



**Radial Cement Bond  
Gamma Ray  
Casing Collar Log**

Company Kerr-McGee Oil & Gas Onshore, L.P.  
Well Dolores 7-32A  
Field Wattenberg  
County Weld State Colorado

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State Colorado

Location: API #: 05-123-20802  
SEC 32 TWP 3N RGE 66W  
Permanent Datum Ground Level Elevation 4888  
Log Measured From Kelly Bushing  
Drilling Measured From Kelly Bushing 12'FT  
Other Services  
JB/GR  
CIBP  
Dump Bailler  
Elevation  
K.B. 4900'  
D.F. ---  
G.L. 4888'

Date	2-1-2022	
Run Number	One	
Depth Driller	7970 FT	
Depth Logger	7490 FT	
Bottom Logged Interval	7487 FT	
Top Log Interval	Surface	
Open Hole Size	7.875"	
Type Fluid	Water	
Density / Viscosity	8.34 lb/gal	
Max. Recorded Temp.	249°F	
Estimated Cement Top	See Log	
Time Well Ready	ROA	
Time Logger on Bottom	11:08	
Equipment Number	HD-0324	
Location	Platteville, CO	
Recorded By	G. Jackson	
Witnessed By	Jerod Bishop	
Borehole Record		
Run Number	Bit	From To
Tubing Record		
	Size	Weight From To
Casing Record	Size (in)	Wgt (lbs/Ft) Grade Top Bottom
Surface Casing	8 5/8"	24 J-55 Surface 668FT
Intermediate #1	4 1/2"	11.6 I-80 Surface 7953FT
Intermediate #2		
Liner		

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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 Kelly Bushing at 12 FT  
Ran JB/GR down to 7801 FT  
Set 4.5 CIBP at 7750 & 7490 FT  
Adjusted -2 FT to correlate with Kelly Bushing  
Shop calibrations performed on the RBL Tool on 31-JAN-2022  
Free Pipe Calibrated at 2444 FT  
GOBO indicates 80% Bond Index for 4.5-inch casing (16.24 mV)  
Log ran with 500 PSI surface induced pressure  
Logging tools were clean and free of debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

**Calibration Report**

Database File 05-123-20802\_oxy\_rcbl\_1-31-22.db  
Dataset Pathname pass2.1  
Dataset Creation Tue Feb 01 12:45:01 2022

### Gamma Ray Calibration Report

Serial Number: FW1810-044  
 Tool Model: 2750 6PB  
 Performed: Mon Oct 19 14:19:51 2020  
  
 Calibrator Value: 637.0                      GAPI  
  
 Background Reading: 105.3                      cps  
 Calibrator Reading: 1221.0                      cps  
  
 Sensitivity: 0.5709                              GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: 120855  
 Tool Model: 2750 RBT  
  
 Calibration Casing Diameter: 4.500                      in  
 Calibration Depth: 3579.139                      ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.566	0.800	81.196	142.771	0.444
CAL	0.707	0.710				
5'	0.007	0.599	0.800	81.196	135.721	-0.127
SUM						
S1	0.003	0.579	0.000	100.000	173.793	-0.541
S2	0.005	0.567	0.000	100.000	178.038	-0.885
S3	0.005	0.567	0.000	100.000	177.882	-0.802
S4	0.003	0.571	0.000	100.000	176.242	-0.566
S5	0.003	0.570	0.000	100.000	176.292	-0.547
S6	0.004	0.598	0.000	100.000	168.325	-0.665
S7	0.006	0.634	0.000	100.000	159.117	-0.895
S8	0.001	0.624	0.000	100.000	160.471	-0.134

Air Zero Calibration, performed Tue Feb 1 09:32:26 2022:

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

### Temperature Calibration Report

Serial Number: 120855  
 Tool Model: 2750 RBT  
 Performed: Wed Dec 18 13:34:18 2019

	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	

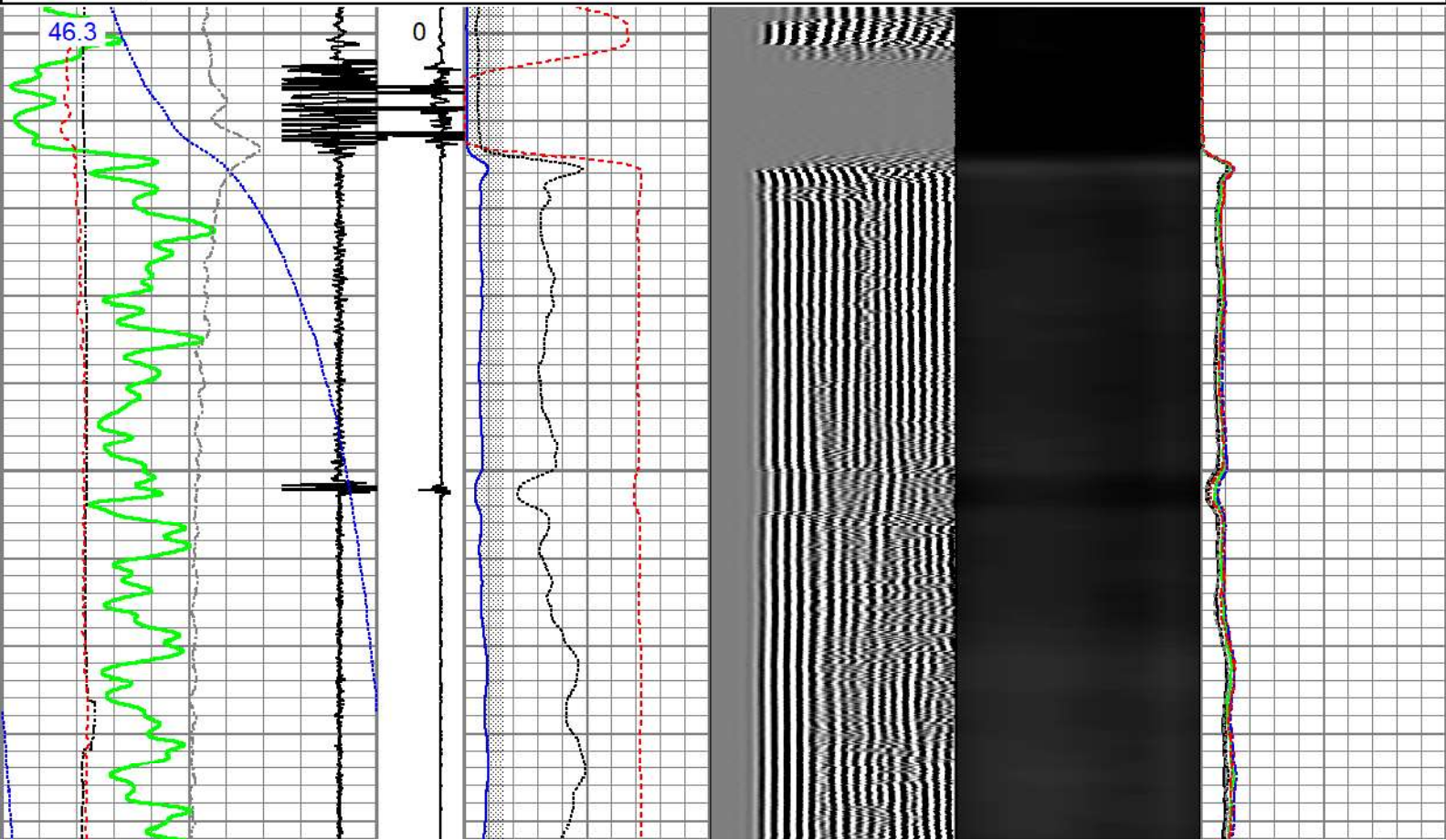


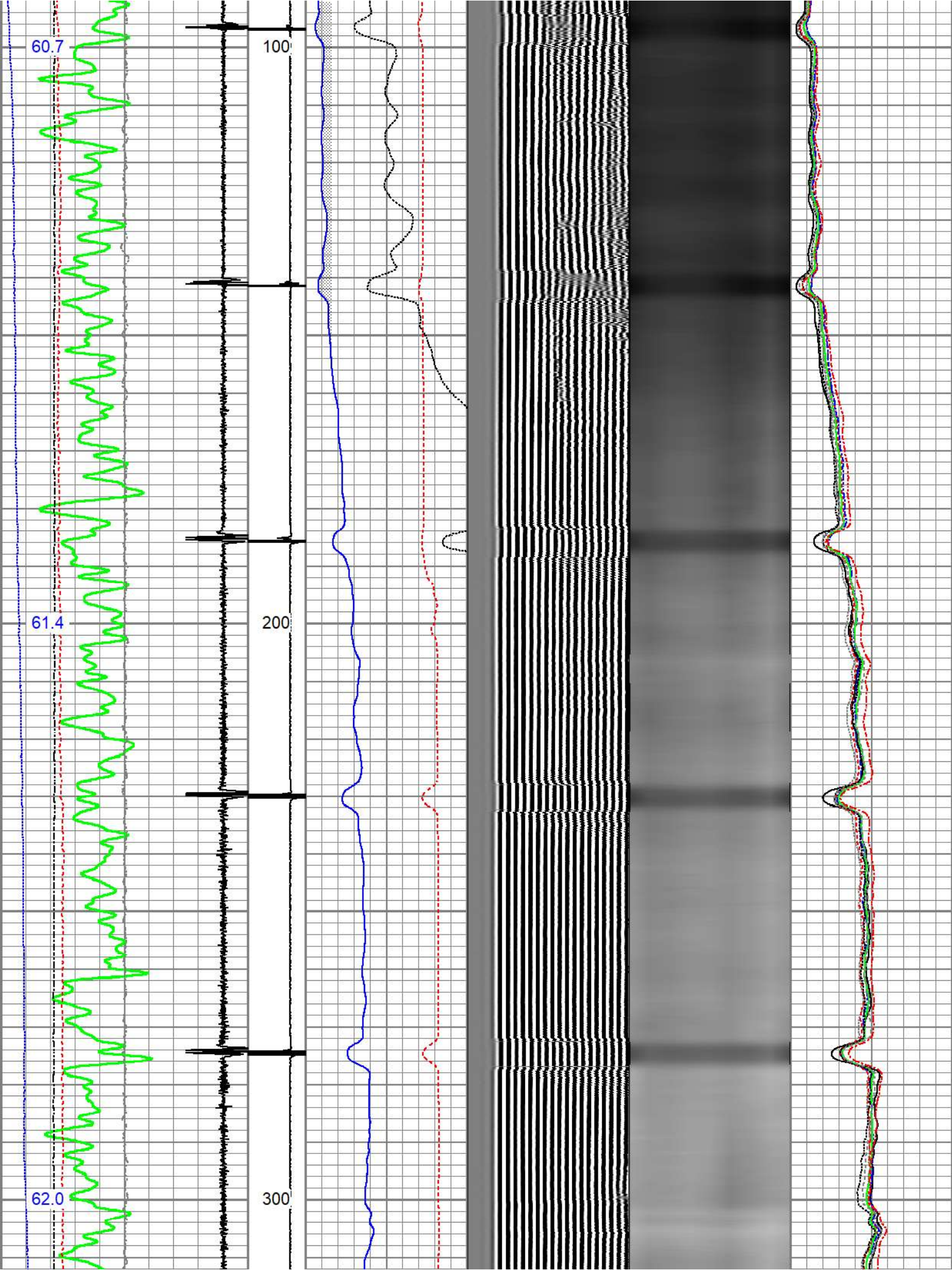
## Main Pass

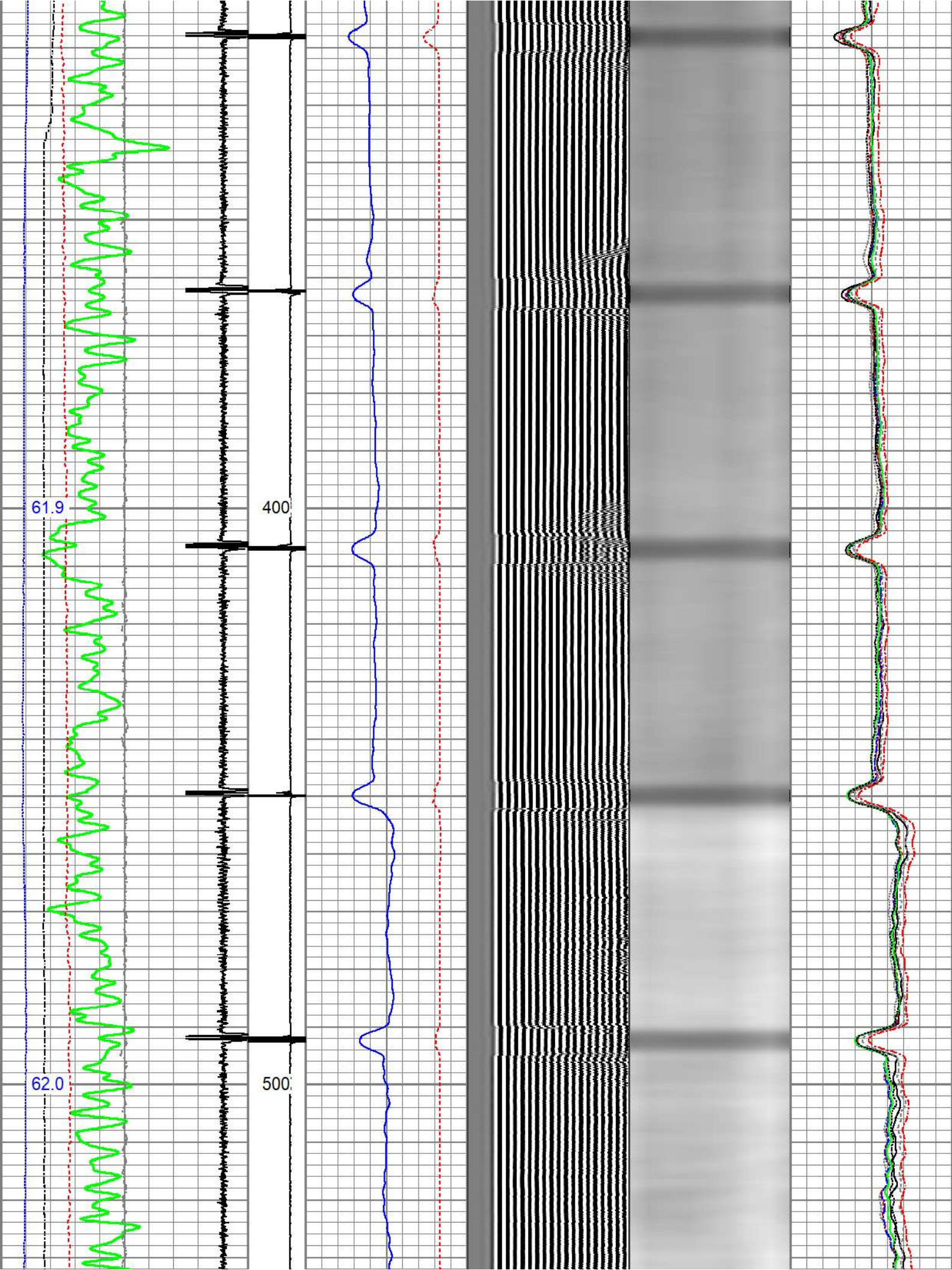
Recorded With 500 PSI Surface Induced Pressure

