

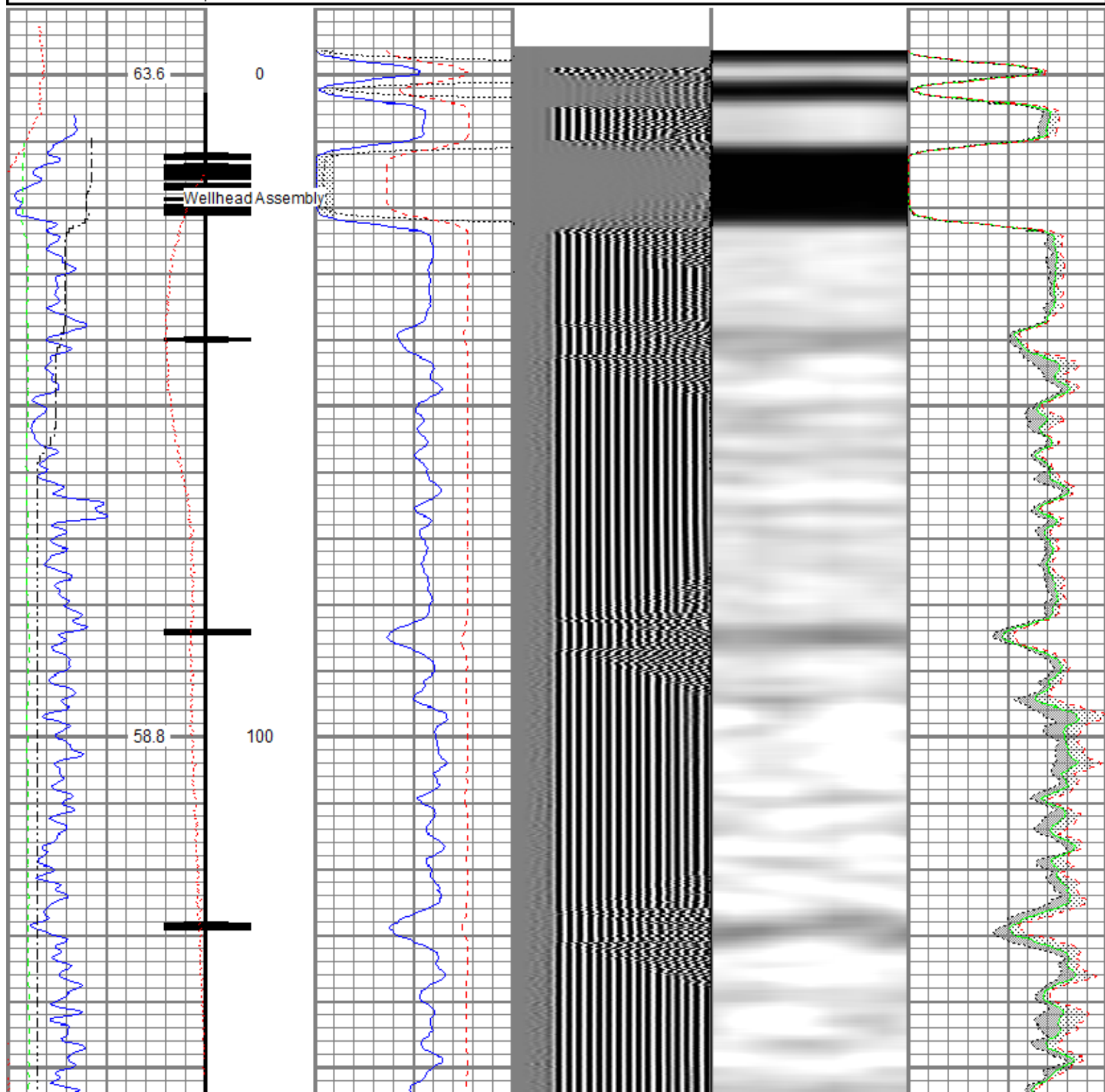


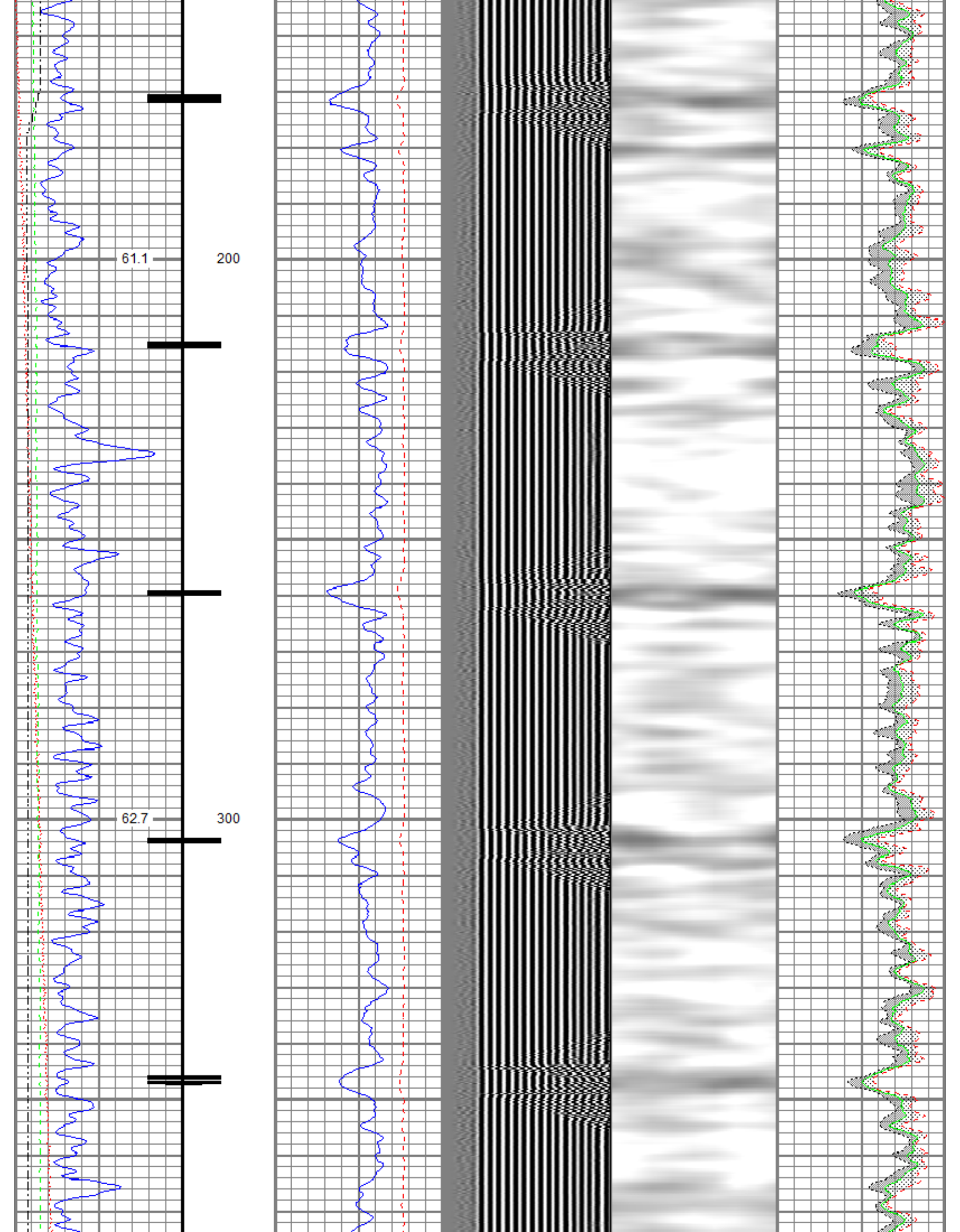
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Kelly Bushing at 21 FT Adjust 4 FT to correlate with Kelly Bushing Log ran from as deep as possible to surface Log ran with 600 PSI Surface Induced Pressure (As Per Customer Request) Logging tools were clean and free of any debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

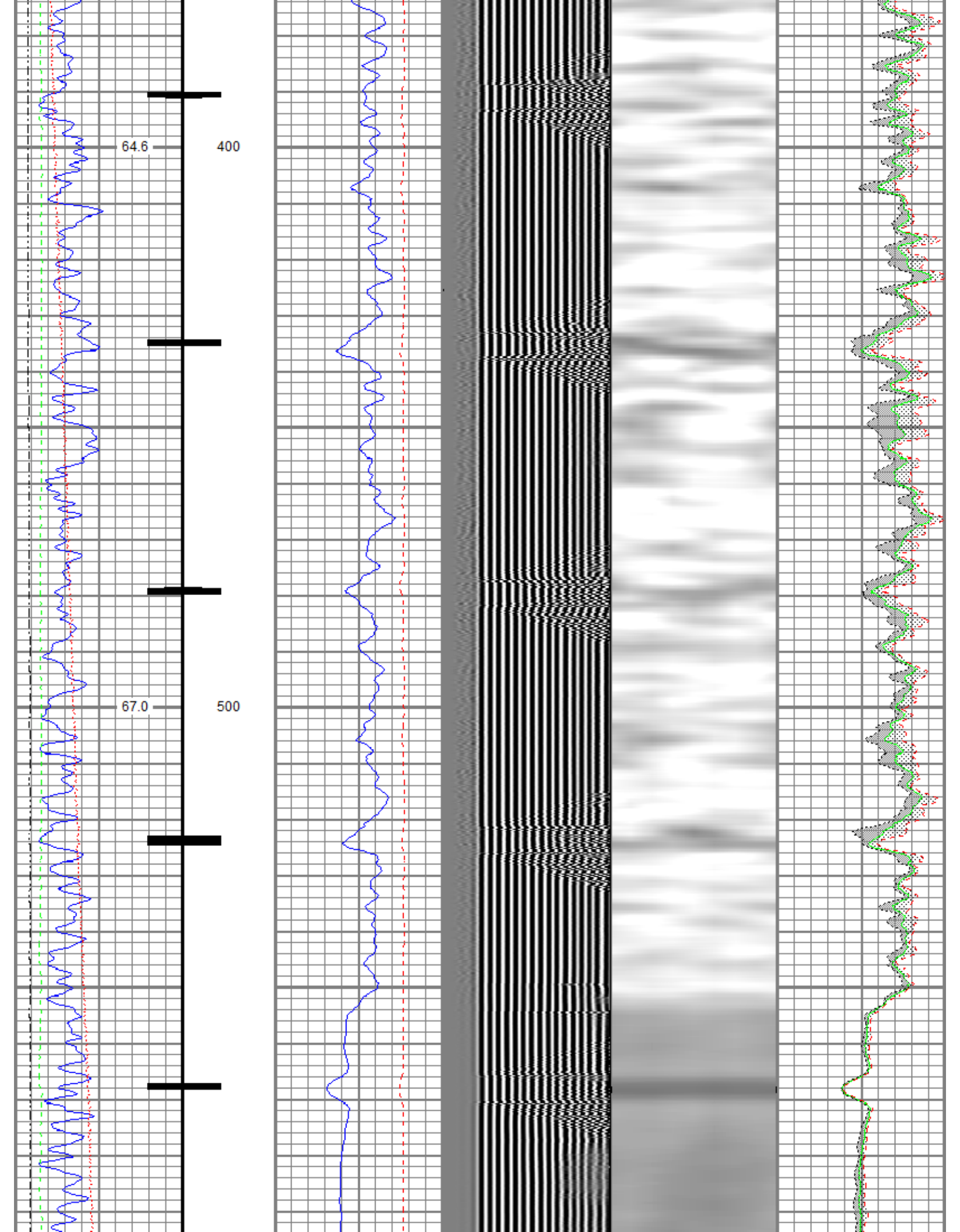
Recorded With CO₂ DSI Surface-Induced Pressure

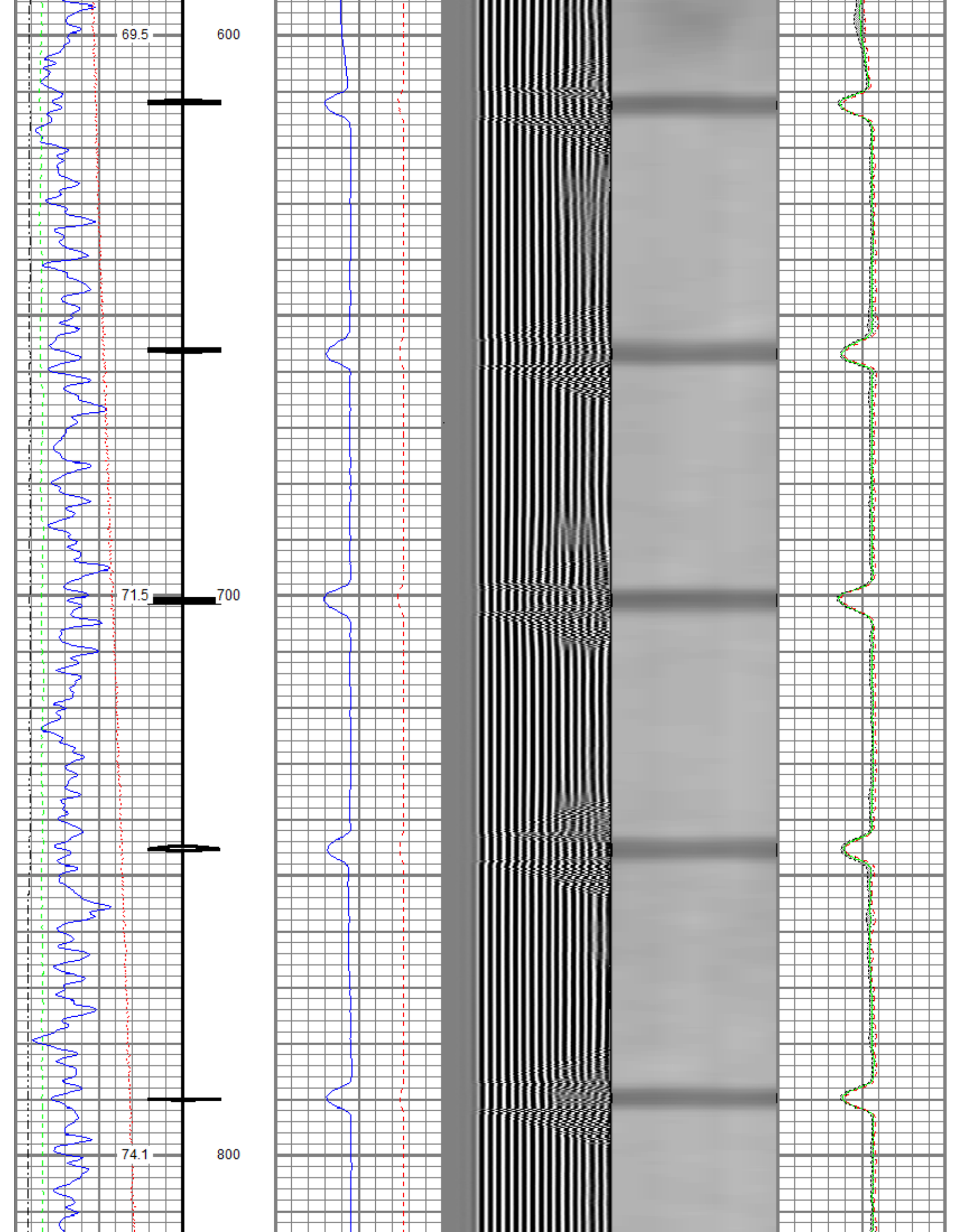
Database File fifth creek energy_critter creek 202-1807h_12-12-17/fifth creek energy_critter creek 202-1807h_12-12-17.db
 Dataset Pathname run/pass5.1
 Presentation Format ros_radrii
 Dataset Creation Tue Dec 12 12:37:54 2017
 Charted by Depth in Feet scaled 1:240

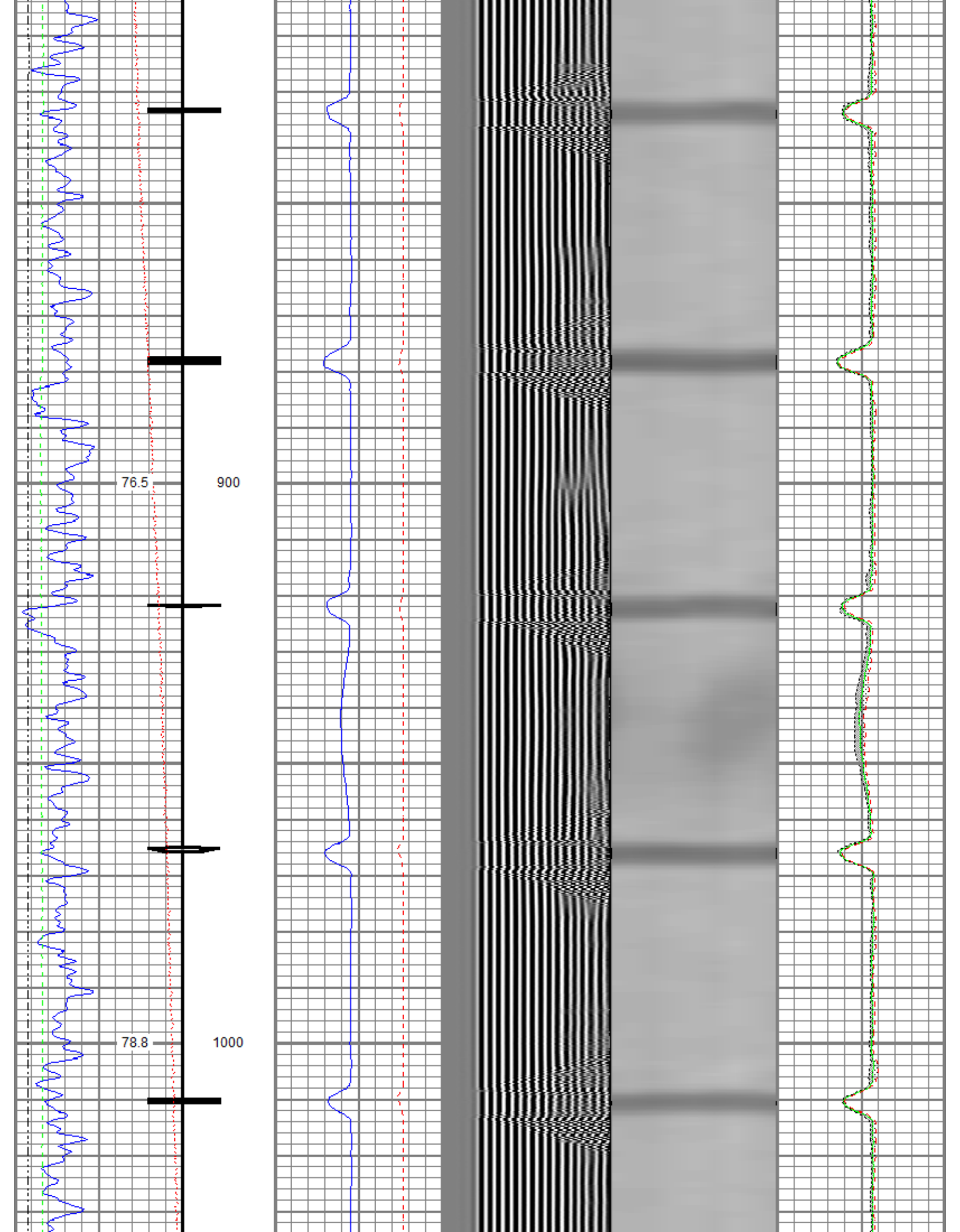
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line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

