

County Weld State Colorado

G.L. 4941

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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 at 20 FT
Adjusted -1 FT to correlate with Kelly Bushing
Gauge Ring/Junk Basket ran to 7812 FT with no debris
Log ran with 2800 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

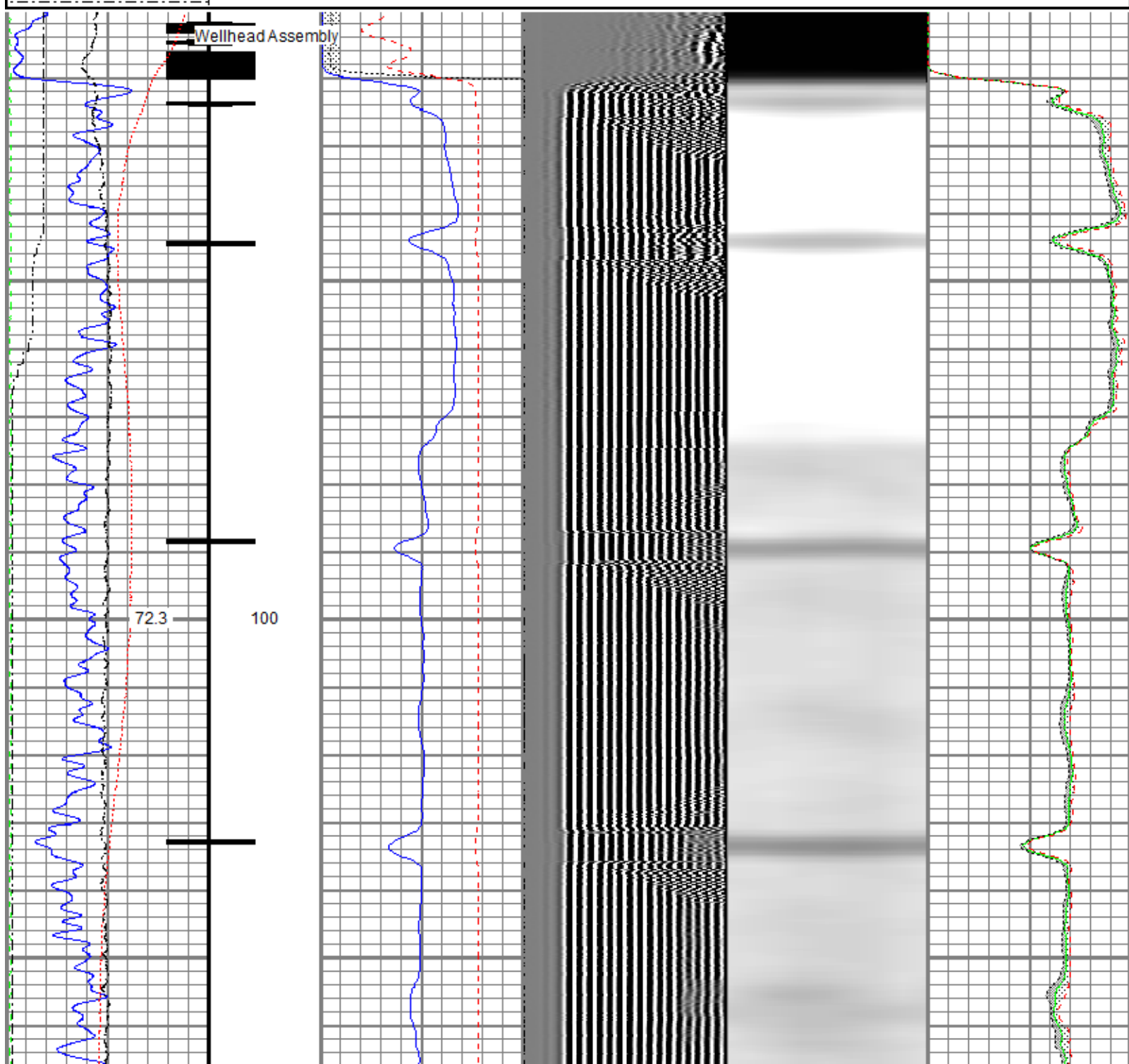
Main Pass

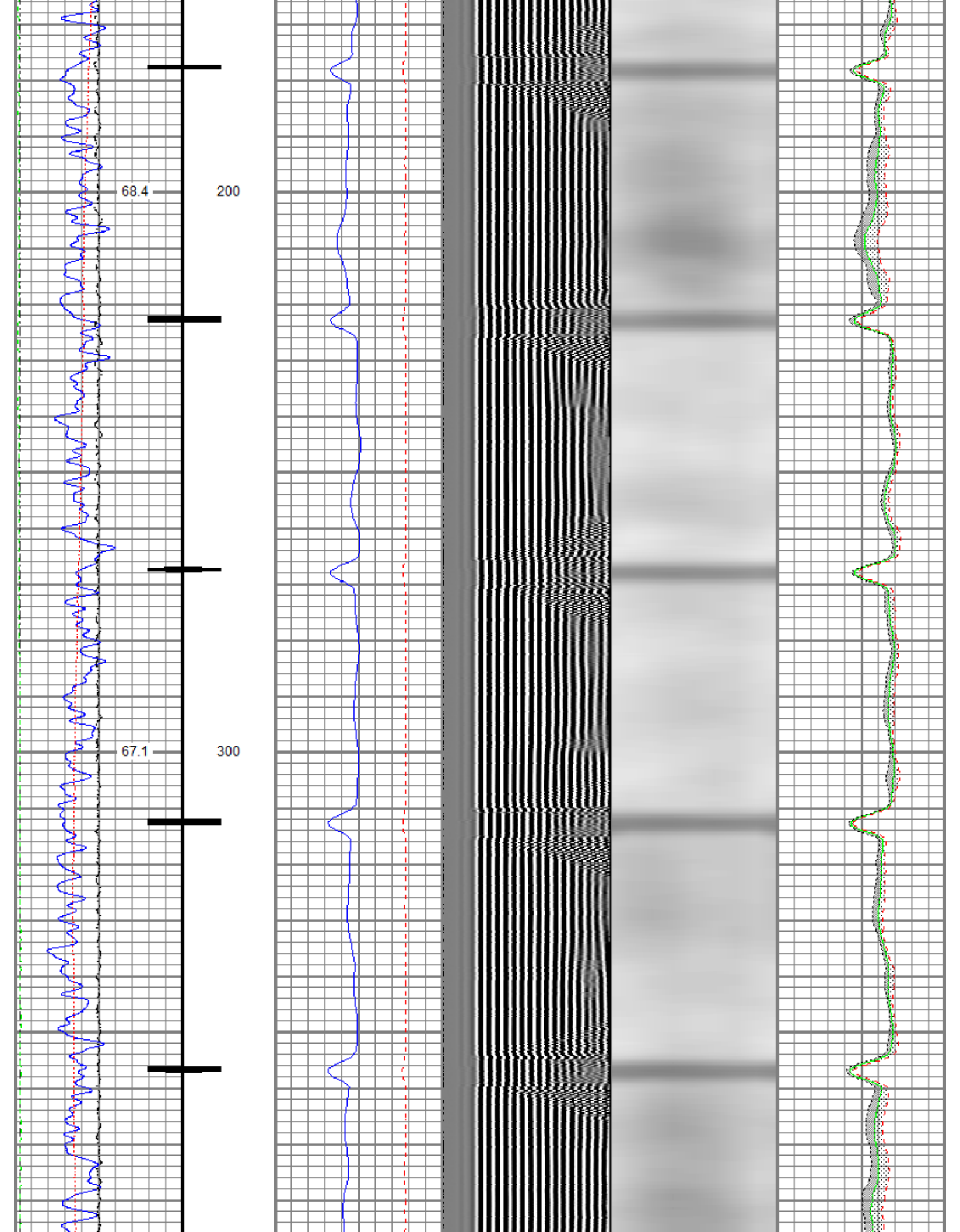


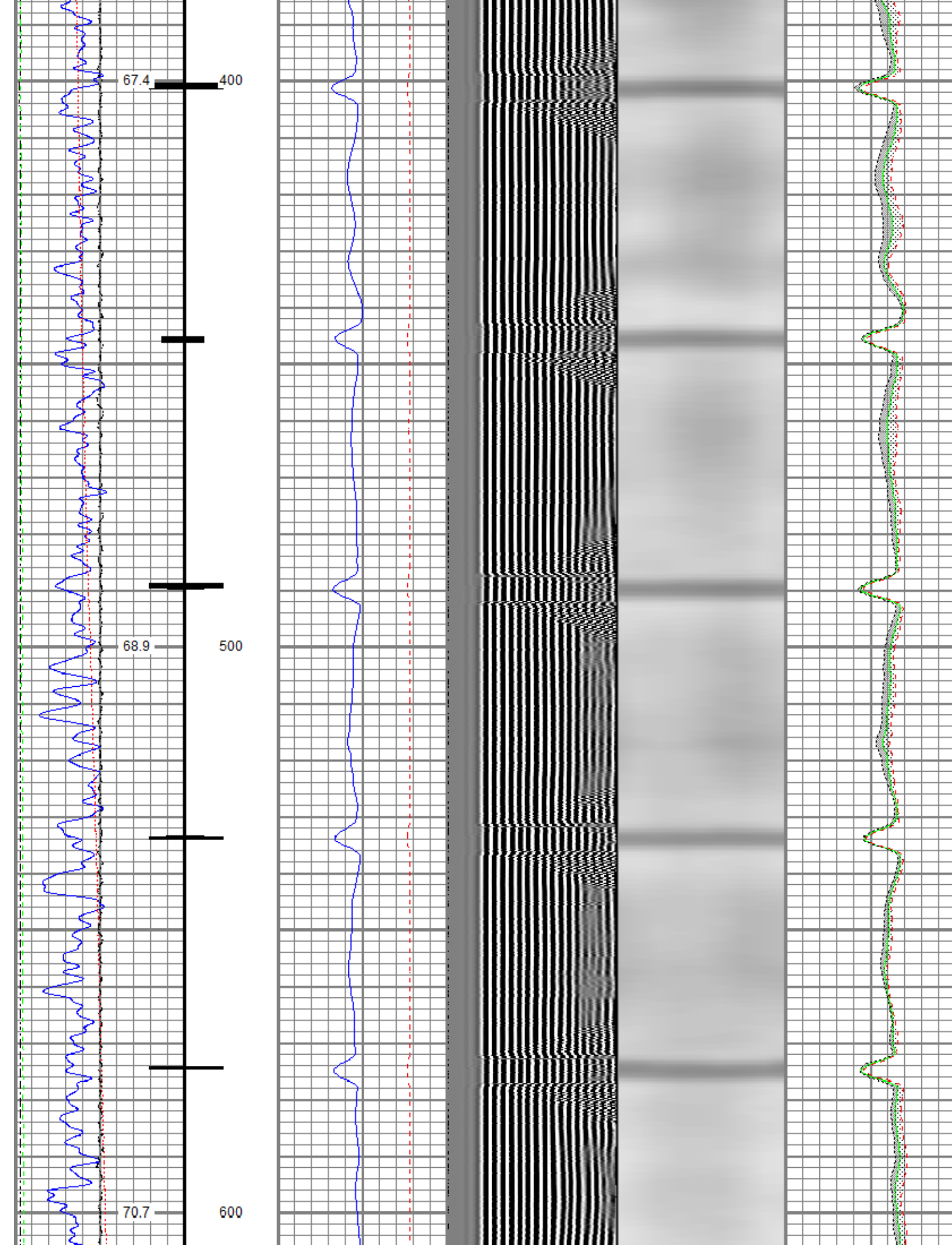
Recorded With 2800 PSI Surface-Induced Pressure

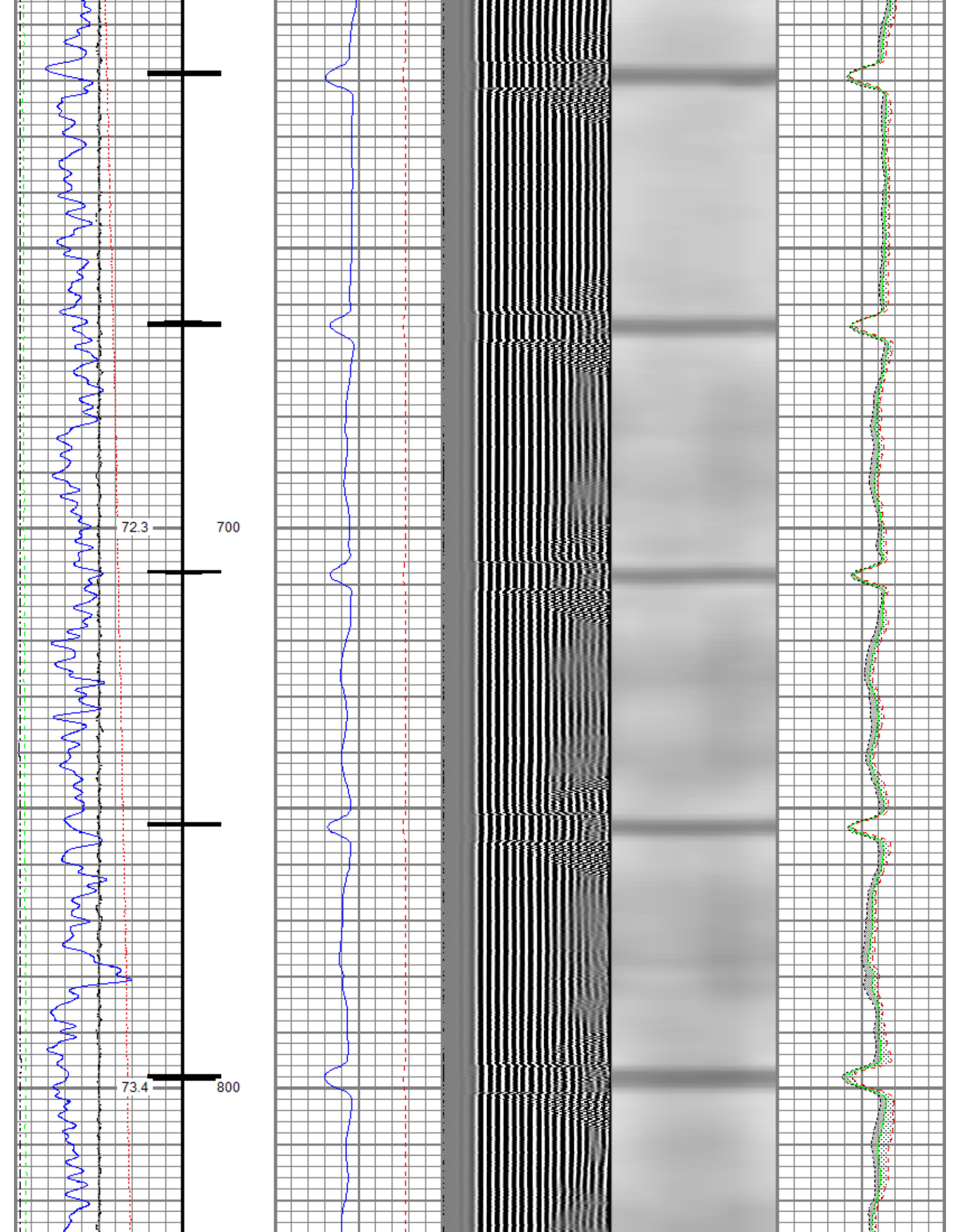
Database File anadarko_quarter circle 24-10hz\0512346261_anadarko_quarter circle 24-10hz_rbl_07-16-18_2800 psi.db
 Dataset Pathname pass4
 Presentation Format ros_radrii
 Dataset Creation Mon Jul 16 13:18:24 2018
 Charted by Depth in Feet scaled 1:240

