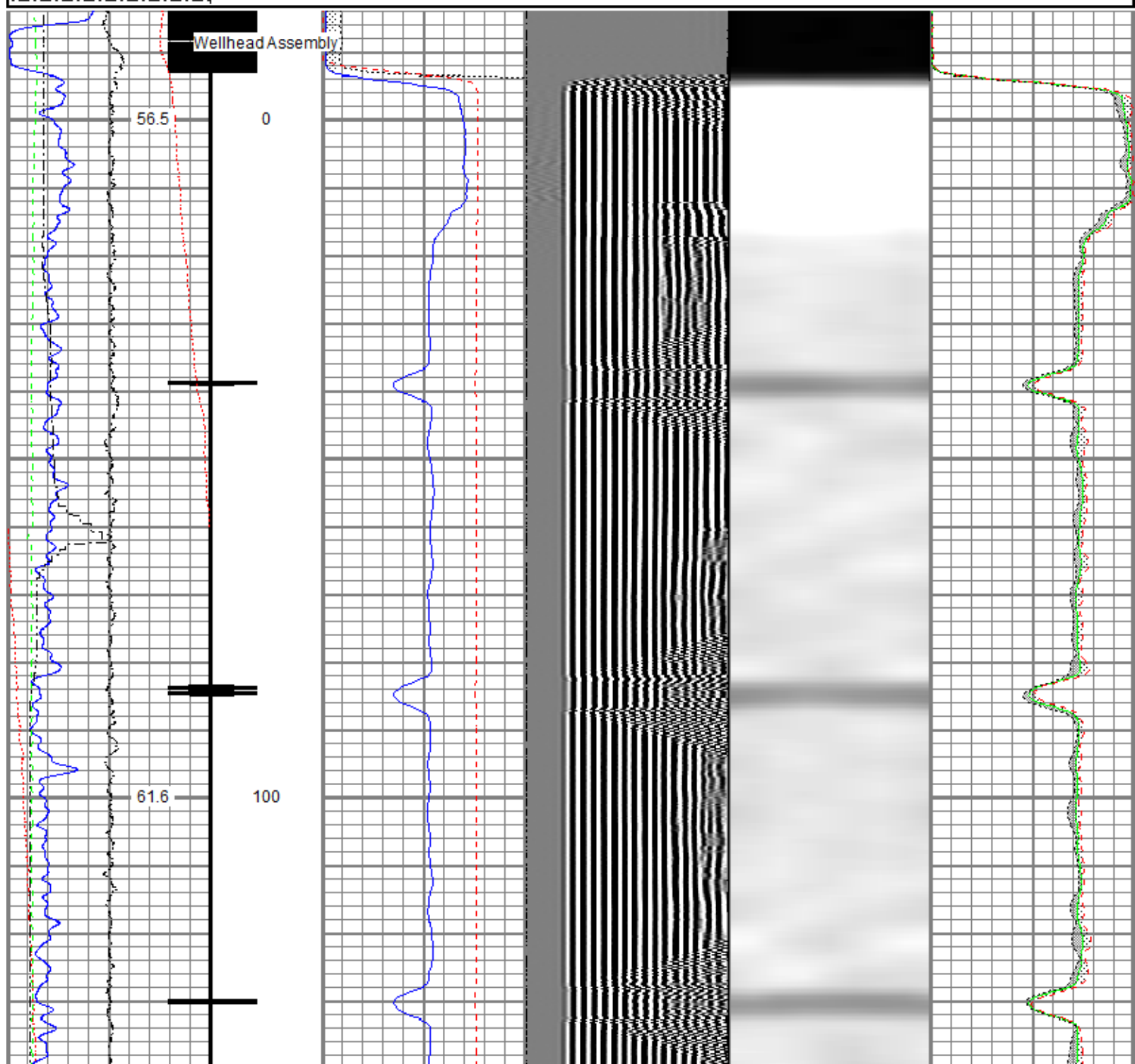
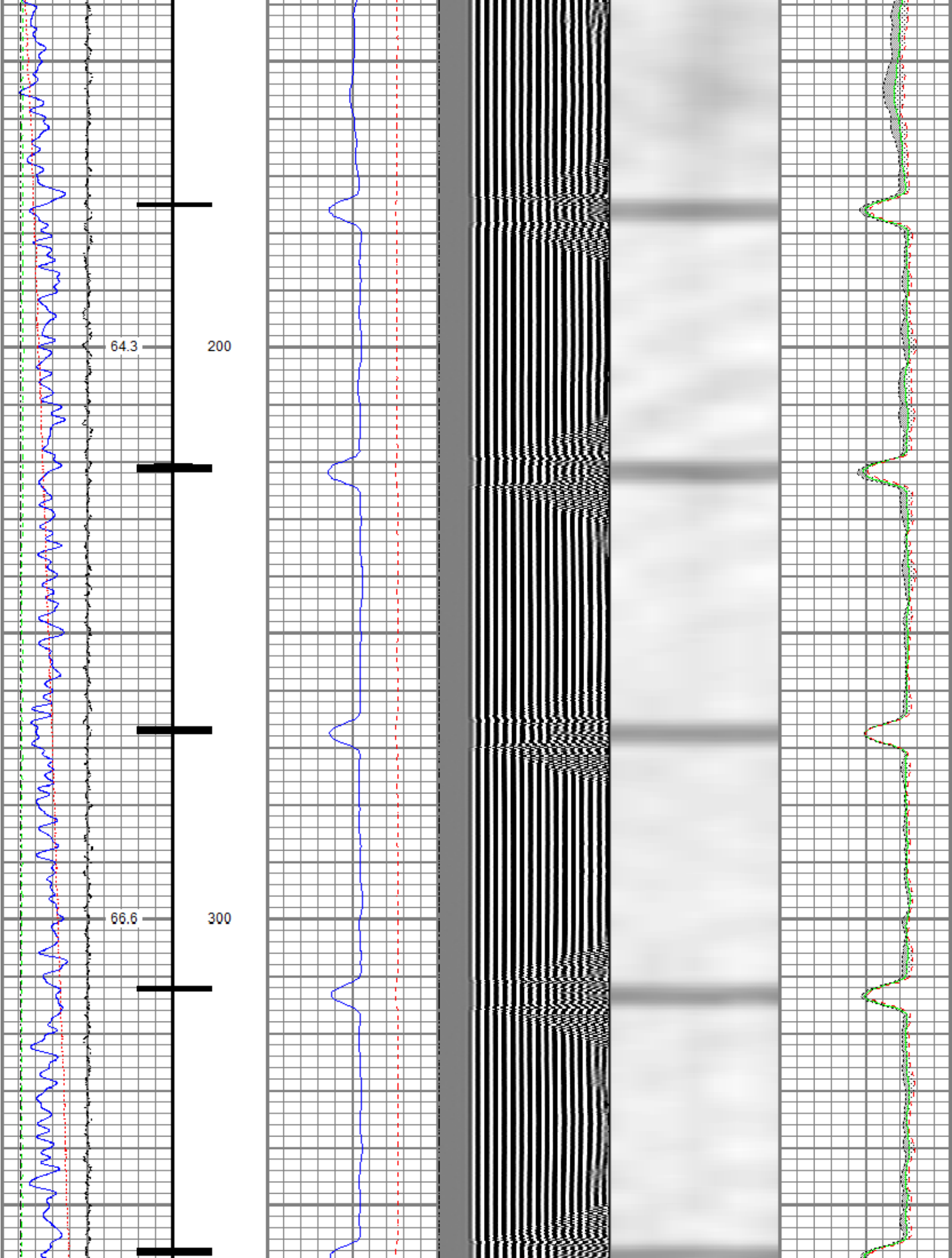


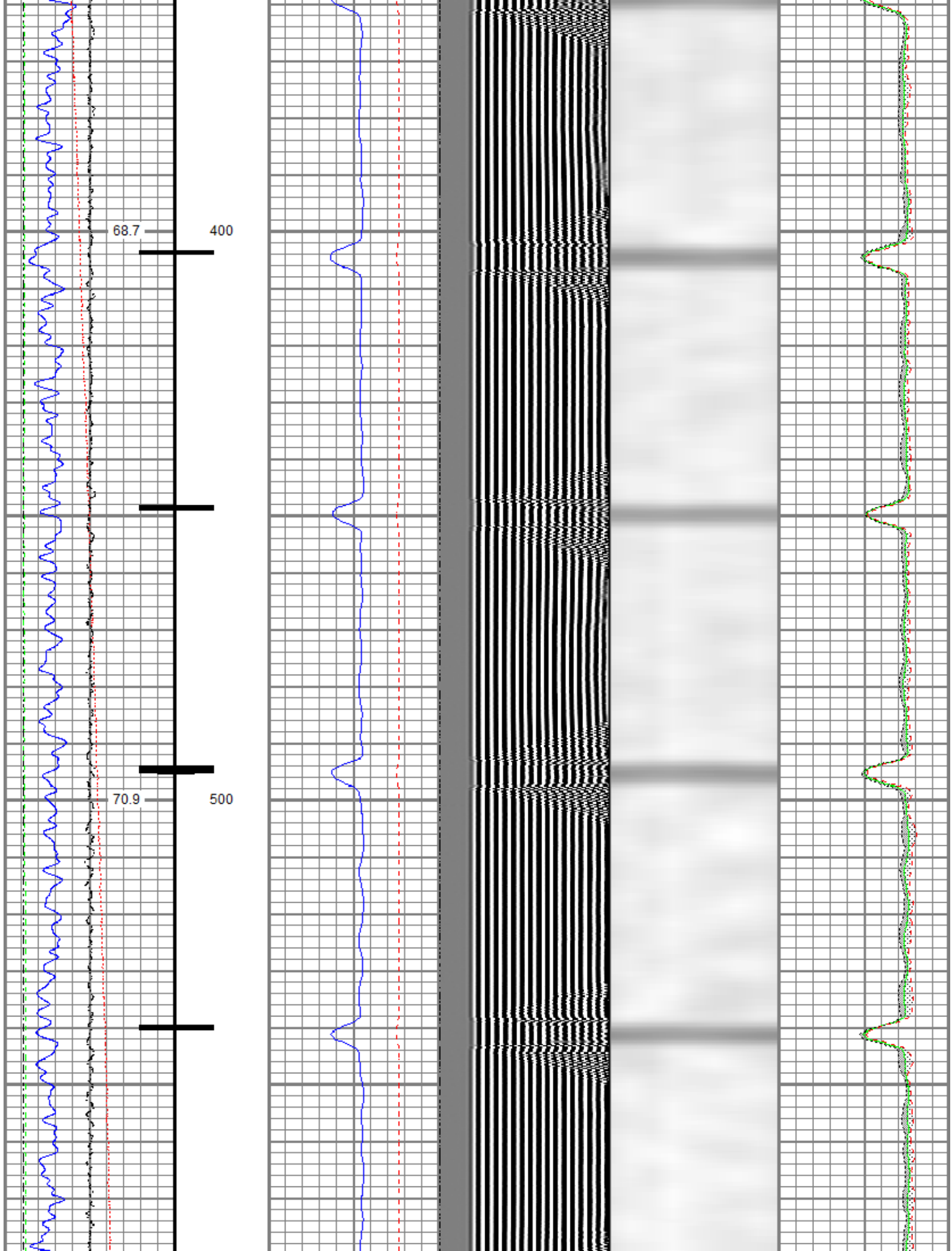
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
<p>Log ran as per customer request Depth referenced to Marker Joint at 6136.1 FT Adjusted -5 FT to correlate with Marker Joint Log ran with 2500 PSI Surface Induced Pressure Logging tools were clean and free of any debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

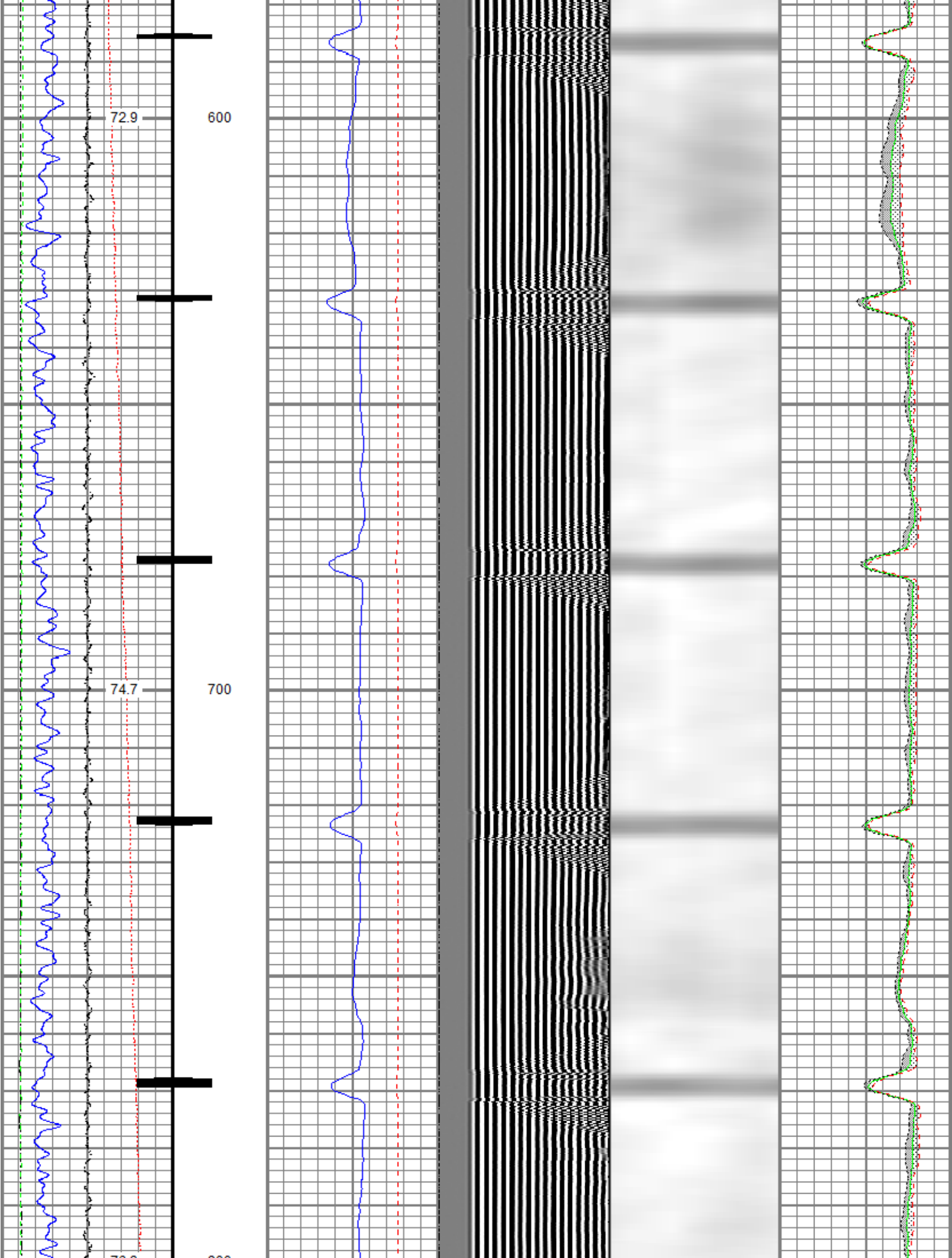
Database File noble_guttersen d09 775\noble_guttersen d09 775_rbl_12-20-20.db
 Dataset Pathname pass4.1
 Presentation Format ros_radri_noble
 Dataset Creation Sun Dec 20 10:28:13 2020
 Charted by Depth in Feet scaled 1:240