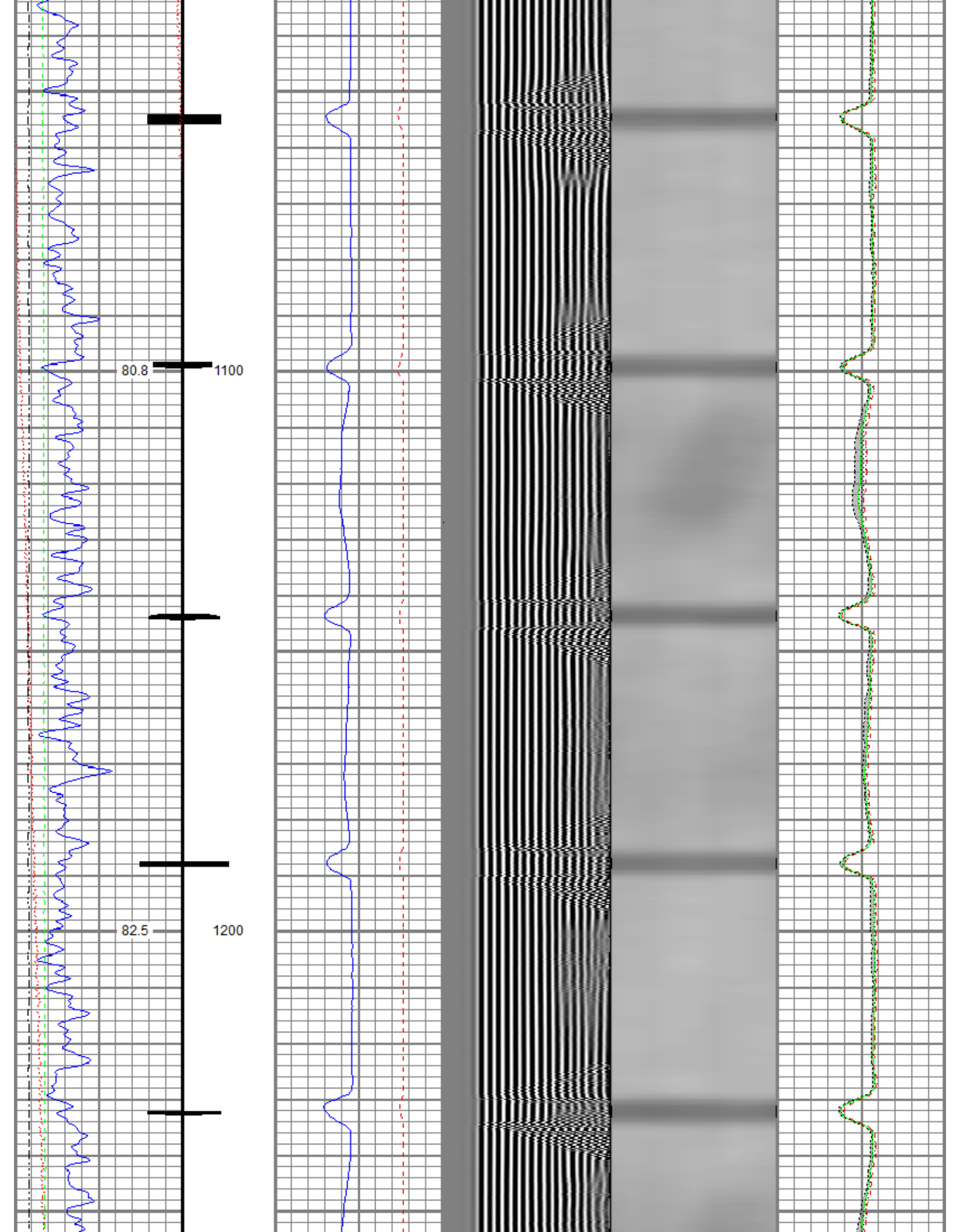


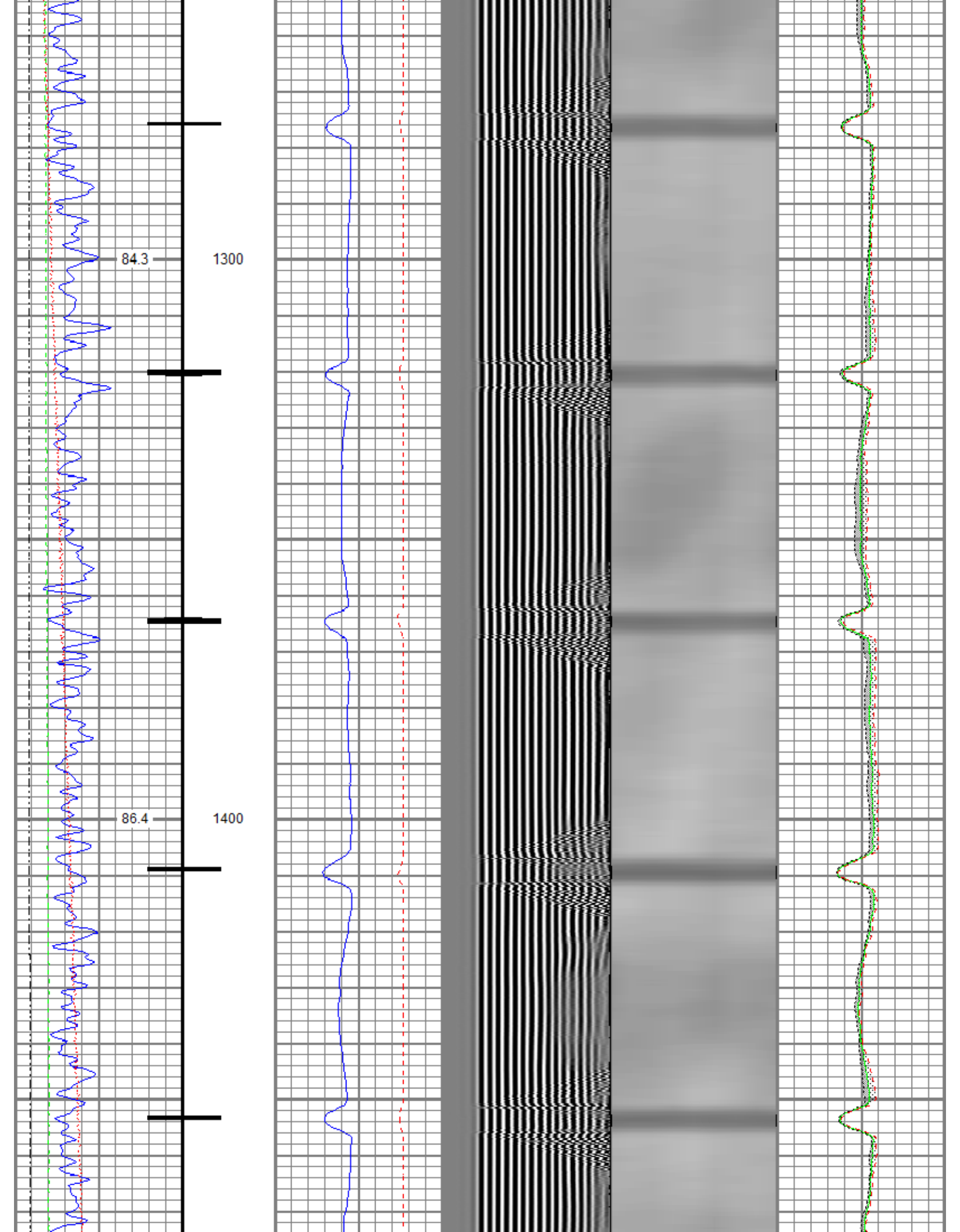


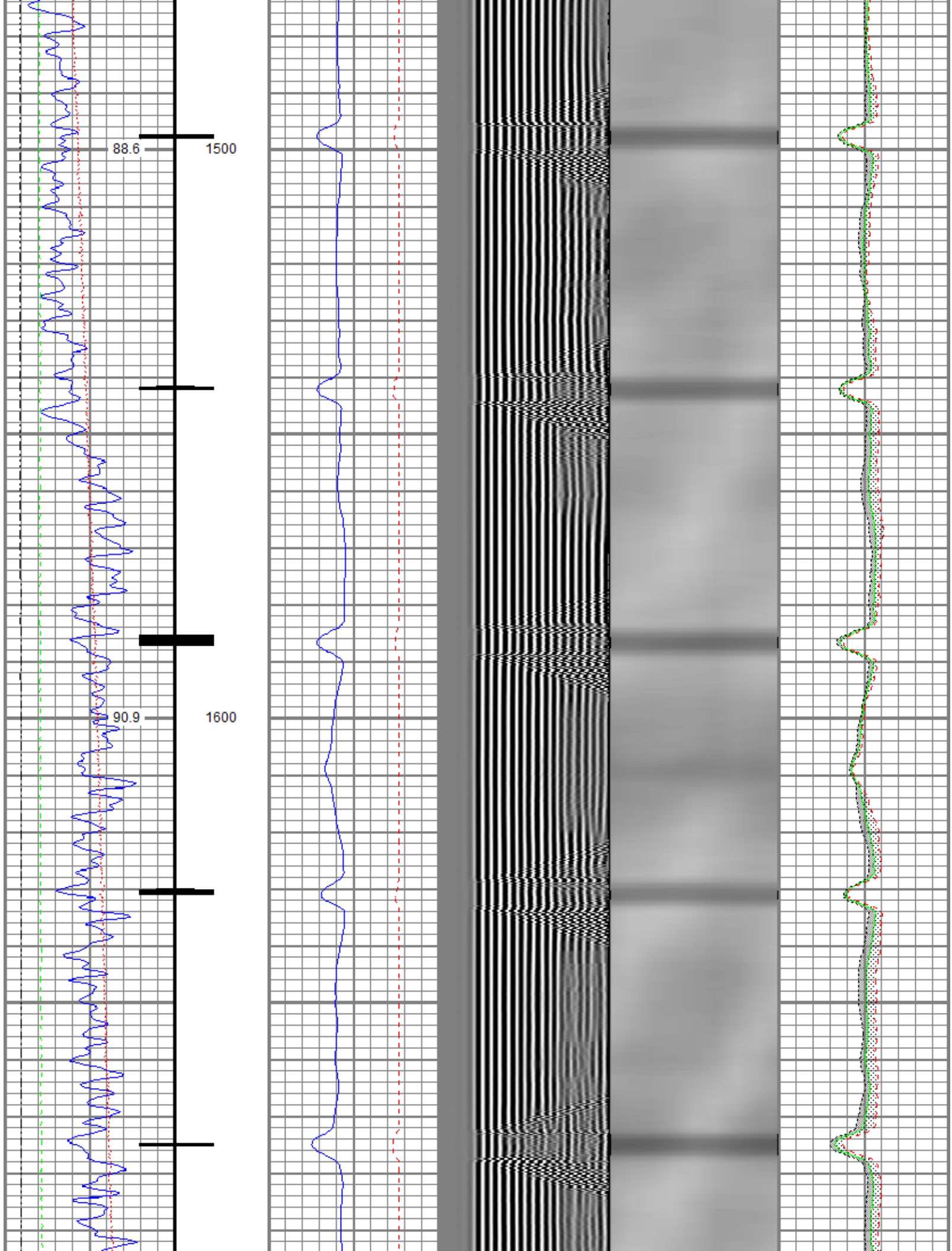


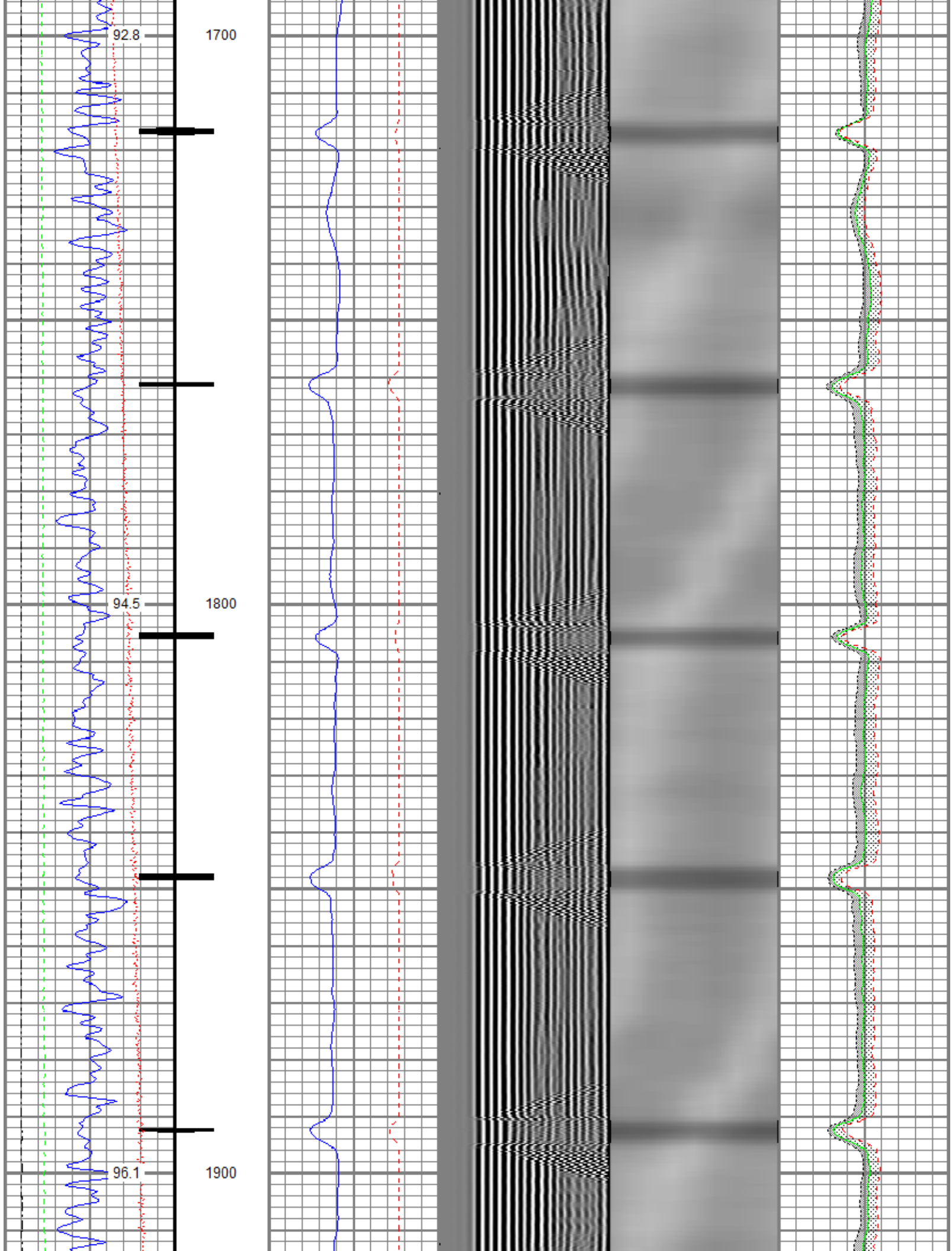


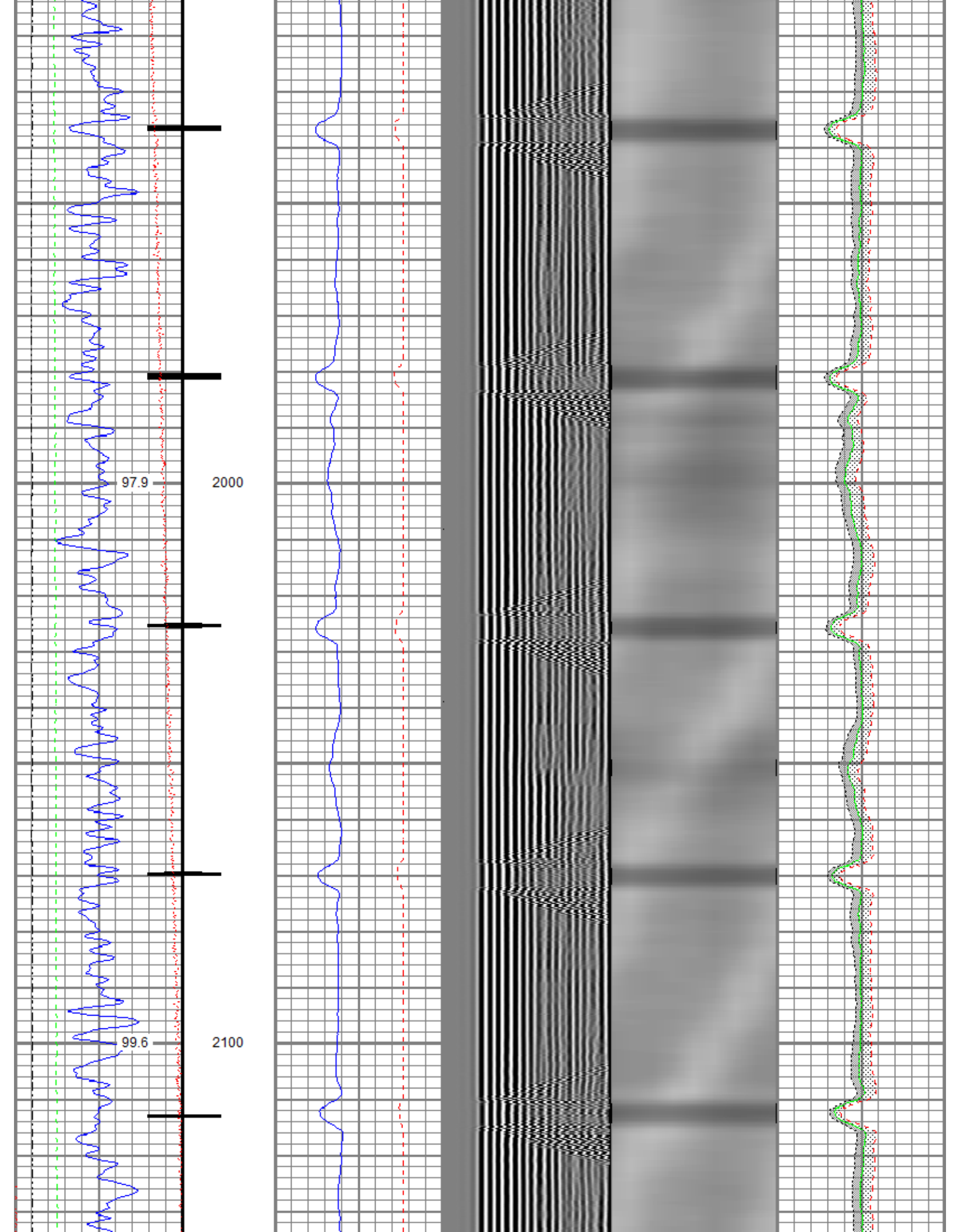


