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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 6306.5 - 6326.6 FT Adjusted -29 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						
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: noble_rampart a32-751_rbl_10-07-21.db: field/well/run1/main.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: -71.812 ft

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

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.693	0.800	71.921	102.702	0.787
CAL	0.642	0.642				
5'	-0.001	0.595	0.800	71.921	119.503	0.873
SUM						
S1	0.001	0.683	0.000	100.000	146.582	-0.098
S2	0.000	0.667	0.000	100.000	150.095	-0.046
S3	0.000	0.678	0.000	100.000	147.648	-0.045
S4	0.001	0.731	0.000	100.000	136.849	-0.088
S5	0.001	0.752	0.000	100.000	133.194	-0.139
S6	0.001	0.734	0.000	100.000	136.390	-0.116
S7	0.000	0.699	0.000	100.000	143.151	-0.045
S8	0.001	0.691	0.000	100.000	144.988	-0.119

#### Air Zero Calibration, performed Wed Oct 6 10:24:53 2021:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.006	0.000	-0.000
5'	0.010	0.000	-0.001
SUM			
S1	0.007	0.000	0.000
S2	0.007	0.000	0.000
S3	0.009	0.000	0.000
S4	0.008	0.000	0.000
S5	0.008	0.000	0.001
S6	0.007	0.000	0.001
S7	0.008	0.000	0.000
S8	0.007	0.000	0.001

### 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	

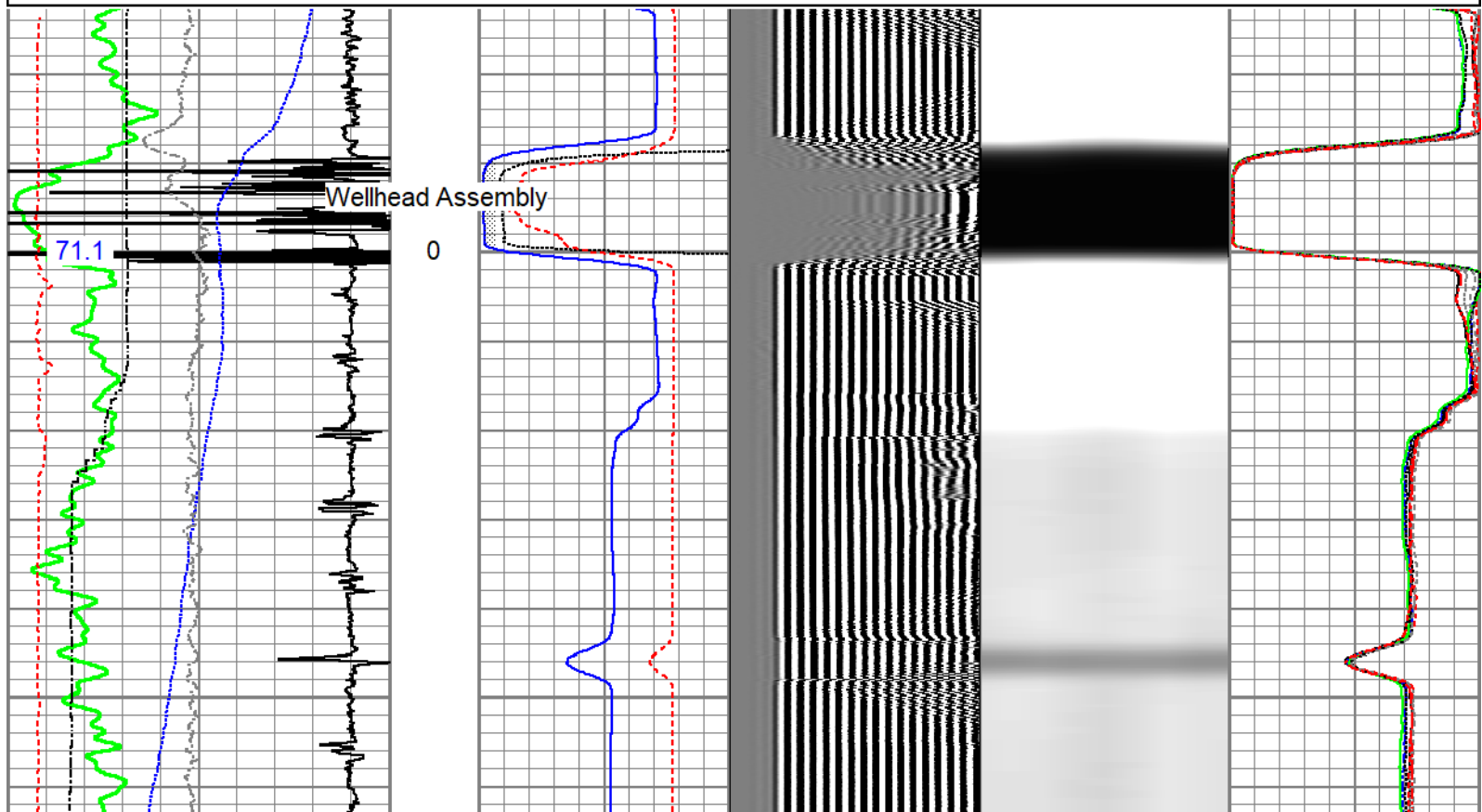


## Main Pass

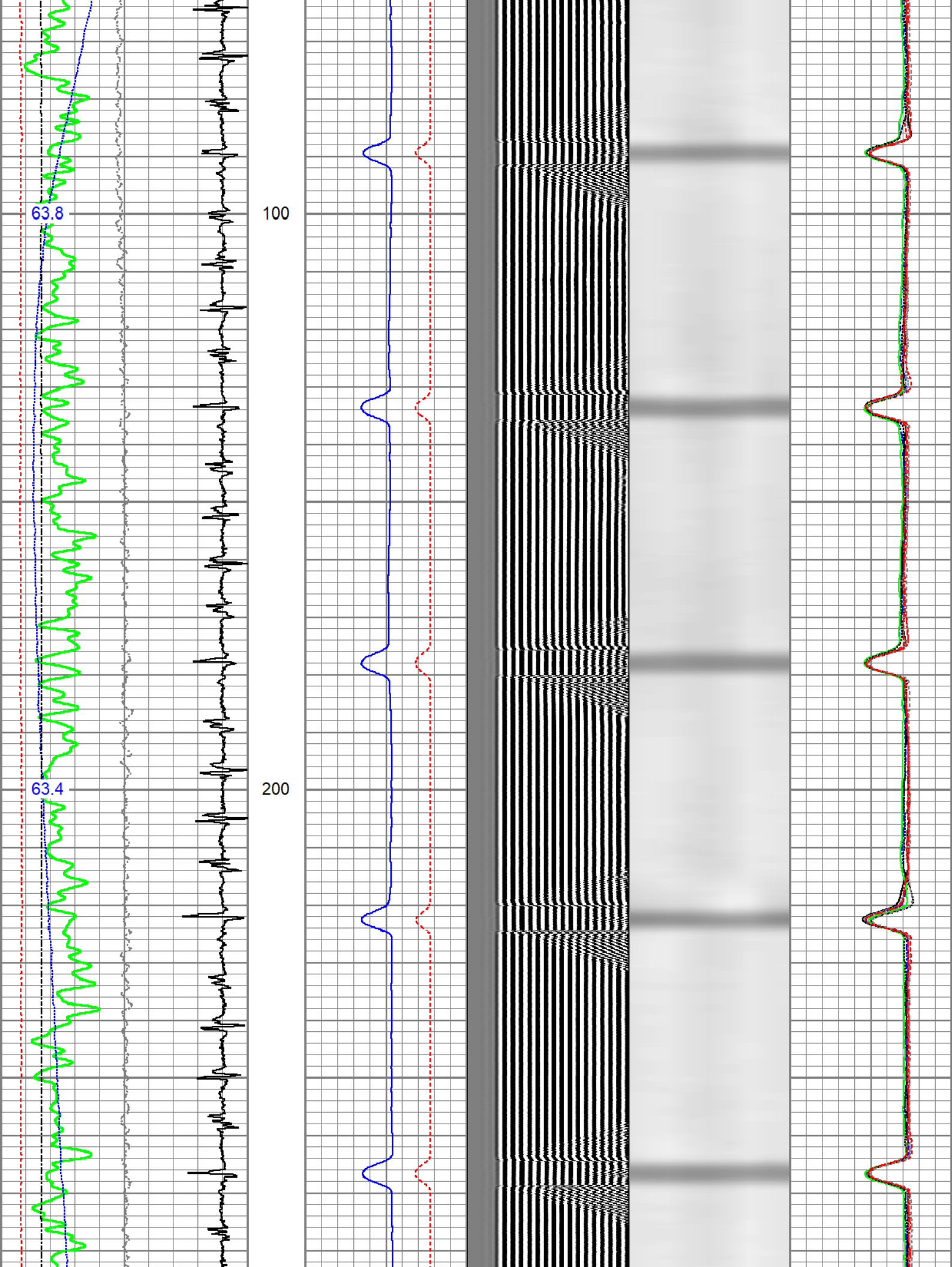
Recorded with 2500 PSI Surface Induced Pressure

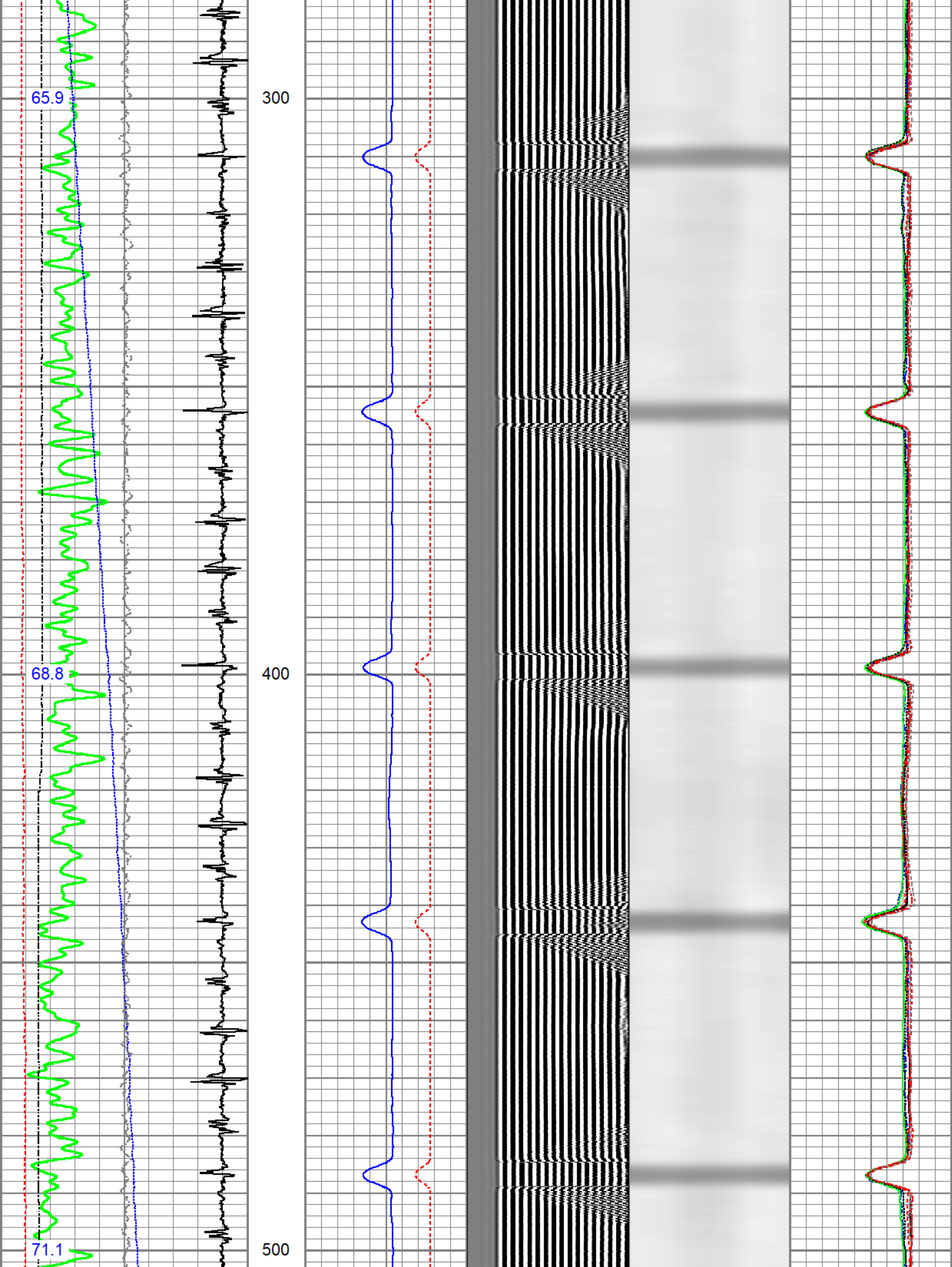
Database File	chevron_noble\noble_rampart a32-751_rbl_10-07-21\noble_rampart a32-751_rbl_10-07-21.db
Dataset Pathname	main.1
Presentation Format	edge_rbl_noble
Dataset Creation	Thu Oct 07 09:50:43 2021
Charted by	Depth in Feet scaled 1:240

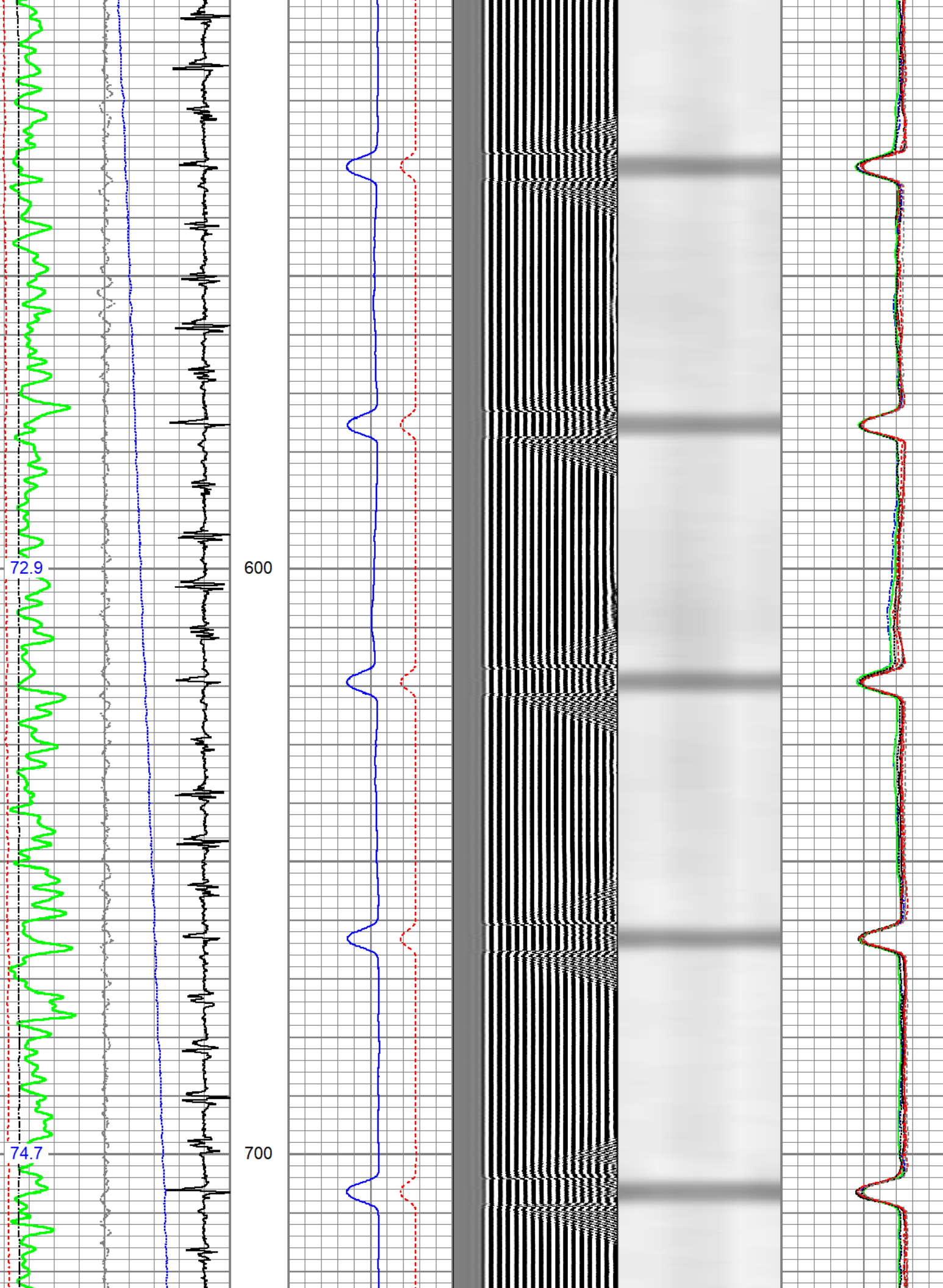
0	Gamma Ray (GAPI)	120	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
3.6	Casing Collar Locator	1.2	0 (mV)	200 (usec)	1200	0	AMP S2	100
0	Temperature (degF)	20	3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150	0 (mV)	20		0	AMP S4	100
0	Line Tension (lb)	2000	3' Travel Time			0	AMP S5	100
	Differential Temperature		650 (usec)	150		0	AMP S6	100
-2	(degF)	2				0	AMP S7	100
Temperature						0	AMP S8	100
(degF)								

