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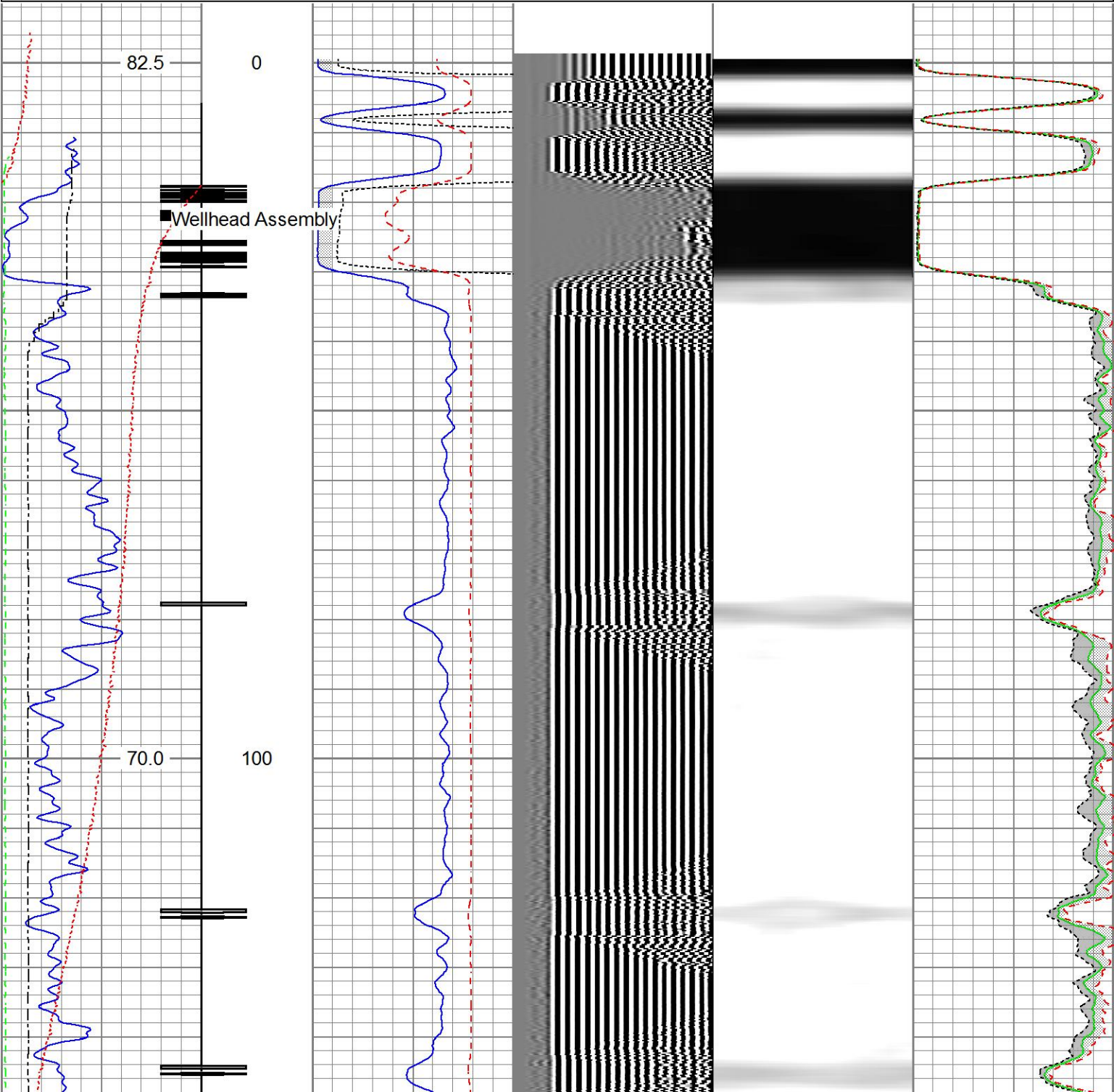
Comments

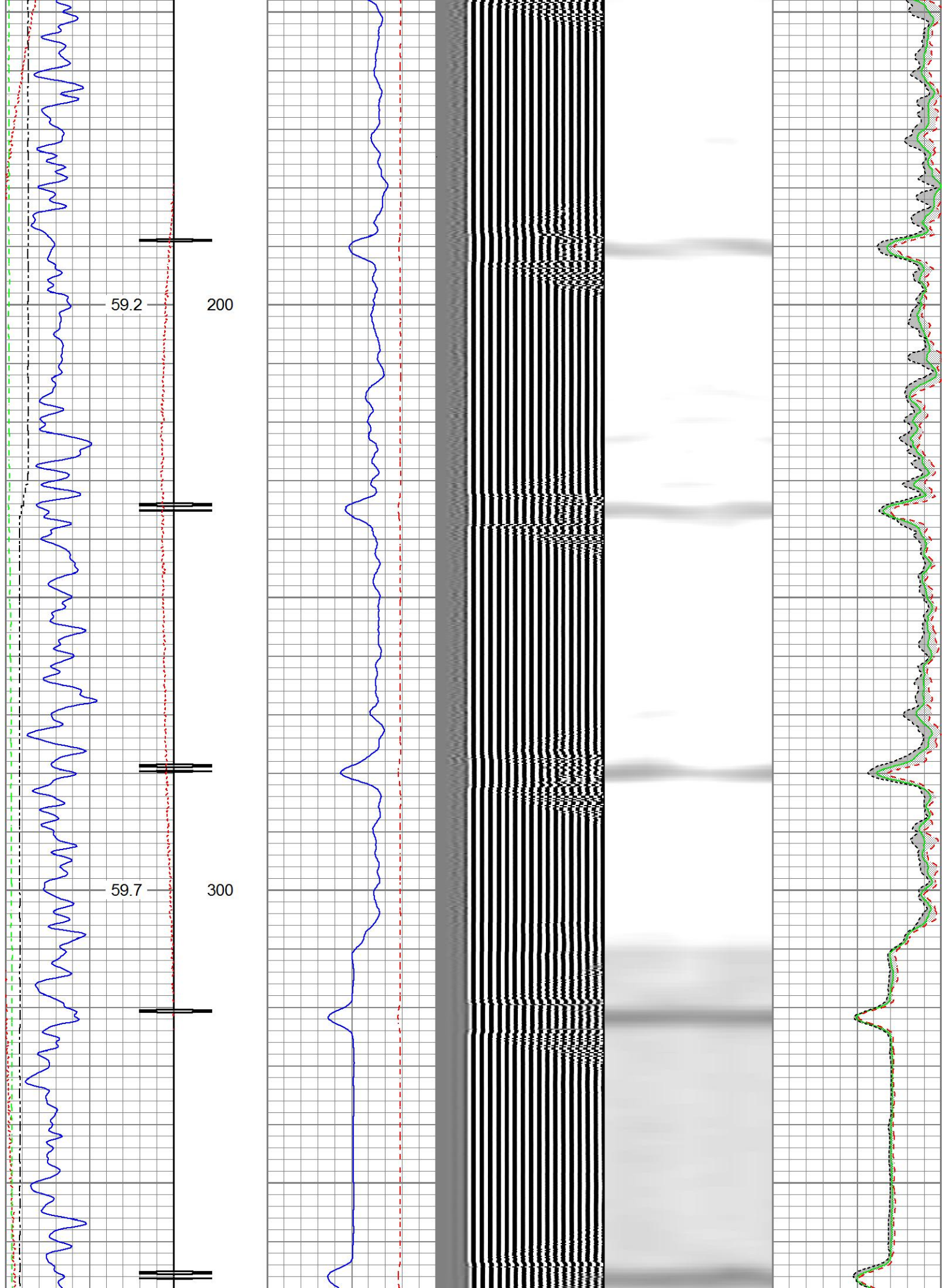


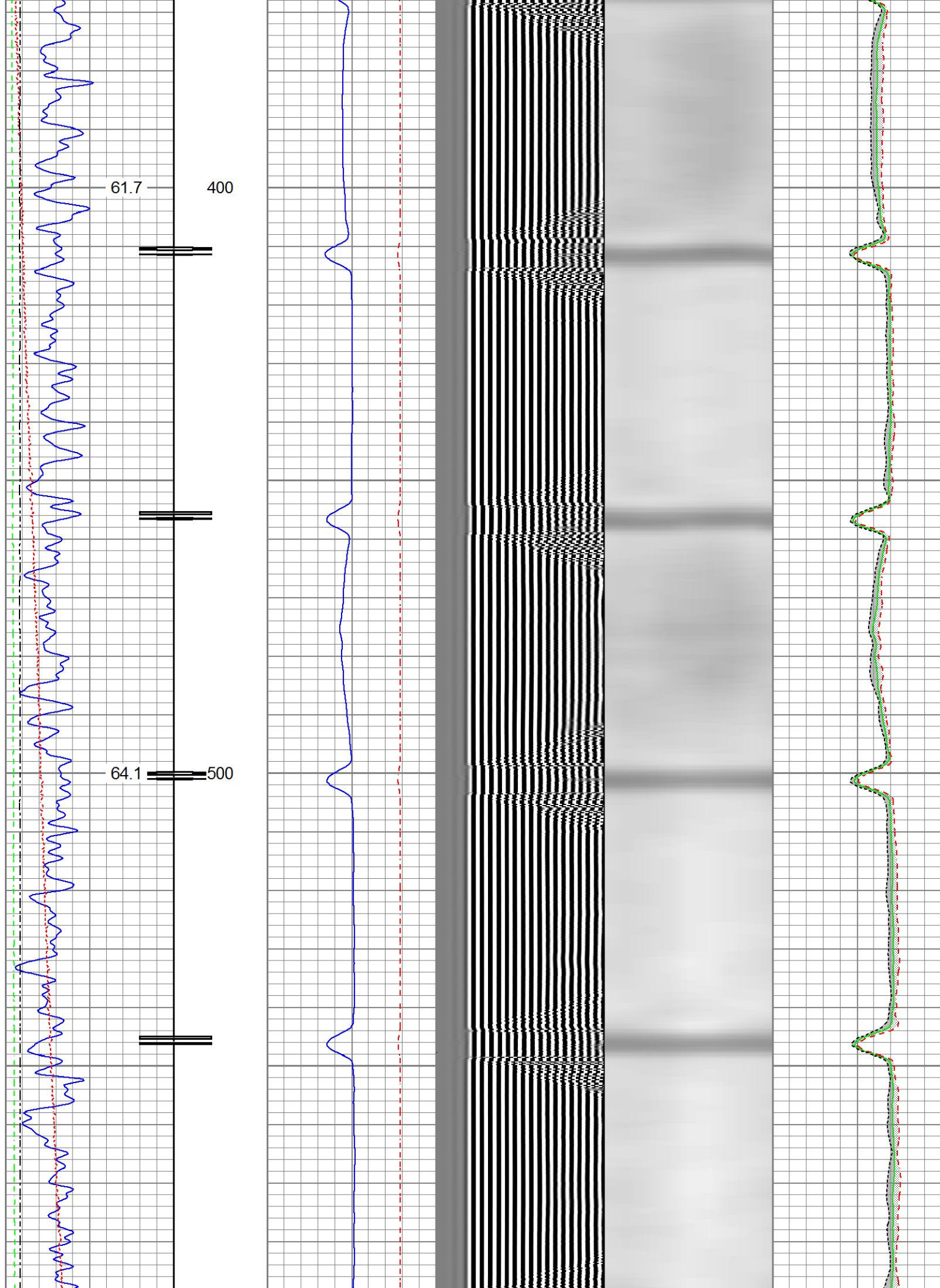
RELIANCE
OILFIELD SERVICES

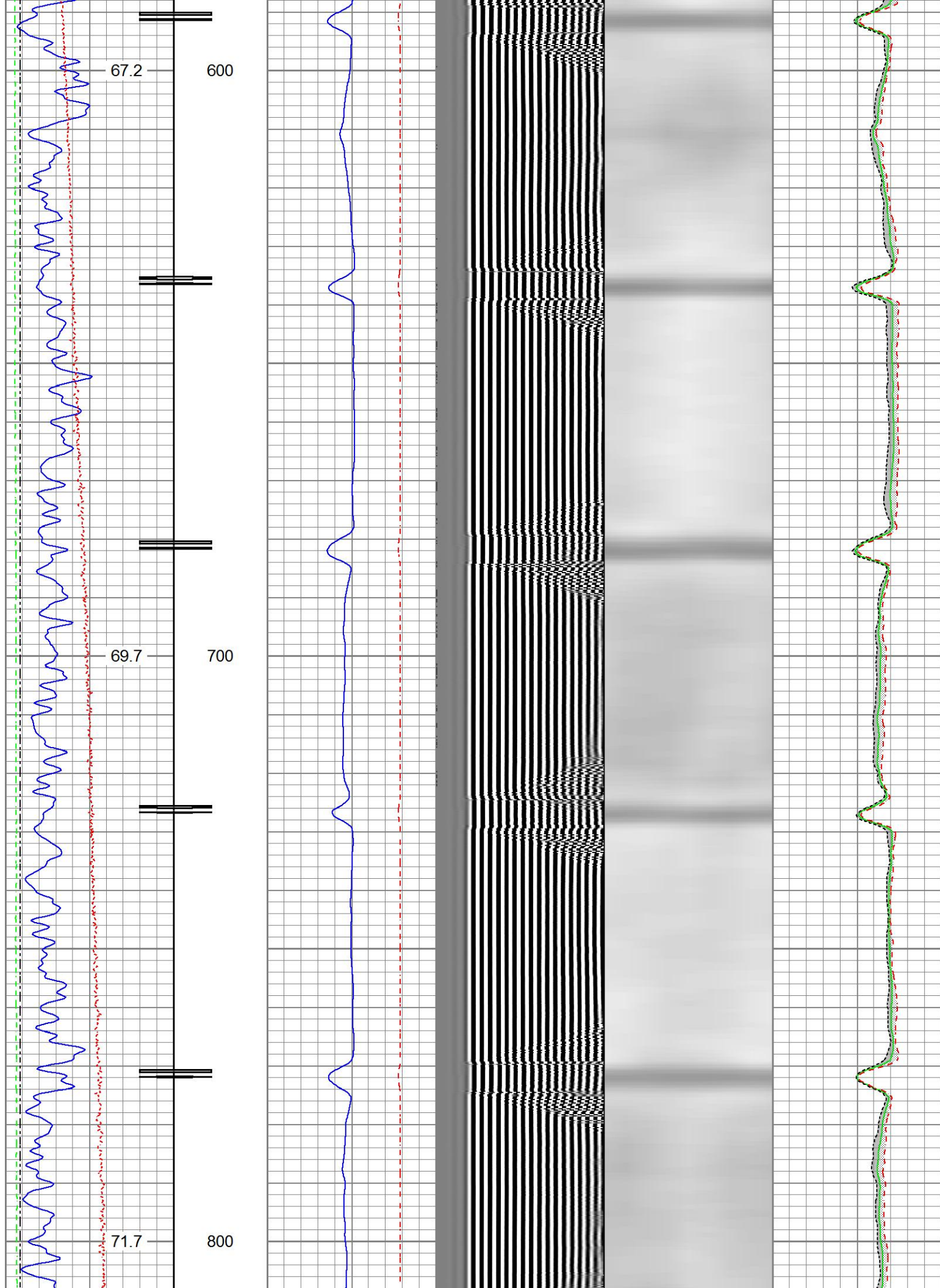
Recorded With 2800 PSI Surface Induced Pressure

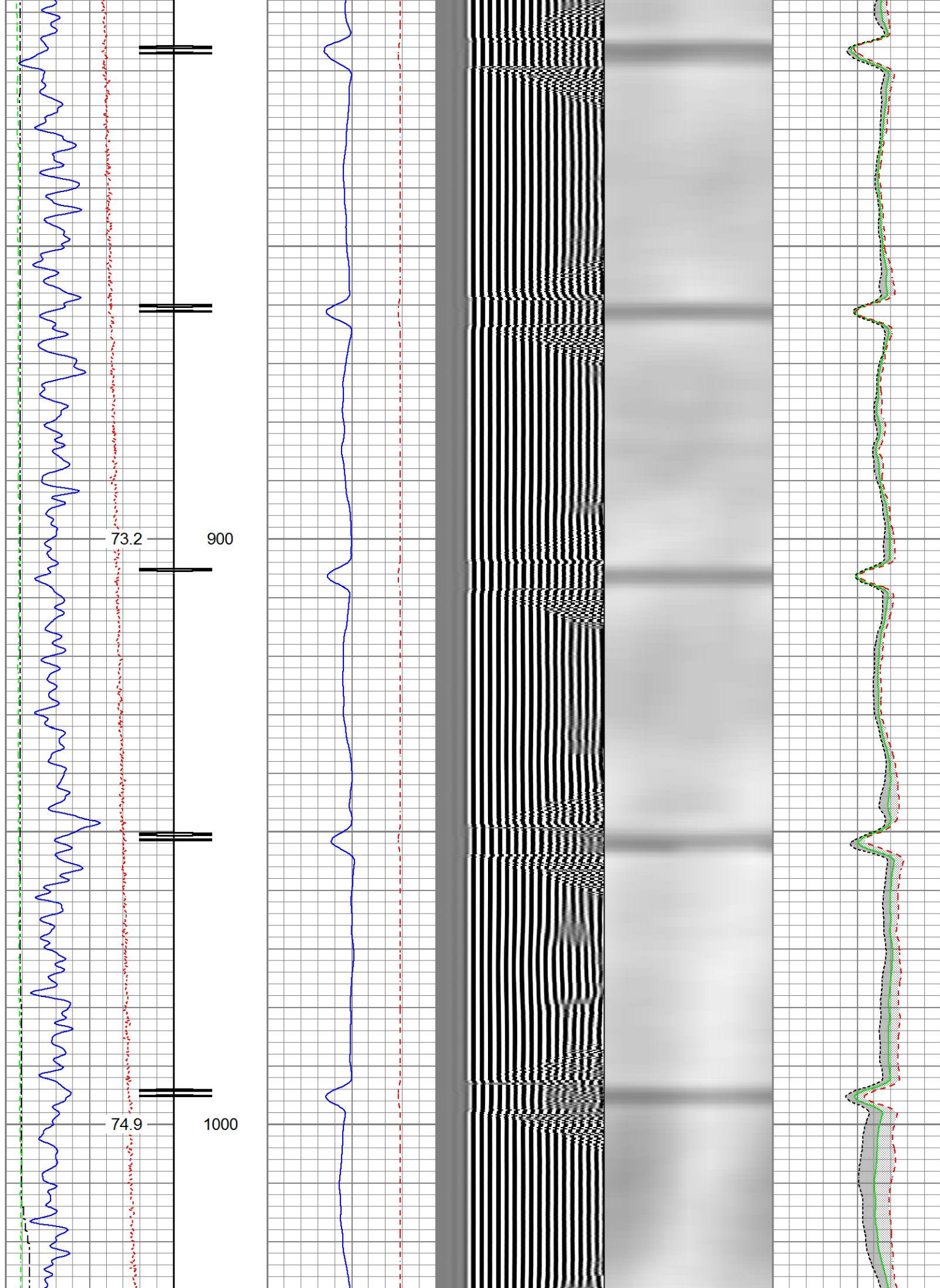
Gamma Ray		3' Amplitude		5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI) 120	0	(mV) 100	200	1200			0	100
Casing Collar Locator		3' Amplitude x 5						Minimum Amplitude	
Temperature		0 (mV) 20						0 100	
Line Speed		3' Travel Time						Maximum Amplitude	
-150 (ft/min) 150		650 (usec)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

