
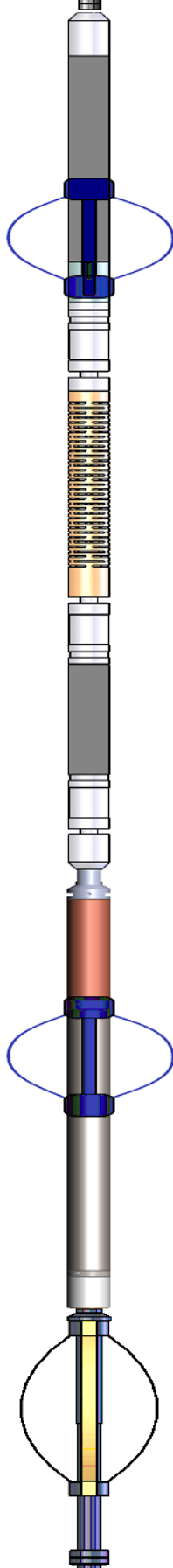
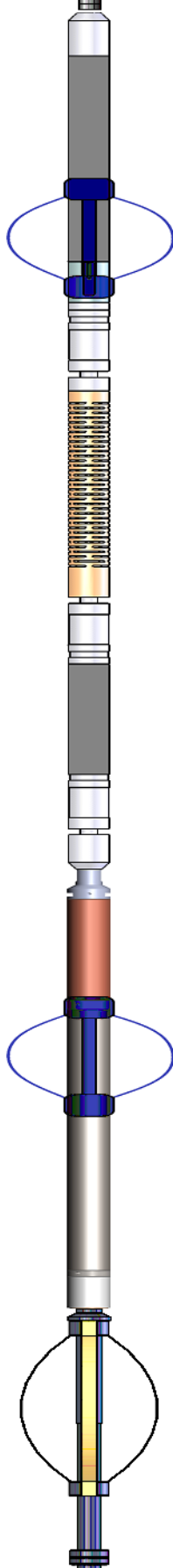
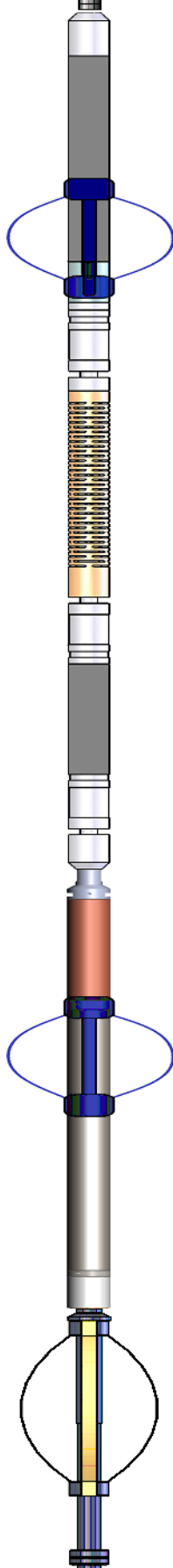


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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
Log ran as per customer request Depth referenced to Ground Level at 0 FT Adjusted -7 FT to correlate with Ground Level Gauge Ring/Junk Basket ran to 7439 FT RBP Set @ 6014 FT Log ran with 2800 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations Thank you for choosing Reliance Oilfield Services, LLC!

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	3.60

		Fishing Neck								
TEMP	14.16		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00				
WVFS8	11.93		Probe Radii-2750 RBT (071220) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00				
WVFS7	11.93									
WVFS6	11.93									
WVFS5	11.93									
WVFS4	11.93									
WVFS3	11.93									
WVFS2	11.93									
WVFS1	11.93									
WVFCAL	11.93									
WVF3FT	11.93									
WVF5FT	10.93									
CCL\$2	6.80		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00				
CCL\$1	6.80		Probe GR-CCL-2750 6PB (FW1810-001) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00				
GR	5.46									
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00				
LOCTIM	0.00									
UTCTIM	0.00									
		Dataset: 0512351419_oxy_shake 11-3hz_rbl_10-18-21.db: field/well/main/pass1.1 Total length: 18.10 ft Total weight: 203.60 lb O.D.: 3.25 in								

Gamma Ray Calibration Report

Serial Number: FW1810-001
 Tool Model: 2750 6PB
 Performed: Mon Oct 19 14:19:51 2020

Calibrator Value: 637.0 GAPI

Background Reading: 100.1 cps
 Calibrator Reading: 1264.5 cps

Sensitivity: 0.5471 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 071220
 Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 2.128 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.642	0.800	71.921	112.158	-0.059
CAL	0.654	0.655				
5'	0.010	0.543	0.800	71.921	133.345	-0.487
SUM						
S1	0.012	0.621	0.000	100.000	164.070	-1.946
S2	0.008	0.608	0.000	100.000	166.922	-1.407
S3	0.008	0.617	0.000	100.000	164.312	-1.309
S4	0.009	0.640	0.000	100.000	158.236	-1.350
S5	0.009	0.662	0.000	100.000	153.014	-1.335
S6	0.009	0.654	0.000	100.000	155.042	-1.406
S7	0.008	0.658	0.000	100.000	153.762	-1.236
S8	0.007	0.638	0.000	100.000	158.621	-1.180

Air Zero Calibration, performed Fri Oct 15 12:32:36 2021:

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

Temperature Calibration Report

Serial Number: 071220
 Tool Model: 2750 RBT

Tool Model: 2750 RBL
Performed: Mon Oct 19 14:19:51 2020

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	

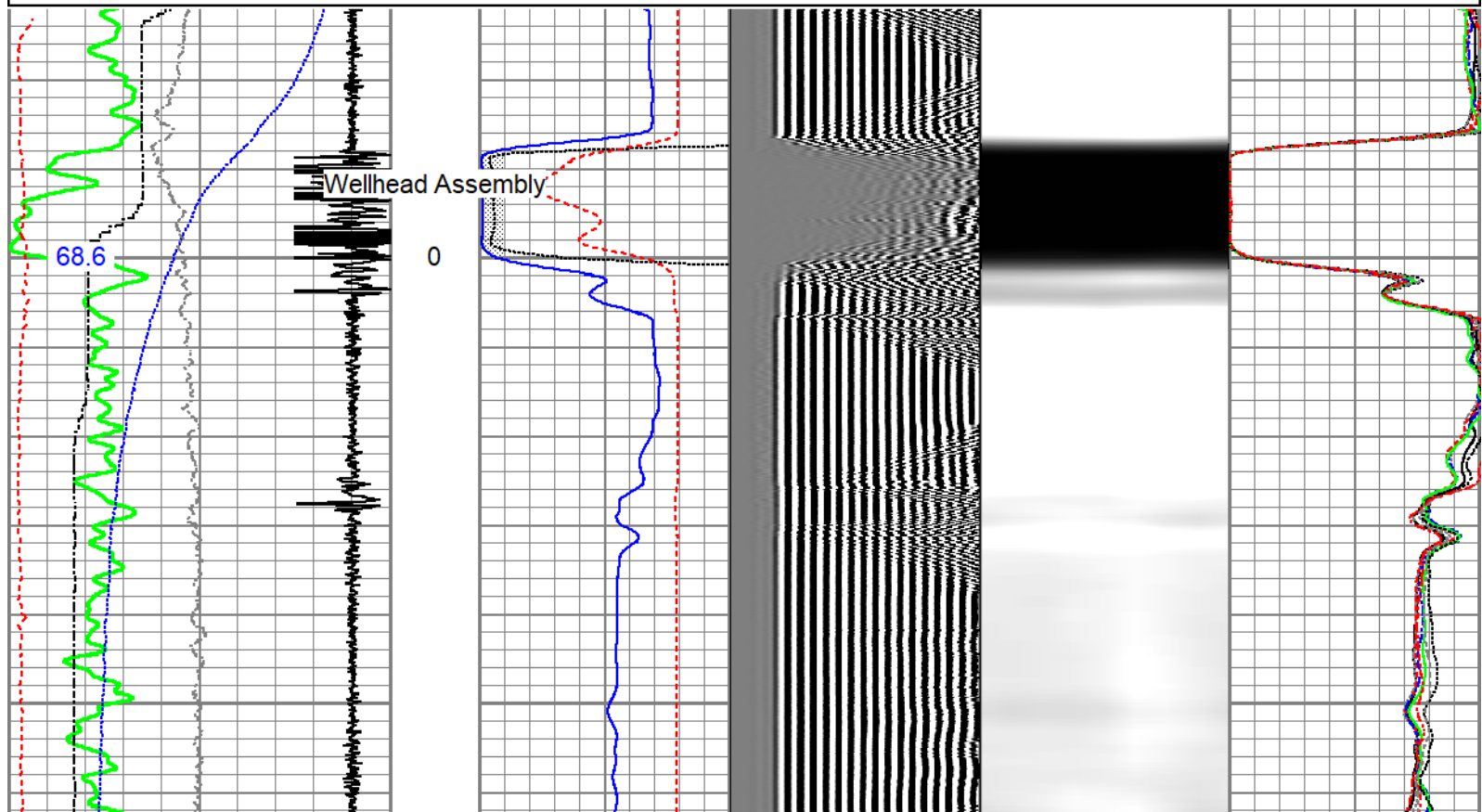


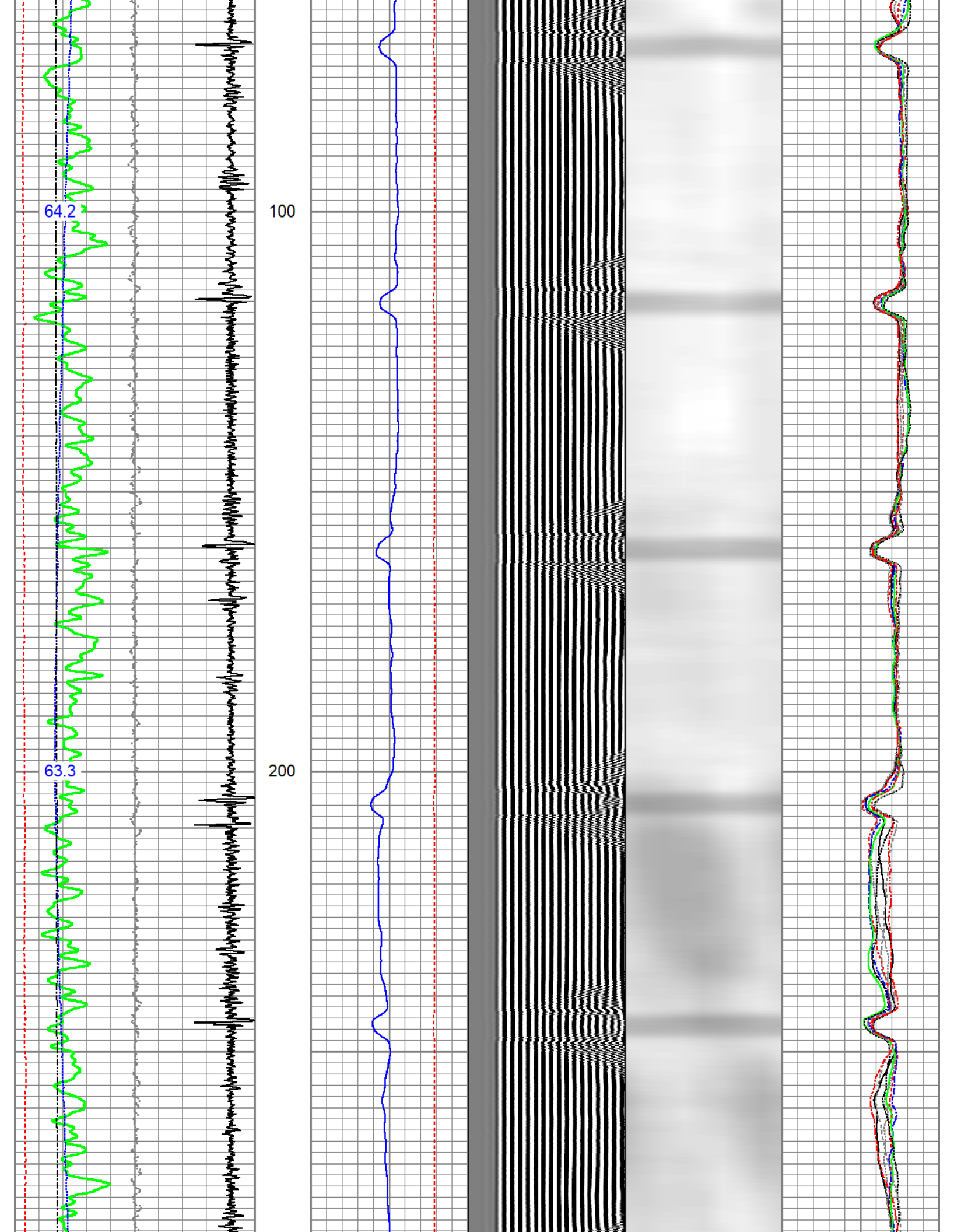
Main Pass

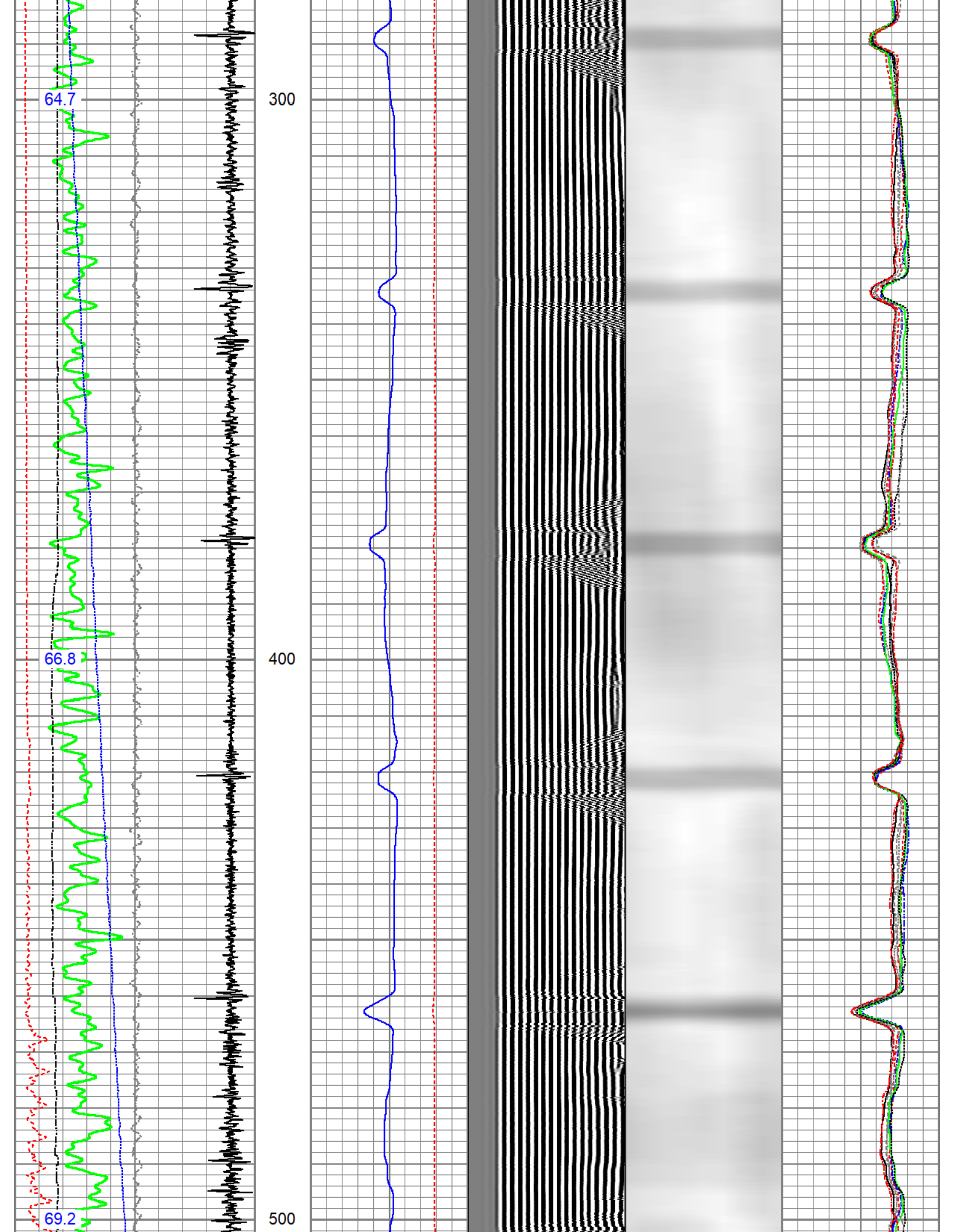
Recorded With 2800 PSI Surface Induced Pressure

