

Company		EE3, LLC		Company		EE3, LLC	
Well		Grizzly 3-32H		Well		Grizzly 3-32H	
Field		North Park		Field		North Park	
County		Jackson		County		Jackson	
State		Colorado		State		Colorado	
Location:				API #: 05-057-06523-00			
SEC 32 TWP 8N RGE 80W				Other Services			
Permanent Datum				Ground Level			
Log Measured From				Kelly Bushing (20 FT)			
Drilling Measured From				Kelly Bushing			
Elevation				8074'			
K.B. 8094'				D.F. 8093'			
G.L. 8074'							
Date		23-Aug-2014		Run Number		One	
Depth Driller				Depth Logger		7949 FT	
Bottom Logged Interval		7945 FT		Top Log Interval		Surface	
Open Hole Size		Water		Type Fluid			
Density / Viscosity		8.34 lbm/gal		Max. Recorded Temp.		234.6°F	
Estimated Cement Top		70 FT		Time Well Ready		ROA	
Time Logger on Bottom		10:30		Equipment Number		HD-0311	
Location		Ft. Lupton, CO		Recorded By		H. Raby	
Witnessed By		Zachery Terrill		Borehole Record		Tubing Record	
Run Number		Bit		From		To	
Size		Weight		From		To	
Casing Record		Size (in)		Wgt (lbs/ft)		Grade	
Surface Casing		5-1/2"				Top	
Intermediate #1						Surface	
Intermediate #2						Bottom	
Liner						1400 FT	

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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

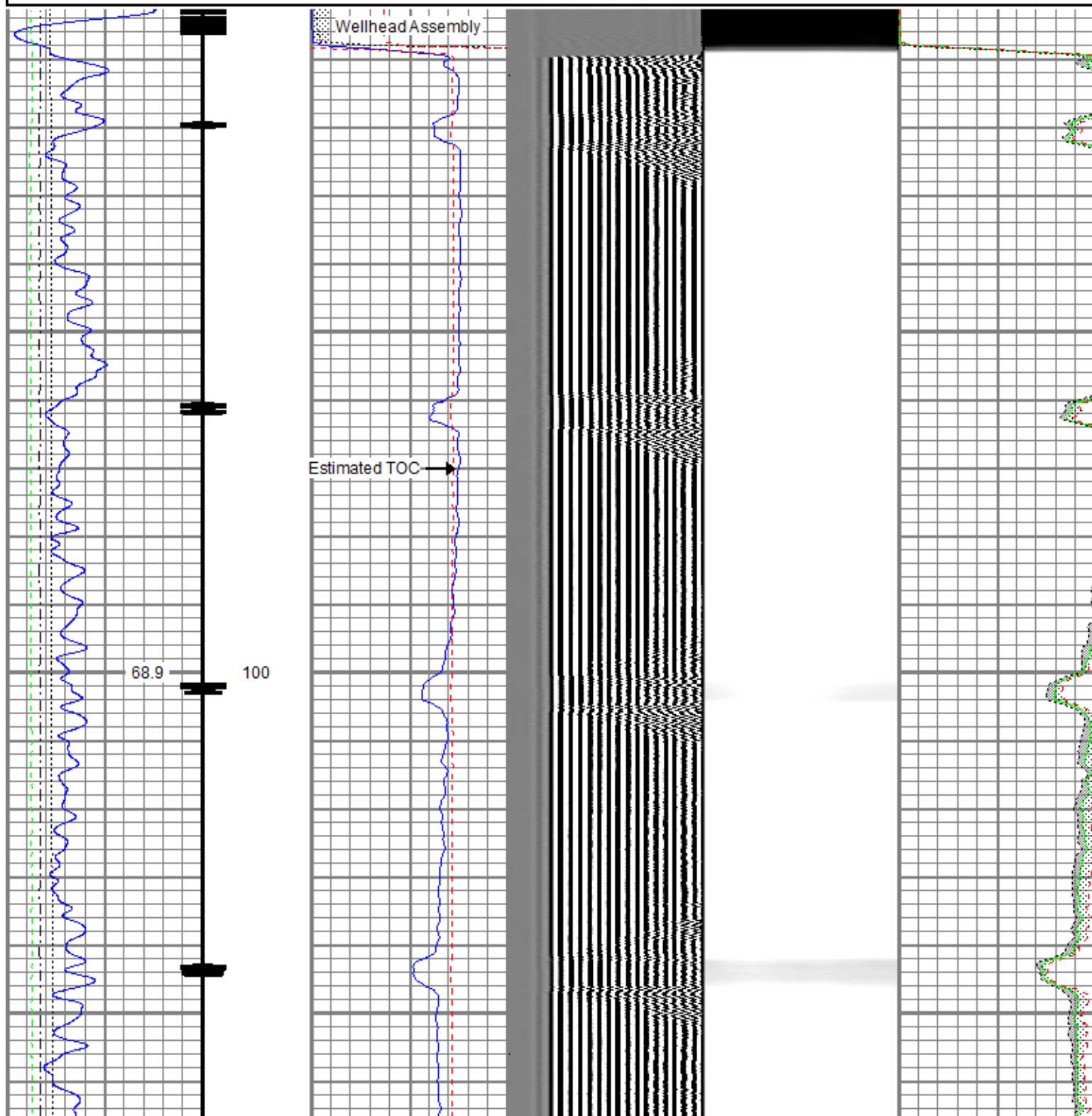
Radial Cement Bond Log is first run in hole.
Depth Reference is FMC Wireline RCBL primary death at 20 FT KB zero,
Run RCBL from as deep as possible in curve to surface.
Total Depth Logger reached 7949 FT from a 20 FT KB zero.
RCBL recorded with -0- PSI surface pressure.

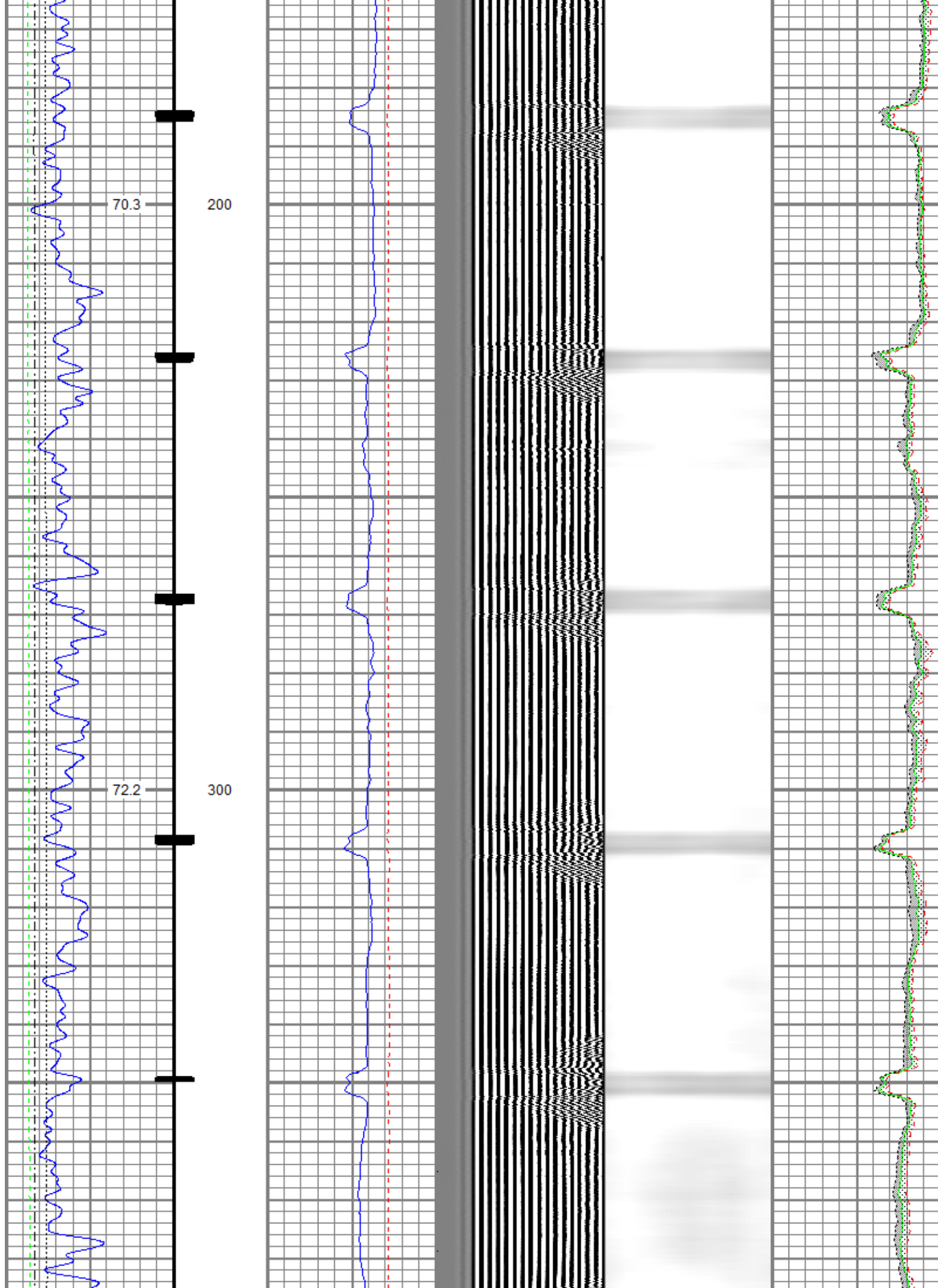
Thank you for choosing FMC Technologies Completion Services, Inc.!!

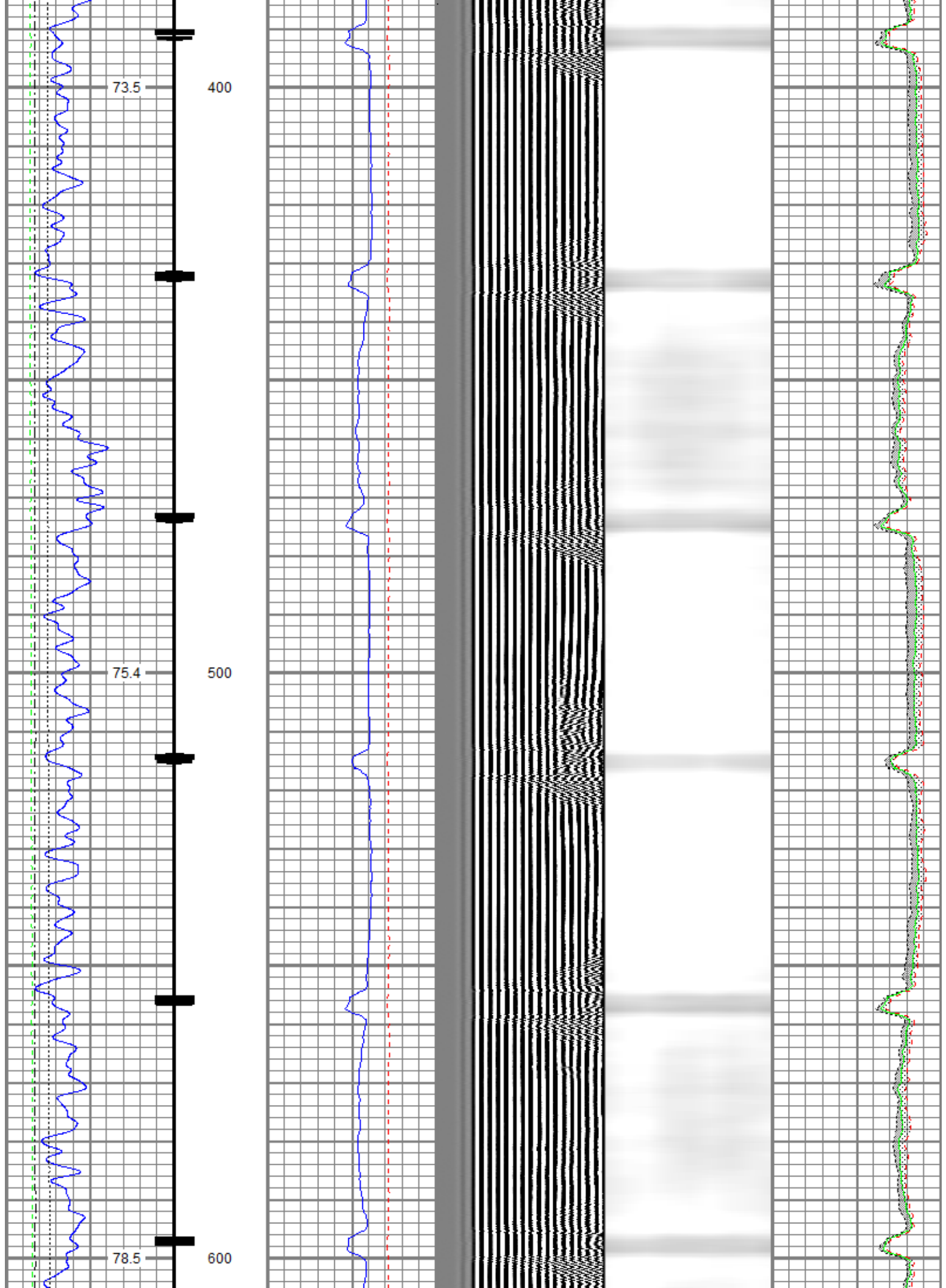
Main Pass

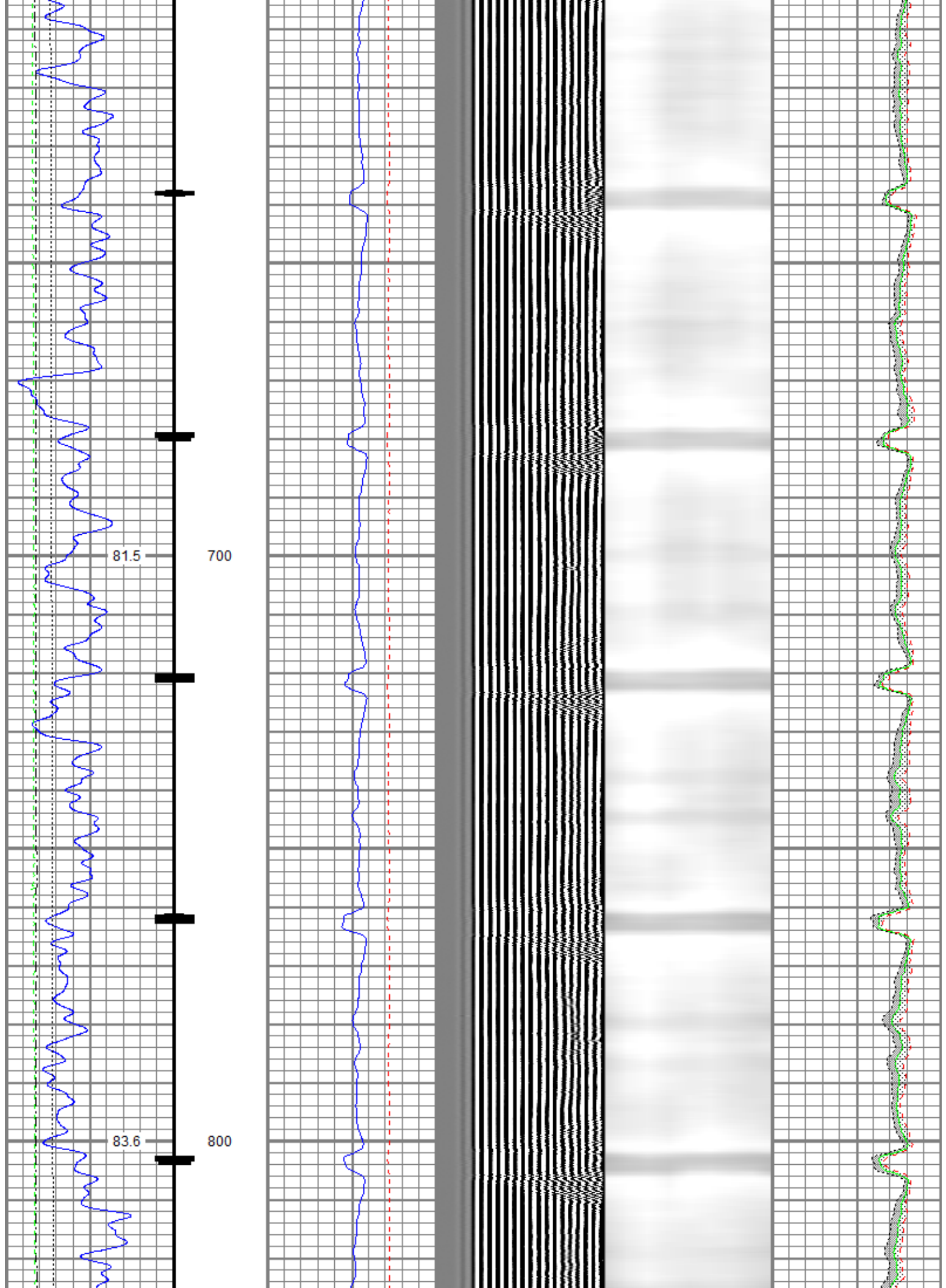
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 Dataset Pathname: pass7
 Presentation Format: radii
 Dataset Creation: Sat Aug 23 10:47:42 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

