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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 Casing Tally reported Marker Joint at 6651.3 FT Adjusted +7 FT to correlate with Marker Joint Log ran with 2500 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!

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			
			SO BS CENT-2750-5500 Slip Over 2-3/4" I.D. for 5-1/2" O.D. Casing Bow Spring Centralizer	1.50	3.25	11.00
TEMP	13.87					
			Probe Radii-2750 RBT (FW1305-096) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS8	11.64					
WVFS7	11.64					
WVFS6	11.64					
WVFS5	11.64					
WVFS4	11.64					
WVFS3	11.64					
WVFS2	11.64					
WVFS1	11.64					
WVFCAL	11.64					
WVF3FT	11.64					
WVF5FT	10.64					
CCL\$2	6.51					
CCL\$1	6.51					
GR	5.26		SO BS CENT-2750-5500 Slip Over 2-3/4" I.D. for 5-1/2" O.D. Casing Bow Spring Centralizer	1.50	3.25	11.00
			Probe GR-CCL-2750 GOB (FW1212-026) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined with GO Bottom	4.51	2.75	55.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
LOCTIM	0.00					
UTCTIM	0.00					
Dataset: noble_rampart a33-740_rbl_09-09-21.db: field/well/run1/Main.1 Total length: 17.81 ft Total weight: 216.60 lb O.D.: 3.25 in						

### Gamma Ray Calibration Report

Serial Number: FW1212-026  
 Tool Model: 2750 GOB  
 Performed: Mon Oct 19 14:19:51 2020

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: FW1305-096  
 Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 111.615 ft

#### Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.553	0.800	71.921	128.718	0.799
CAL	0.667	0.668				
5'	0.000	0.536	0.800	71.921	132.864	0.762
SUM						
S1	0.000	0.541	0.000	100.000	184.863	-0.052
S2	-0.000	0.528	0.000	100.000	189.491	0.006
S3	0.000	0.524	0.000	100.000	190.904	-0.035
S4	-0.000	0.547	0.000	100.000	182.704	0.012
S5	0.000	0.573	0.000	100.000	174.668	-0.061
S6	0.000	0.598	0.000	100.000	167.266	-0.012
S7	-0.001	0.586	0.000	100.000	170.459	0.087
S8	-0.000	0.570	0.000	100.000	175.221	0.052

#### Air Zero Calibration, performed Thu Sep 9 07:28:11 2021:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.008		0.000		-0.000
5'	0.008		0.000		0.000
SUM					
S1	0.006		0.000		0.000
S2	0.011		0.000		-0.000
S3	0.009		0.000		0.000
S4	0.014		0.000		-0.000
S5	0.008		0.000		0.000
S6	0.008		0.000		0.000
S7	0.020		0.000		-0.001
S8	0.009		0.000		-0.000

### Temperature Calibration Report

Serial Number: FW1305-096  
 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	

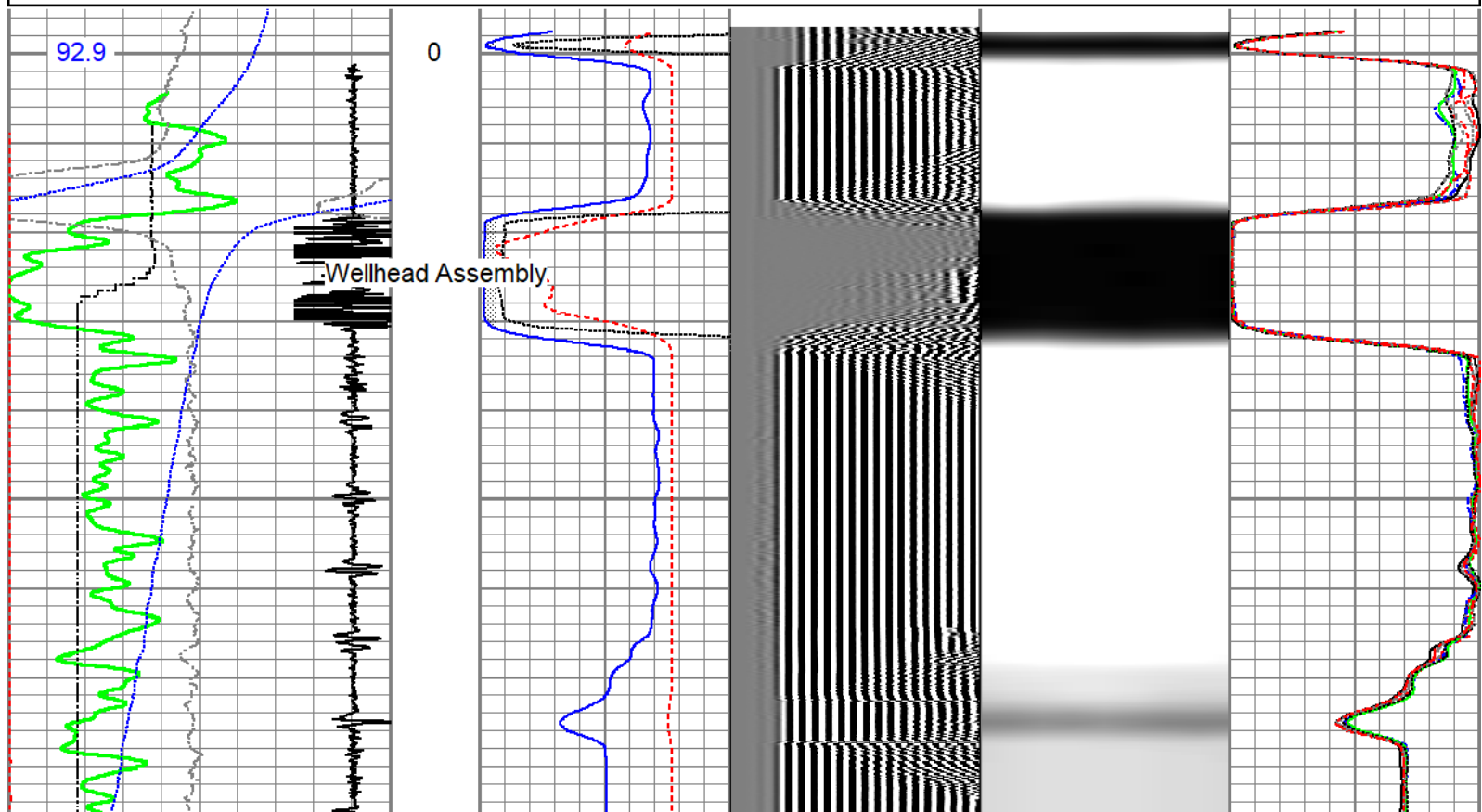


## Main Pass

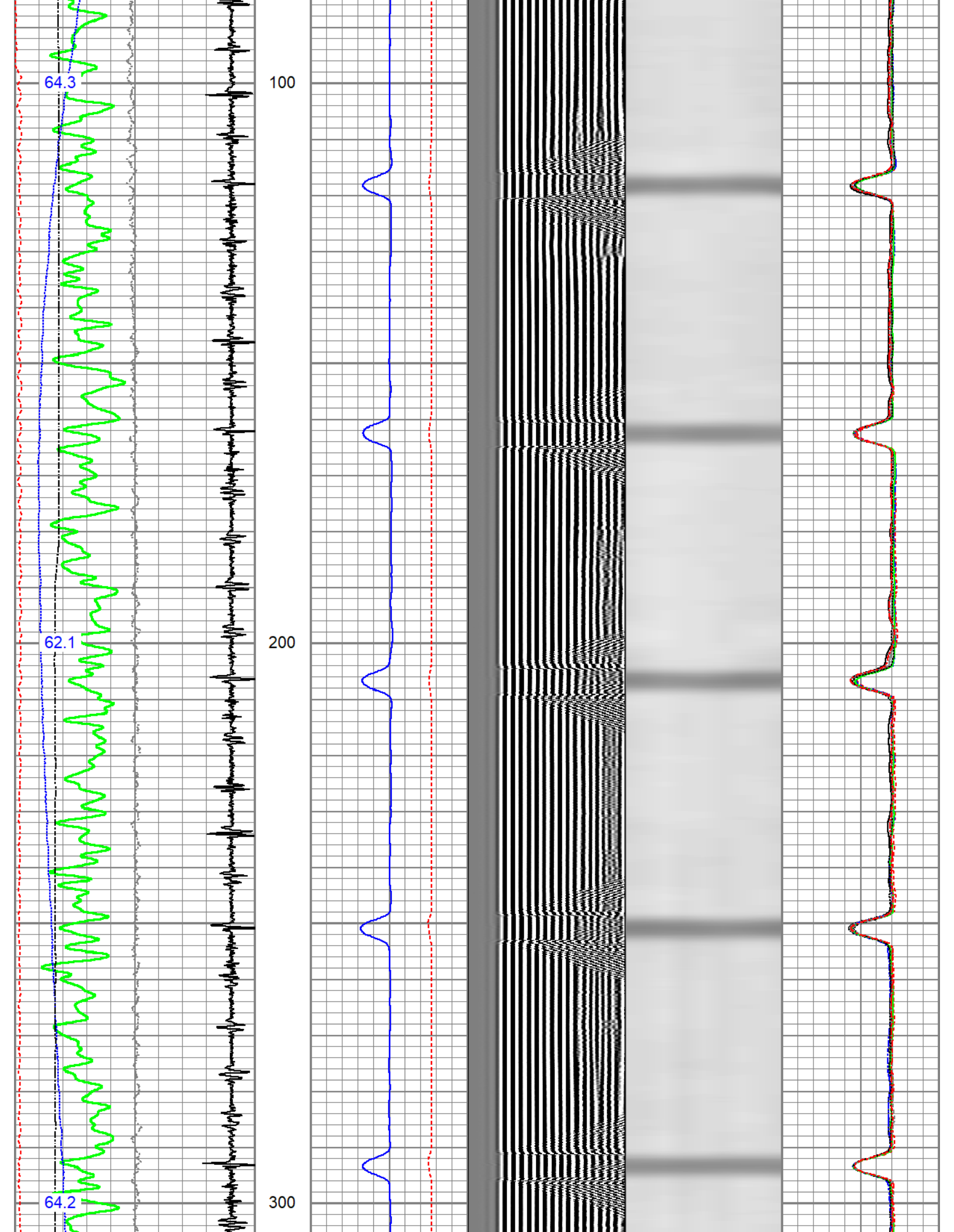
Recorded with 2500 PSI Surface Induced Pressure

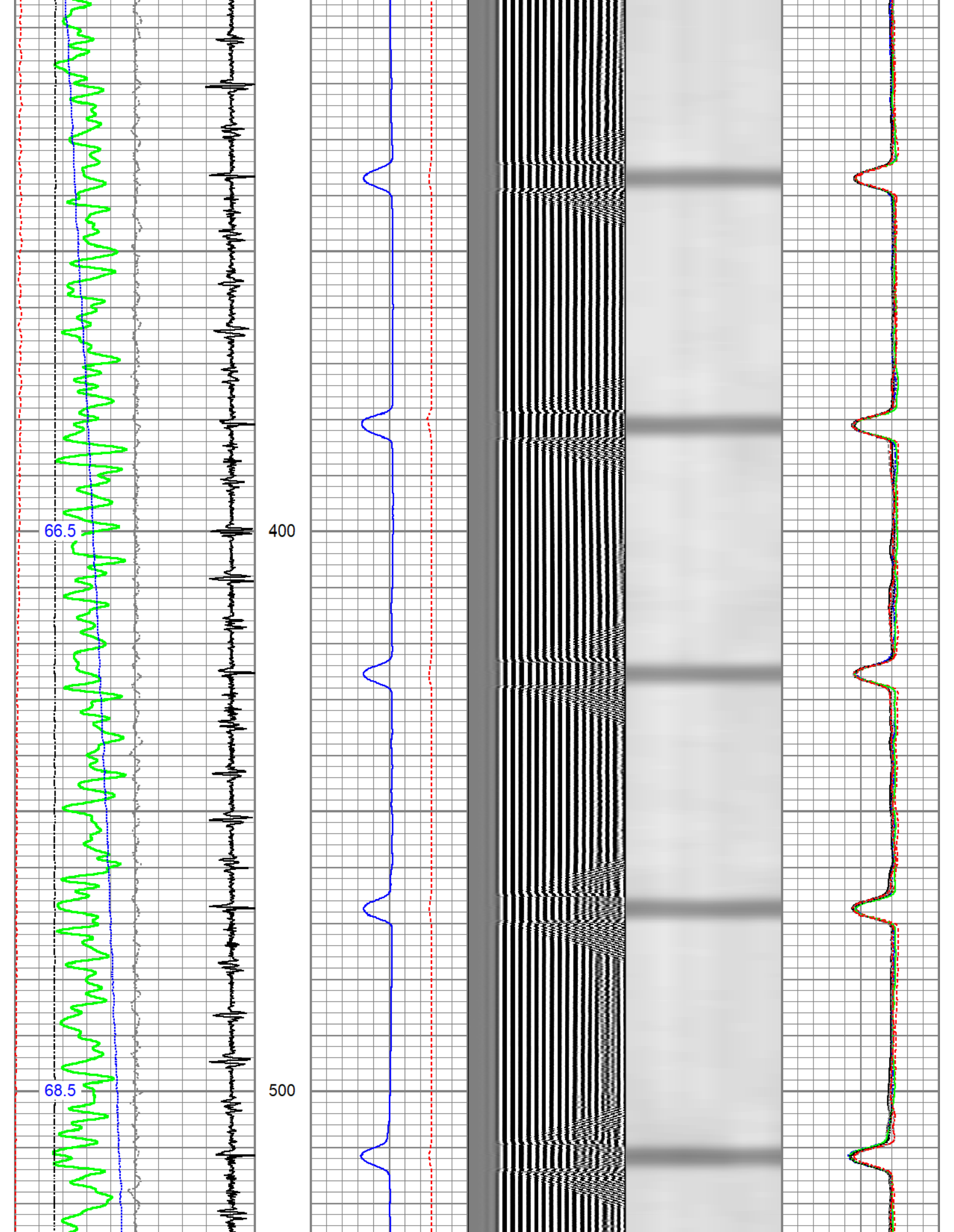
Database File	noble energy\noble_rampart a33-740_rbl_09-09-21\noble_rampart a33-740_rbl_09-09-21.db
Dataset Pathname	Main.1
Presentation Format	edge_rbl_noble
Dataset Creation	Thu Sep 09 14:22:32 2021
Charted by	Depth in Feet scaled 1:240

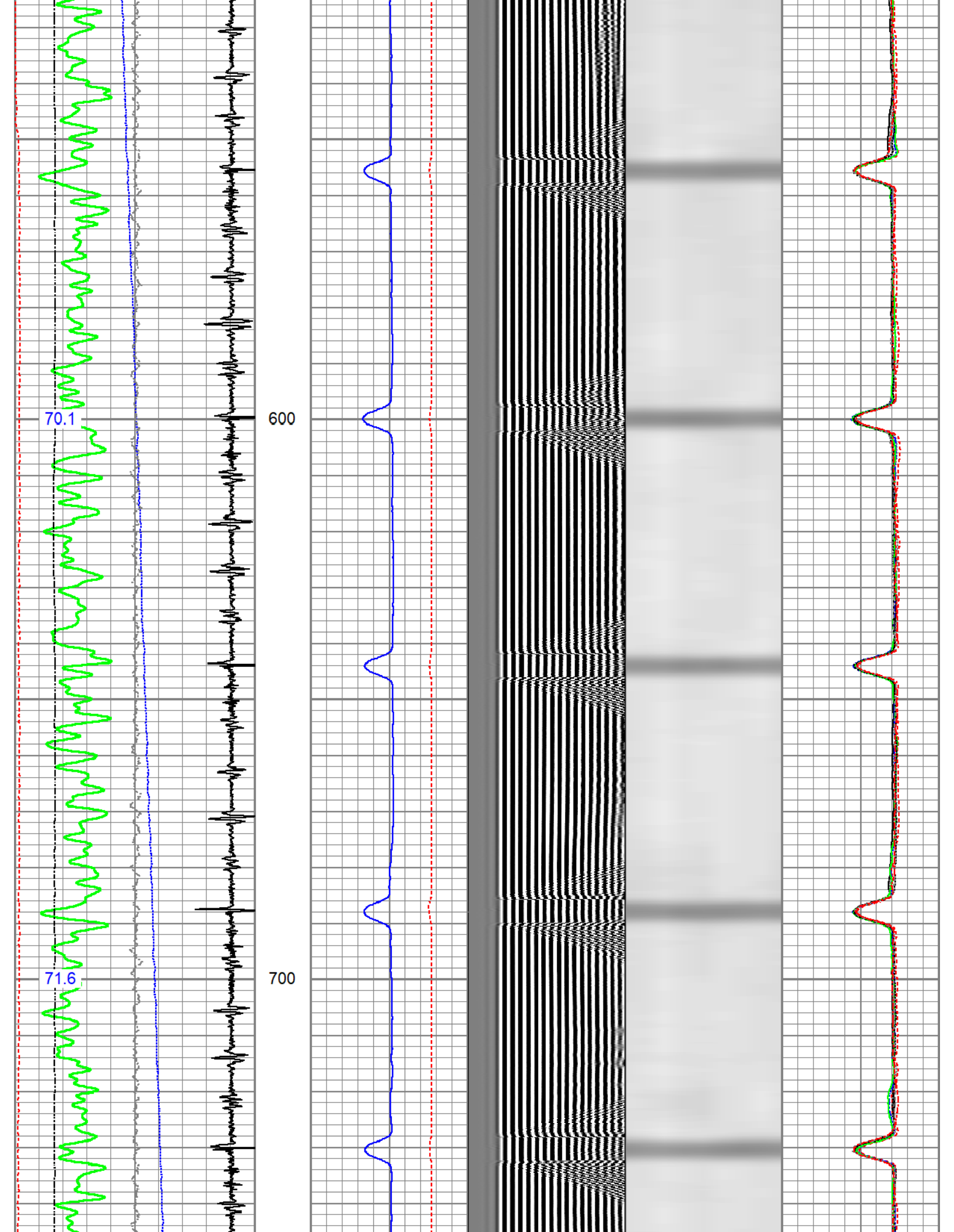
0	Gamma Ray (GAPI)	120	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	0 (mV) 100	200 (usec) 1200		0	AMP S2	100
0	Temperature (degF)	20	3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150	0 (mV) 20			0	AMP S4	100
0	Line Tension (lb)	2000	3' Travel Time			0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

