



County Weld State Colorado

Elevation

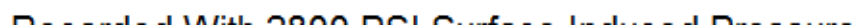

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 of 26 FT  
Adjusted +1 FT to correlate with Kelly Bushing  
Gauge Ring/Junk Basket ran to 7945 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

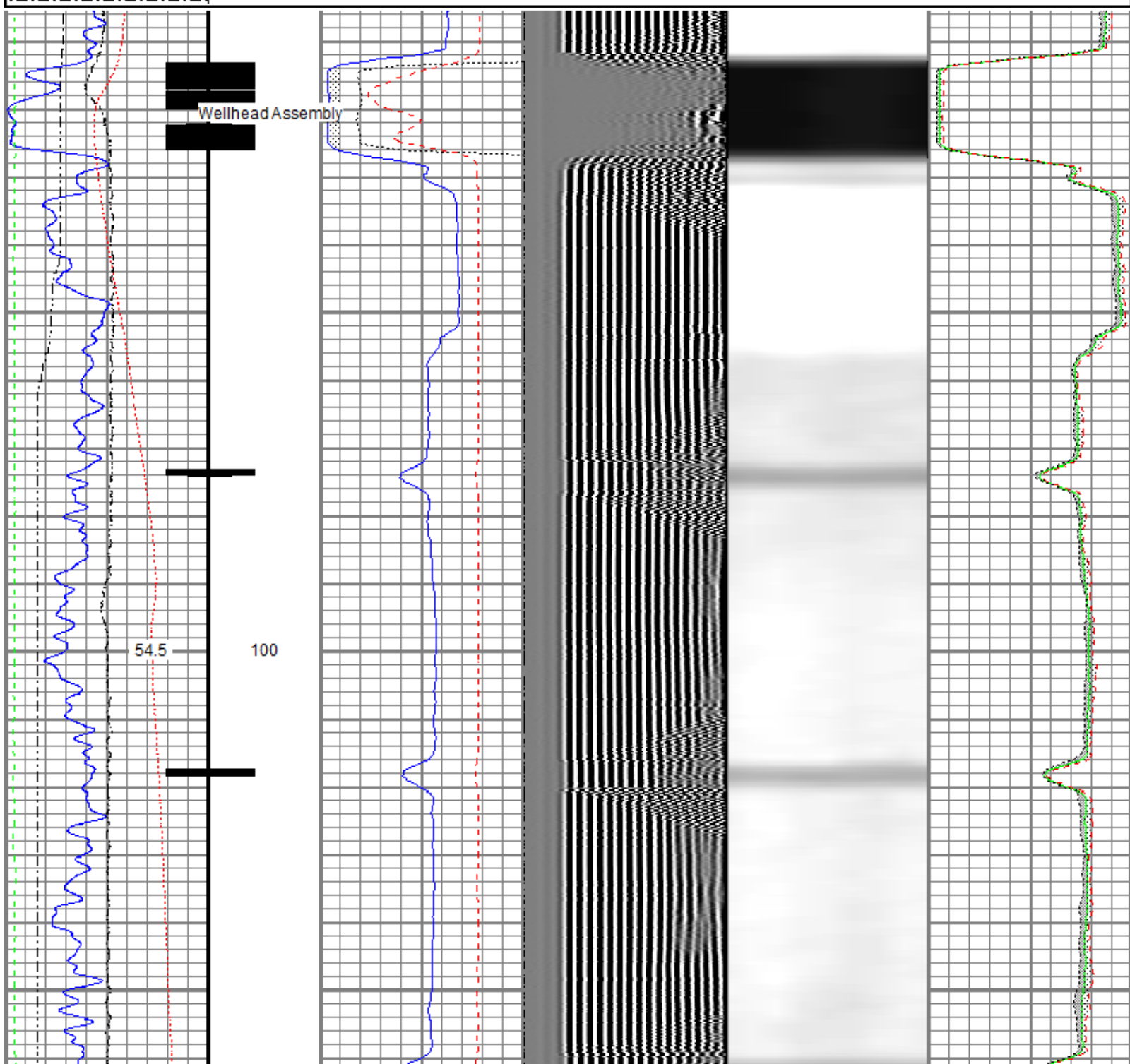
Thank you for choosing Reliance Oilfield Services, LLC!!

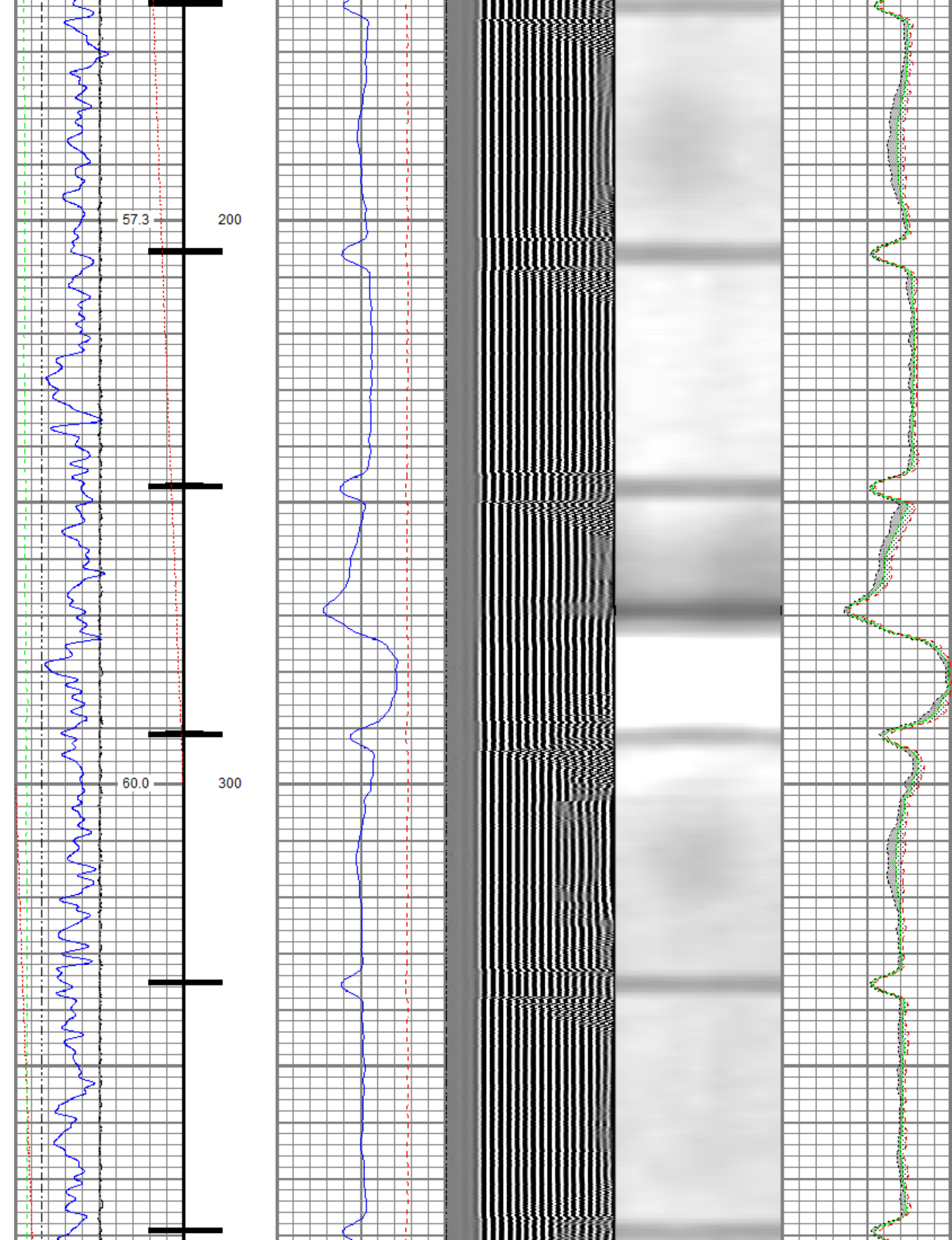
## Main Pass



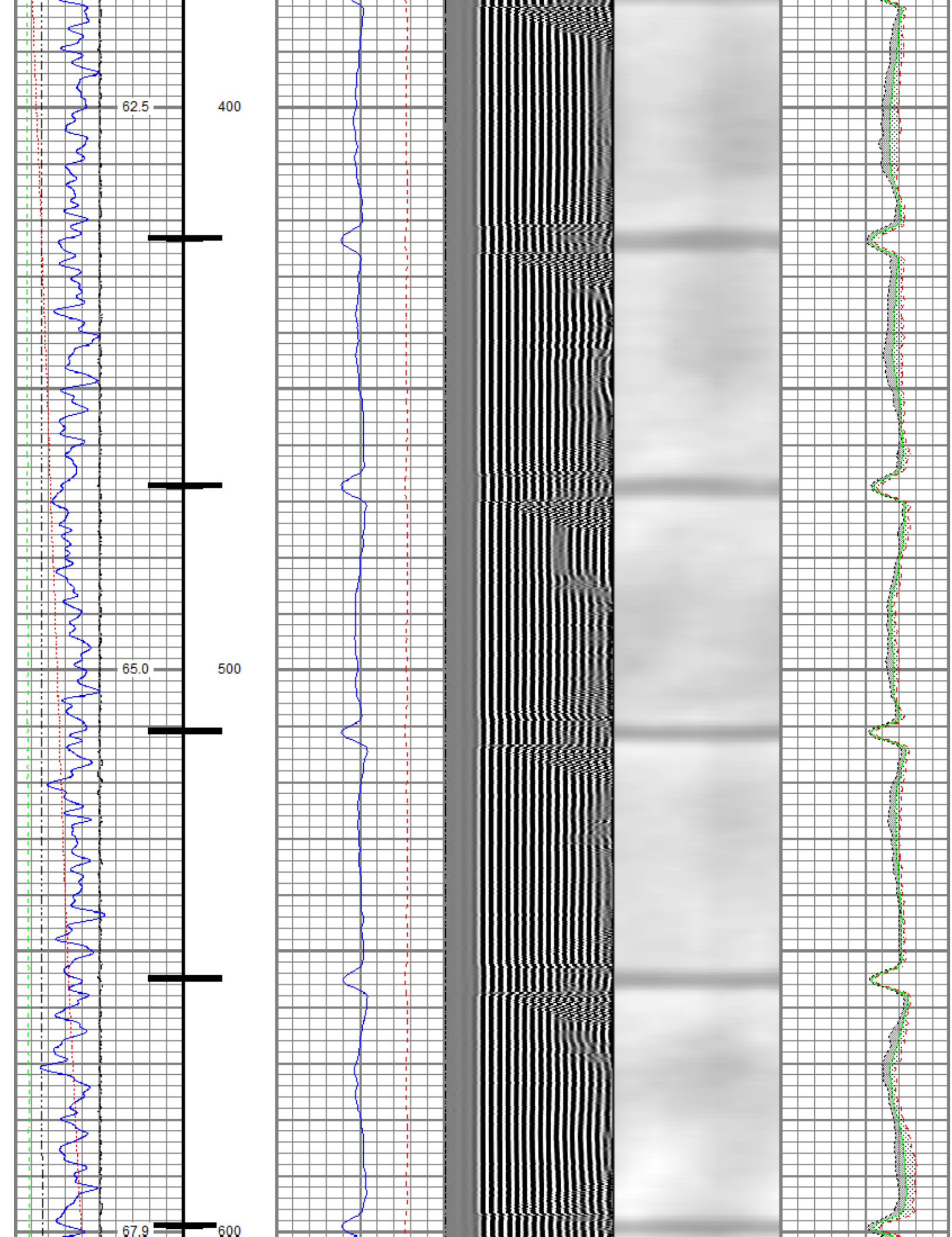
Database File 0512345230\_anadarko\_borough 1n-17hz\_rbl\_01-18-18\0512345230\_anadarko\_borough 1n-17hz\_rbl\_01-18-18.db  
 Dataset Pathname pass4.1  
 Presentation Format ros\_radrii  
 Dataset Creation Thu Jan 18 10:42:17 2018  
 Charted by Depth in Feet scaled 1:240

