



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Noble Energy Inc
Well Reveille A35-750
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-50801
SEC 35 TWP 6N RGE 64W
Permanent Datum Ground Level Elevation 4647'
Log Measured From Kelly Bushing 30 FT
Drilling Measured From Kelly Bushing
Other Services ---
Elevation
K.B. 4677'
D.F. ---
G.L. 4647'

Company Noble Energy Inc
Well Reveille A35-750
Field Wattenberg
County Weld
State Colorado

Date	07-FEB-2021									
Run Number	One									
Depth Driller	17381 FT									
Depth Logger	7393 FT									
Bottom Logged Interval	7378 FT									
Top Log Interval	Surface									
Open Hole Size	8.5"									
Type Fluid	Water									
Density / Viscosity	8.34 lb/gal									
Max. Recorded Temp.	235°F									
E. Estimated Cement Top	See Log									
Time Well Ready	ROA									
Time Logger on Bottom	14:24									
E. Equipment Number	HD-0325									
Location	Platteville, CO									
Recorded By	Matt Steinman									
Witnessed By	Sheldon Kelly									
Borehole Record										
Run Number	Bit	From	To	Size	Tubing Record					
					Weight	From	To			
Casing Record	Size (in)	Wgt (lbs/ft)	Grade	Top	Bottom					
Surface Casing	9 5/8	36	J-55	Surface	1933.9 FT					
Intermediate #1	5 1/2	17	P-110CY	Surface	17367.2 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 6474.1 FT
Adjusted -14 FT to correlate with Marker Joint
Log ran with 2200 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations
Thank you for choosing Reliance Oilfield Services, LLC!!

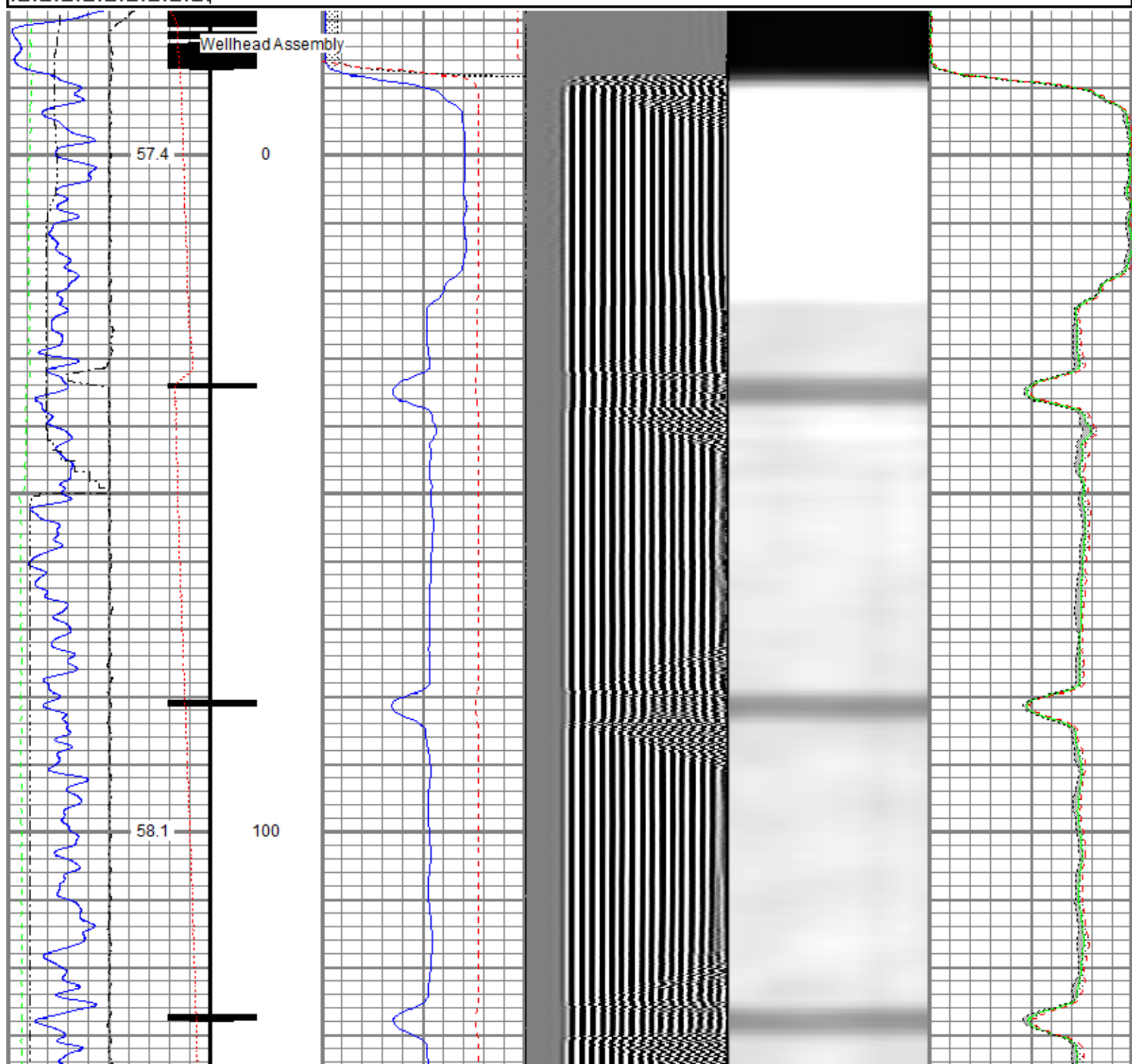
Main Pass

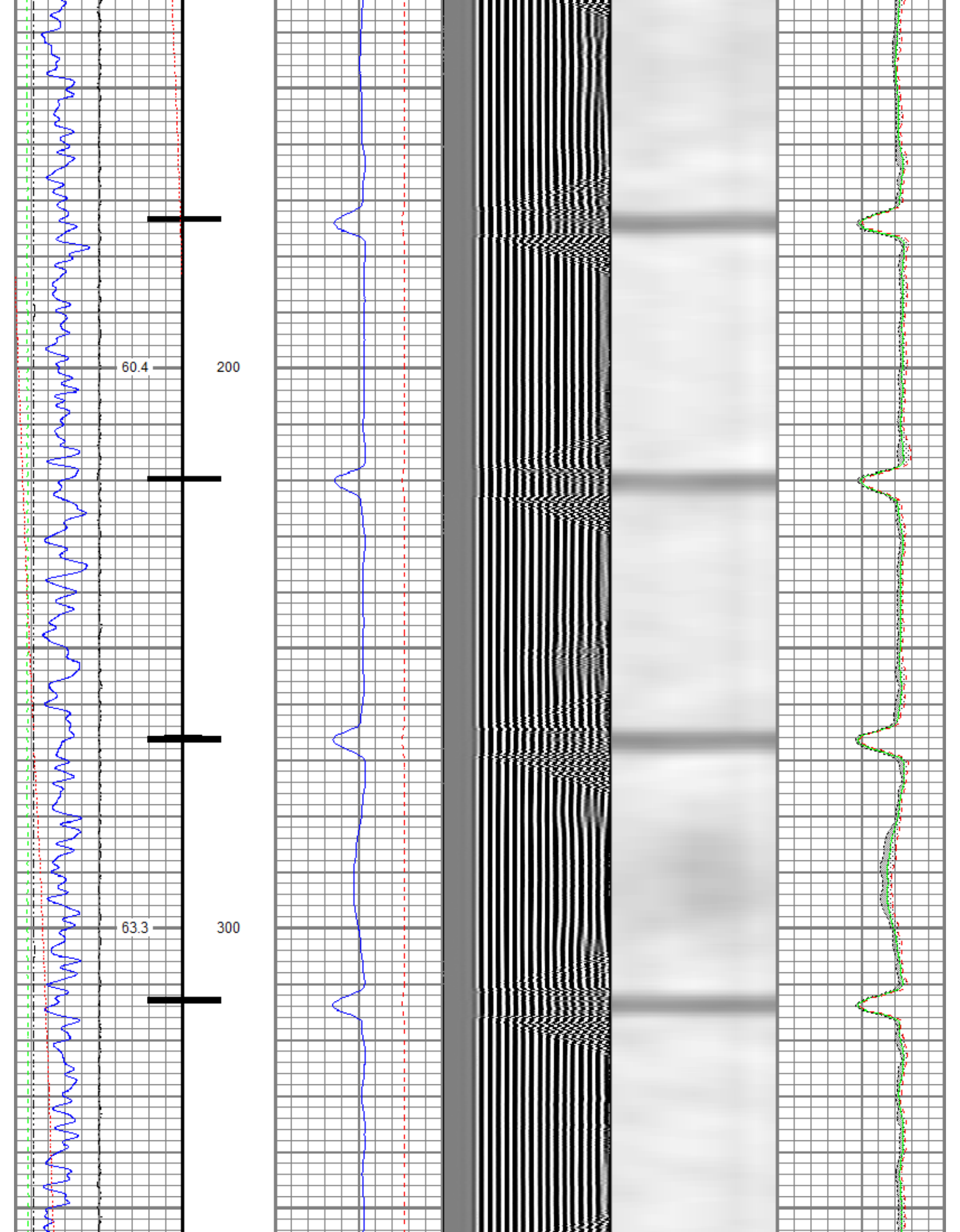


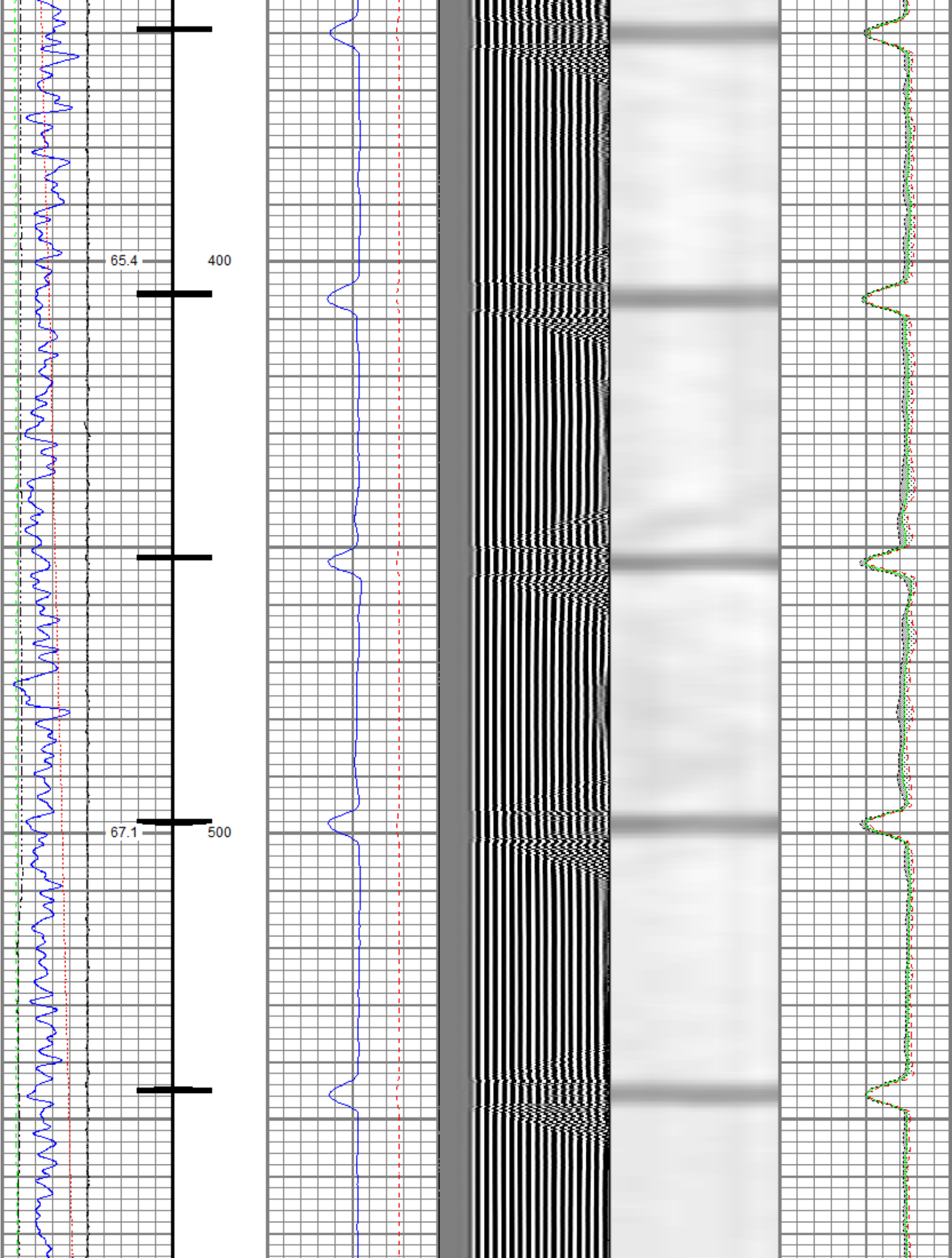
Recorded With 2200 PSI Surface Induced Pressure

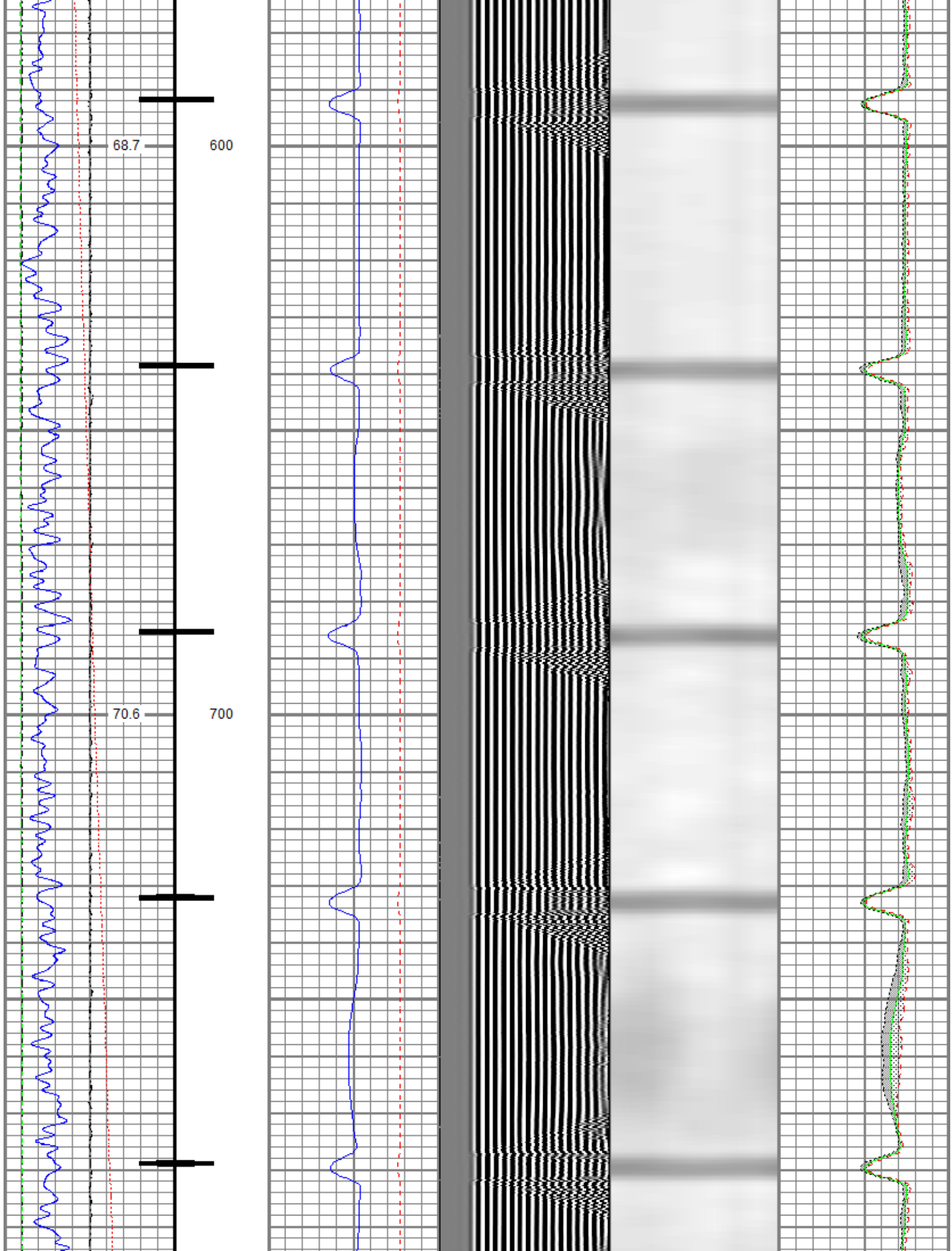
Database File noble\noble_reveille a35-750_rbl_02-07-21\noble_reveille a35-750_rbl_02-07-21.db
 Dataset Pathname main/pass1
 Presentation Format ros_radri_noble
 Dataset Creation Sun Feb 07 14:23:45 2021
 Charted by Depth in Feet scaled 1:240