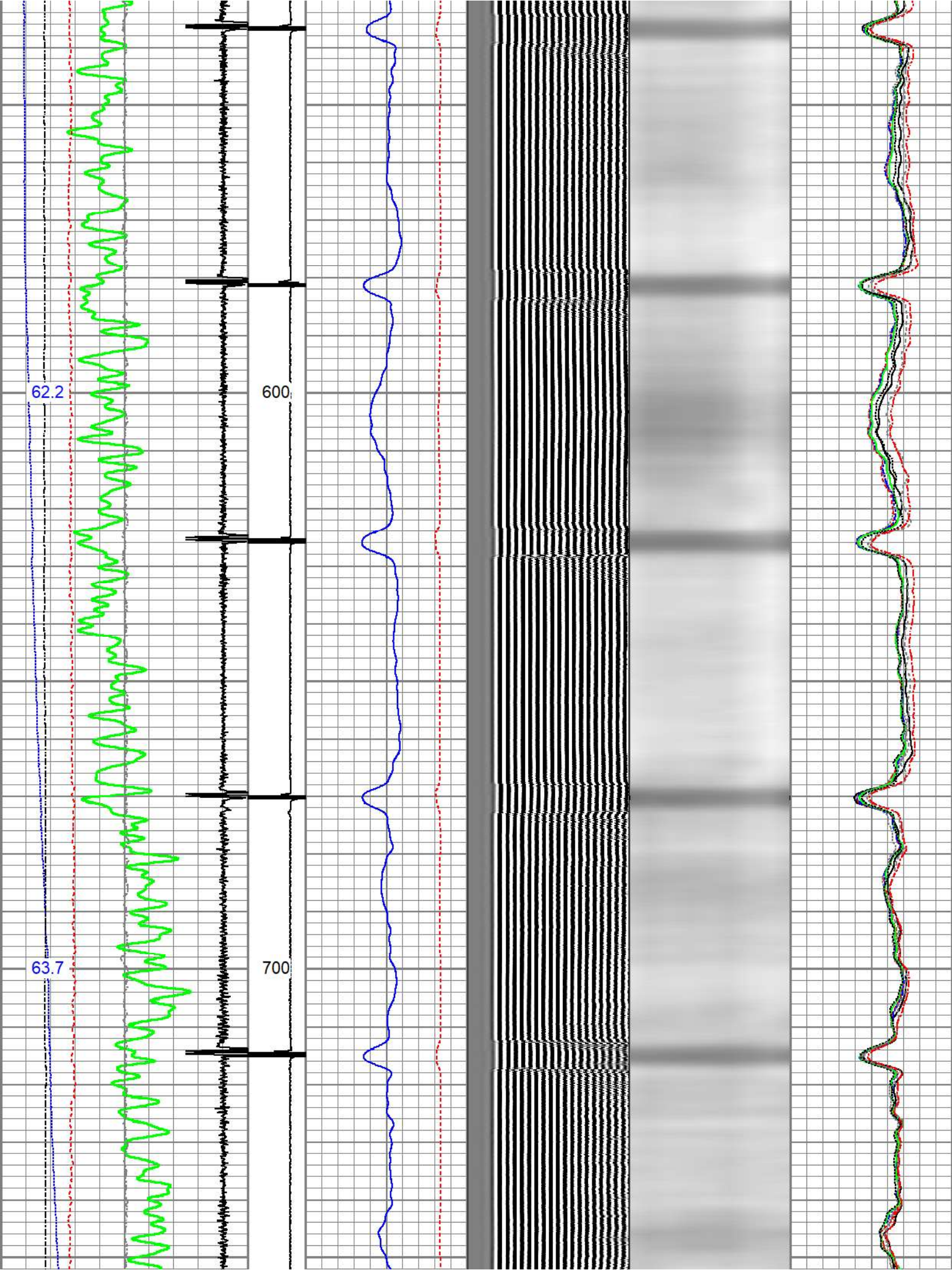
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 Dataset Pathname pass2.1  
 Presentation Format edge\_rbl\_oxy\_vert\_gobo\_45  
 Dataset Creation Tue Feb 01 12:45:01 2022  
 Charted by Depth in Feet scaled 1:240

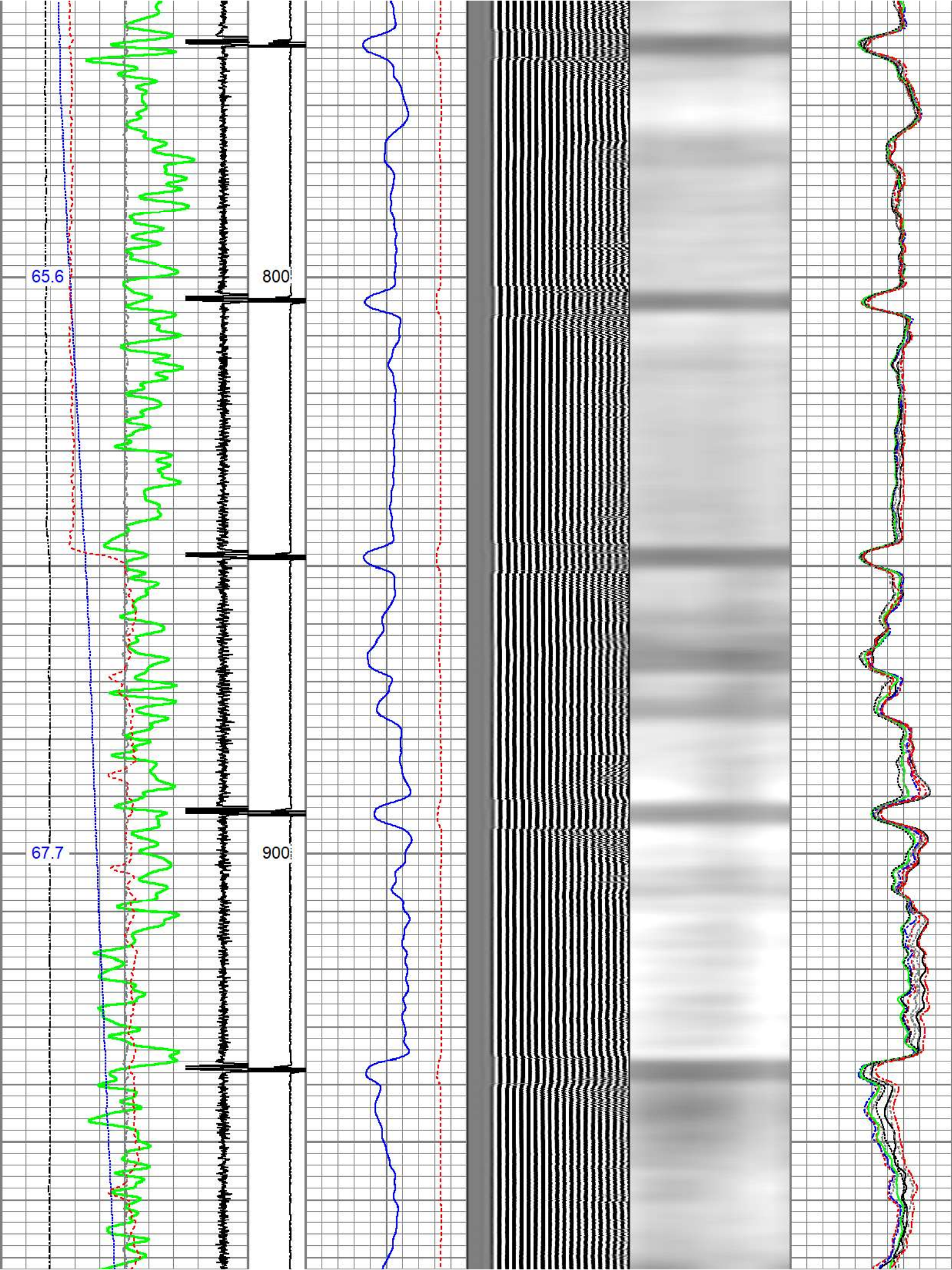
0	Gamma Ray (GAPI)	120	CCL\$2	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	9 -1	(mV)	200 (usec)		0	AMP S2	100
0	Temperature (degF)	20		3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150		(mV)	20		0	AMP S4	100
0	Line Tension (lb)	2000		3' Travel Time		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

