



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company		Kerr-McGee Oil and Gas Onshore LP			
Well		Sawdey Gladys 1			
Field		Wattenberg			
County		Weld			
State		Colorado			
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Well		Sawdey Gladys 1			
Field		Wattenberg			
County		Weld			
State		Colorado			
Location:		API # : 05-123-12476			
SEC 30 TWP 2N RGE 68W		Other Services None			
Permanent Datum		Ground Level		Elevation	
Log Measured From		Kelly Bushing 11 FT		5000'	
Drilling Measured From		Kelly Bushing		K.B. 5011' D.F. 5010' G.L. 5000'	
Date		13-November 2015			
Run Number		One			
Depth Driller		8200 FT			
Depth Logger		4202 FT			
Bottom Logged Interval		4198 FT			
Top Log Interval		Surface			
Open Hole Size		7.875"			
Type Fluid		Water			
Density / Viscosity		8.34 lbm/gal			
Max. Recorded Temp.		147°F			
Estimated Cement Top		530 FT			
Time Well Ready		ROA			
Time Logger on Bottom		8:50 AM			
Equipment Number		HD-0331			
Location		Ft. Lupton			
Recorded By		B. Kalkwarf			
Witnessed By		Nick Lance			
Borehole Record		Tubing Record			
Run Number		Bit		From	
		To		Size	
				Weight	
				From	
				To	
Casing Record		Size (in)		Wgt (lbs/ft)	
Surface Casing		8.5/8		28	
Intermediate #1		5.1/2		17	
Intermediate #2					
Inner					

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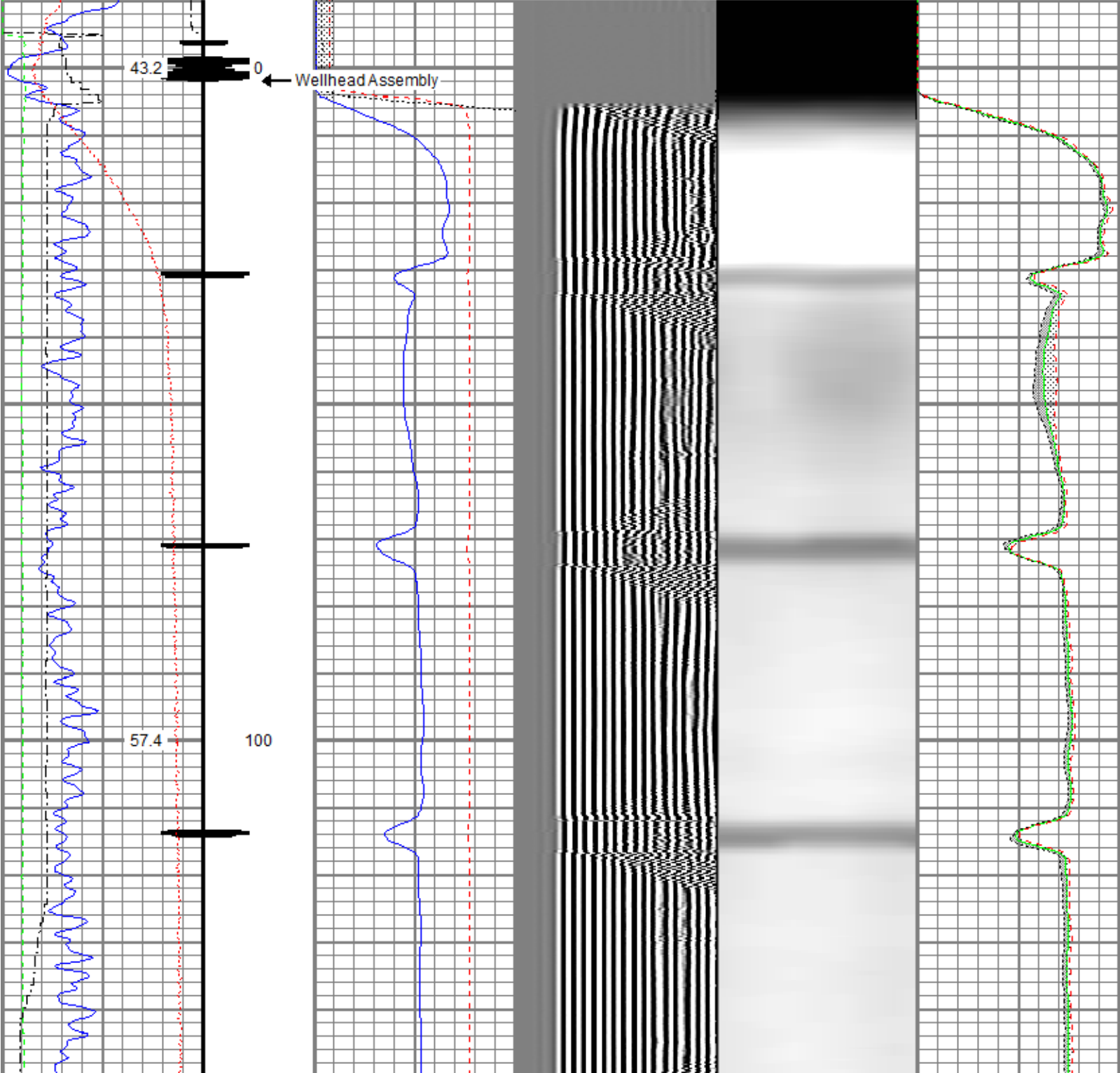
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

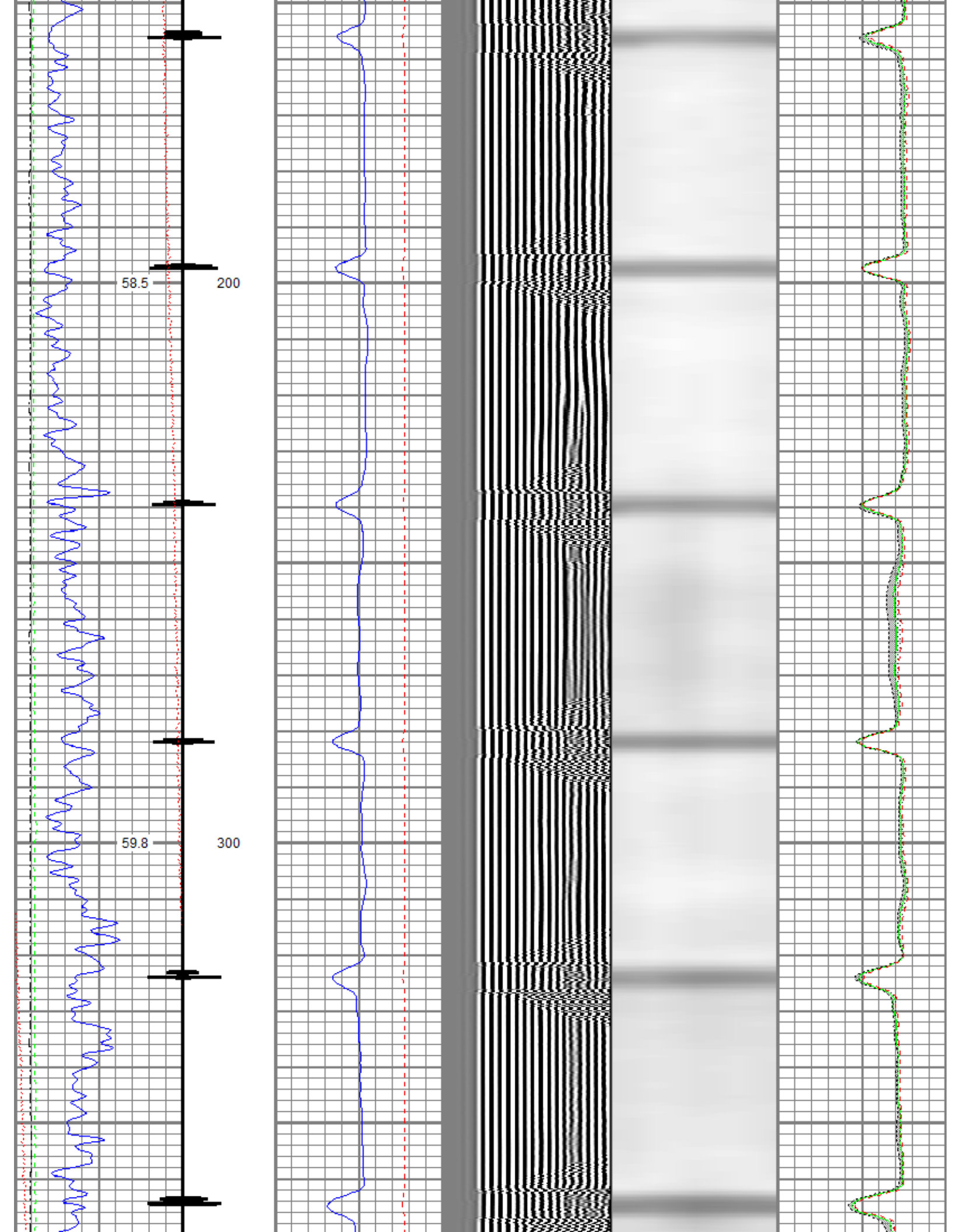
Comments

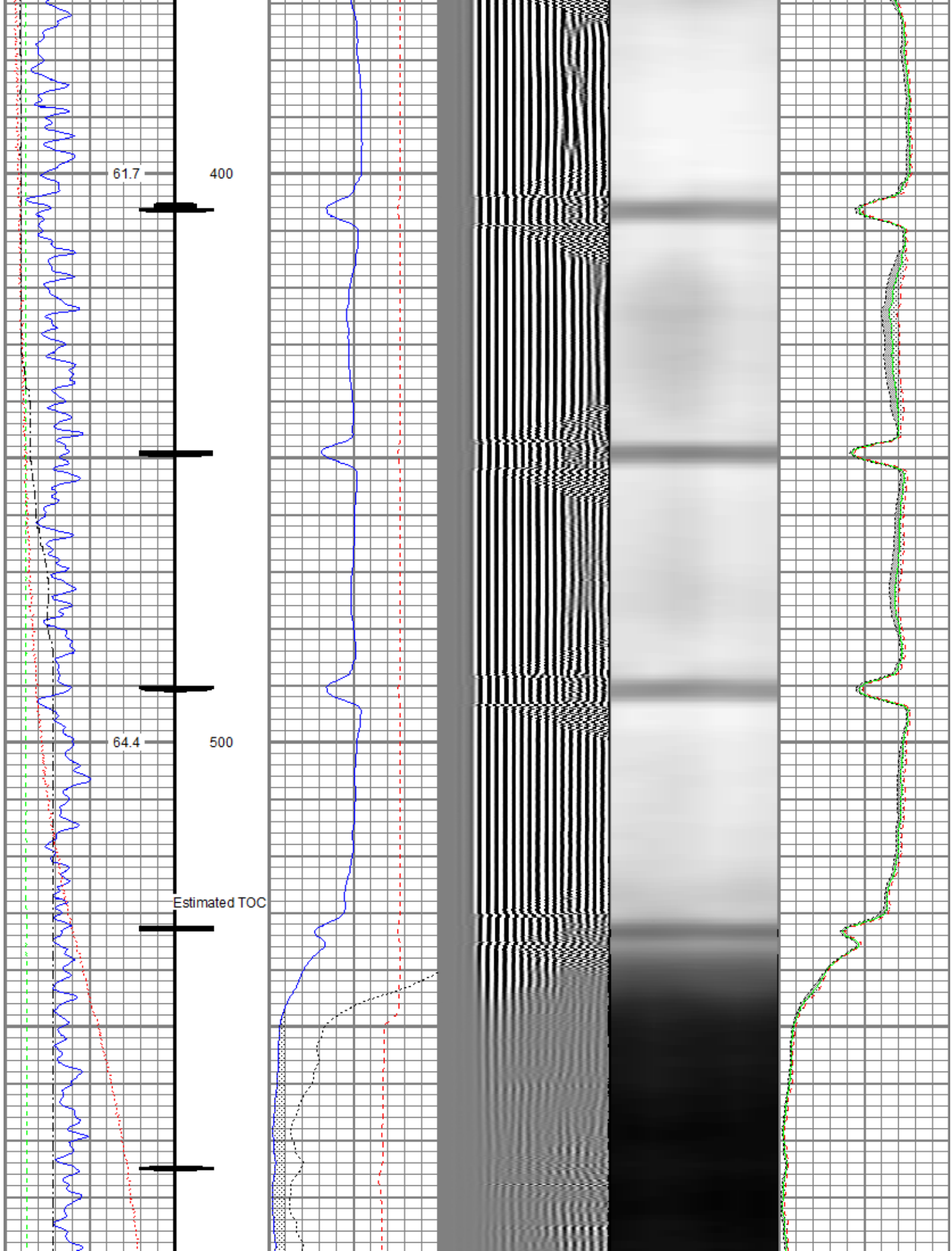
Log ran as per customer request.
Depth referenced to Kelly Bushing 11 FT.
Adjusted log -7 FT to correlate with Cement Bond Log Dated 29-Dec-2008.
Correlated to Gamma Ray Curve at 4027 FT.
Log ran with 0 PSI Surface Induced Pressure
Logging tools were clean and free of any debris upon completion of operations.