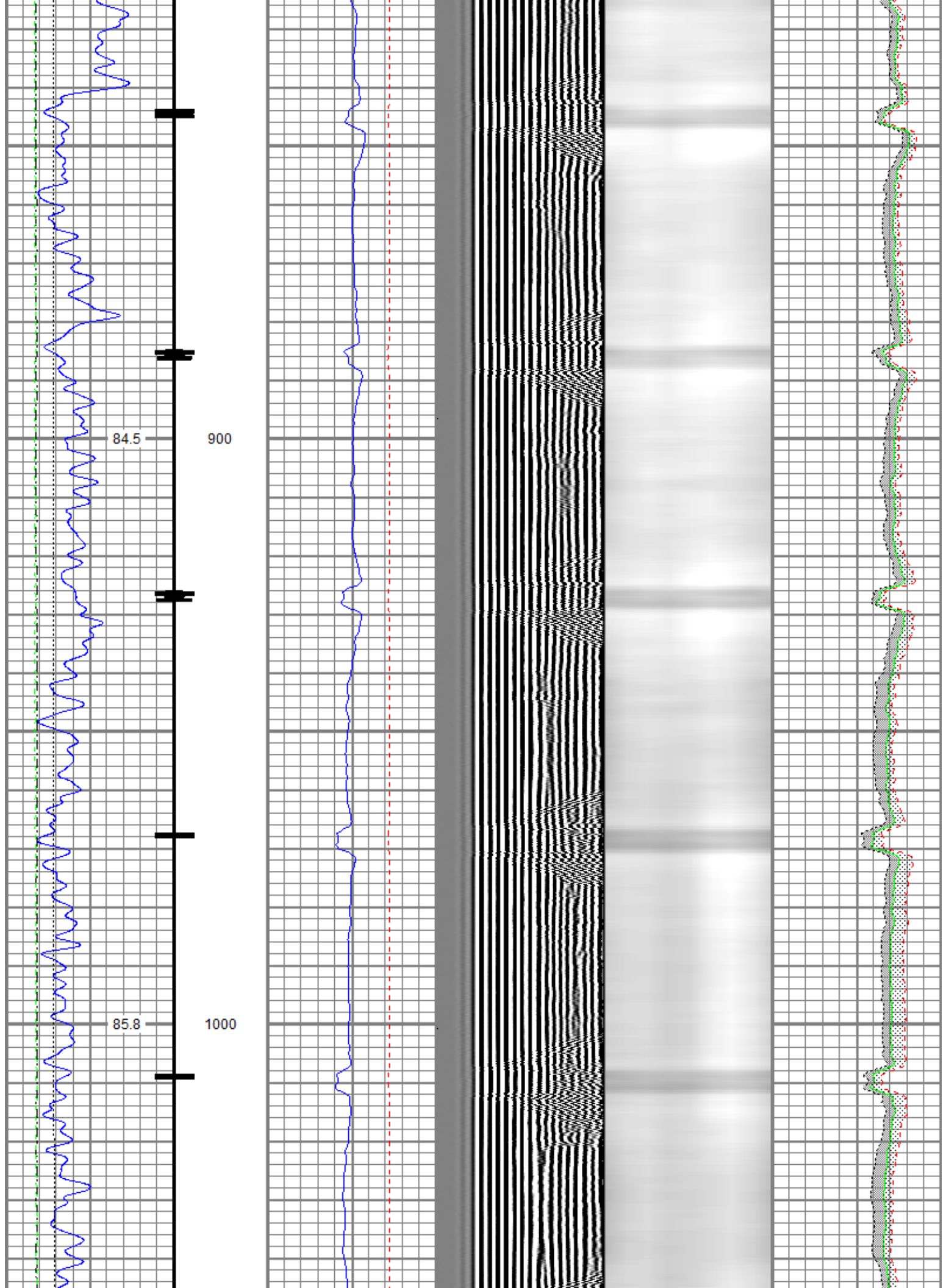
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	Average Amplitude
(GAPI) 150		3' Amplitude x 5	200		0 100
Casing Collar Locator	0	(mV) 20			Minimum Amplitude
Temperature		3' Travel Time			0 100
(degF) 300		650 (usec) 150			Maximum Amplitude
Line Speed					0 100
(ft/min) 150					
Line Tension (lb) 000					

