



Radial Cement Bond Gamma Ray / CCL

Company Whiting Oil & Gas Corp
Well Horsetail 07E-1836
Field Wild Cat
County Weld State Colorado

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Field Wild Cat
County Weld
State Colorado

Location: API #: 05-123-41646-0000 Other Services
SHL: 2459' FNL & 860' FWL NW/NW
SEC 7 TWP 10N RGE 57W
Permanent Datum GL Elevation 4926'
Log Measured From KB @ 21' above GL D.F. 4946'
Drilling Measured From KB G.L. 4926'

Date	10-Mar-2016
Run Number	One
Depth Driller	14145'
Depth Logger	6060'
Bottom Logged Interval	6060'
Top Log Interval	Surface
Open Hole Size	
Type Fluid	Water
Density / Viscosity	~8.3#
Max. Recorded Temp.	Not Recorded
Estimated Cement Top	284'
Time Well Ready	On Arrival
Time Logger on Bottom	15:45
Equipment Number	W-060
Location	Windsor, CO
Recorded By	Ron Wells
Witnessed By	Jeff

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	9 5/8"	36#	Surface	2049'			
Prot. String							
Production String	5"	20#	Surface	TD			
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

This log to be used for primary depth control

Short Joint:
5267-5290'

Calibration Report

Database File: c:\documents and settings\w059\desktop\horsetail 07e-1836.db
Dataset Pathname: pass6
Dataset Creation: Thu Mar 10 15:41:25 2016 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	060109	
Tool Model:	Probe	
Performed:	Mon Jan 26 09:19:58 2009	
Calibrator Value:	185.2	GAPI
Background Reading:	4.8	cps
Calibrator Reading:	200.0	cps
Sensitivity:	0.9487	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	060113_45	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	602.792	ft

Master Calibration, performed Thu Mar 10 09:31:04 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.451	0.000	71.921	159.364	0.000
CAL	0.000	0.559				
5'	0.000	0.422	0.000	71.921	170.322	0.000
SUM						
S1	0.000	0.467	0.000	100.000	213.907	0.000
S2	0.000	0.461	0.000	100.000	217.145	0.000
S3	0.000	0.452	0.000	100.000	221.065	0.000
S4	0.000	0.440	0.000	100.000	227.114	0.000
S5	0.000	0.417	0.000	100.000	239.876	0.000
S6	0.000	0.398	0.000	100.000	251.435	0.000
S7	0.000	0.402	0.000	100.000	248.529	0.000
S8	0.000	0.425	0.000	100.000	235.139	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.559	1.000	0.000

Air Zero Calibration, performed Sat Mar 05 23:34:17 2016:

