



ENERGY SERVICES

RADIAL CEMENT BOND LOG

GAMMA RAY

CCL

Company NIGHTHAWK PRODUCTION LLC

Well MONARCH 10-15

Field WILDCAT

County LINCOLN

State CO

AP#: 05-073-06699

WBS:

1/4'S: NWSE SEC: 15 TWP: 8S RGE: 55W

Permanent Datum

GL

Elevation

5576

Elev K.B.

5576

Elev D.F.

5576

Elev G.L.

5561

Log Measured From KELLY BUSHING

12

Feet Above Datum

5576

Feet Above Datum

5561

Gun Type

Charge Type

Shots / Foot

From

To

Gun Size

Gram Wt.

# of Shots

Date

10-12-15

Run Number

1

Magna Depth

8508'

Driller Depth

8640'

First Reading

8505'

Last Reading

3496"

Max Temperature

195.9 DEG

Est. Cement Top

4094'

Fluid Type

WATER

Fluid Density

8.2

Est. Fluid Level

SURFACE

Service Order

30001416

Truck No

222

Recorded By

J. JOHNSON

Witnessed By

MR. LARRY HARTNETT

Magna Contact

Ryan Ludwar ( 307 ) 680 -8124

Other Services

Service

Type

Size

Depth

Comments

THANK YOU FOR CHOOSING MAGNA!

YOUR CREW: J. JOHNSON, D. SHEAHAN

Remarks:

Previous Well Information

Depth Control Log

Perforated

Bridge Plug Set At

Cement Retainer Set At

Production Packer Set At

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 interpretations, 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 as set out in our current price schedule.

MAIN PASS

2015-10-12 13:51

Tension (lbF)

0.00 2000.00

Collar Locator

0.0 100.0

Gamma Ray

0.0 150.0

Pass No. 17

FEET  
1:240

3491.29

3' Amplitude (mV)

0.0 100.0

Amplitude X 5 (mV)

0.0 20.0

3' Travel Time (µs)

650.0 150.0

Logging Up

Shutin

Min Radial Amp (mV)

0.0 100.0

Max Radial Amp (mV)

0.0 100.0

Avg Radial Amp (mV)

0.0 100.0

File FINAL.pre

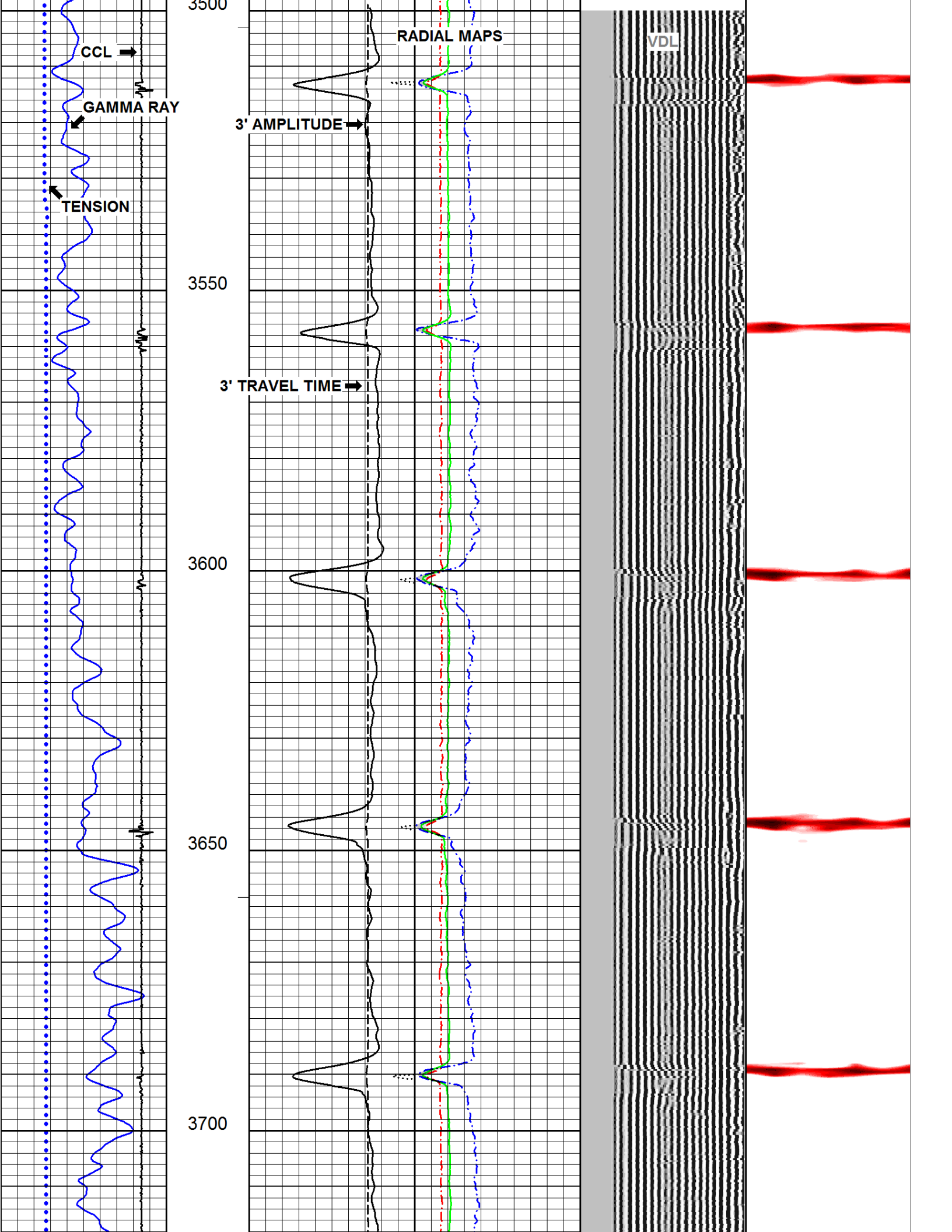
5' Variable Density (µs)

