



Radial Cement Bond
Gamma Ray / CCL

Company Whiting Oil & Gas
Well Horestail 07E-0604
Field Wild Cat
County Weld State Colorado

Location: API #: 05-123-41652-0000 Other Services

SHL: 2510' FNL @ 880' FWL' NW/NW
SEC 7 TWP 10N RGE 57W
Permanent Datum GL Elevation 4928'
Log Measured From KB @ 21 ft above GL
Drilling Measured From KB Elevation
K.B. 4949'
D.F. 4948'
G.L. 4928'

Date 10-Mar-2016

Run Number One
Depth Driller 13585'
Depth Logger 6060'
Bottom Logged Interval 6060'
Top Log Interval Surface
Open Hole Size Water
Type Fluid N/A
Density / Viscosity Not Recorded
Max. Recorded Temp. 7:00
Estimated Cement Top 10:00
Time Well Ready 10:00
Time Logger on Bottom W-060
Equipment Number Windsor, CO
Location Ron Wells
Recorded By Jeff
Witnessed By

Borehole Record
Run Number Bit From To Size Weight From To

Casing Record
Surface String 9 5/8" 36# Top Surface Bottom
Prot. String
Production String 5.5" 20# Surface TD
Liner

>>> Fold Here >>>

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 used for primary depth control

Short Joint:
5226-5249 FT

Calibration Report

Database File: C:\Documents and Settings\W059\Desktop\WHITING\HORSETAIL 07E-0604 RCBL\horsetail 07e-060
Dataset Pathname: pass10.1
Dataset Creation: Thu Mar 10 16:08:37 2016 by Calc Std Casedhole 09061

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	-3.000	71.921	166.012	-3.000
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:

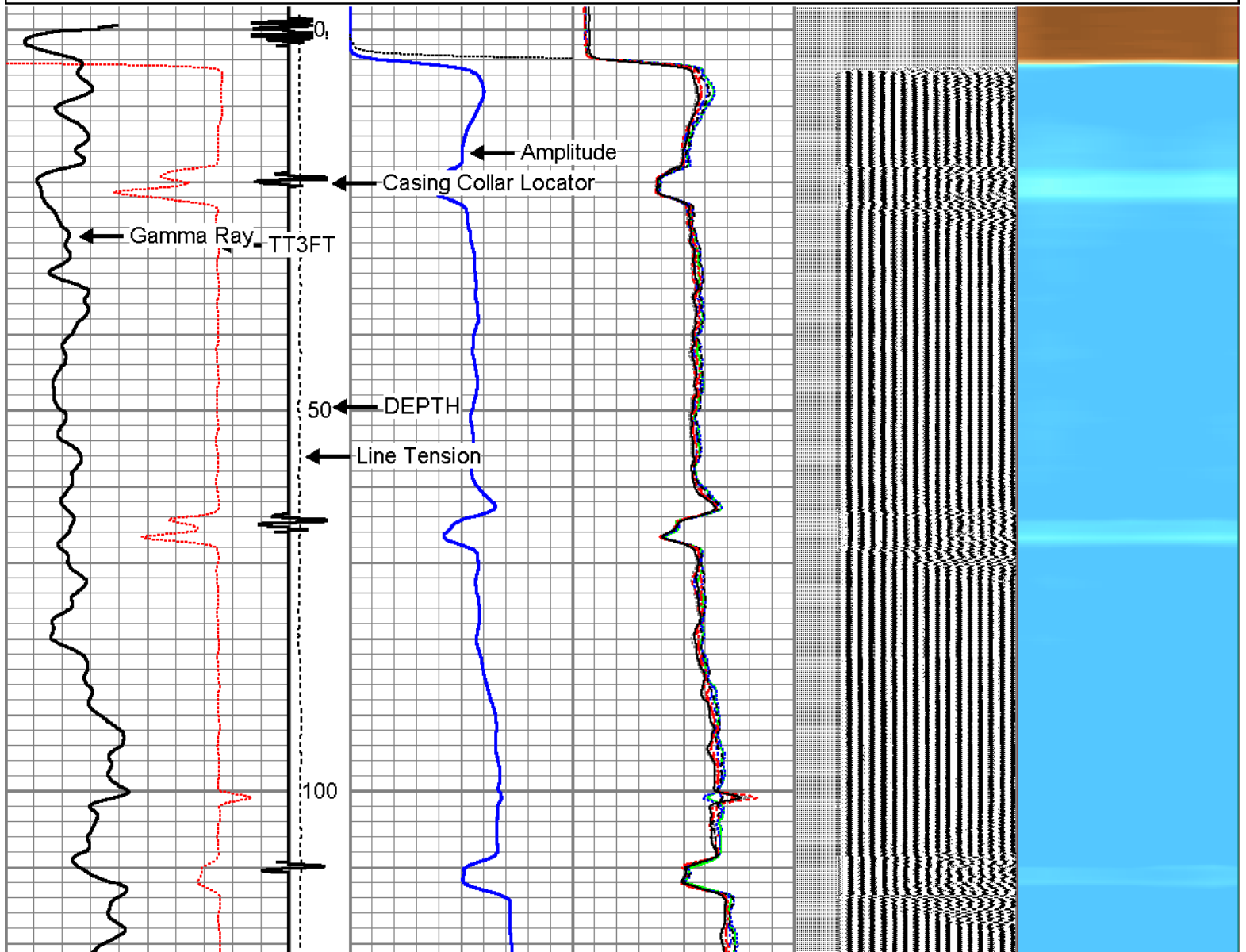
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000

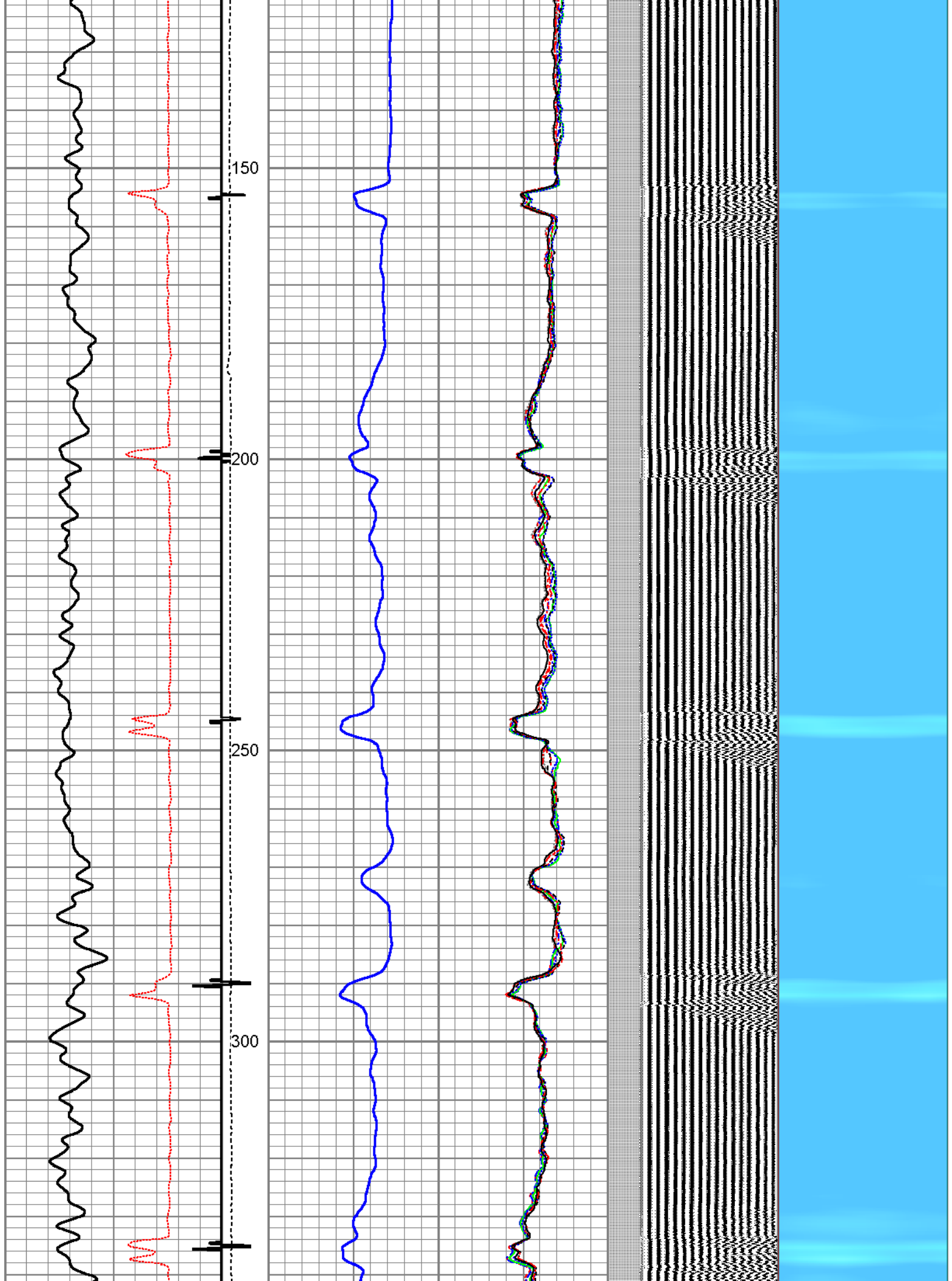
S7
S80.000
0.0000.000
0.0000.000
0.000

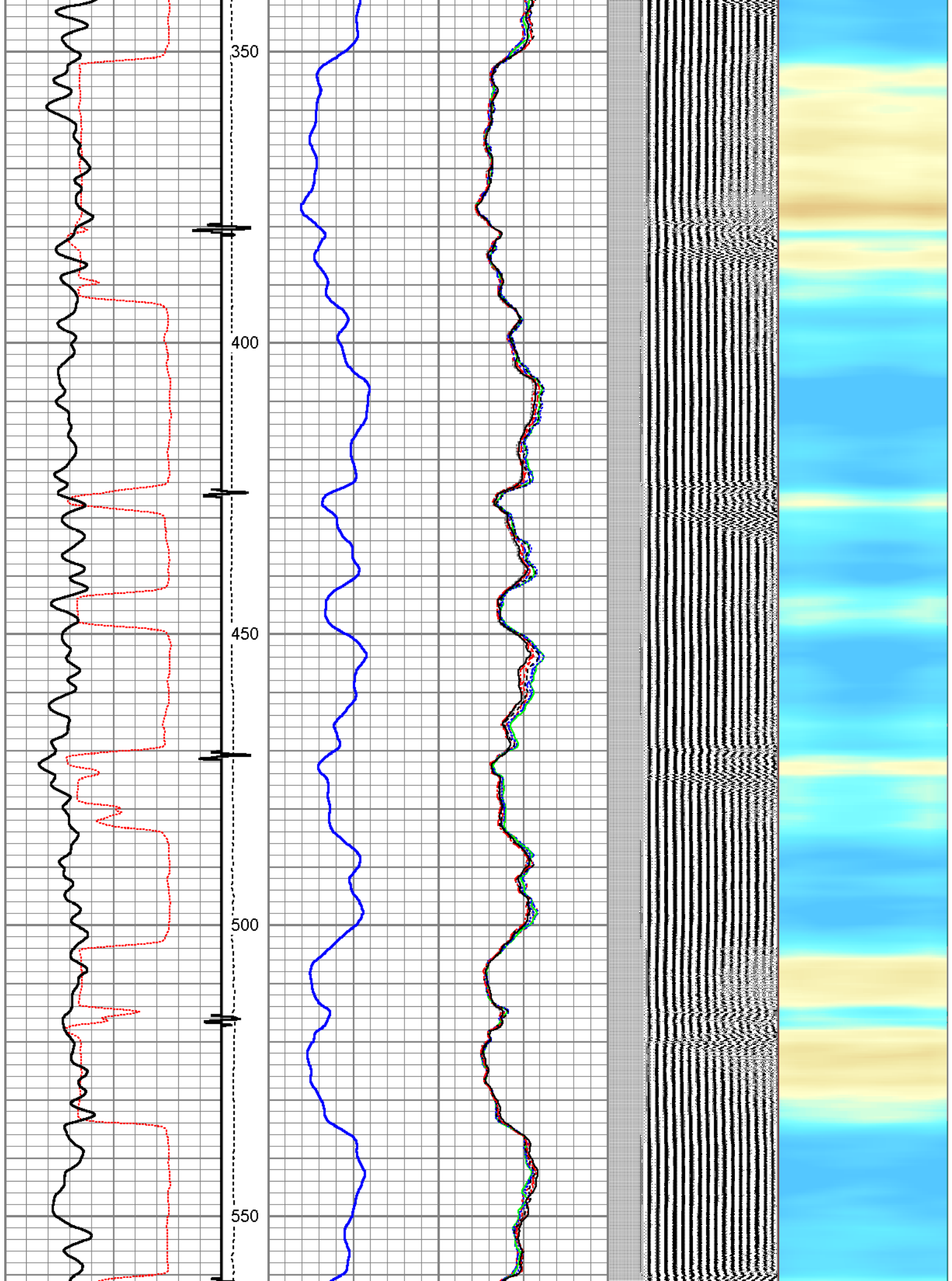
MAIN PASS 1500 PSI

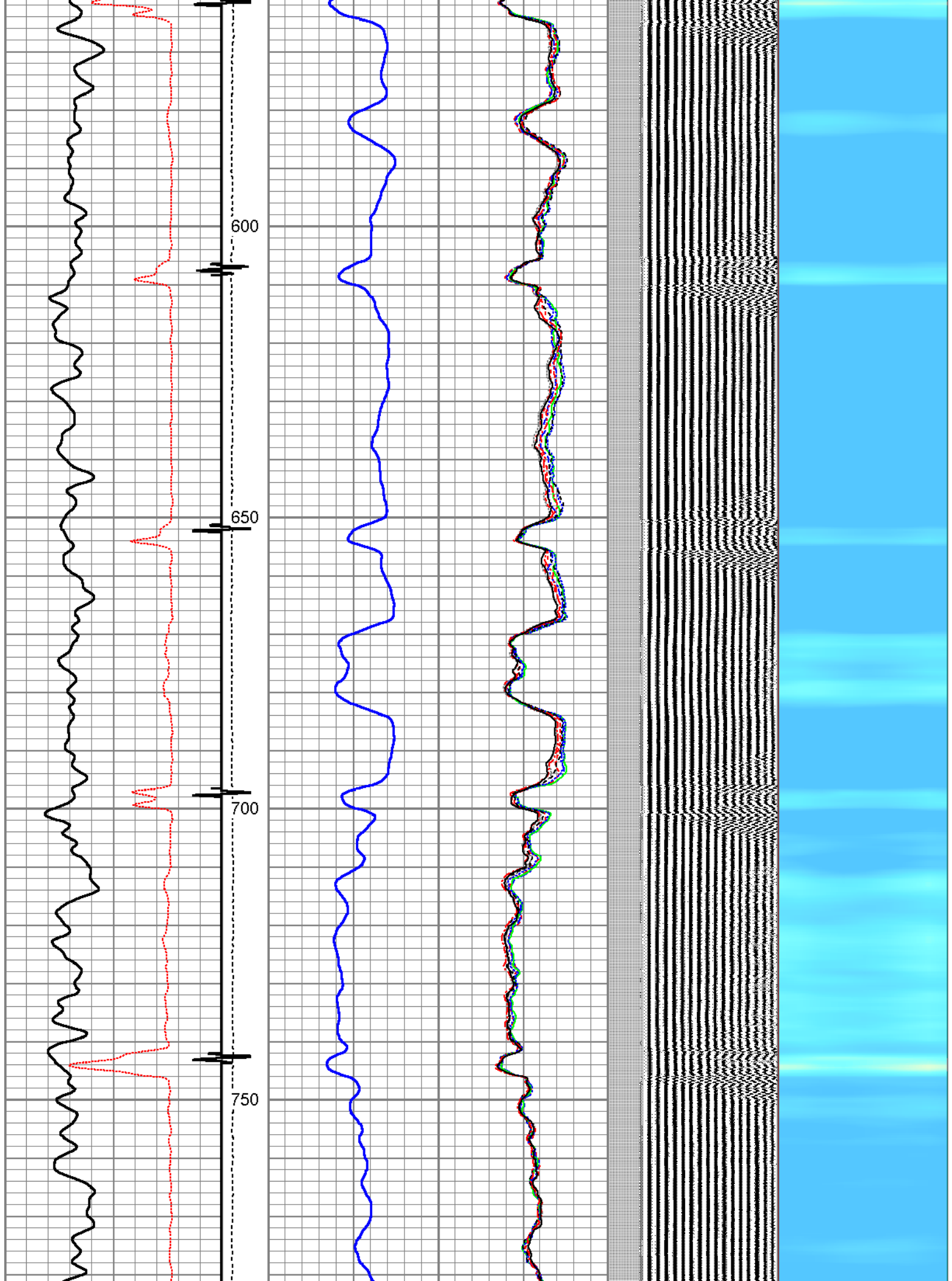
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Dataset Pathname: pass10.1
Presentation Format: rbl55
Dataset Creation: Thu Mar 10 16:08:37 2016 by Calc Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