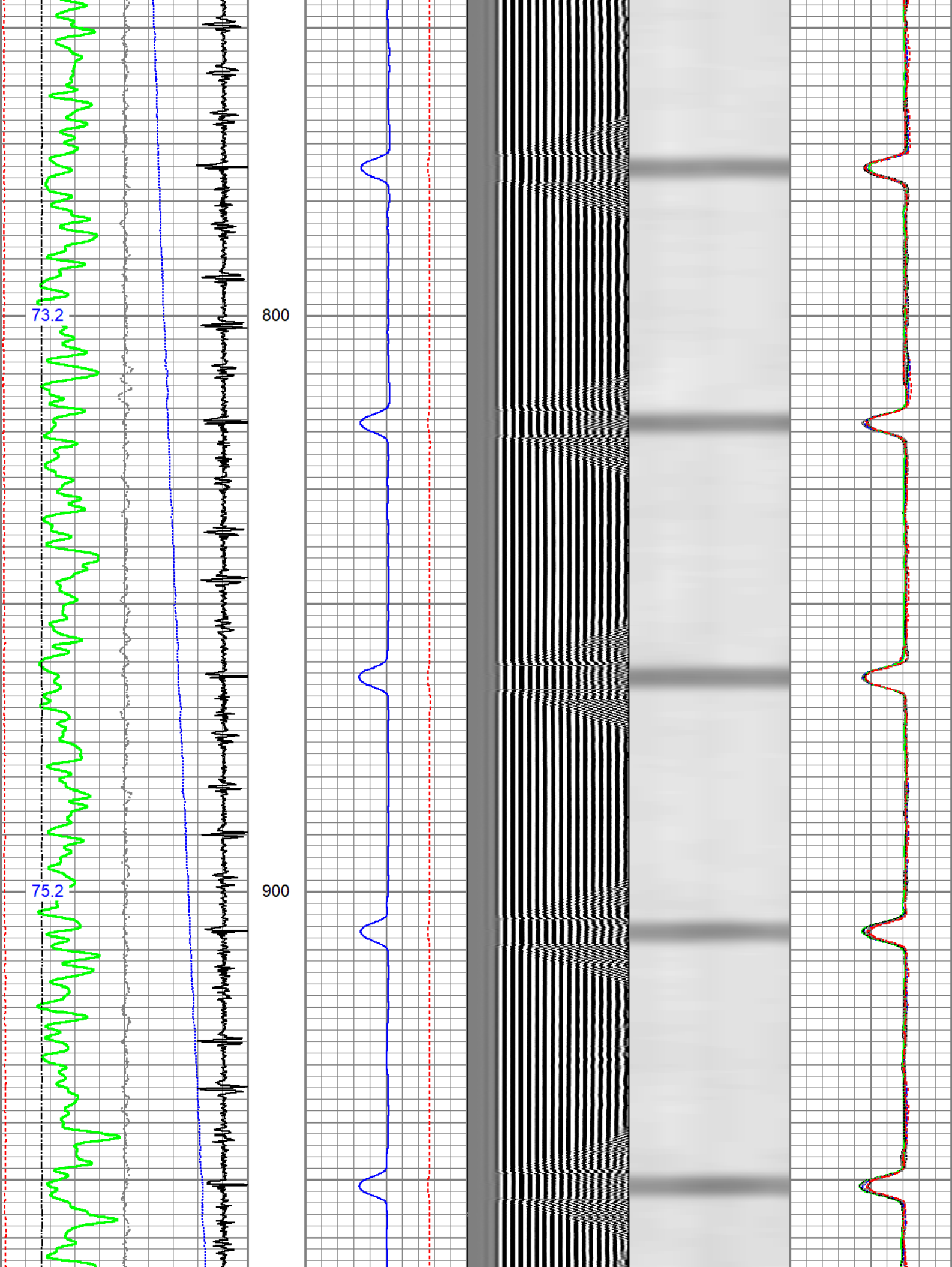




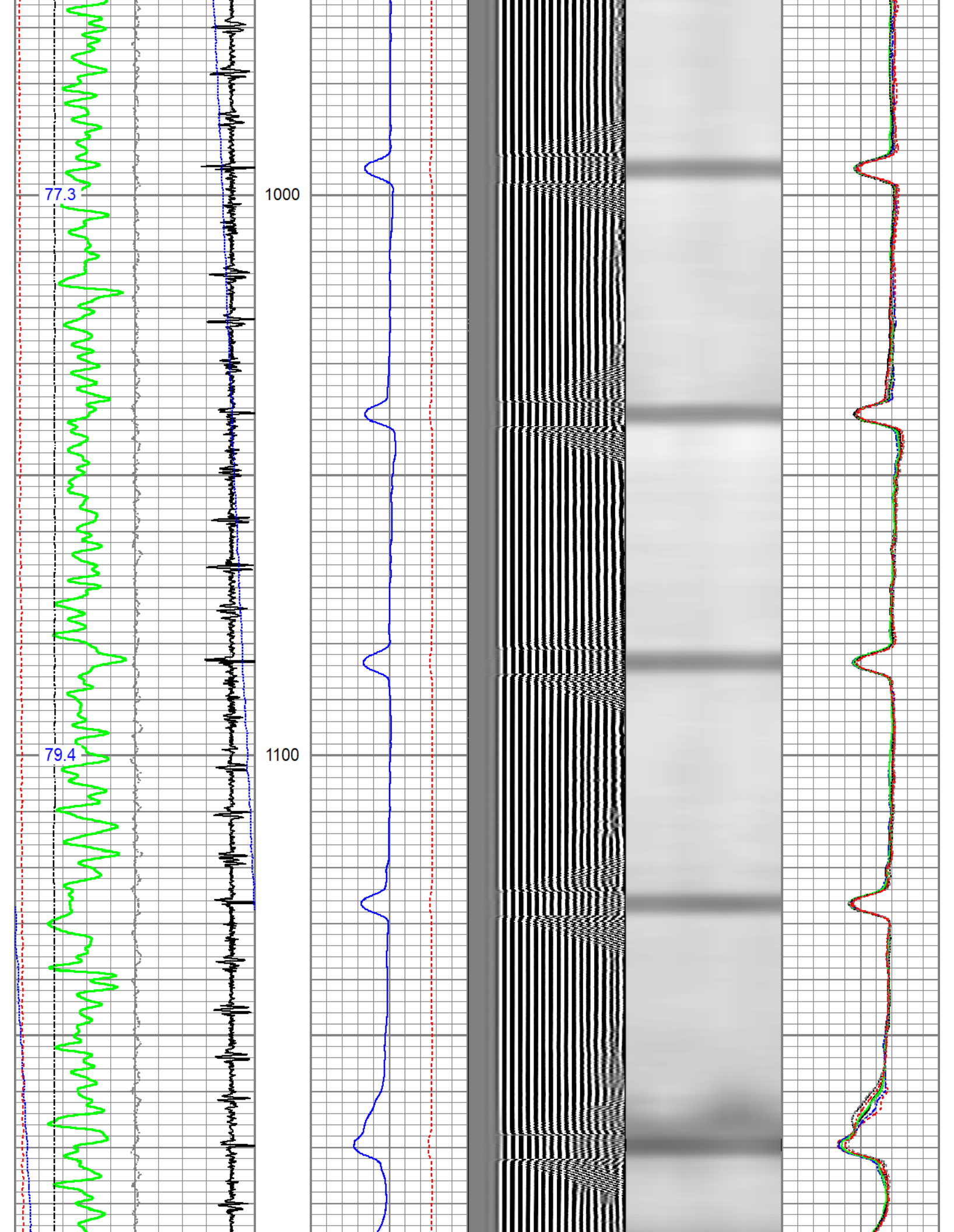


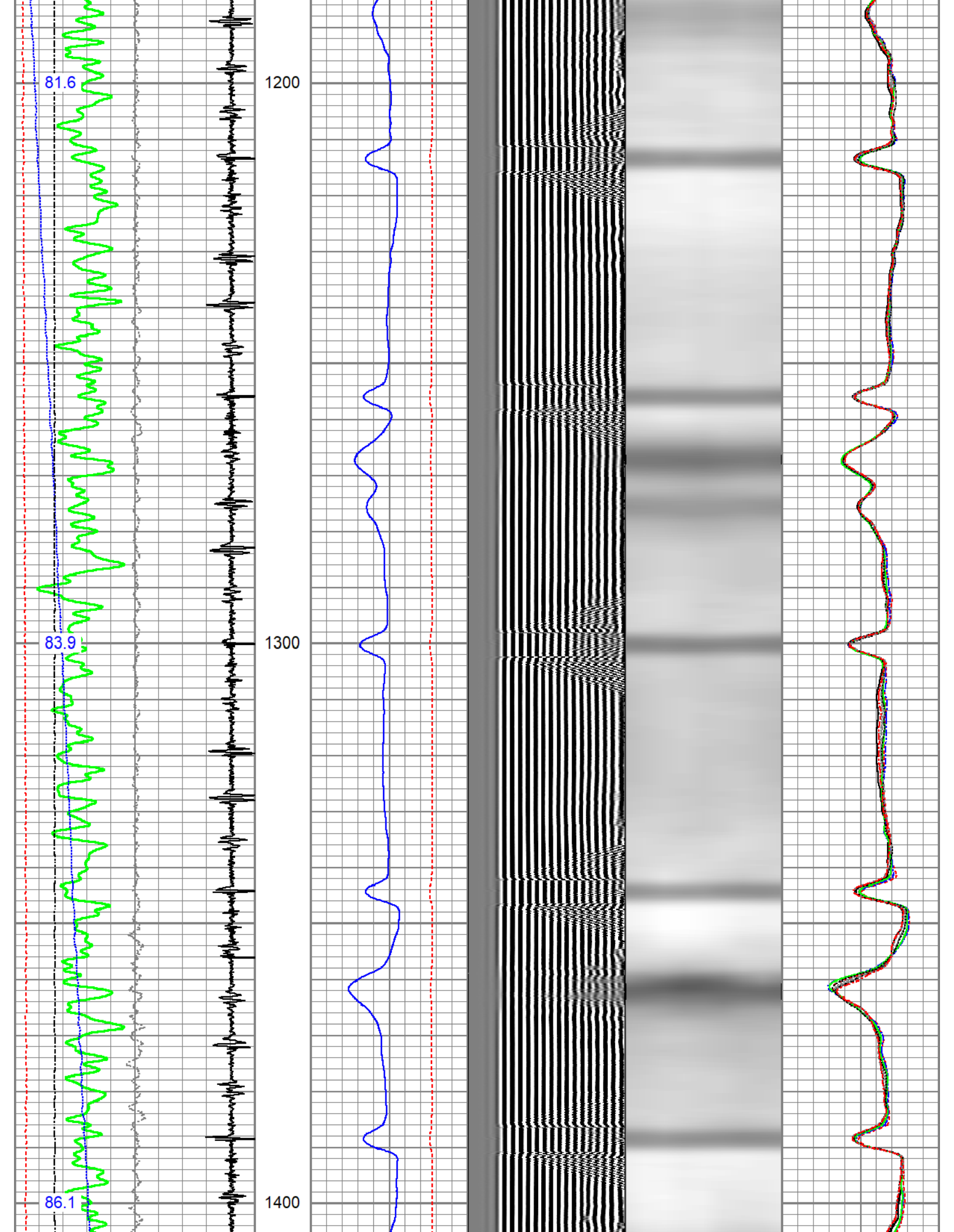




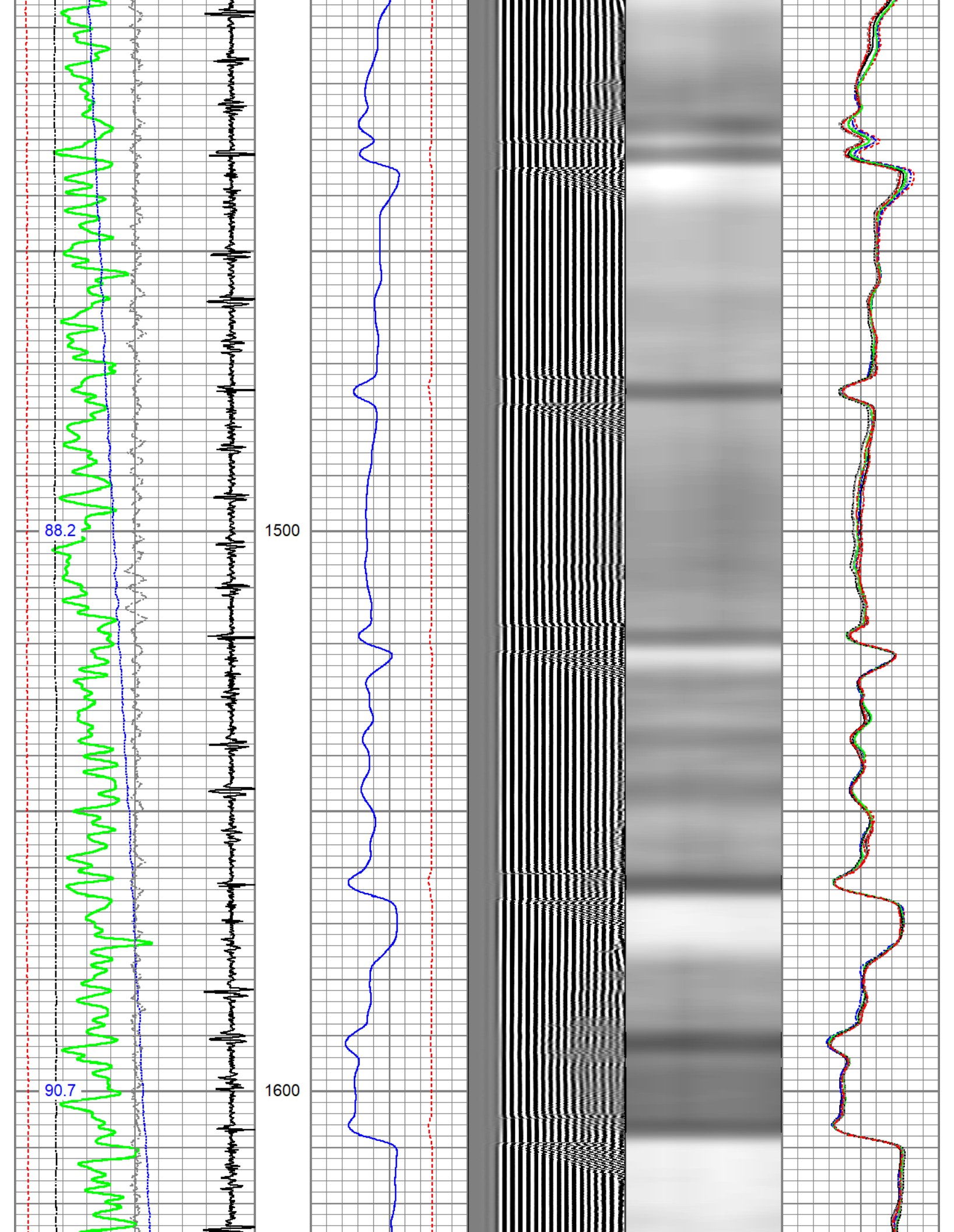


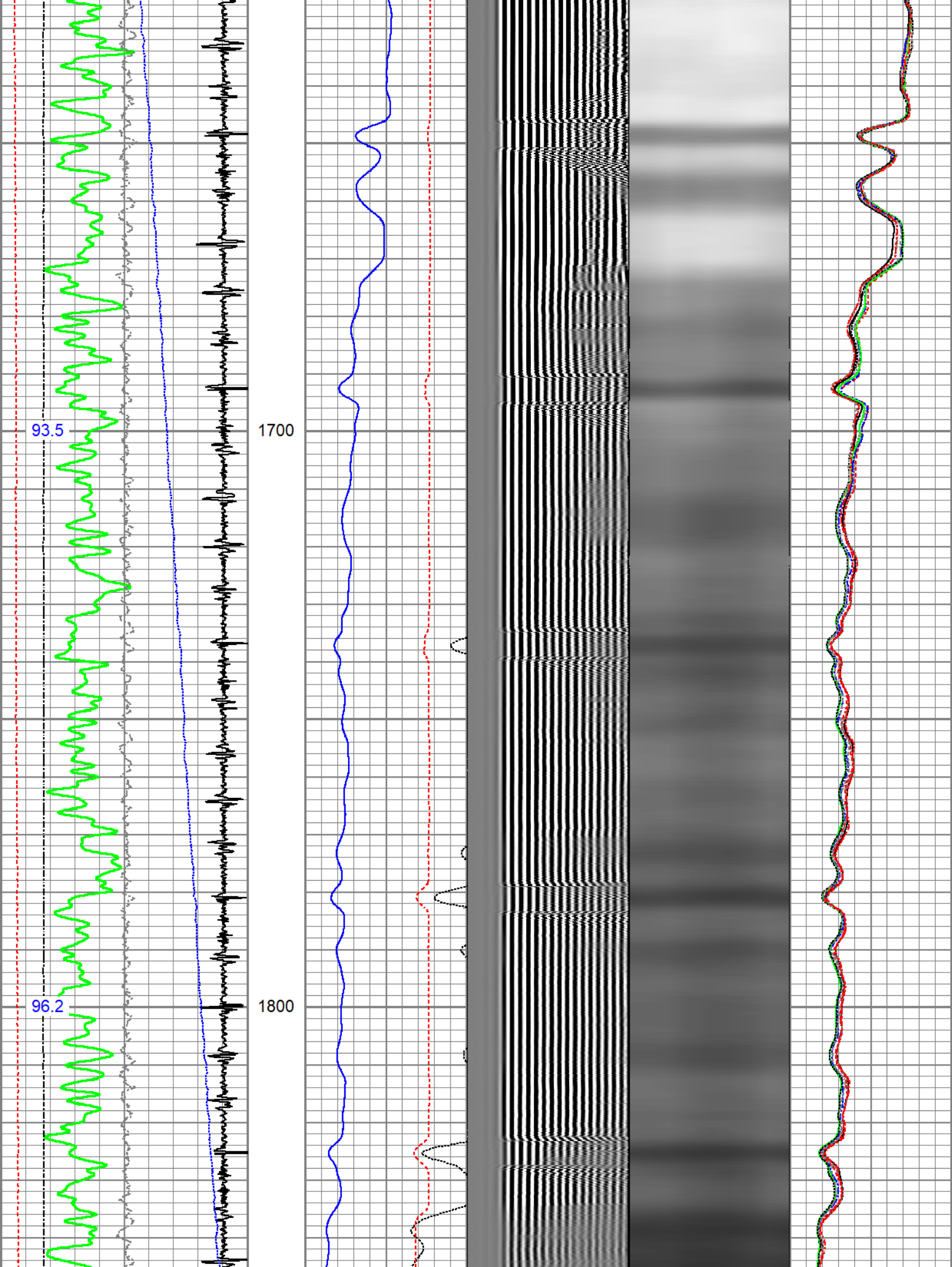