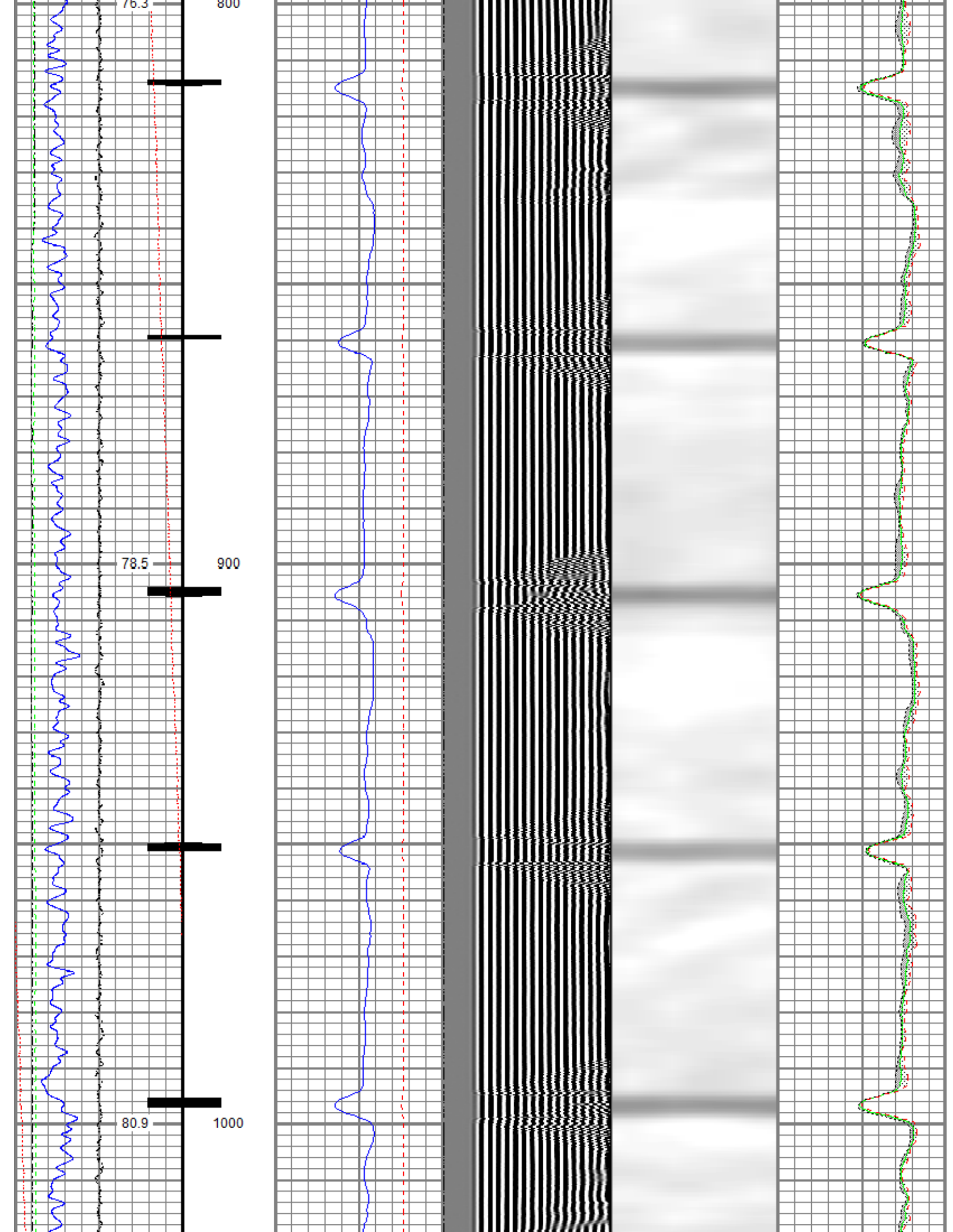
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Log	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min)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