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

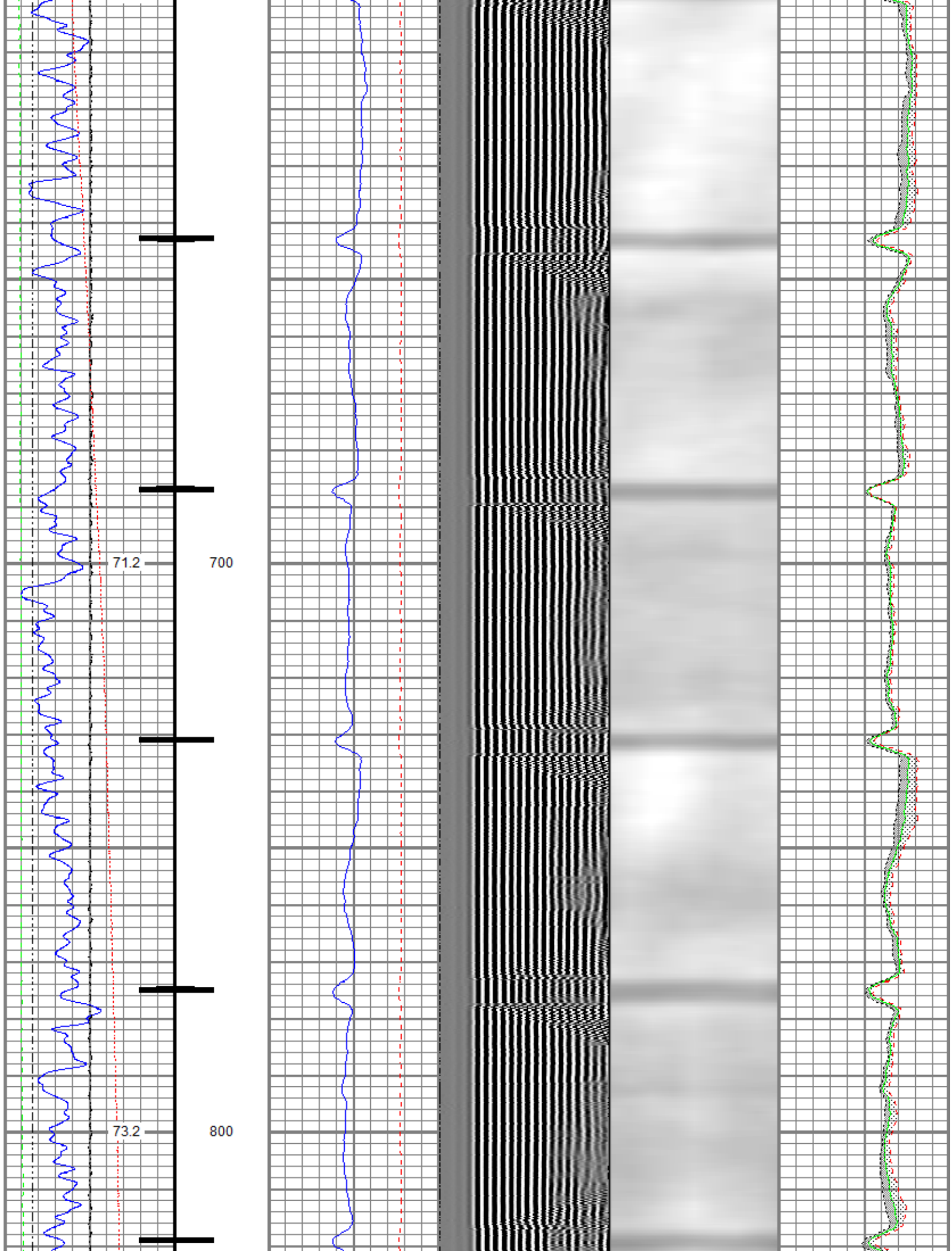


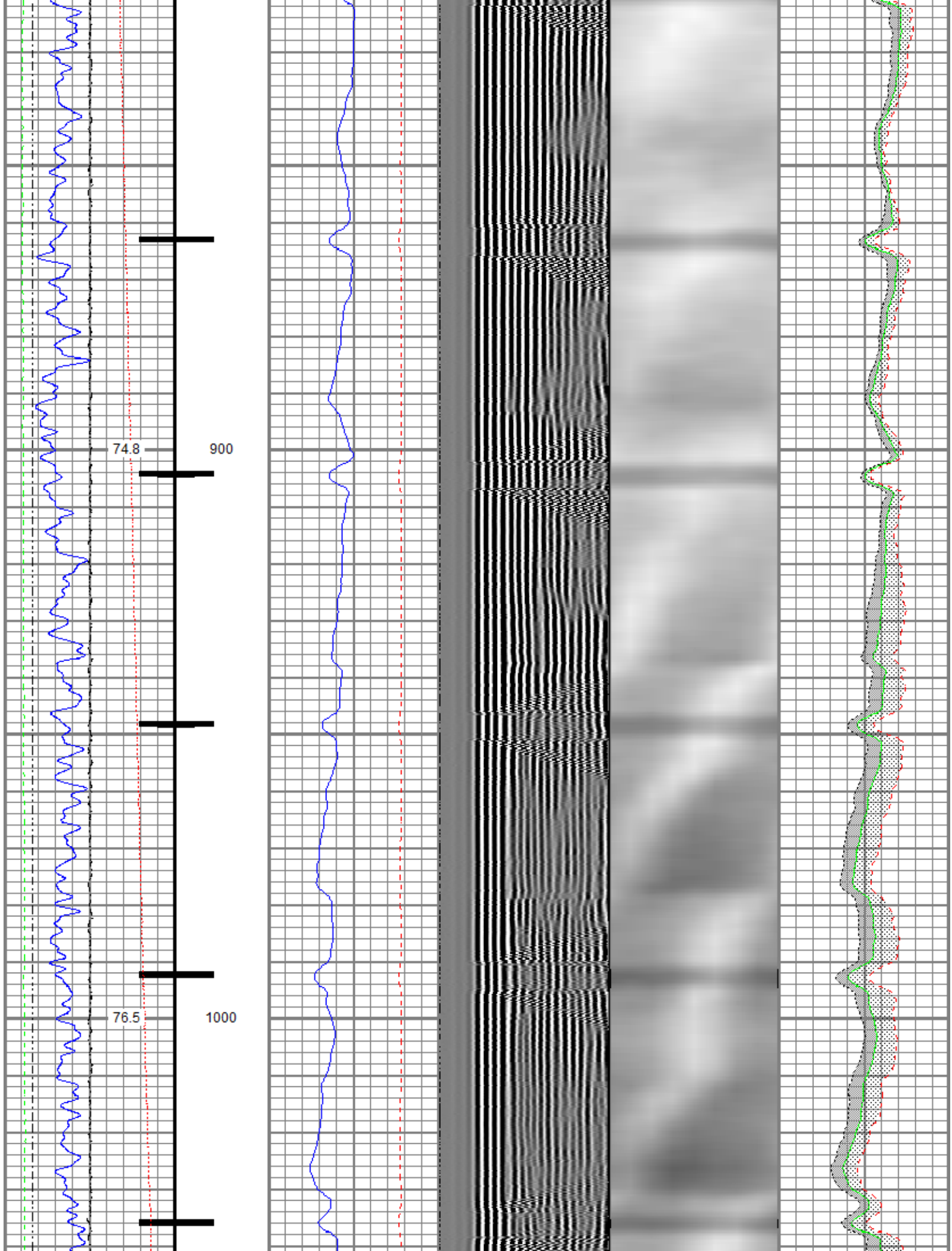


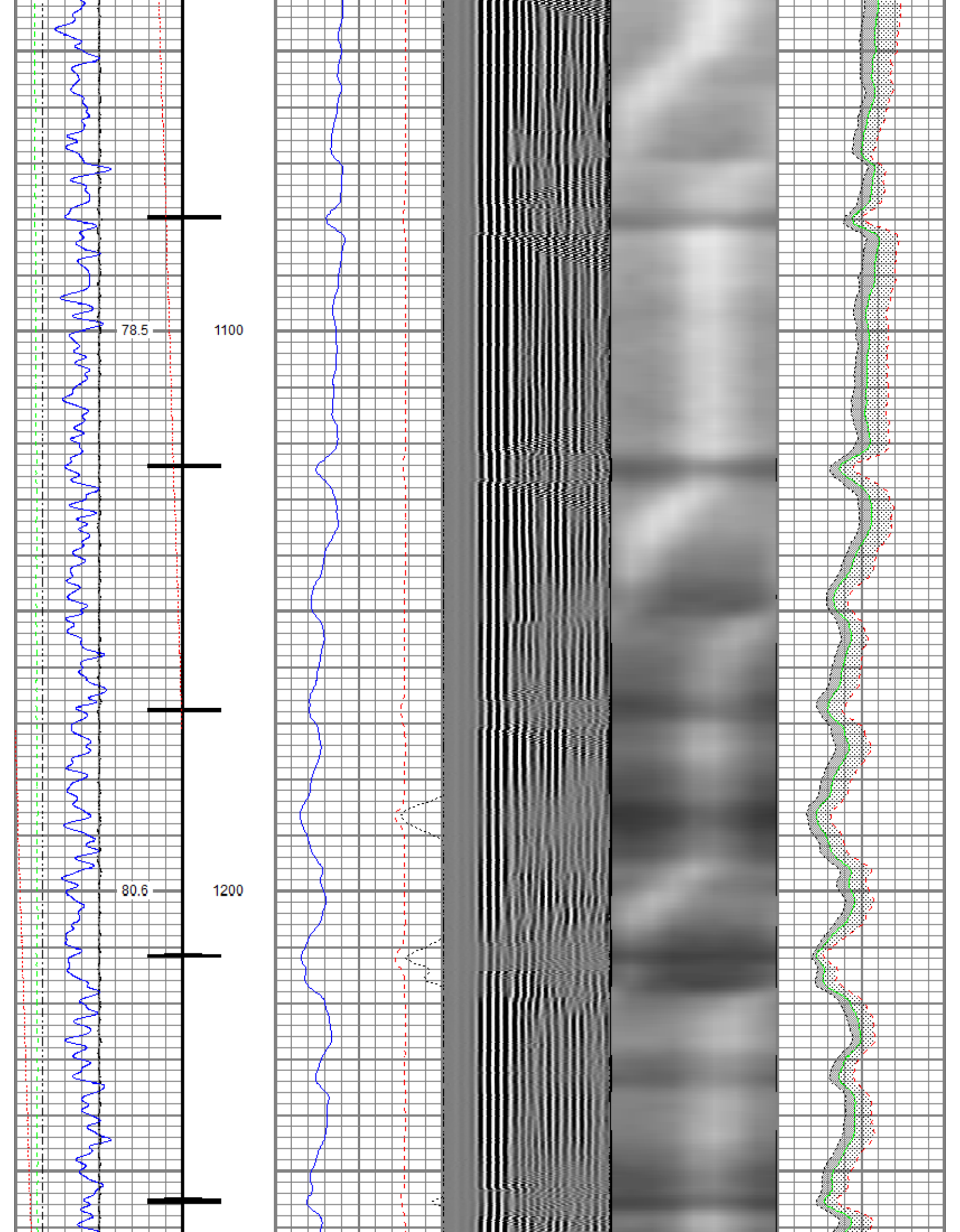




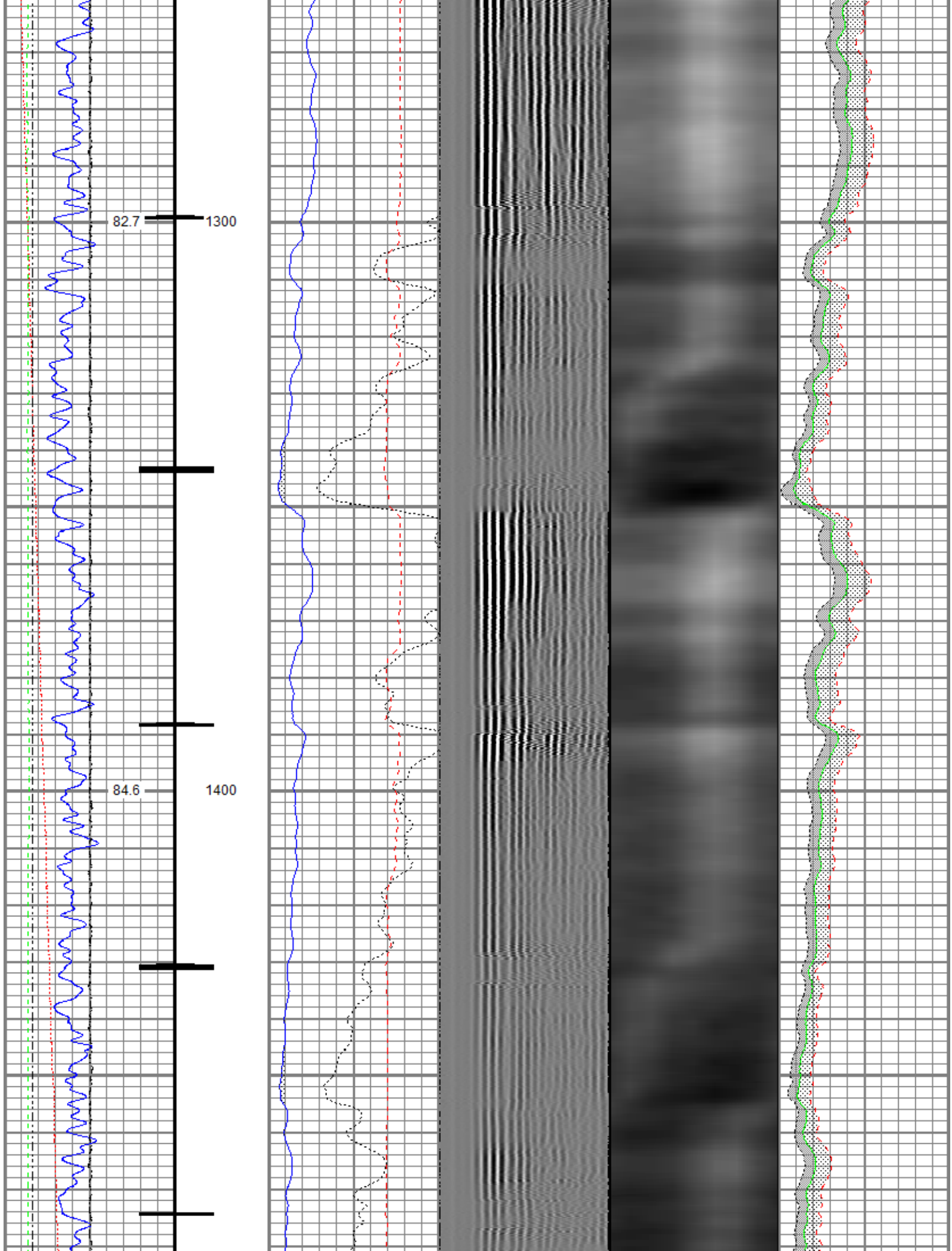