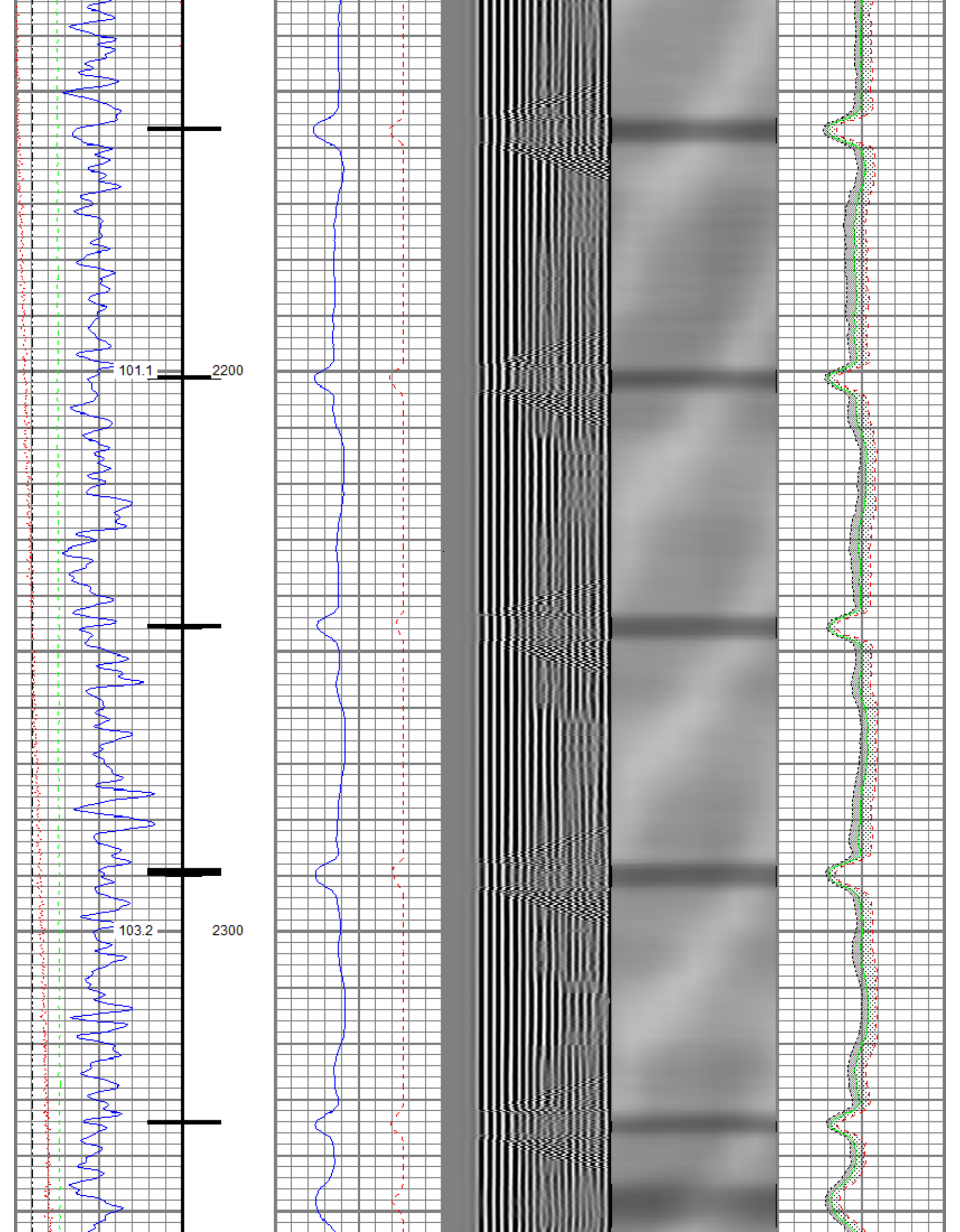


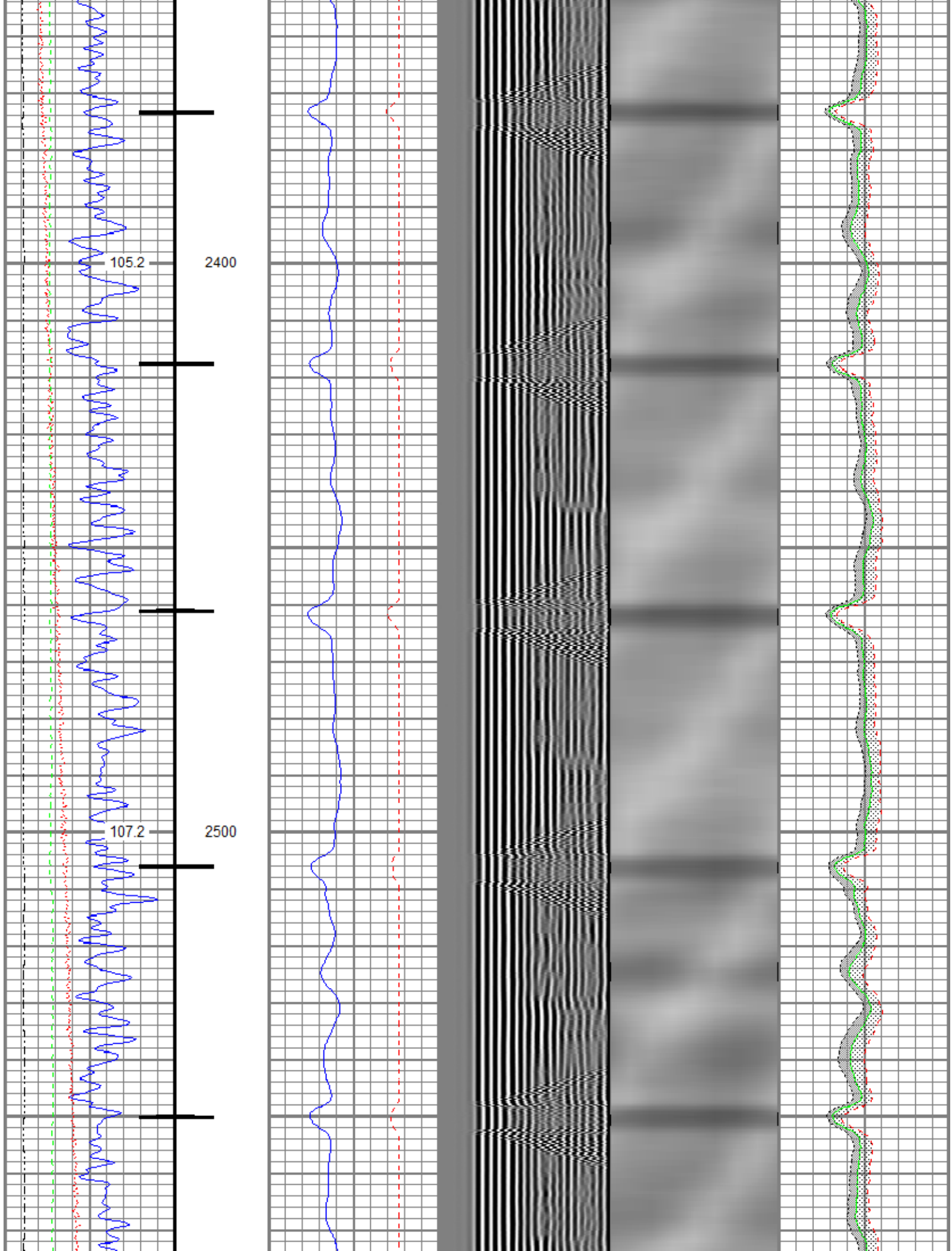


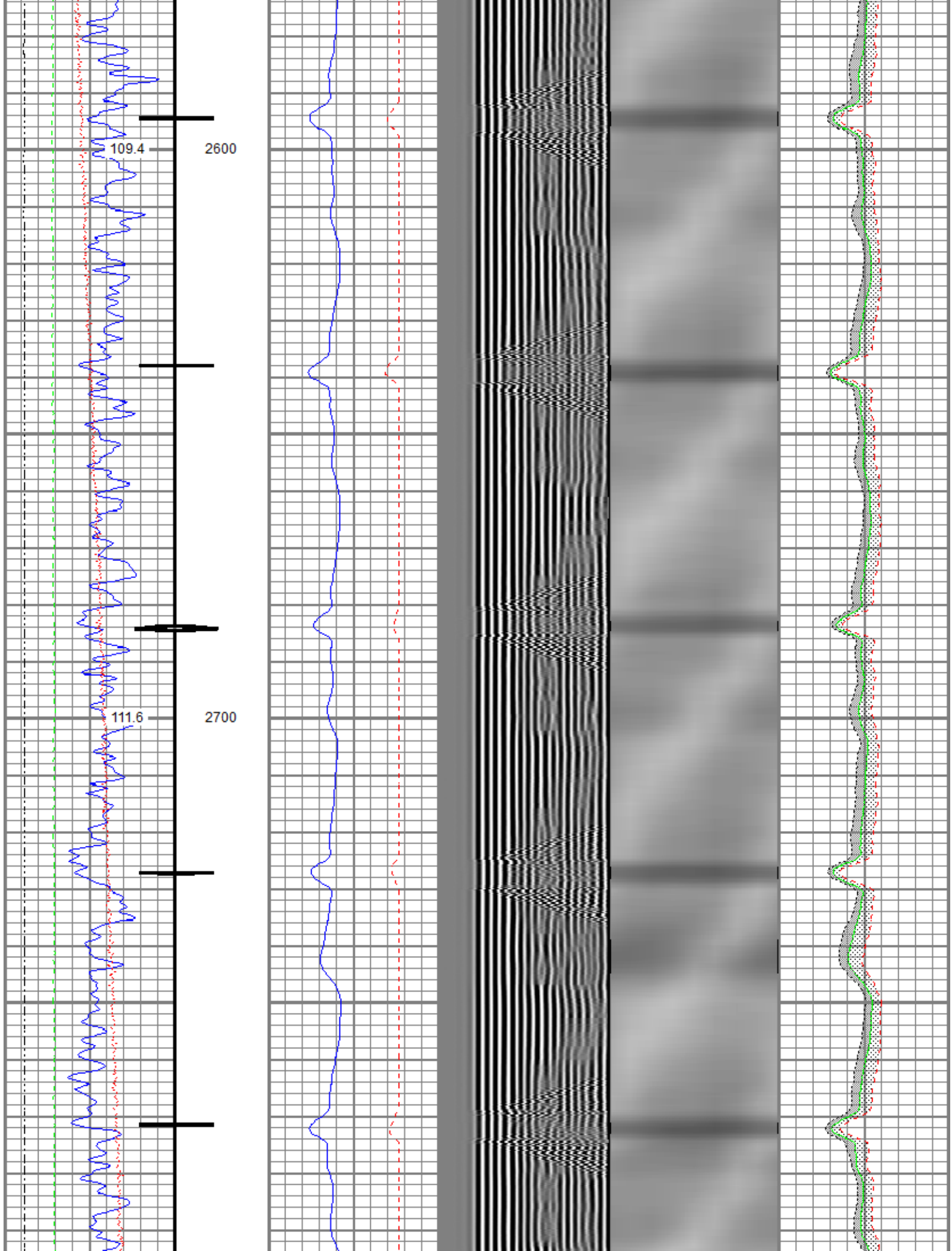


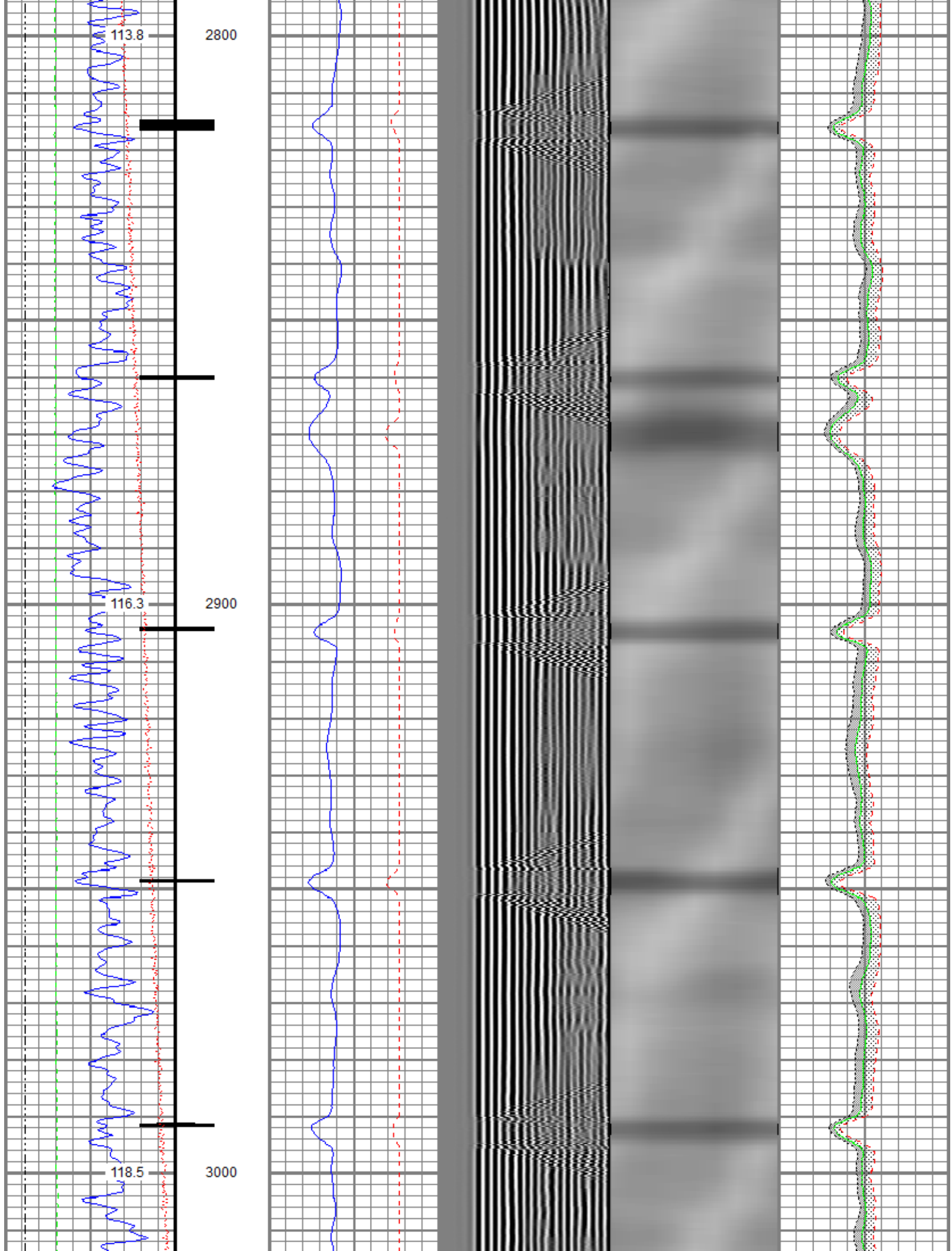


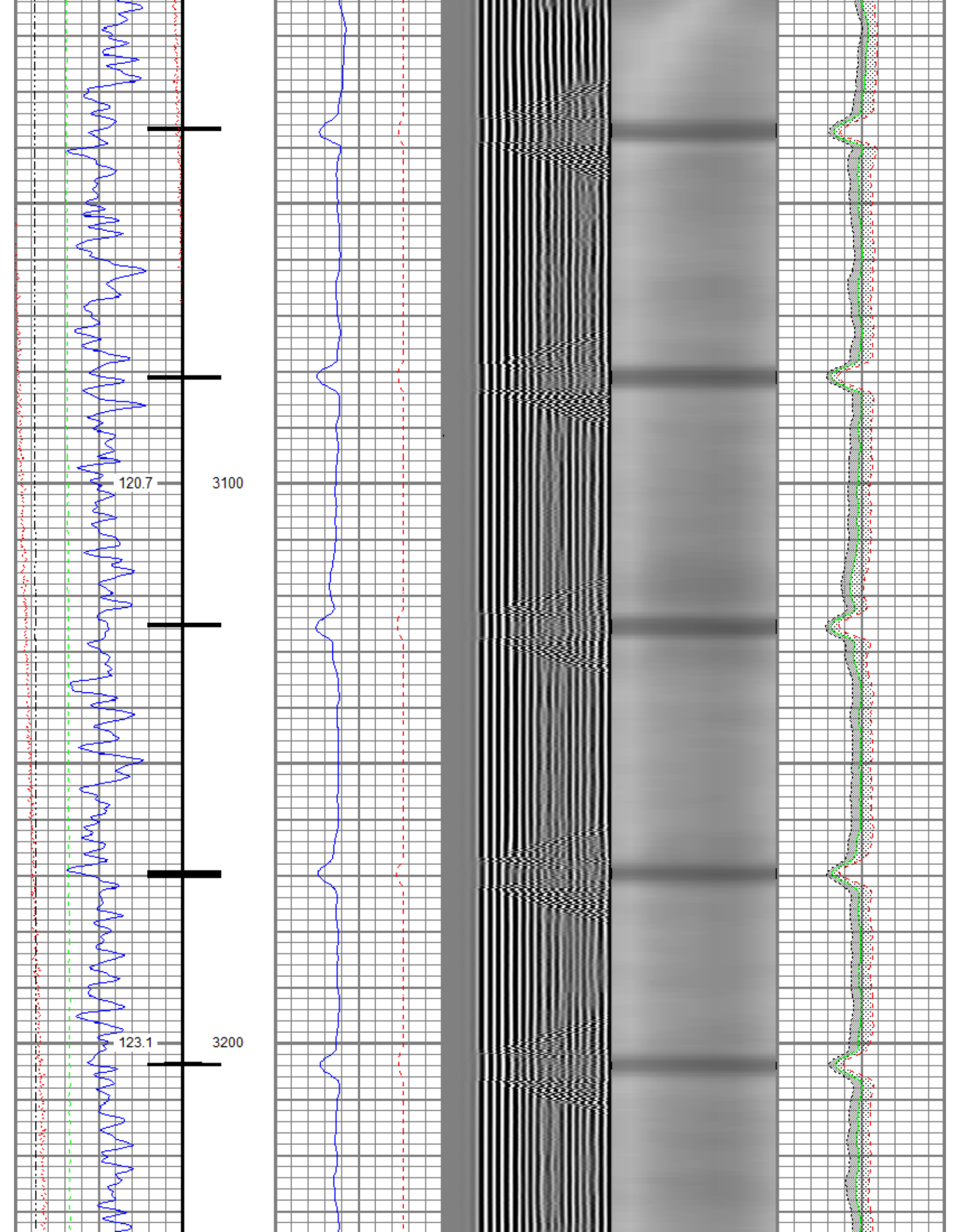


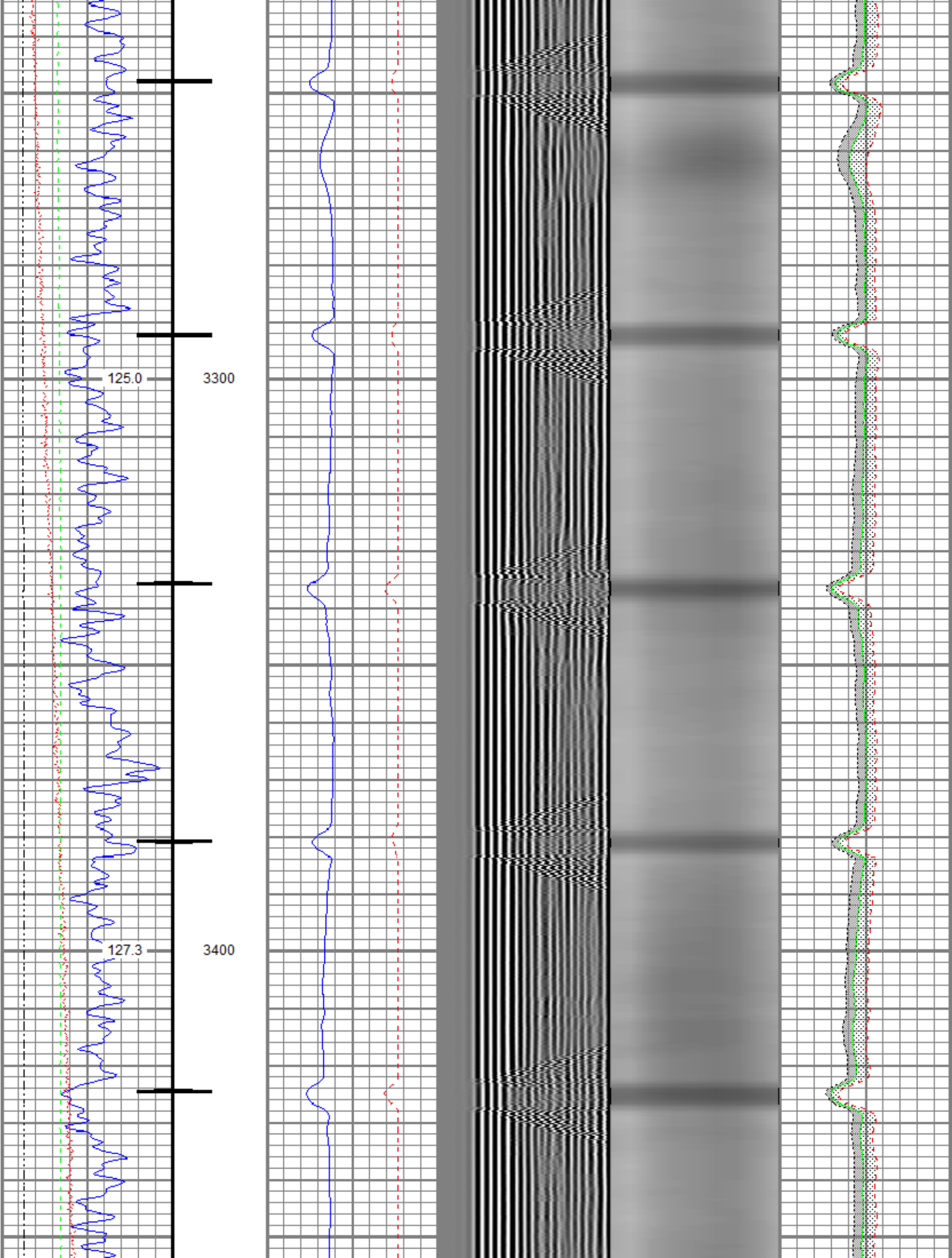


