



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Kerr-McGee Oil & Gas Onshore, L.P.
Well Farley 30N-23HZ
Field Wattenberg
County Weld State Colorado

Location:

SHL: 536' FNL & 554' FEL
SEC 23 TWP 3N RGE 68W

API #: 05-123-36306-00

Other Services
Plug
MIT/MTT

Permanent Datum

Log Measured From

Drilling Measured From

Ground Level

Kelly Bushing

Kelly Bushing

Elevation

4939

Elevation

K.B. 4955
D.F. 4954
G.L. 4939

Date

08-SEP-2013

Run Number

One

Depth Driller

11,707'

Depth Logger

6,693'

Bottom Logged Interval

6,693'

Top Log Interval

Above Ground Level

Open Hole Size

9.625"

Type Fluid

Water

Density / Viscosity

8.34 LB/GAL

Max. Recorded Temp.

245 Deg F

Estimated Cement Top

713'

Time Well Ready

ROA

Time Logger on Bottom

Equipment Number

HD-0134

Location

Fort Lupton, CO

Recorded By

Greg Jackson

Witnessed By

Sonny Secura

Run Number

Bit

From

To

Size

Weight

From

To

Casing Record

Size (in)

Wgt (lbs/ft)

Grade

Top

Bottom

Surface Casing

9.5/8

36

J-55

Surface

980'

Intermediate #1

7

26

P-110

Surface

7,553'

Intermediate #2

4 1/2

11.6

P-110

6,626'

11,707'

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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

Radial Cement Bond is Primary Log
Correlated to Casing Tally Reported Liner Top @ 6,626'
Run RCBL from just below Liner Top to Surface
RCBL Logged with 2250 PSI Induced pressure @ surface
Estimated Top of Cement @ 713'
Corrected -8' @ Liner Top with zero @ KB

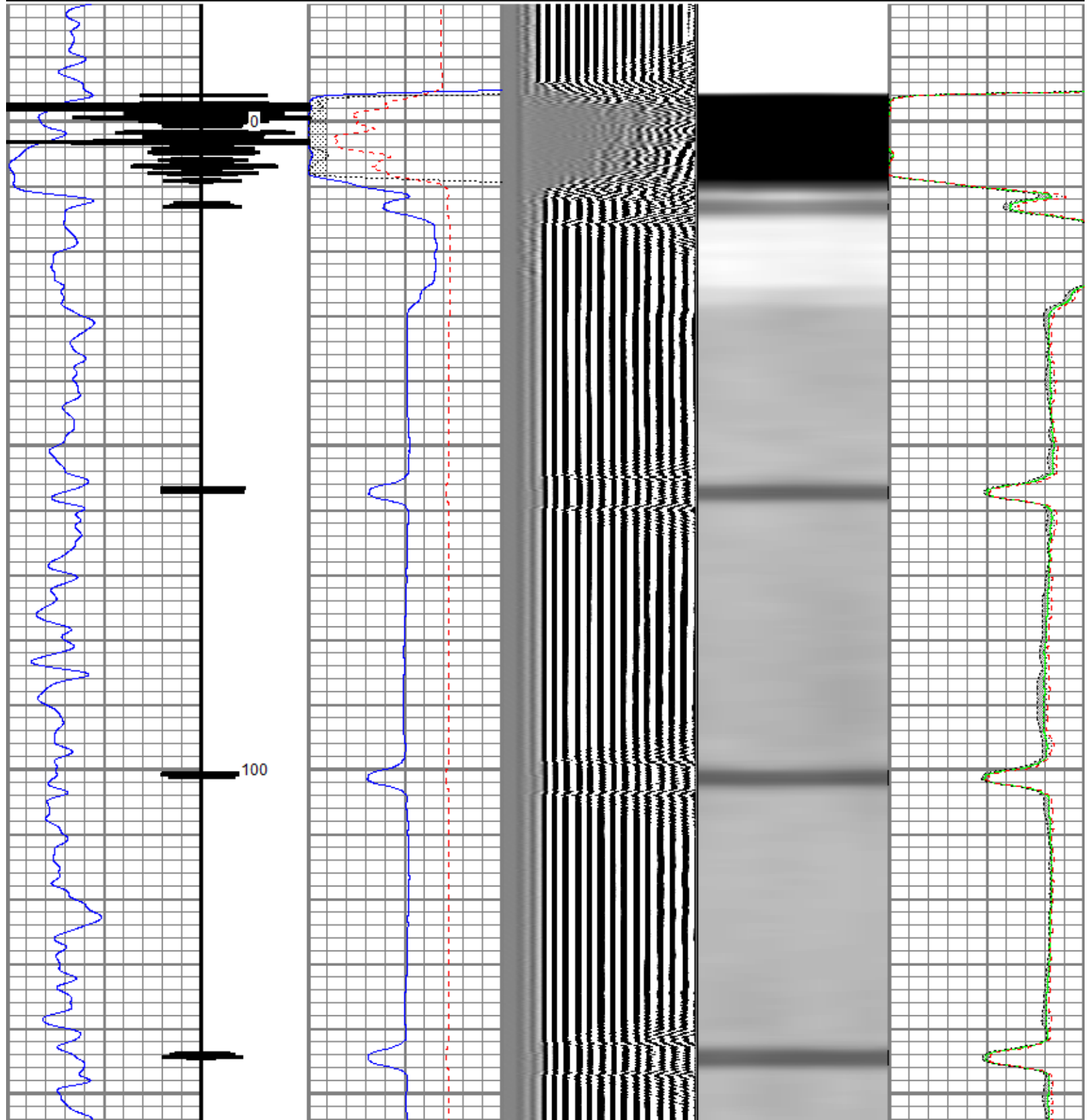
Thank you for choosing FMC Technologies Completion Services

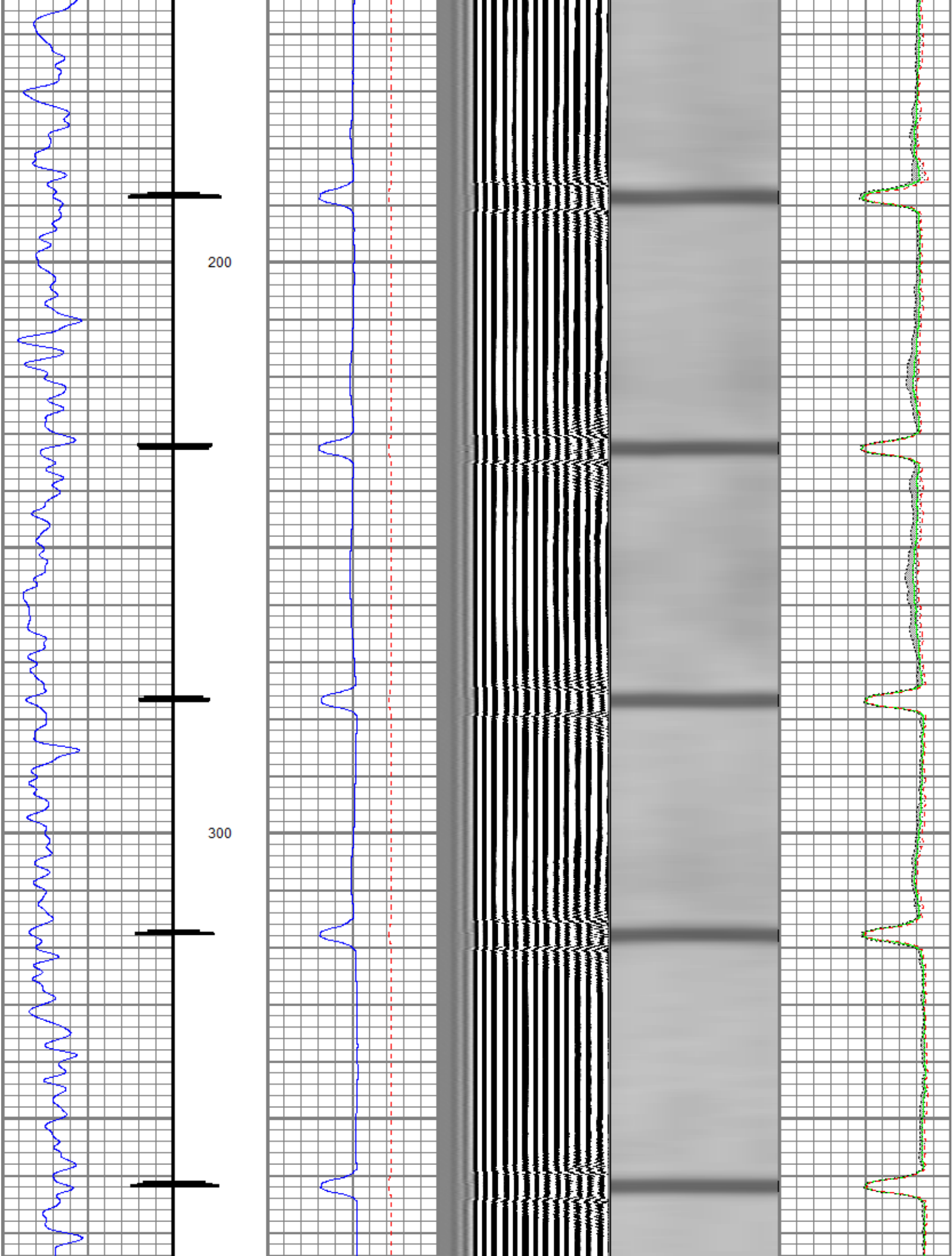
Main Pass

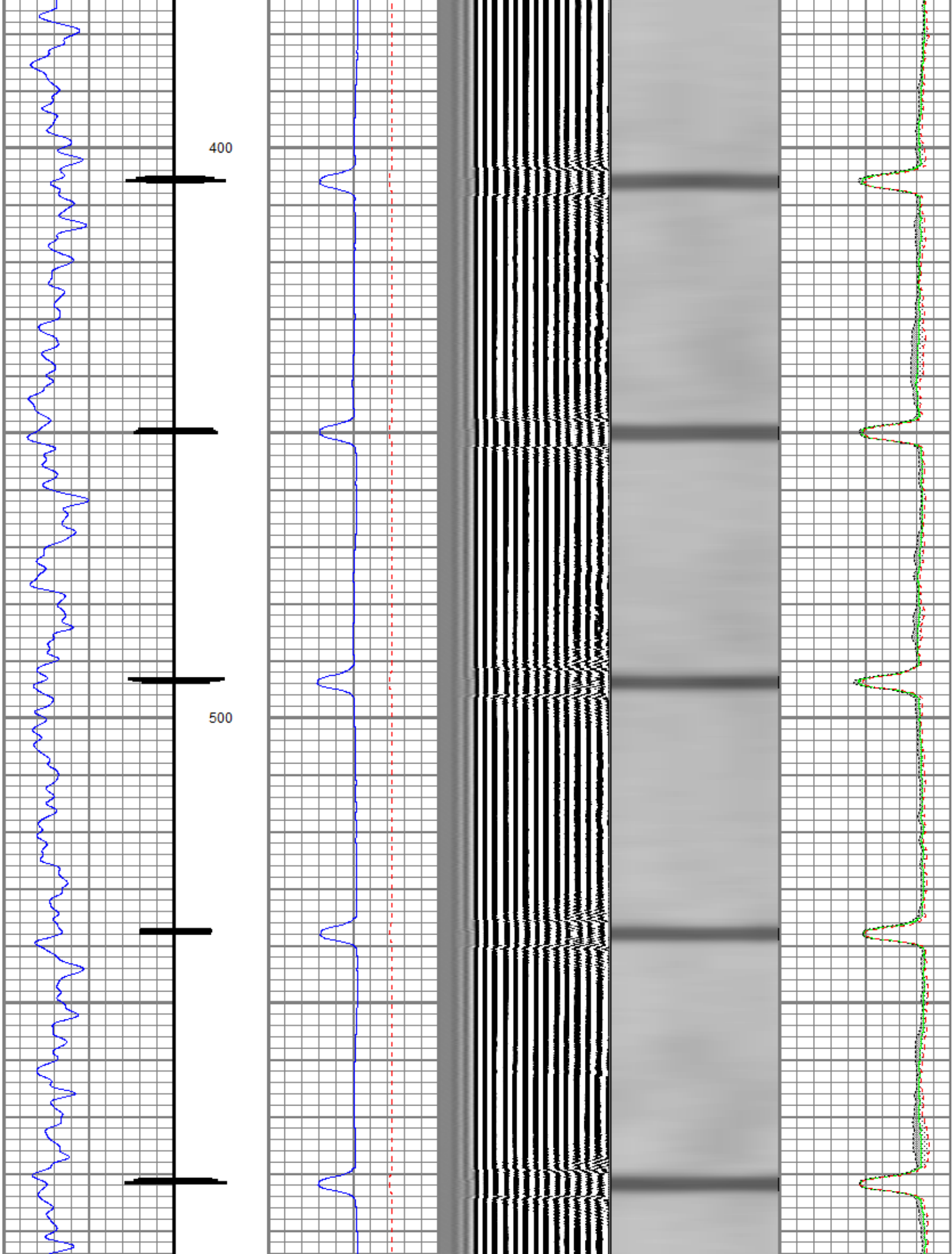


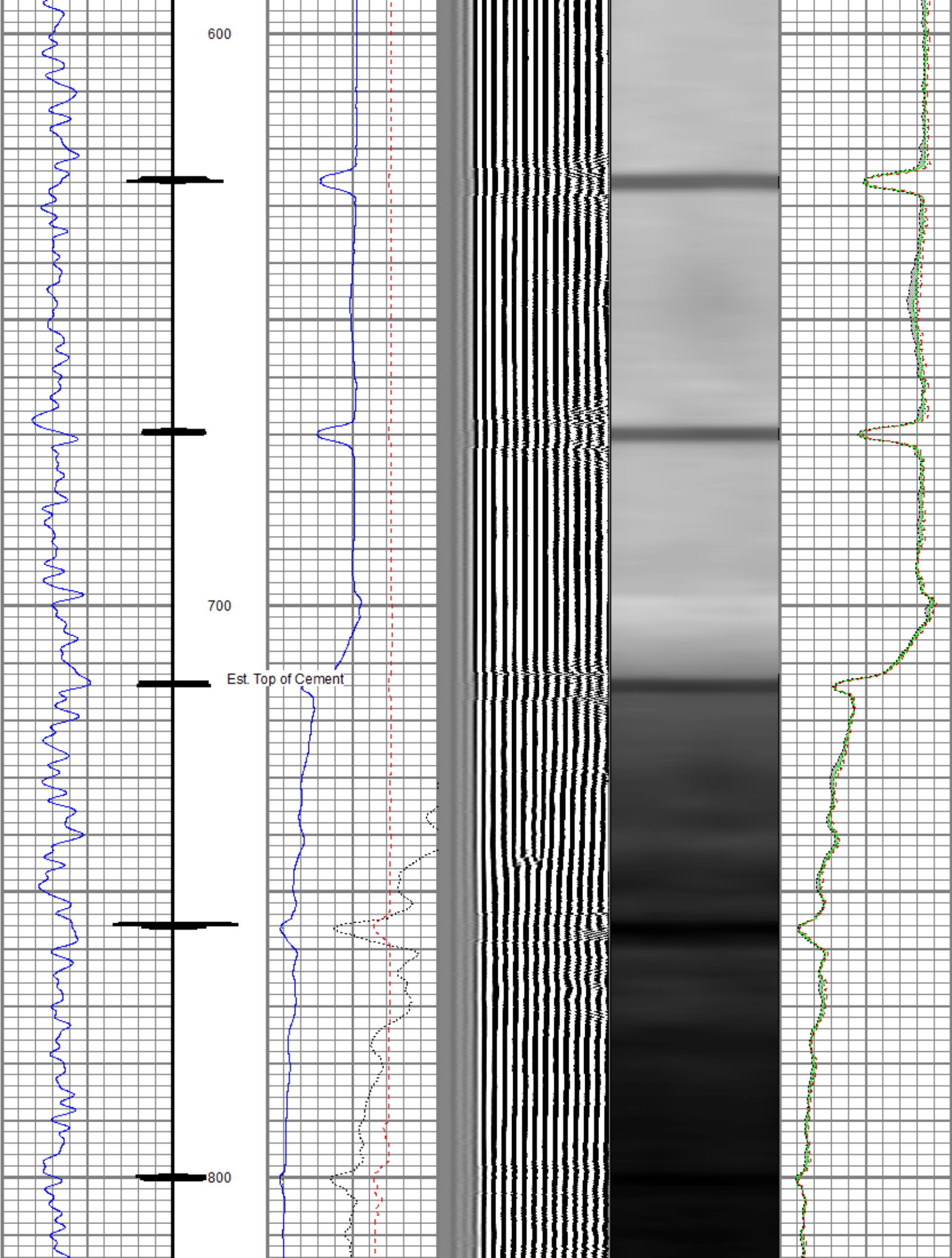
Database File: kmg_farley 30n-23hz_rcblw7.db
 Dataset Pathname: pass5
 Presentation Format: rbt007
 Dataset Creation: Sun Sep 08 13:40:43 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

