



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Noble Energy Inc
Well Reveille A34-725
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-50797
SEC 35 TWP 6N RGE 64W
Permanent Datum Ground Level Elevation 4650'
Log Measured From Kelly Bushing 30 FT
Drilling Measured From Kelly Bushing
Other Services
Elevation
K.B. 4680'
D.F. ---
G.L. 4650'

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State Colorado

Date	06-FEB-2021											
Run Number	One											
Depth Driller	17121 FT											
Depth Logger	7288 FT											
Bottom Logged Interval	7275 FT											
Top Log Interval	Surface											
Open Hole Size	8.5"											
Type Fluid	Water											
Density / Viscosity	8.34 lb/gal											
Max. Recorded Temp.	242°F											
E. estimated Cement Top	See Log											
Time Well Ready	ROA											
Time Logger on Bottom	13.31											
E. equipment Number	HD-0325											
Location	Platteville, CO											
Recorded By	Matt Steinman											
Witnessed By	Sheldon Kelly											
Borehole Record											Tubing Record	
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	1934.8 FT							
Intermediate #1	5 1/2	17	P-110CY	Surface	17108.9 FT							
Intermediate #2												
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

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6266.5 FT
Adjusted -14 FT to correlate with Marker Joint
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

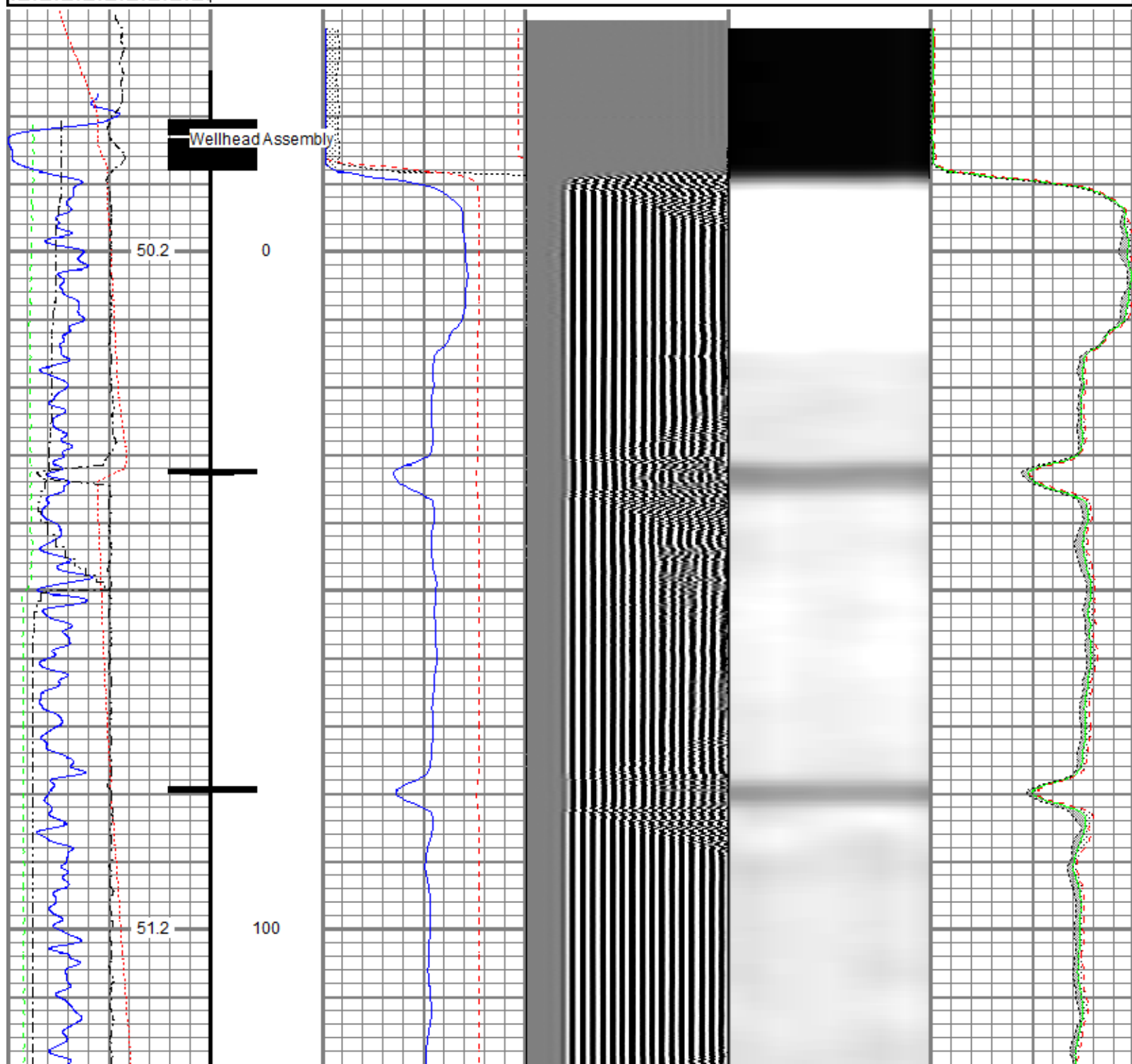
Main Pass

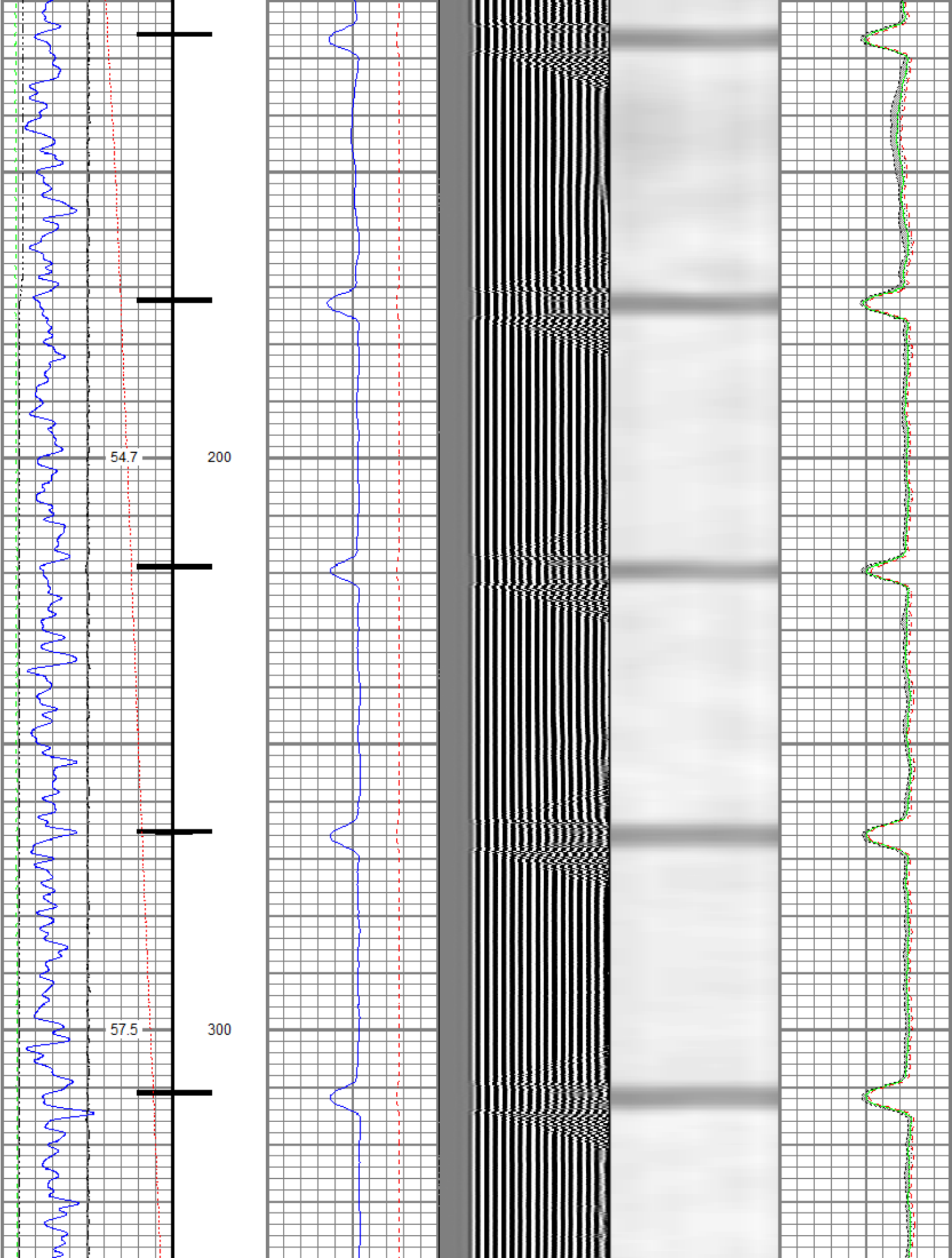


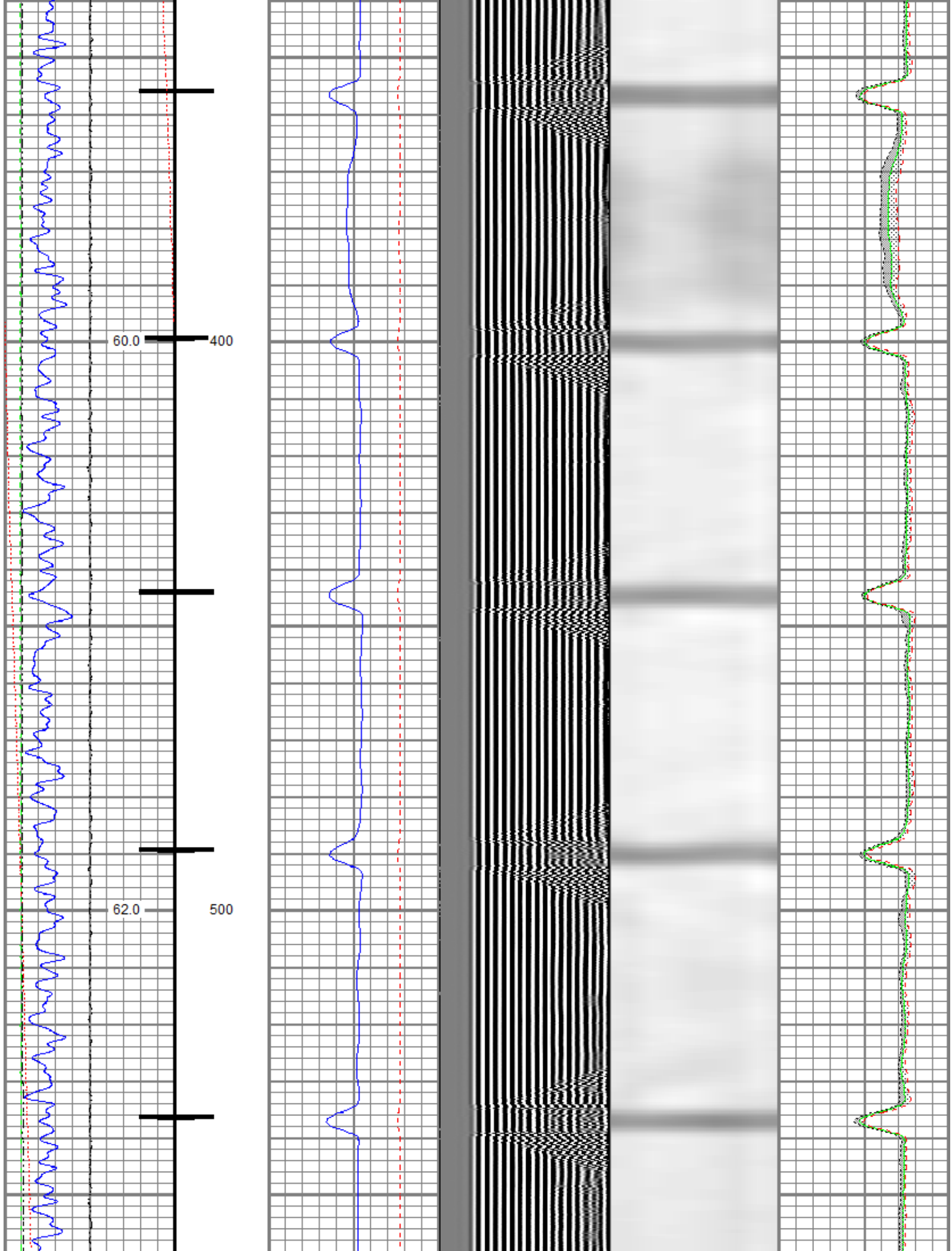
Recorded With 2500 PSI Surface Induced Pressure

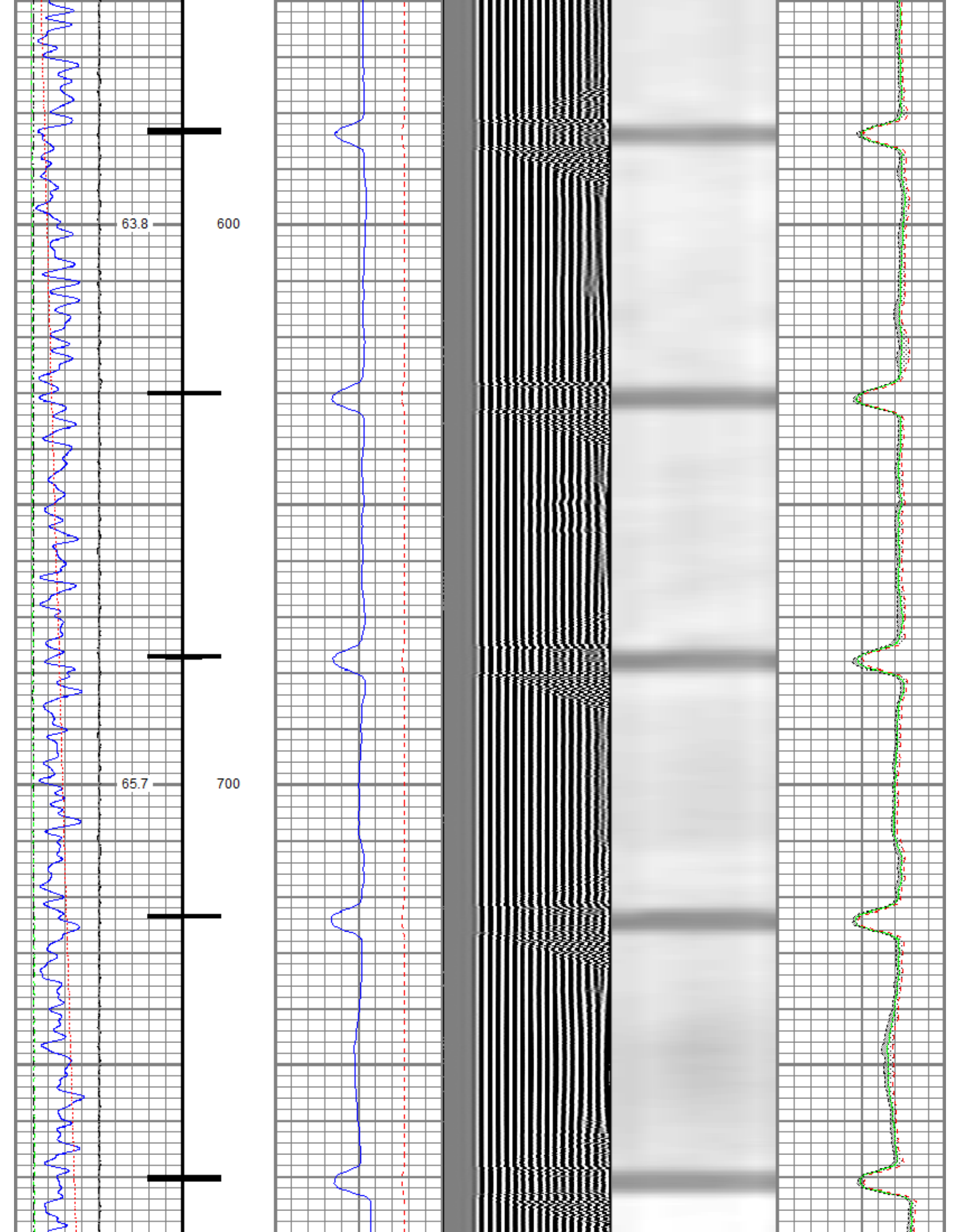
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 Dataset Pathname main/pass1.2
 Presentation Format ros_radri_noble
 Dataset Creation Sat Feb 06 15:02:00 2021
 Charted by Depth in Feet scaled 1:240