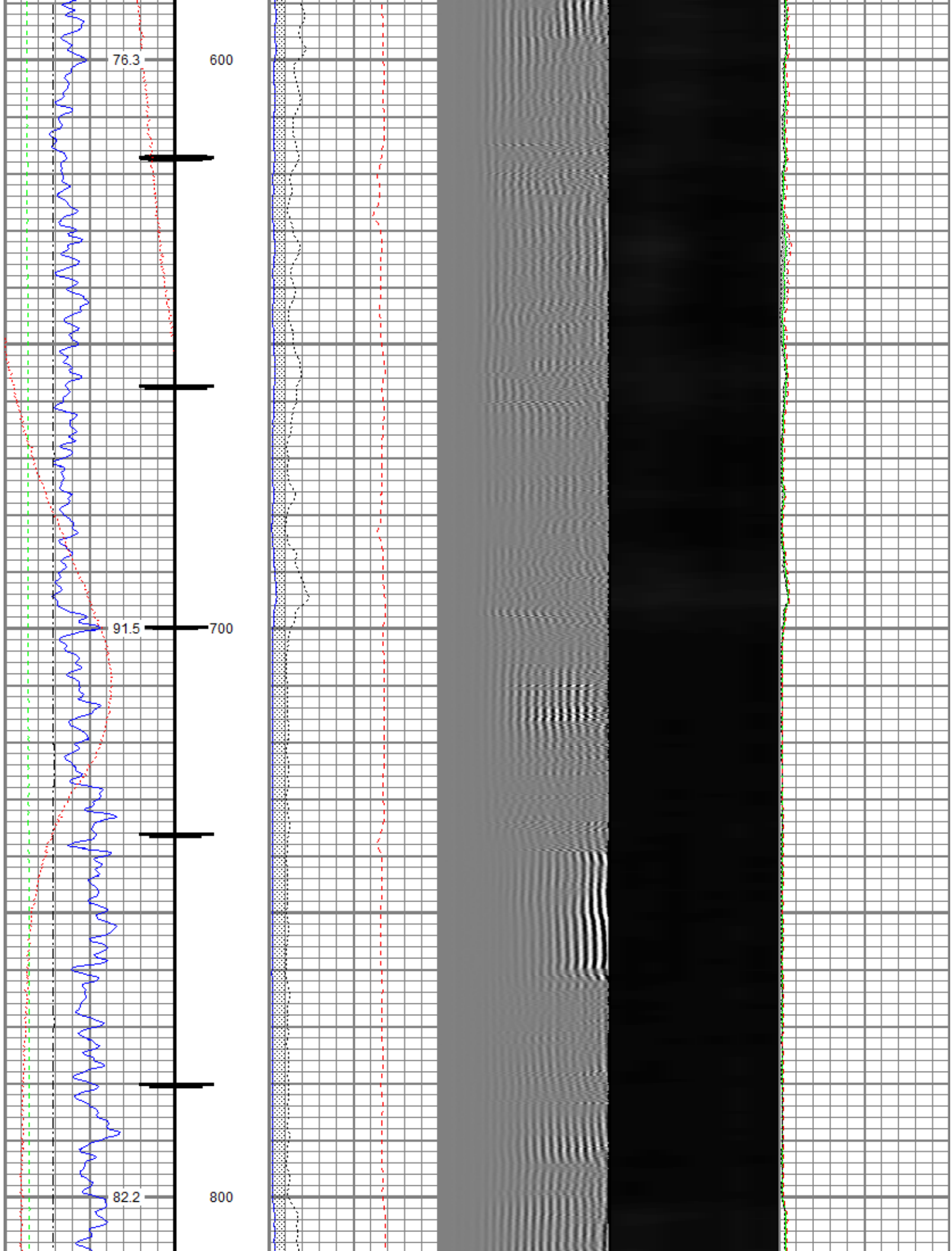
Database File:	anadarko_sawdey_glads_1_rcbl.db
Dataset Pathname:	pass10
Presentation Format:	radii
Dataset Creation:	Fri Nov 13 08:58:05 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

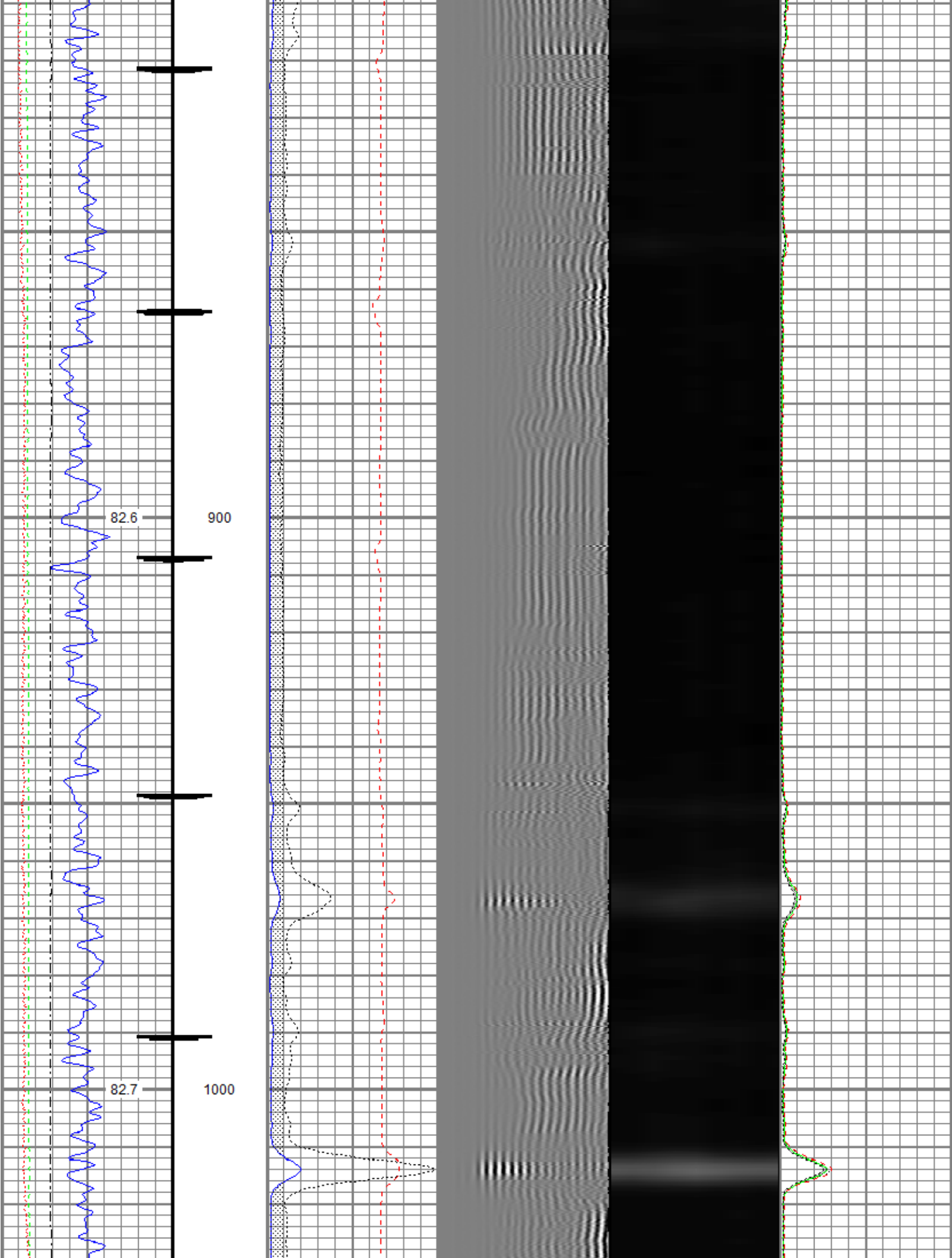
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
(ft/min) 150						
Line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