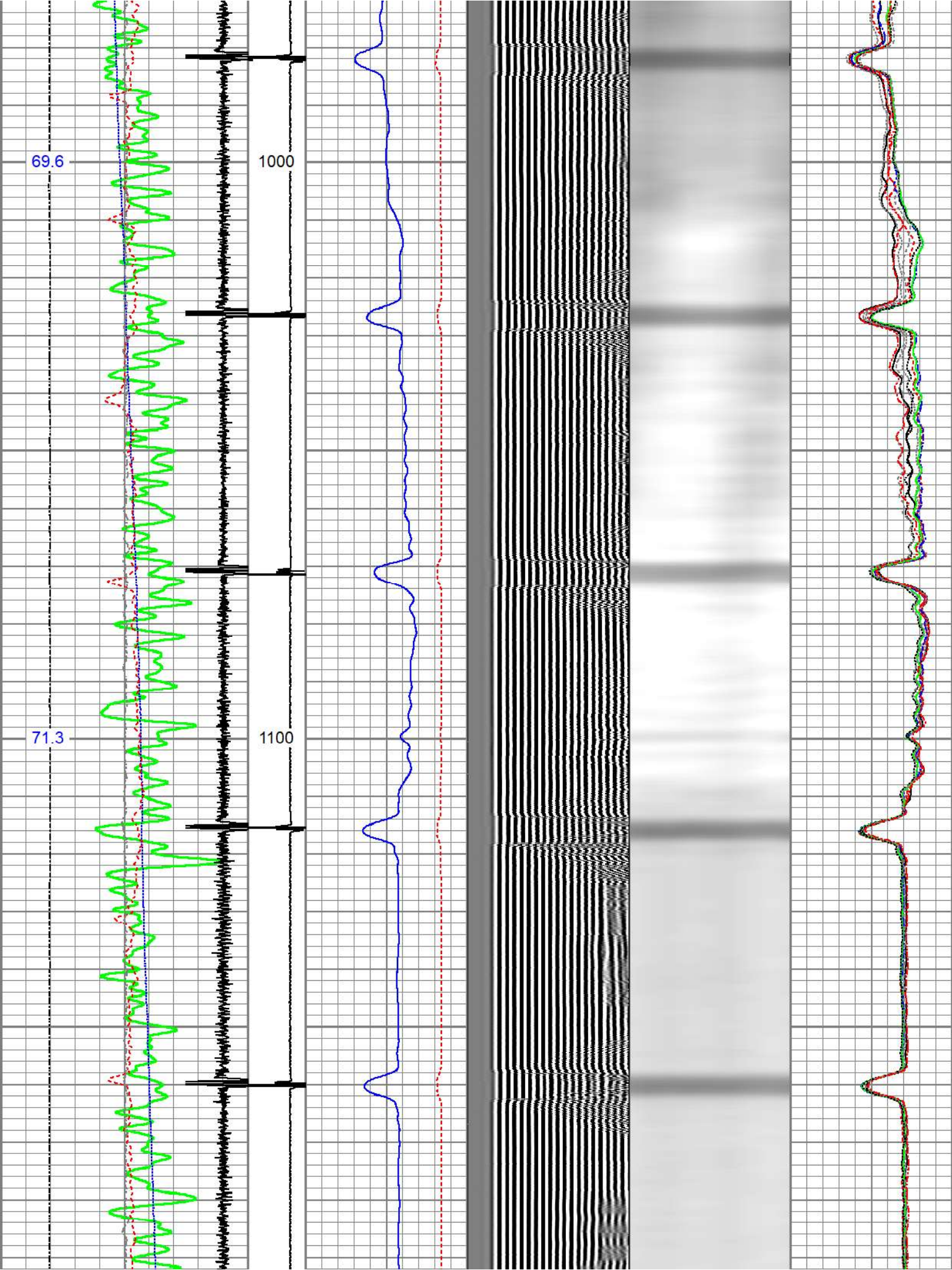












72.6

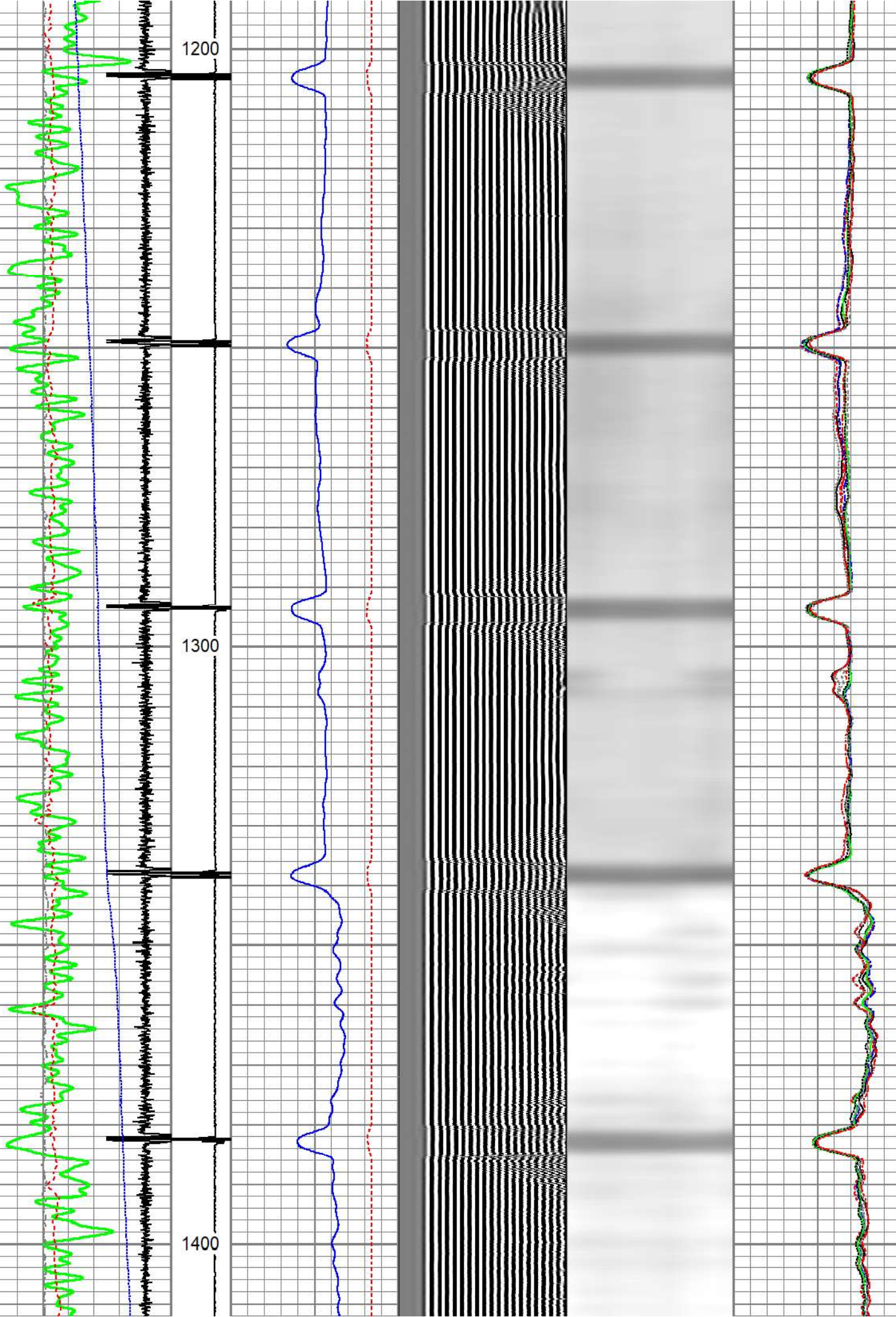
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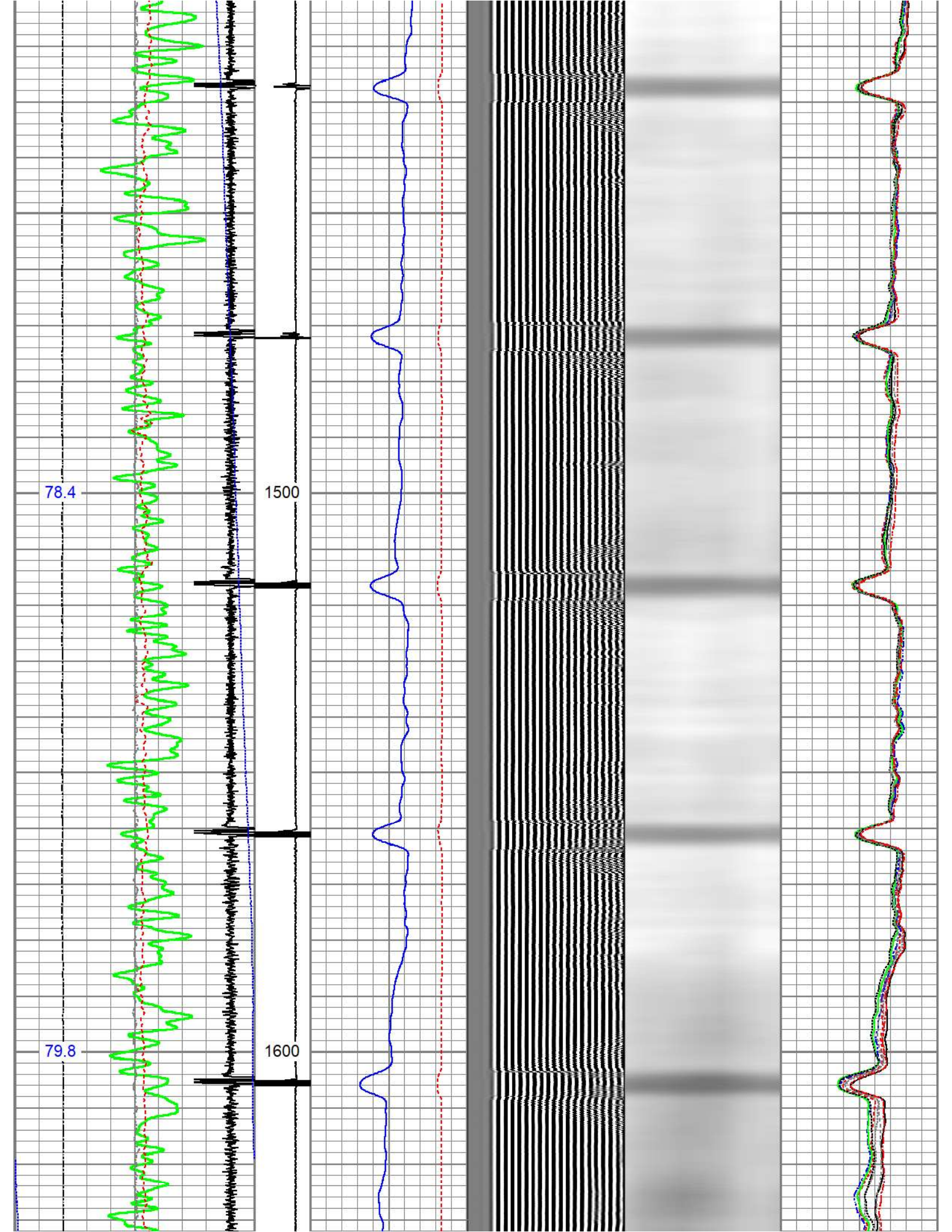
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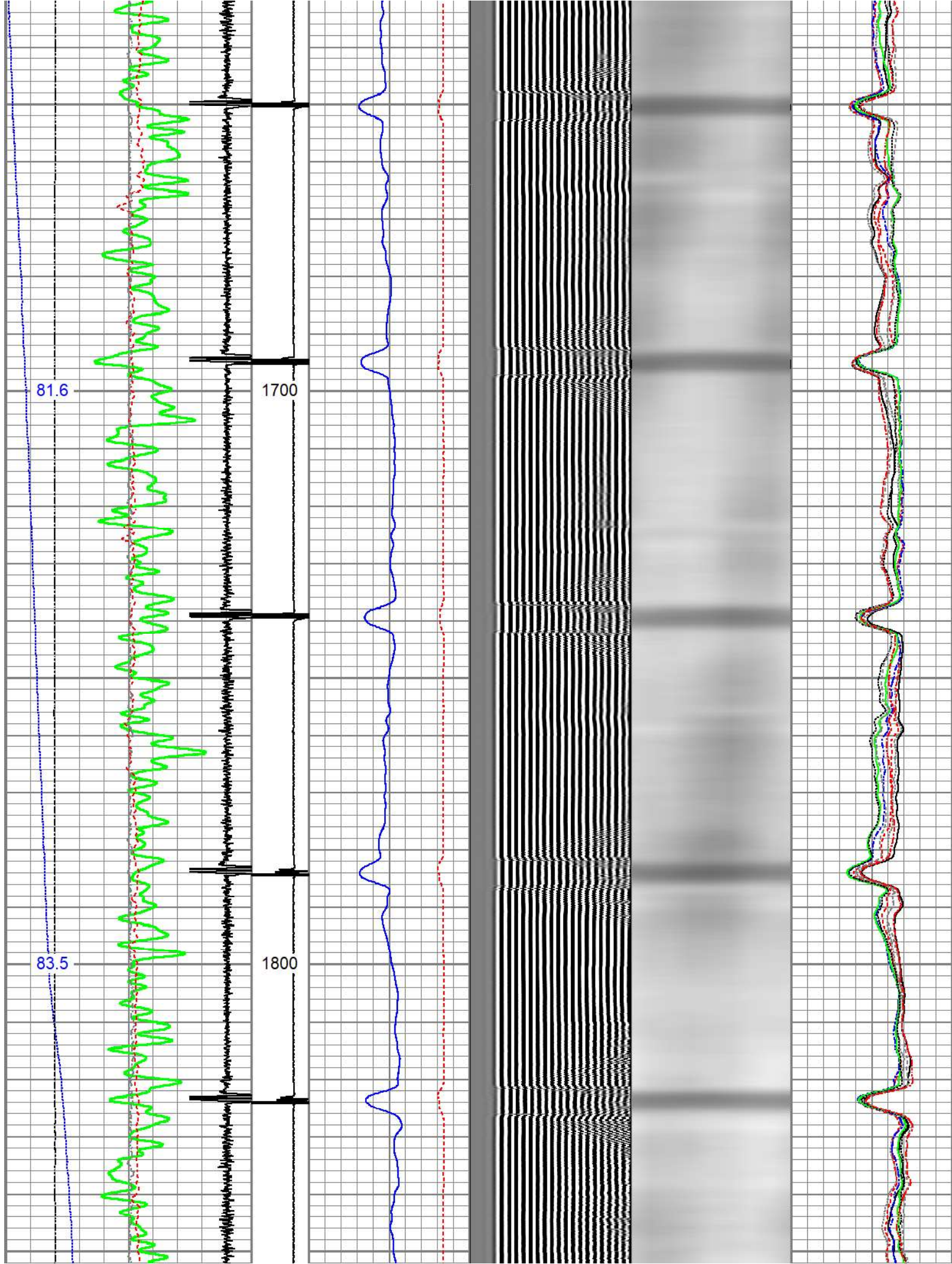
