



Radial Cement  
Bond Log

Company Highlands Natural Resources  
Well Wildhorse 5-64 15-16-1BHZ  
Field Wildcat  
County Arapahoe State Colorado

Location: API #: 05-005-07267

NESE Other Services  
None

SEC 15 TWP 05S RGE 64W

Permanent Datum Ground Level Elevation 5937'  
Log Measured From Kelly Bushing = 27'  
Drilling Measured From Kelly Bushing  
Elevation  
K.B. 5964'  
D.F. 5963'  
G.L. 5937'

Date 26-Sept-2017

Run Number	One	
Depth Driller	18483'	
Depth Logger	8510'	
Bottom Logged Interval	8510'	
Top Log Interval	Surface	
Open Hole Size	8-1/2"	
Type Fluid	Fresh Water	
Density / Viscosity	8.3#	
Max. Recorded Temp.	267 Deg F	
Estimated Cement Top	980'	
Time Well Ready	ROA	
Time Logger on Bottom	N/A	
Equipment Number	204	
location	Windsor, CO	
Recorded By	SHUMWAY	
Witnessed By	TOM HERBISON	

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	2173'
Prot. String				
Production String	5.5"	20#	Surface	18483'
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

Correlated to Kelly Bushing = 27'

Thank you for using Cutters Wireline Service

Crew Today  
Kade Shumway  
Casey Rippe  
Matt Beckman  
Joe Maynerich

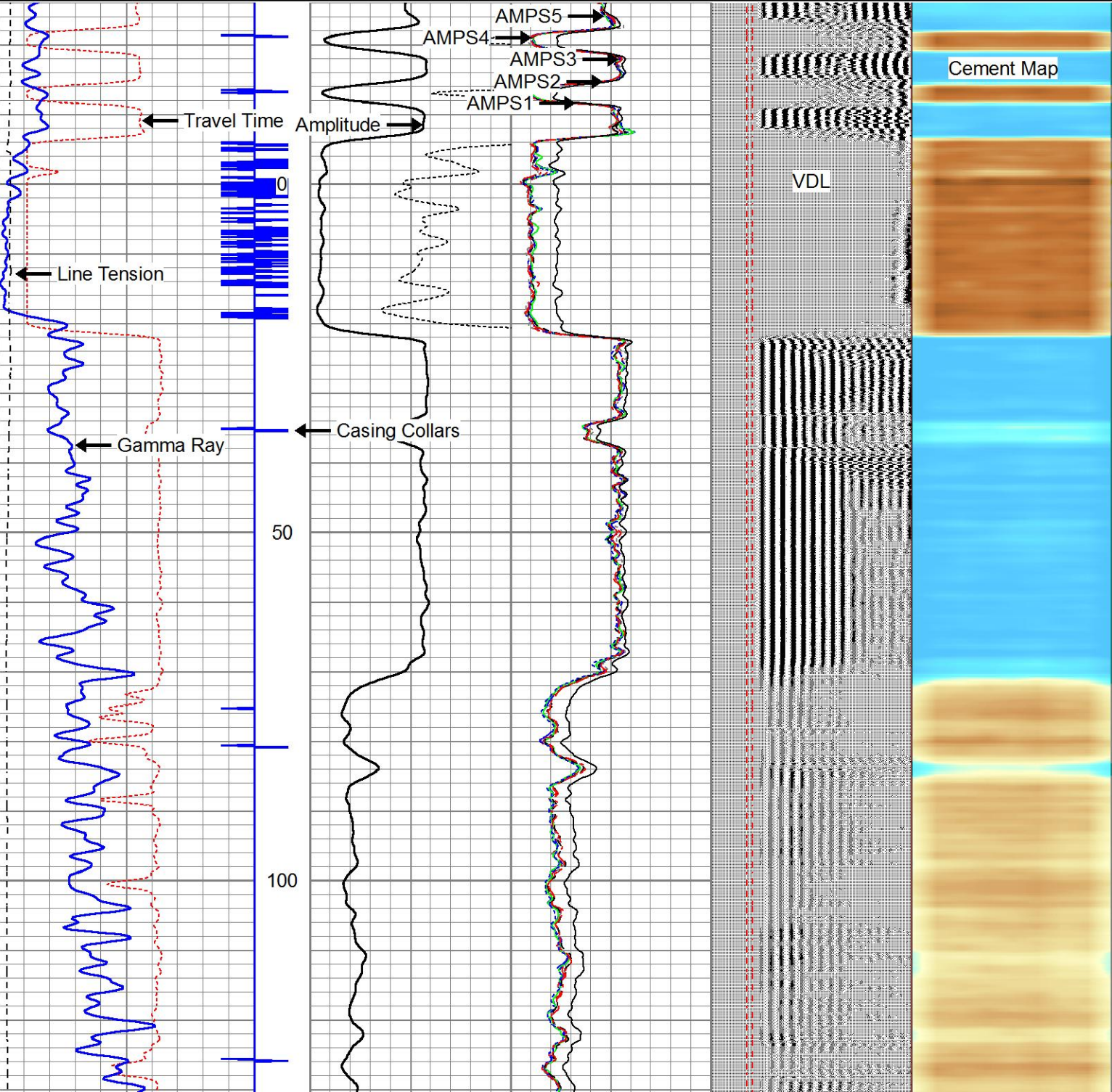
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.4375CHD Titan Cable Head 1 7/16	1.00	1.44	10.00

WVFS8	9.97		RBT-Probe (Pro101106) Probe 2.75" Radii Bond Tool	8.75	2.75	90.00
WVFS7	9.97					
WVFS6	9.97					
WVFS5	9.97					
WVFS4	9.97					
WVFS3	9.97					
WVFS2	9.97					
WVFS1	9.97					
WVFCAL	9.97					
WVF3FT	9.97					
WVF5FT	8.97					
DCCL	4.88					
CCL	4.88					
GR	3.54		GR-Probe275dig (PRO120885) Probe Digital Gamma CCL	4.78	2.75	57.00
TEMP	0.08		TEMP-Probe (080510) Probe 1 3/8" Temp	1.00	1.38	4.00
Dataset: wildhorse_5_64_15_16_1bhz.db: field/well/run1/pass1 Total length: 15.53 ft Total weight: 161.00 lb O.D.: 2.75 in						

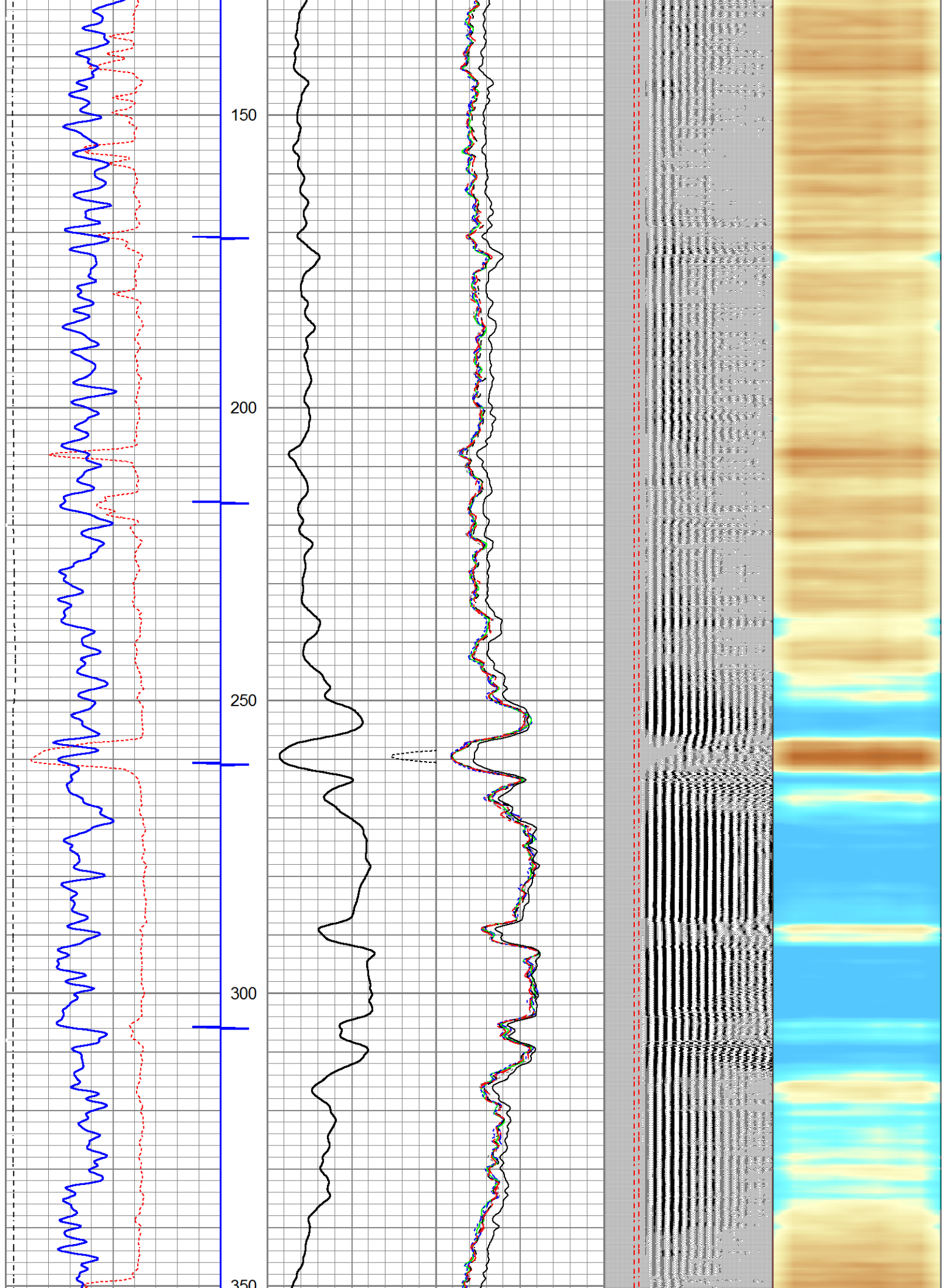


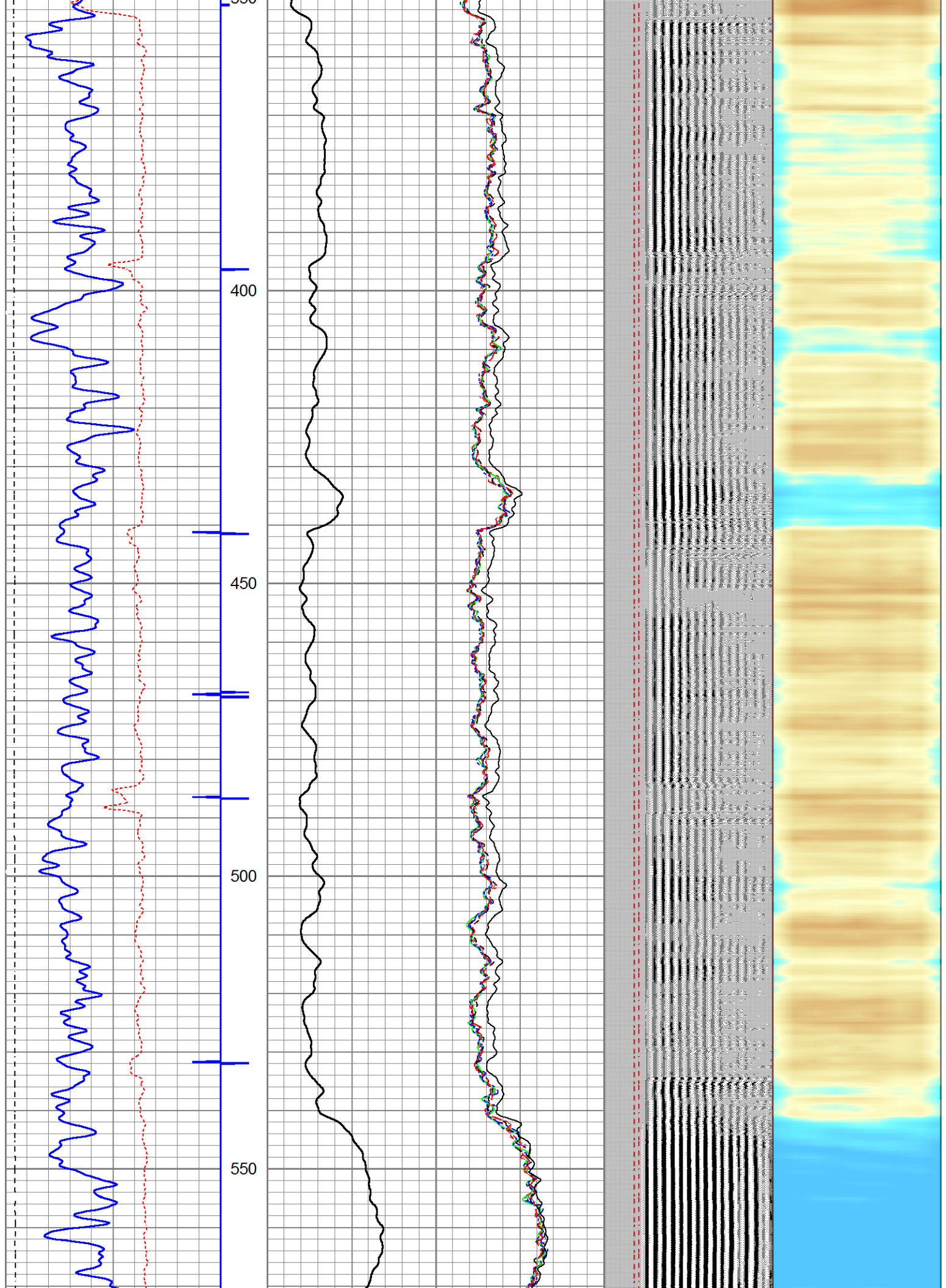
Database File wildhorse\_5\_64\_15\_16\_1bhz.db  
Dataset Pathname pass1  
Presentation Format rbl55  
Dataset Creation Tue Sep 26 16:57:43 2017  
Charted by Depth in Feet scaled 1:240

343	TT (usec)	243	0	Amplitude (mV)	100	-5	AMPS2	150	200	VDL (usec)	1200	Cement Map
0	GR (GAPI)	200	0	Amplified Amplitude		-5	AMPS3	150				
0	LTEN (lb)	4000	0	(mV)	10	-5	AMPS4	150	Free Pipe Gate			
						-5	AMPS5	150				
						-5	AMPS6	150				
						-5	AMPS7	150				
						-5	AMPS8	150				
						-5	AMPS1	150				

