



Radial Cement Bond Log

Company CUB CREEK ENERGY
Well MARKHAM 09
Field WATTENBERG
County WELD State CO

Location:

SHL 2357' FSL & 1515' FEL

API #: 05-123-43246

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation
Log Measured From K.B. 17'
Drilling Measured From KELLY BUSHING

Elevation
K.B. 5059'
D.F. 5058'
G.L. 5042'

Date 10/26/2016

Run Number ONE

Depth Driller 11.975'

Depth Logger 7528'

Bottom Logged Interval 7520'

Top Log Interval SURFACE

Open Hole Size 8-3/4"

Type Fluid WATER

Density / Viscosity N/A

Max. Recorded Temp. 247

Estimated Cement Top SEE LOG

Time Well Ready ROA

Time Logger on Bottom SEE LOG

Equipment Number W-62

Location WINDSOR, CO

Recorded By C. CALIENDO

Witnessed By R. PAPE

Borehole Record

Run Number Bit From To Size Weight From To

Casing Record Size Vgt/Ft Top Bottom

Surface String 9-5/8" 36# SURFACE

Prot. String 5-1/2" 17# SURFACE


Production String 5-1/2" 17# SURFACE

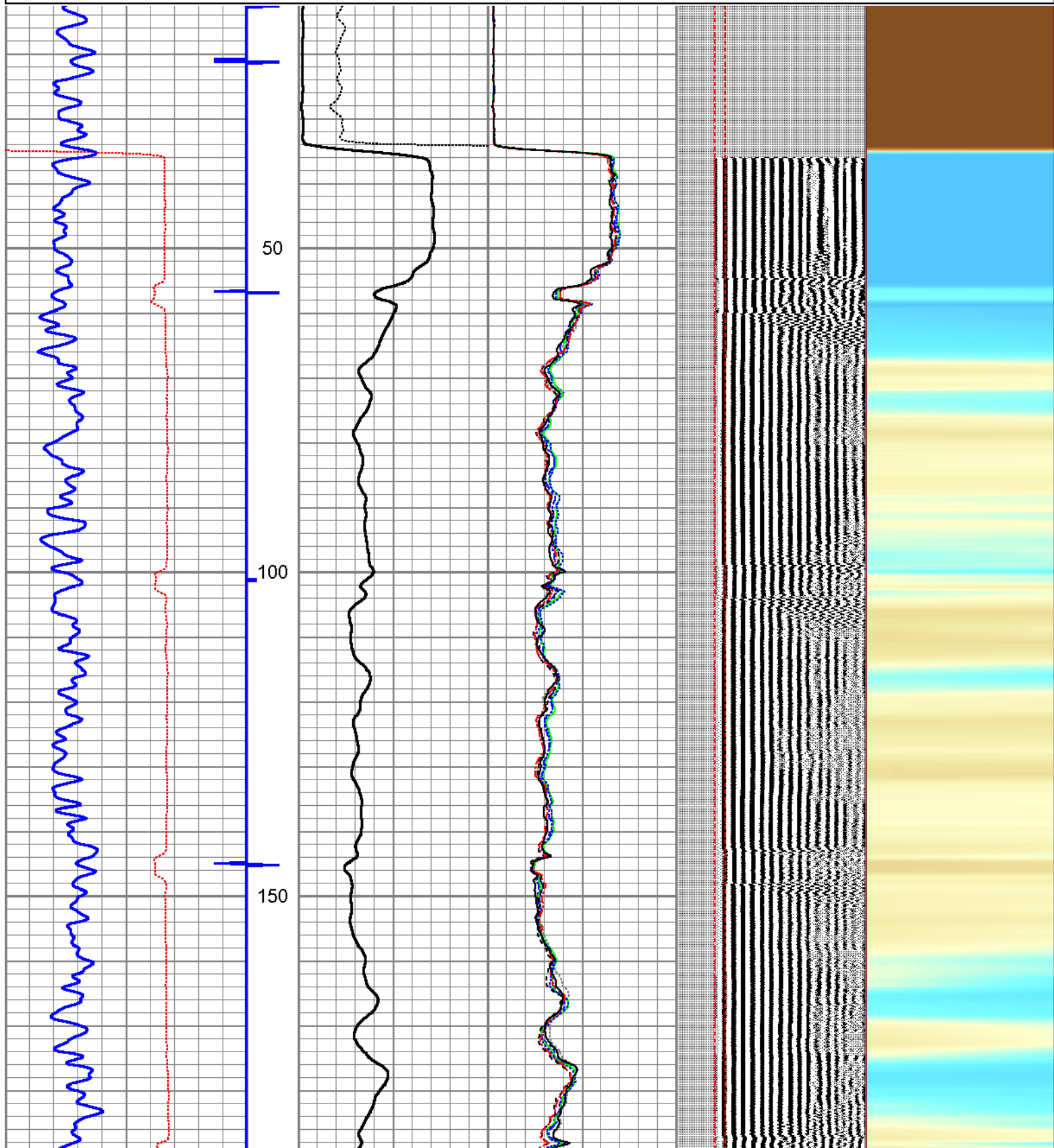
Liner

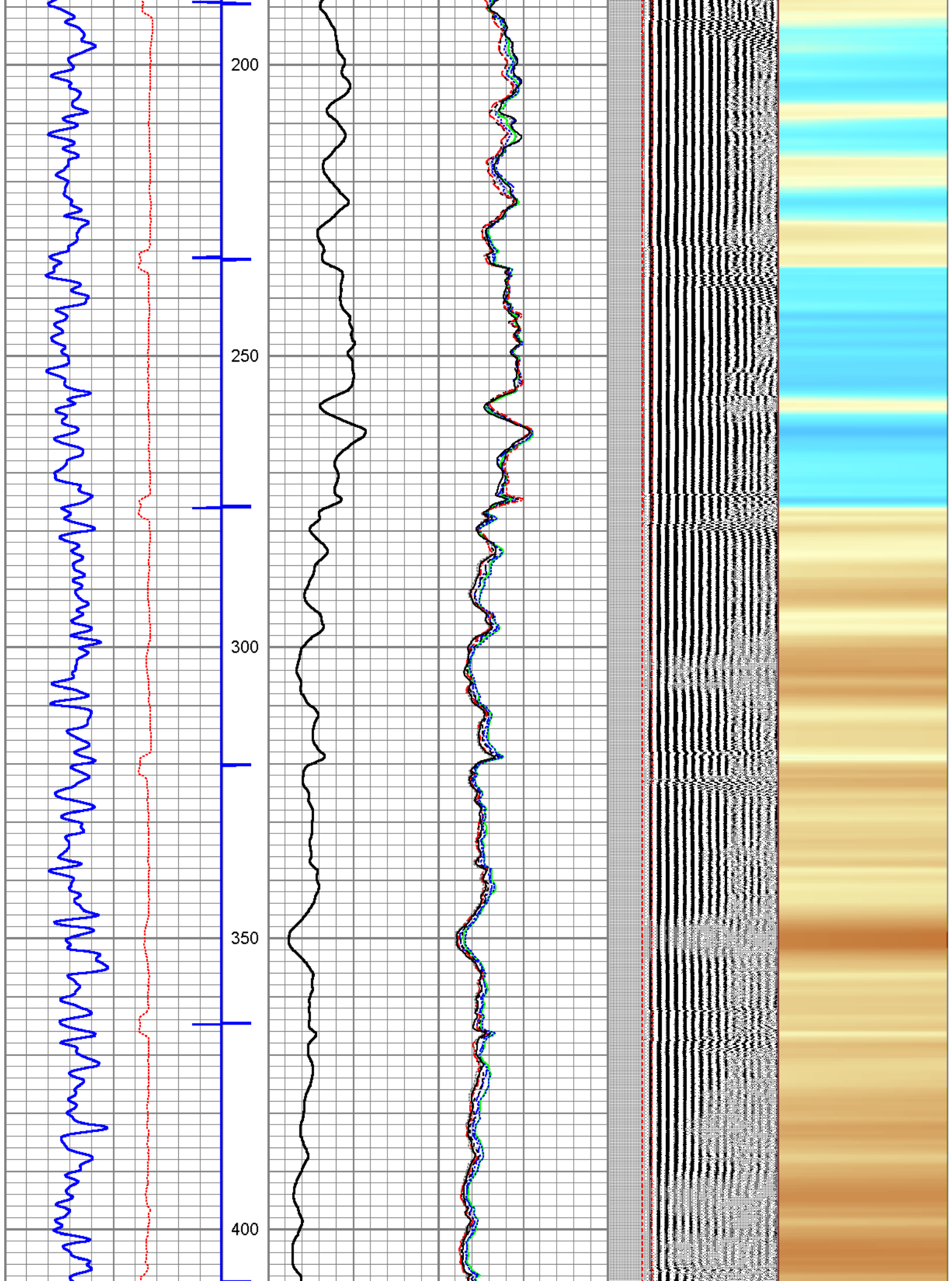
Comments

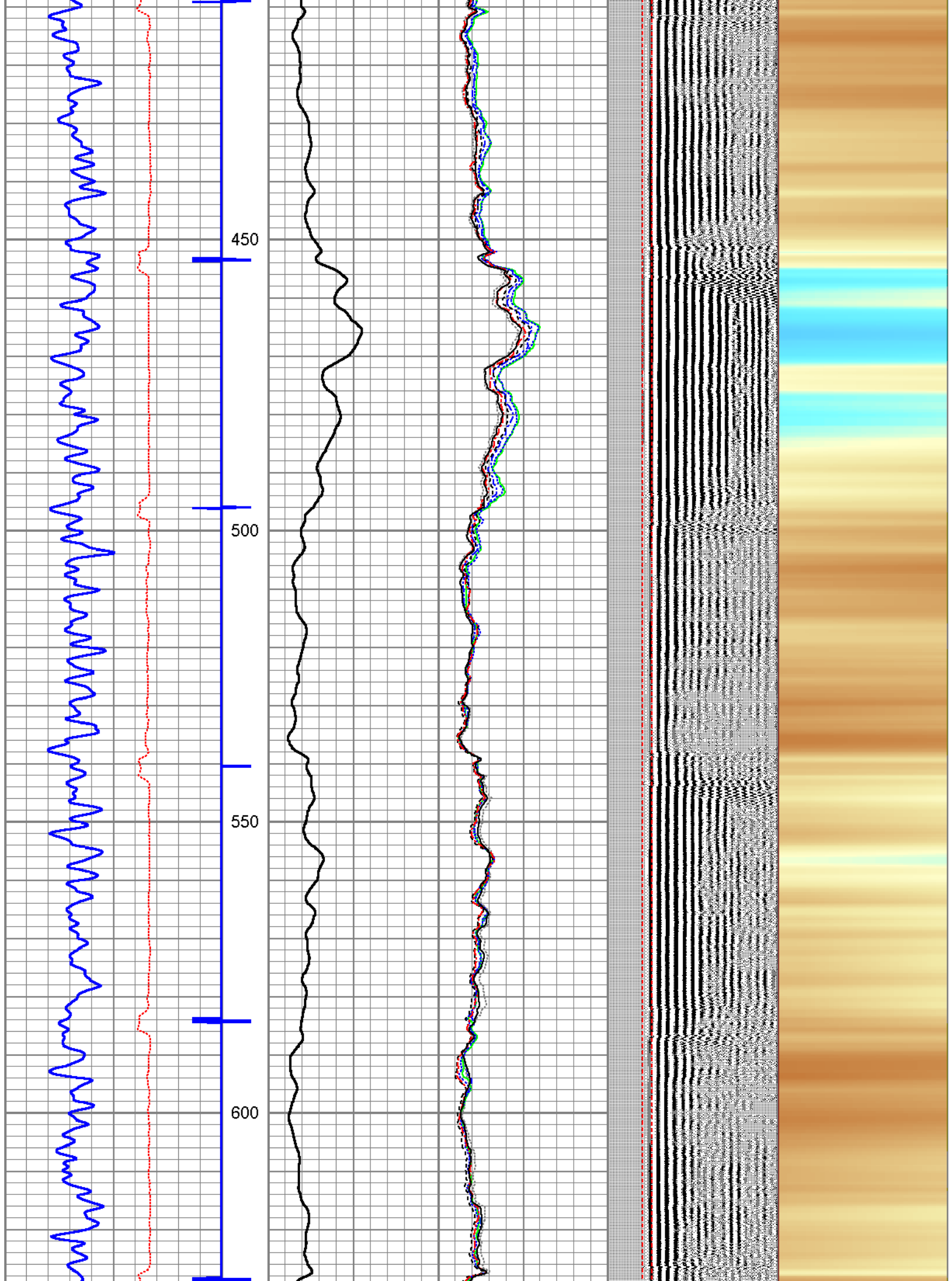
*****THANK YOU FOR CHOOSING CUTTERS WIRELINE*****
LOG WAS RAN WITH A 17' K.B.

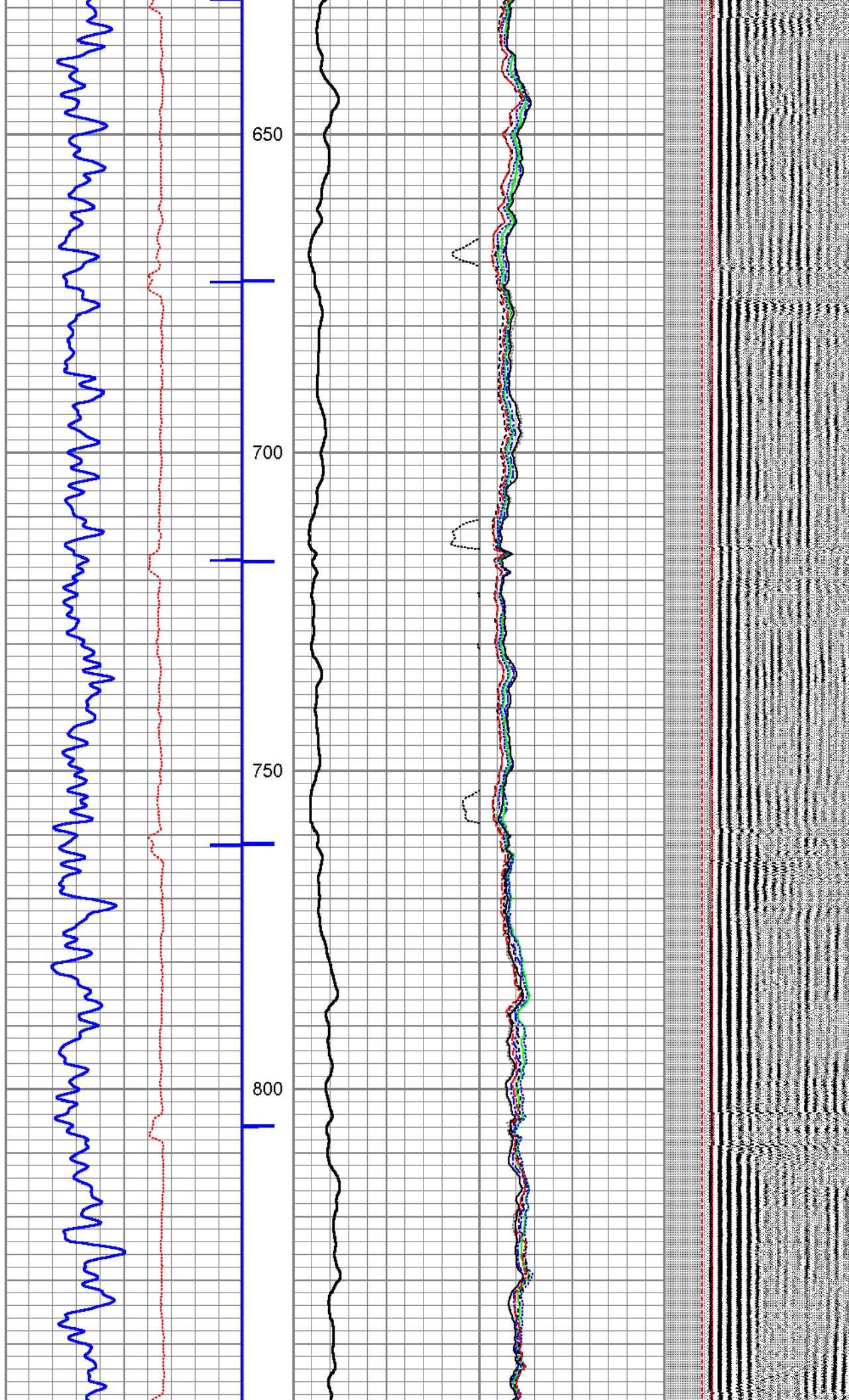
Database File: cub_creek_09.db
Dataset Pathname: markham_0/run1/pass4
Presentation Format: rbl55
Dataset Creation: Wed Oct 26 15:12:27 2016 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