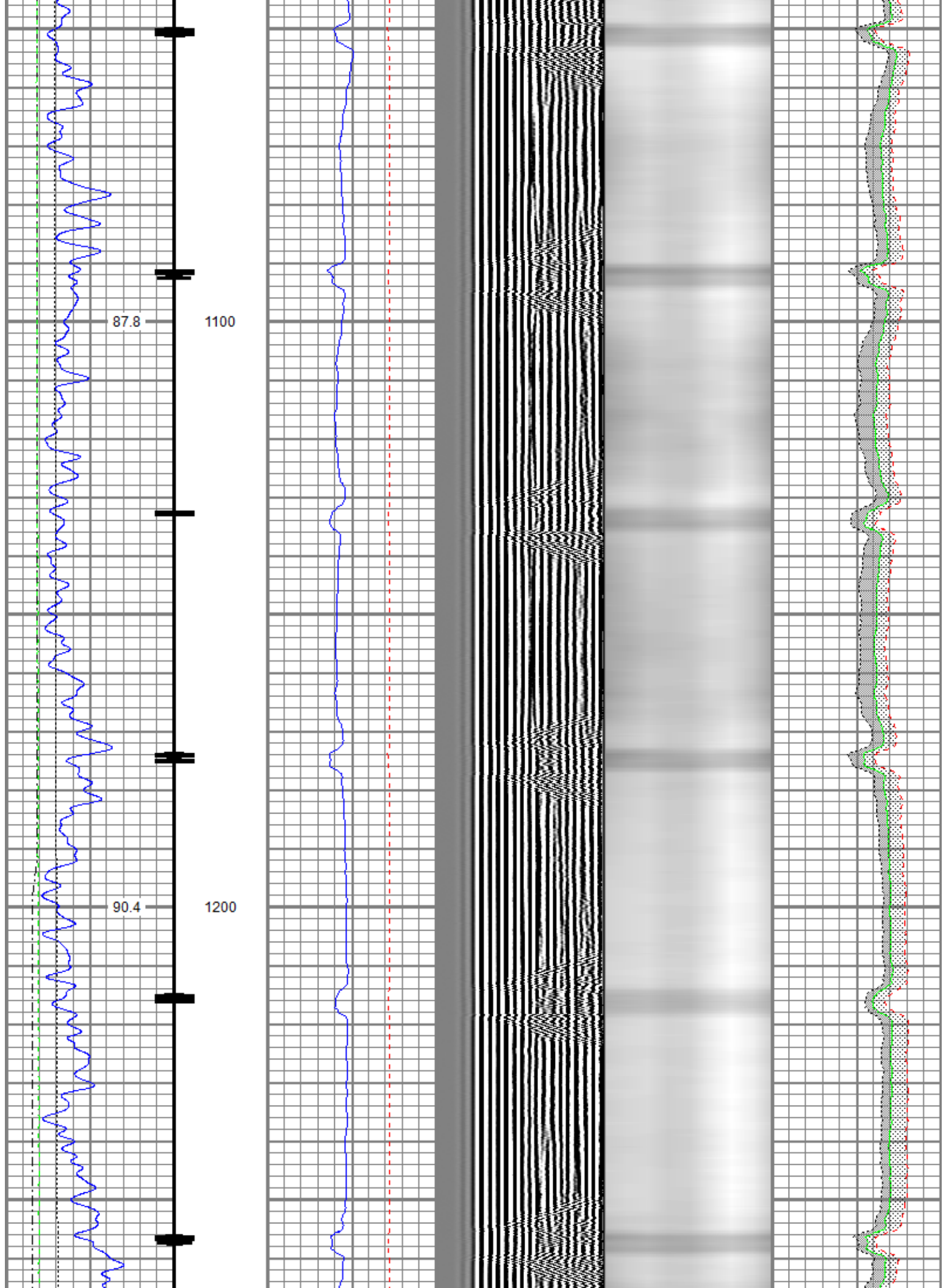


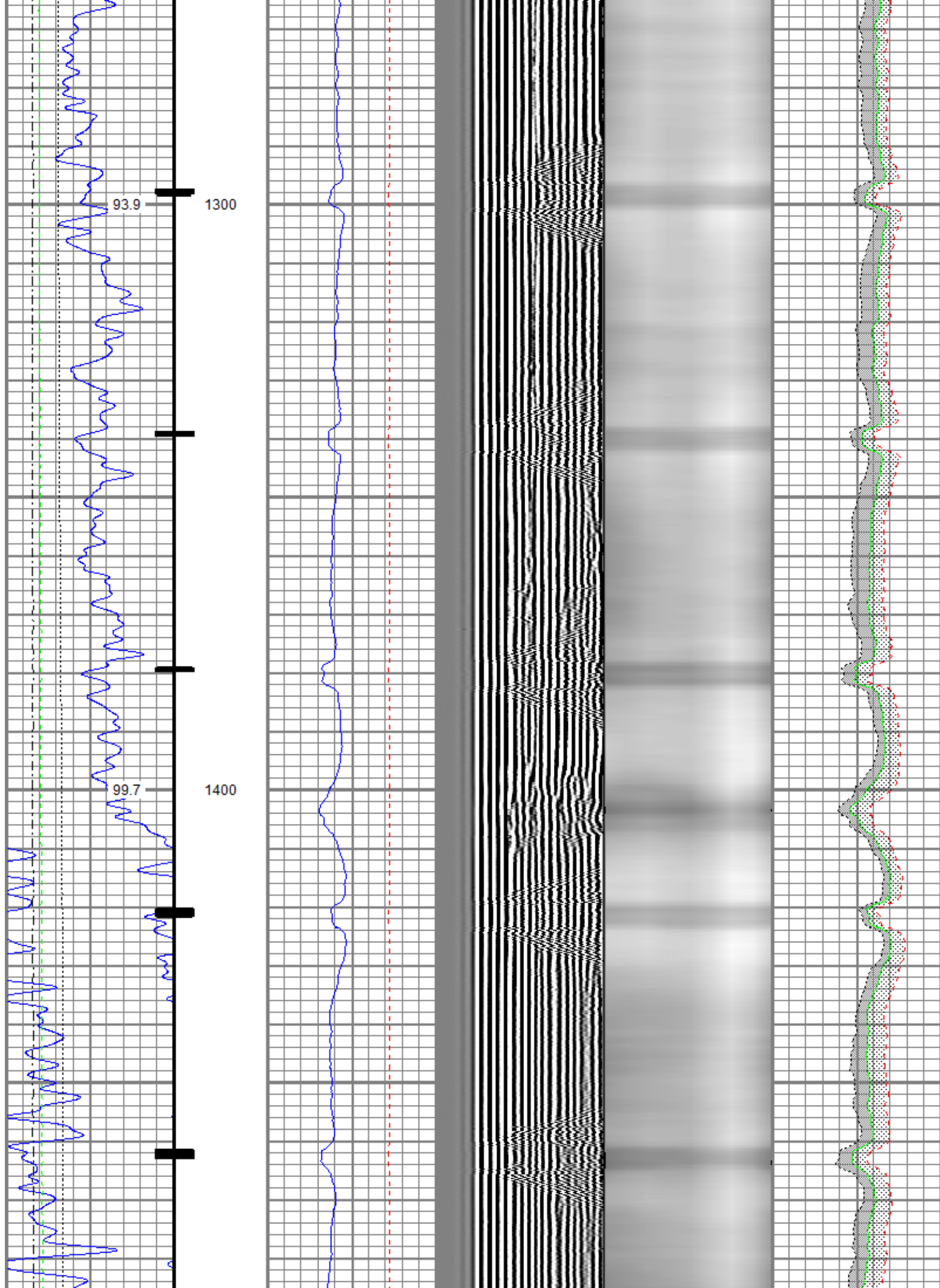


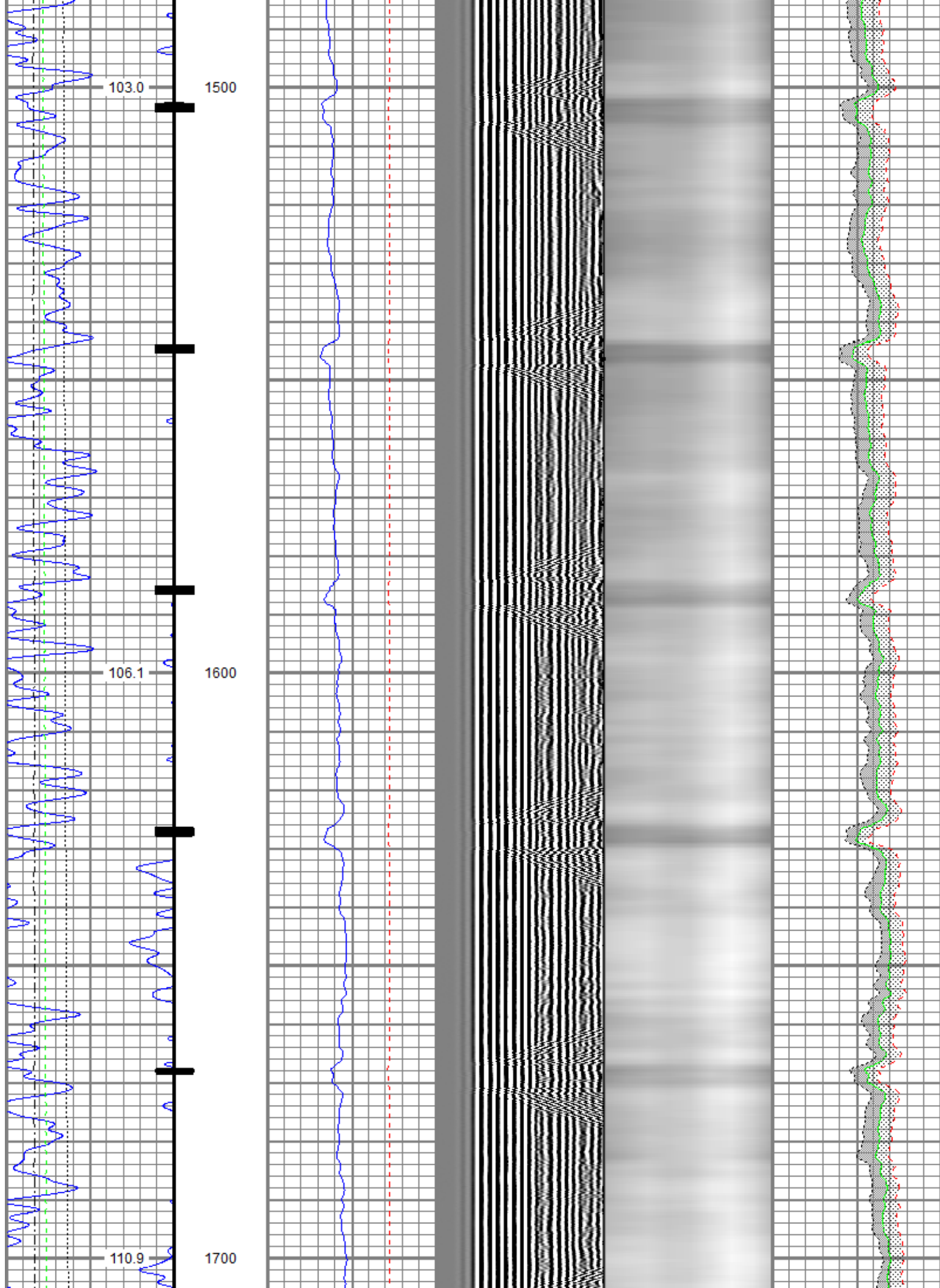


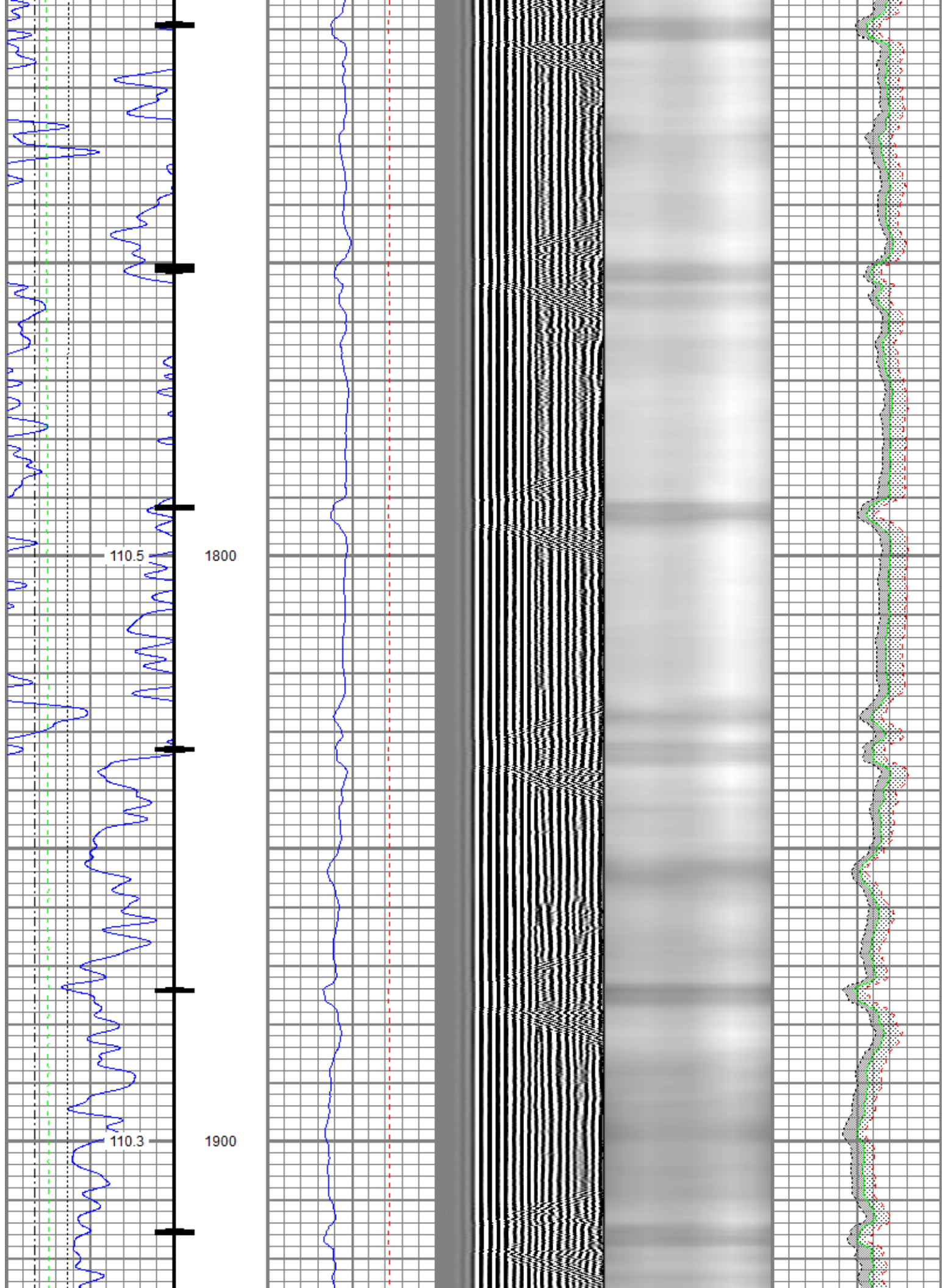


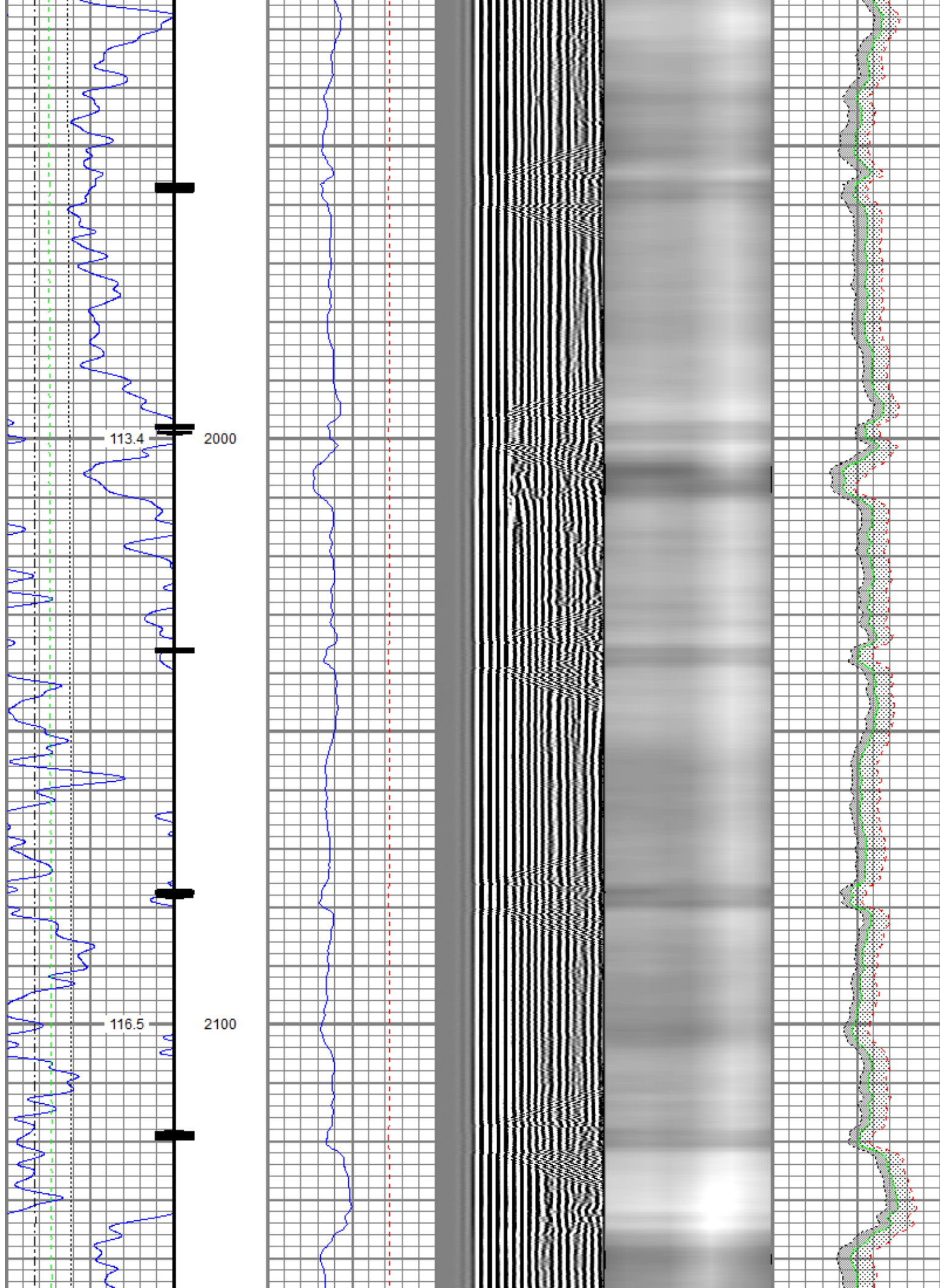


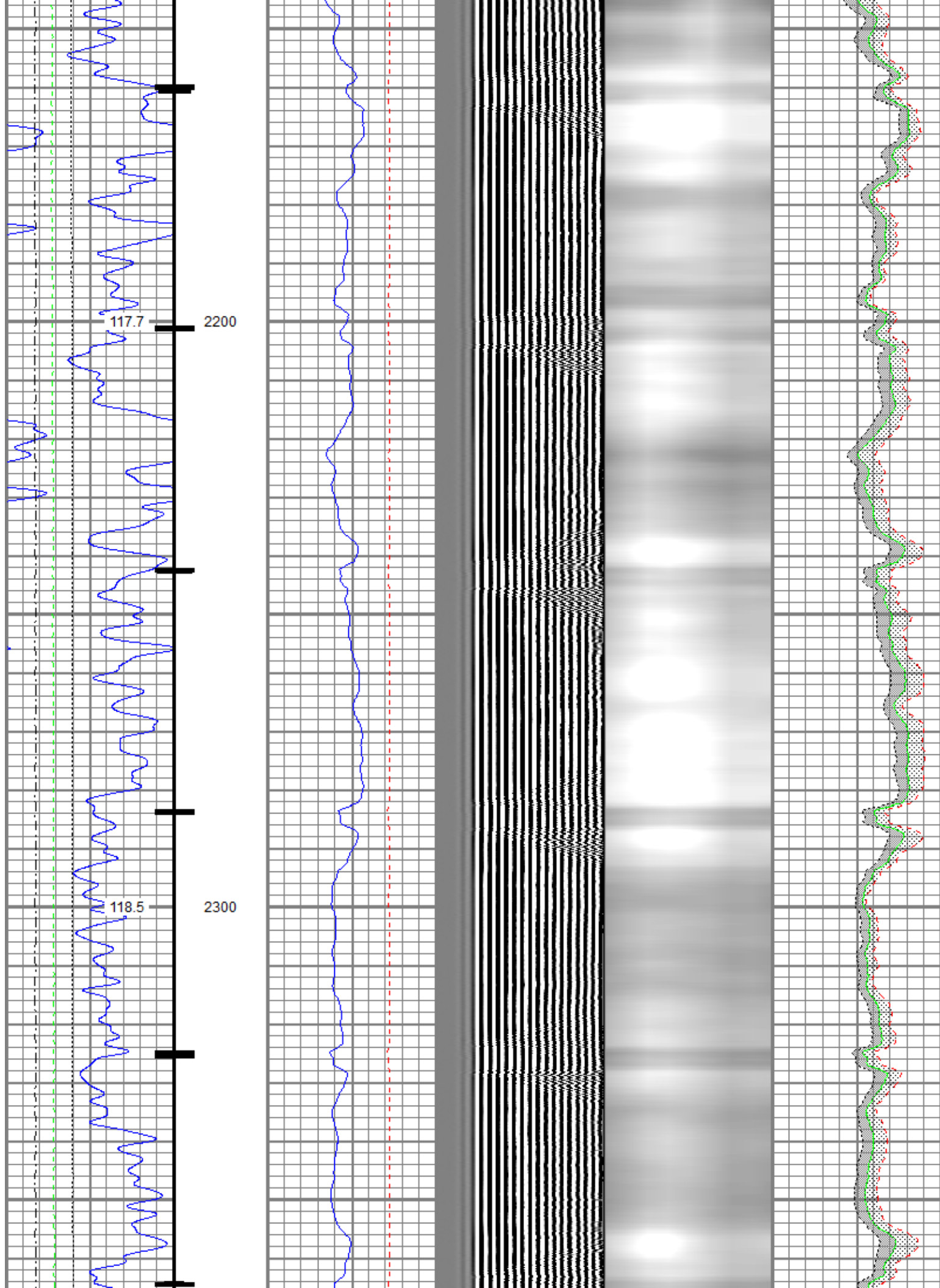


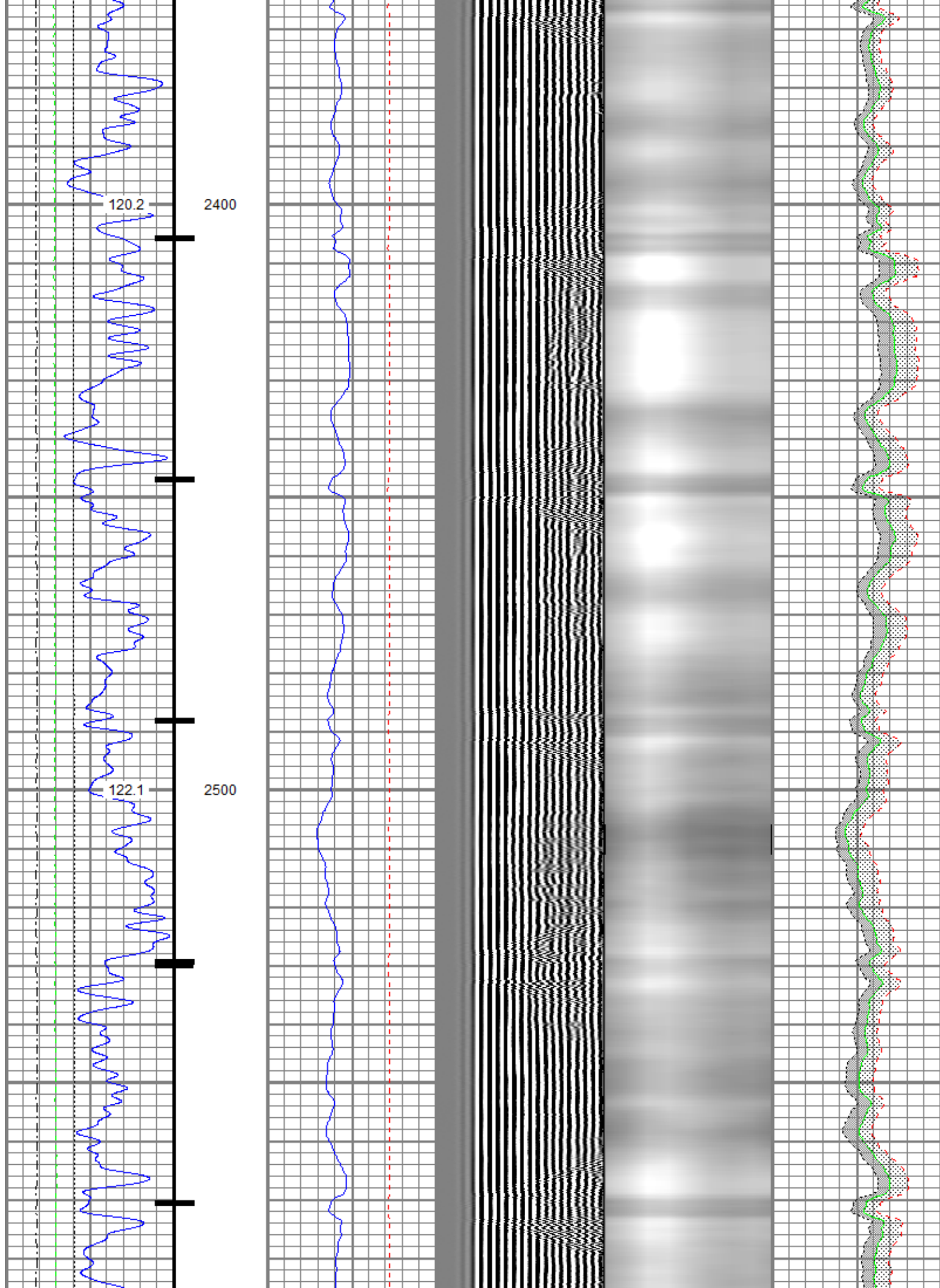


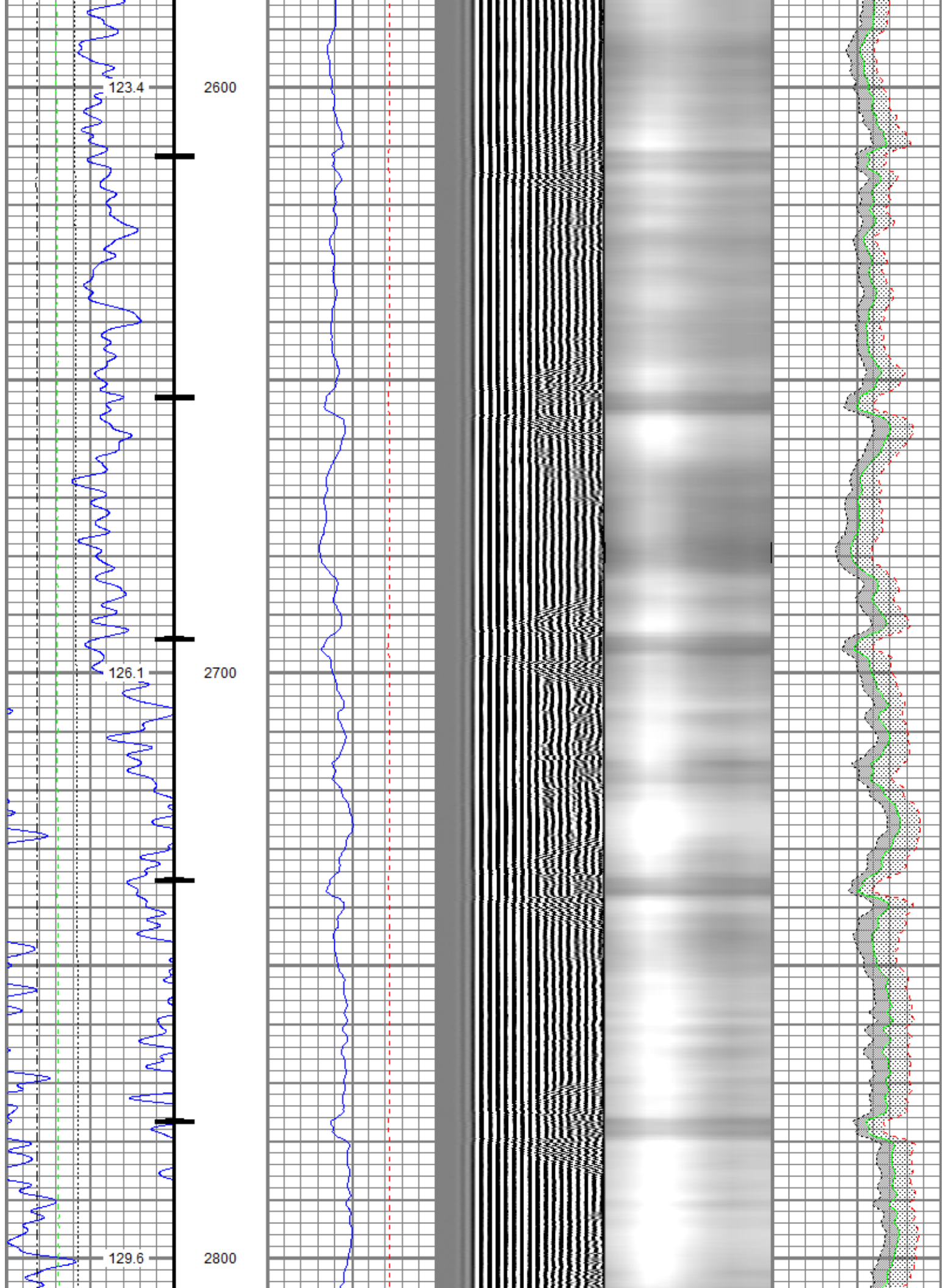


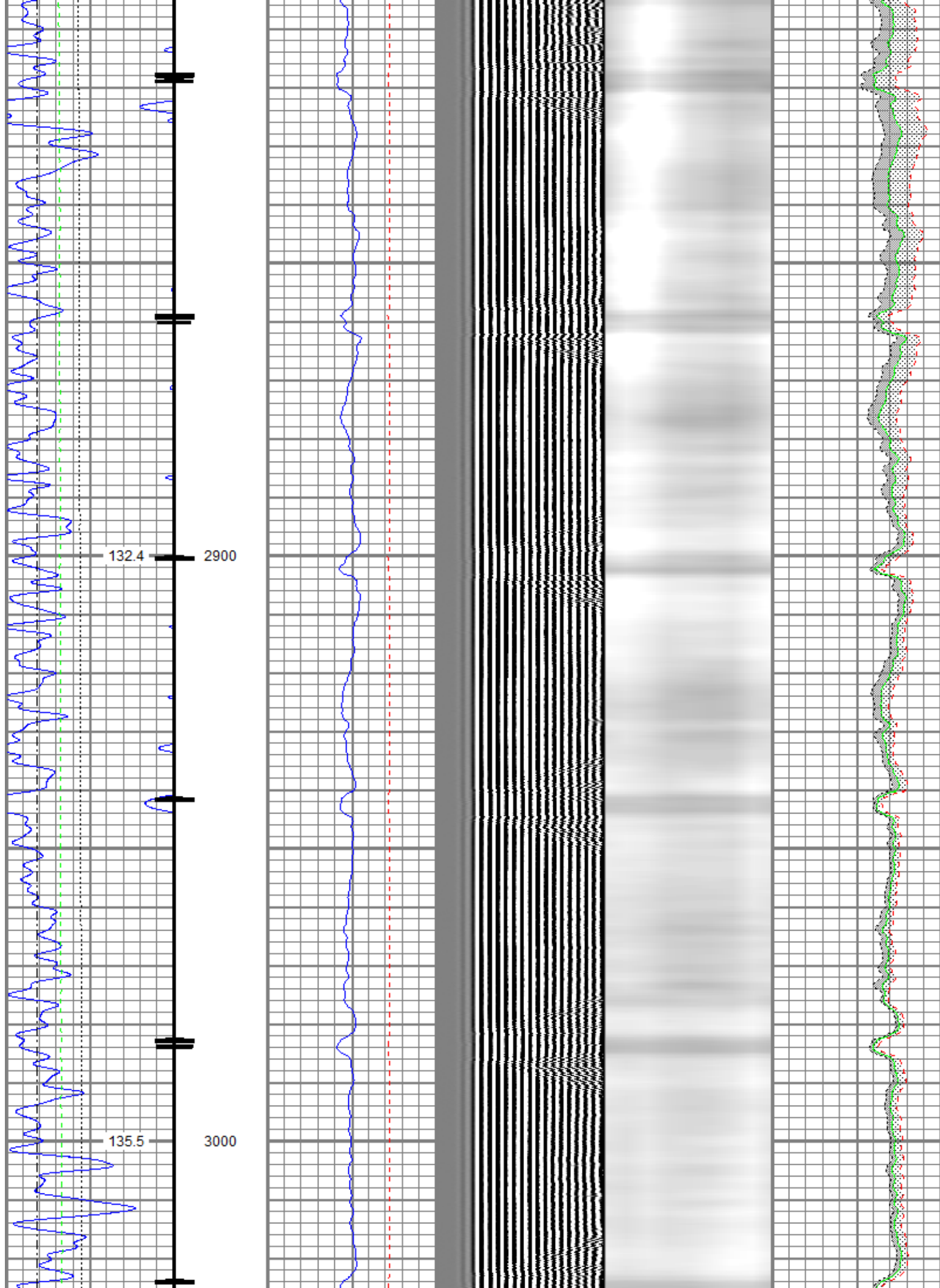


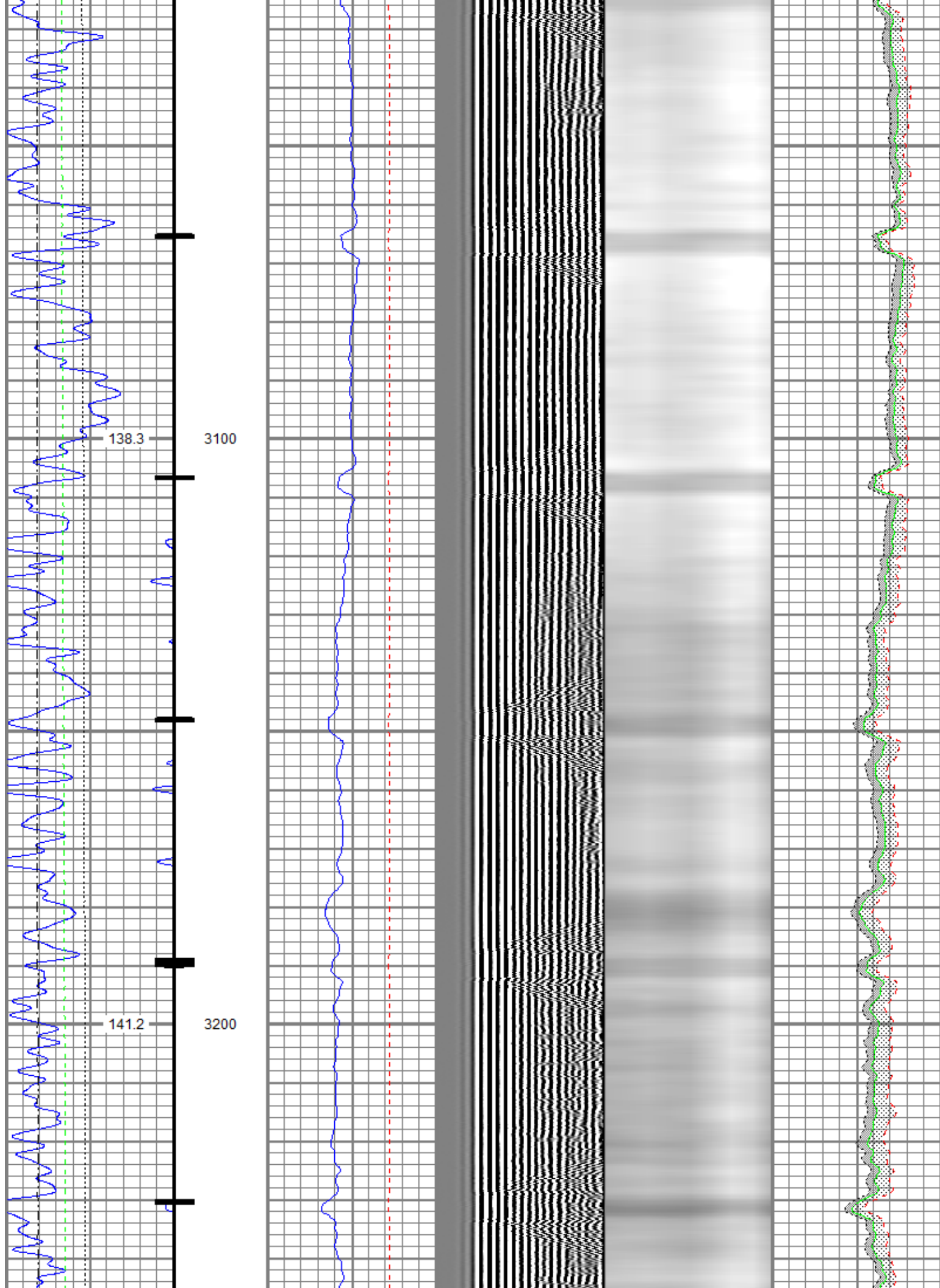


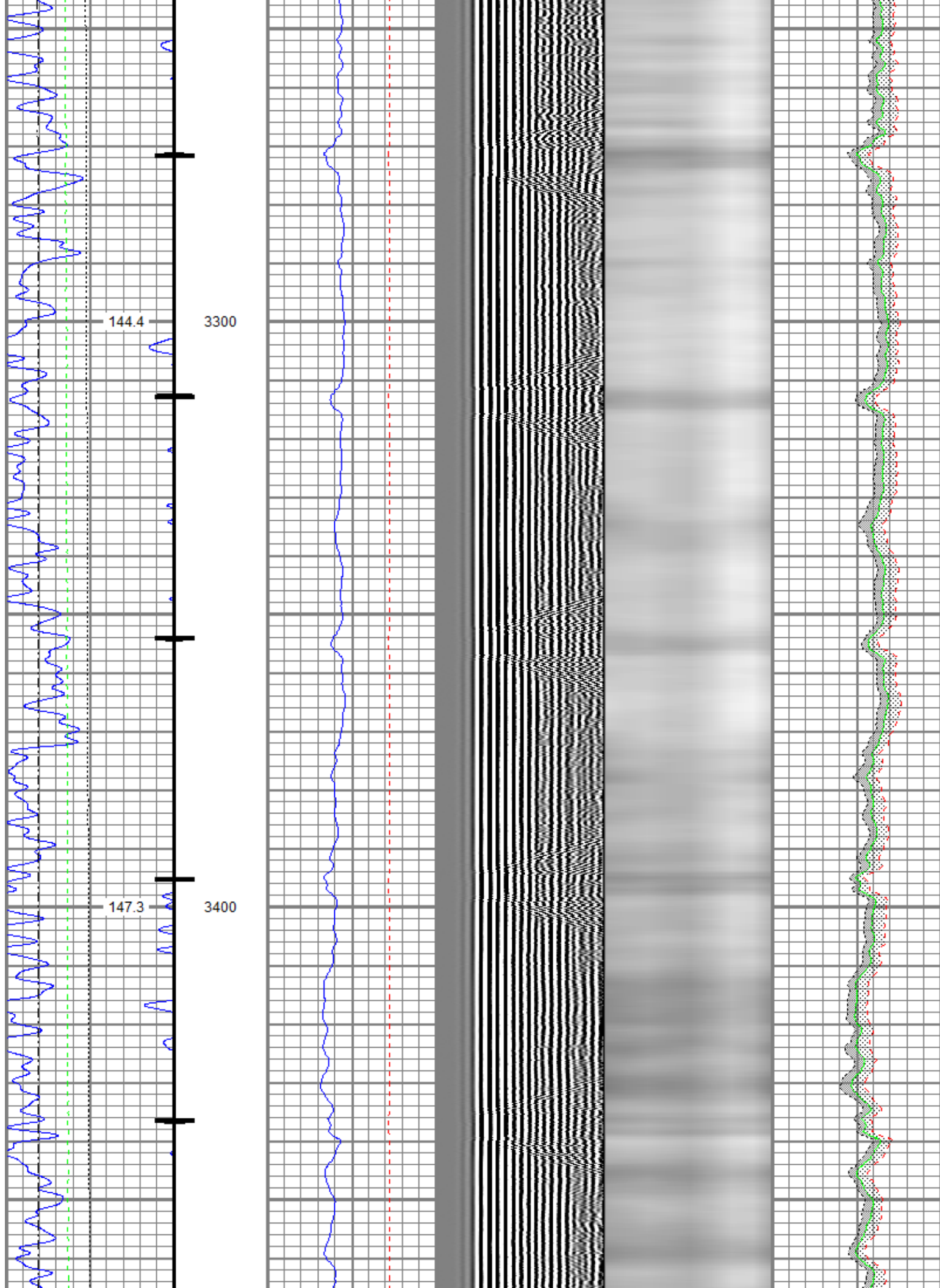


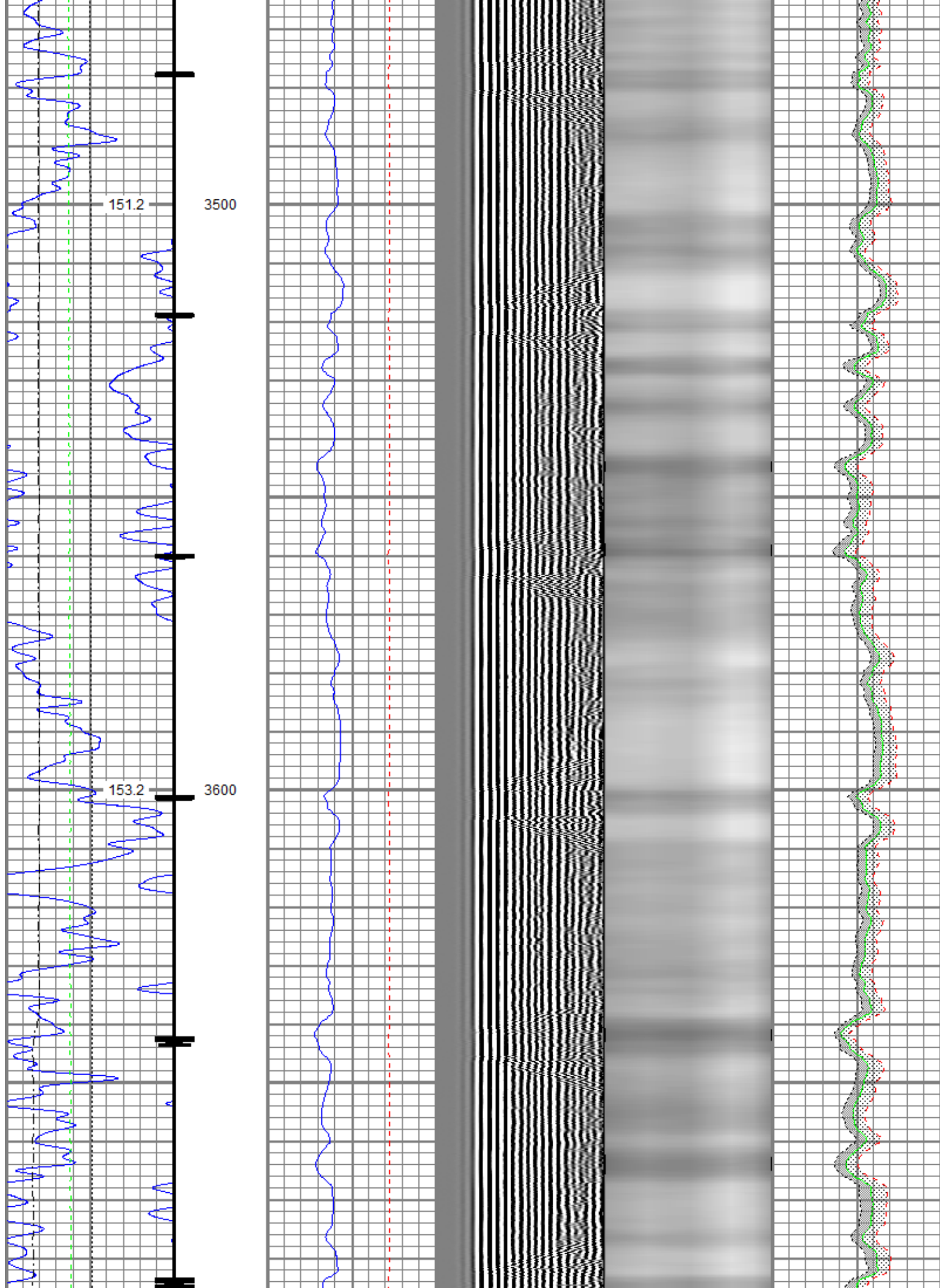


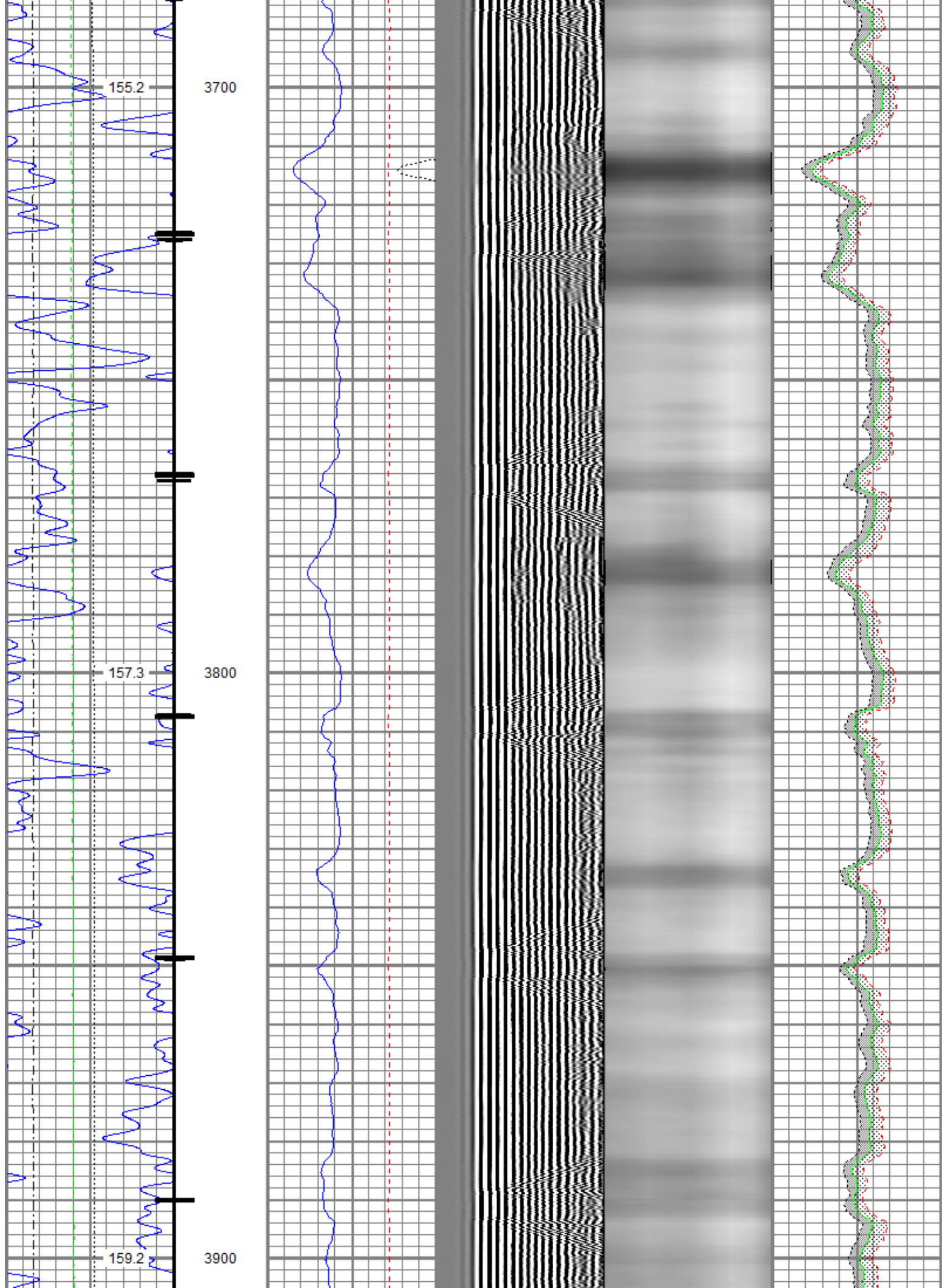


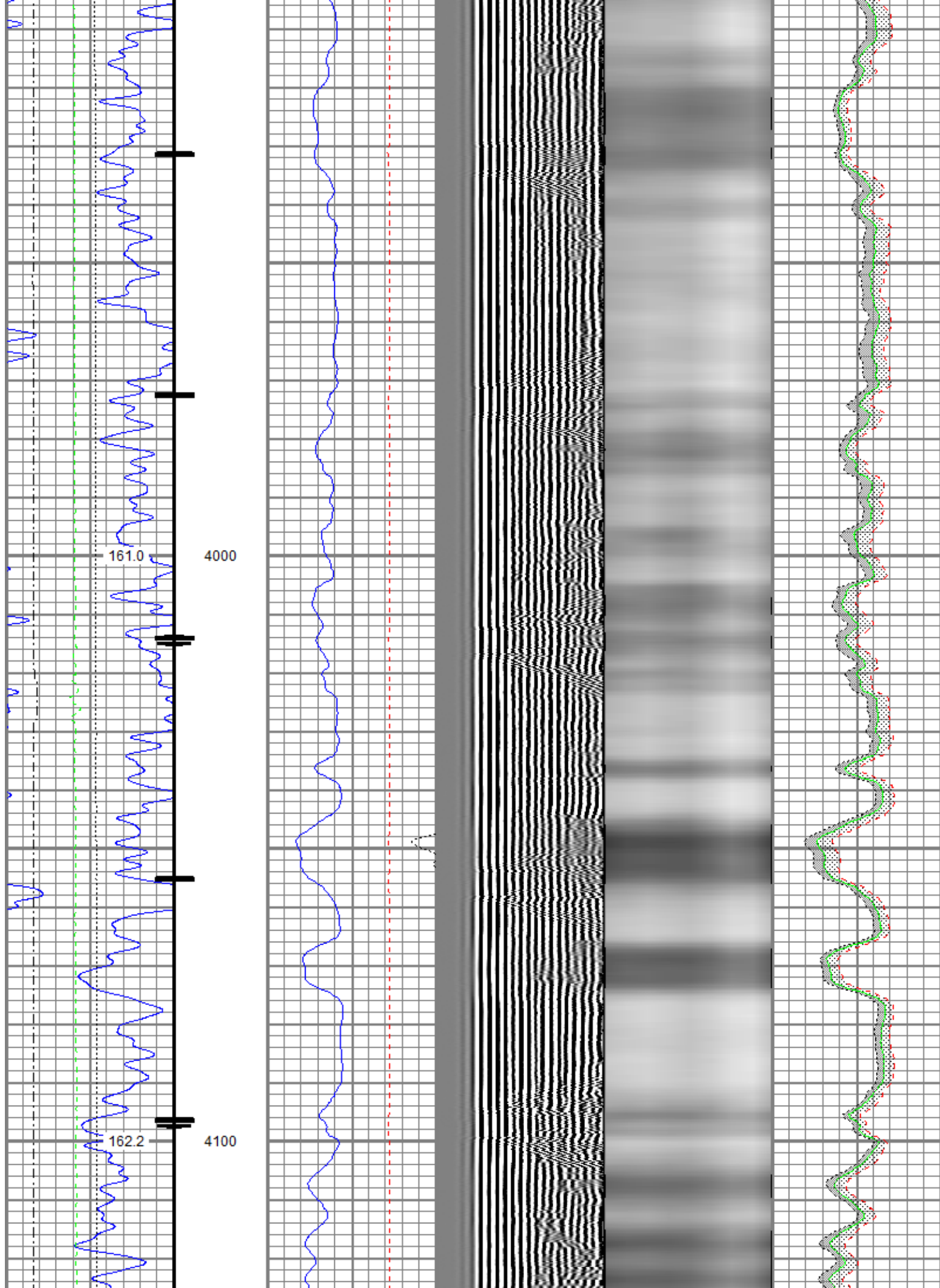


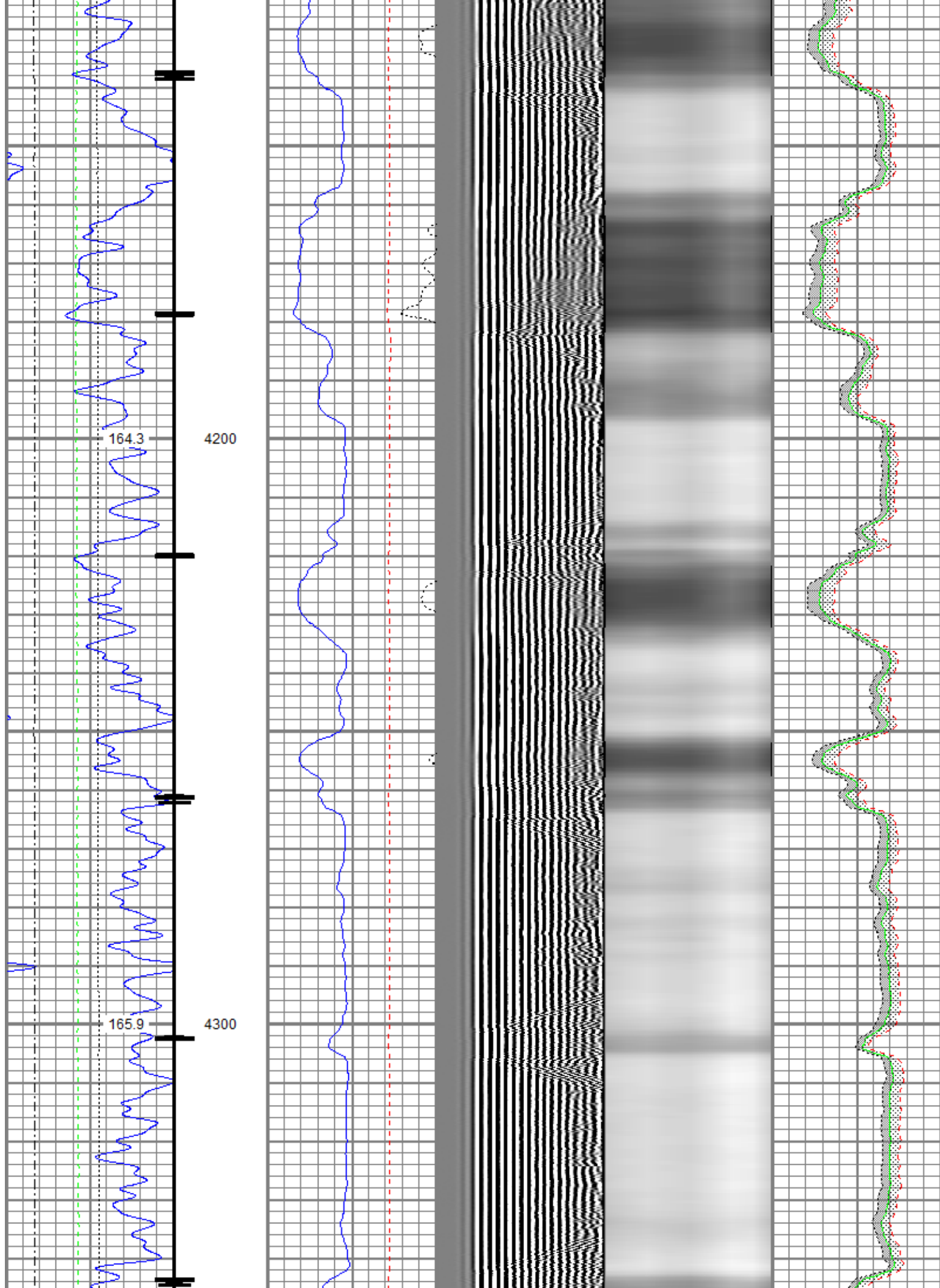


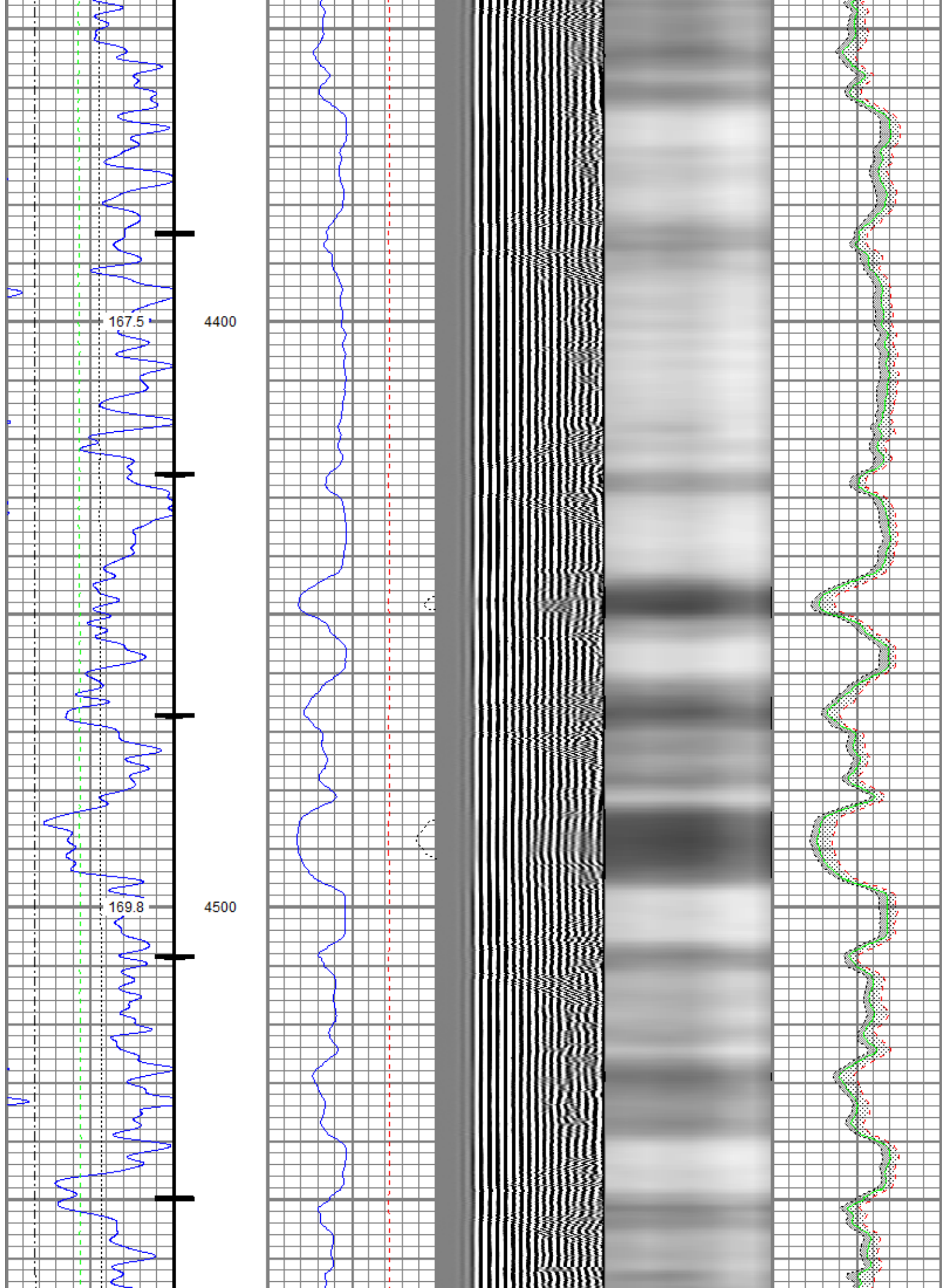


