



RADIAL CEMENT BOND LOG

Company	WARD PETROLEUM CORP.		
Well	ANDERSON 18-3-11 HC		
Field	WATTENBERG		
County	ADAMS	State	COLORADO
Location:	AP1 #: 05-001-09941-0000		Other Services
SEC 18 TWP 1S RGE 66W		NONE	
Permanent Datum	GROUND LEVEL	Elevation	5005'
Log Measured From	KELLY BUSHING = 21'	K.B.	5026'
Drilling Measured From	KELLY BUSHING	D.F.	5025'
		G.L.	5005'

Date	9 MARCH 2016		
Run Number	ONE		
Depth Driller	12600'		
Depth Logger	7688'		
Bottom Logged Interval	7688'		
Top Log Interval	SURFACE		
Open Hole Size	8-3/4"		
Type Fluid	WATER		
Density / Viscosity	~8.3#		
Max. Recorded Temp.	N/A		
Estimated Cement Top	400'		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	W-203		
Location	WINDSOR, CO		
Recorded By	Z. EMICK		
Witnessed By	M. HALL		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.5"	0'	1548'				
TWO	8-3/4"	0'	12600'				
Casing Record	Size	Vgt/Ft	Top	Bottom			
Surface String	9-5/8"	36#	0'	1548'			
Prot. String							
Production String	5.5"	20#	0'	12600'			
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

LOG NOT CORRELATED TO ANY OTHER LOG

WELL LOGGED UNDER 1000 PSI

CREW: Z. EMICK, B. MILTON, T. TRADER

THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE

Calibration Report

Database File: anderson 18-3-11 hc.db
 Dataset Pathname: pass6.1
 Dataset Creation: Wed Mar 09 15:53:43 2016 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number:	110254	
Tool Model:	275D_INC	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Inclinometer Calibration Report

Performed:	Sun Jun 13 13:33:21 1993				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	110217	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	189.183	ft

Master Calibration, performed Wed Mar 09 15:53:36 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.899	0.000	71.921	37.872	-0.001
CAL	0.000	1.458				
5'	0.000	1.831	0.000	71.921	39.269	-0.000
SUM						
S1	0.000	1.808	0.000	100.000	55.301	-0.001
S2	0.000	1.660	0.000	100.000	60.227	-0.001
S3	0.000	1.678	0.000	100.000	59.592	-0.001
S4	0.000	1.875	0.000	100.000	53.344	-0.001
S5	0.000	2.078	0.000	100.000	48.129	-0.001
S6	0.000	2.160	0.000	100.000	46.301	-0.001
S7	0.000	2.077	0.000	100.000	48.145	-0.001
S8	0.000	1.957	0.000	100.000	51.094	-0.001

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	1.458	1.000	0.000

Air Zero Calibration, performed Tue Dec 08 10:38:13 2015:


	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

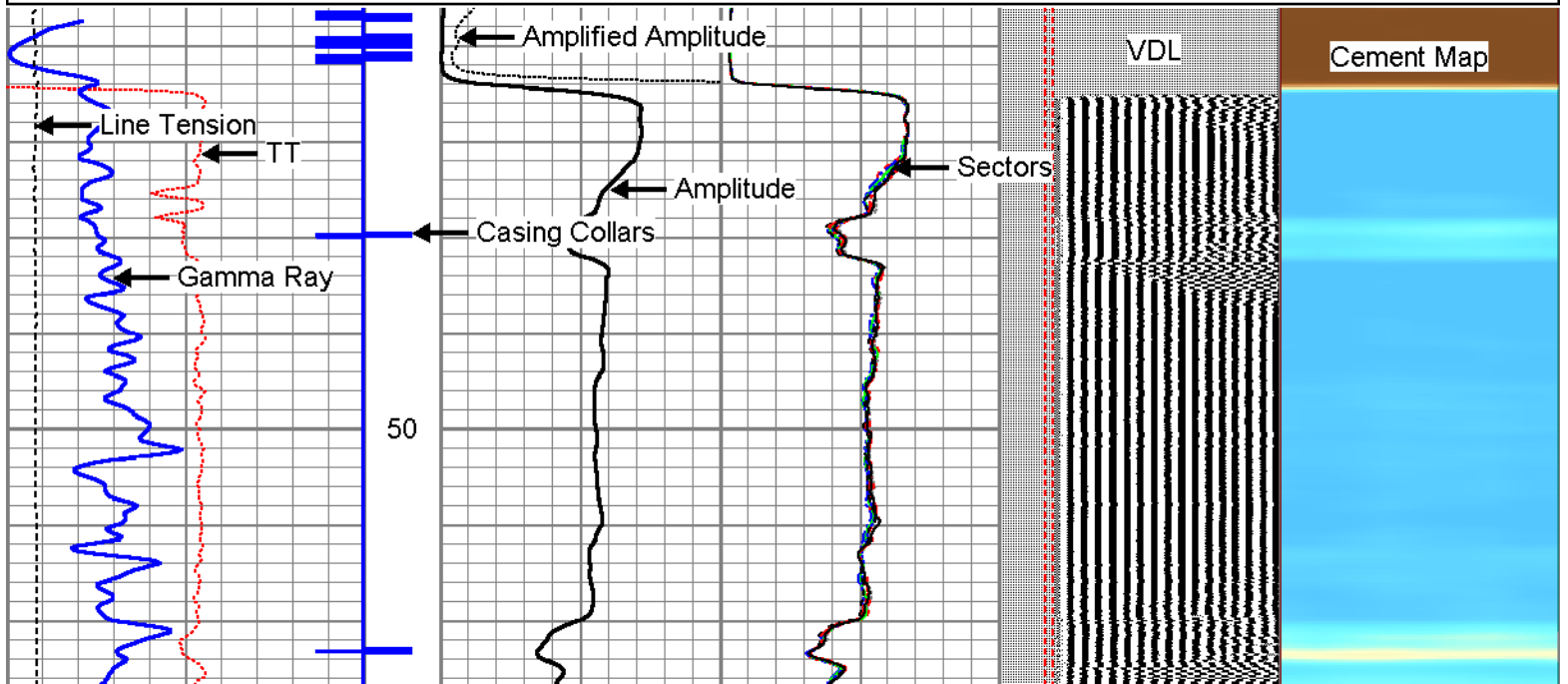


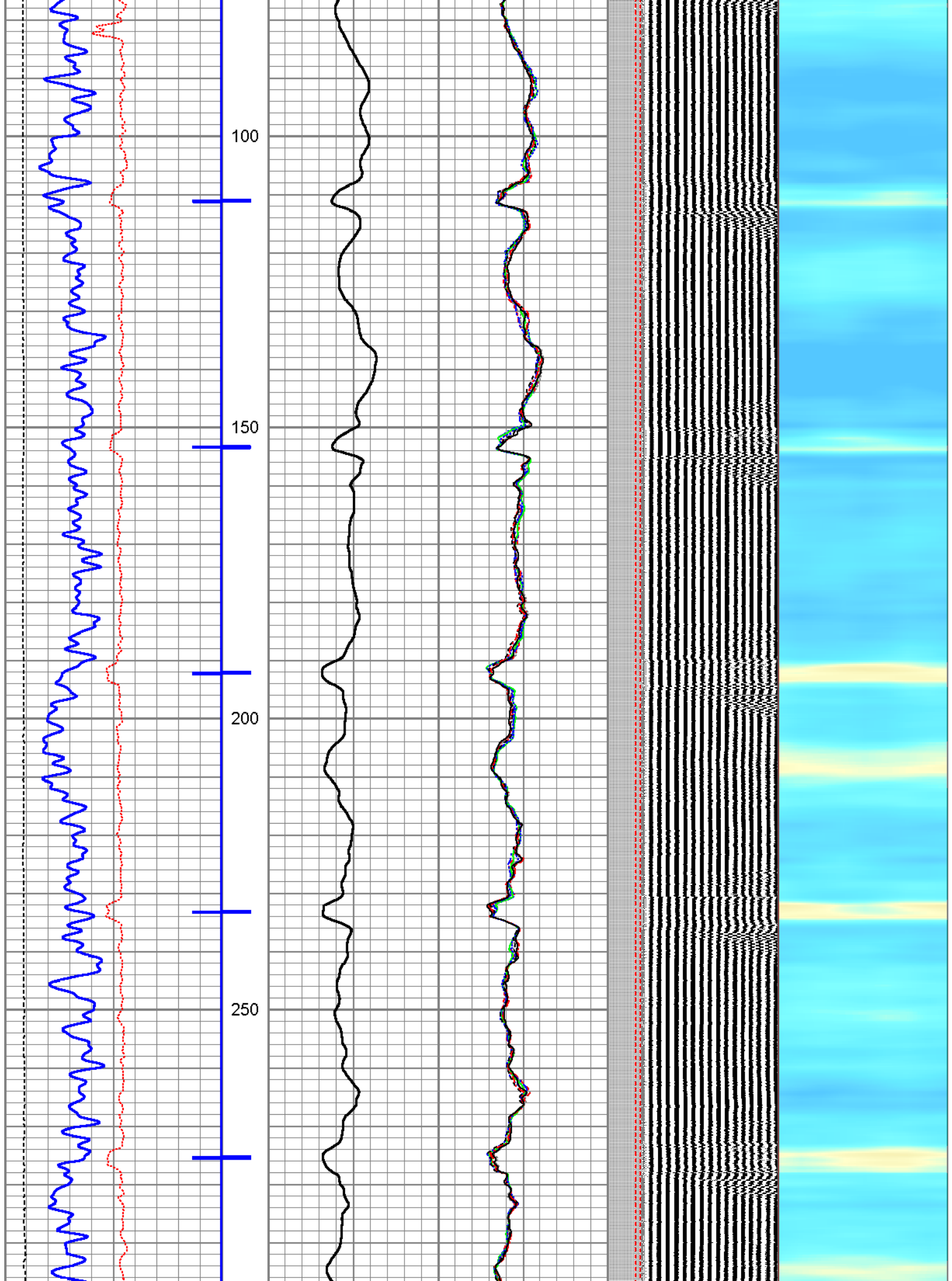
MAIN PASS 1000 PSI

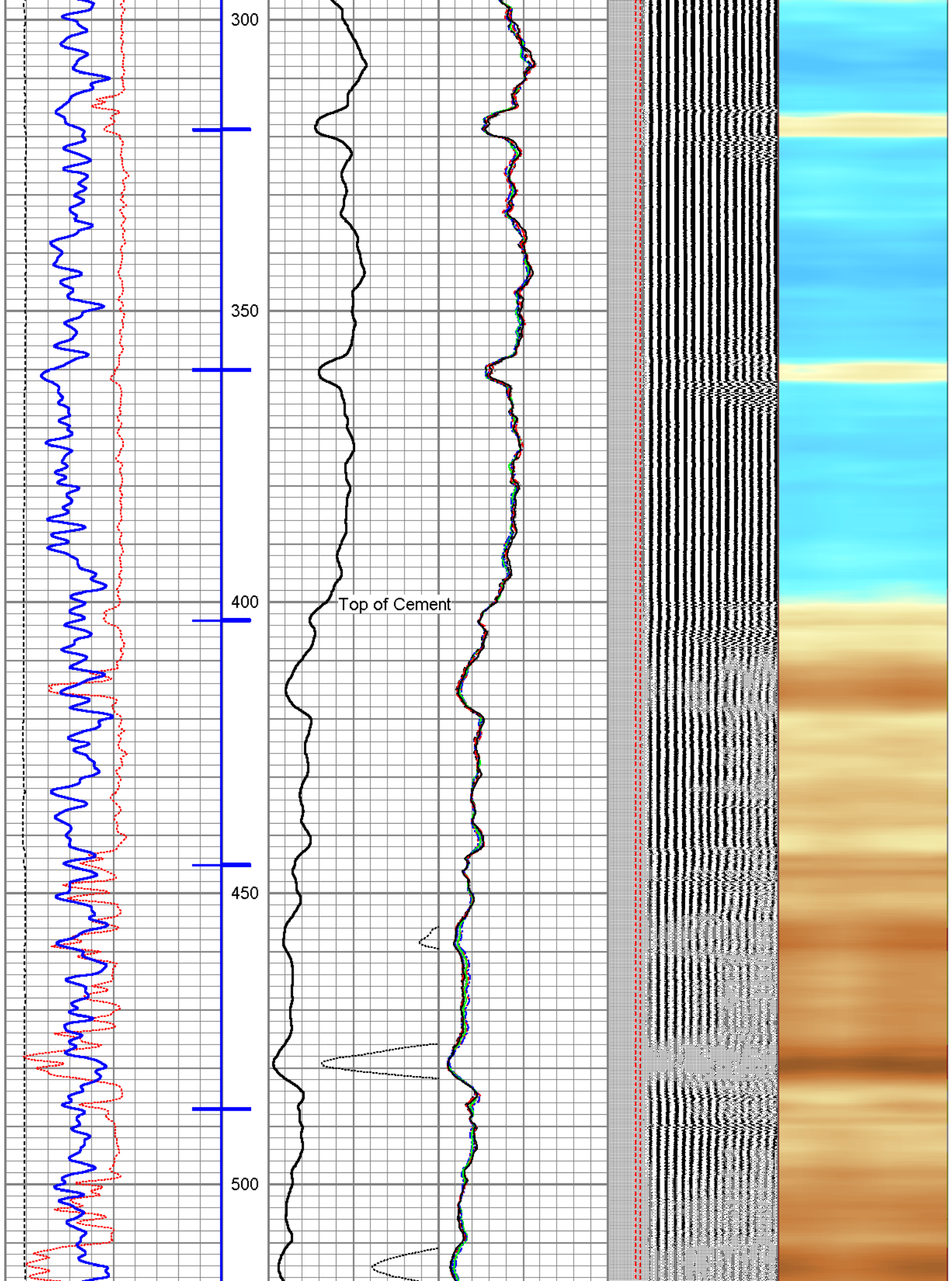
5" = 100'

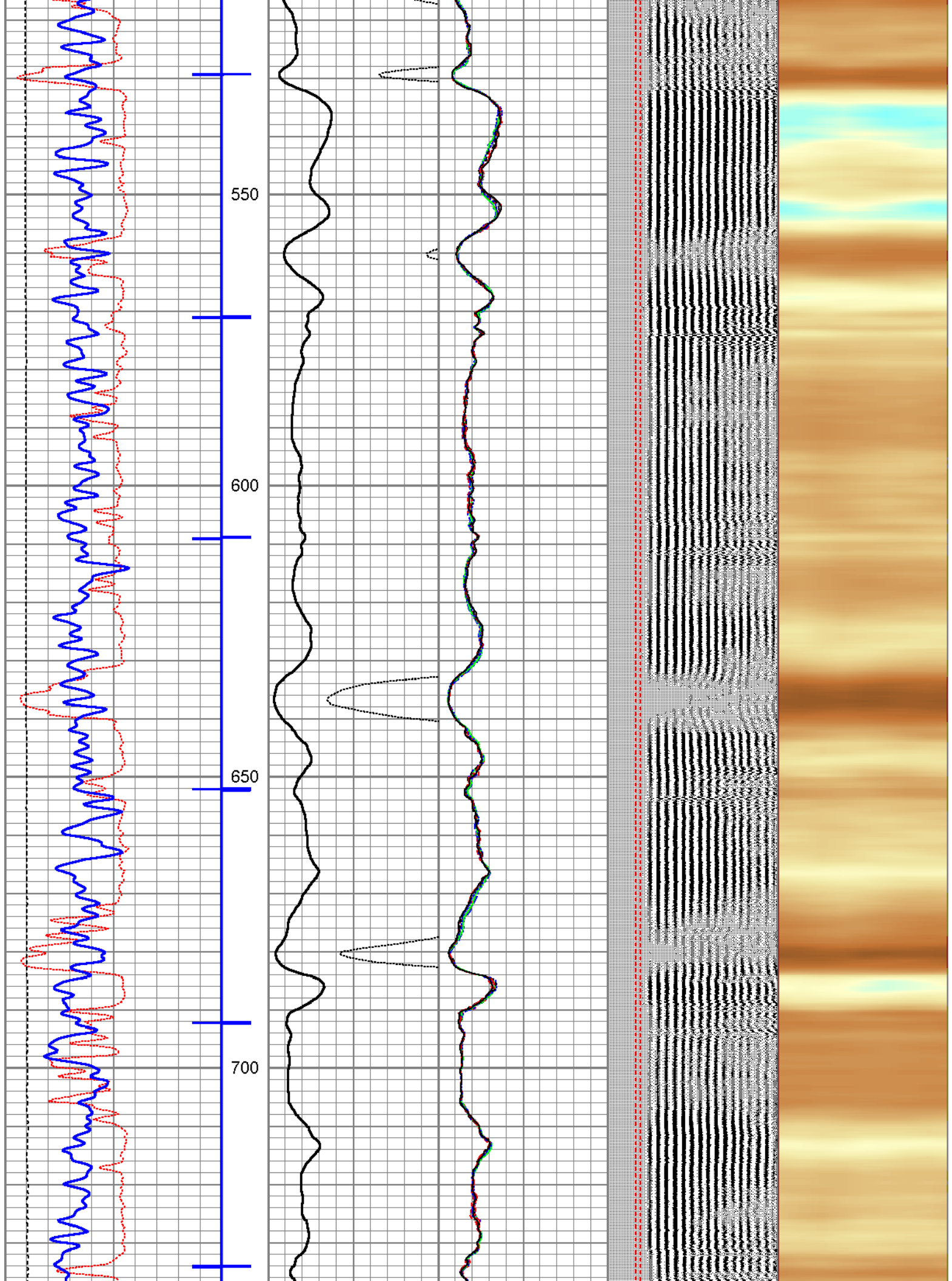
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 Dataset Pathname: pass6.2
 Presentation Format: scbl4_5
 Dataset Creation: Thu Mar 10 17:45:01 2016 by Calc Std Casedhole 09061
 Charted by: Depth in Feet scaled 1:240

