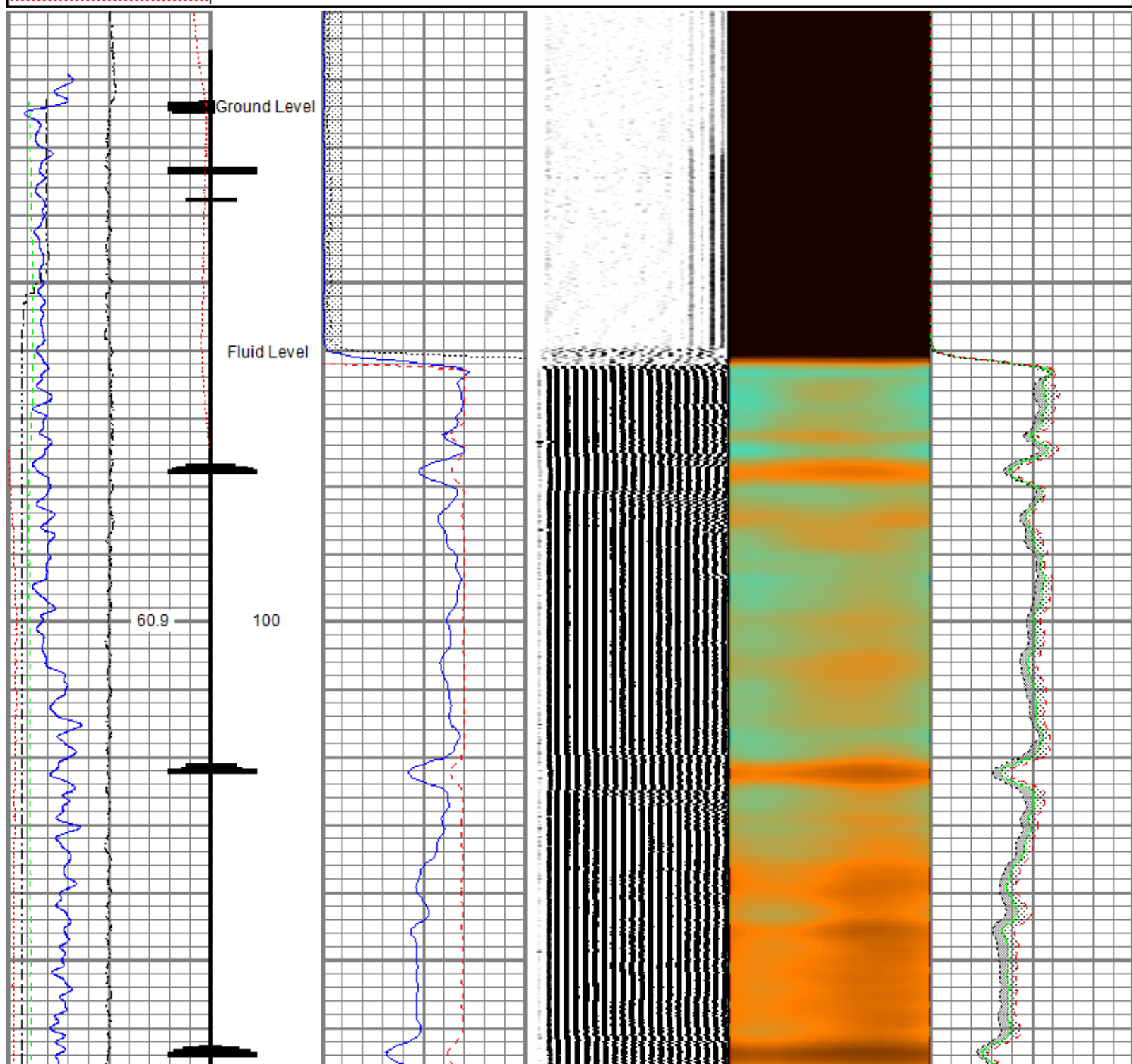
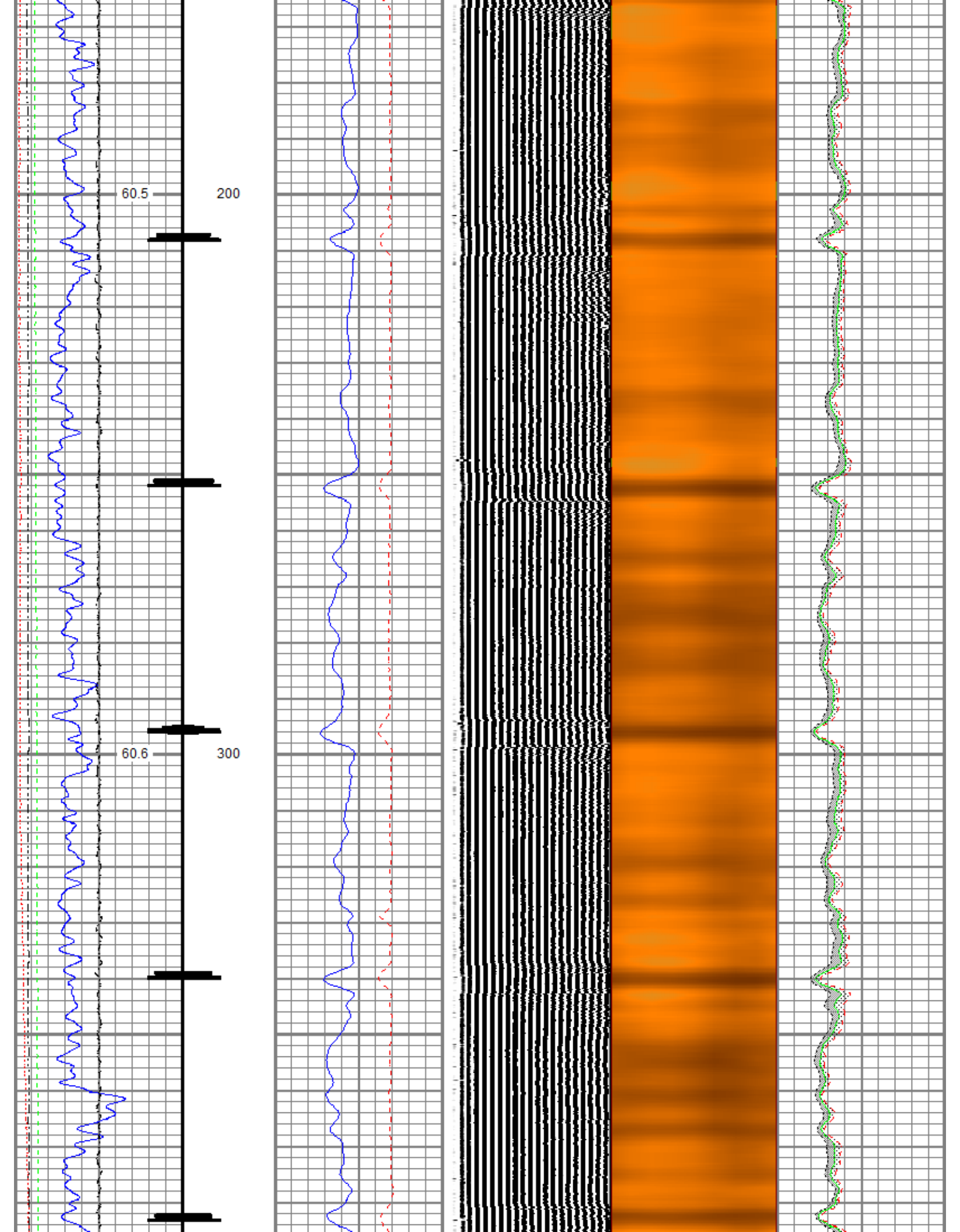


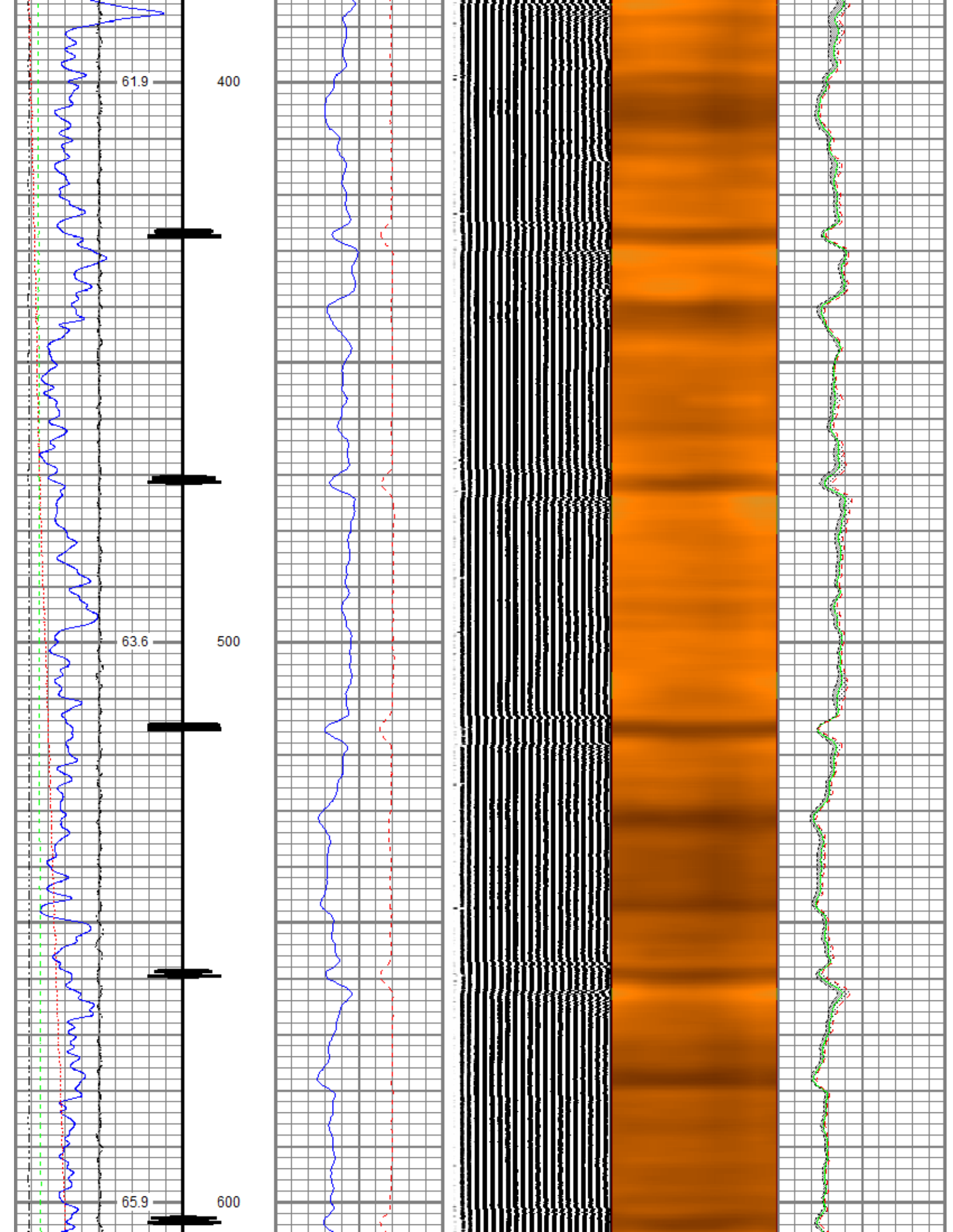
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
Log ran as per customer request Depth referenced to Kelly Bushing at 24 FT Marker Joint Logged from 3853-3875 FT Log ran from 6866 FT to Surface Recorded with 0 PSI Surface Induced Pressure Thank you for choosing Reliance Oilfield Services, LLC!

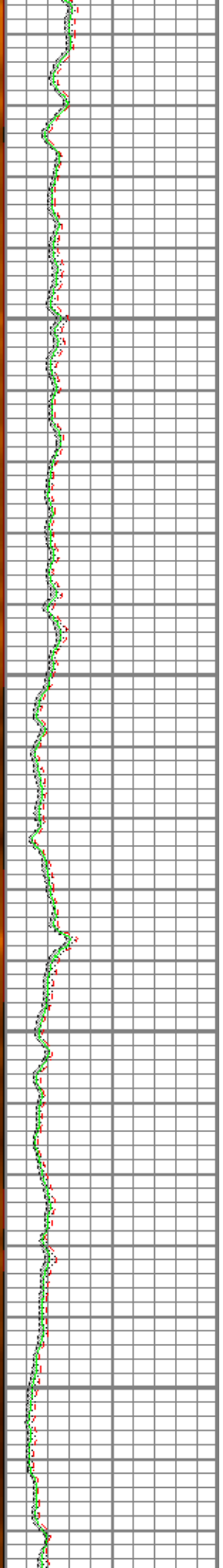
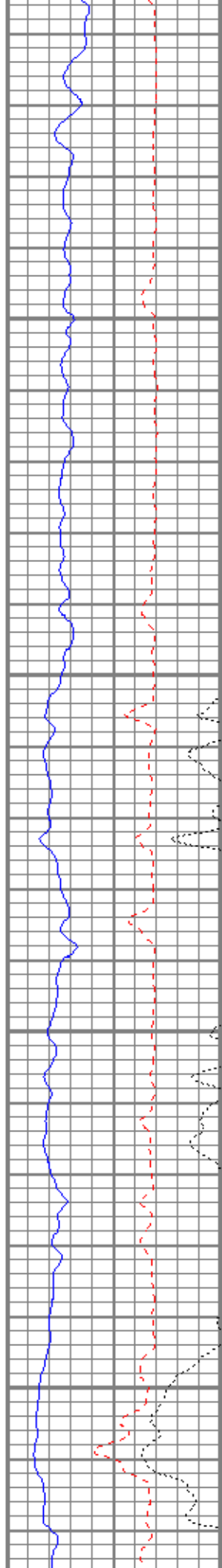
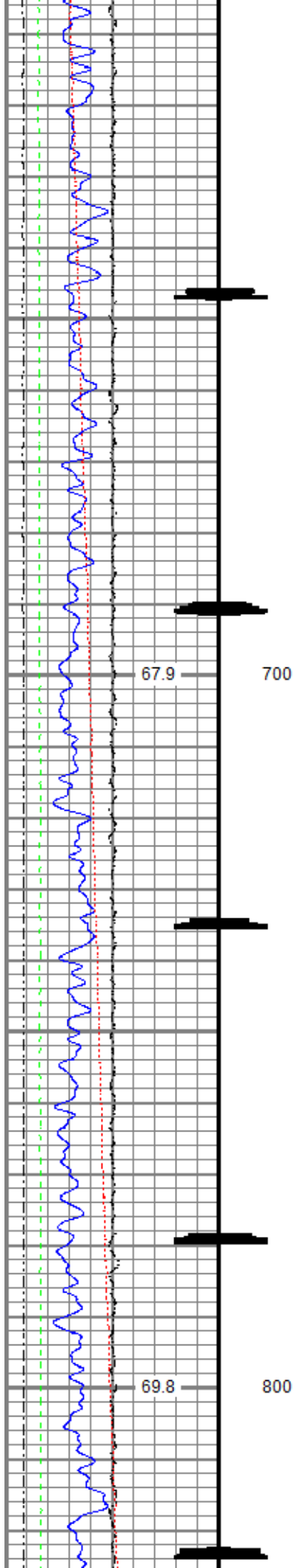
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 Dataset Pathname main.1
 Presentation Format ros_rbt004_tep
 Dataset Creation Sat Apr 06 20:35:32 2019
 Charted by Depth in Feet scaled 1:240