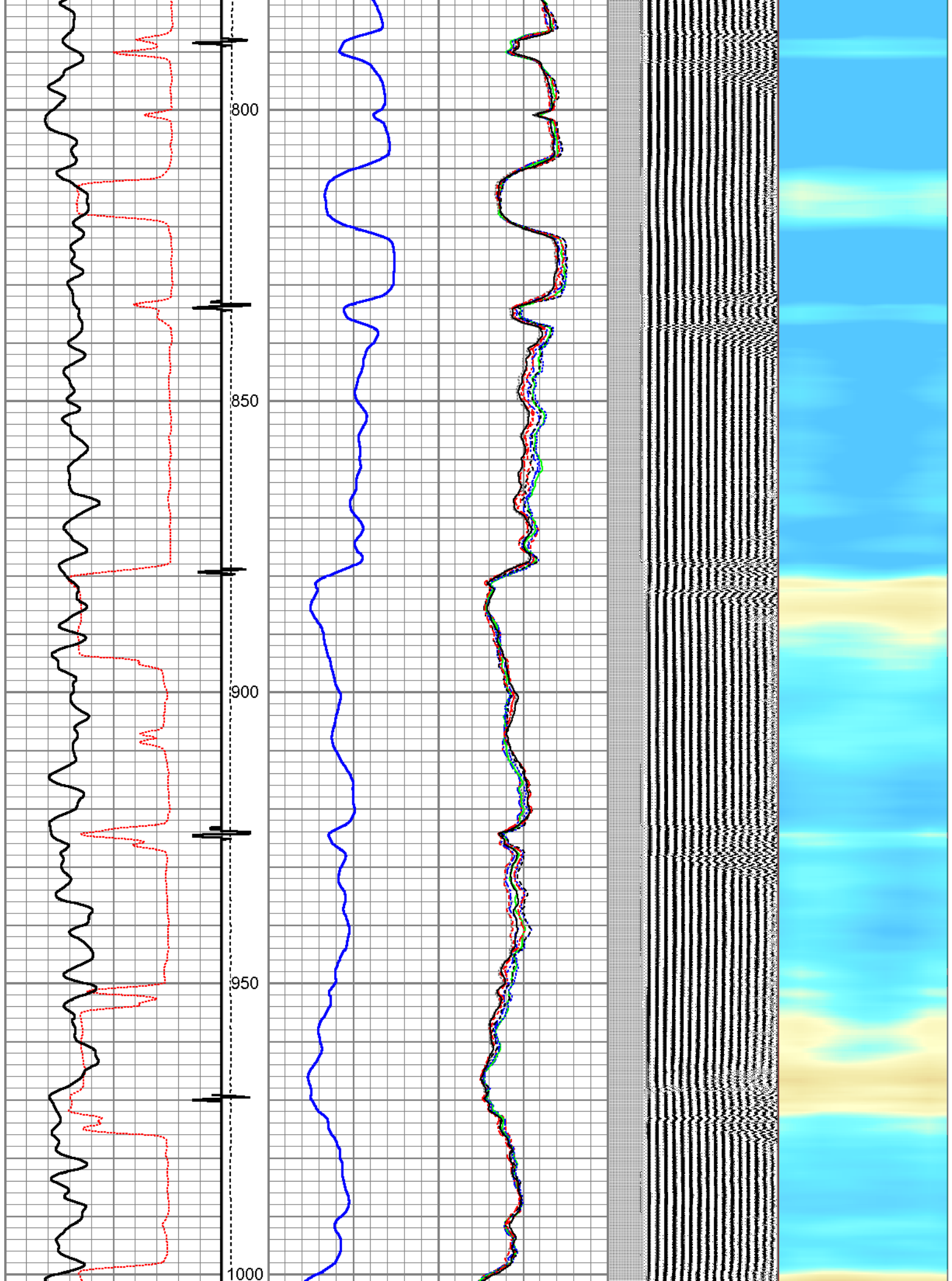
343	TT (usec)	243	LTEN	Amplitude		-5	AMPS2	150	200	VDL	1200	Cement Map	
0	GR (GAPI)	150		(lb)	0	(mV)	100	-5					AMPS3
			CCL	Amplified Amplitude		-5	AMPS4	150					
			000	0	(mV)	10	-5	AMPS5	150				
							-5	AMPS6	150				
							-5	AMPS7	150				
							-5	AMPS8	150				
							-5	AMPS1	150				

