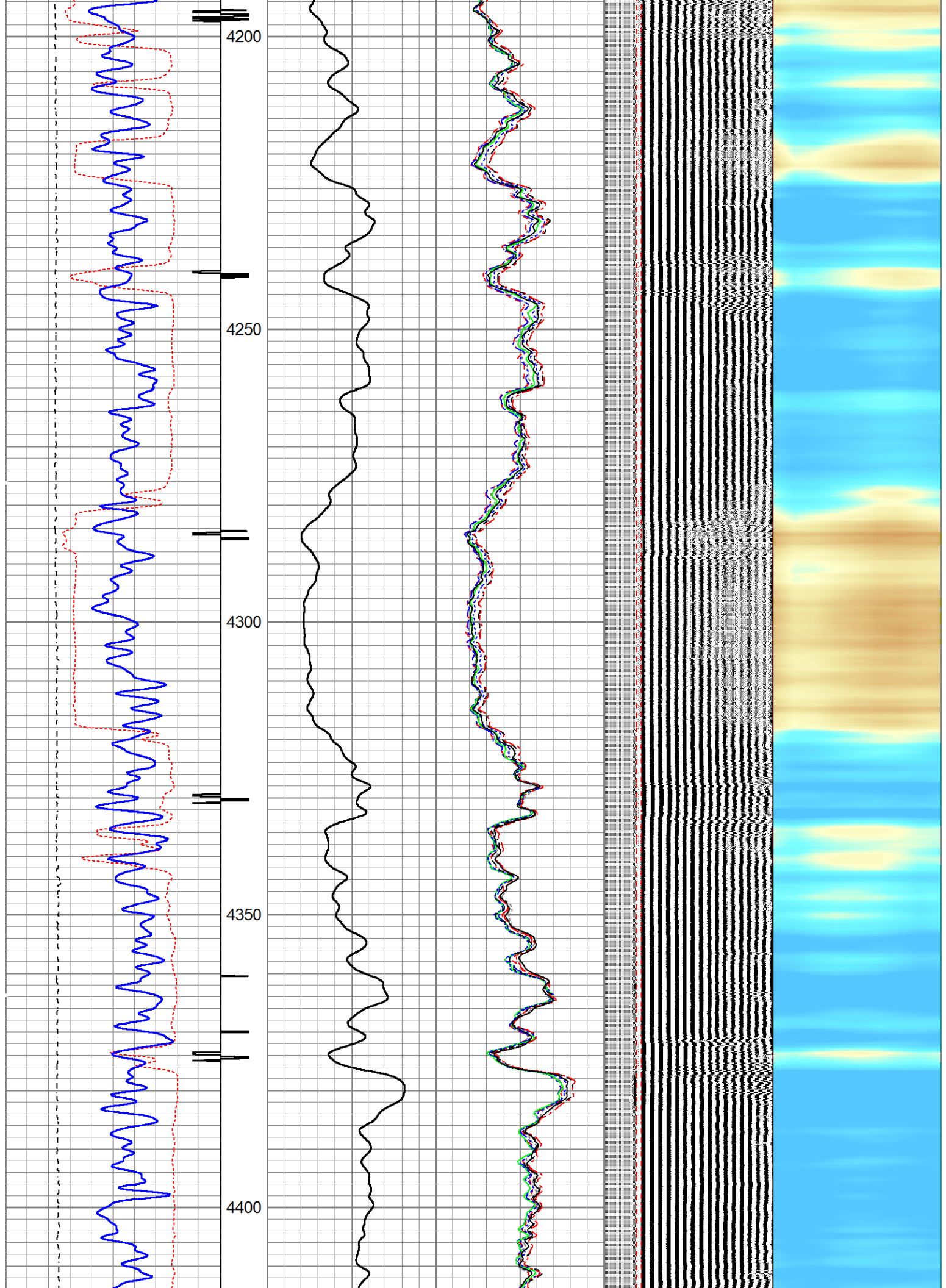


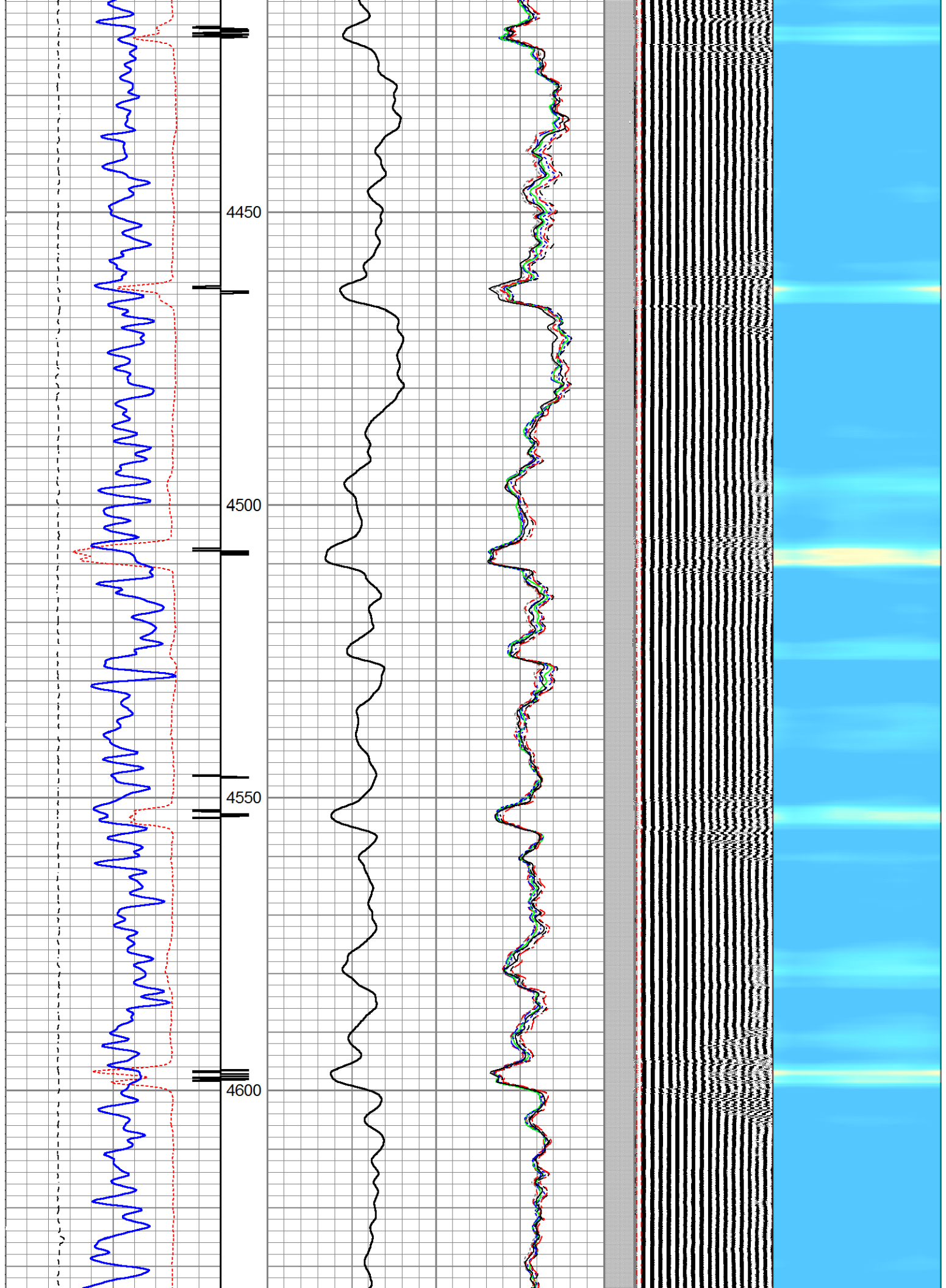


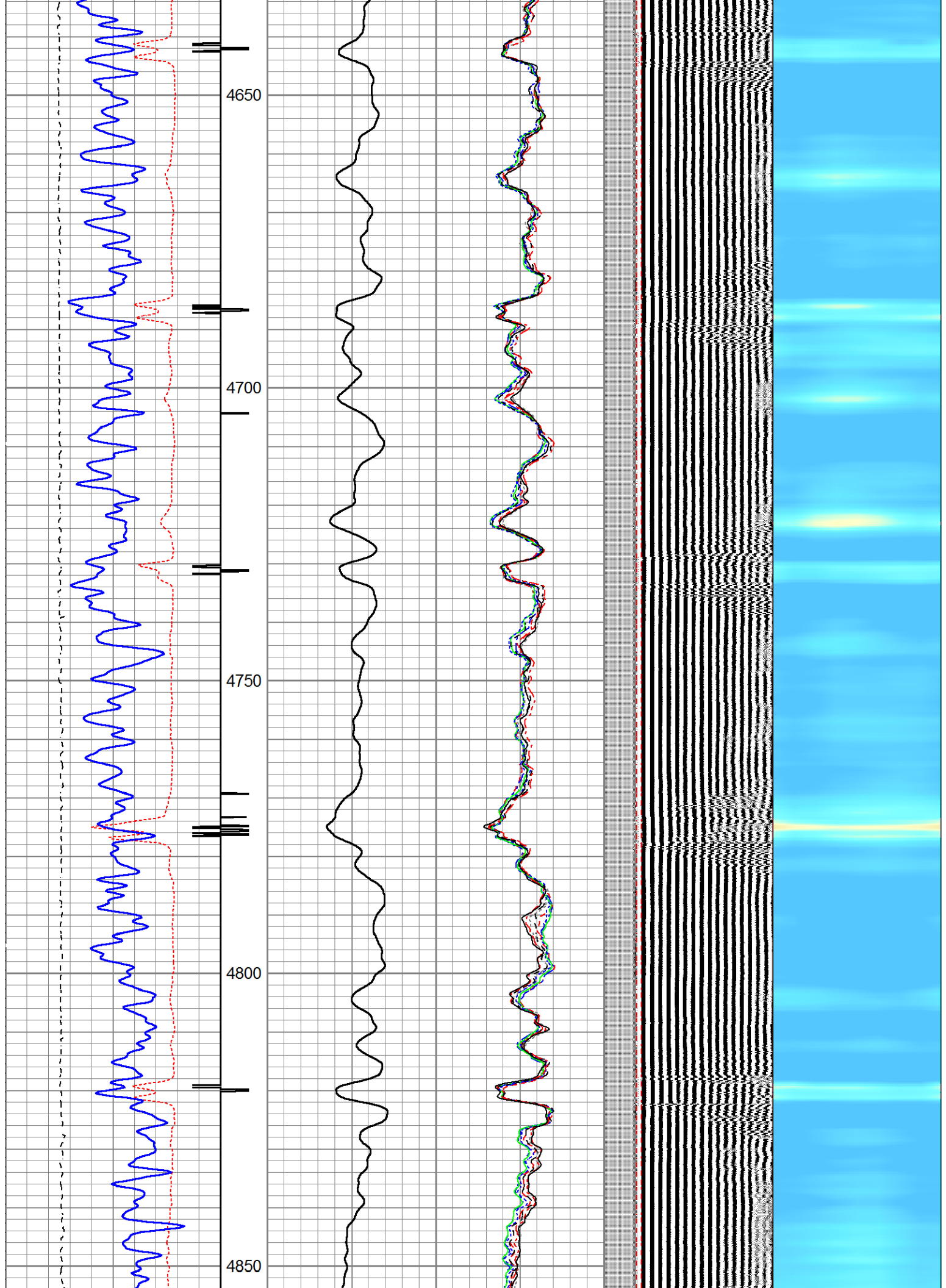


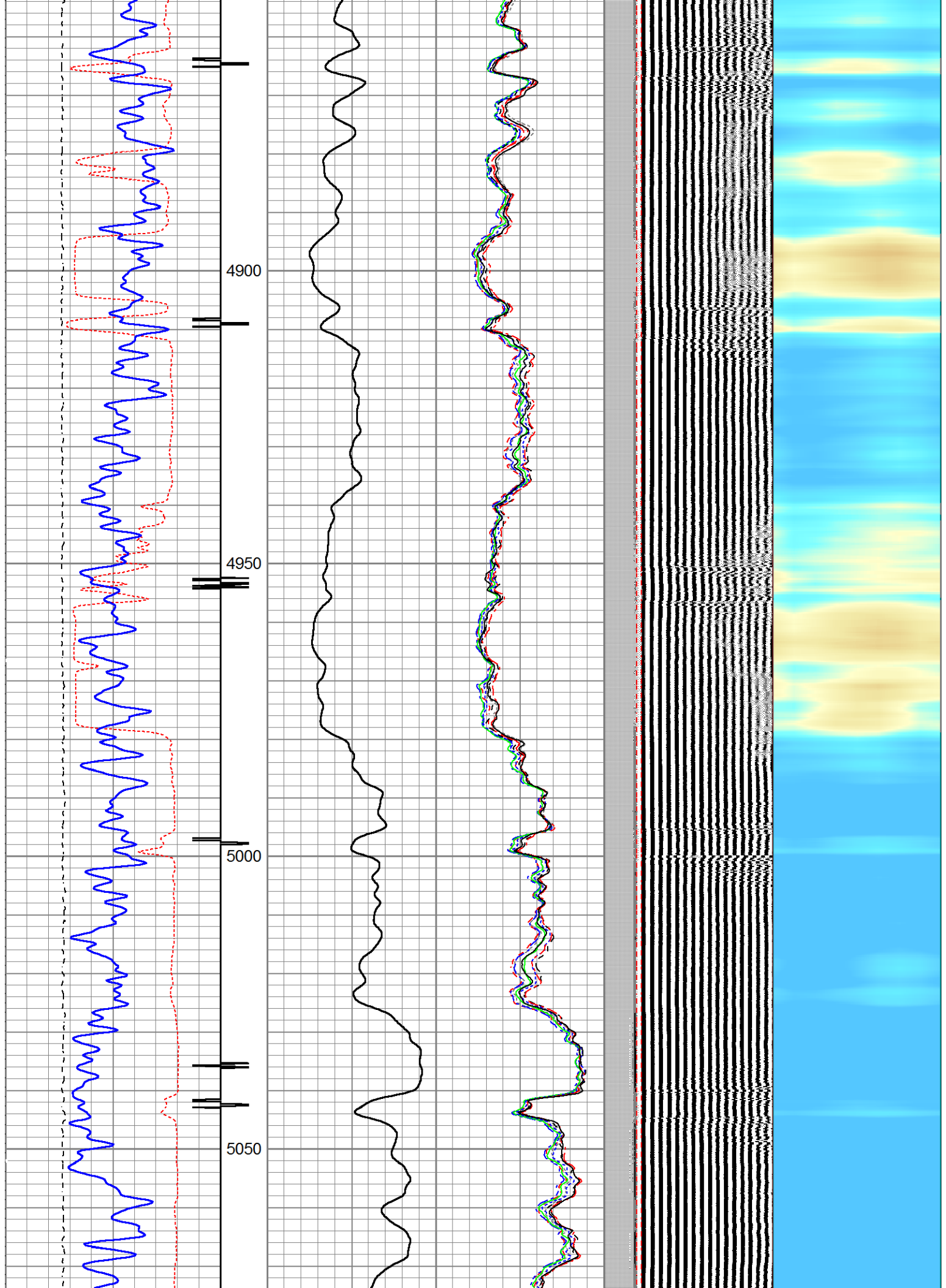


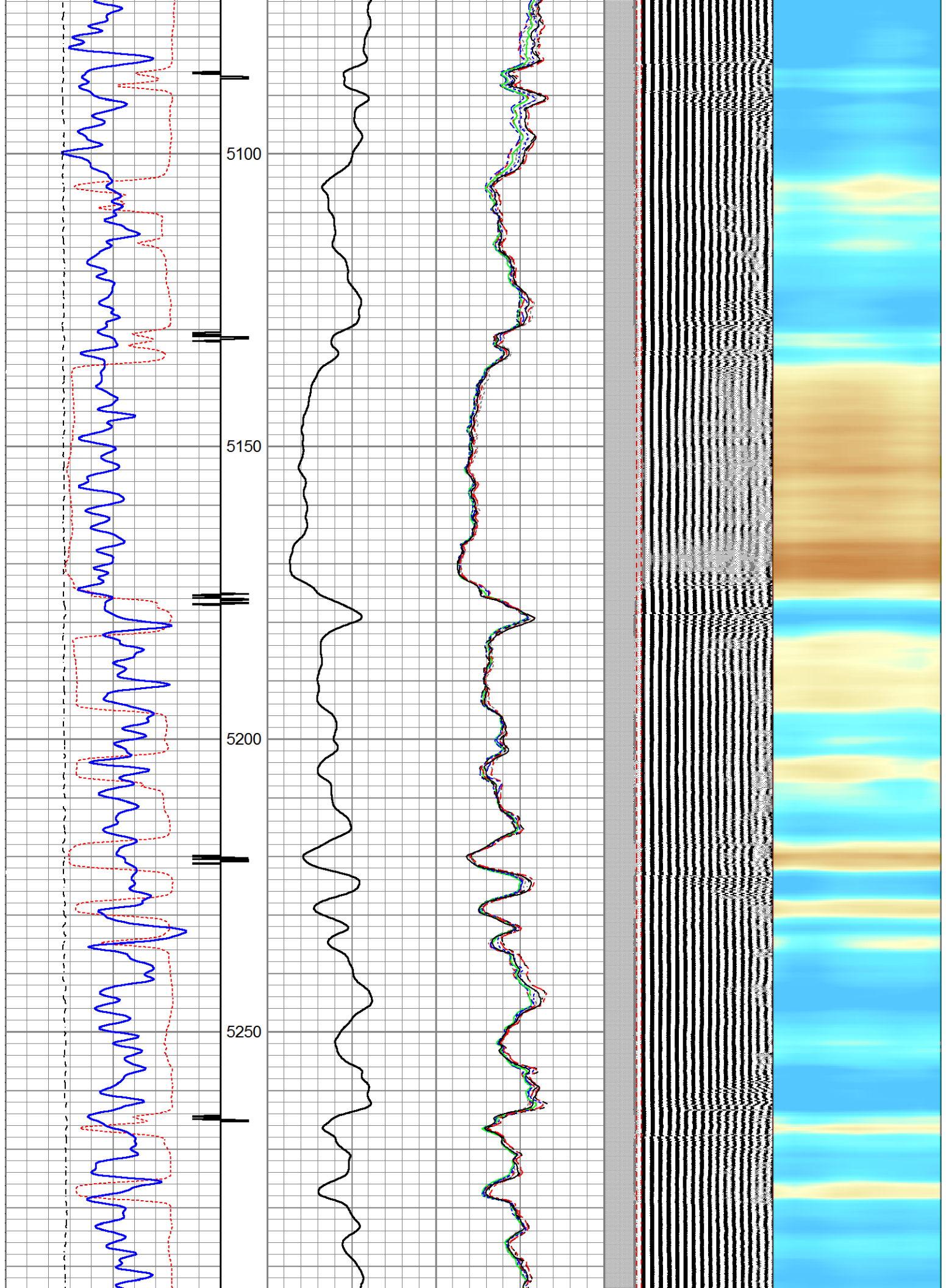


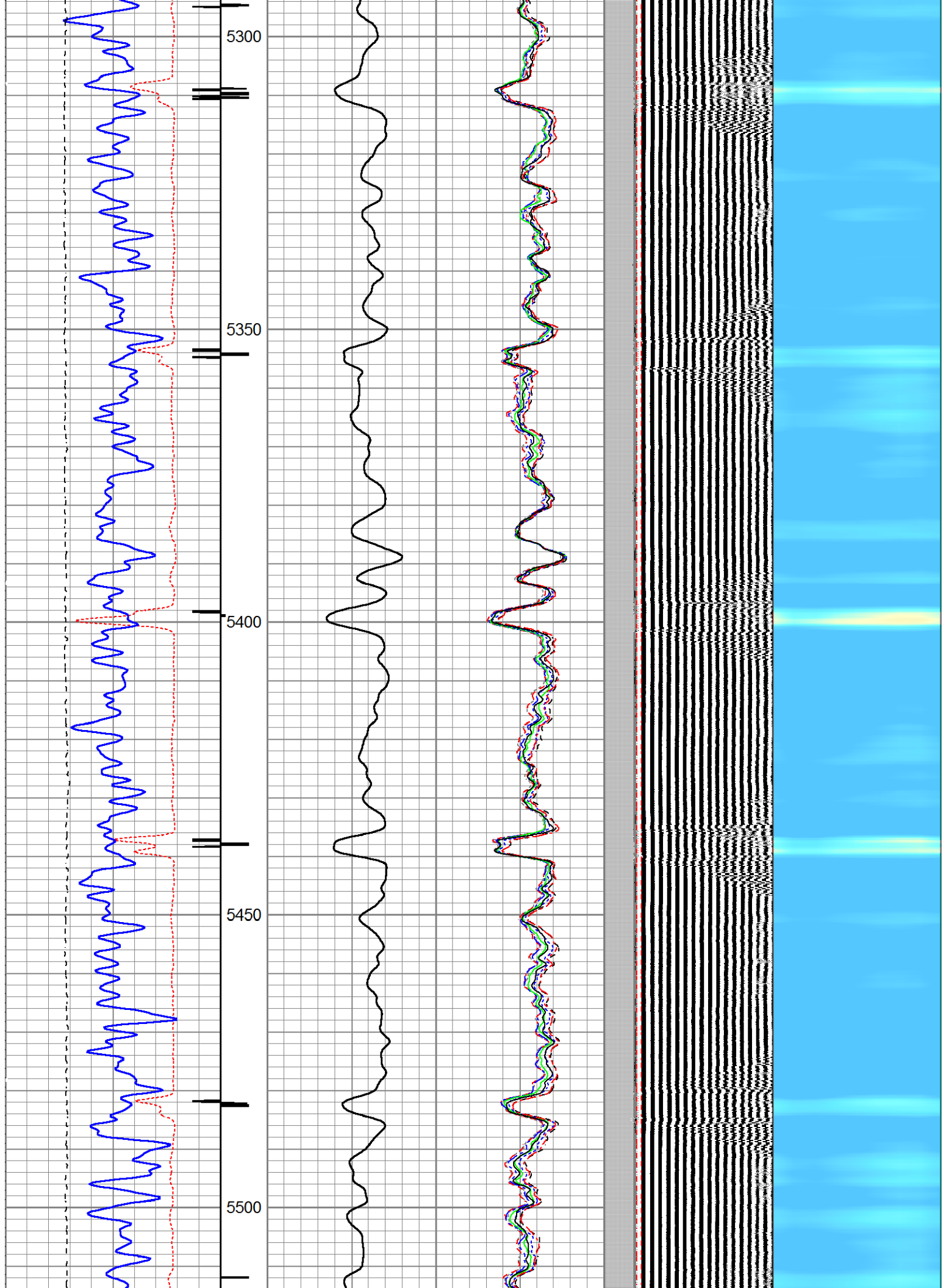


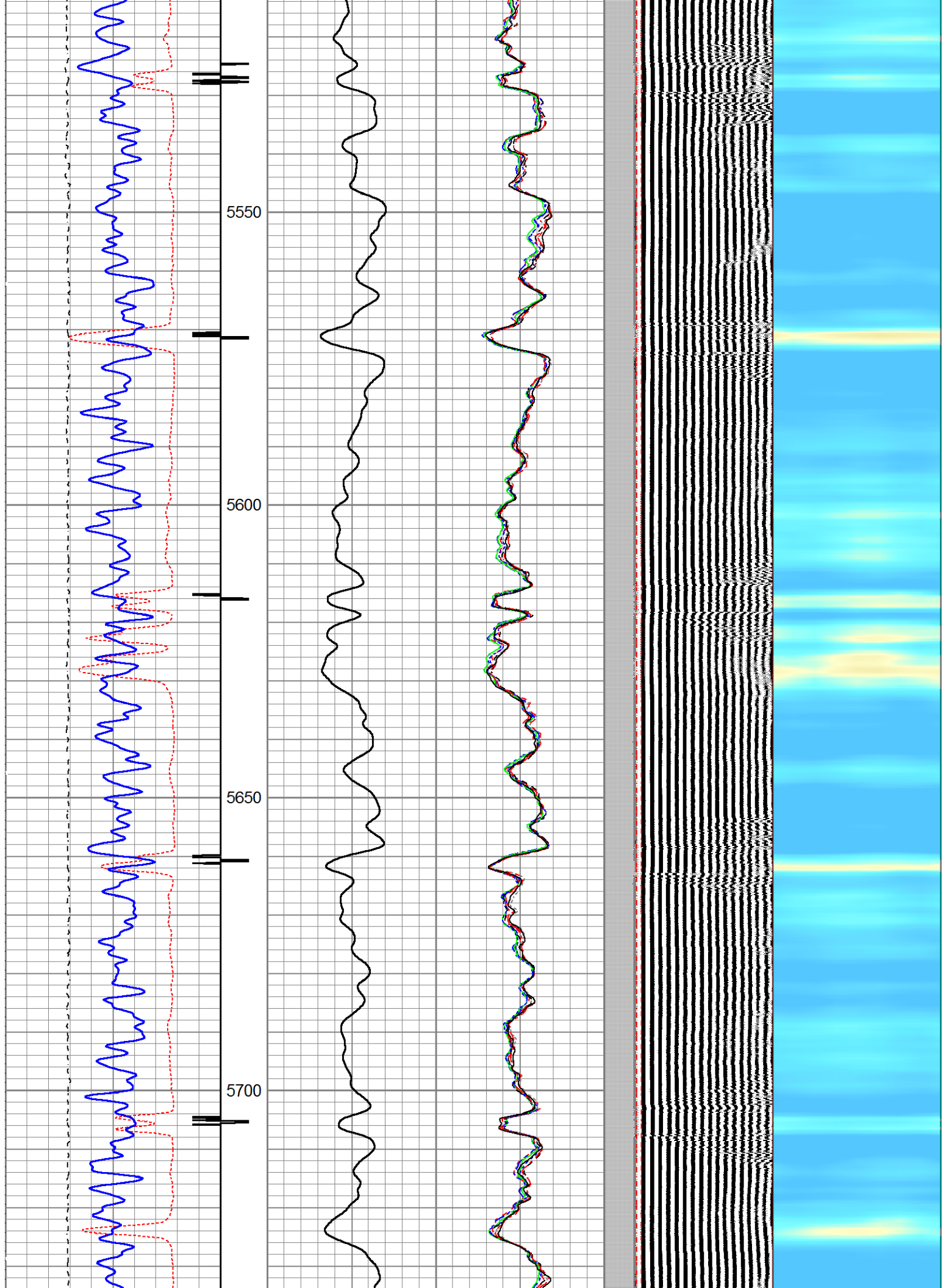


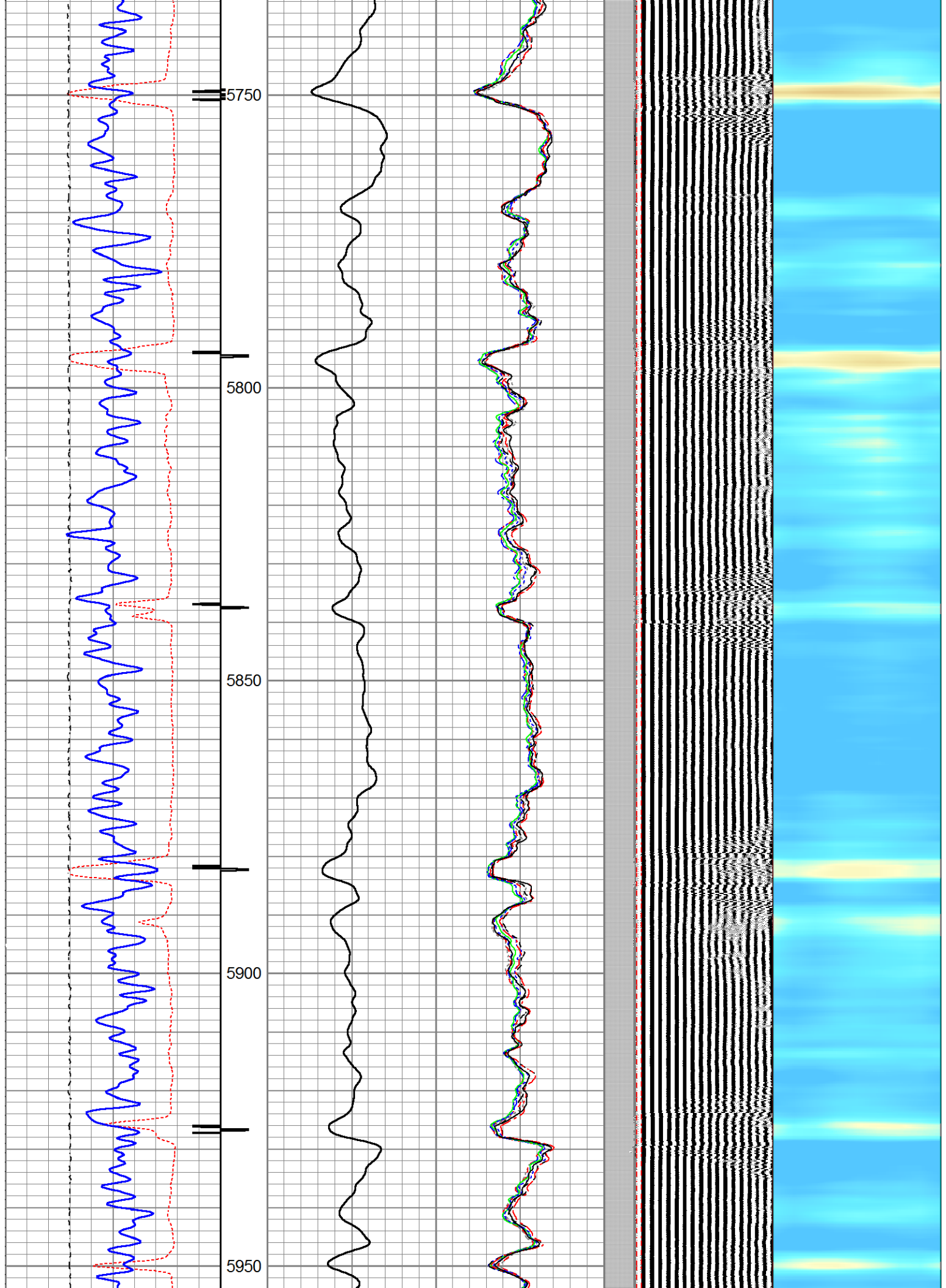