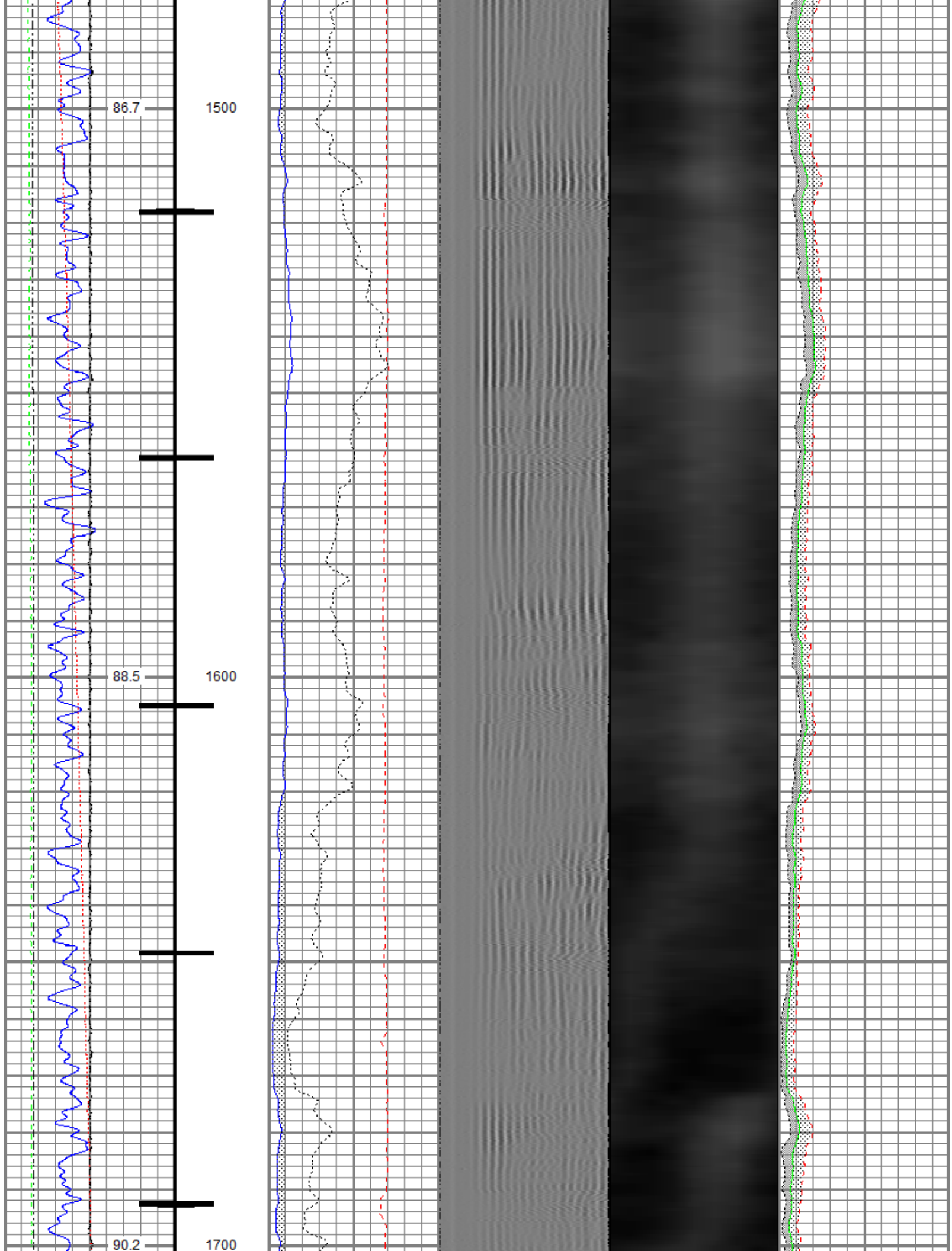


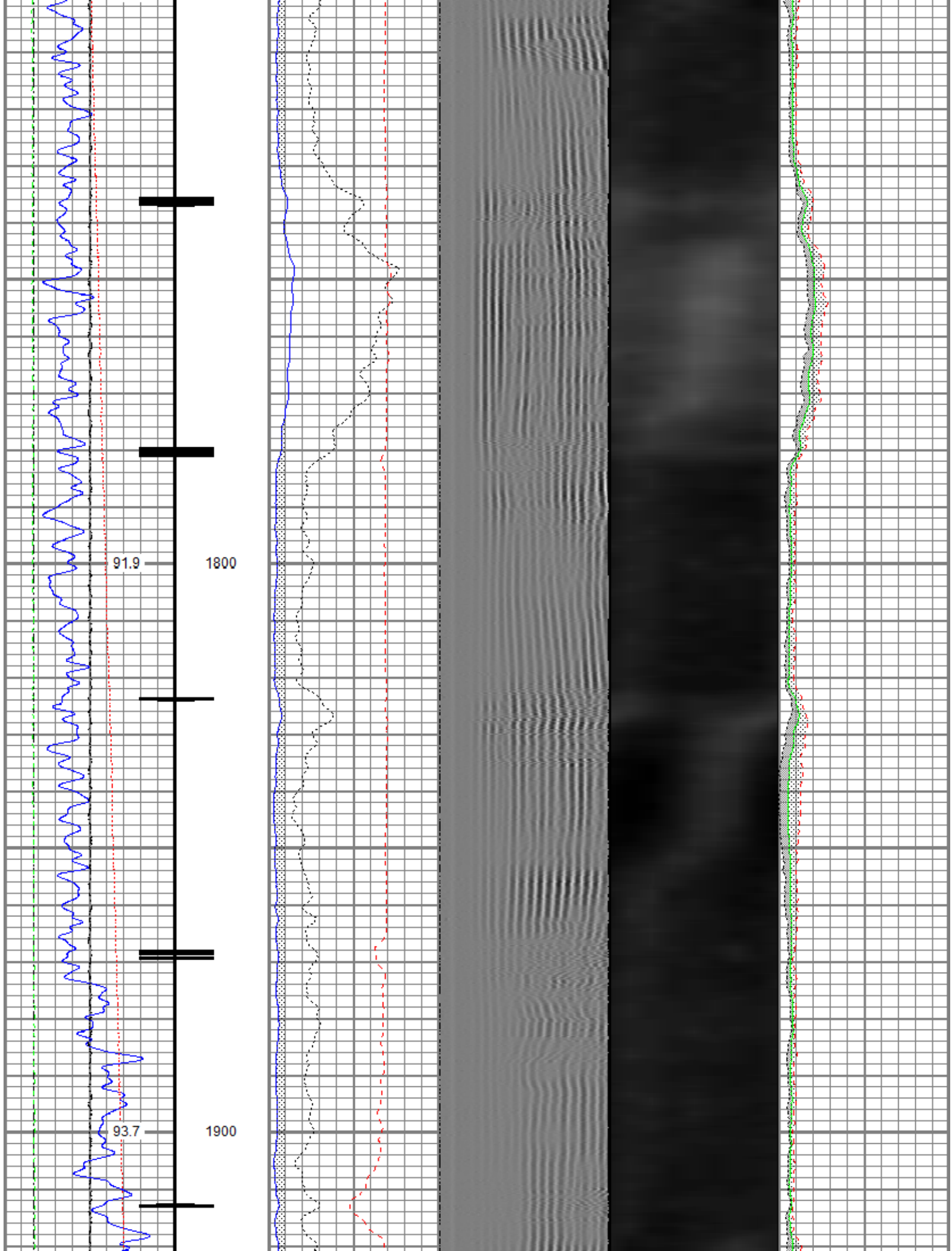




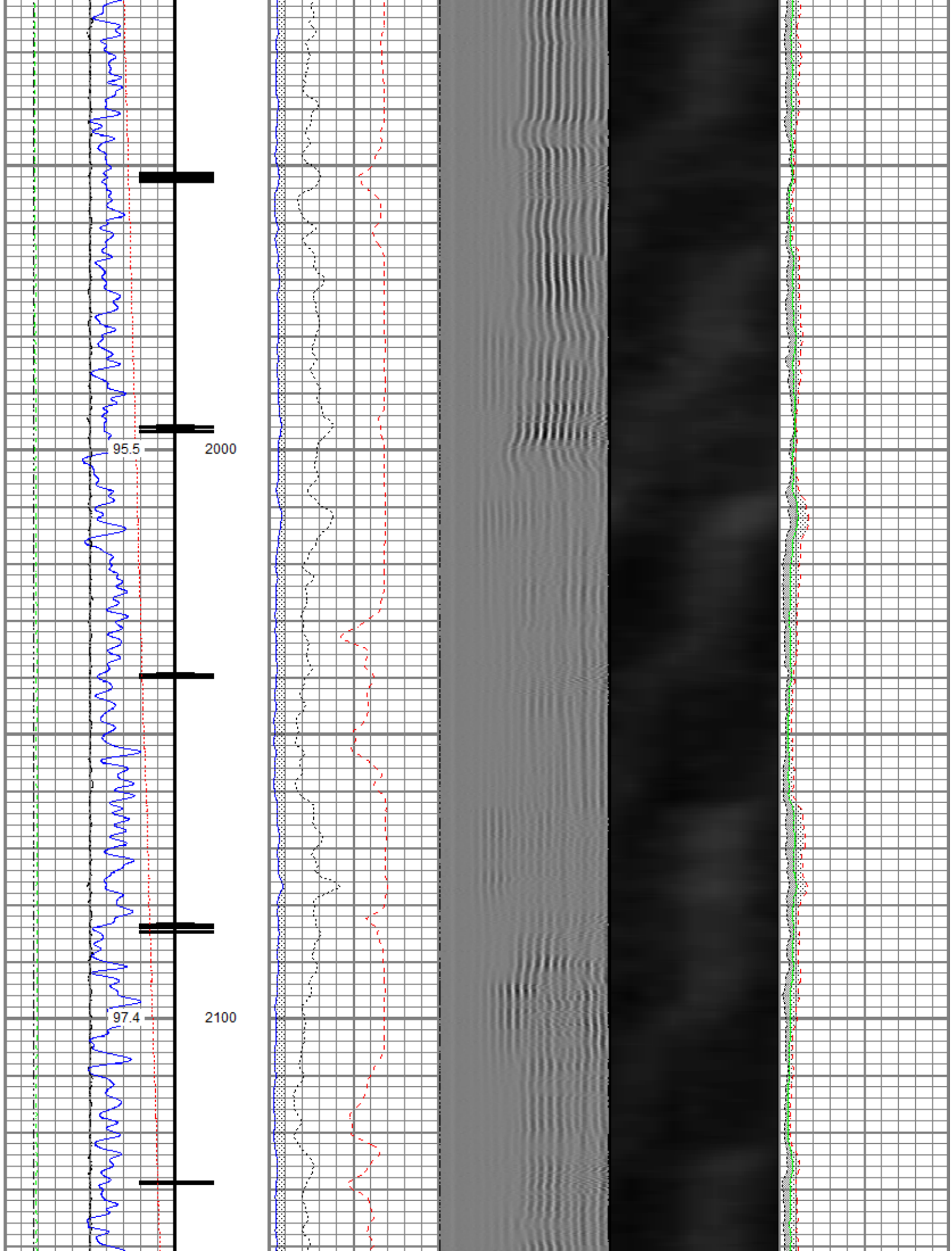


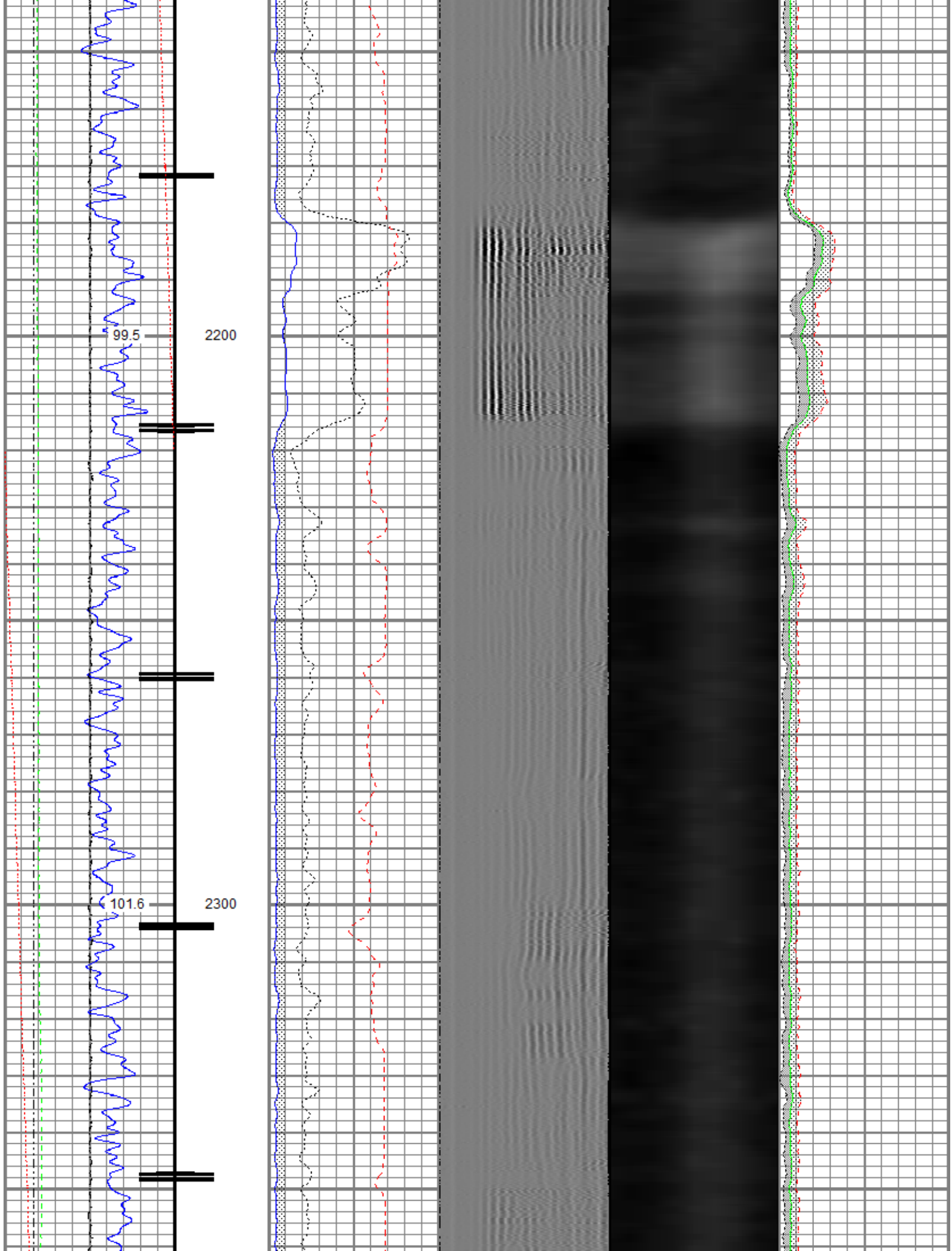


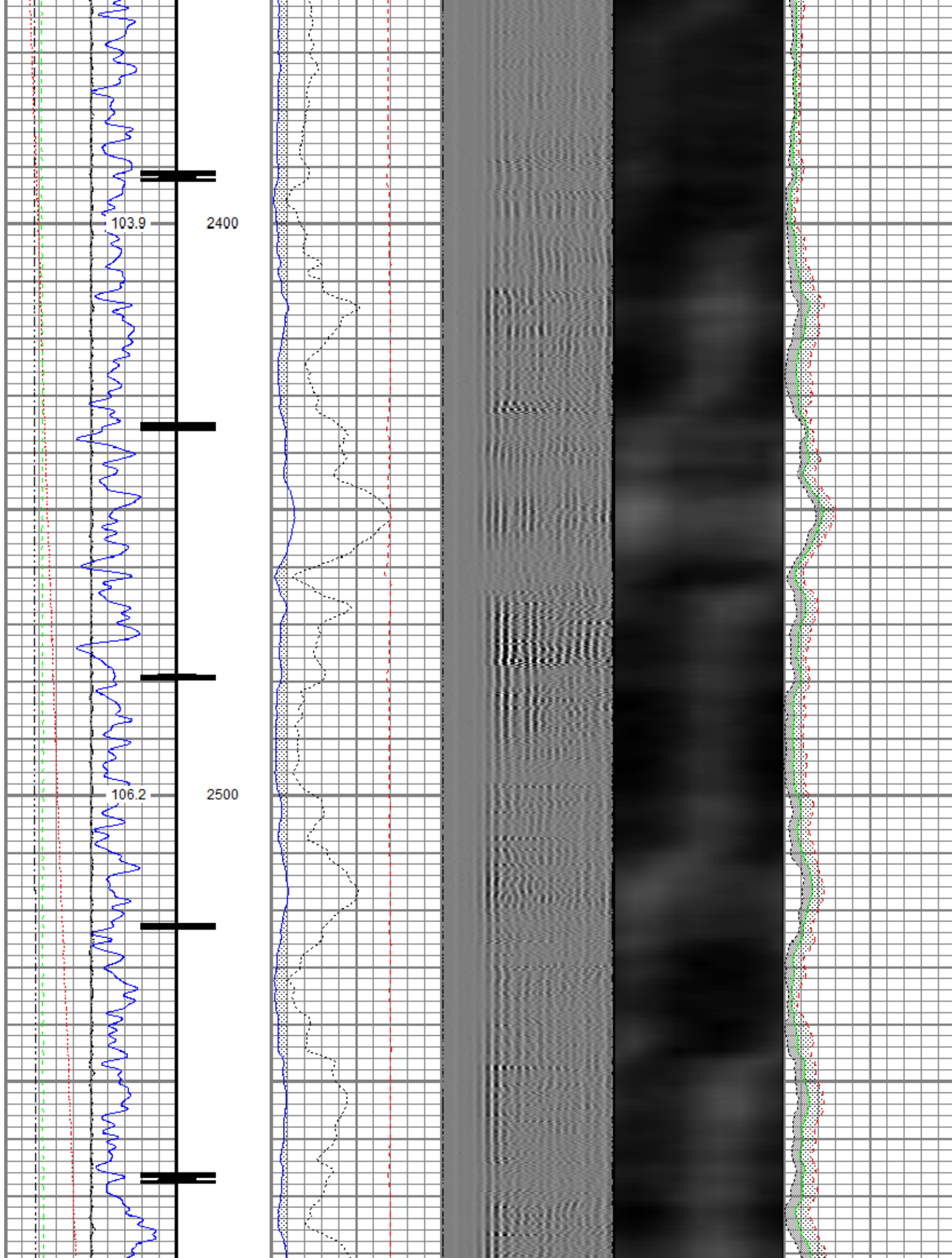




