



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Noble Energy Inc.

Well Reveille A34-768

Field Wattenberg

County Weld State Colorado

Location: API #: 05-123-50792

Other Services

SEC 34 TWP 6N RGE 64W

Elevation

Permanent Datum Ground Level Elevation 4631'

Log Measured From Kelly Bushing 30 FT

Drilling Measured From Kelly Bushing

K.B. 4661'

D.F. ---

G.L. 4631'

Date 21-MAR-2021

Run Number One

Depth Driller 17016 FT

Depth Logger 7039 FT

Bottom Logged Interval 7024 FT

Top Log Interval Surface

Open Hole Size ---

Type Fluid Water

Density / Viscosity 8.34 lb/gal

Max. Recorded Temp. 238°F

E. Estimated Cement Top See Log

Time Well Ready R.O.A.

Time Logger on Bottom 09:58

E. Equipment Number HD-0361

Location Plateville, CO

Recorded By M. Steinman

Witnessed By Charlie Schendzielos

Run Number

Bit From To

Size

Weight From To

Grade

Top

Bottom

Surface Casing 9 5/8 36 J-55 Surface 1946.2 FT

Intermediate #1 5 1/2 17 P-110CY Surface 16998.5 FT

Intermediate #2

Inner

<<< Fold Here >>>

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

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6024.8 FT
Adjusted -4 FT to correlate with Marker Joint
Log ran with 2000 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

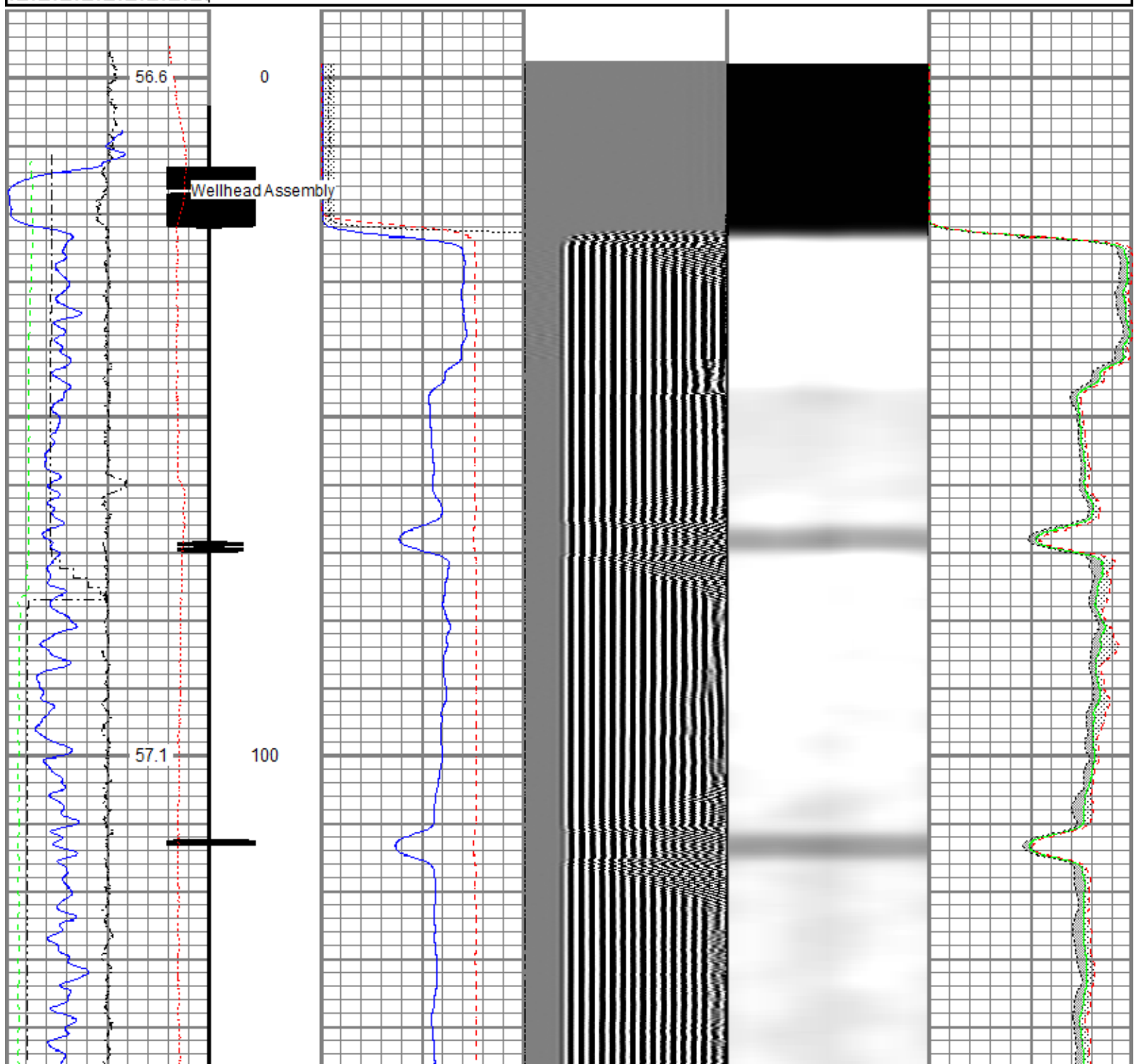
Main Pass

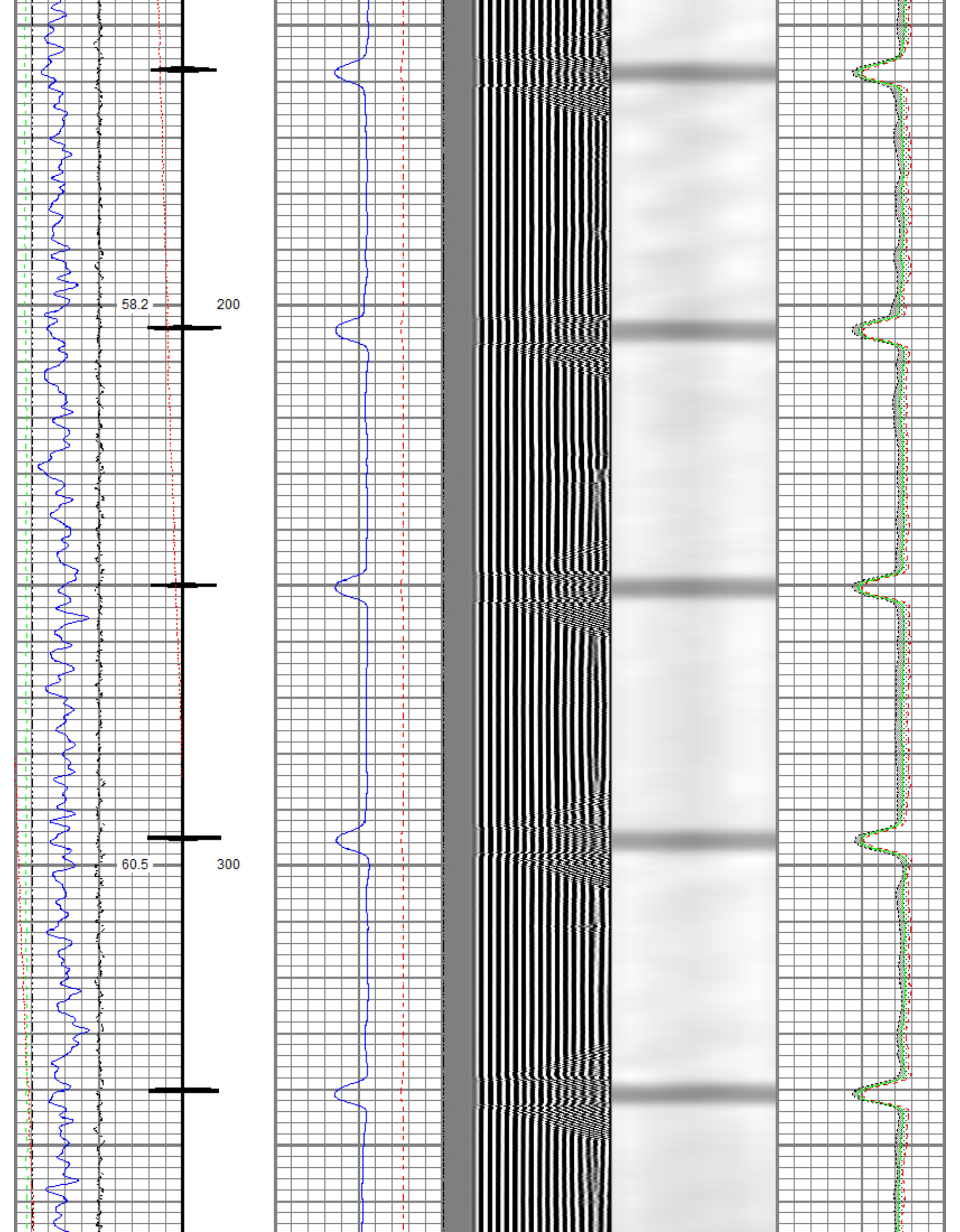


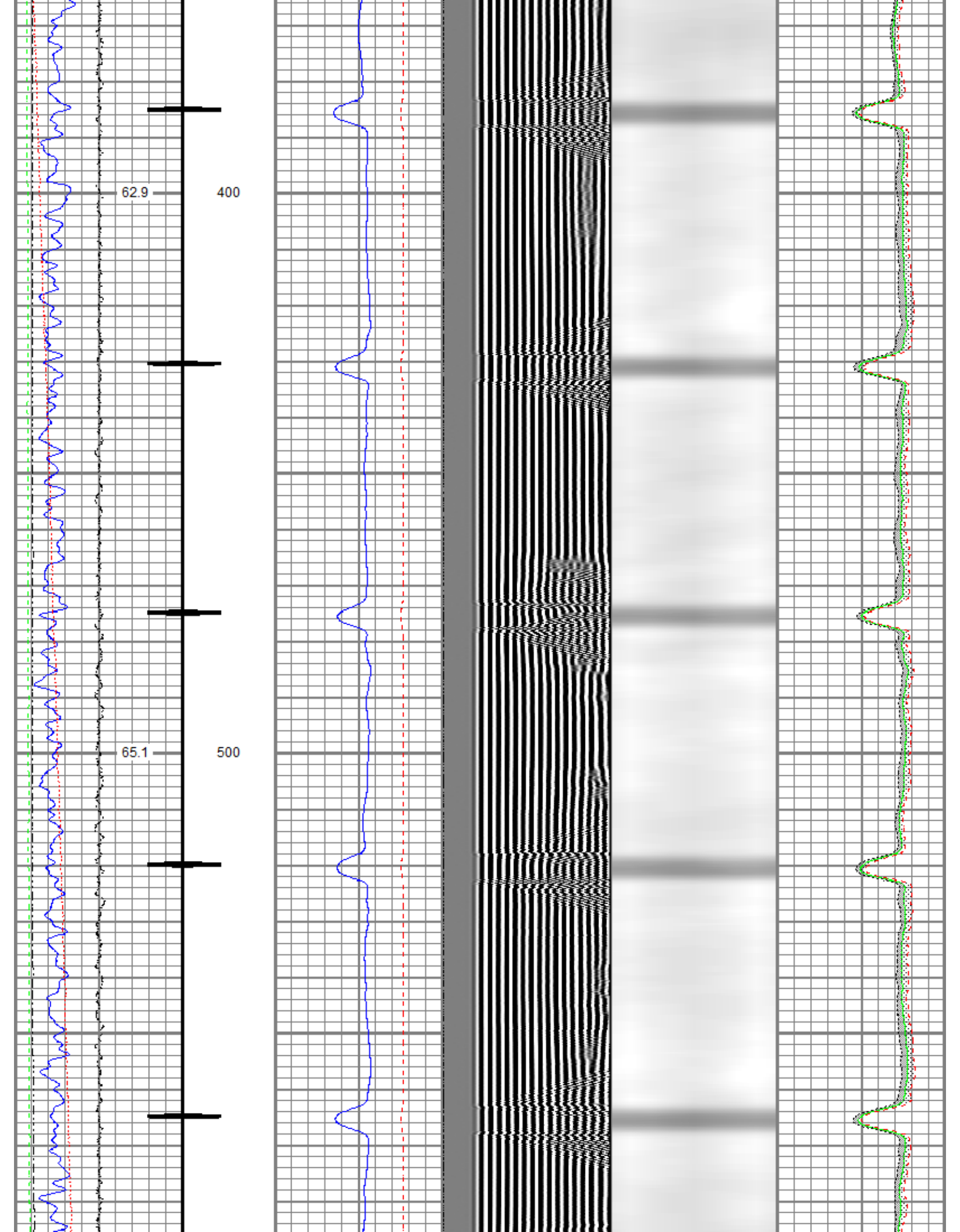
Recorded With 2000 PSI Surface Induced Pressure

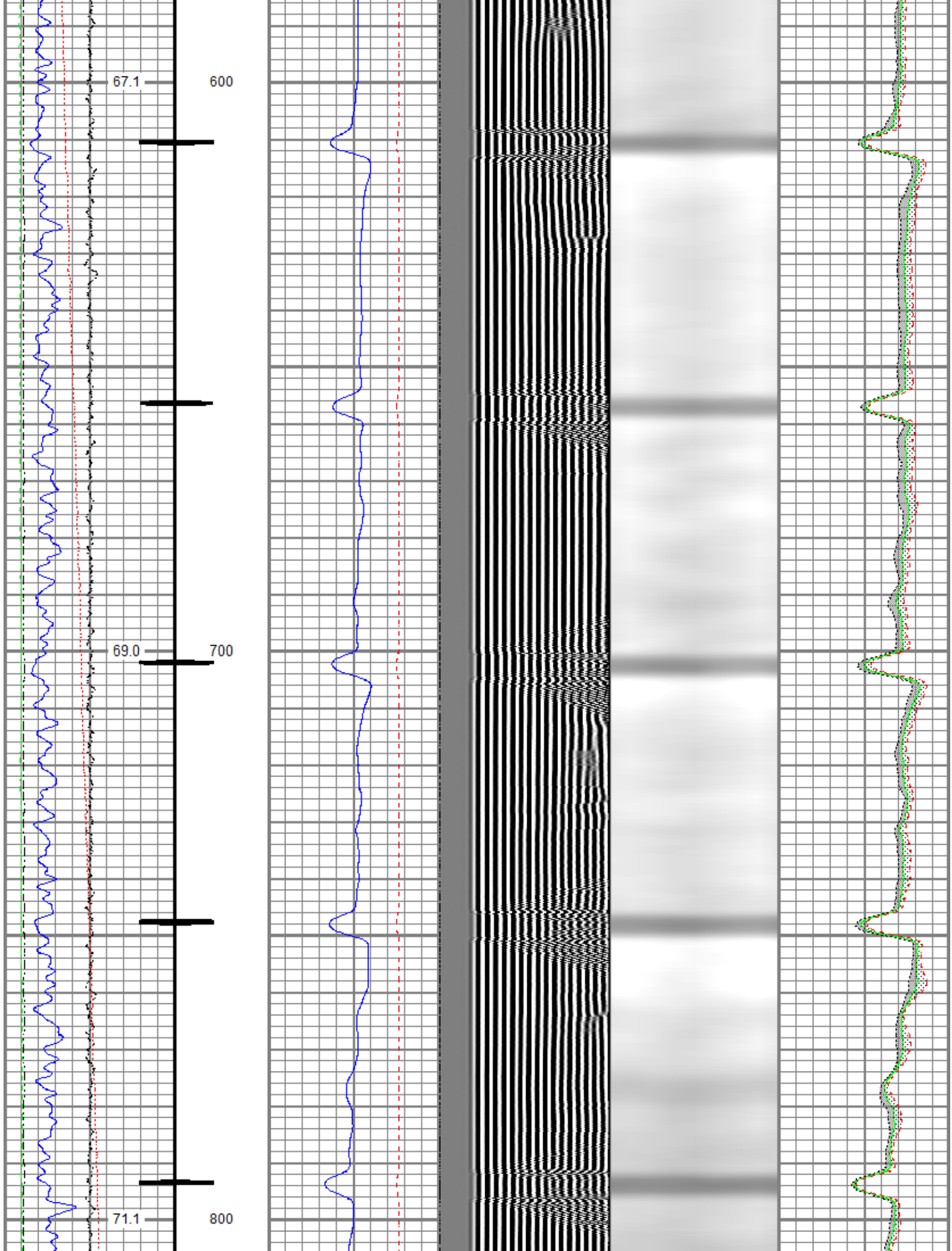
Database File noble\noble_reveille a34-768_rbl_03-21-21\noble_reveille a34-768_rbl_03-21-21.db
Dataset Pathname main/pass1
Presentation Format ros_radii_noble
Dataset Creation Sun Mar 21 10:00:09 2021
Charted by Depth in Feet scaled 1:240