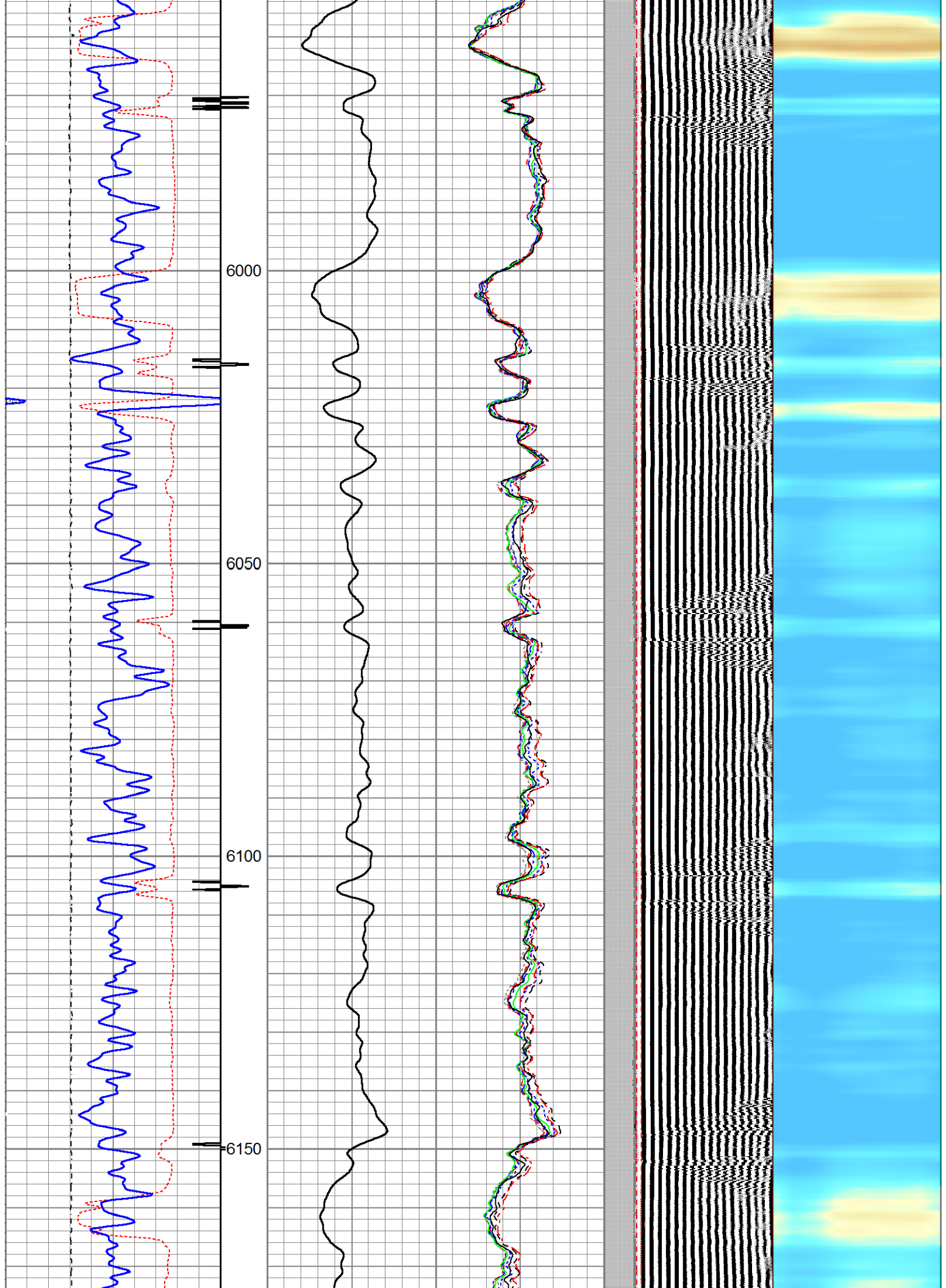


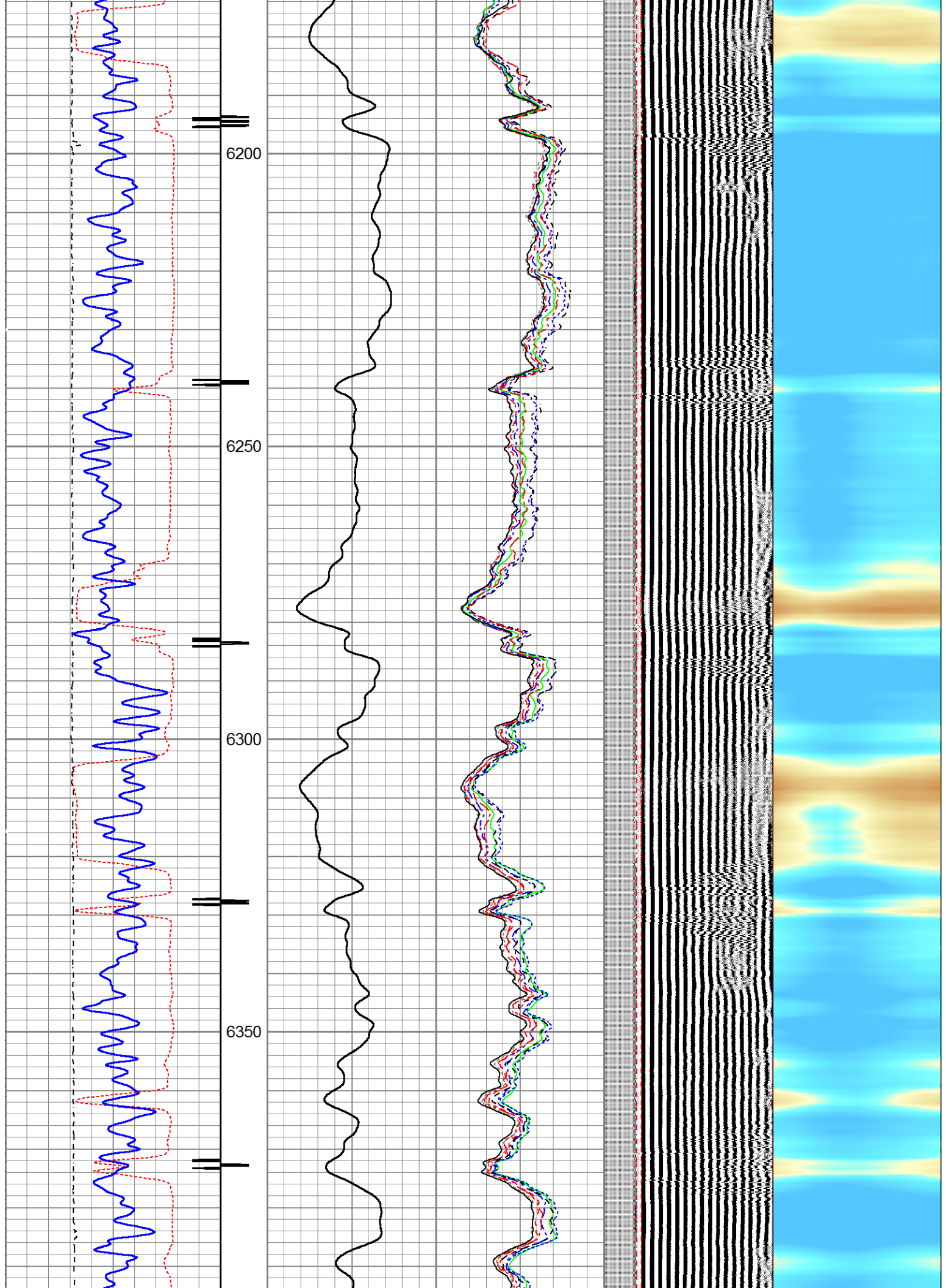


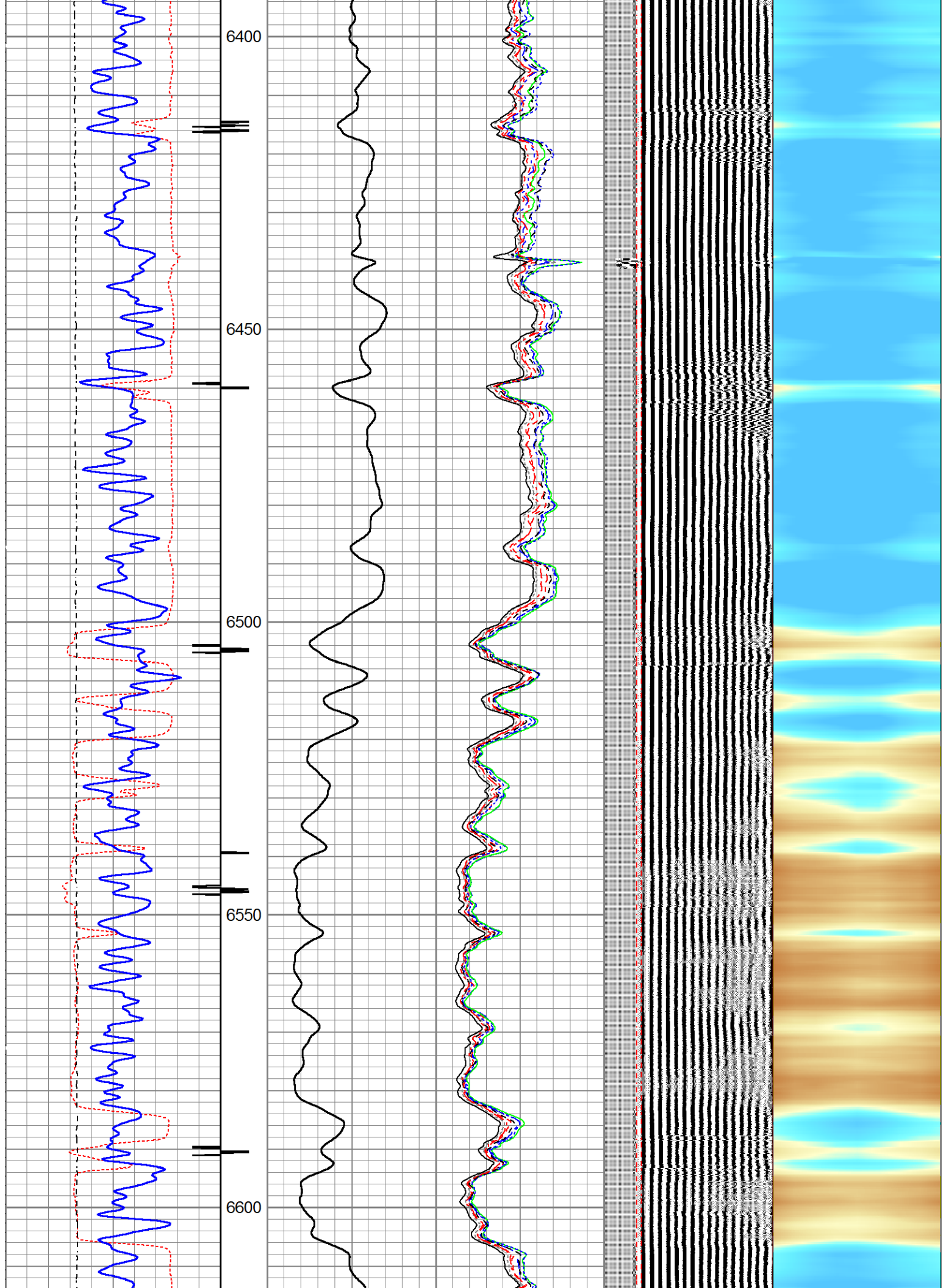


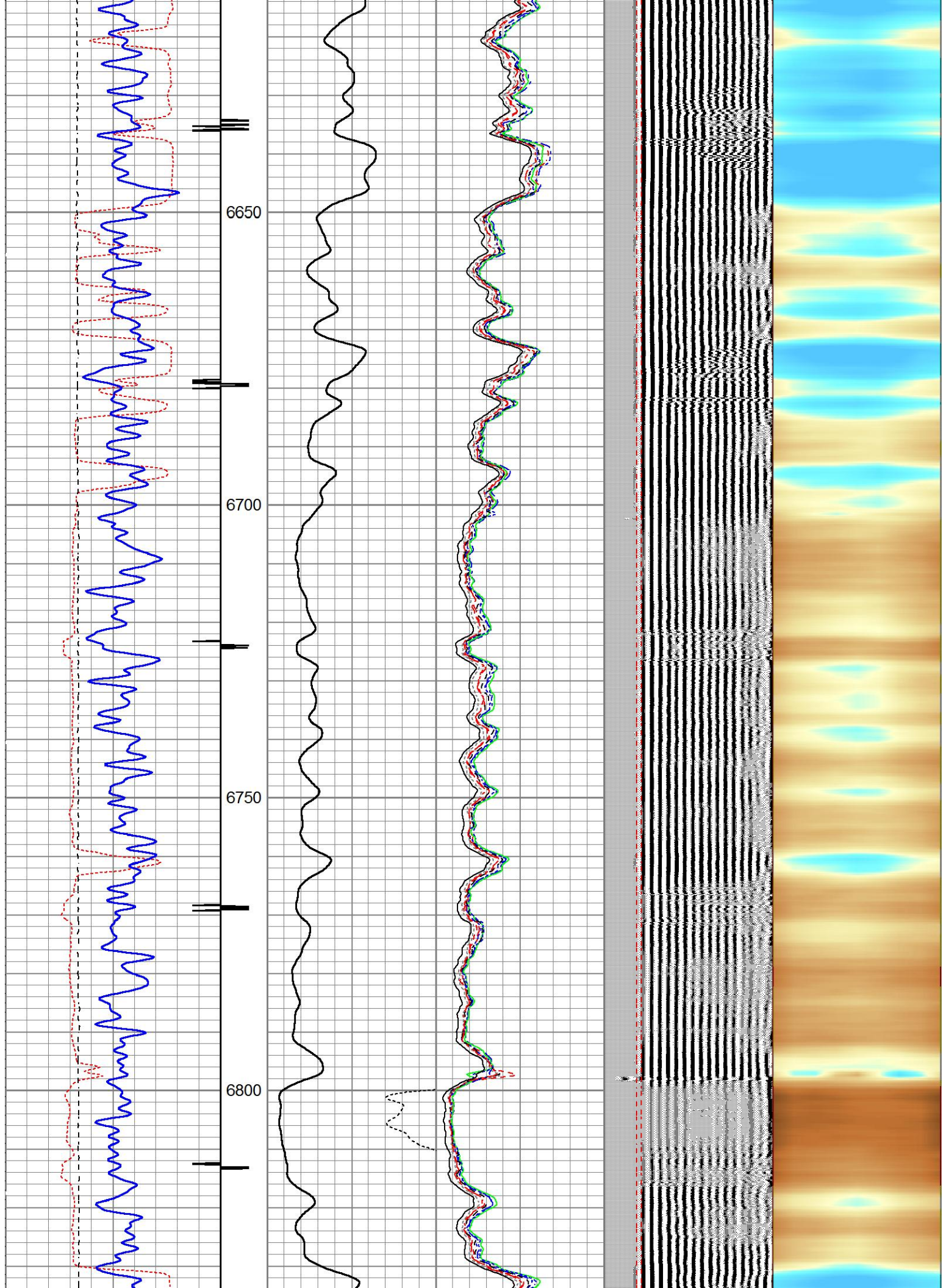


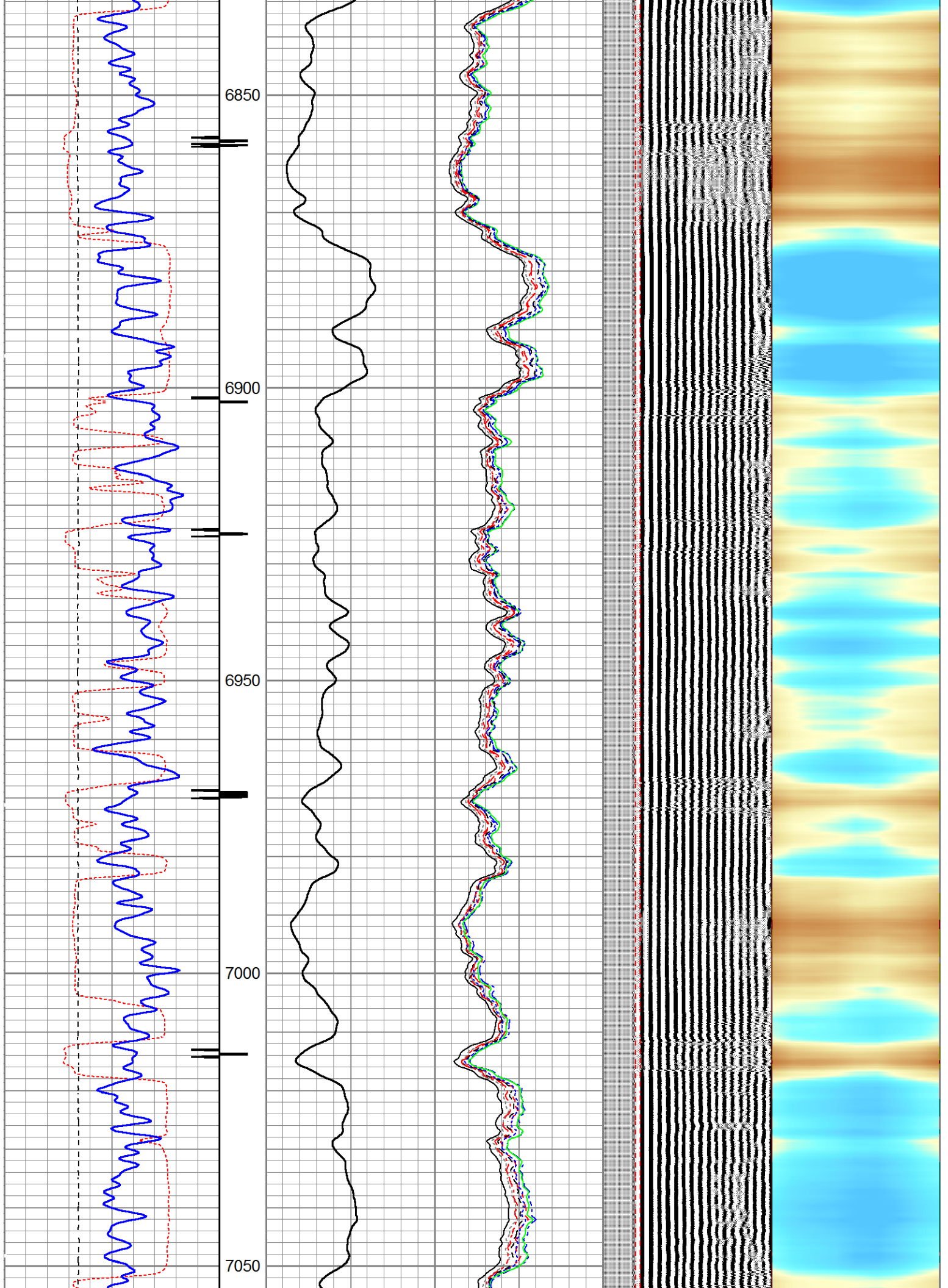


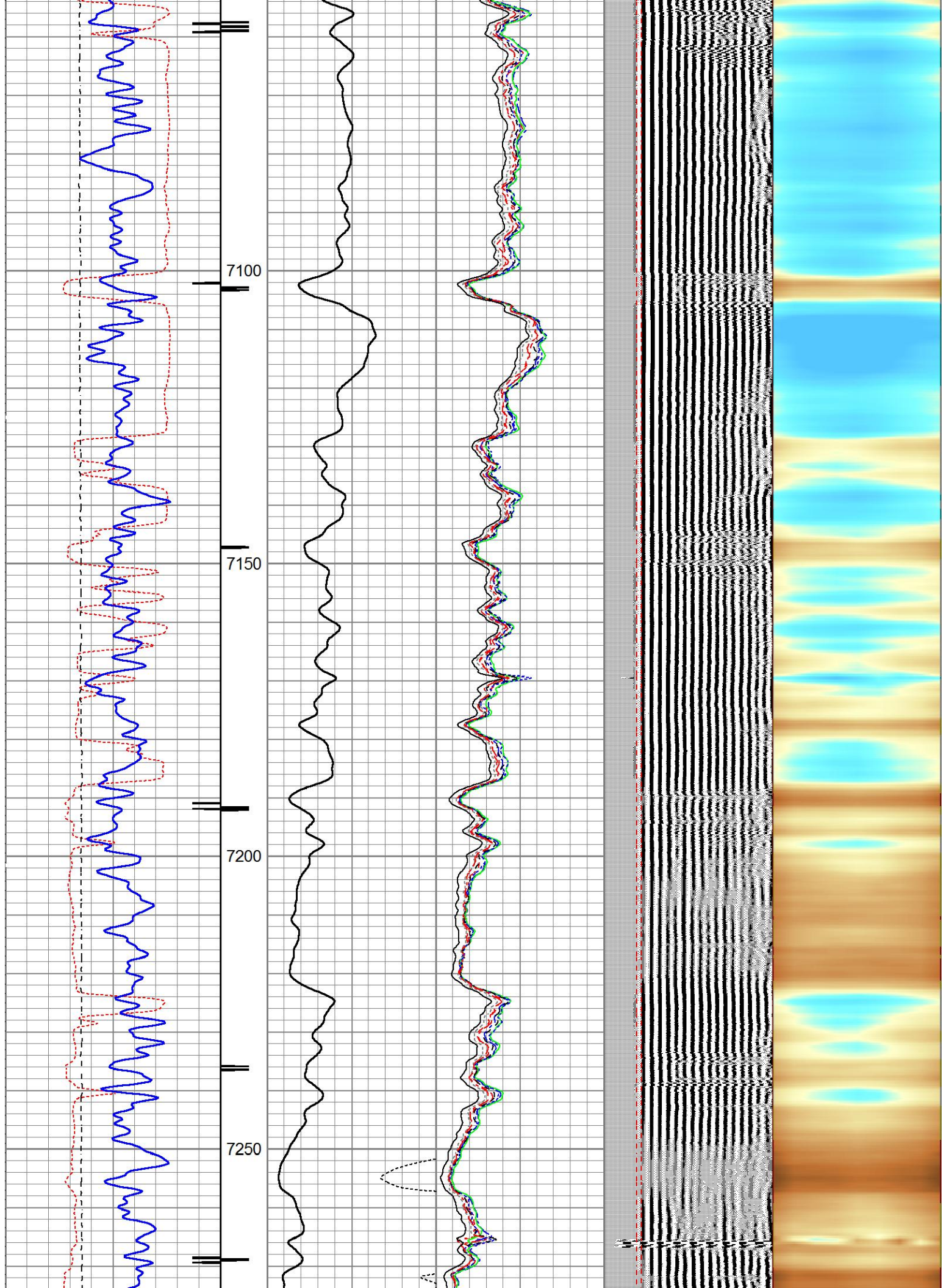


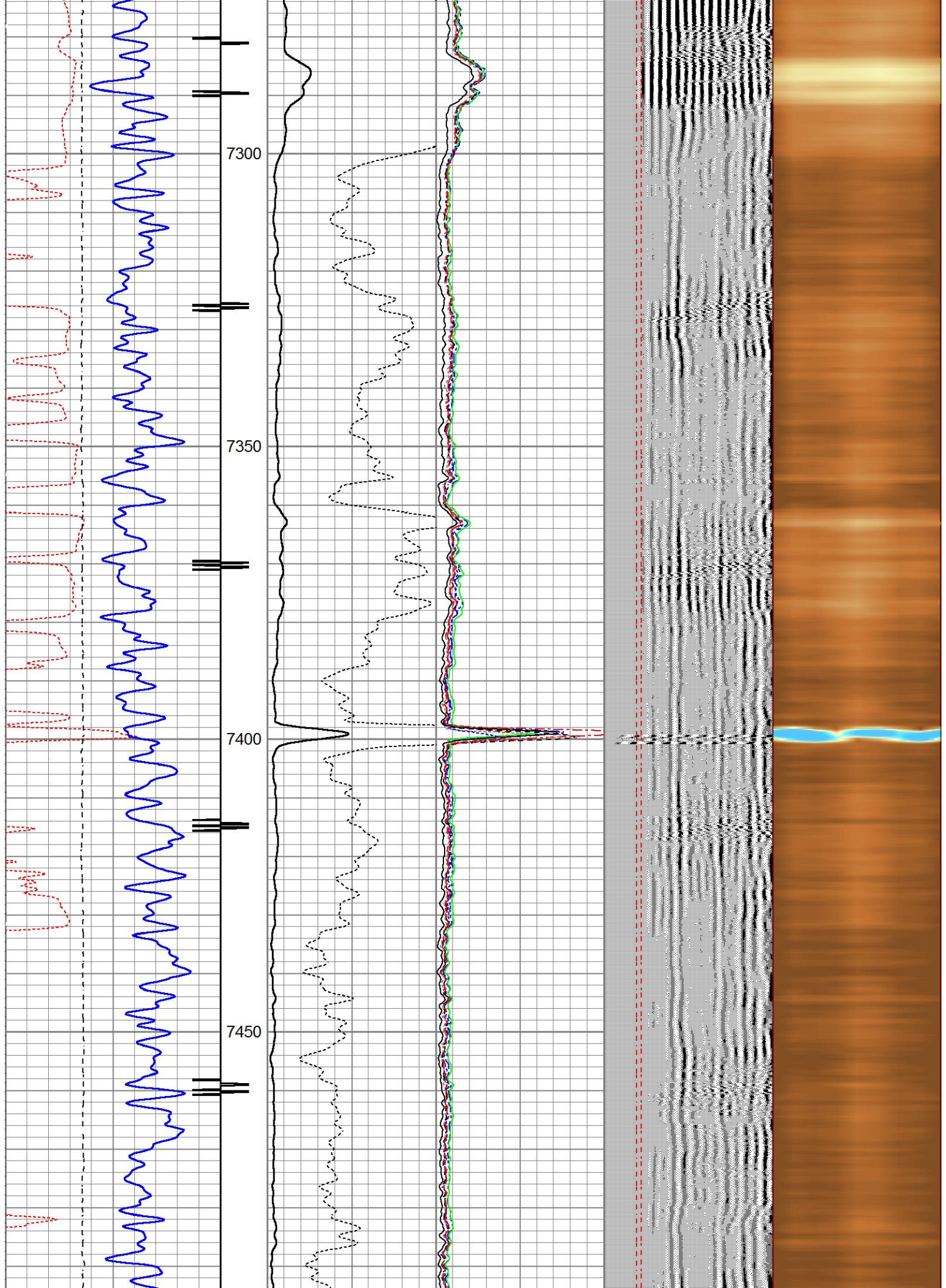