	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

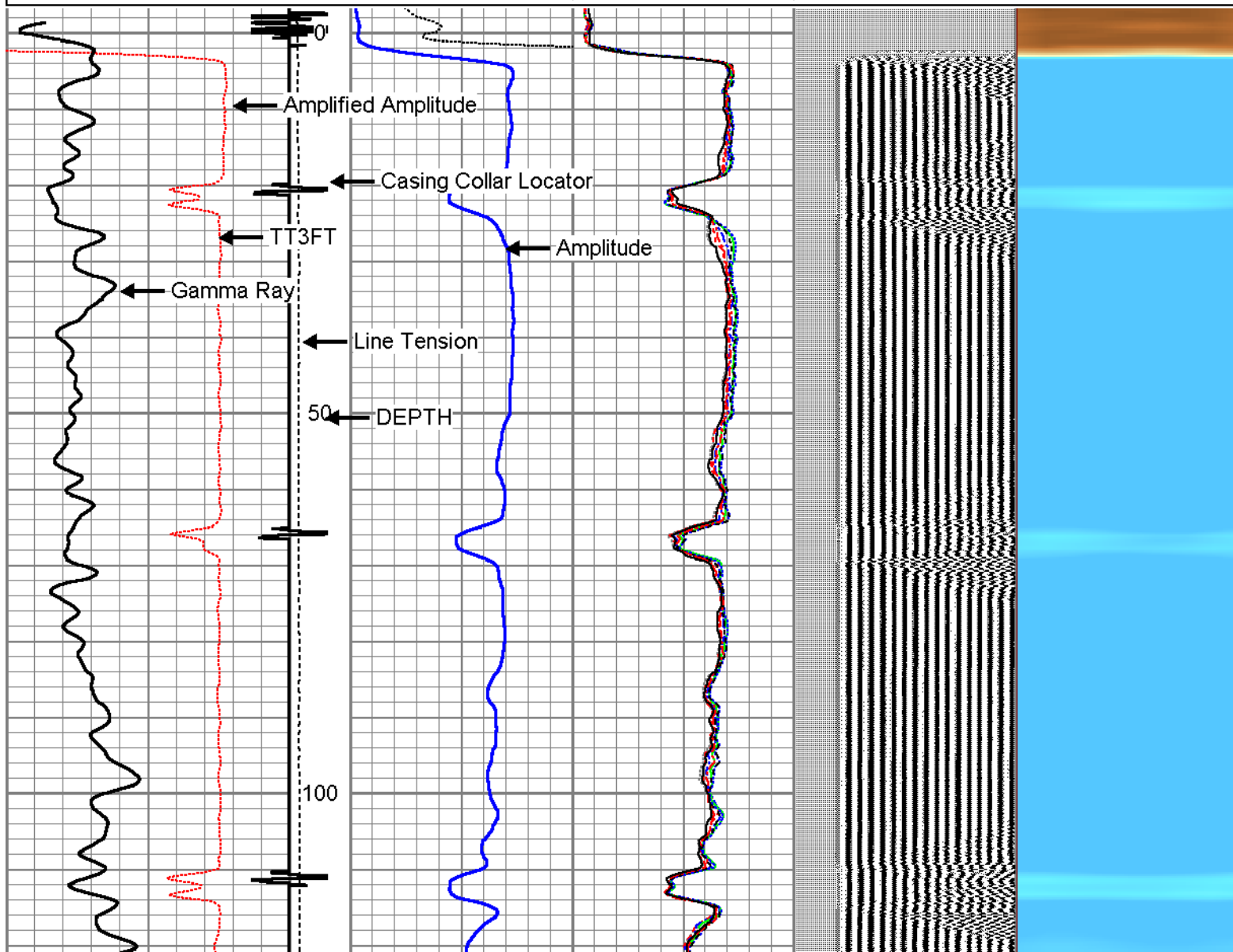
S7
S80.000
0.0000.000
0.0000.000
0.000

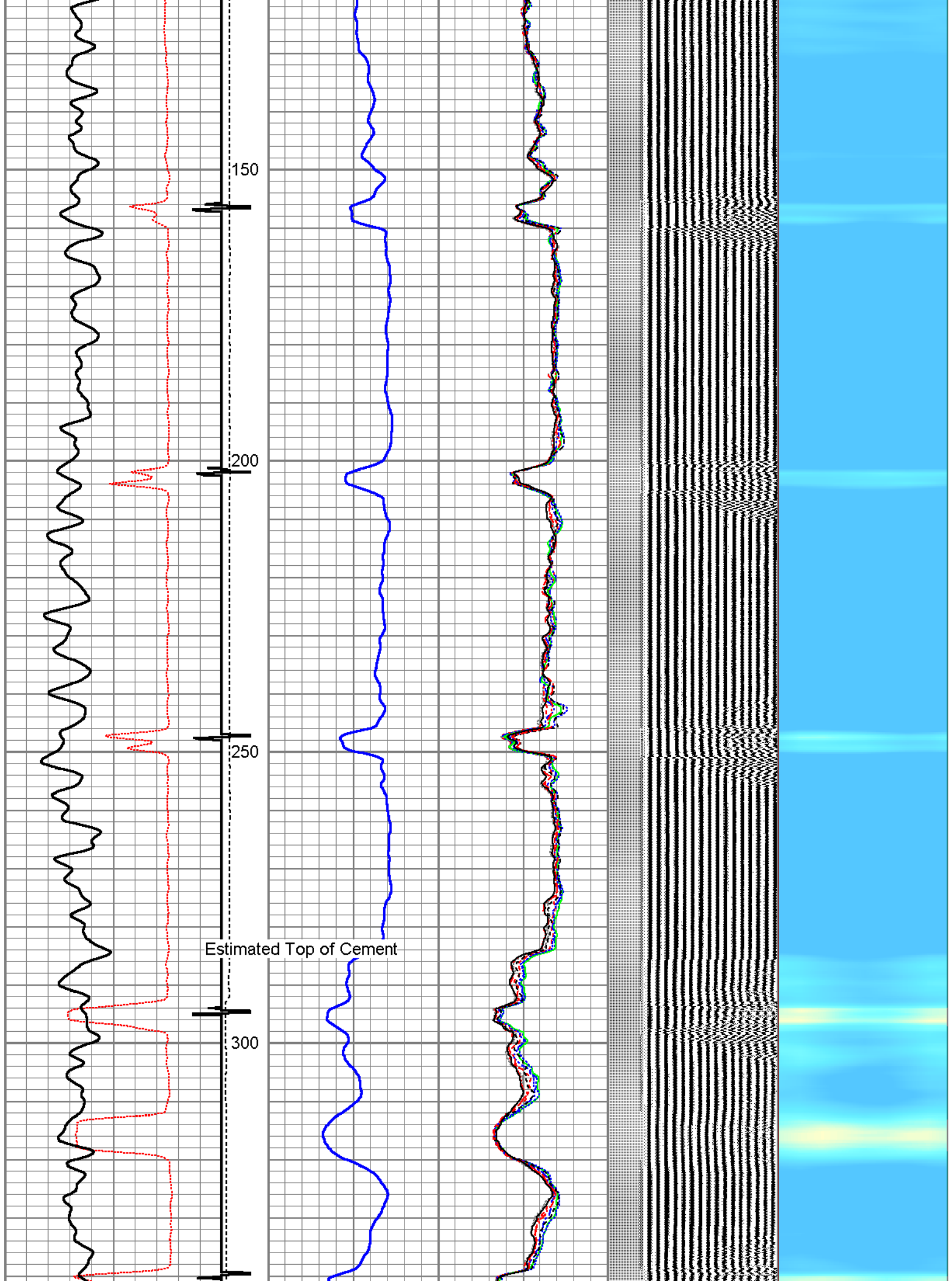
Main Pass

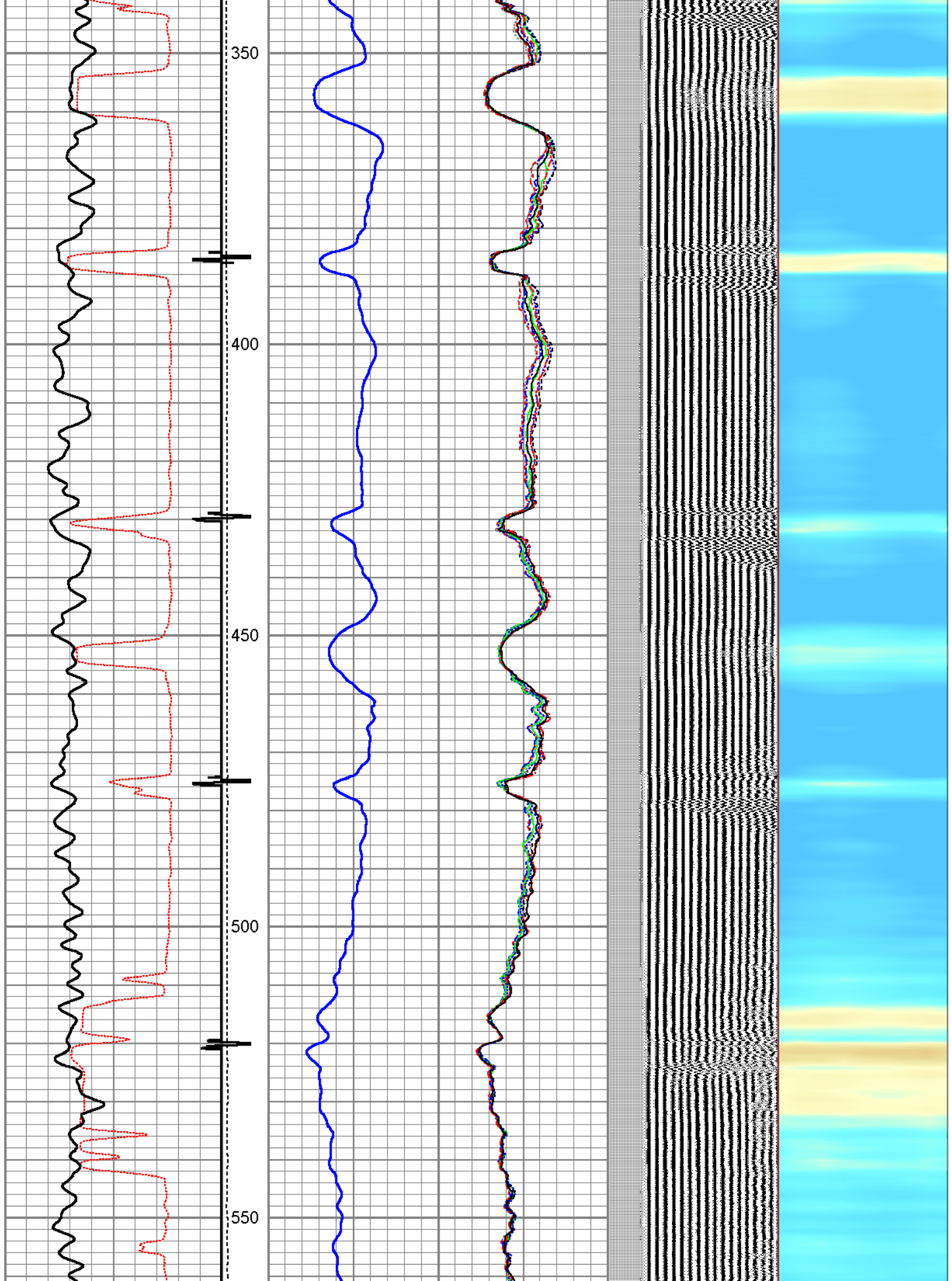
Logged with 1500 psi Surface Pressure

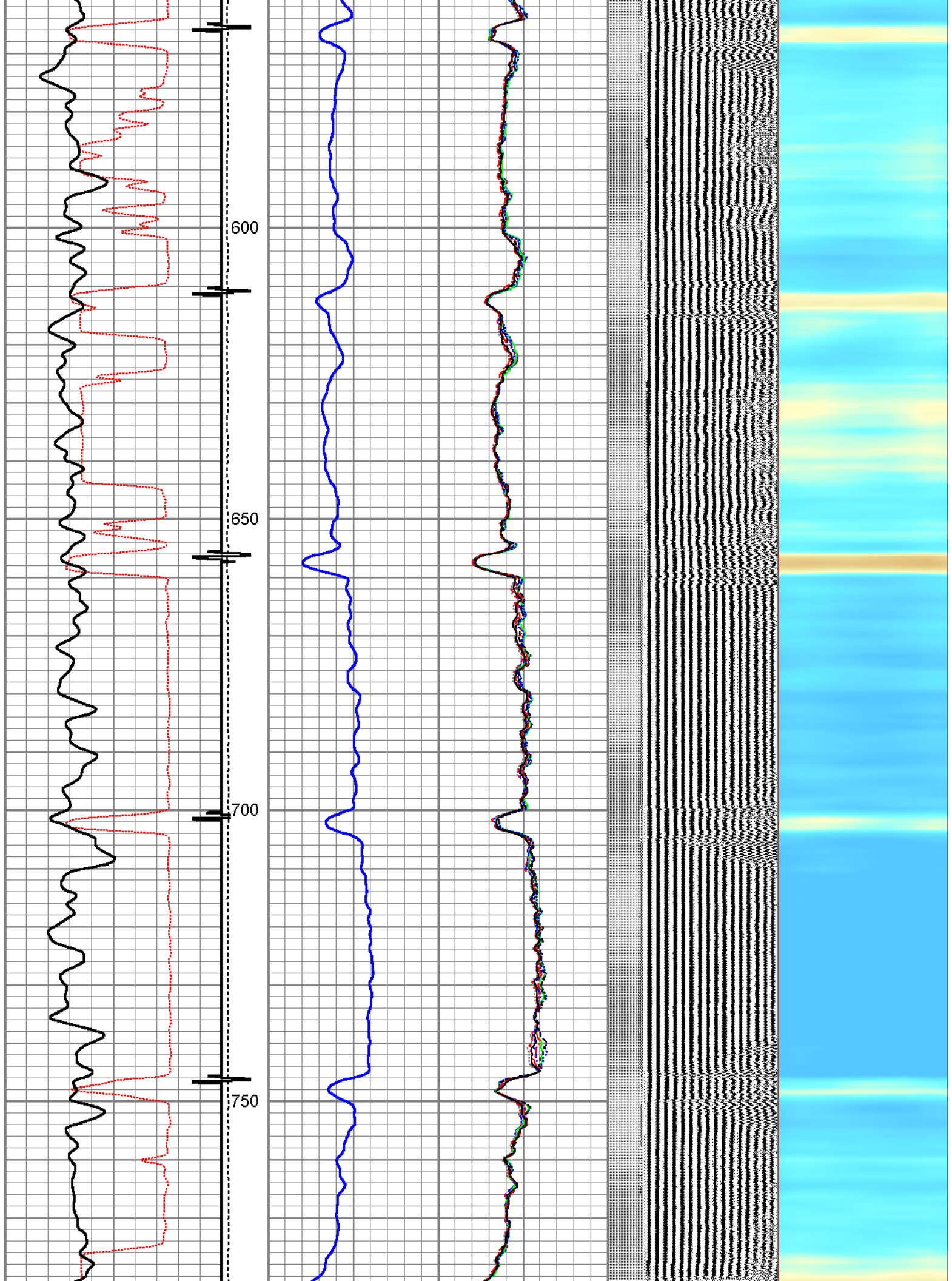
Database File: c:\documents and settings\w059\desktop\horsetail 07e-1836.db
Dataset Pathname: pass6
Presentation Format: rbl55
Dataset Creation: Thu Mar 10 15:41:25 2016 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

343	TT (usec)	243	LTEN (lb)	Amplitude	-5	AMPS2	150	200	VDL	1200	Cement Map
0	GR (GAPI)	150		0	(mV)	100	-5				
			CCL	Amplified Amplitude	-5	AMPS4	150				
			0000	0	(mV)	10	-5	AMPS5	150		
						-5	AMPS6	150			
						-5	AMPS7	150			
						-5	AMPS8	150			
						-5	AMPS1	150			