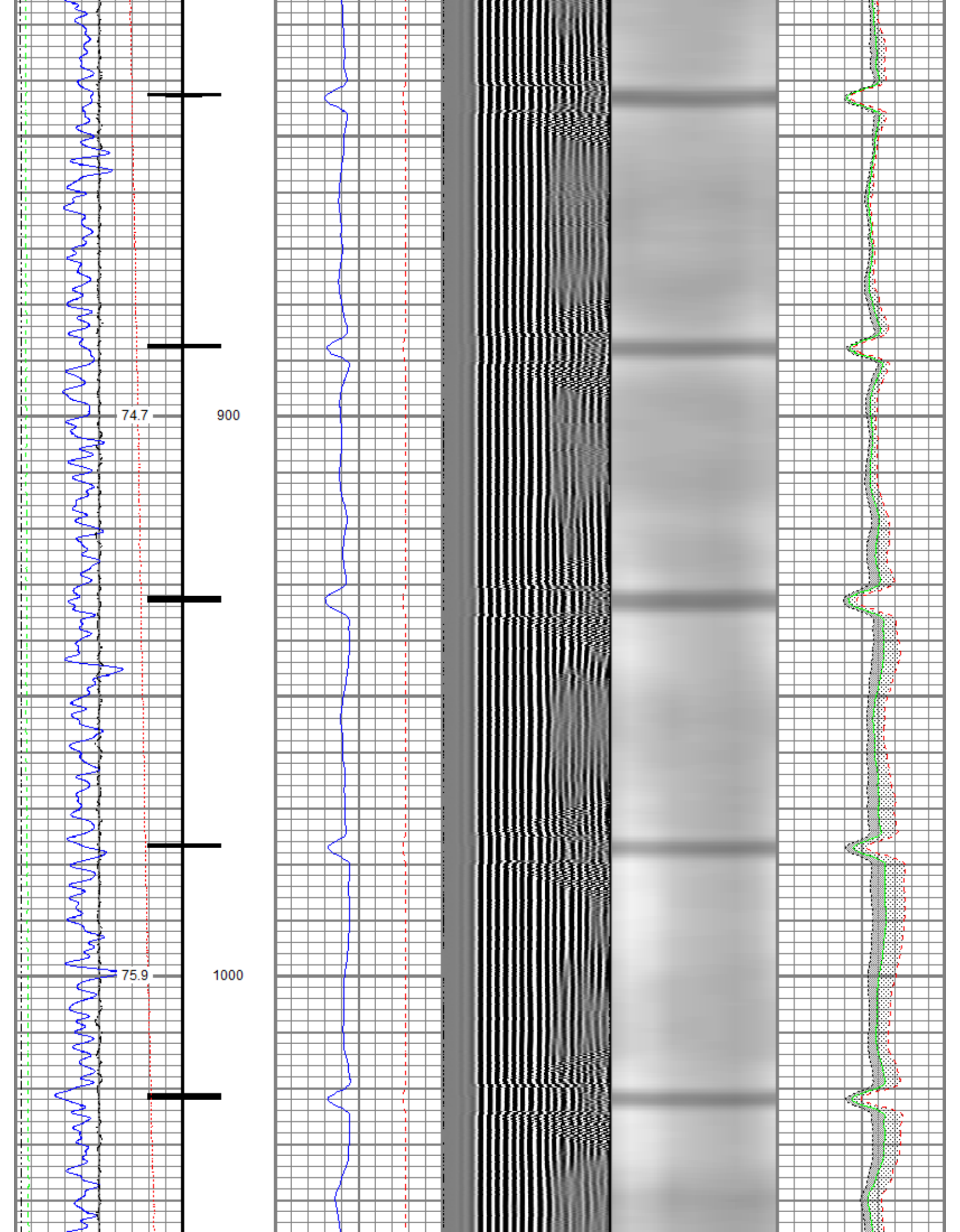
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
0 Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150		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