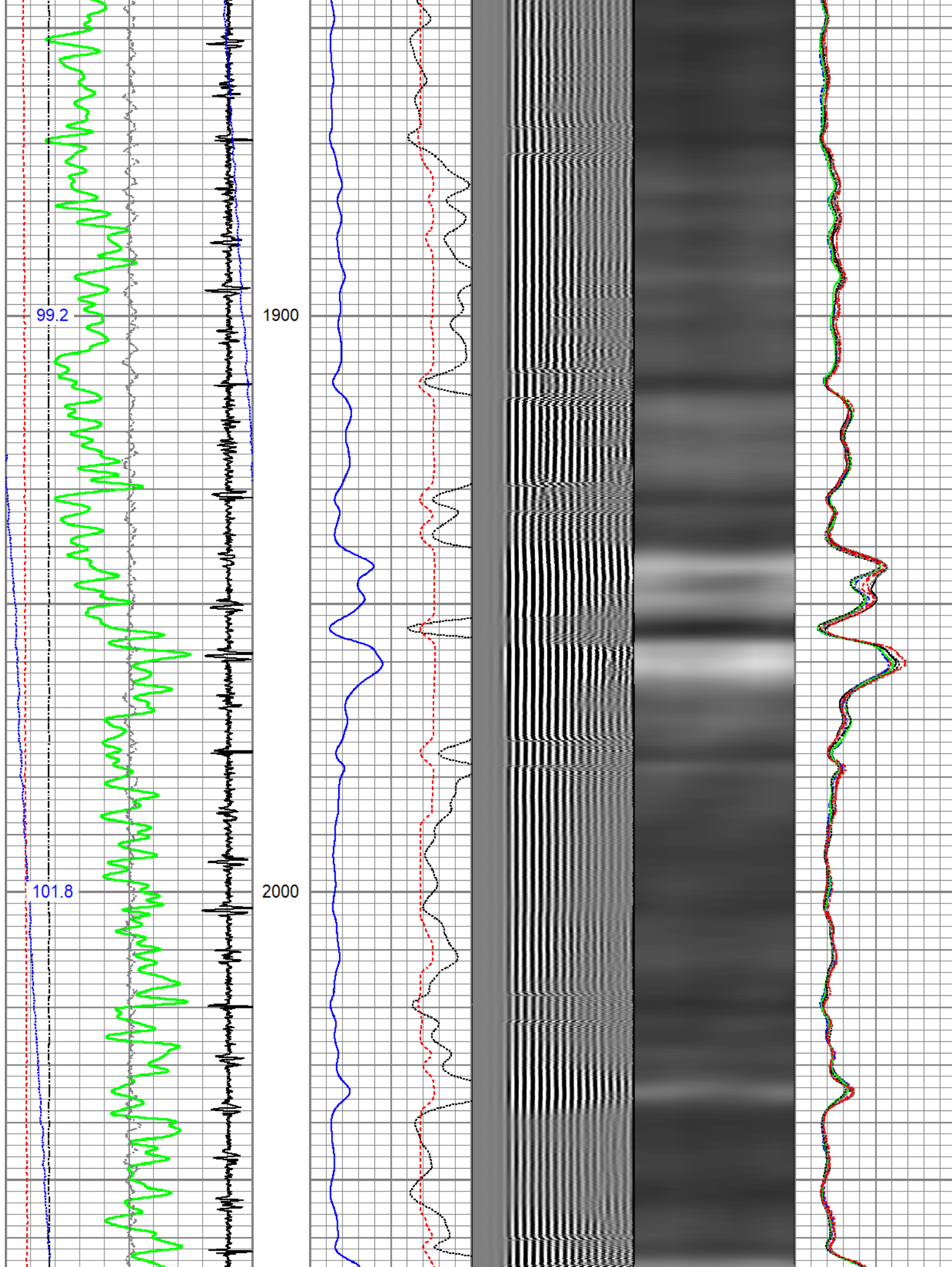




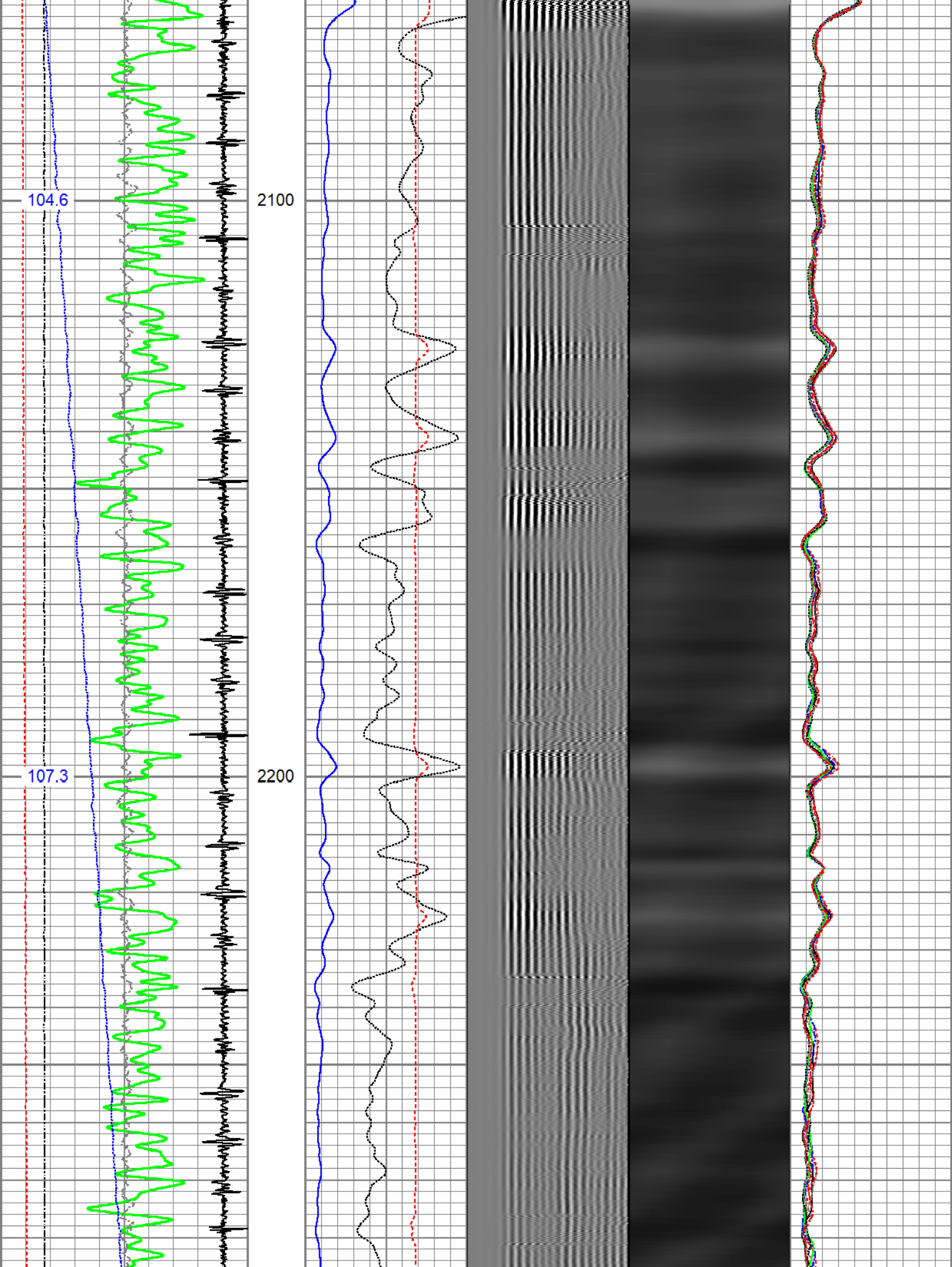


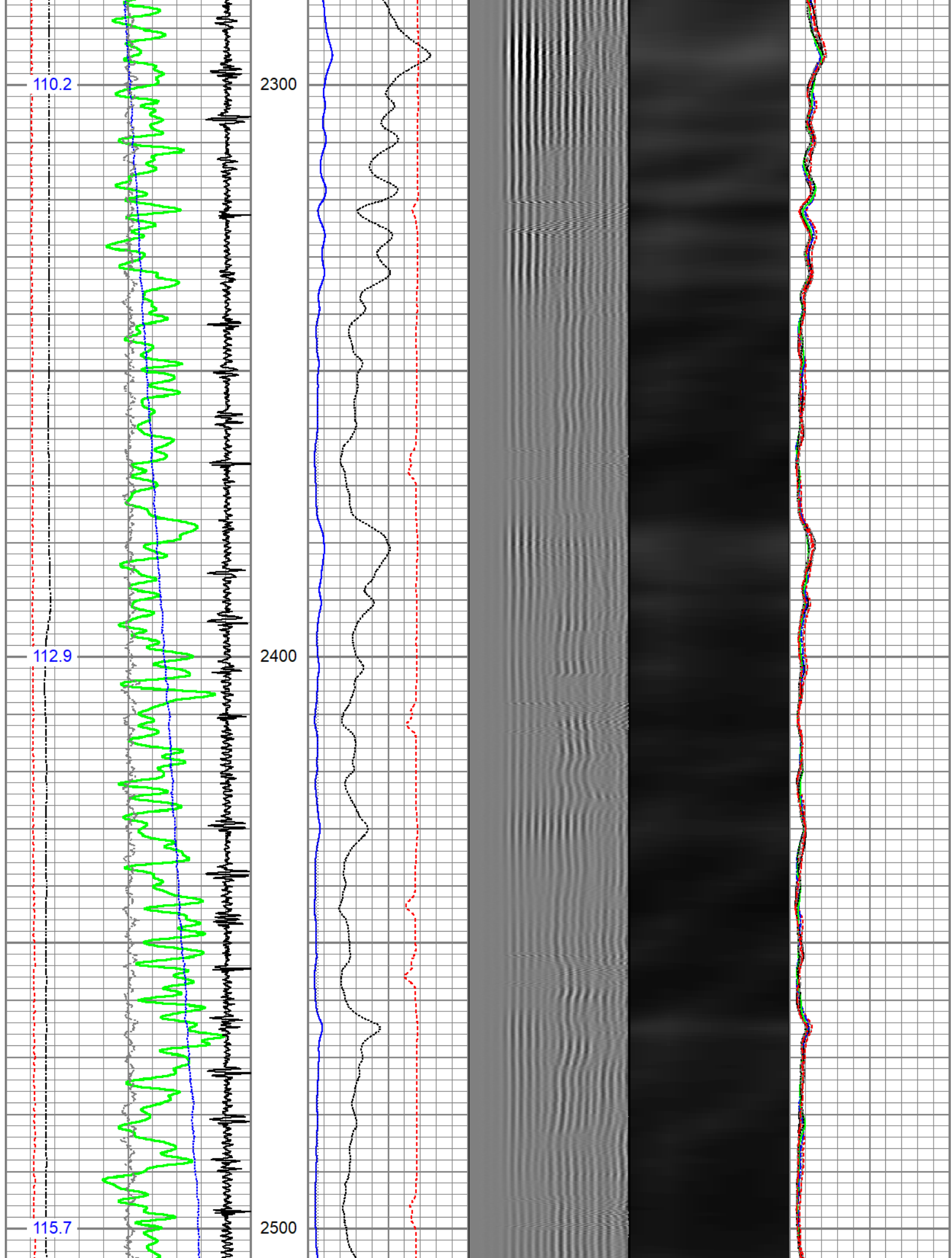


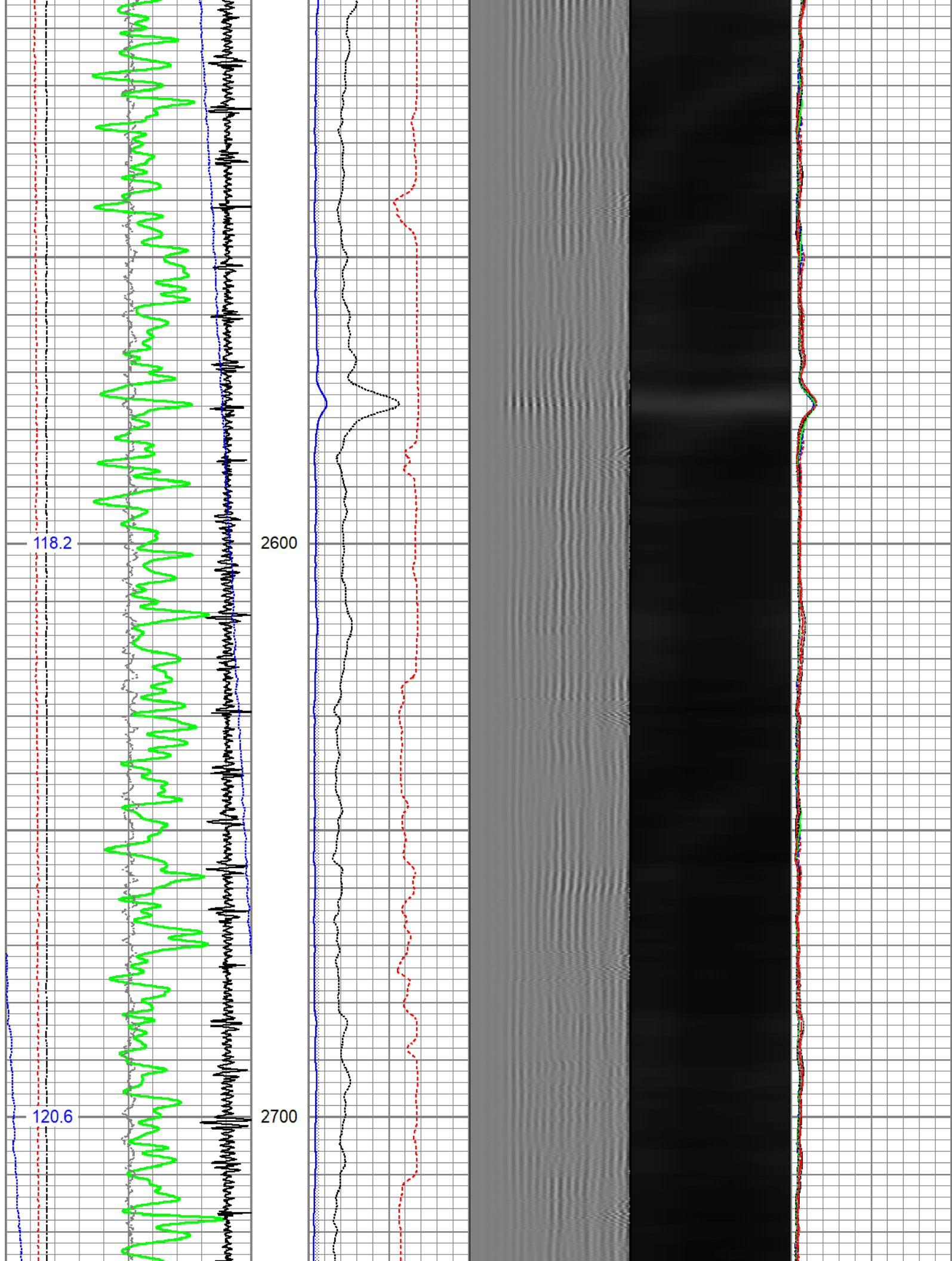




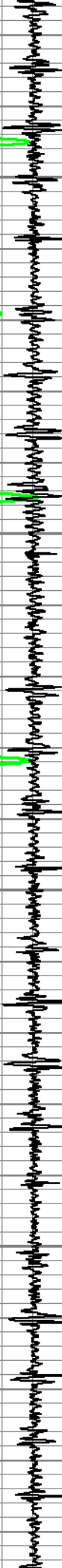
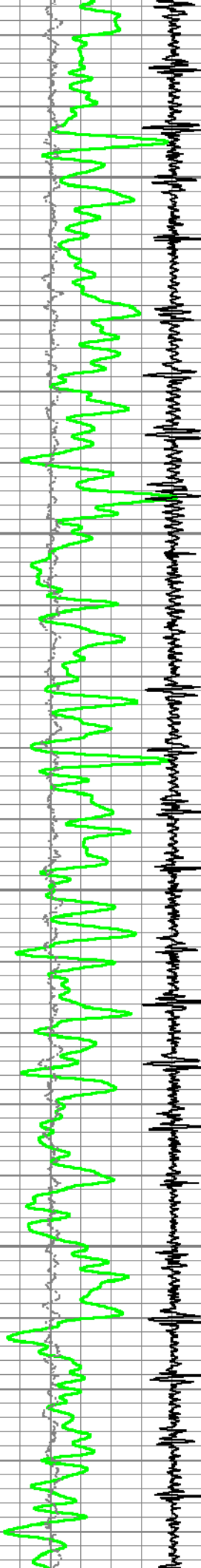