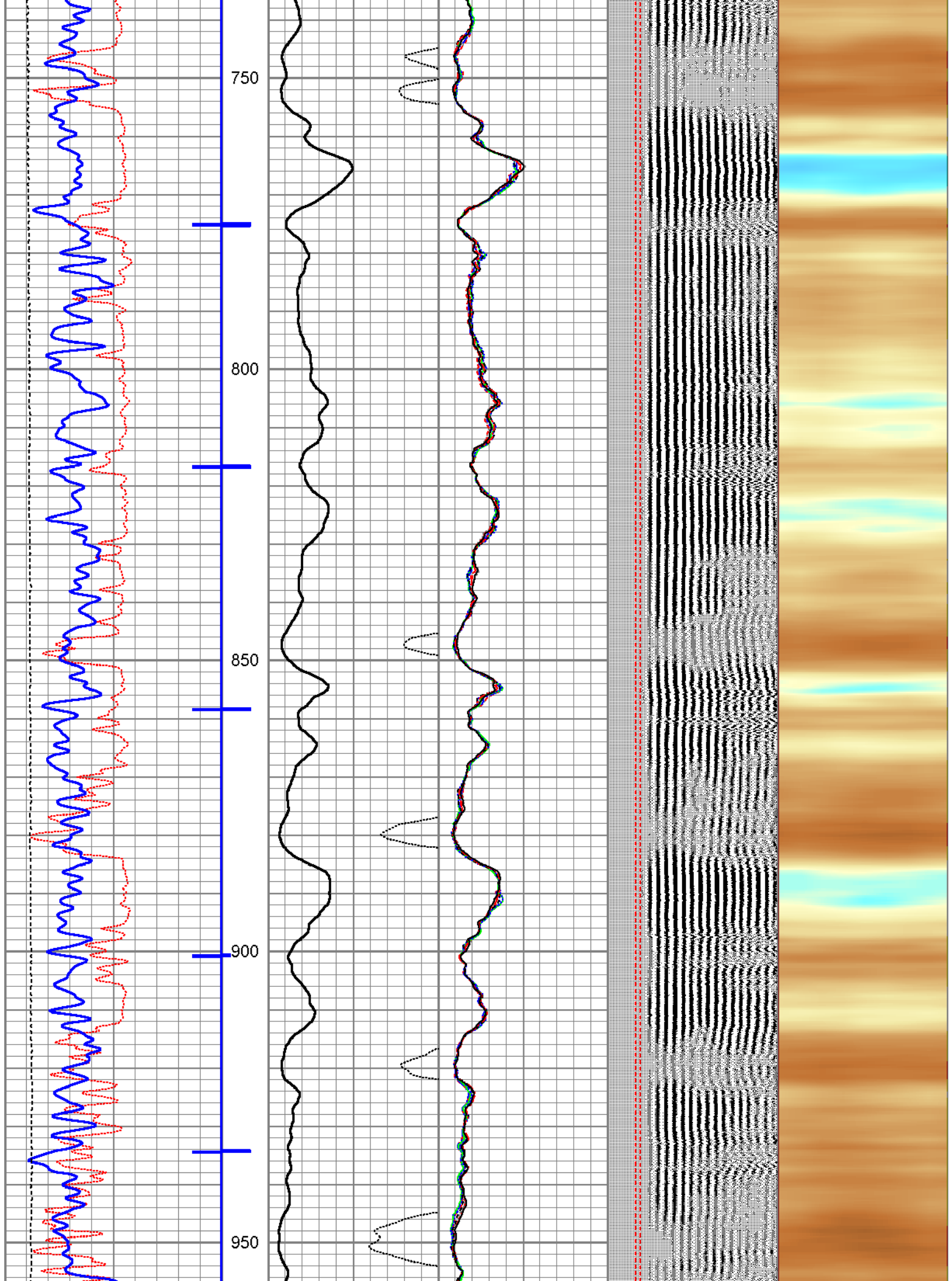
325	TT (usec)	225	Amplitude	-5	AMPS2	150	200	VDL	1200	Cement Map
0	GR (GAPI)	200	(mV)	100	-5	AMPS3	150		1	80
0	LTEN (lb)	3000	Amplified Amplitude	-5	AMPS4	150	Free Pipe Section			
			(mV)	10	-5	AMPS5	150			
					-5	AMPS6	150			
					-5	AMPS7	150			
					-5	AMPS8	150			
					-5	AMPS1	150			