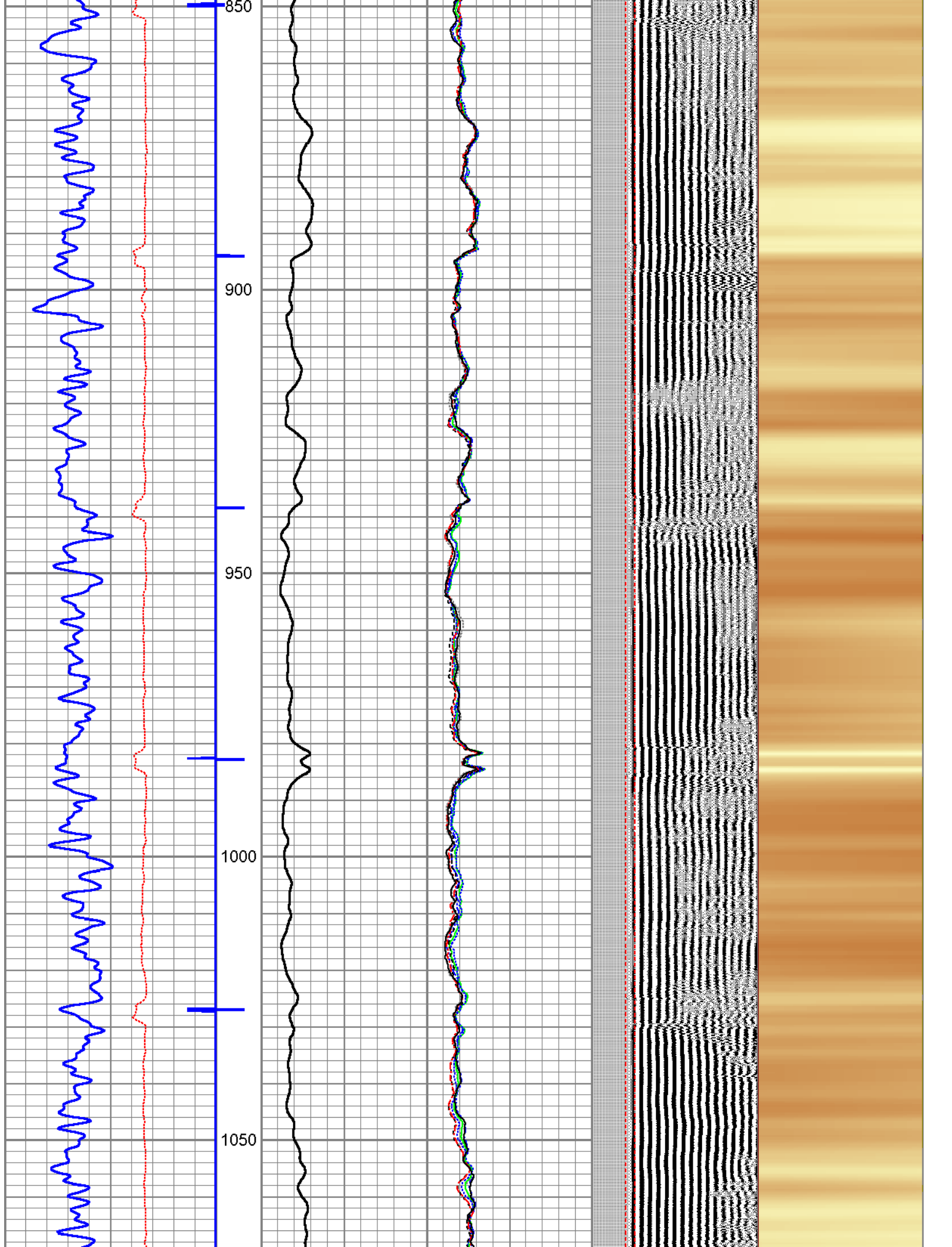
343	TT (usec)	243	Amplitude		-5	AMPS2	150	200	VDL	1200	Cement Map		
0	GR (GAPI)	200	0	(mV)	100	-5	AMPS3	150		1	80		
		CCL	Amplified Amplitude		-5	AMPS4	150	Free Pipe Gate					
			0	(mV)	10	-5	AMPS5	150					
						-5	AMPS6	150					
						-5	AMPS7	150					
						-5	AMPS8	150					
						-5	AMPS1	150					