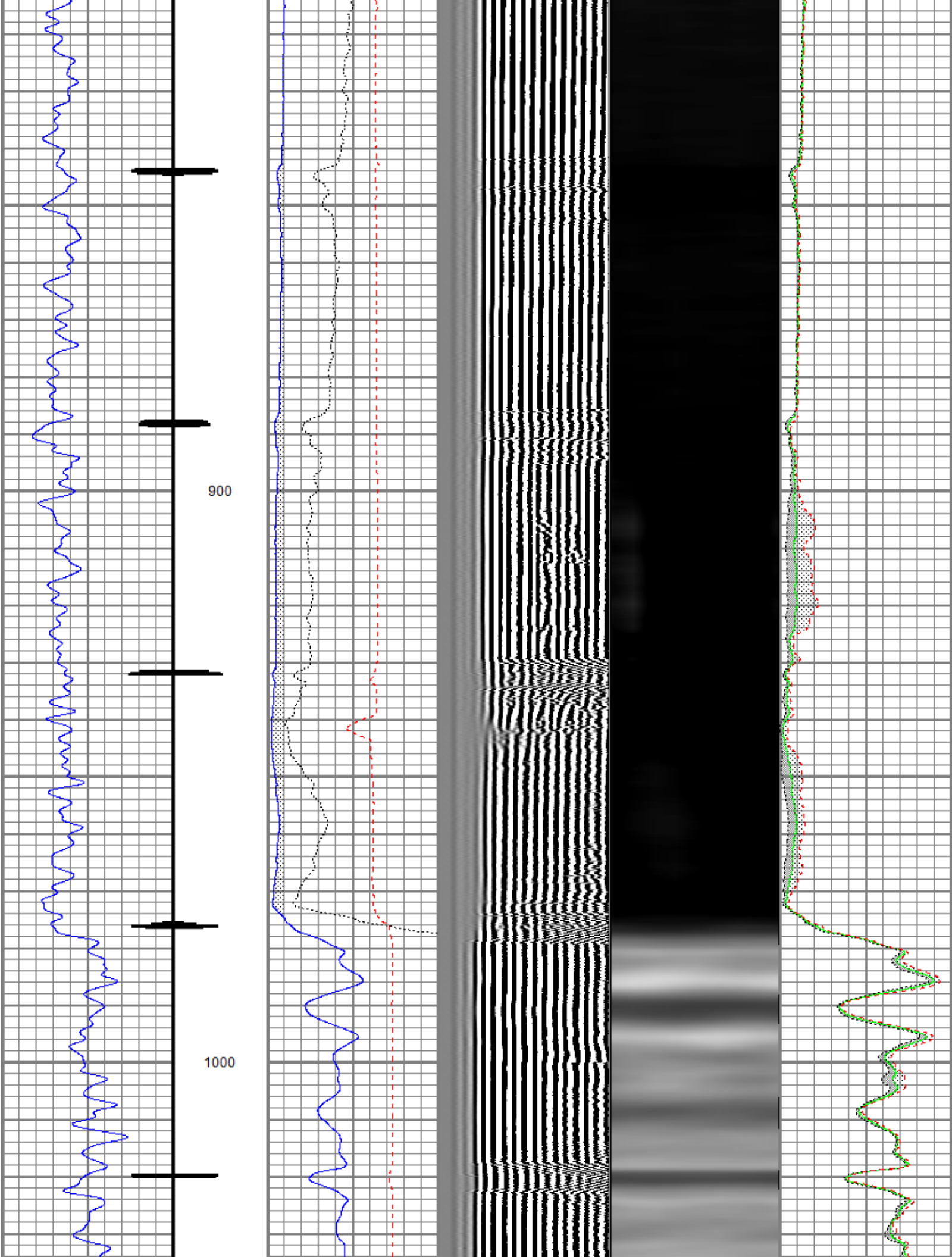
Gamma Ray	0	CCL	5	0	3' Amplitude (mV)	100	5' Variable Density Log		Sector Map	0	Average Amplitude	100
(GAPI)	150				3' Amplitude x 5		200	1200	10	110	Minimum Amplitude	
Collar Locator				0	(mV)	20					0	100
					3' Travel Time						Maximum Amplitude	
				650	(usec)	150					0	100