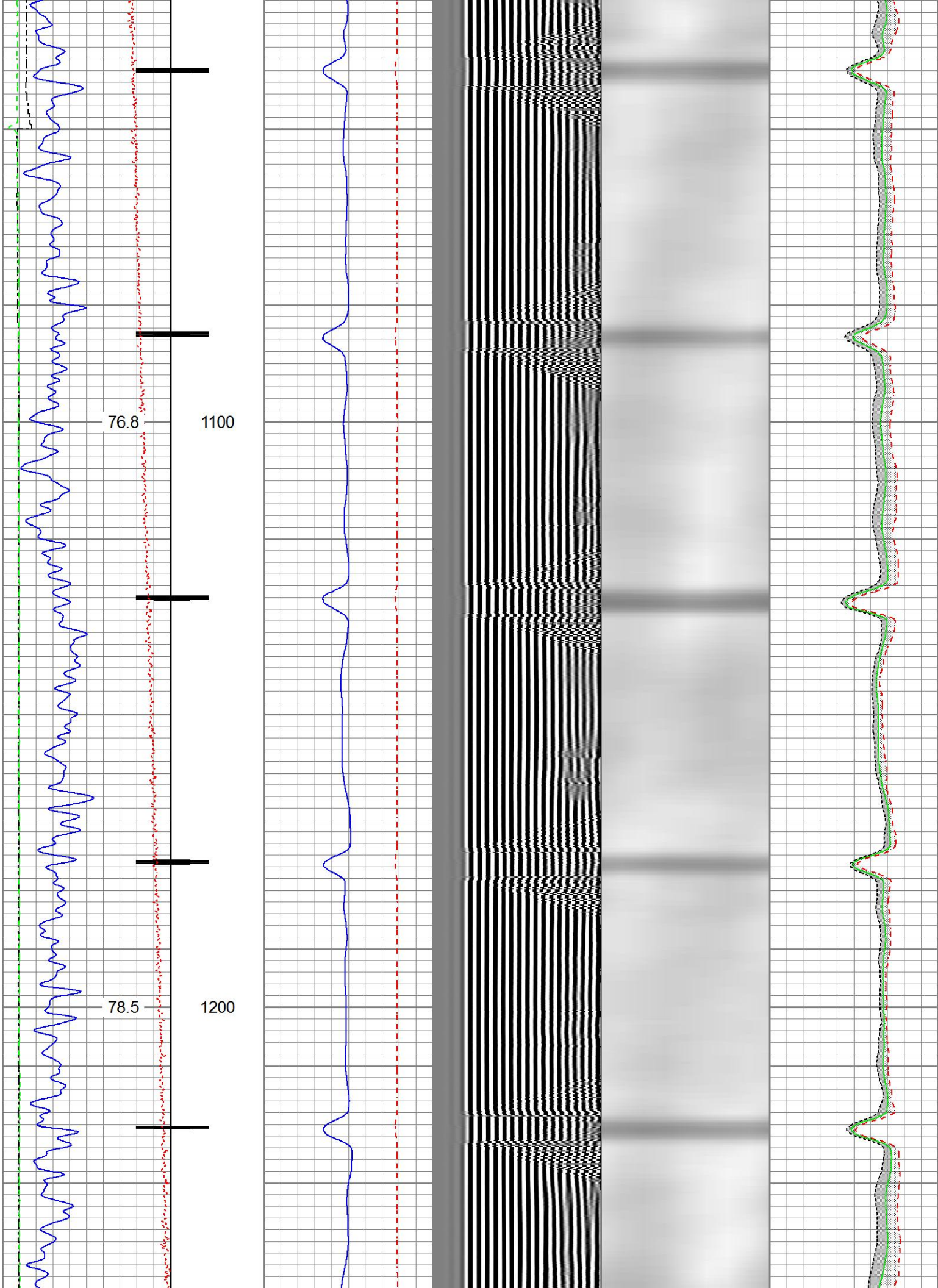


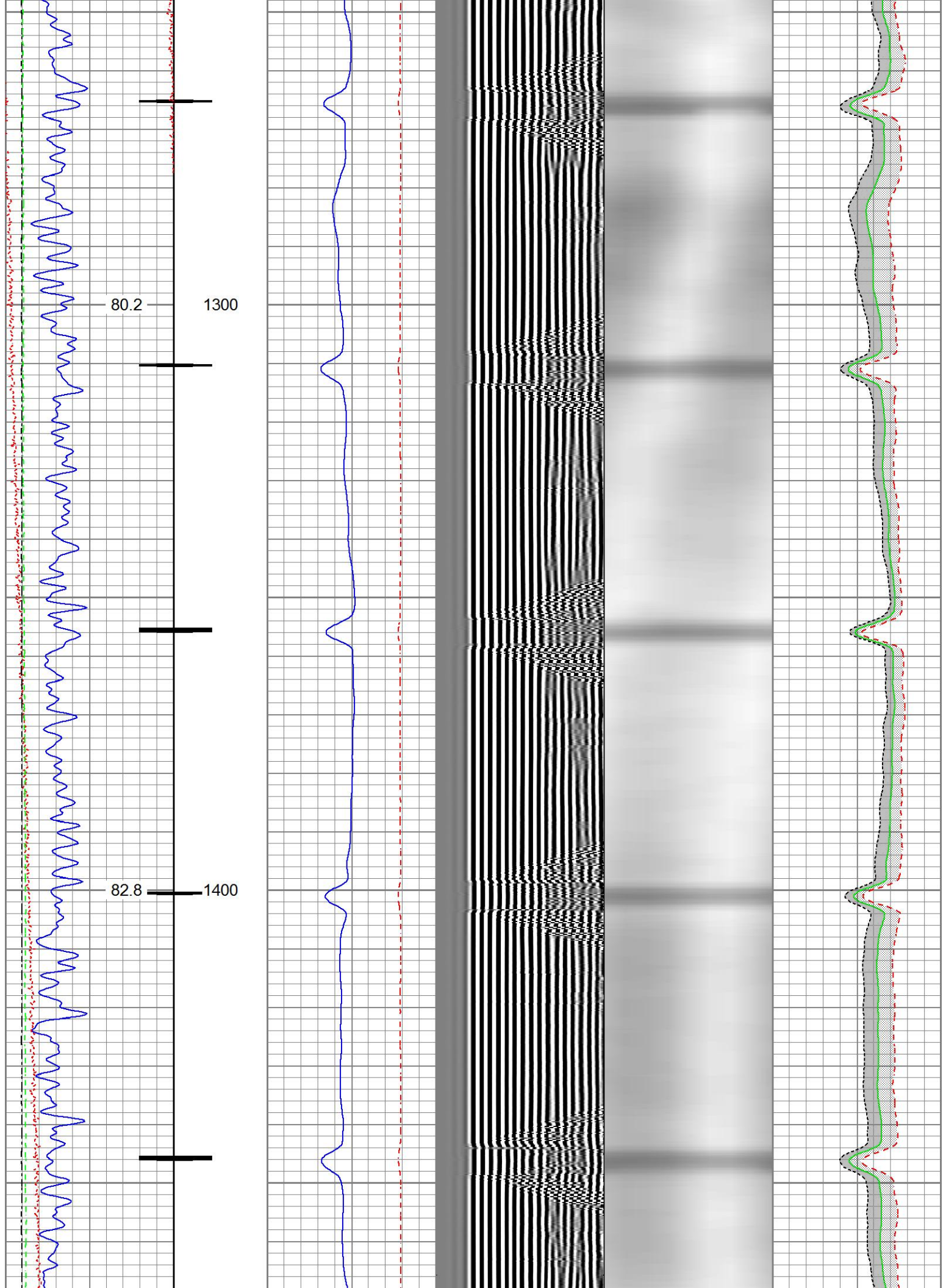


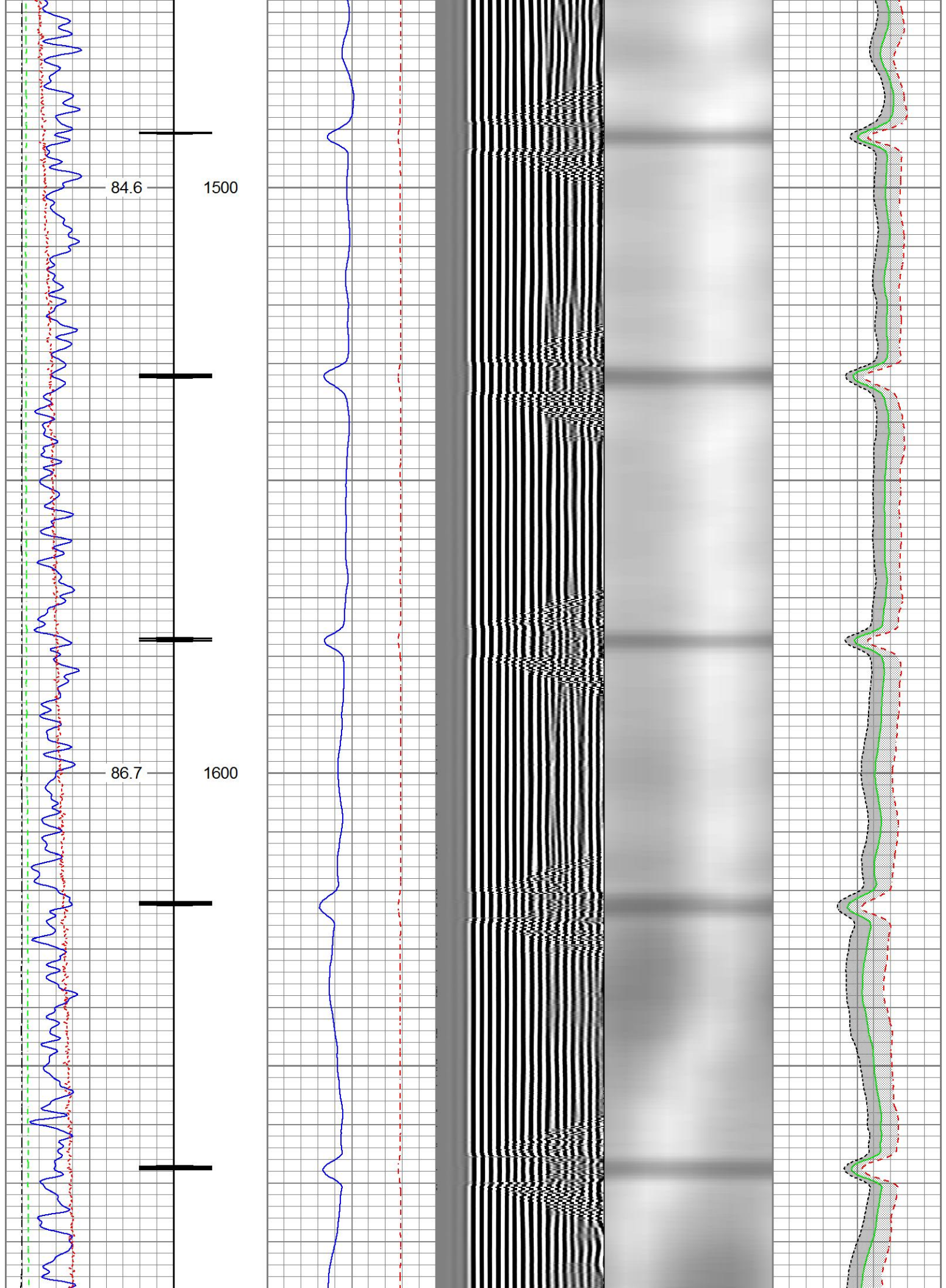


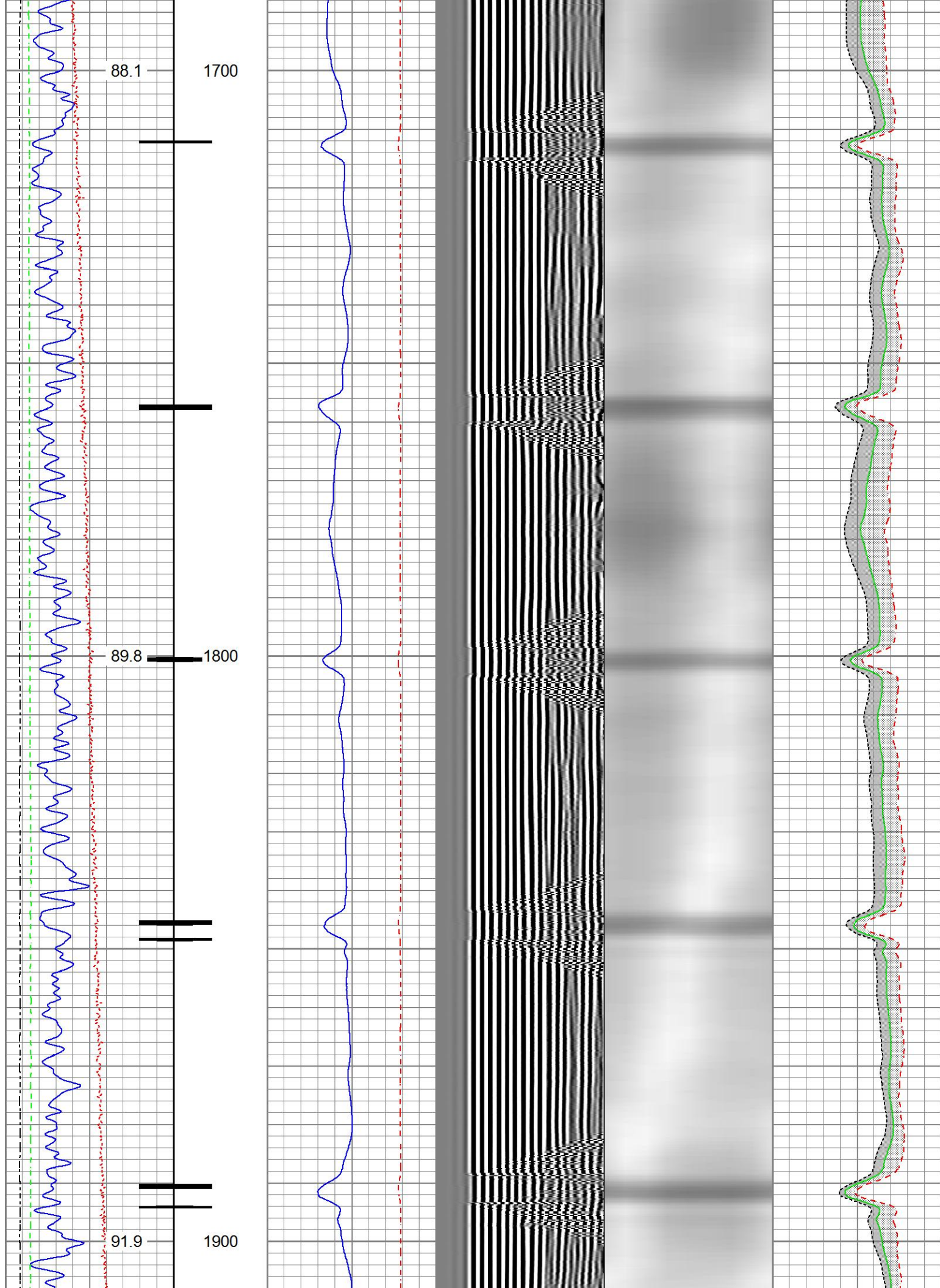


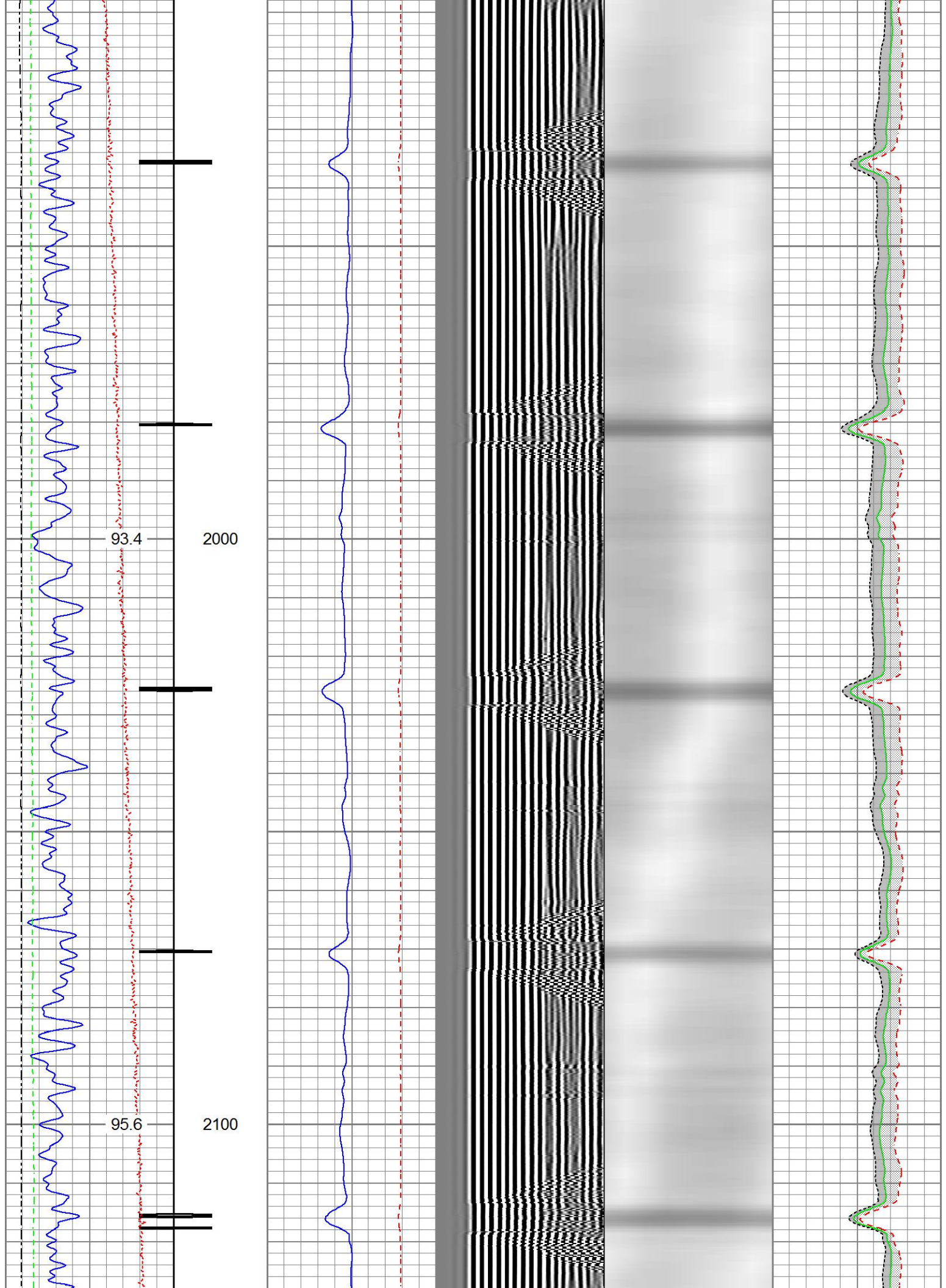


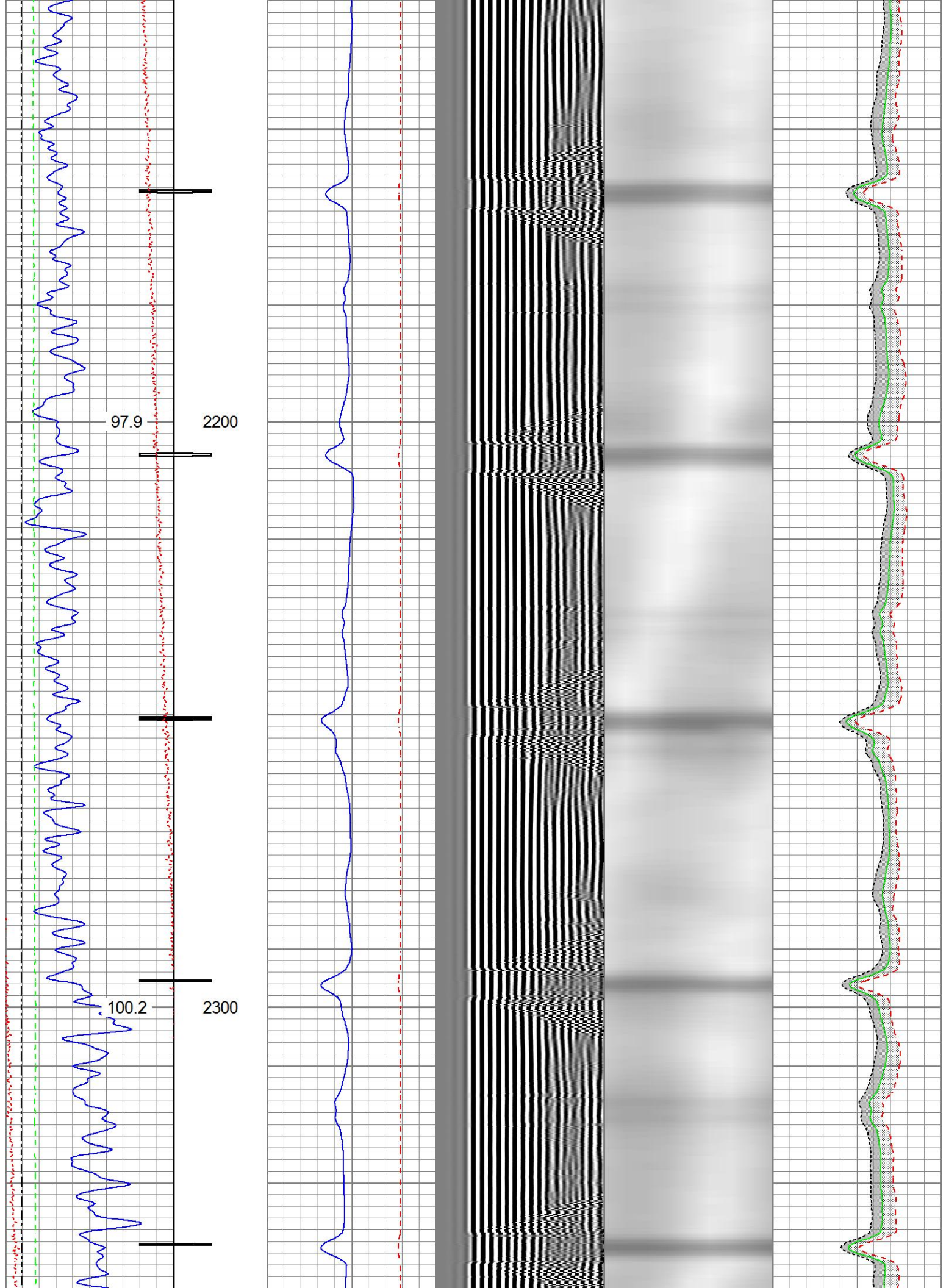


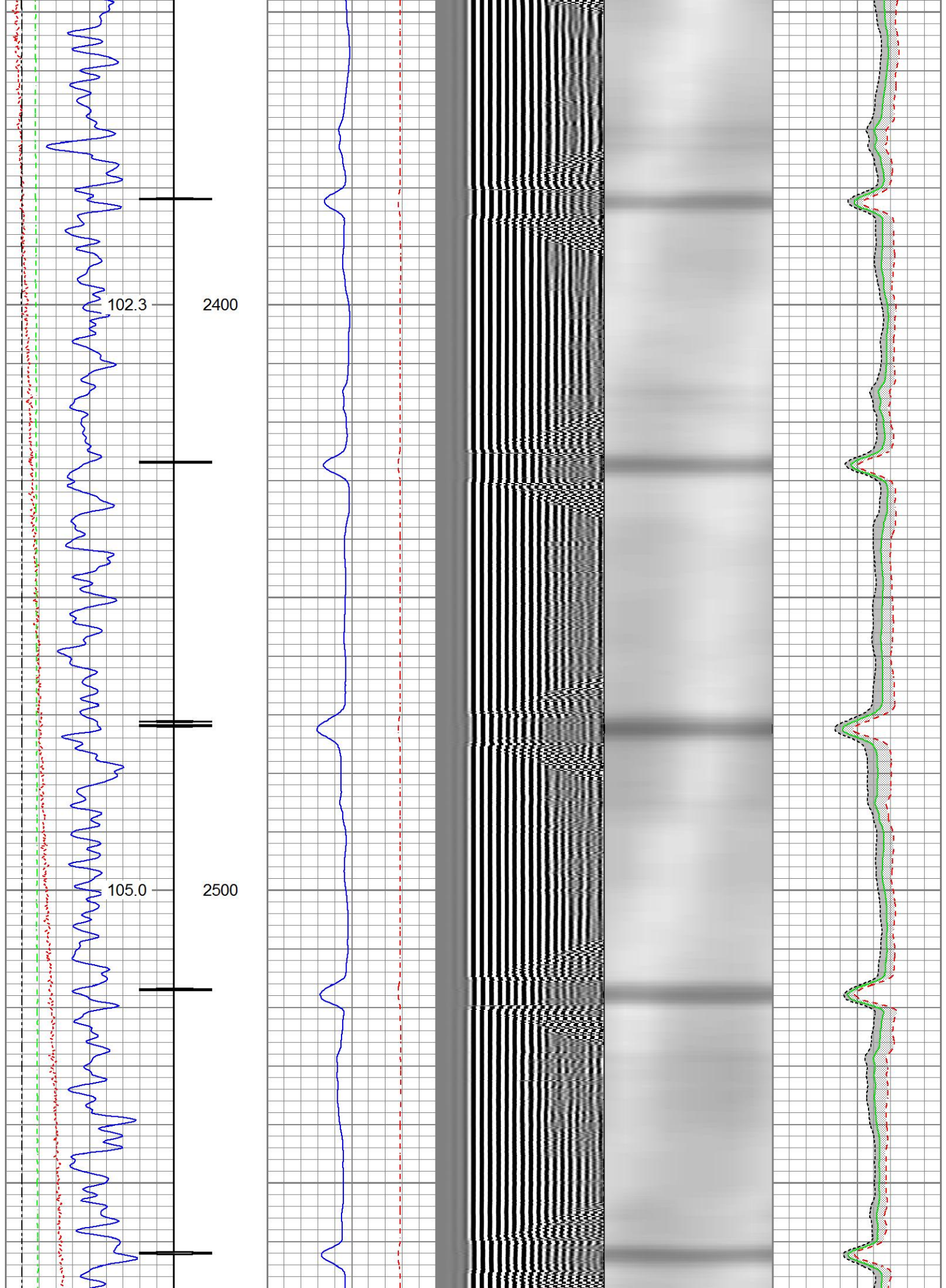


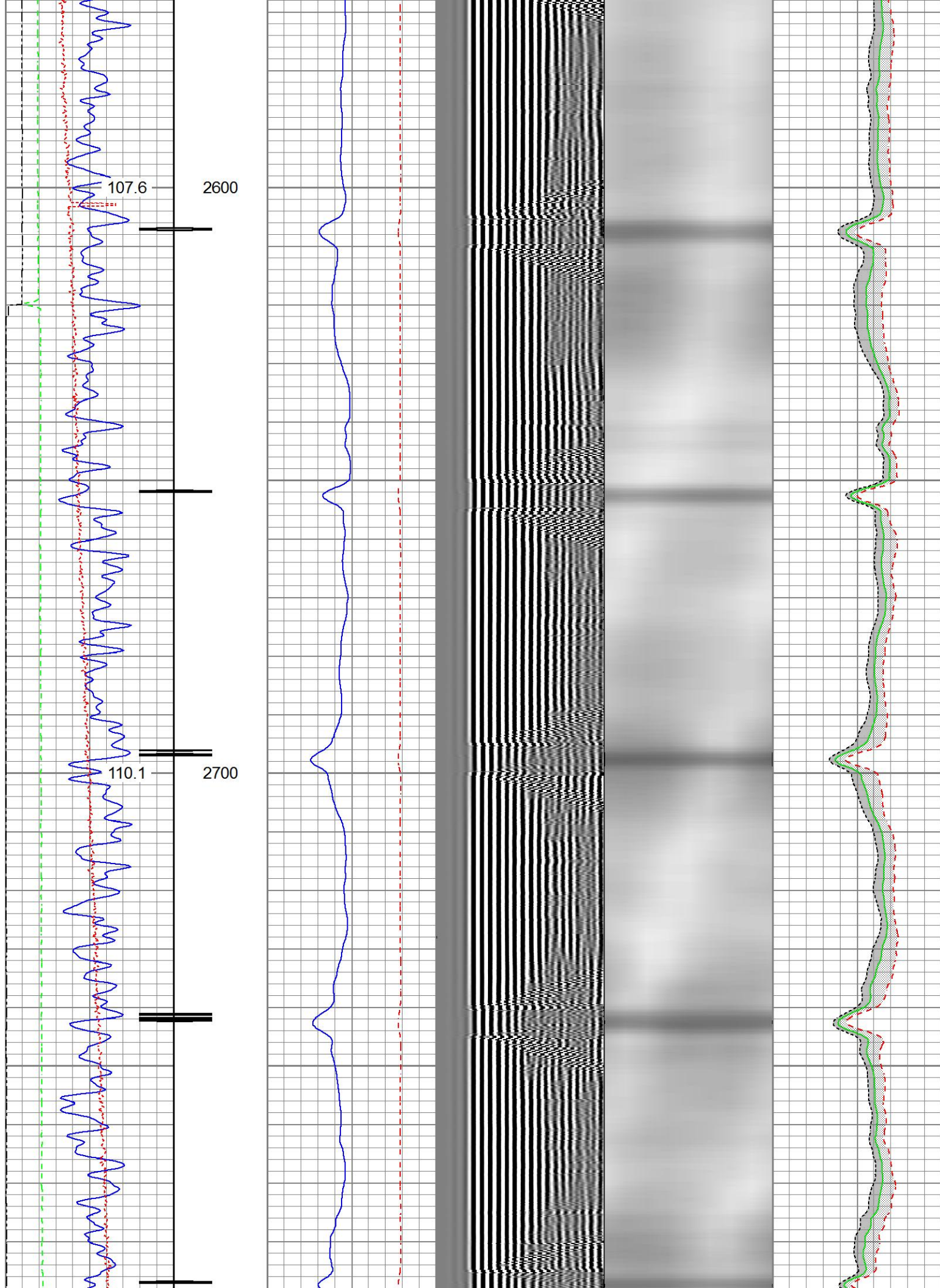


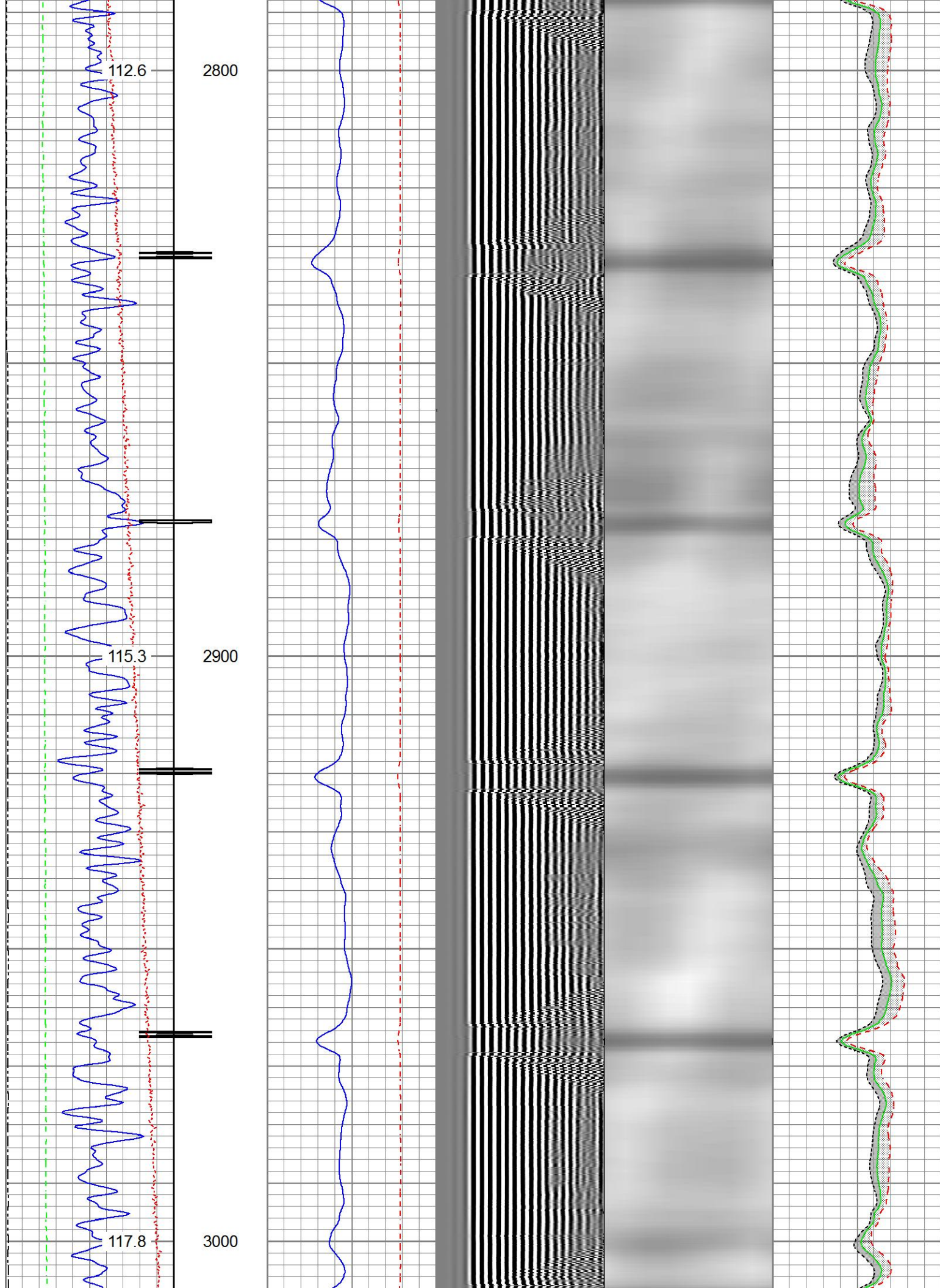


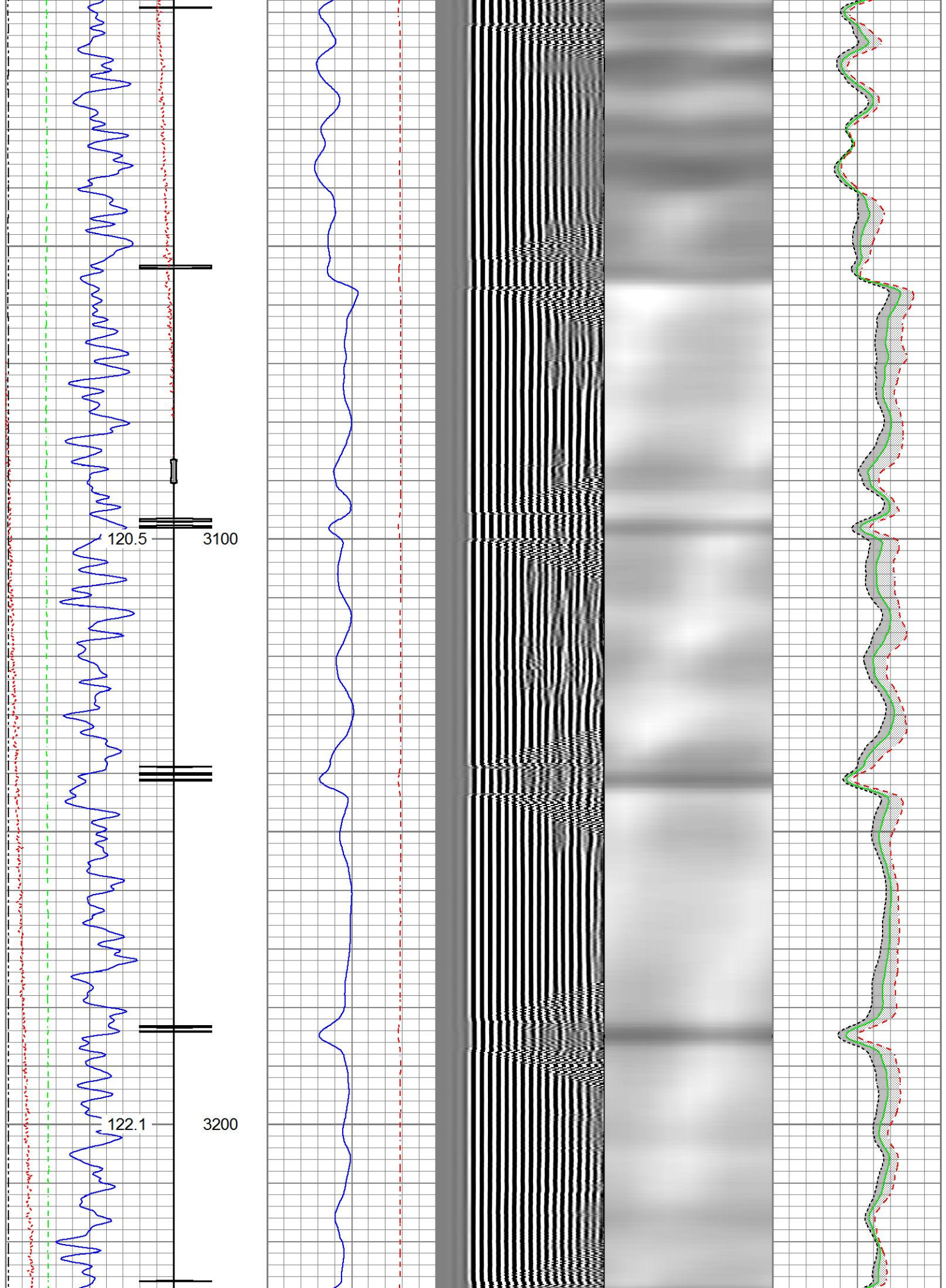


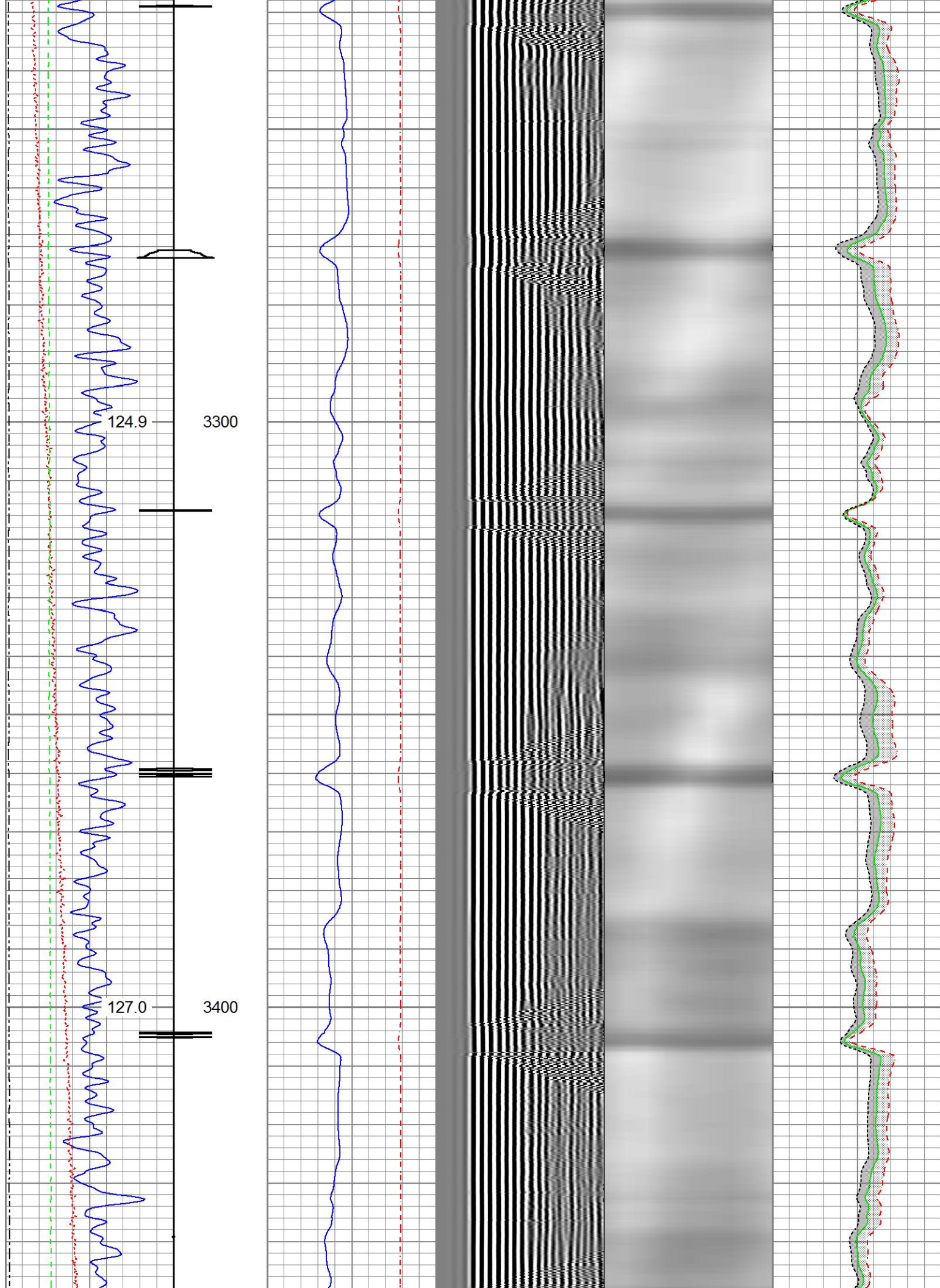


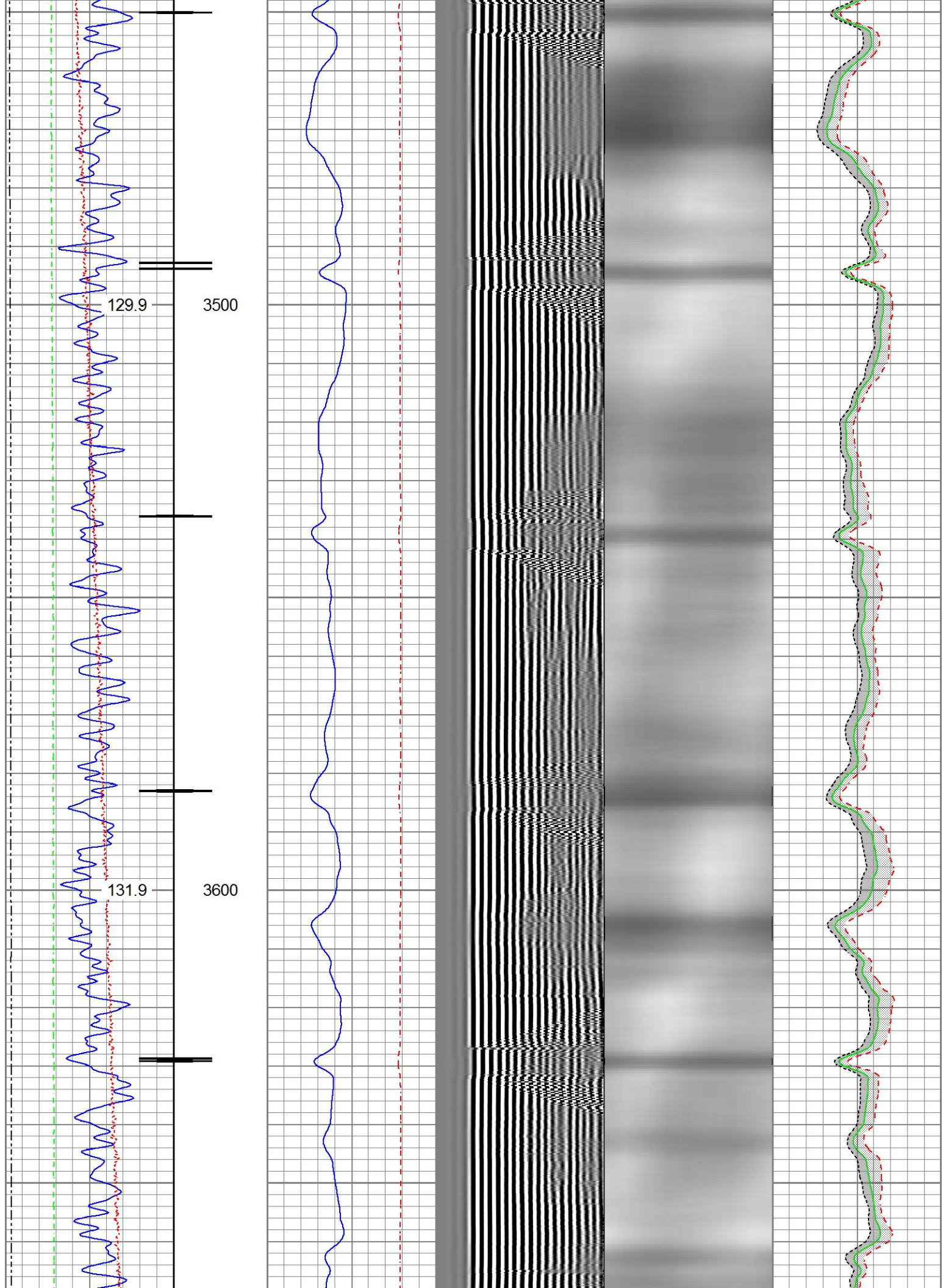


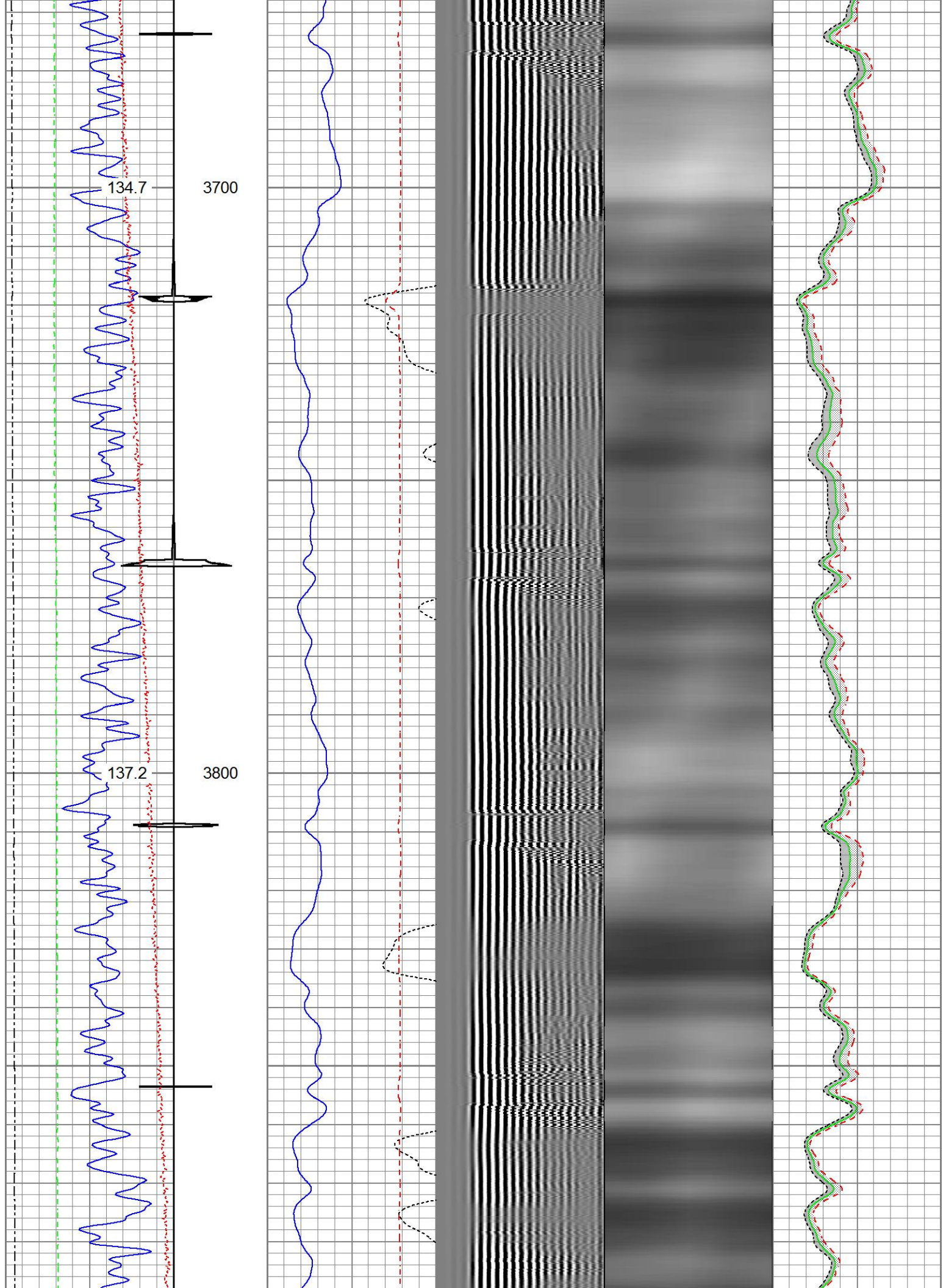


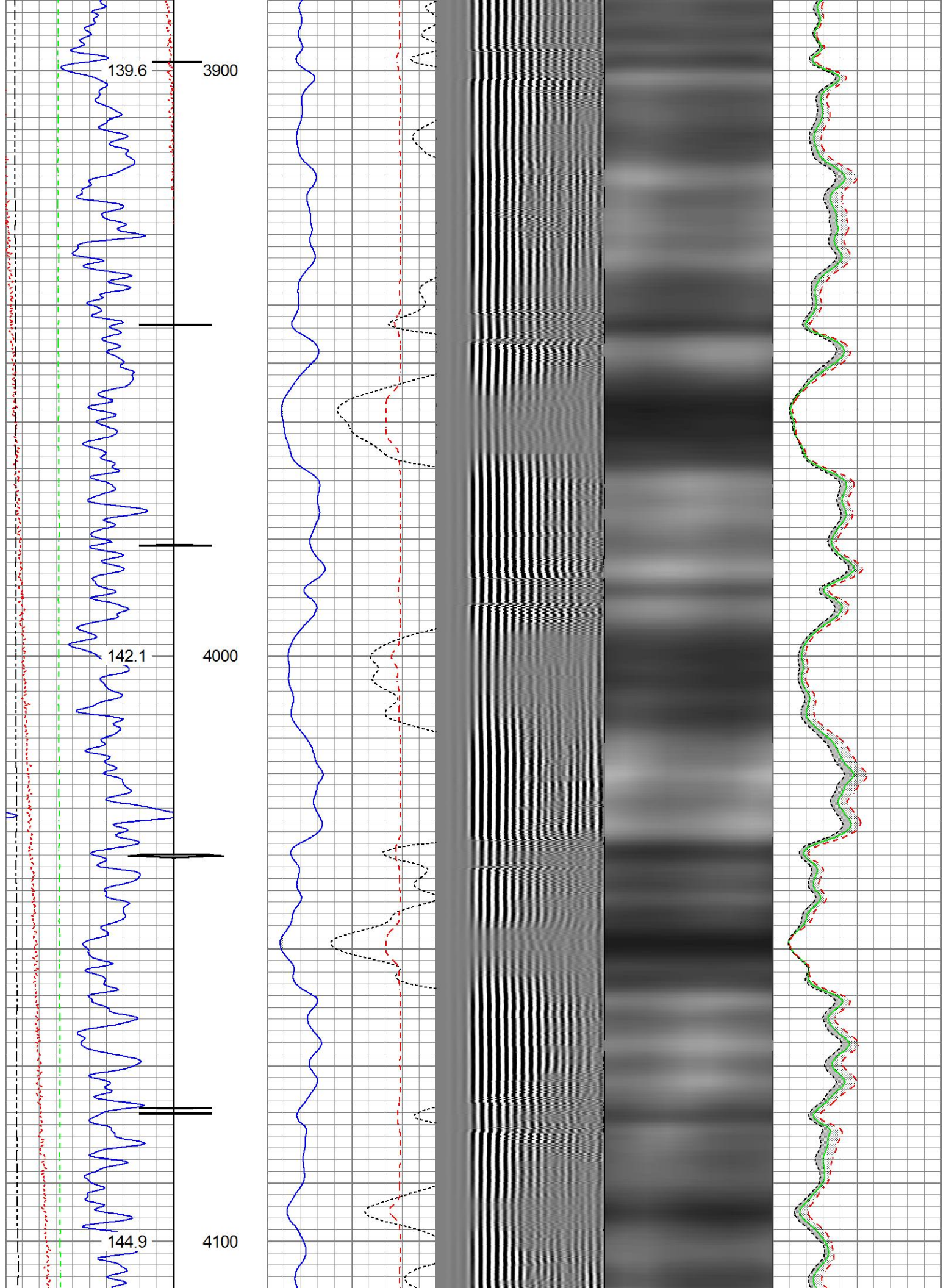


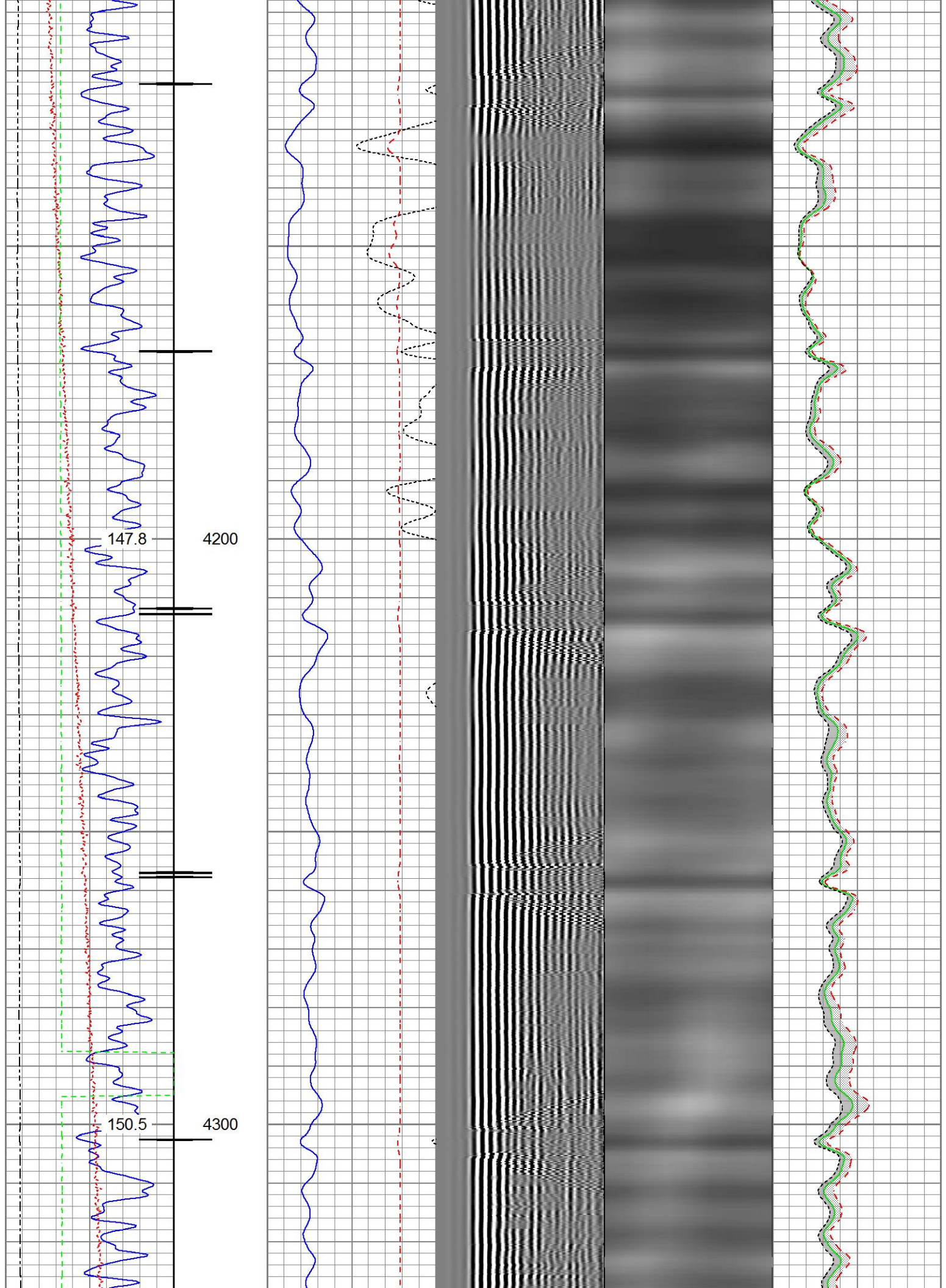