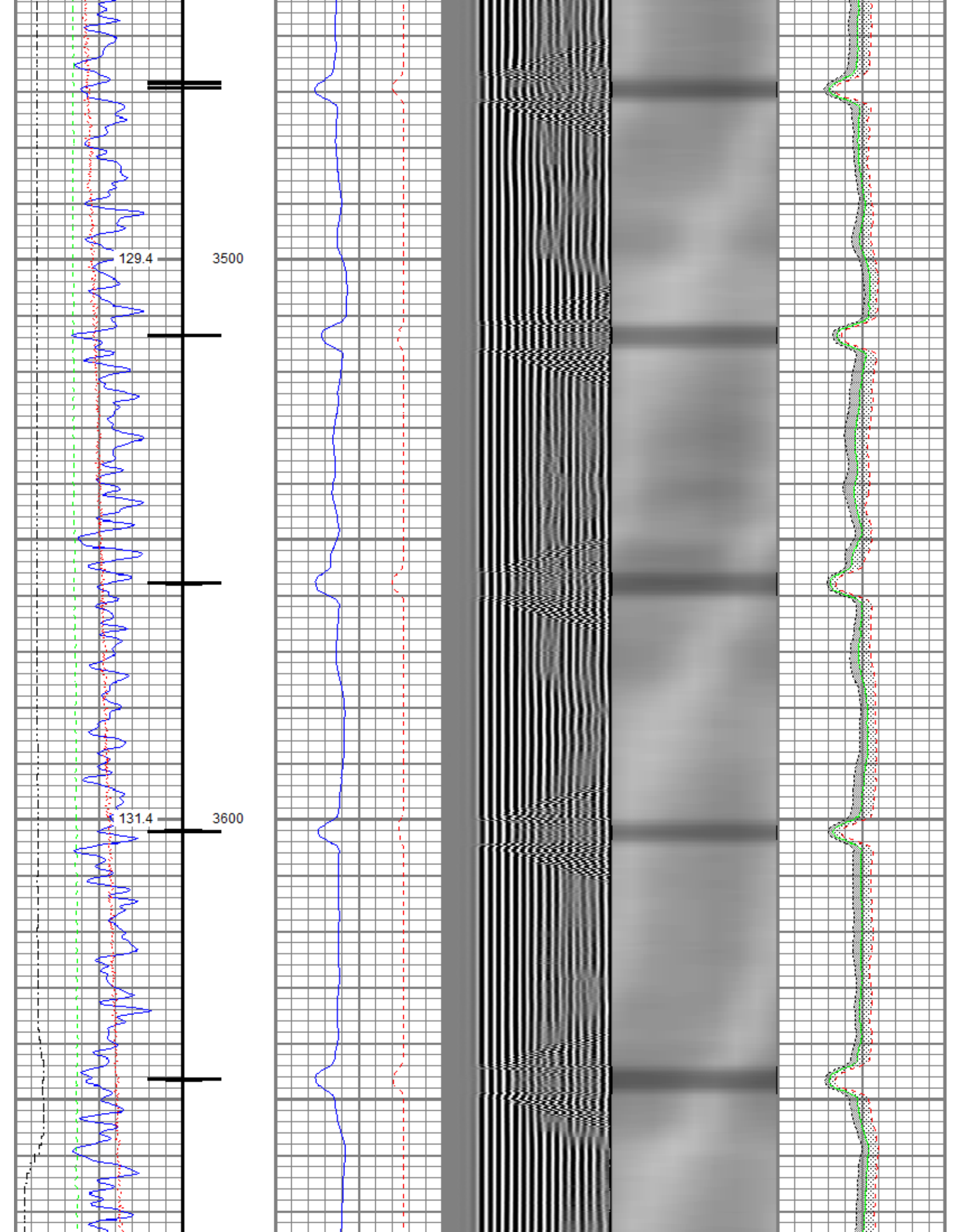


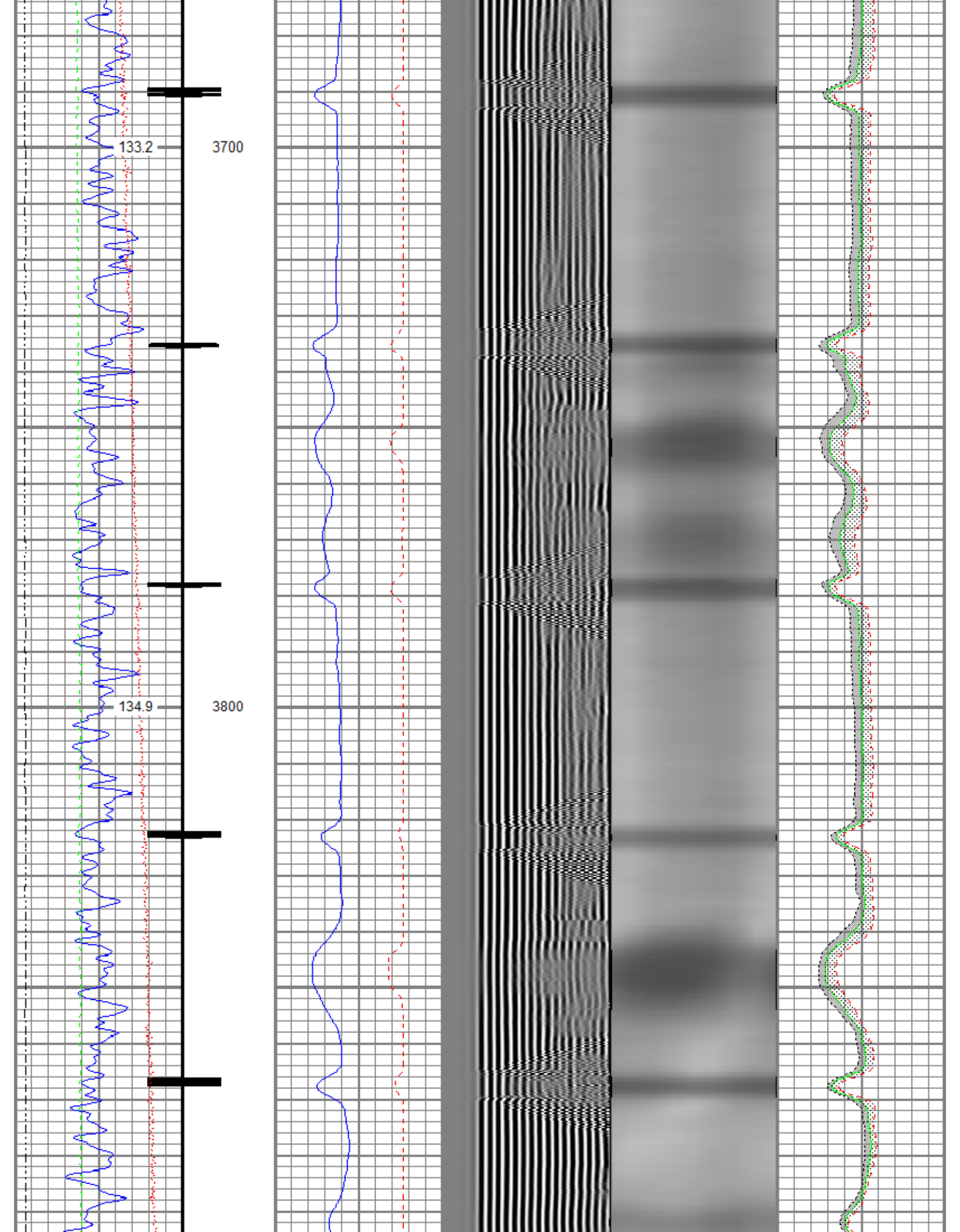


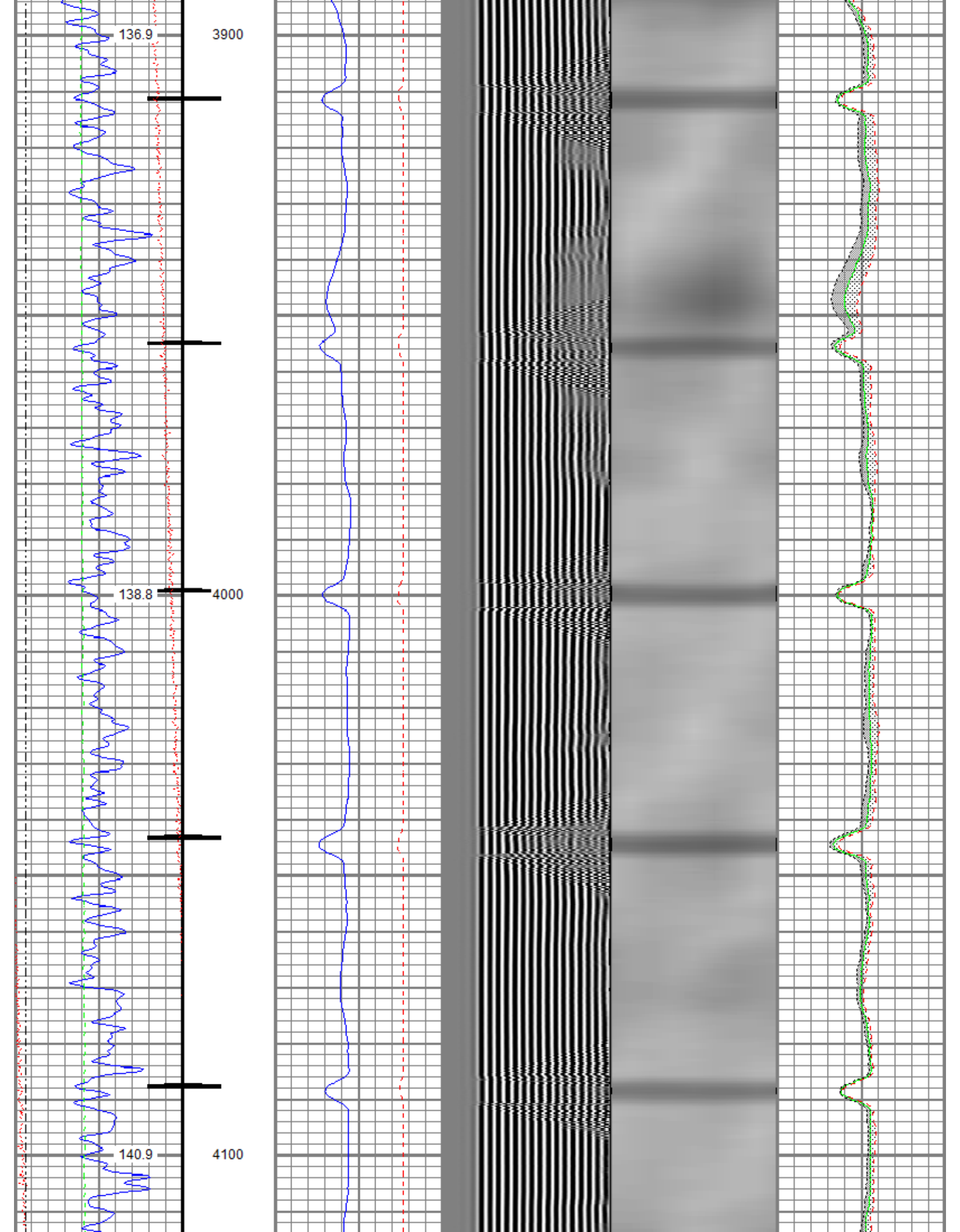


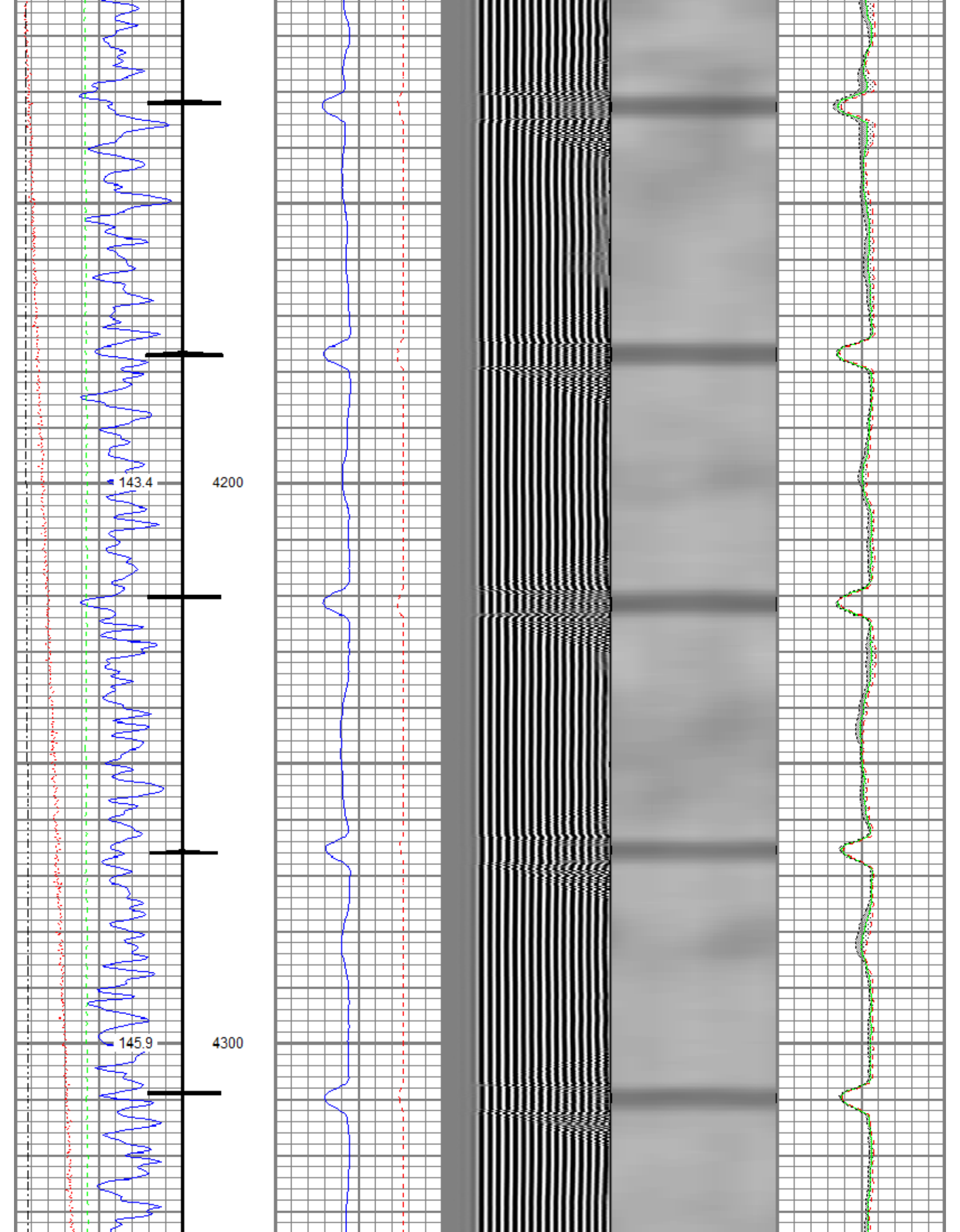


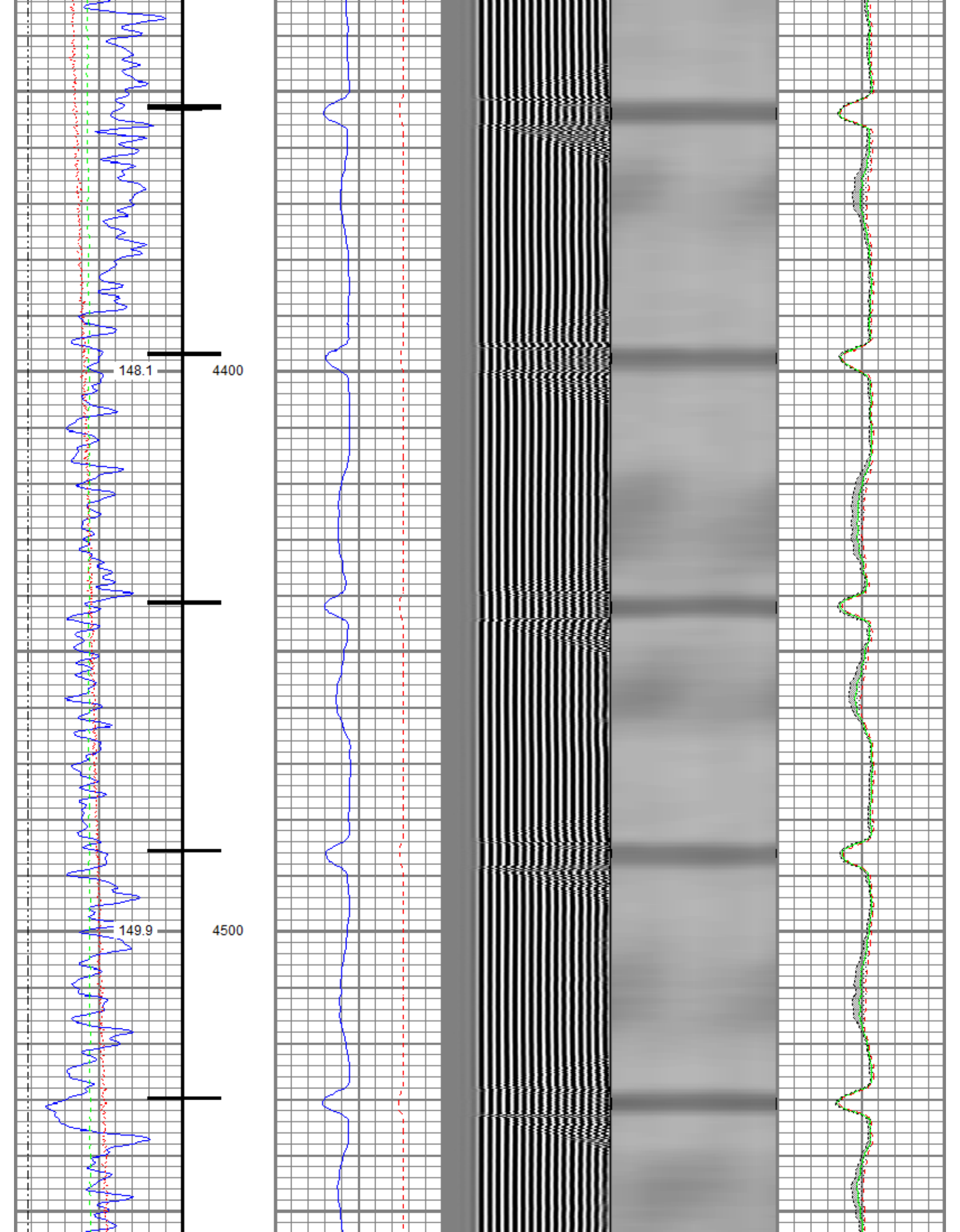