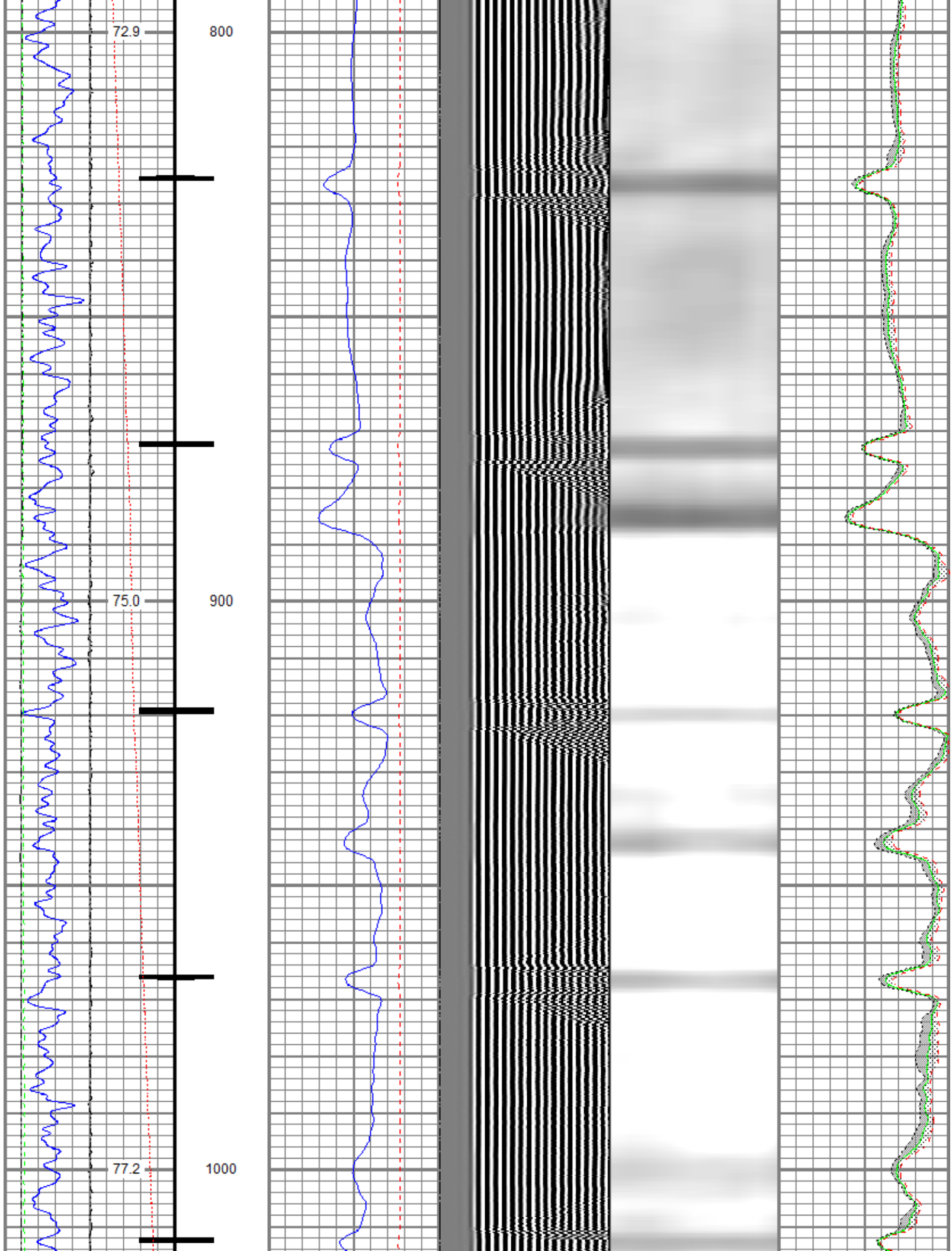
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Log	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