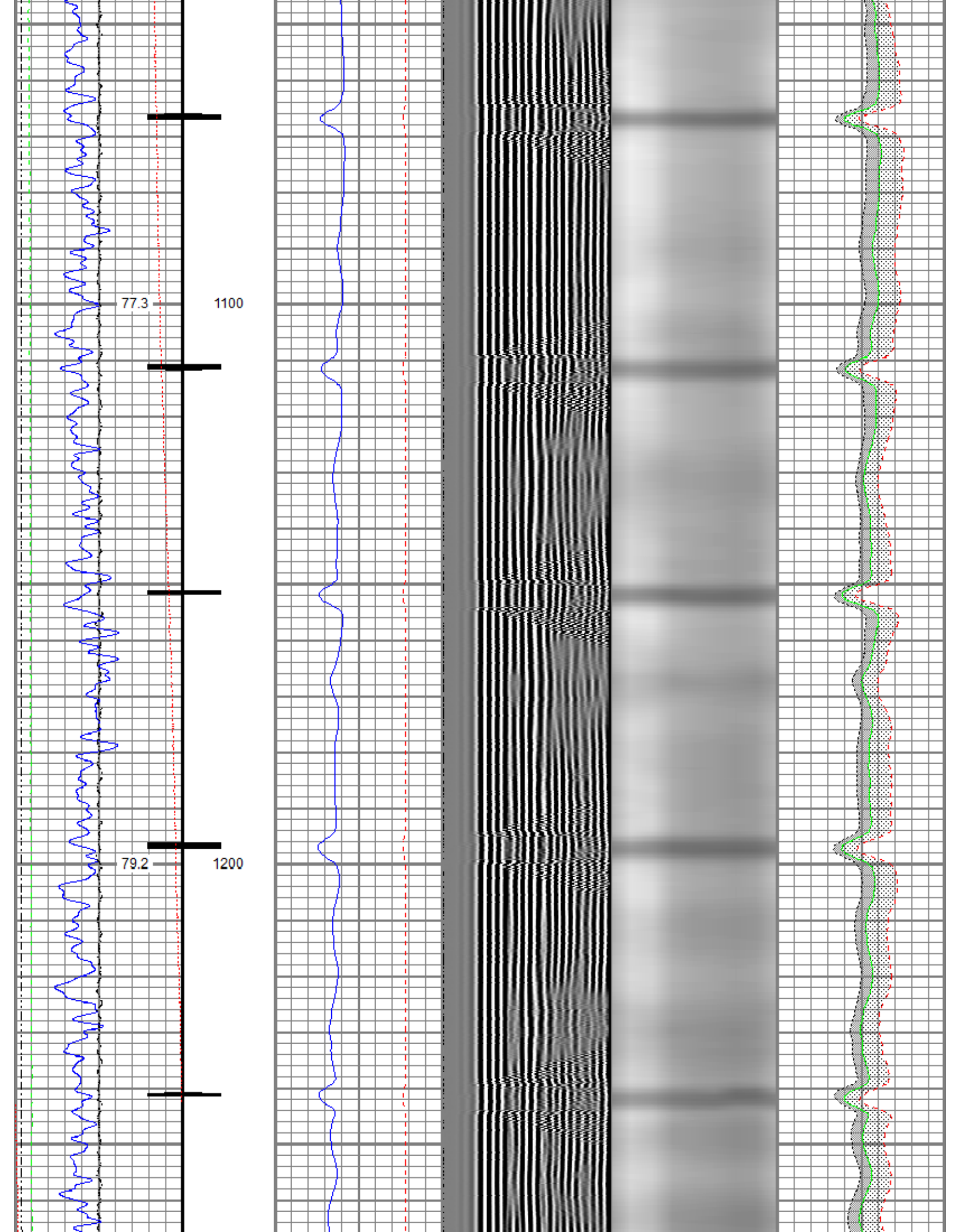


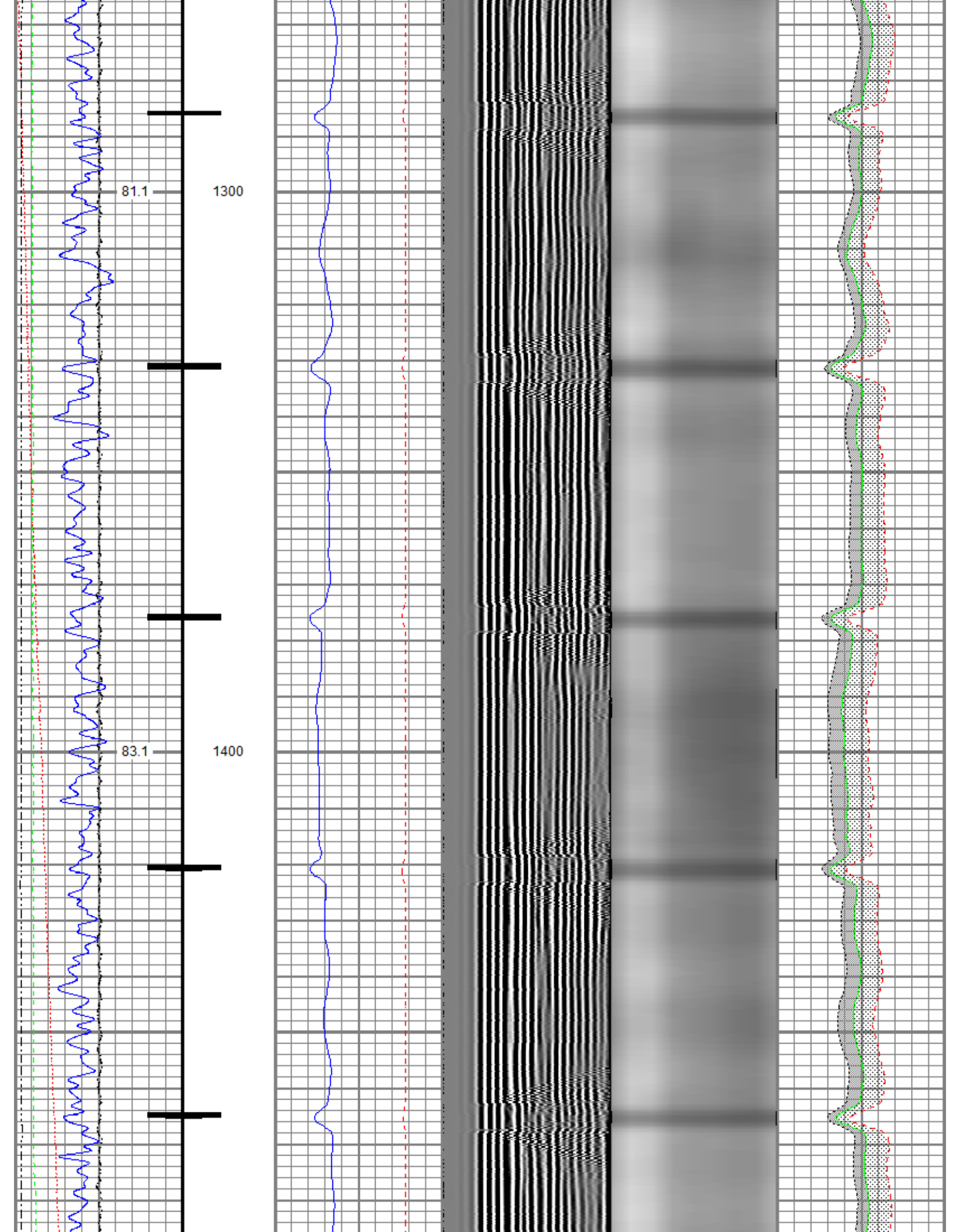


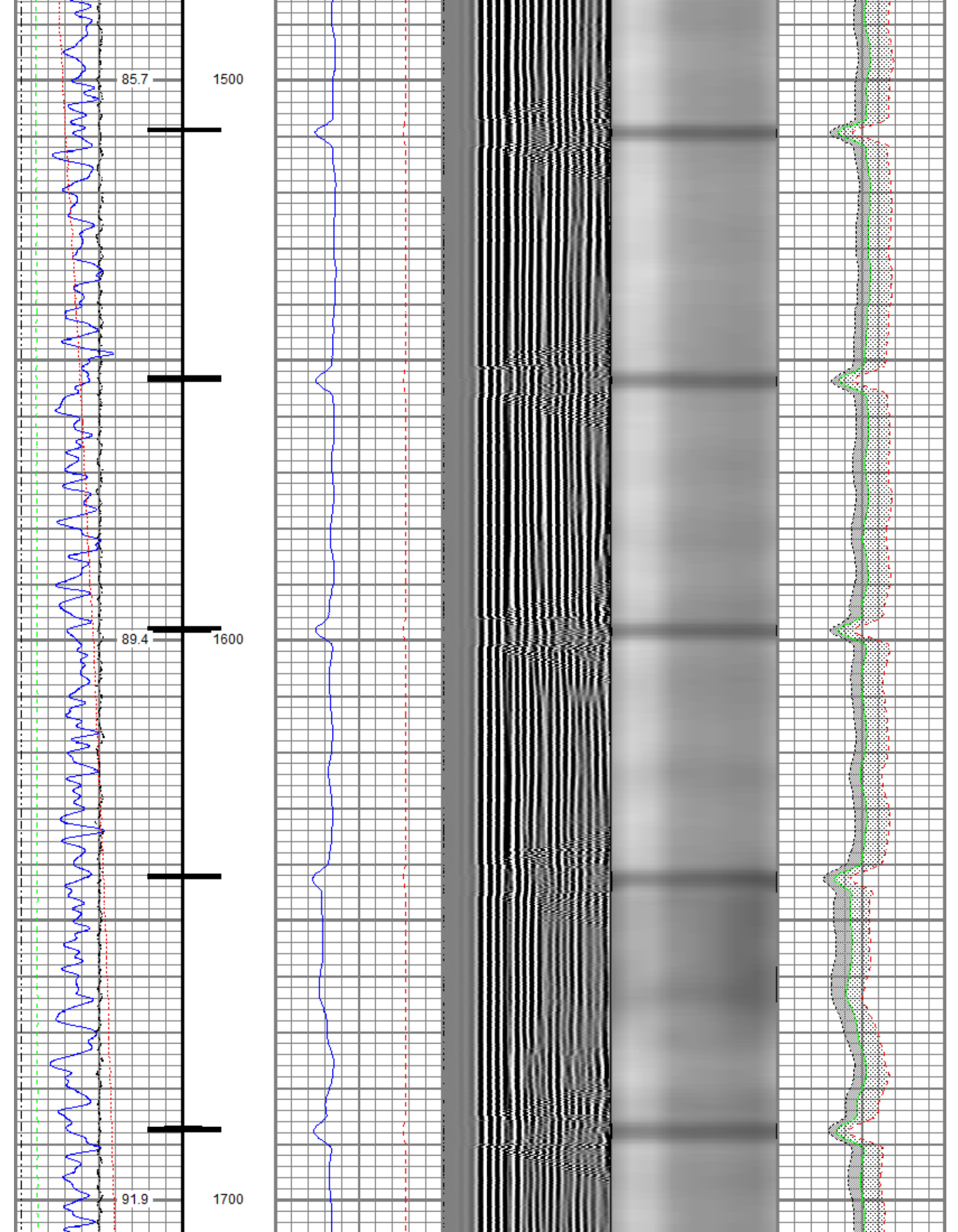


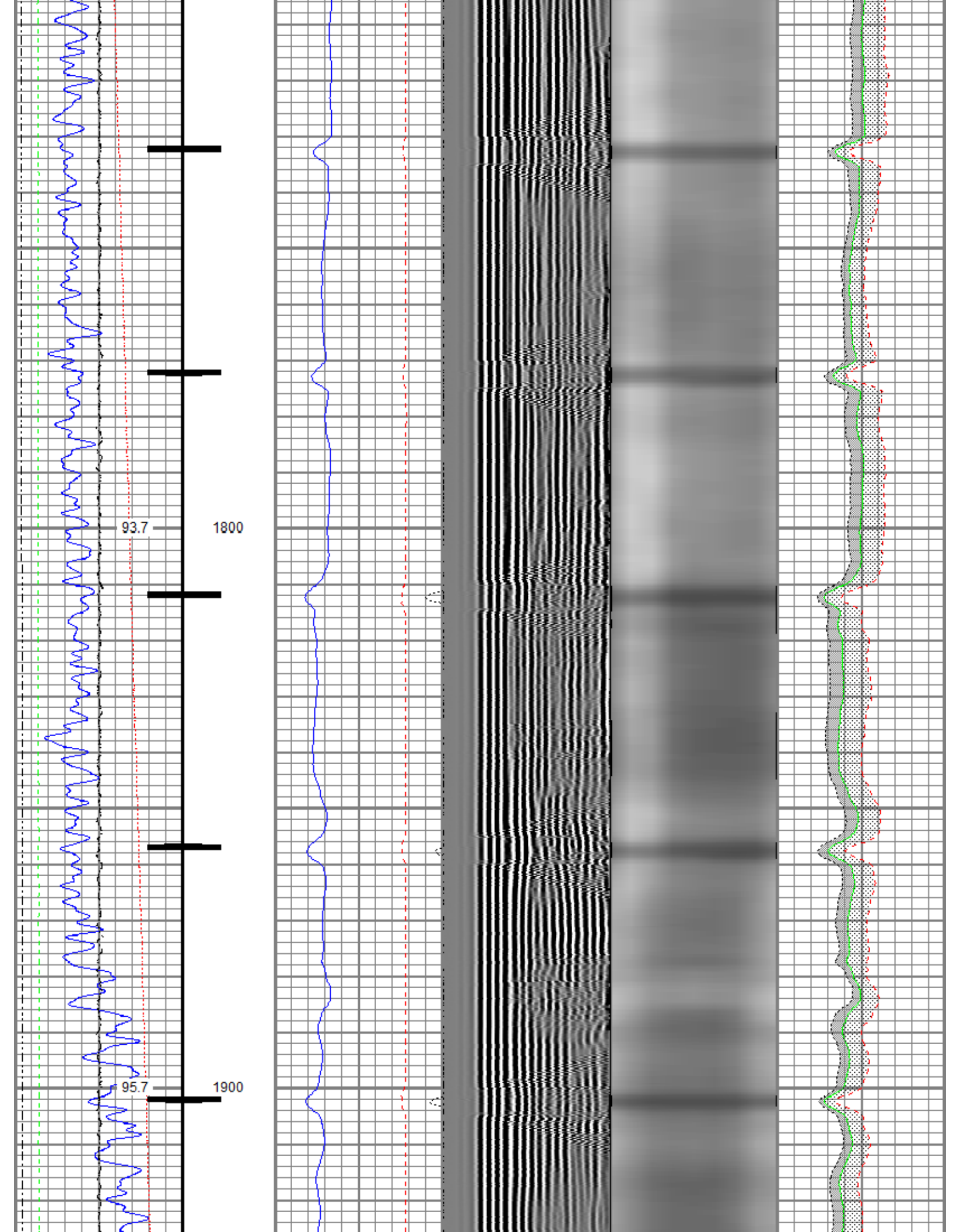


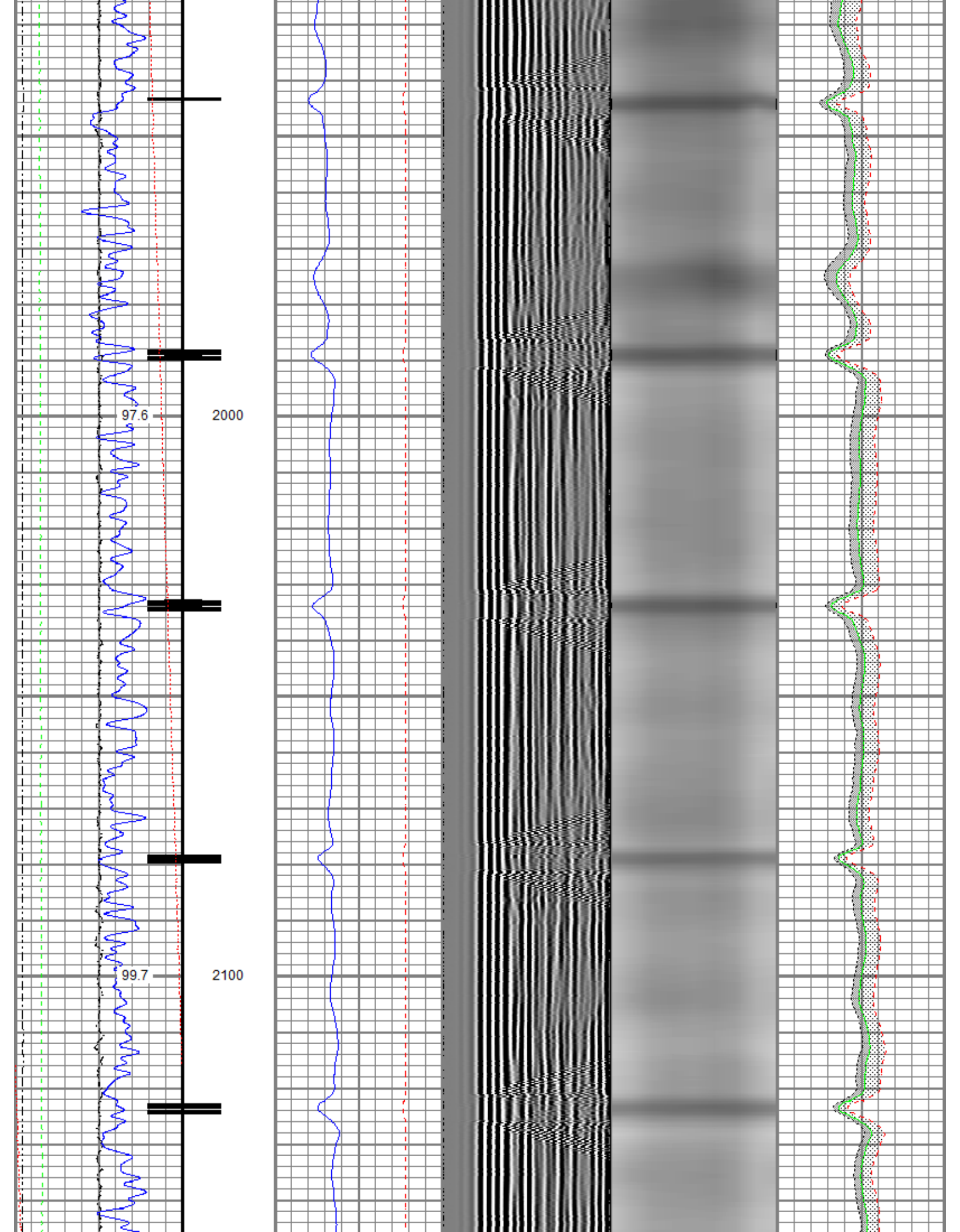


