



County Weld State Colorado

K.B.	5005
D.F.	---
G.L.	4979

ate	7/1-JAN-2018
-----	--------------

Account Number	1333
----------------	------

Depth Driller	13163 FT
---------------	----------

Depth Logger 6775 FT

Bottom Logged Interval	6772 FT
------------------------	---------

Top Log Interval	Surface
------------------	---------

Pen Hole Size 7.875"

Water	
Fluid	

Density / Viscosity	8.34 lb/gal
---------------------	-------------

Recorded Temp	21.3°C
---------------	--------

Estimated amount T on	\$201.00
Actual received comp.	\$210.10

stimulated cell line 1 up	see Log
---------------------------	---------

Time Name Bottom	
	0:30
Willie Well Ready	KOA

Time Logged on Bottom	9:20
Time Logged on Bottom	11:20

equipment number	HL-363
------------------	--------

Location	Fort Lupton, Colorado
----------	-----------------------

Recorded By	Carlos Sisine
-------------	---------------

Witnessed By	Mr. Kyle Car
--------------	--------------

Borehole Record

Run Number	Bit	From	To
------------	-----	------	----

--	--	--	--

--	--	--	--

--	--	--	--

Rating Record	Size (in)	W/qt (lbs/ft)
---------------	-----------	---------------

Surface Casing	9 5/8	36
----------------	-------	----

intermediate #1	5 1/2	17	
-----------------	-------	----	--

intermediate #2			
-----------------	--	--	--


per		
-----	--	--

[illegible]

<<< 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.

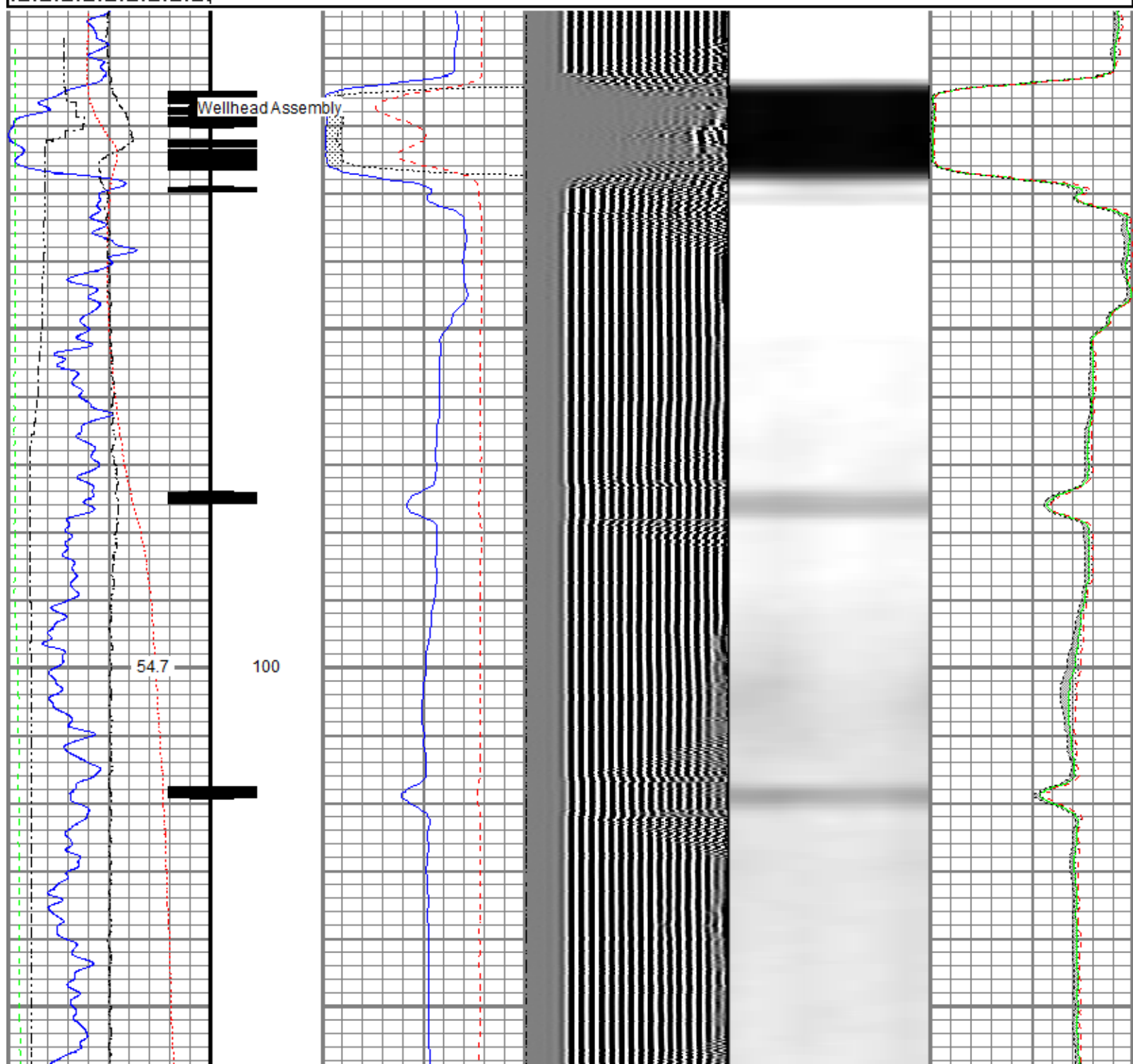
Comments
<p>Log ran as per customer request Depth referenced to Kelly Bushing of 26 FT Adjusted +4 FT to correlate with Kelly Bushing Gauge Ring/Junk Basket ran to 8055 FT with no debris Log ran from just above WRBP Recorded with 2800 PSI Surface Induced Pressure Logging tools were clean and free of any debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

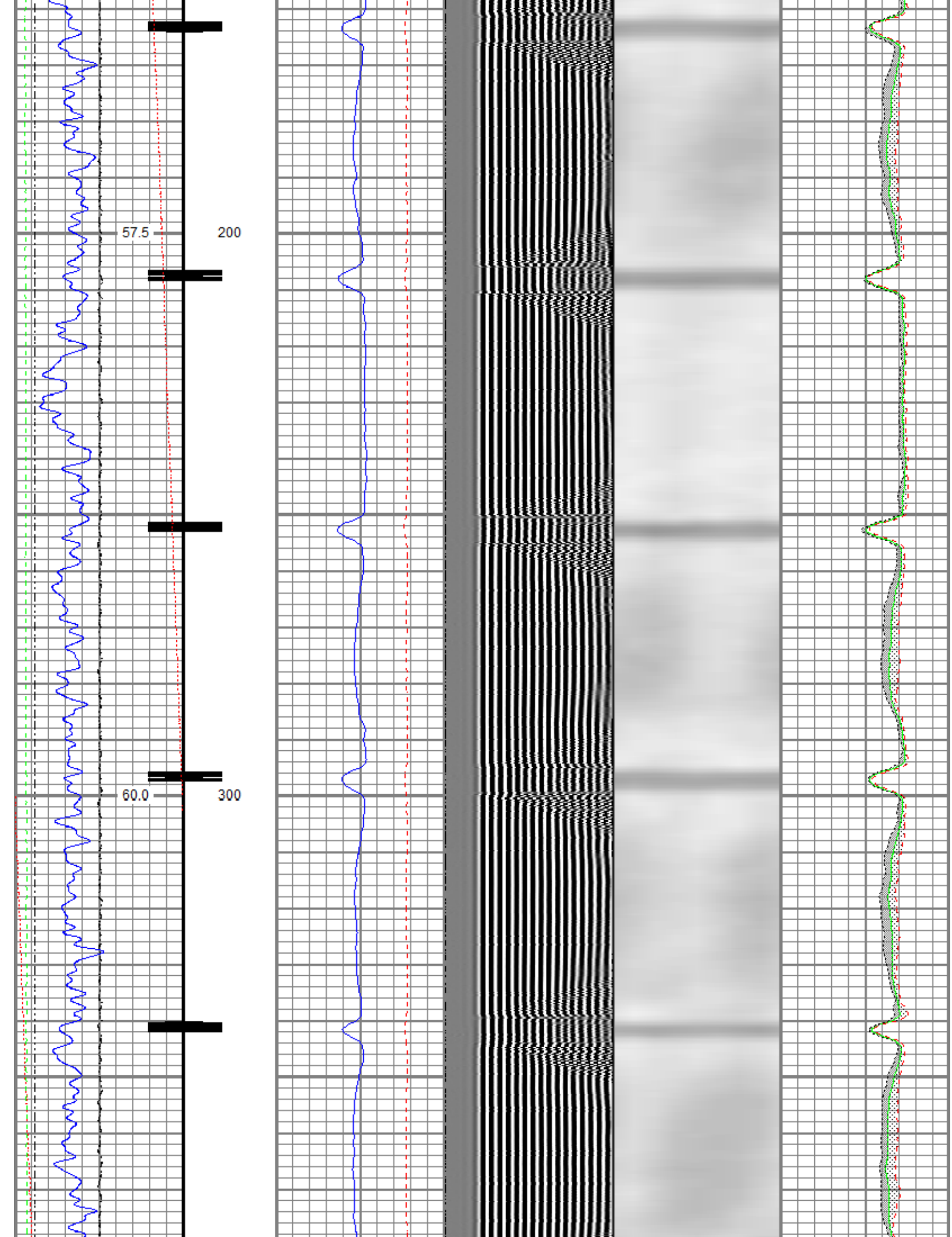
 **RELIANCE**

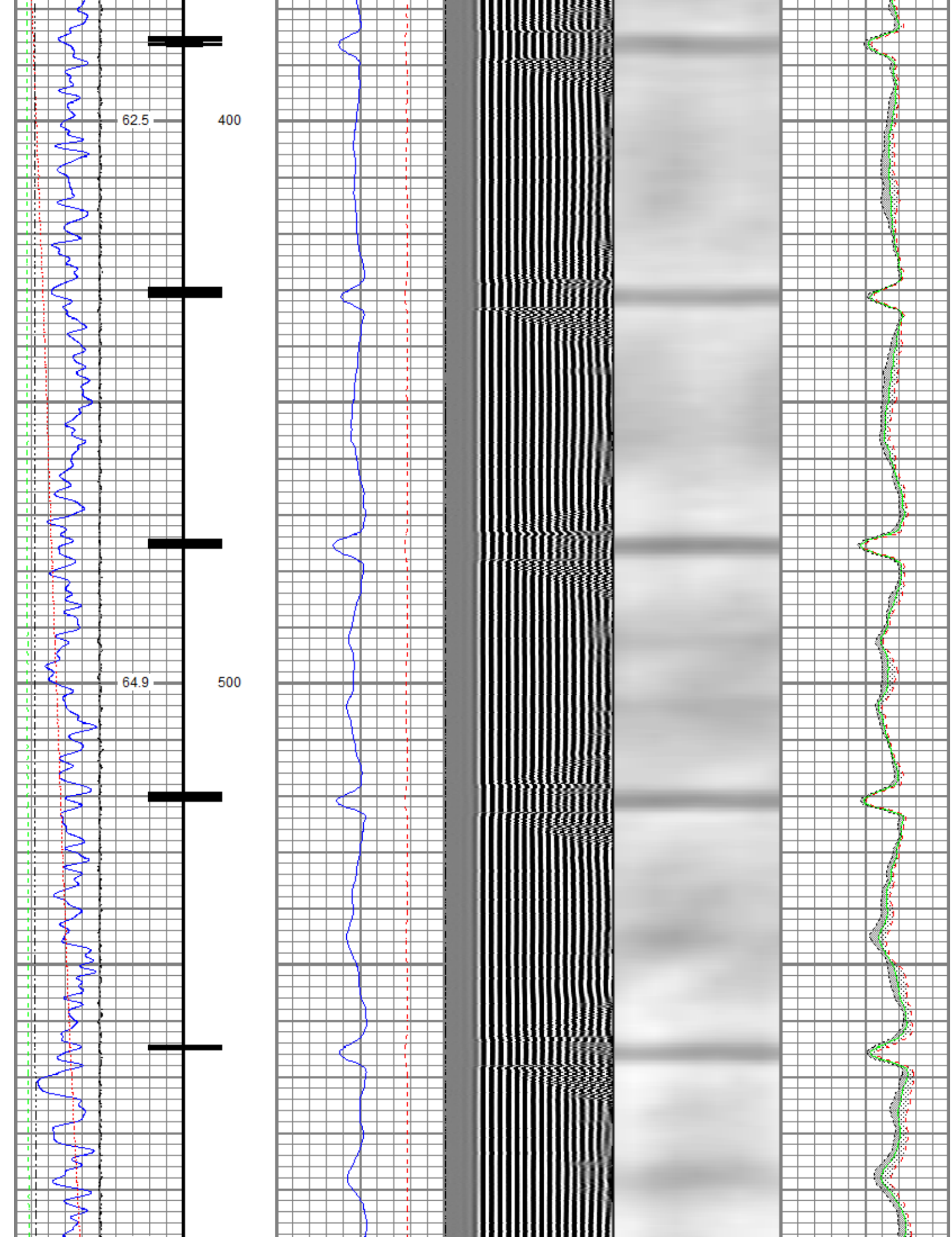
Recorded With 2800 PSI Surface Induced Pressure

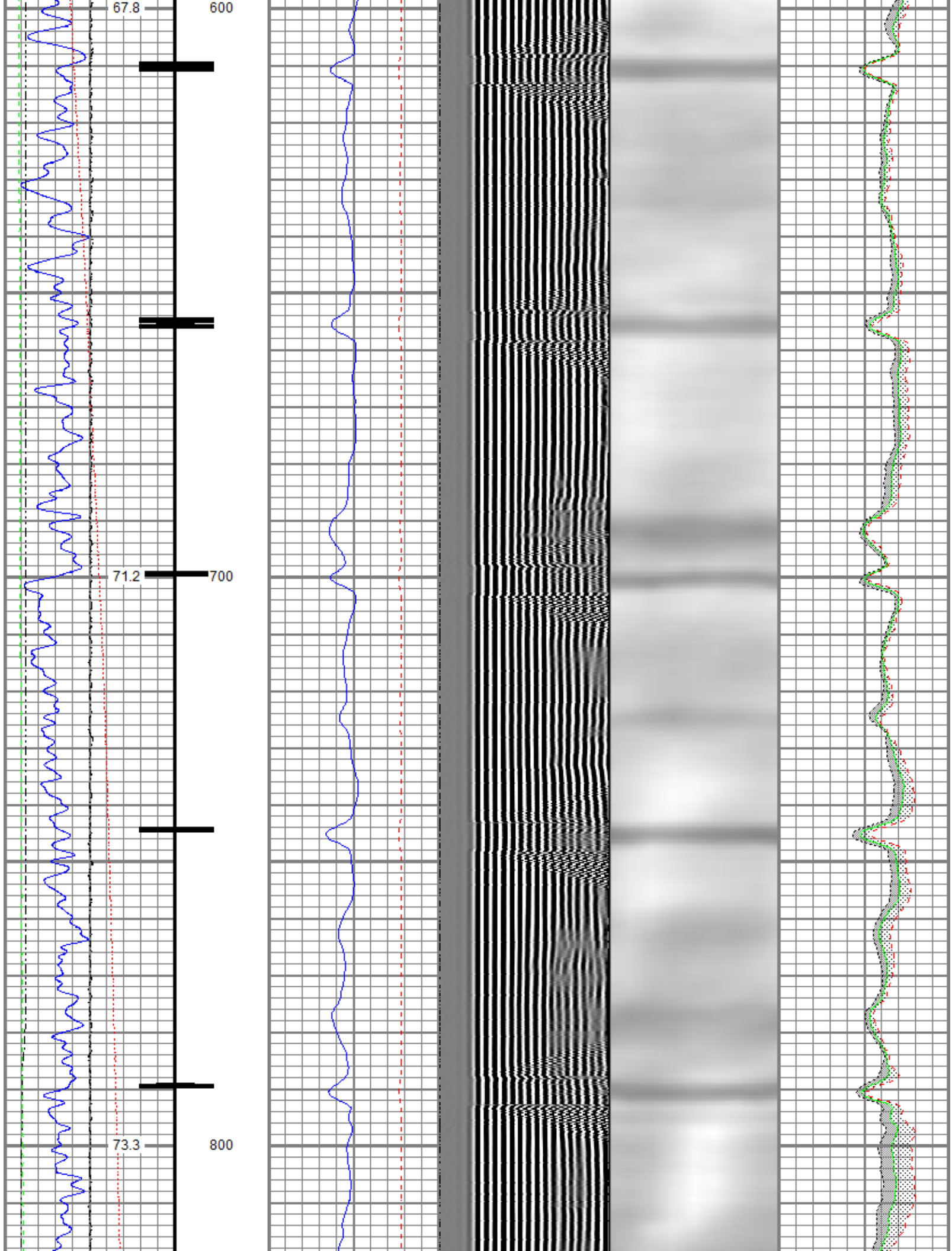
Database File anadarko_borough 26c-17hz\processed_0512345231_anadarko_borough 26c-17hz_rbl_01-17-18.db
 Dataset Pathname pass4.1
 Presentation Format ros_radri
 Dataset Creation Wed Jan 17 10:44:40 2018
 Charted by Depth in Feet scaled 1:240