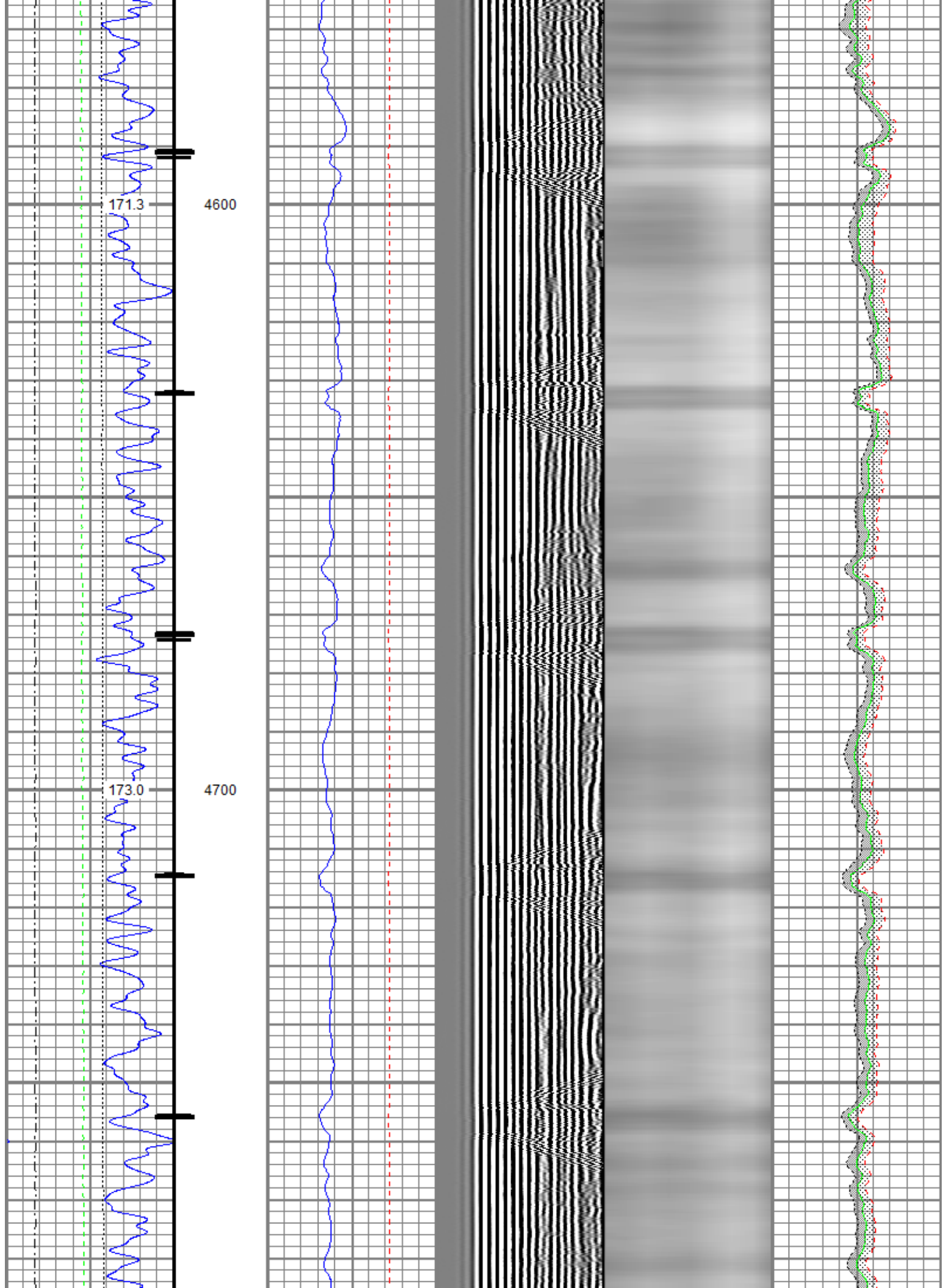


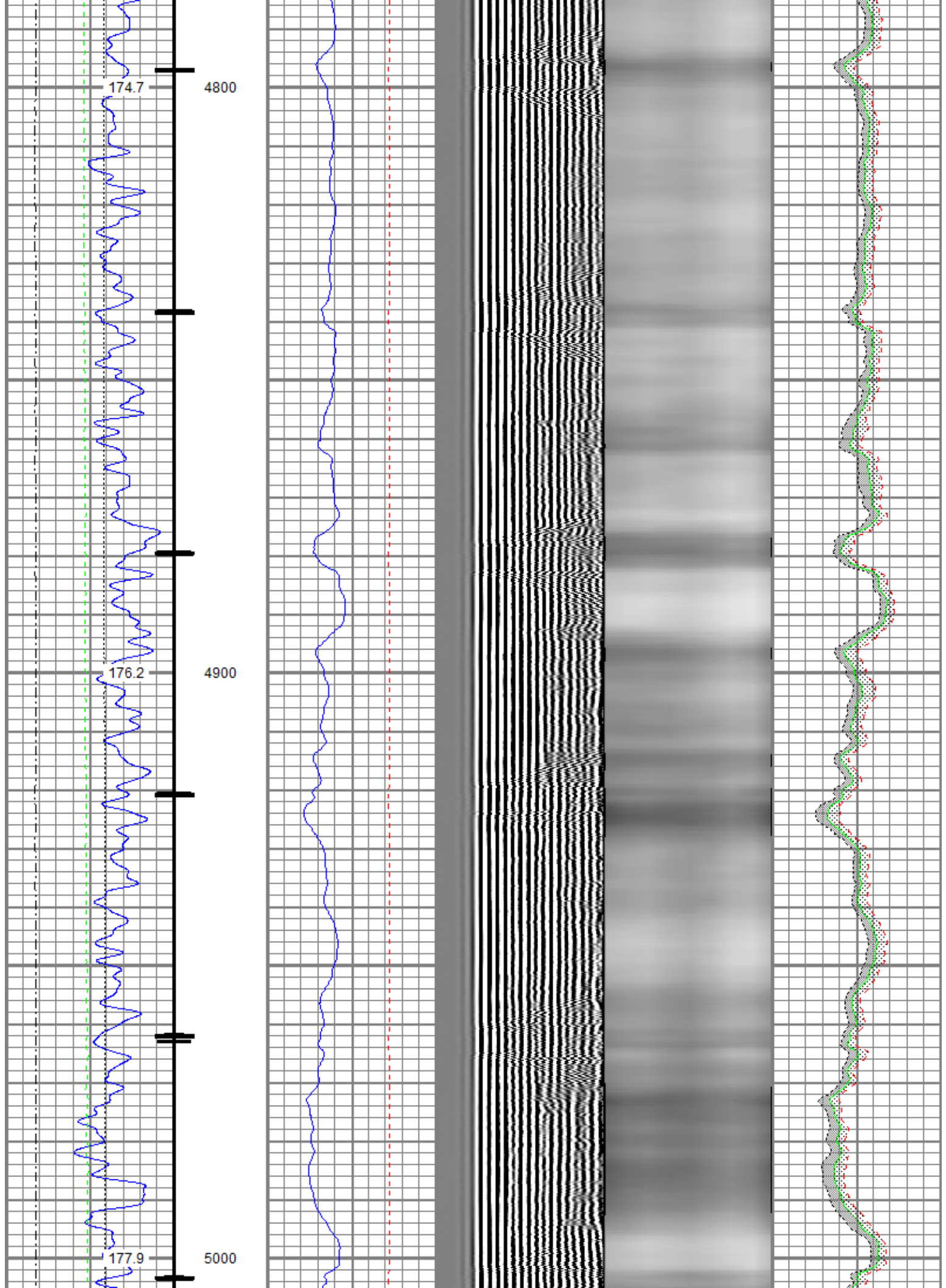


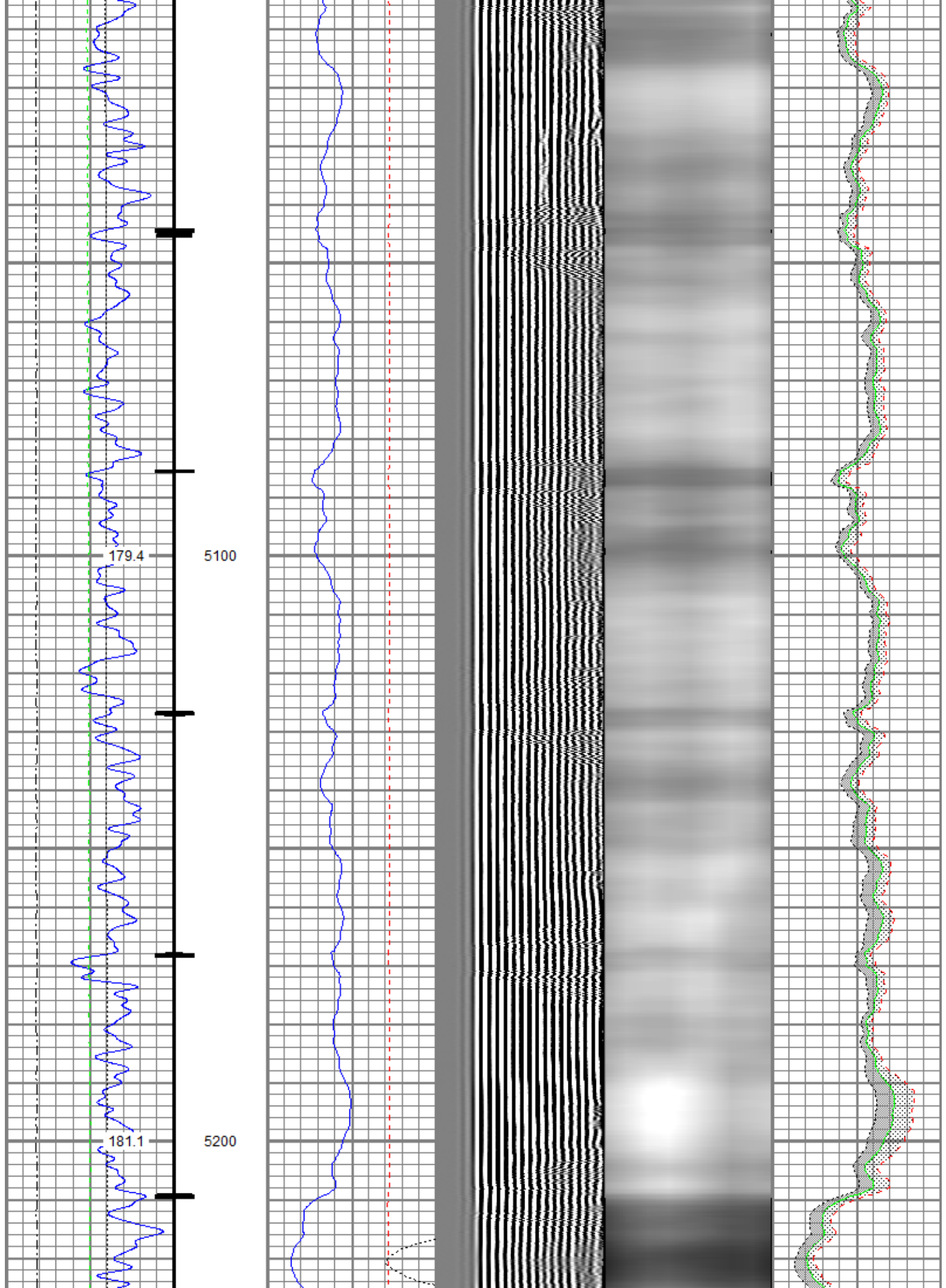


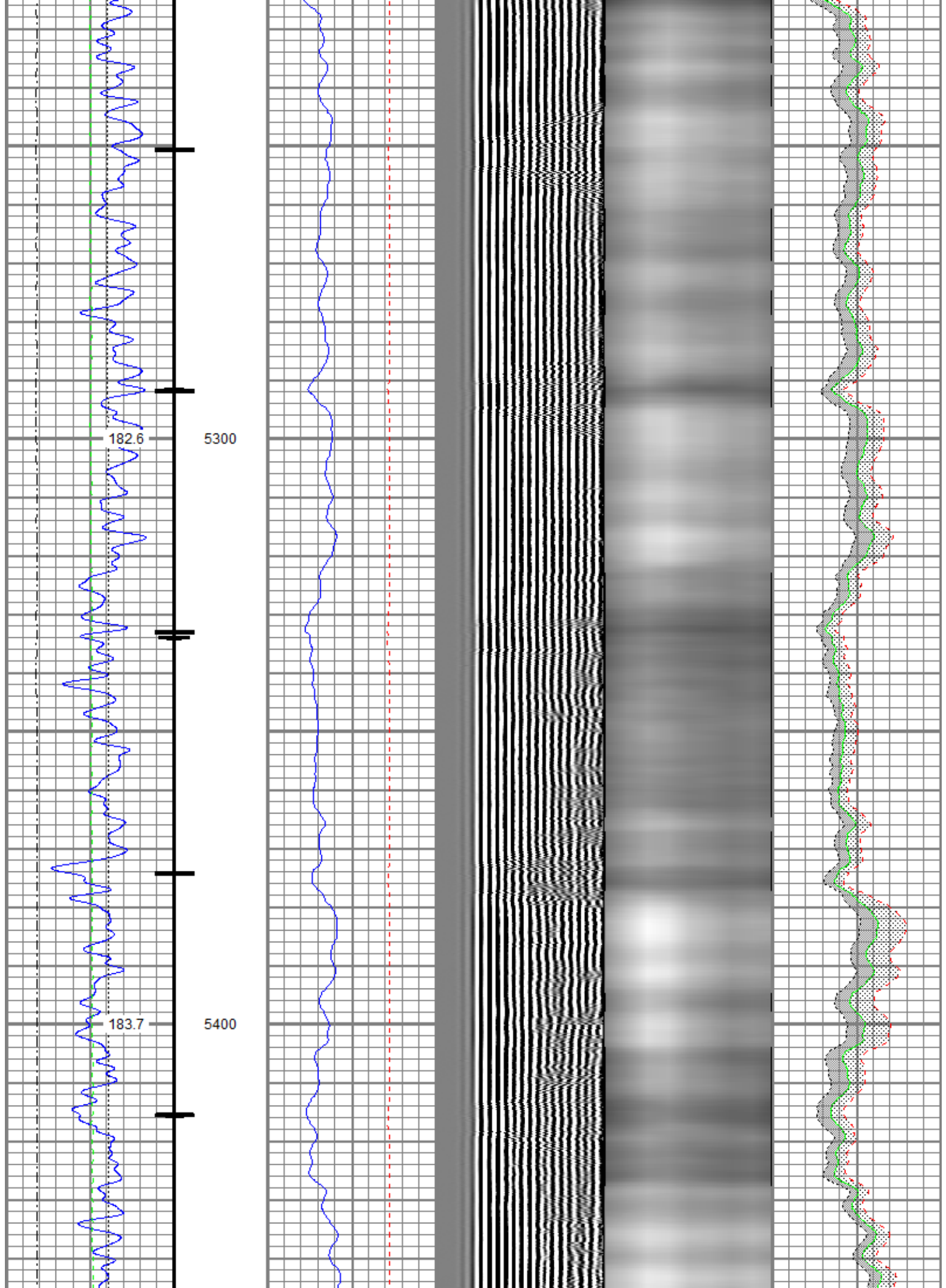


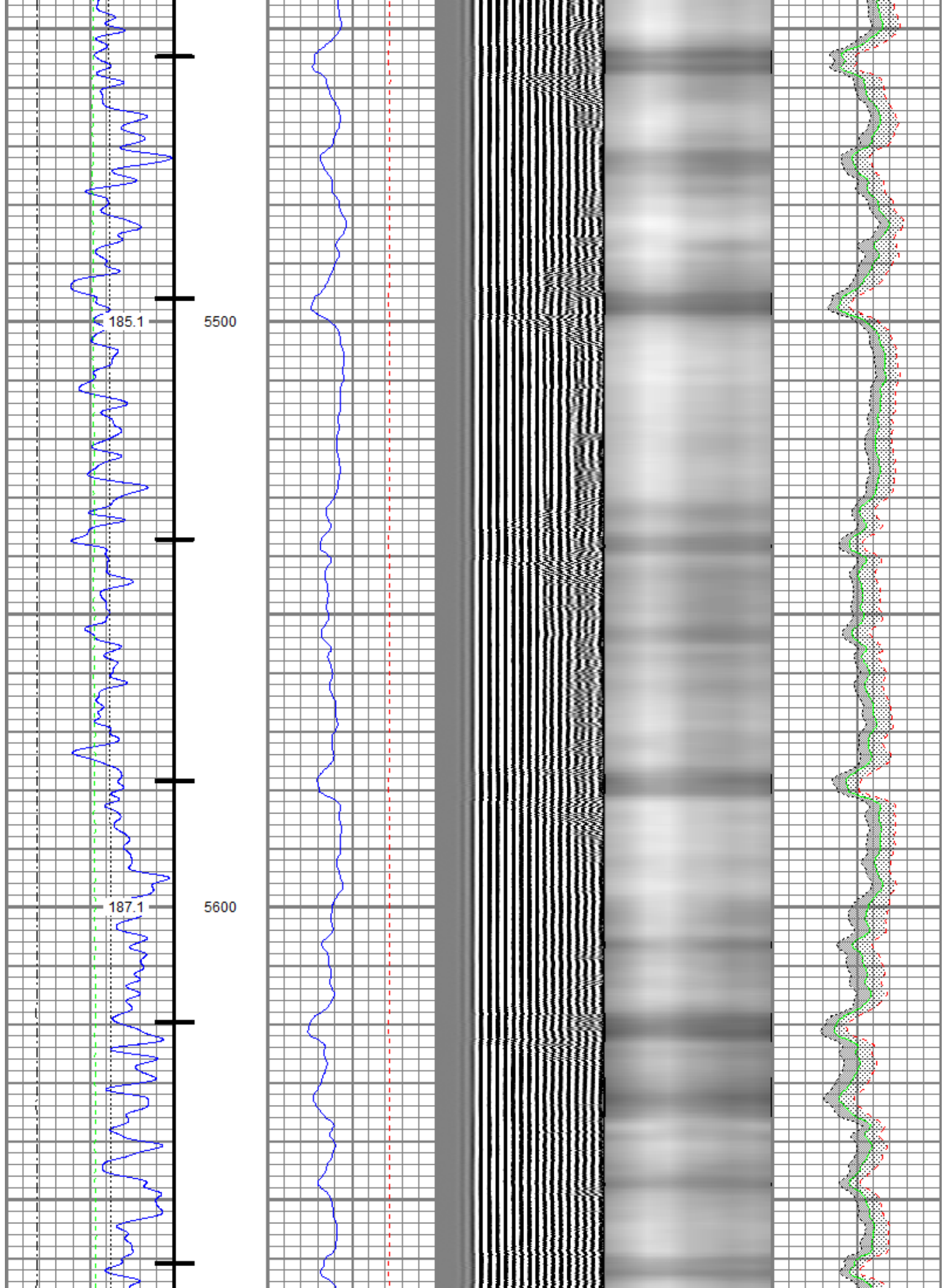


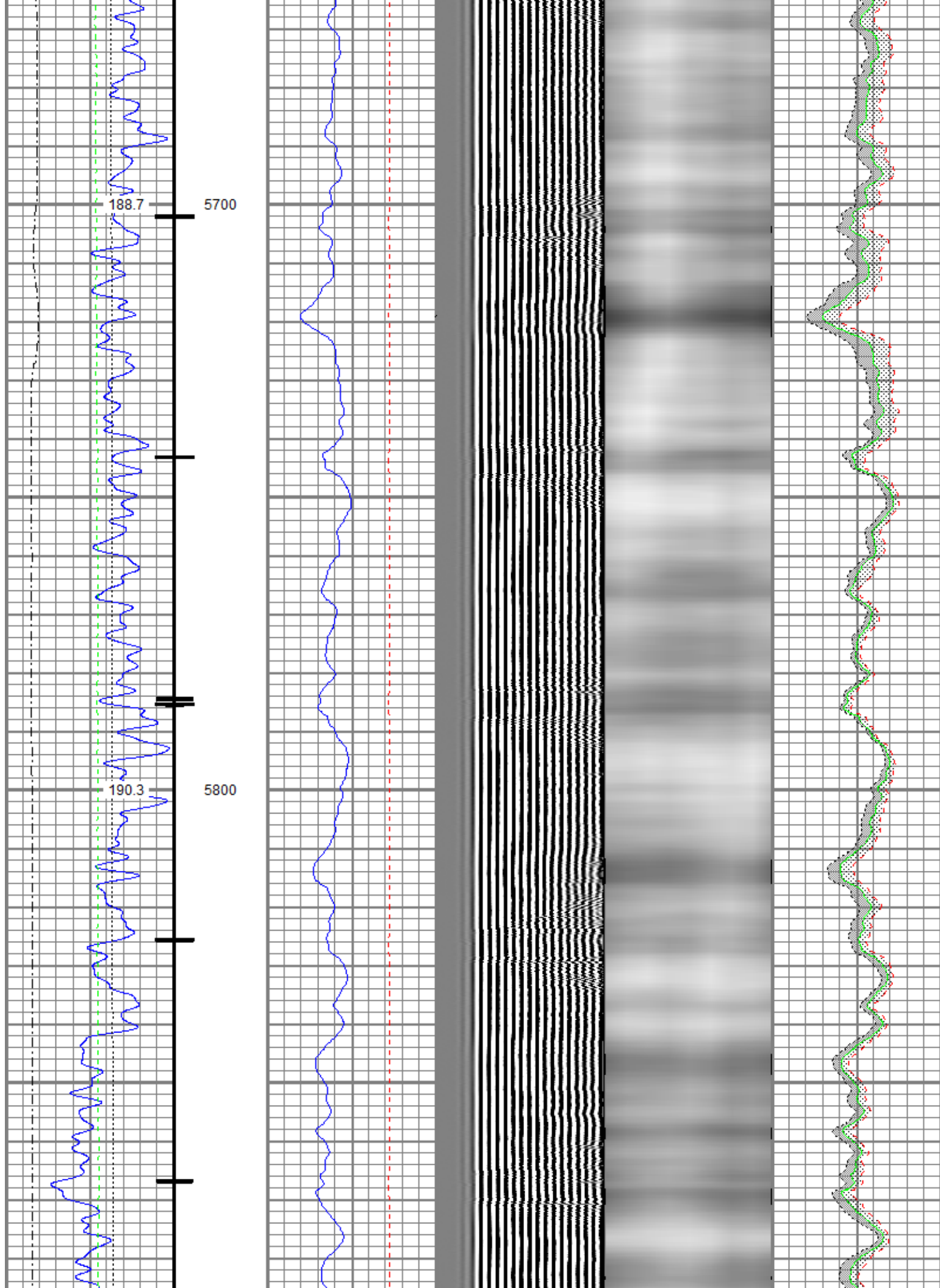


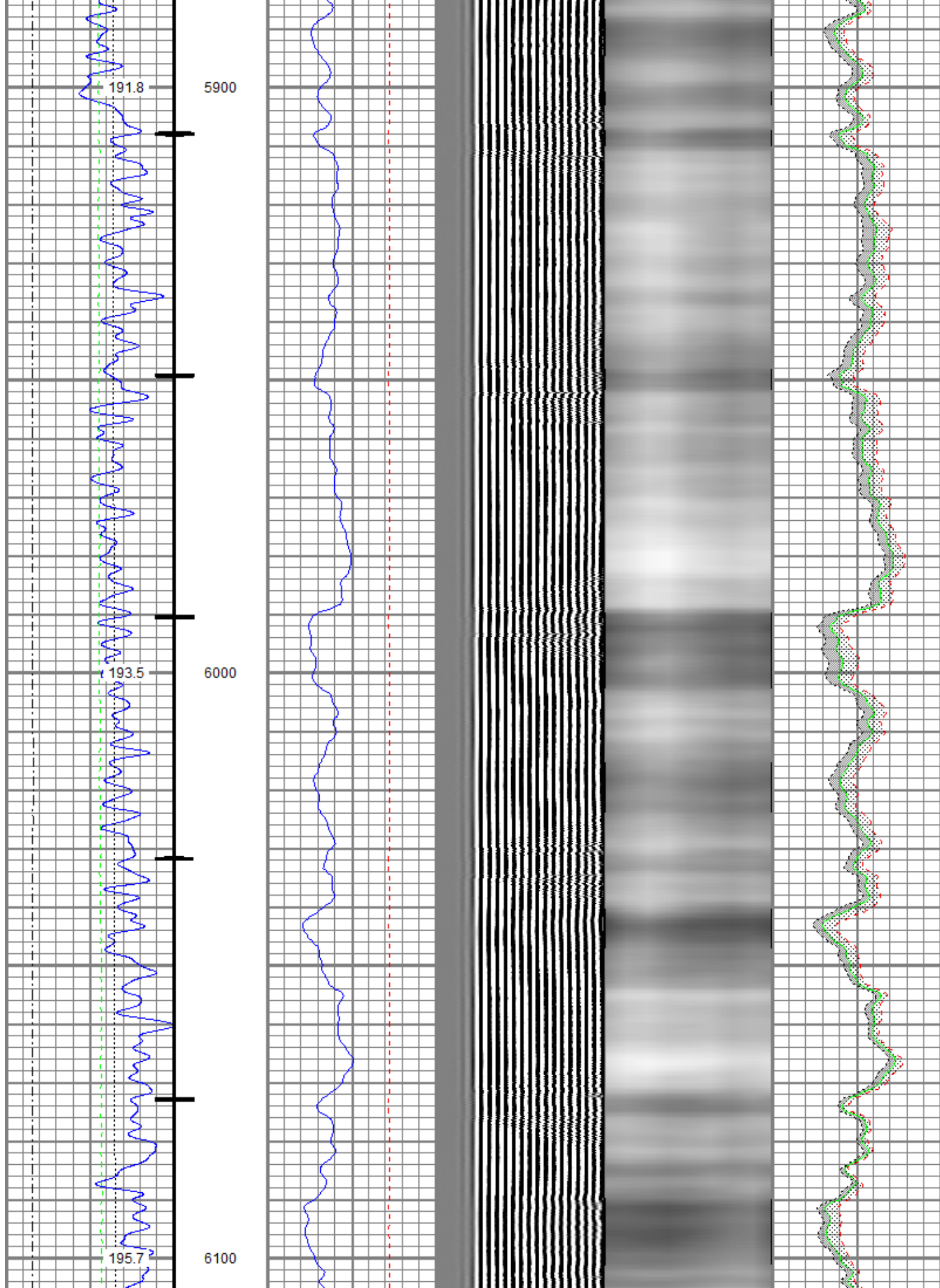


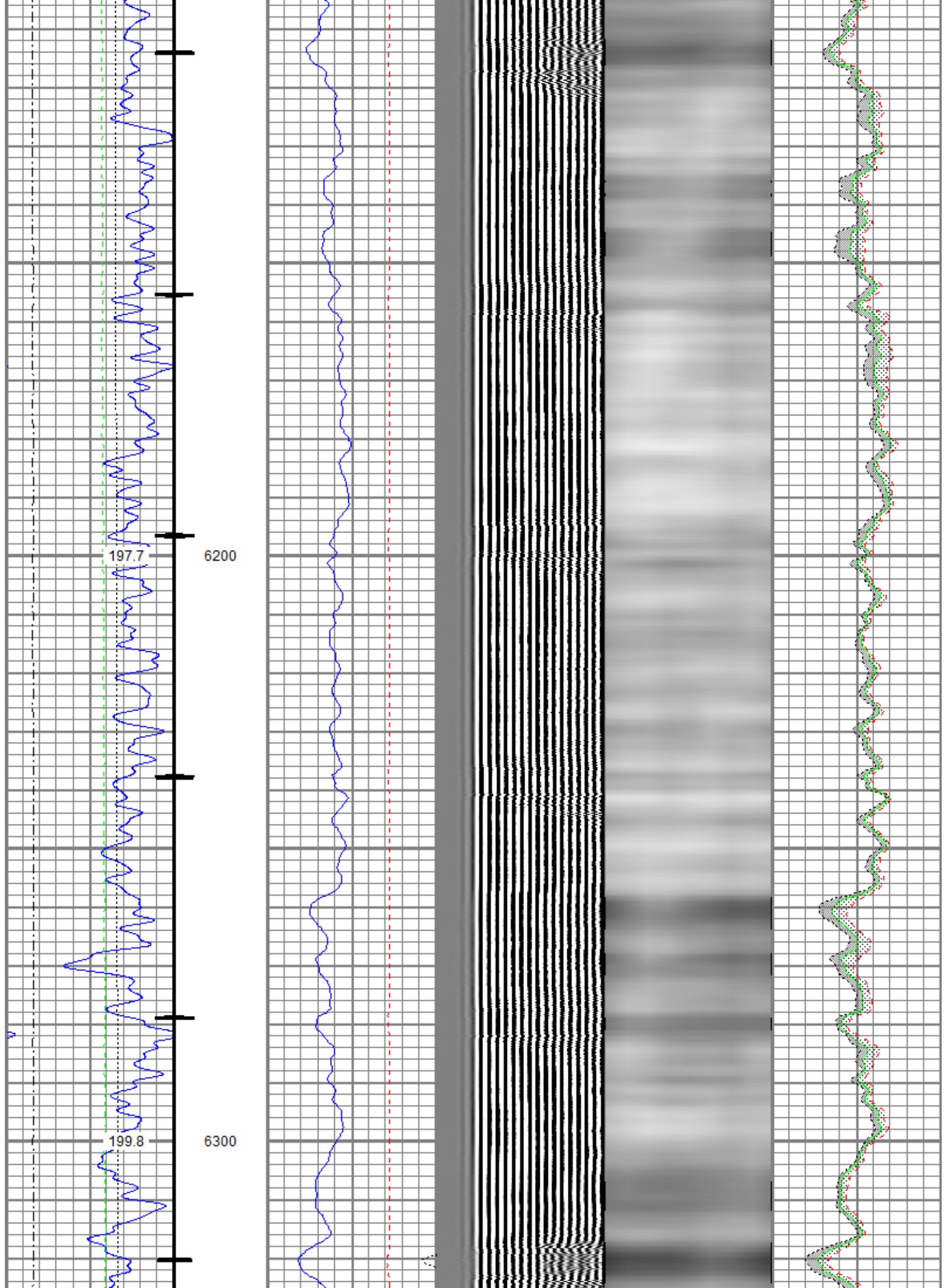


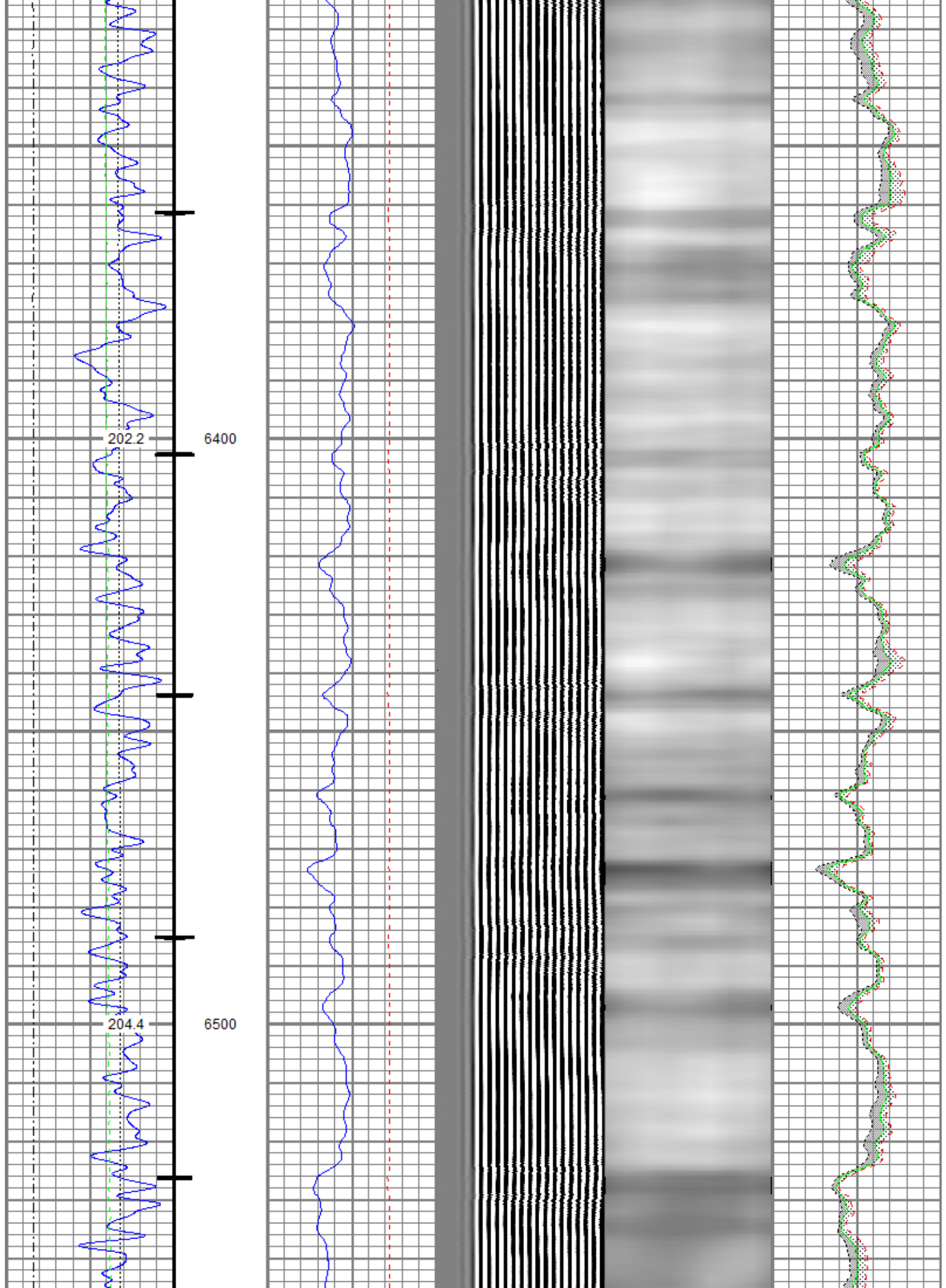


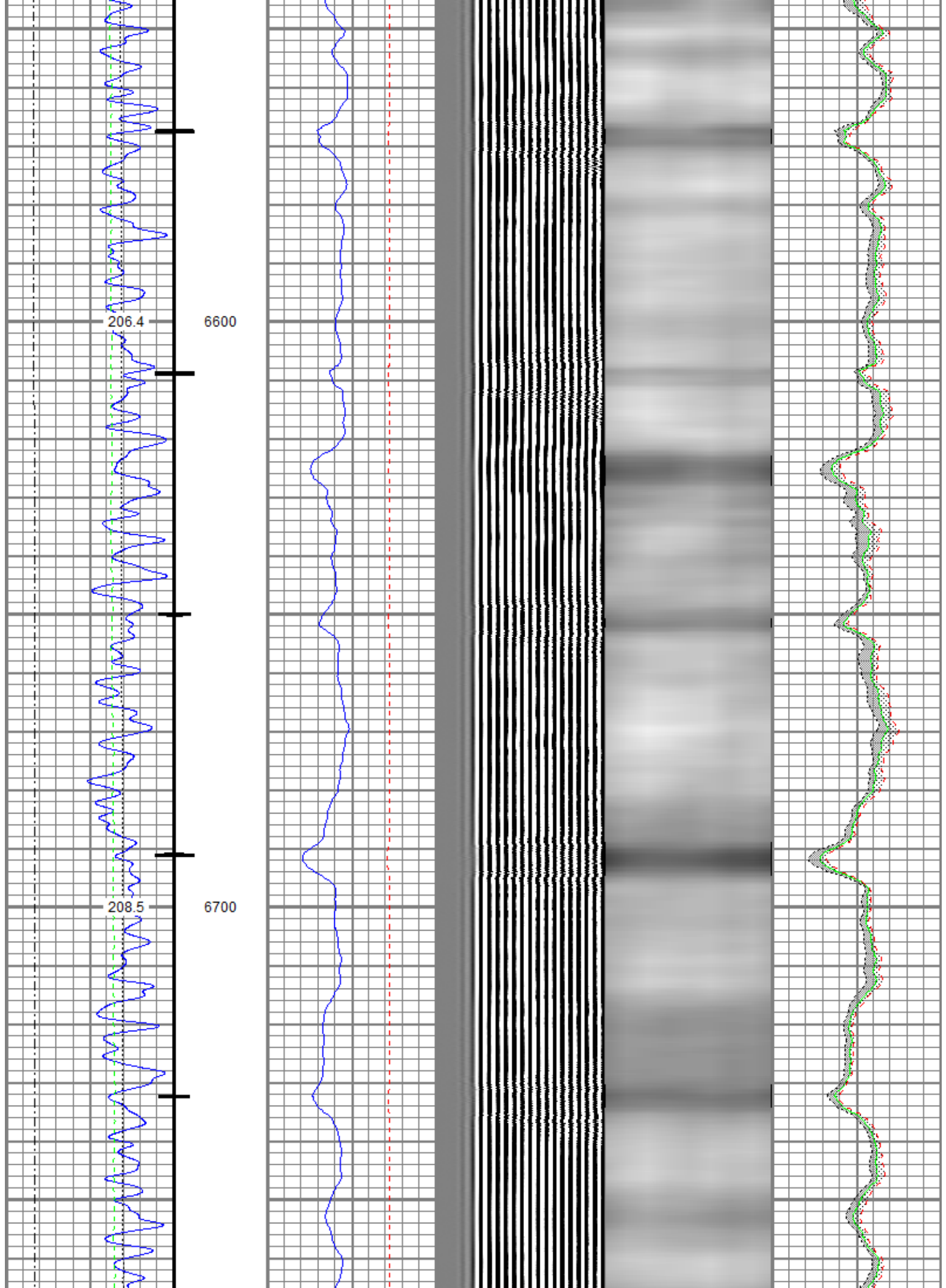


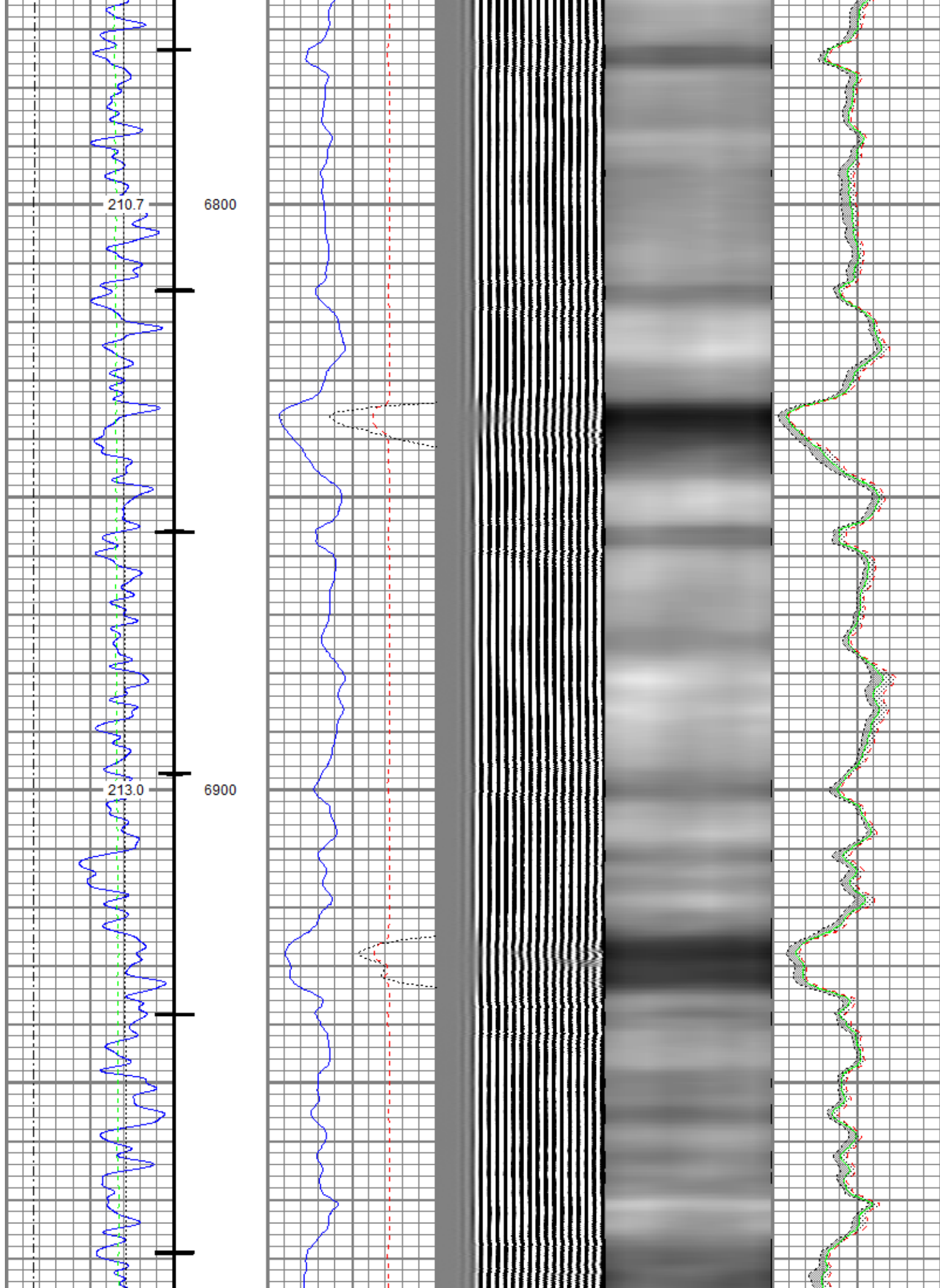


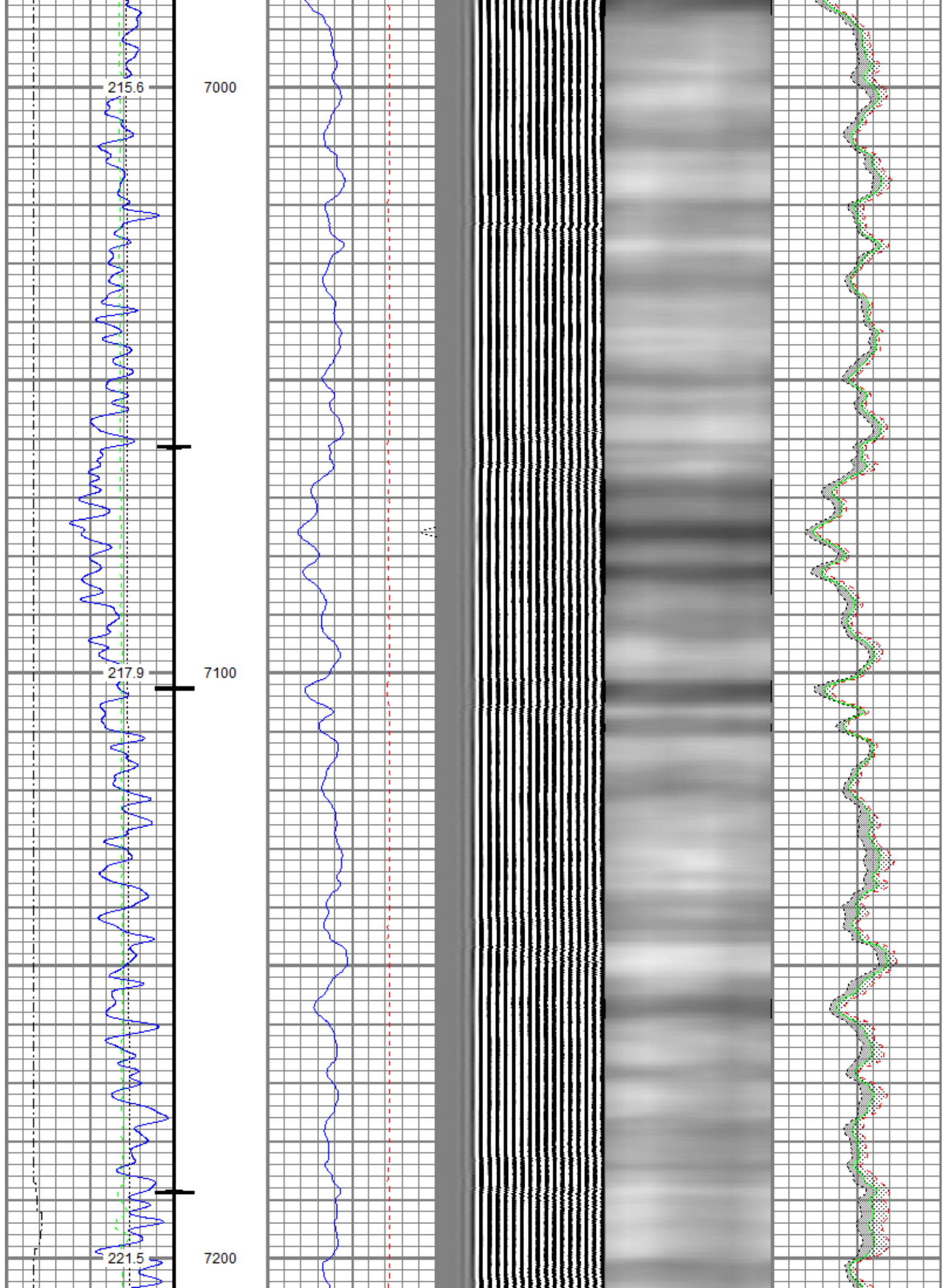


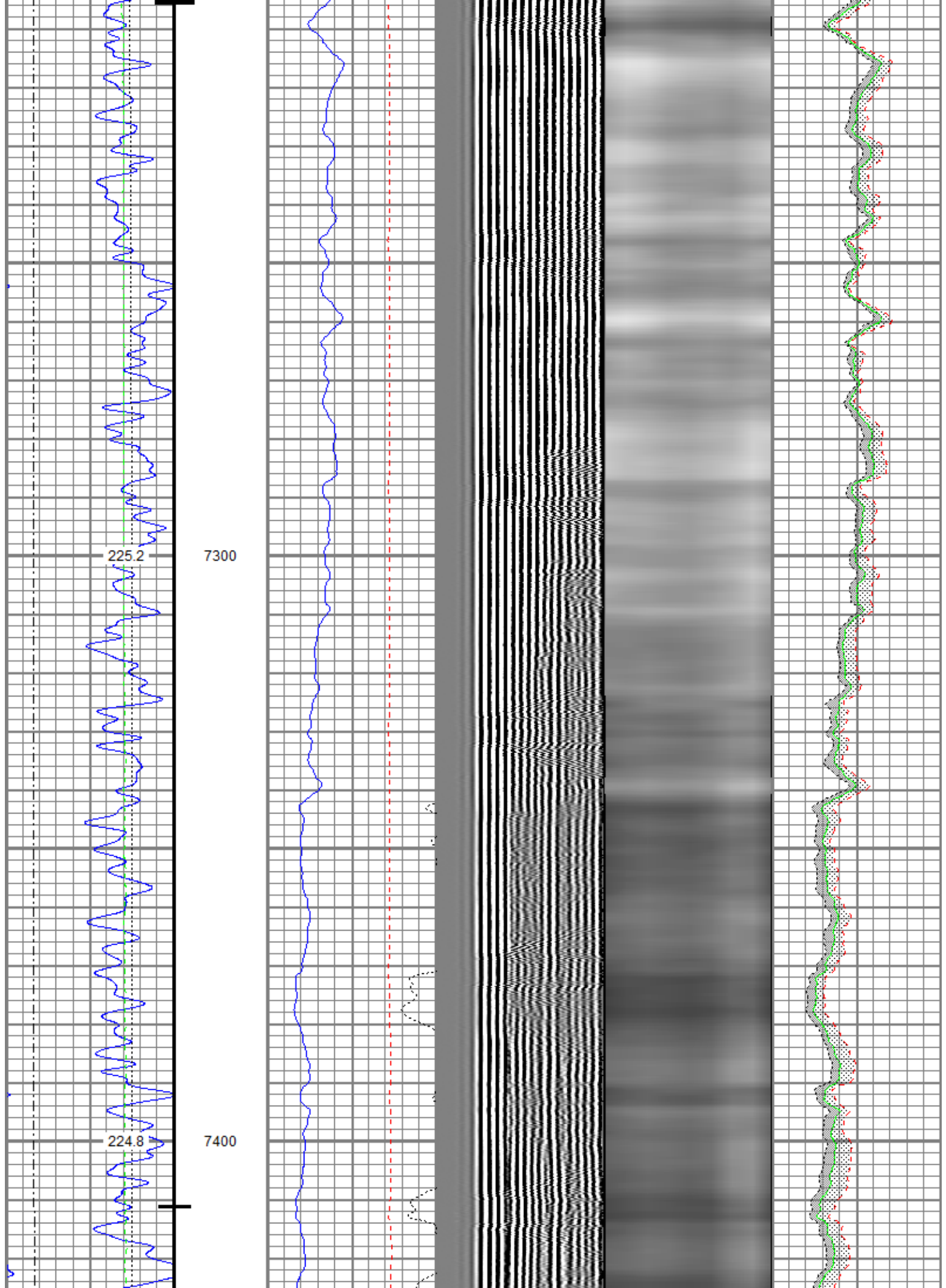


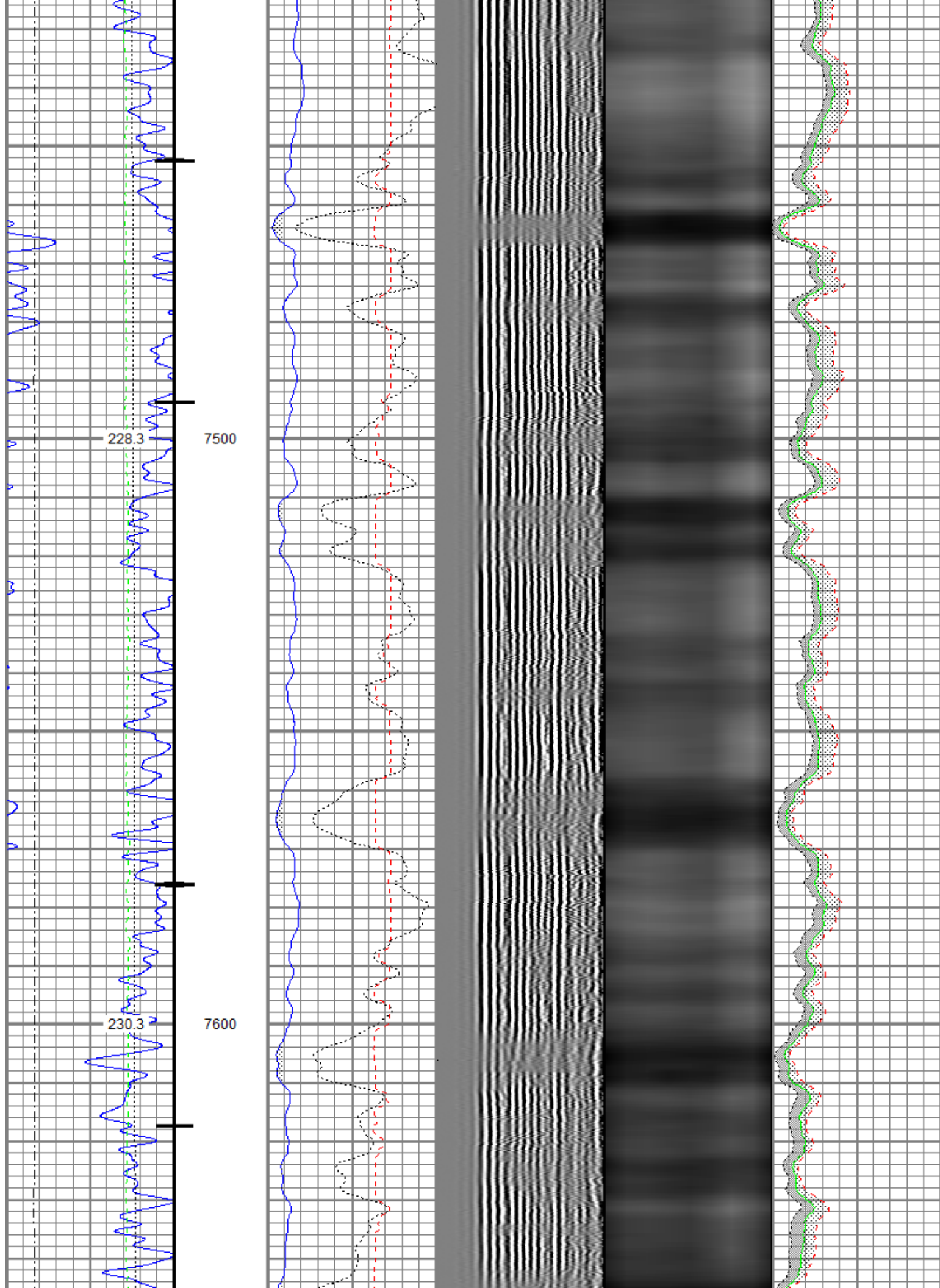


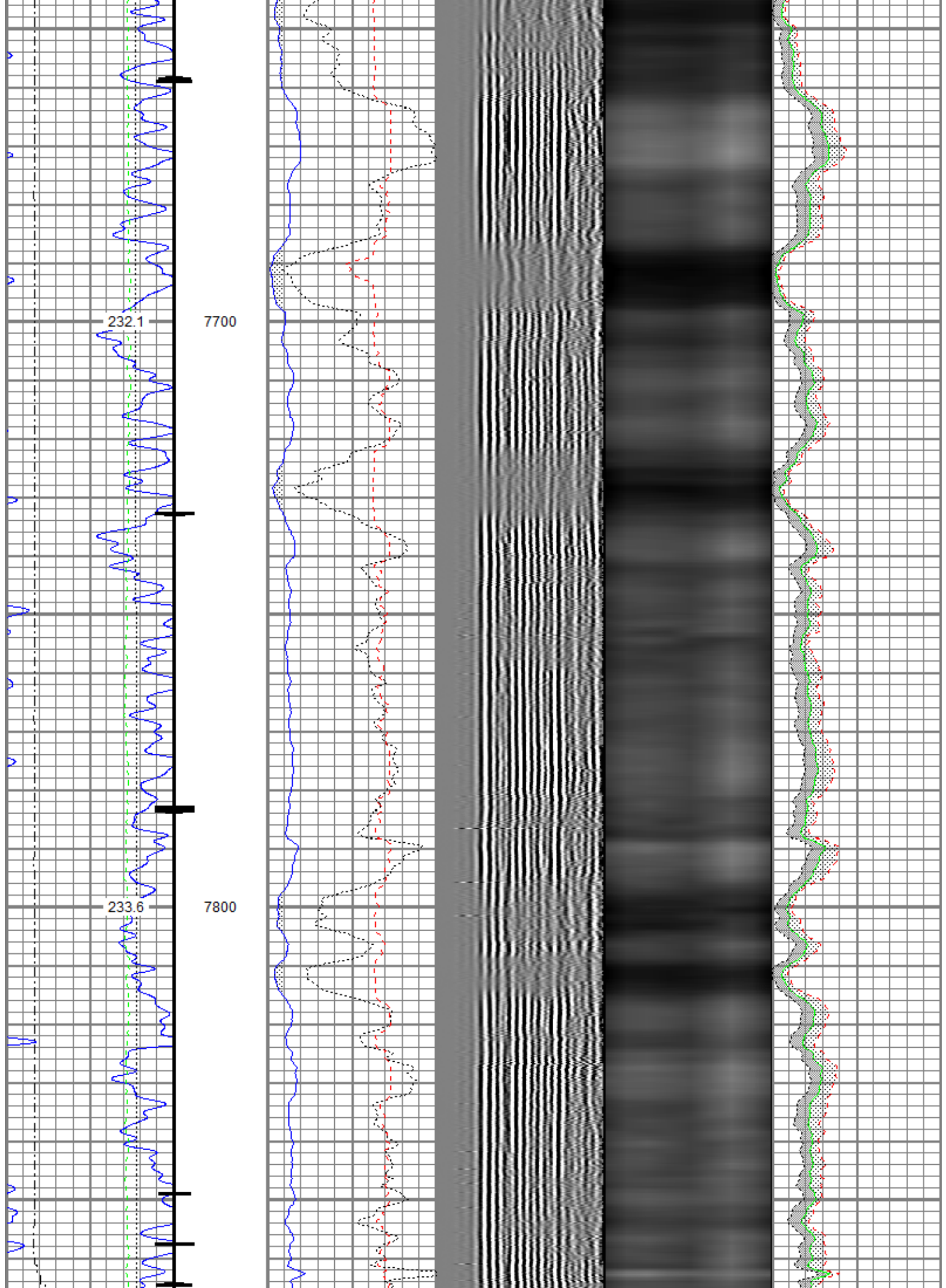


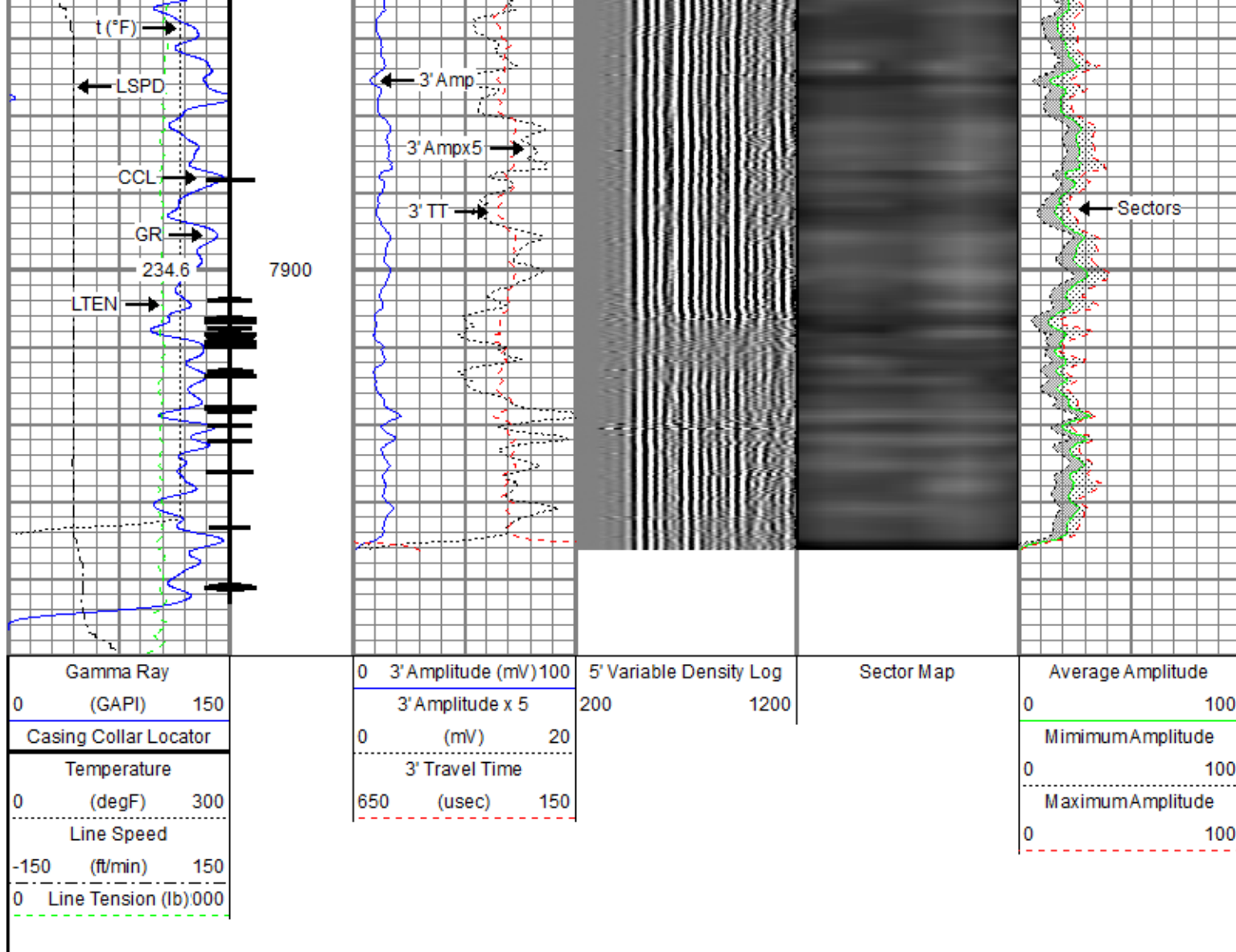






