

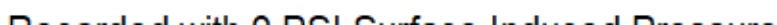


<<< Fold Here >>>

Comments

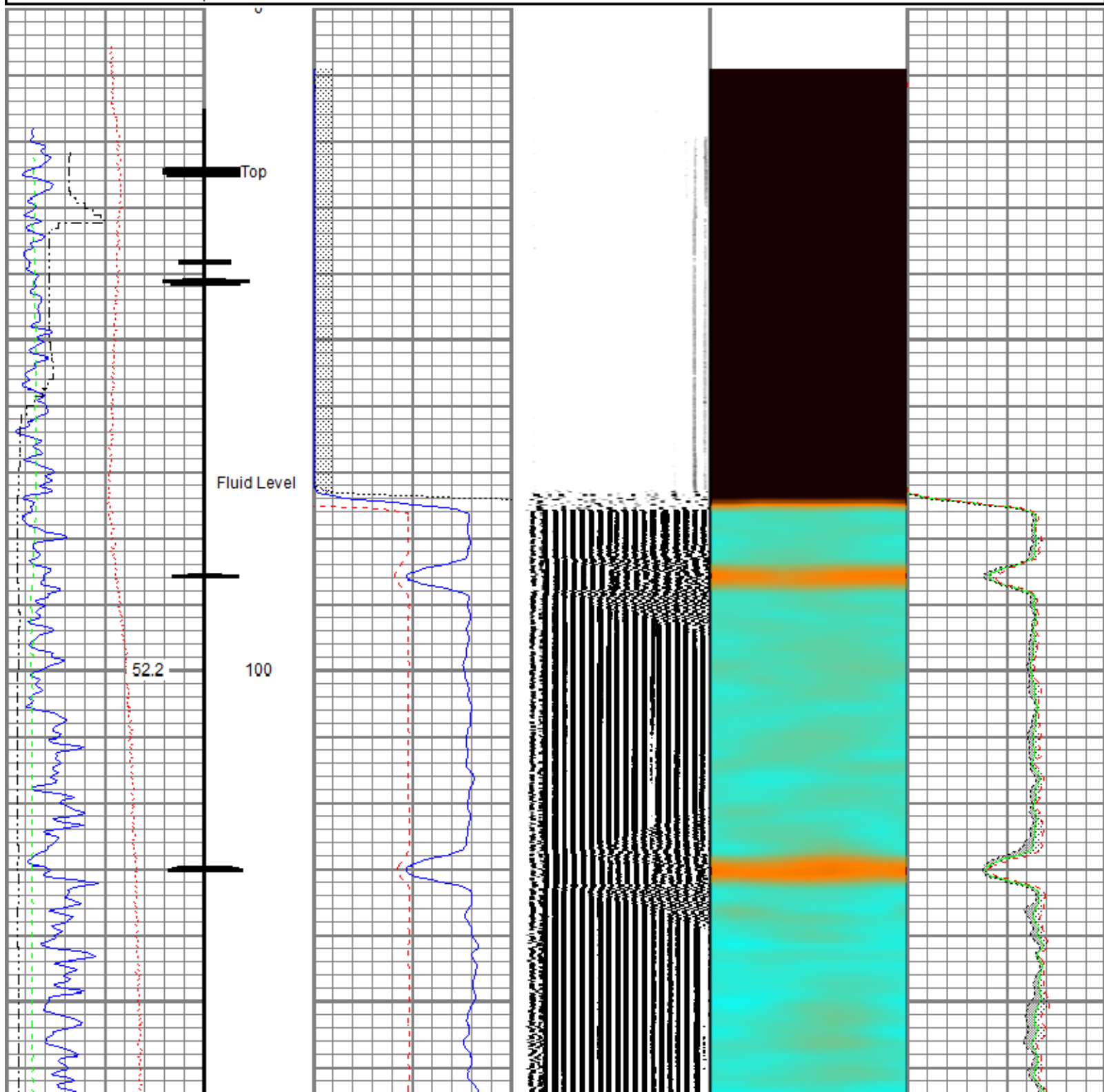
Thank you for choosing Reliance Oilfield Services, LLC!!

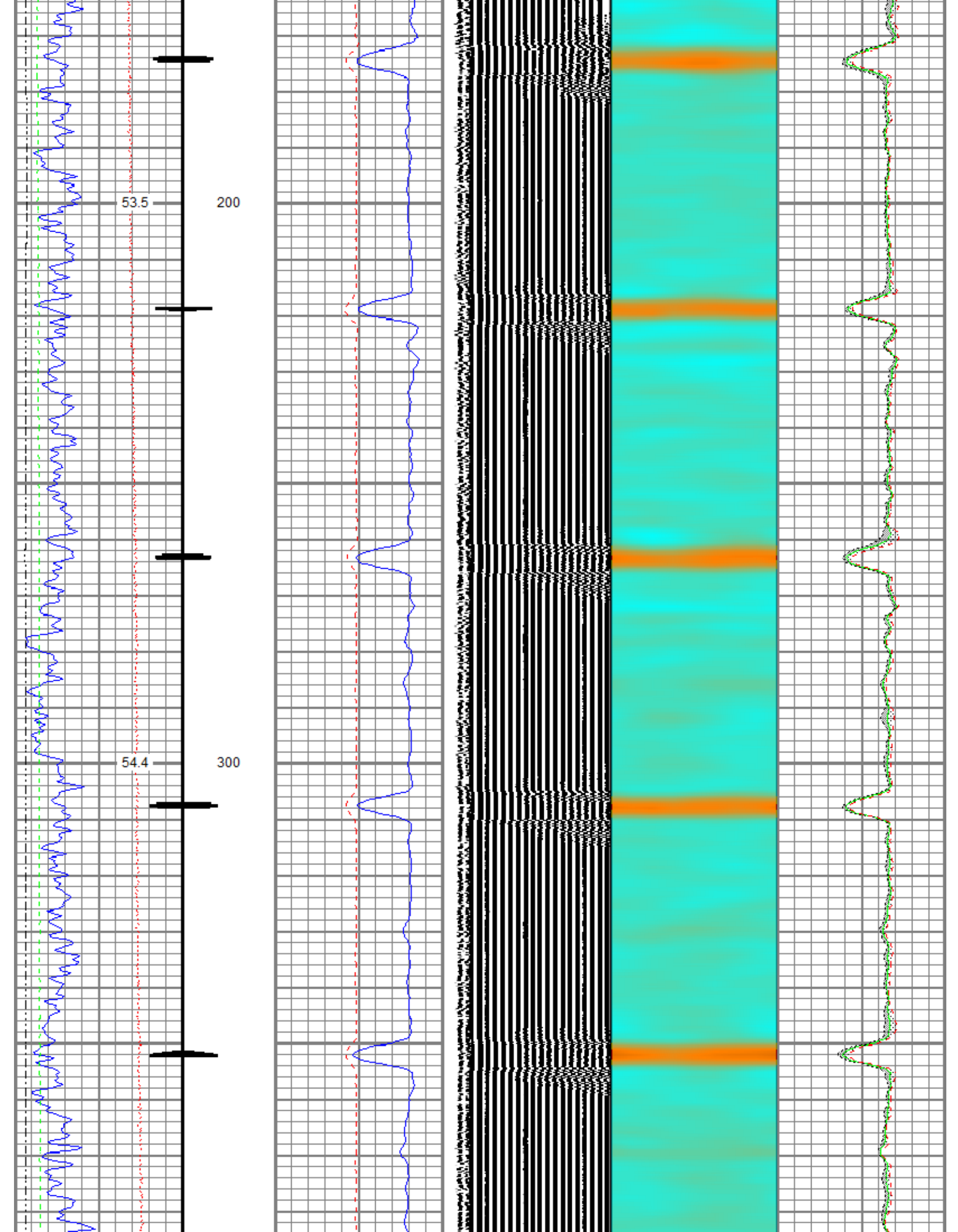
Main Pass

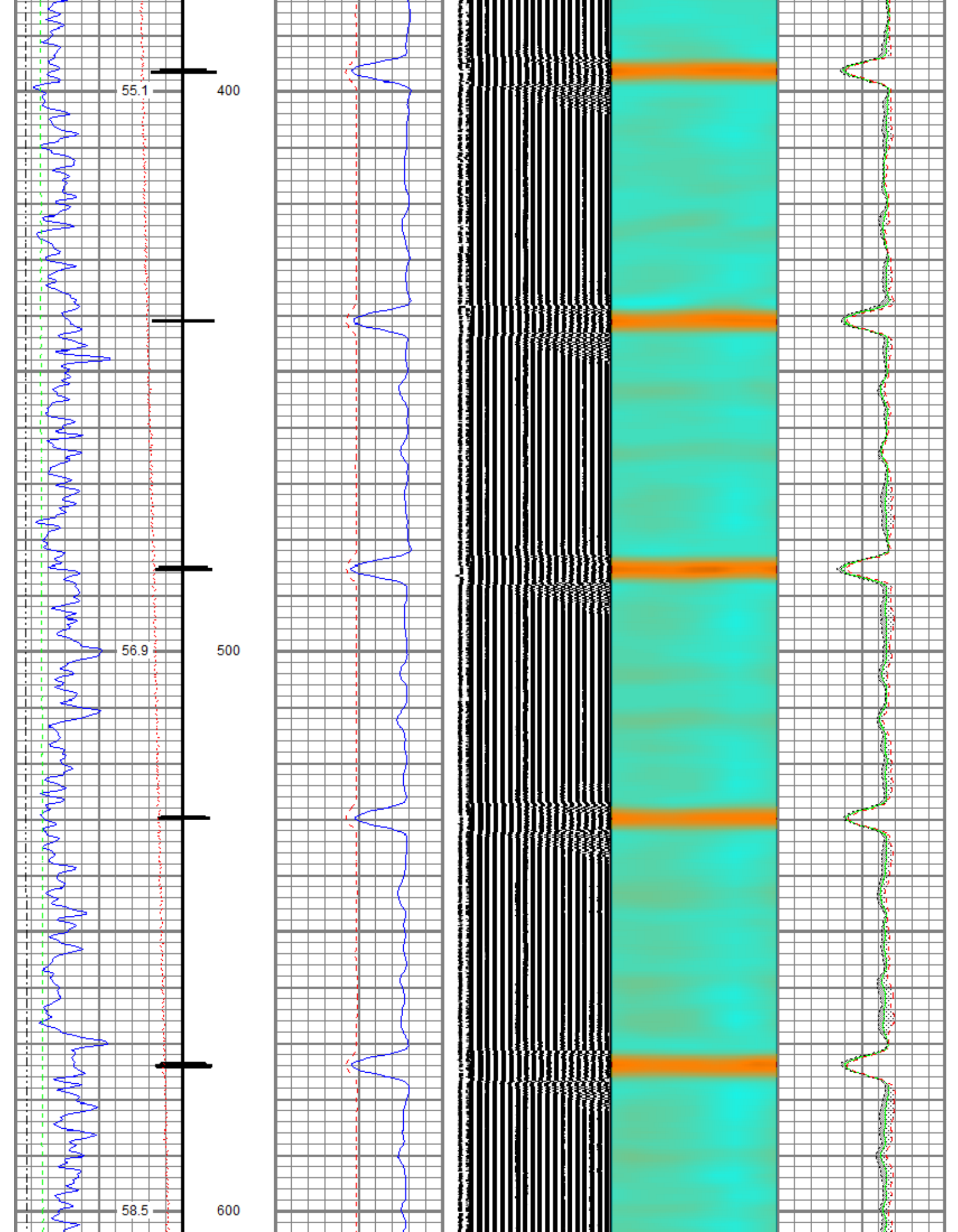


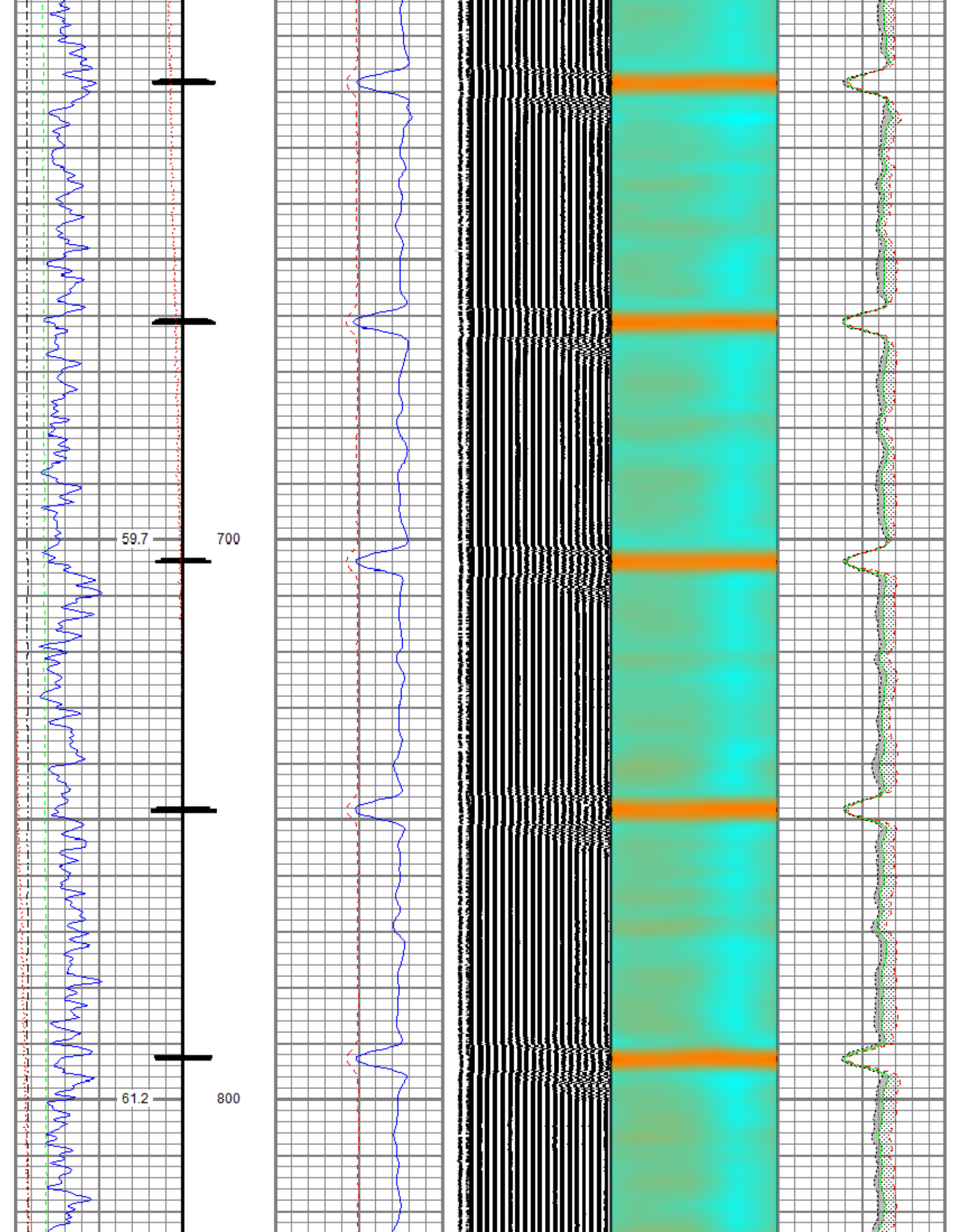
Database File tep_ware sr 512-12_rbl_12-31-17\processed_tep_ware sr 512-12_rbl_12-31-17.db
Dataset Pathname main.1
Presentation Format ros_rbt004_tep
Dataset Creation Mon Jan 01 16:05:02 2018
Charted by Depth in Feet scaled 1:240

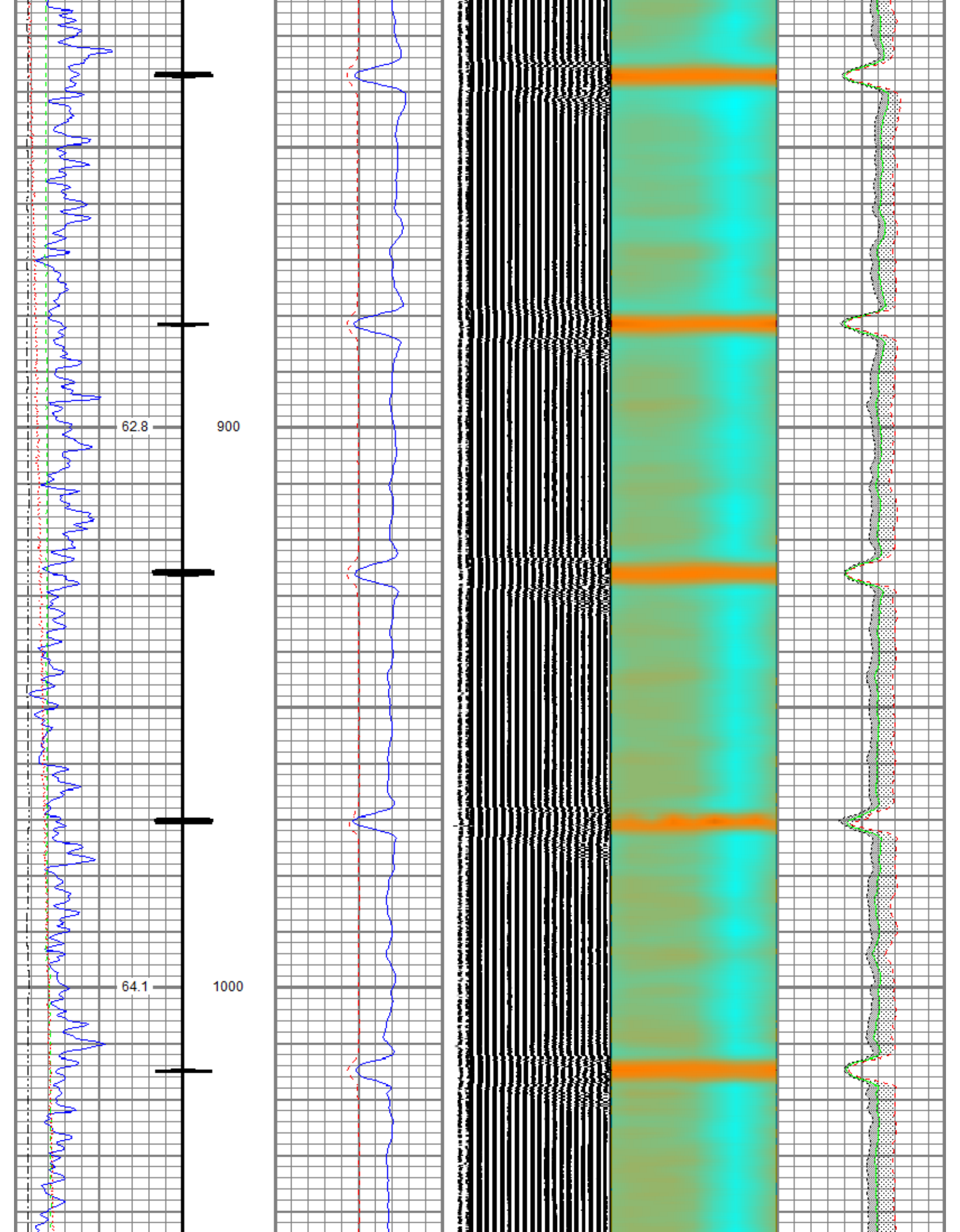
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 150
(GAPI) 200		3' Amplitude x 5	200	10	110	Minimum Amplitude
Casing Collar Locator		(mV) 20				0
Line Speed		3' Travel Time				Maximum Amplitude
-150 (ft/min) 150		300 (usec) 200				0
Line Tension (lb) 2000						150
Temperature (degF) 20						