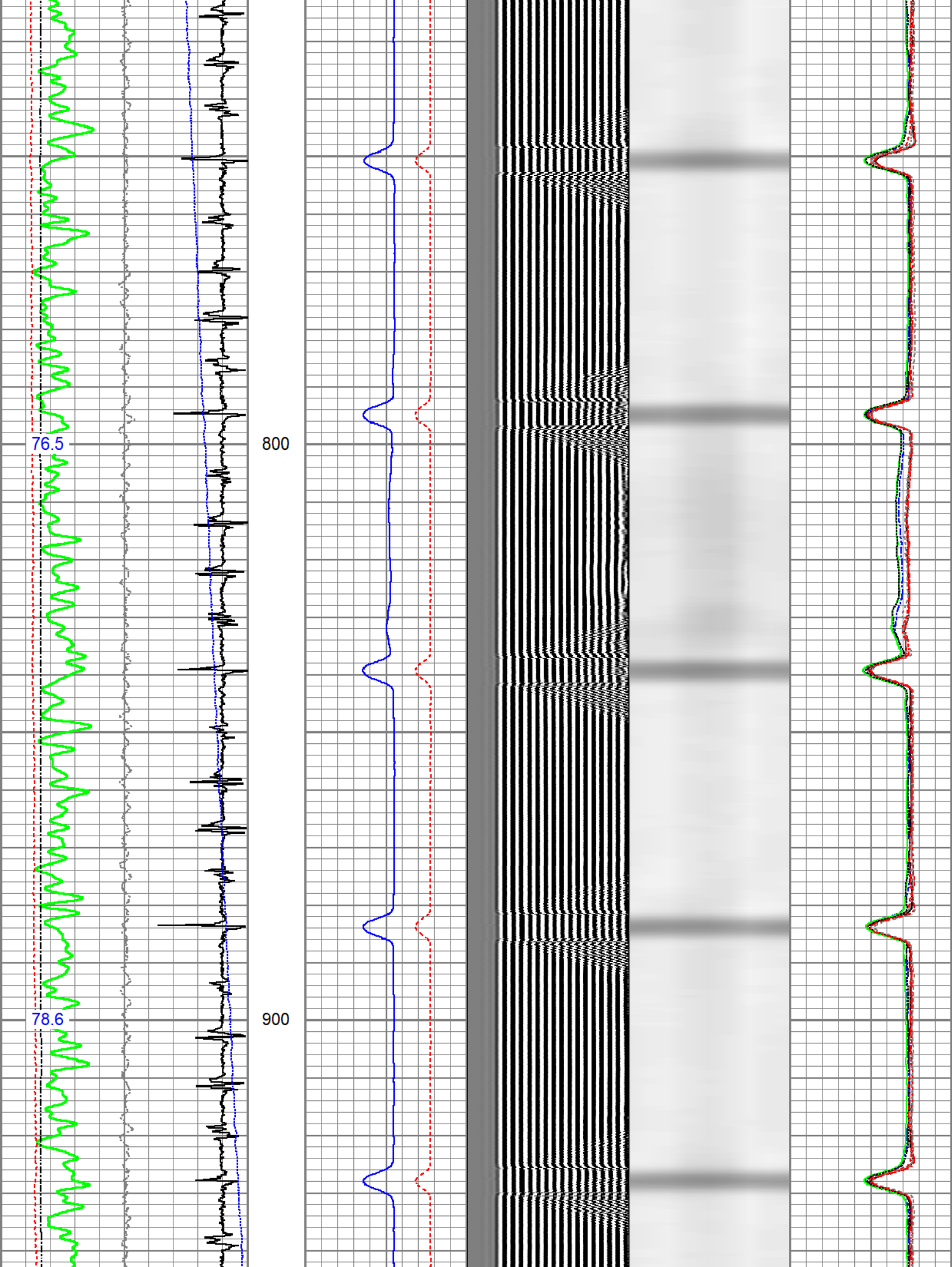




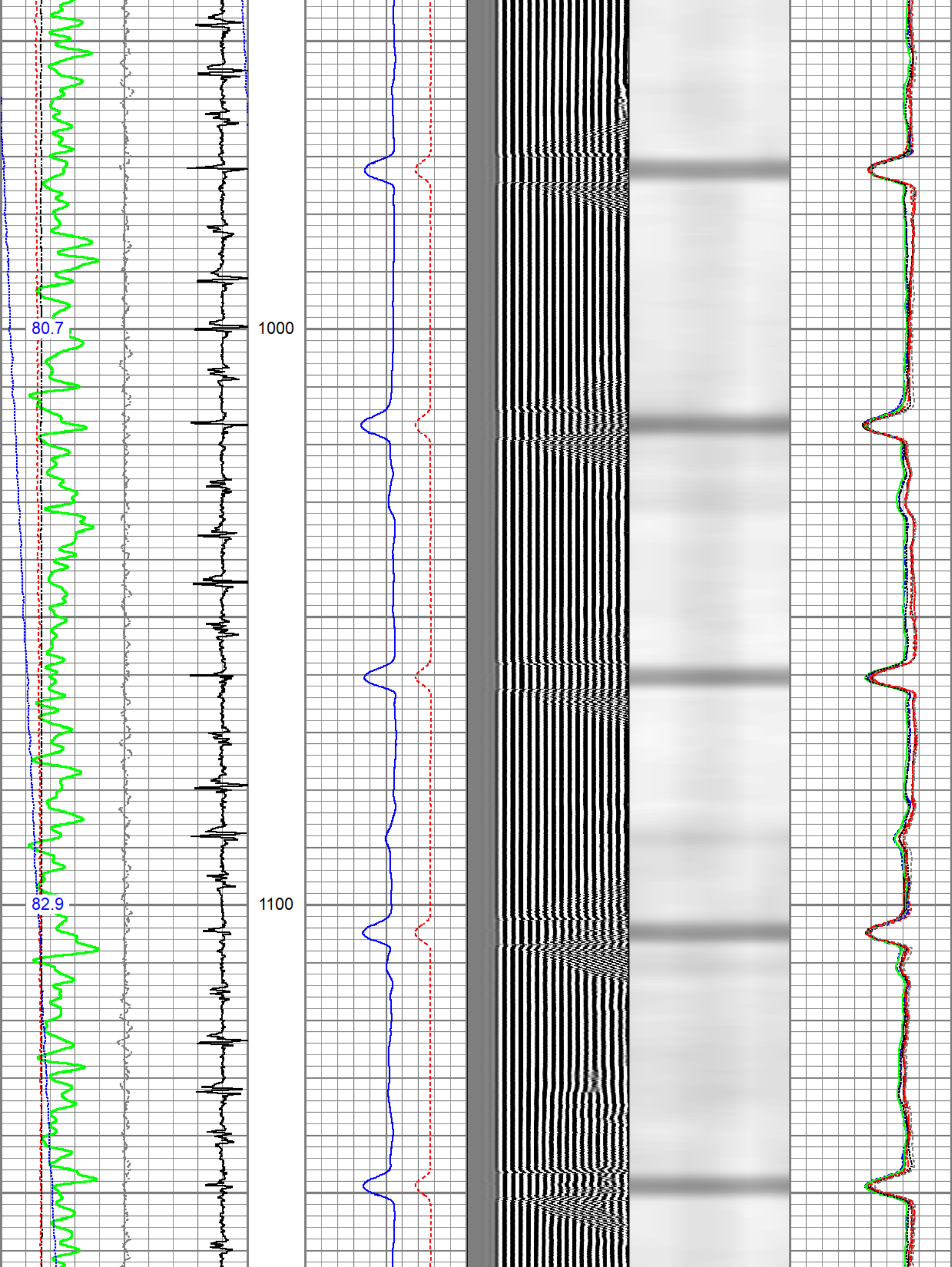


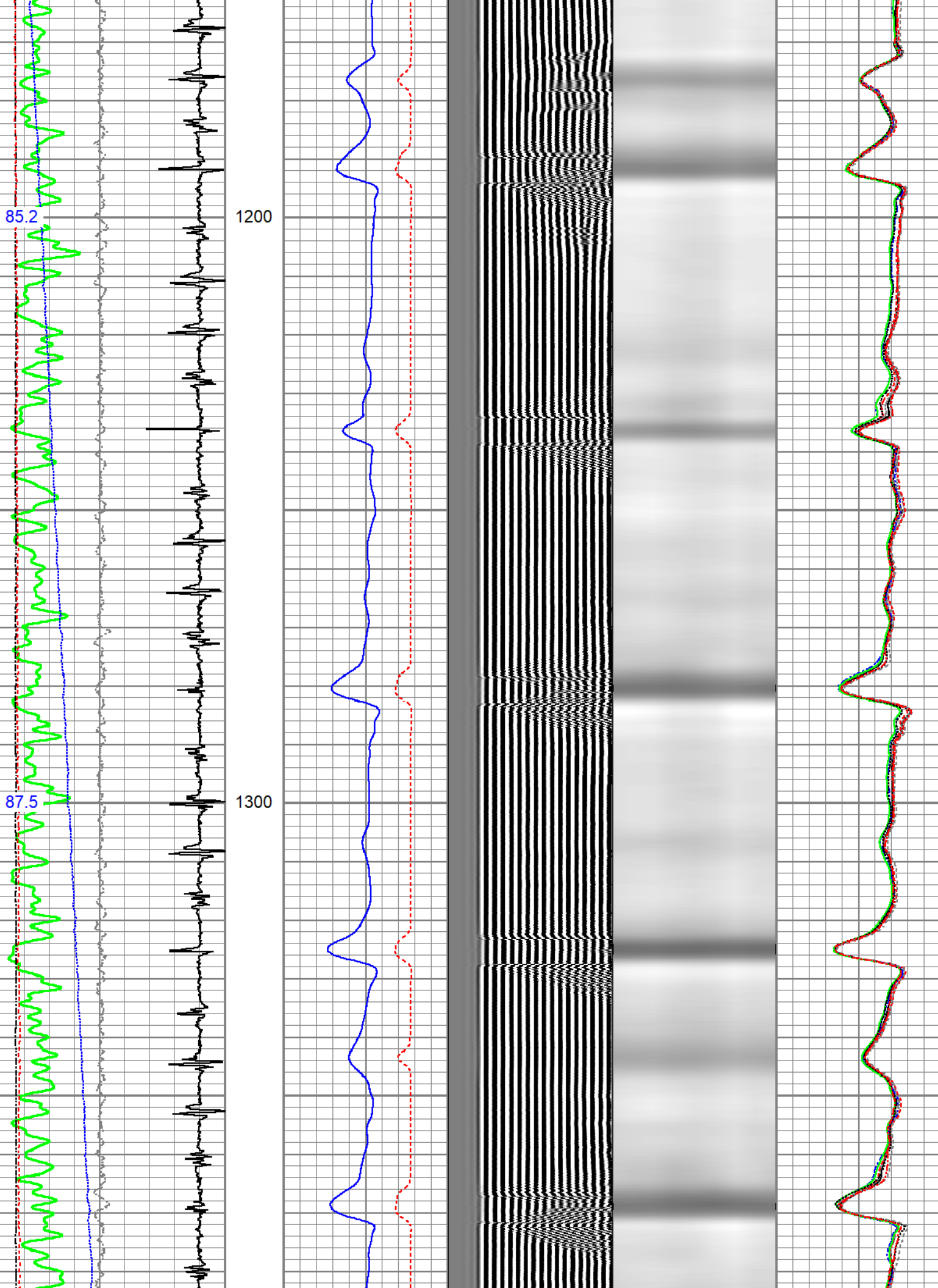




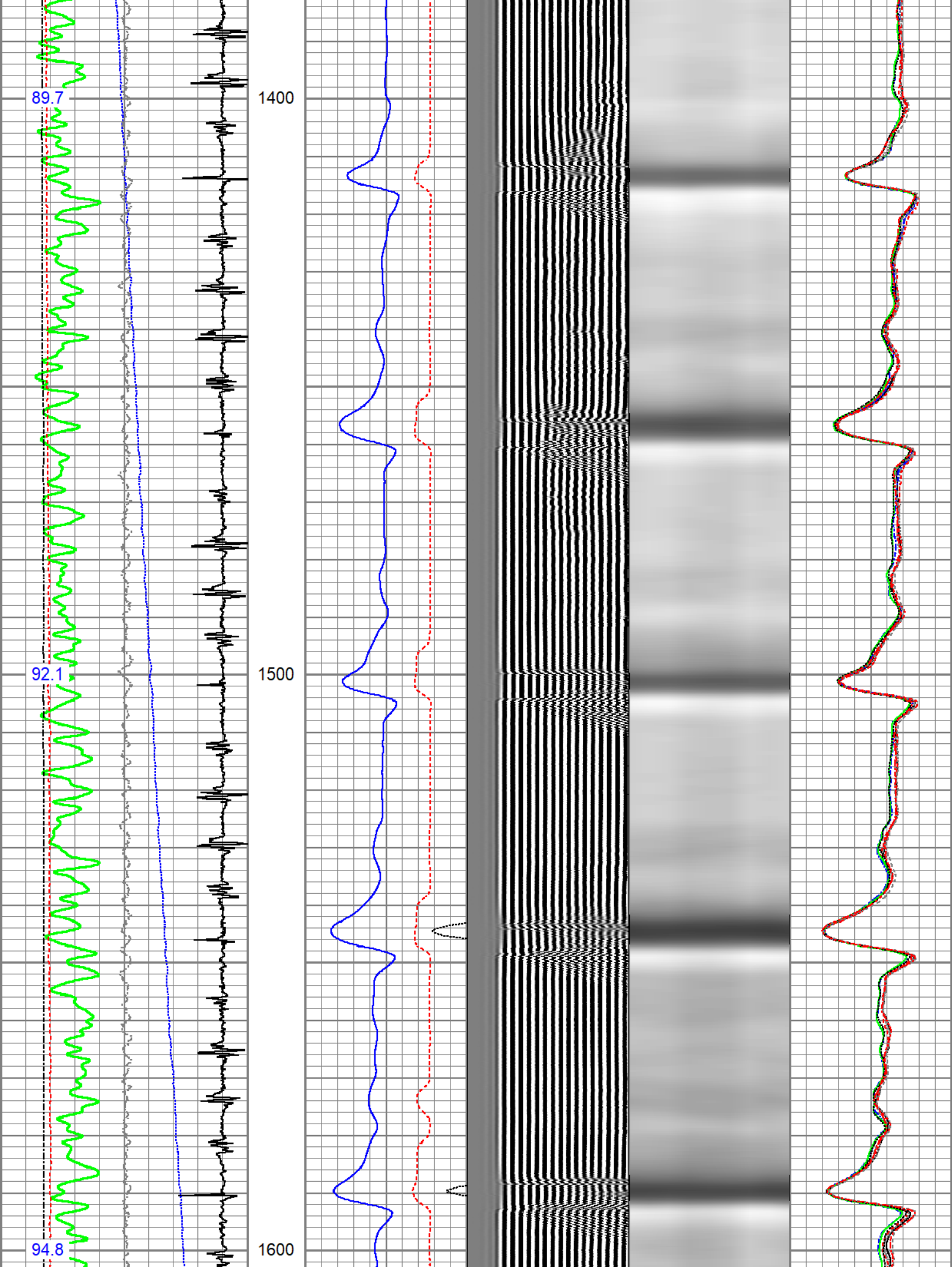


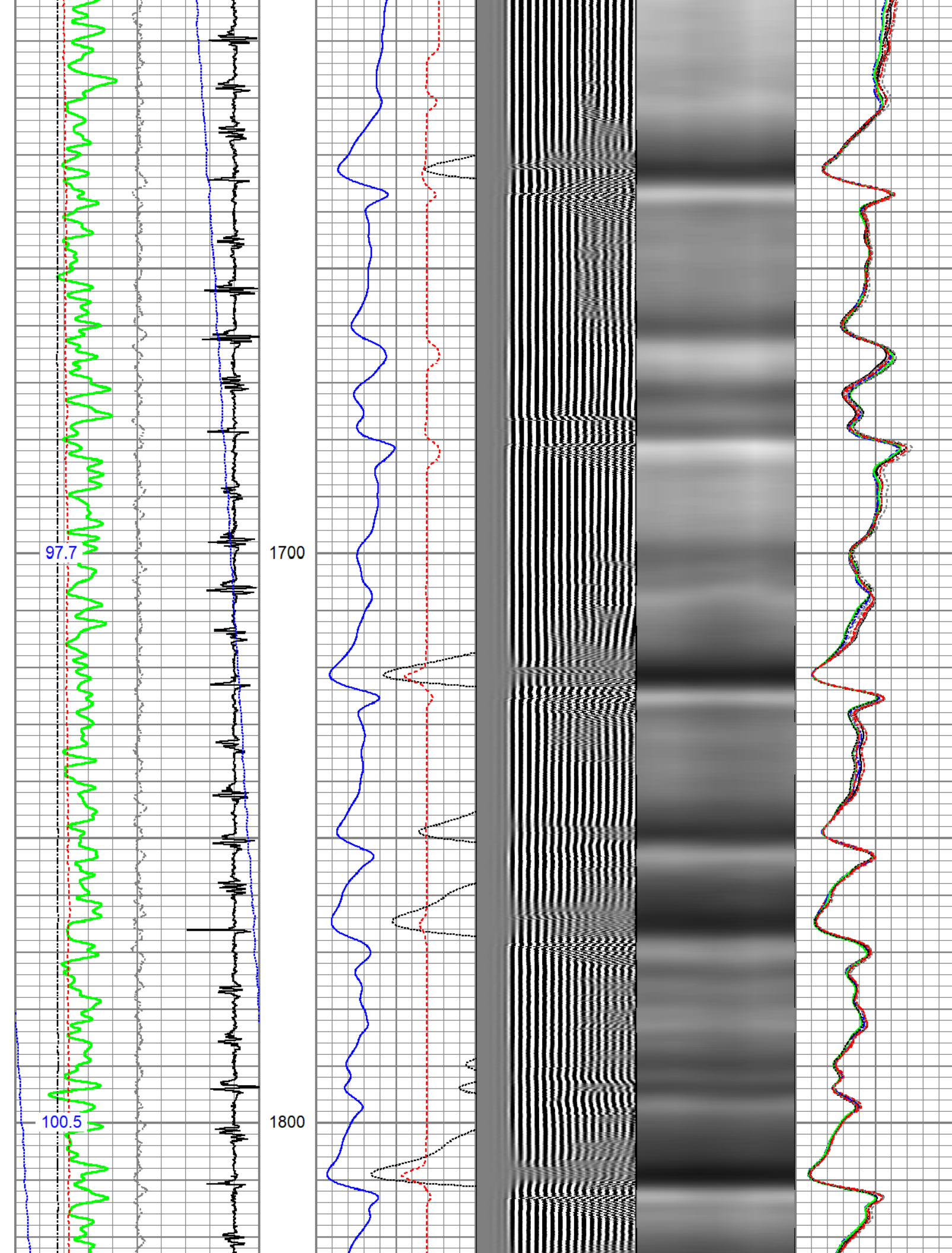