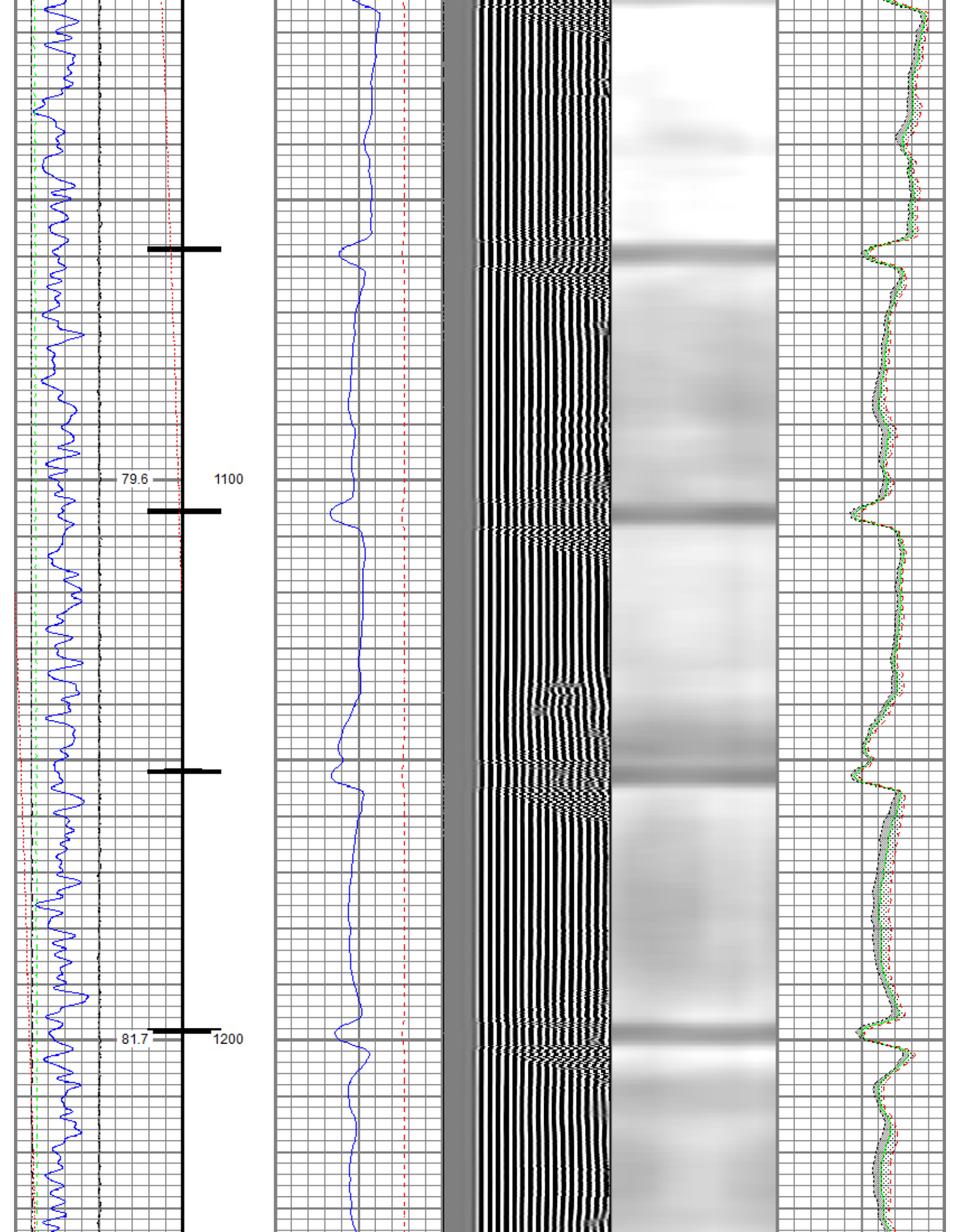


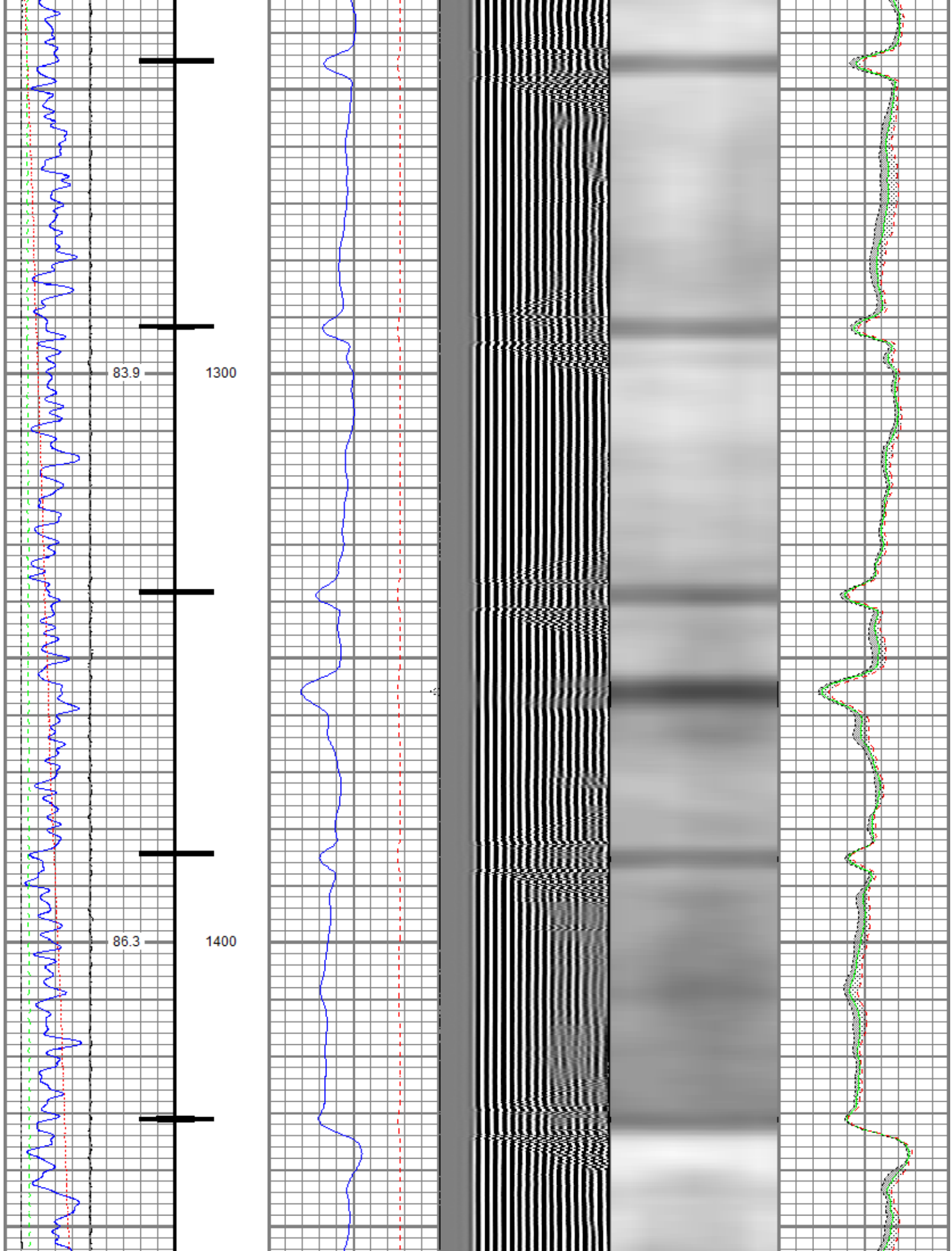


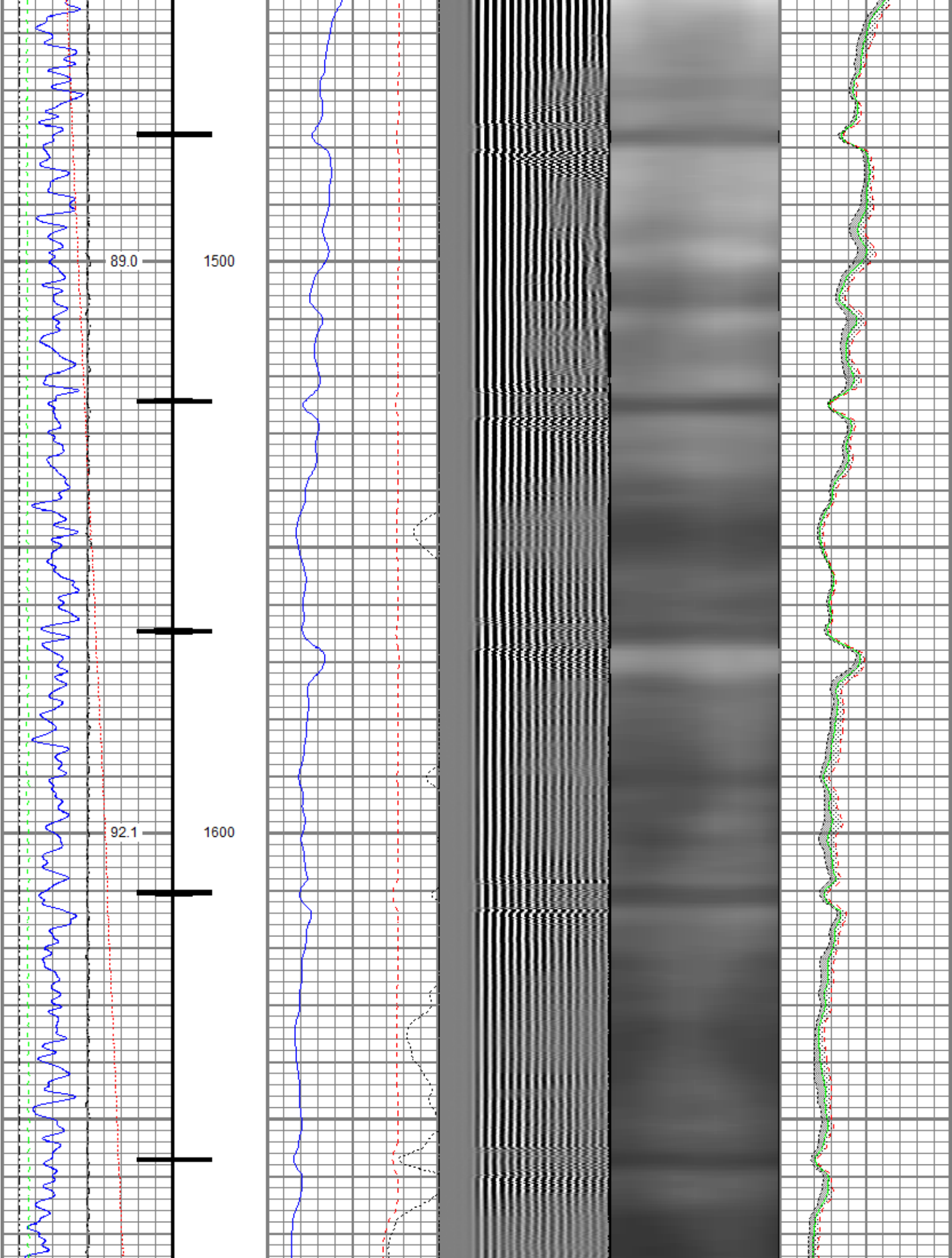


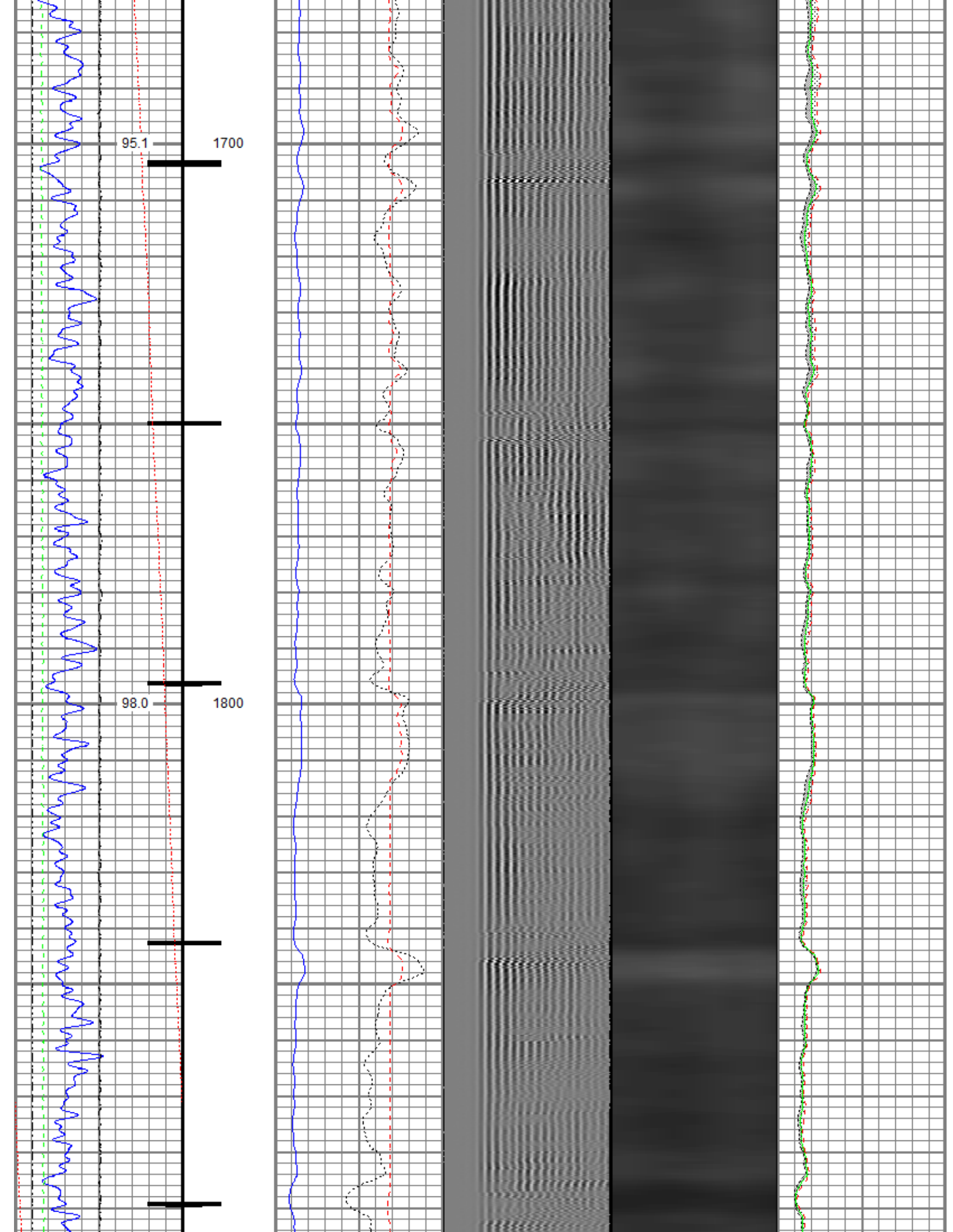


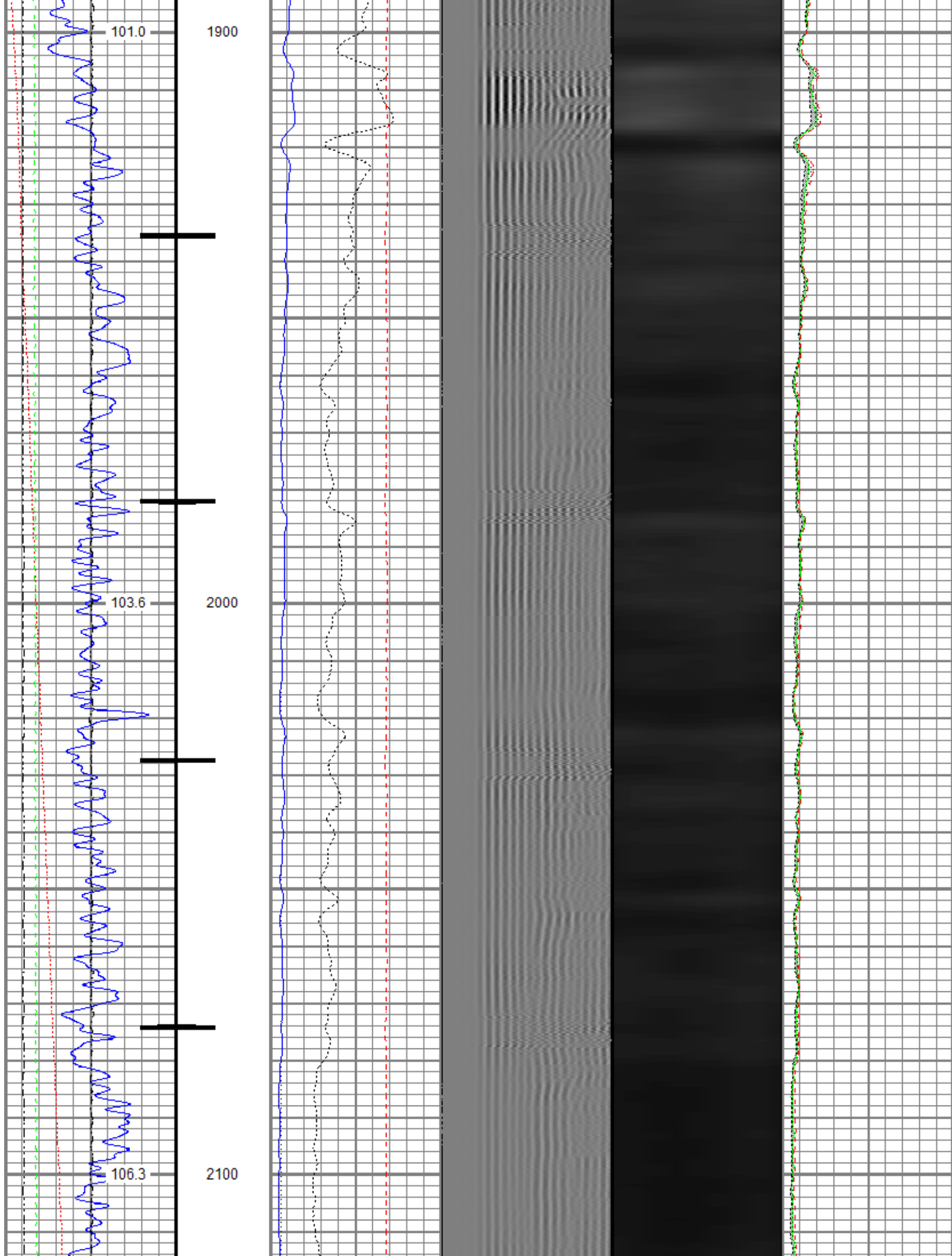


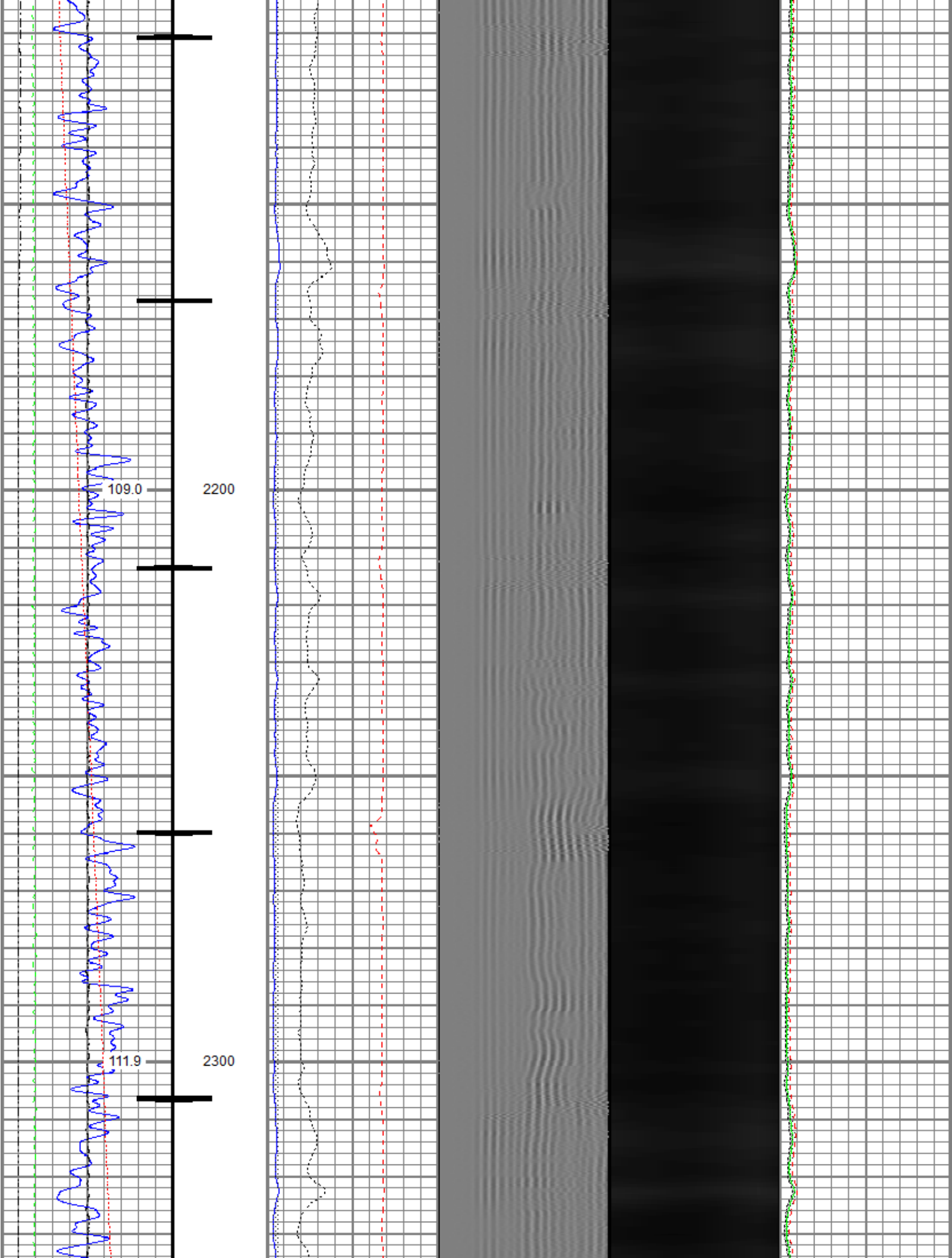


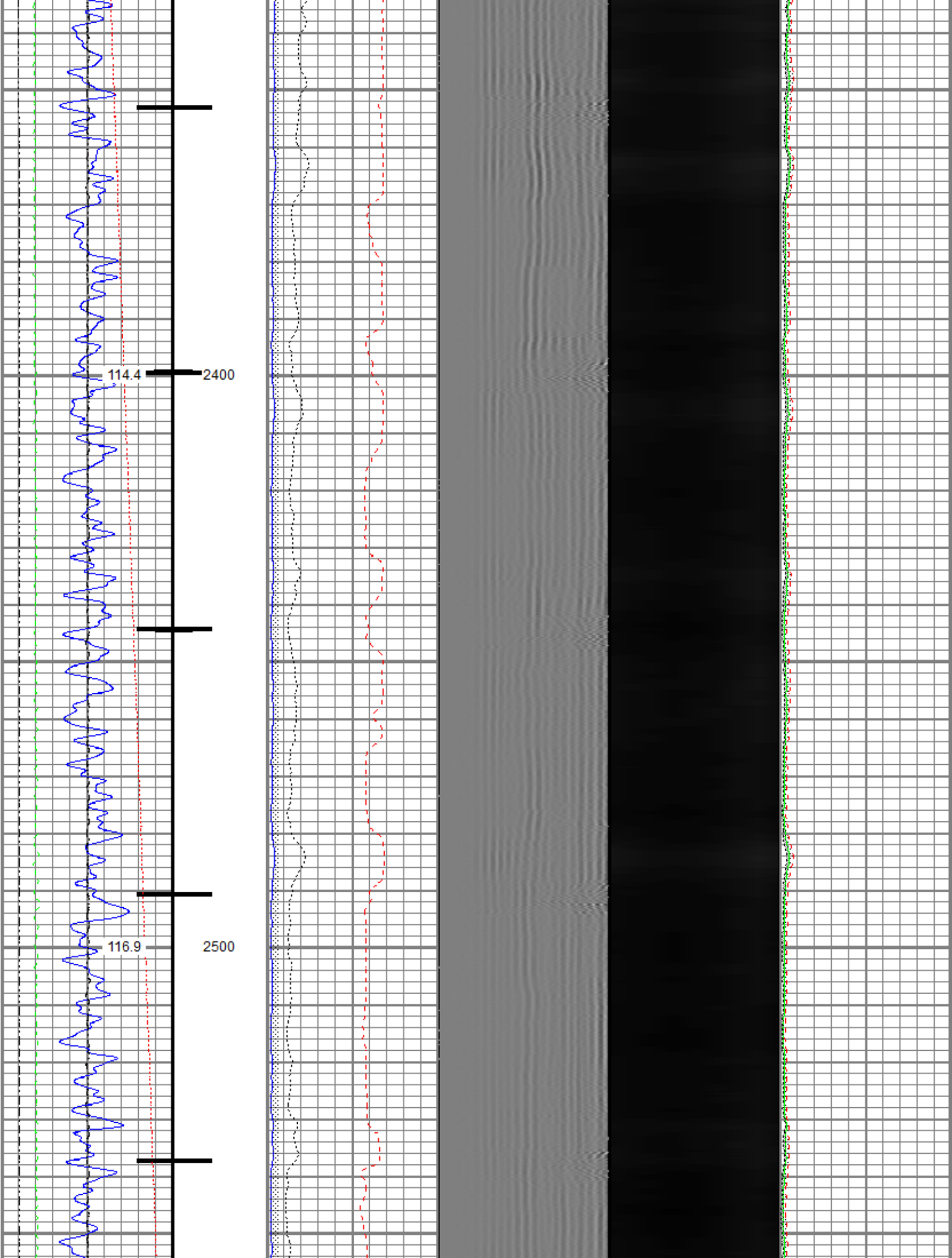


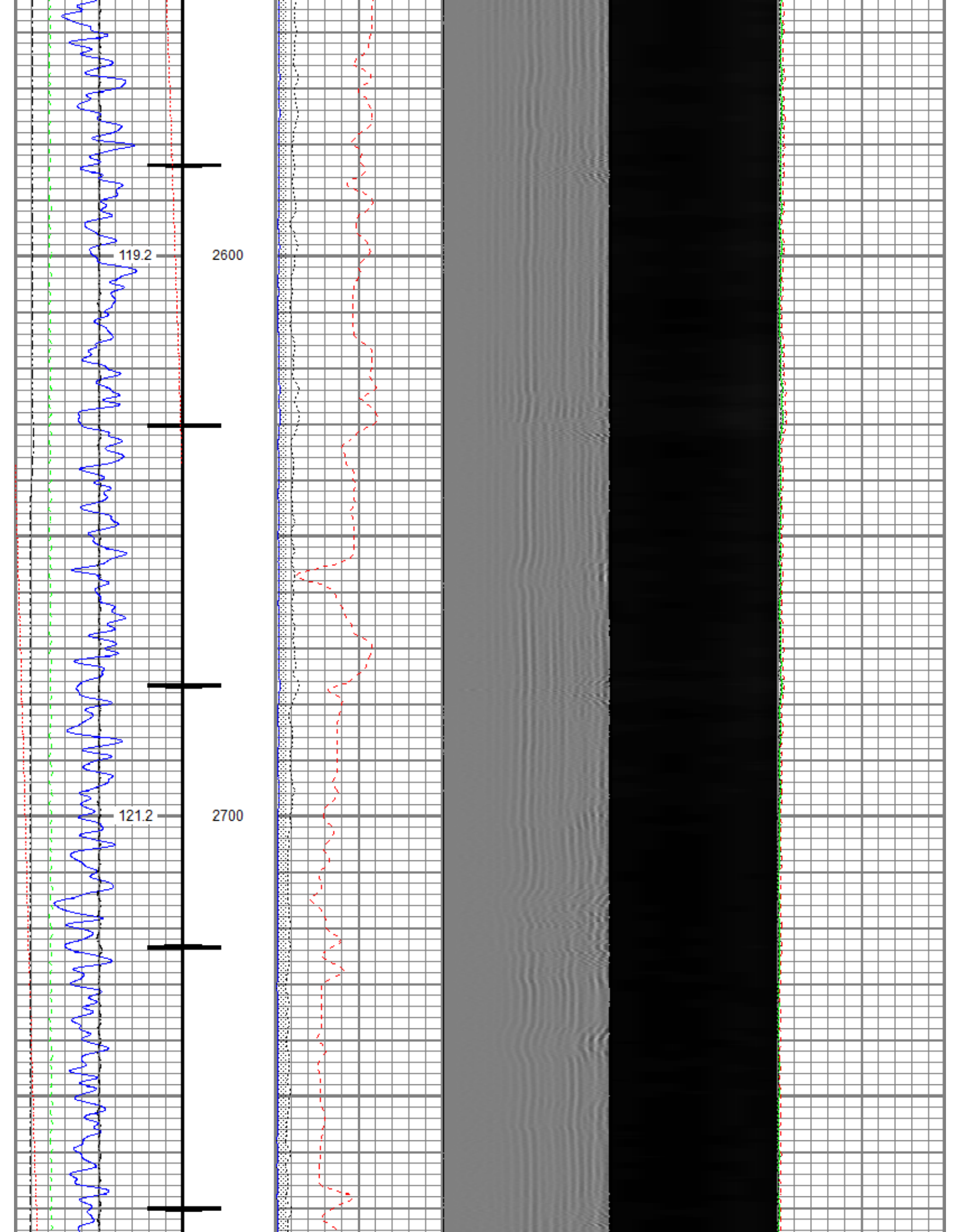










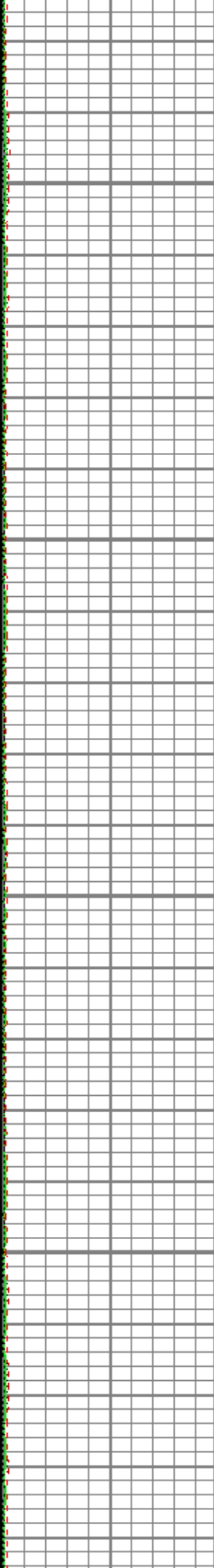
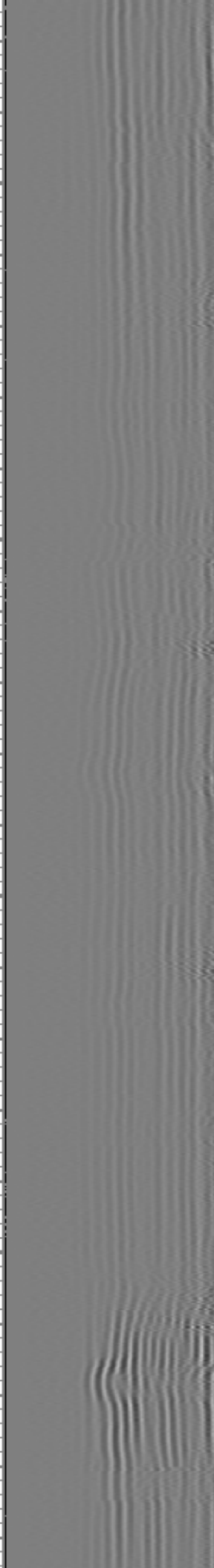
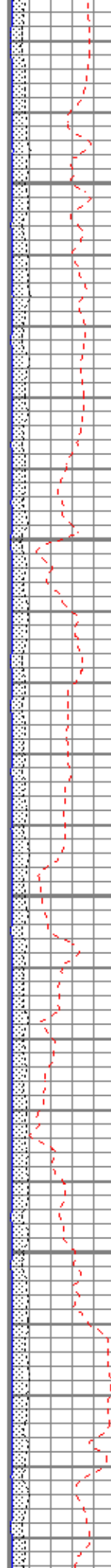


