



Radial Cement Bond
Gamma Ray CCL
Log

Company	Petroshare Corp	Country	
Well	SHOOK 3-10-1NCH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO		
Company	Petroshare Corp		
Well	SHOOK 3-10-1NCH		
Field	WATTENBERG		
County	ADAMS		
State	COLORADO	Country	
Location:	API # : 05-001-09975		Other Services
	NWSE SEC.03-T1S-R67W 2058' FSL & 2229' FEL		N/A
SEC	TWP	RGE	
Permanent Datum	G.L.	Elevation	5098'
Log Measured From	K.B.		
Drilling Measured From	K.B.		
		Elevation	K.B. 5111' D.F. N/A G.L. 5098'
Date	MARCH 4, 2018		
Run Number	ONE		
Depth Driller	12838'		
Depth Logger	8241'		
Bottom Logged Interval	8229		
Top Log Interval	48'		
Open Hole Size	N/A		
Type Fluid	H2O		
Density / Viscosity	8.4		
Max. Recorded Temp.	N/A		
Estimated Cement Top	1034'		
Time Well Ready	1:00		
Time Logger on Bottom	2:32		
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 marker joint
Marker joint at 7406' - 7429'

THANK YOU FOR USING C&J CASEDHOLE SOLUTIONS

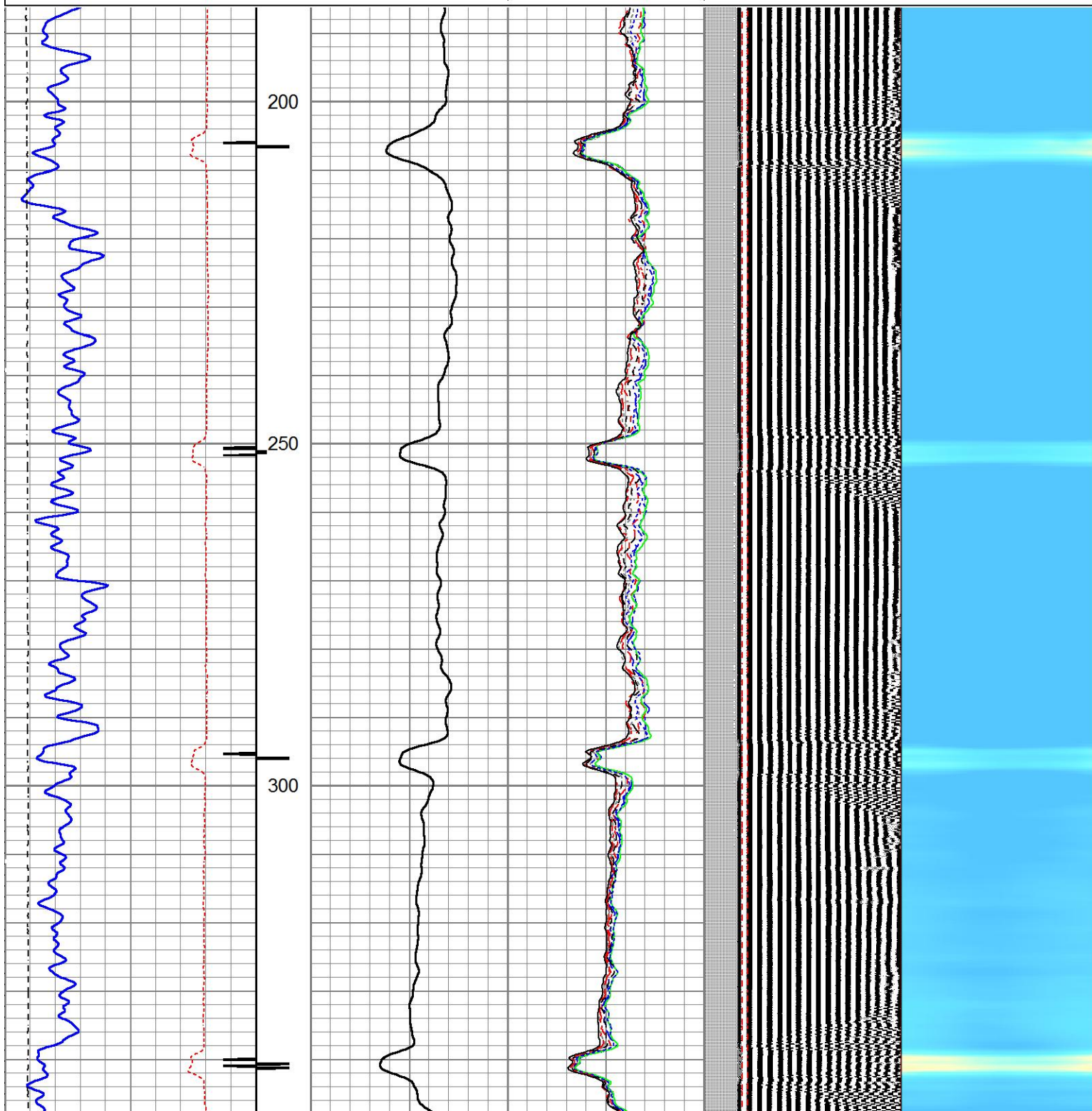
M. NOWICKI, B. SISSON, S. BARNETT

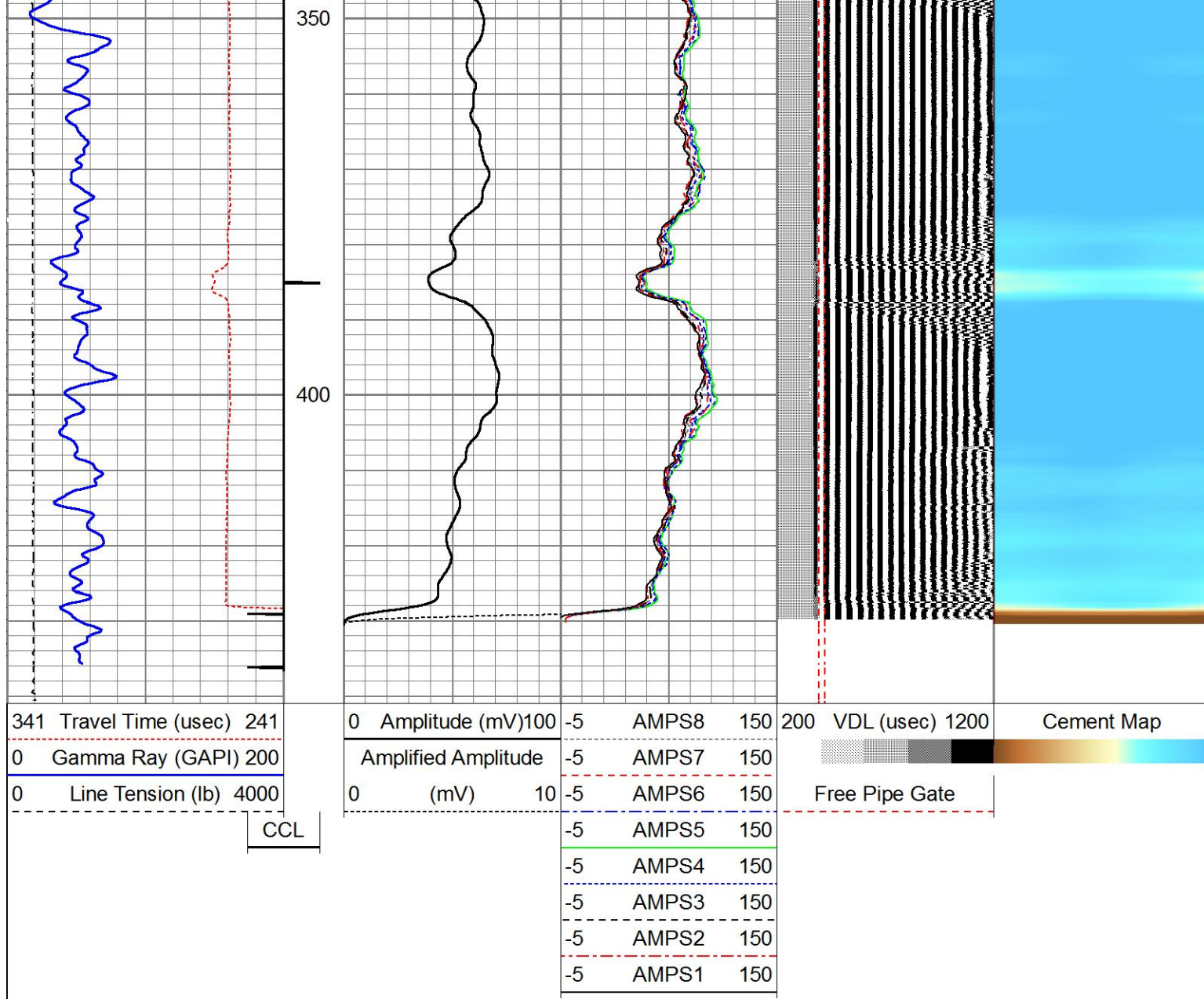


Free Pipe Pass (0) PSI

Database File	g:\petroshare corp shook pad\db\s\fs0209 ps shook 3-10-1nch cbl.db
Dataset Pathname	Shook3-10-1NCH/run1/pass6
Presentation Format	scbl5_5
Dataset Creation	Sun Mar 04 01:51:22 2018
Charted by	Depth in Feet scaled 1:240

341	Travel Time (usec)	241	0	Amplitude (mV)	100	-5	AMPS8	150	200	VDL (usec)	1200	Cement Map
0	Gamma Ray (GAPI)	200	Amplified Amplitude			-5	AMPS7	150				
0	Line Tension (lb)	4000	0	(mV)	10	-5	AMPS6	150	Free Pipe Gate			
						-5	AMPS5	150				
						-5	AMPS4	150				
						-5	AMPS3	150				
						-5	AMPS2	150				
						-5	AMPS1	150				





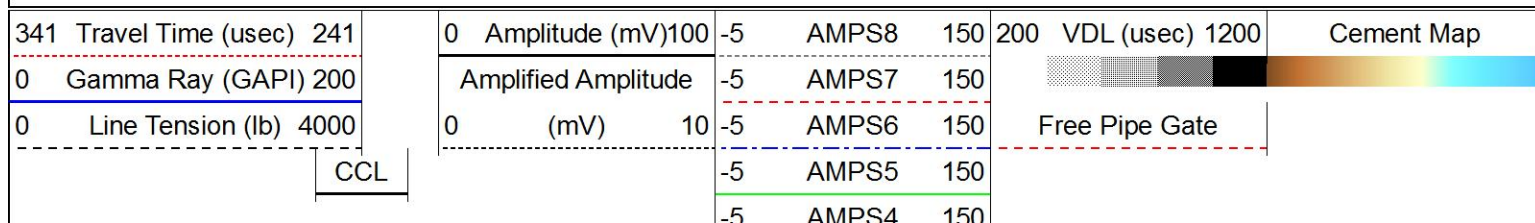
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Free Pipe Pass (0) PSI

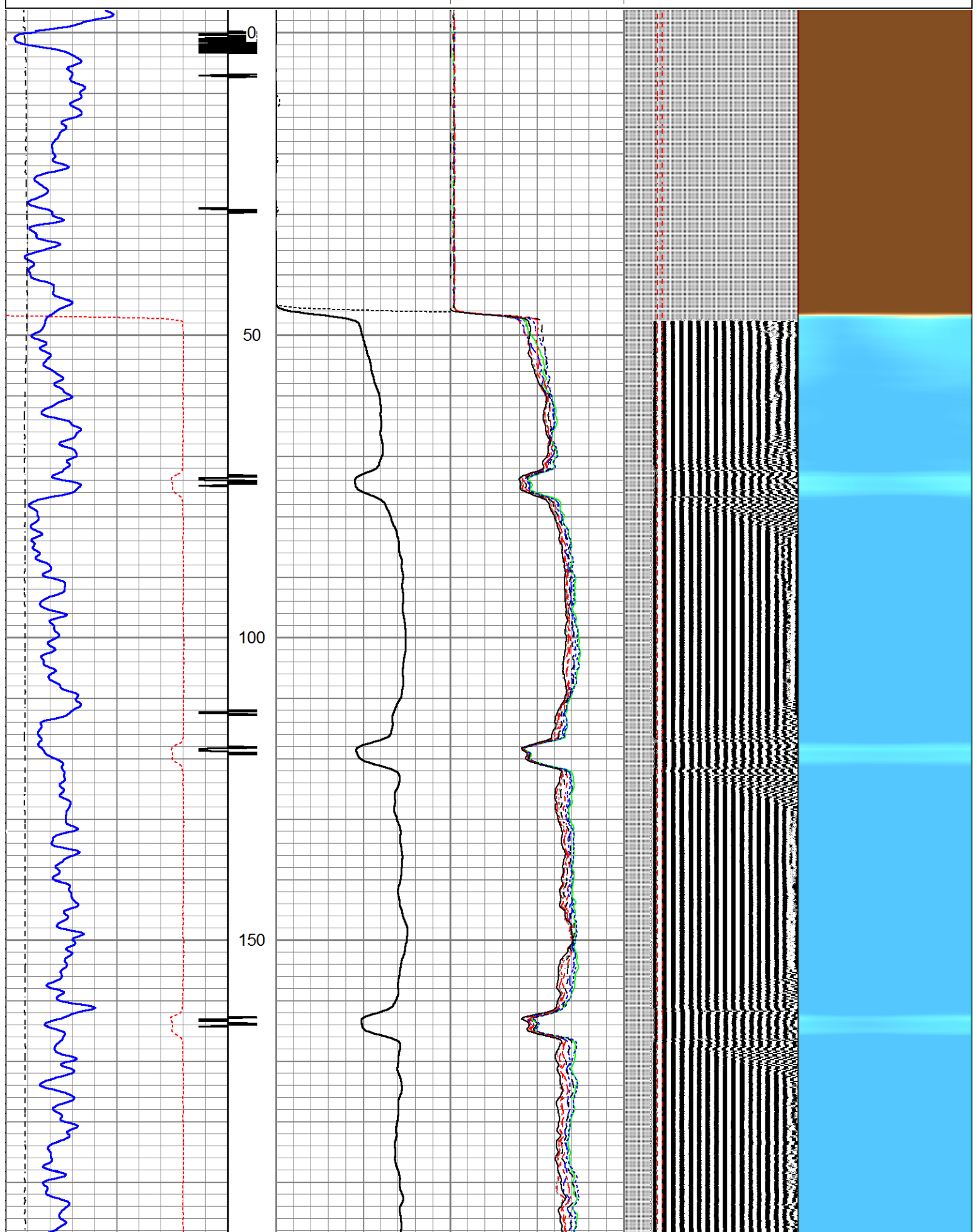
C&J ENERGY SERVICES

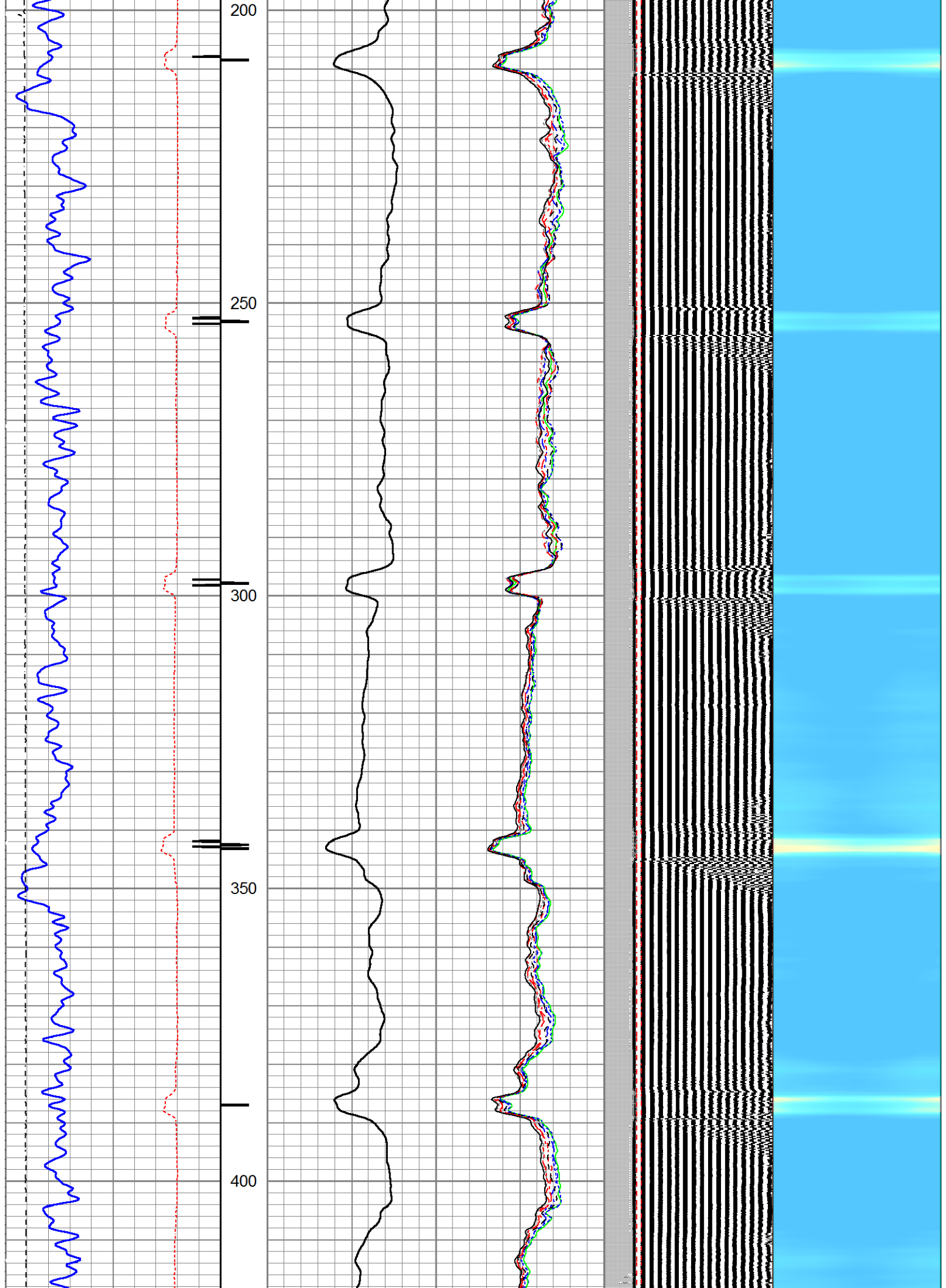
Main Pass (0) PSI

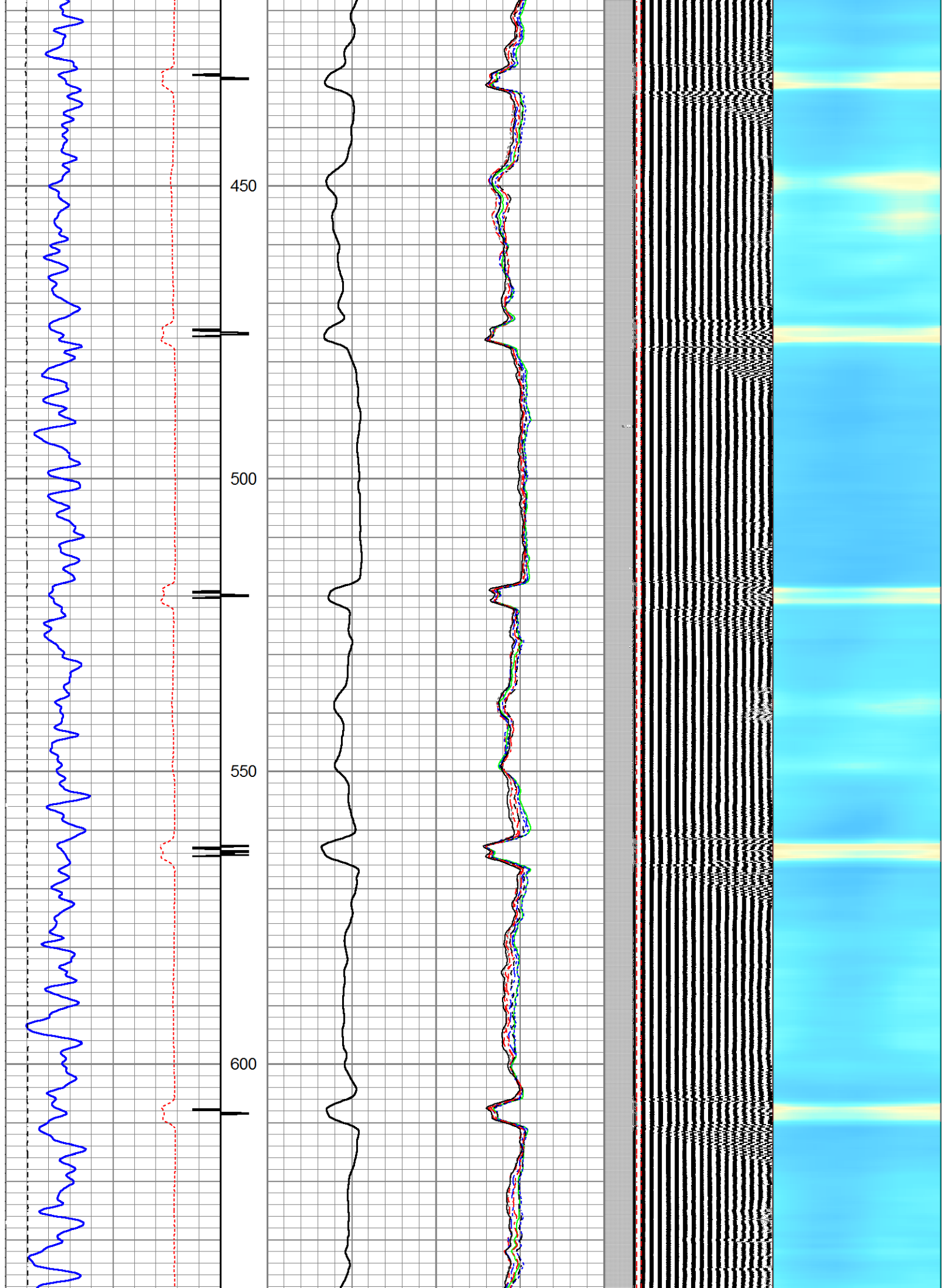
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 Presentation Format scbl5_5
 Dataset Creation Sun Mar 04 02:44:30 2018
 Charted by Depth in Feet scaled 1:240