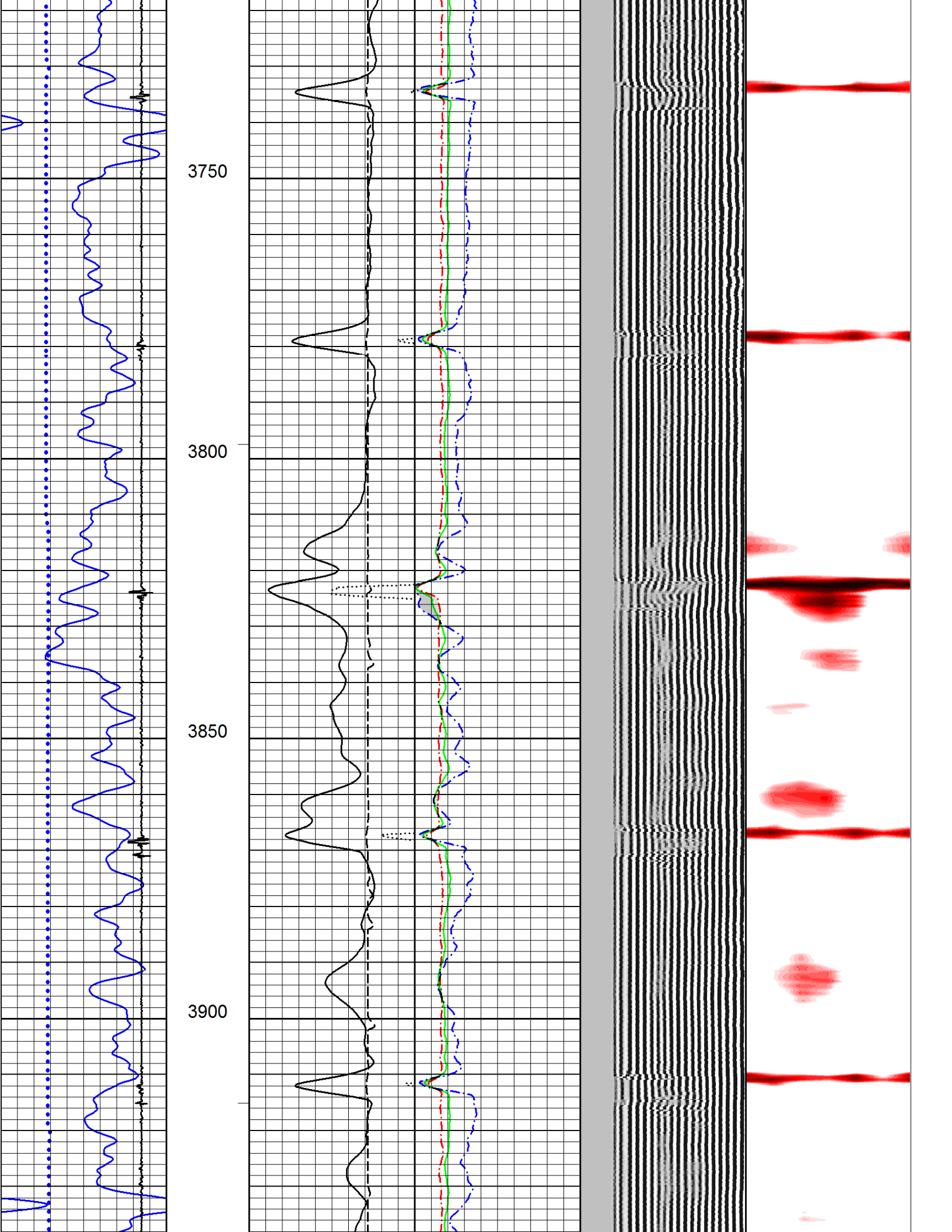
200.00 1200.00

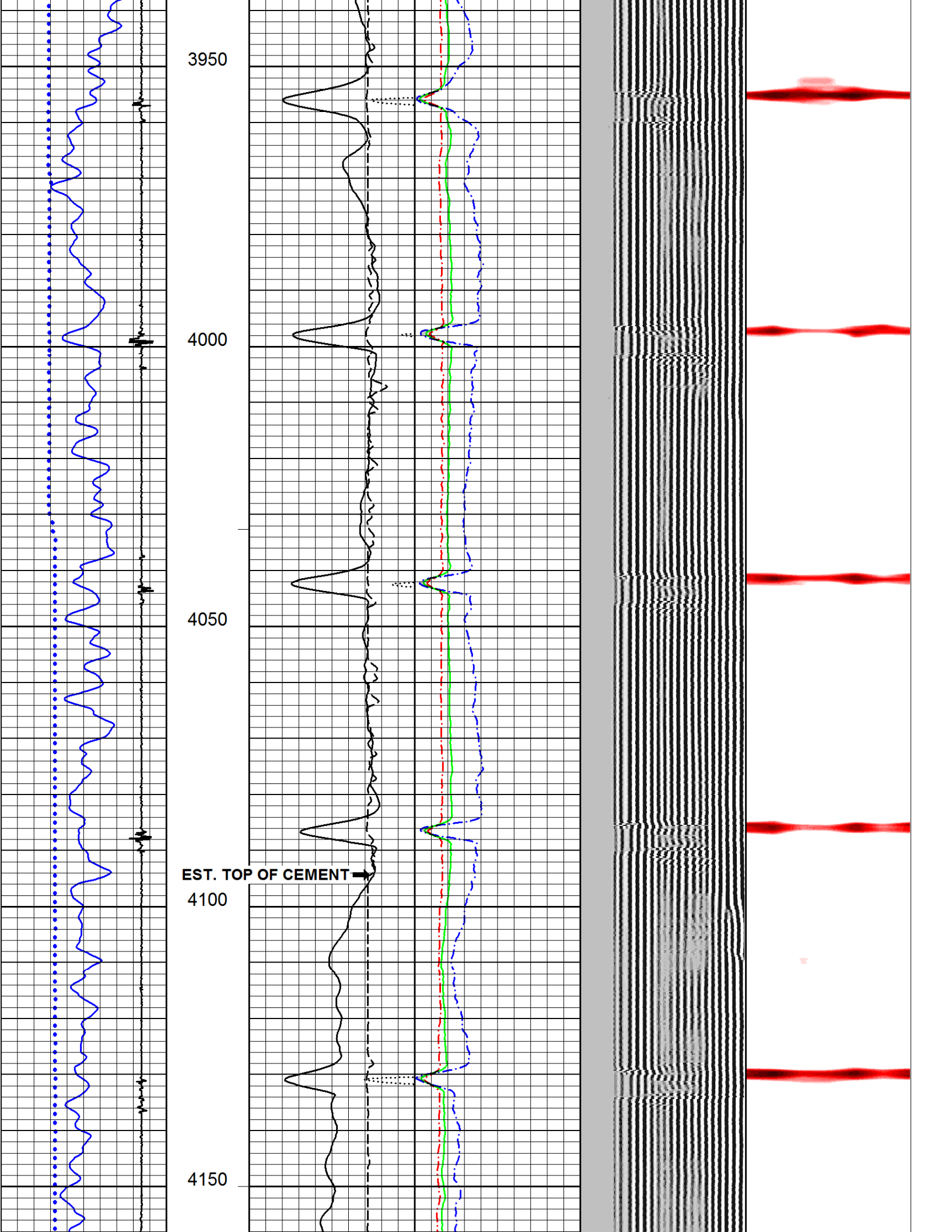
Cement Map (mV)