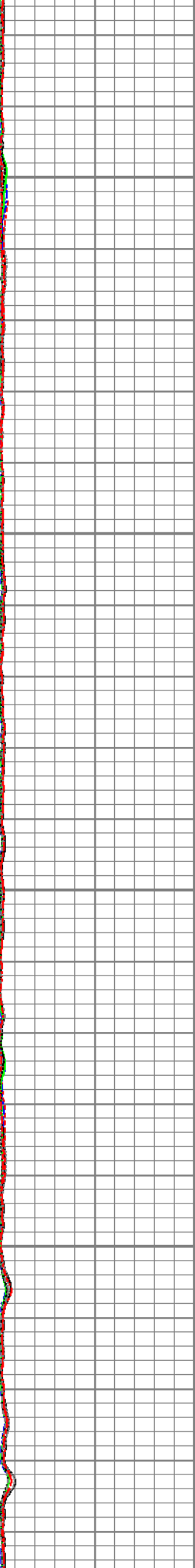
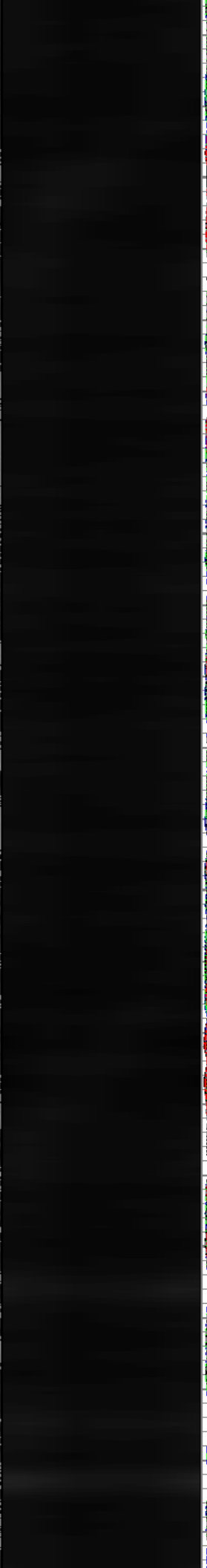
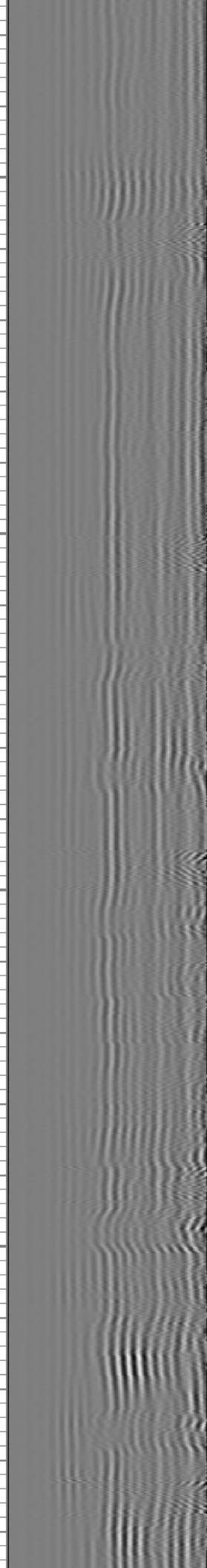
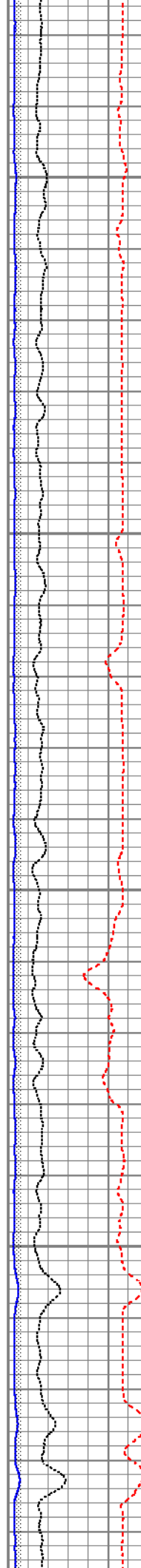






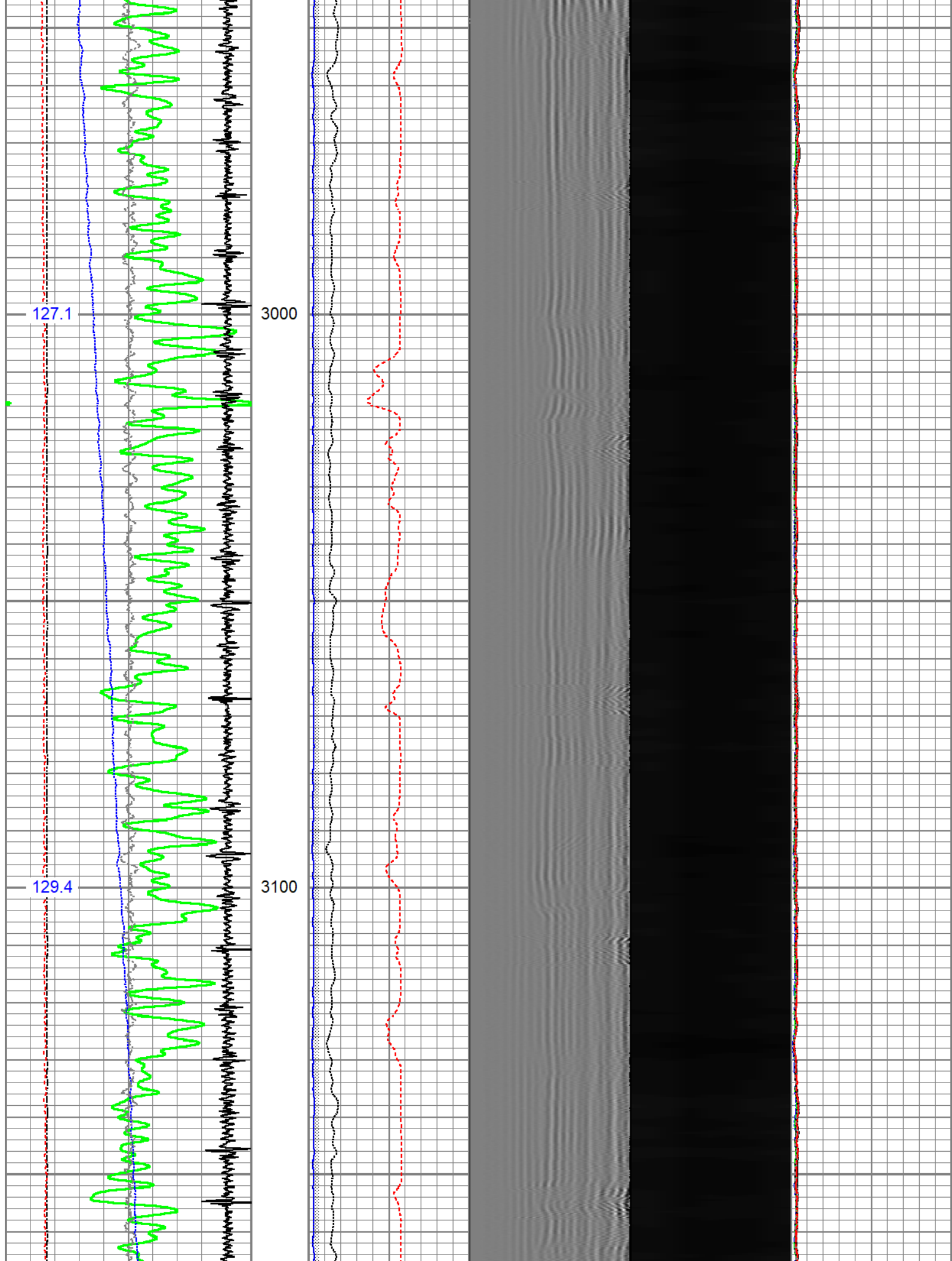
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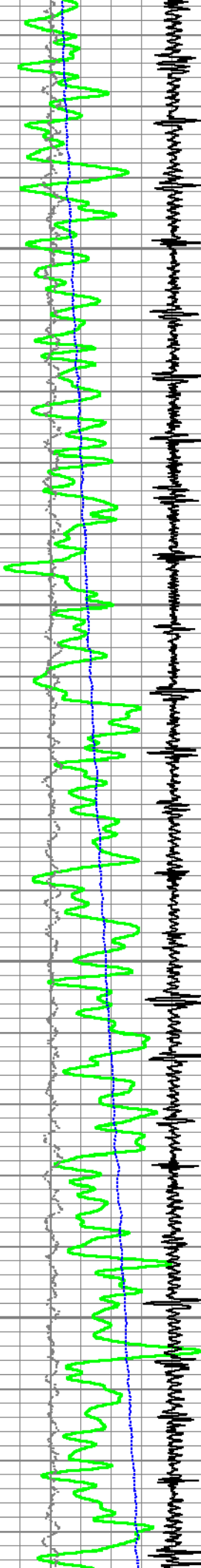
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125.0



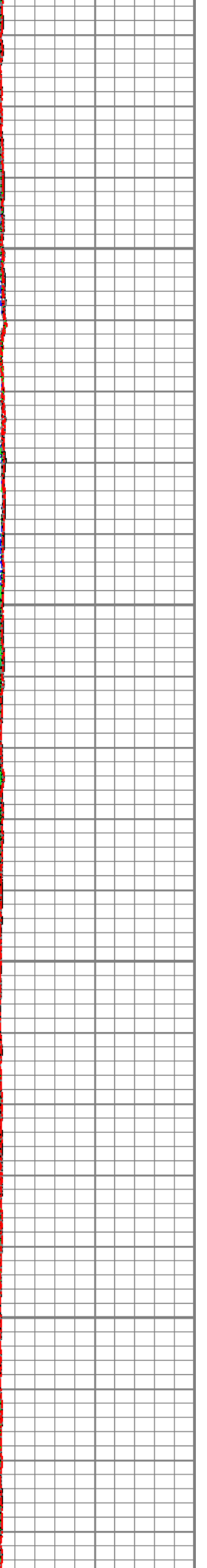
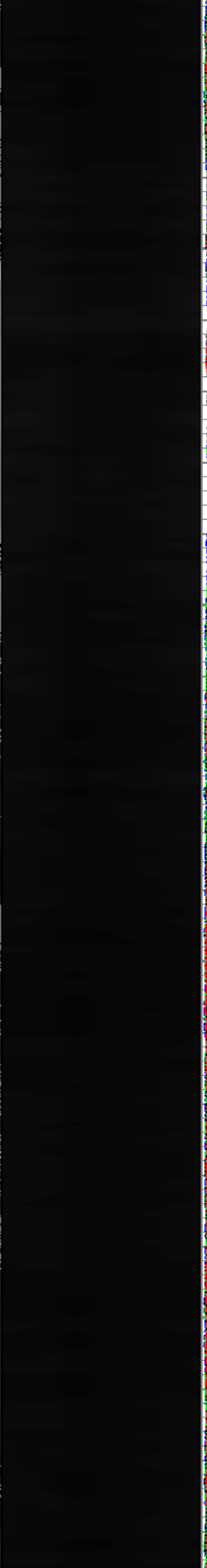
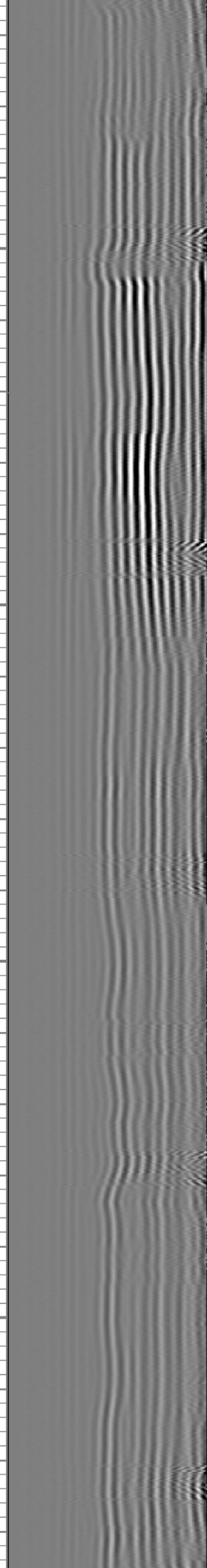
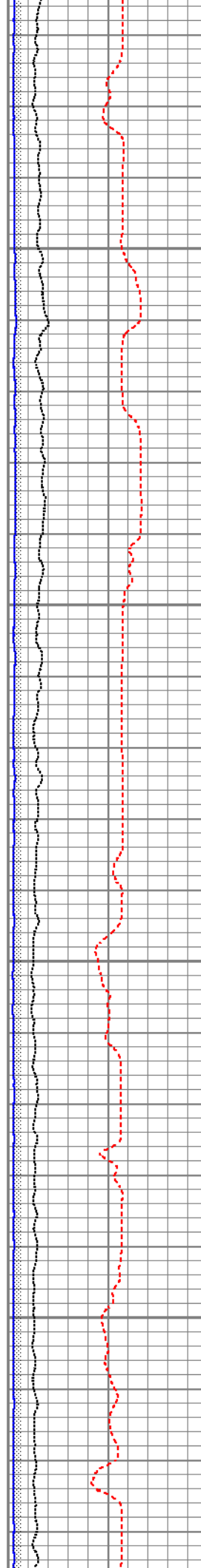


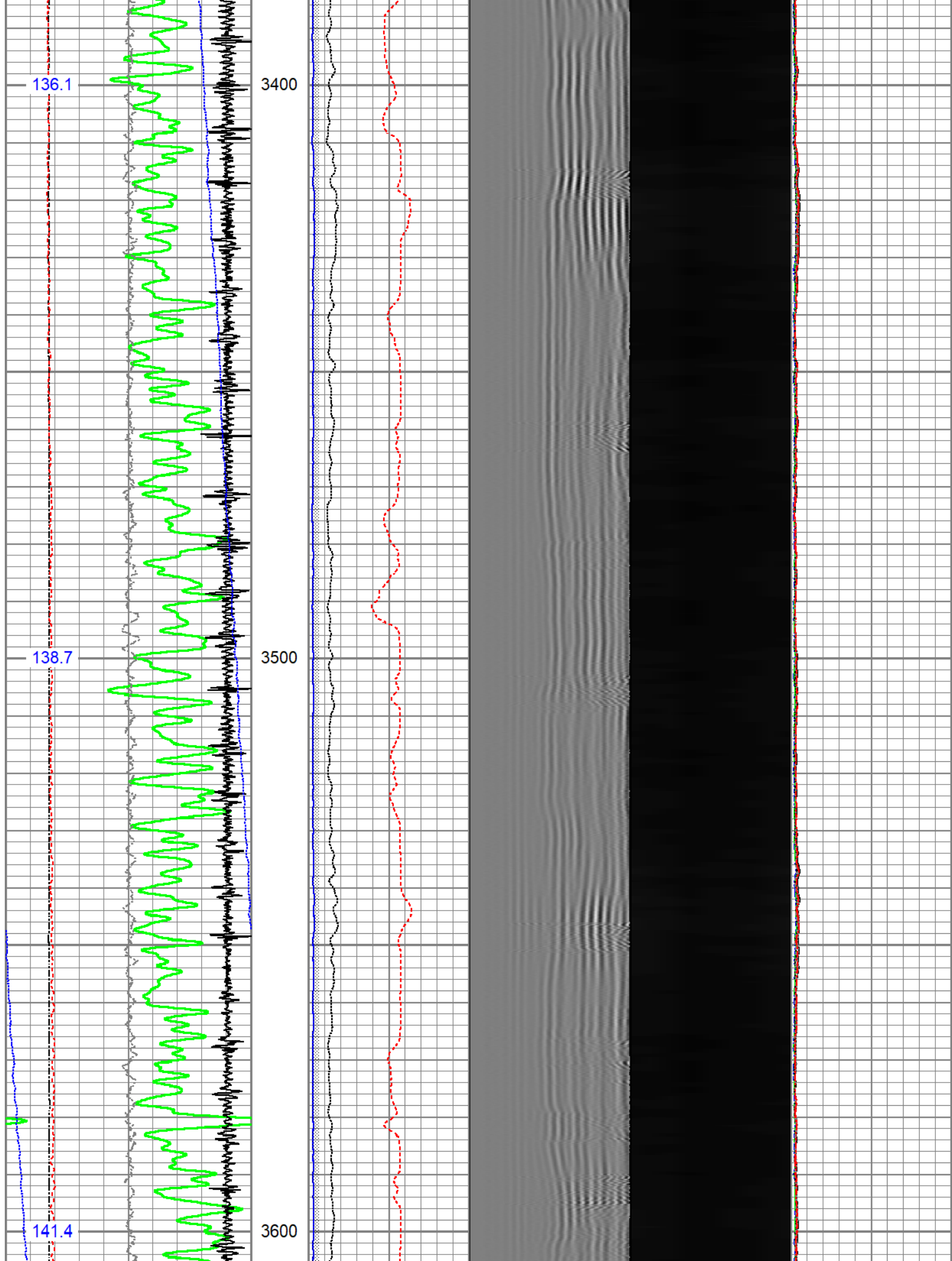
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133.7