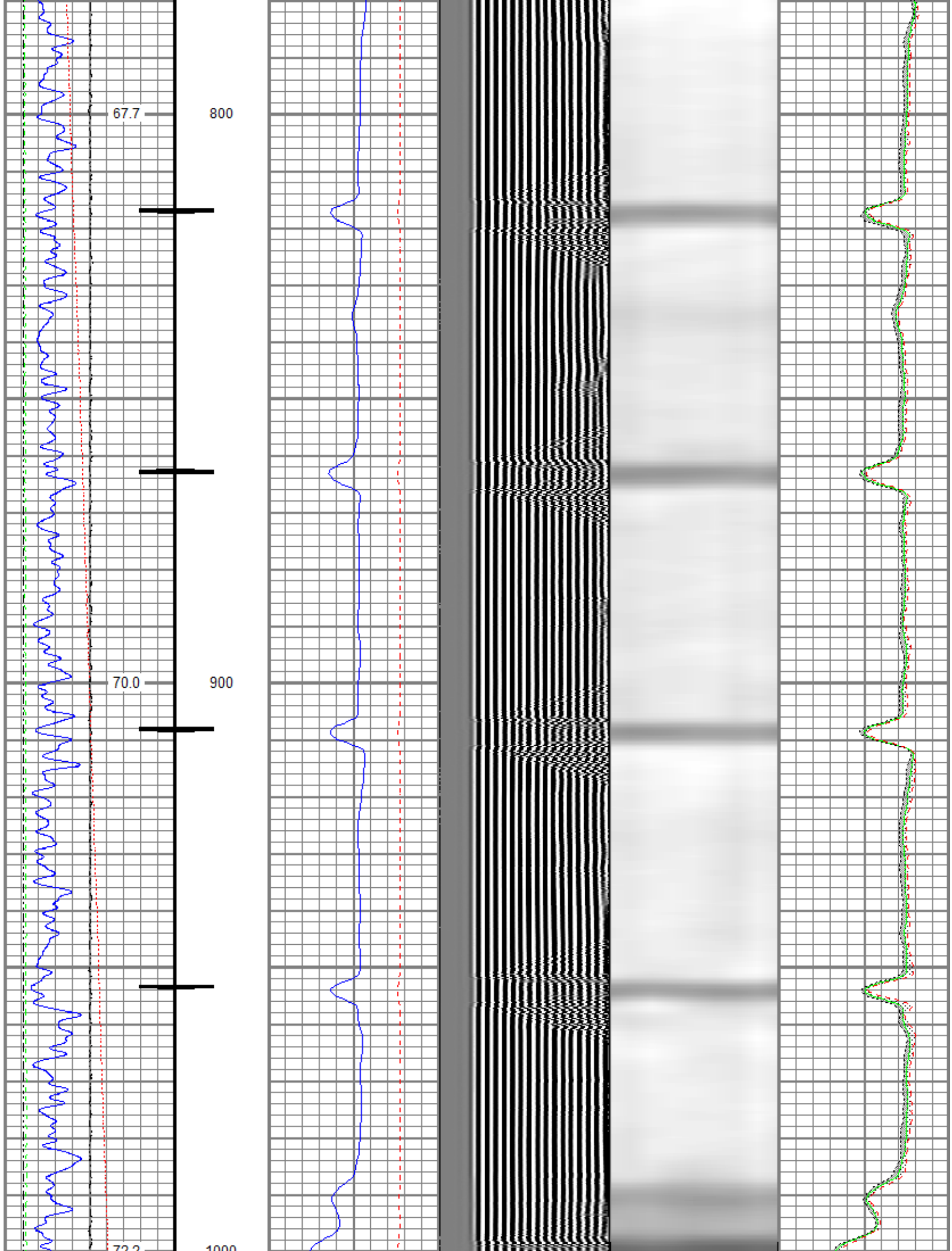
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	(usec)	1200		Minimum Amplitude	
Casing Collar Log		0	(mV)	20		0	100	
Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150		0	100	
(ft/min)	150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