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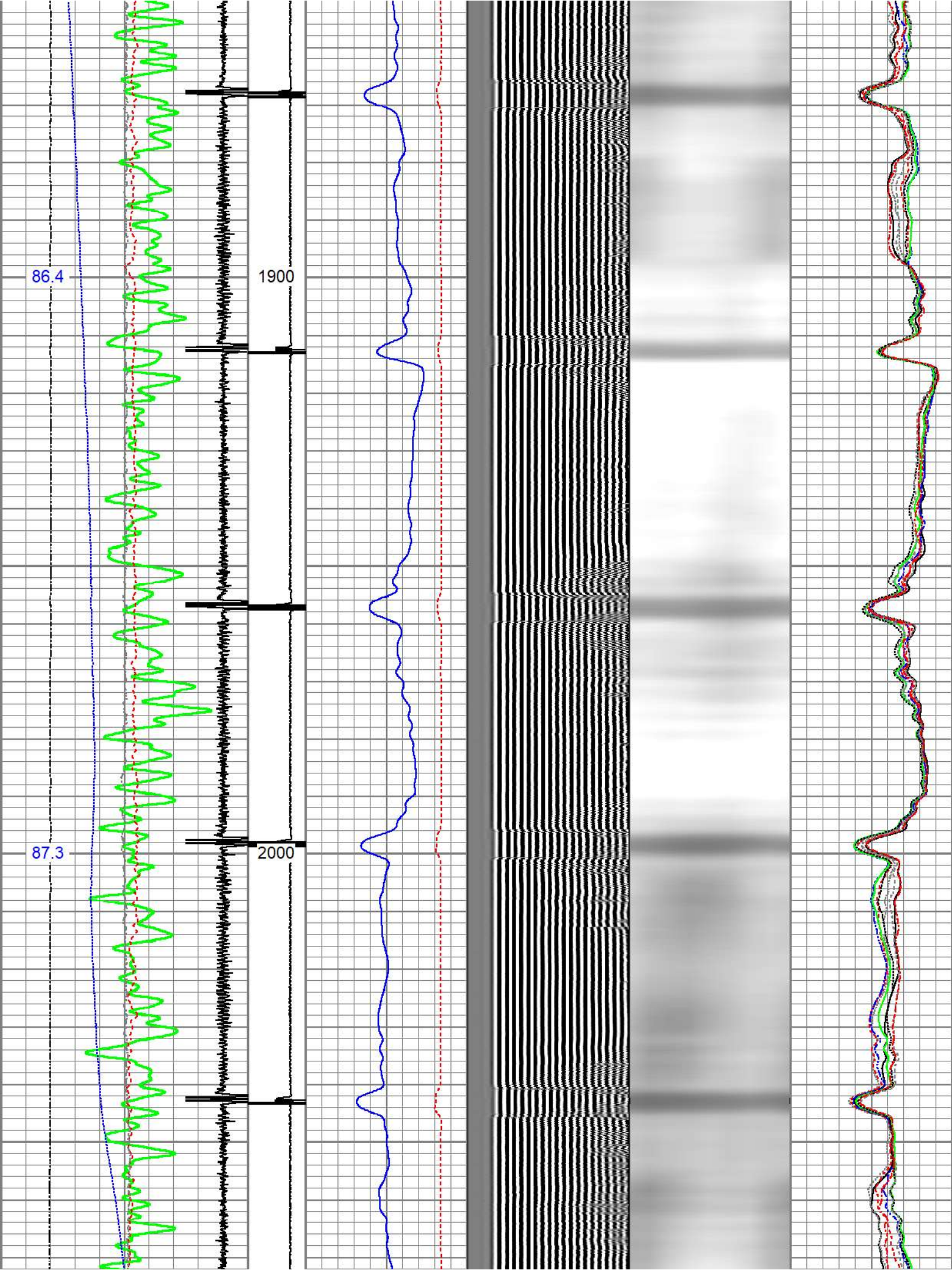
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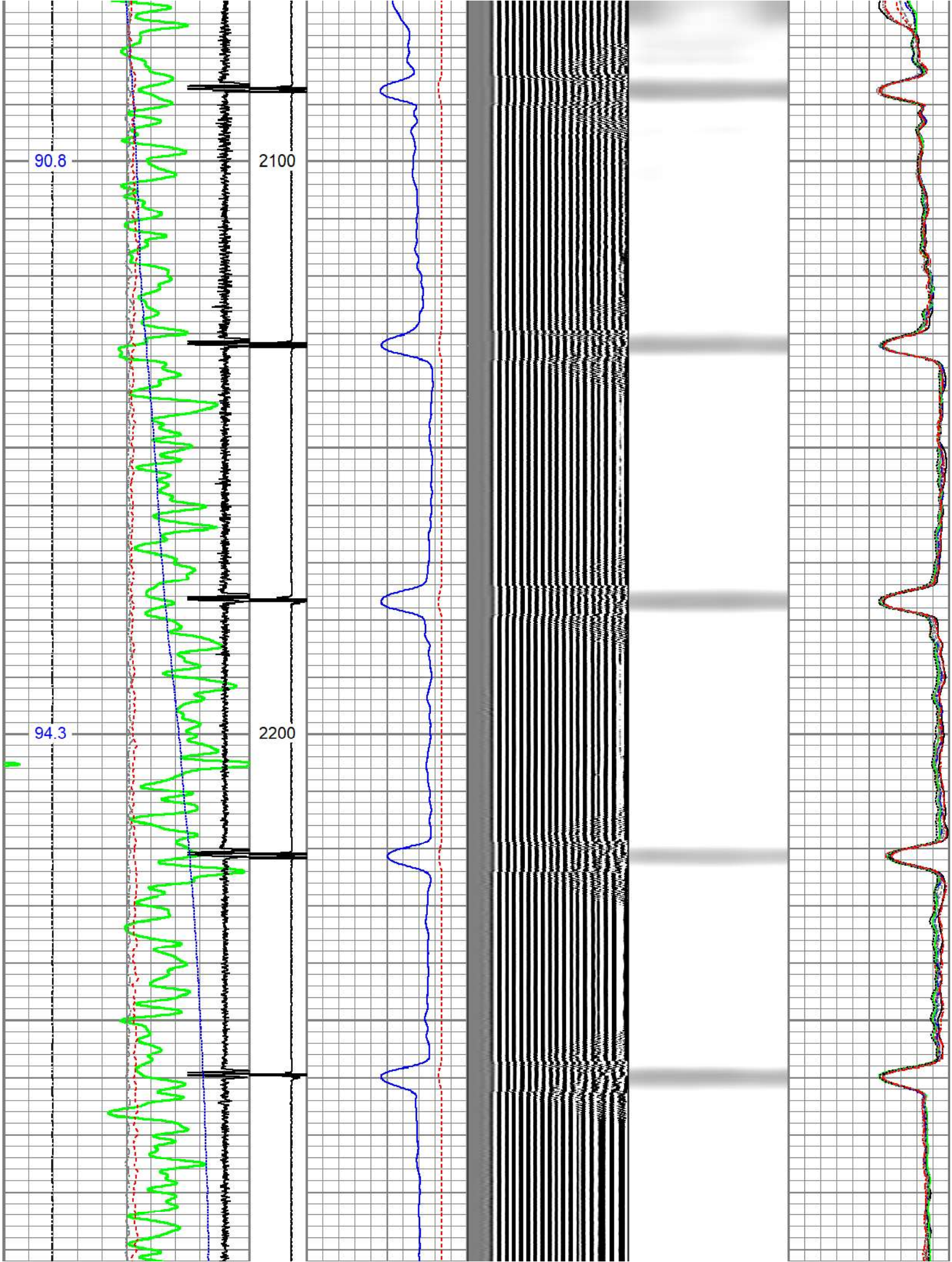
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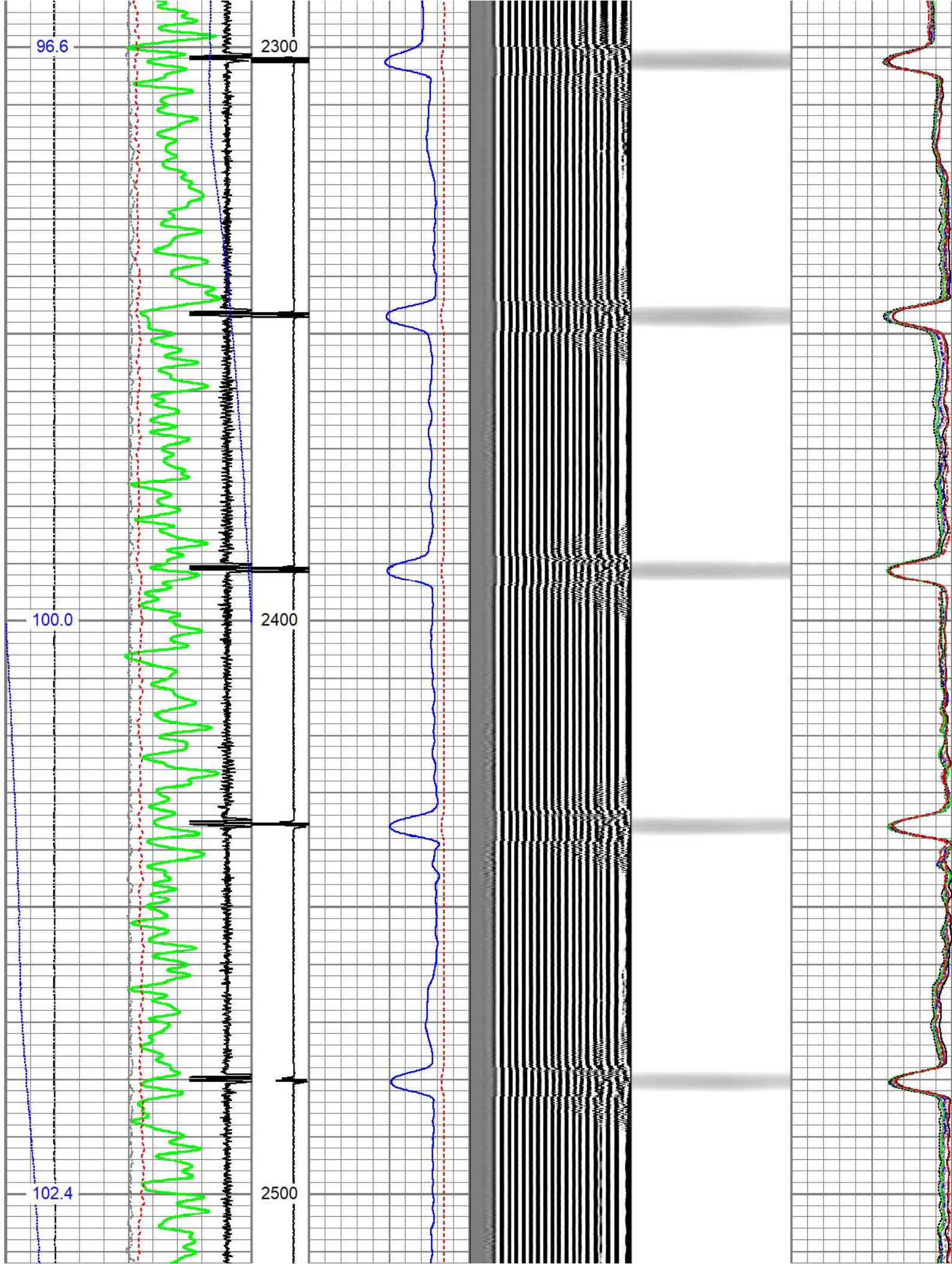