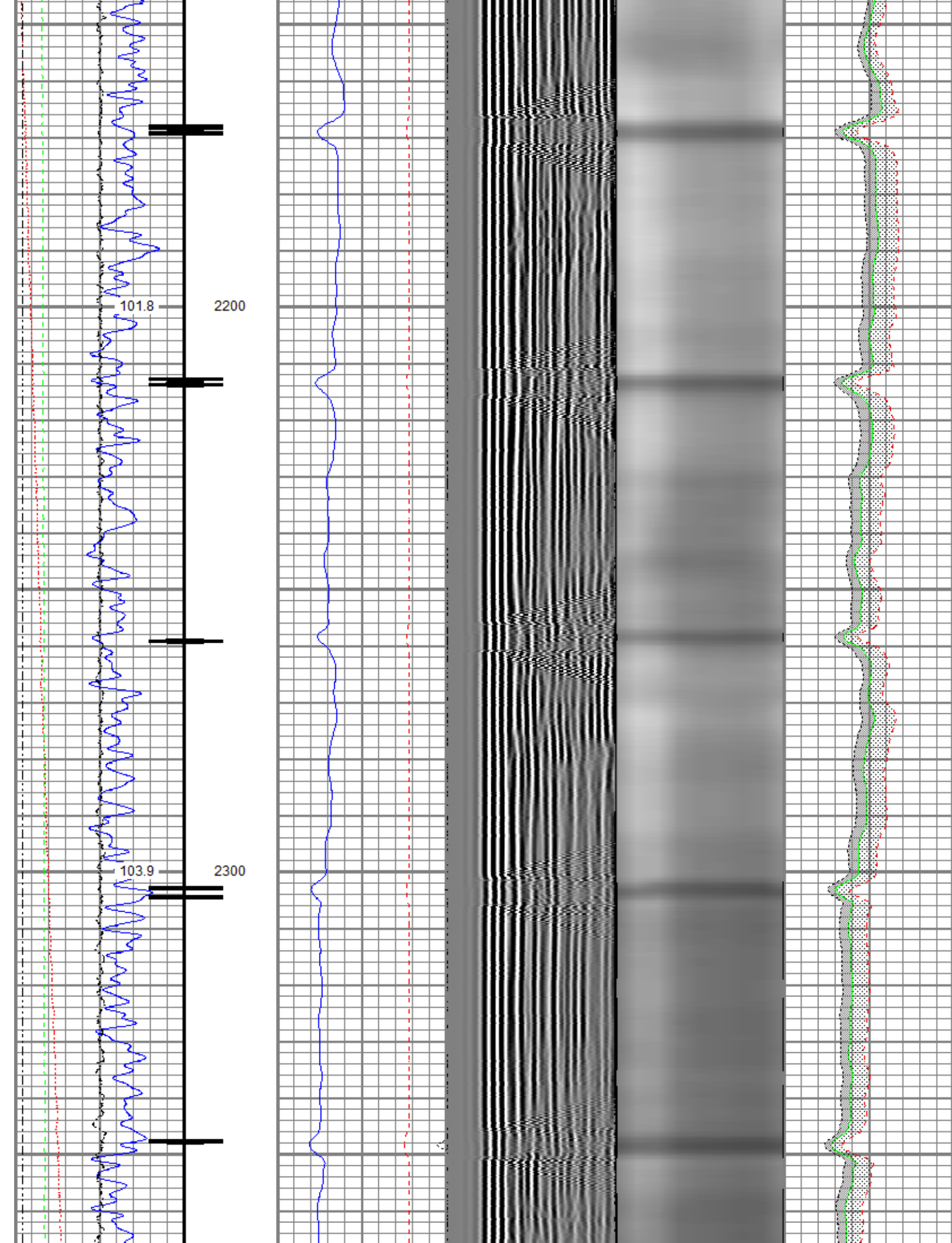


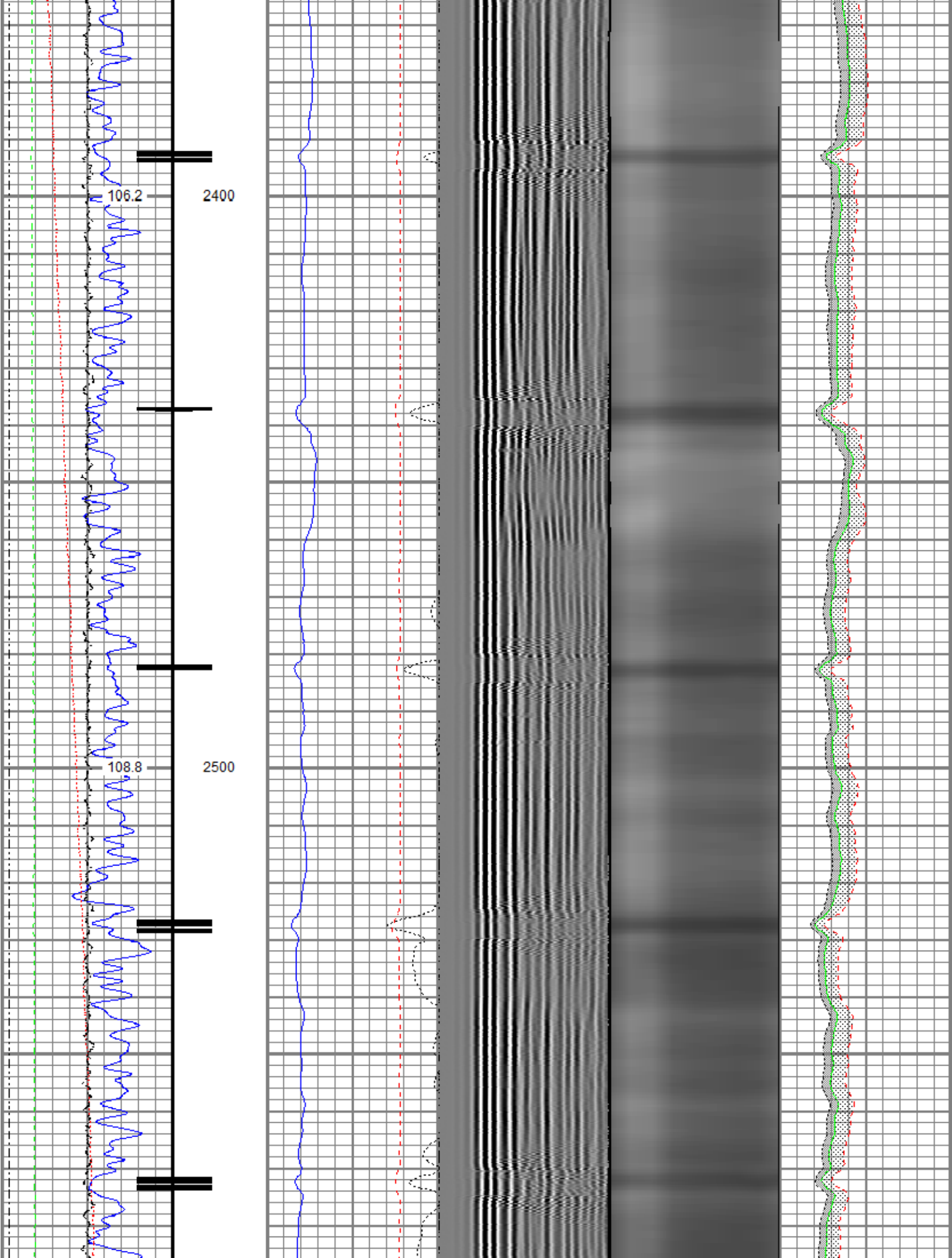


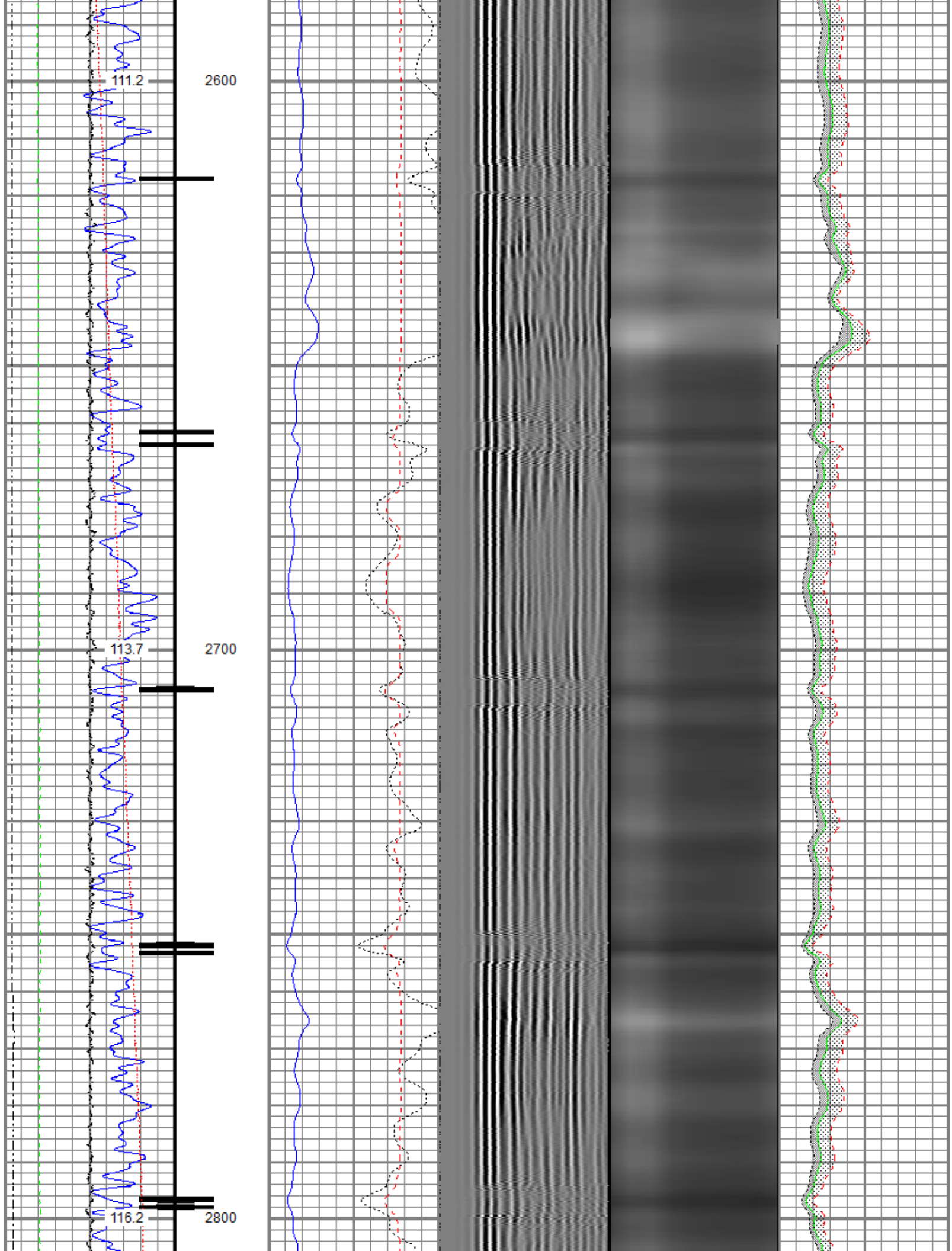


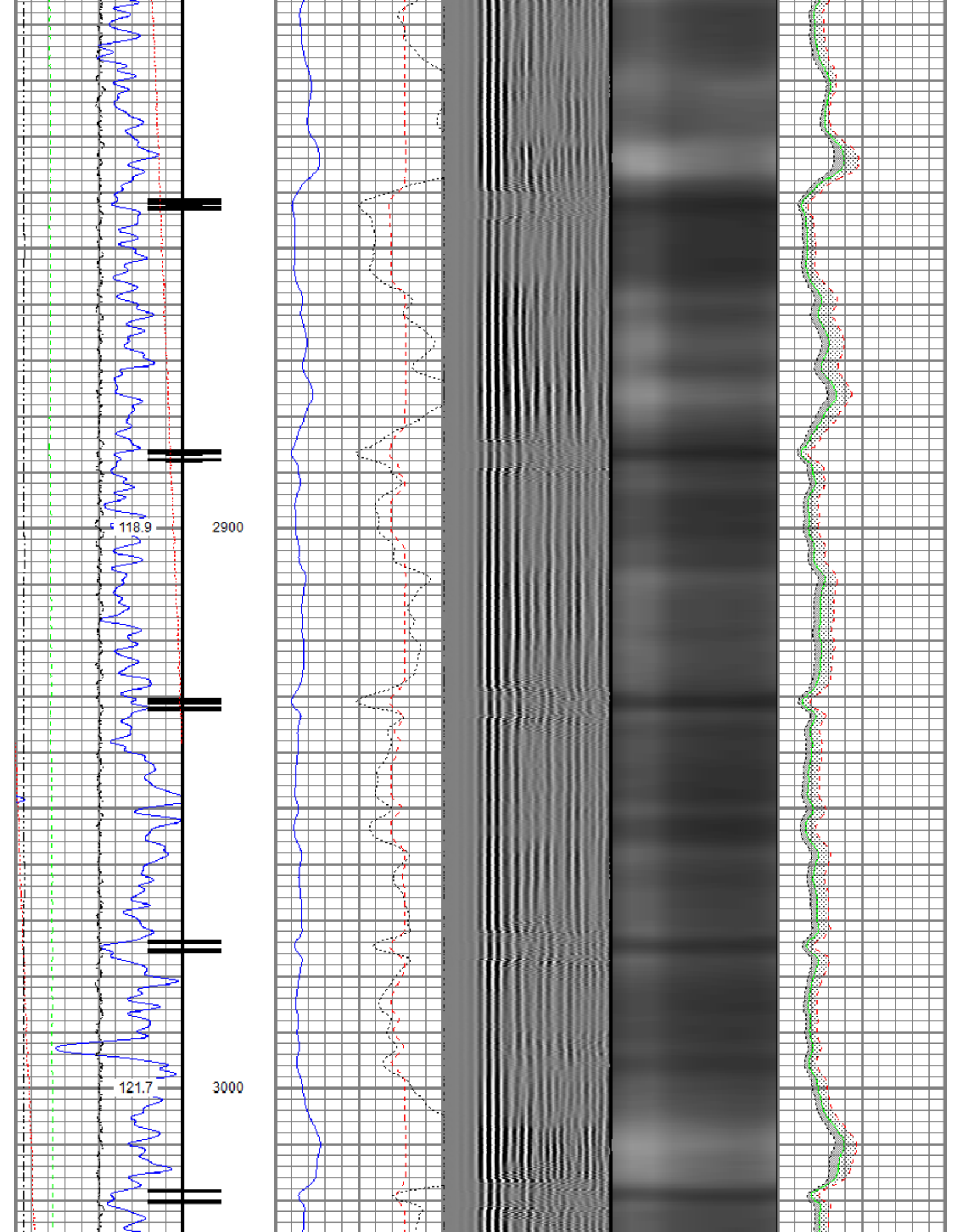


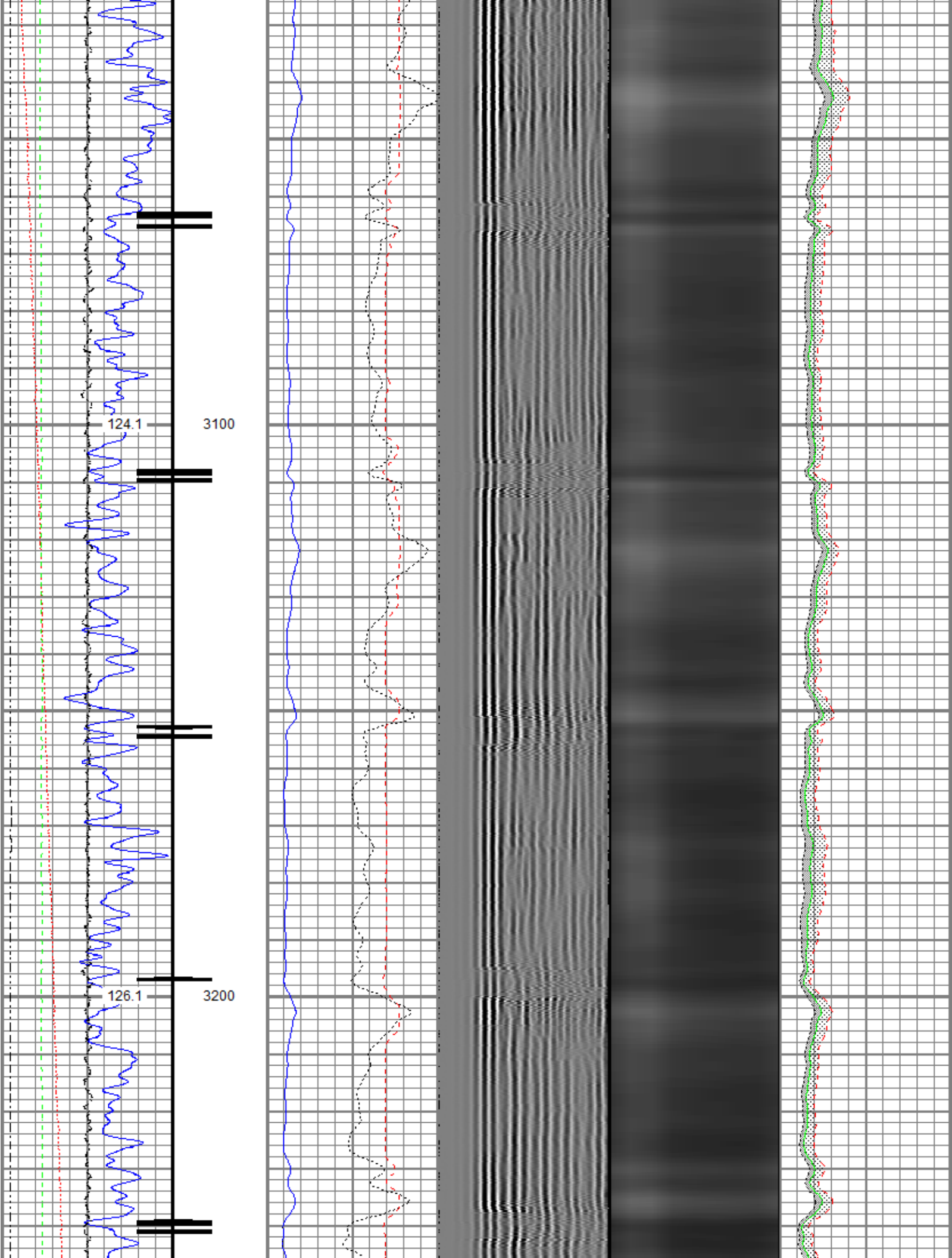


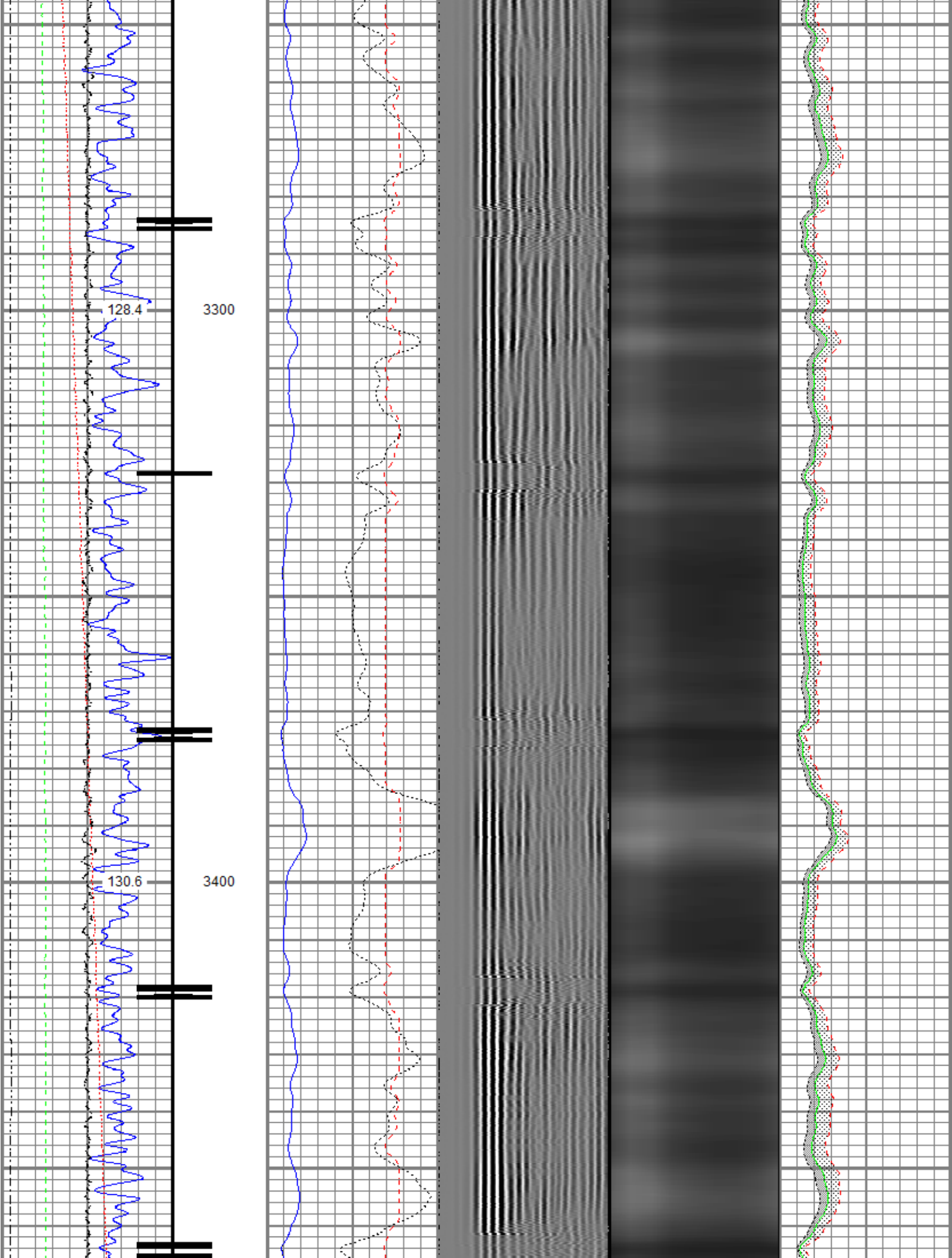