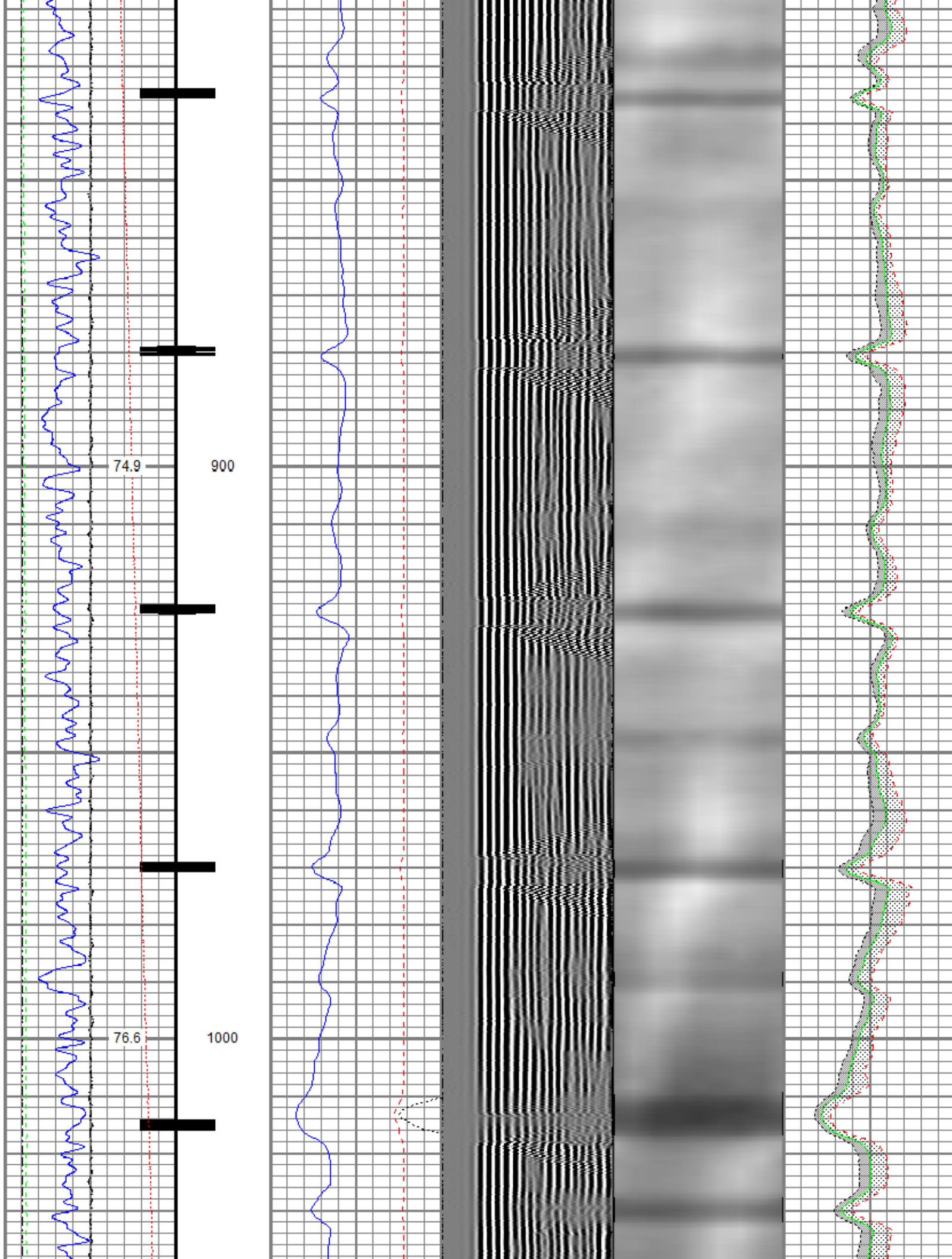
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(u sec) 150			0	100
(ft/min) 150						
Line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