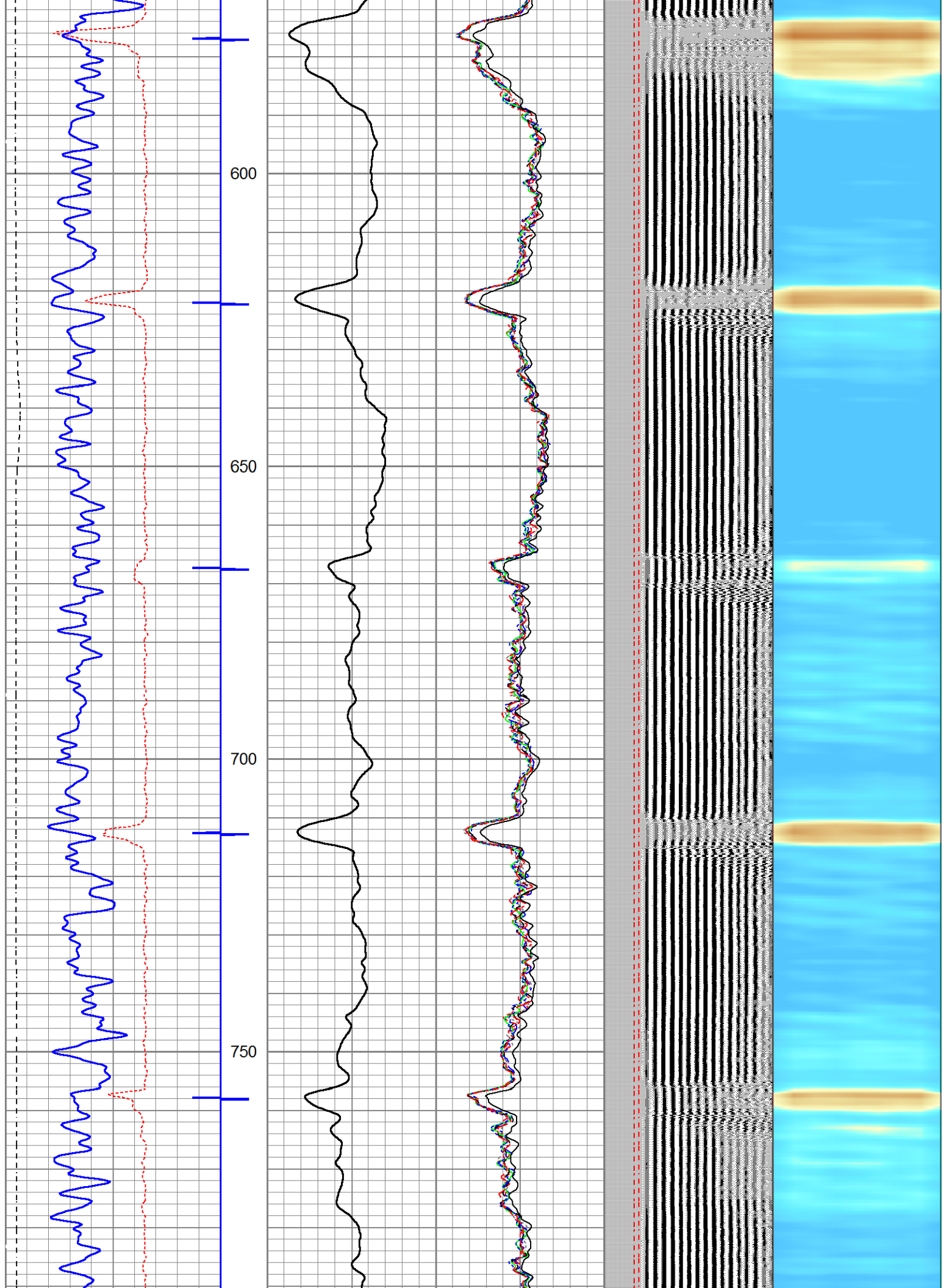


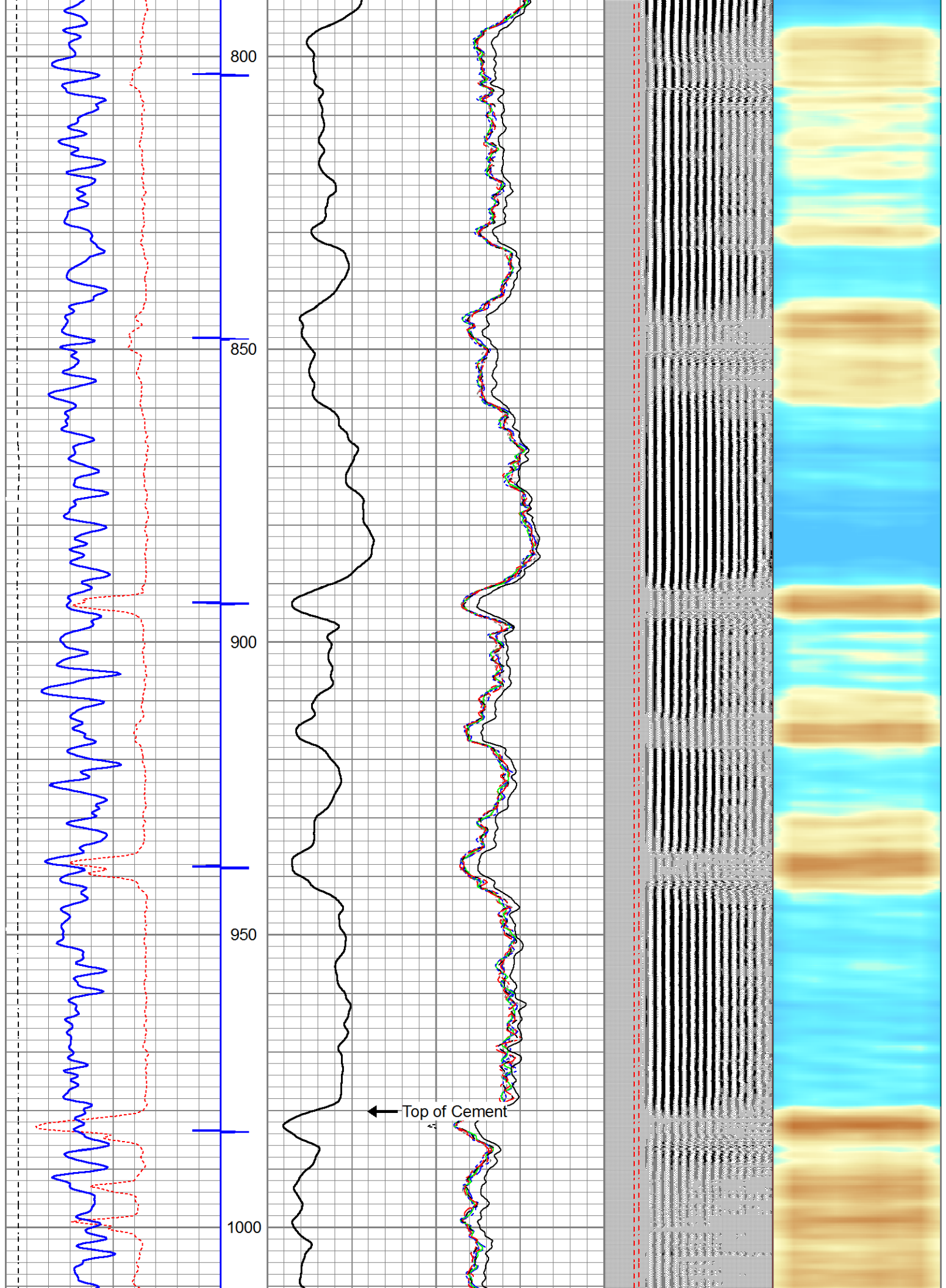




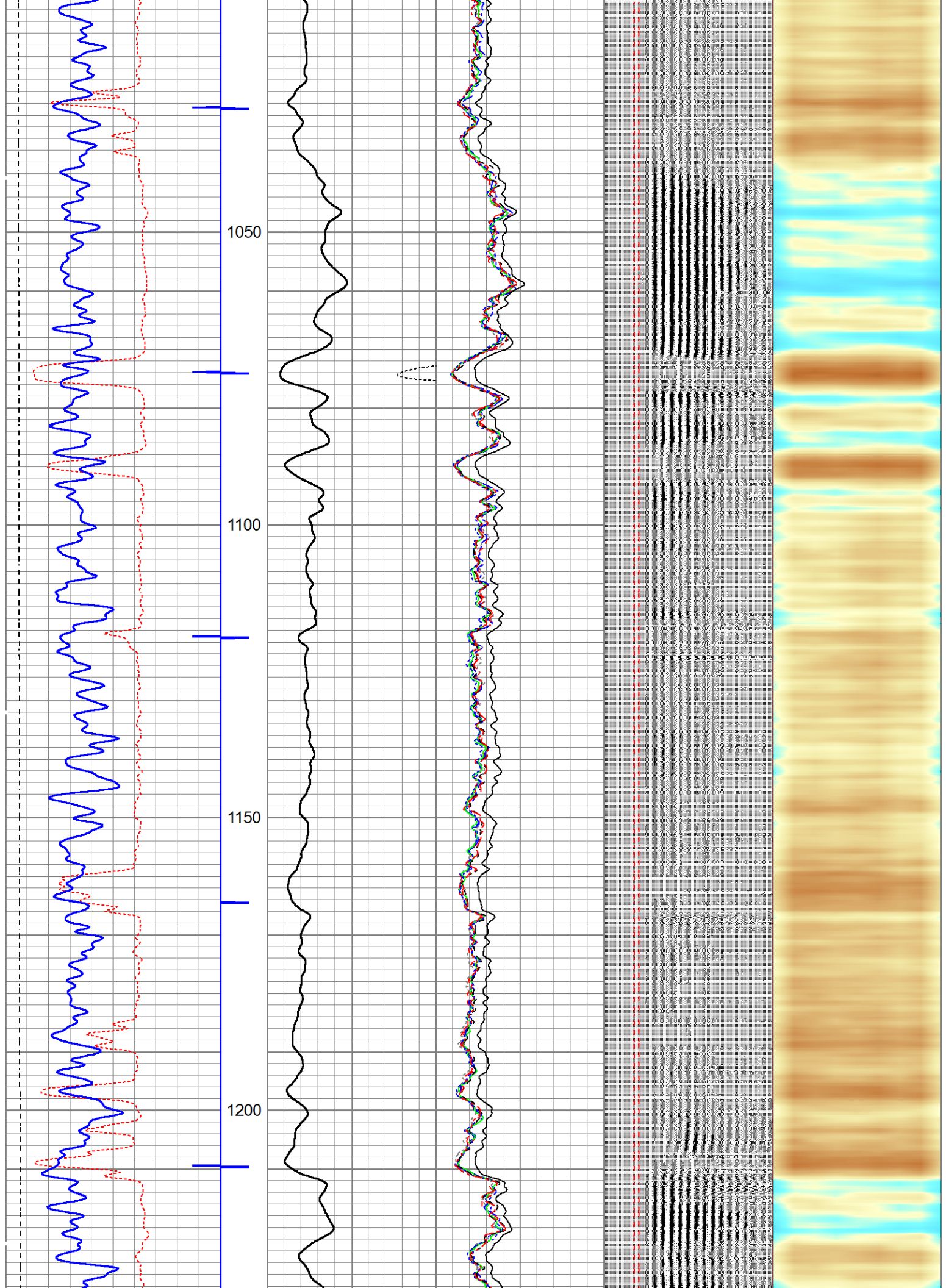




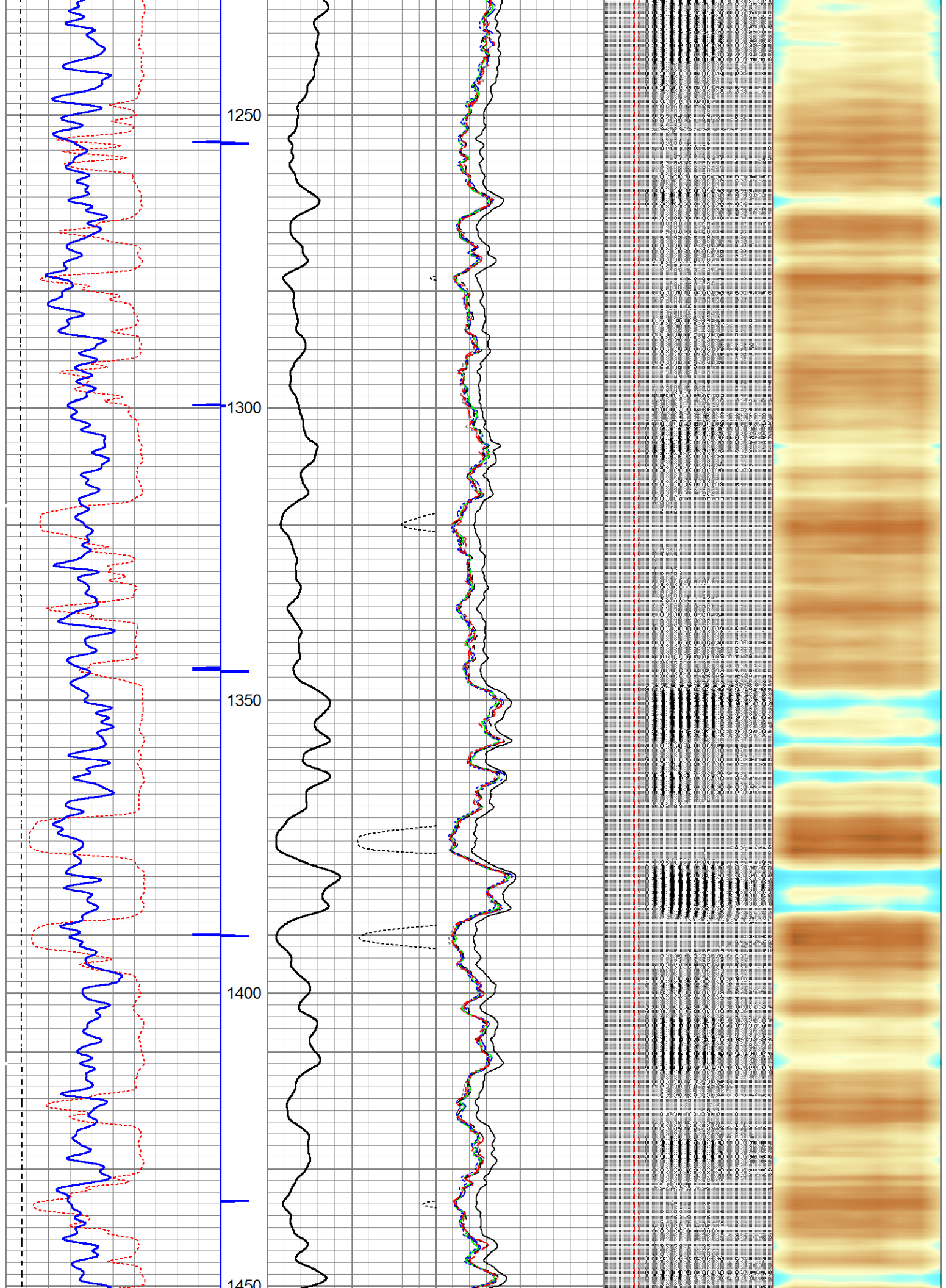


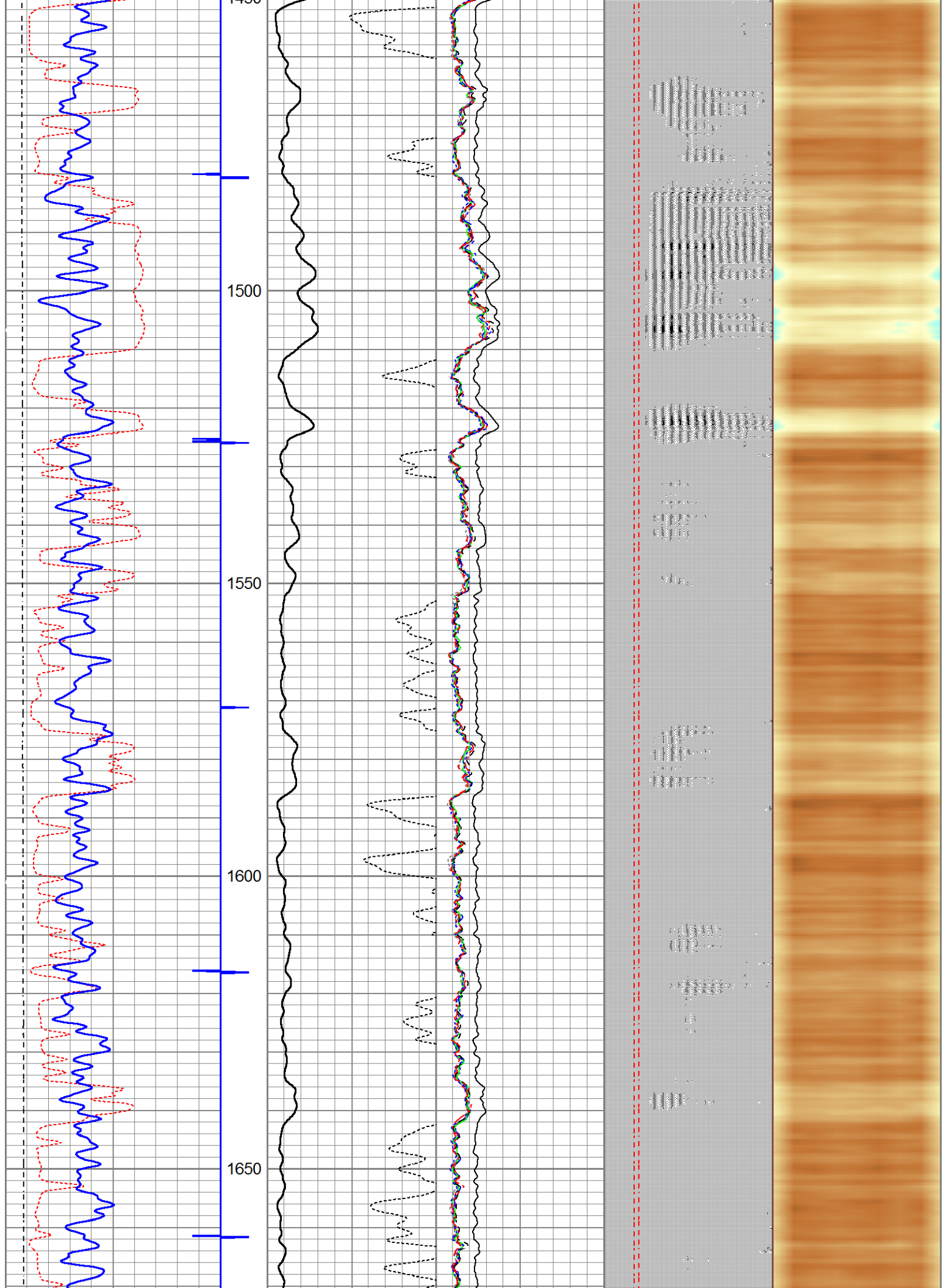




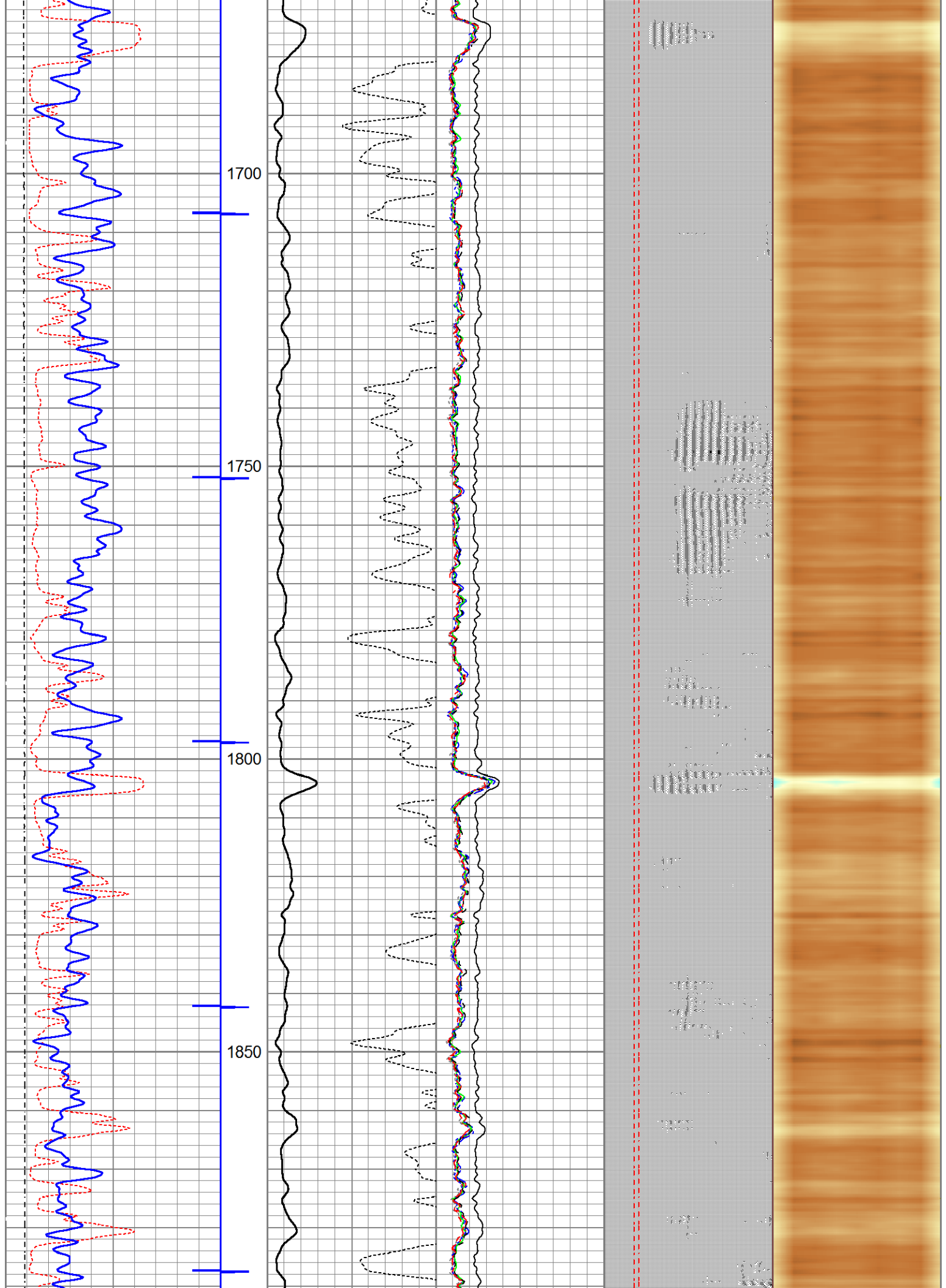