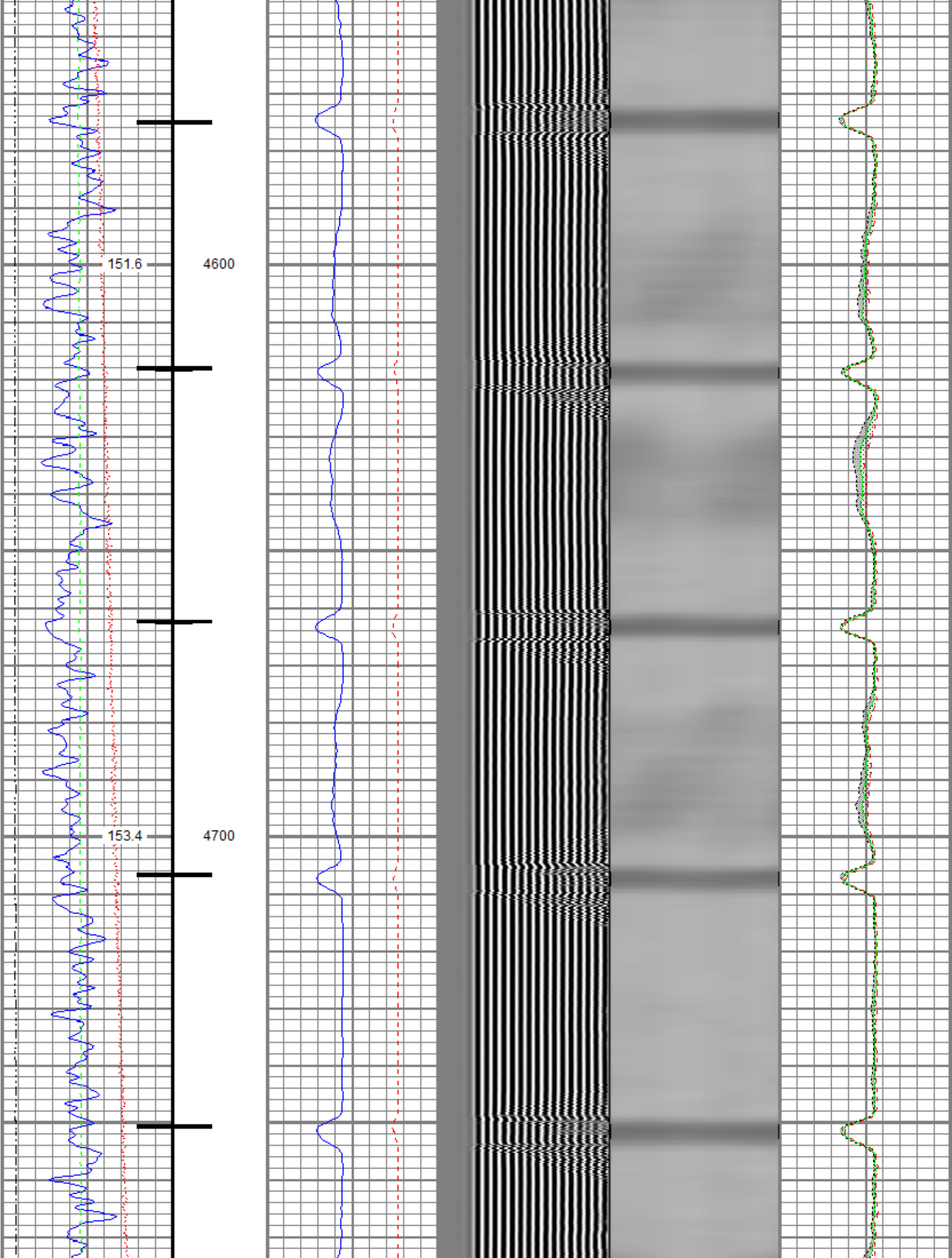


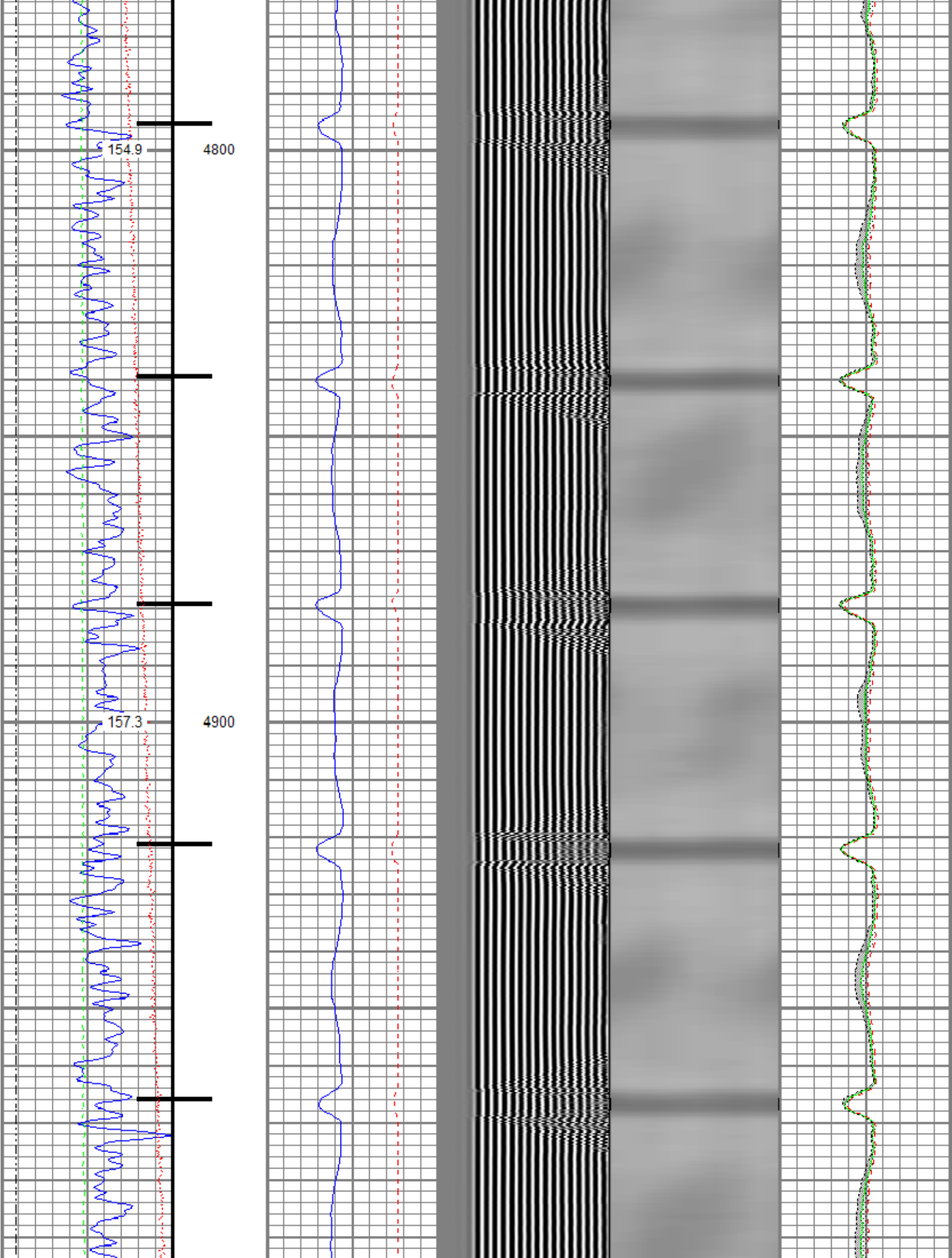


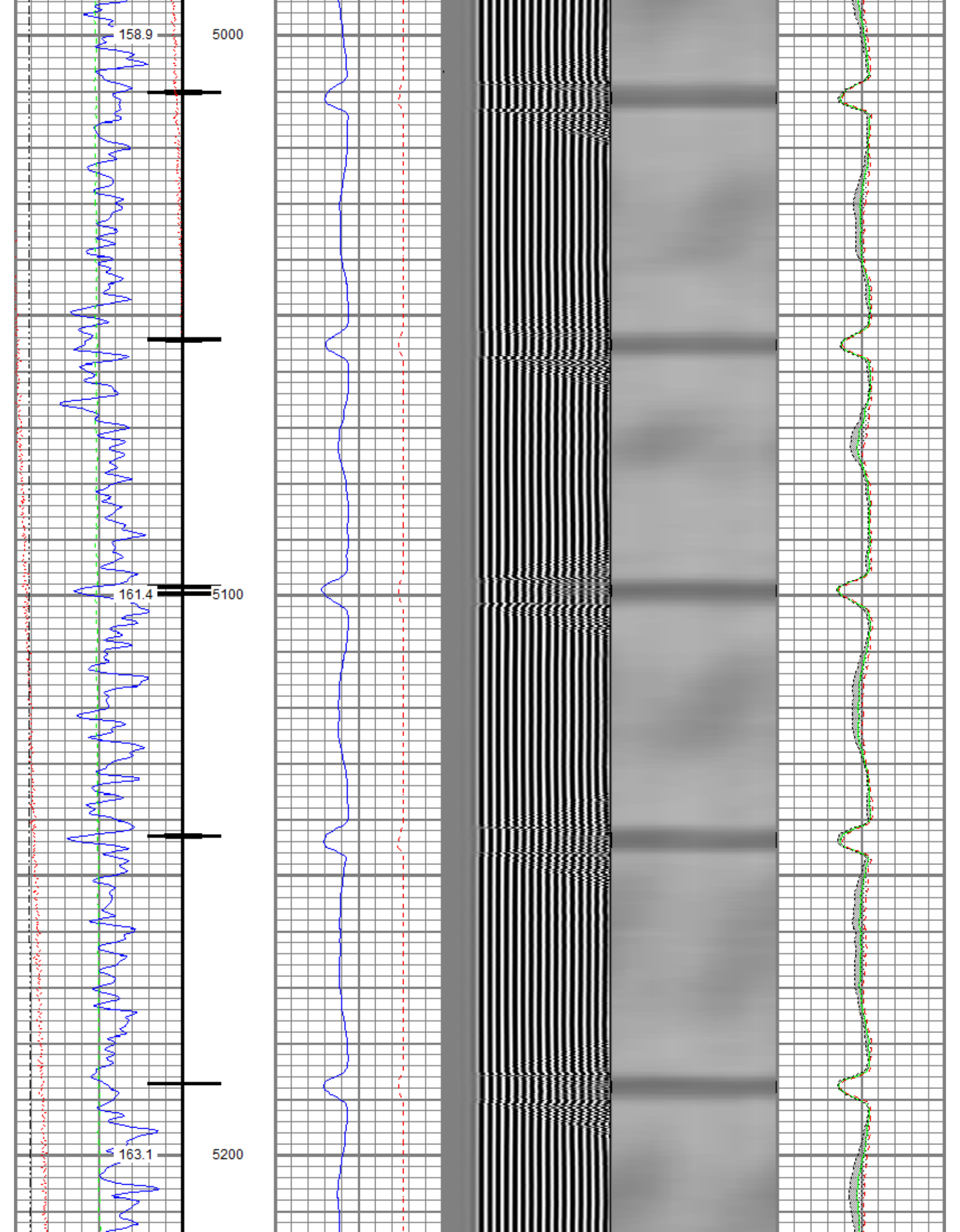


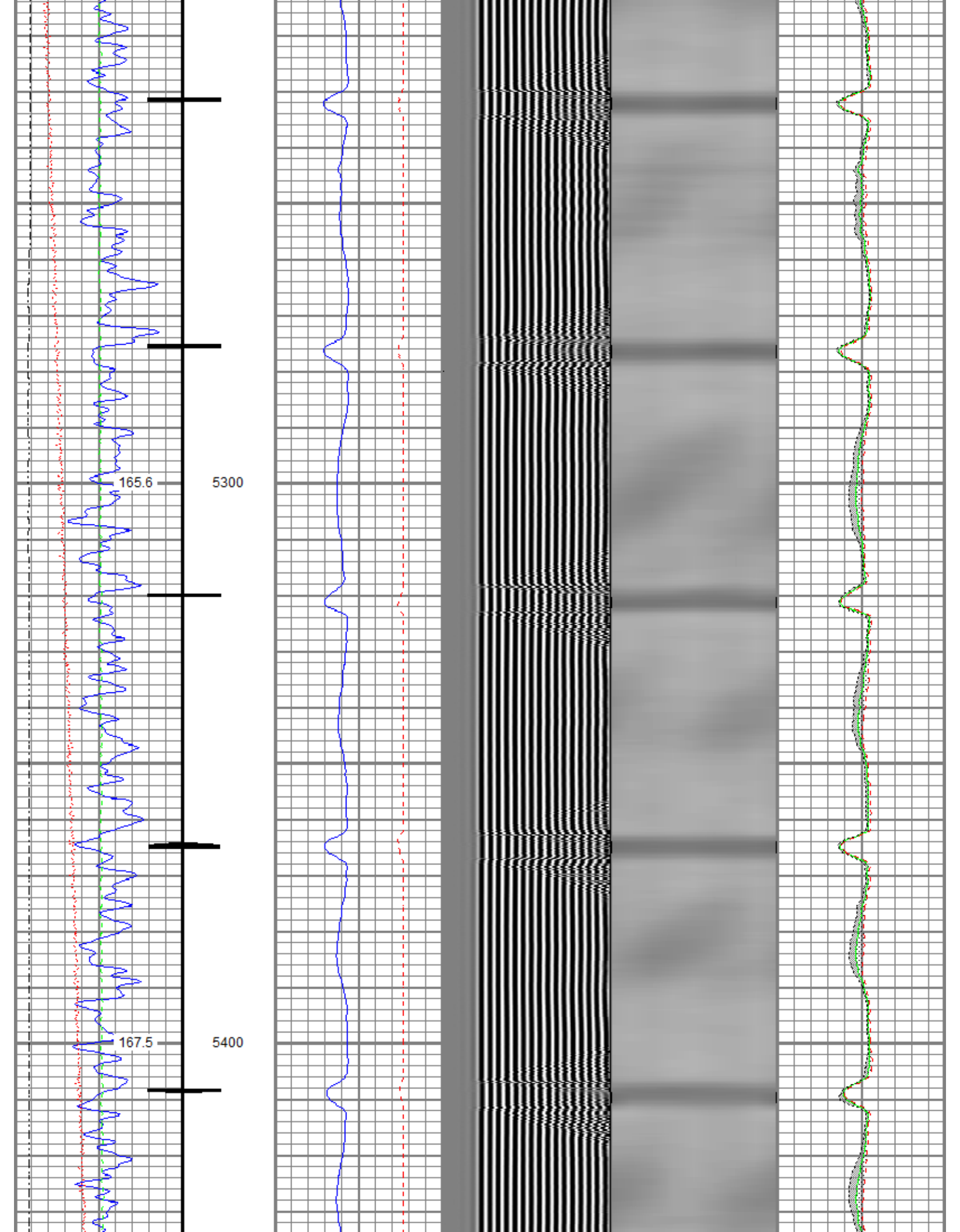


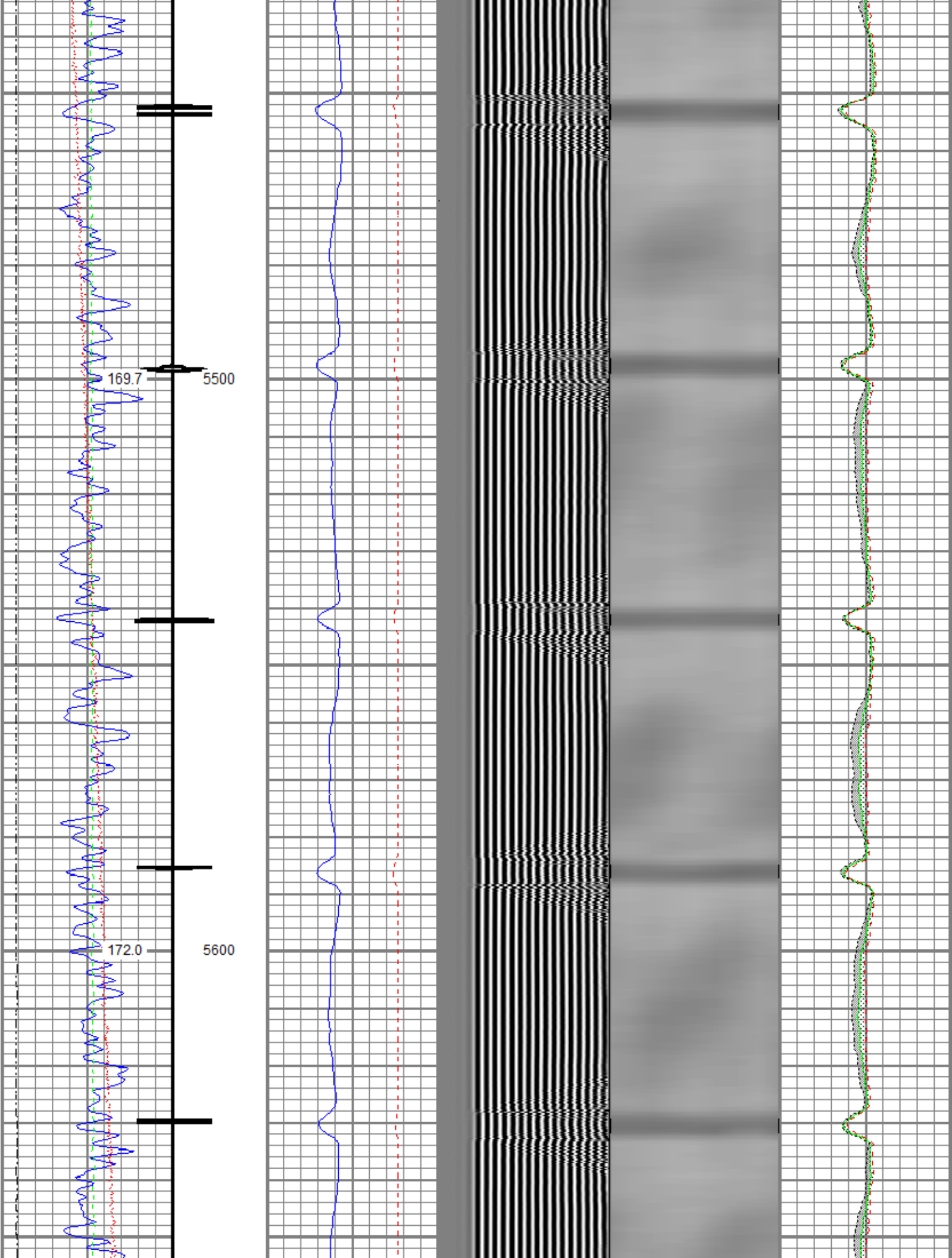