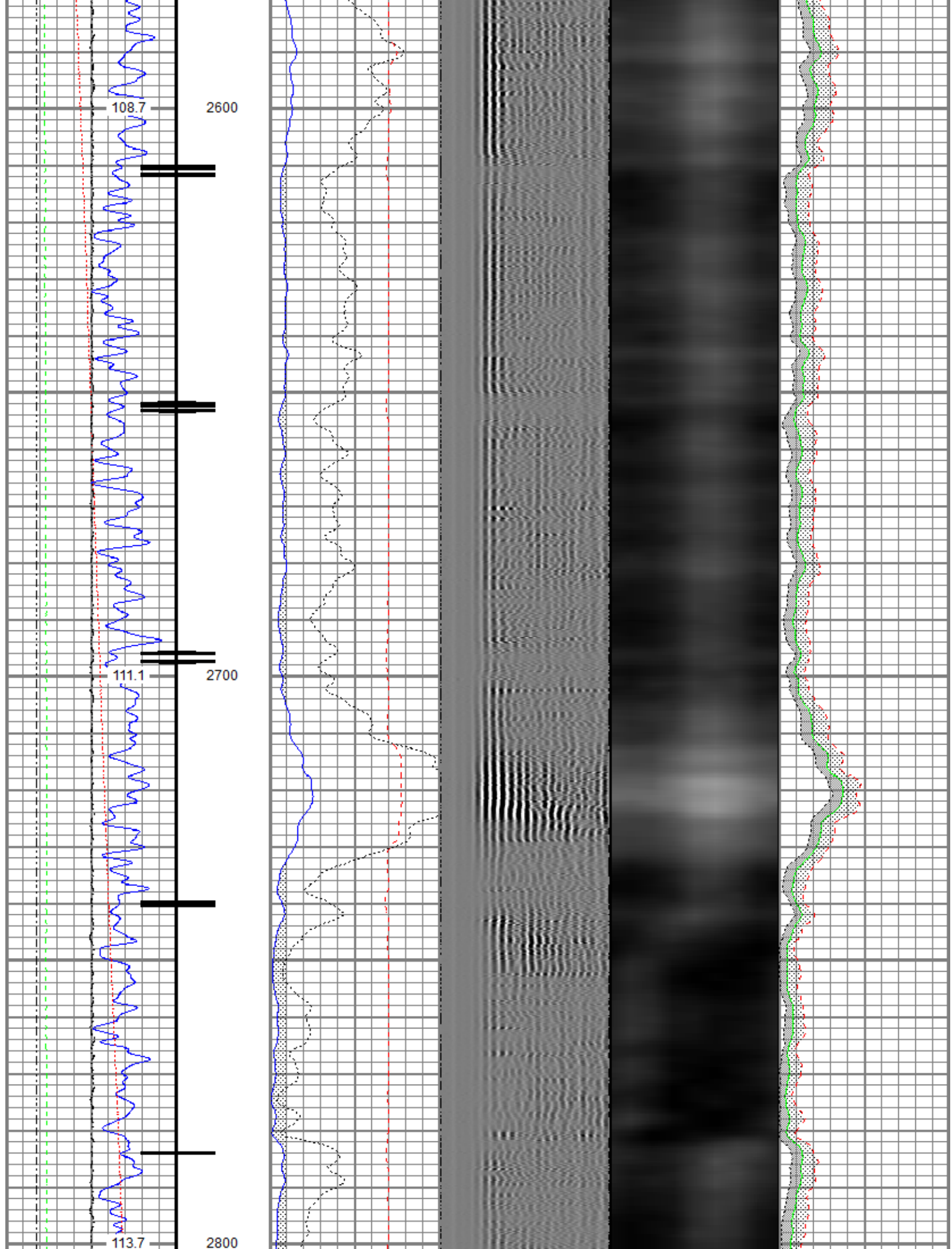


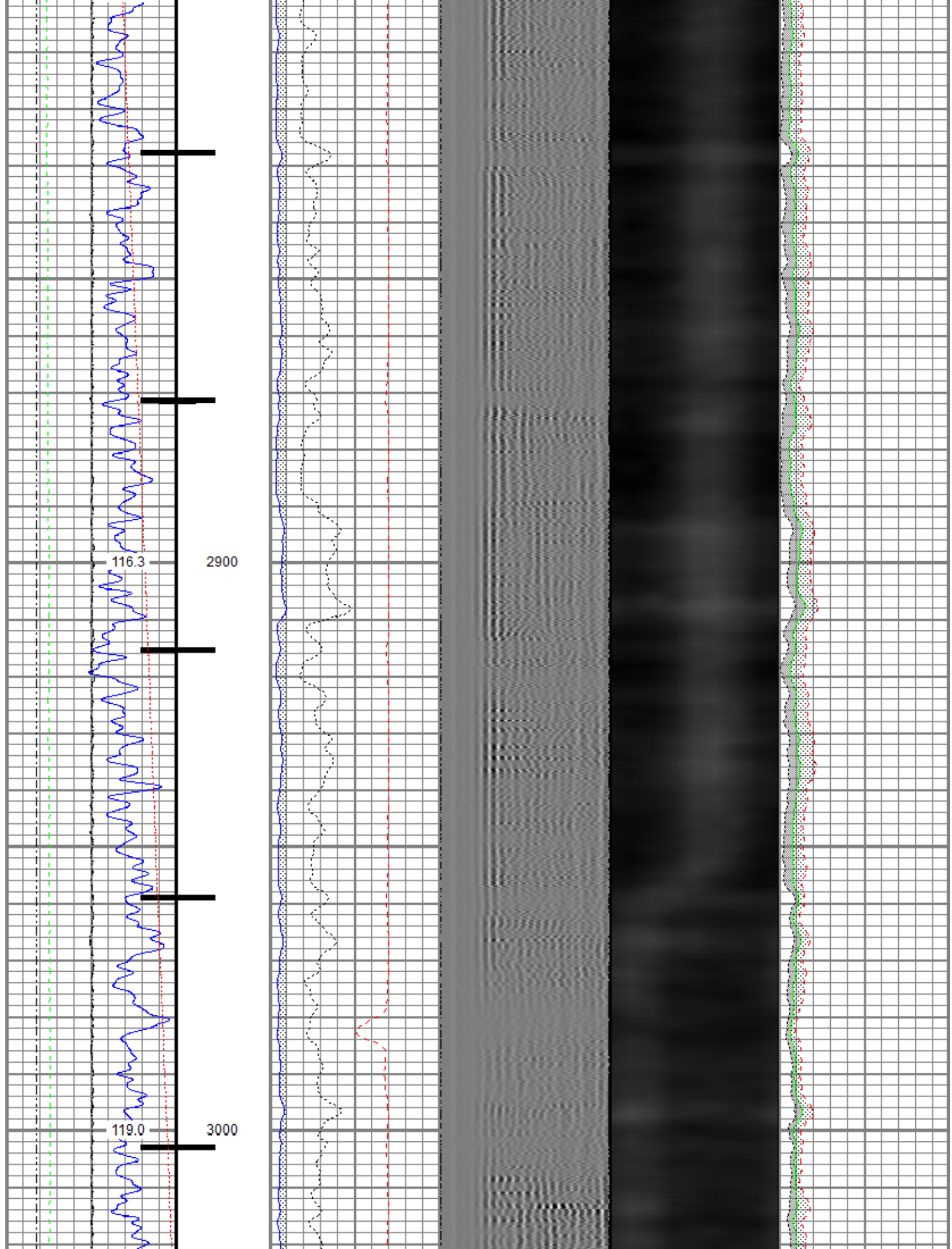


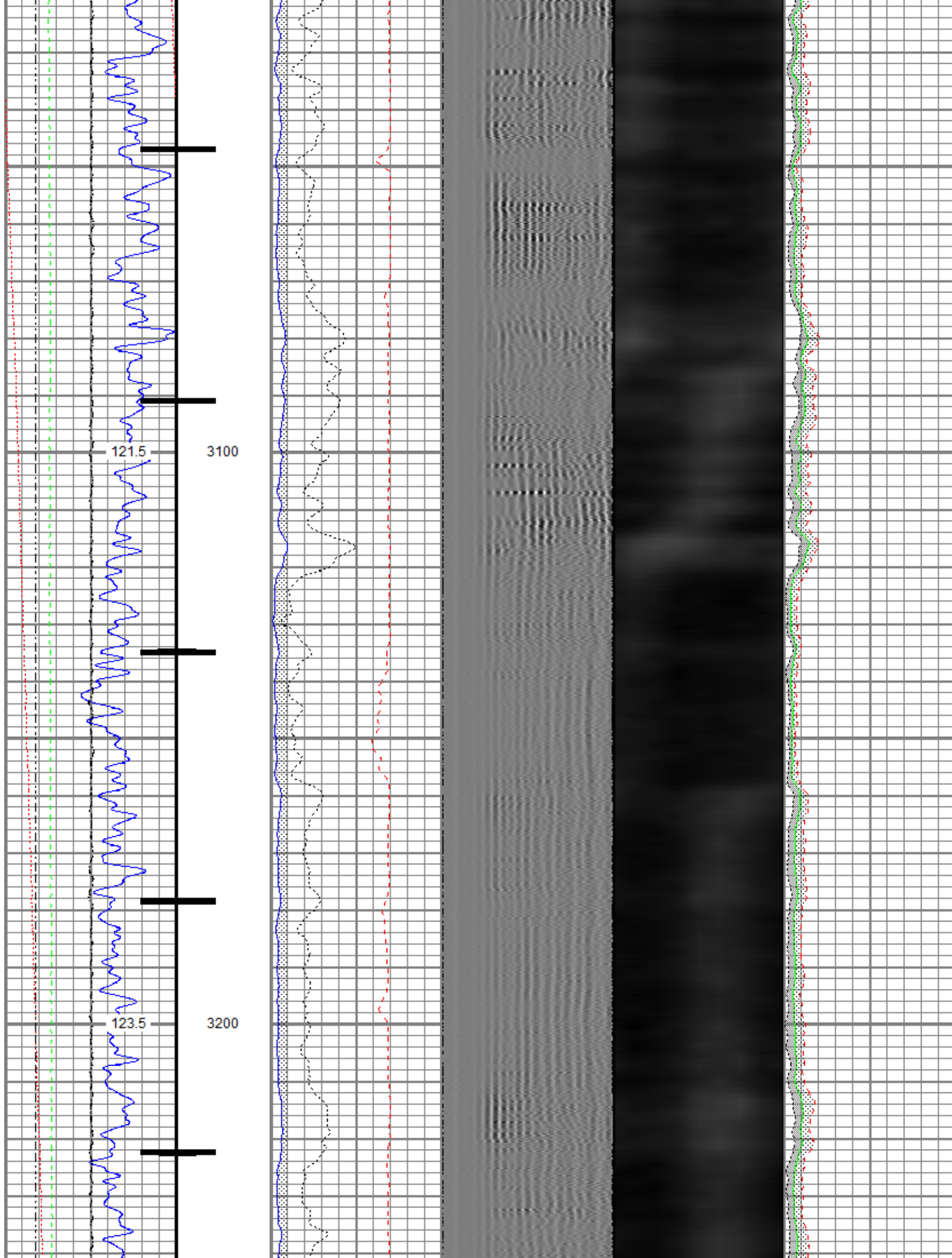




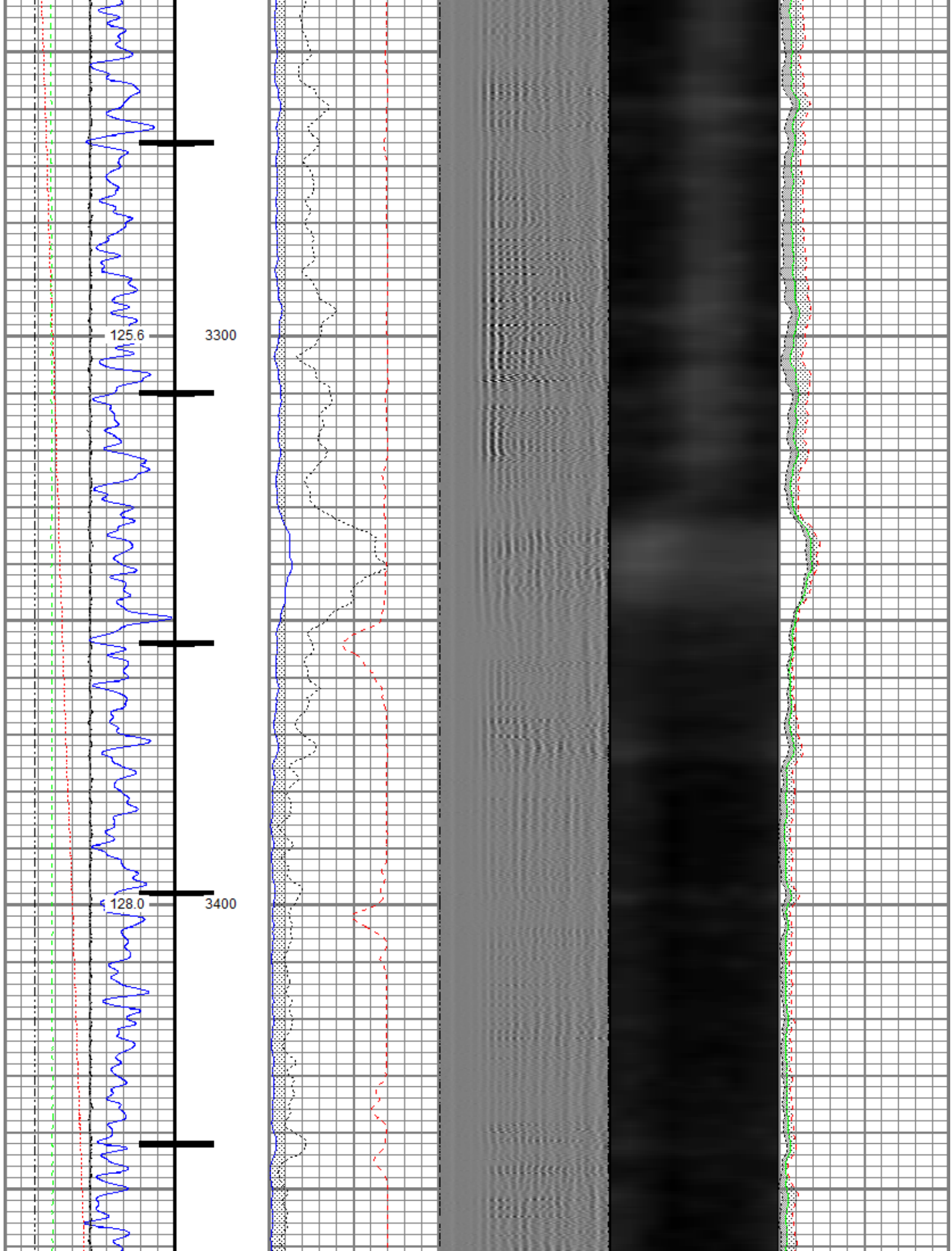


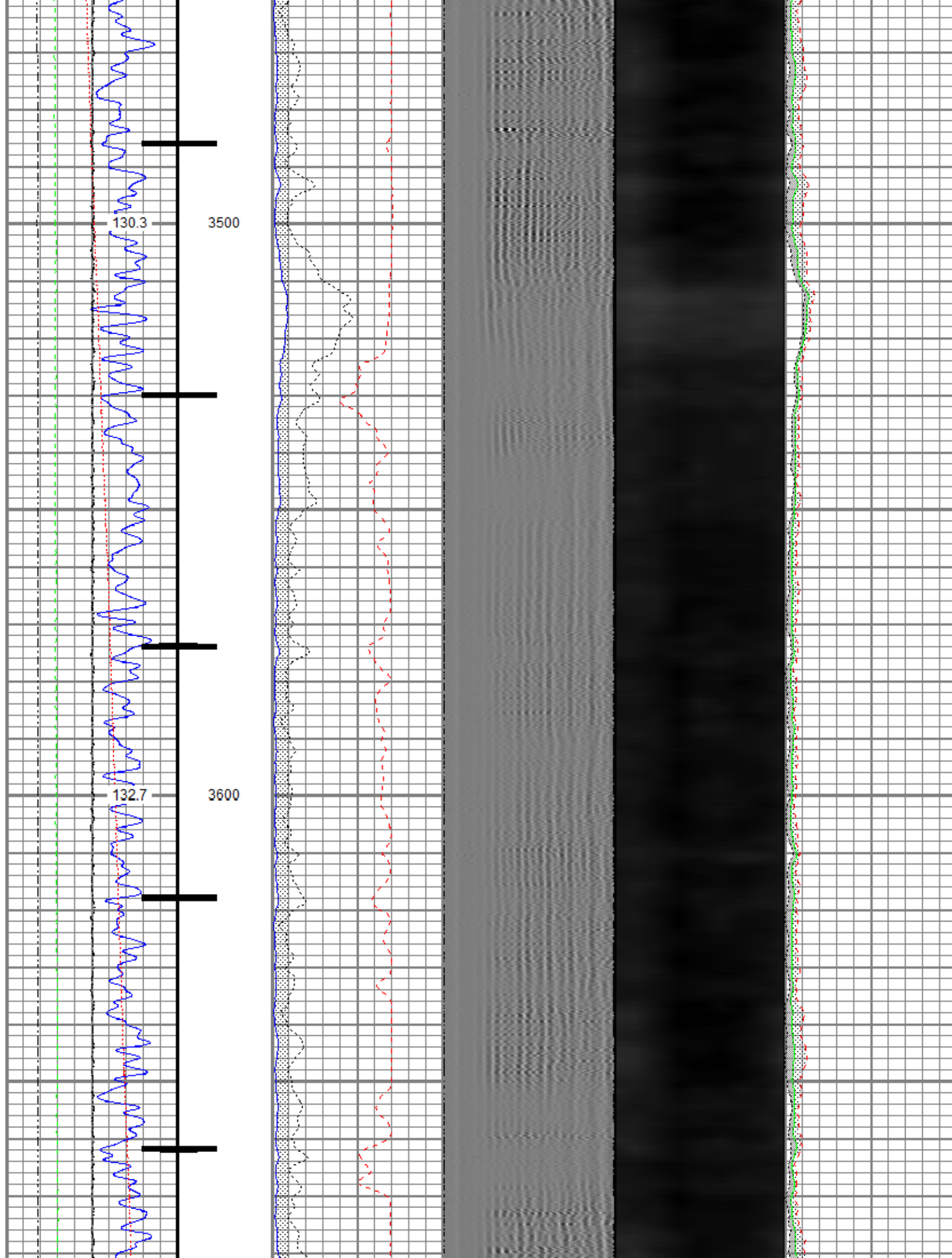


