

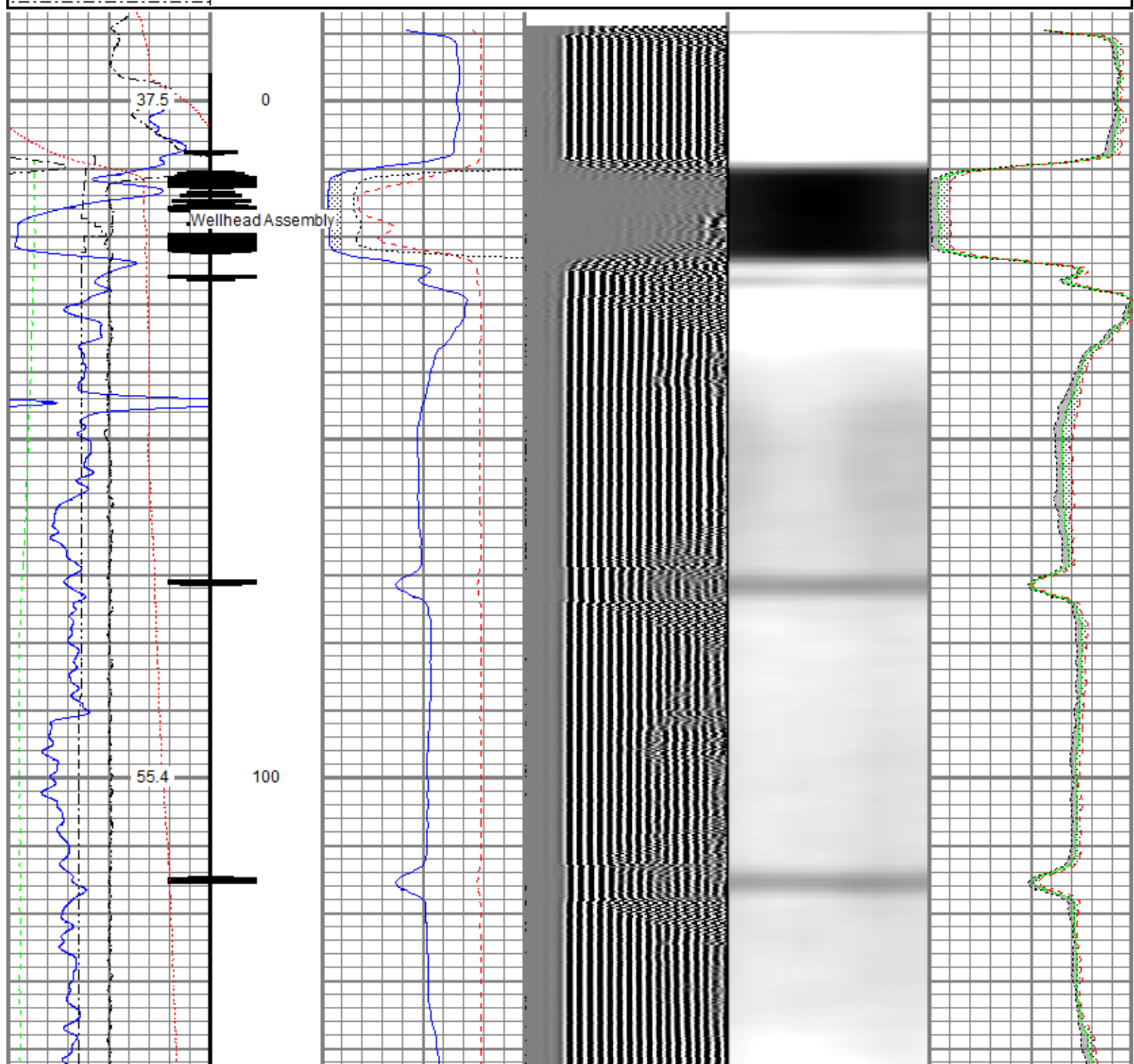
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
<p>Log ran as per customer request Depth referenced to Casing Tally reported Marker Joint at 7368 FT Adjusted -2 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 8218 FT with no debris Log ran from just above RBP to Surface Recorded with 2800 PSI Surface Induced Pressure Logging tools were covered in a black liquid upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

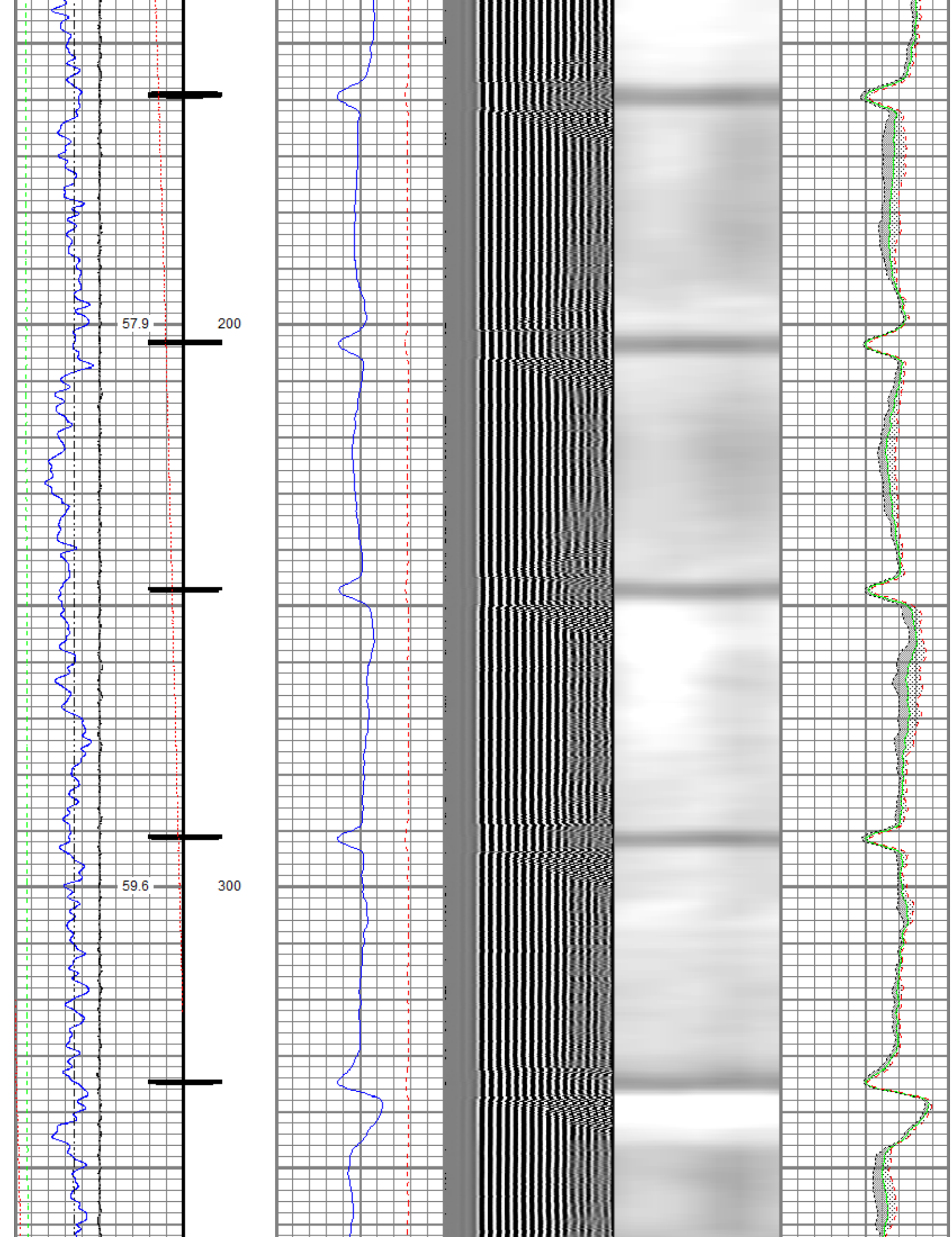


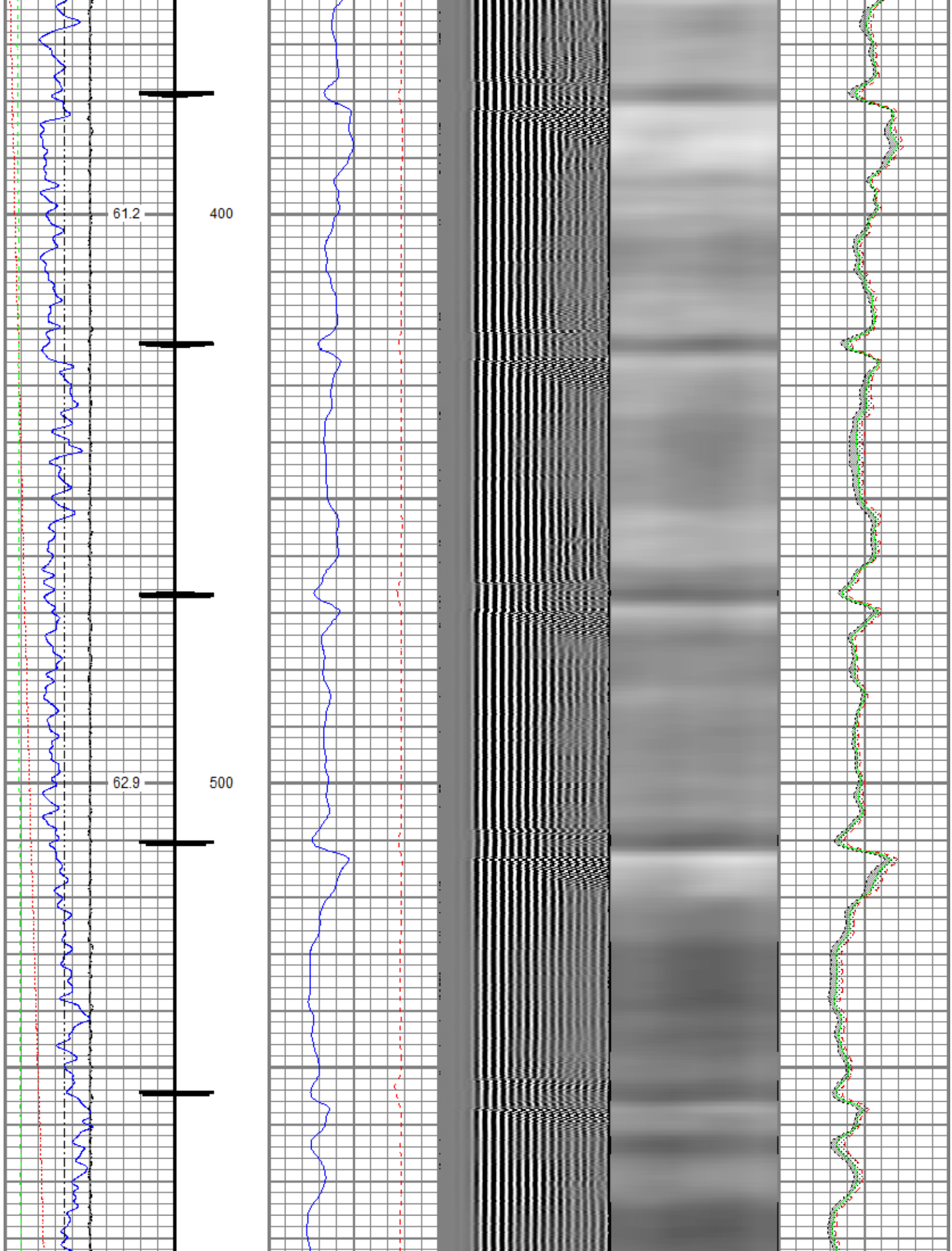
Recorded With 2800 PSI Surface Induced Pressure

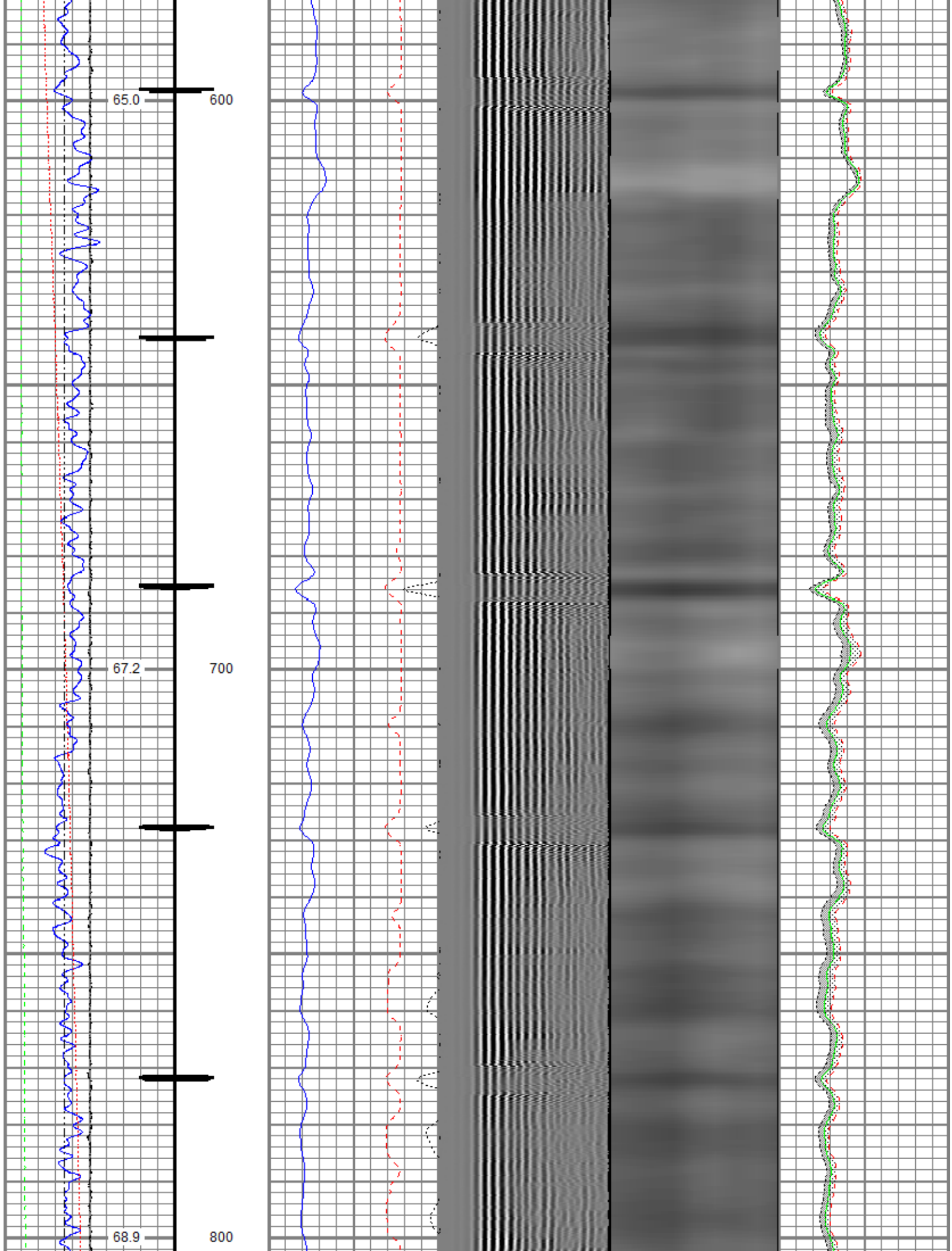
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Dataset Pathname	pass2.2
Presentation Format	ros_radri
Dataset Creation	Mon Feb 19 13:50:18 2018
Charted by	Depth in Feet scaled 1:240

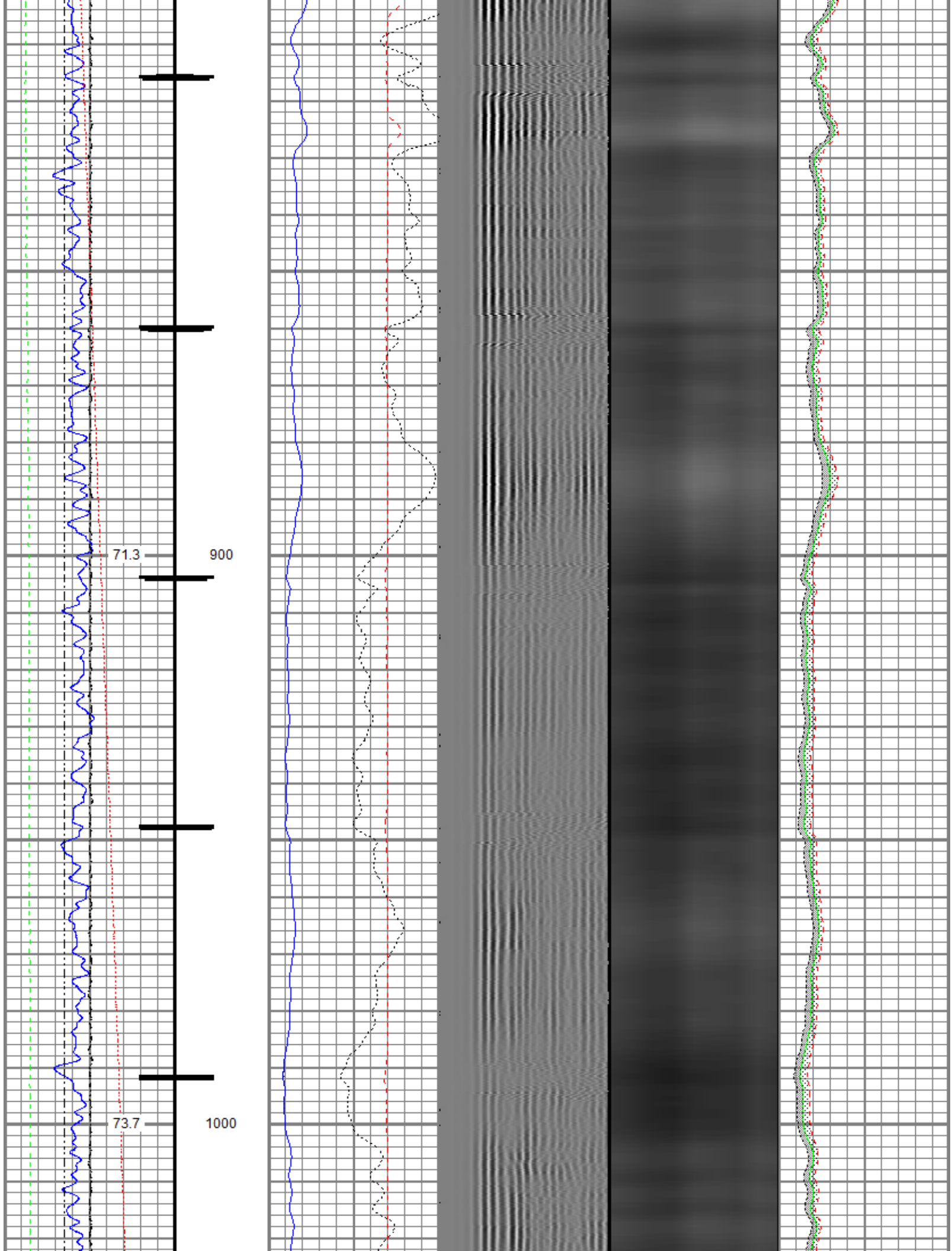
Gamma Ray	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	0	Average Amplitude	100
(GAPI)	120	3' Amplitude x 5	200	1200			Minimum Amplitude	
Casing Collar Locator		0	(mV)	20		0	100	
Temperature (degF)	20	3' Travel Time					Maximum Amplitude	
Line Speed		650	(usec)	150		0	100	
(ft/min)	150							
Line Tension (lb)	2000							
Differential Temperature								
(degF)	2							