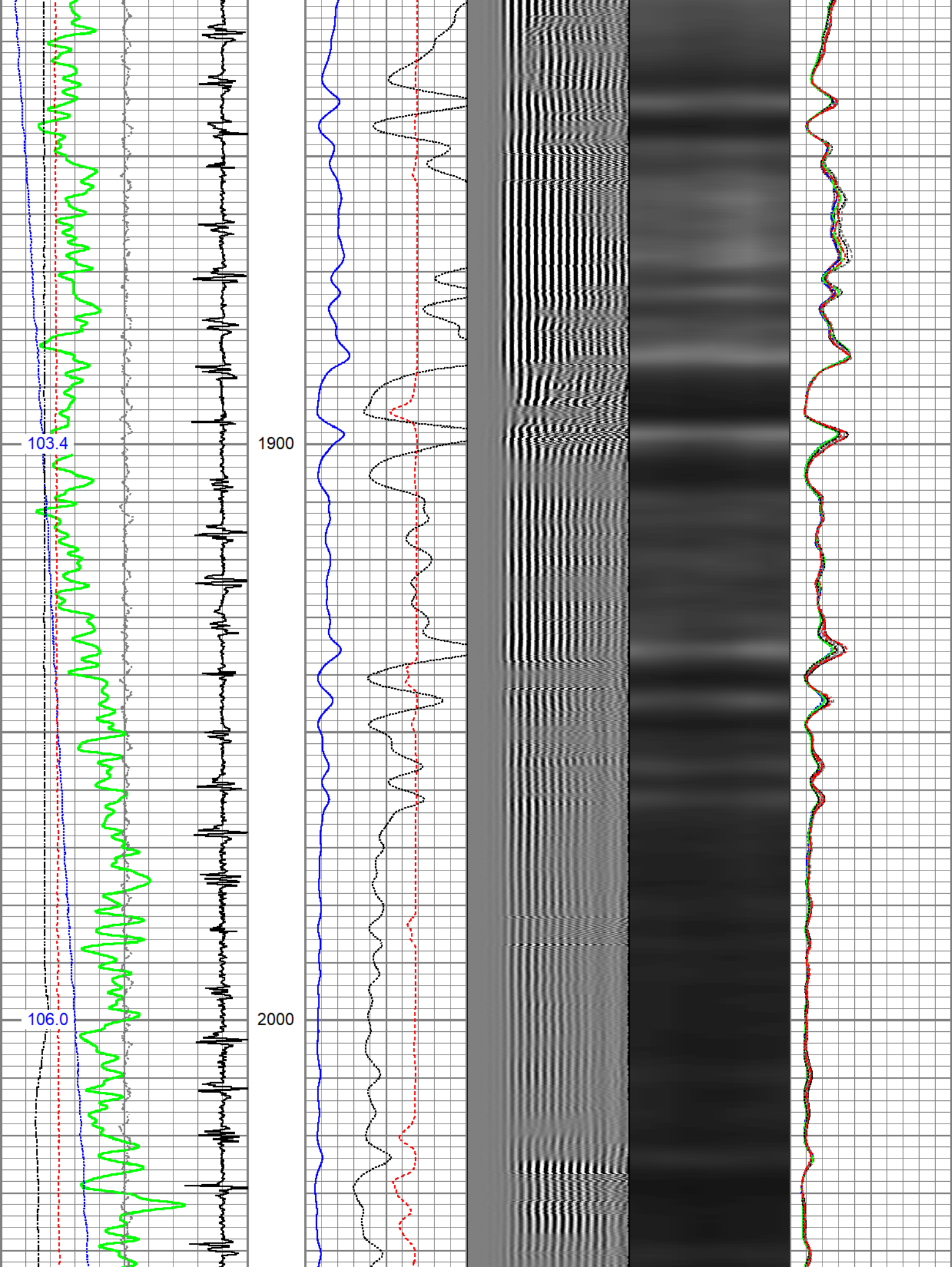




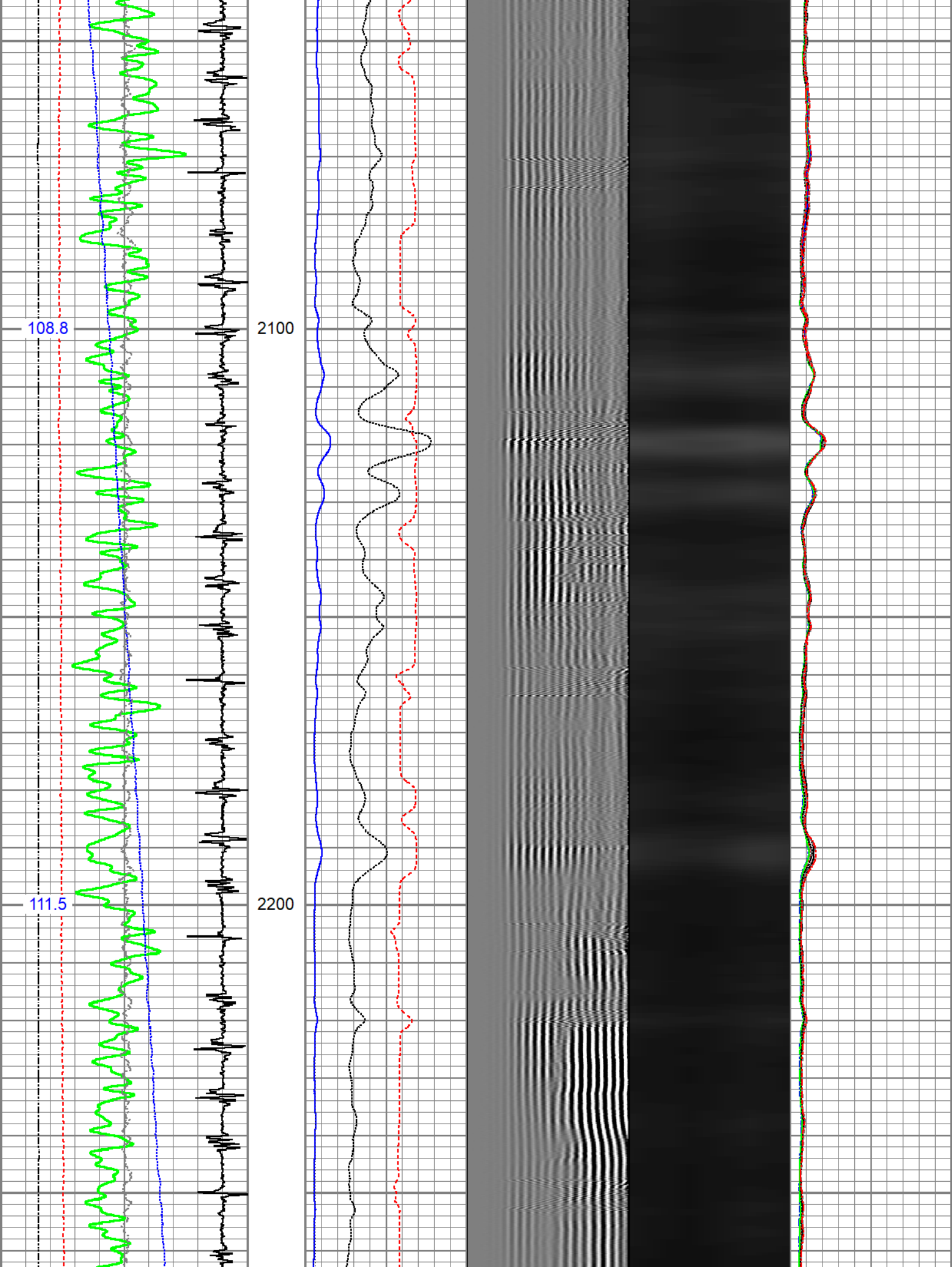


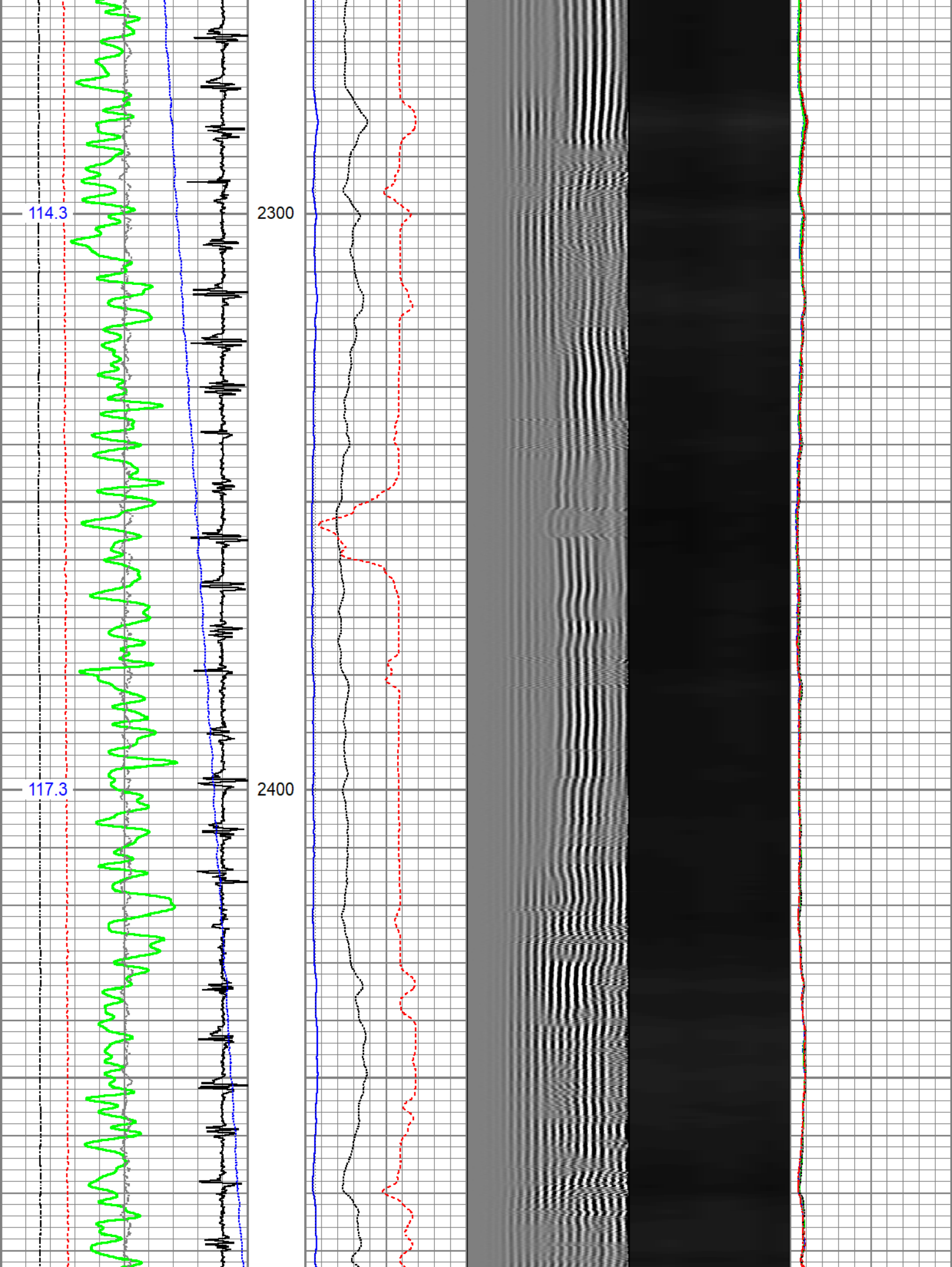


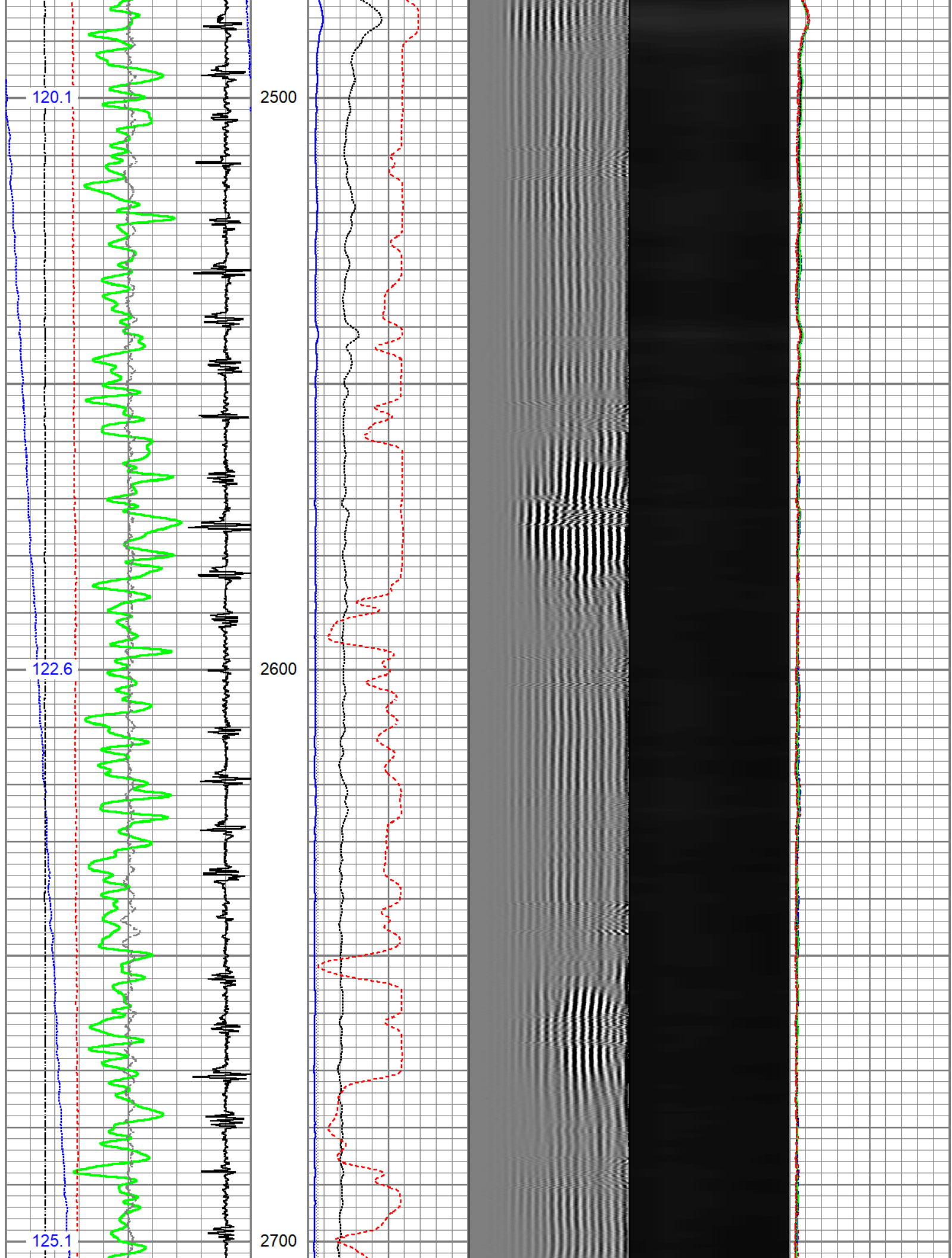




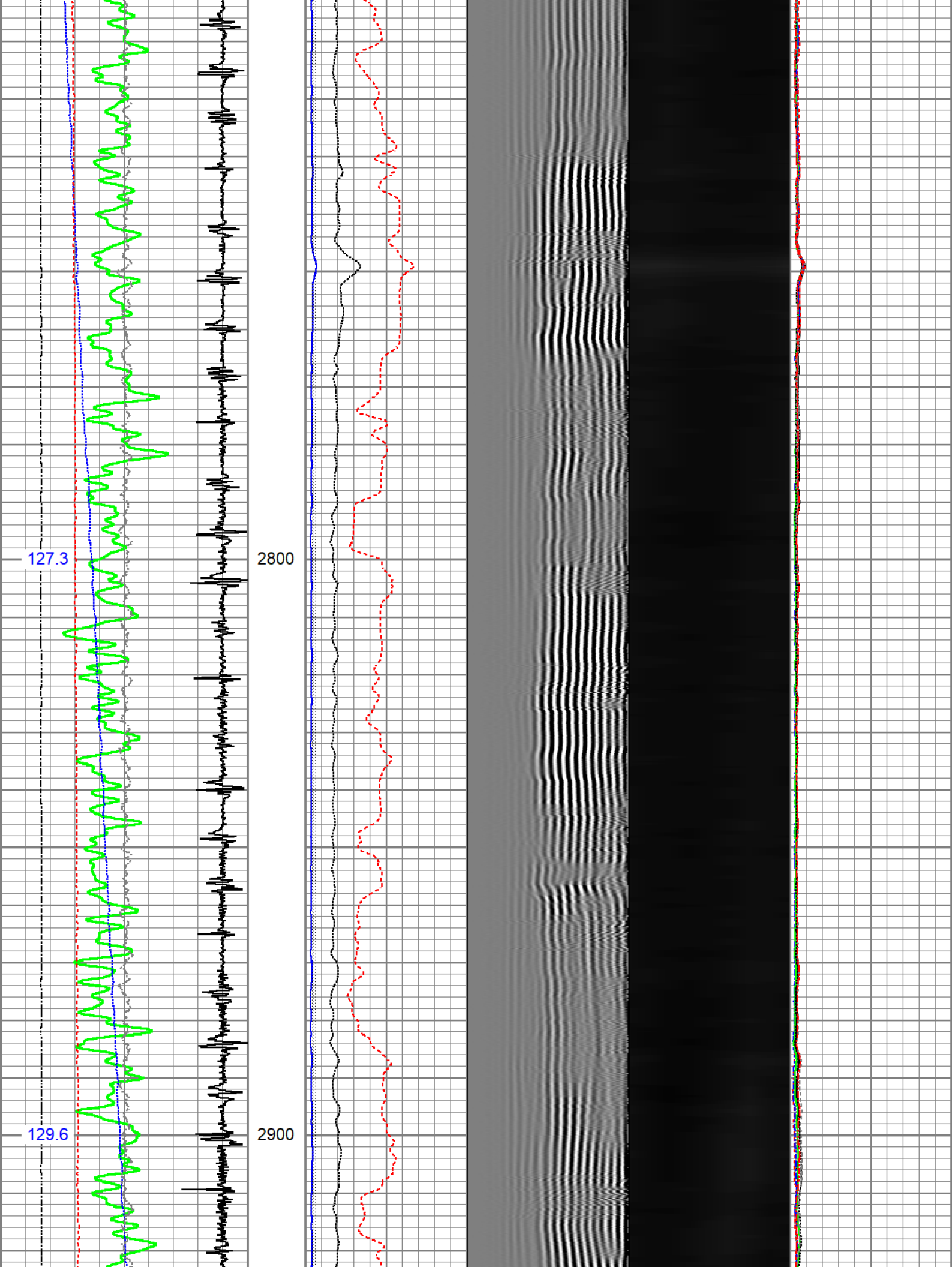


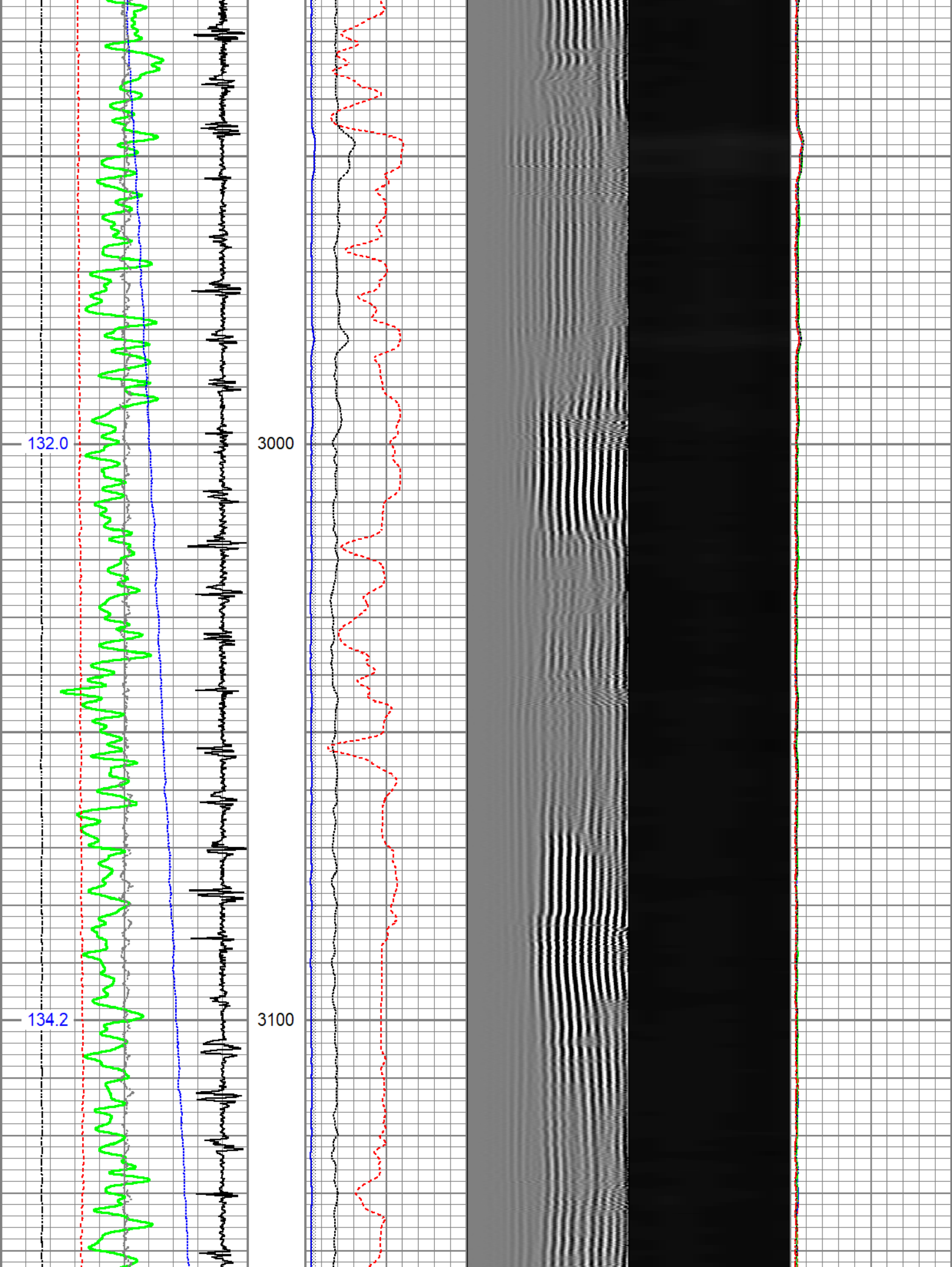