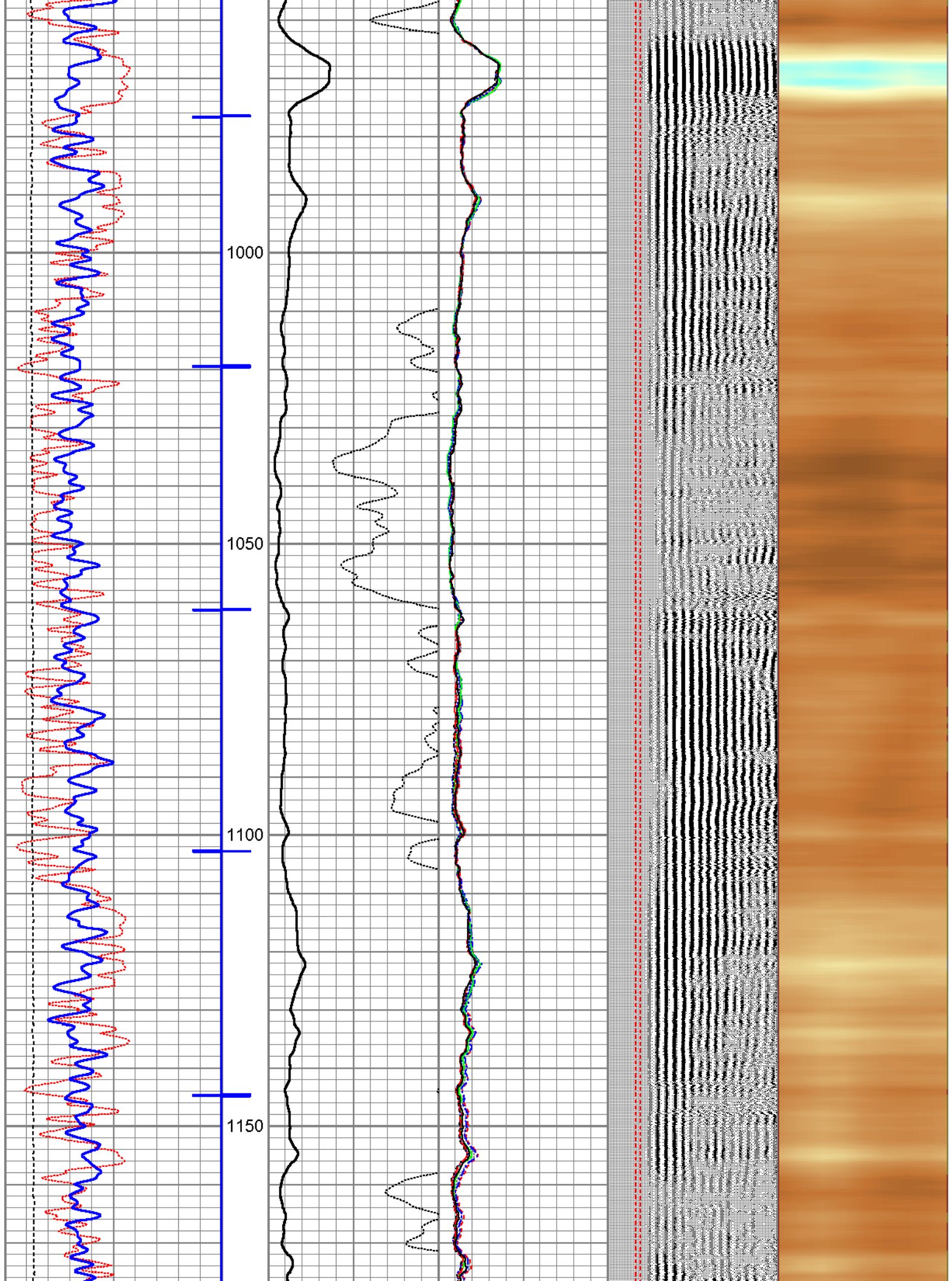


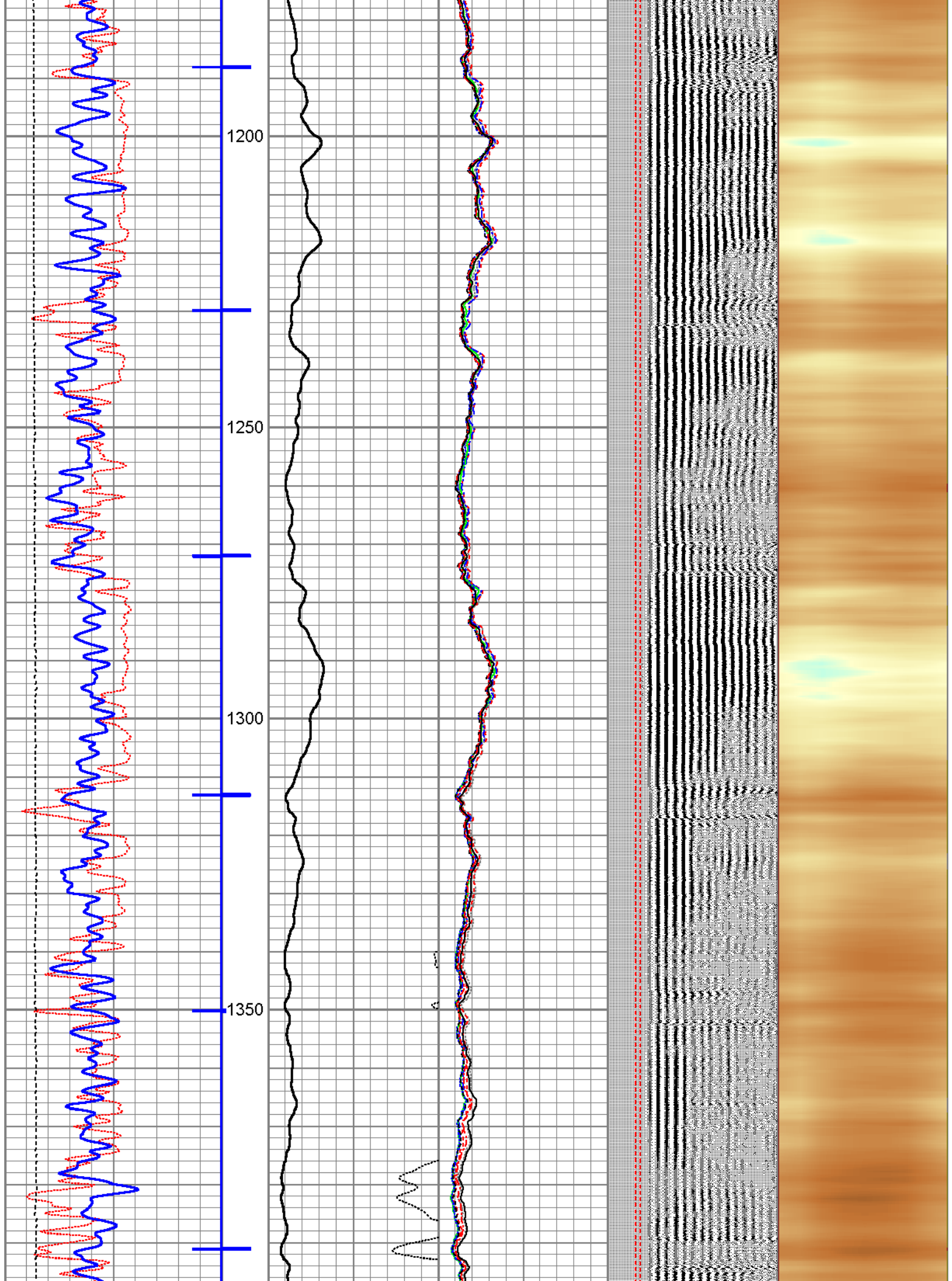


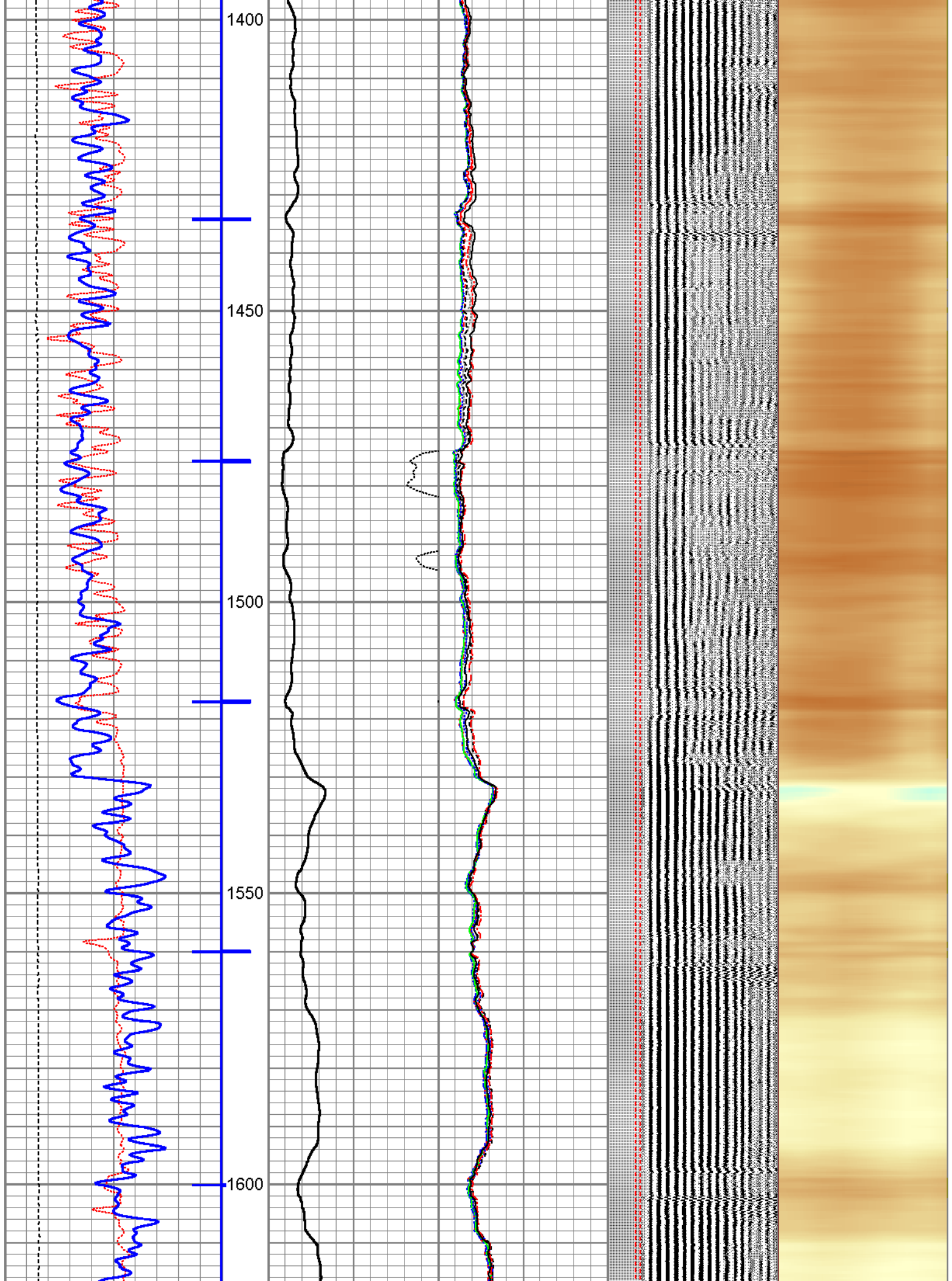


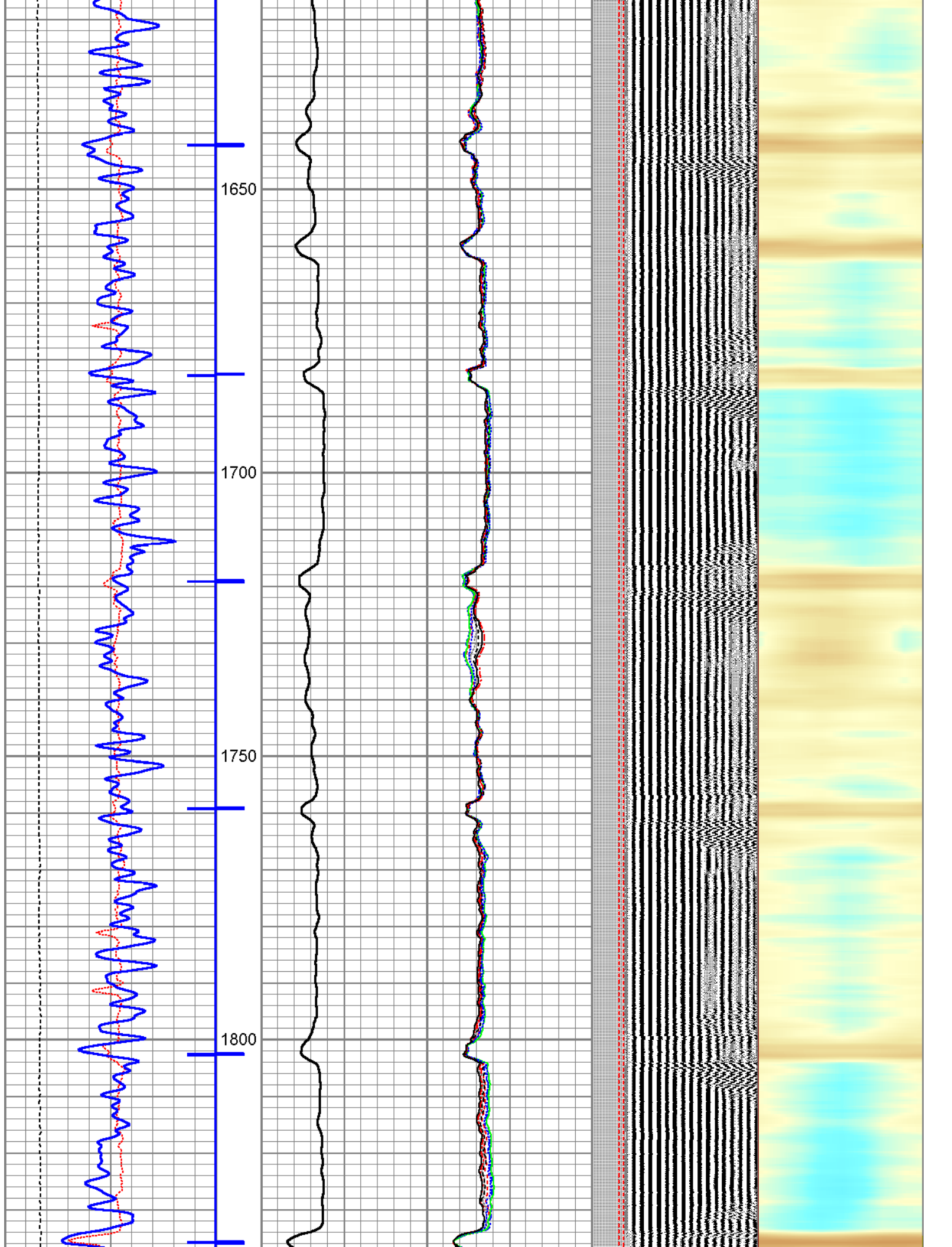


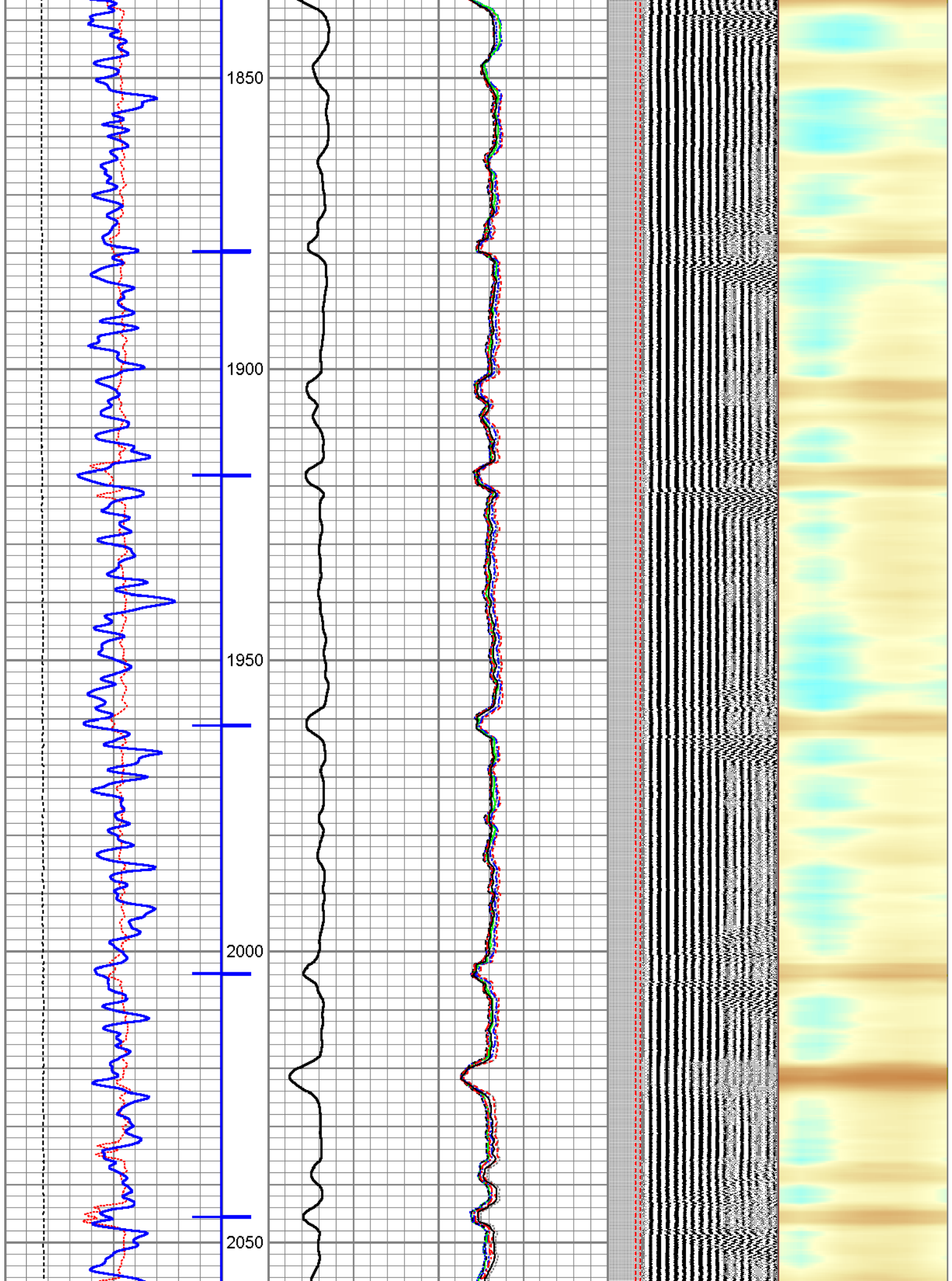


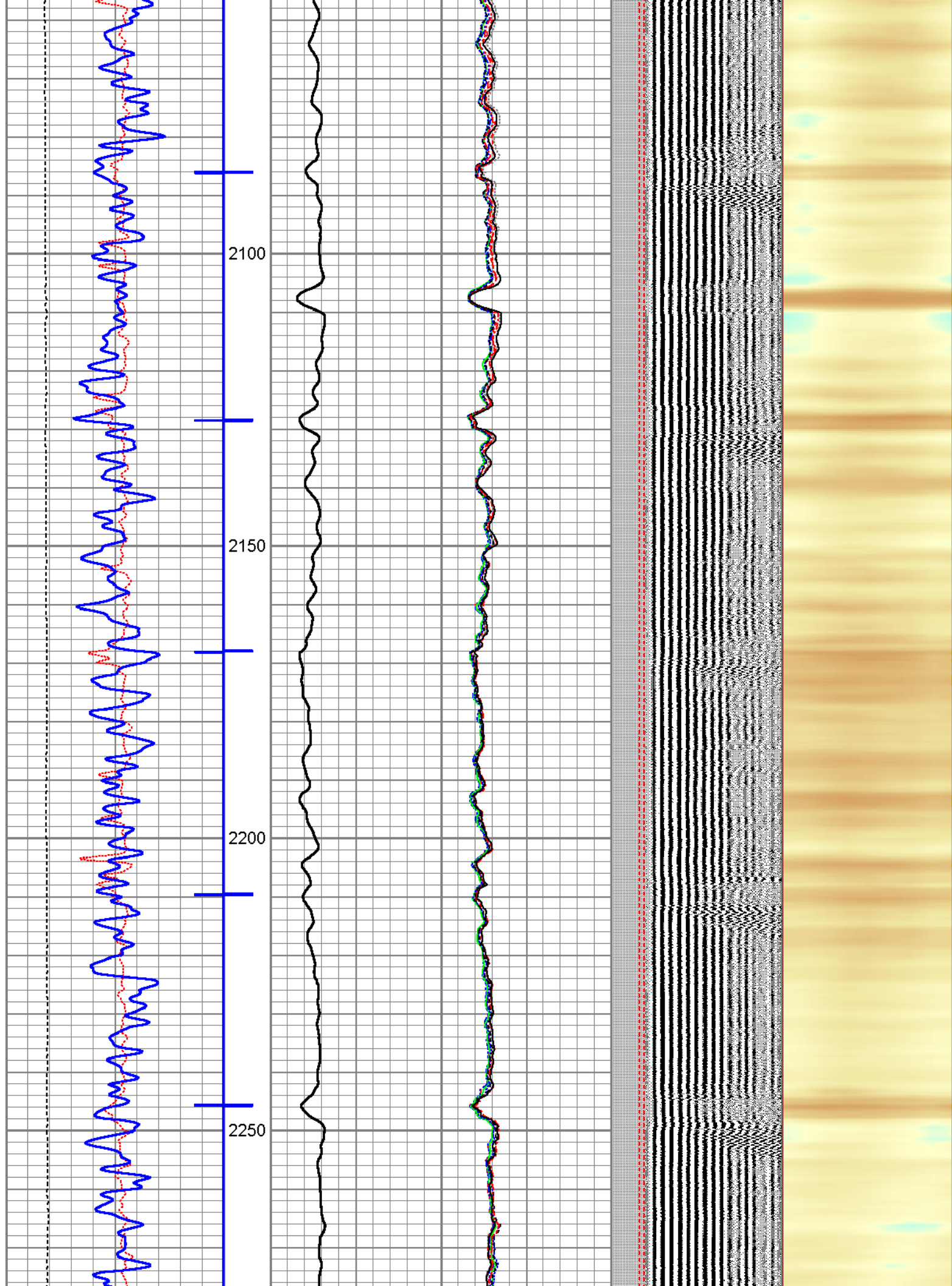