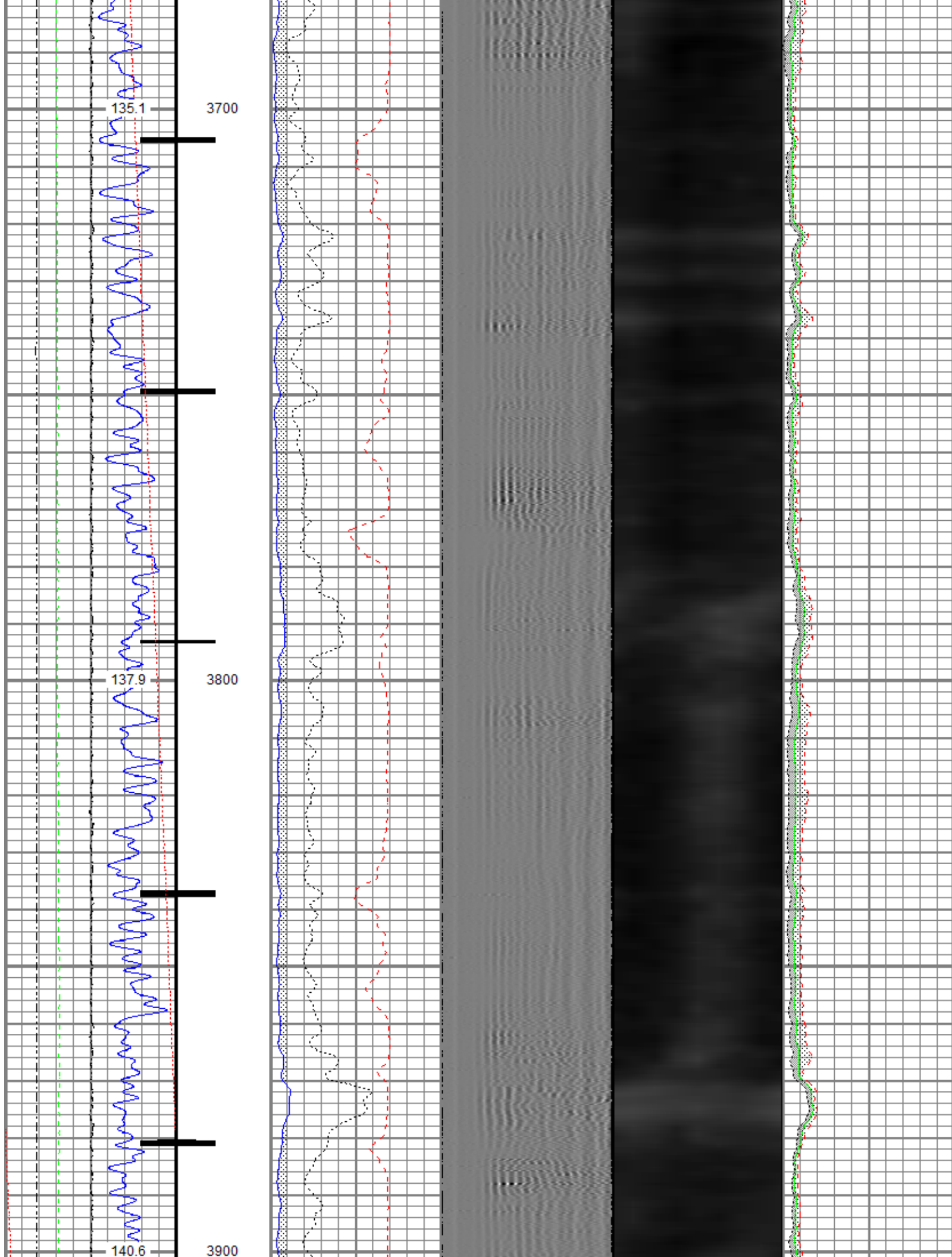




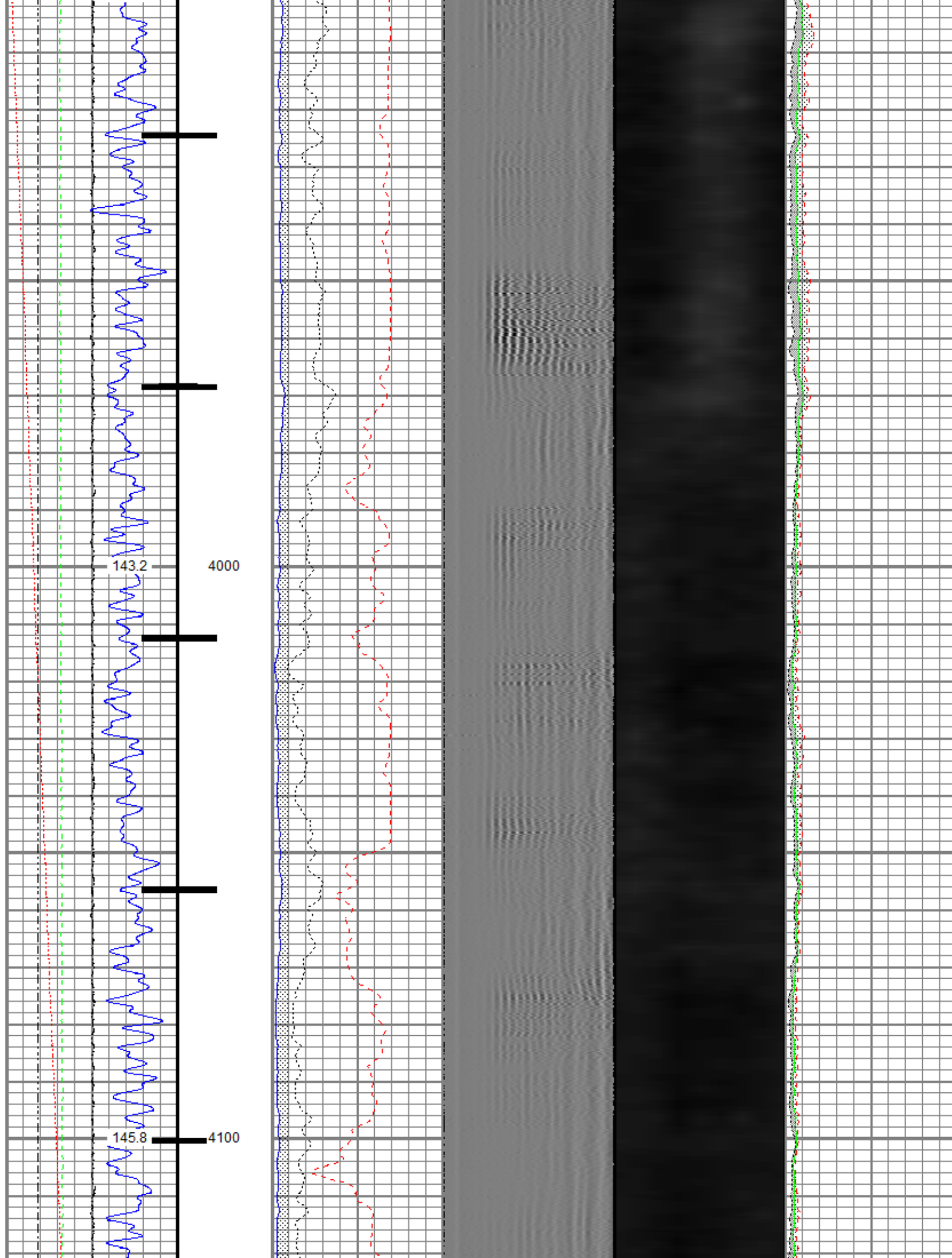


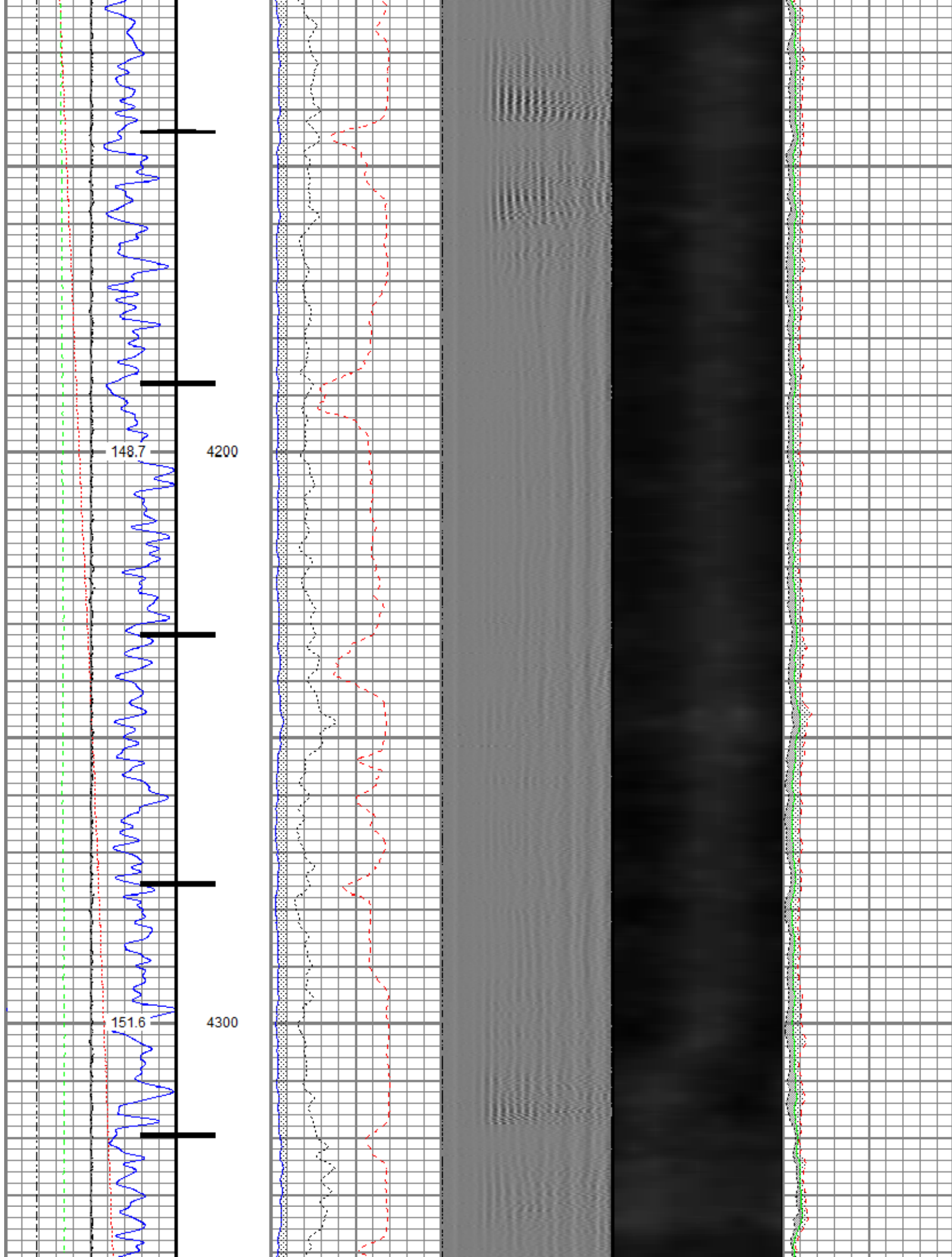


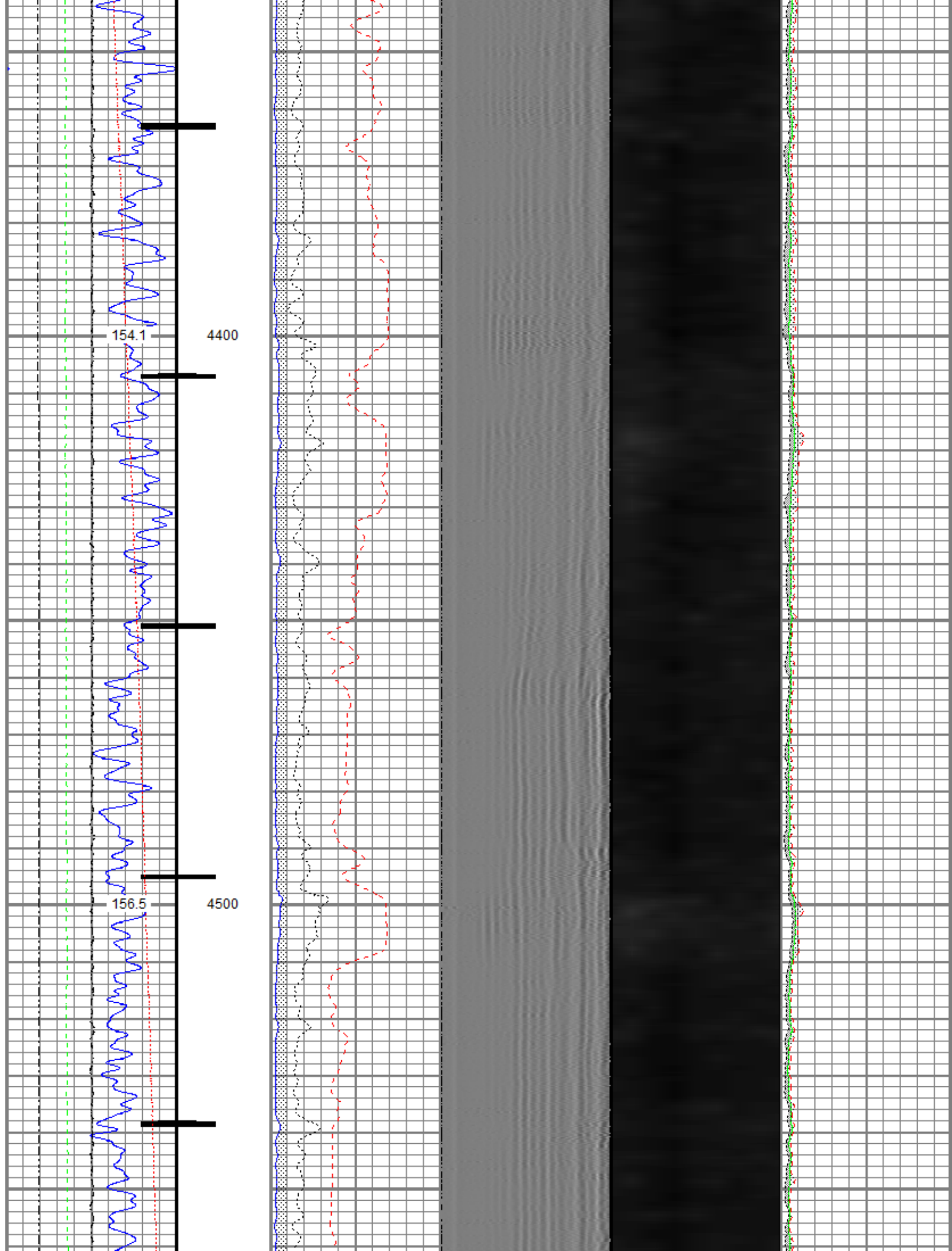




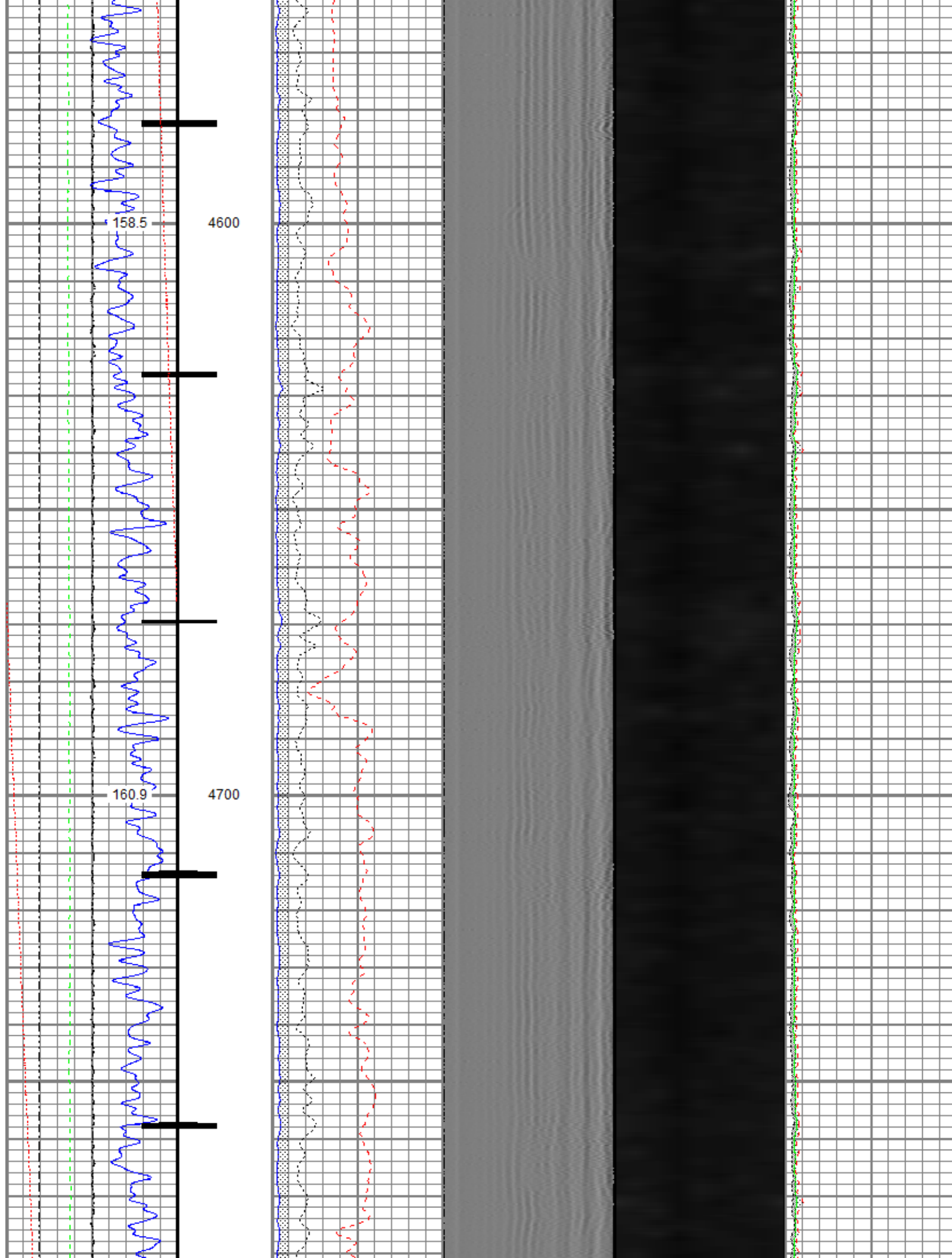


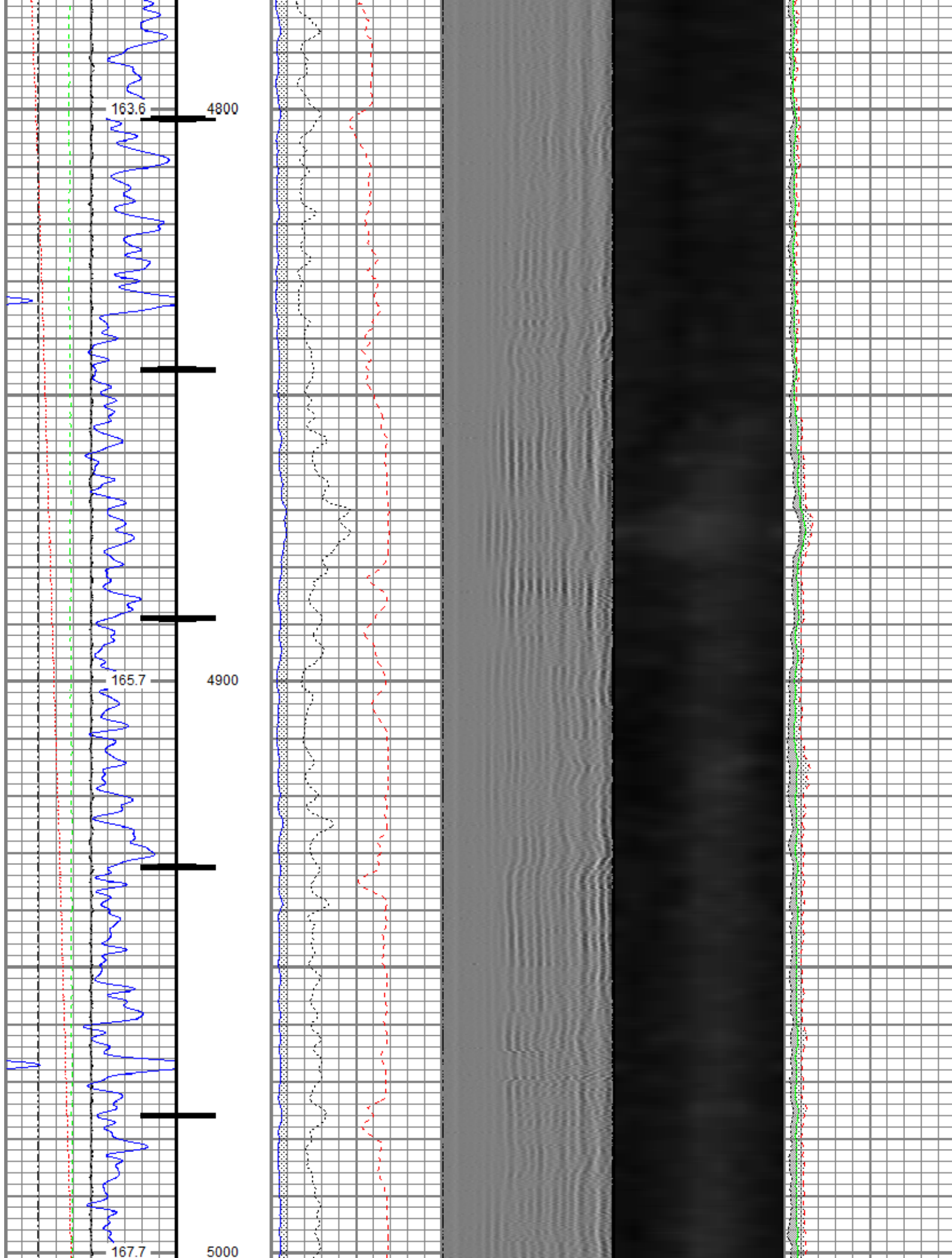