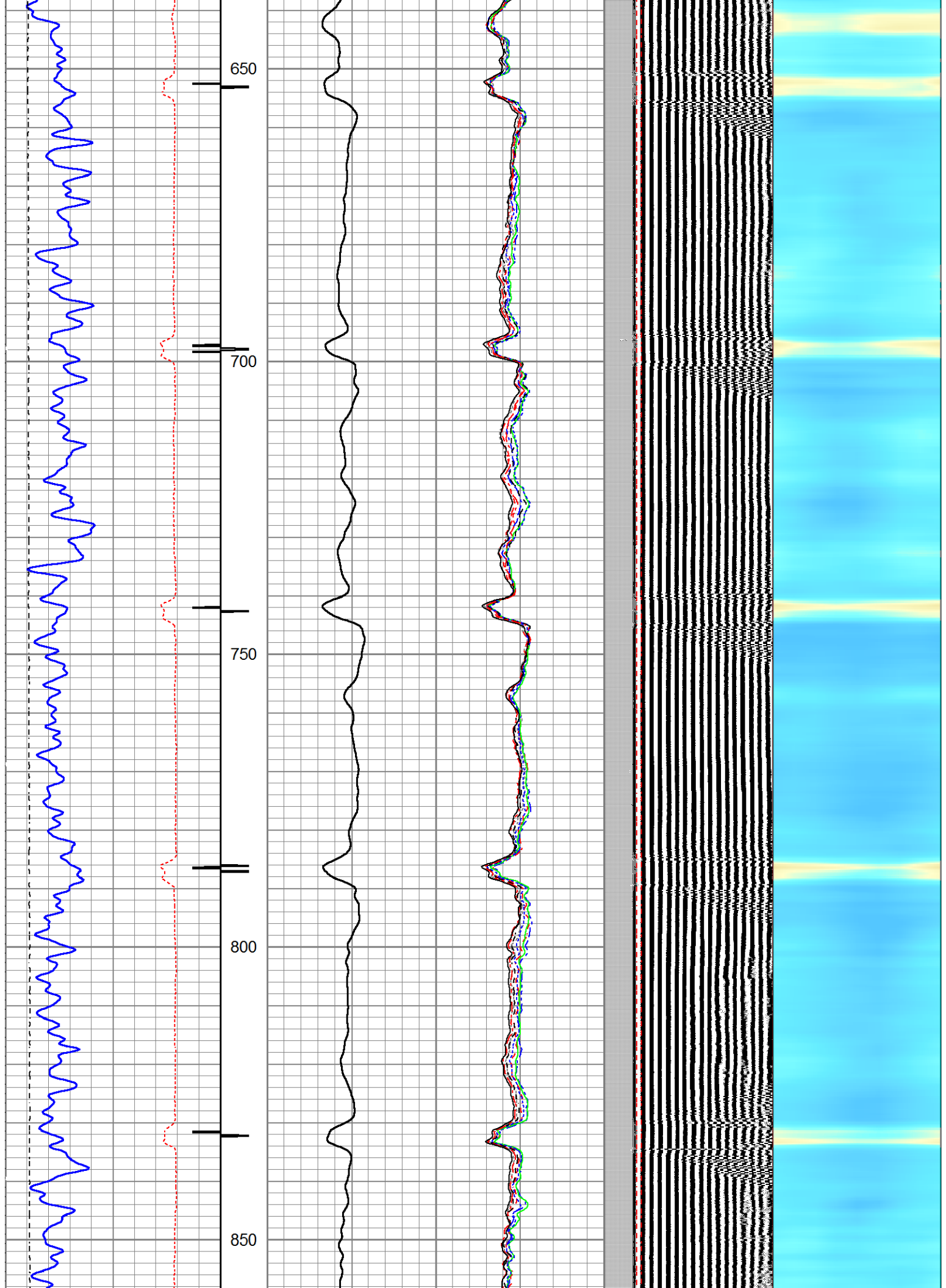


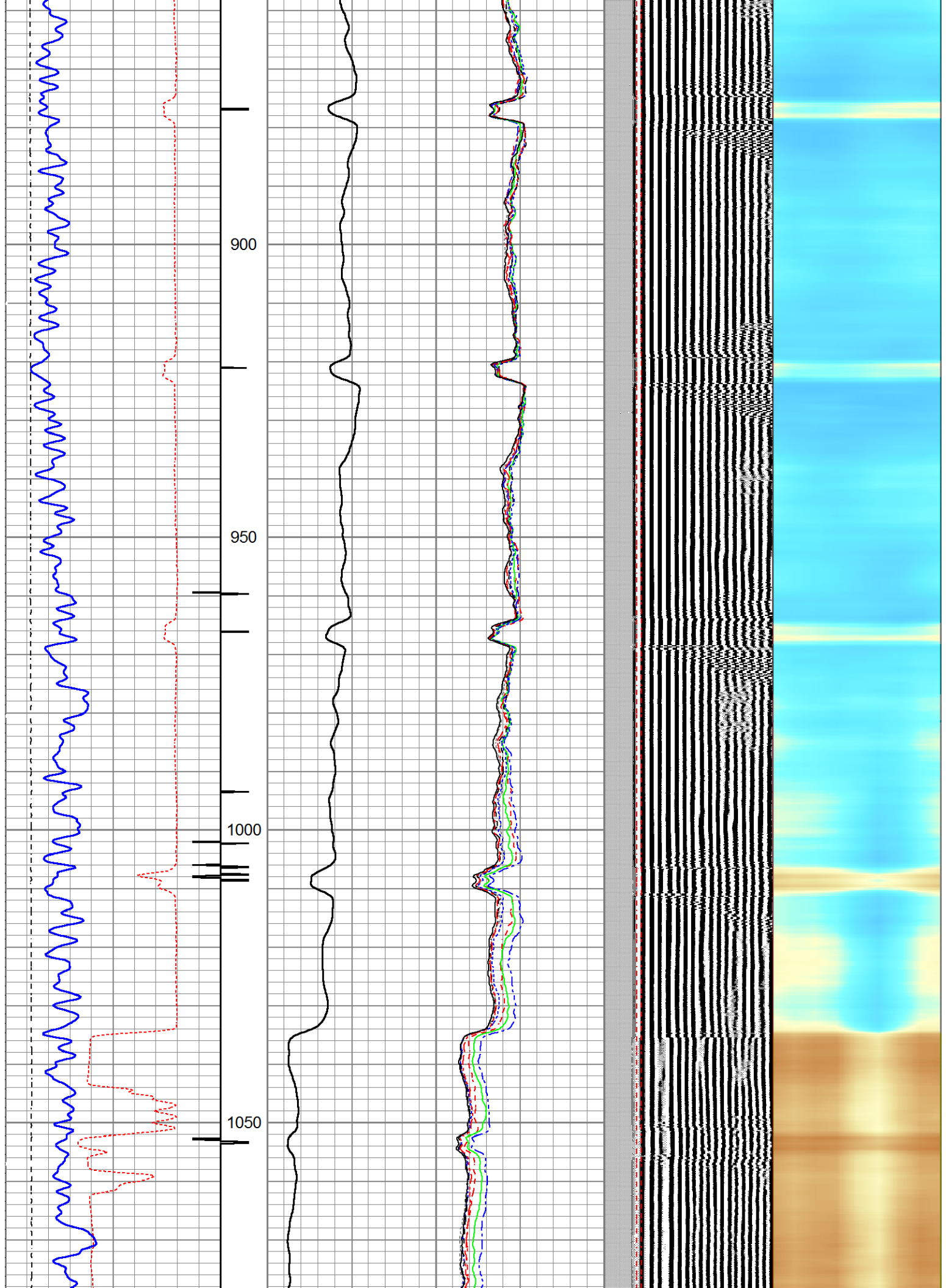
0	AMPS1	150
-5	AMPS3	150
-5	AMPS2	150
-5	AMPS1	150