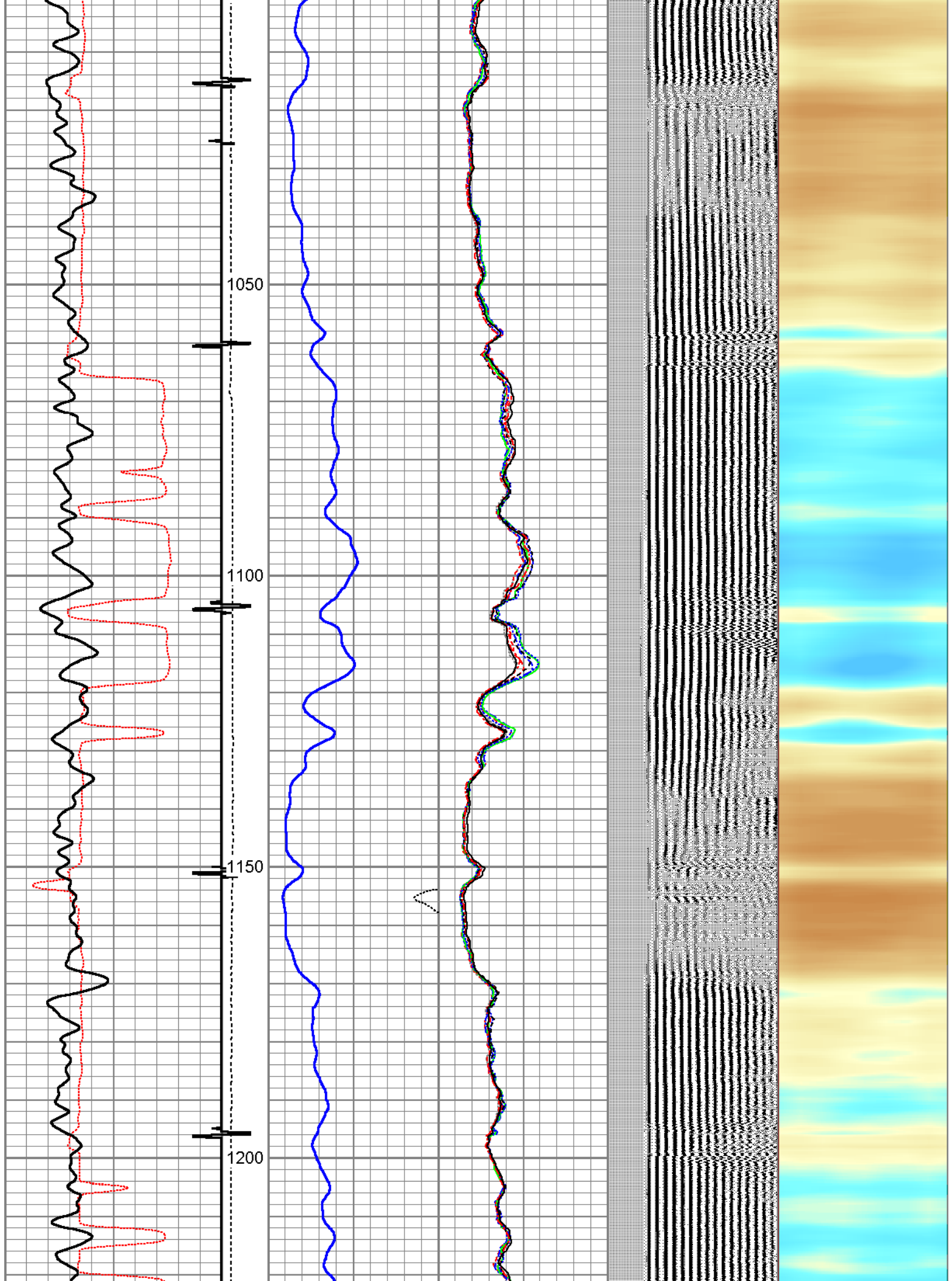


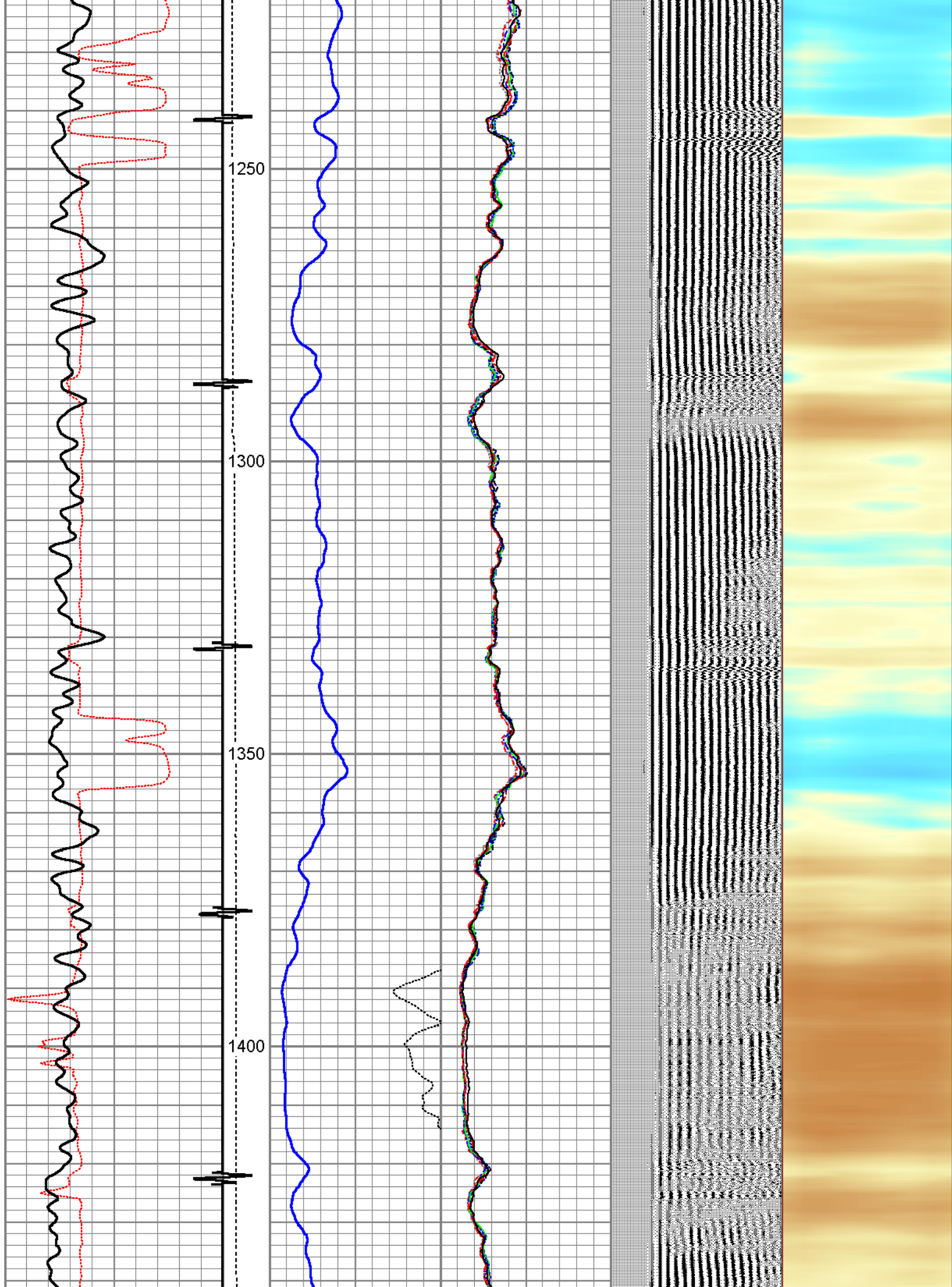


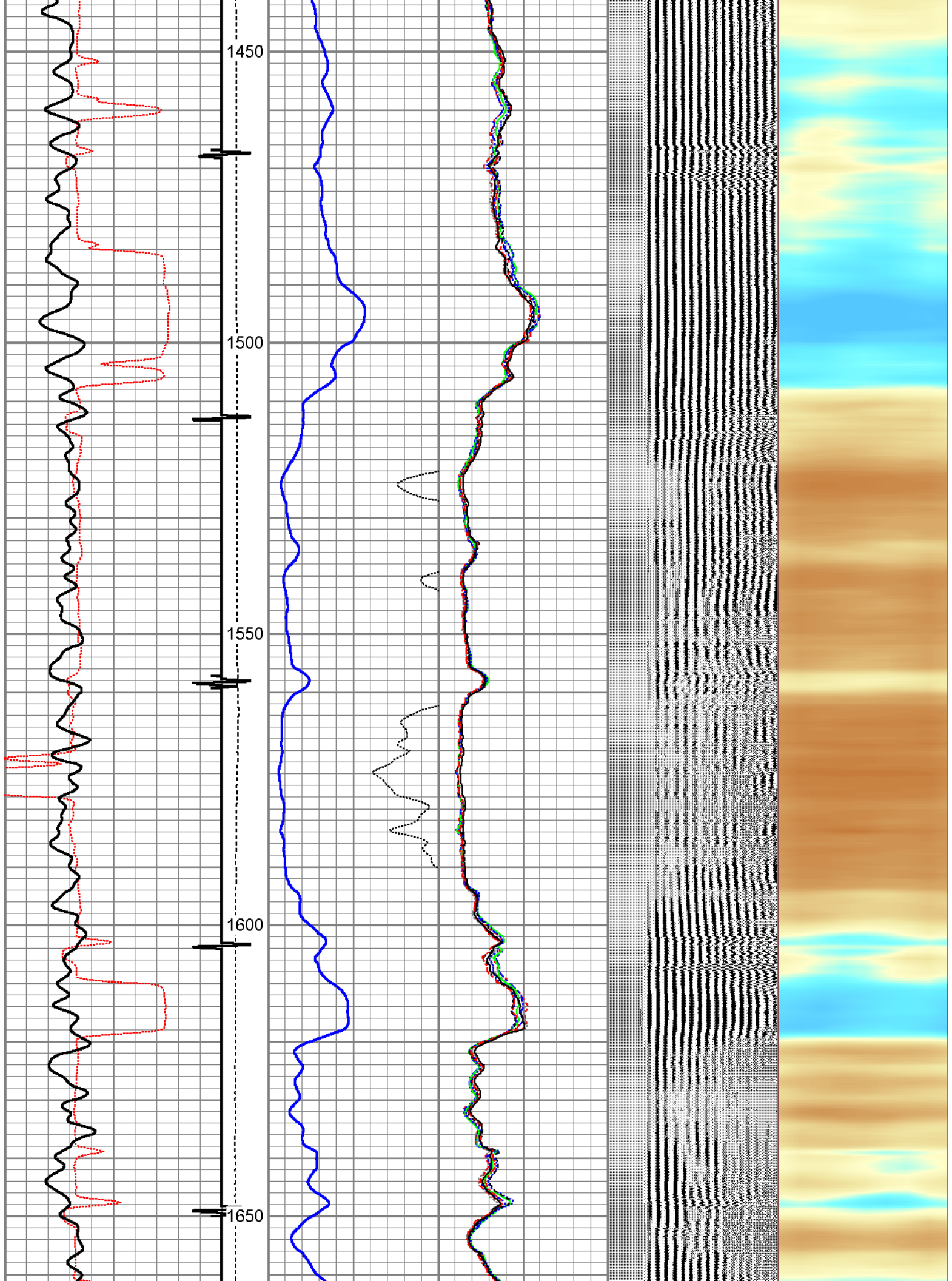


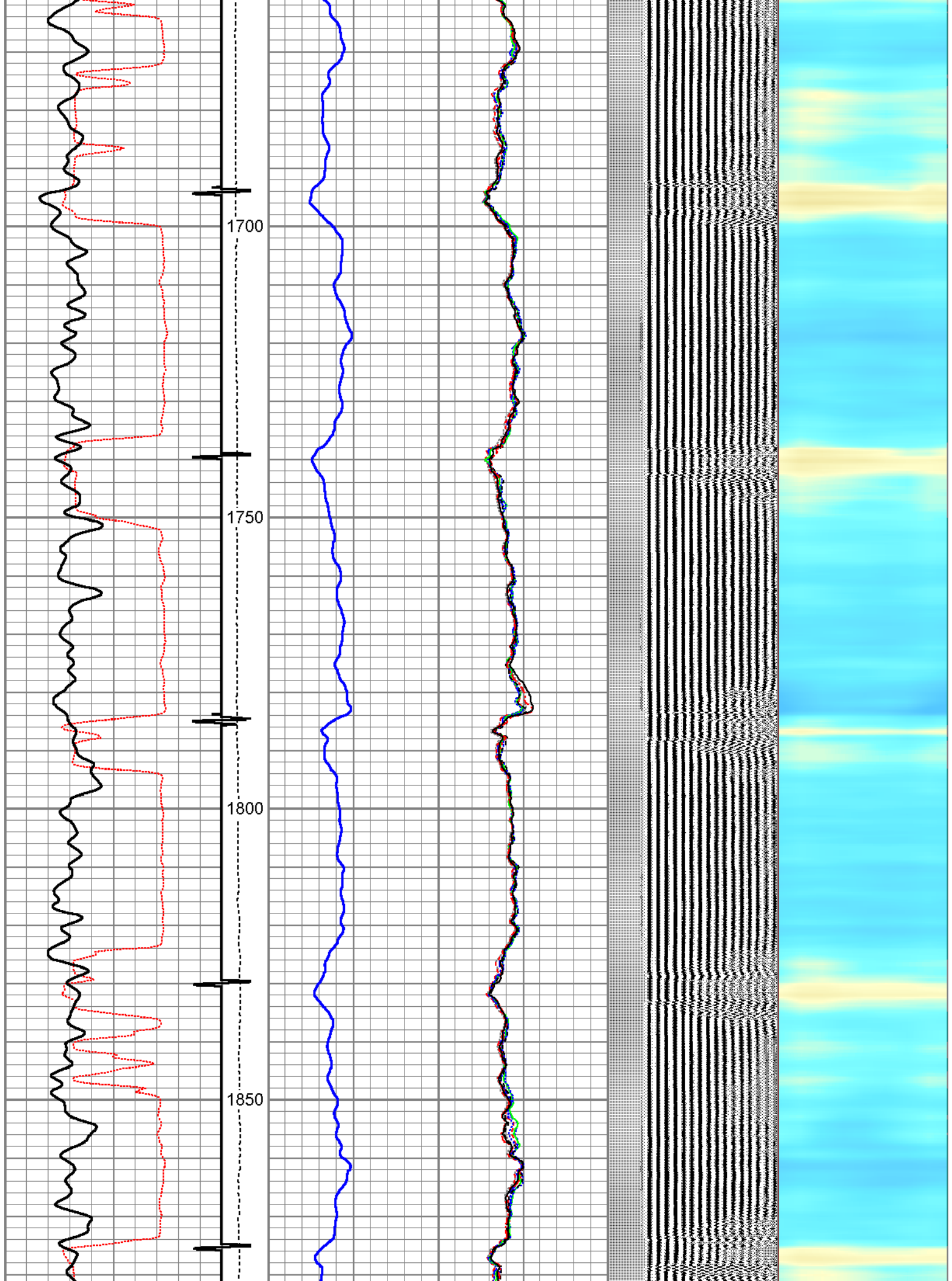


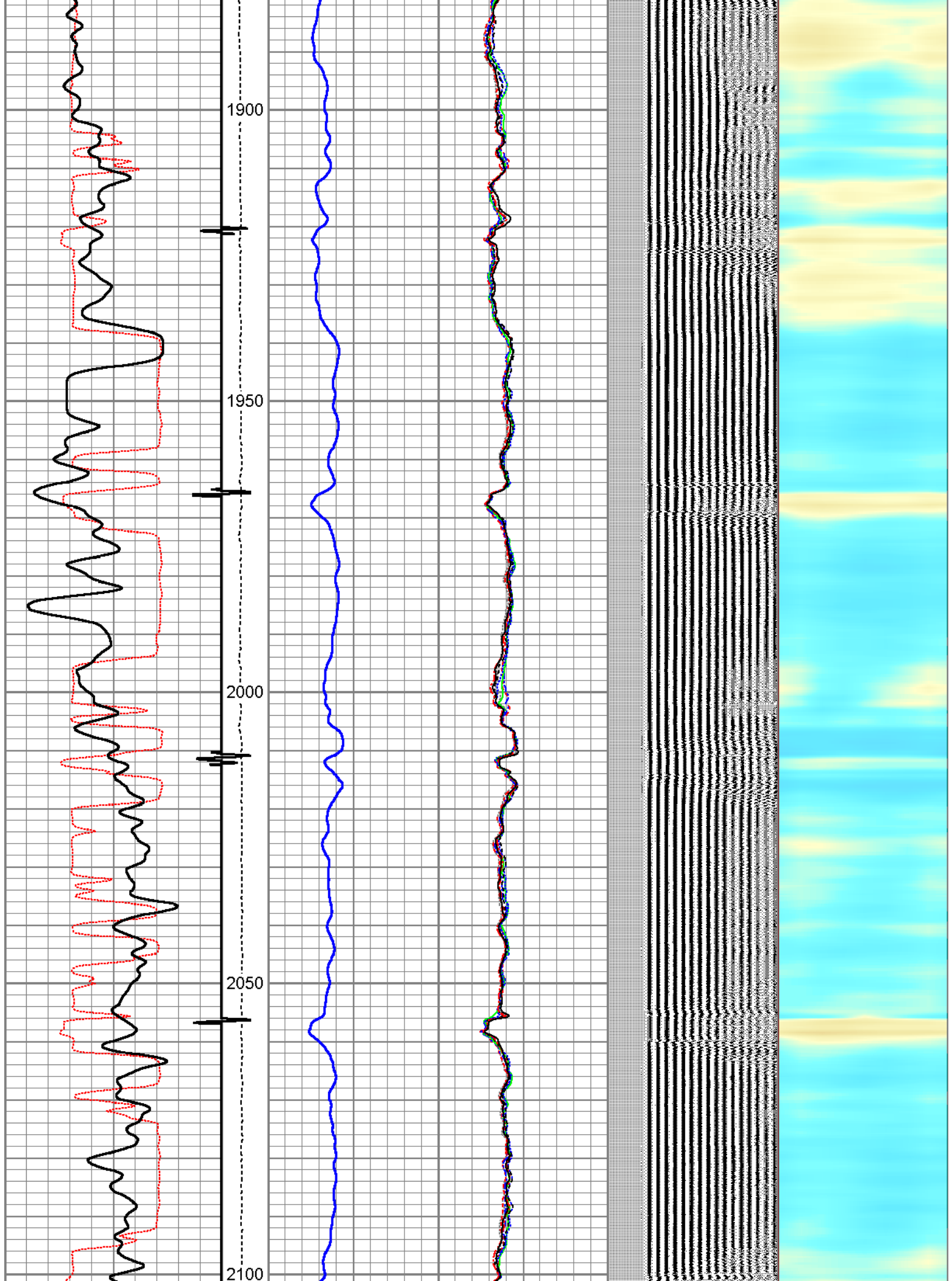


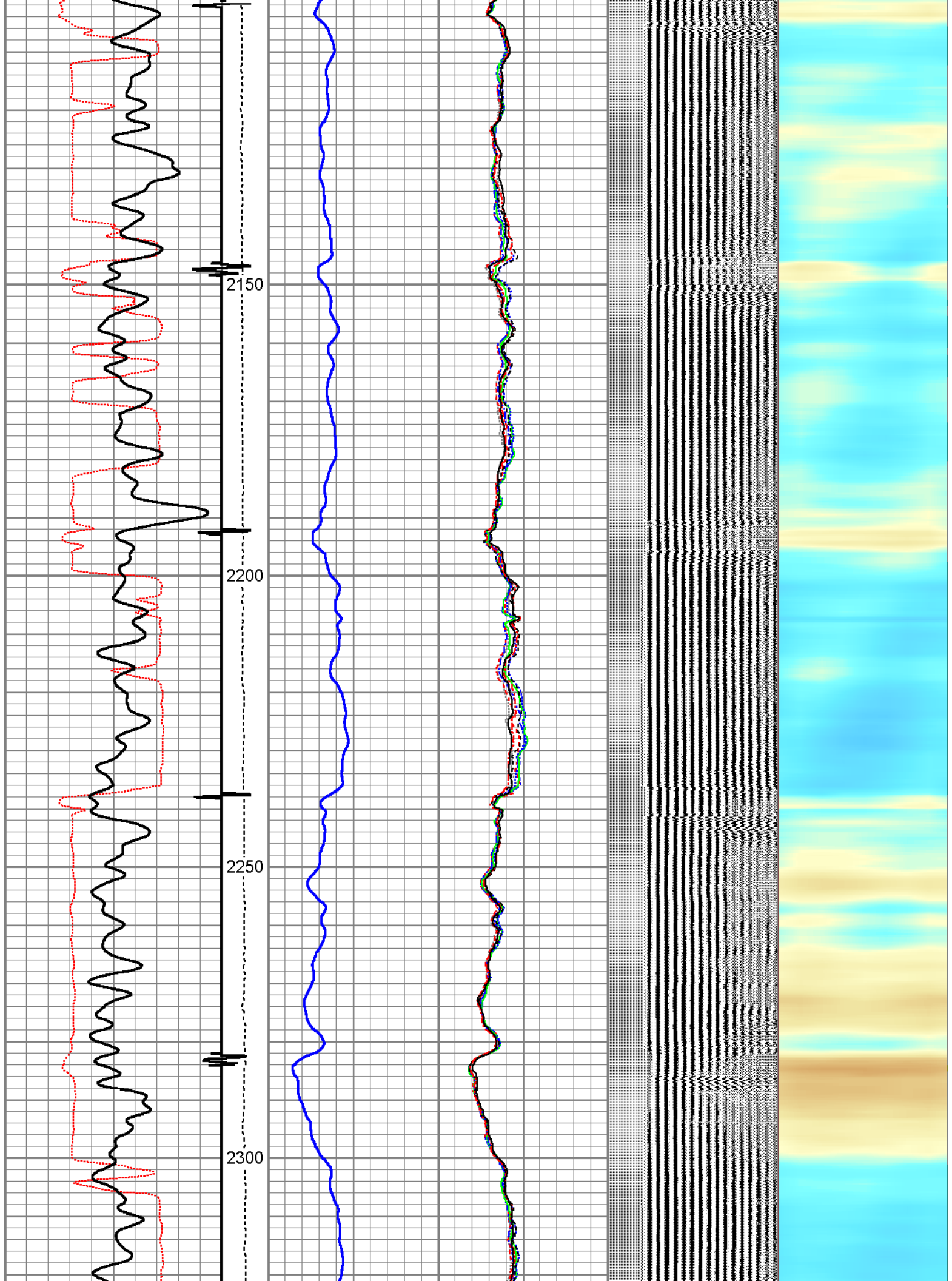


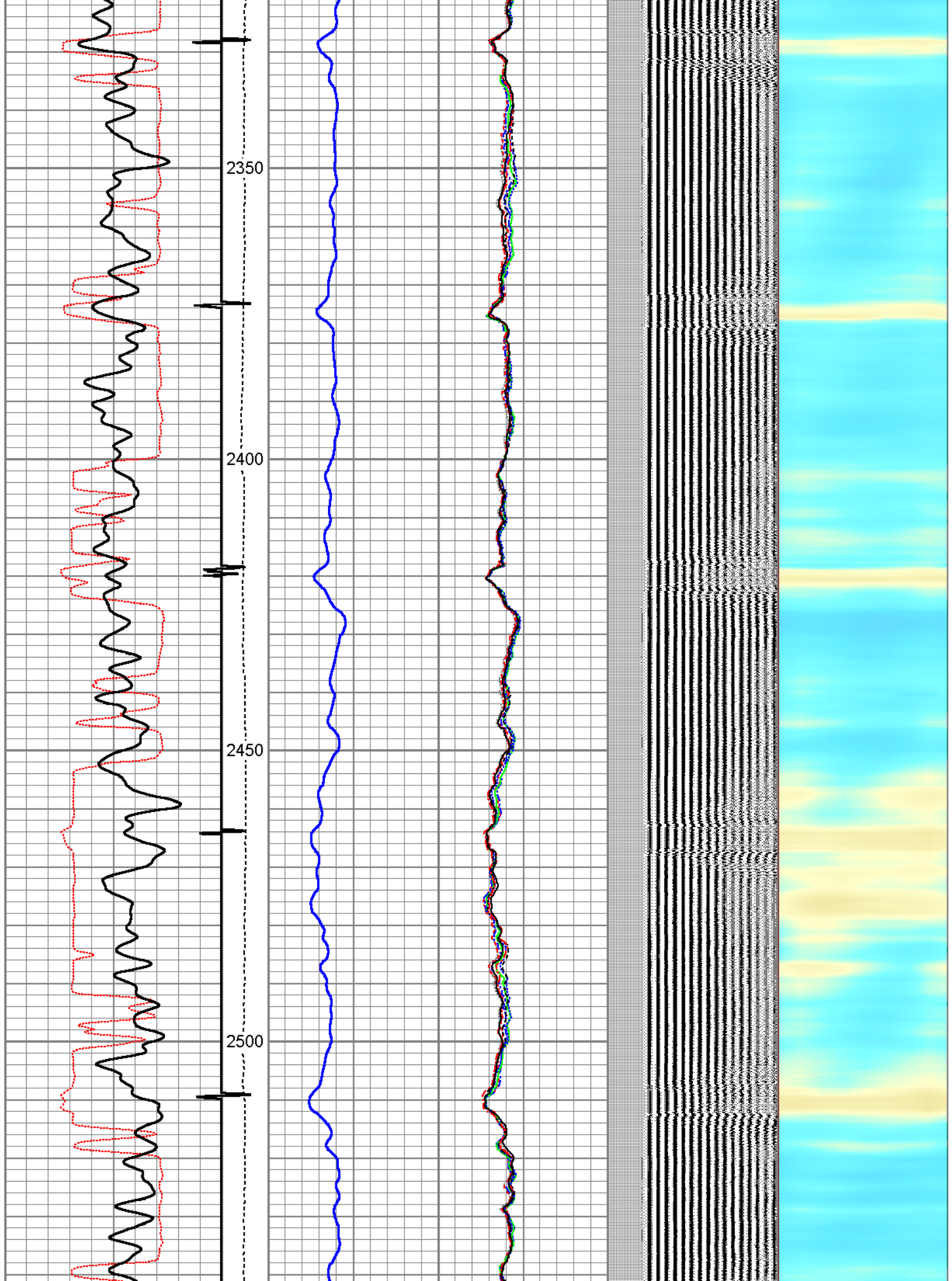