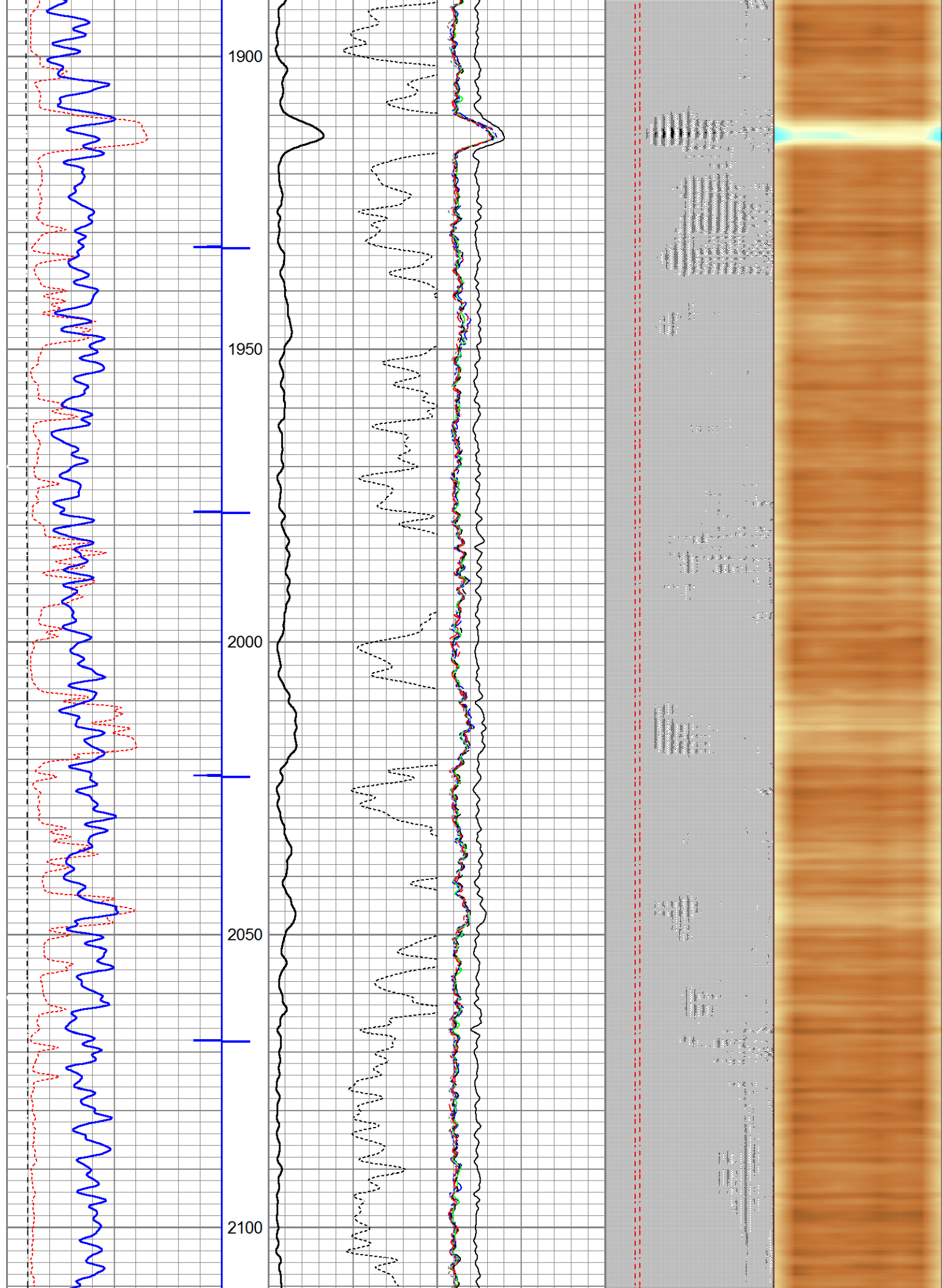




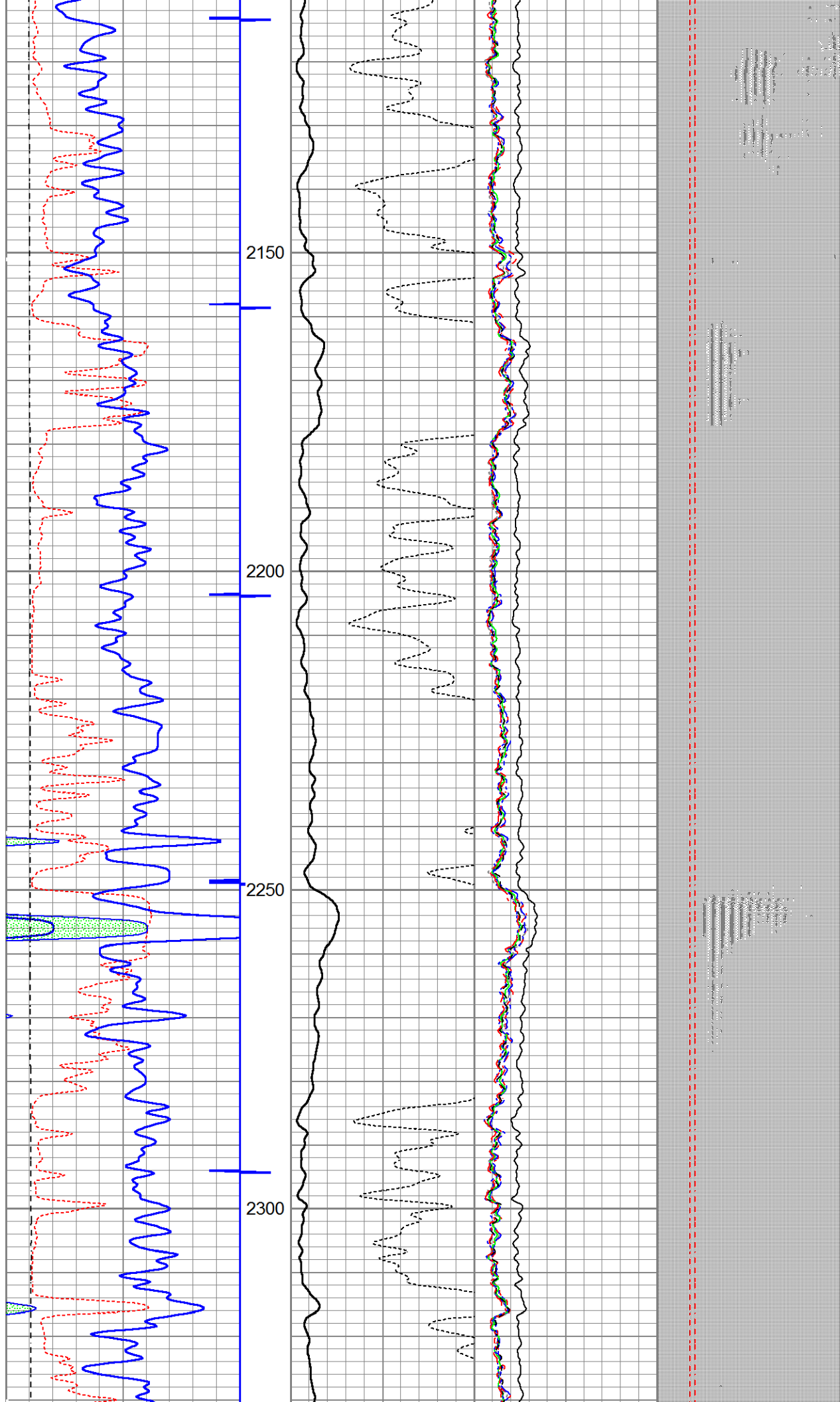


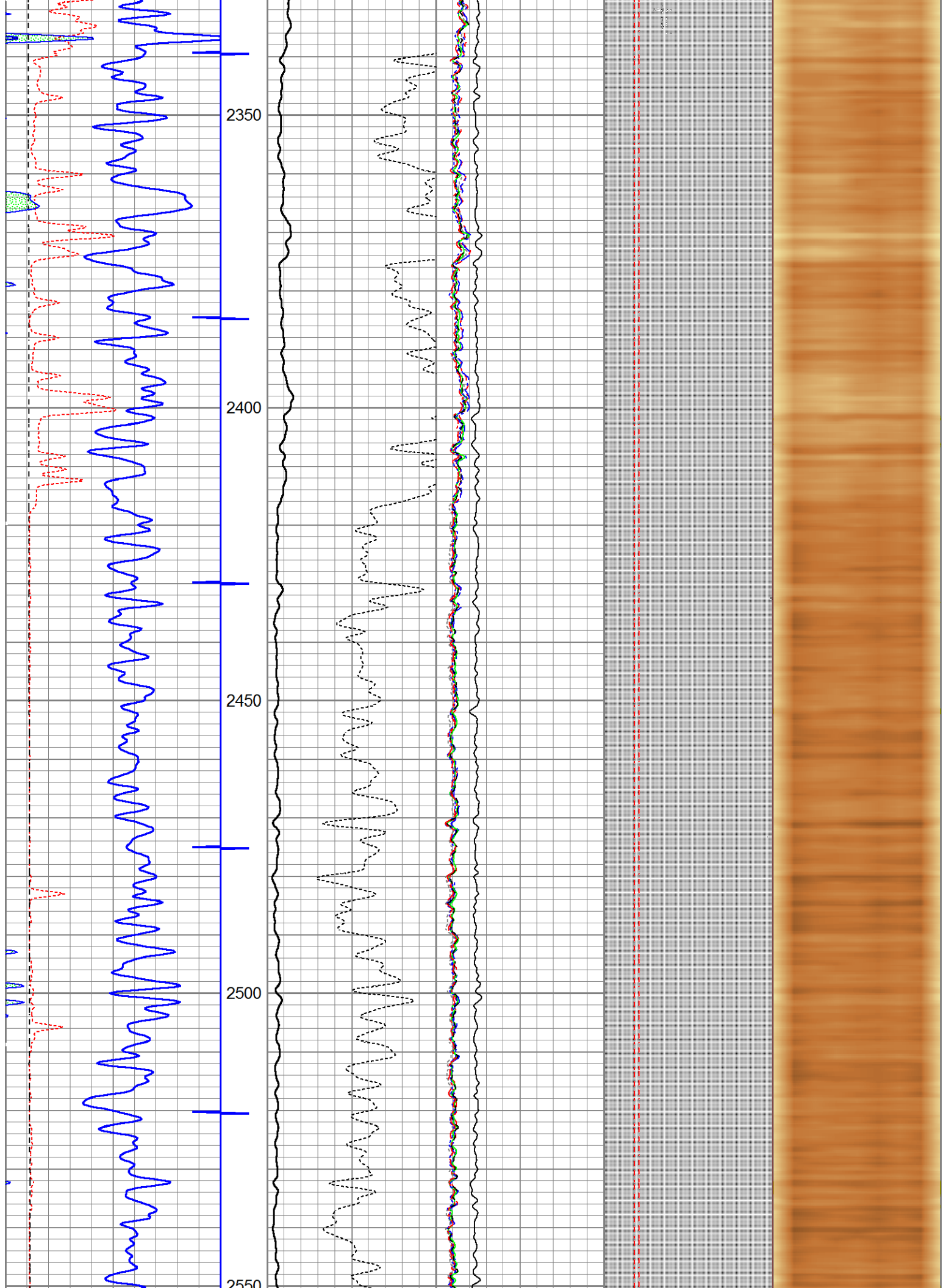




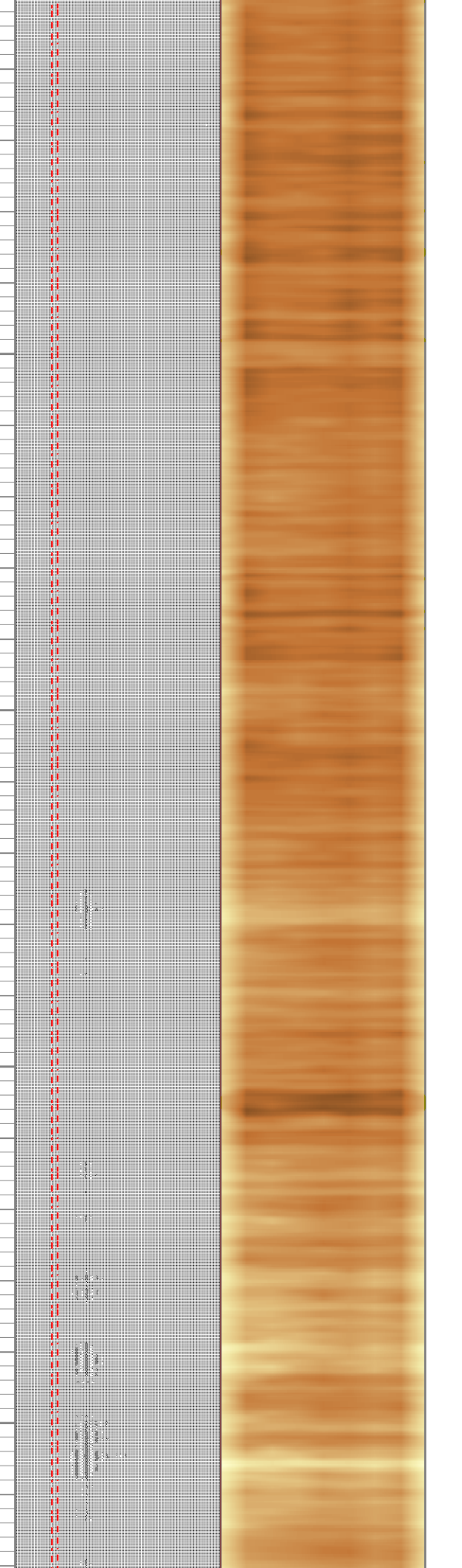
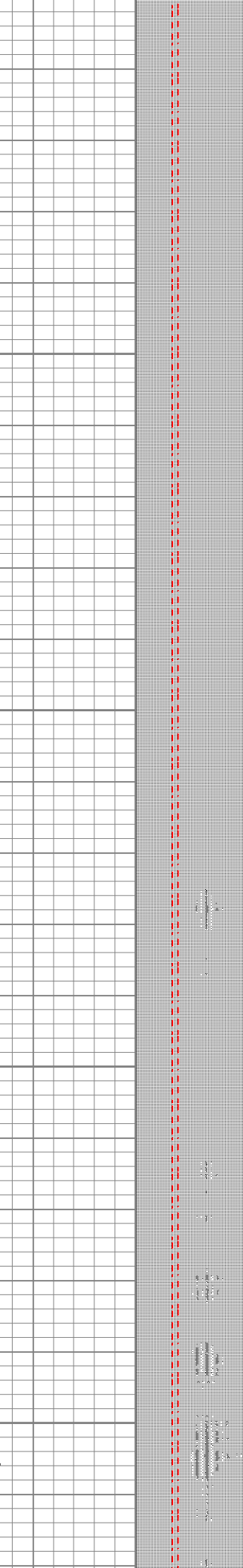
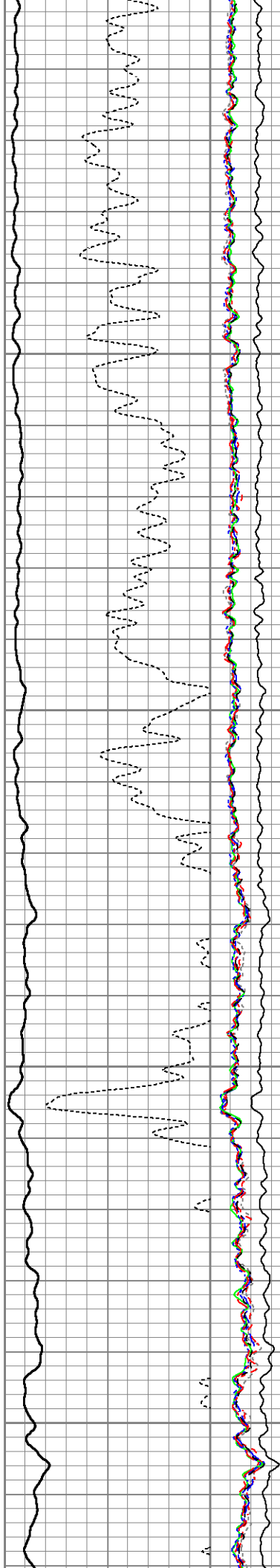
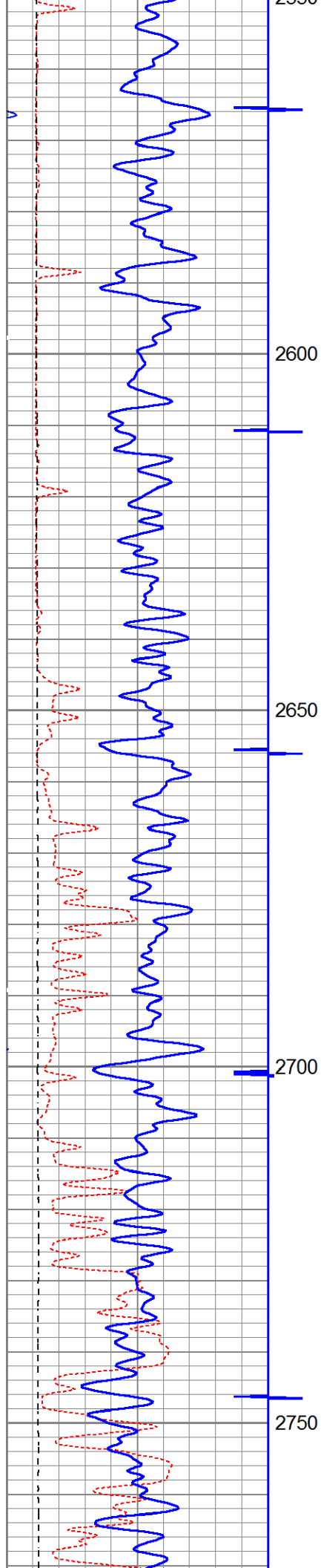