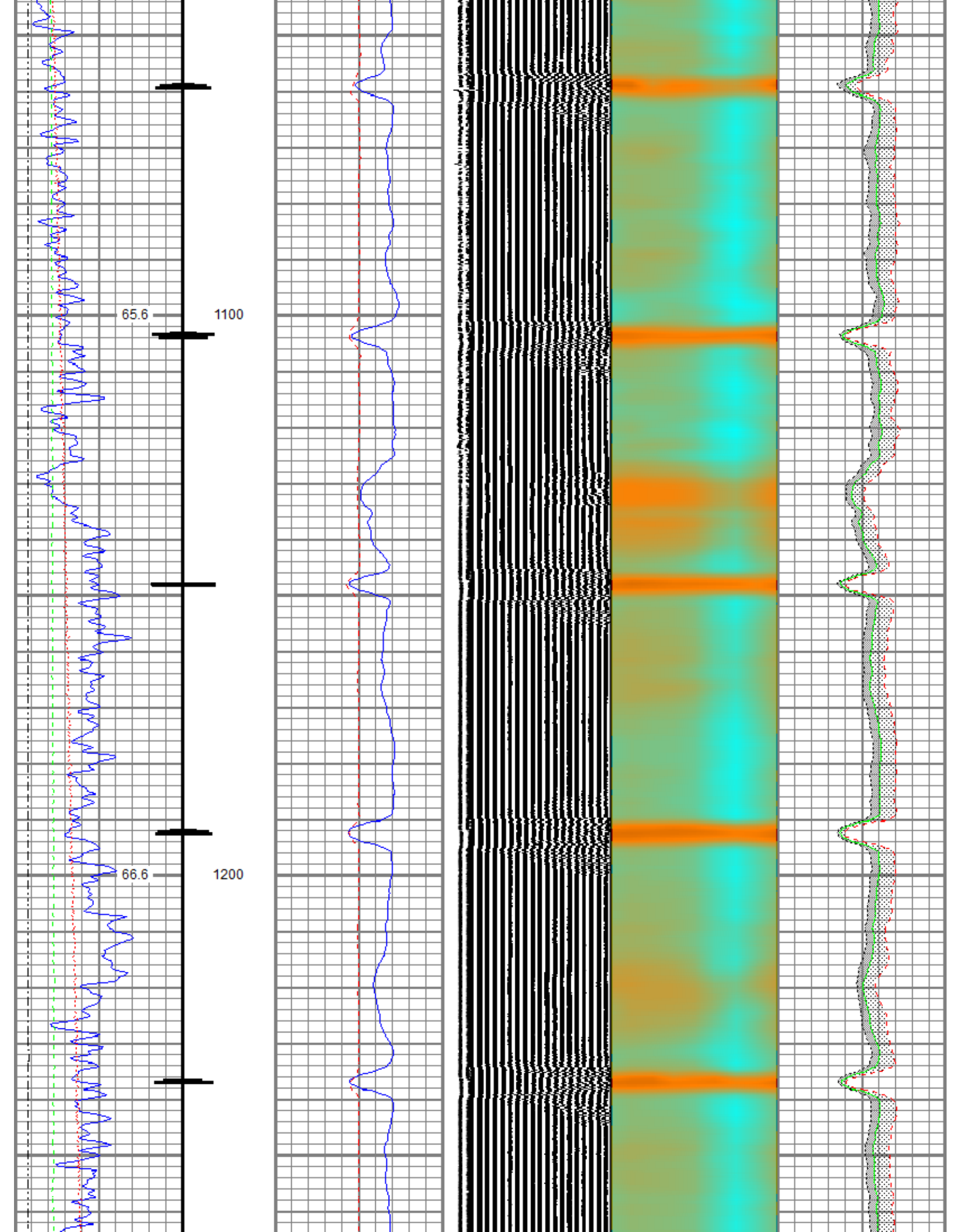


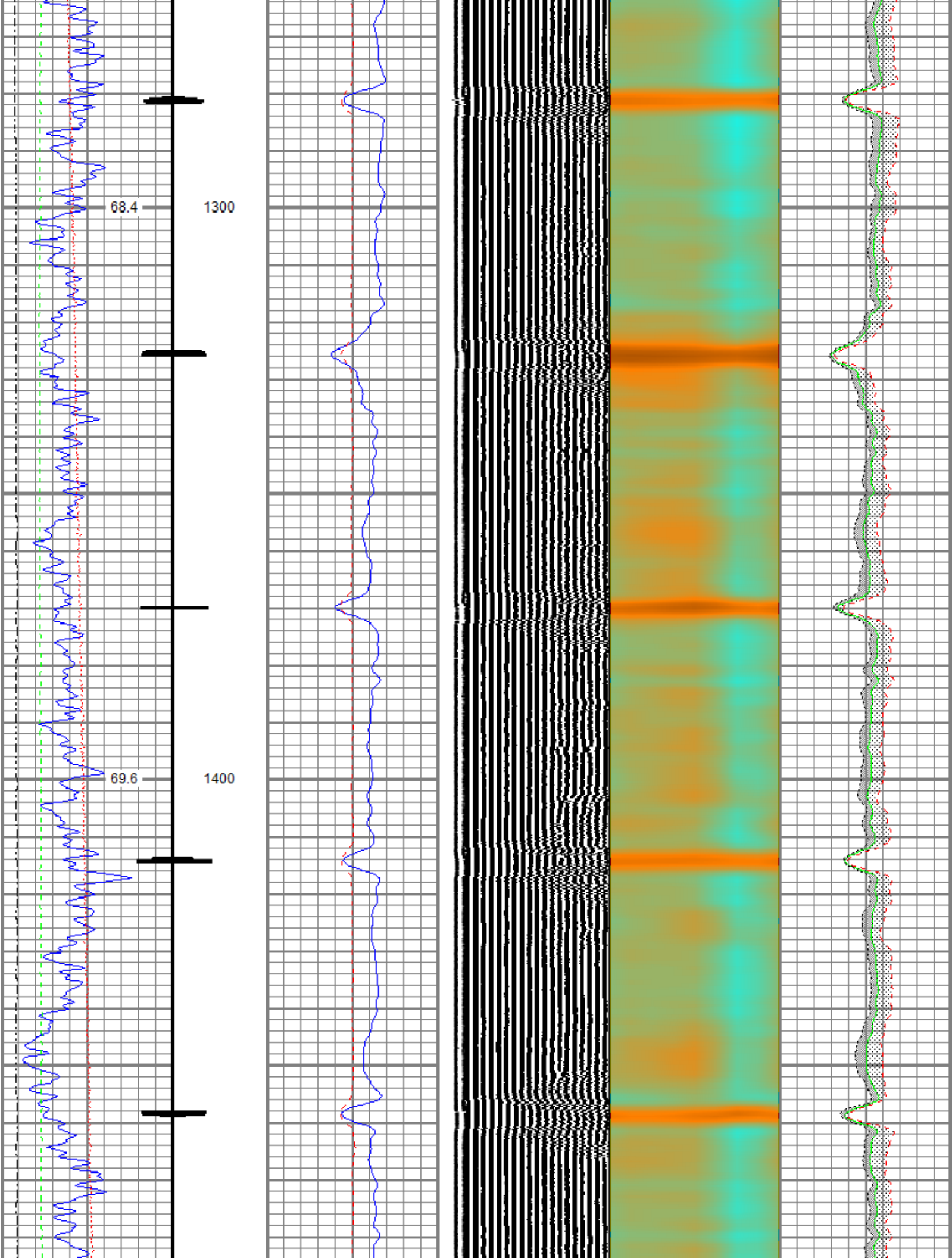


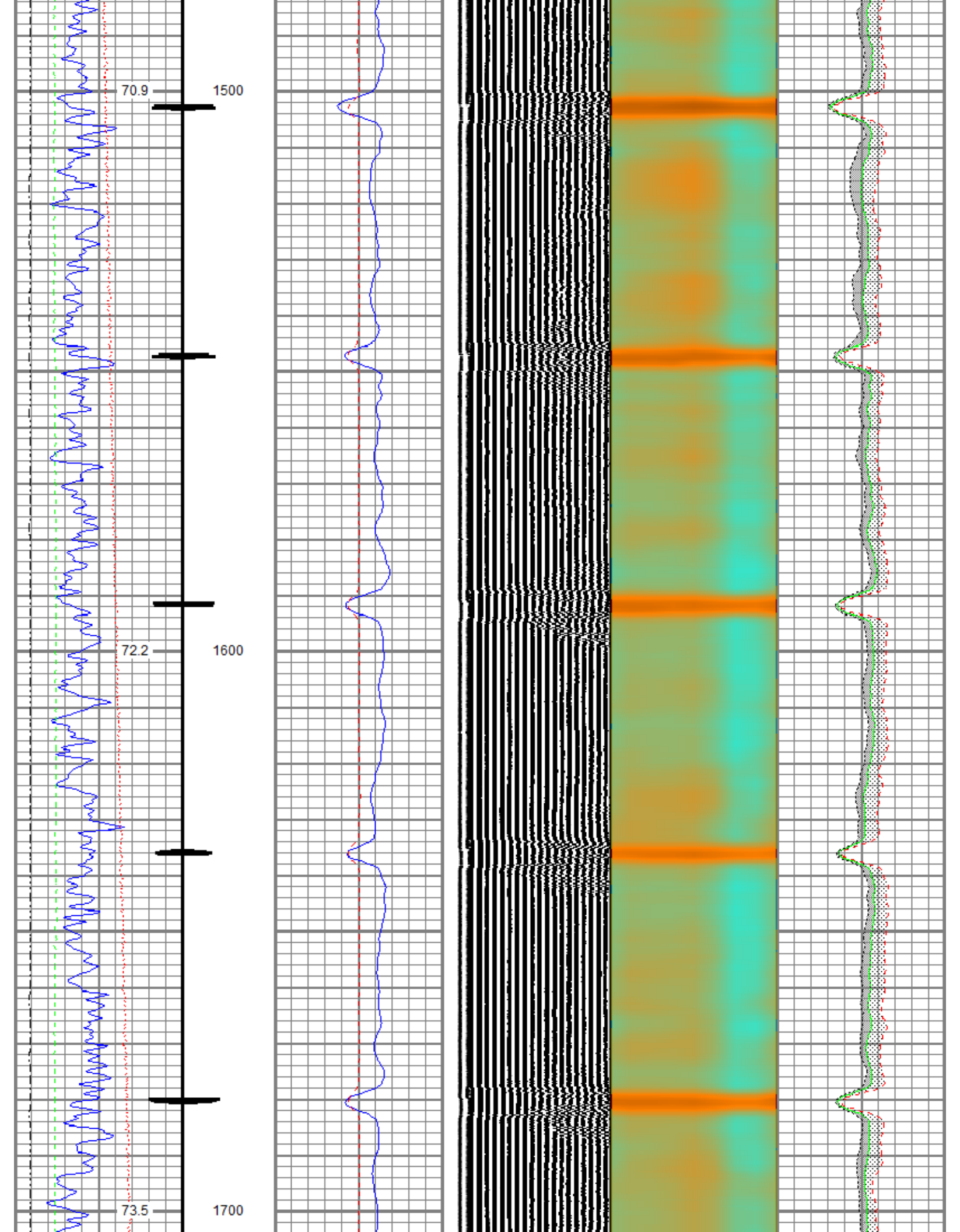


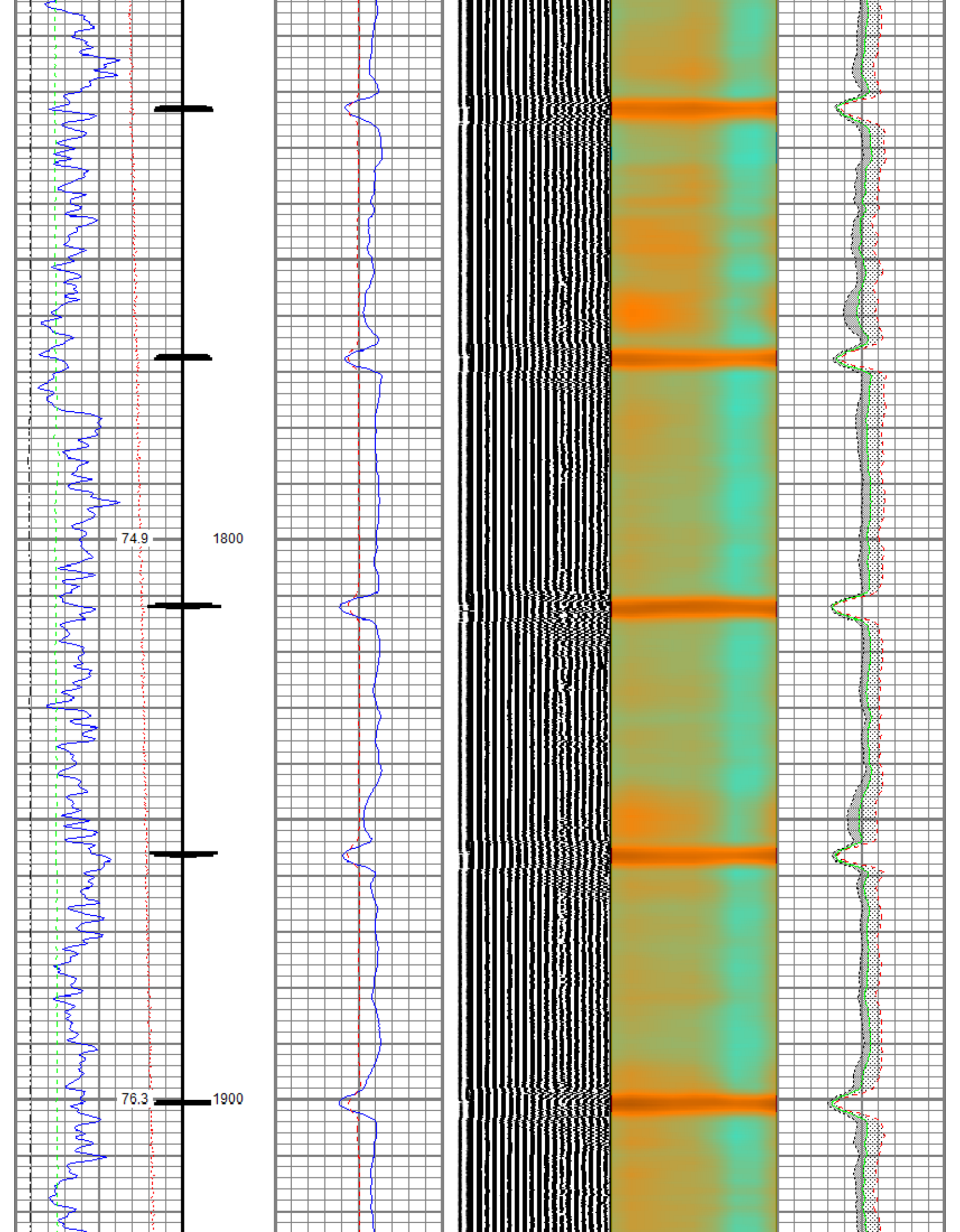


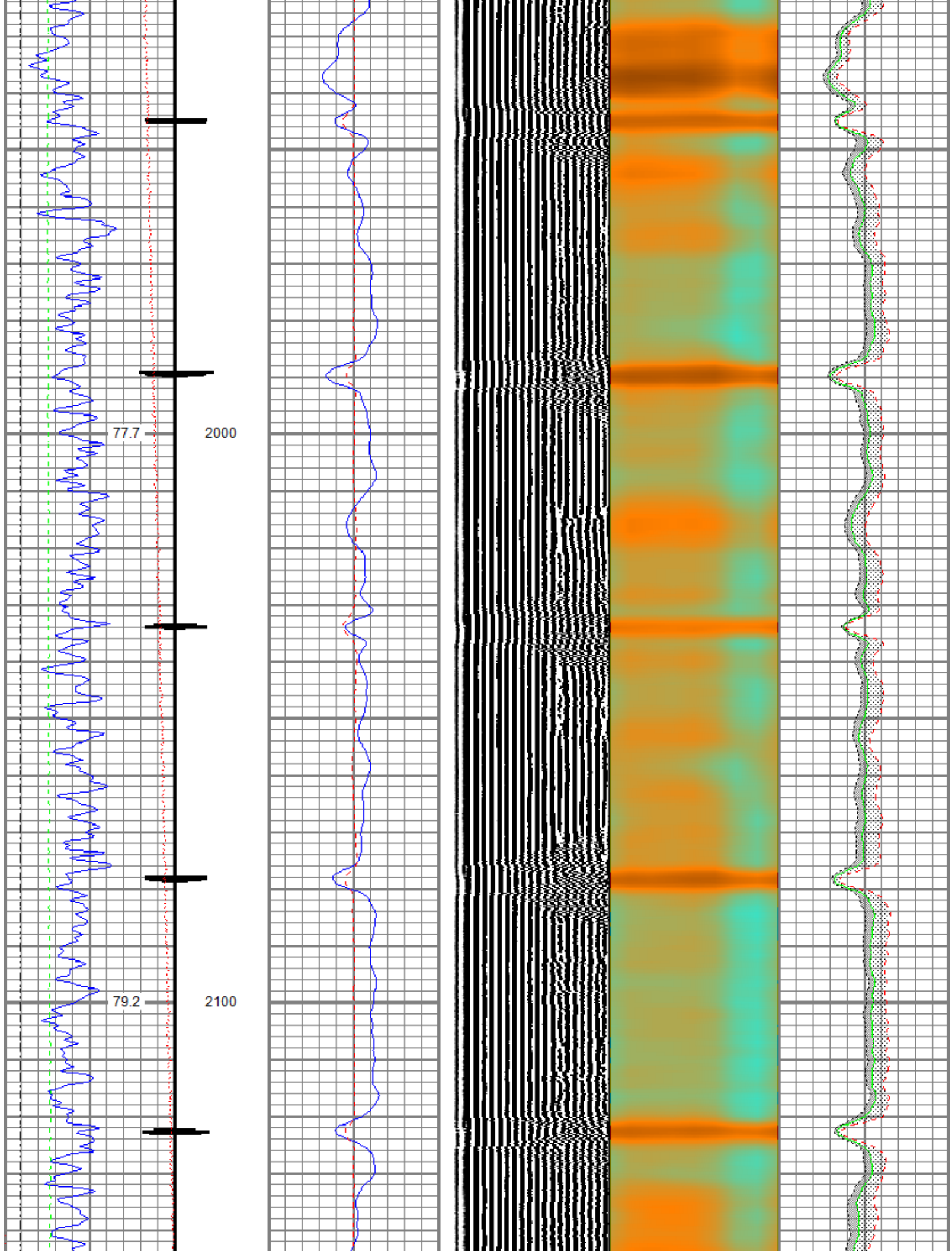


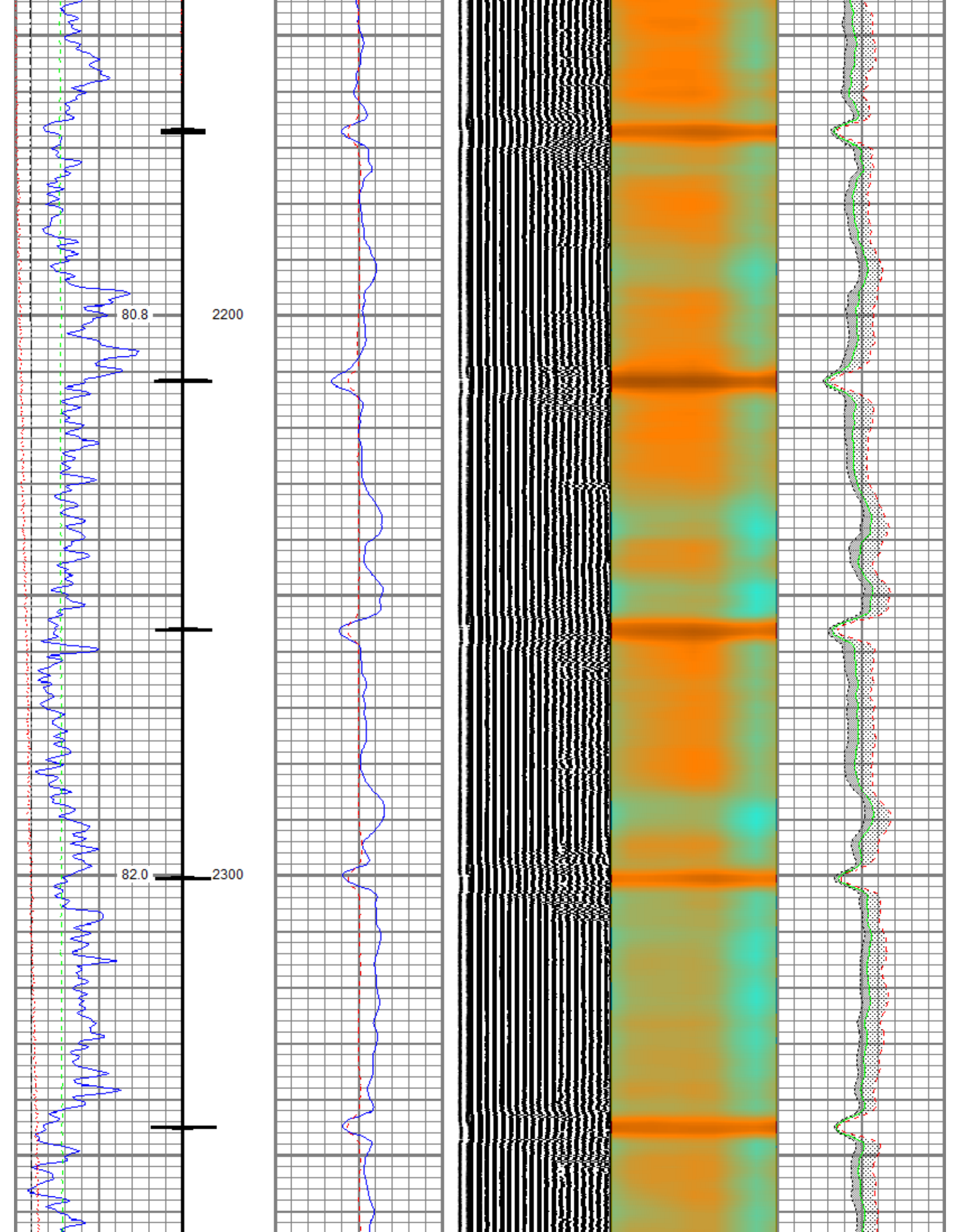


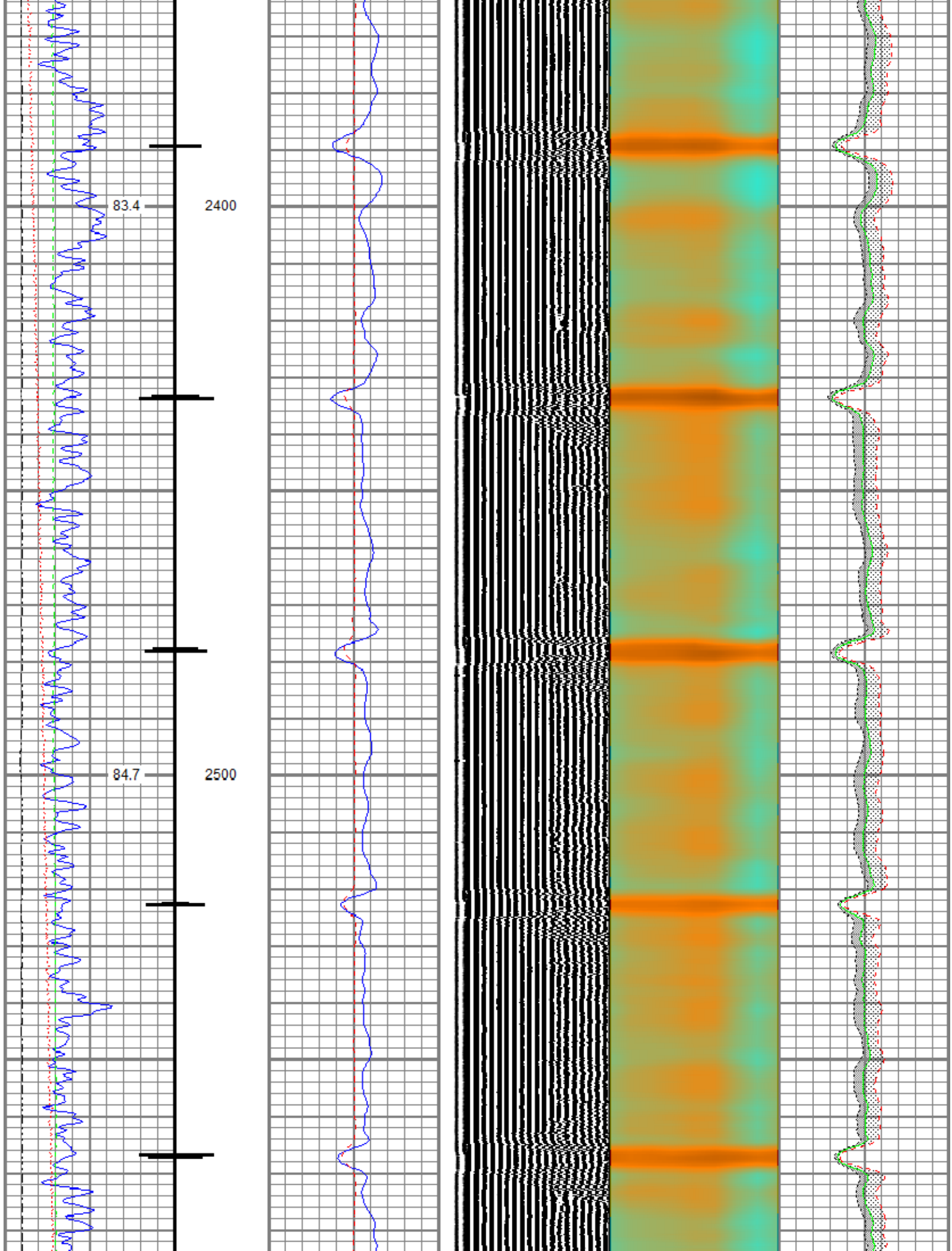


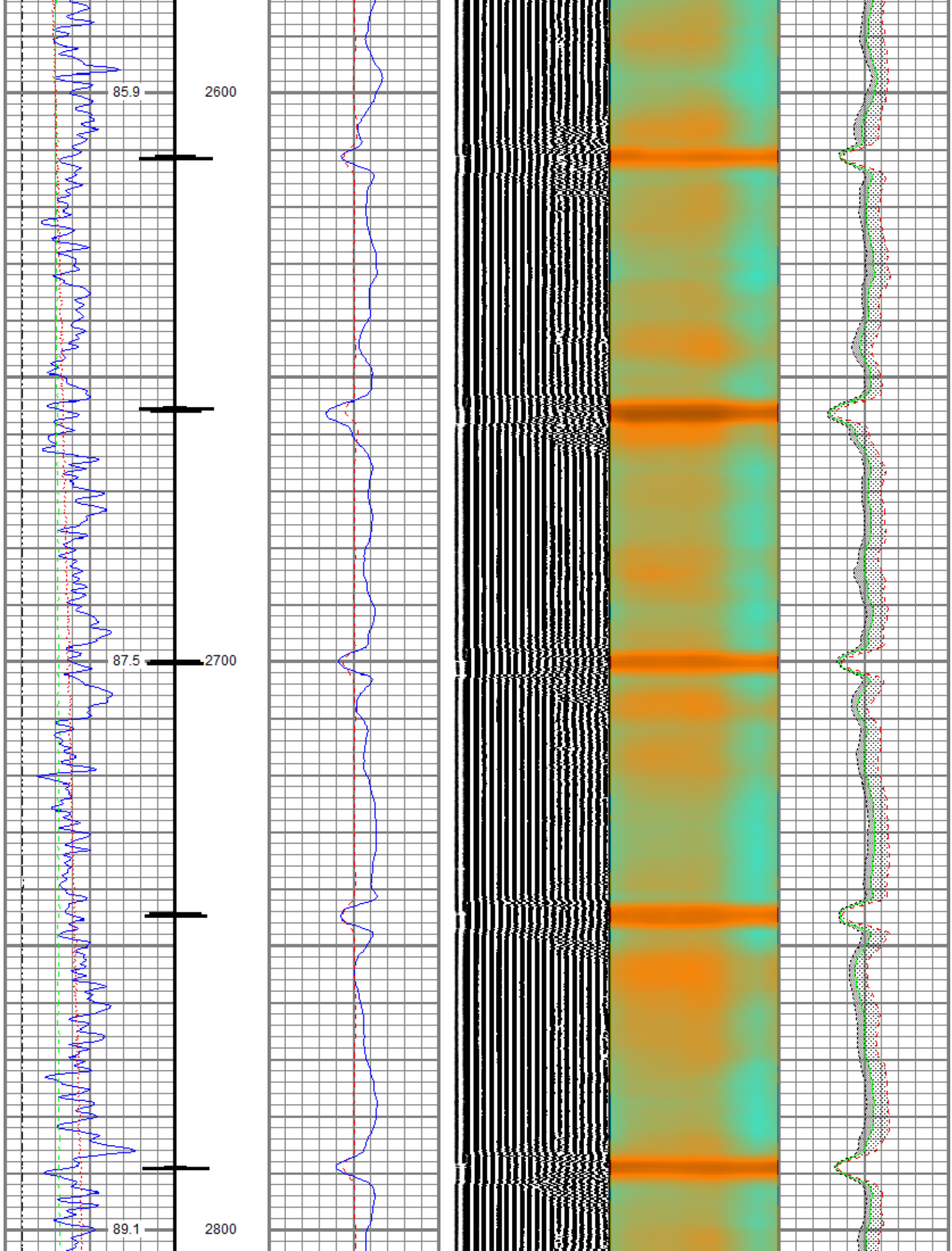


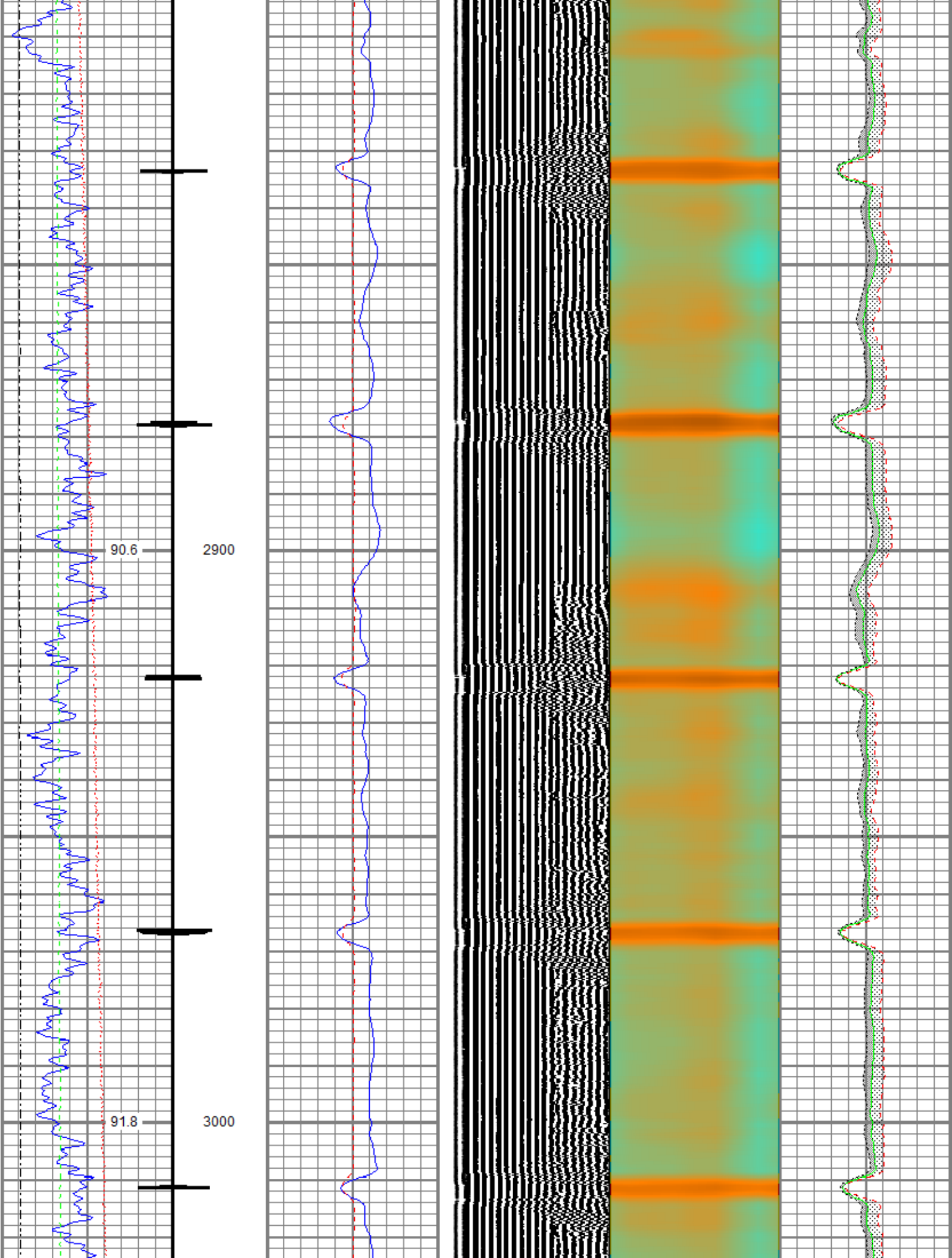