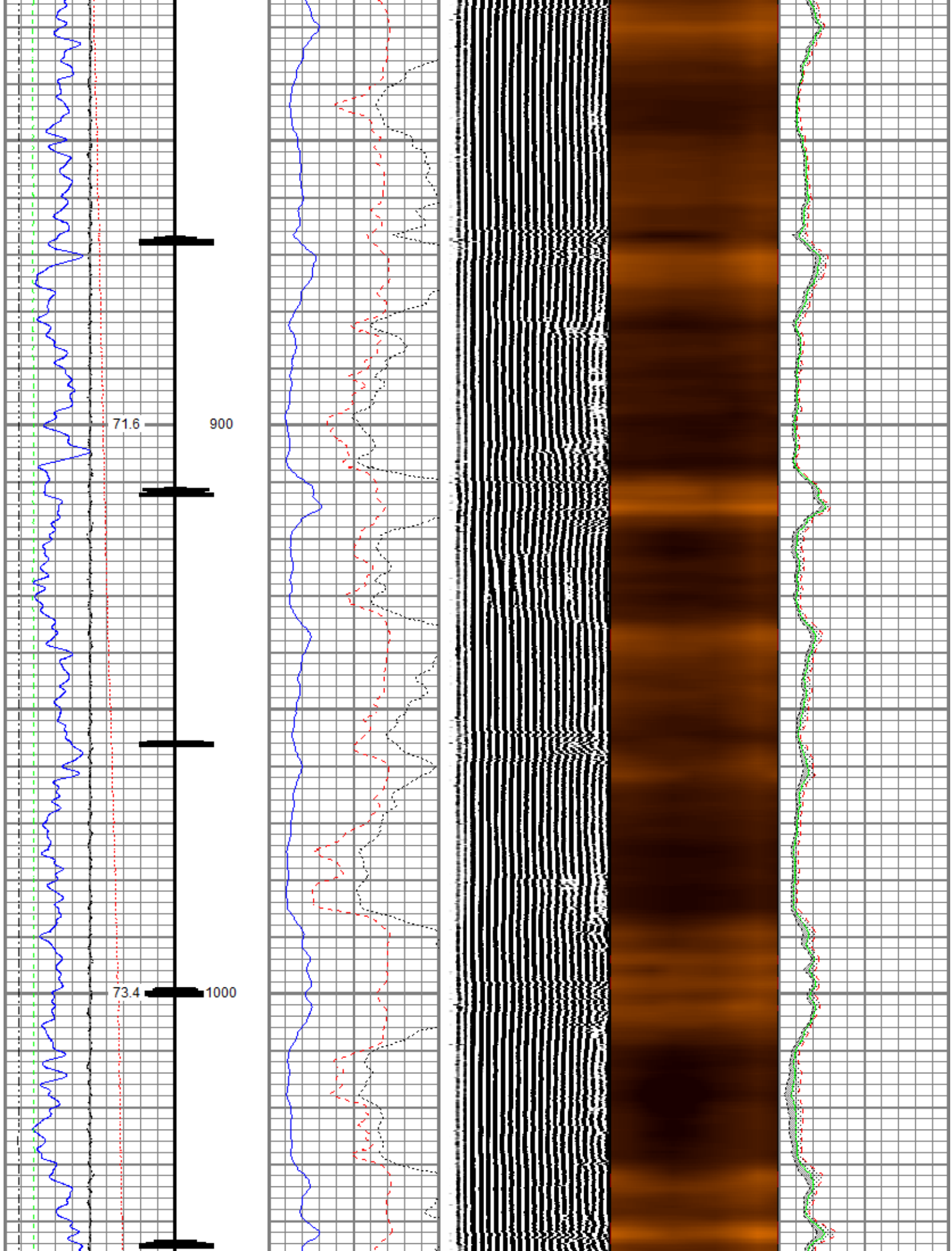
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 150
(GAPI) 200		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator		0 (mV) 20			0	150
Line Speed		3' Travel Time				Maximum Amplitude
-150 (ft/min) 150		300 (usec) 200			0	150
Line Tension (lb) 2000						
Differential Temperature						
-2 (degF) 2						
Temperature (degF) 20						

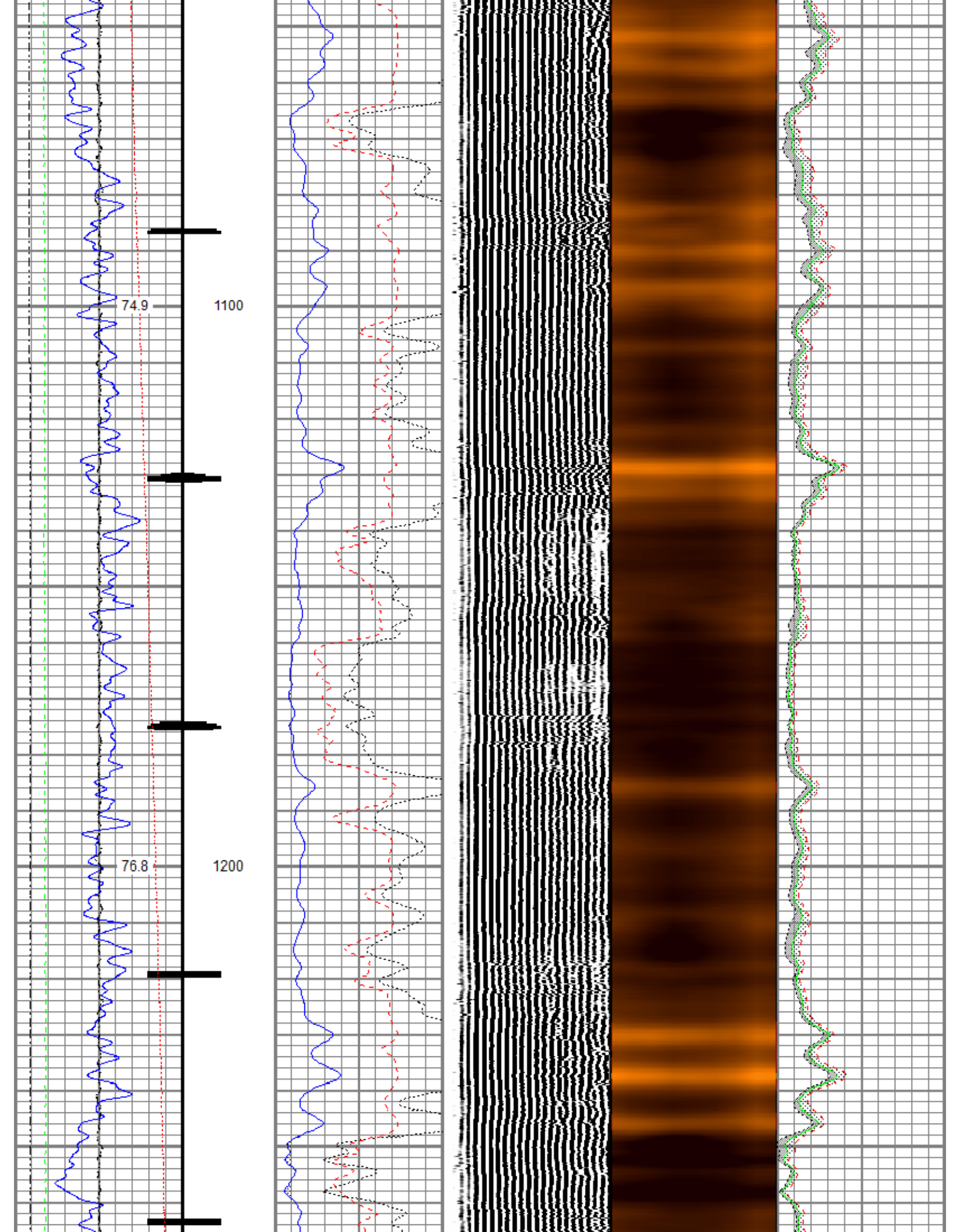


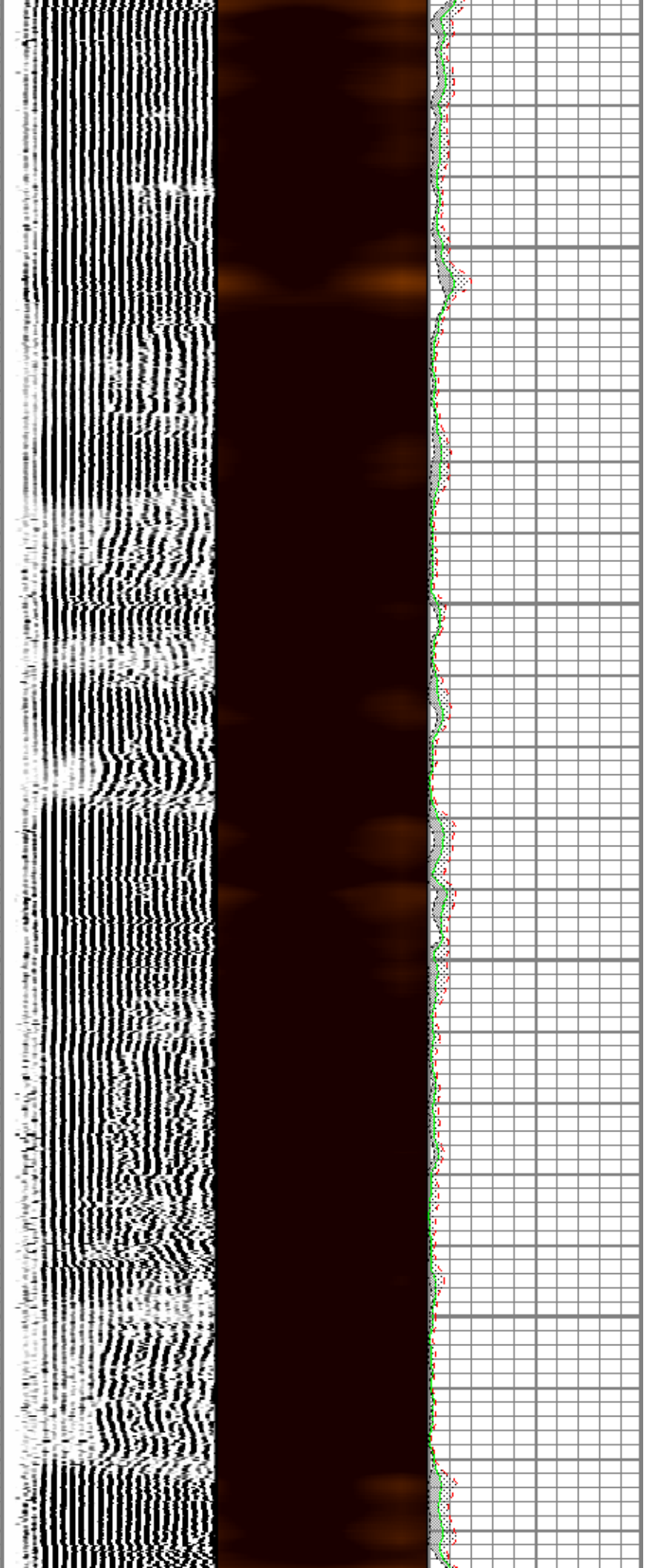
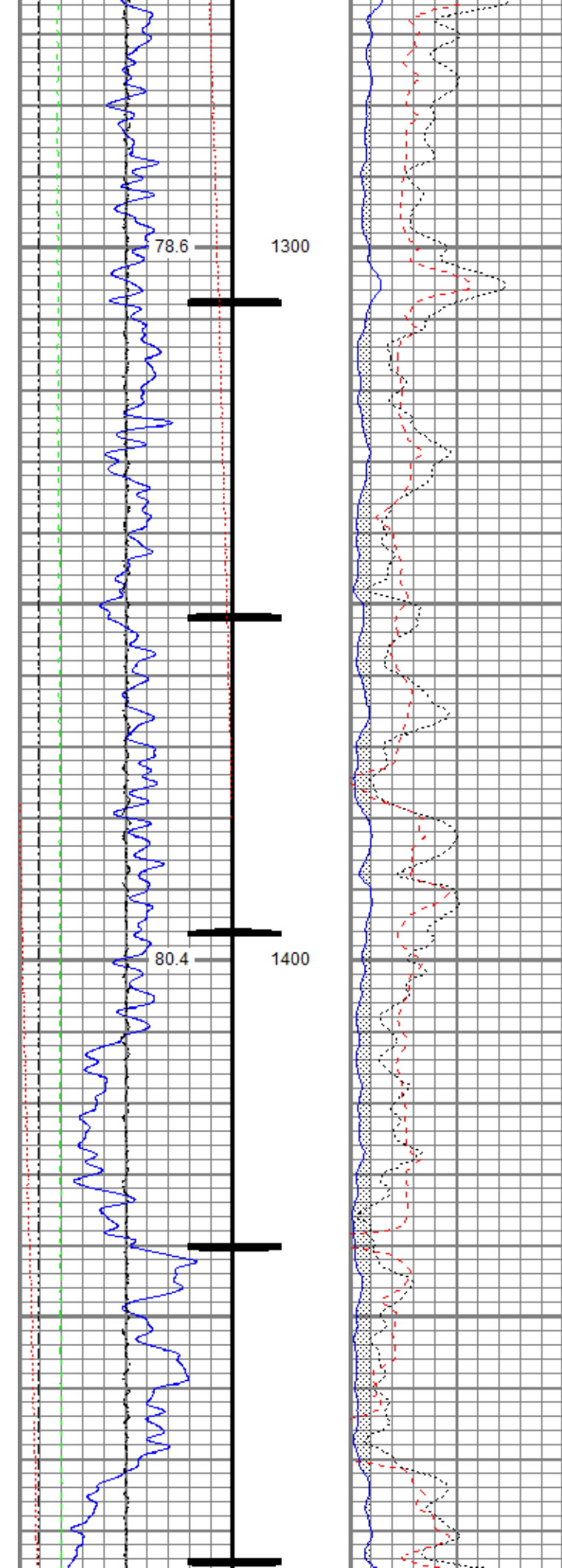