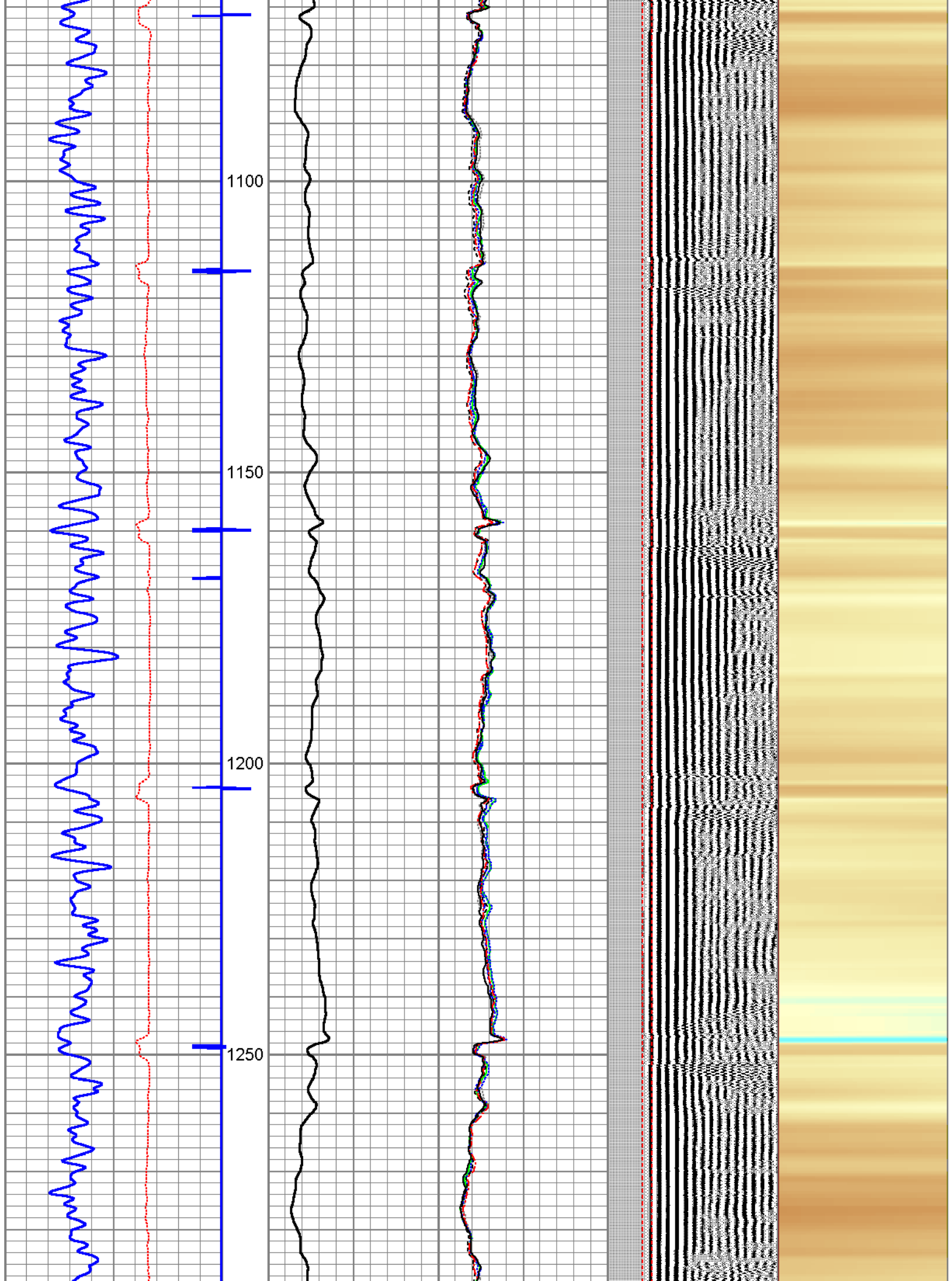


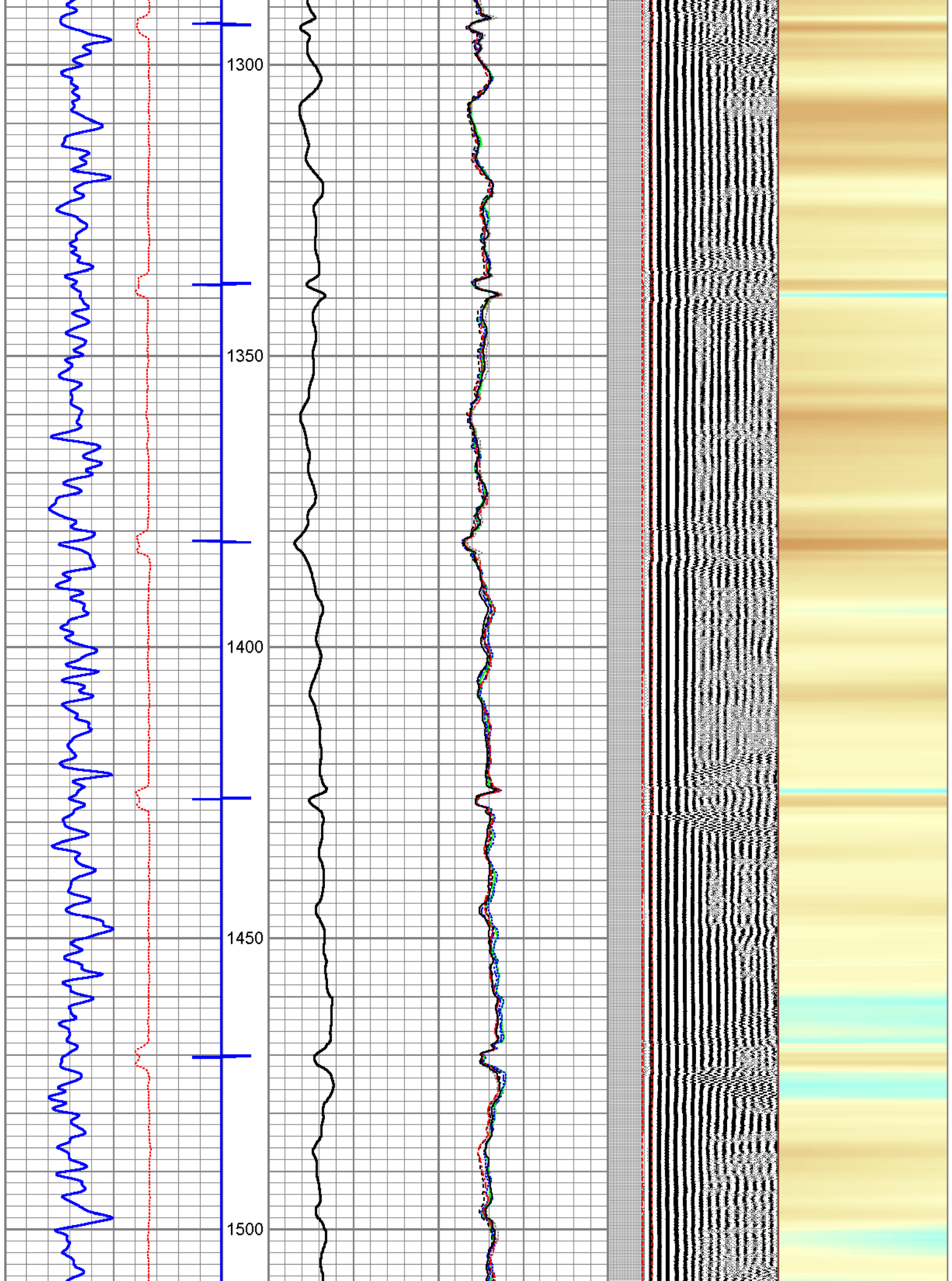


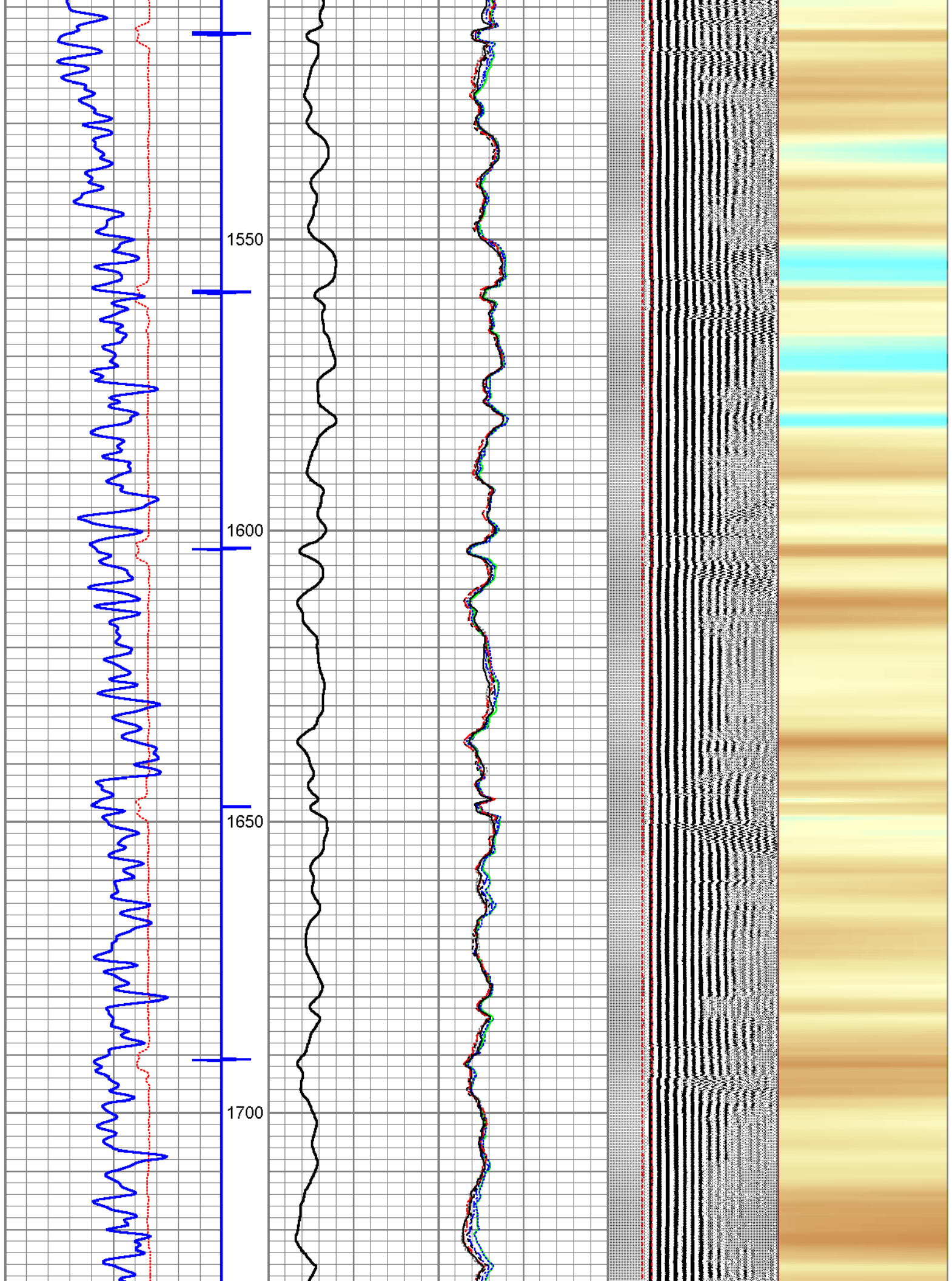


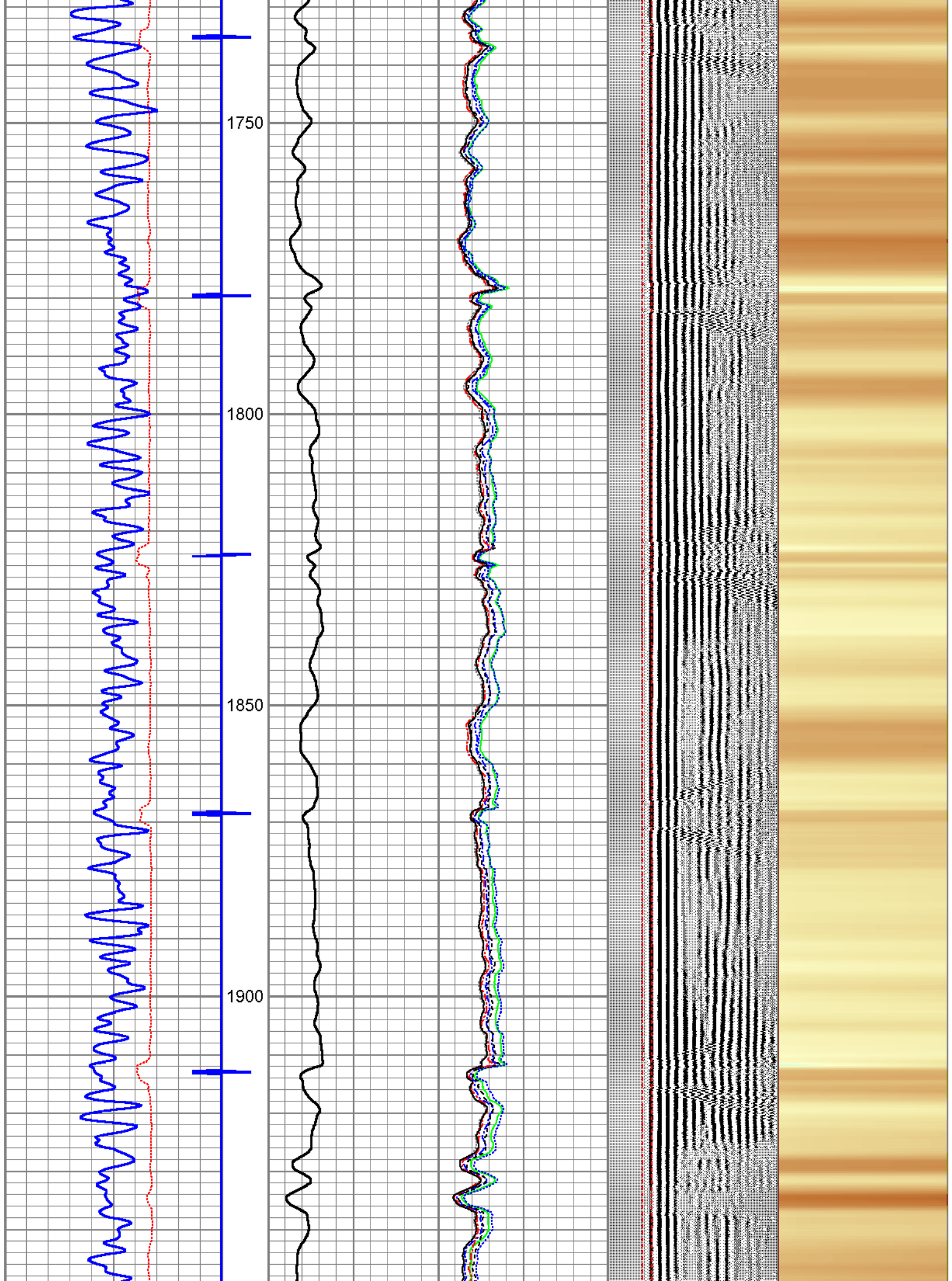


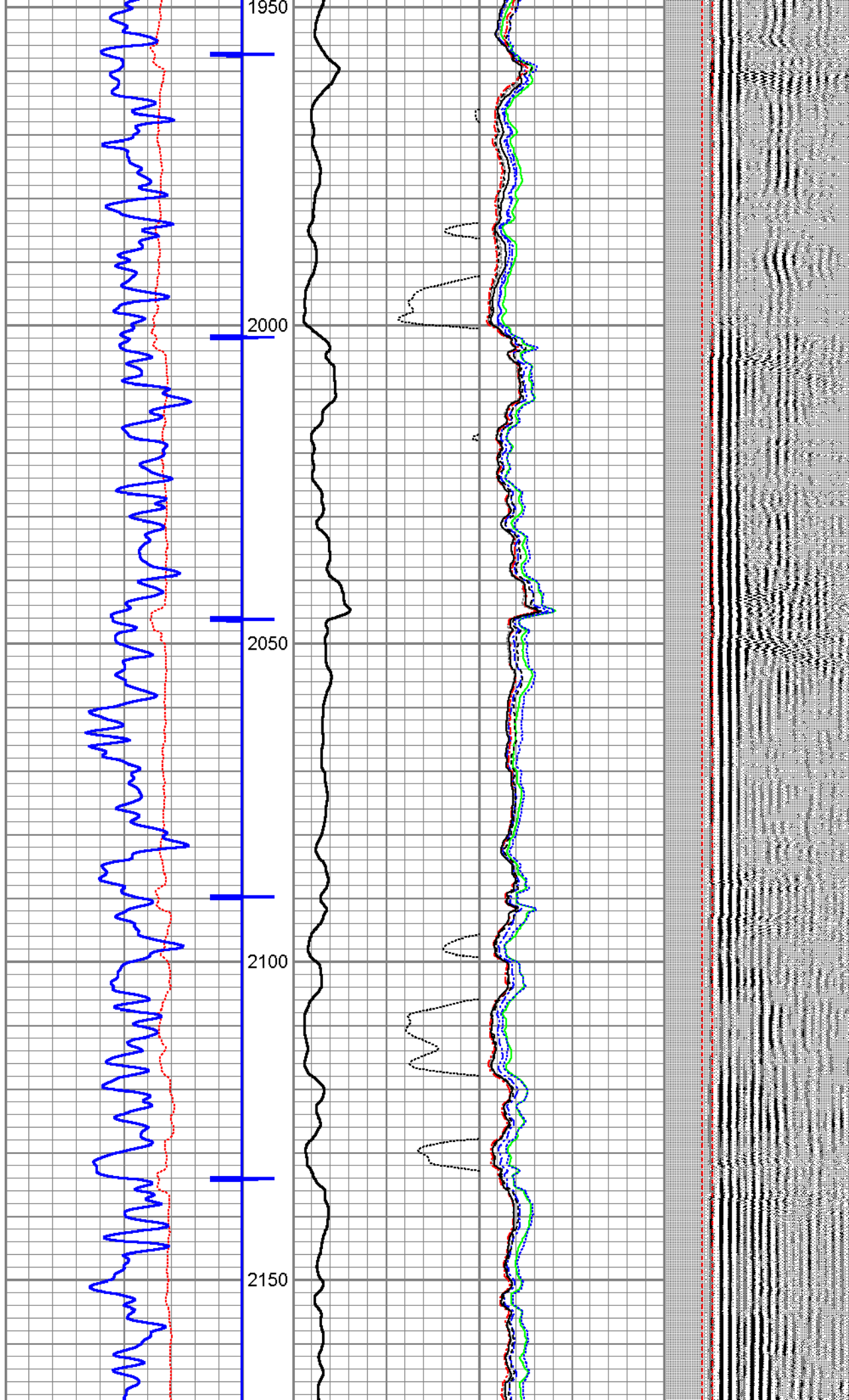


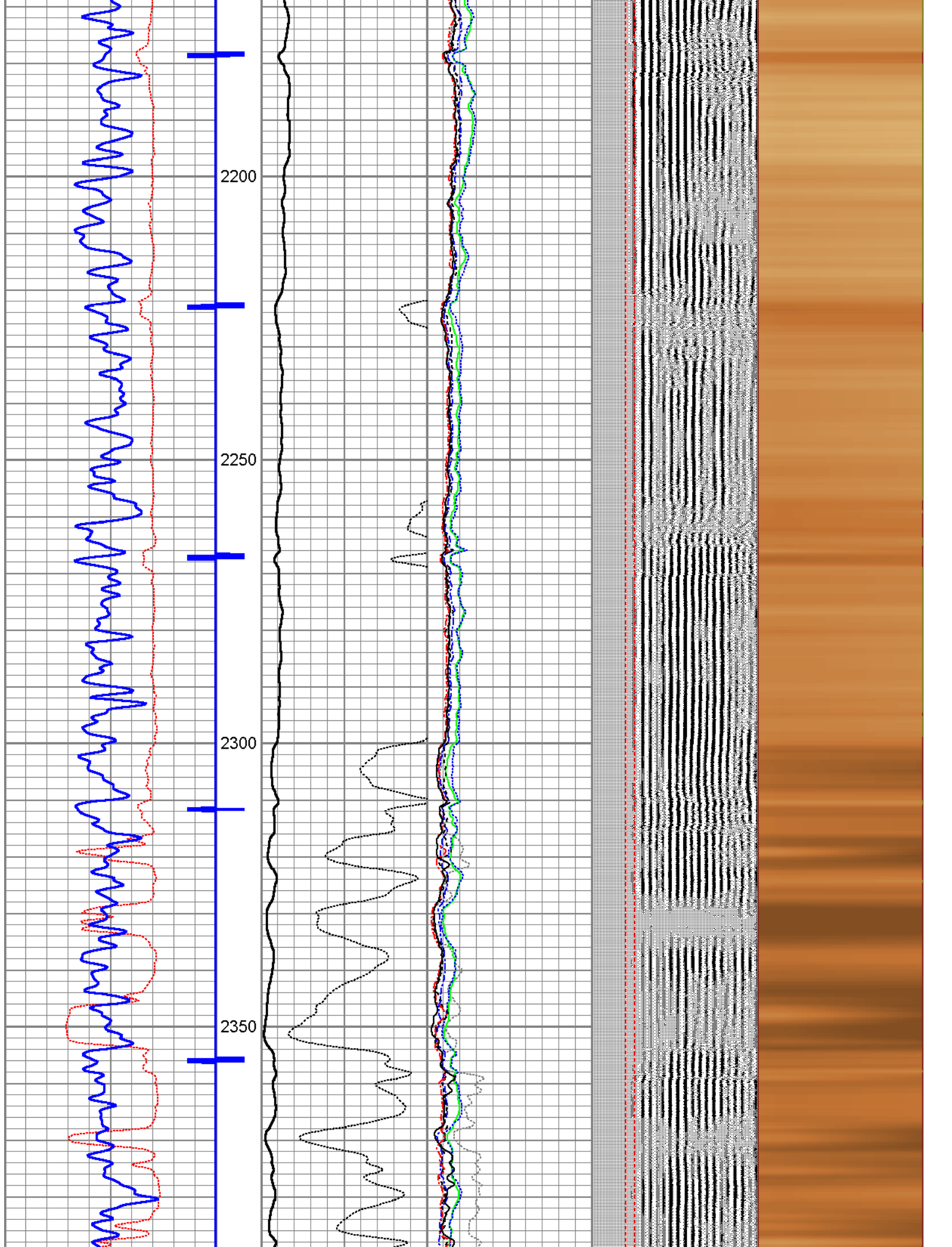