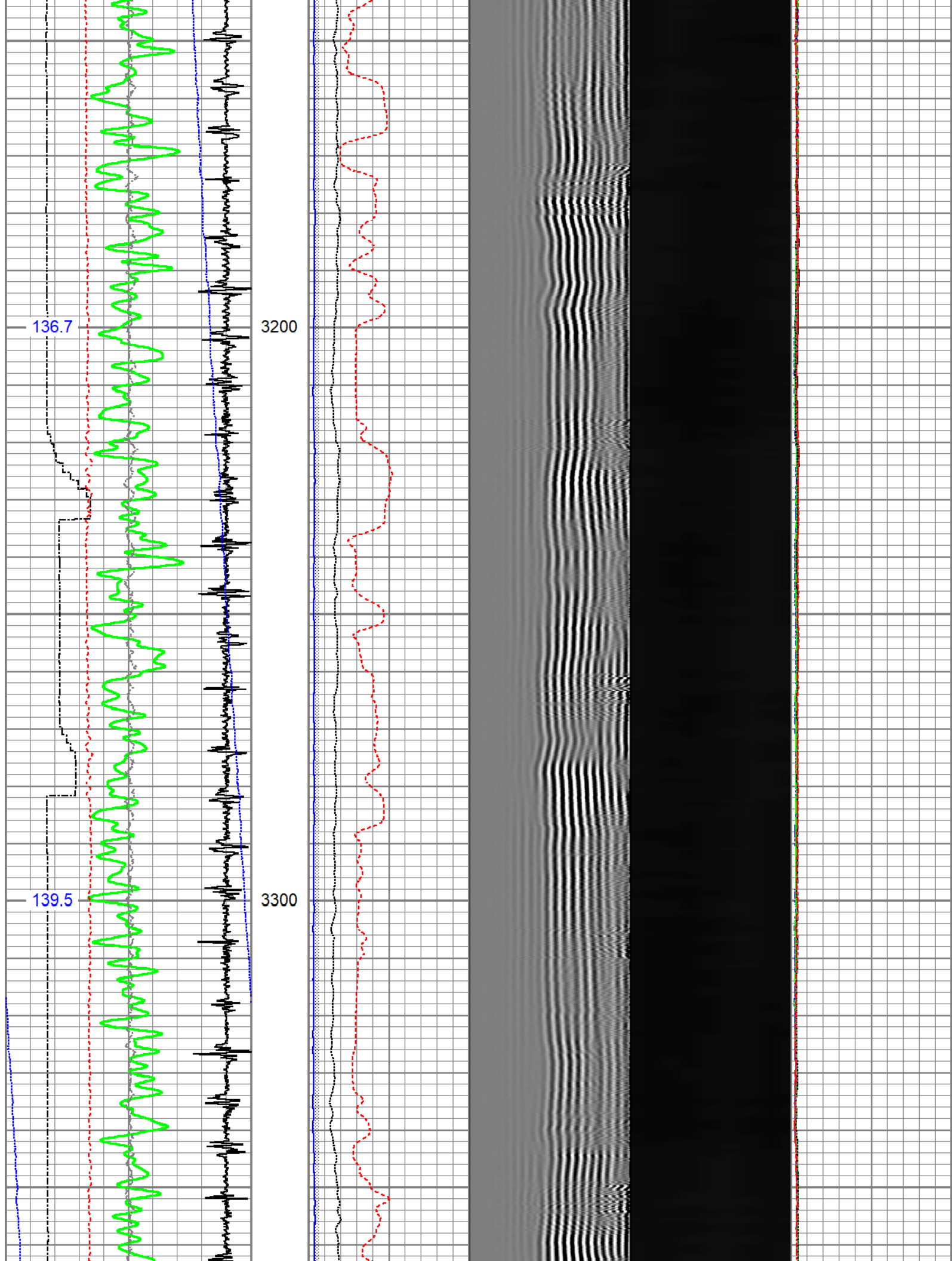


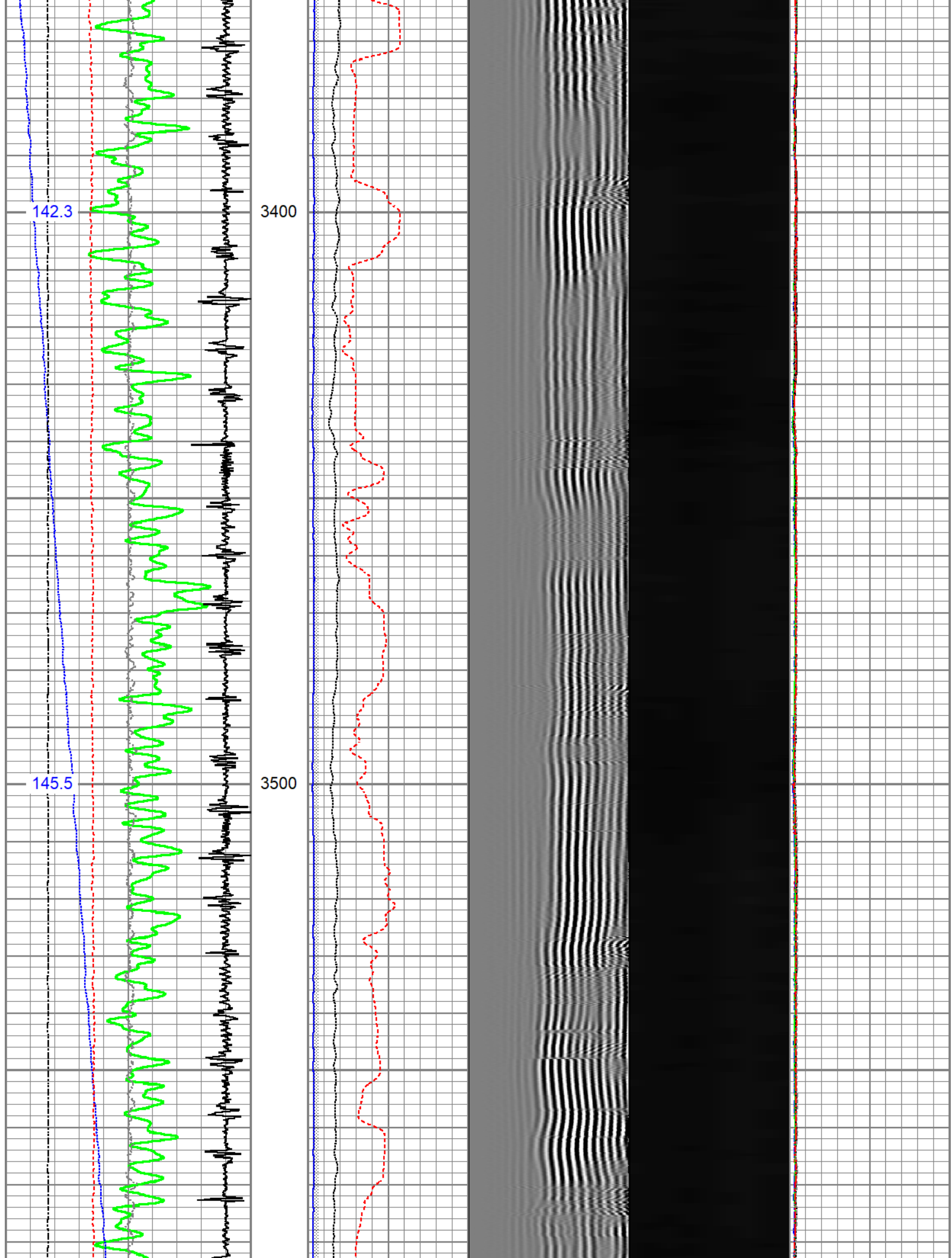




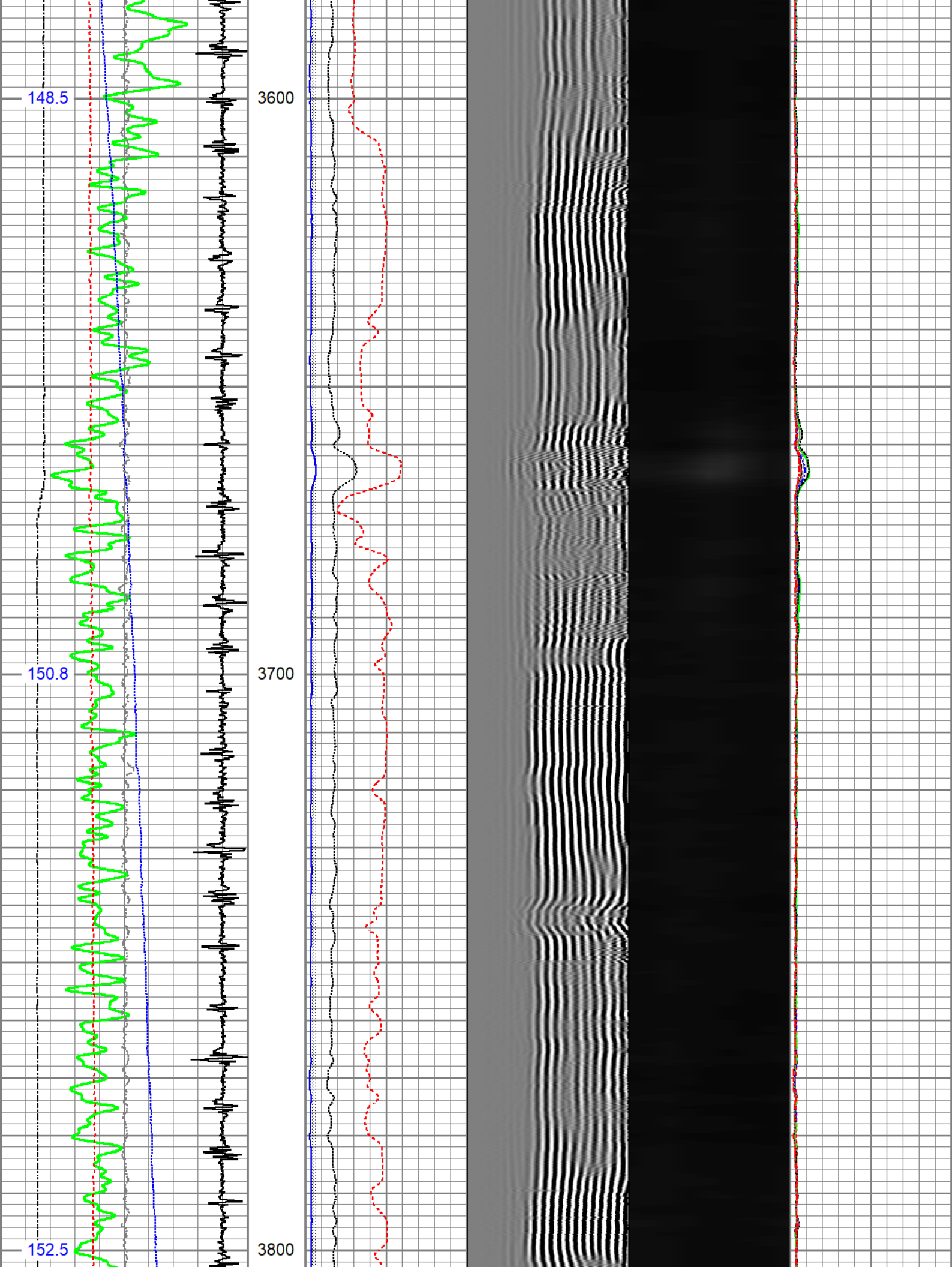


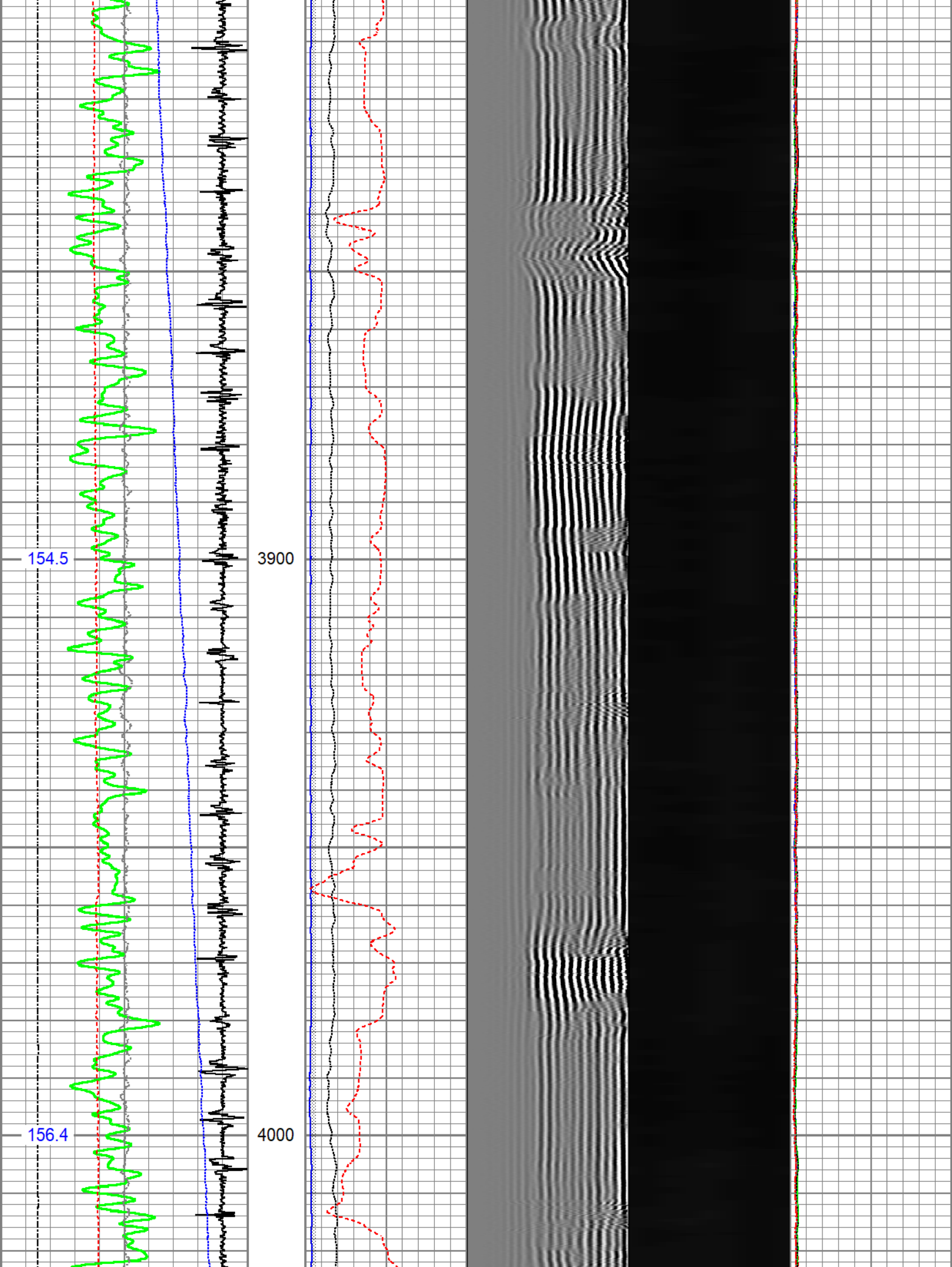




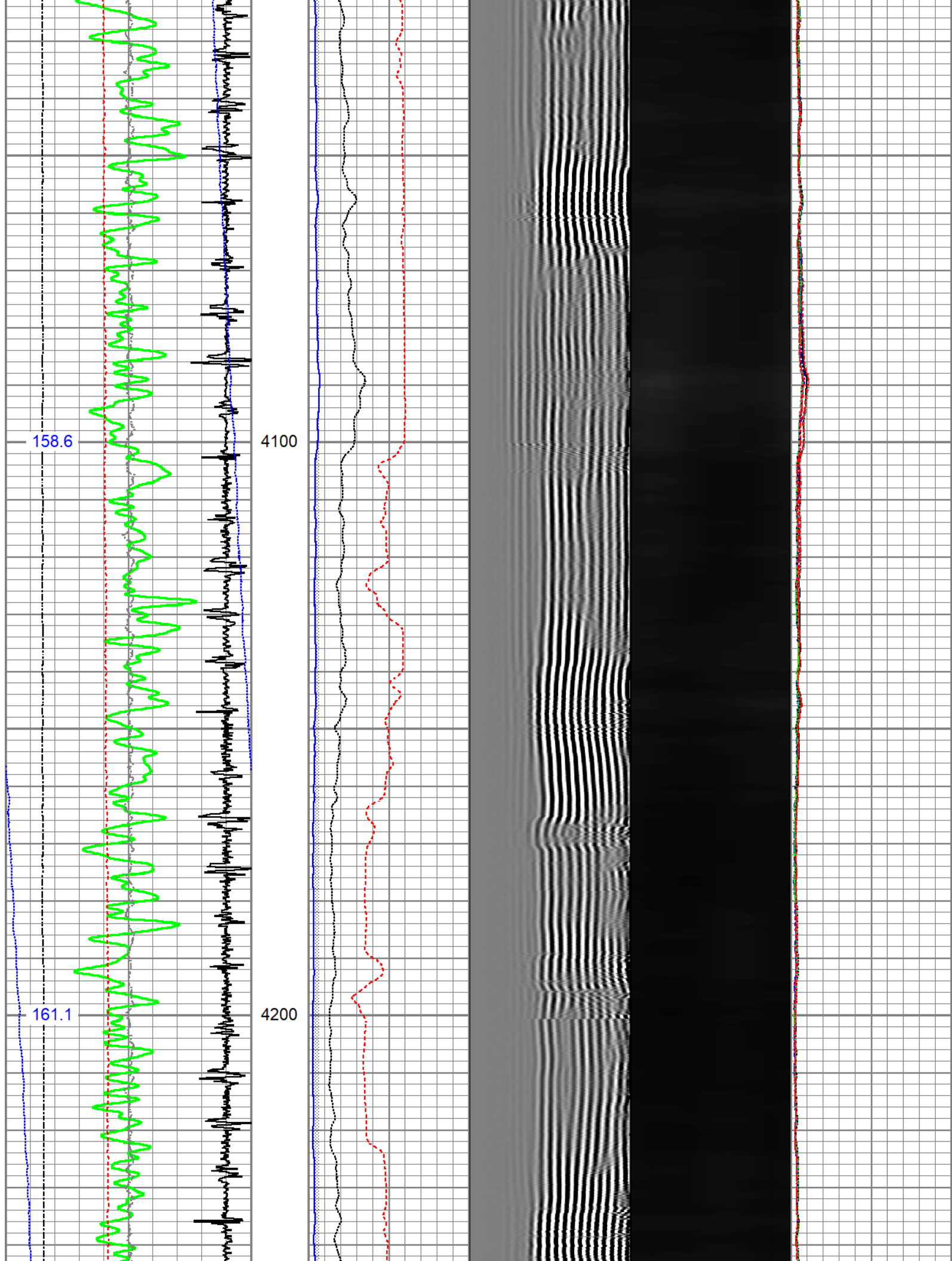