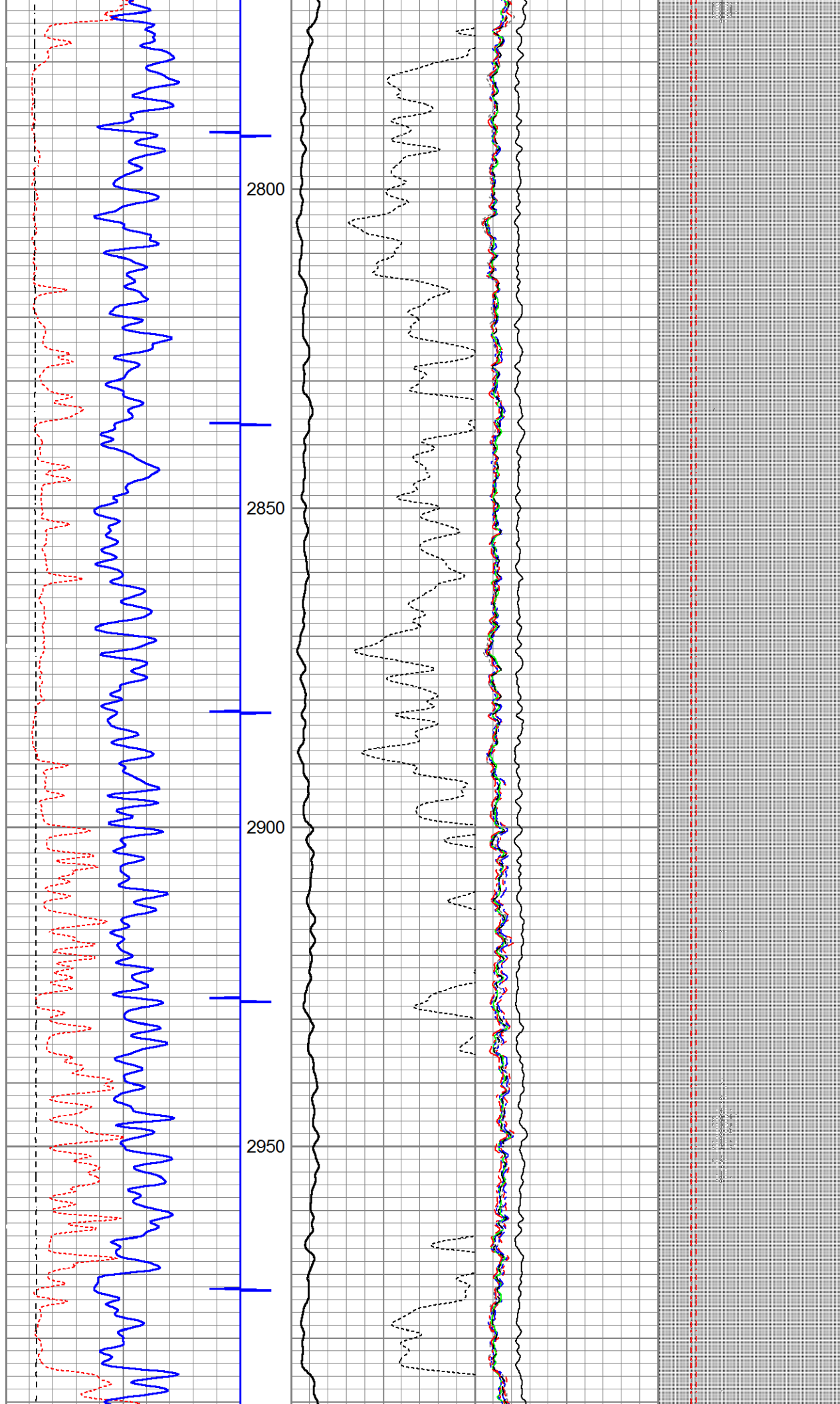




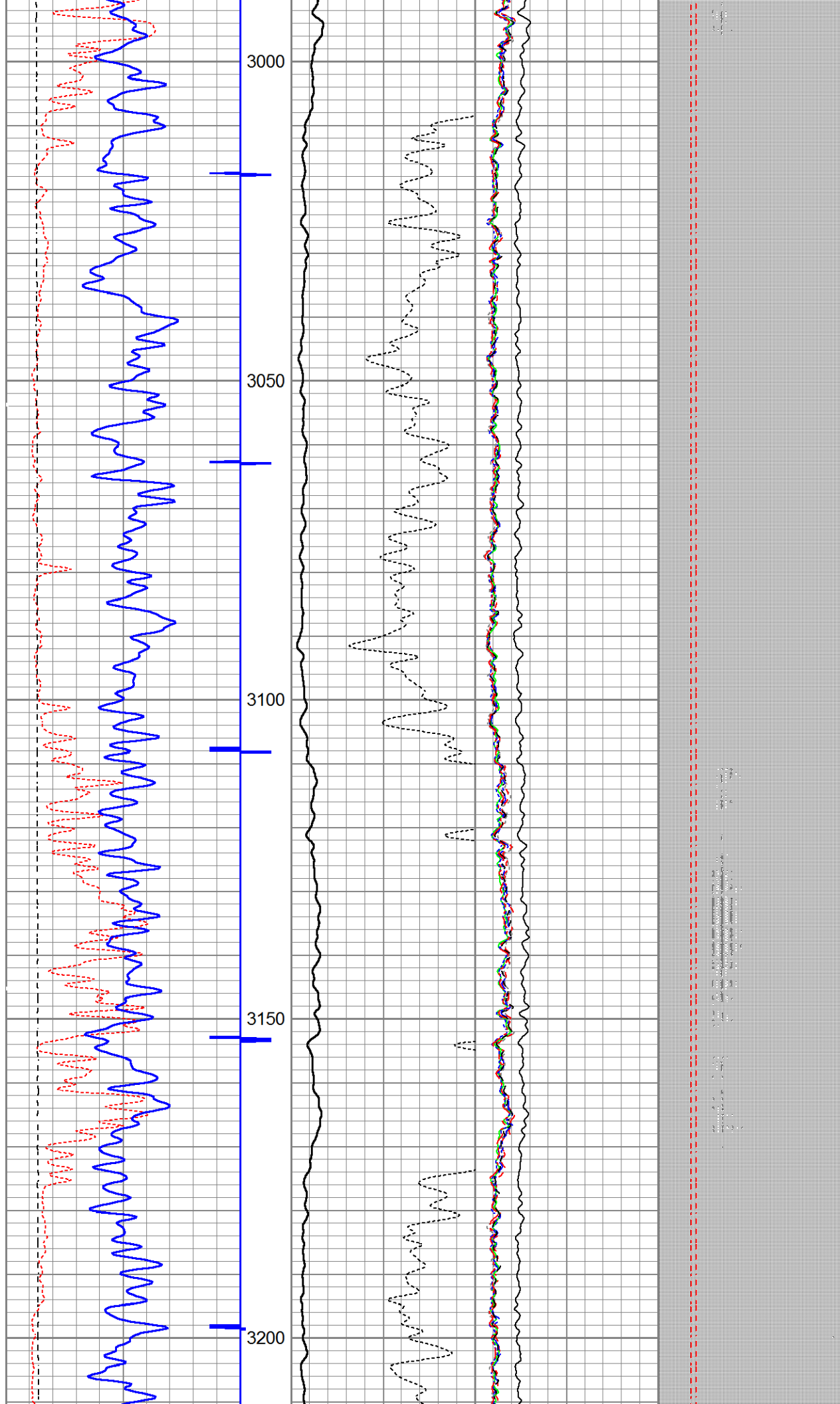


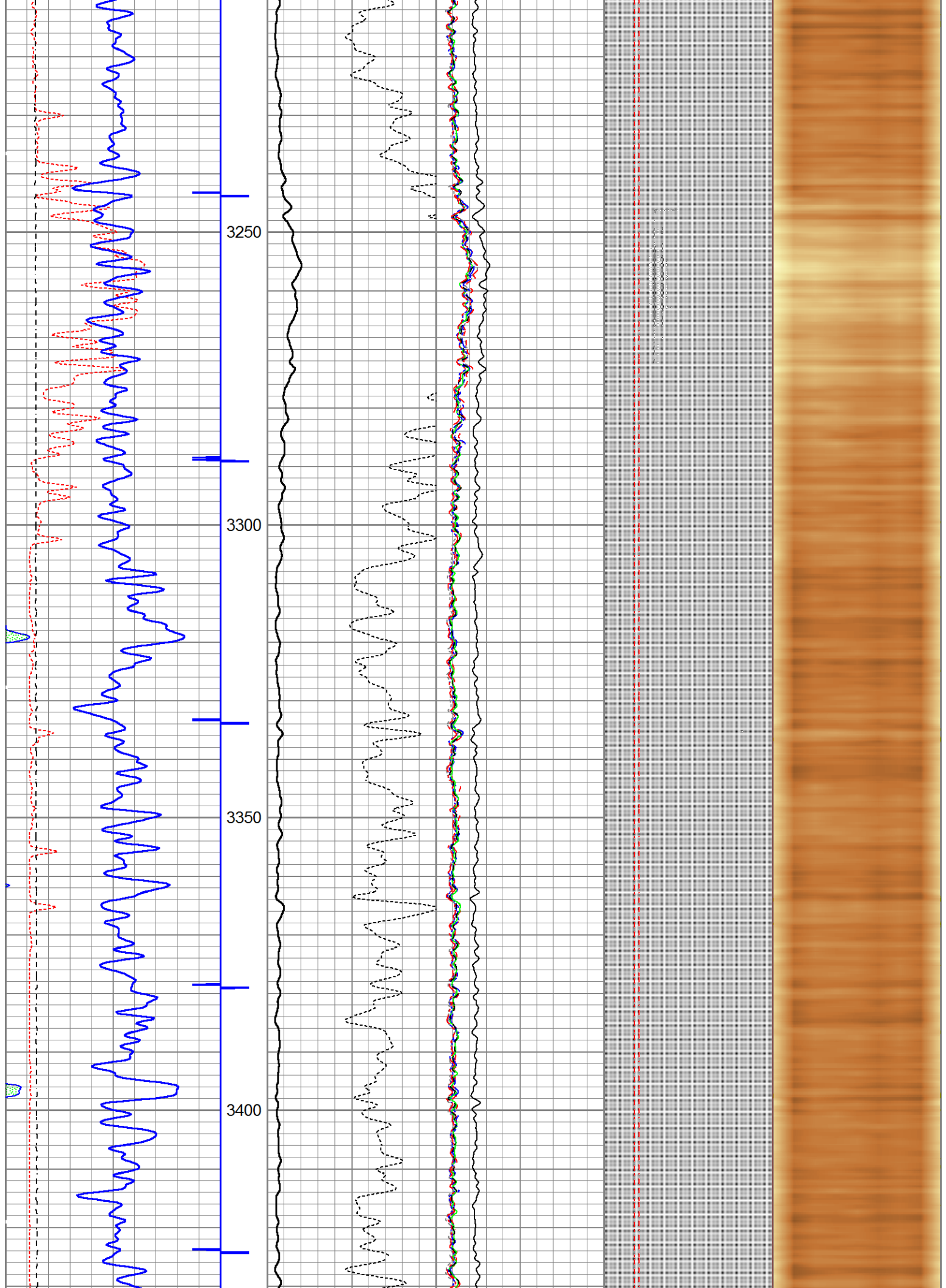


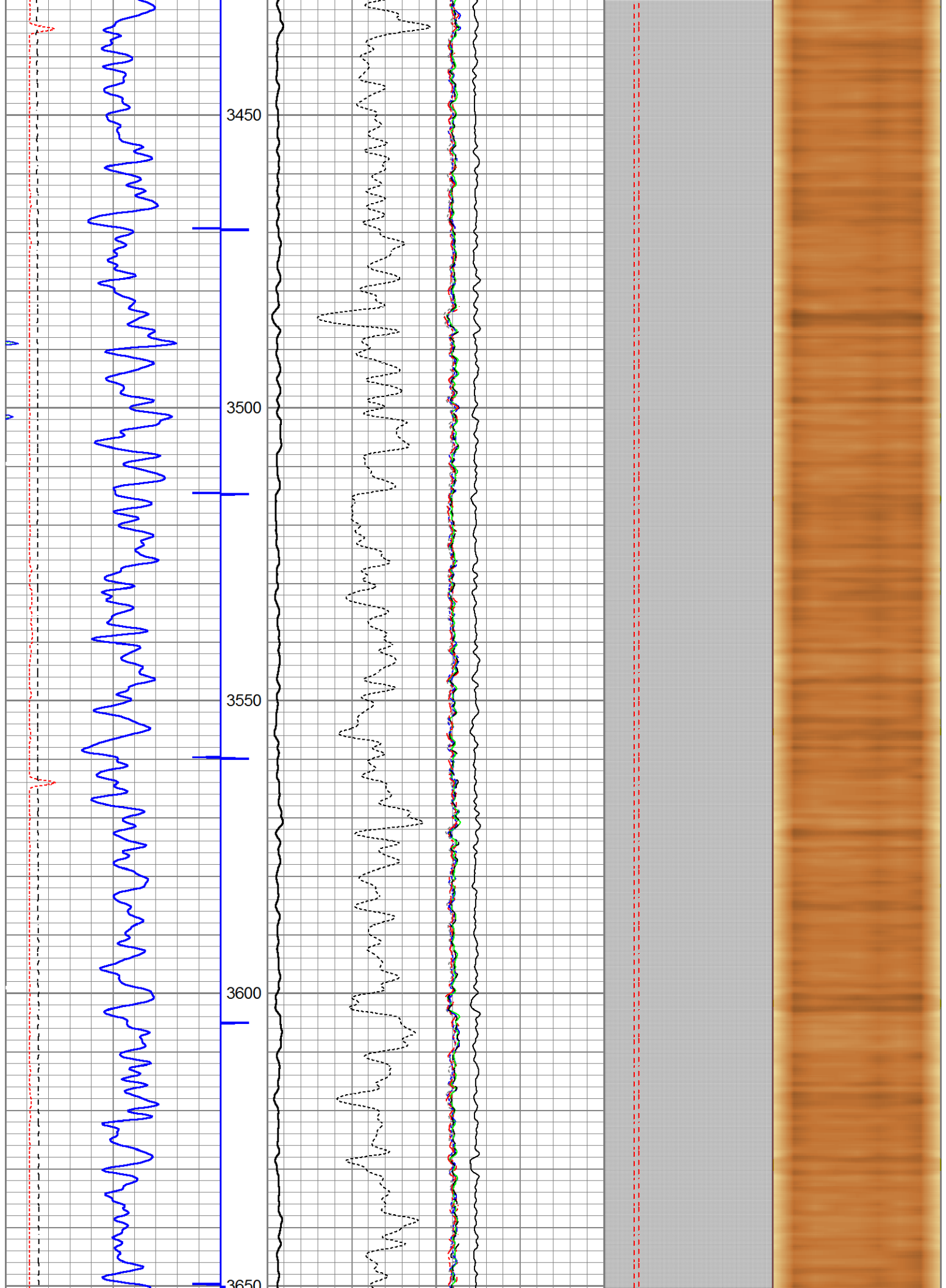




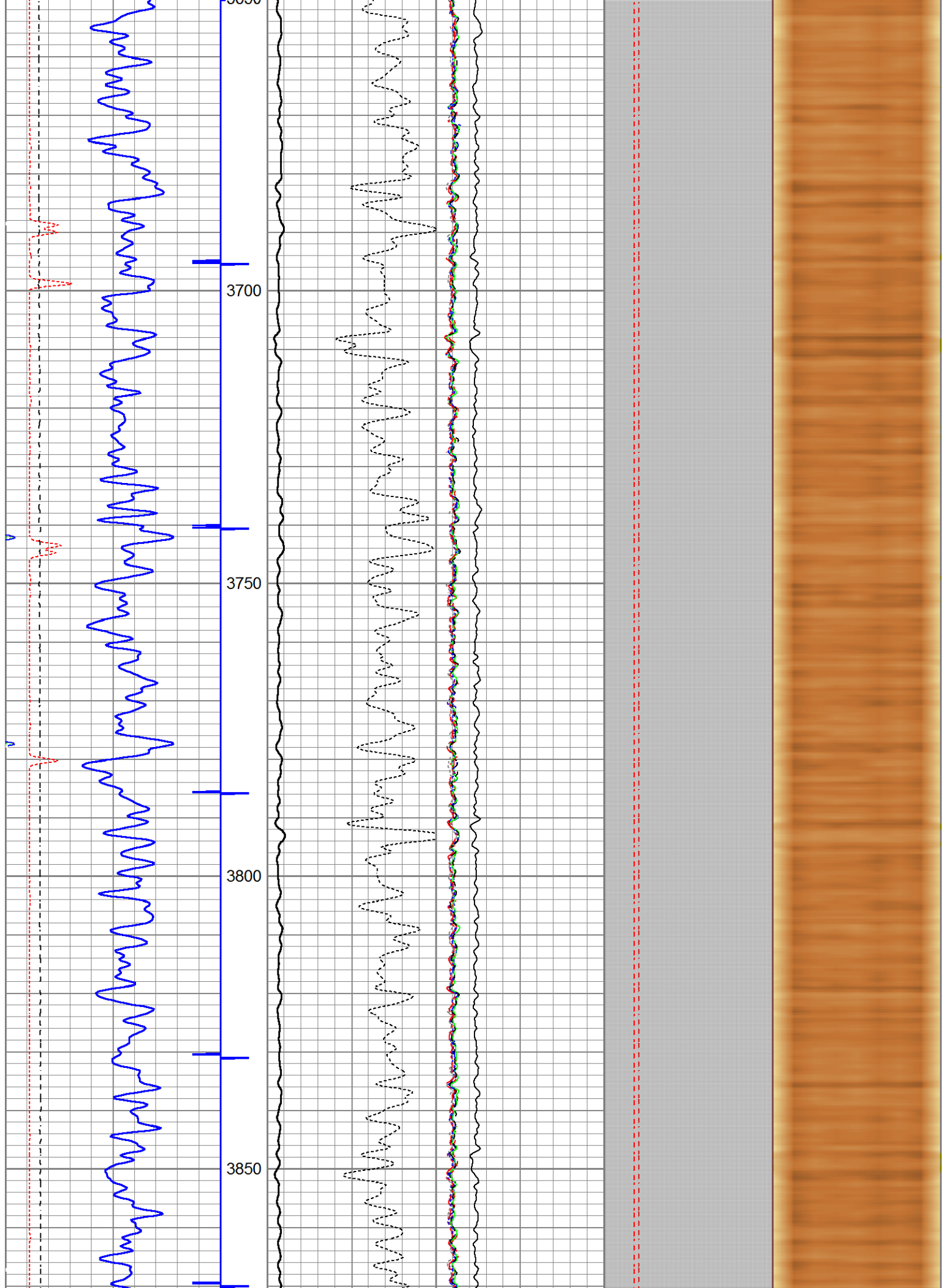


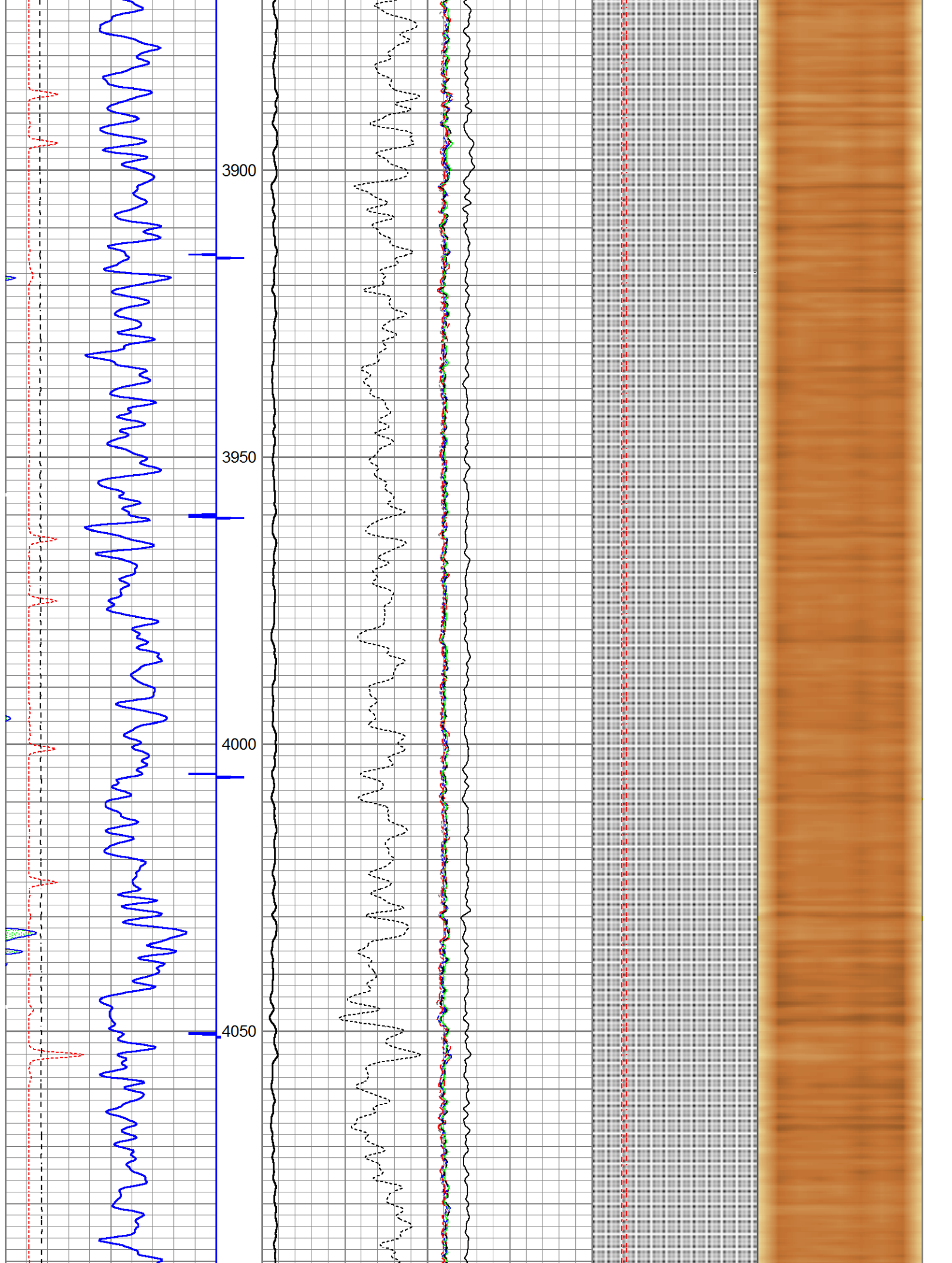


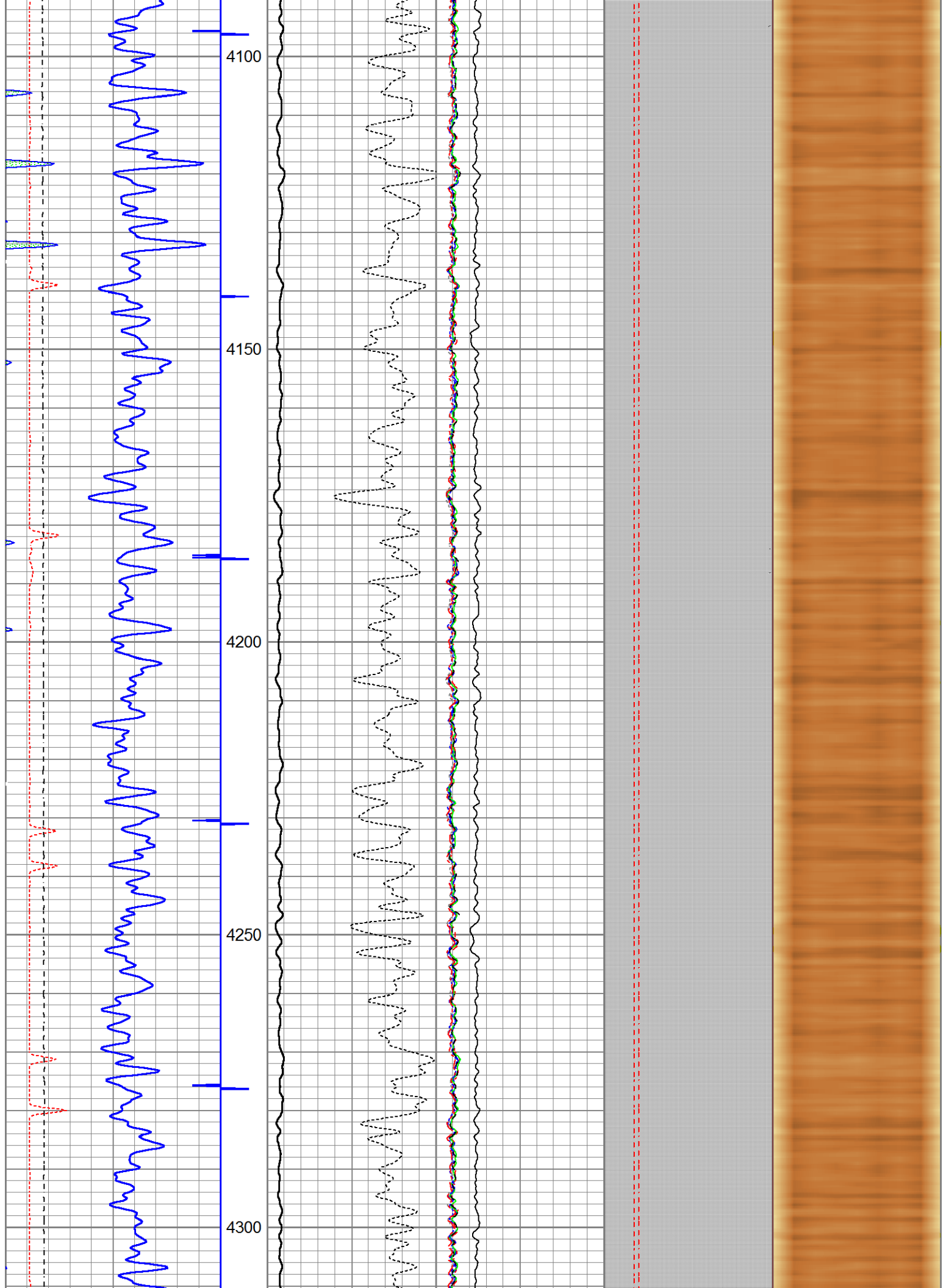




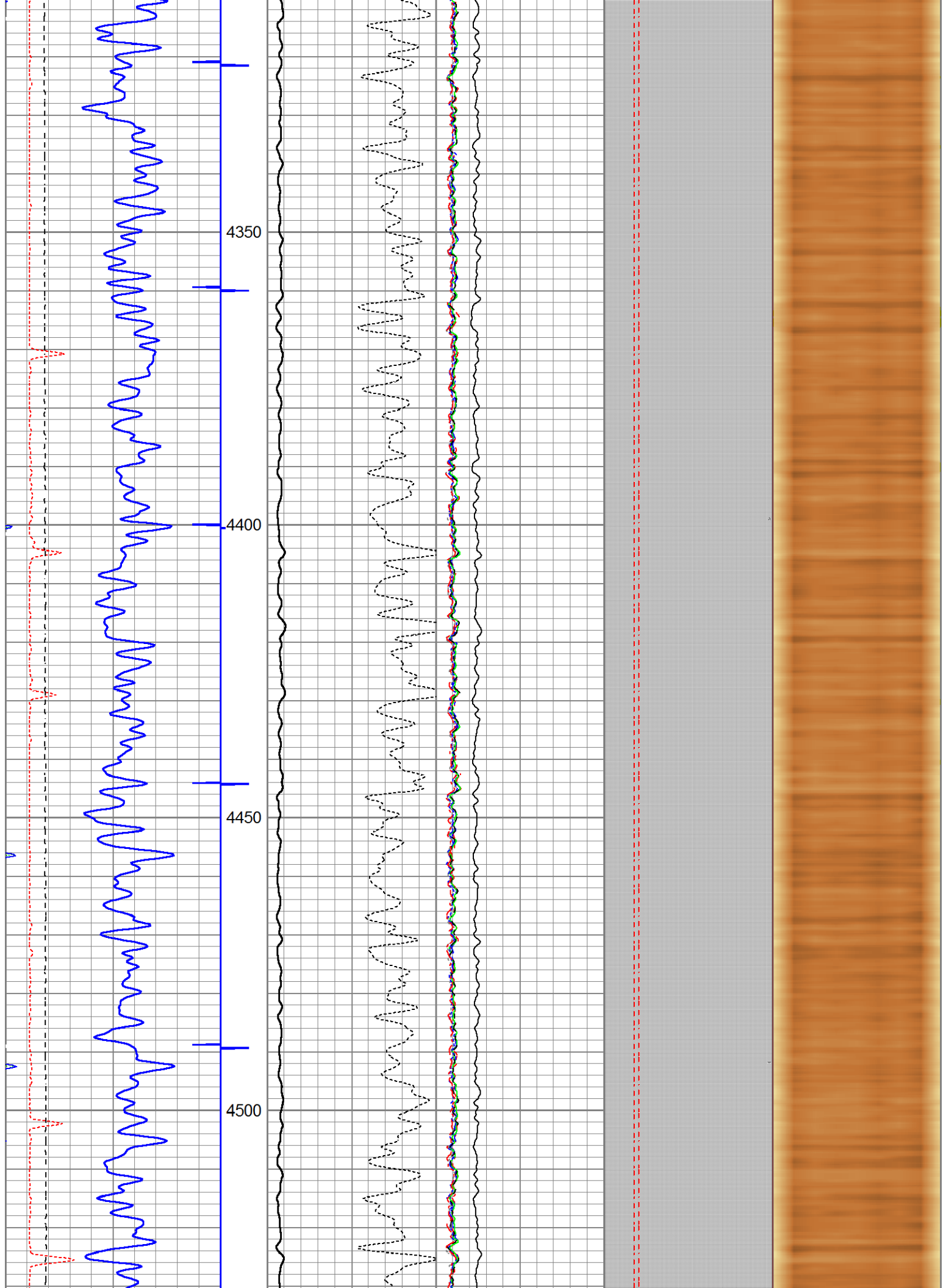


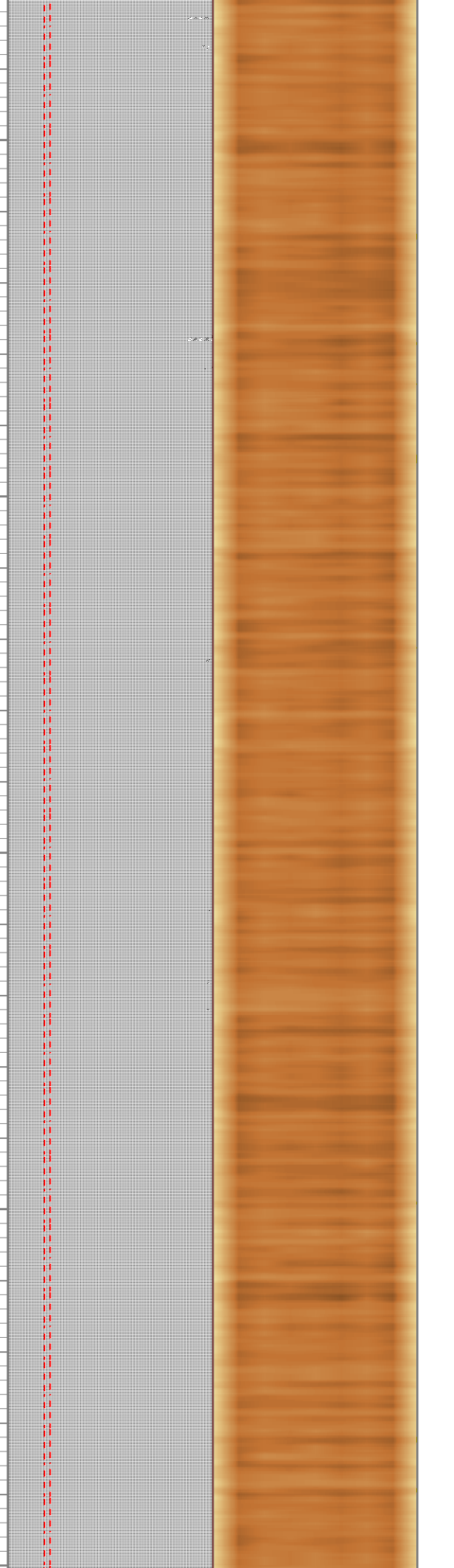
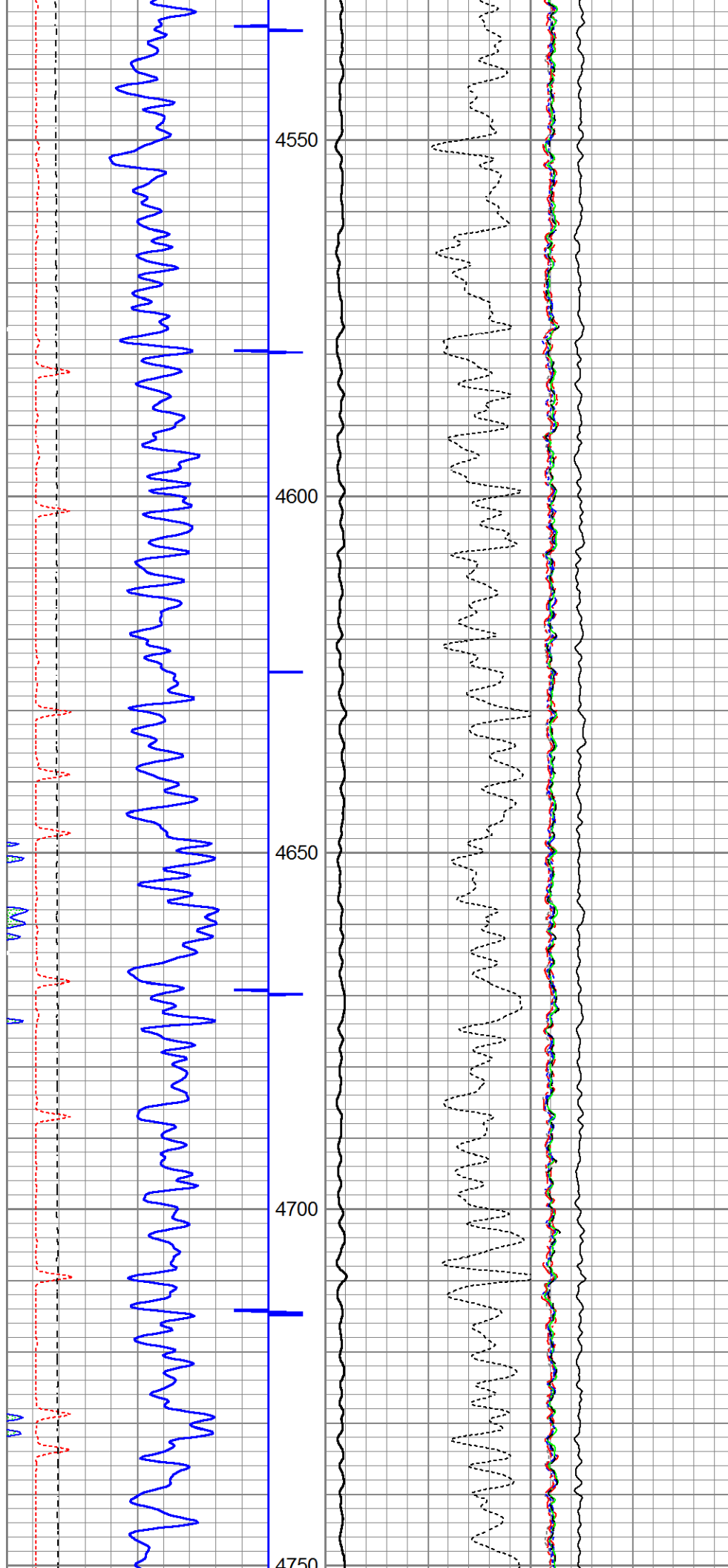