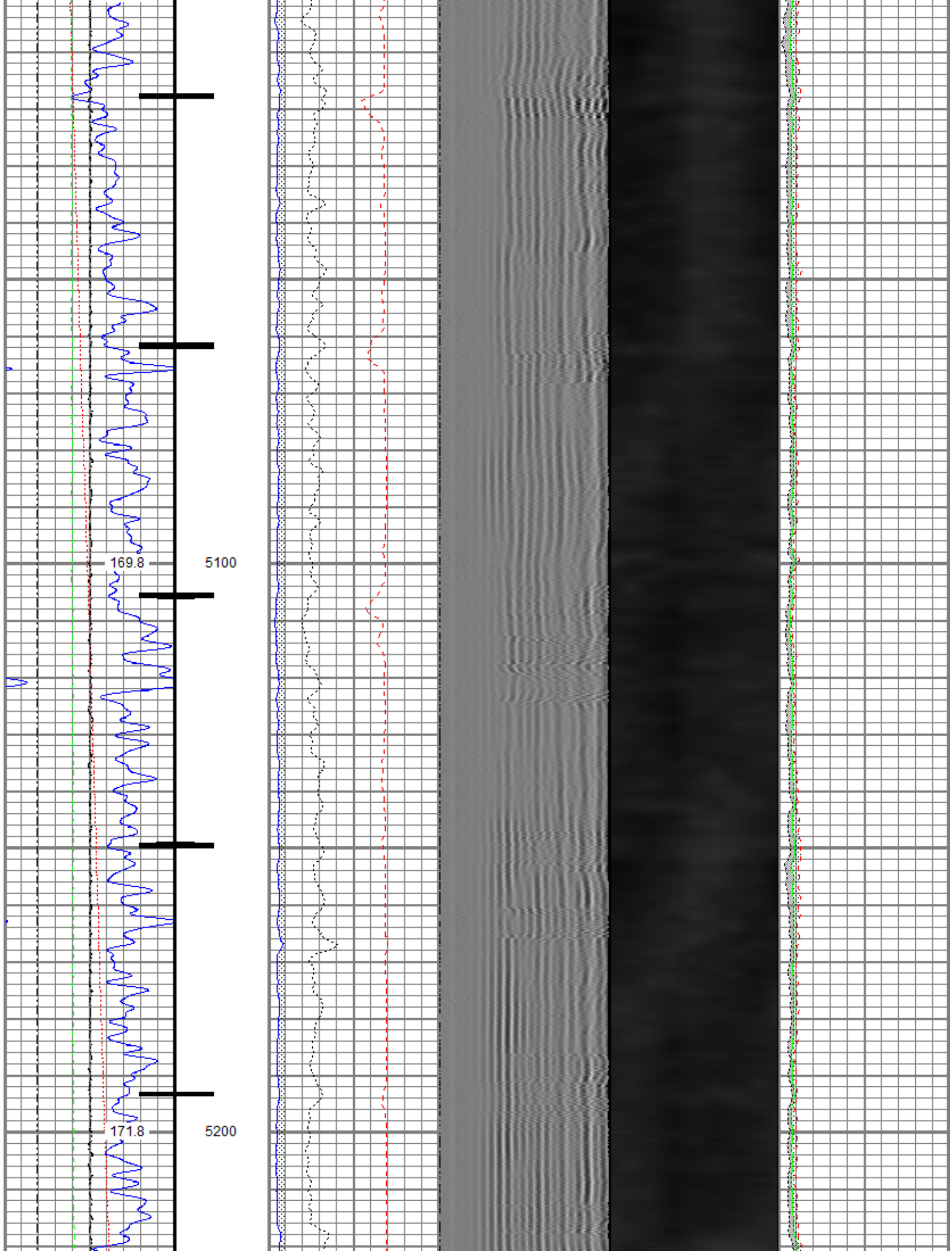




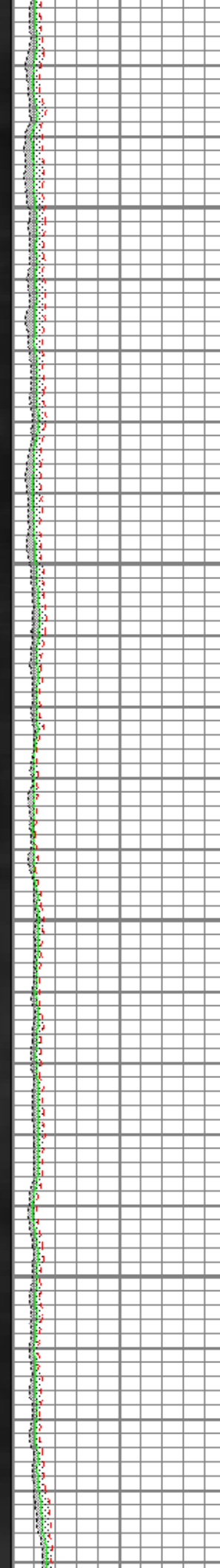
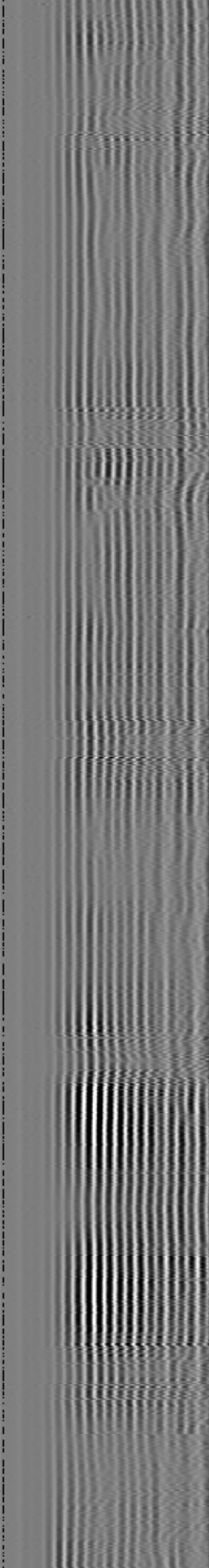
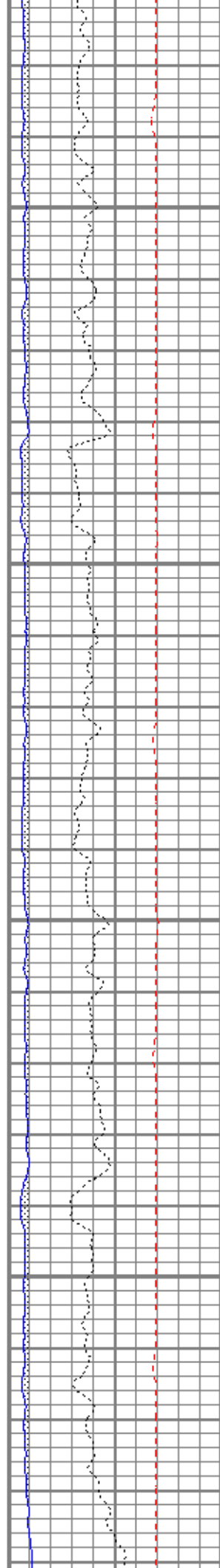
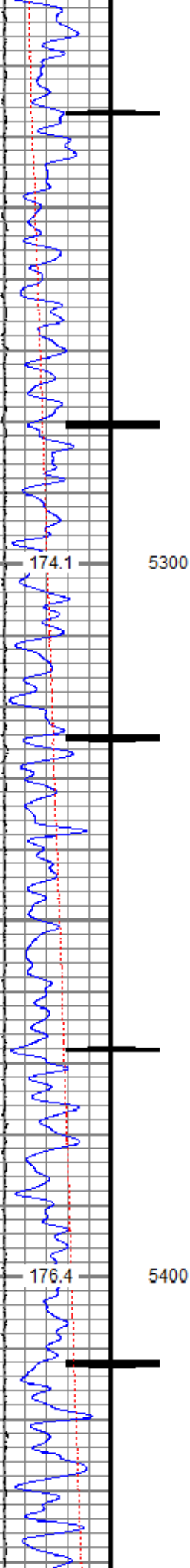