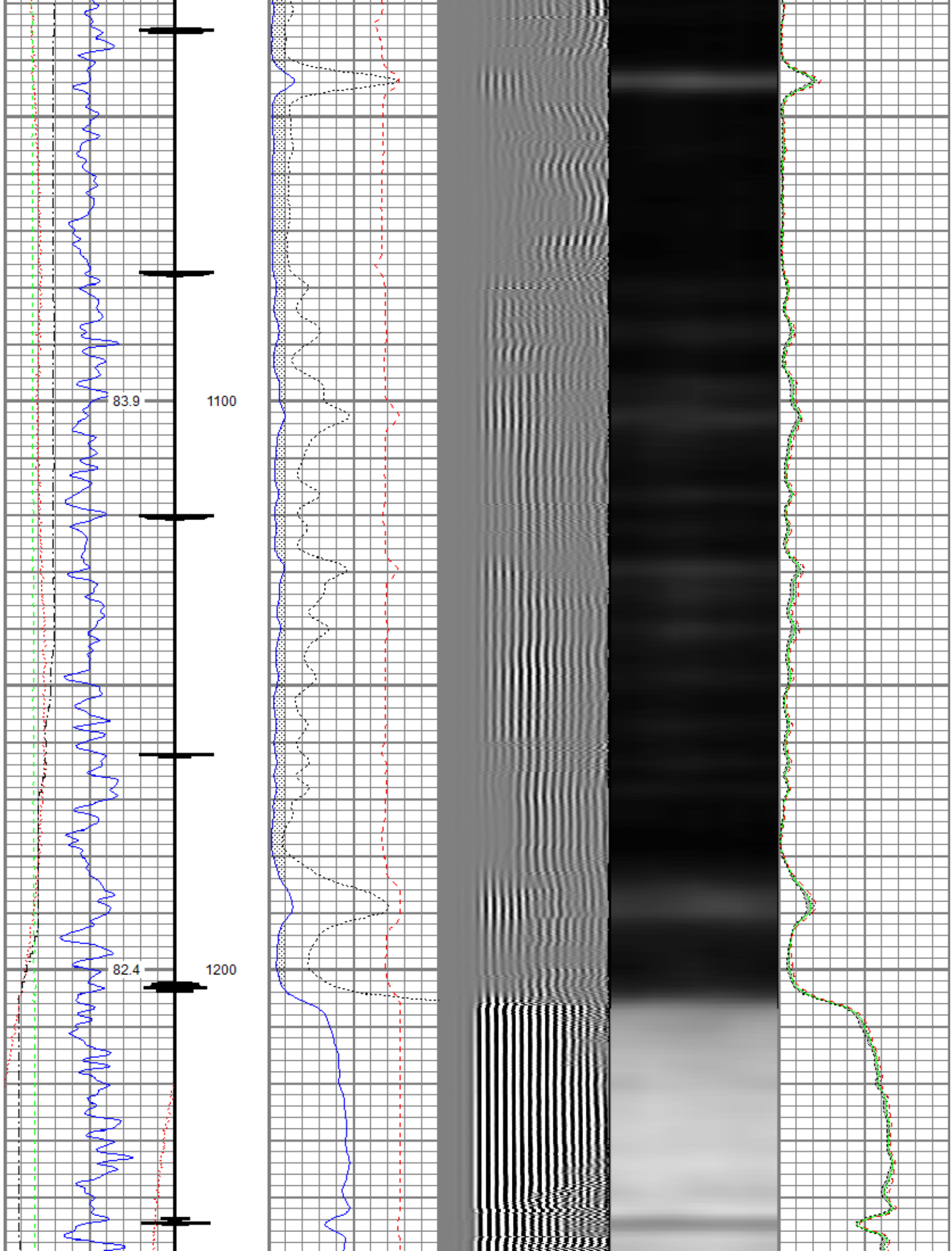


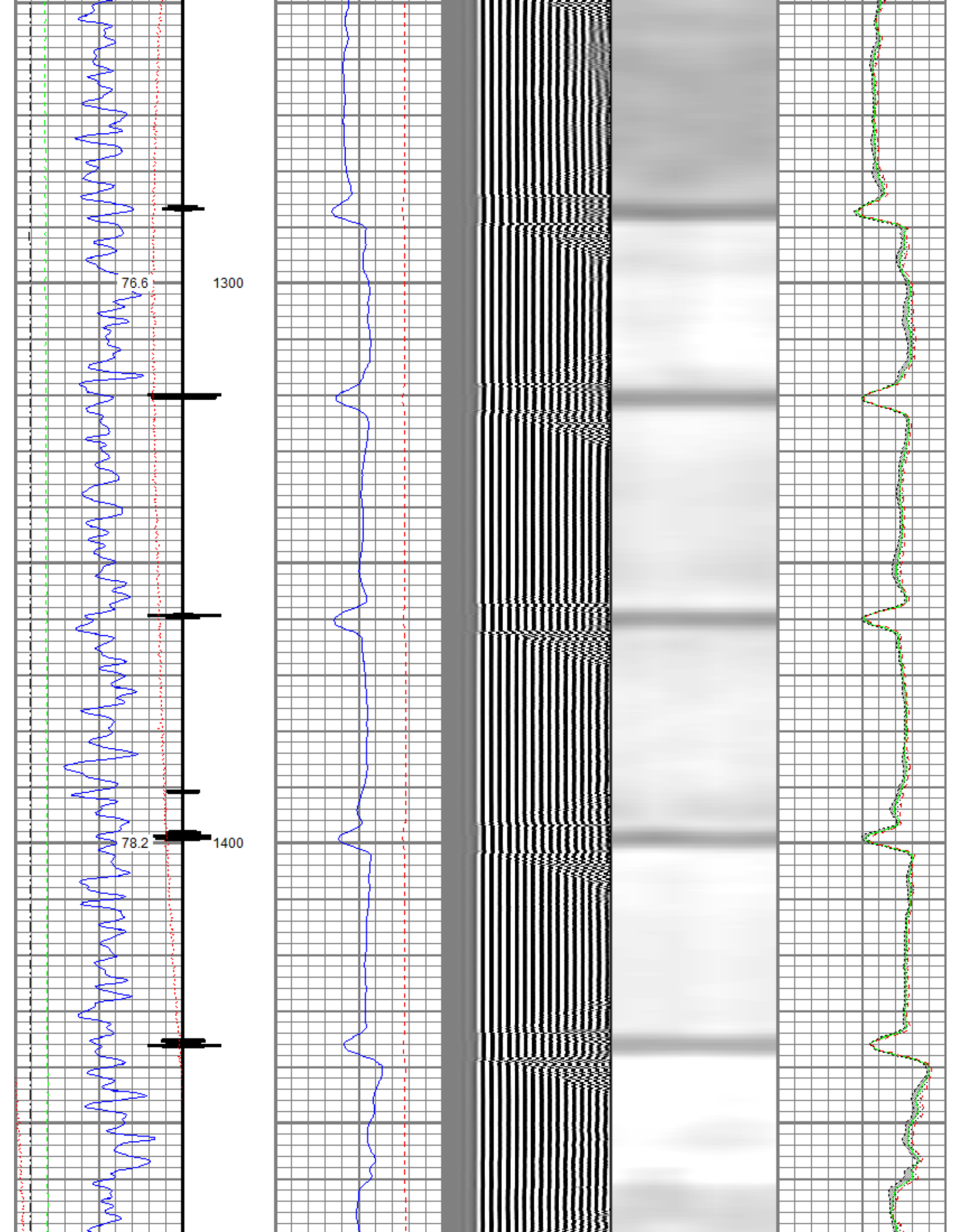


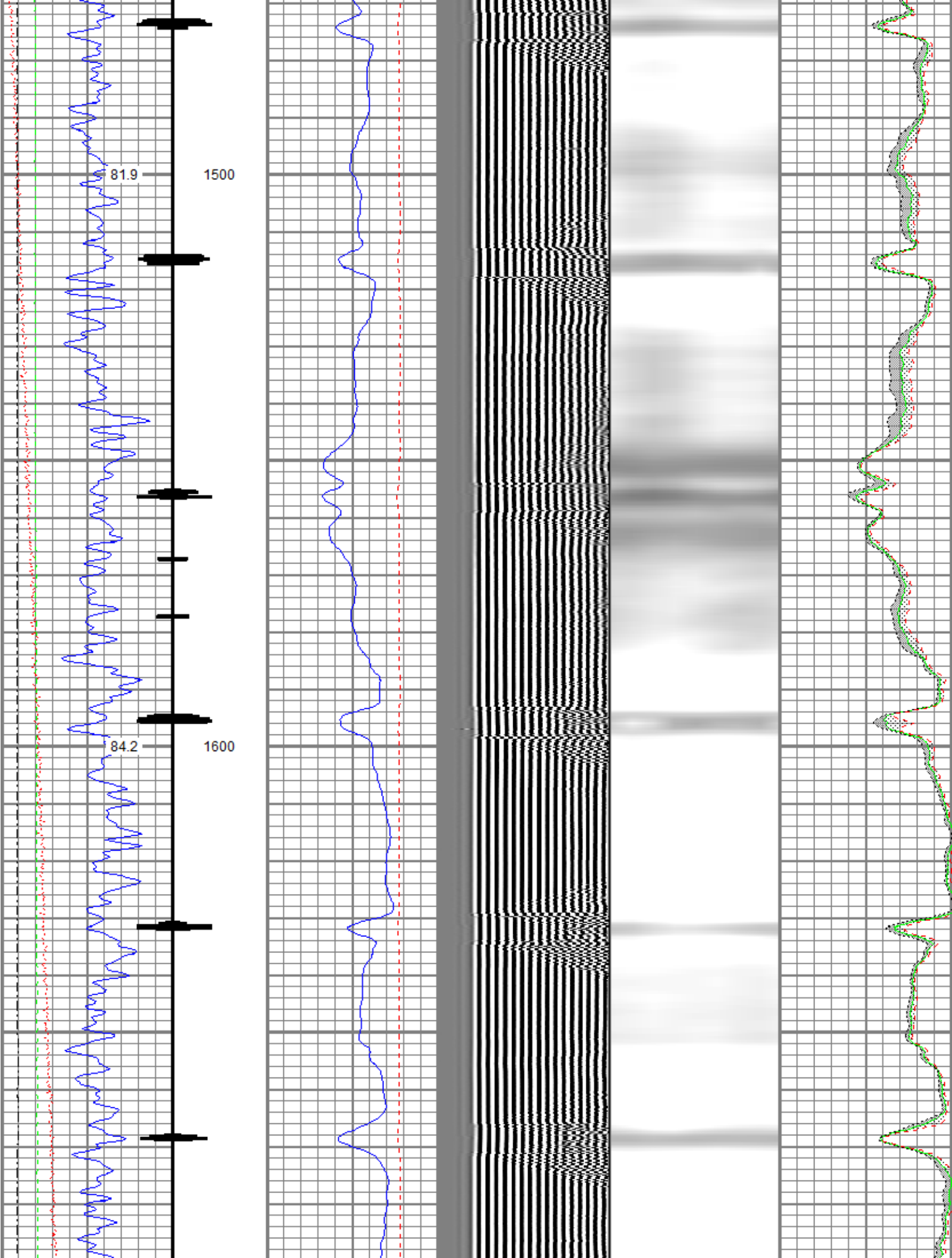


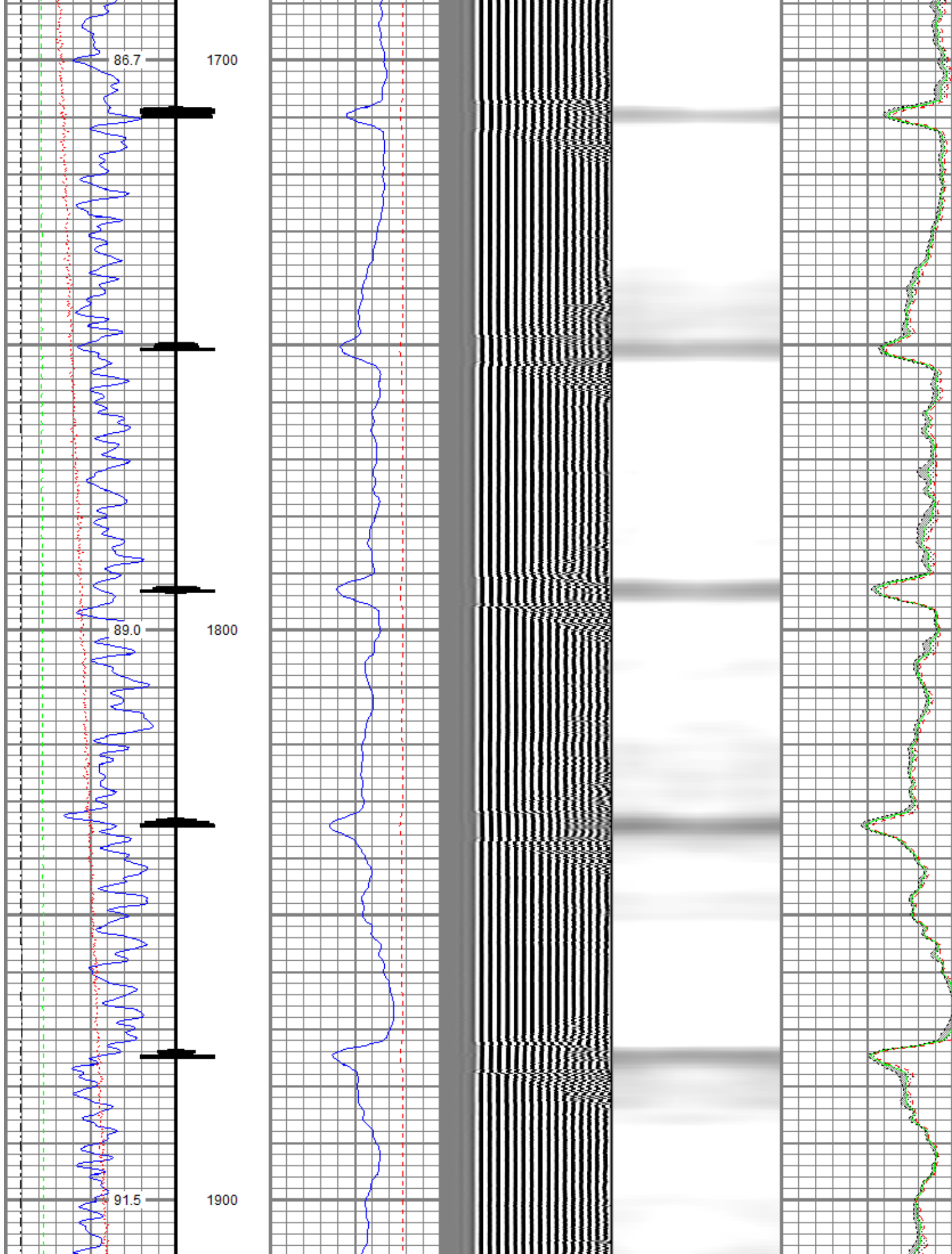


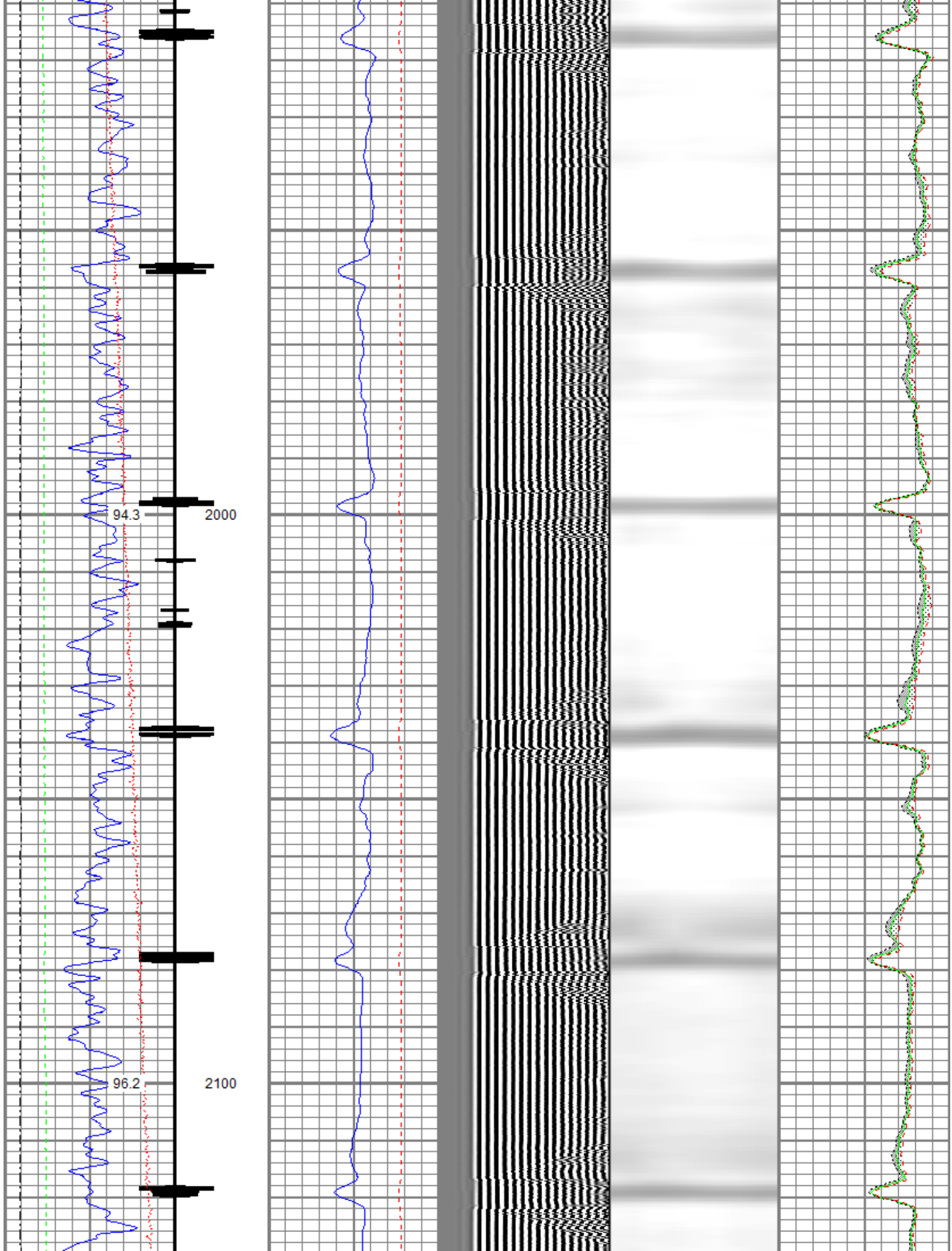


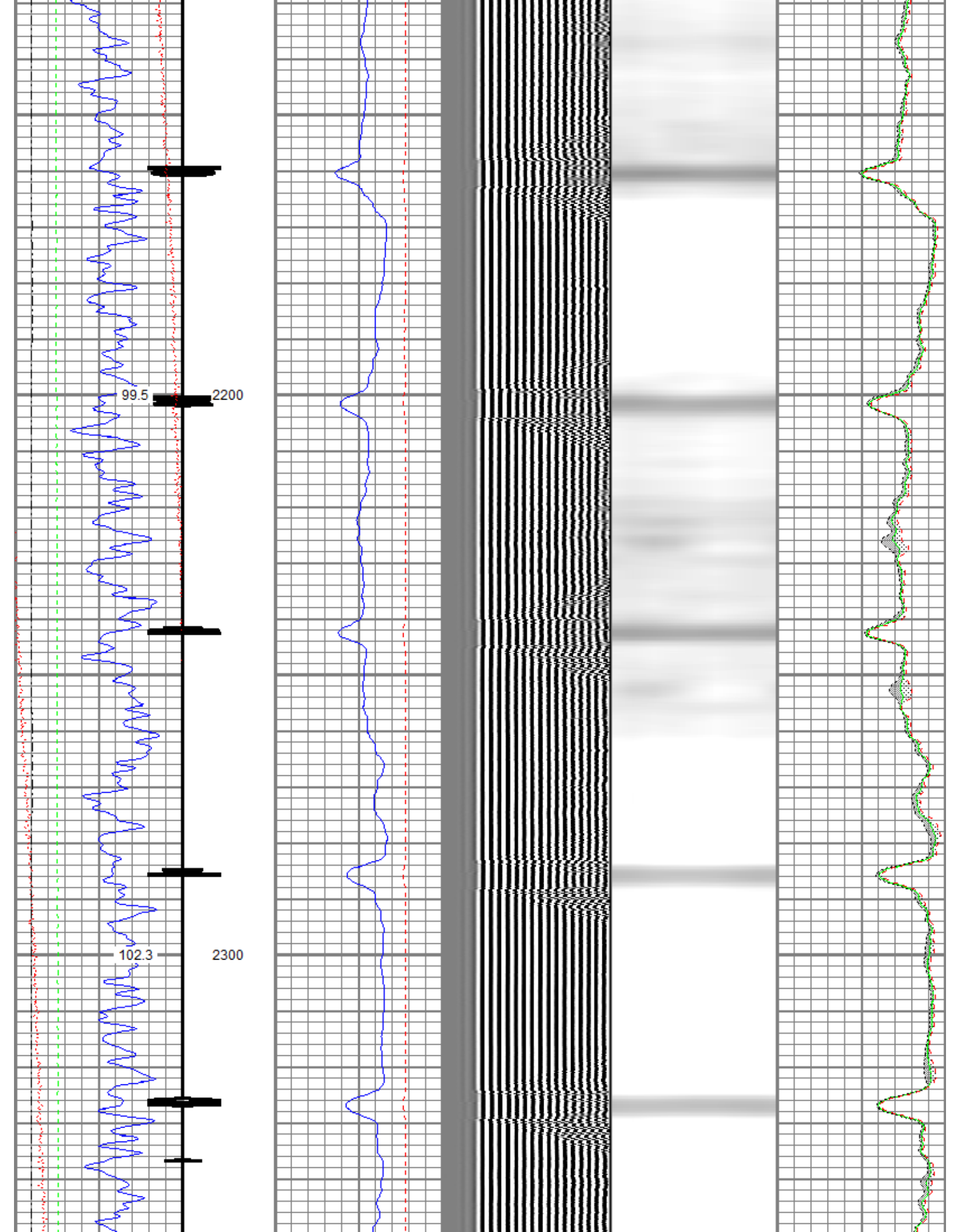


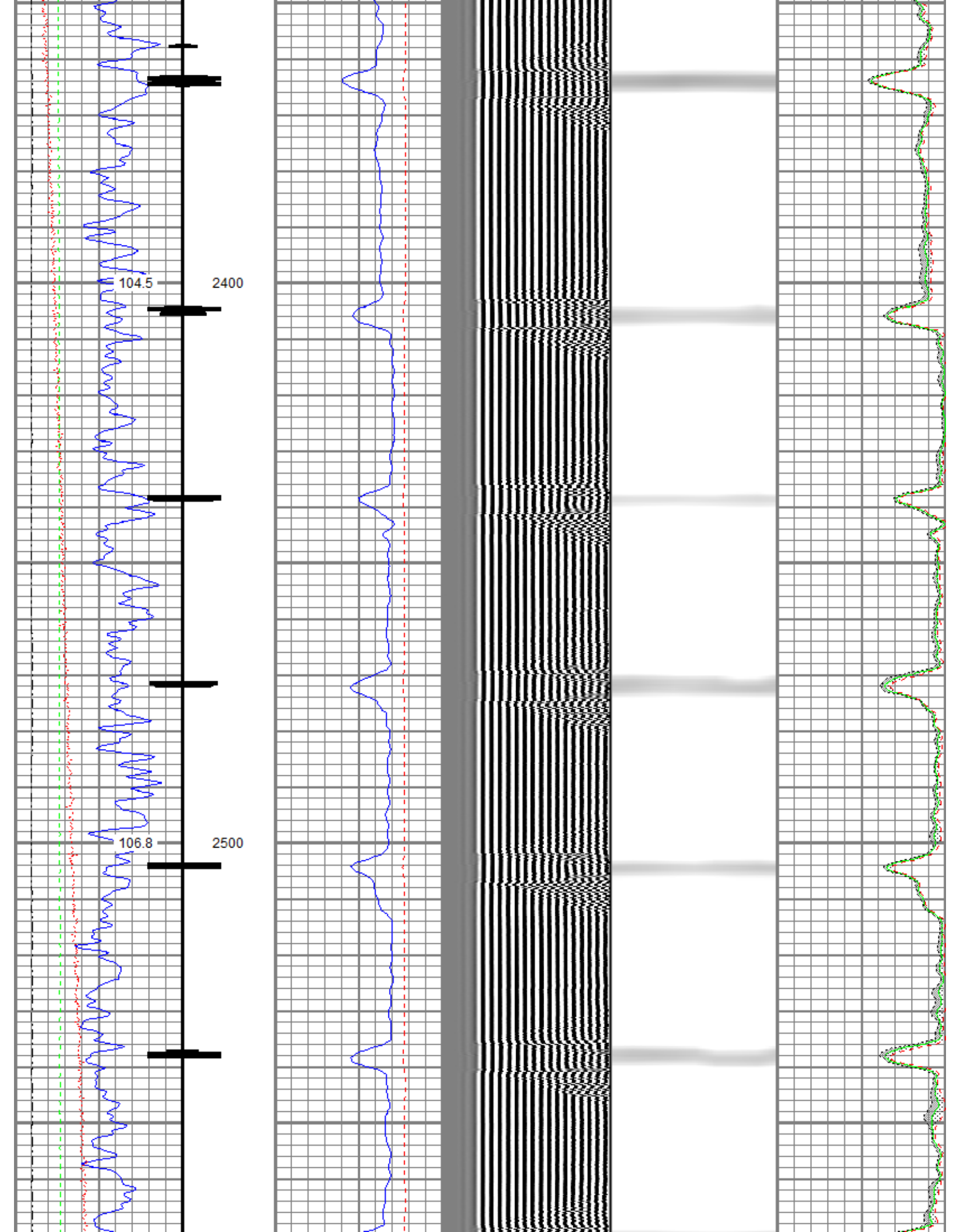


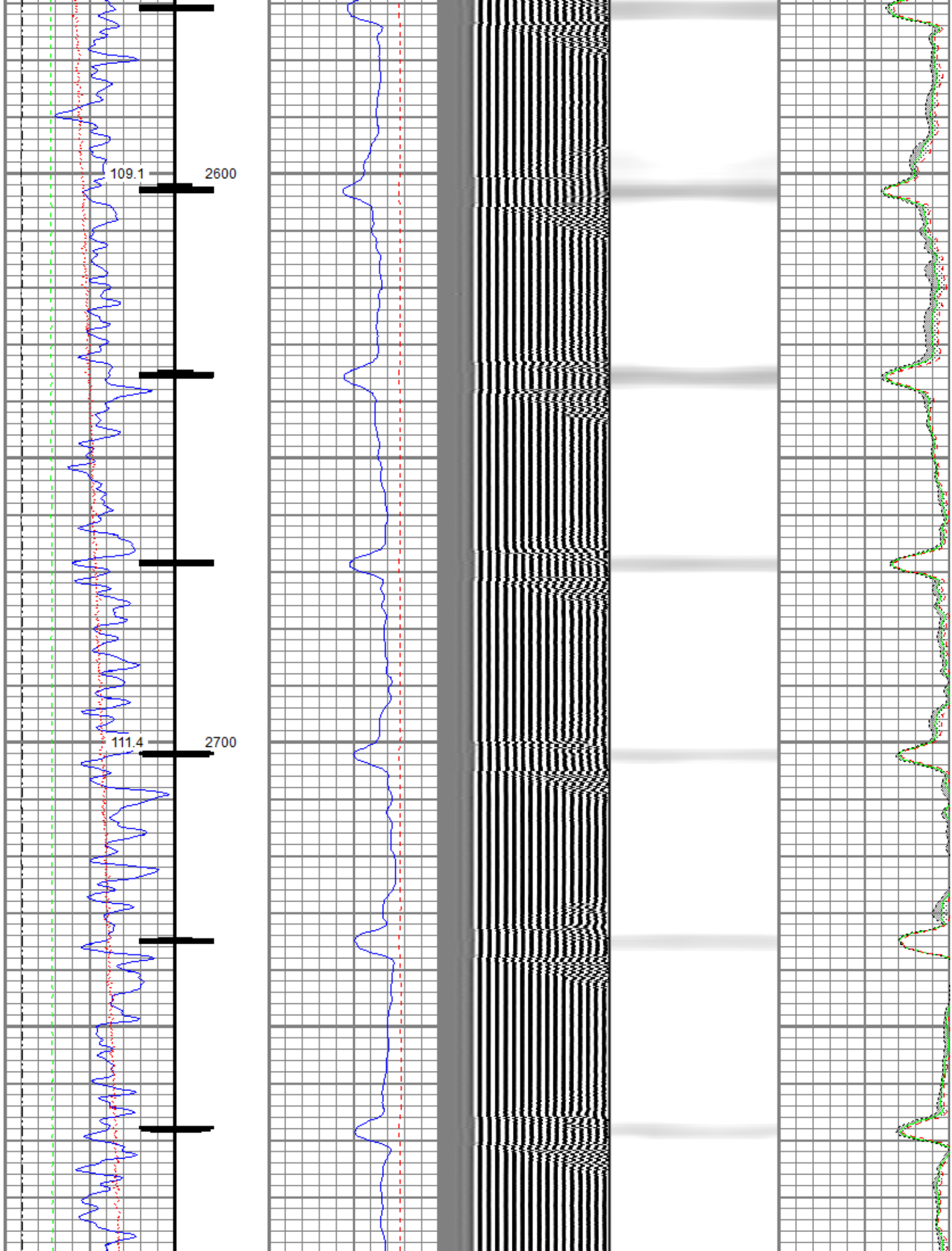


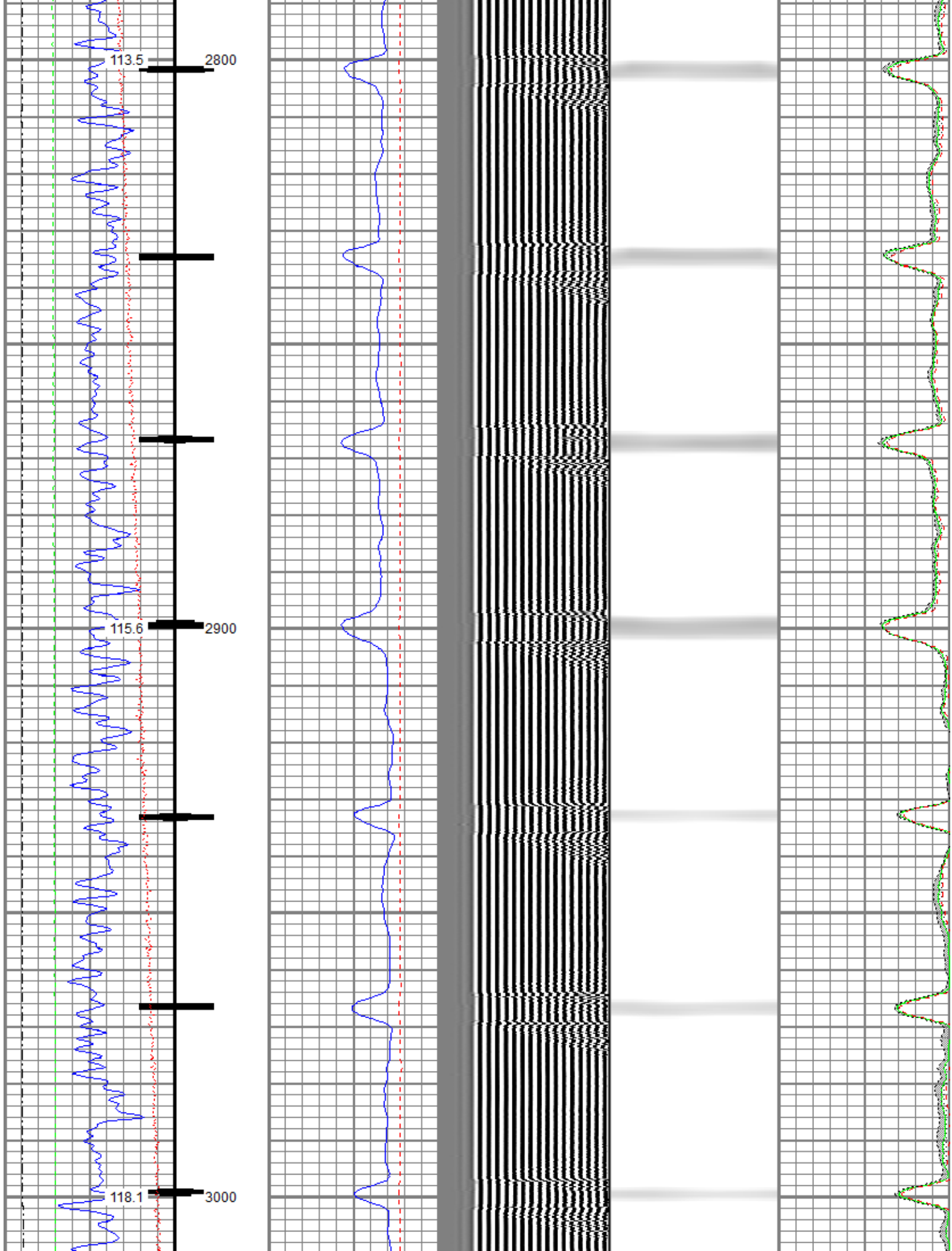


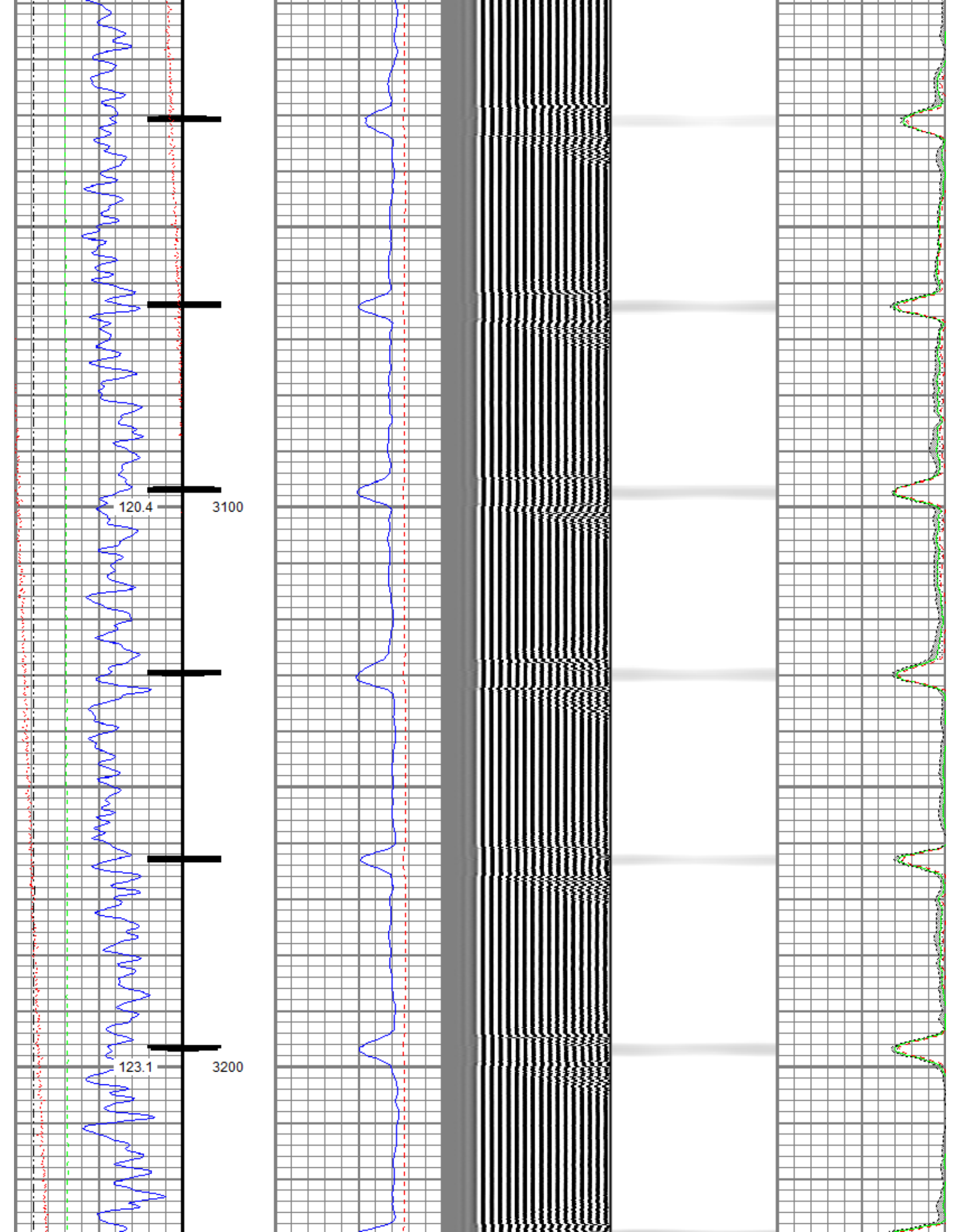


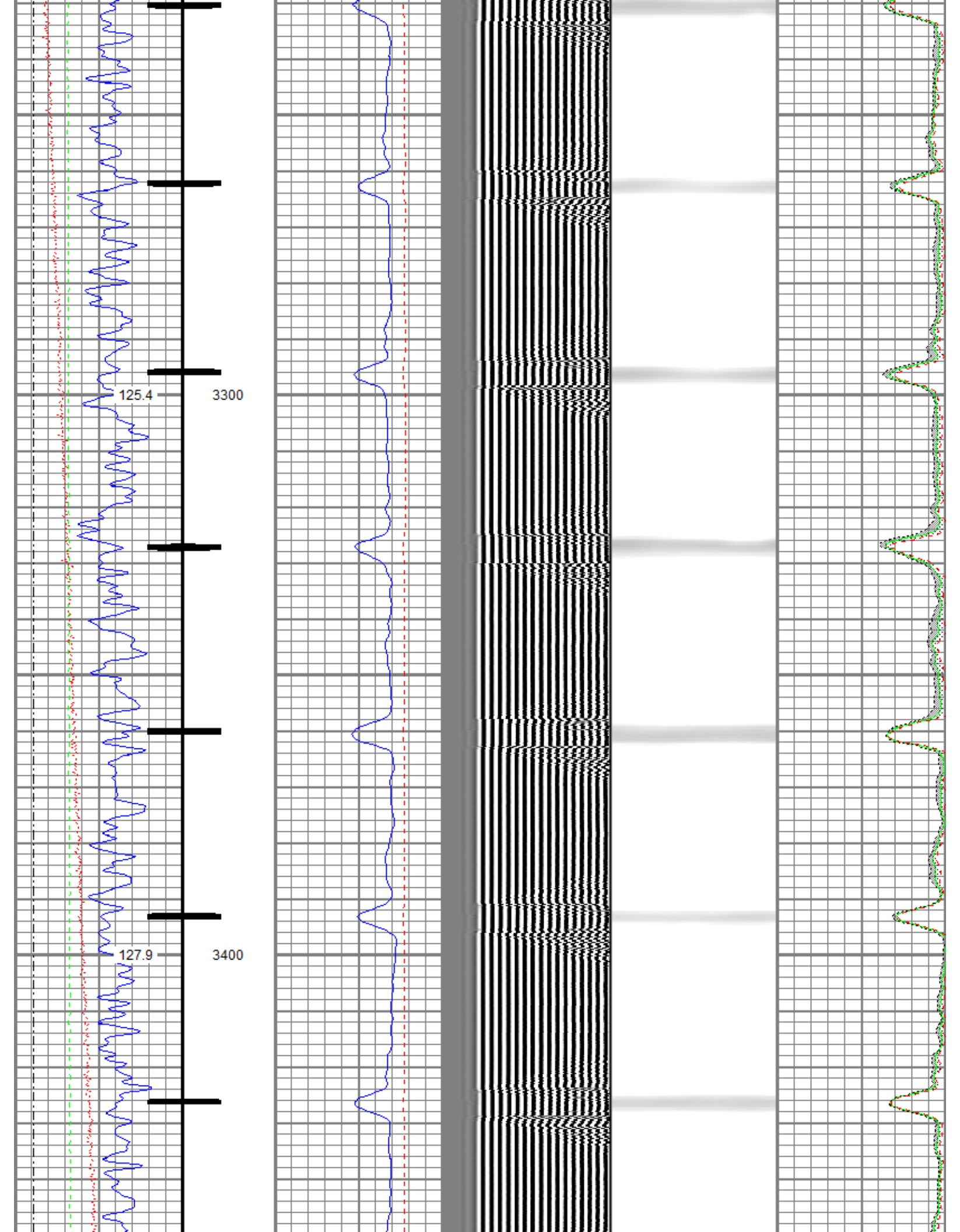