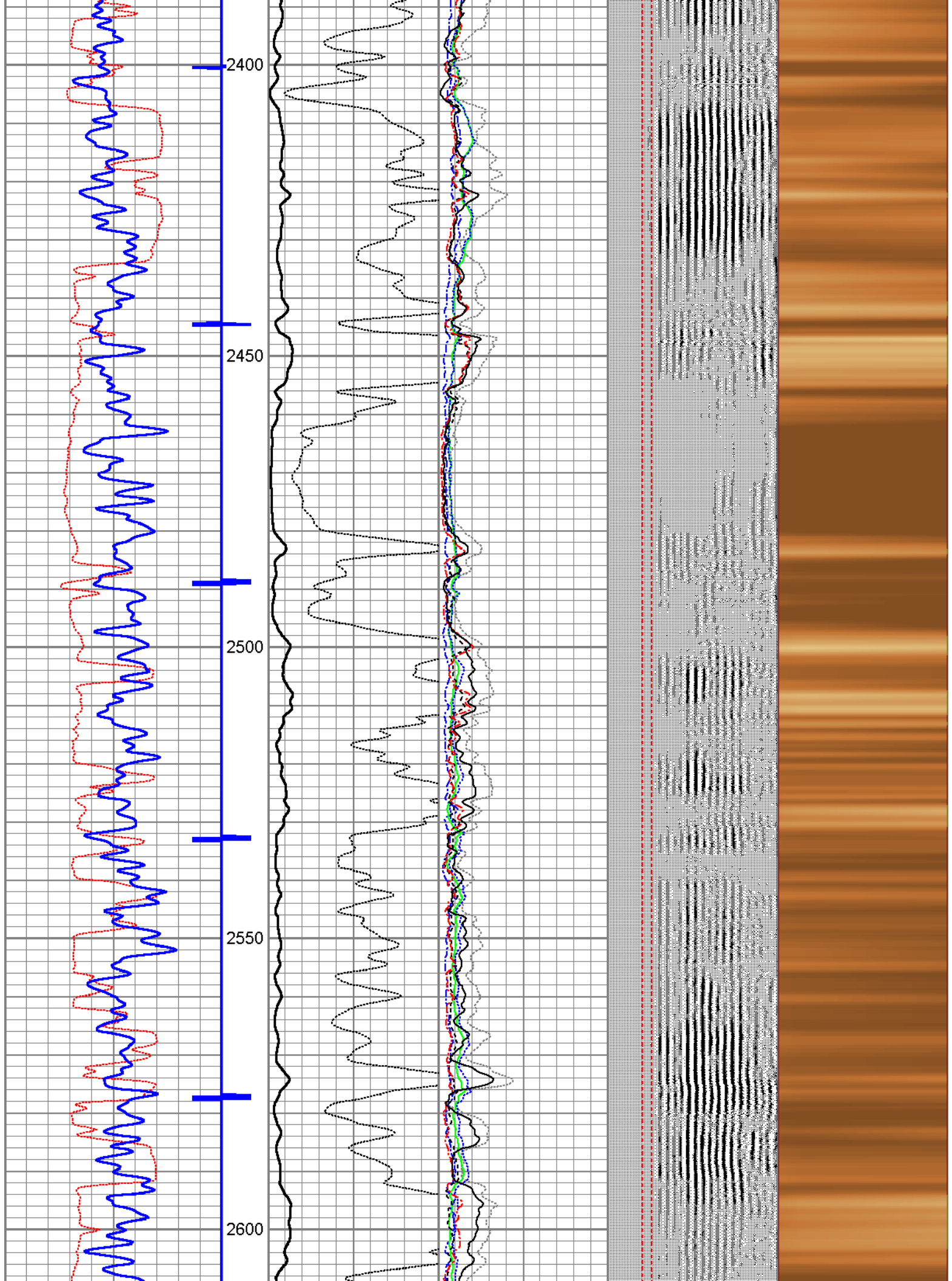


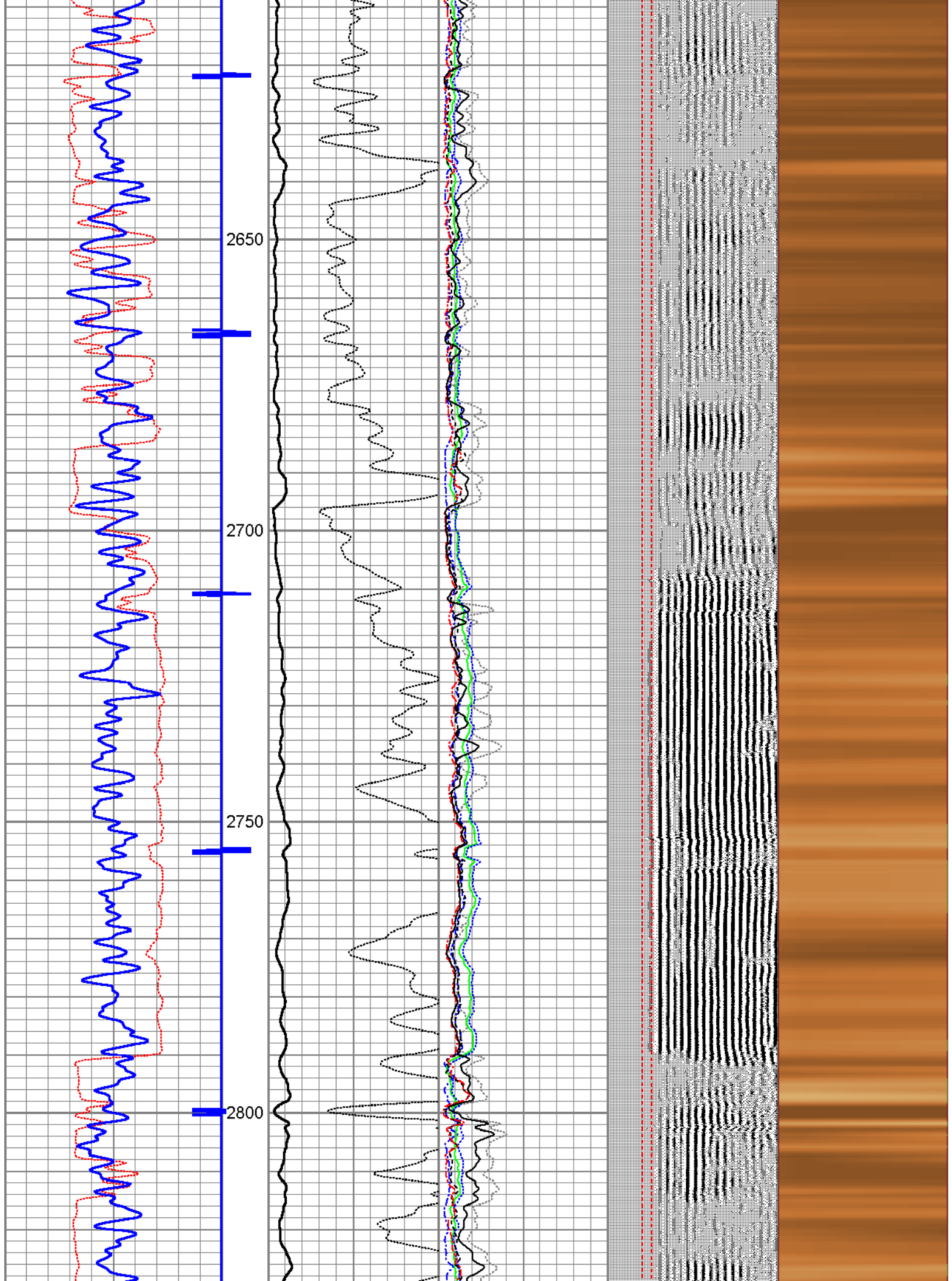


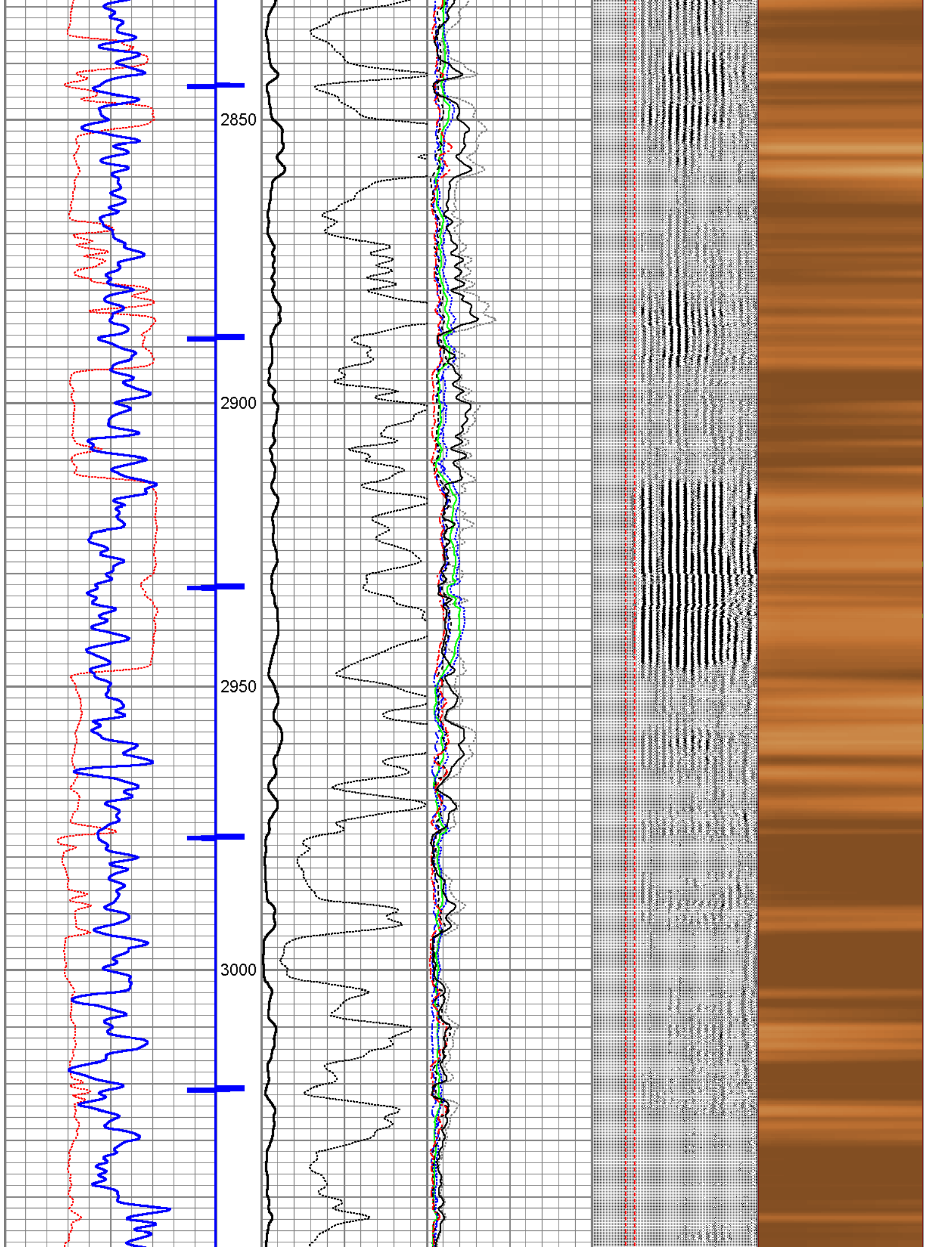


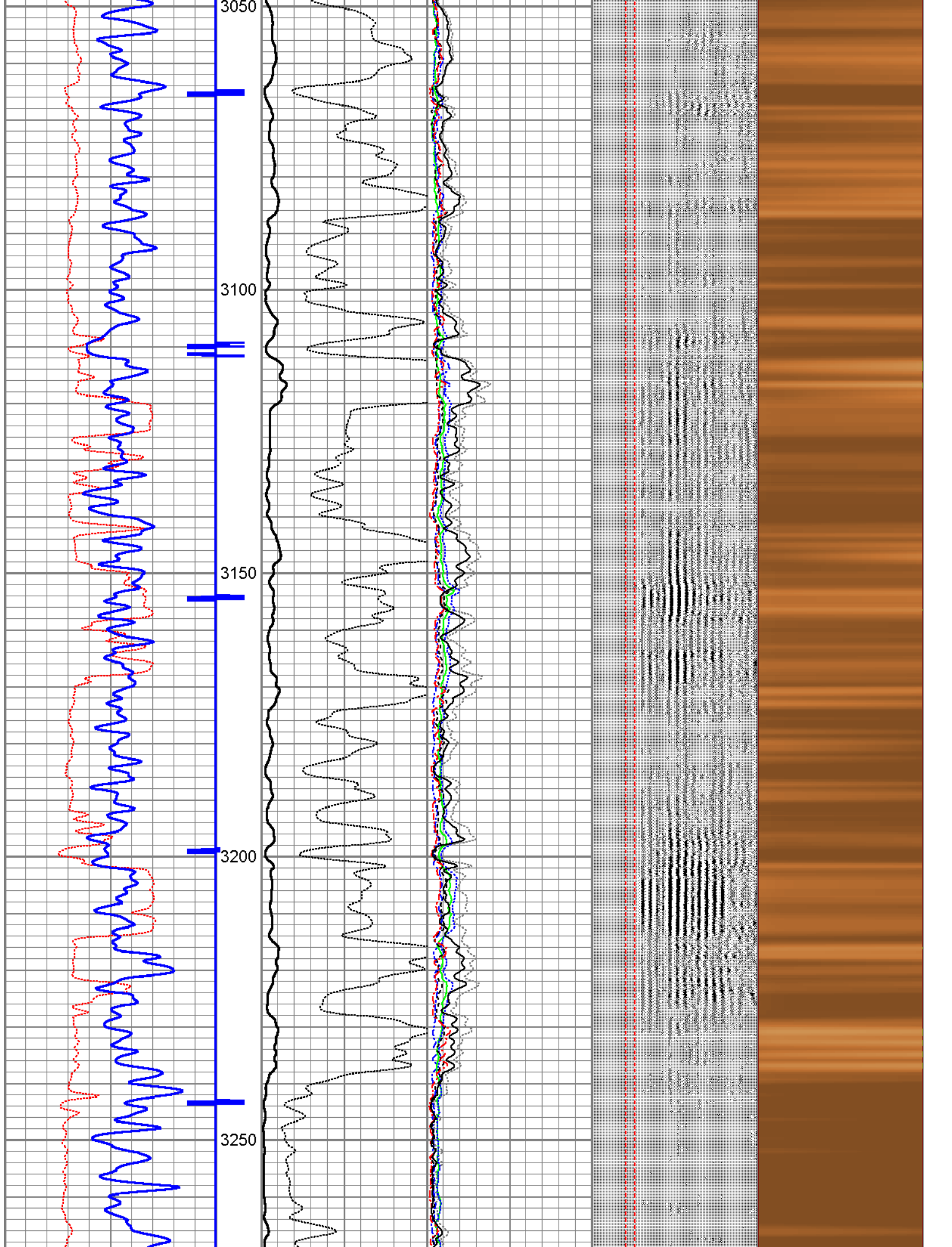


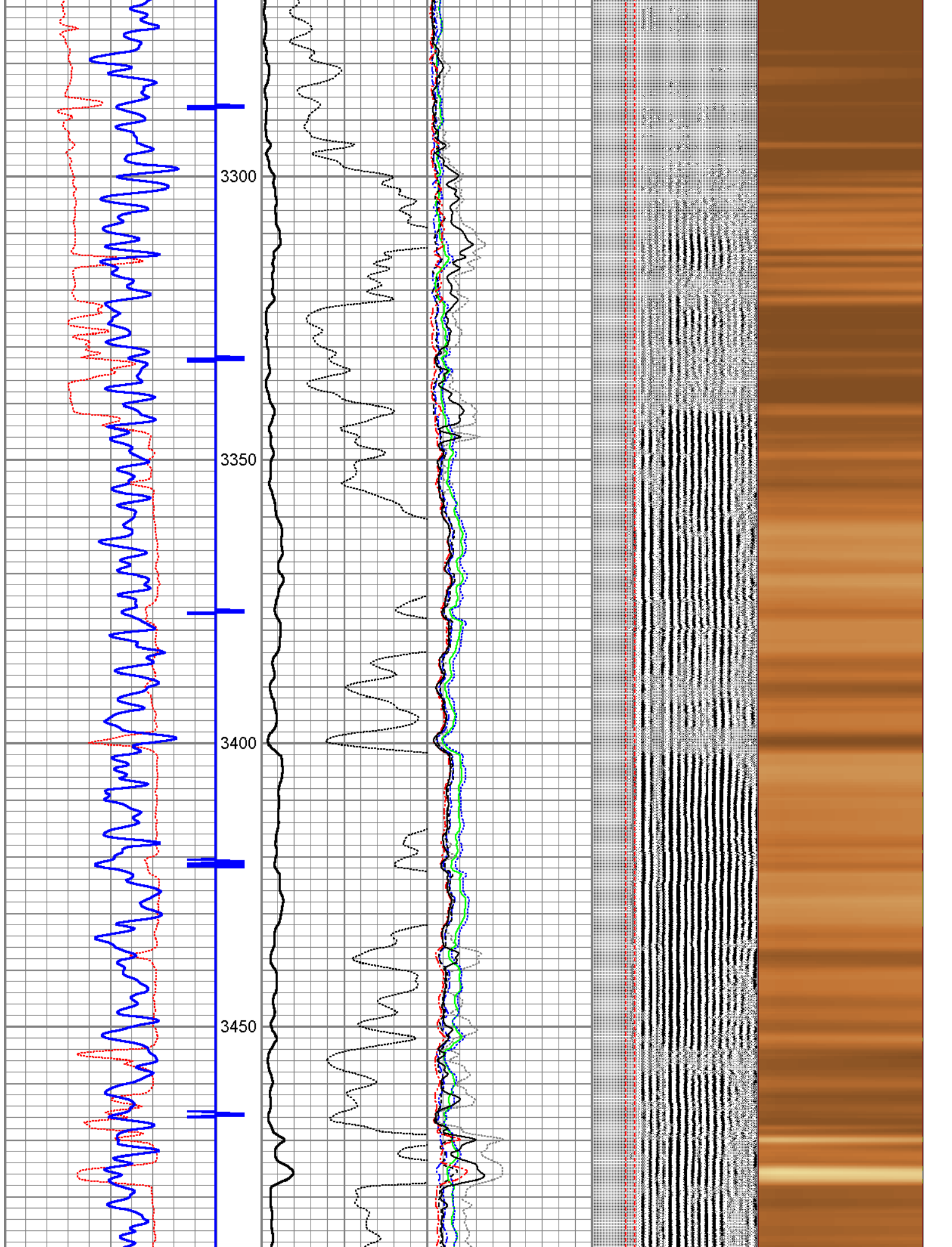