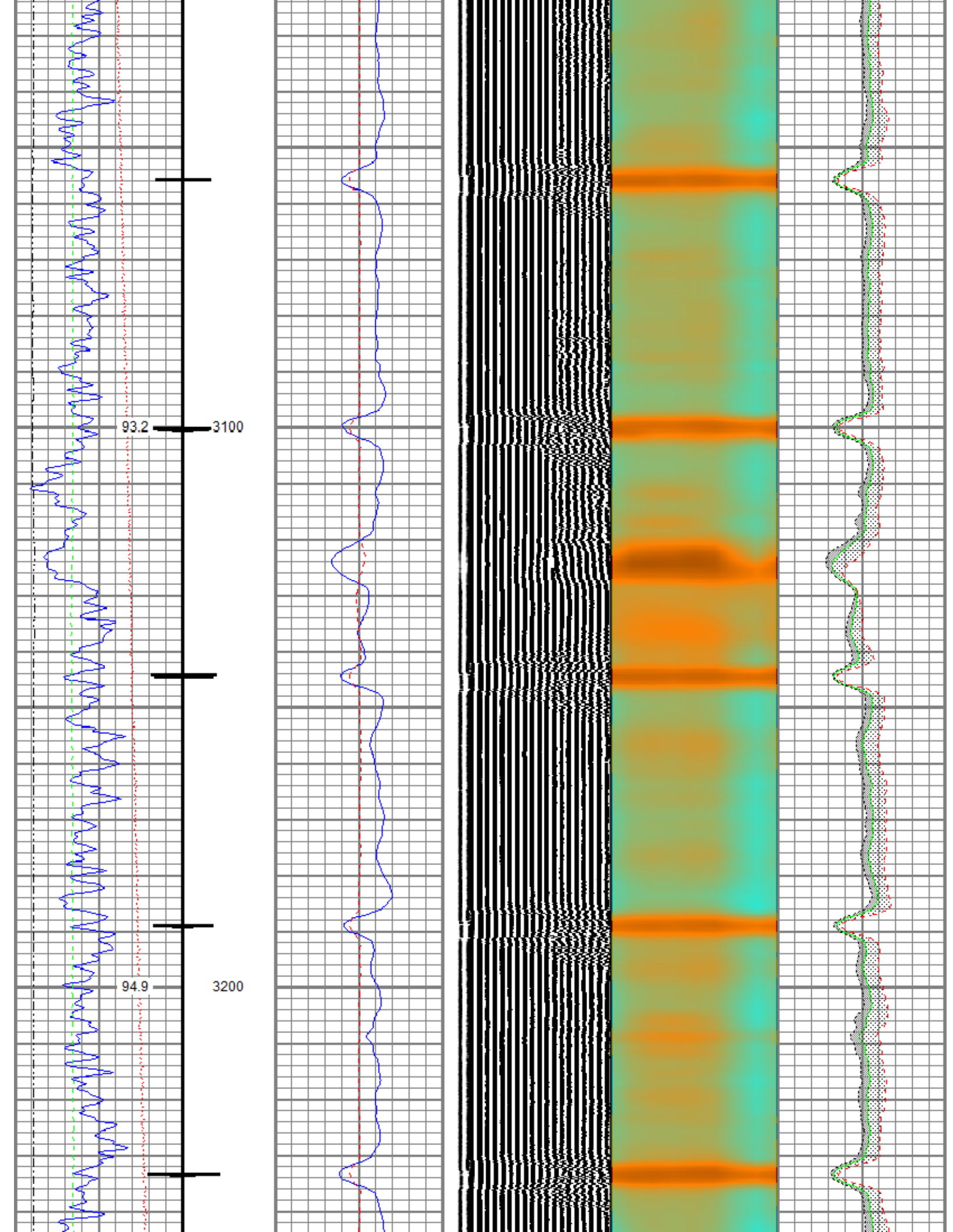


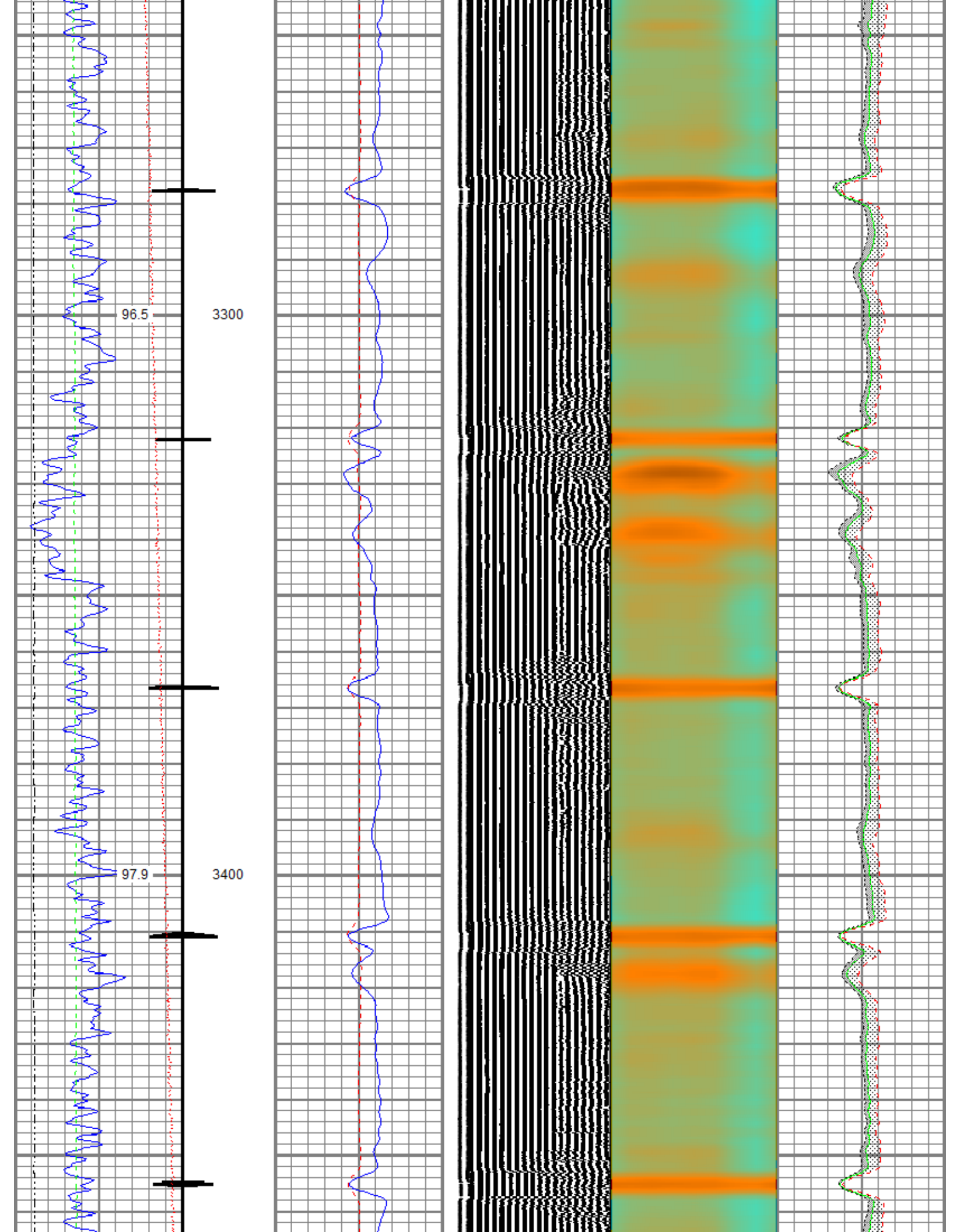


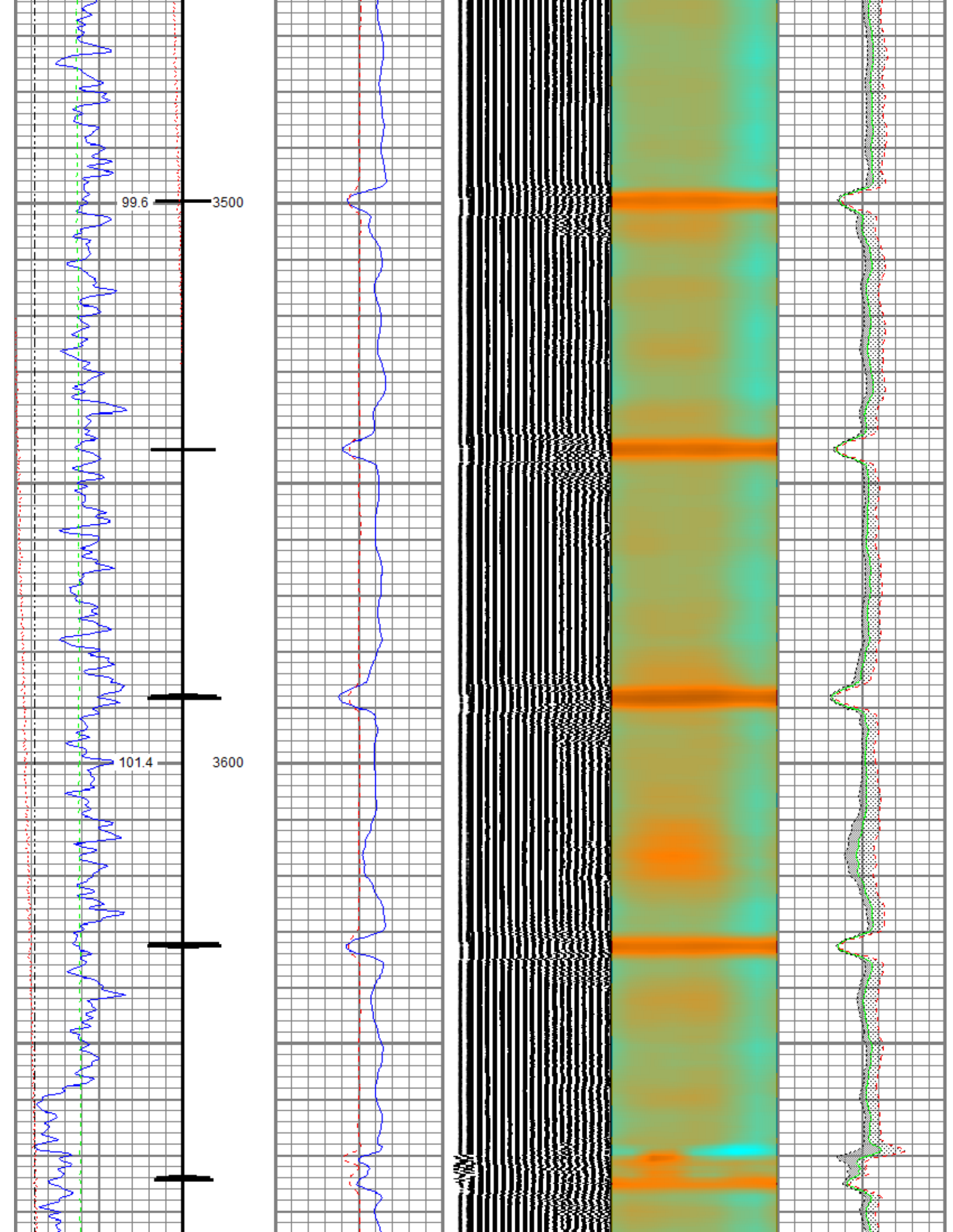


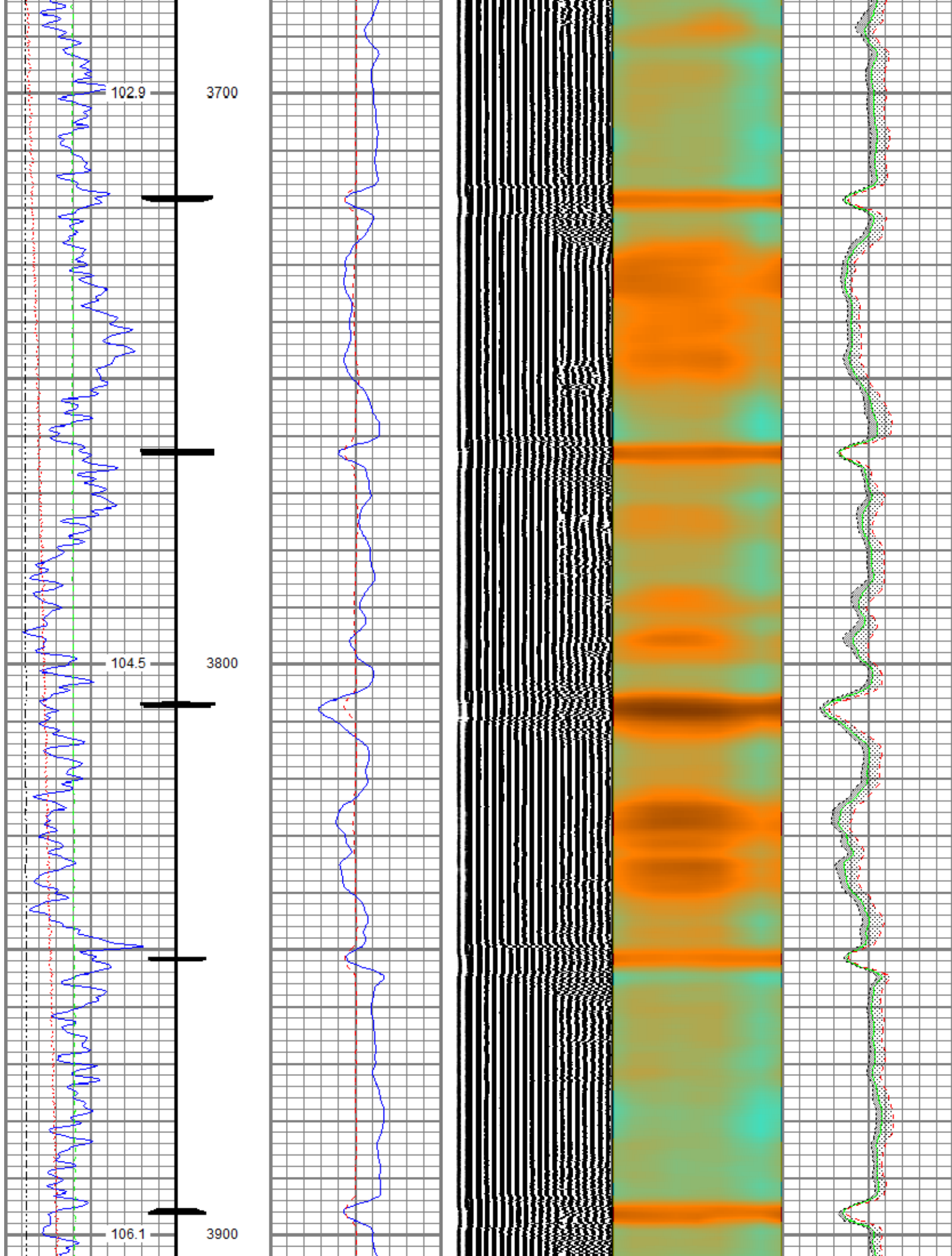


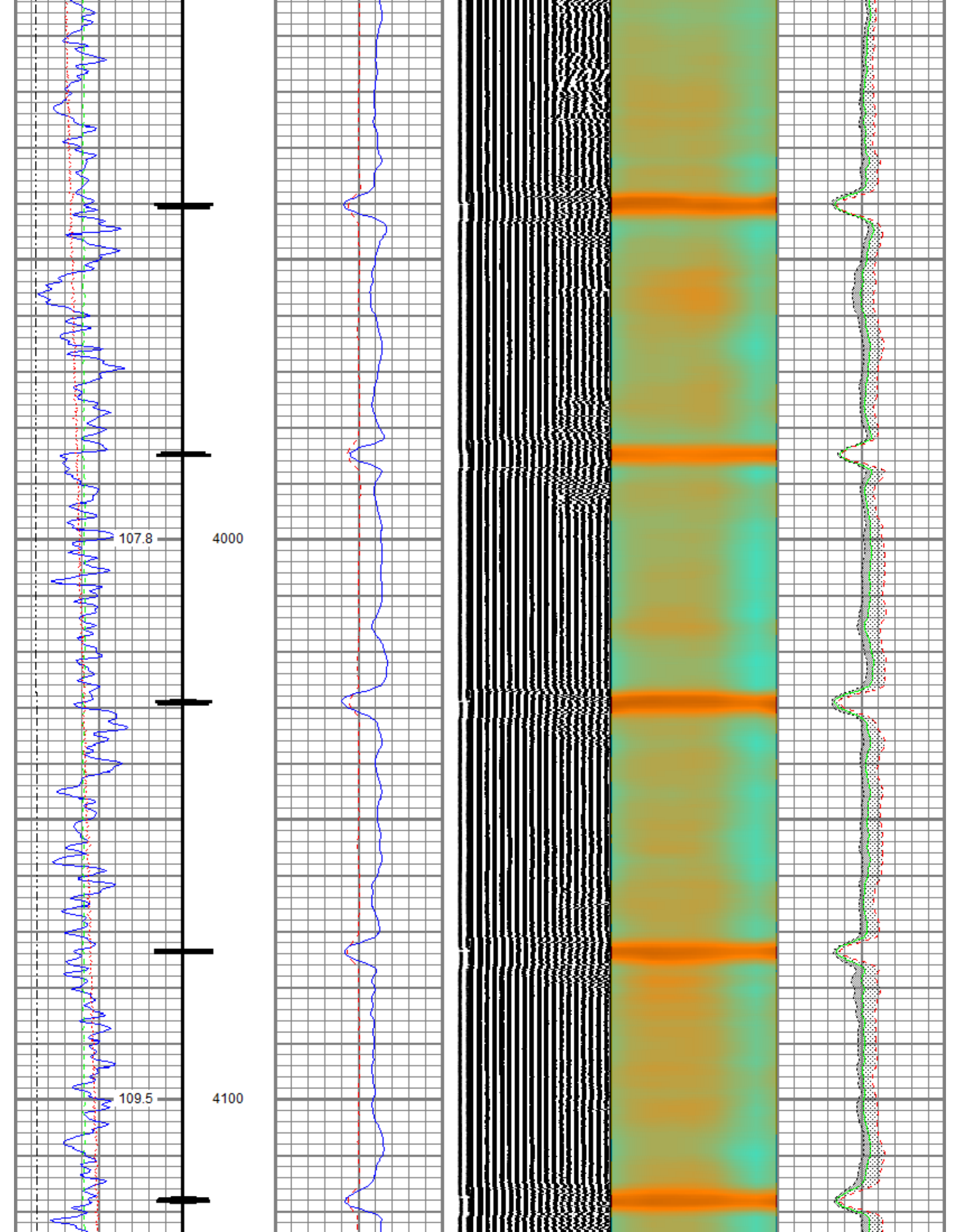


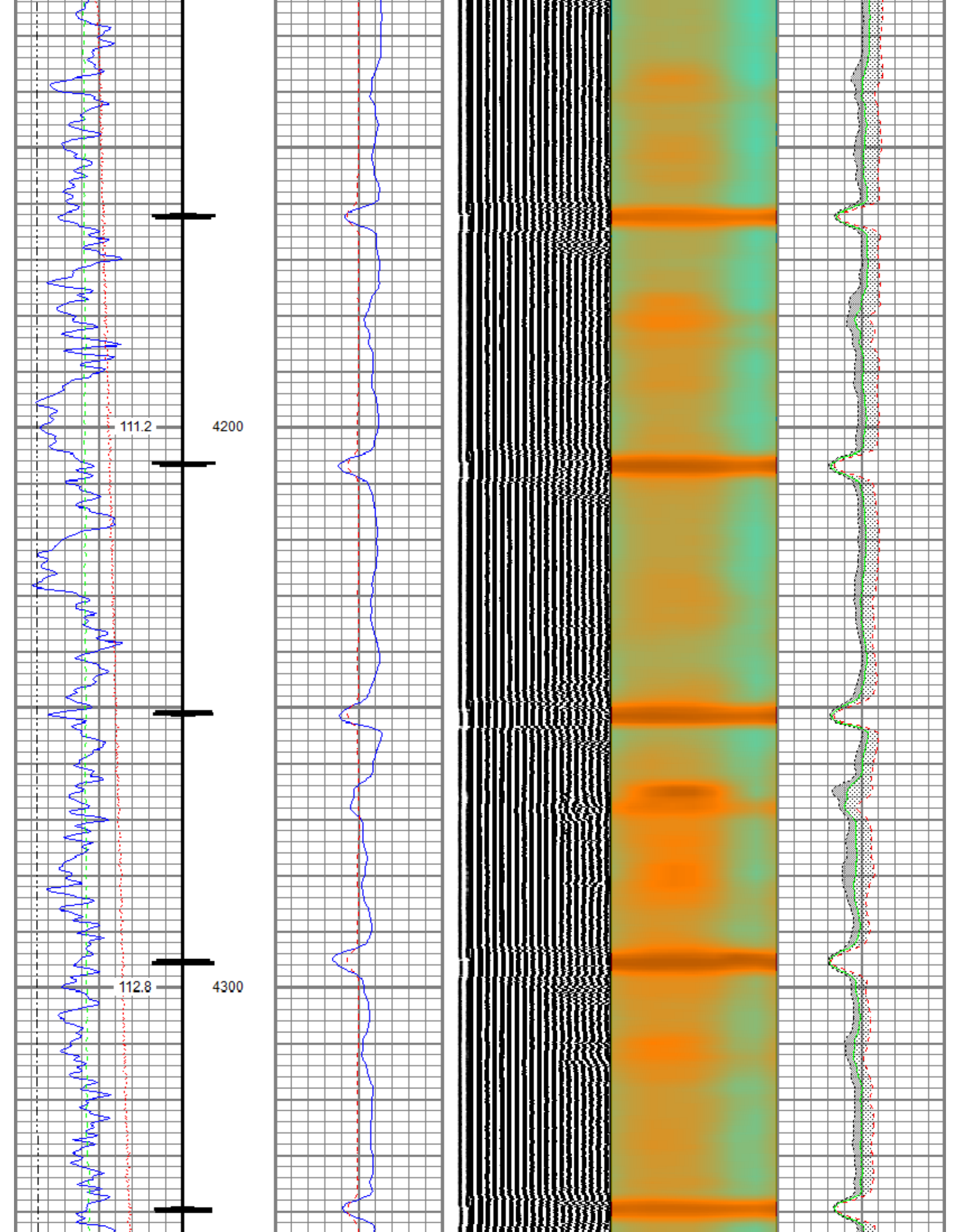


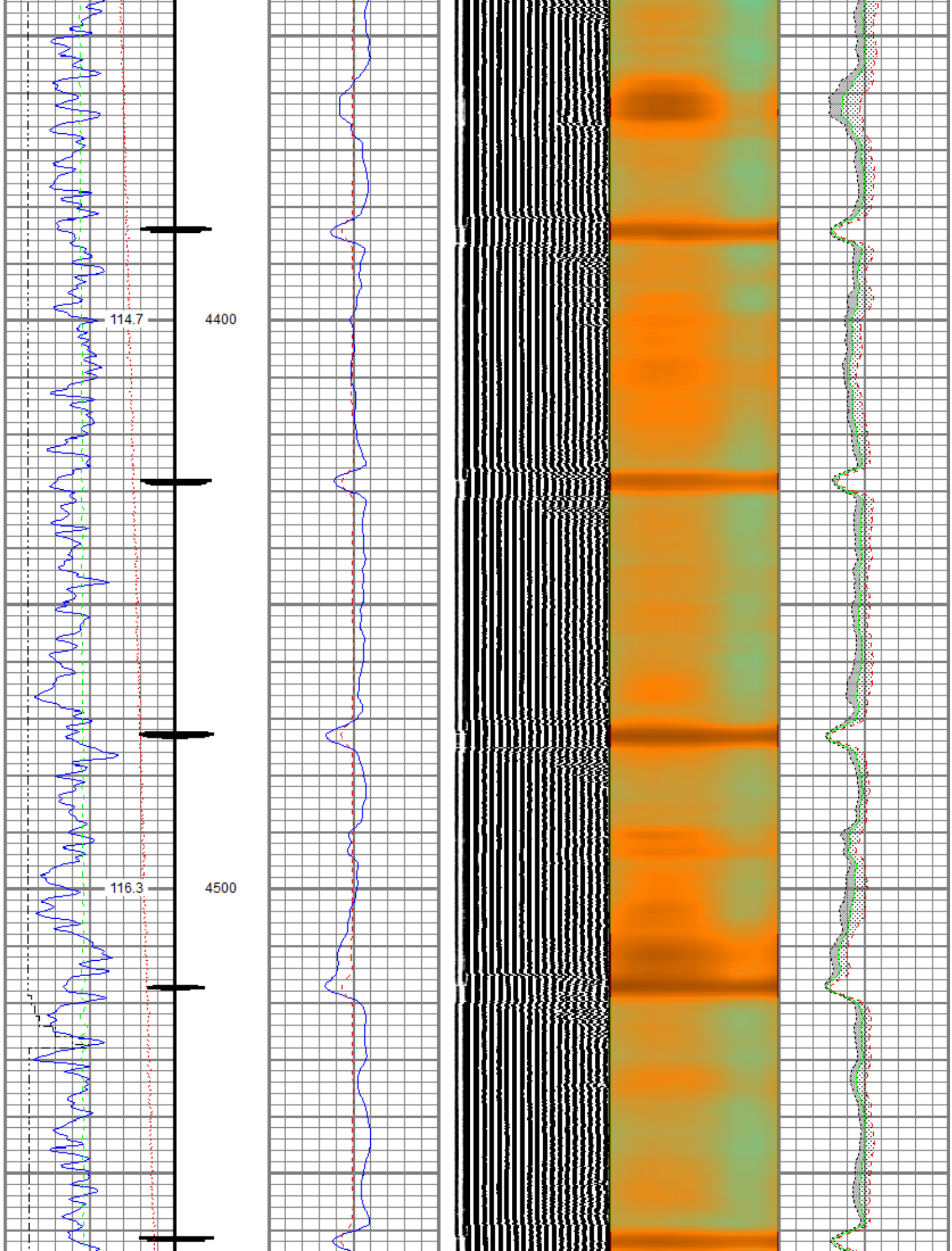


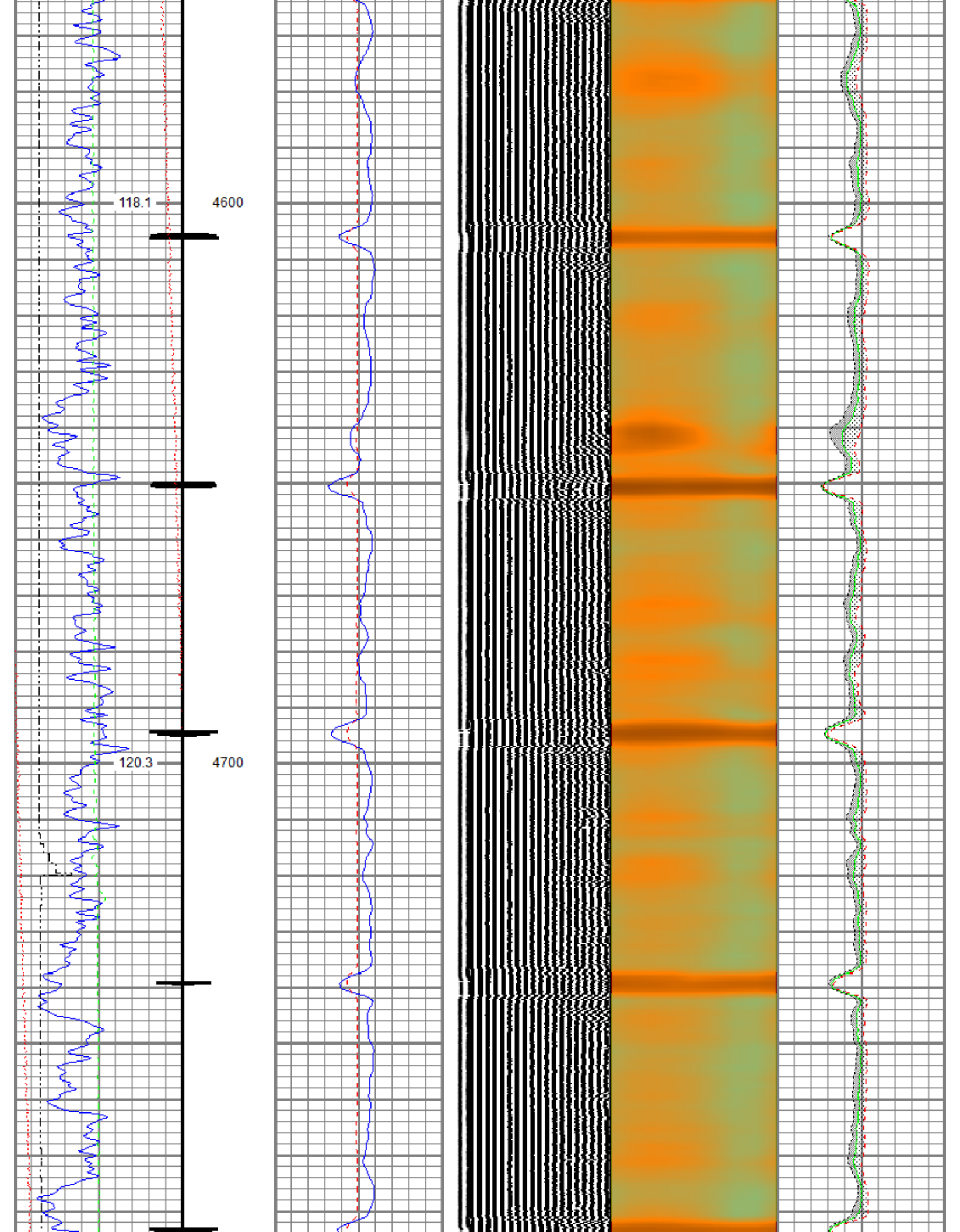


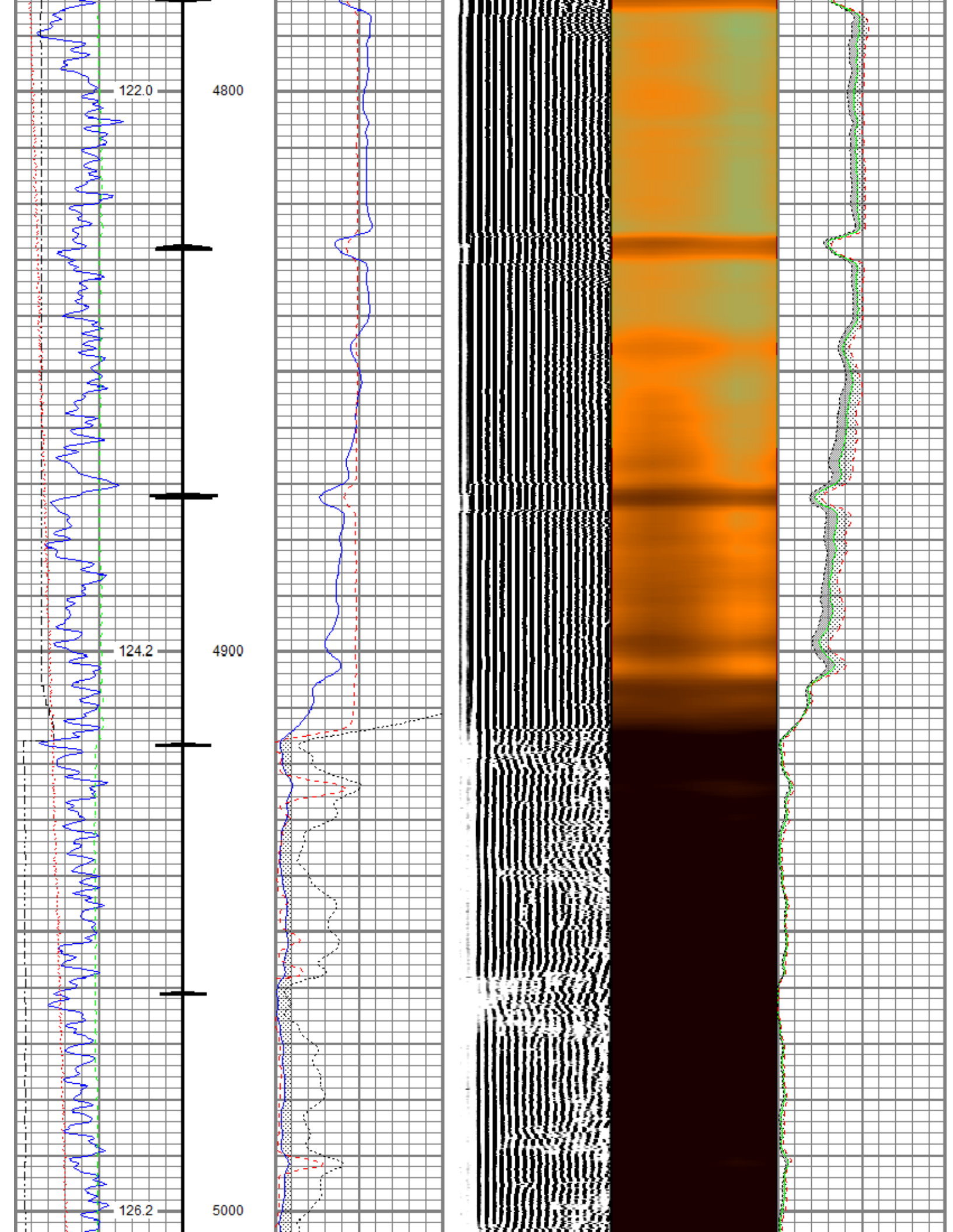