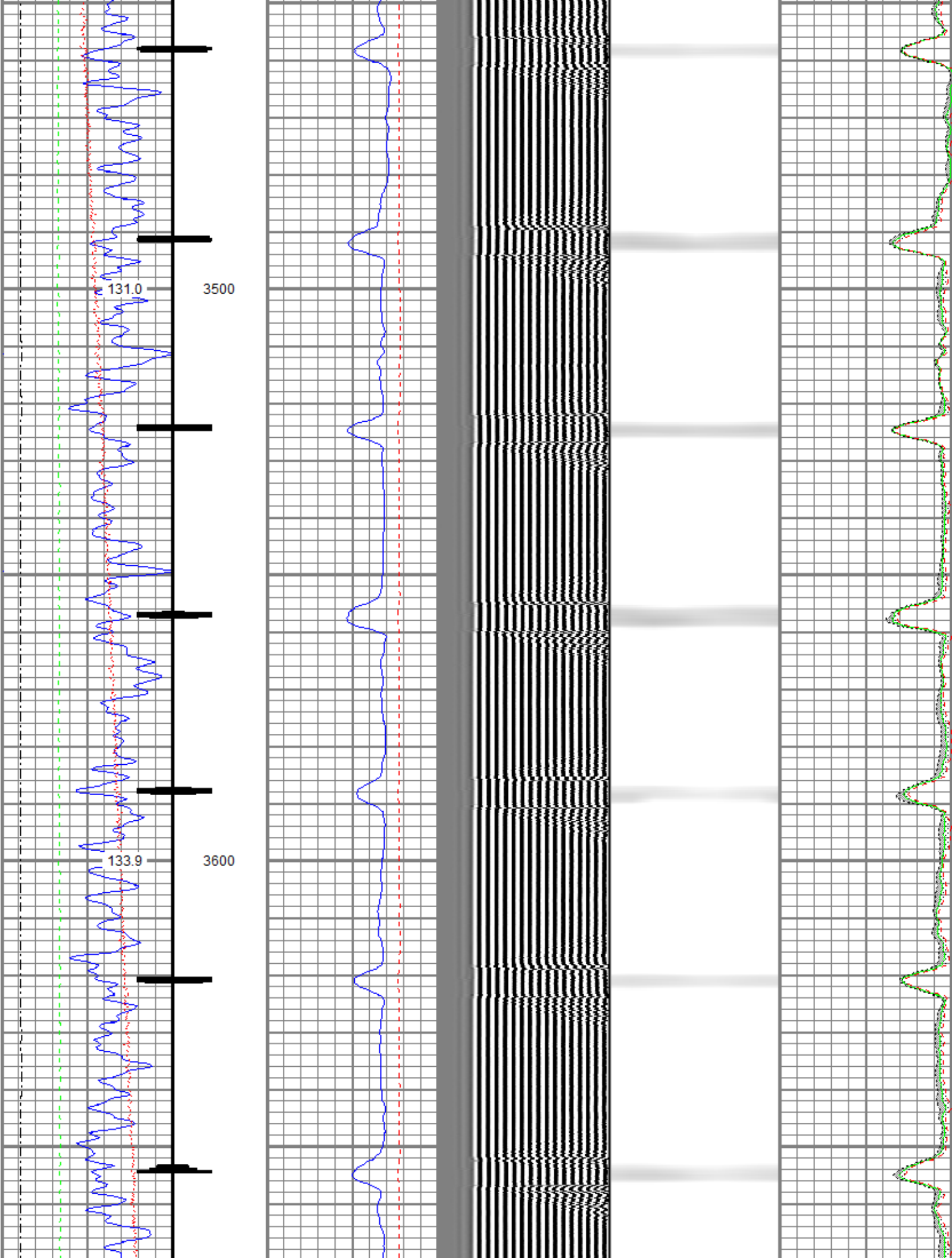


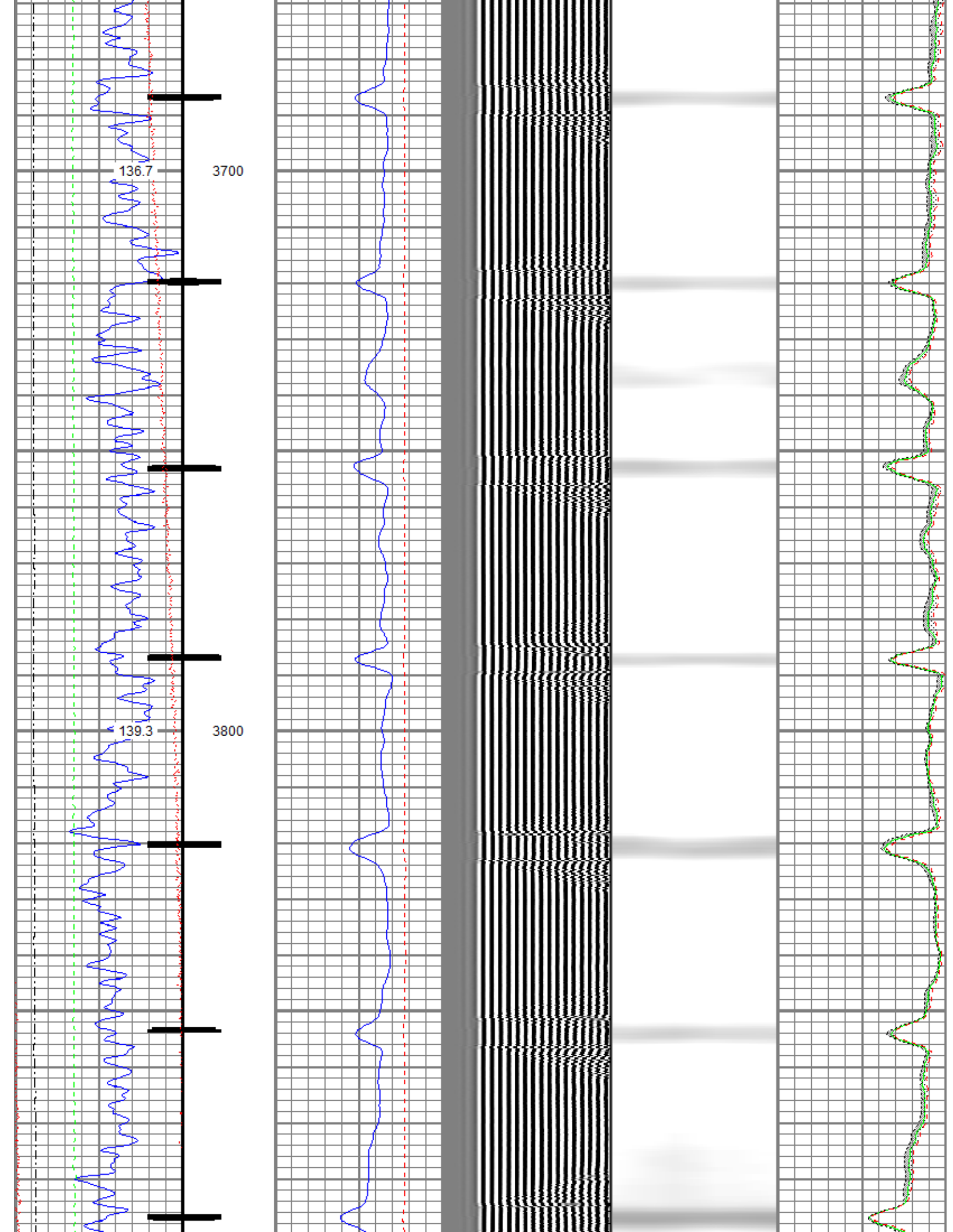


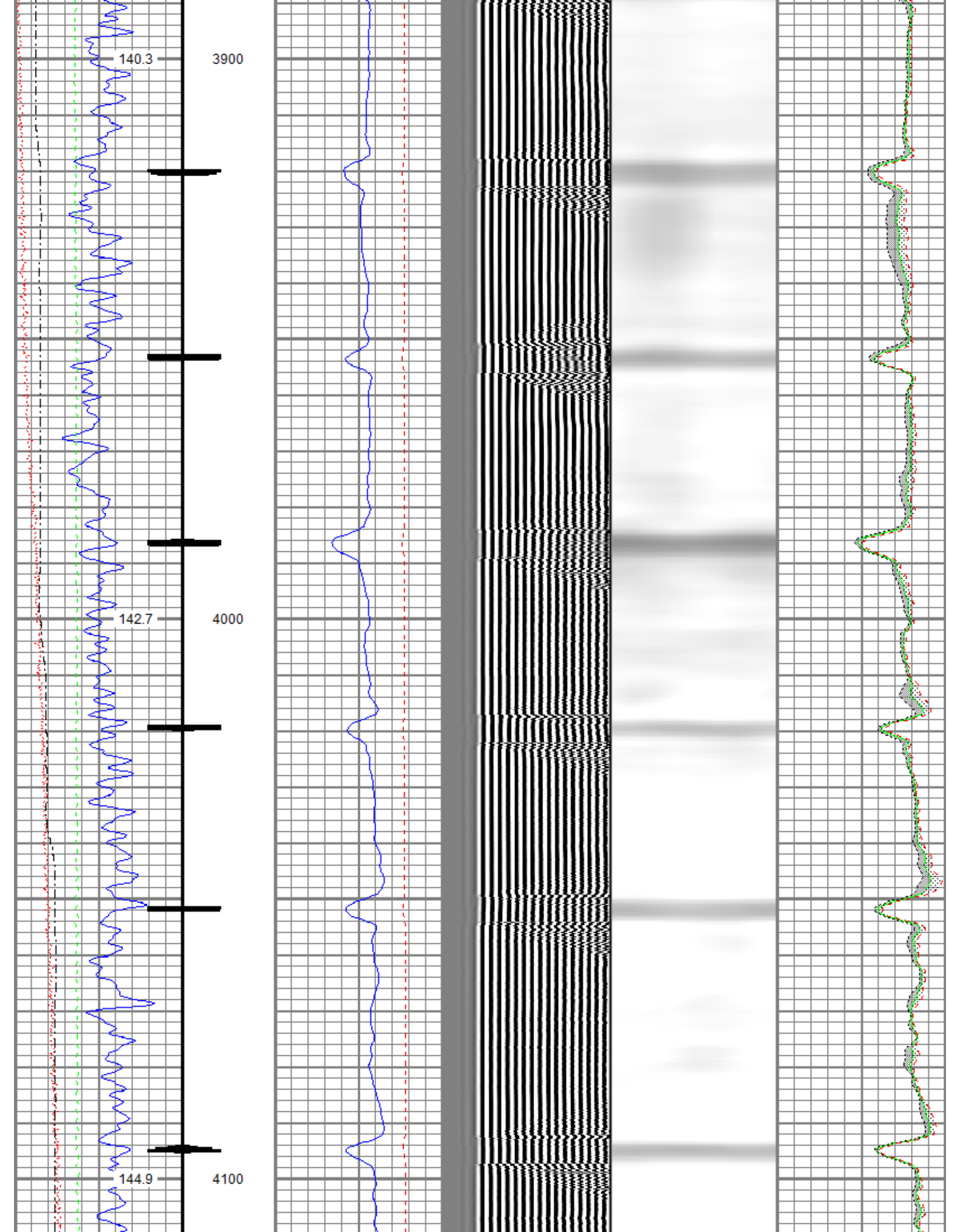


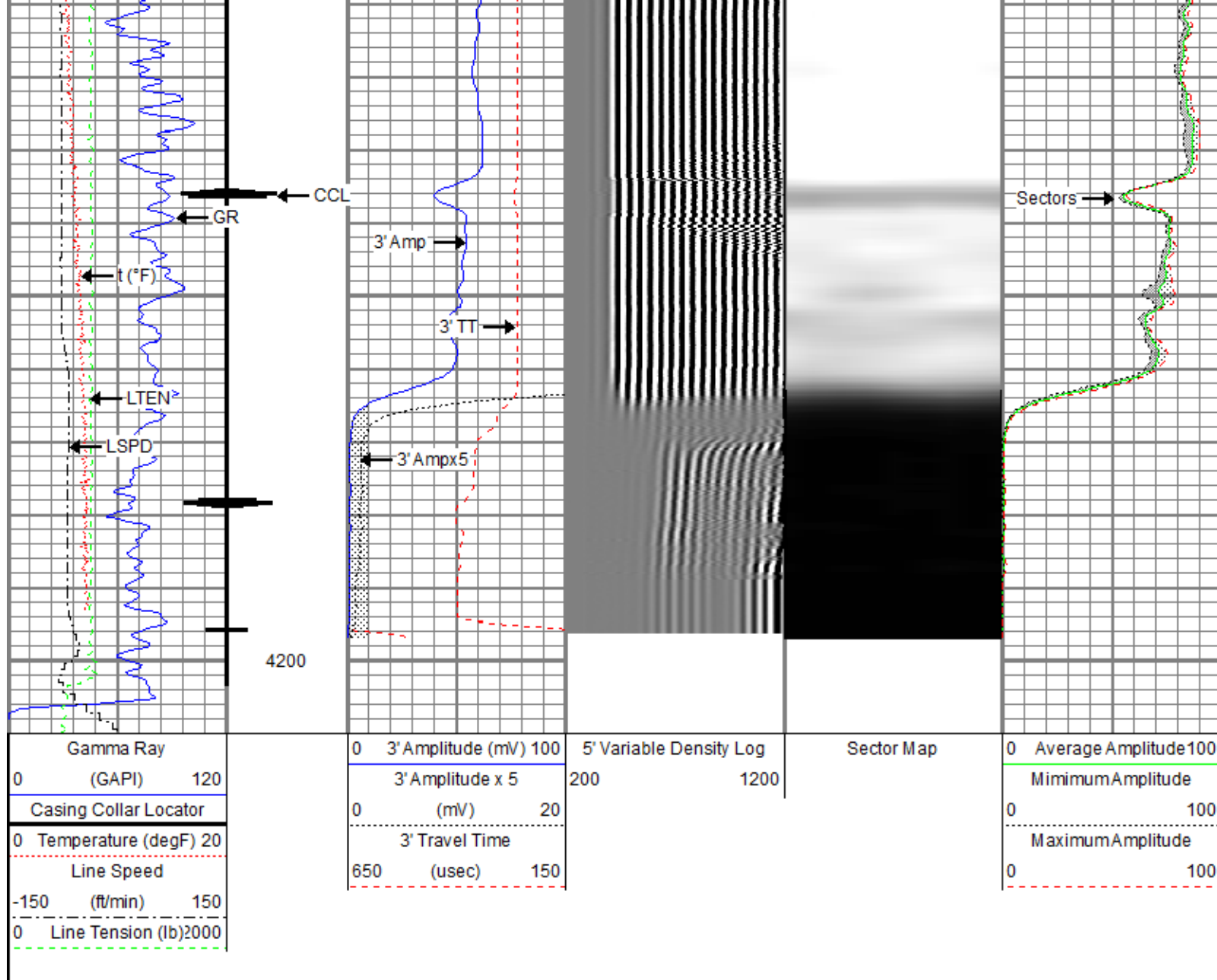








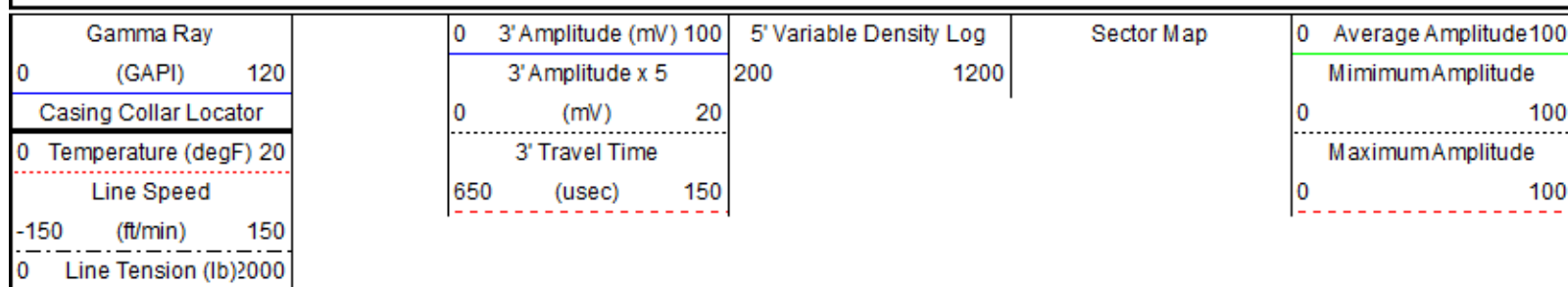


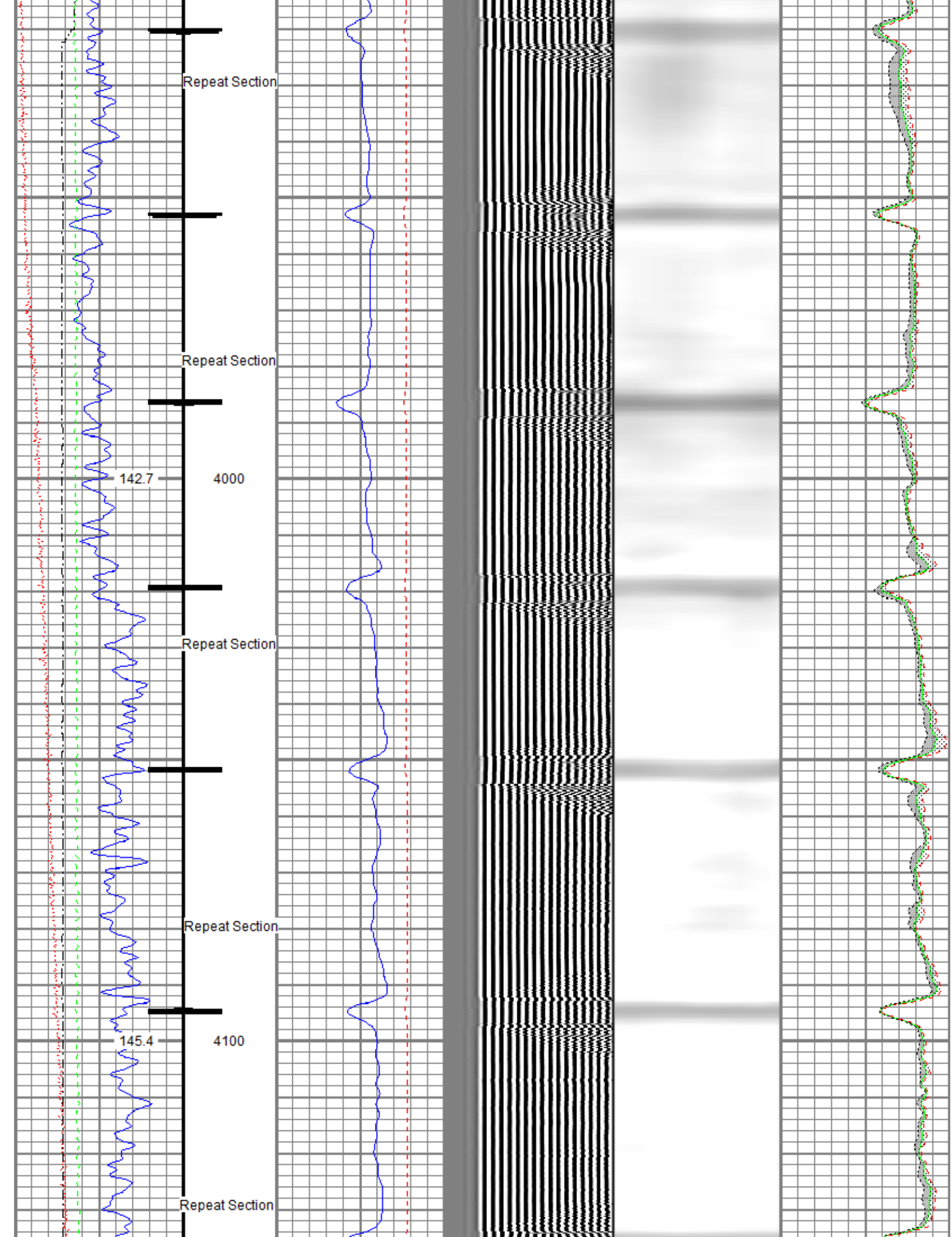


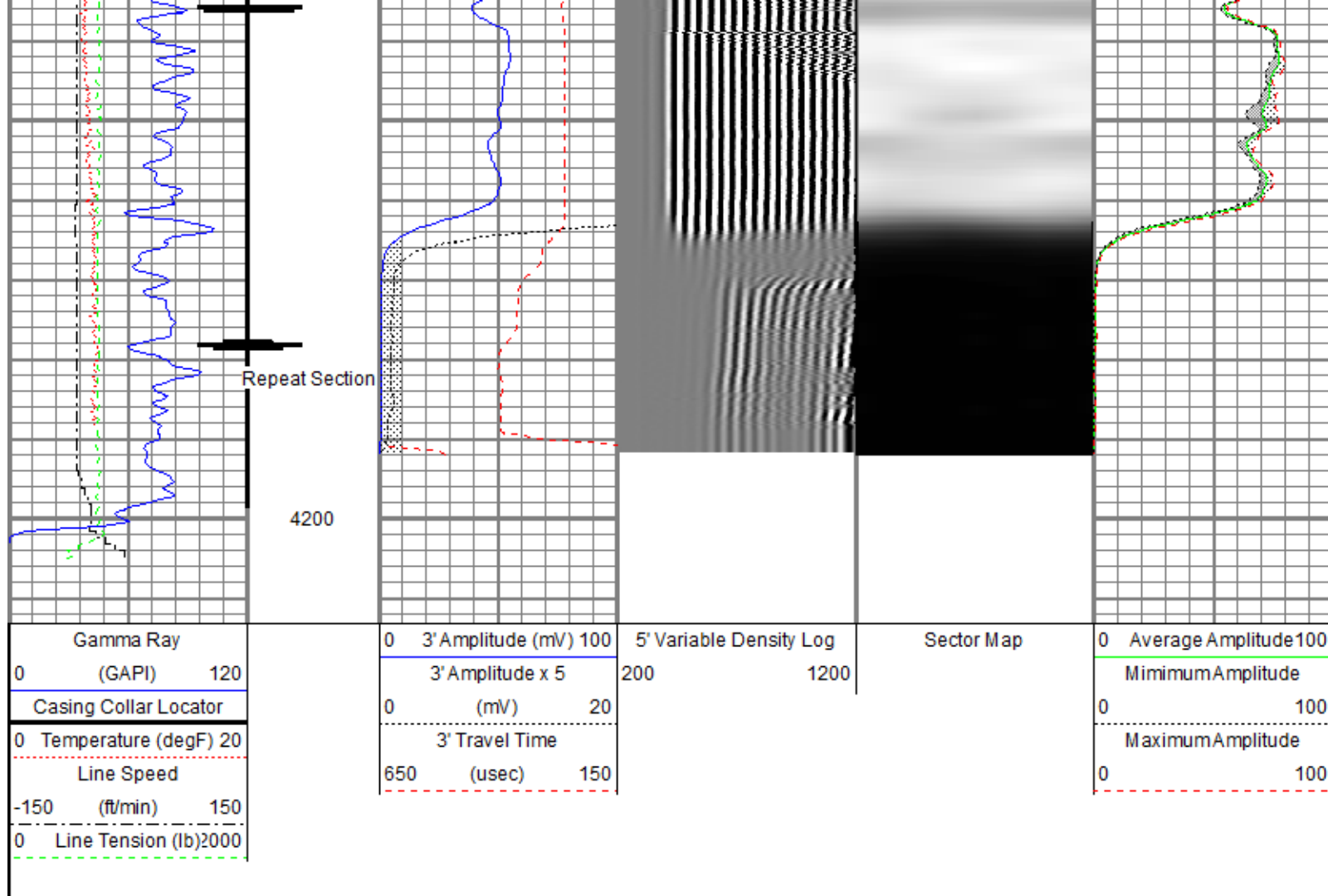
Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

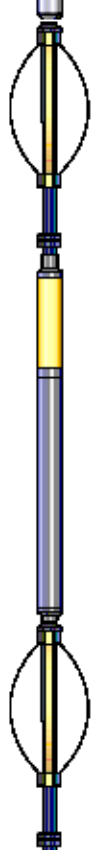
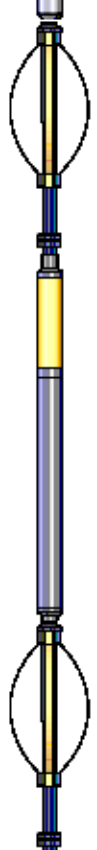
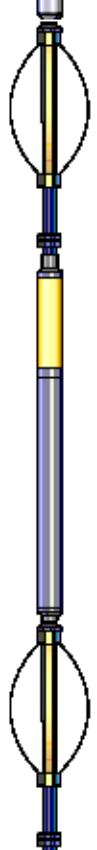