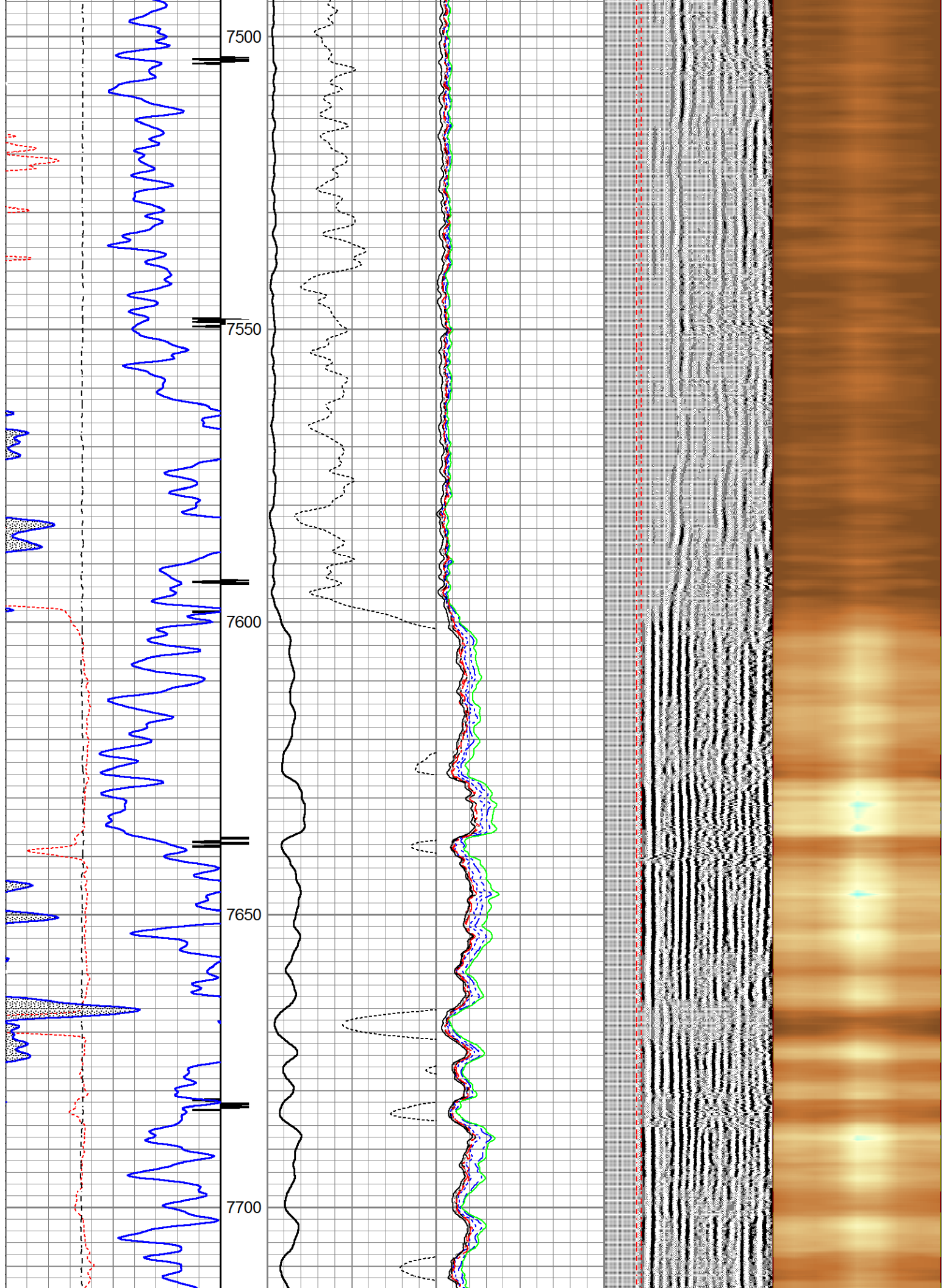


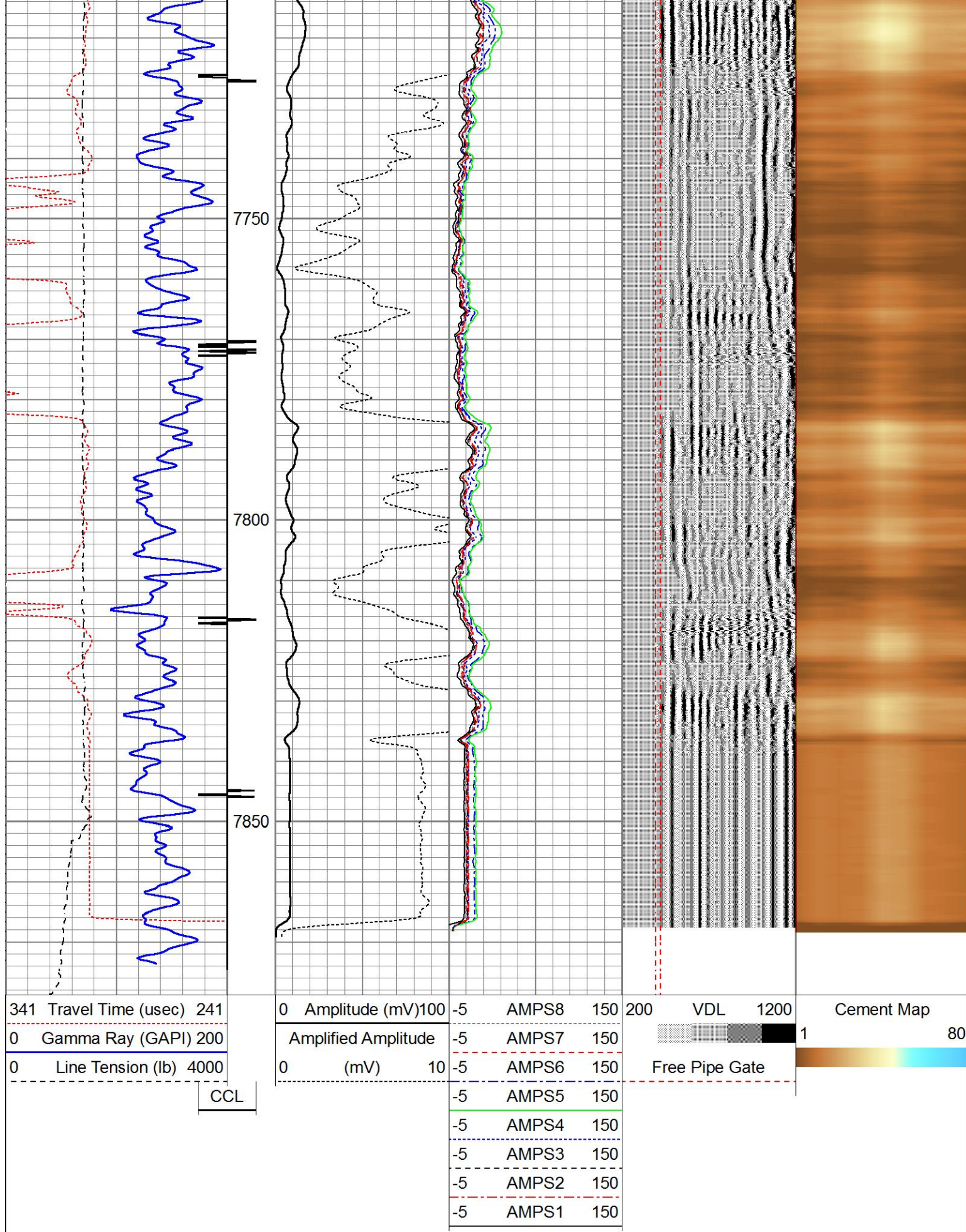












Repeat Pass (0) PSI

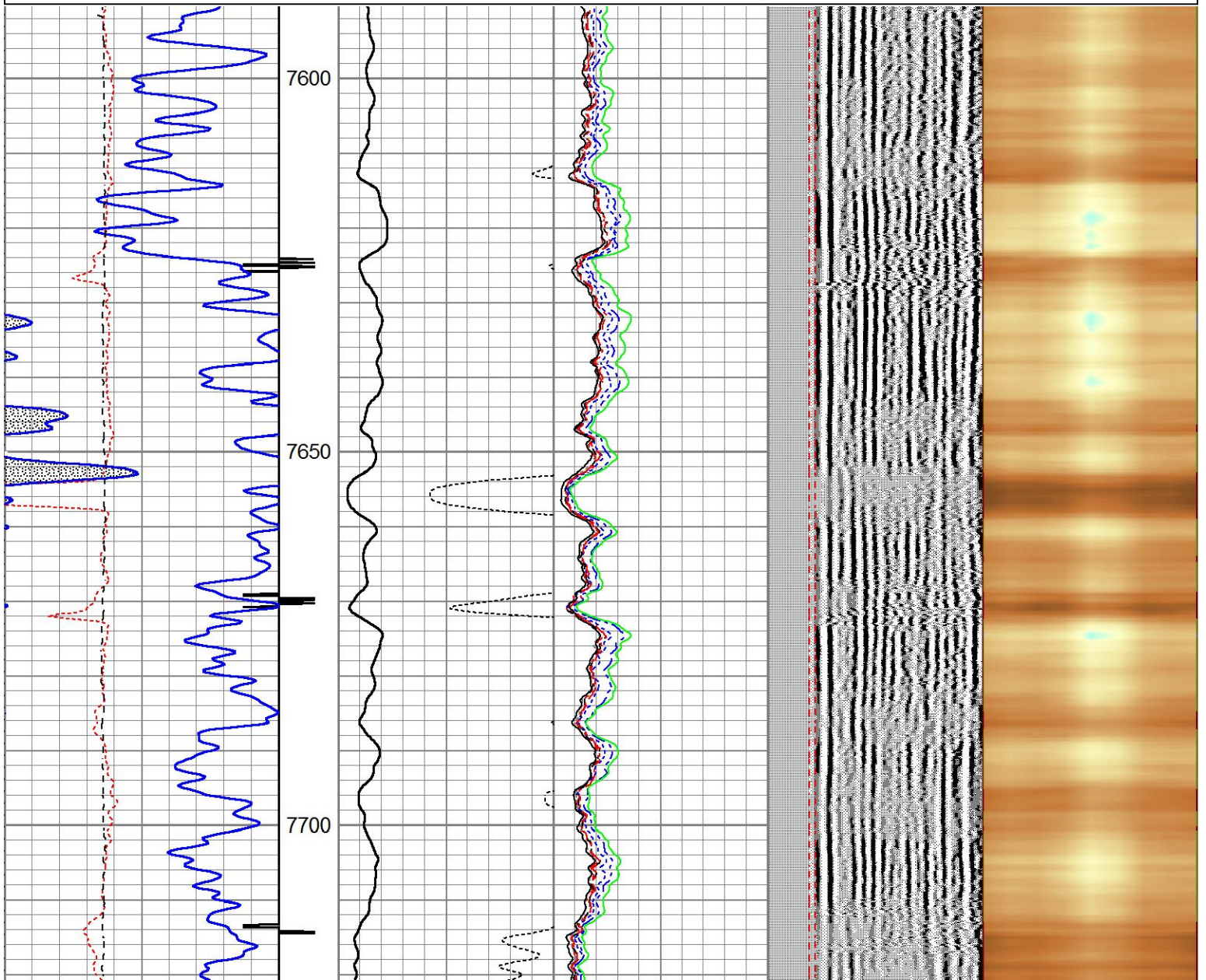
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 Dataset Pathname Shook3-10-4NBH/run1/repeat1
 Presentation Format scbl5_5
 Dataset Creation Mon Mar 05 03:53:23 2018