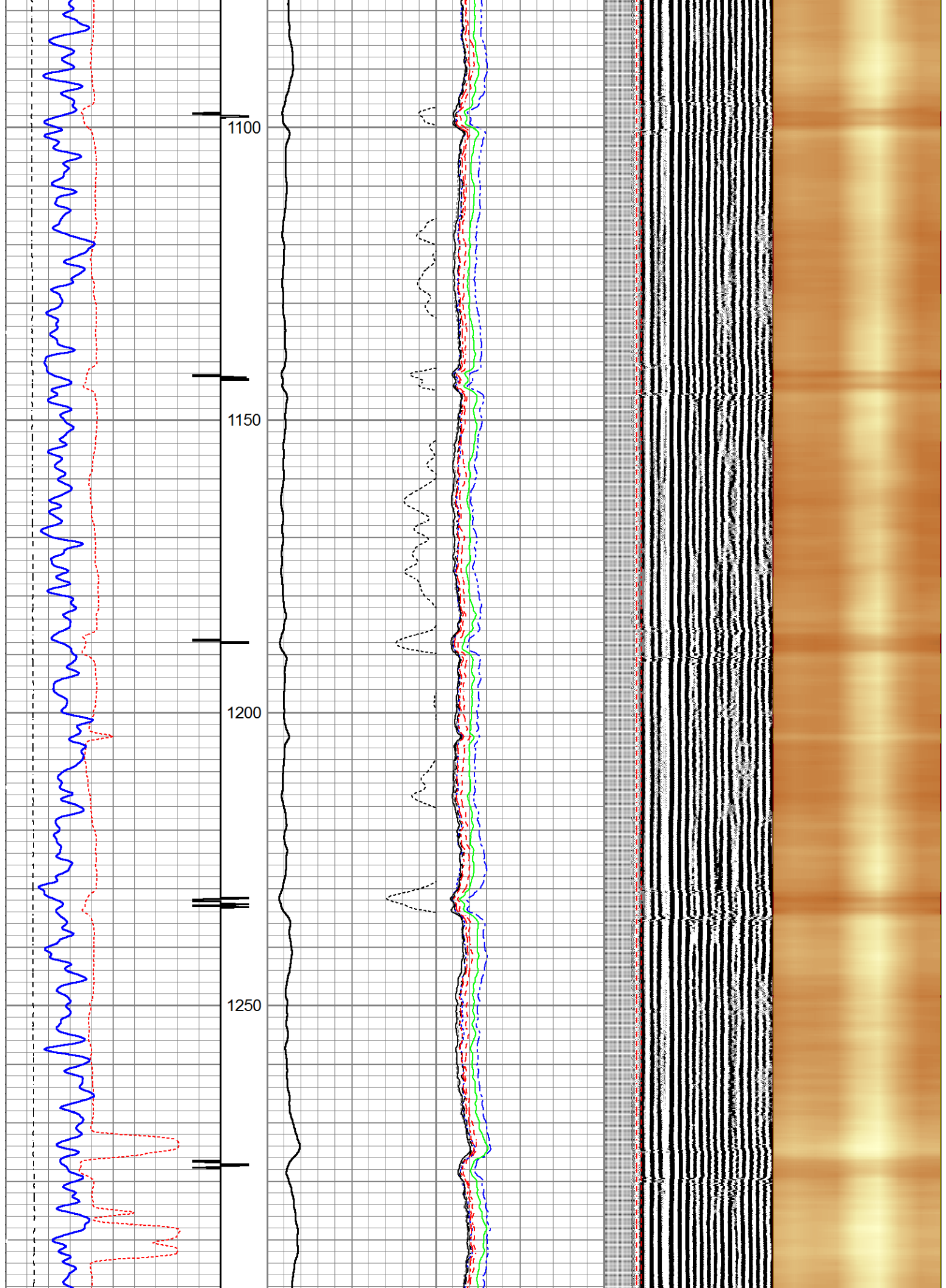


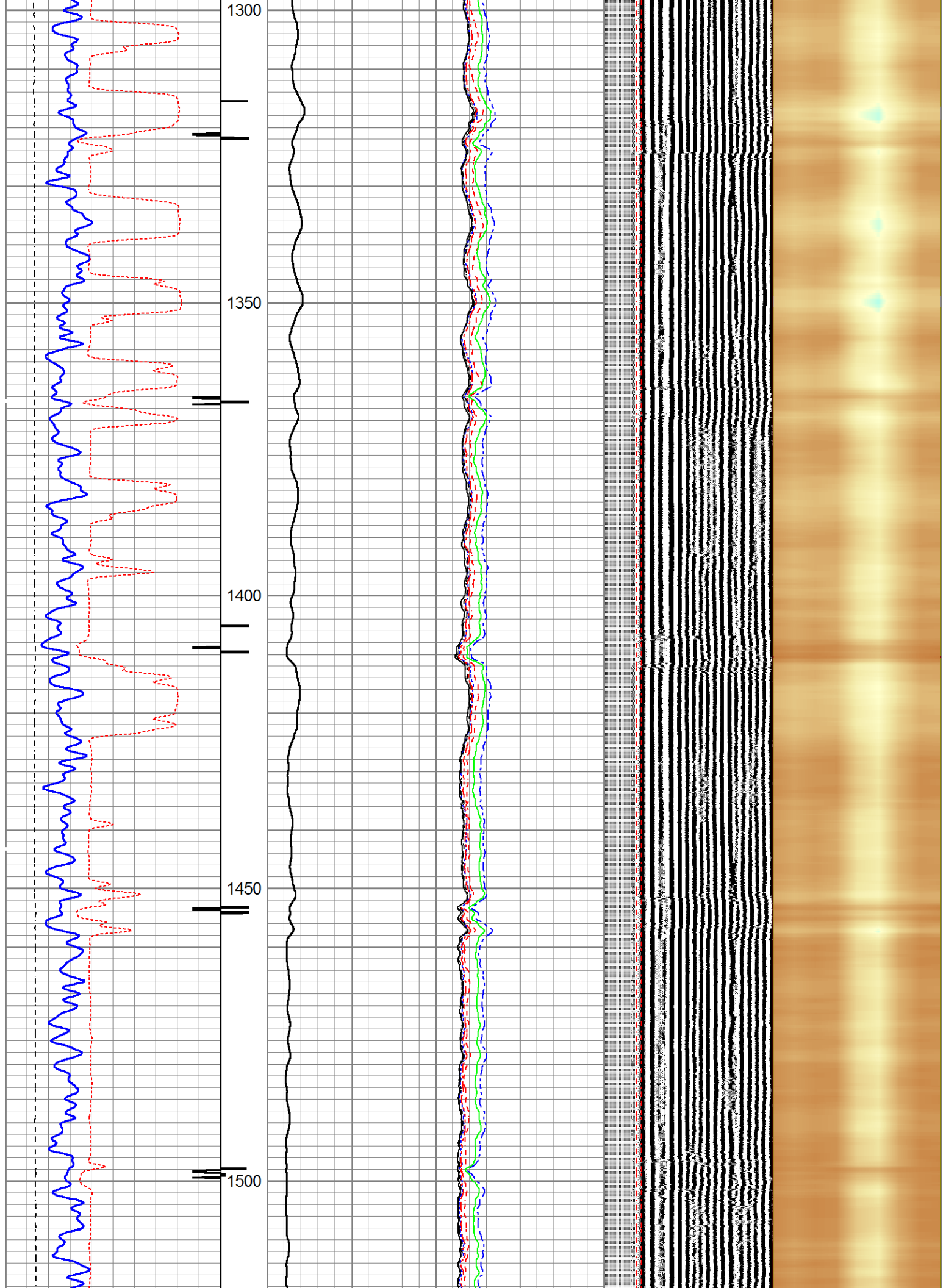


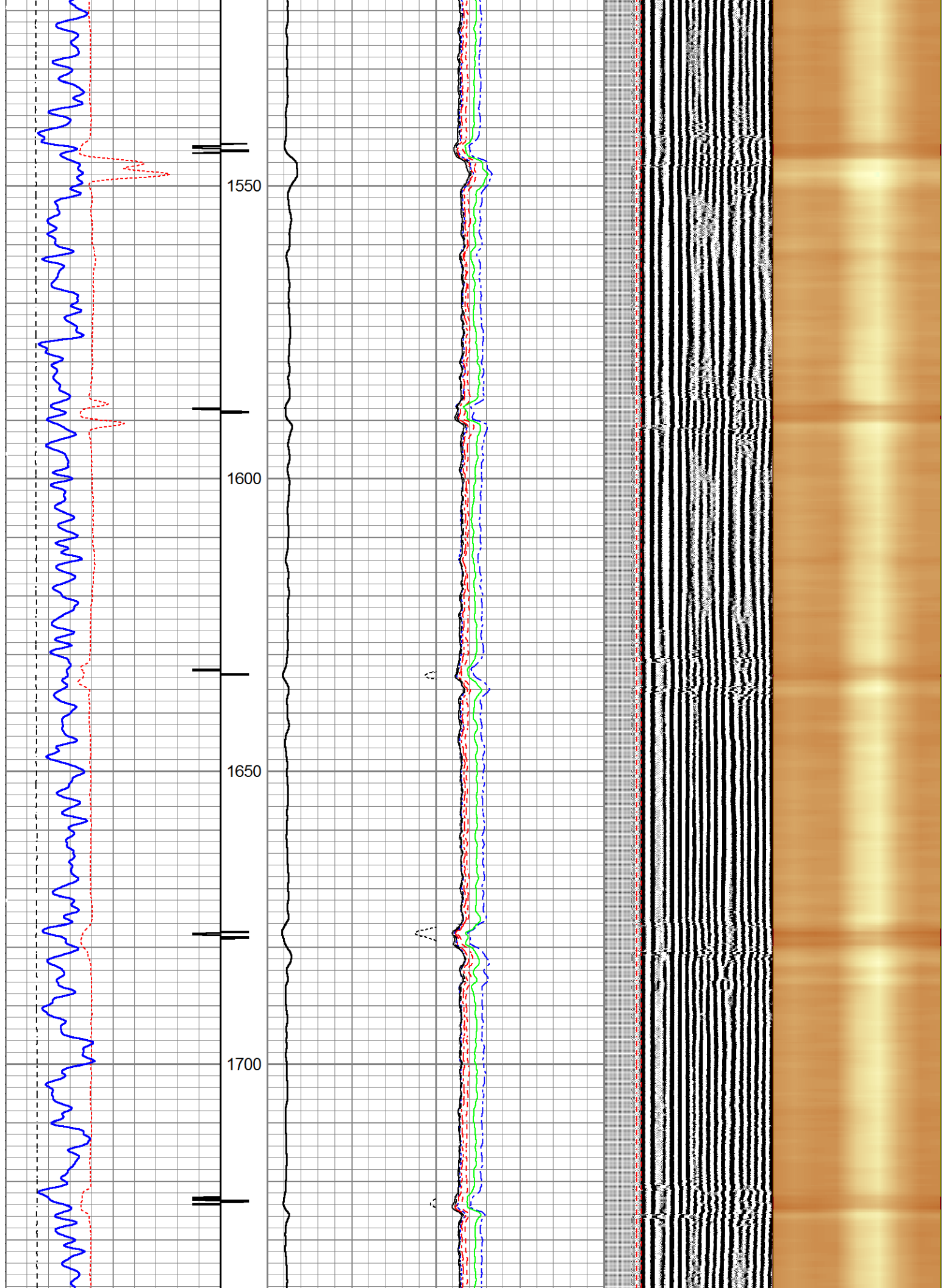


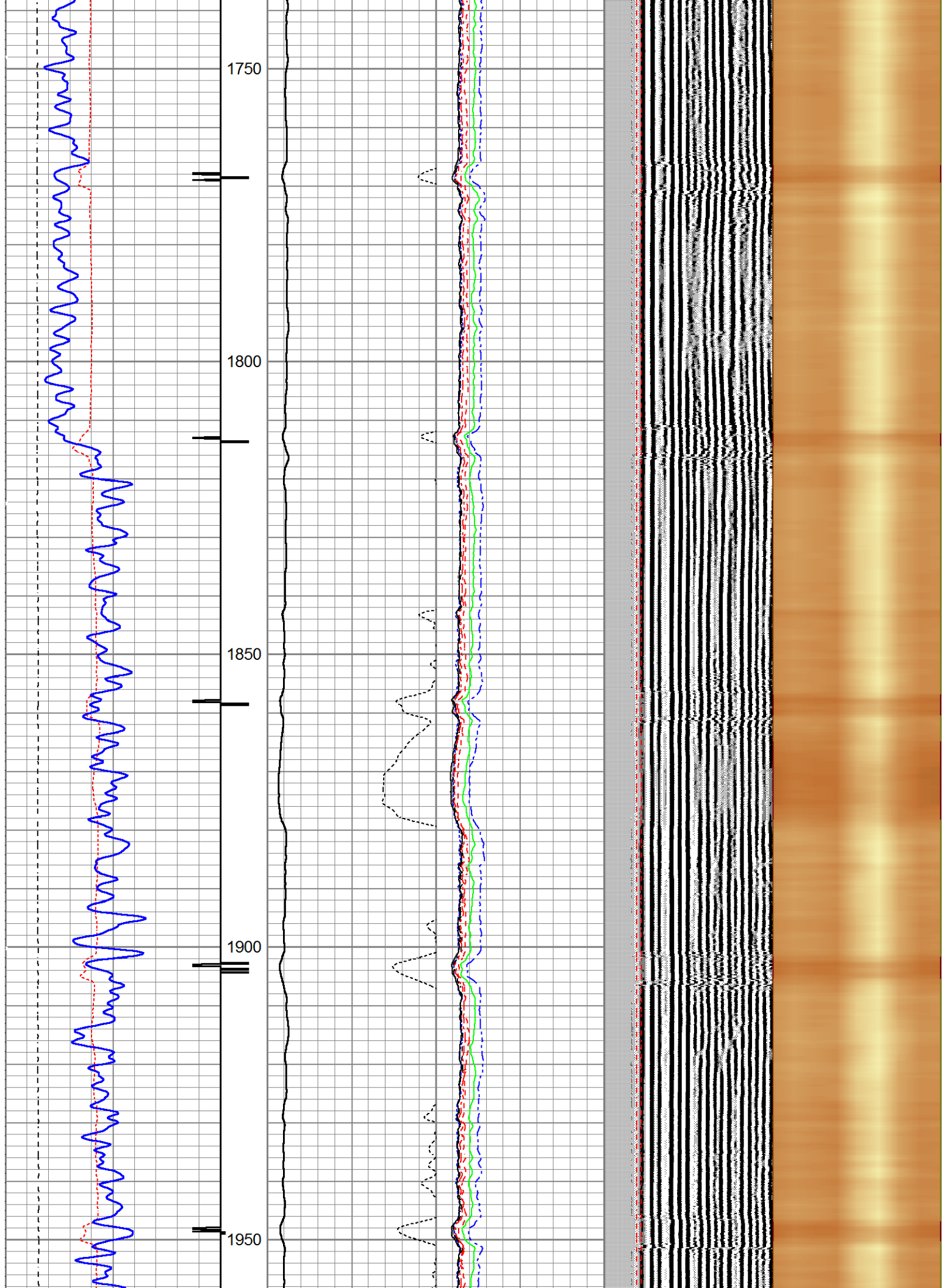


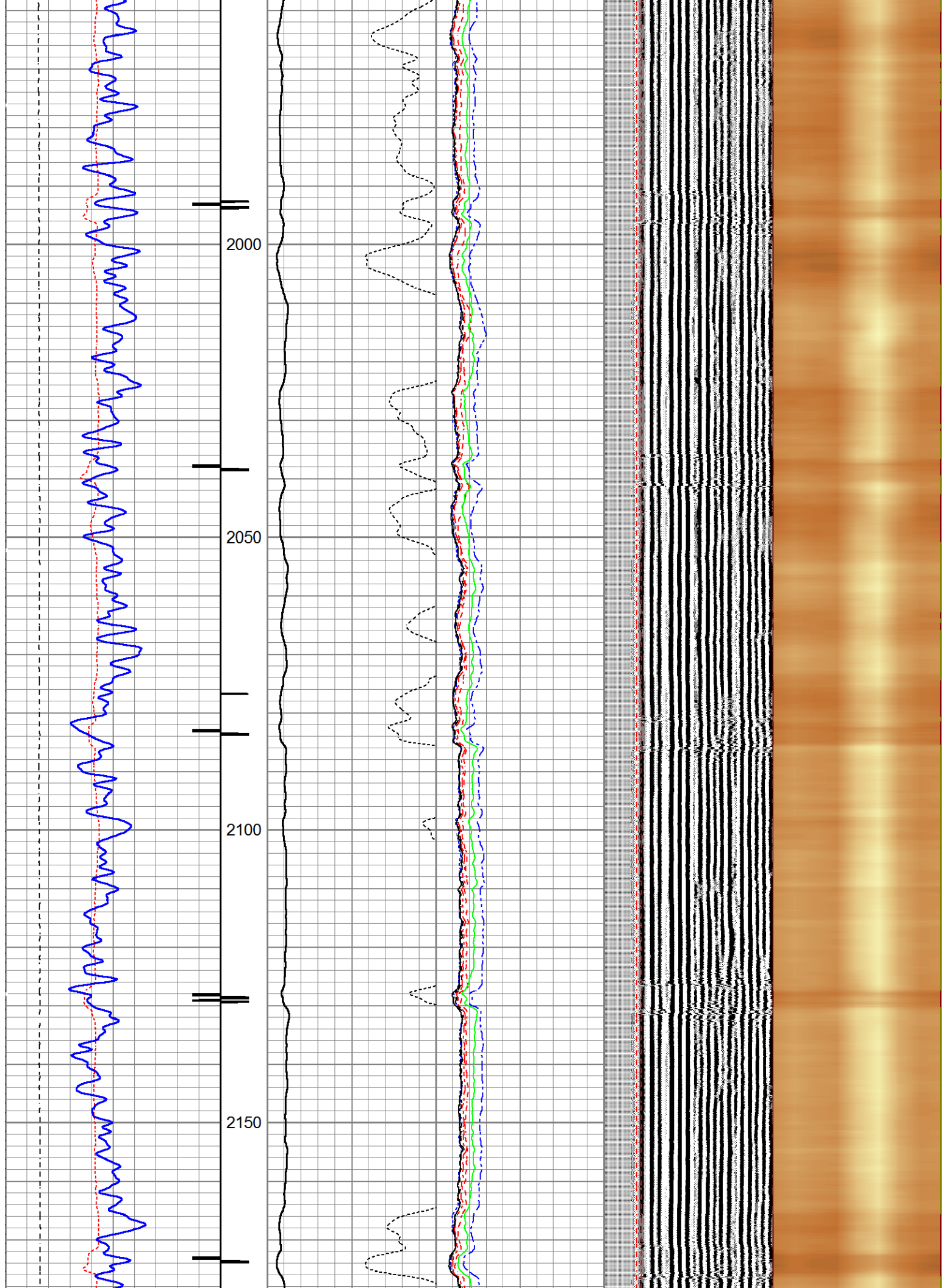


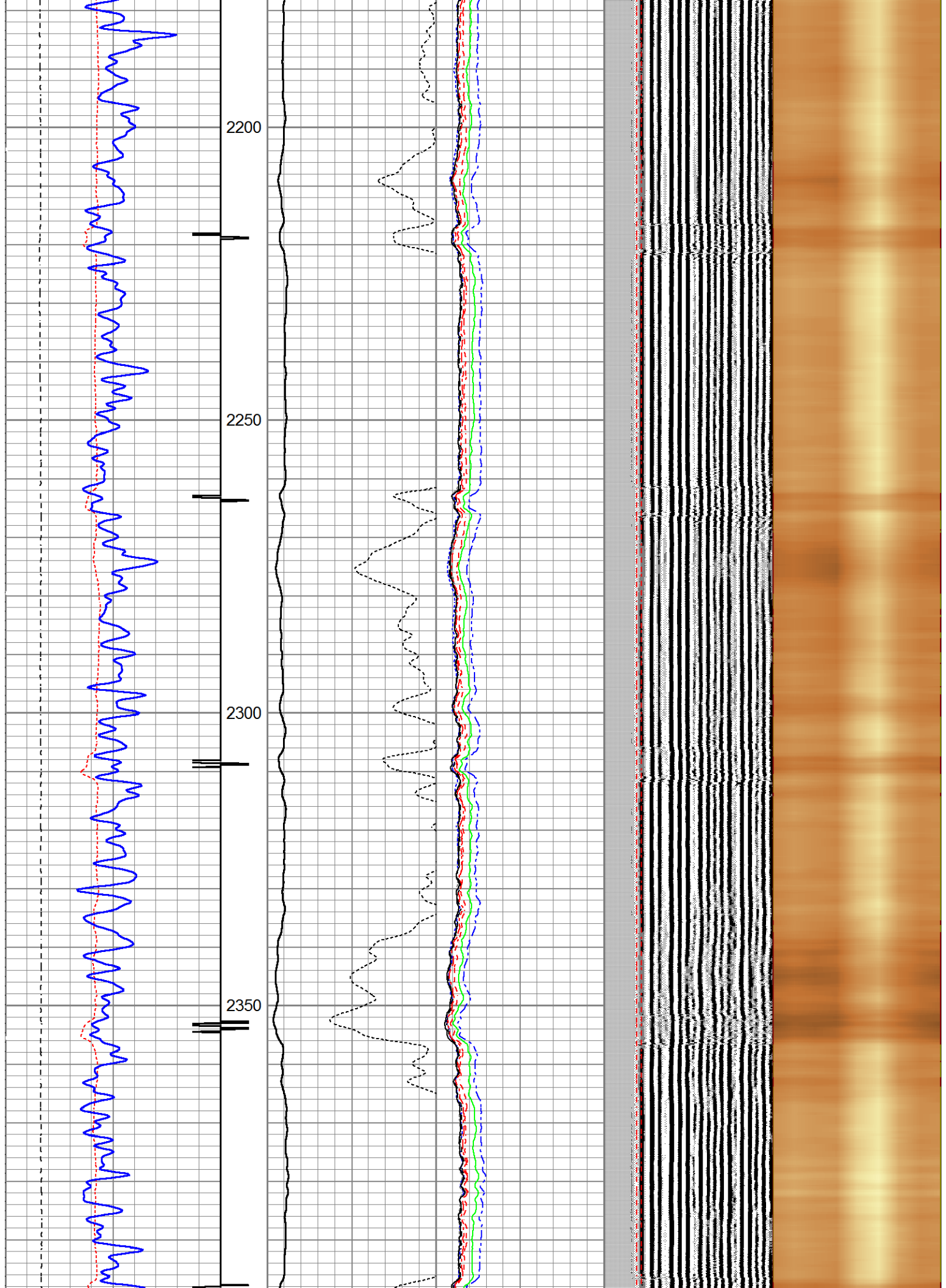


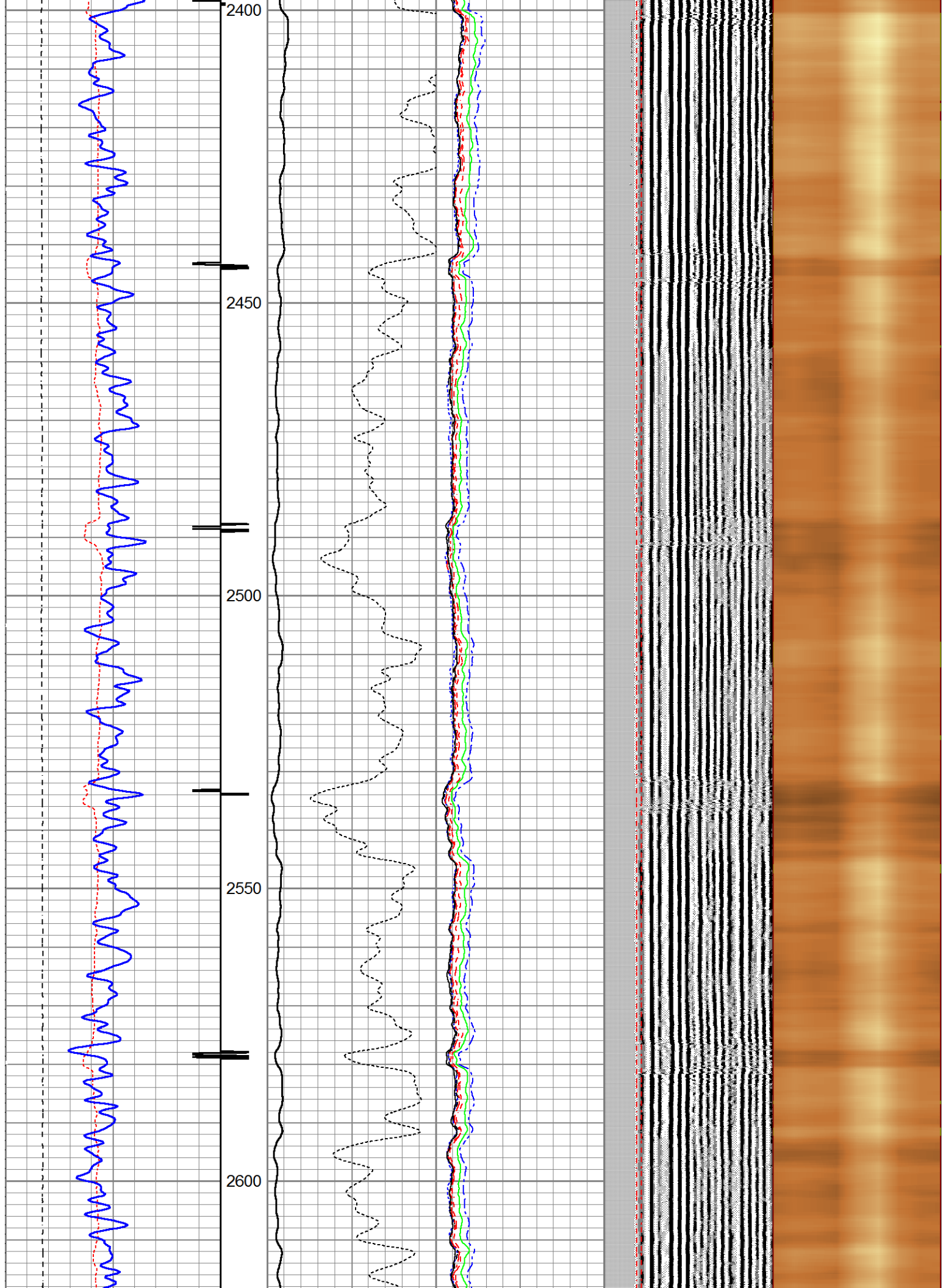


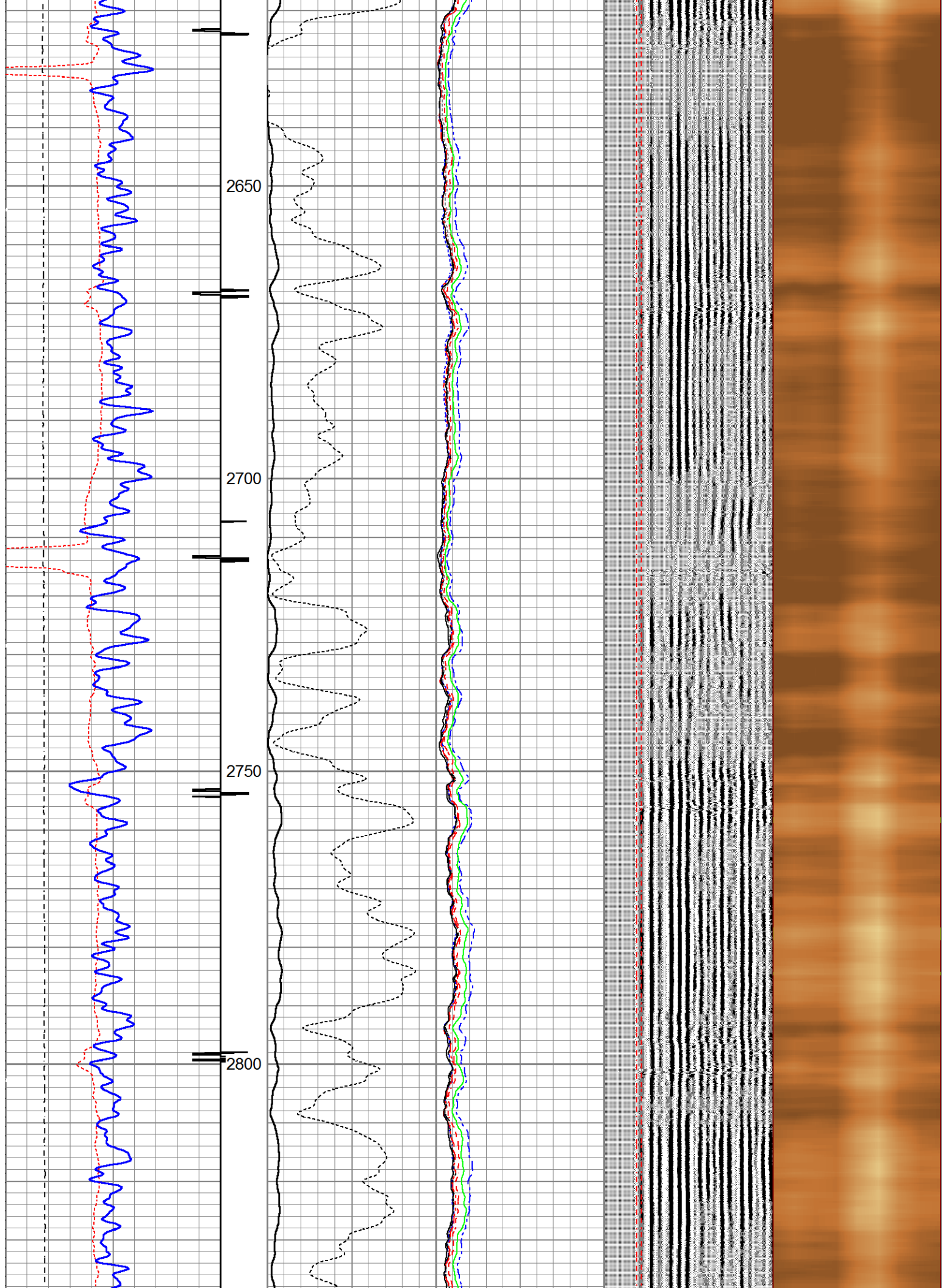


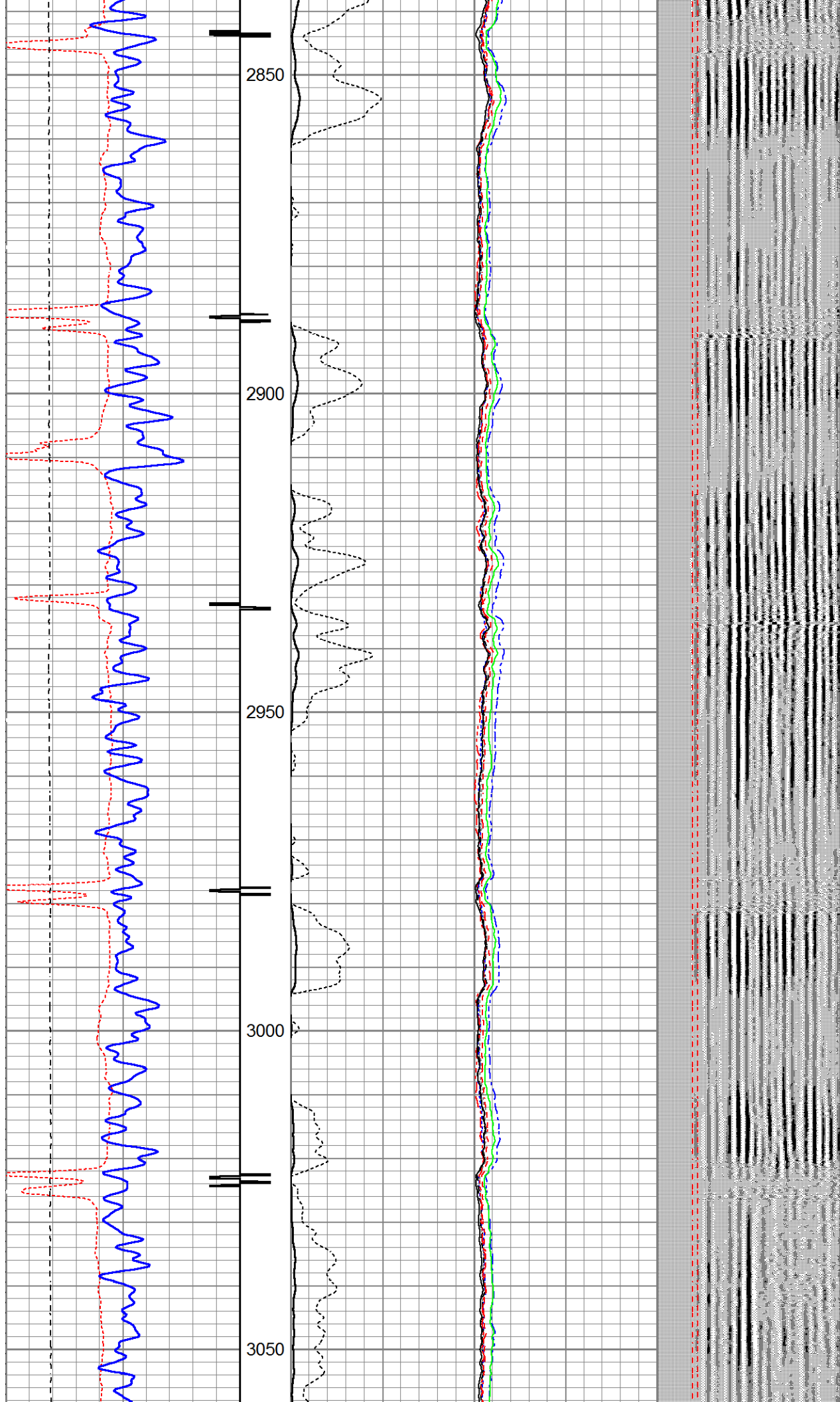


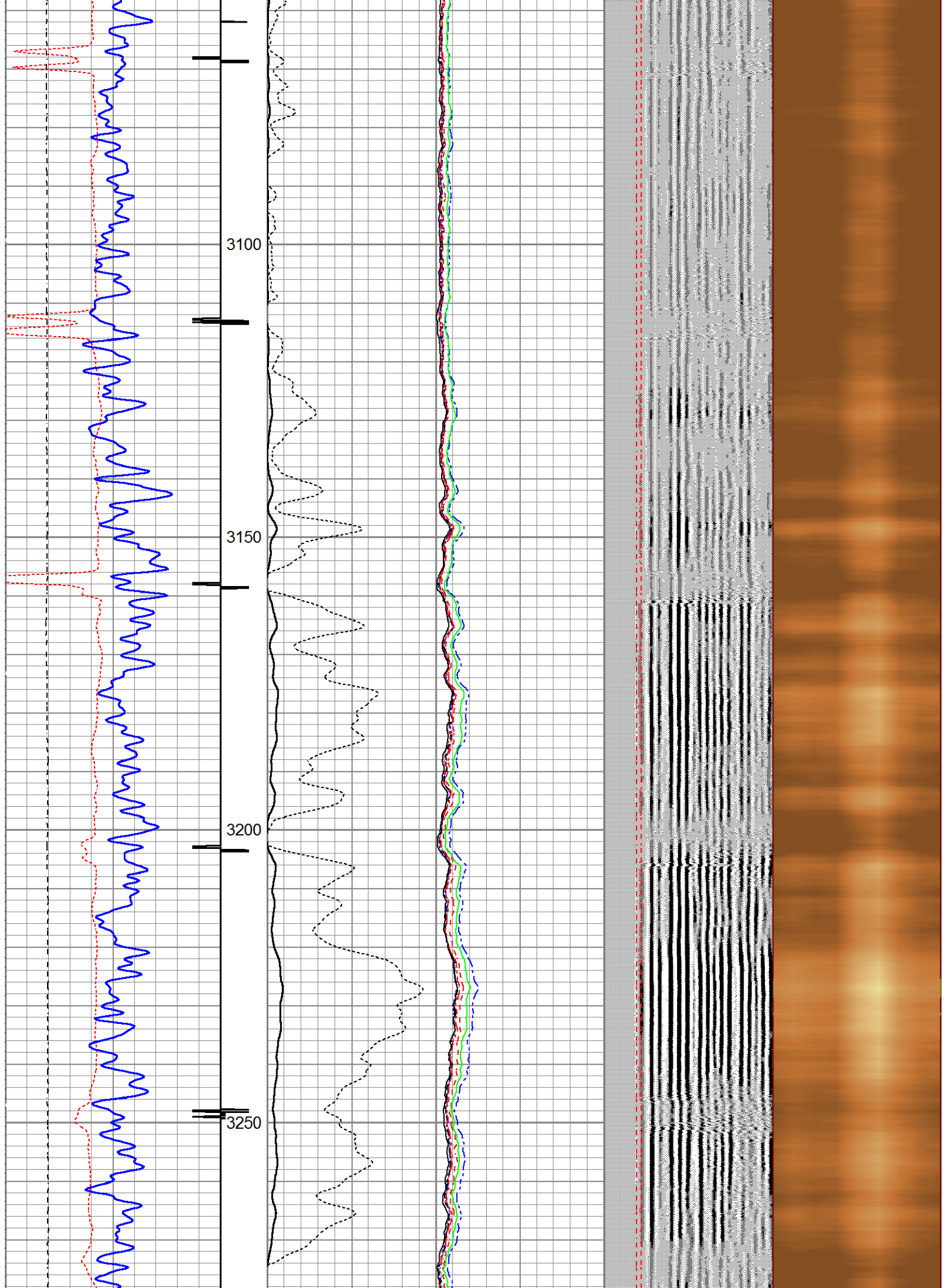


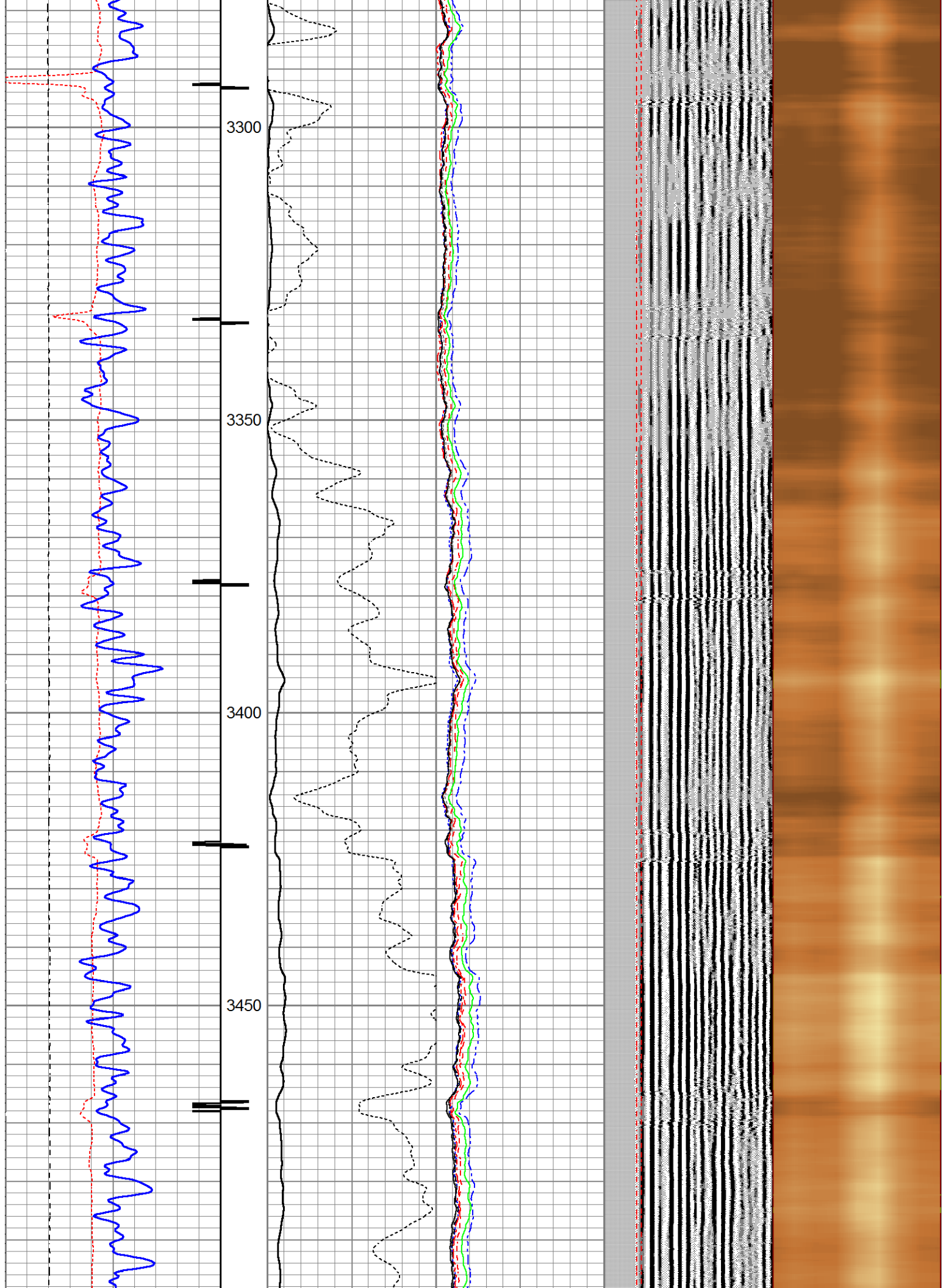


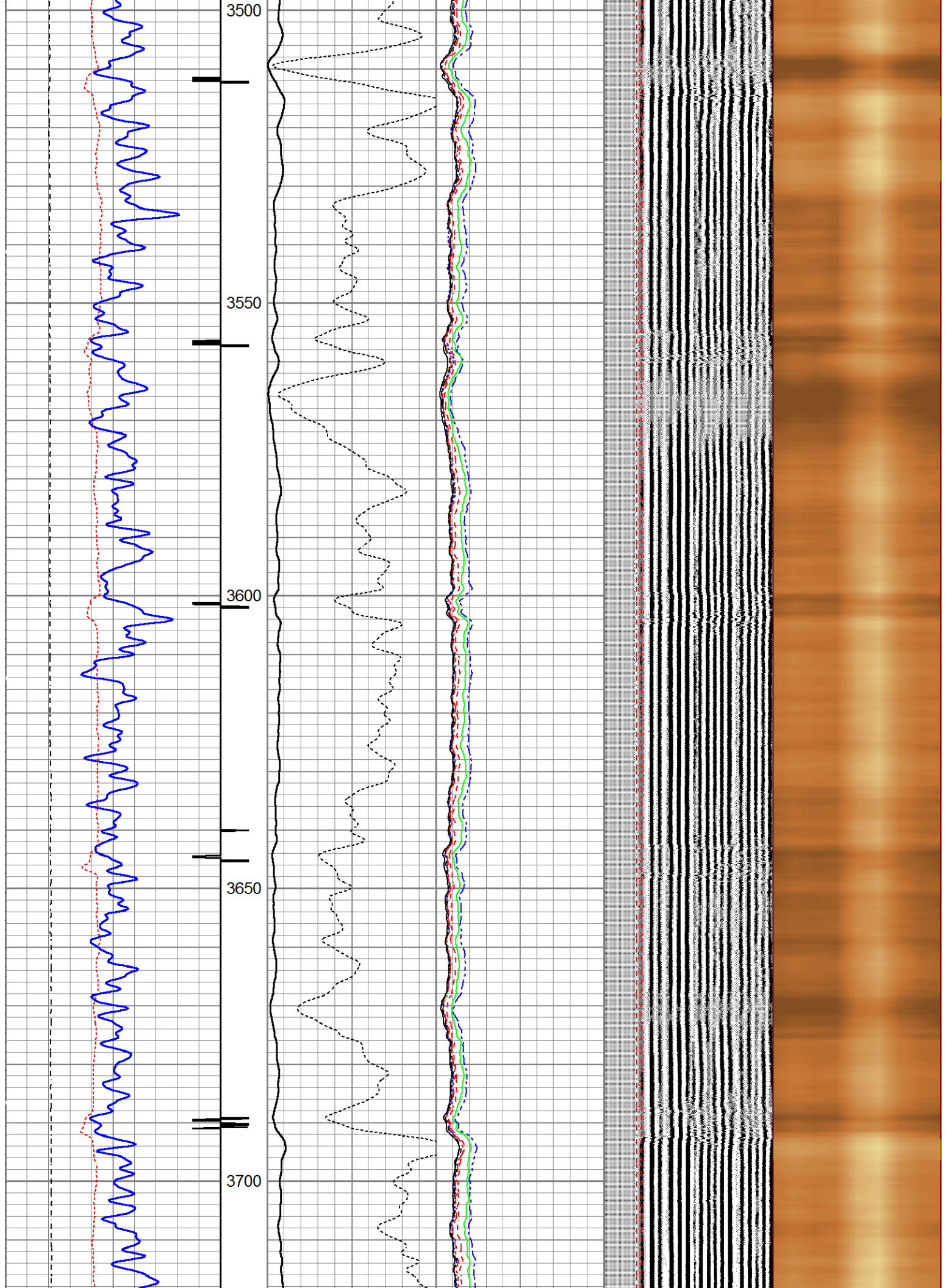


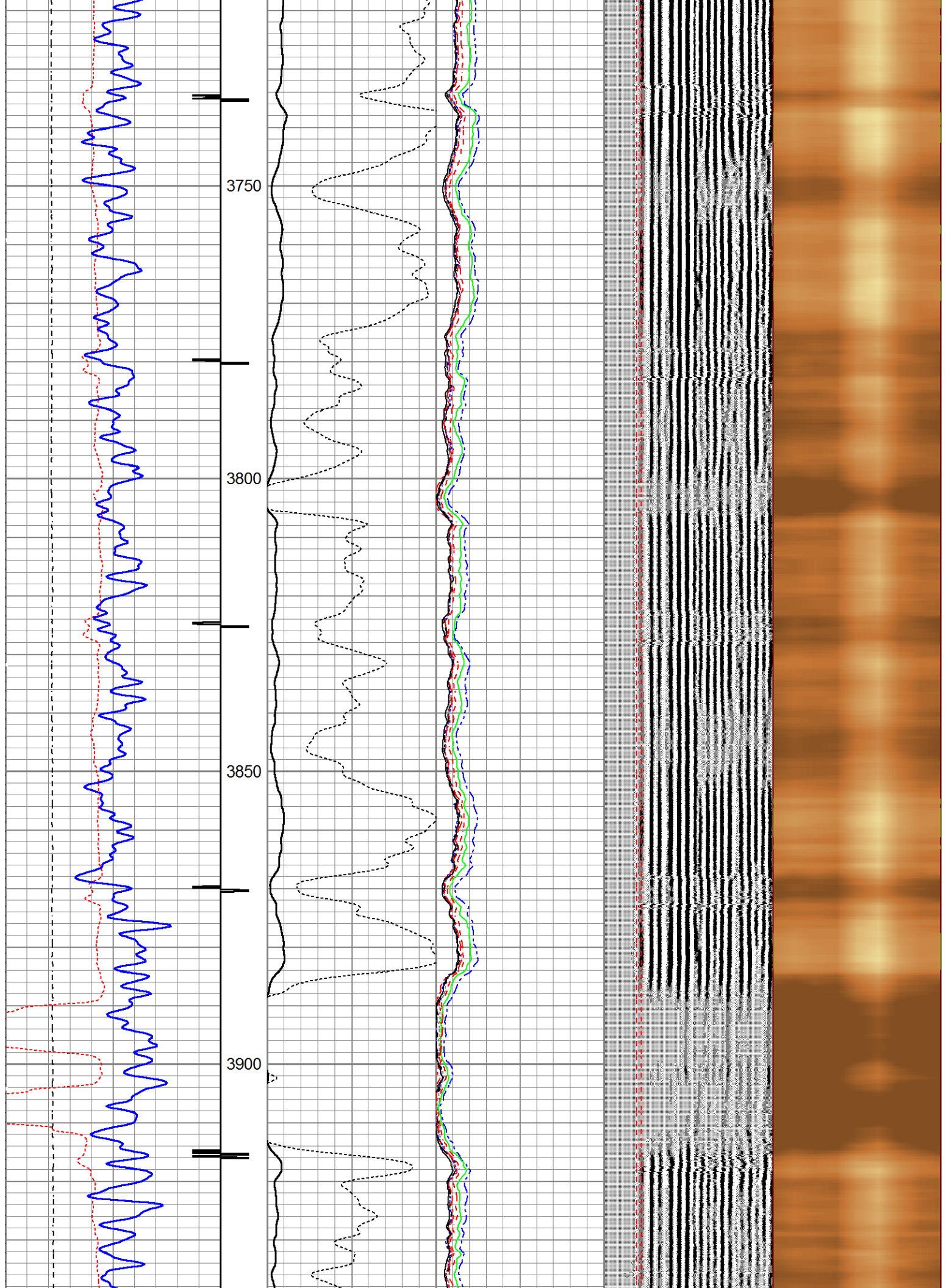


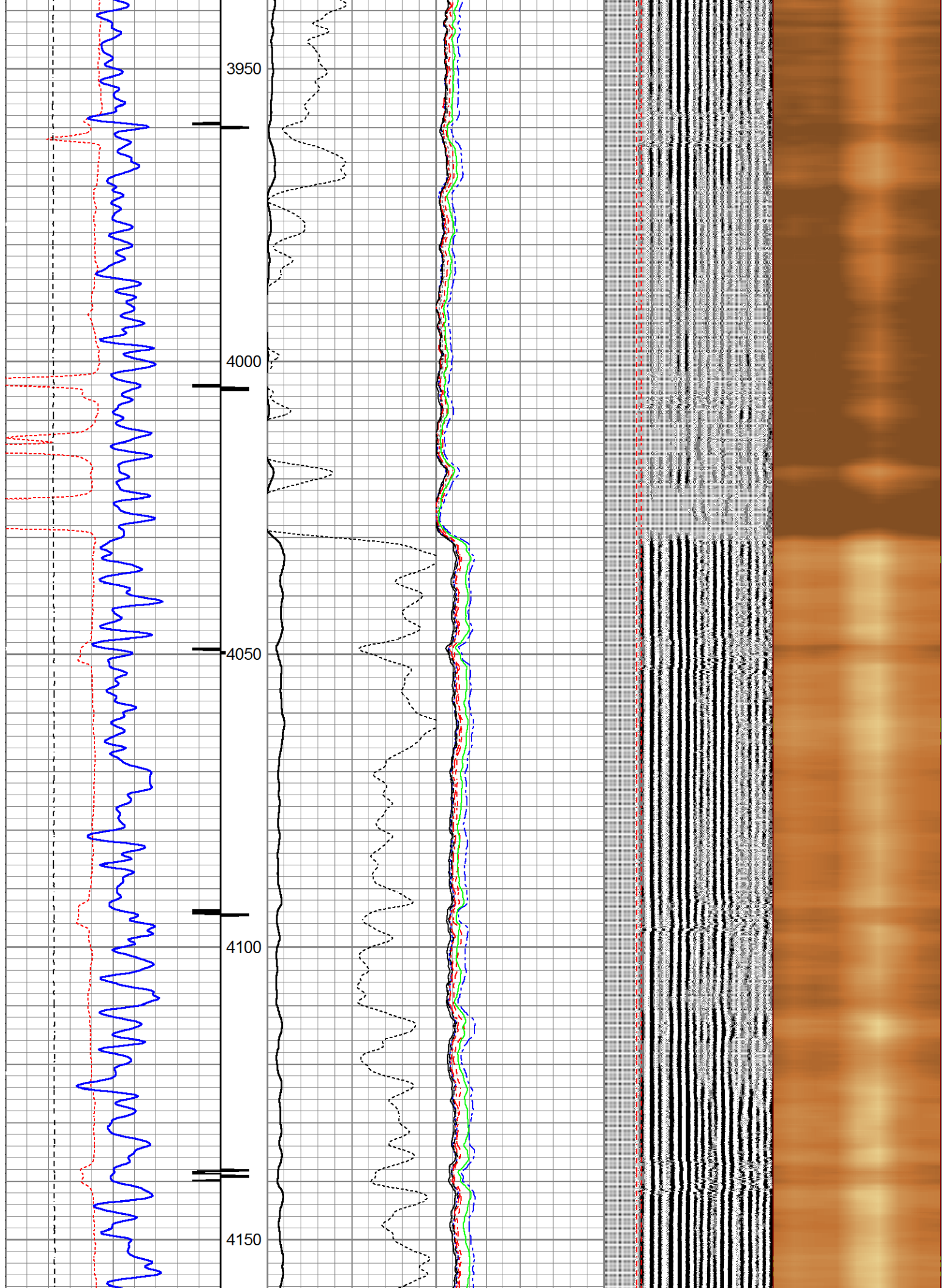