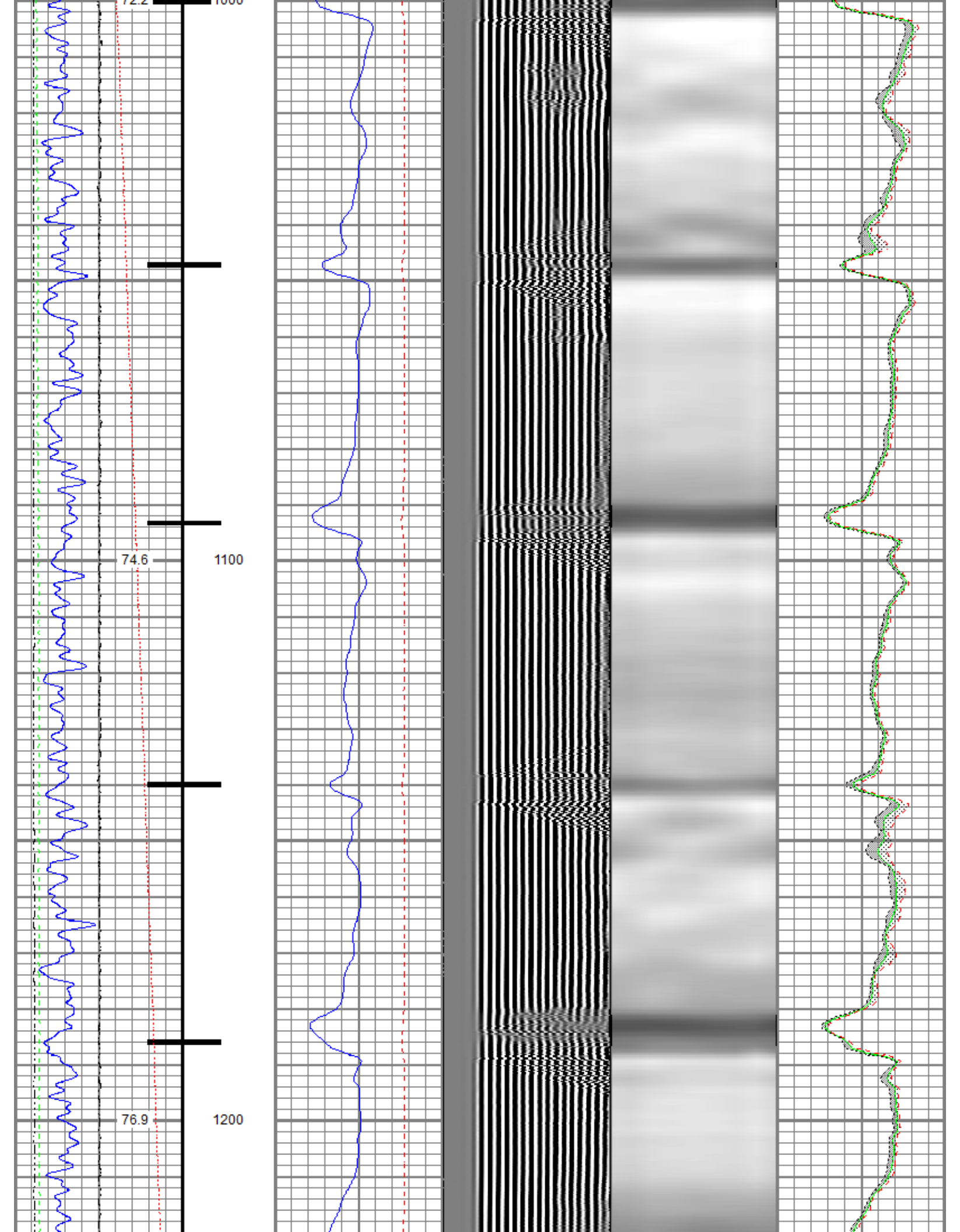


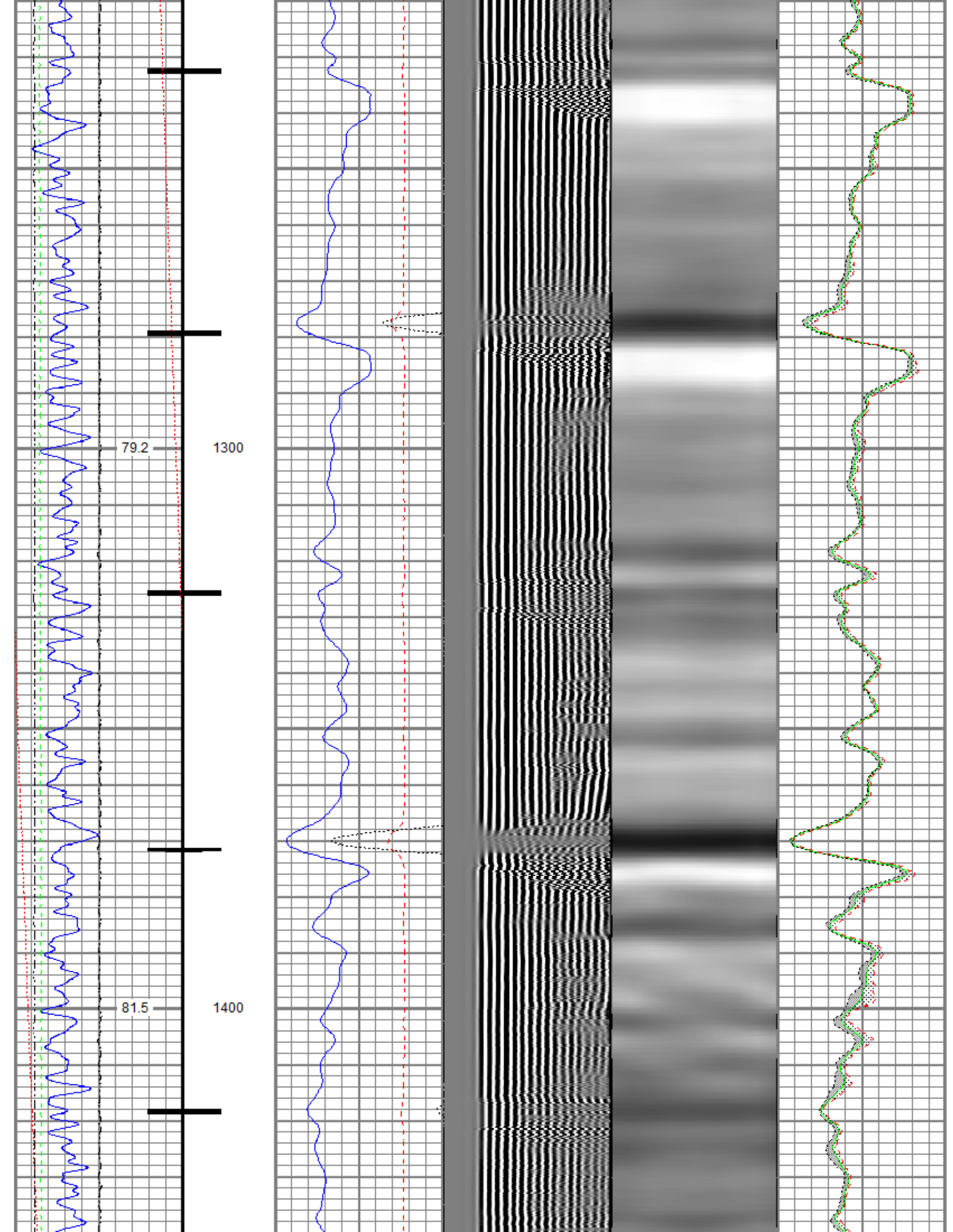


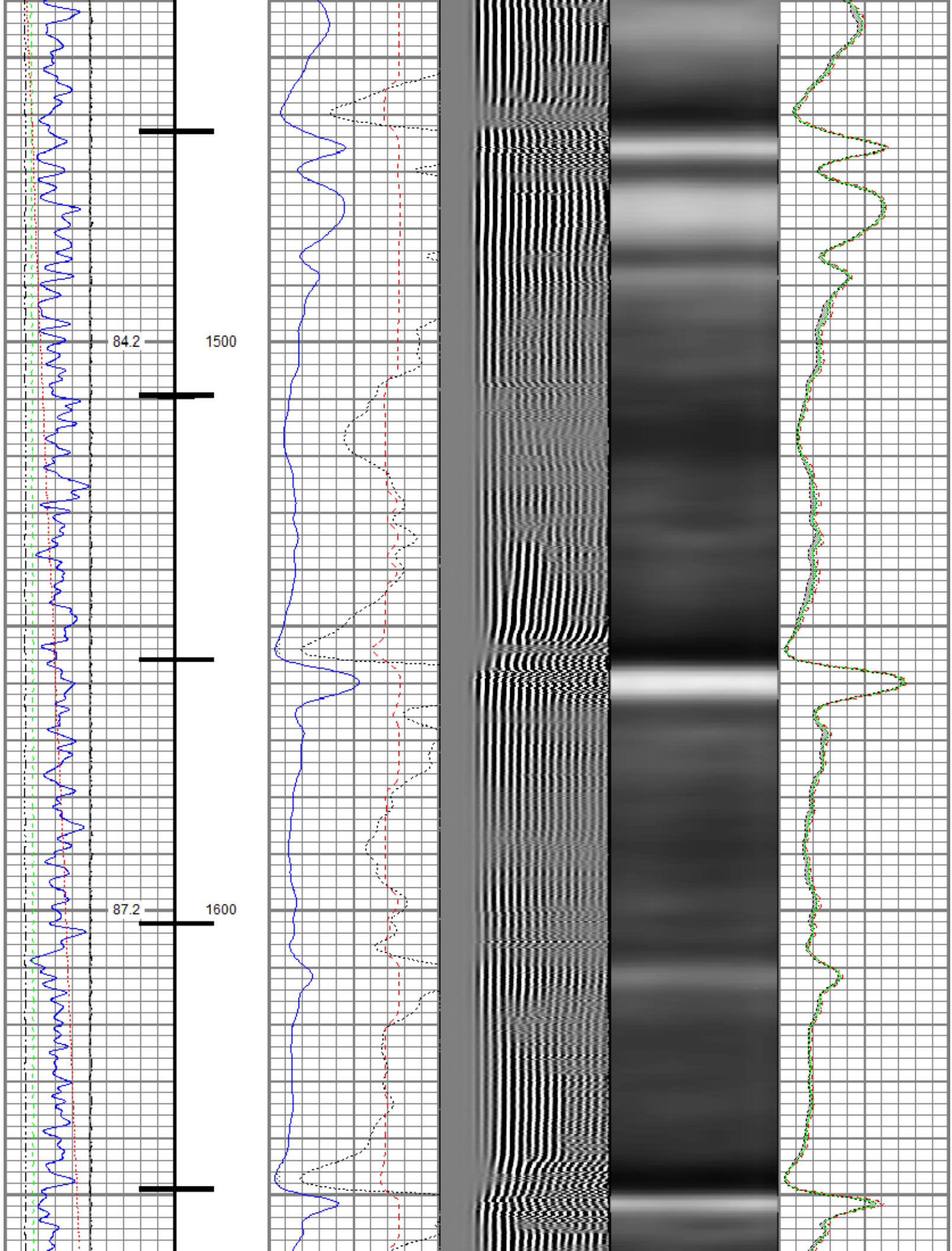


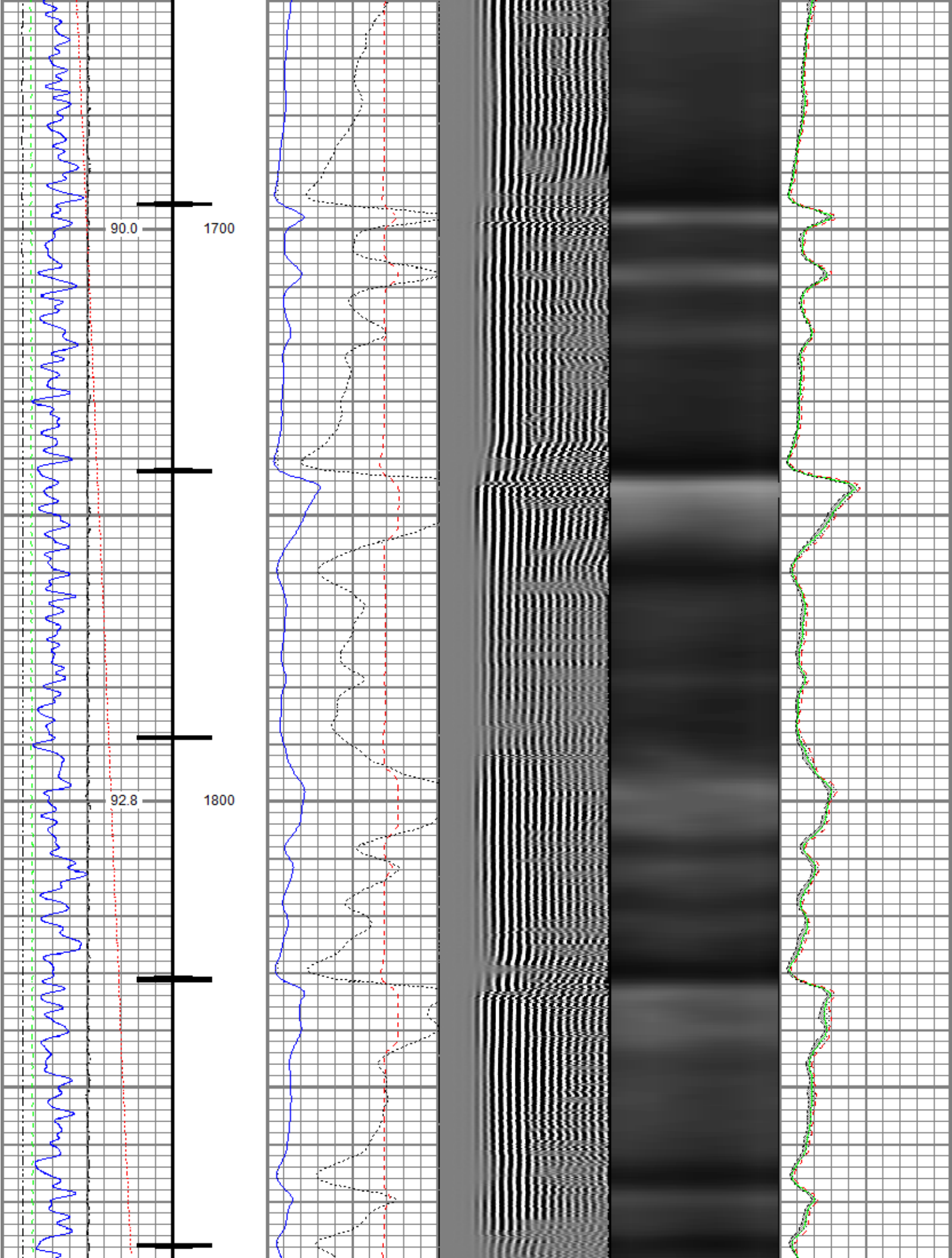


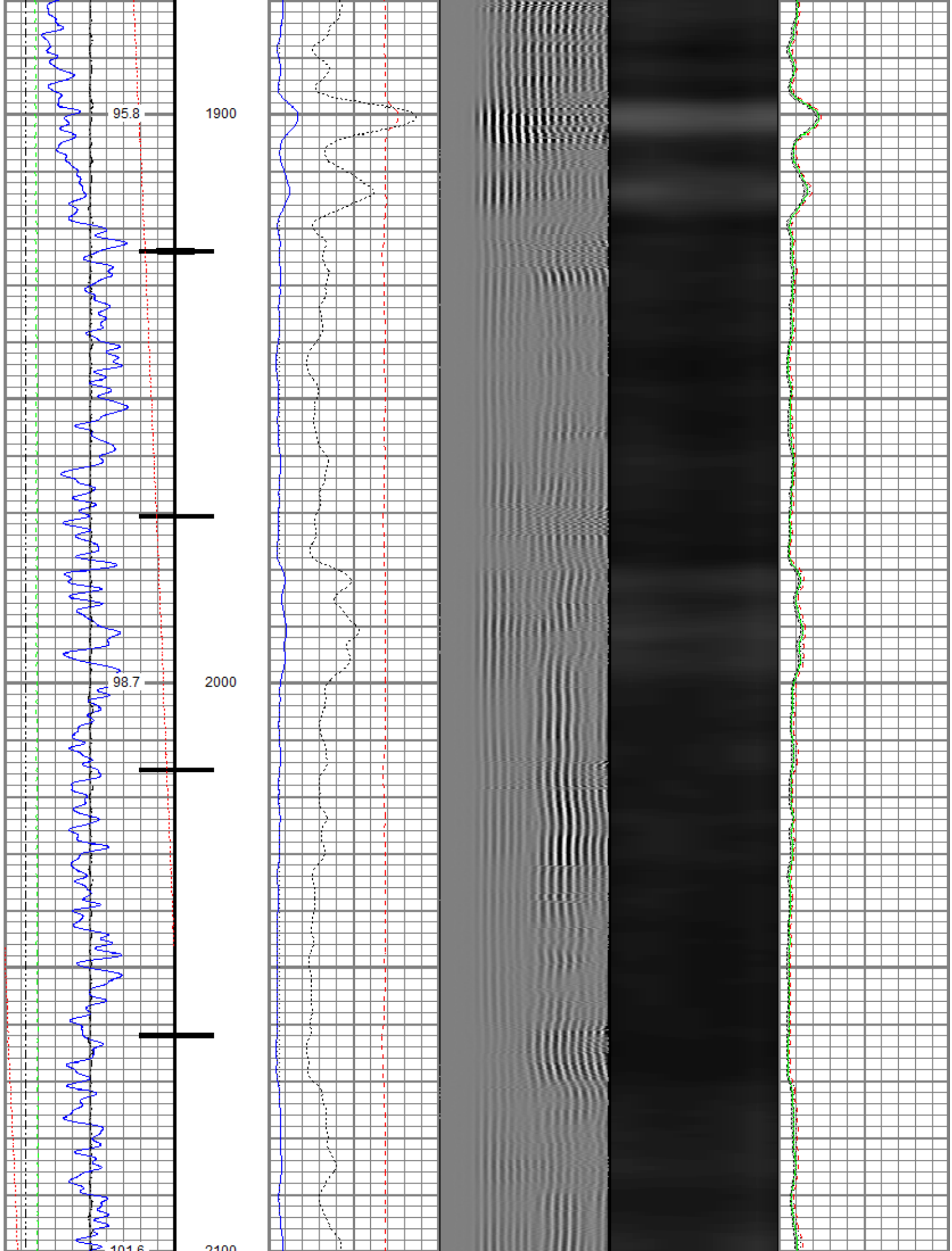


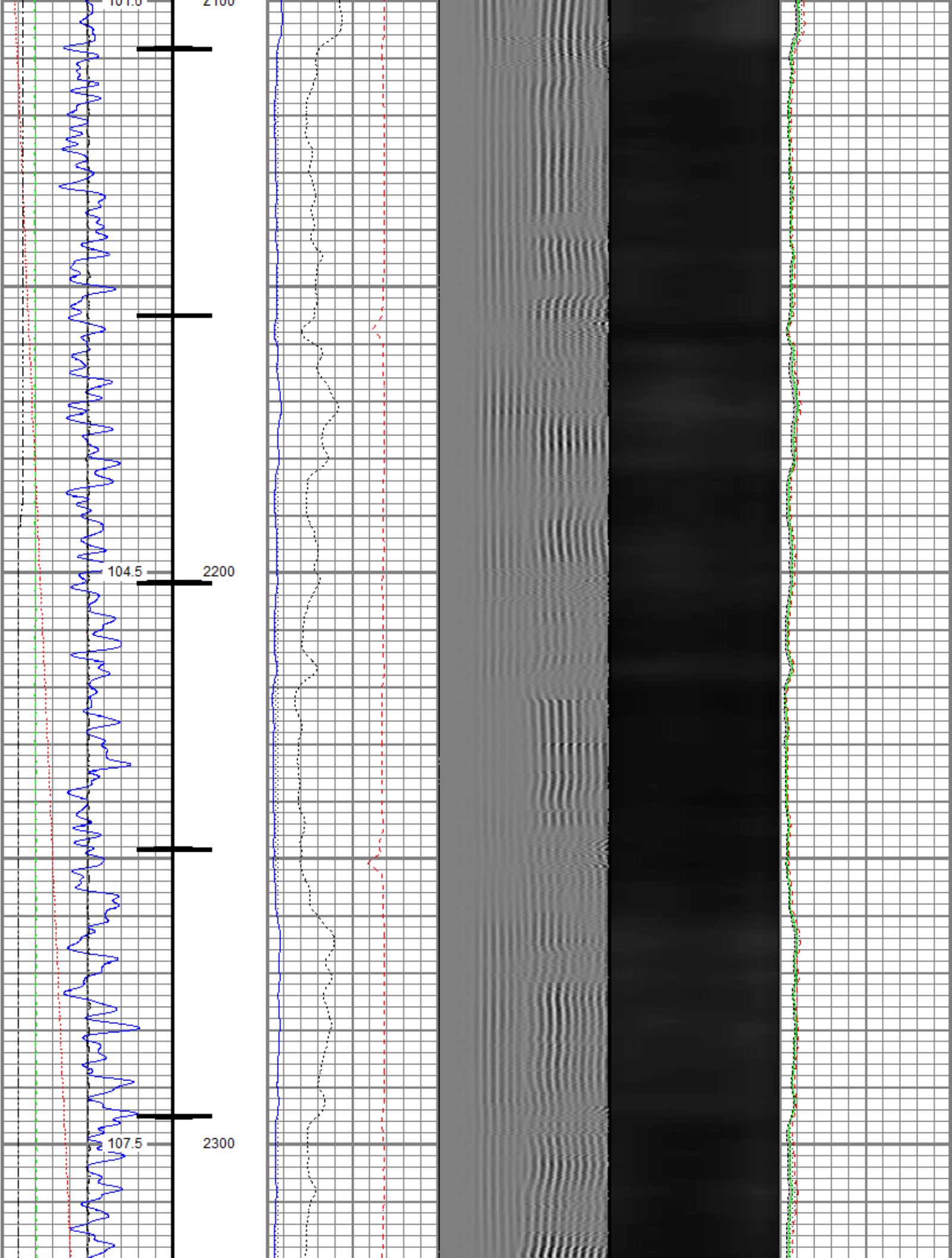


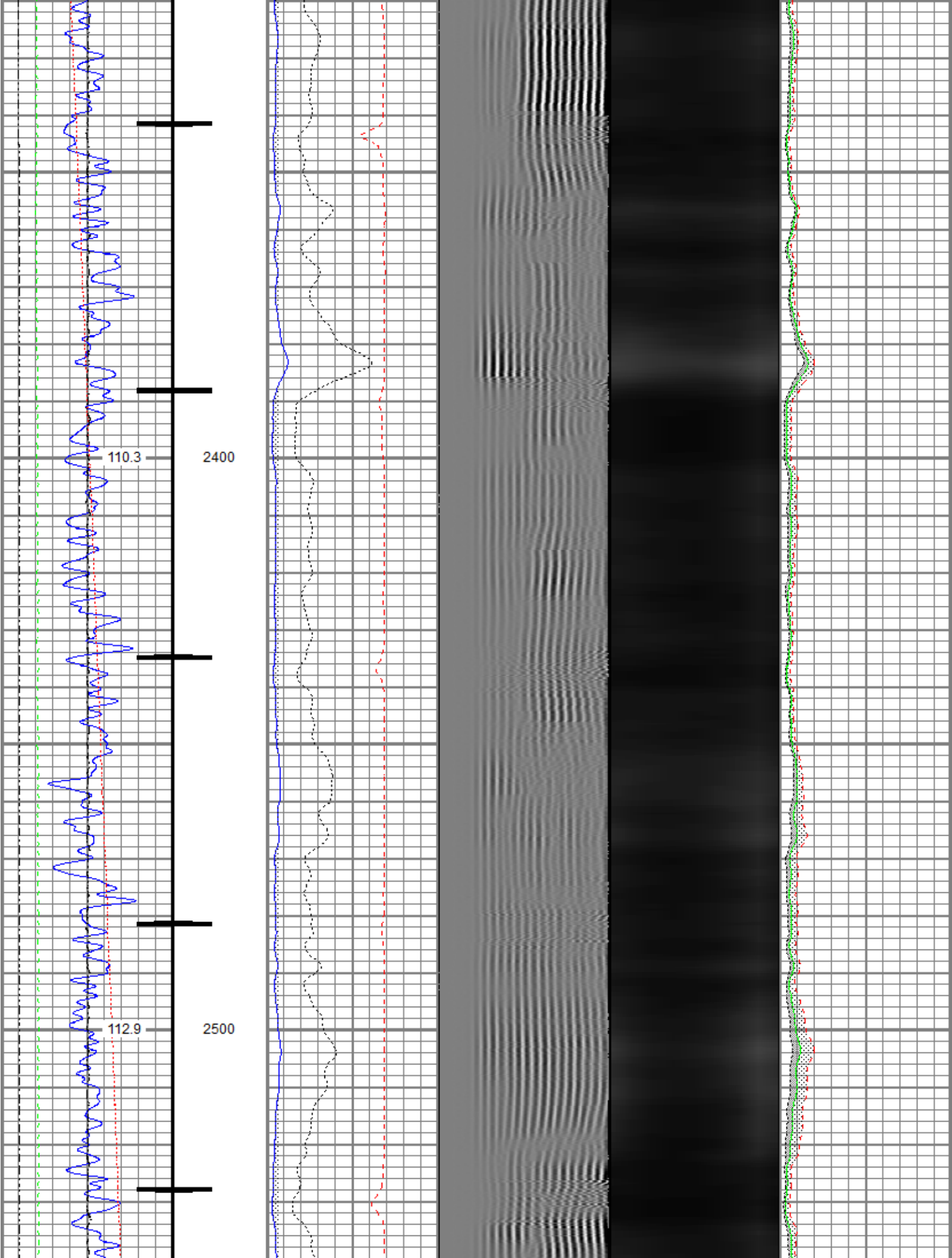


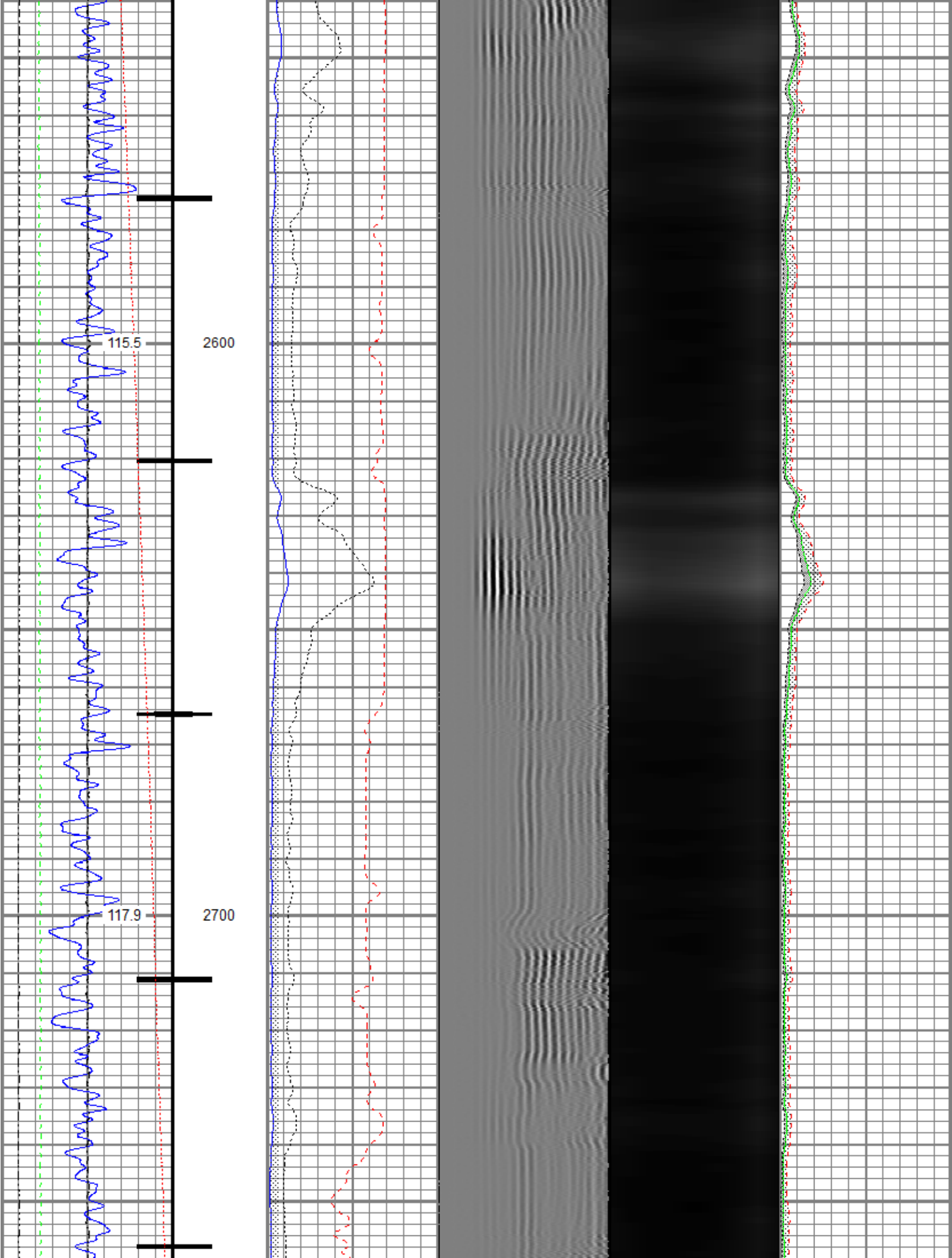


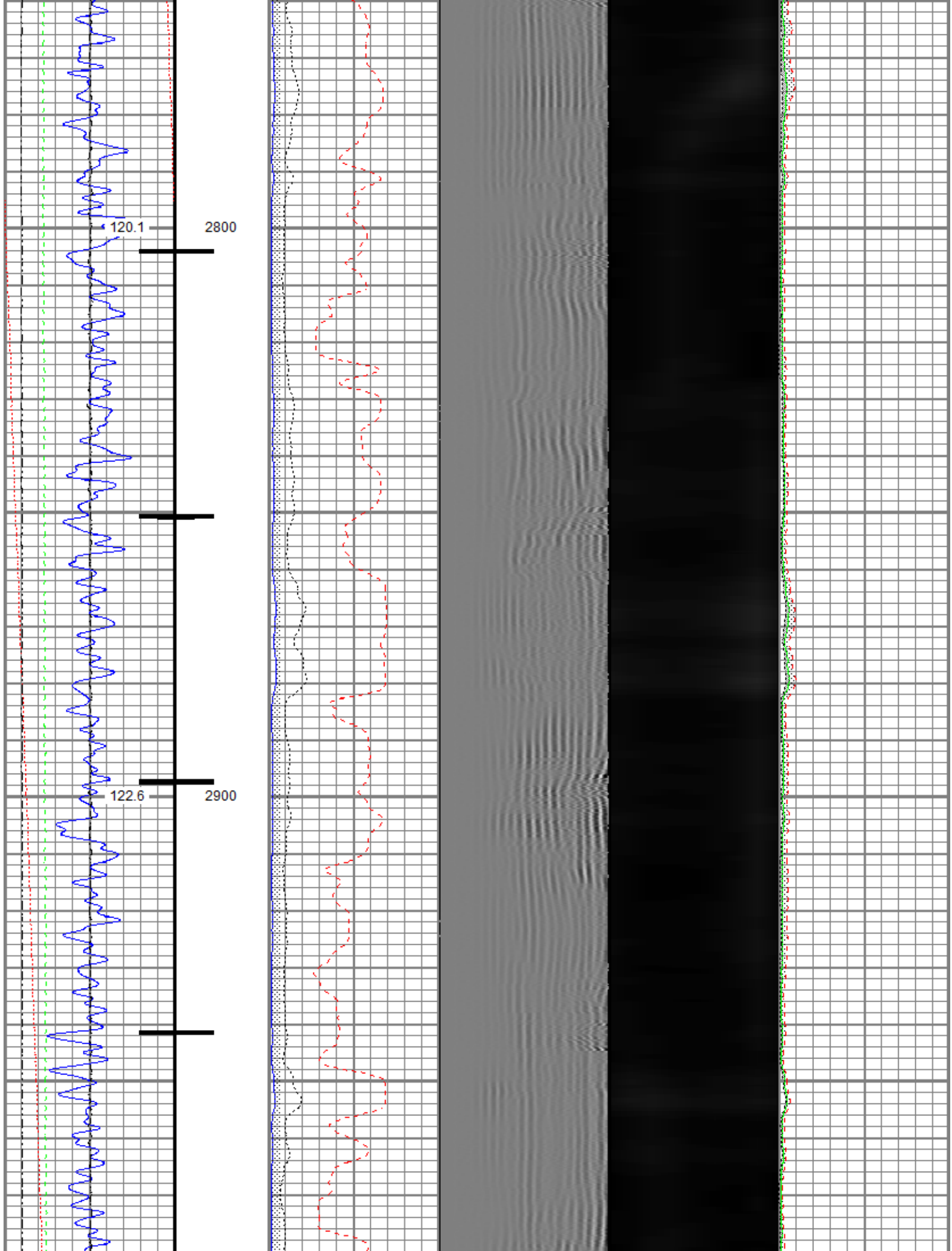


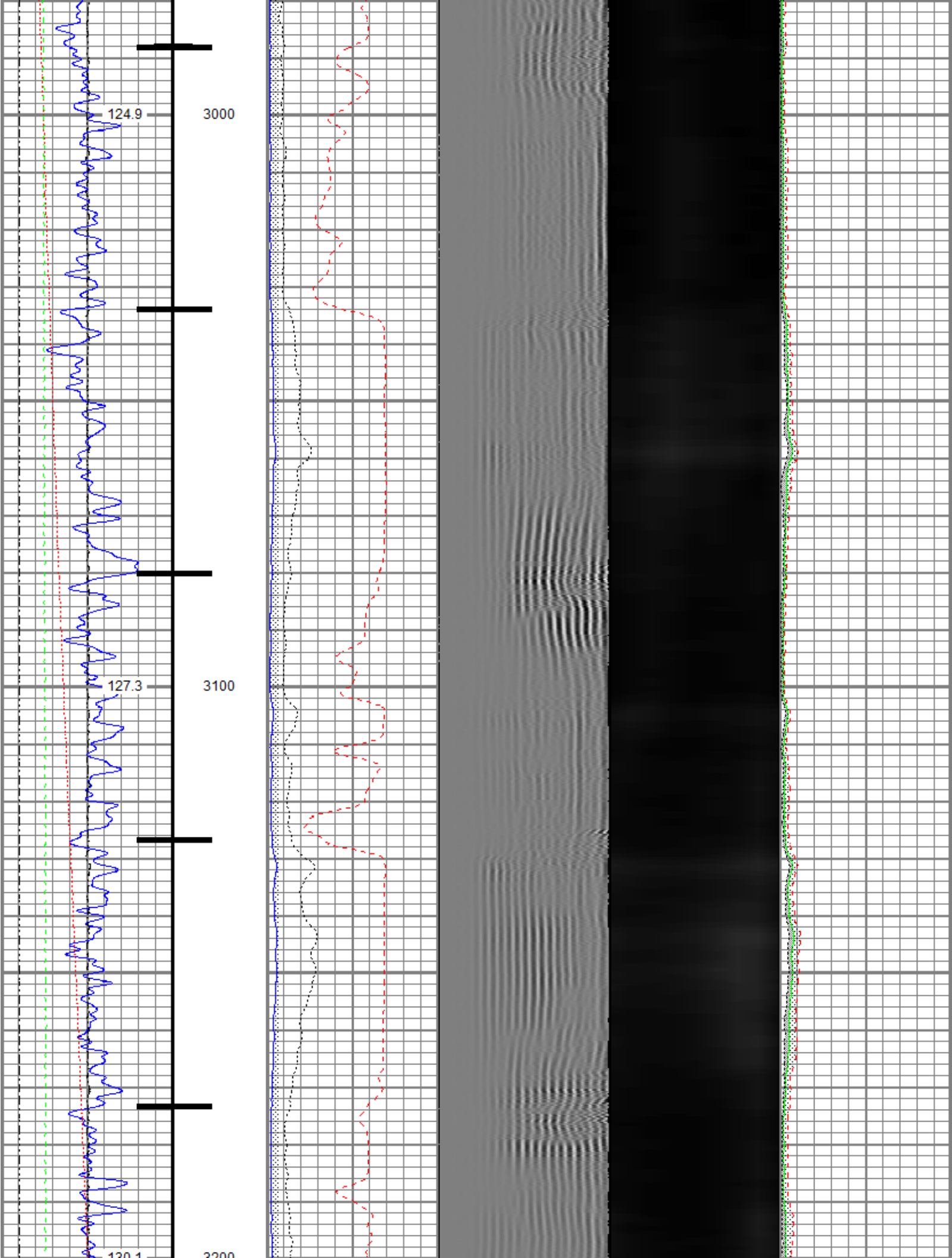


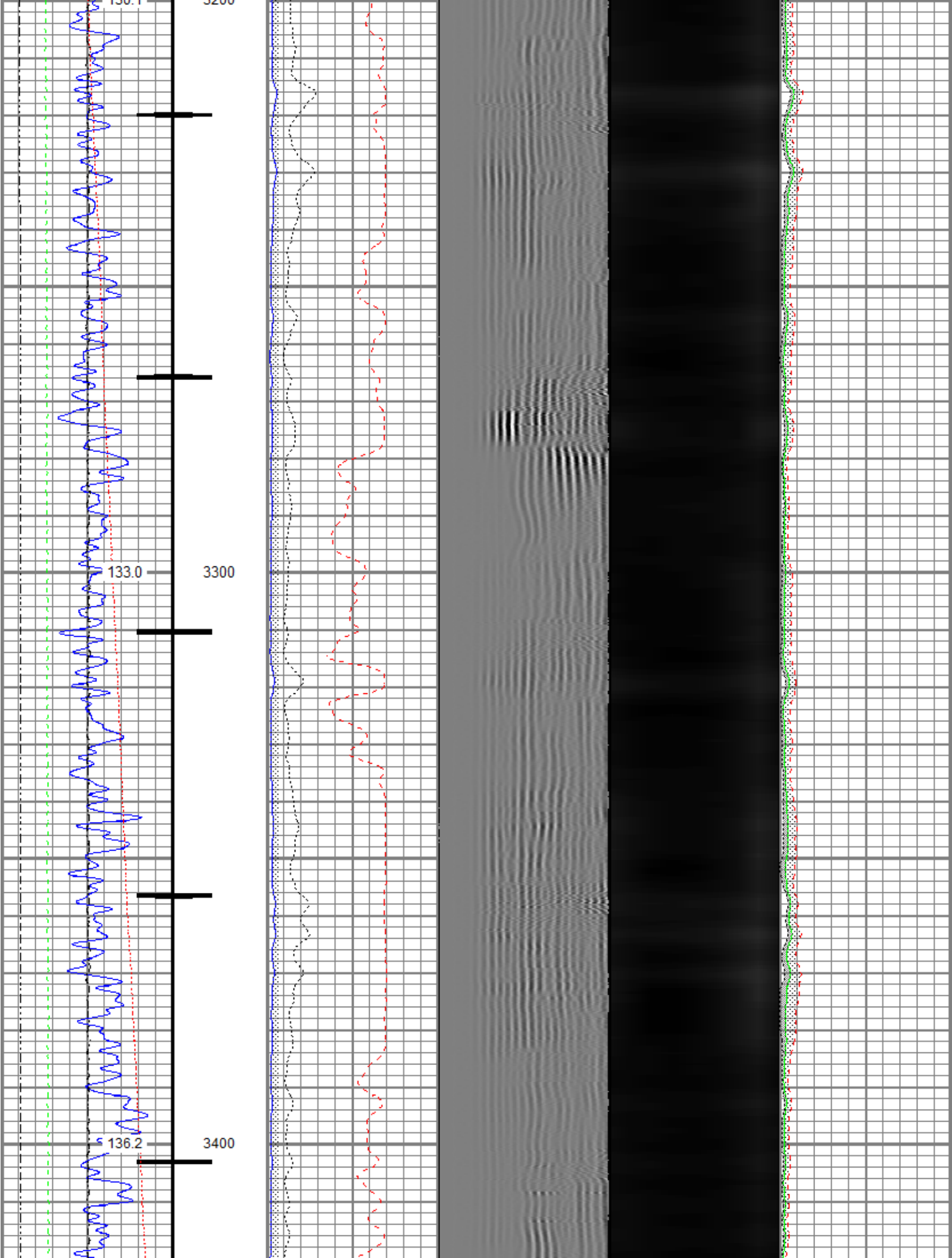


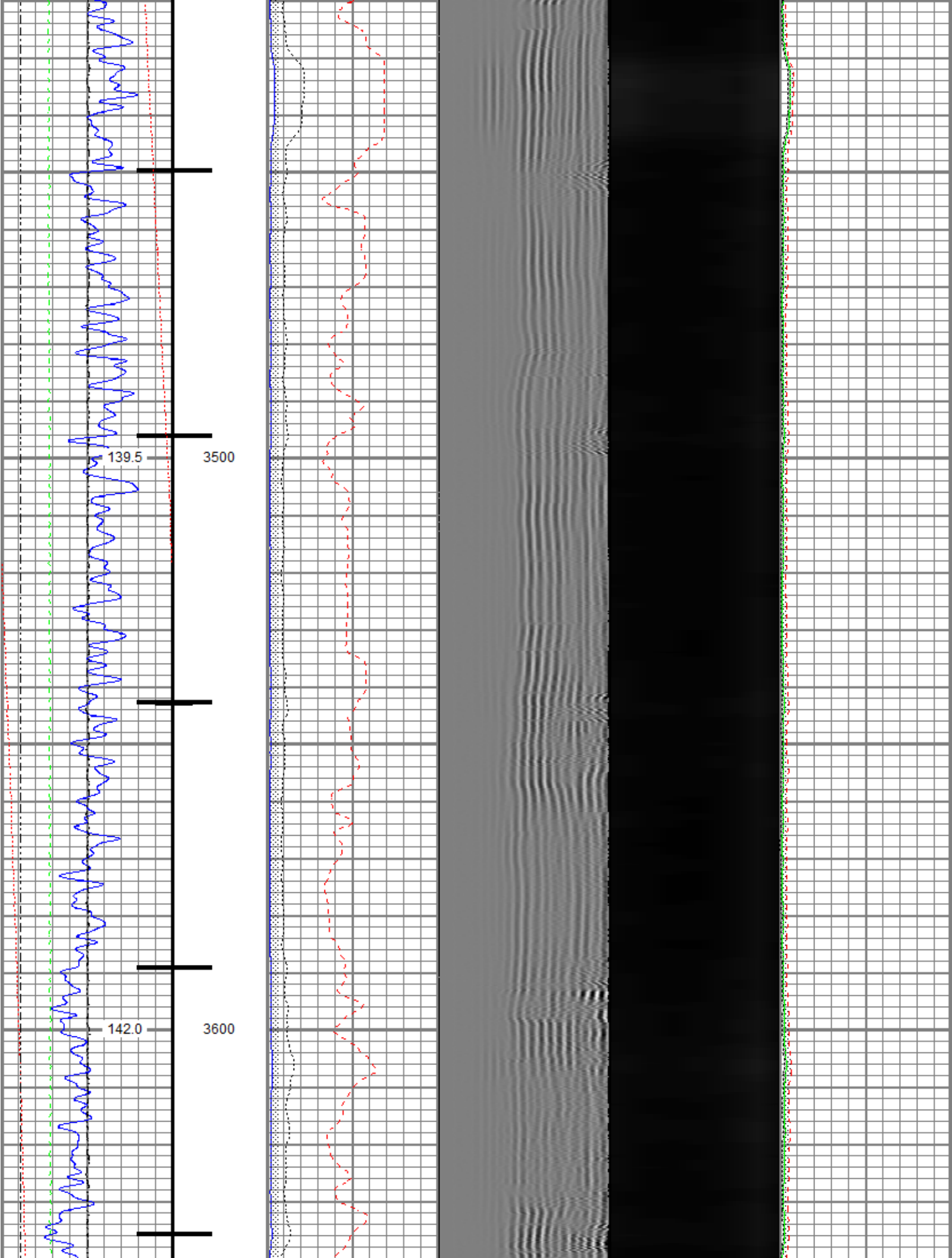


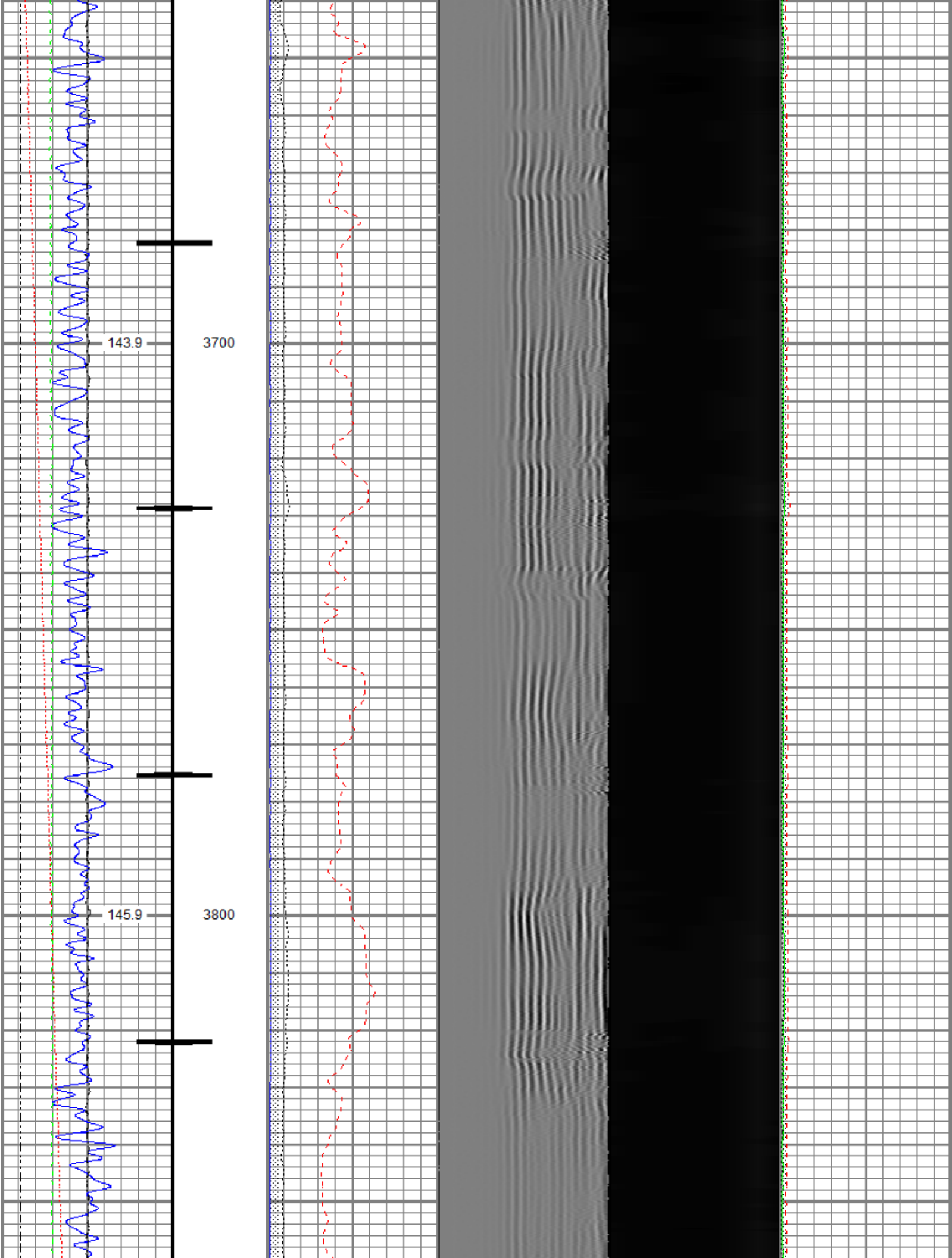


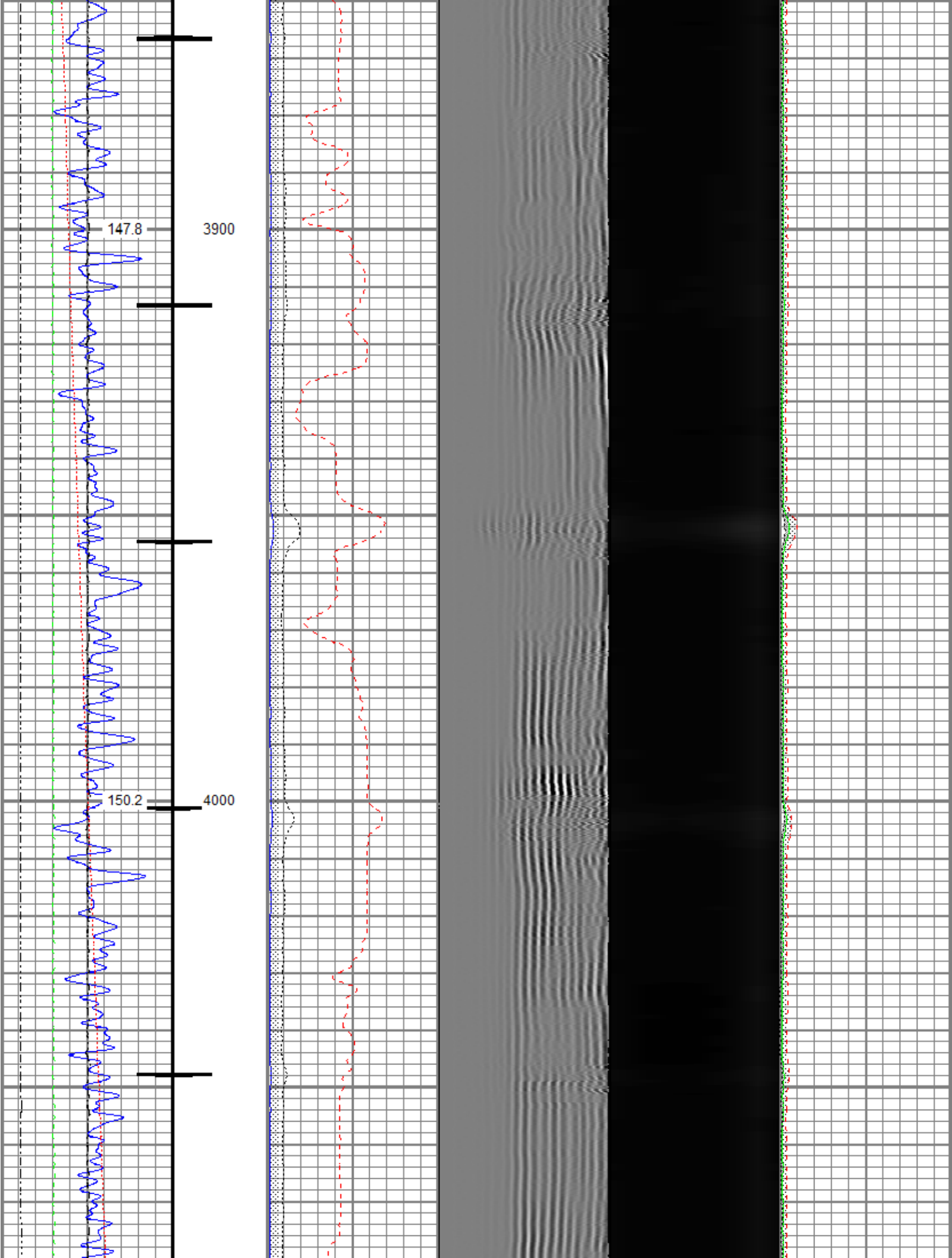


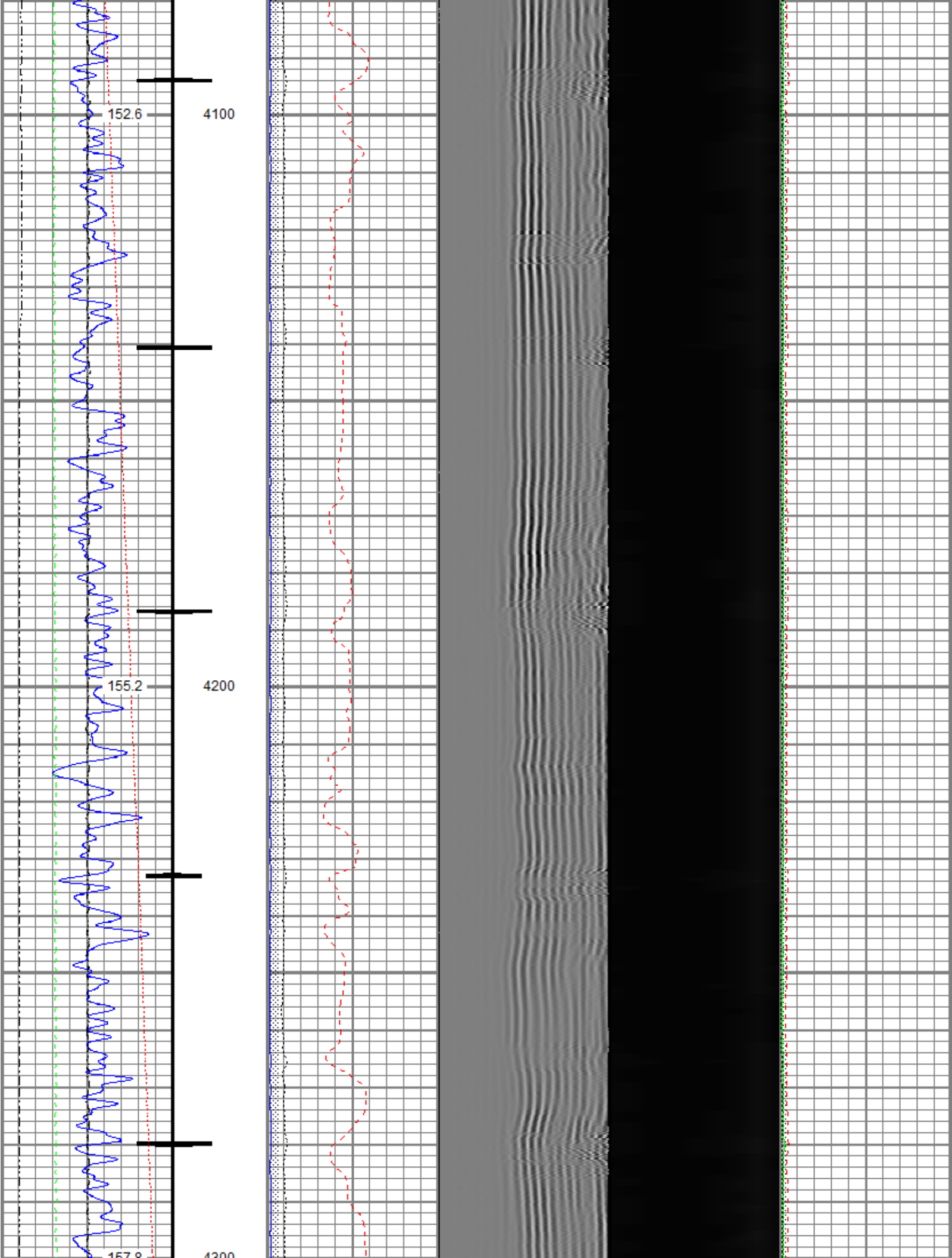


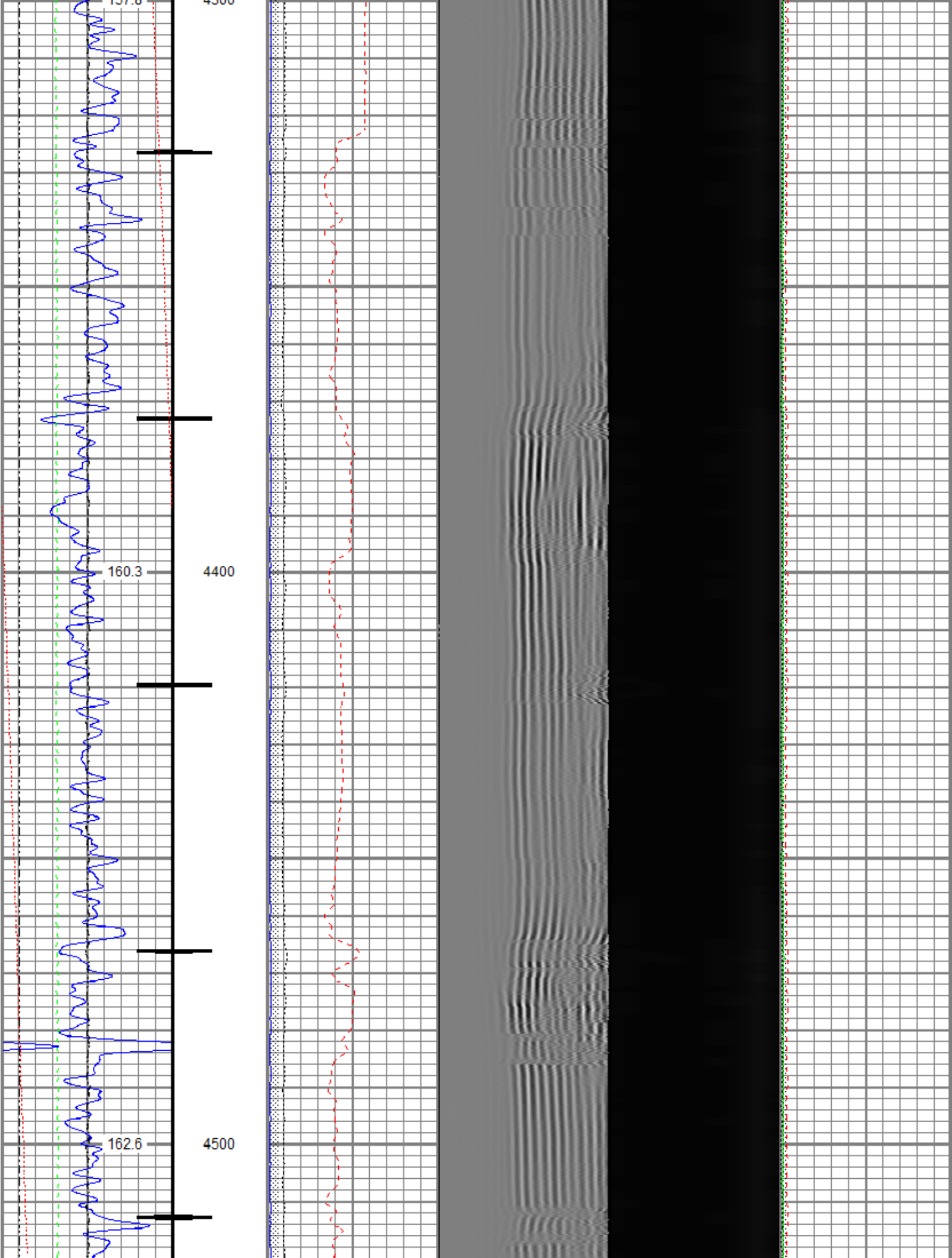