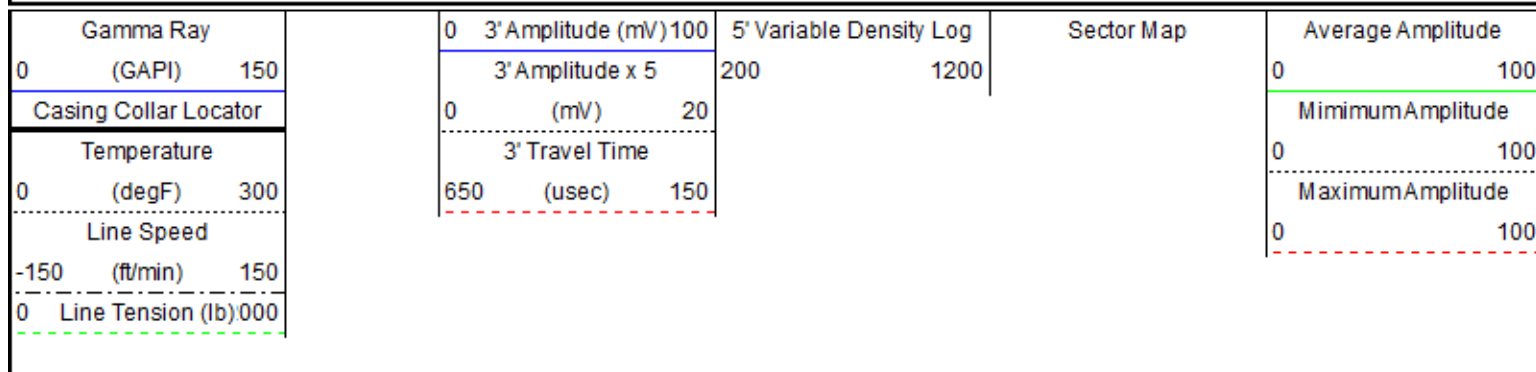


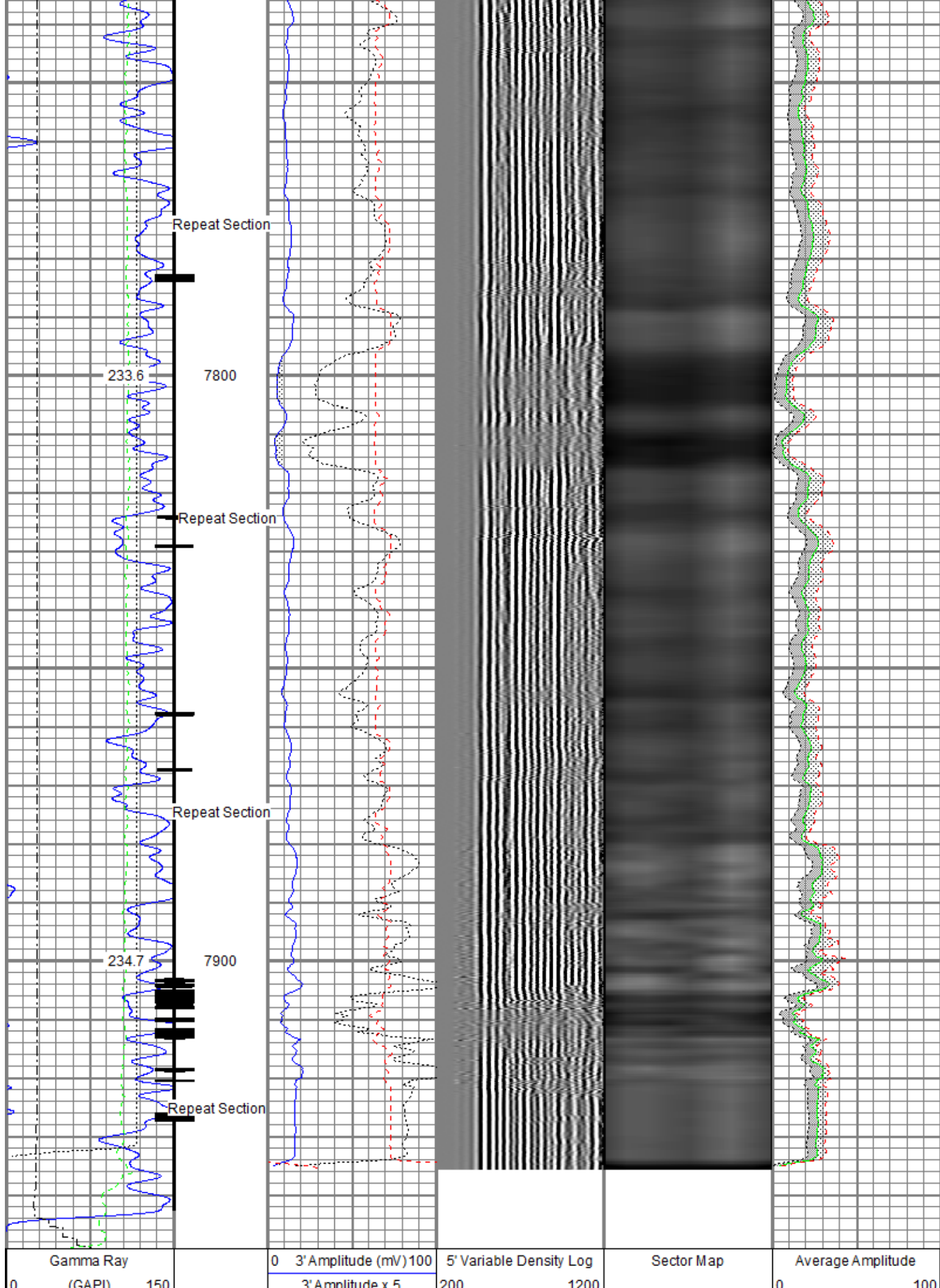






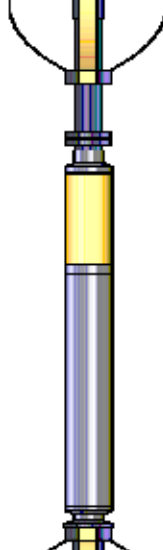
Repeat Pass


Database File: ee3_grizzly 3-32h_rcbl_23-aug-2014.db
 Dataset Pathname: pass6
 Presentation Format: radii
 Dataset Creation: Sat Aug 23 10:43:18 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240





Casing Collar Locator			0 (mV) 20			MinimumAmplitude		
Temperature			3' Travel Time			0 100		
0	(degF)	300	650	(usec)	150	MaximumAmplitude		
Line Speed						0 100		
-150	(ft/min)	150						
0	Line Tension (lb) 000							

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