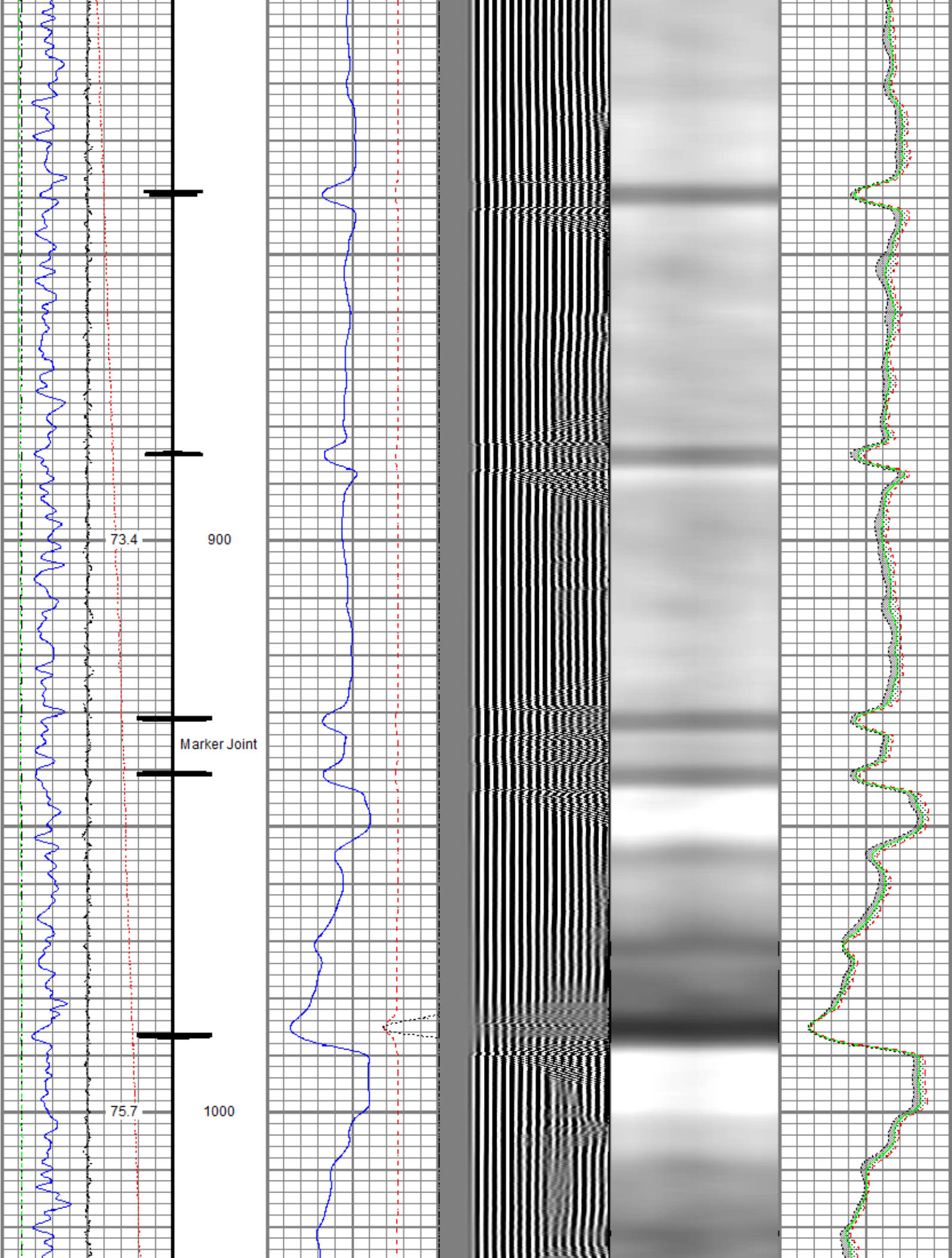
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line Tension (lb) 2000						
Differential Temperature						
(degF) 2						