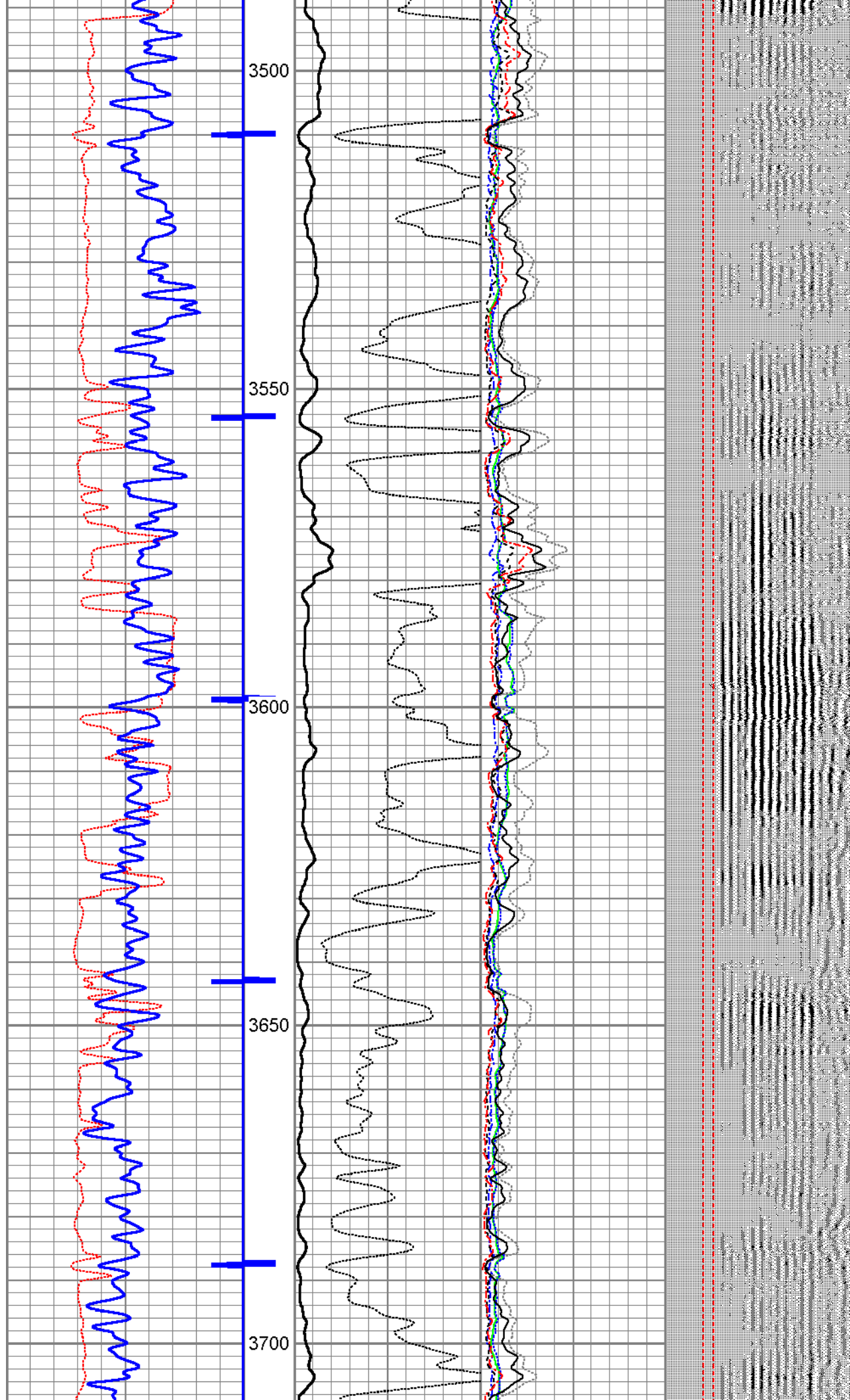


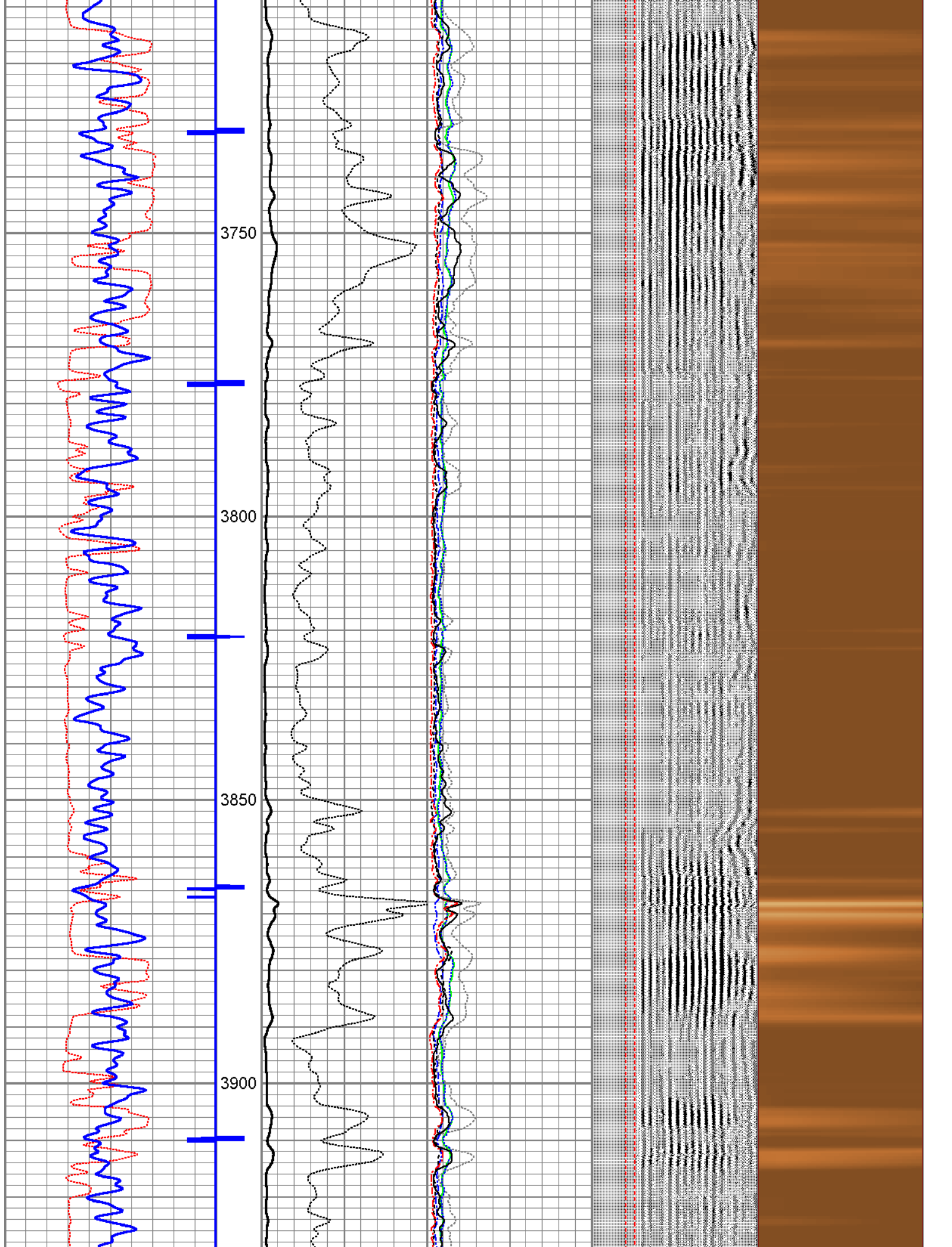


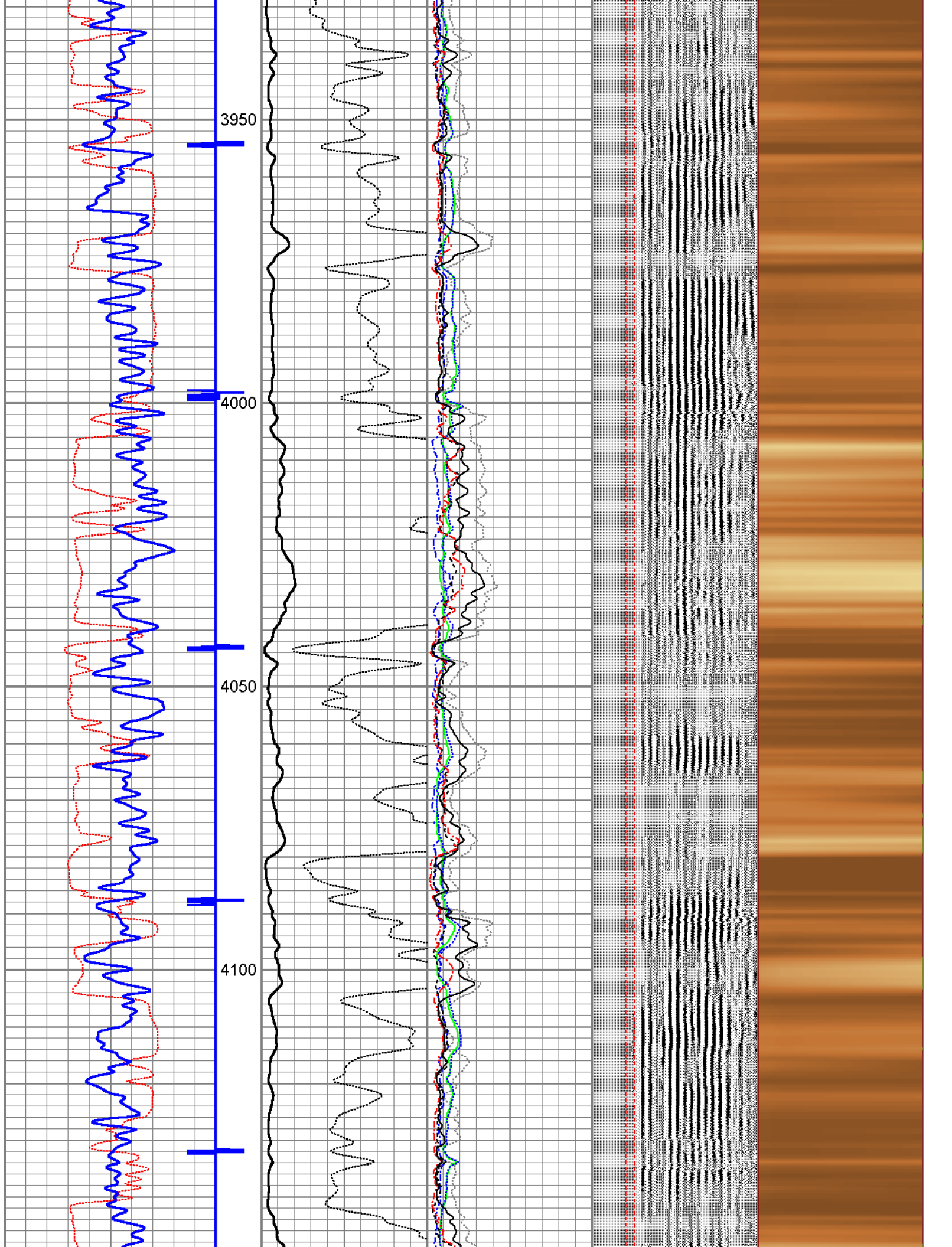


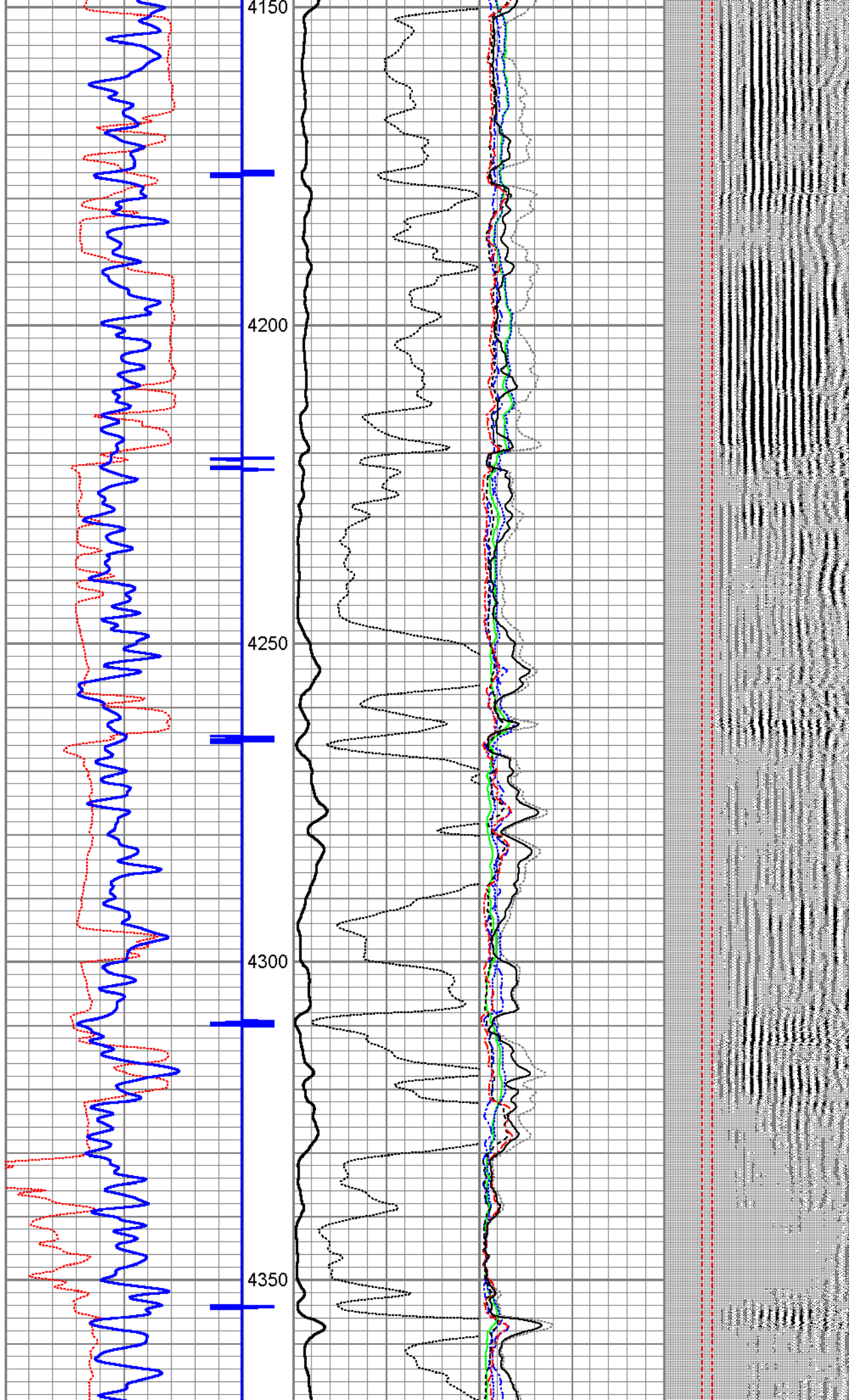


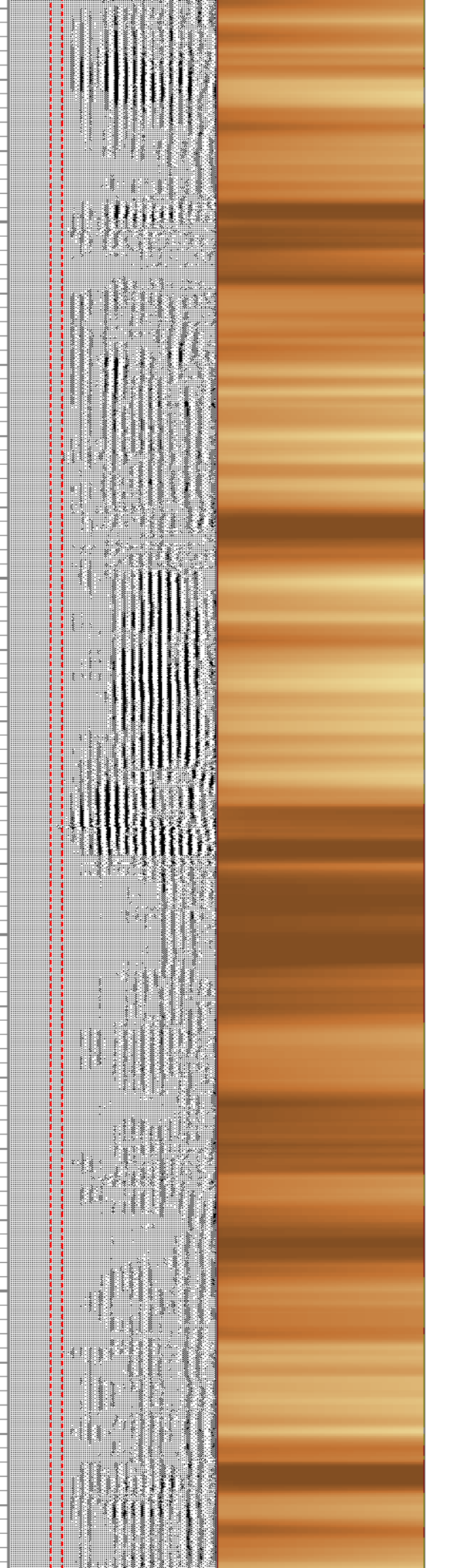
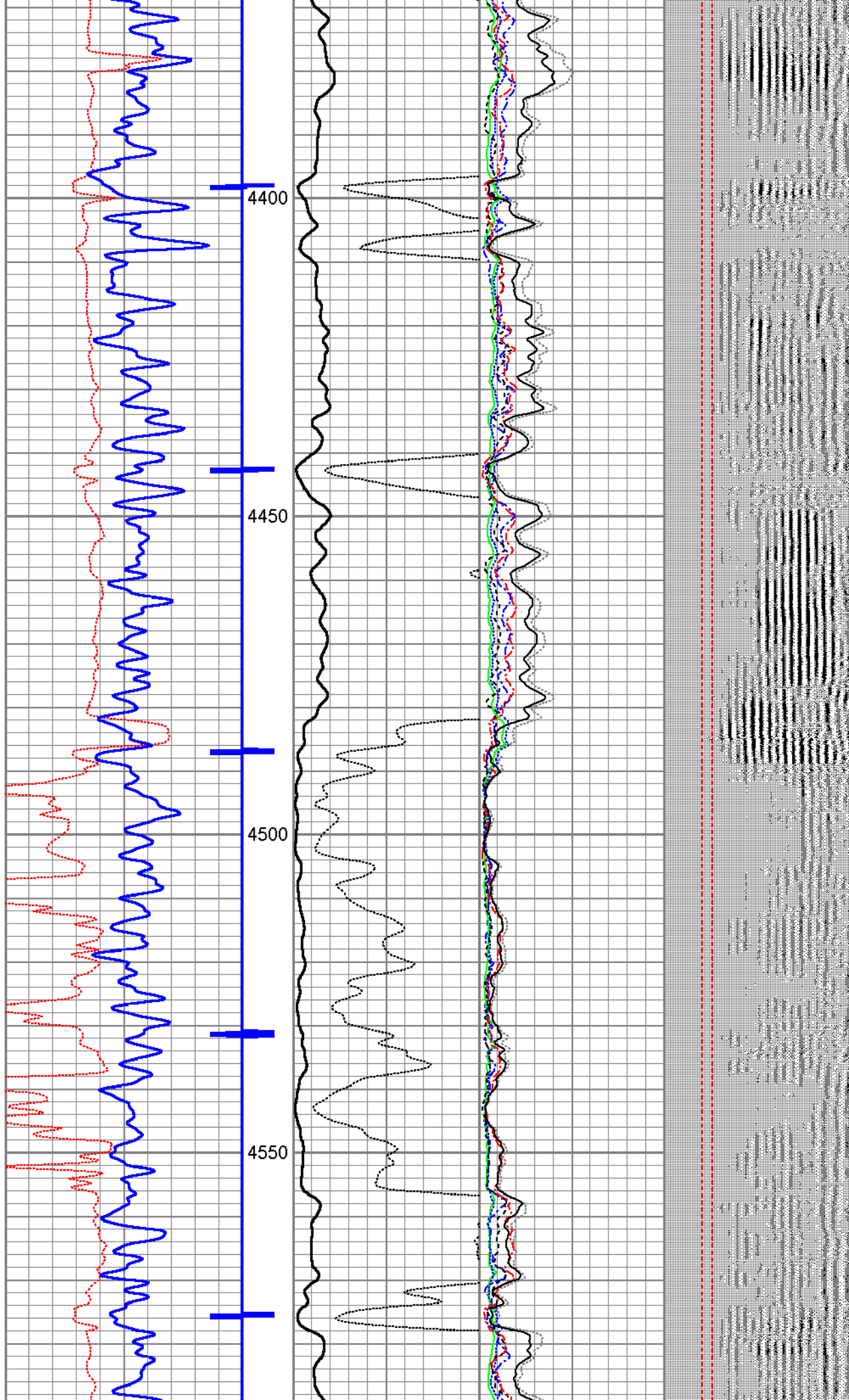