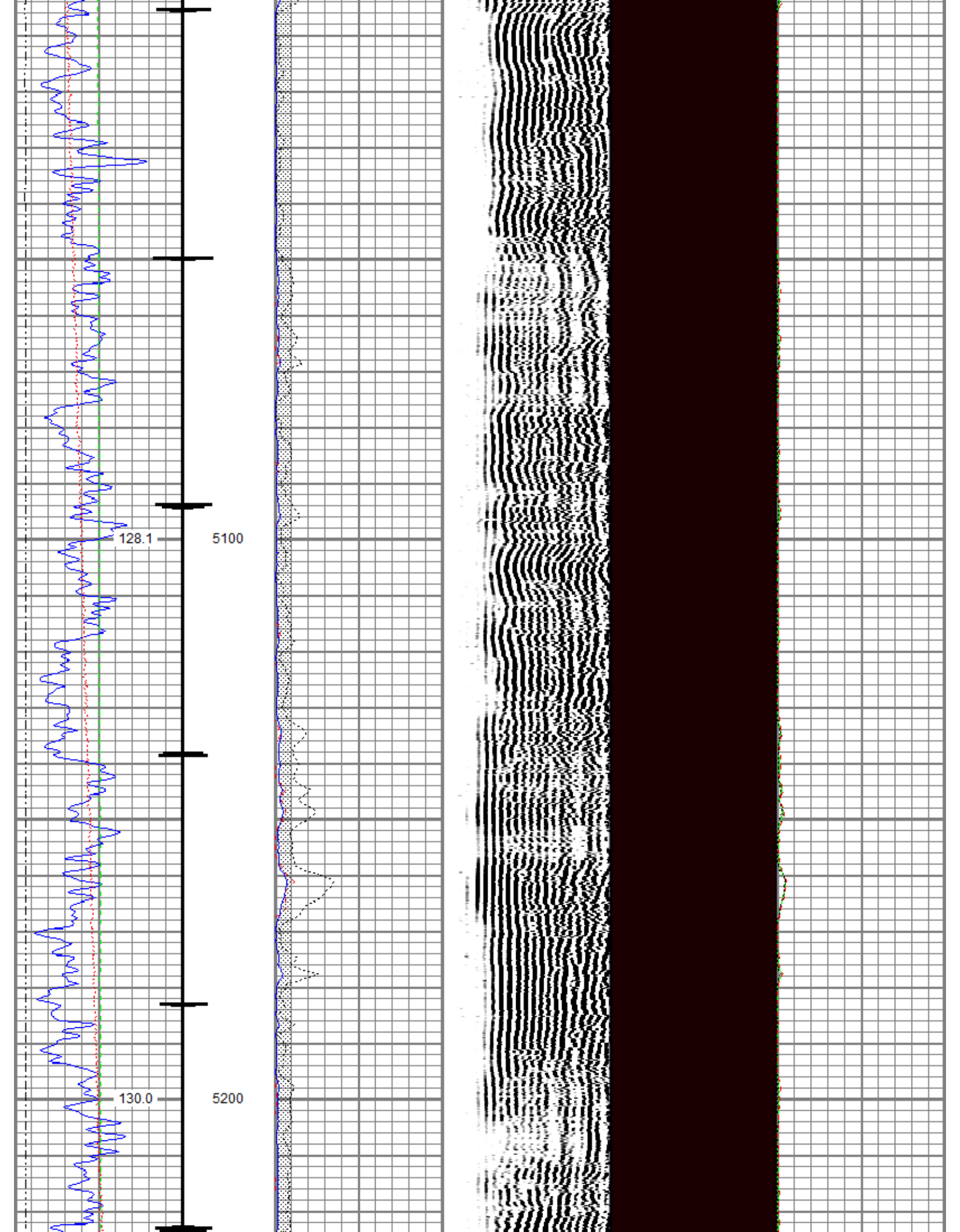


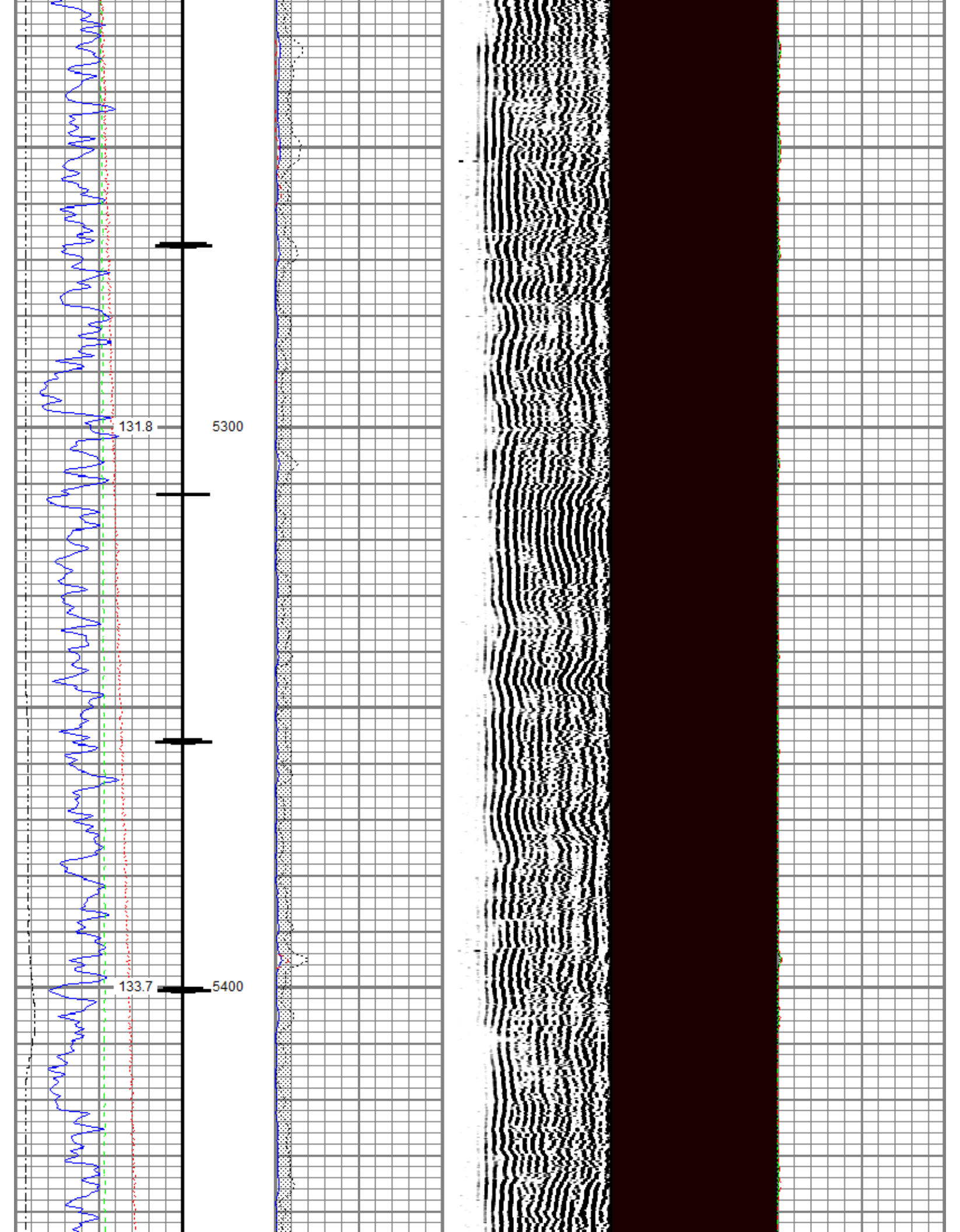


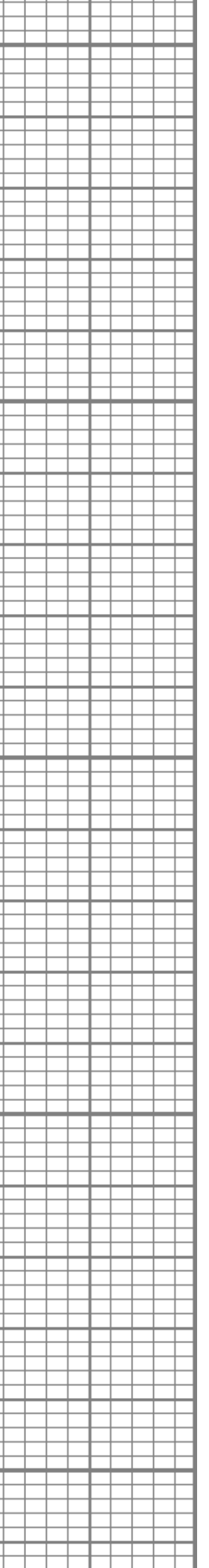
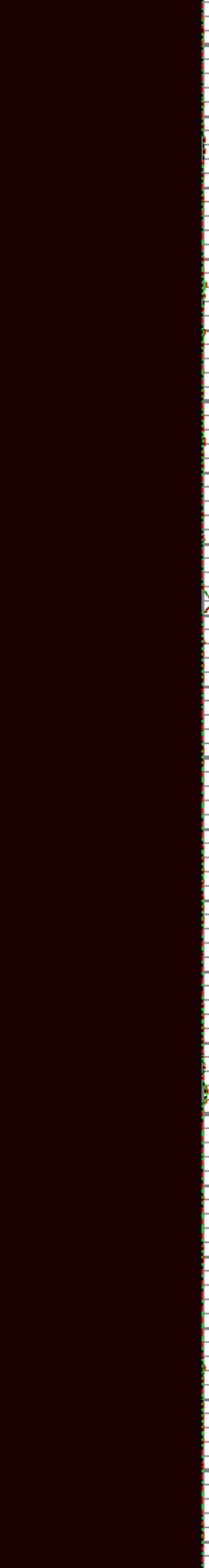
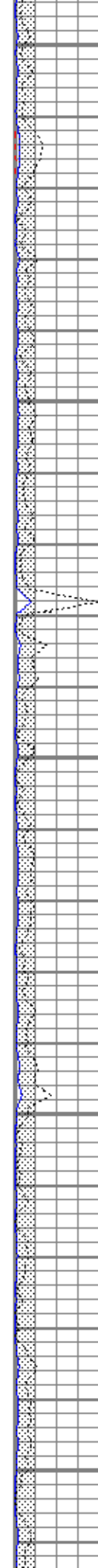
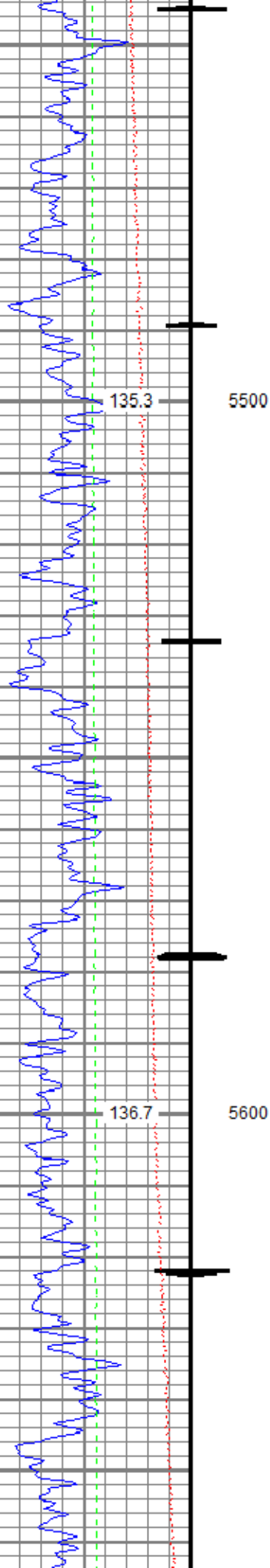


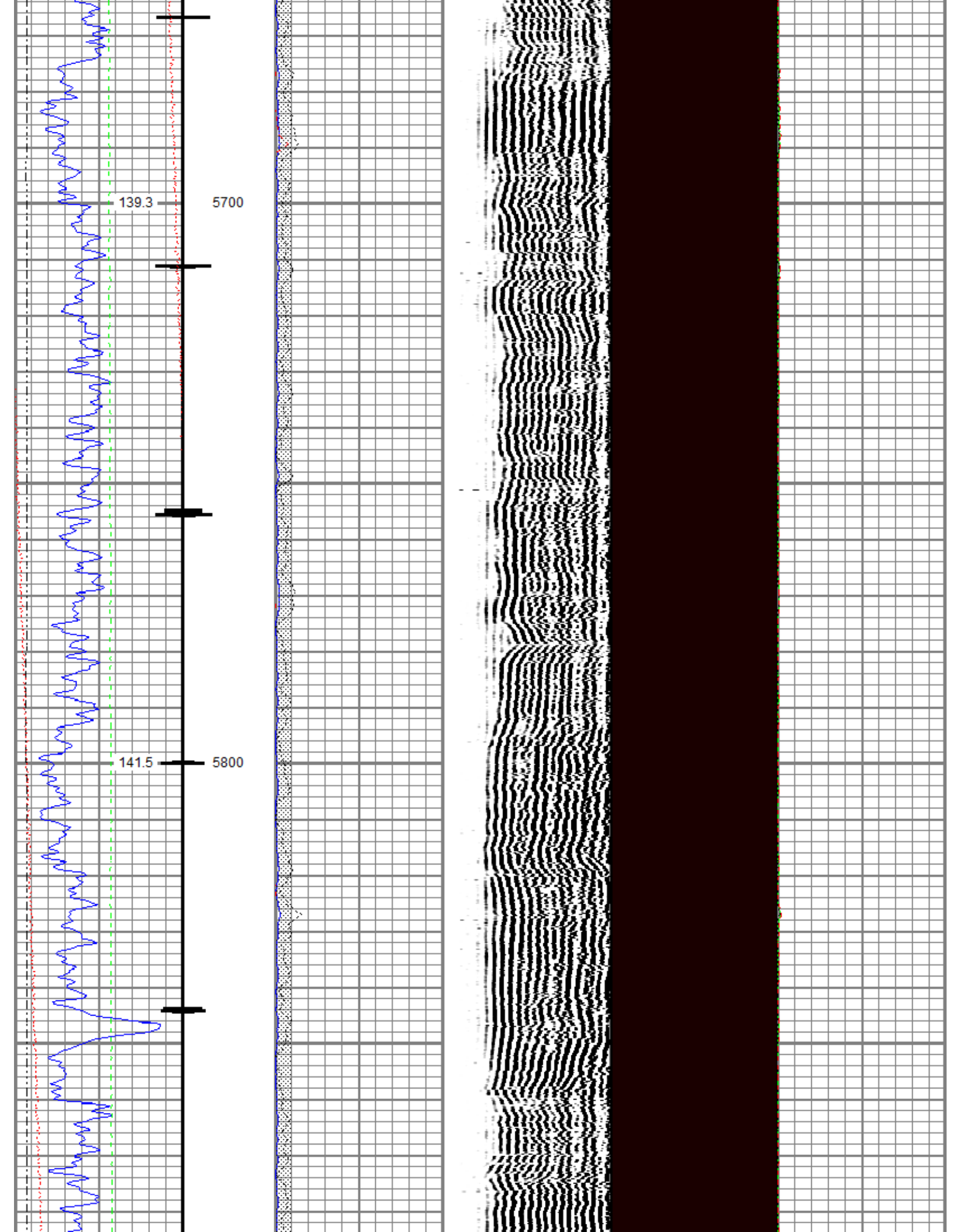


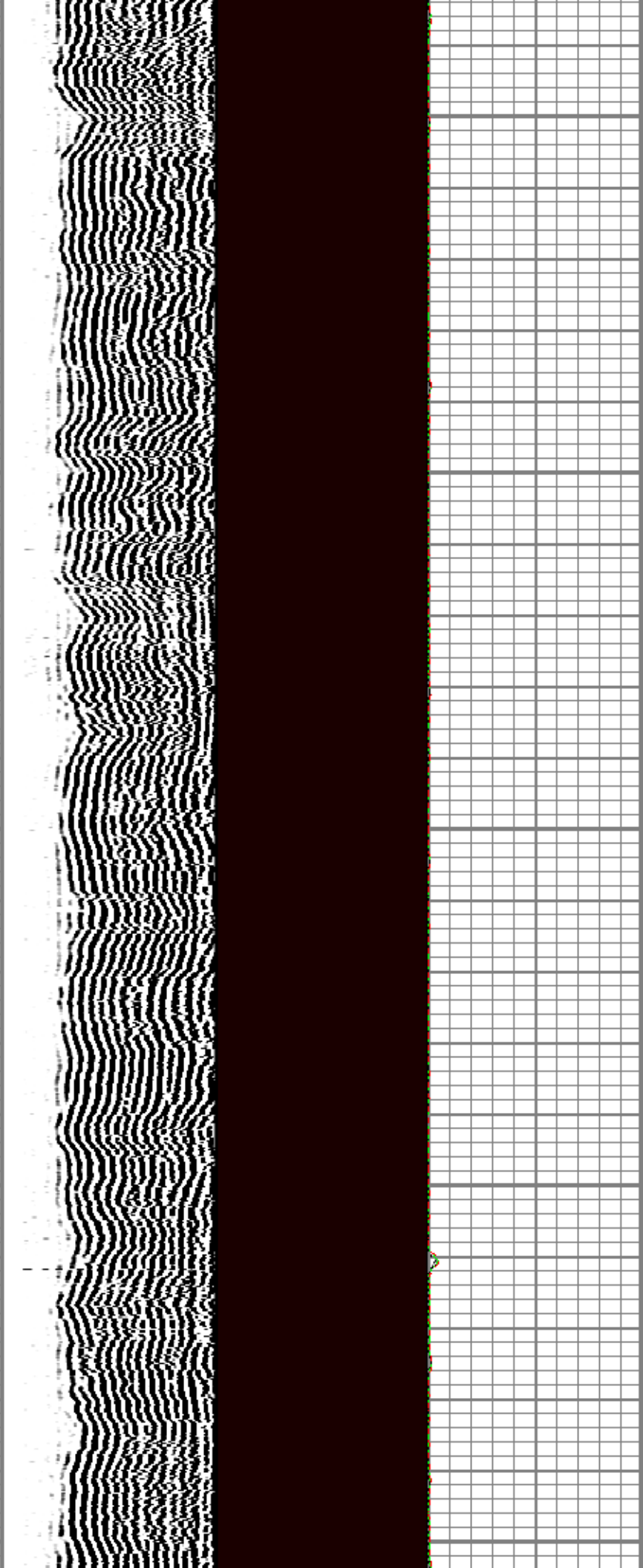
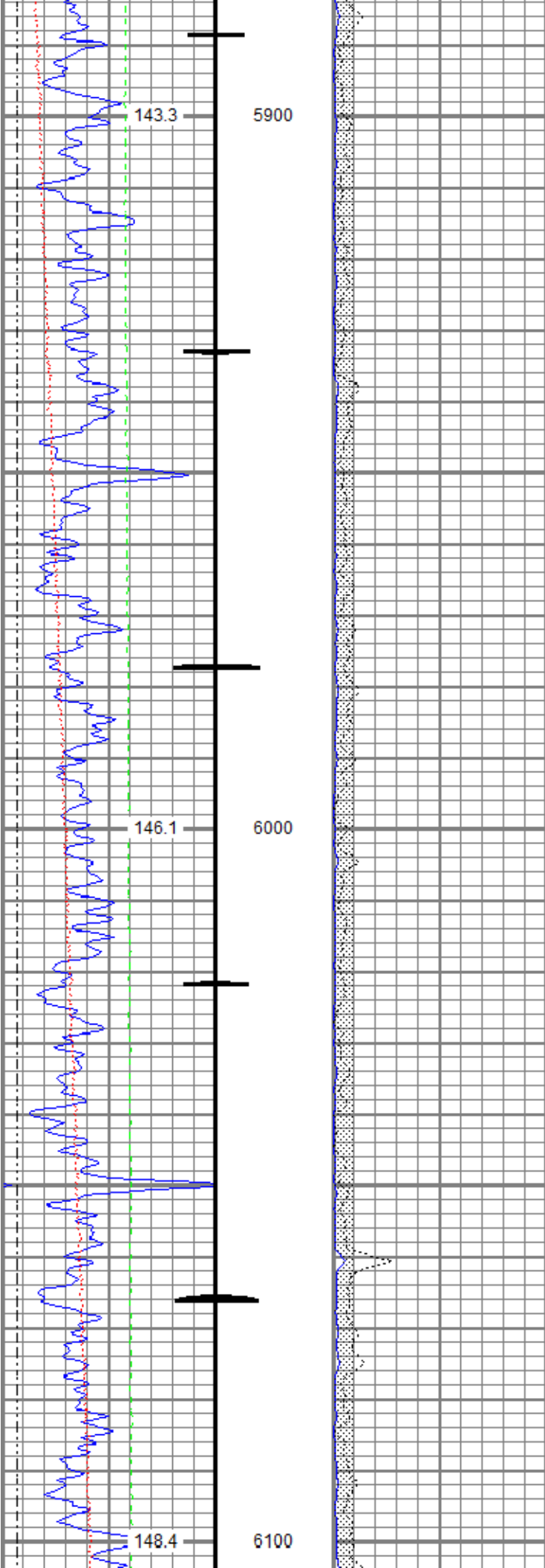