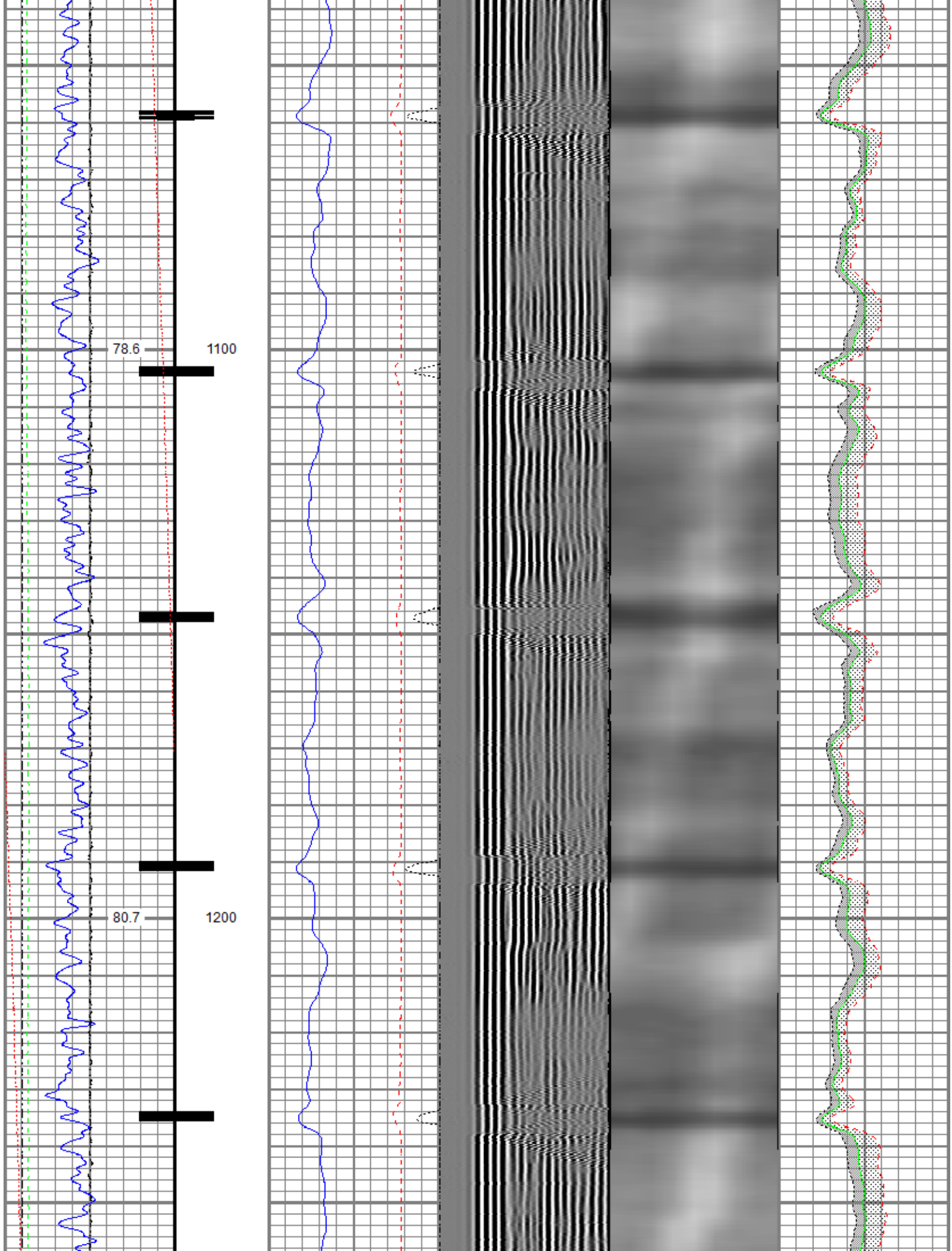


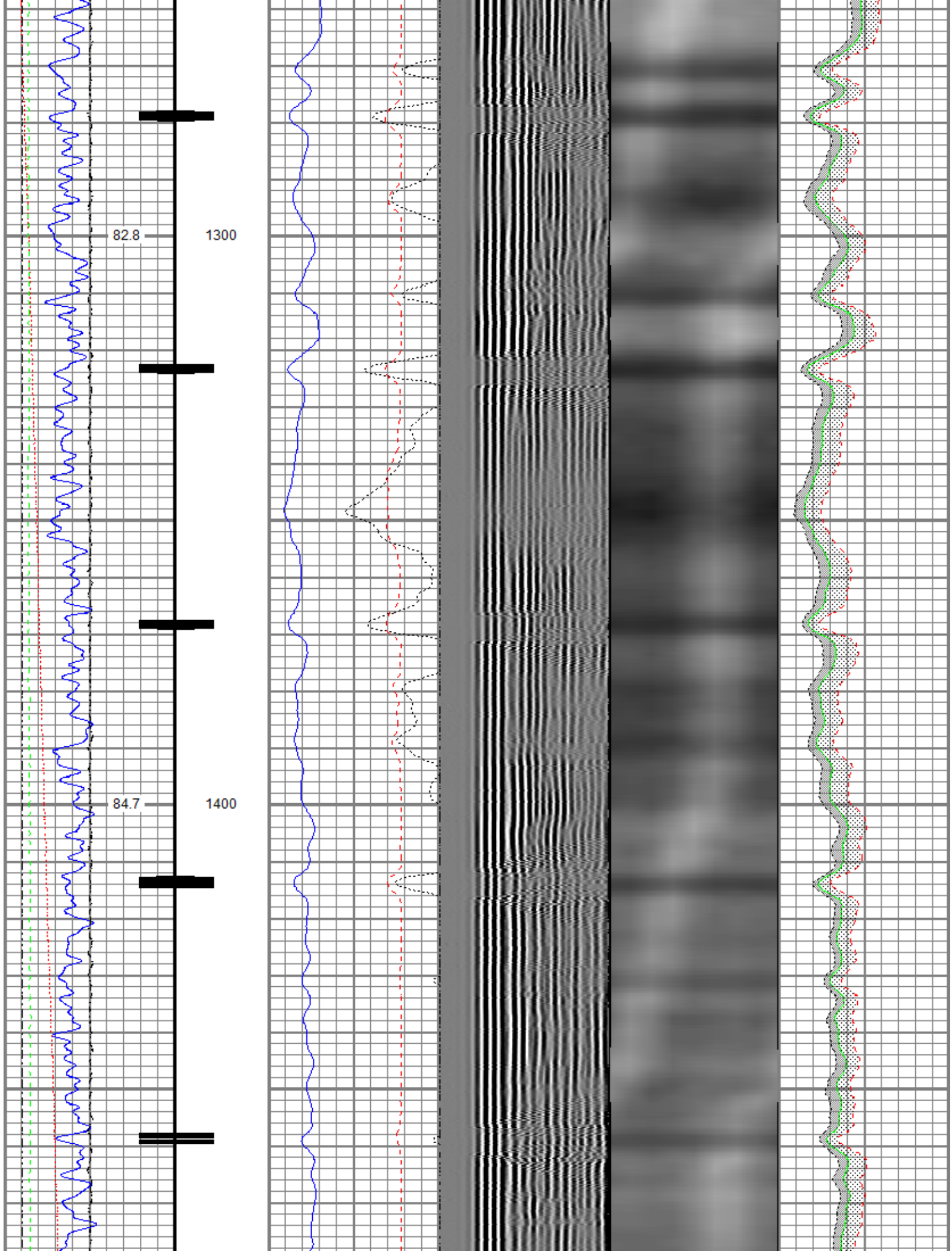


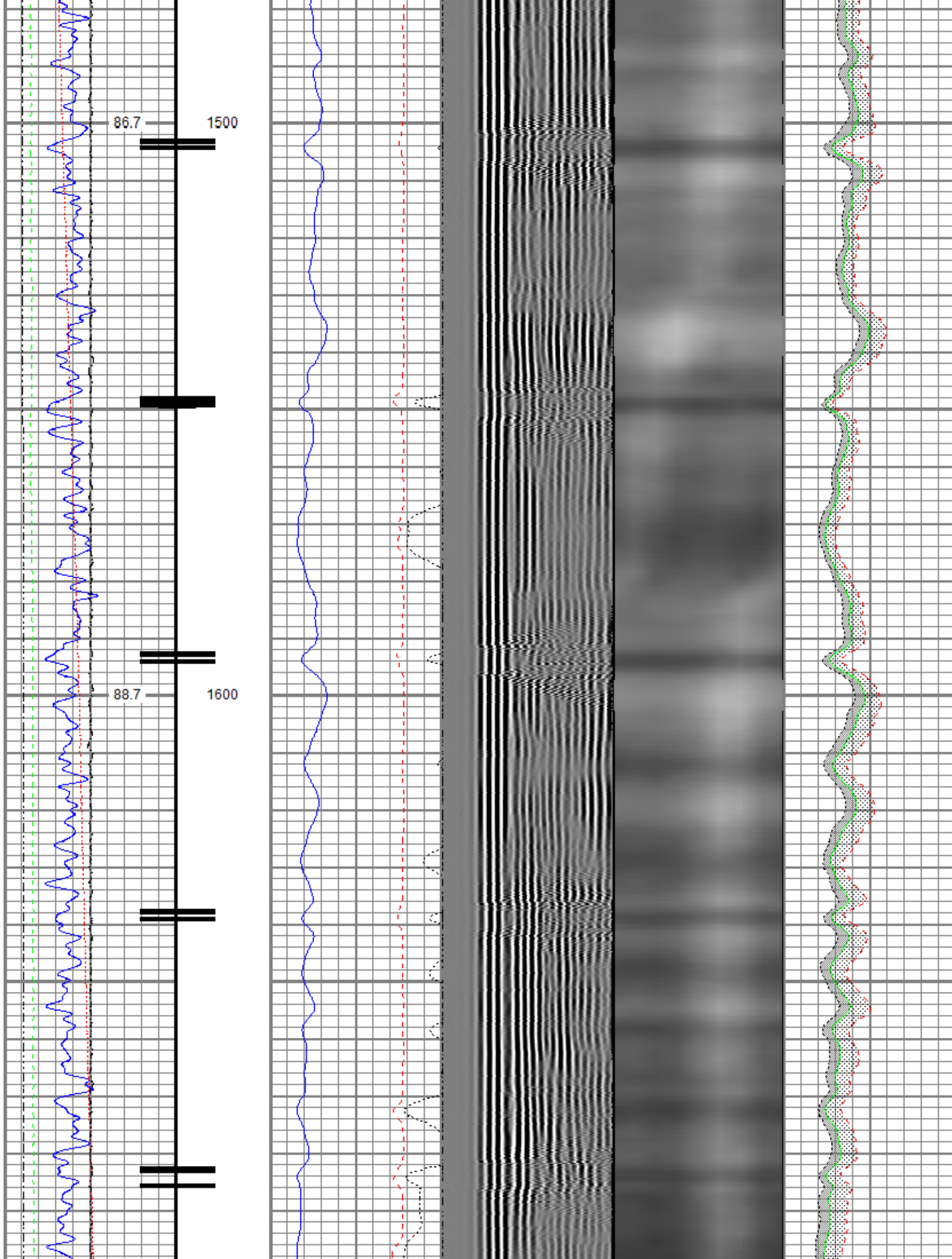


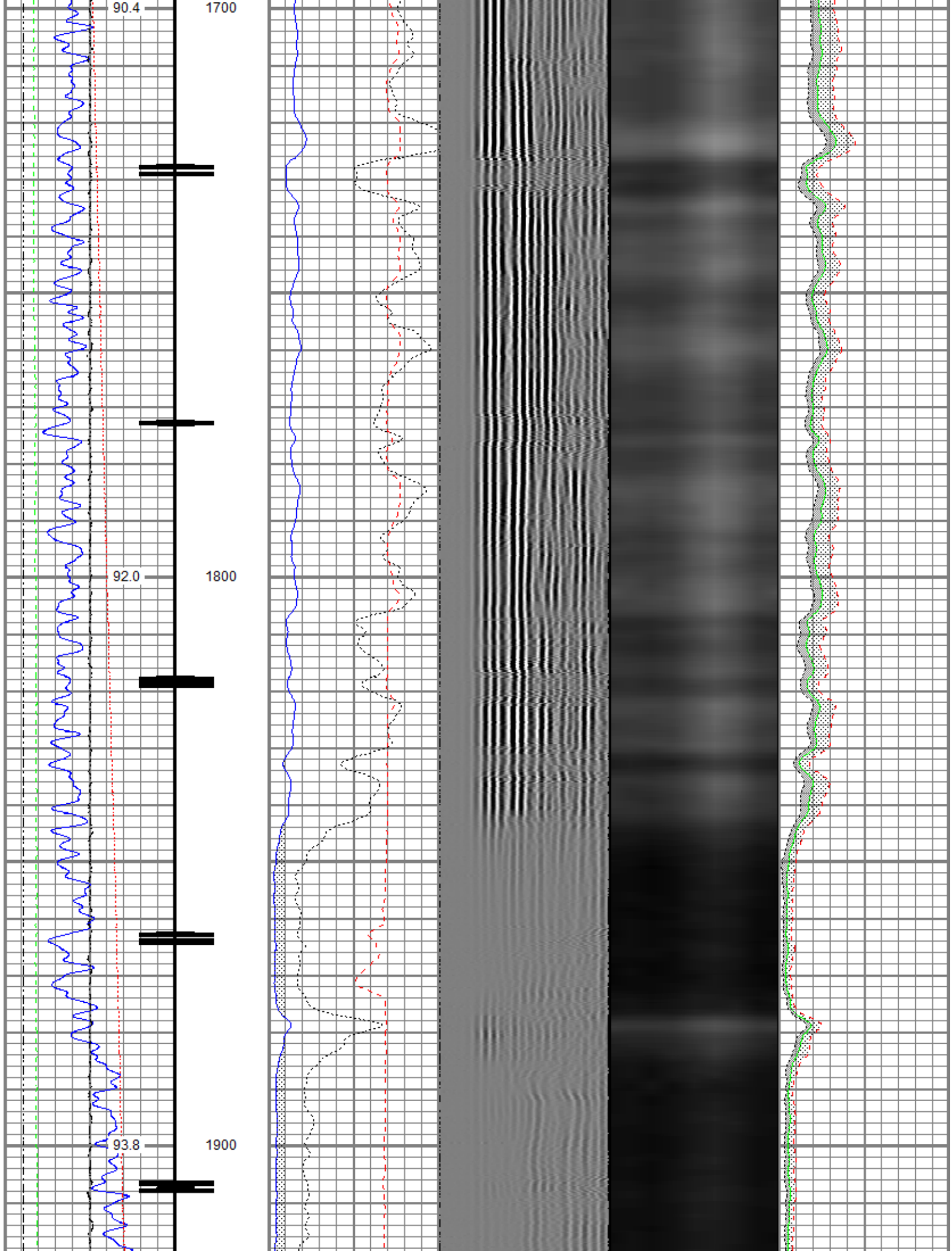


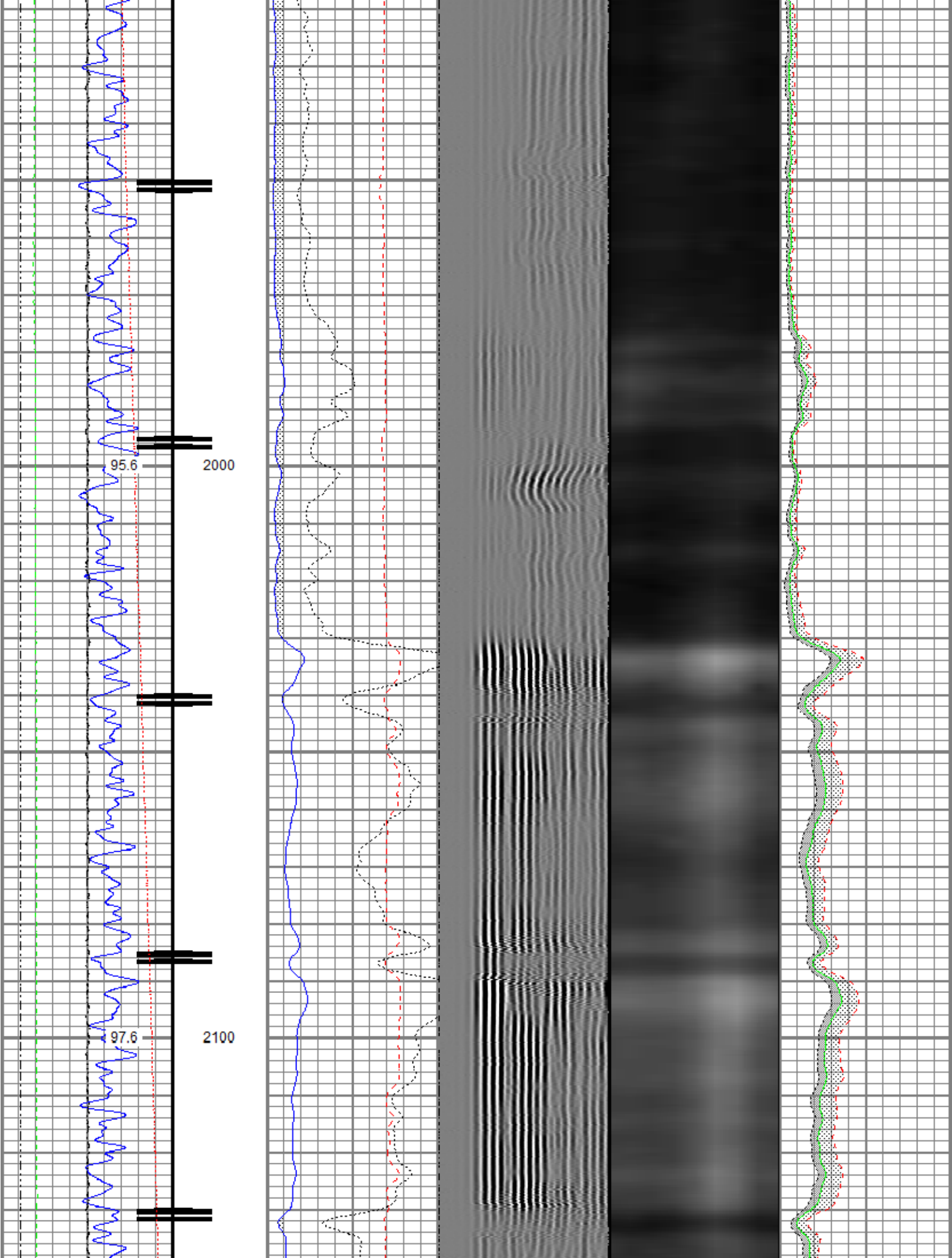


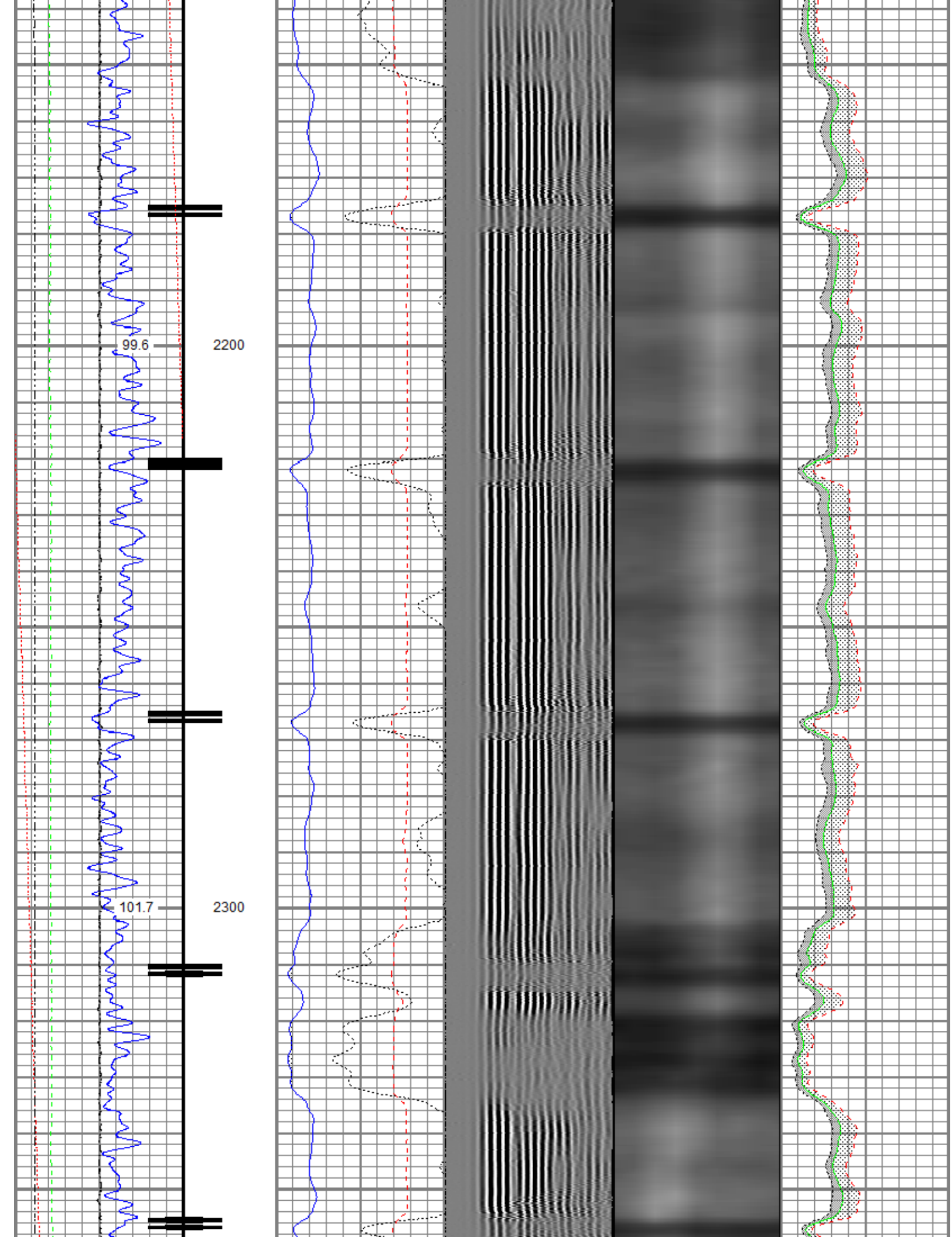


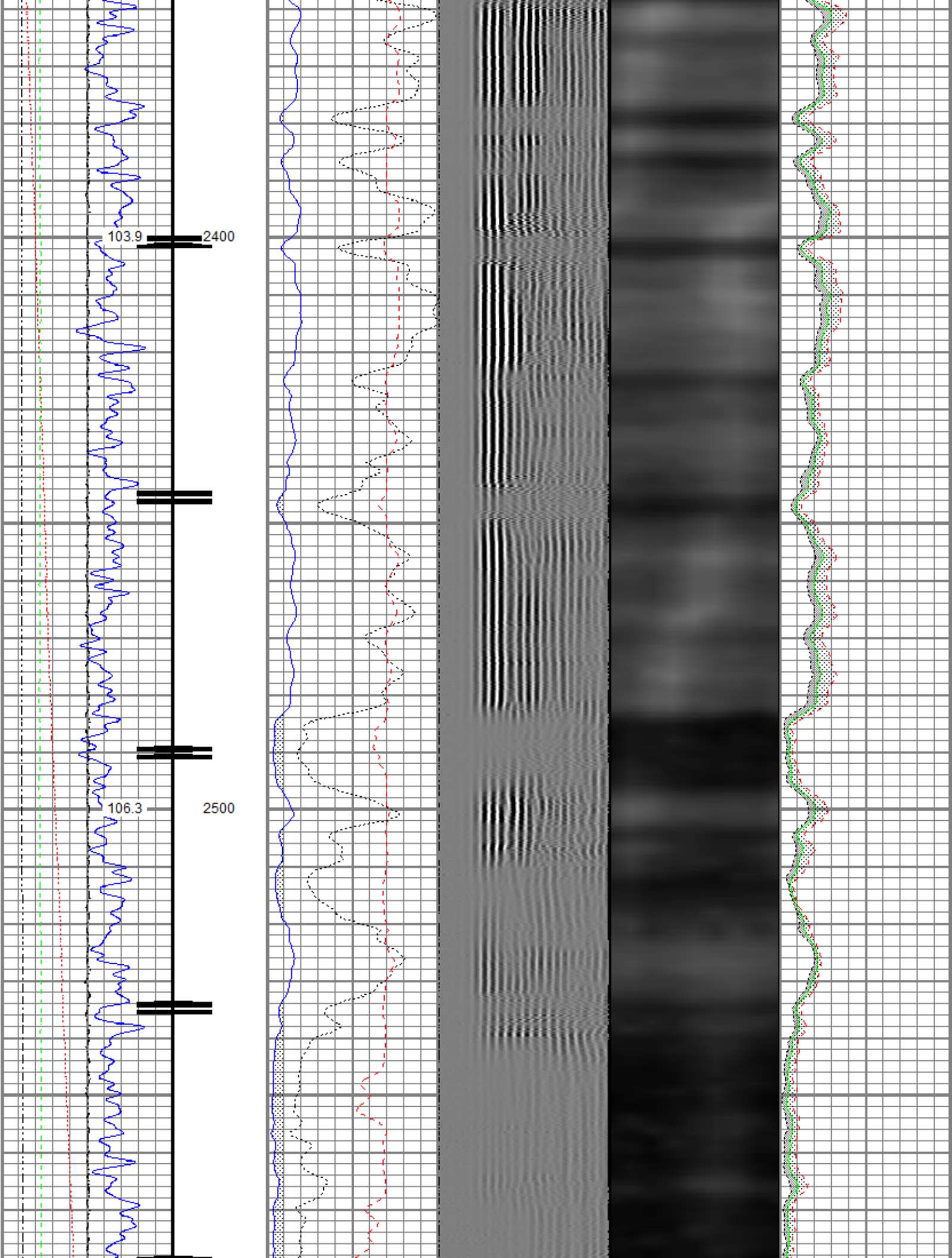


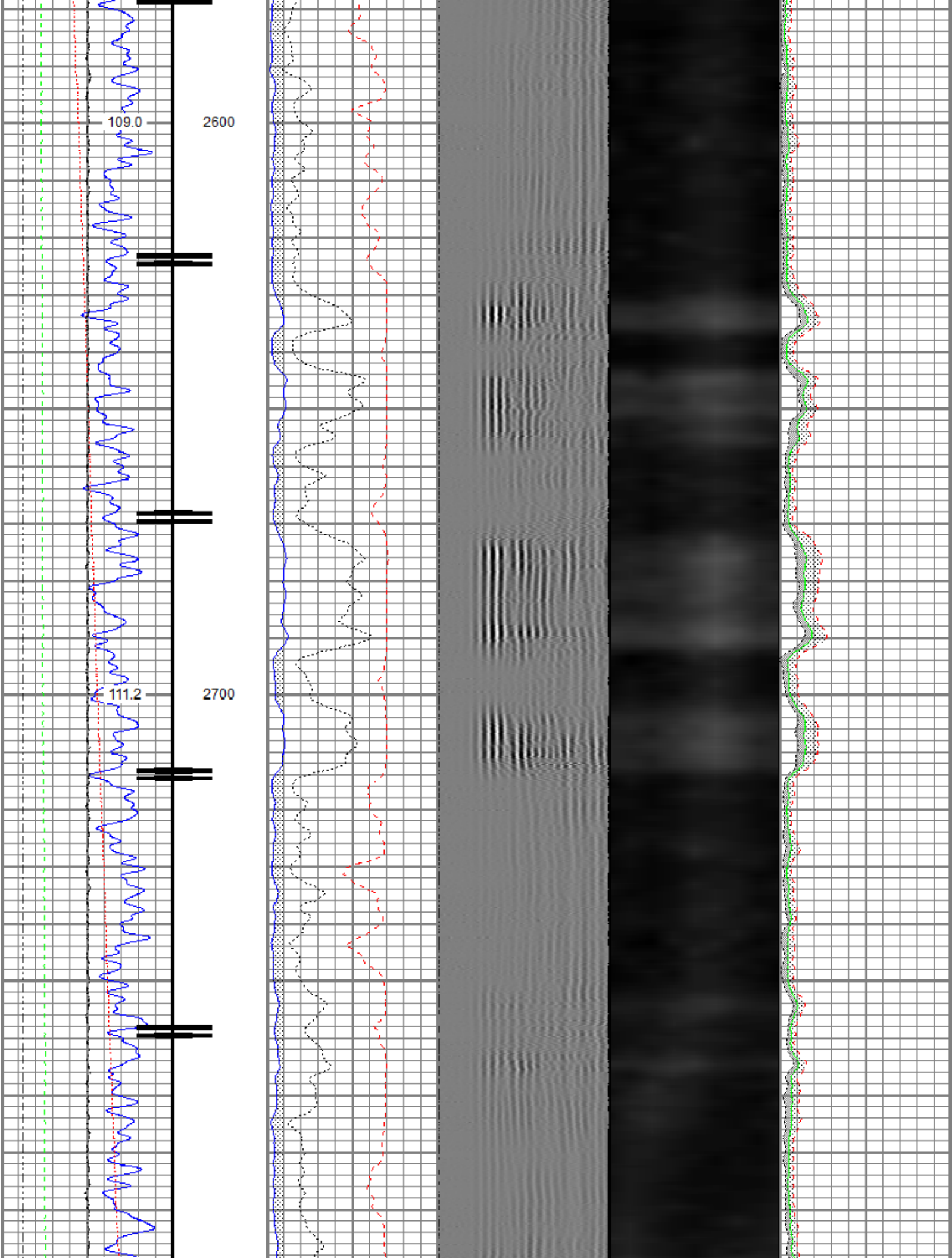


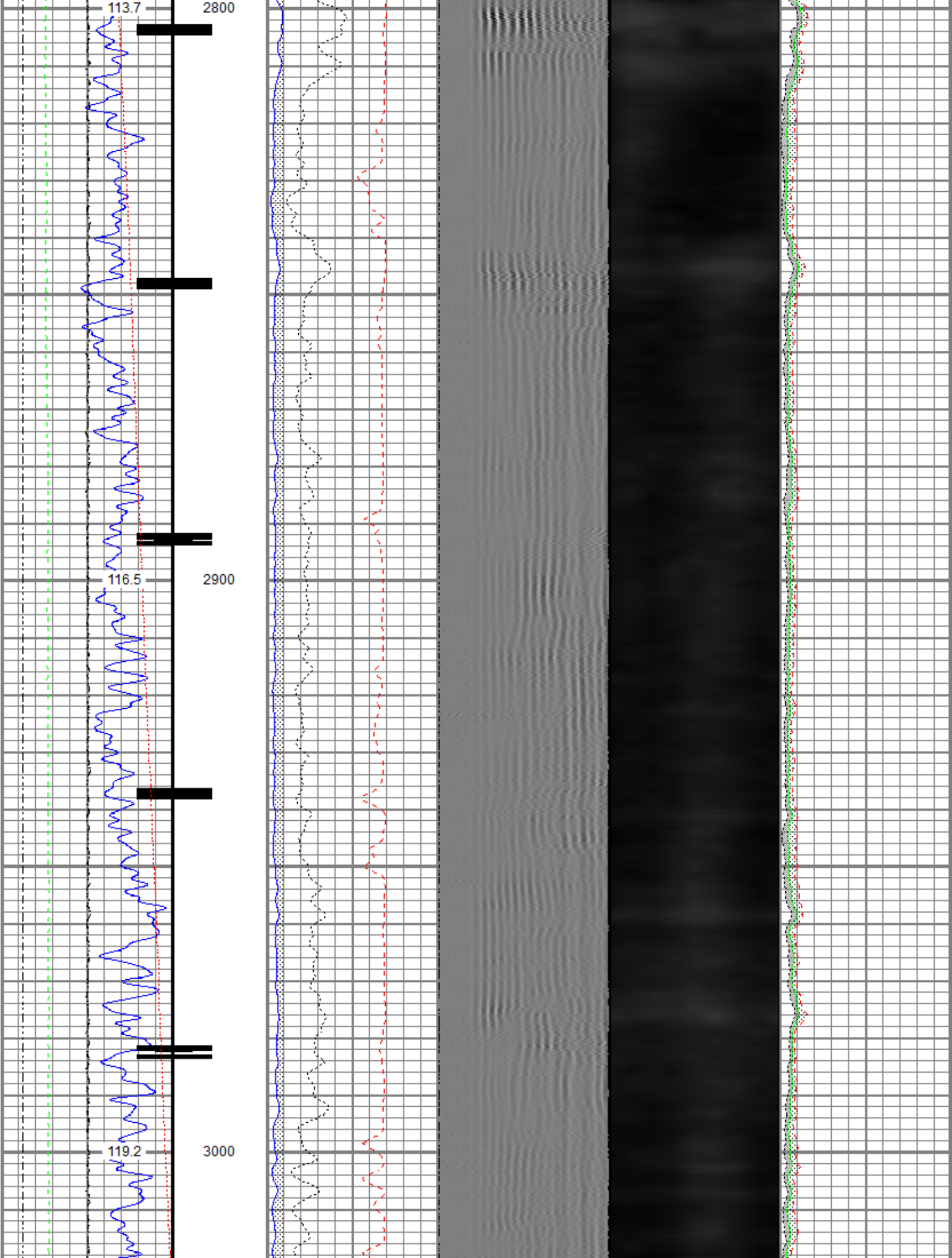


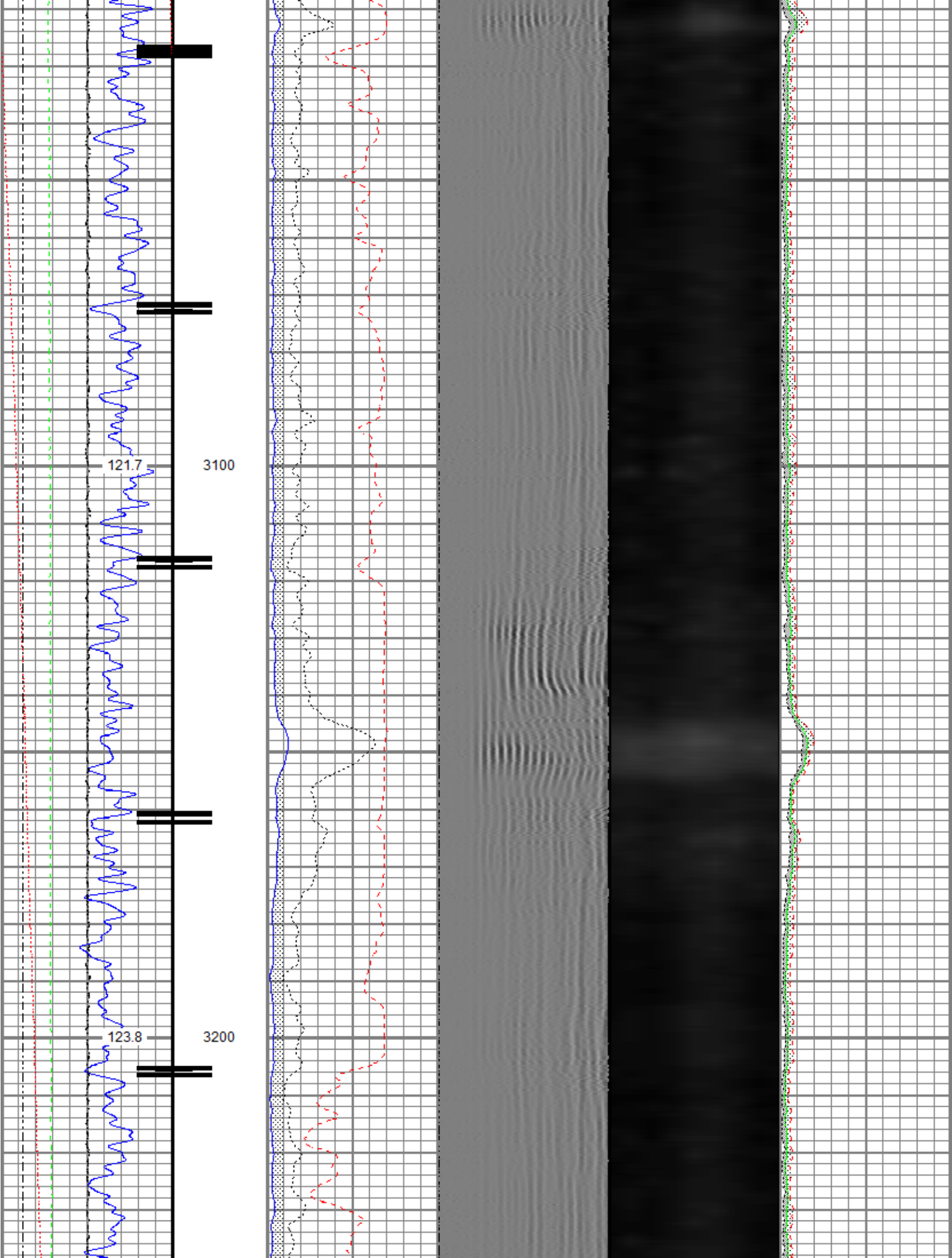


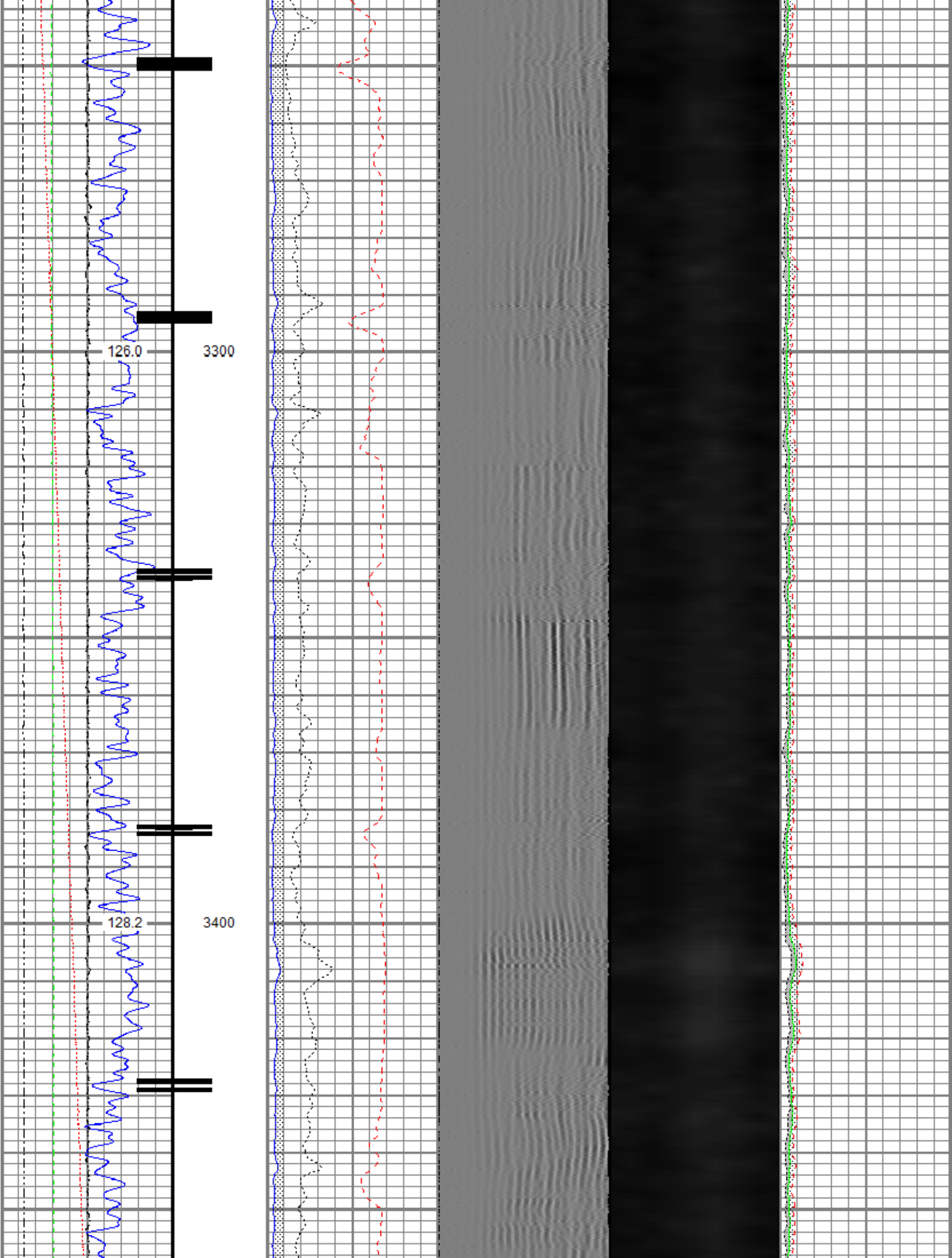


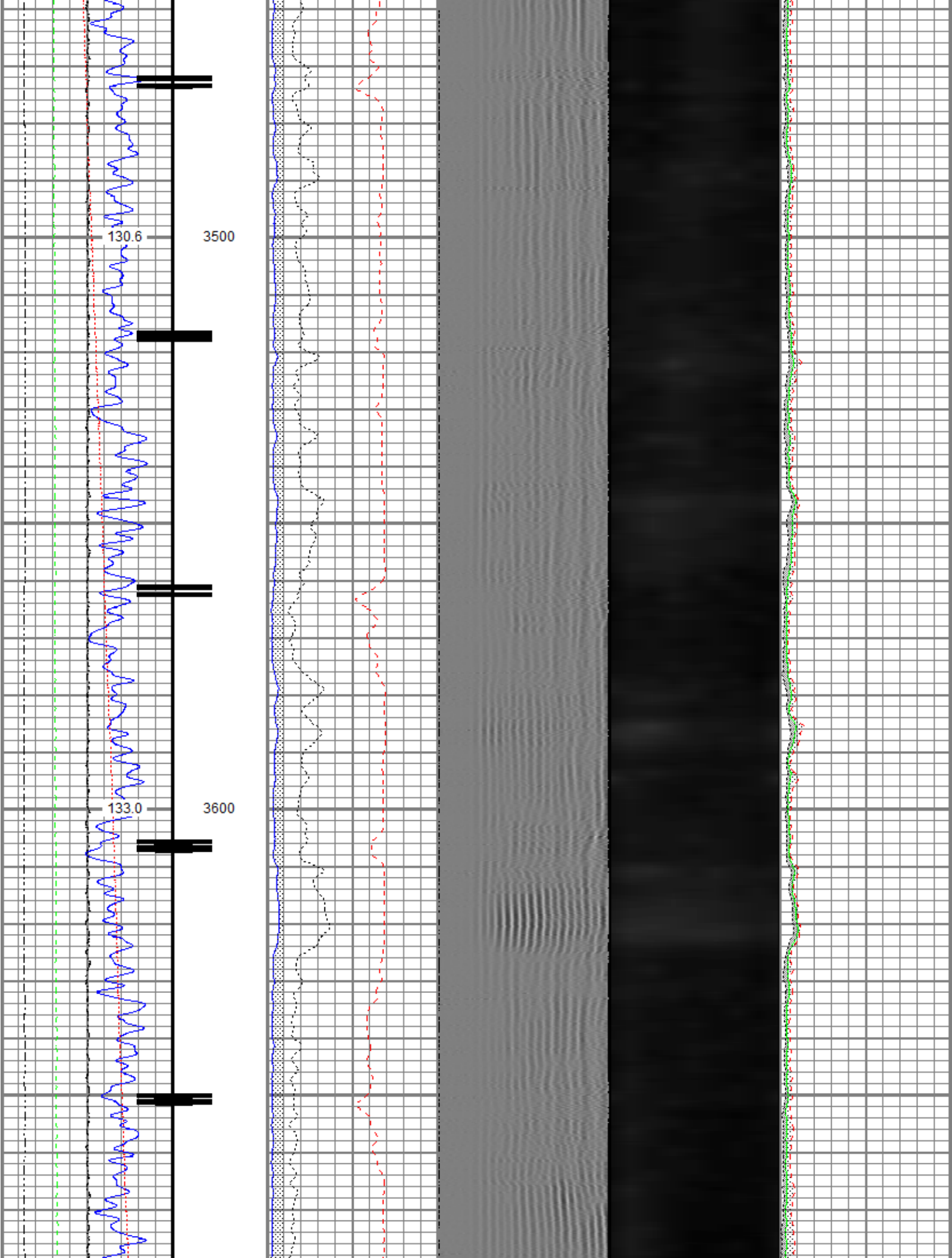


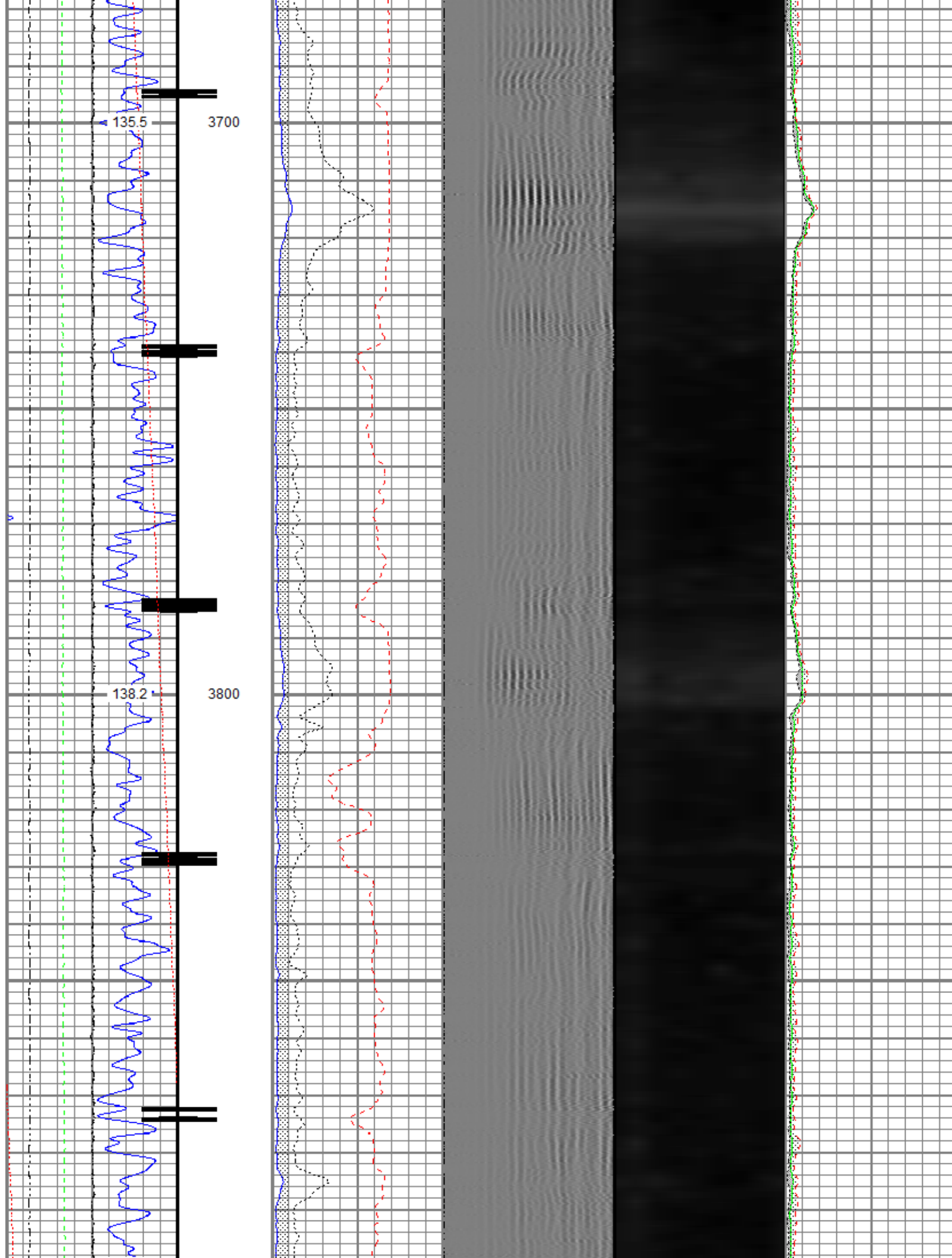


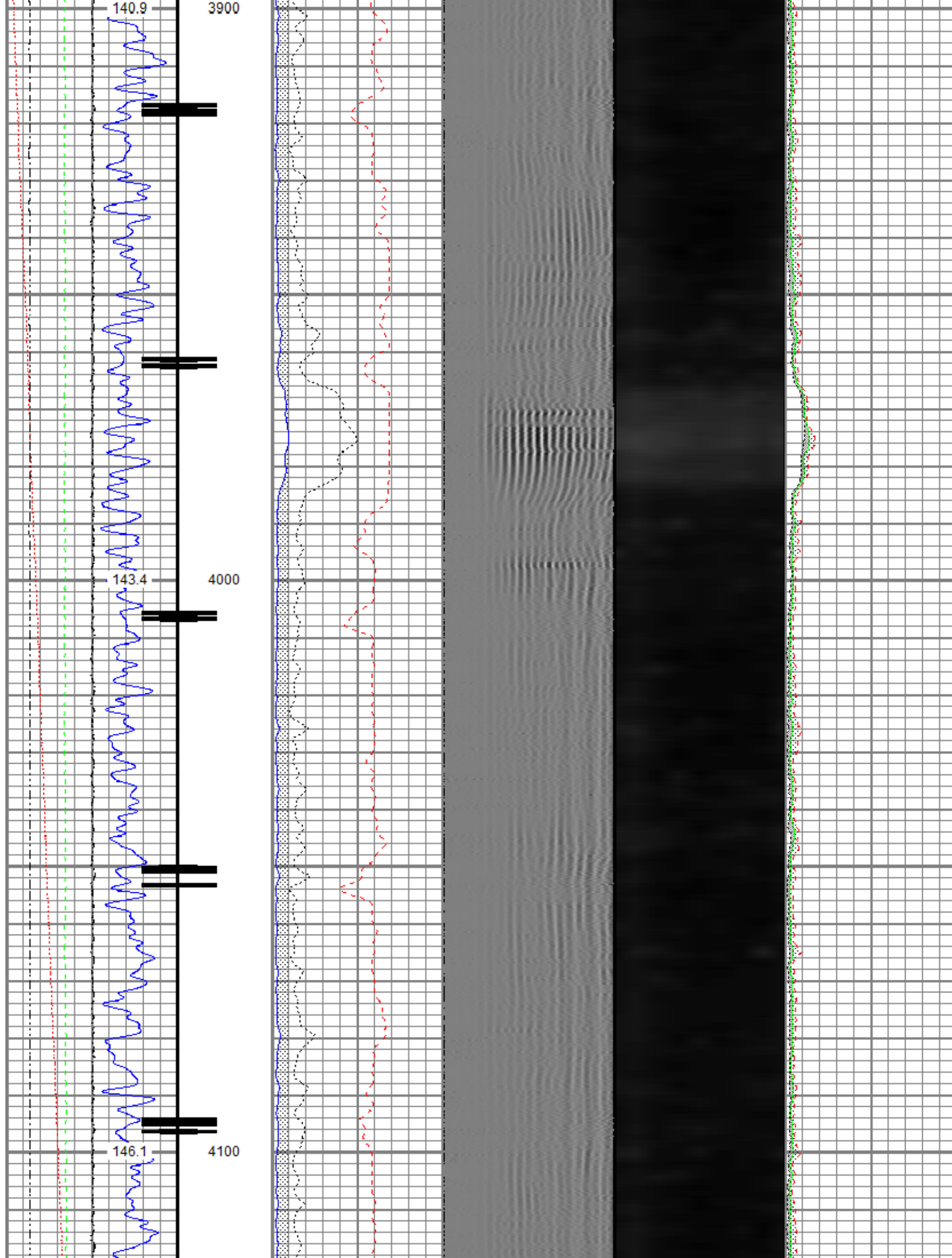


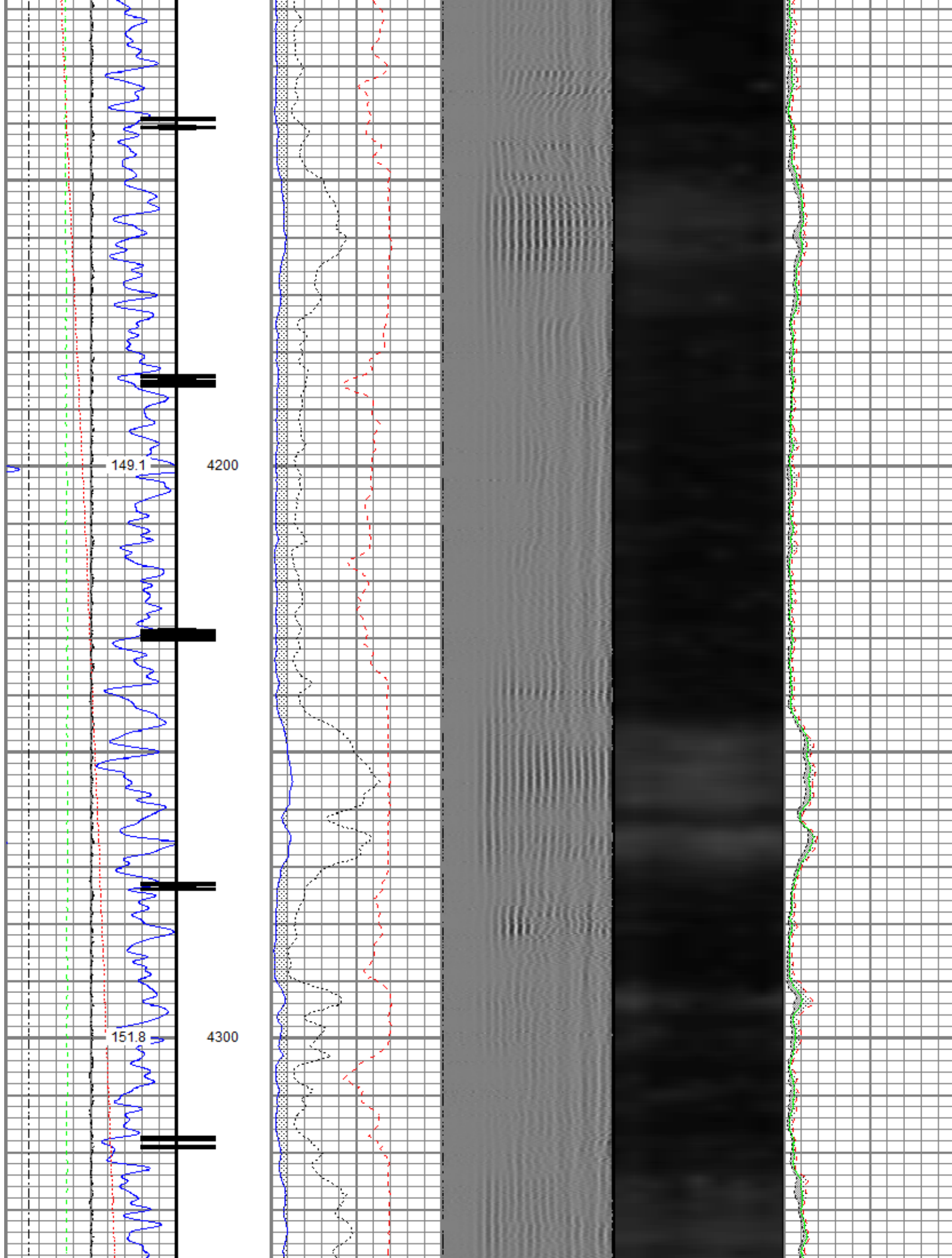


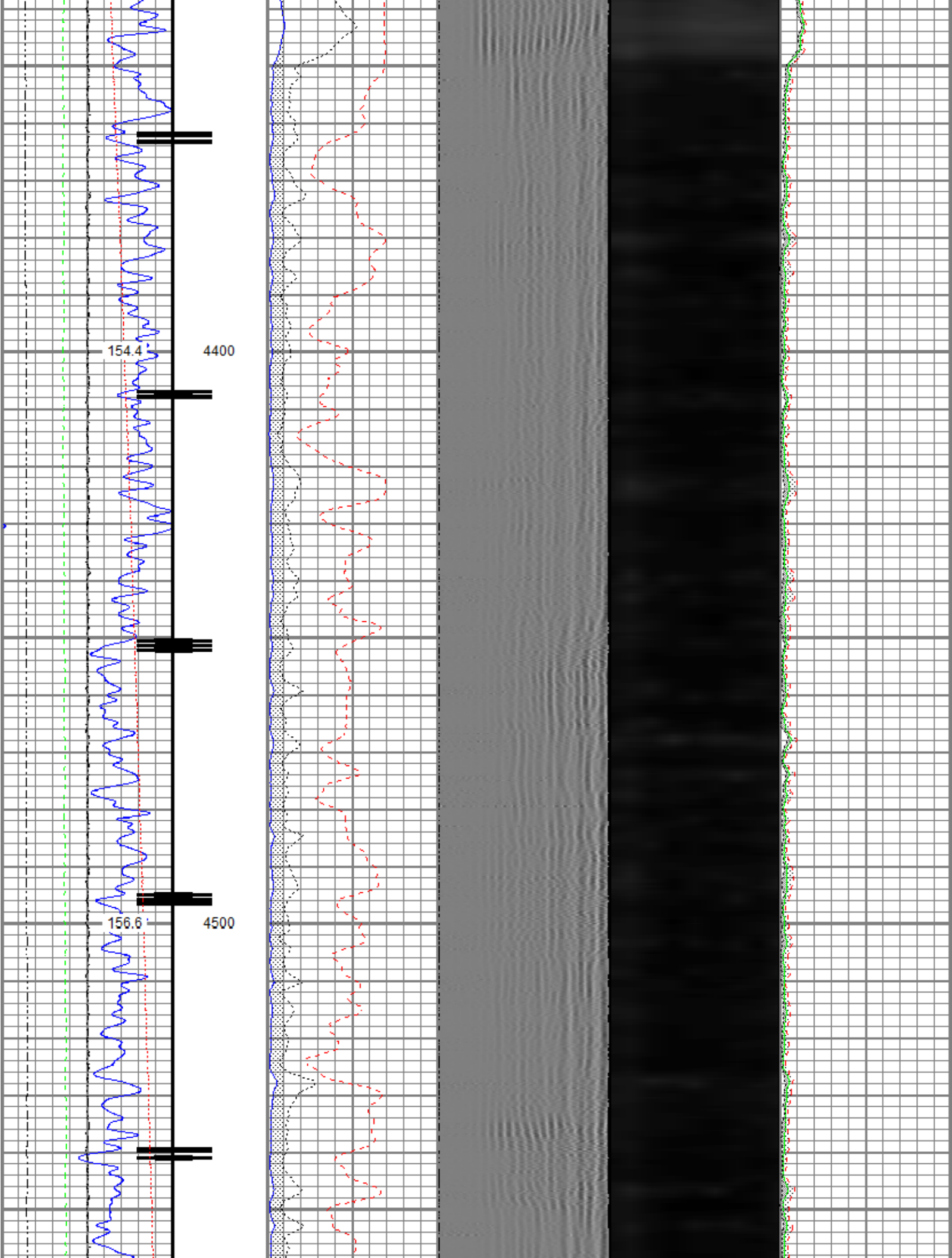


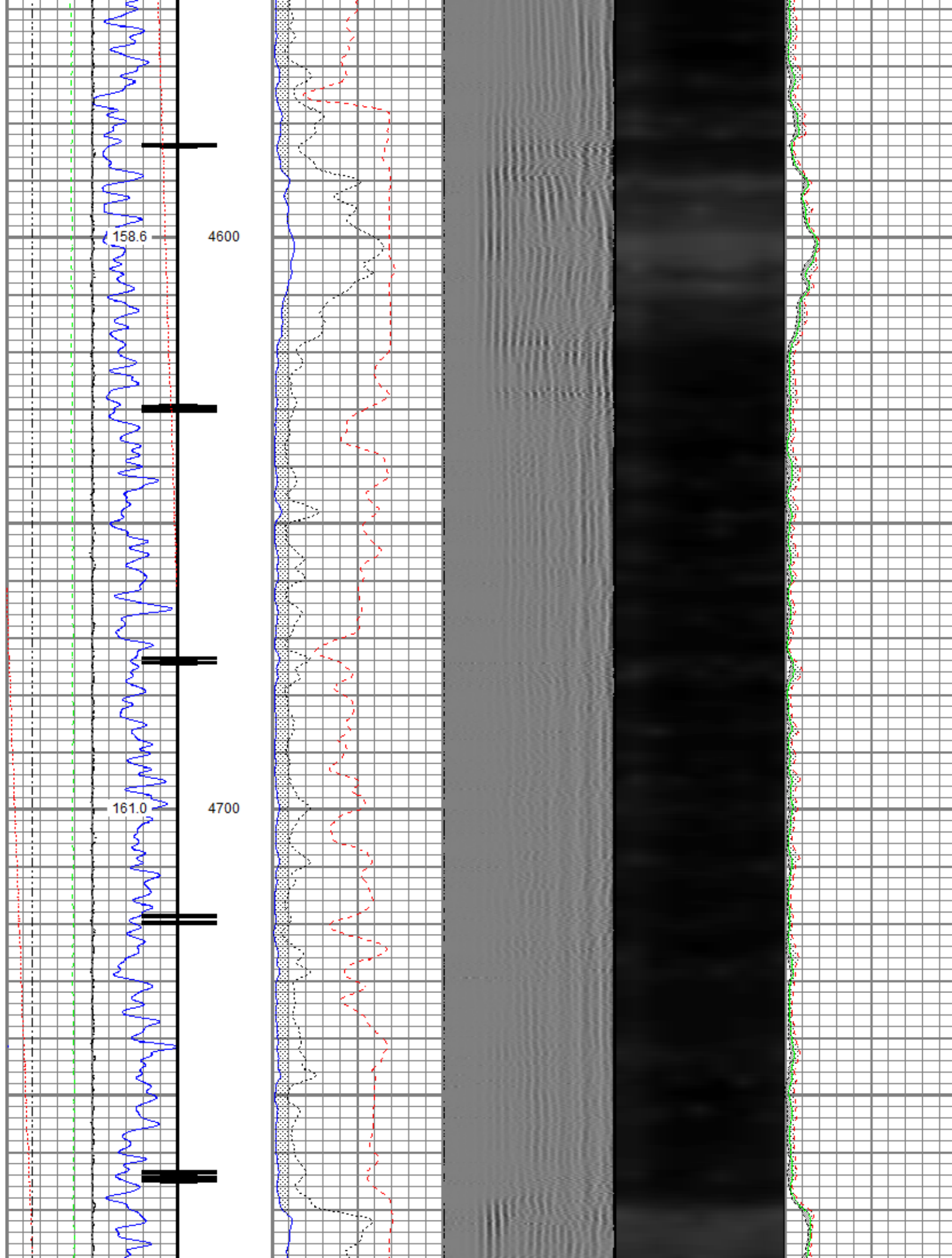