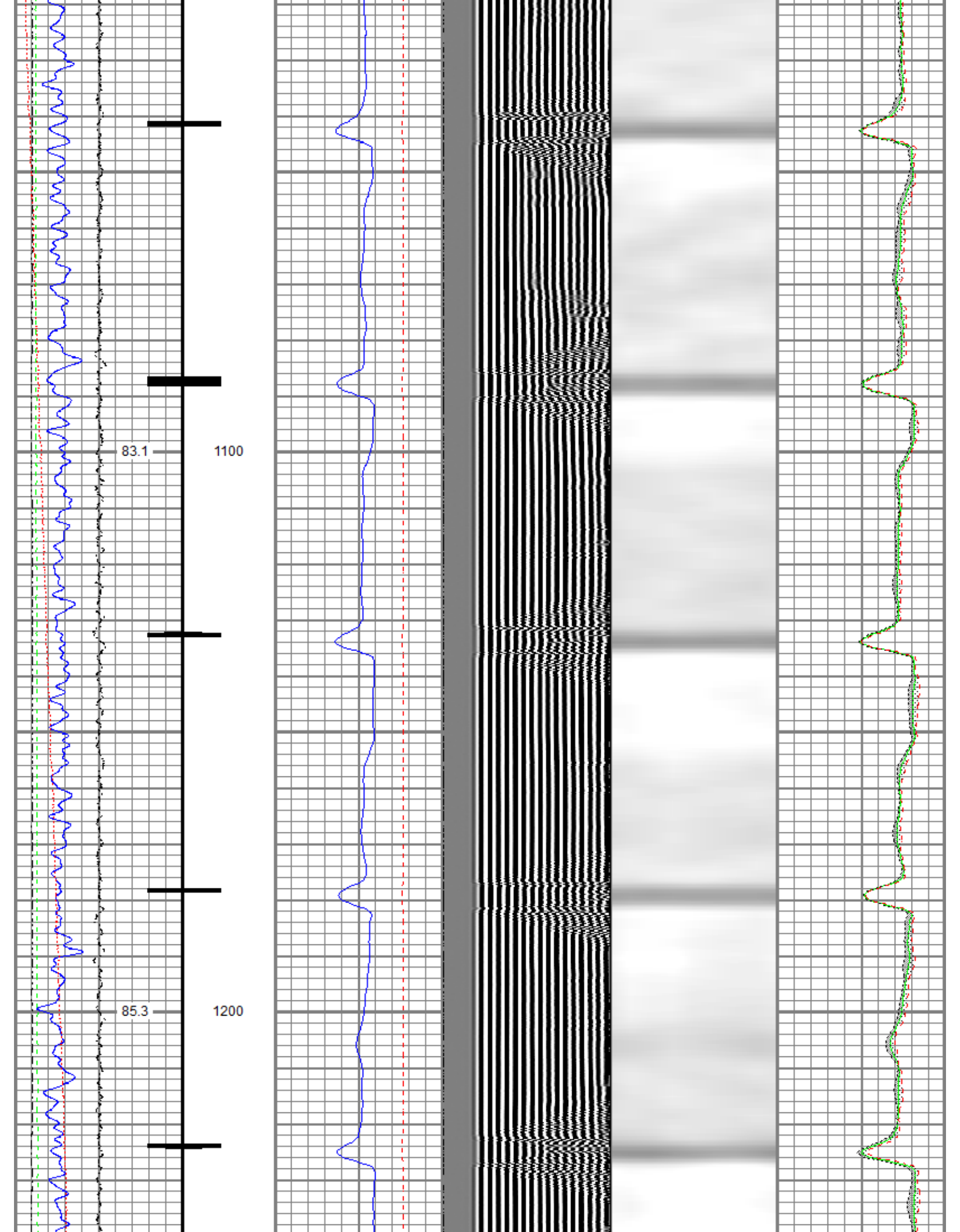


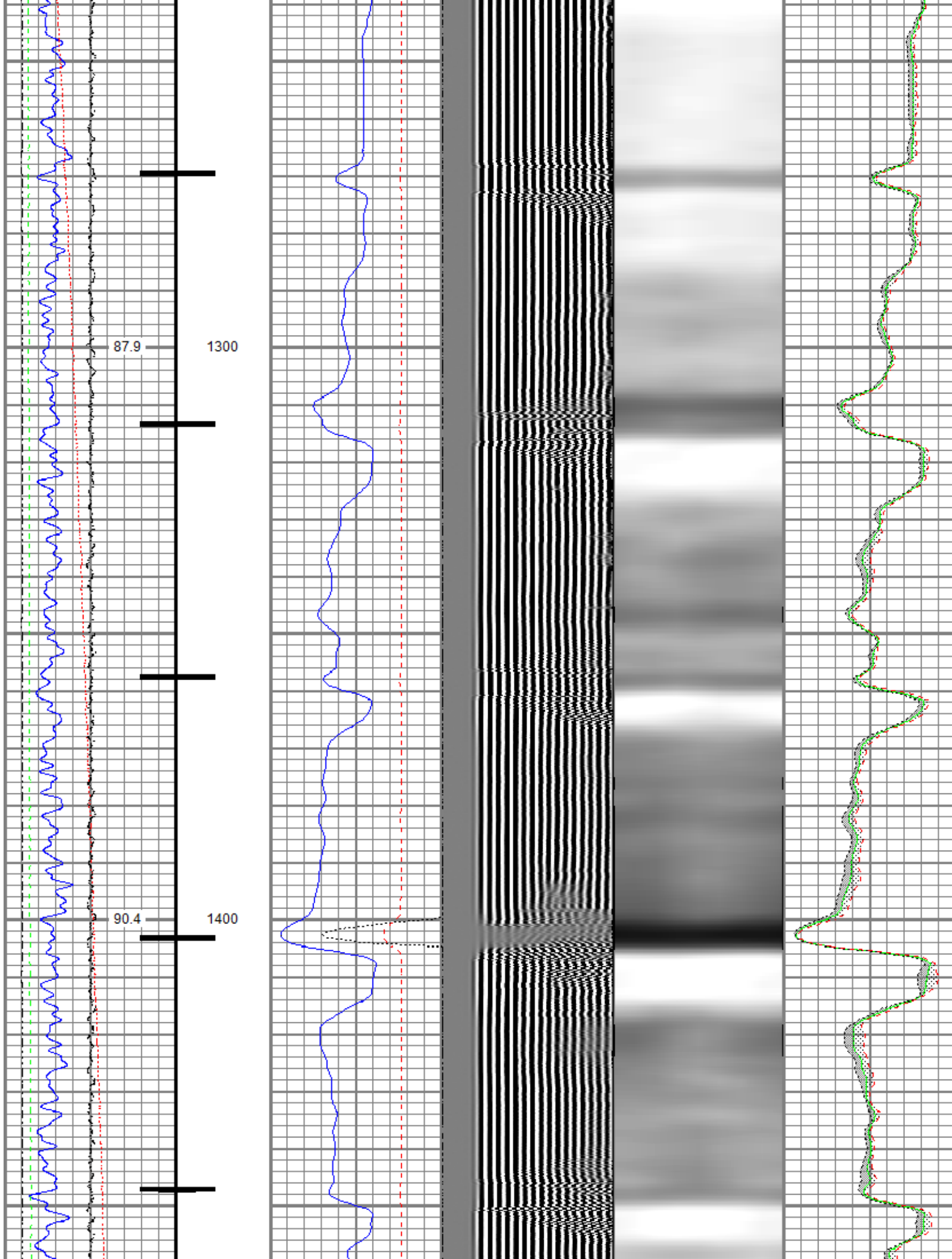


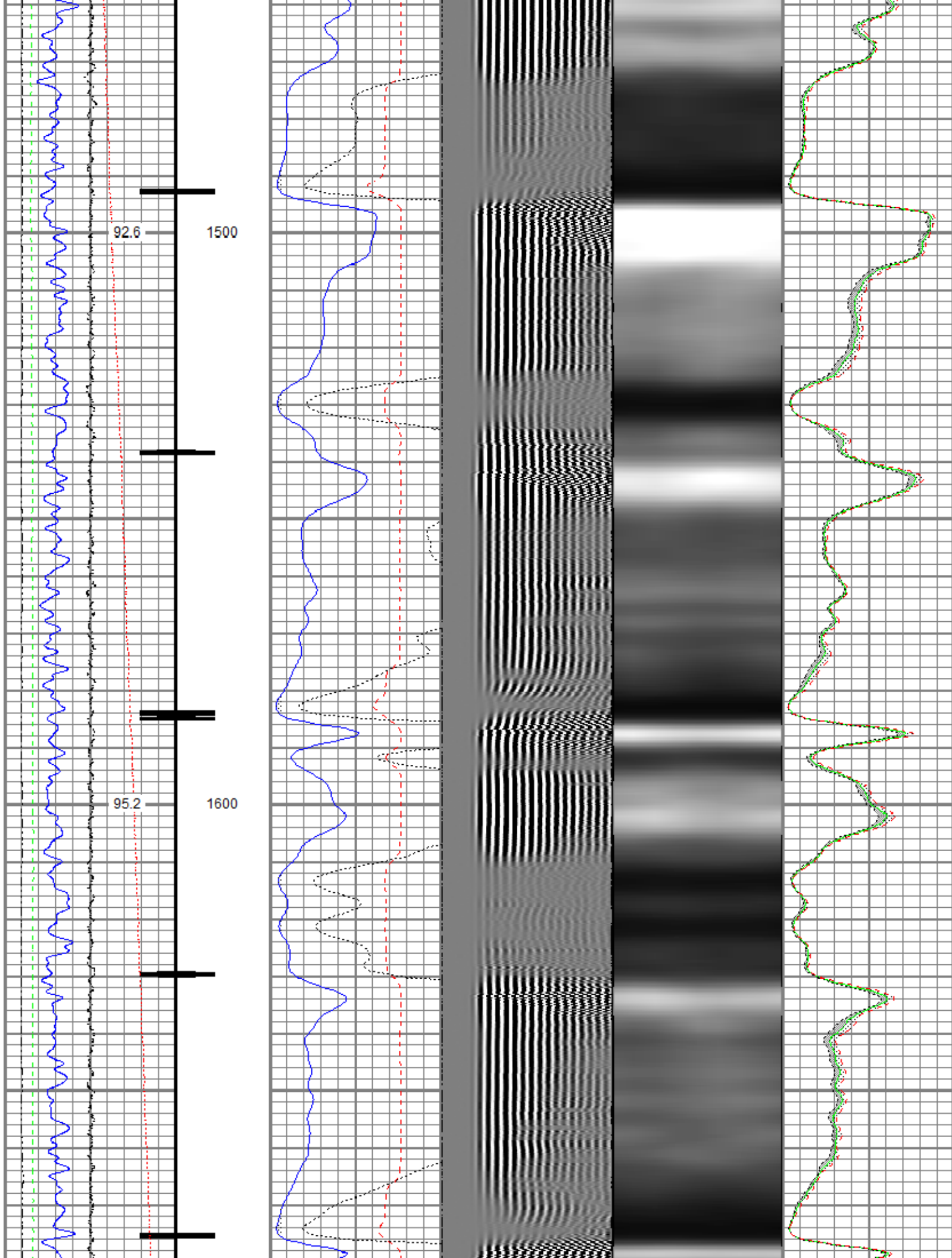


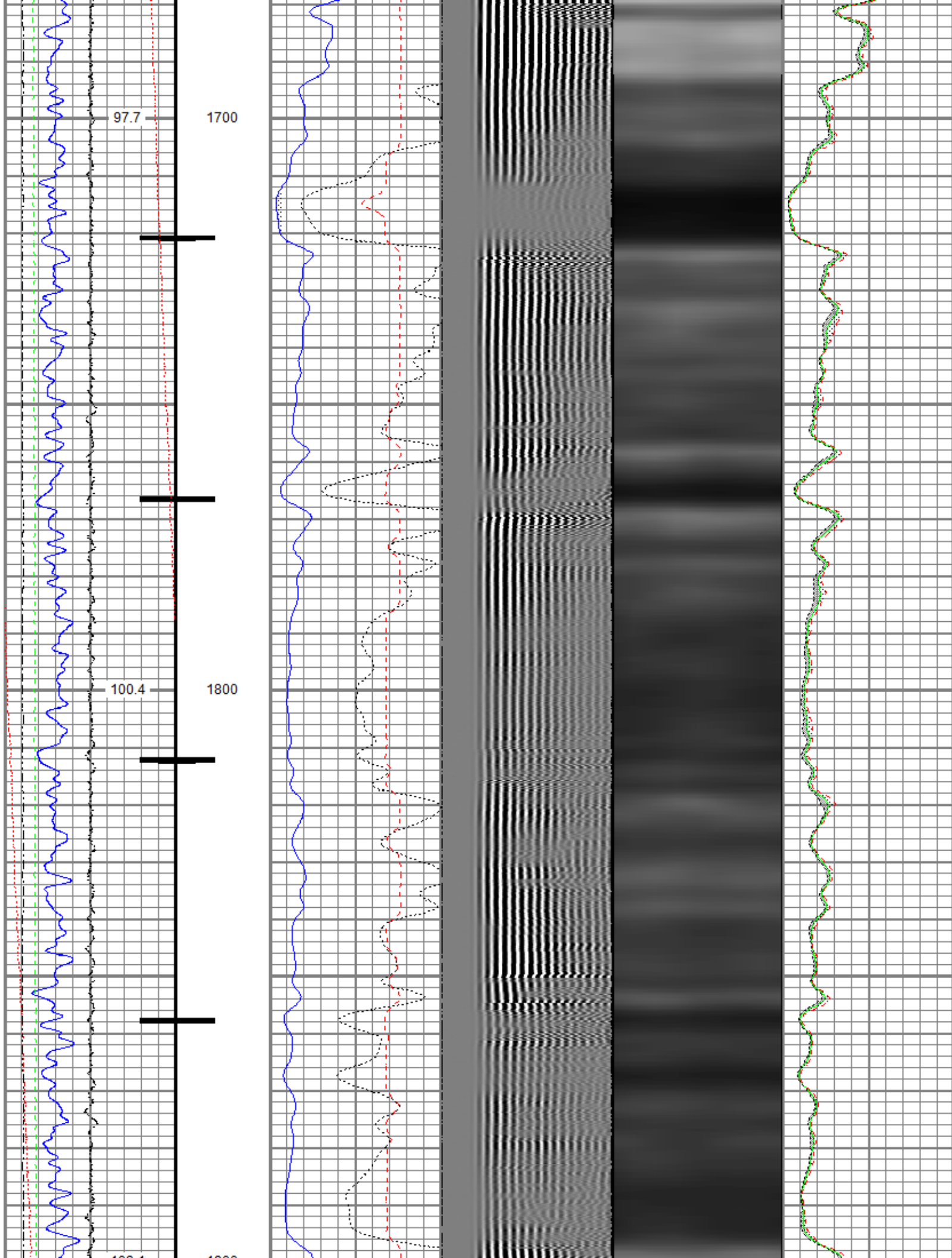












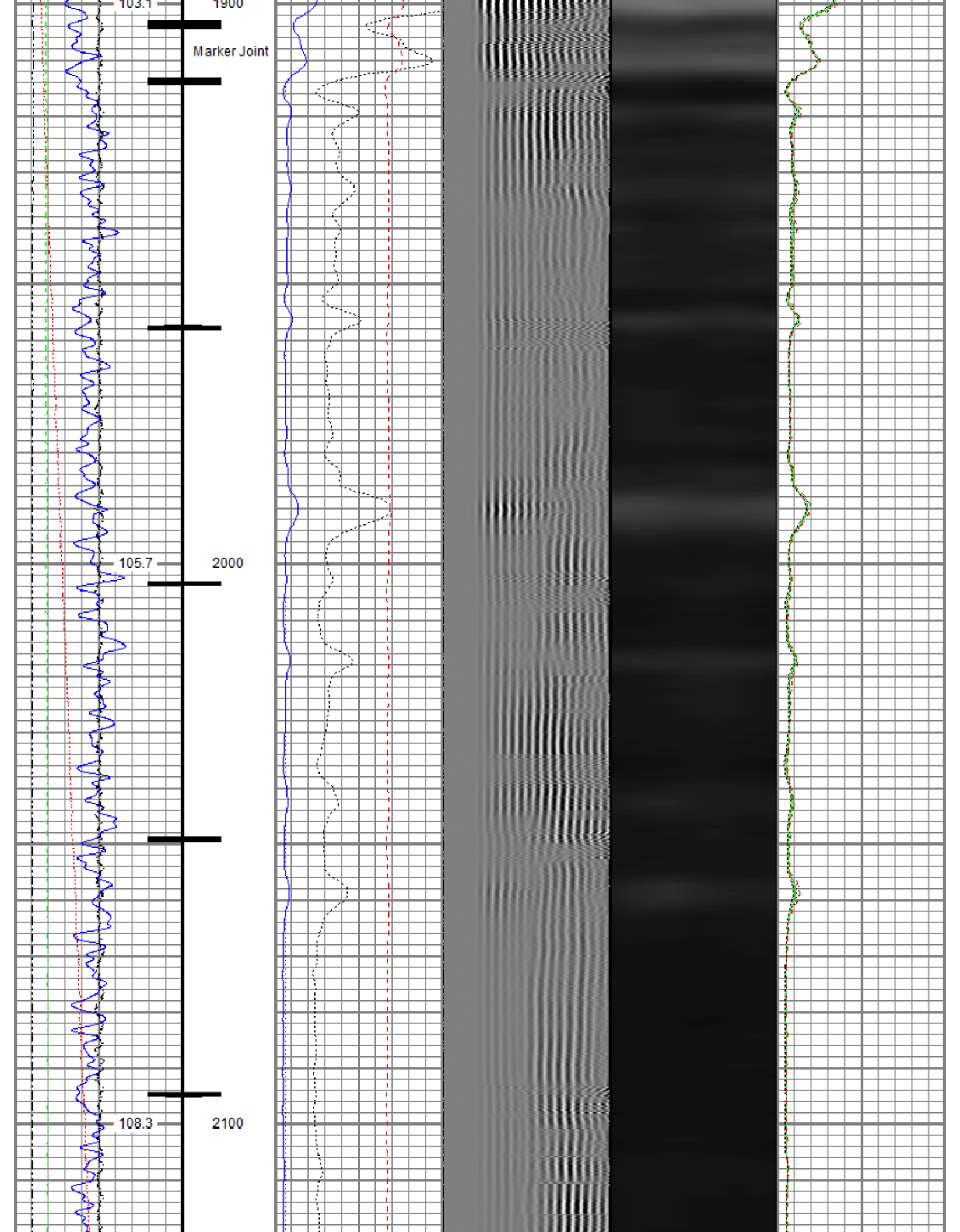
Marker Joint

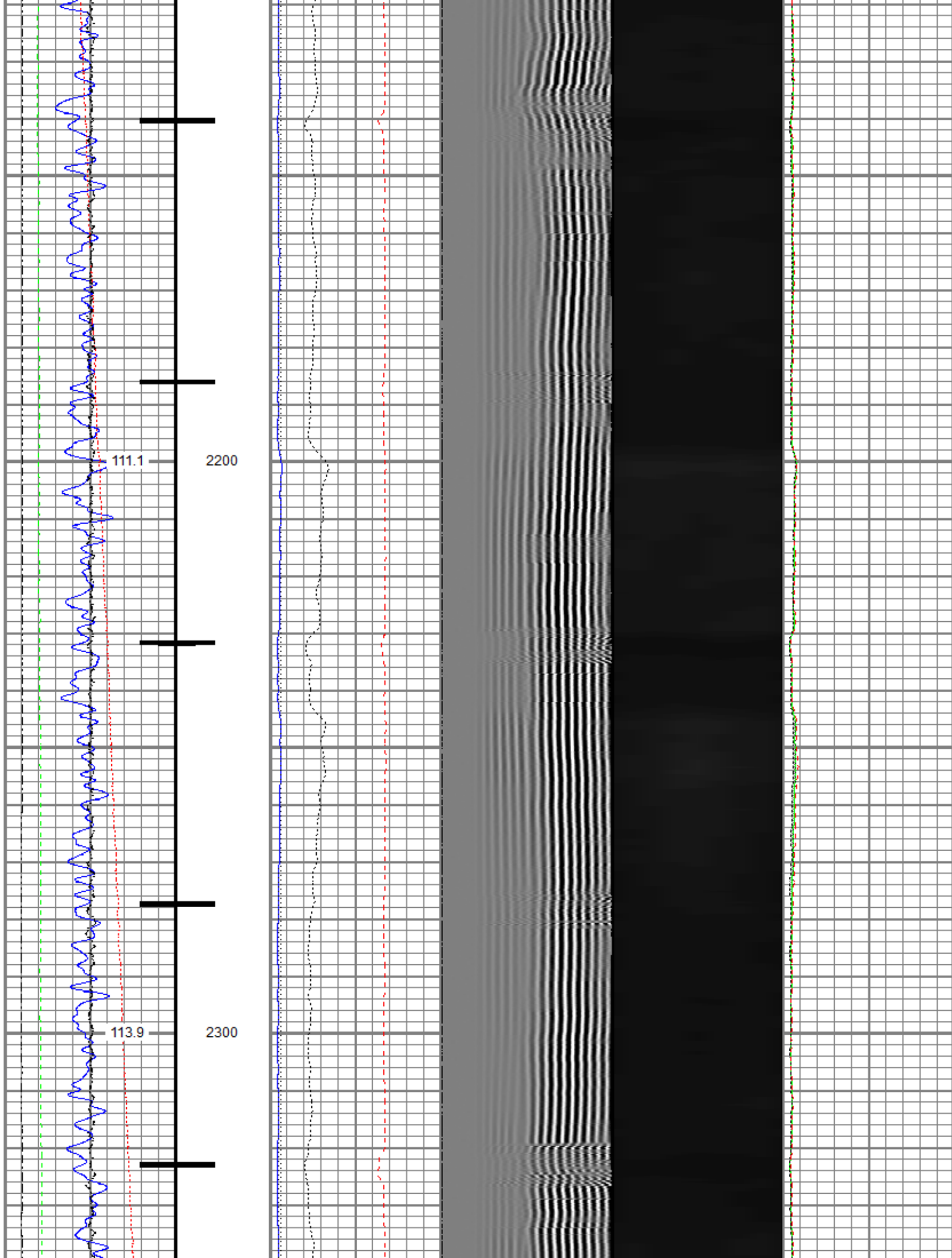
103.1