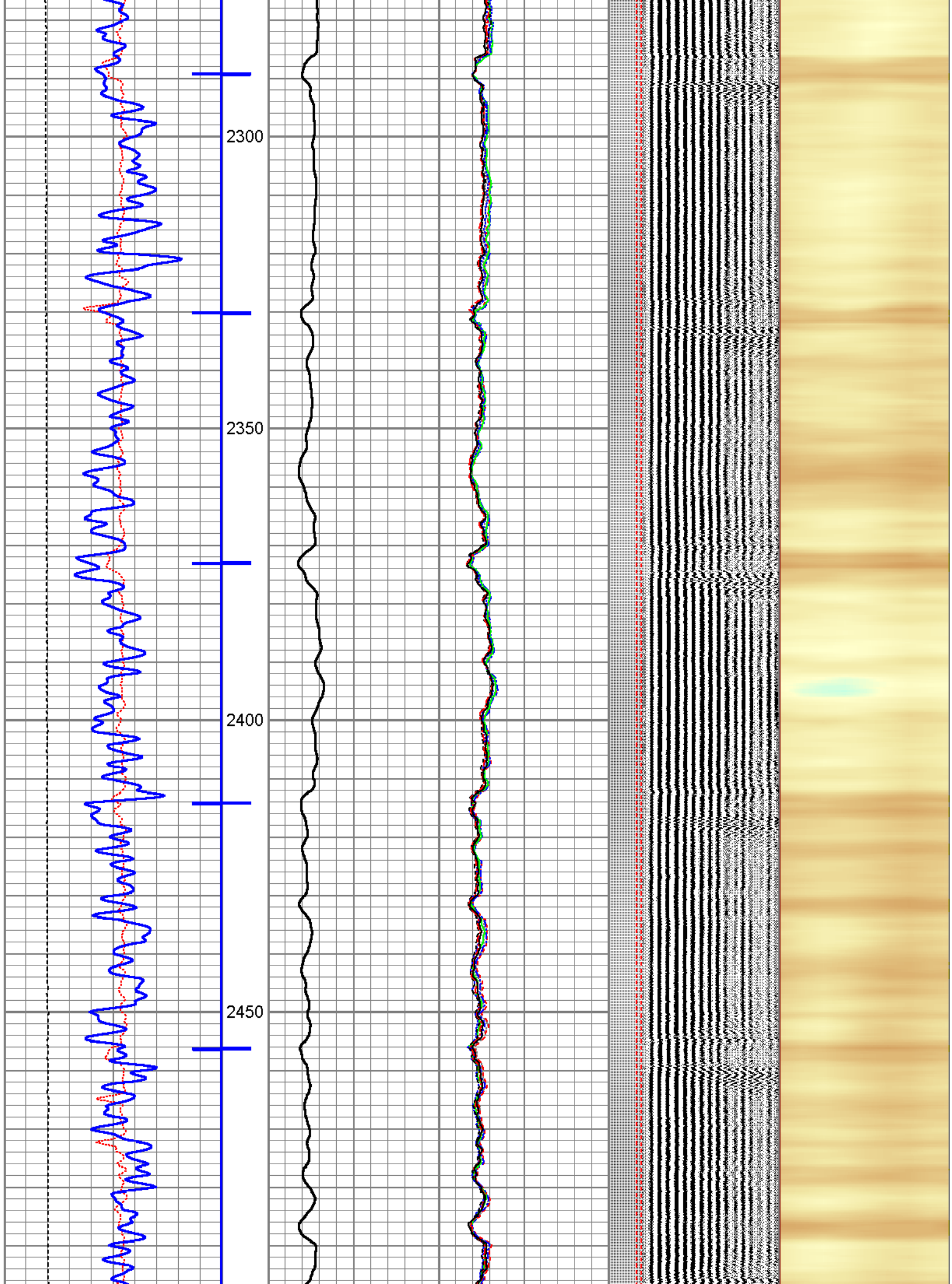


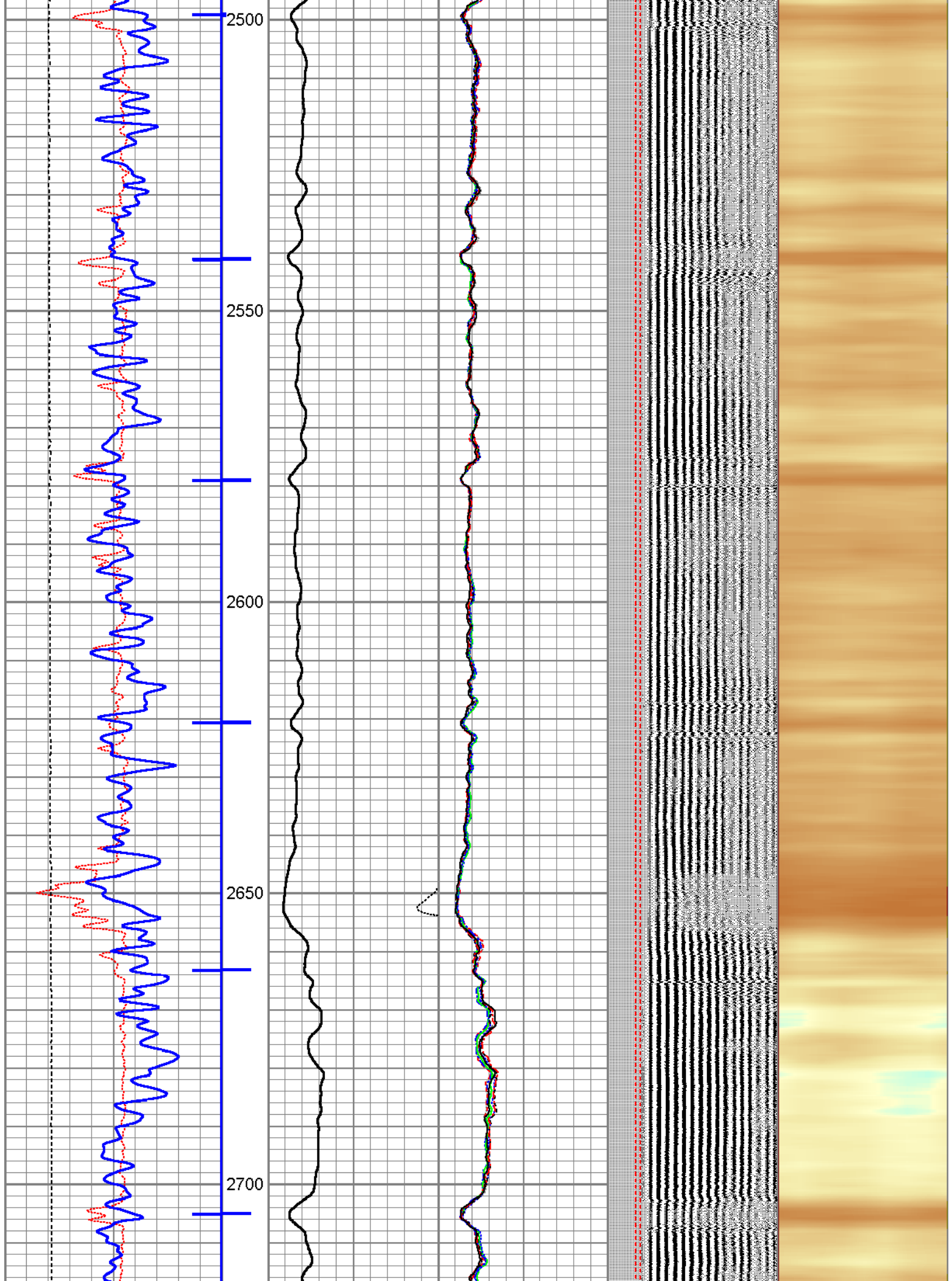


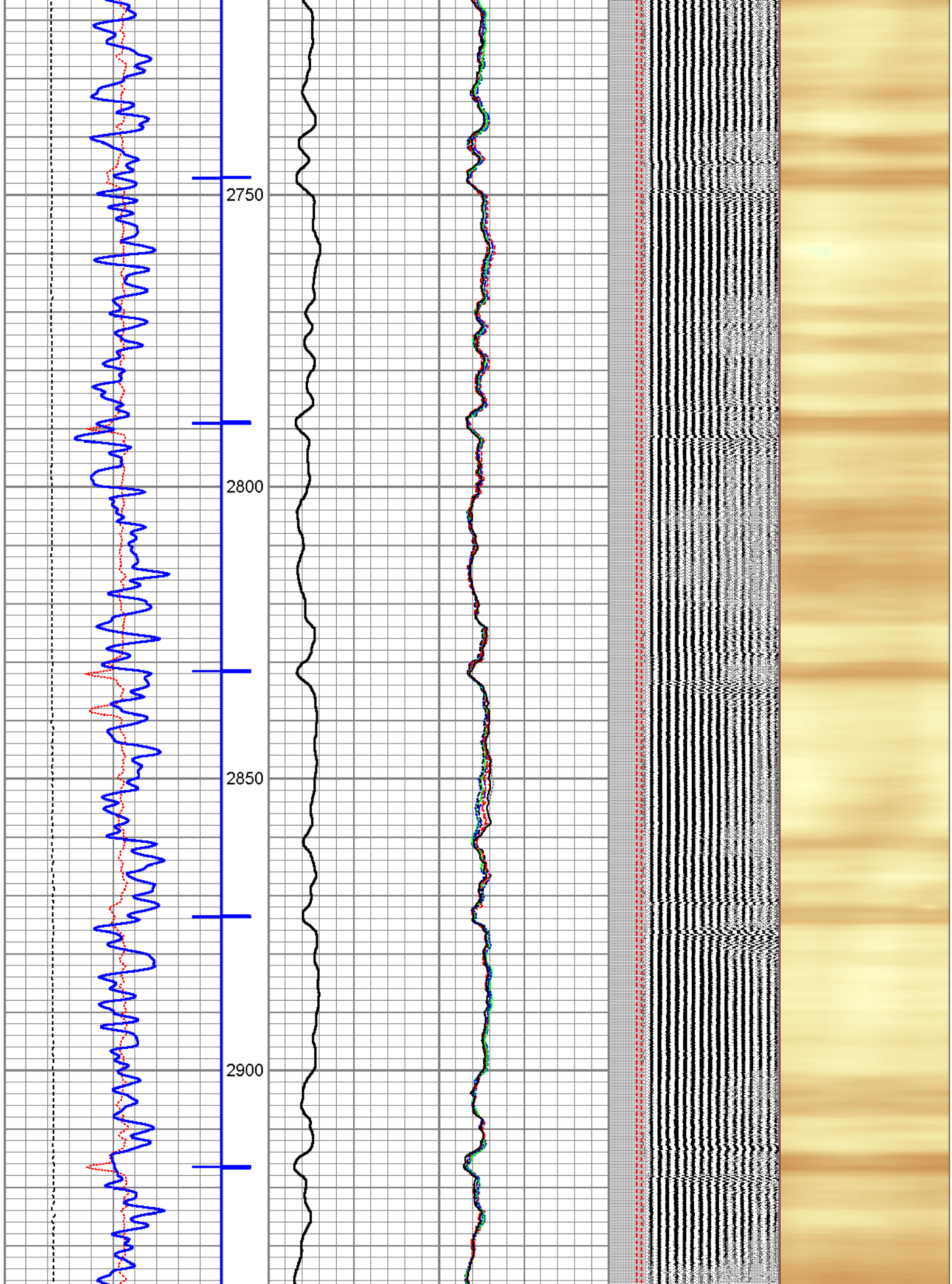


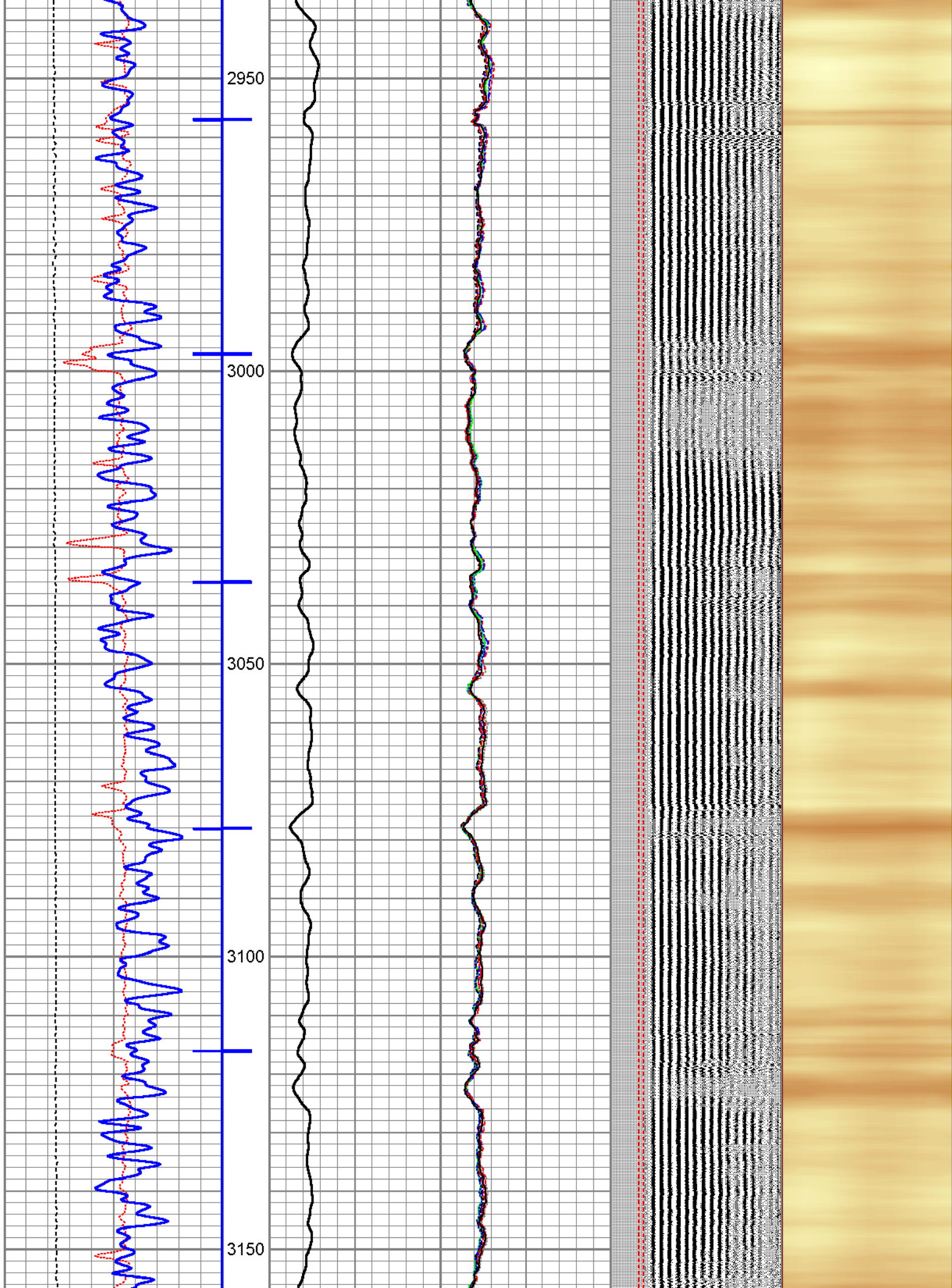


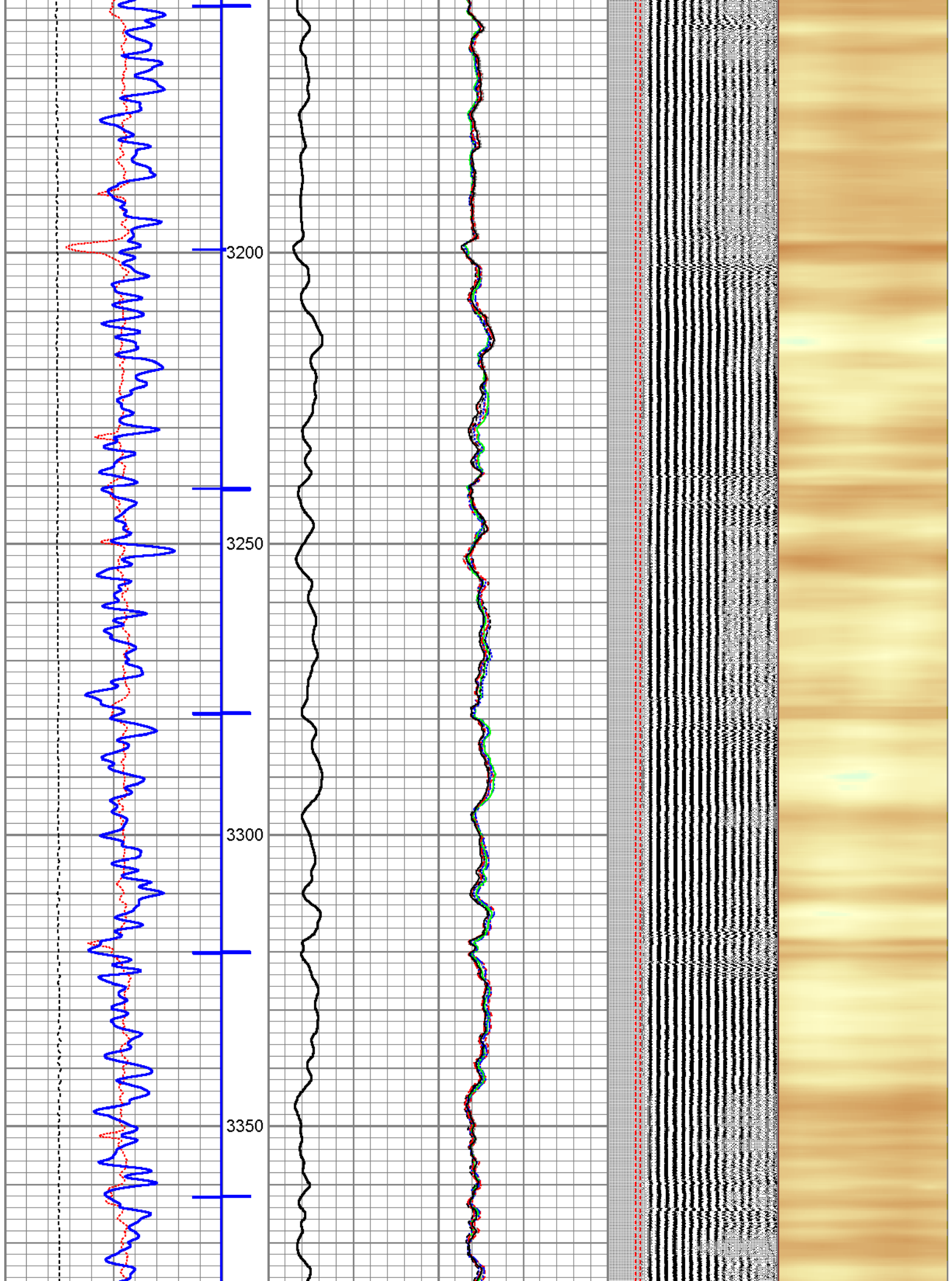


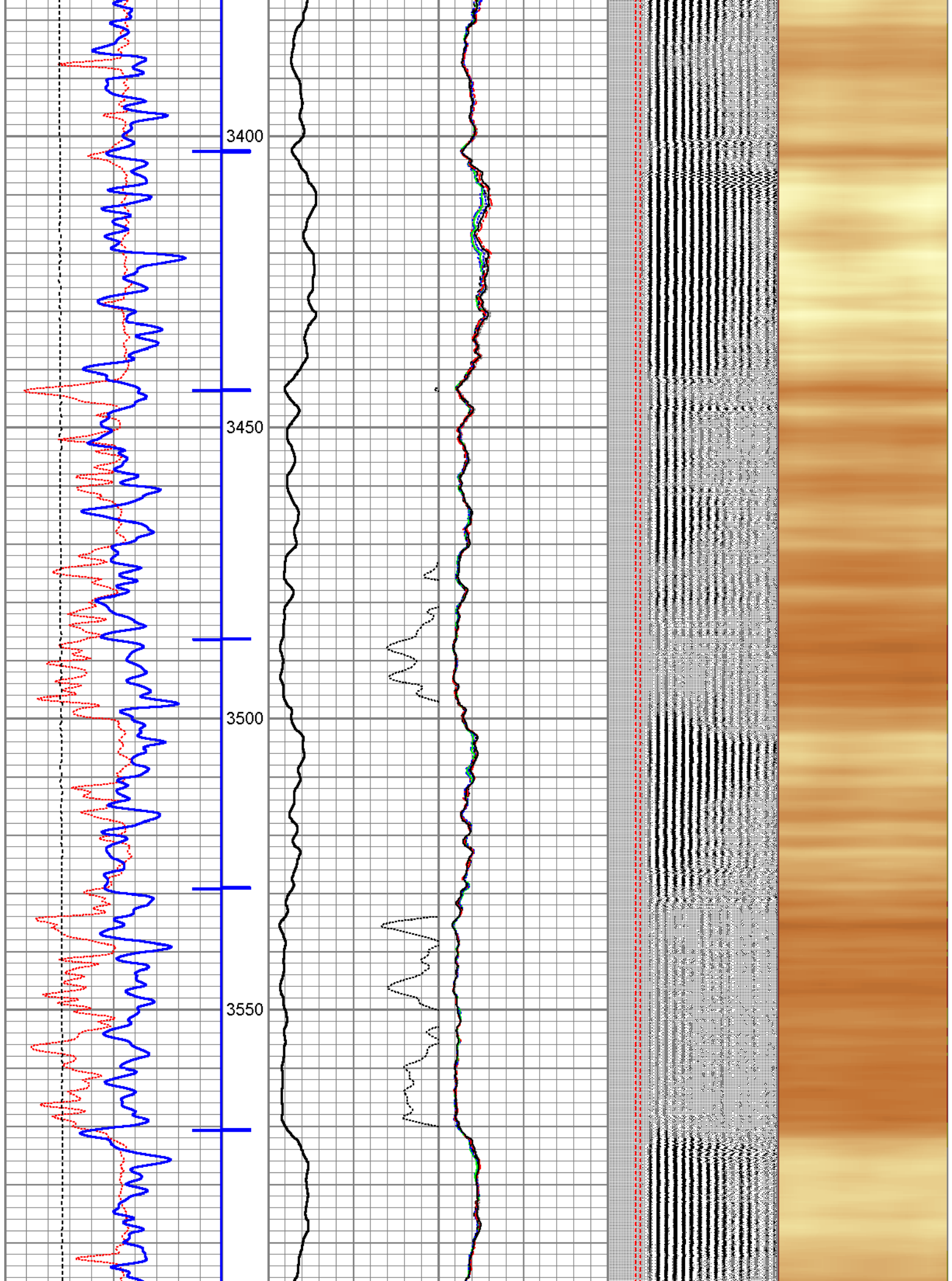