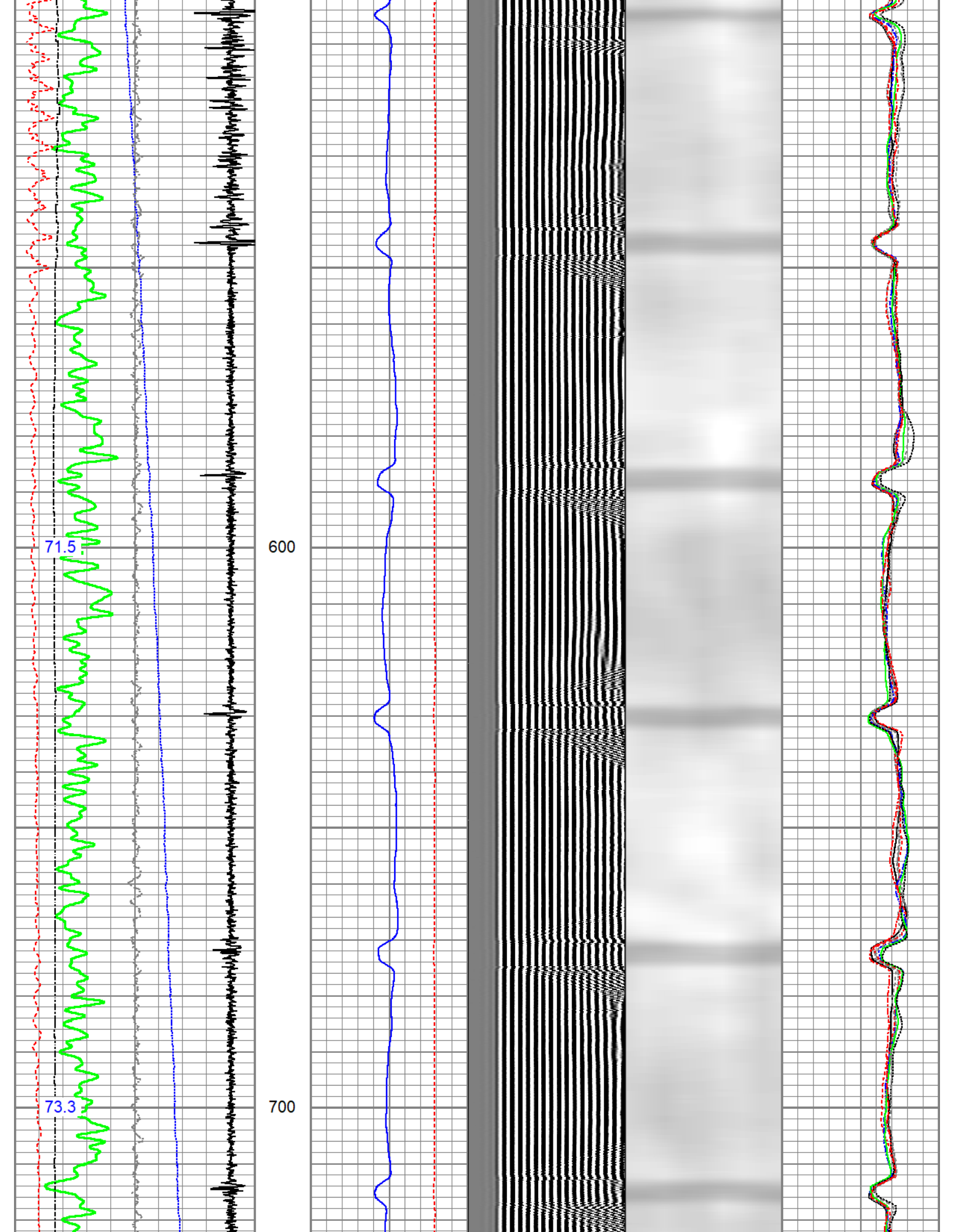
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Dataset Pathname	main/pass1.1
Presentation Format	edge_rbl
Dataset Creation	Tue Oct 19 10:36:51 2021
Charted by	Depth in Feet scaled 1:240

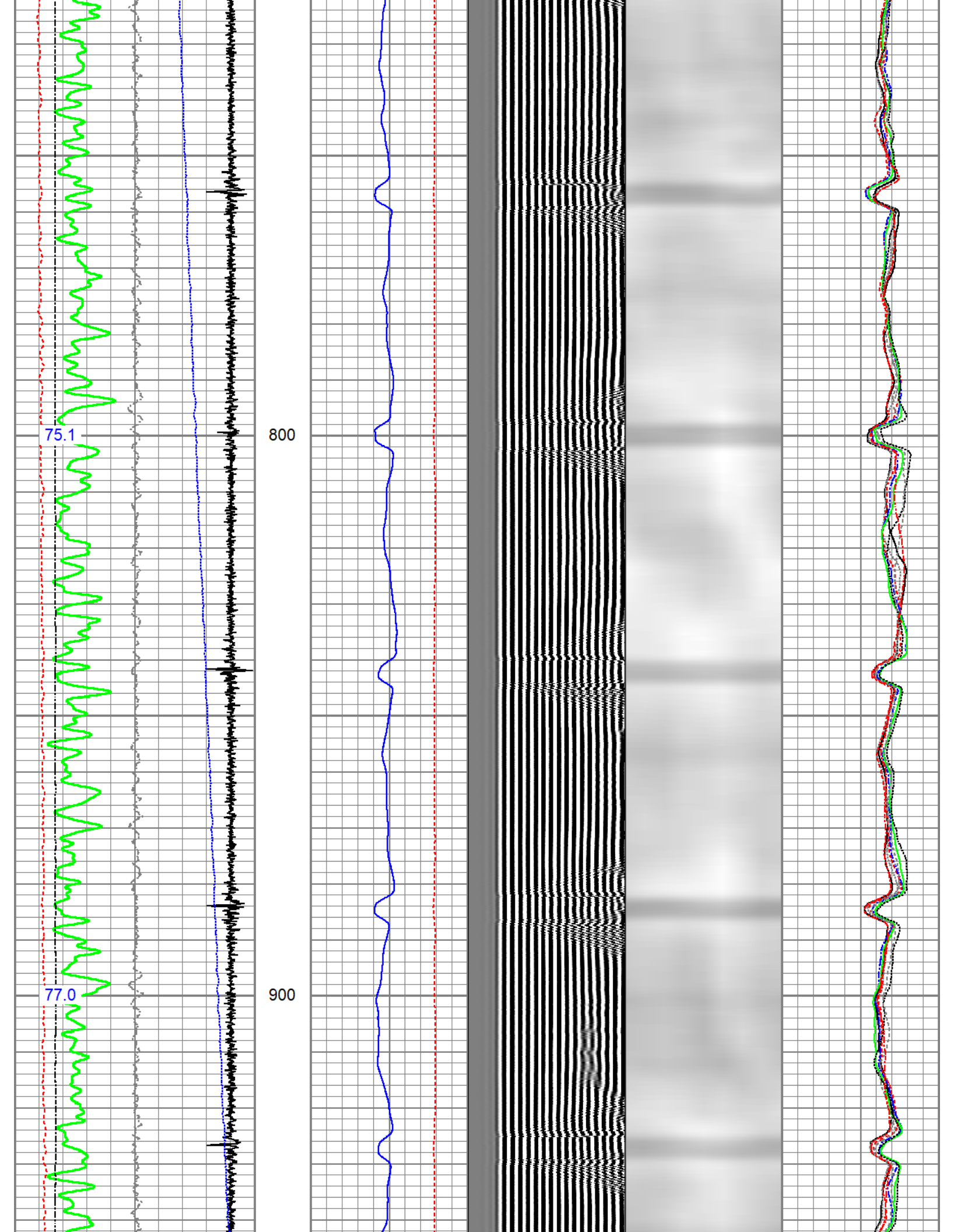
0	Gamma Ray (GAPI)	120	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	0 (mV) 100	200 (usec) 1200		0	AMP S2	100
0	Temperature (degF)	20	3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150	0 (mV) 20			0	AMP S4	100
0	Line Tension (lb)	2000	3' Travel Time			0	AMP S5	100
	Differential Temperature		650 (usec) 150			0	AMP S6	100
-2	(degF)	2				0	AMP S7	100
Temperature						0	AMP S8	100
(degF)								