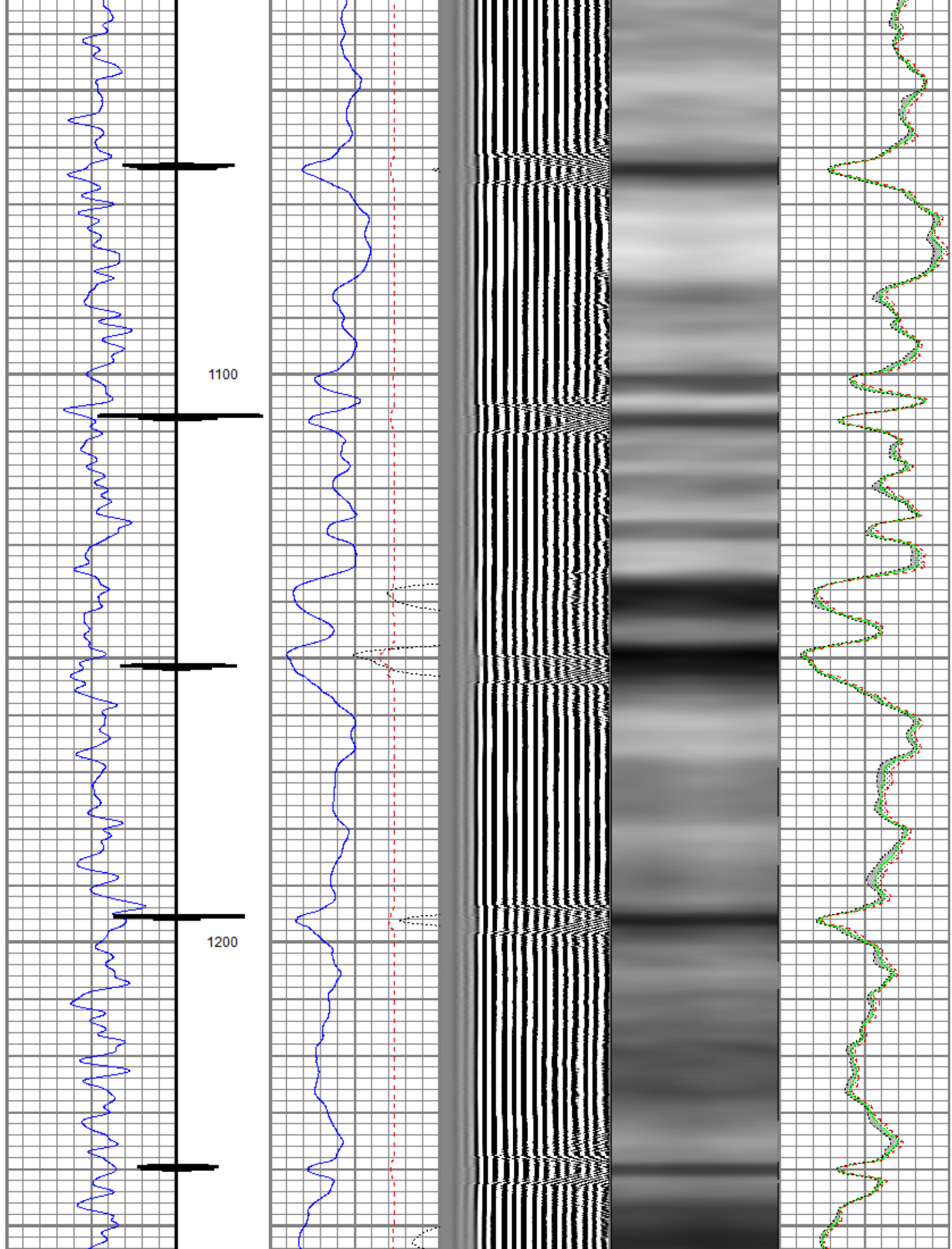


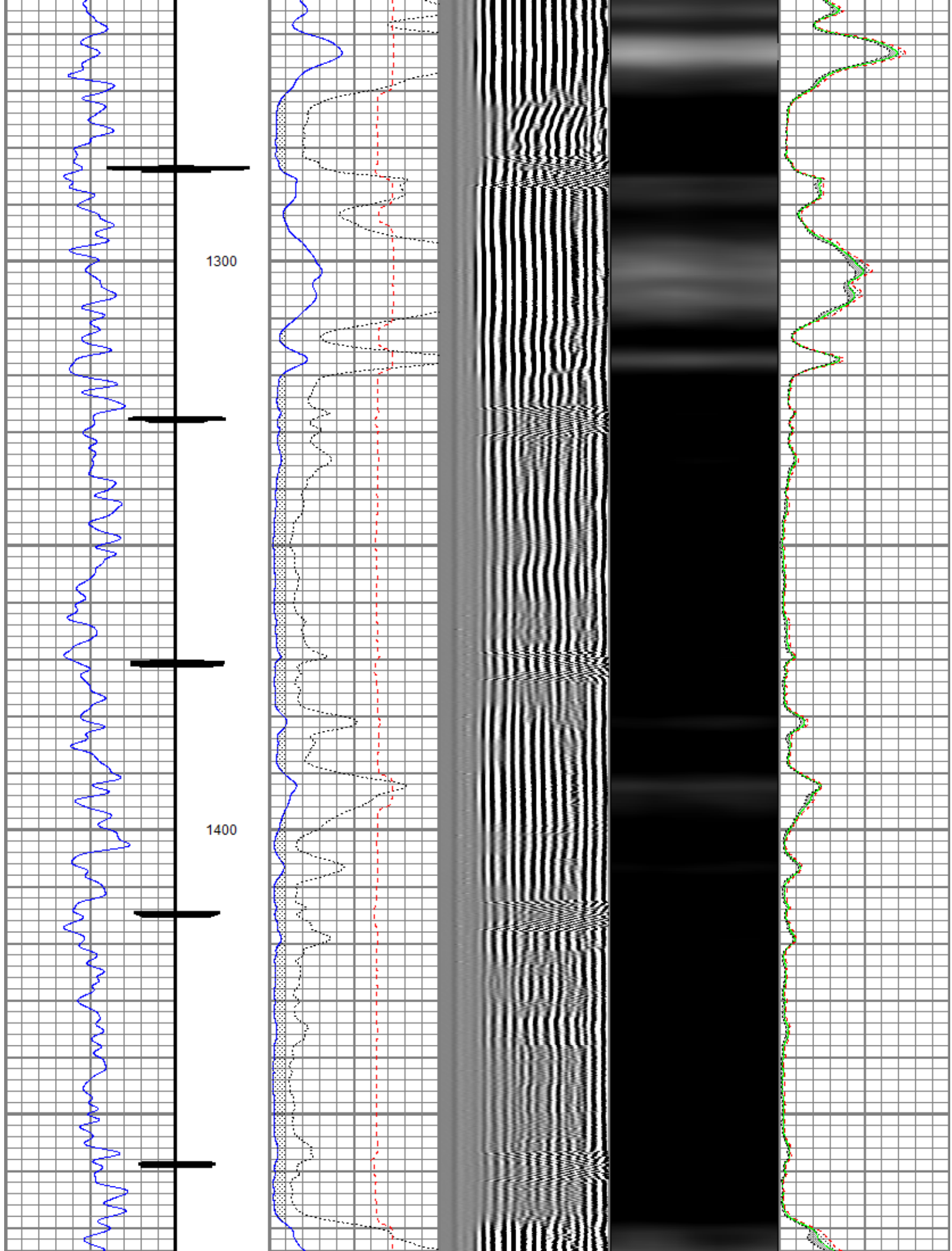


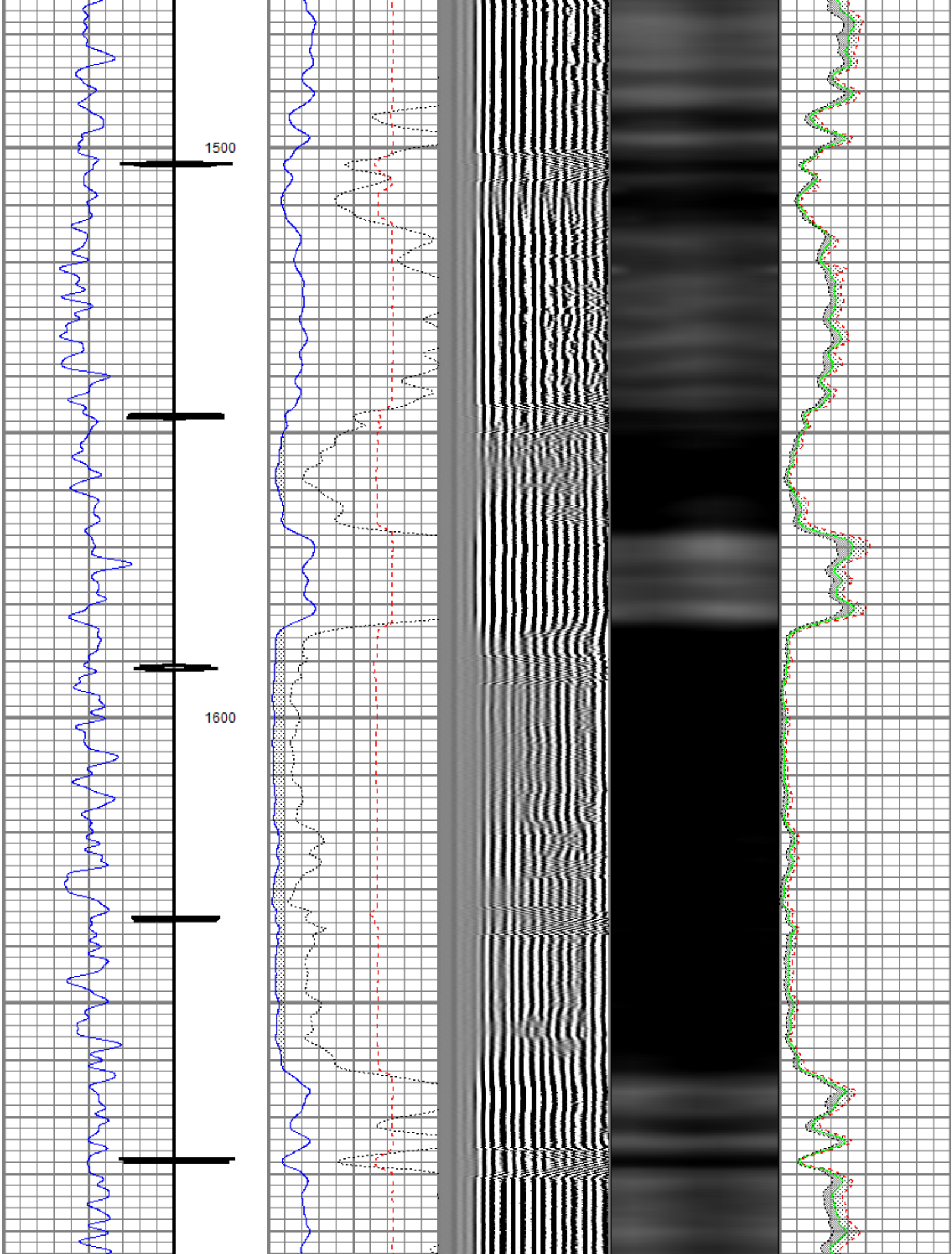


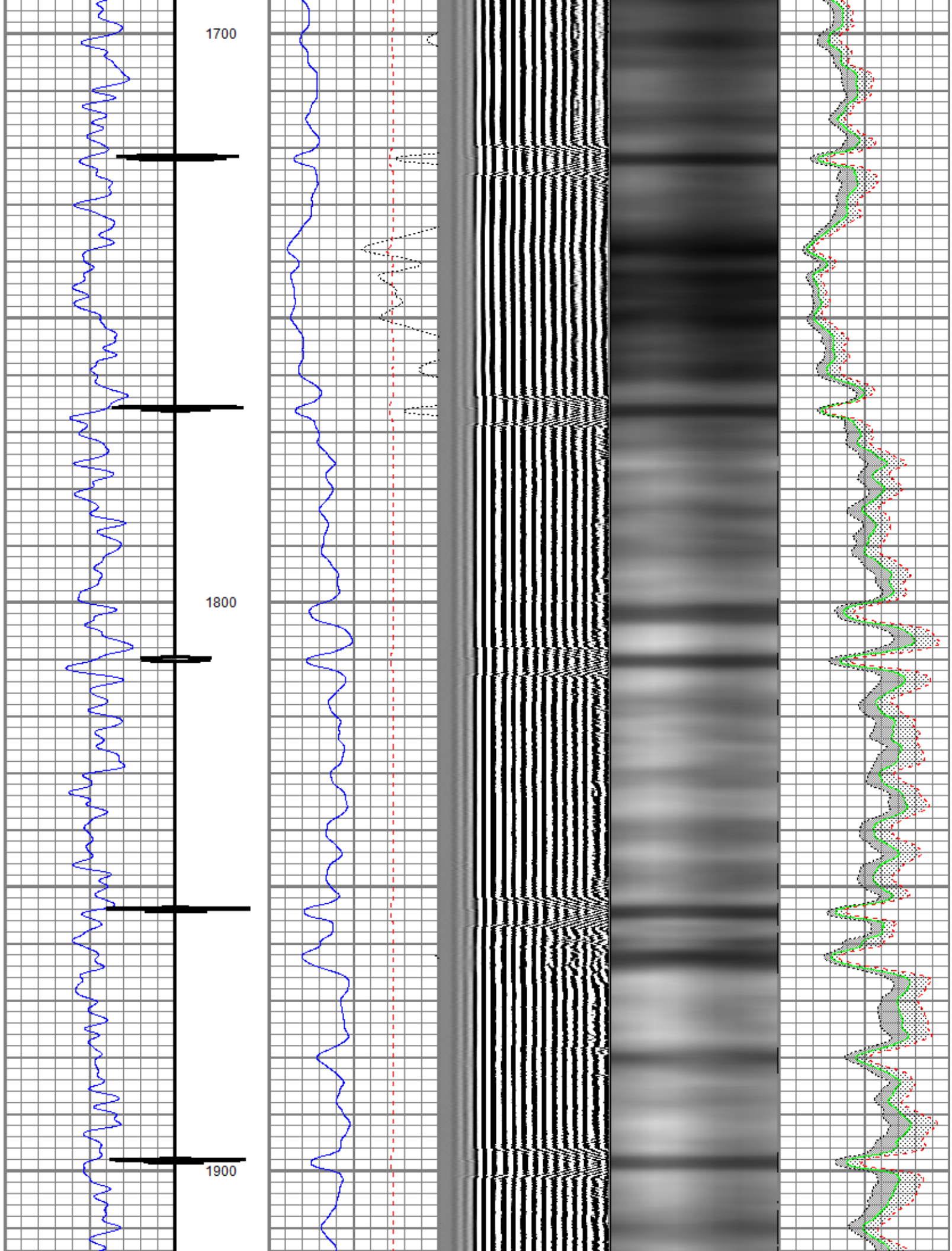


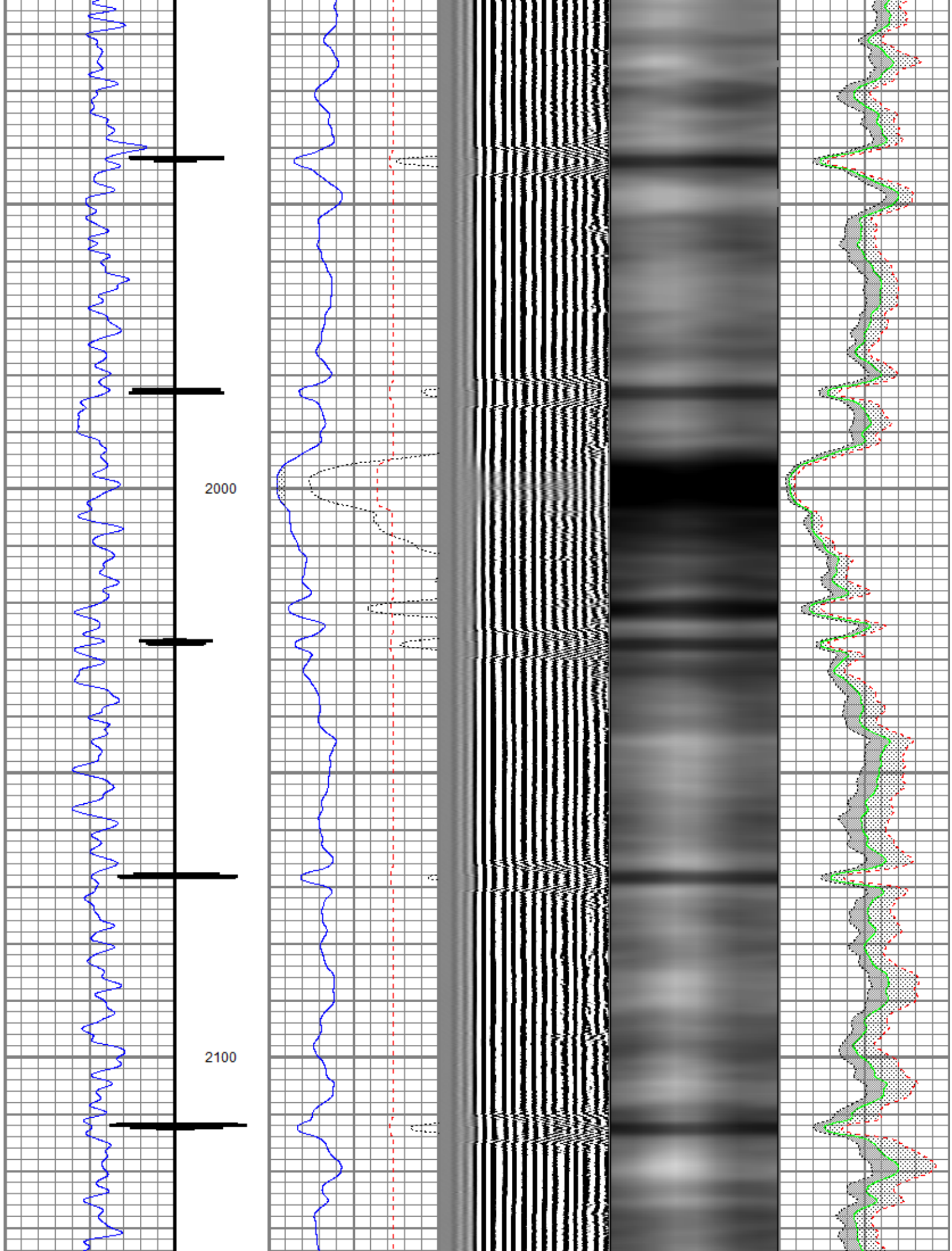


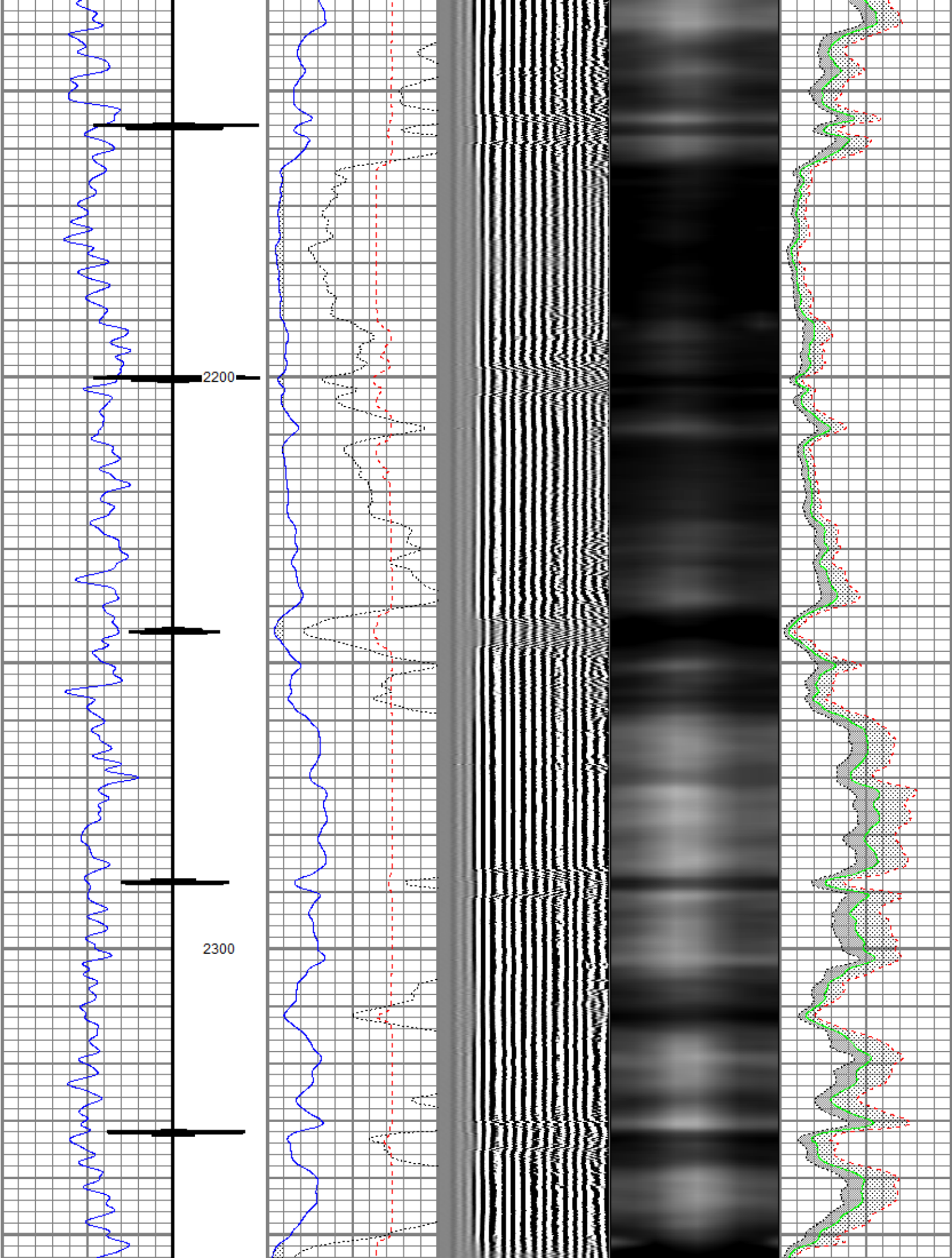


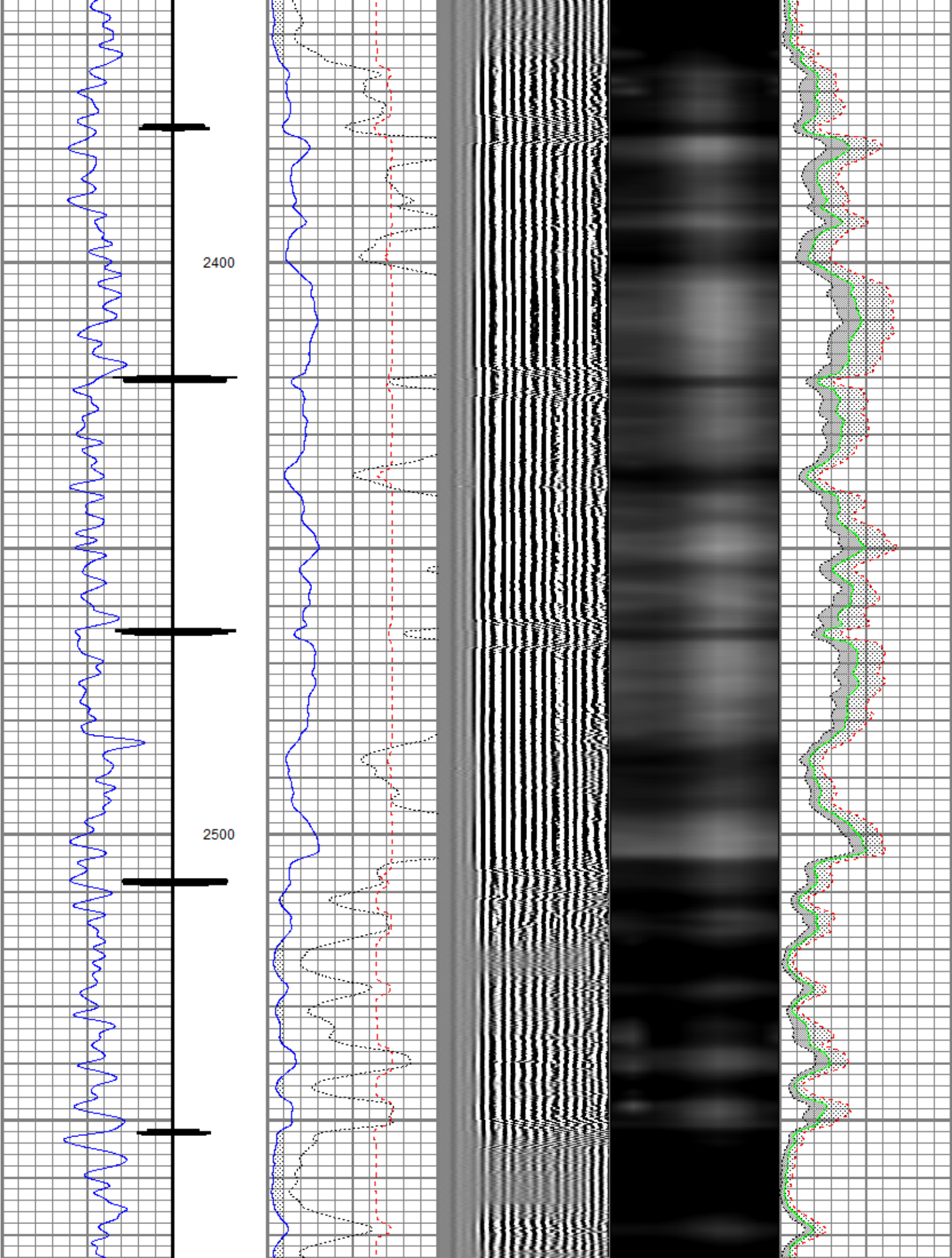


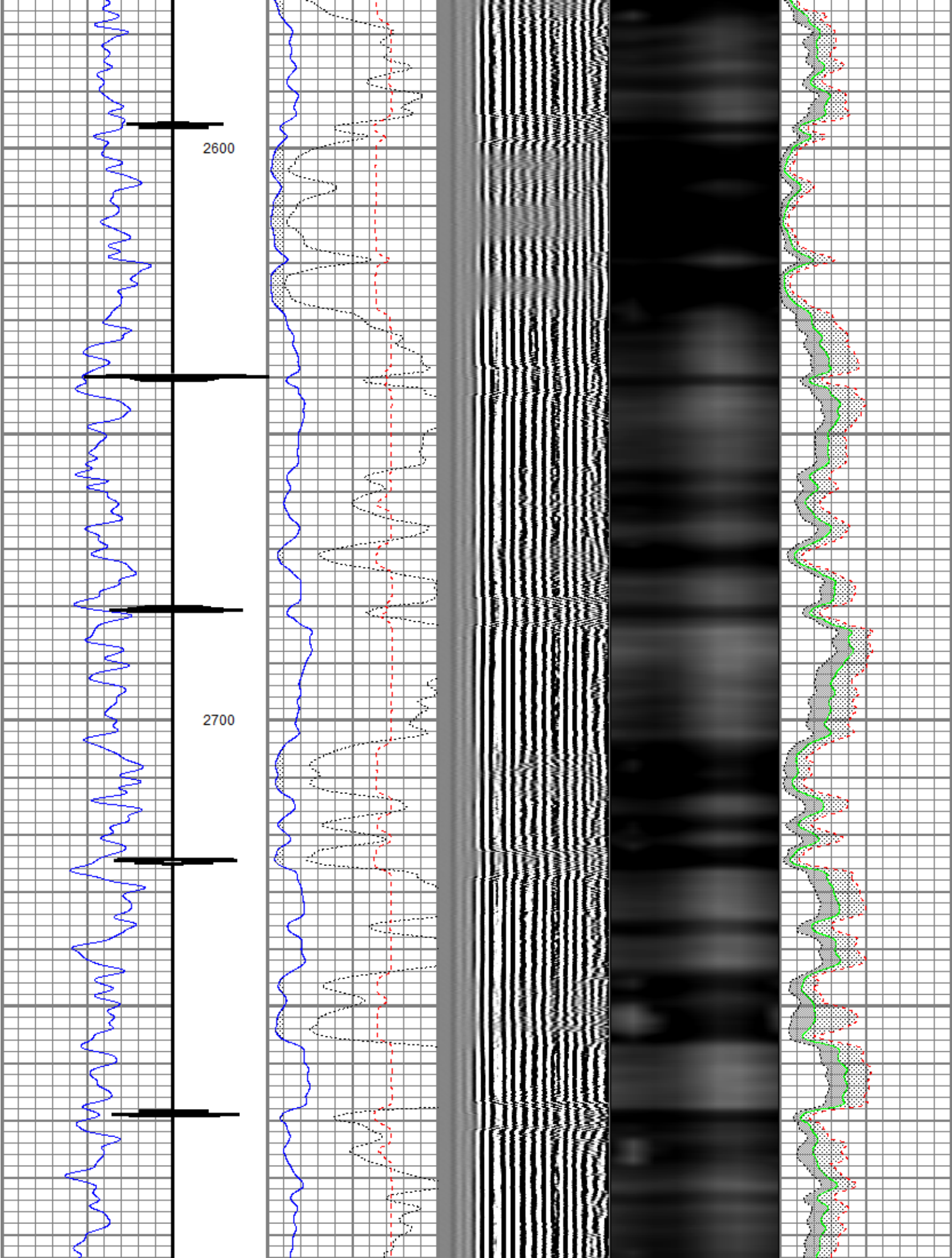


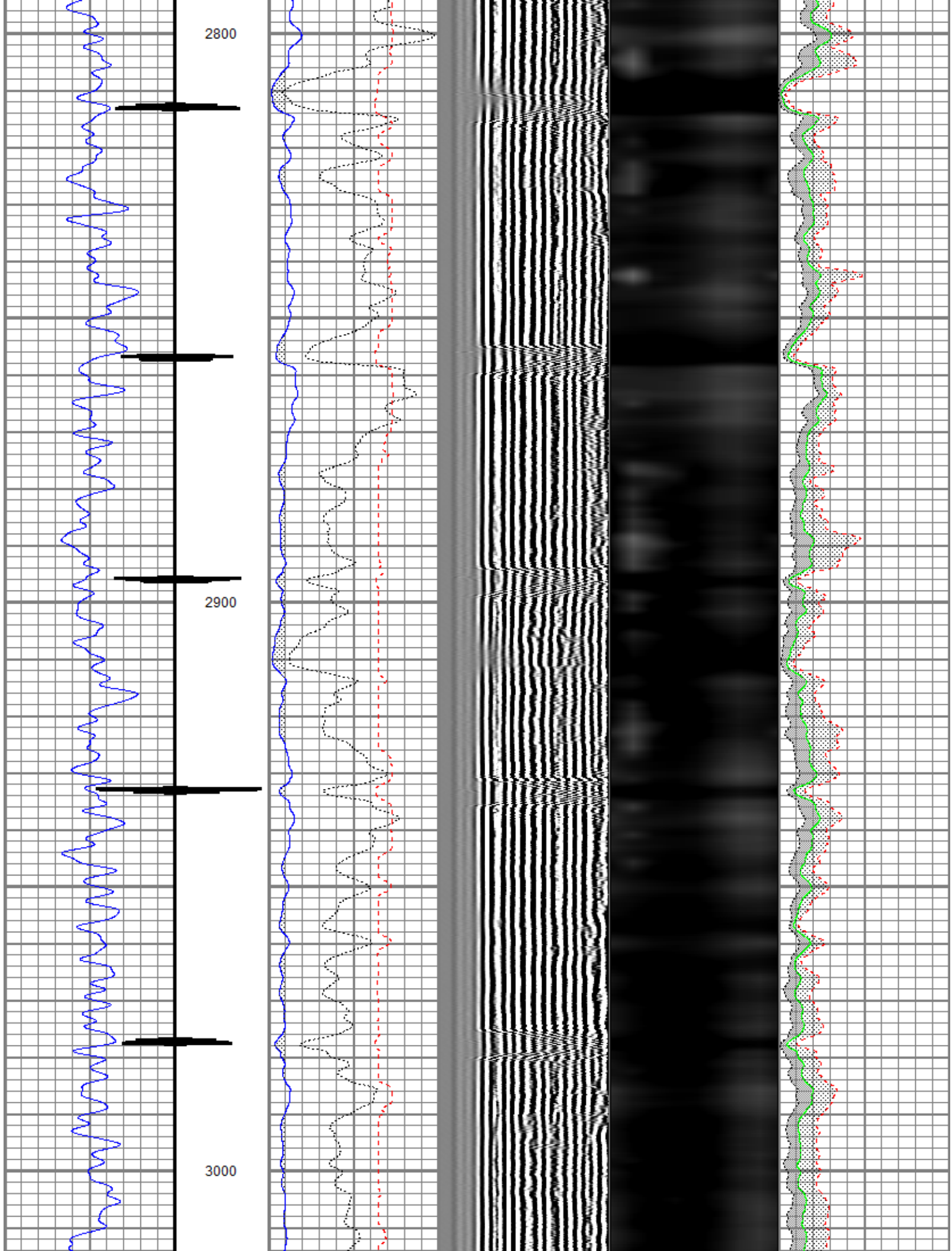


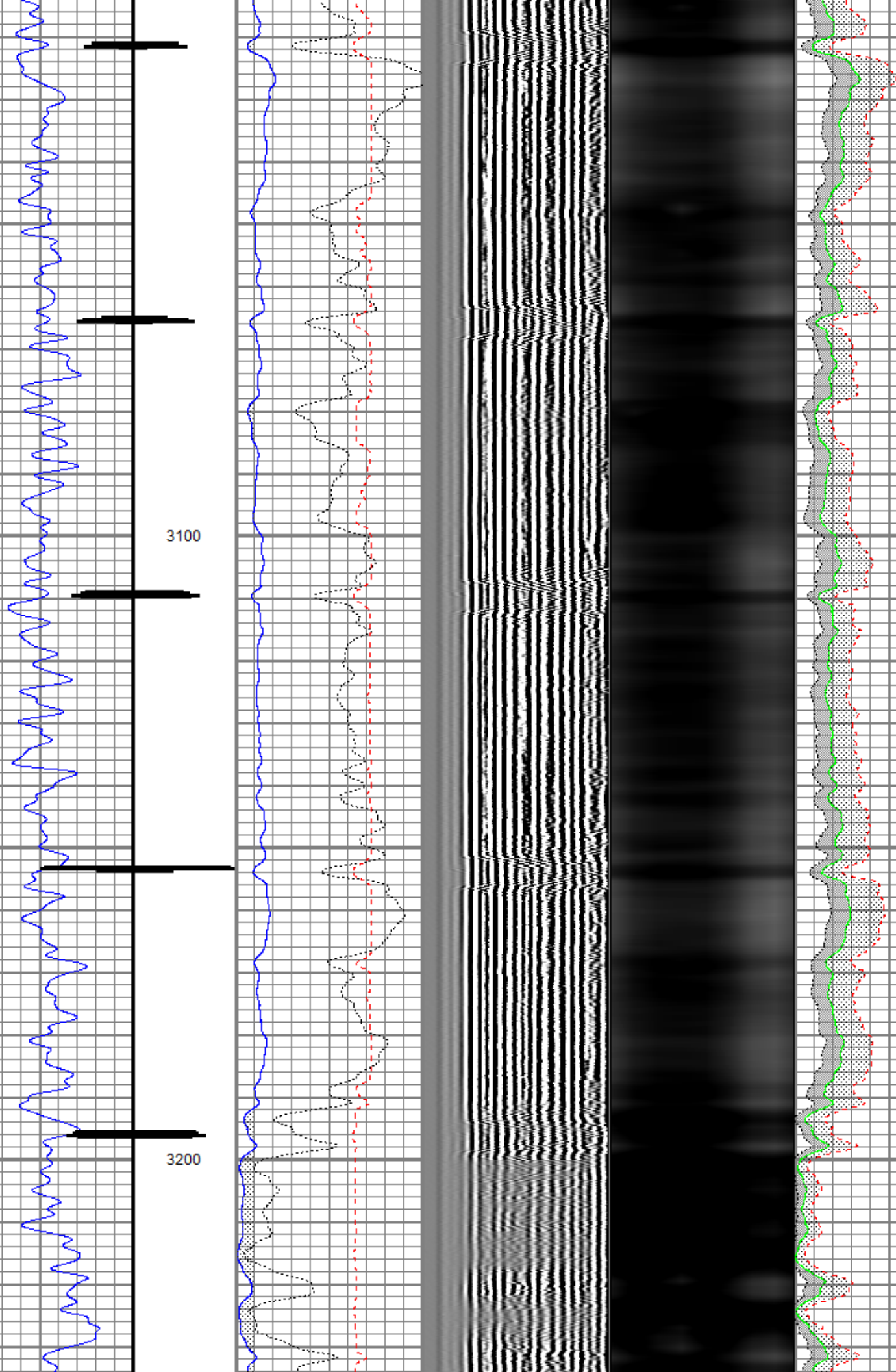


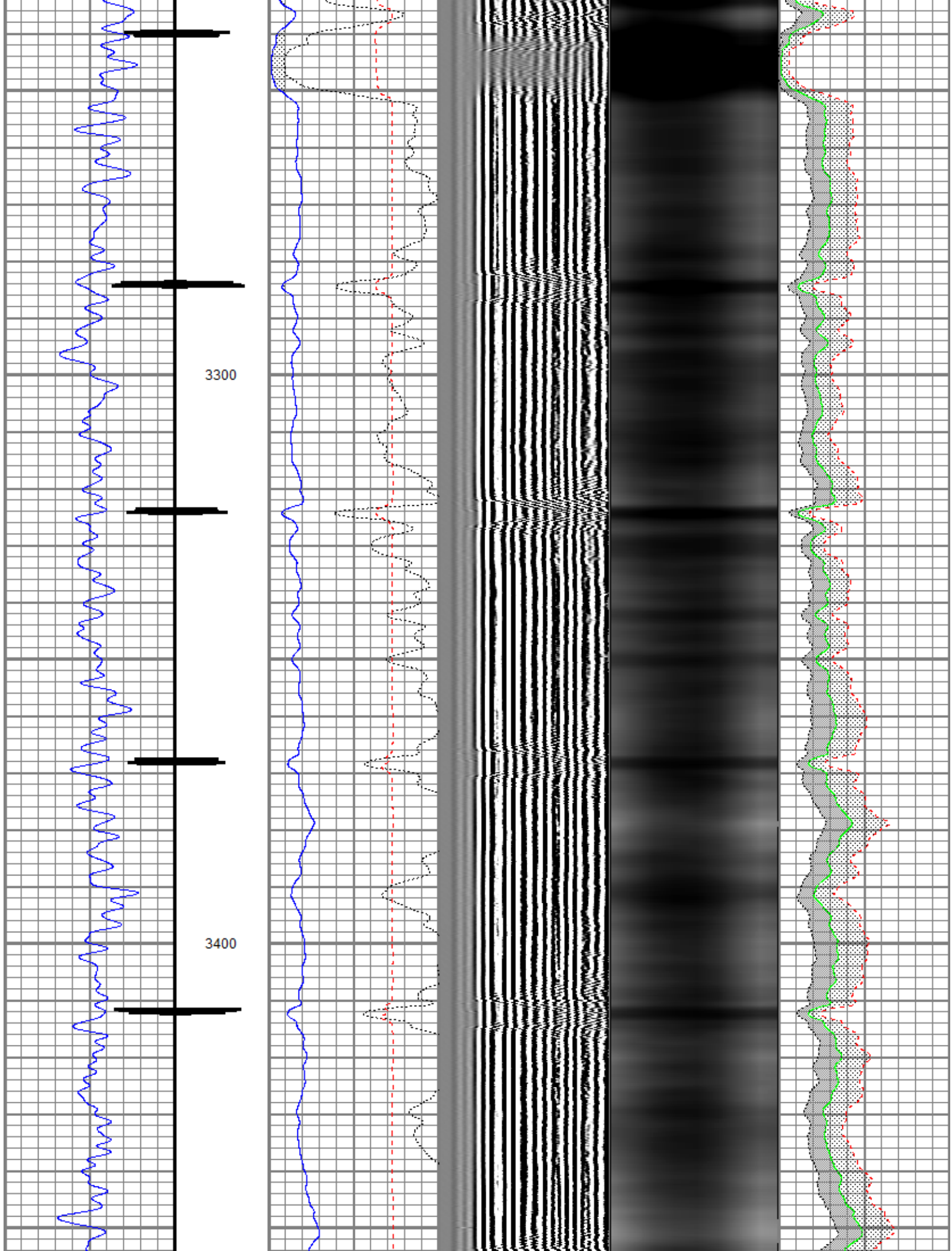


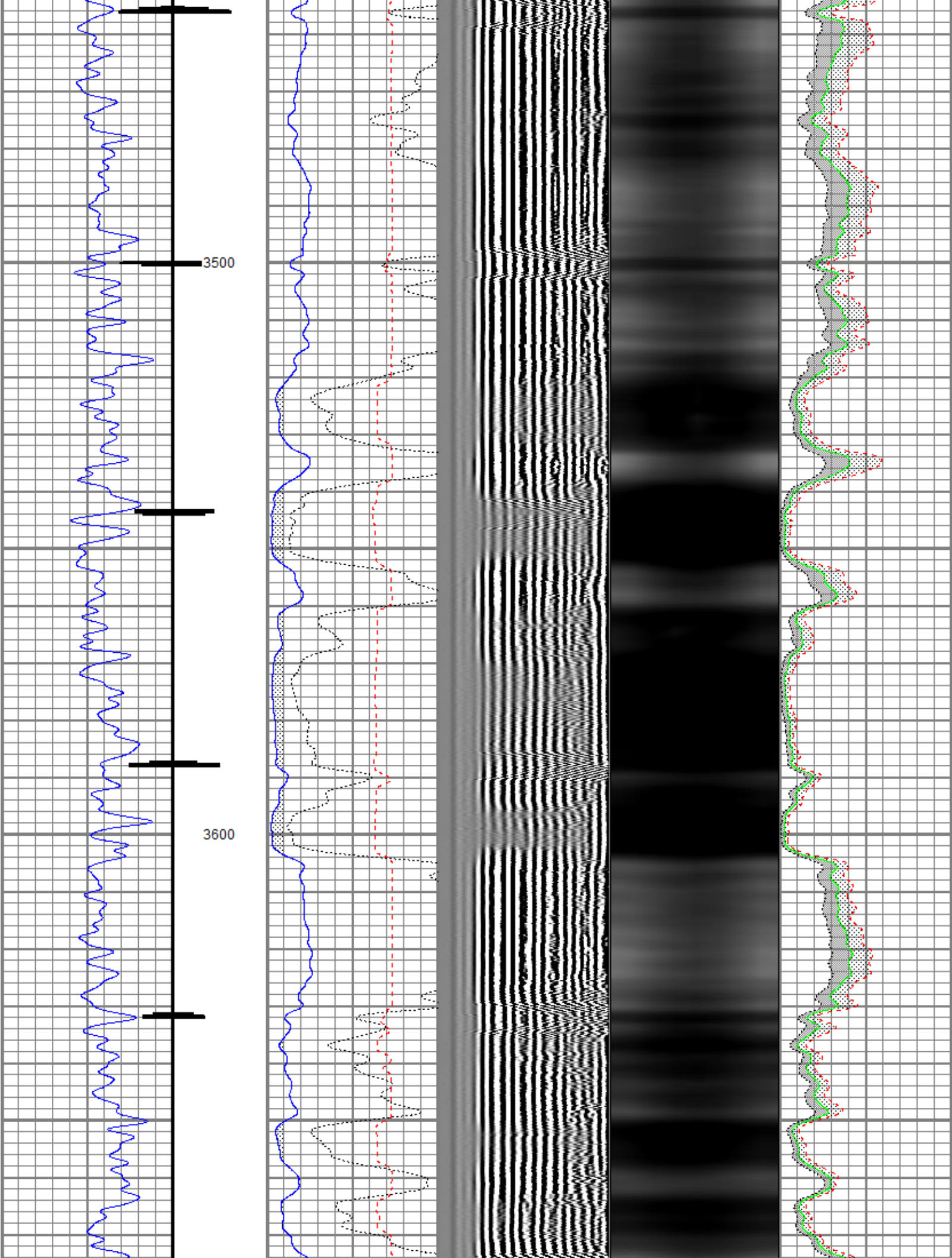


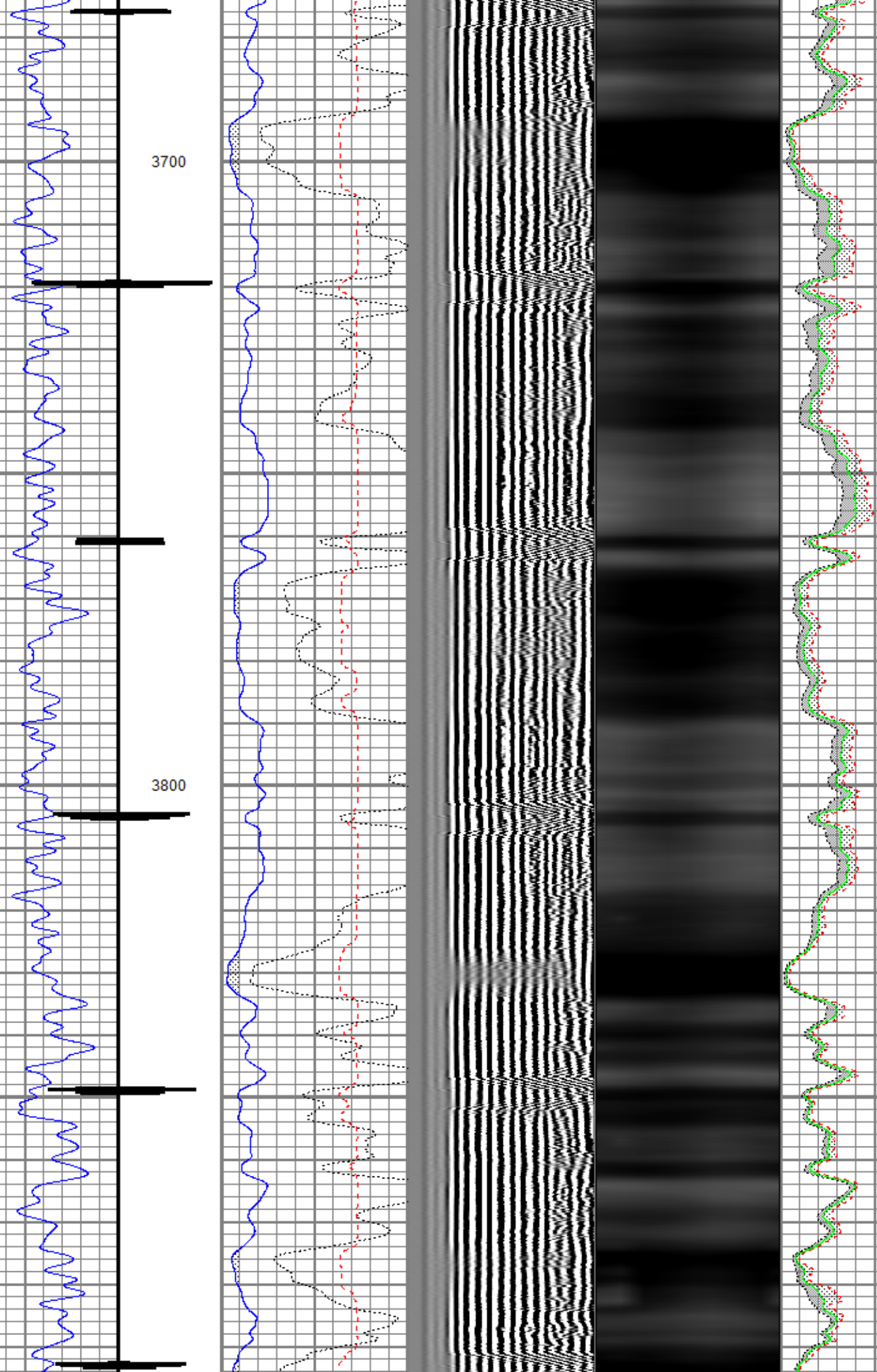