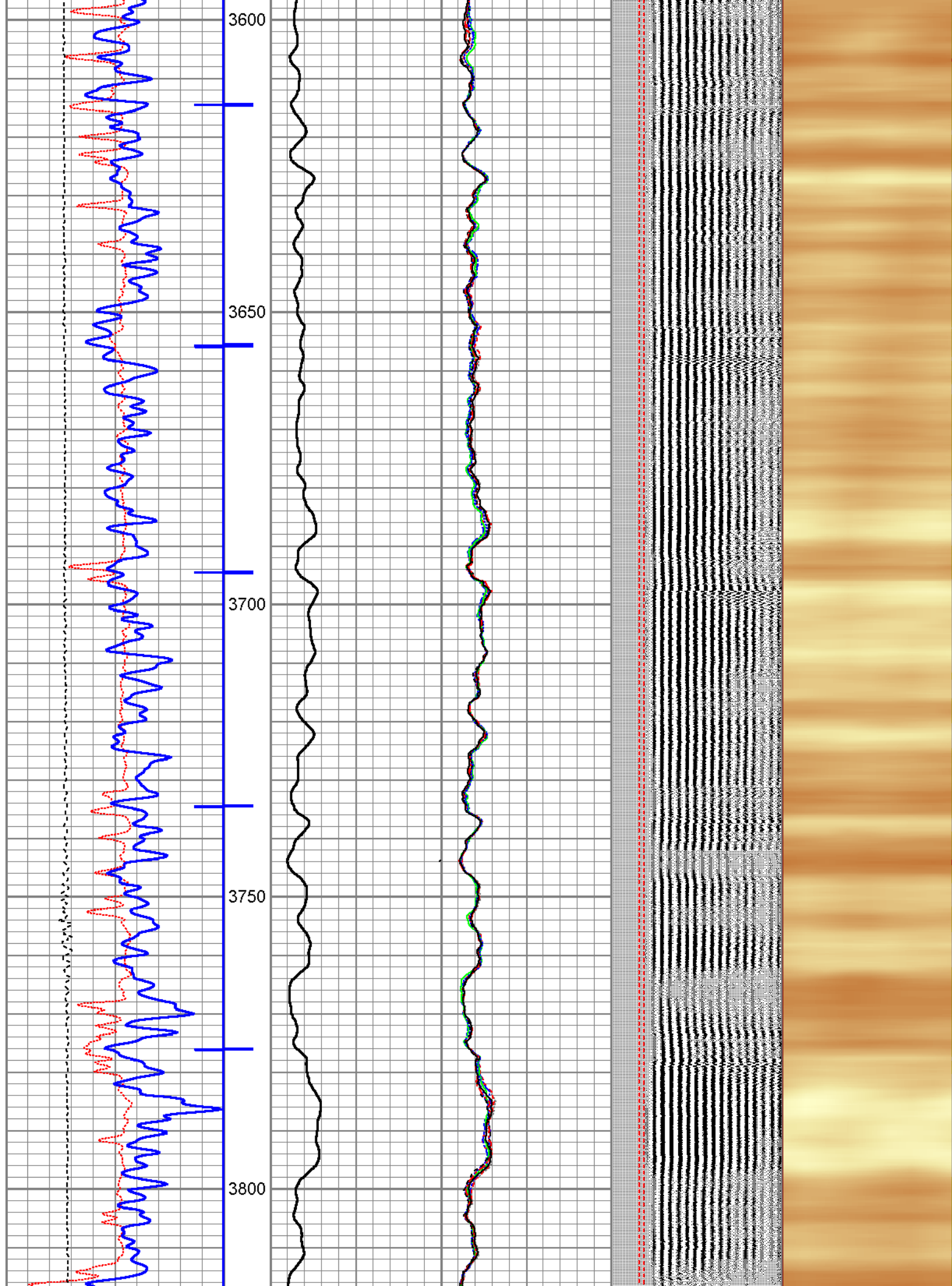


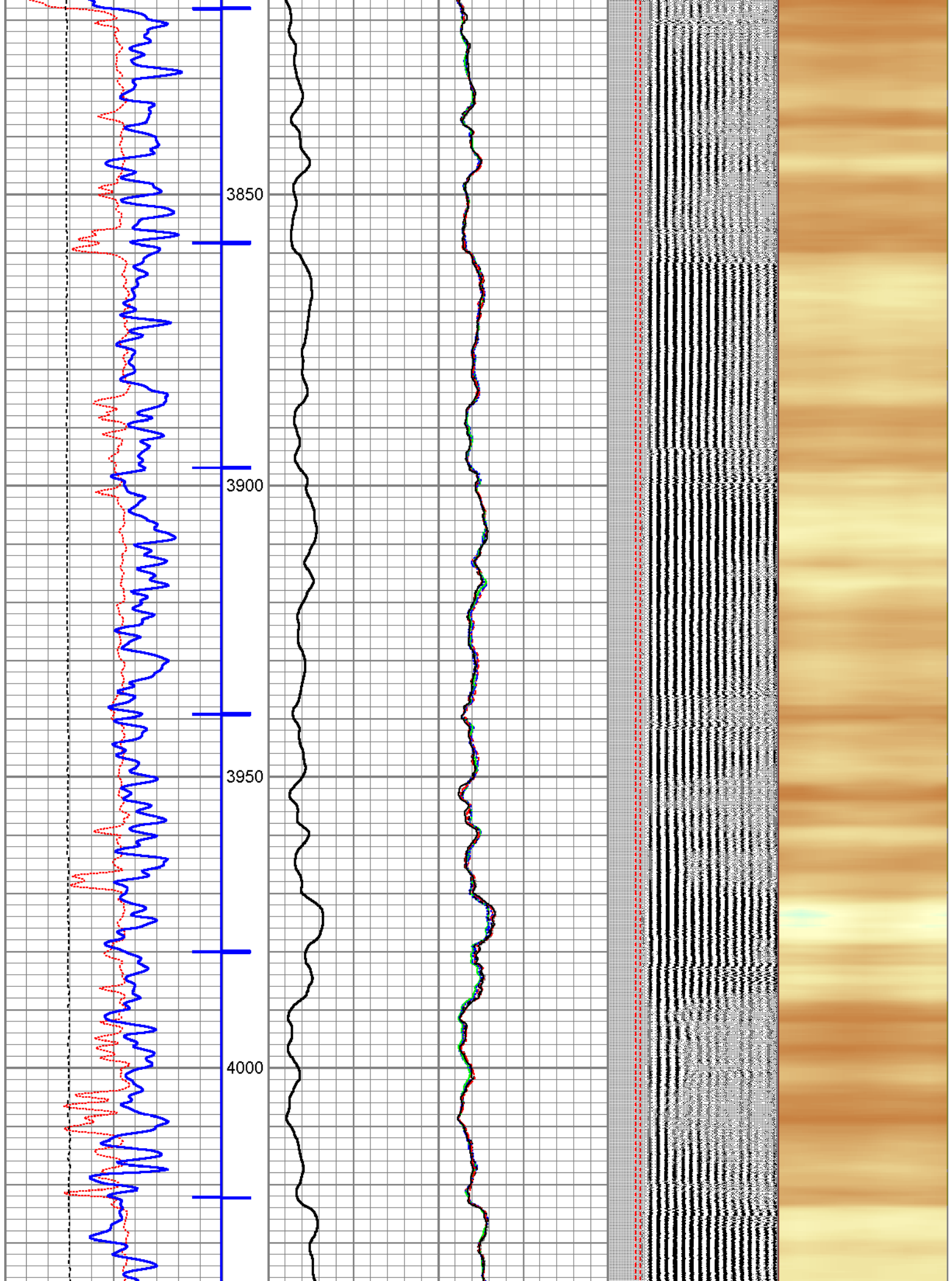


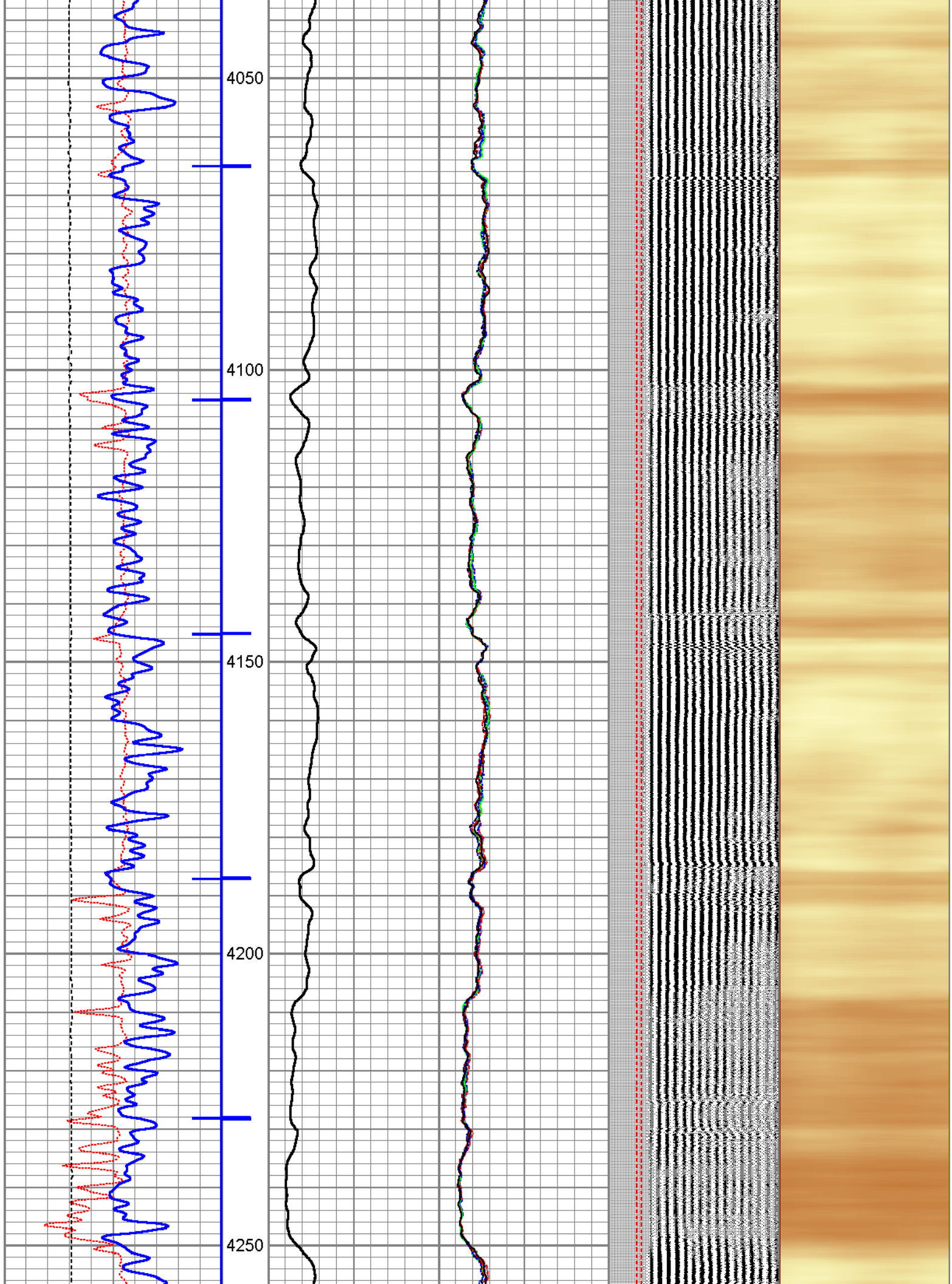


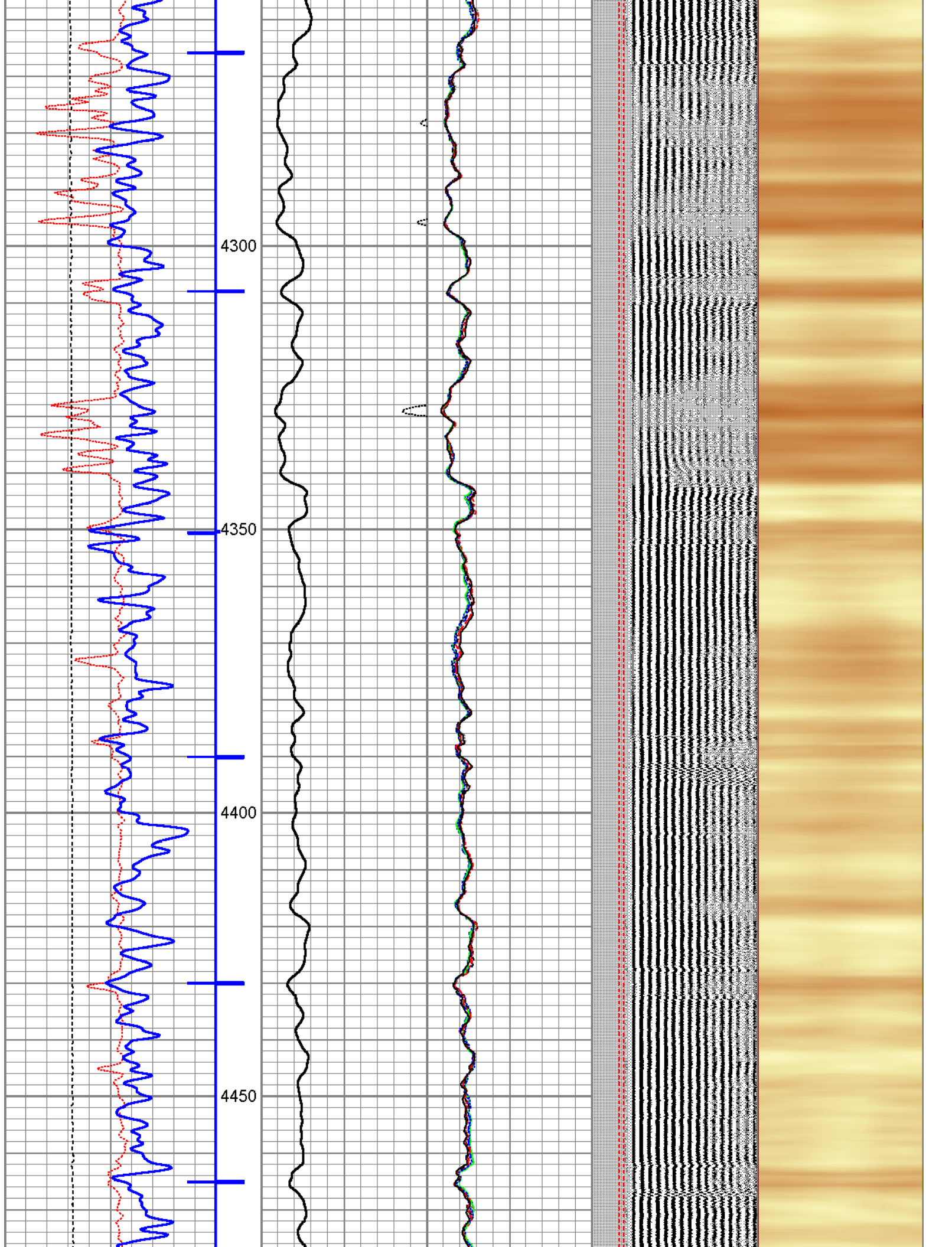


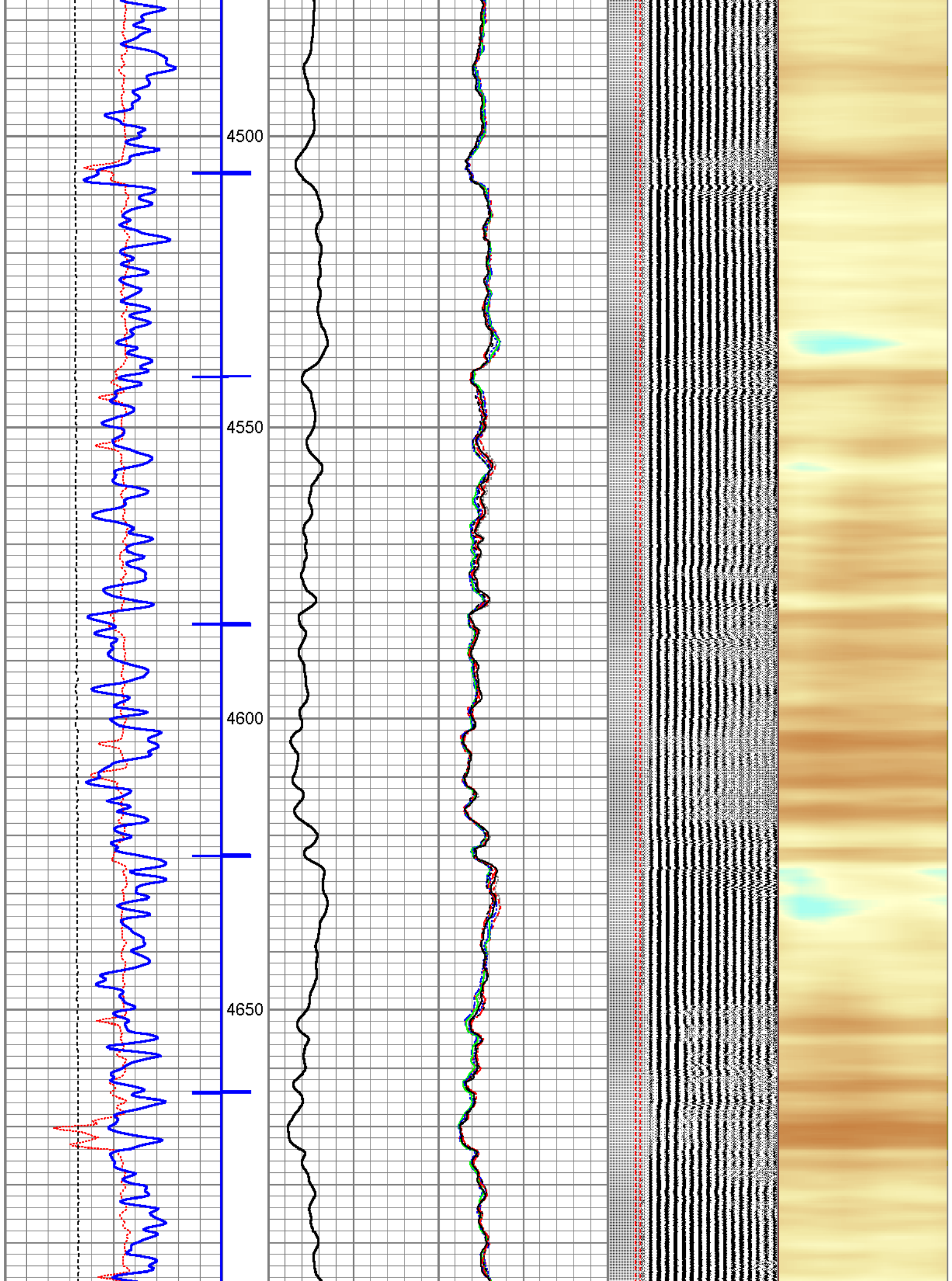


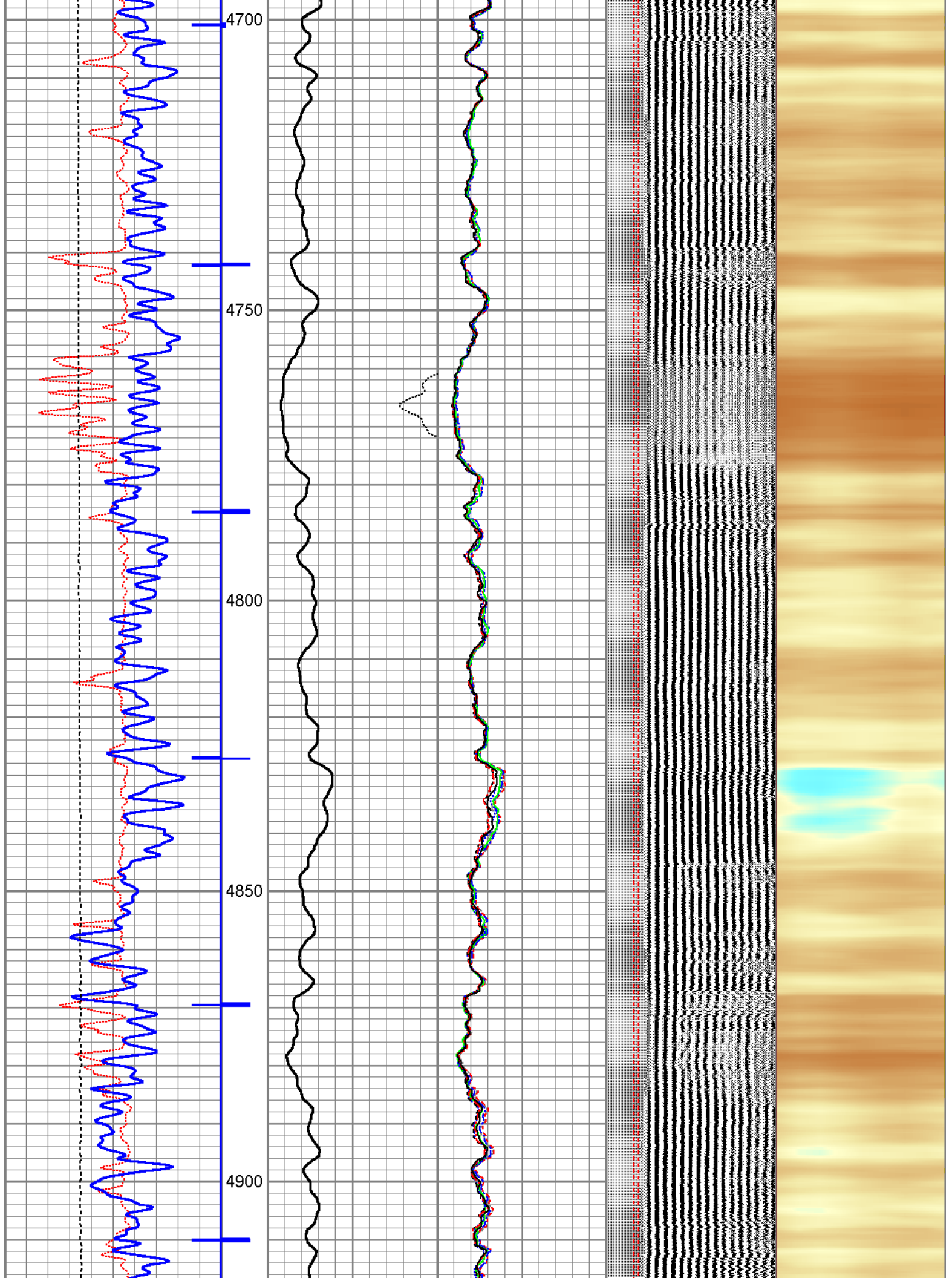


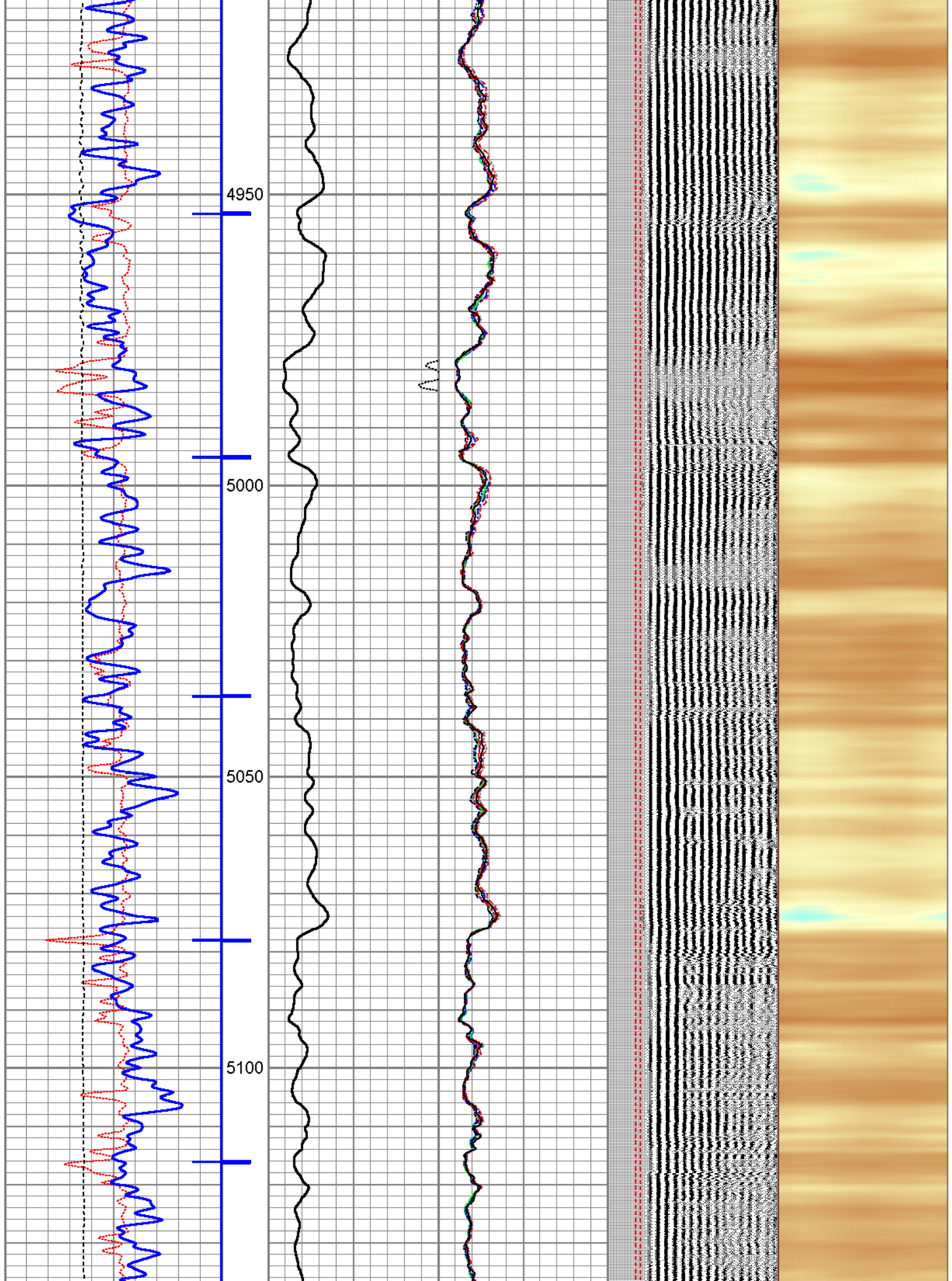