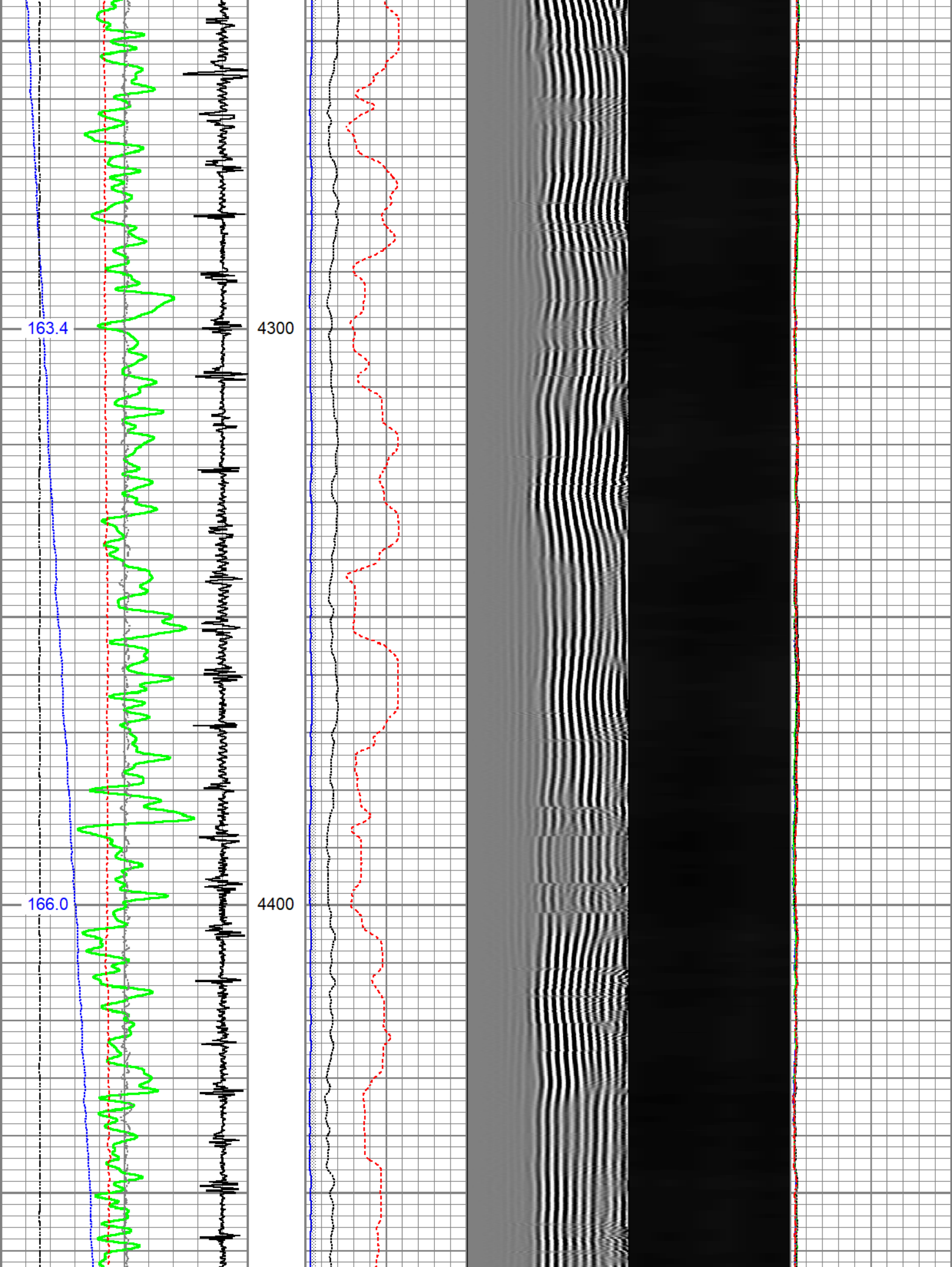


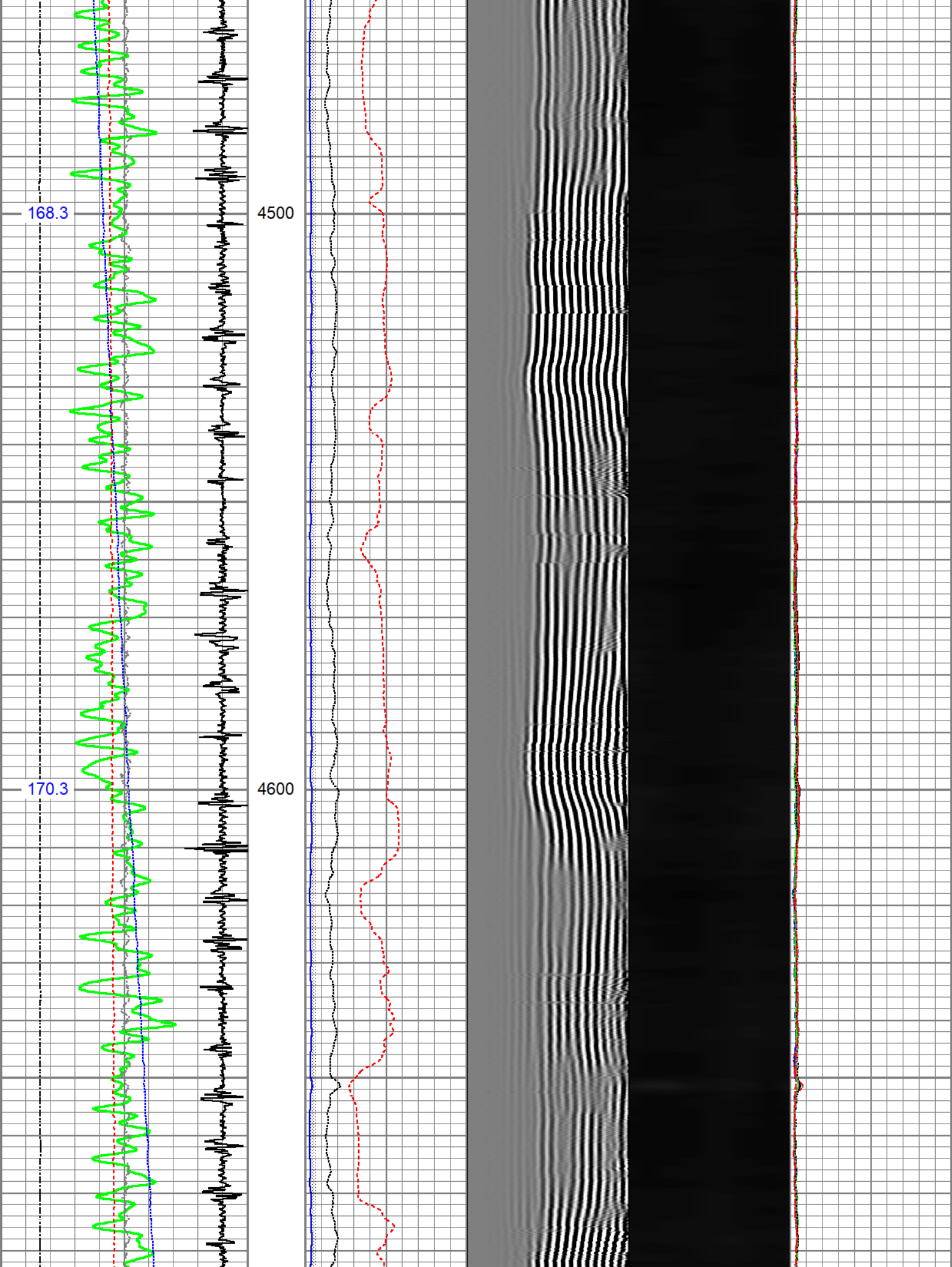


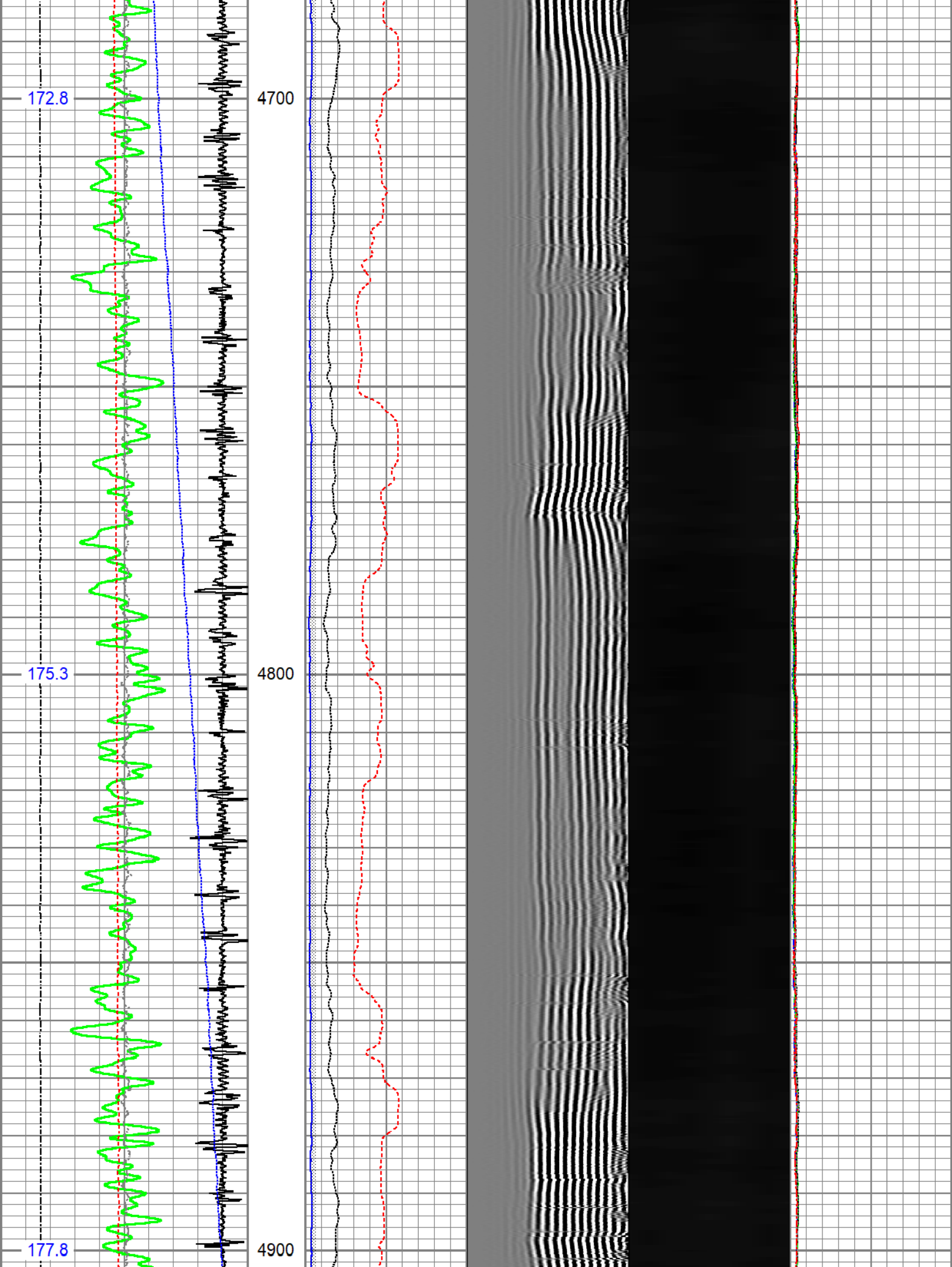




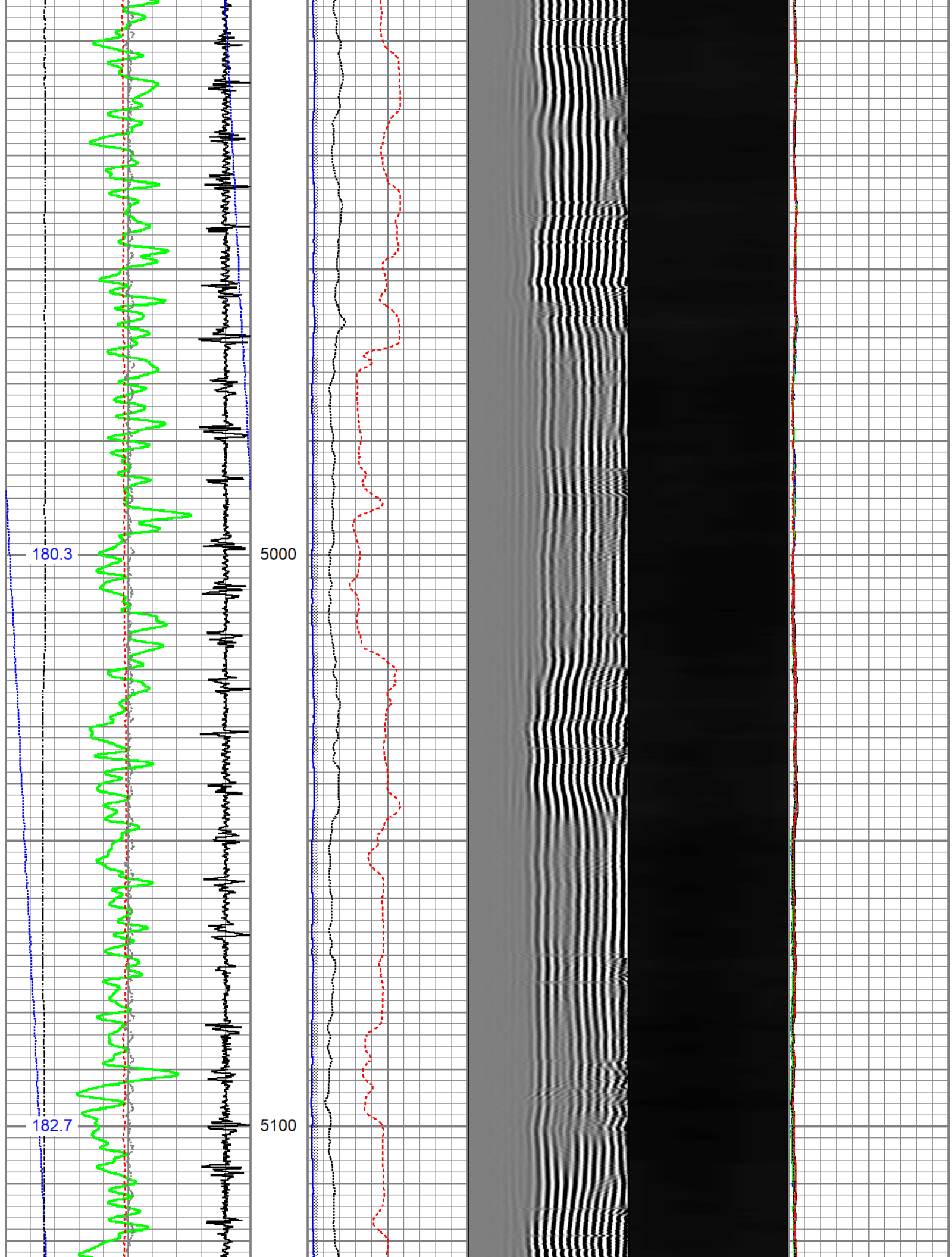


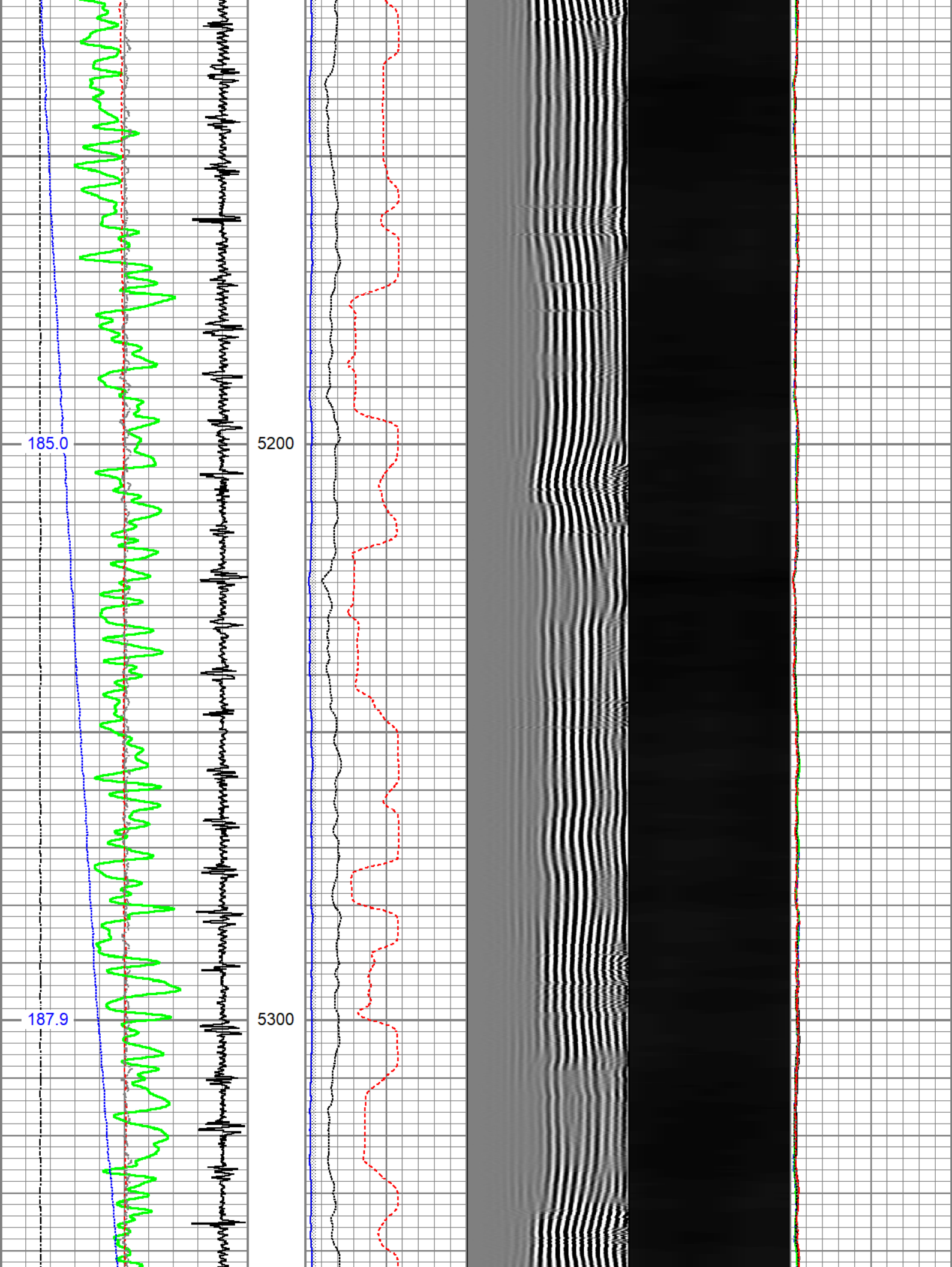