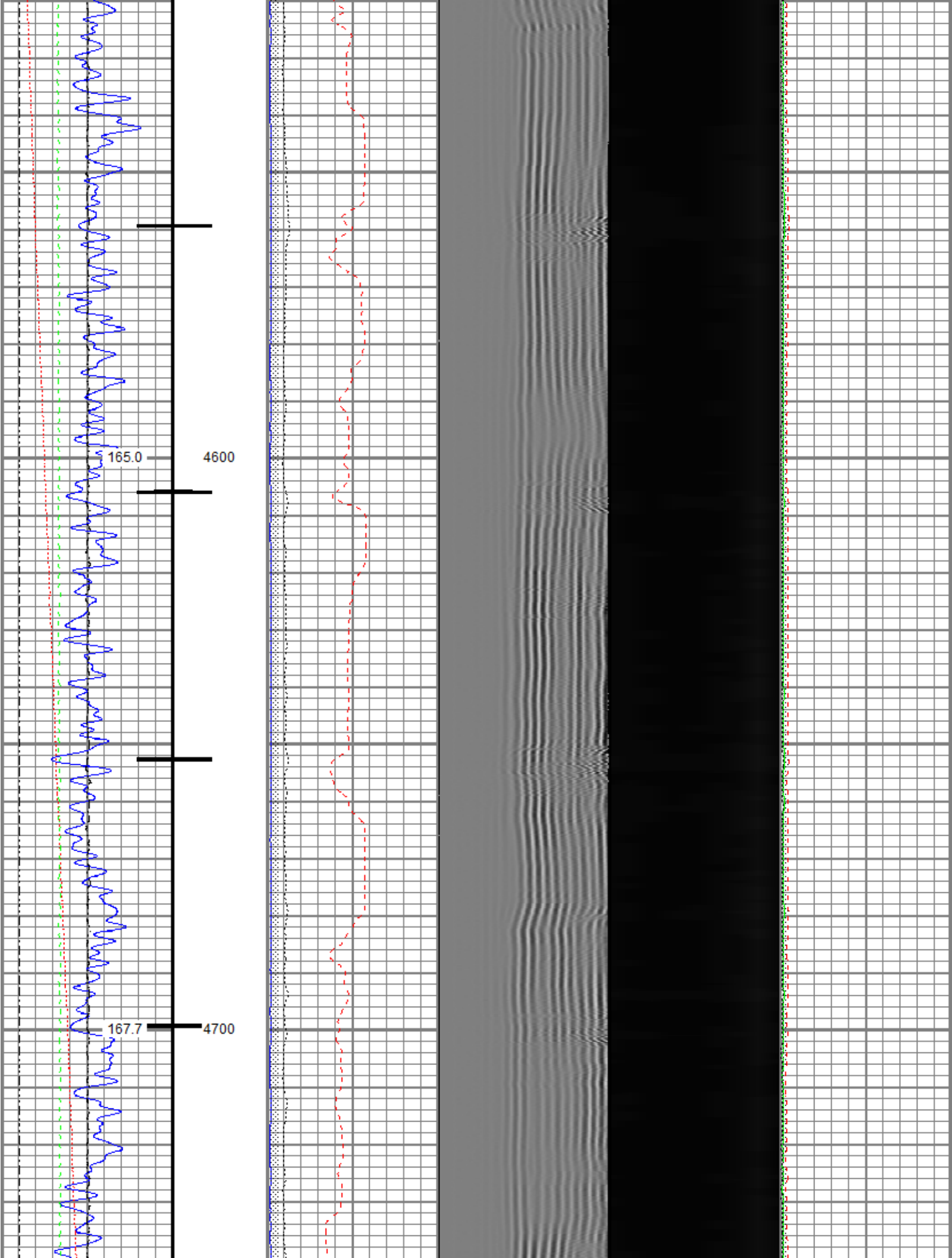


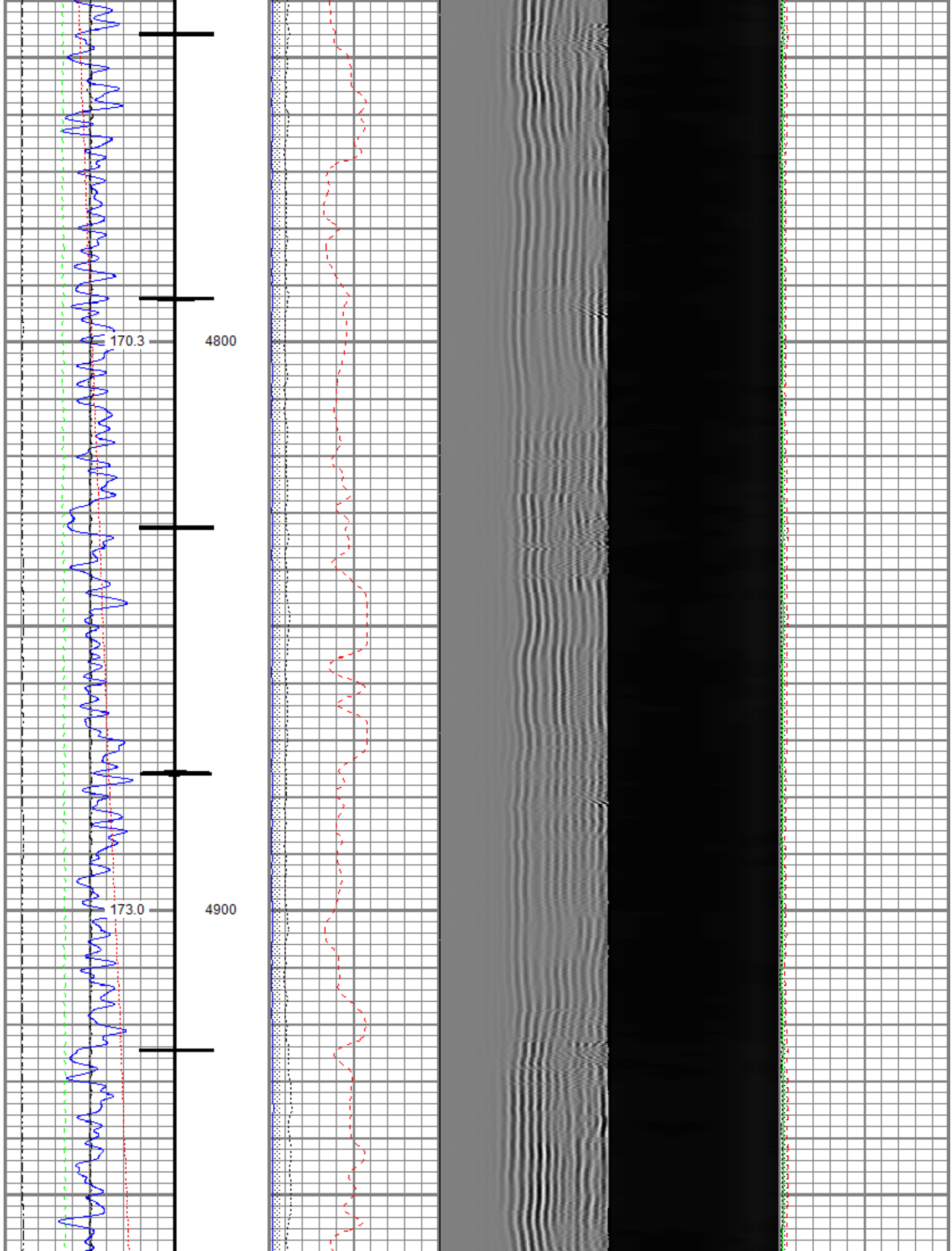


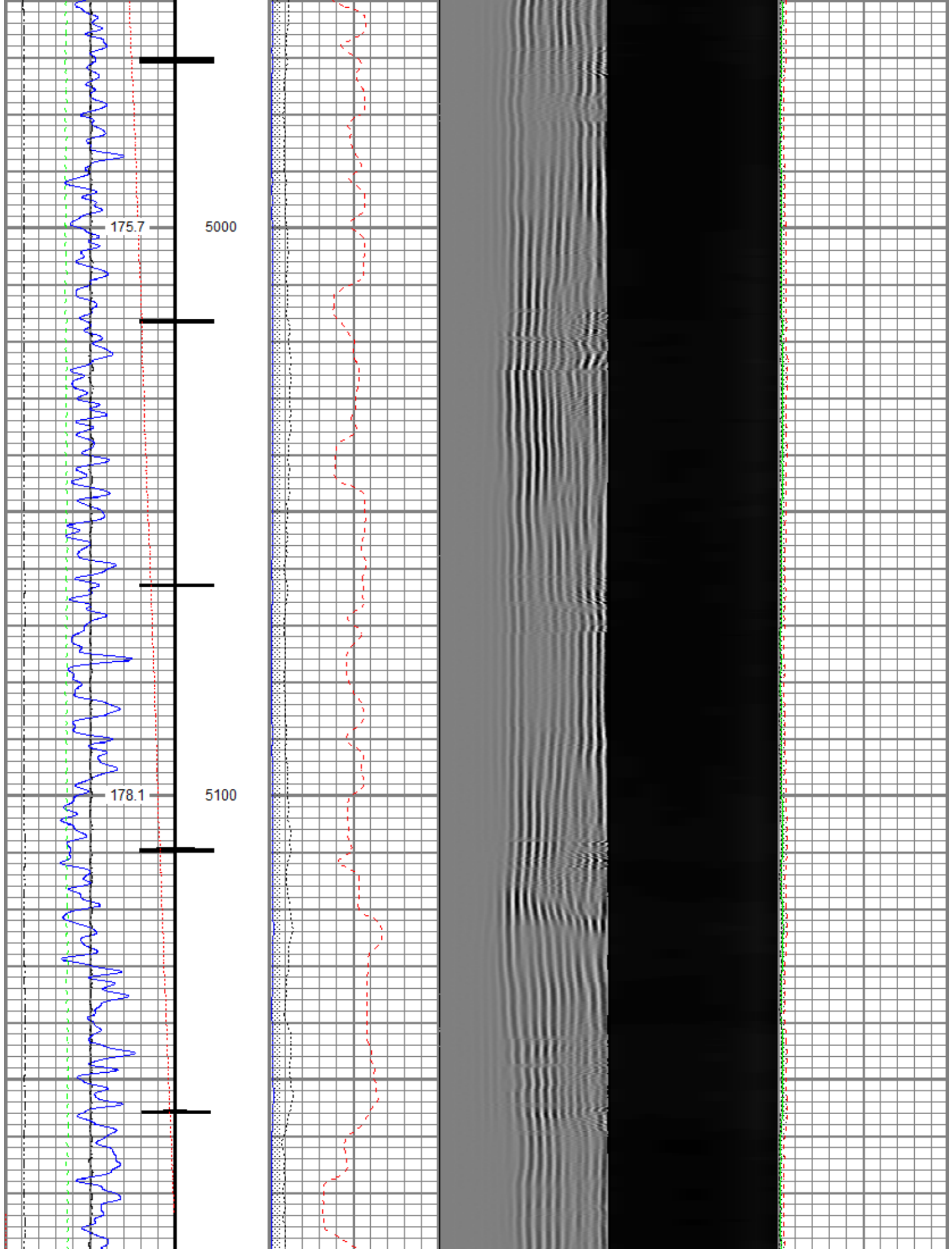


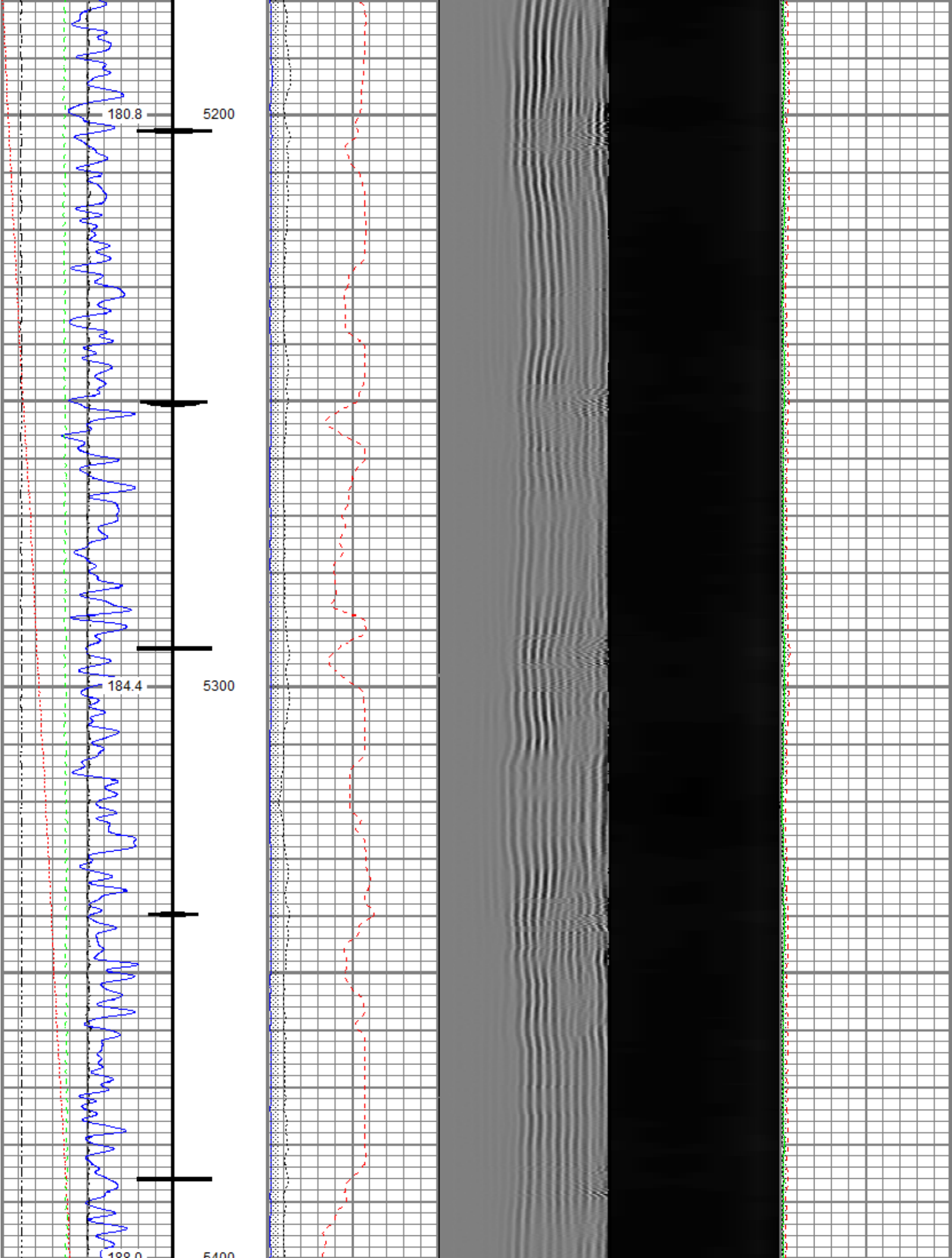


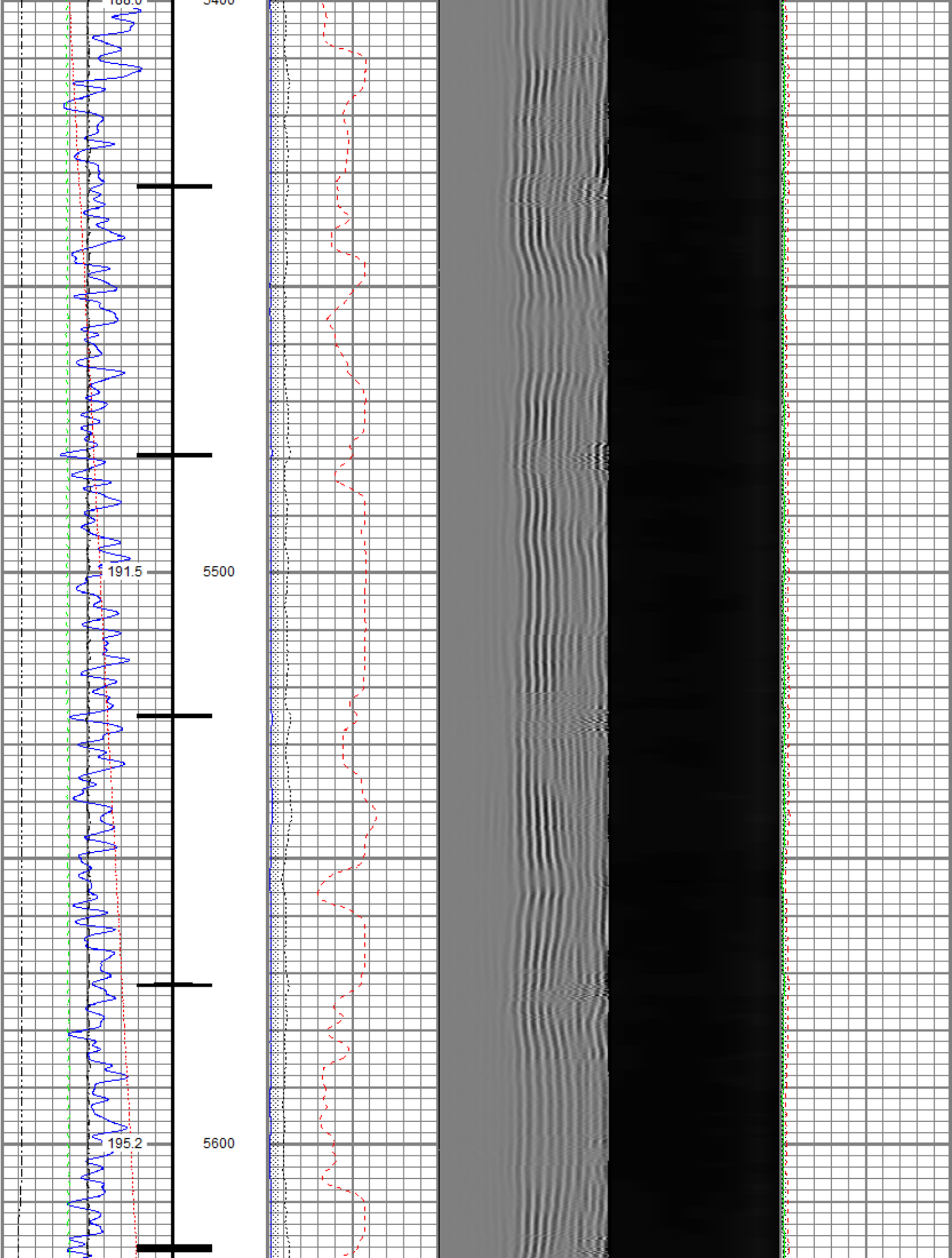


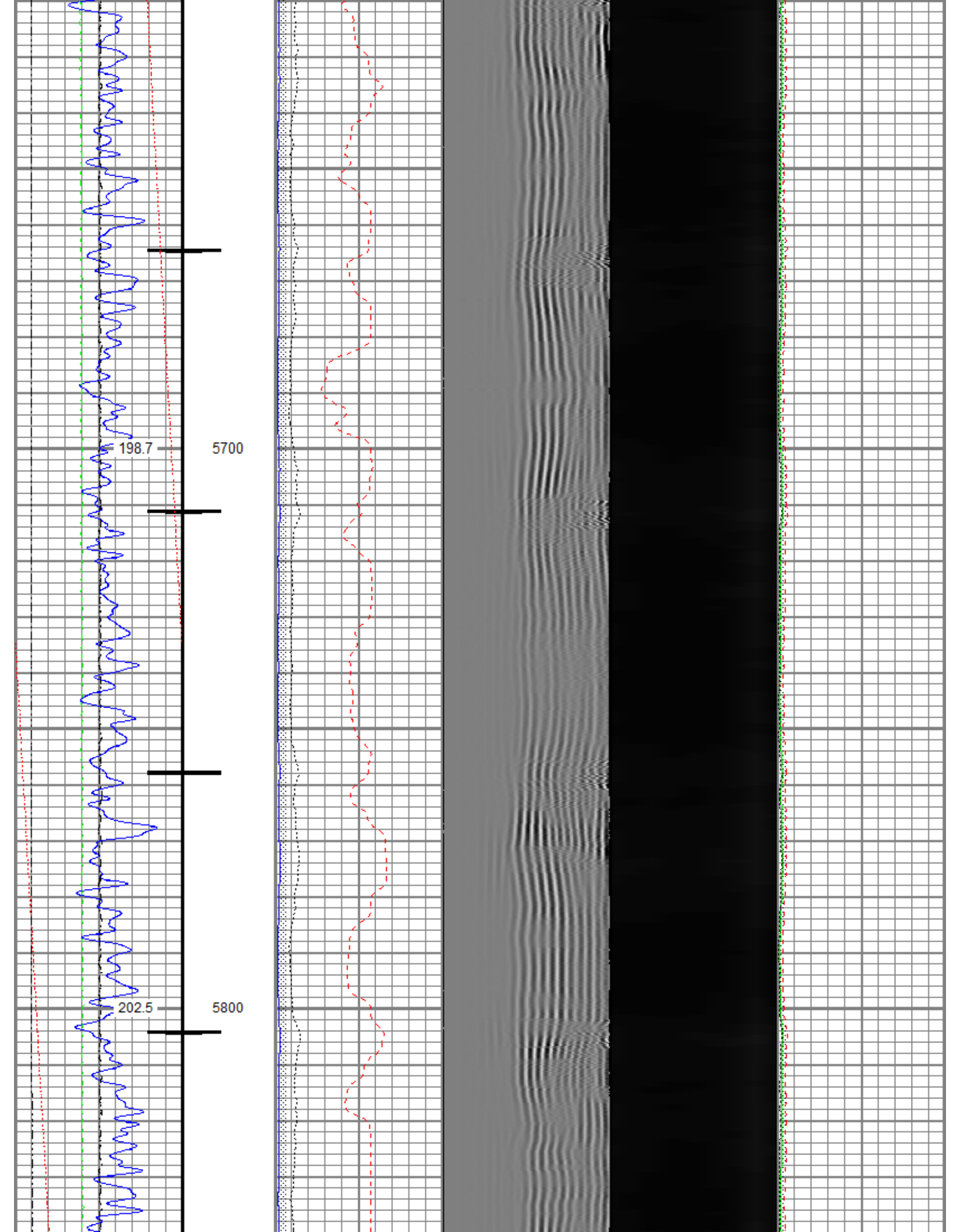


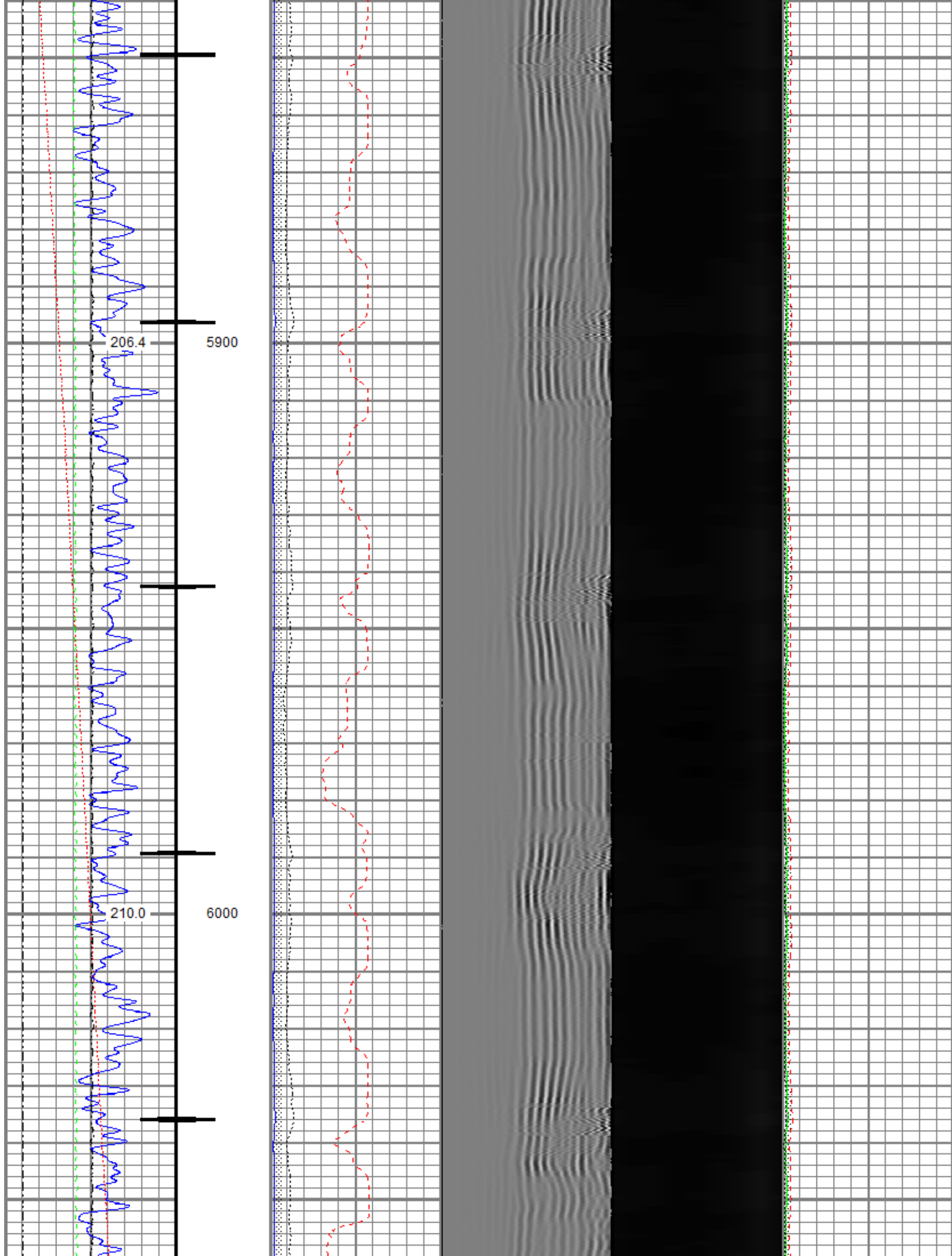


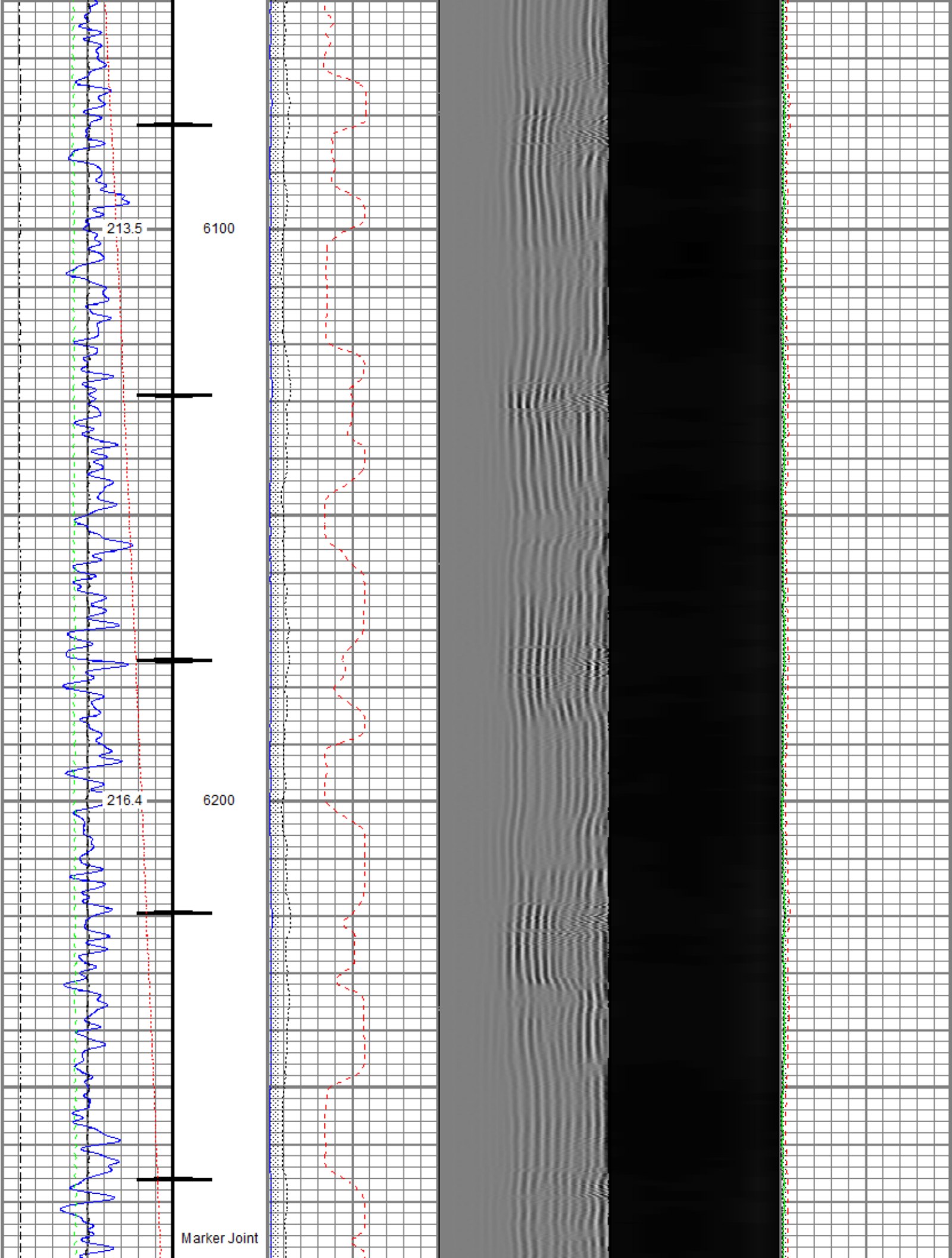


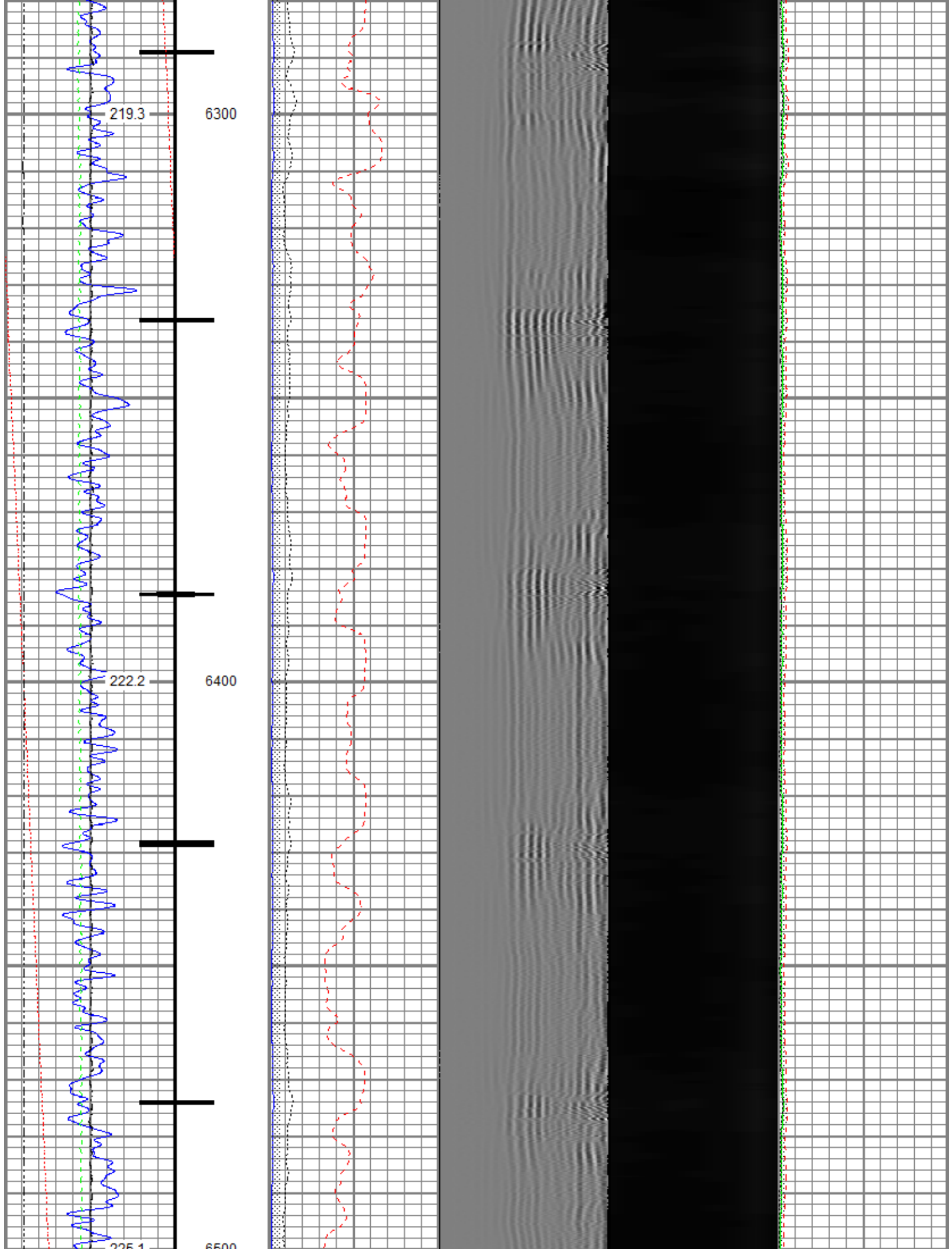


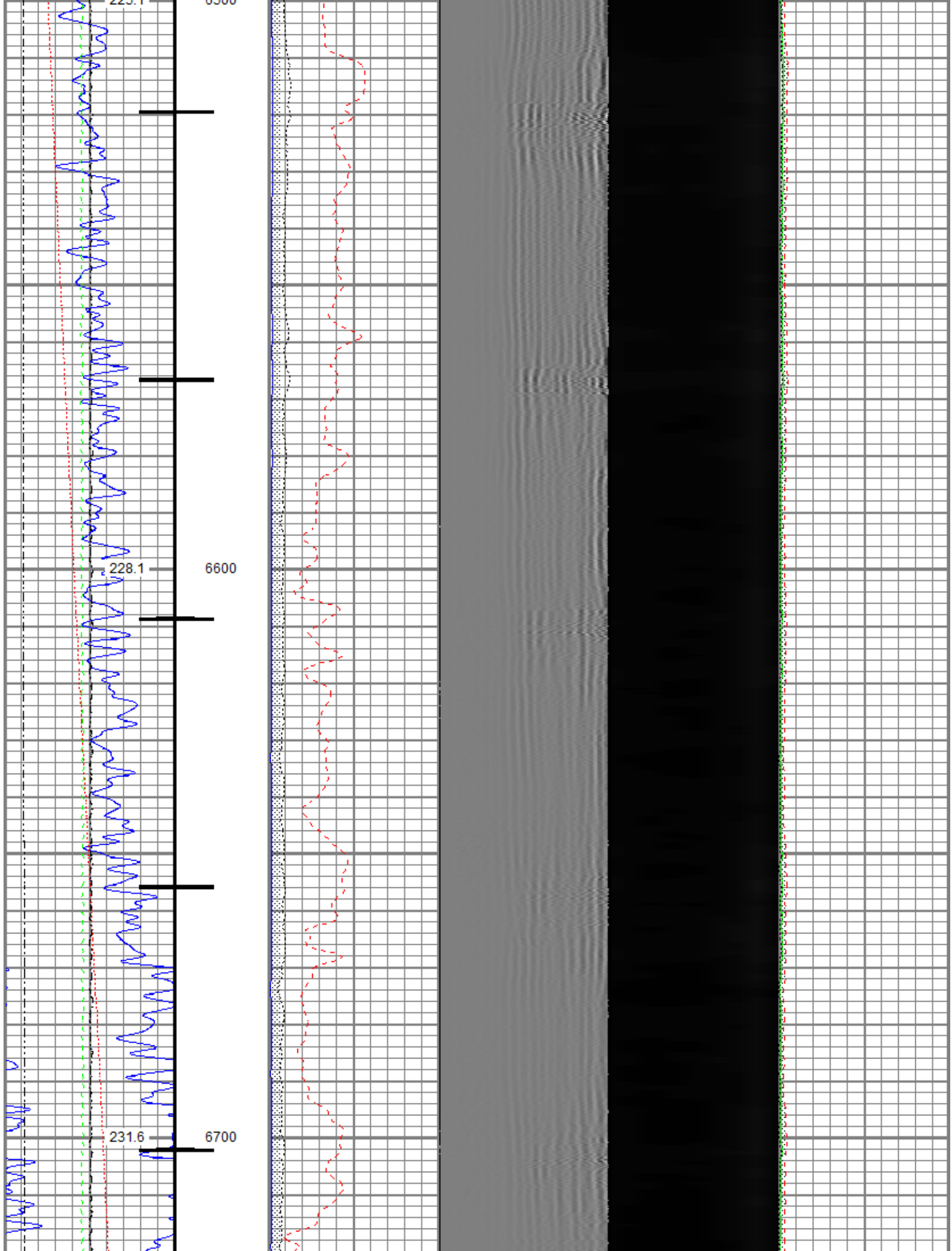


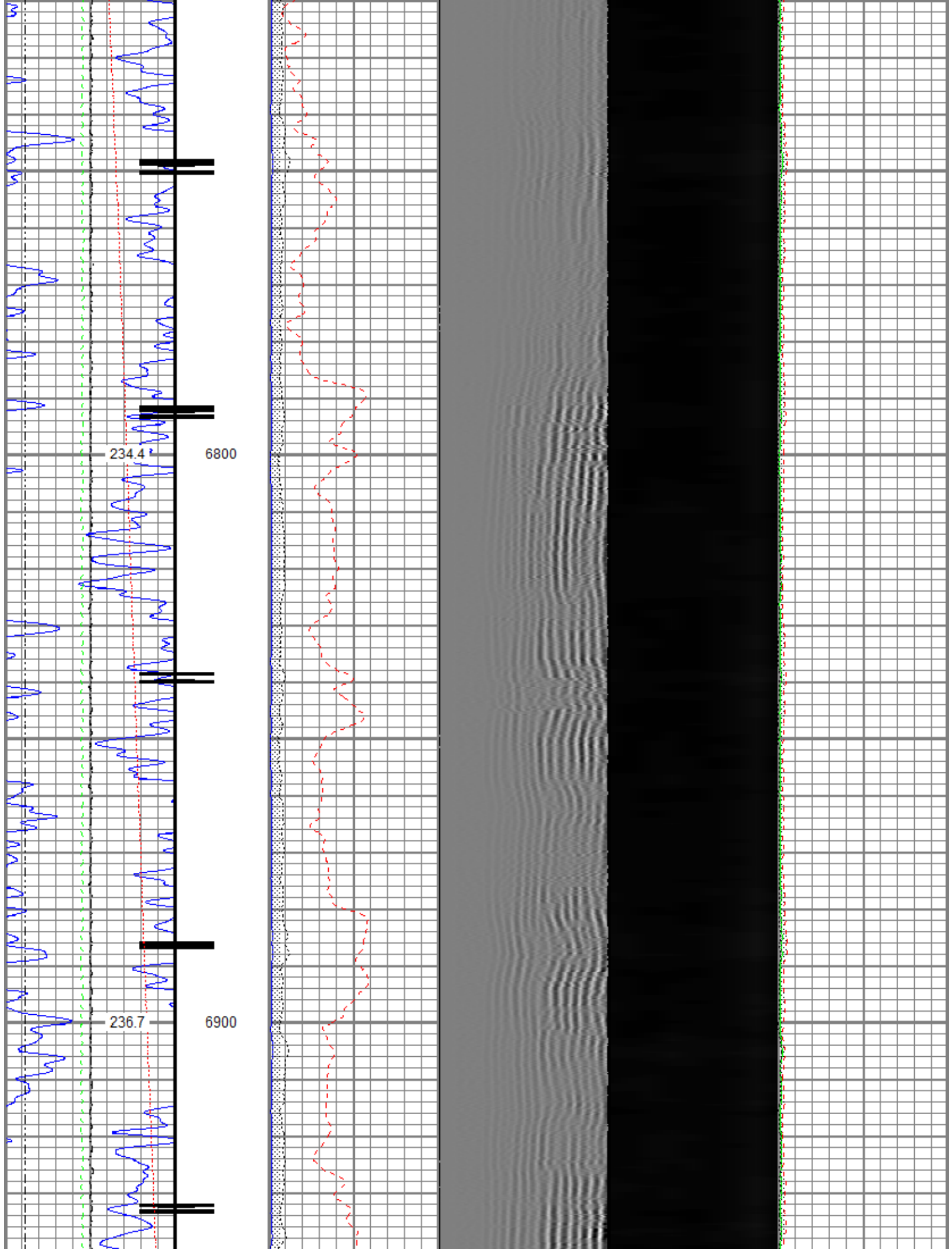


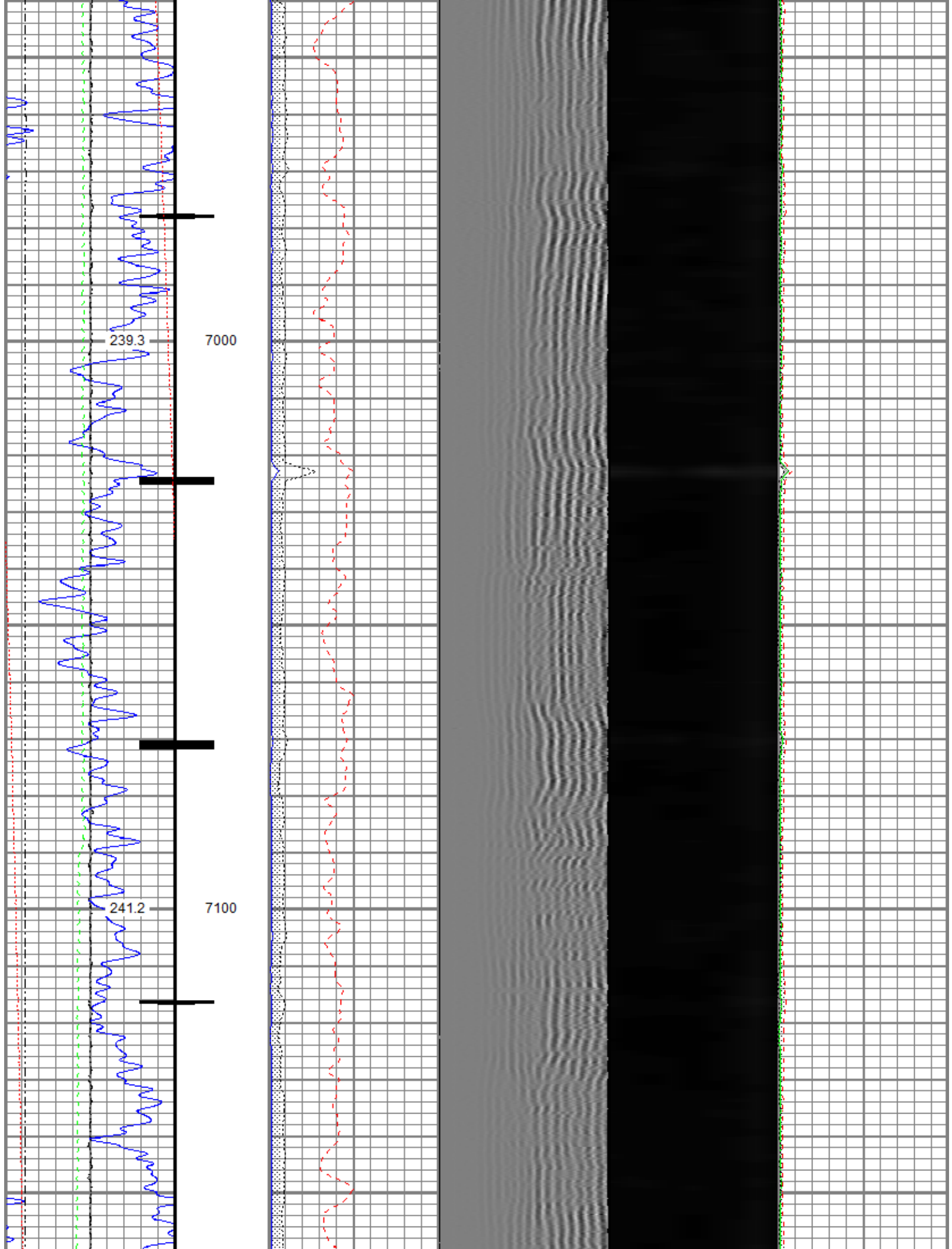


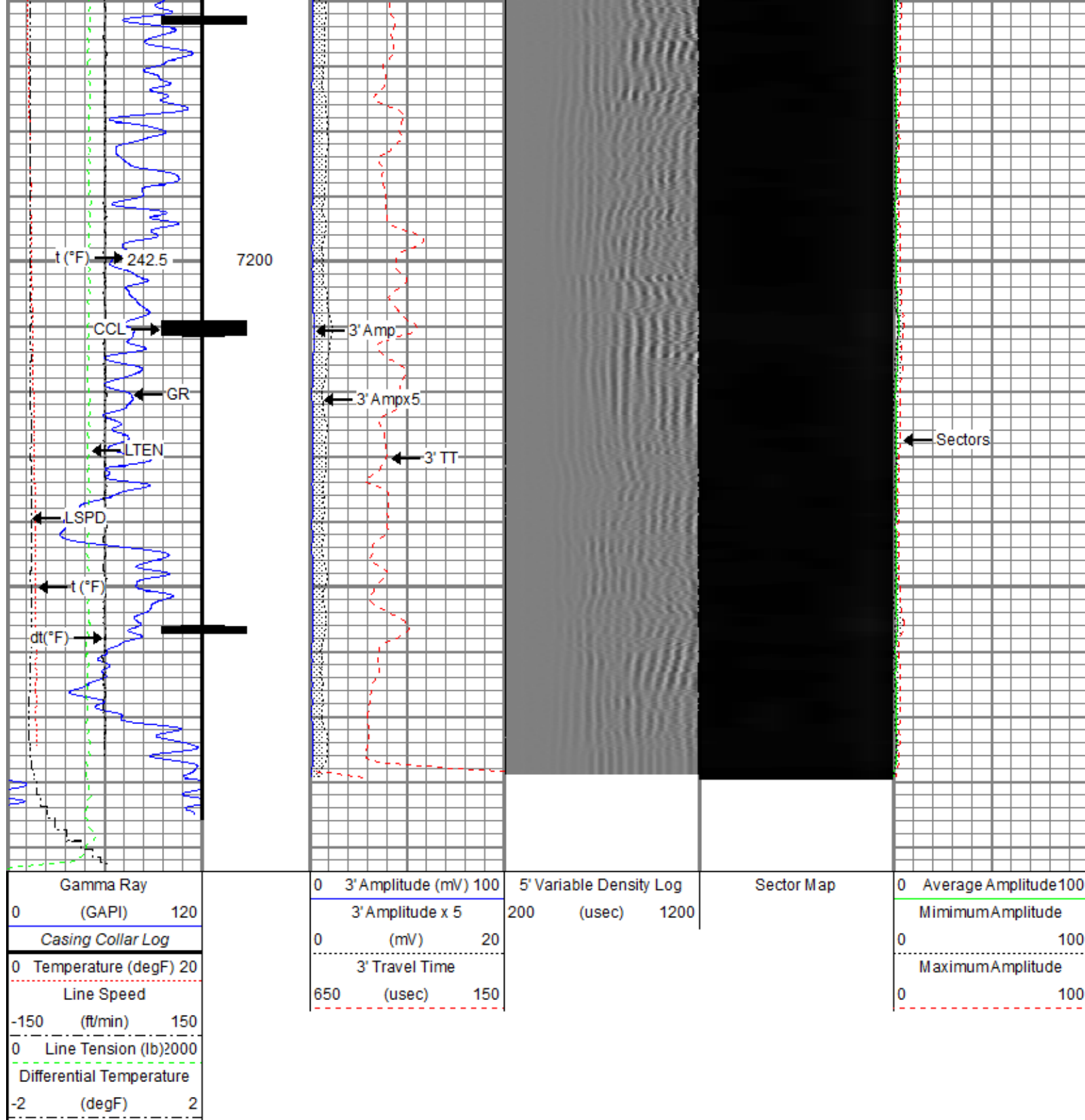










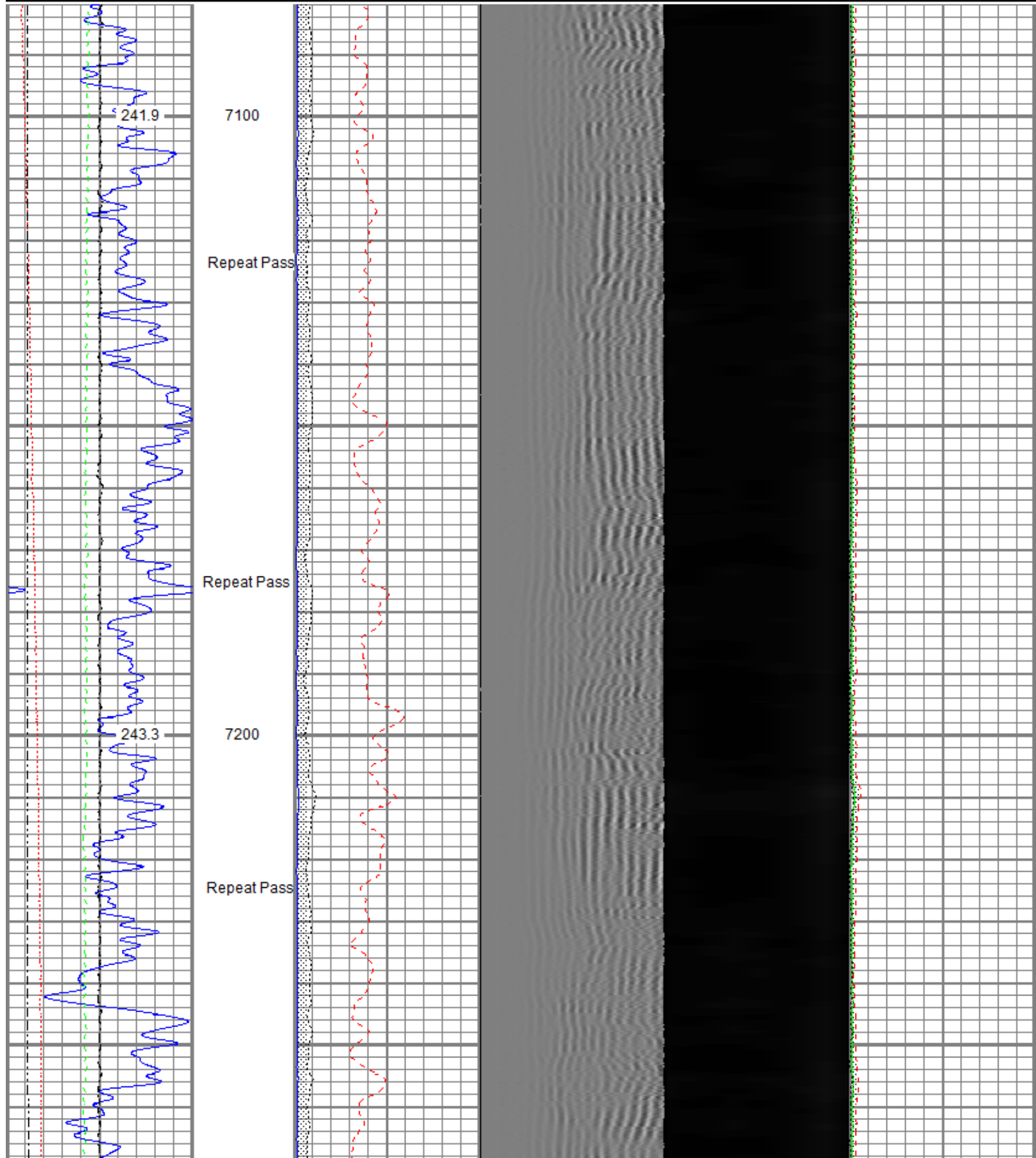


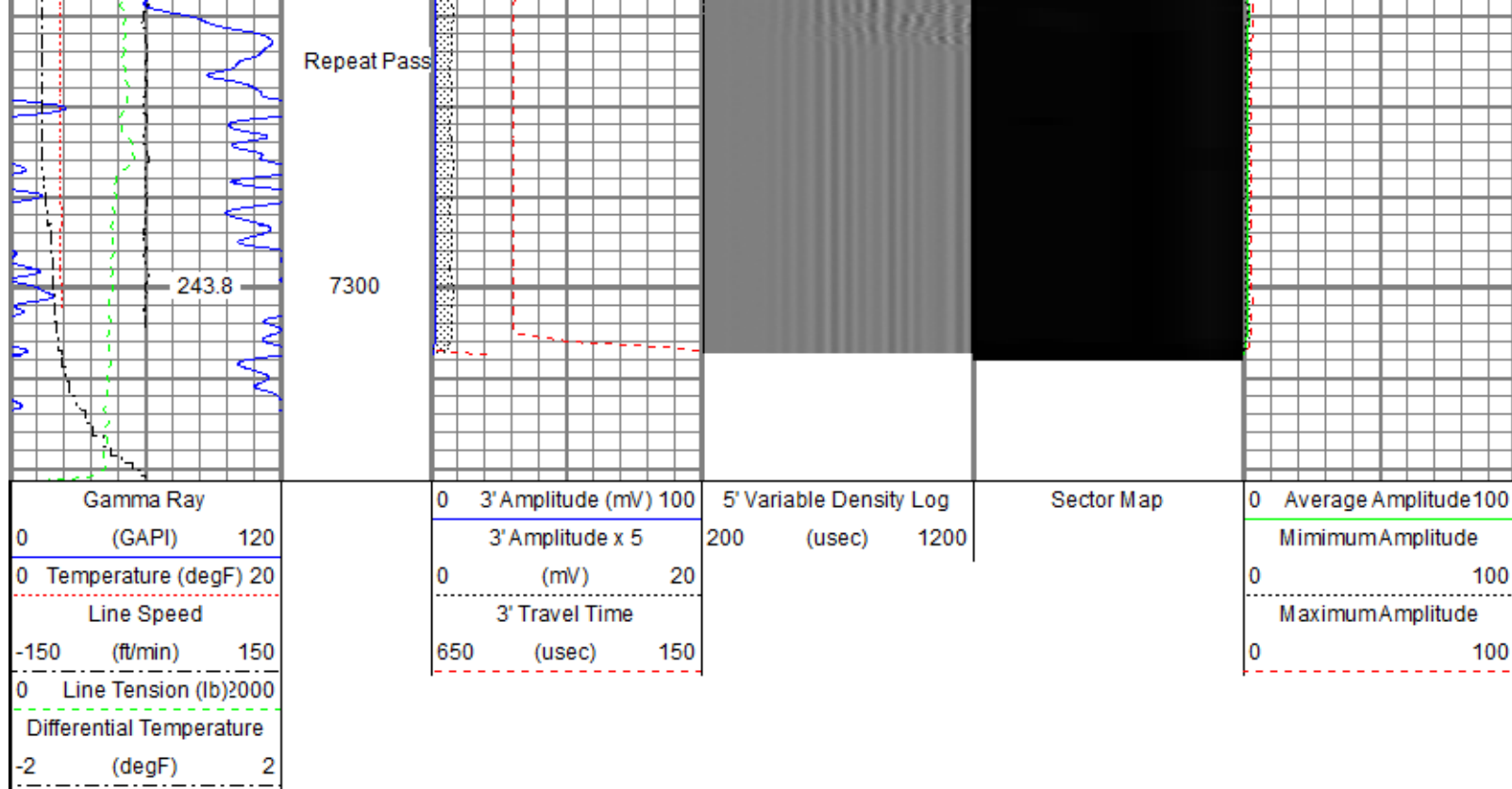