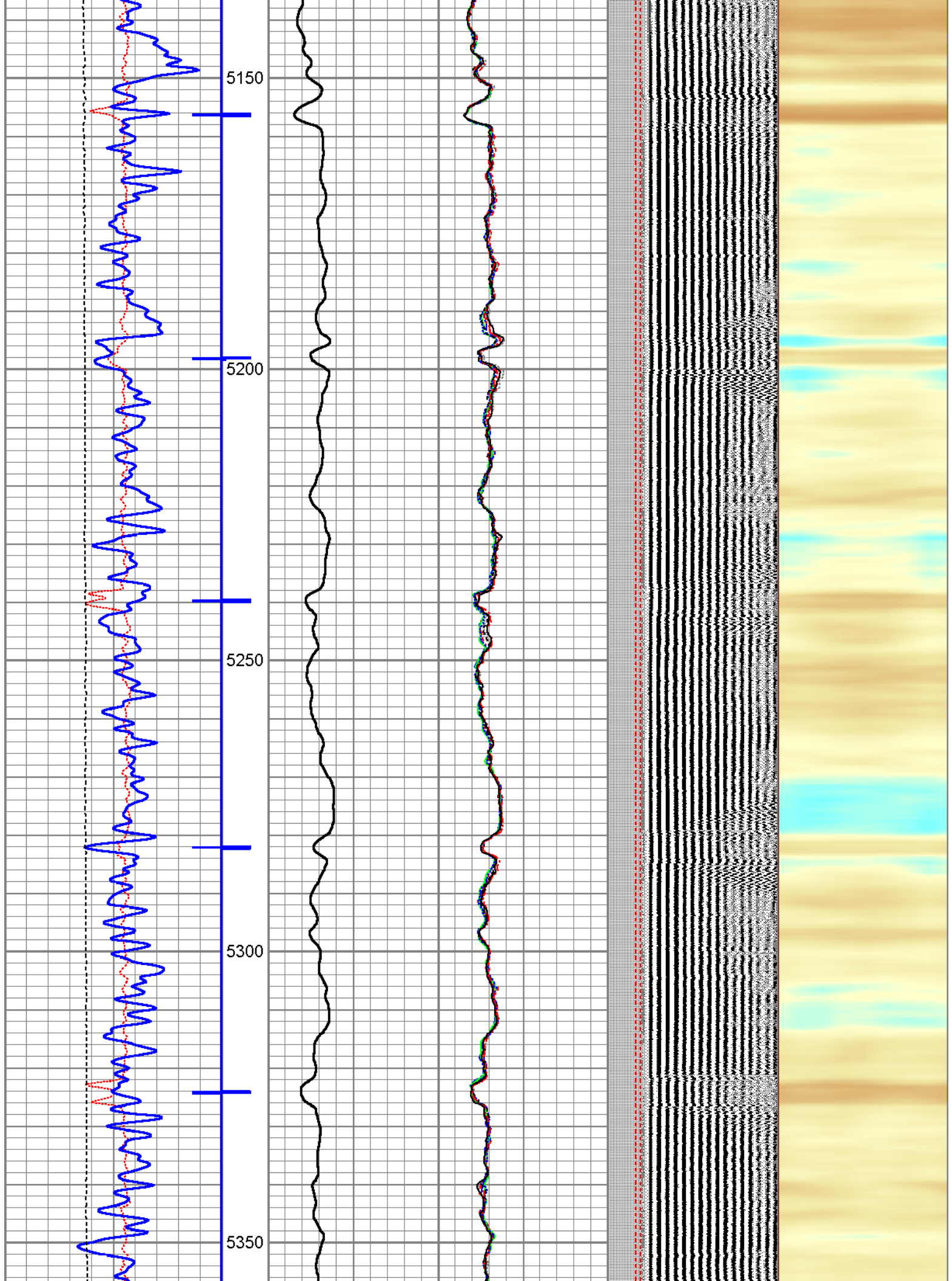


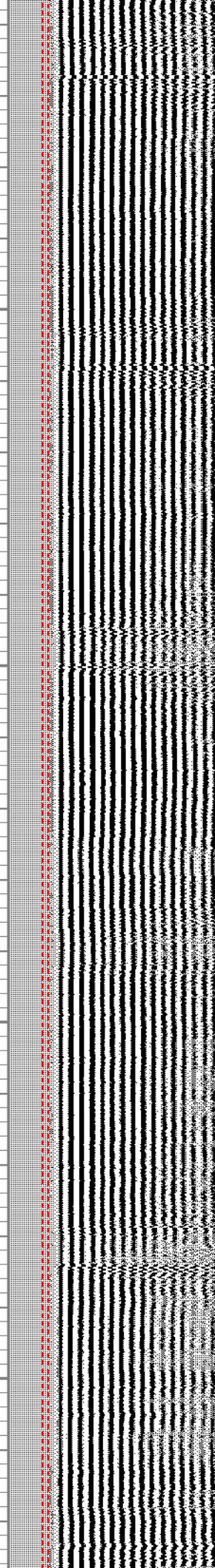
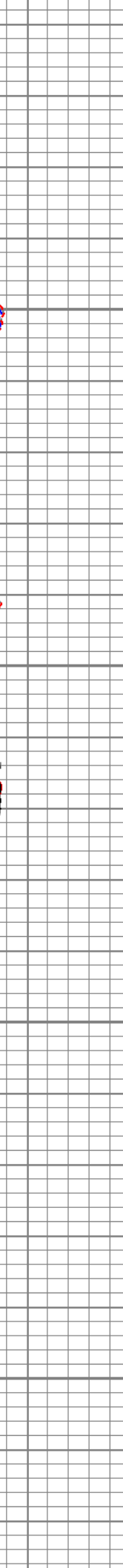
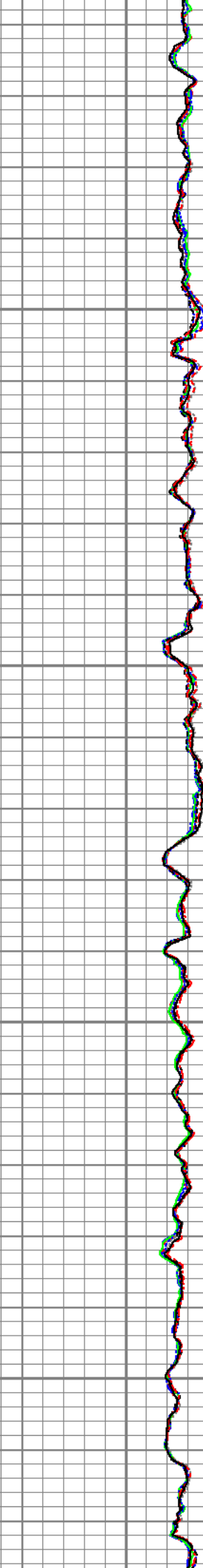
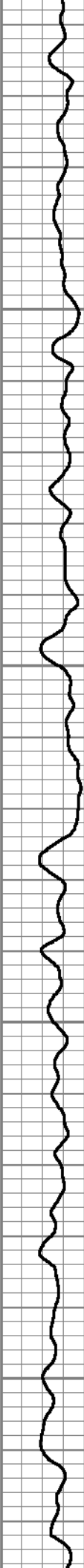
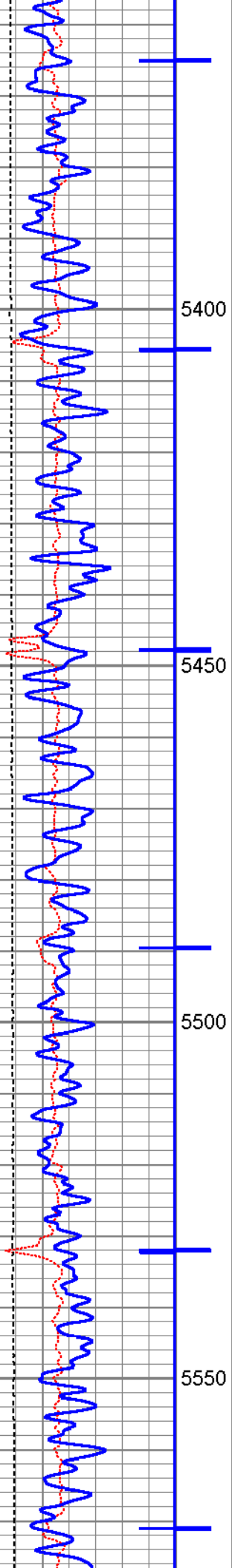