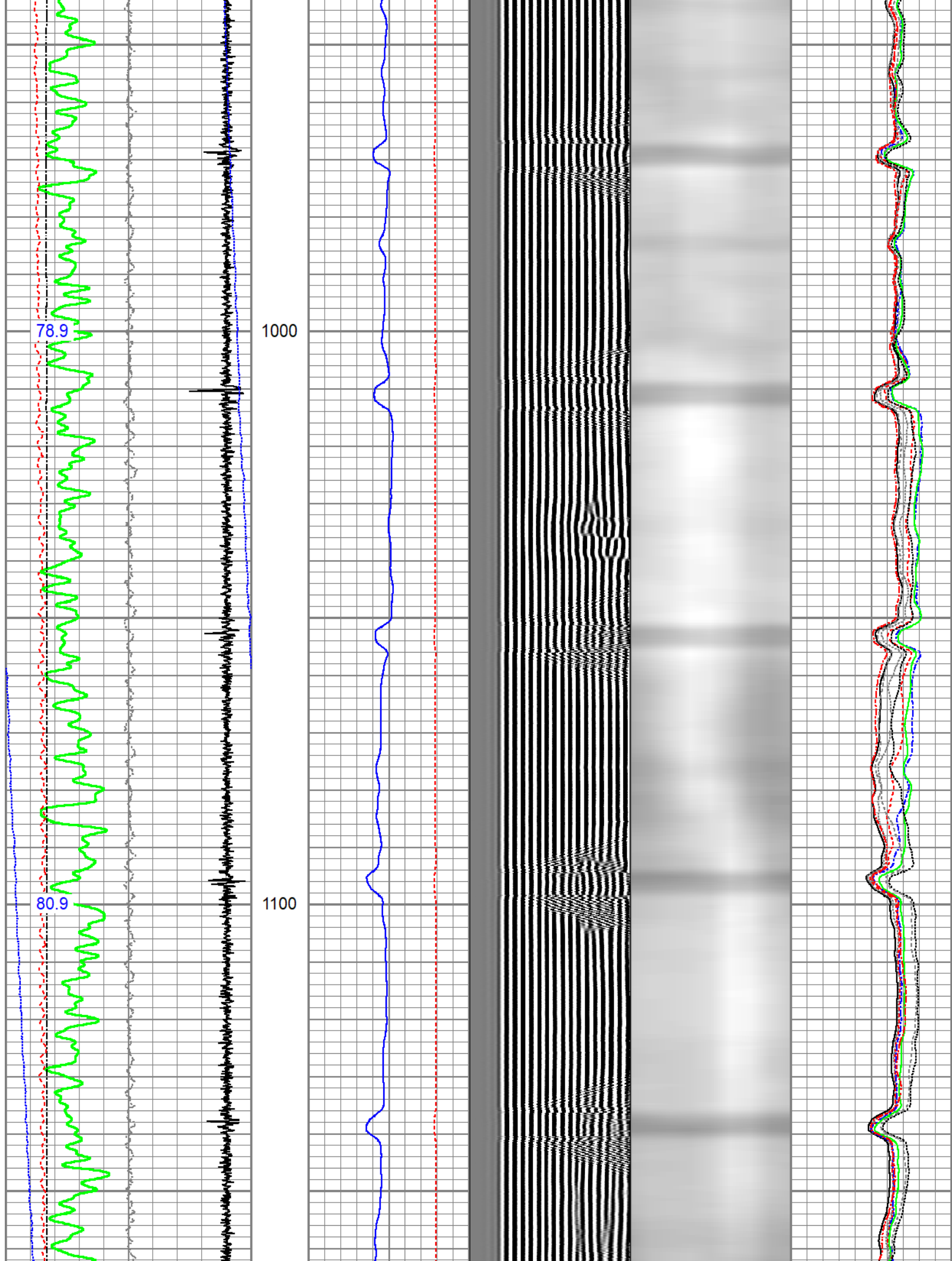


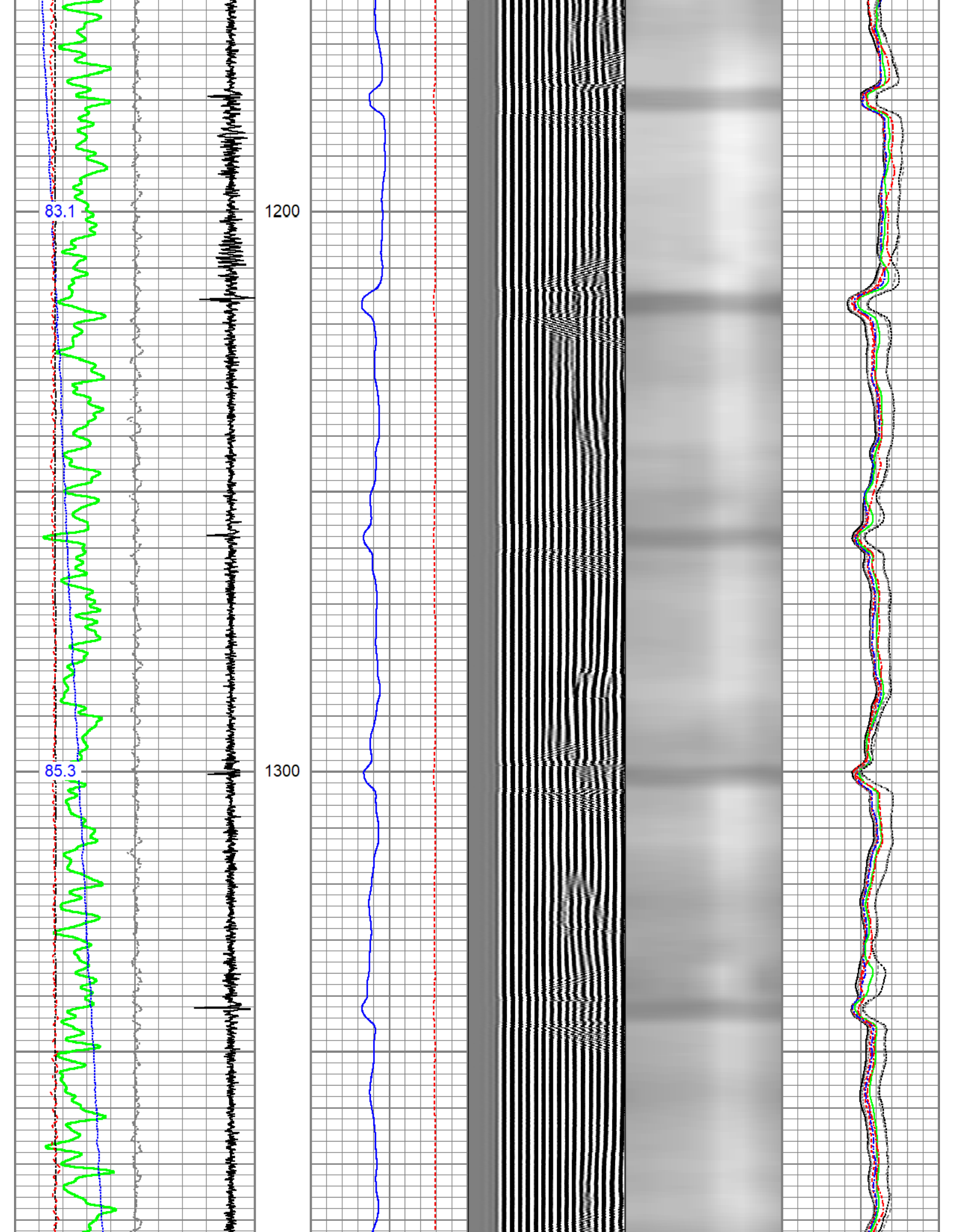


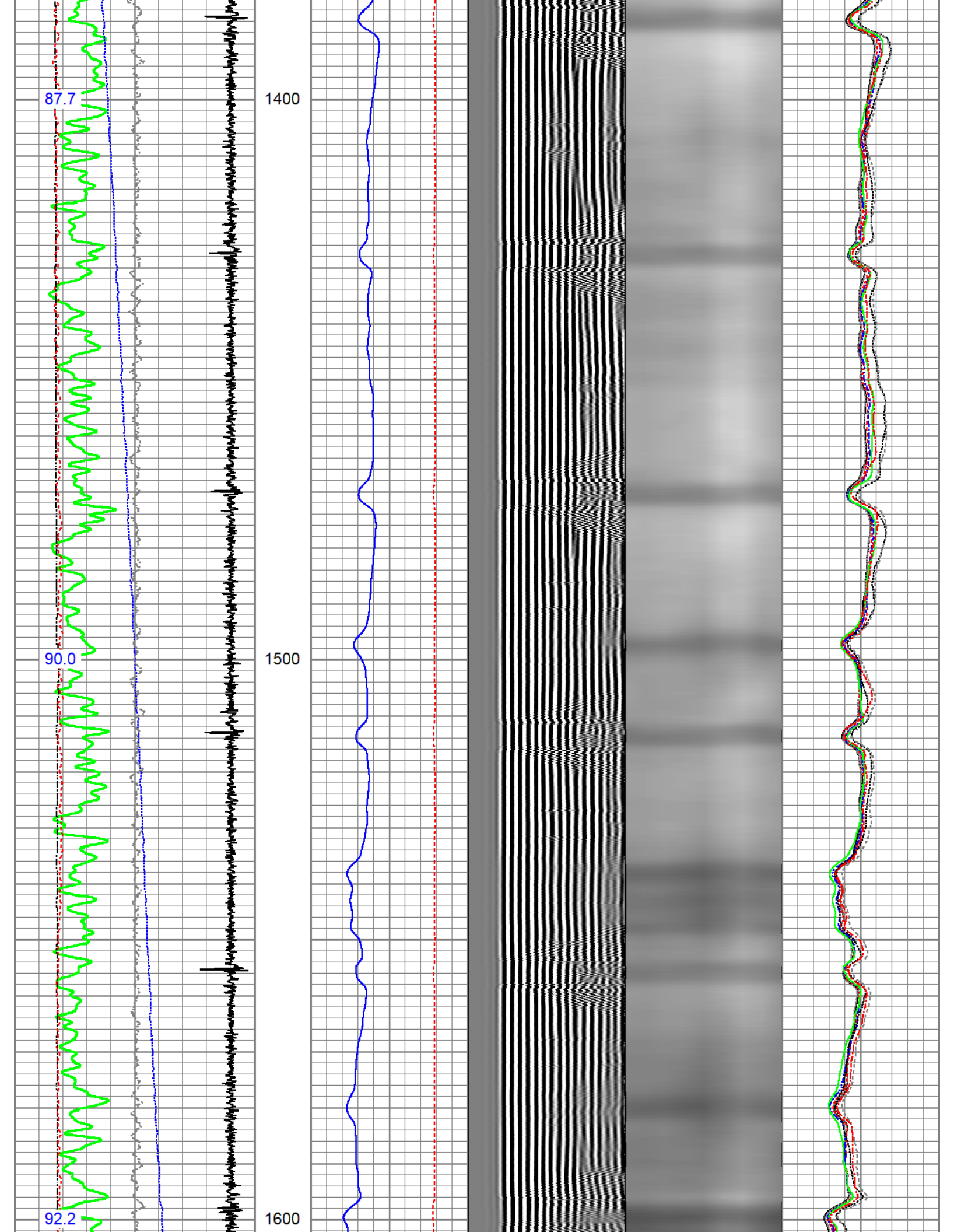


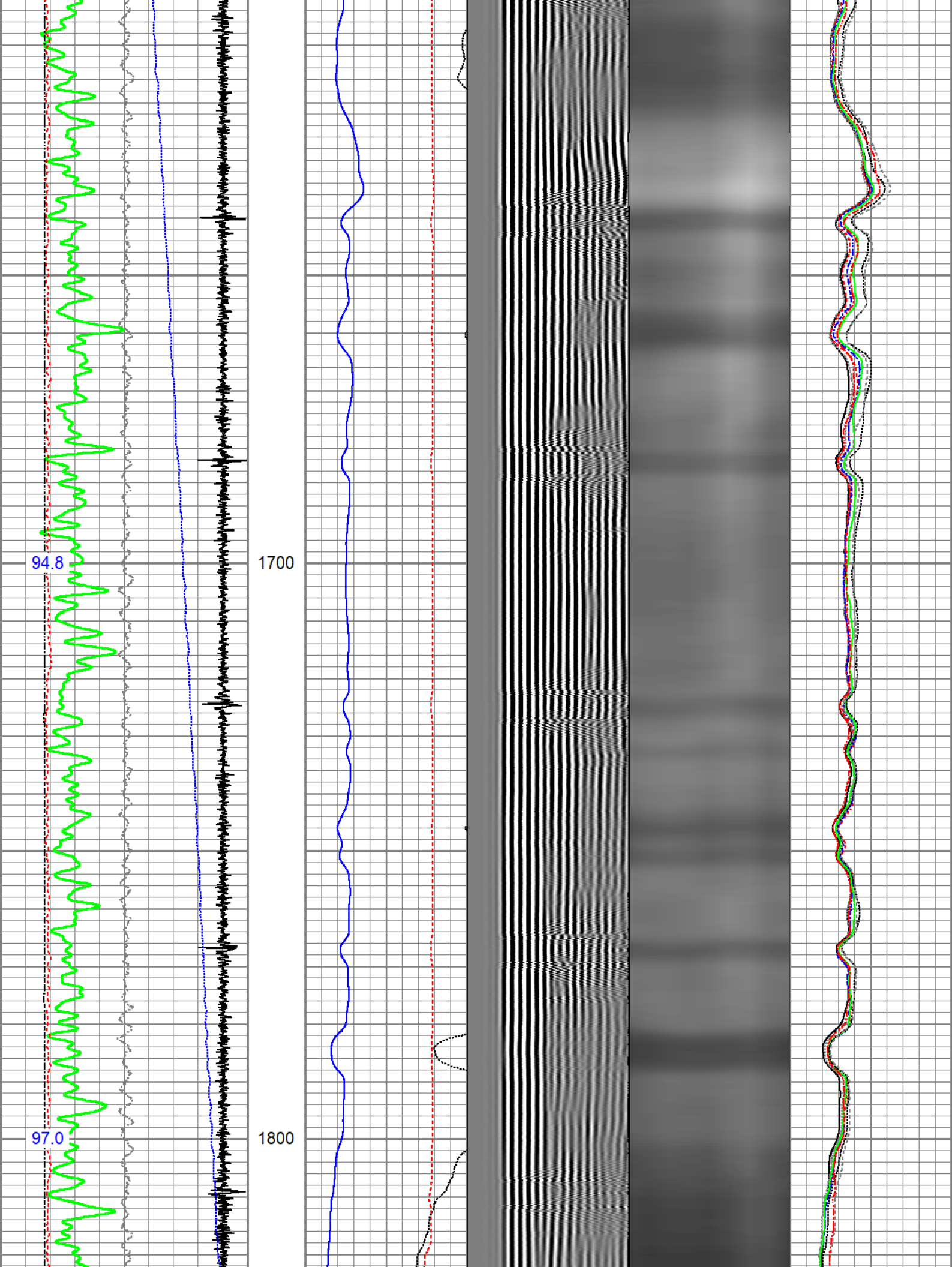


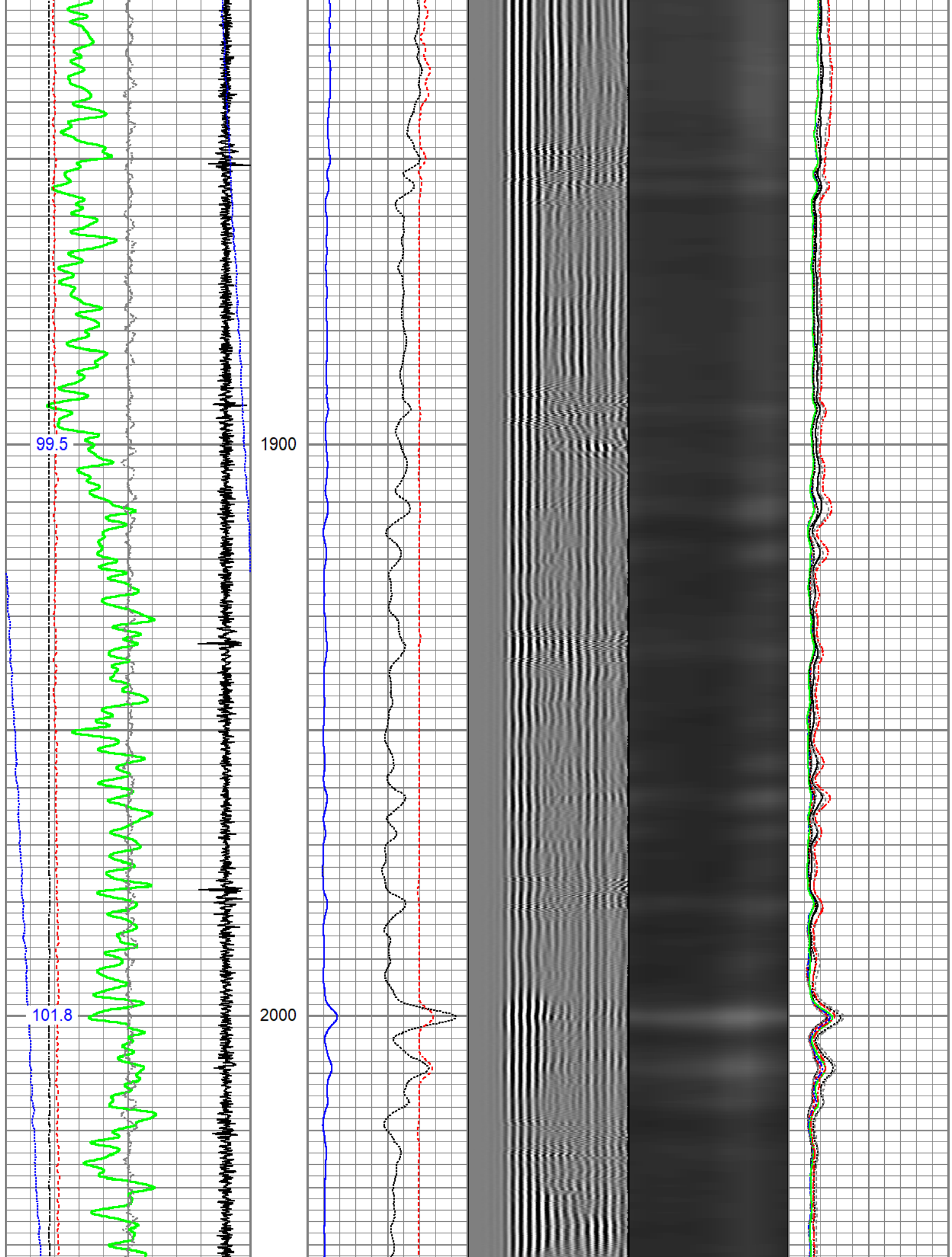


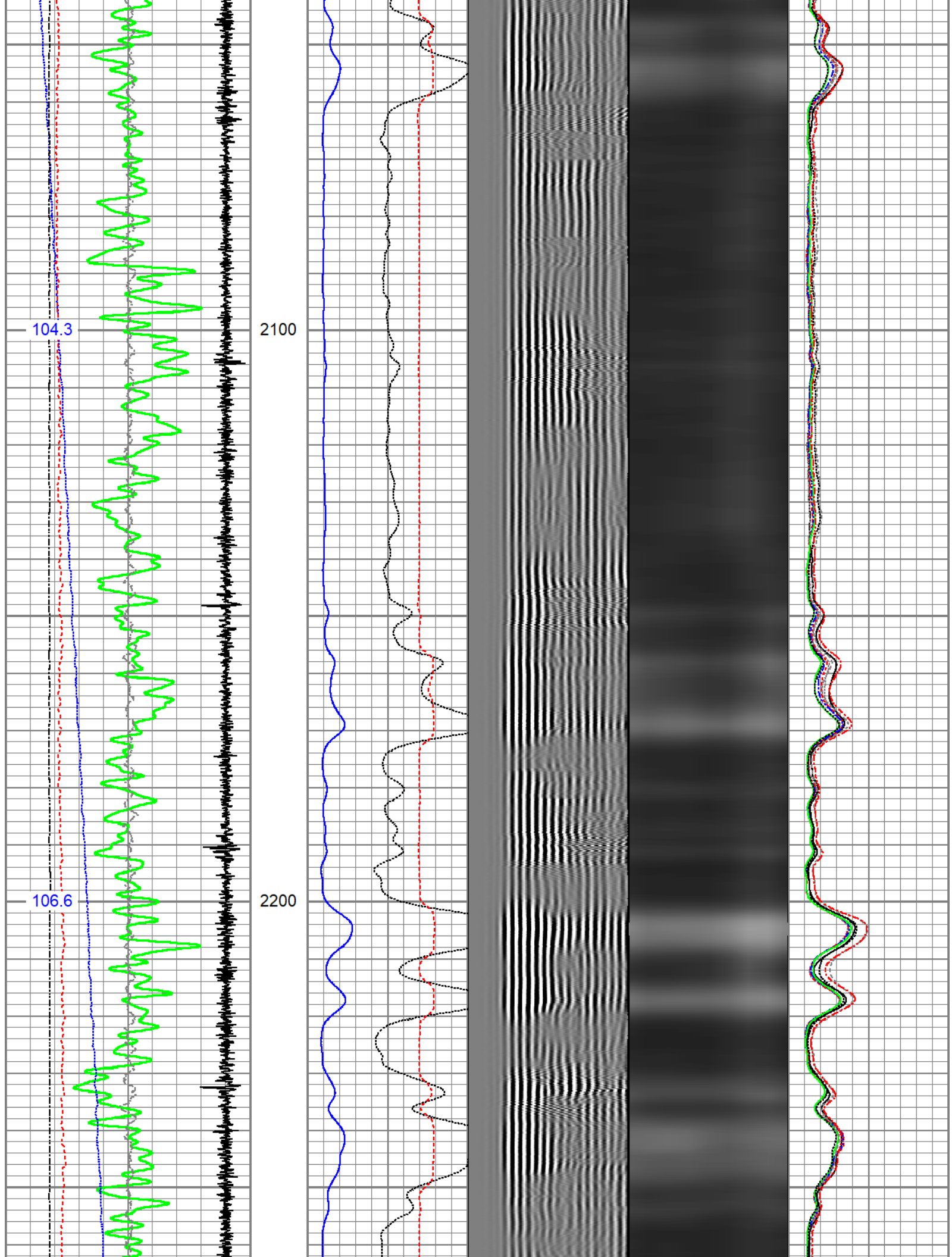


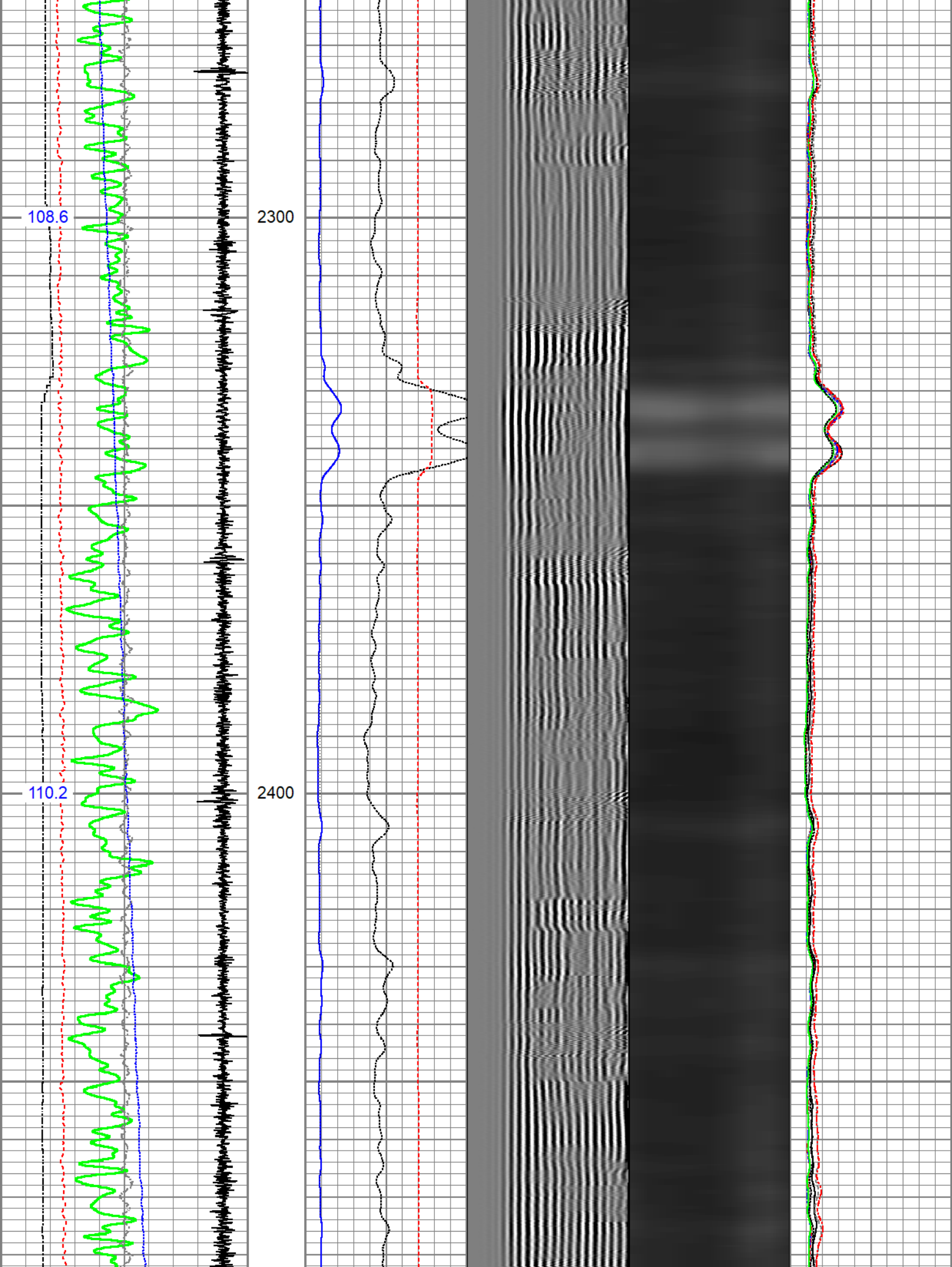


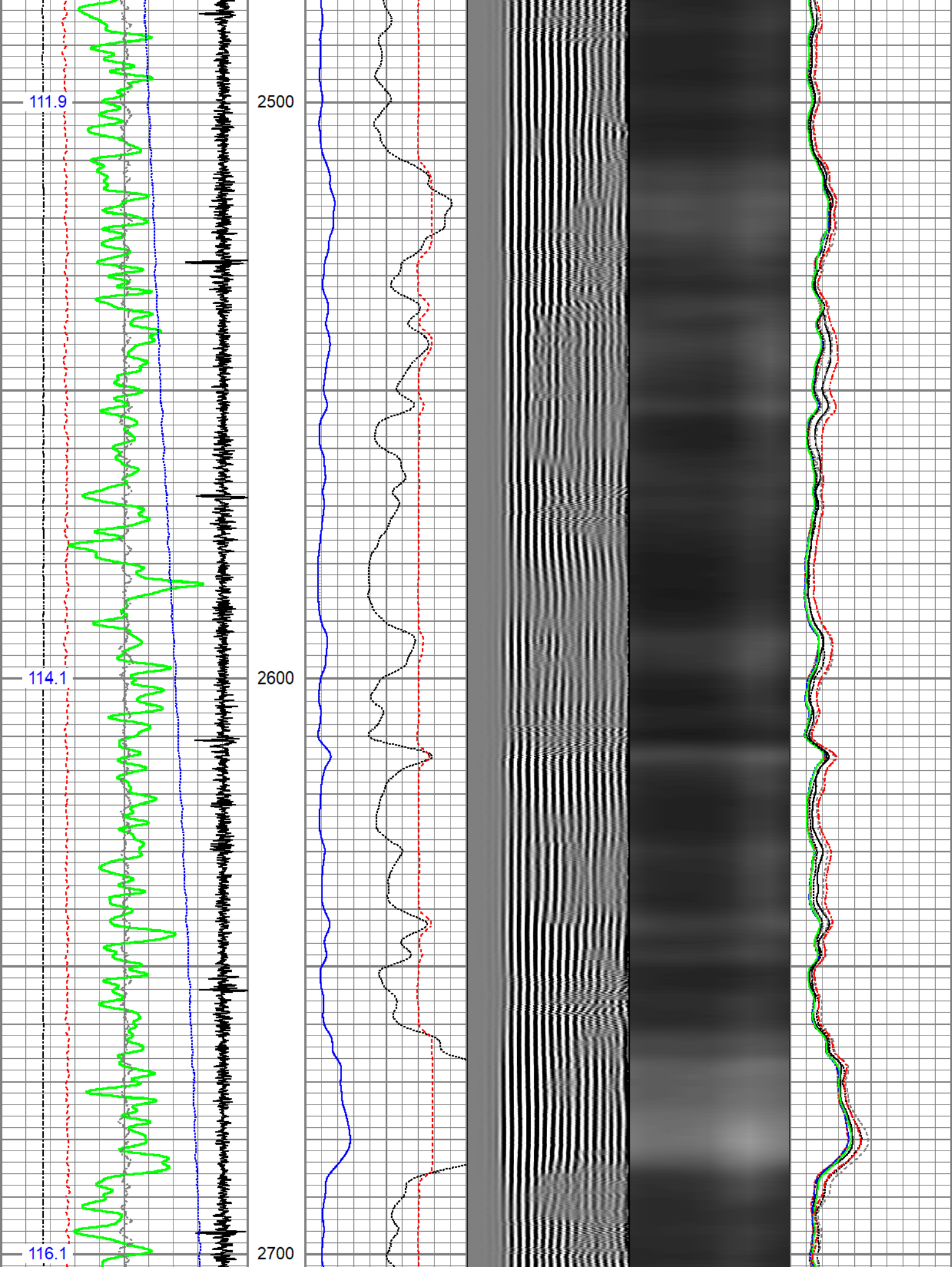