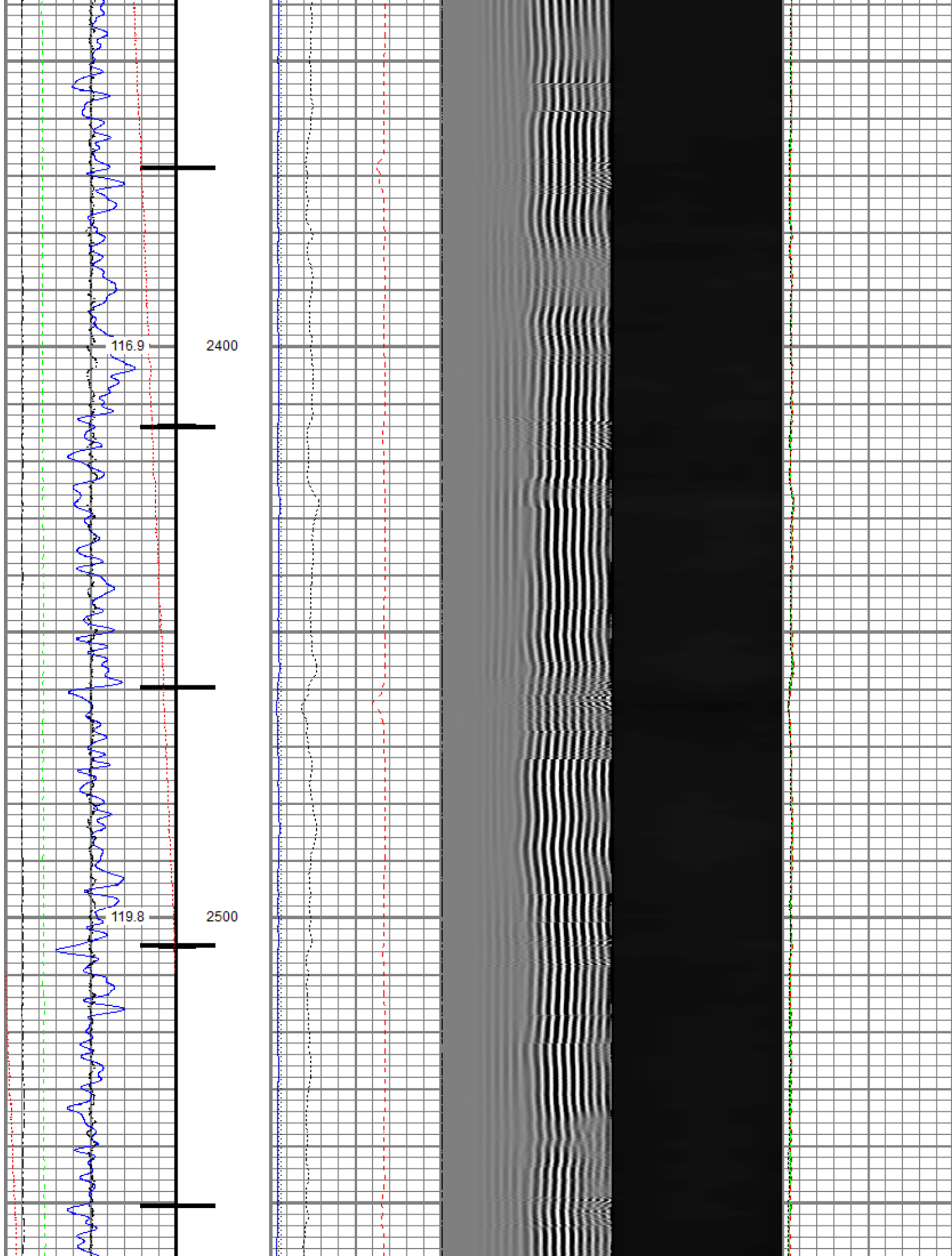
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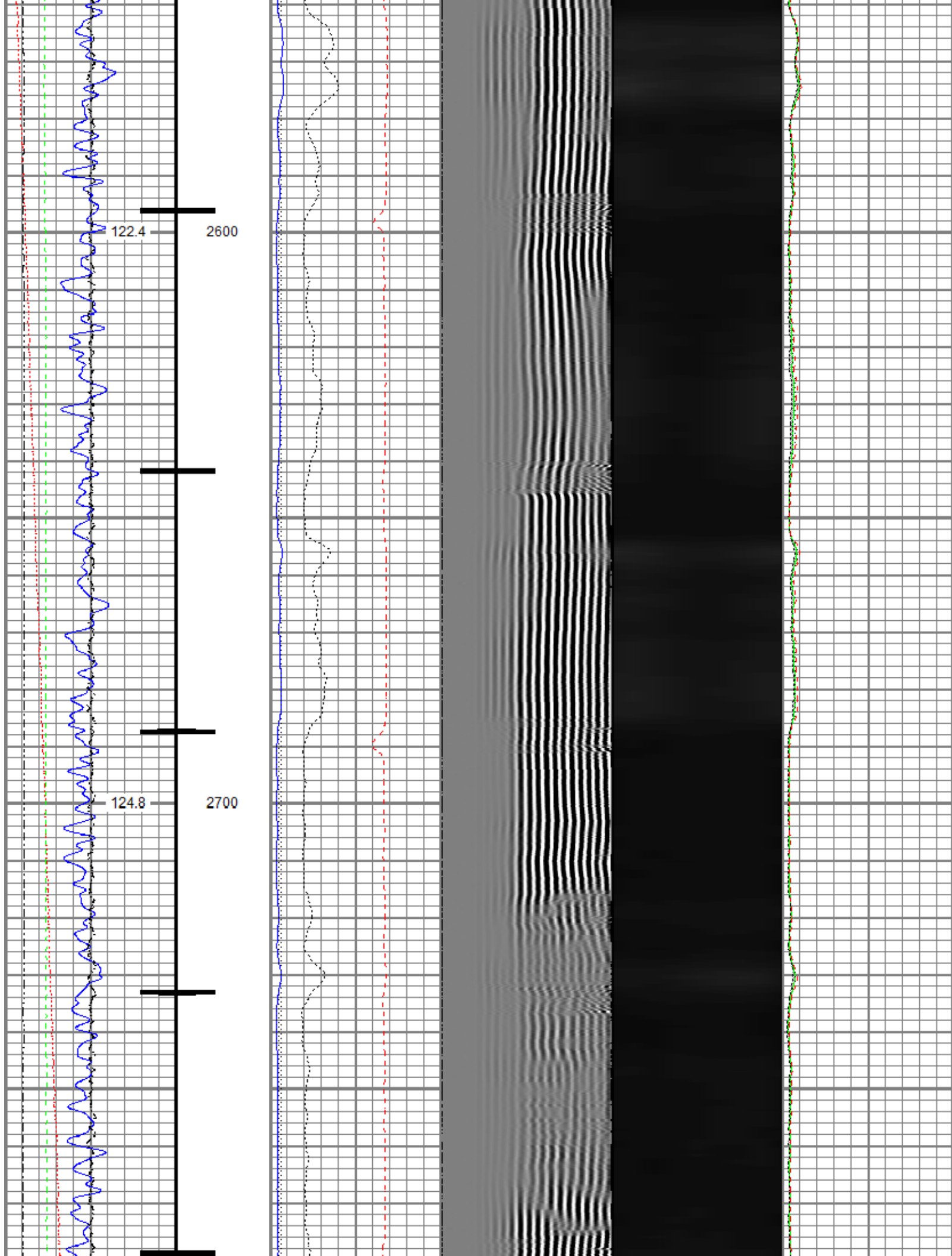
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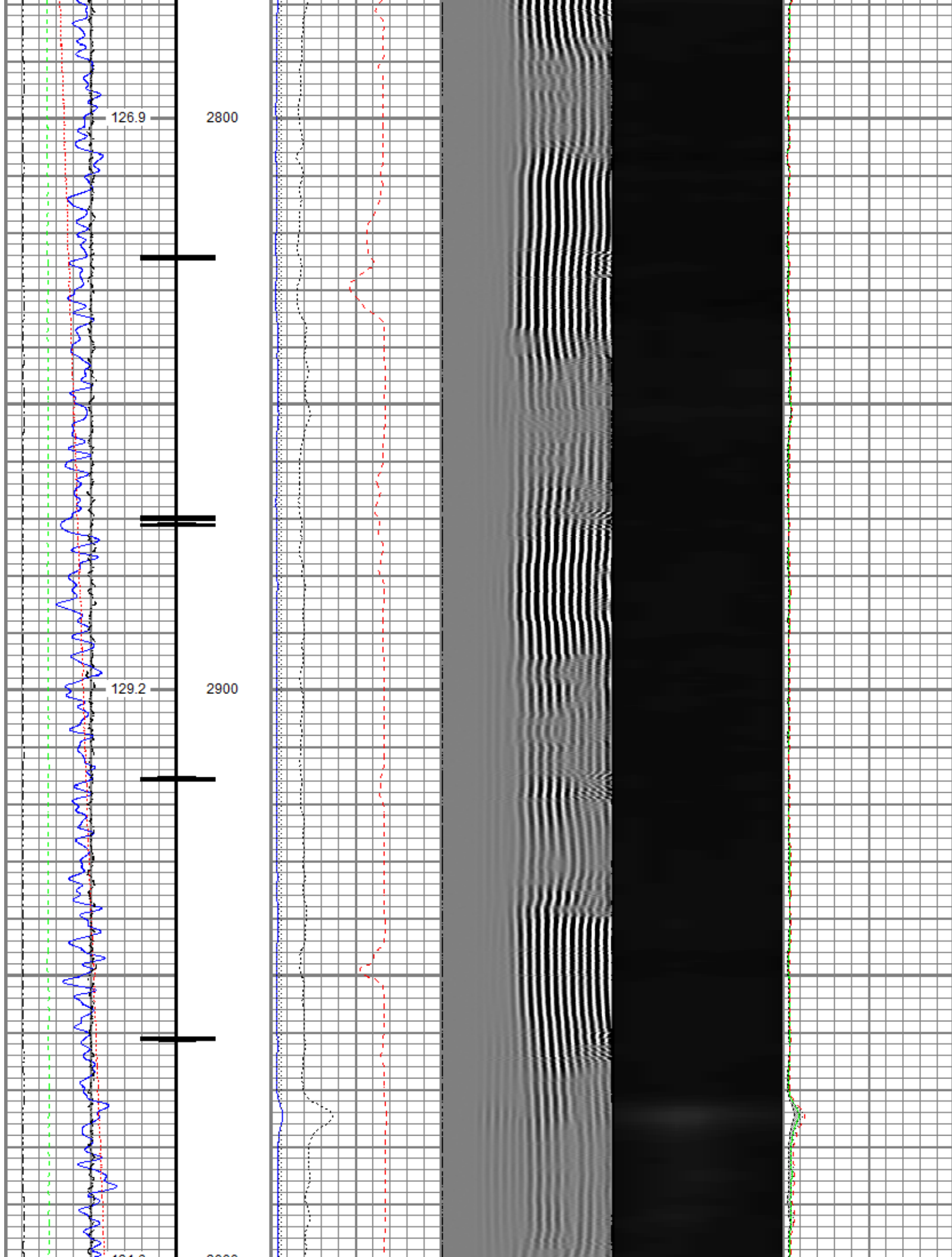
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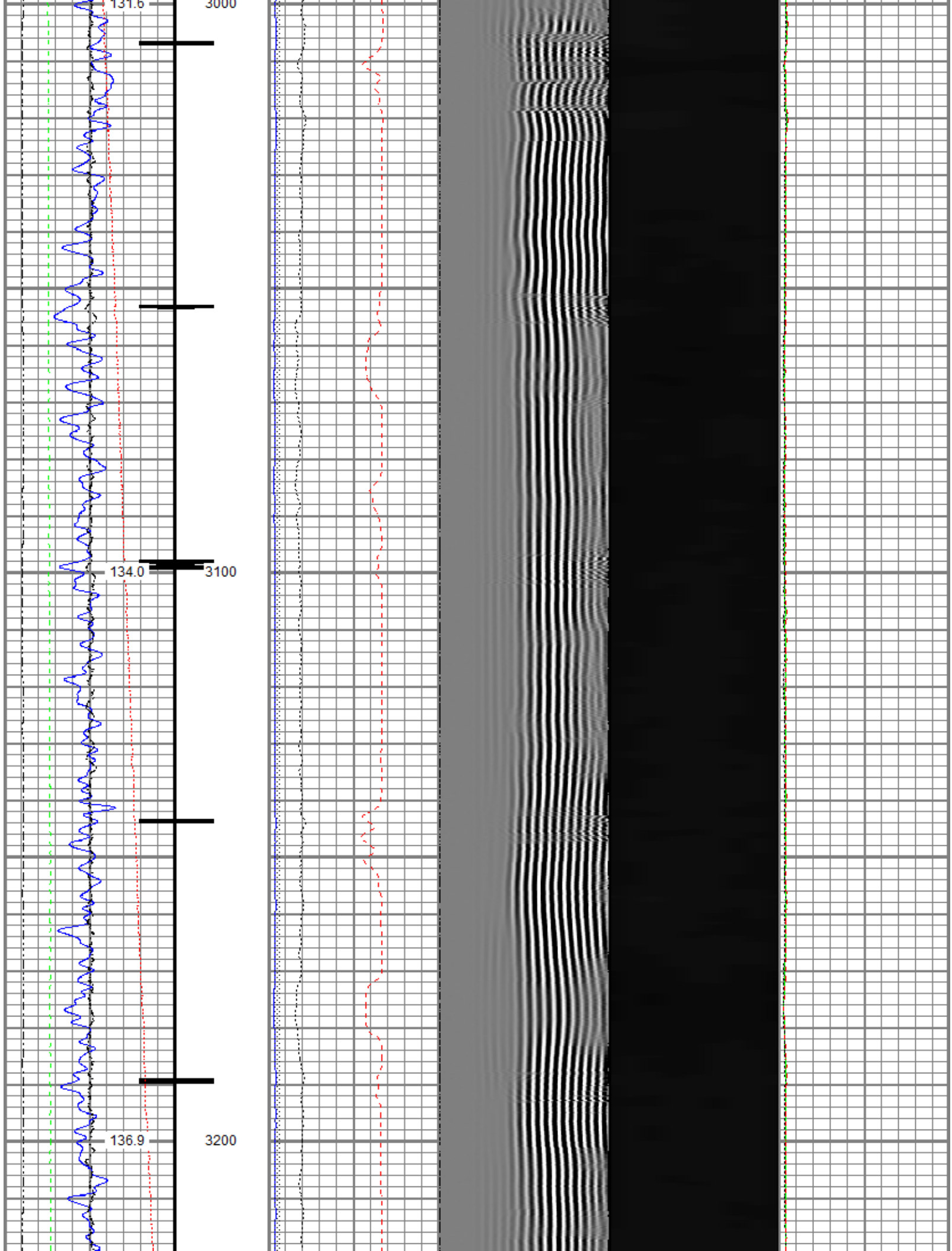