 Charted by Depth in Feet scaled 1:240

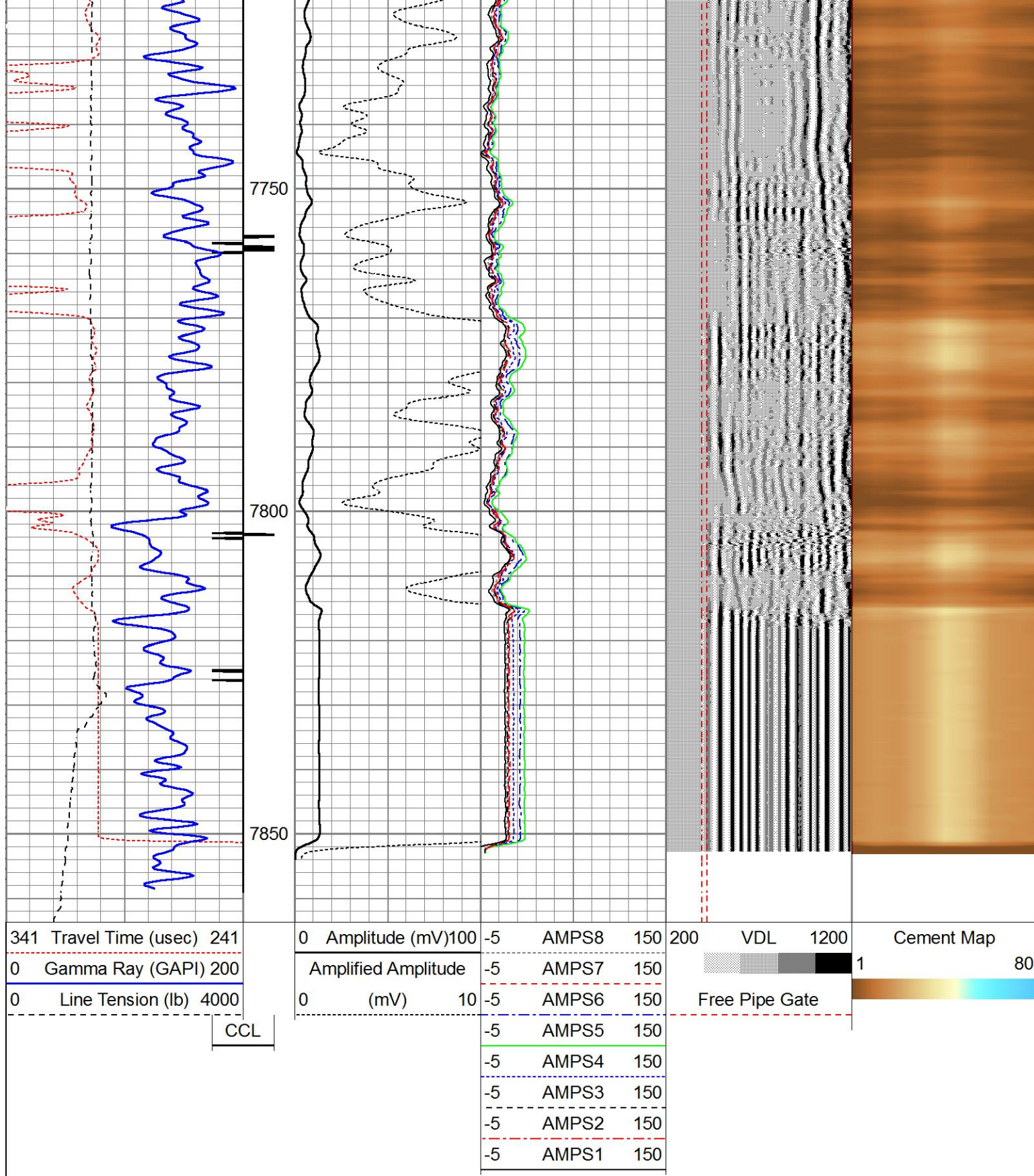
341 Travel Time (usec) 241
 0 Gamma Ray (GAPI) 200
 0 Line Tension (lb) 4000

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 Cement Map 80
 Free Pipe Gate





Repeat Pass (0) PSI

Log Variables

DatabaseE:\Petroshare Corp Shook Pad\DB's\fs0217 ps shook 3-10-4nbh cbl.db