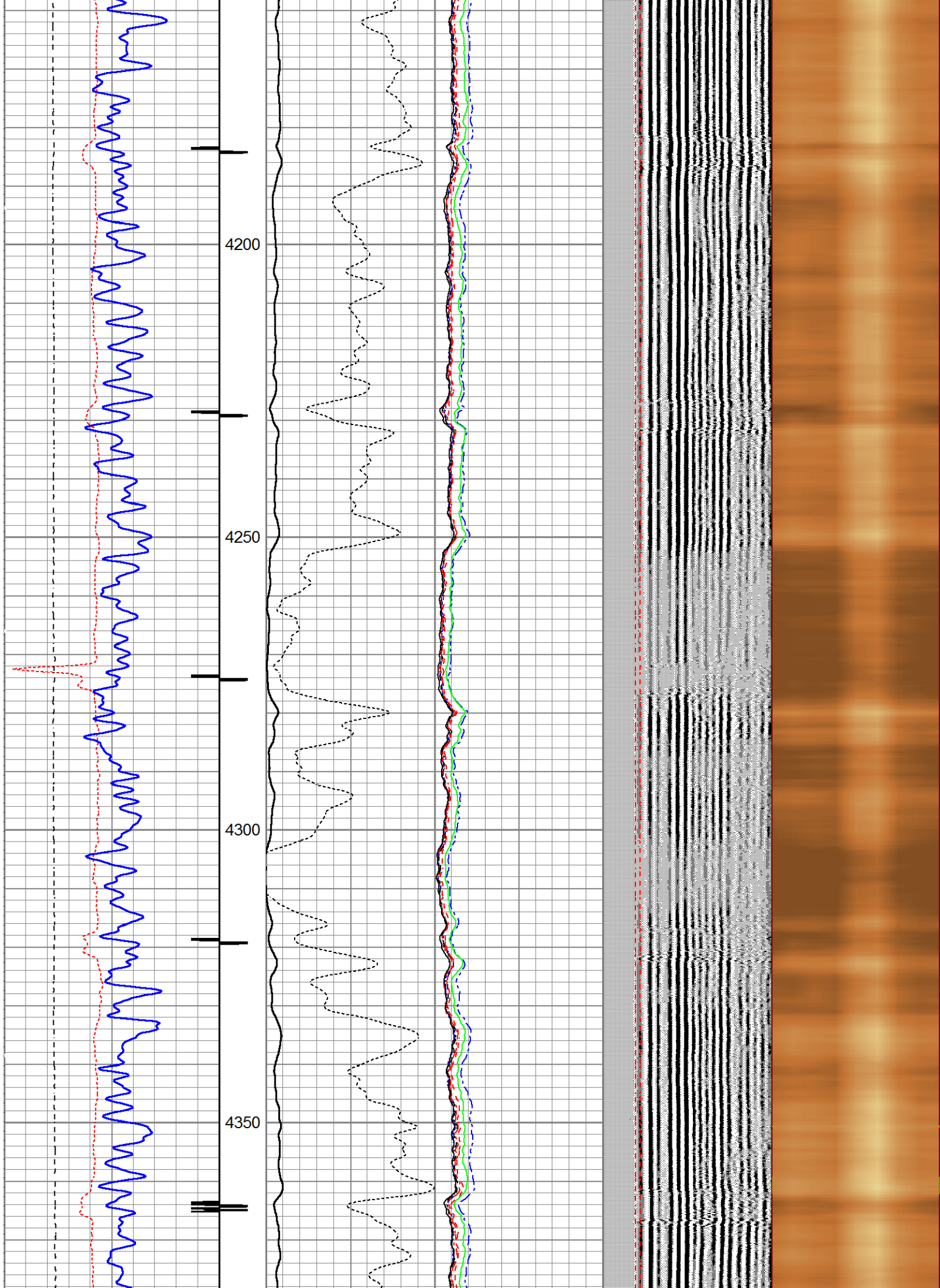


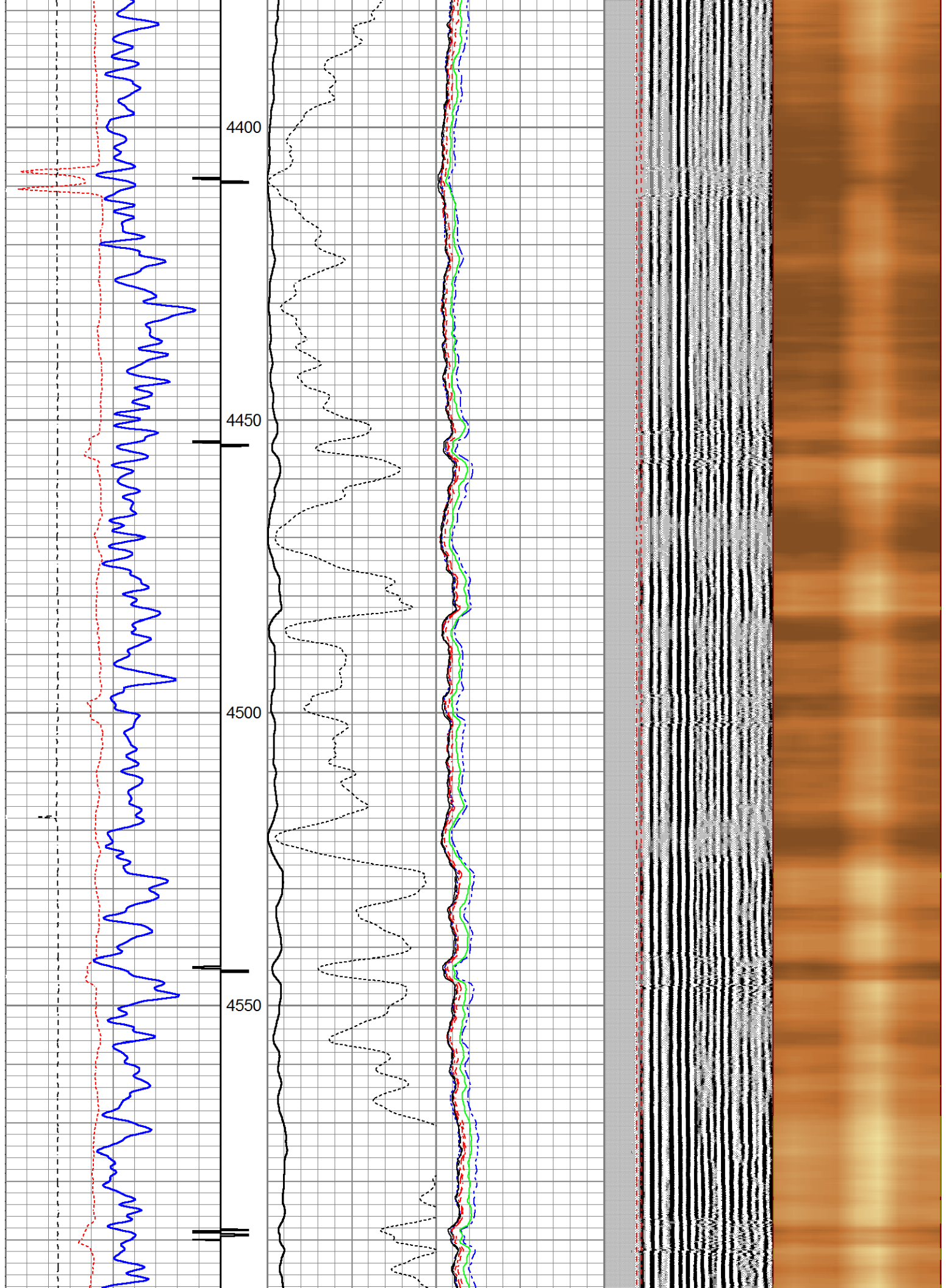


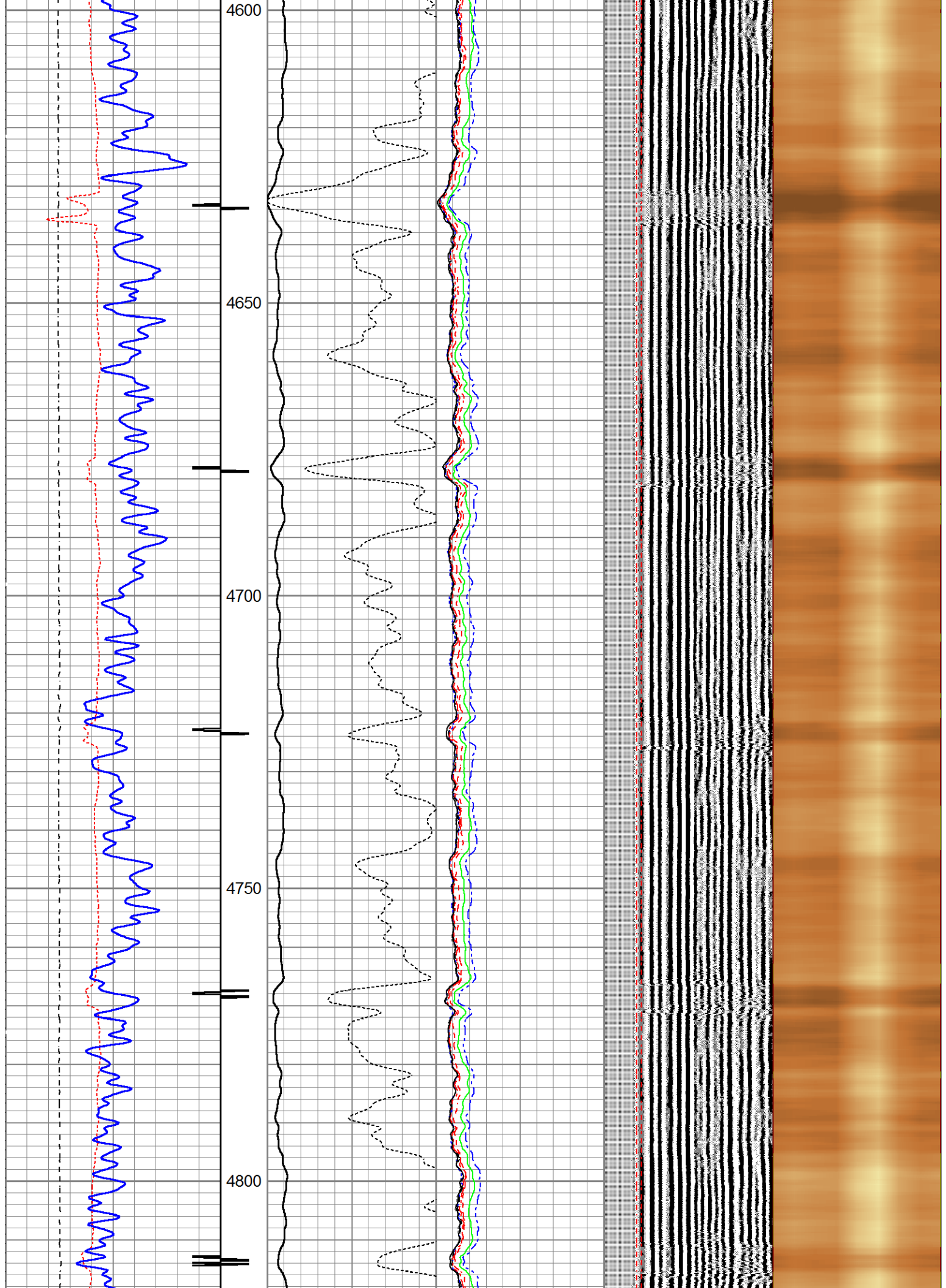


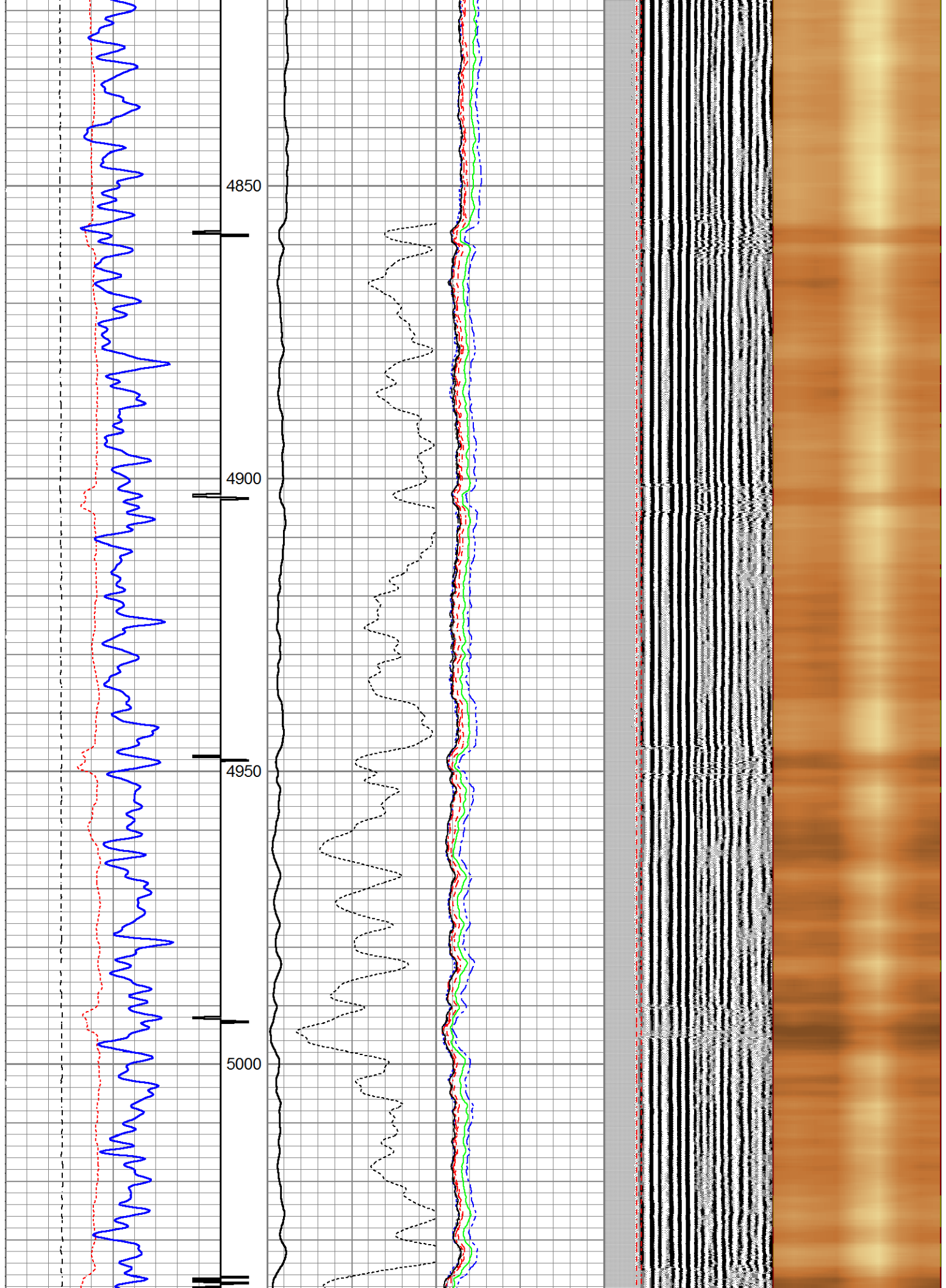


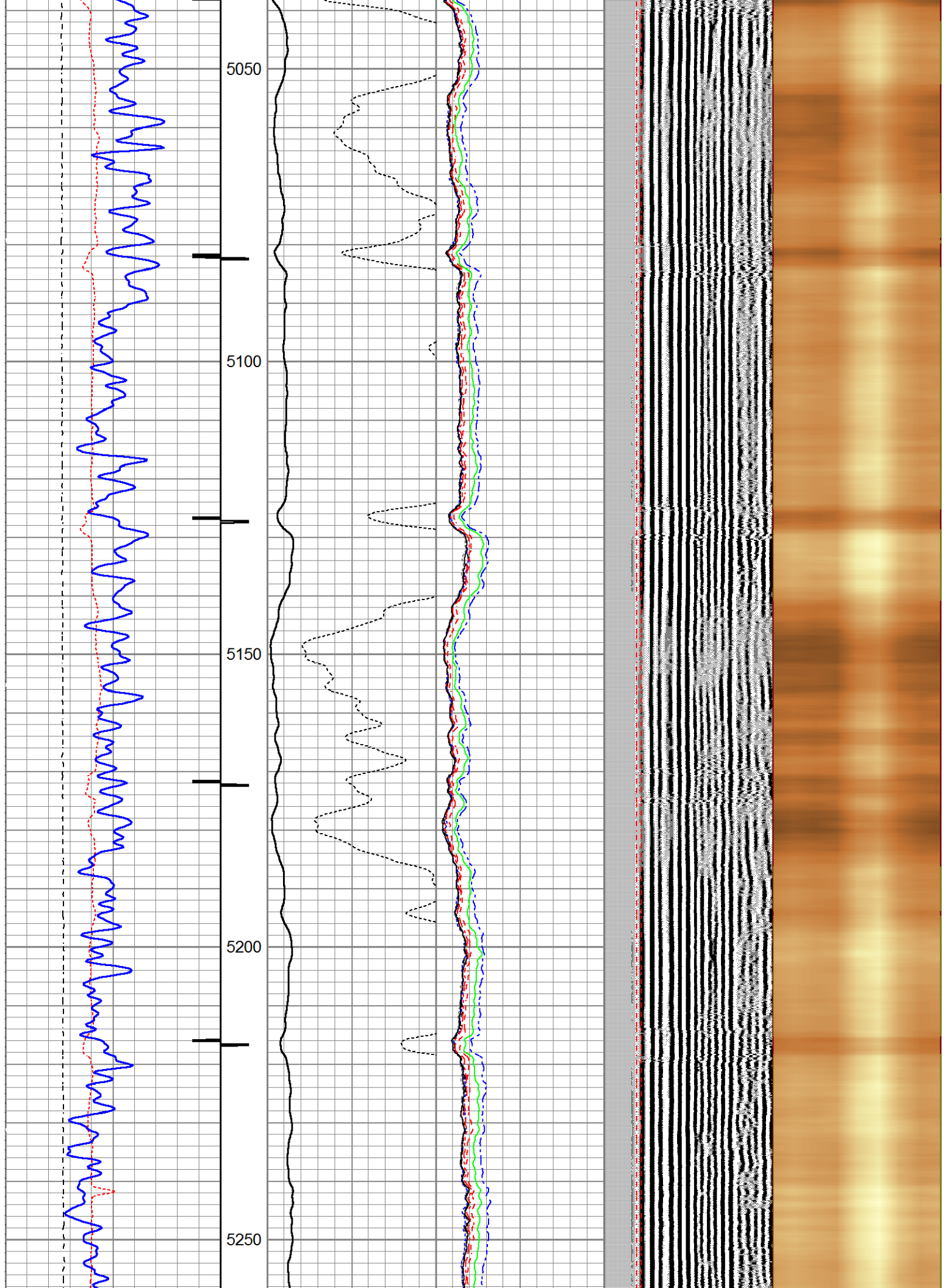


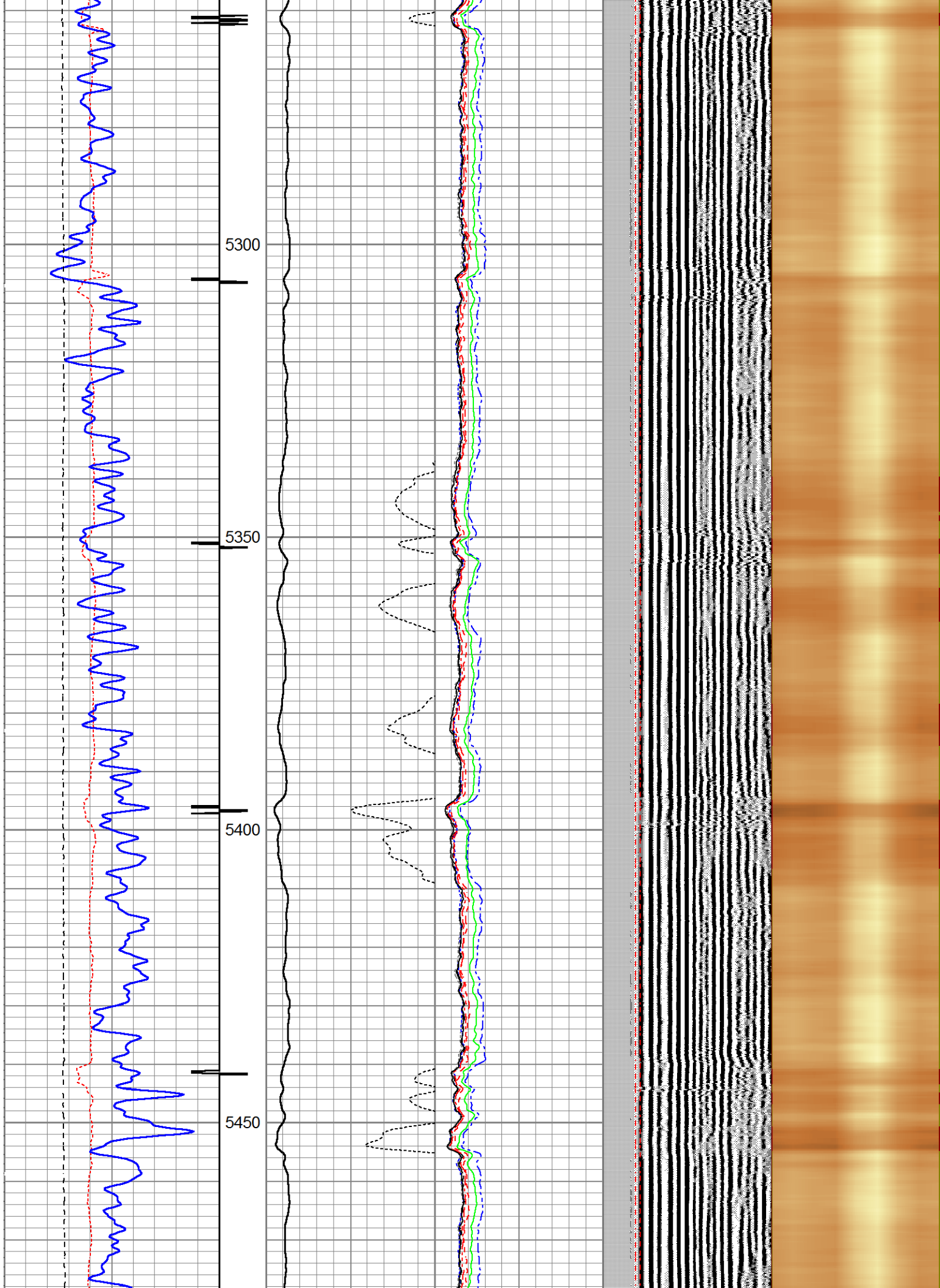


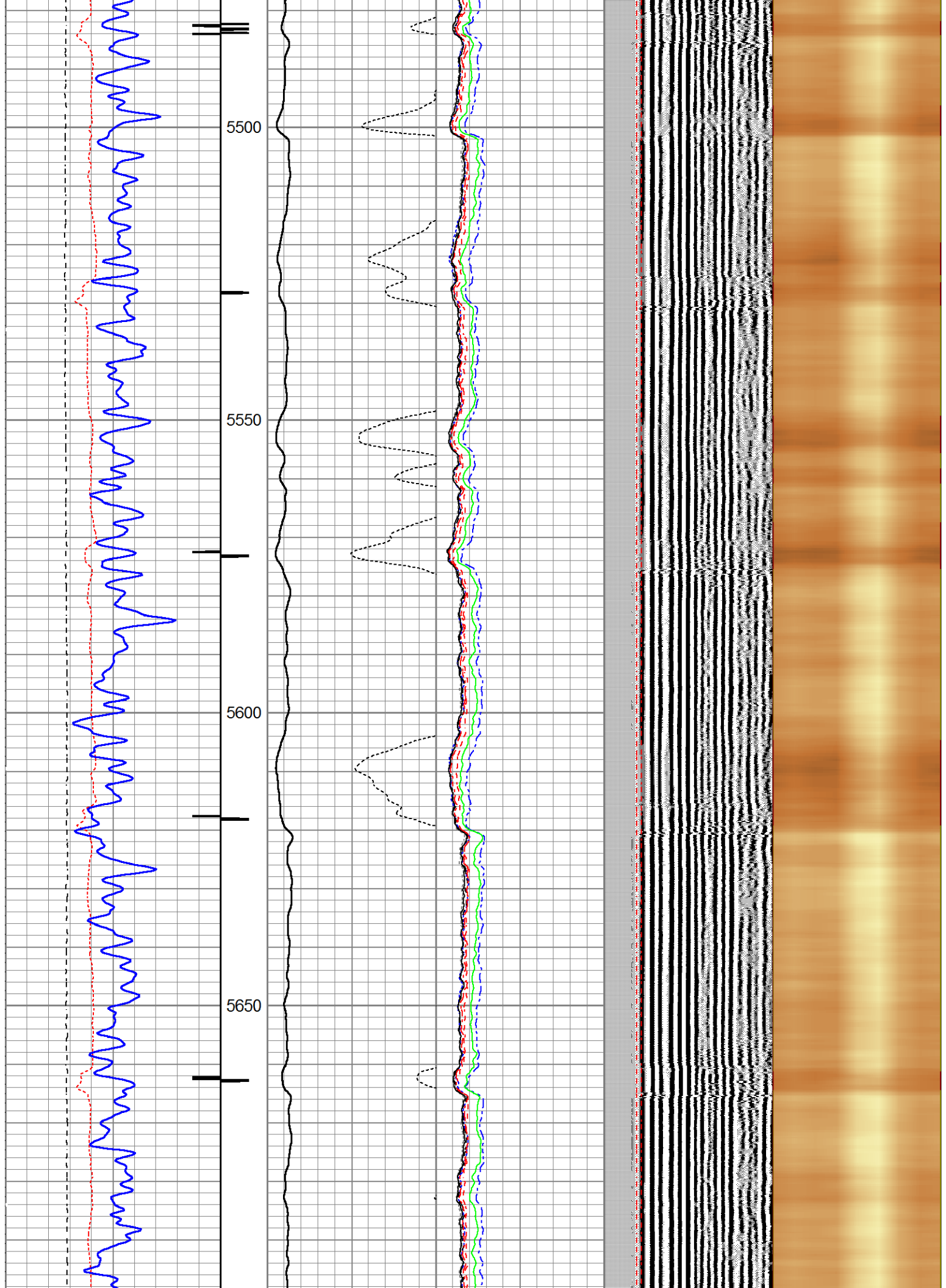


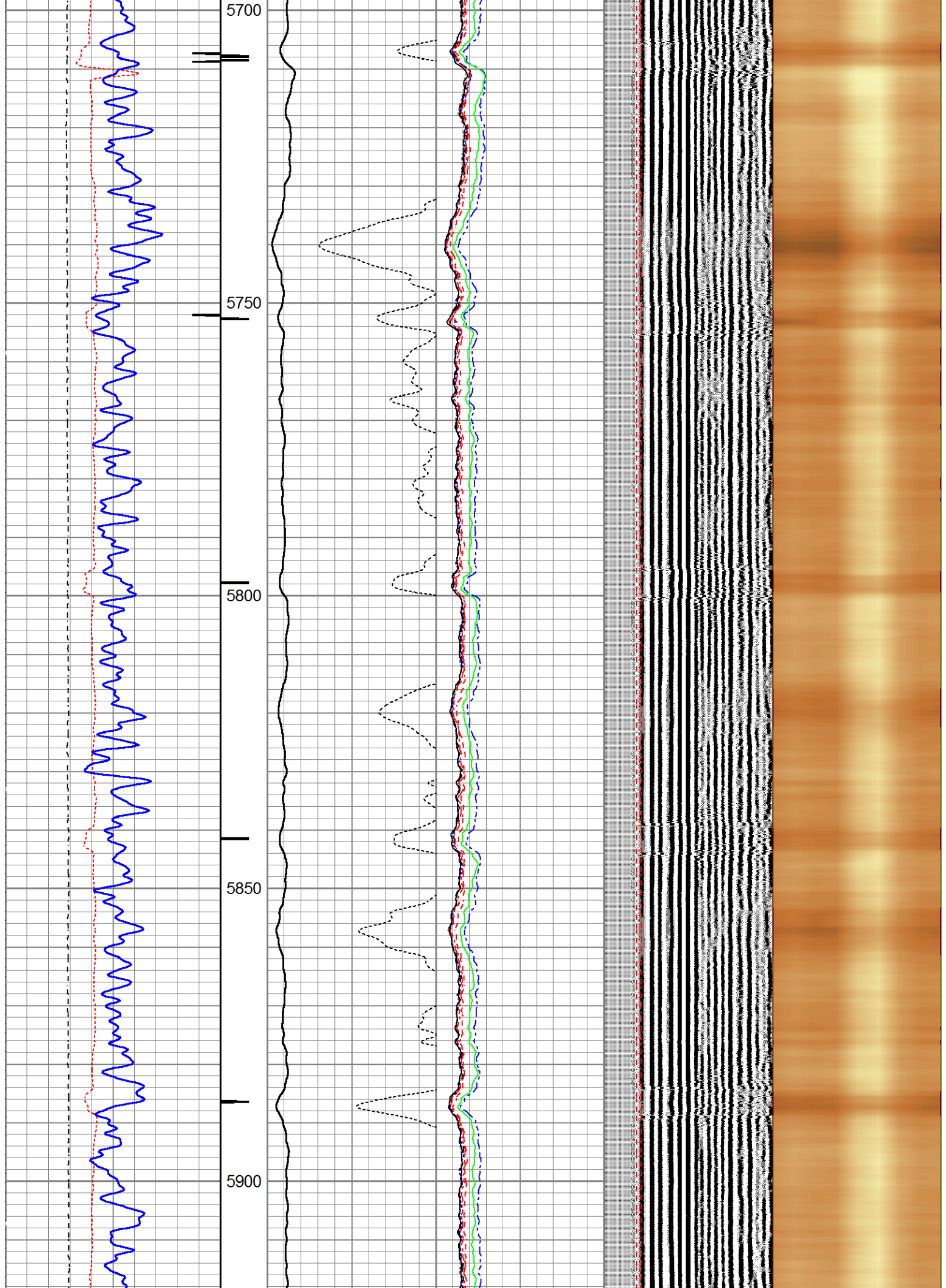


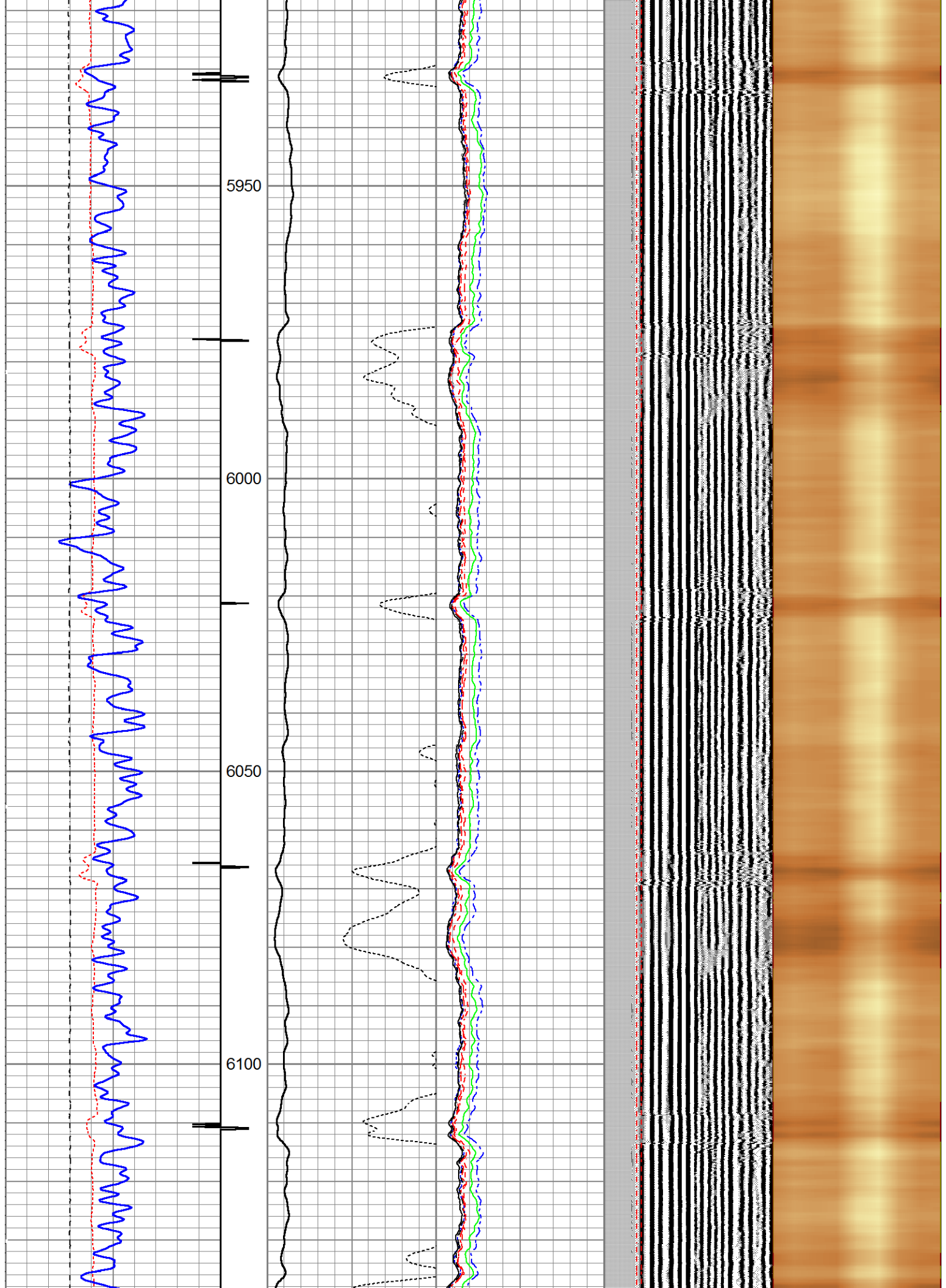


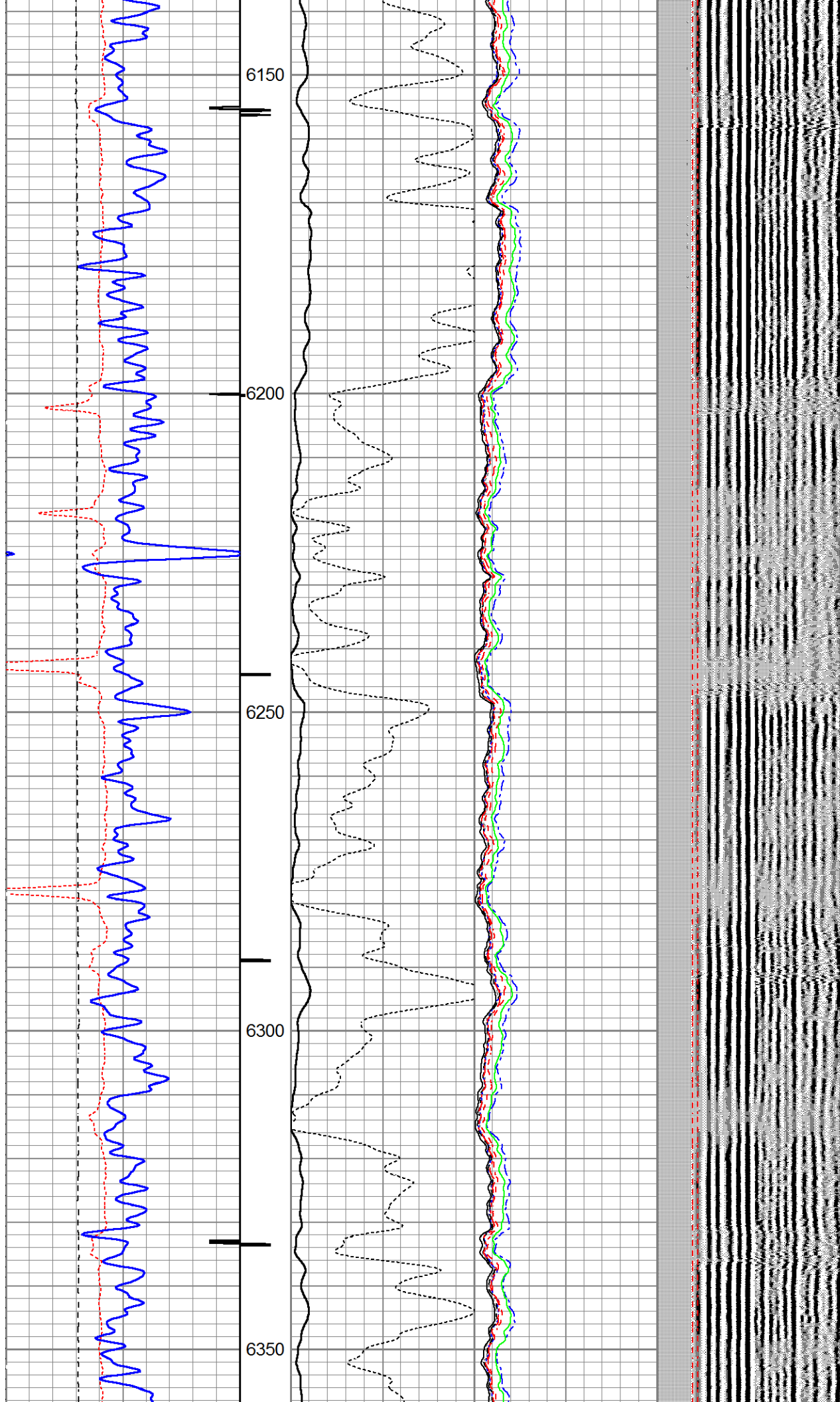


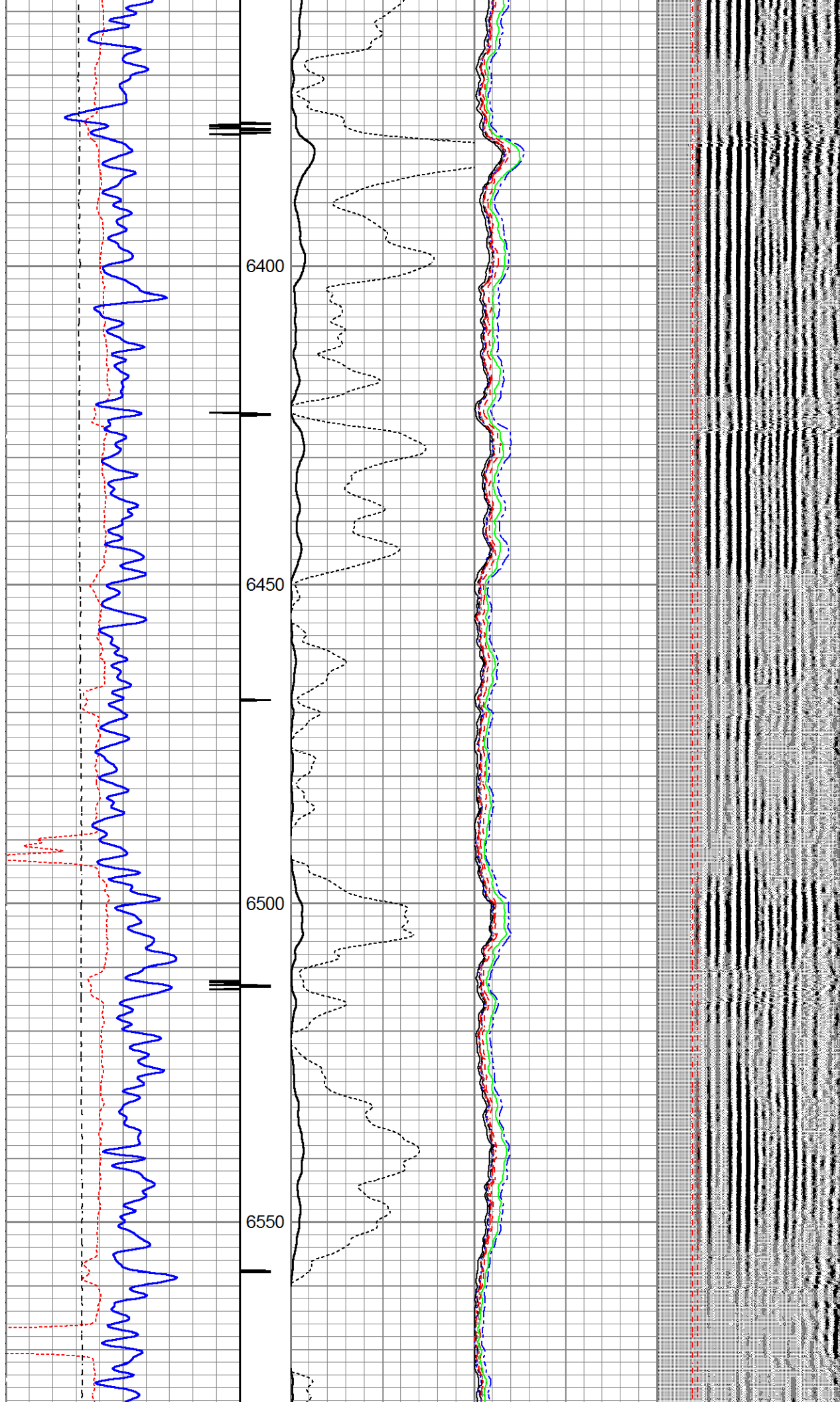


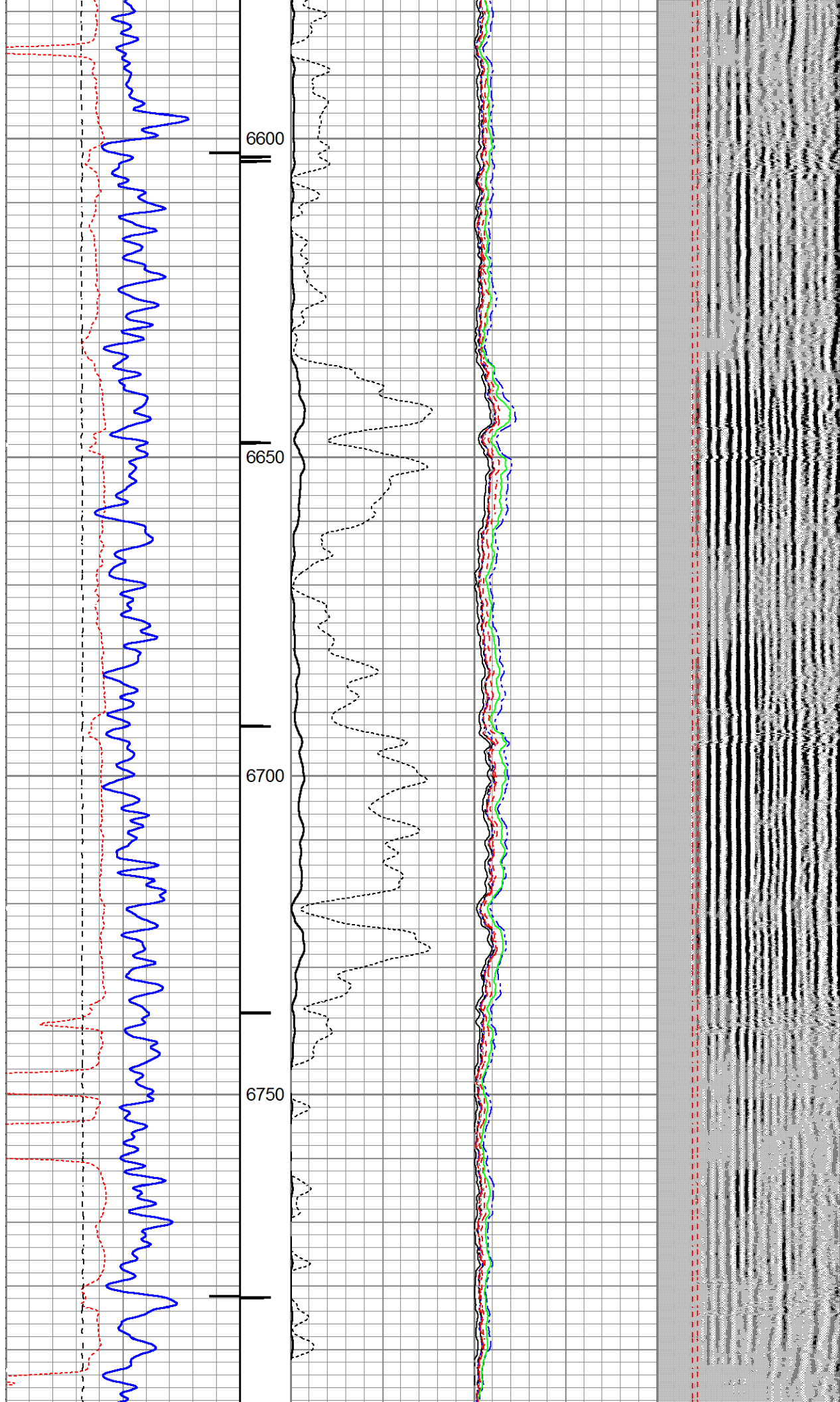


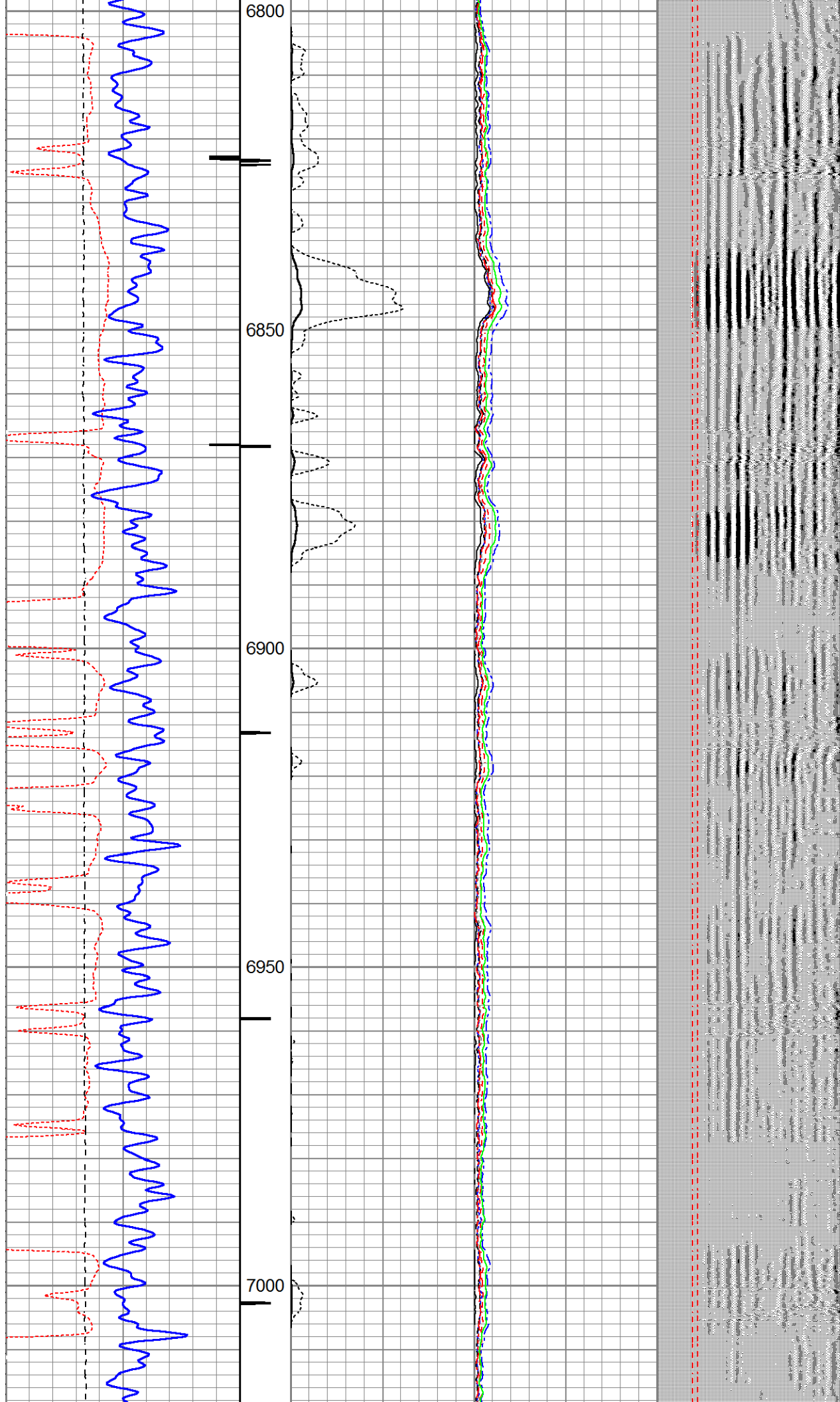


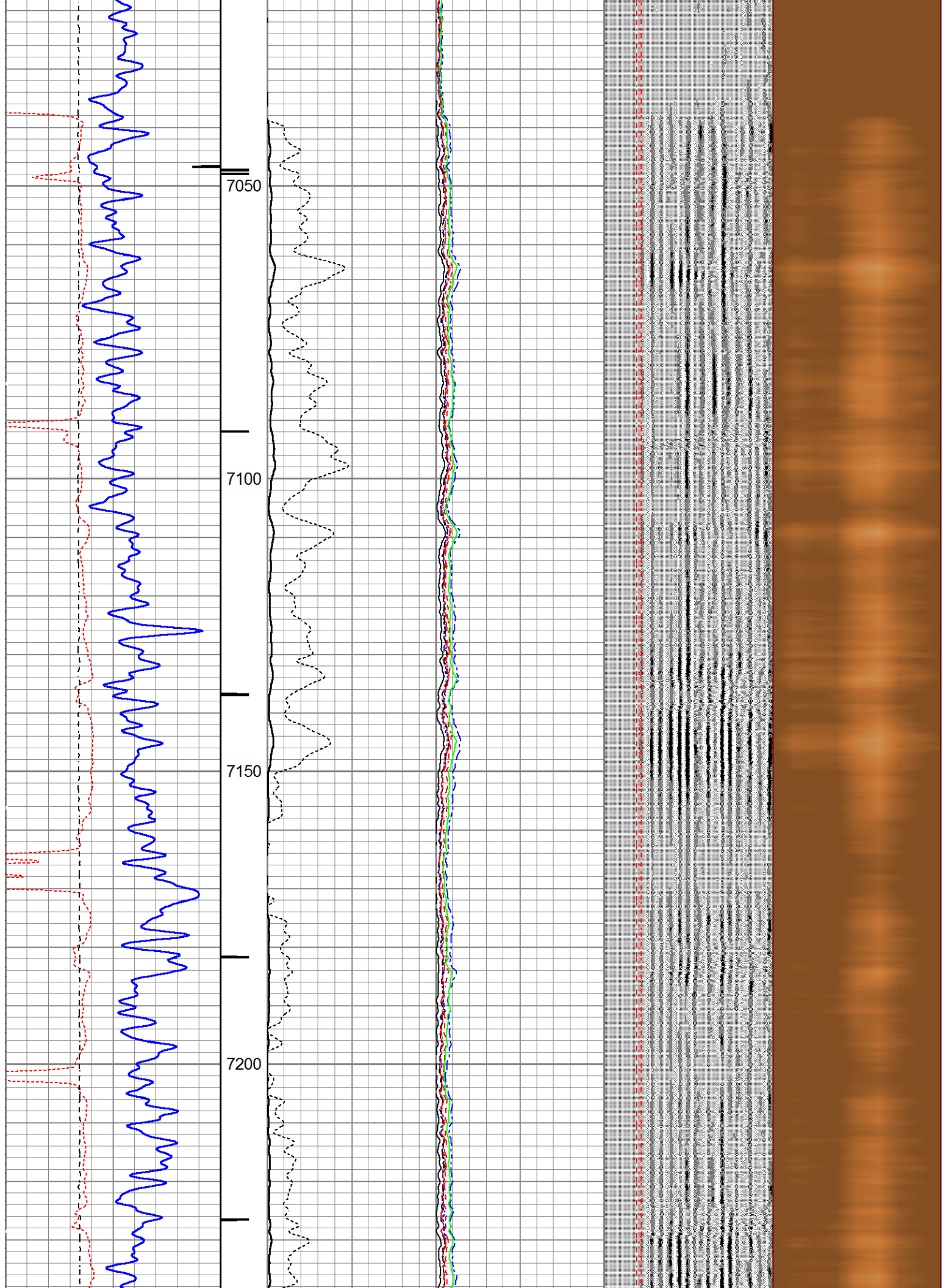