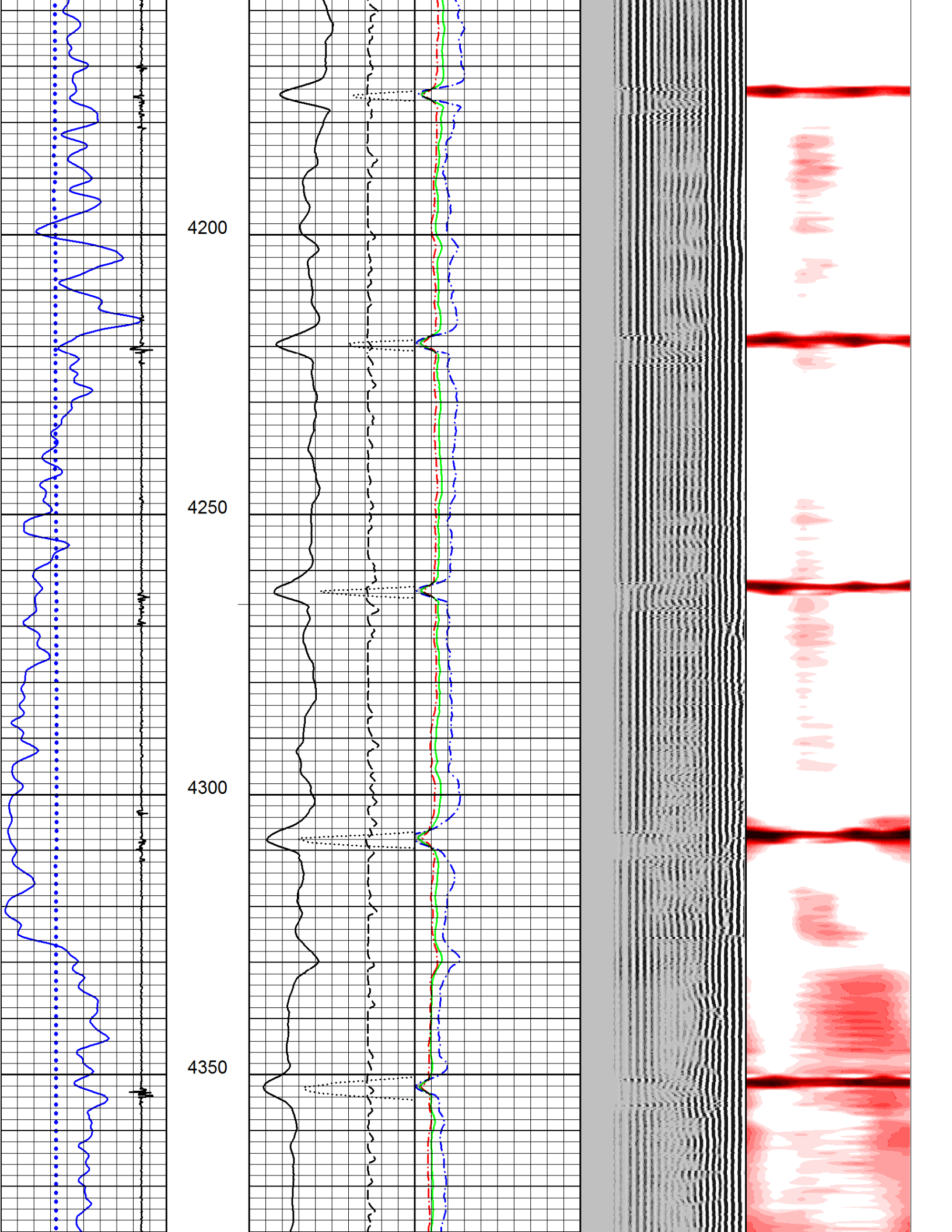
0.00 40.00

100701

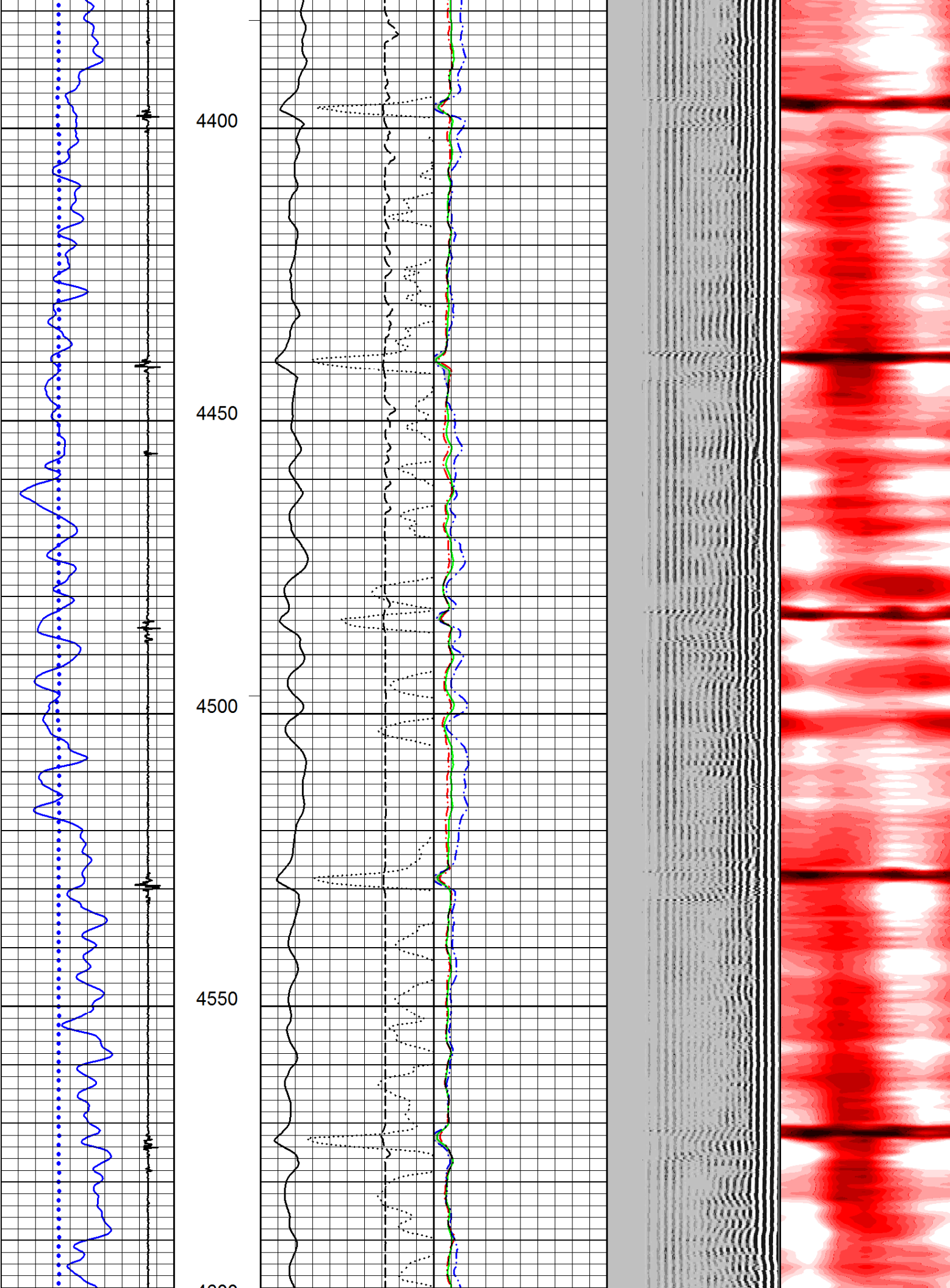


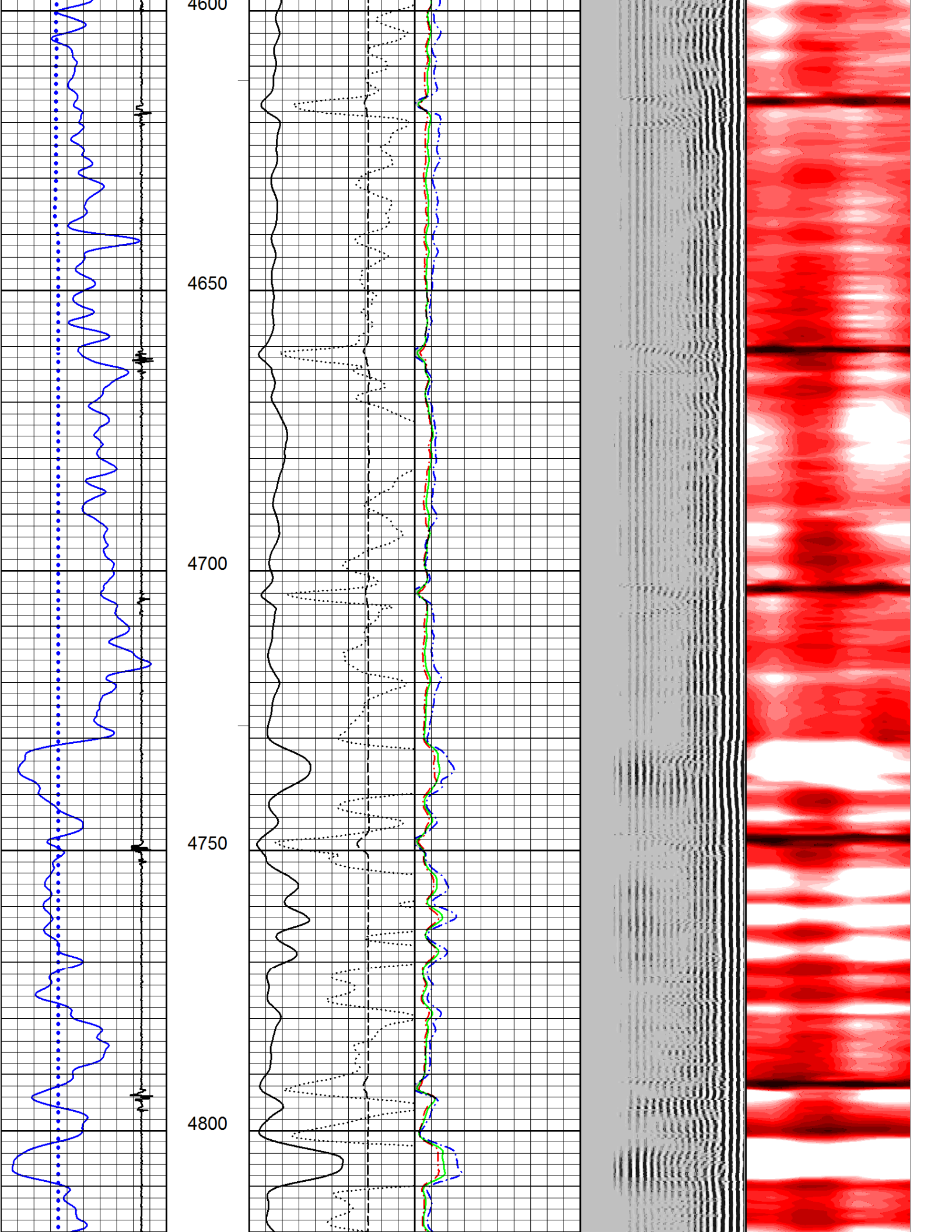


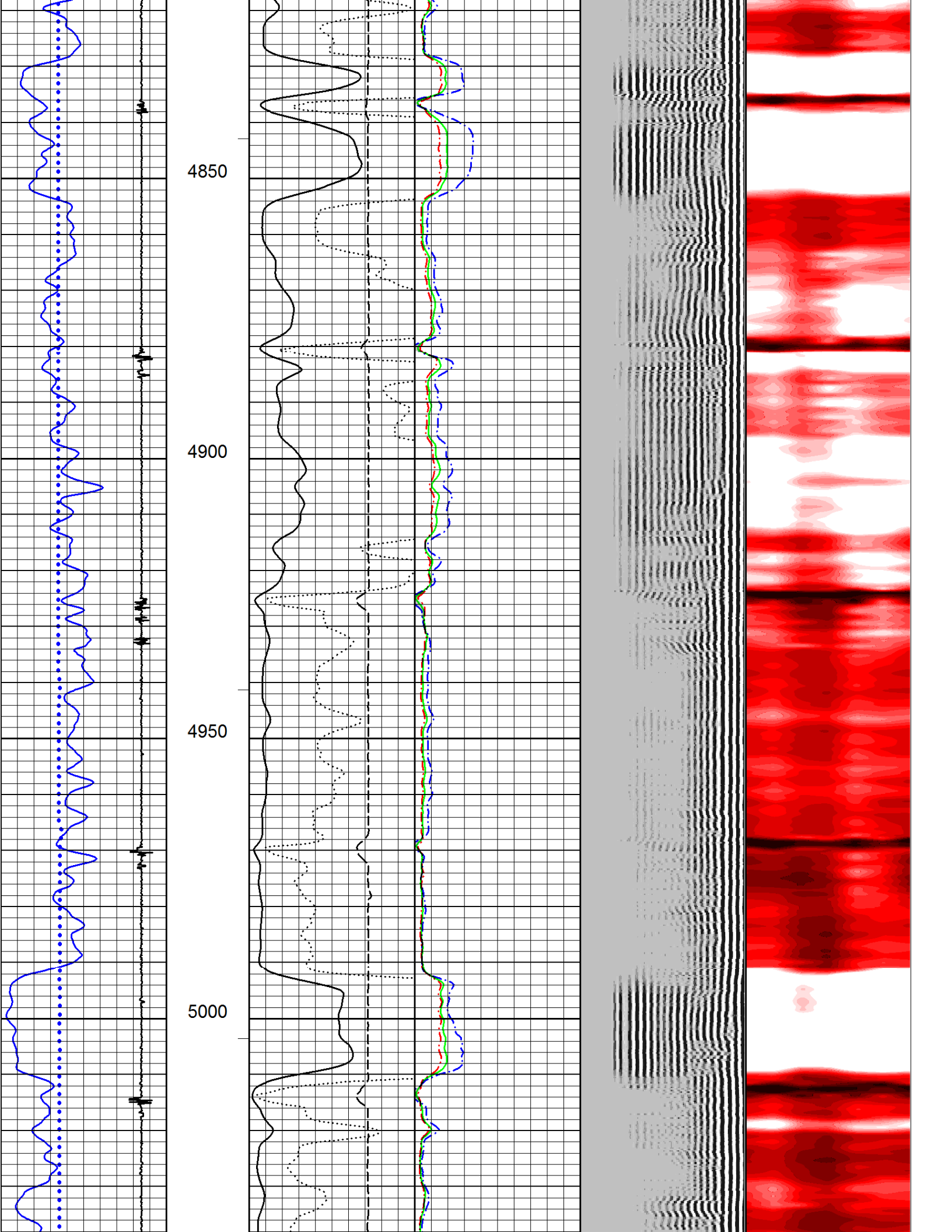




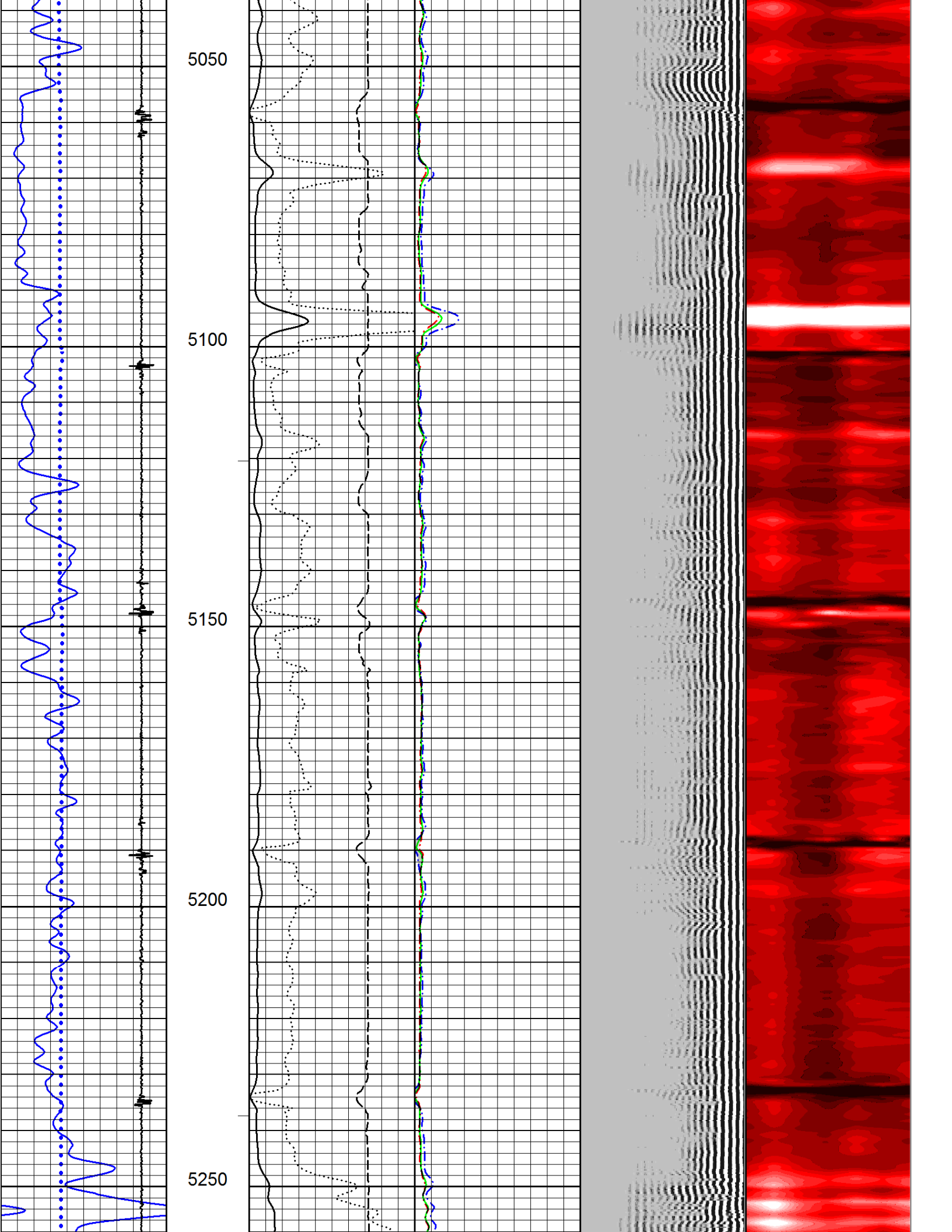