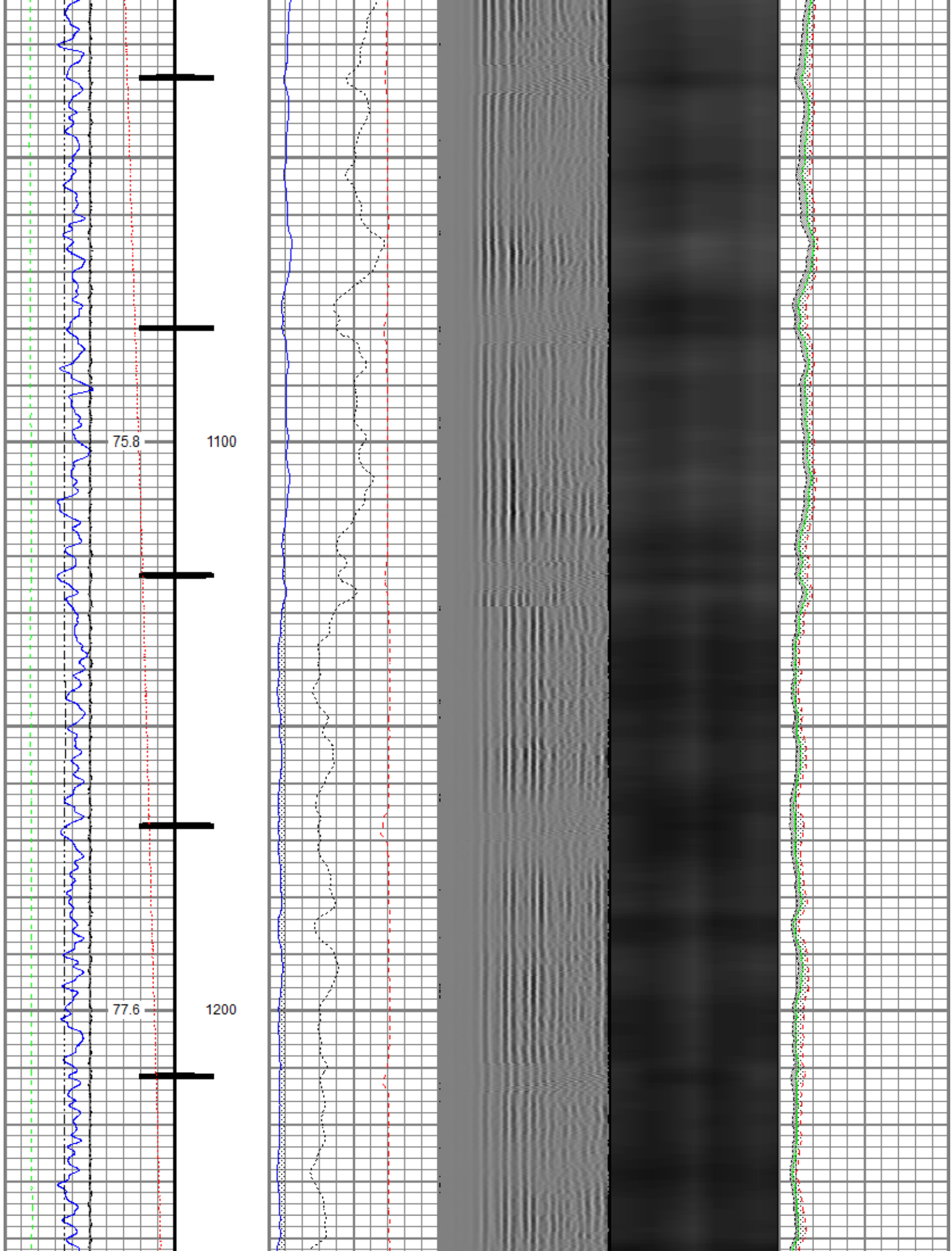


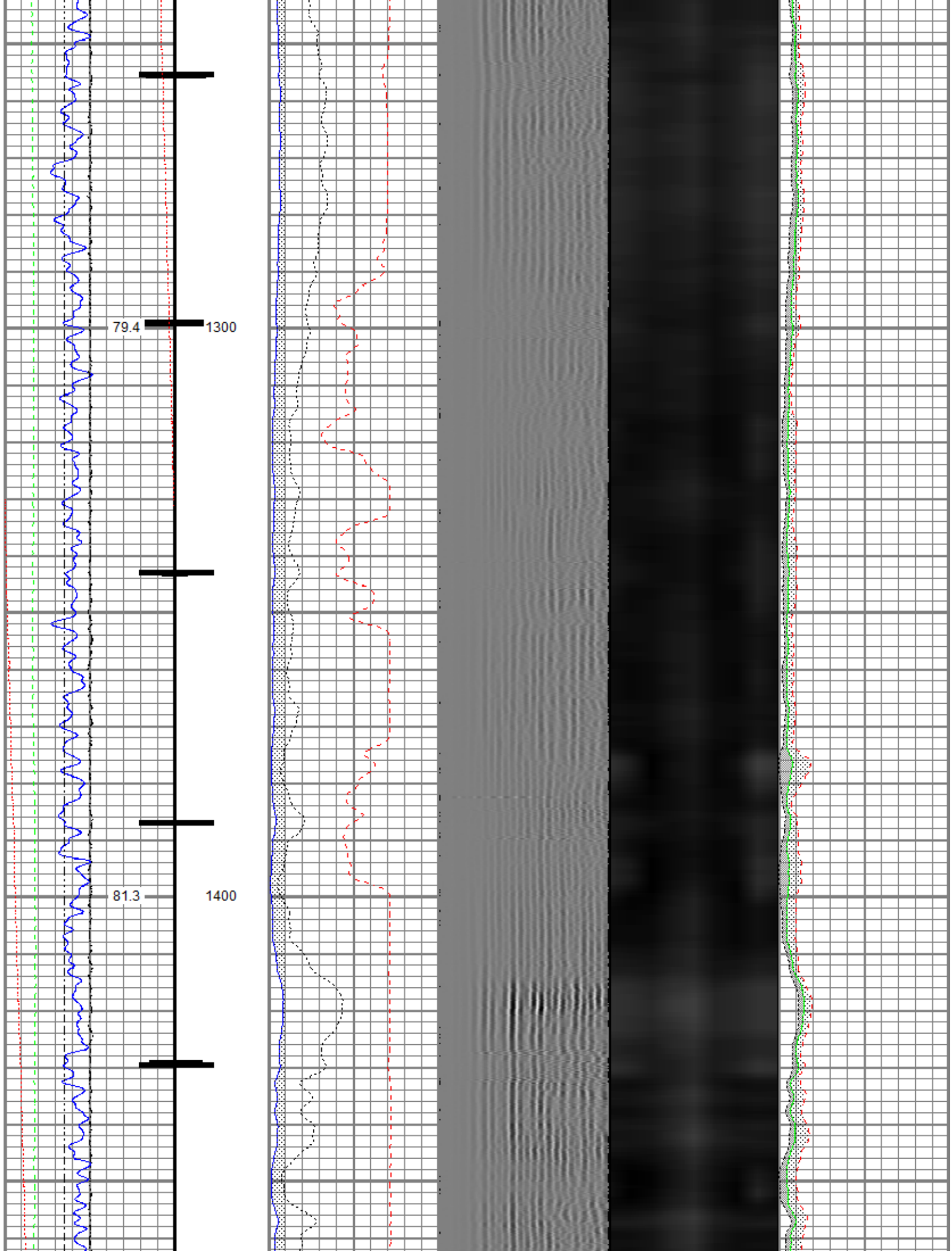


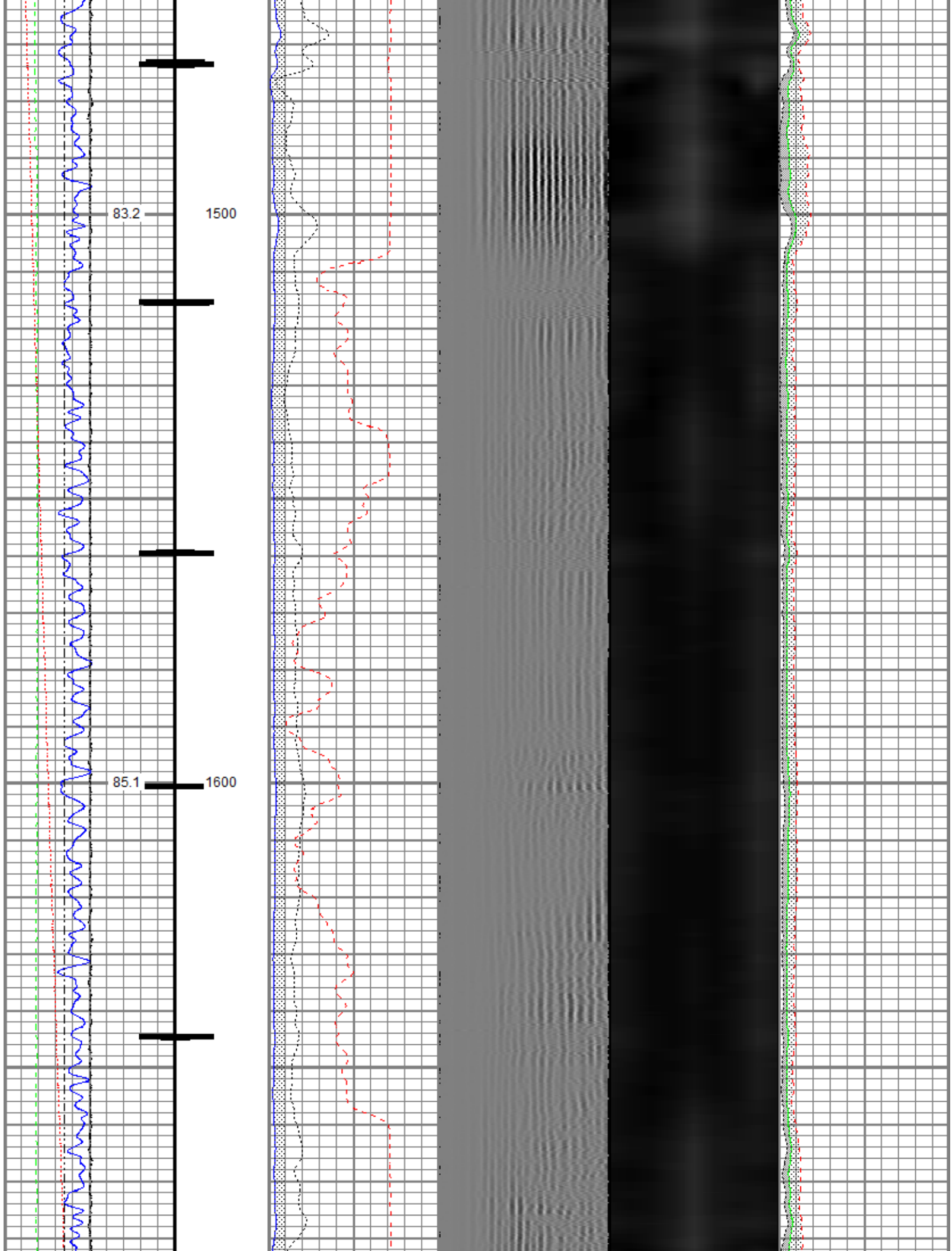


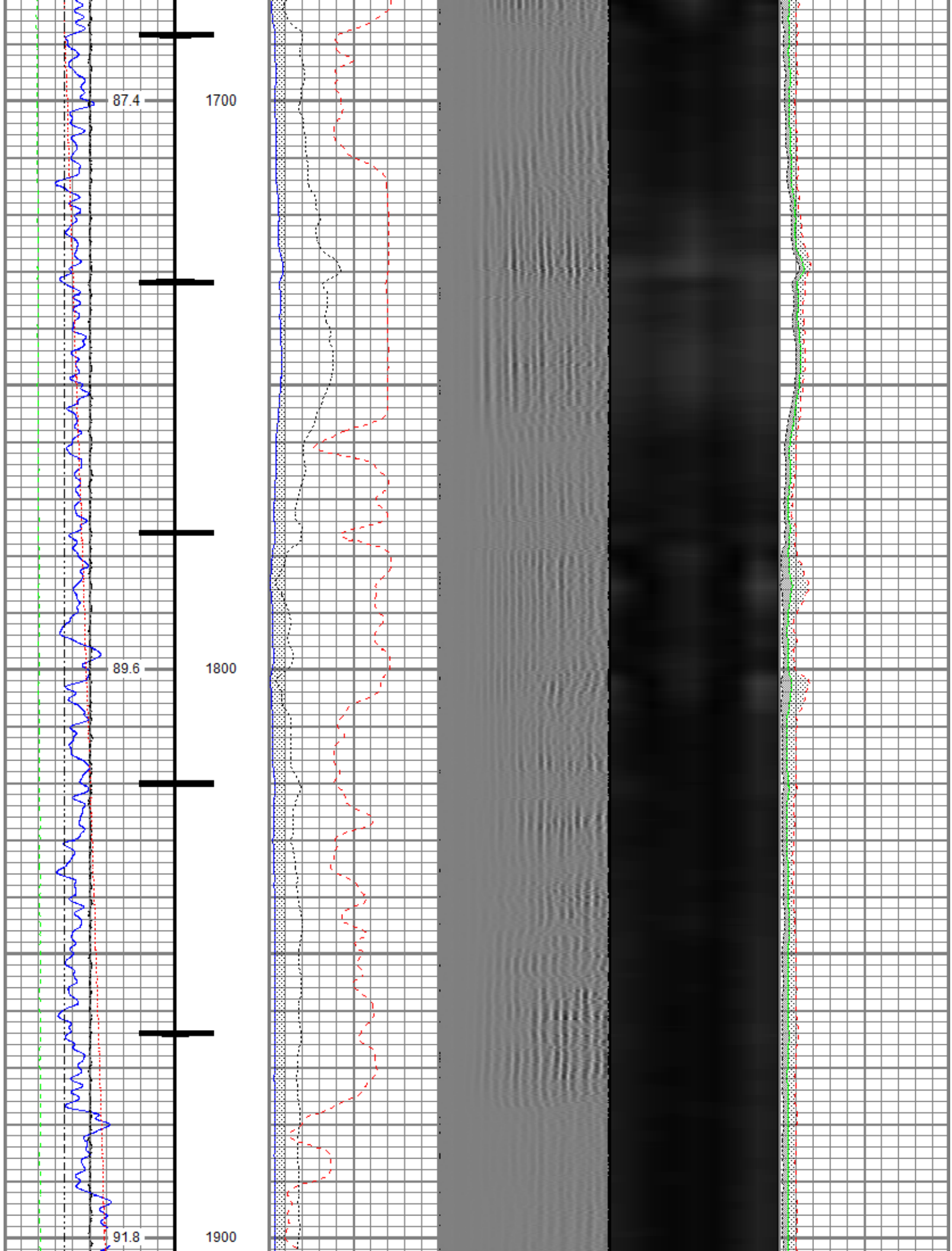


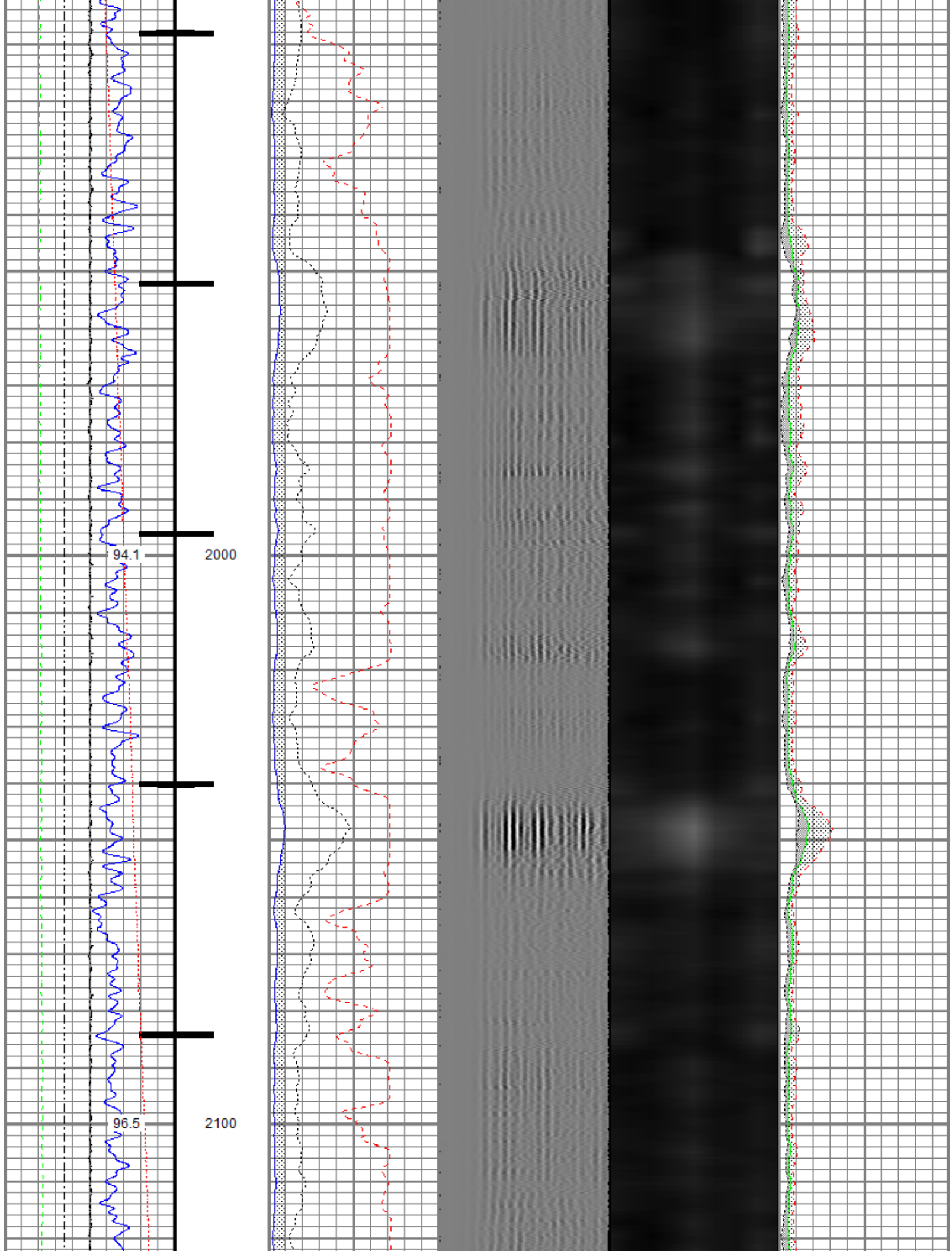


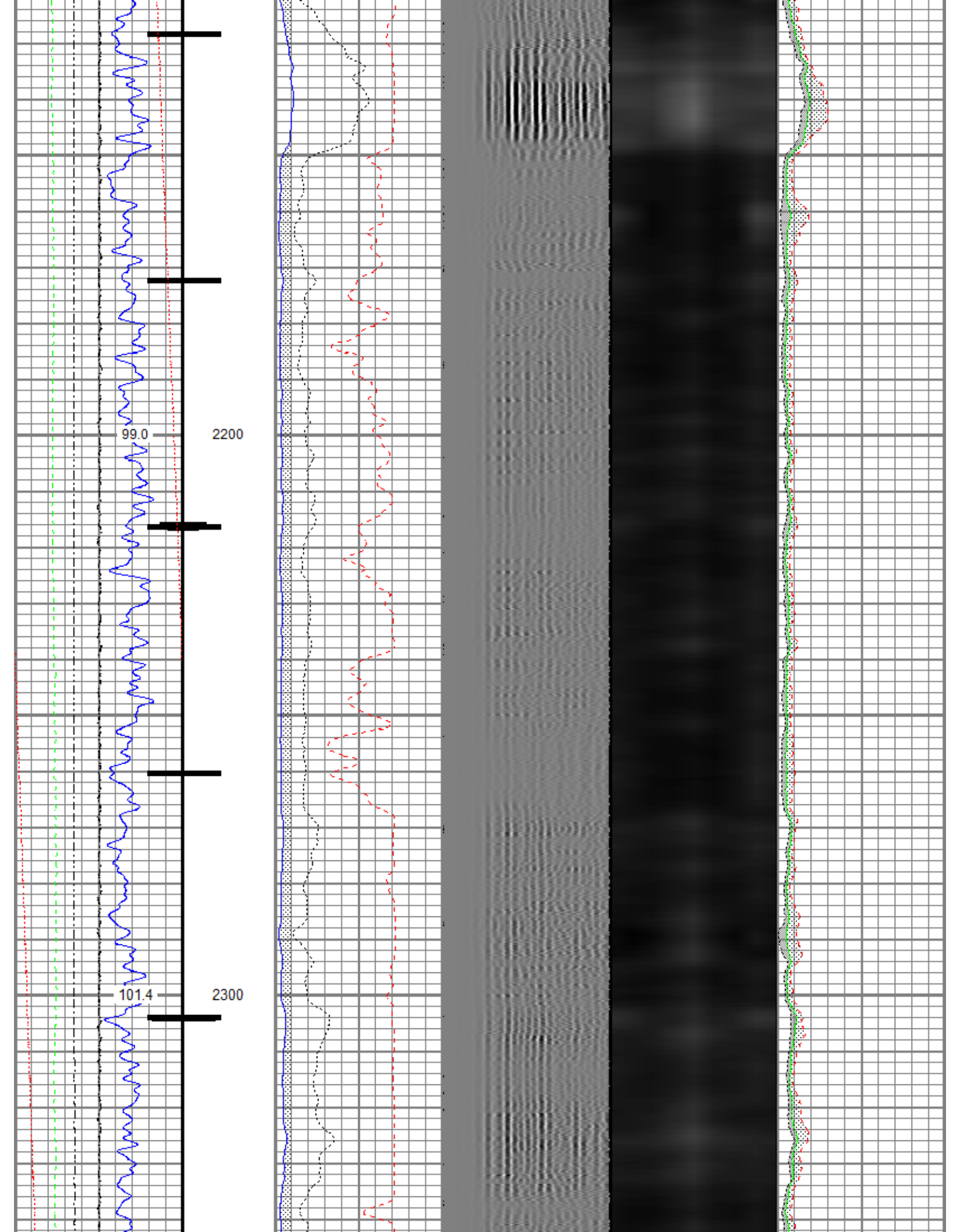


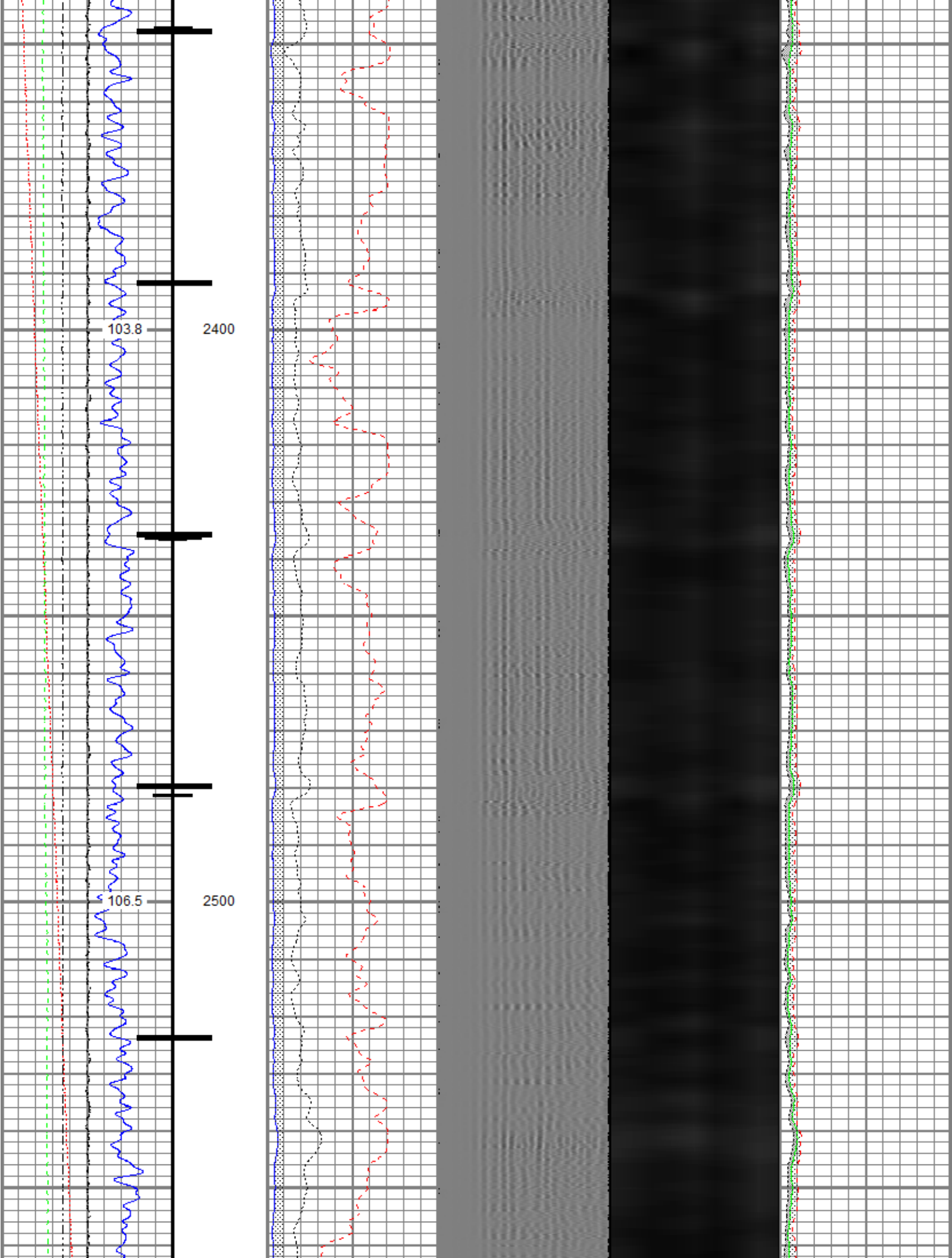


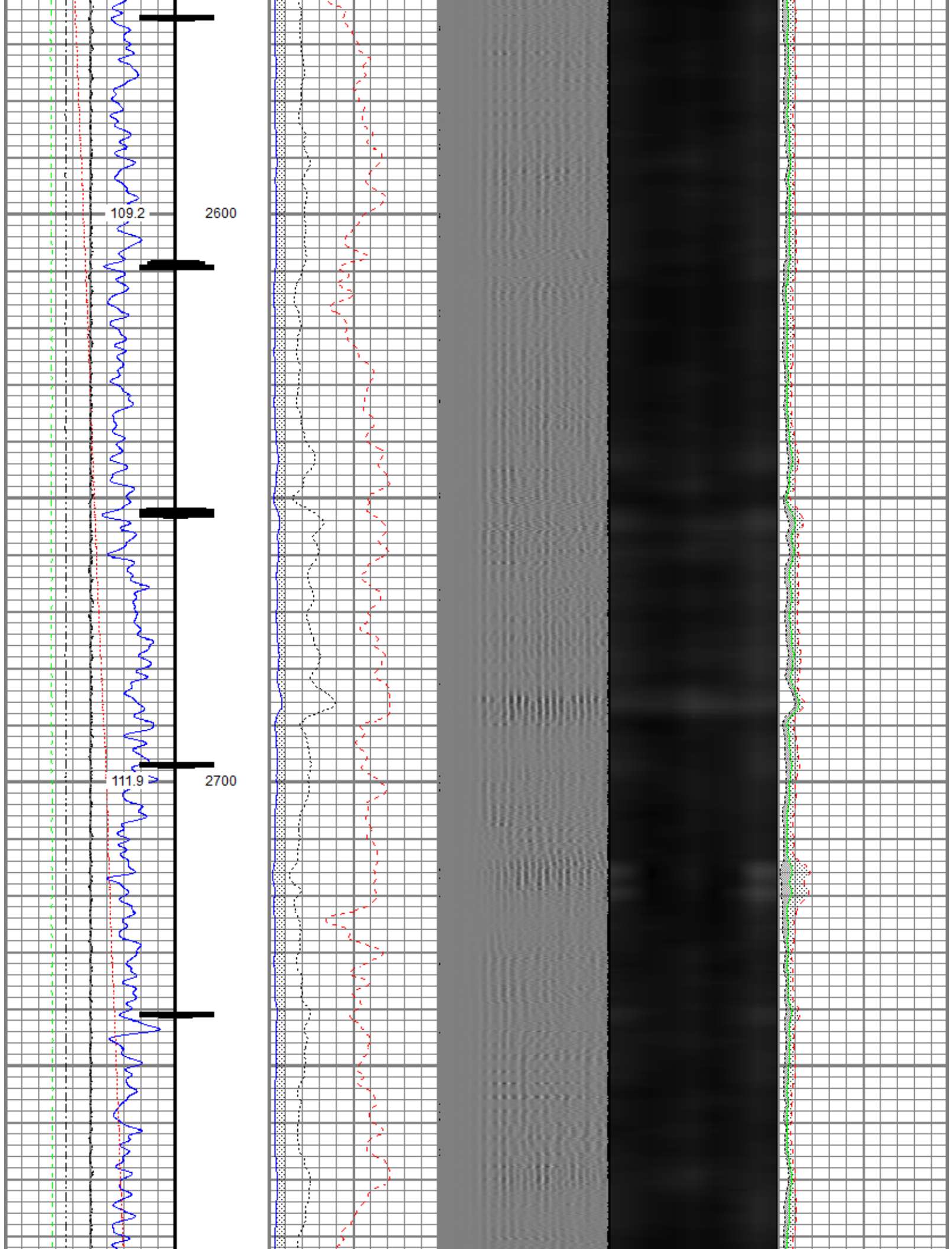


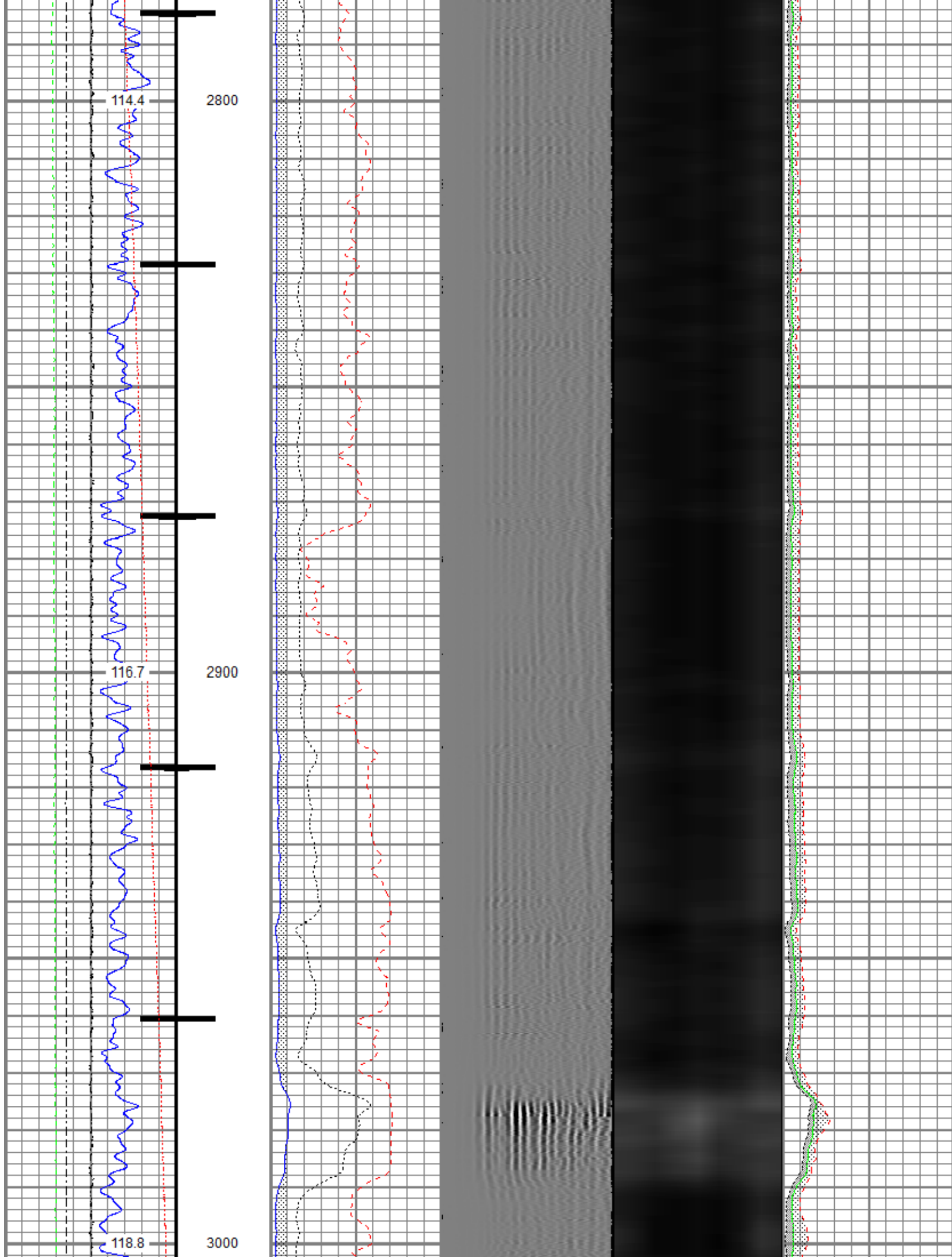


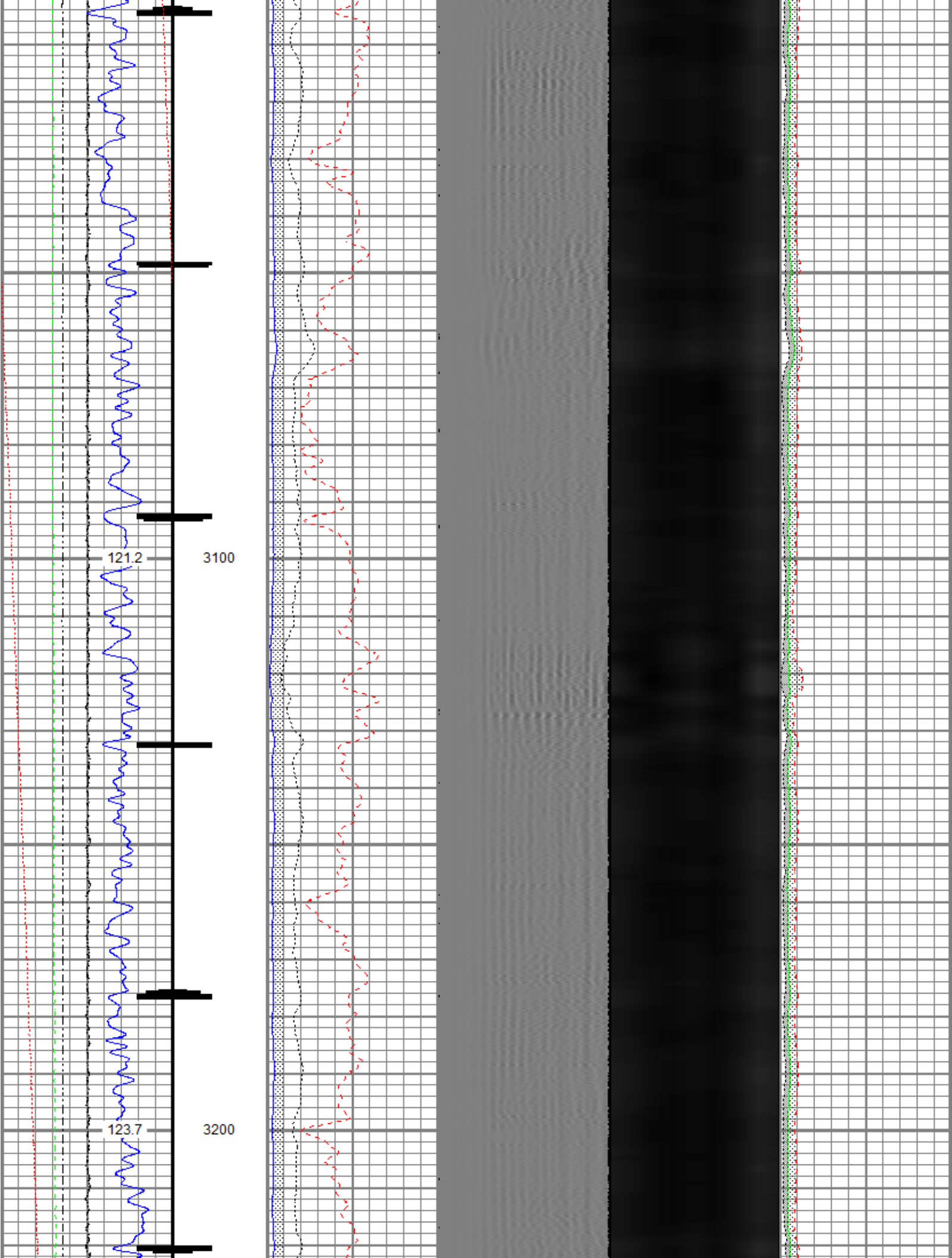


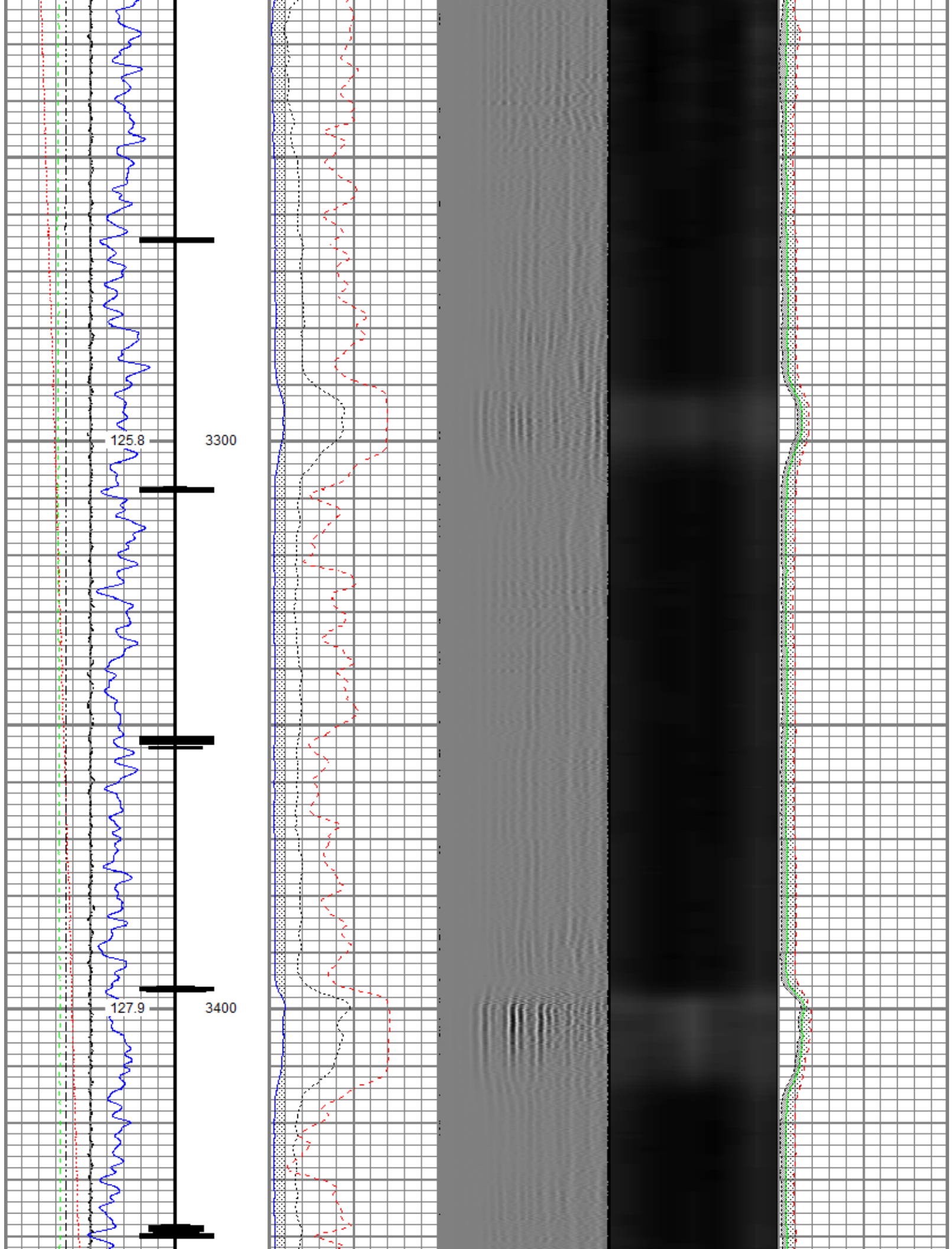


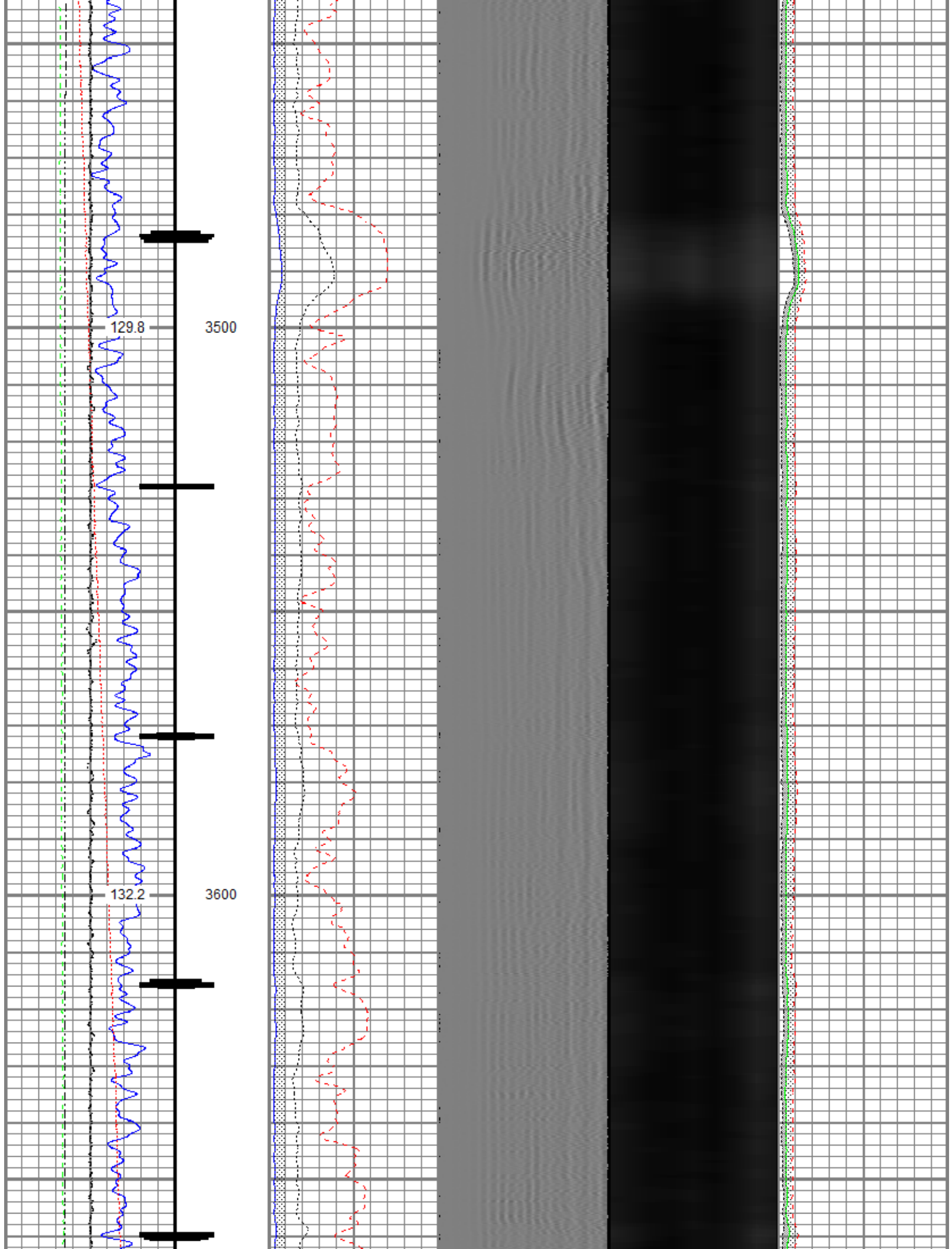


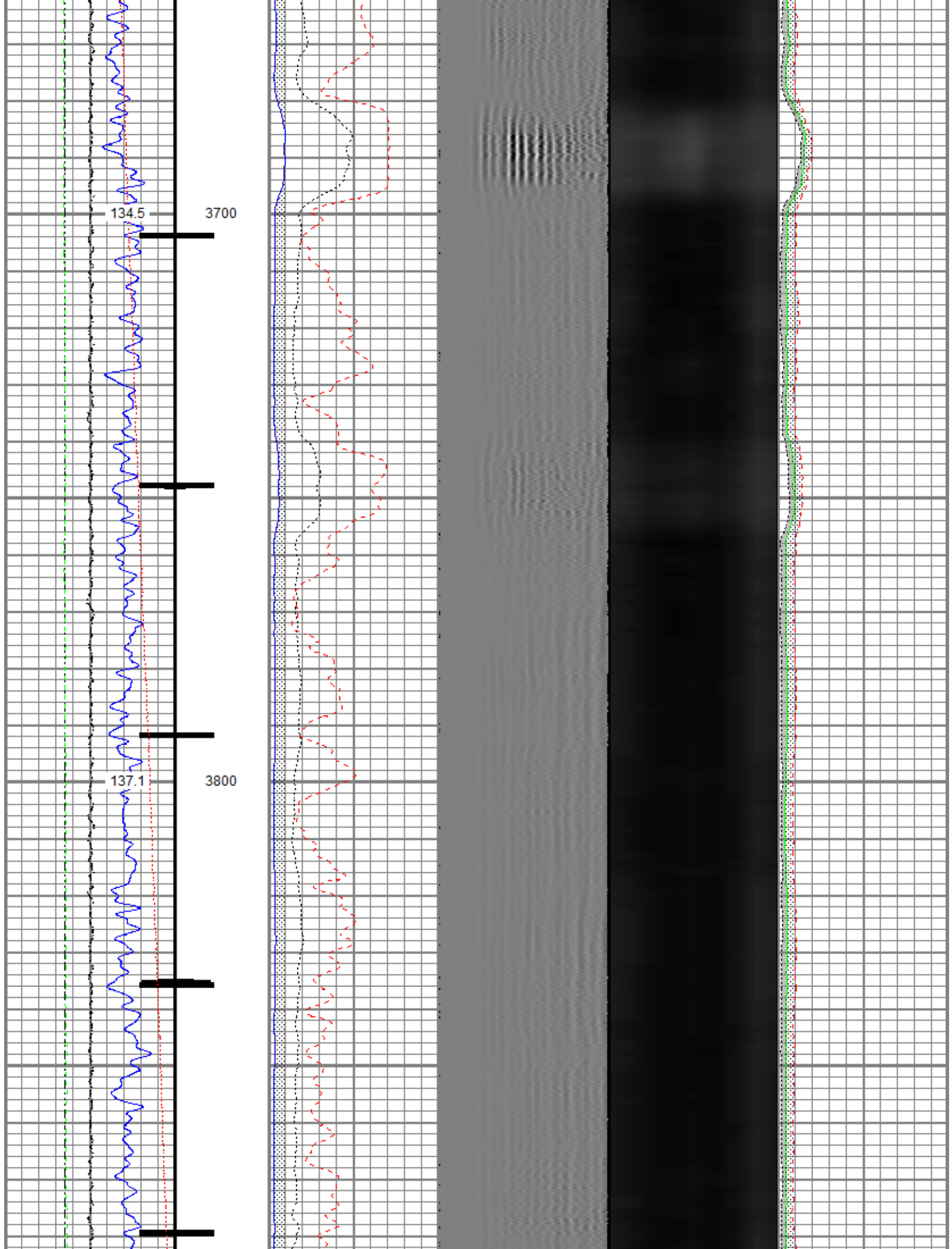


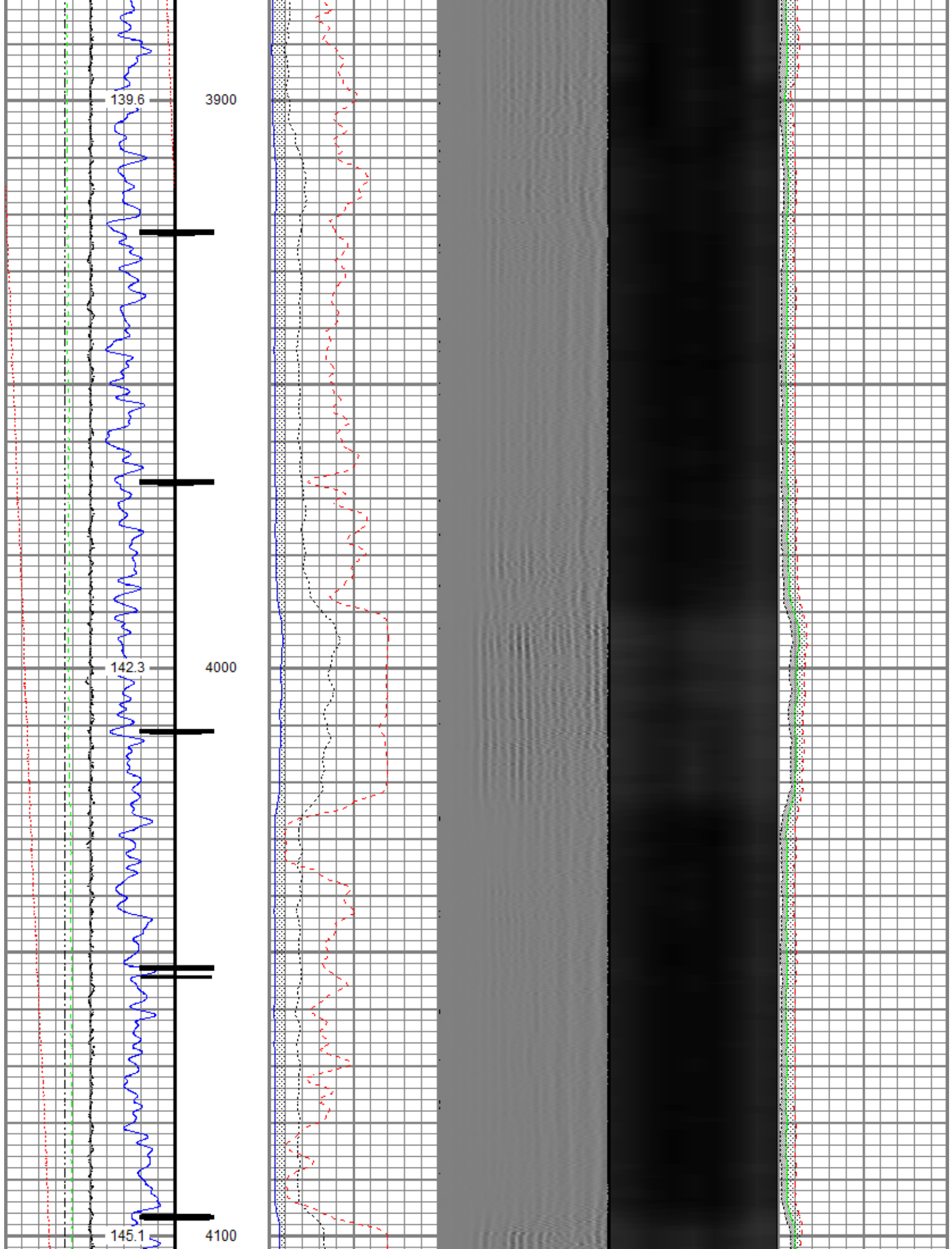