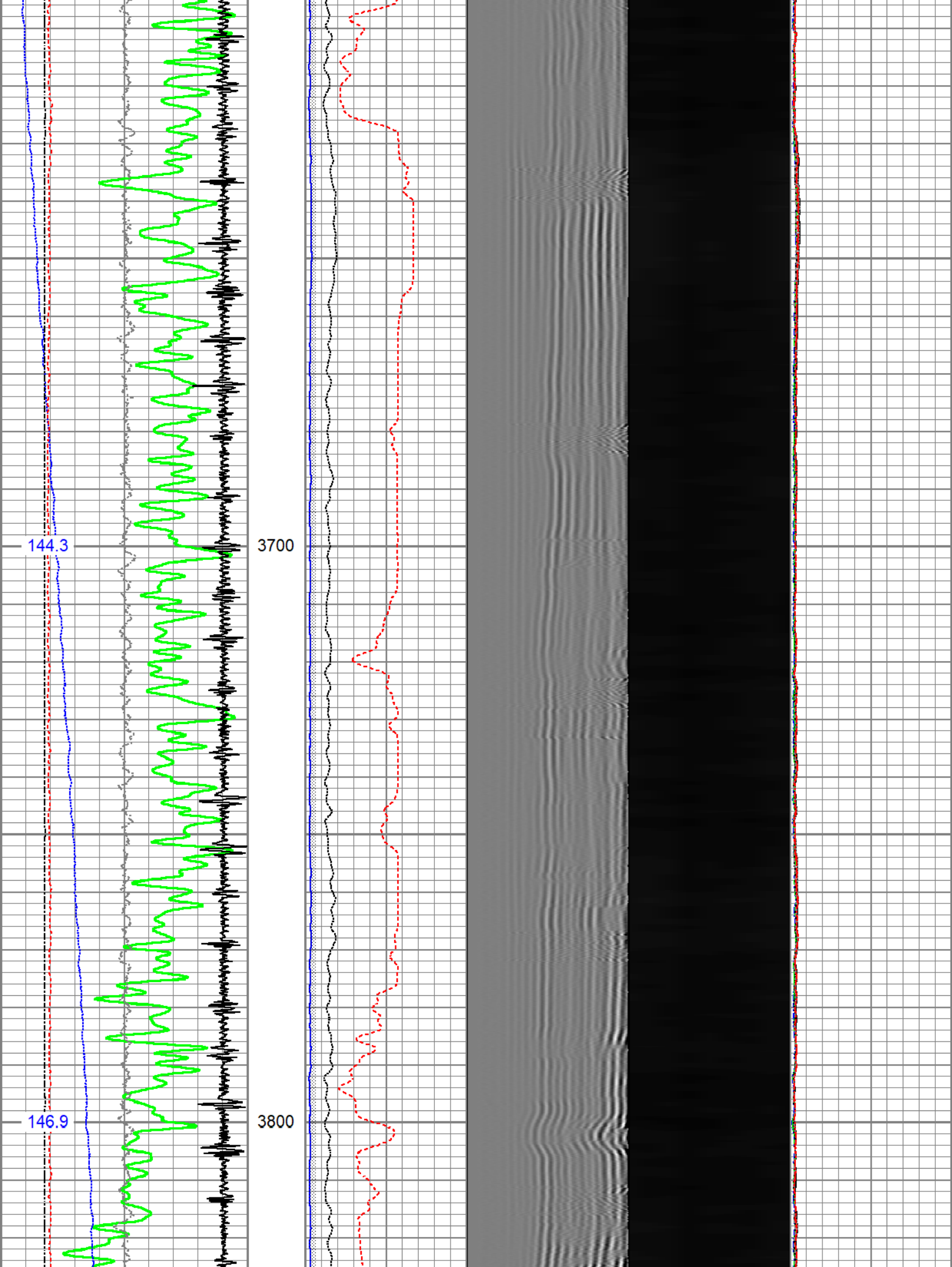
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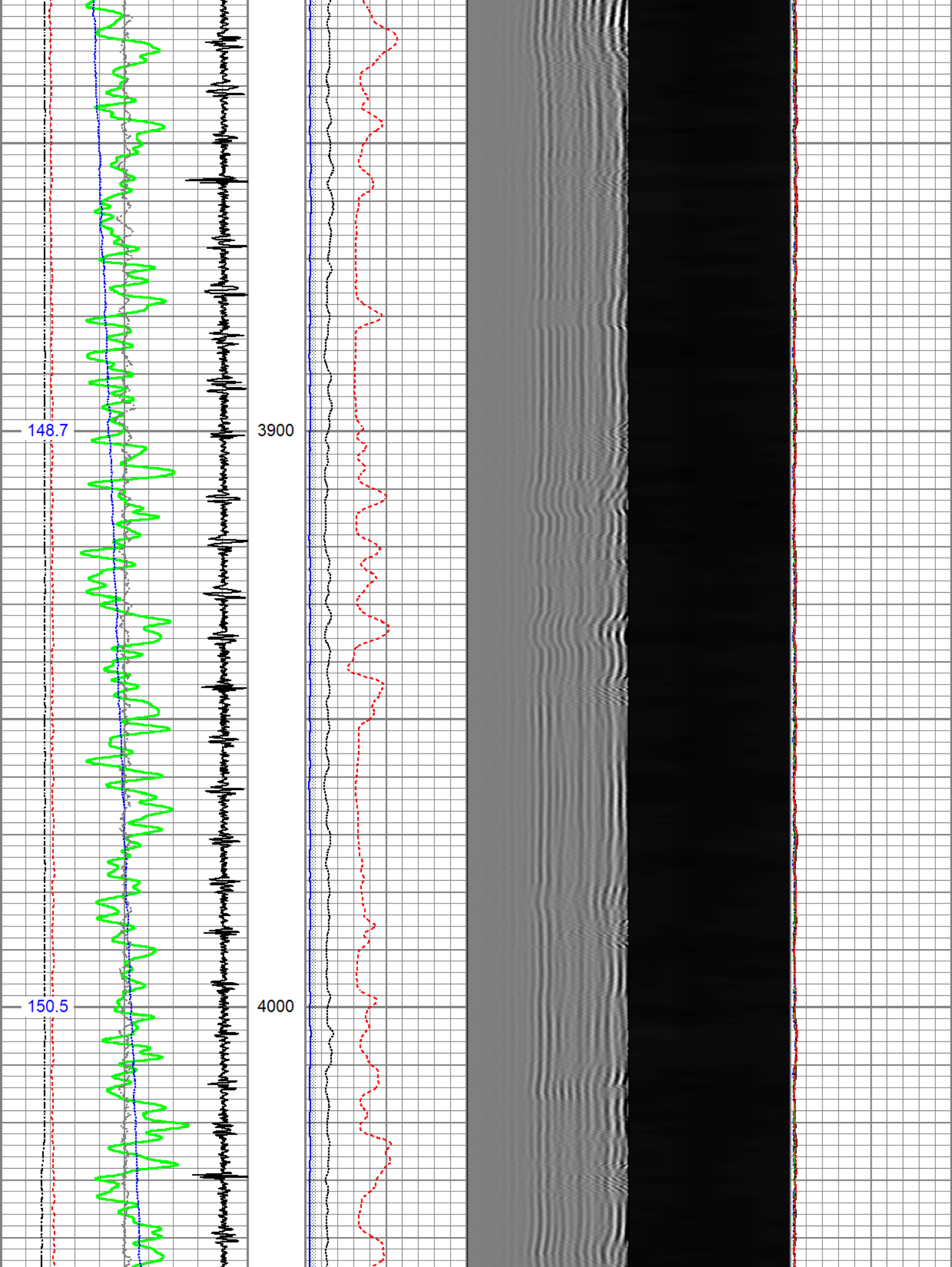
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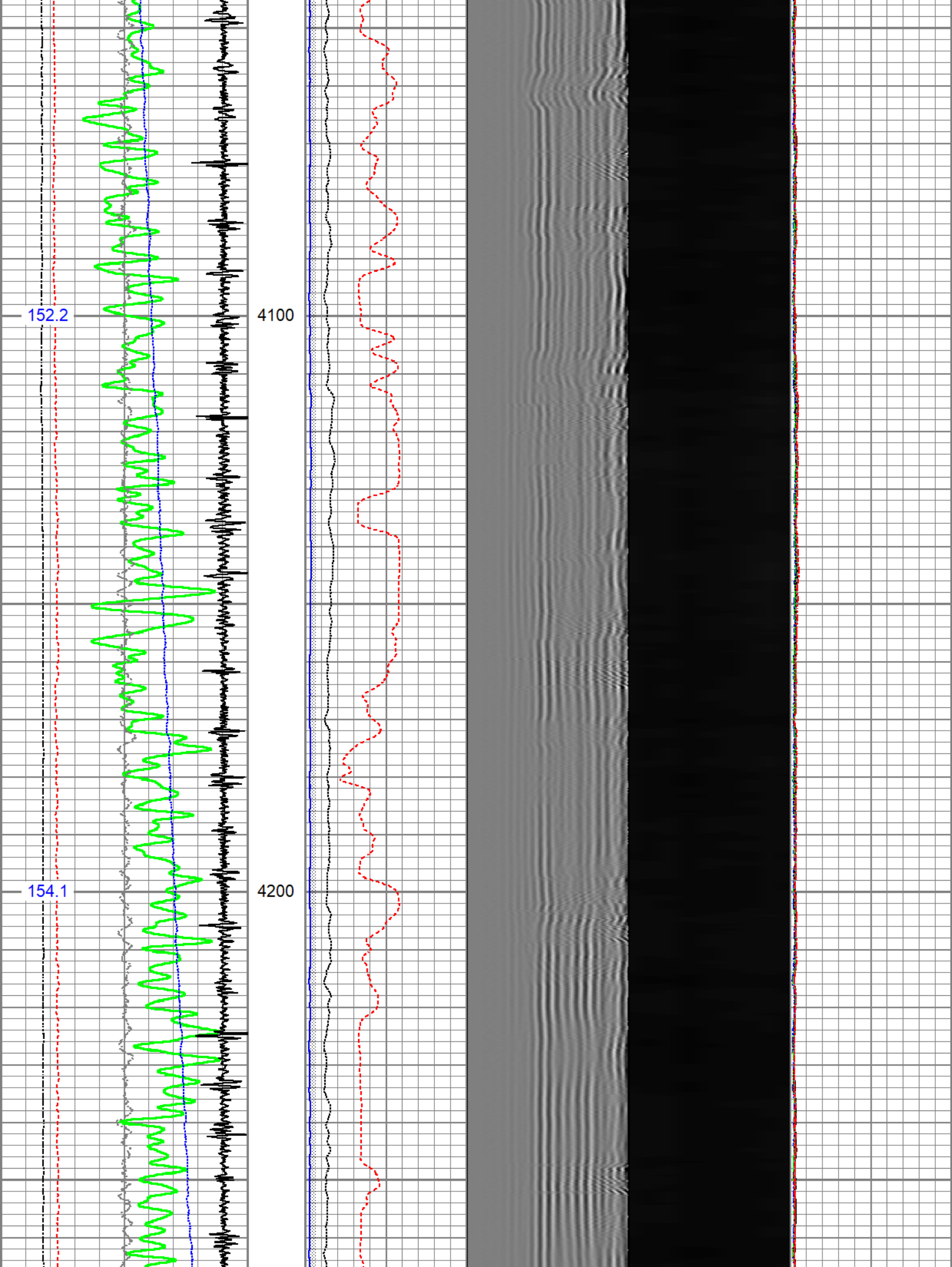