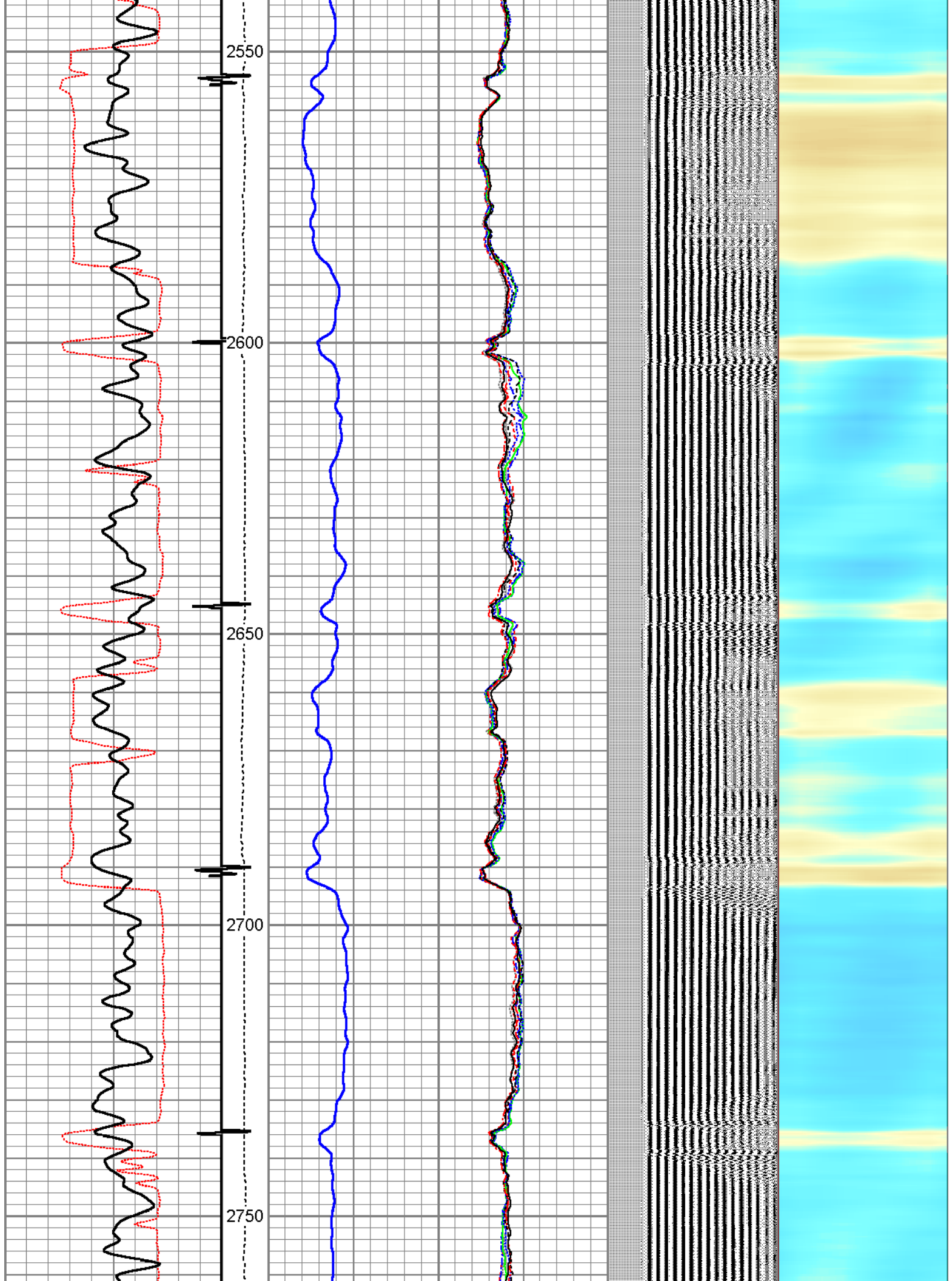


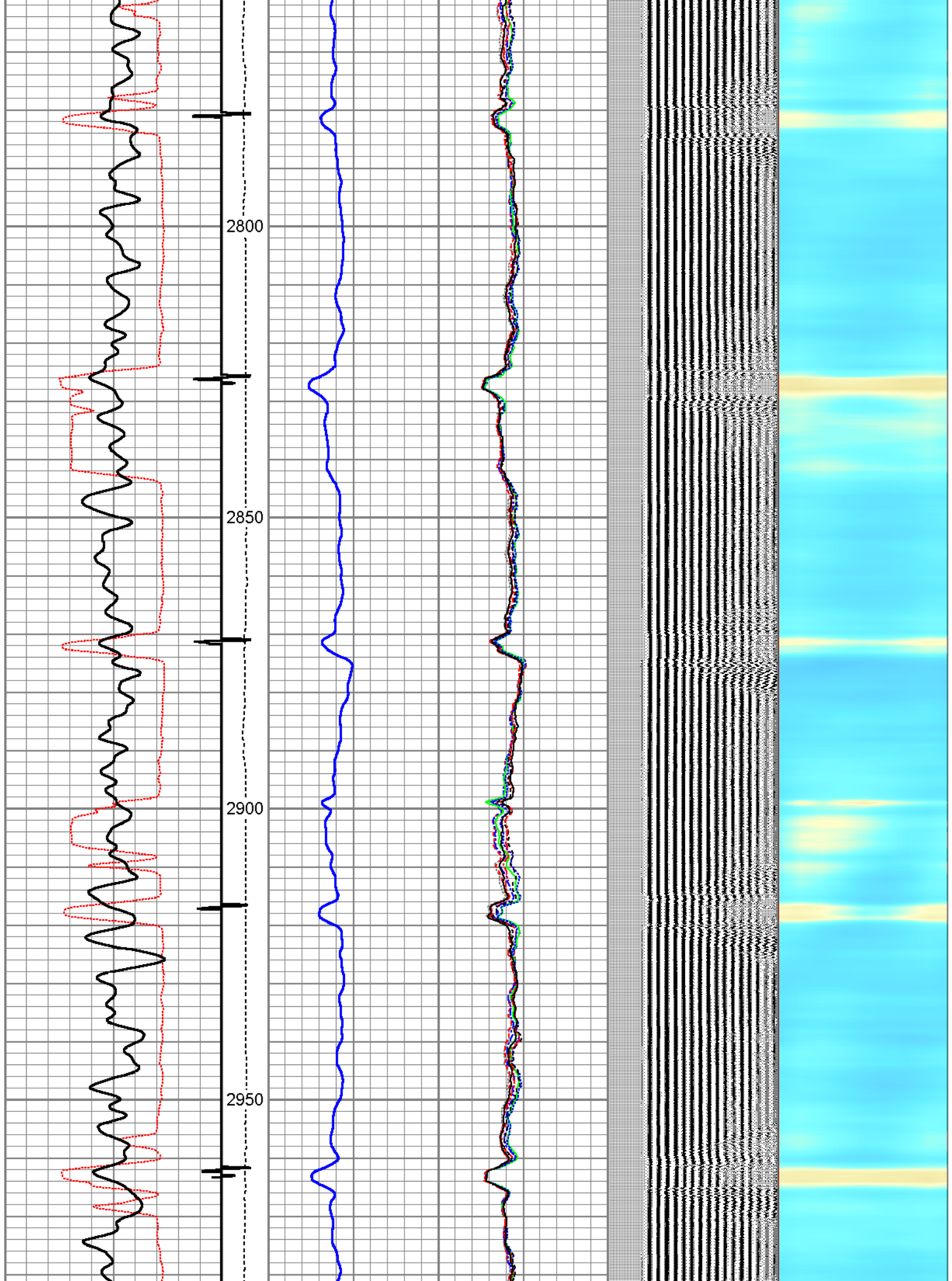


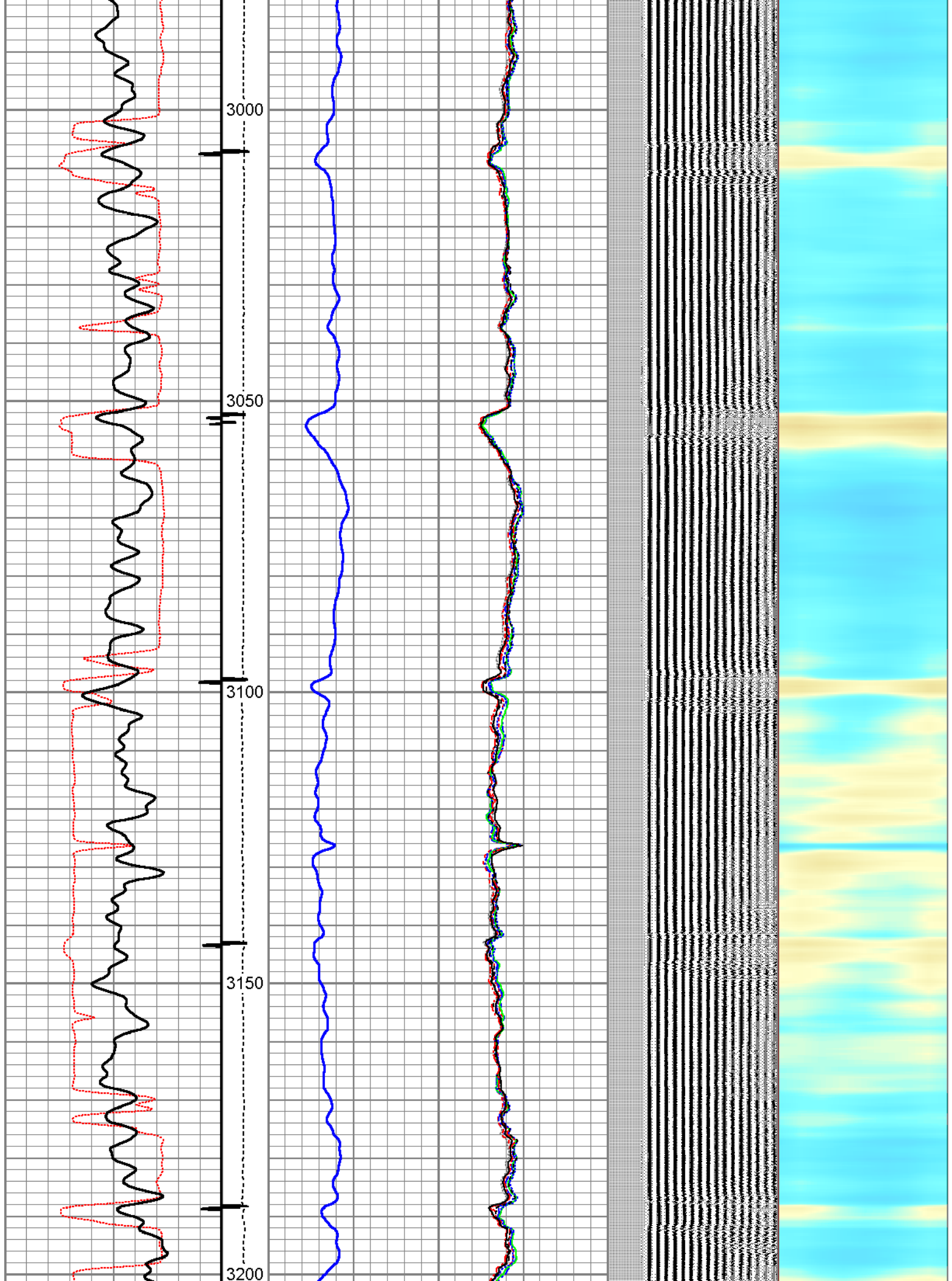


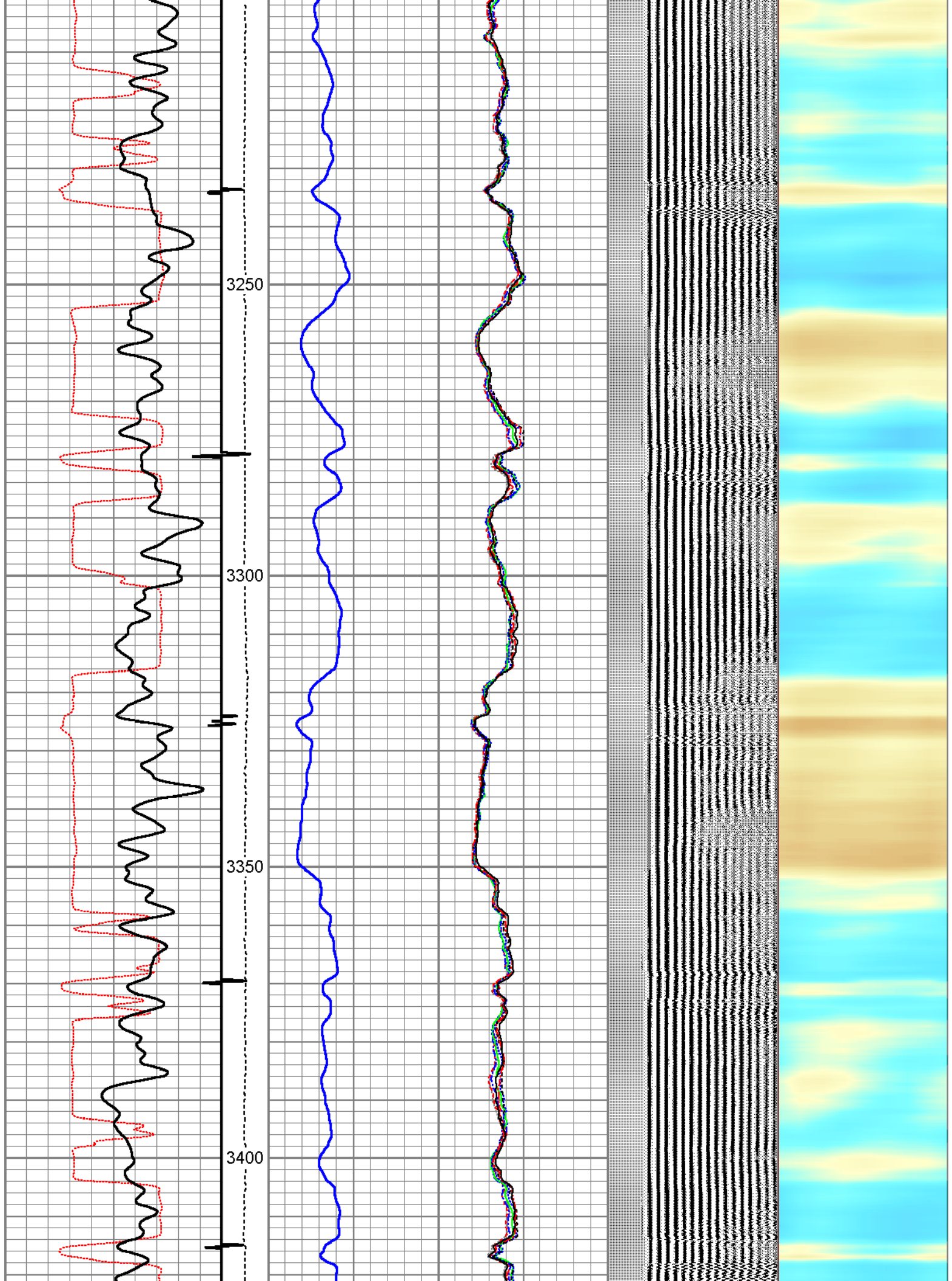


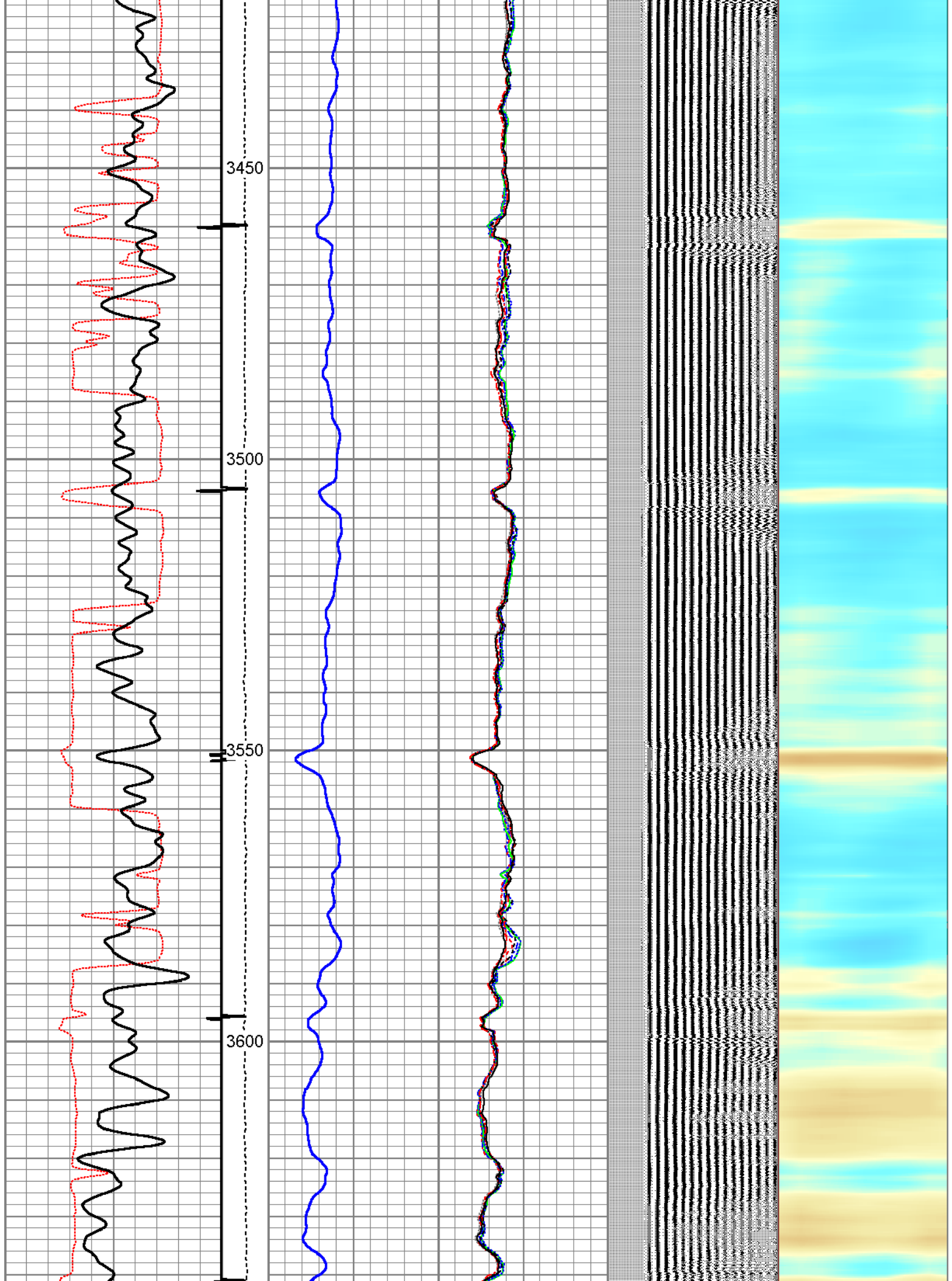


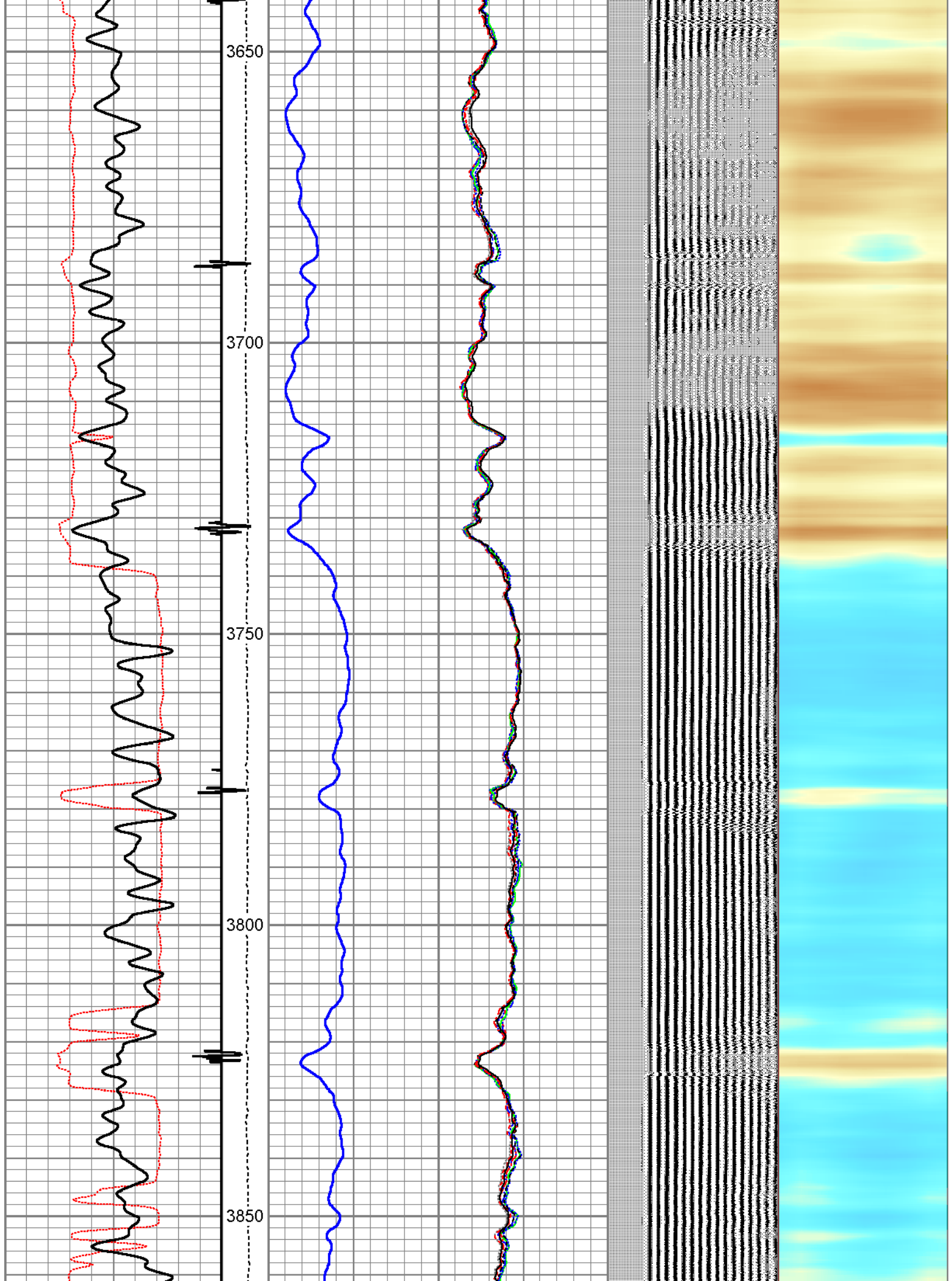


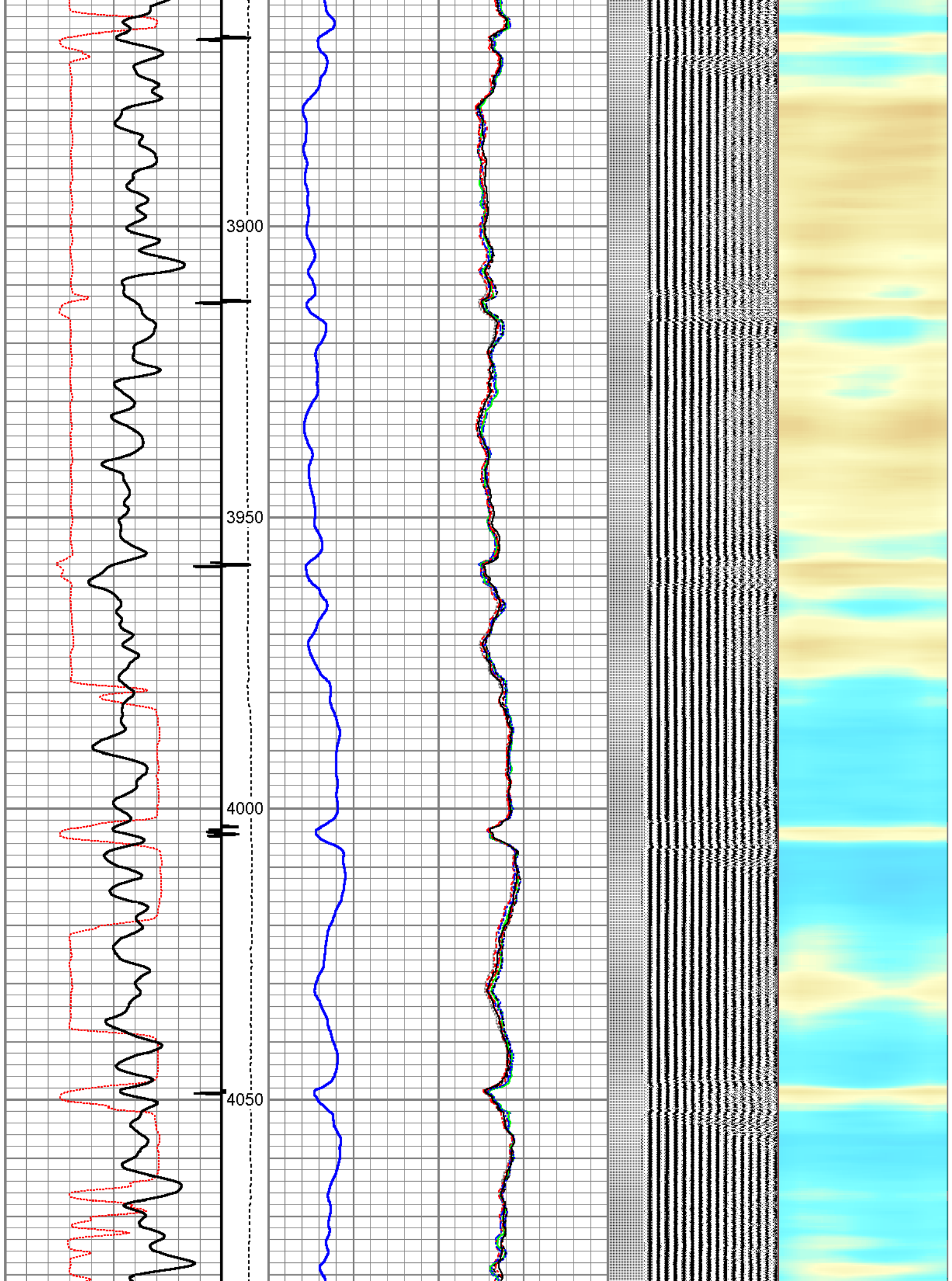