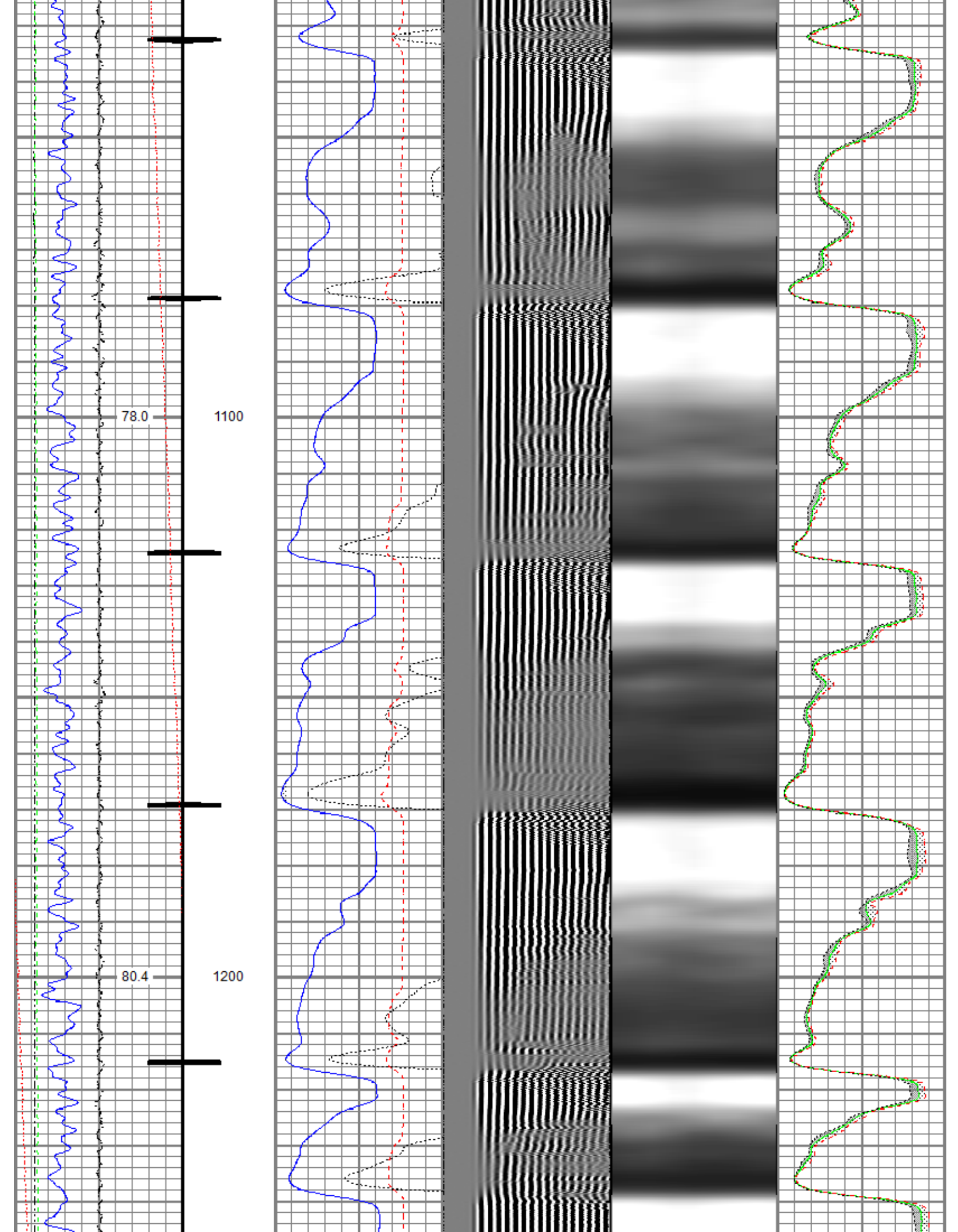


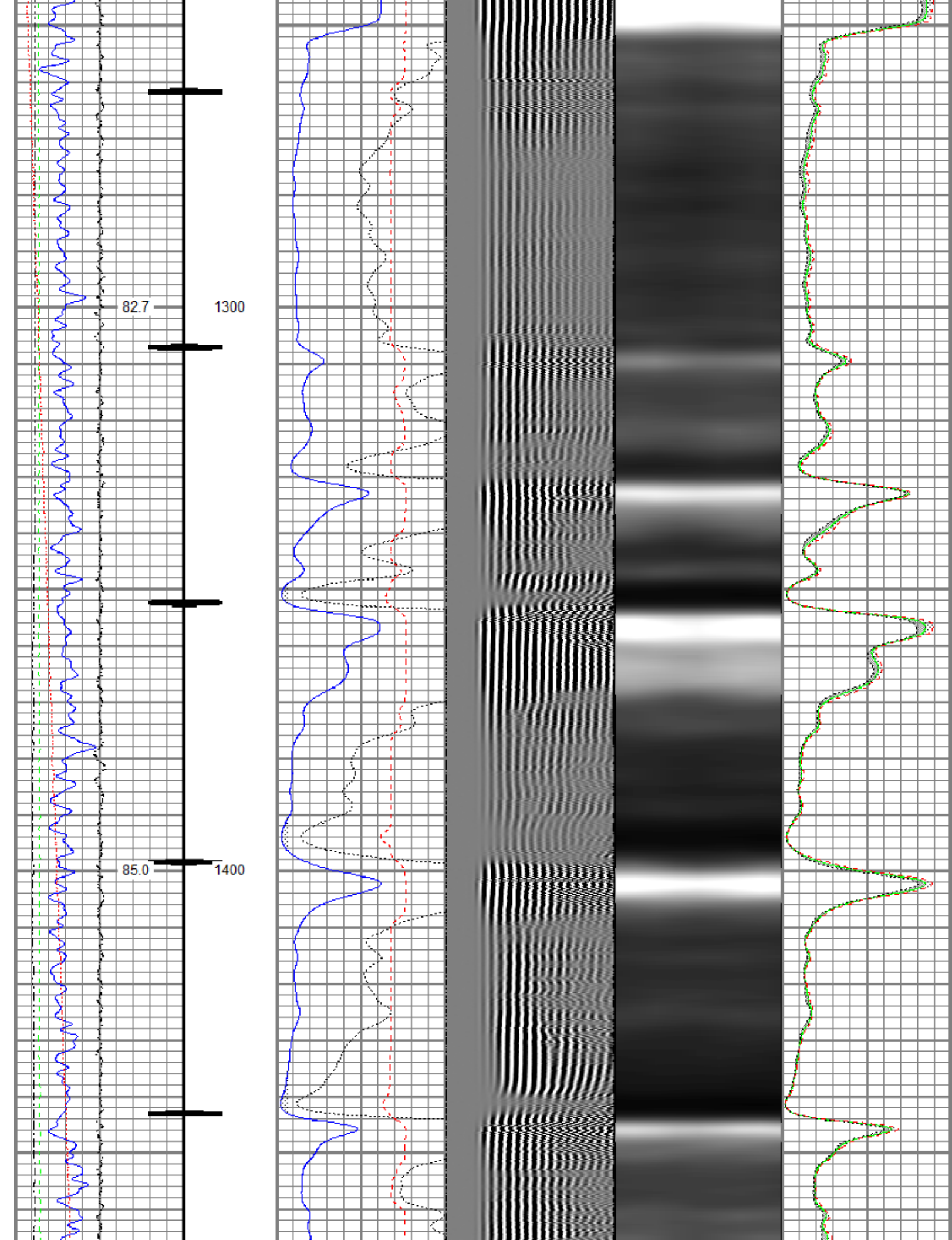


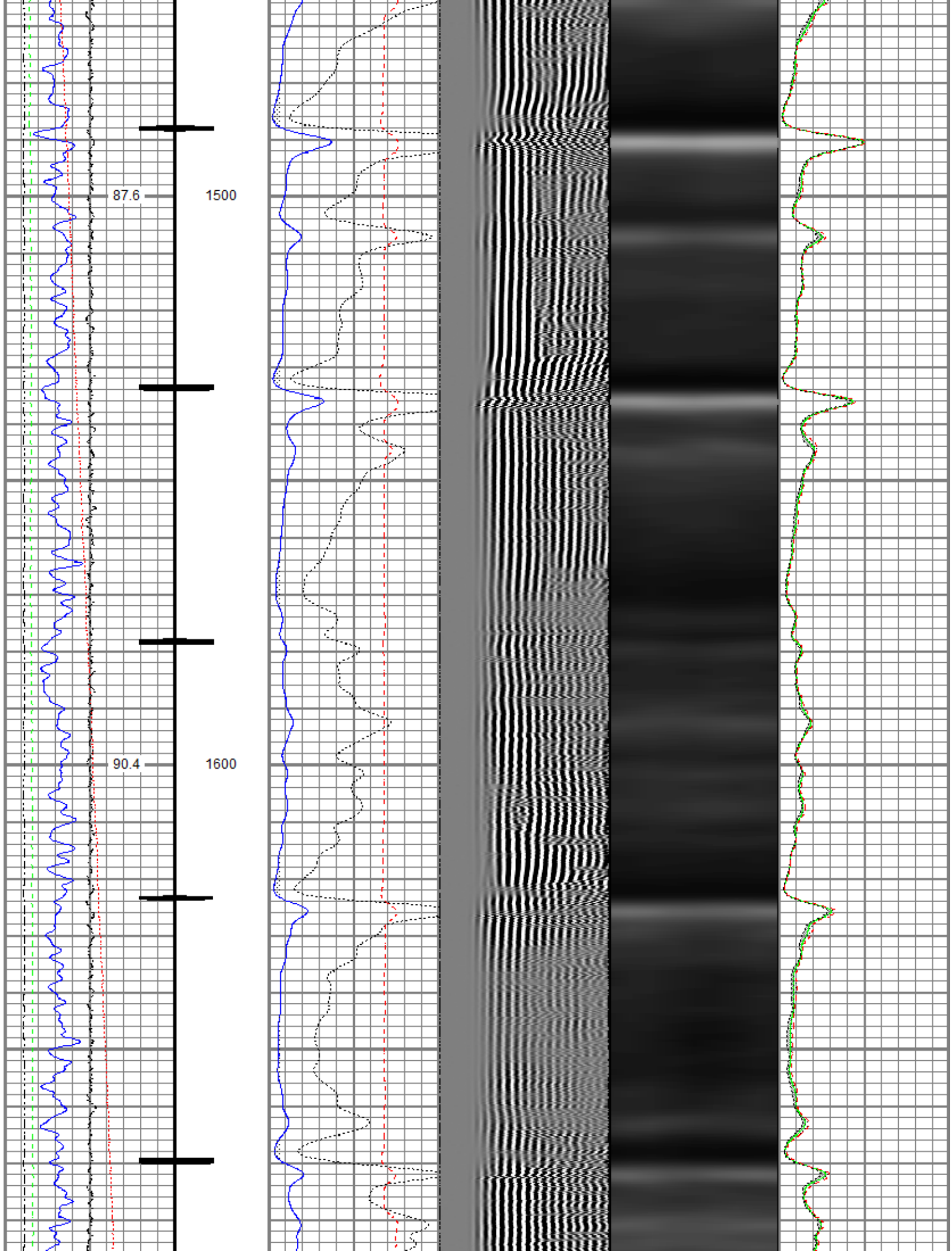


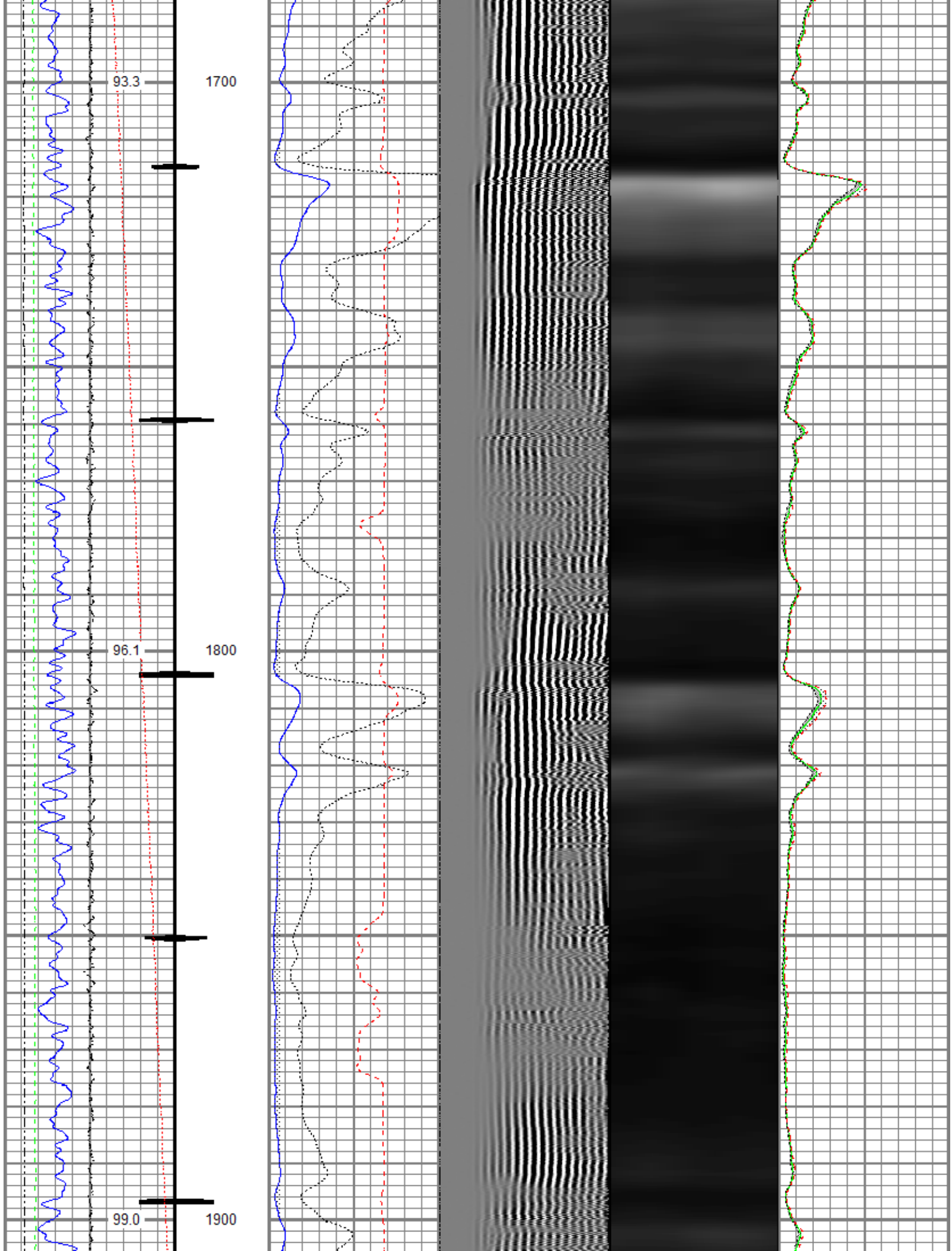


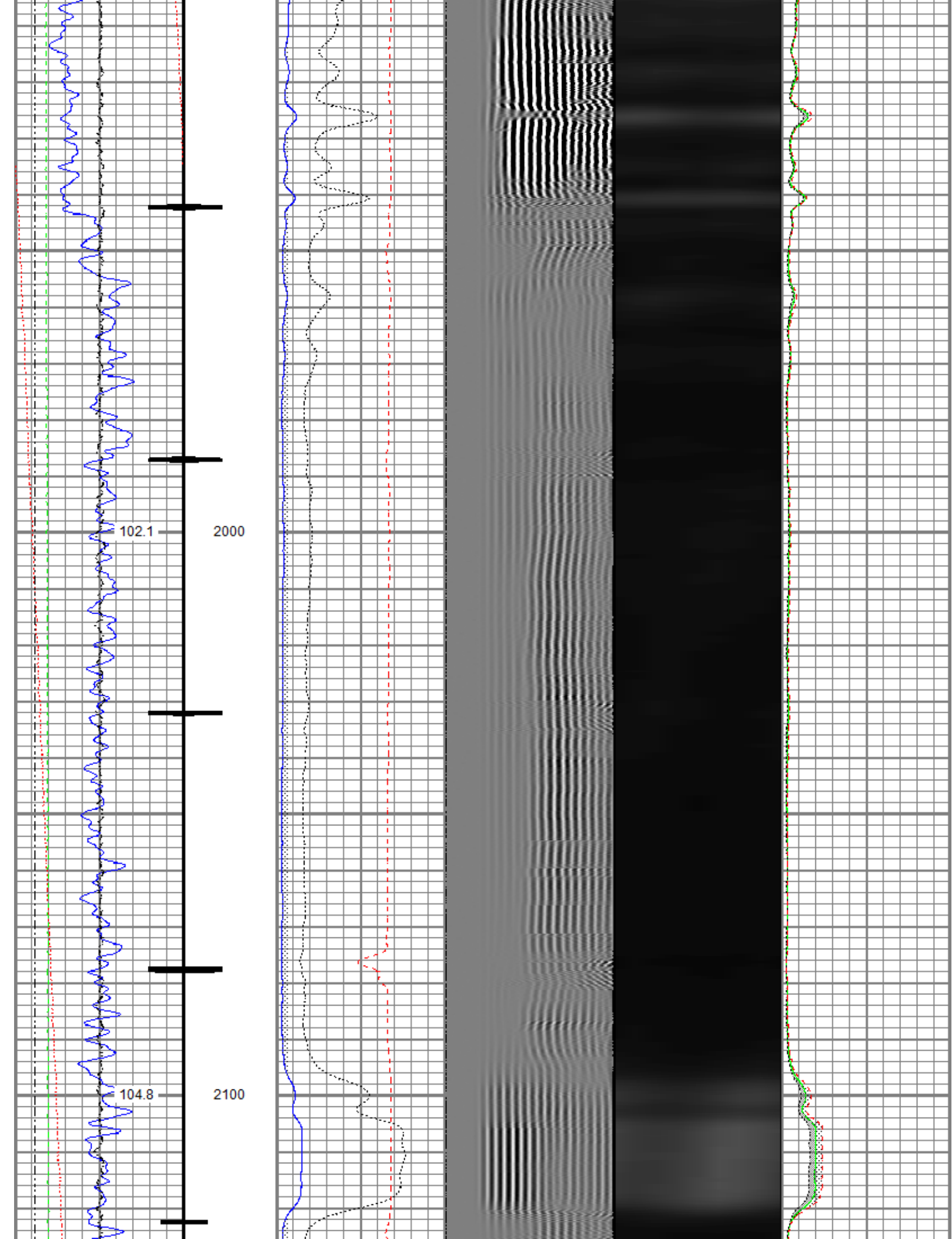


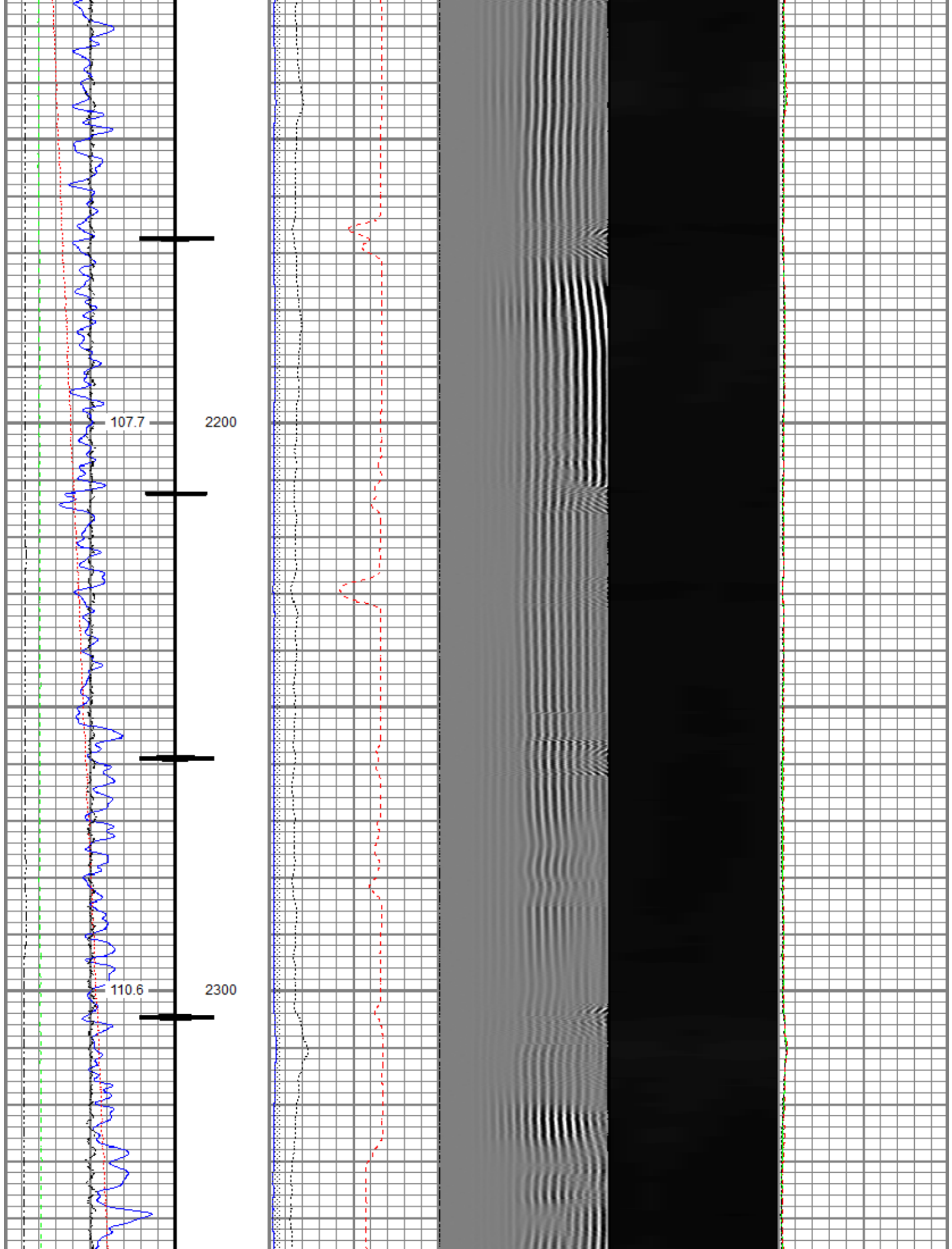


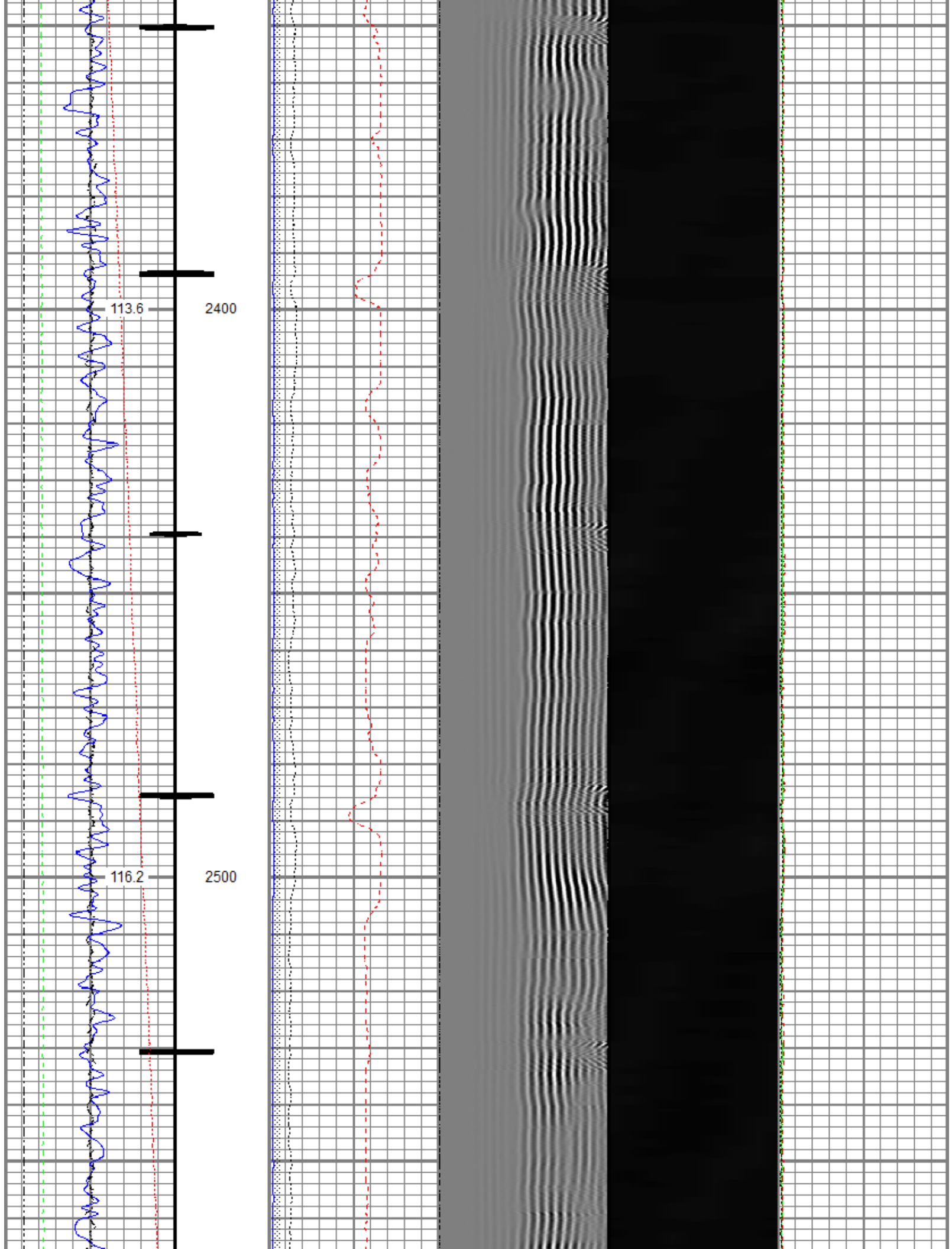


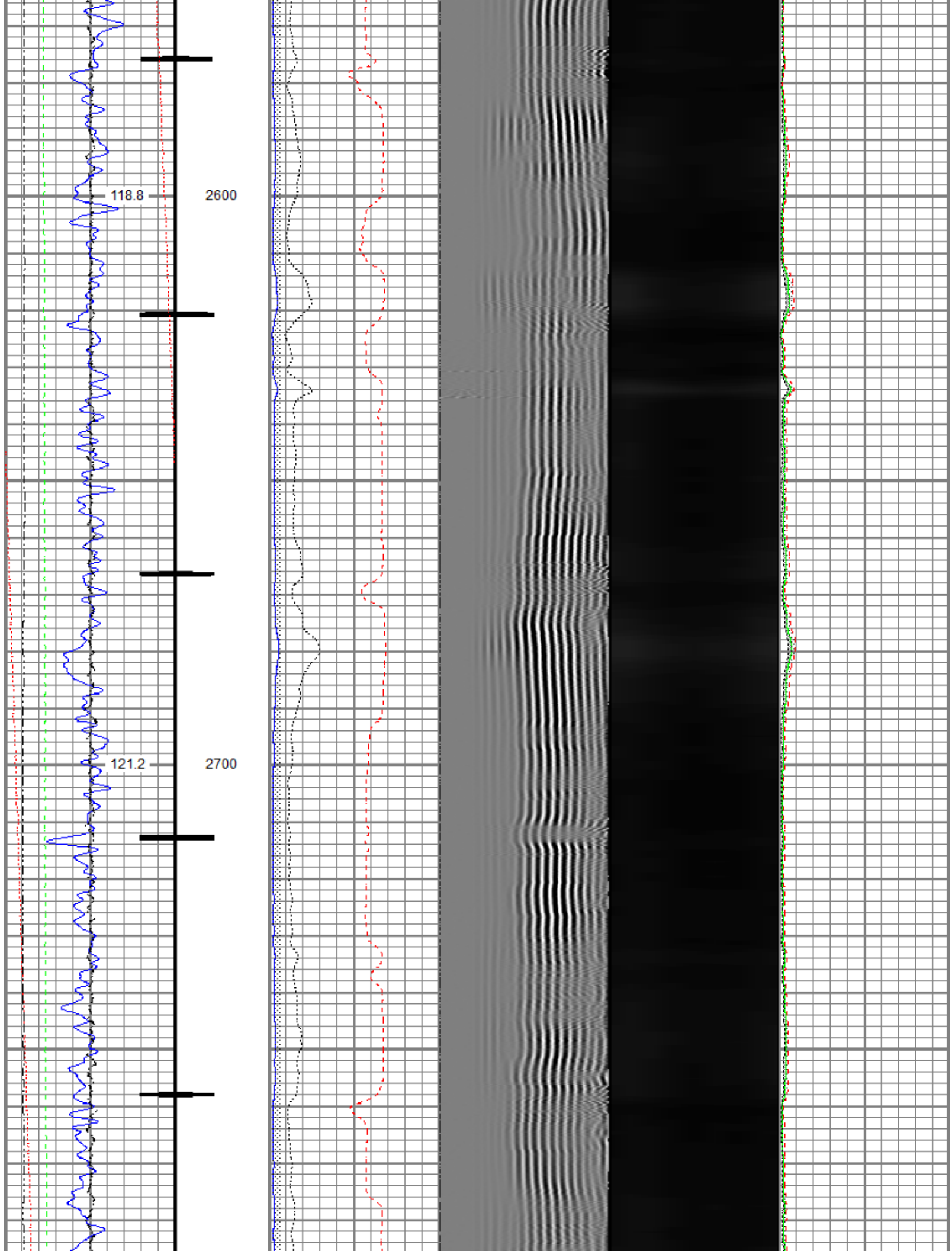


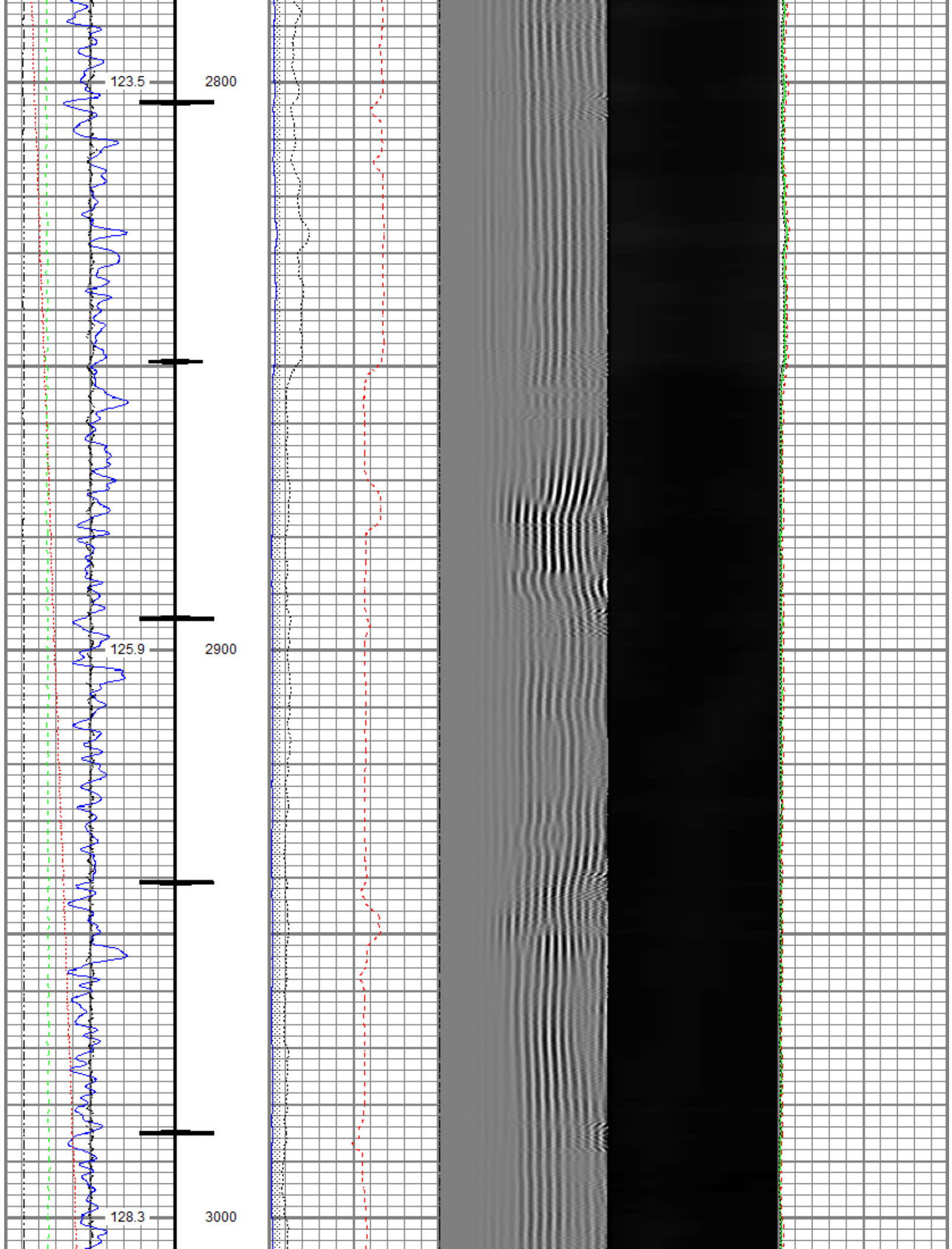


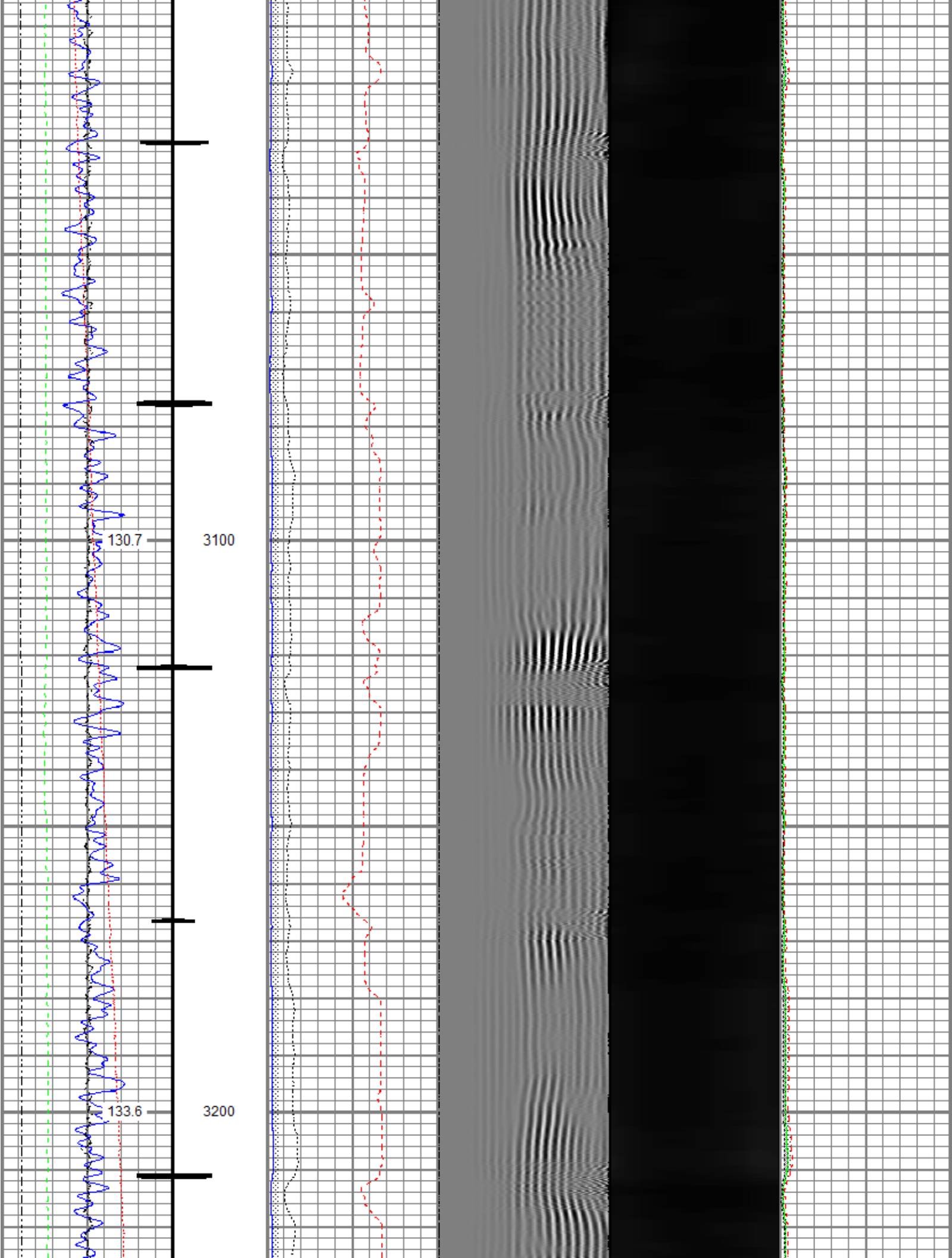


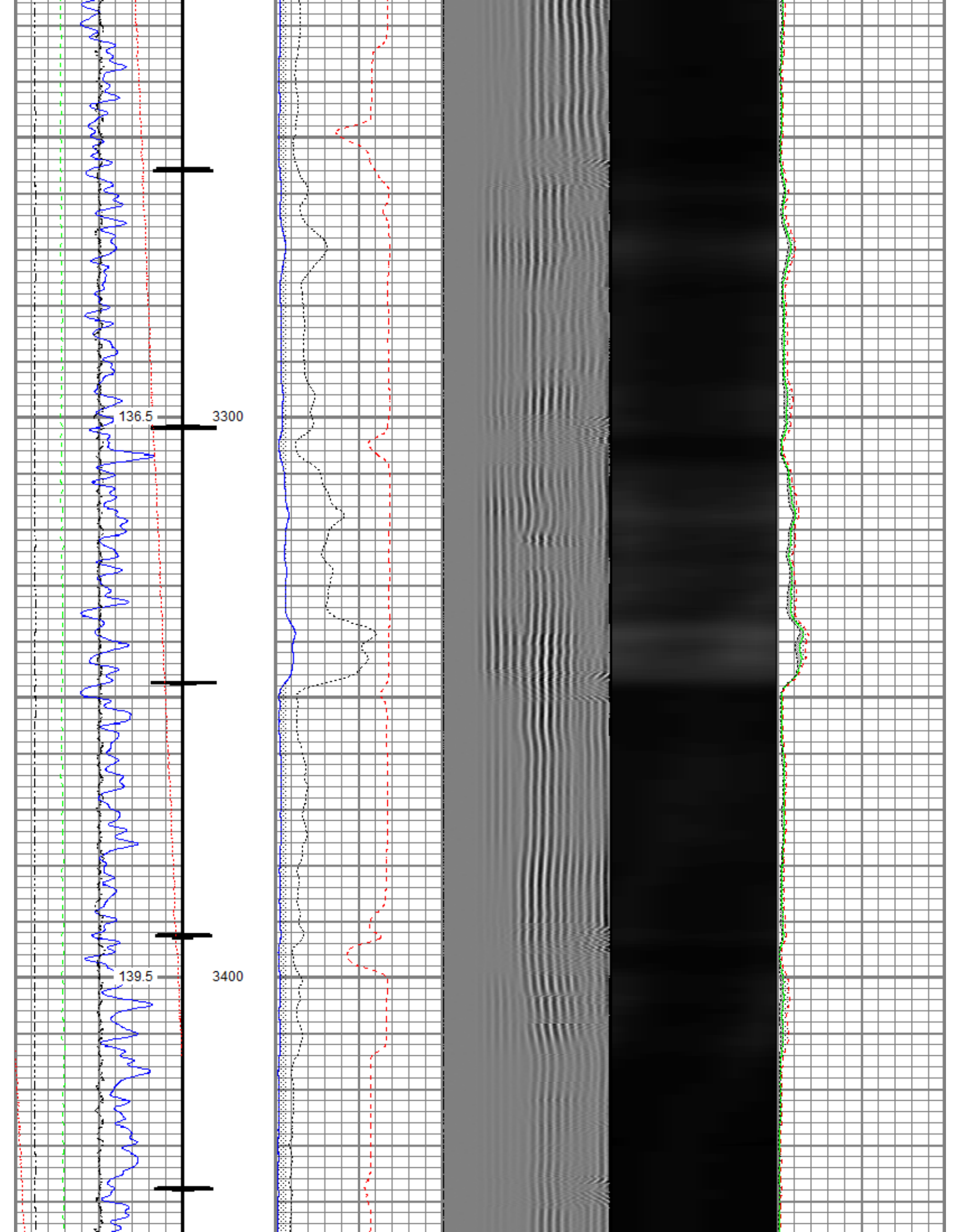


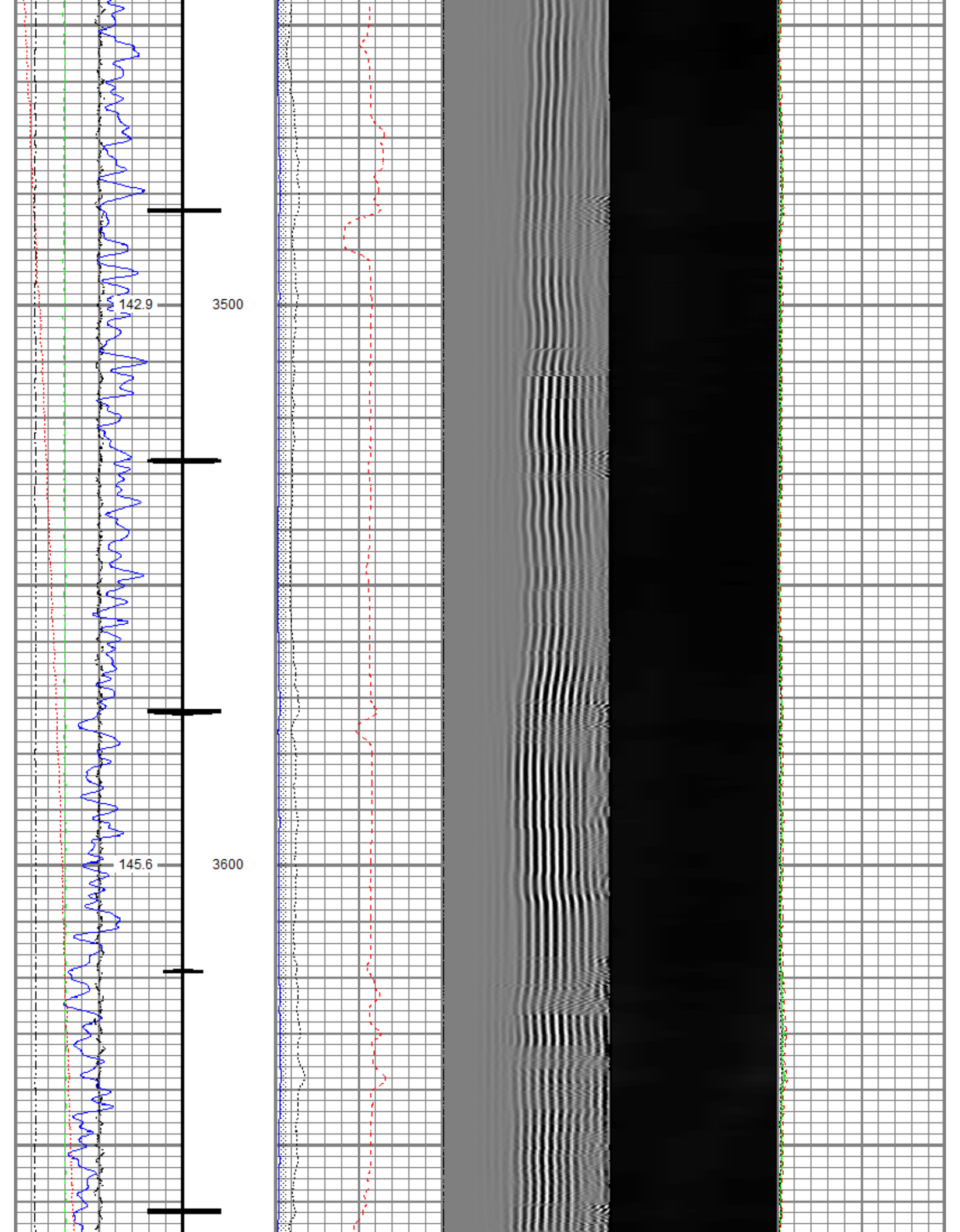


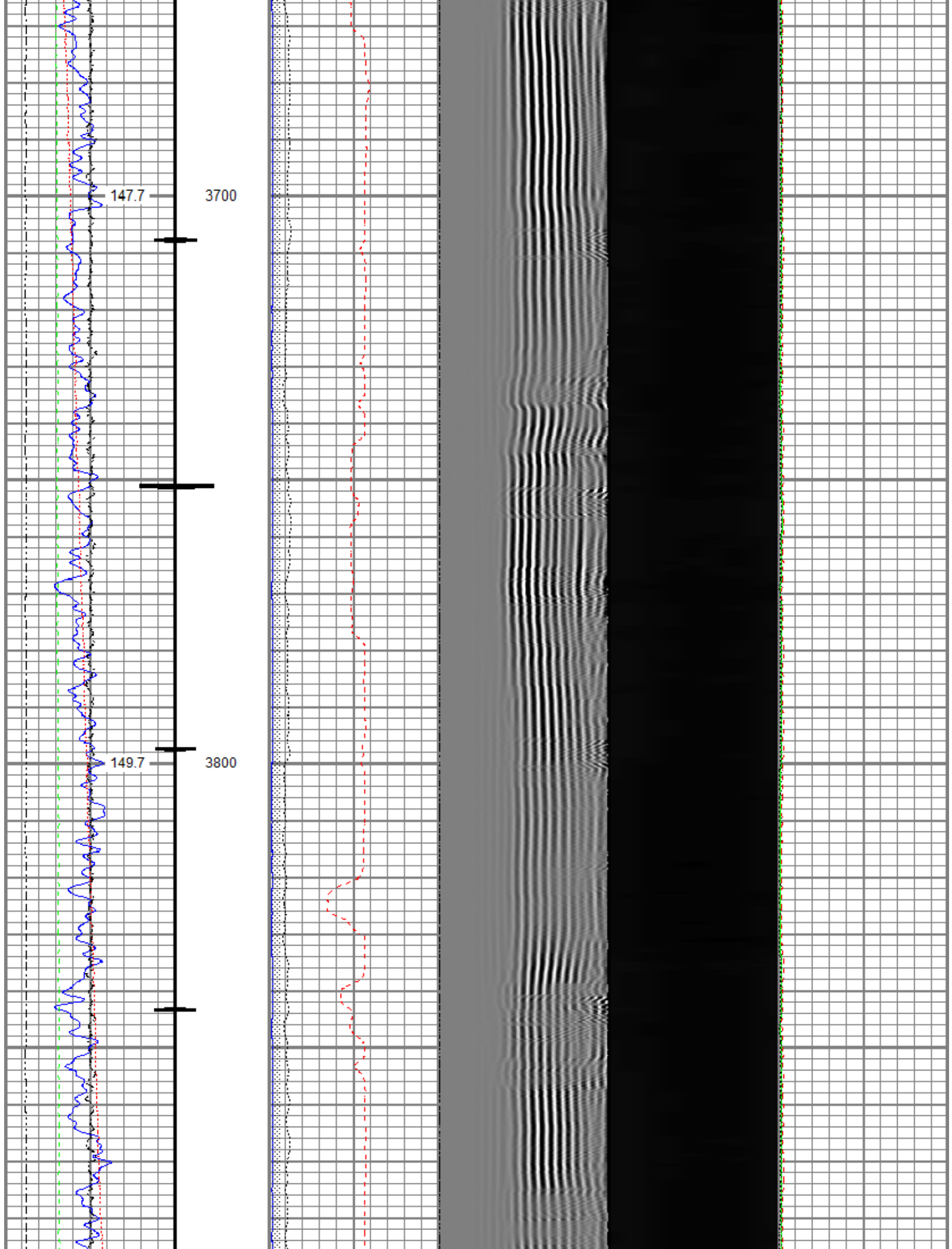


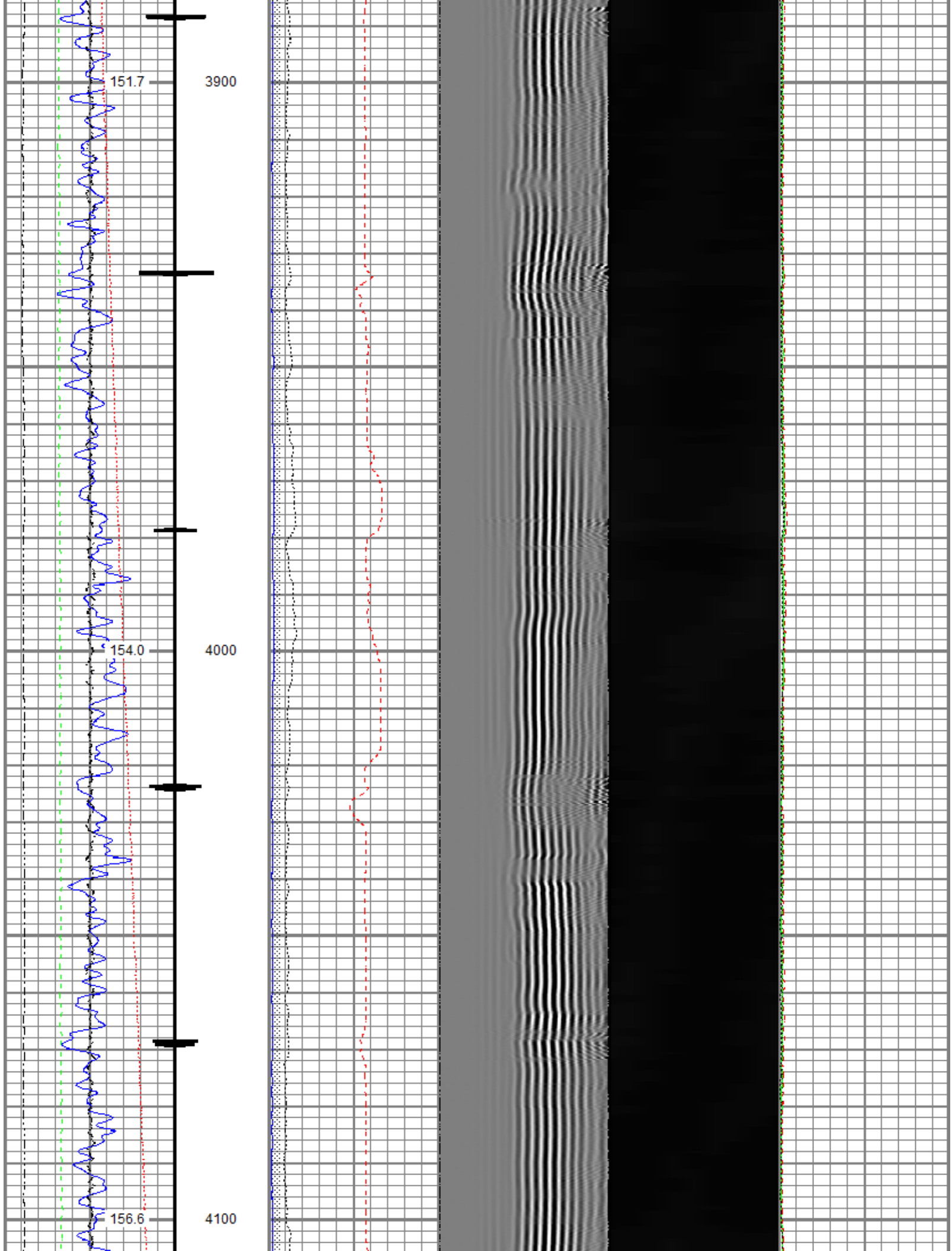


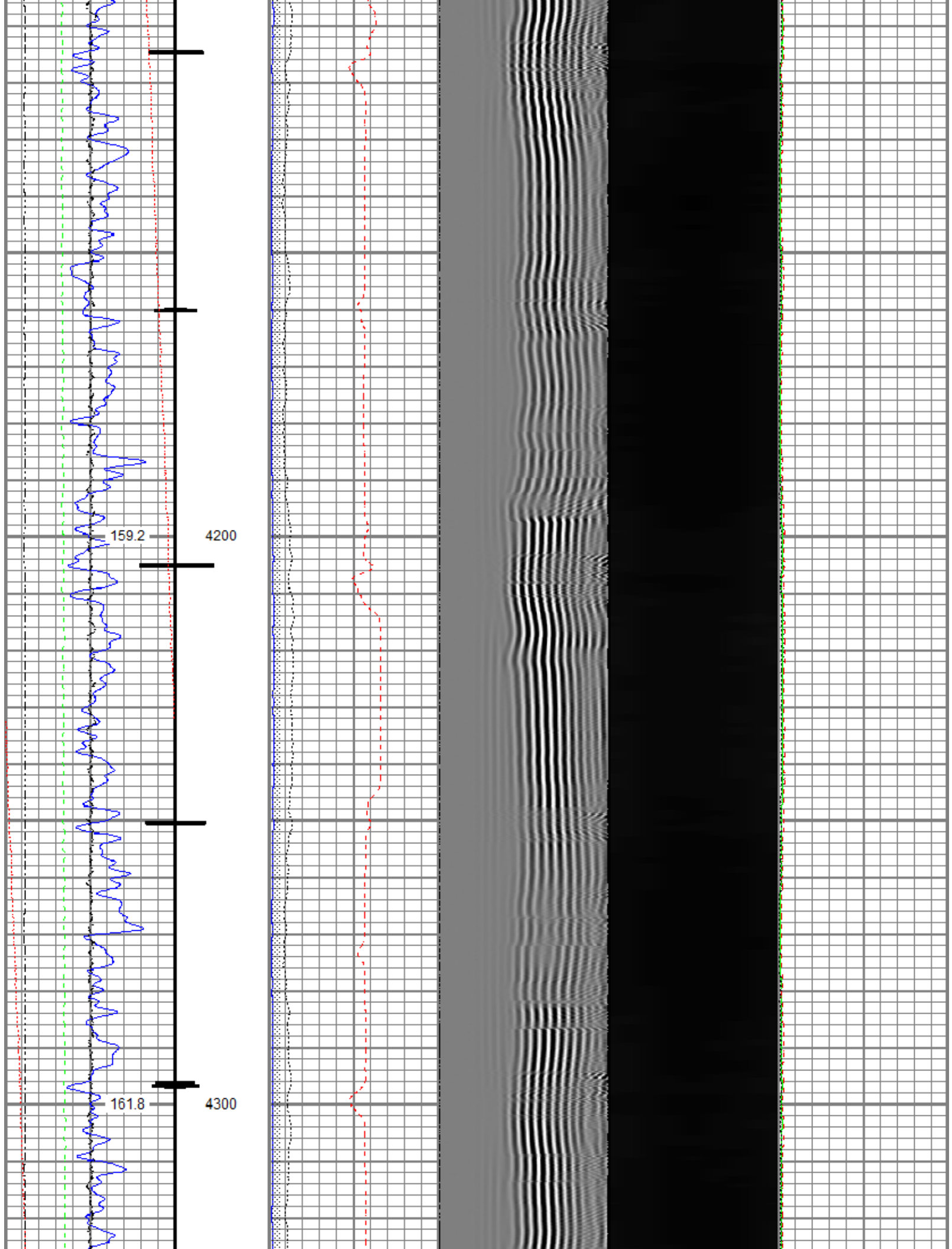