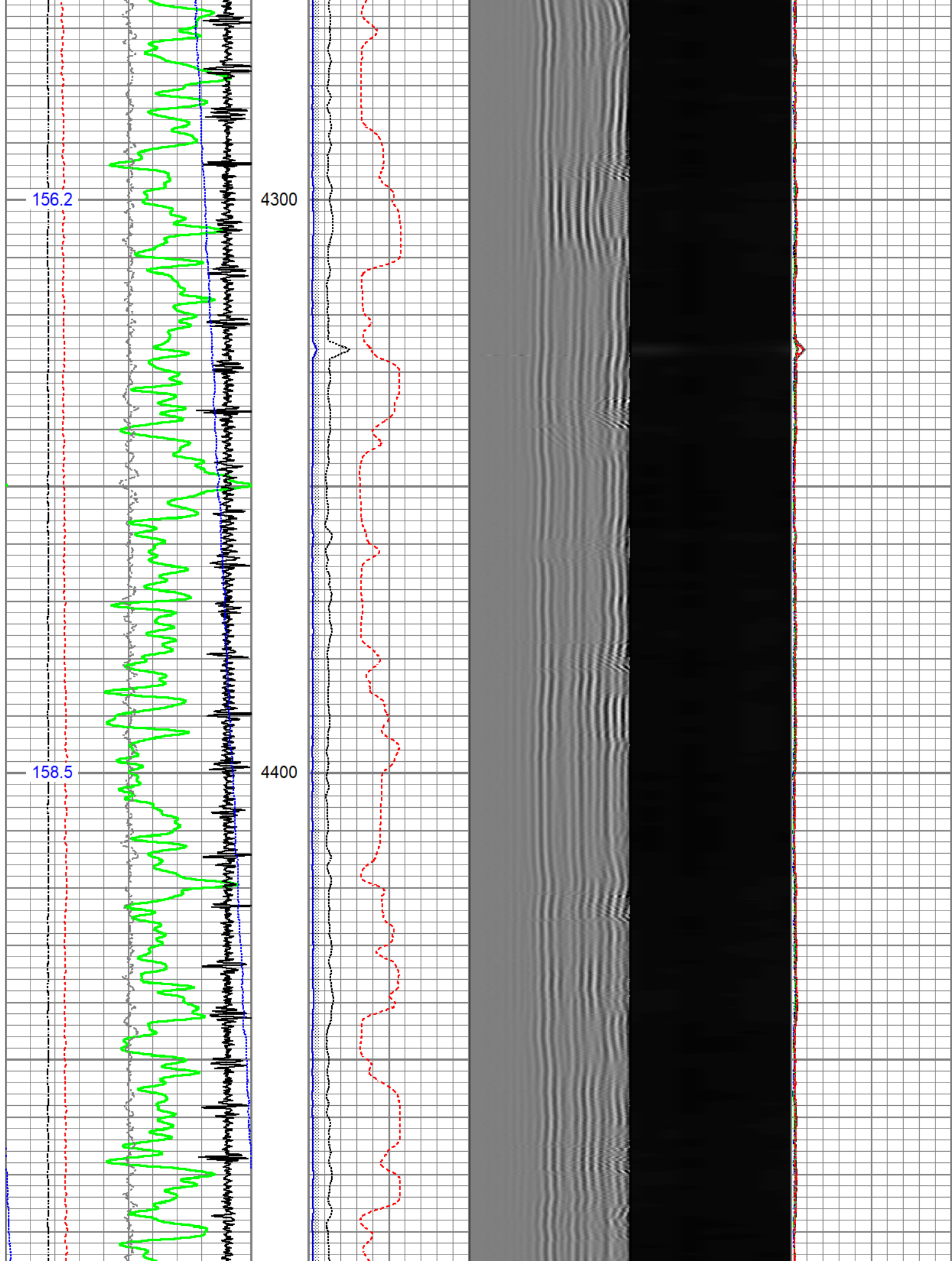


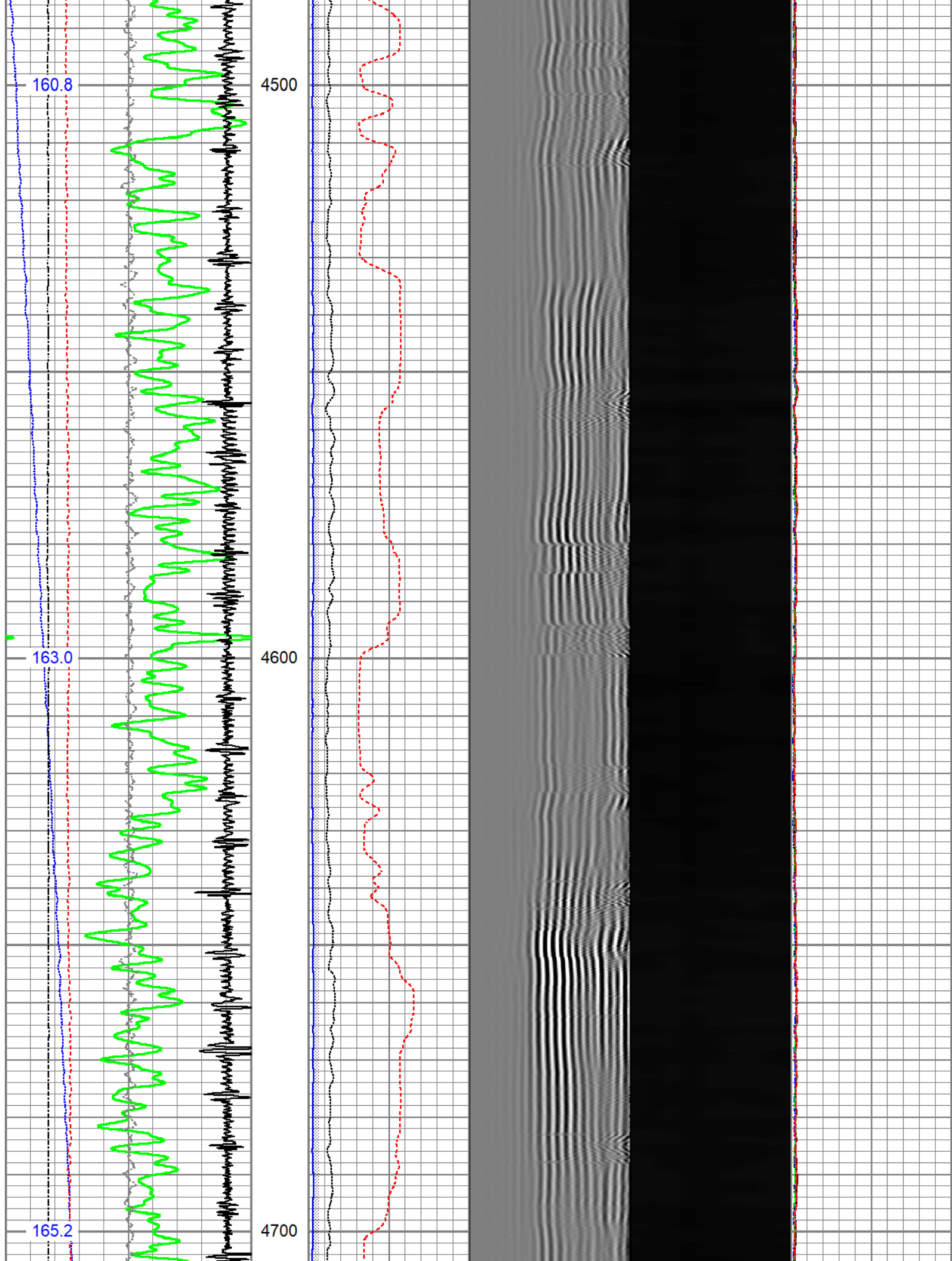


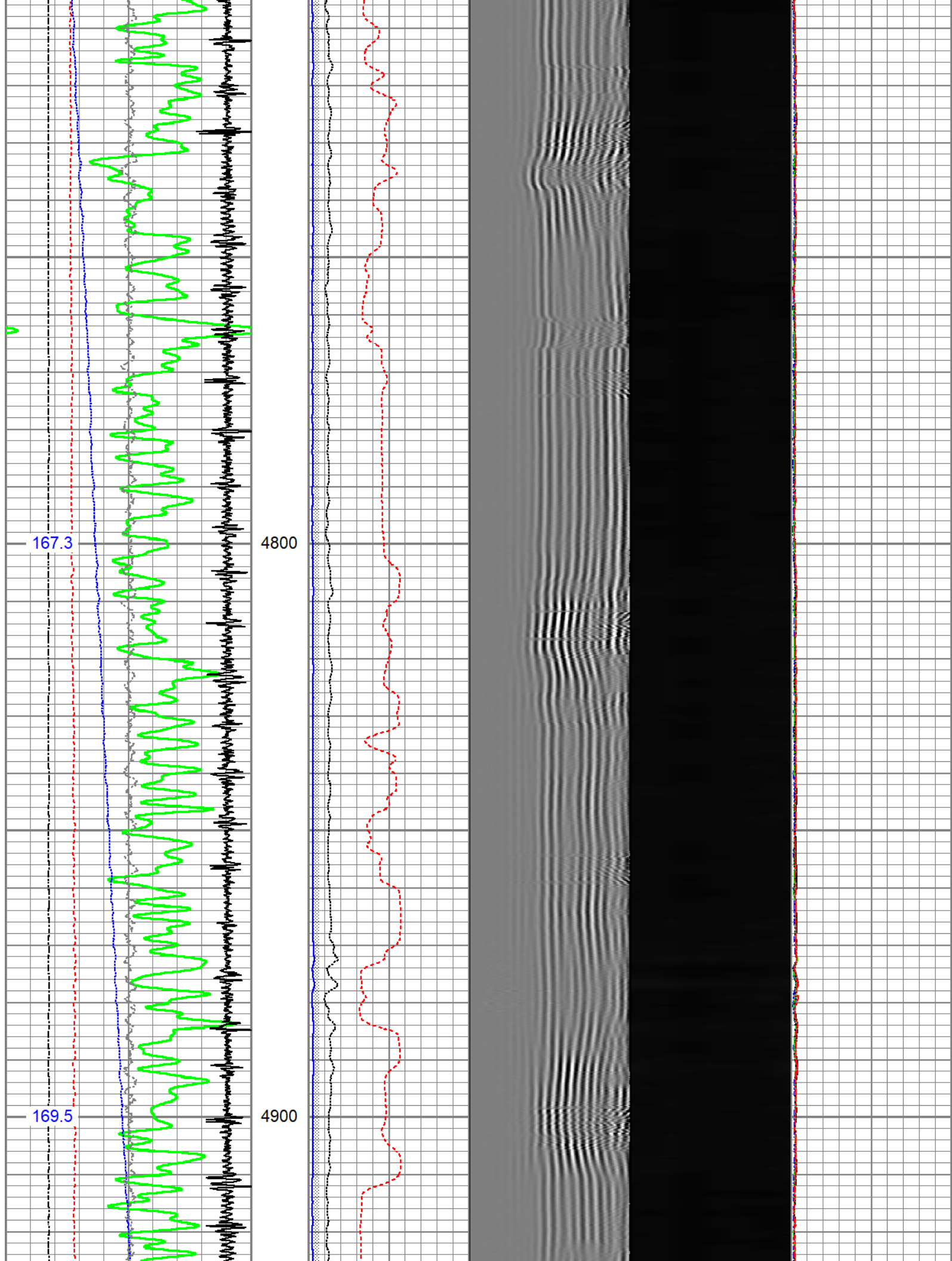




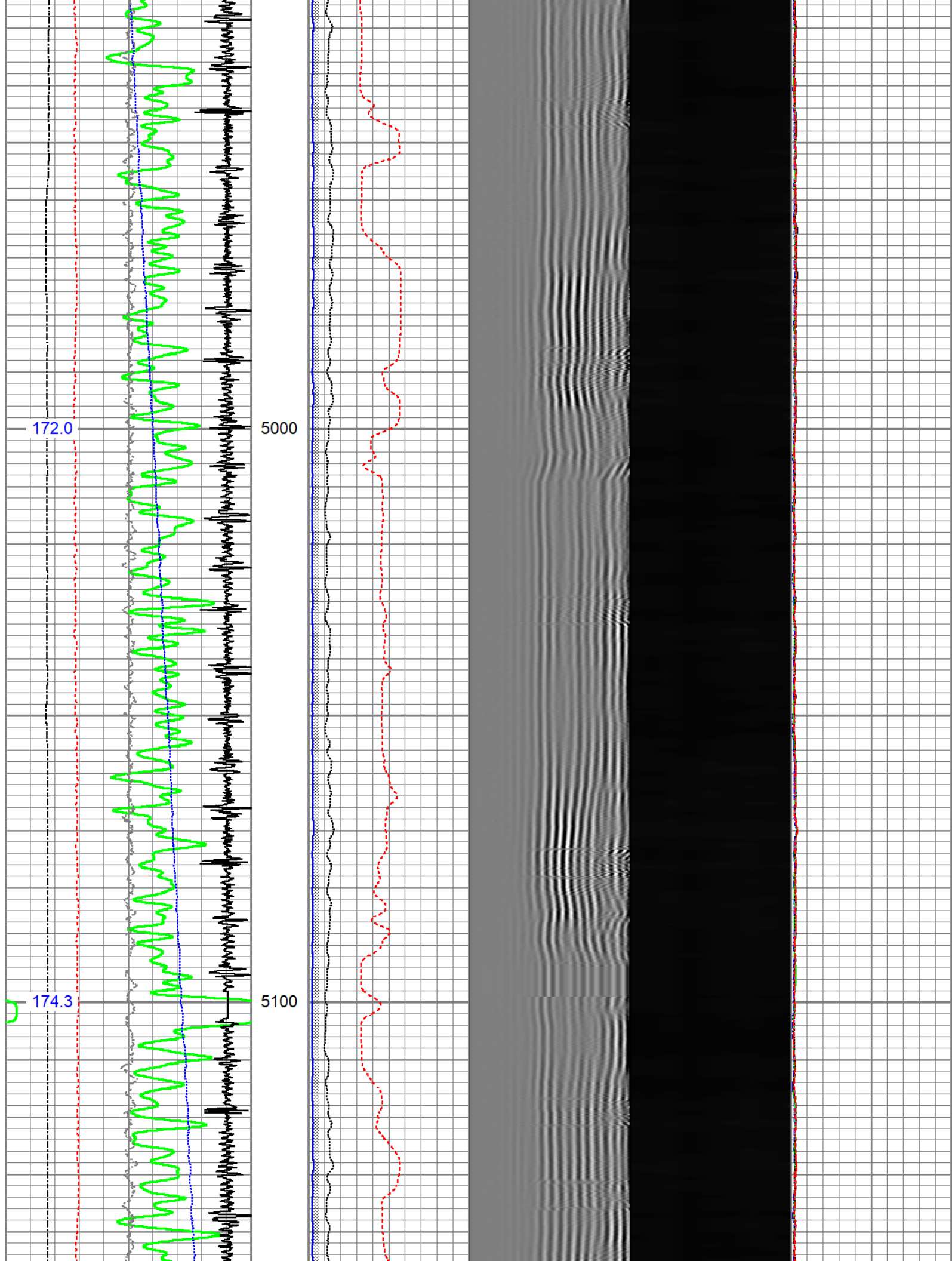


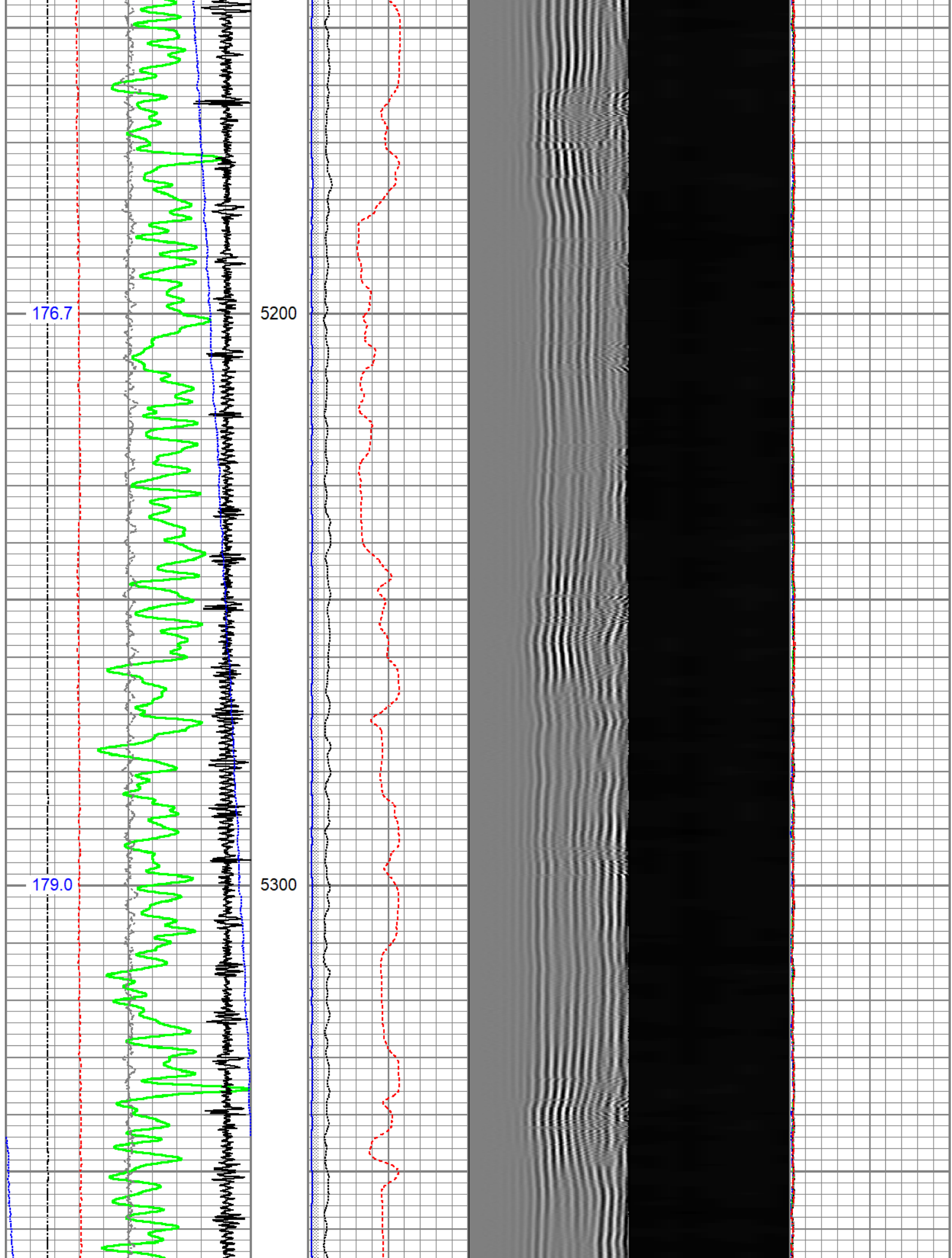




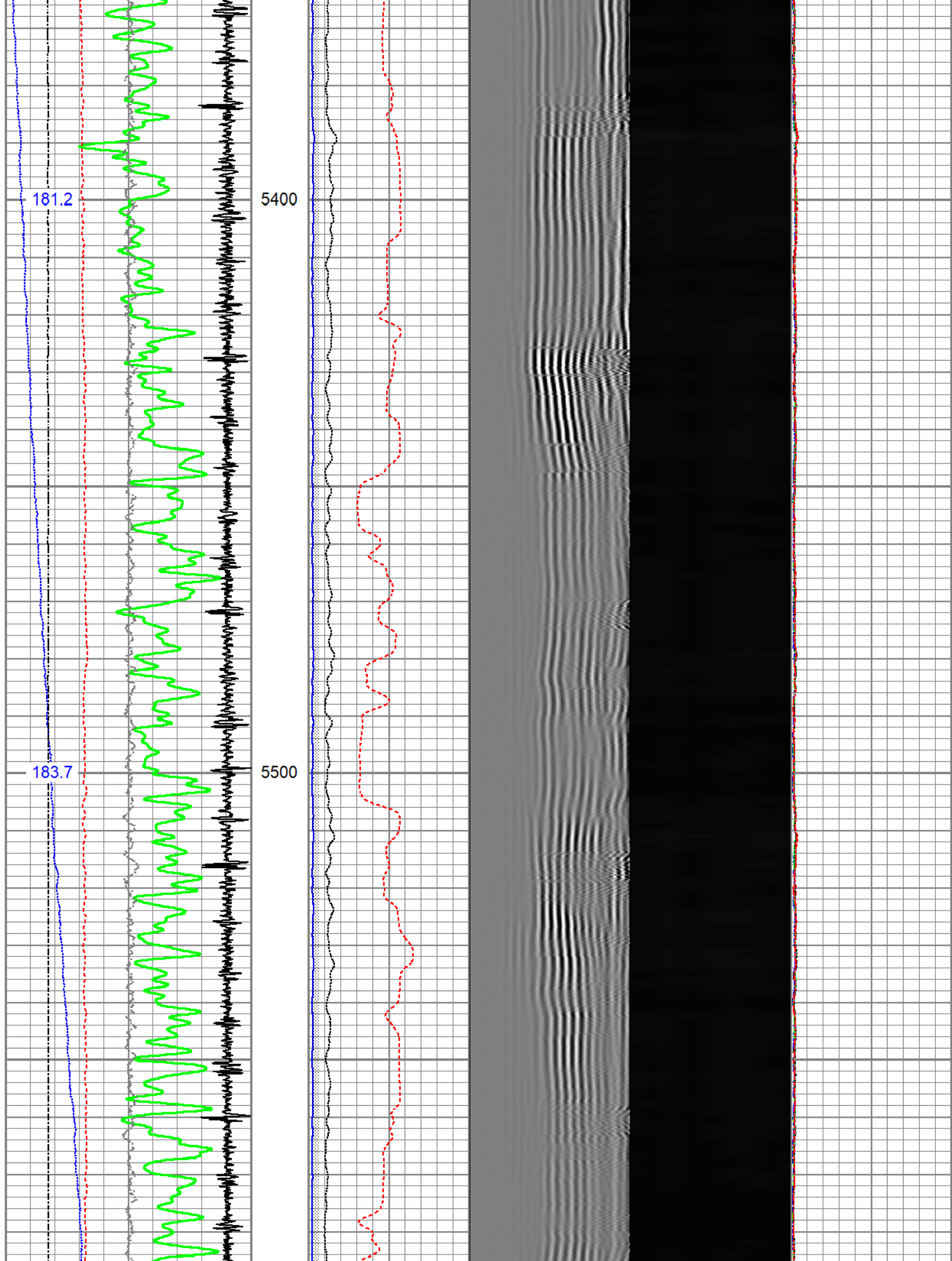


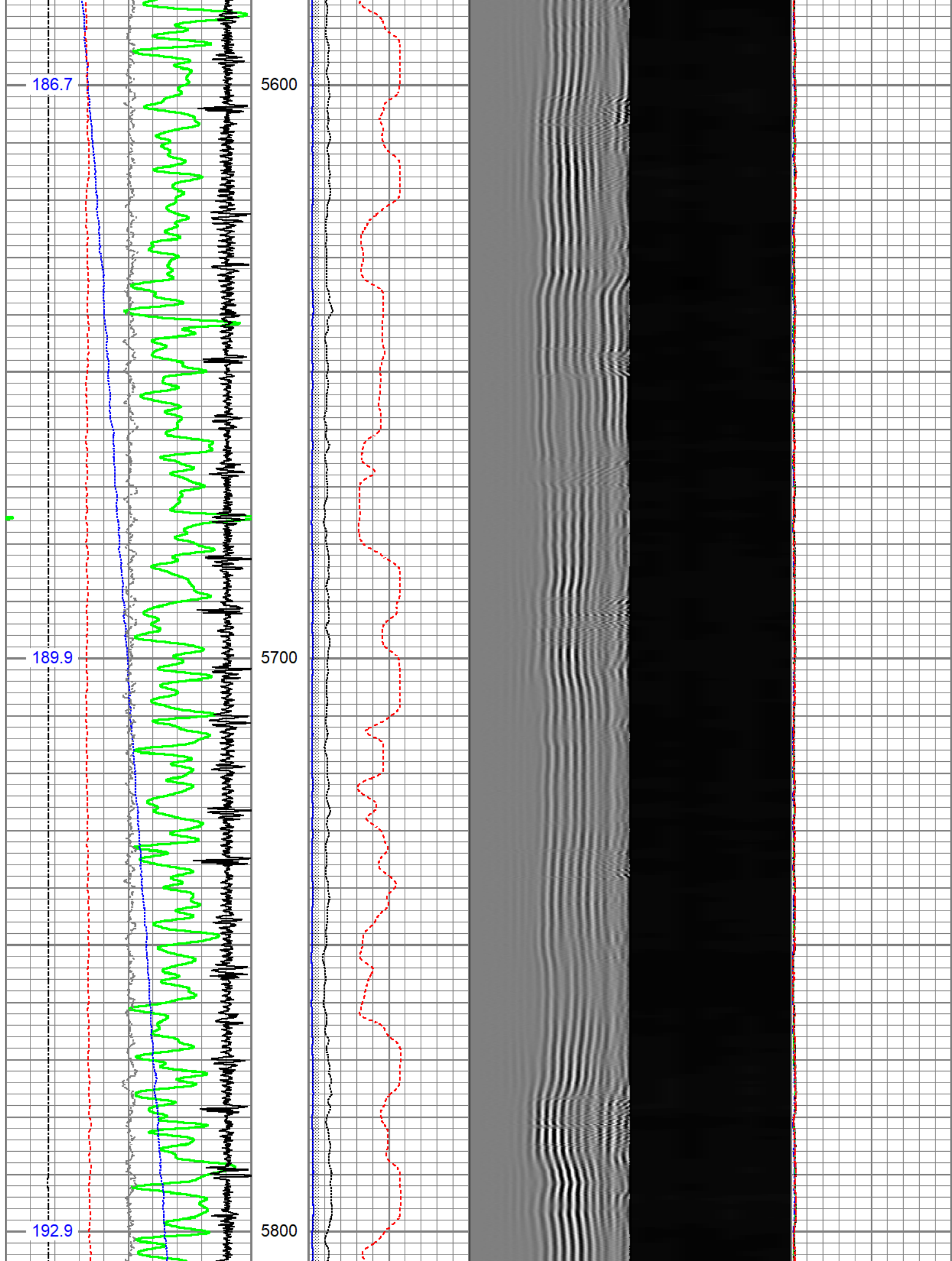


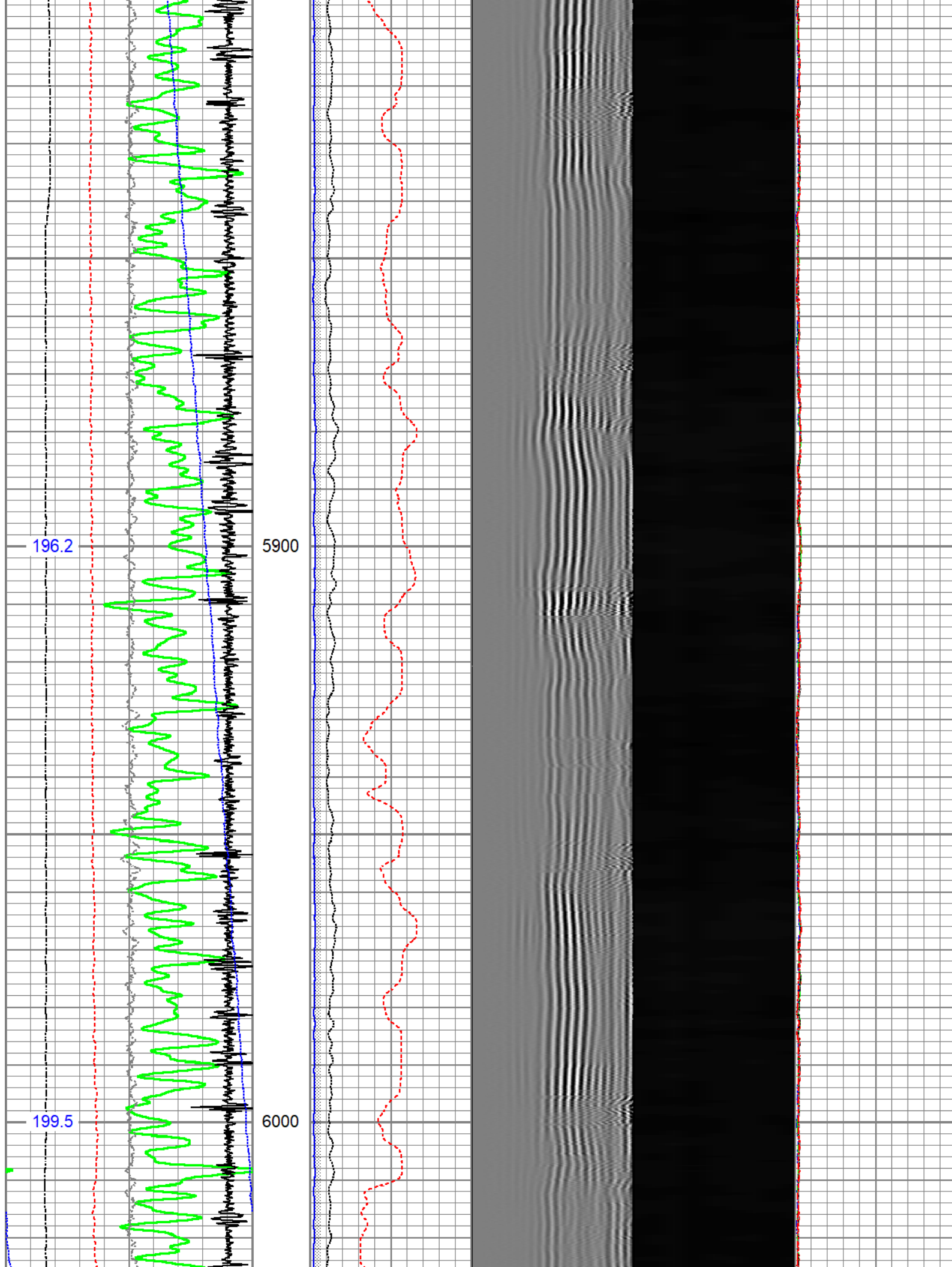


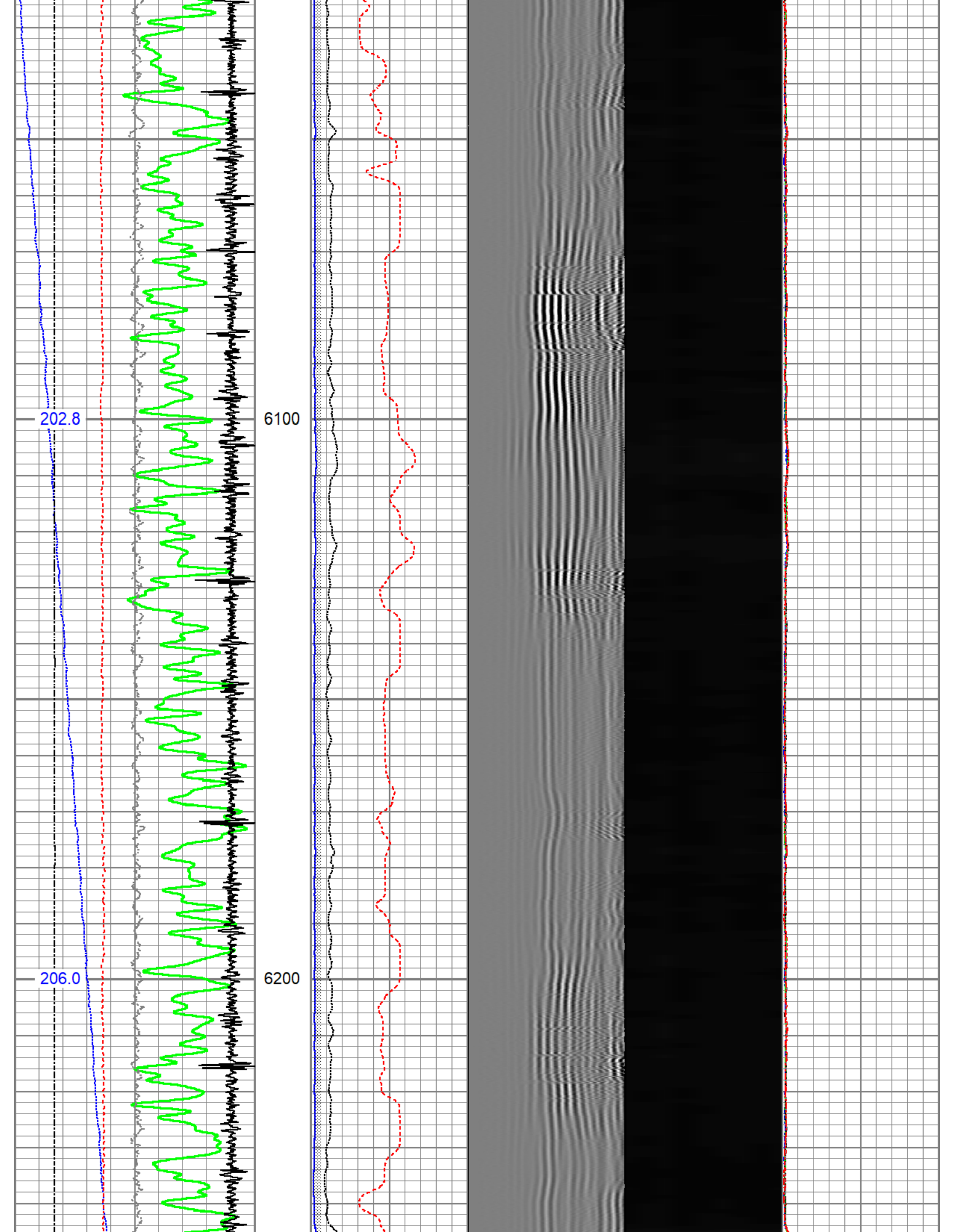