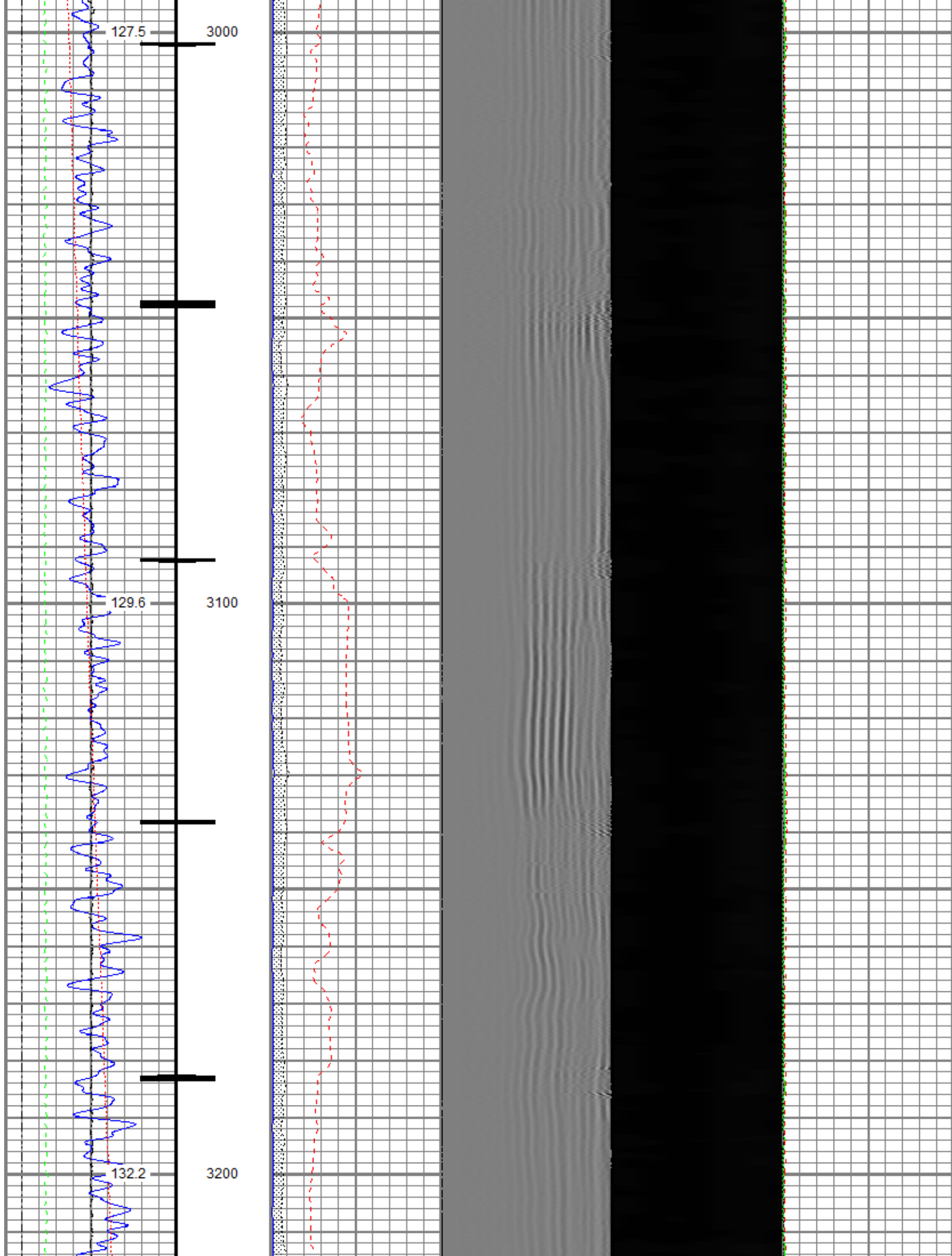
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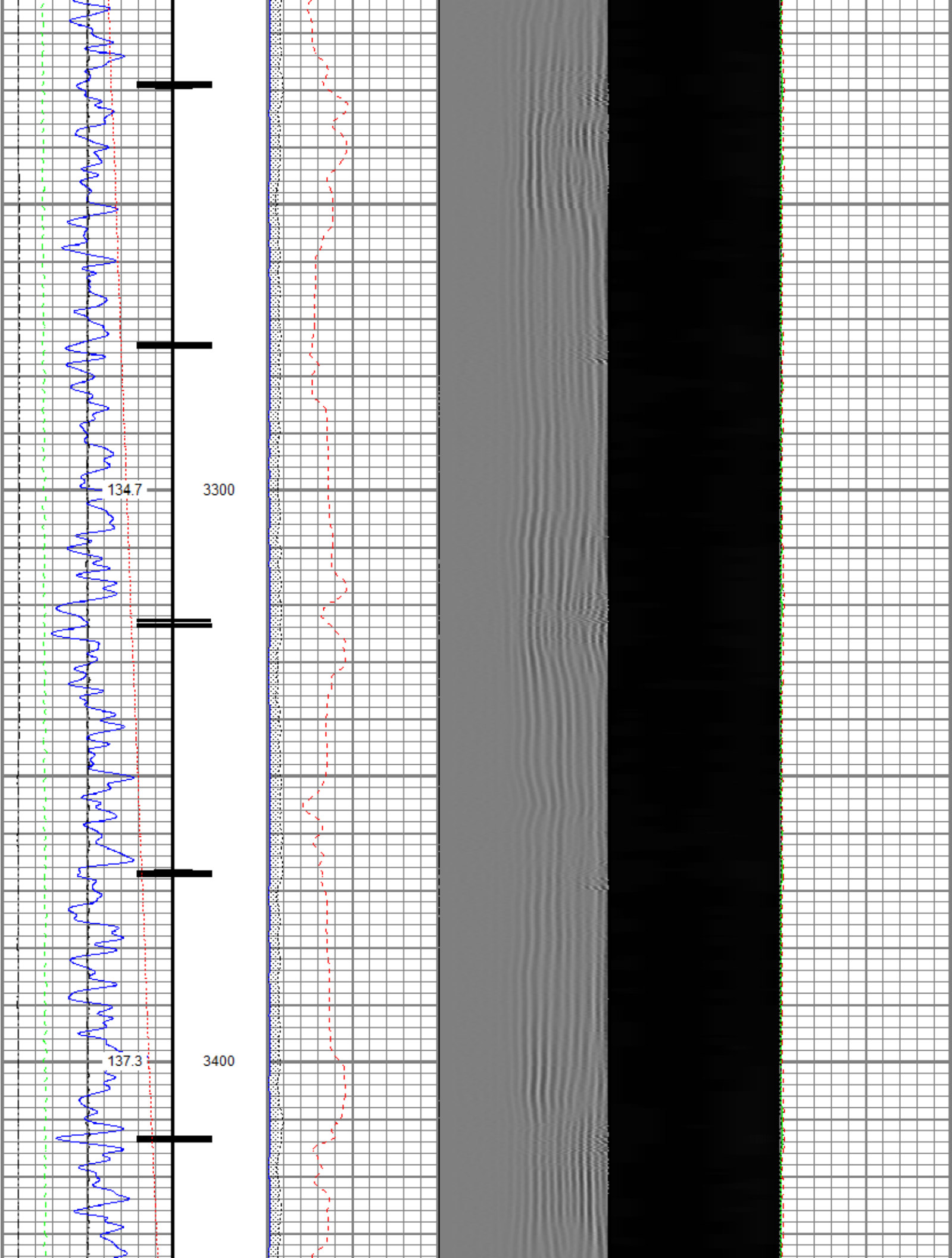
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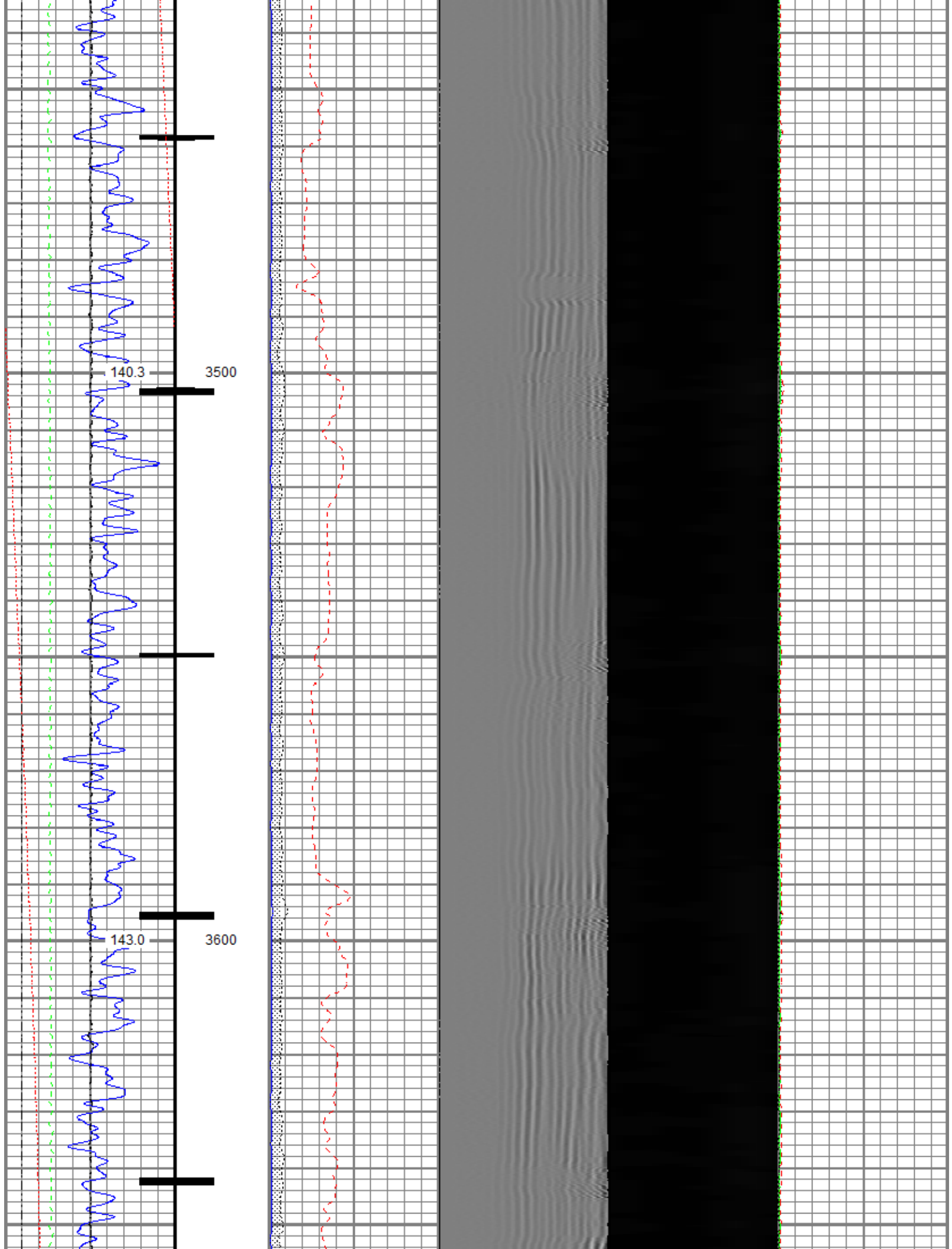
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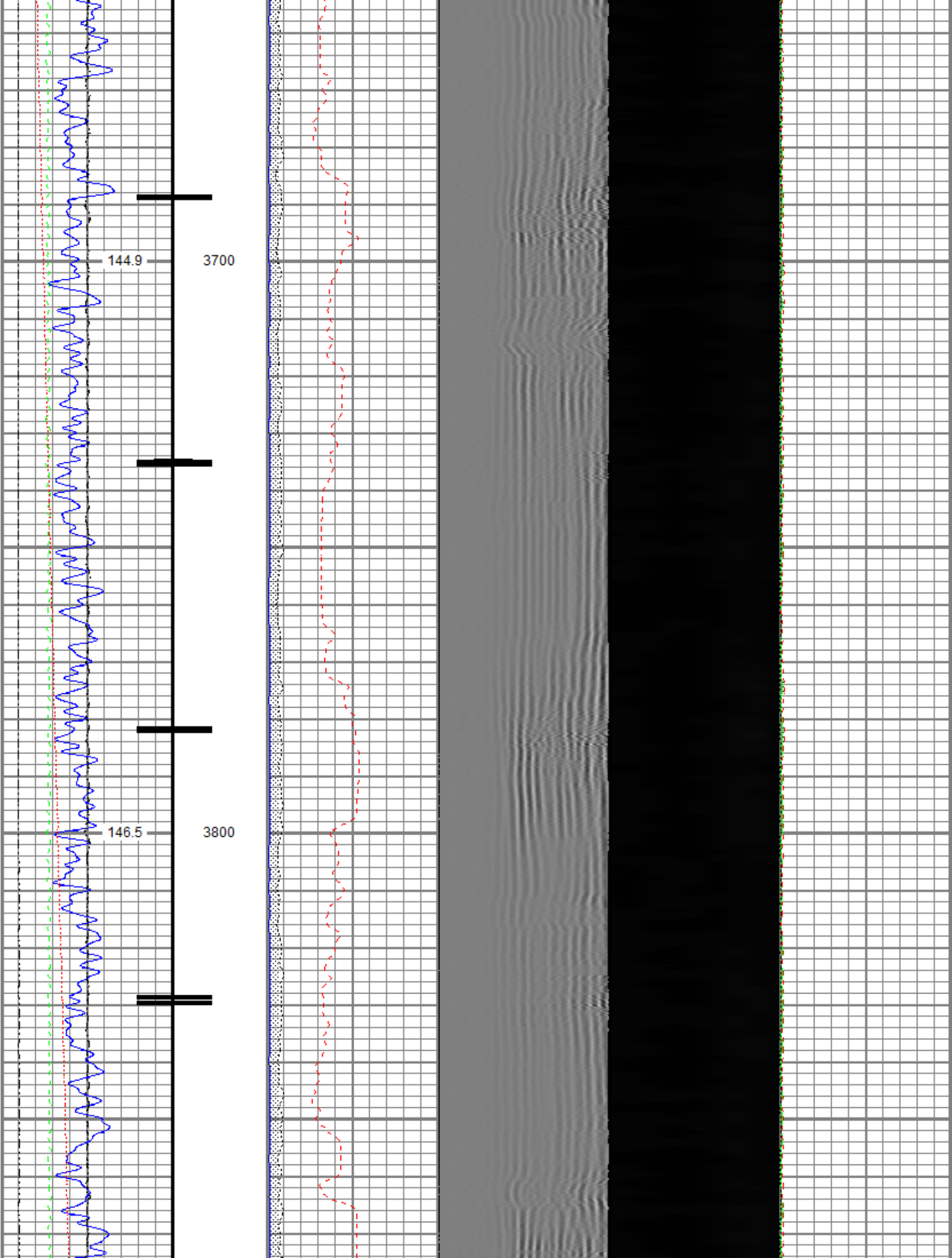
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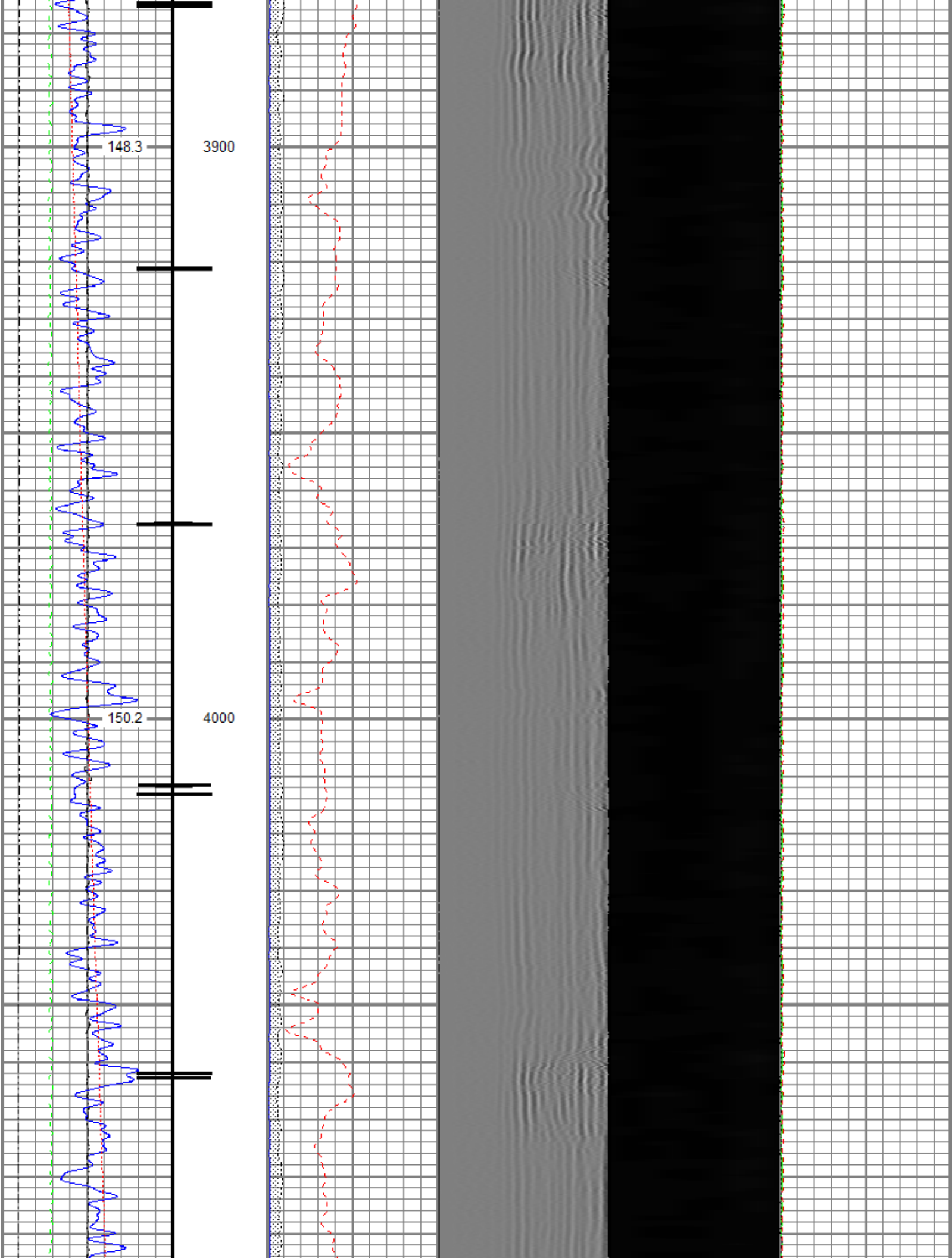