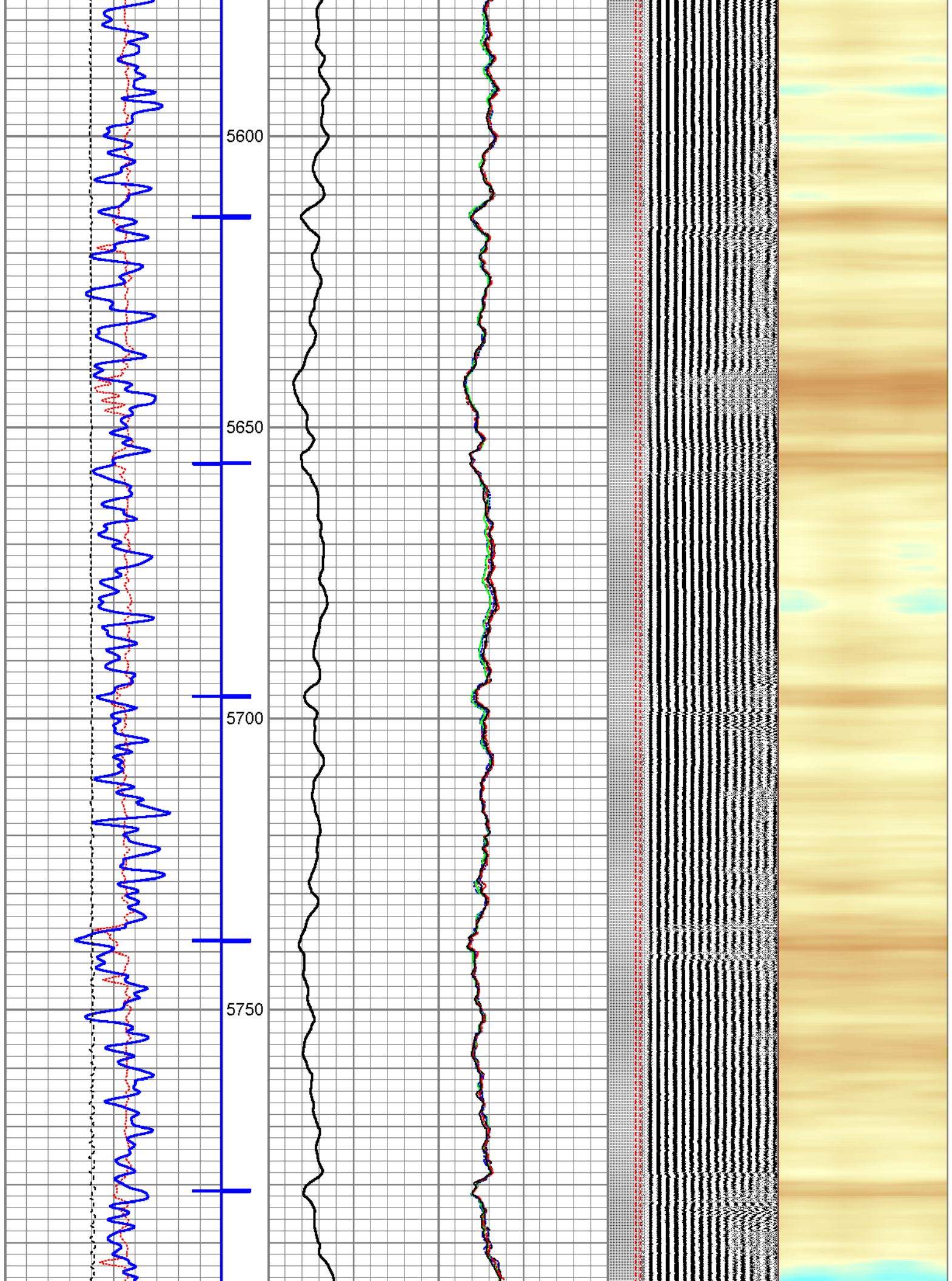


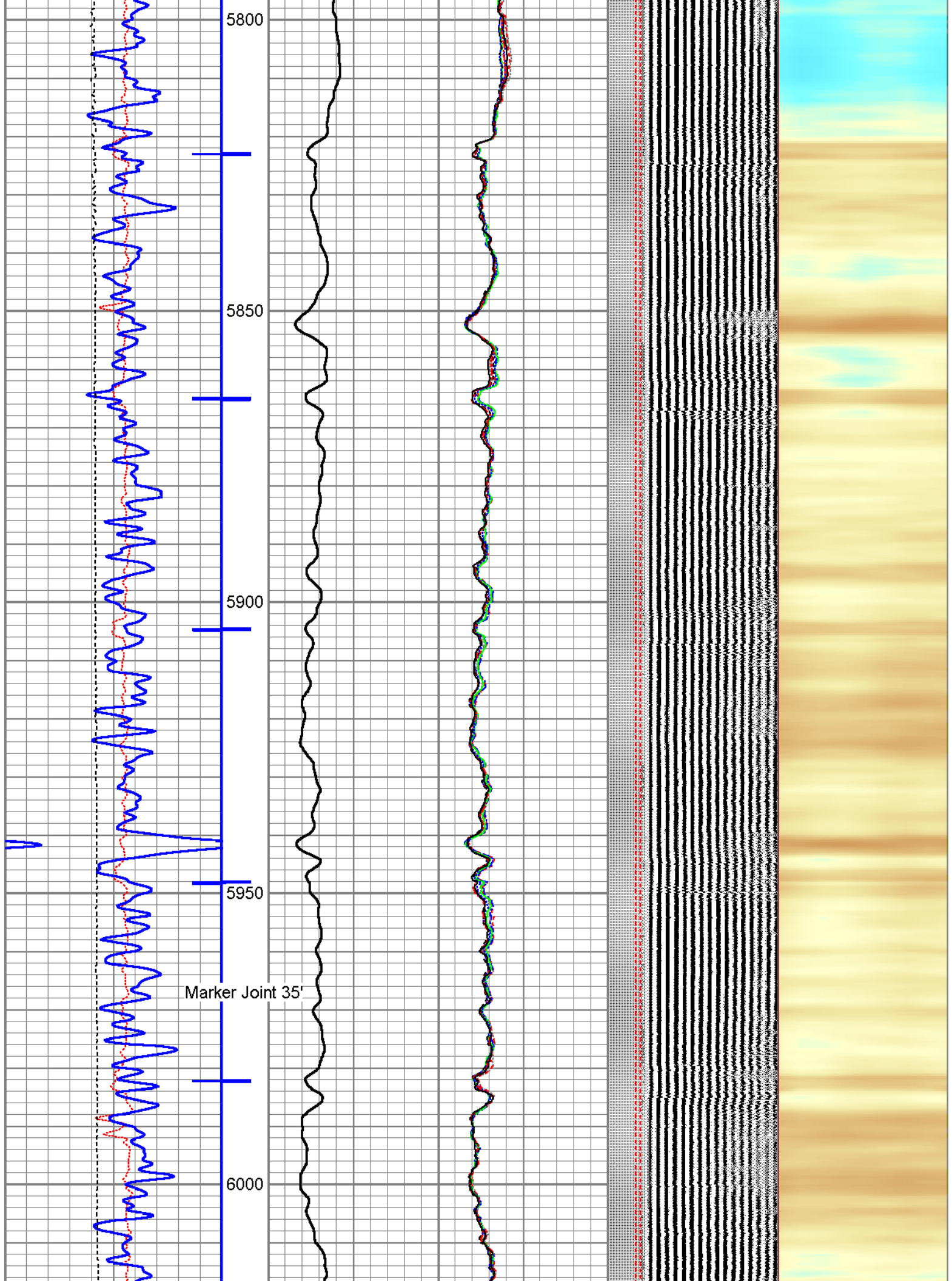


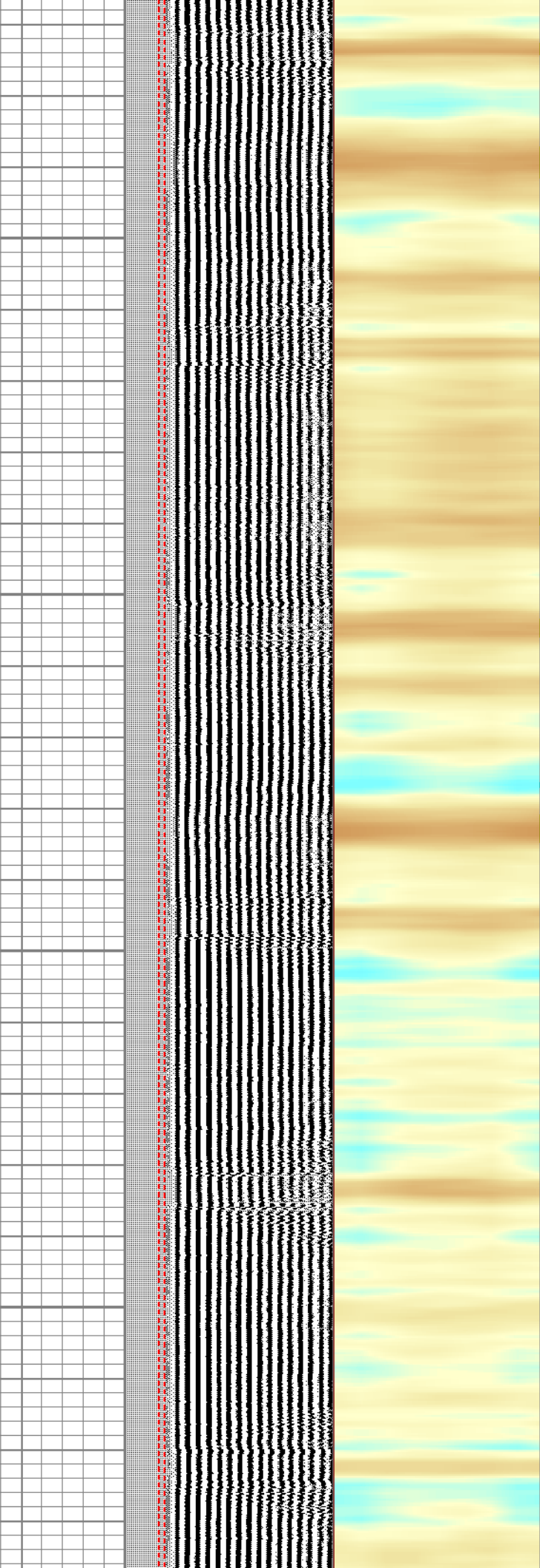
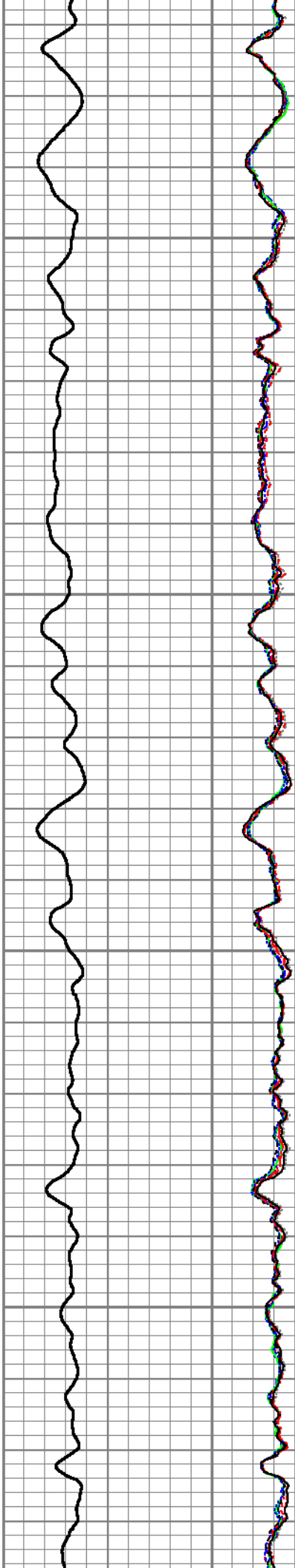
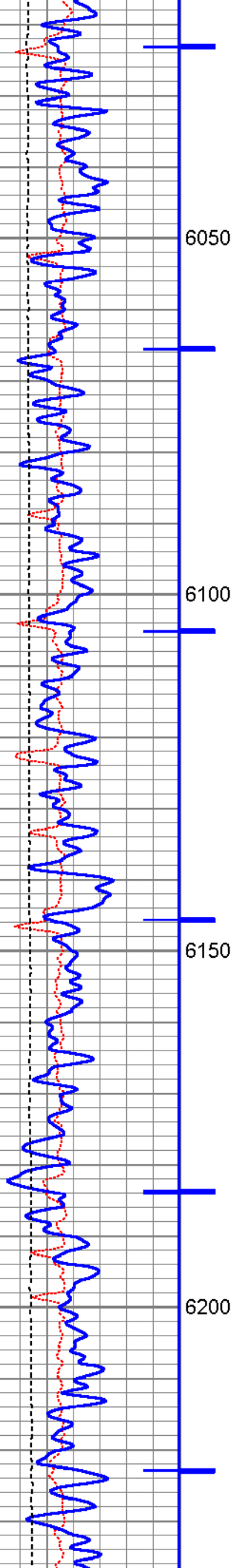