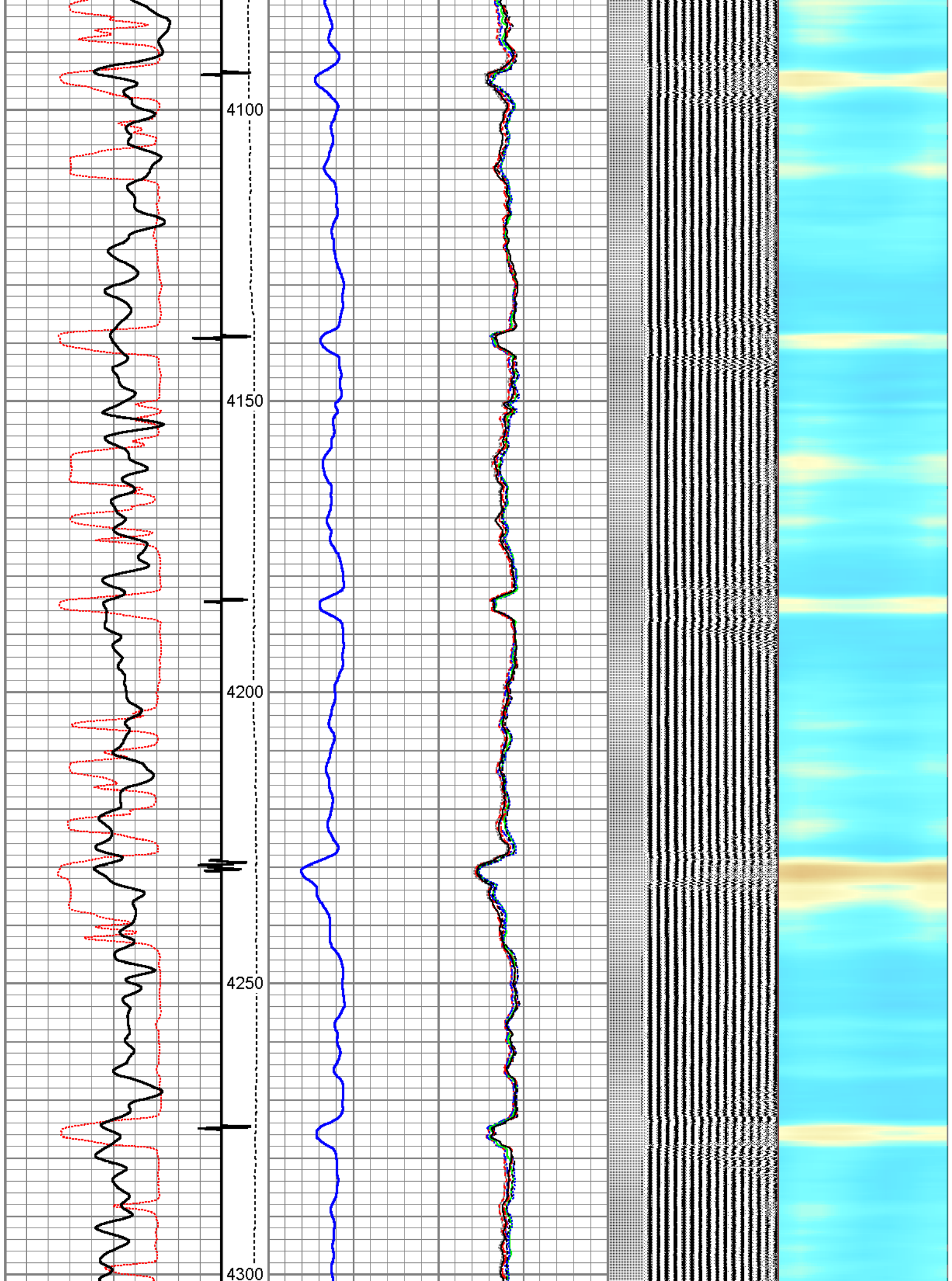


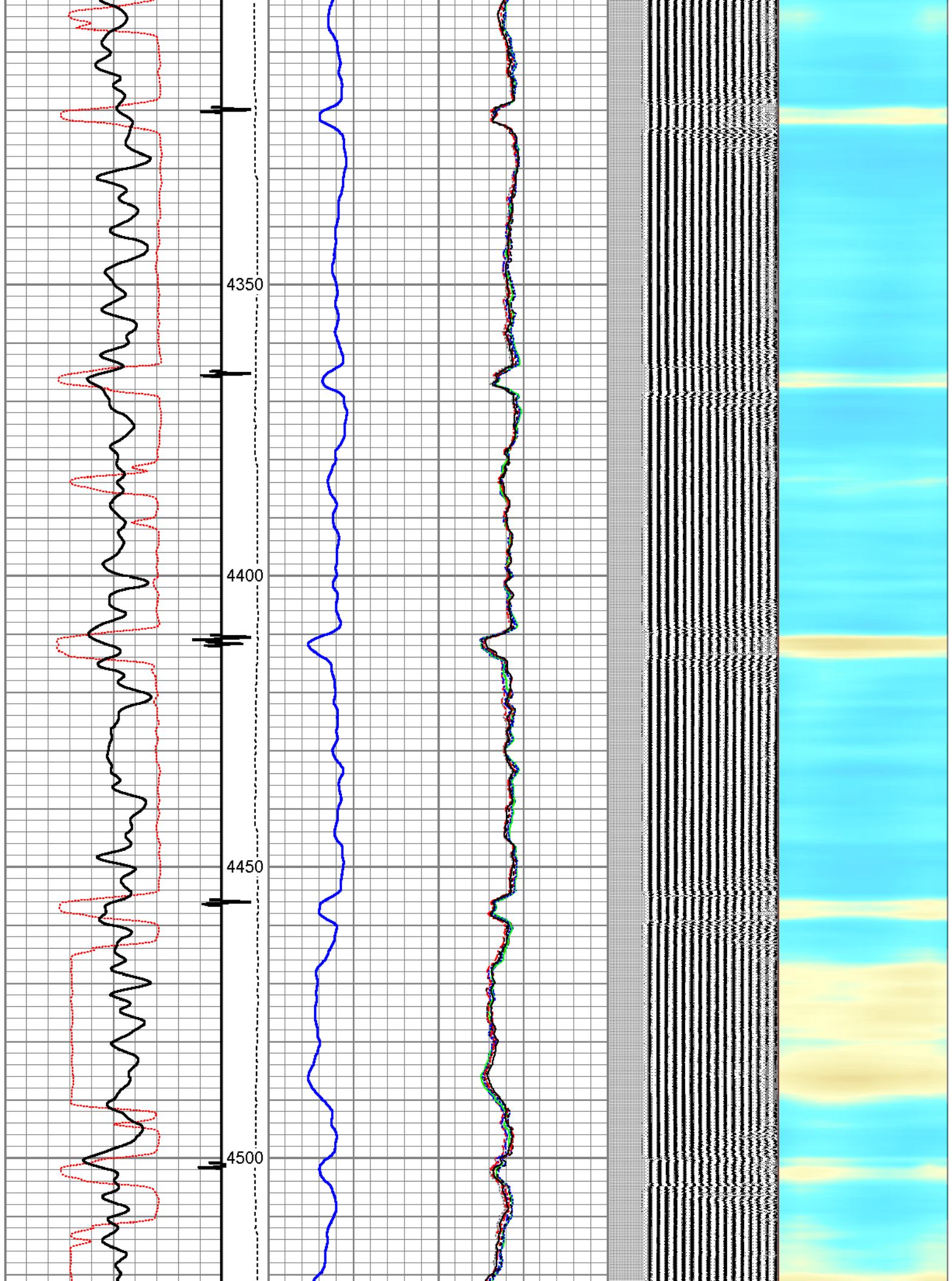


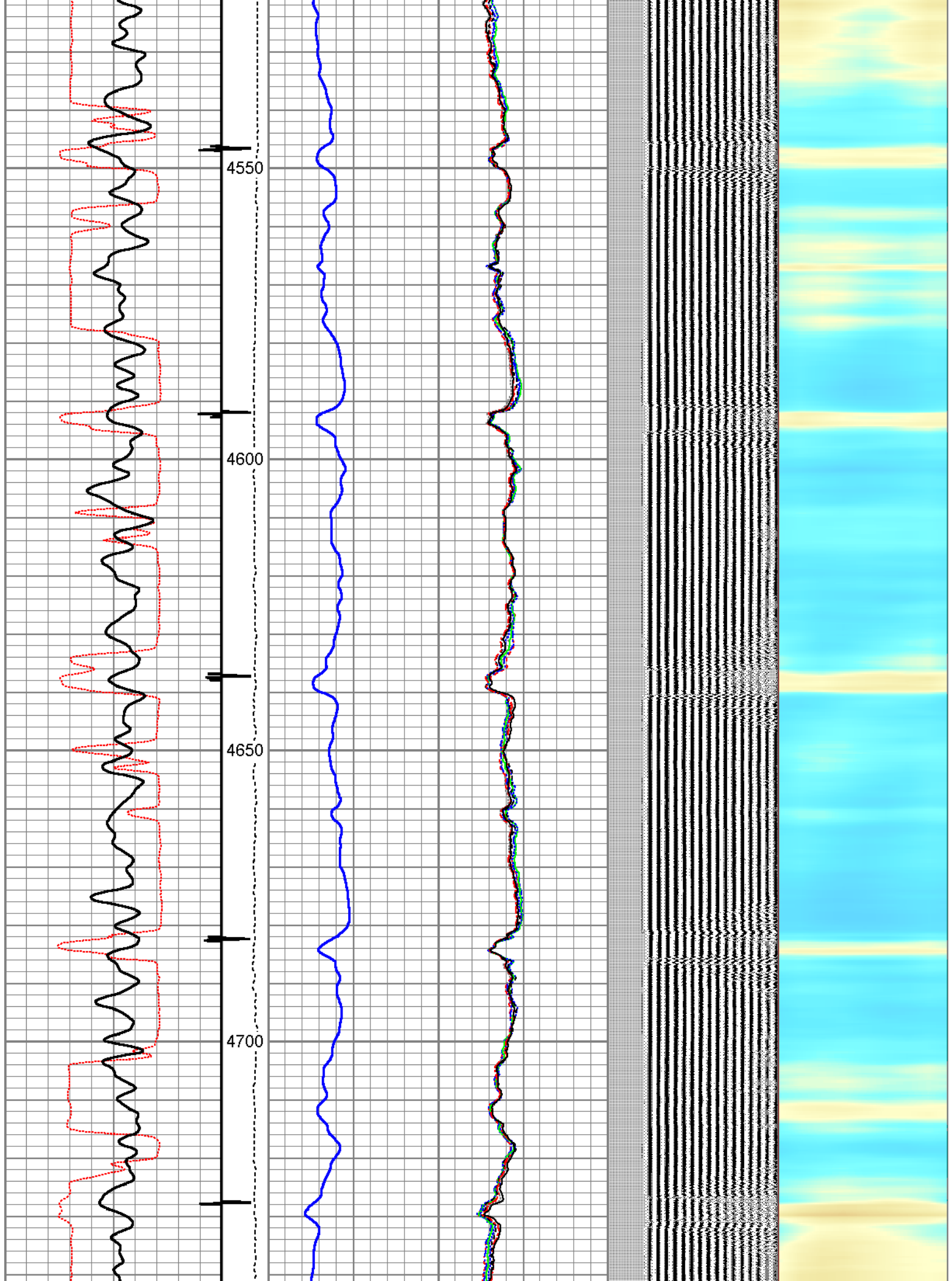


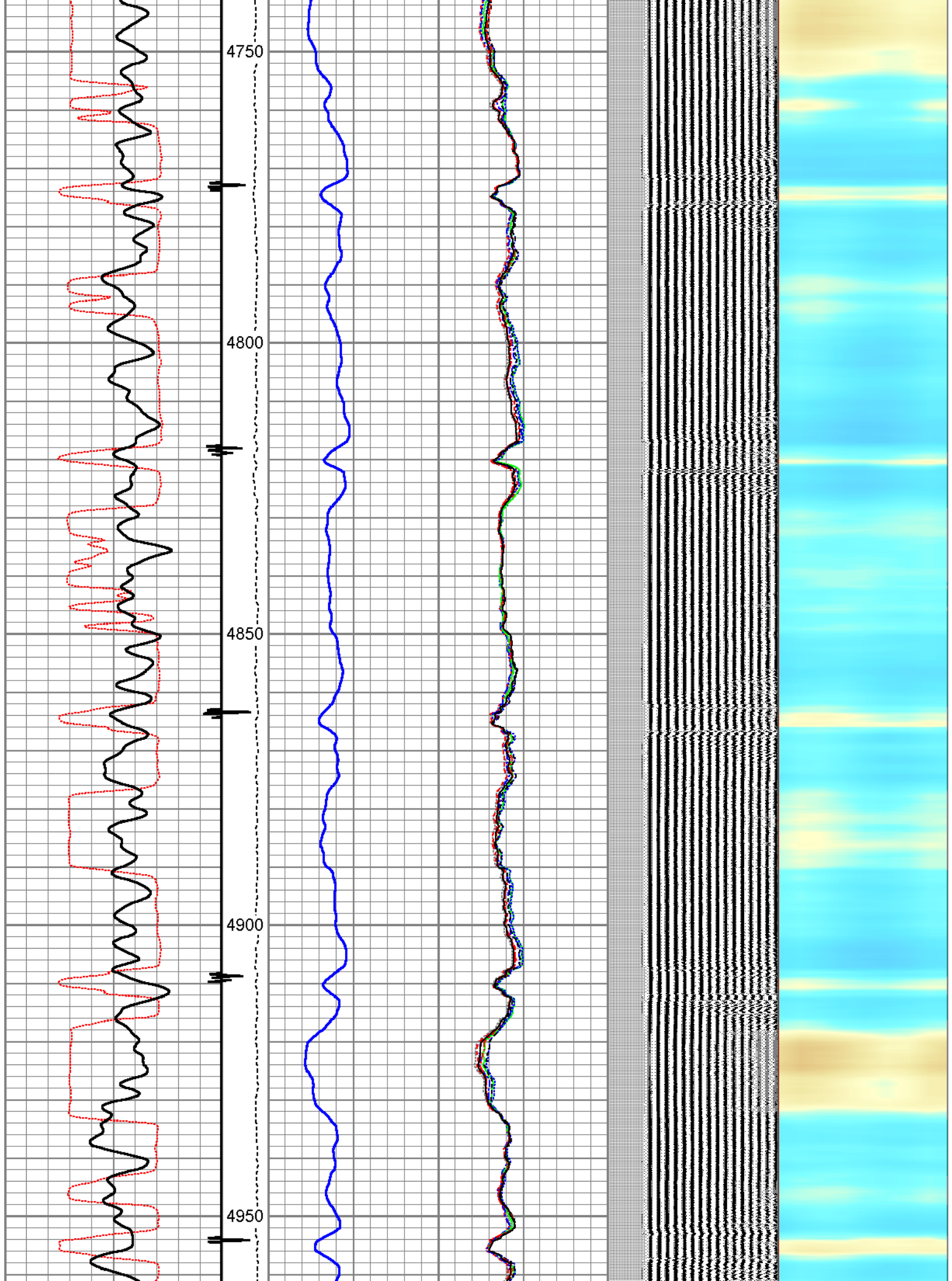


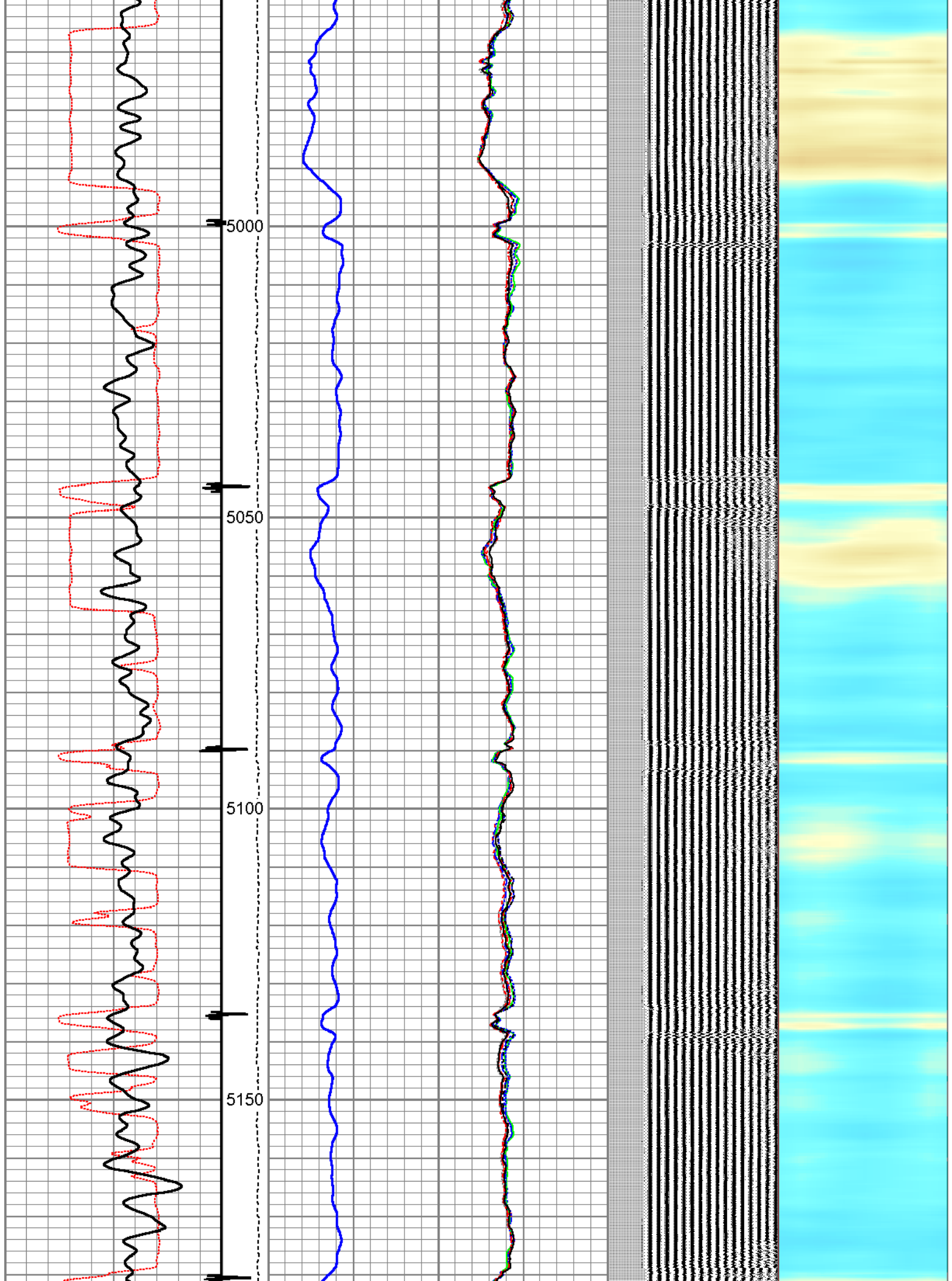


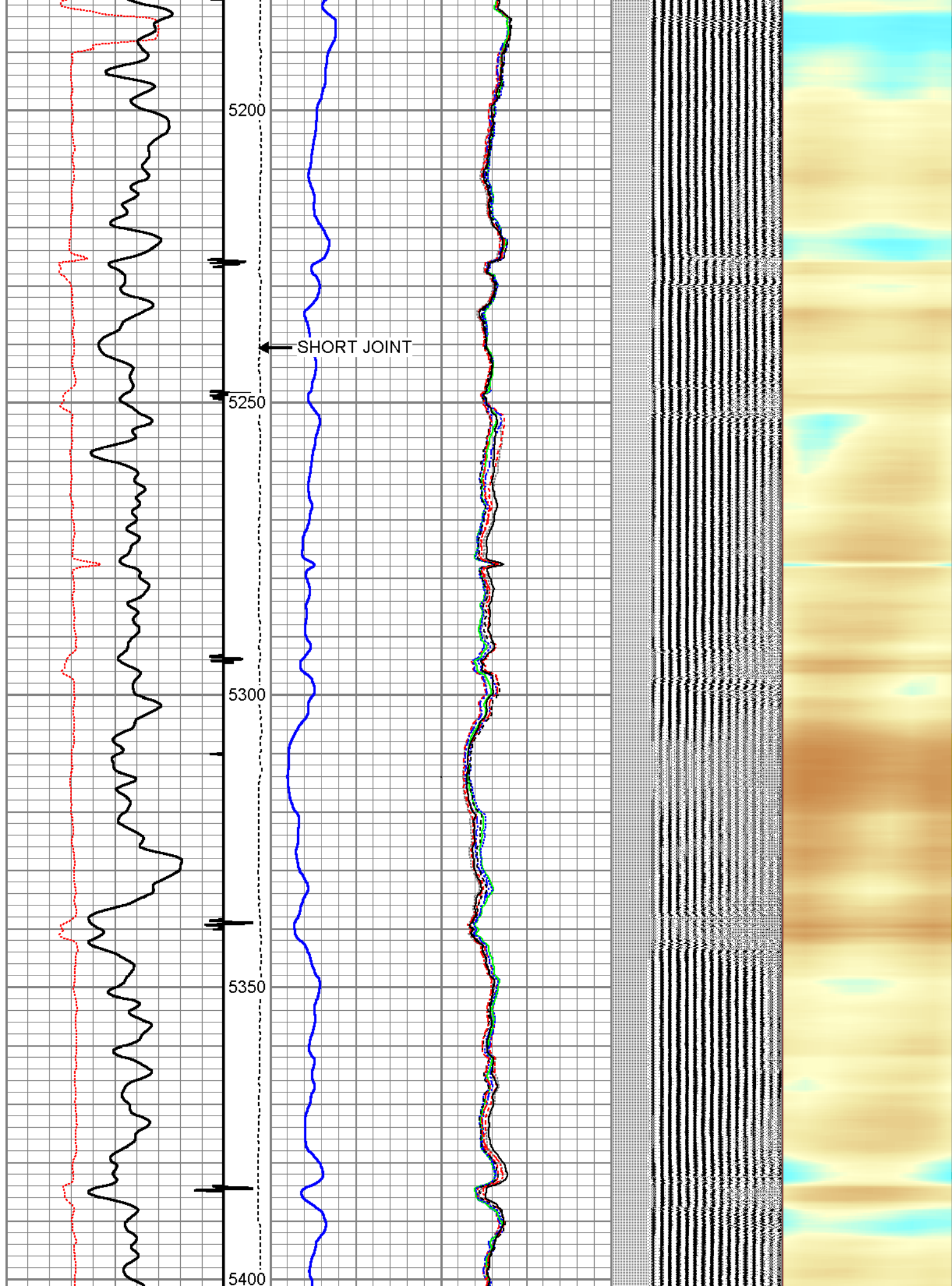


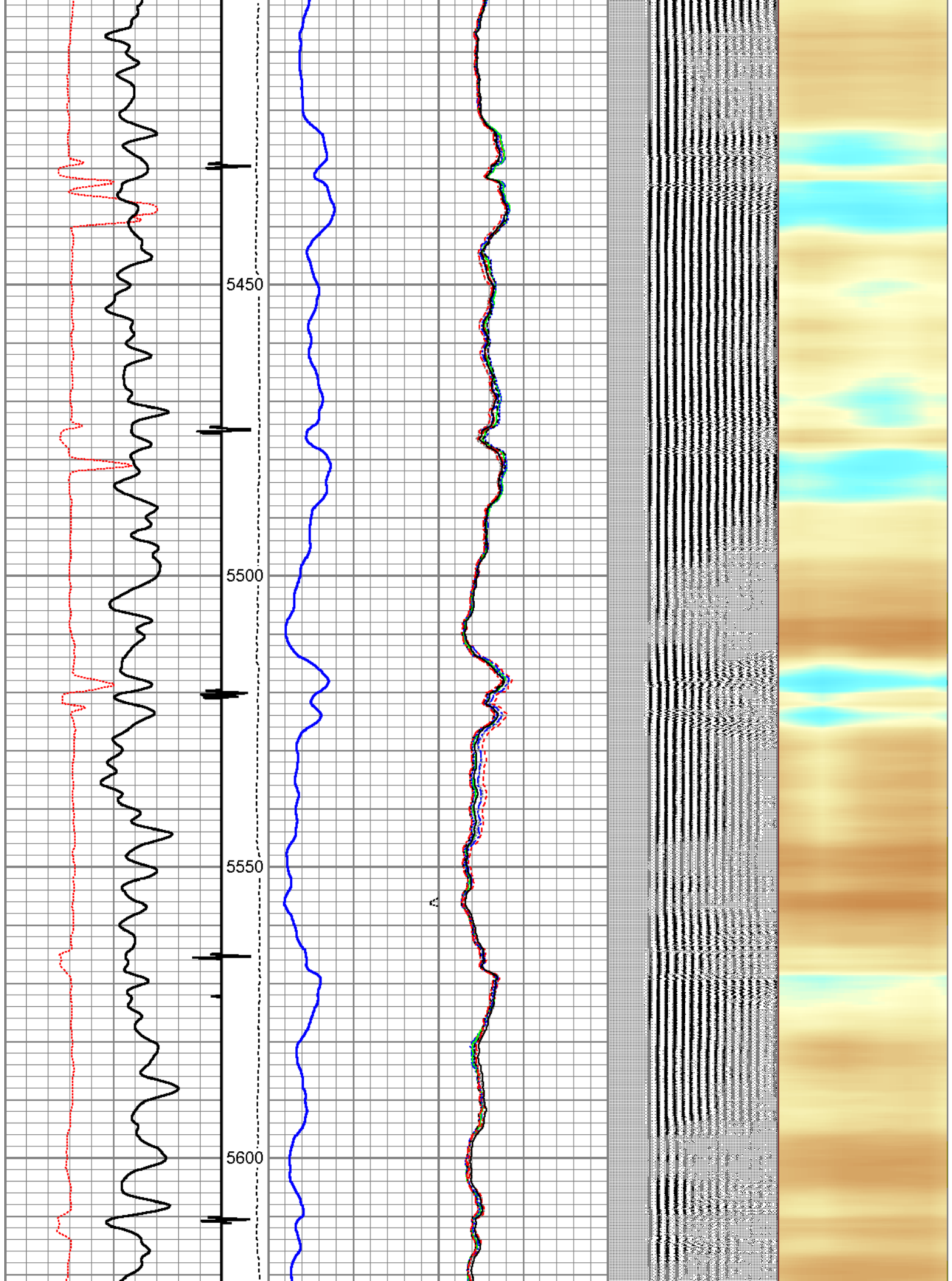