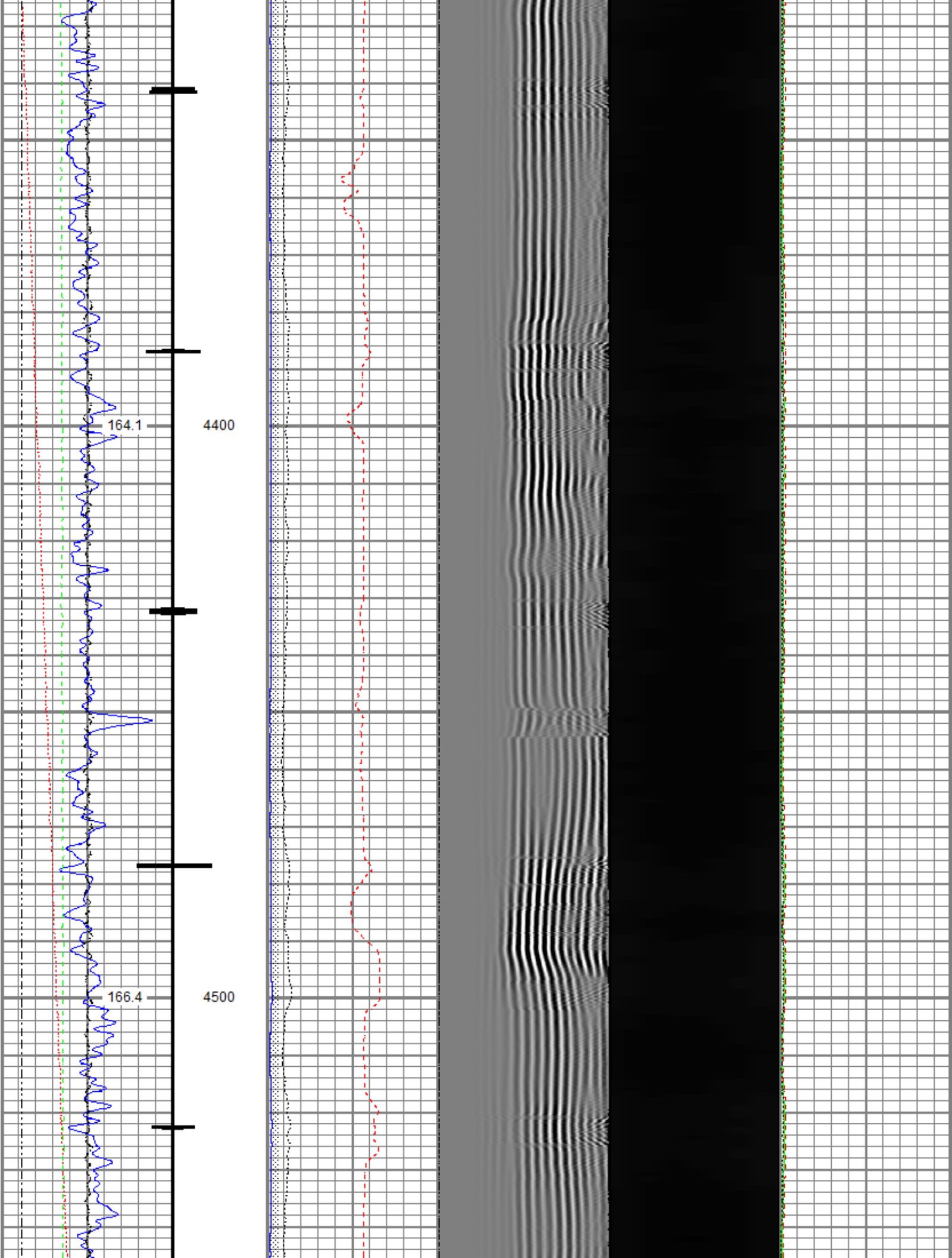


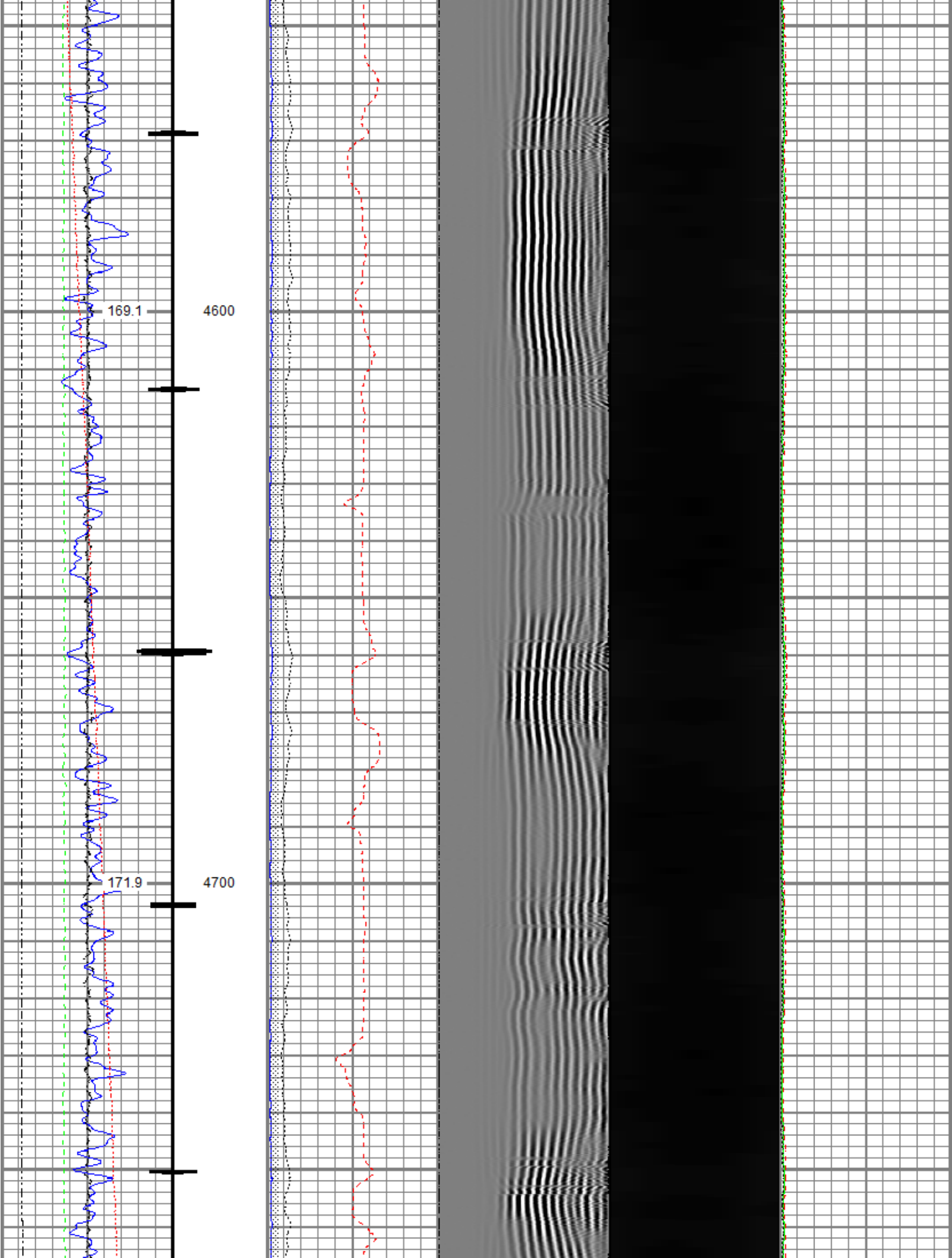


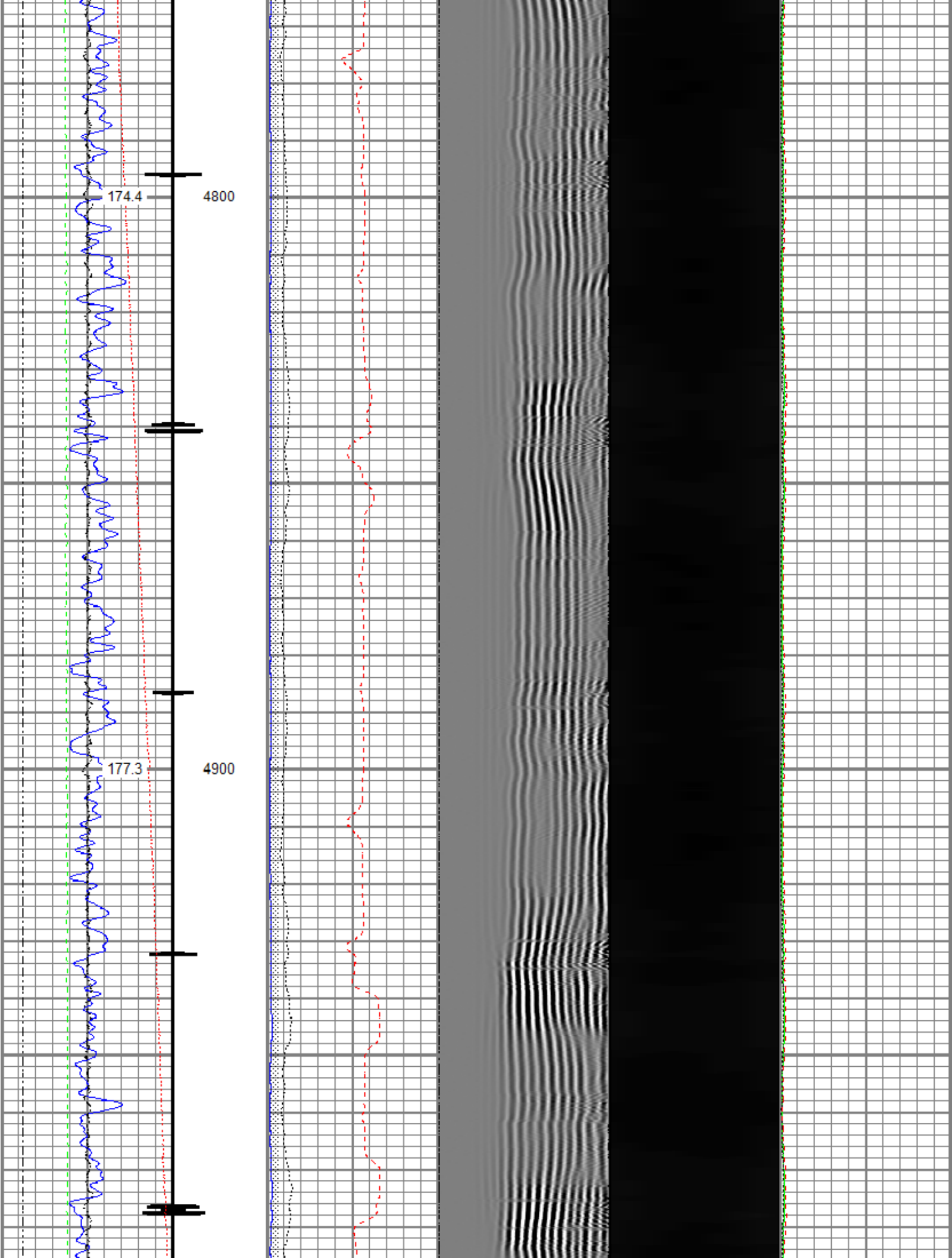


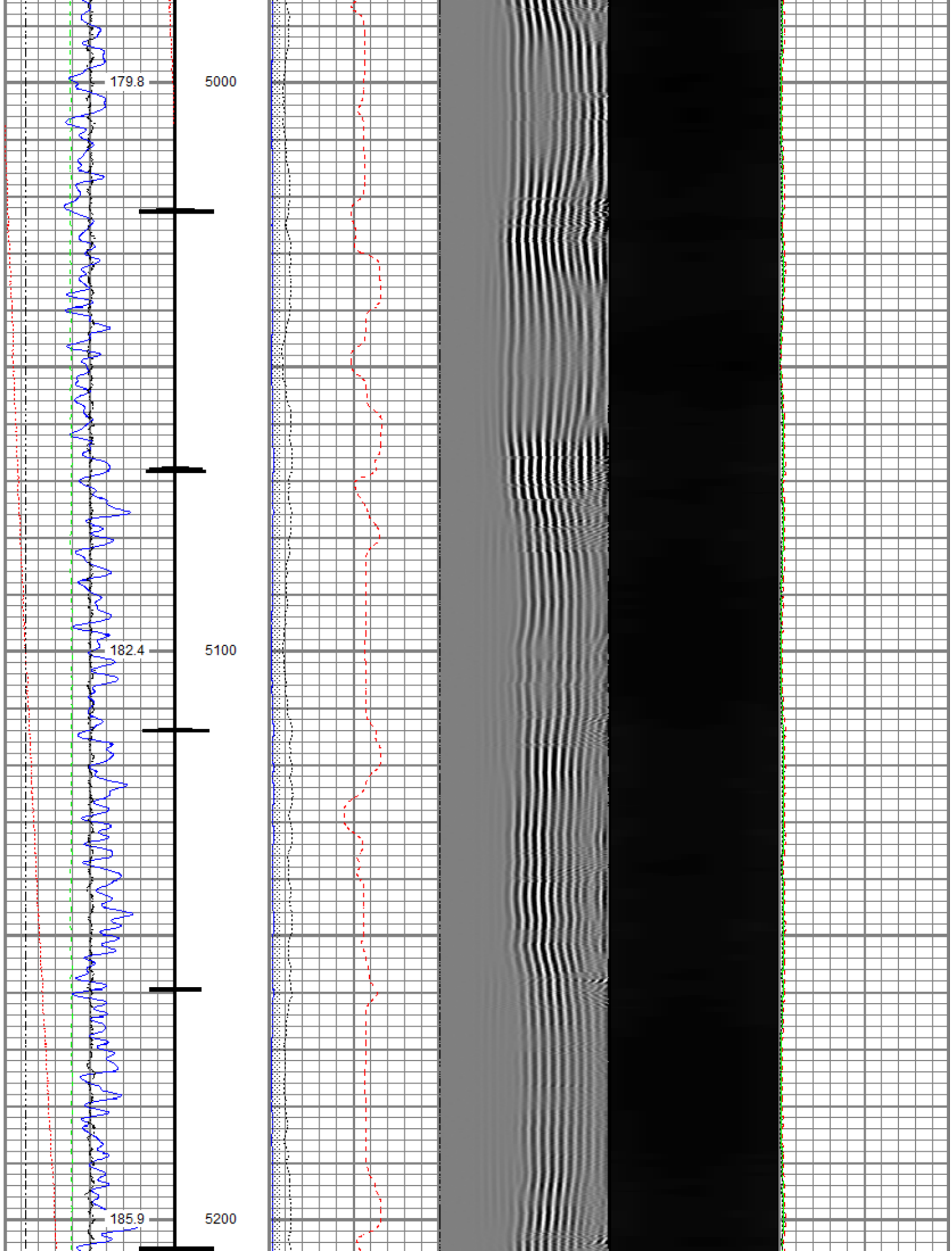


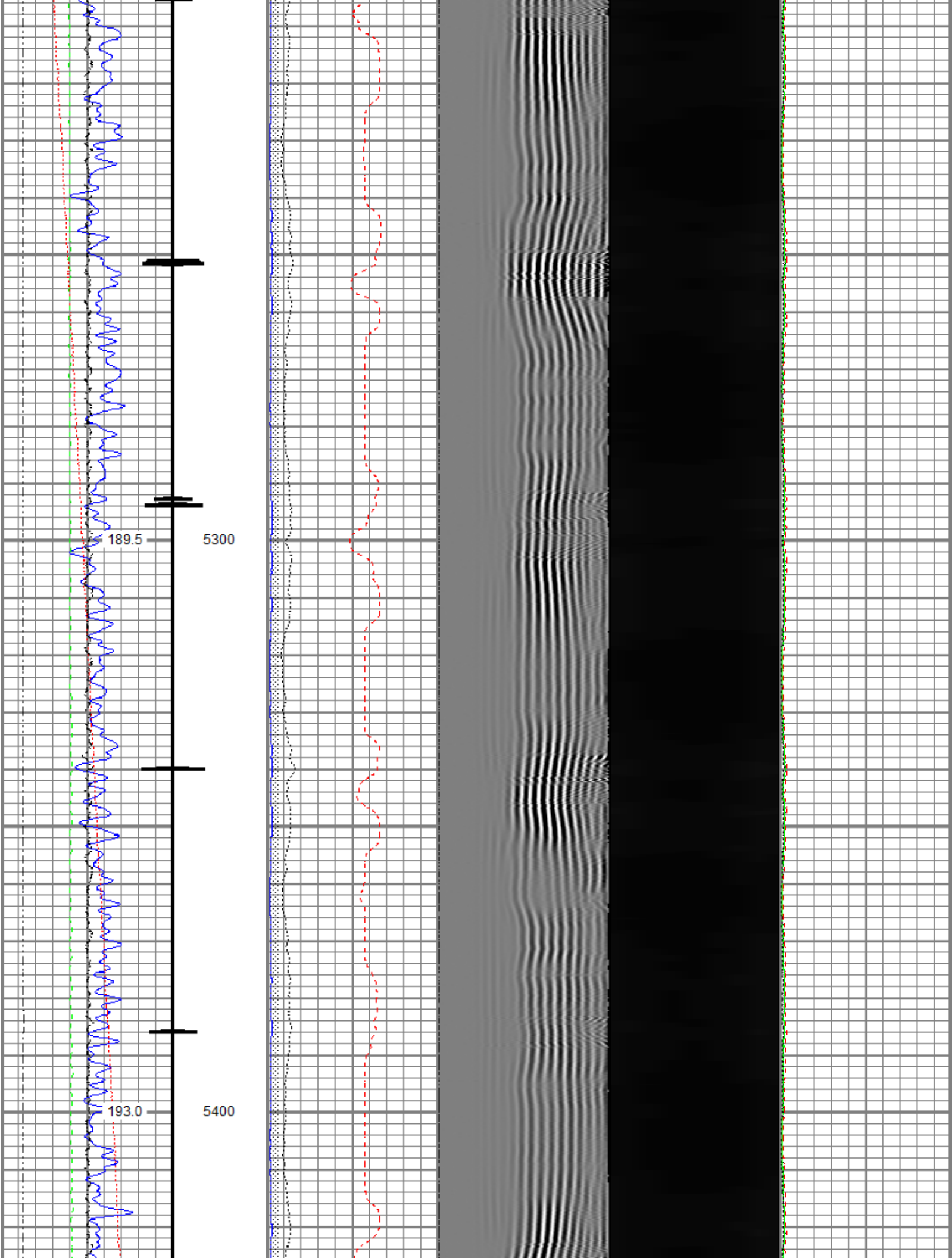


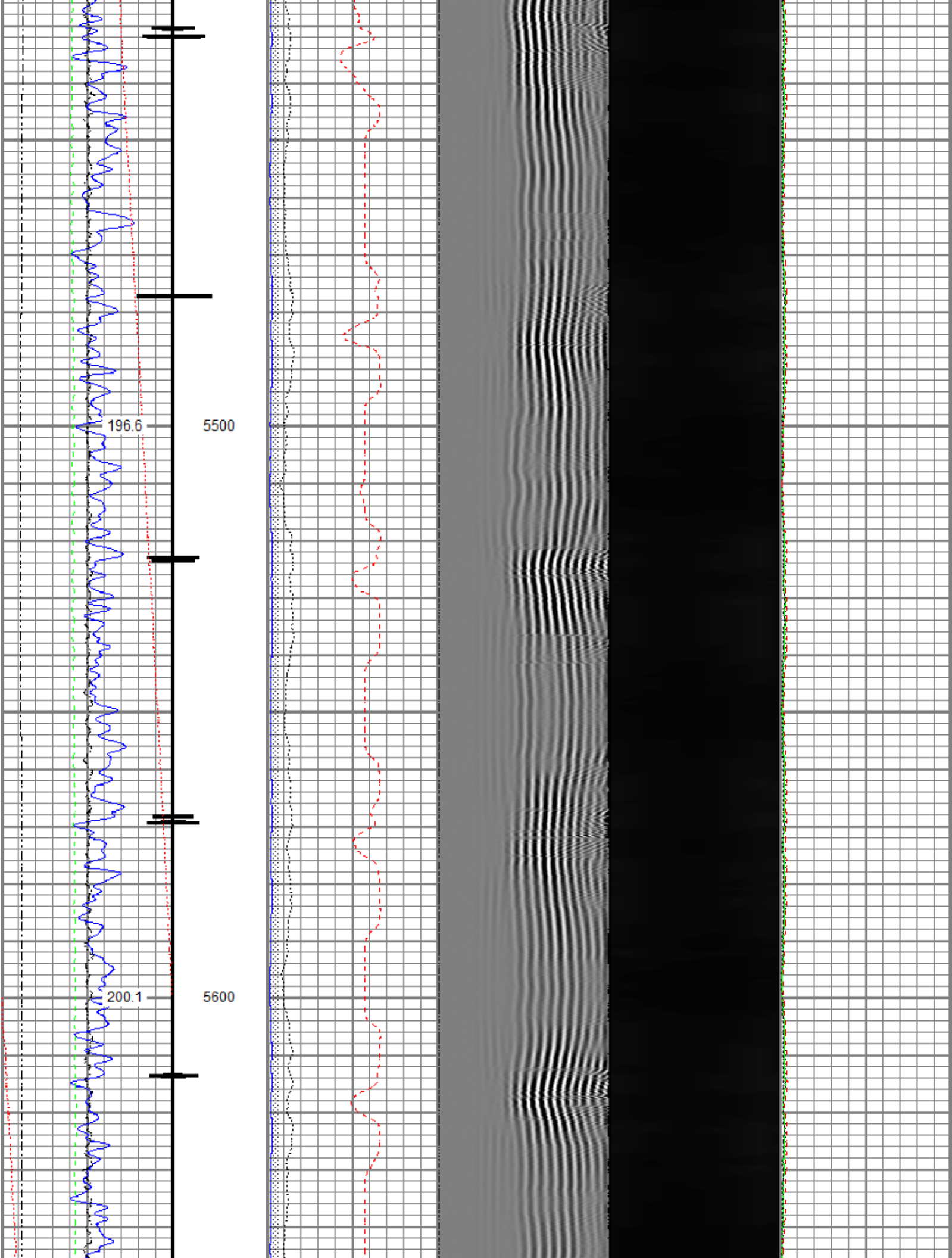


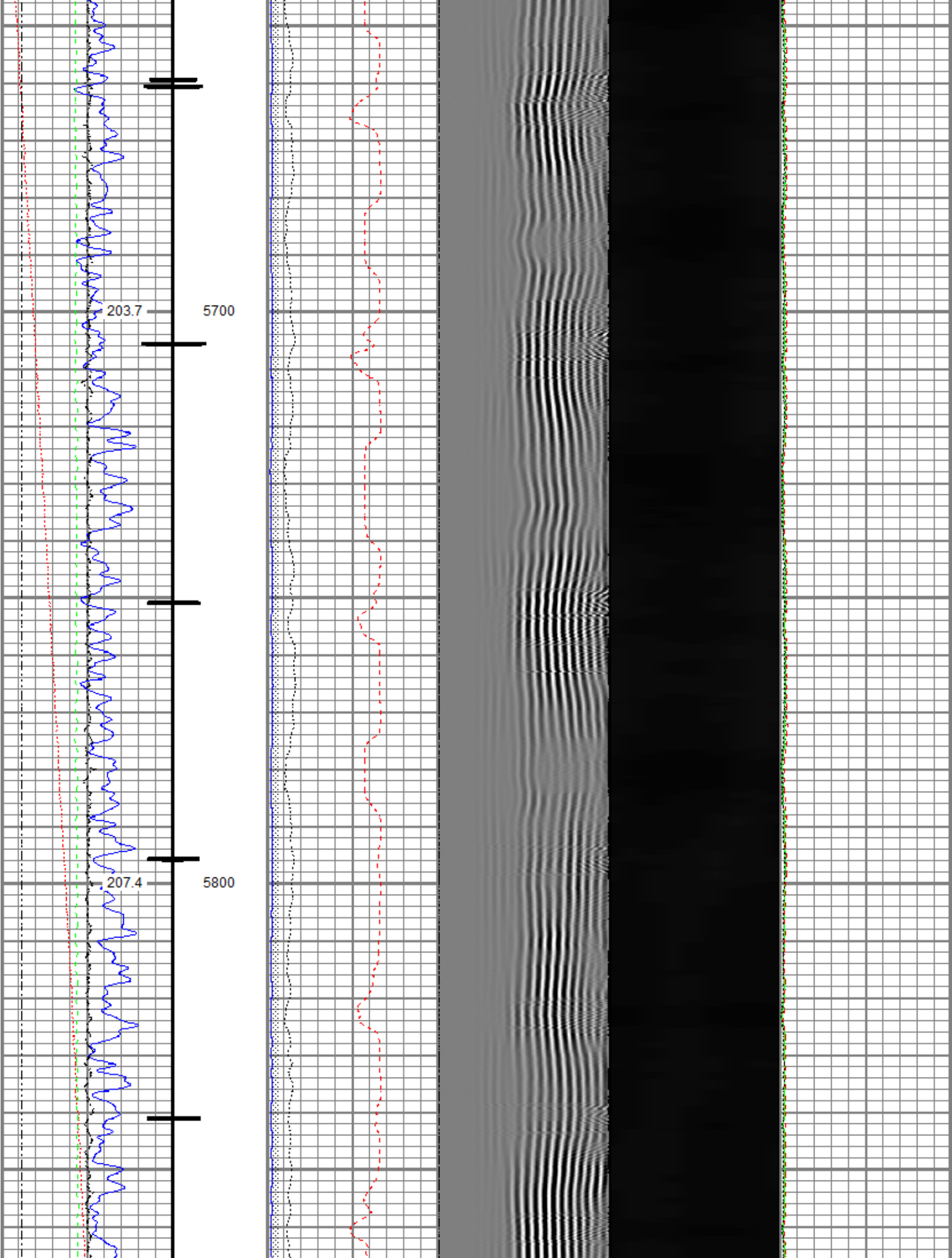


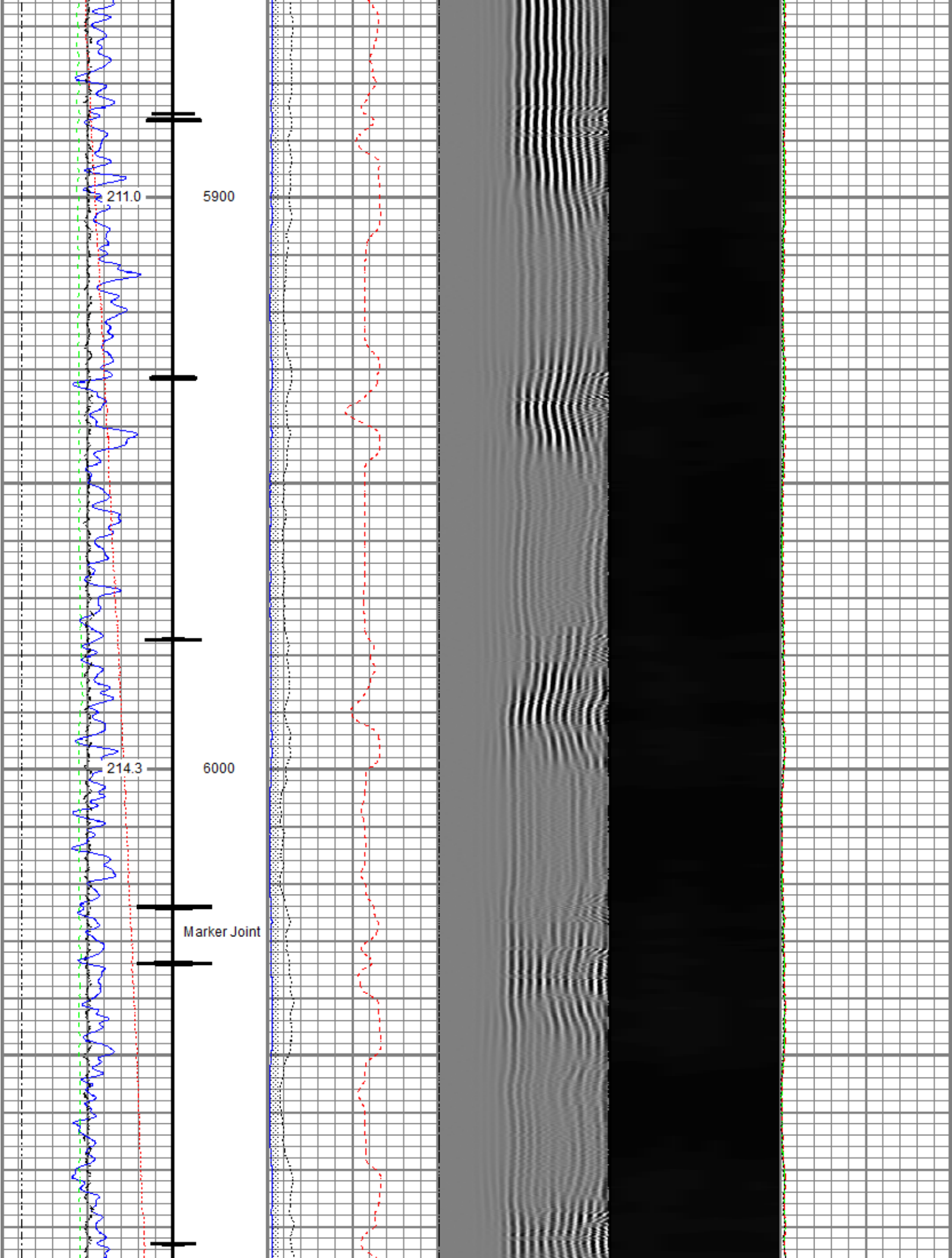


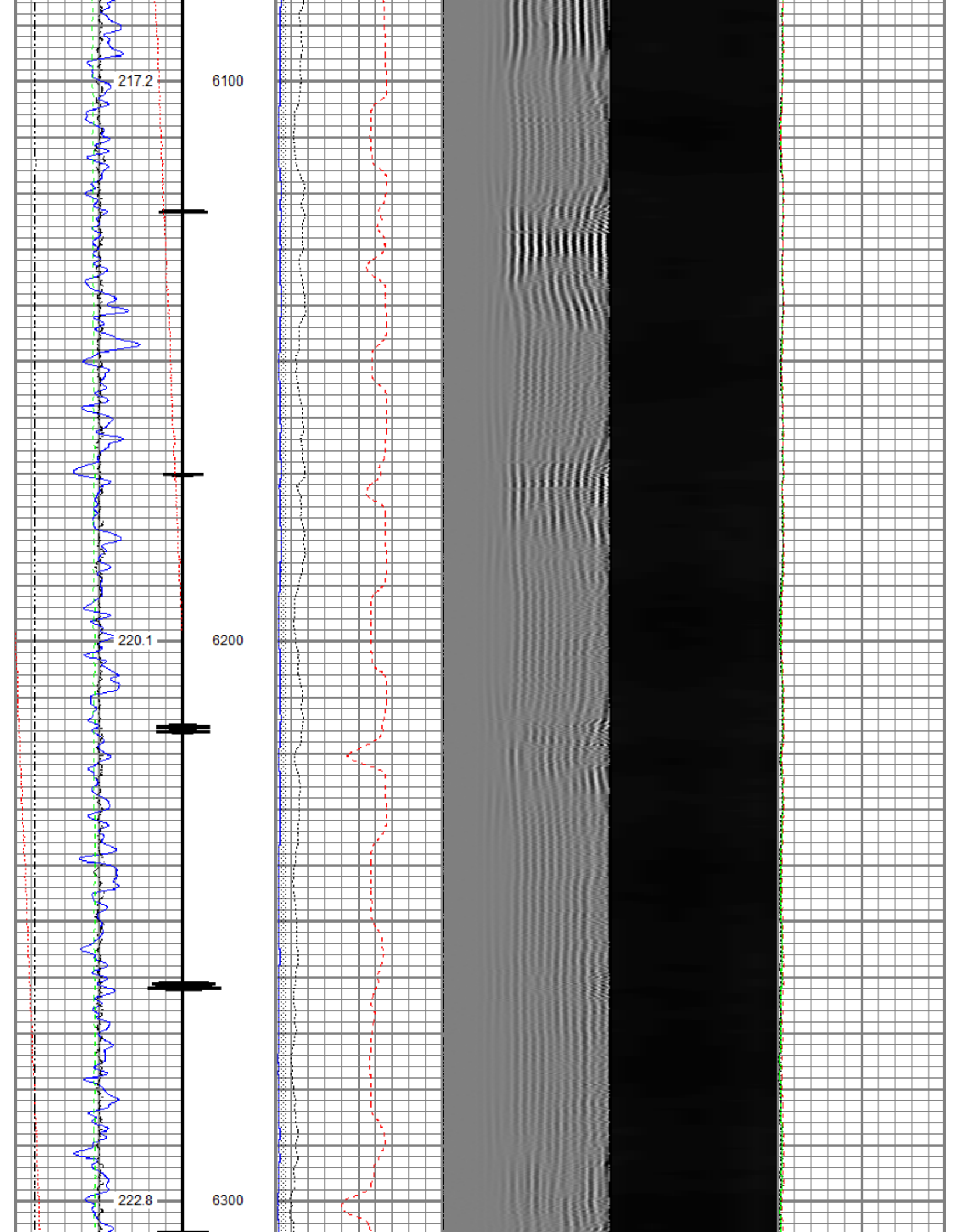


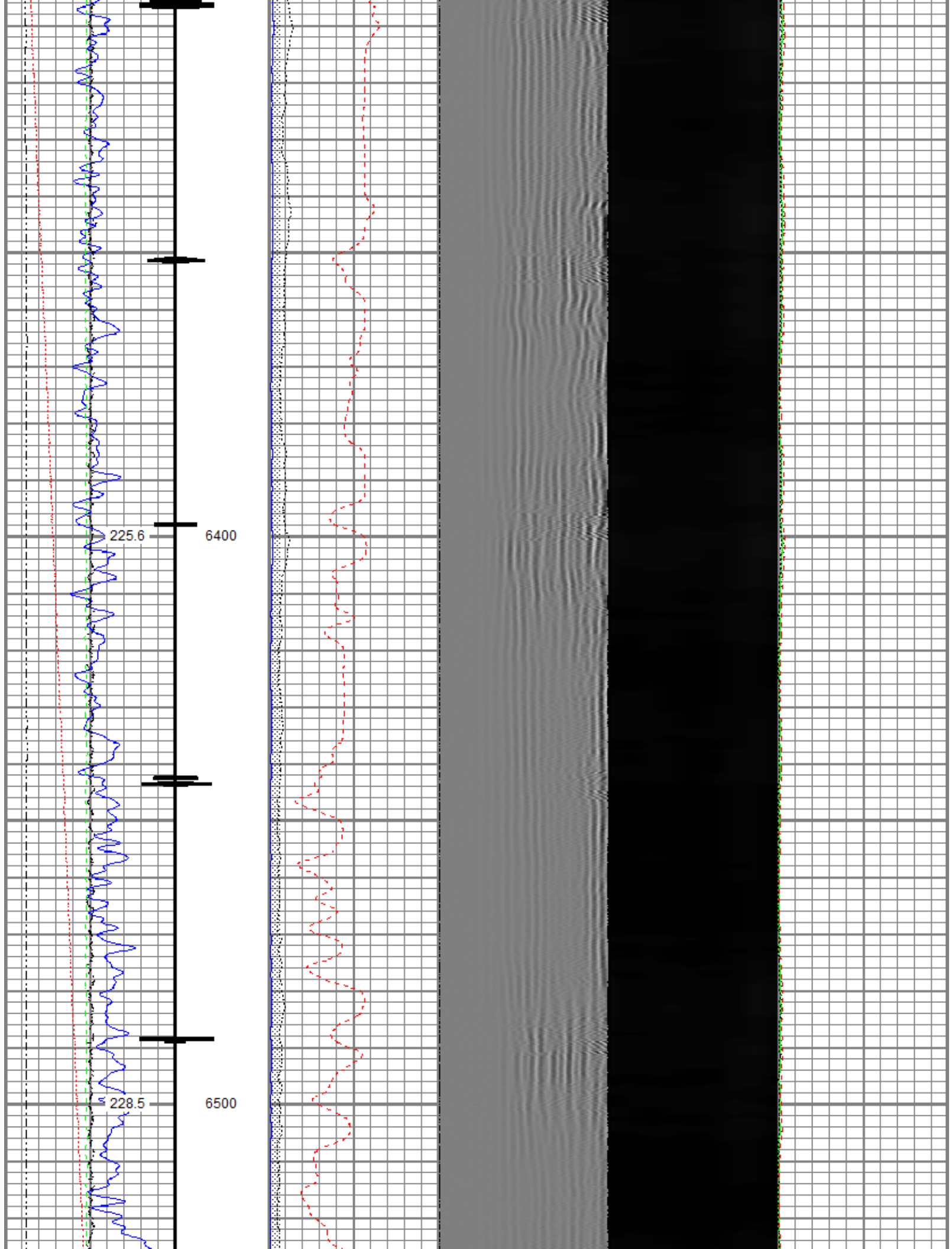


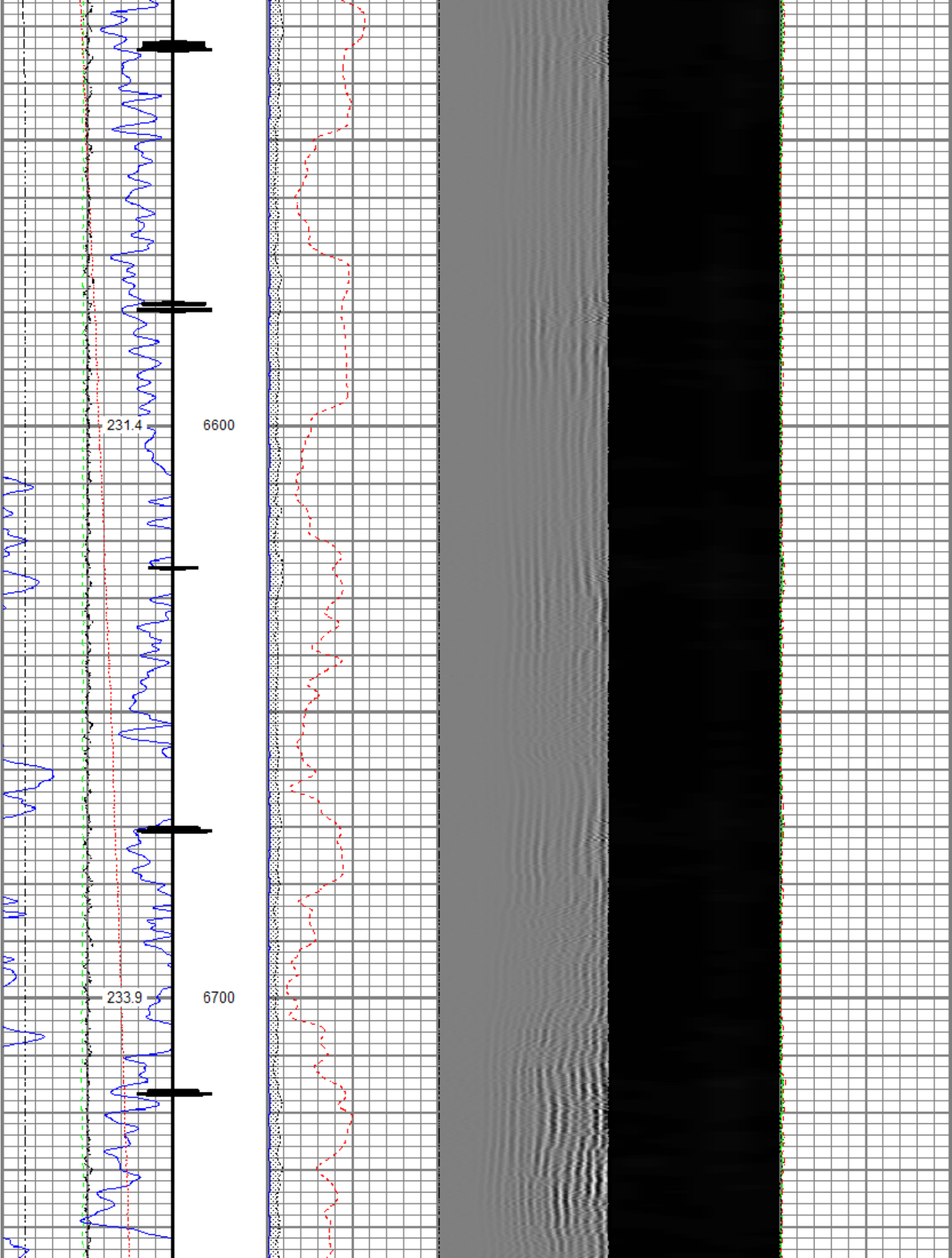


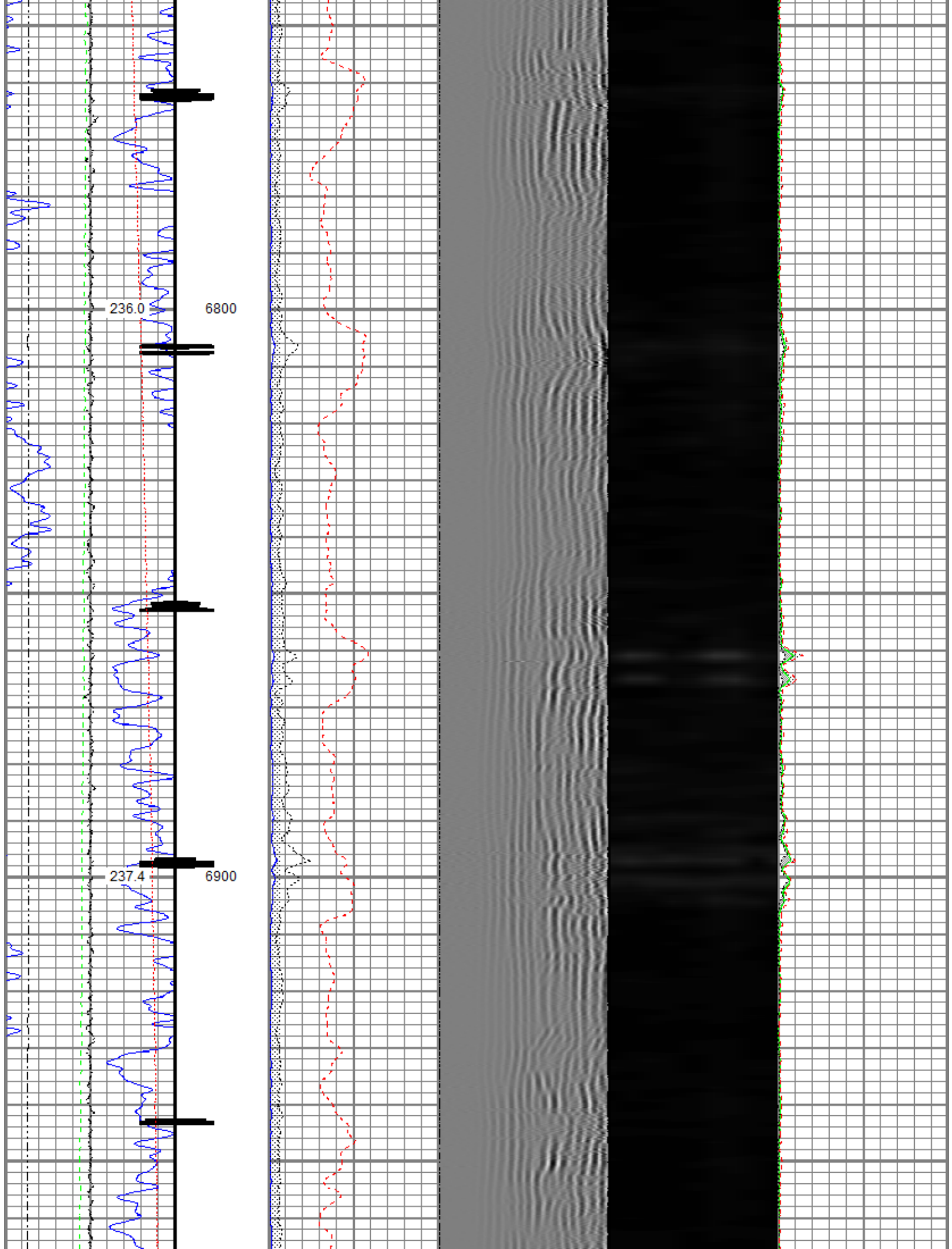


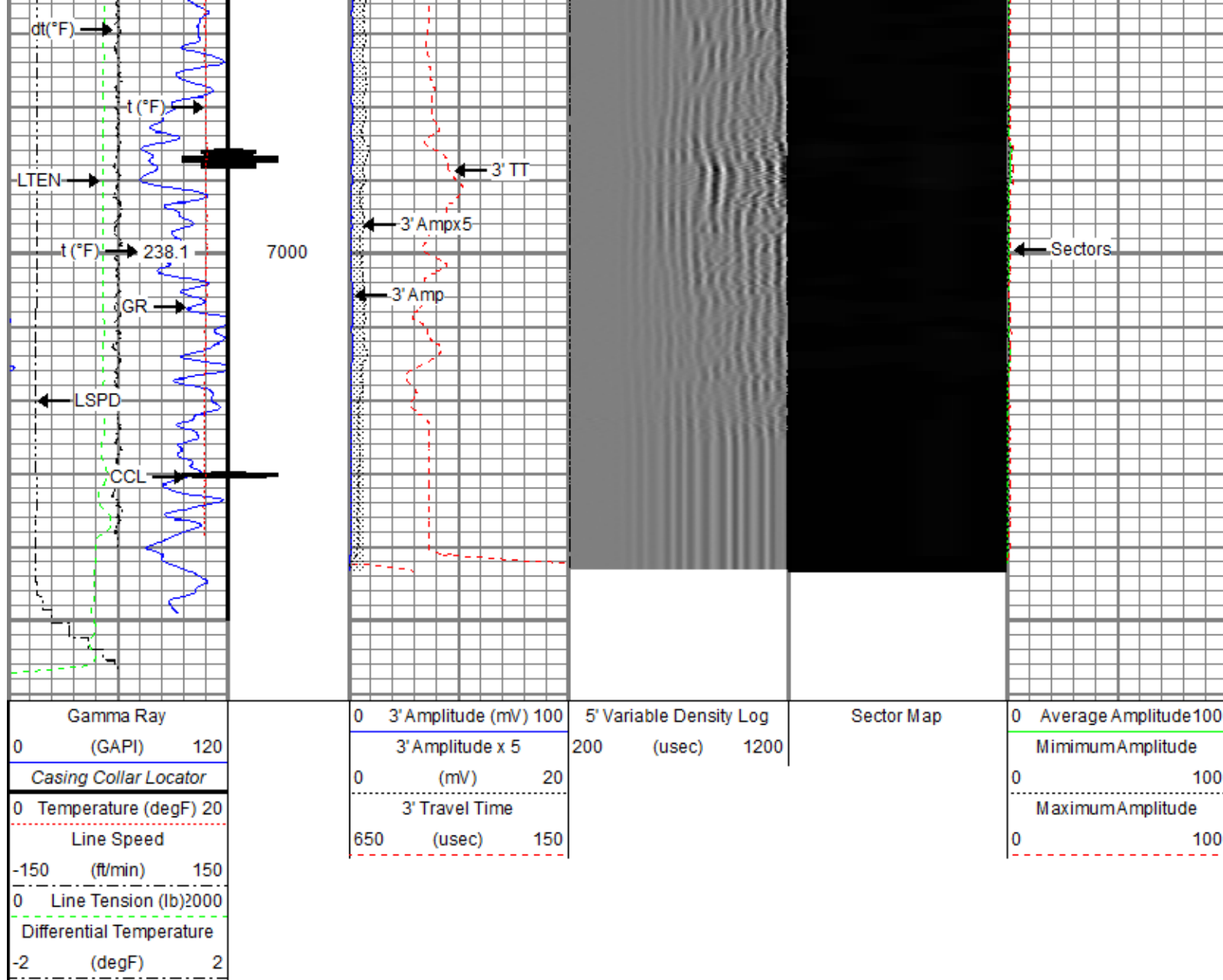








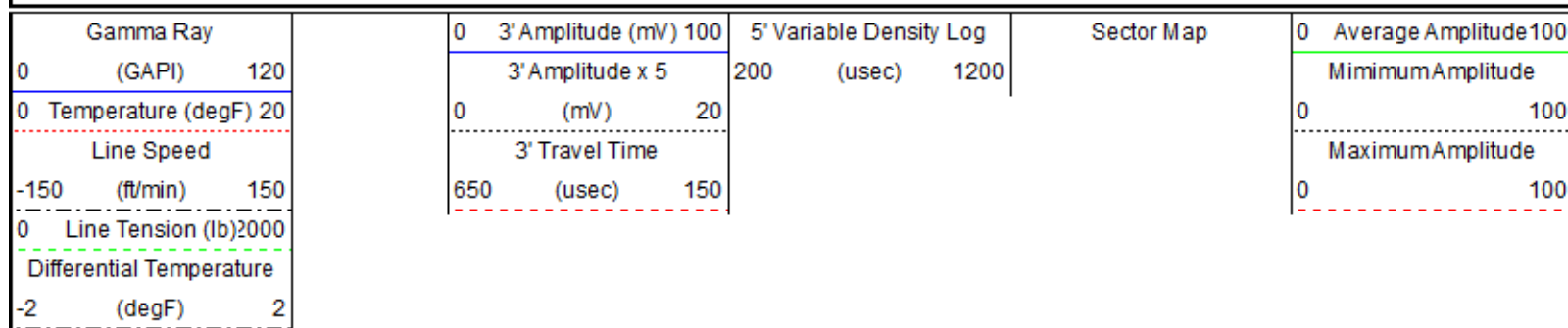


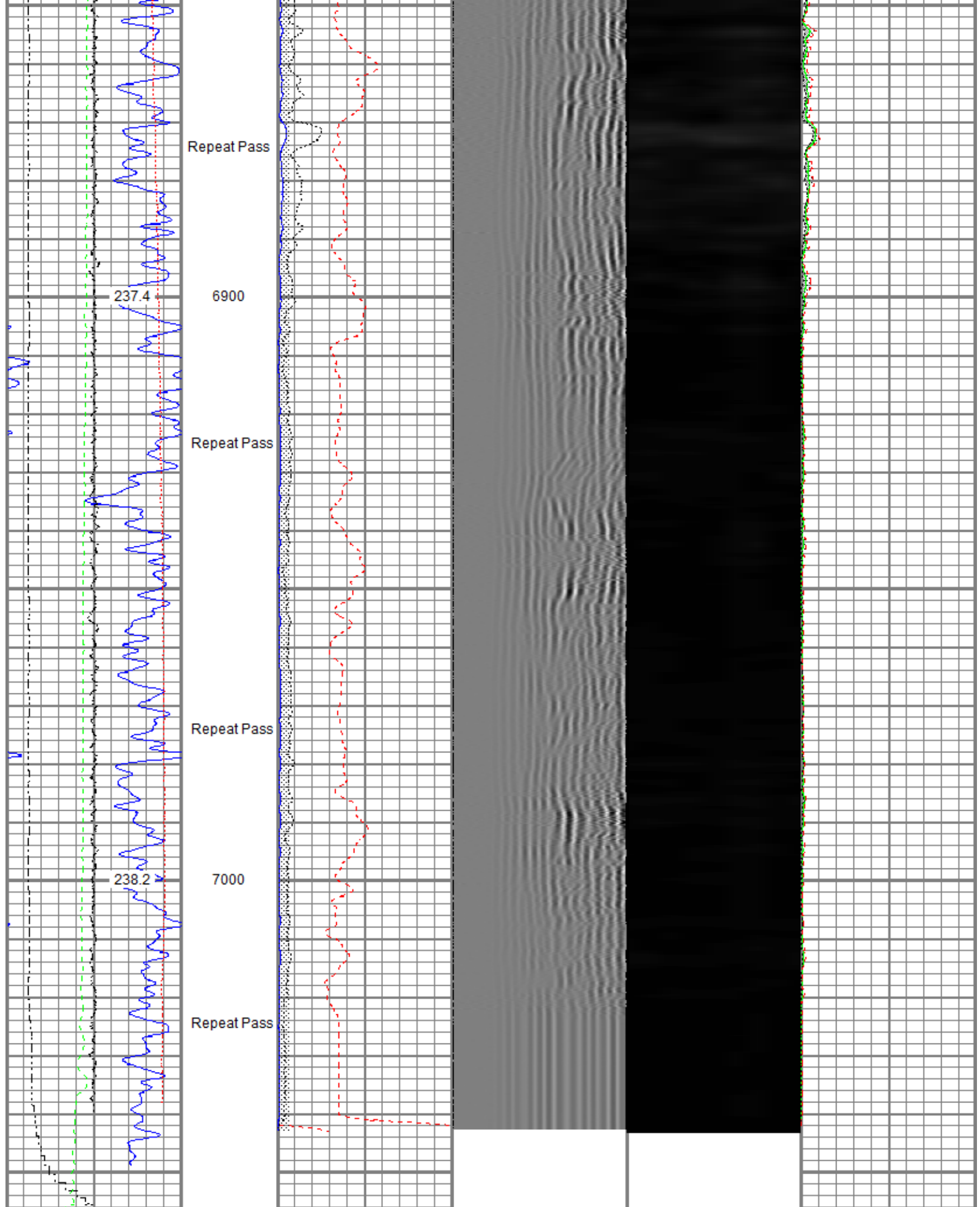