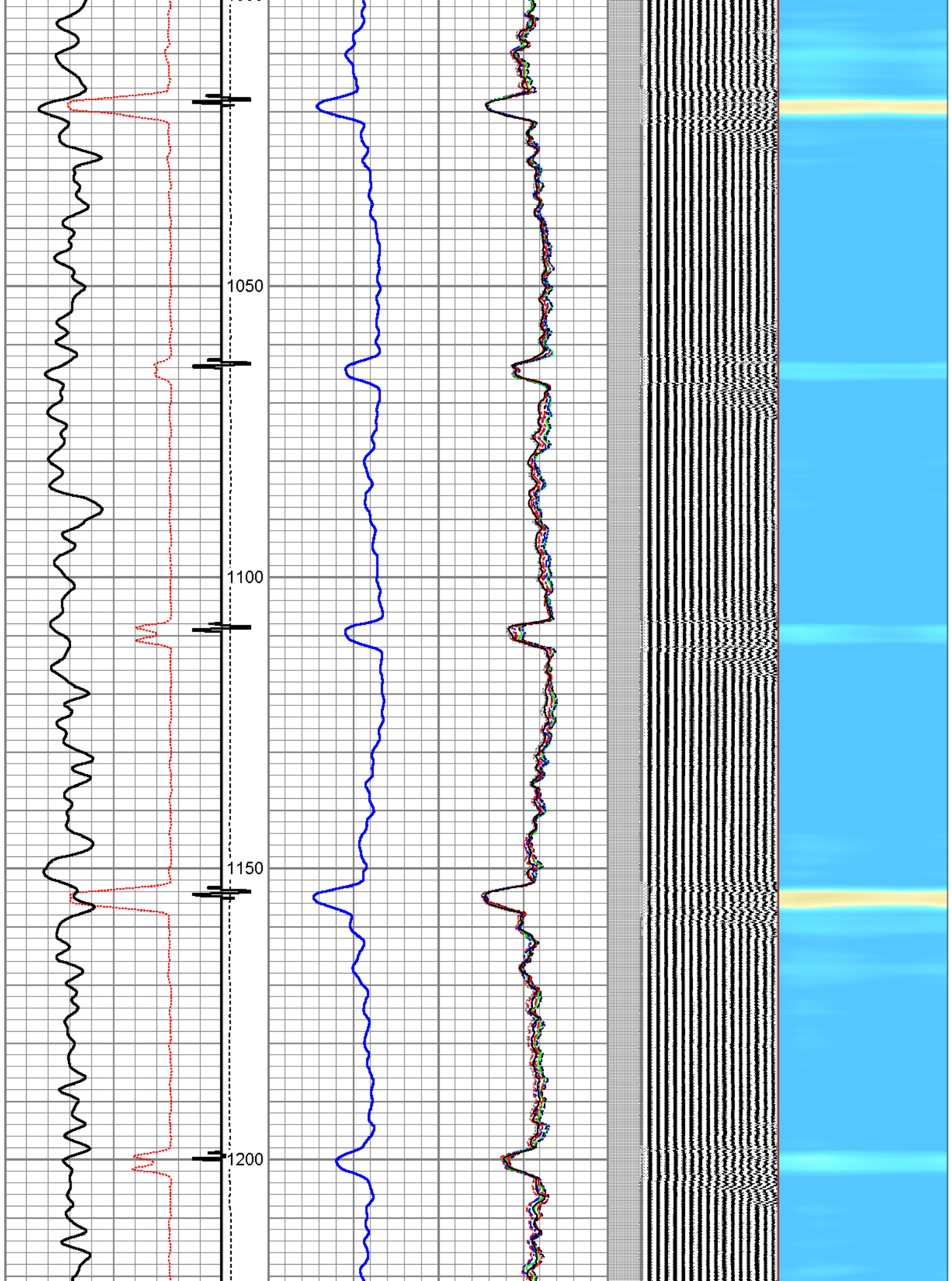


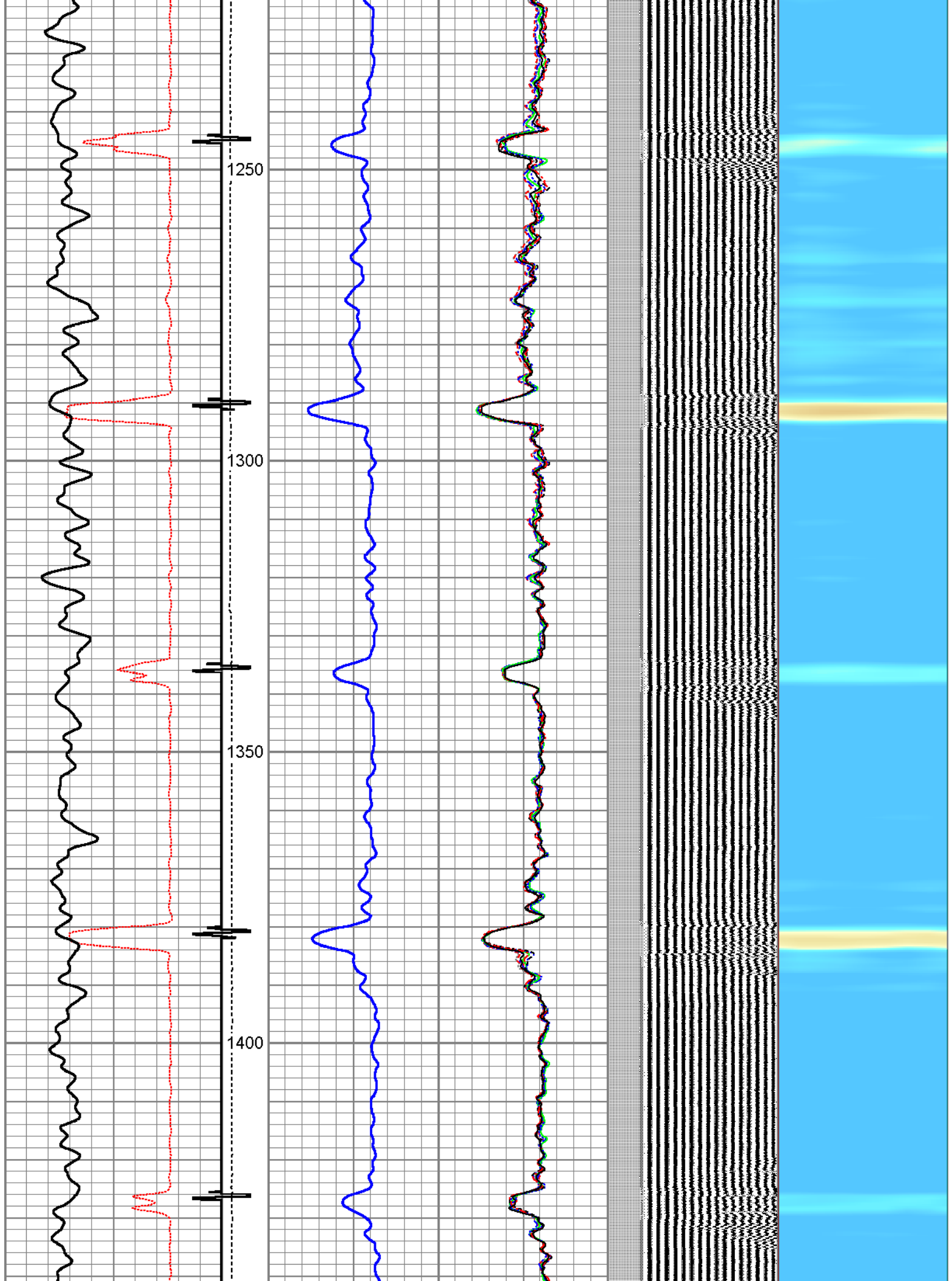


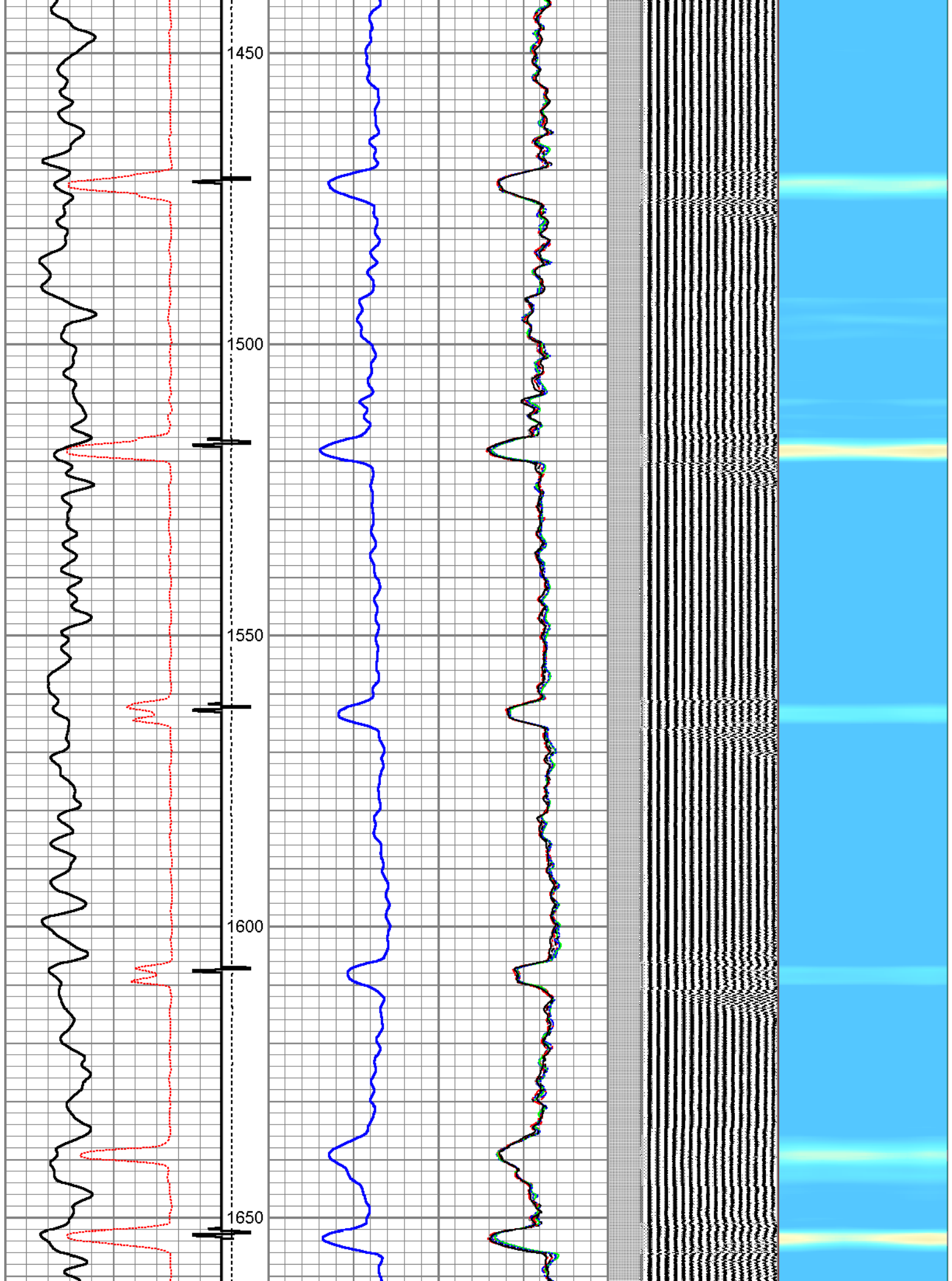


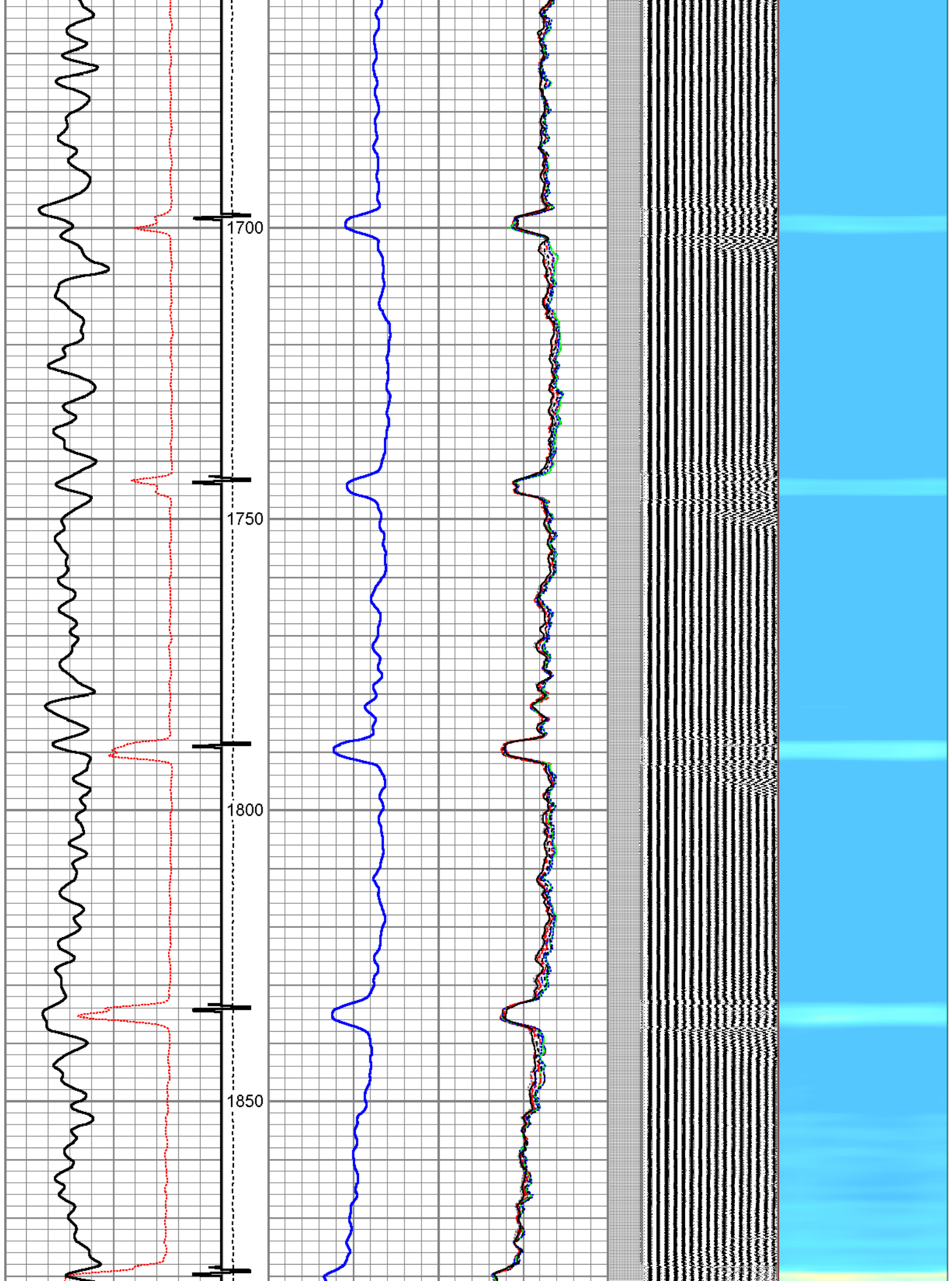


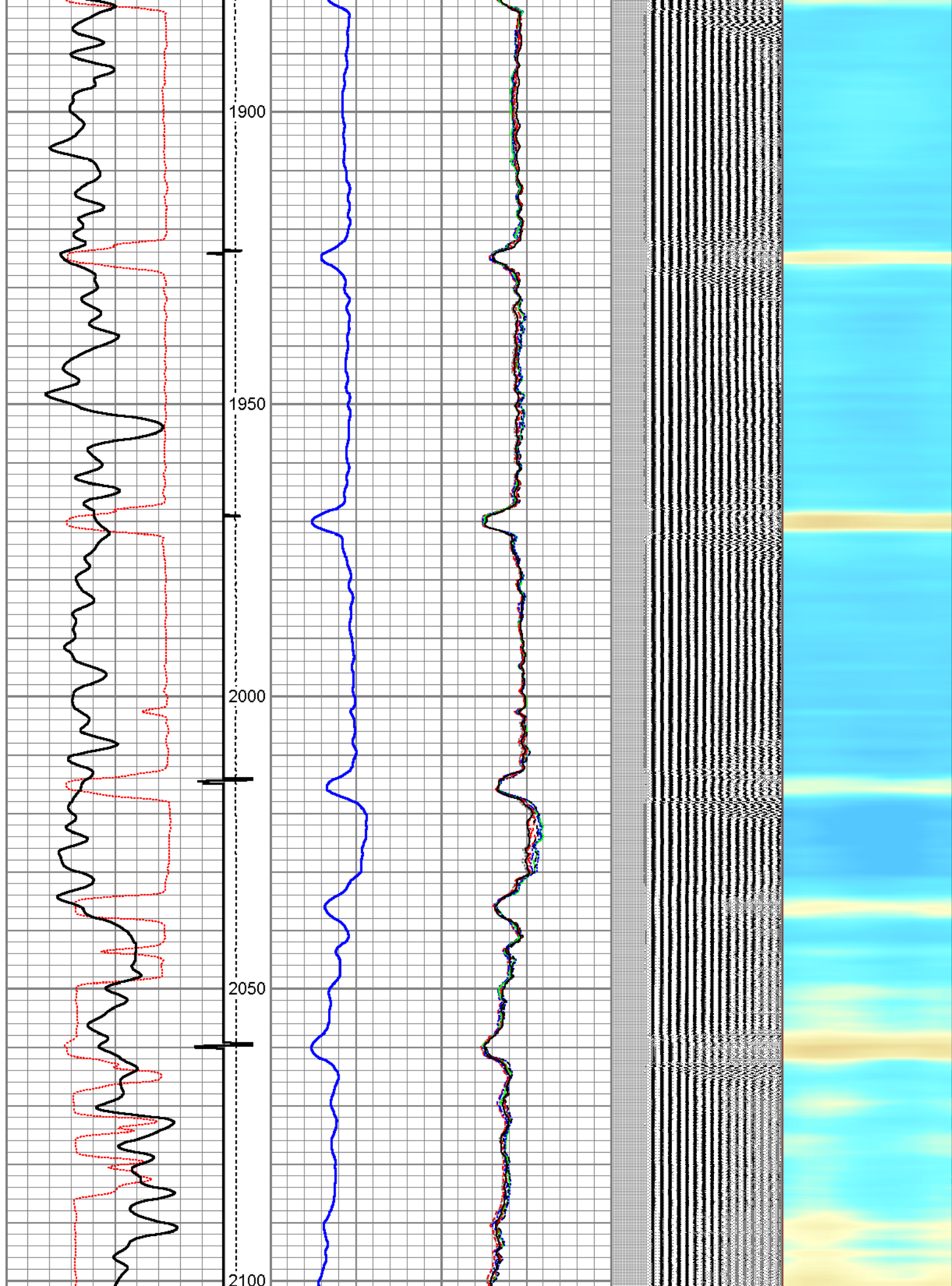


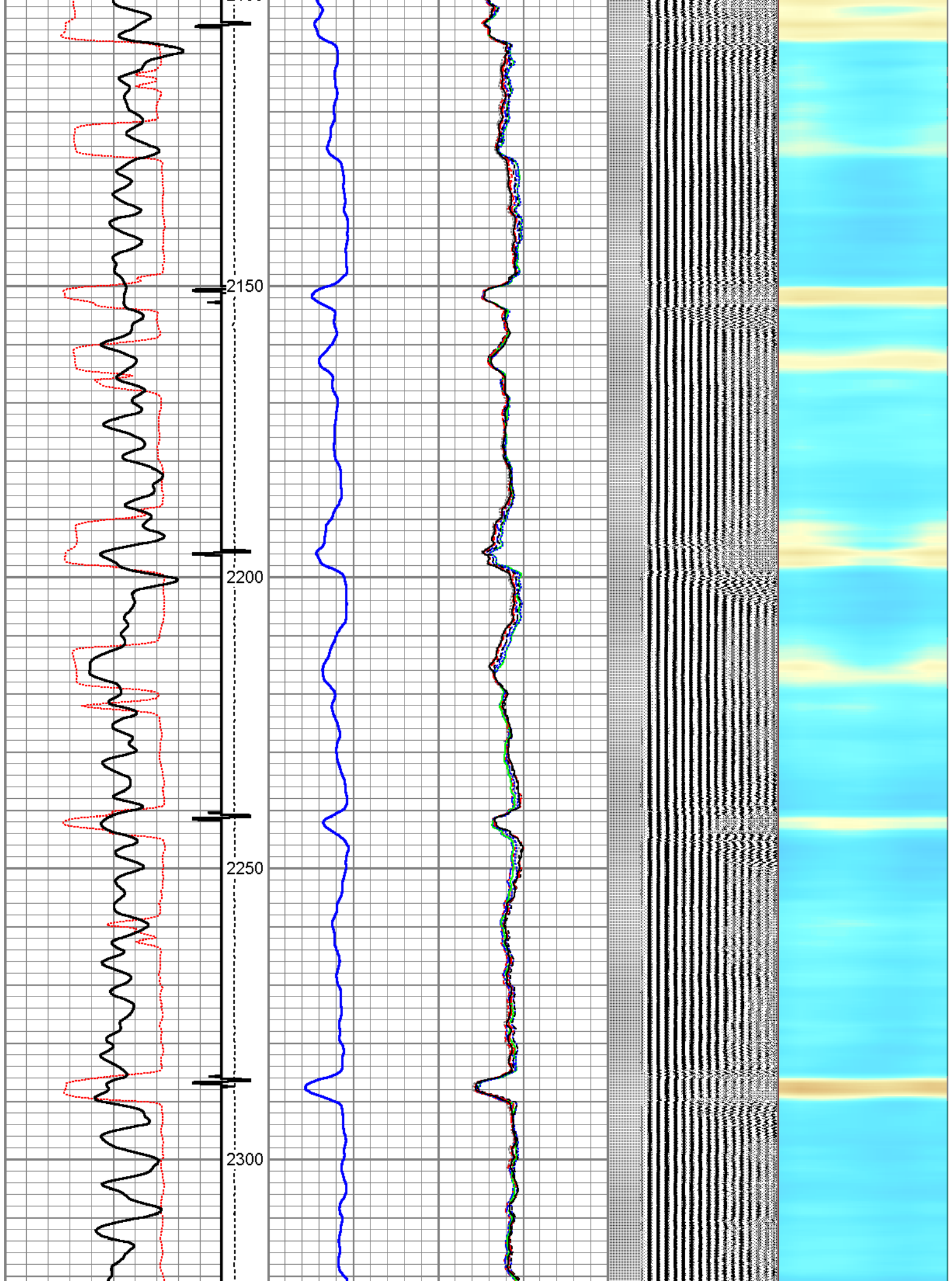


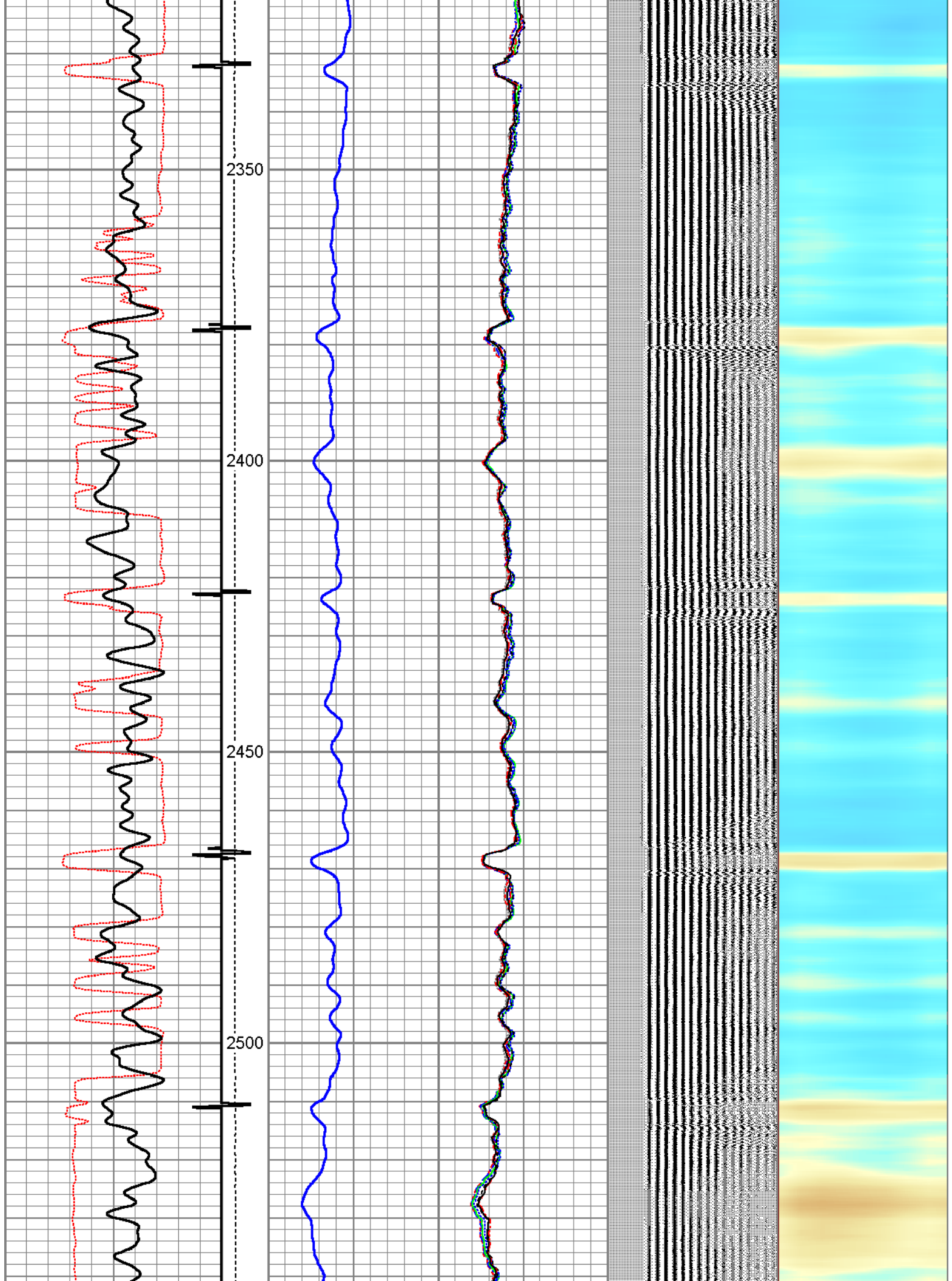


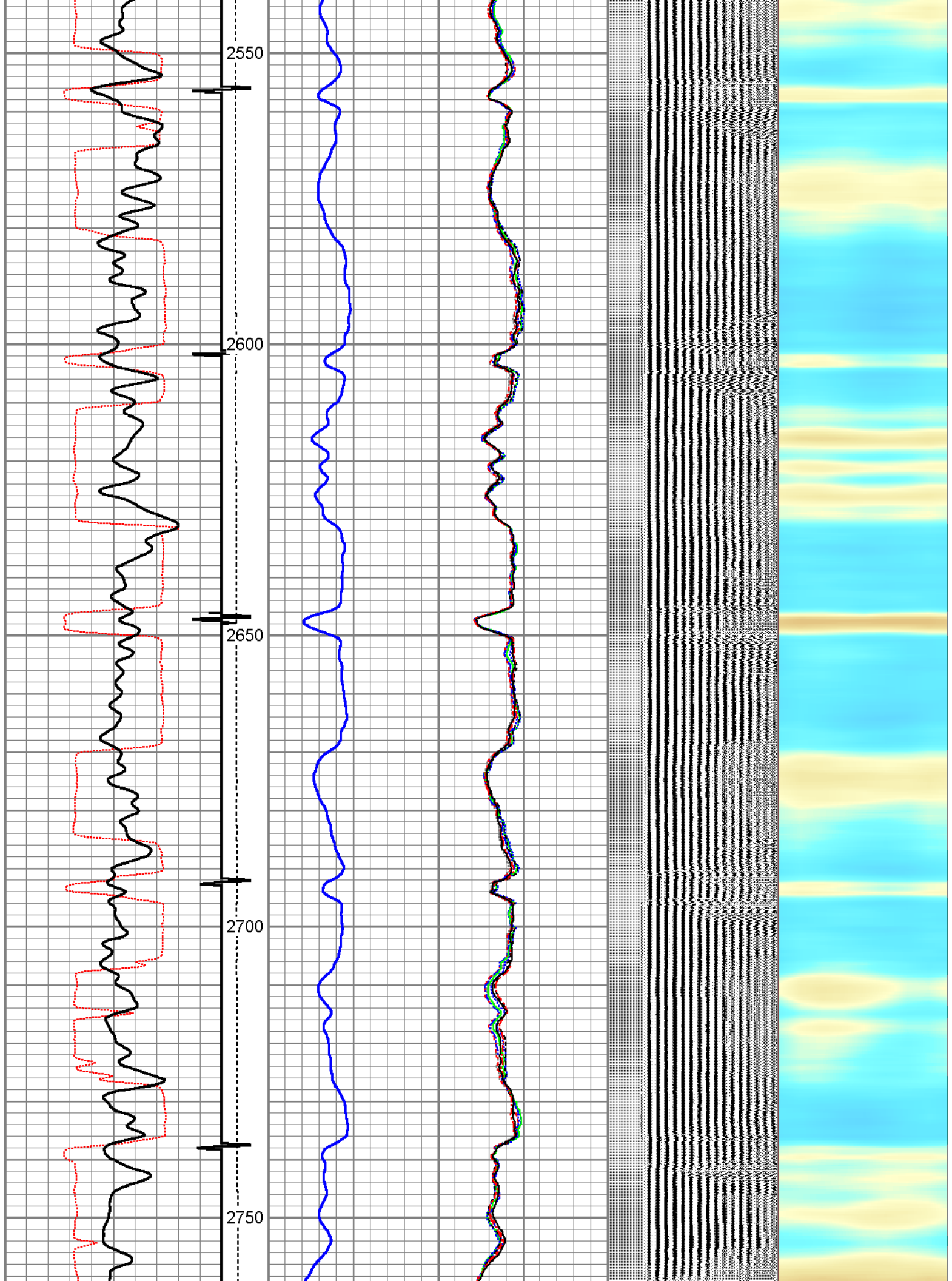


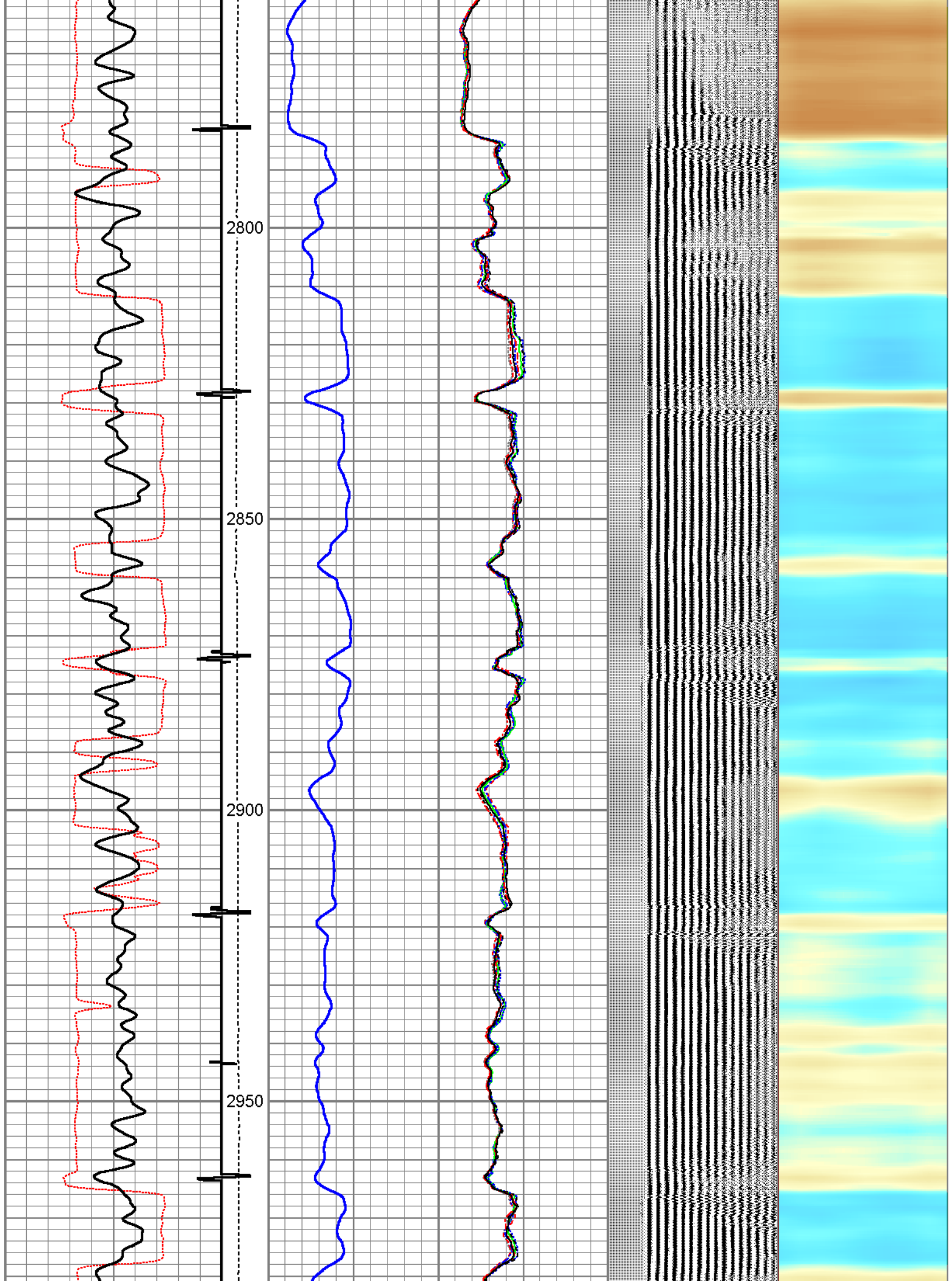