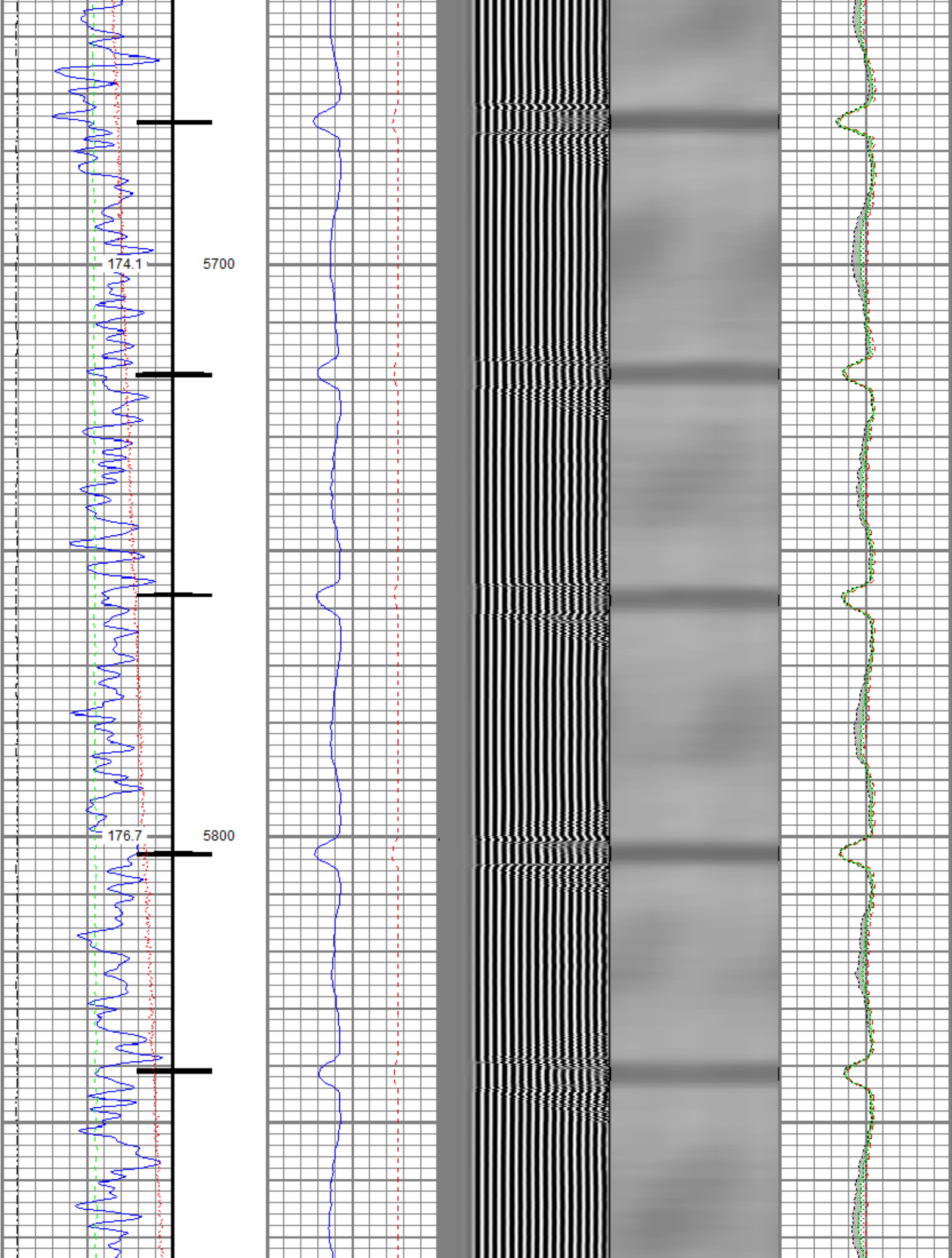


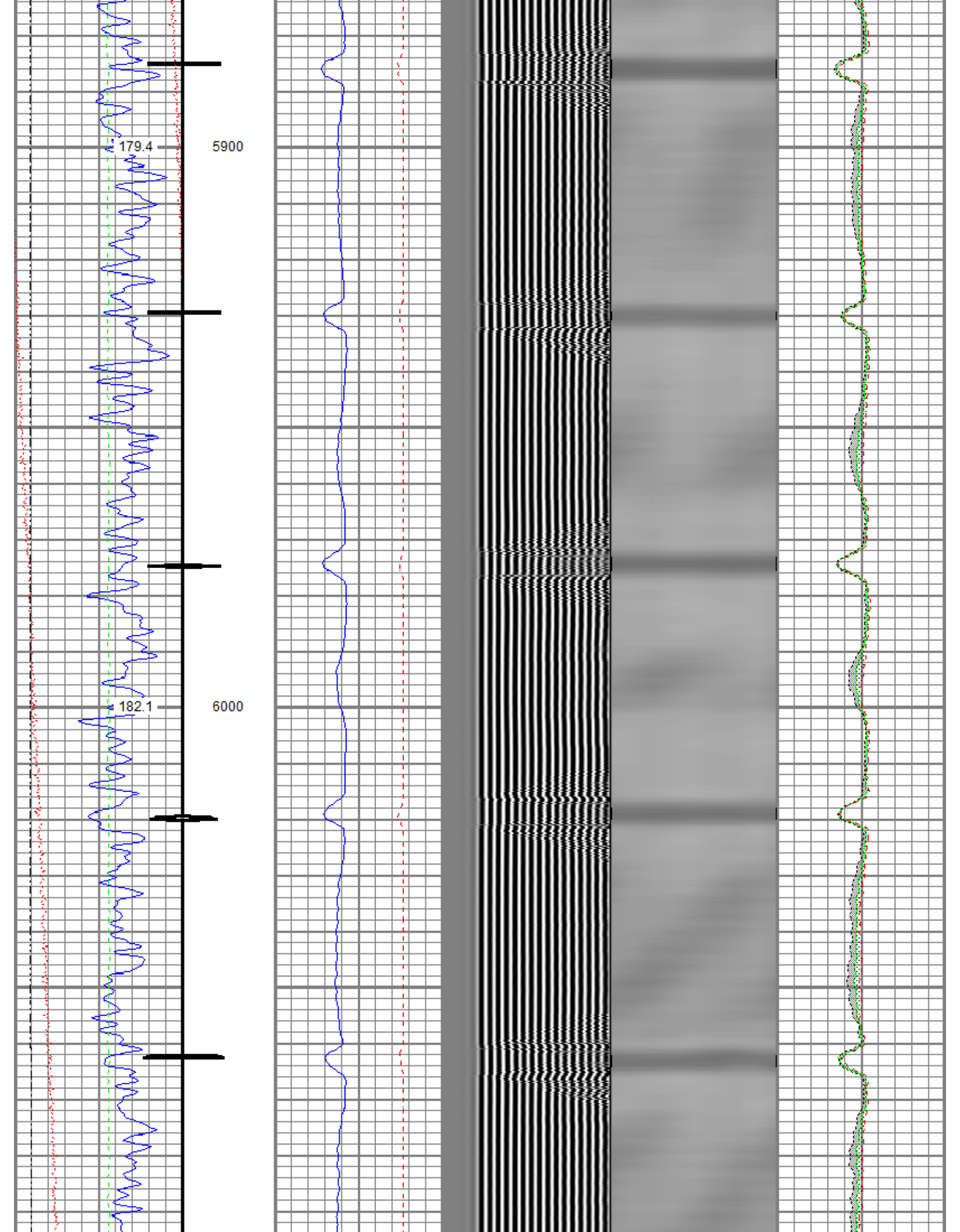


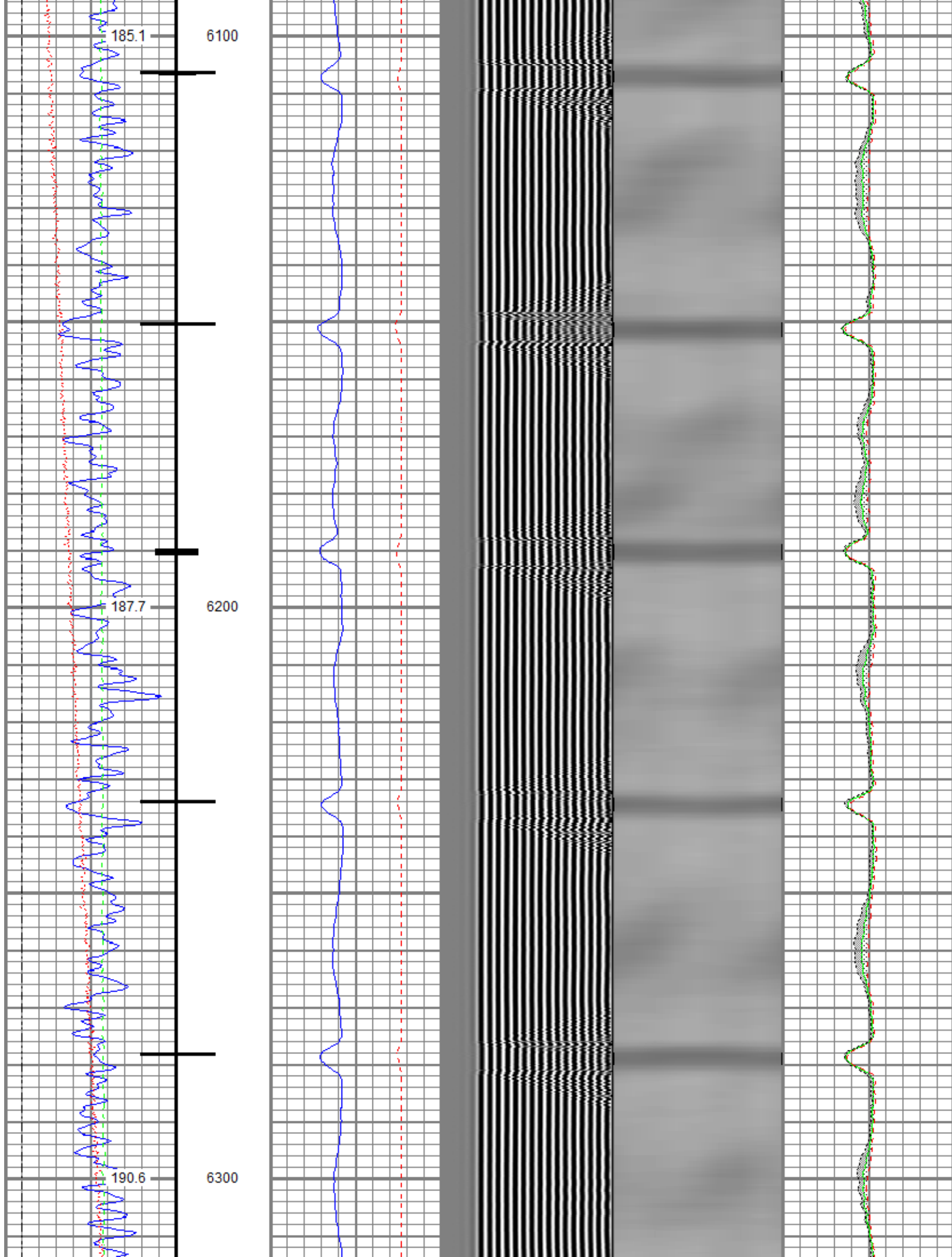


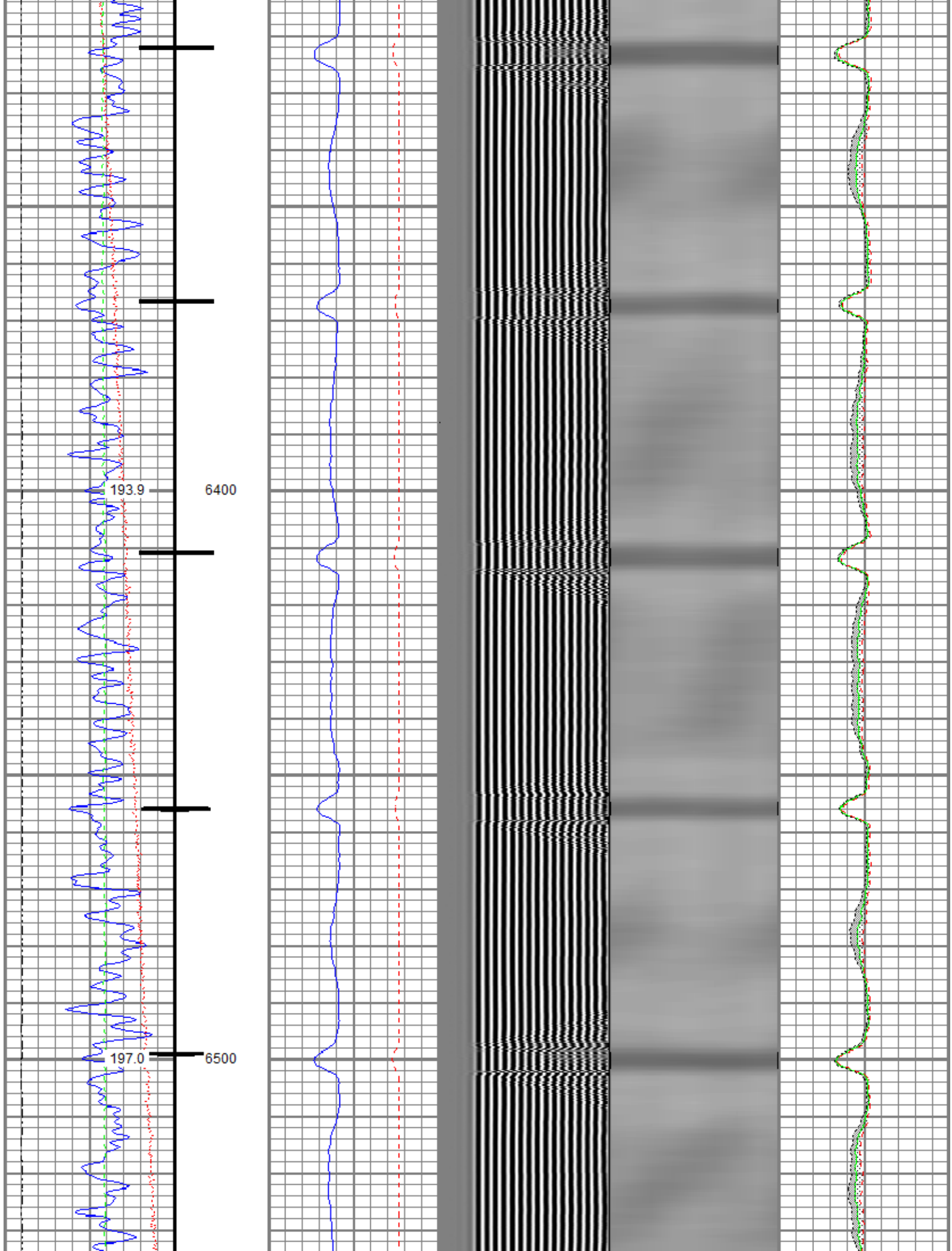


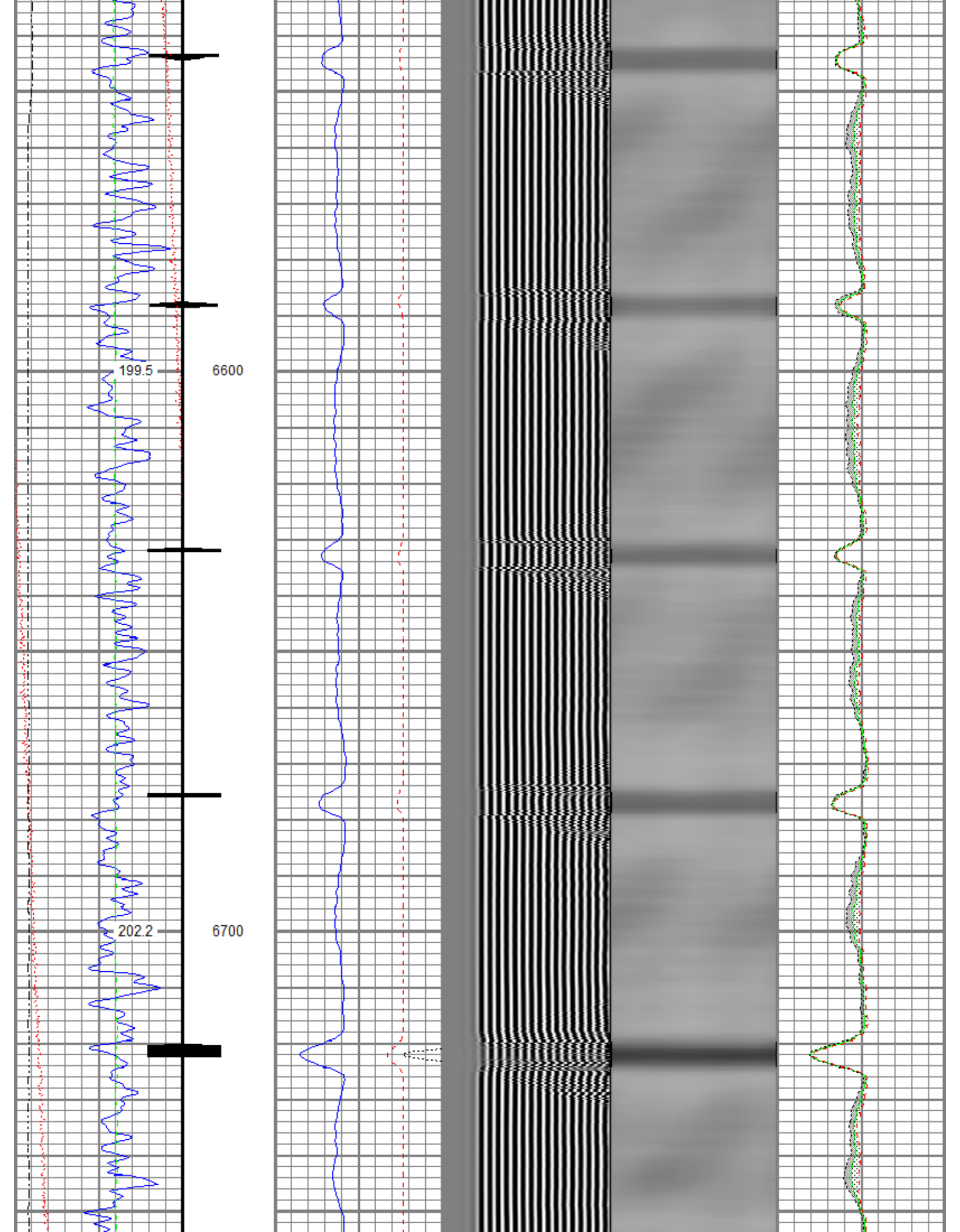


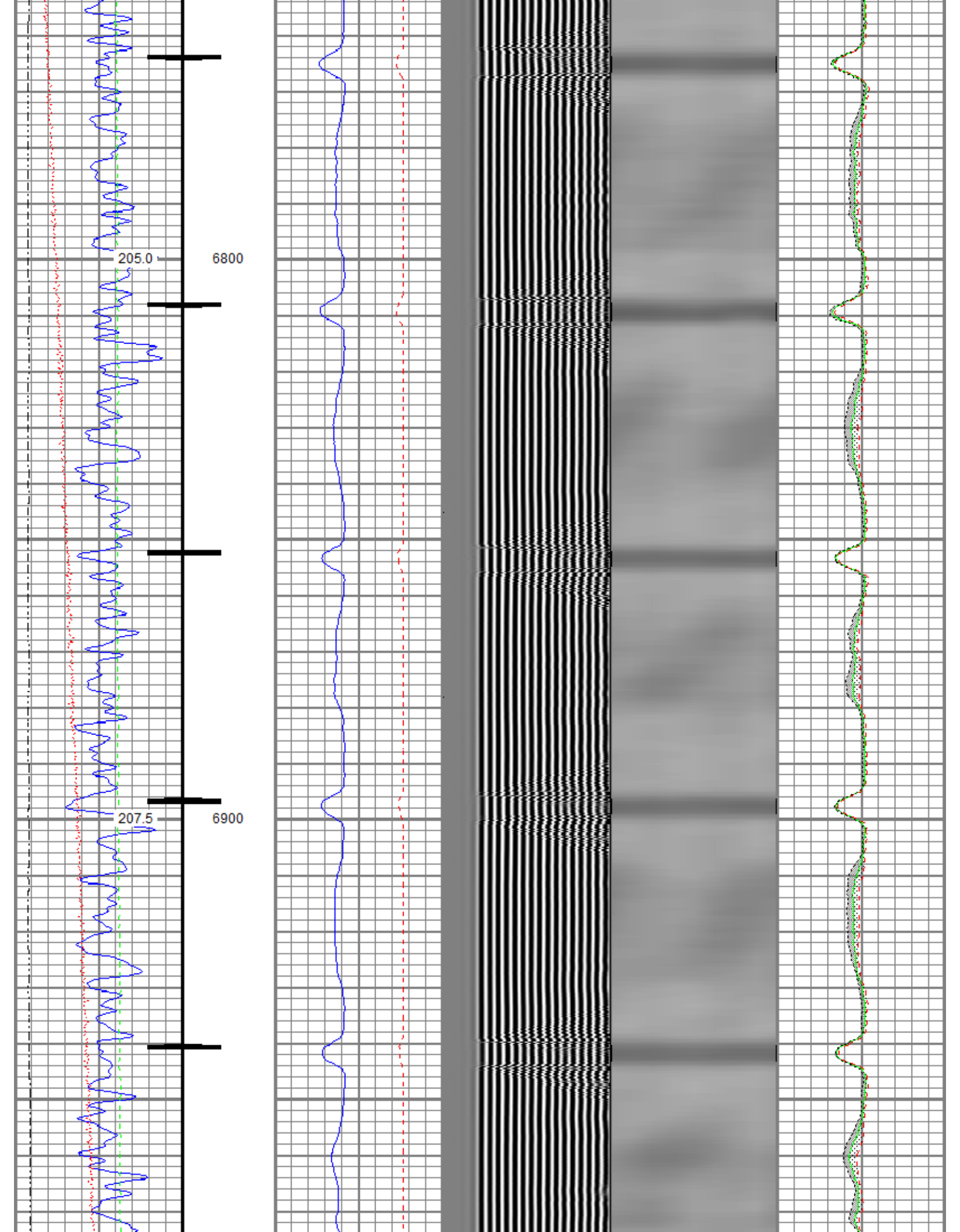