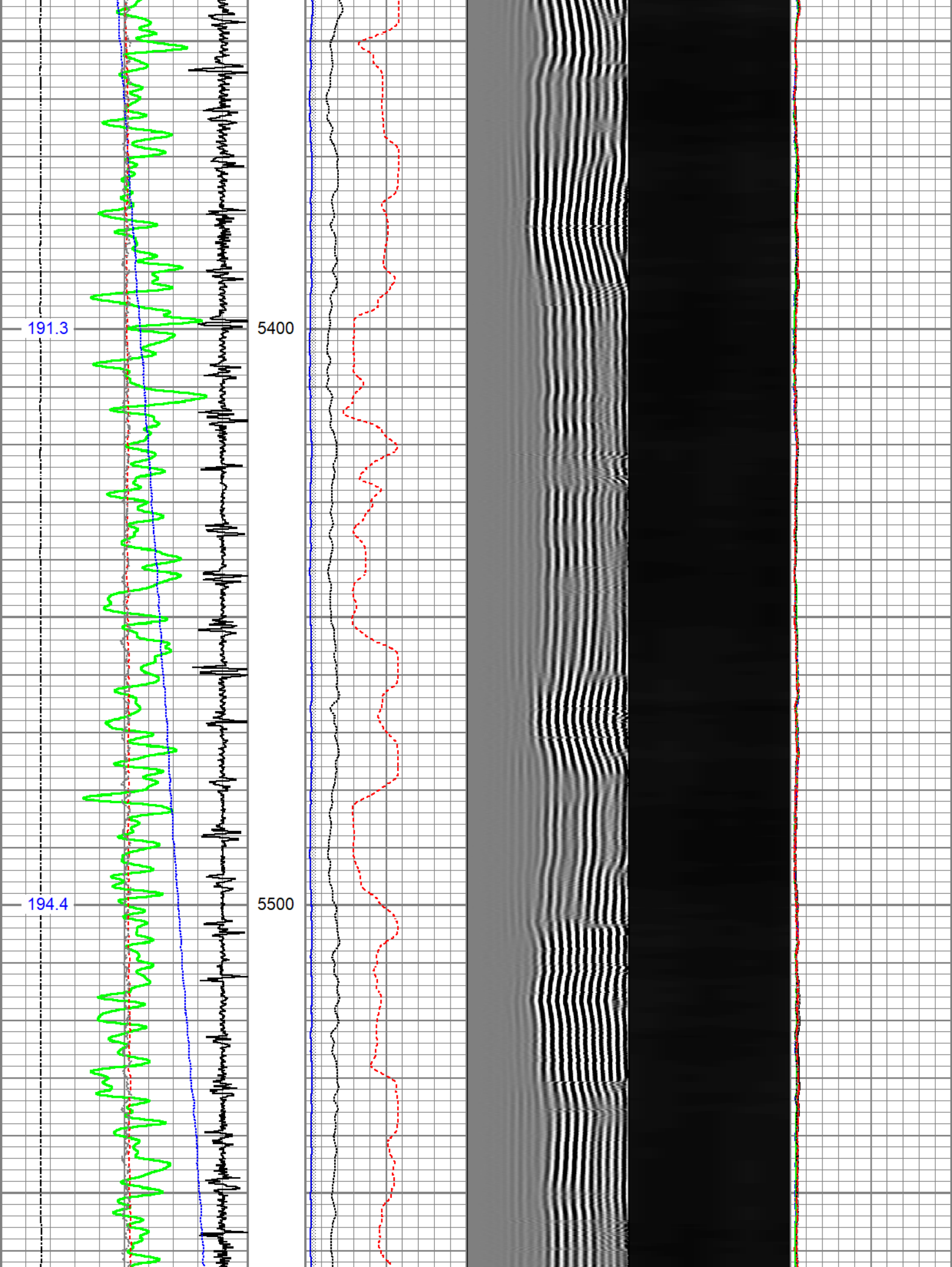


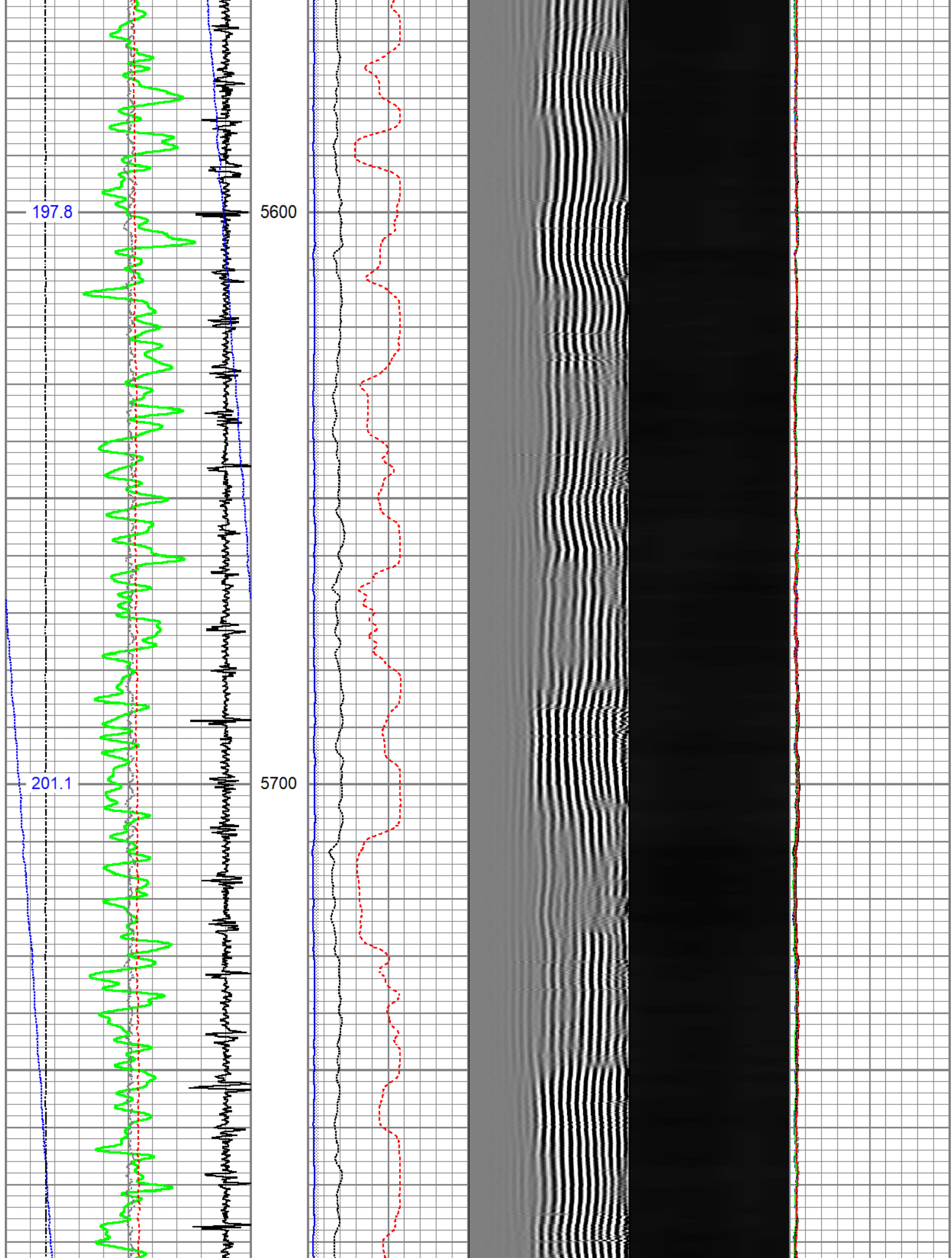


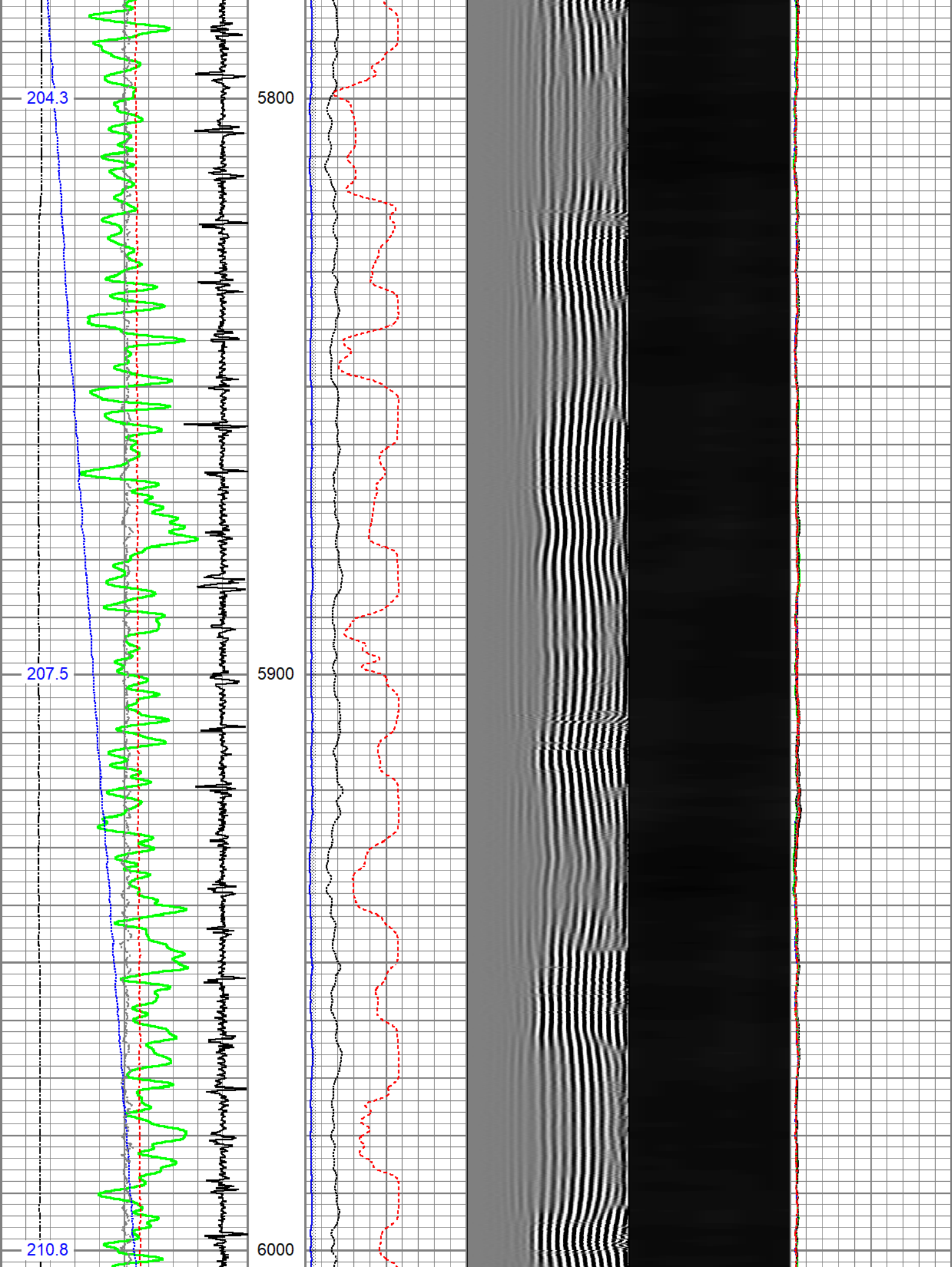


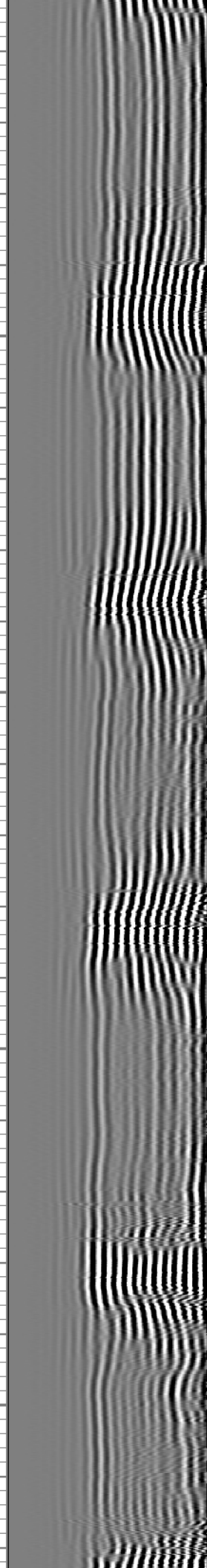
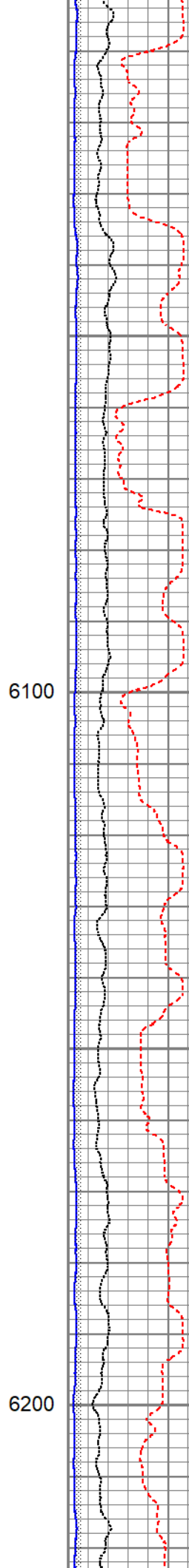
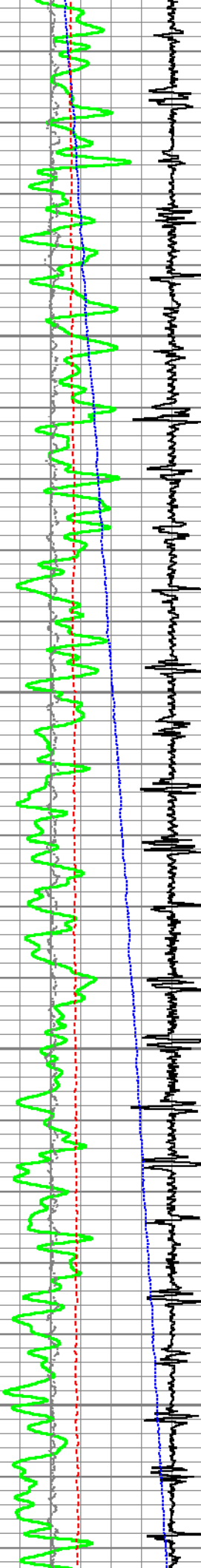