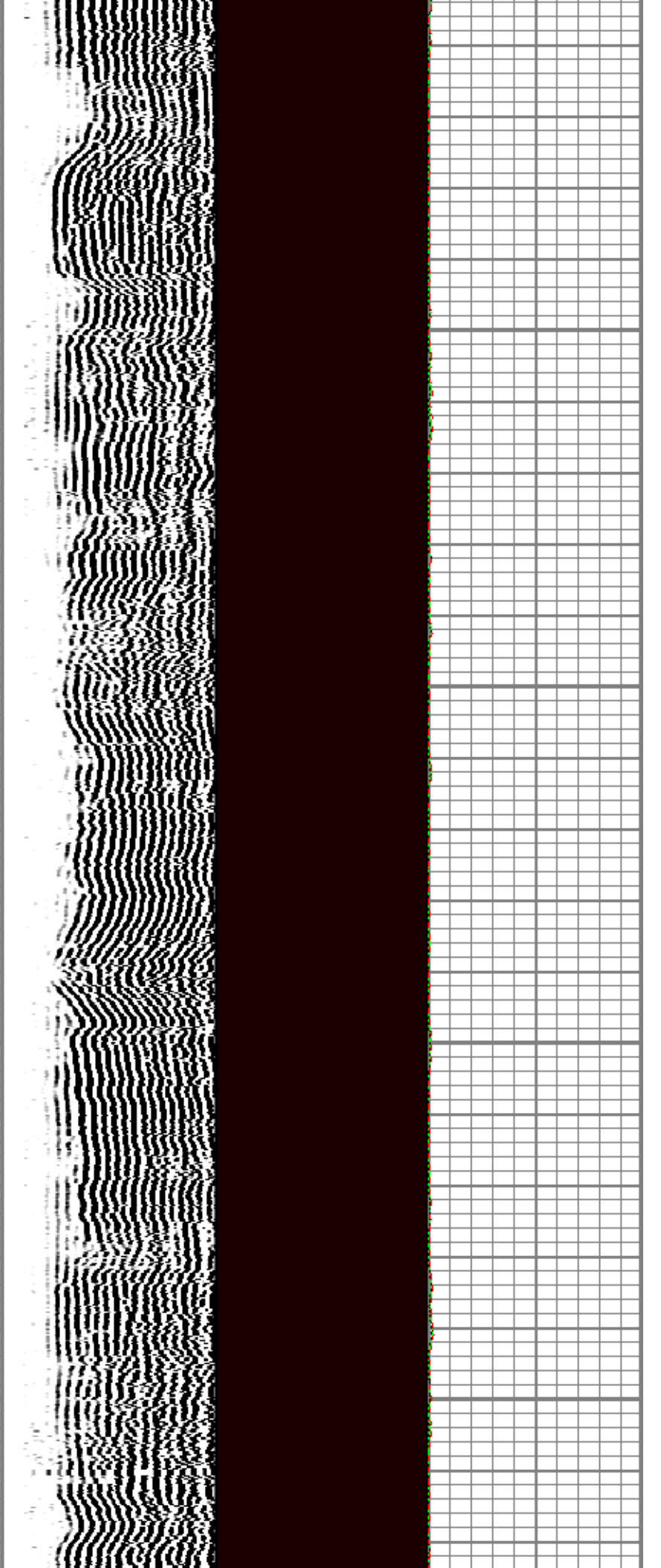
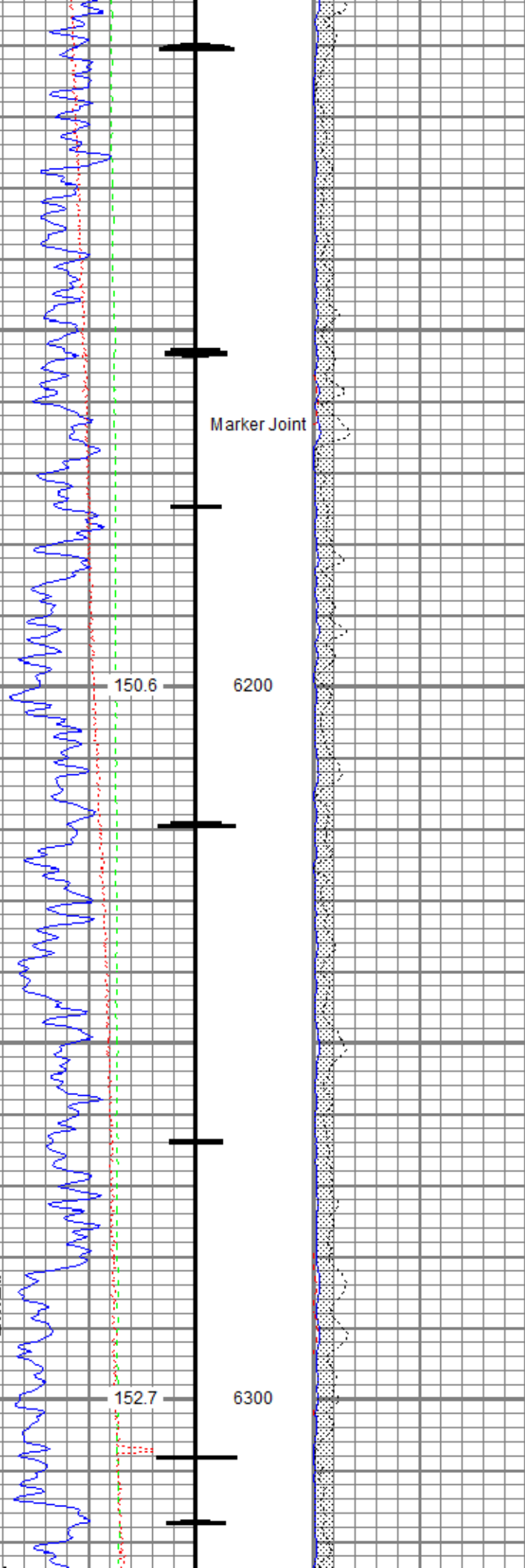


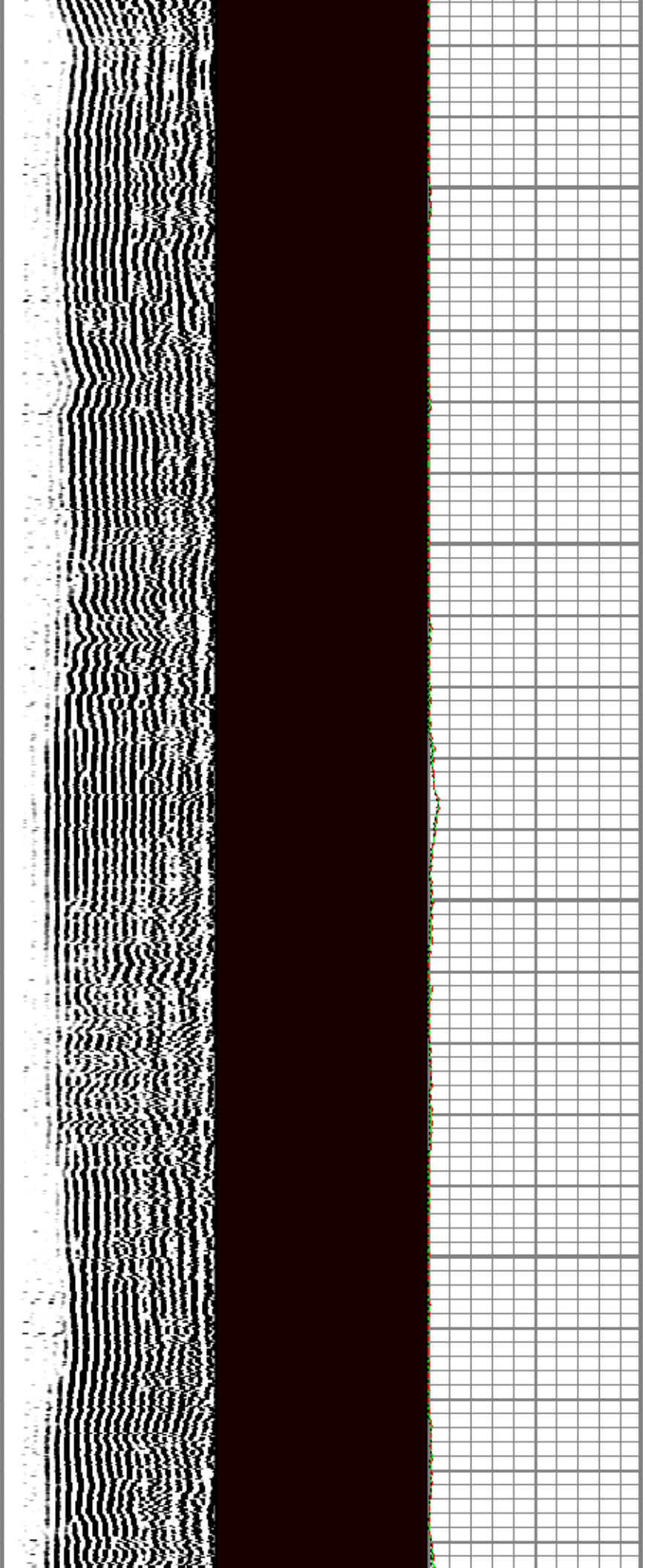
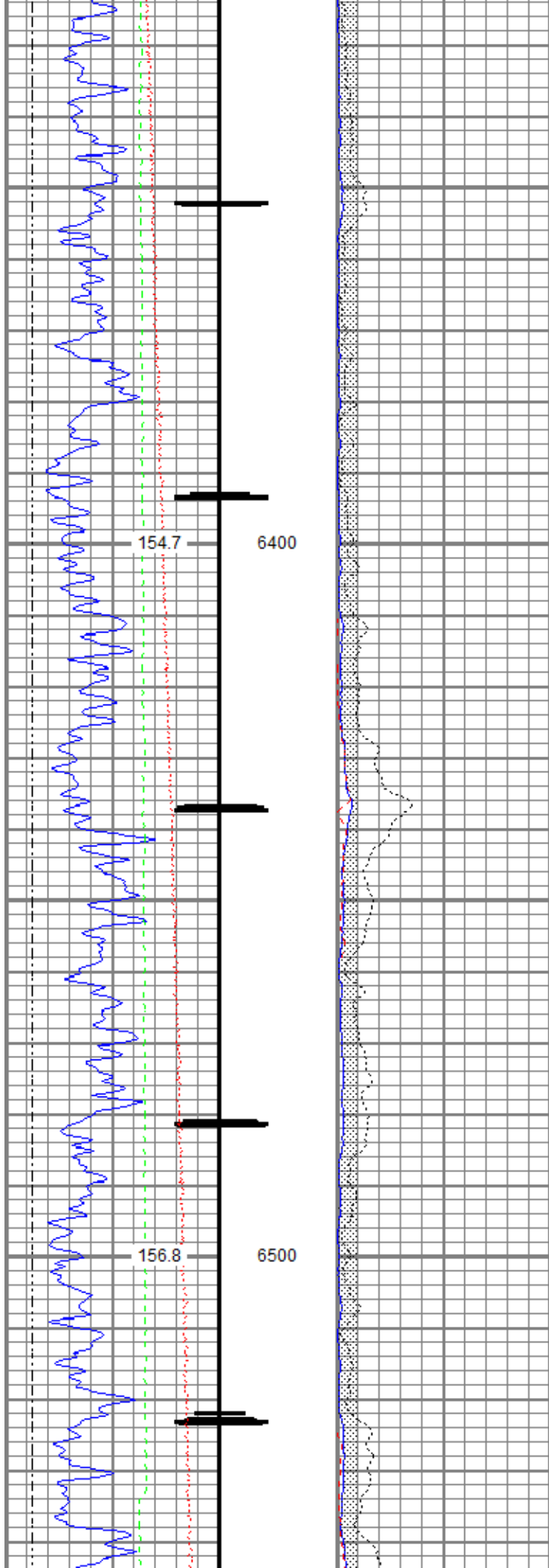


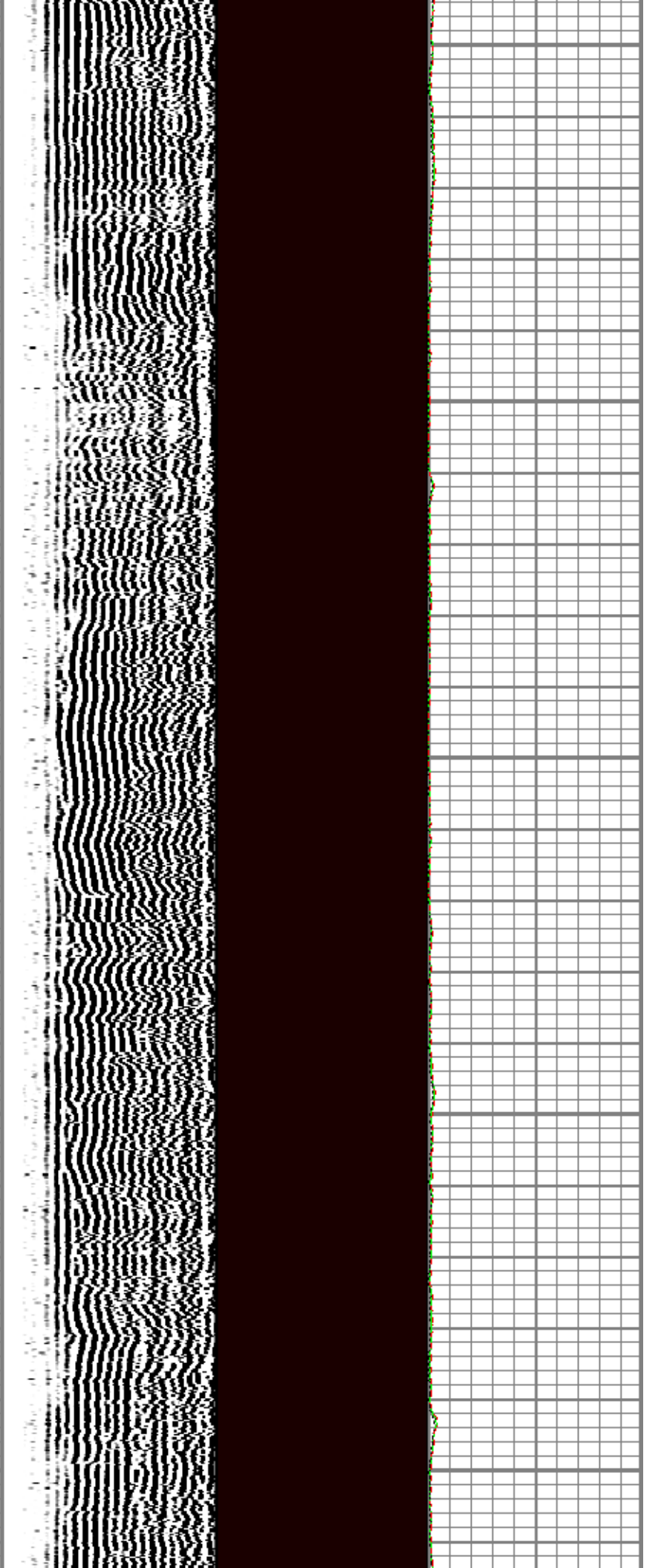
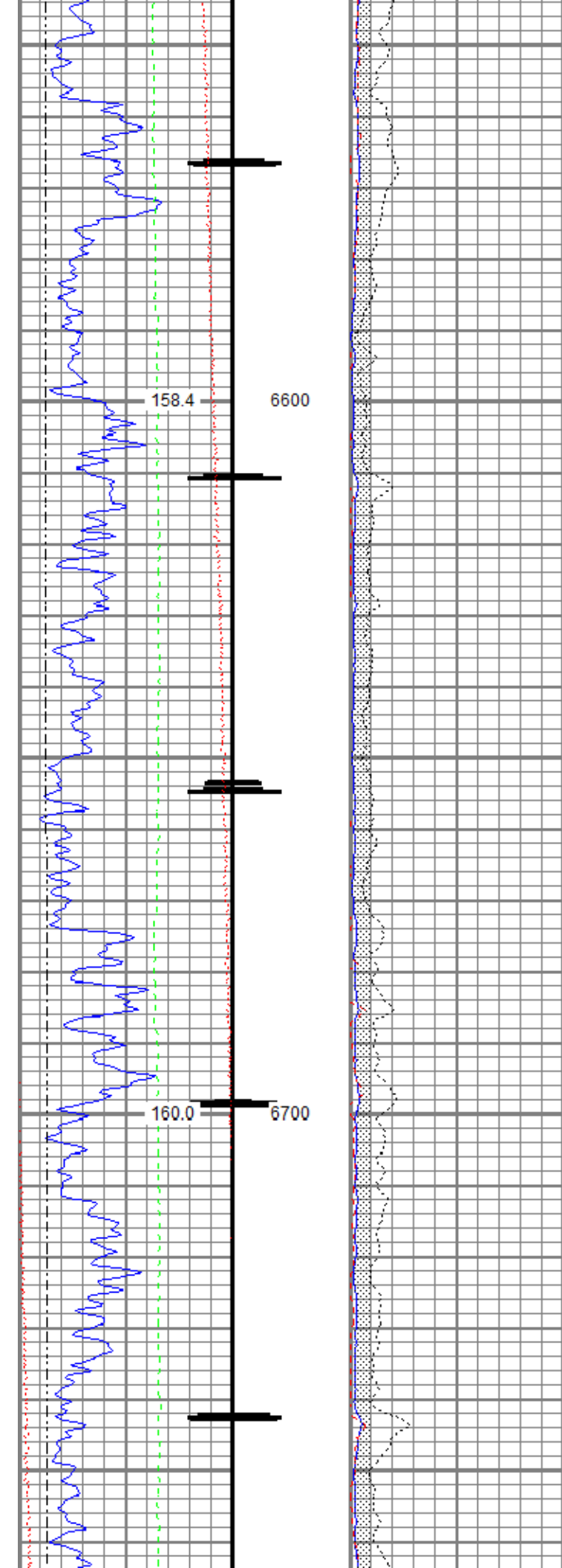


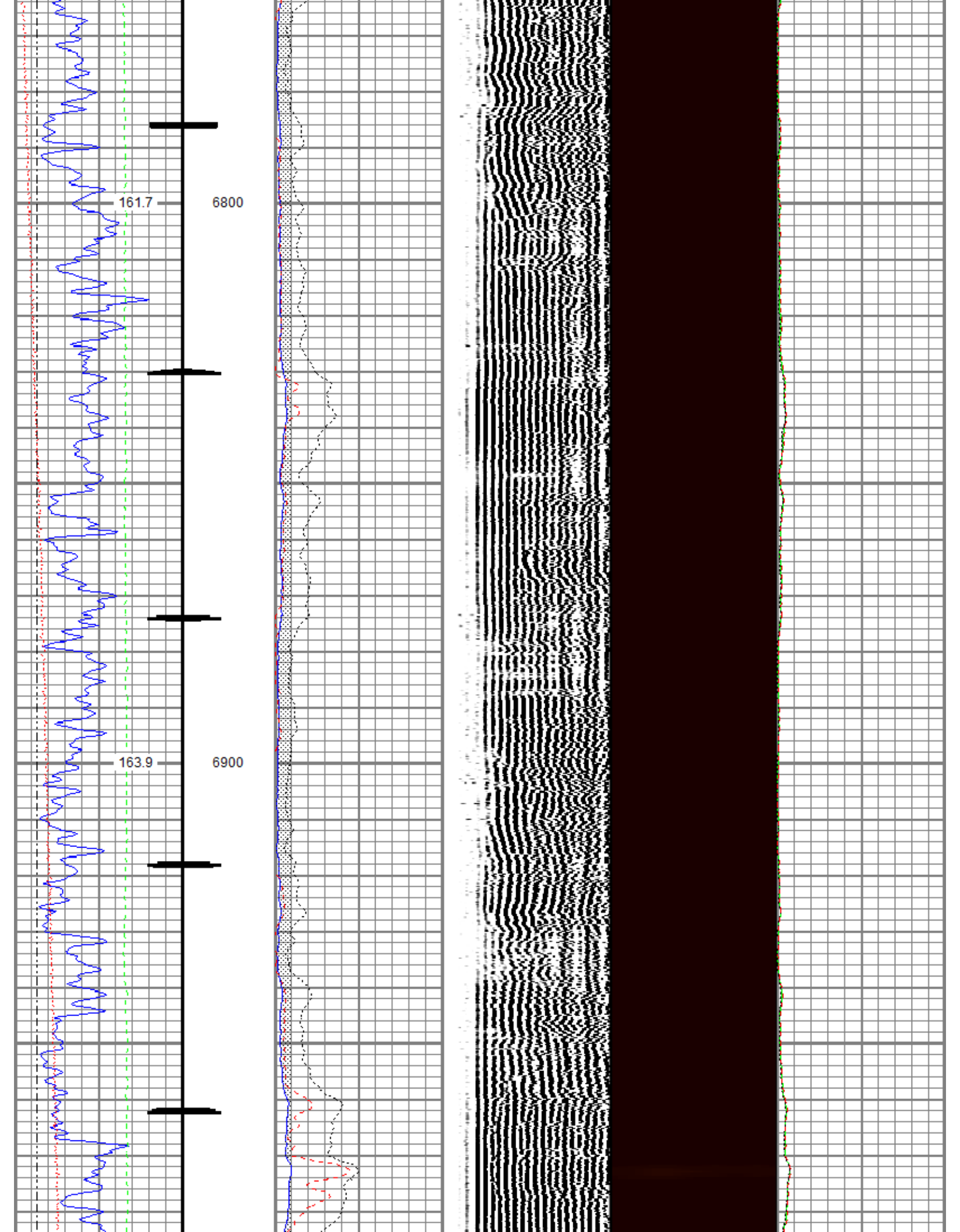


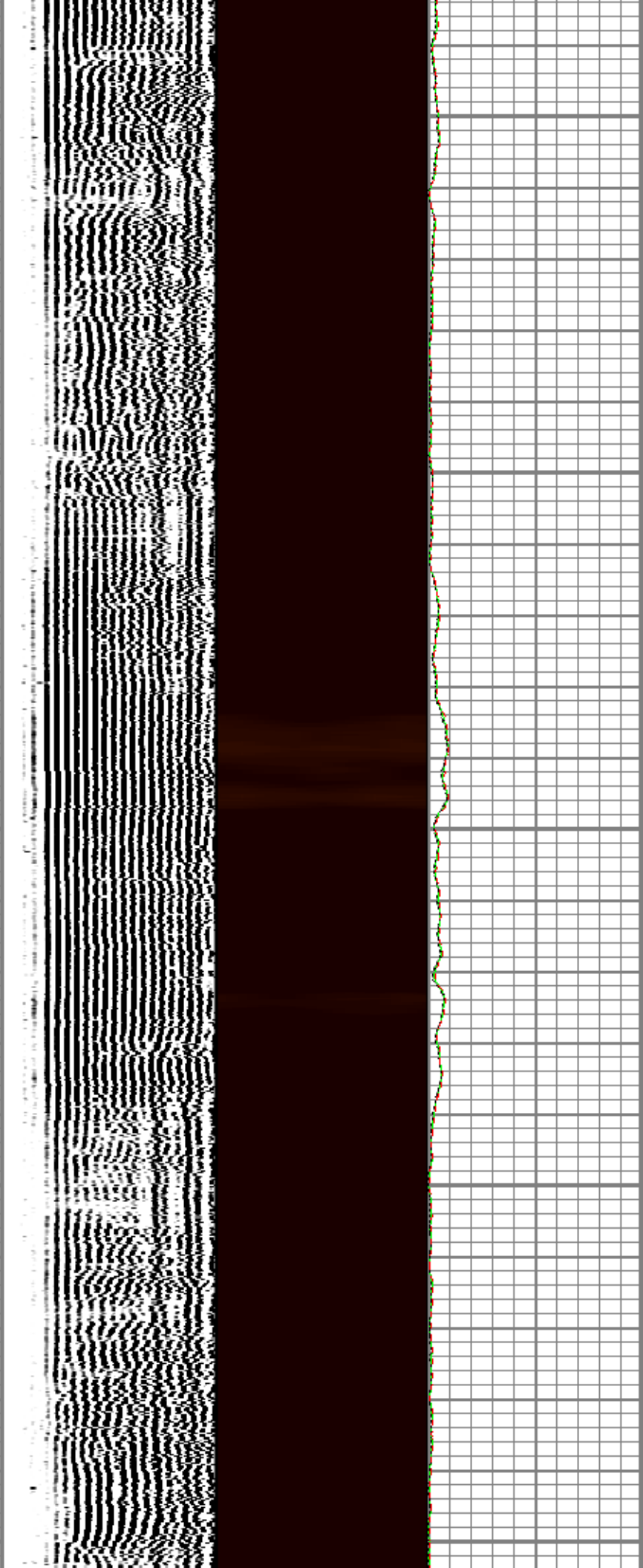
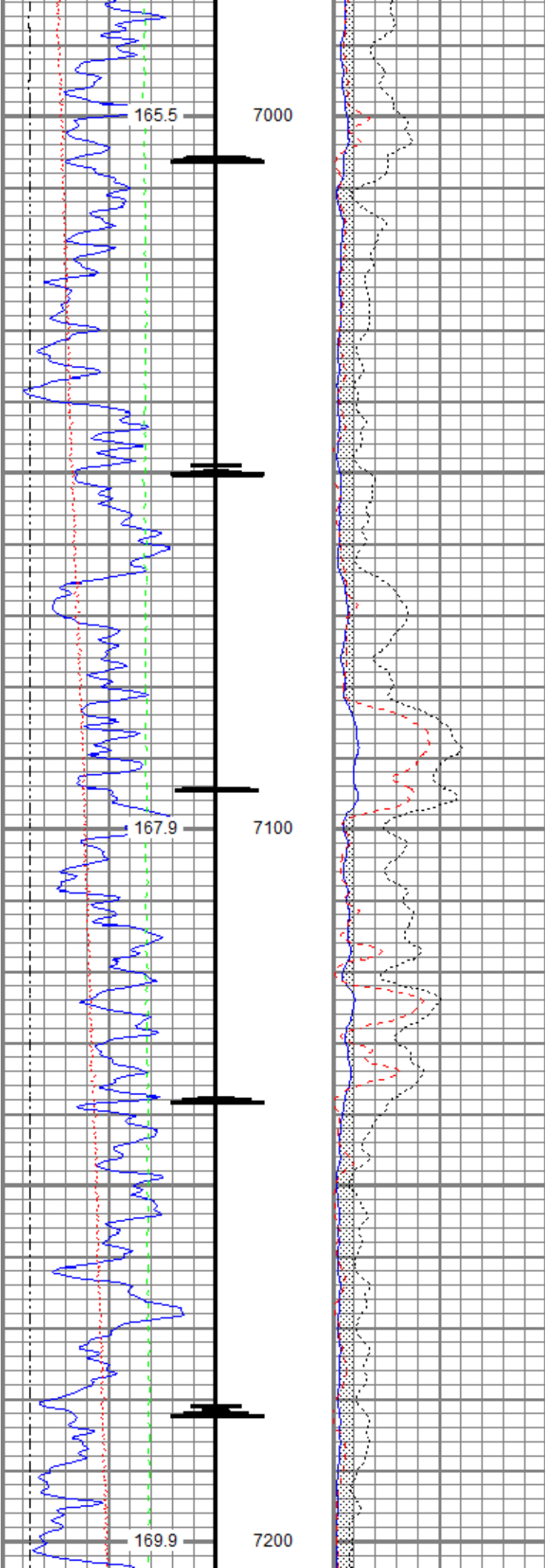