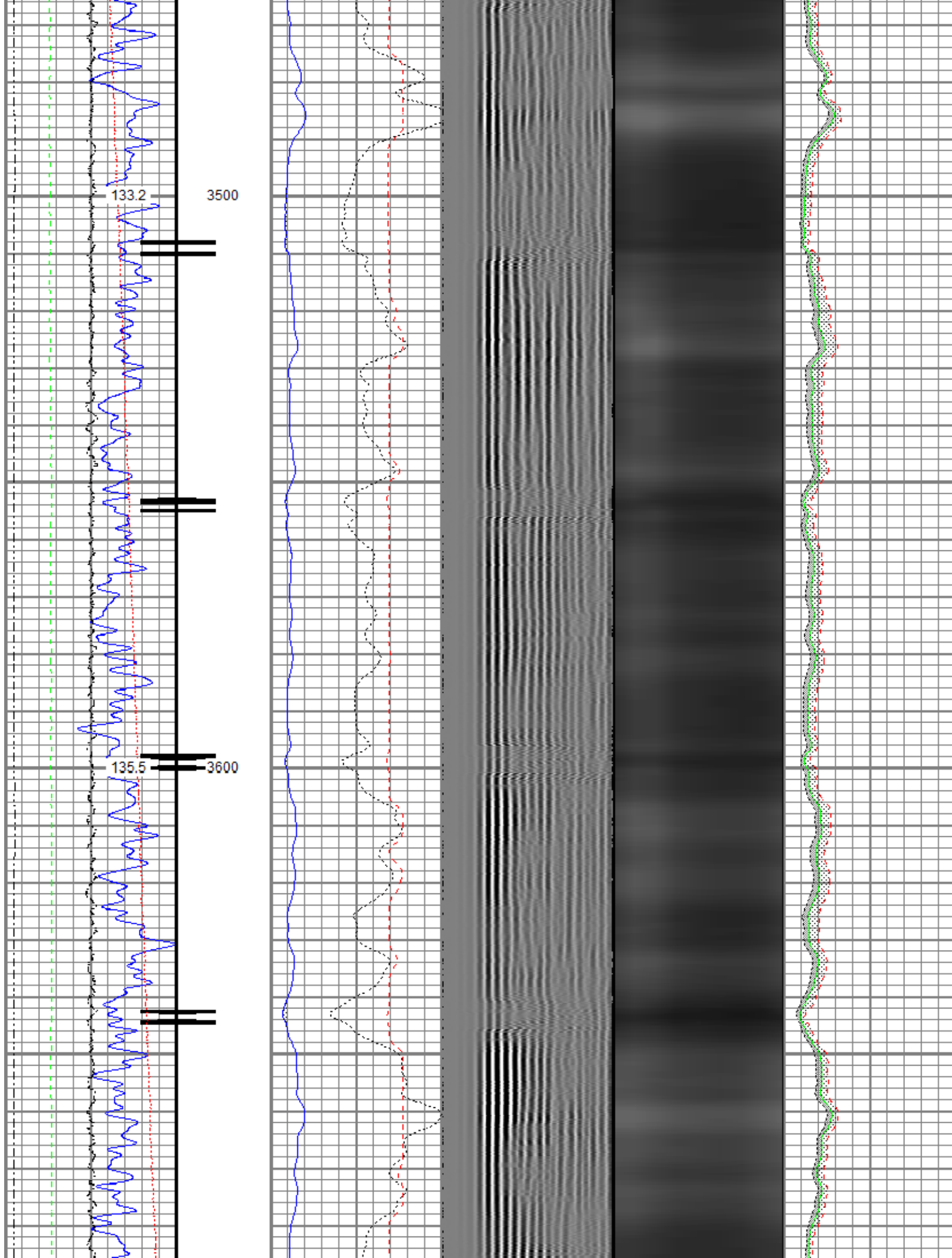


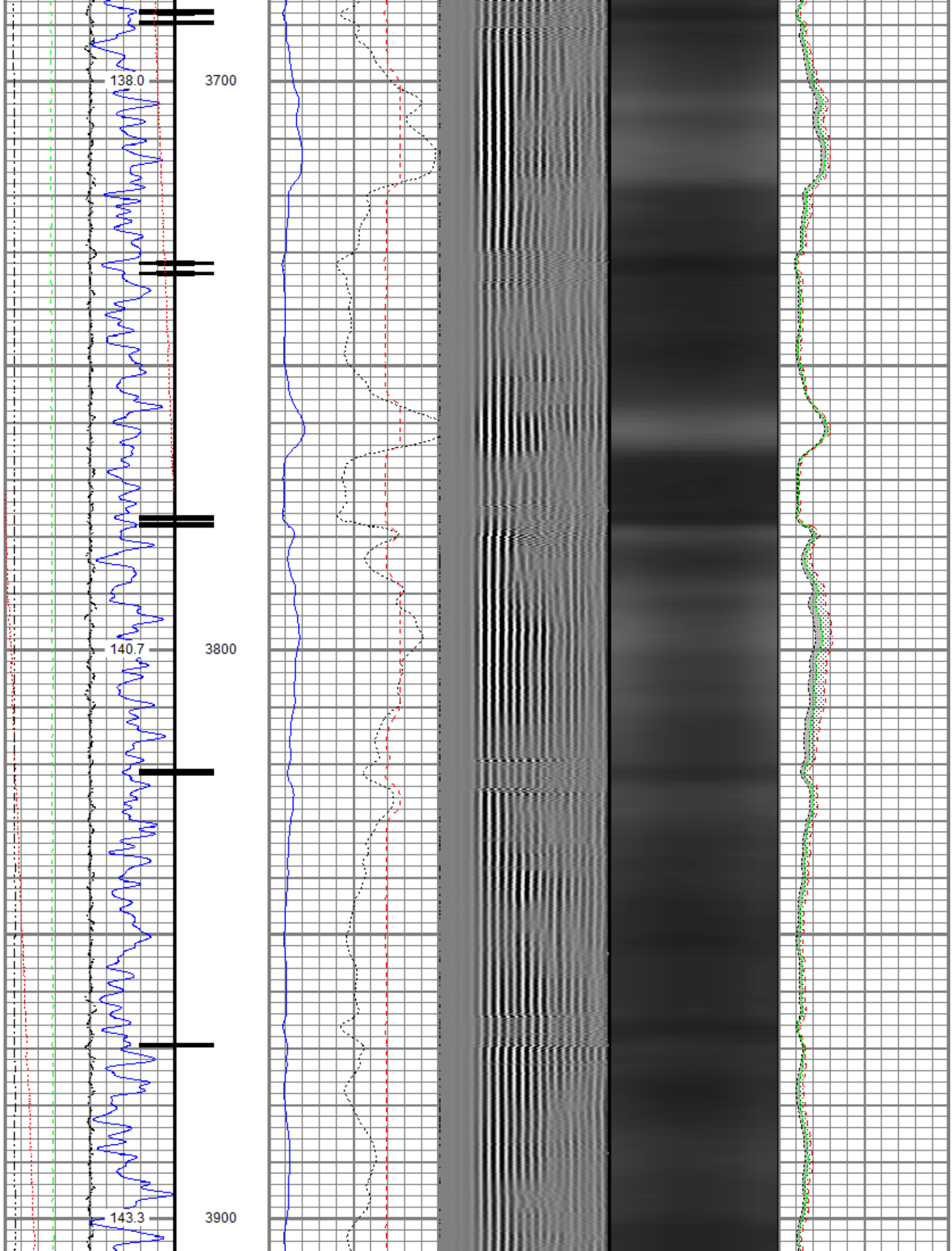


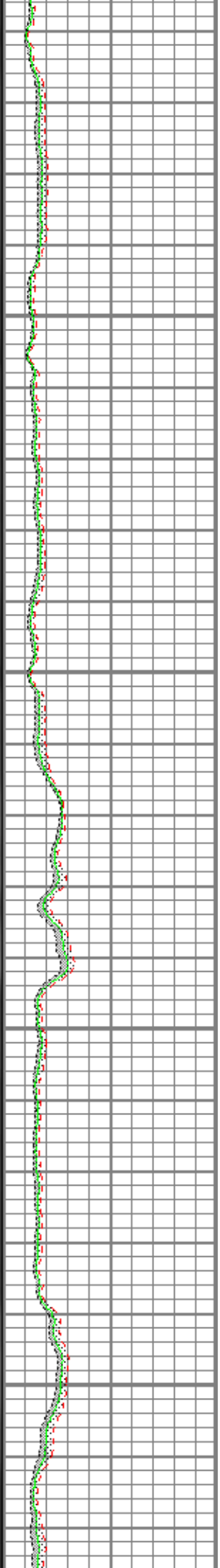
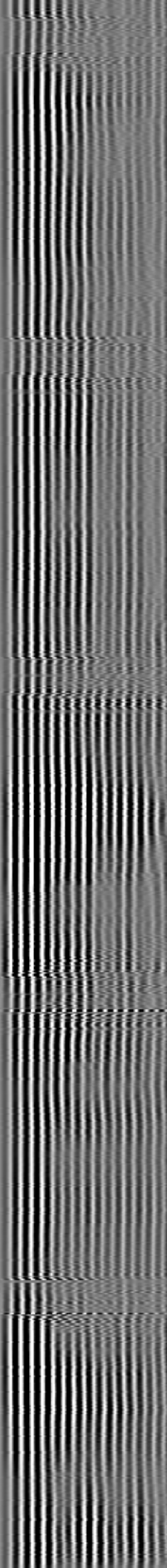
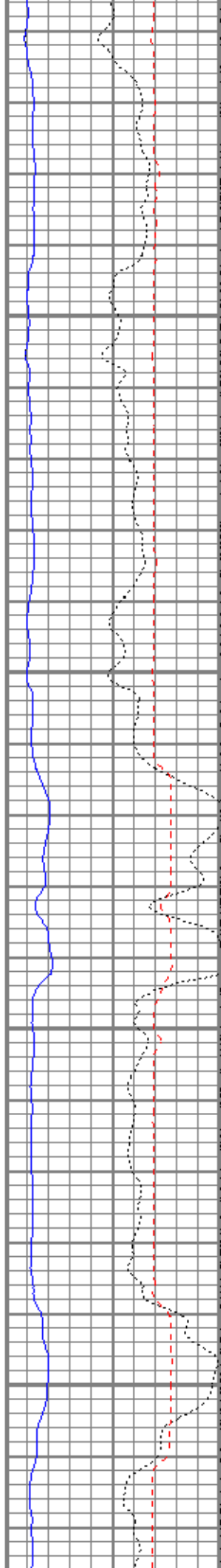