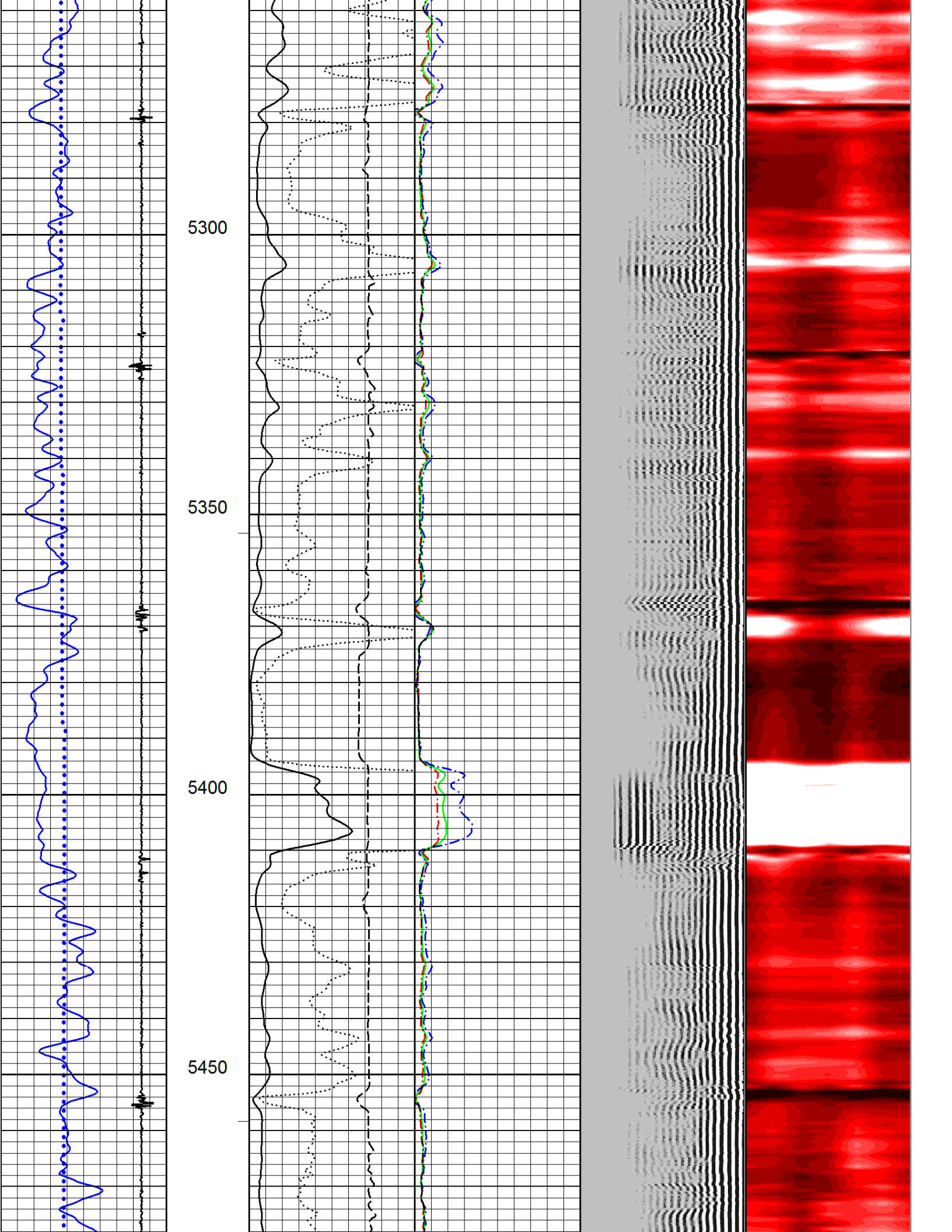


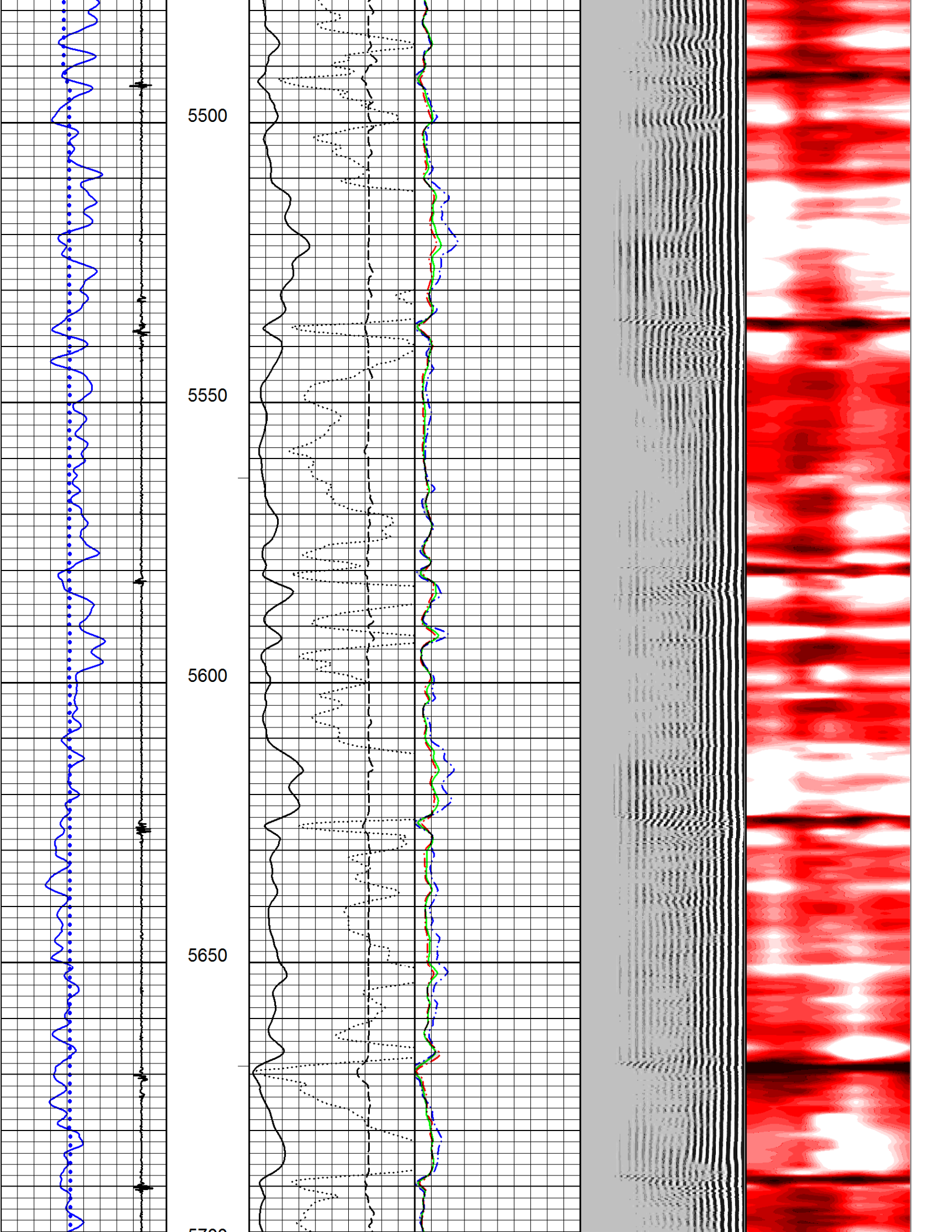


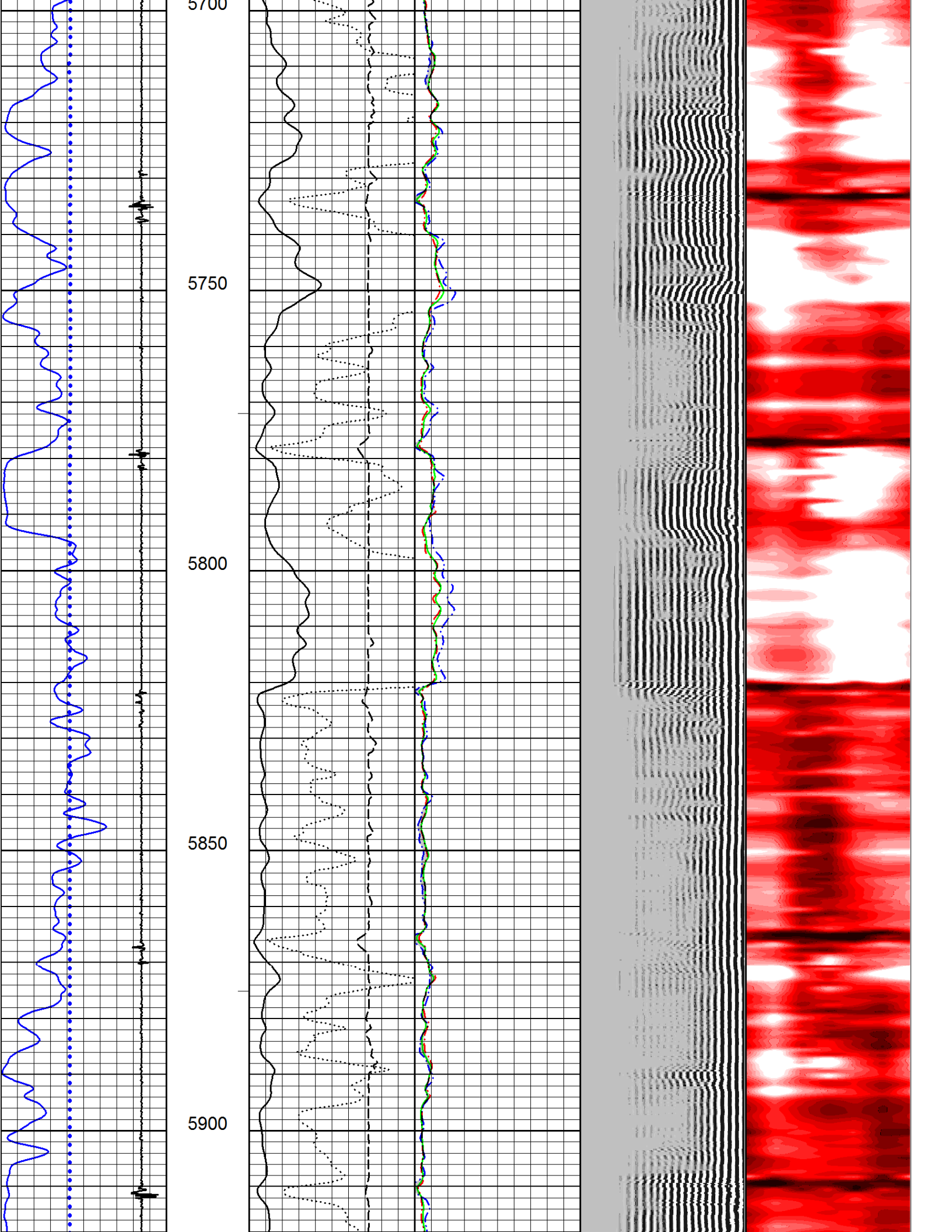




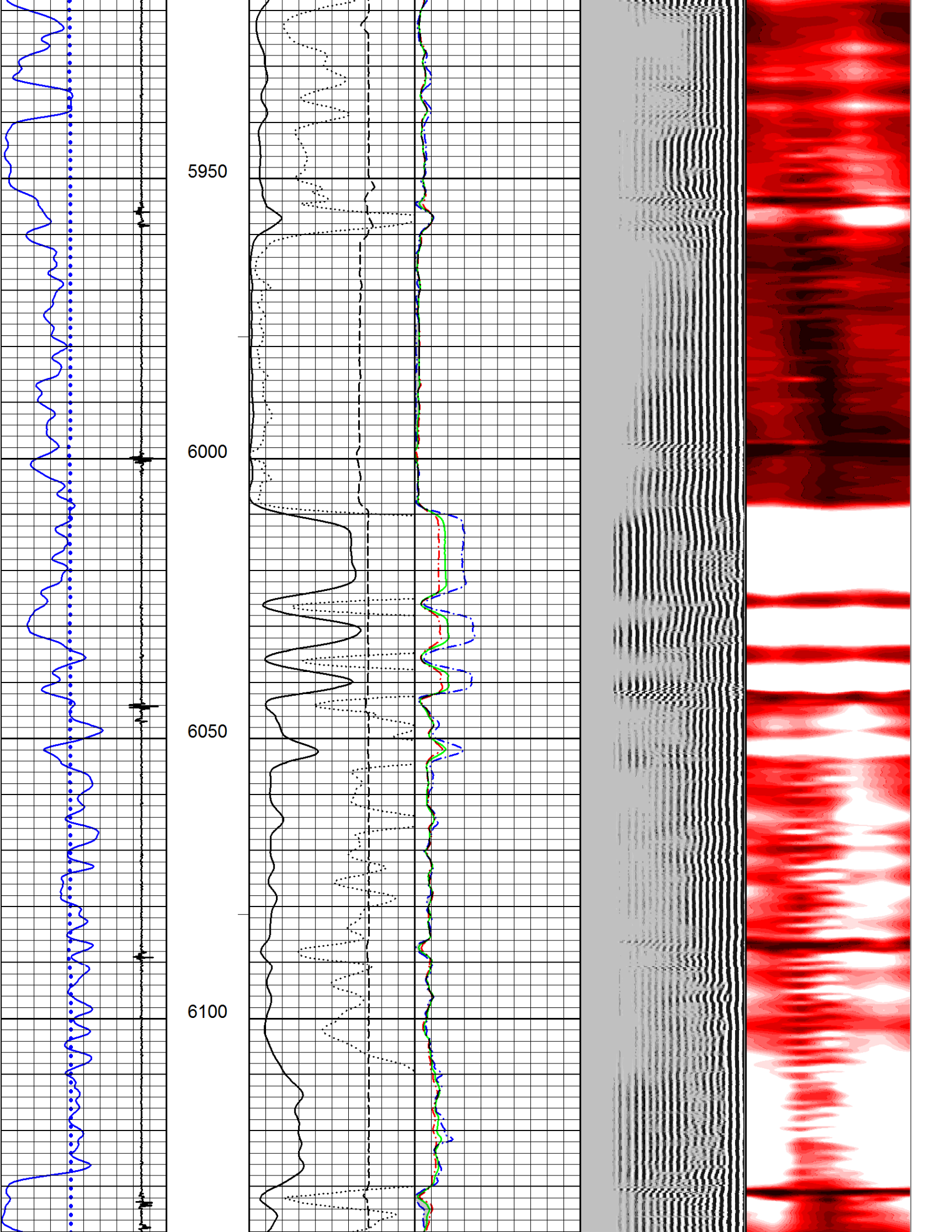


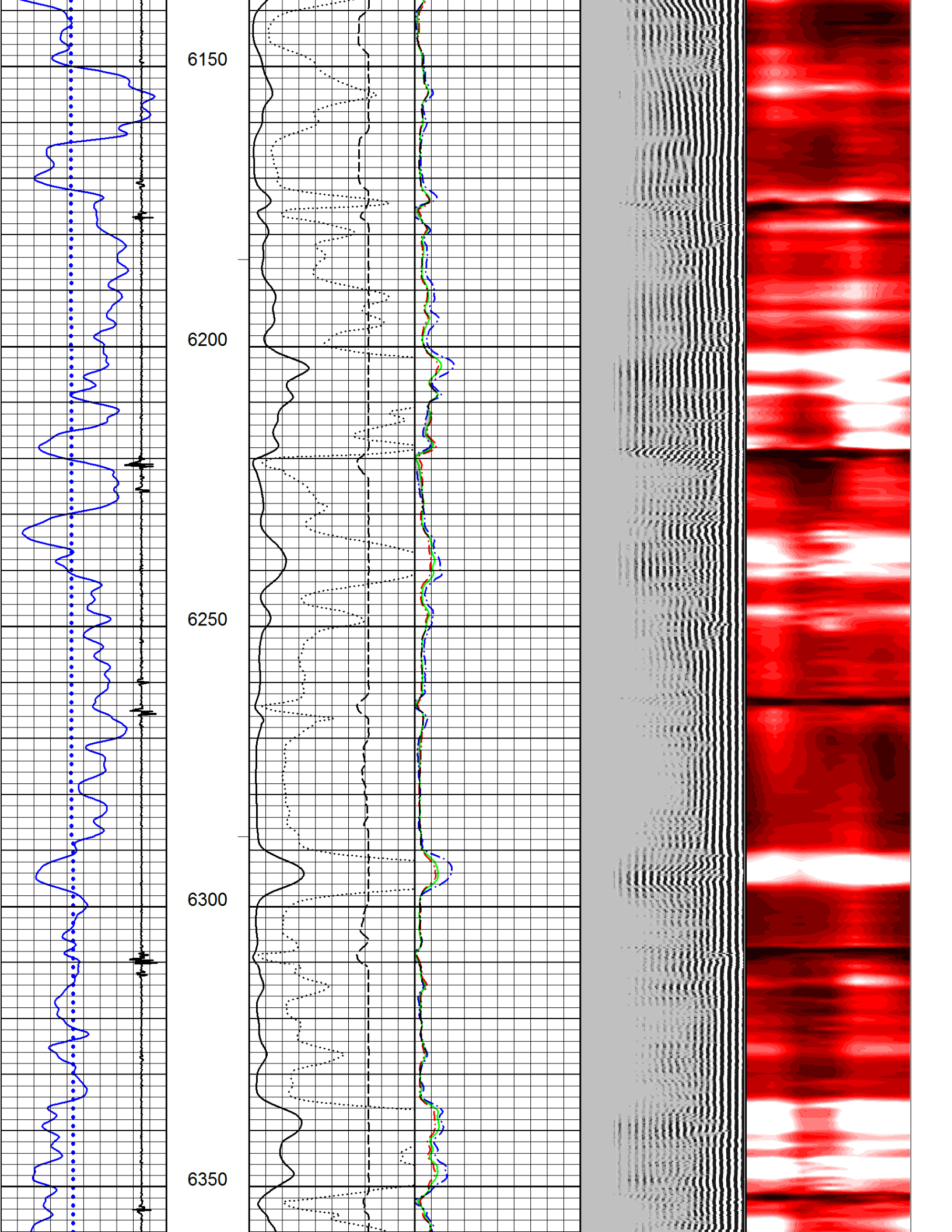


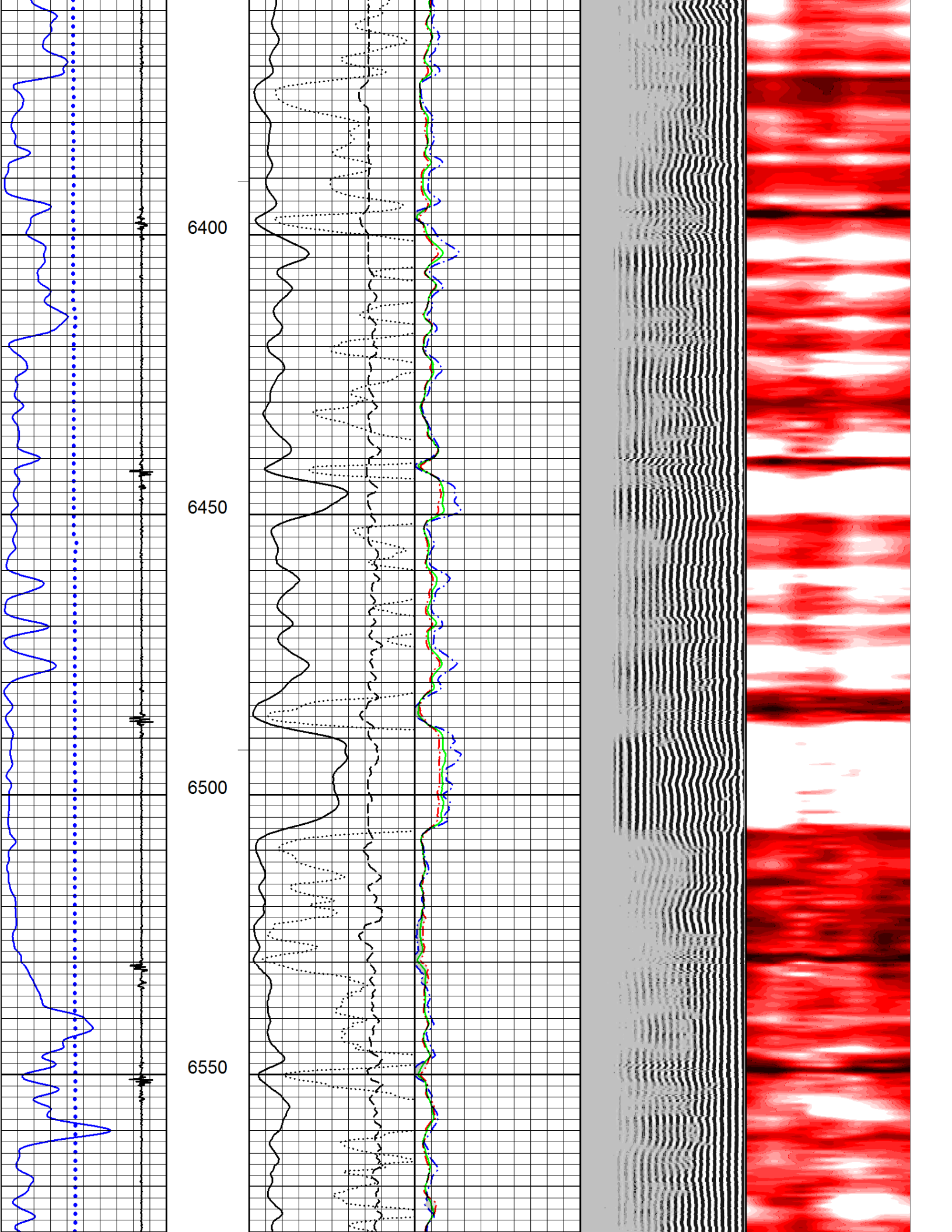