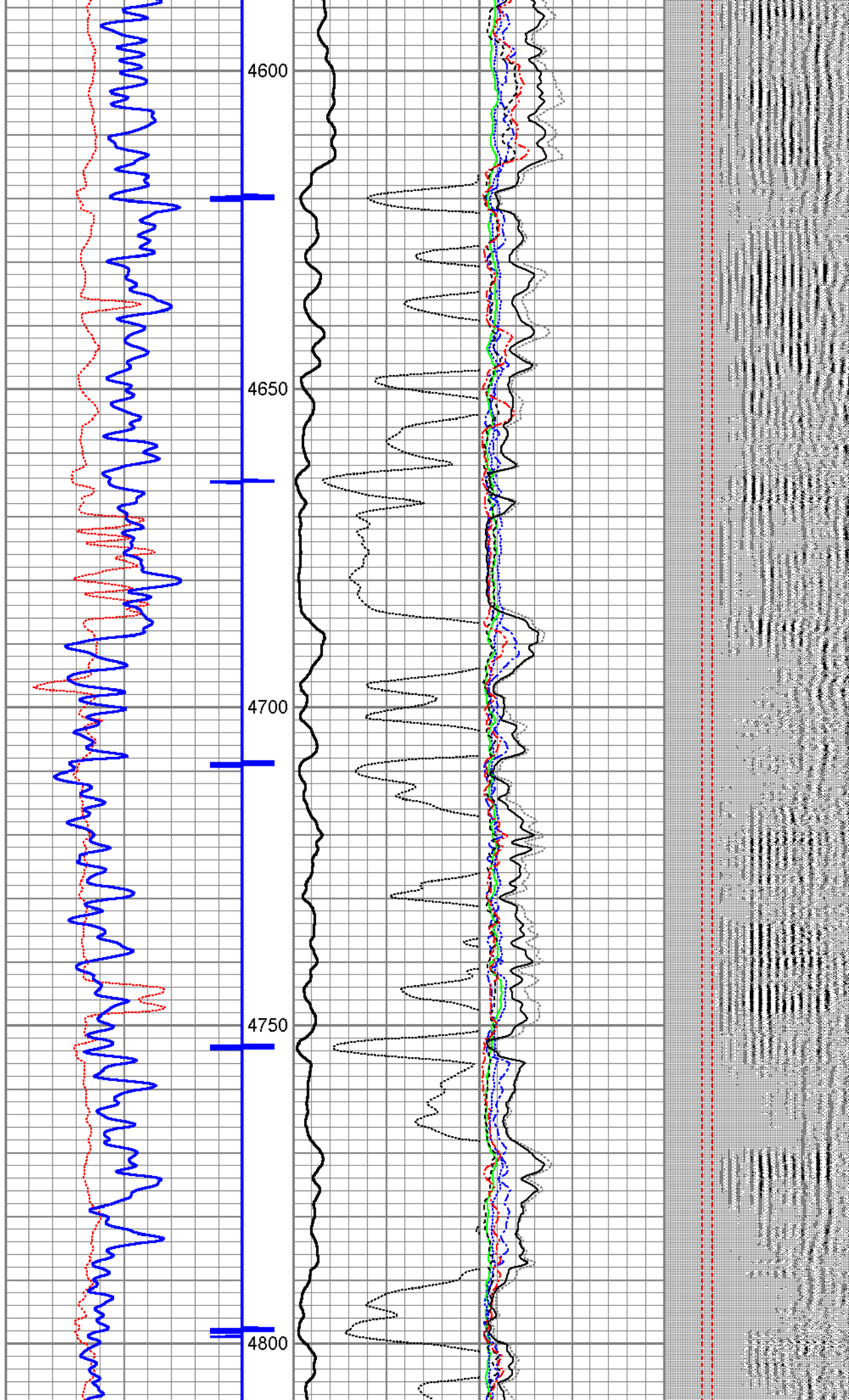


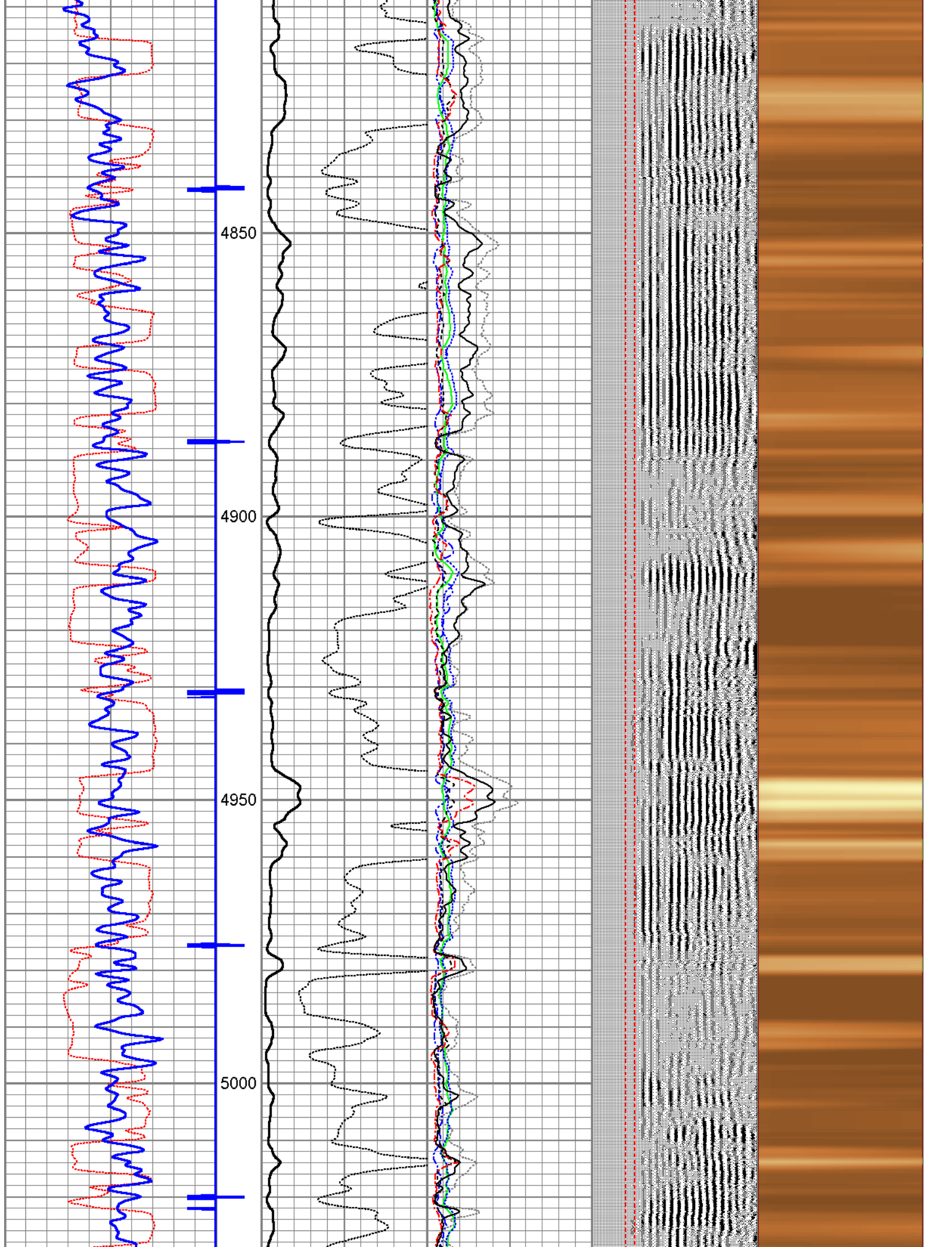


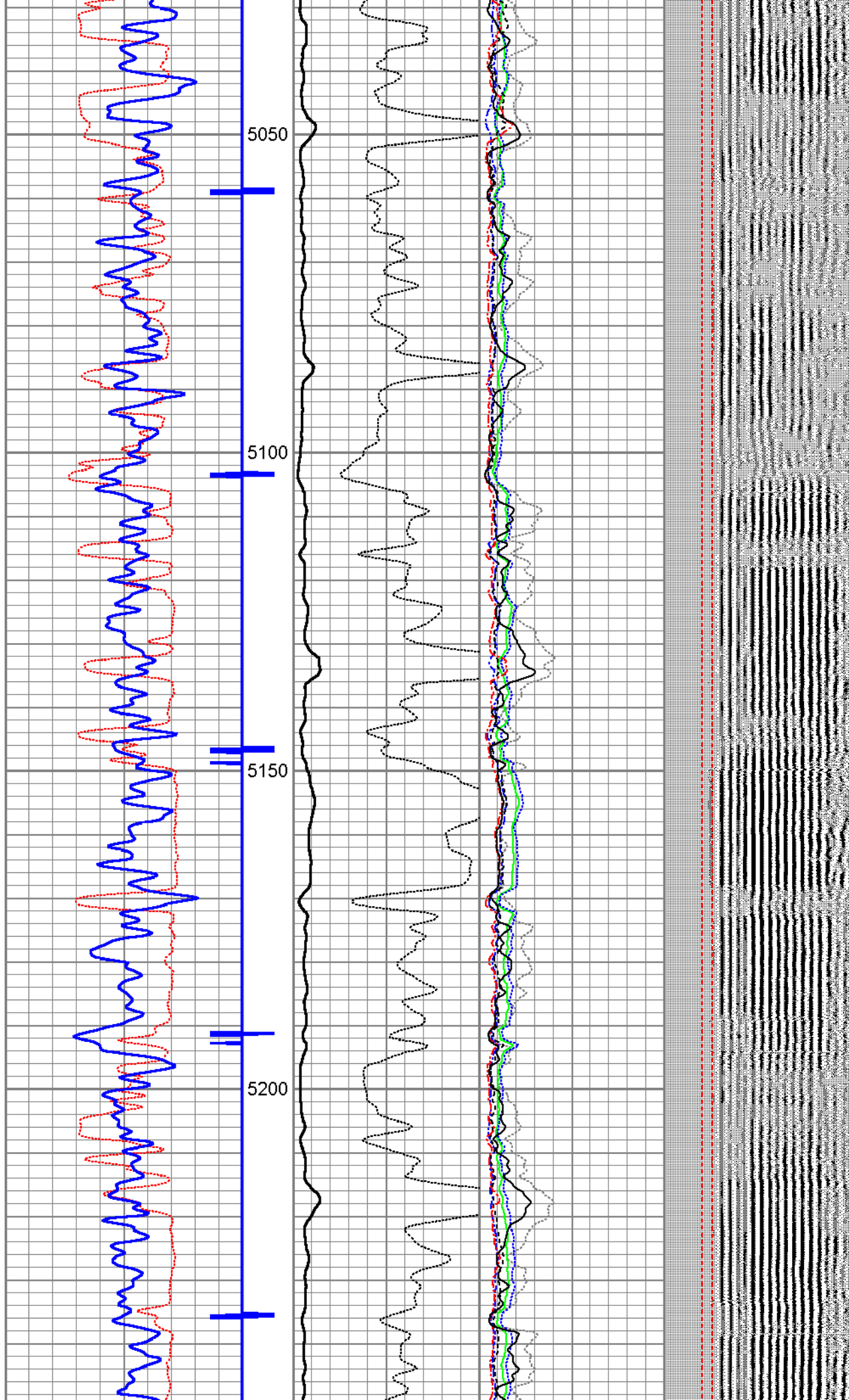


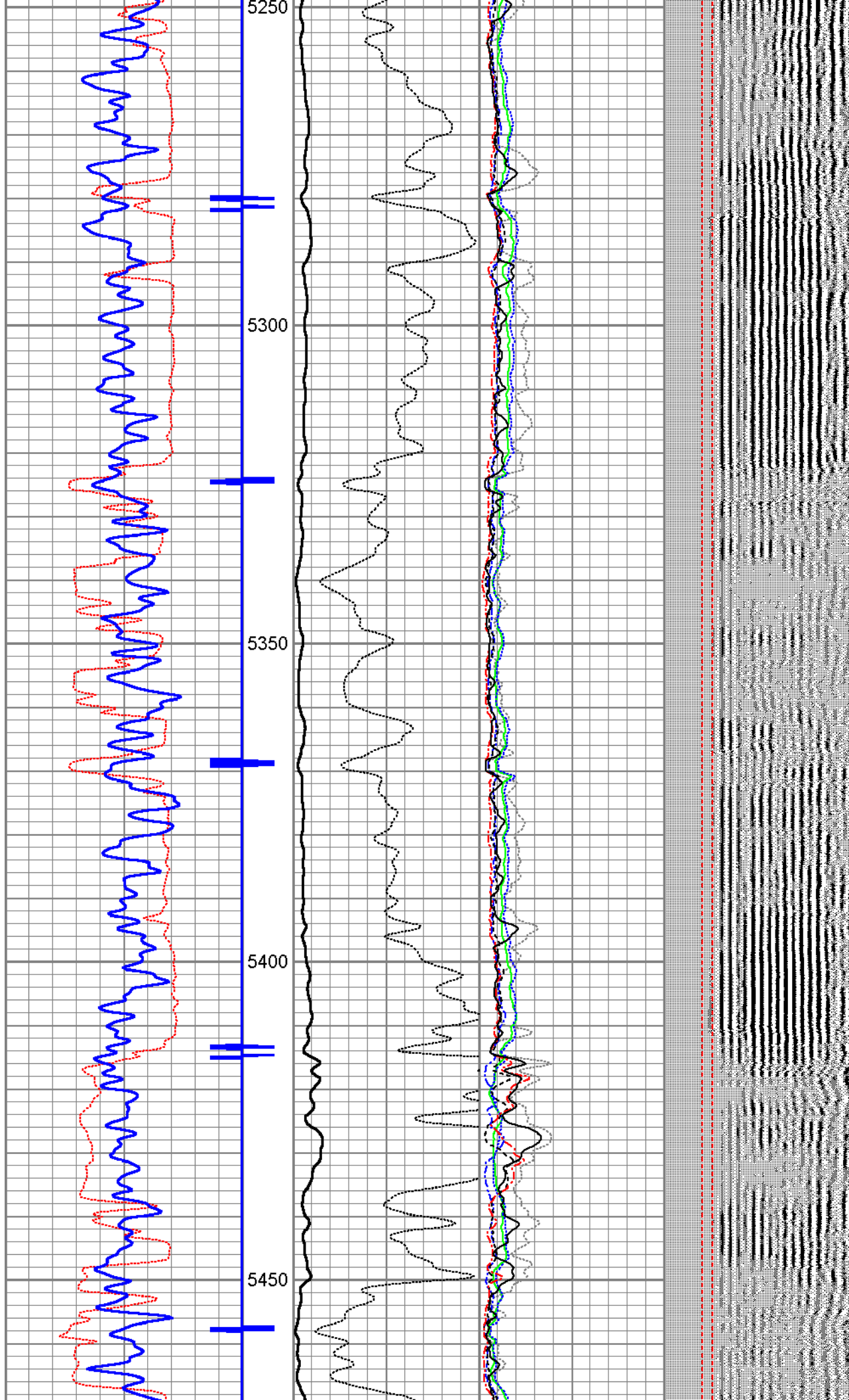


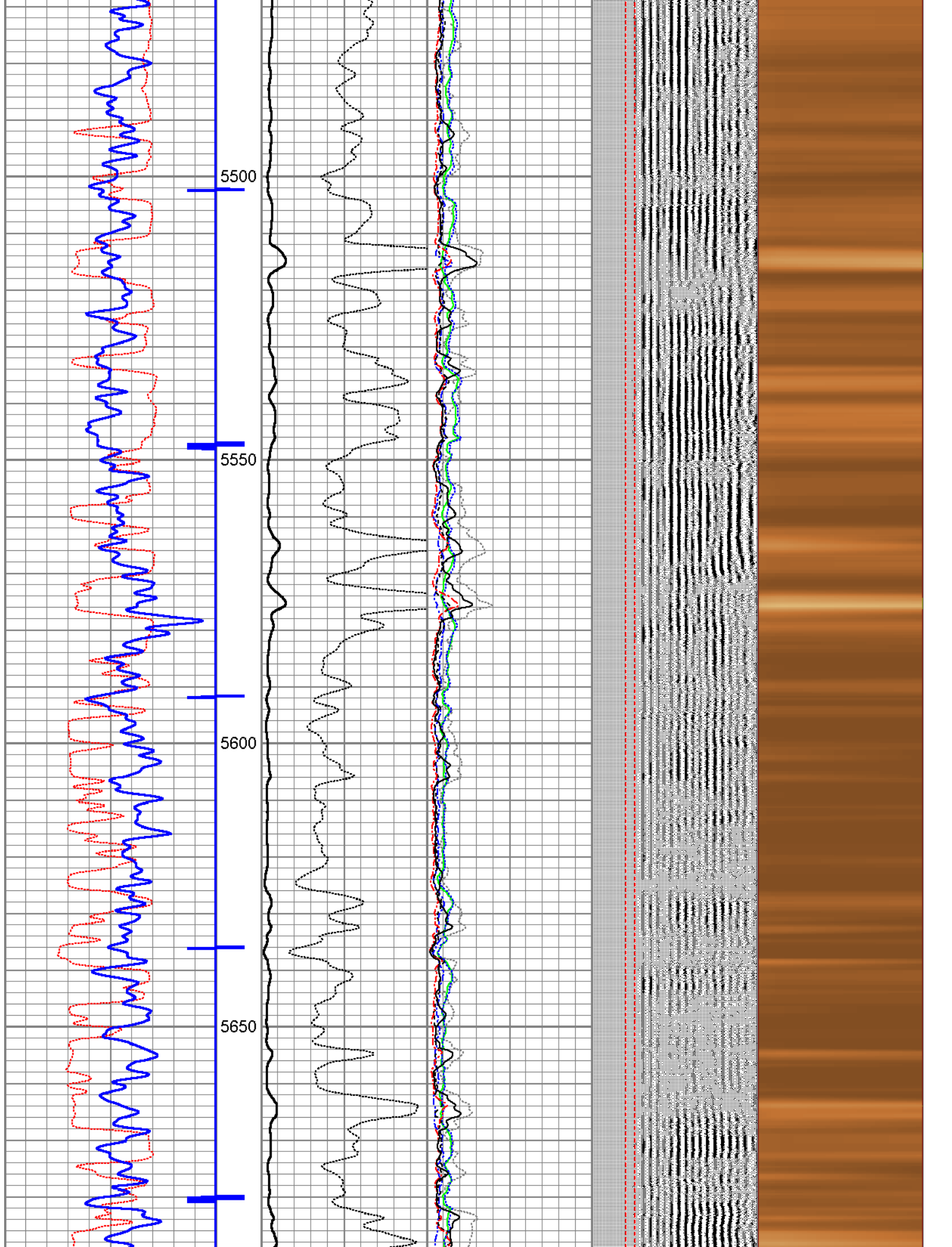


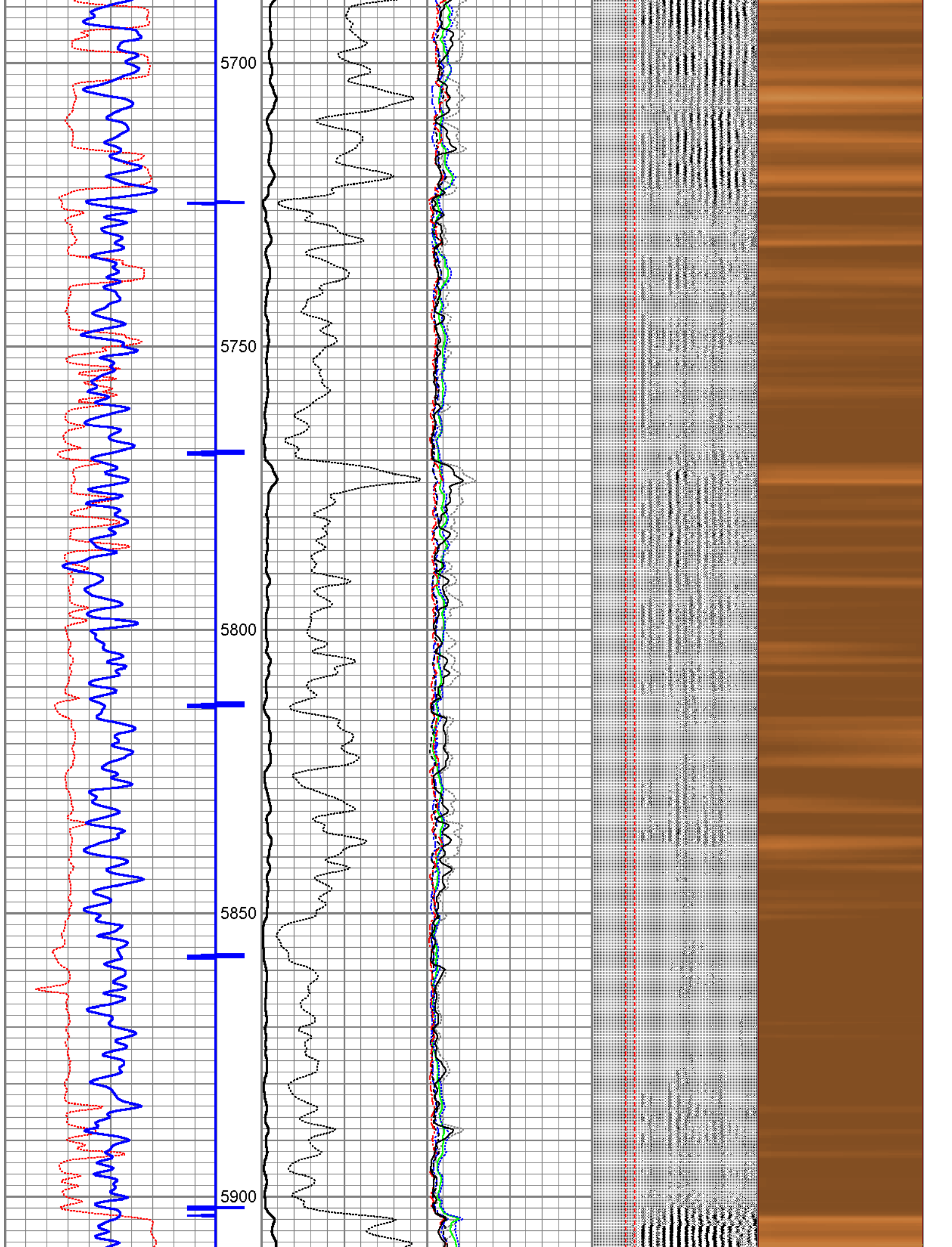


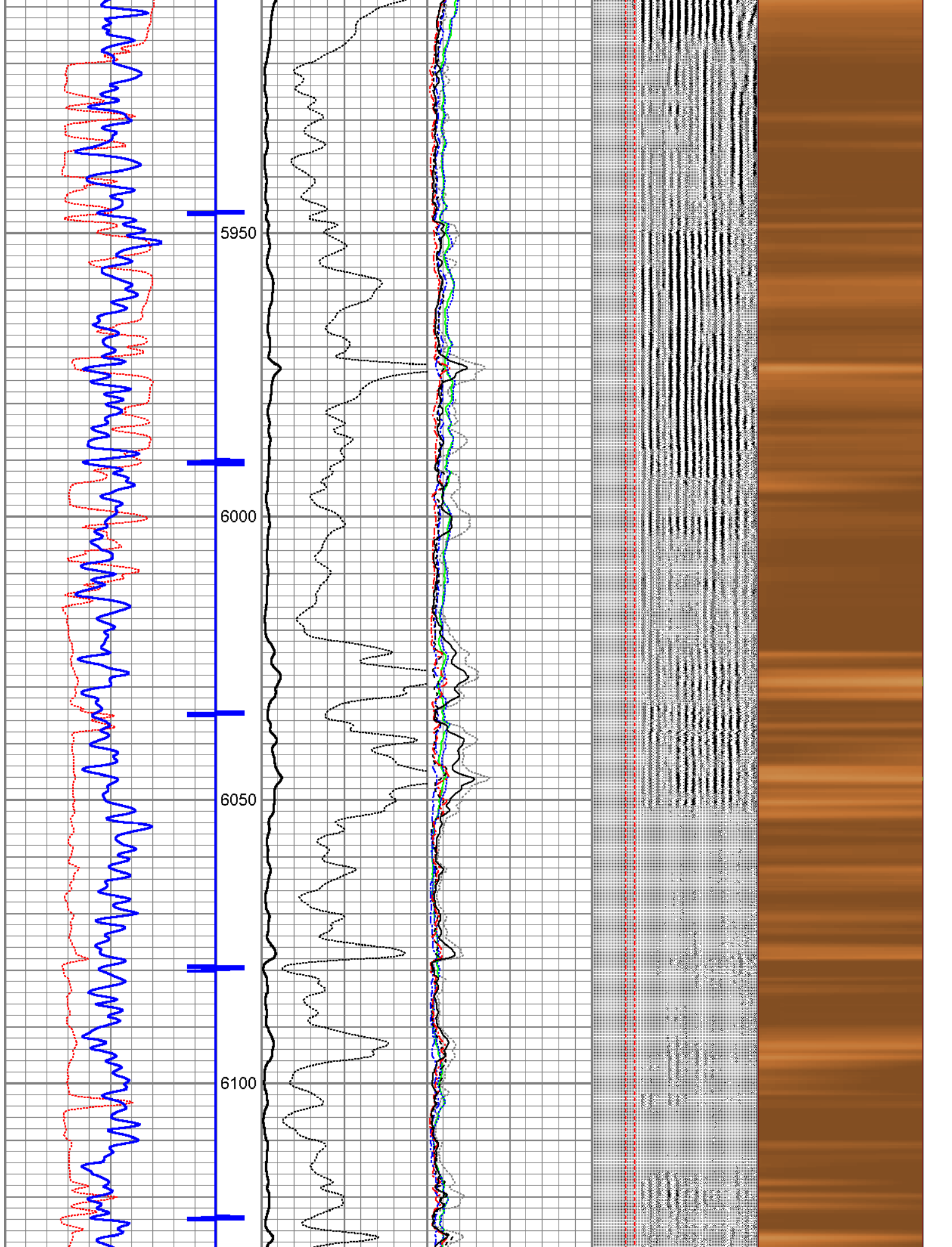


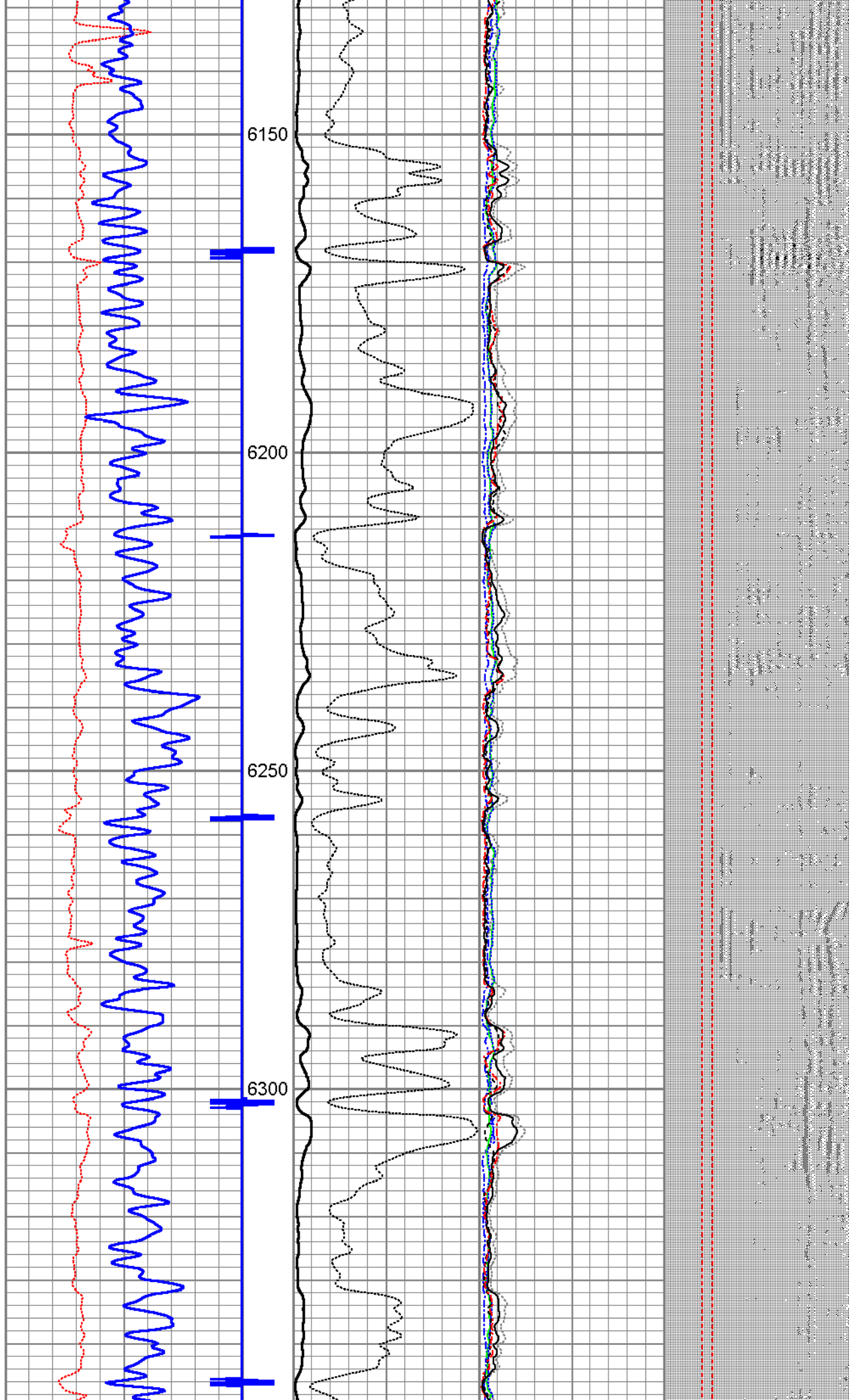


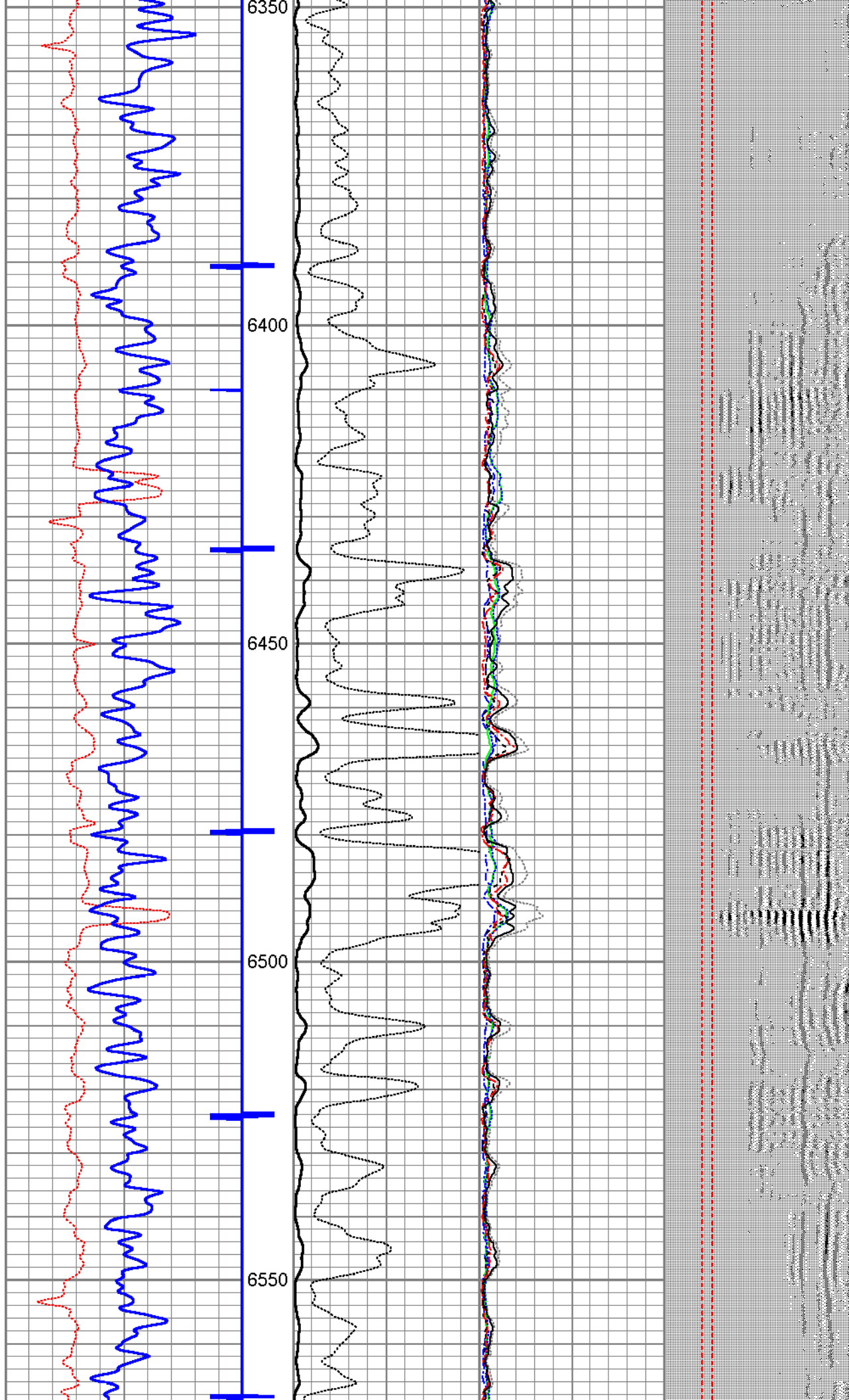


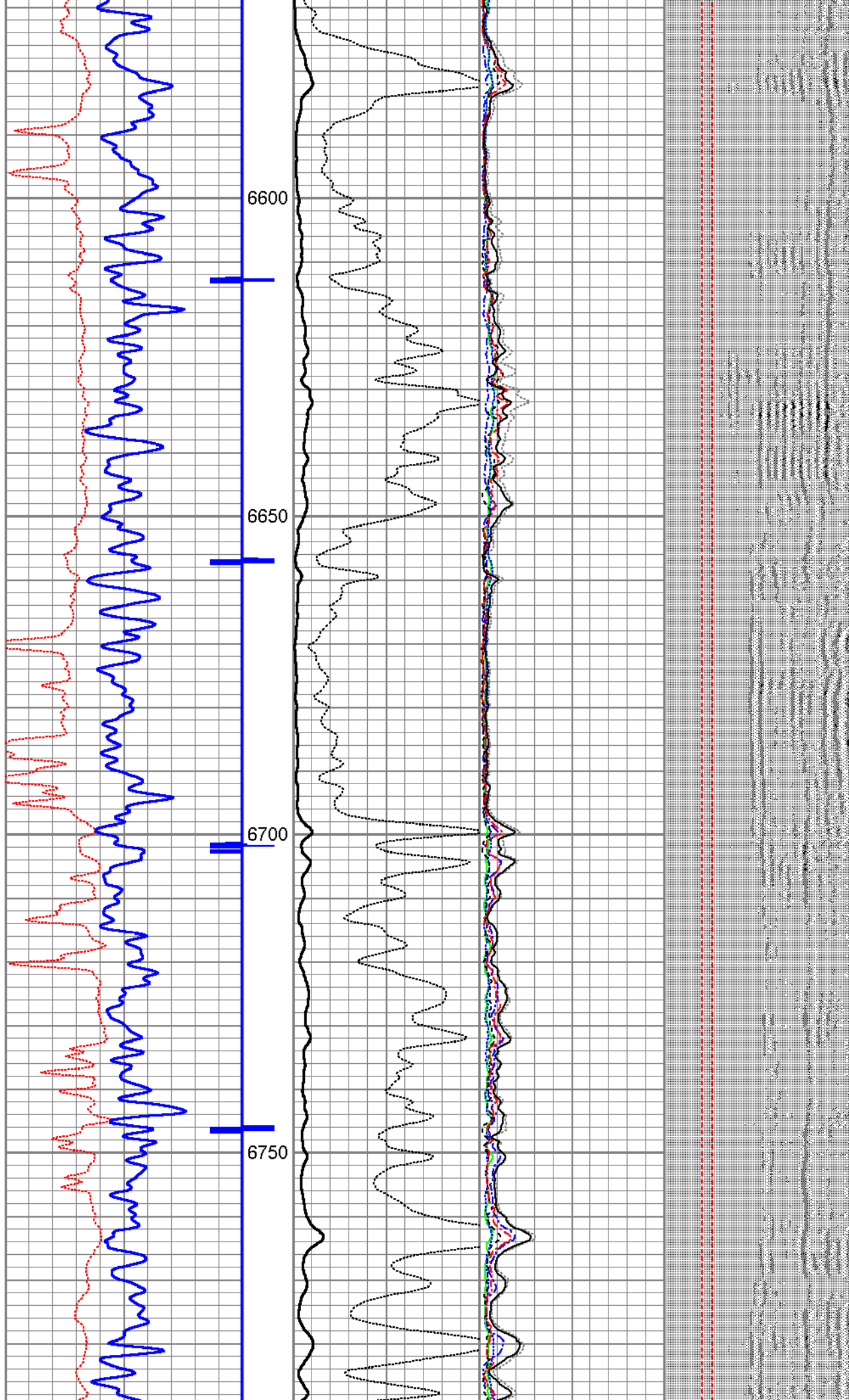


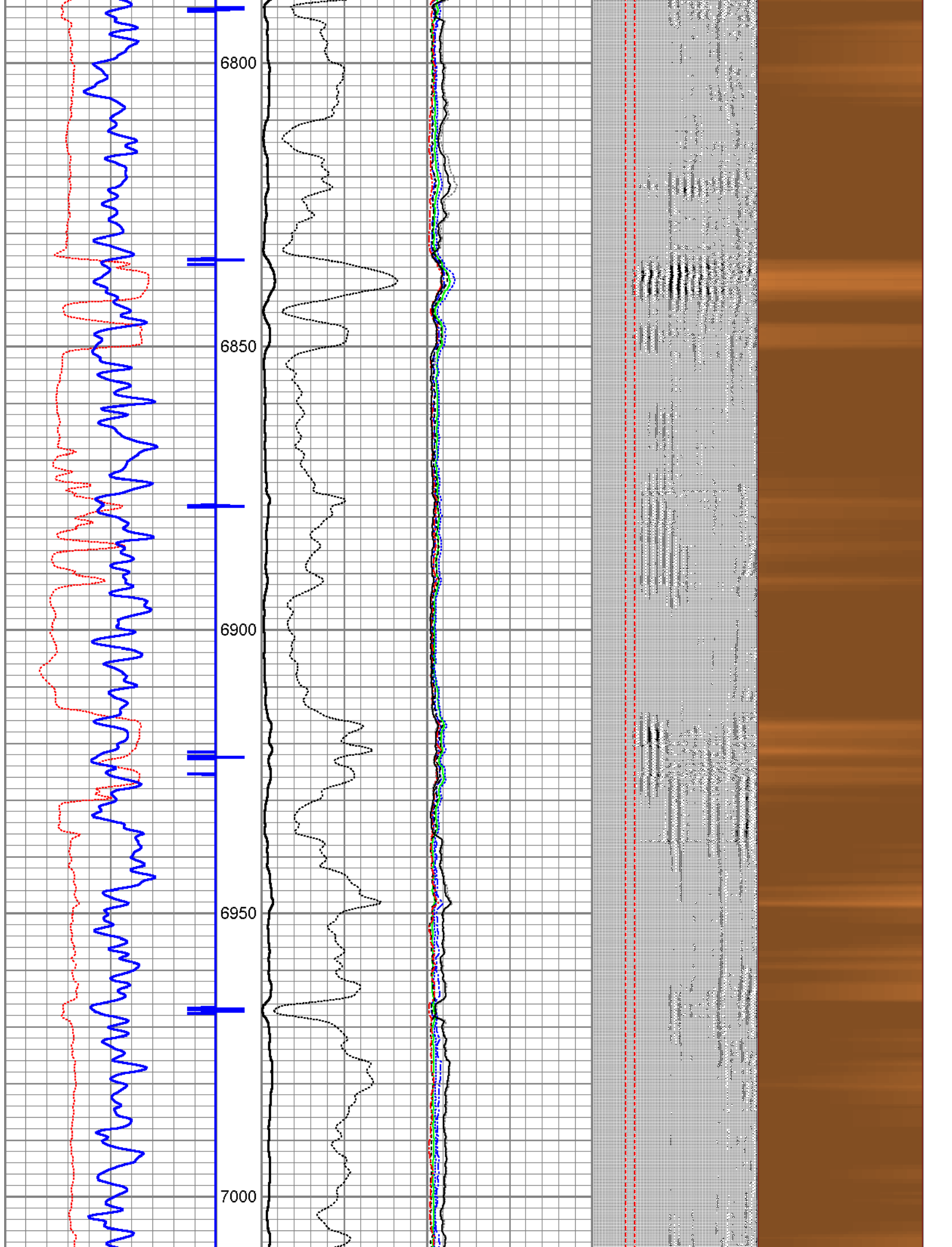


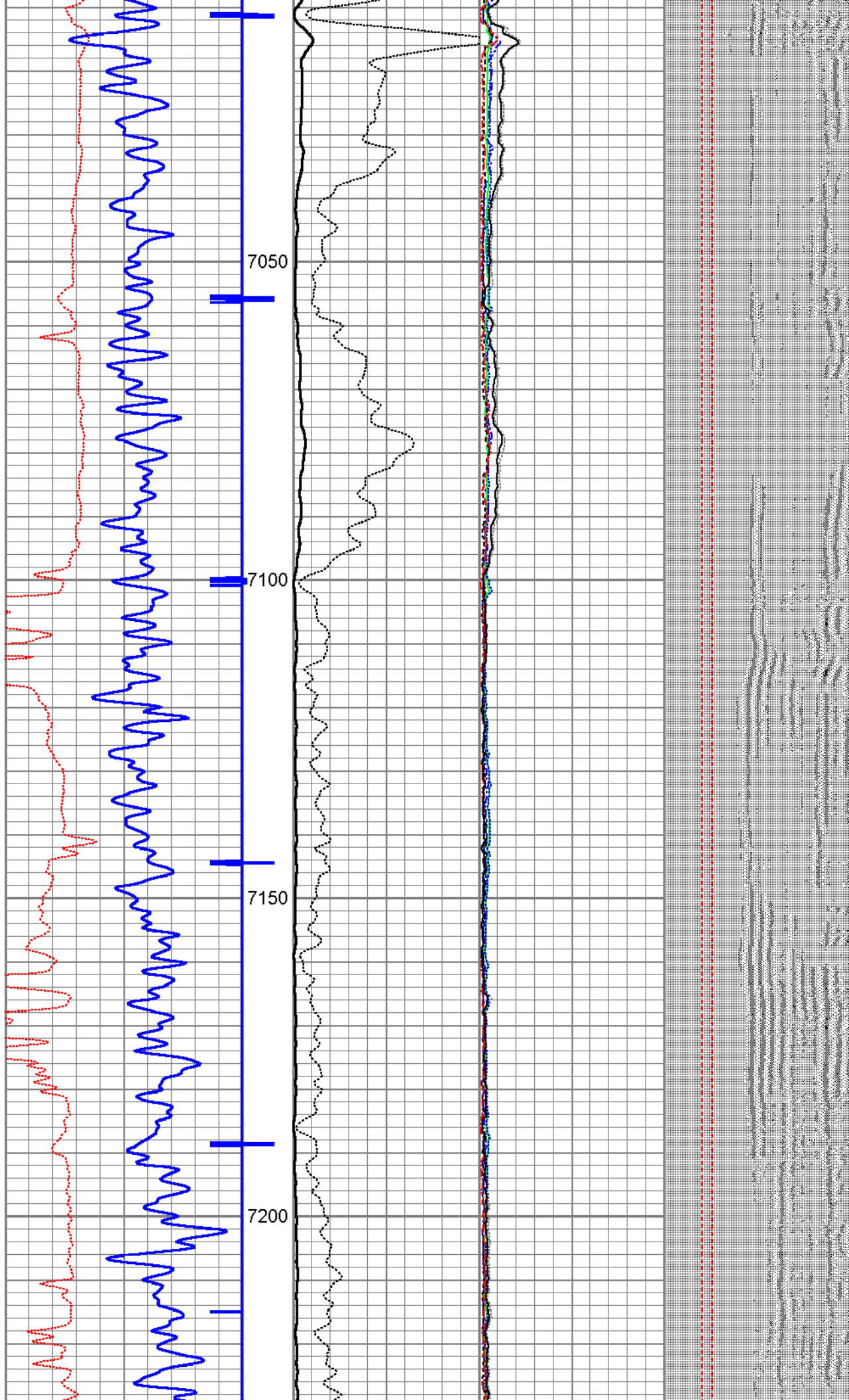


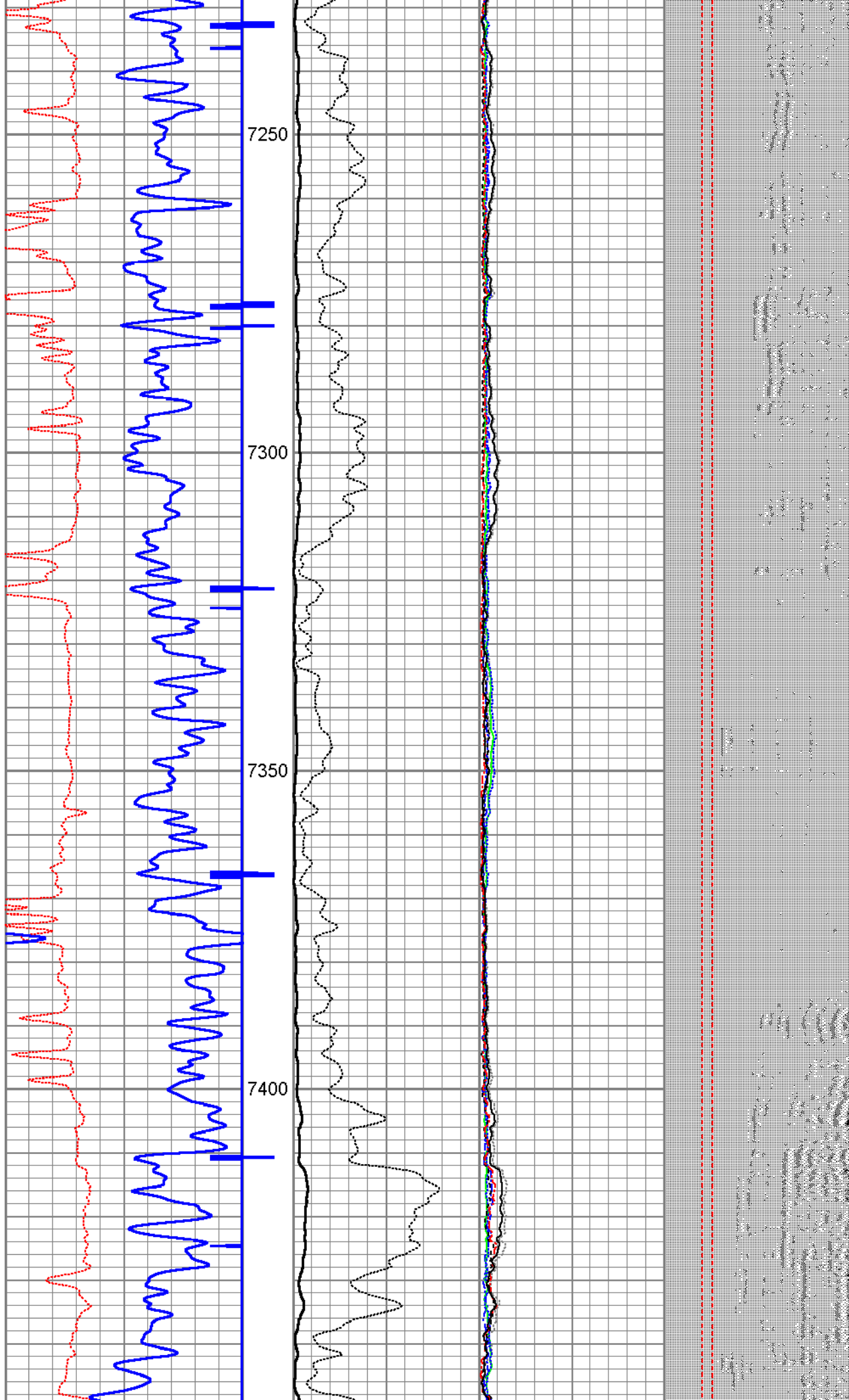


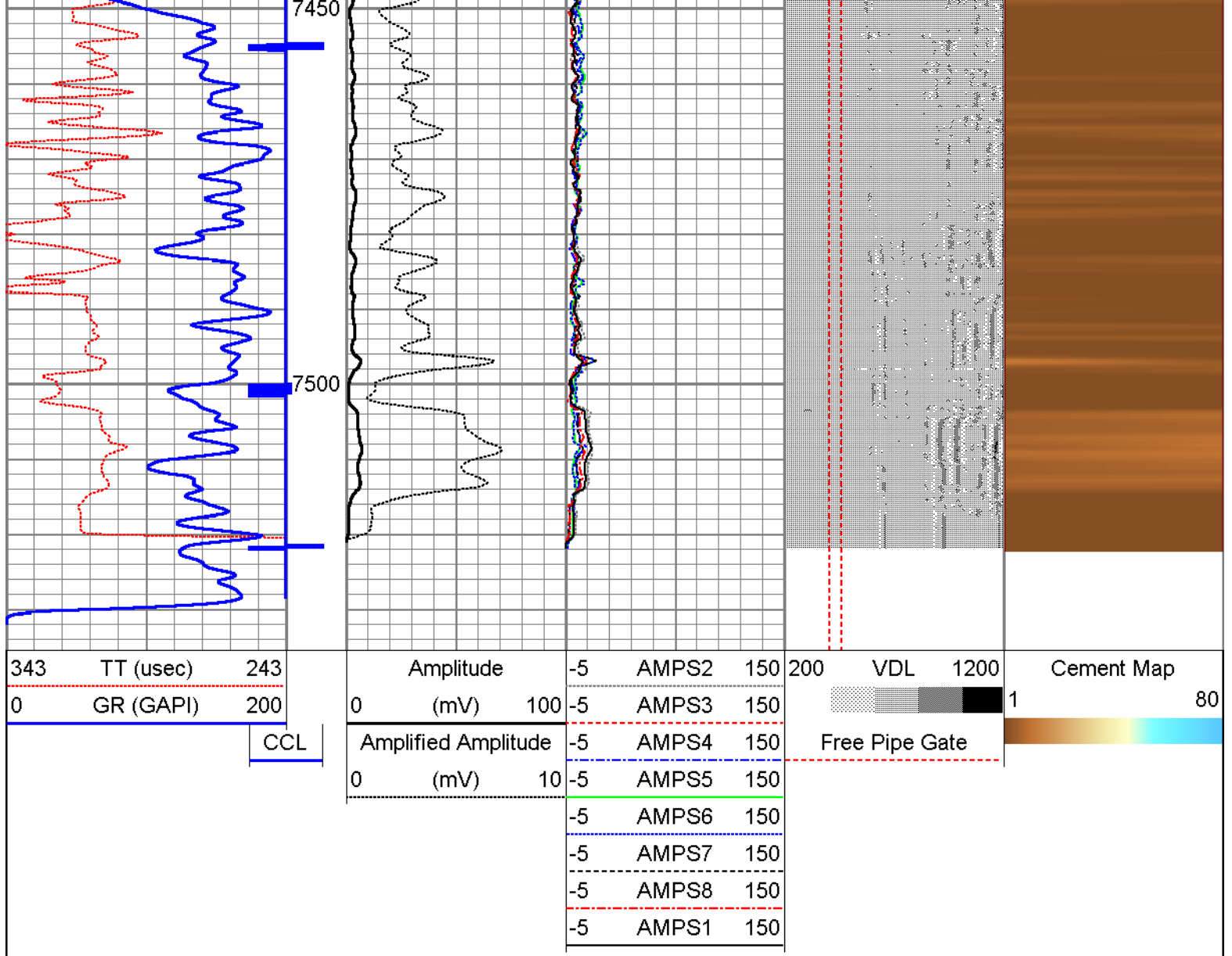




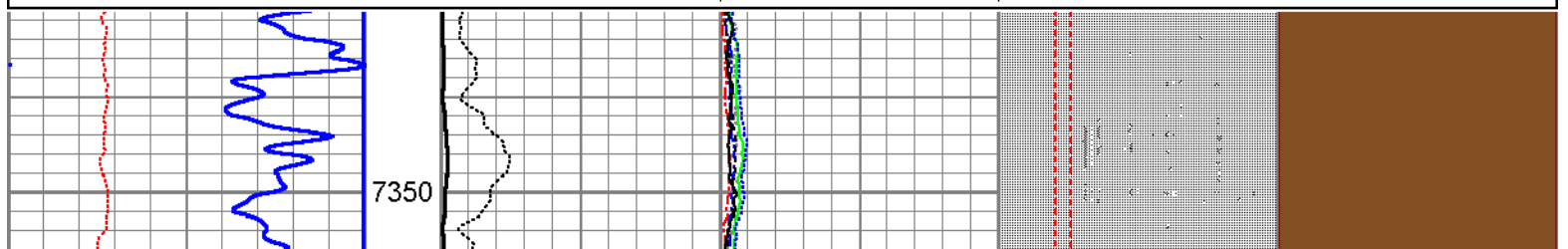
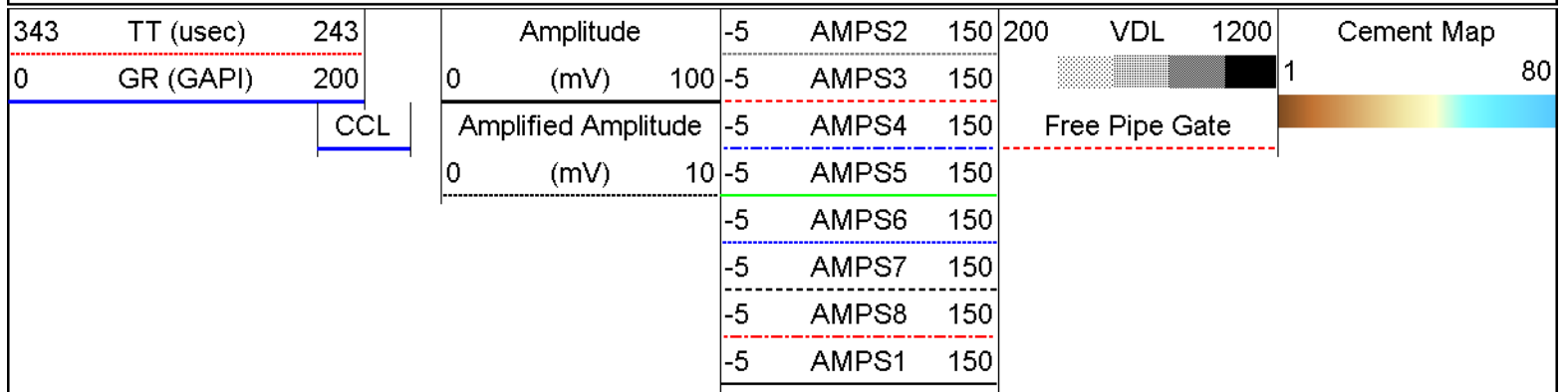


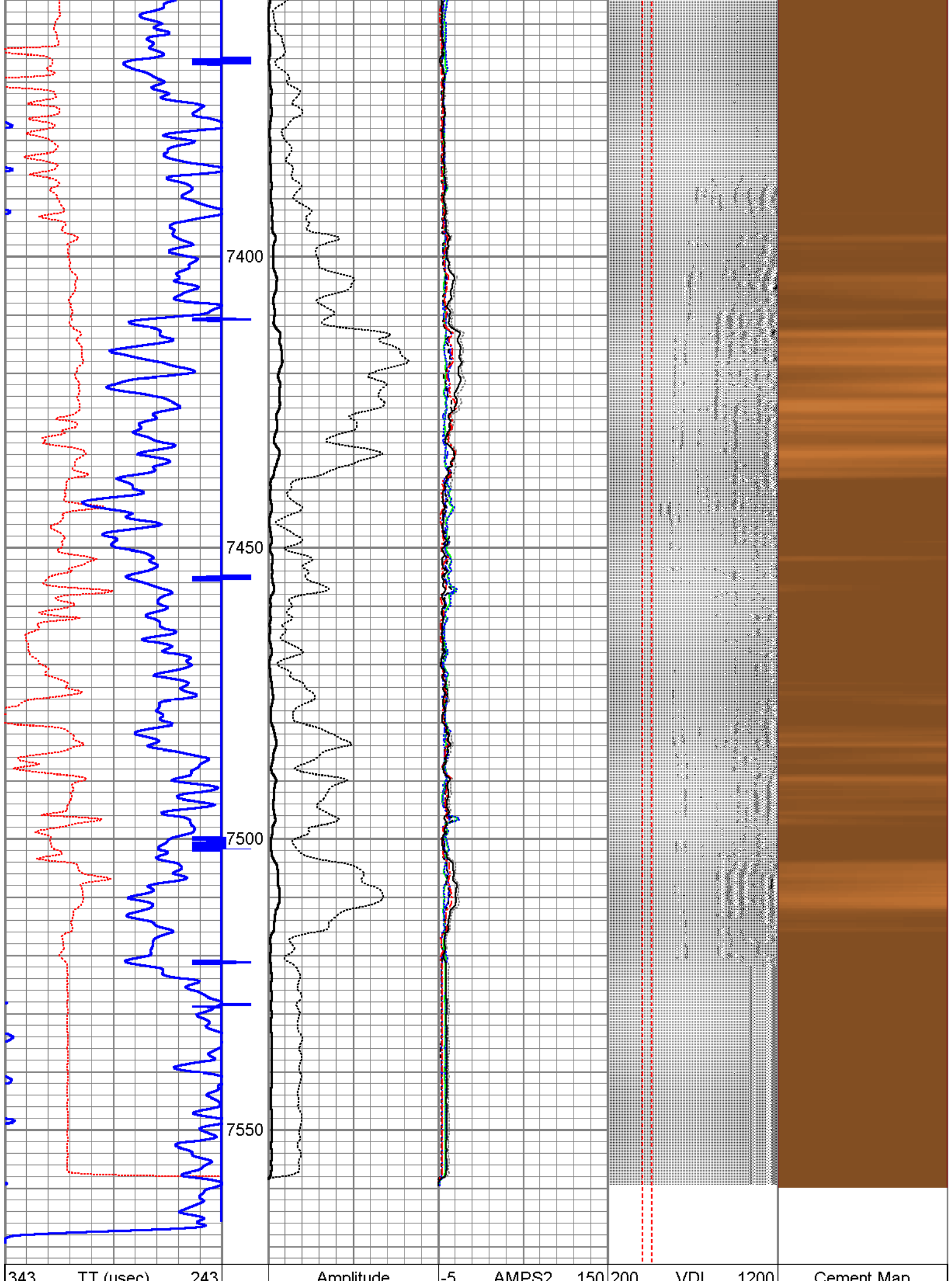