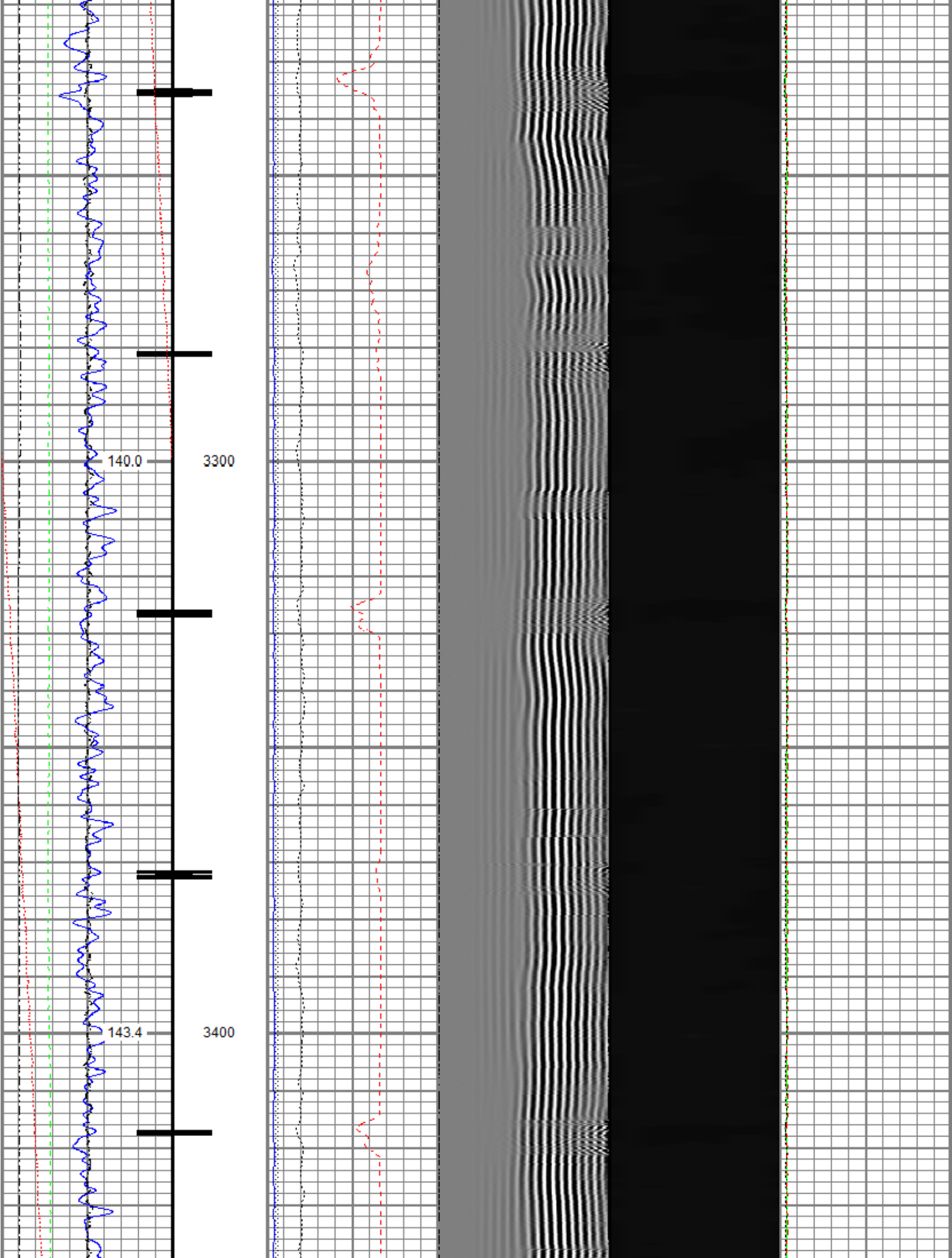


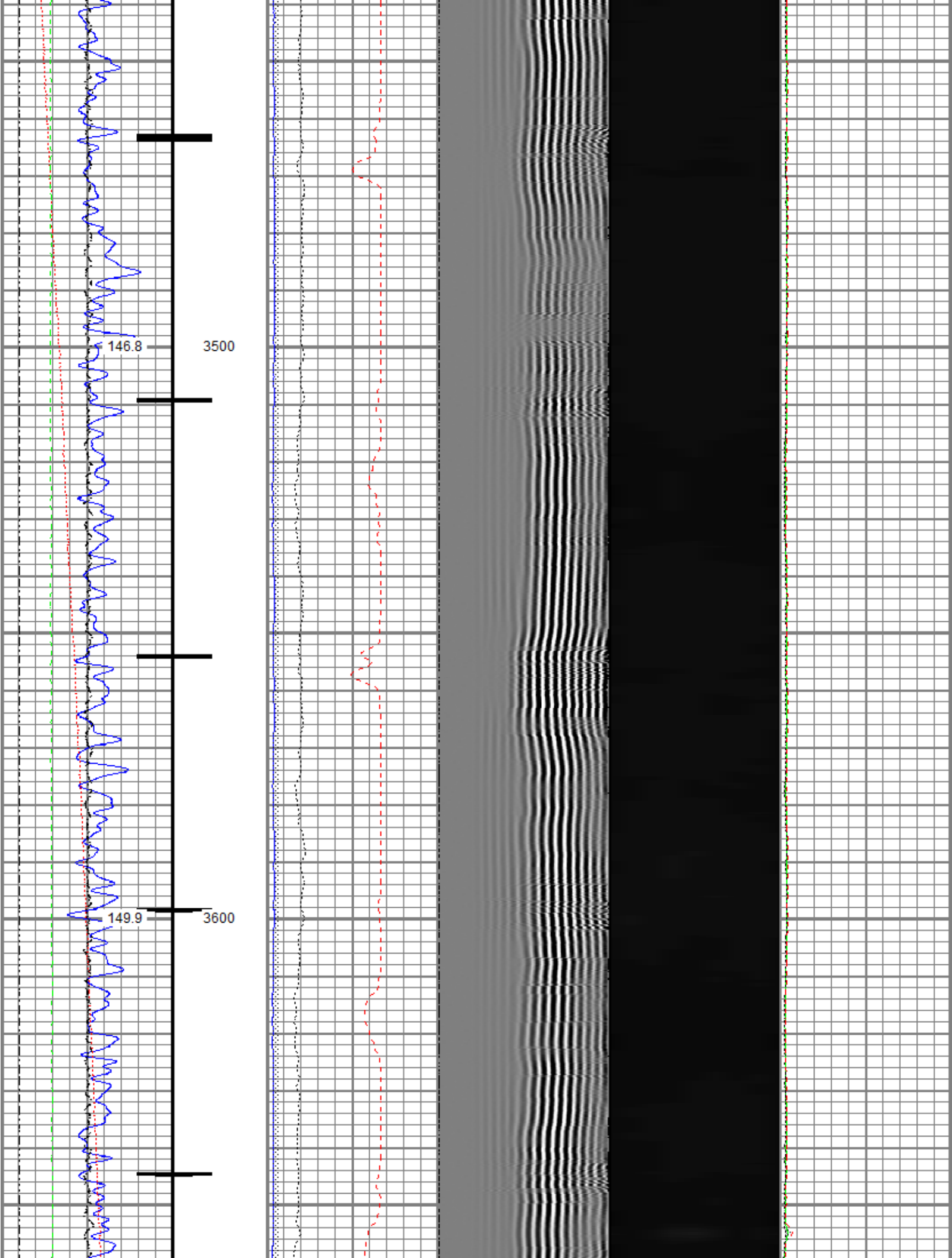


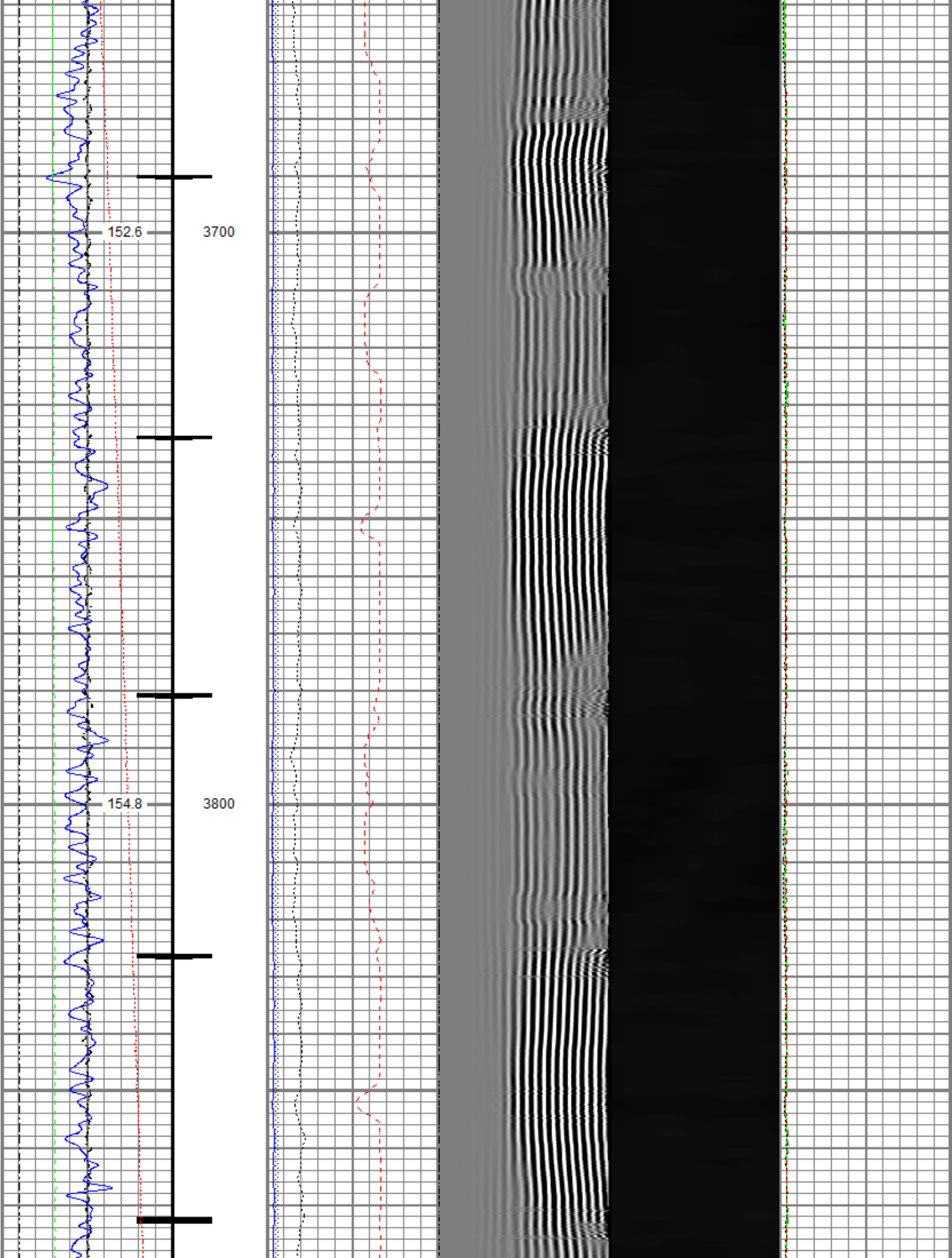


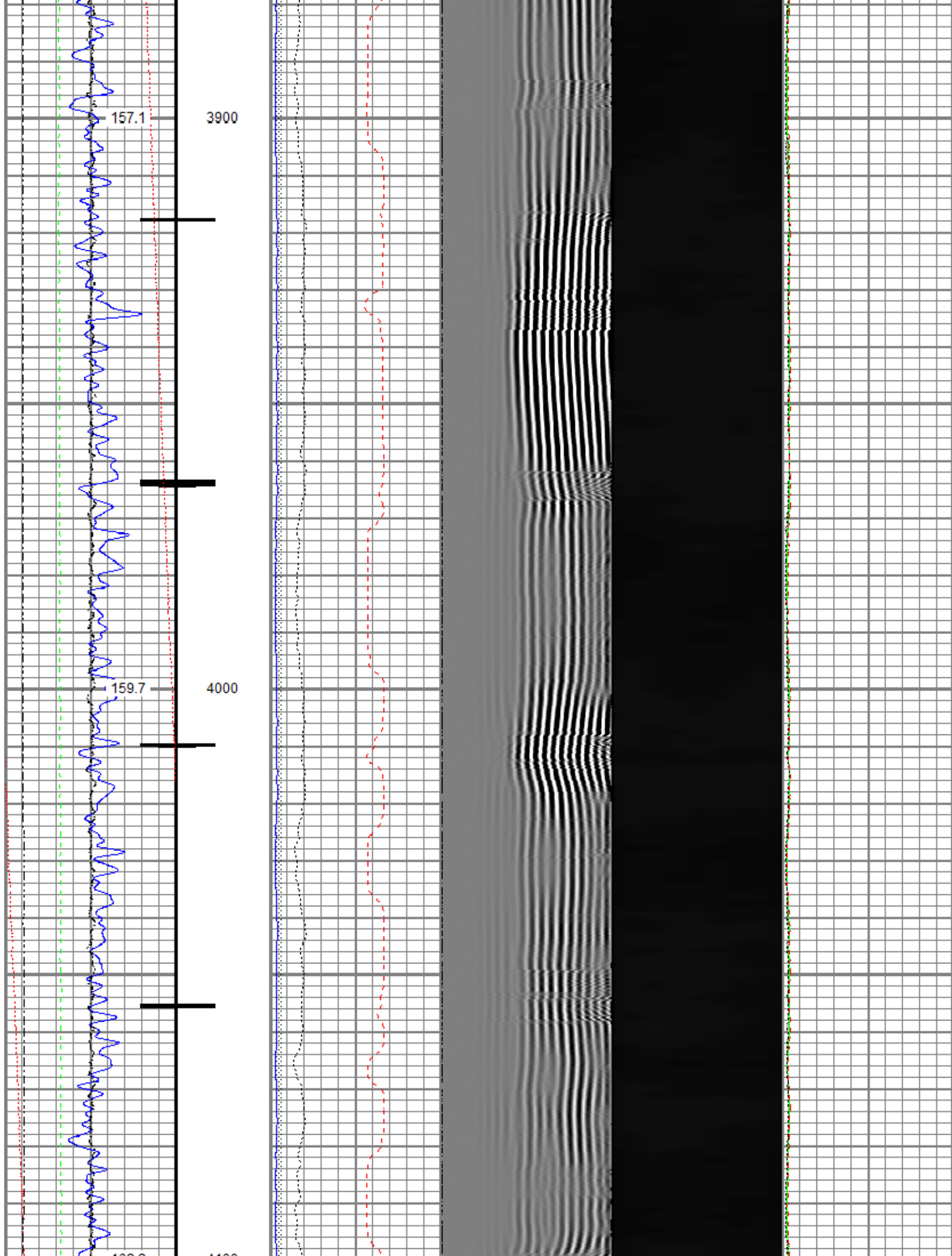


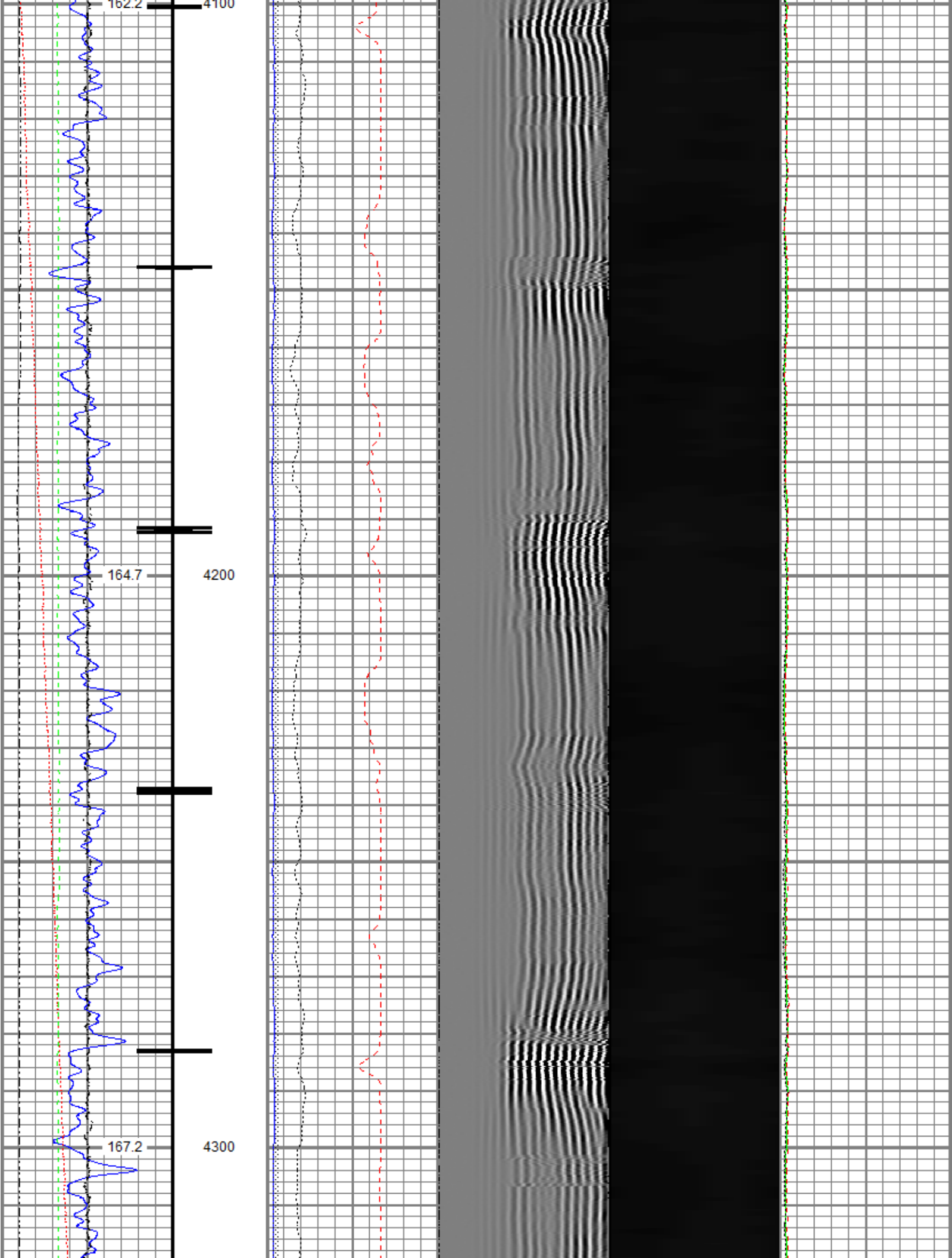


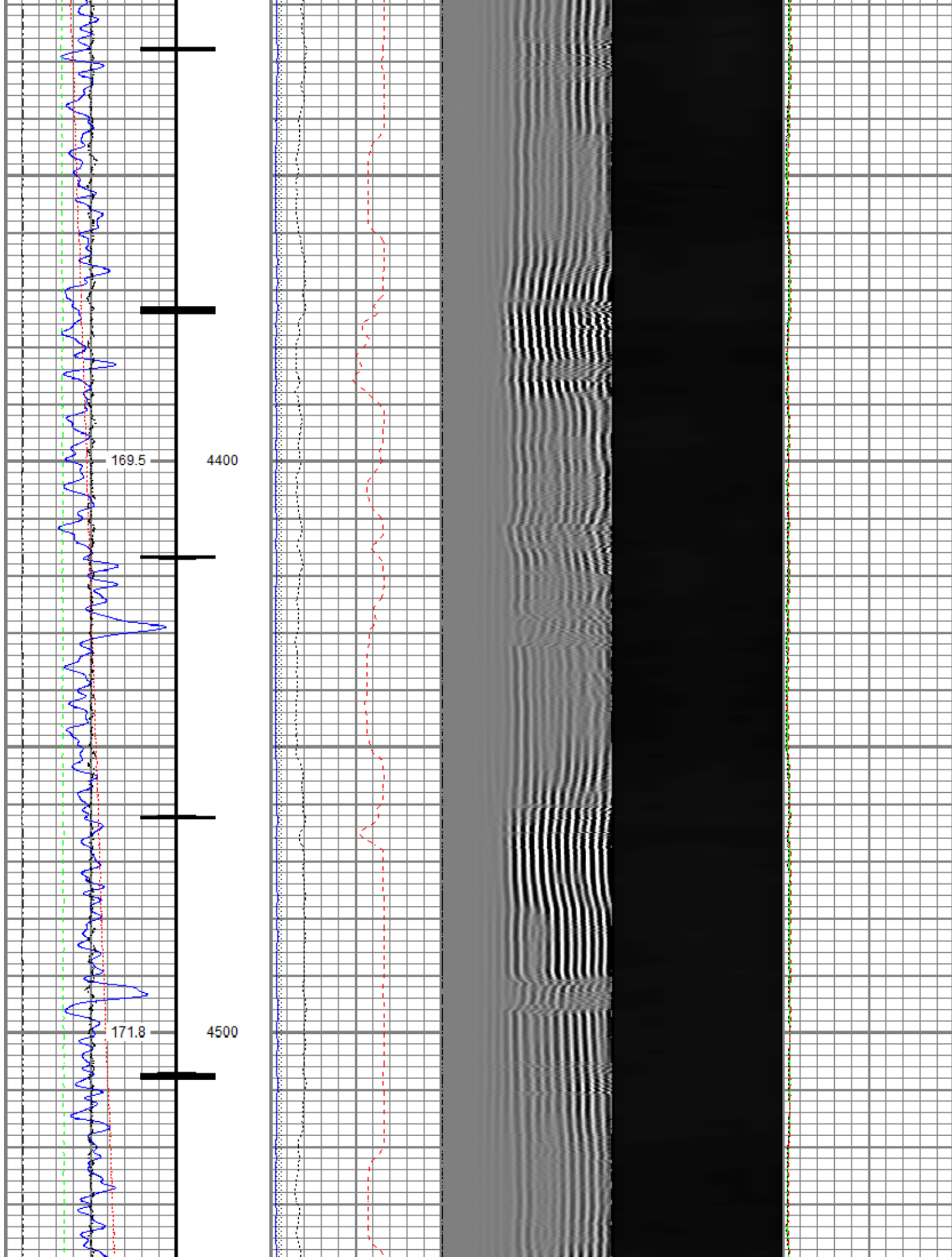


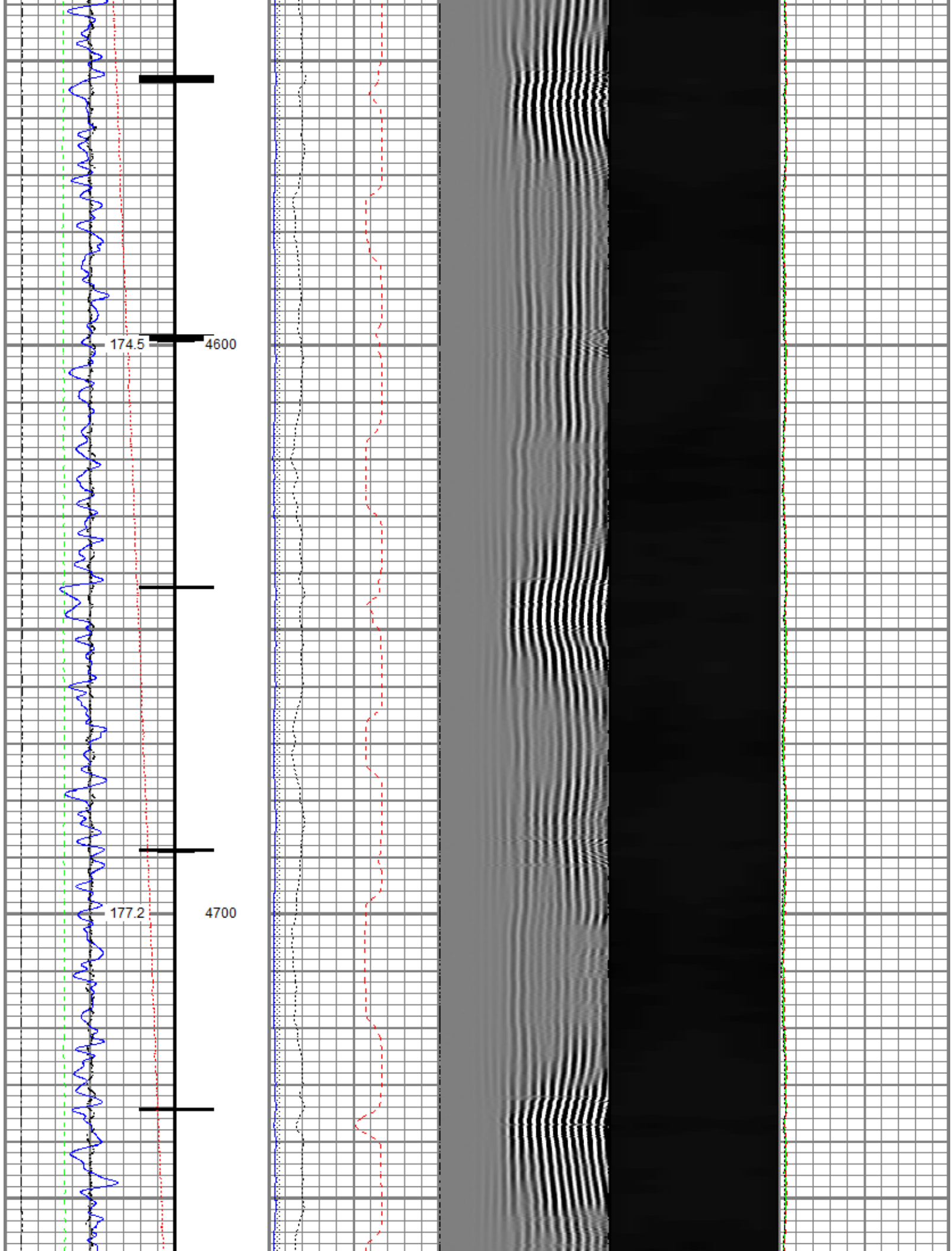


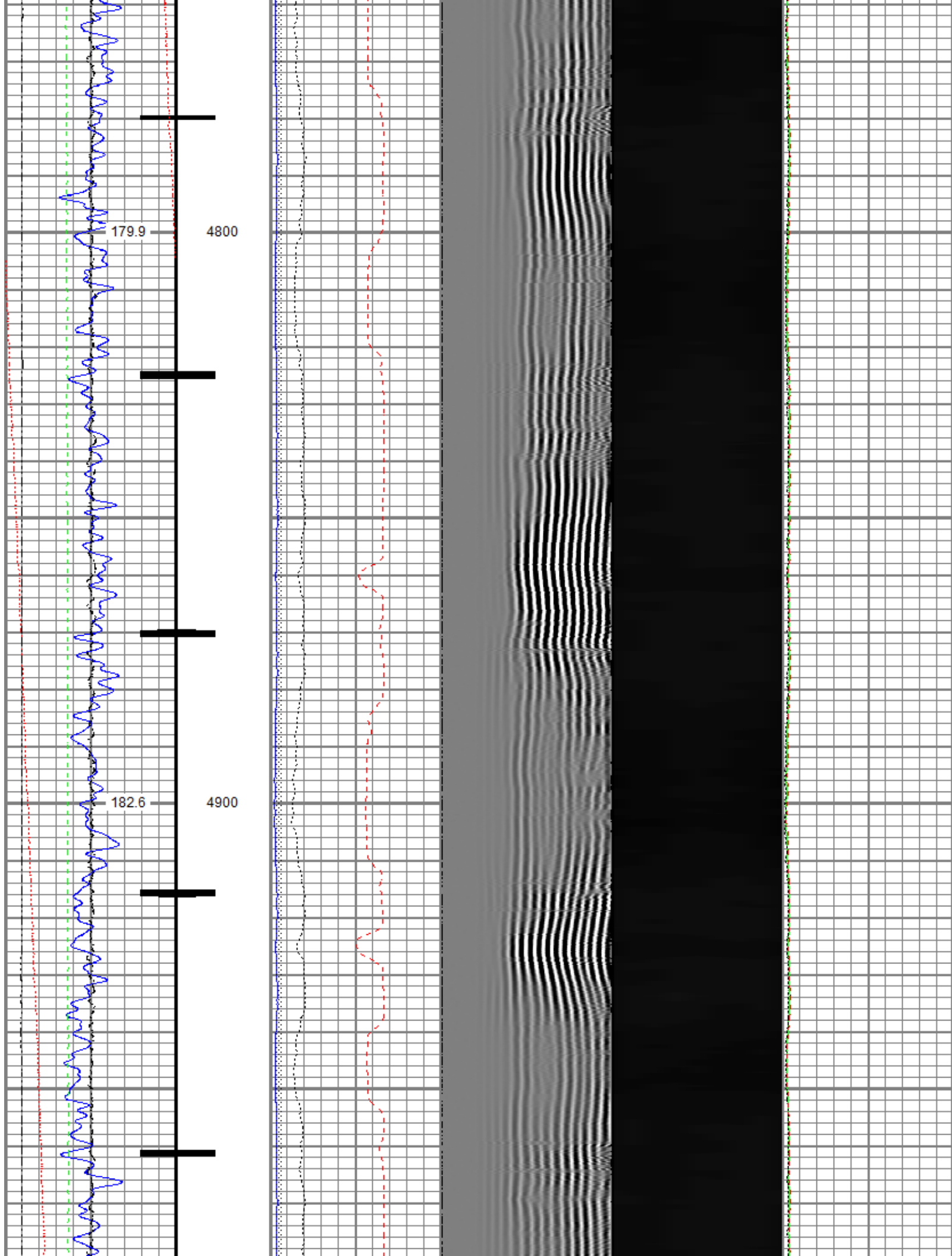


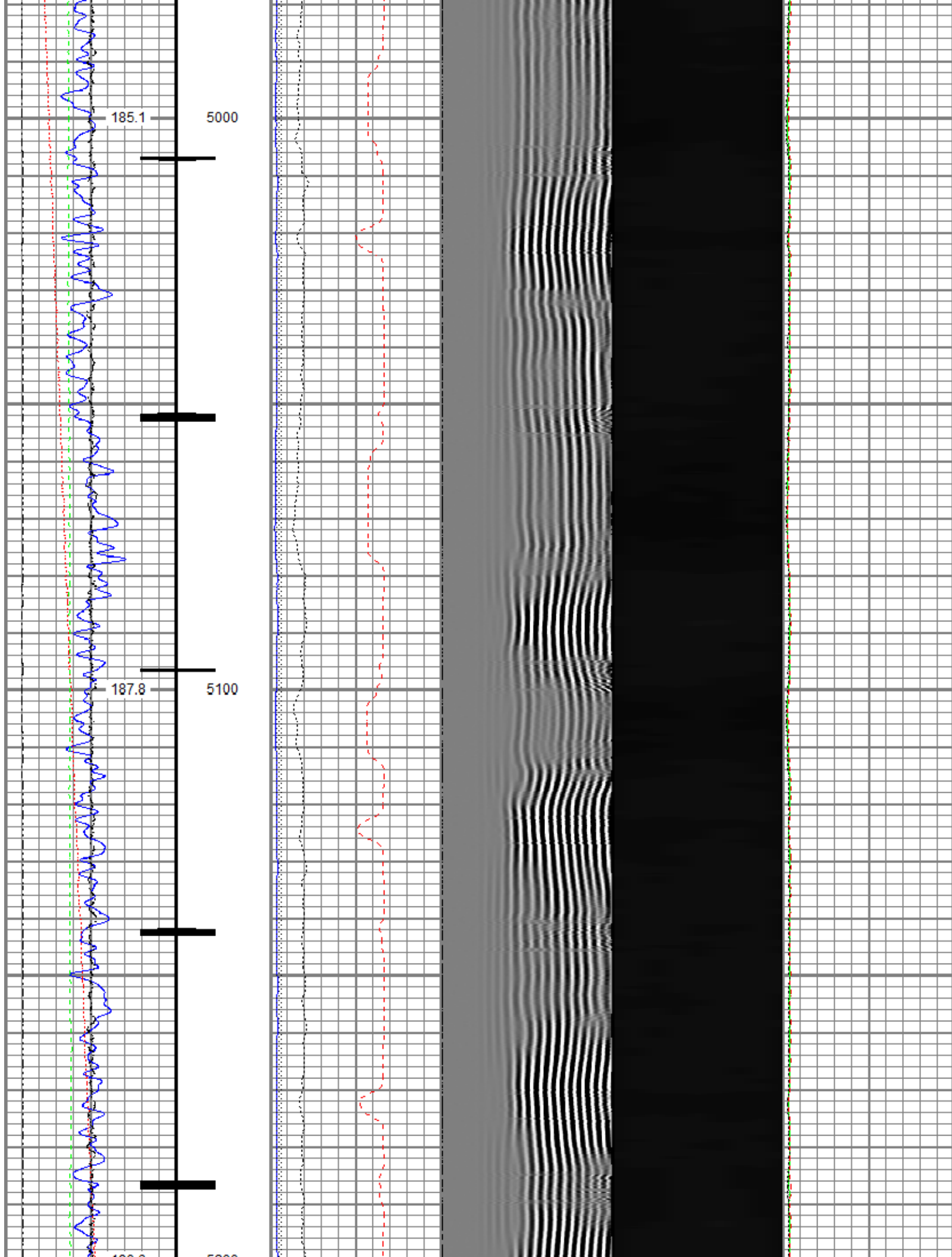


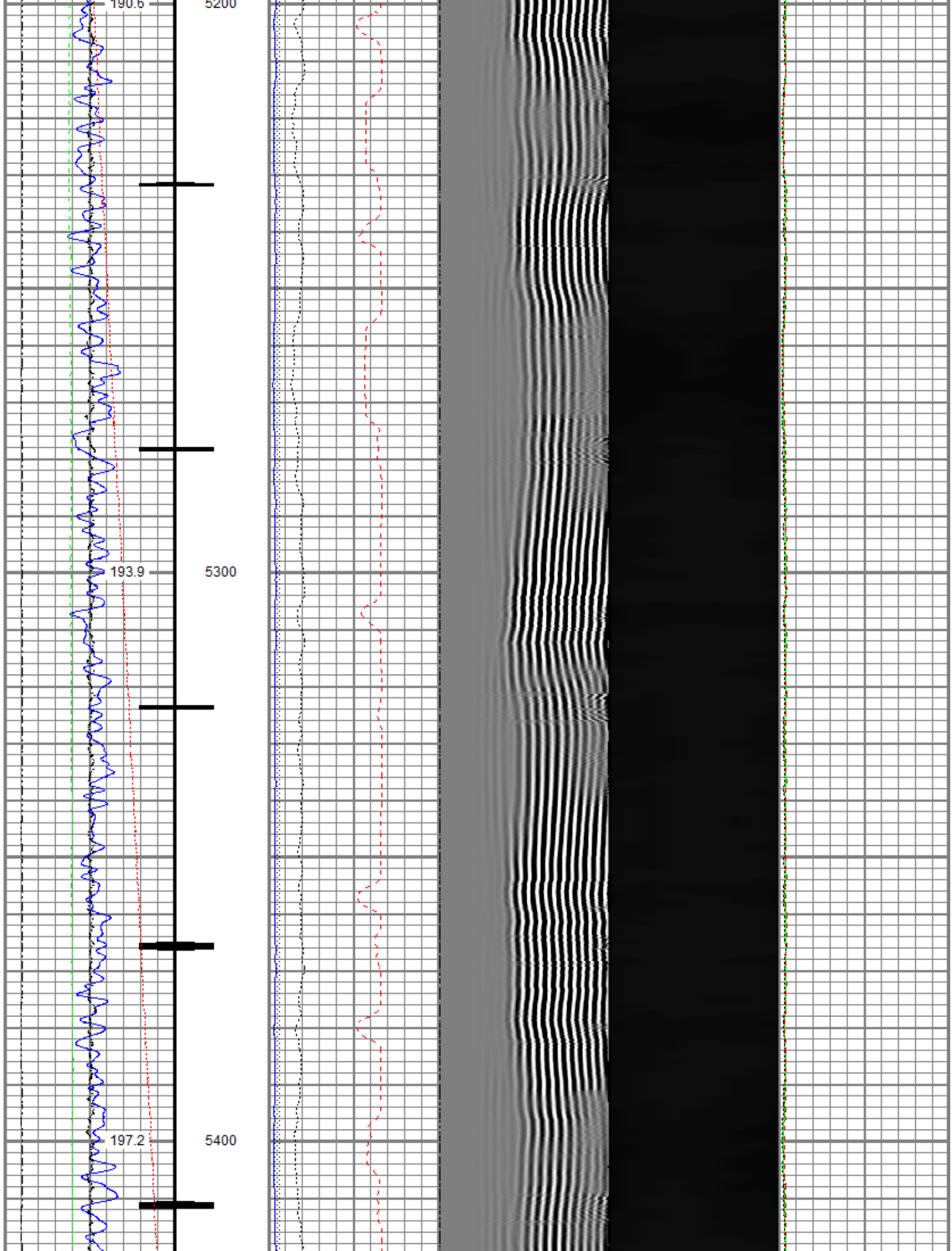


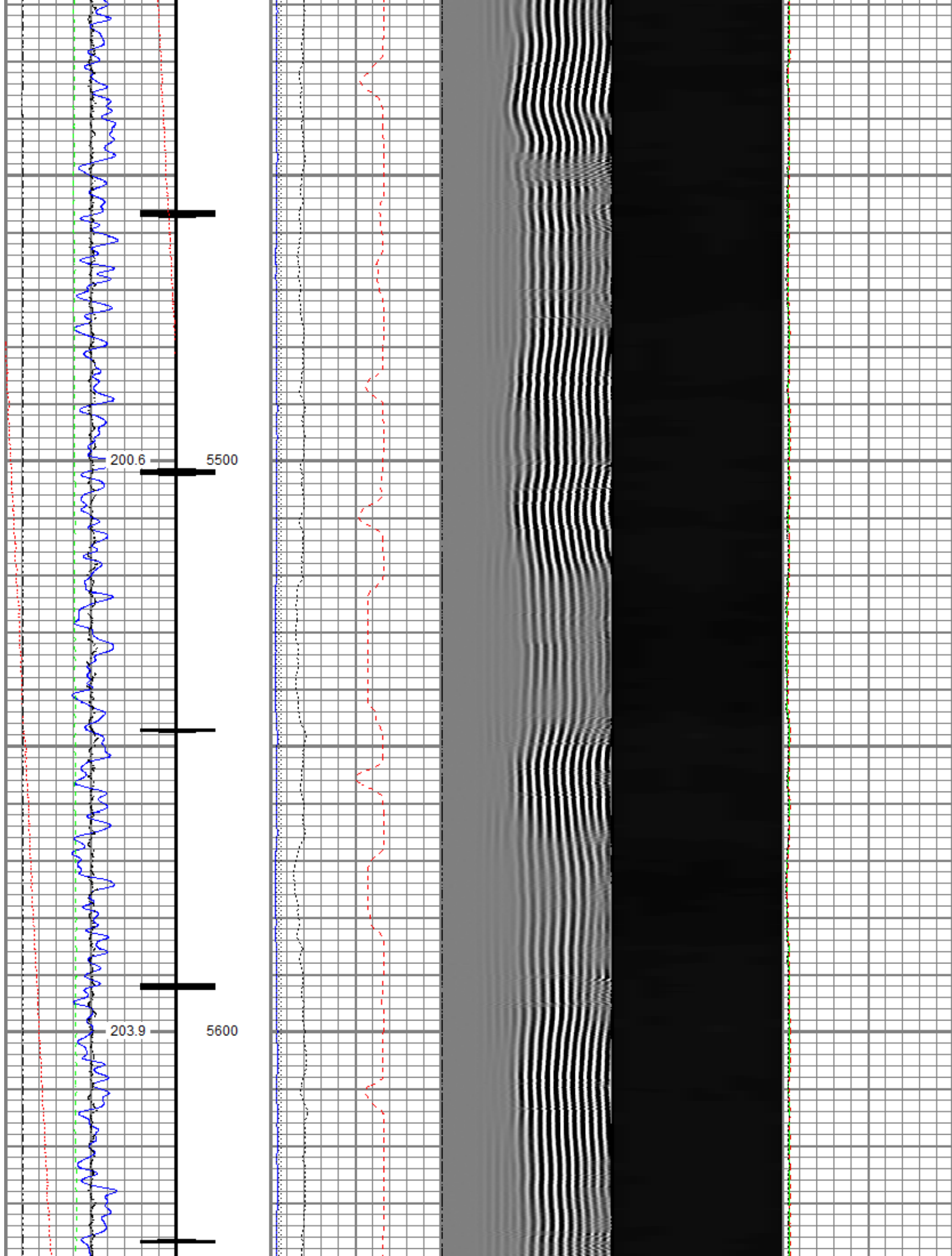


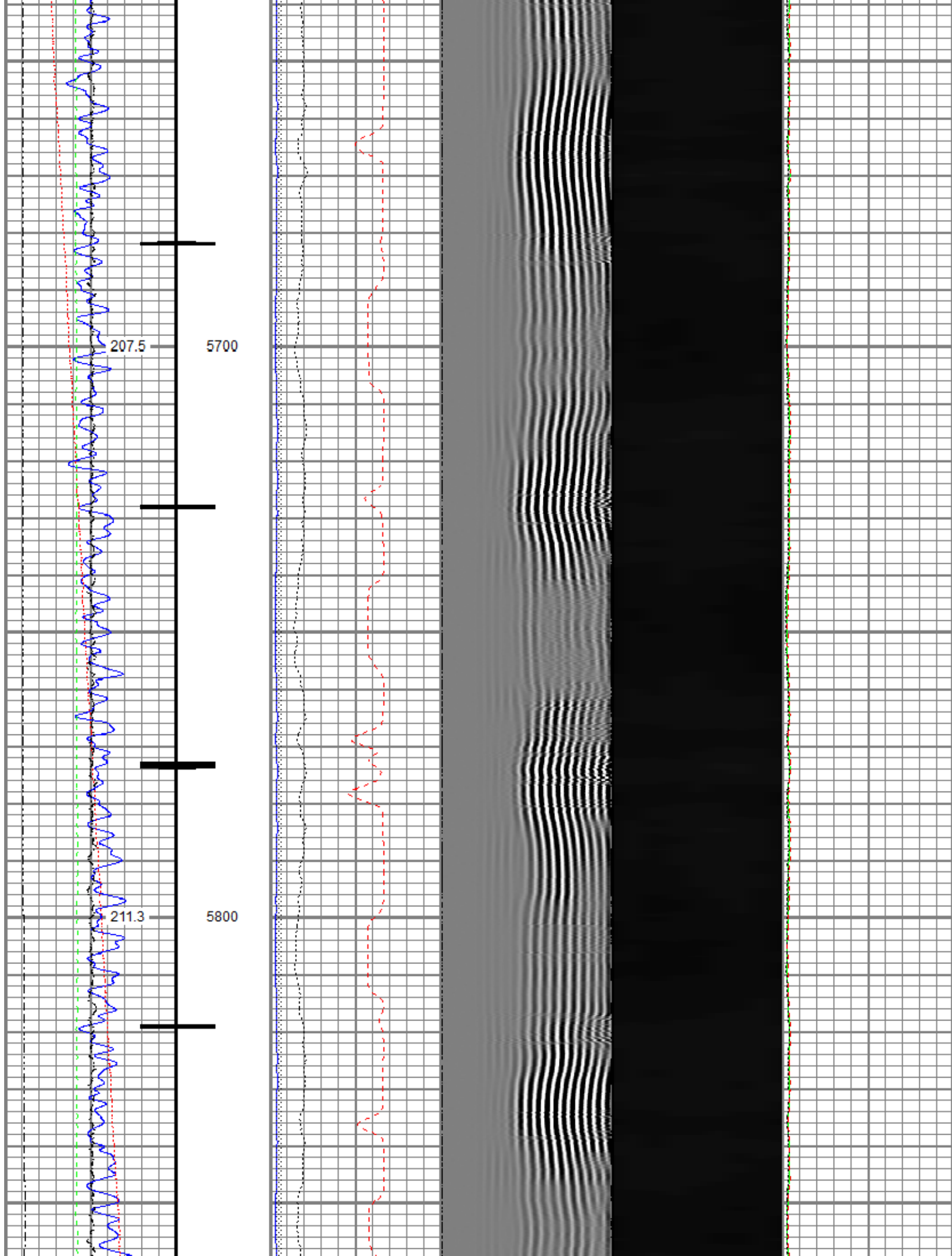


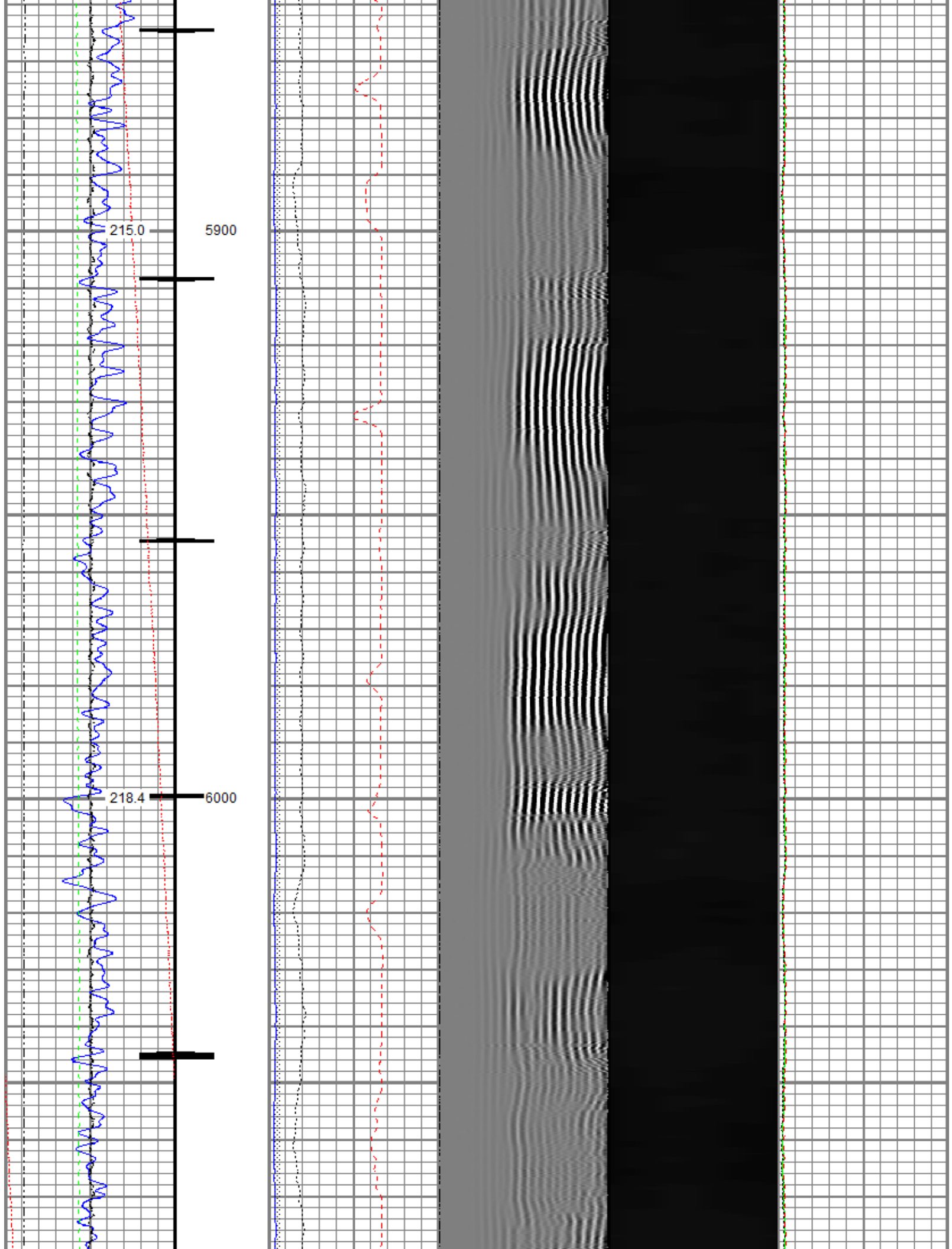


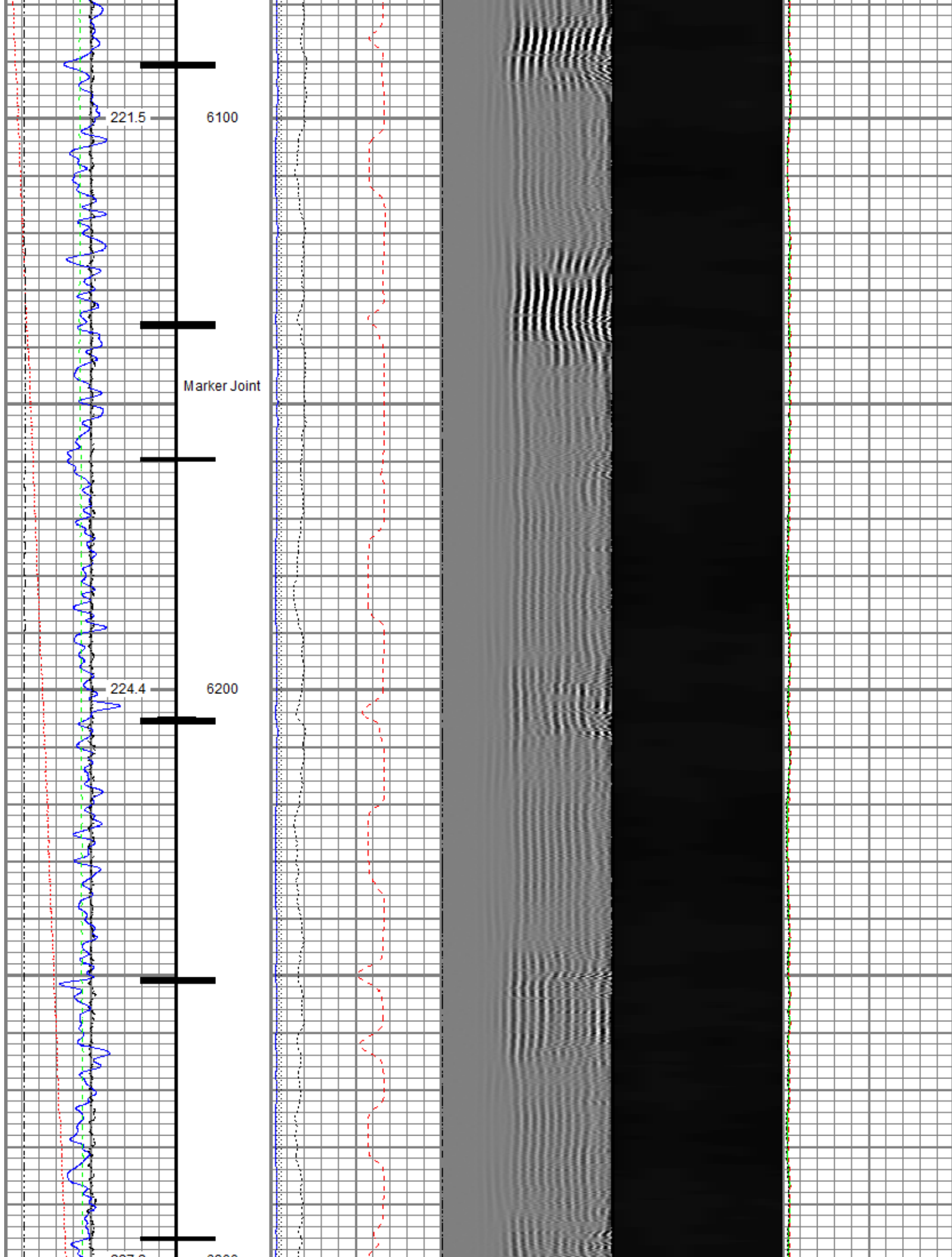


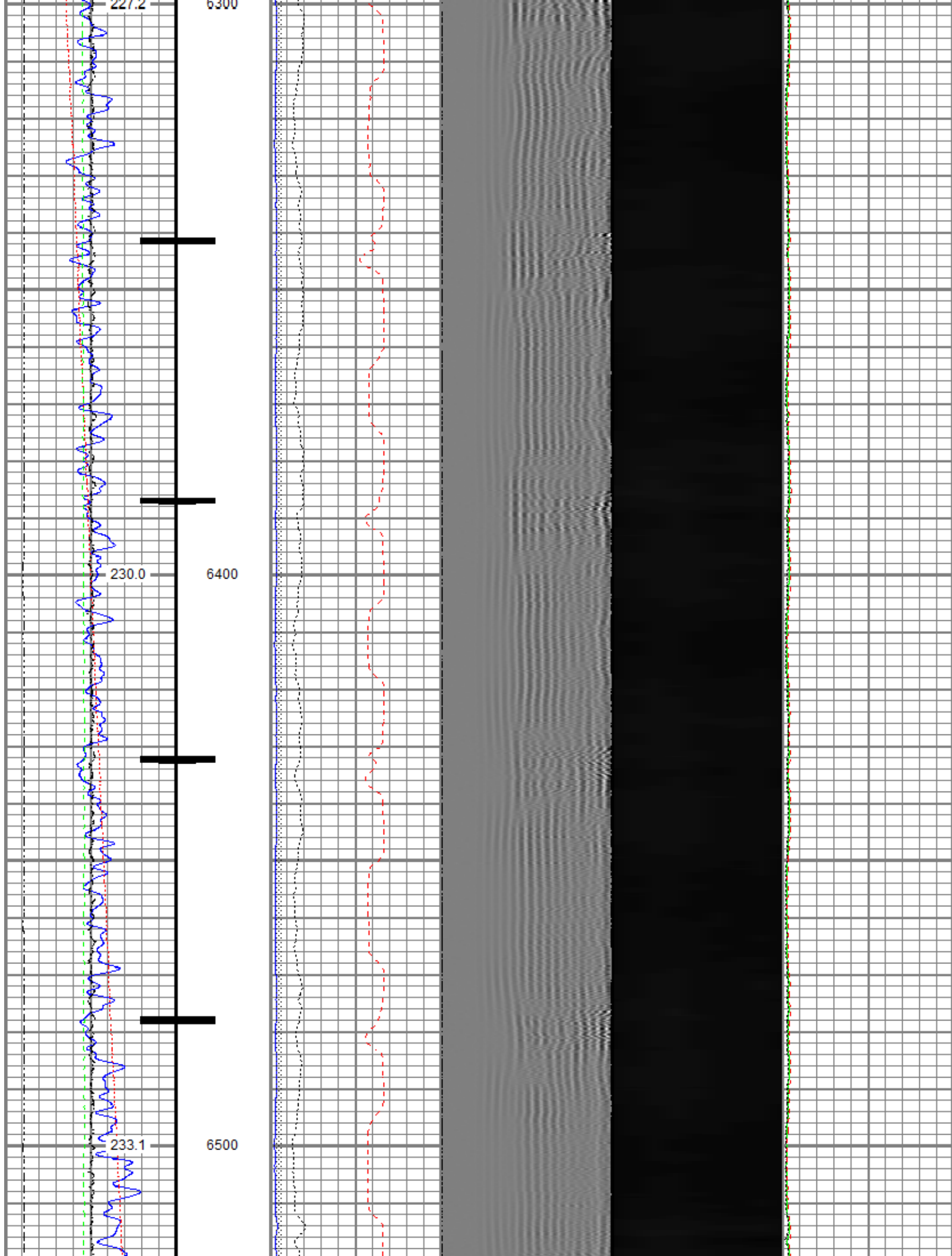


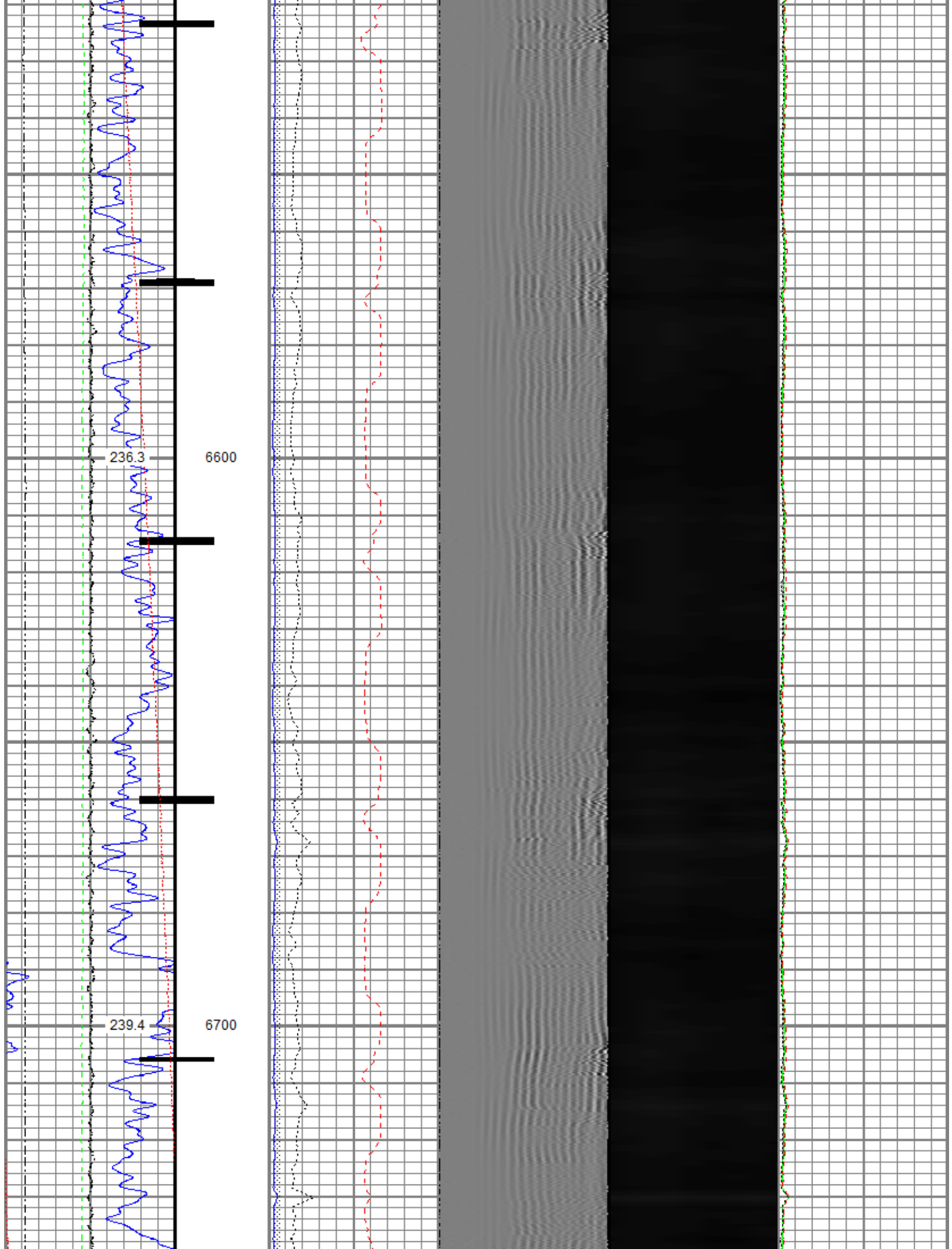


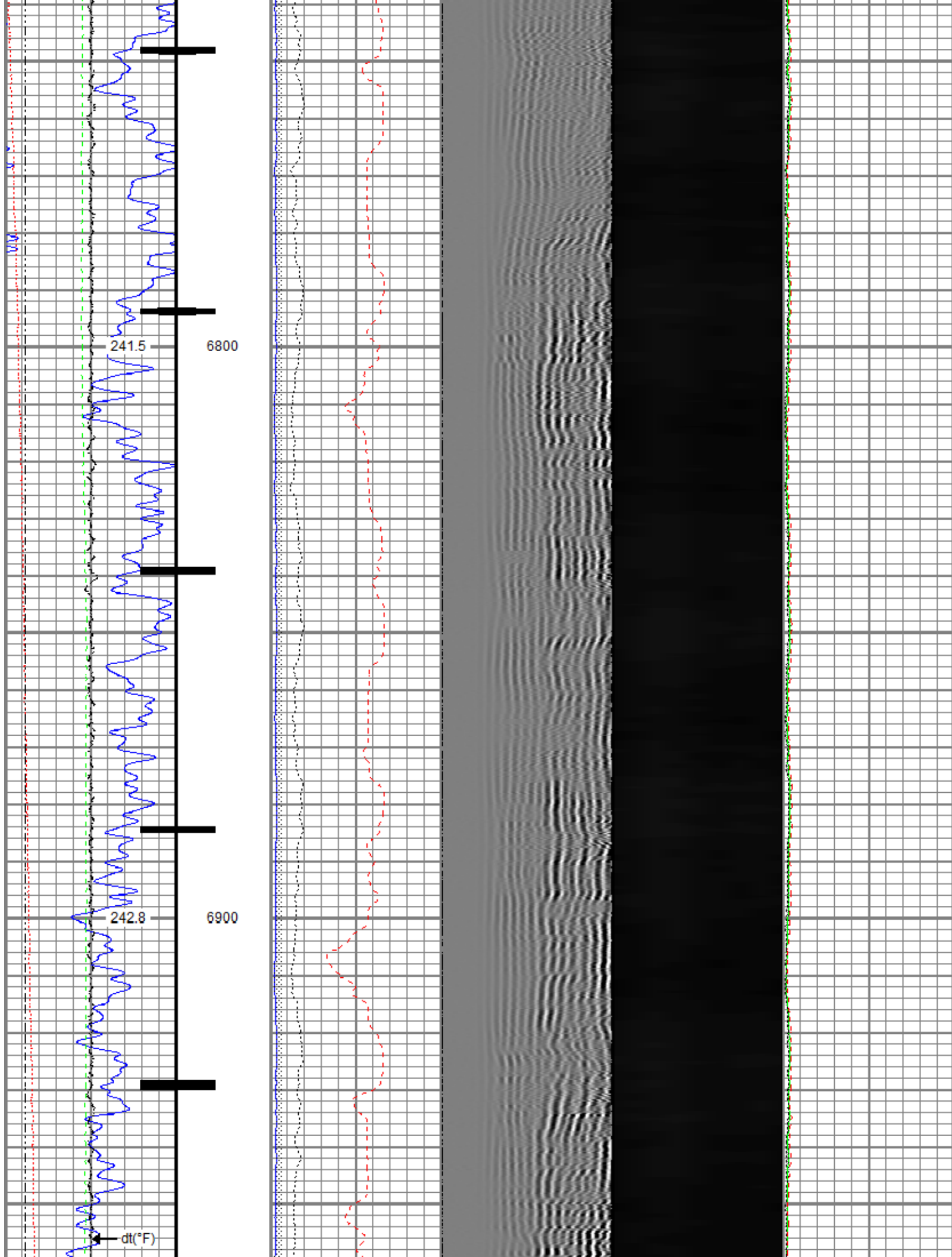


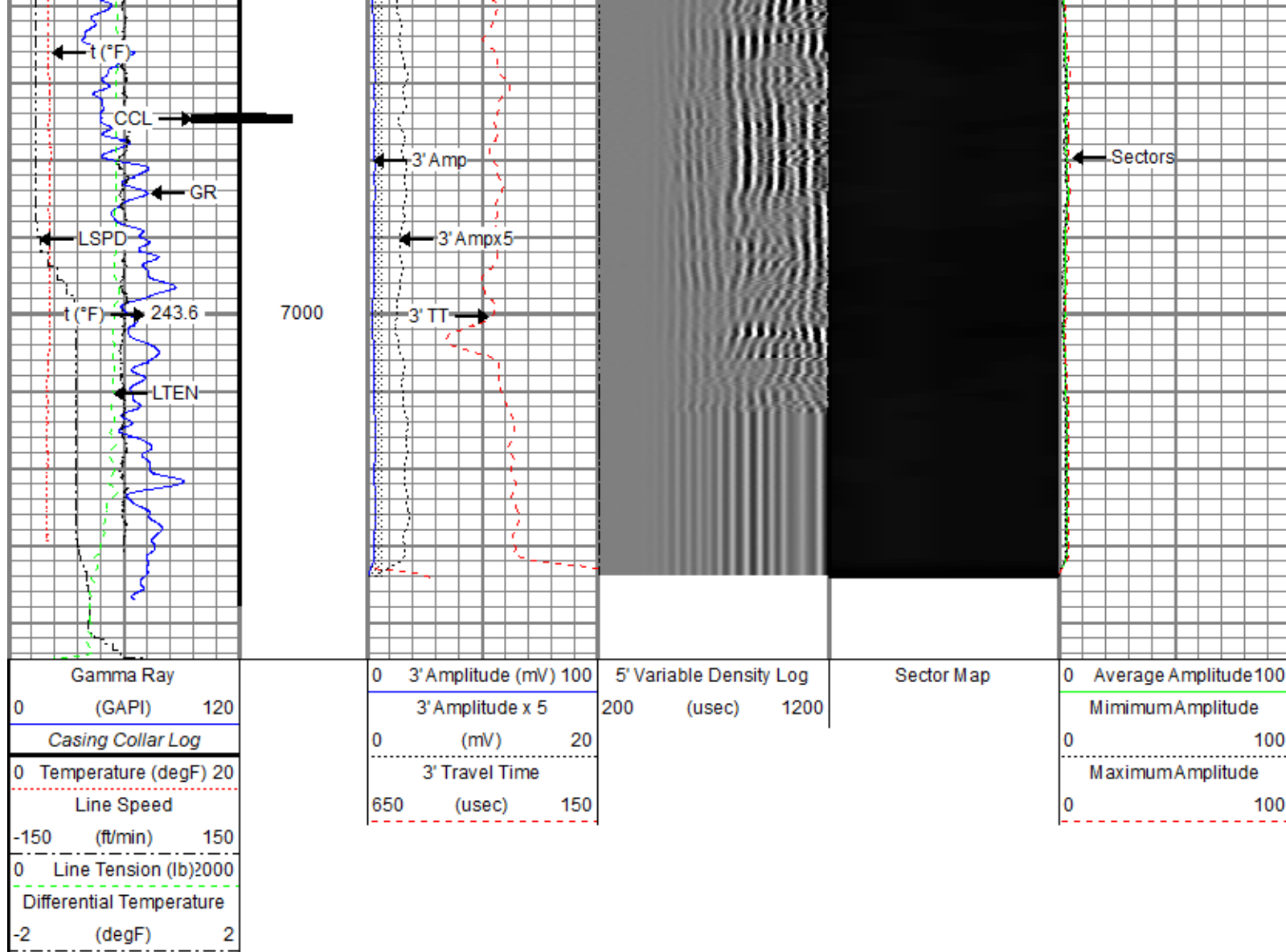








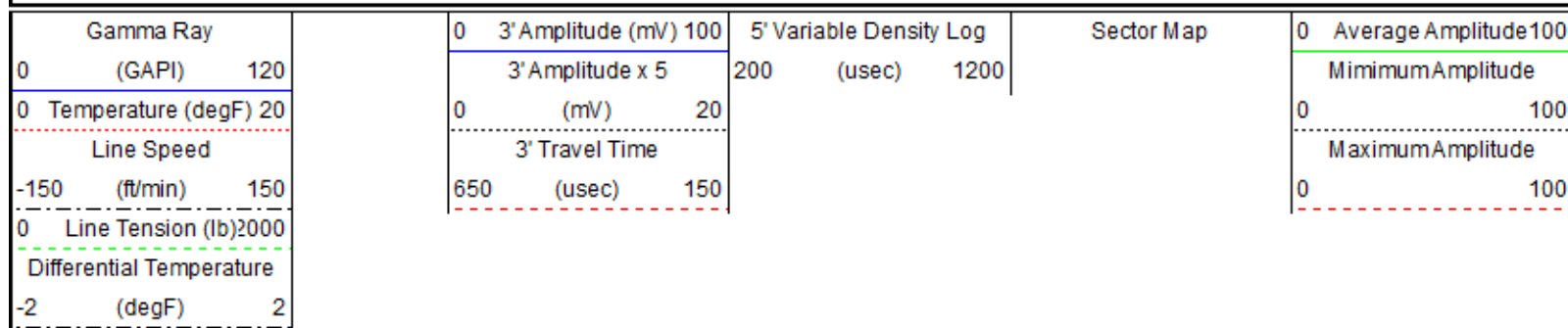




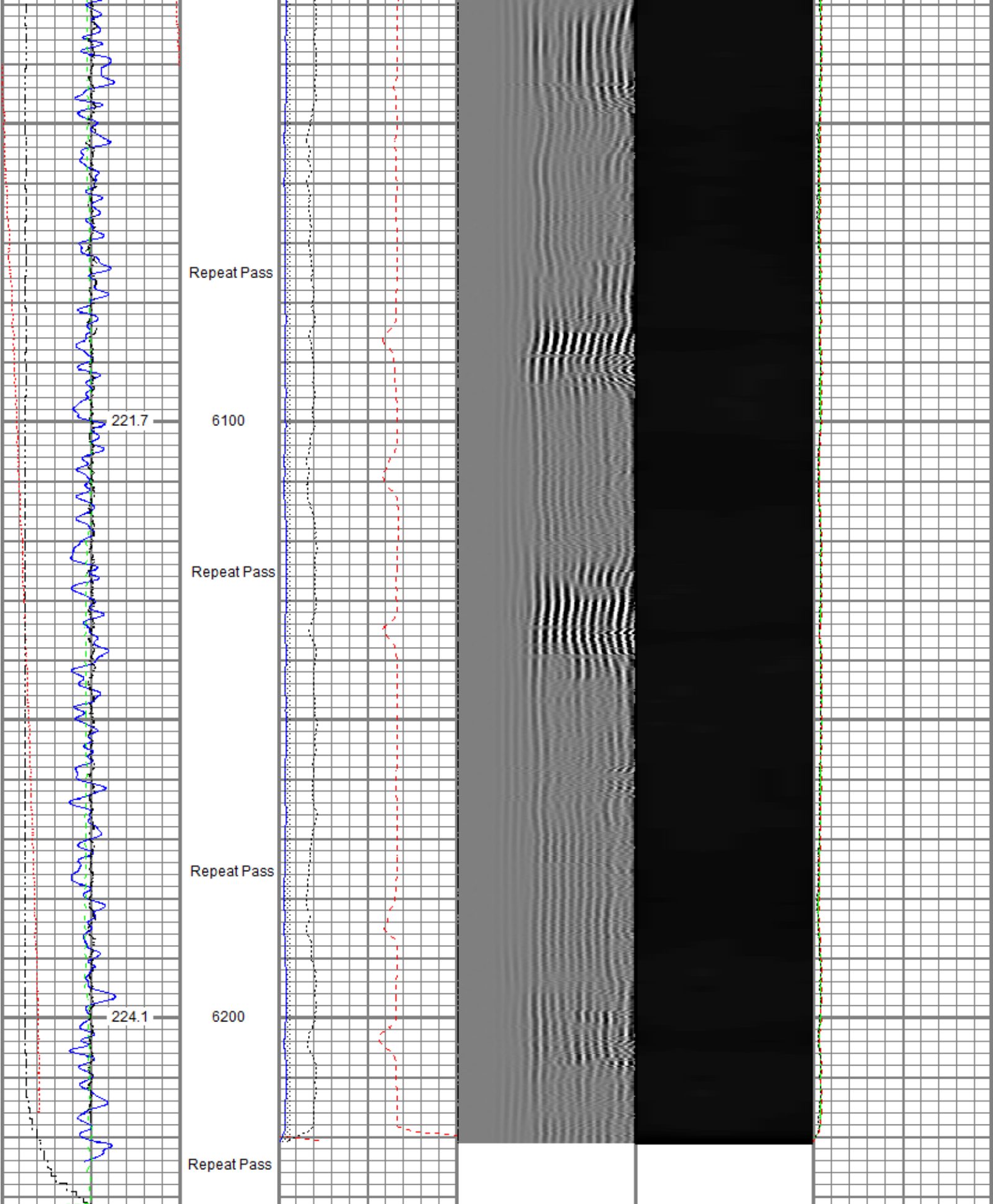
Repeat Pass

Recorded With 2500 PSI Surface Induced Pressure