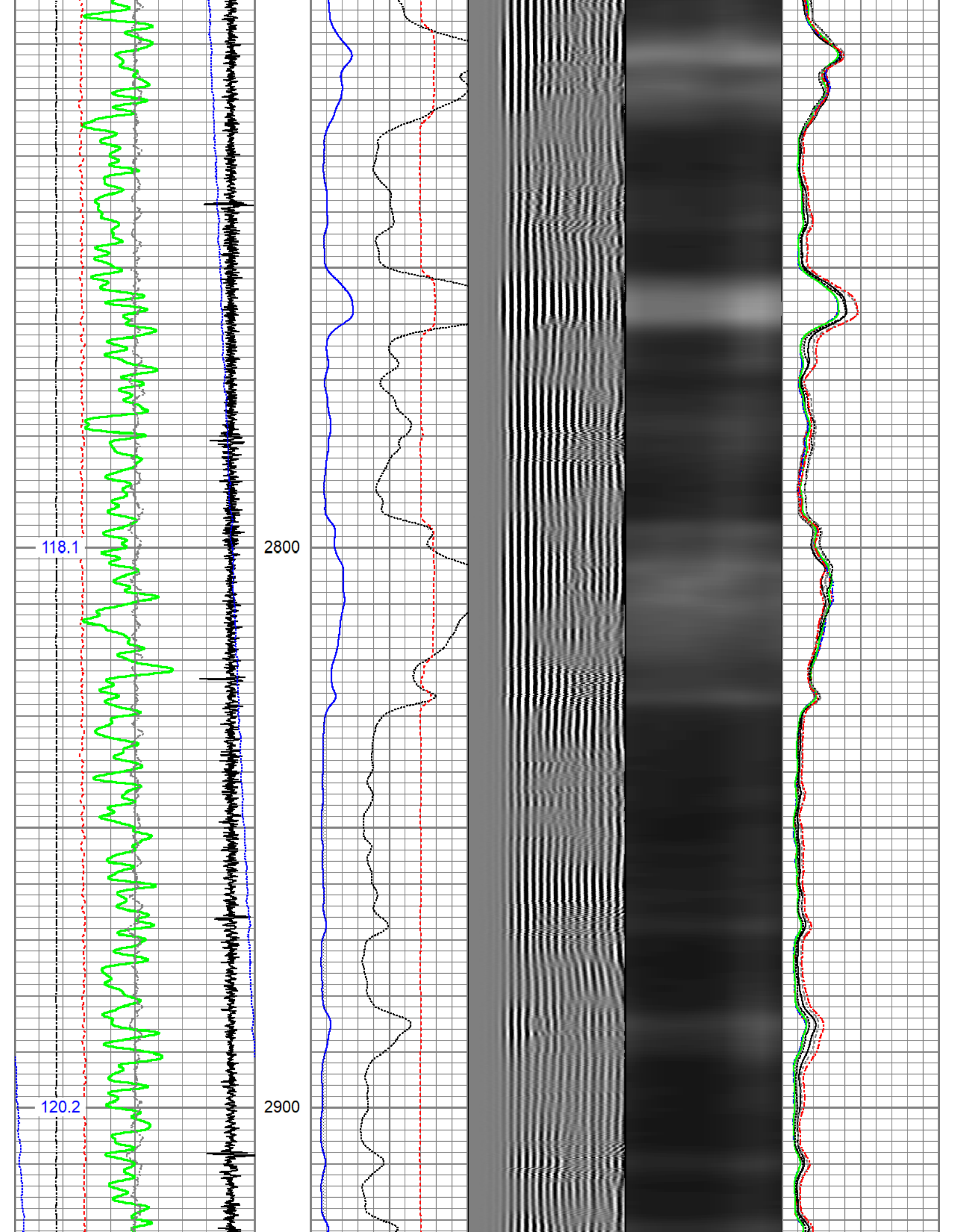


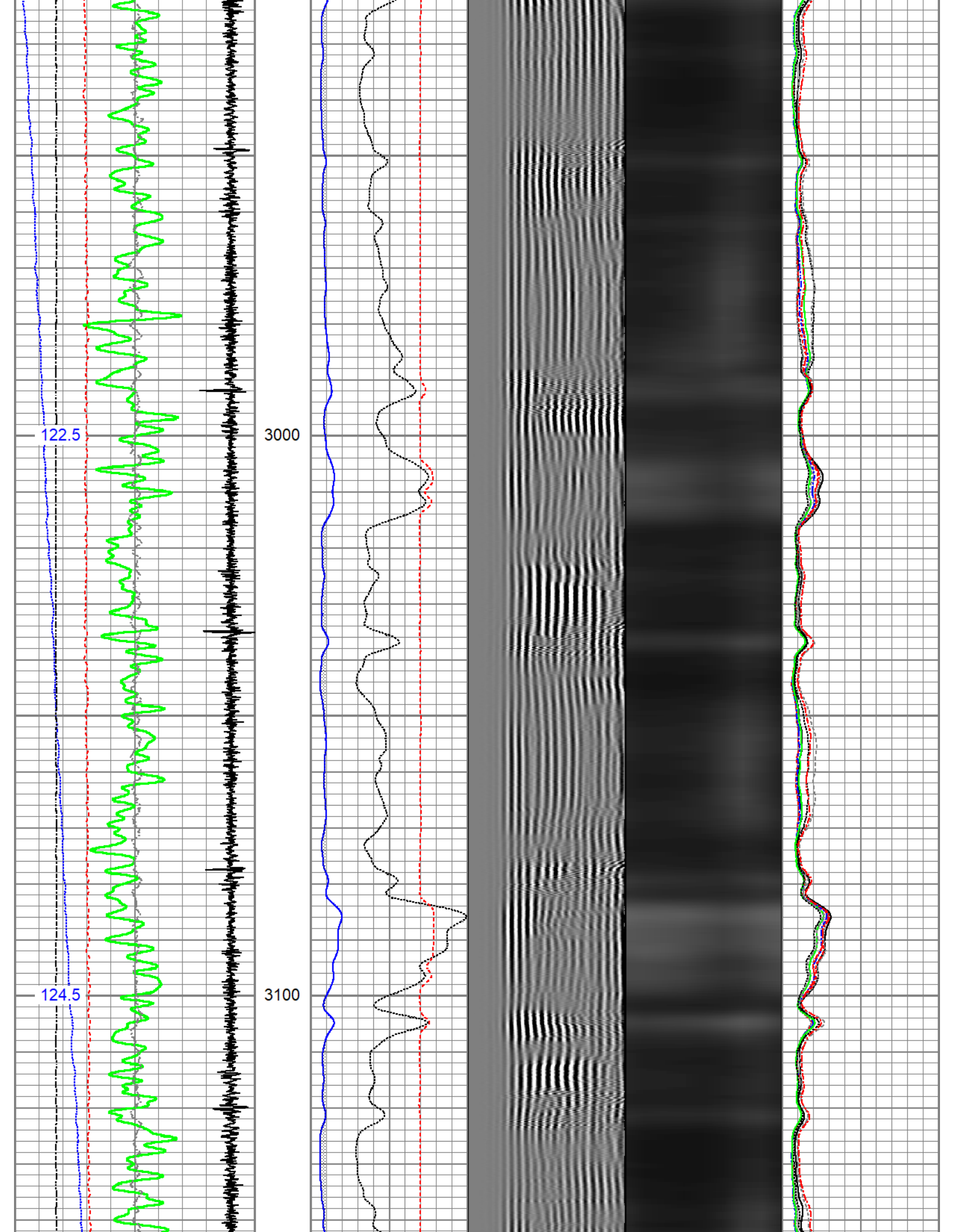


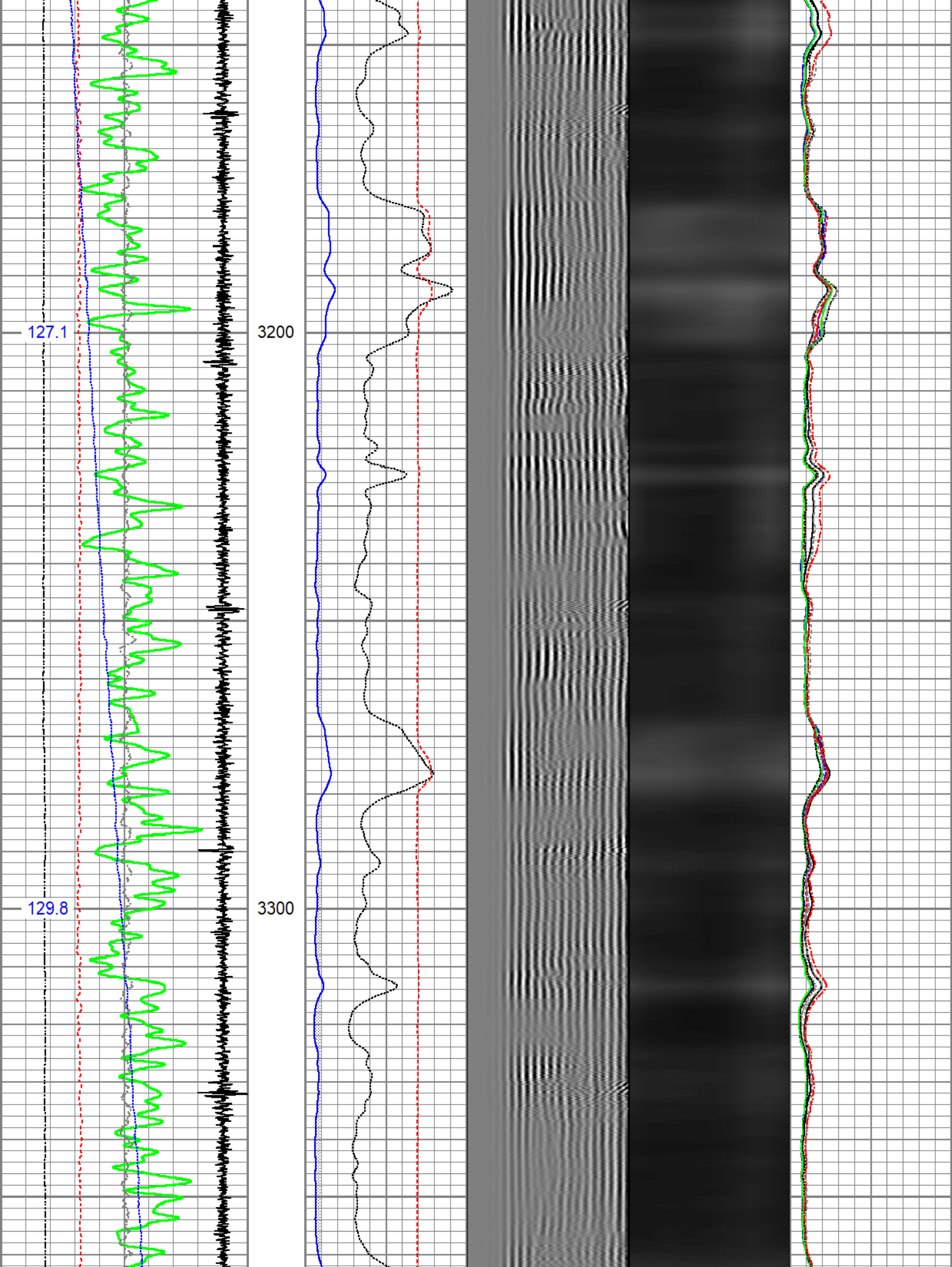


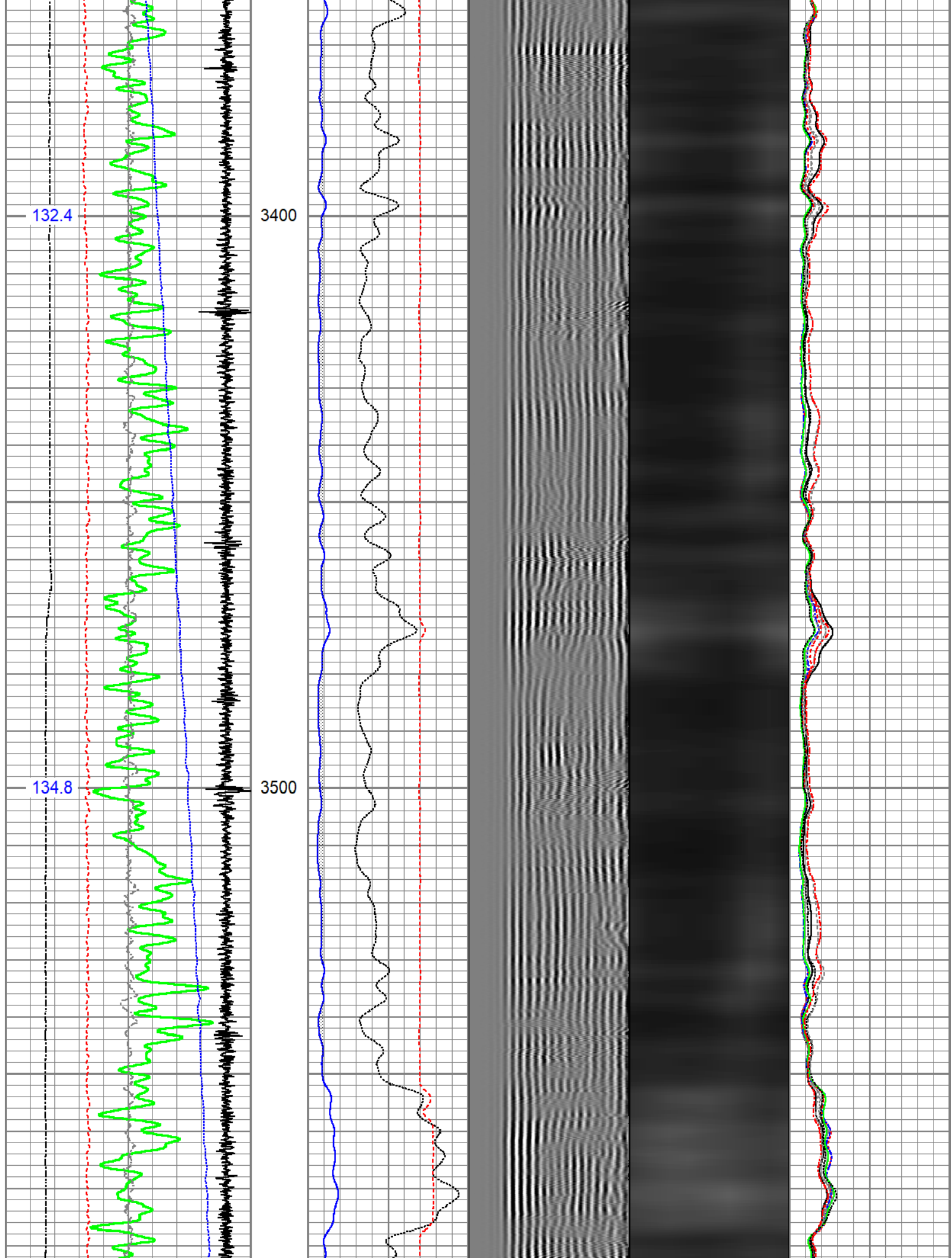


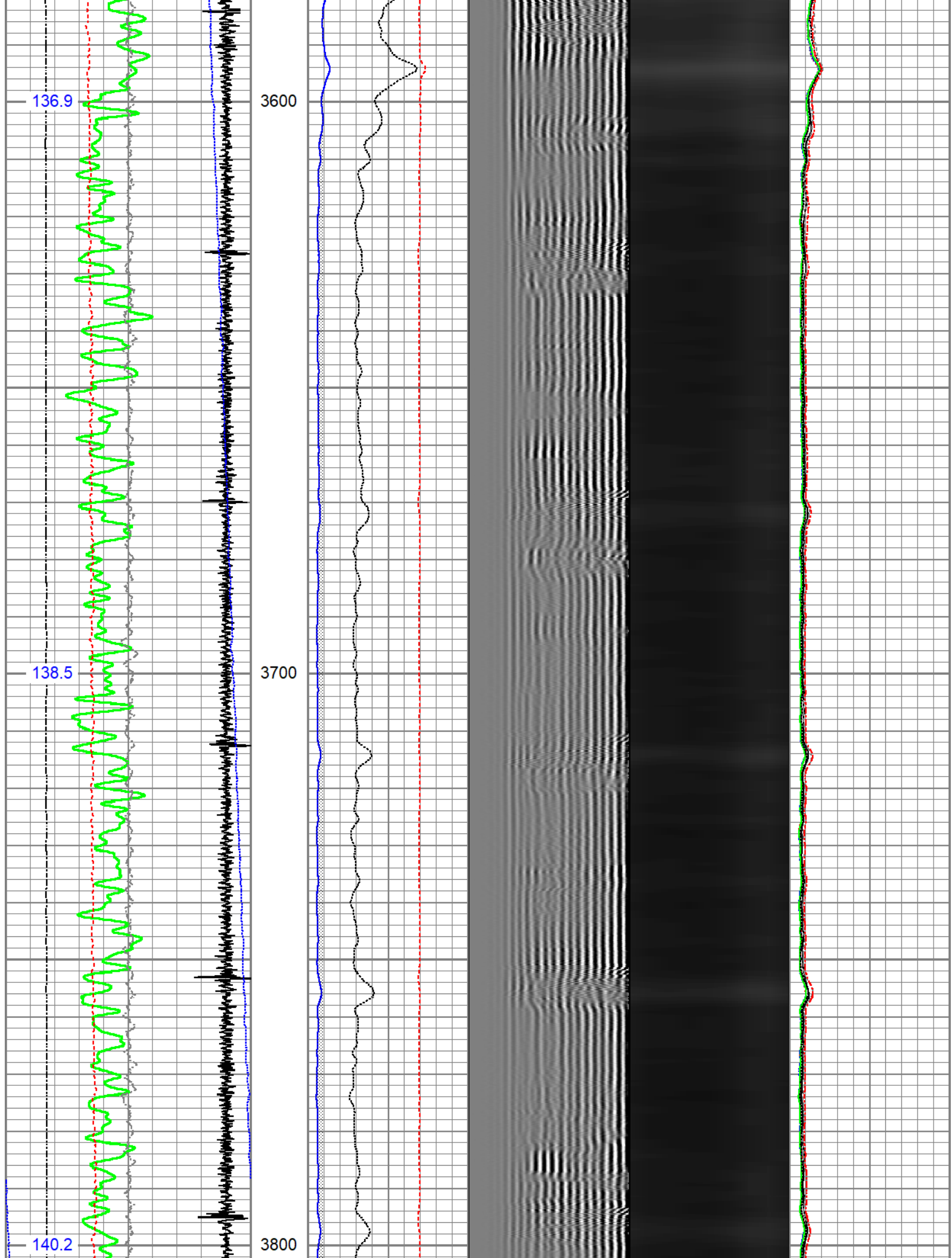


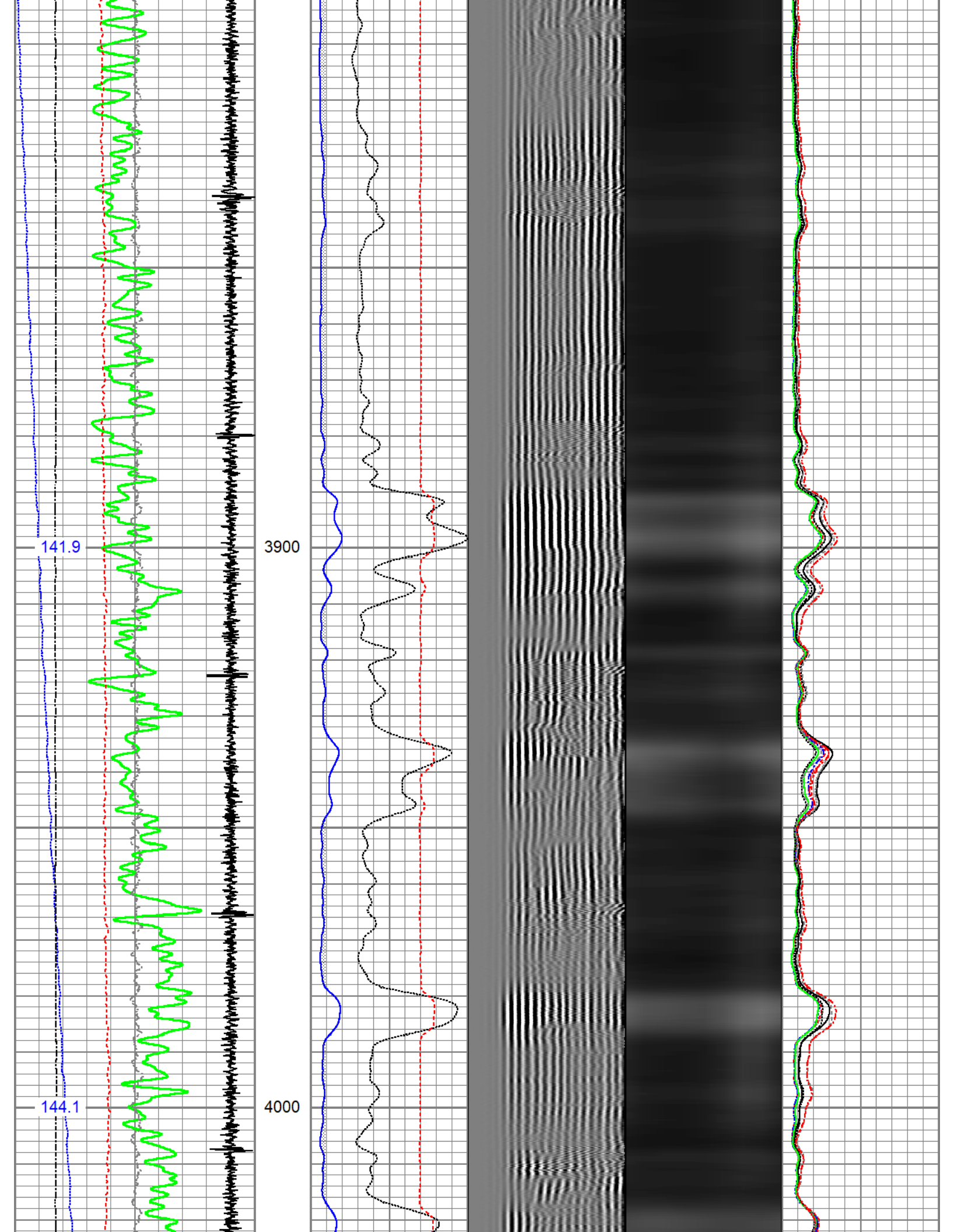


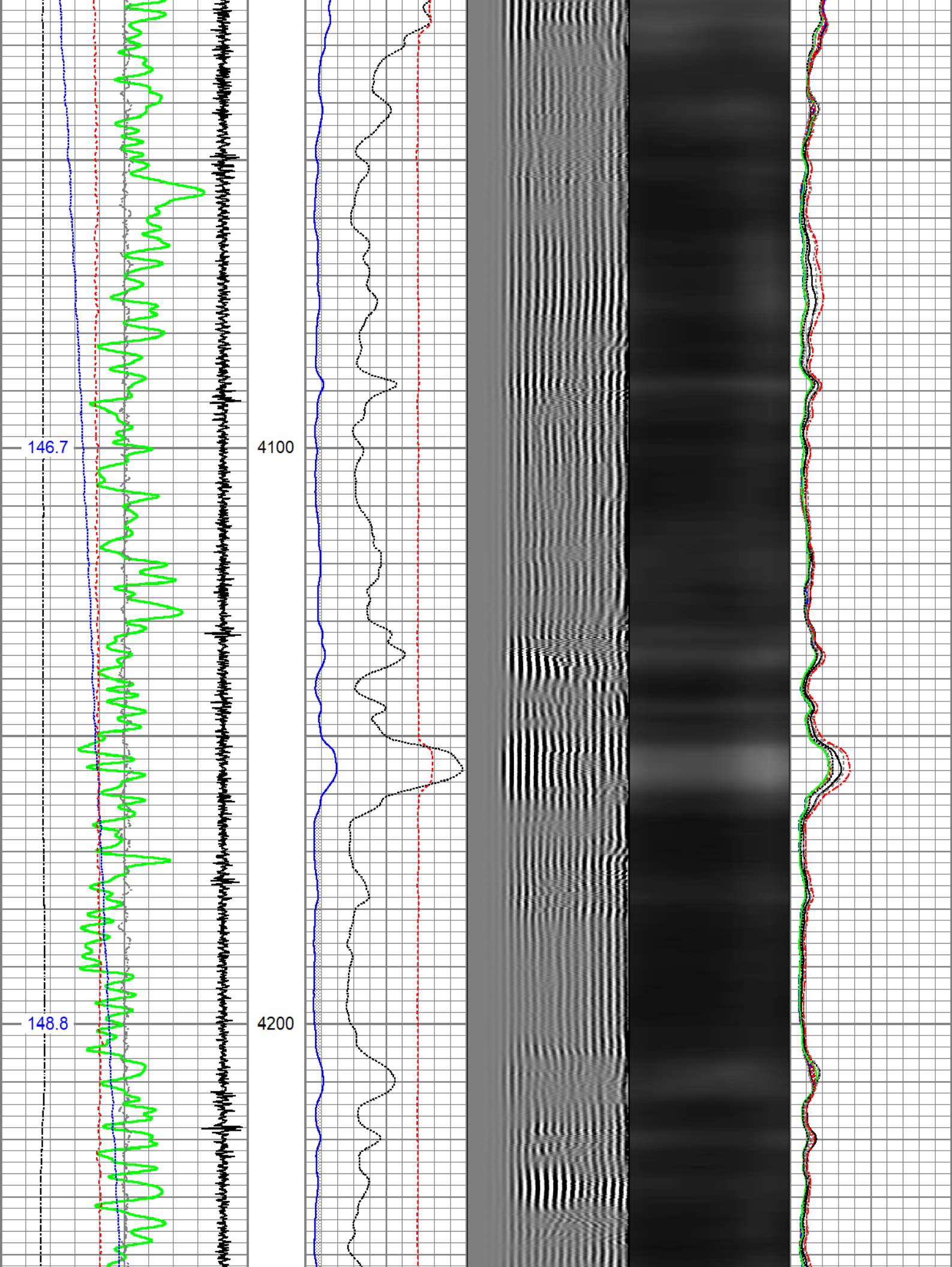


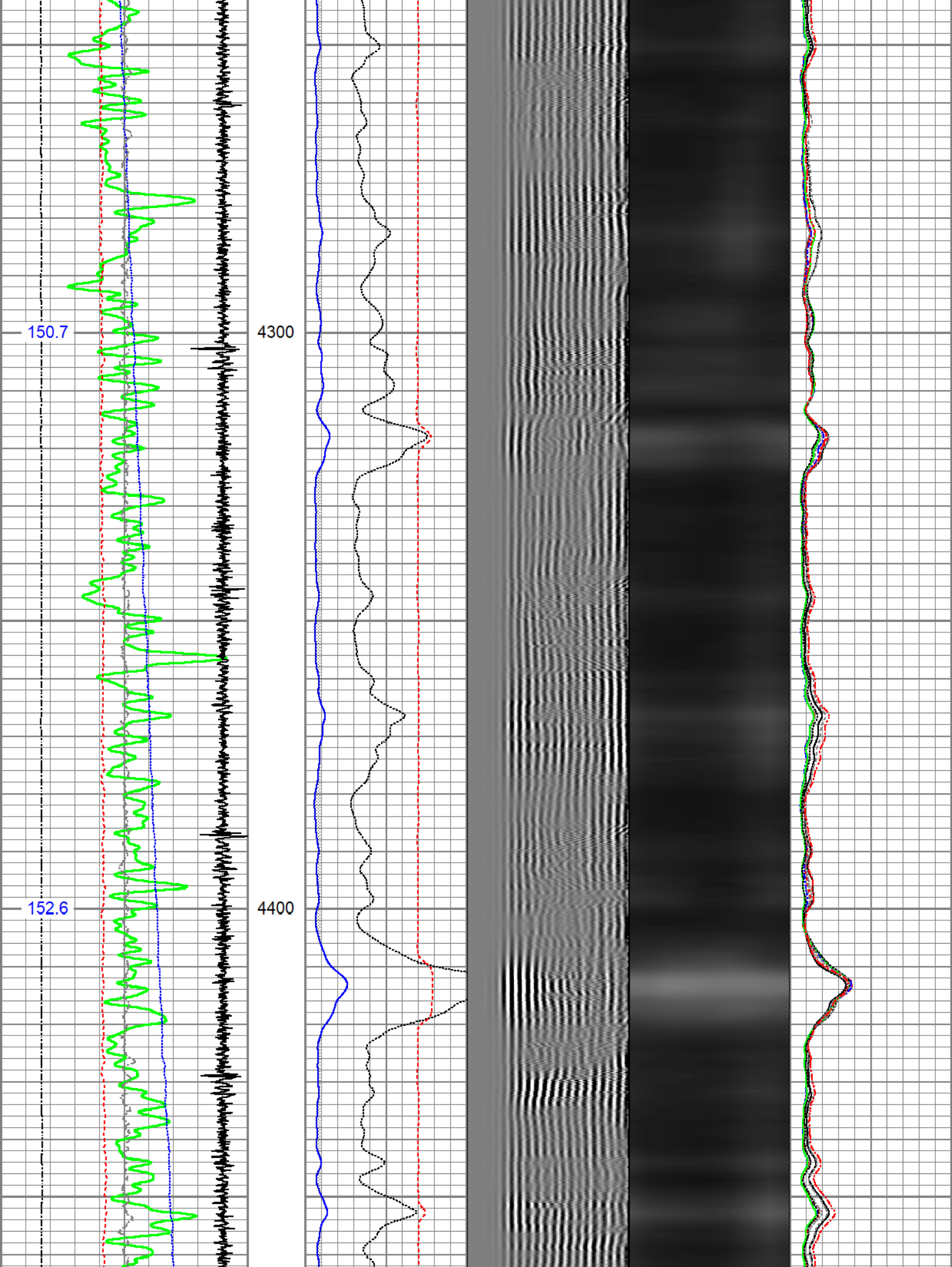


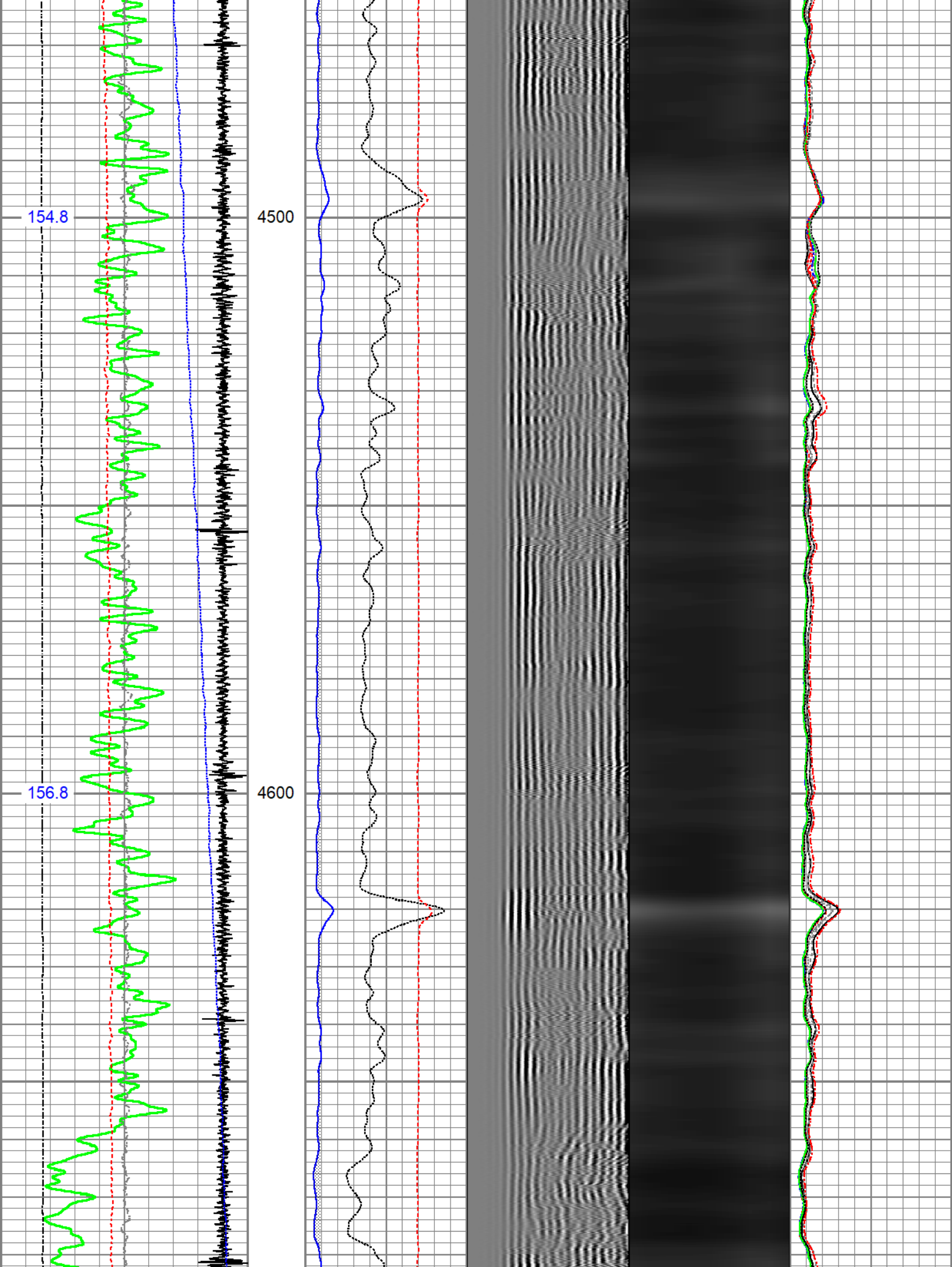