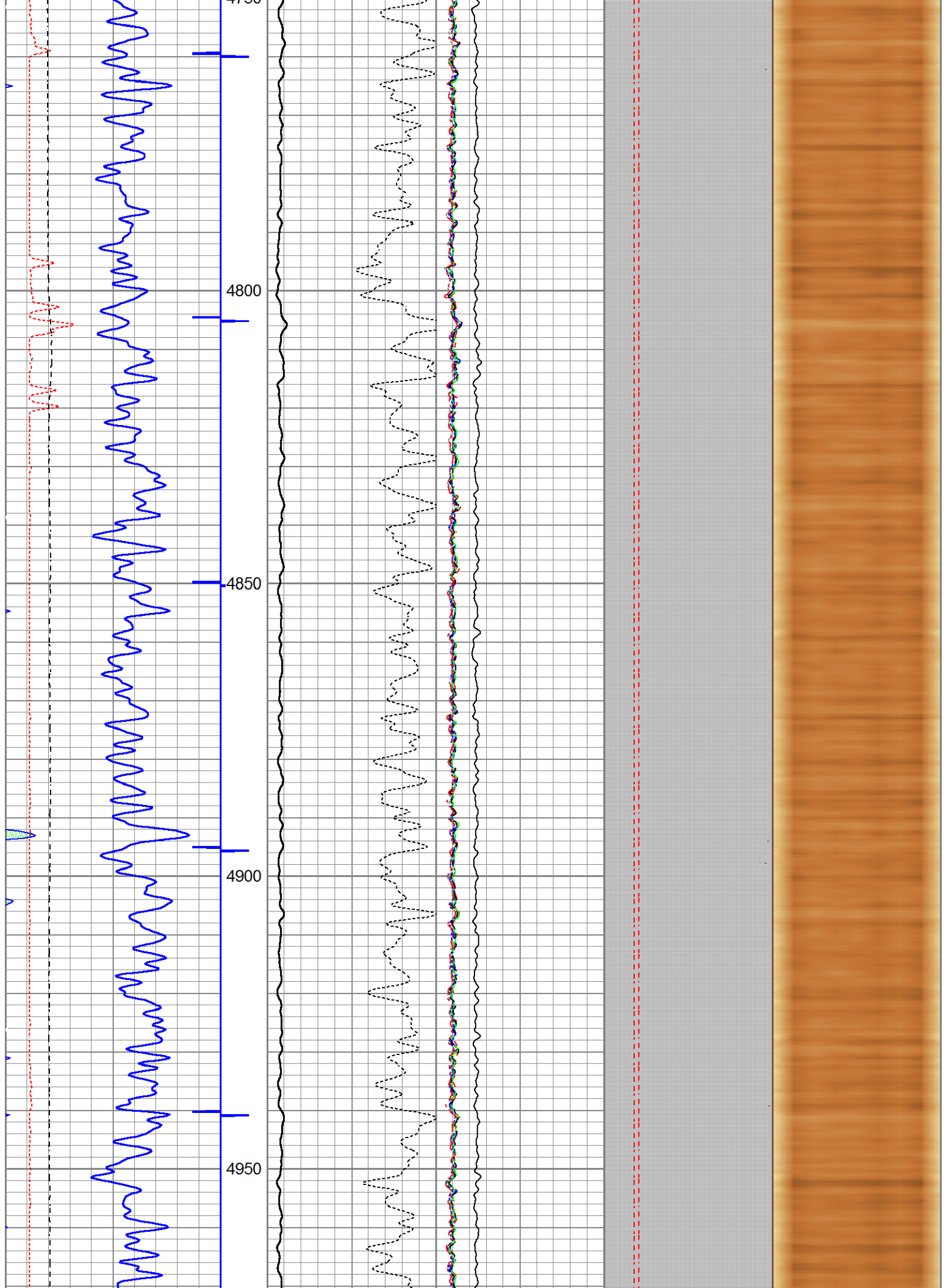




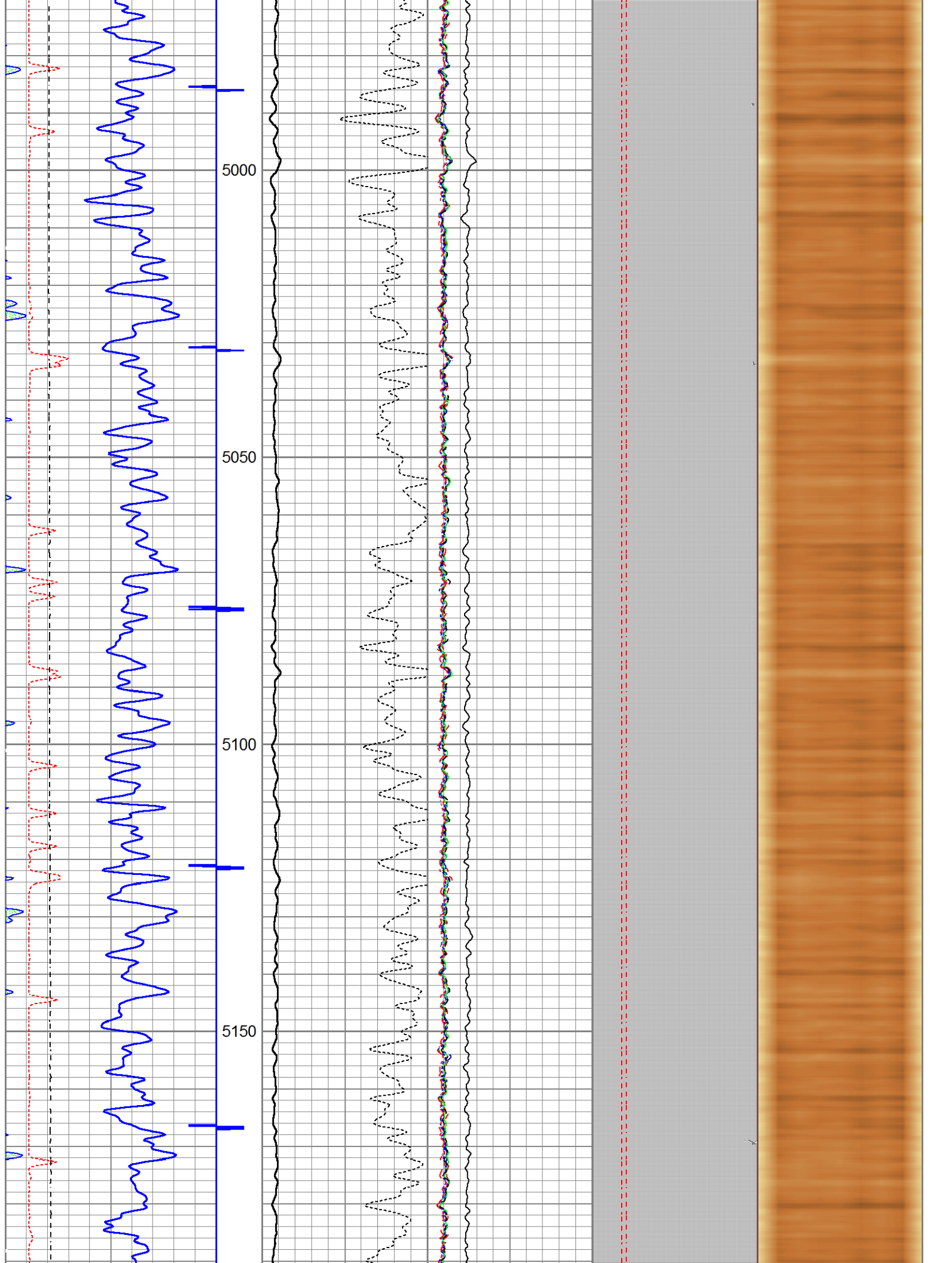


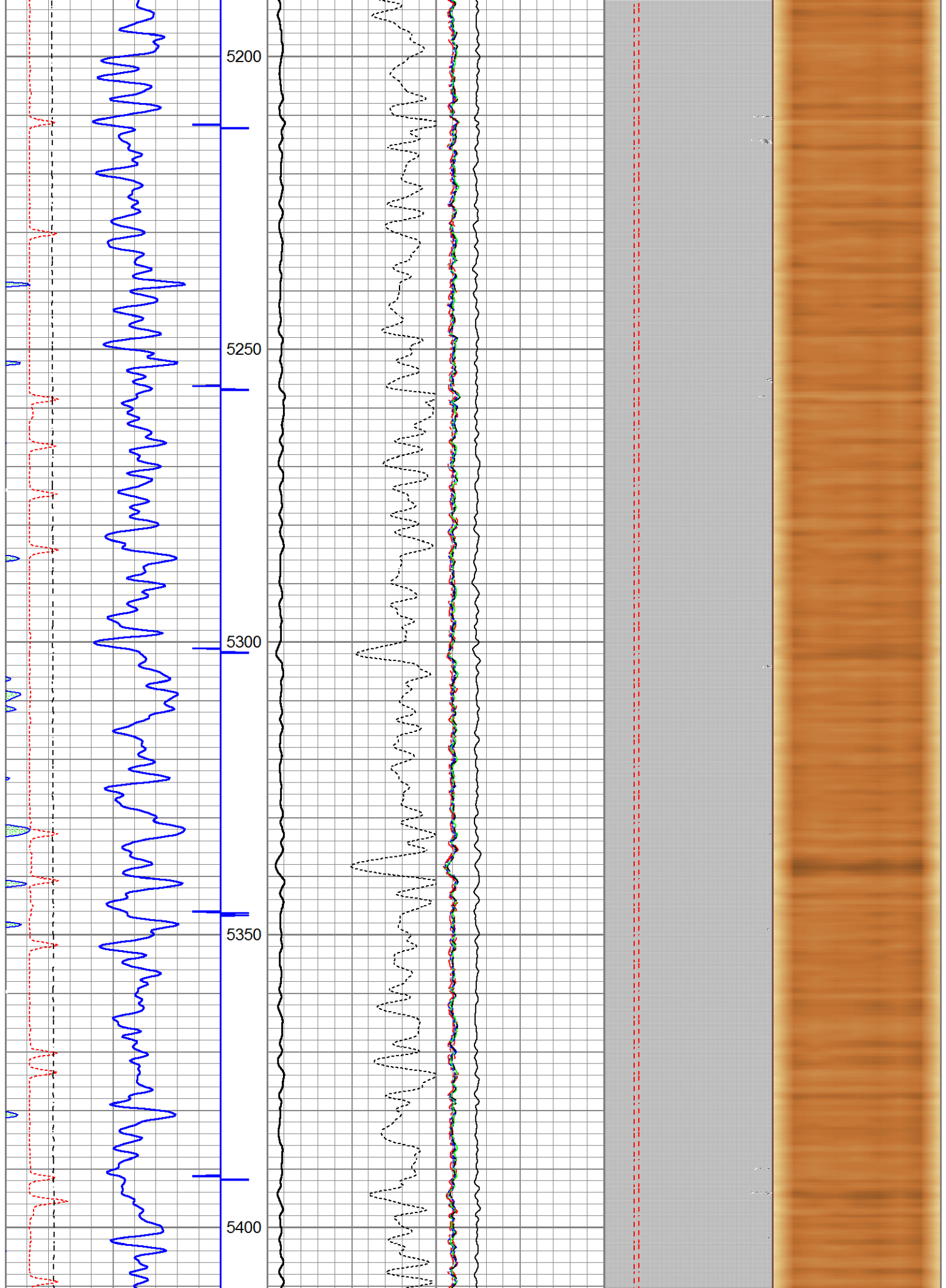


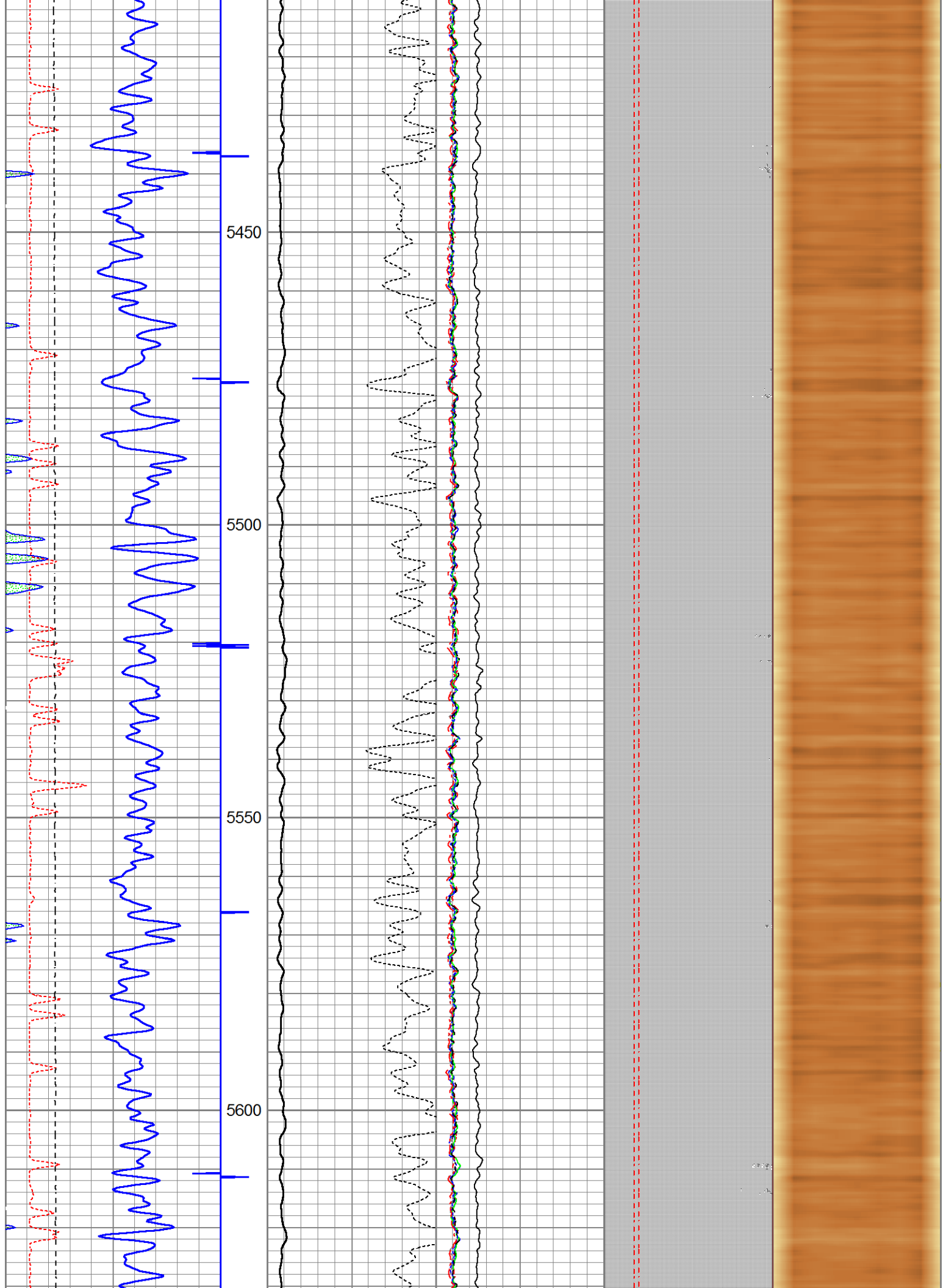




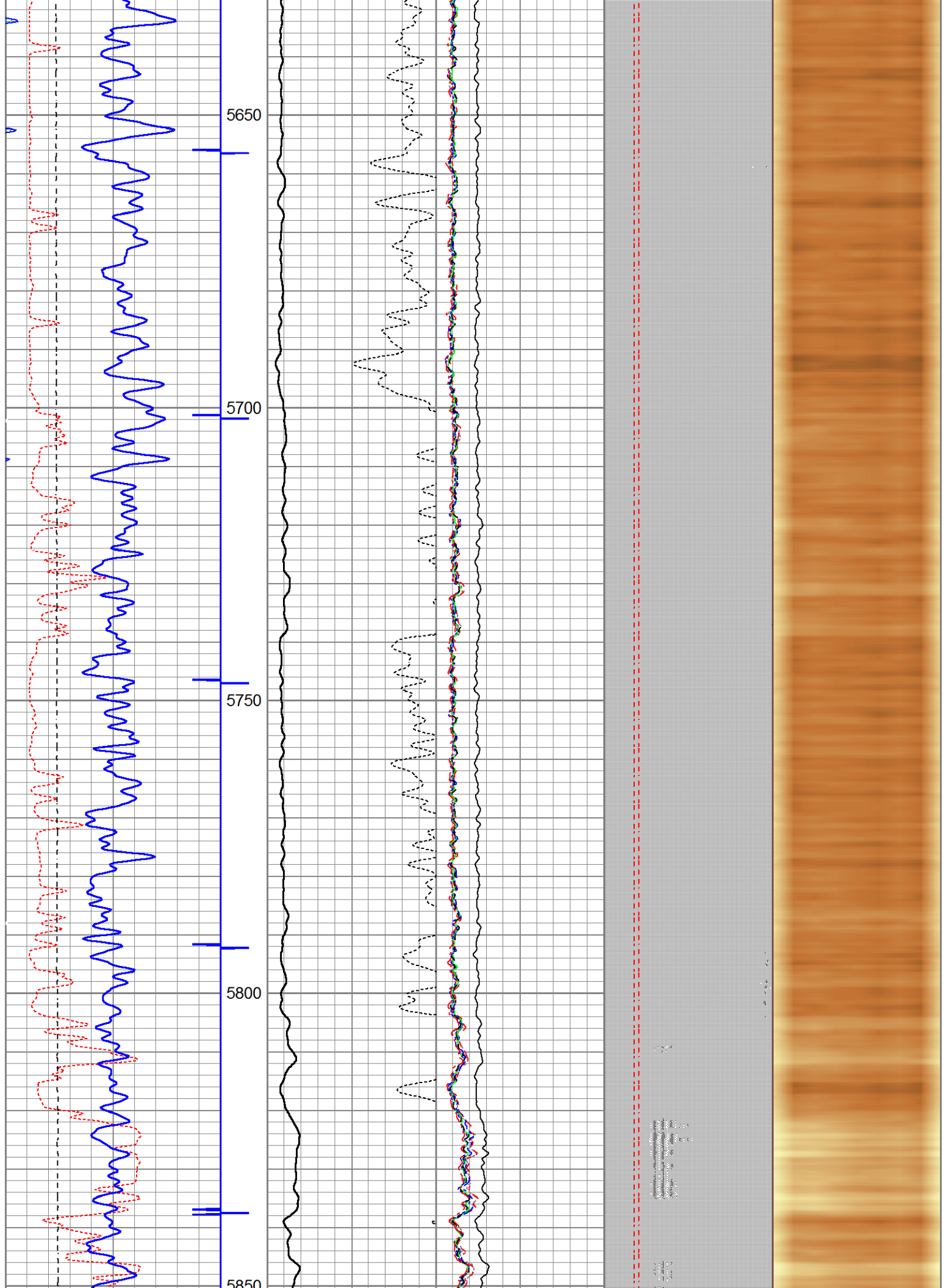


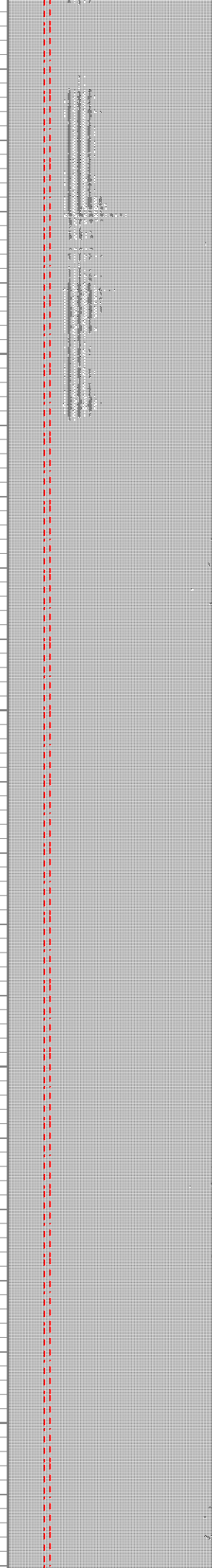
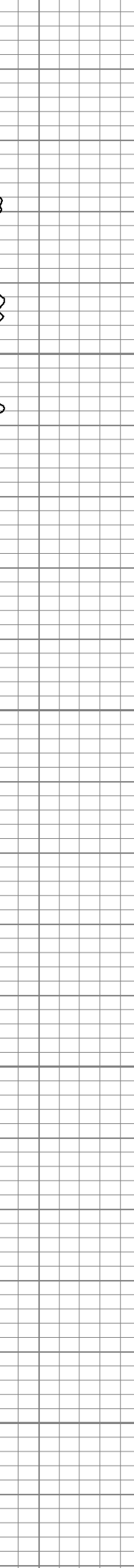