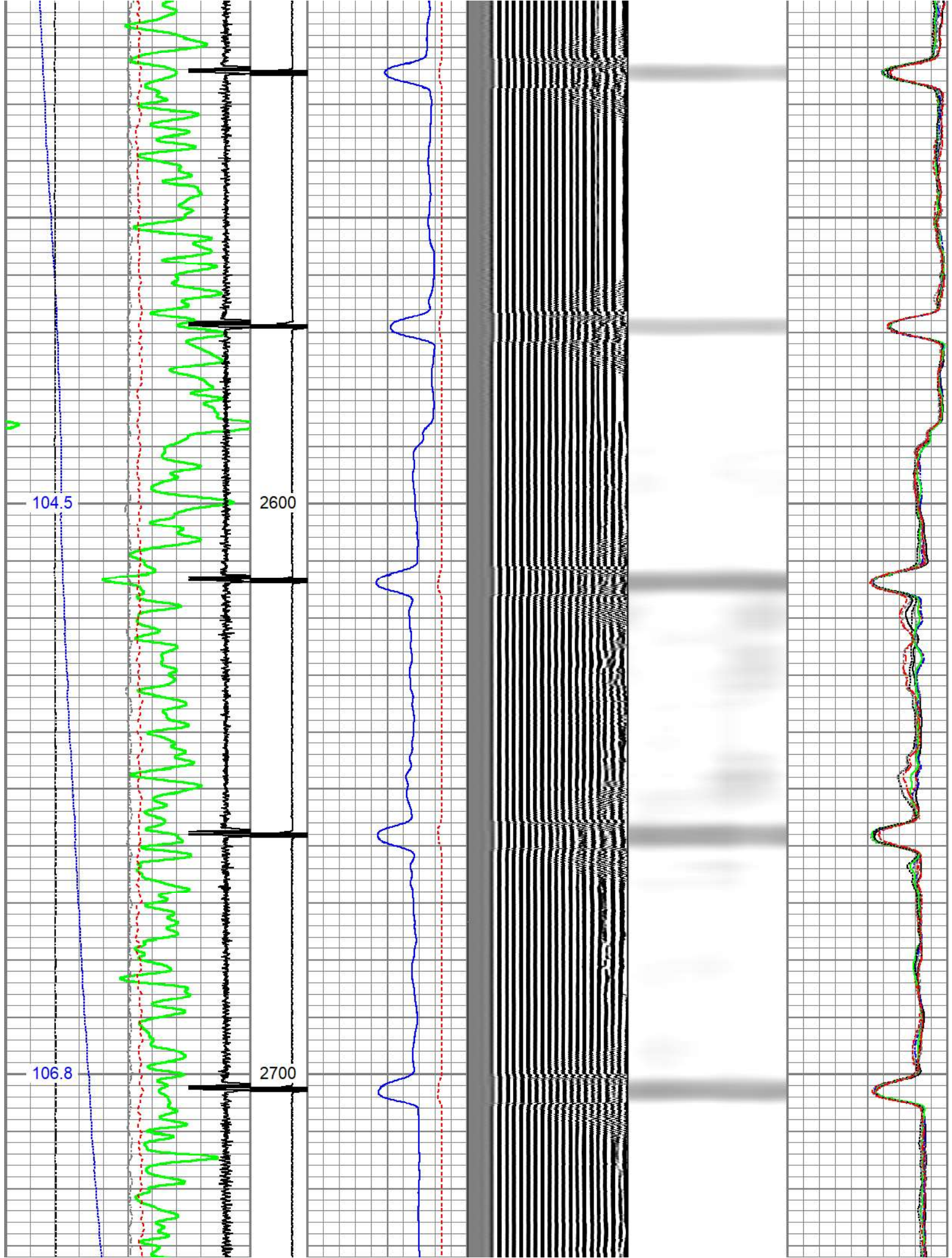


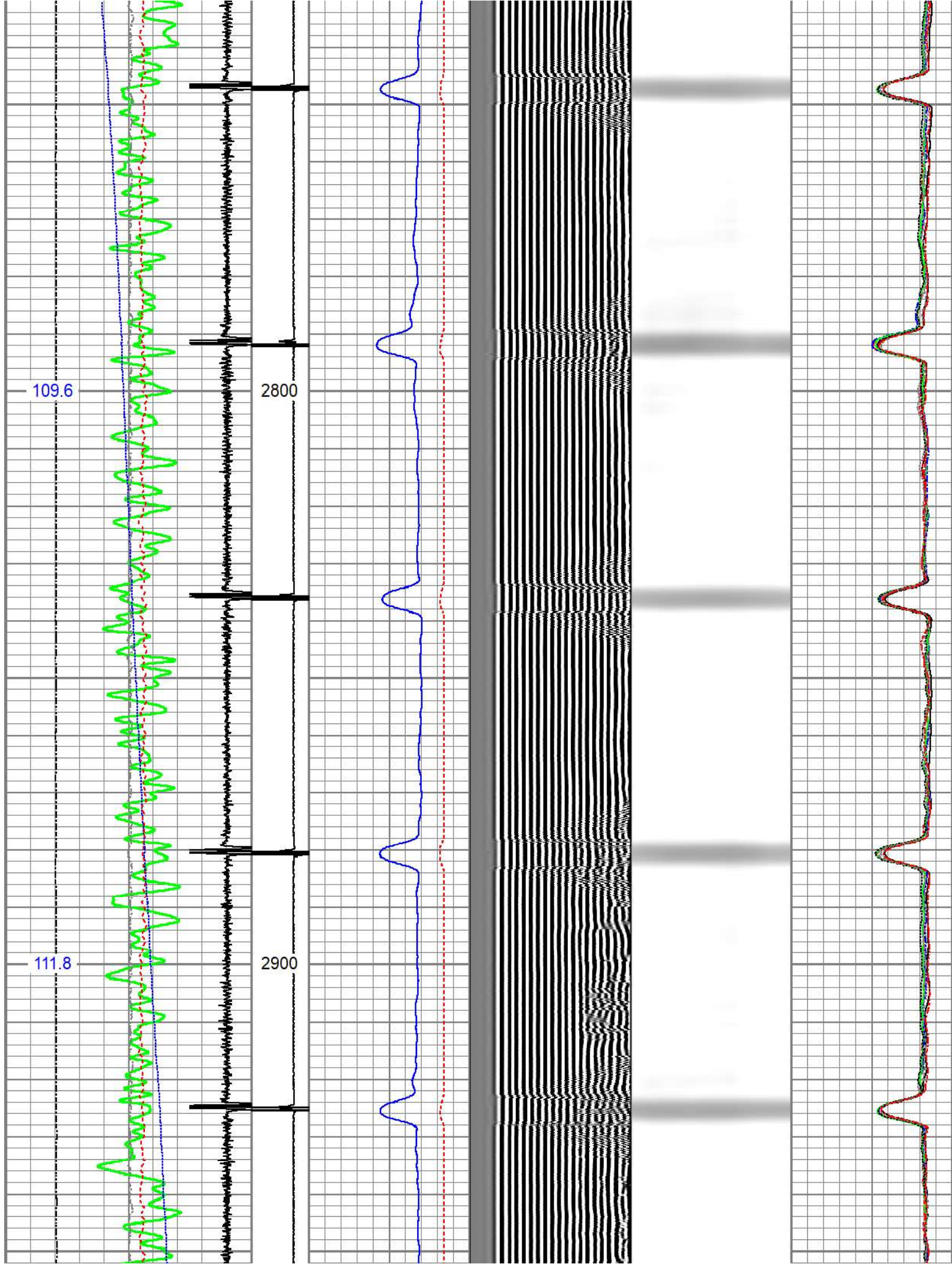


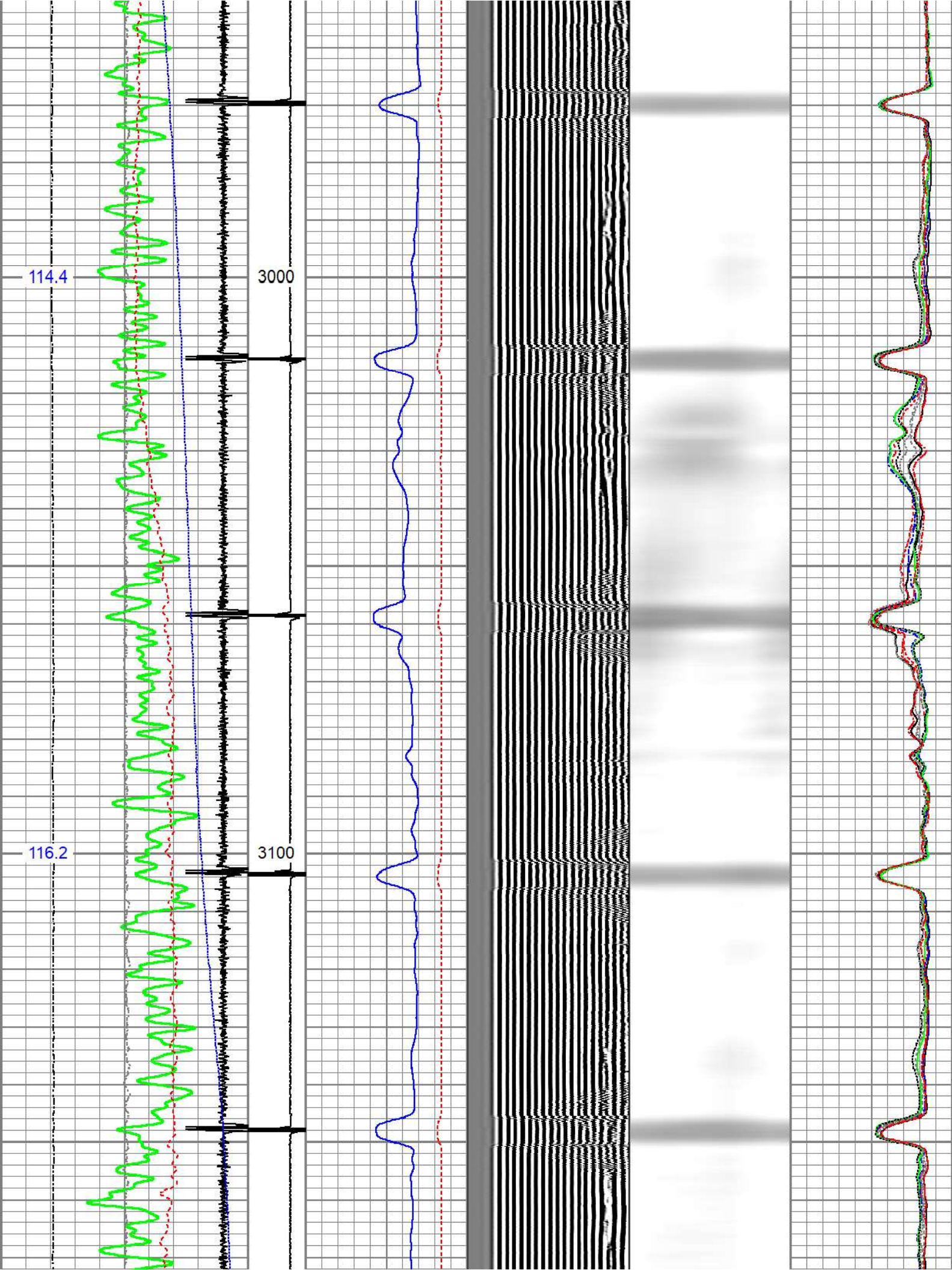


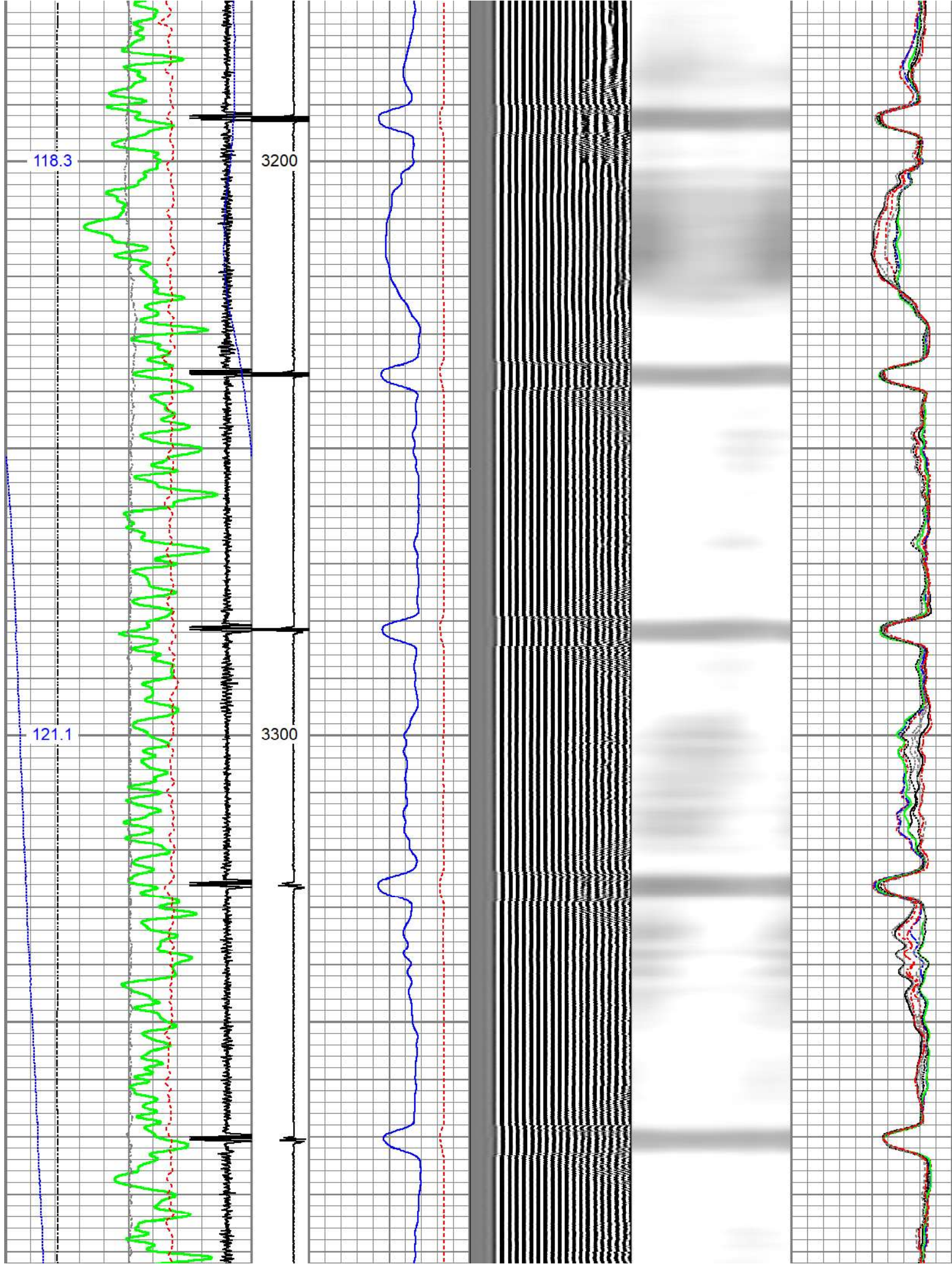


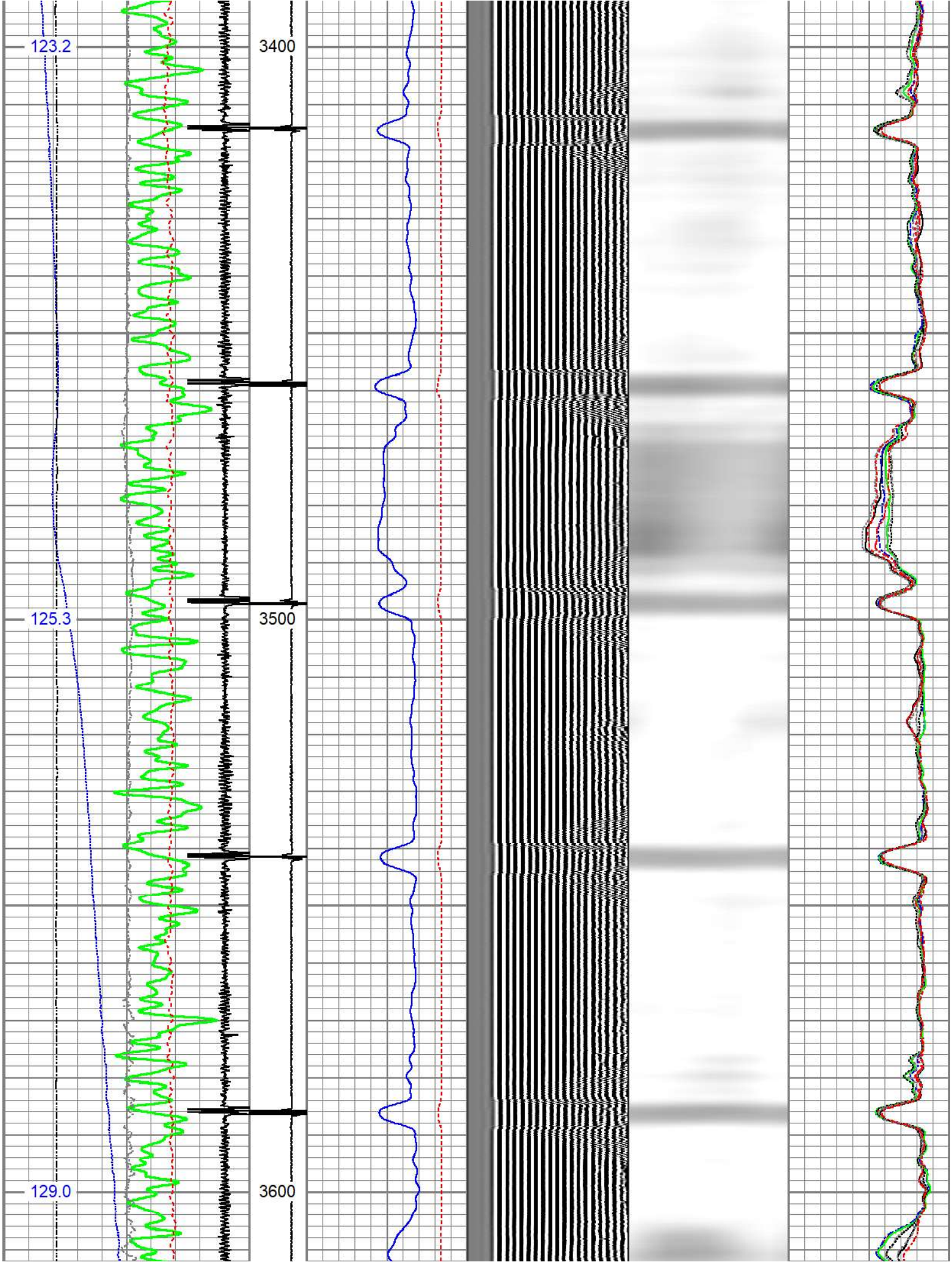