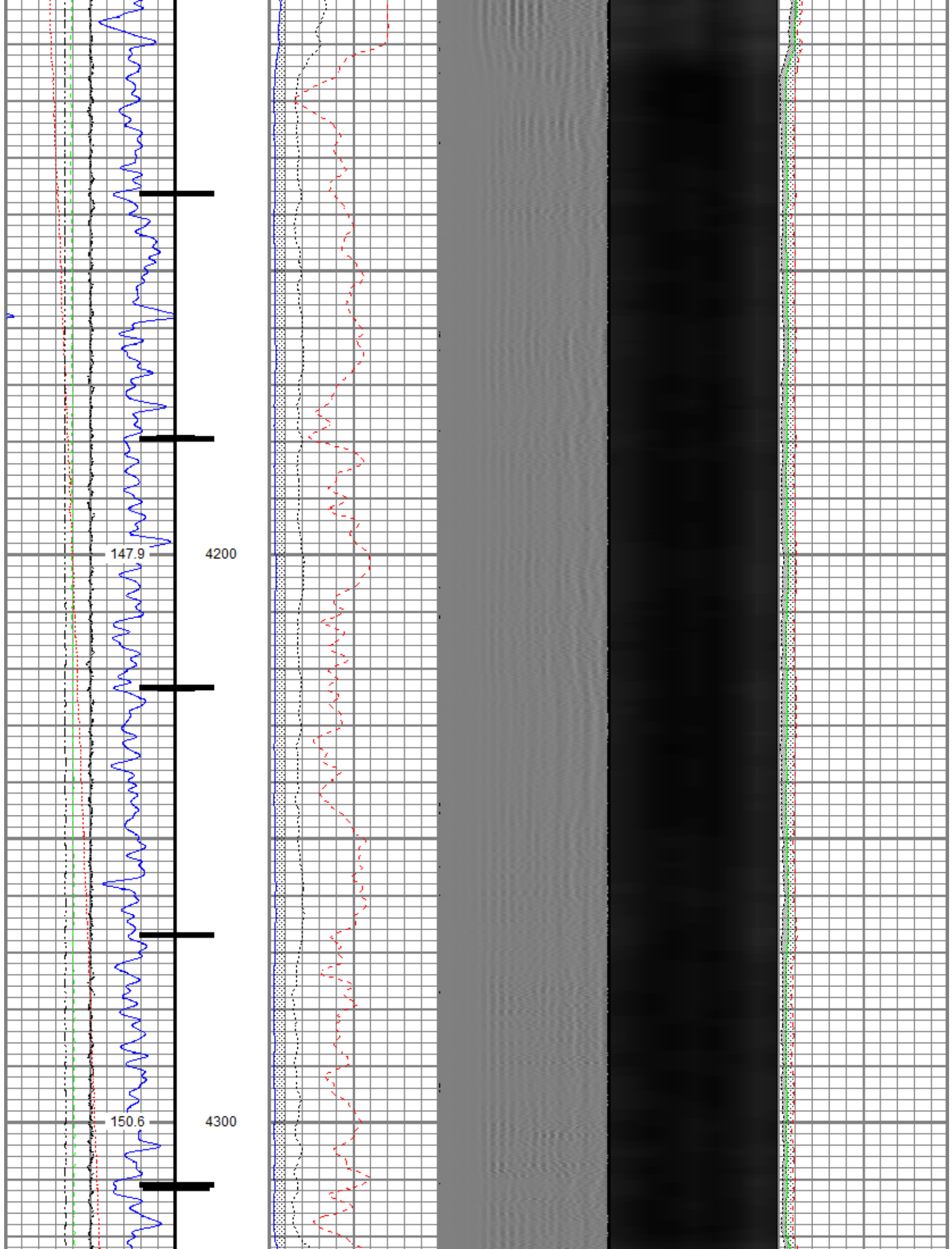


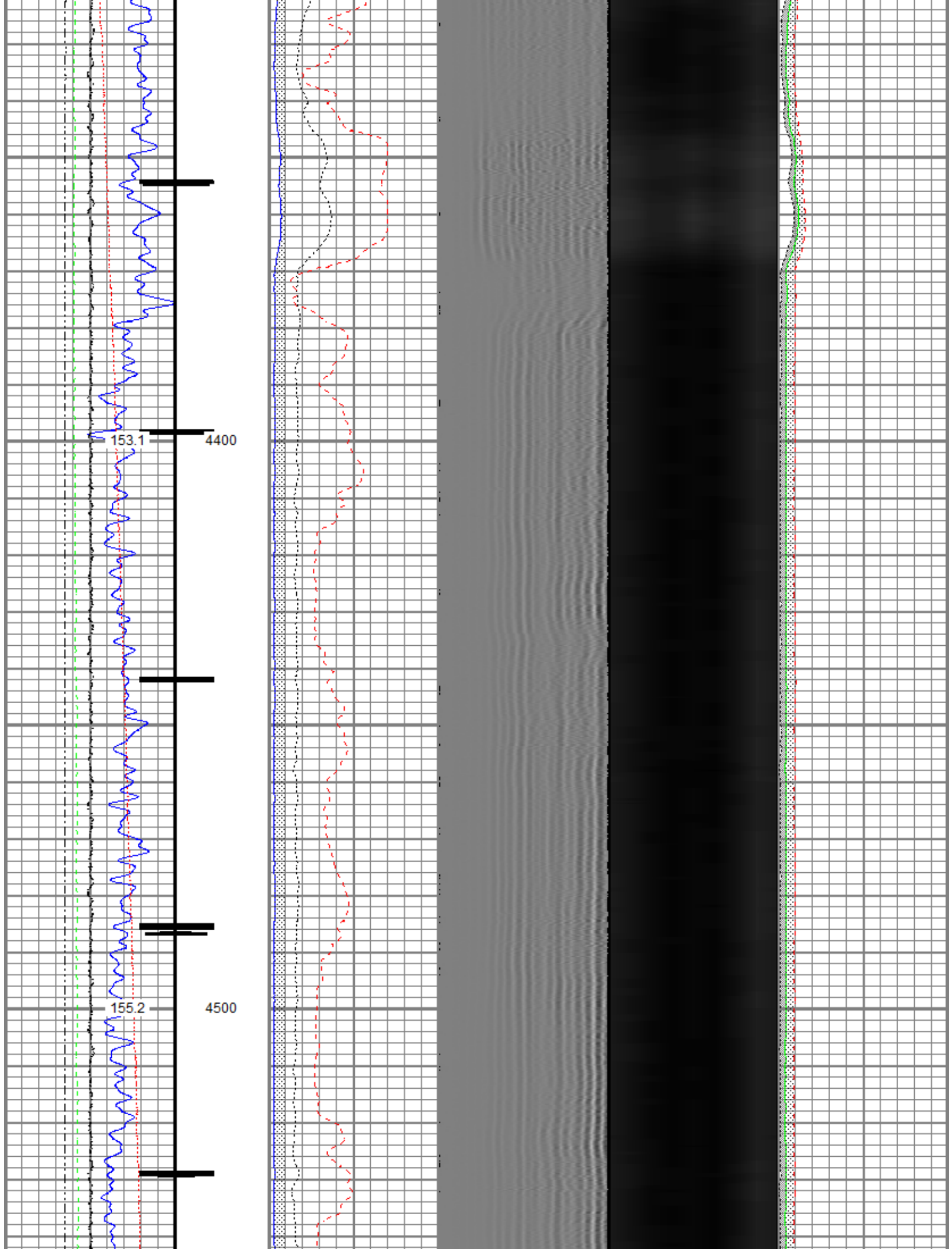


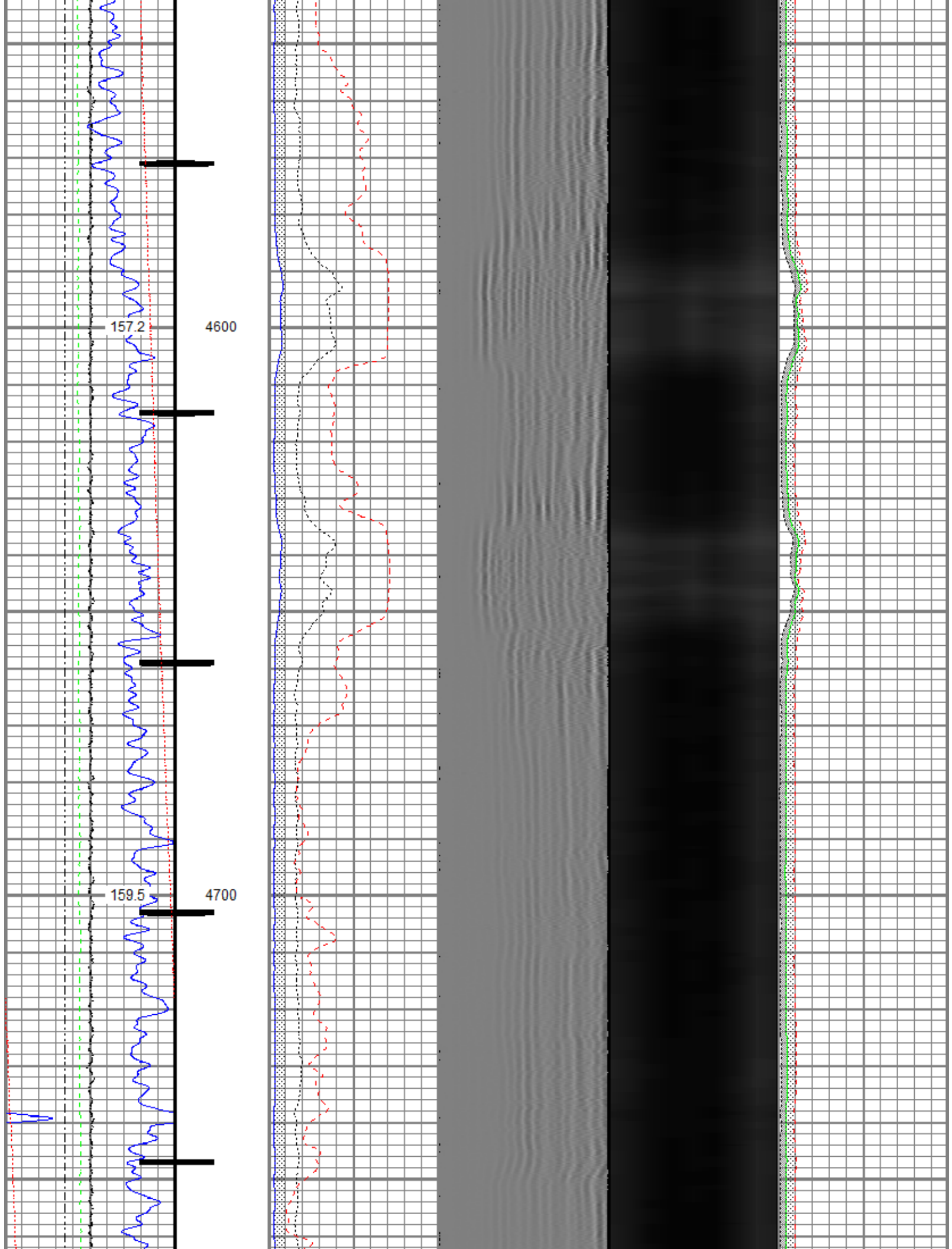


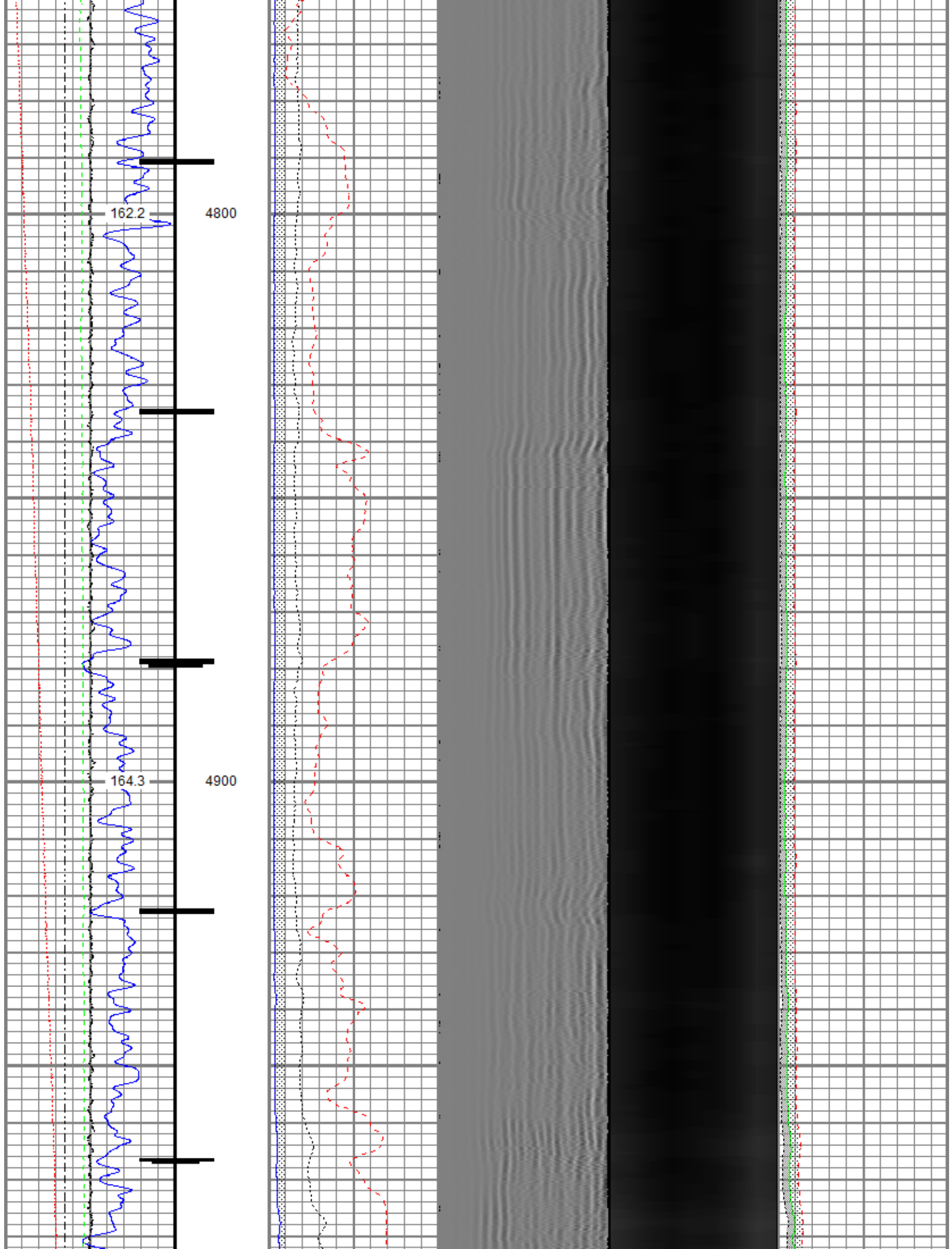


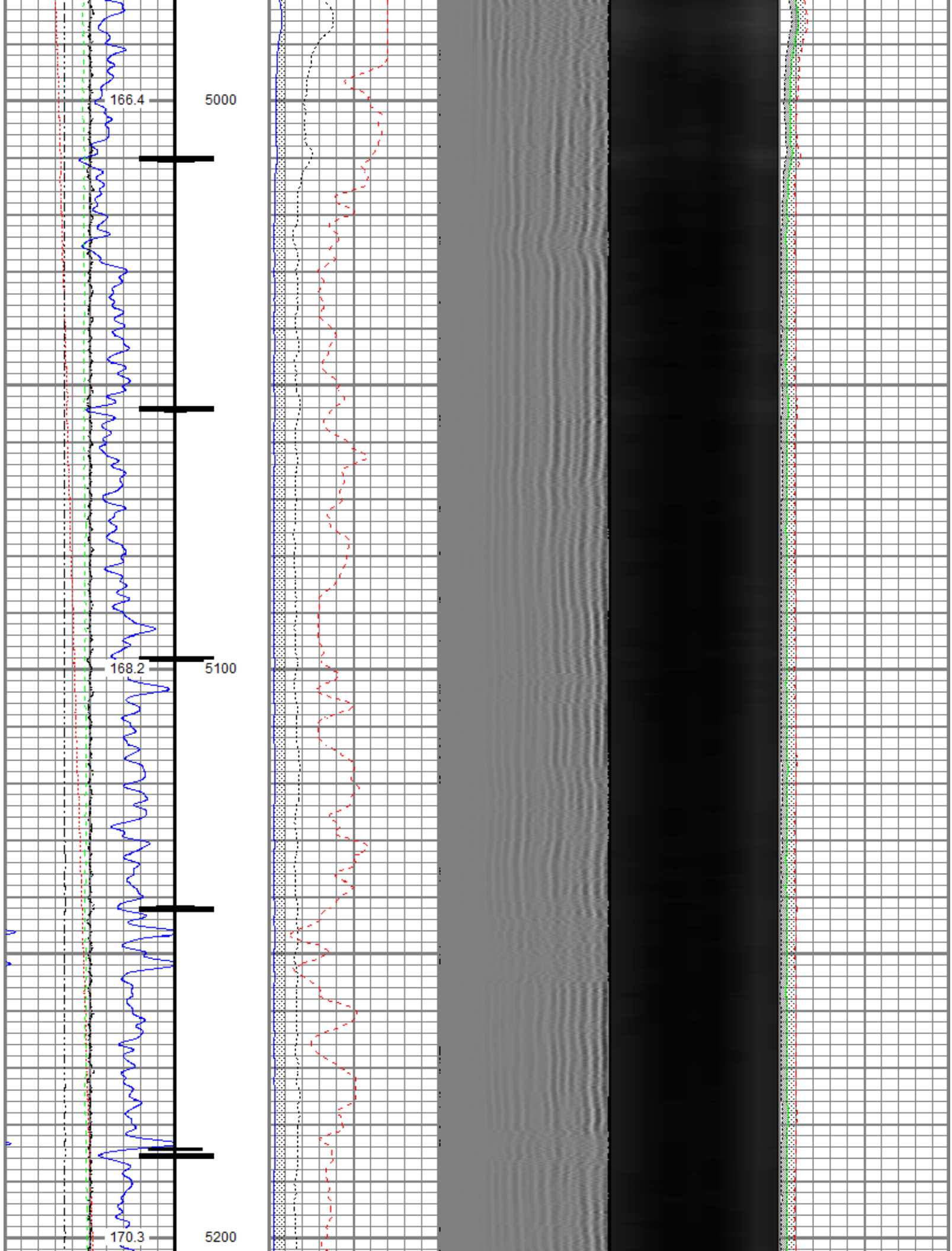


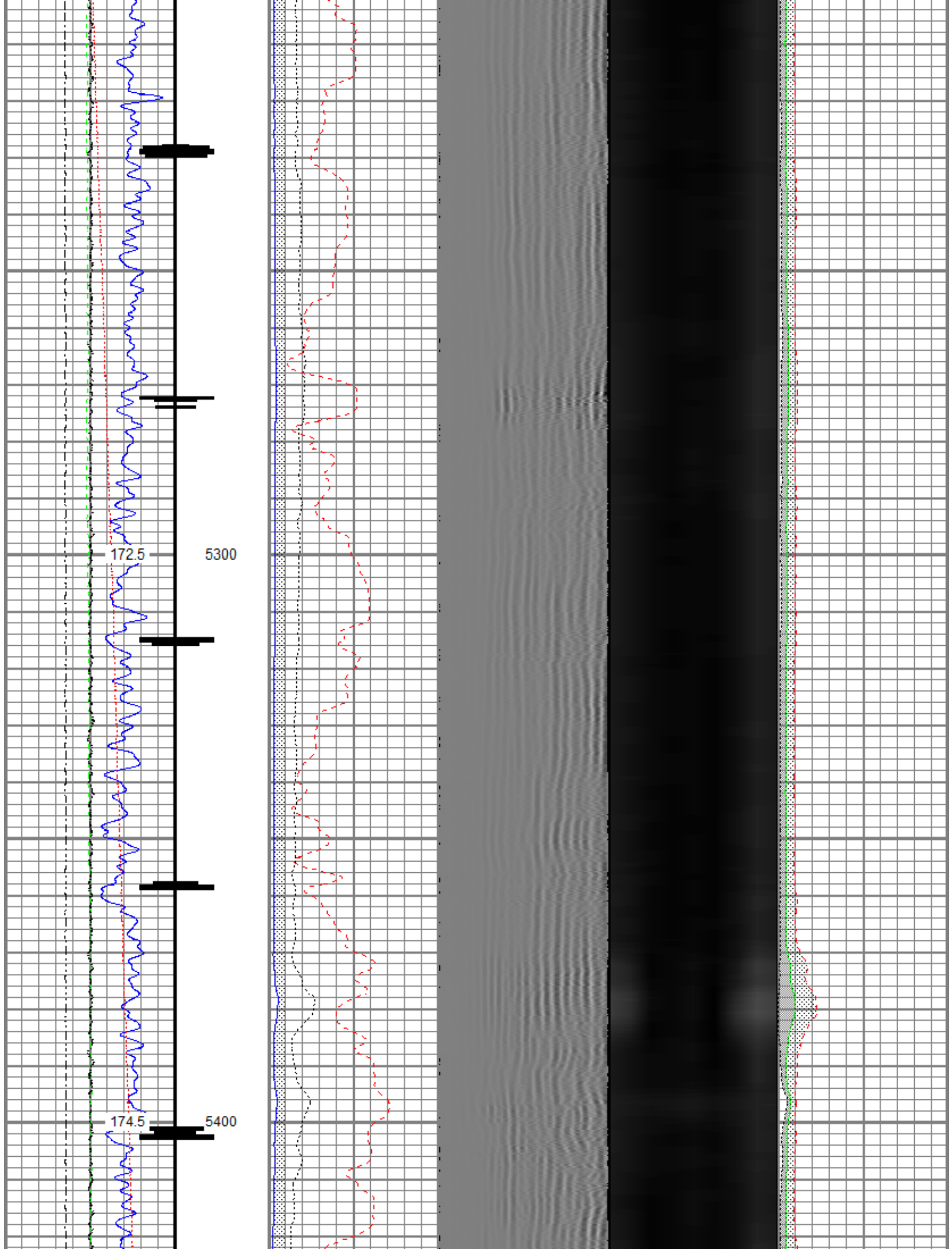


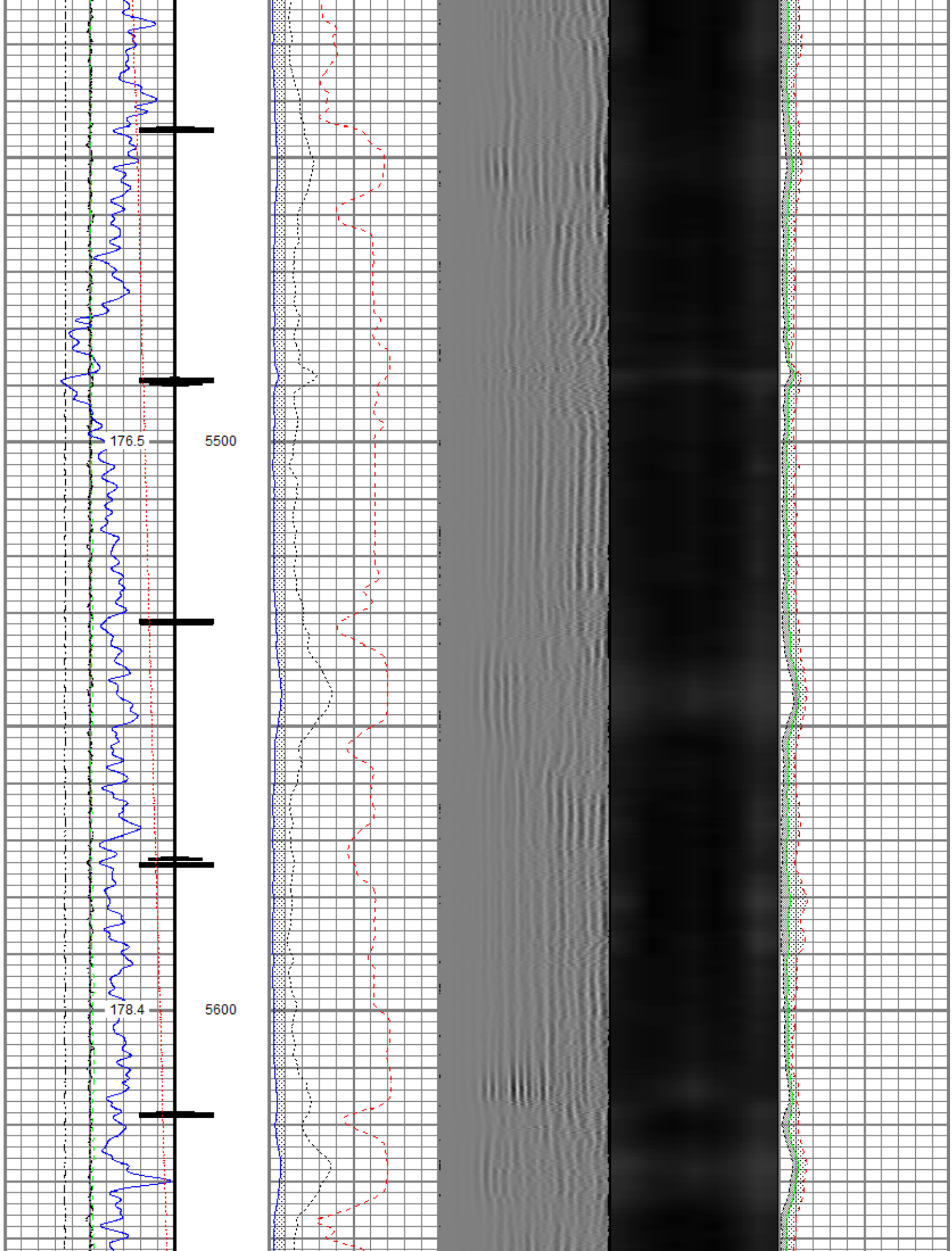


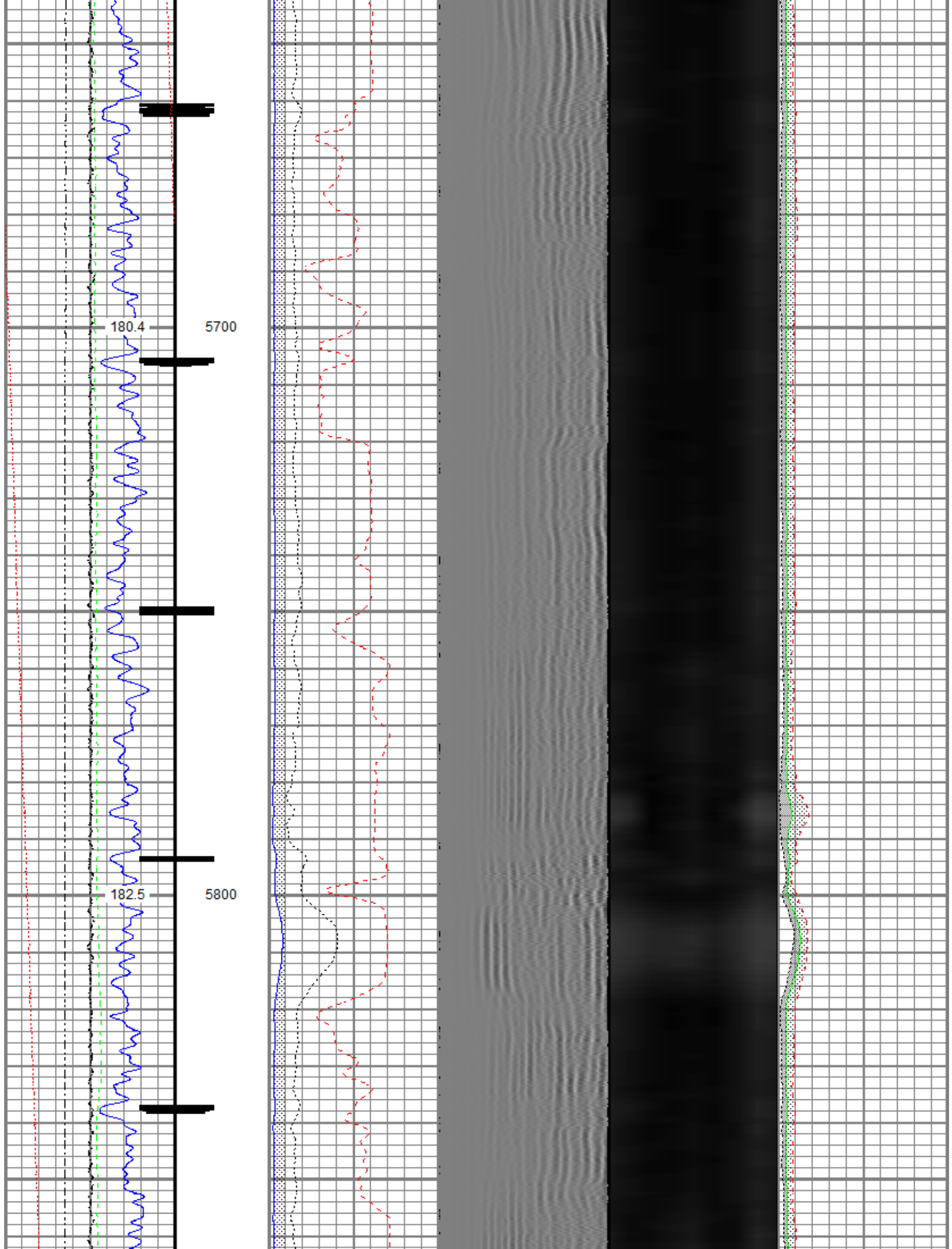


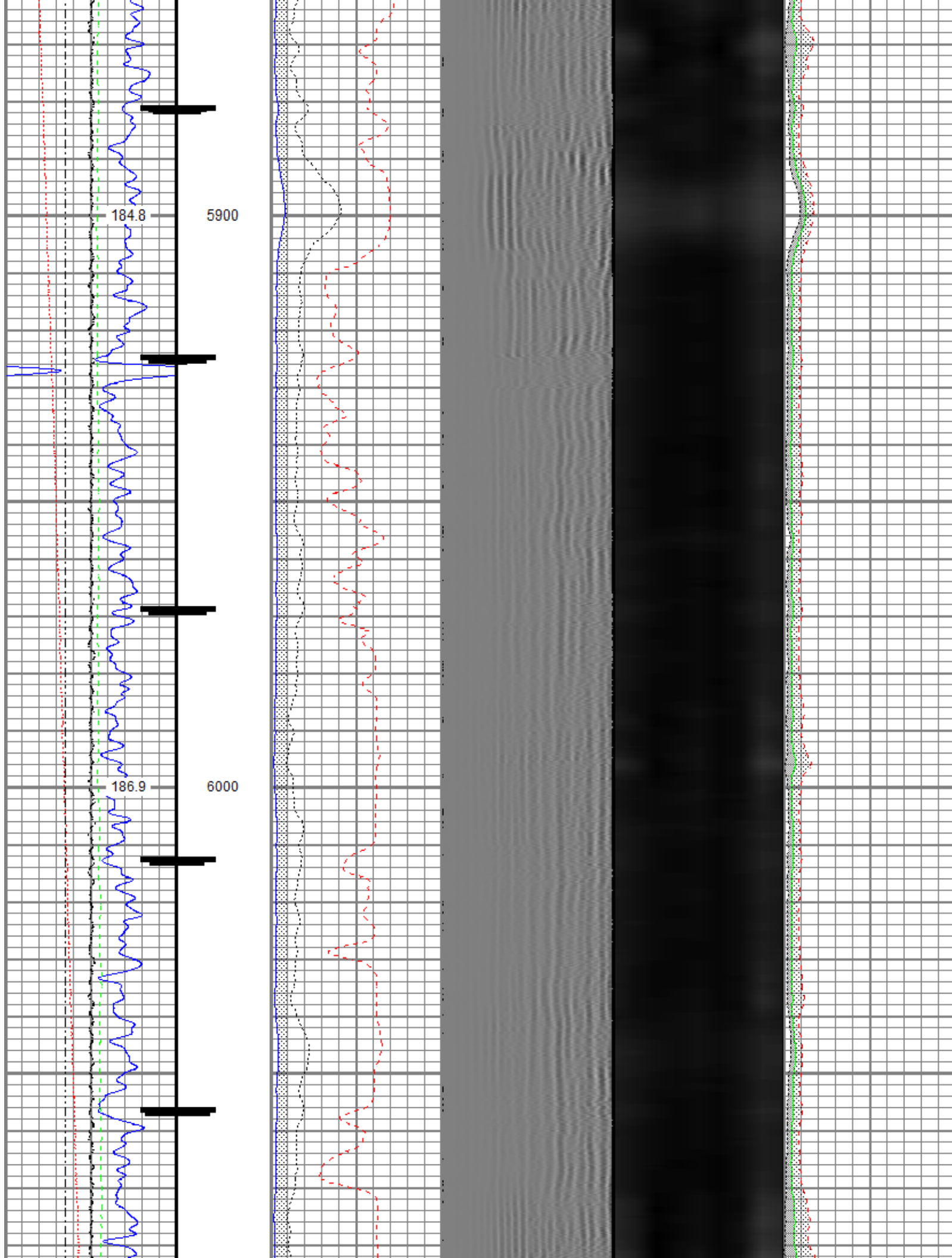


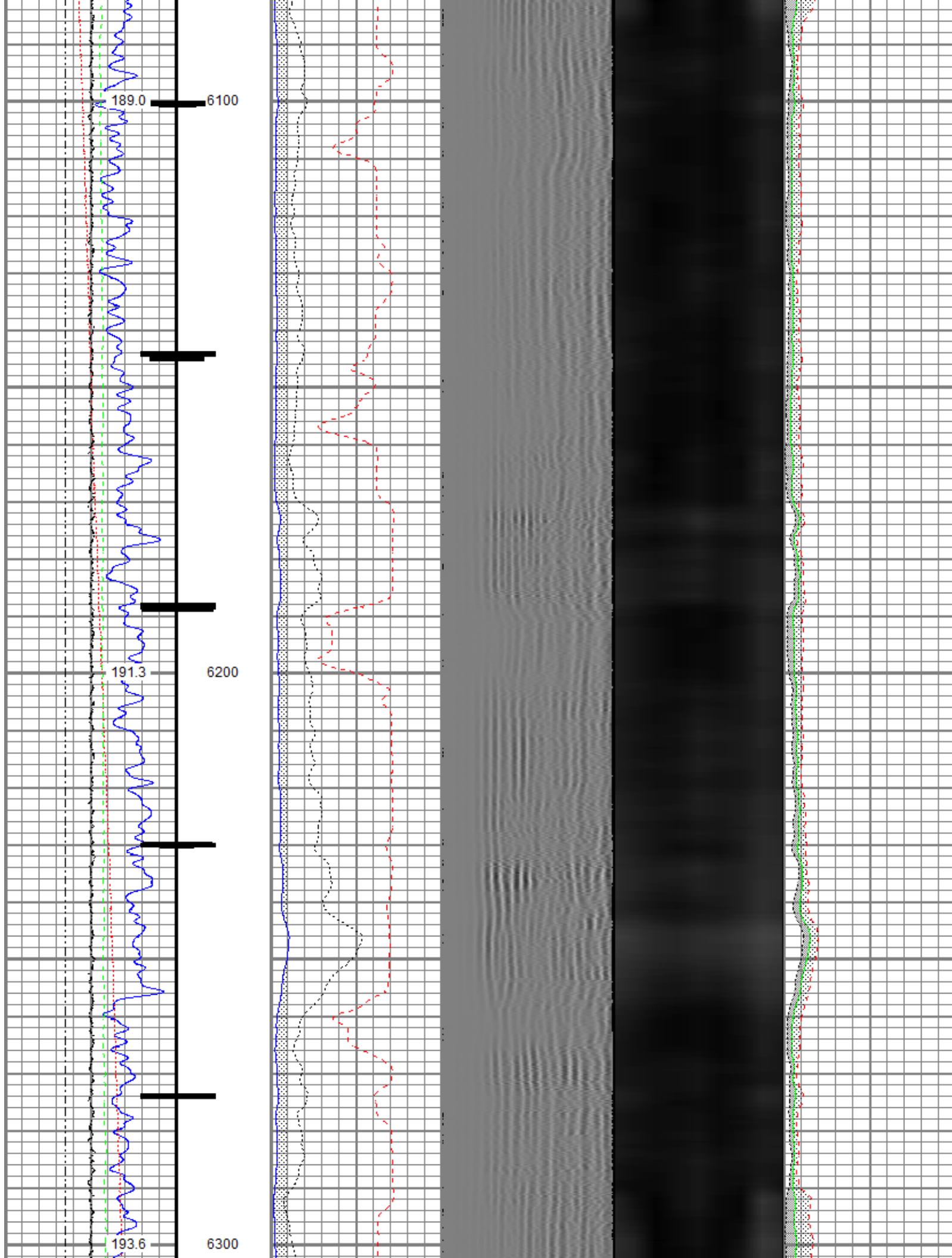


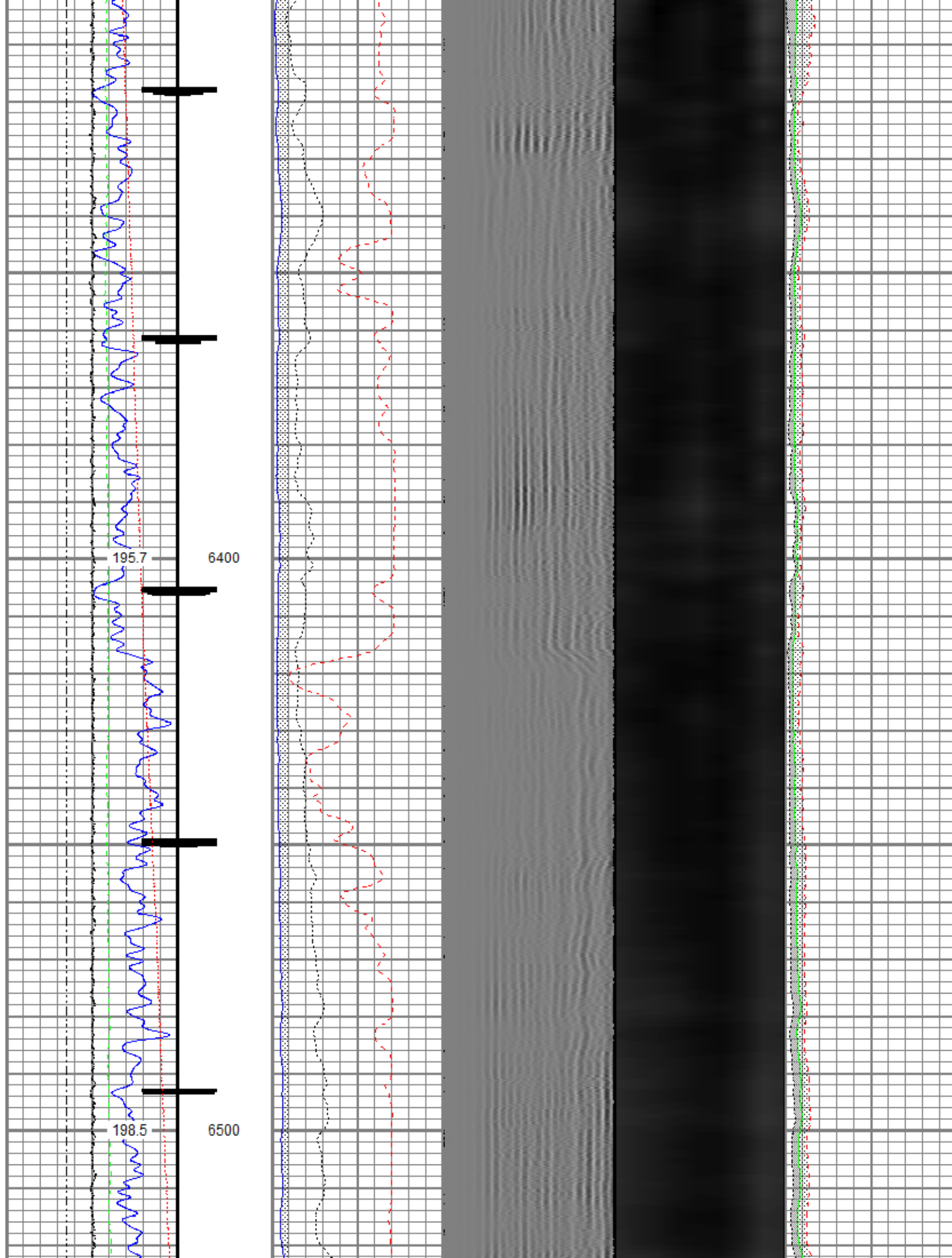


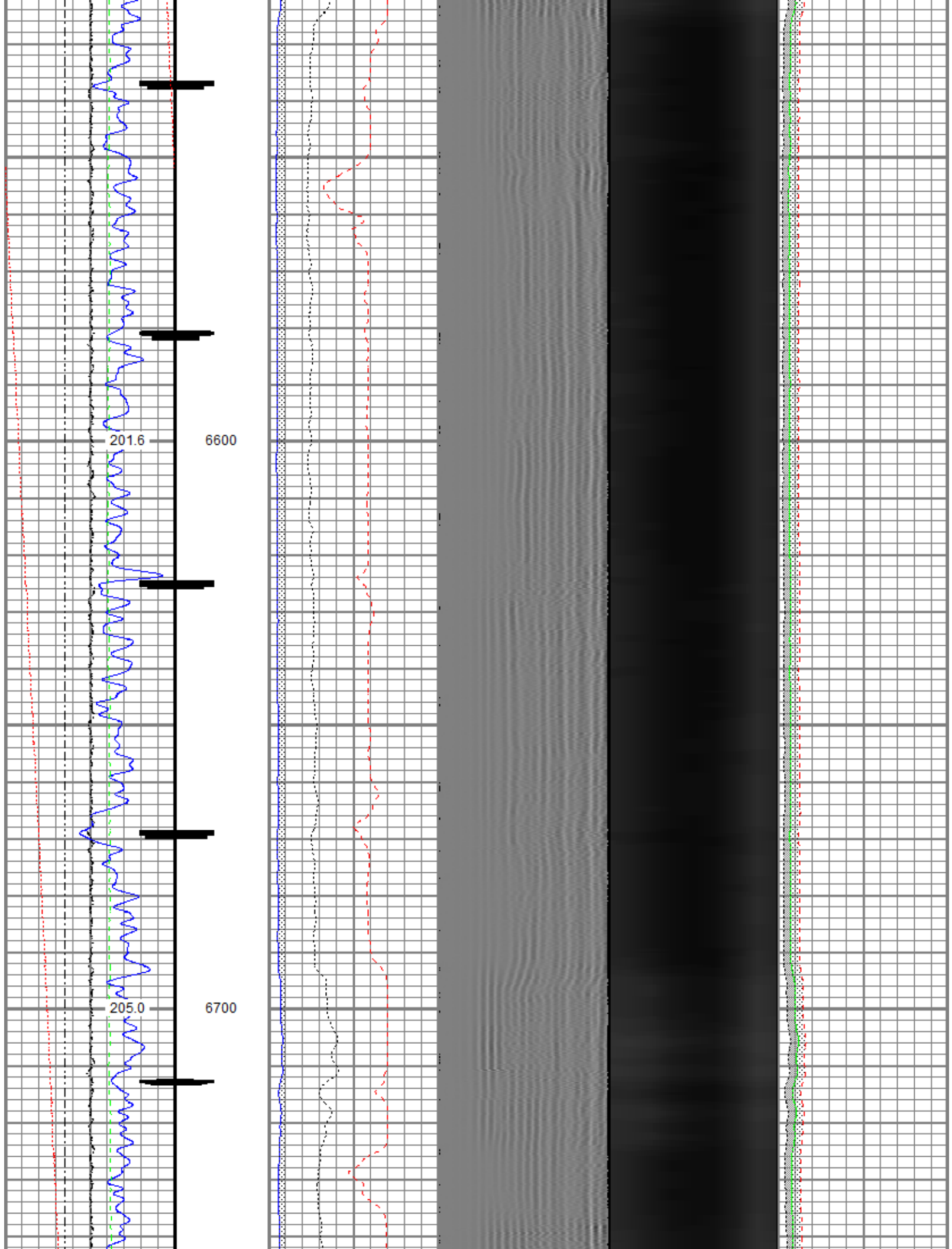


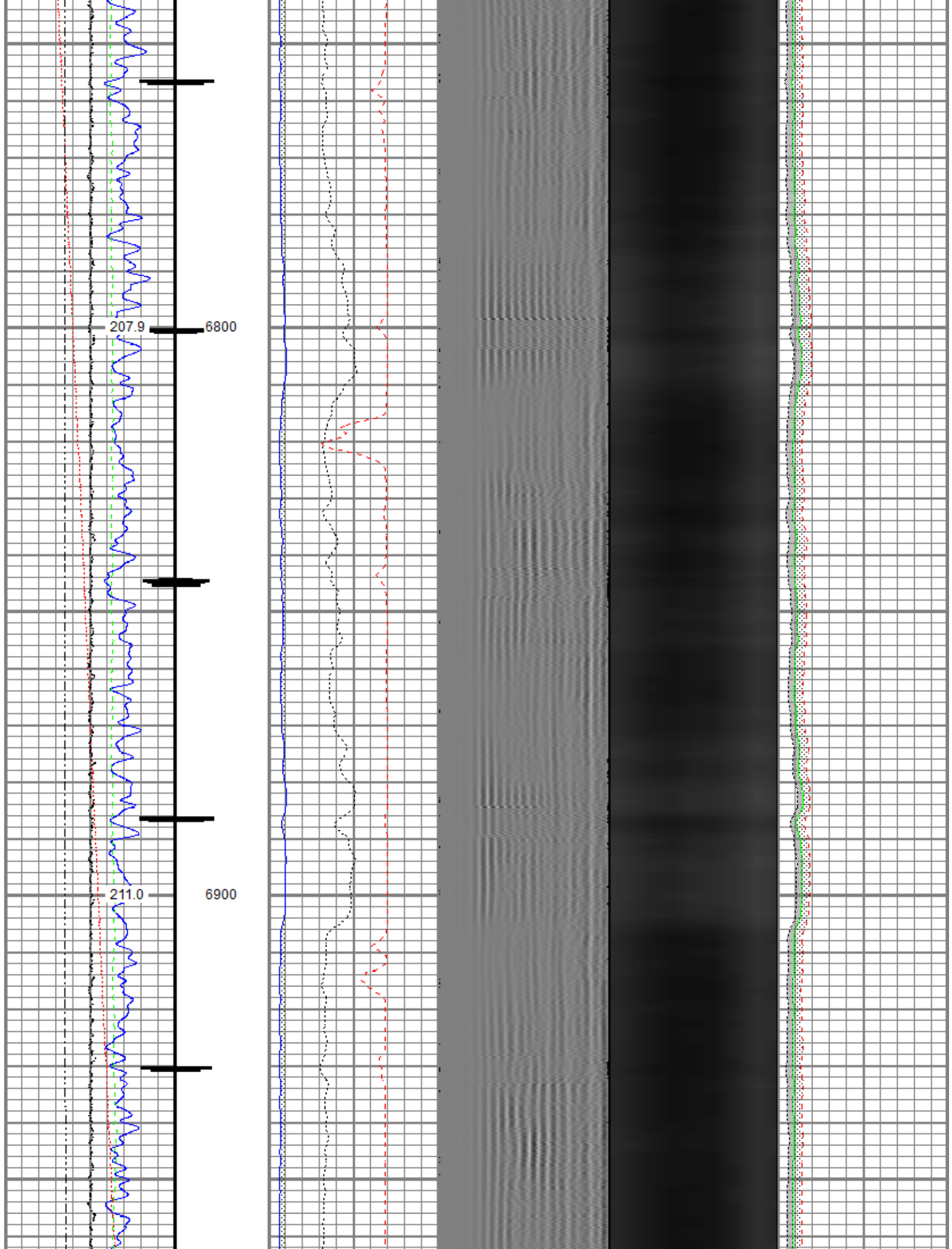


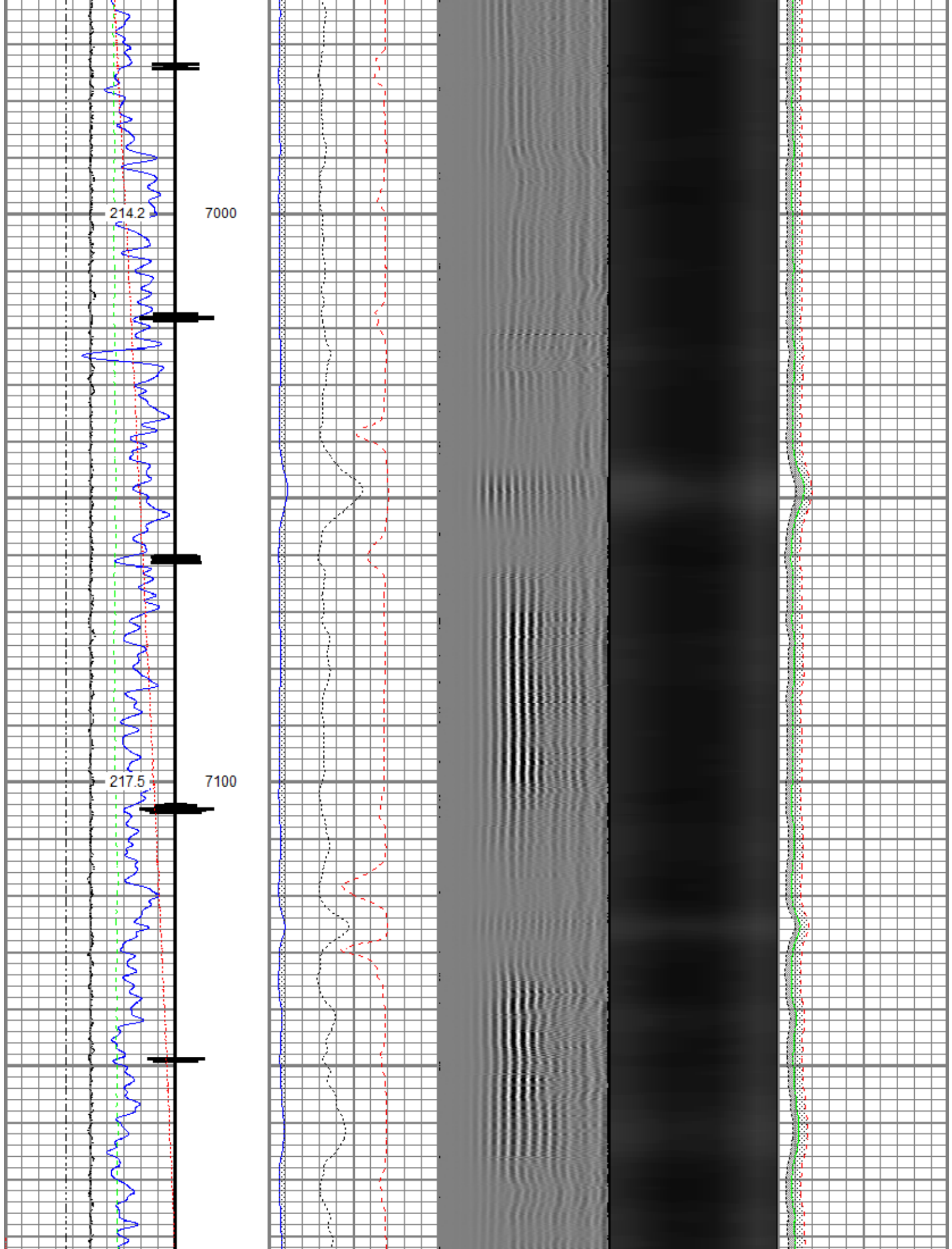