Repeat Pass



Recorded With 2000 PSI Surface Induced Pressure

Database File: noble\noble_reveille a34-768_rbl_03-21-21\noble_reveille a34-768_rbl_03-21-21.db
 Dataset Pathname: repeat/pass1
 Presentation Format: ros_radri_noble
 Dataset Creation: Sun Mar 21 09:56:38 2021
 Charted by: Depth in Feet scaled 1:240





Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
0 Temperature (degF) 20		0 (mV) 20			0	100

LOCTIM	0.00			Probe 2-3/4 Electric Inline Bowspring Centralizer			
UTCTIM	0.00						
Dataset: Noble_Reveille A34-768_RBL_03-21-21.db: field/well/main/pass1 Total length: 23.86 ft Total weight: 225.40 lb O.D.: 2.75 in							

Calibration Report		
Database File	C:\ProgramData\Warrior\Data\Noble\Noble_Reveille A34-768_RBL_03-21-21\Noble_Reveille A34-768_RBL_03-21-21.db	
Dataset Pathname	main/pass1	
Dataset Creation	Sun Mar 21 10:00:09 2021	
Gamma Ray Calibration Report		
Serial Number:	FW1810-044	
Tool Model:	2750 6PB	
Performed:	Mon Oct 19 14:19:51 2020	
Calibrator Value:	637.0	GAPI
Background Reading:	105.3	cps
Calibrator Reading:	1221.0	cps
Sensitivity:	0.5709	GAPI/cps

Segmented Cement Bond Log Calibration Report			
Serial Number:	FW1302-002		
Tool Model:	2750 RBTa		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	30.000	ft	