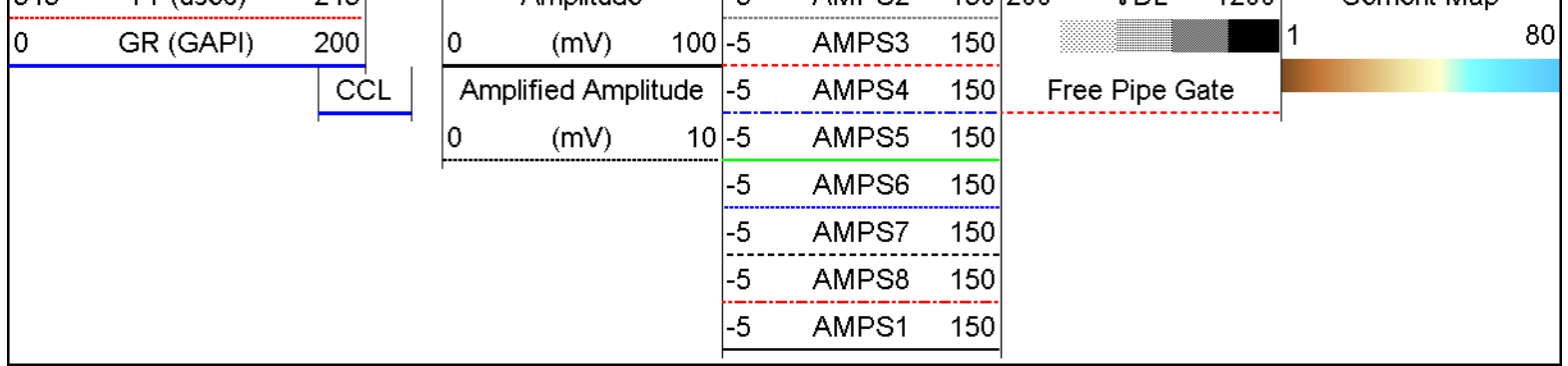




Database File: cub_creek_09.db
 Dataset Pathname: markham_0/run1/pass3
 Presentation Format: rbl55
 Dataset Creation: Wed Oct 26 15:06:17 2016 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240





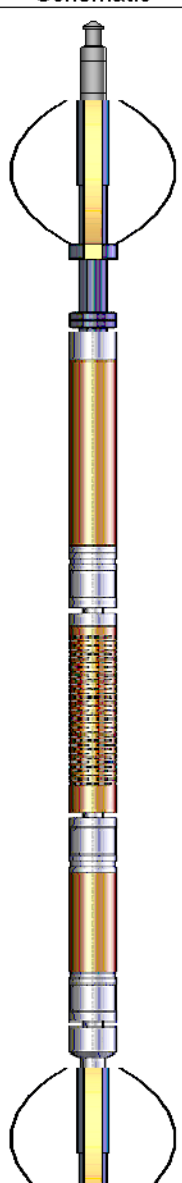


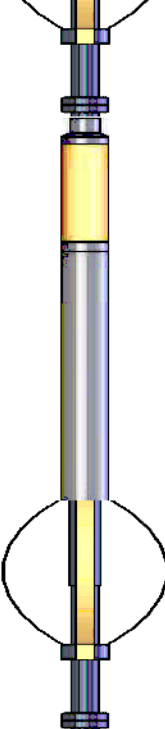
Log Variables


Database: C:\Warrior\Data\cub_creek_09.db
Dataset: field/markham_0/run1/pass4

Top - Bottom

XXXX 0	PPT usec 0	CASEWGHT lb/ft 17	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8	SRFTEMP degF 0
CASEOD in 5.5	PERFS 0	TDEPTH ft 8000	BOTTEMP degF 100	BOREID in 7.875		

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
			Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
			RBT-RBT-TEMP (FW1403-64) Probe 2.75" Radii Bond w/Temp Tool	9.17	2.75	90.00
TEMP	16.86					
WVFS3FT	14.72					
WVFCAL	14.72					
WVFS1	14.72					
WVFS2	14.72					
WVFS3	14.72					
WVFS4	14.72					
WVFS5	14.72					
WVFS6	14.72					
WVFS7	14.72					
WVFS8	14.72					
WVFS5FT	13.72					

			Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	6.75					
DCCL	6.75					
GR	5.42		GR-Probe275dig (PRO071130) Probe Digital Gamma CCL	4.78	2.75	57.00
			Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
Dataset: cub_creek_09.db: field/markham_0/run1/pass4 Total Length: 23.57 ft Total Weight: 217.00 lb O.D. 2.75 in						

	Company	CUB CREEK ENERGY
	Well	MARKHAM 09
	Field	WATTENBERG
	County	WELD
	State	C.O.