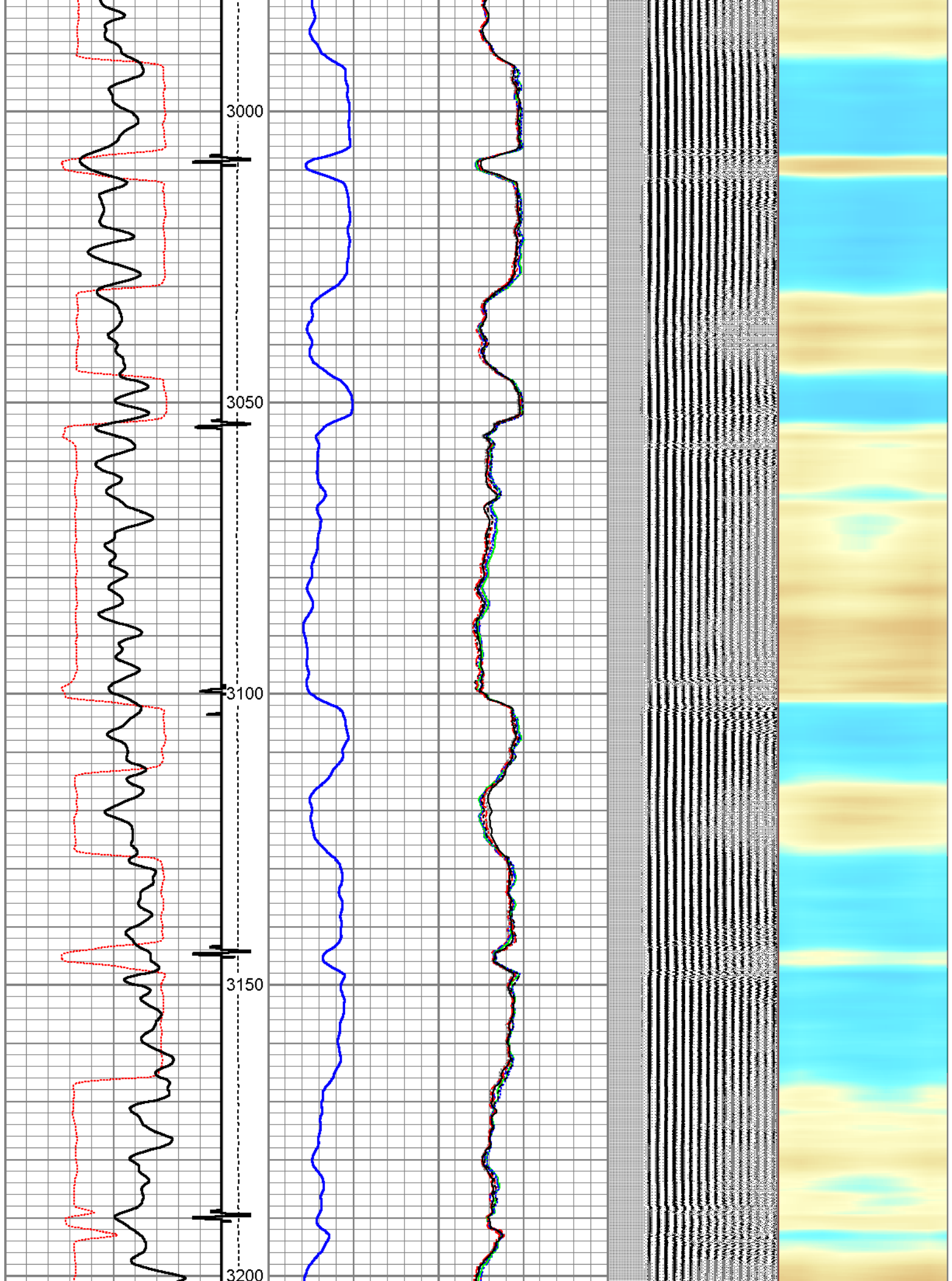


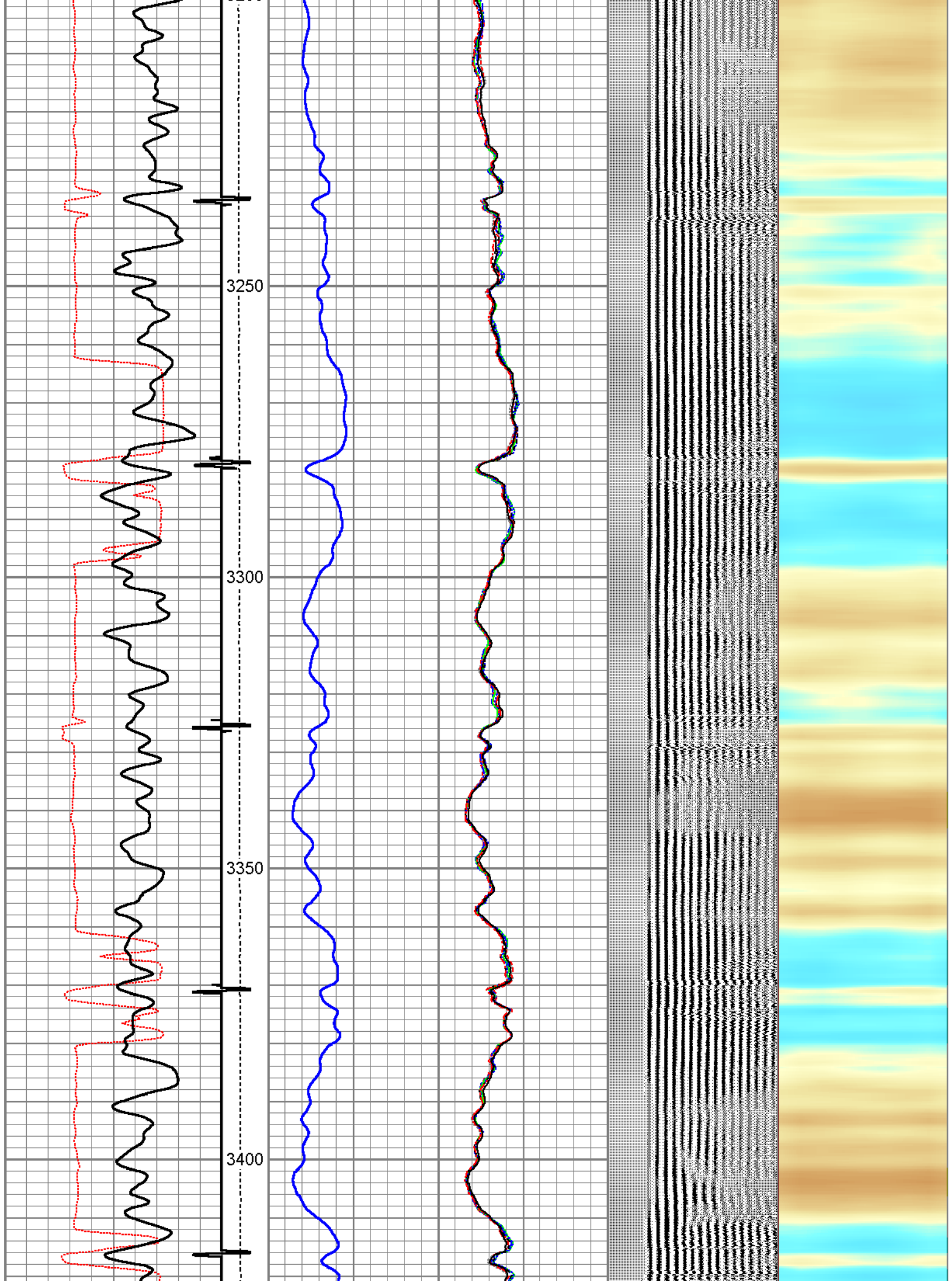


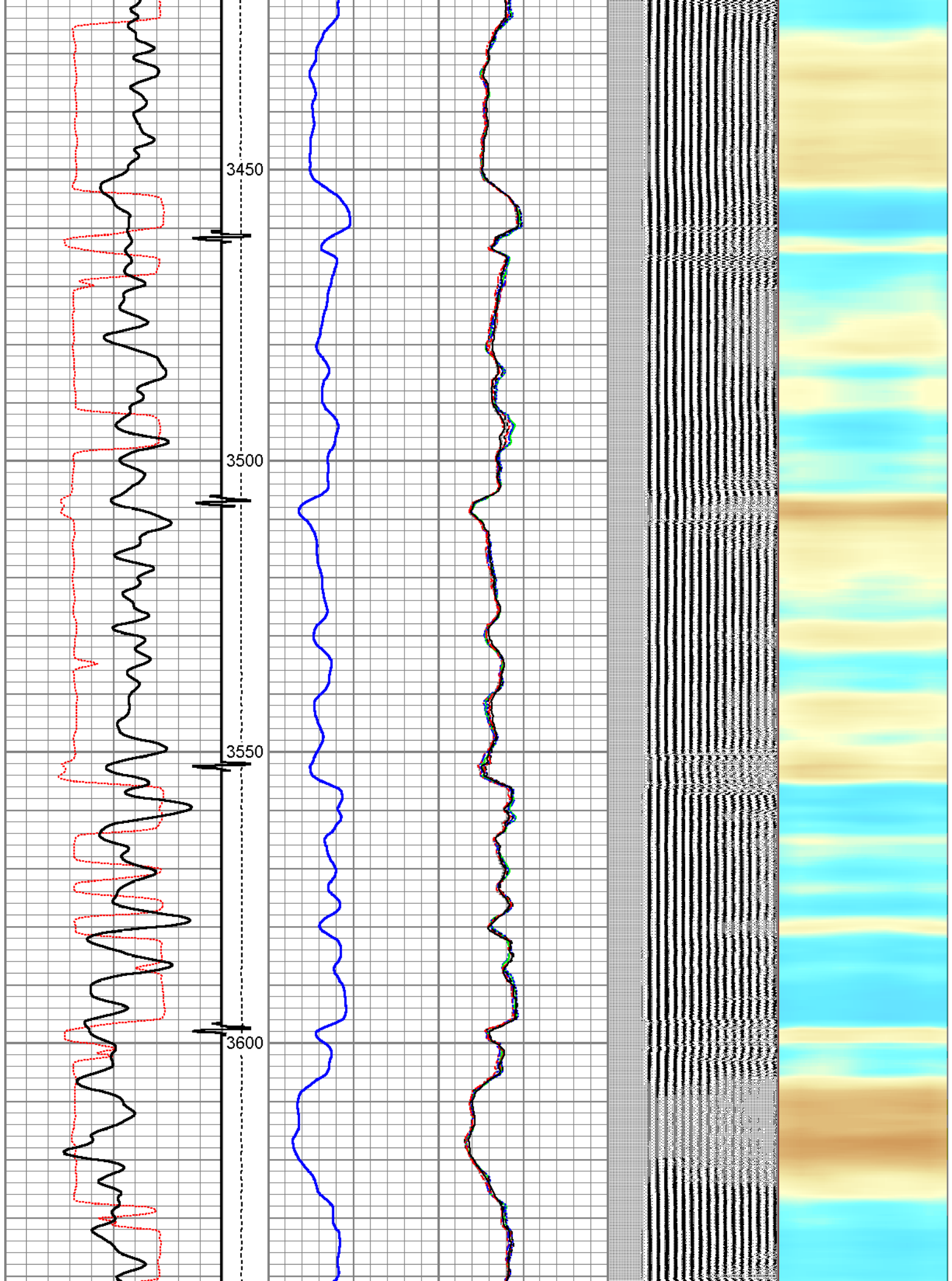


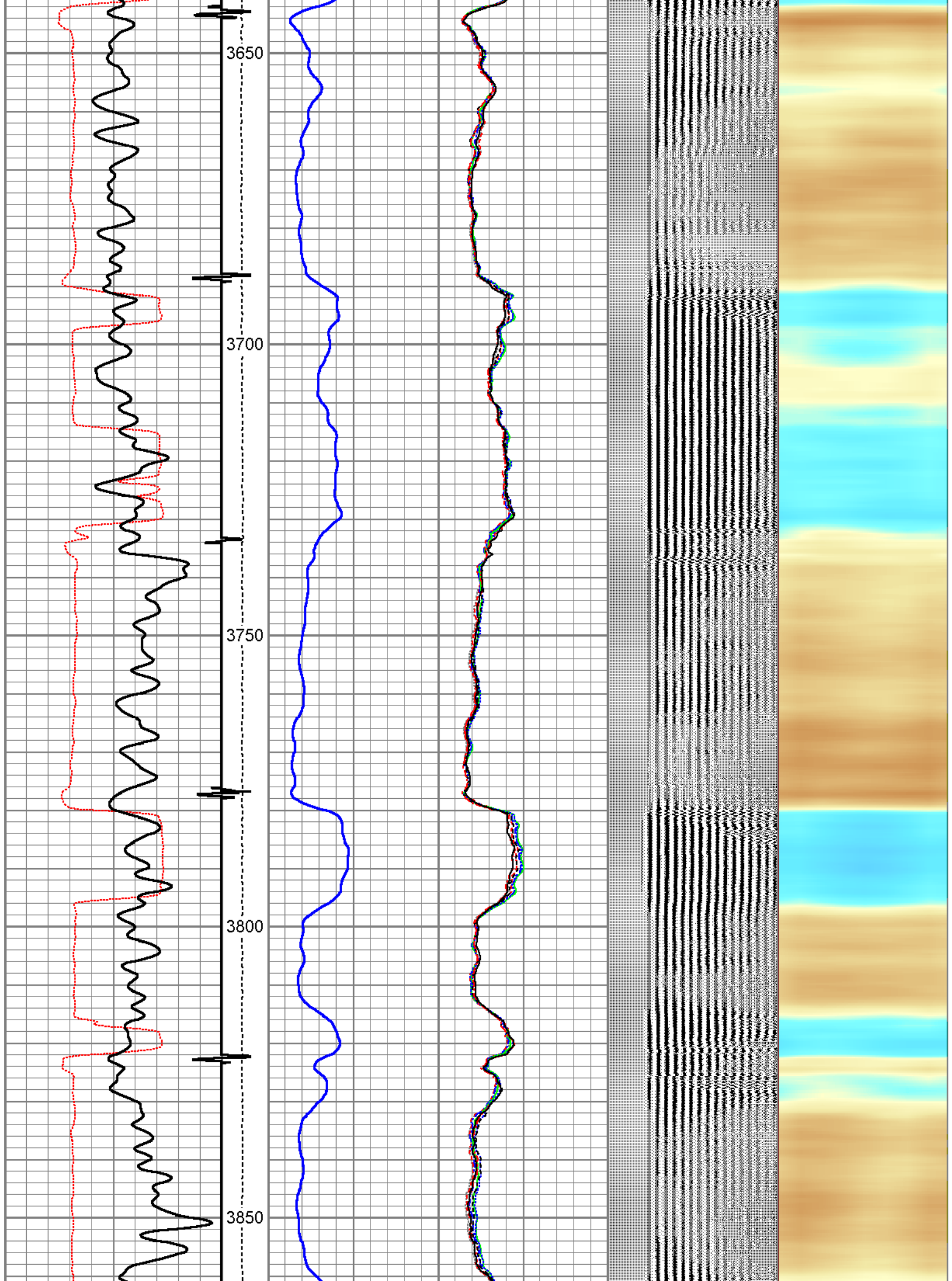


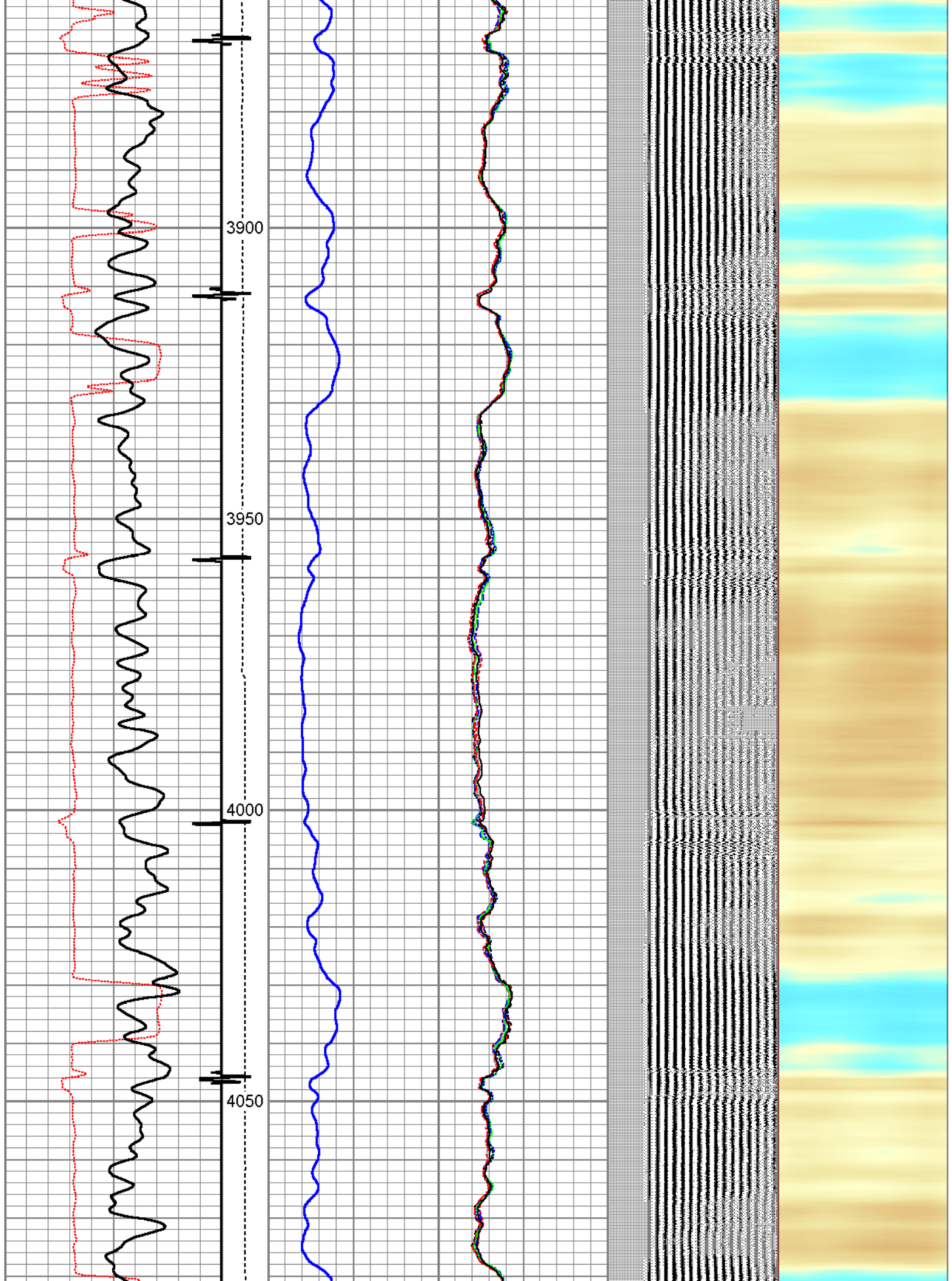


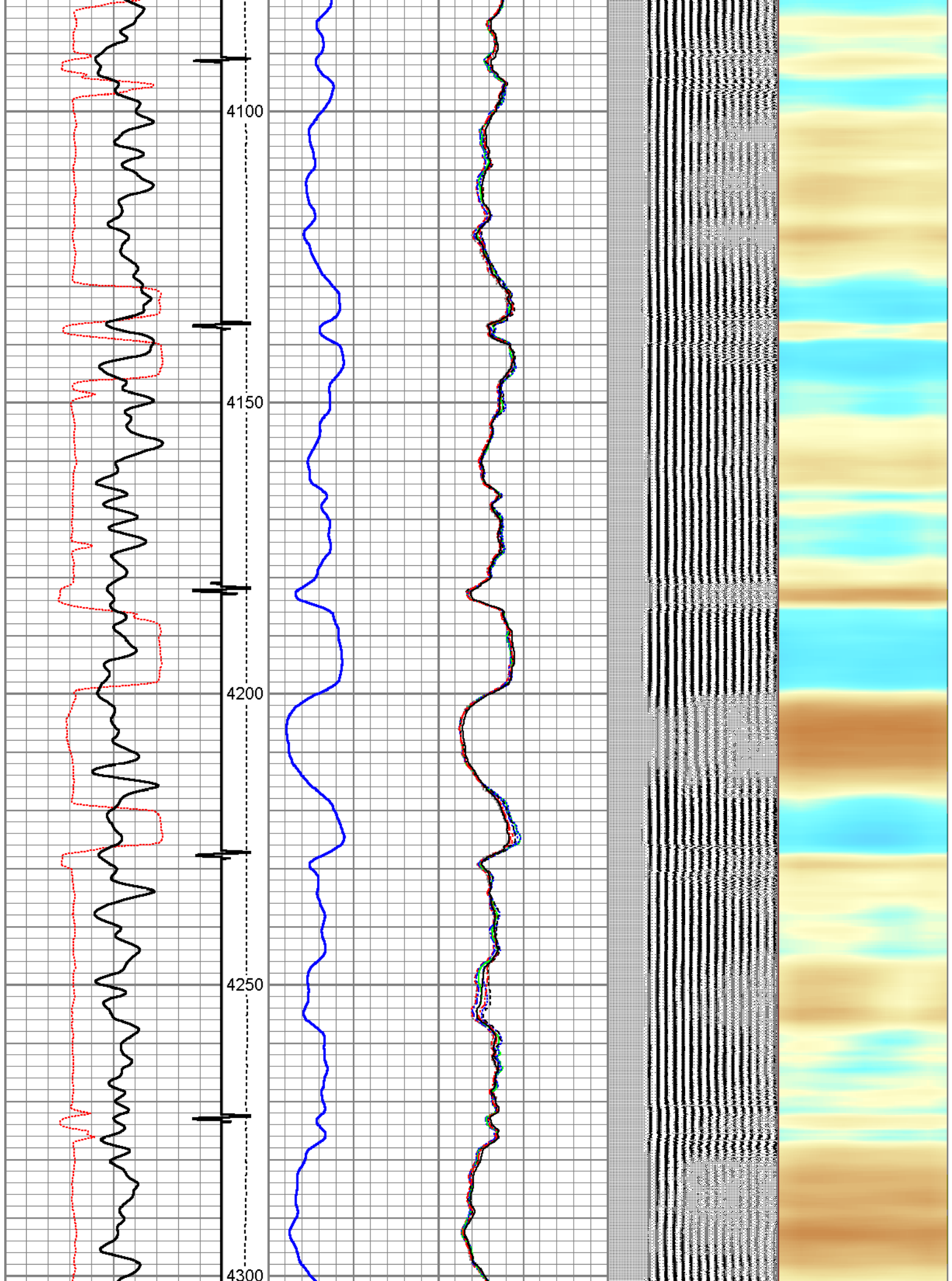


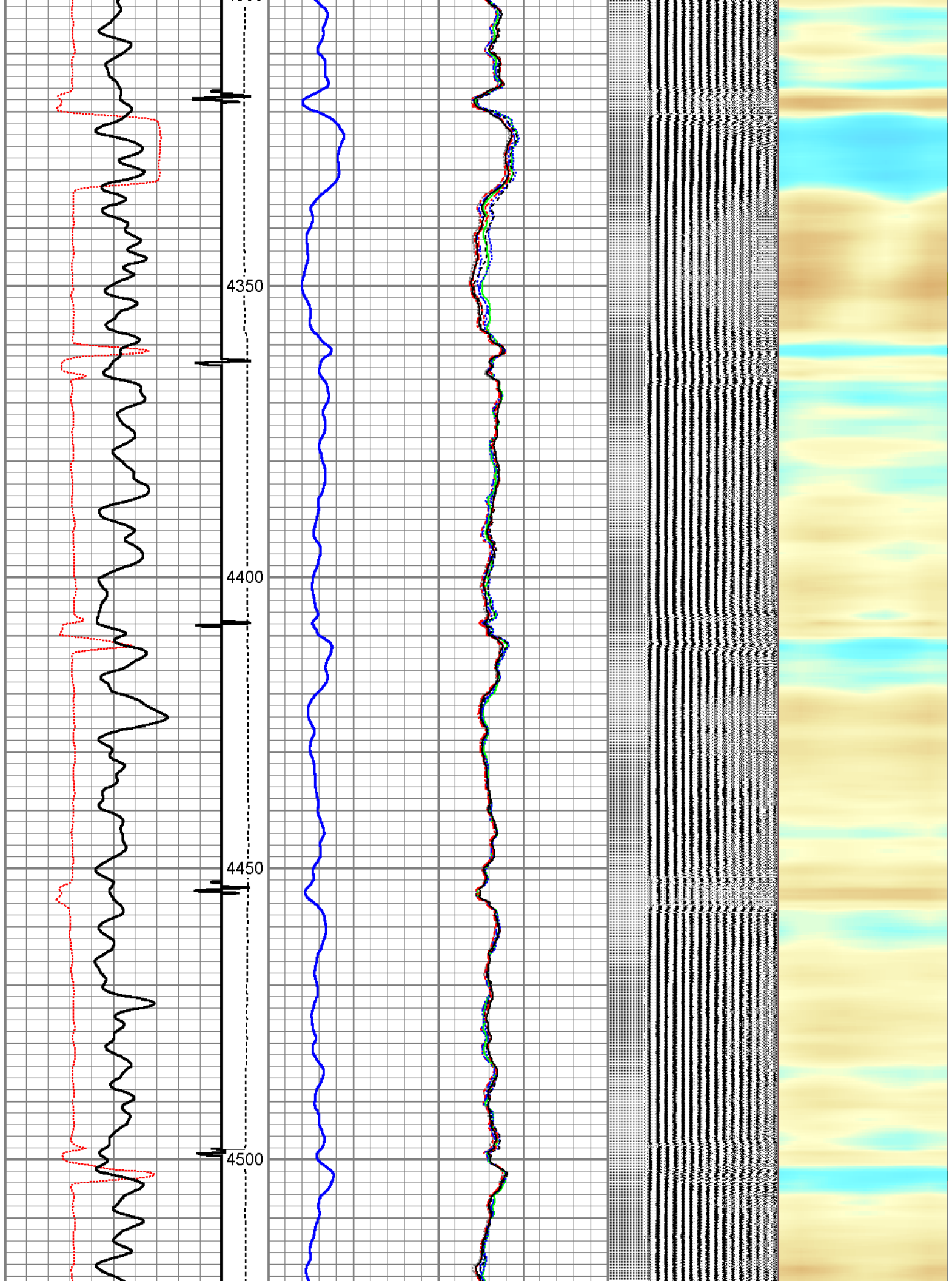


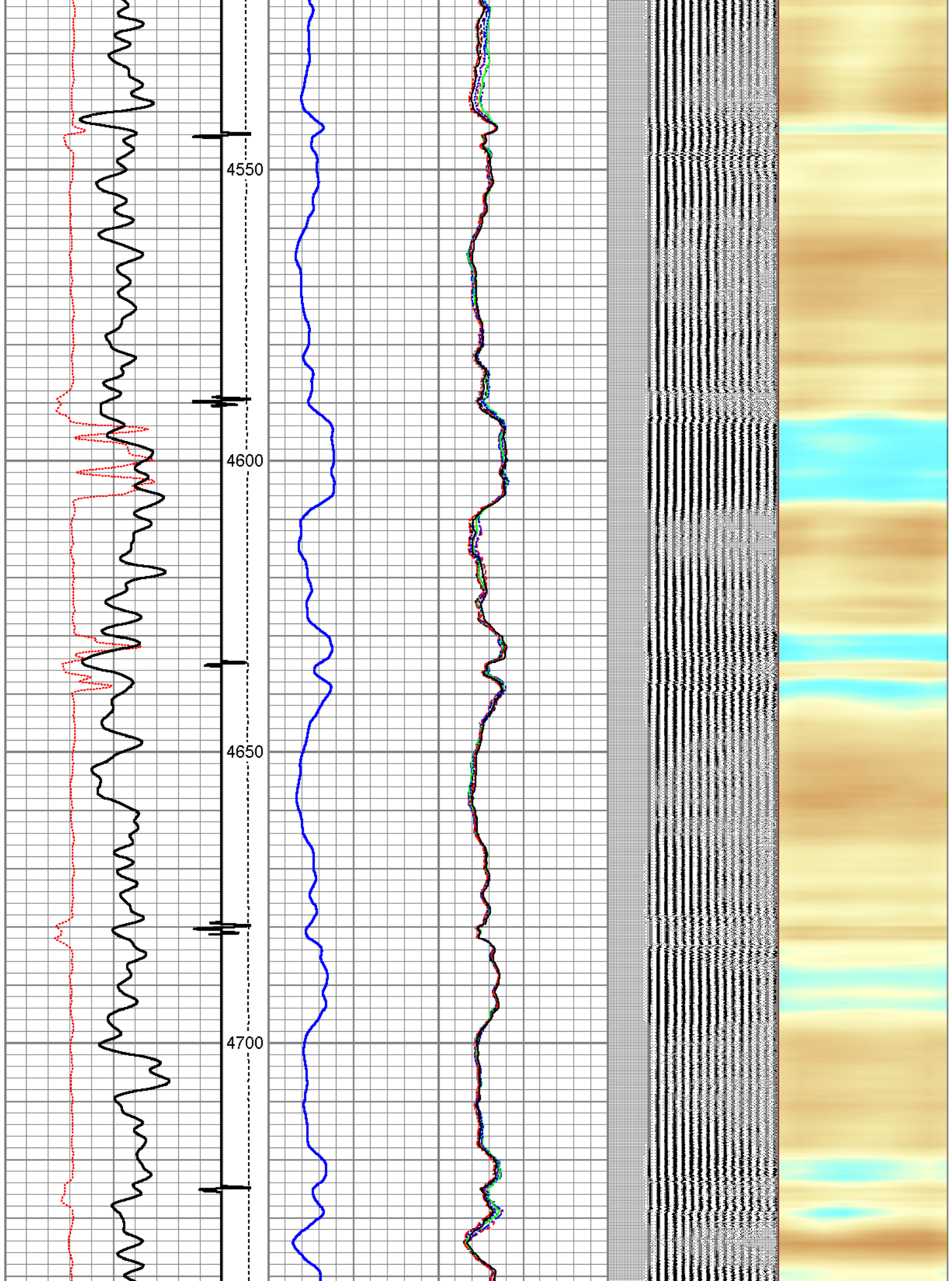


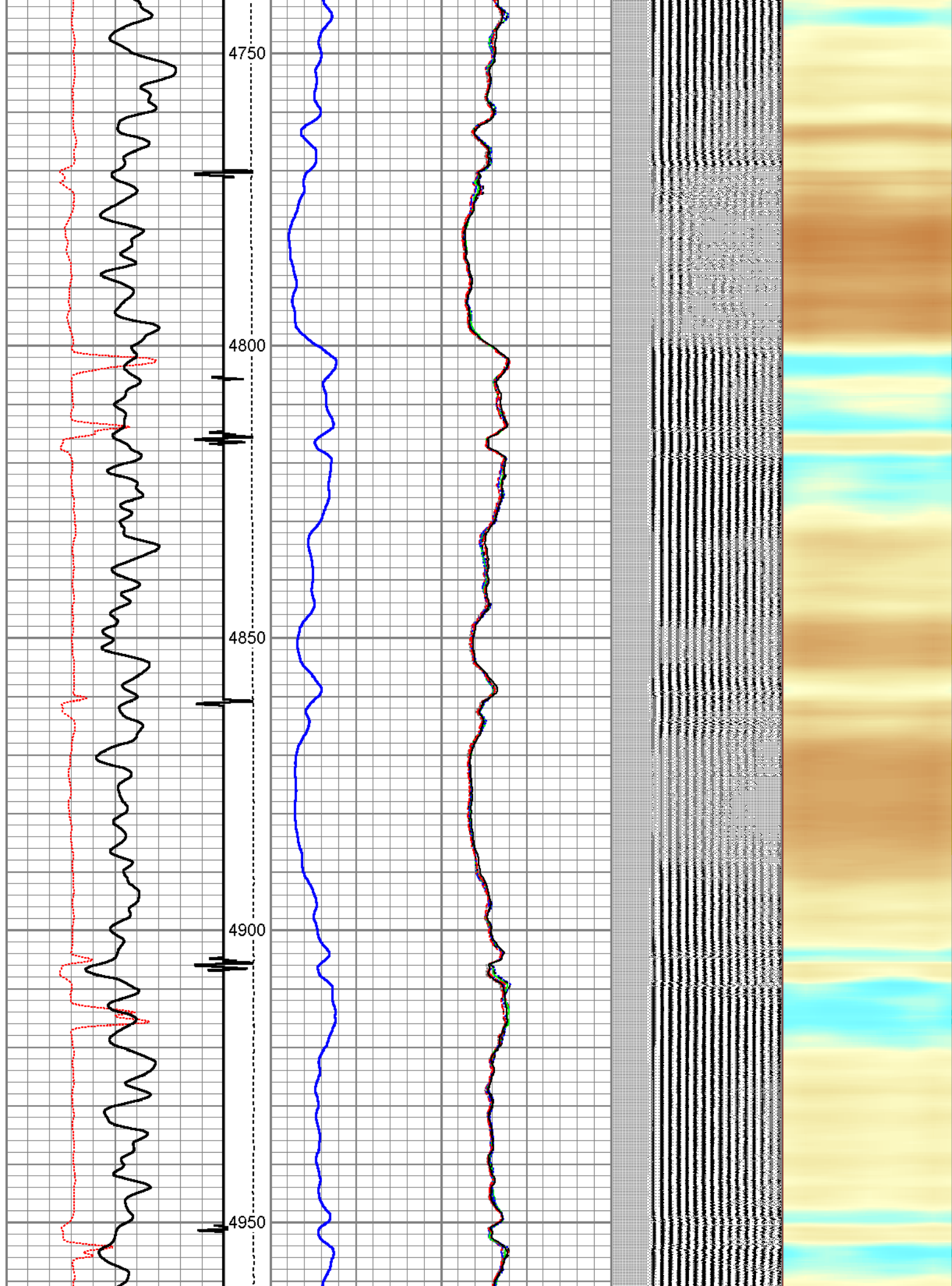