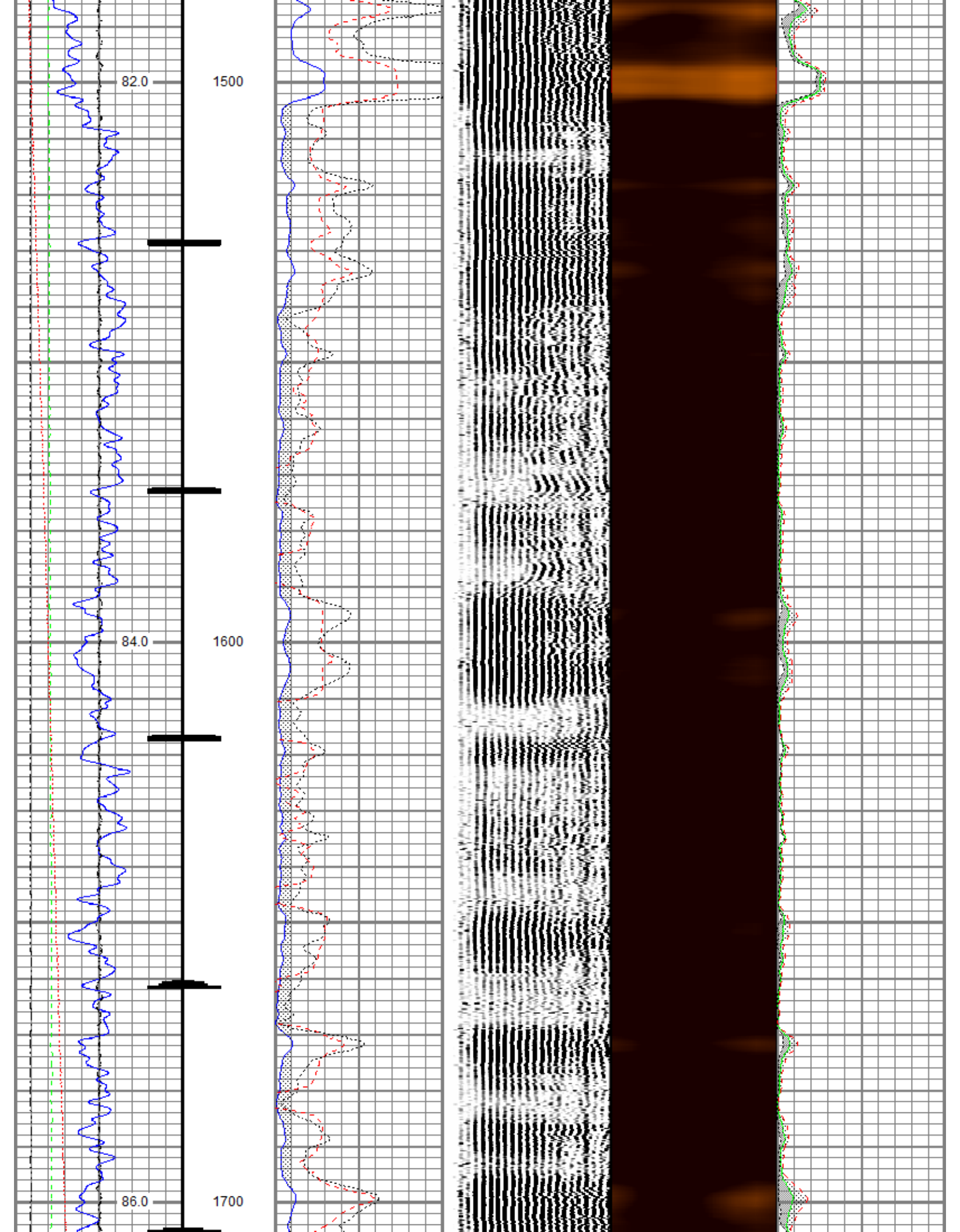


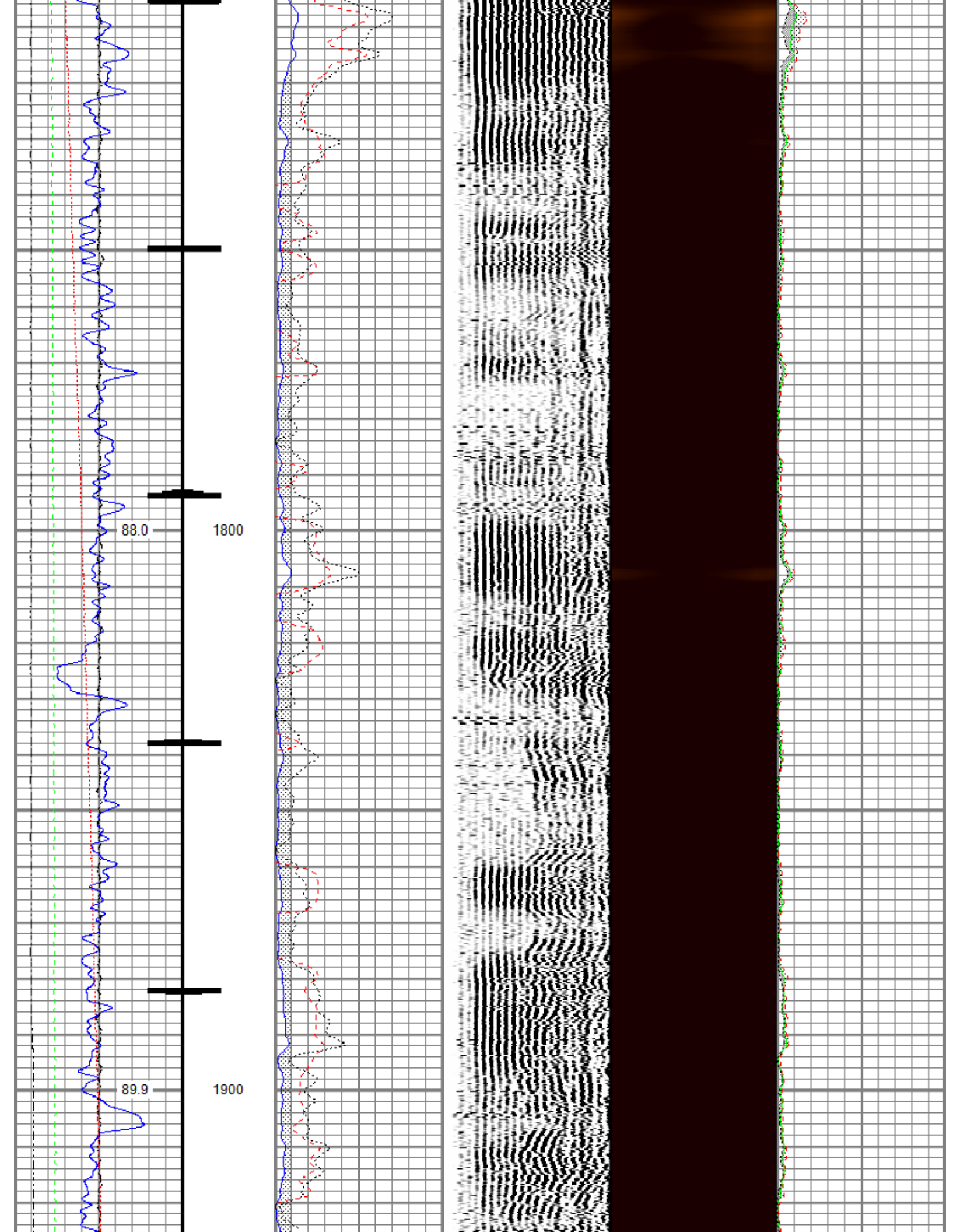


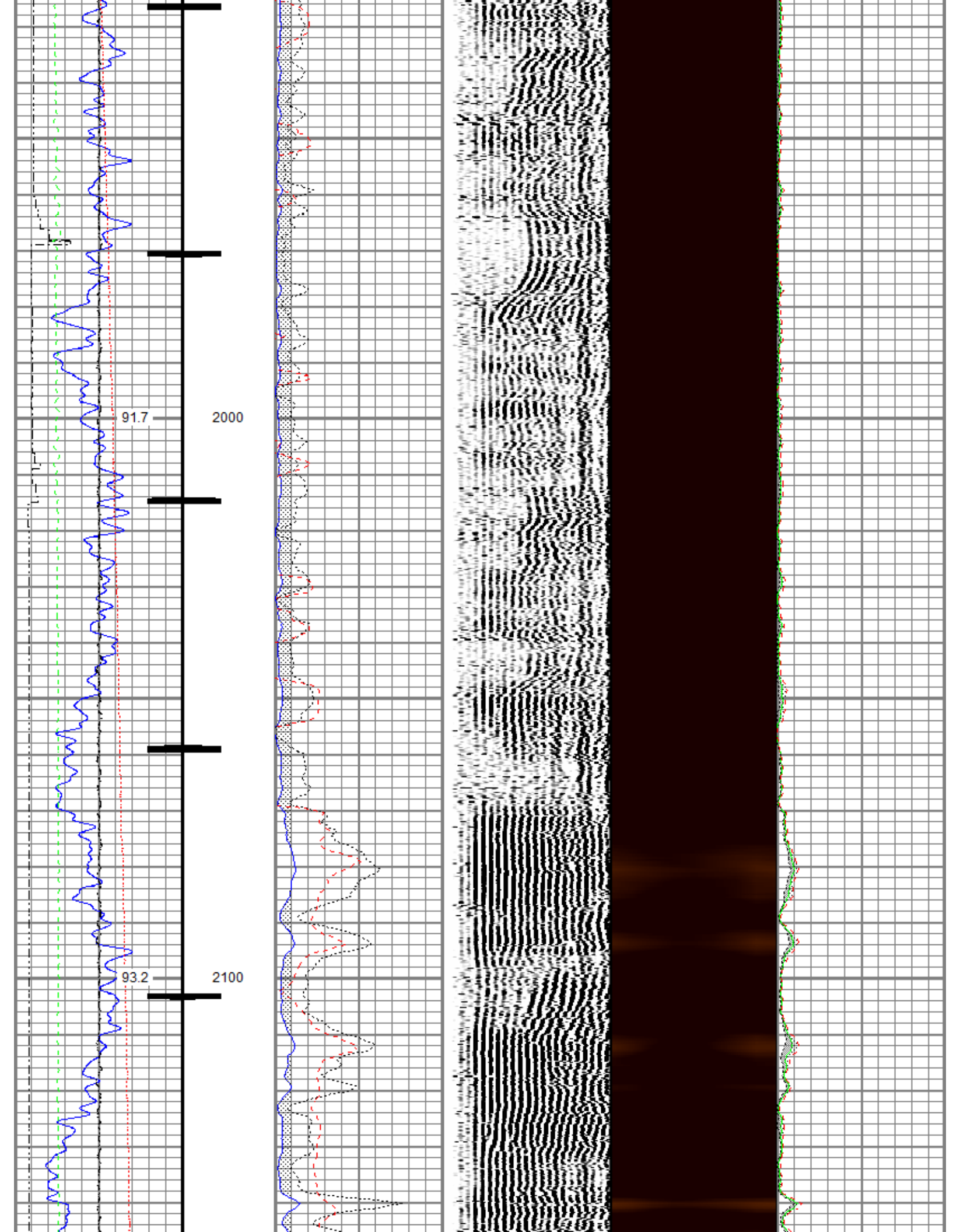


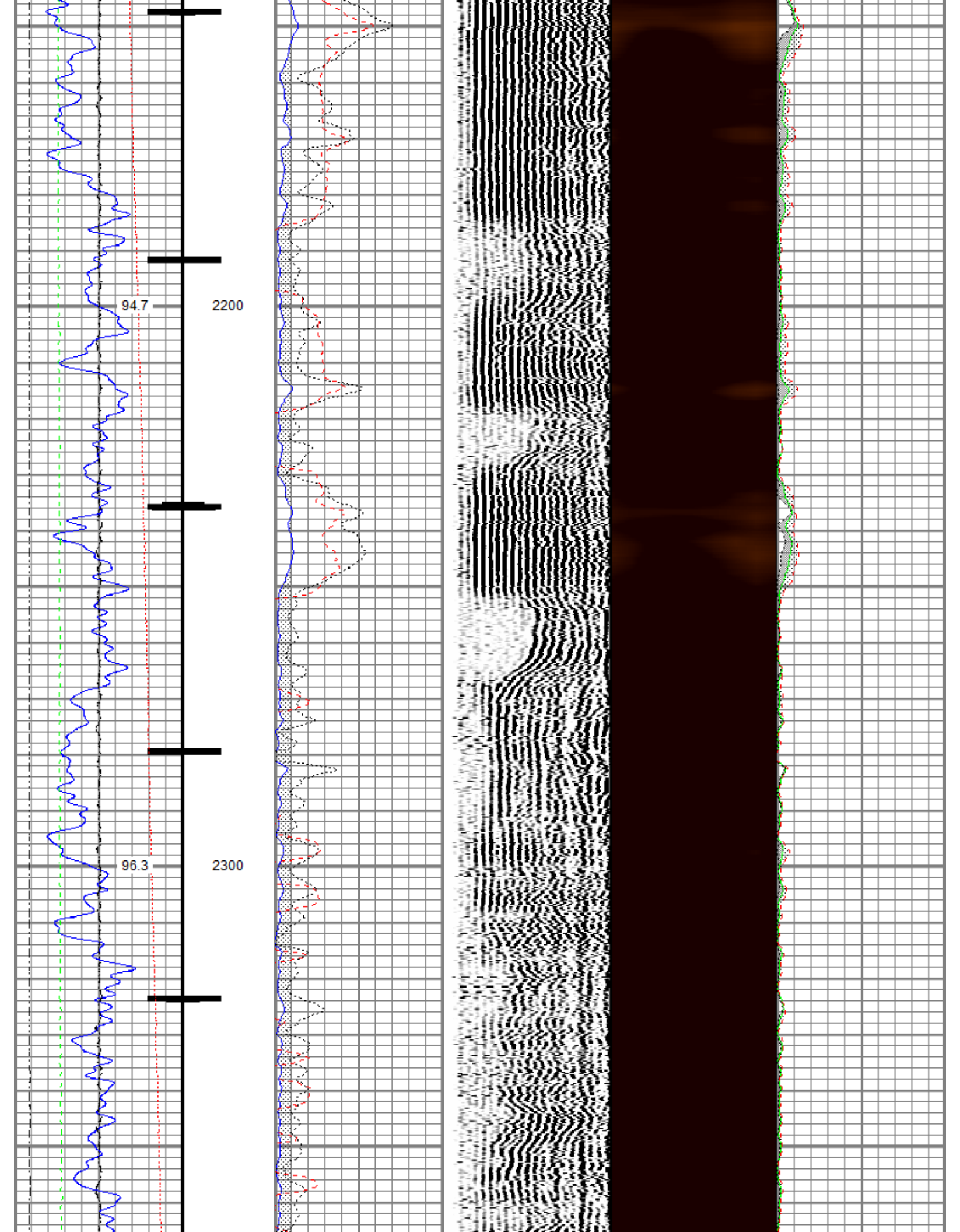


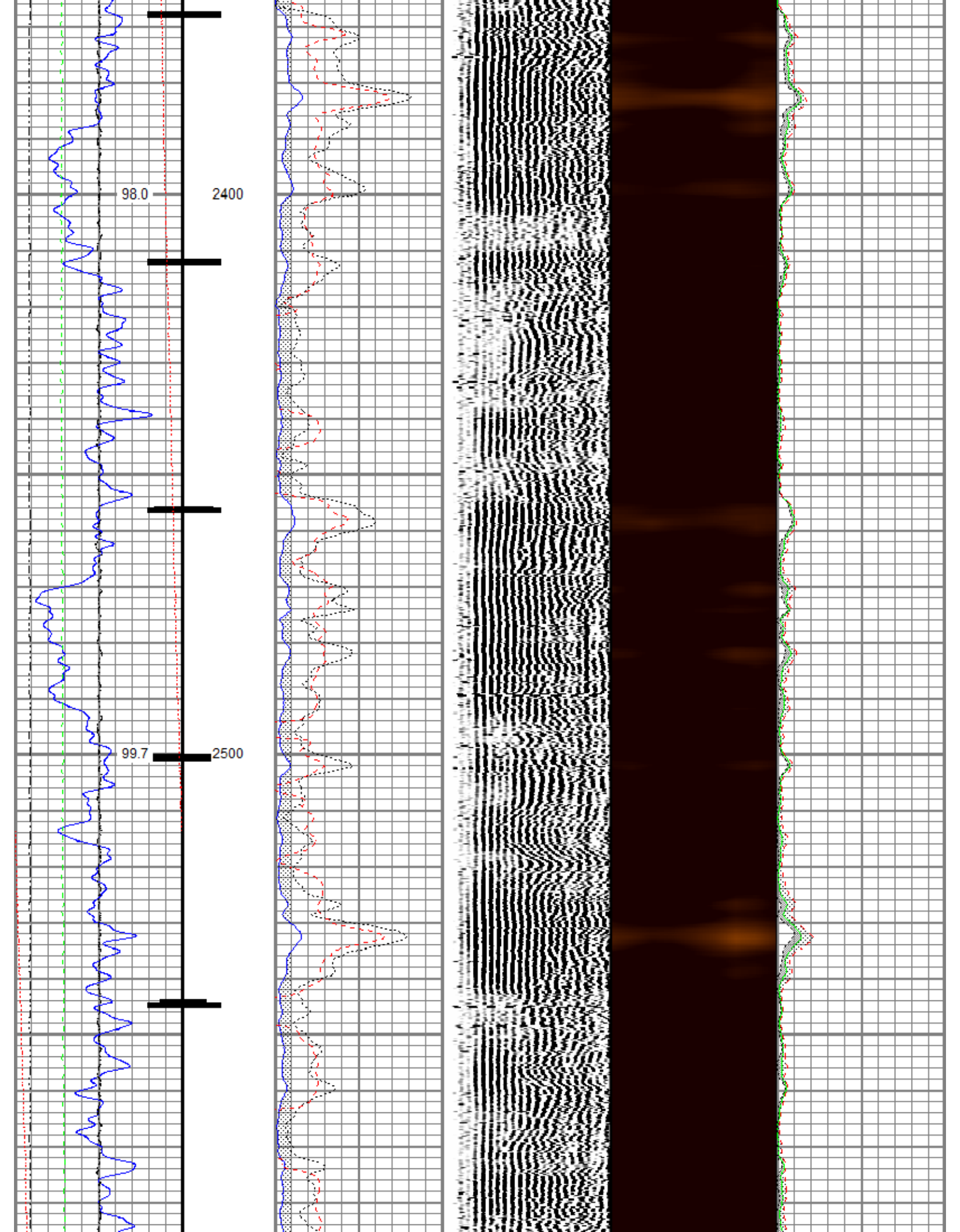