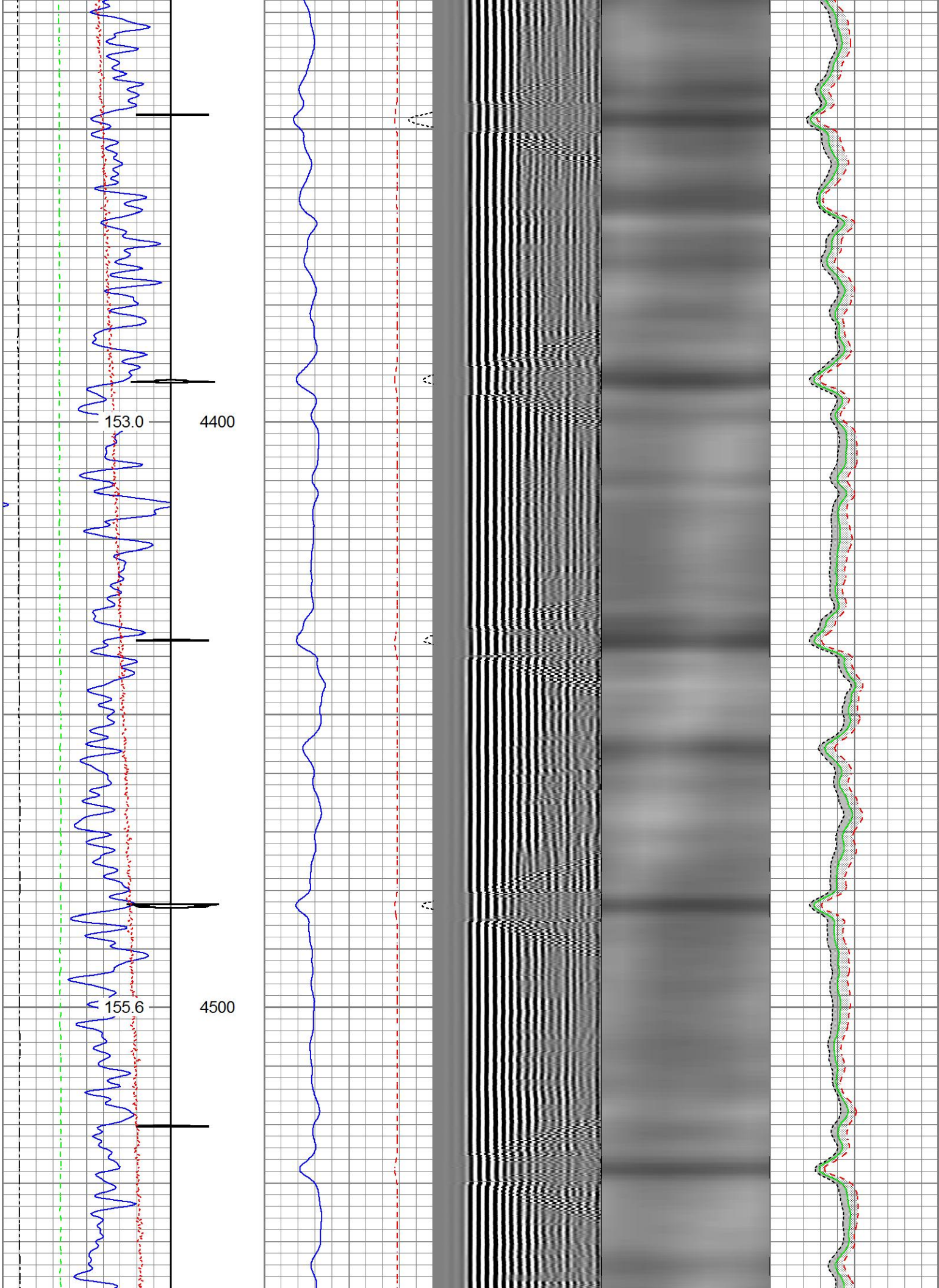


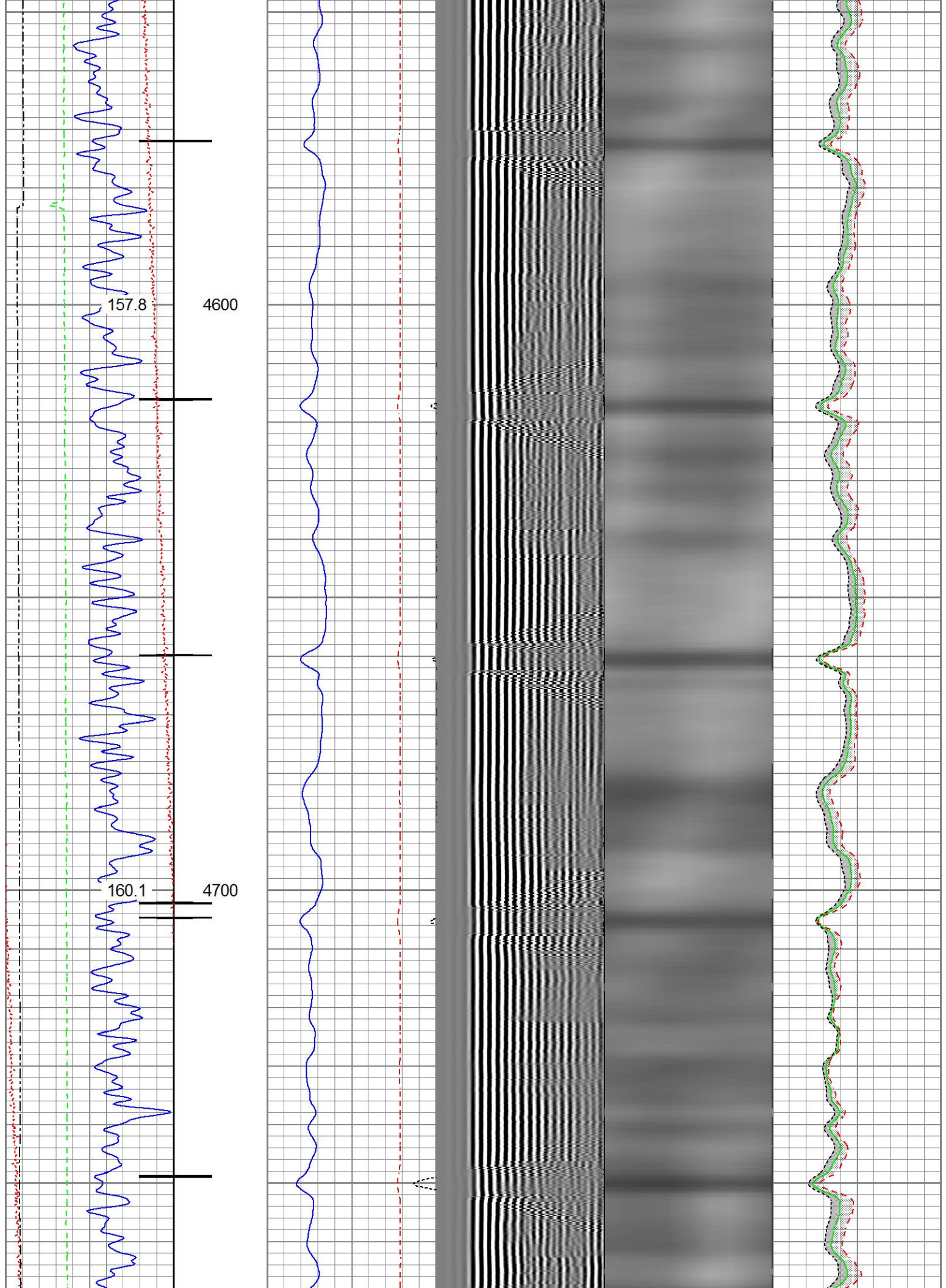


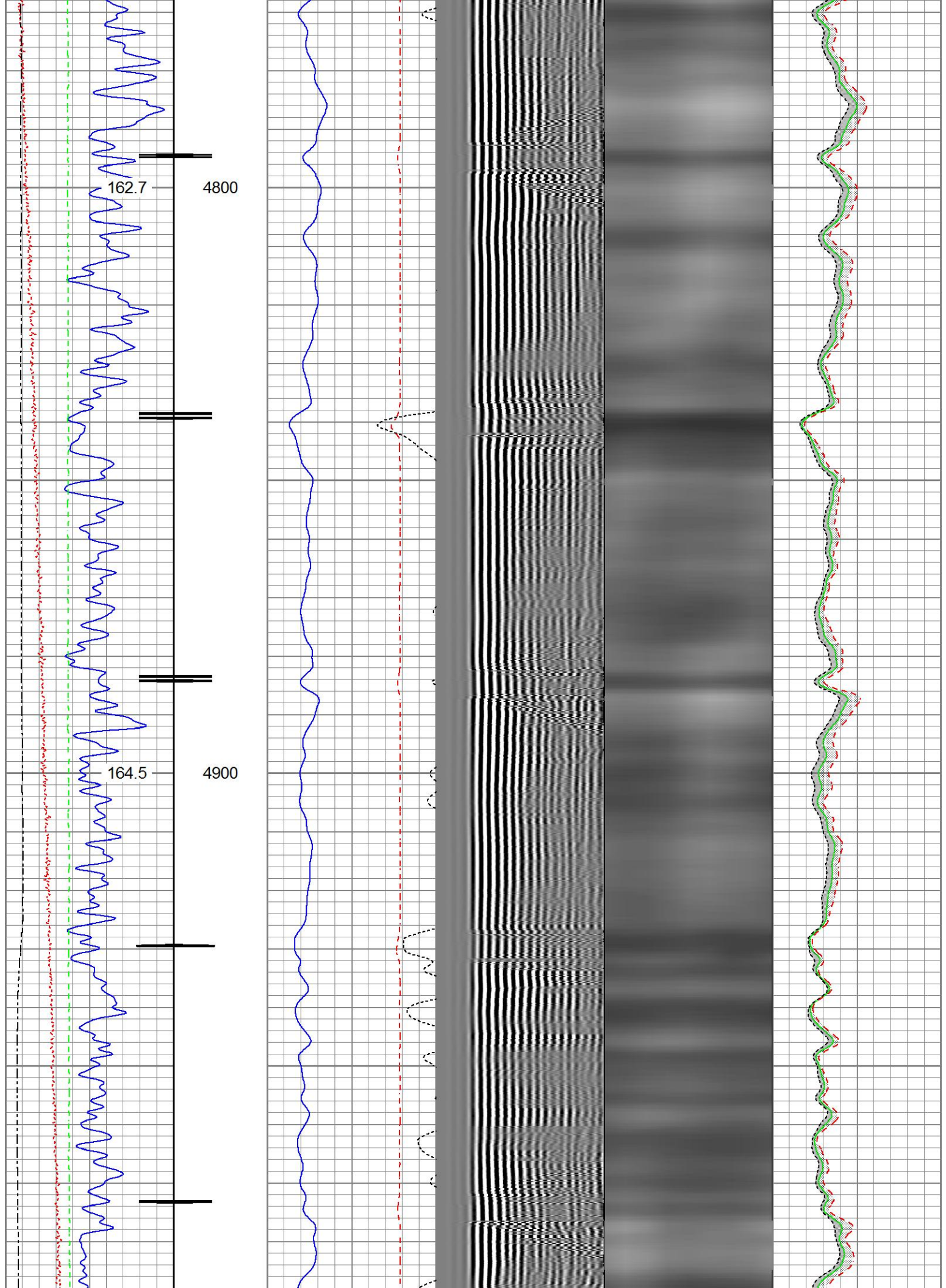


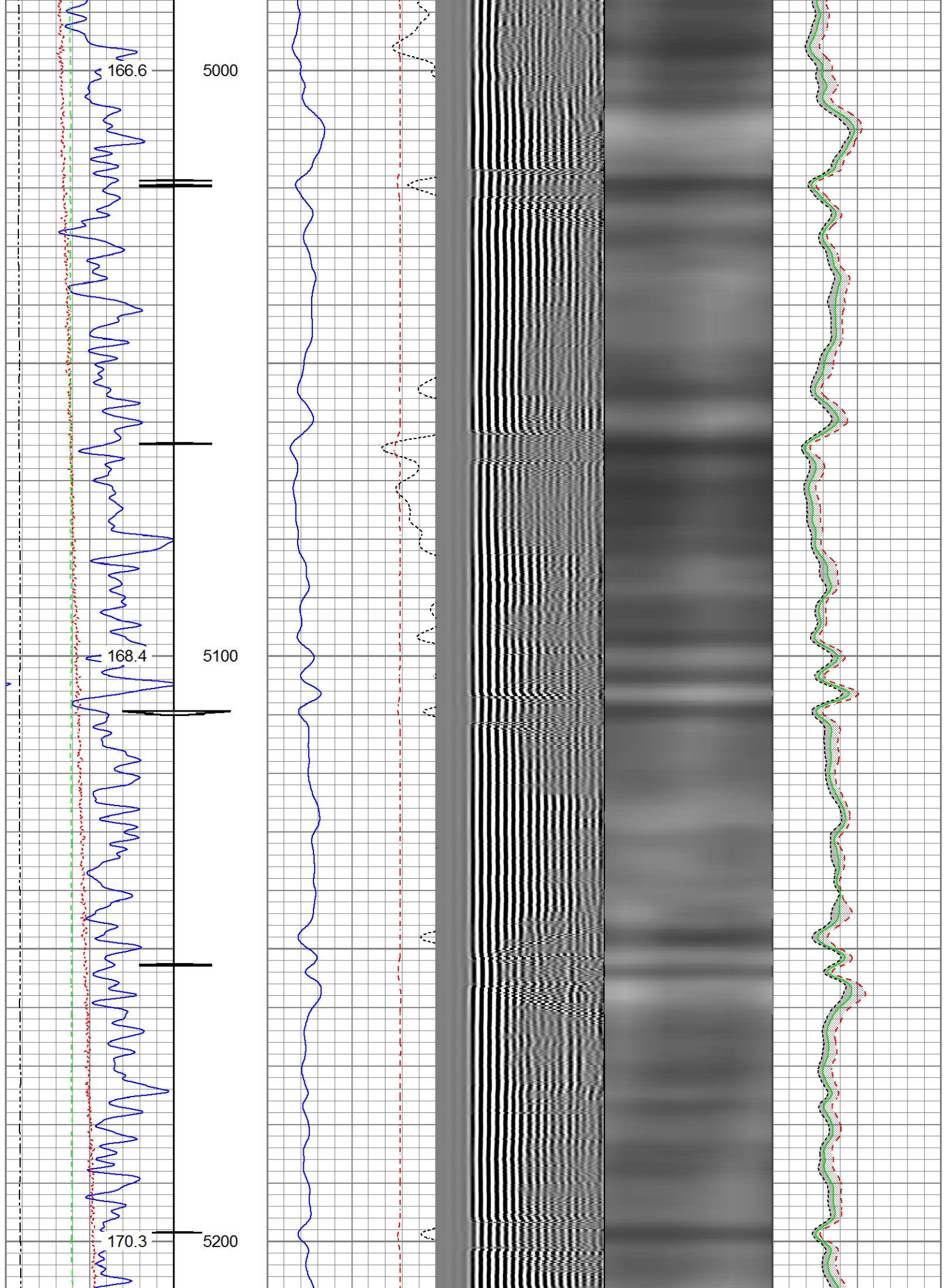


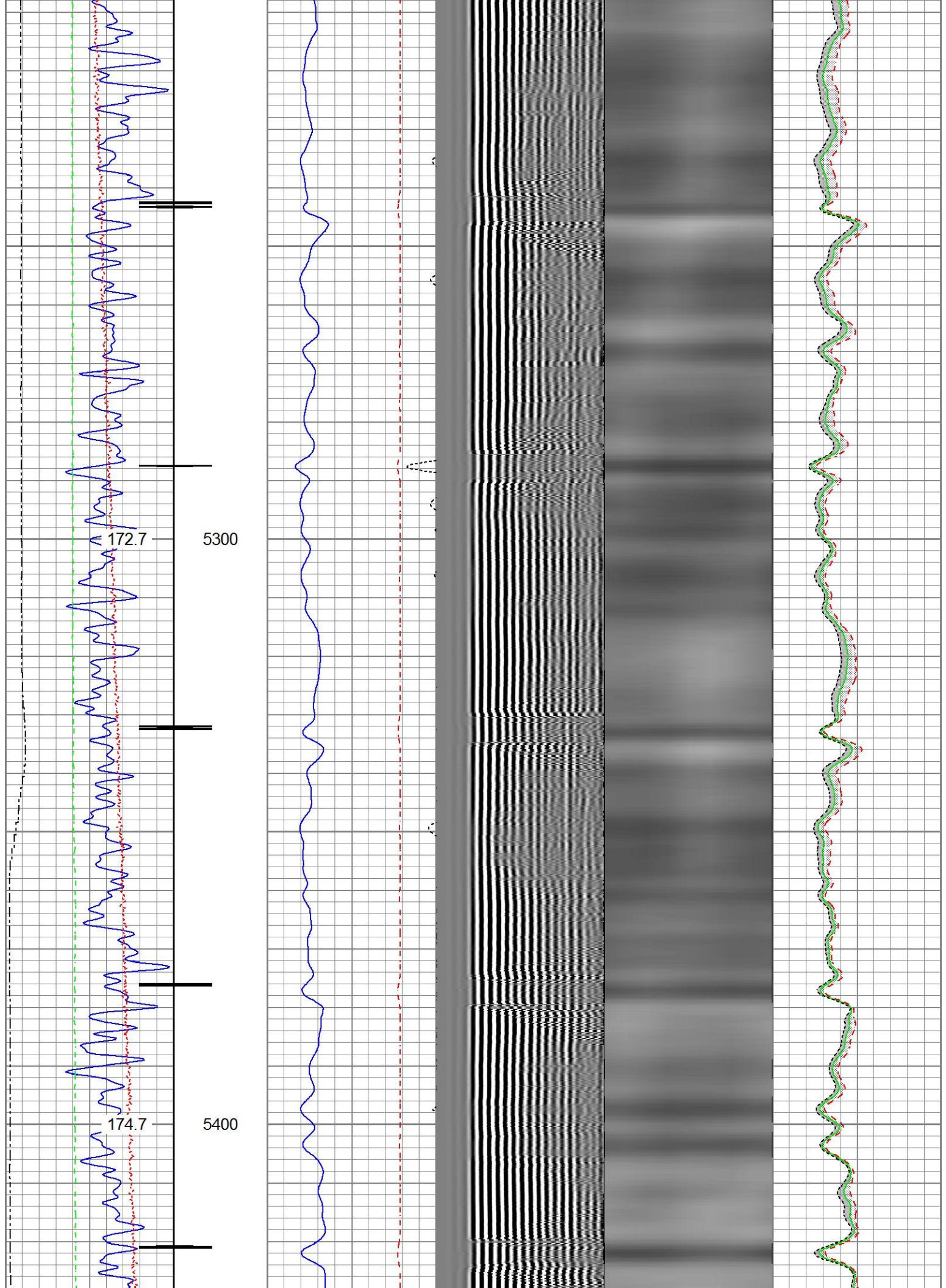


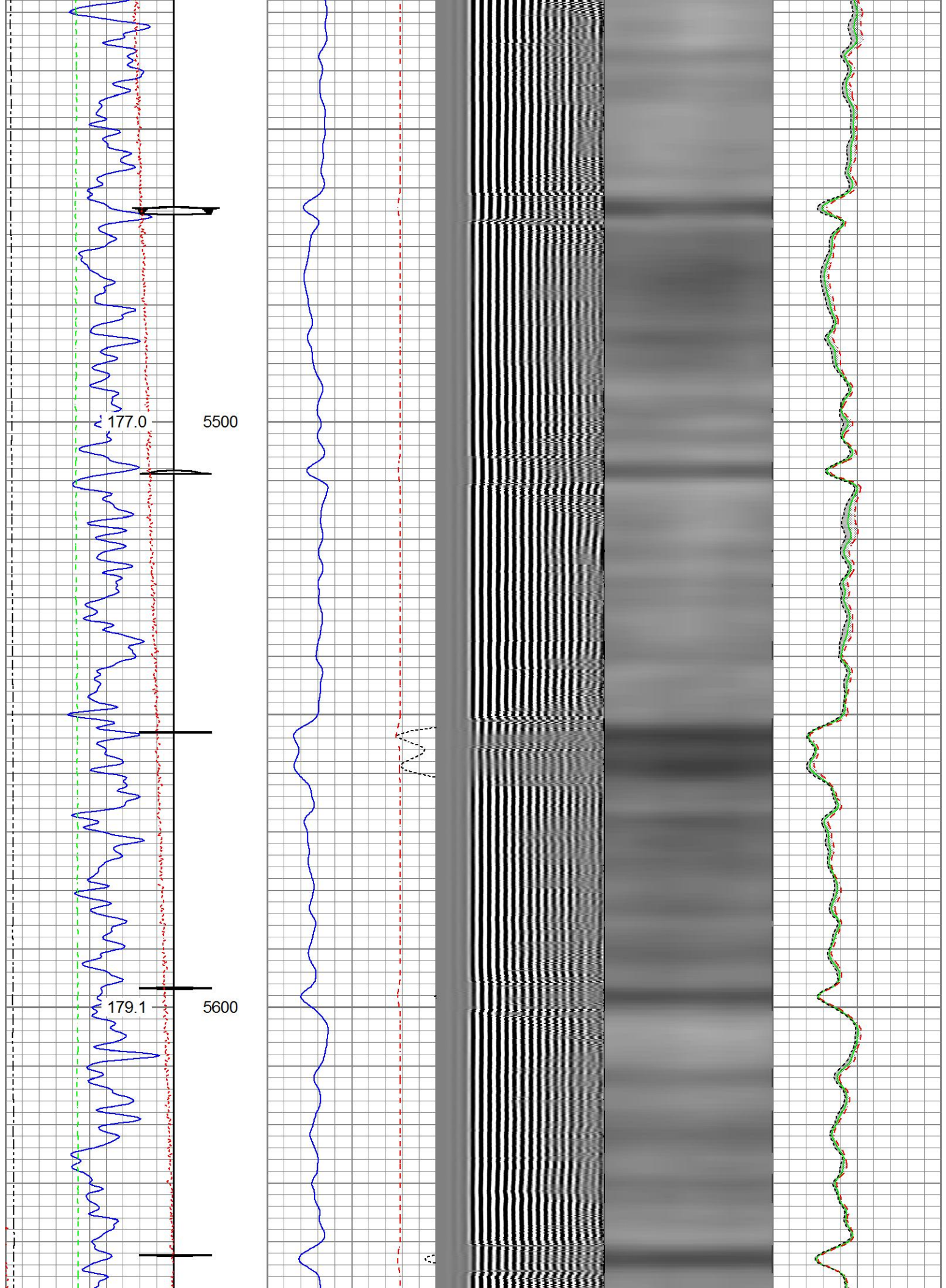


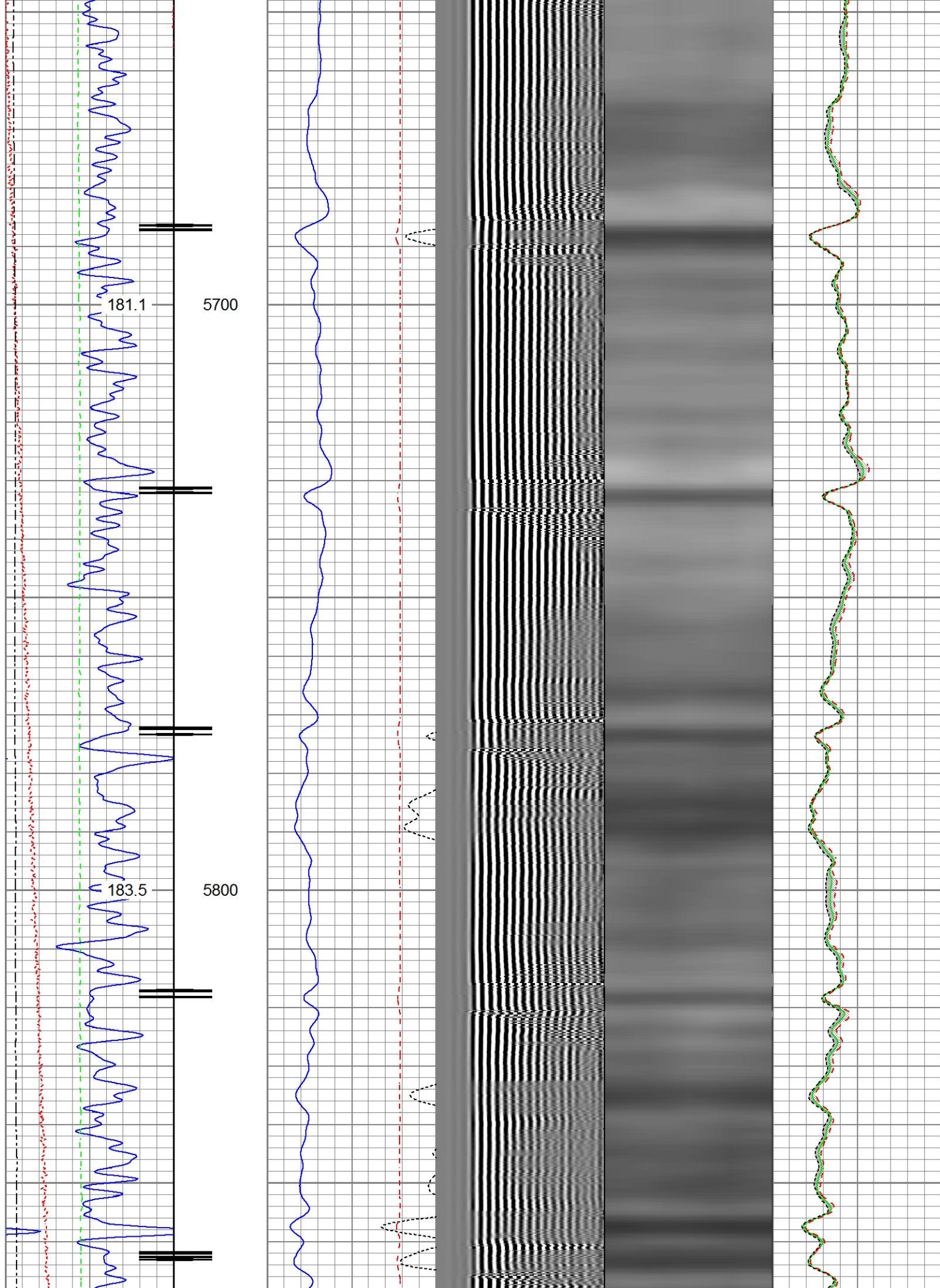


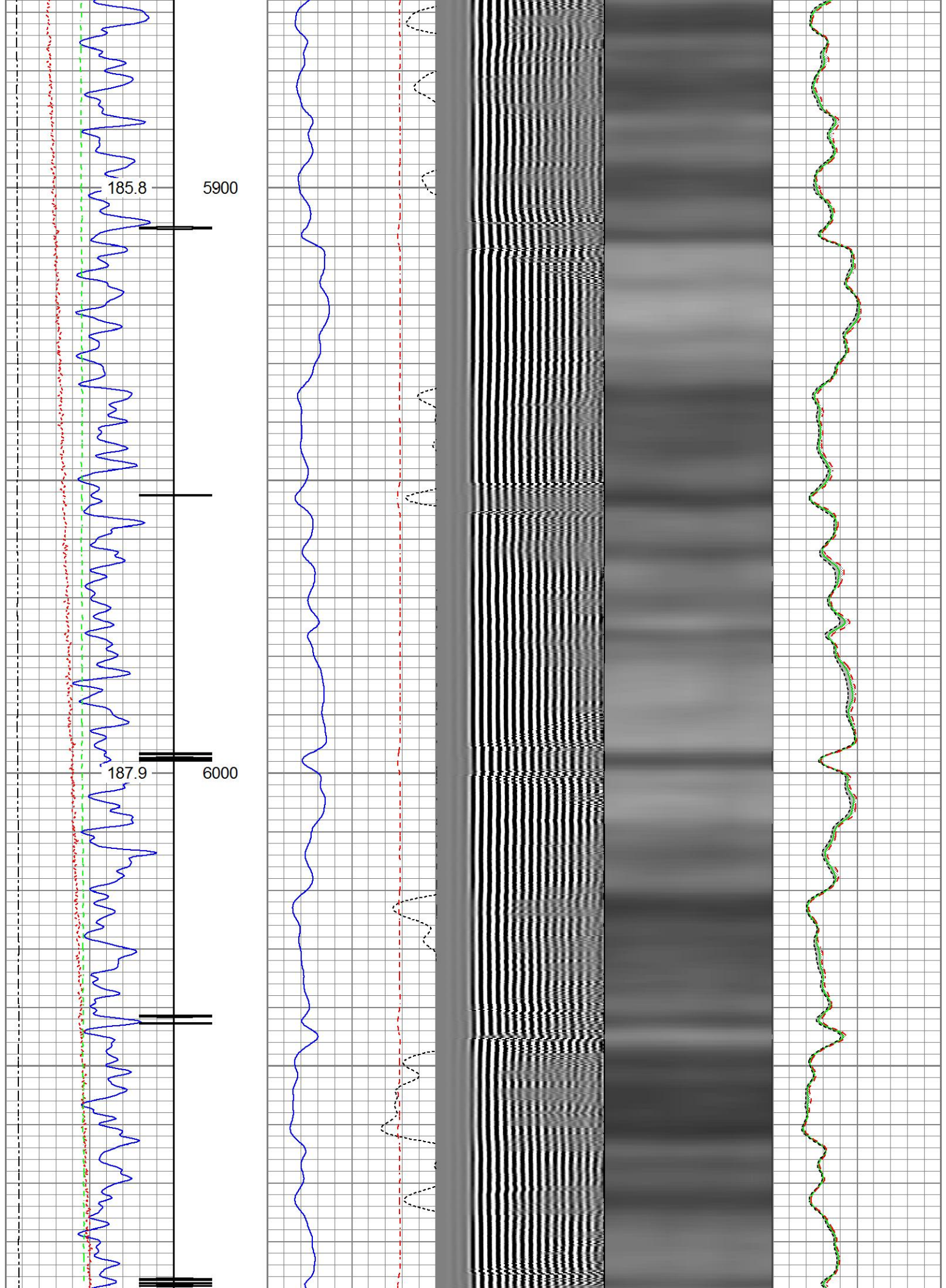


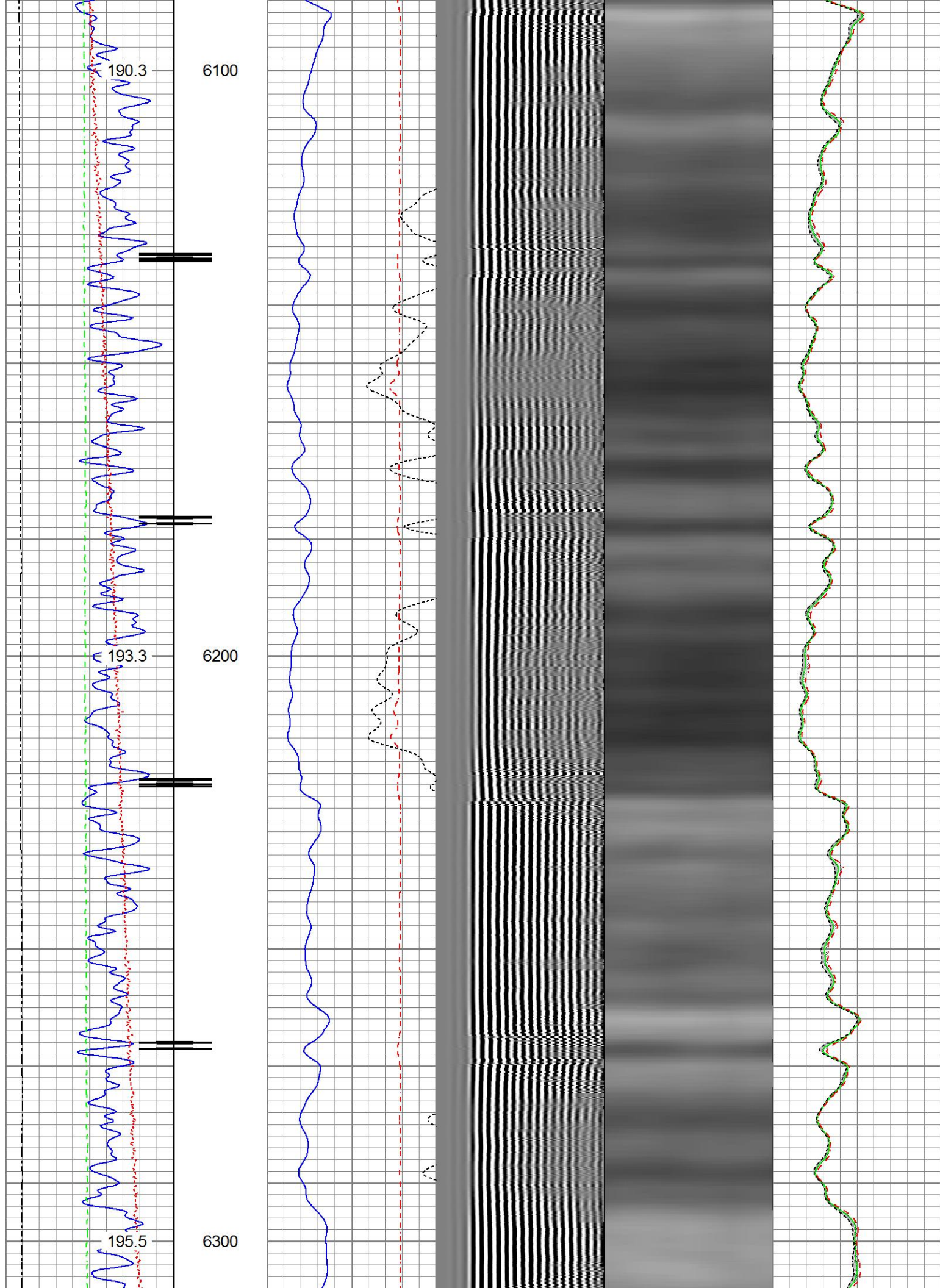


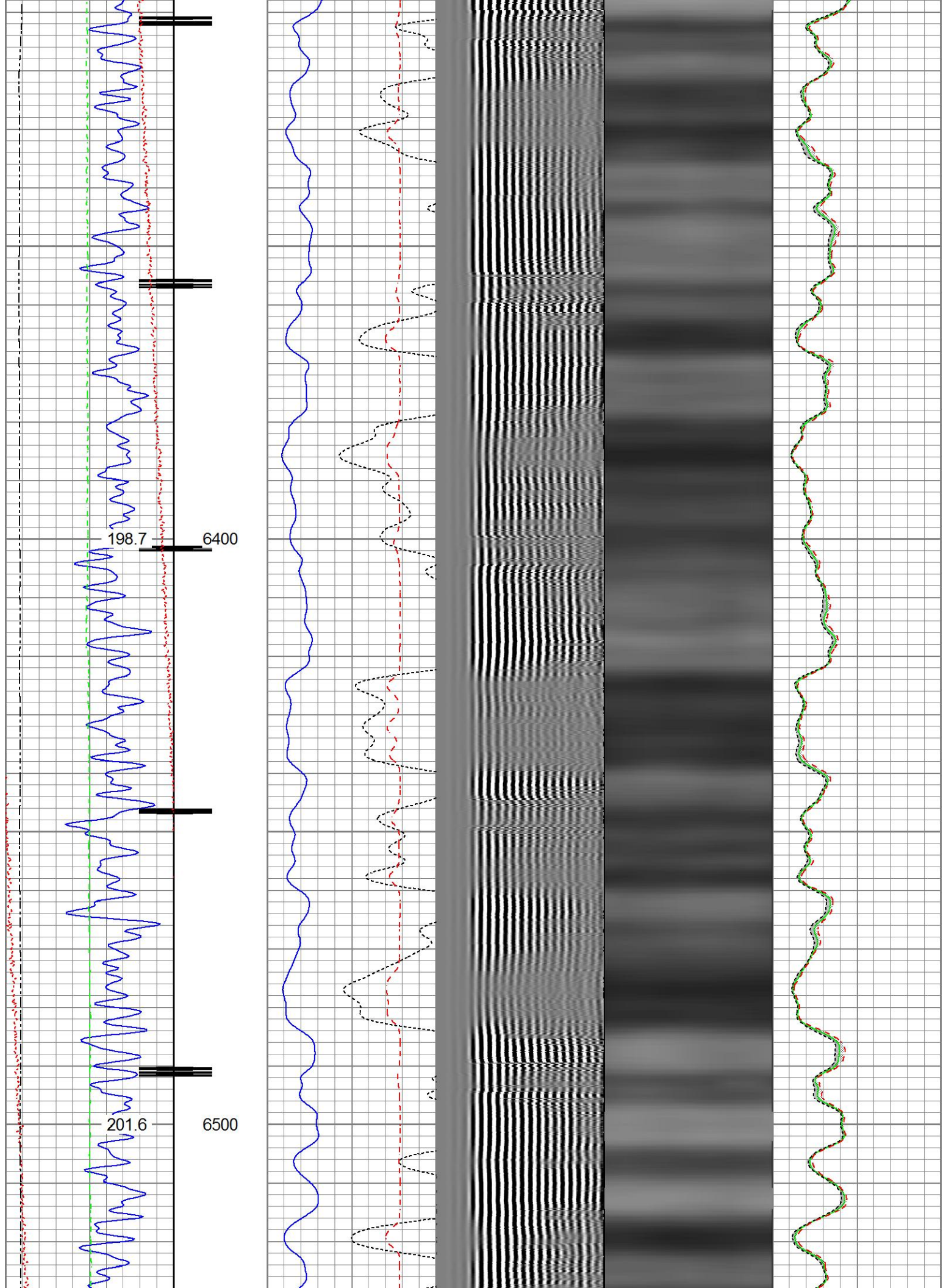


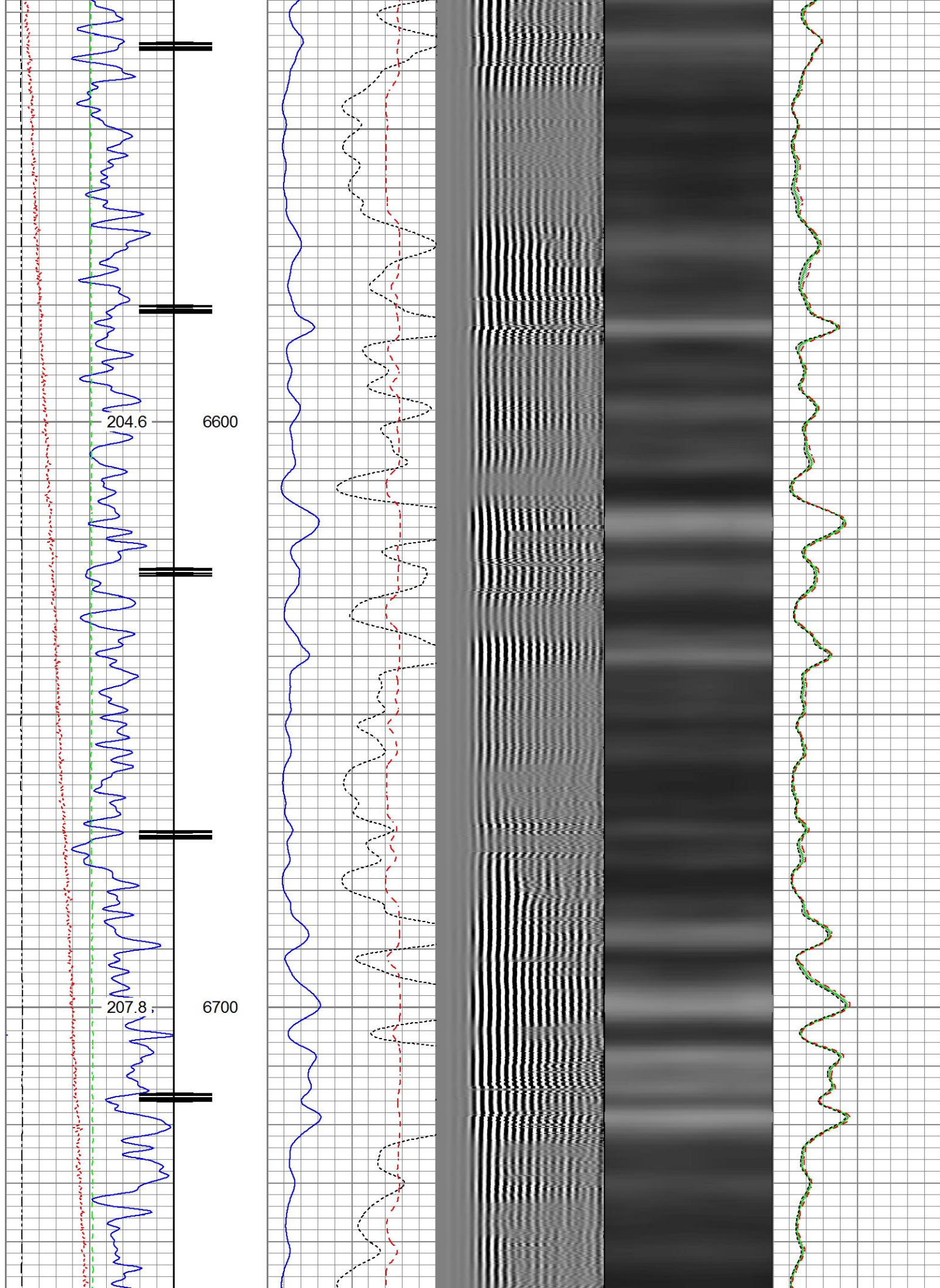


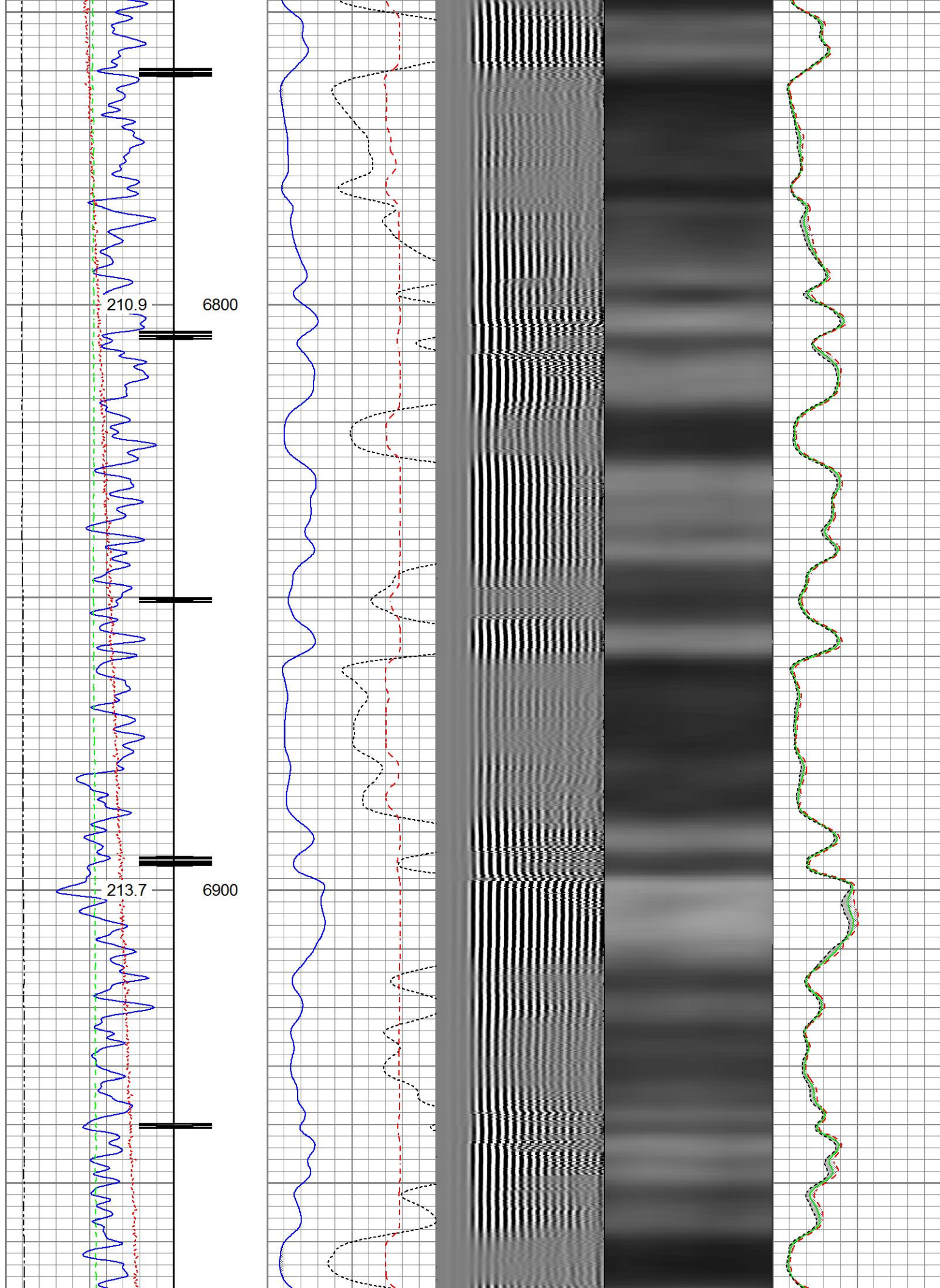


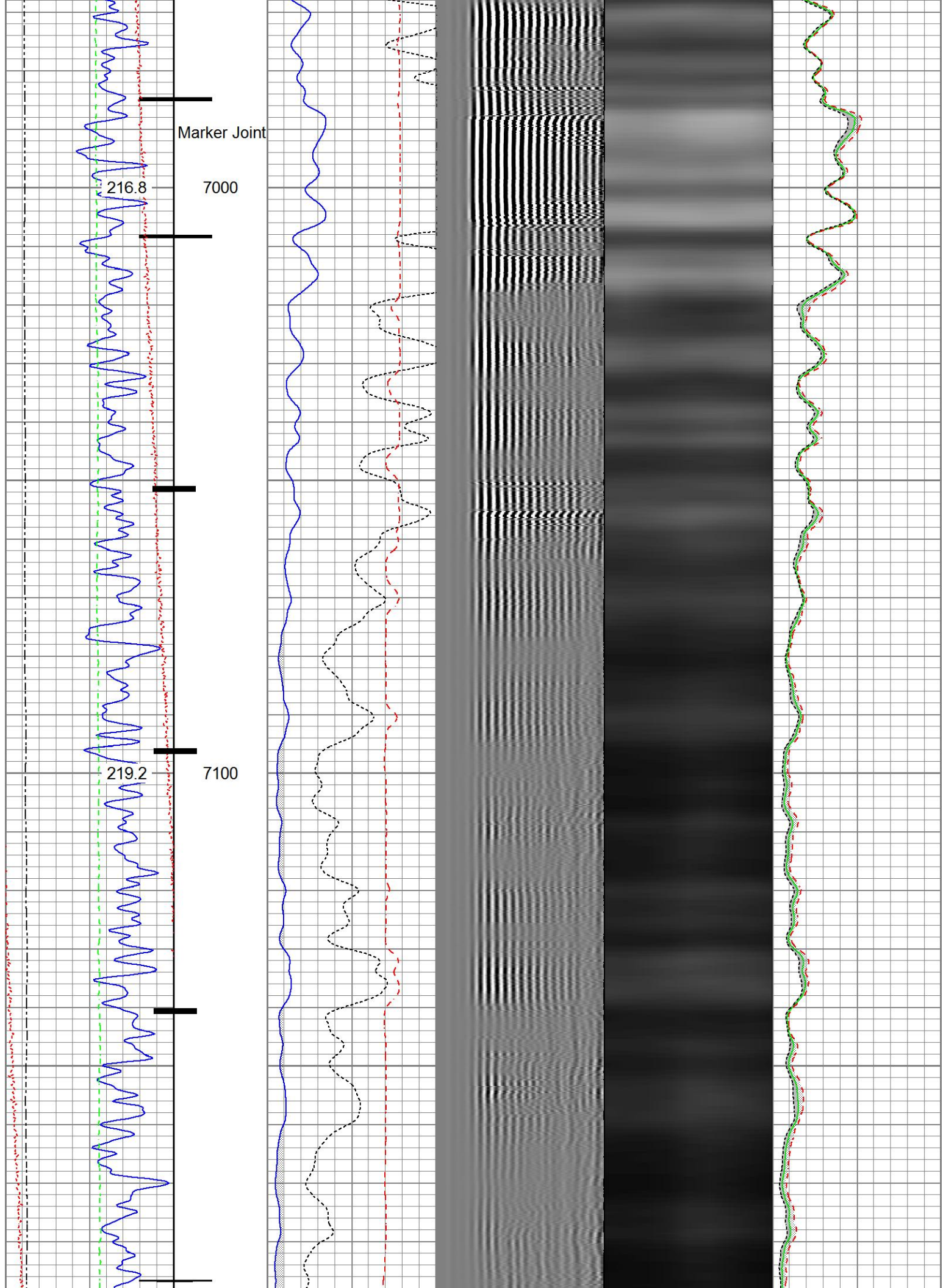


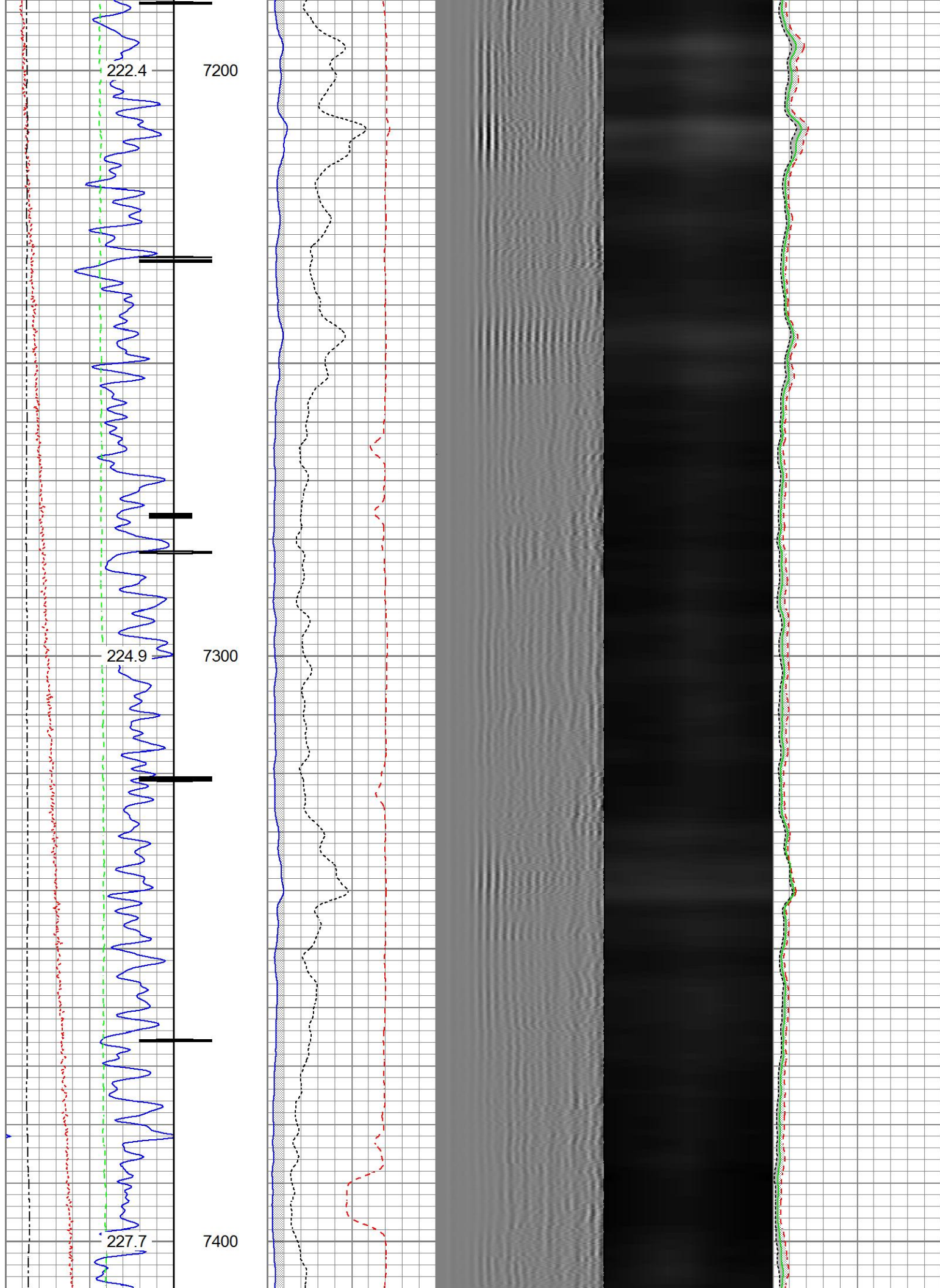


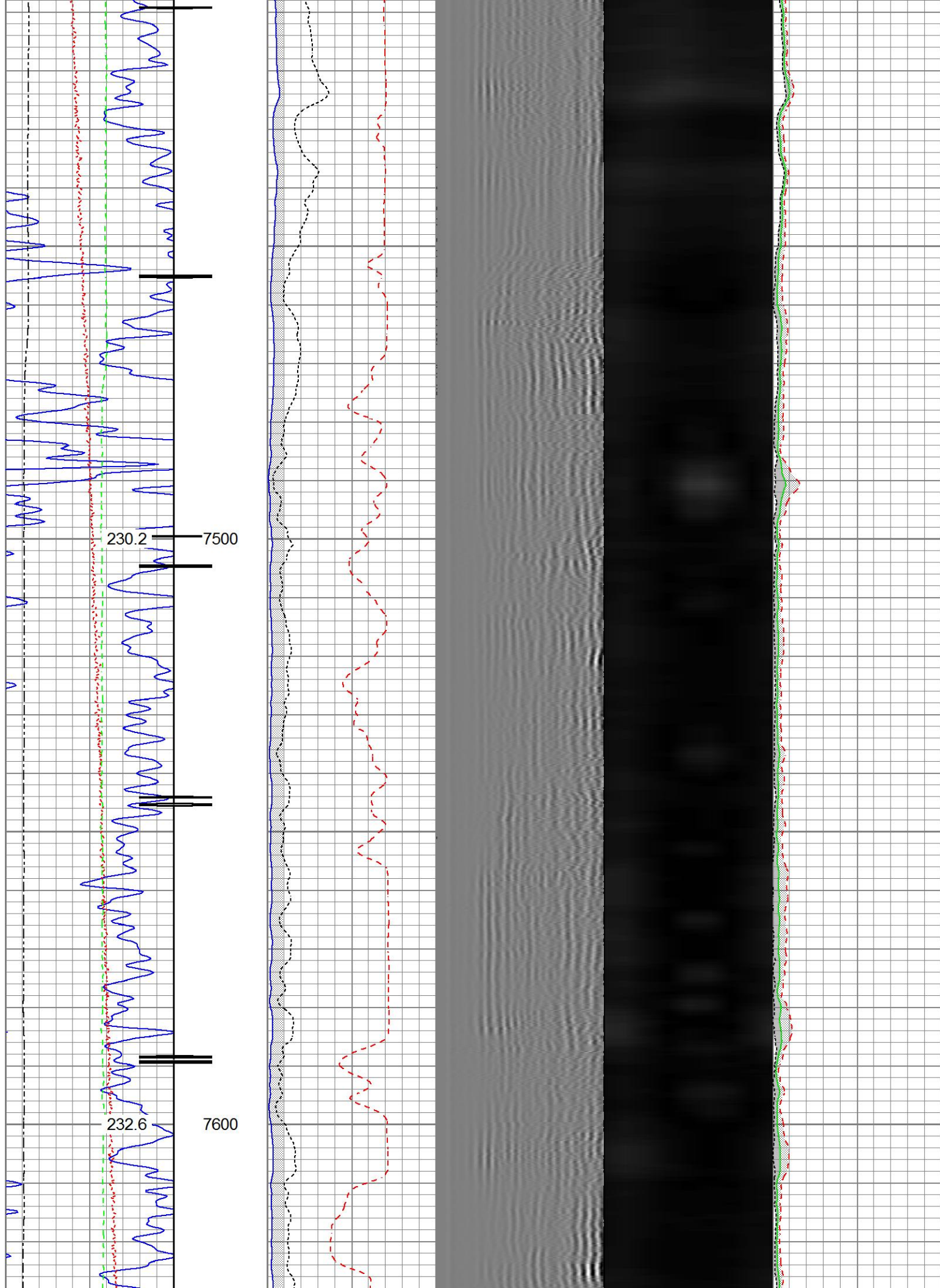