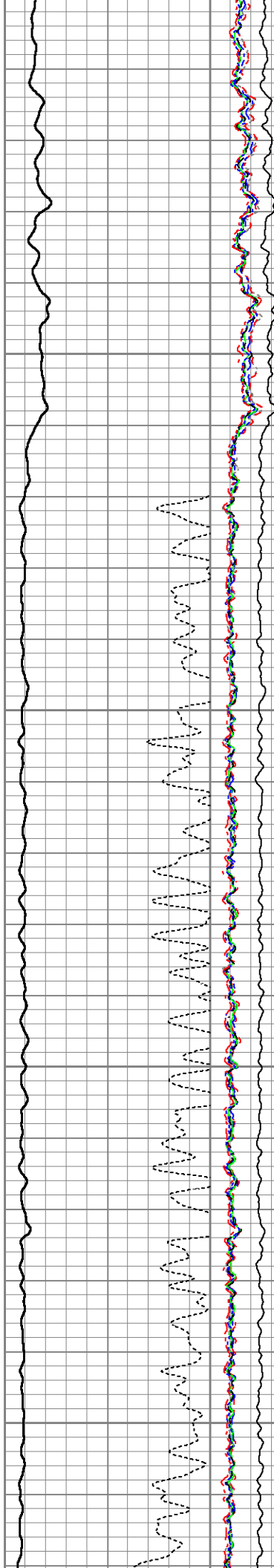
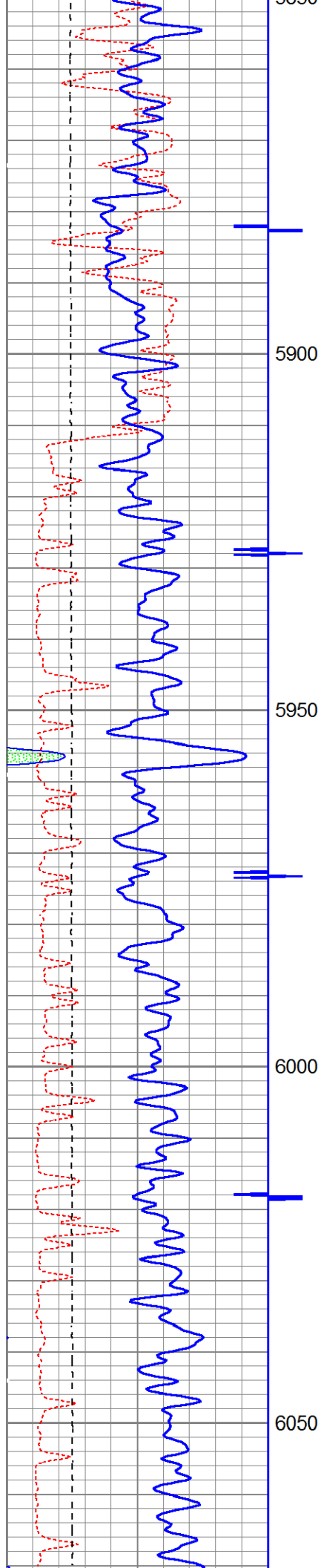


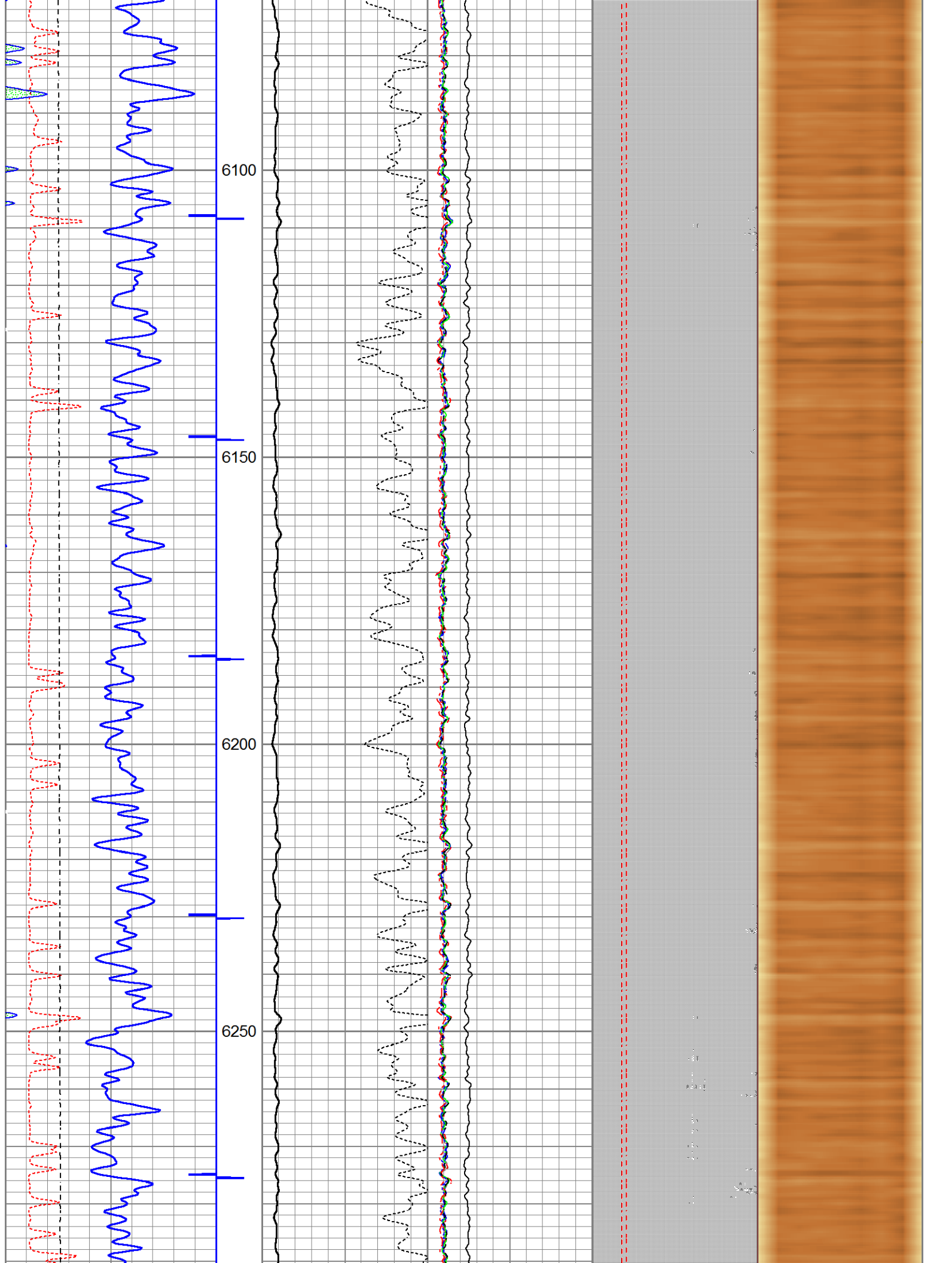




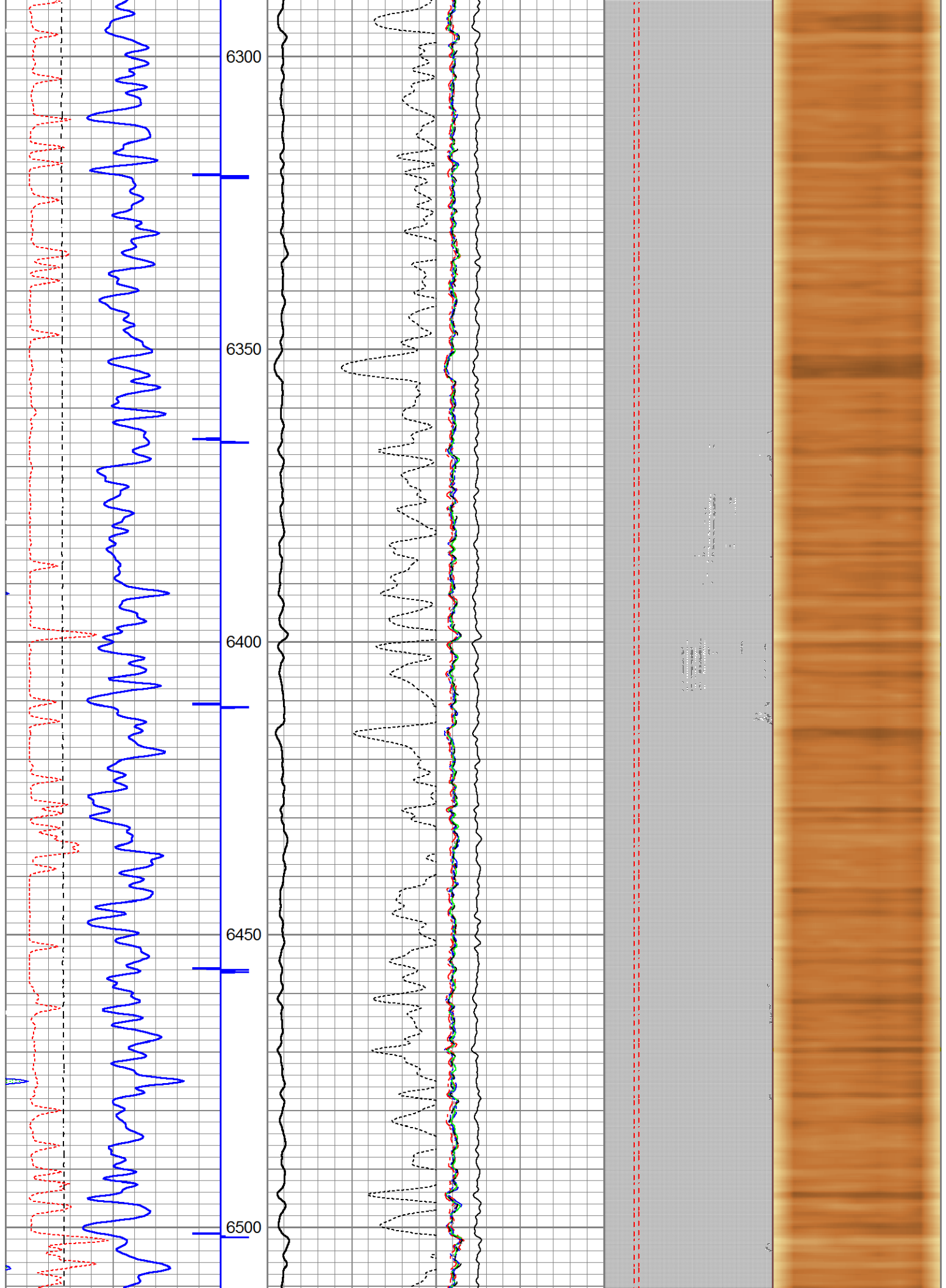


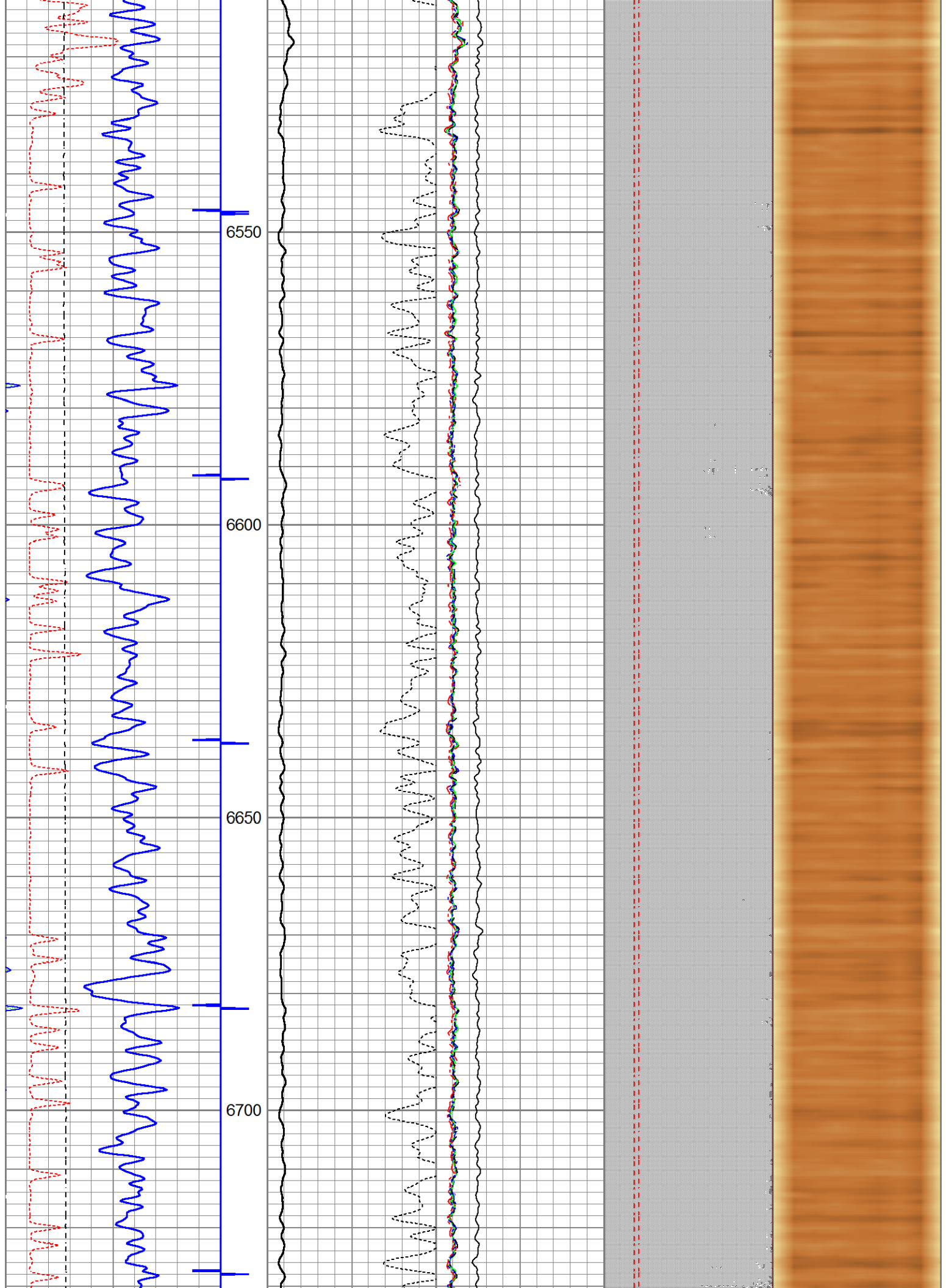


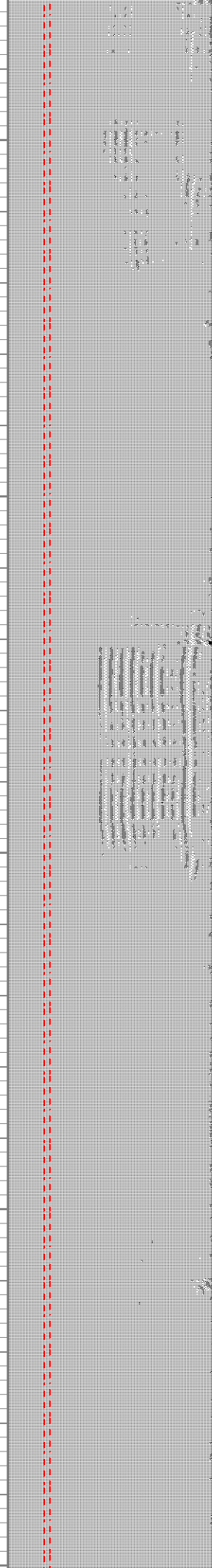
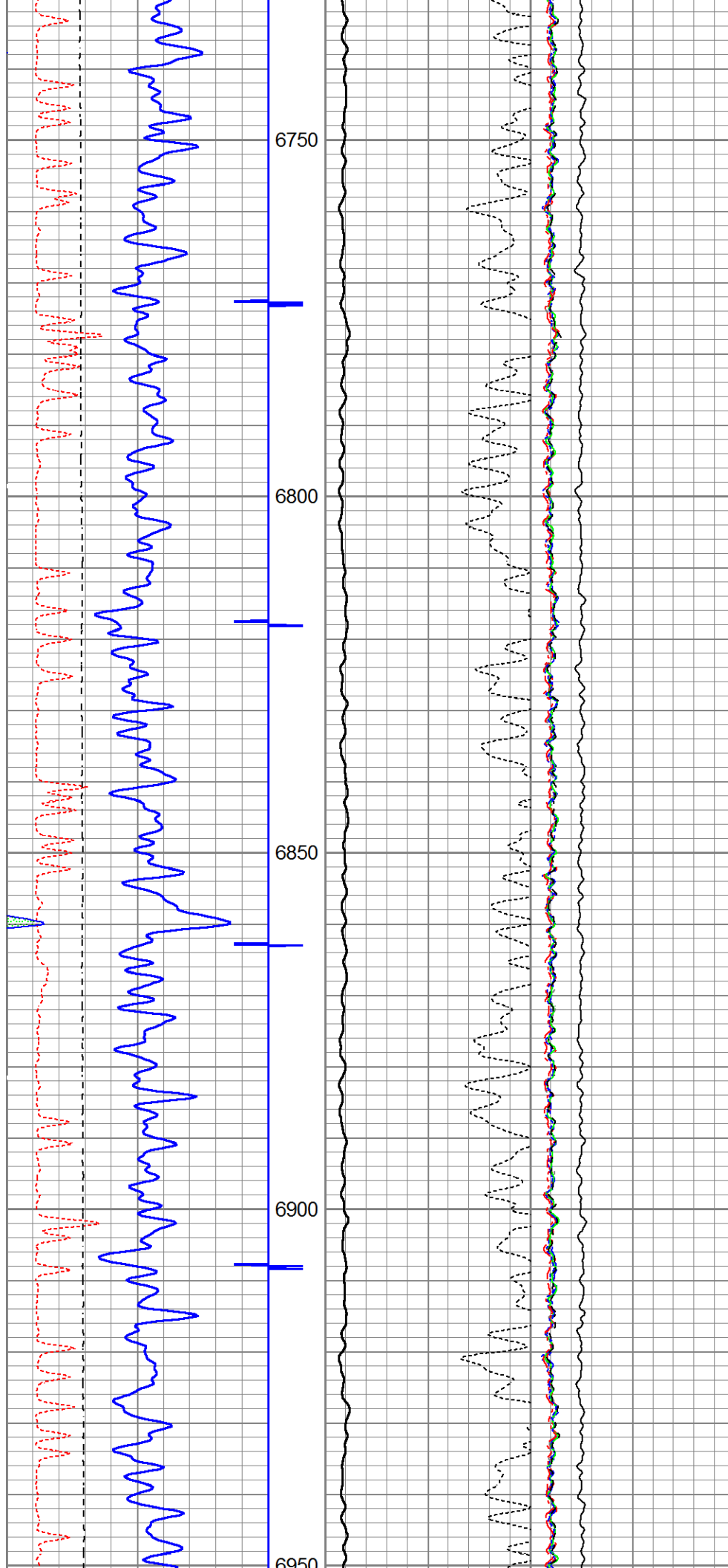