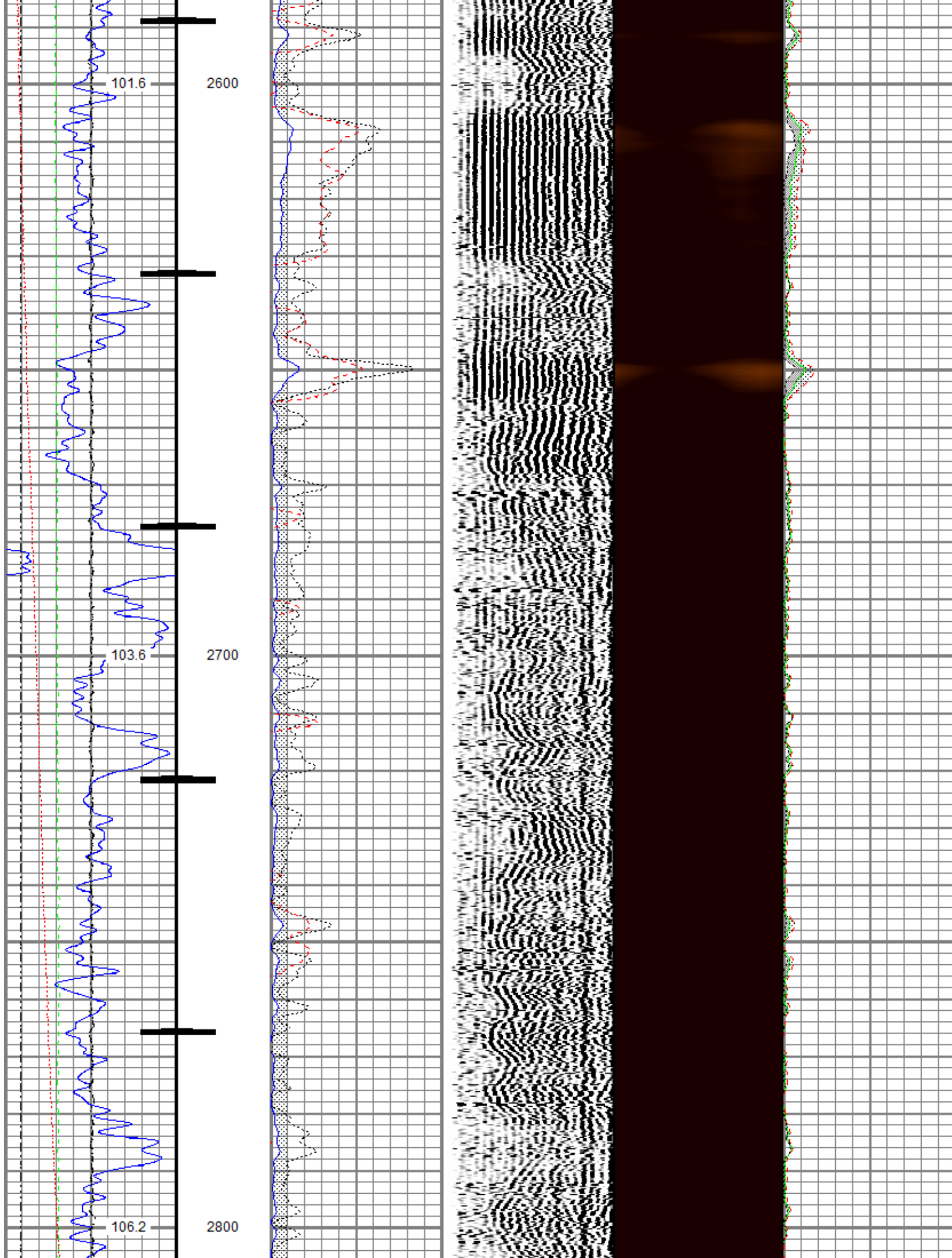


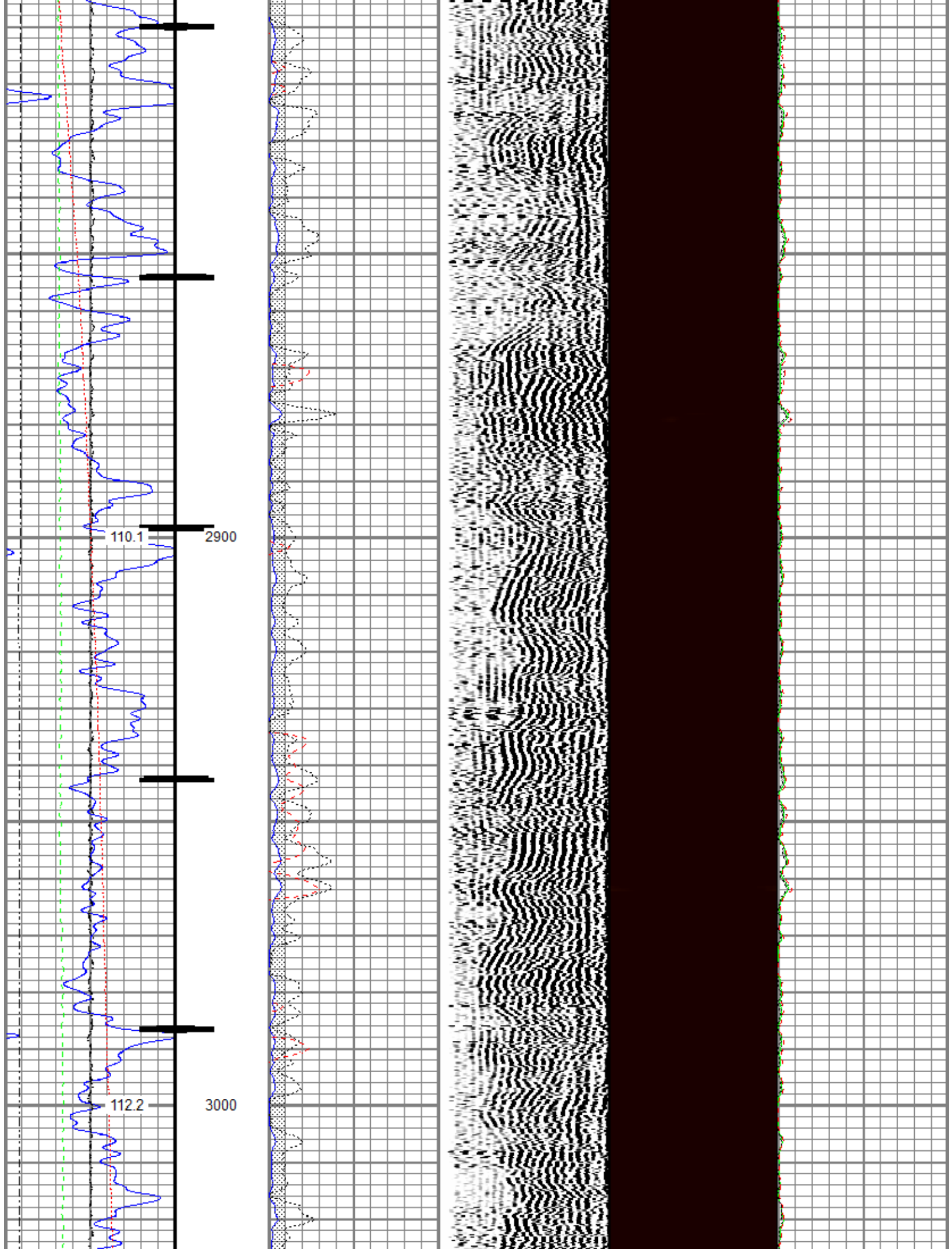


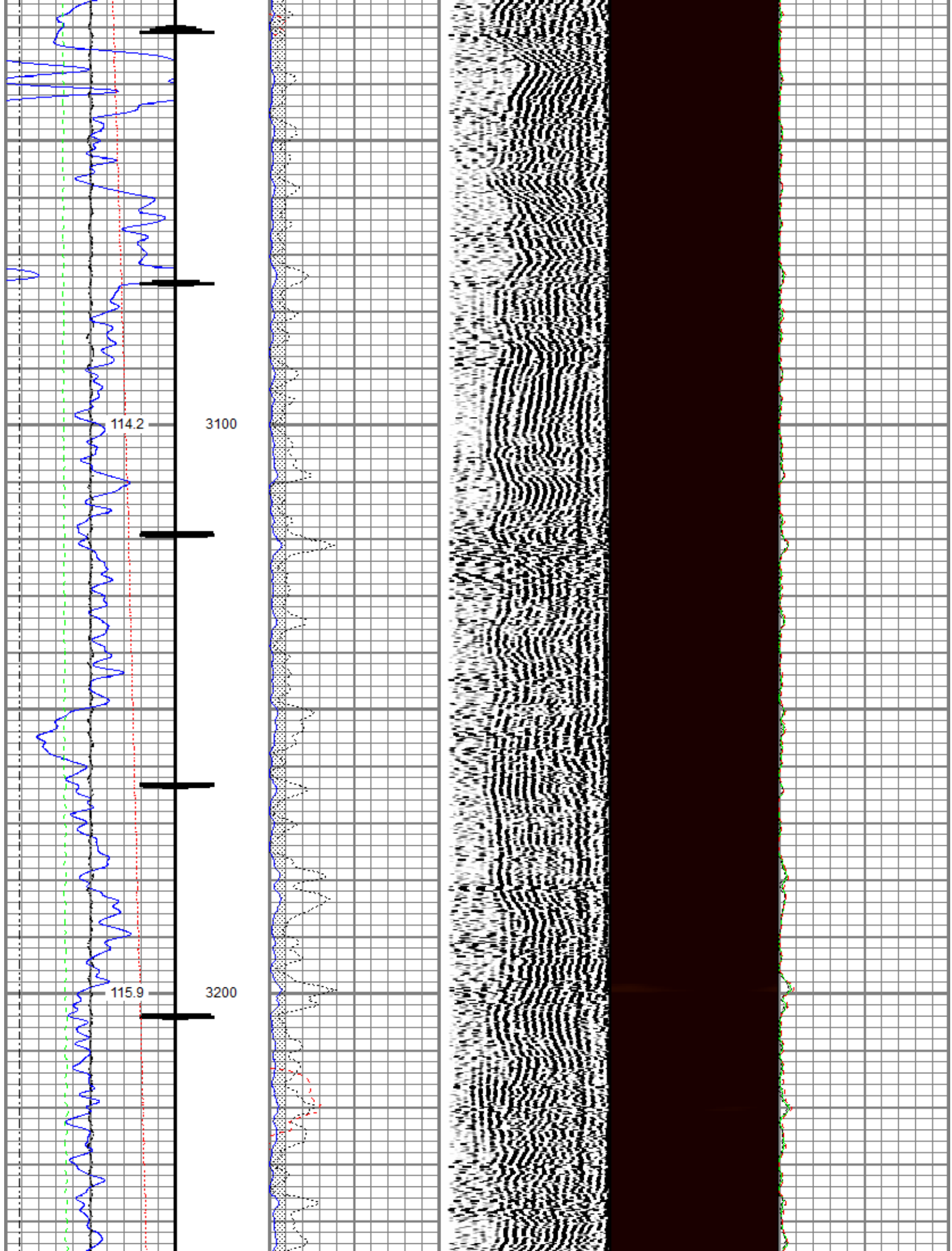


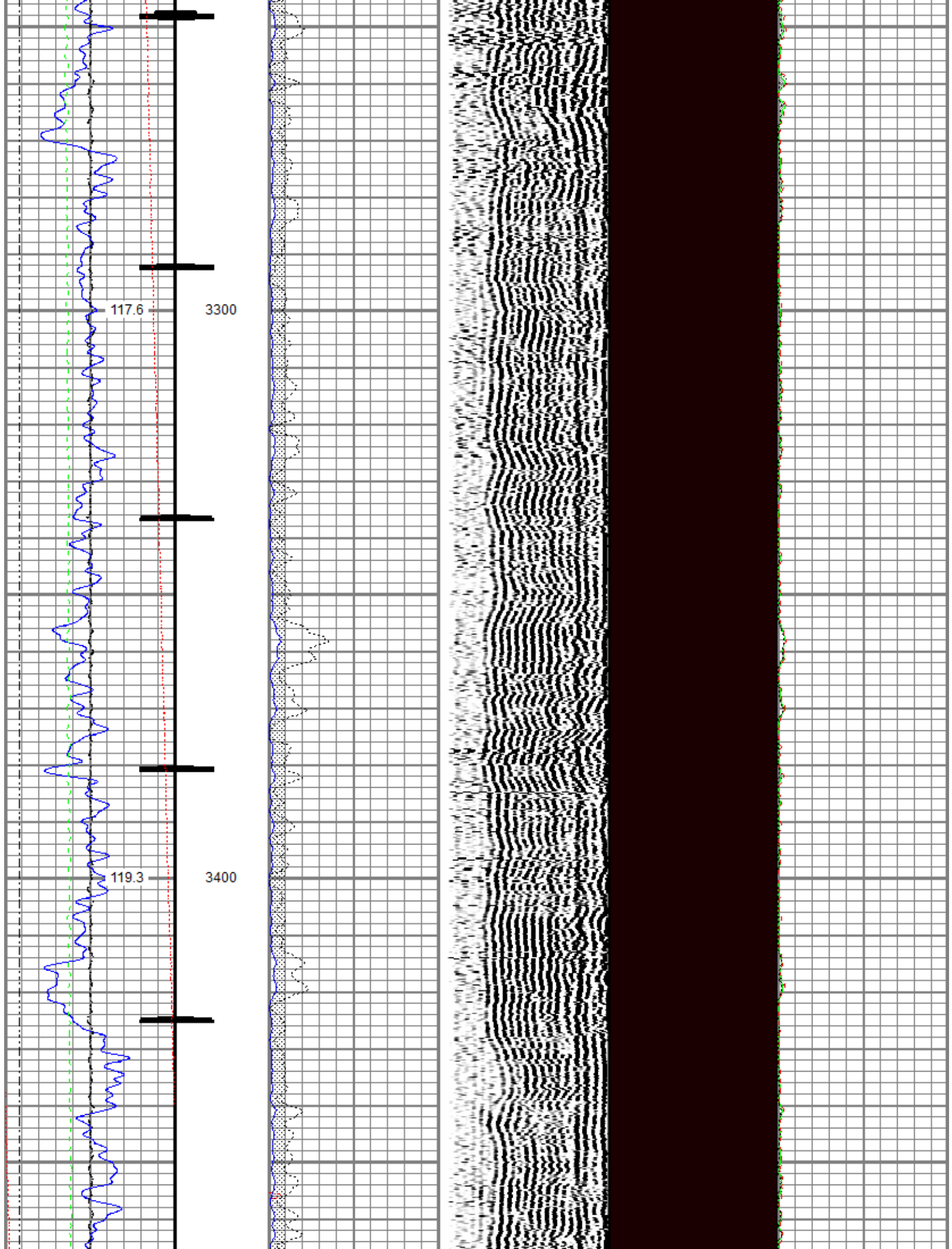


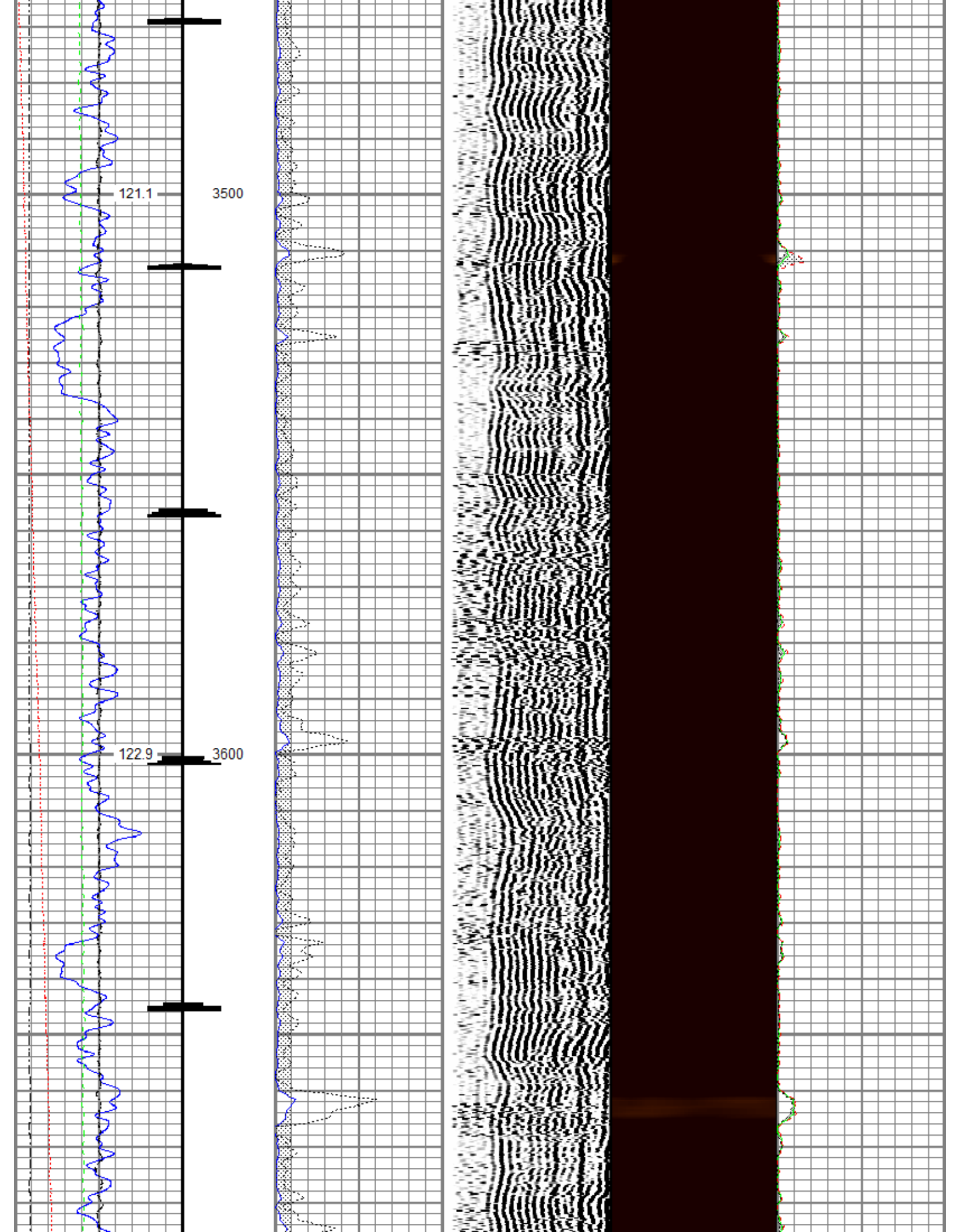