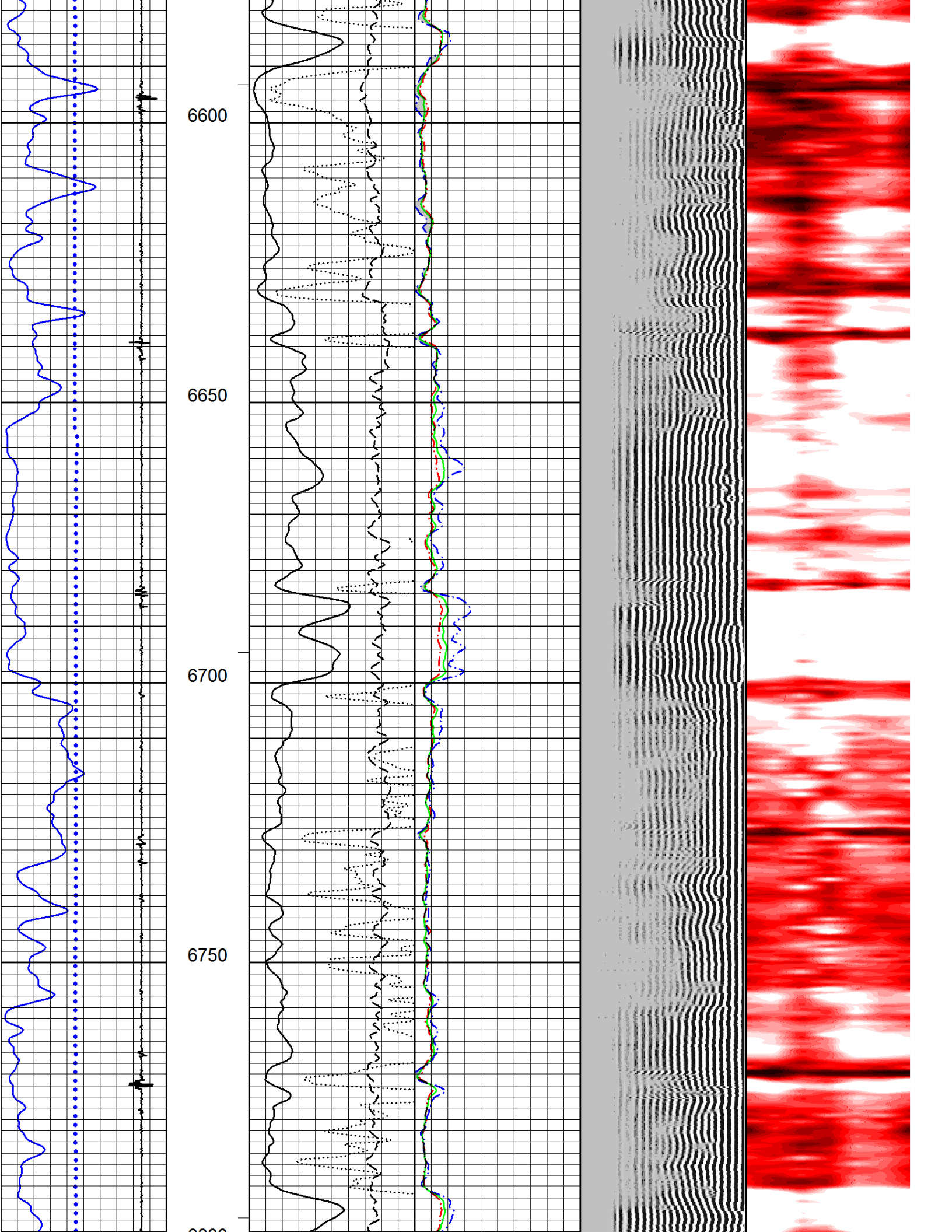




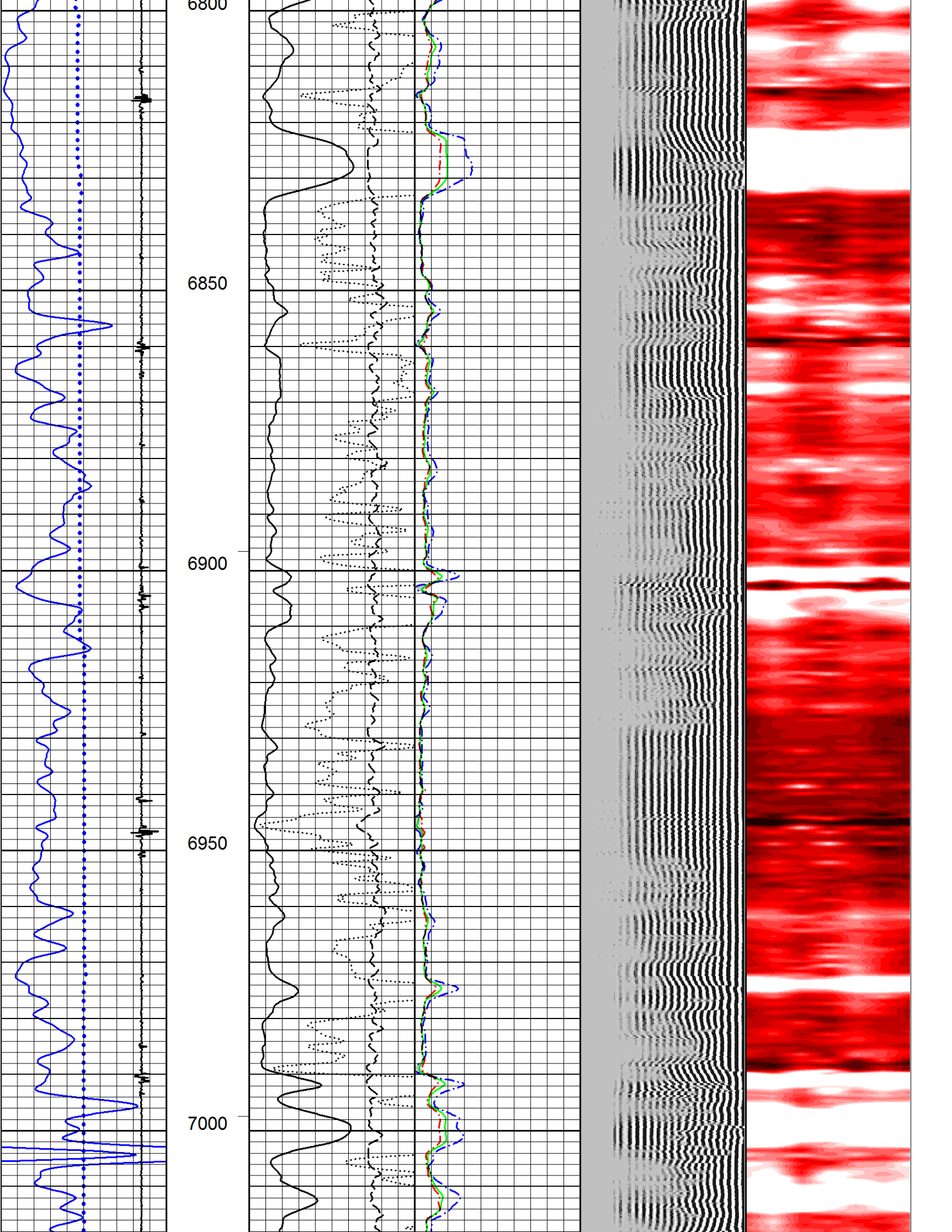


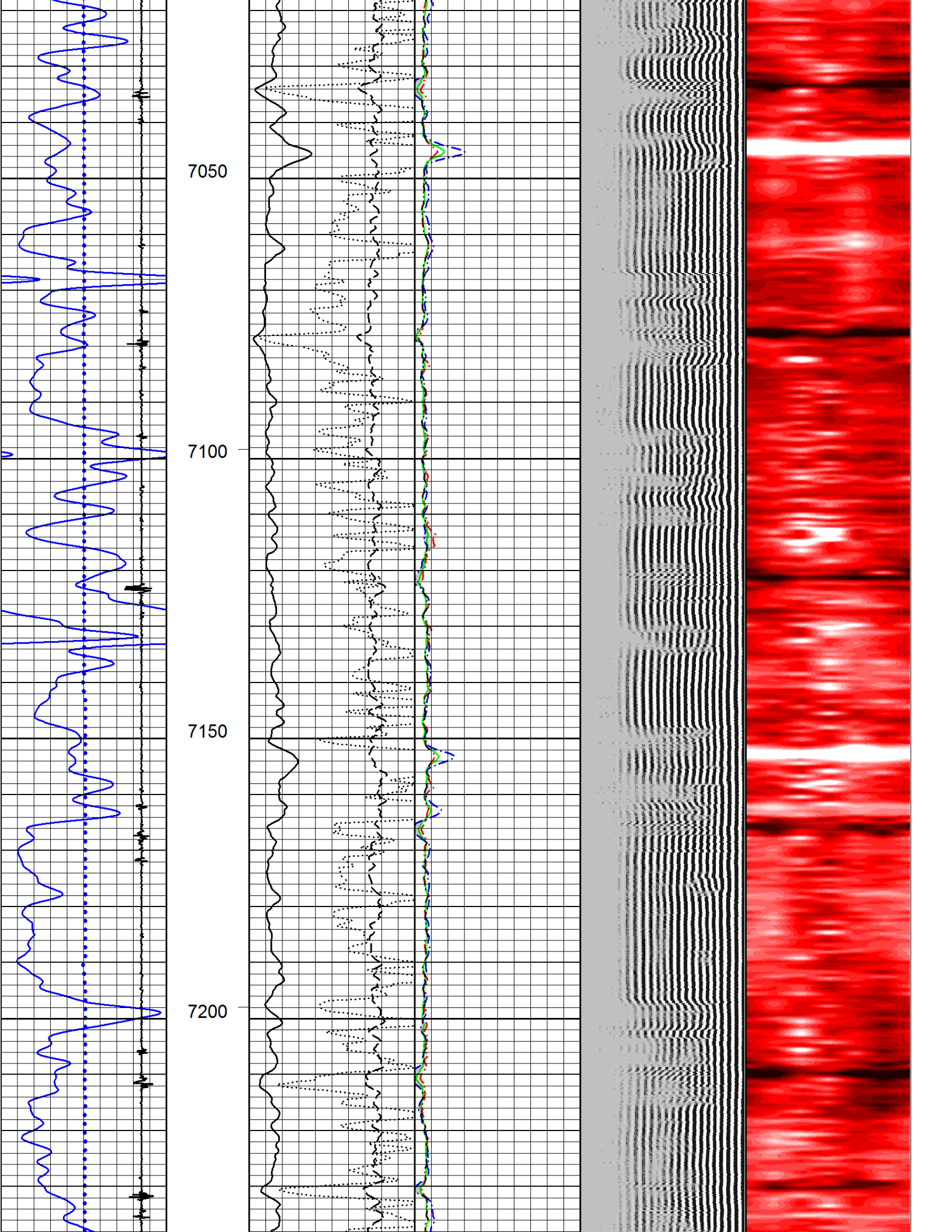


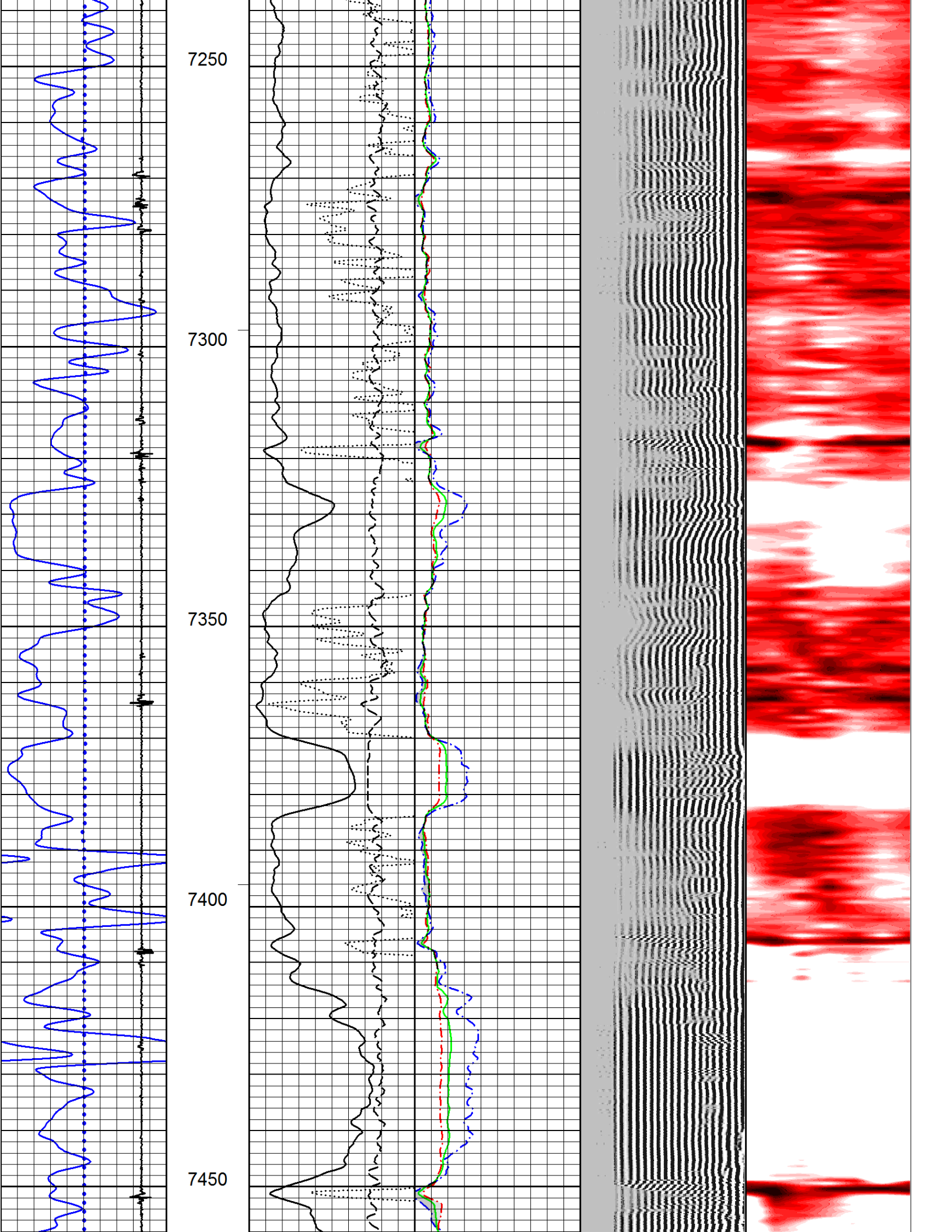




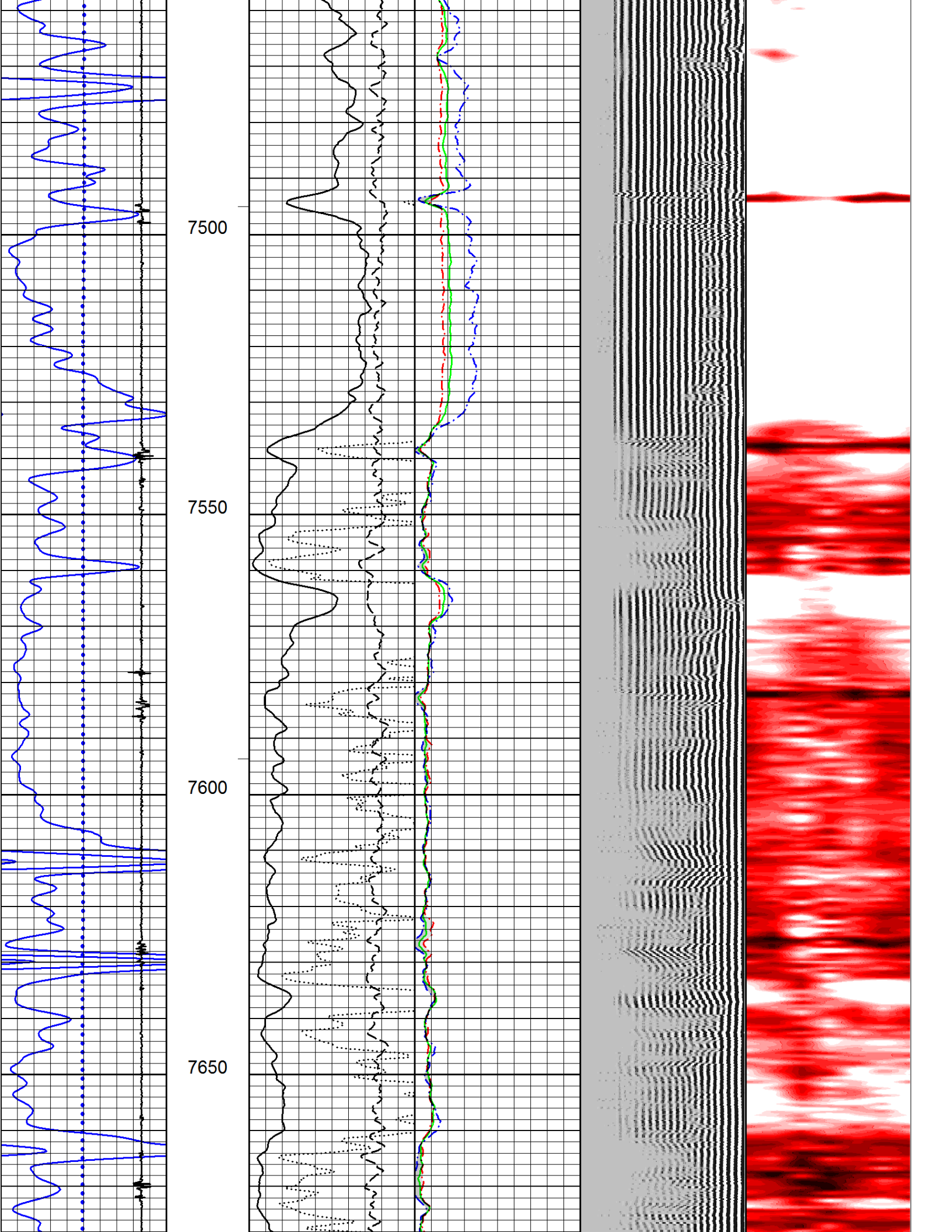