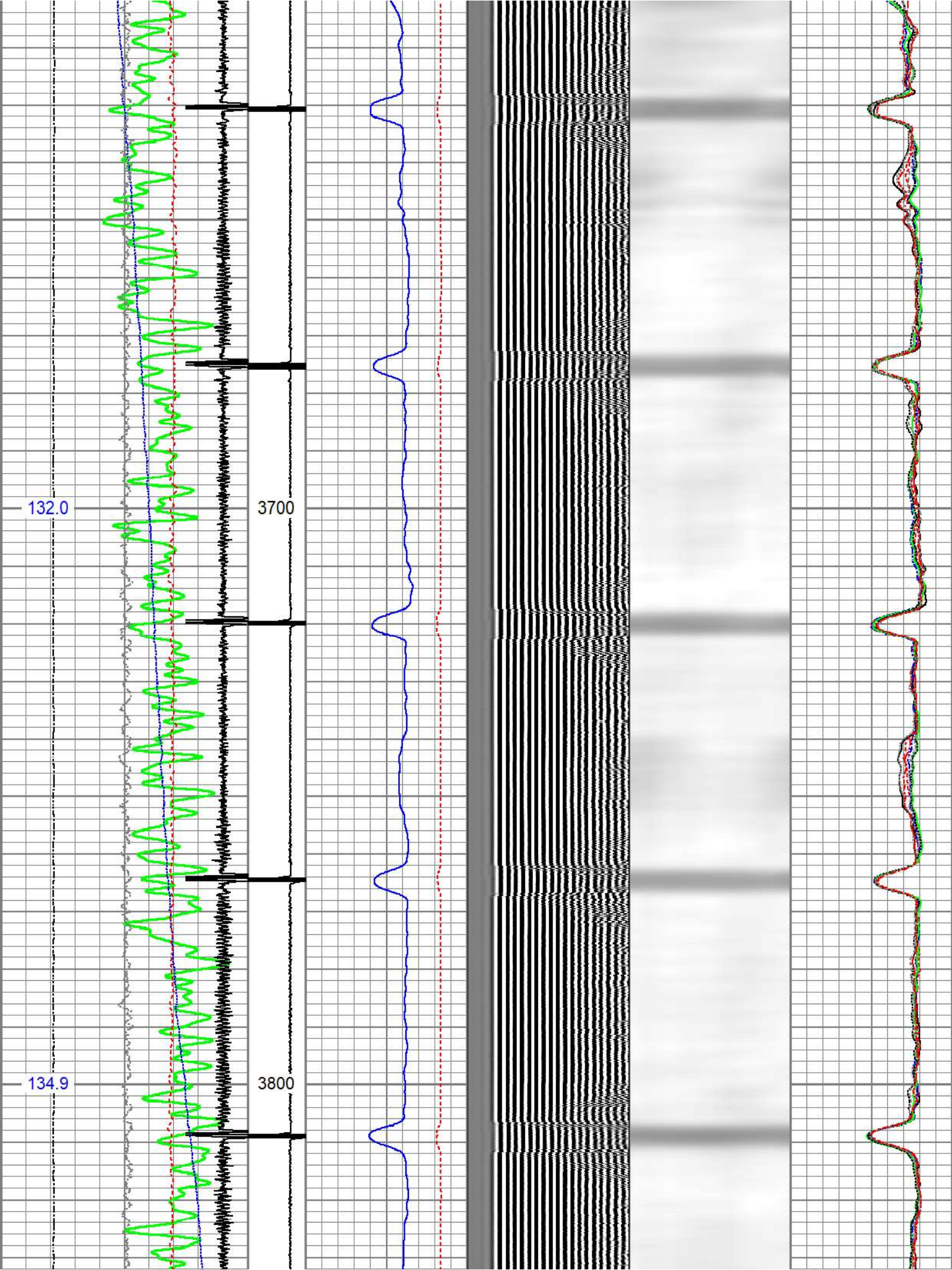


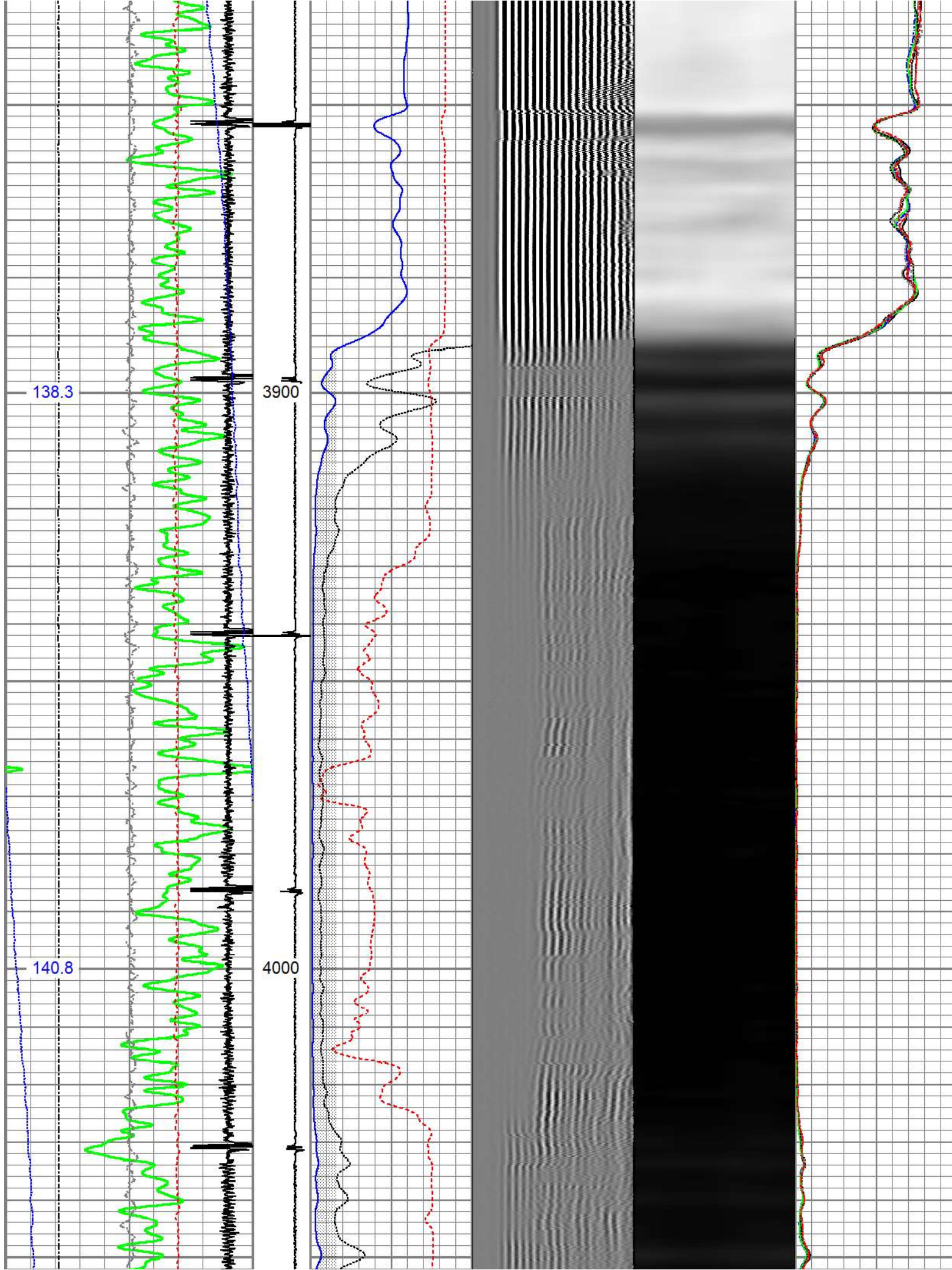


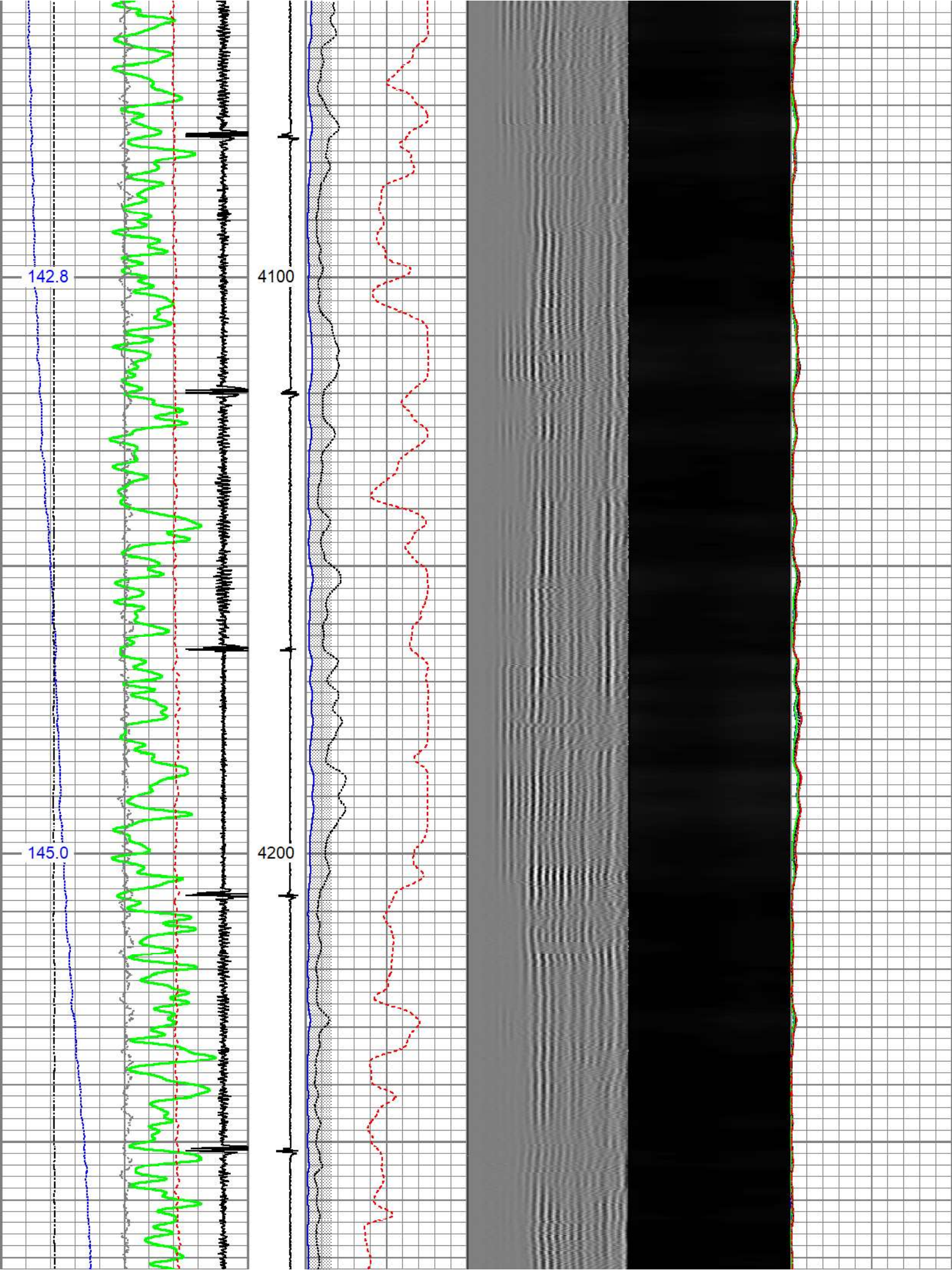


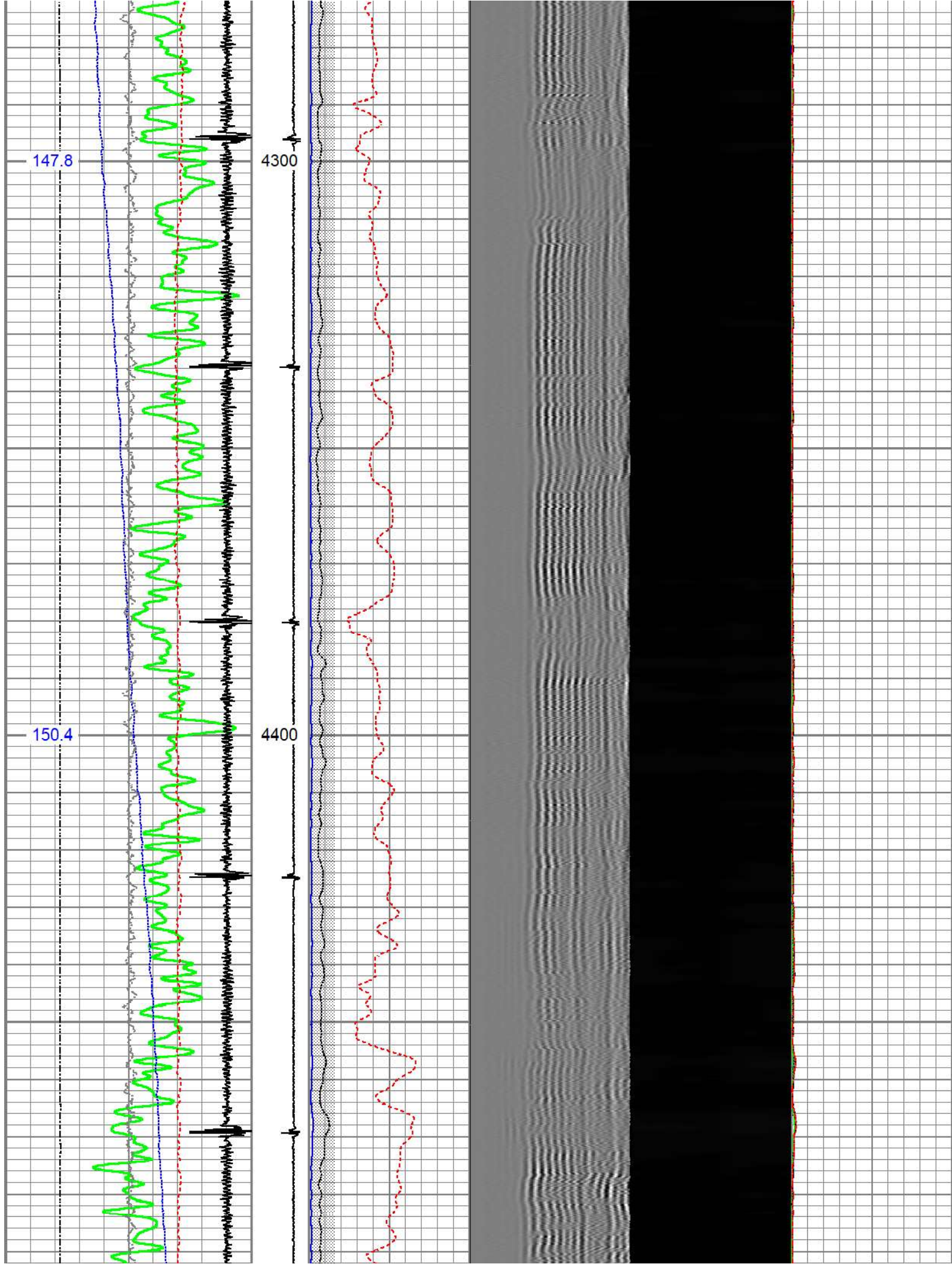