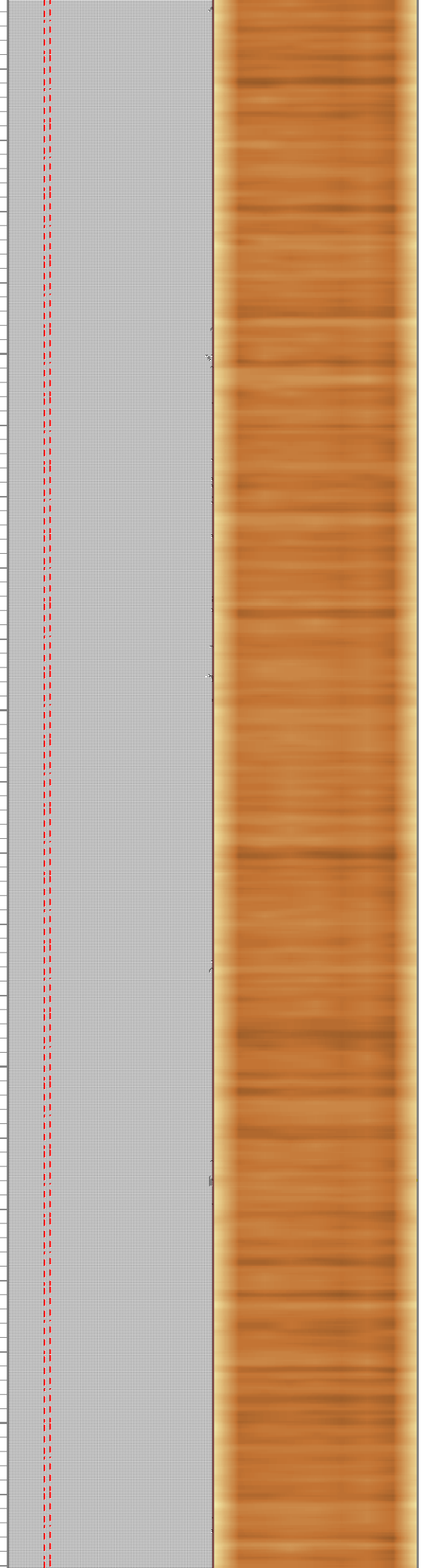
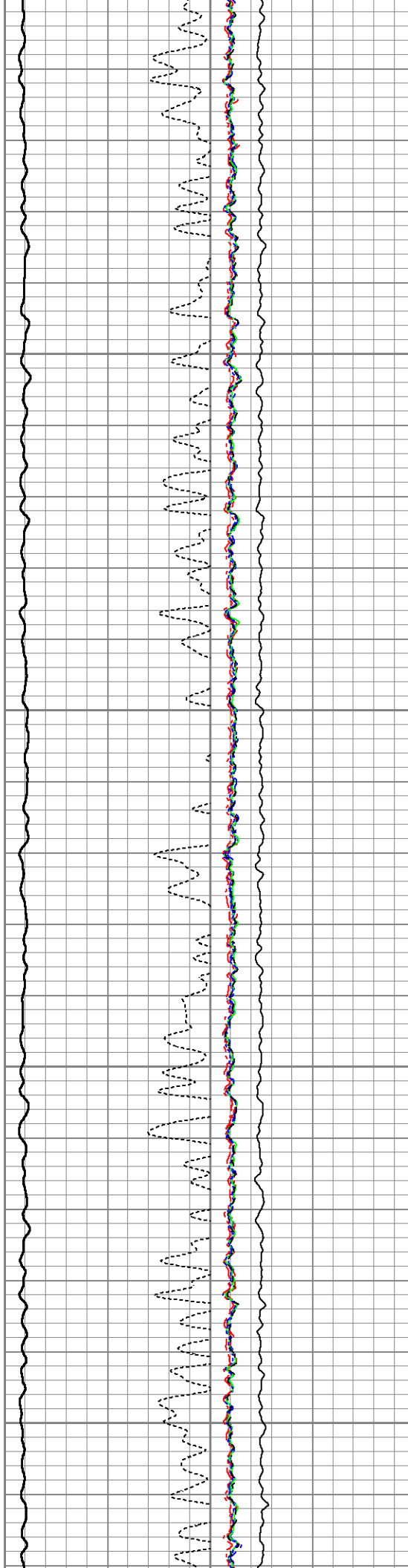
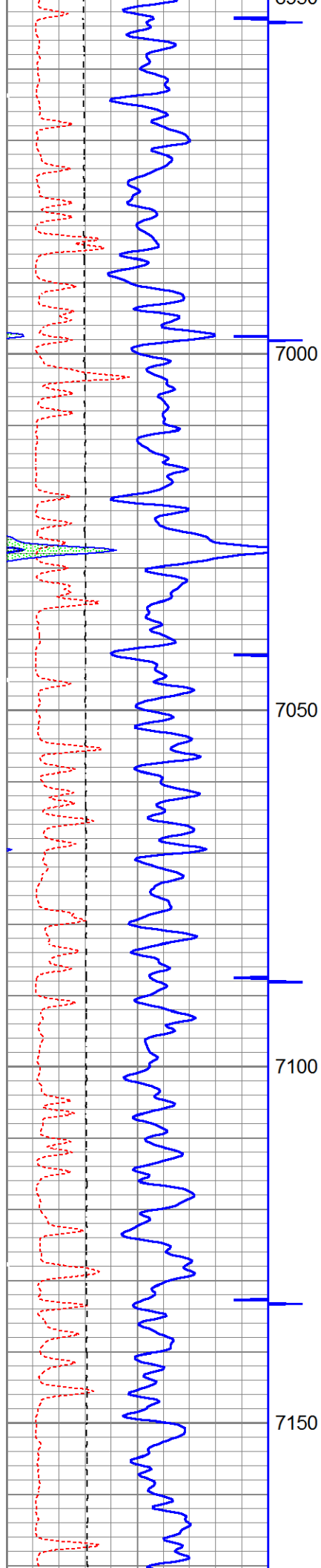


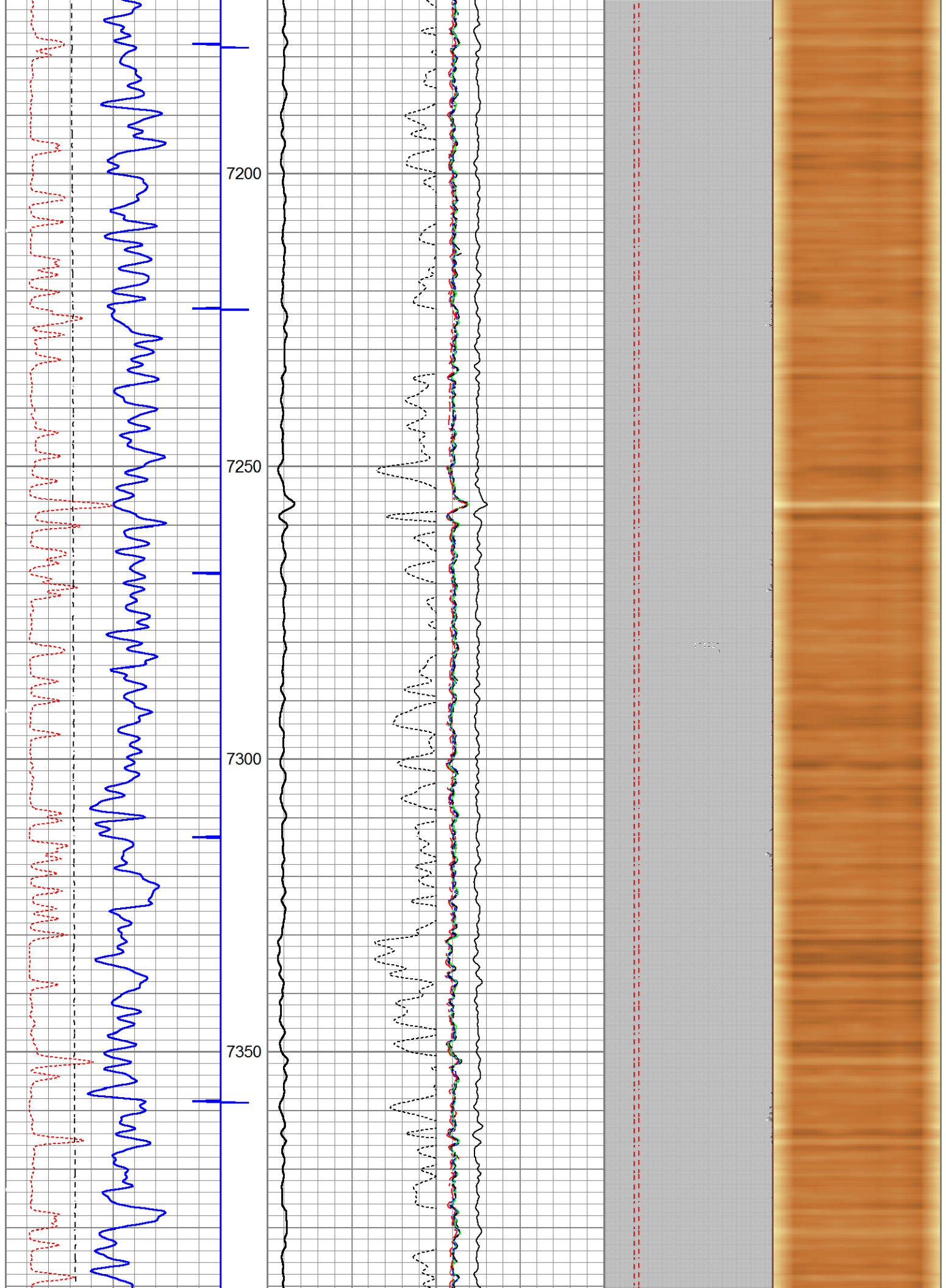


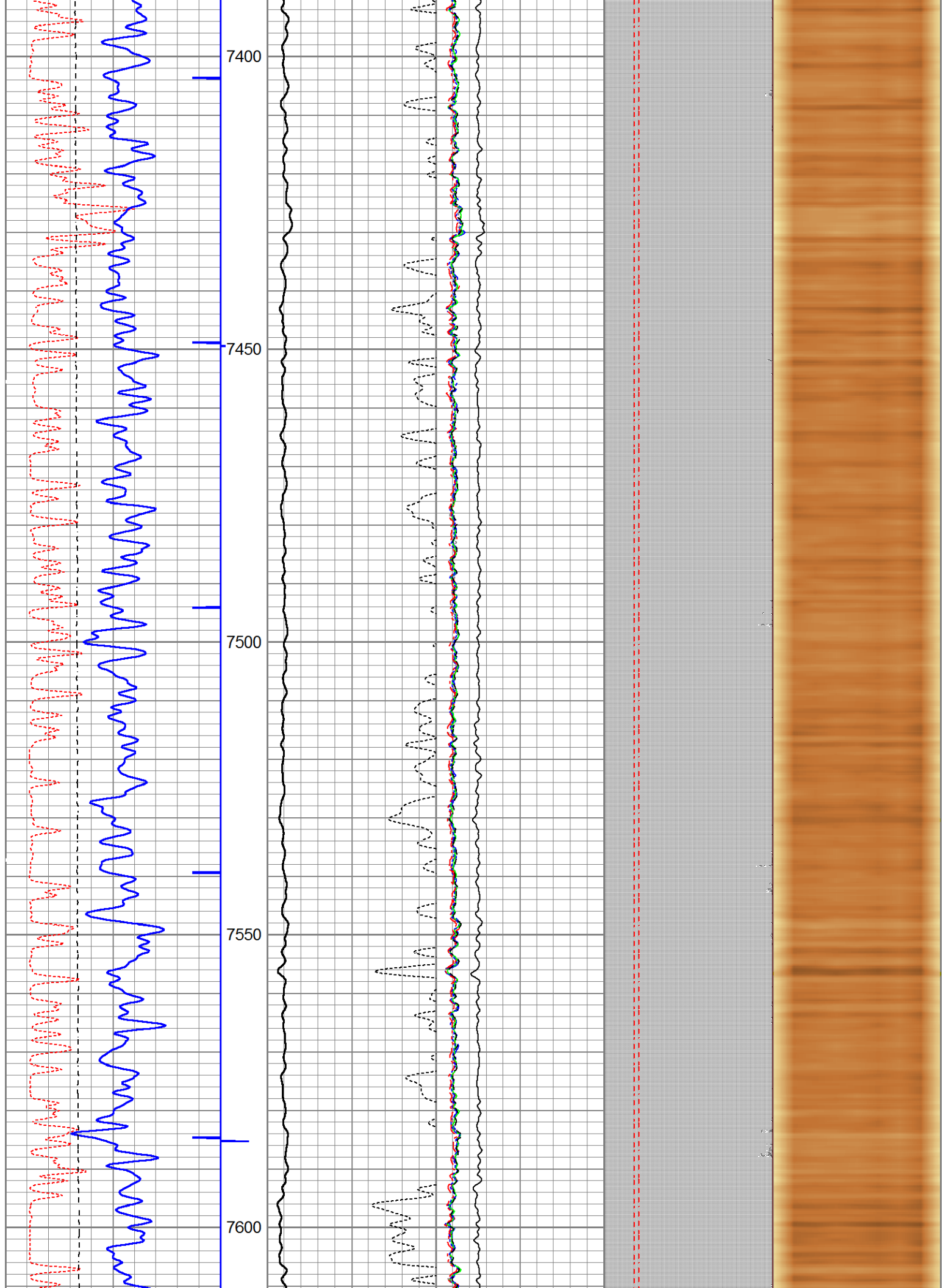




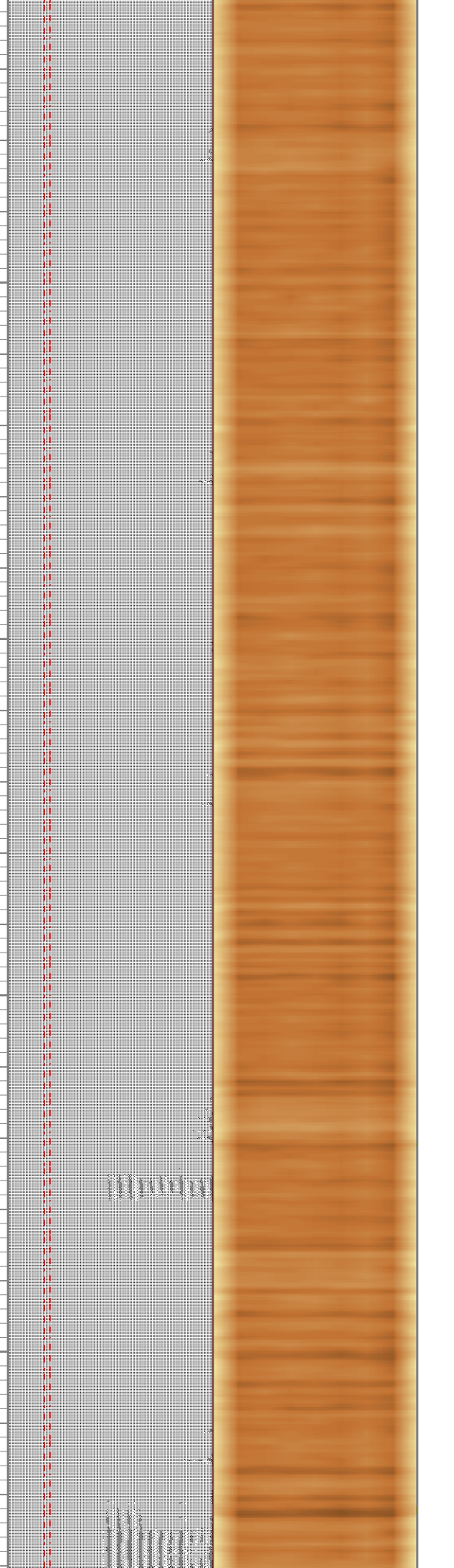
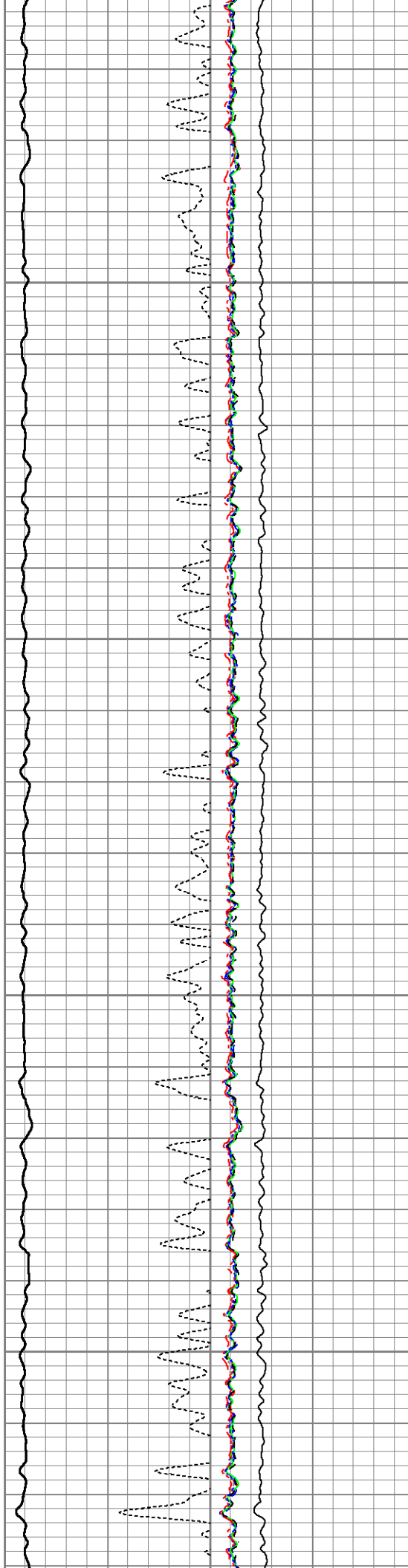
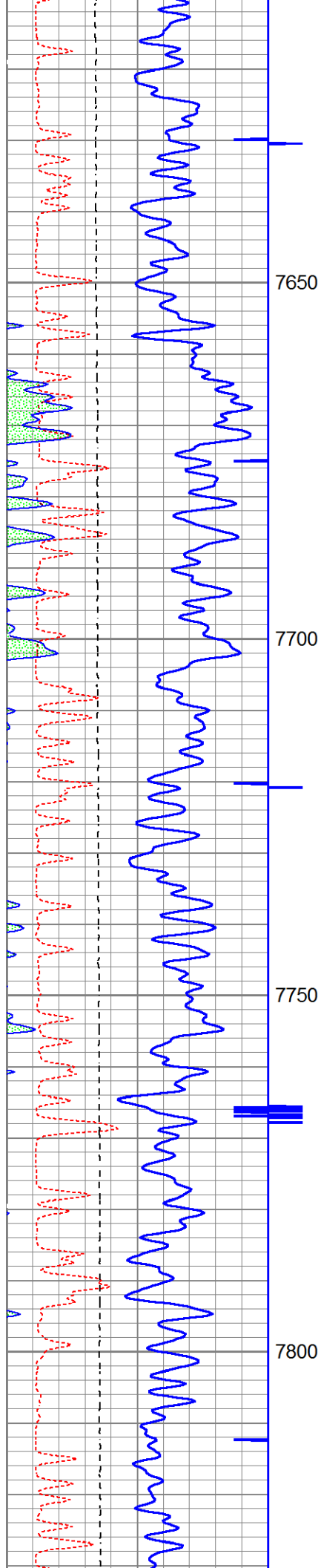