Database File noble_guttersen d09 775\noble_guttersen d09 775_rbl_12-20-20.db
Dataset Pathname pass2.1
Presentation Format ros_radii_noble
Dataset Creation Sun Dec 20 18:51:30 2020
Charted by Depth in Feet scaled 1:240




Repeat Pass



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)			Minimum Amplitude	
Temperature (degF)	20	(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)
ErrCt	18.10		Titan CHD-16875 GO	1.03	1.69	5.40
RBT_HV	17.07		Titan 1-11/16" Assembled Electric Cable Head with 1" Fishing Neck			
TEMP	14.16		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
RBT_ACCZ	11.93		Probe Radii ACC-2750 RBTa (FW1302-002)	9.39	2.75	105.00
RBT_ACCY	11.93		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub and Accelerometer			
RBT_ACCX	11.93					
WVFSYNC	11.93					
WVFS8	11.93					
WVFS7	11.93					
WVFS6	11.93					
WVFS5	11.93					
WVFS4	11.93					
WVFS3	11.93					
WVFS2	11.93					
WVFS1	11.93					
WVFCAL	11.93					
WVF3FT	11.93					
WVF5FT	10.93					
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
			Probe GR-CCL-2750 6PB (FW1810-001) 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_Guttersen D09 775_RBL_12-20-20.db: field/well/run1/pass4.1 Total length: 18.10 ft Total weight: 226.40 lb O.D.: 3.25 in					

Calibration Report		
Database File	C:\ProgramData\Warrior\Data\Noble_Guttersen D09 775\Noble_Guttersen D09 775_RBL_12-20-20.db	
Dataset Pathname	pass4.1	
Dataset Creation	Sun Dec 20 10:28:13 2020	
Gamma Ray Calibration Report		
Serial Number:	FW1810-001	
Tool Model:	2750 6PB	
Performed:	Tue Dec 03 09:24:53 2019	
Calibrator Value:	637.0	GAPI
Background Reading:	100.1	cps
Calibrator Reading:	1264.5	cps
Sensitivity:	0.5471	GAPI/cps

Segmented Cement Bond Log Calibration Report					
Serial Number:	FW1302-002				
Tool Model:	2750 RBTa				
Calibration Casing Diameter:	5.500	in			
Calibration Depth:	-6.608	ft			

Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.679	0.800	71.921	104.842	0.756
CAL	0.006	0.665				
5'	0.000	0.669	0.800	71.921	106.358	0.776
SUM						
S1	0.000	0.654	0.000	100.000	152.970	-0.065
S2	0.001	0.698	0.000	100.000	143.452	-0.079
S3	0.001	0.756	0.000	100.000	132.482	-0.092
S4	0.001	0.747	0.000	100.000	133.950	-0.083
S5	0.001	0.731	0.000	100.000	136.864	-0.075
S6	0.000	0.692	0.000	100.000	144.646	-0.068
S7	0.000	0.657	0.000	100.000	152.366	-0.065
S8	0.000	0.644	0.000	100.000	155.314	-0.066

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.665	1.000	0.000

Air Zero Calibration, performed Sat Dec 19 07:44:50 2020:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	

S	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:	Tue Dec 03 09:24:53 2019				
	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:	Tue Dec 03 09:24:53 2019			
	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	Guttersen D09-775
Field	Wattenberg
County	Weld
State	Colorado