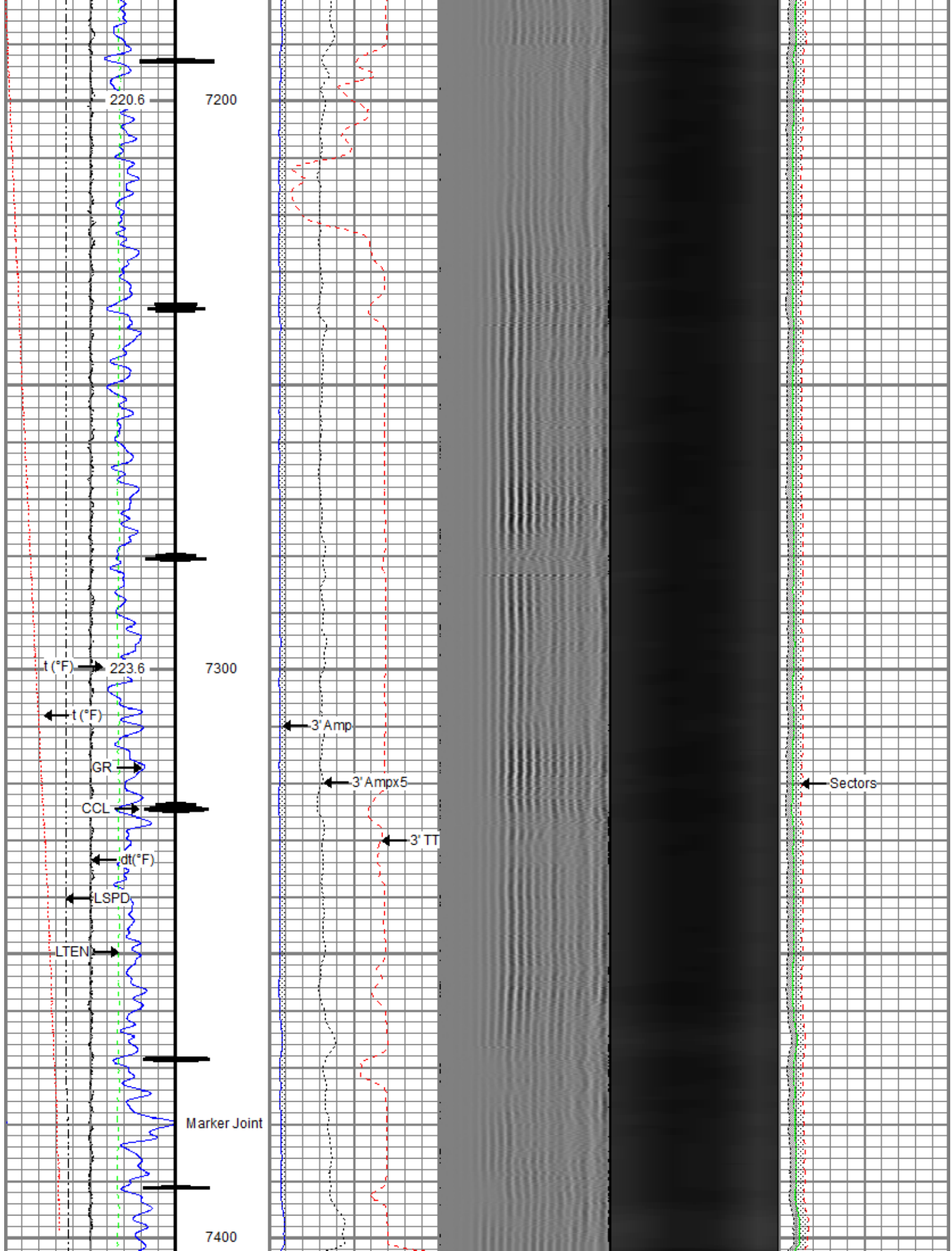


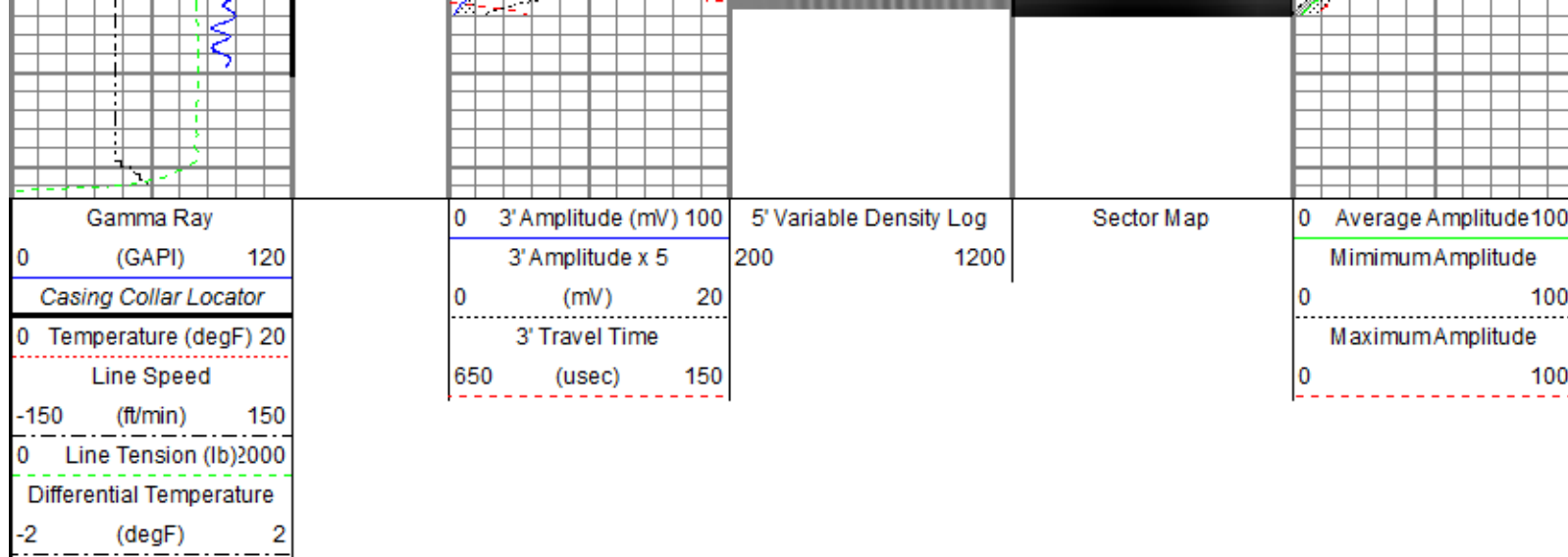








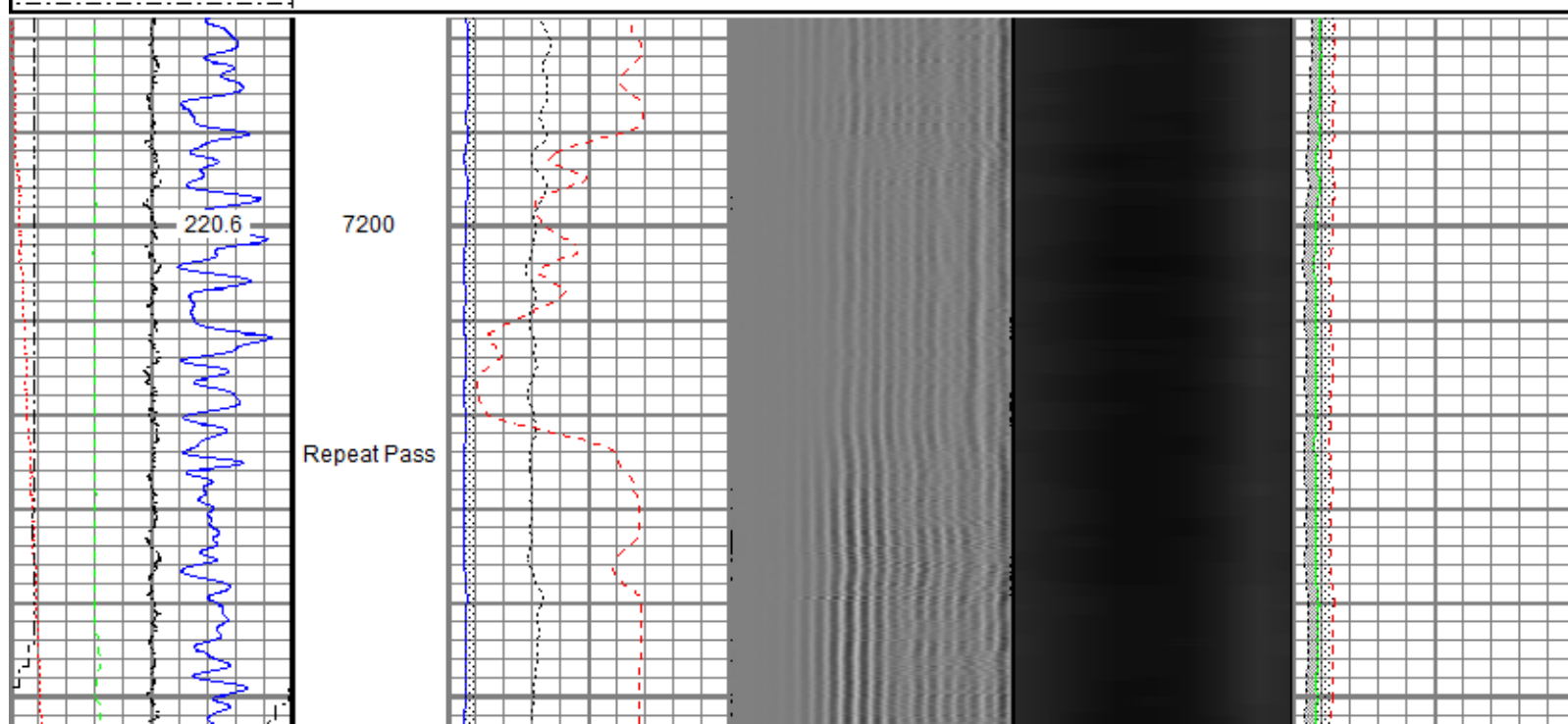
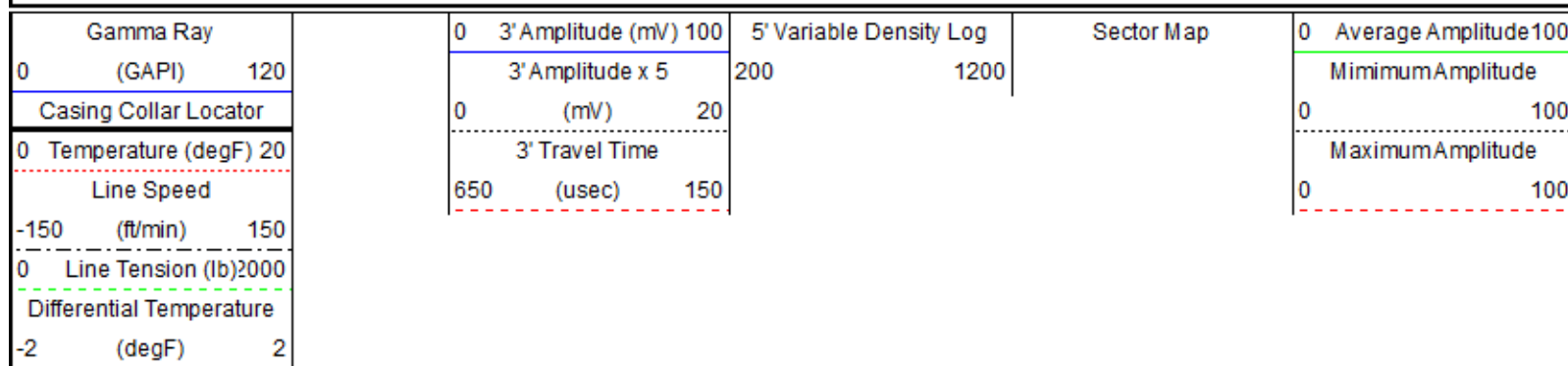


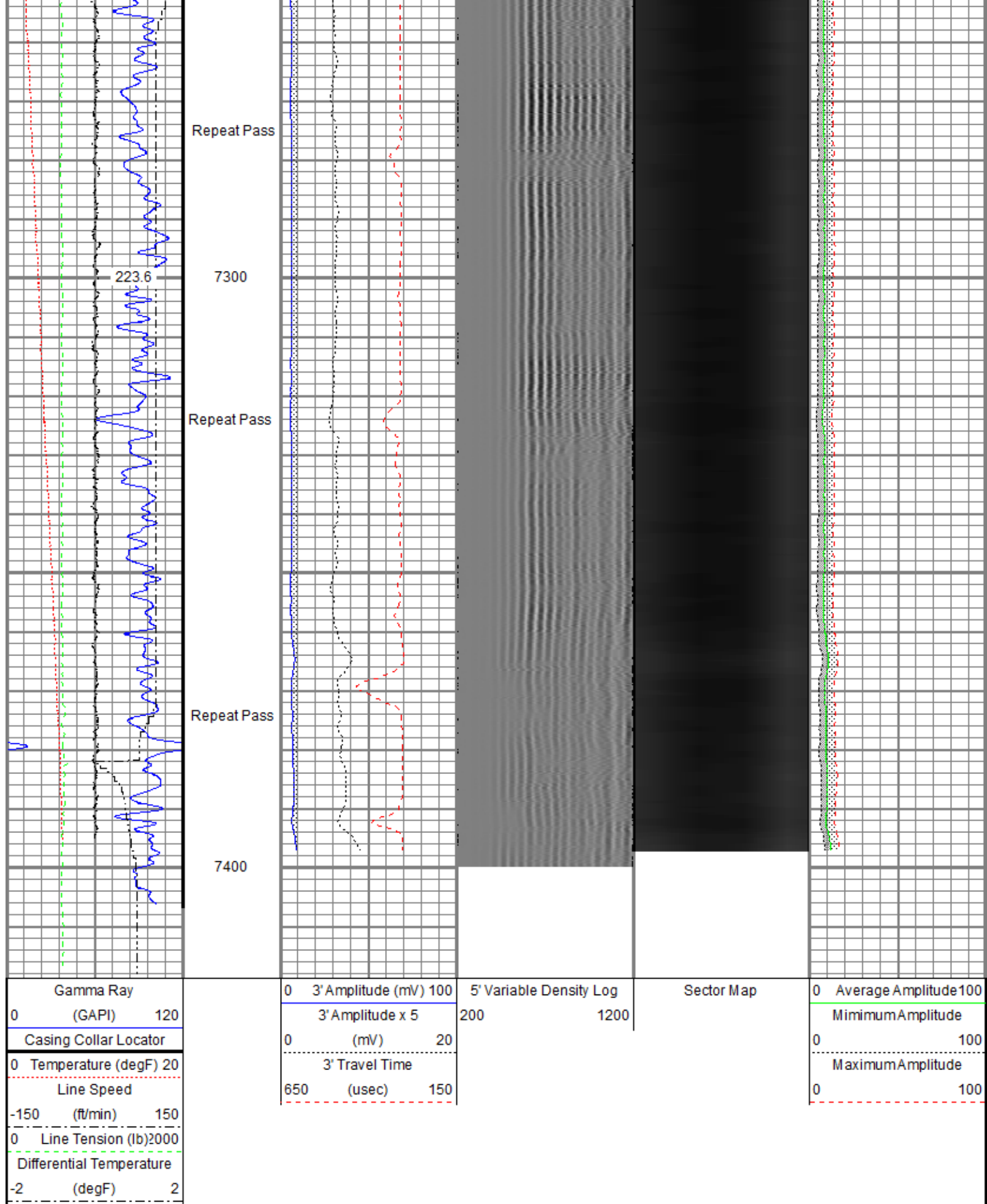



Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File 0512345494_anadarko_yellowhammer 4c-8hz_rbl_cnl_02-19-17\0512345494_anadarko_yellowhammer 4c-8hz_rbl_02-19-17
 Dataset Pathname pass1.1
 Presentation Format ros_radrii
 Dataset Creation Tue Feb 20 07:18:55 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 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	22.08						