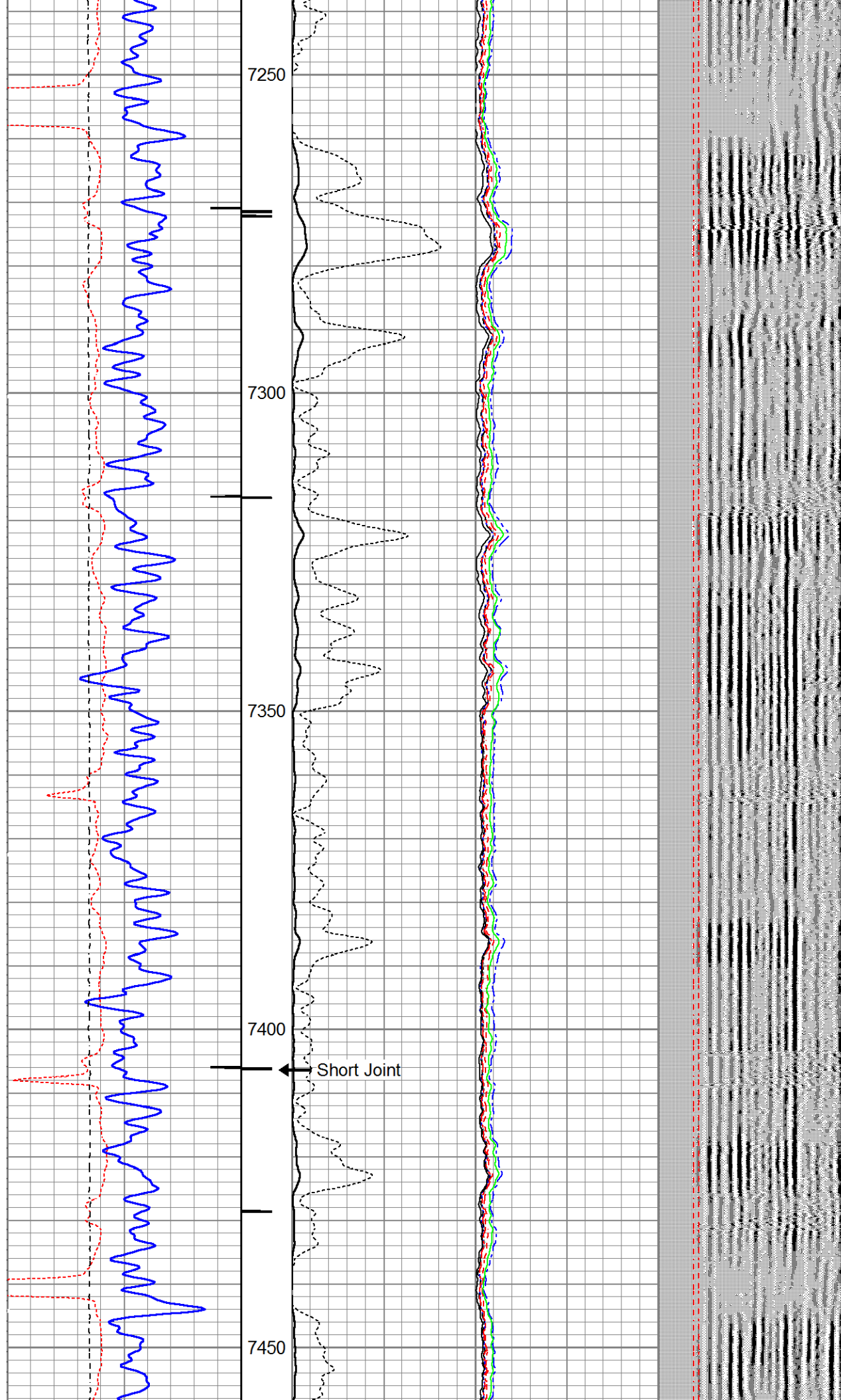


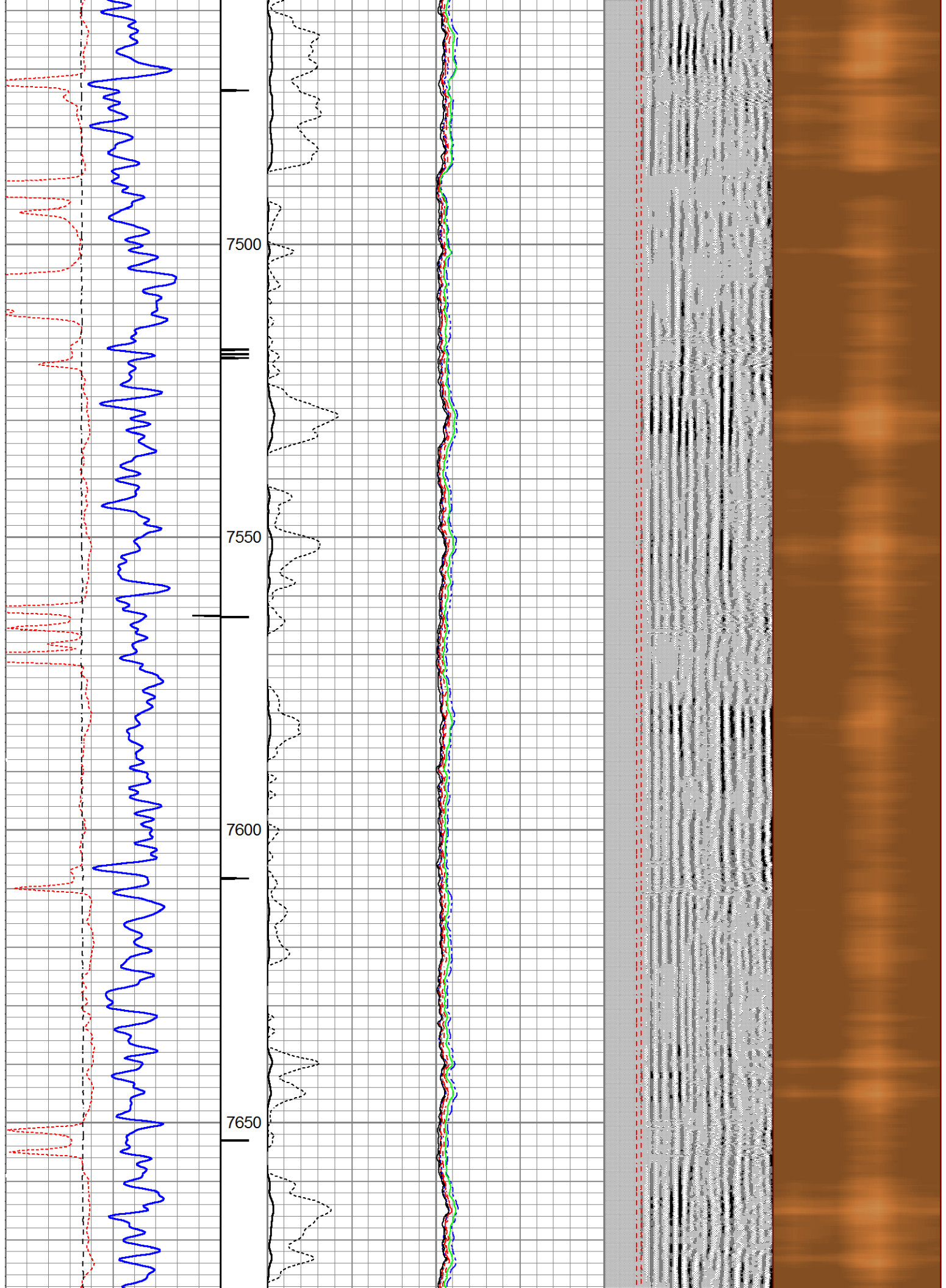


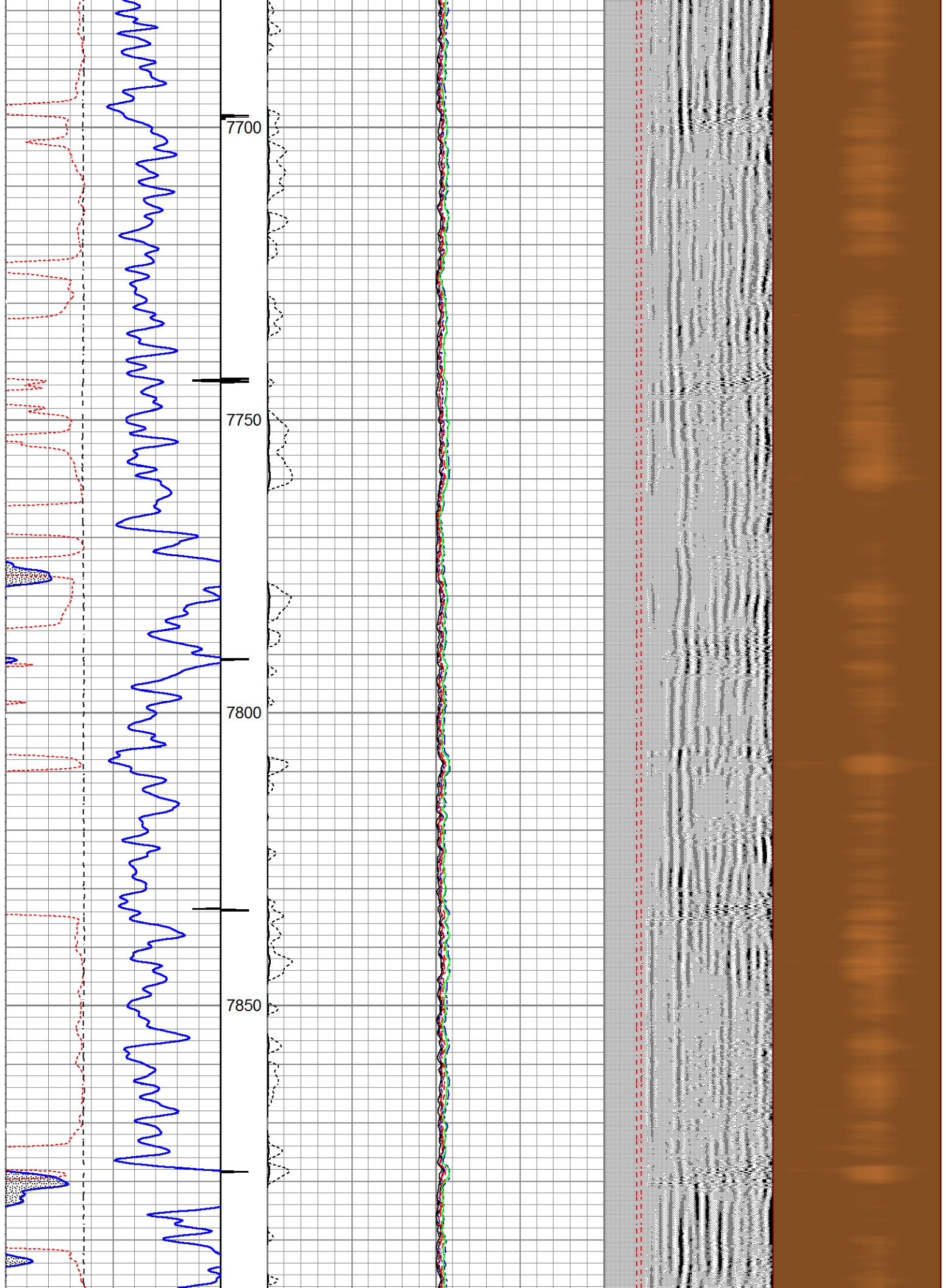


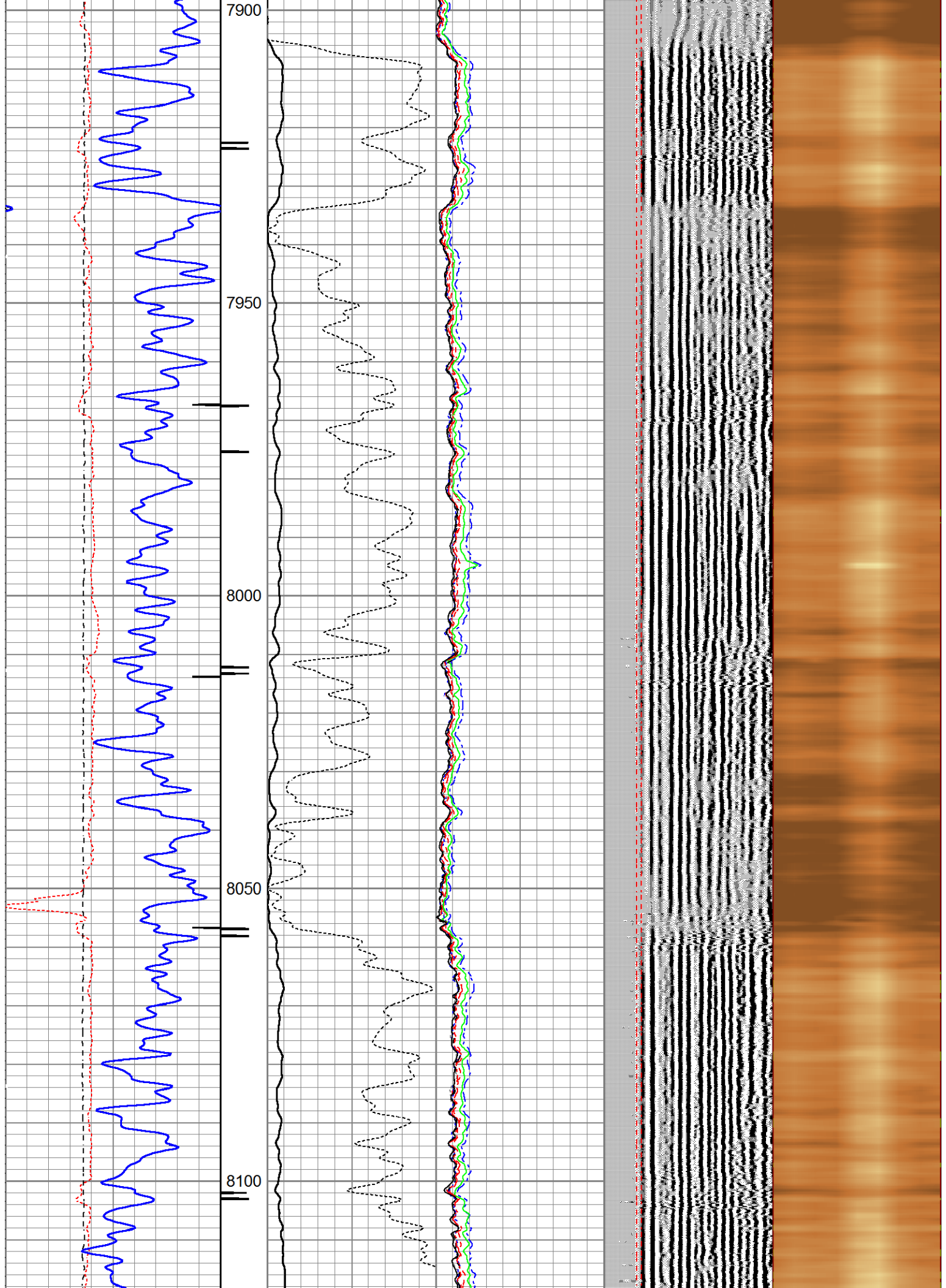


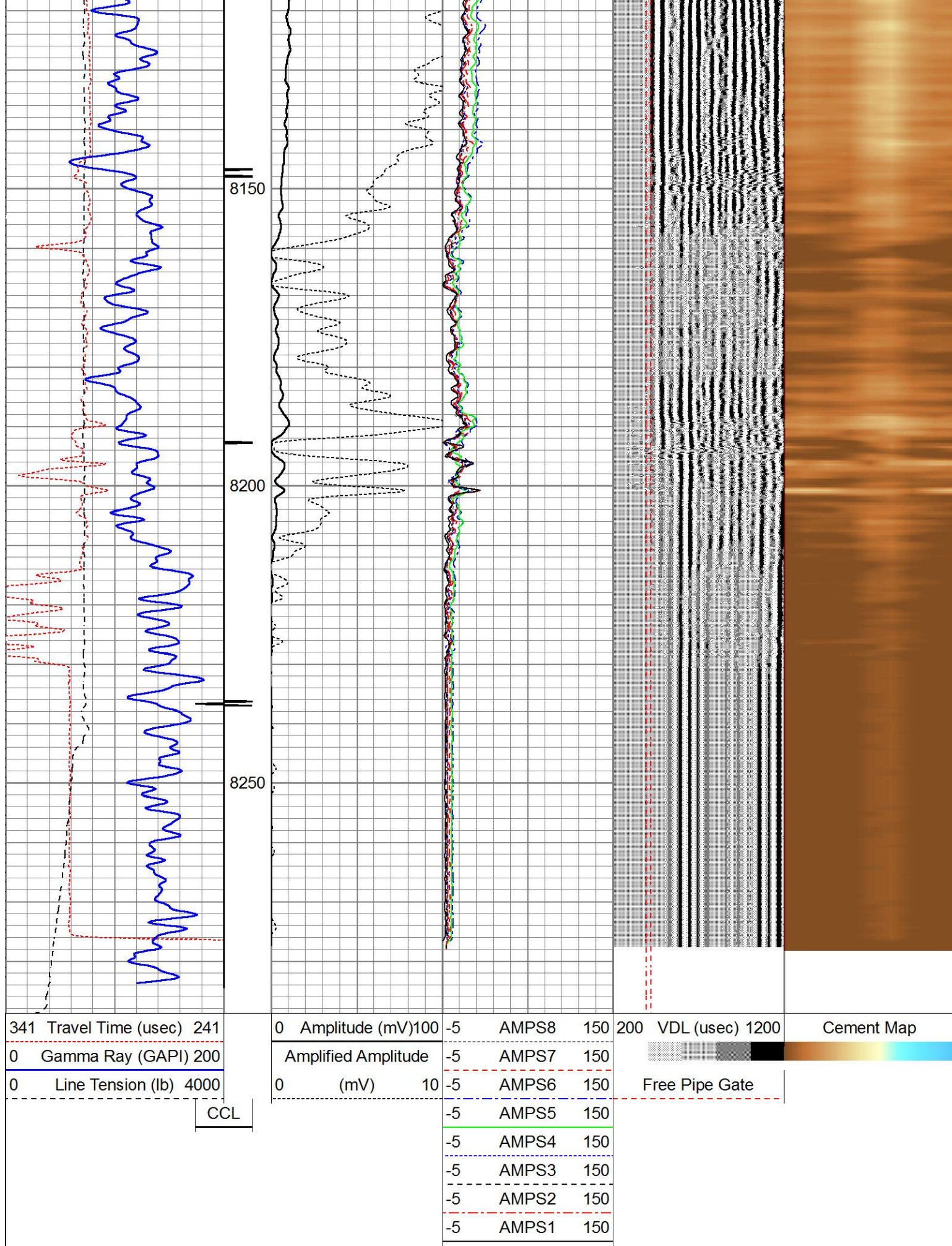












Repeat Pass (0) PSI

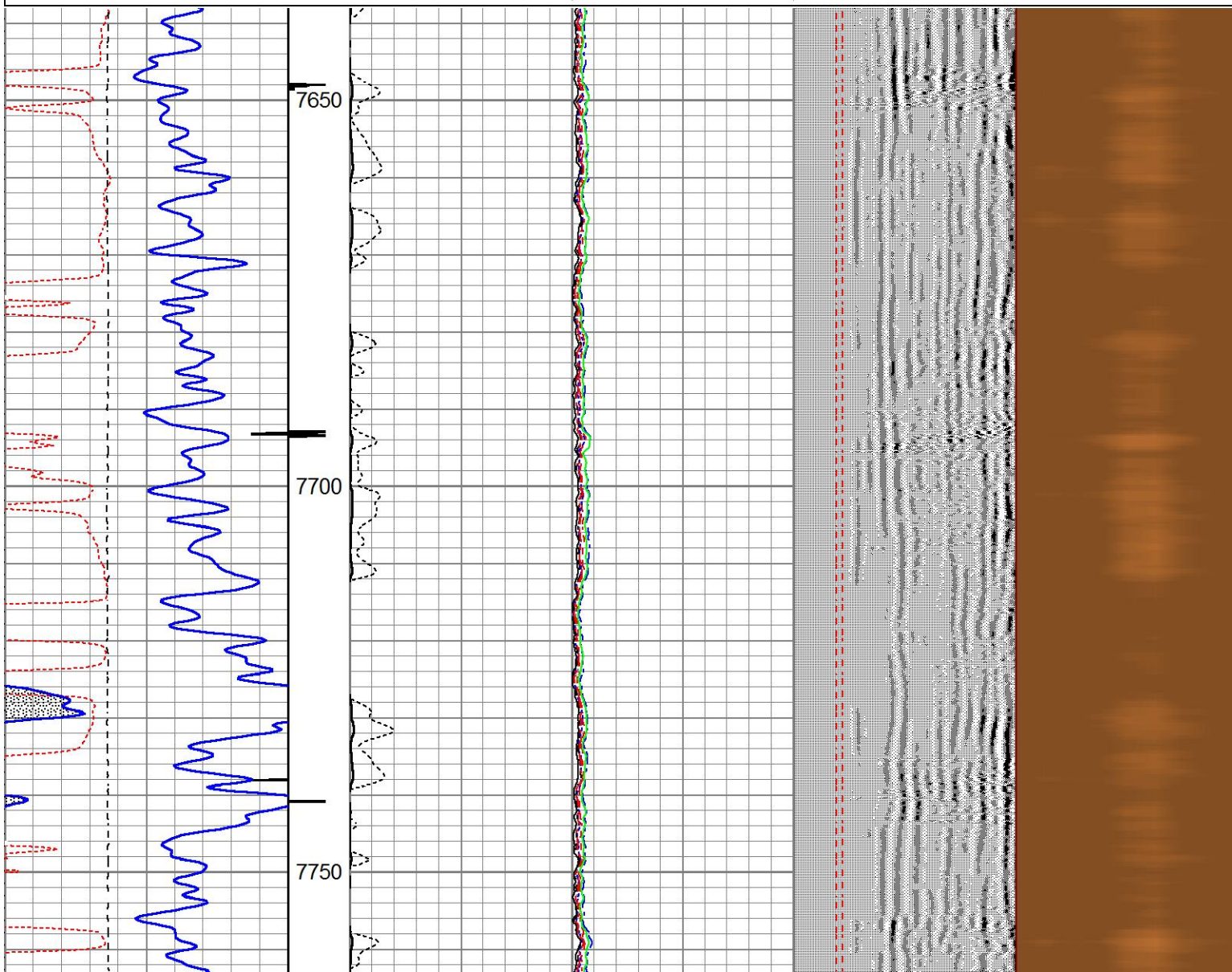
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 Dataset Pathname Shook3-10-1NCH/run1/pass8
 Presentation Format scbl5_5
 Dataset Creation Sun Mar 04 02:32:01 2018
 Charted by Depth in Feet scaled 1:240

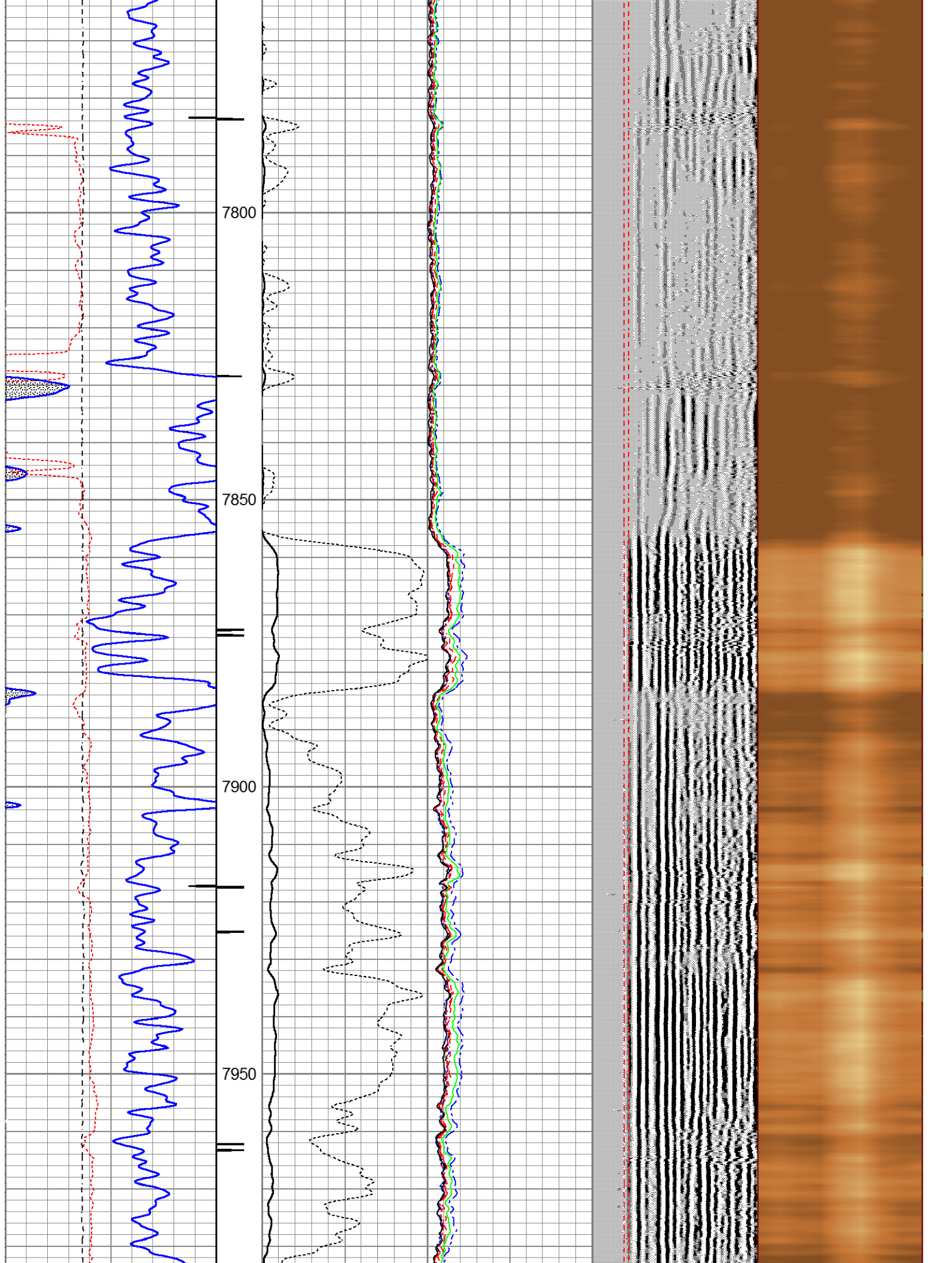
341 Travel Time (usec) 241
 0 Gamma Ray (GAPI) 200
 0 Line Tension (lb) 4000