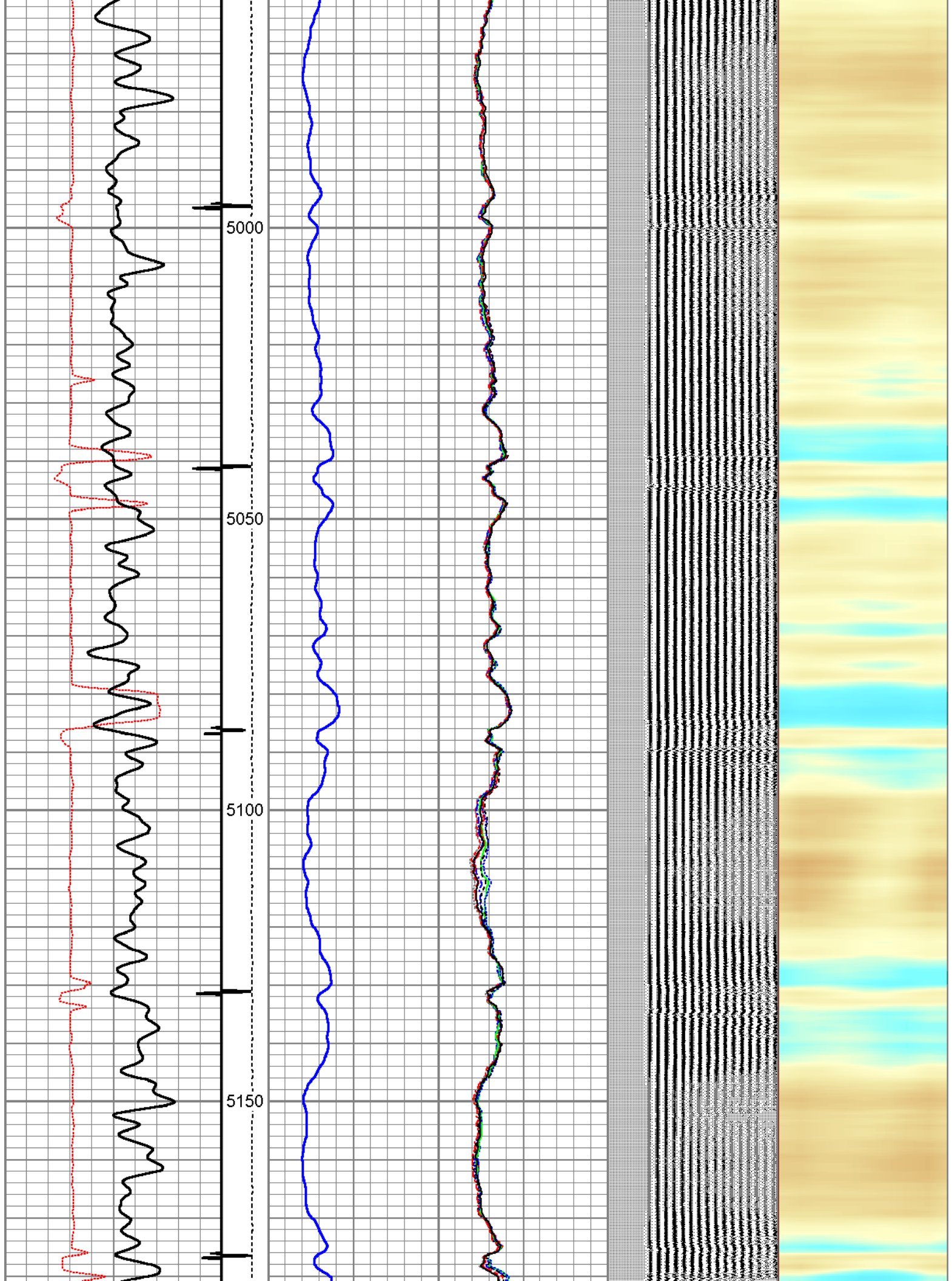


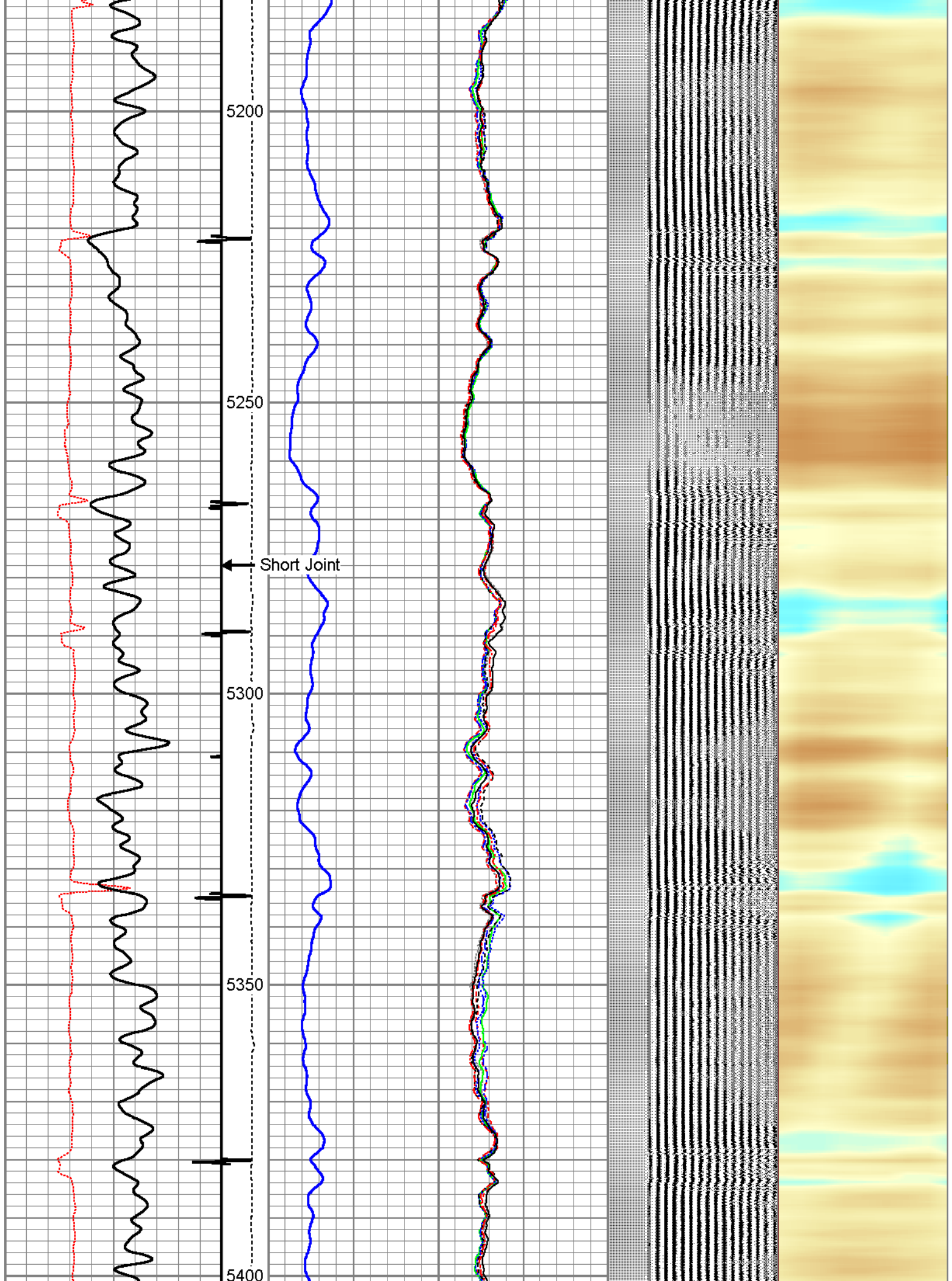


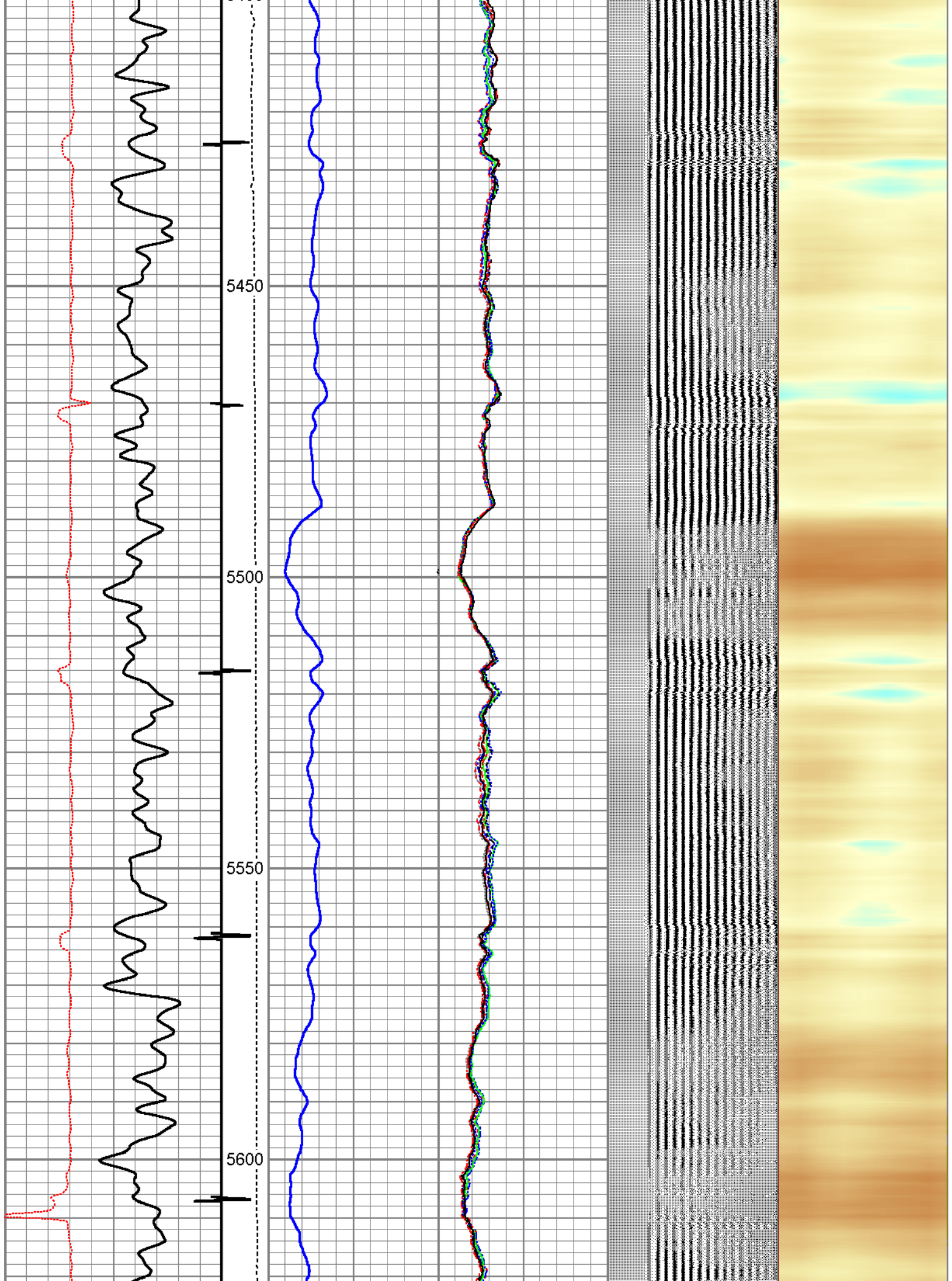


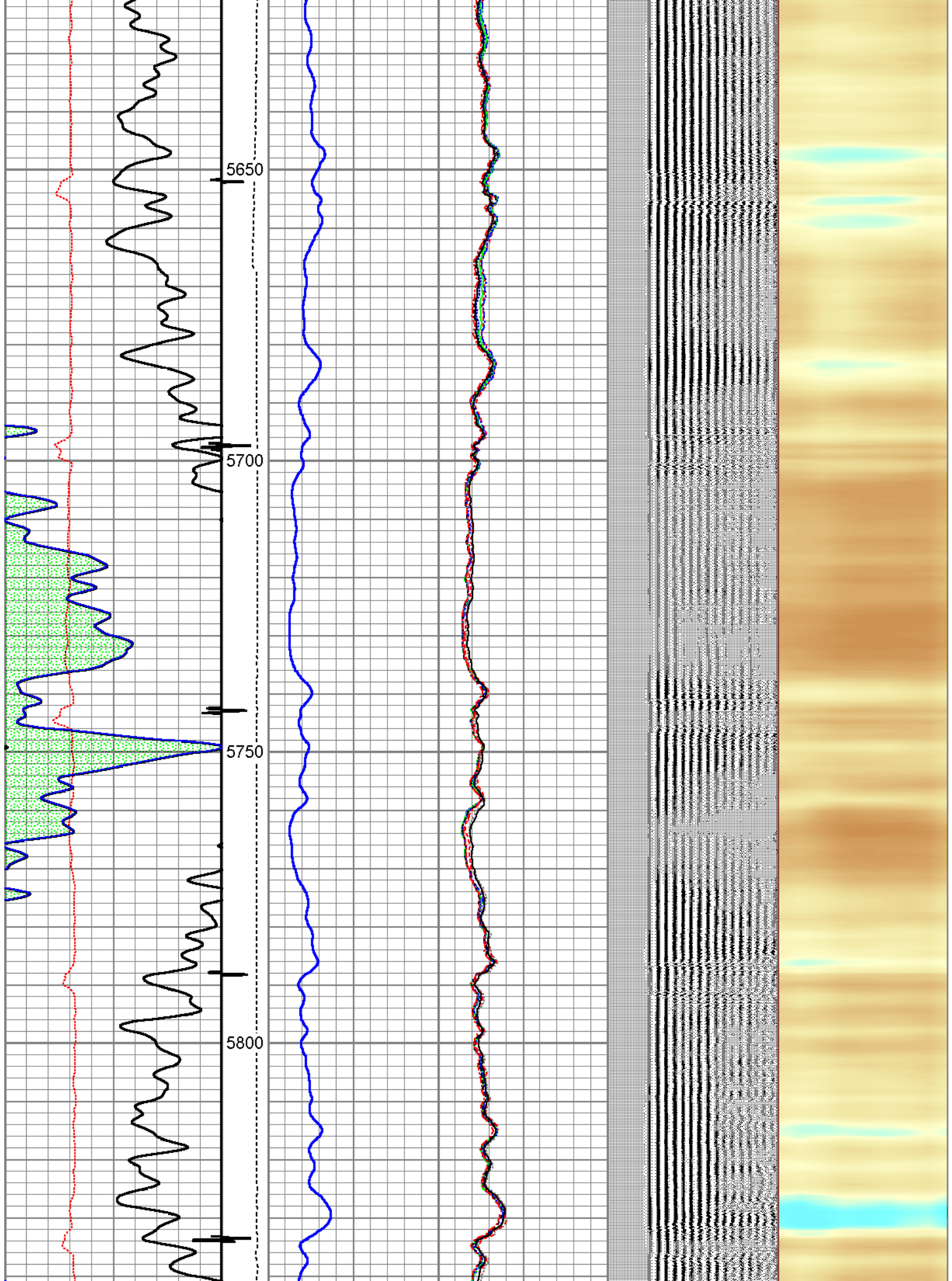


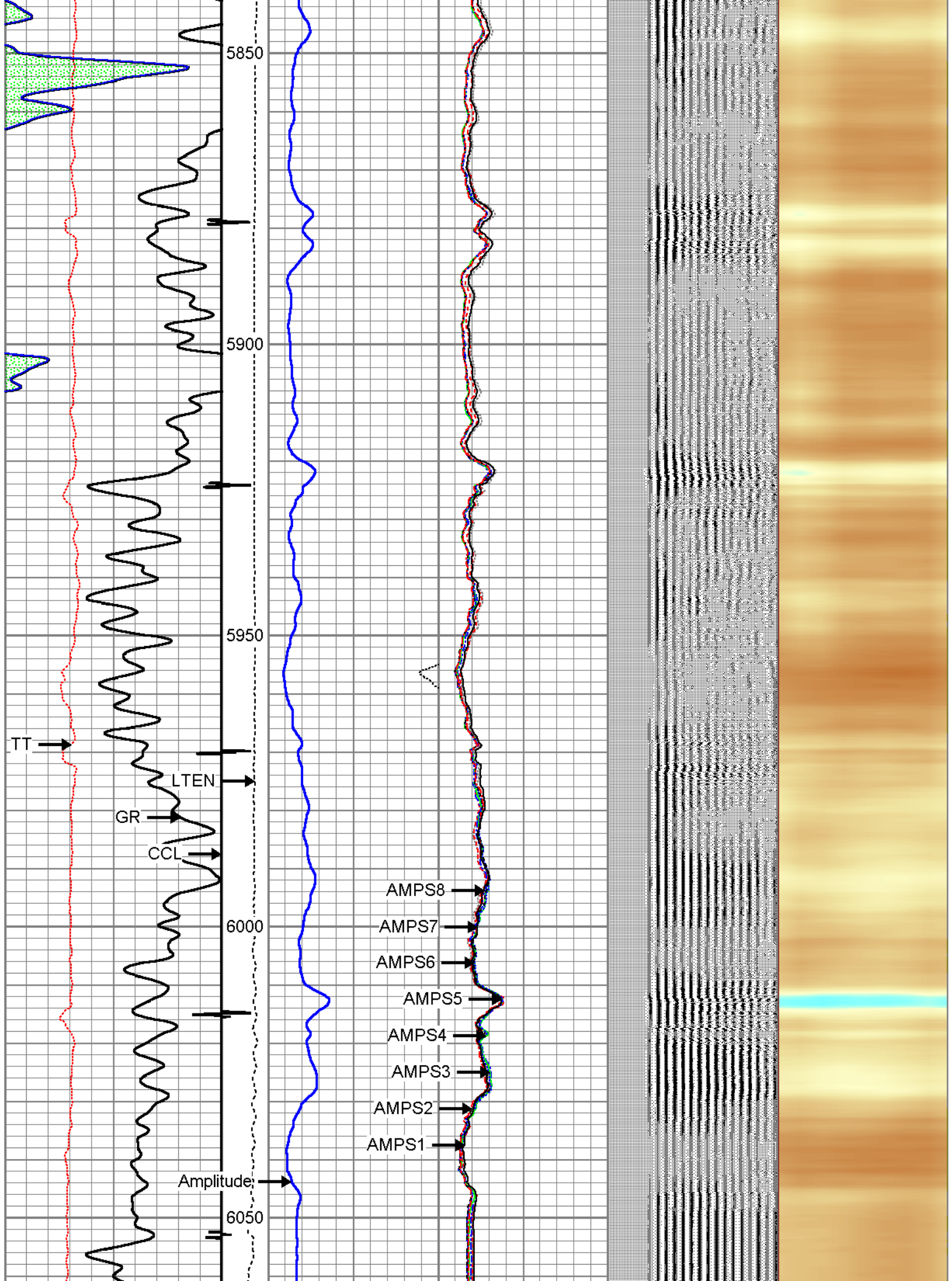


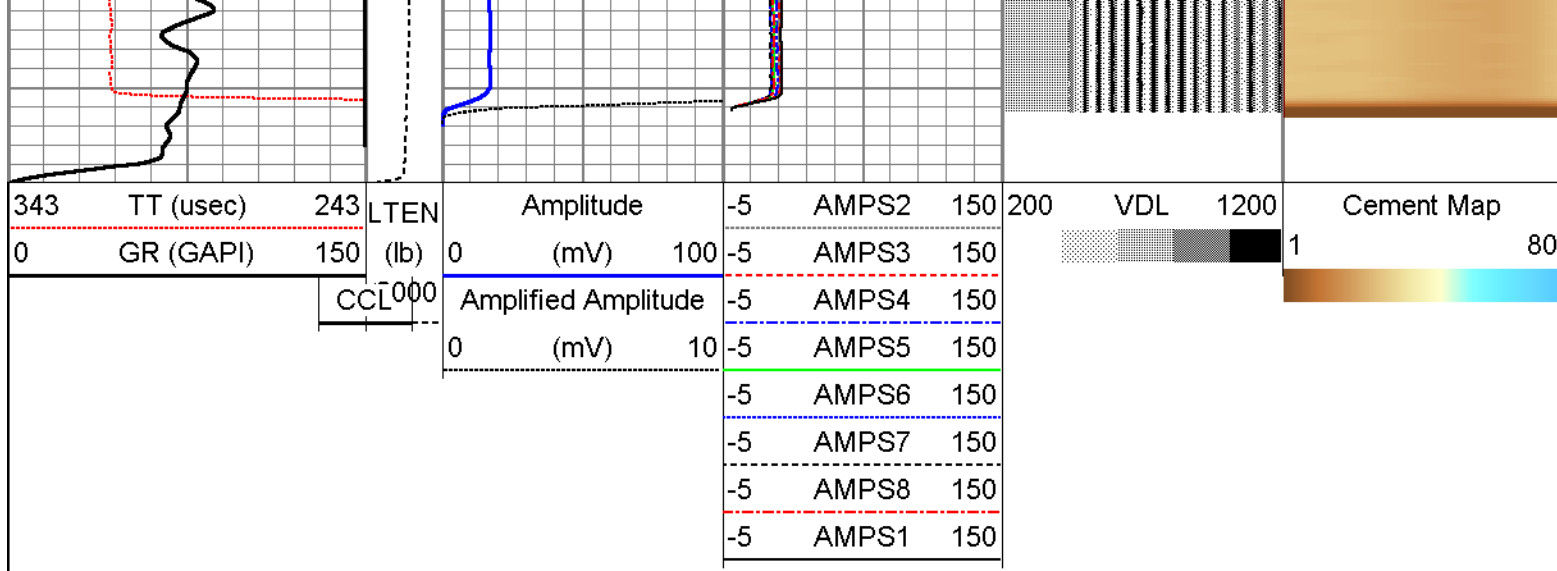








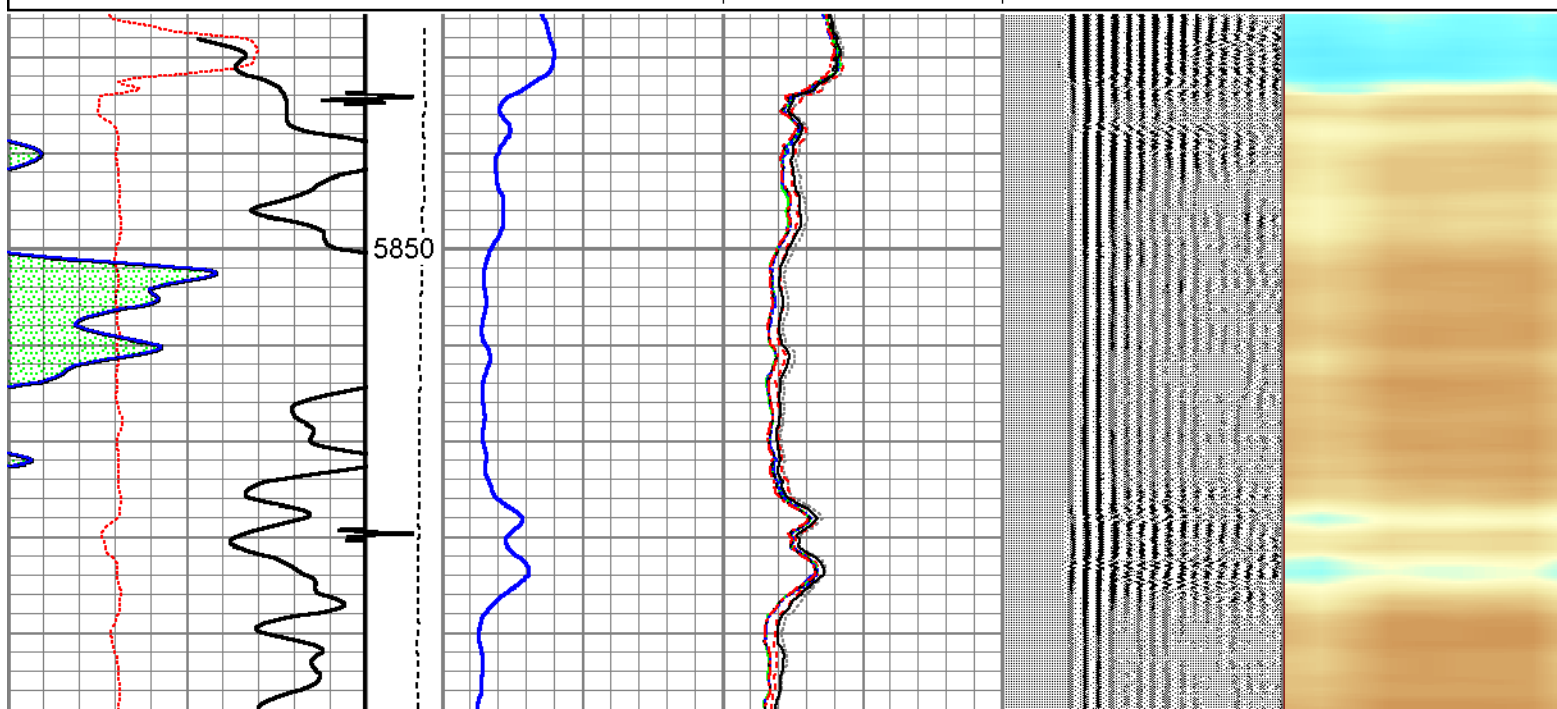
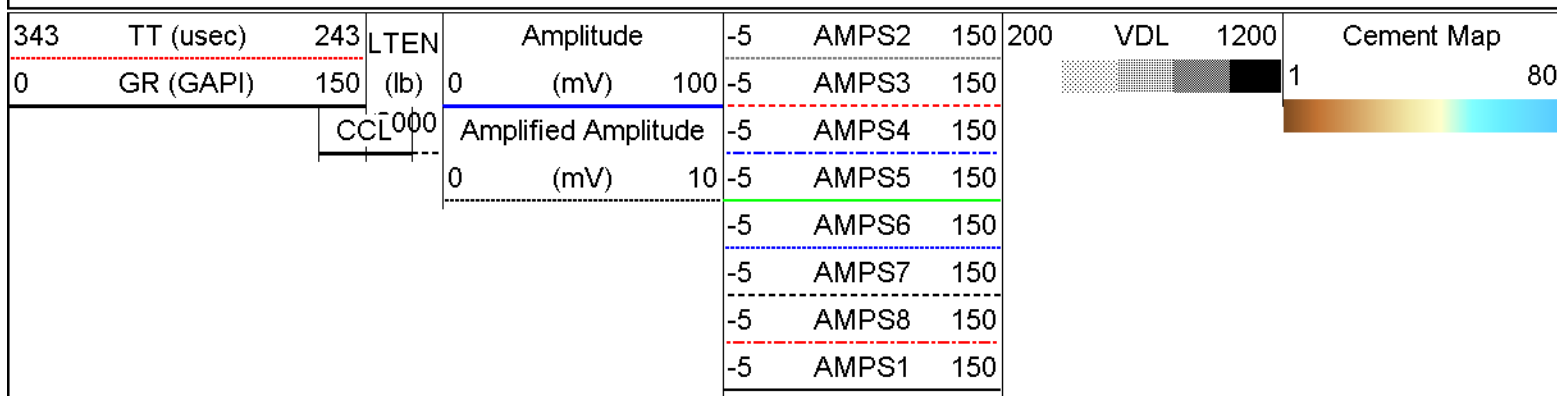


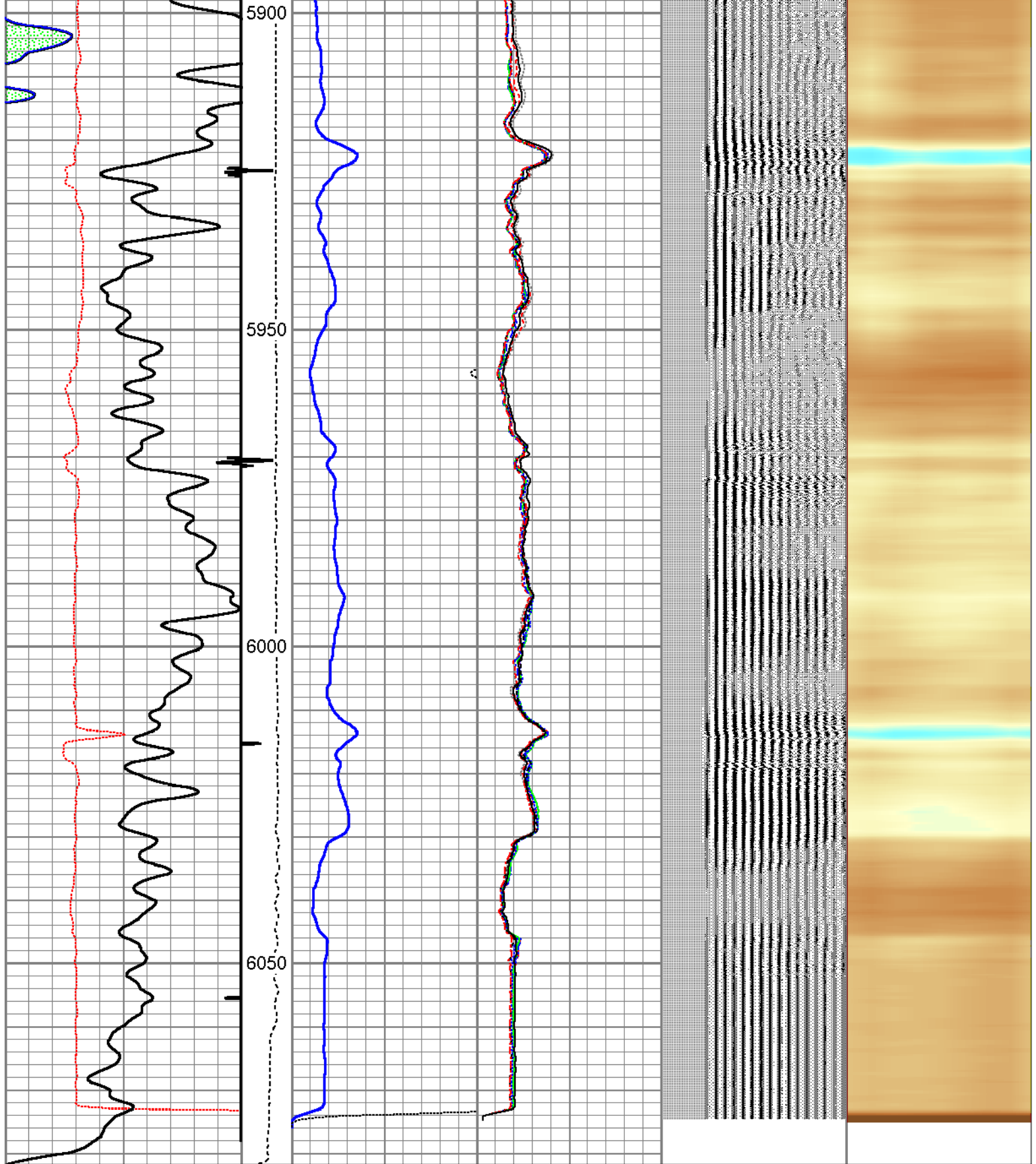