124.7

3700

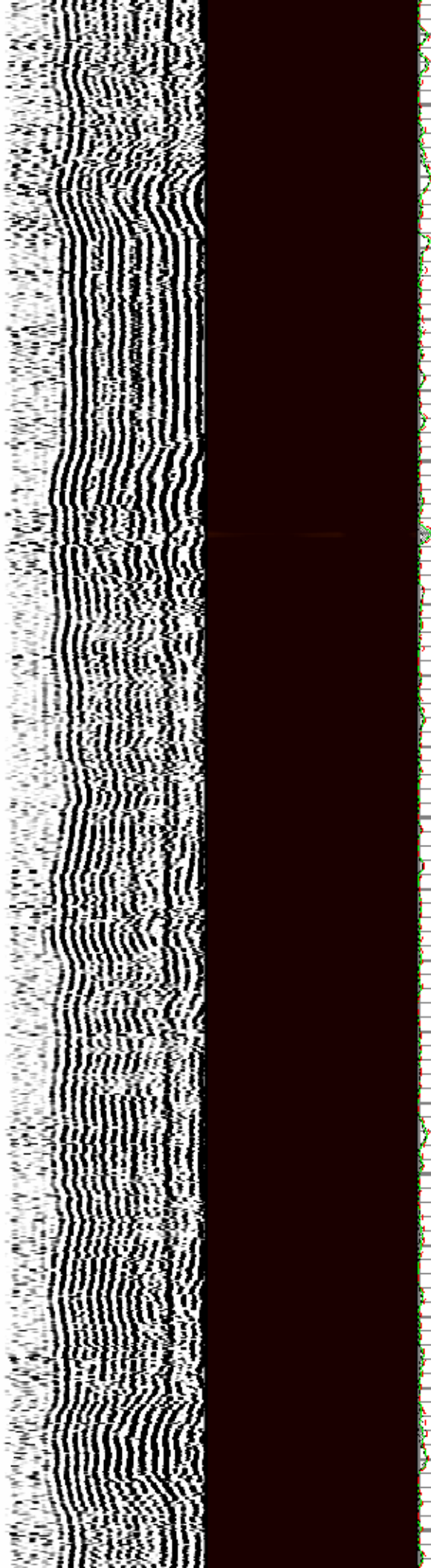
126.5

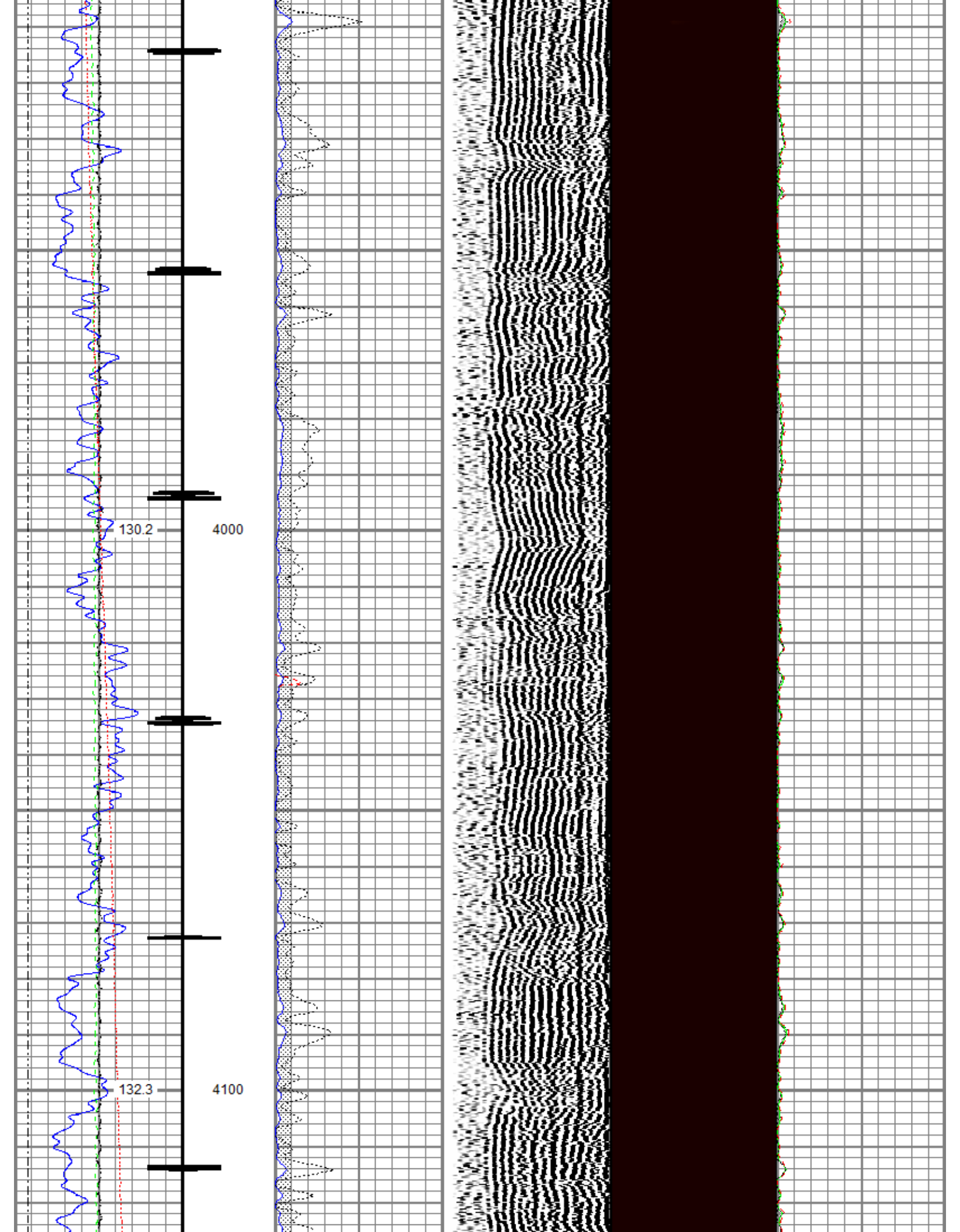
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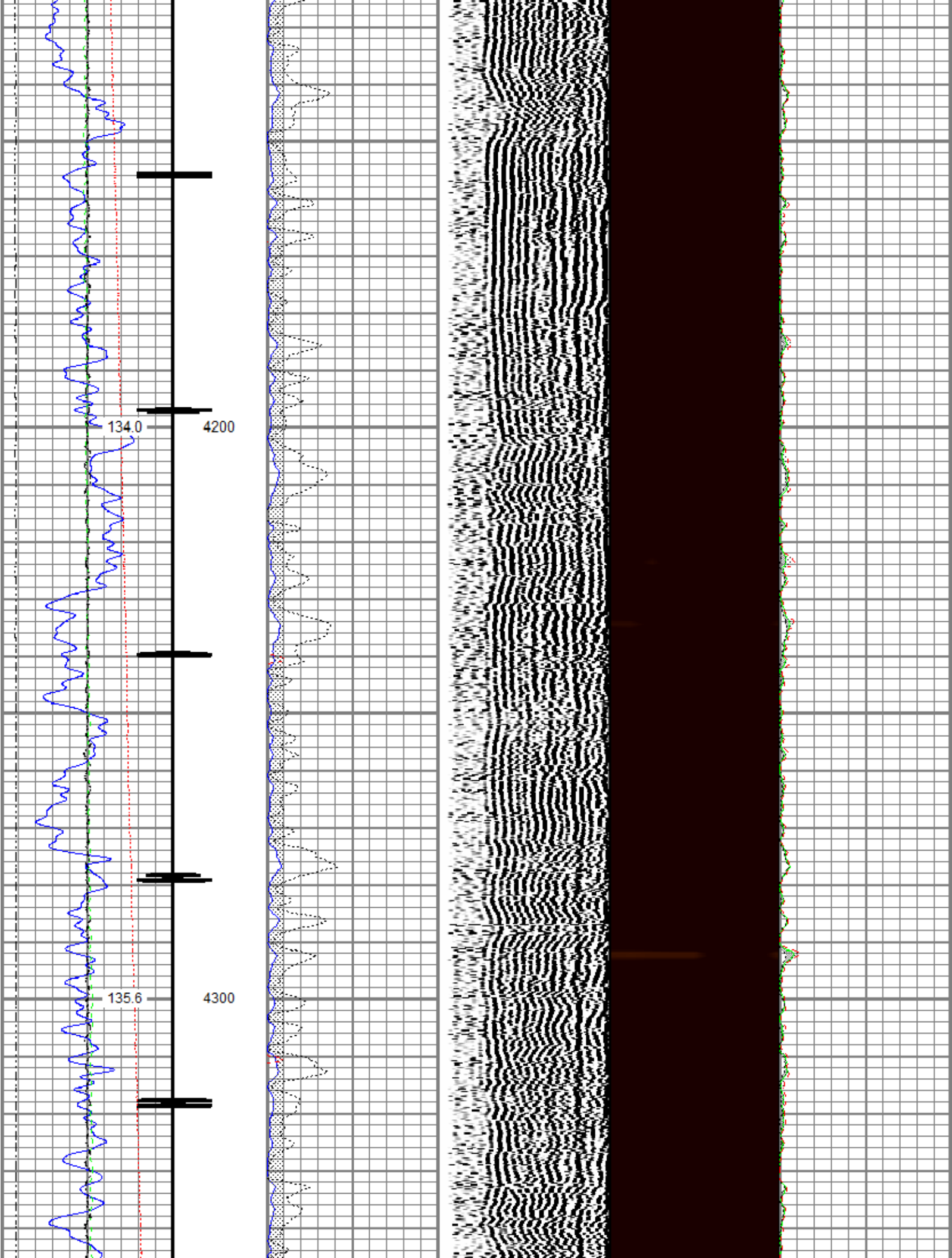
Marker Joint