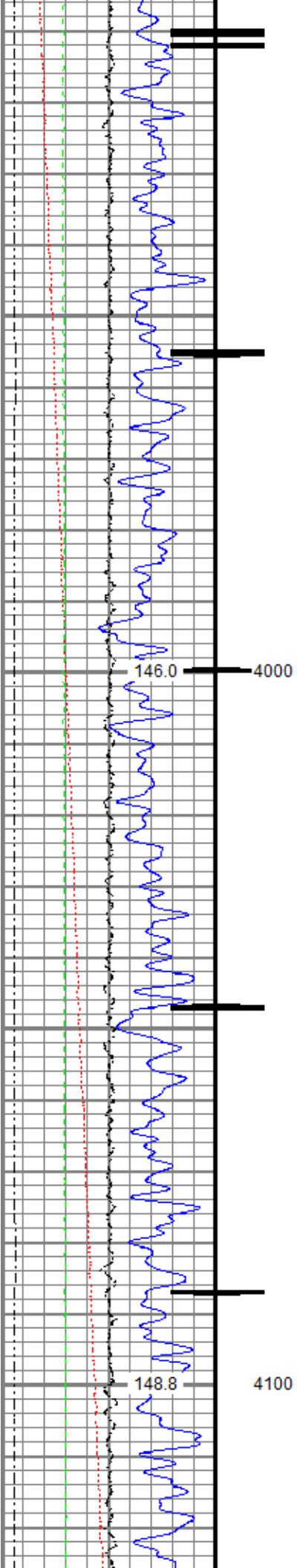


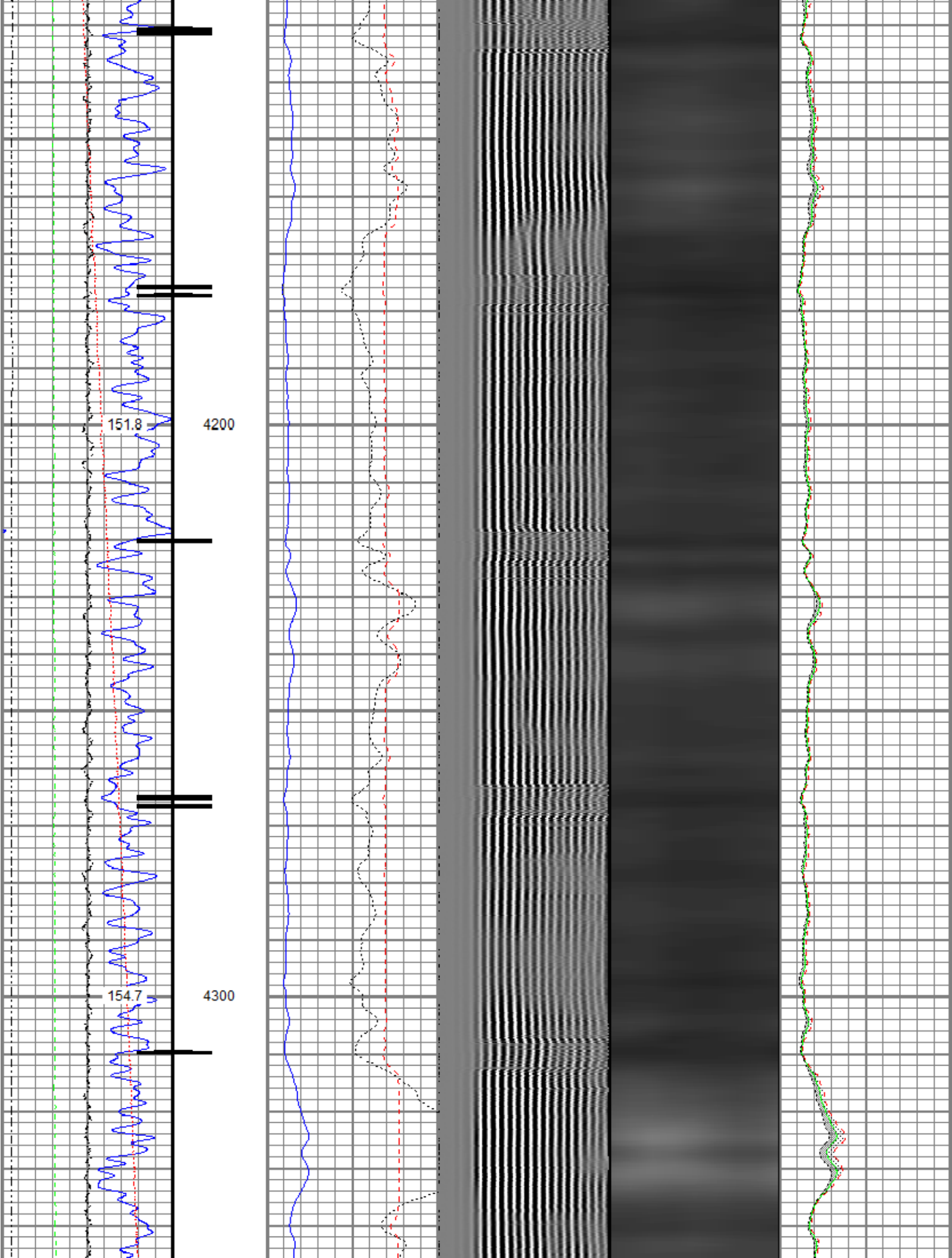


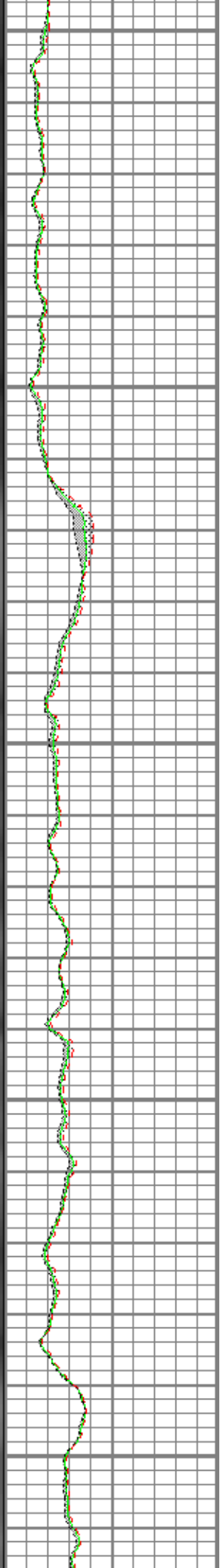
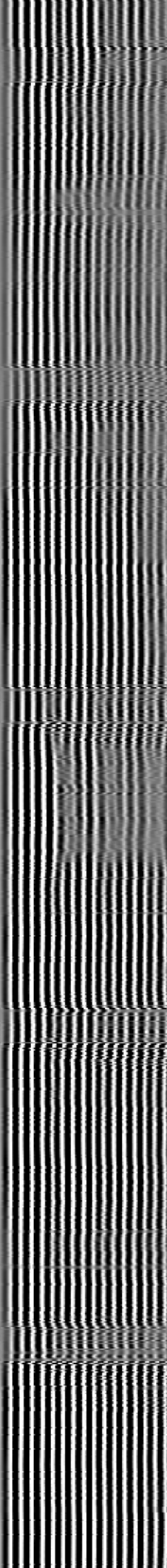
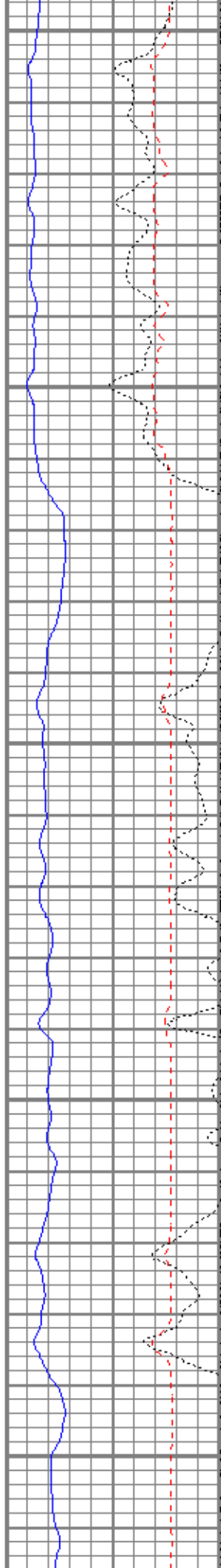
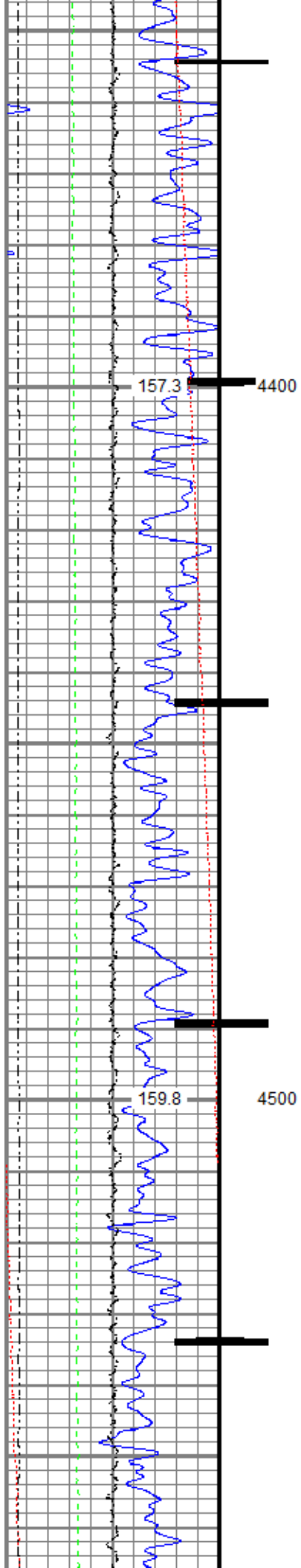