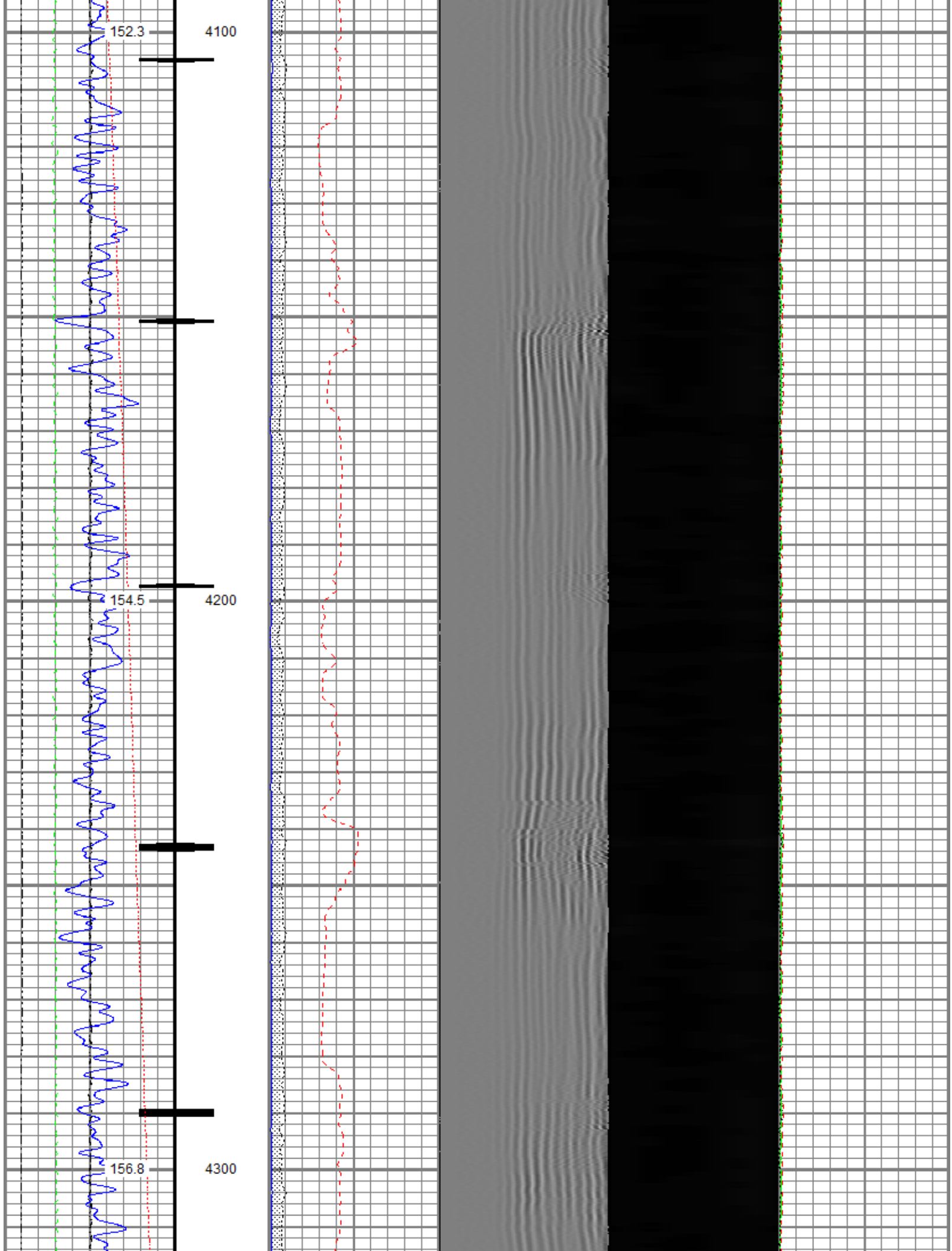


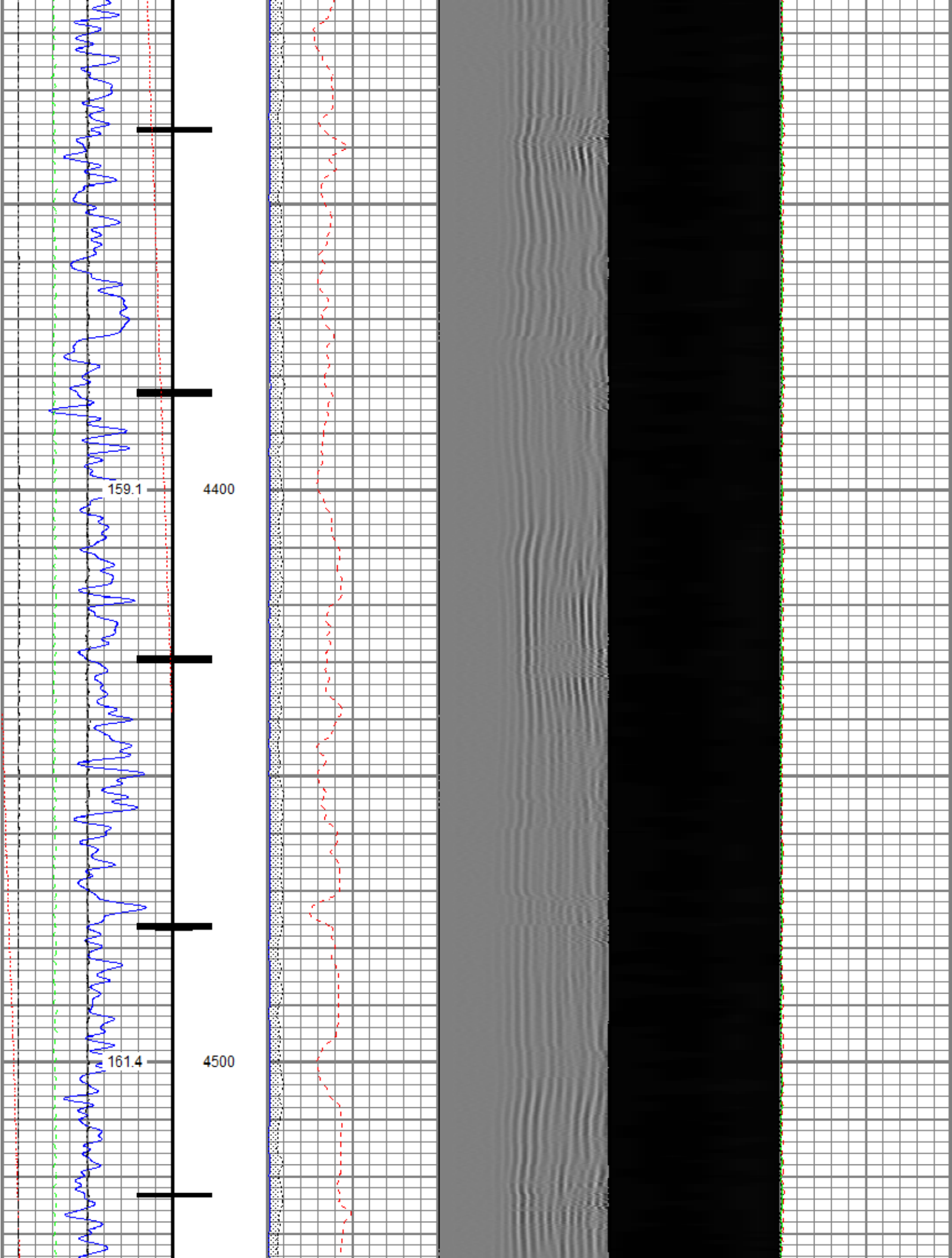


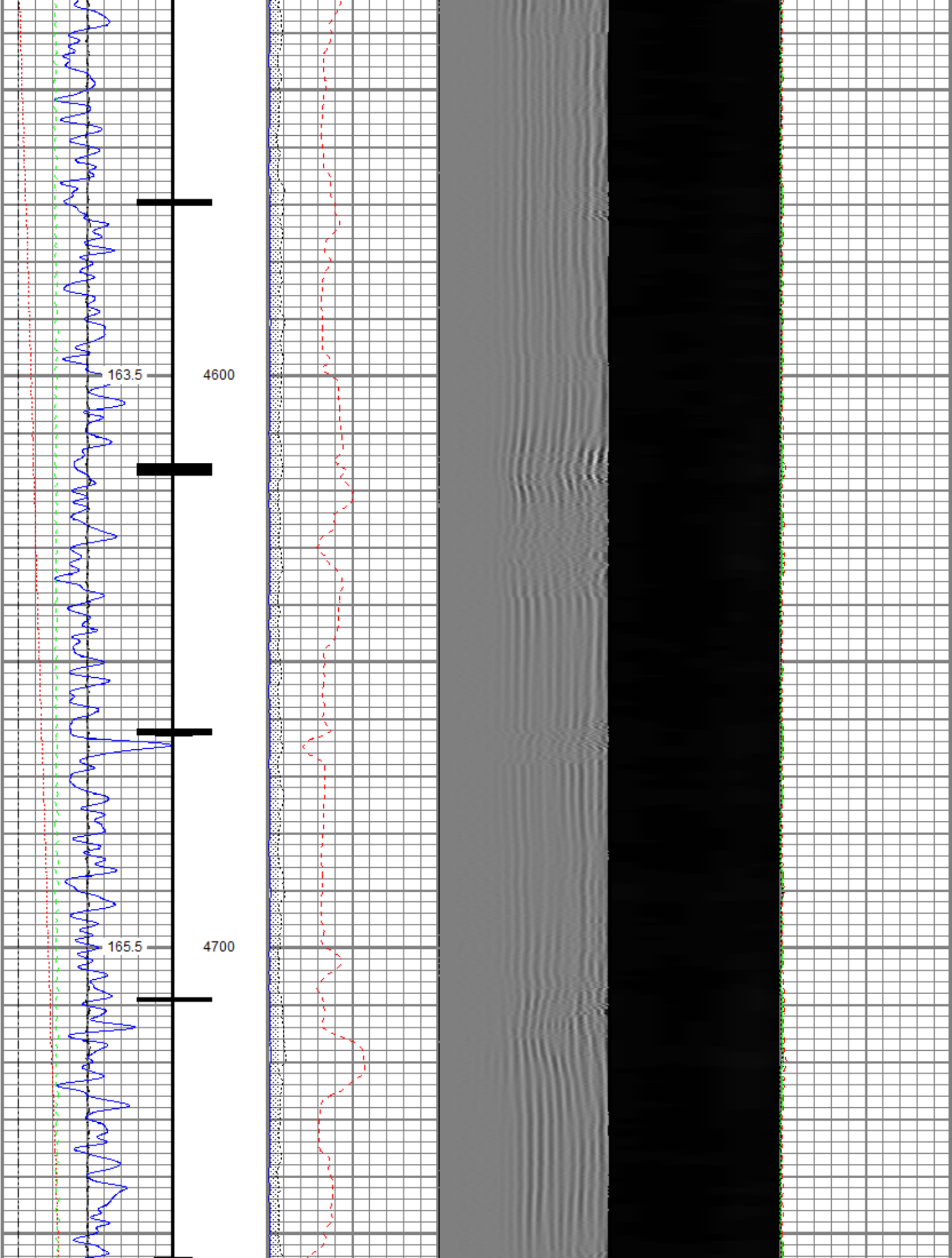


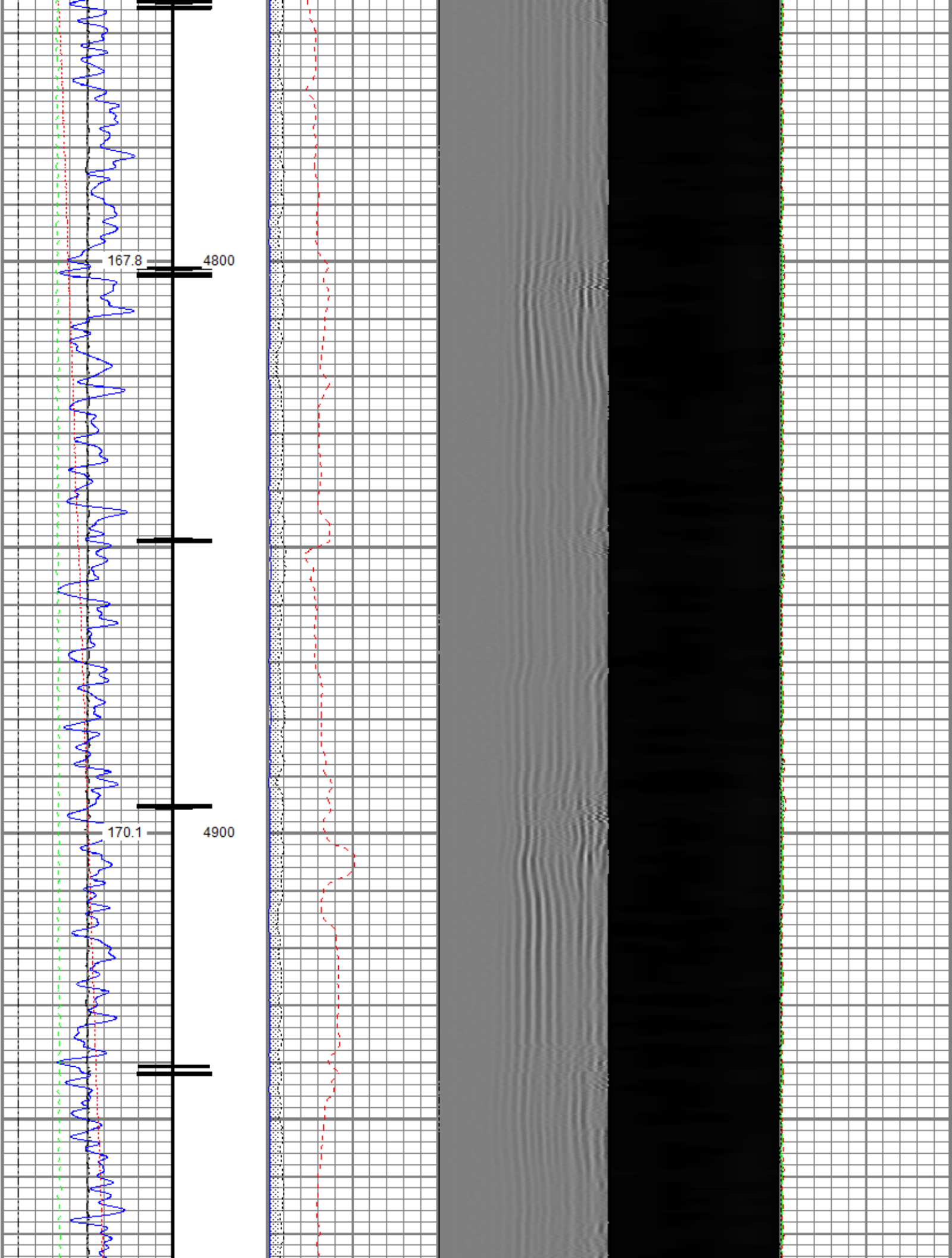


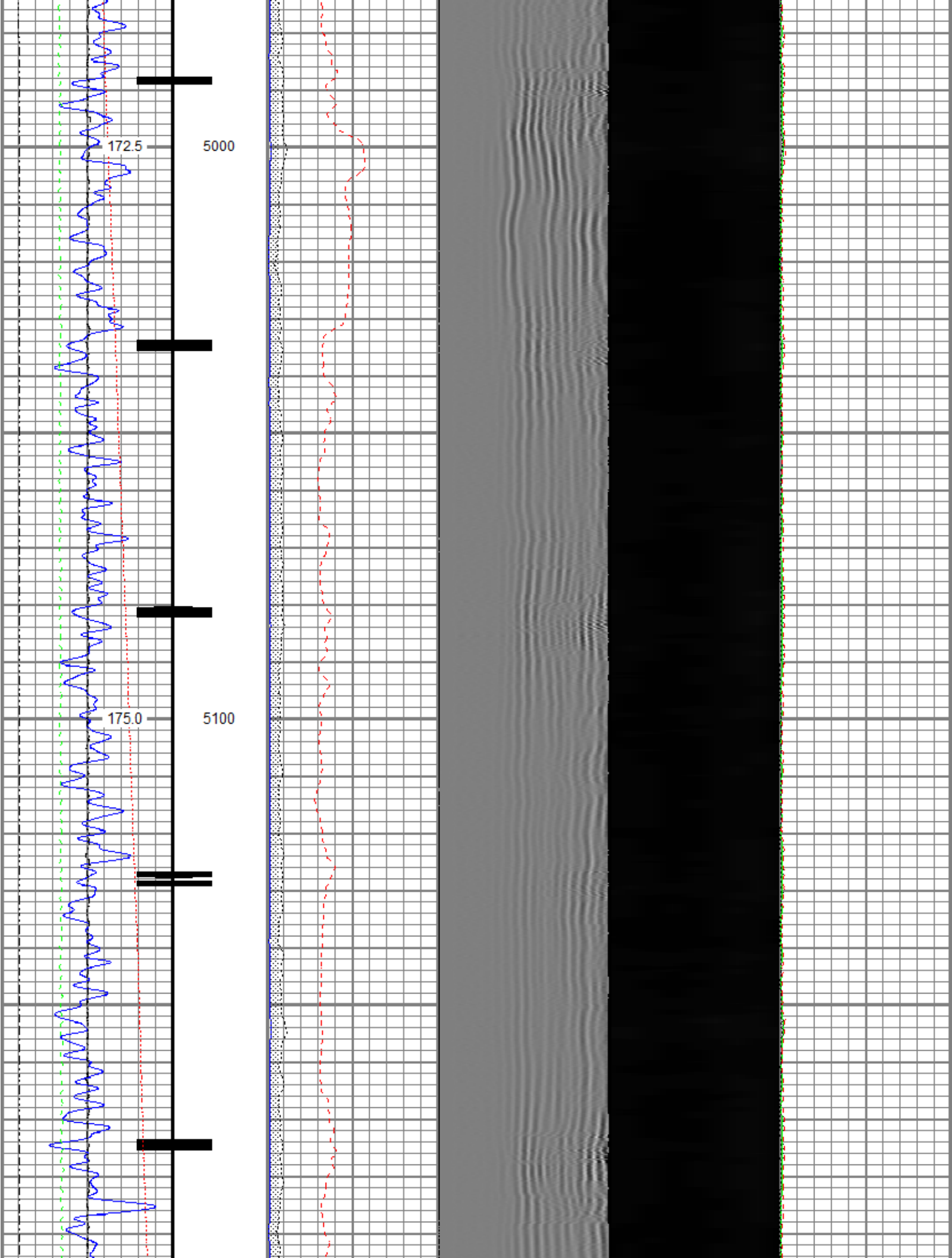


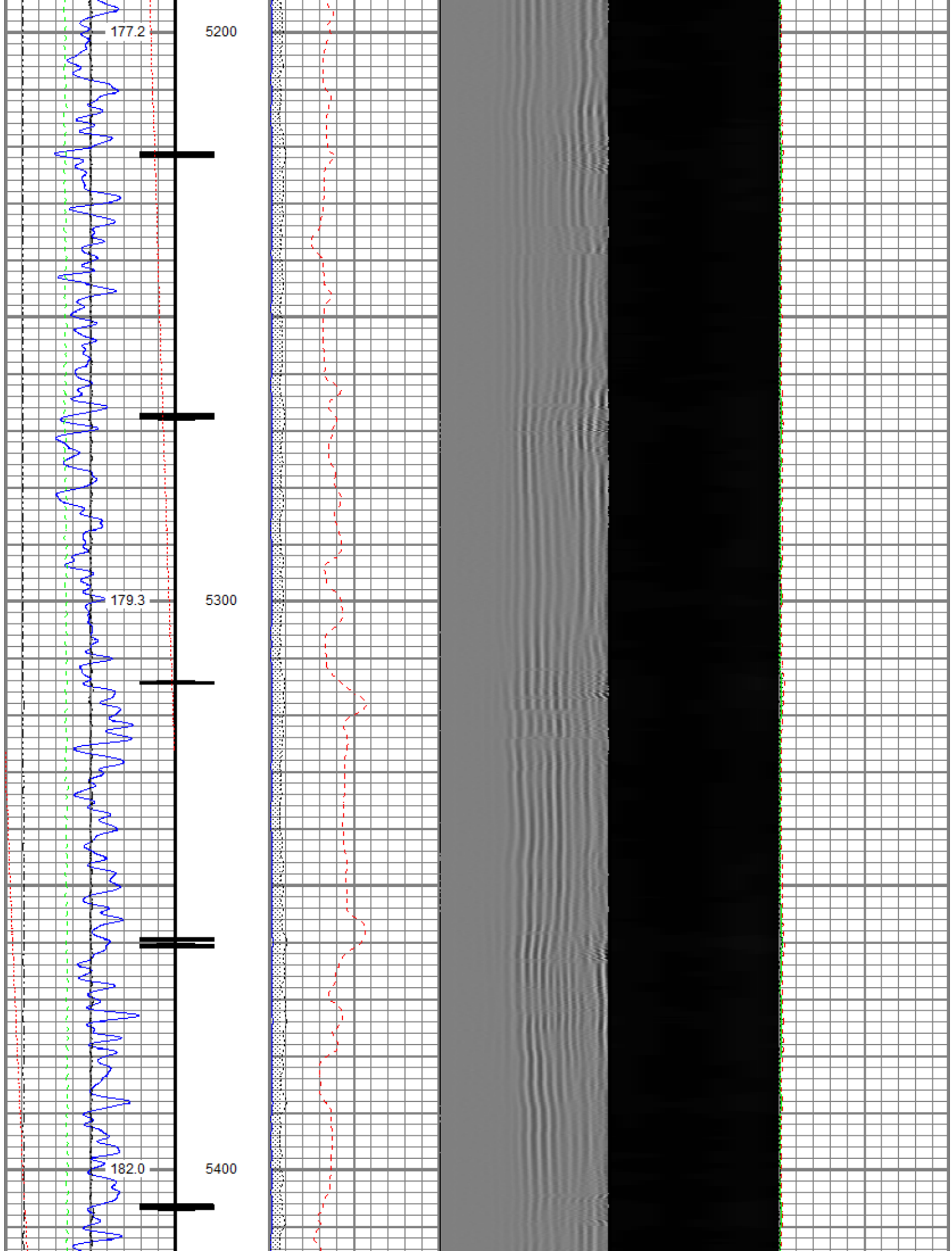


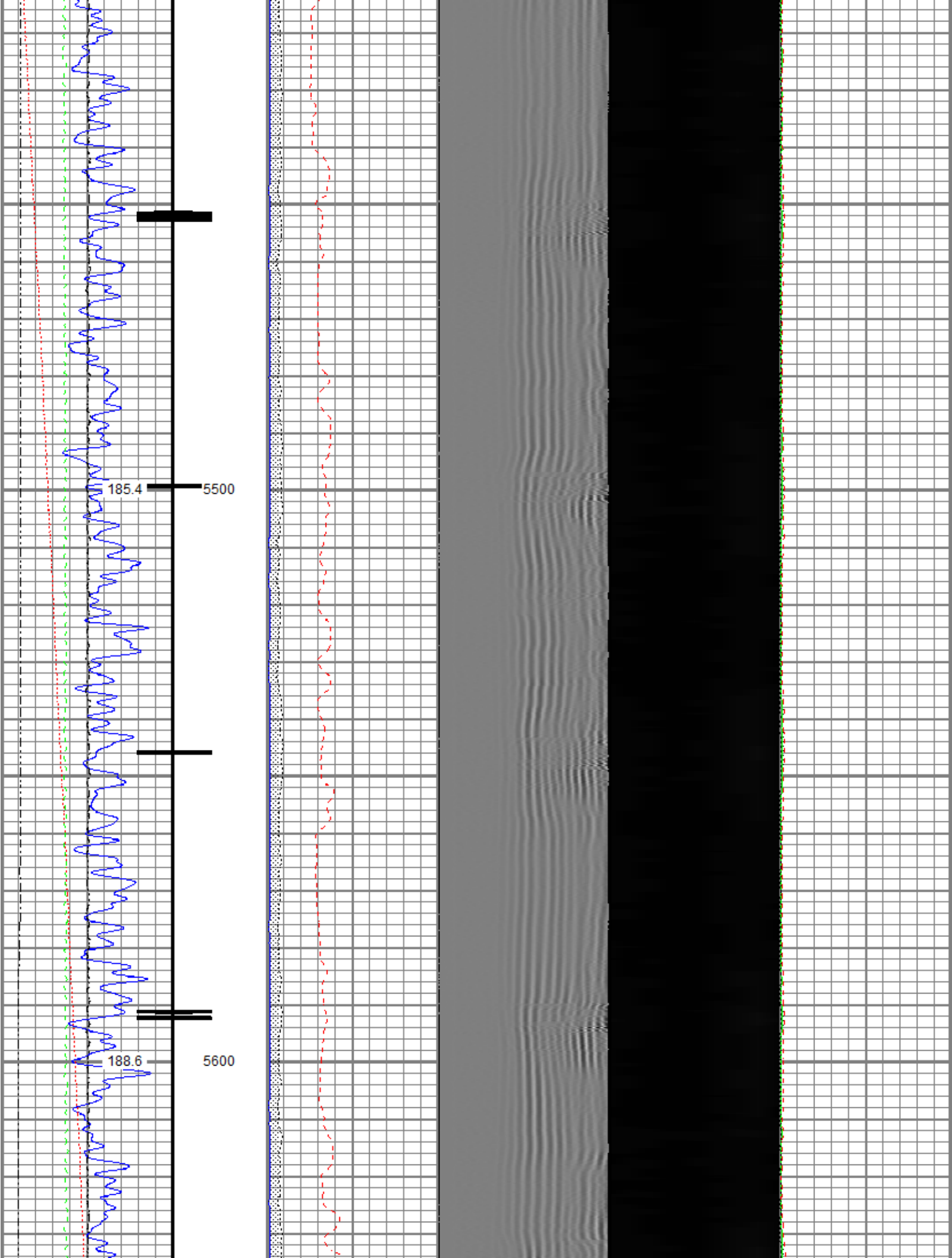


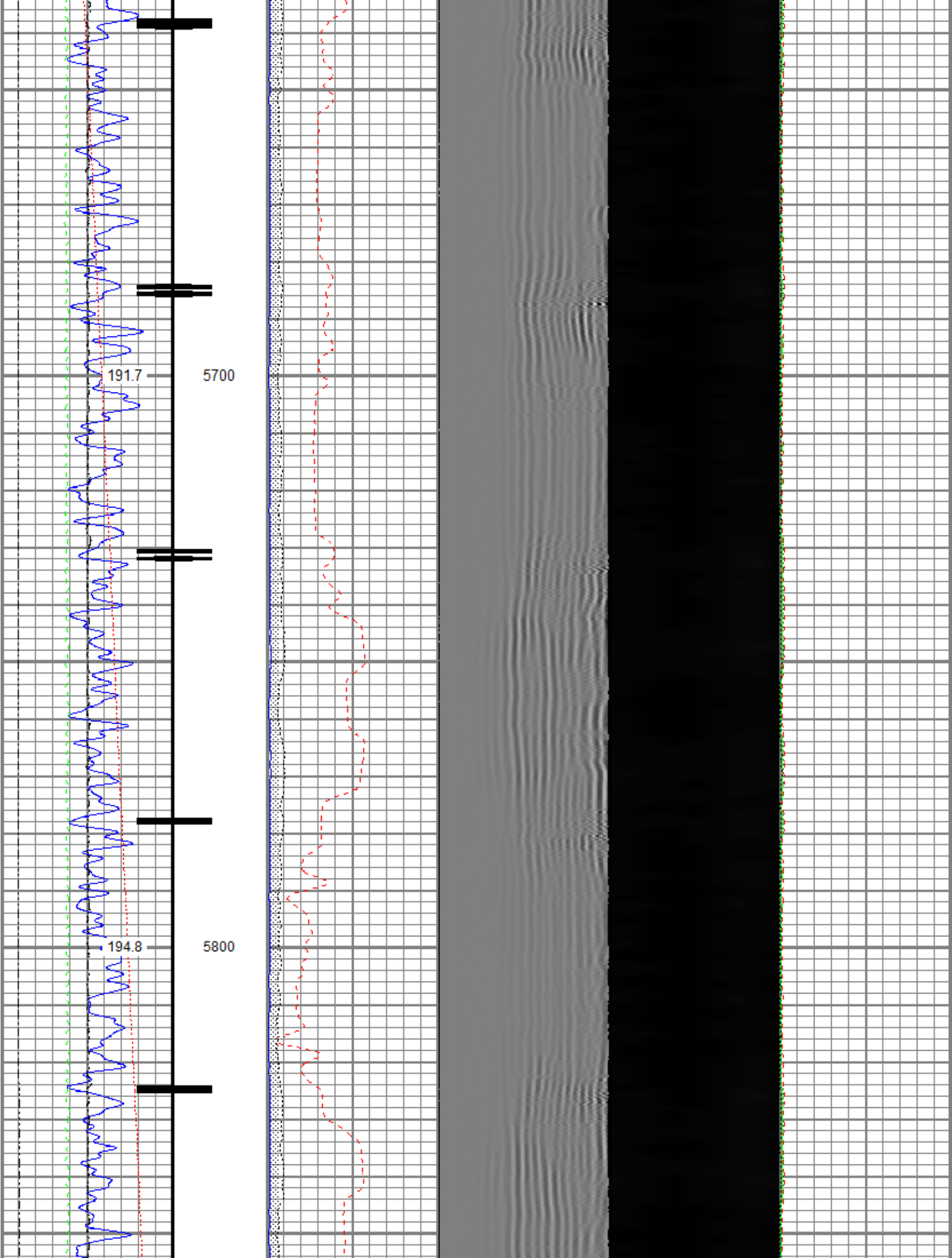


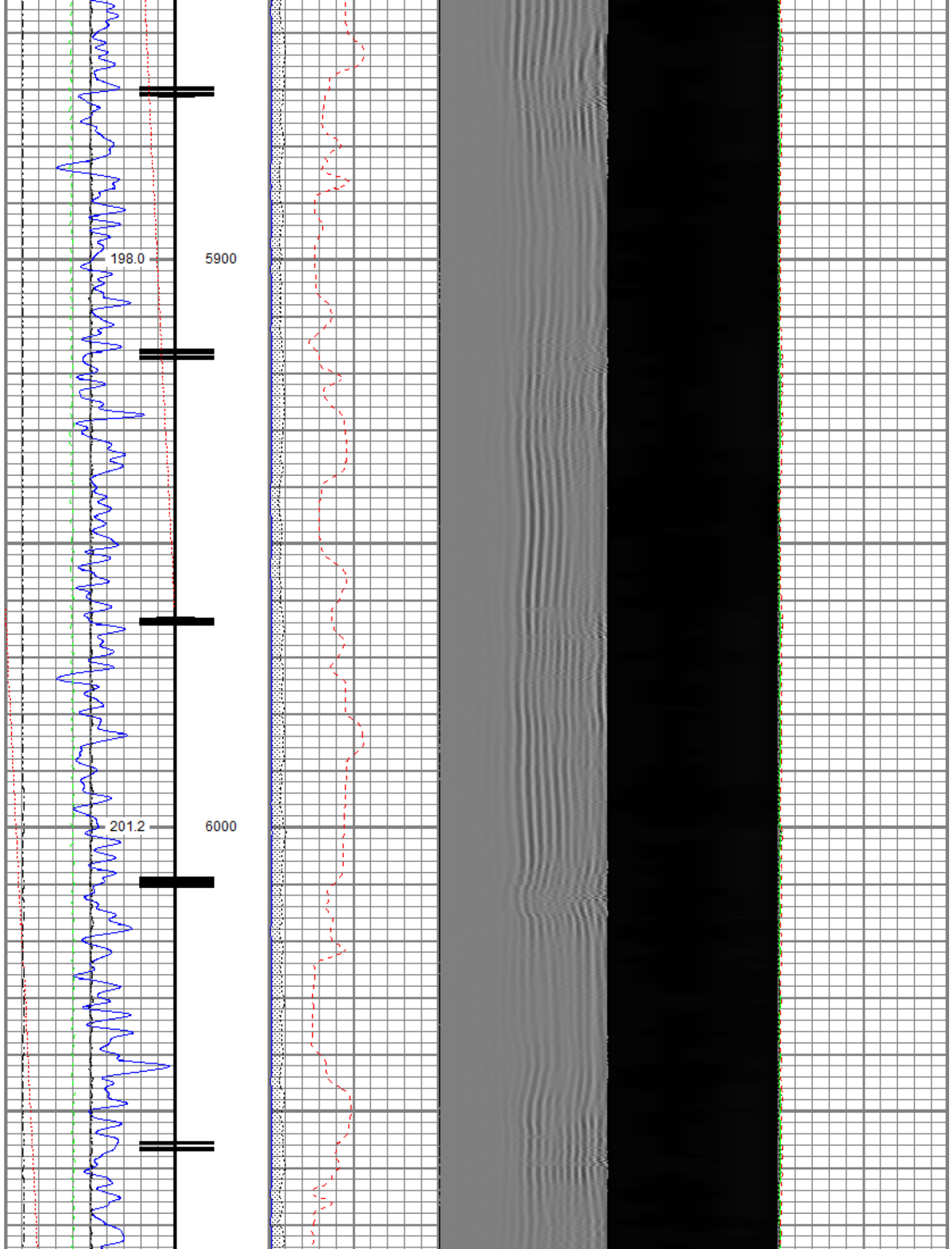


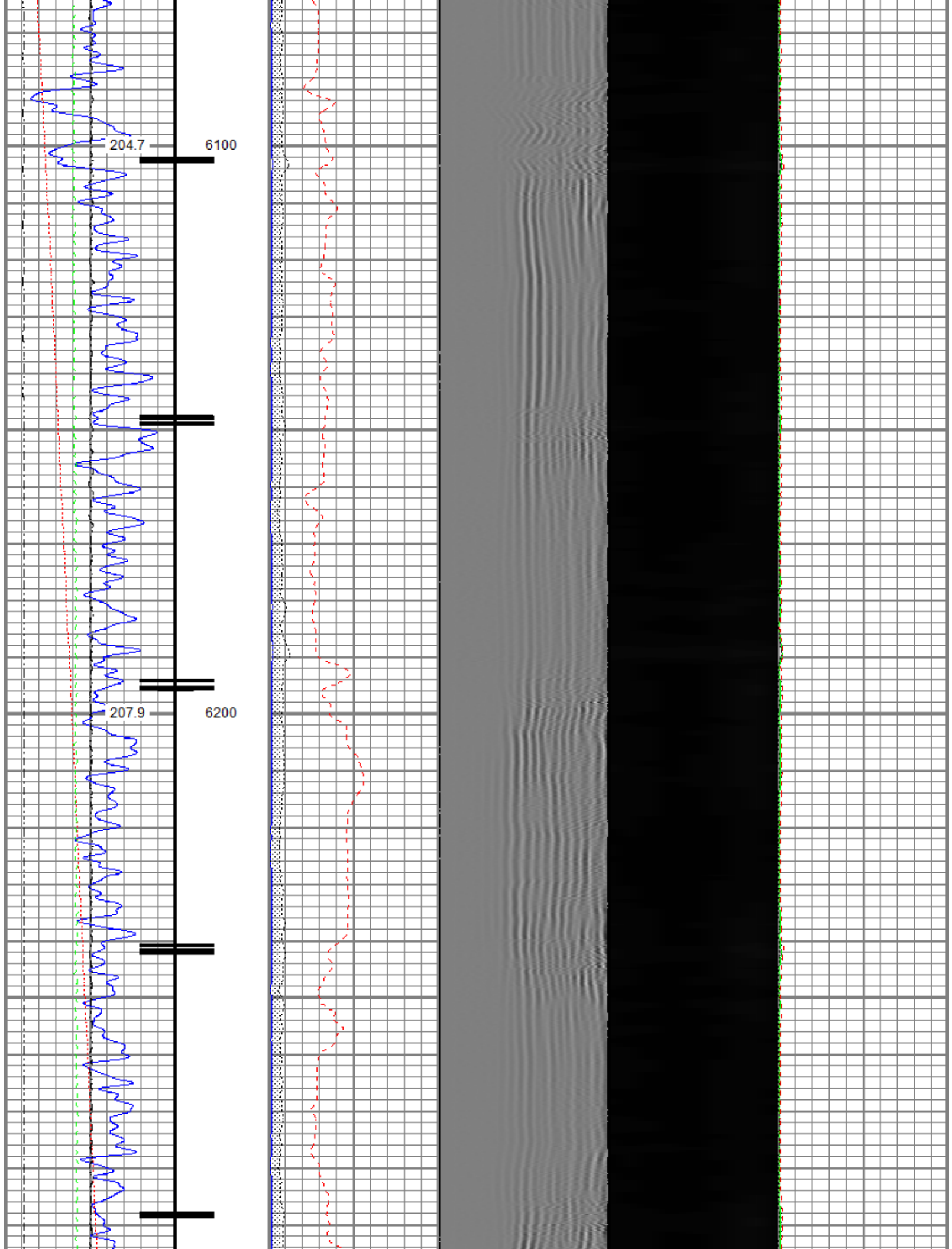


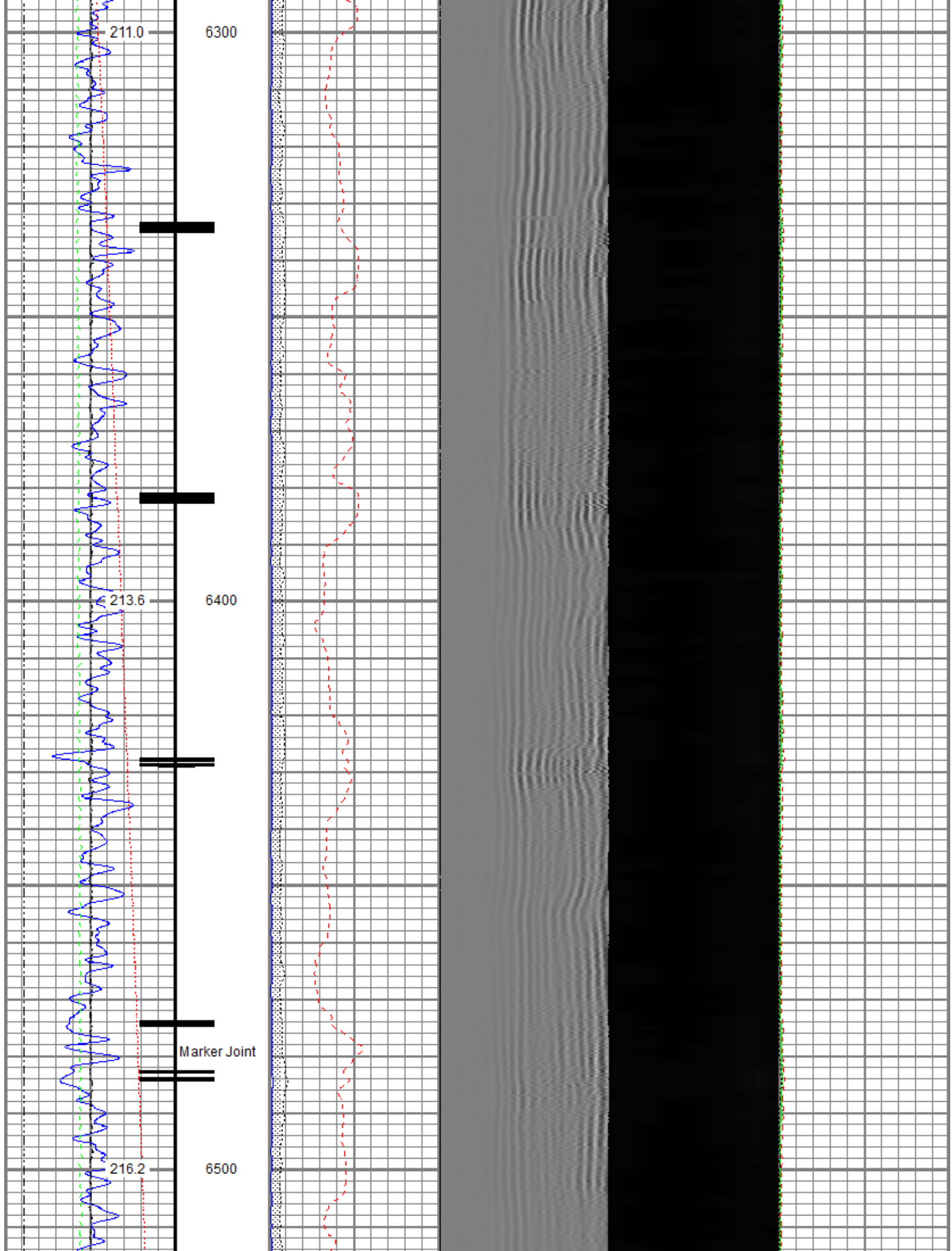


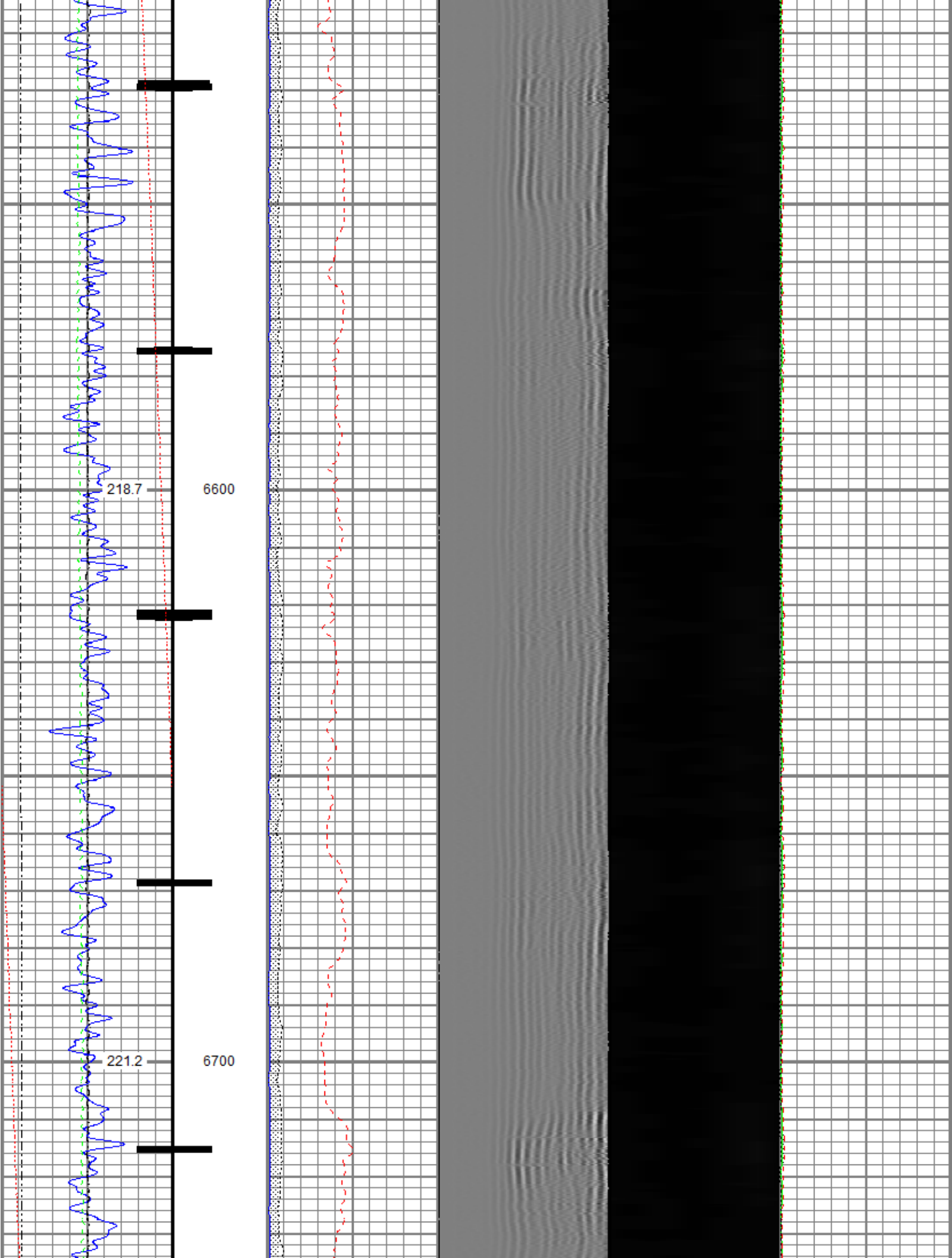


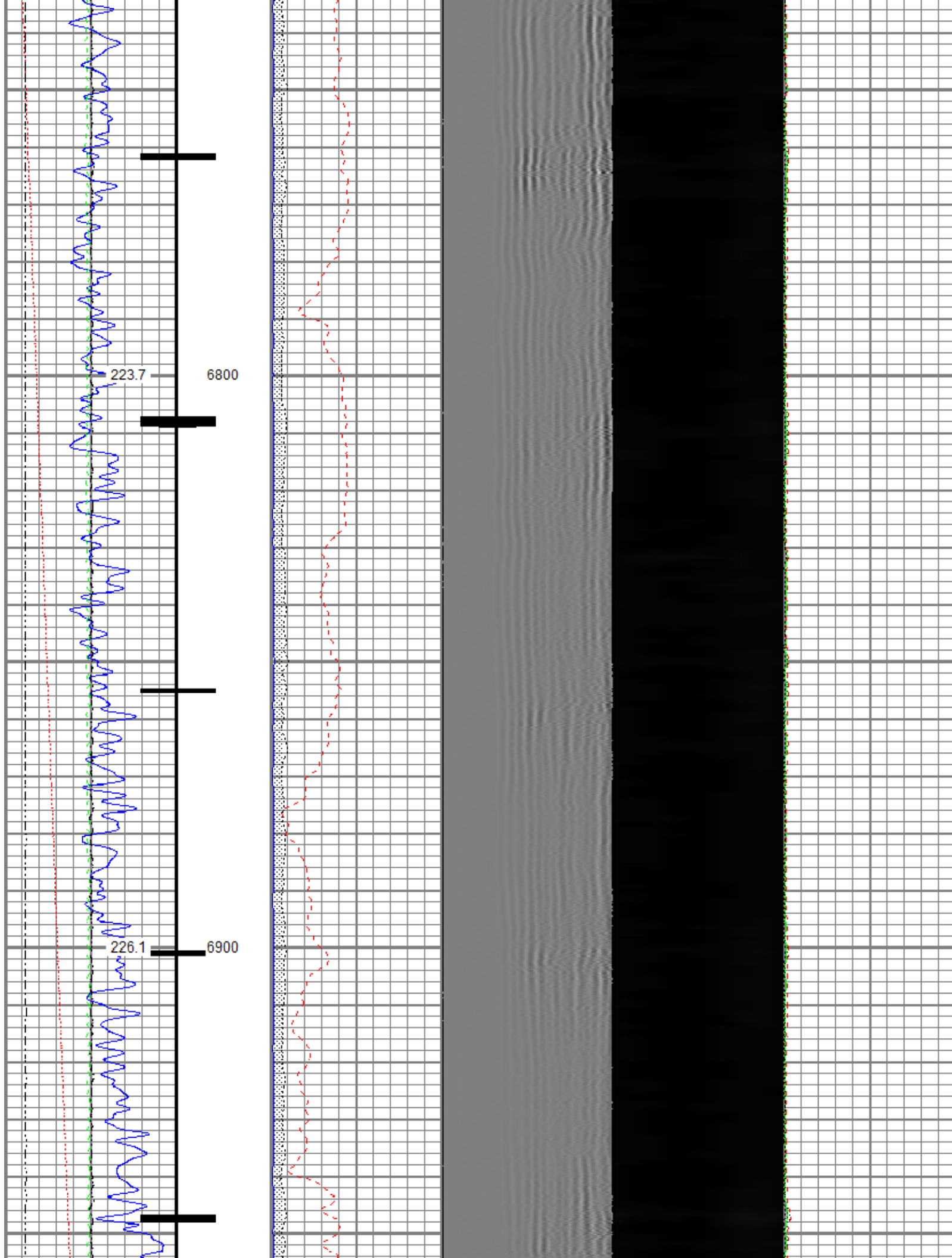


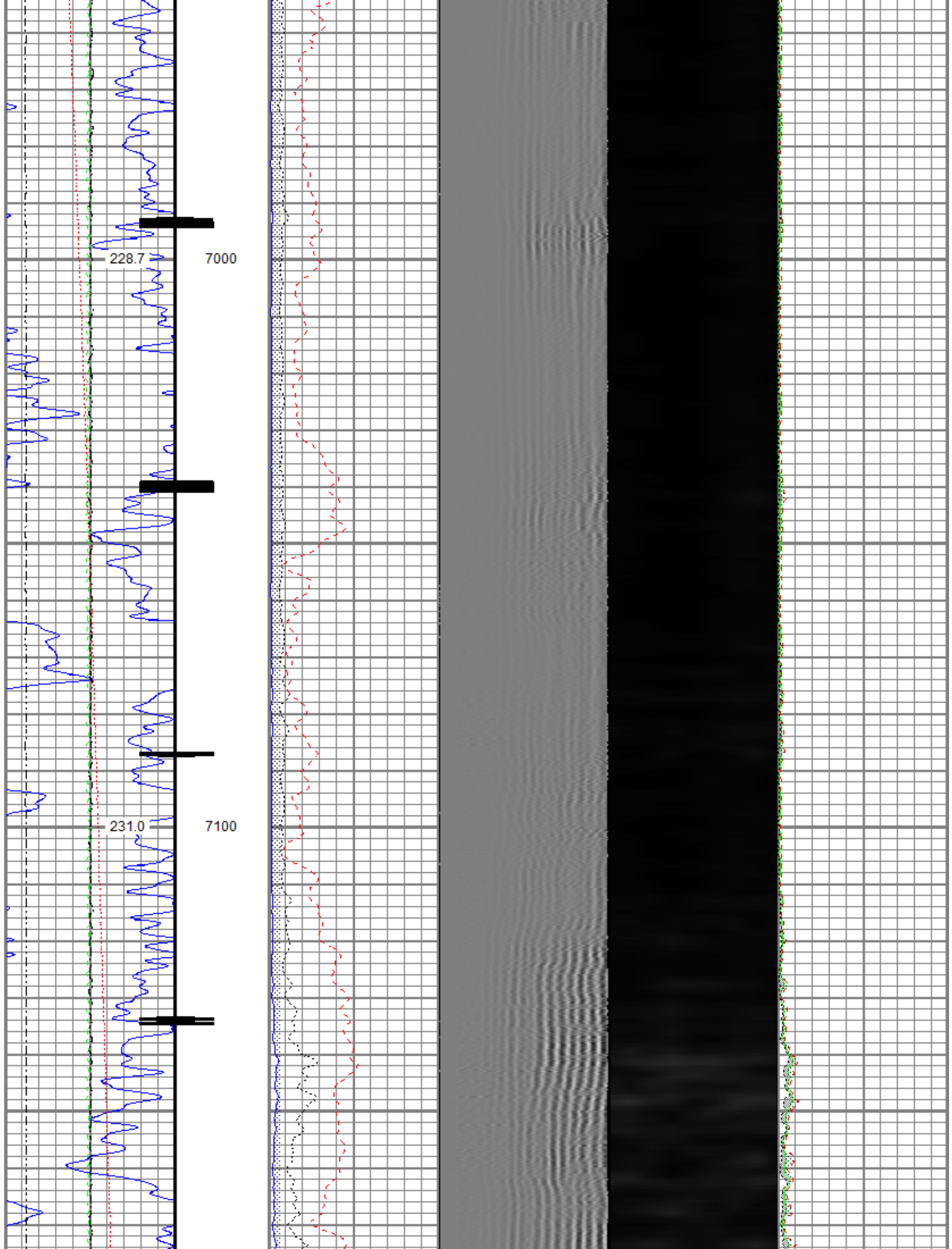


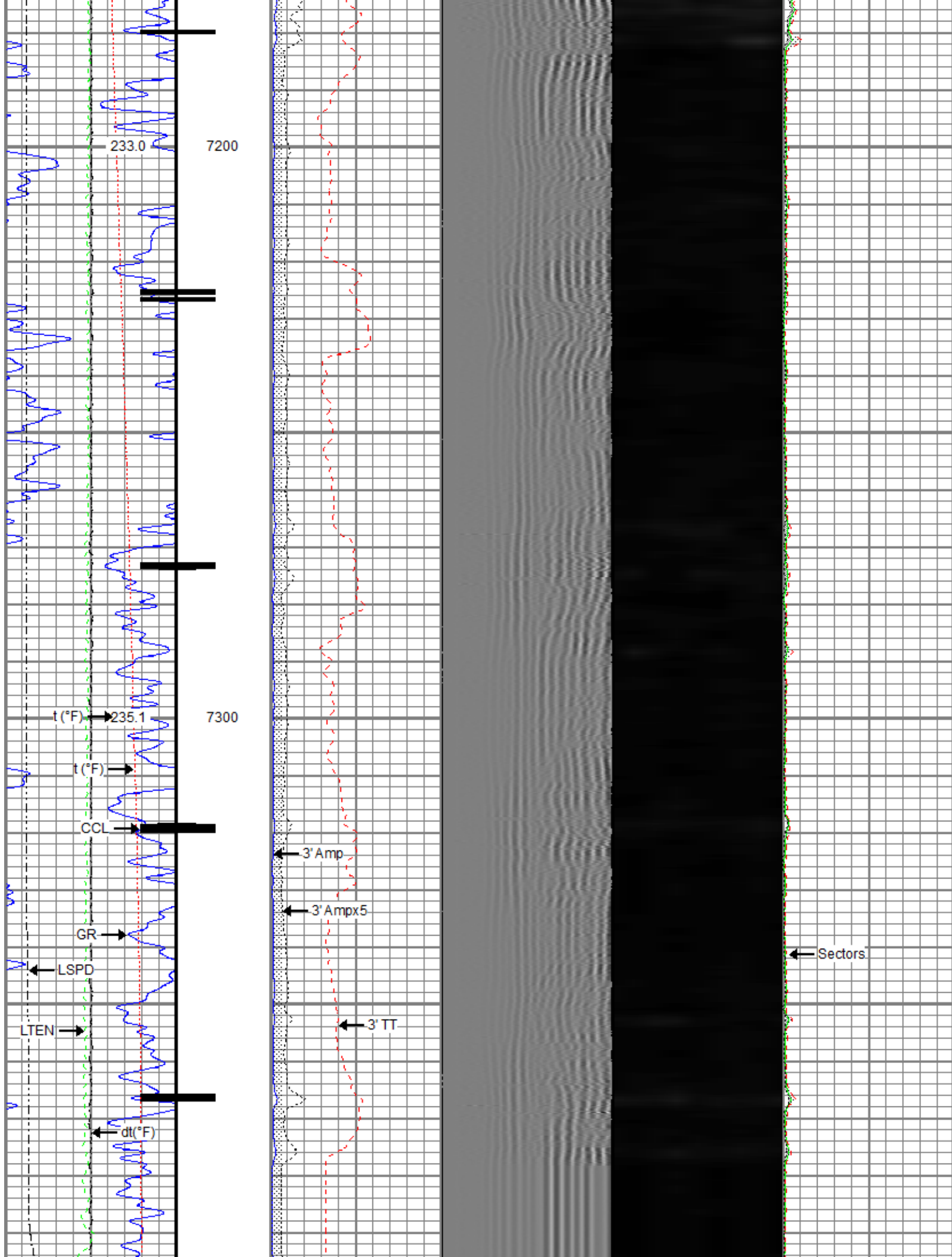


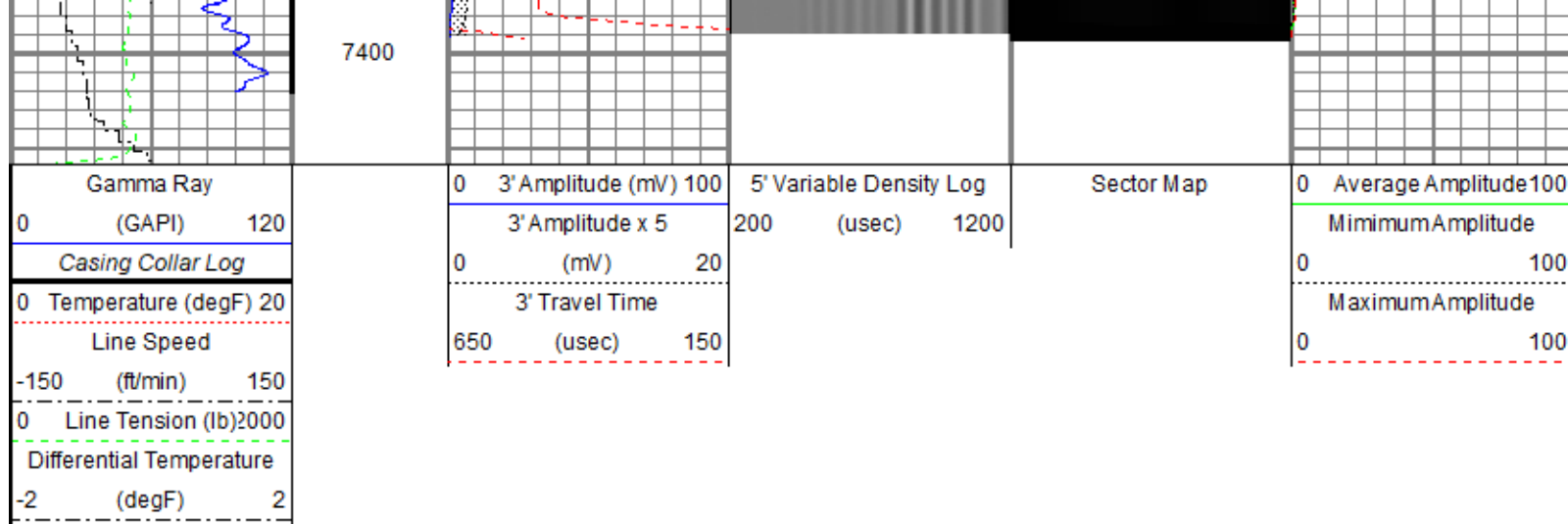








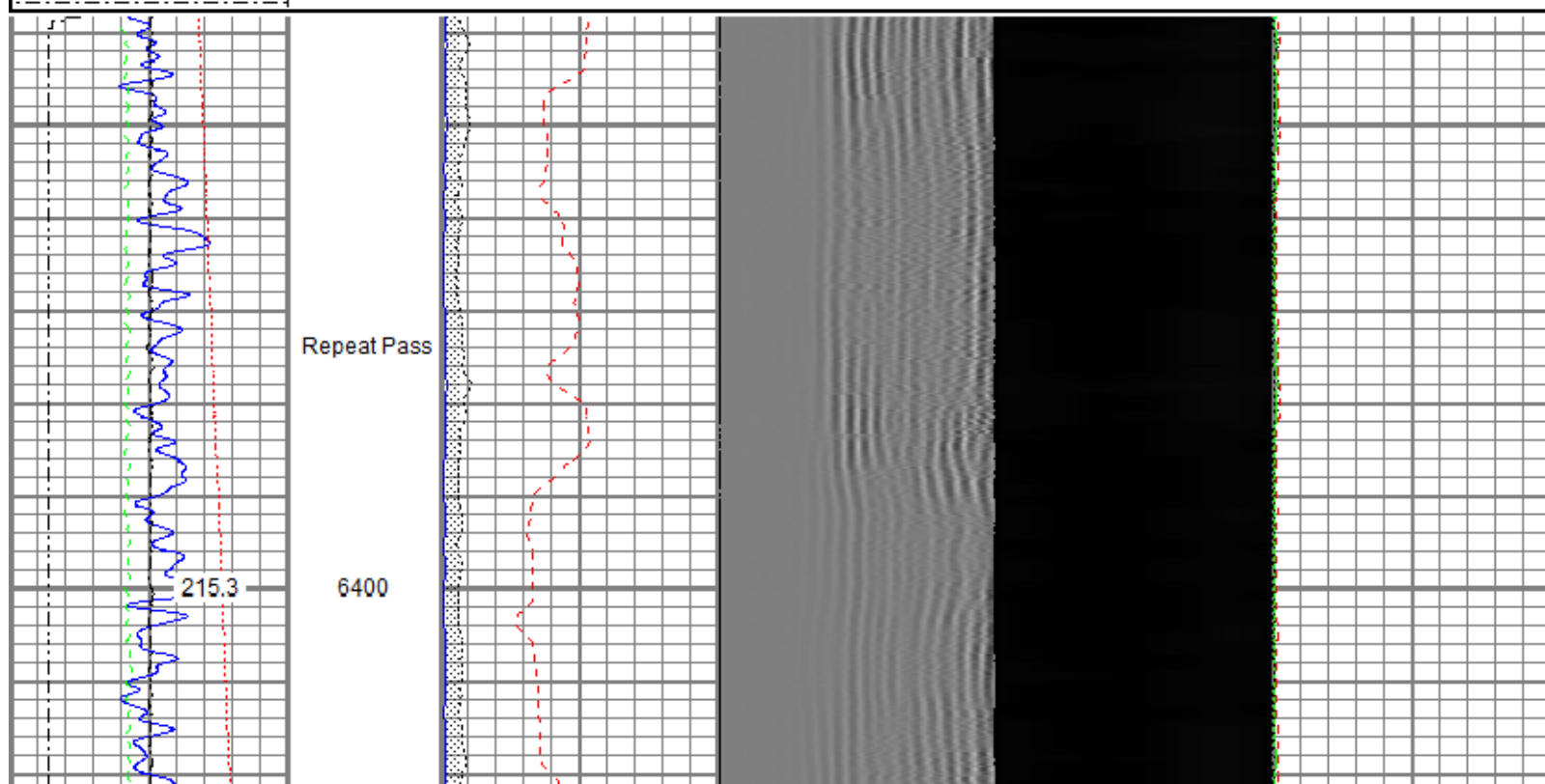
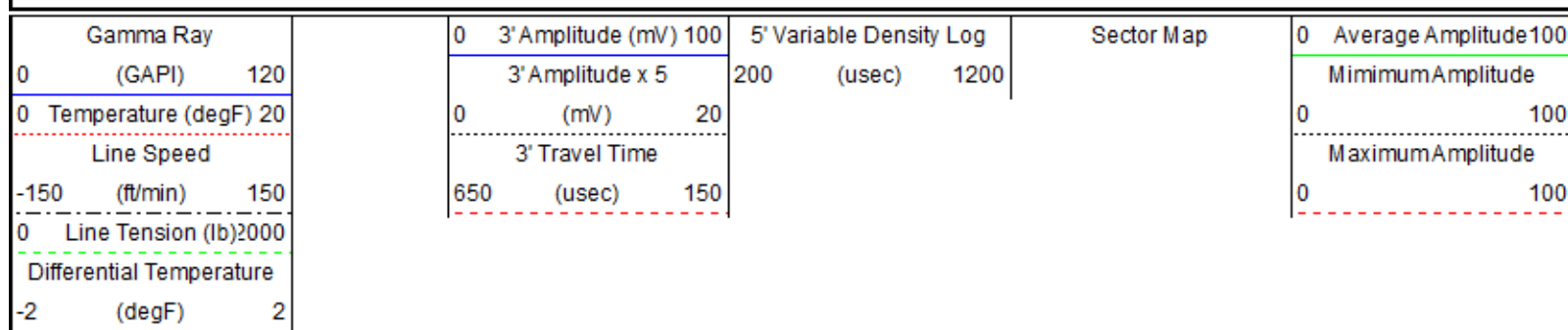