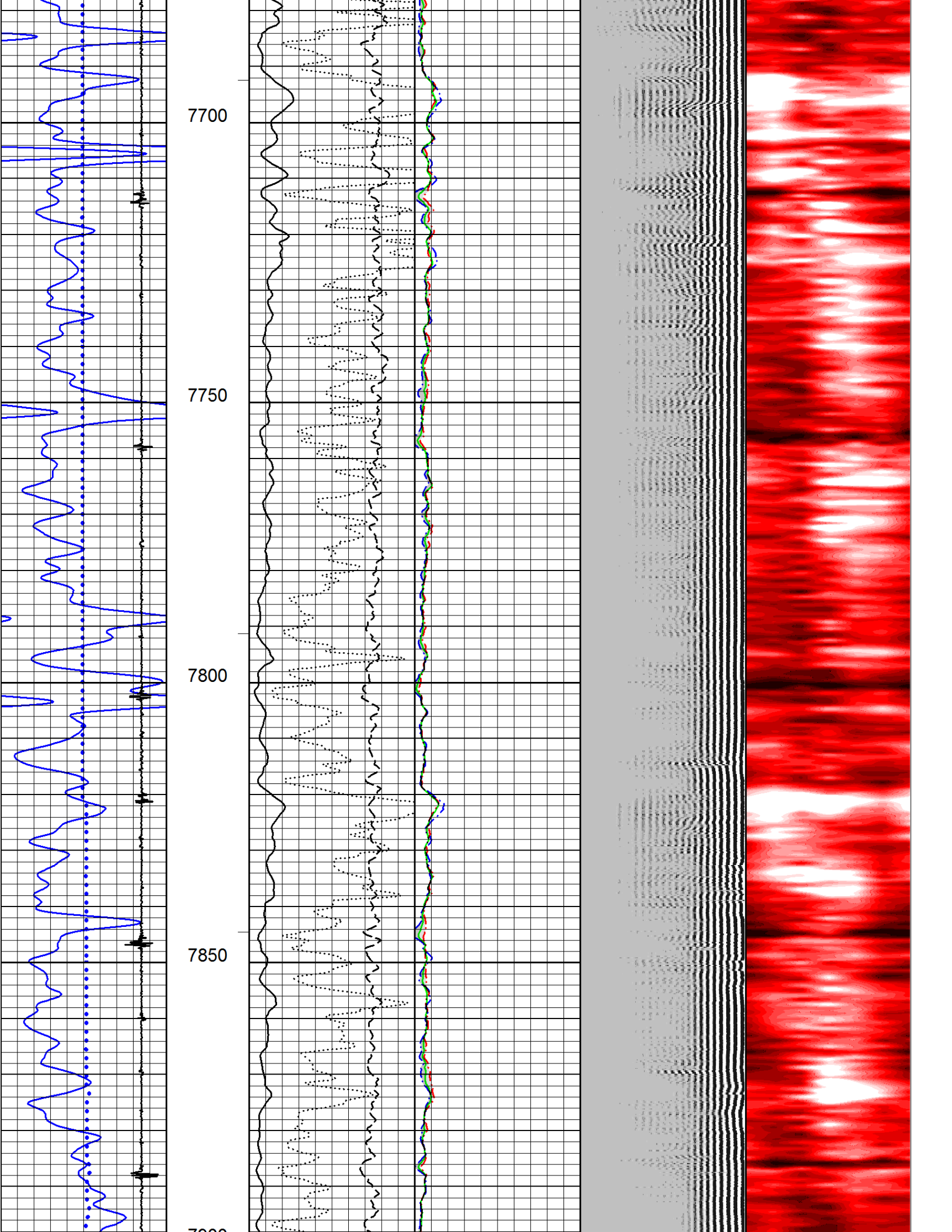


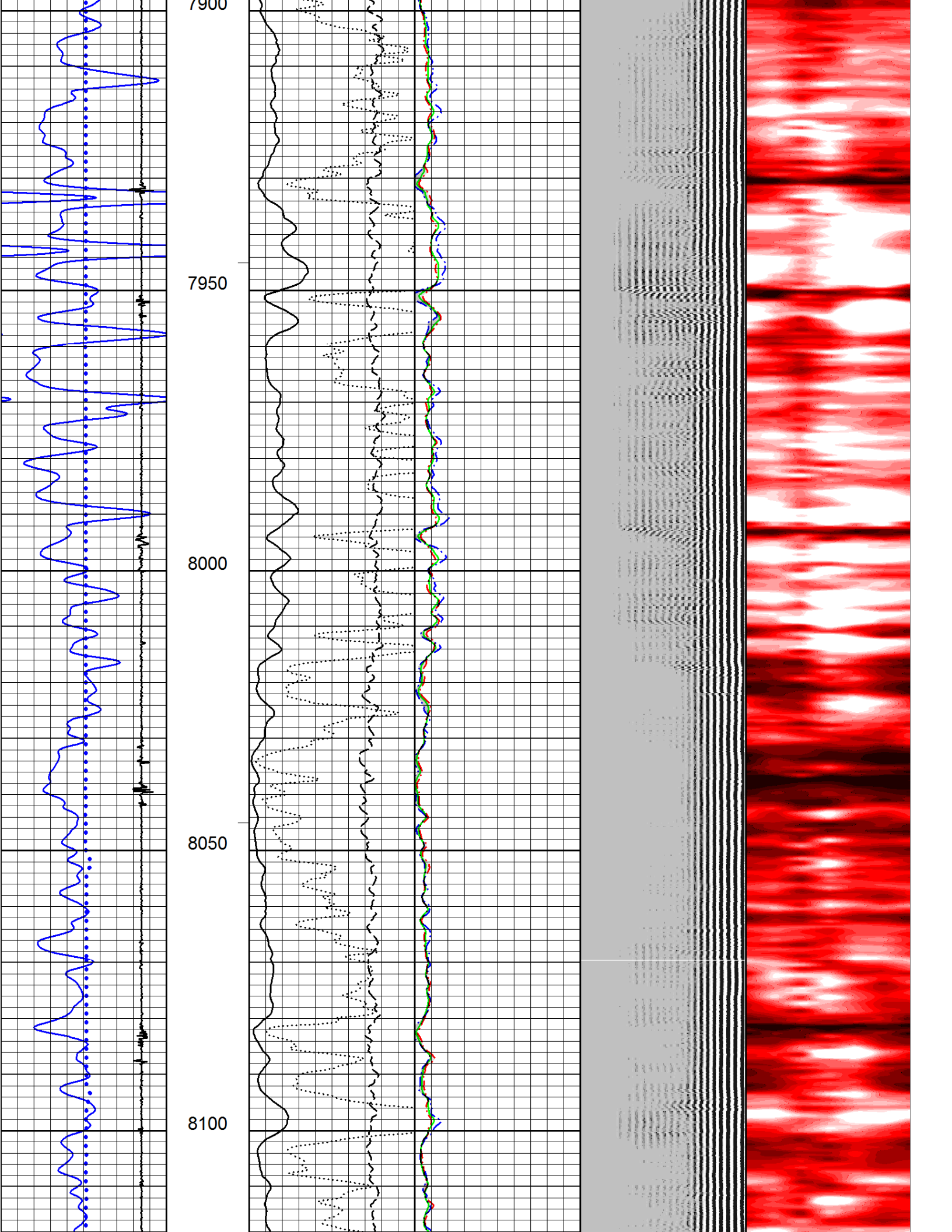


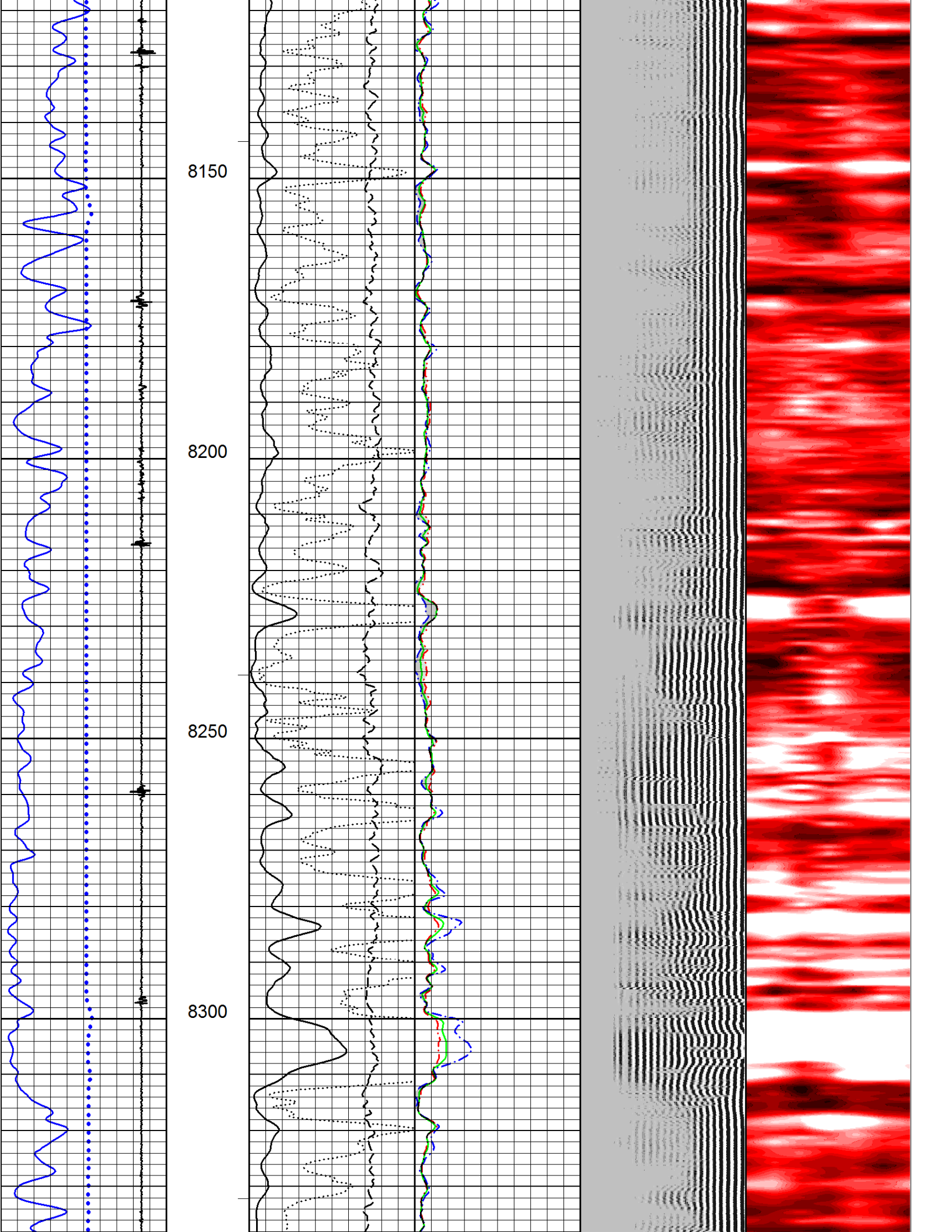




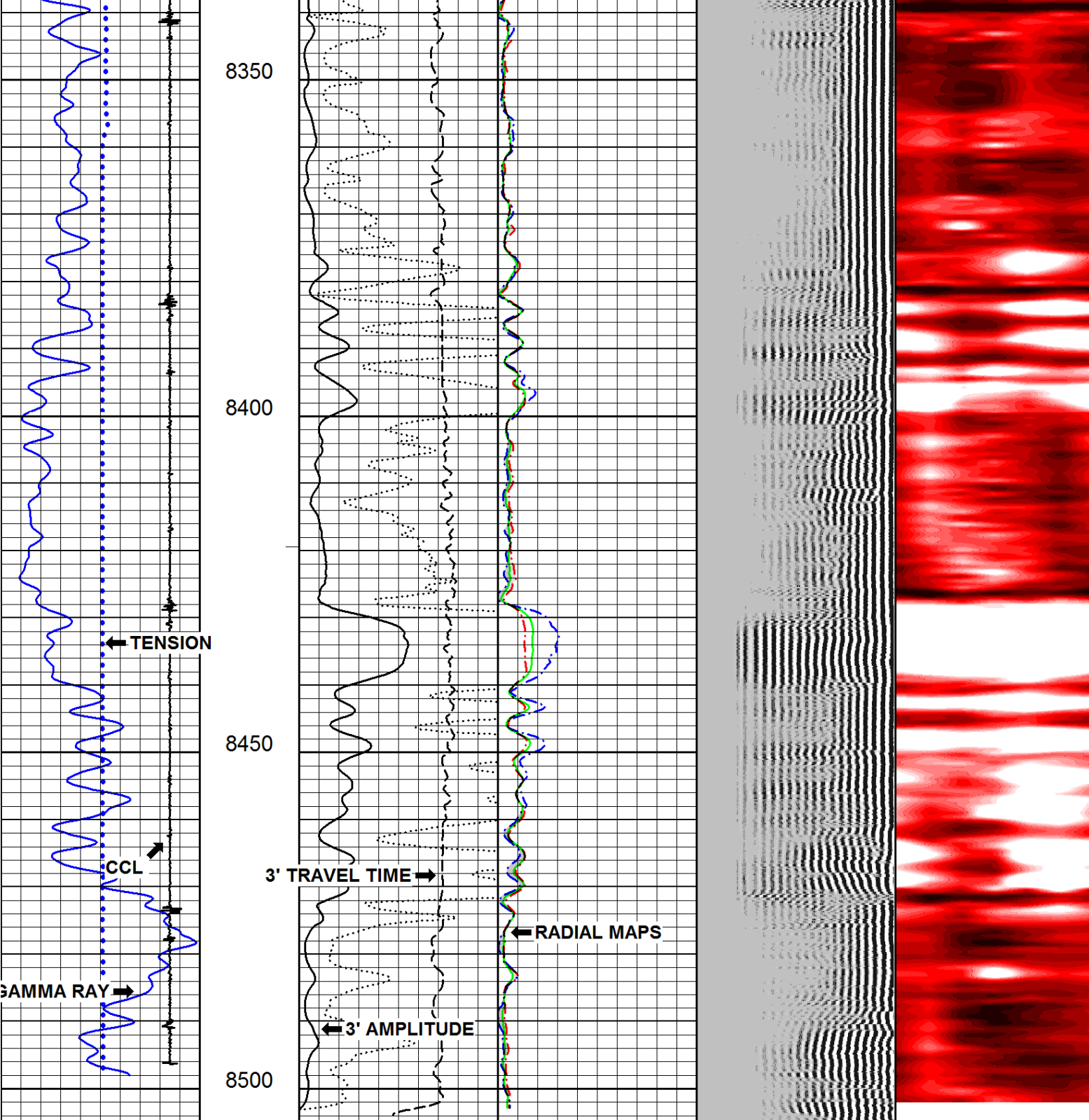












2015-10-12 13:51	8505.15	3' Amplitude (mV)	Min Radial Amp (mV)	5' Variable Density (μs)	Cement Map (mV)
Tension (lbF)		0.0 100.0	0.0 100.0	200.00 1200.00	0.00 40.00
0.00 2000.00		Amplitude X 5 (mV)	Max Radial Amp (mV)		
Collar Locator		0.0 20.0	0.0 100.0		
0.0 100.0		3' Travel Time (μs)	Avg Radial Amp (mV)		
Gamma Ray		650.0 150.0	0.0 100.0		
0.0 150.0		Logging Up	File FINAL.pre		
Pass No. 17	FEET 1:240	Shutin			

100701







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**County** LINCOLN **State** CO

**1/4'S** NWSE **SEC.** 15 **TWP.** 8S **RGE.** 55W