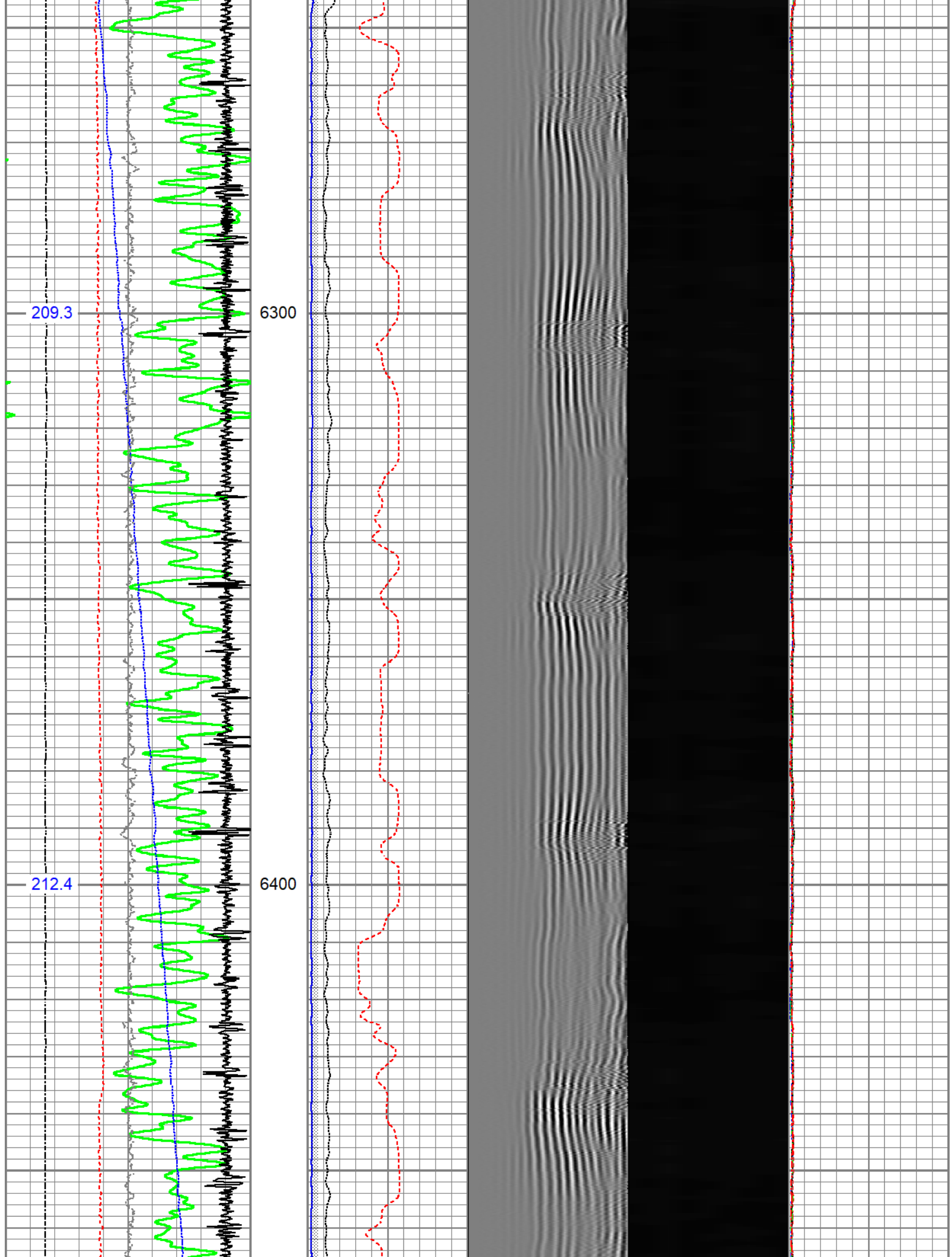


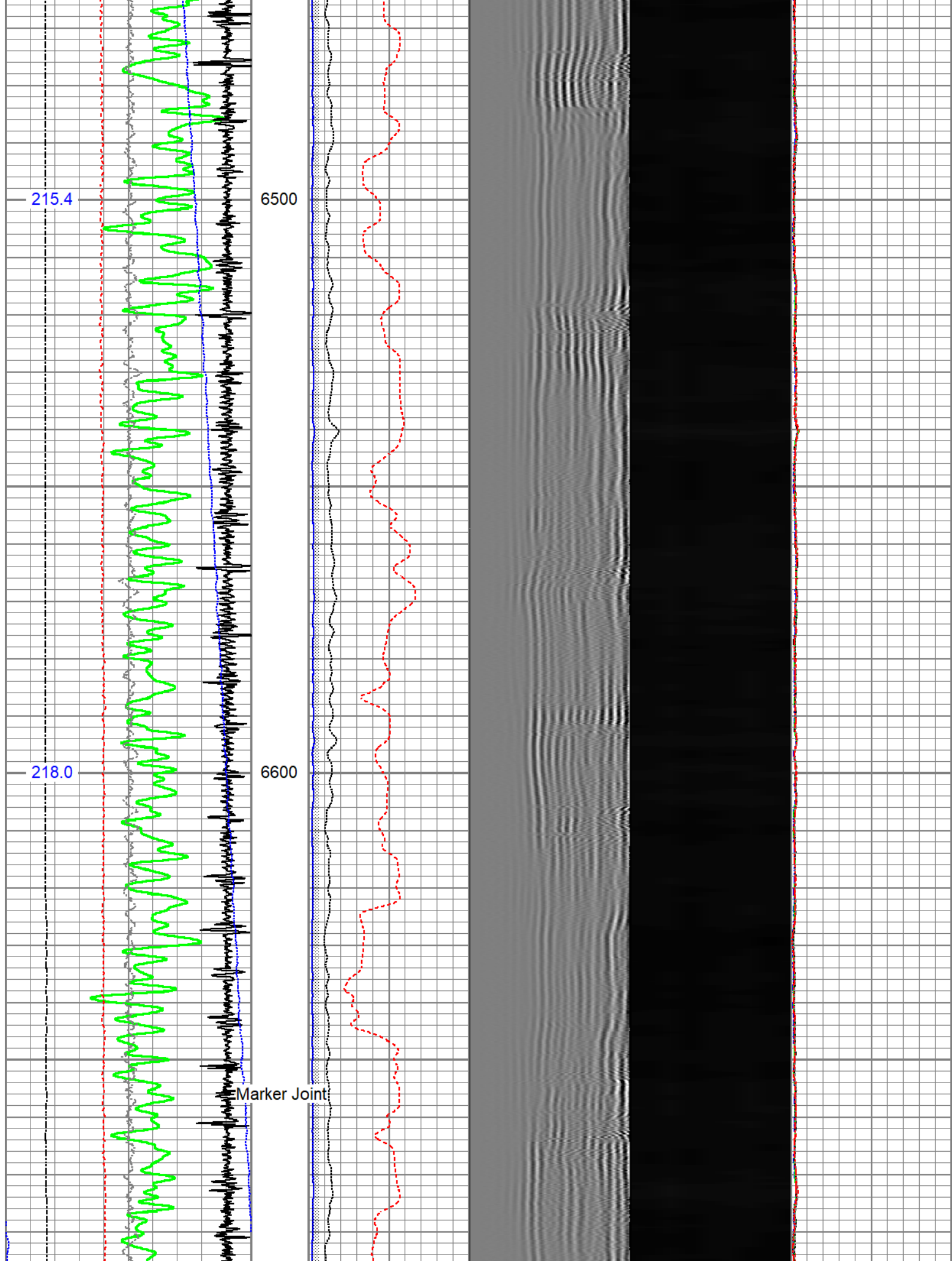


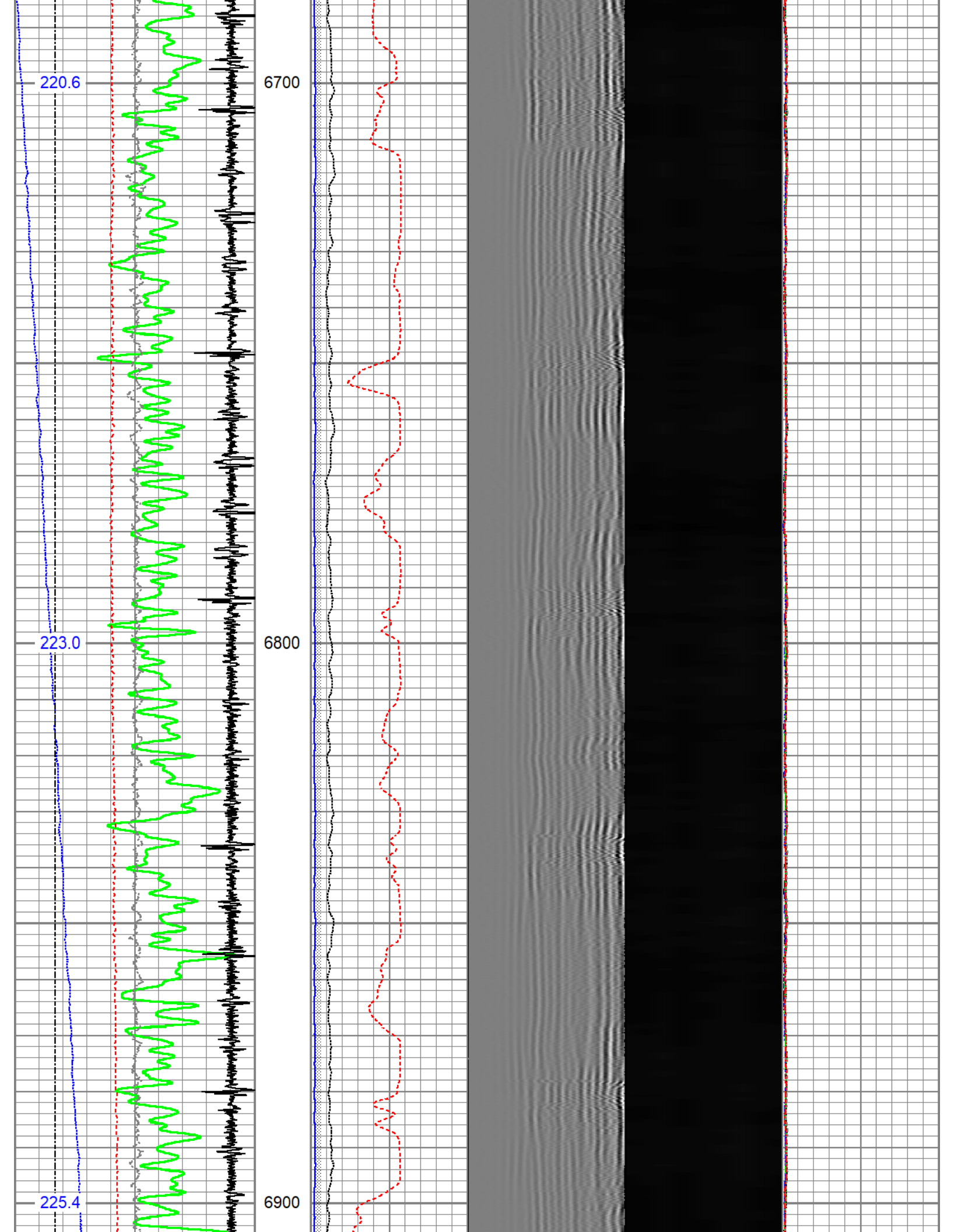


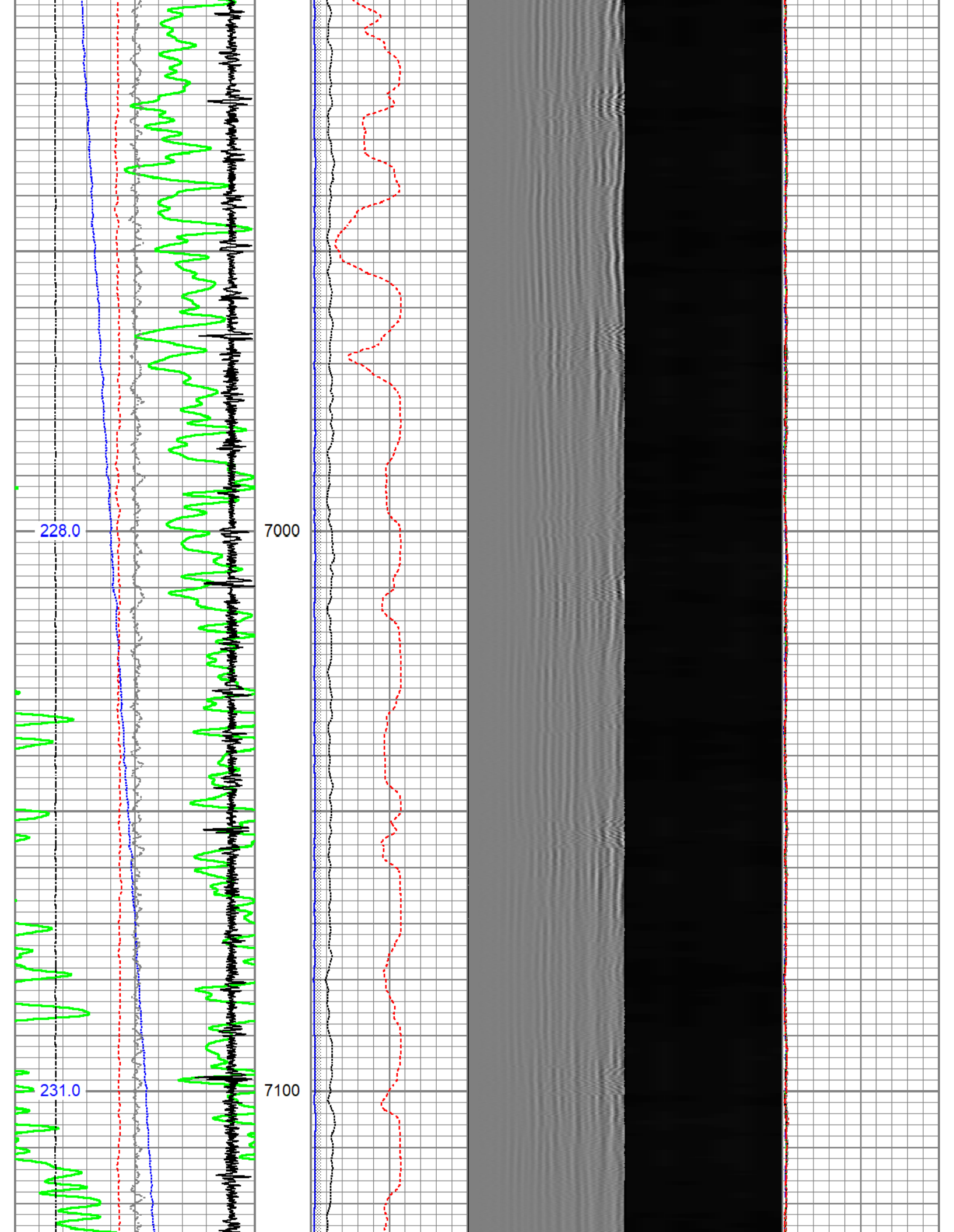




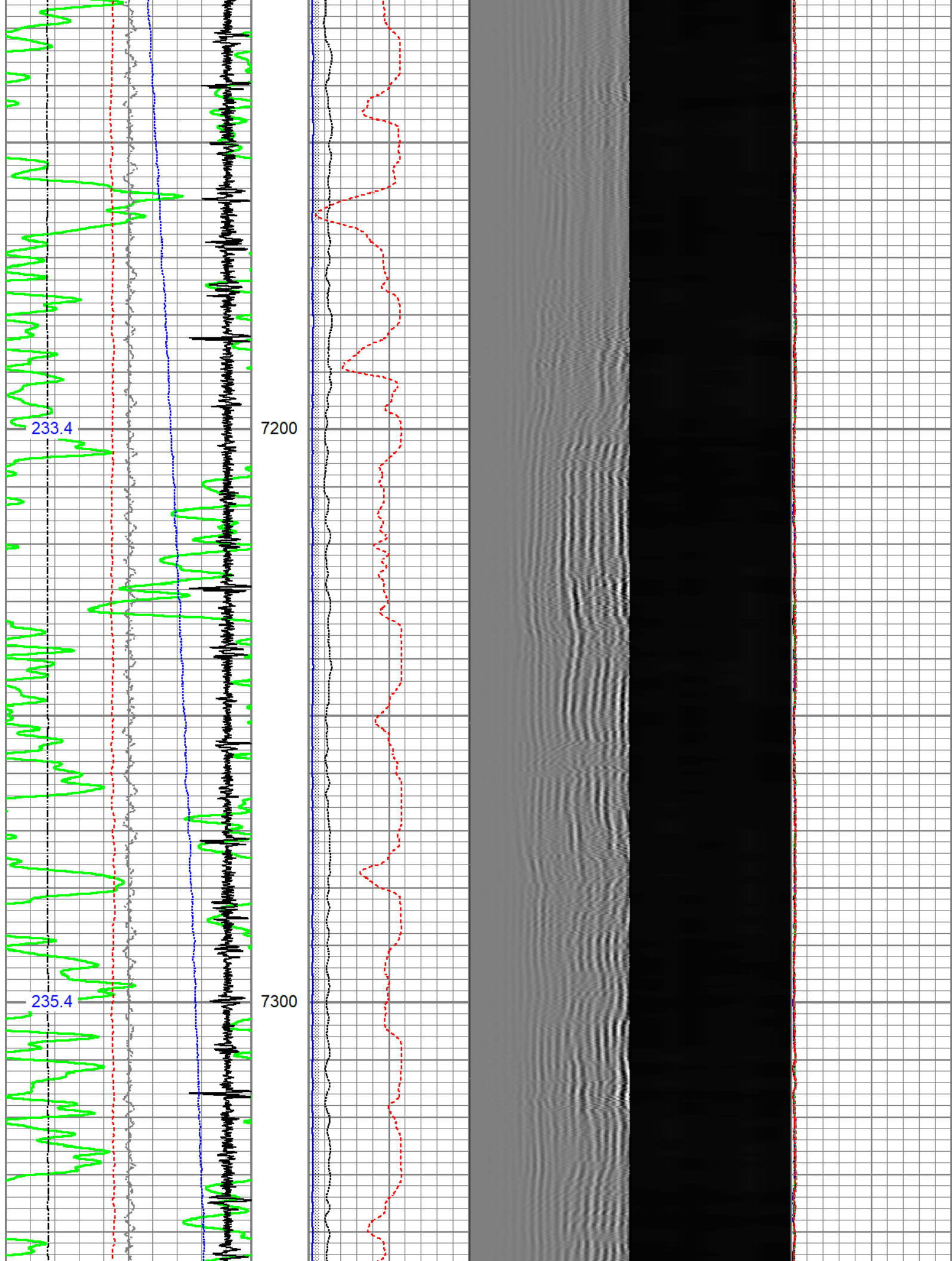


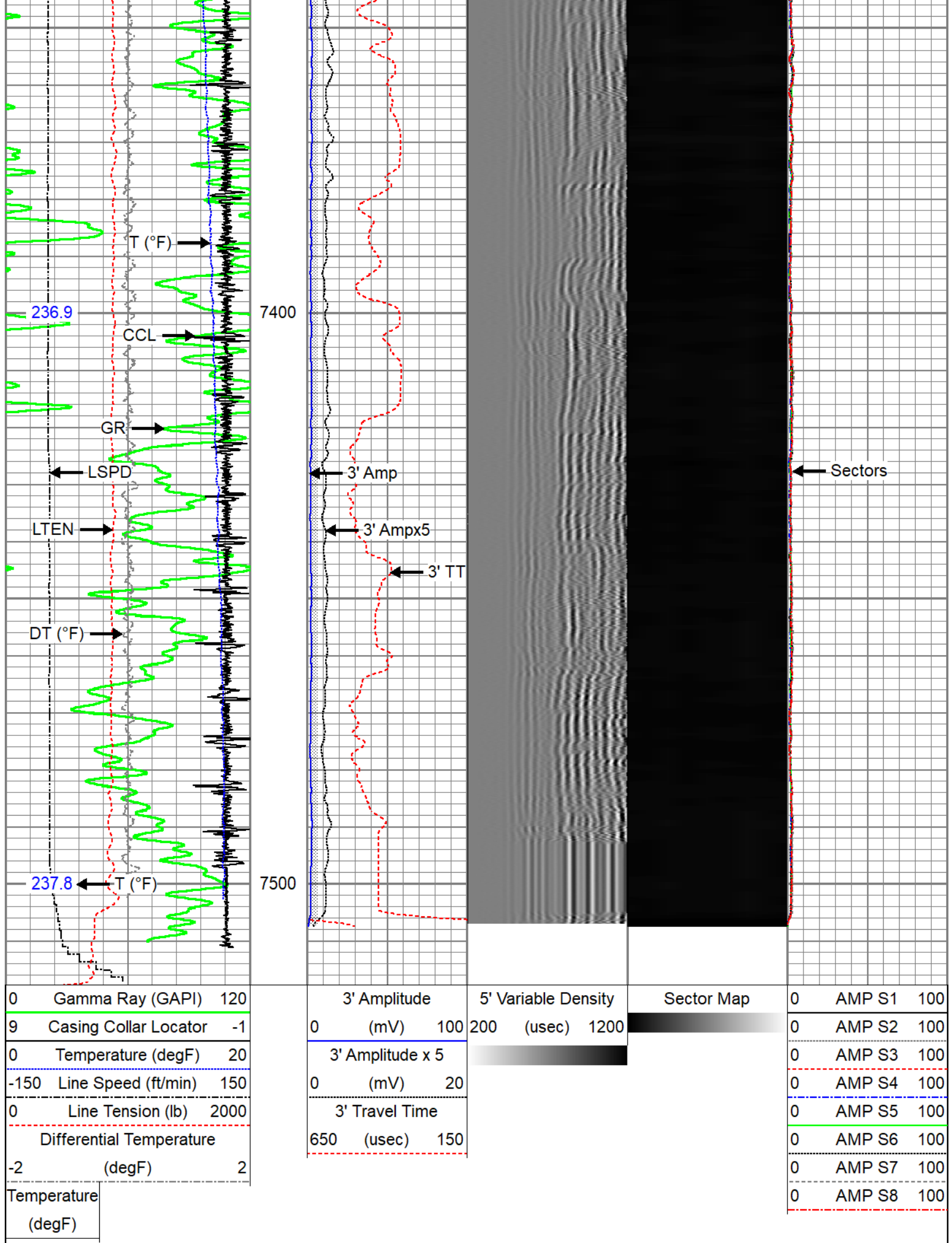












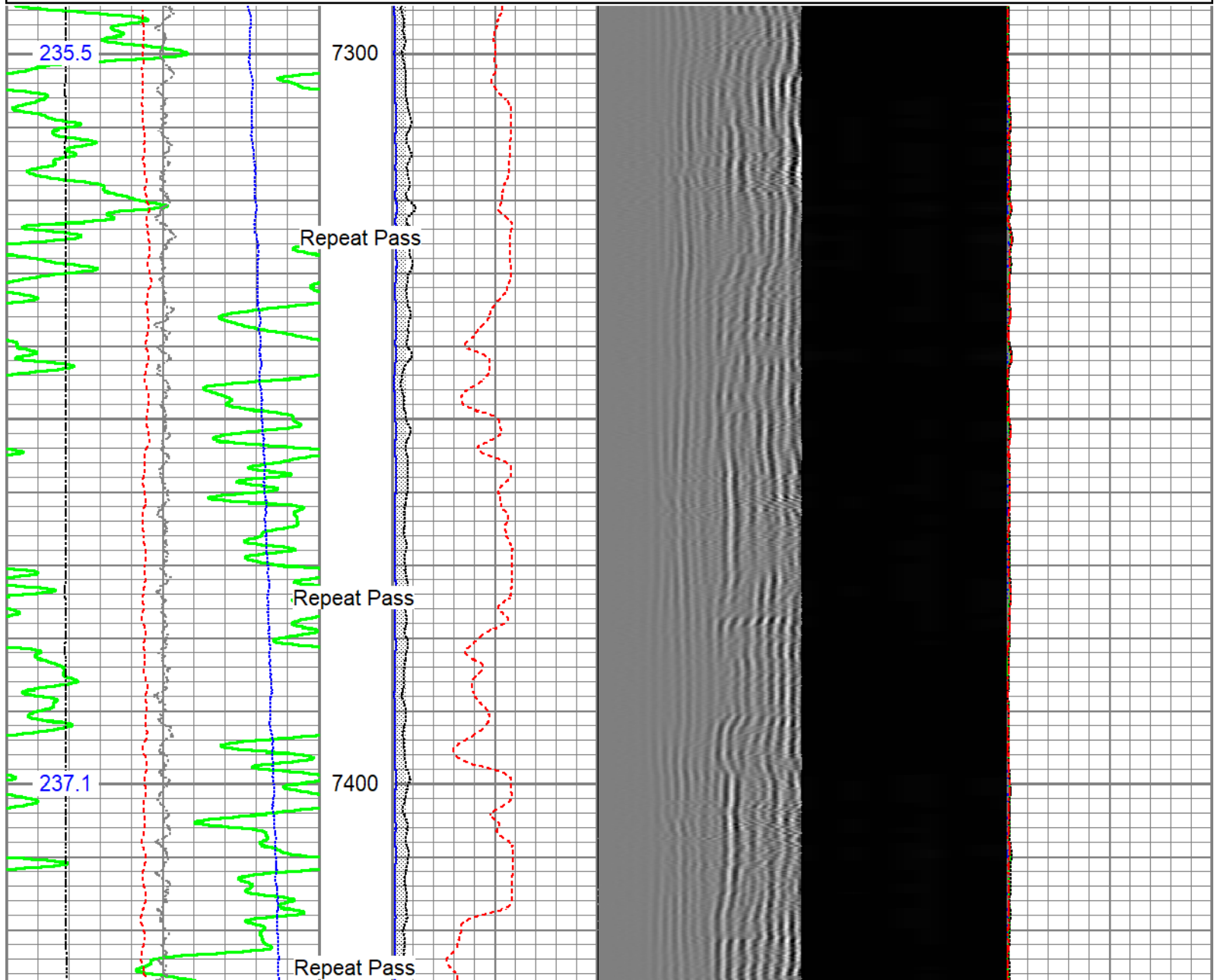


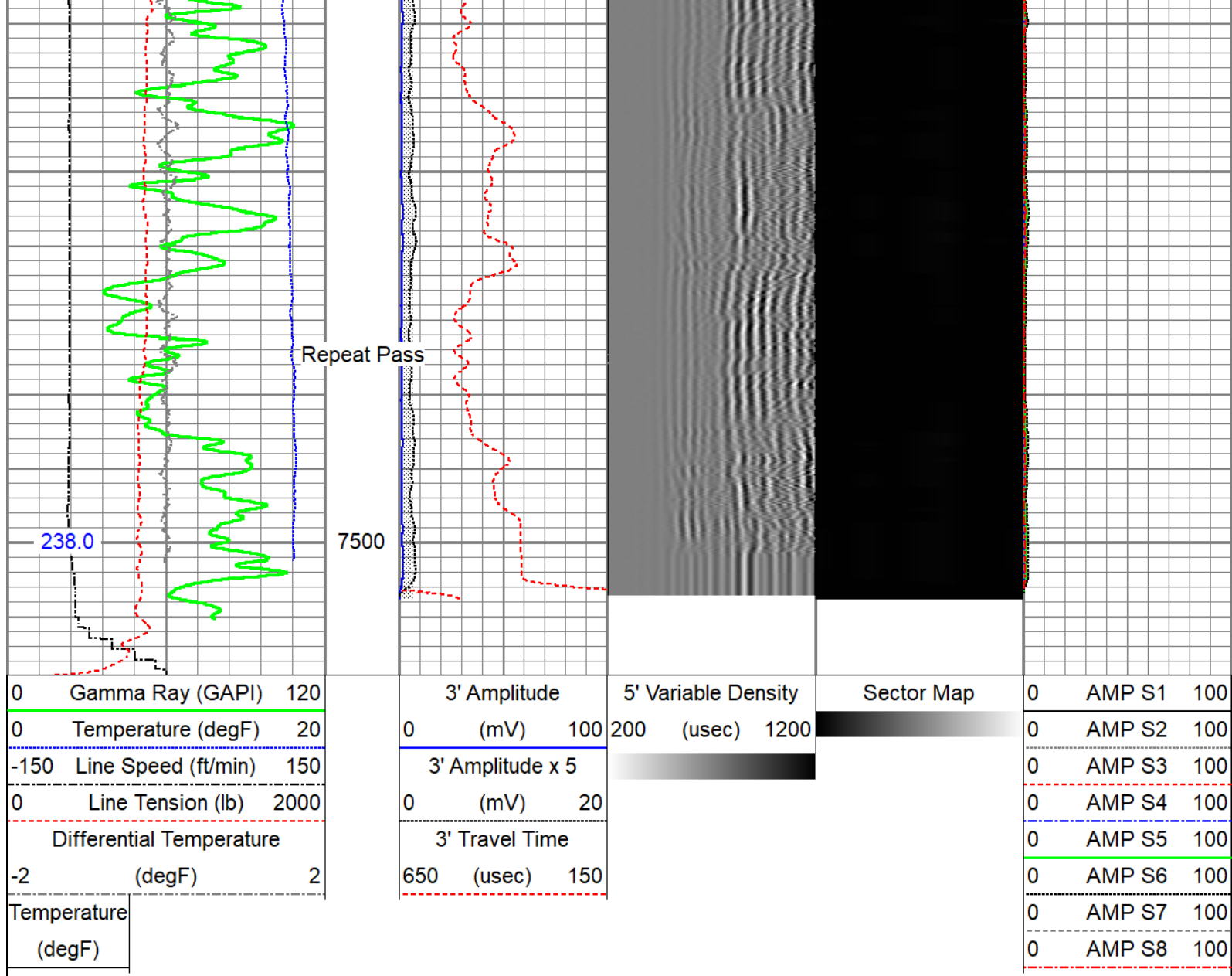
# Repeat Pass


Recorded with 2500 PSI Surface Induced Pressure

Database File noble energy\noble\_rampart a33-740\_rbl\_09-09-21\noble\_rampart a33-740\_rbl\_09-09-21.db  
Dataset Pathname Repeat  
Presentation Format edge\_rbl\_noble  
Dataset Creation Thu Sep 09 13:02:02 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)	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	Noble Energy Inc.
	Well	Rampart A33-740
	Field	Wattenberg
	County	Weld
	State	Colorado