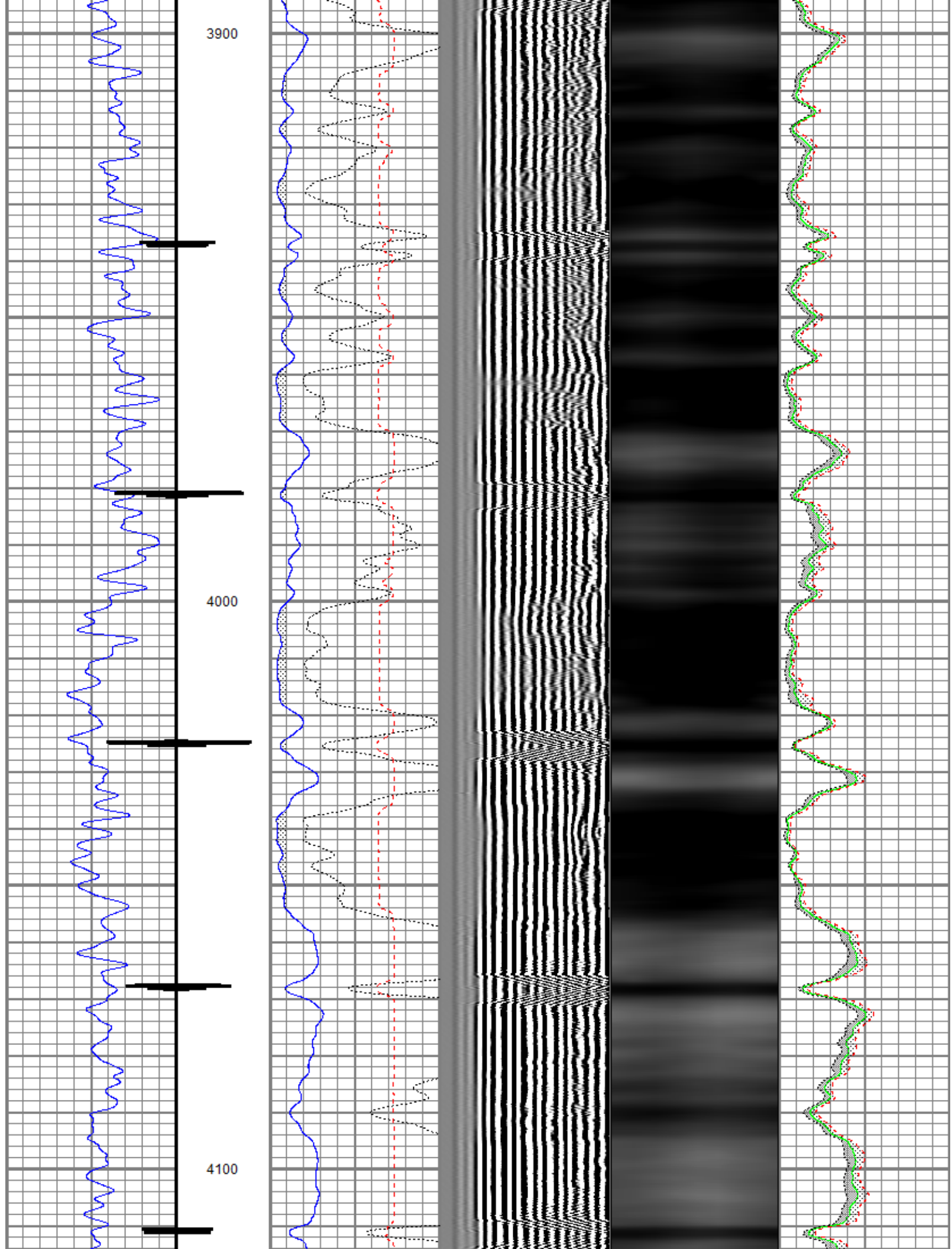


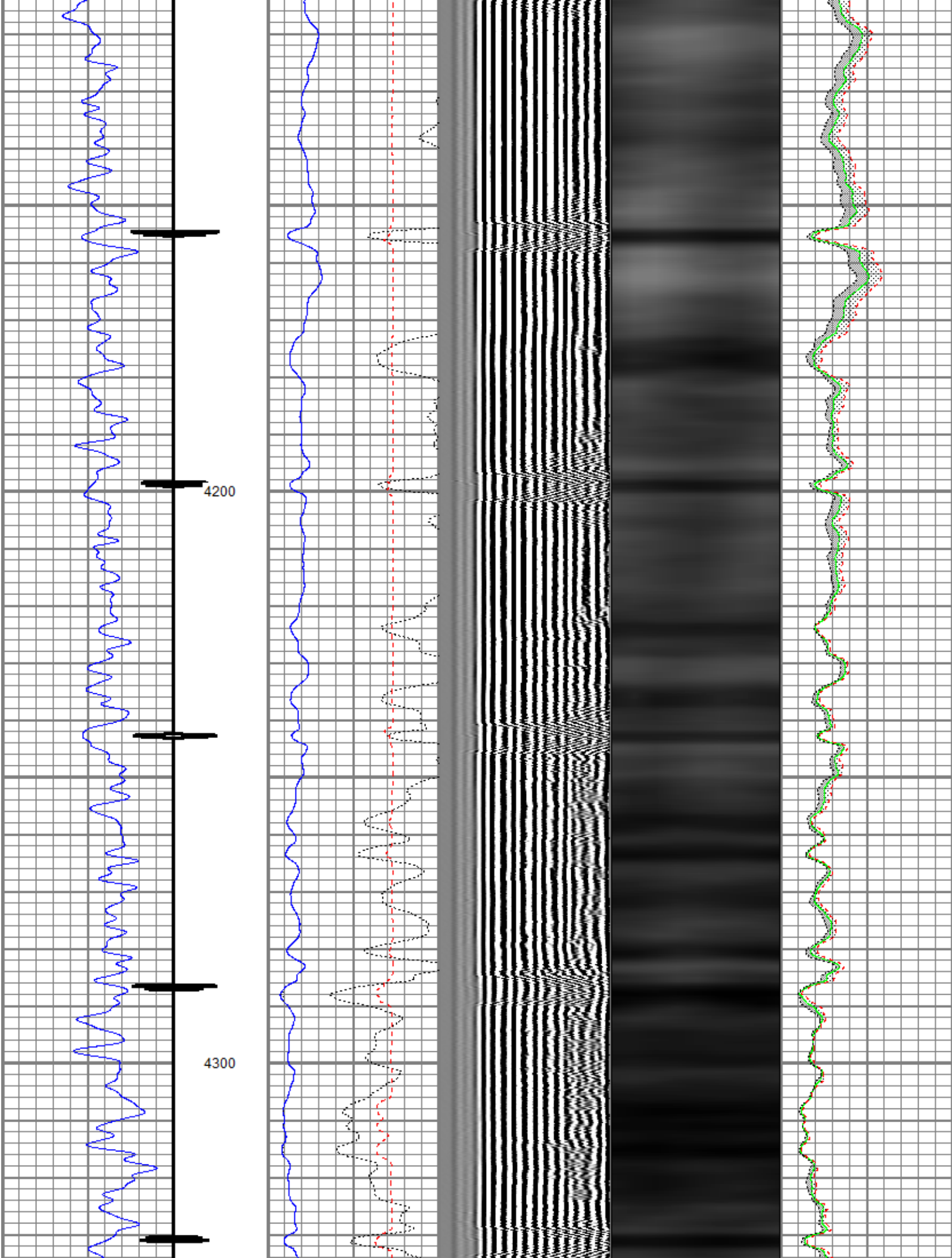


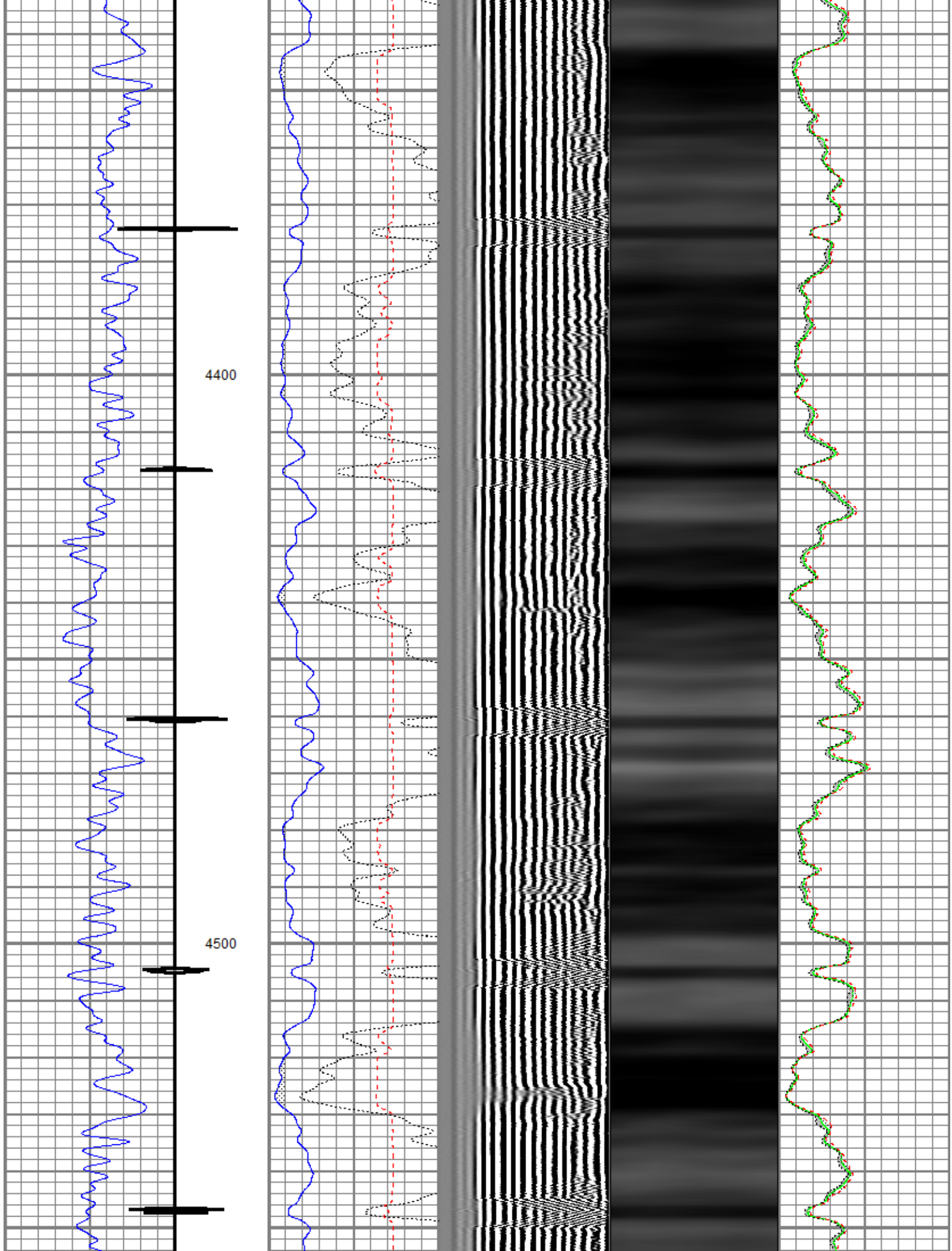


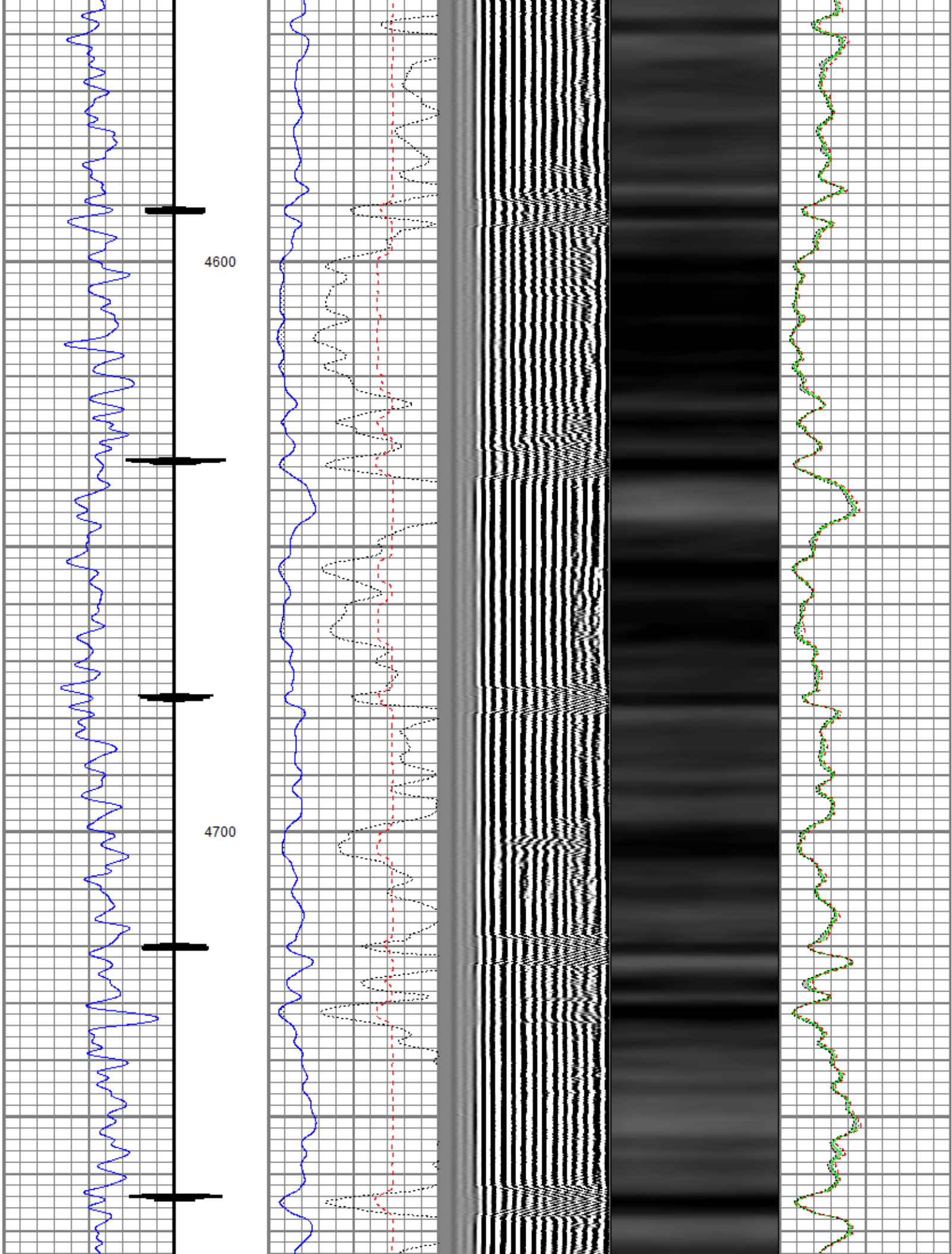


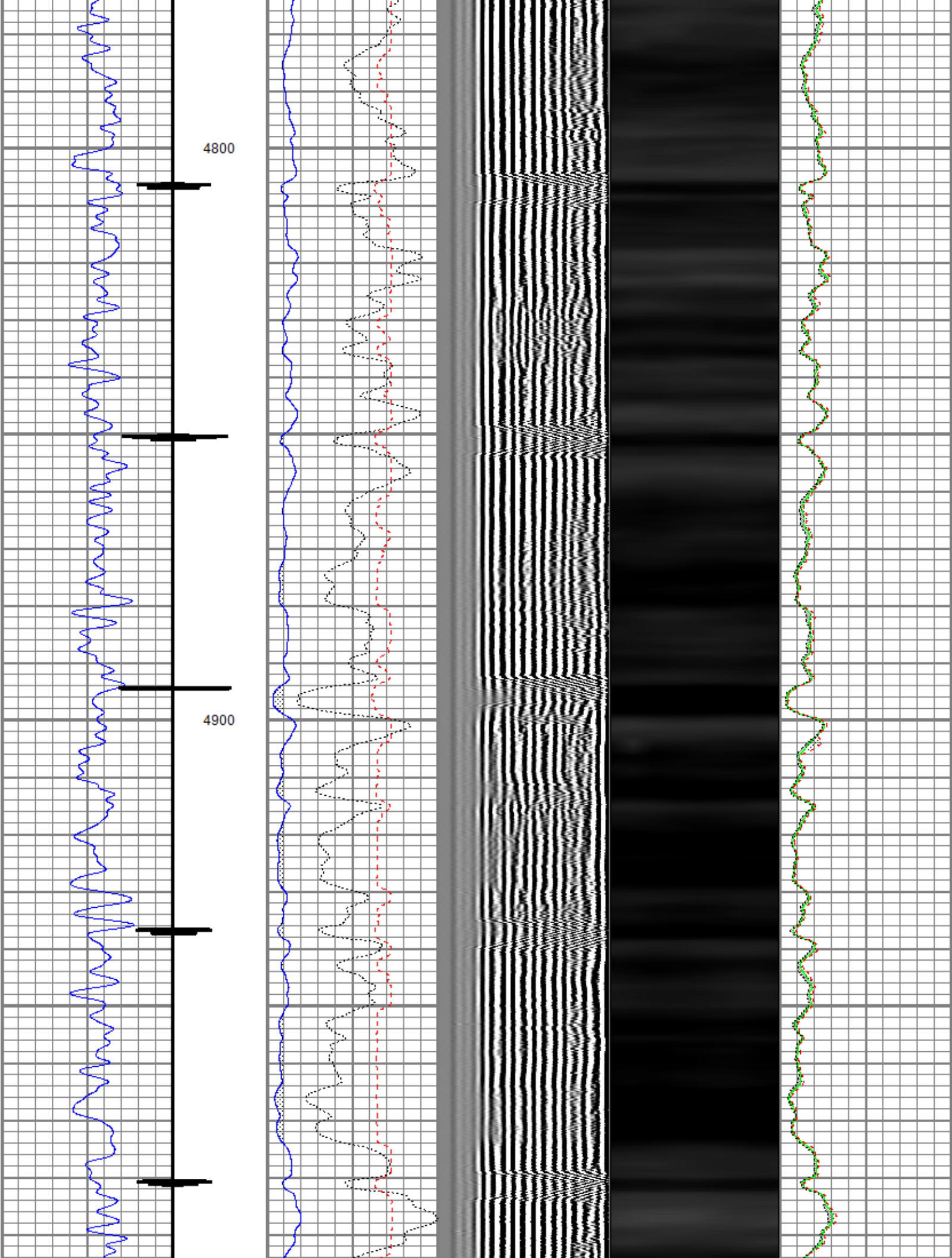


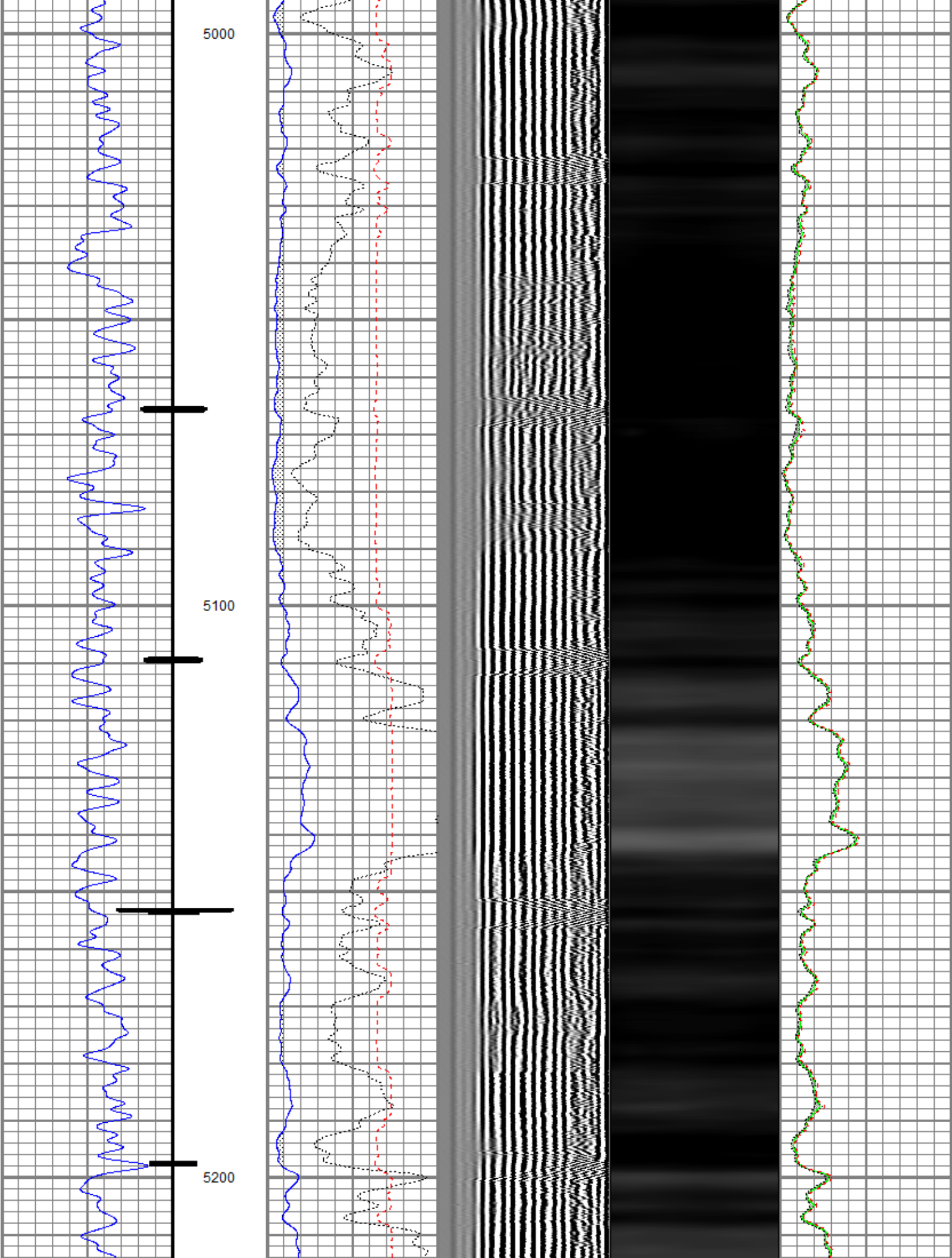


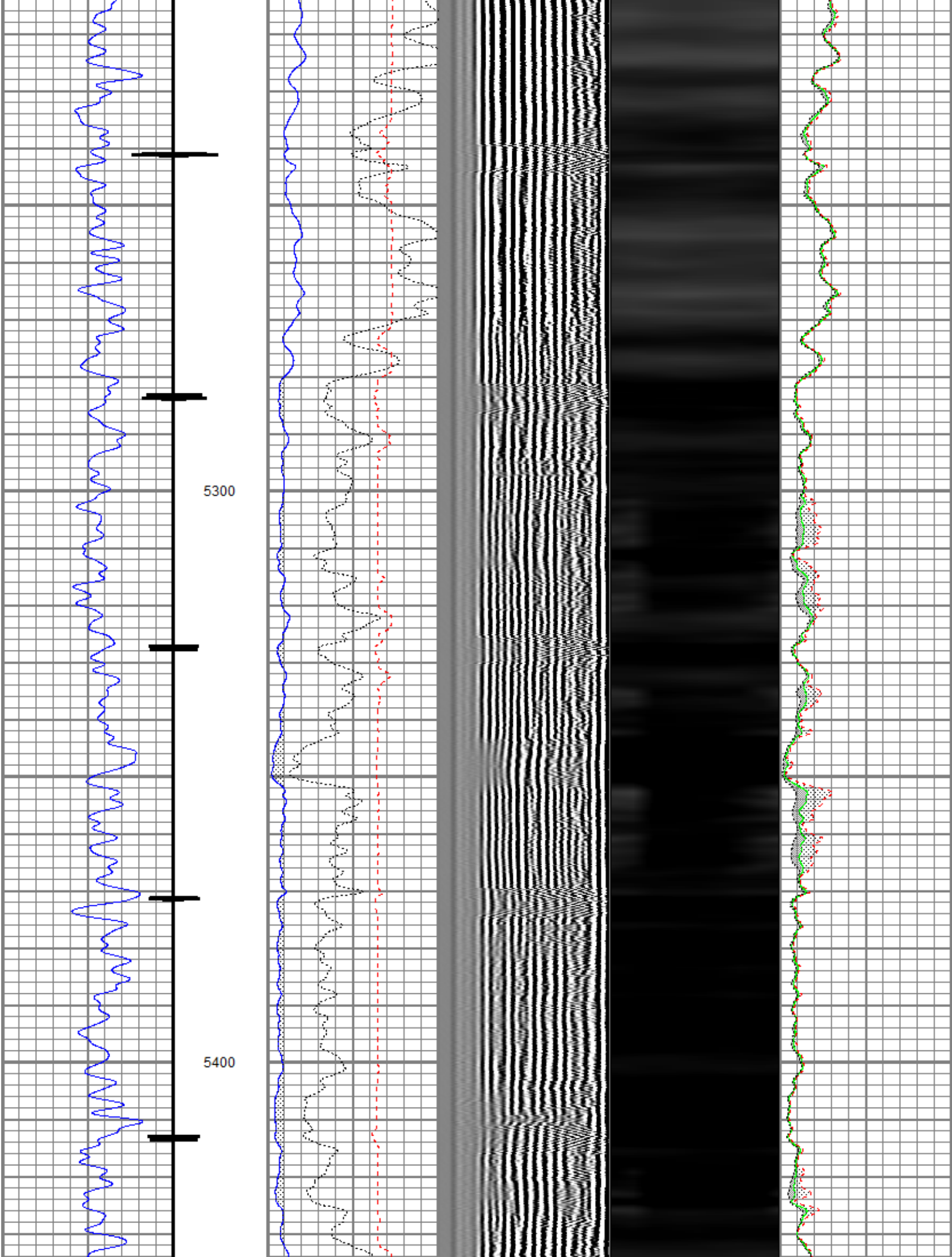


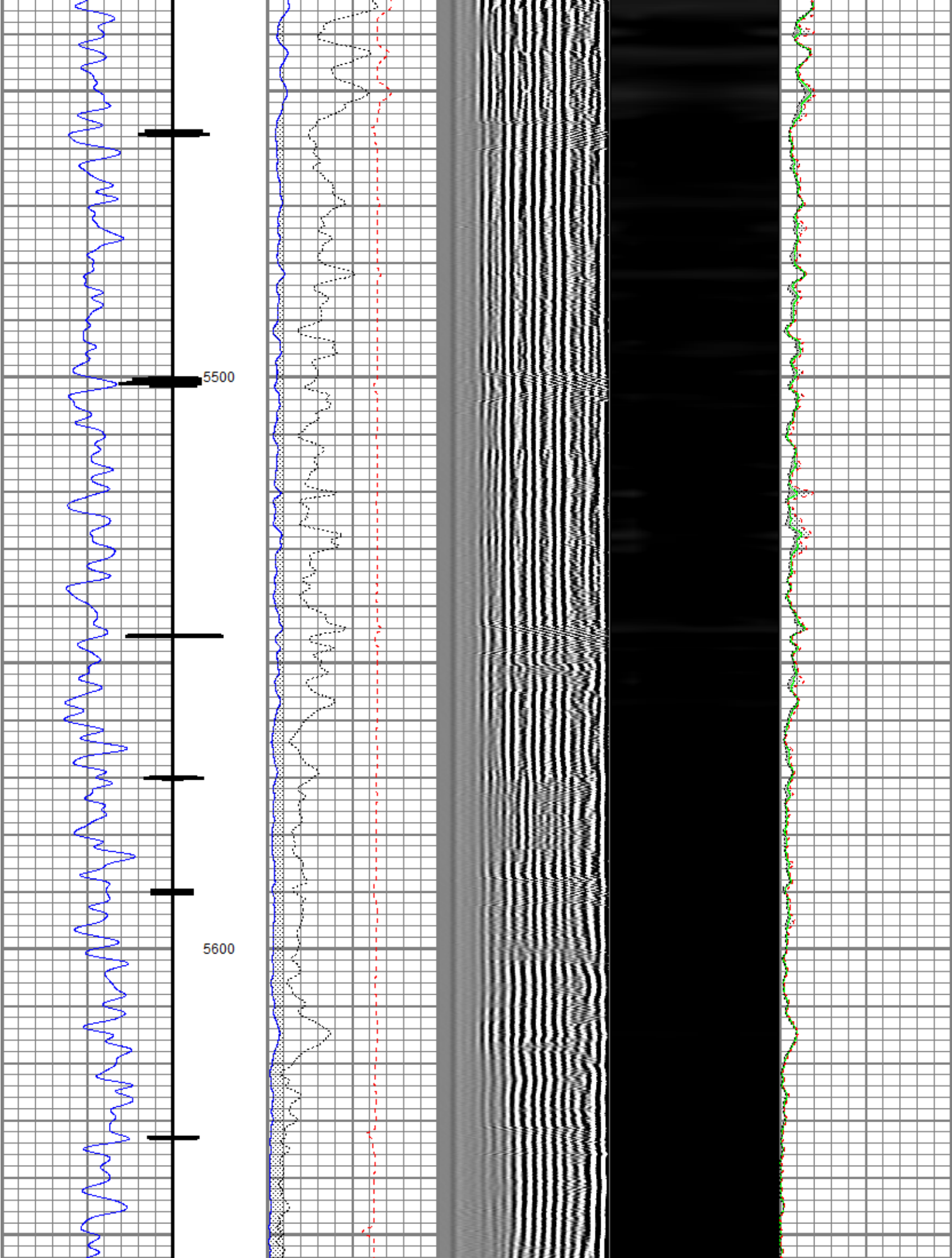


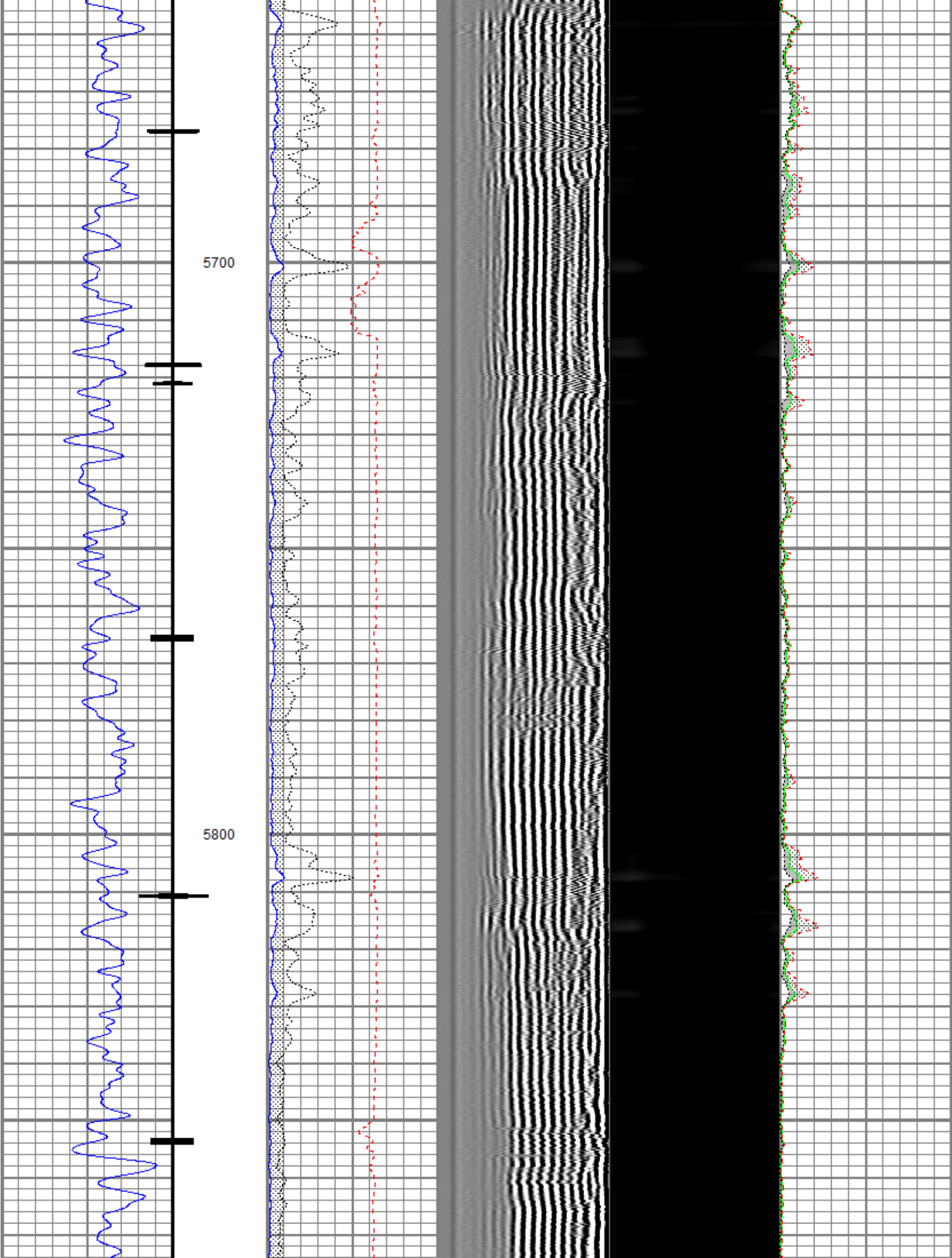


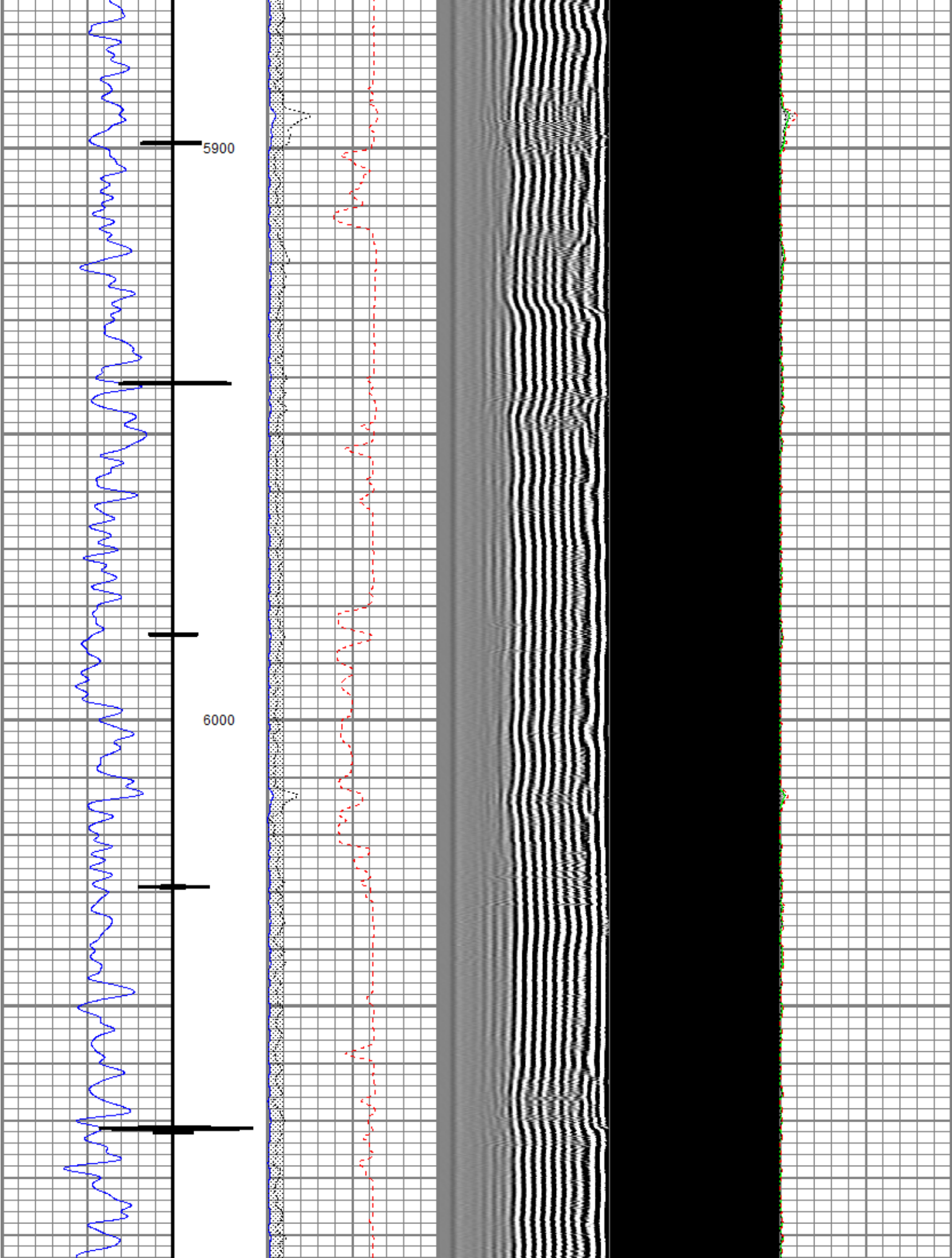


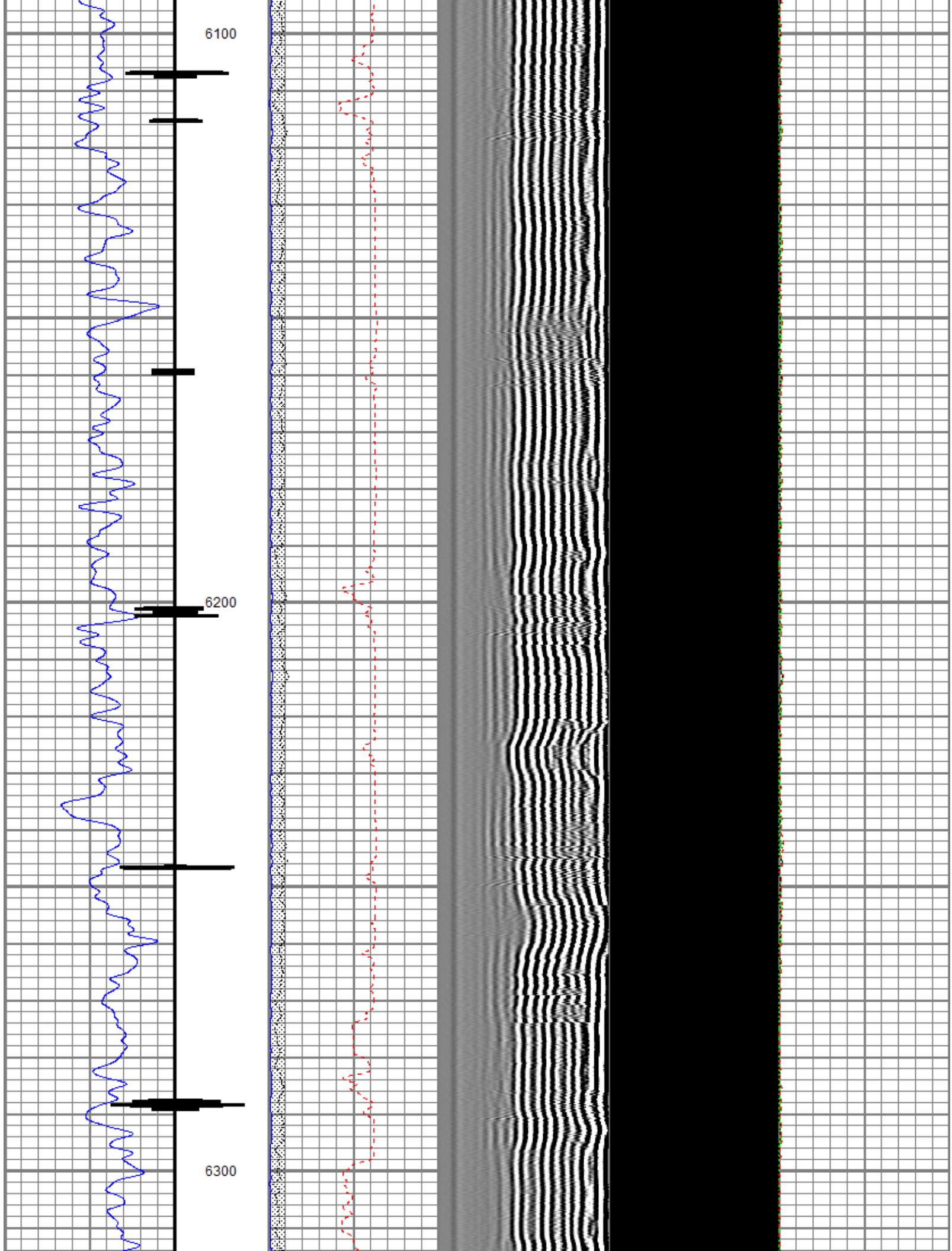


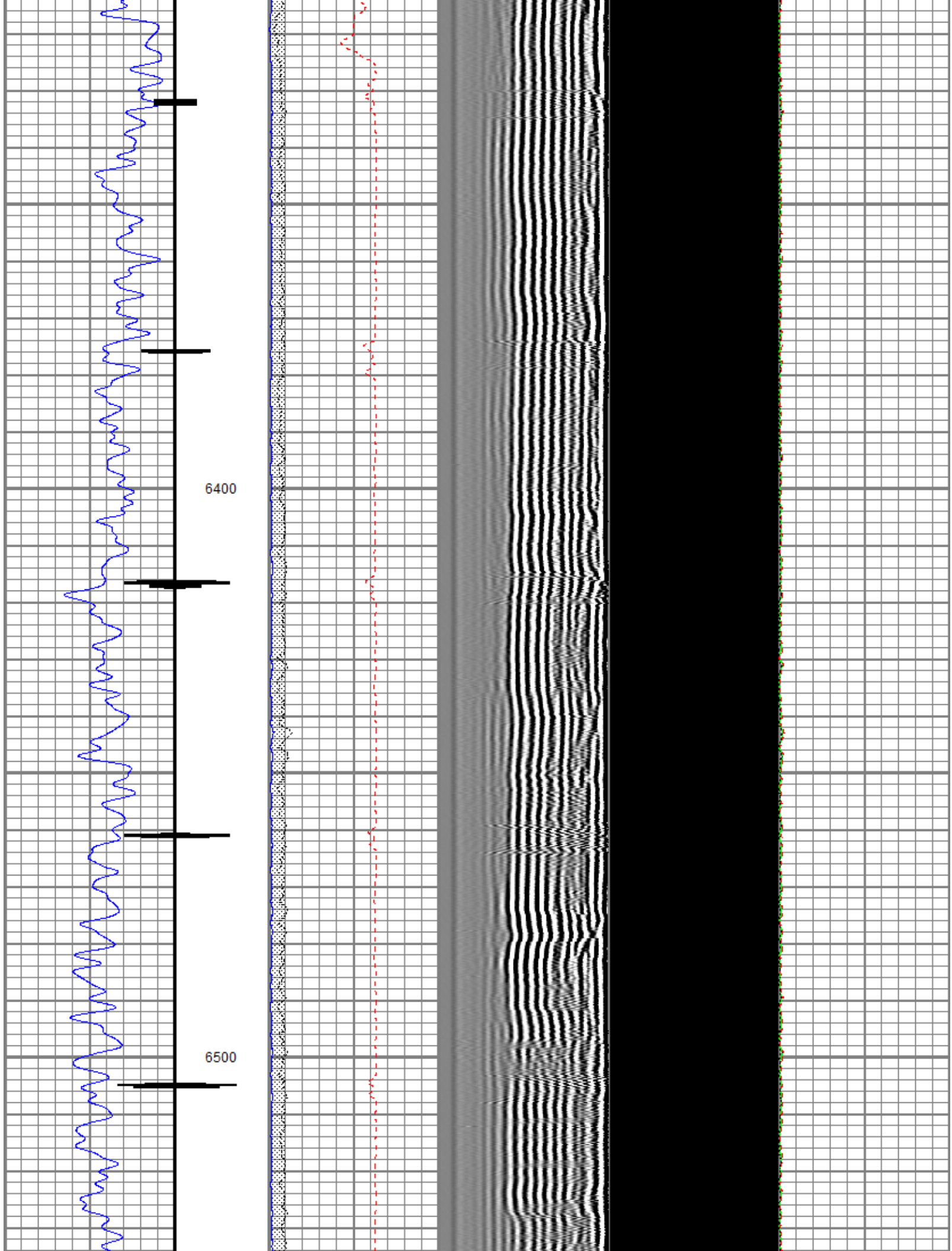


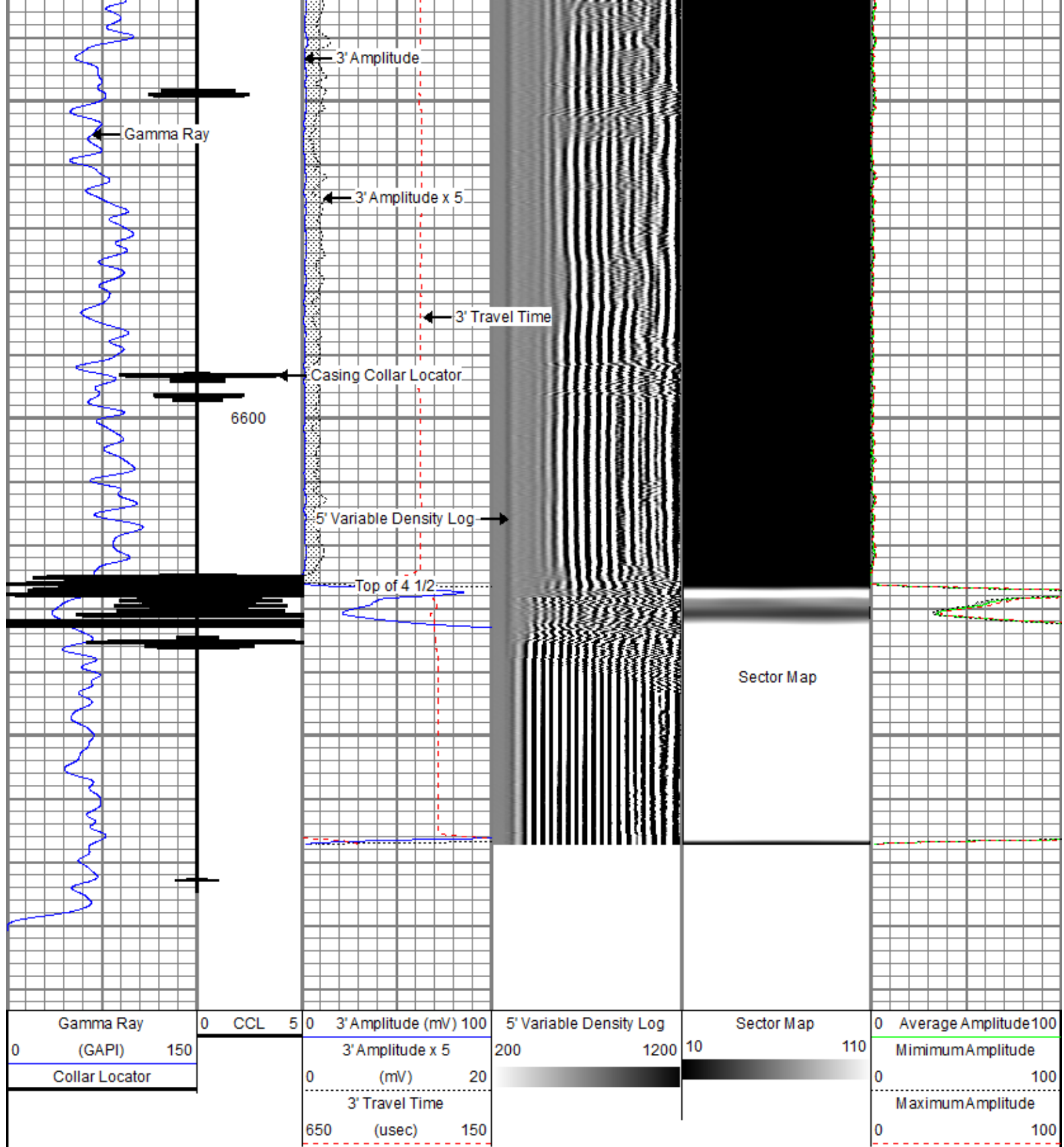












Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan_1_11_16	1.04	1.69	5.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00

Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description
RHeadVolt	20.96							
Temp	18.09							
WVFS3FT	15.98				Probe_RADII-C-2-3/4" (FW1305-96in7")	9.21	2.75	100.00
WVFCAL	15.98				Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe			
WVFS1	15.98							
WVFS2	15.98							
WVFS3	15.98							
WVFS4	15.98							
WVFS5	15.98							
WVFS6	15.98							
WVFS7	15.98							
WVFS8	15.98							
WVF5FT	14.98							
					Probe_IL_BS_Cent	2.88	2.75	10.00
					Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer			
CCL	7.38				Probe_CCL-2.75" _SA_6MAG_CCL (FW1307-76)	2.66	2.75	50.00
					Probe_CCL_GR-2.75" _SA_Corrosion_GR (FW 3.33-78)	2.75	2.75	50.00
					Probe 2.75 Inch Stand Alone Corrosion GR			
GR	3.67							
					Probe_IL_BS_Cent	2.88	2.75	10.00
					Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer			

Dataset: kmg_farley 30n-23hz_rcblw7.db: field/well/run1/pass5

Total Length: 24.88 ft

Total Weight: 235.00 lb

O.D.: 2.75 in

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Performed: Sun Sep 08 13:28:36 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.8000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1305-96in7"

Tool Model: 2-3/4"

Calibration Casing Diameter: 7.000 in

Calibration Depth: 1042.113 ft

Master Calibration, performed Sun Sep 08 13:10:35 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.006	0.771	0.800	62.165	78.937	1.267
CAL	-0.009	0.969				
5'	-0.005	0.778	0.800	62.165	78.364	1.205
SUM						
S1	-0.015	0.717	0.000	100.000	136.554	2.070
S2	-0.007	0.724	0.000	100.000	136.766	0.937
S3	-0.007	0.749	0.000	100.000	132.259	0.906
S4	-0.007	0.793	0.000	100.000	124.983	0.908
S5	-0.007	0.819	0.000	100.000	121.166	0.805
S6	-0.006	0.815	0.000	100.000	121.858	0.744
S7	-0.007	0.775	0.000	100.000	127.852	0.891
S8	-0.007	0.751	0.000	100.000	131.965	0.936

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	-0.009	0.969	1.000	0.000

Air Zero Calibration, performed Sun Sep 08 12:34:09 2013:

	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



Company Kerr-McGee Oil & Gas Onshore, L.P.

Well Farley 30N-23HZ

Field Wattenberg