WVFS8	19.84			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	19.84						
WVFS6	19.84						
WVFS5	19.84						
WVFS4	19.84						
WVFS3	19.84						
WVFS2	19.84						
WVFS1	19.84						
WVFCAL	19.84						
WVF3FT	19.84			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
WVF5FT	18.84						
CCL\$2	11.83						
CCL\$1	11.83						
GR	10.50			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
CNLS	4.53			Probe CN-2750 BL (FW1308-020_A1483) Probe 2-3/4" Compensated Neutron with Bottom Load	5.03	2.75	60.00
CNSSC	4.12						
				Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: 0512345494_Anadarko_Yellowhammer 4C-8HZ_RBL_02-19-17.db: field/well/run1/pass2.2 Total length: 28.90 ft Total weight: 283.60 lb O.D.: 2.75 in							

Compensated Neutron Calibration Report

Serial Number:	FW1308-020_A1483
Tool Model:	2750 BL

CALIBRATION

Wed Oct 11 09:42:11 2017

Detector	Readings	Target	Normalization
Short Space	3241.60 cps	0.00 cps	1.0000
Long Space	452.04 cps	0.00 cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

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

Calibrator Value:	637.0	GAPI
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Background Reading:	100.6	cps
Calibrator Reading:	981.1	cps

Sensitivity:	0.7235	GAPI/cps