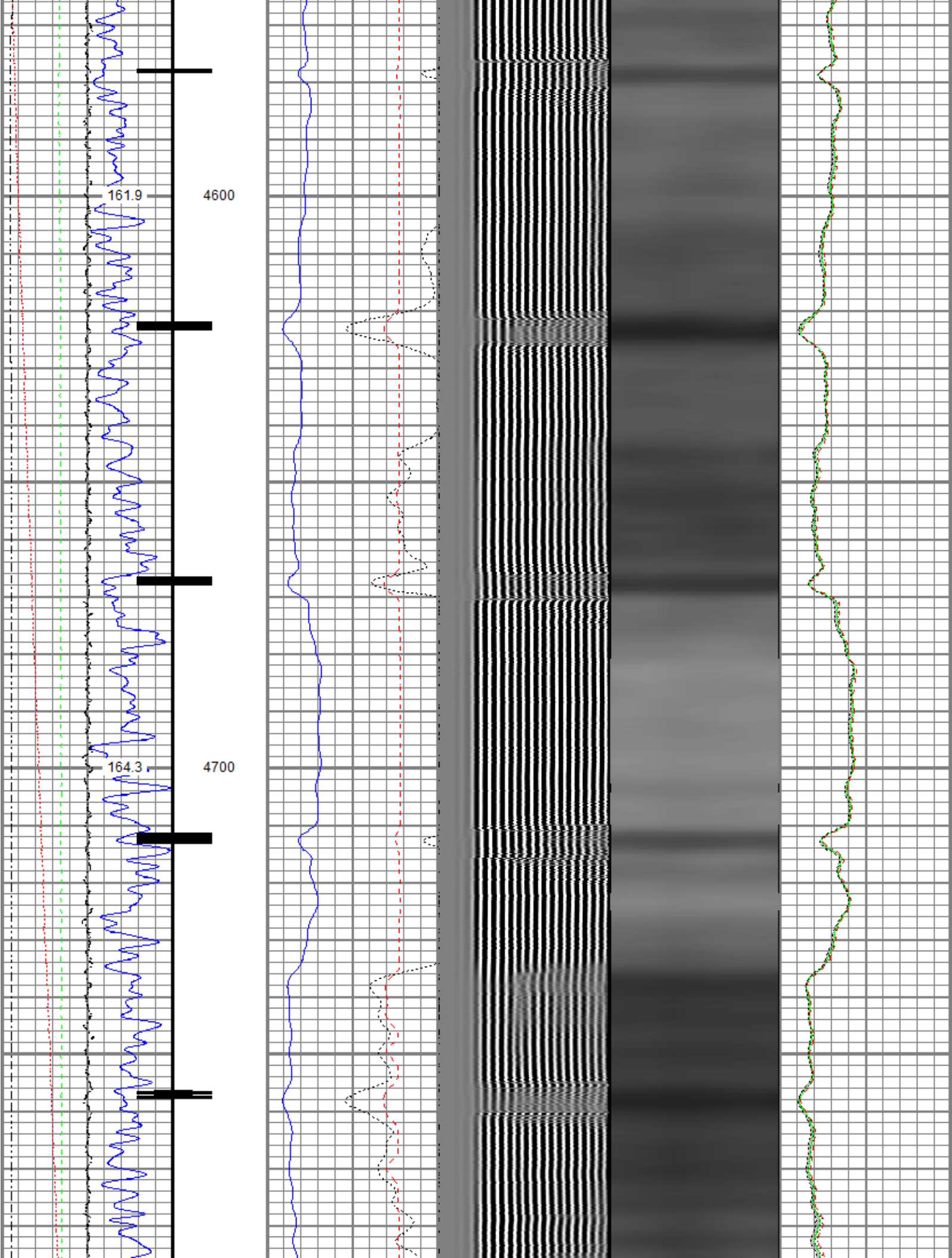


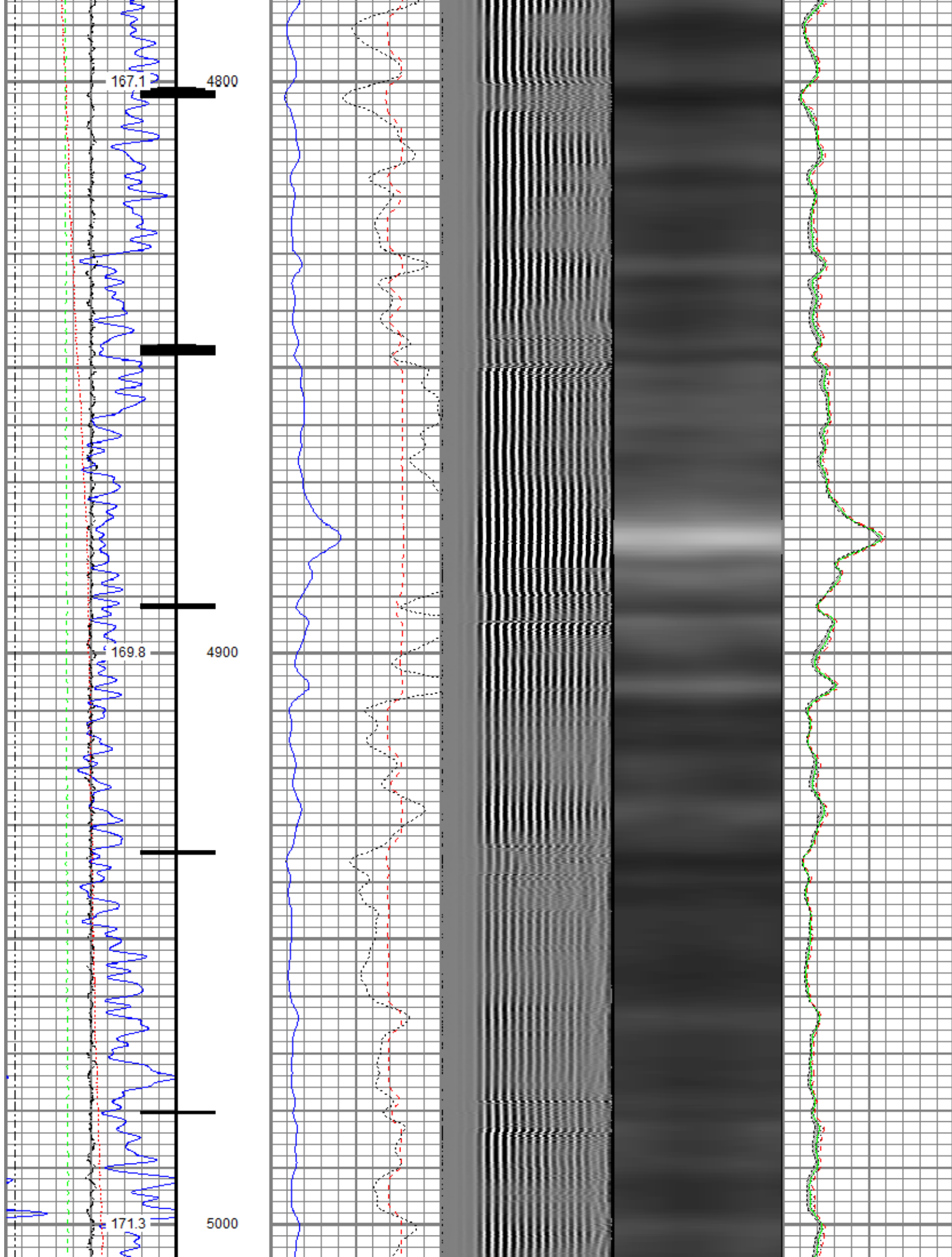


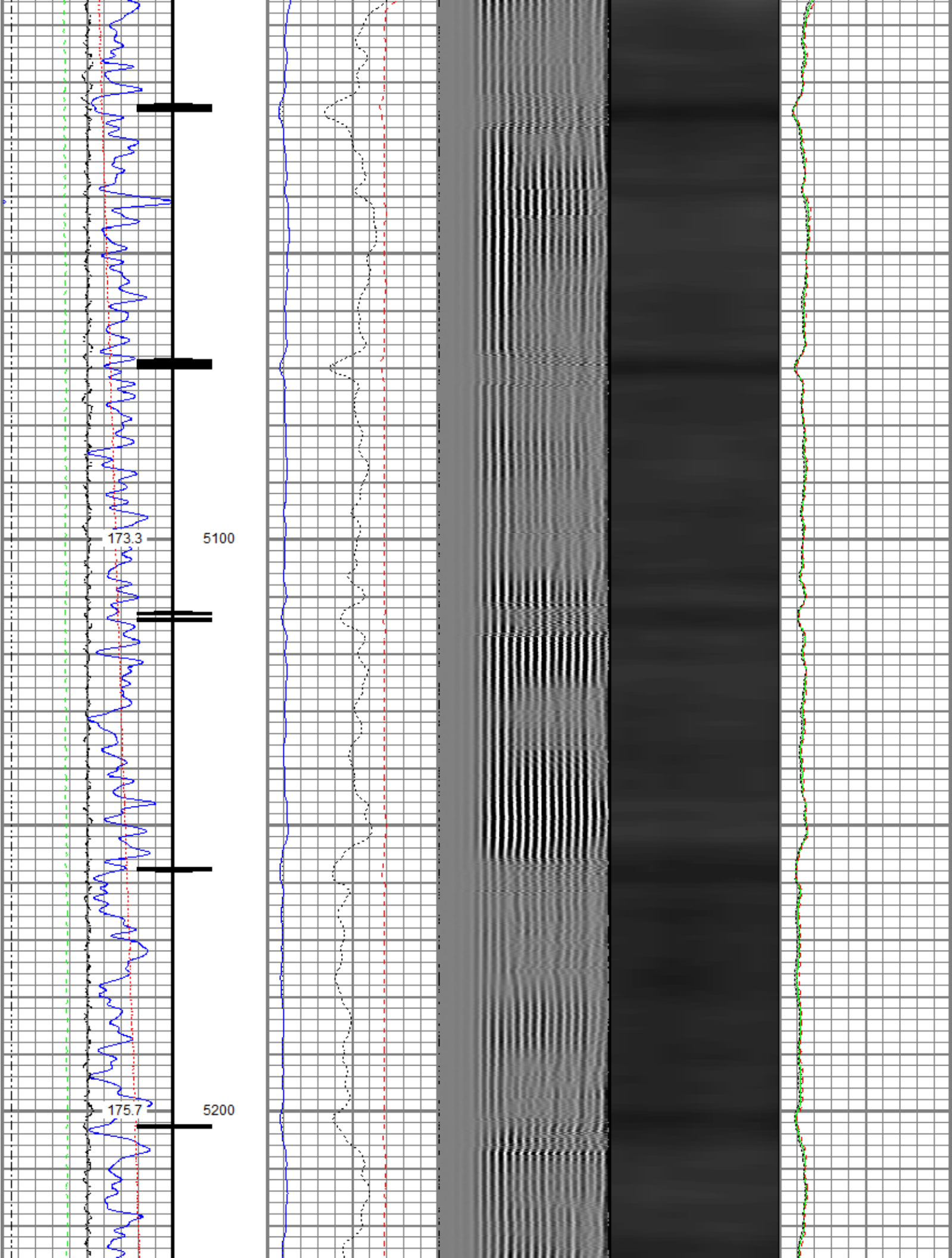


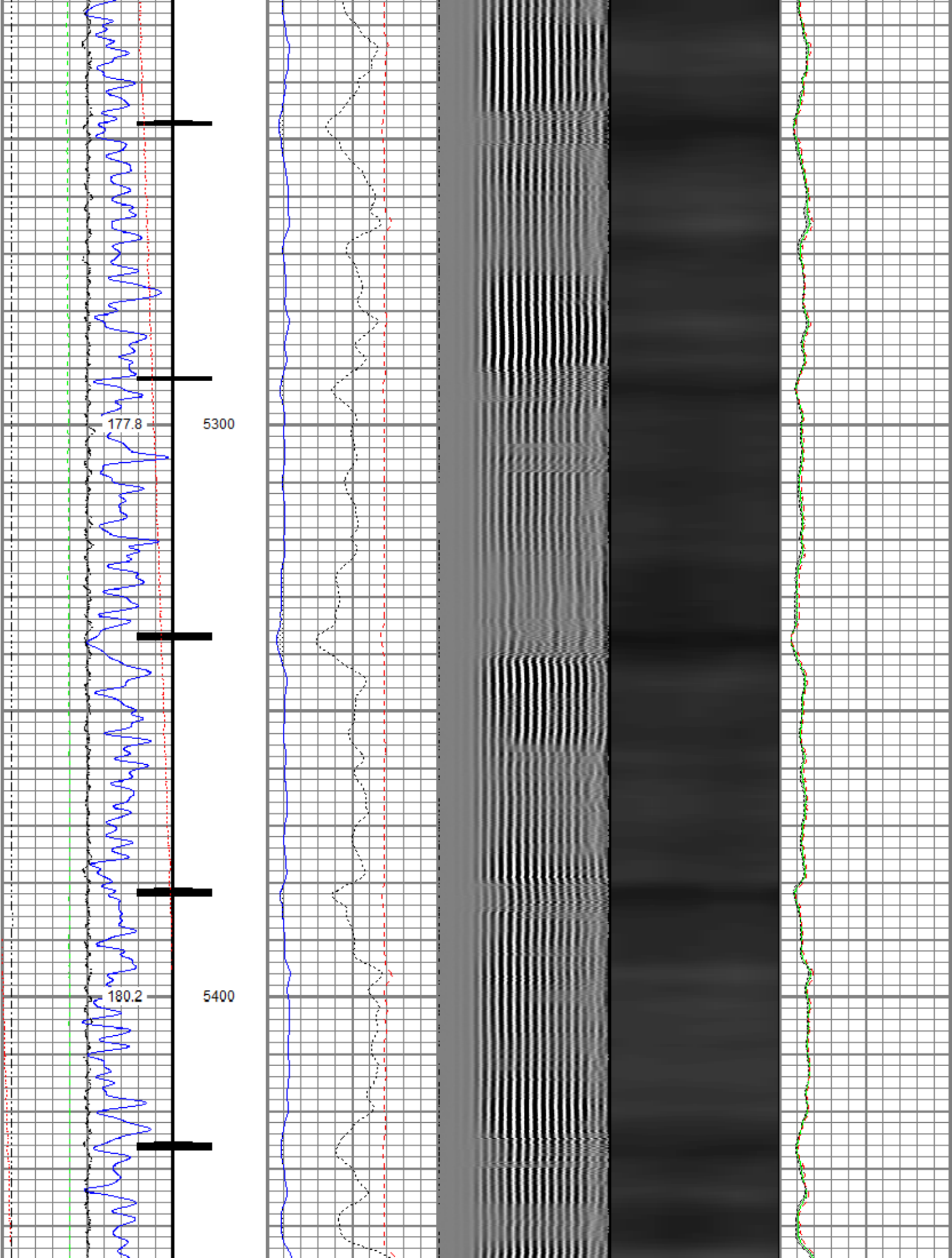


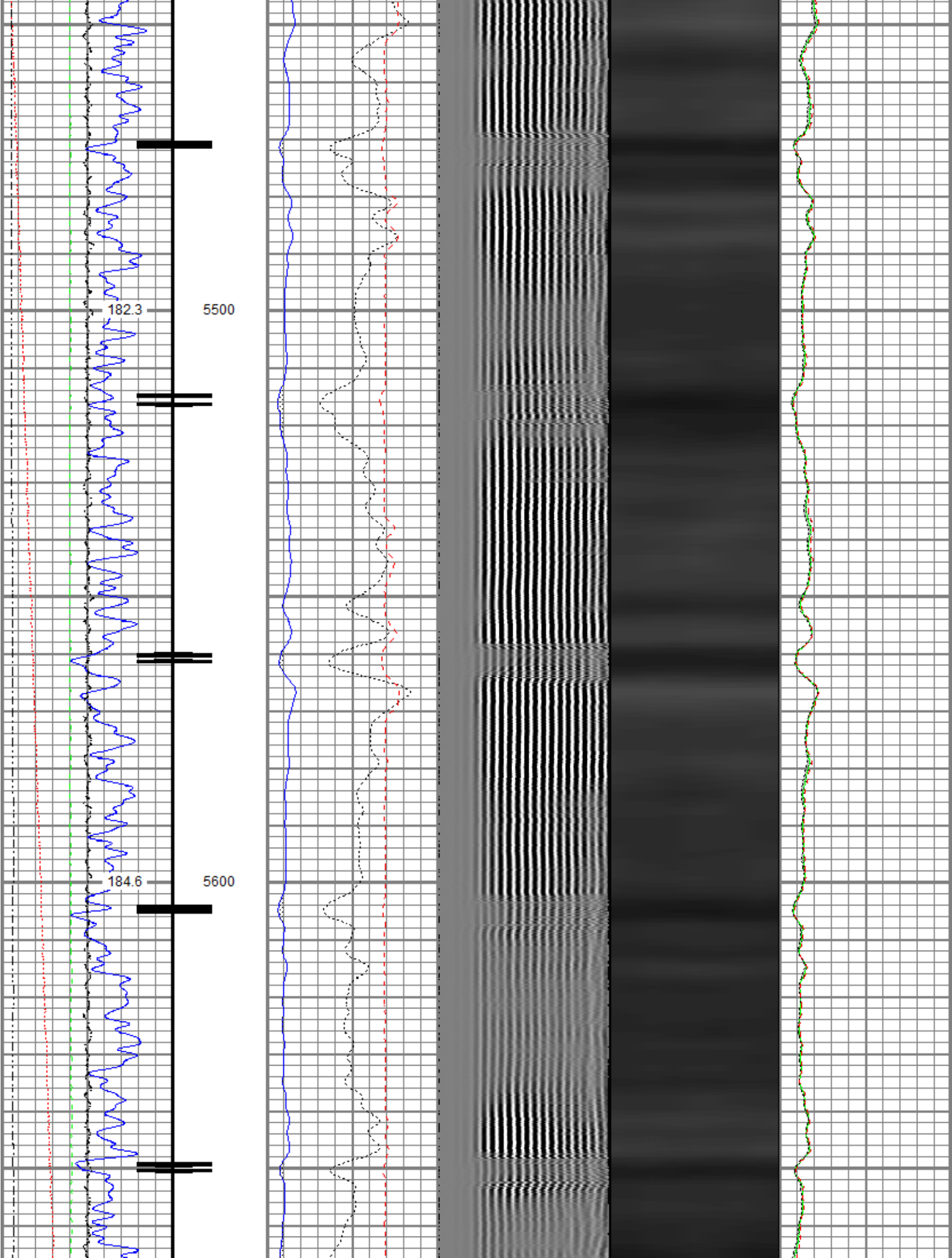


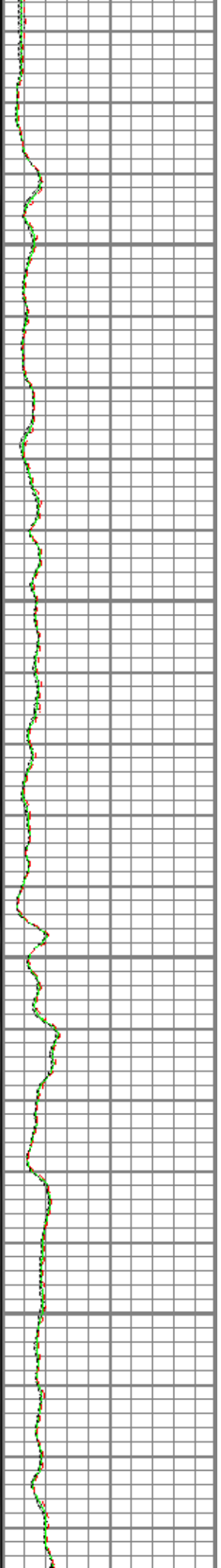
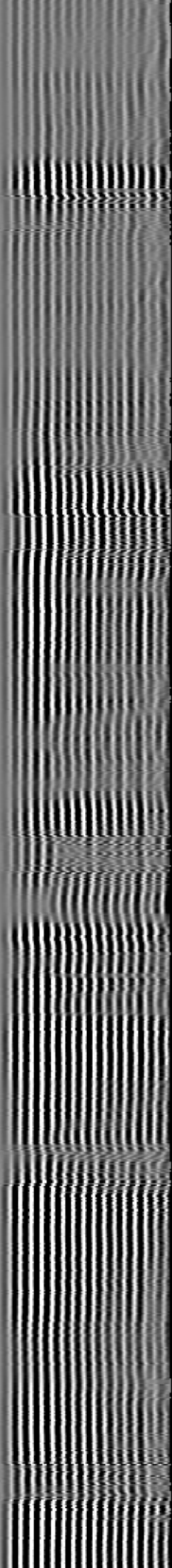
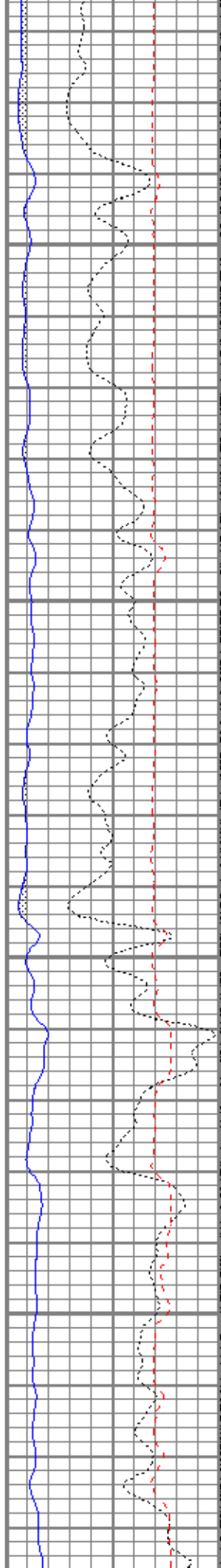
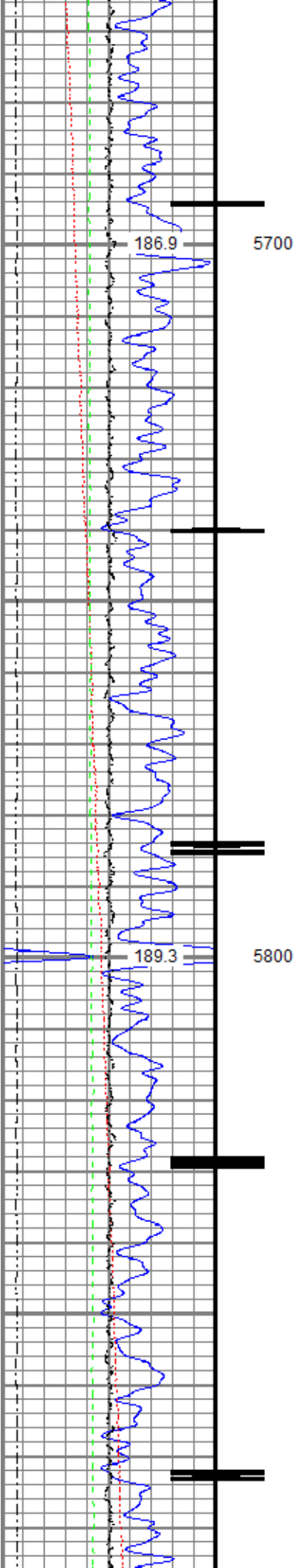