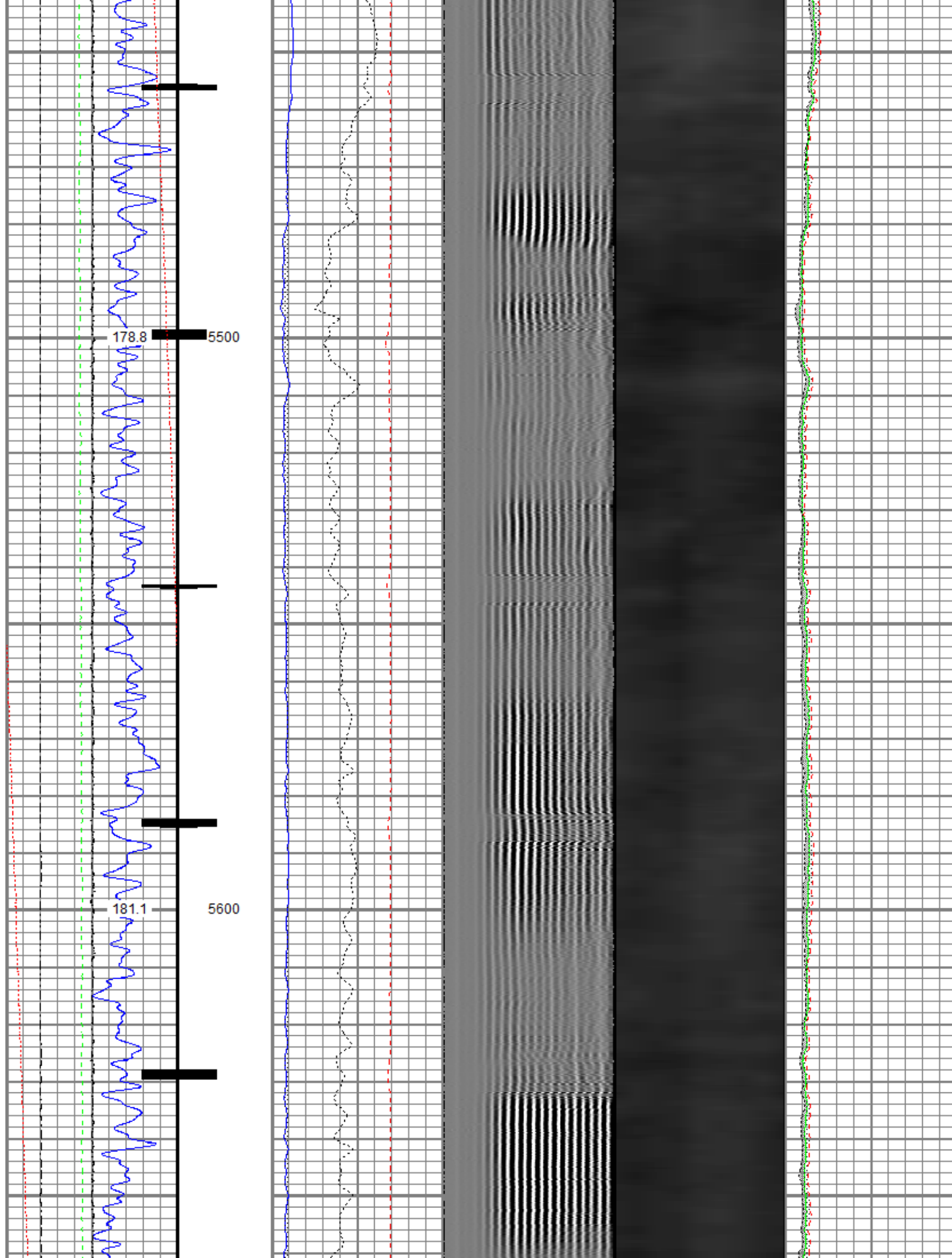


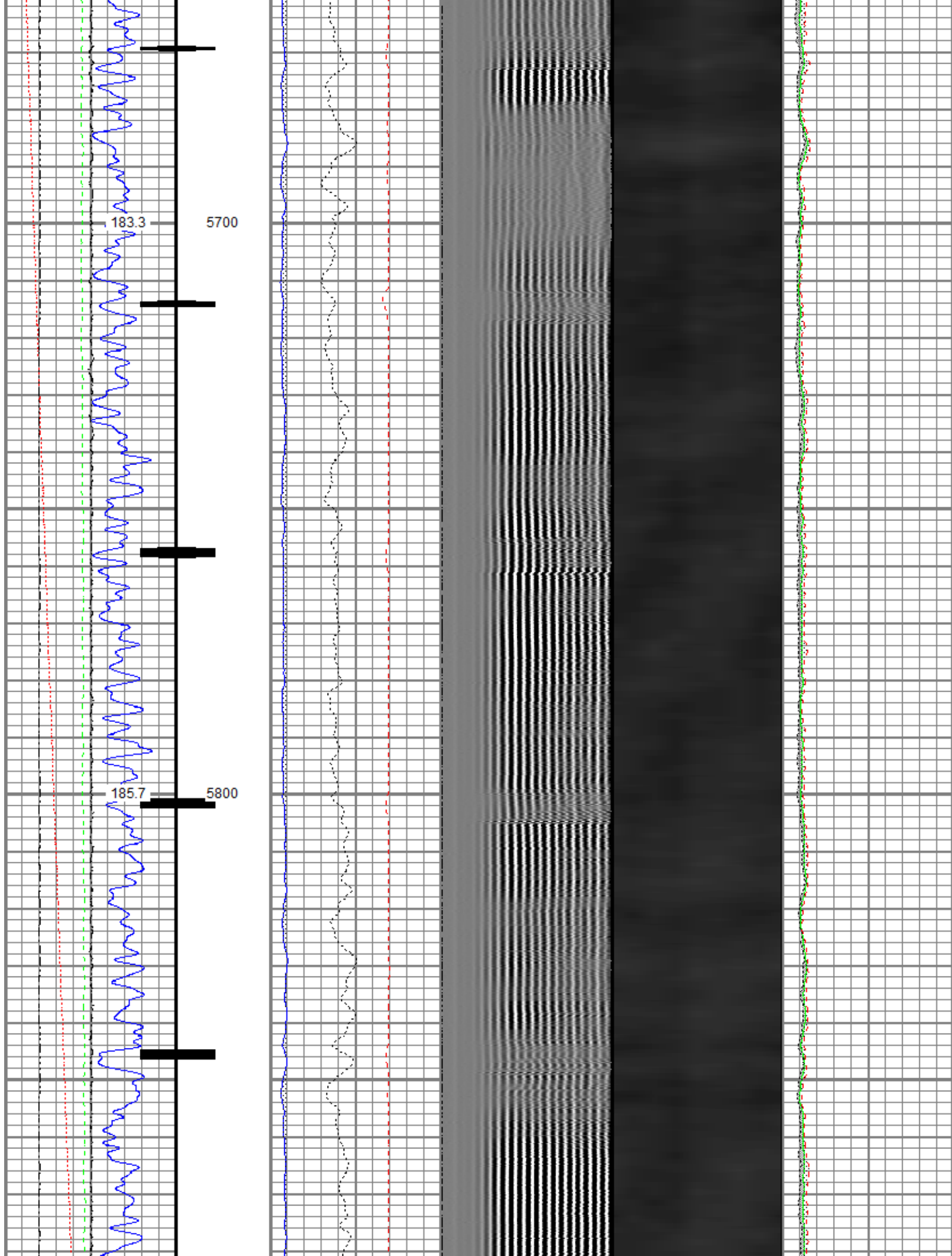




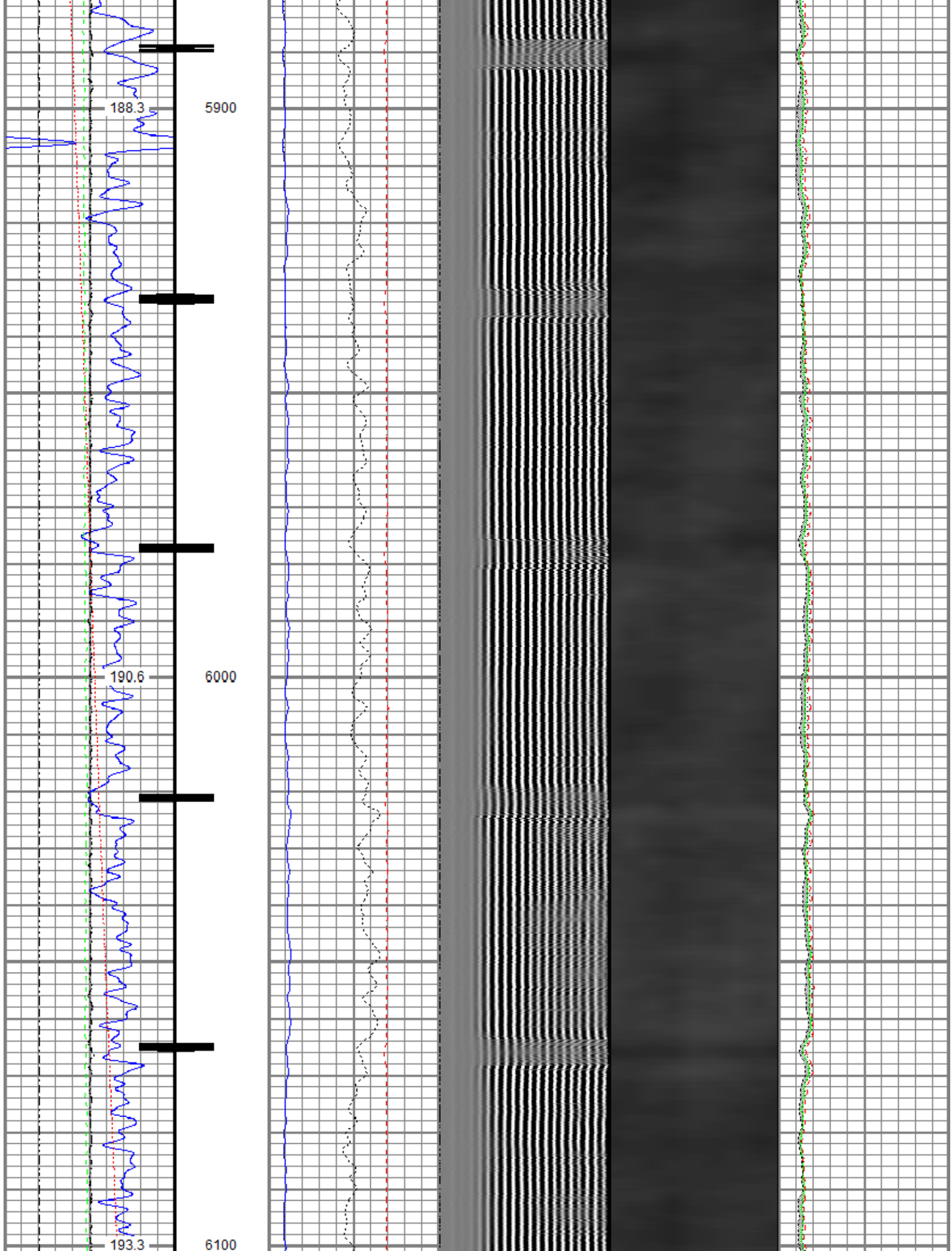


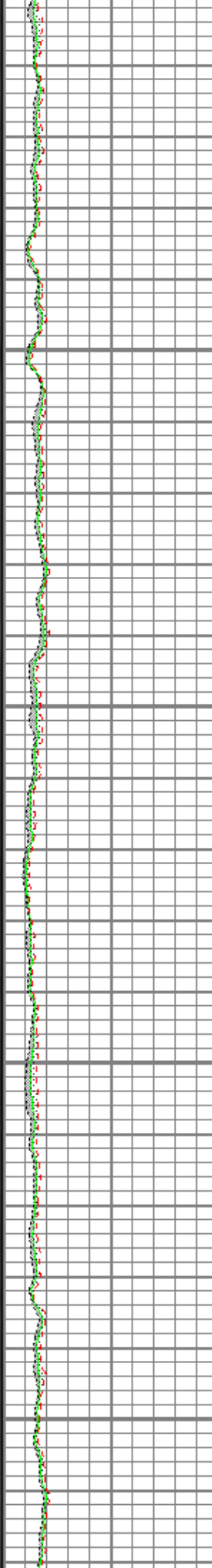
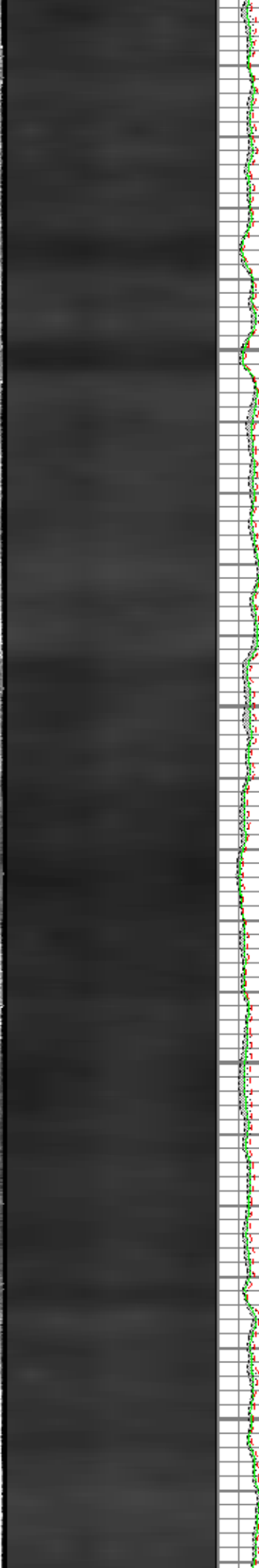
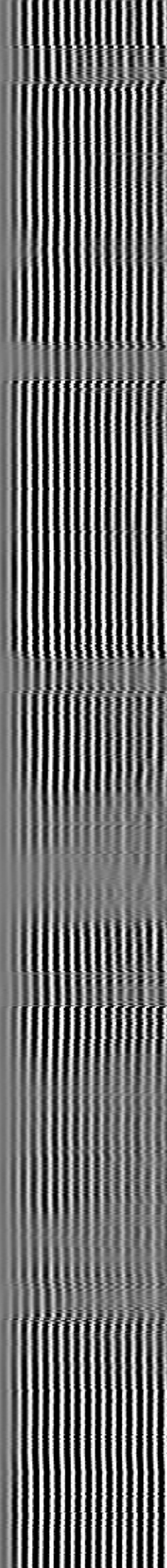
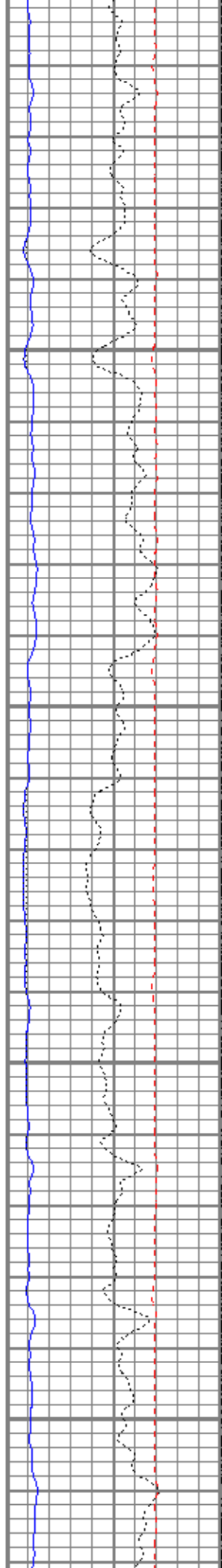
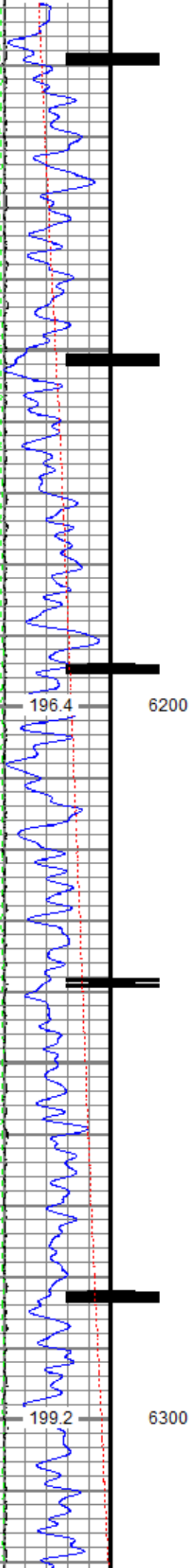