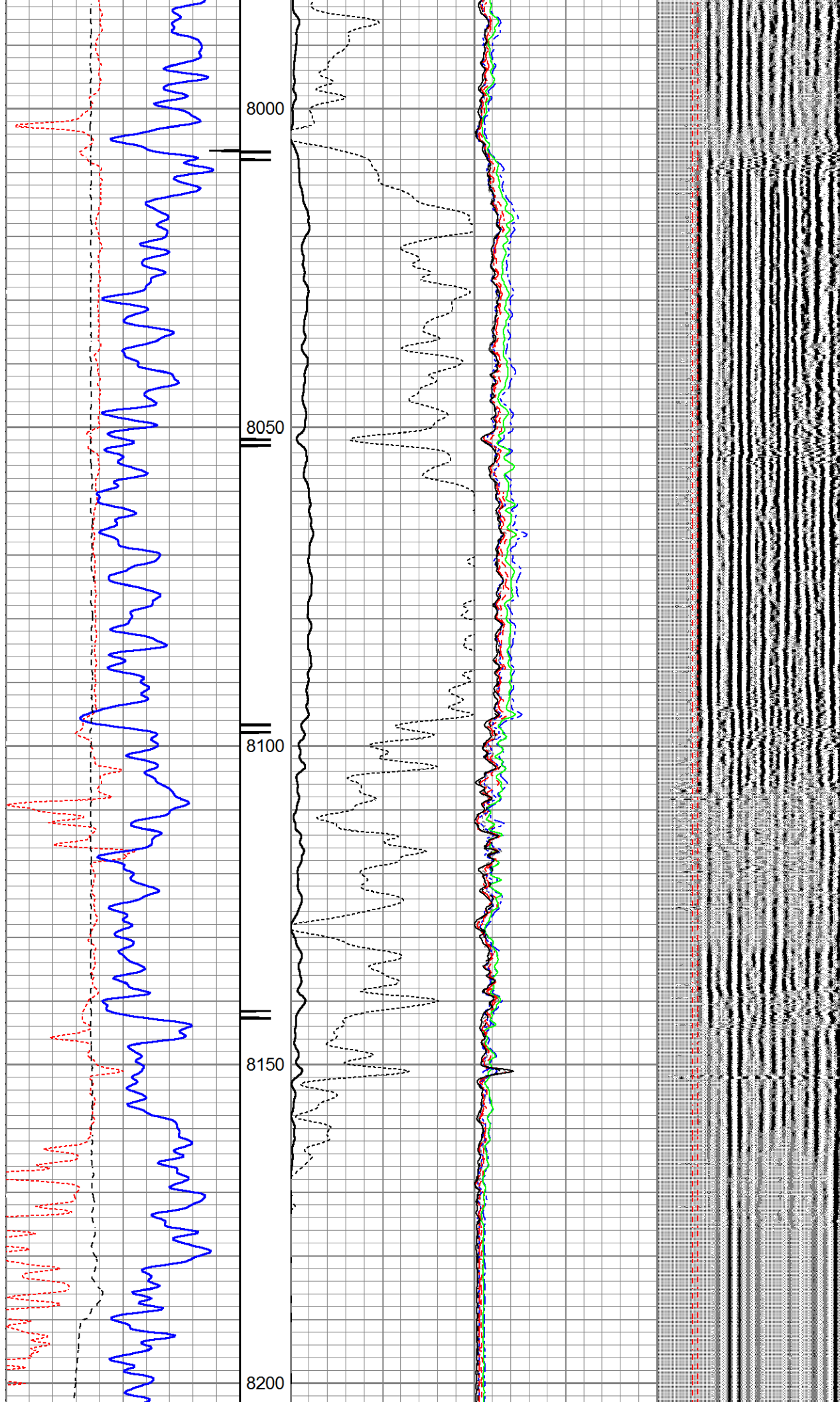
CCL

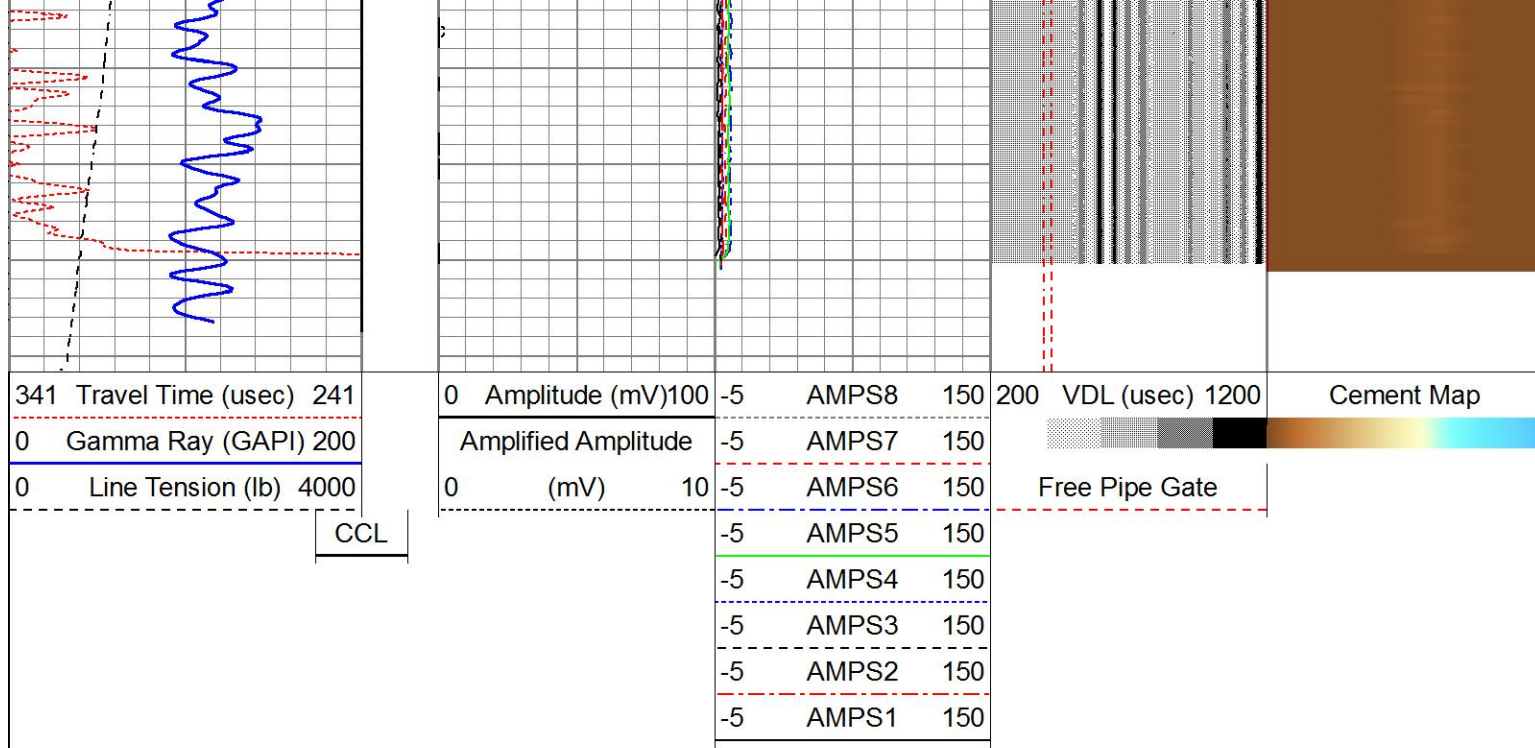
0	Amplitude (mV)	100	-5	AMPS8	150
	Amplified Amplitude		-5	AMPS7	150
0	(mV)	10	-5	AMPS6	150
			-5	AMPS5	150
			-5	AMPS4	150
			-5	AMPS3	150
			-5	AMPS2	150
			-5	AMPS1	150

200 VDL (usec) 1200
 Cement Map
 Free Pipe Gate









Repeat Pass (0) PSI

Log Variables

DatabaseG:\Petroshare Corp Shook Pad\DB's\fs0209 ps shook 3-10-1nch cbl.db
Dataset field/Shook3-10-1NCH/run1/pass10/_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.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation

PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File G:\Petroshare Corp Shook Pad\DB's\fs0209 ps shook 3-10-1nch cbl.db
Dataset Pathname Shook3-10-1NCH/run1/pass10
Dataset Creation Sun Mar 04 02:44:30 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

Segmented Cement Bond Log Calibration Report

Serial Number:	120768C	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	236.863	ft

Master Calibration, performed Sun Mar 04 01:50:05 2018:

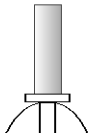
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	0.571	1.000	71.921	126.557	-0.393
CAL	0.004	0.910				
5'	0.000	0.468	1.000	71.921	151.737	0.963
SUM						
S1	0.042	0.602	0.000	100.000	178.456	-7.476
S2	0.010	0.585	0.000	100.000	173.957	-1.720
S3	0.009	0.568	0.000	100.000	178.892	-1.616
S4	0.009	0.556	0.000	100.000	182.857	-1.692
S5	0.011	0.555	0.000	100.000	183.644	-2.002
S6	0.011	0.572	0.000	100.000	178.199	-2.003
S7	0.009	0.589	0.000	100.000	172.318	-1.538
S8	0.009	0.596	0.000	100.000	170.429	-1.556

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	0.004	0.910	1.000	0.000

Air Zero Calibration, performed Sat Mar 03 18:55:30 2018:

	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	

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