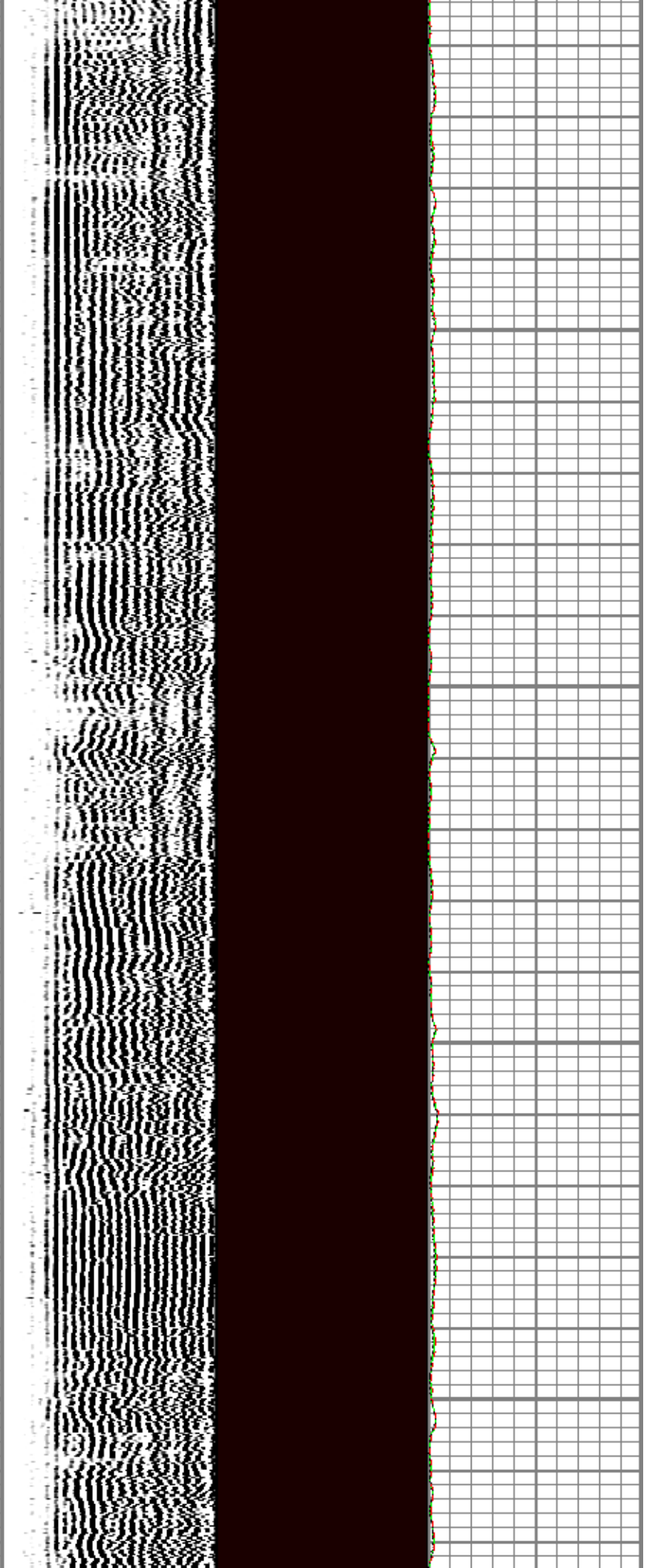
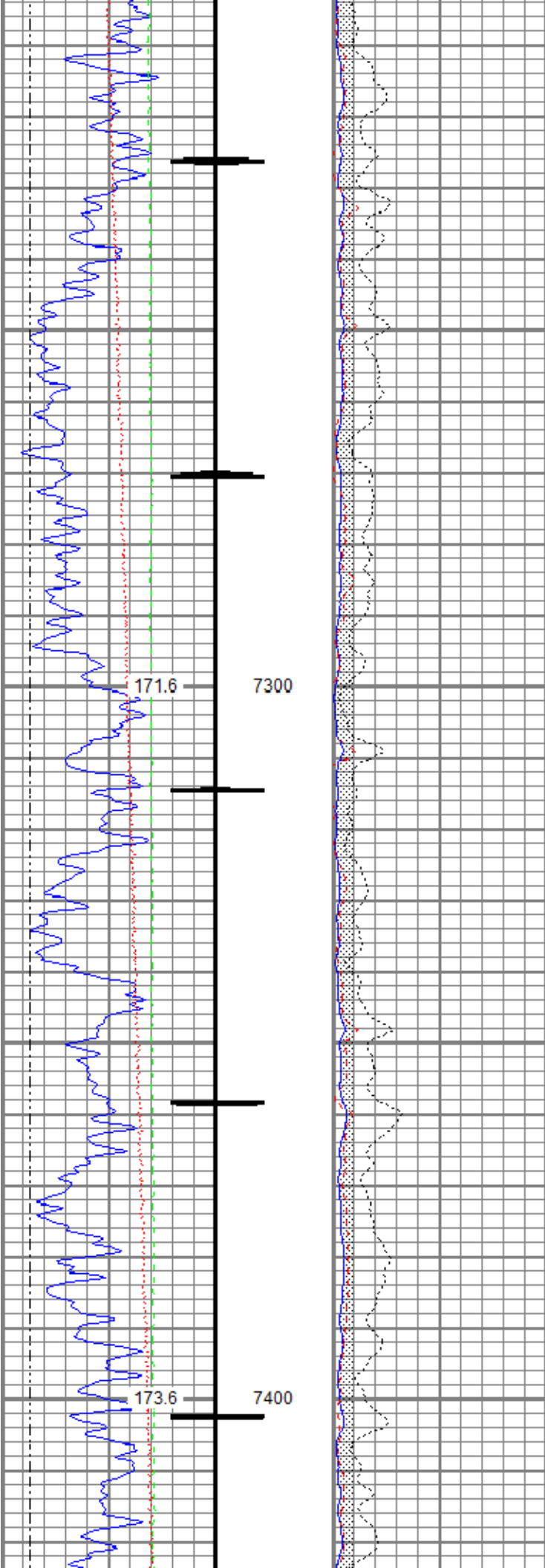


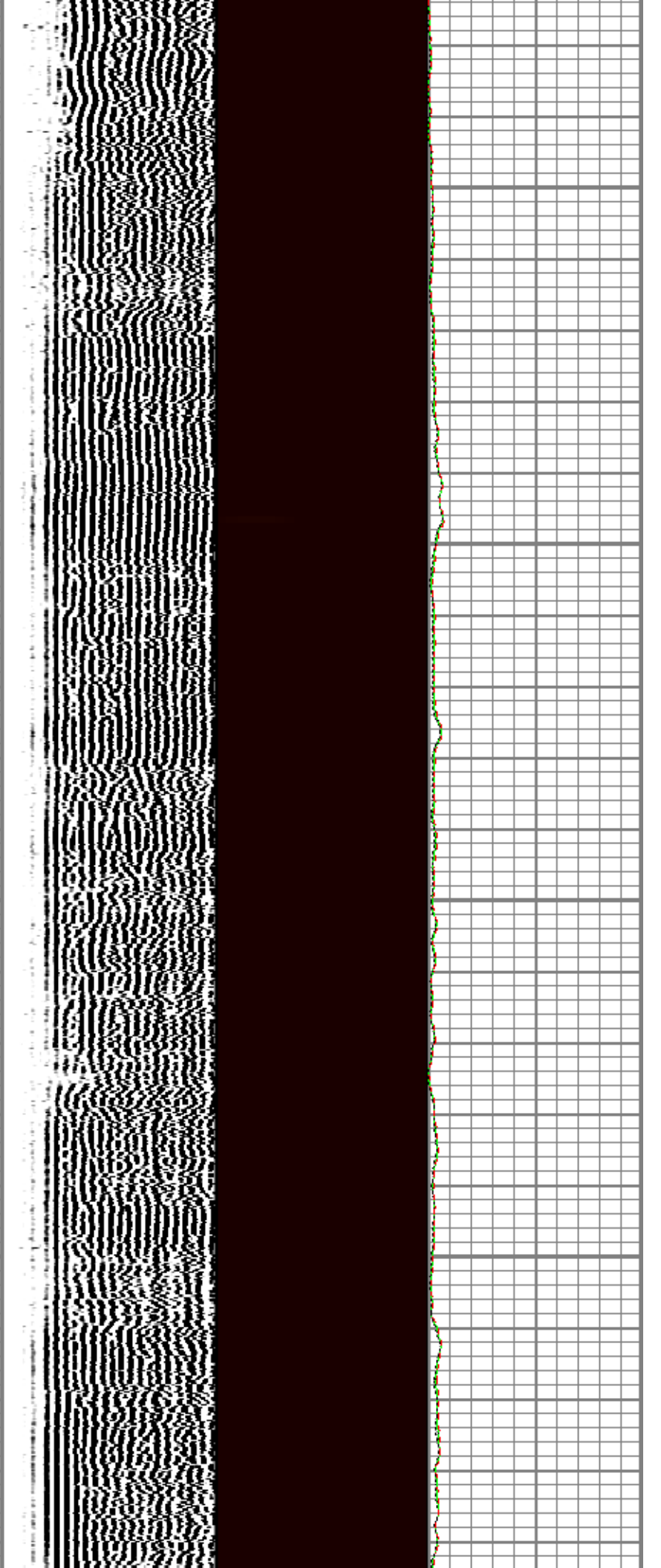
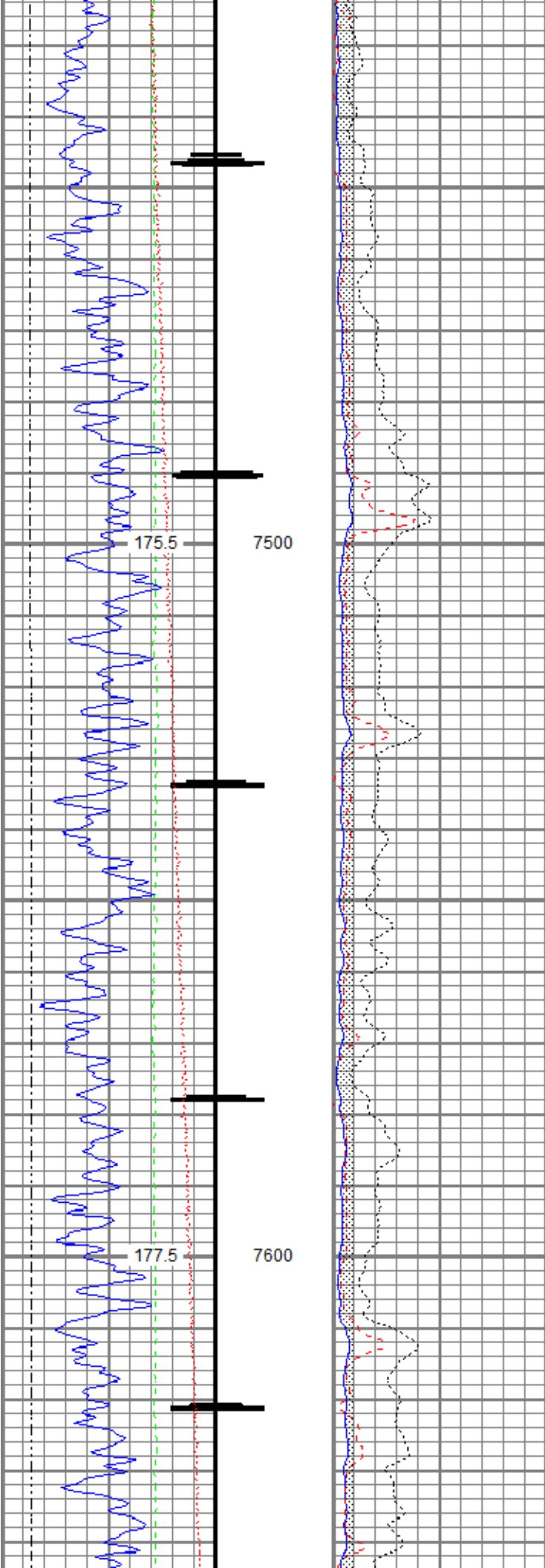


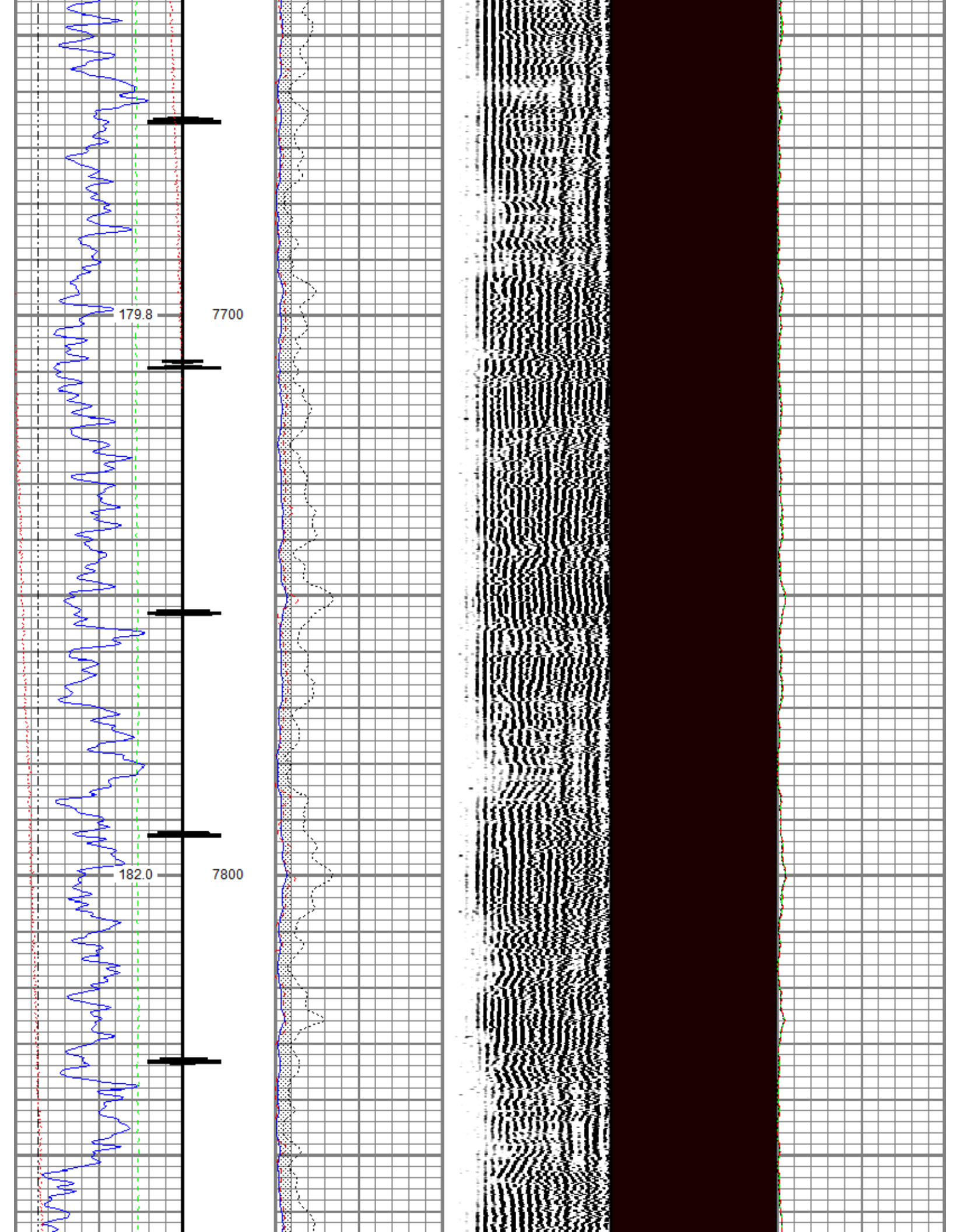


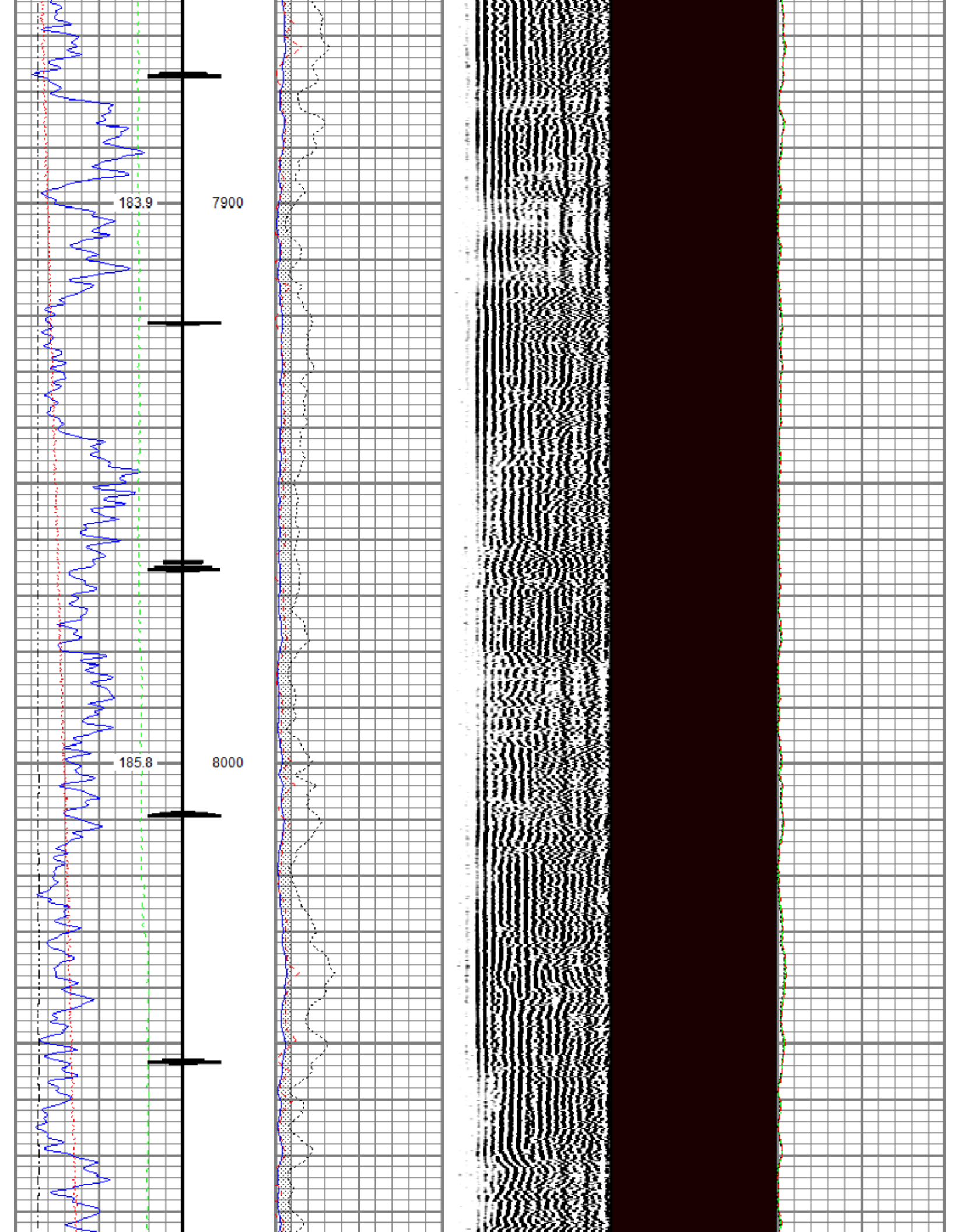


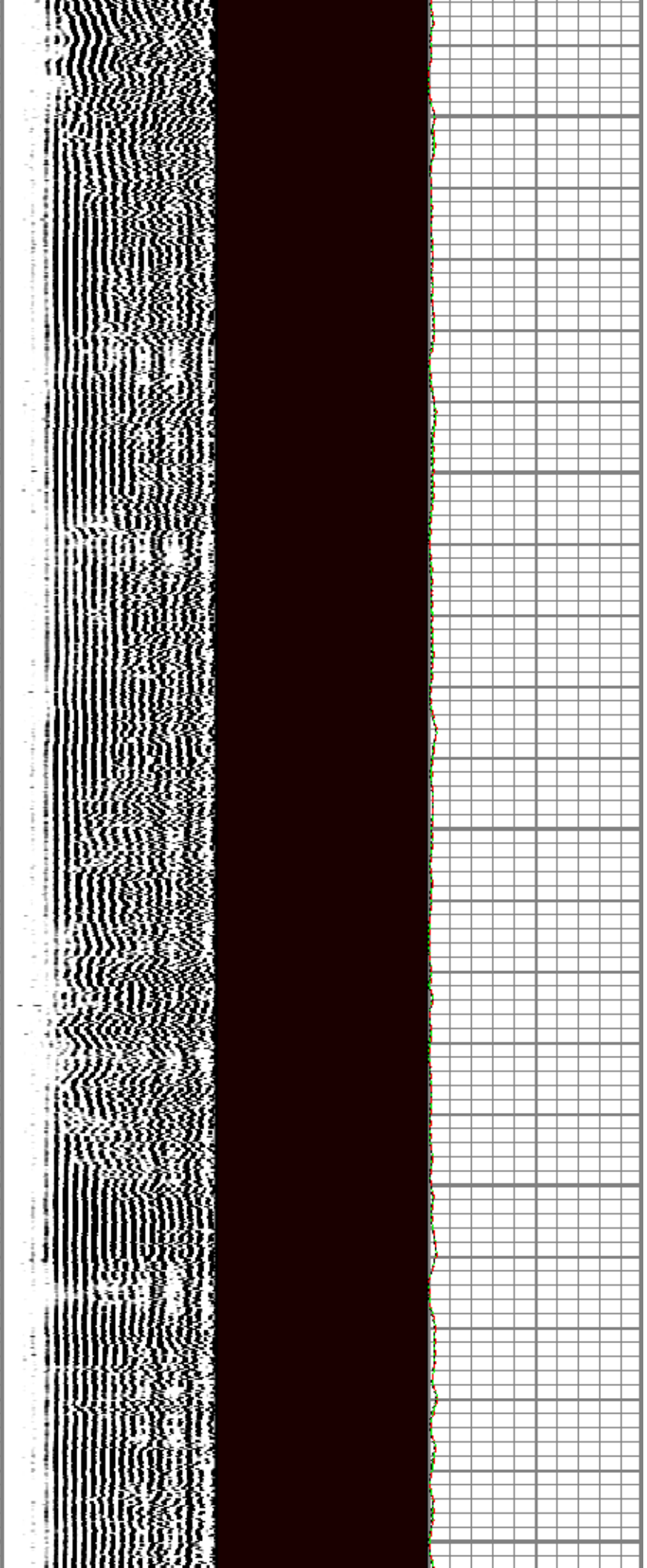
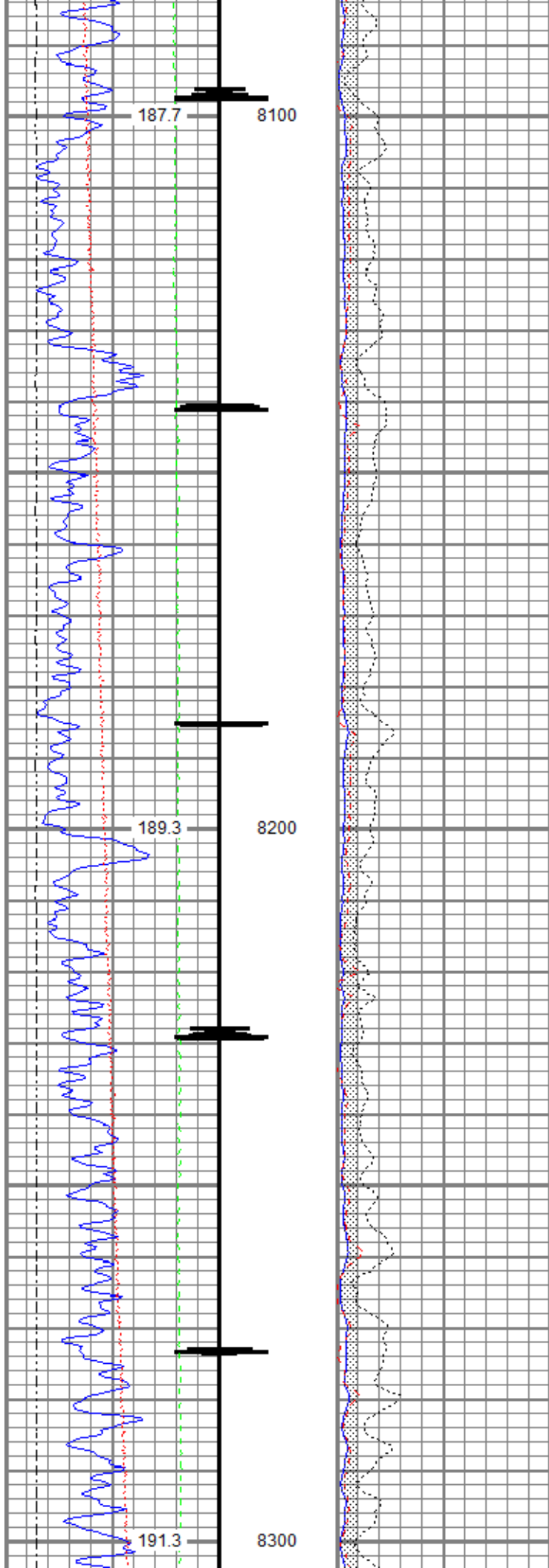