Repeat Pass

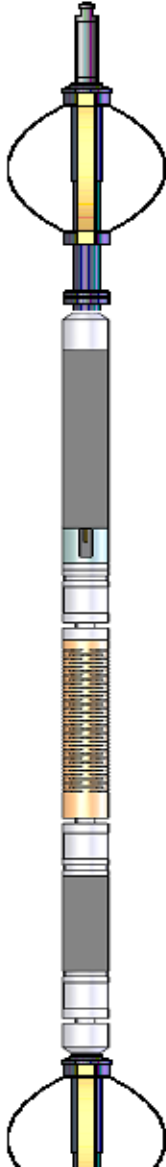
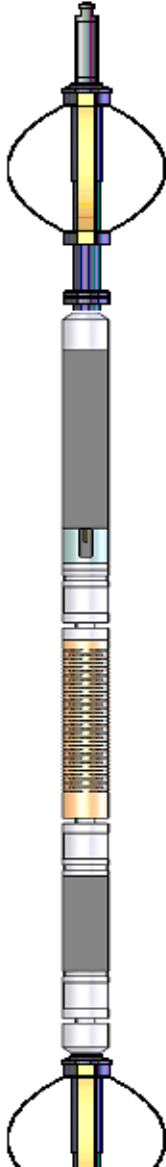
Recorded With 2500 PSI Surface Induced Pressure

Database File noble\noble_reveille a34-725_rbl_02-06-21\noble_reveille a34-725_rbl_02-06-21.db
 Dataset Pathname repeat/pass1.5
 Presentation Format ros_radri_noble
 Dataset Creation Sun Feb 07 14:28:12 2021
 Charted by Depth in Feet scaled 1:240

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





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	17.04		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
			Probe Radii-2750 RBT (120855)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS8	14.81					