 Dataset field/Shook3-10-4NBH/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	E:\Petroshare Corp Shook Pad\DB's\fs0217 ps shook 3-10-4nbh cbl.db					
Dataset Pathname	Shook3-10-4NBH/run1/main1					
Dataset Creation	Mon Mar 05 03:59:25 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:	2175.623	ft				
Master Calibration, performed Mon Mar 05 03:26:14 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.339	1.000	71.921	210.976	0.361
CAL	0.003	0.832				
5'	0.003	0.279	1.000	71.921	257.153	0.287
SUM						
S1	0.037	0.381	0.000	100.000	290.404	-10.610
S2	0.004	0.353	0.000	100.000	285.824	-1.026
S3	0.006	0.336	0.000	100.000	302.556	-1.699
S4	0.006	0.334	0.000	100.000	305.046	-1.884
S5	0.004	0.337	0.000	100.000	300.161	-1.088
S6	0.004	0.341	0.000	100.000	297.264	-1.277
S7	0.004	0.347	0.000	100.000	291.790	-1.236
S8	0.006	0.365	0.000	100.000	278.147	-1.603
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	0.832	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:		fs0217 ps shook 3-10-4nbh cbl.db: field/Shook3-10-4NBH/run1/main1				
Total length:		21.01 ft				
Total weight:		201.00 lb				
O.D.:		2.75 in				

Company	Petroshare Corp				
Well	SHOOK 3-10-4NBH				
Field	WATTENBERG				
County	ADAMS		State	COLORADO	
			Radial Cement Bond Gamma Ray CCL Log		