RHeadVolt	19.51		Titan_1_11_16	1.04	1.44	5.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Temp	16.68		Probe_RADII-C-2-3/4" (FW1305-96) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.21	2.75	100.00
WVF3FT	14.57					
WVFCAL	14.57					
WVFS1	14.57					
WVFS2	14.57					
WVFS3	14.57					
WVFS4	14.57					
WVFS5	14.57					
WVFS6	14.57					
WVFS7	14.57					
WVFS8	14.57					
WVF5FT	13.57					
CCL DCCL	6.59		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
	6.59		Probe_CCL_GR-2.75" Digital (FW1307-38) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.58	2.75	55.00
GR	5.25					

			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: ee3_grizzly 3-32h_rcbl_23-aug-2014.db: field/well/run1/pass7 Total Length: 23.47 ft Total Weight: 190.00 lb O.D.: 2.75 in						

Calibration Report	
Database File:	ee3_grizzly 3-32h_rcbl_23-aug-2014.db
Dataset Pathname:	pass7
Dataset Creation:	Sat Aug 23 10:47:42 2014 by Log SCH 111116

Gamma Ray Calibration Report		
Serial Number:	FW1307-38	
Tool Model:	2.75"Digital	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1305-96	
Tool Model:	2-3/4"	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	114.924	ft

Master Calibration, performed Sat Aug 23 10:18:11 2014:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.691	0.800	71.921	103.157	0.638
CAL	1.004	1.005				
5'	0.018	0.649	0.800	71.921	112.774	-1.240
SUM						
S1	0.045	0.691	0.000	100.000	154.727	-6.969
S2	0.000	0.676	0.000	100.000	148.052	-0.018
S3	-0.001	0.663	0.000	100.000	150.544	0.200
S4	-0.001	0.681	0.000	100.000	146.553	0.199
S5	-0.001	0.685	0.000	100.000	145.638	0.169
S6	-0.002	0.687	0.000	100.000	145.259	0.220
S7	-0.001	0.698	0.000	100.000	142.902	0.204
S8	-0.001	0.706	0.000	100.000	141.412	0.209

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.004	1.005	1.000	0.000

Air Zero Calibration, performed Sat Aug 23 09:56:04 2014:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

	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	EE3, LLC	
	Well	Grizzly 3-32H	
	Field	North Park	
	County	Jackson	
	State	Colorado	Country