WVFS7	14.81					
WVFS6	14.81					
WVFS5	14.81					
WVFS4	14.81					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
			Probe CENT 2750	2.88	2.75	20.00

			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46		Probe GR-CCL-2750 6PB (FW1810-044) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
LOCTIM	0.00					
UTCTIM	0.00					
Dataset: Noble_Reveille A34-725_RBL_02-06-21.db: field/well/main/pass1.2 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report						
Database File	C:\ProgramData\Warrior\Data\Noble\Noble_Reveille A34-725_RBL_02-06-21\Noble_Reveille A34-725_RBL_02-06-21.db					
Dataset Pathname	main/pass1.2					
Dataset Creation	Sat Feb 06 15:02:00 2021					
Gamma Ray Calibration Report						
Serial Number:	FW1810-044					
Tool Model:	2750 6PB					
Performed:	Tue Dec 03 09:24:53 2019					
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:	120855					
Tool Model:	2750 RBT					
Calibration Casing Diameter:	5.500	in				
Calibration Depth:	-17.525	ft				
Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.605	0.800	71.921	117.517	0.785
CAL	0.655	0.642				
5'	0.000	0.587	0.800	71.921	121.189	0.776
SUM						
S1	0.000	0.615	0.000	100.000	162.520	-0.028
S2	0.000	0.645	0.000	100.000	155.086	-0.027
S3	-0.000	0.644	0.000	100.000	155.356	0.027

S4	-0.002	0.634	0.000	100.000	157.310	0.286
S5	-0.002	0.603	0.000	100.000	165.474	0.284
S6	0.000	0.575	0.000	100.000	173.823	-0.035
S7	0.000	0.564	0.000	100.000	177.269	-0.035
S8	-0.008	0.571	0.000	100.000	172.946	1.314

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.655	0.642	1.000	0.000

Air Zero Calibration, performed Sat Feb 06 12:47:13 2021:

	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	

Temperature Calibration Report

Serial Number: 120855
 Tool Model: 2750 RBT
 Performed: Wed Dec 18 13:34:18 2019

	Reference	Reading
Low Reference:	100.00 degF	112.30 degF
High Reference:	350.00 degF	394.75 degF

Gain: 0.89
 Offset: 0.60
 Delta Spacing: 1



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