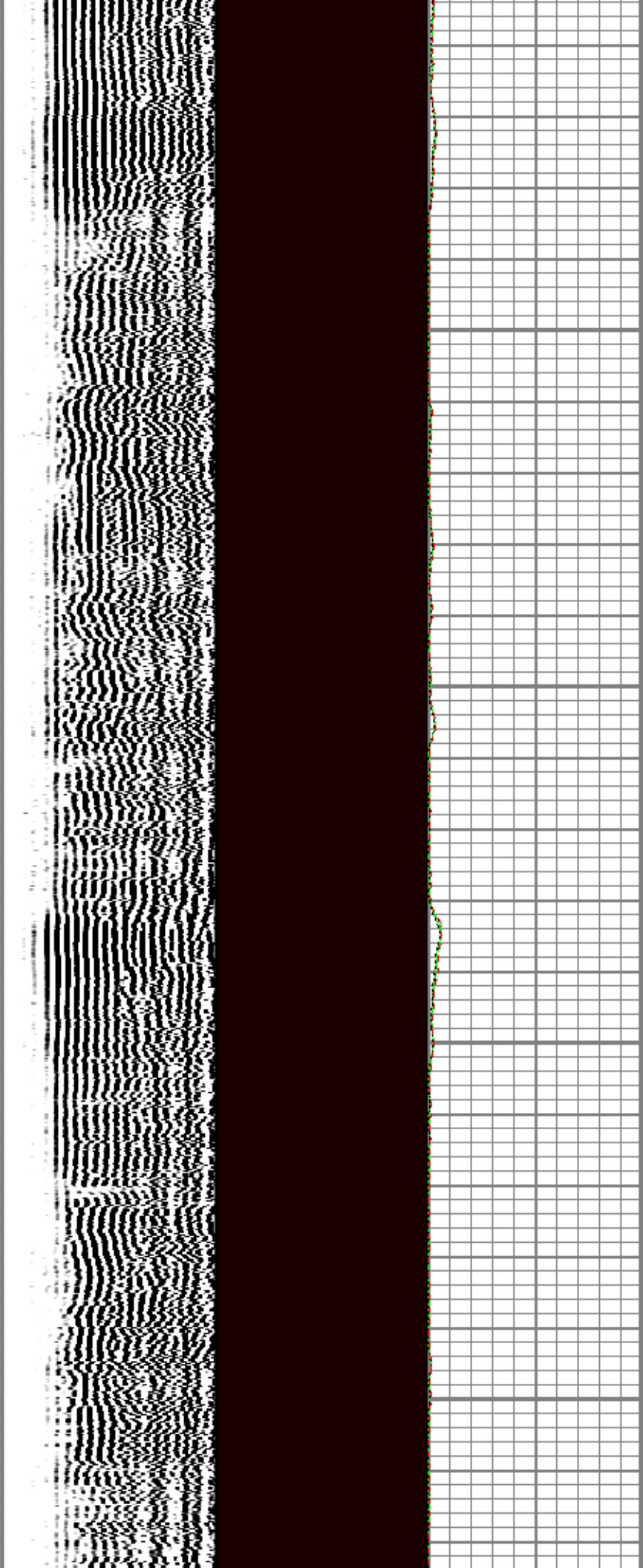
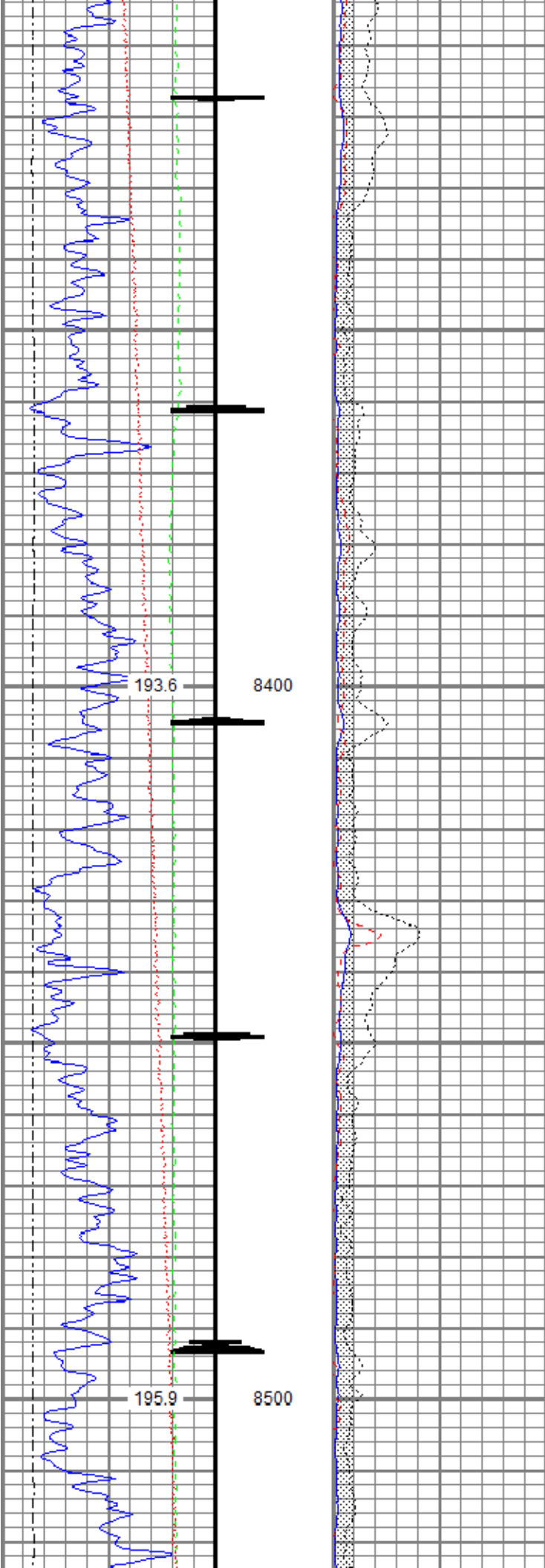


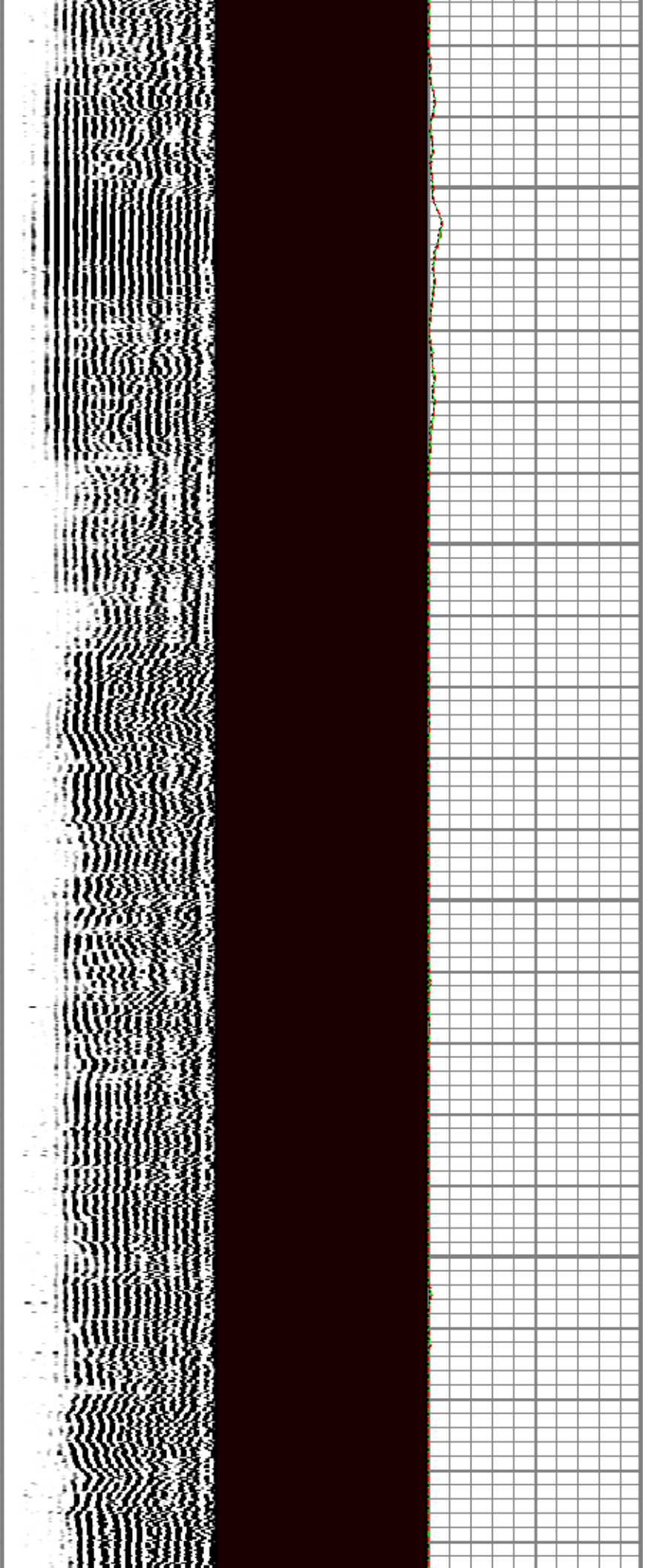
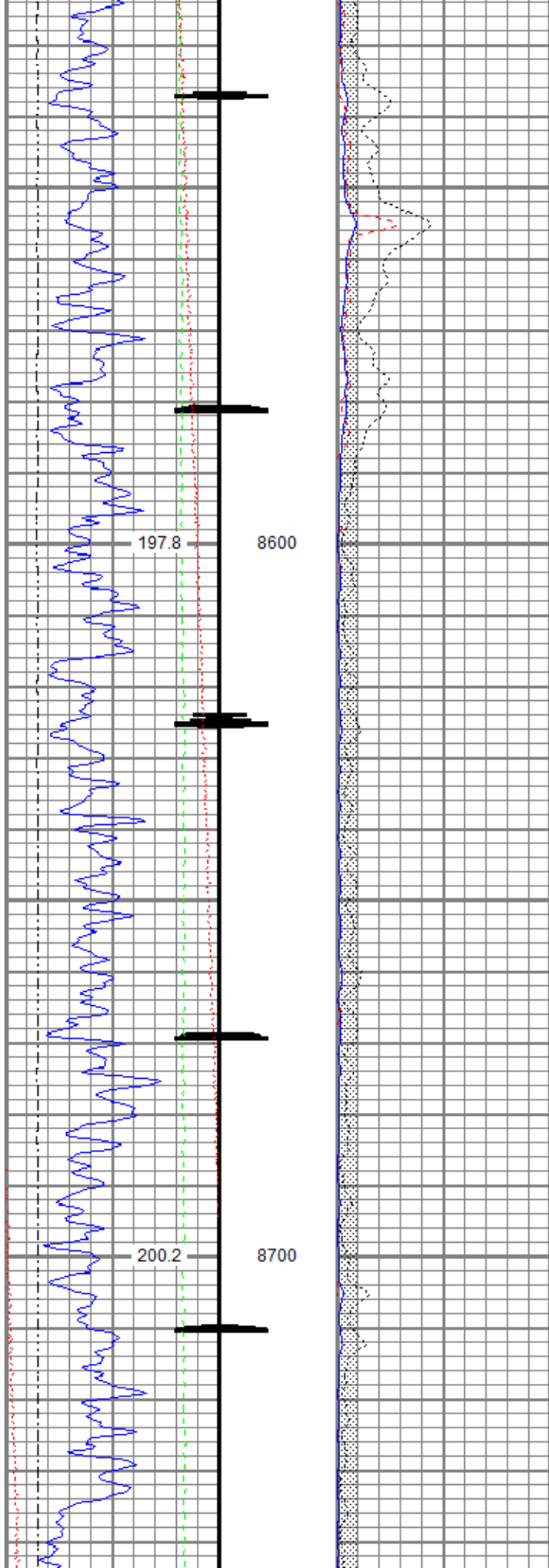


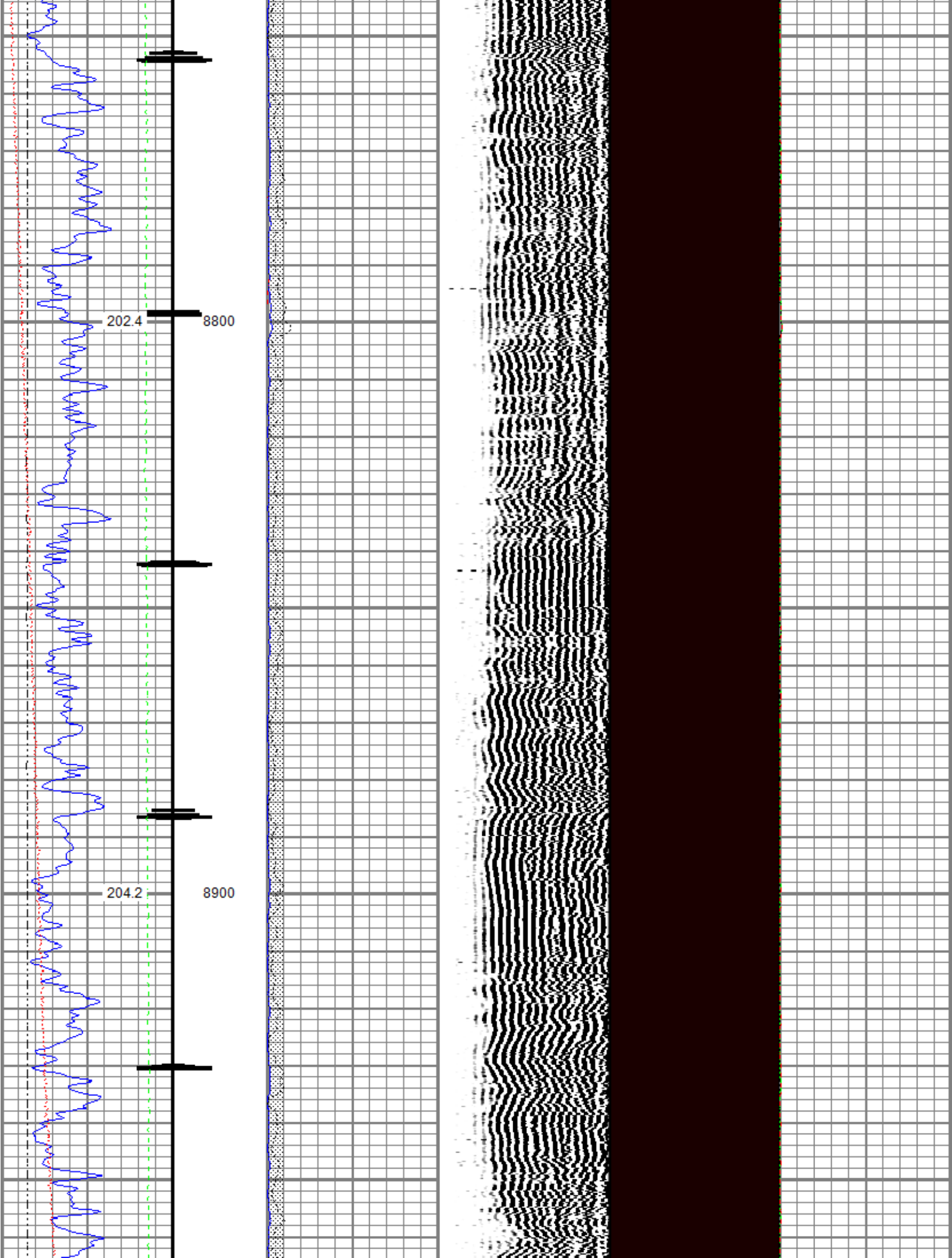


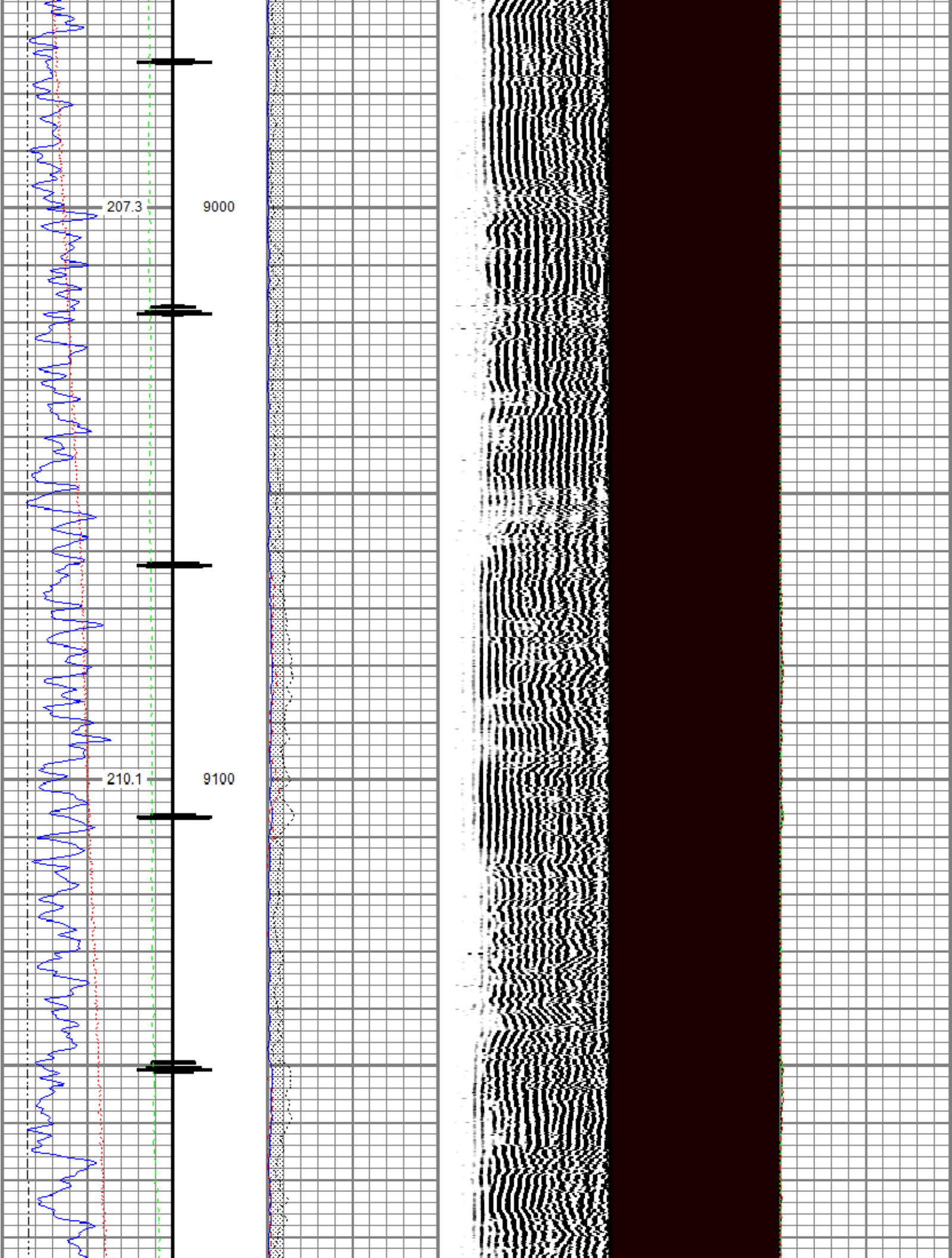


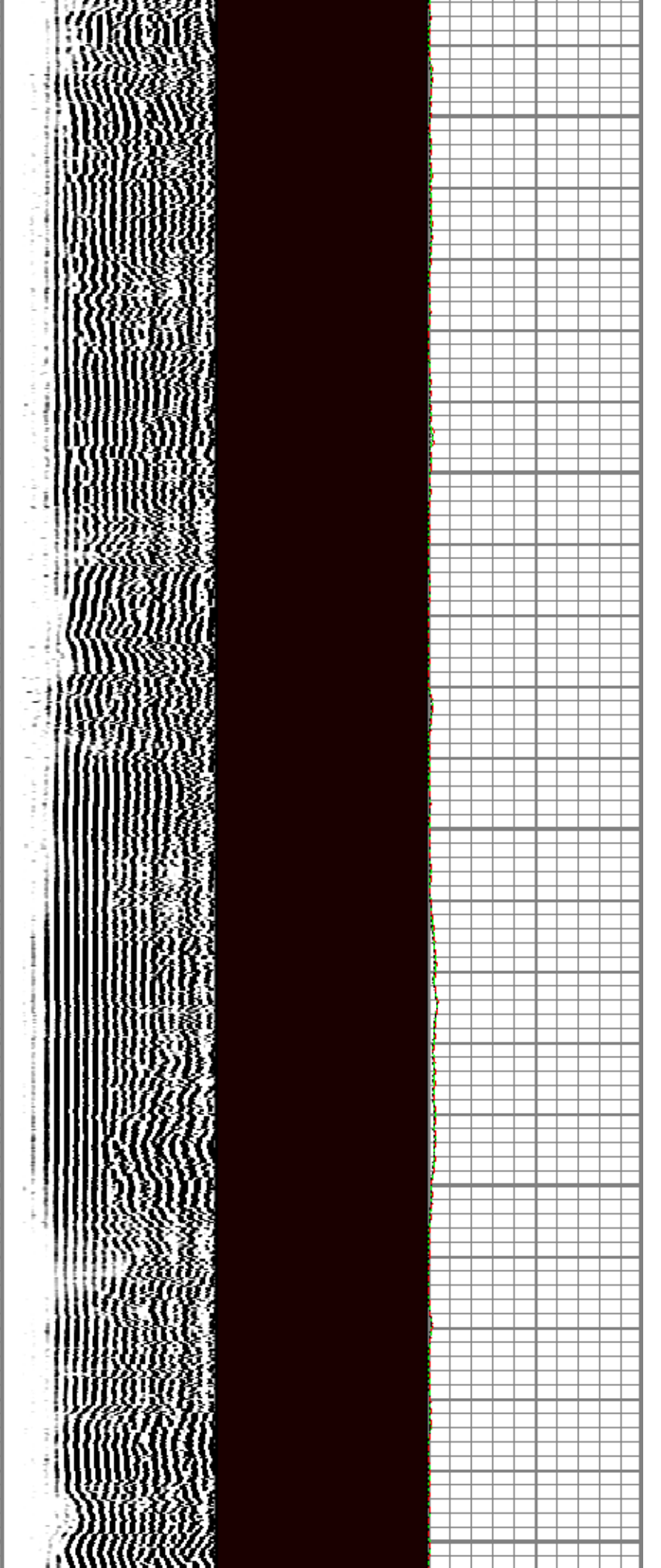
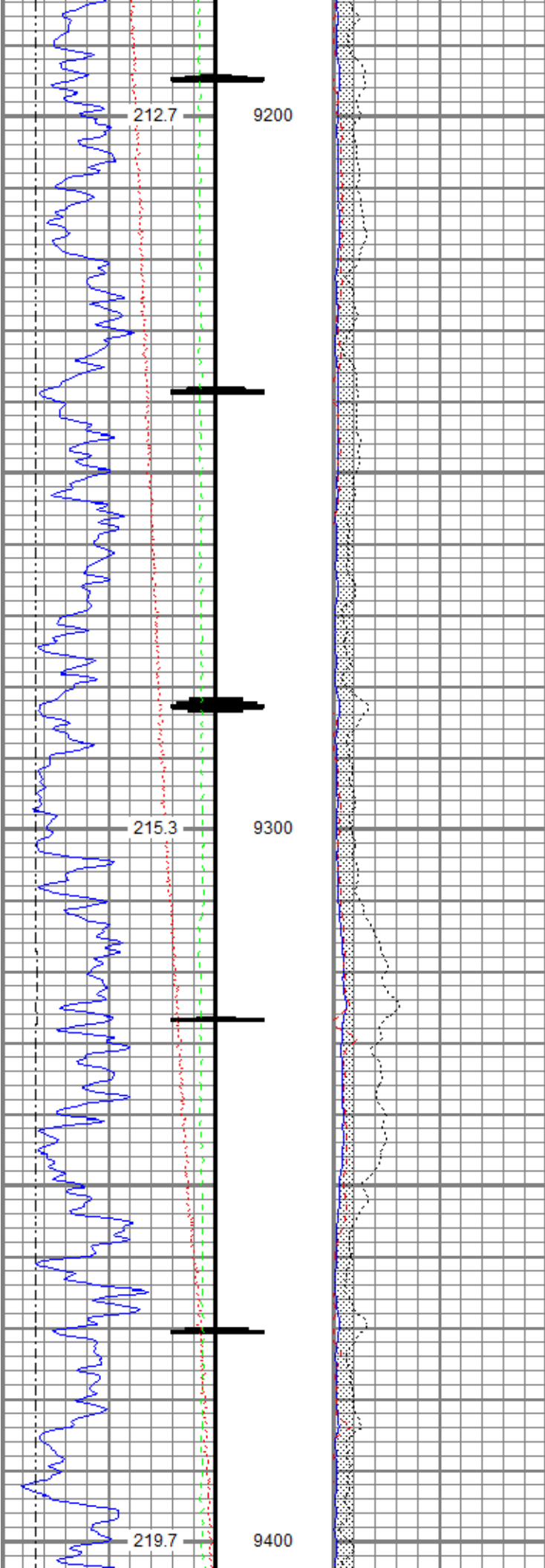