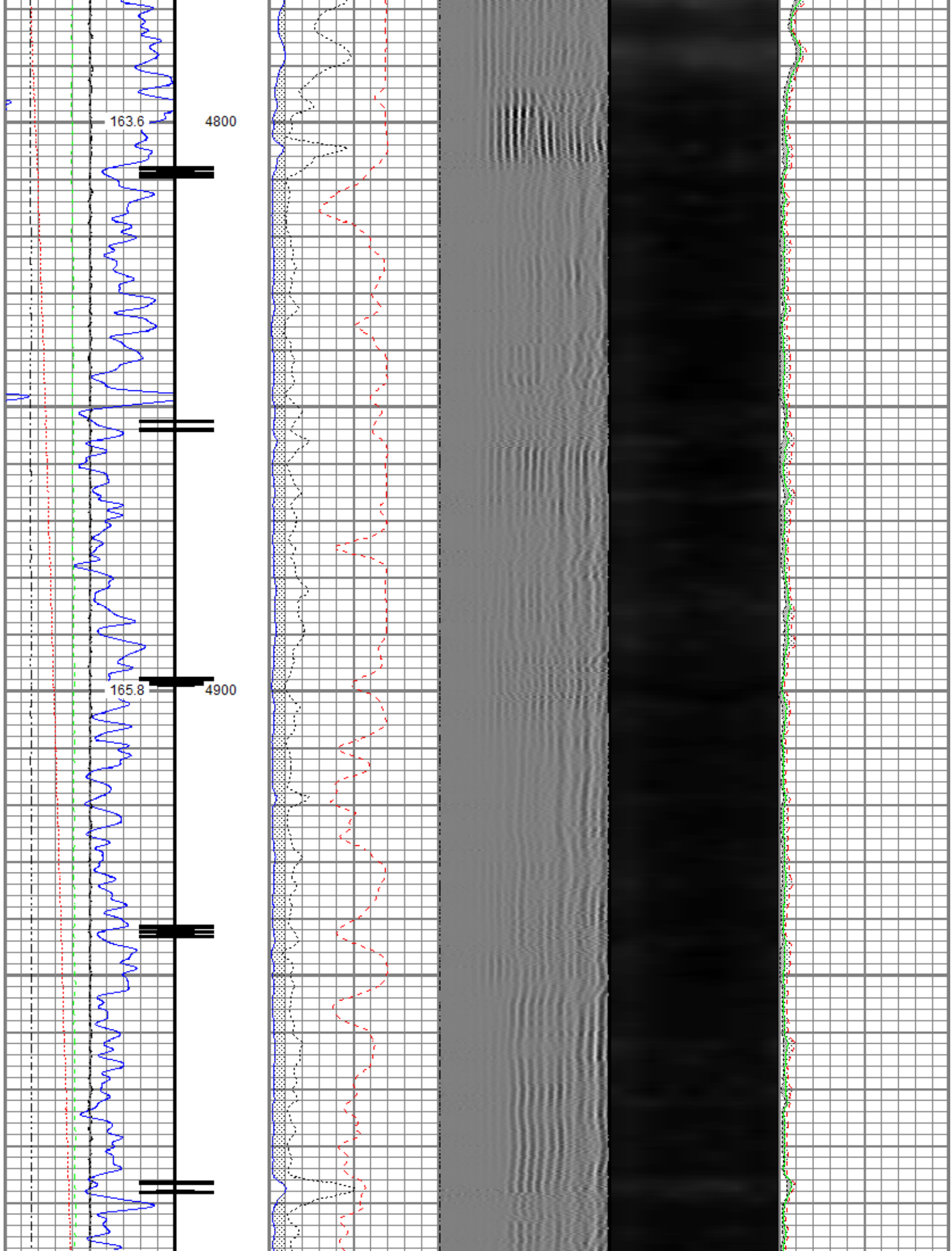


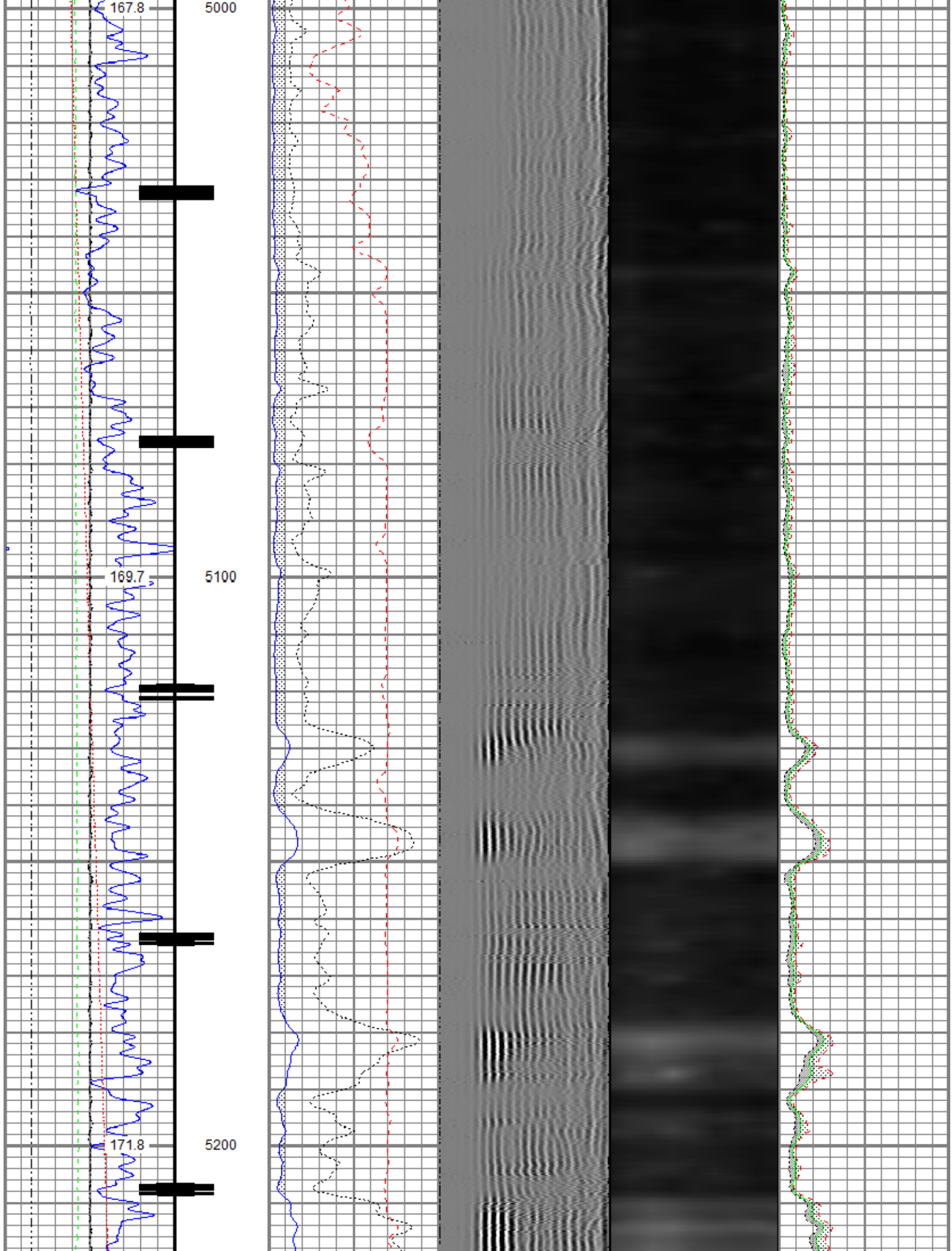


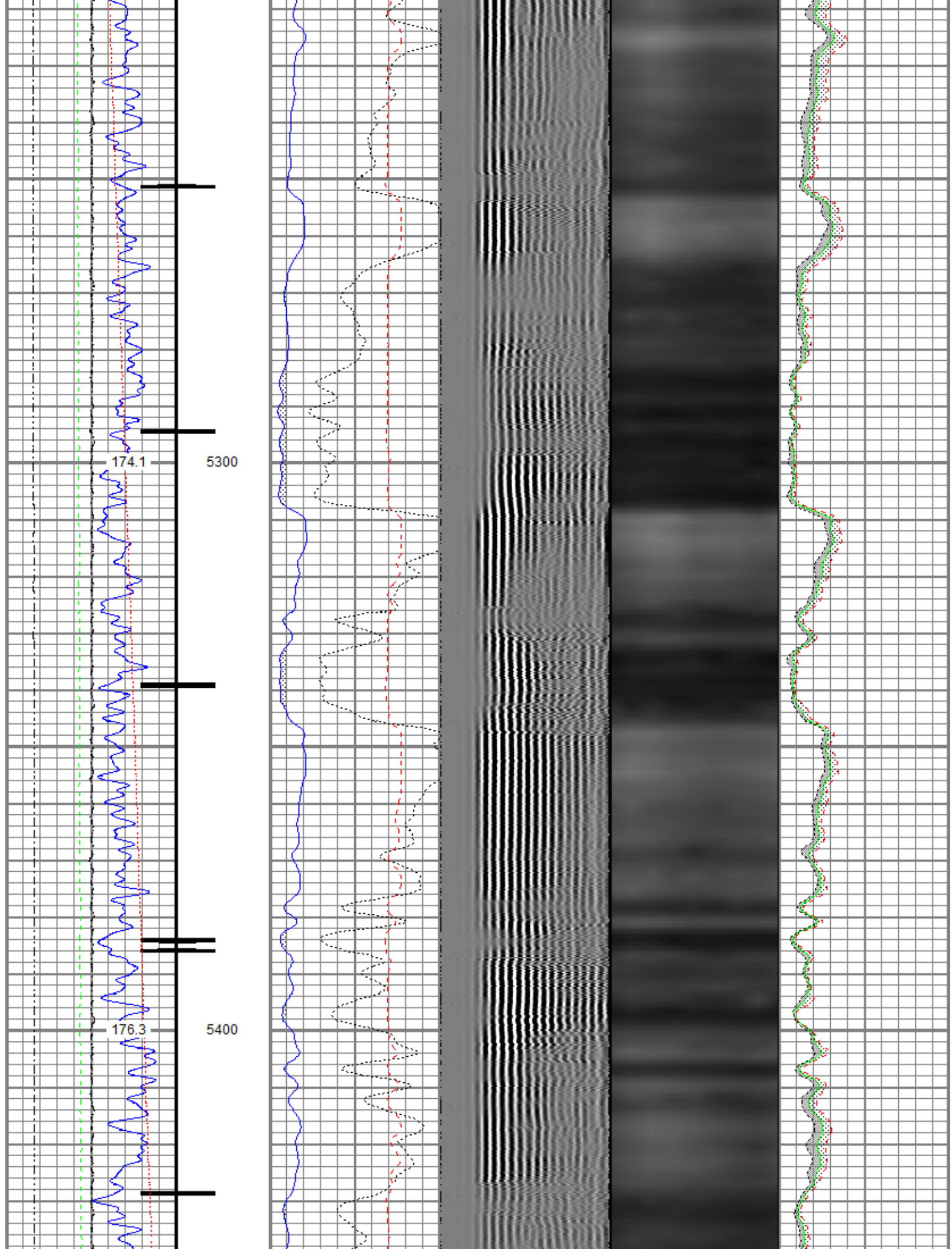


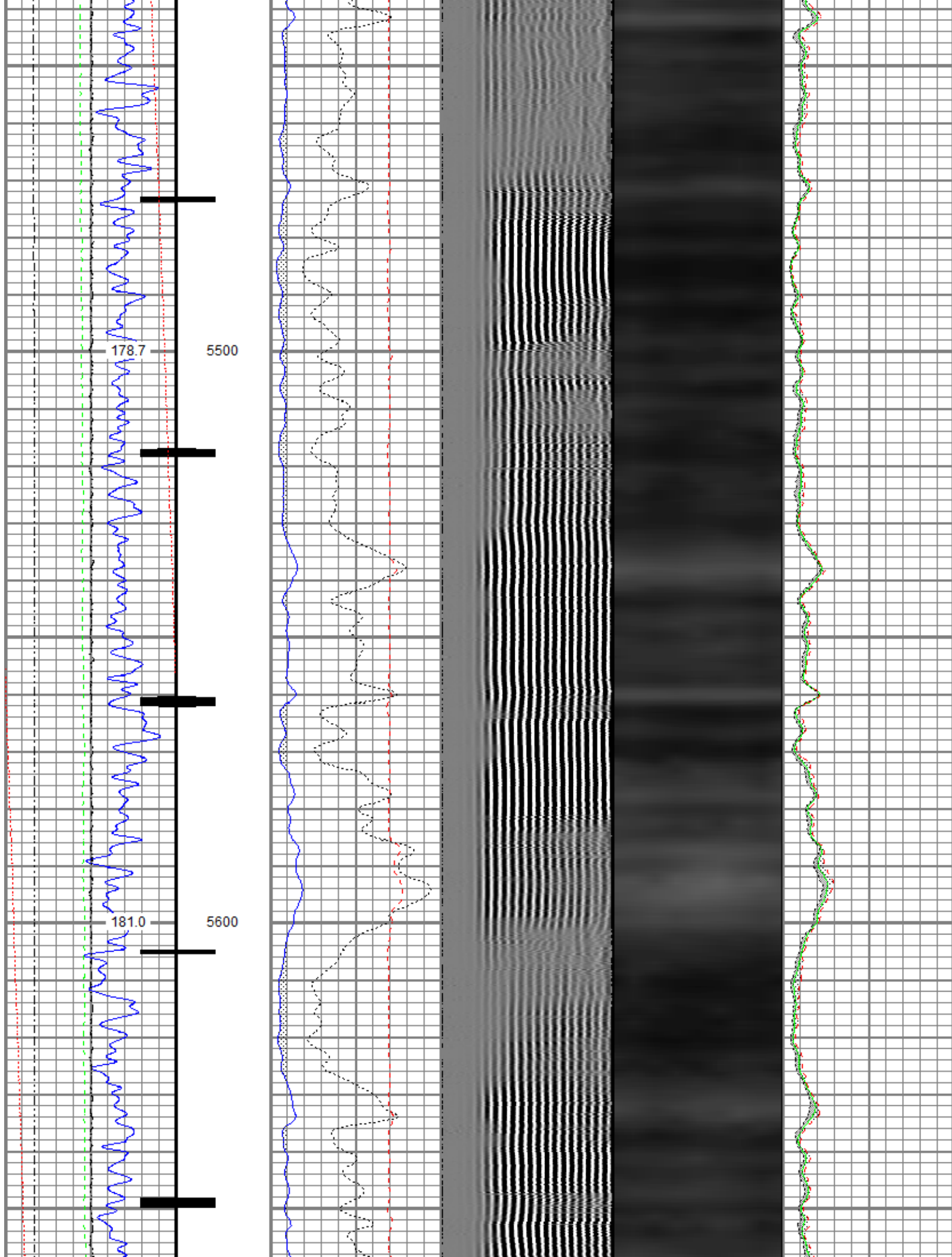


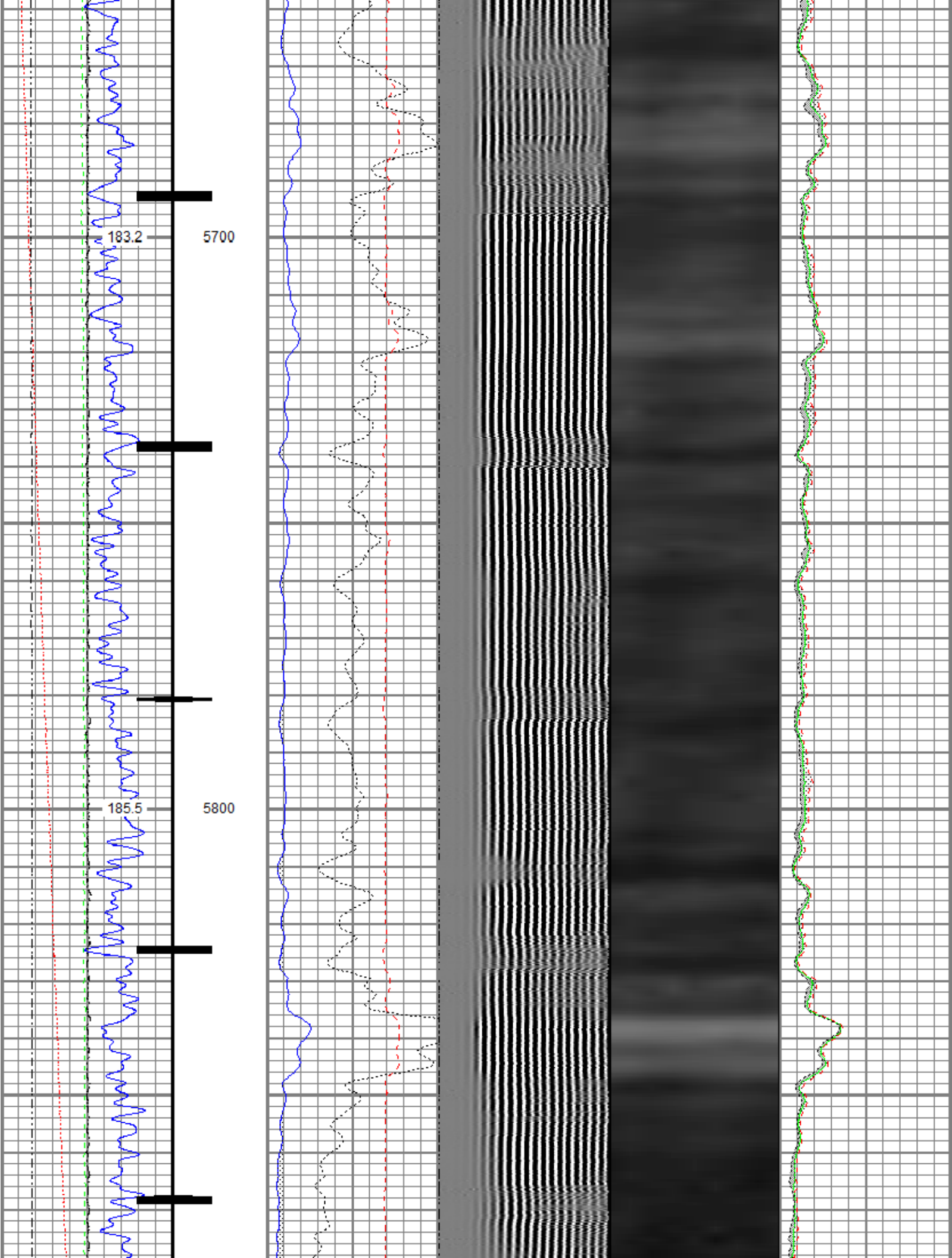


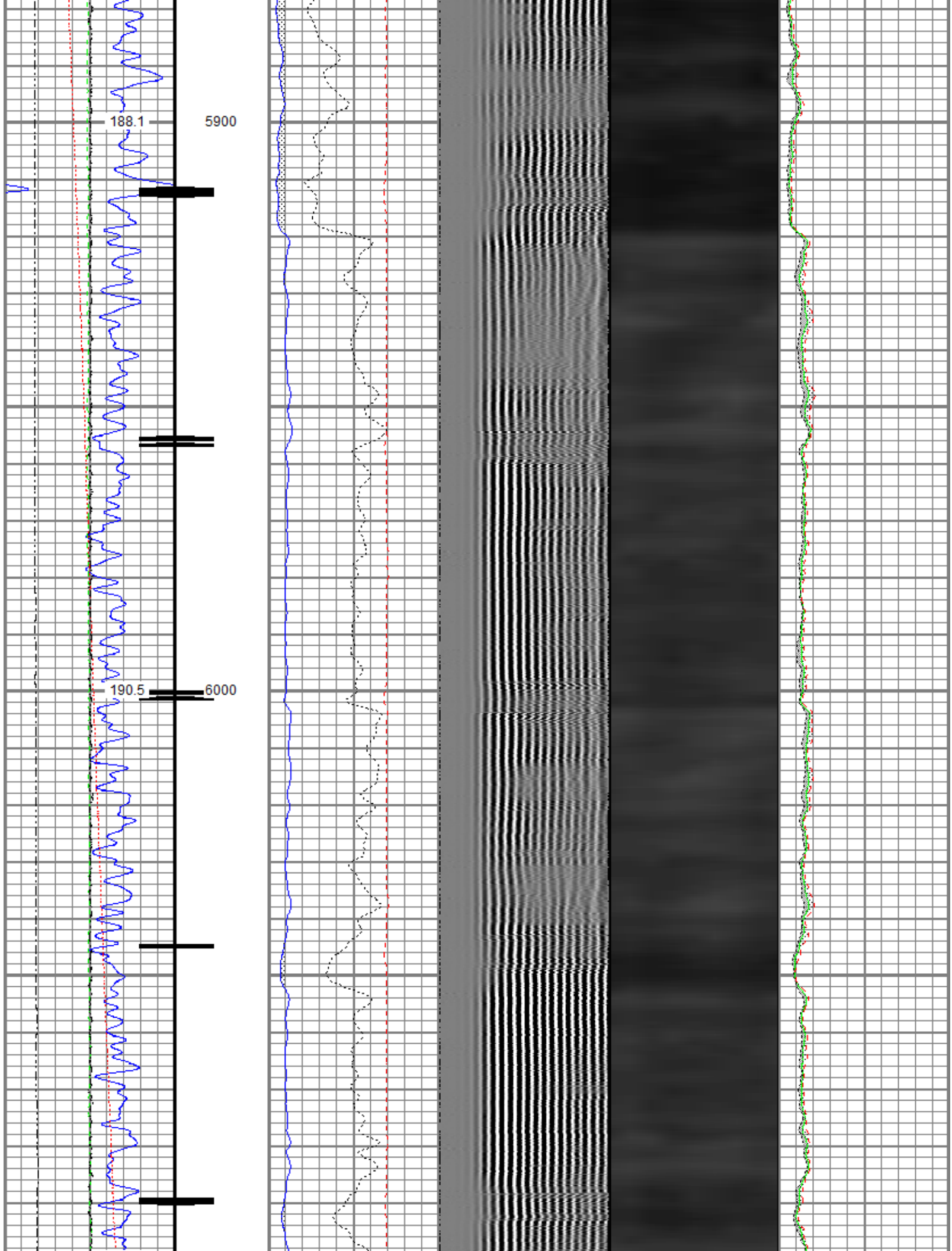


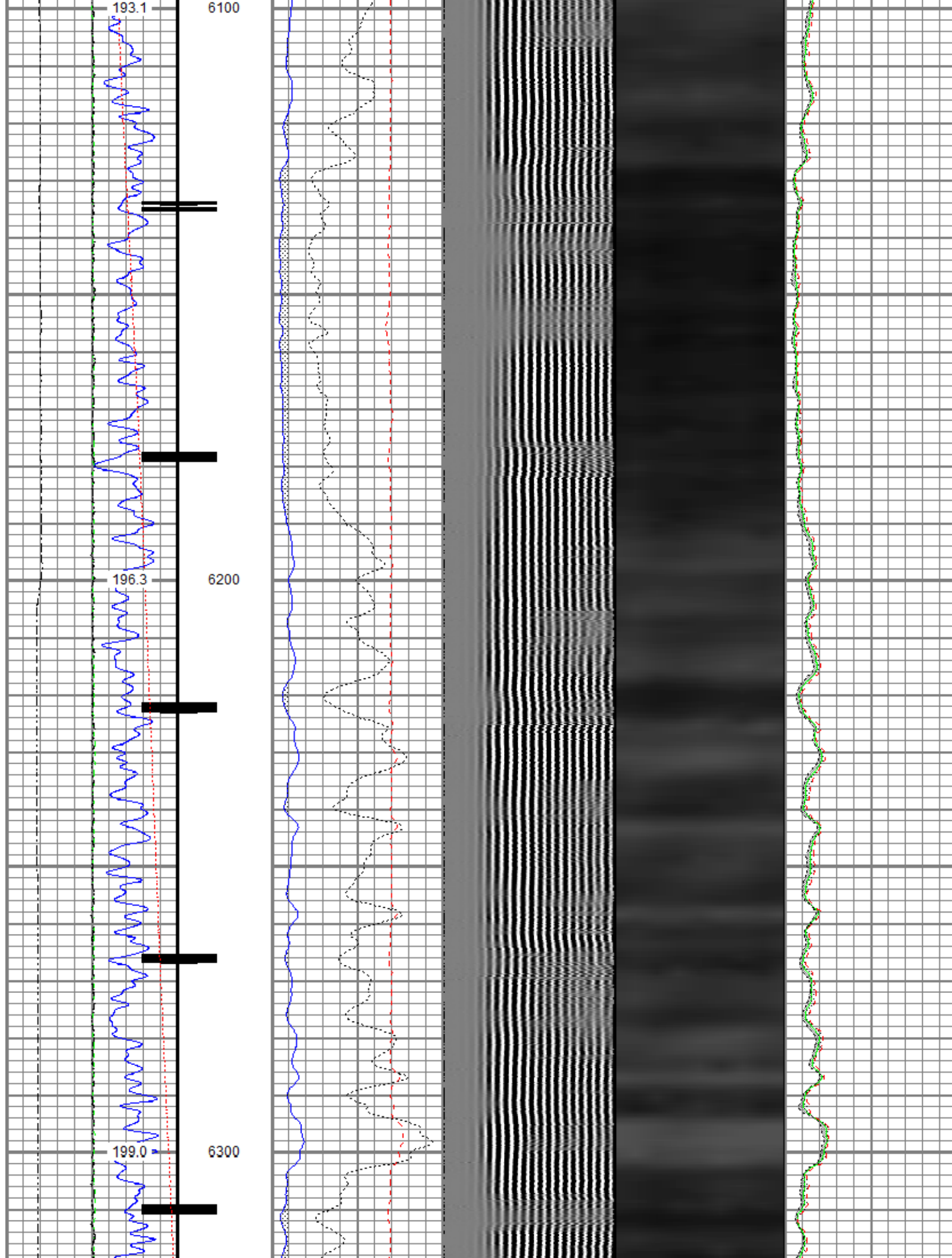


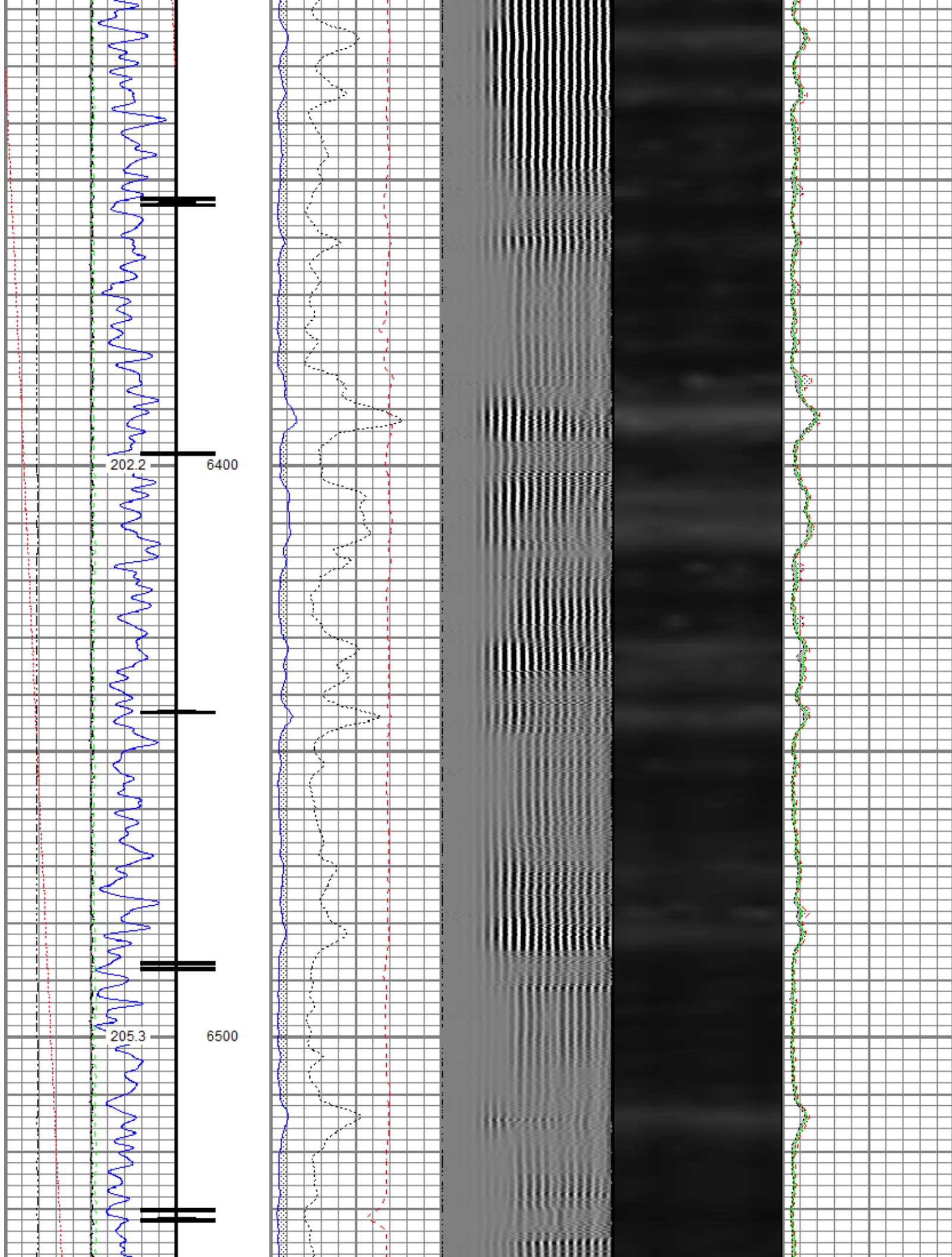


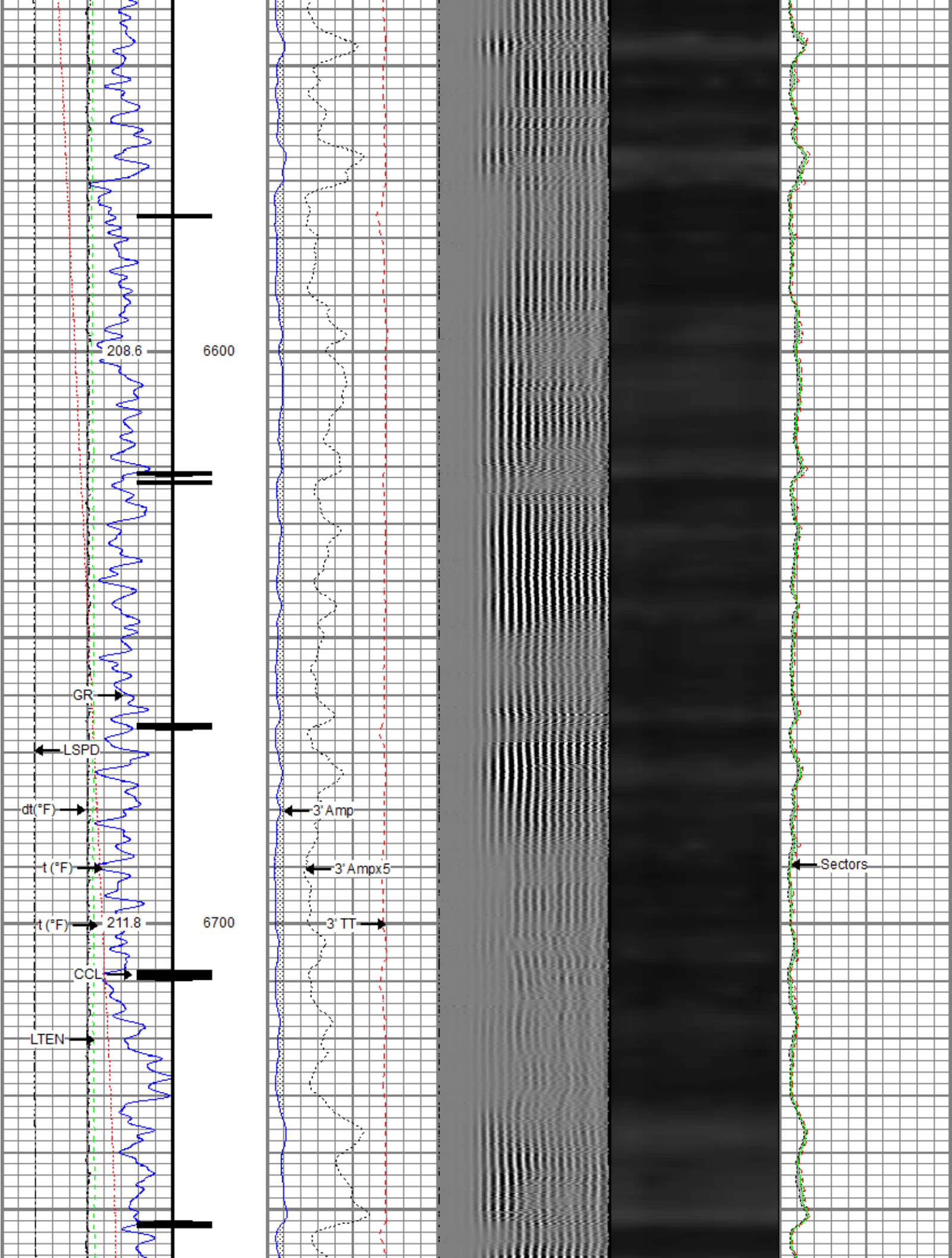


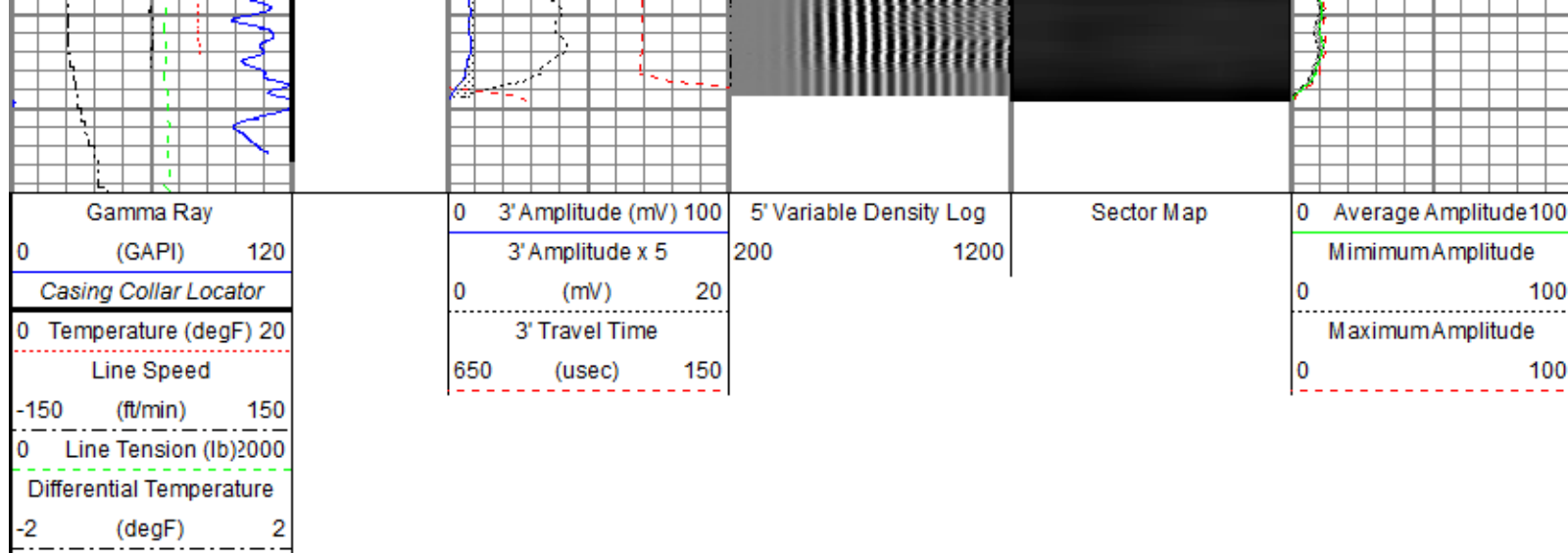








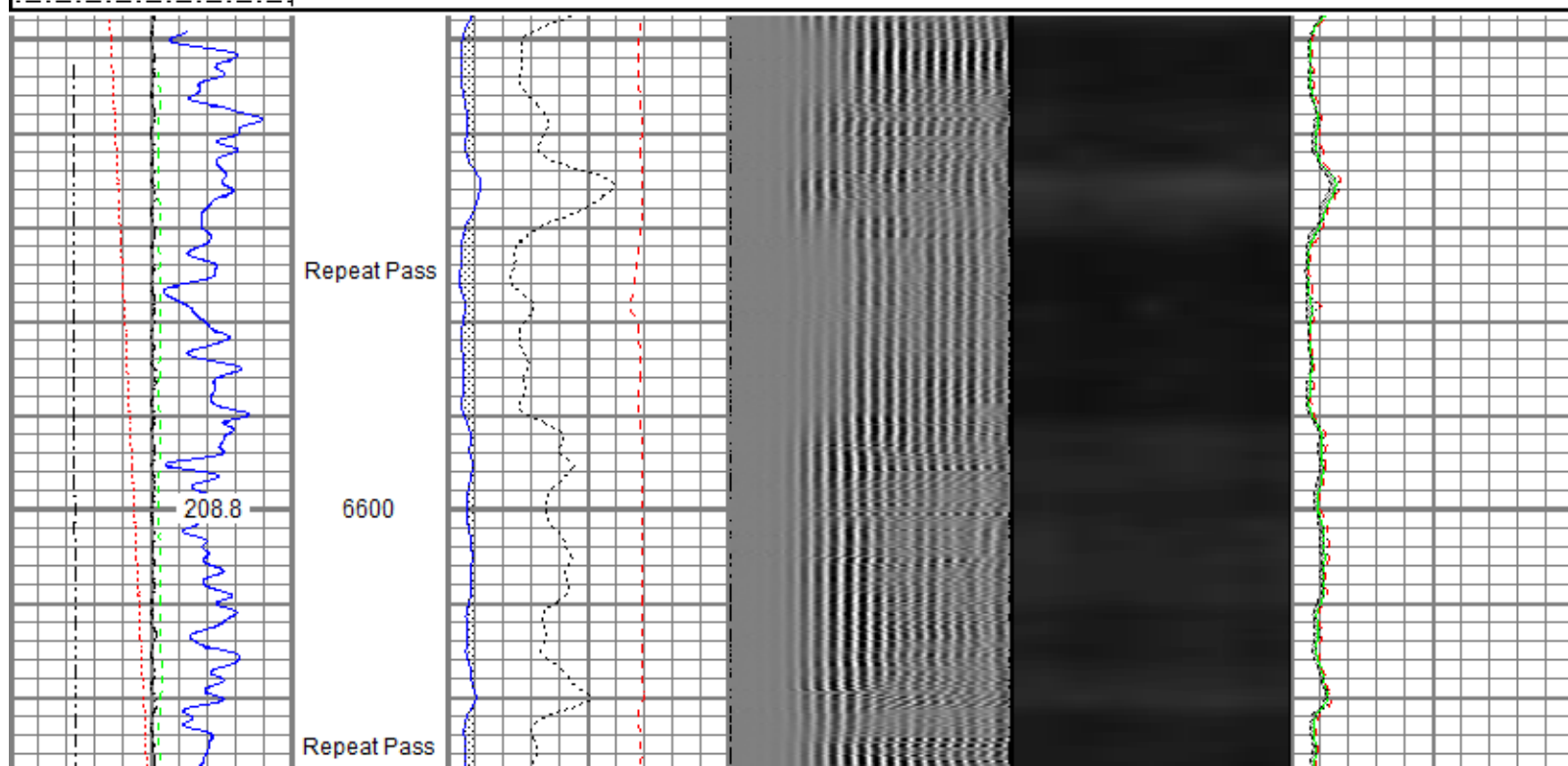
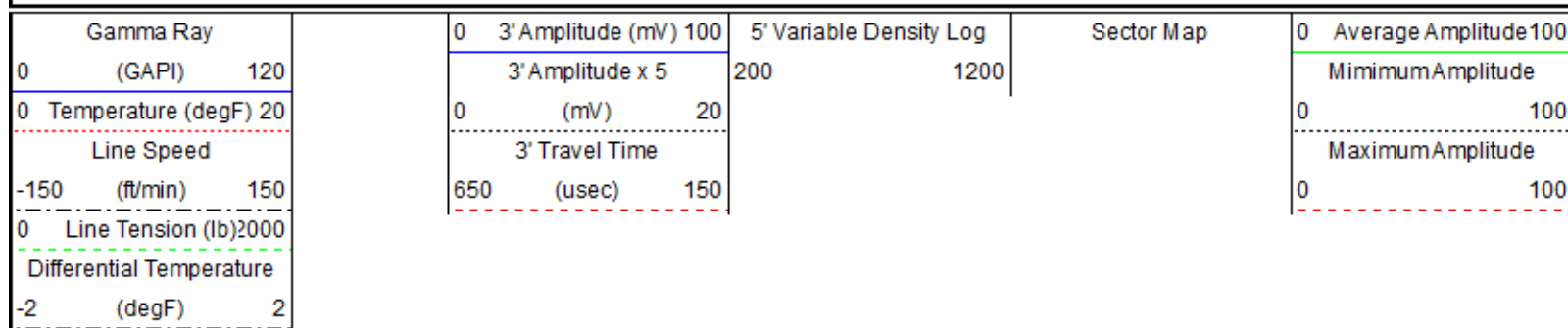


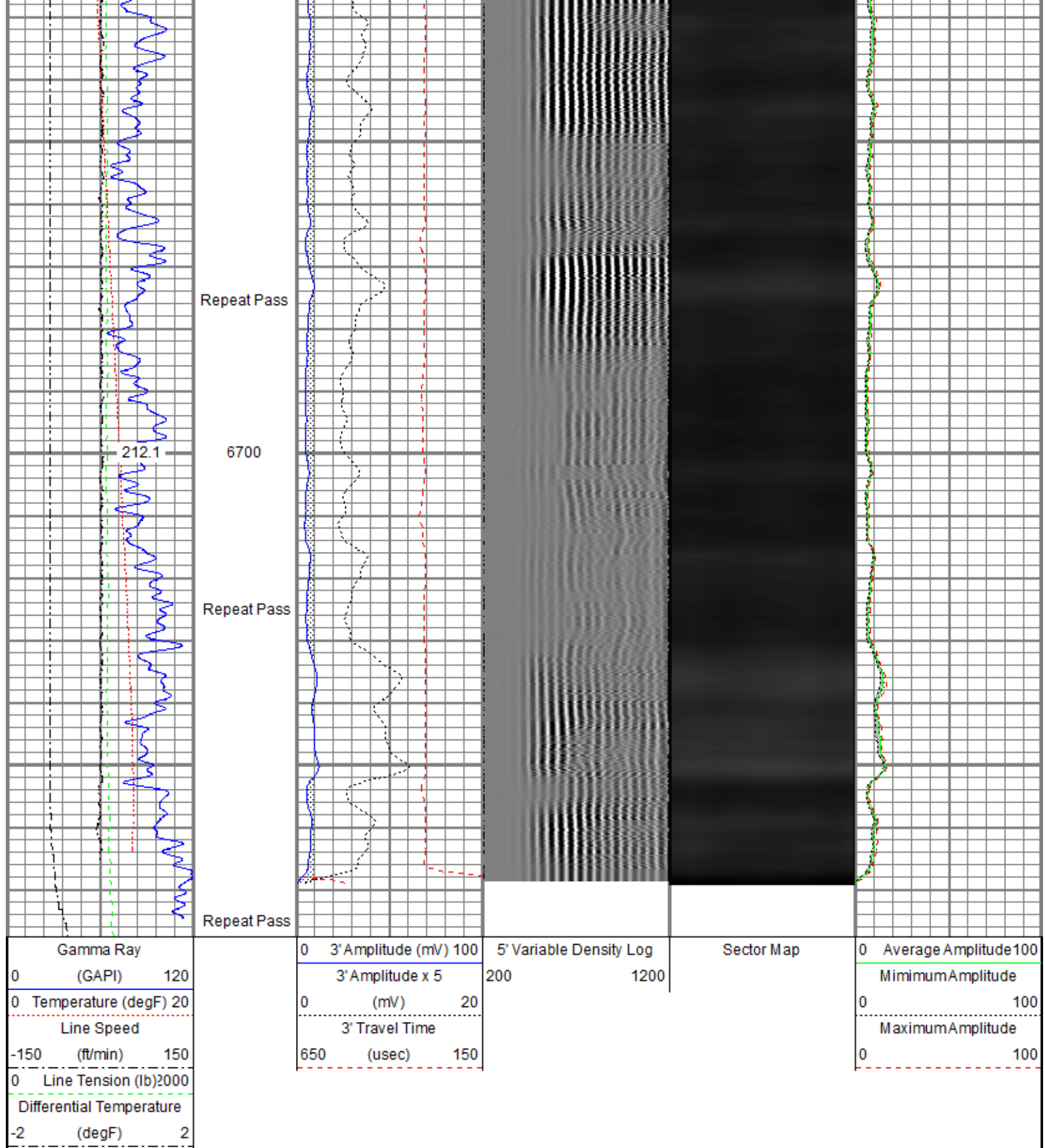


Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File: anadarko_burough 26c-17hz\processed_0512345231_anadarko_burough 26c-17hz_rbl_01-17-18.db