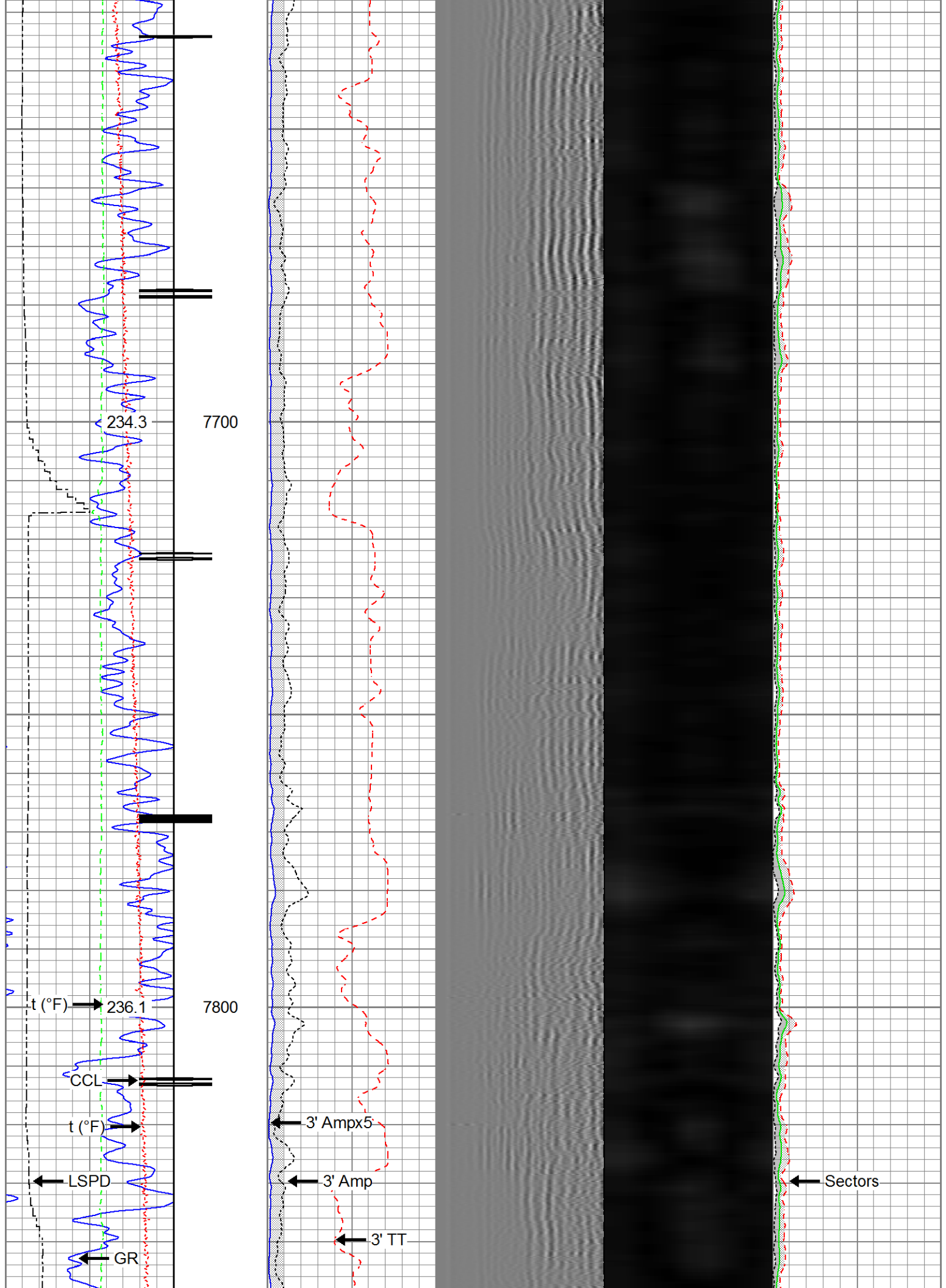


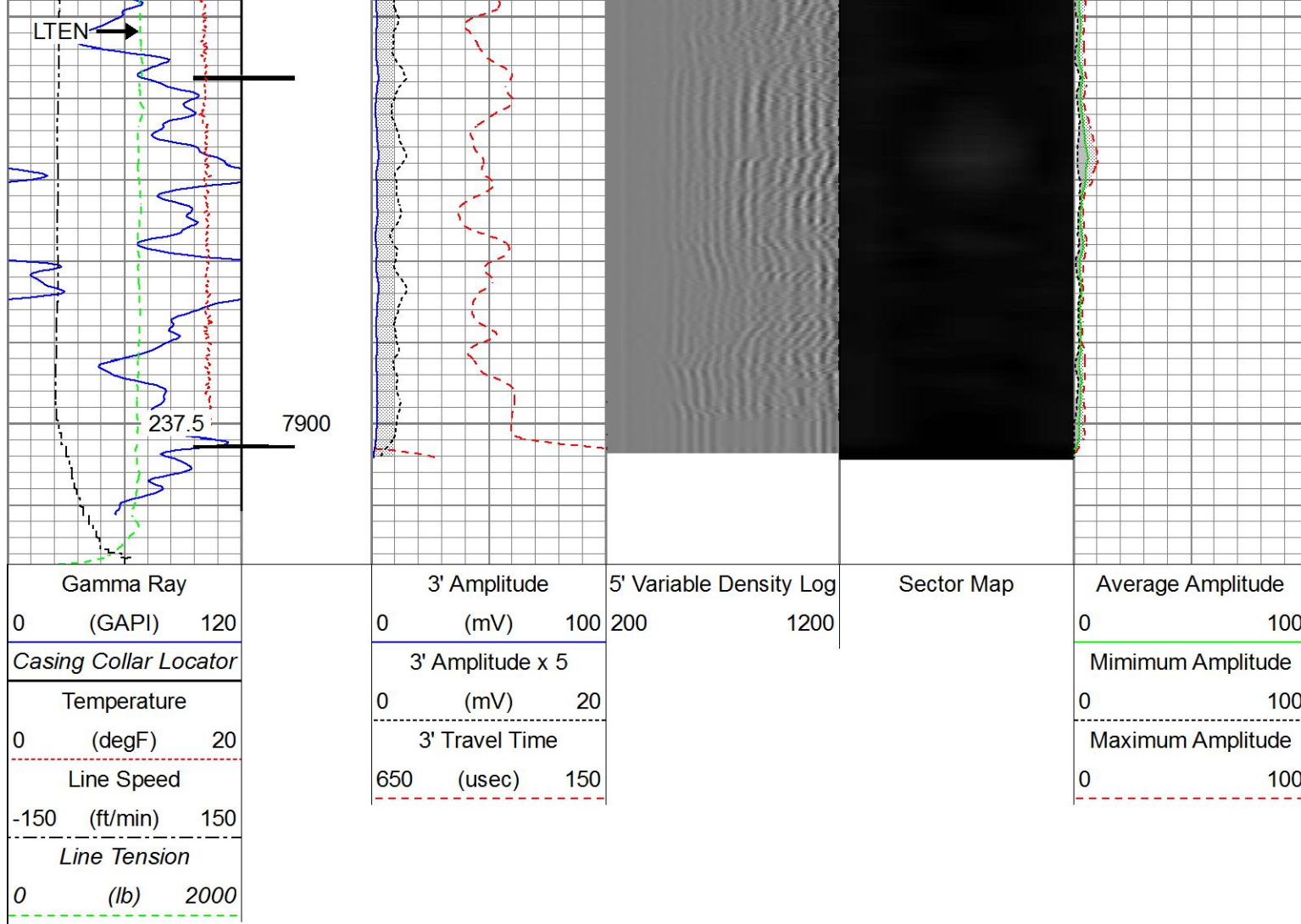








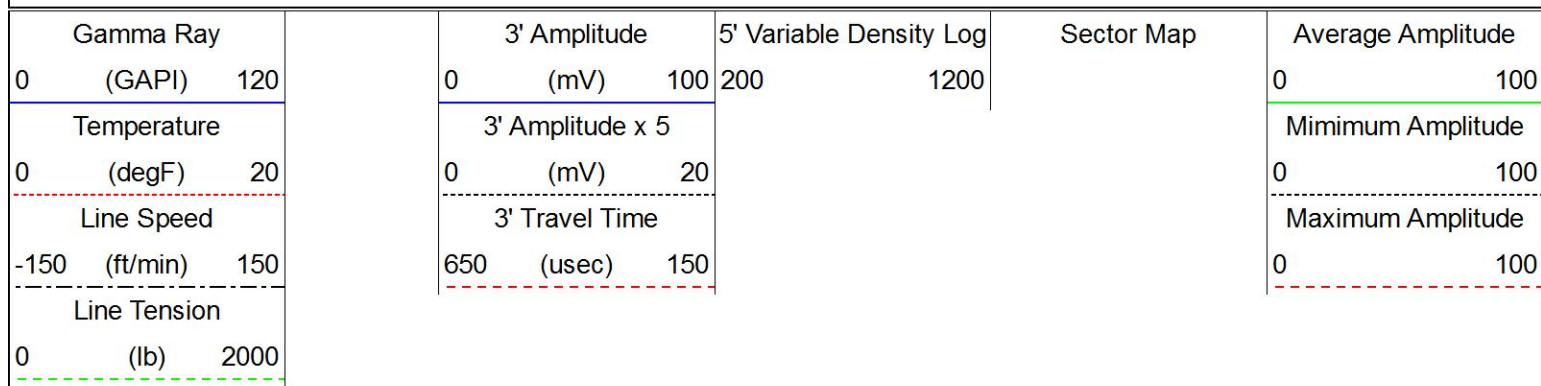




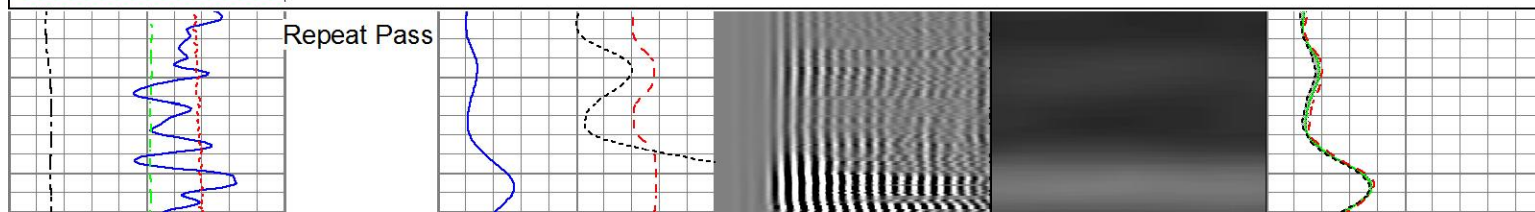
Repeat Pass

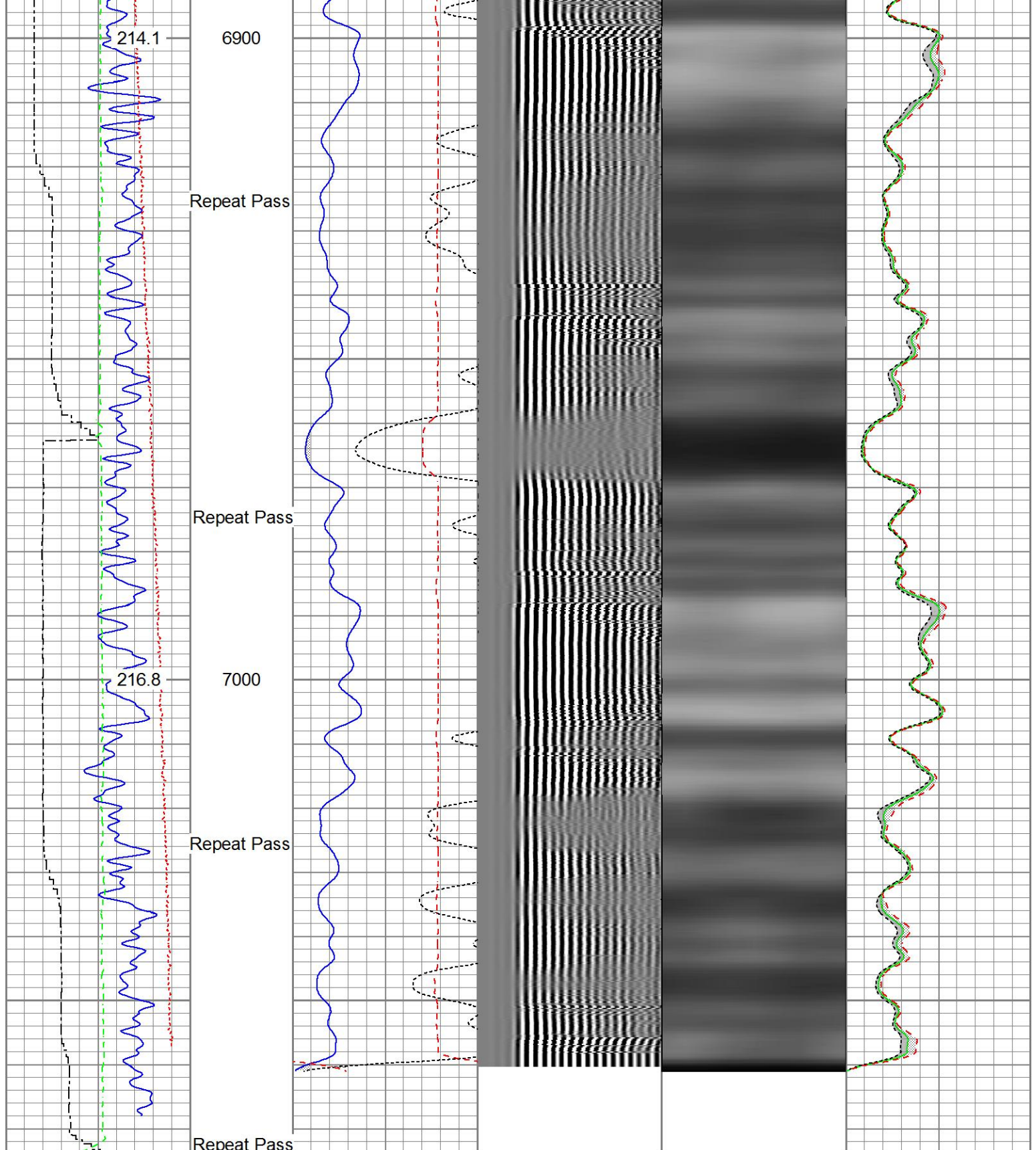
Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarho_puma fed 4c-14hz\0512342568_anadarko_puma fed 4c-14hz_05-13-17_rbl.db
 Dataset Pathname: pass2
 Presentation Format: ros_radri
 Dataset Creation: Sat May 13 10:43:45 2017
 Charted by: Depth in Feet scaled 1:240




Repeat Pass





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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	19.54		Titan_Electric_Cable_Heads-Titan_1-11/161.03 Electric Cable Head with 1" Fishing Neck	1.69	1.69	5.40