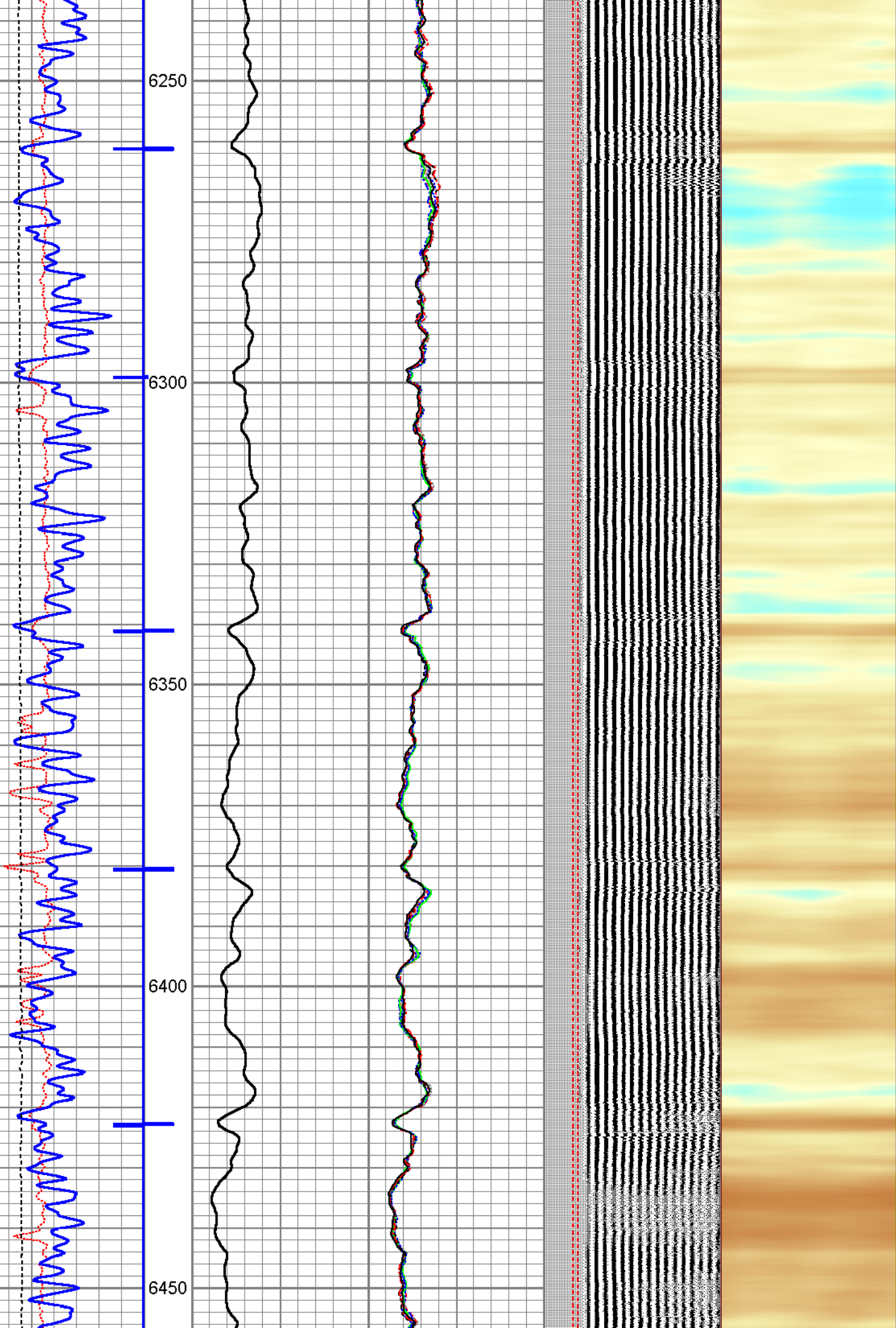


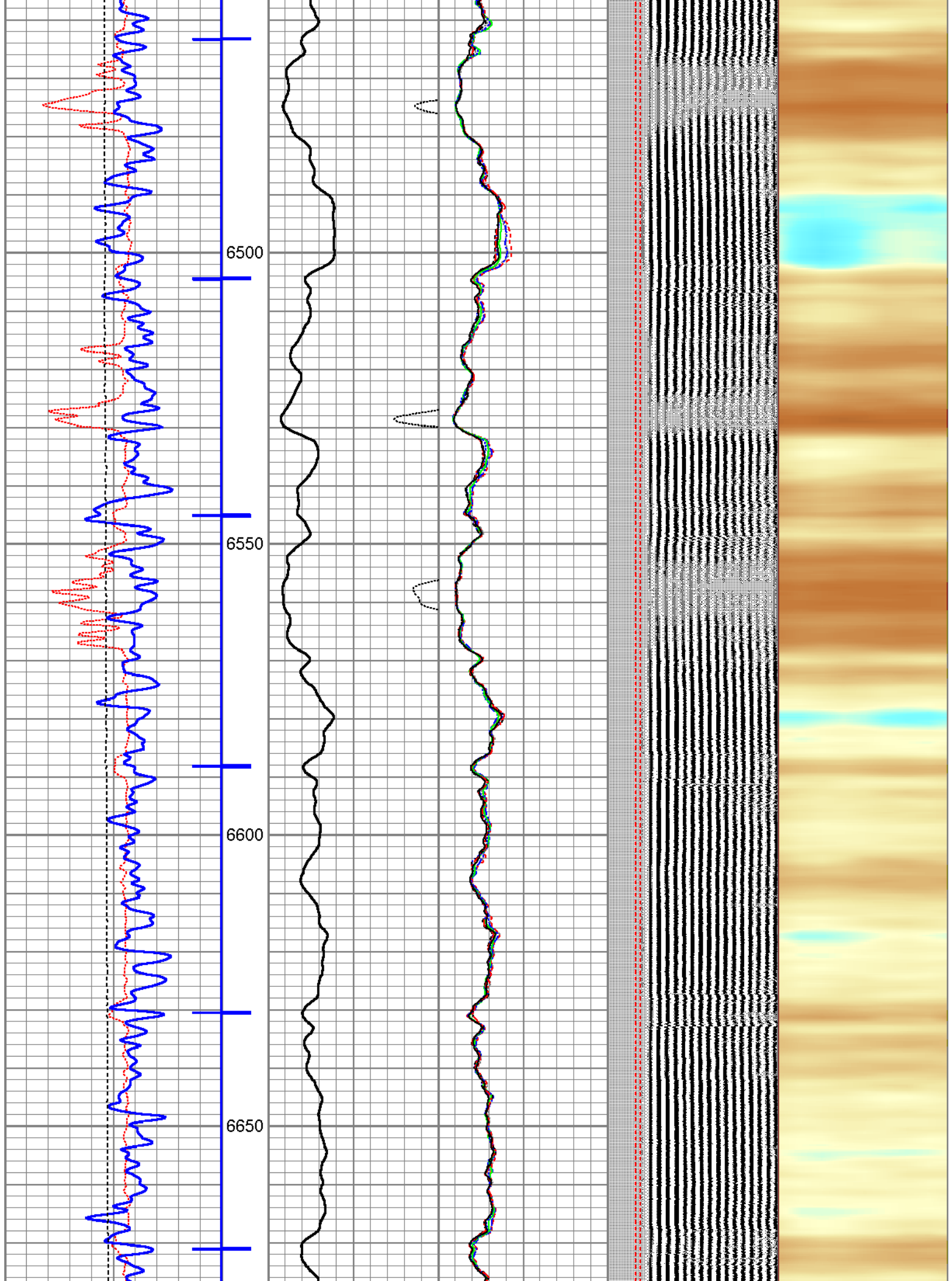


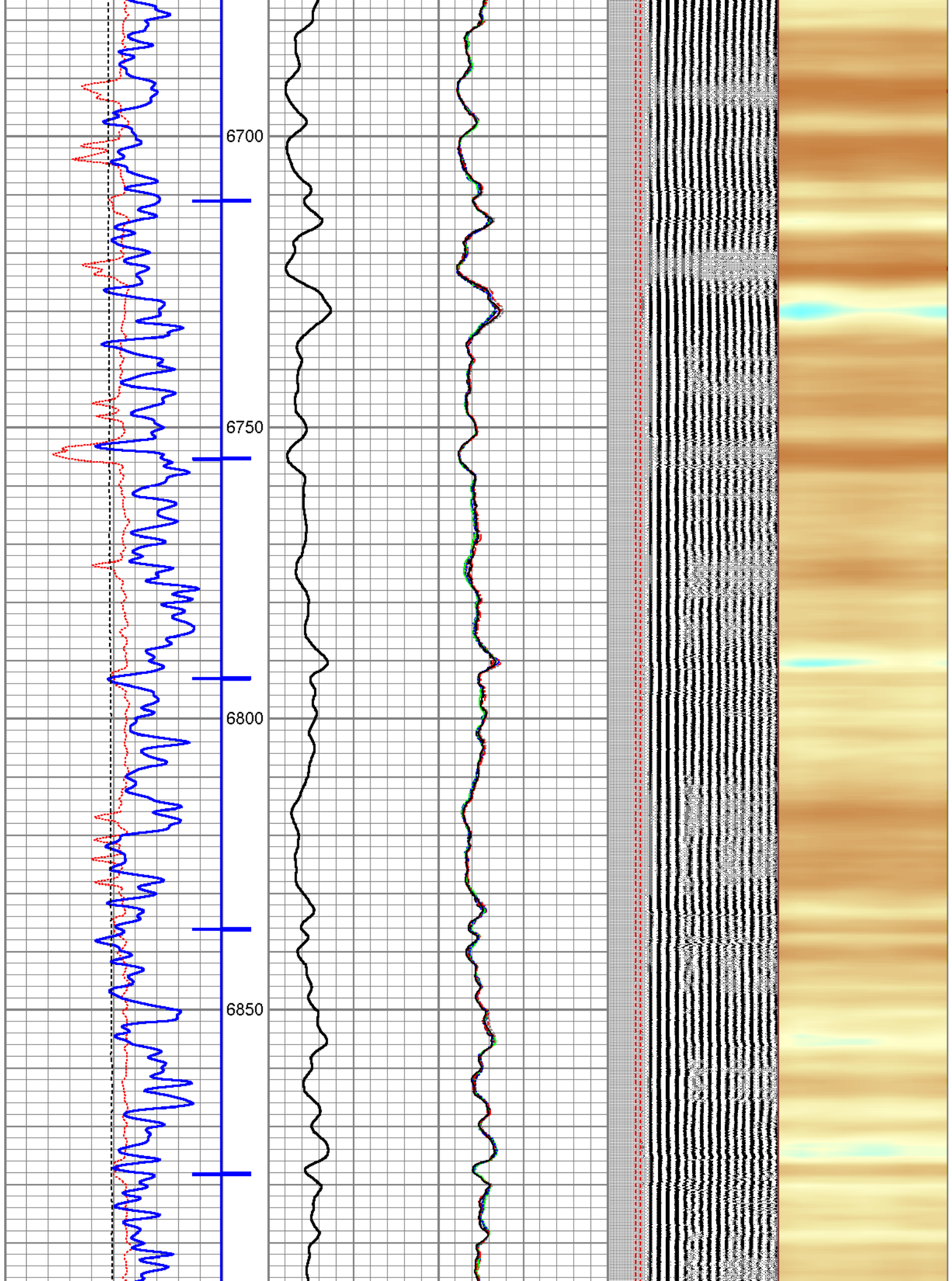


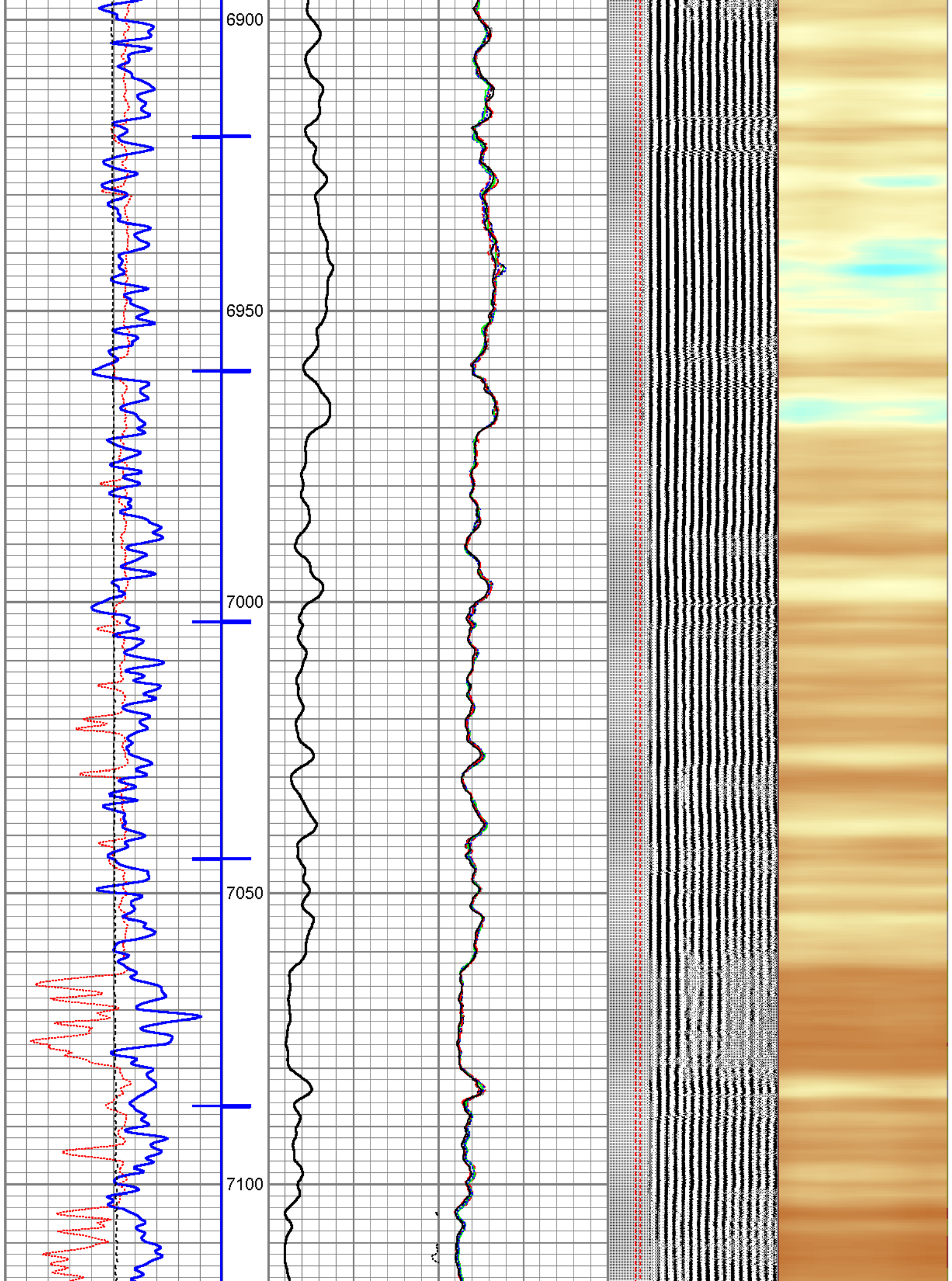


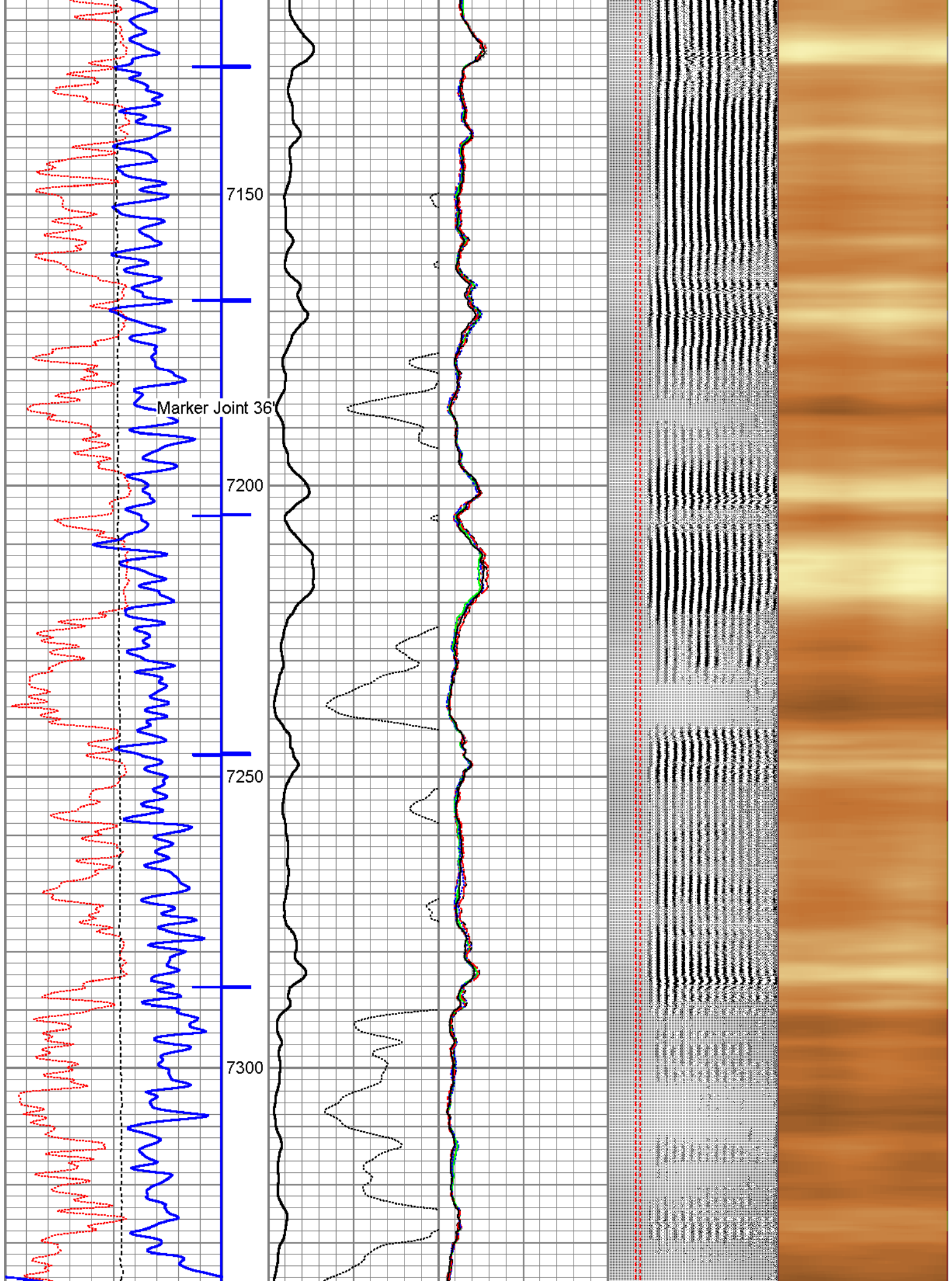


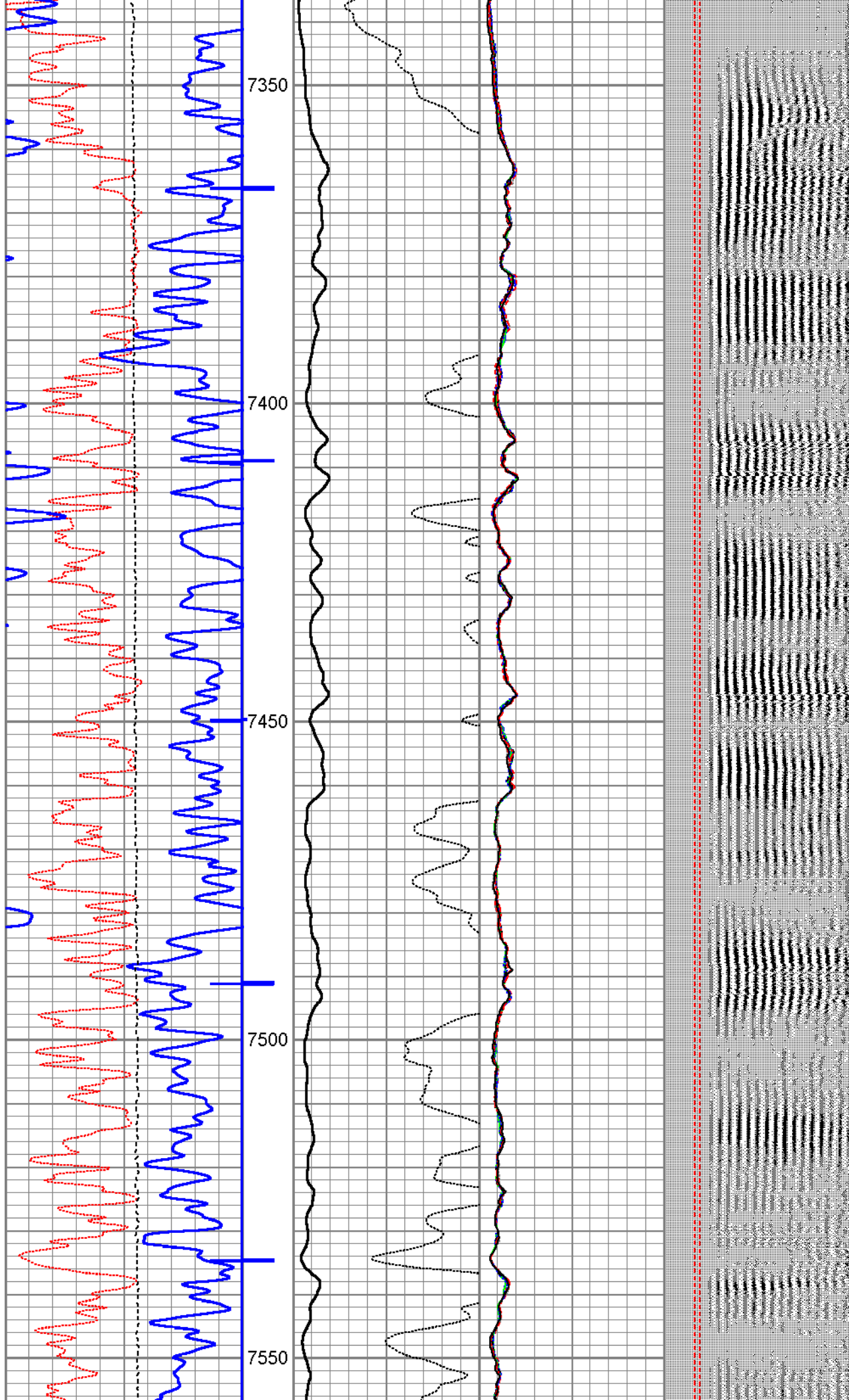


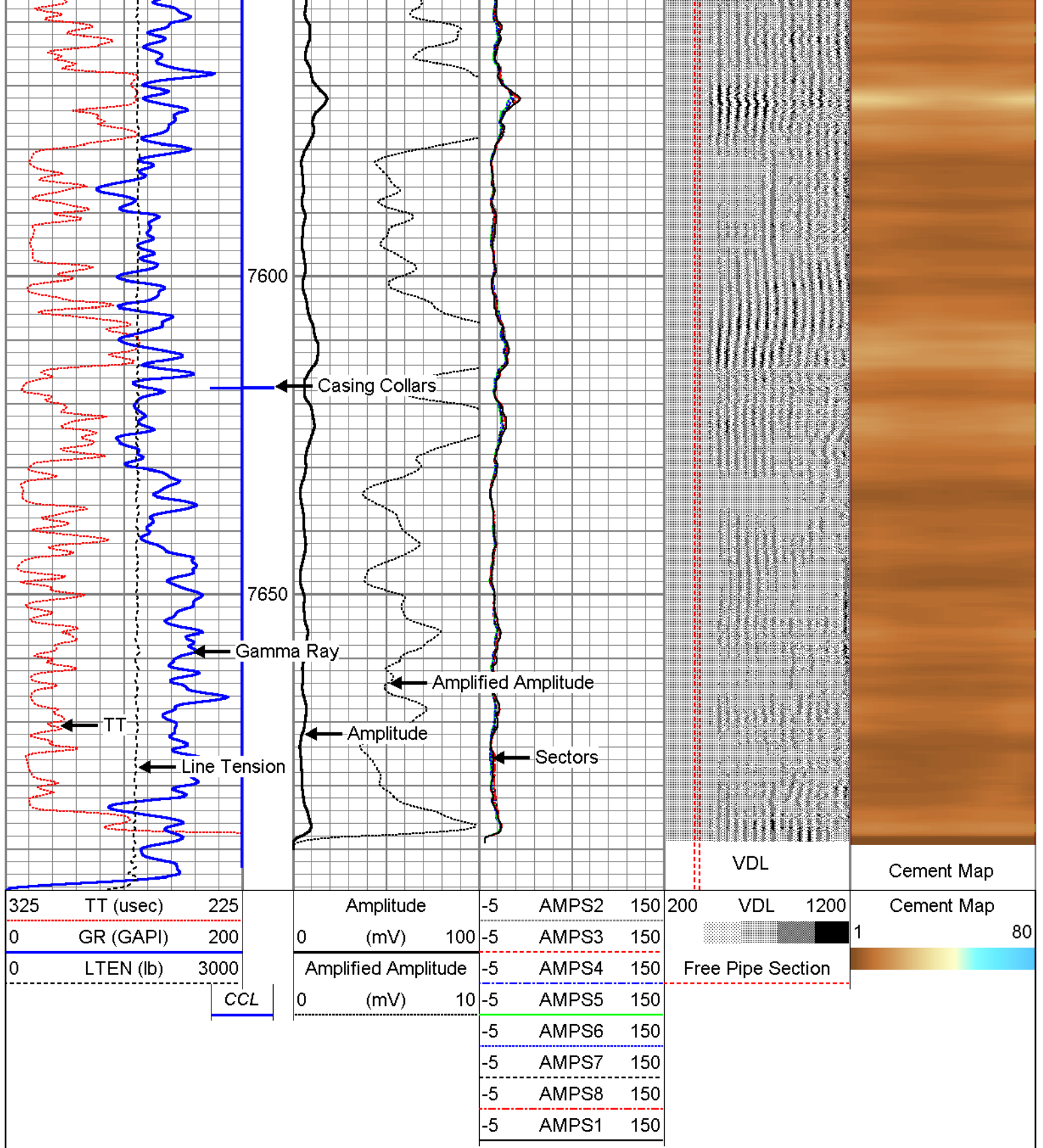




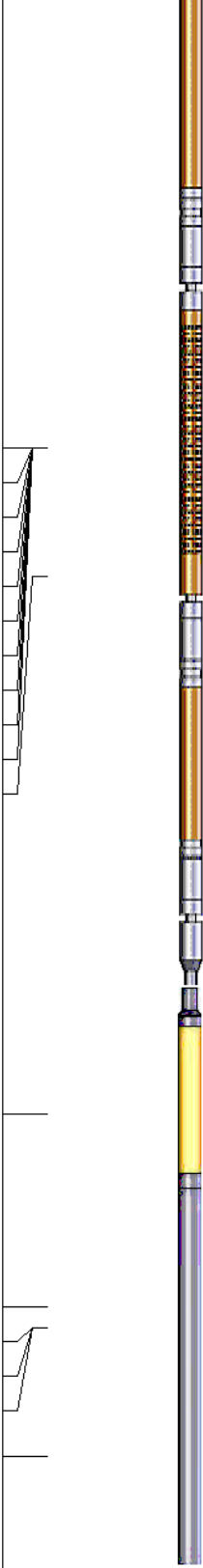








Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
1.4375CHD			Titan Cable Head 1 7/16	1.00	1.44	10.00

WVF3FT	8.69								
WVFCAL	8.69								
WVFS1	8.69								
WVFS2	8.69								
WVFS3	8.69								
WVFS4	8.69								
WVFS5	8.69								
WVFS6	8.69								
WVFS7	8.69								
WVFS8	8.69								
WVF5FT	7.69								
CCL	3.50								
IntTemp	2.00								
ACCX	1.83								
ACCY	1.83								
ACCZ	1.83								
GR	0.83								
Dataset: anderson 18-3-11 hc.db: field/well/run1/pass6.1 Total Length: 14.25 ft Total Weight: 100.00 lb O.D. 2.75 in									

Company	WARD PETROLEUM CORP.								
Well	ANDERSON 18-3-11 HC								
Field	WATTENBERG								
County	ADAMS			State	COLORADO				

RADIAL CEMENT