Repeat Section

Logged with 0 psi Surface Pressure

Database File: c:\documents and settings\w059\desktop\horsetail 07e-1836.db
 Dataset Pathname: pass4
 Presentation Format: rbl55
 Dataset Creation: Thu Mar 10 15:36:15 2016 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240





343	TT (usec)	243	LTEN	Amplitude		-5	AMPS2	150	200	VDL	1200	Cement Map
0	GR (GAPI)	150		(lb)	0	(mV)	100	-5				
			CCL000	Amplified Amplitude		-5	AMPS4	150				
				0	(mV)	10	-5	AMPS5	150			
							-5	AMPS6	150			
							-5	AMPS7	150			
							-5	AMPS8	150			
							-5	AMPS9	150			

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Standard Standard Cable Head	1.00	1.69	1.00
			RBT-Probe (060113_45) Probe 2.75" Radii Bond Tool	9.39	2.75	90.00
WVFS3FT	8.19					
WVFCAL	8.19					
WVFS1	8.19					
WVFS2	8.19					
WVFS3	8.19					
WVFS4	8.19					
WVFS5	8.19					
WVFS6	8.19					
WVFS7	8.19					
WVFS8	8.19					
WVFS5FT	7.19					
CCL	3.50					
			GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00
GR	1.00					

Total Length:	14.39 ft
Total Weight:	121.00 lb
O.D.	2.75 in



Company	Whiting Oil & Gas Corp
Well	Horsetail 07E-1836
Field	Wild Cat
County	Weld
State	Colorado