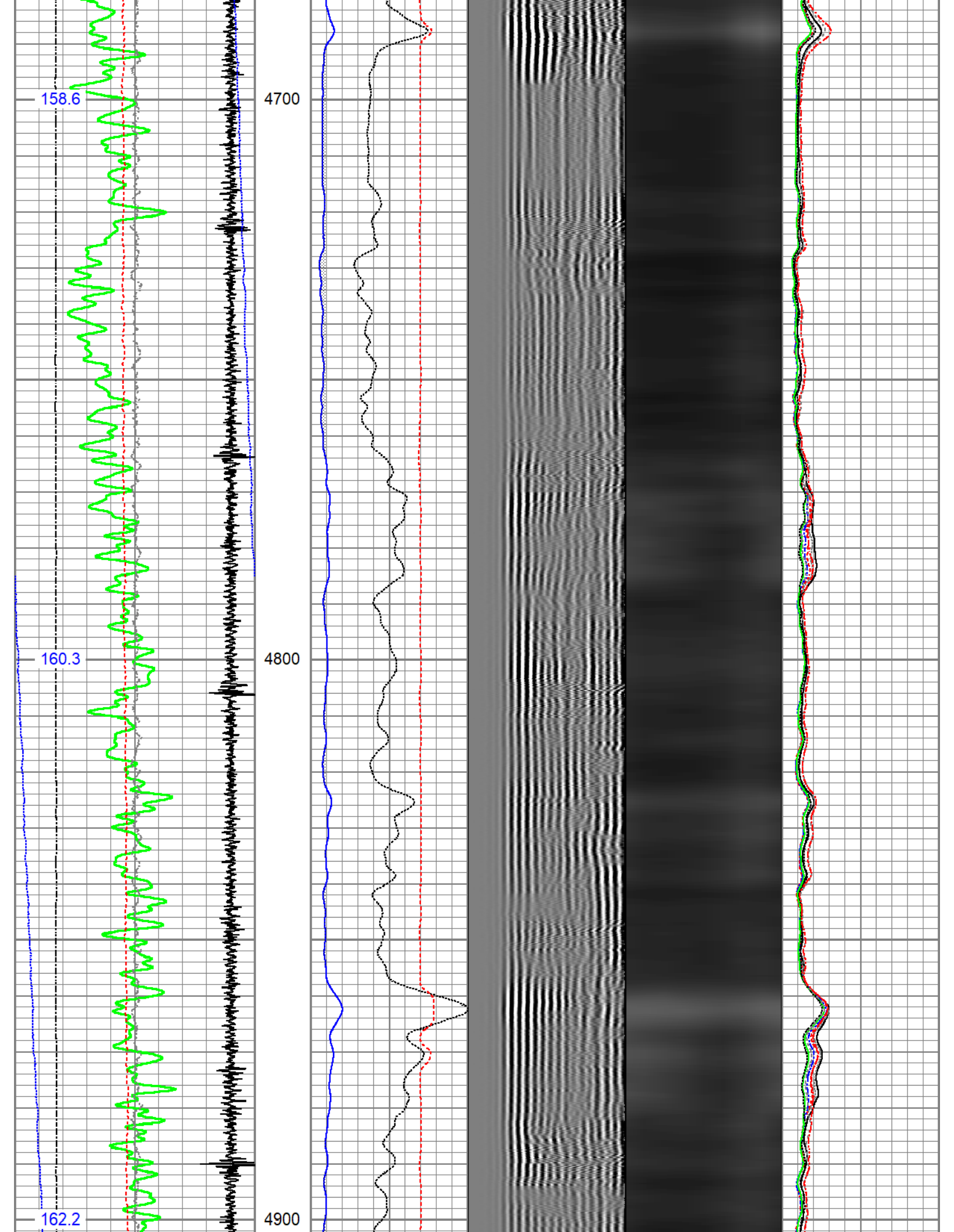


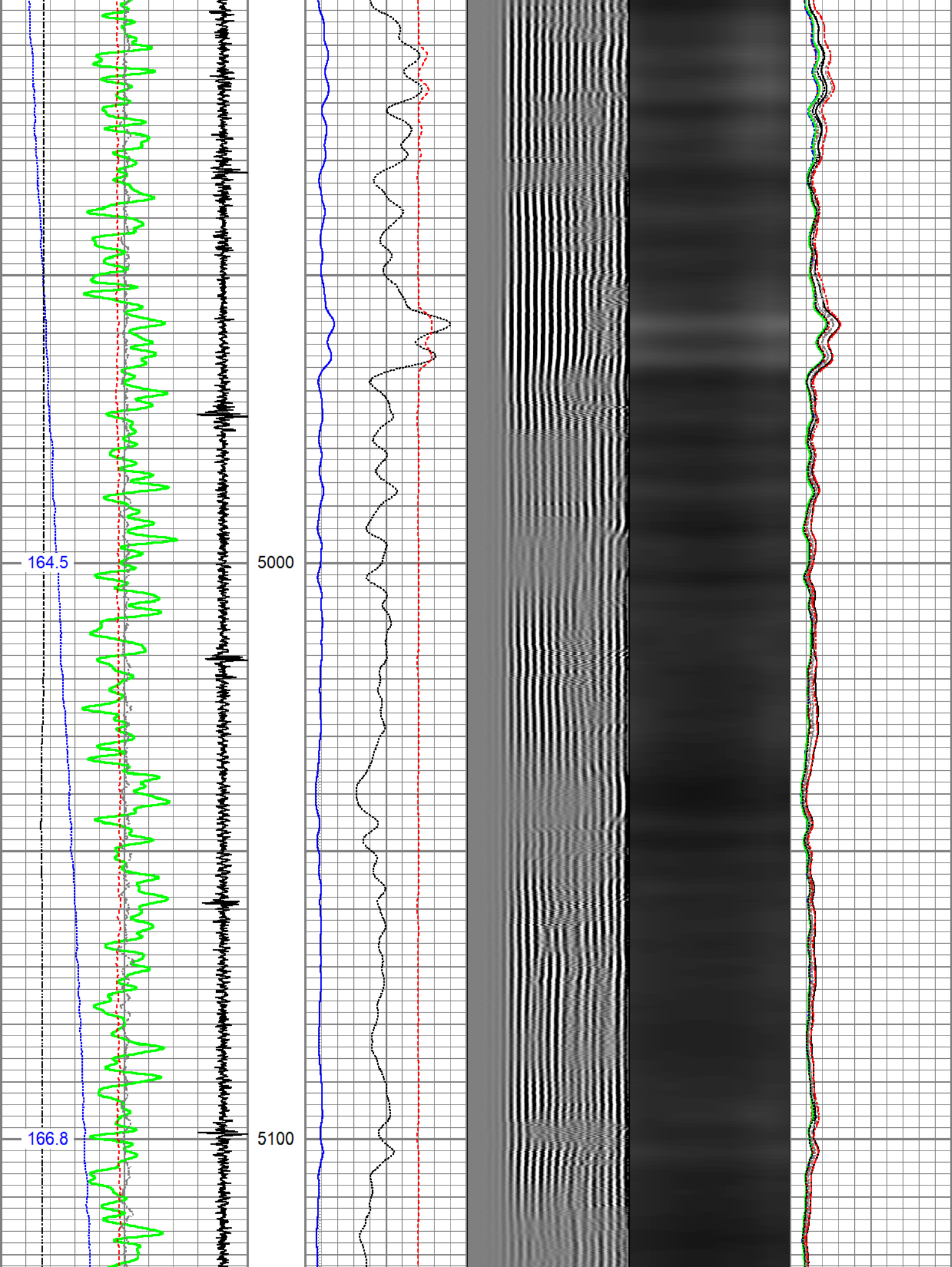


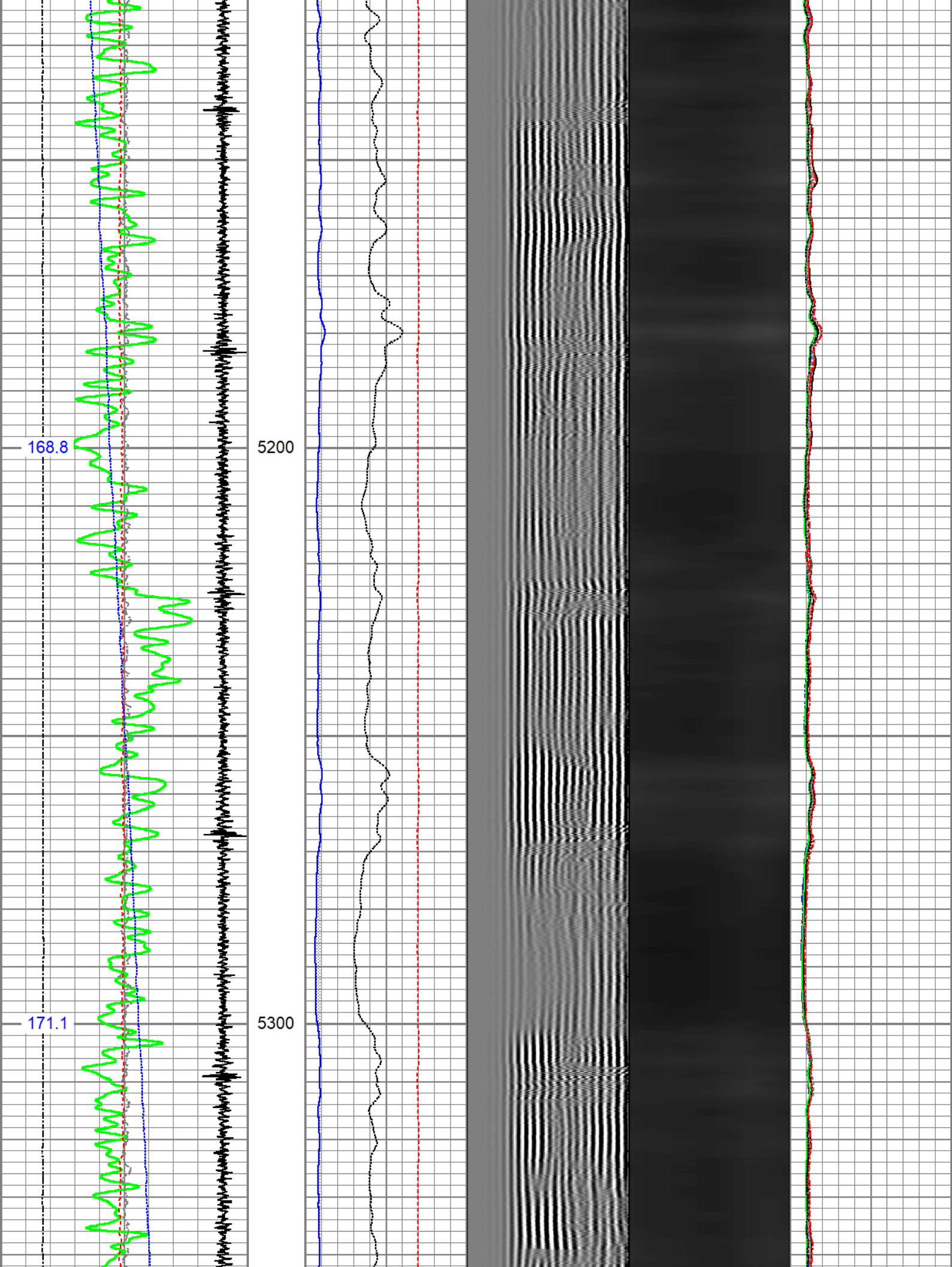


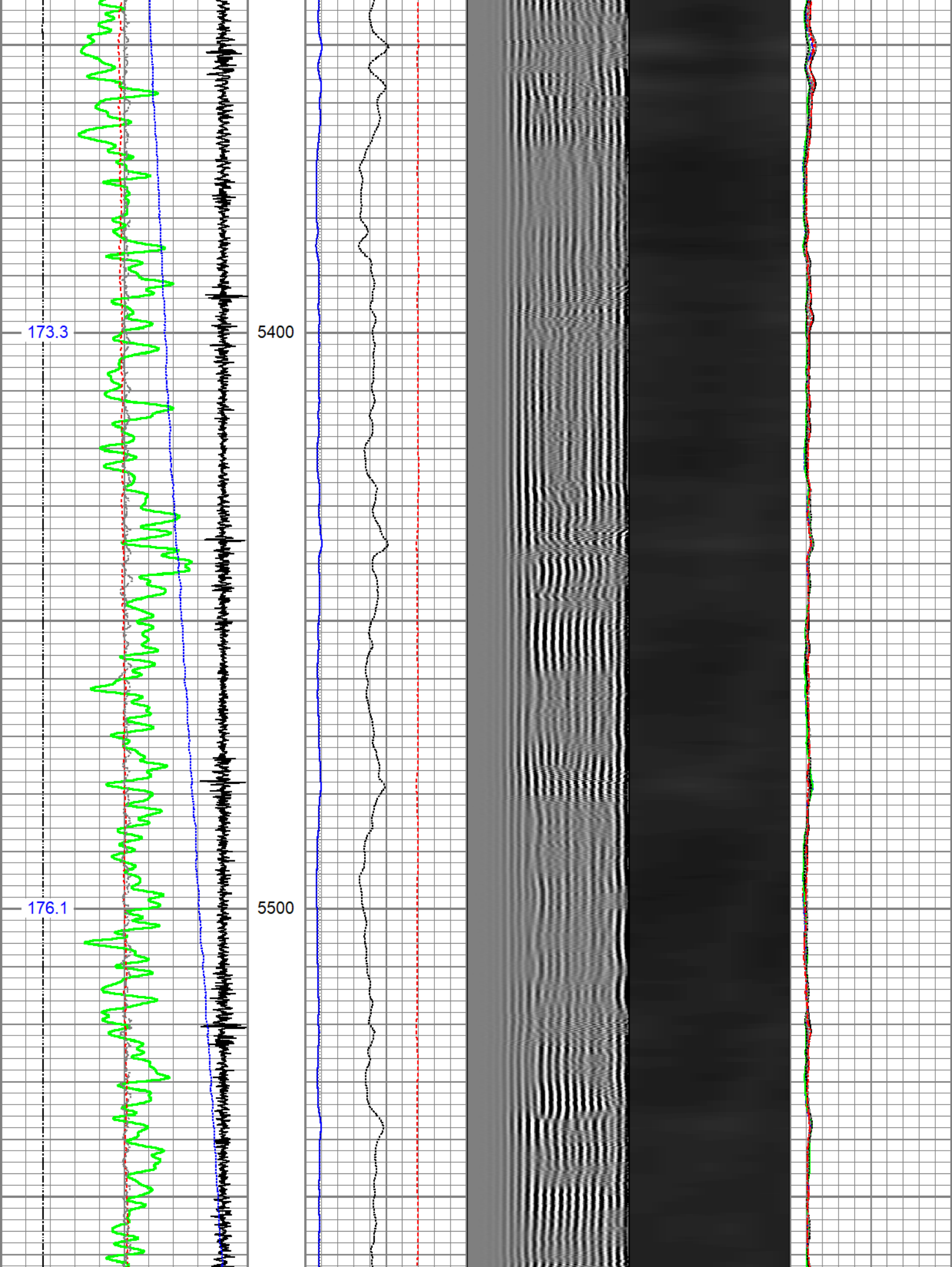


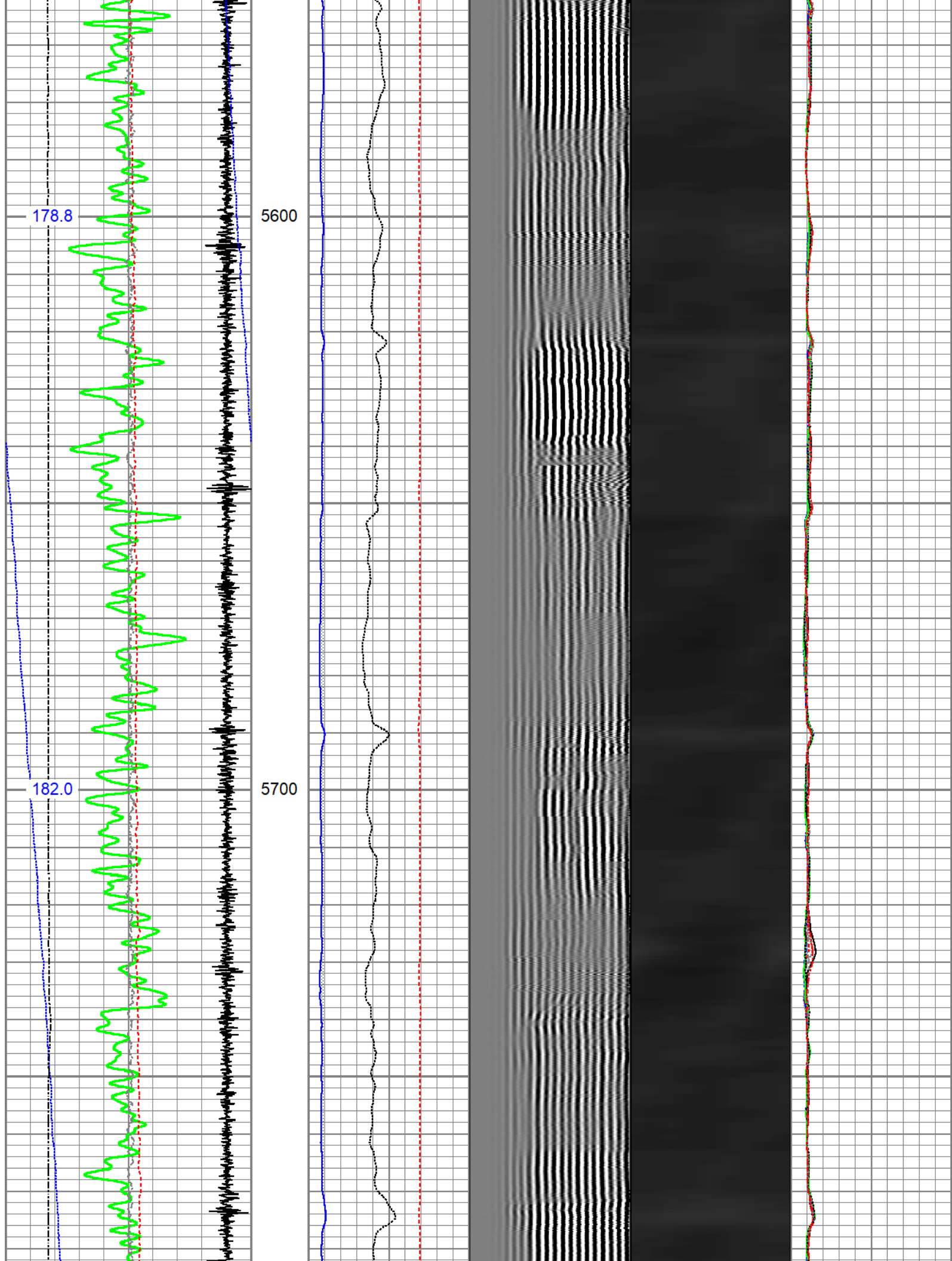


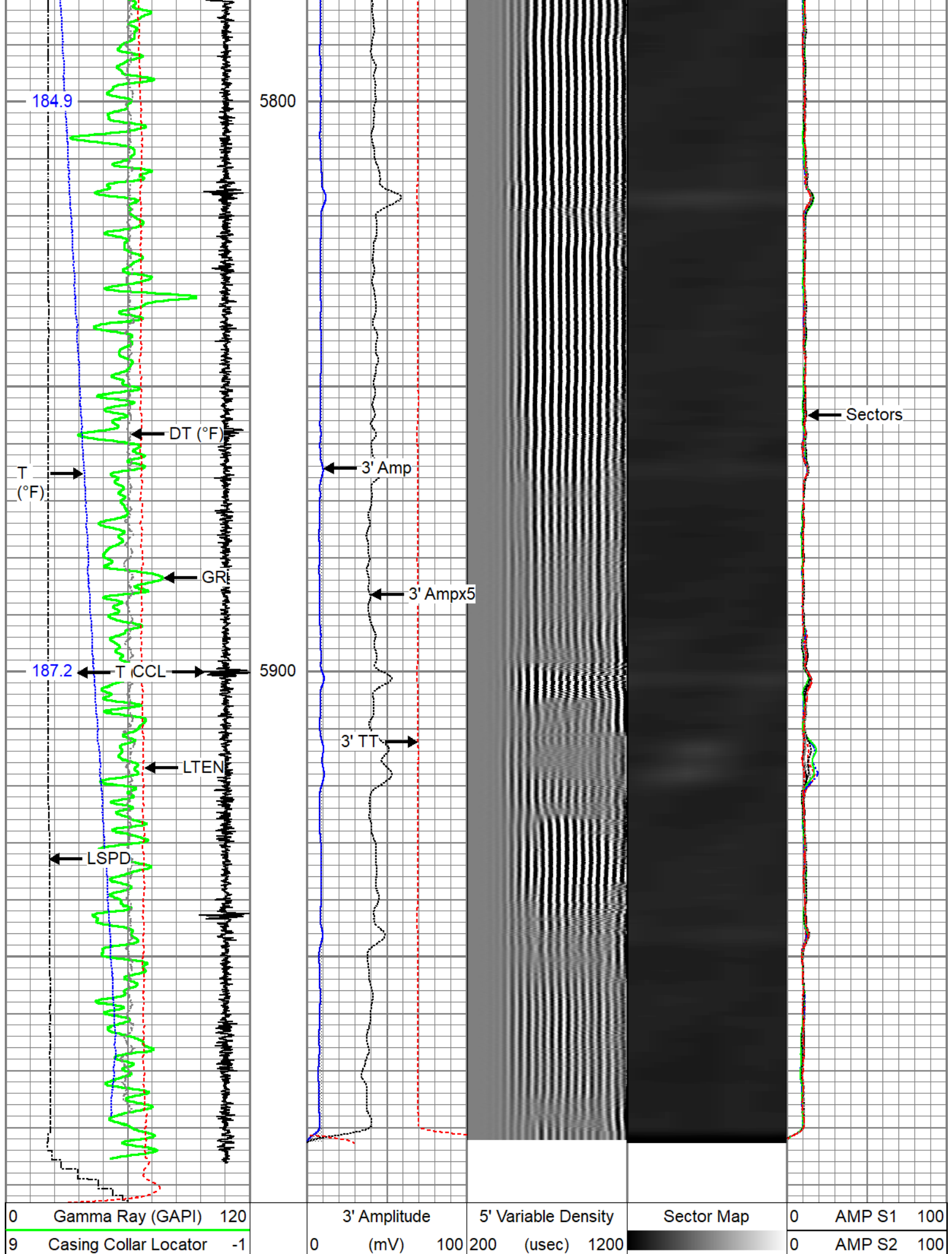














0	Temperature (degF)	20	3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150	0	(mV)		20	0	AMP S4