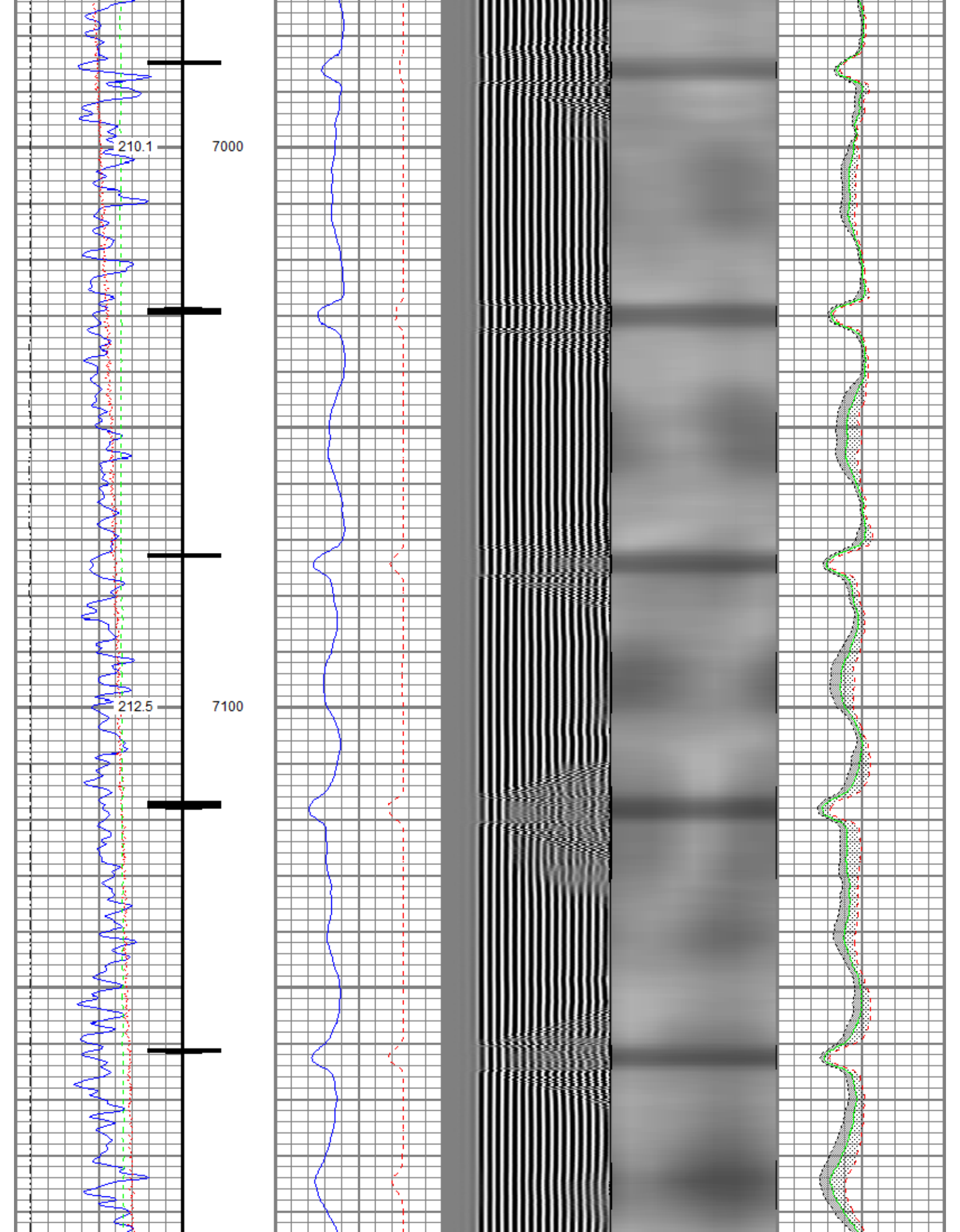


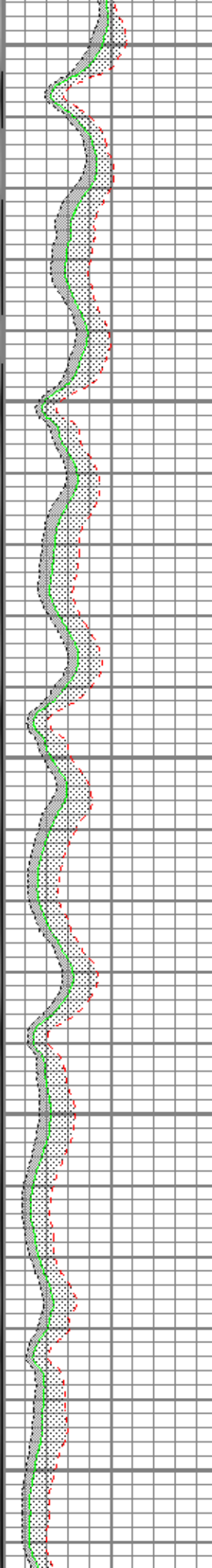
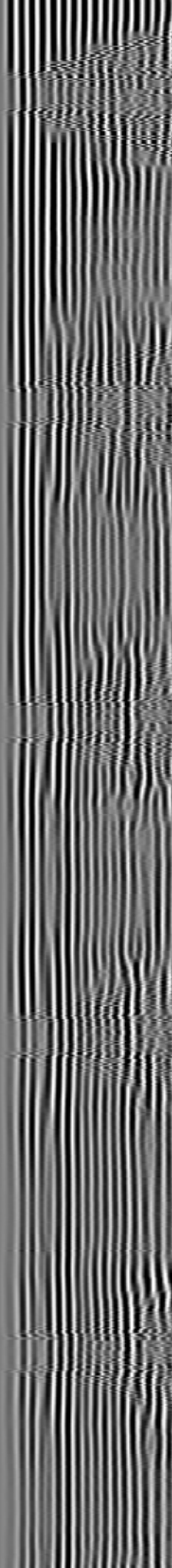
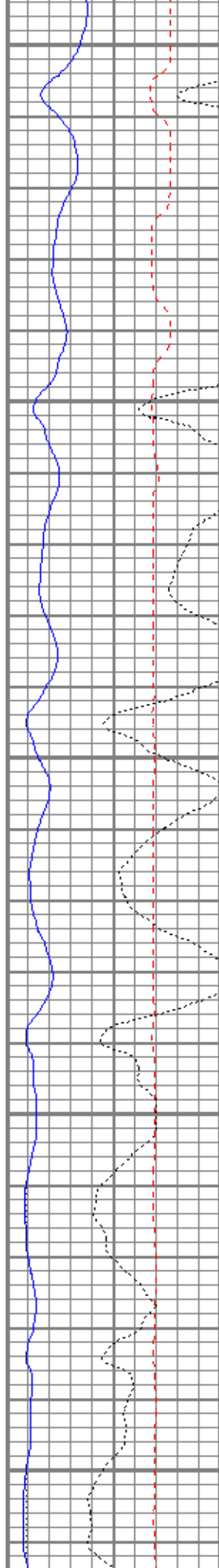
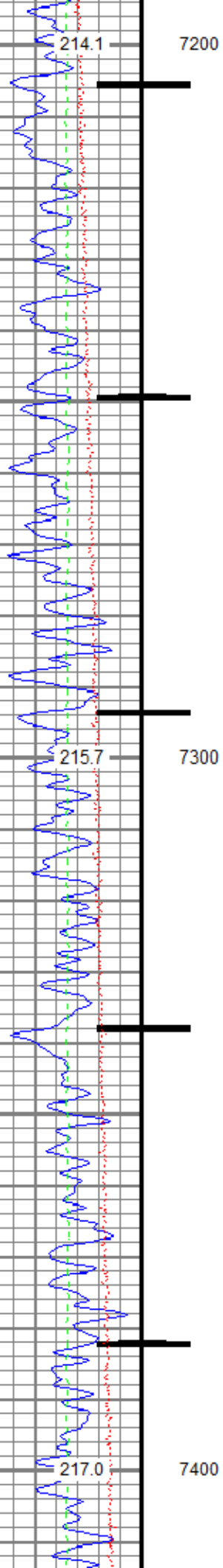