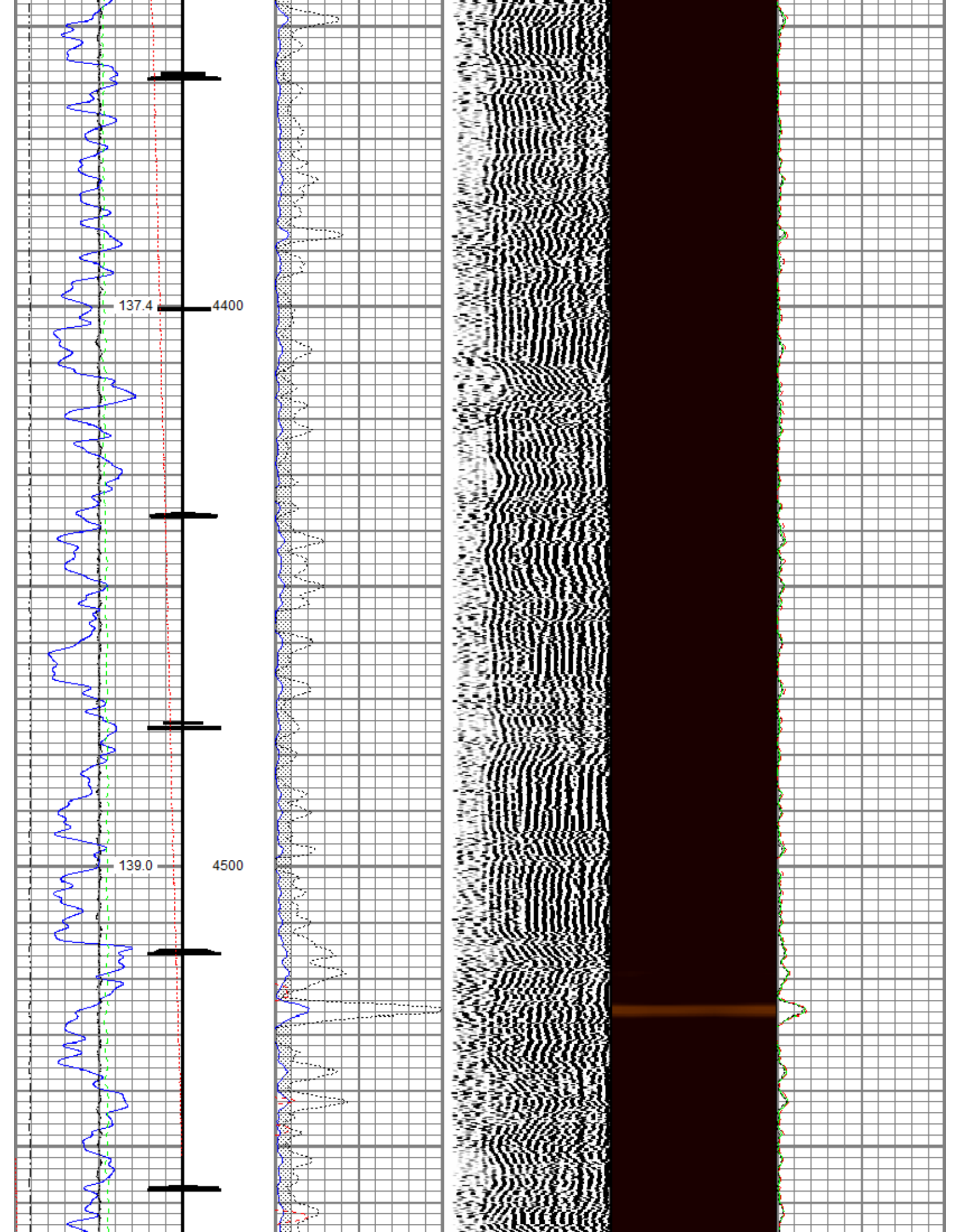
128.4

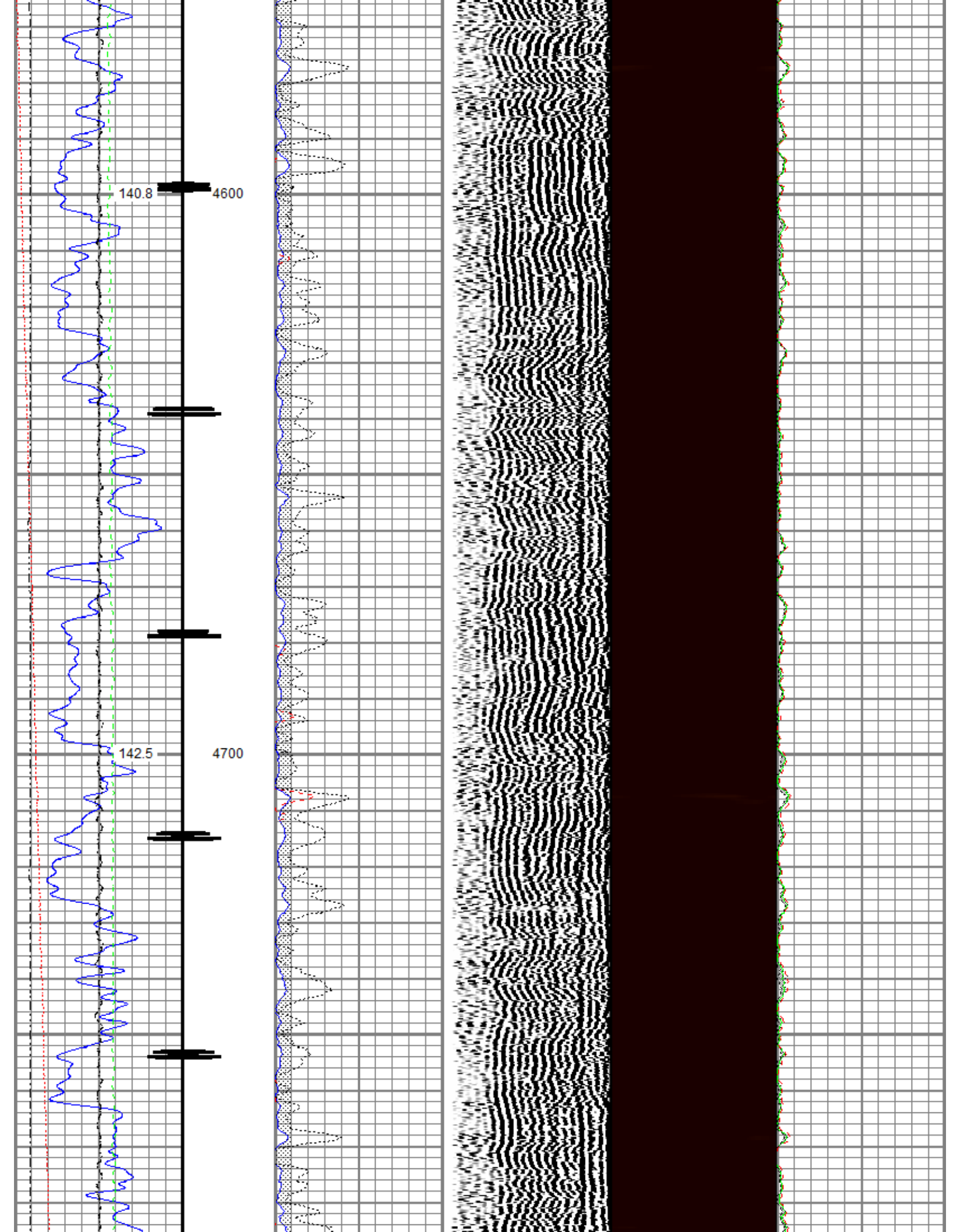
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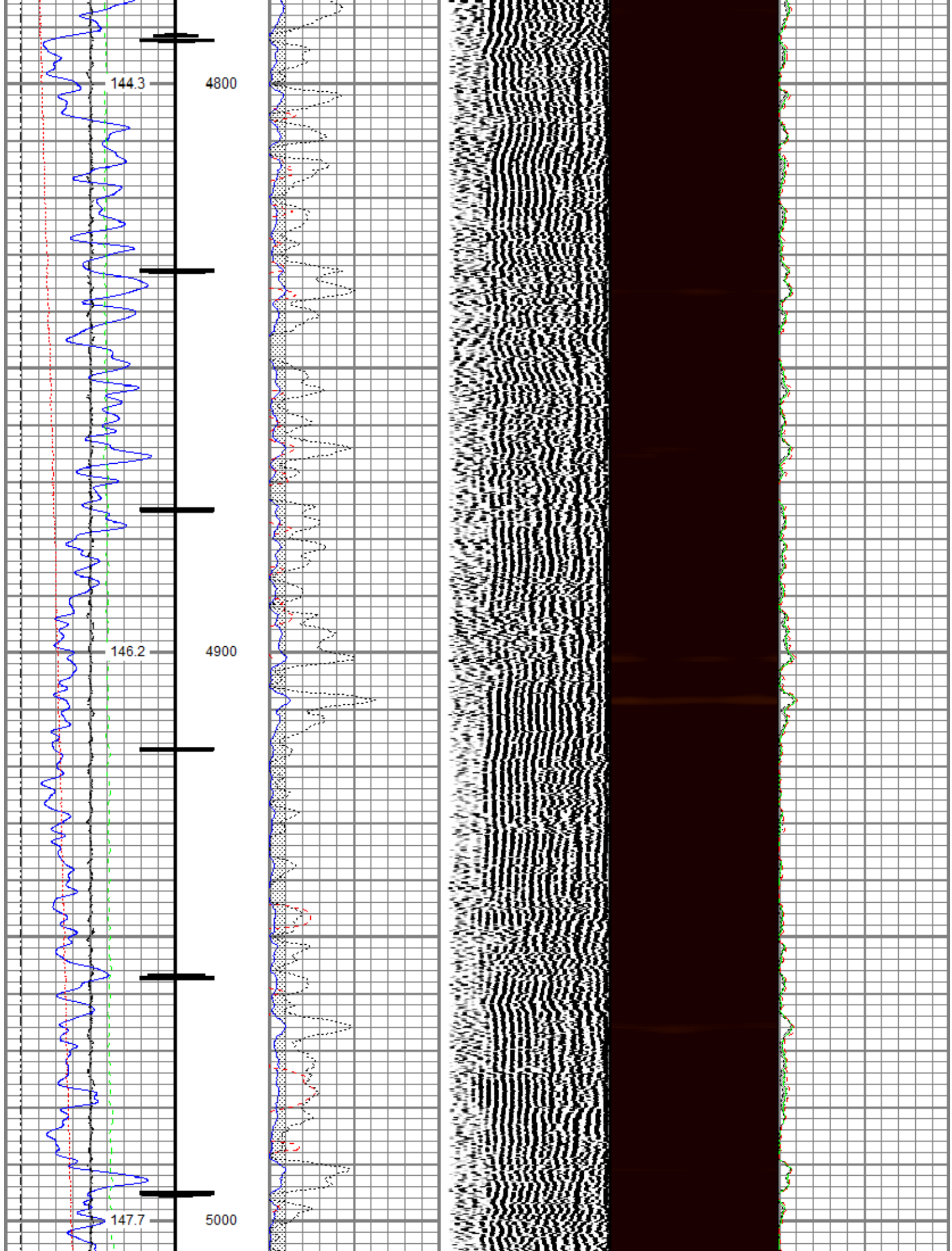