 Dataset Pathname: pass2.1
 Presentation Format: ros_radri
 Dataset Creation: Fri Jan 19 09:33:03 2018
 Charted by: Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			

TEMP	17.03						
WVFS8	14.80			Probe Radii-2750 RBT (FW1302-002)	9.39	2.75	105.00
WVFS7	14.80			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS6	14.80						
WVFS5	14.80						
WVFS4	14.80						
WVFS3	14.80						
WVFS2	14.80						
WVFS1	14.80						
WVFCAL	14.80						
WVF3FT	14.80						
WVF5FT	13.80						
HEADVOLT	10.55			Probe CENT-2750	2.88	2.75	20.00
				Probe 2-3/4" Electric Inline Bowspring Centralizer			
CCL\$2	6.79						
CCL\$1	6.79						
GR	5.55			Probe GR-CCL-2750 GOB (FW1212-026)	4.51	2.75	55.00
				Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined			
				Probe ADPT-6P-GO	0.28	2.75	2.00
				Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub			
				Probe CENT-2750	2.88	2.75	20.00
				Probe 2-3/4" Electric Inline Bowspring Centralizer			
Dataset: PROCESSED_0512345231_Anadarko_Borough 26C-17HZ_RBL_01-17-18.db: field/well/run1/pass1 Total length: 23.86 ft Total weight: 225.60 lb O.D.: 2.75 in							

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\Anadarko_Borough 26C-17HZ\PROCESSED_0512345231_Anadarko_Borough 26C-17HZ_RBL_01-17-18.db: field/well/run1/pass1
Dataset Pathname	pass1
Dataset Creation	Wed Jan 17 08:49:03 2018

Gamma Ray Calibration Report	
------------------------------	--

Serial Number:	FW1212-026
----------------	------------