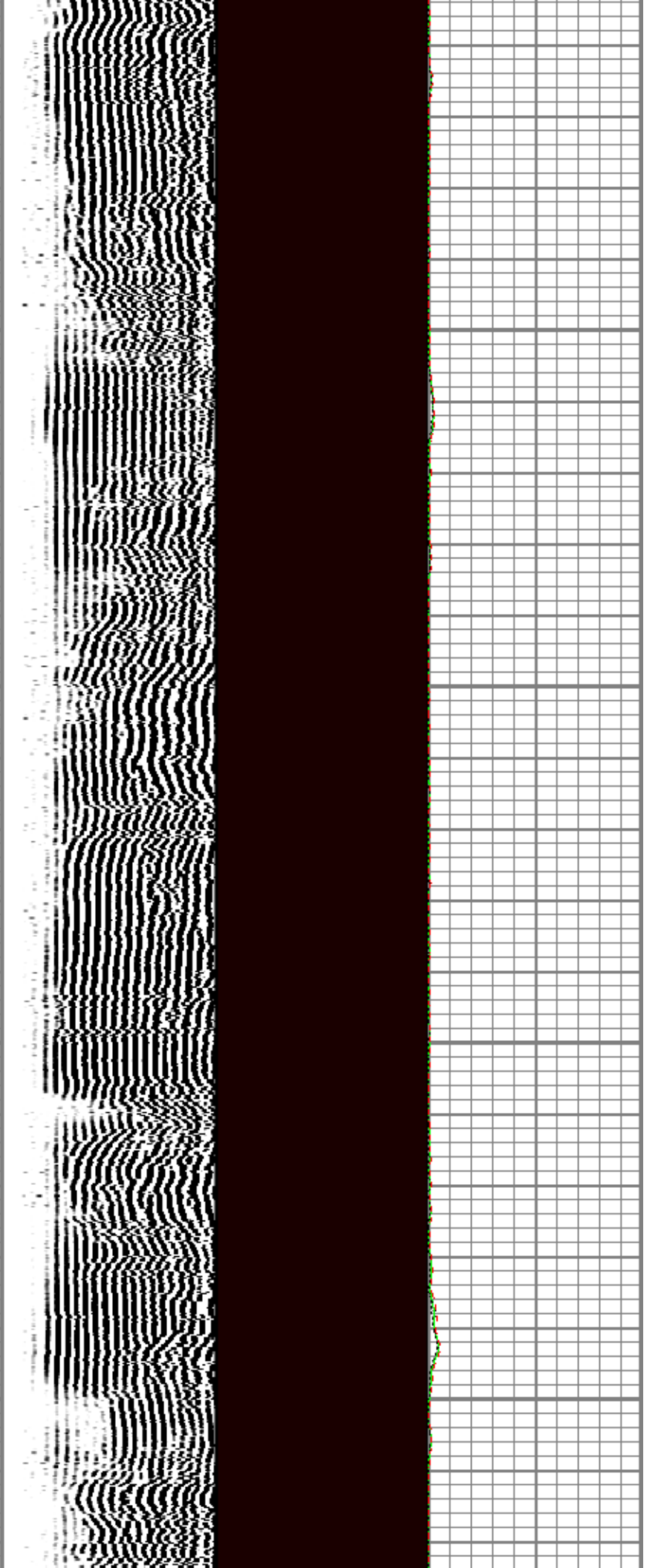
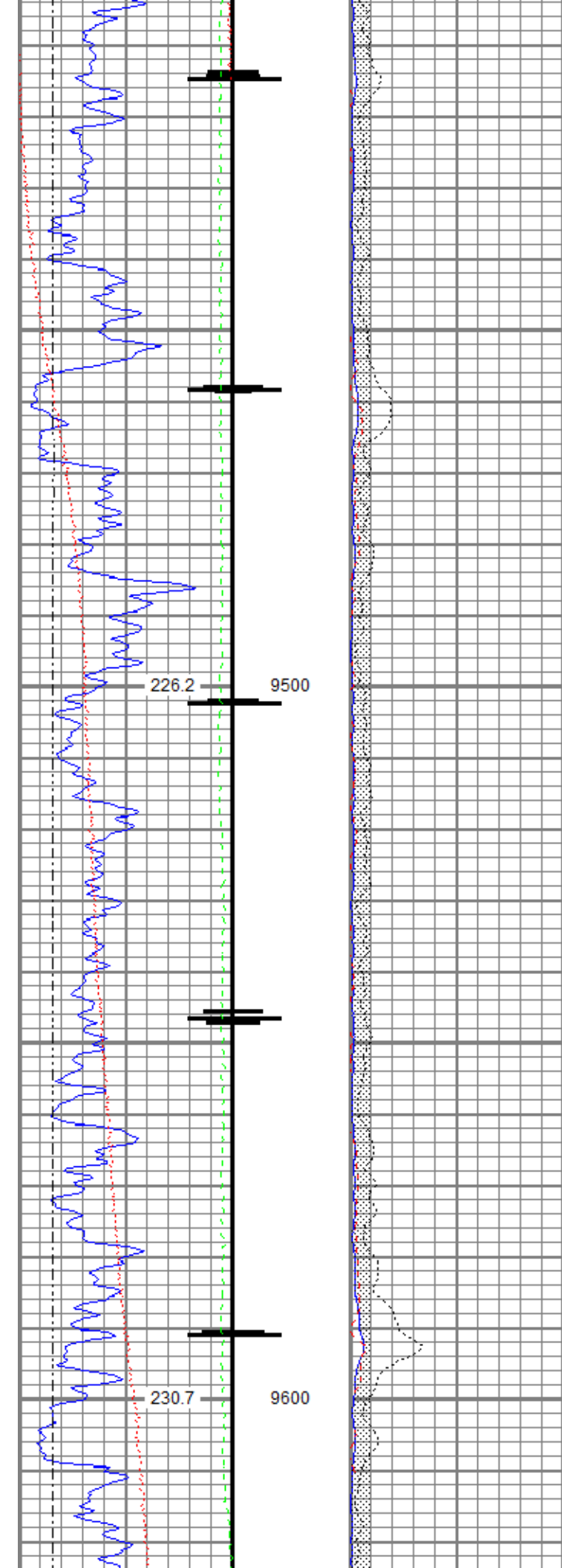


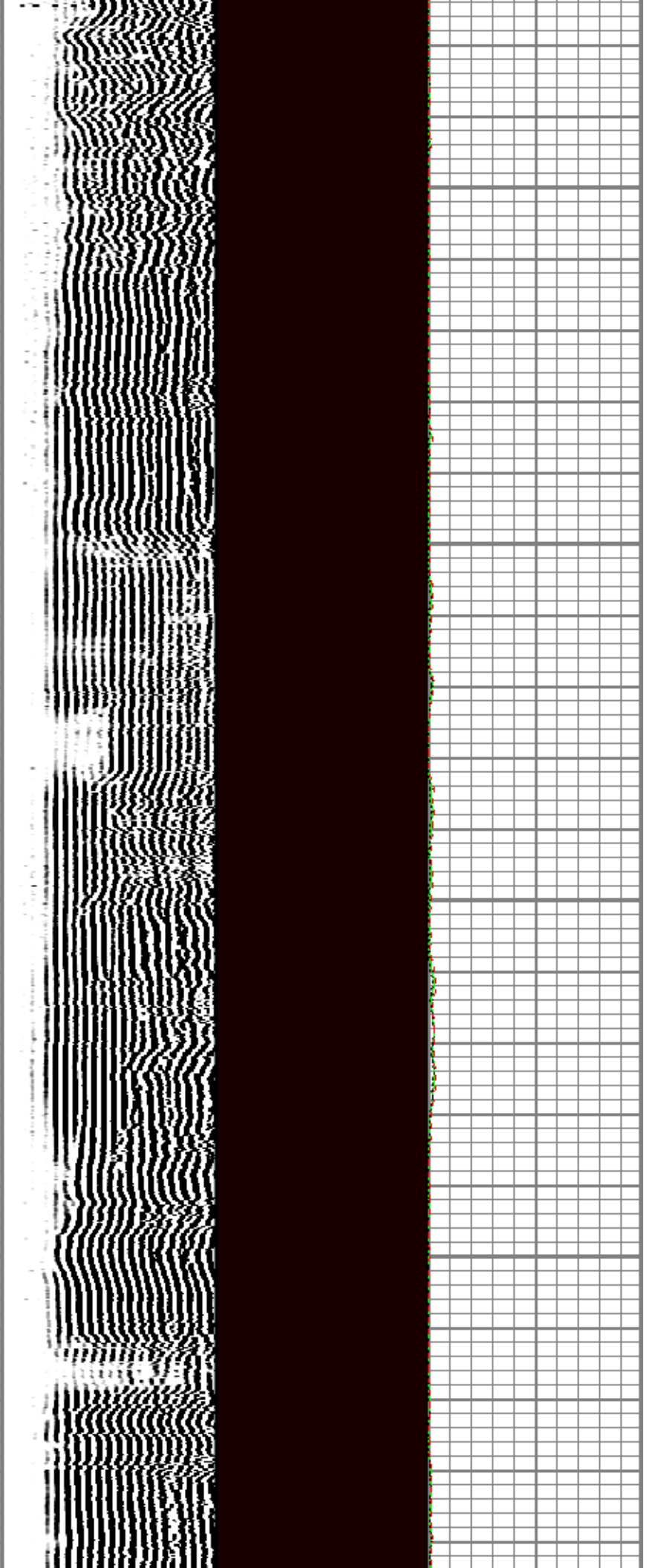
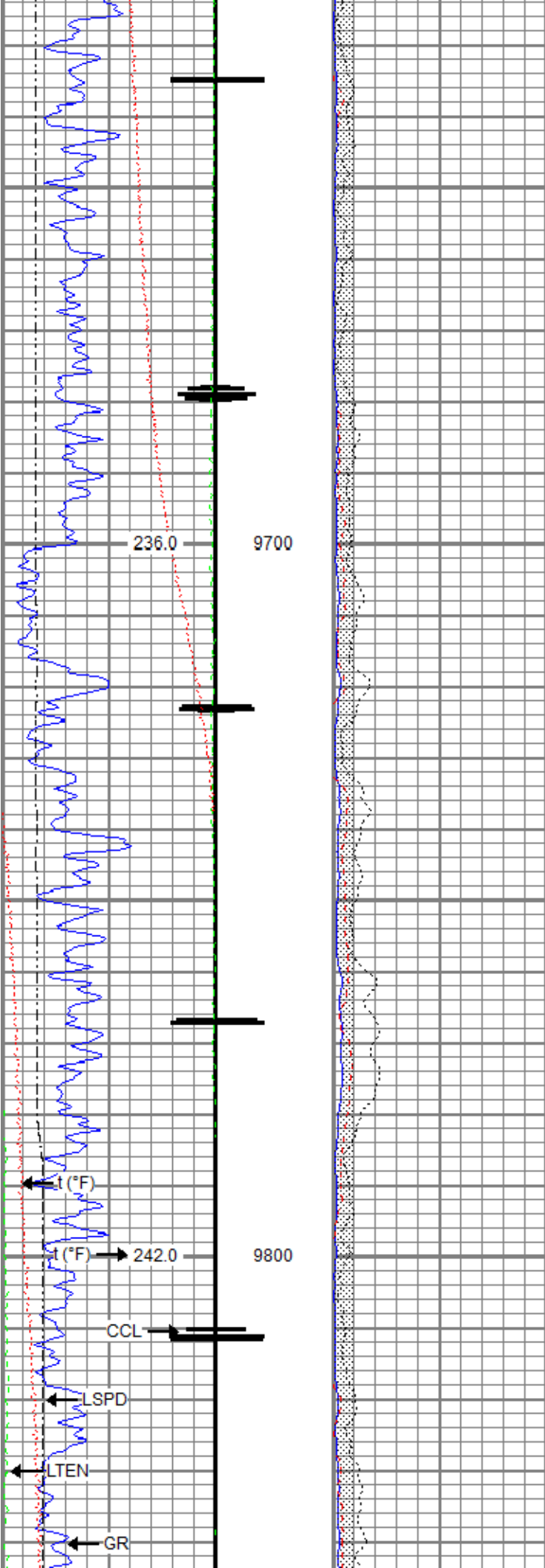


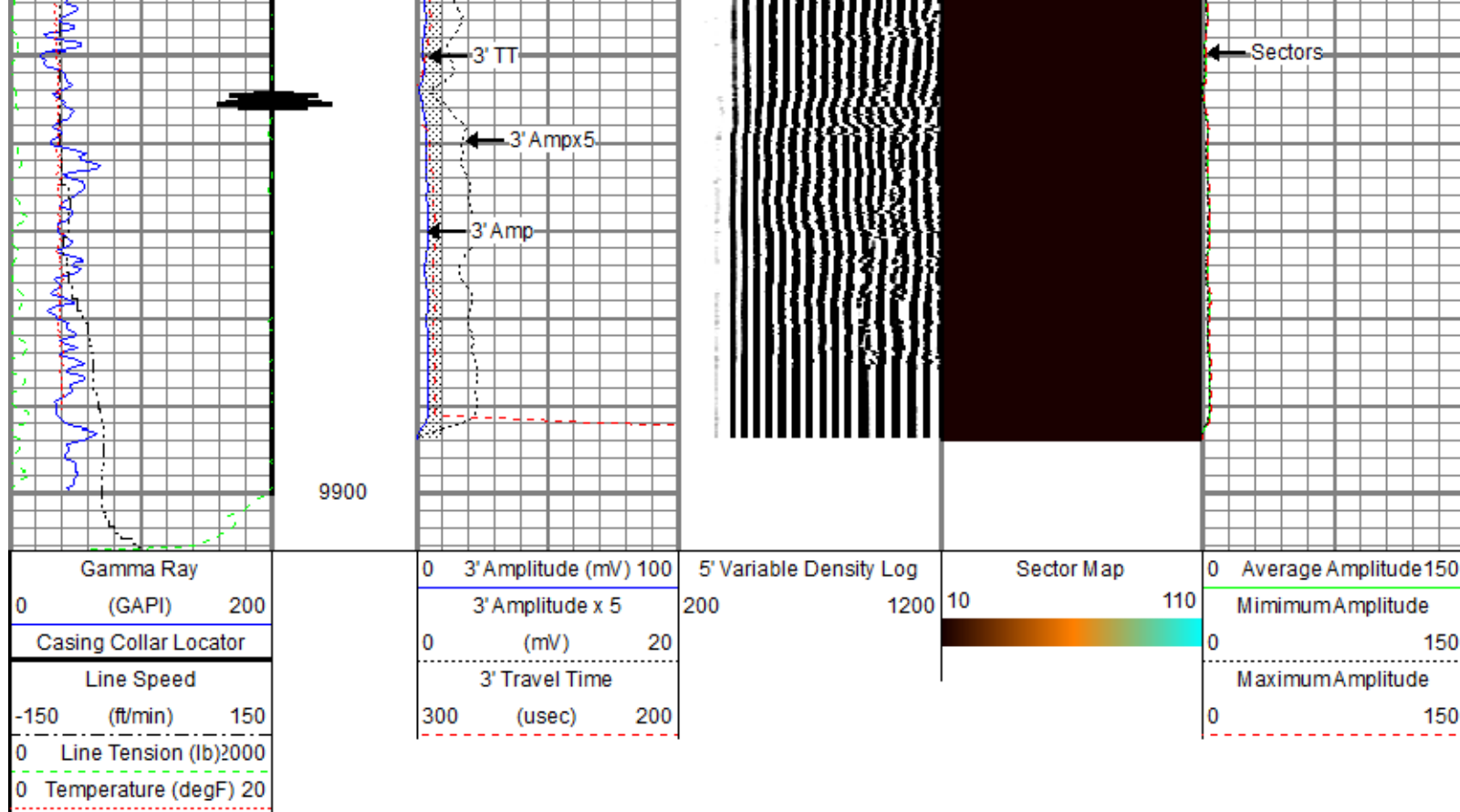








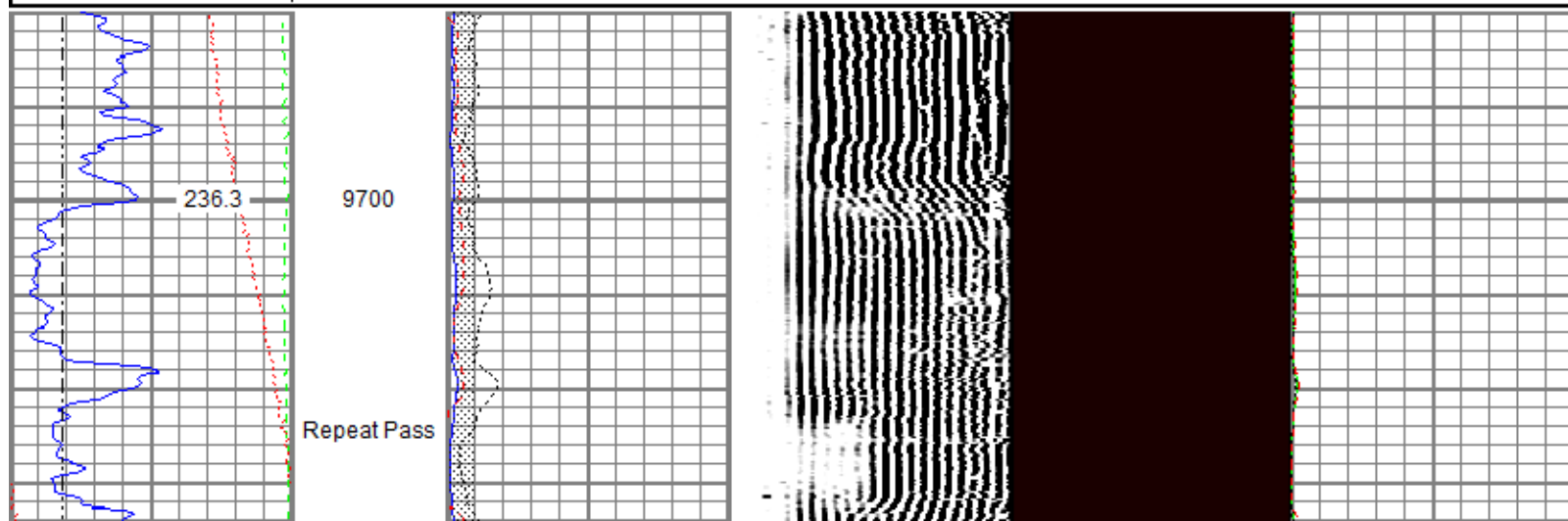
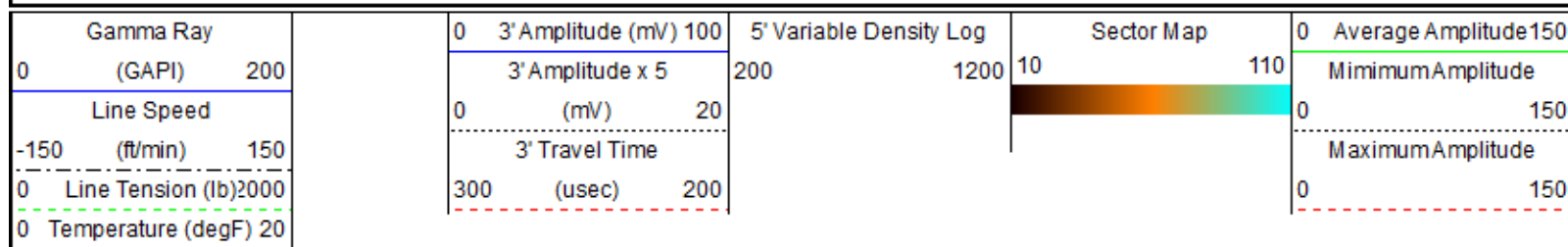


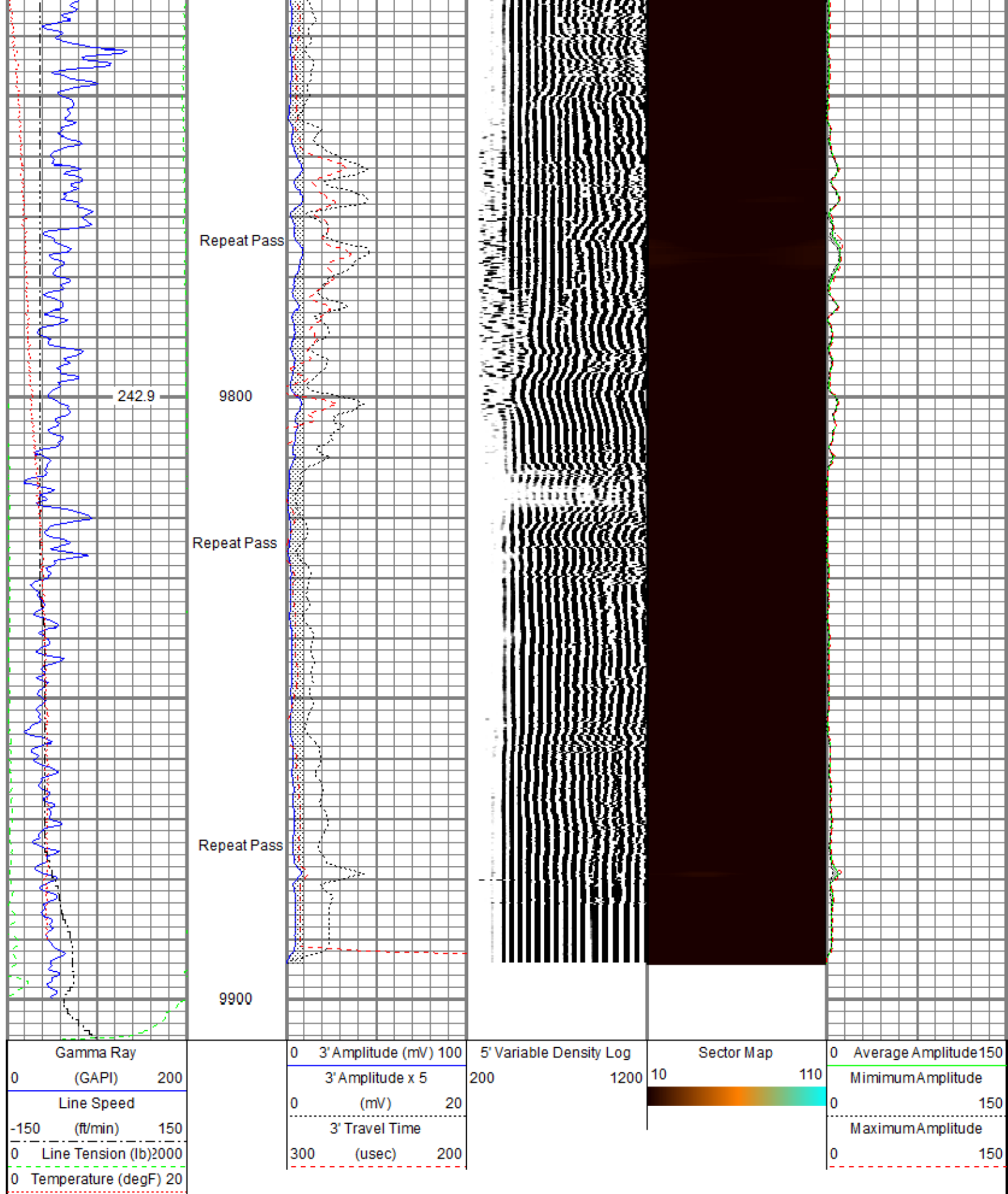



Repeat Pass

Recorded with 0 PSI Surface Induced Pressure

Database File tep_ware sr 512-12_rbl_12-31-17\processed_tep_ware sr 512-12_rbl_12-31-17.db
 Dataset Pathname repeat.1
 Presentation Format ros_rbt004_tep
 Dataset Creation Wed Jan 03 09:59:46 2018
 Charted by Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan_Electric_Cable_Heads-Titan_1-11/16" Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40

				DSS_RAC-RAC_5-Arm 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
Temp	16.05						
WVFS8	13.88			Probe_RADII-C-P_RBT_2750 (FW1305-098) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.19	2.75	105.00
WVFS7	13.88						
WVFS6	13.88						
WVFS5	13.88						
WVFS4	13.88						
WVFS3	13.88						
WVFS2	13.88						
WVFS1	13.88						
WVFCAL	13.88						
WVF3FT	13.88						
WVF5FT	12.88						
HeadVolt	9.63						
				DSS_RAC-RAC_5-Arm 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
DCCL	6.18						
CCL	6.18						
GR	4.96			Probe_GR_CCL-P_CGR_2750_S (FW1307-03) Probe 2-3/4" Digital CCL / Gamma Ray Combined	4.54	2.75	55.00
				DSS_RAC-RAC_5-Arm 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
Dataset: PROCESSED_TEP_Ware SR 512-12_RBL_12-31-17.db: field/well/run1/main.1 Total length: 22.40 ft Total weight: 261.40 lb O.D.: 2.75 in							

Calibration Report

Database File C:\ProgramData\Warrior\Data\TEP_Ware SR 512-12_RBL_12-31-17\PROCESSED_TEP_Ware SR 512-12_RBL_12-31-17.db
 Dataset Pathname main.1

Gamma Ray Calibration Report

Serial Number:	FW1307-038	
Tool Model:	P_CGR_2750_S	
Performed:	Sat Feb 06 11:43:09 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.6	cps
Sensitivity:	0.6061	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-098	
Tool Model:	P_RBT_2750	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	27.725	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	0.843	0.800	81.196	96.621	-0.245
CAL	0.720	-0.003				
5'	0.004	0.676	0.800	81.196	119.512	0.381
SUM						
S1	0.012	0.782	0.000	100.000	129.844	-1.522
S2	0.013	0.793	0.000	100.000	128.150	-1.636
S3	0.013	0.845	0.000	100.000	120.283	-1.589
S4	0.012	0.929	0.000	100.000	109.060	-1.299
S5	0.009	0.966	0.000	100.000	104.484	-0.906
S6	0.012	0.930	0.000	100.000	108.912	-1.261
S7	0.006	0.867	0.000	100.000	116.101	-0.716
S8	0.016	0.813	0.000	100.000	125.437	-2.036

Internal Reference Calibration, performed Tue Nov 07 10:59:54 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.720	-0.003	1.000	0.000

Air Zero Calibration, performed Sun Dec 31 20:52:40 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.002		0.000		0.001	
5'	-0.001		0.000		0.000	
SUM						
S1	-0.009		0.000		0.001	
S2	-0.005		0.000		0.001	
S3	-0.005		0.000		0.002	
S4	-0.005		0.000		0.002	
S5	-0.005		0.000		0.001	
S6	-0.005		0.000		0.002	
S7	-0.006		0.000		0.001	
S8	-0.004		0.000		0.001	



Company	TEP Rocky Mountain LLC
Well	Ware SR 512-12
Field	Rulison
County	Garfield
State	Colorado