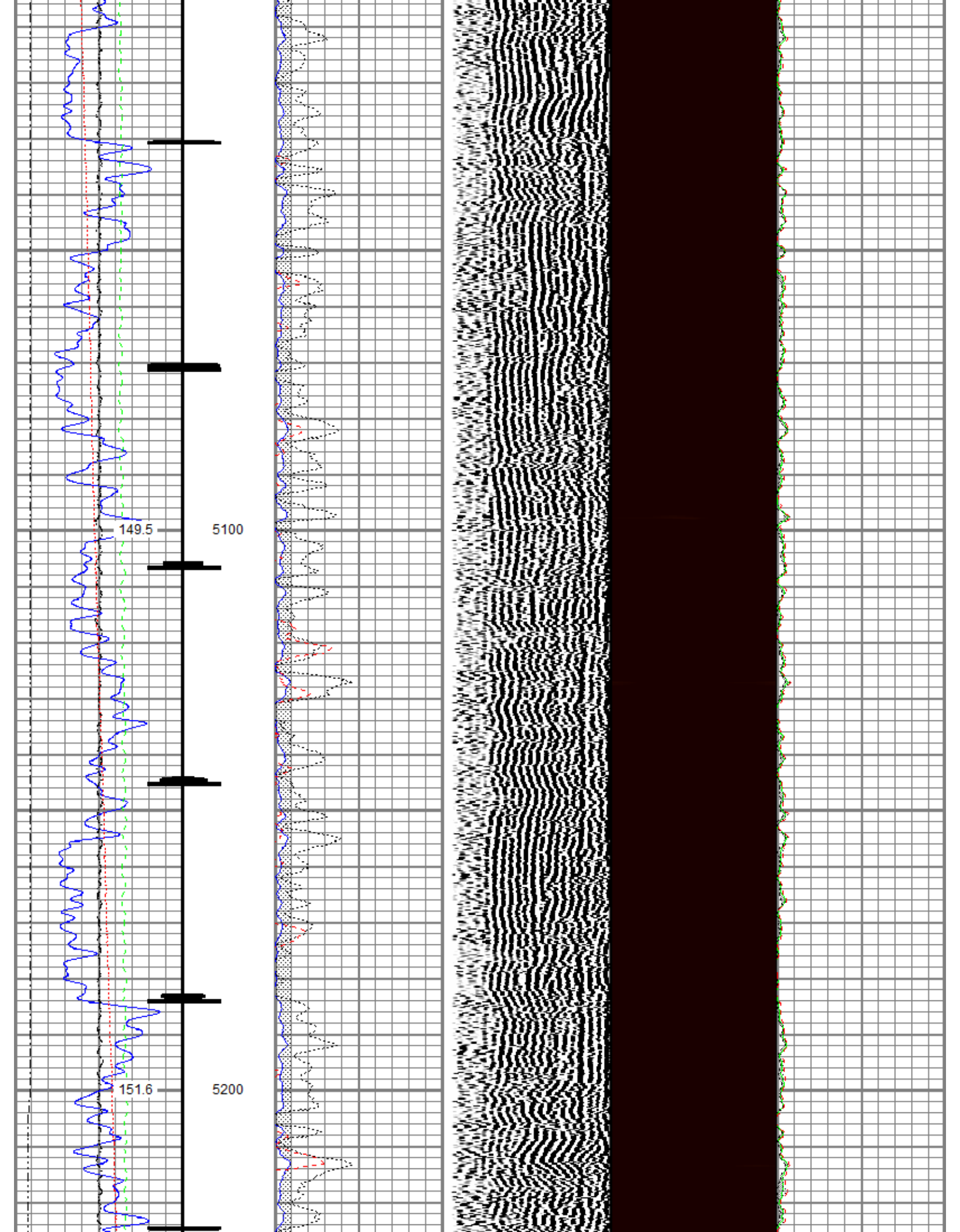


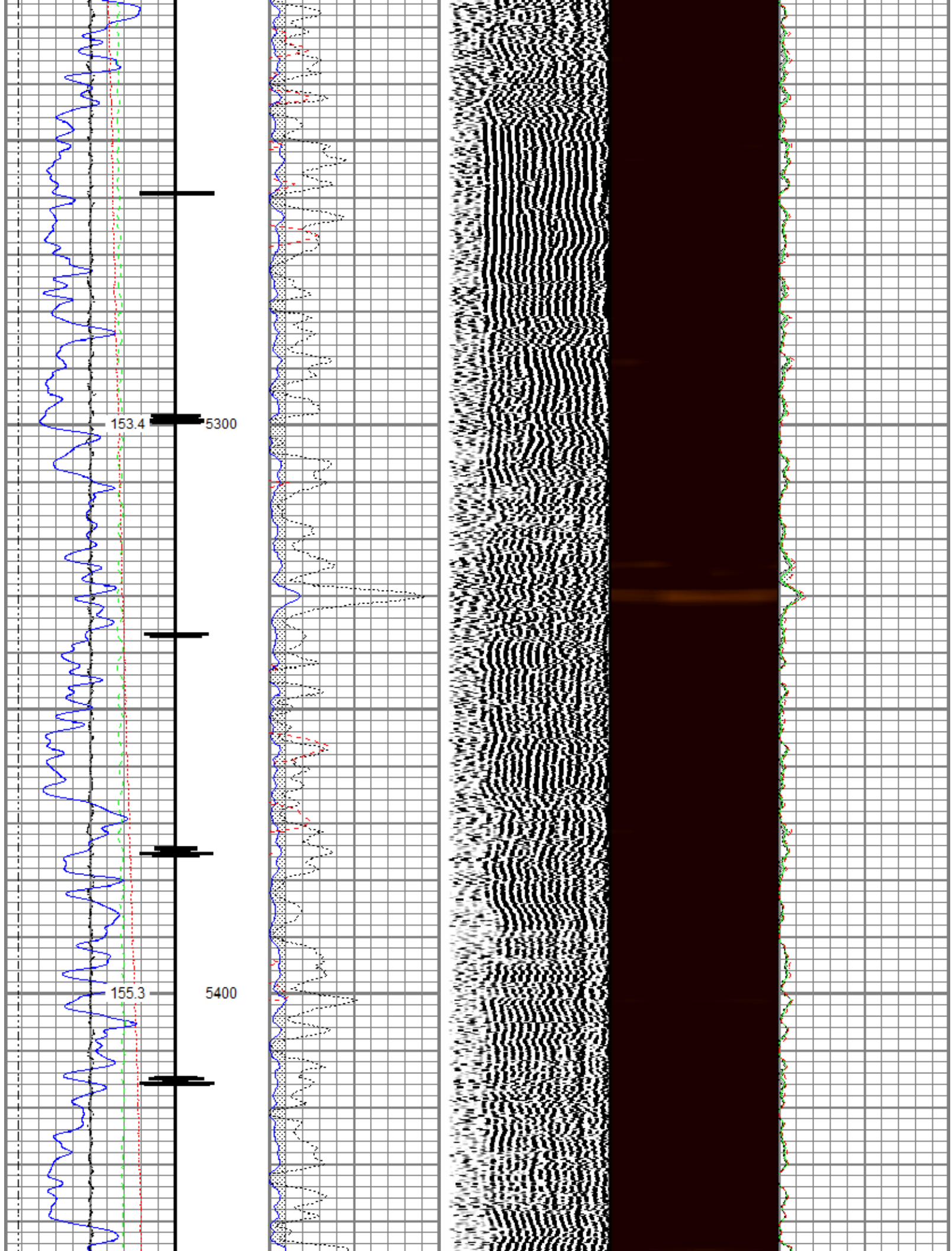


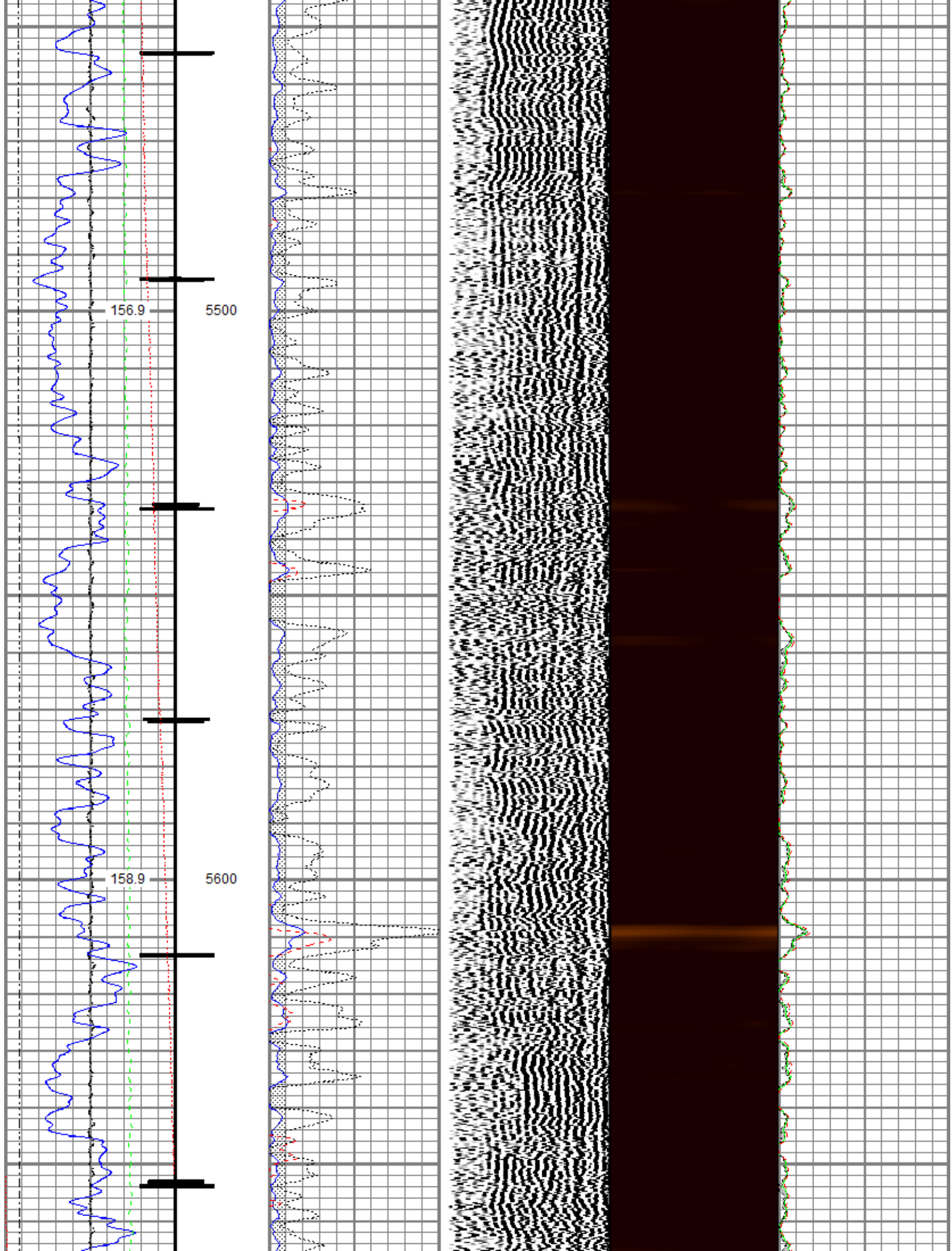


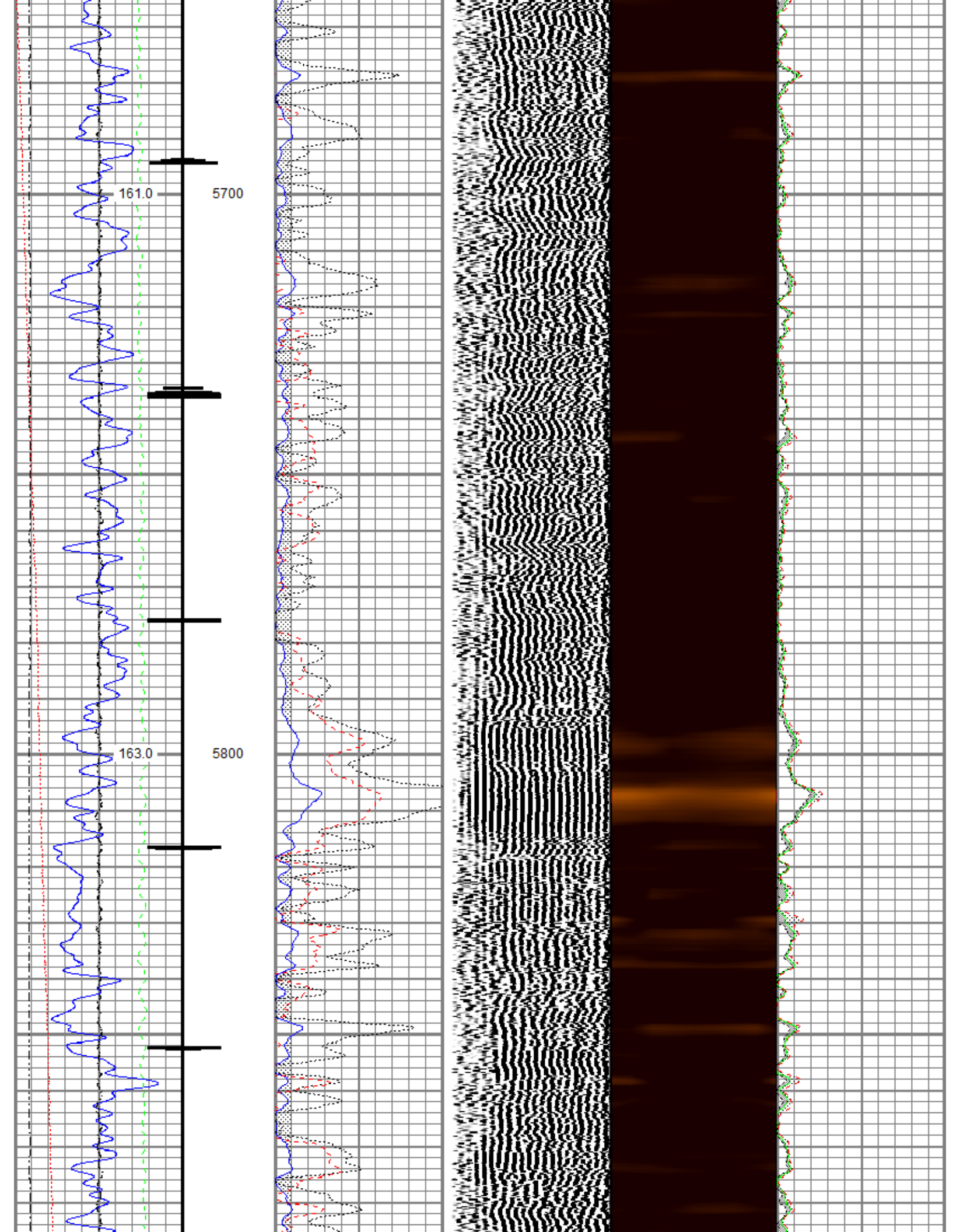


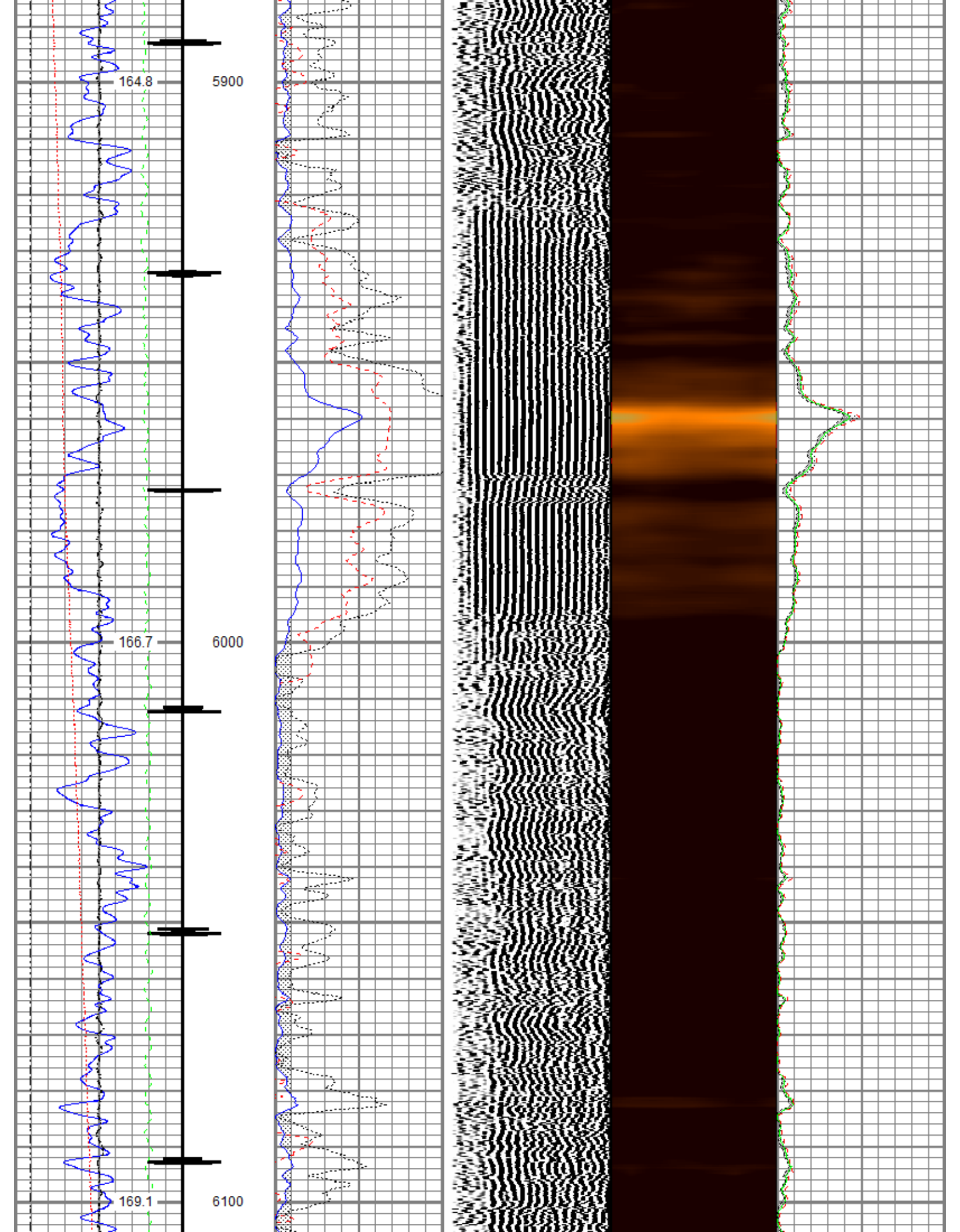


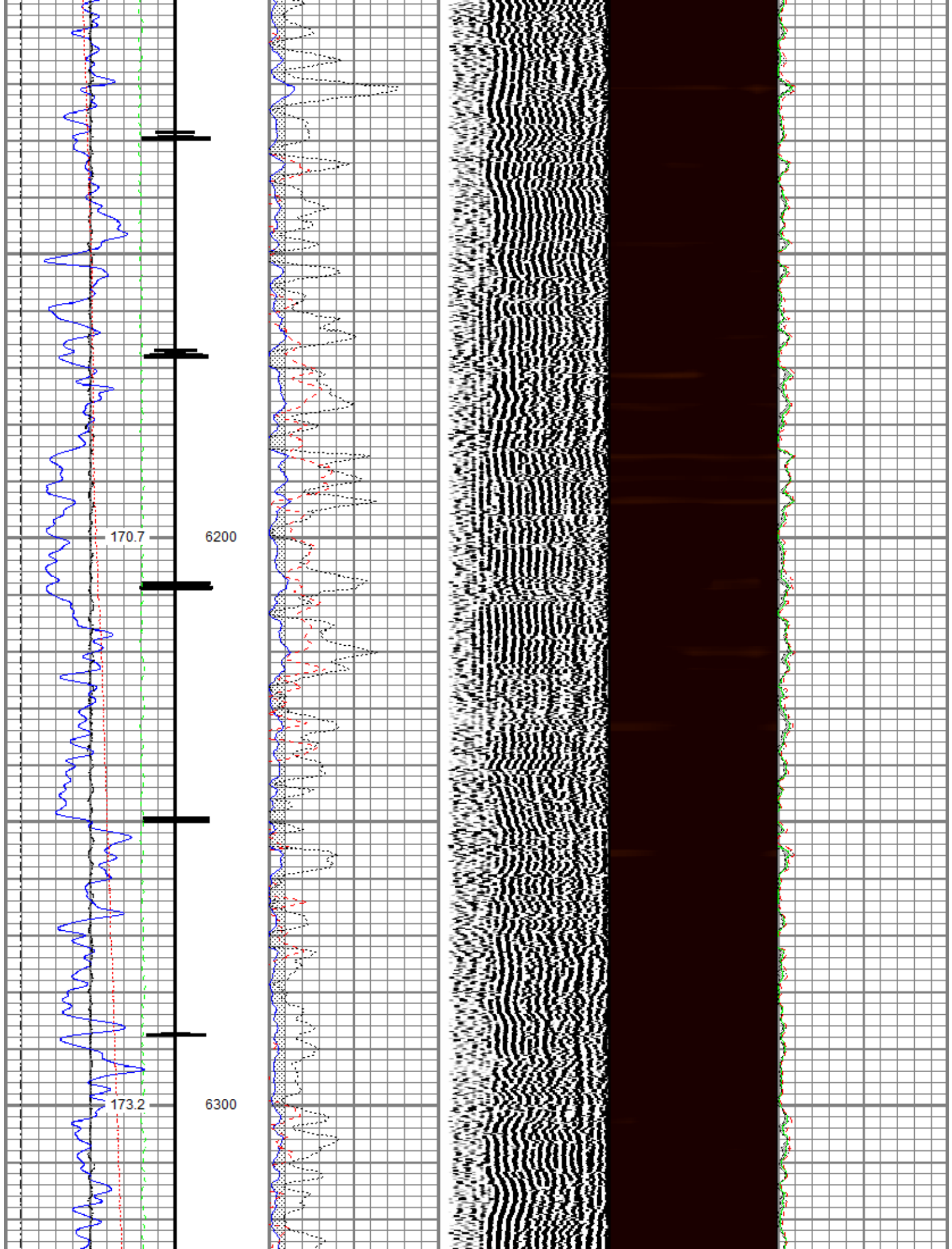


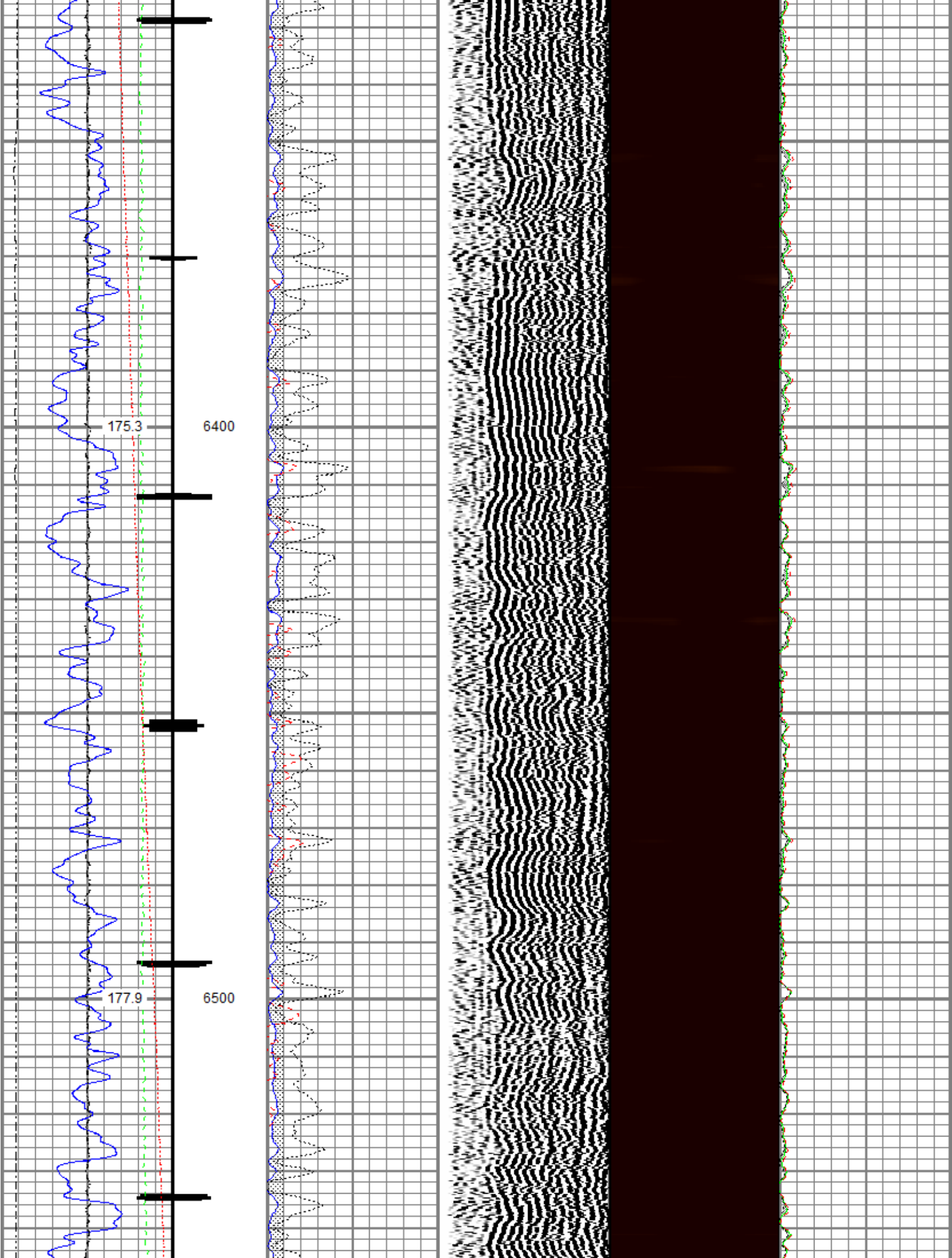


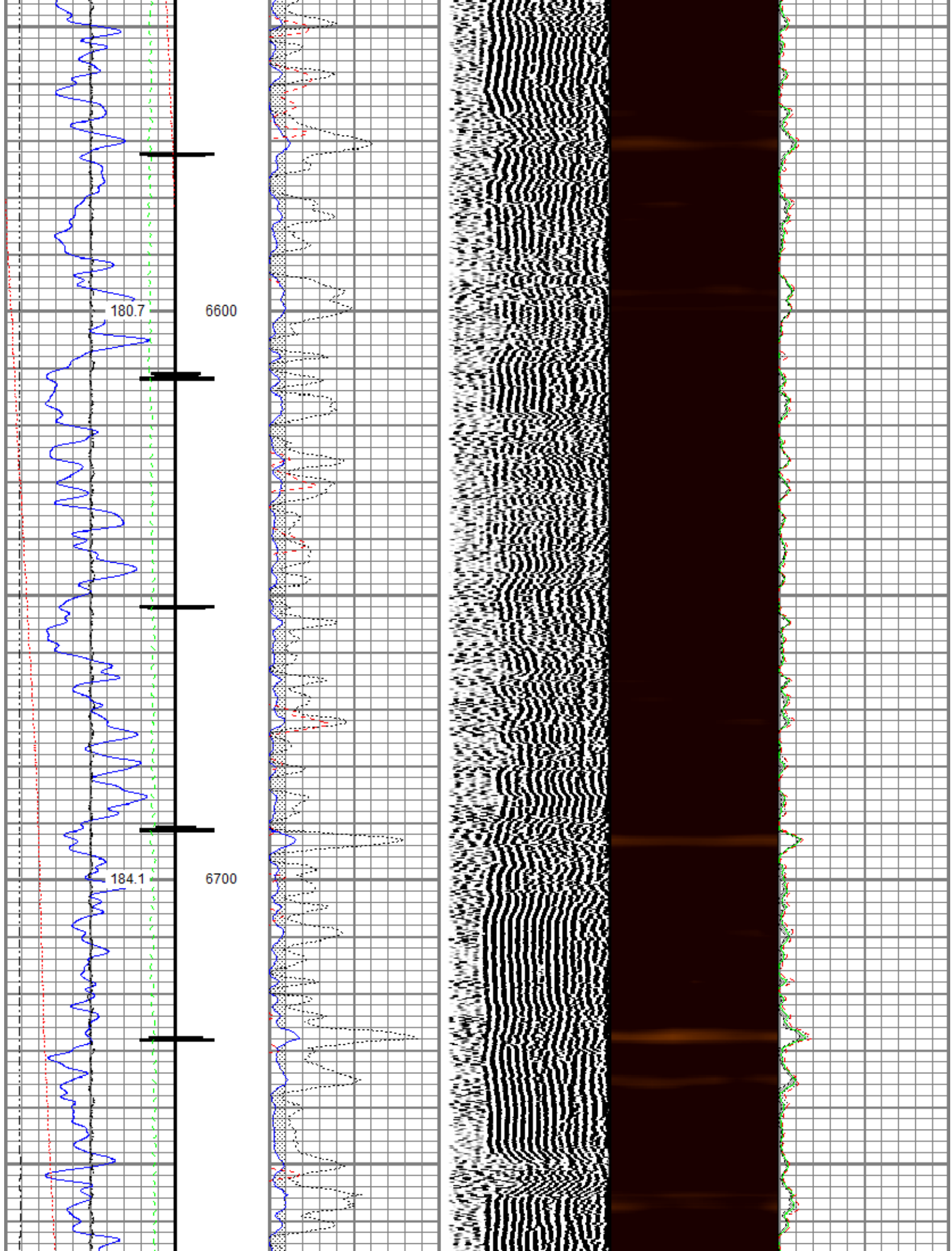


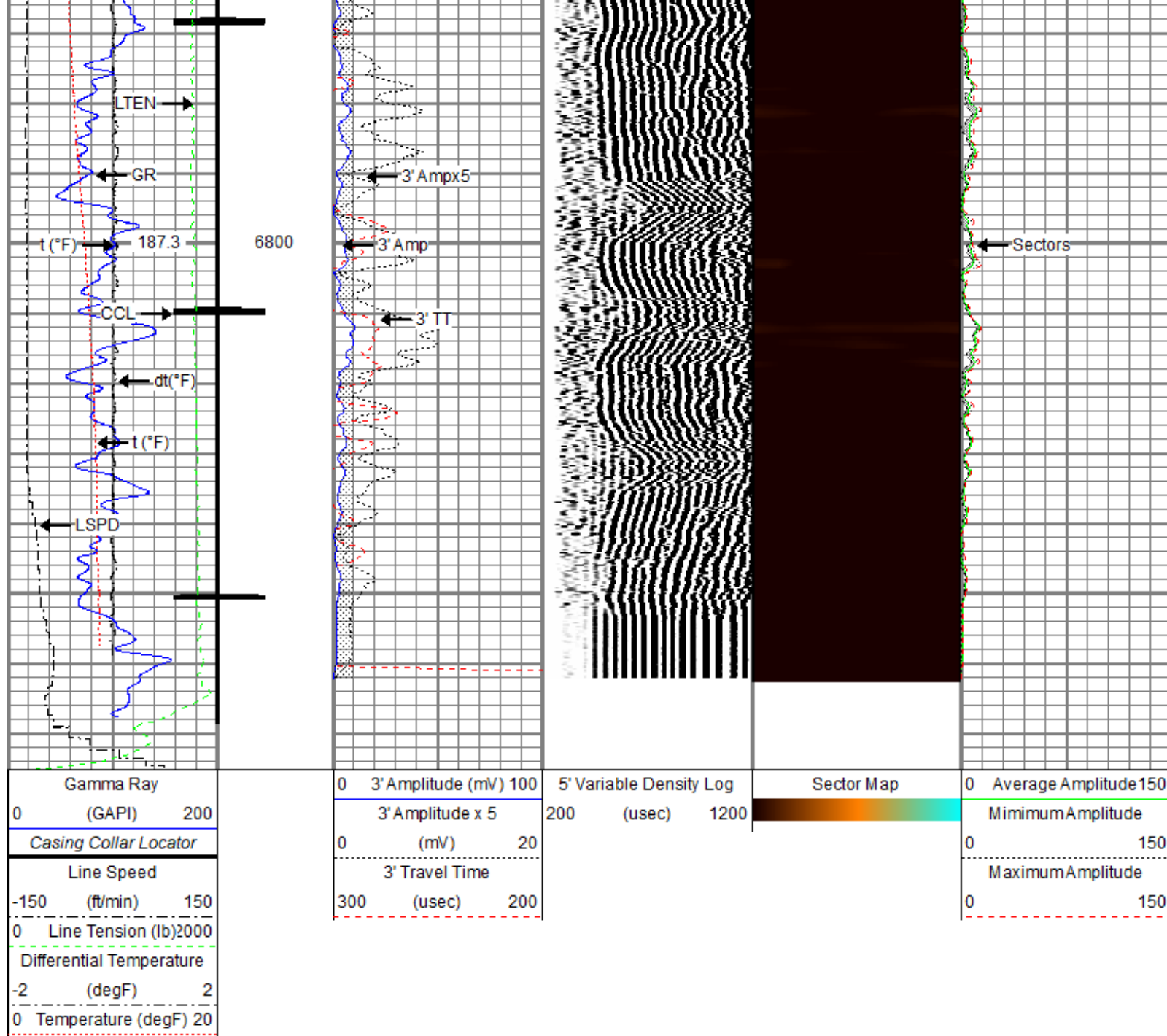








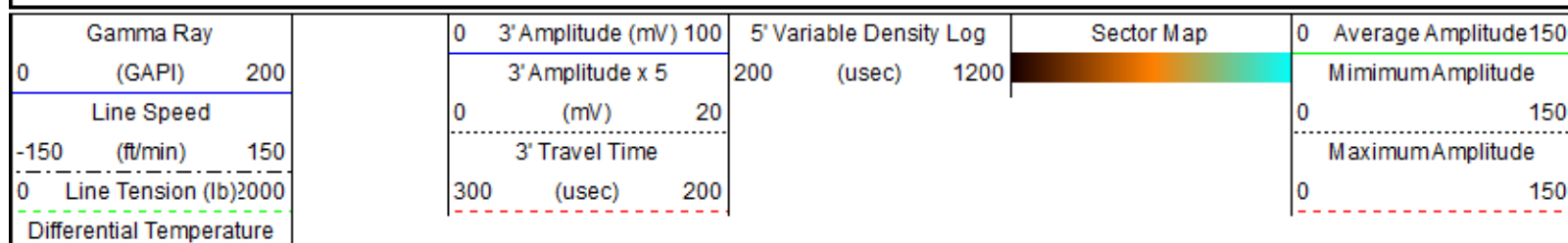


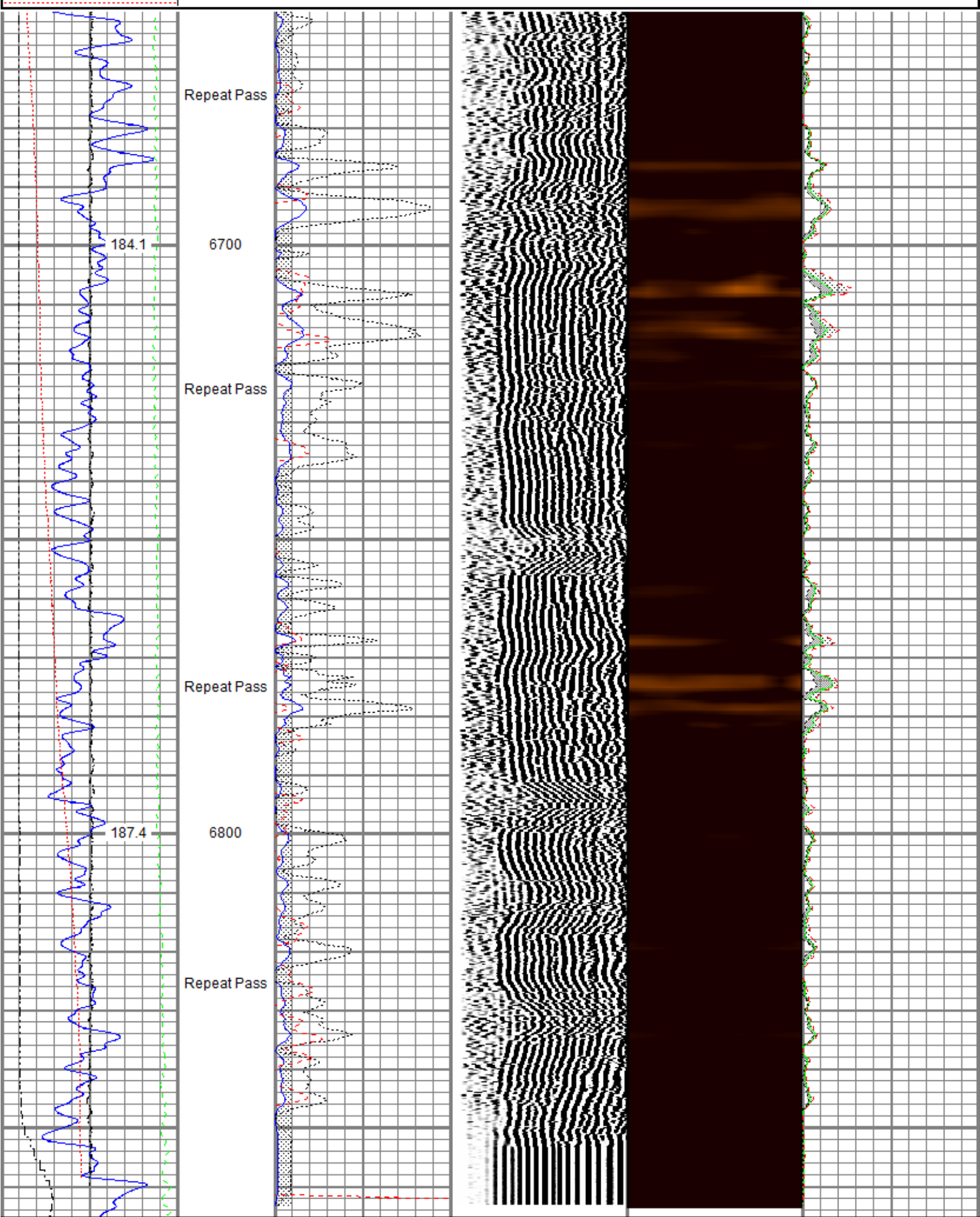



Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

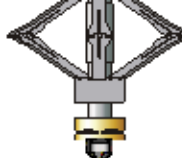
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 Dataset Pathname repeat.1
 Presentation Format ros_rbt004_tep
 Dataset Creation Sat Apr 06 20:39:49 2019
 Charted by Depth in Feet scaled 1:240





0 (GAPI) 200	3' Amplitude x 5 200 (usec) 1200		Minimum Amplitude
Line Speed 0 (mV) 20			0 150
-150 (ft/min) 150	3' Travel Time		Maximum Amplitude
0 Line Tension (lb) 2000	300 (usec) 200		0 150
Differential Temperature			
-2 (degF) 2			
0 Temperature (degF) 20			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	16.33		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			DSS RAC-2750 5A GO	2.55	2.75	32.00
			DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends			
			Probe Radii-2750 RBT (101013)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
			DSS RAC-2750 5A GO	2.55	2.75	32.00
			DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends			
			CCL\$2			
			CCL\$1			
GR	5.18		Probe GR-CCL-2750 GOB (FW1307-038)	4.51	2.75	55.00
			Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined			

			UW CENT-DSS RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
			GO BN-14375 GO 1.7/16" Bull Nose with Go Box Top	0.25	1.44	1.00
Dataset: tep_federal sg 341-21_rbl_04-05-19.db: field/well/run1/main.1 Total length: 22.82 ft Total weight: 260.60 lb O.D.: 2.75 in						

Calibration Report	