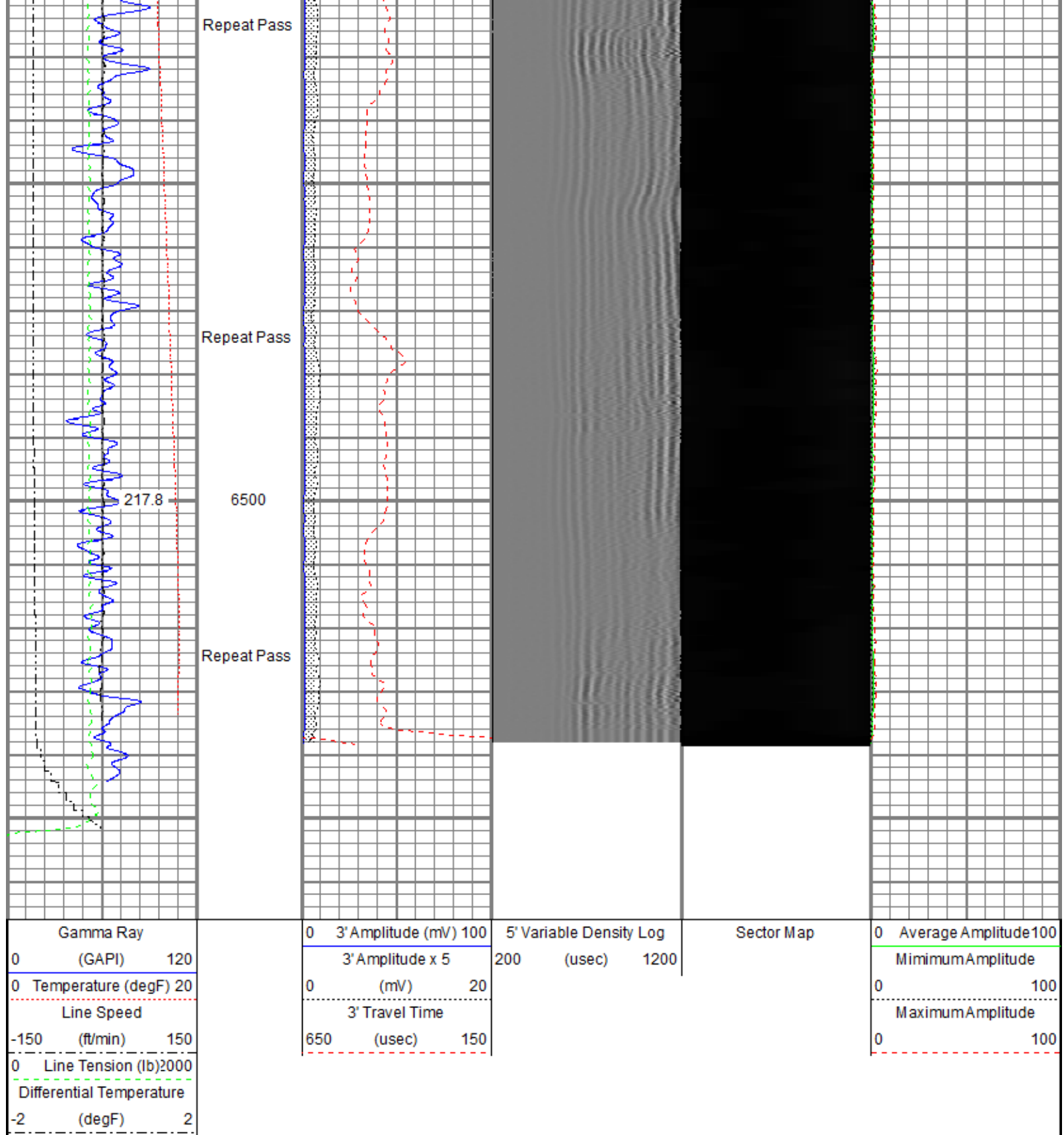


Repeat Pass

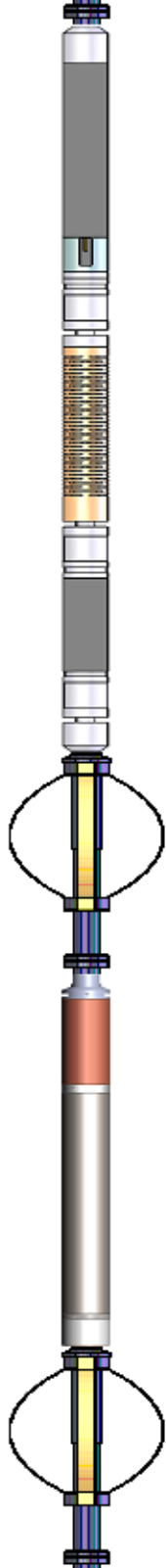
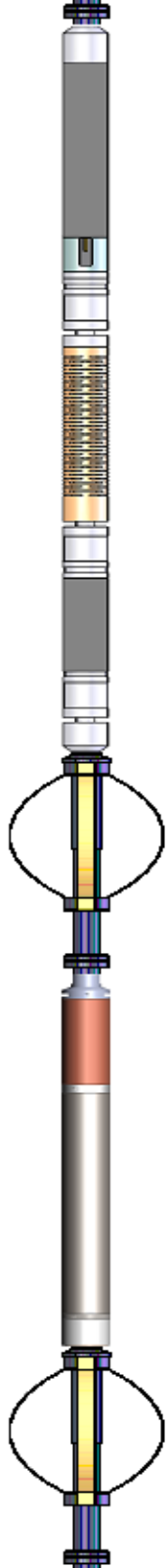
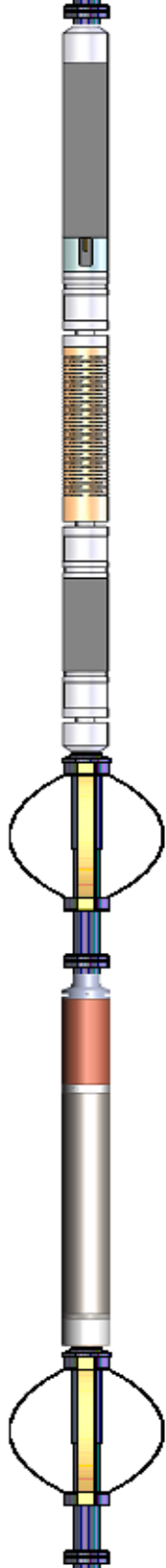
Recorded With 2200 PSI Surface Induced Pressure

Database File: noble\noble_reveille a35-750_rbl_02-07-21\noble_reveille a35-750_rbl_02-07-21.db
 Dataset Pathname: repeat/pass1
 Presentation Format: ros_radri_noble
 Dataset Creation: Sun Feb 07 14:12:49 2021
 Charted by: Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			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			

TEMP	17.04		Probe Radii-2750 RBT (120855) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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					
HEADVOLT	10.56					
		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00	