			Probe_ELine_BowSpring_Centralizer-P-EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
Temp	16.75		Probe_RADII-C-P_RBT_2750 (FW1302-009.19) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	2.75	2.75	105.00
WVFS8	14.58					
WVFS7	14.58					
WVFS6	14.58					
WVFS5	14.58					
WVFS4	14.58					
WVFS3	14.58					
WVFS2	14.58					
WVFS1	14.58					
WVFCAL	14.58					
WVF3FT	14.58					
WVF5FT	13.58					
HEADVOLT	10.33					
DCCL CCL	6.51 6.51		Probe_ELine_BowSpring_Centralizer-P-EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.75	2.75	20.00
	GR		3.77	Probe_GR_CCL-P_CGR_2750_S (FW1214.573) Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.75	2.75
Probe_ELine_BowSpring_Centralizer-P-EE2.88.275 Probe 2-3/4" Electric Inline Bowspring Centralizer		2.75		2.75	20.00	

Dataset: 0512342568_Anadarko_Puma Fed 4C-14HZ_05-13-17_RBL.db: field/well/run1/pass4
 Total length: 23.43 ft
 Total weight: 225.40 lb

Calibration Report

Database File c:\programdata\warrior\data\anadarho_puma fed 4c-14hz\0512342568_anadarko_puma fed 4c-14hz_05-13-
 Dataset Pathname pass4
 Dataset Creation Sat May 13 10:53:19 2017

Gamma Ray Calibration Report

Serial Number: FW1212-026
 Tool Model: P_CGR_2750_S