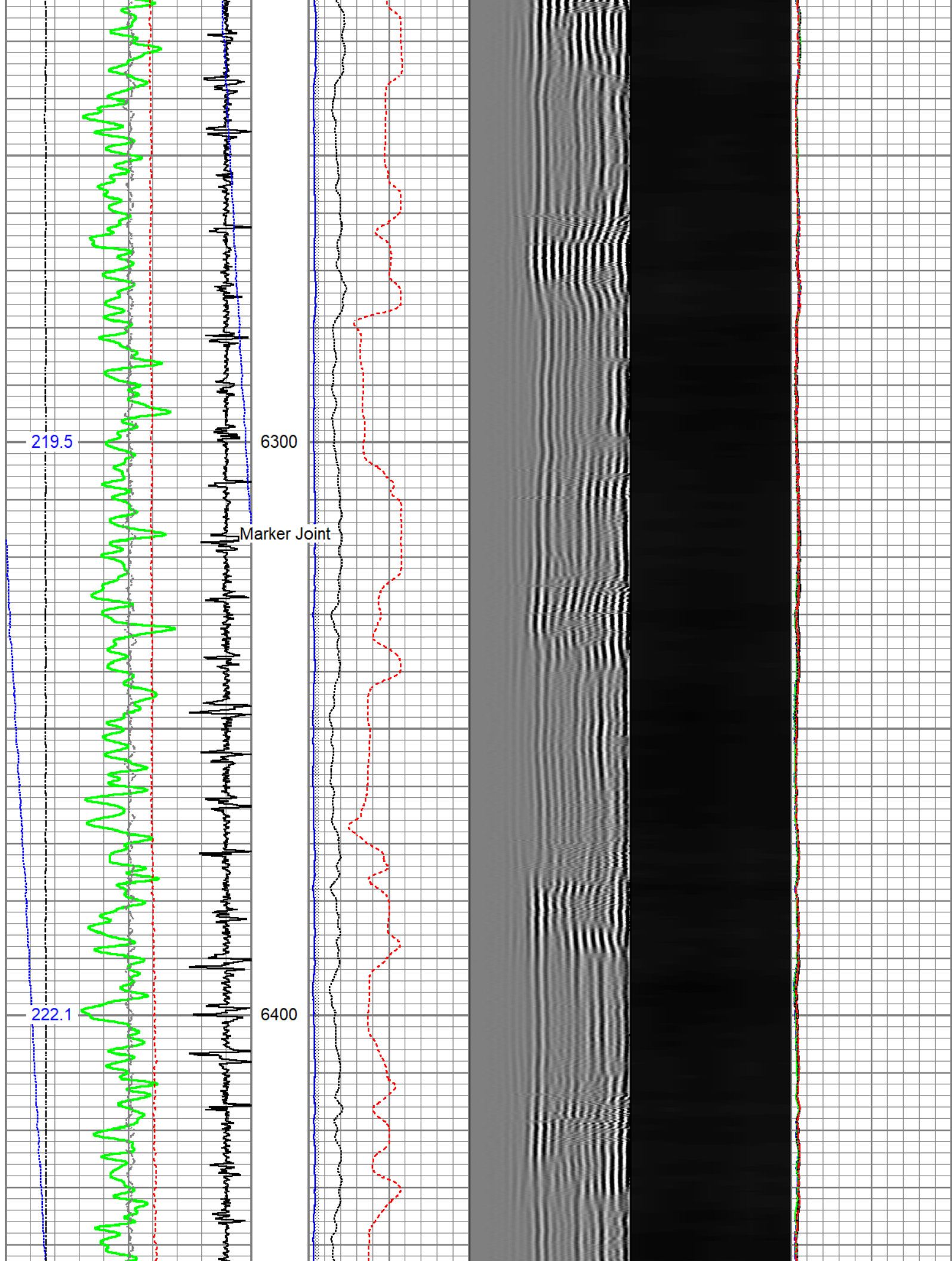


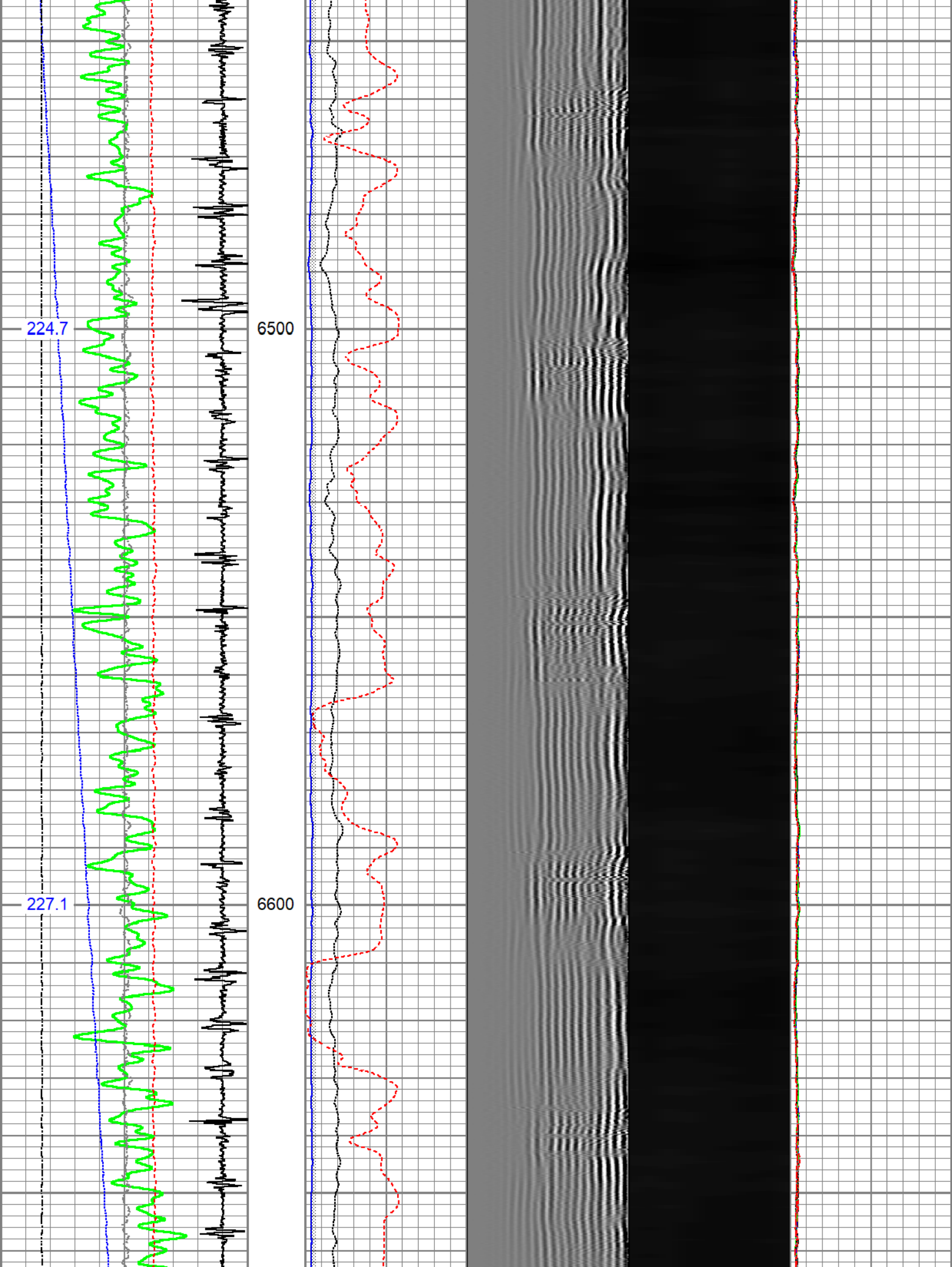


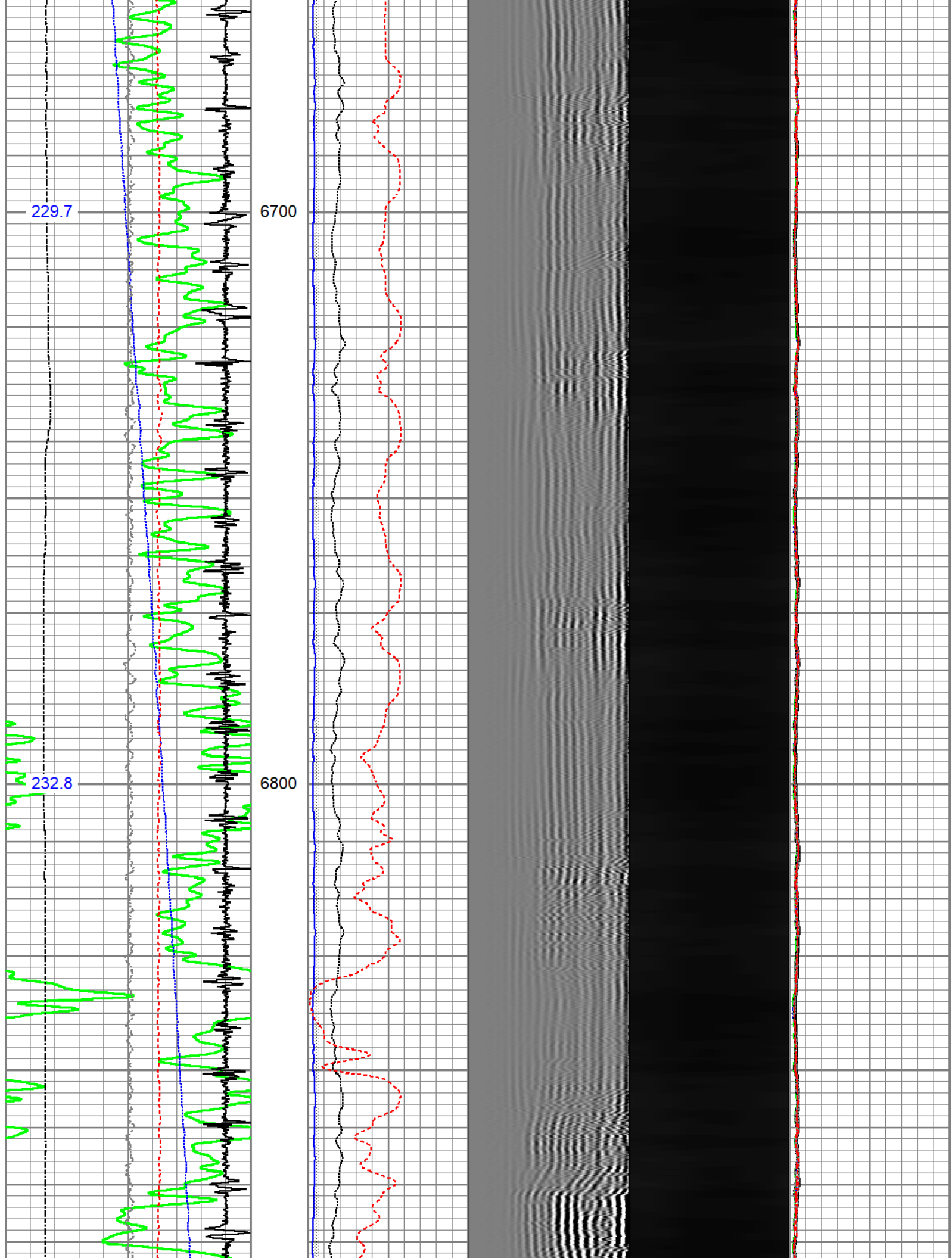


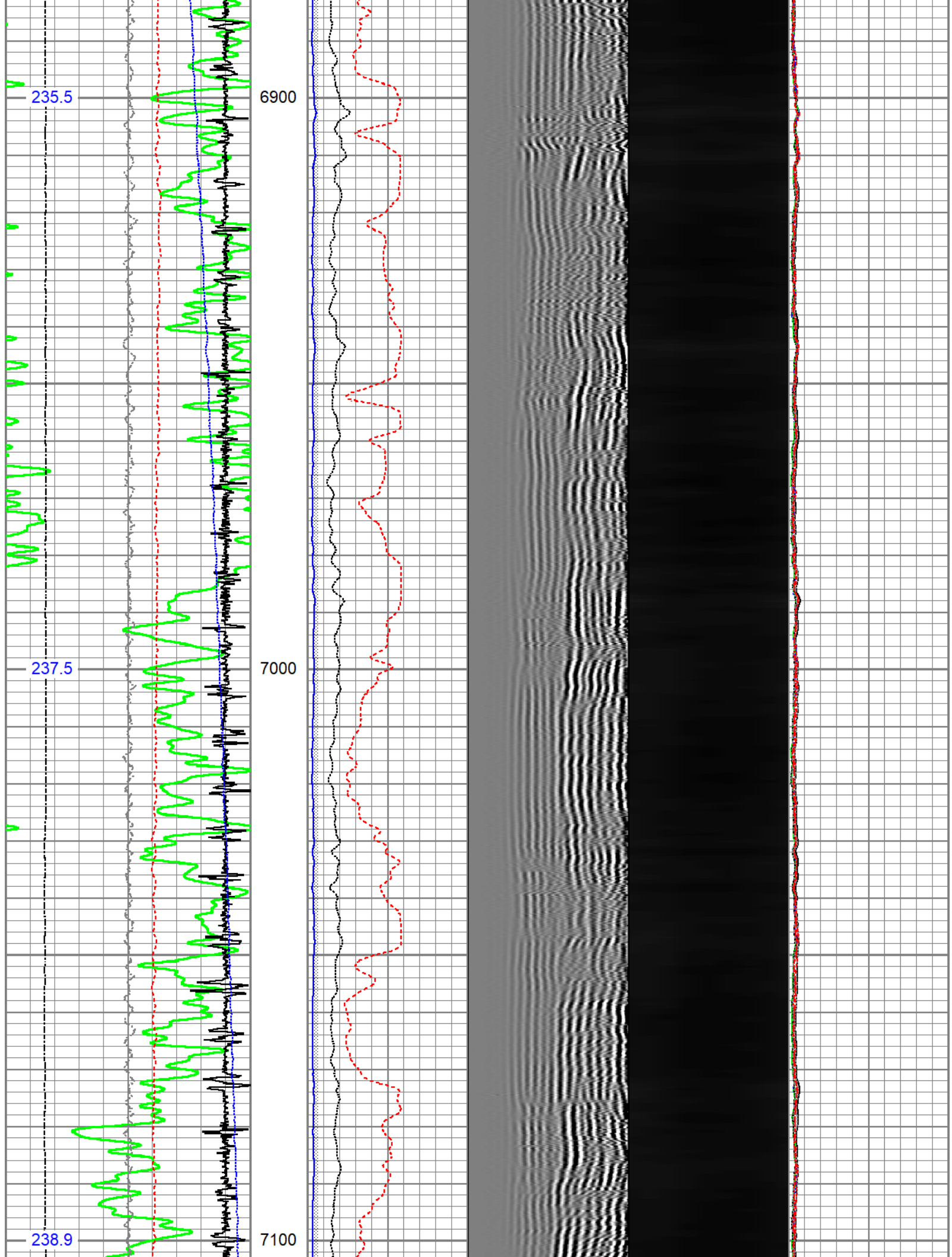




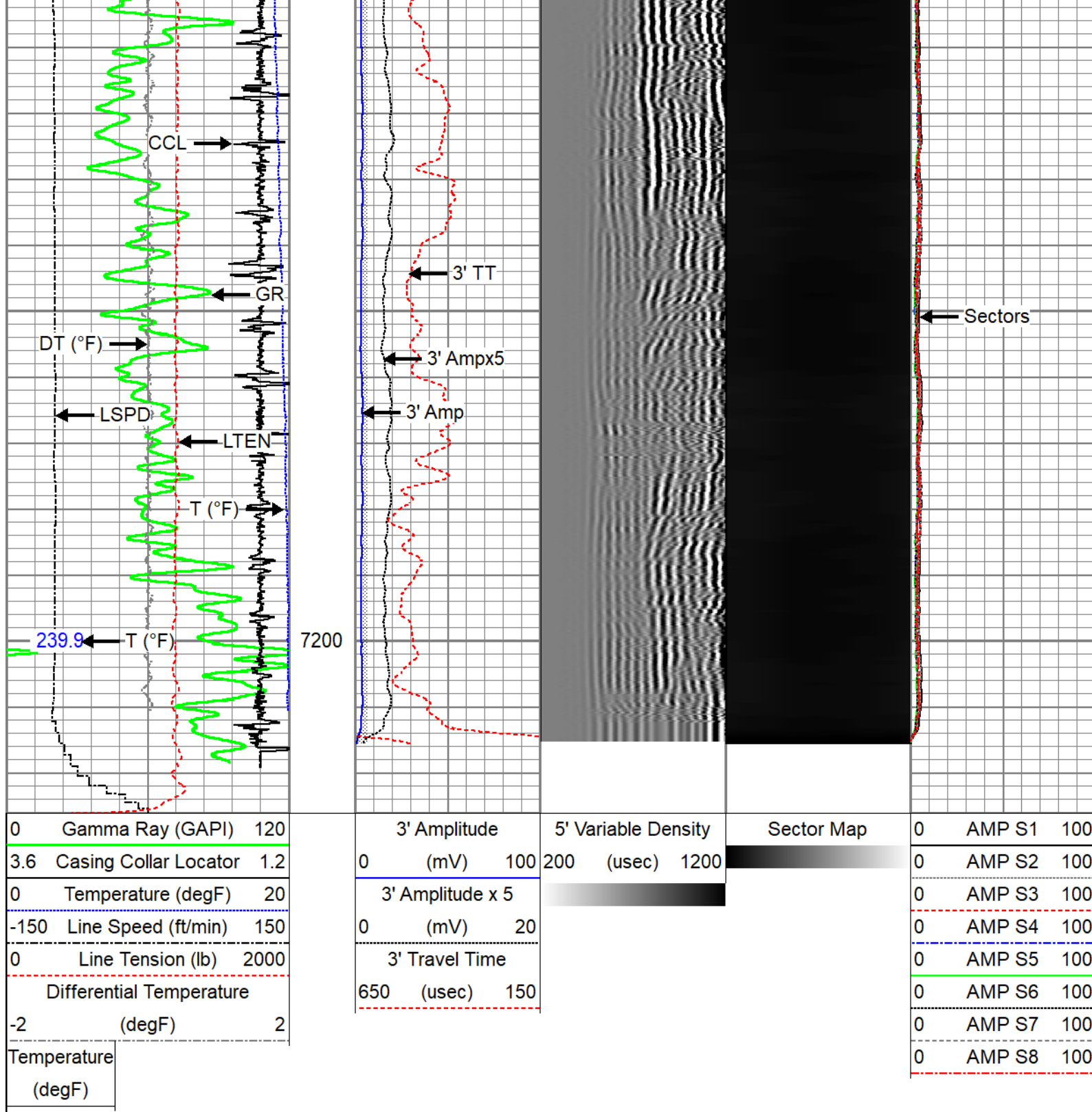












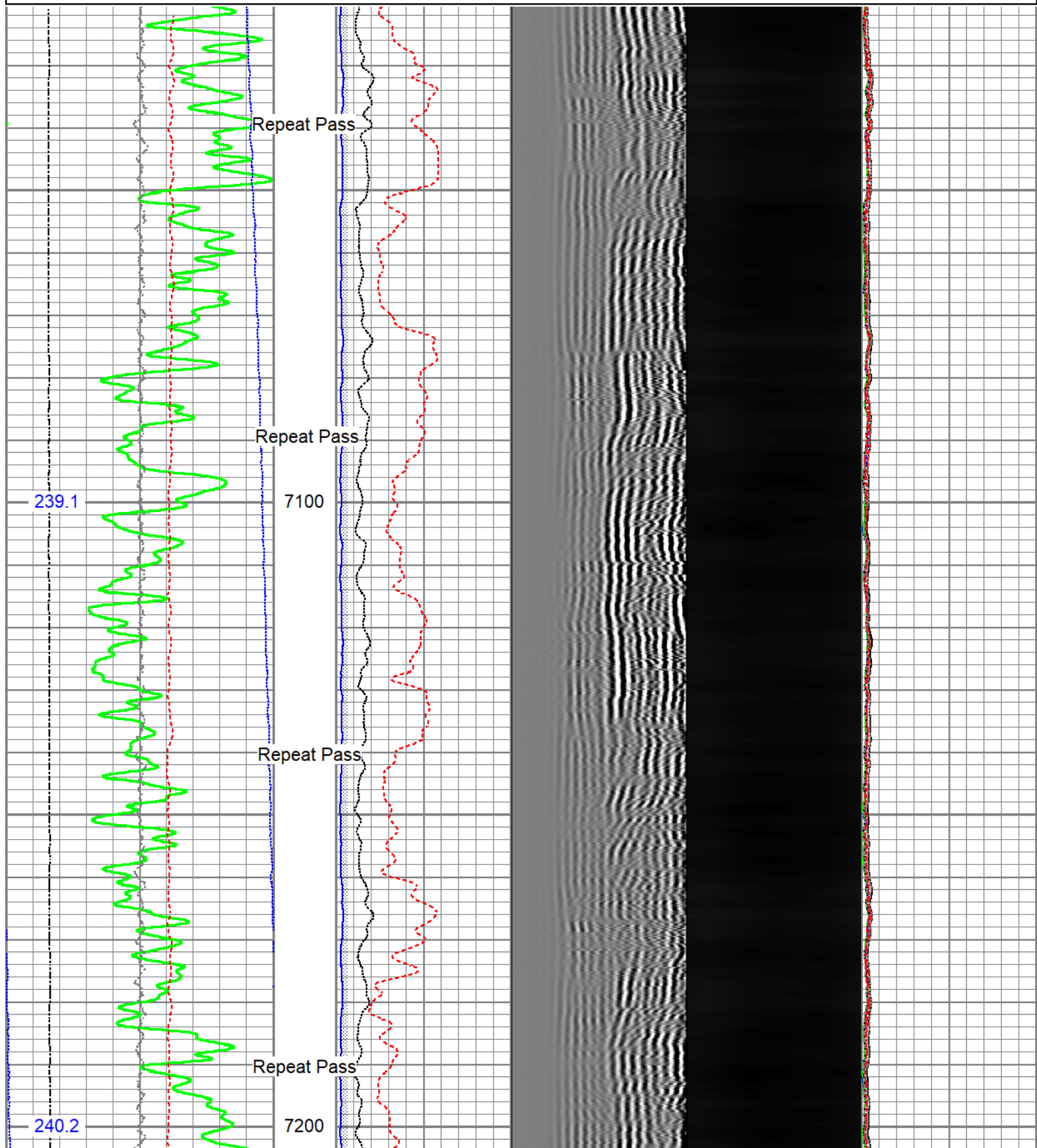
## Repeat Pass

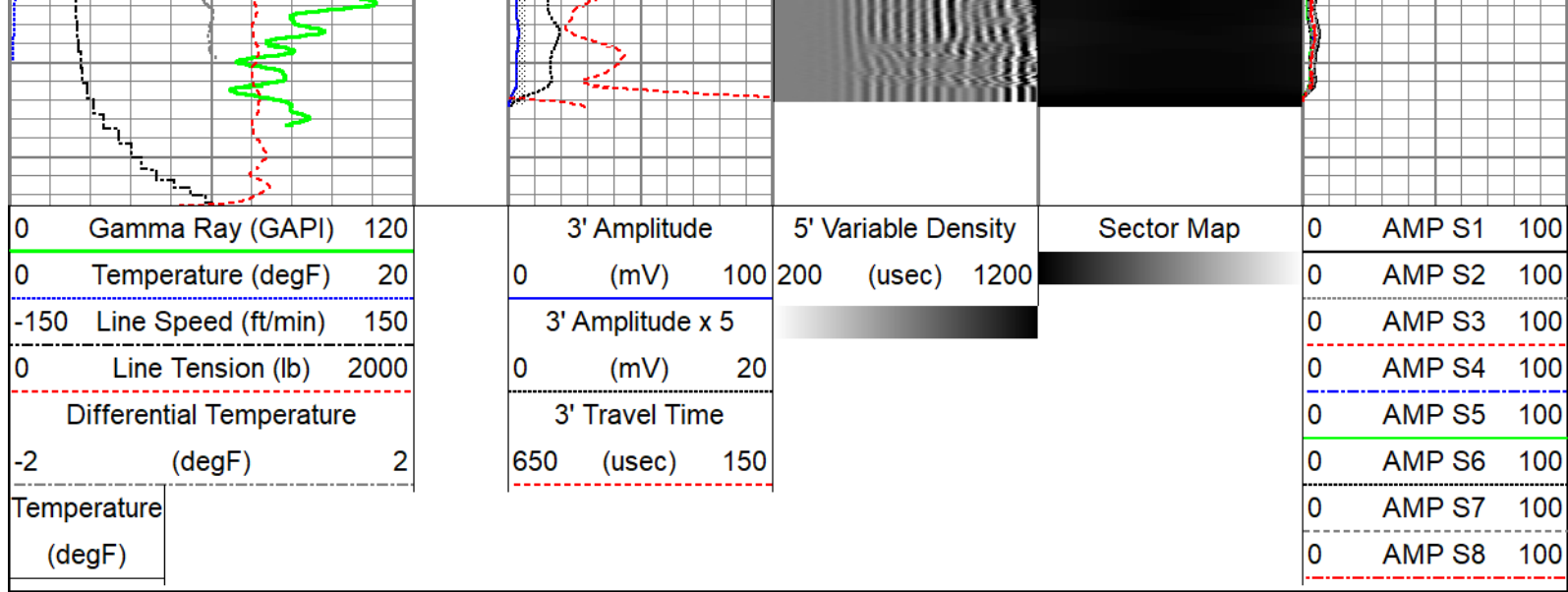
Recorded with 2500 PSI Surface Induced Pressure


Database File chevron\_noble\noble\_rampart a32-751\_rbl\_10-07-21\noble\_rampart a32-751\_rbl\_10-07-21.db  
Dataset Pathname repeat  
Presentation Format edge\_rbl\_noble  
Dataset Creation Thu Oct 07 08:33:02 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
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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	Noble Energy Inc.
	Well	Rampart A32-751
	Field	Wattenberg
	County	Weld
	State	Colorado