CCL\$2	6.80		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
CCL\$1	6.80					
GR	5.46					
		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 A35-750_RBL_02-07-21.db: field/well/main/pass1 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 A35-750_RBL_02-07-21\Noble_Reveille A35-750_RBL_02-07-21.db
Dataset Pathname	main/pass1
Dataset Creation	Sun Feb 07 14:23:45 2021
Gamma Ray Calibration Report	
Serial Number:	FW1810-044
Tool Model:	2750 6PB
Tool Date:	02-02-21 15:00:10

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:	-23.756	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.610	0.800	71.921	116.572	0.783
CAL	0.658	0.642				
5'	0.000	0.563	0.800	71.921	126.293	0.775
SUM						
S1	0.000	0.624	0.000	100.000	160.211	-0.032
S2	0.000	0.645	0.000	100.000	155.038	-0.035
S3	0.000	0.645	0.000	100.000	155.103	-0.023
S4	0.000	0.619	0.000	100.000	161.493	-0.004
S5	-0.000	0.592	0.000	100.000	168.865	0.076
S6	0.000	0.574	0.000	100.000	174.411	-0.039
S7	0.000	0.575	0.000	100.000	173.853	-0.039
S8	0.000	0.583	0.000	100.000	171.667	-0.043

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.658	0.642	1.000	0.000

Air Zero Calibration, performed Sun Feb 07 07:19:51 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
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Low Reference:	100.00 - degF	44.00 - degF
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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



Company	Noble Energy Inc
Well	Reveille A35-750
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County	Weld
State	Colorado