 Performed: Mon Aug 15 10:19:05 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.6 cps

Sensitivity: 0.6000 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: 45.102 ft

Master Calibration, performed Sat May 13 09:52:36 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.810	0.800	71.921	87.968	0.690
CAL	0.002	0.821				
5'	0.000	0.746	0.800	71.921	95.337	0.764
SUM						
S1	0.001	0.800	0.000	100.000	125.013	-0.070
S2	0.001	0.805	0.000	100.000	124.323	-0.070
S3	0.002	0.803	0.000	100.000	124.895	-0.247
S4	0.001	0.800	0.000	100.000	125.191	-0.164
S5	0.001	0.801	0.000	100.000	125.010	-0.156
S6	0.001	0.811	0.000	100.000	123.565	-0.158
S7	0.001	0.813	0.000	100.000	123.260	-0.150
S8	0.001	0.814	0.000	100.000	123.108	-0.170

Internal Reference Calibration, performed Wed Aug 03 10:40:08 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.821	1.000	0.000

Air Zero Calibration, performed Sat May 13 09:53:02 2017:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.001	0.000	0.000
5'	0.001	0.000	-0.000
SUM			

S1	0.001	0.000	-0.001
S2	0.000	0.000	0.000
S3	0.001	0.000	0.001
S4	0.002	0.000	-0.000
S5	0.001	0.000	-0.000
S6	0.001	0.000	-0.000
S7	0.001	0.000	0.000
S8	0.001	0.000	0.000



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Puma Fed 4C-14HZ
Field	Wattenberg
County	Weld
State	Colorado