0	Line Tension (lb)	2000	3' Travel Time			0	AMP S5	100
Differential Temperature			650	(usec)	150	0	AMP S6	100
-2	(degF)	2				0	AMP S7	100
Temperature						0	AMP S8	100
(degF)								

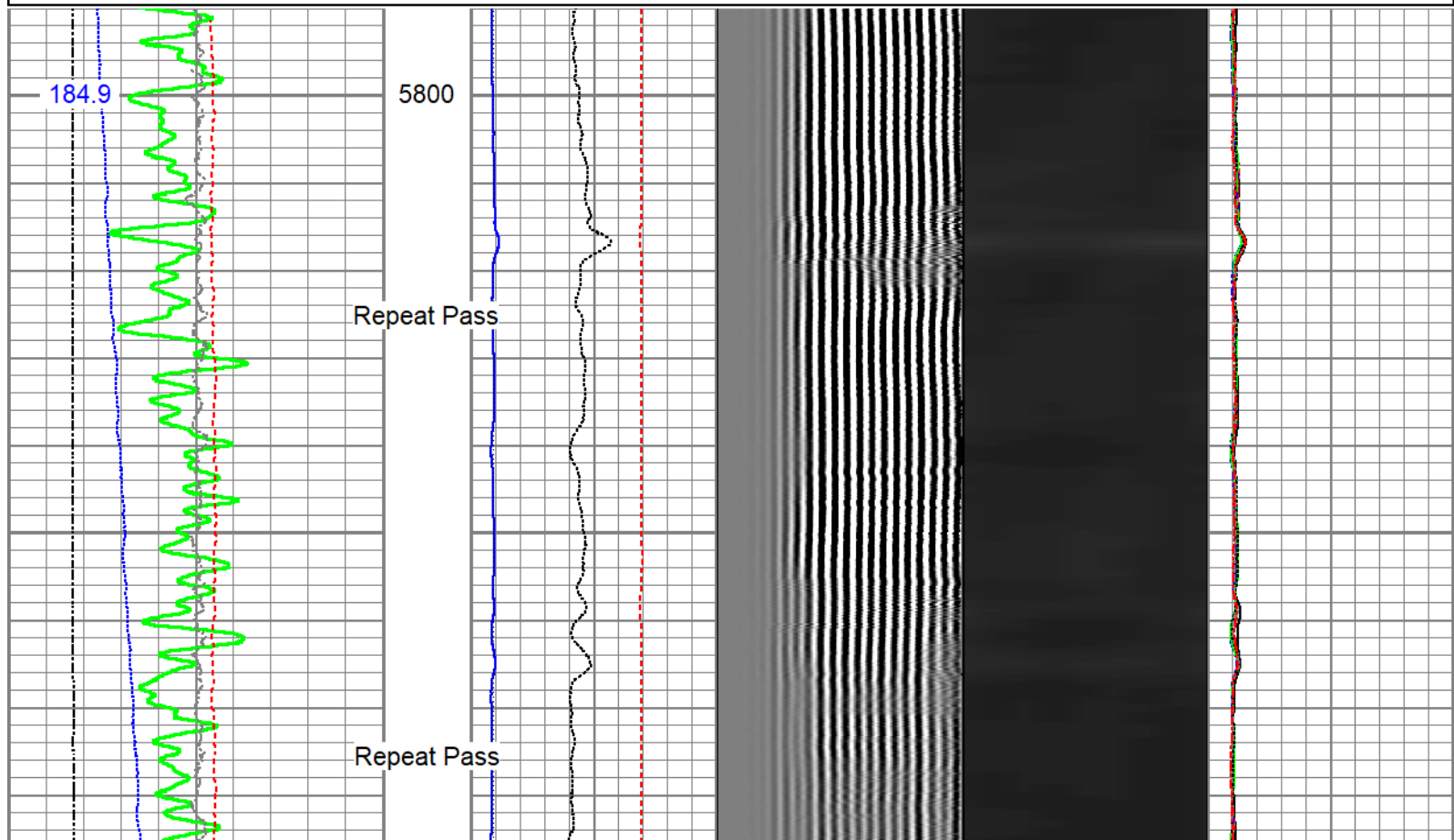


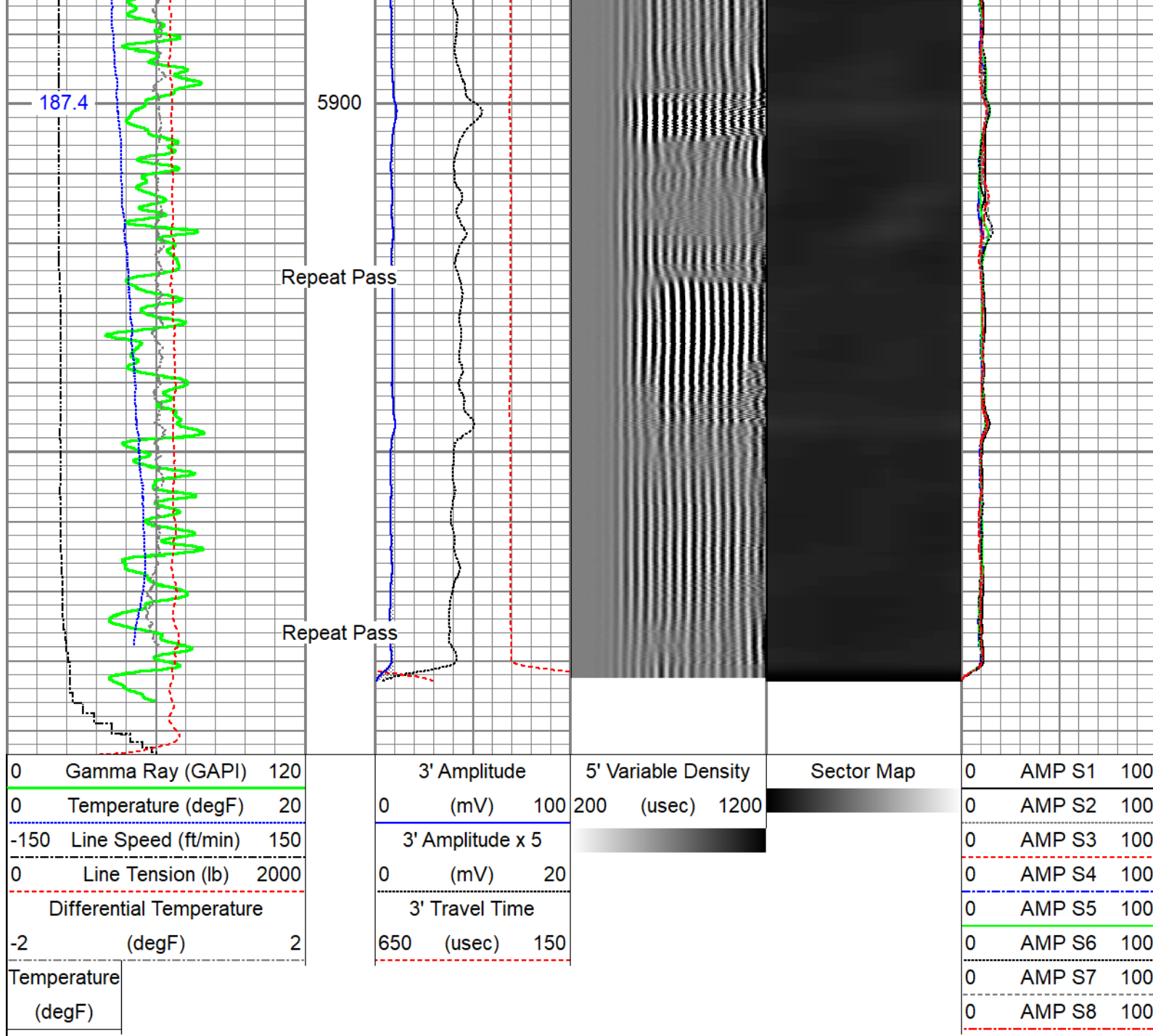
Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File	oxy\0512351419_oxy_shake 11-3hz_rbl_10-18-21\0512351419_oxy_shake 11-3hz_rbl_10-18-21.db
Dataset Pathname	repeat/Repeat2
Presentation Format	edge_rbl
Dataset Creation	Tue Oct 19 10:47:19 2021
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	120	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
0	Temperature (degF)	20	0 (mV) 100	200 (usec) 1200		0	AMP S2	100
-150	Line Speed (ft/min)	150	3' Amplitude x 5			0	AMP S3	100
0	Line Tension (lb)	2000	0 (mV) 20			0	AMP S4	100
Differential Temperature			3' Travel Time			0	AMP S5	100
-2	(degF)	2	650 (usec) 150			0	AMP S6	100
Temperature						0	AMP S7	100
(degF)						0	AMP S8	100





Company Kerr-McGee Oil & Gas Onshore, L.P.
 Well Shake 11-3HZ
 Field Wattenberg
 County Weld
 State Colorado