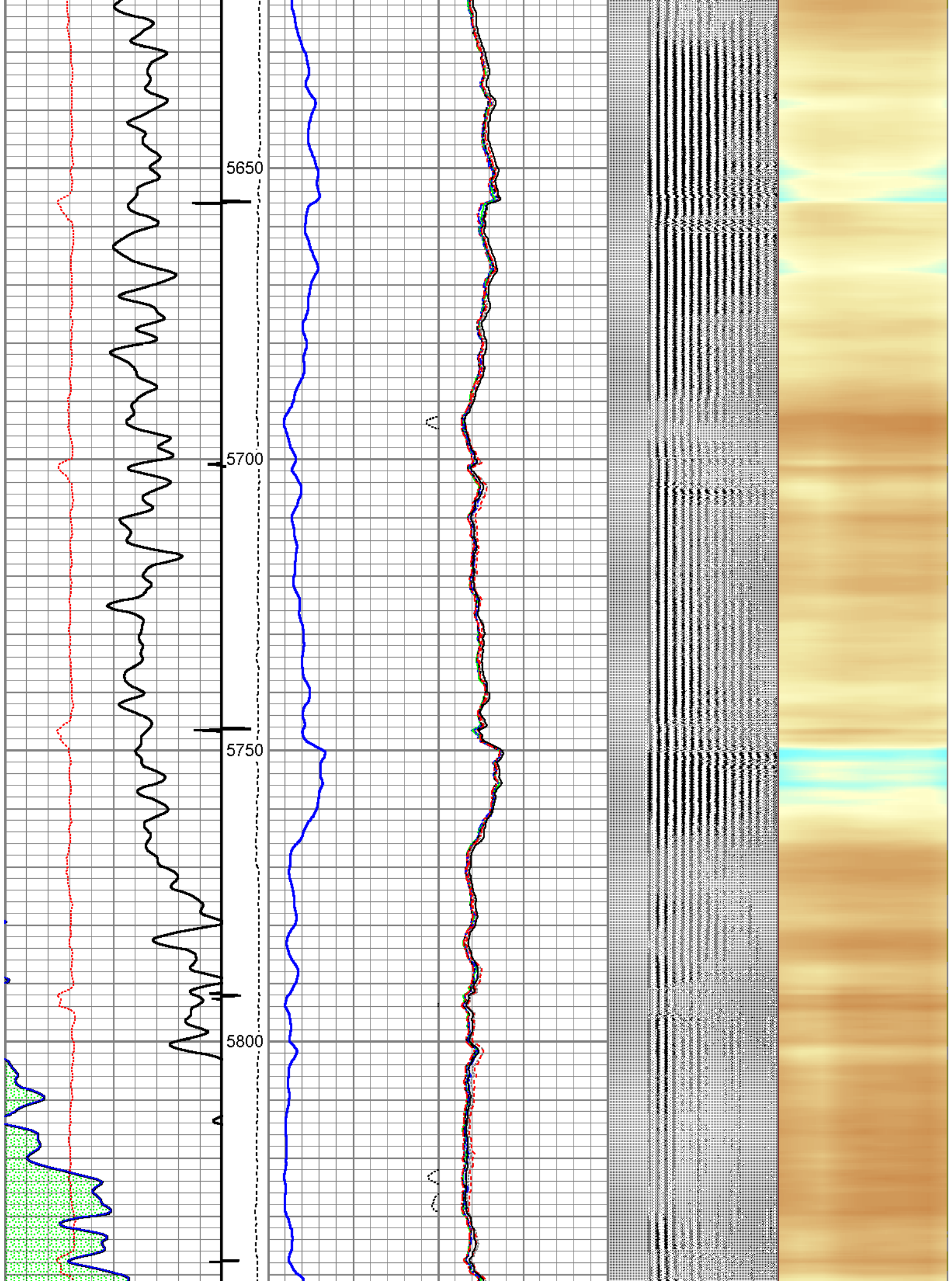


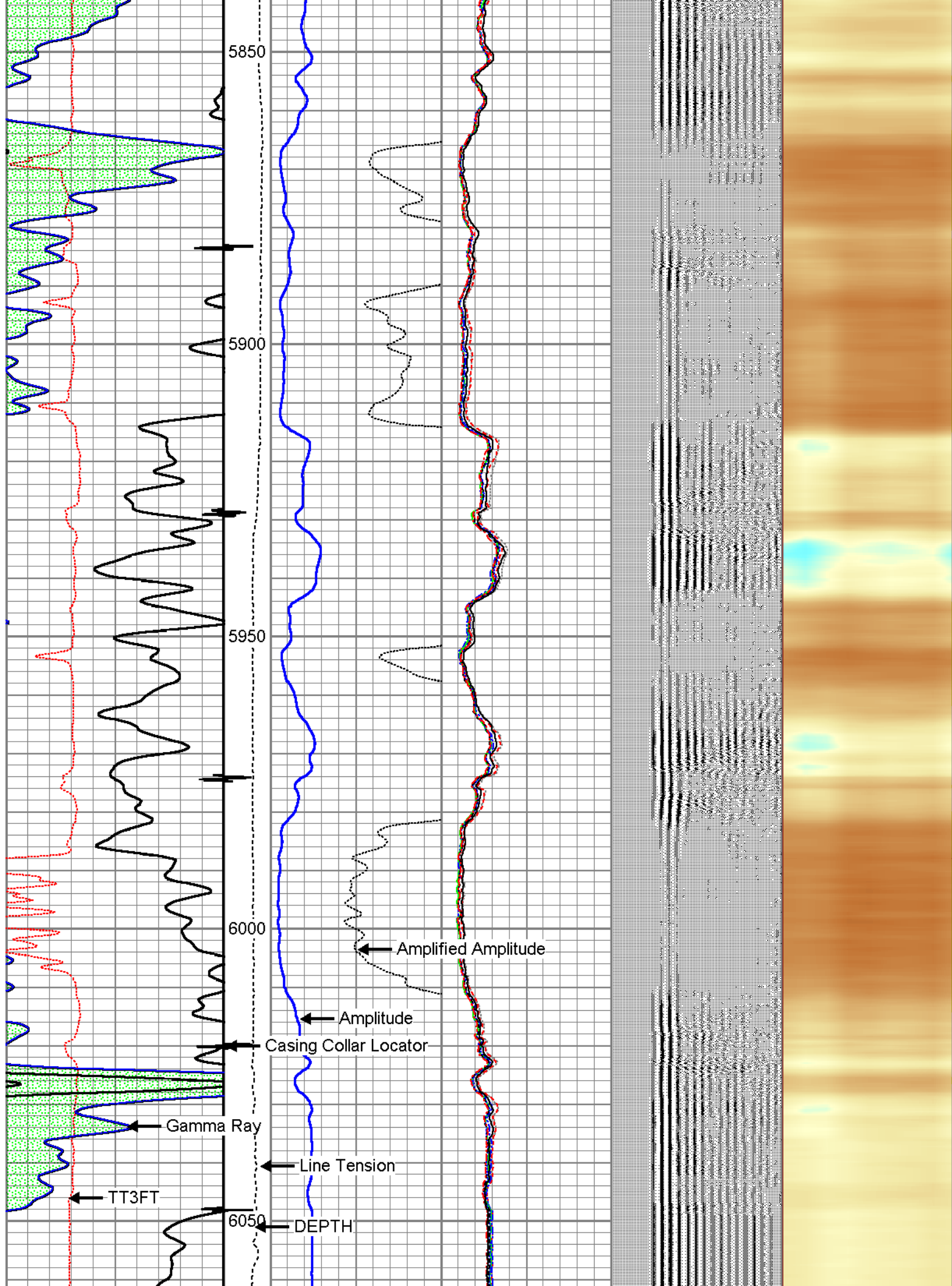


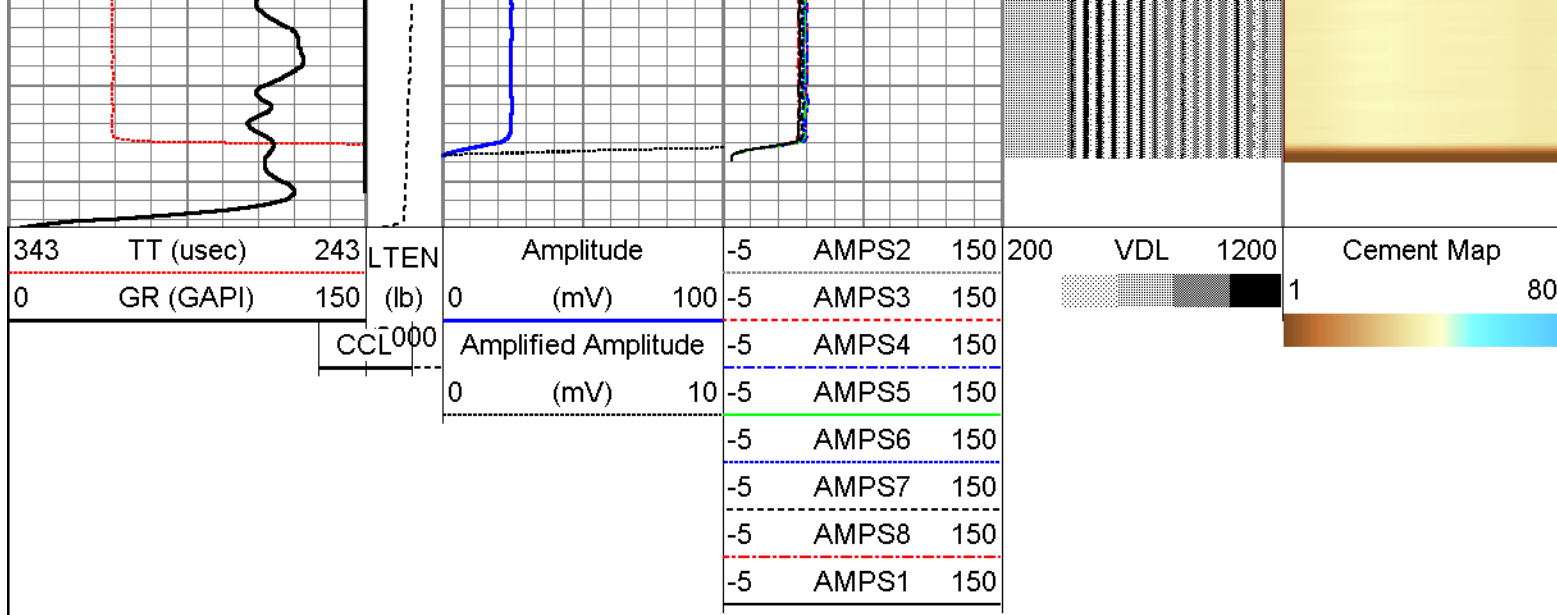








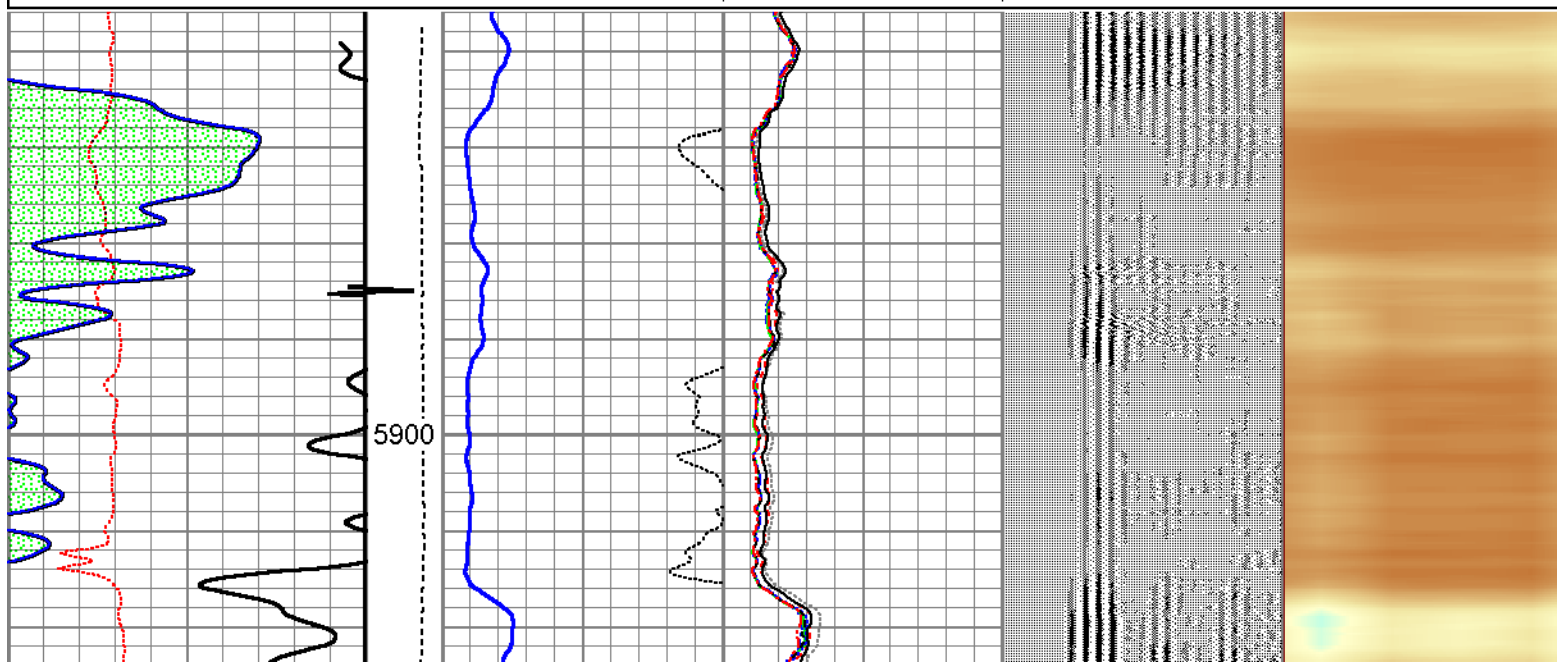
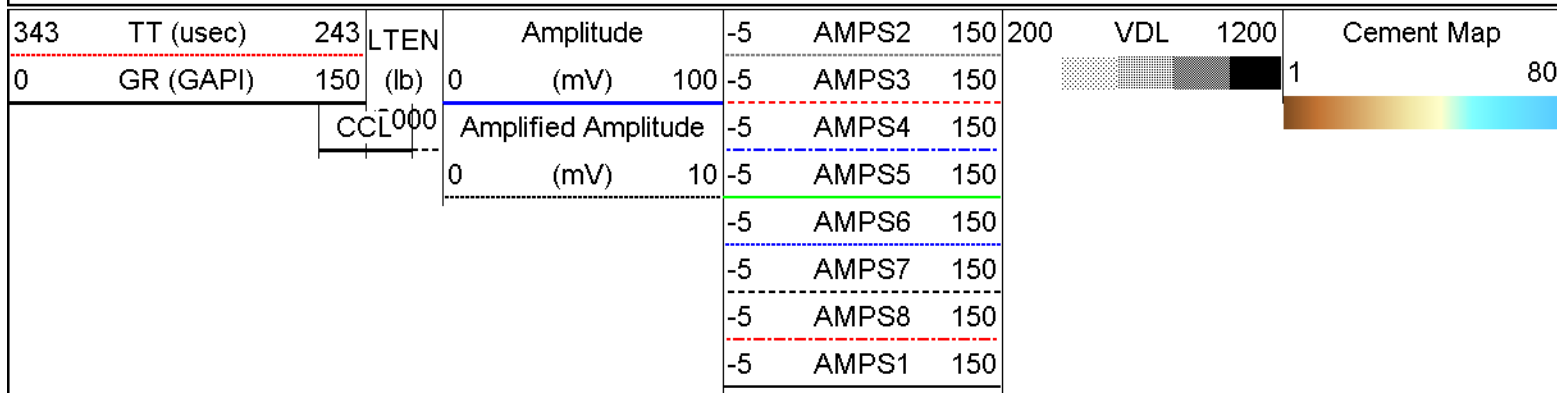


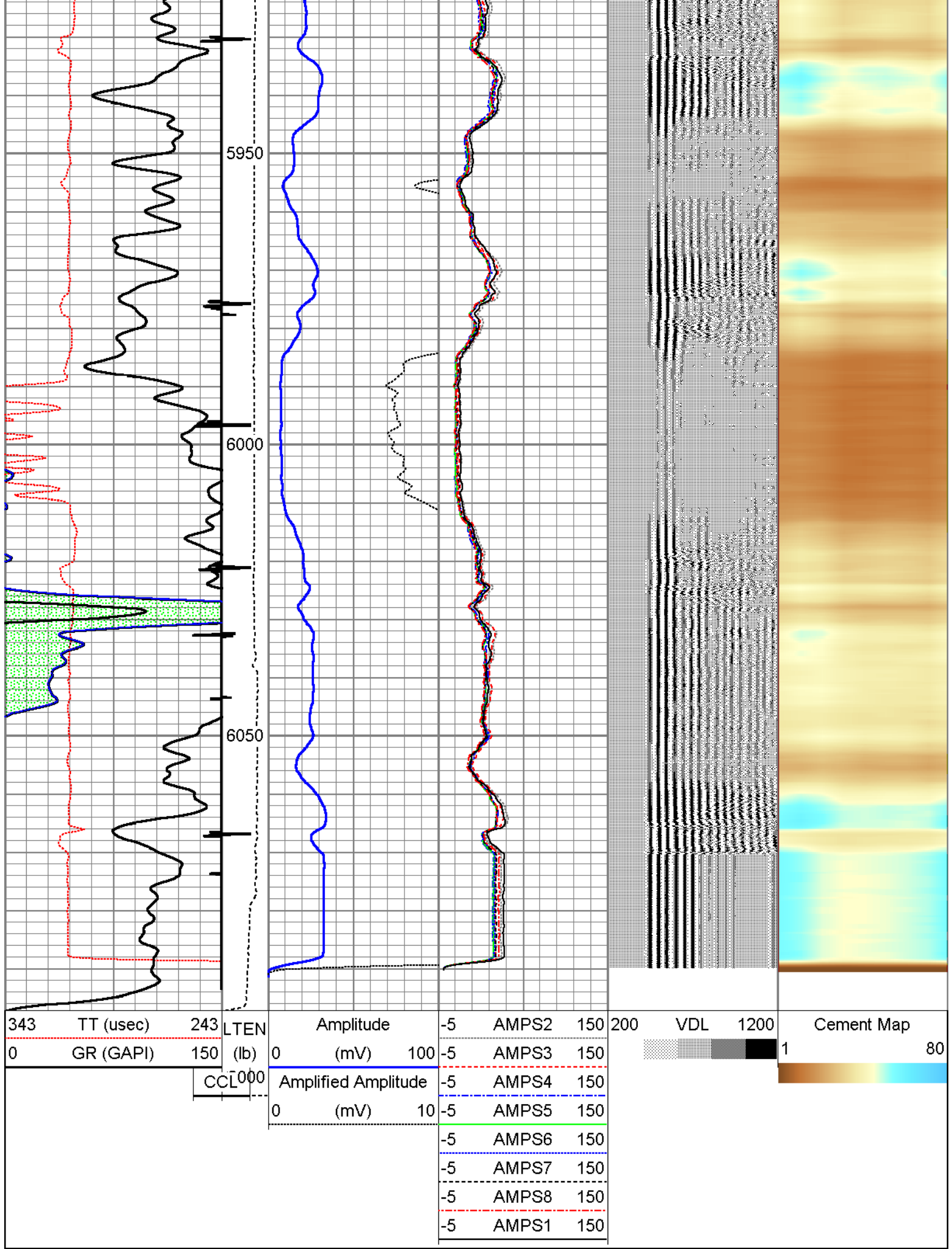


Repeat Pass

Logged with 0 psi Surface Pressure

Database File: c:\documents and settings\w059\desktop\whiting\horsetail 07e-0604 rcb\horsetail 07e-0604.db
 Dataset Pathname: pass9
 Presentation Format: rbl55
 Dataset Creation: Thu Mar 10 09:48:44 2016 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Standard Standard Cable Head	1.00	1.69	1.00
WVF3FT	8.19		RBT-Probe (060113_45) Probe 2.75" Radii Bond Tool	9.39	2.75	90.00
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					
WVF5FT	7.19					
CCL	3.50		GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00
GR	1.00					



Company	Whiting Oil & Gas
Well	Horestail 07E-0604
Field	Wild Cat
County	Weld
State	Colorado