Database File: anadarko_sawdey_glads_1_rcbl.db
 Dataset Pathname: pass8
 Presentation Format: radii
 Dataset Creation: Fri Nov 13 08:49:28 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HeadVolt	19.49		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.72					
WVF3FT	14.55		Probe_RADII-C-2-3/4" (FW1305-098) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFCAL	14.55					
WVFS1	14.55					
WVFS2	14.55					
WVFS3	14.55					
WVFS4	14.55					

WVFS5	14.55		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
WVFS6	14.55					
WVFS7	14.55					
WVFS8	14.55					
WVF5FT	13.55					
CCL	6.51		Probe_CCL_GR-2.75"Digital (FW1211-026) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00
DCCL	6.51					
GR	3.77		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: anadarko_sawdey_glds_1_rcbl.db: field/well/run1/pass10 Total Length: 23.40 ft Total Weight: 194.00 lb O.D. 2.75 in						

	<u>Zero</u>	<u>Cal</u>	<u>Zero</u>	<u>Cal</u>	<u>Gain</u>	<u>Offset</u>
3'	0.004	0.557	0.800	72.000	128.752	0.344
CAL	0.689	0.666				
5'	0.005	0.458	0.800	72.000	157.089	-0.023
SUM						
S1	-0.002	0.548	0.000	100.000	182.020	0.338
S2	0.003	0.582	0.000	100.000	172.750	-0.483
S3	0.003	0.610	0.000	100.000	164.667	-0.426
S4	0.003	0.606	0.000	100.000	165.756	-0.516
S5	0.002	0.579	0.000	100.000	173.460	-0.417
S6	0.002	0.546	0.000	100.000	183.925	-0.456
S7	0.002	0.538	0.000	100.000	186.648	-0.460
S8	0.003	0.532	0.000	100.000	188.956	-0.540

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	<u>Raw (v)</u>		<u>Calibrated (v)</u>		<u>Results</u>	
	<u>Zero</u>	<u>Cal</u>	<u>Zero</u>	<u>Cal</u>	<u>Gain</u>	<u>Offset</u>
CAL	0.000	0.000	0.689	0.666	1.000	0.000

Air Zero Calibration, performed Fri Nov 13 07:32:57 2015:

	<u>Raw (v)</u>		<u>Calibrated (v)</u>		<u>Results</u>	
	<u>Zero</u>		<u>Zero</u>		<u>Offset</u>	
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 Kerr-McGee Oil and Gas Onshore LP
Well Sawdey Gladys 1
Field Wattenberg
County Weld
State Colorado