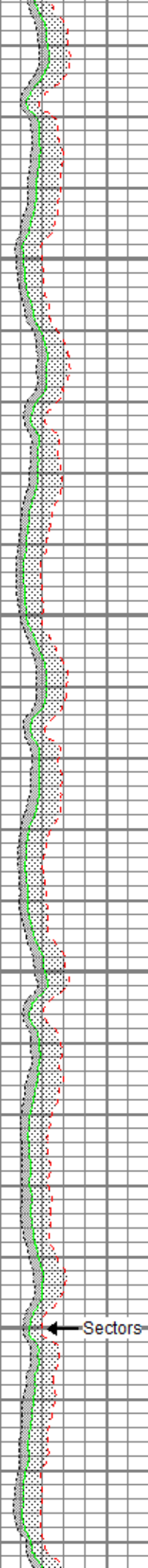
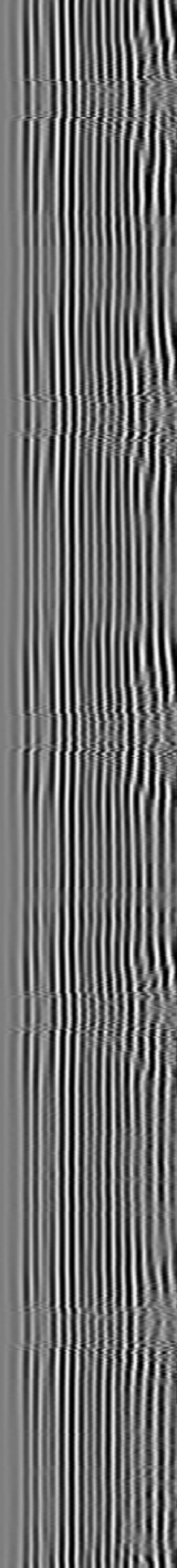
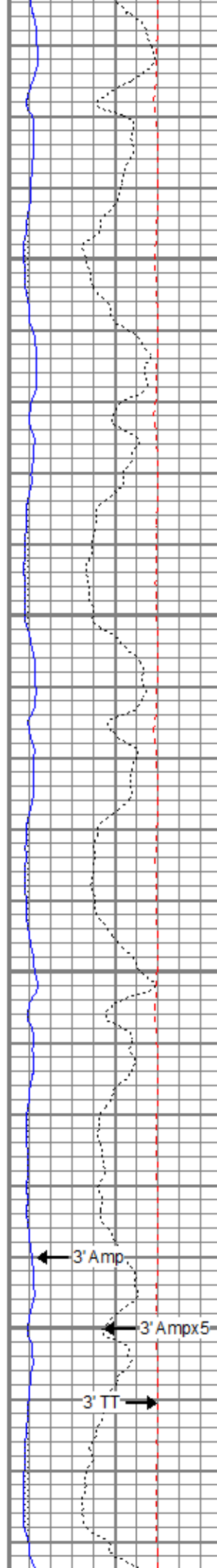
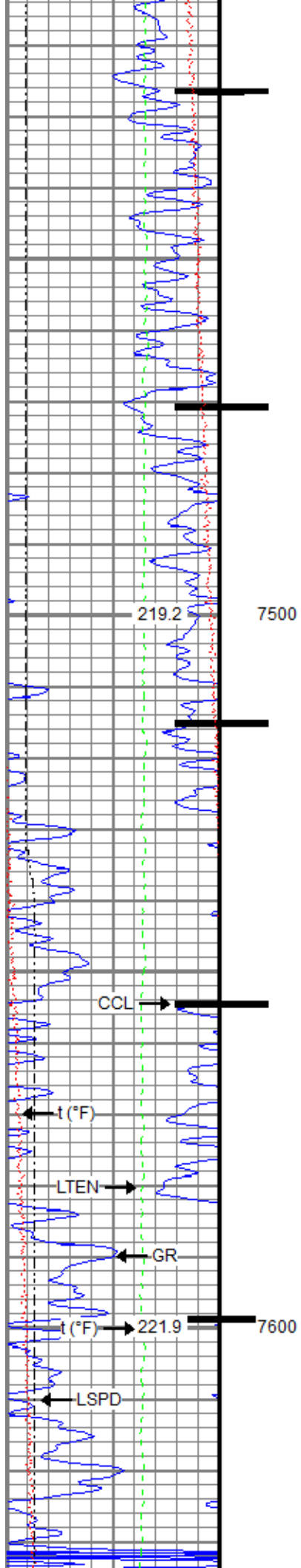


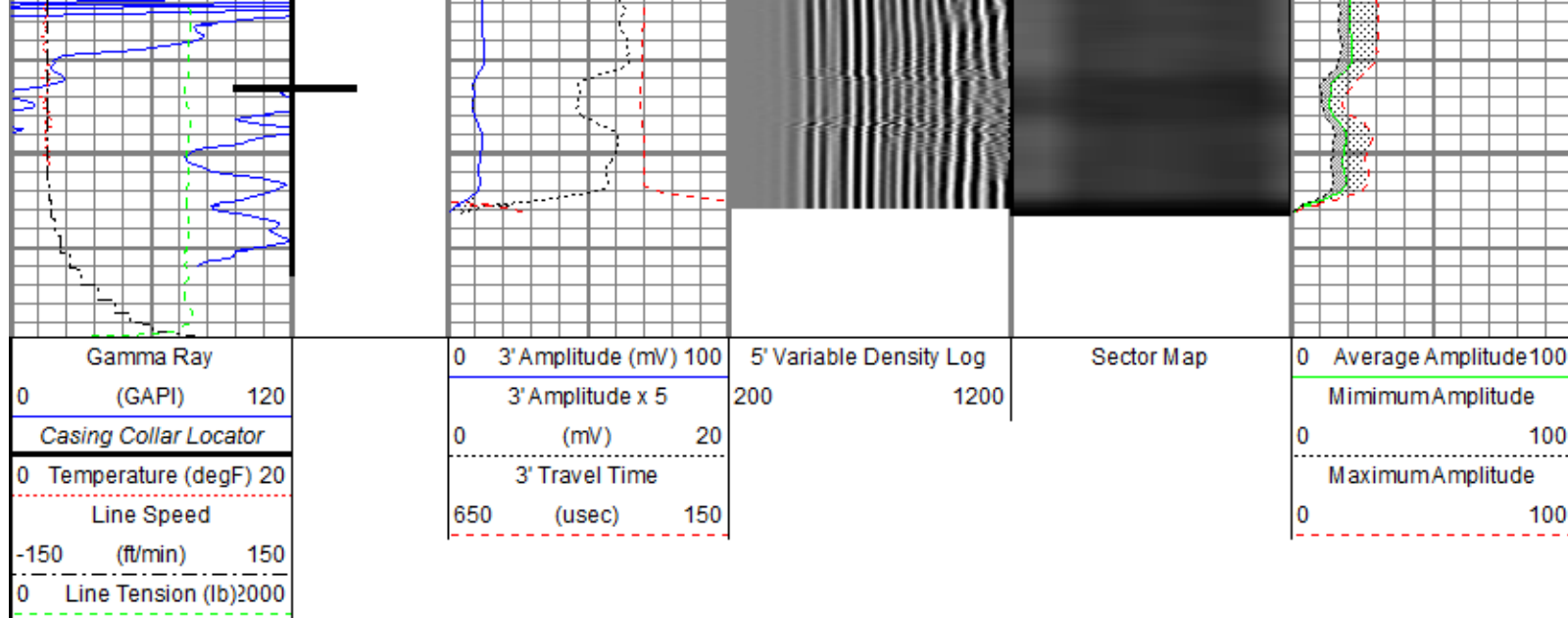








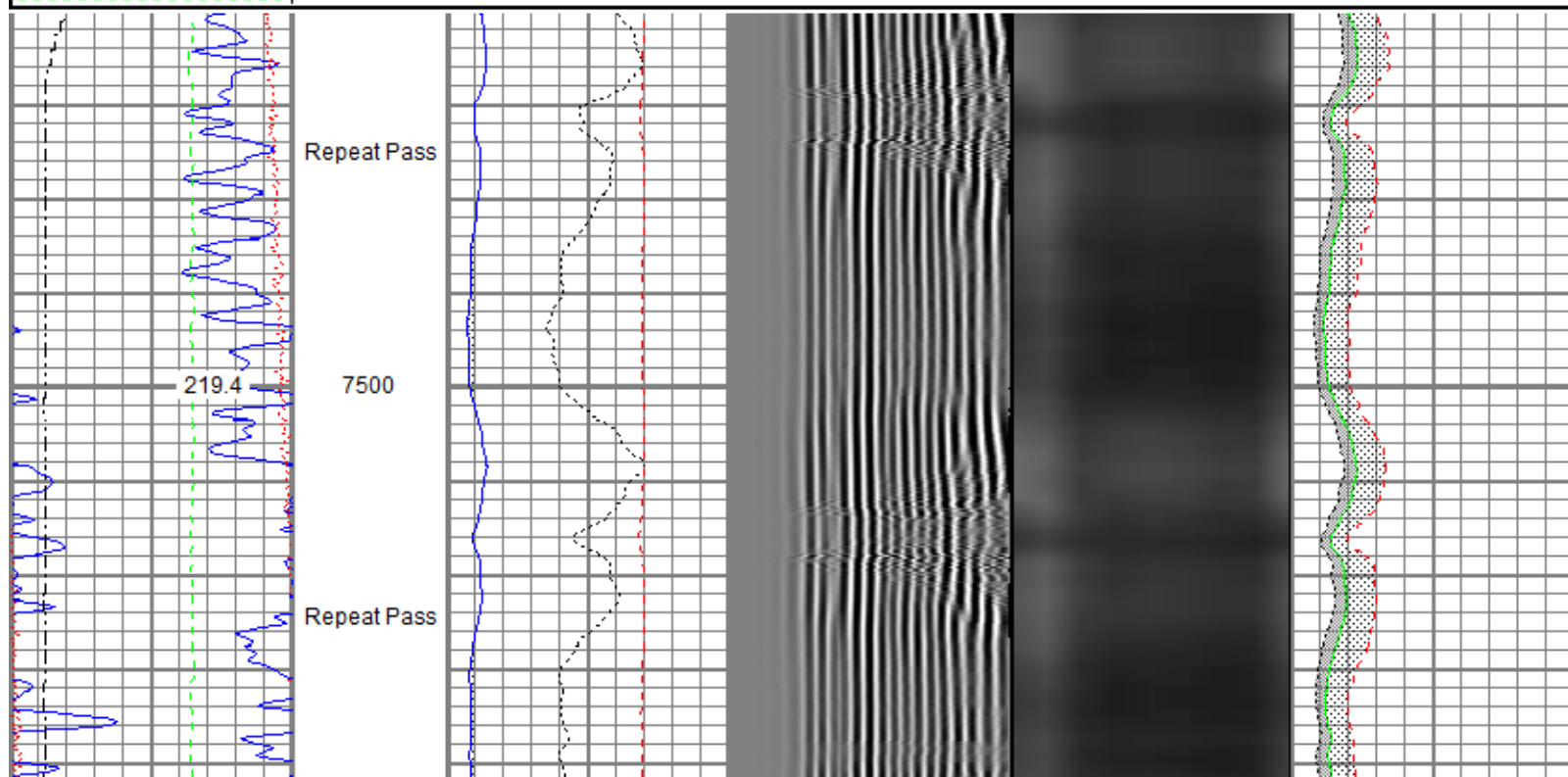
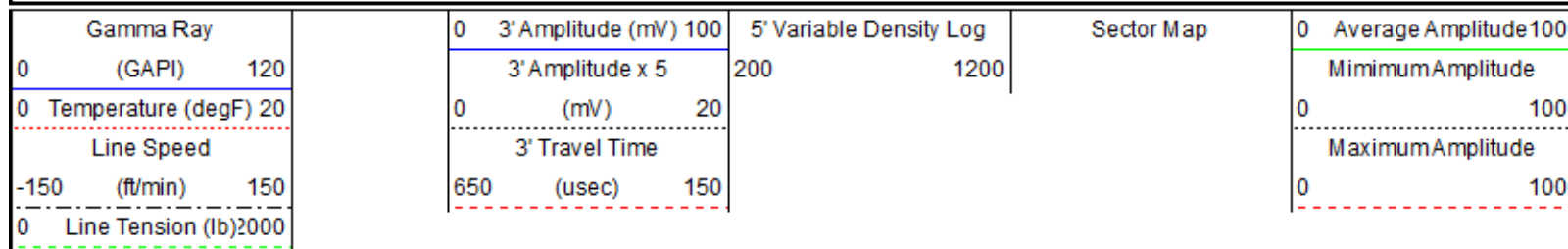


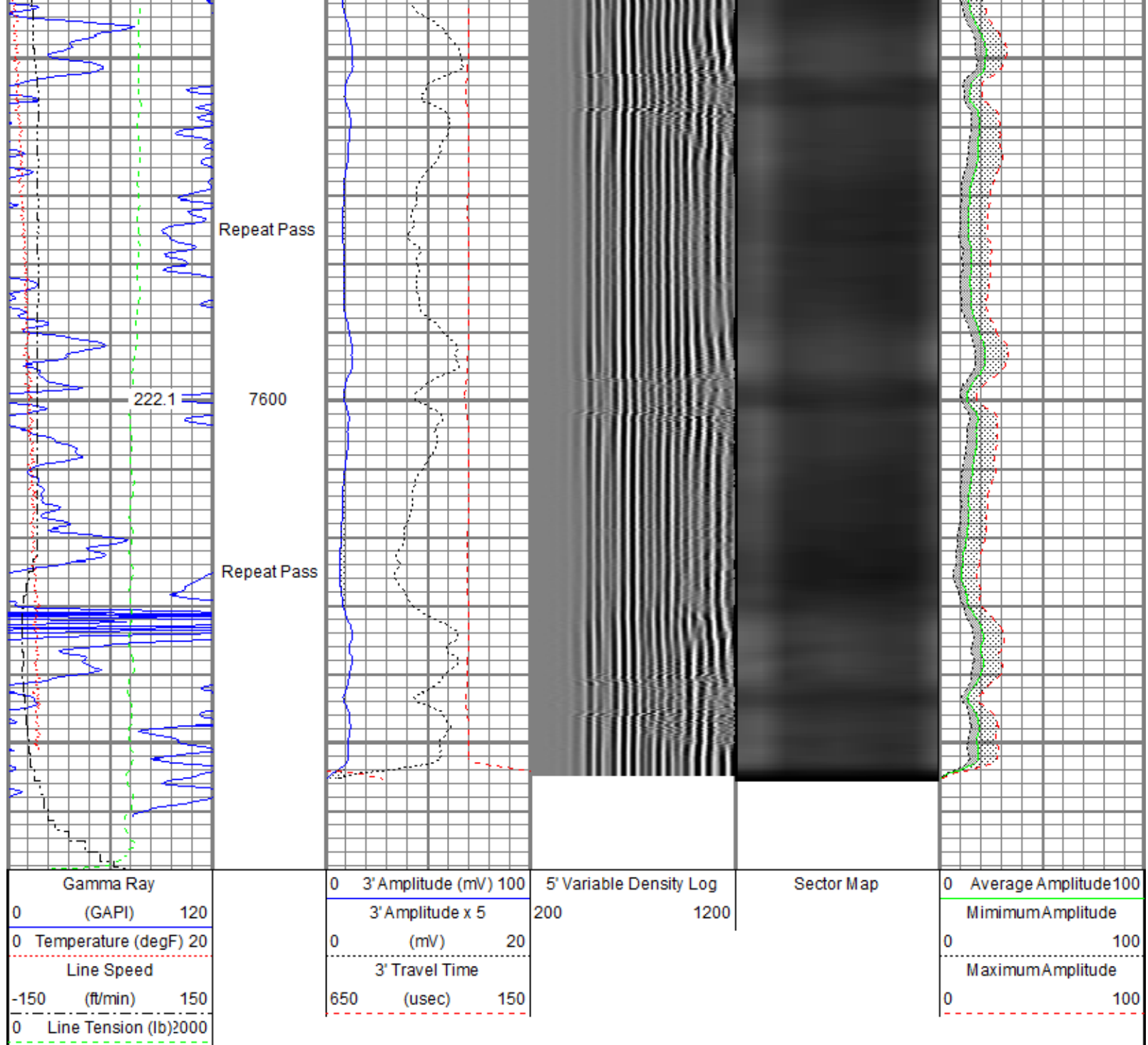



Repeat Pass

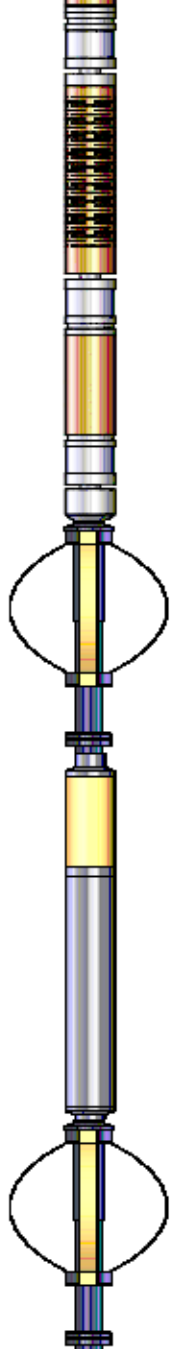
Recorded With 600 PSI Surface Induced Pressure

Database File fifth creek energy_critter creek 202-1807h_12-12-17/fifth creek energy_critter creek 202-1807h_12-12-17.db
 Dataset Pathname run/pass3.1
 Presentation Format ros_radrii
 Dataset Creation Fri Dec 15 09:10:47 2017
 Charted by Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
Titan	16.73		Titan_Electric_Cable_Heads-Titan_1-11/16" Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88 Probe 2-3/4" Electric Inline Bowspring Centralizer		2.75	20.00

Temp	16.72							
WVFS8	14.55			Probe_RADII-C-P_RBT_2750 (FW1302-002) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00	
WVFS7	14.55							
WVFS6	14.55							
WVFS5	14.55							
WVFS4	14.55							
WVFS3	14.55							
WVFS2	14.55							
WVFS1	14.55							
WVFCAL	14.55							
WVF3FT	14.55							
WVF5FT	13.55							
HeadVolt	10.30							
			Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00		
DCCL	6.51							
CCL	6.51							
GR	5.30		Probe_GR_CCL-P_CGR_2750_S (FW1212-026) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00		
			Probe_ELine_BowSpring_Centralizer-P_EBSC_2.88 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00		
Dataset: Fifth Creek Energy_Critter Creek 202-1807H_12-12-17.db: field/well/run/pass5.1 Total length: 23.40 ft Total weight: 225.40 lb O.D.: 2.75 in								

Calibration Report		
Database File	C:\ProgramData\Warrior\Data\Fifth Creek Energy_Critter Creek 202-1807H_12-12-17\Fifth Creek Energy_Critter Creek 202-1807H_12-12-17	
Dataset Pathname	run/pass5.1	
Dataset Creation	Tue Dec 12 12:37:54 2017	
Gamma Ray Calibration Report		
Serial Number:	FW1212-026	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:32:54 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.6	cps
Sensitivity:	0.6061	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
 Tool Model: P_RBT_2750

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 6.932 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.381	0.800	71.921	187.007	0.586
CAL	0.338	0.001				
5'	0.001	0.467	0.800	71.921	152.674	0.652
SUM						
S1	-0.001	0.416	0.000	100.000	240.321	0.132
S2	0.001	0.404	0.000	100.000	247.966	-0.259
S3	0.001	0.410	0.000	100.000	244.806	-0.348
S4	0.001	0.404	0.000	100.000	247.829	-0.173
S5	0.001	0.419	0.000	100.000	239.317	-0.346
S6	0.002	0.441	0.000	100.000	227.542	-0.357
S7	0.000	0.430	0.000	100.000	232.984	-0.116
S8	0.001	0.431	0.000	100.000	232.592	-0.330

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.338	0.001	1.000	0.000

Air Zero Calibration, performed Tue Dec 12 10:44:28 2017:

	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 Fifth Creek Energy
Well Critter Creek 202-1807H
Field Hereford
County Weld
State Colorado