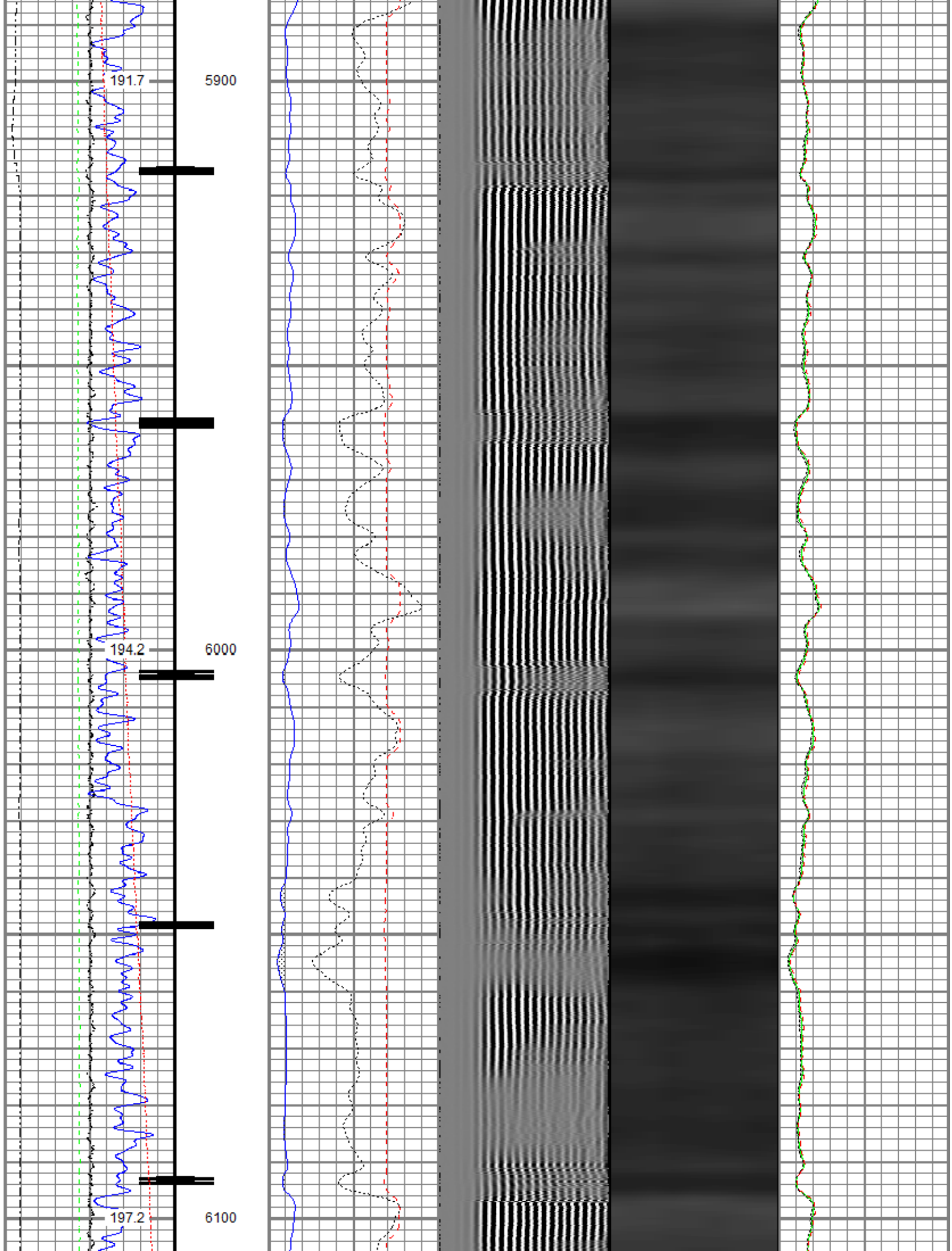


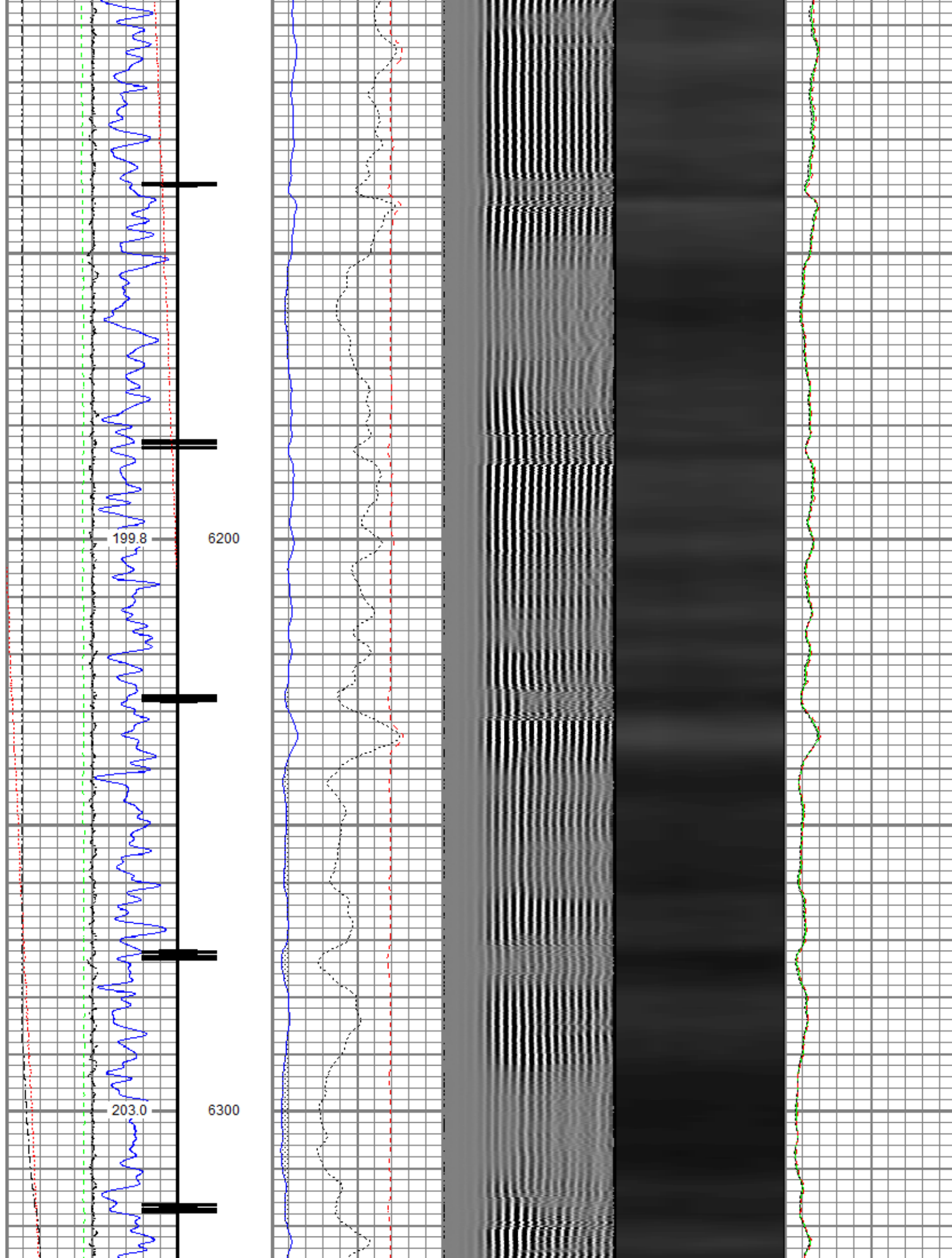


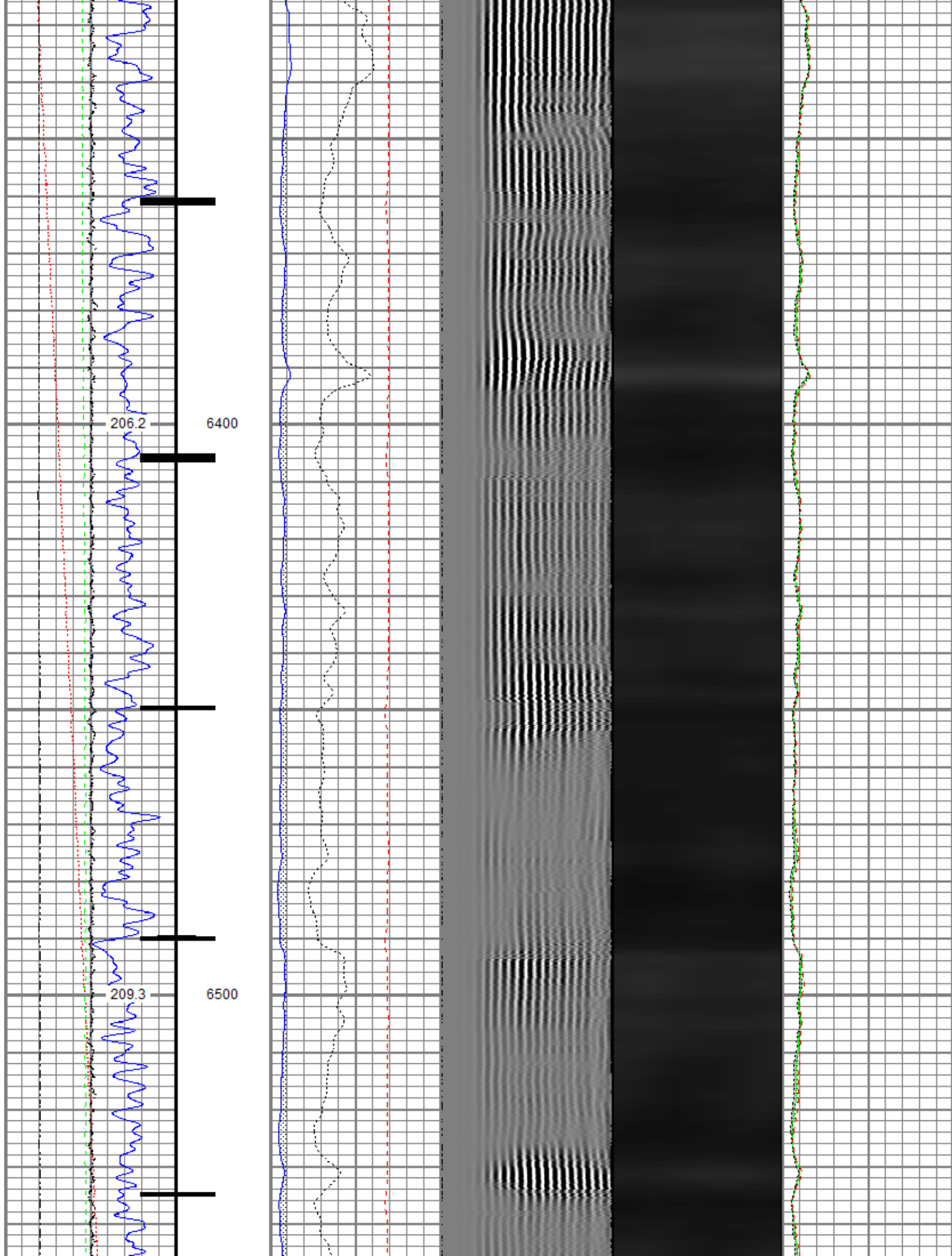


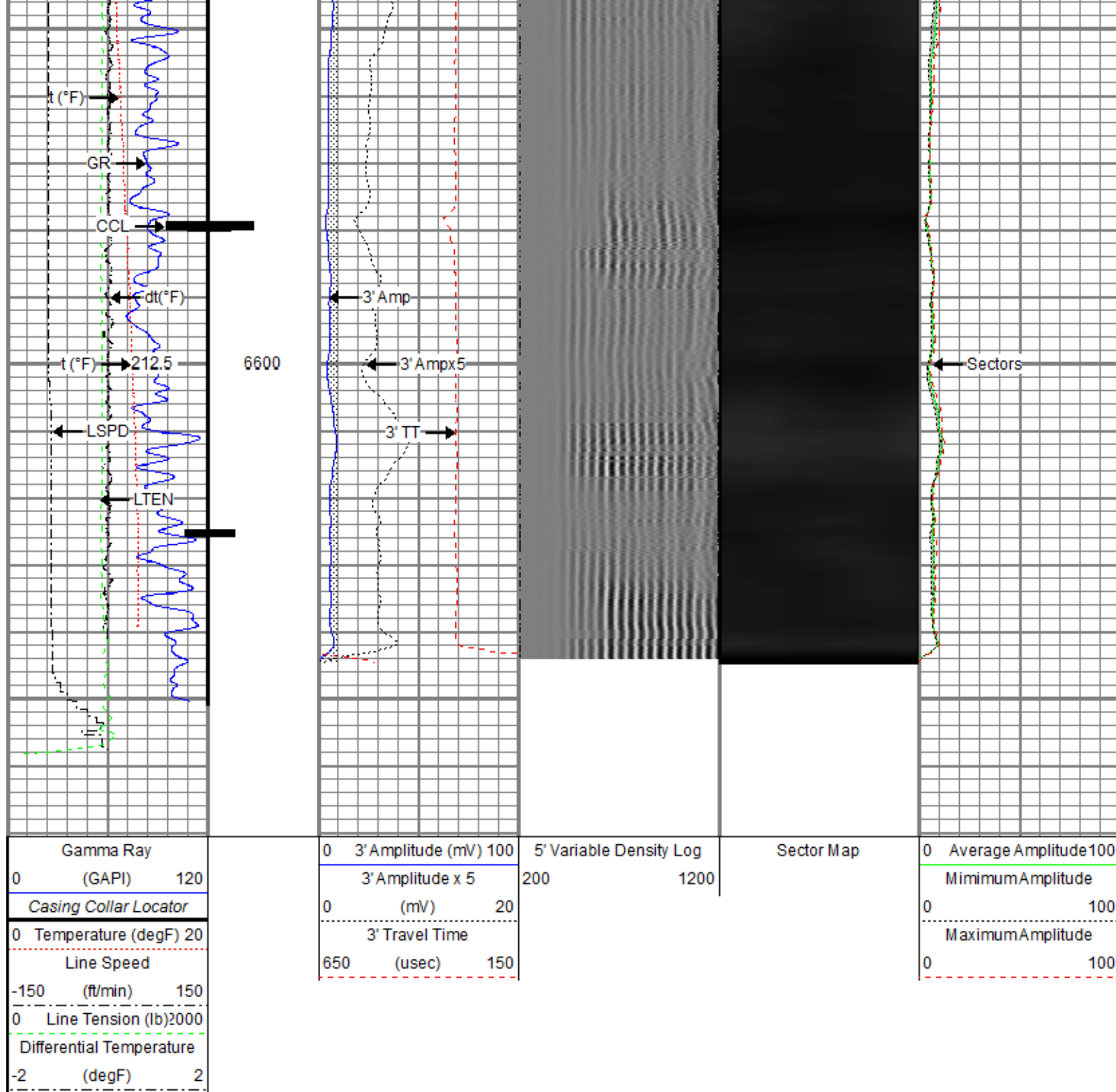




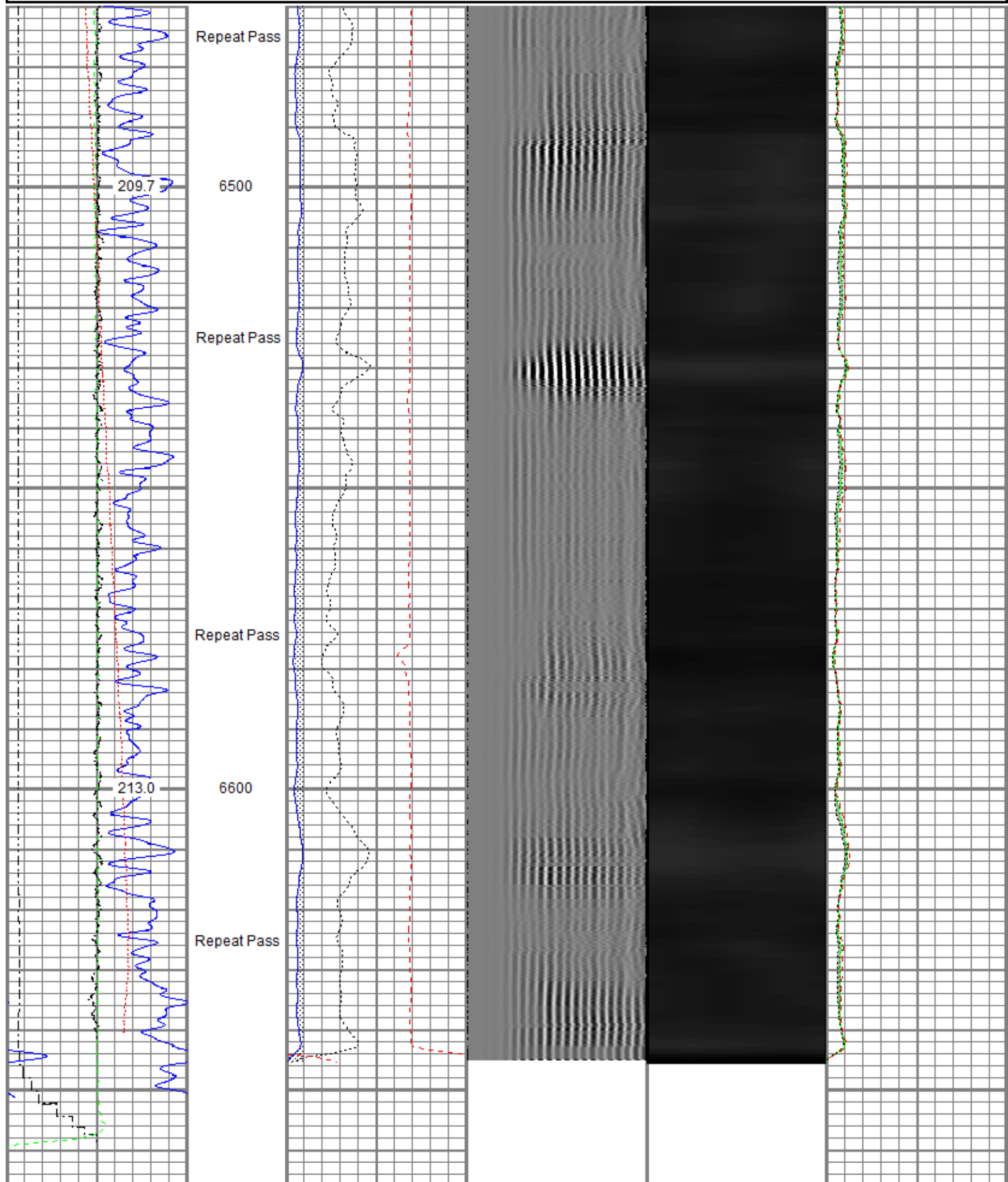




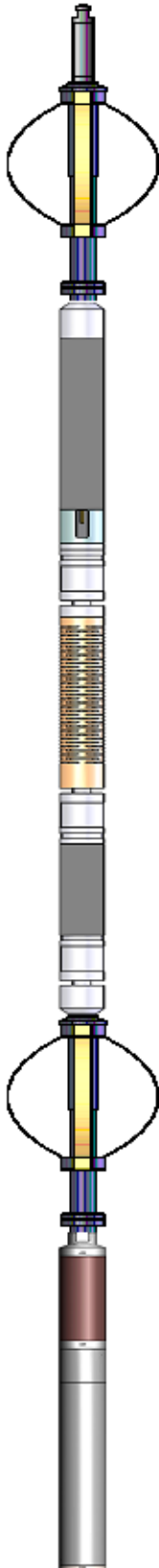
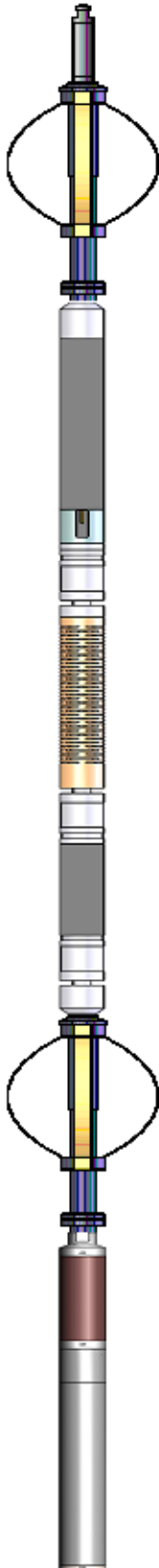


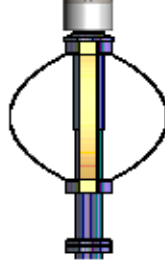


Temperature (degF)	20	0	(mV)	20	0	Maximum Amplitude	100
Line Speed	-150 (ft/min)	150	3" Travel Time	650 (usec)	150	0	100
Line Tension (lb)	2000						
Differential Temperature	-2 (degF)	2					



Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
0 (GAPI) 120		3' Amplitude x 5	200	1200		Minimum Amplitude
0 Temperature (degF) 20	0	(mV) 20			0	100
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)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	17.04					
WVFS8	14.81		Probe Radii-2750 RBT (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS7	14.81					
WVFS6	14.81					
WVFS5	14.81					
WVFS4	14.81					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
HEADVOLT	10.56		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46		Probe GR-CCL-2750 6PB (101001) 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

Dataset: 0512346261_Anadarko_Quarter Circle 24-10HZ_RBL_07-16-18_2800 PSI.db: field/well/run1/pass4
Total length: 23.86 ft
Total weight: 223.60 lb
O.D.: 2.75 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\Anadarko_Quarter Circle 24-10HZ\0512346261_Anadarko_Quarter Circle 24-10HZ_RBL_07-16-18_2800 PSI.db: field/well/run1/pass4
Dataset Pathname pass4
Dataset Creation Mon Jul 16 13:18:24 2018

Gamma Ray Calibration Report

Serial Number: 101001
Tool Model: 2750 6PB
Performed: Sun Nov 12 11:25:32 2017

Calibrator Value: 637.0 GAPI

Background Reading: 100.6 cps
Calibrator Reading: 981.1 cps

Sensitivity: 0.7235 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1308-091
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: 31.528 ft

Master Calibration, performed Mon Jul 16 11:27:45 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.683	0.800	71.921	104.858	0.344
CAL	0.005	0.733				
5'	0.004	0.613	0.800	71.921	116.730	0.310
SUM						
S1	0.004	0.678	0.000	100.000	148.221	-0.548
S2	0.004	0.687	0.000	100.000	146.492	-0.628
S3	0.004	0.691	0.000	100.000	145.542	-0.560
S4	0.004	0.687	0.000	100.000	146.566	-0.641
S5	0.004	0.688	0.000	100.000	146.140	-0.614
S6	0.004	0.692	0.000	100.000	145.408	-0.651
S7	0.004	0.688	0.000	100.000	146.254	-0.628
S8	0.004	0.689	0.000	100.000	145.986	-0.645

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.005	0.733	1.000	0.000

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.004	0.000	0.000
5'	0.004	0.000	-0.000
SUM			
S1	0.004	0.000	-0.000
S2	0.004	0.000	0.000
S3	0.004	0.000	0.000
S4	0.004	0.000	-0.000
S5	0.004	0.000	-0.000
S6	0.005	0.000	-0.000
S7	0.004	0.000	0.000
S8	0.005	0.000	-0.000

Temperature Calibration Report

Serial Number: FW1308-091
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:50:54 2017

	Reference	Reading
Low Reference:	100.00 degF	104.72 degF
High Reference:	350.00 degF	392.24 degF

Gain: 0.87
Offset: 8.94
Delta Spacing: 1



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Quarter Circle 24-10HZ
Field	Wattenberg
County	Weld
State	Colorado