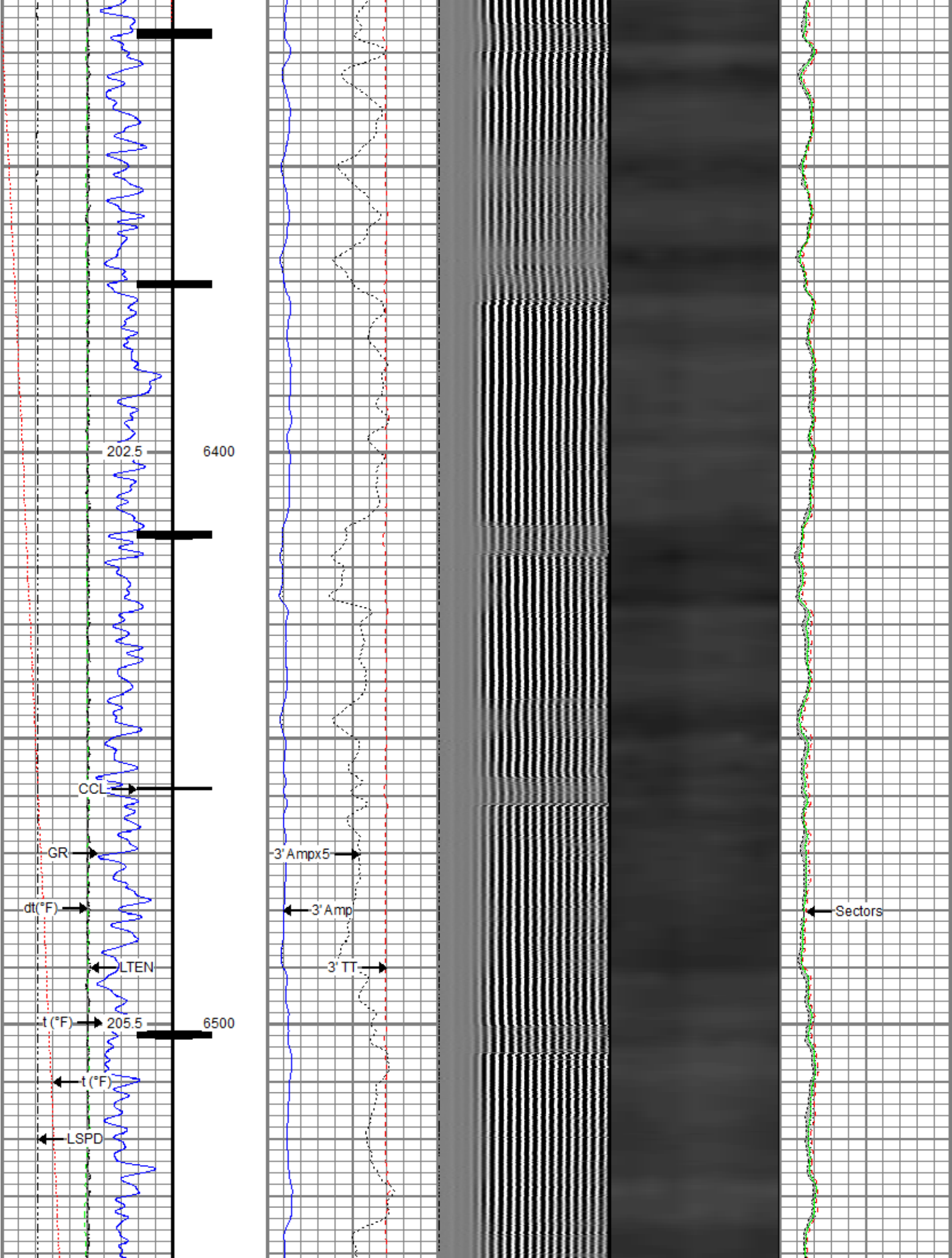




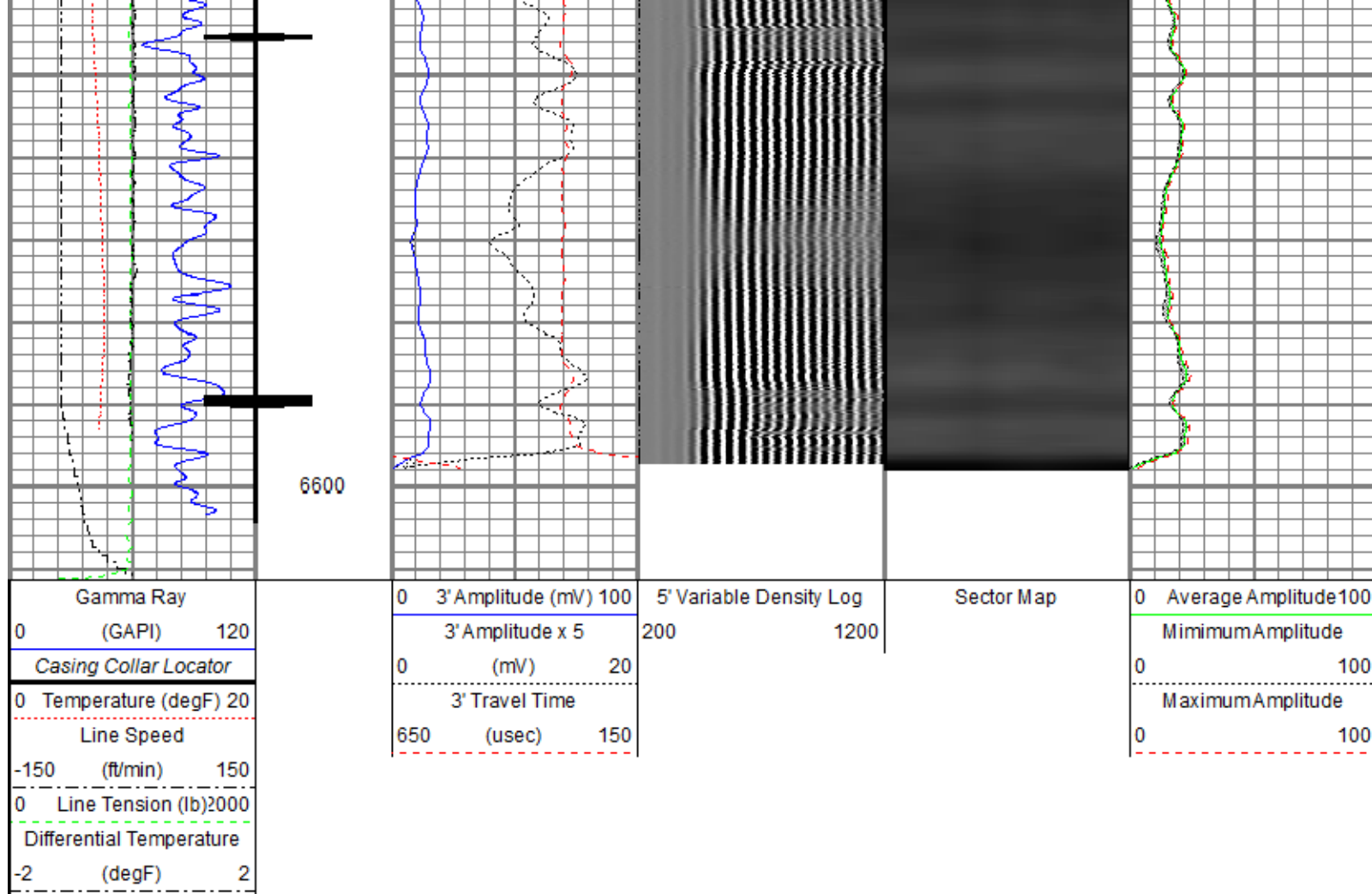








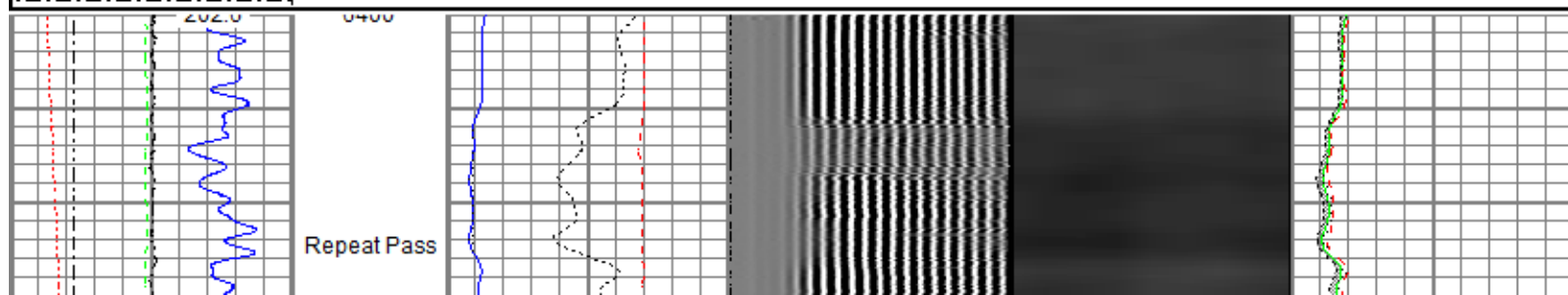
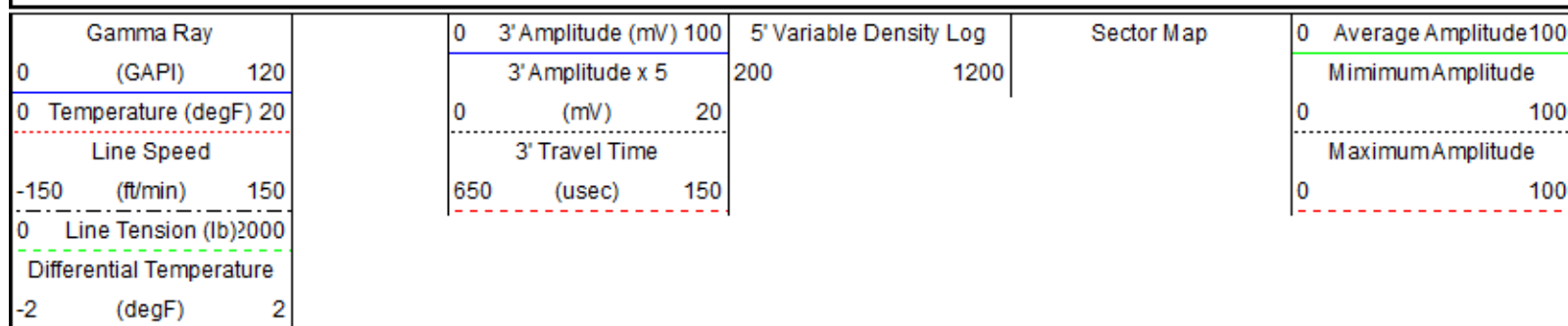


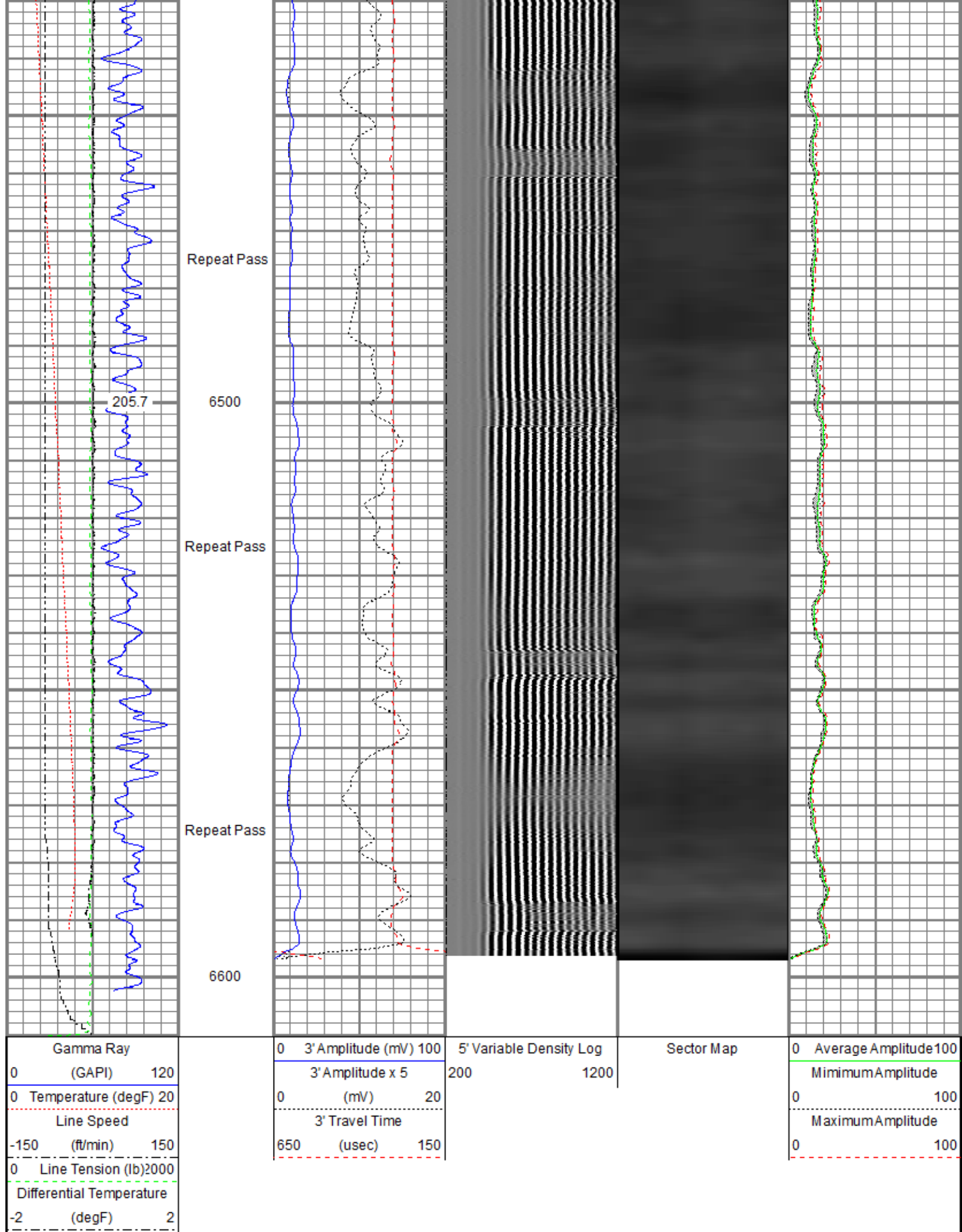


## Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File 0512345230\_anadarko\_borough 1n-17hz\_rbl\_01-18-18\0512345230\_anadarko\_borough 1n-17hz\_rbl\_01-18-18.db  
 Dataset Pathname pass2.1  
 Presentation Format ros\_radrii  
 Dataset Creation Fri Jan 19 10:02:55 2018  
 Charted by Depth in Feet scaled 1:240









Calibration Report		
Database File	C:\ProgramData\Warrior\Data\0512345230_Anadarko_Borough 1N-17HZ_RBL_01-18-18\0512345230_Anadarko_Borough 1N-	
Dataset Pathname	pass1	
Dataset Creation	Thu Jan 18 08:28:39 2018	
Gamma Ray Calibration Report		
Serial Number:	FW1212-026	
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:	-33.544	ft

Master Calibration, performed Thu Jan 18 07:24:11 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.028	0.648	0.800	71.921	114.769	-2.435
CAL	0.692	0.695				
5'	0.011	0.592	0.800	71.921	122.325	-0.548
SUM						
S1	0.025	0.643	0.000	100.000	161.827	-4.085
S2	0.028	0.644	0.000	100.000	162.346	-4.556
S3	0.026	0.643	0.000	100.000	162.266	-4.288
S4	0.027	0.640	0.000	100.000	162.934	-4.346
S5	0.025	0.643	0.000	100.000	161.856	-4.064
S6	0.027	0.650	0.000	100.000	160.458	-4.337
S7	0.030	0.652	0.000	100.000	160.681	-4.753
S8	0.029	0.653	0.000	100.000	160.297	-4.704

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.692	0.695	1.000	0.000

Air Zero Calibration, performed Thu Jan 18 07:23:09 2018:			
	Raw (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
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 1N-17HZ  
**Field** Wattenberg  
**County** Weld  
**State** Colorado