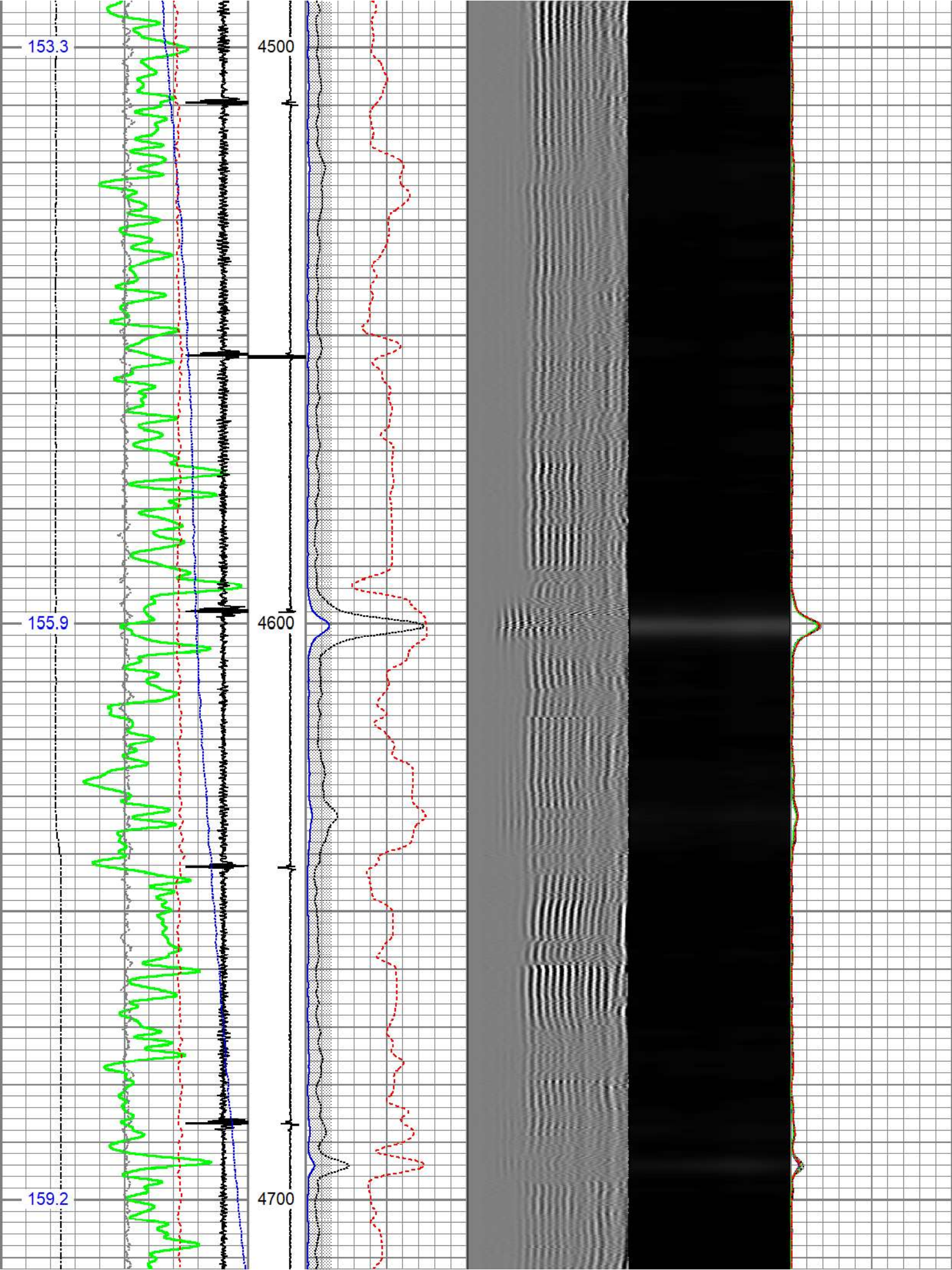


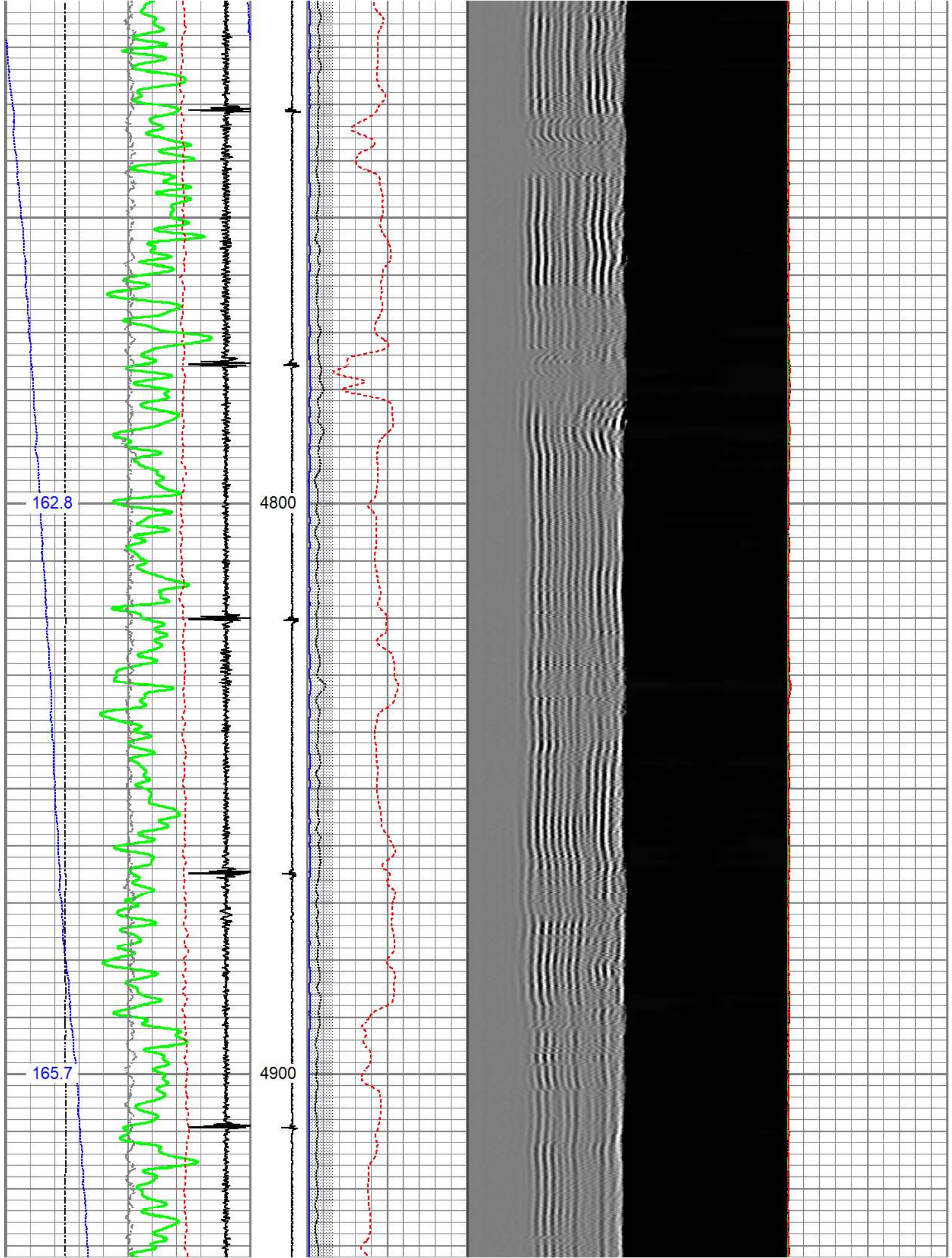


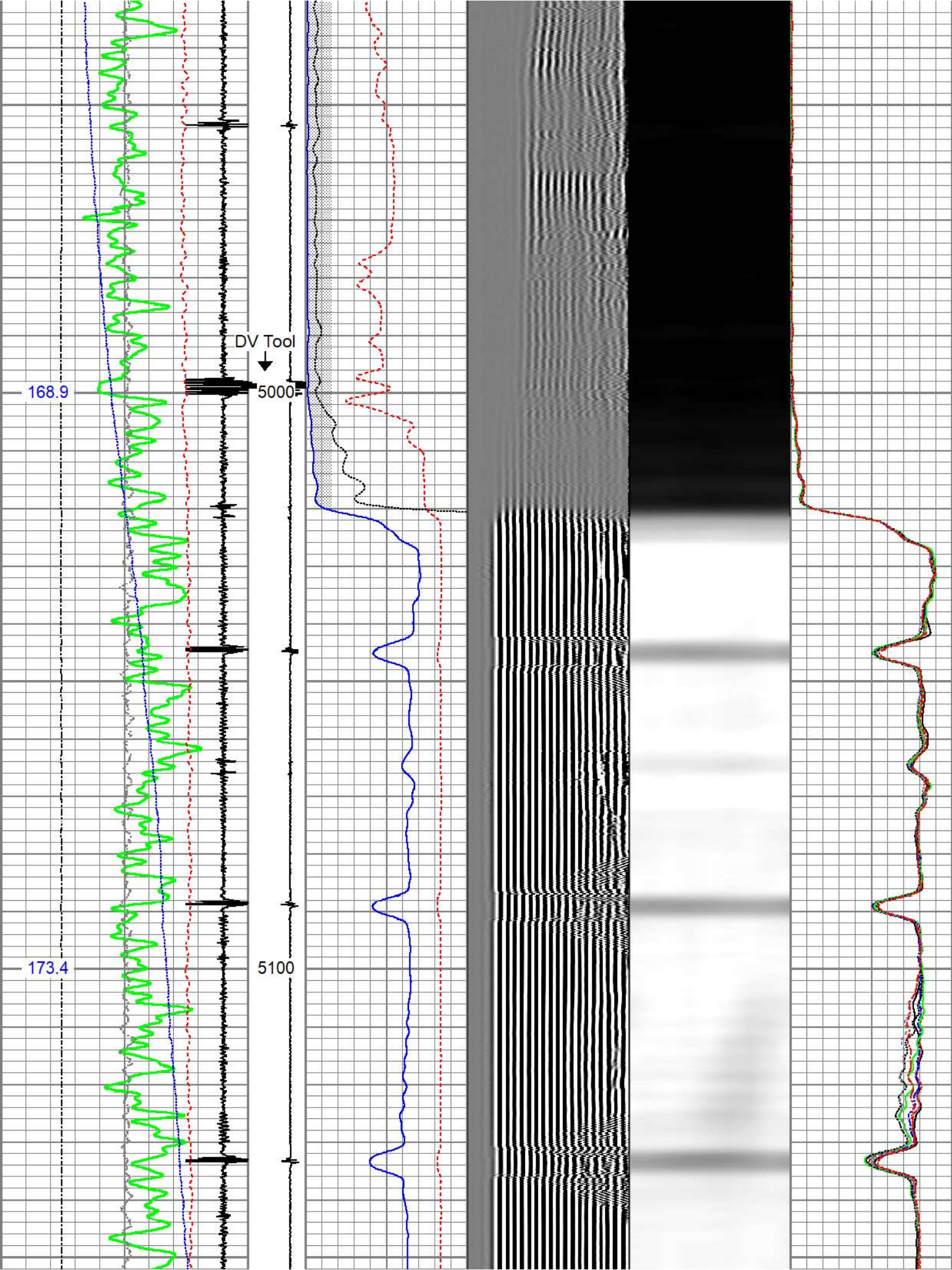


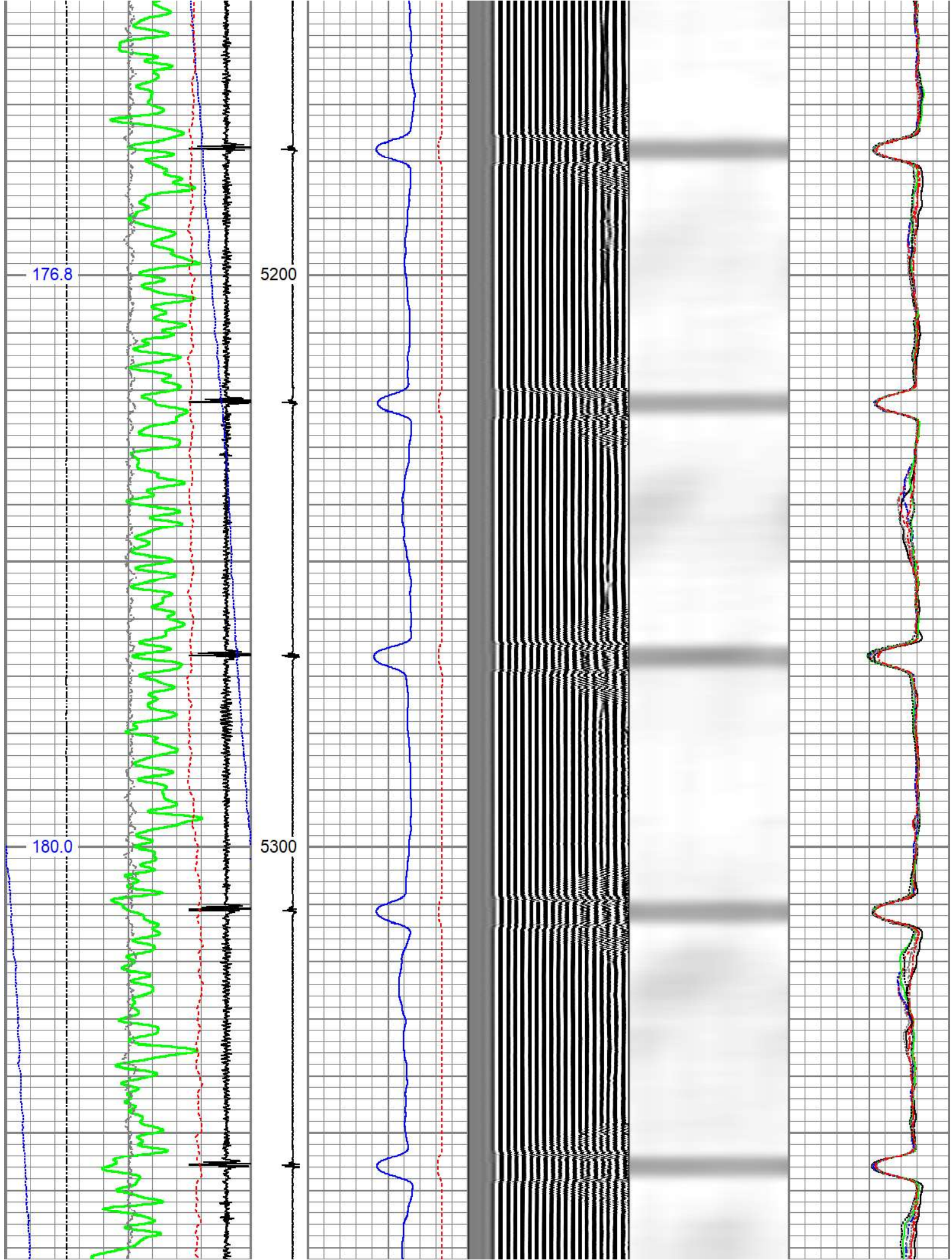


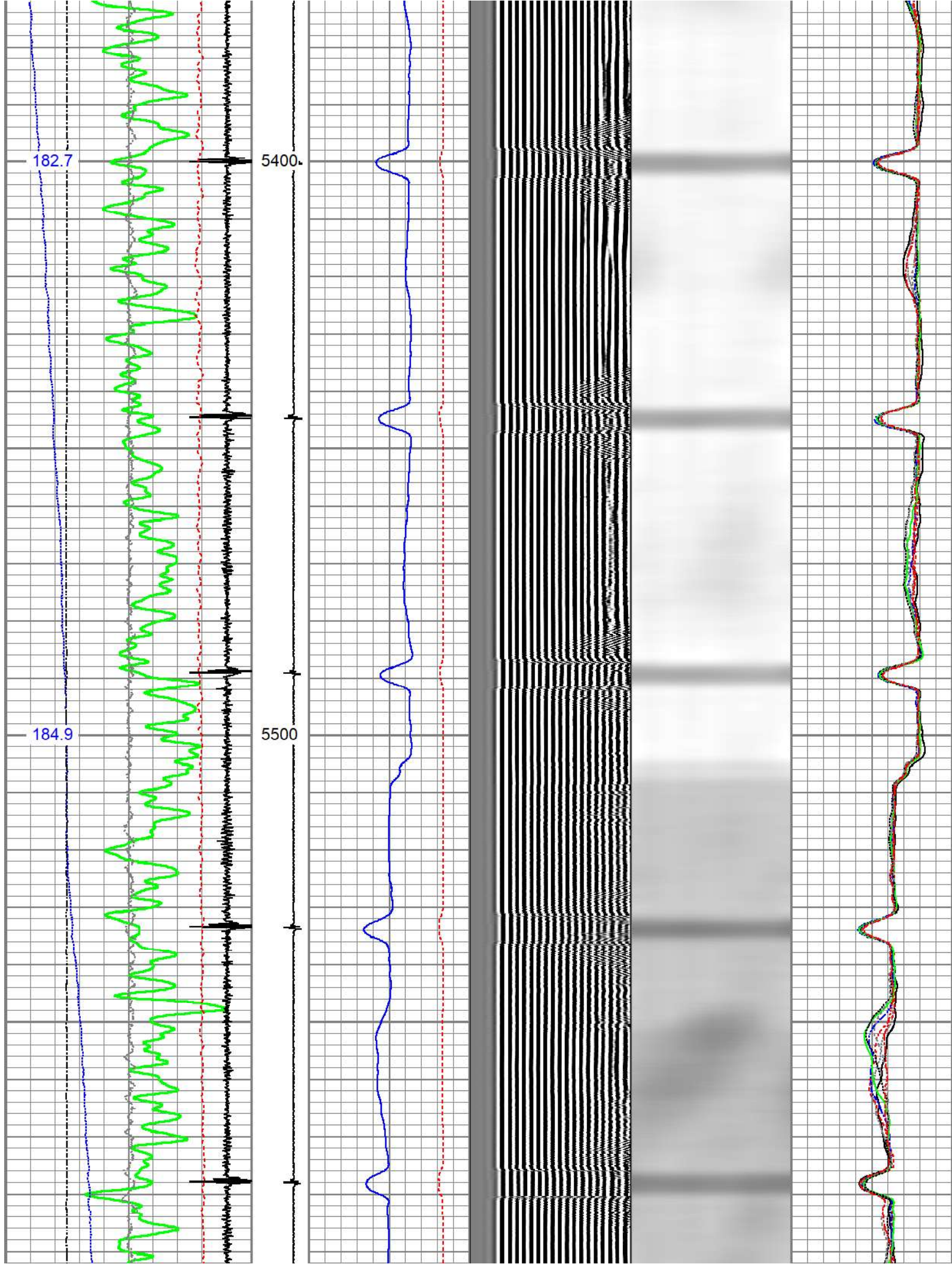