Database File	c:\programdata\warrior\data\tep_federal sg 341-21_rbl_04-05-19\tep_federal sg 341-21_rbl_04-05-19.db
Dataset Pathname	main.1
Dataset Creation	Sat Apr 06 20:35:32 2019

Gamma Ray Calibration Report		
Serial Number:	FW1307-038	
Tool Model:	2750 GOB	
Performed:	Sun Nov 12 12:44:12 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.2	cps
Calibrator Reading:	1022.4	cps
Sensitivity:	0.7007	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	101013	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	-96.813	ft

Master Calibration, performed Fri Apr 05 18:37:37 2019:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.827	0.800	81.196	97.870	0.252
CAL	0.003	0.741				
5'	0.004	0.553	0.800	81.196	146.437	0.272
SUM						
S1	0.008	0.833	0.000	100.000	121.220	-0.918
S2	0.007	0.832	0.000	100.000	121.246	-0.846
S3	0.005	0.813	0.000	100.000	123.738	-0.567
S4	0.006	0.807	0.000	100.000	124.917	-0.764
S5	0.007	0.776	0.000	100.000	130.019	-0.892
S6	0.005	0.807	0.000	100.000	124.727	-0.664
S7	0.003	0.831	0.000	100.000	120.735	-0.362
S8	0.007	0.879	0.000	100.000	114.675	-0.766

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.741	1.000	0.000

Air Zero Calibration, performed Fri Apr 05 18:37:57 2019:						
	Raw (v)		Calibrated (v)		Results	

	Zero	Zero	Offset
3'	0.005	0.000	-0.000
5'	0.006	0.000	-0.001
SUM			
S1	0.003	0.000	0.000
S2	0.003	0.000	0.001
S3	0.003	0.000	0.000
S4	0.005	0.000	-0.000
S5	0.006	0.000	-0.000
S6	0.005	0.000	-0.000
S7	0.003	0.000	-0.000
S8	0.005	0.000	-0.000

Temperature Calibration Report			
Serial Number:	101013		
Tool Model:	2750 RBT		
Performed:	Sun Nov 12 13:21:13 2017		
	Reference	Reading	
Low Reference:	100.00 degF	112.30	degF
High Reference:	350.00 degF	394.75	degF
Gain:	0.89		
Offset:	0.60		
Delta Spacing	1		

	Company	TEP Rocky Mountain LLC
	Well	Federal SG 341-21
	Field	Grand Valley
	County	Garfield
	State	Colorado