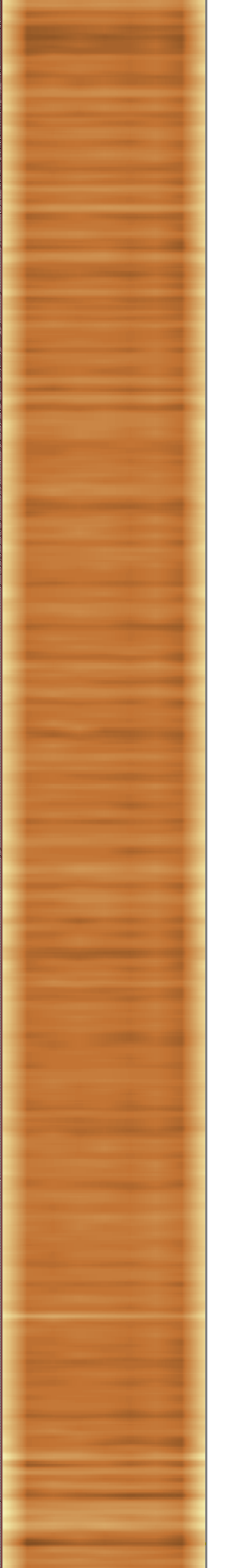
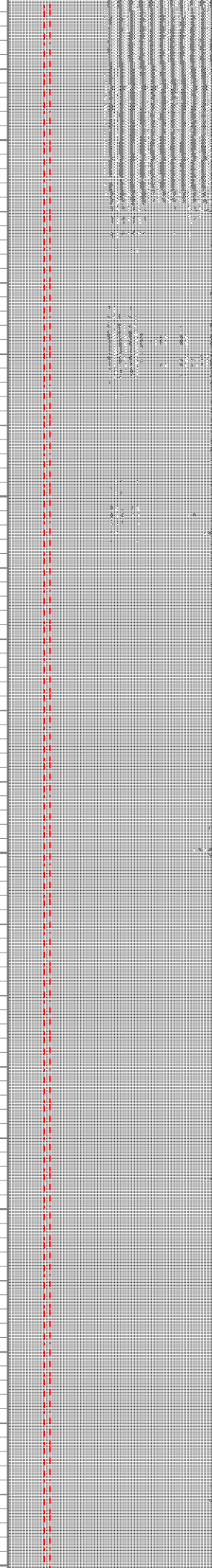
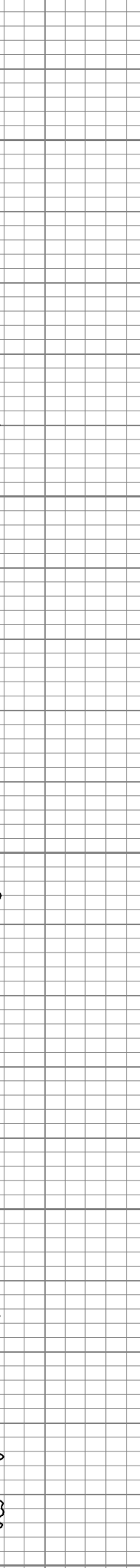
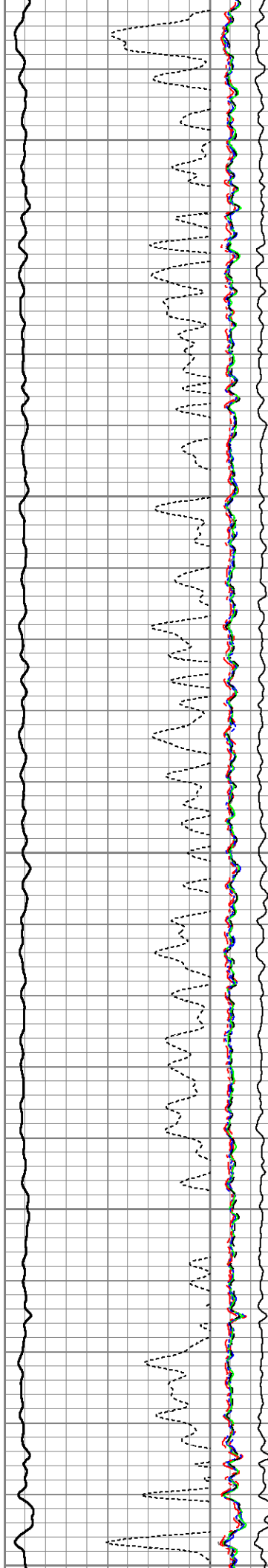
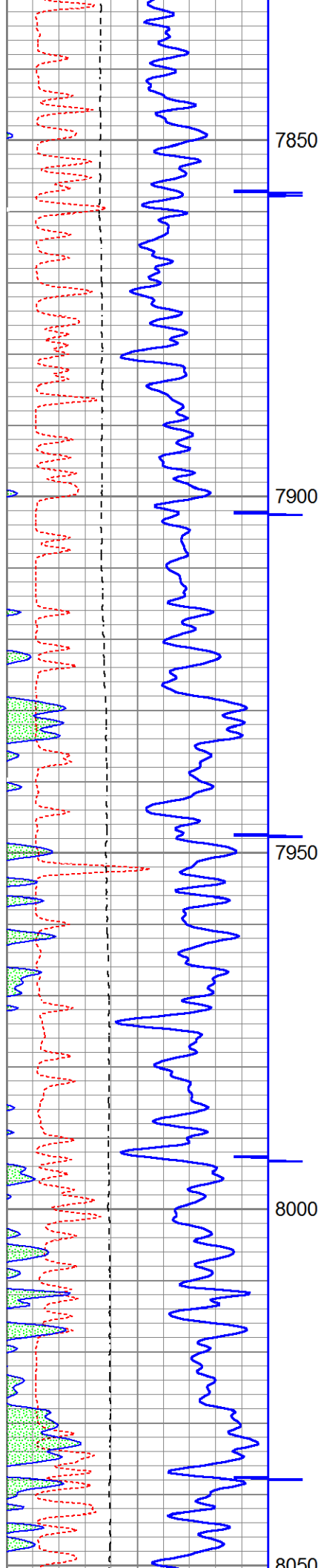


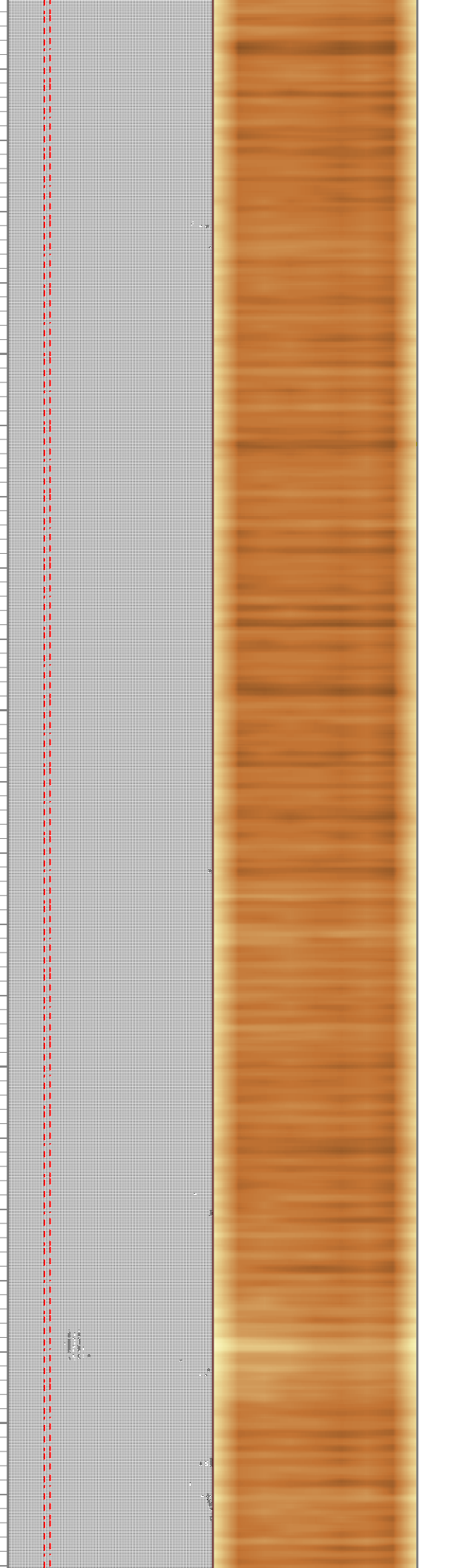
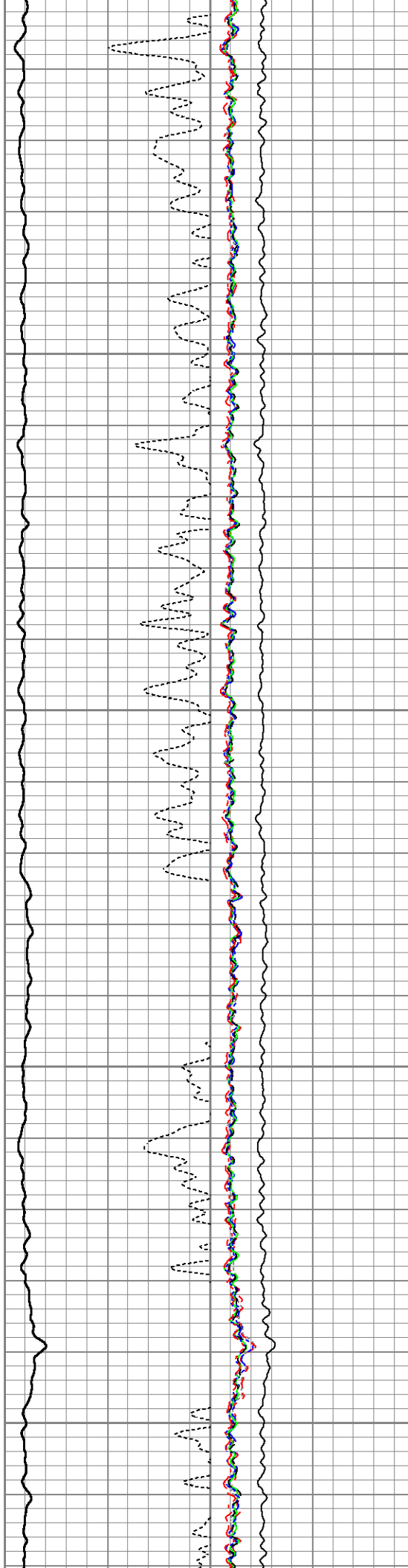
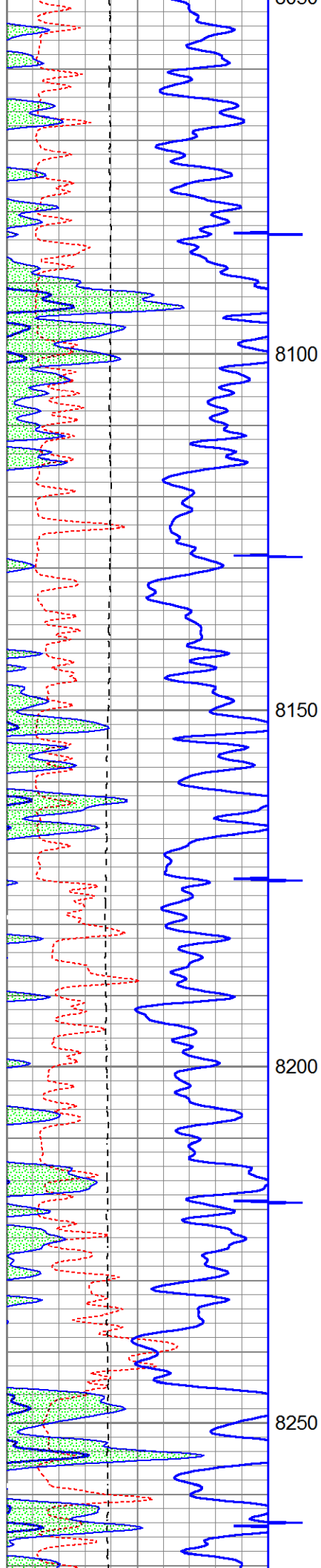




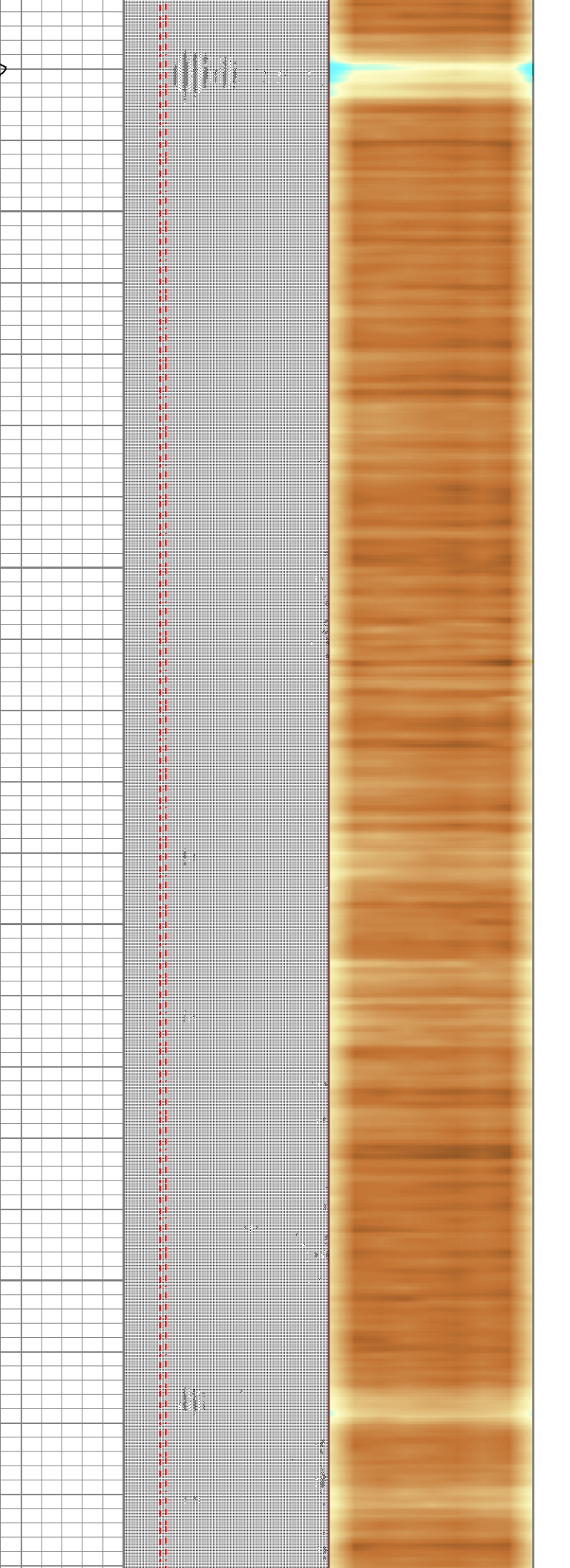
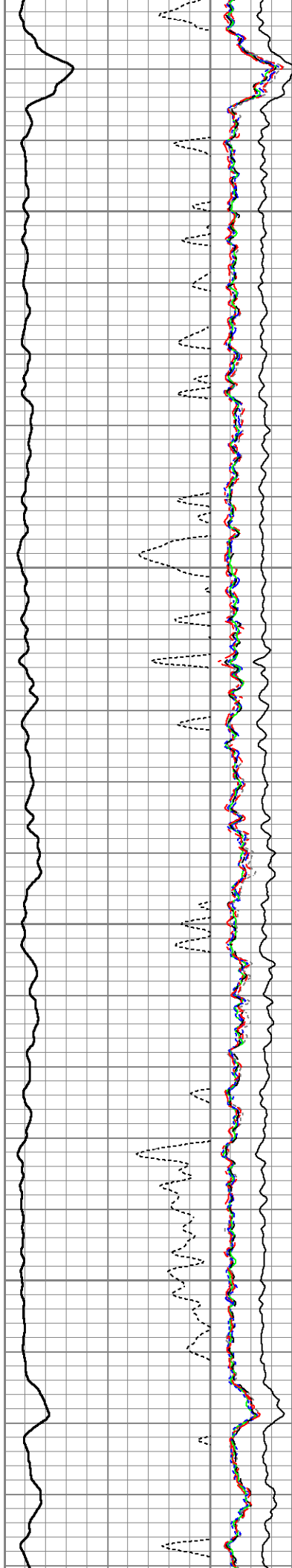
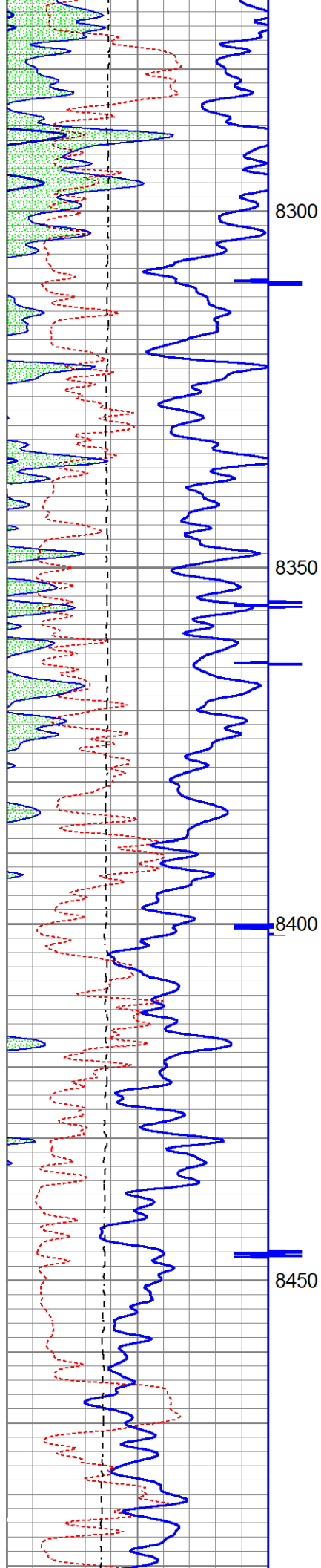


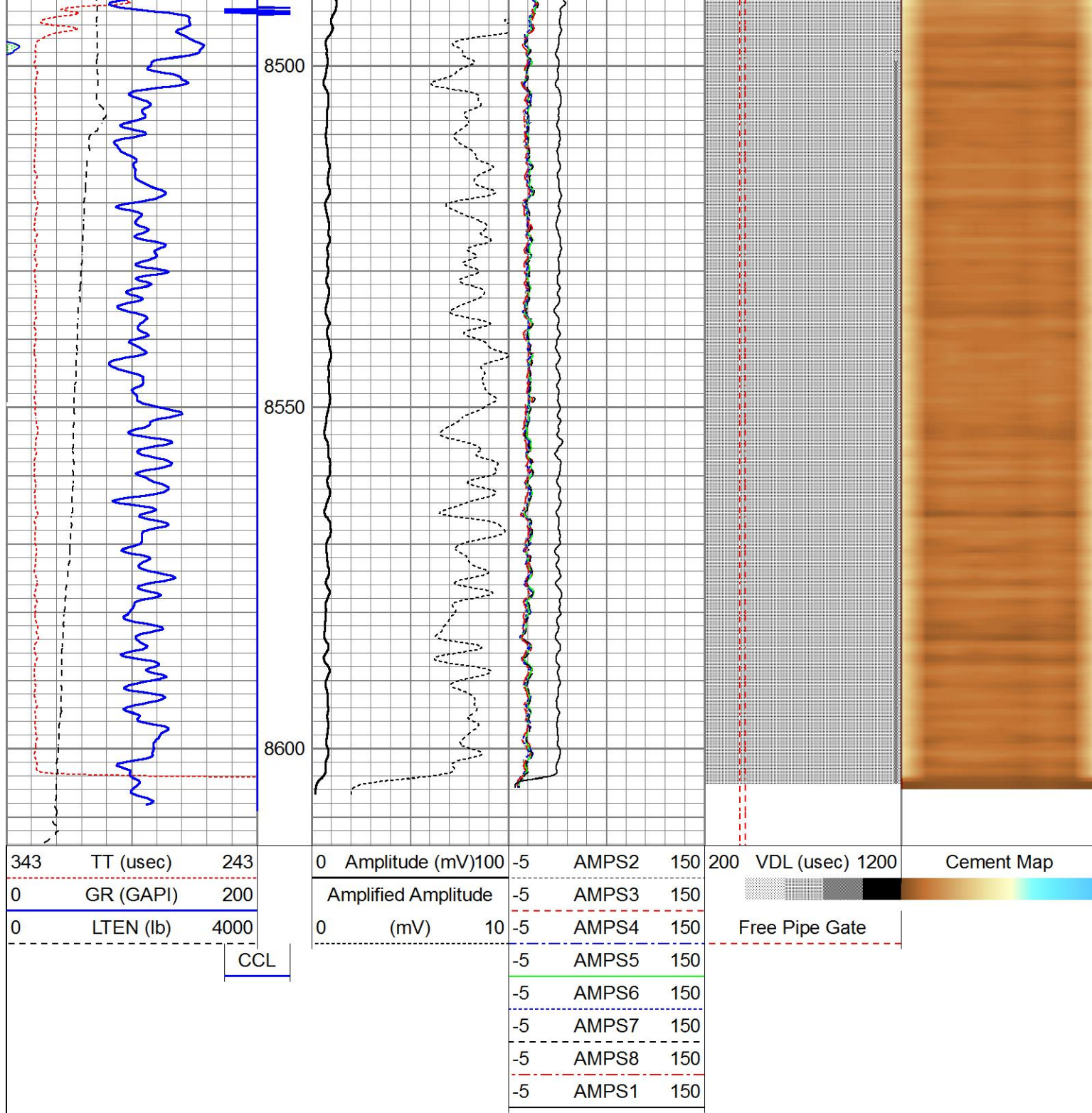












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 Field **Wildcat**  
 County **Arapahoe** State **Colorado**



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