Master Calibration, performed Sun Mar 21 09:27:31 2021:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	0.579	0.800	71.921	124.762	-0.277
CAL	0.609	0.608				
5'	0.008	0.578	0.800	71.921	124.602	-0.152
SUM						
S1	0.006	0.549	0.000	100.000	183.937	-1.033
S2	0.008	0.583	0.000	100.000	174.002	-1.429
S3	0.008	0.638	0.000	100.000	158.812	-1.252
S4	0.008	0.662	0.000	100.000	152.973	-1.232
S5	0.008	0.654	0.000	100.000	154.901	-1.280
S6	0.008	0.606	0.000	100.000	167.246	-1.309
S7	0.008	0.561	0.000	100.000	180.907	-1.466
S8	0.008	0.541	0.000	100.000	187.403	-1.466

Air Zero Calibration, performed Sun Mar 21 09:27:11 2021:			
	Raw (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

Inclinometer Calibration Report

Performed:	Mon Oct 19 14:19:51 2020				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-891.00	891.00	-1.00	1.00	gee
Y Accelerometer	-899.00	877.00	-1.00	1.00	gee
Z Accelerometer	-7.47	873.36	0.00	1.00	gee

Temperature Calibration Report

Serial Number:	FW1302-002			
Tool Model:	2750 RBTa			
Performed:	Mon Oct 19 14:19:51 2020			
	Reference		Reading	
Low Reference:	100.00	degF	110.72	degF
High Reference:	350.00	degF	409.18	degF
Gain:	0.84			
Offset:	7.26			
Delta Spacing	1			



Company	Noble Energy Inc.
Well	Reveille A34-768
Field	Wattenberg
County	Weld
State	Colorado