Serial Number: FW1212-020
Tool Model: 2750 GOB
Performed: Sun Nov 12 12:27:51 2017

Calibrator Value: 637.0 GAPI
Background Reading: 113.7 cps
Calibrator Reading: 1029.1 cps
Sensitivity: 0.6959 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
Calibration Depth: -56.503 ft

Master Calibration, performed Wed Jan 17 08:02:15 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.507	0.800	71.921	144.741	-1.529
CAL	0.676	0.503				
5'	0.008	0.491	0.800	71.921	147.399	-0.429
SUM						
S1	0.013	0.506	0.000	100.000	202.662	-2.603
S2	0.017	0.504	0.000	100.000	205.185	-3.499
S3	0.016	0.506	0.000	100.000	203.908	-3.186
S4	0.015	0.506	0.000	100.000	203.700	-3.063
S5	0.012	0.507	0.000	100.000	202.117	-2.489
S6	0.014	0.510	0.000	100.000	201.873	-2.923
S7	0.016	0.510	0.000	100.000	202.527	-3.194
S8	0.015	0.507	0.000	100.000	203.195	-3.113

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.676	0.503	1.000	0.000

Air Zero Calibration, performed Wed Jan 17 08:01:50 2018:

	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	

Temperature Calibration Report

Serial Number: FW1302-002
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:28:07 2017

Reference Reading

	Reference	Reading
Low Reference:	100.00 degF	110.72 degF
High Reference:	350.00 degF	409.18 degF
Gain:	0.84	
Offset:	7.26	
Delta Spacing	1	



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Borough 26C-17HZ
Field	Wattenberg
County	Weld
State	Colorado