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Segmented Cement Bond Log Calibration Report

Serial Number:	FW1308-091
Tool Model:	2750 RBT

Calibration Casing Diameter:	5.500	in
Calibration Depth:	45.900	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	0.473	0.800	71.921	146.576	2.529
CAL	0.003	0.523				
5'	-0.005	0.466	0.800	71.921	151.067	1.546

SUM						
S1	-0.039	0.466	0.000	100.000	197.845	7.734
S2	-0.026	0.471	0.000	100.000	201.419	5.222
S3	-0.009	0.478	0.000	100.000	205.145	1.927
S4	0.001	0.491	0.000	100.000	204.102	-0.143
S5	0.001	0.502	0.000	100.000	199.606	-0.186
S6	-0.002	0.494	0.000	100.000	201.774	0.381
S7	-0.022	0.478	0.000	100.000	200.234	4.325
S8	-0.049	0.475	0.000	100.000	190.829	9.442

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.523	1.000	0.000

Air Zero Calibration, performed Mon Feb 19 09:22:34 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.004		0.000		0.000	
5'	0.003		0.000		0.000	
SUM						
S1	0.004		0.000		0.000	
S2	0.003		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	0.004		0.000		-0.000	
S7	0.004		0.000		0.000	
S8	0.004		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 Yellowhammer 4C-8HZ
Field Wattenberg
County Weld
State Colorado