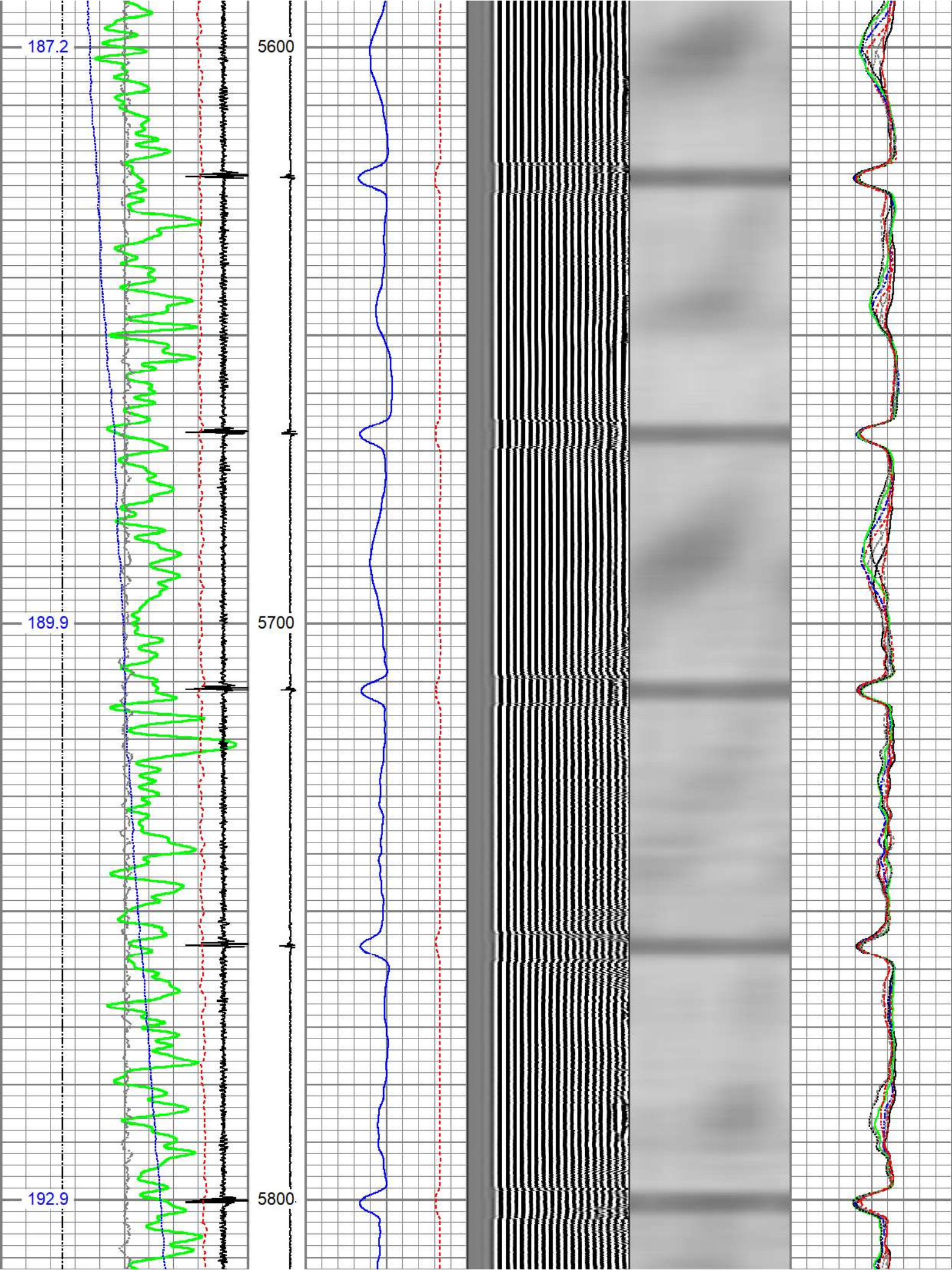


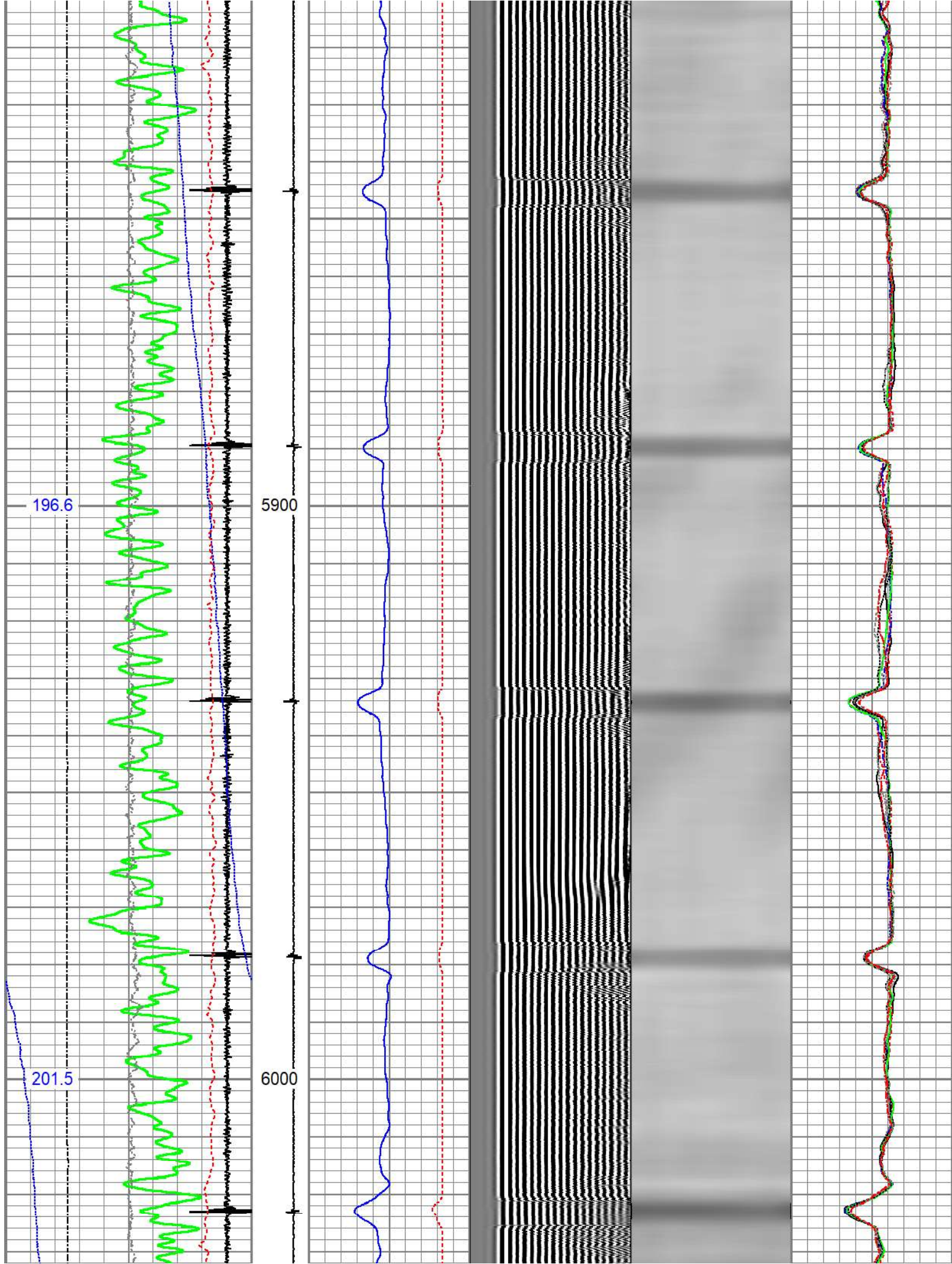


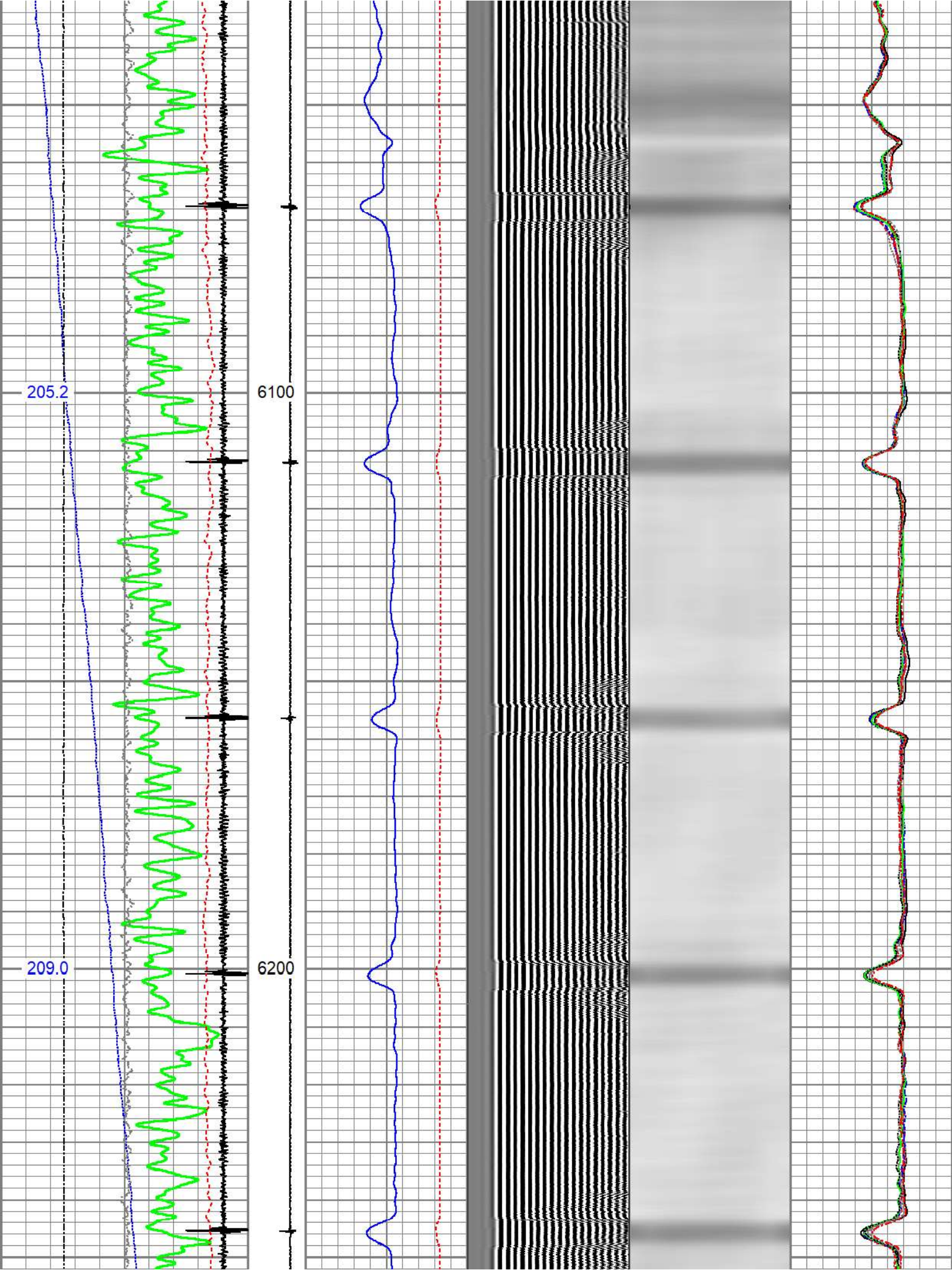


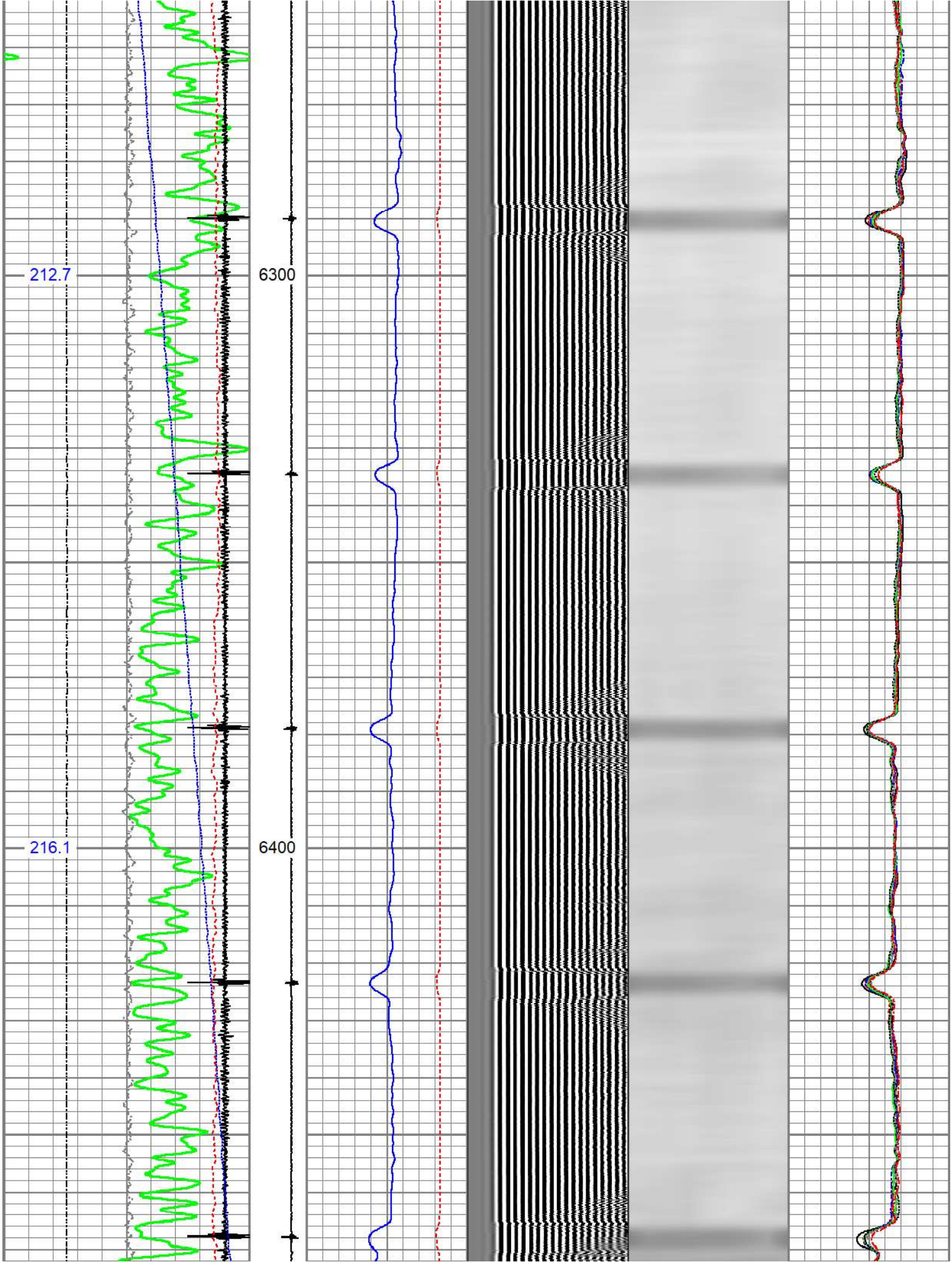


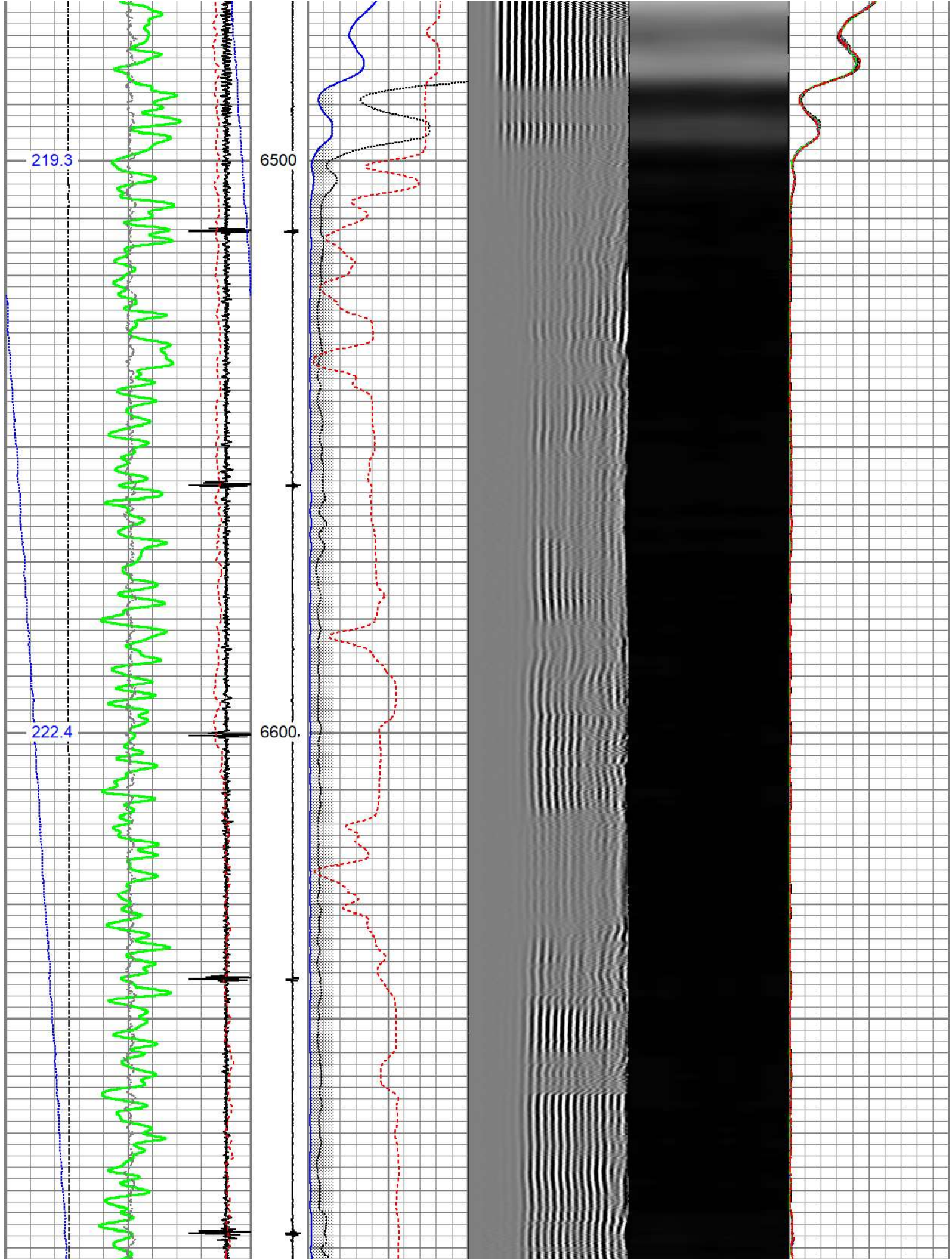


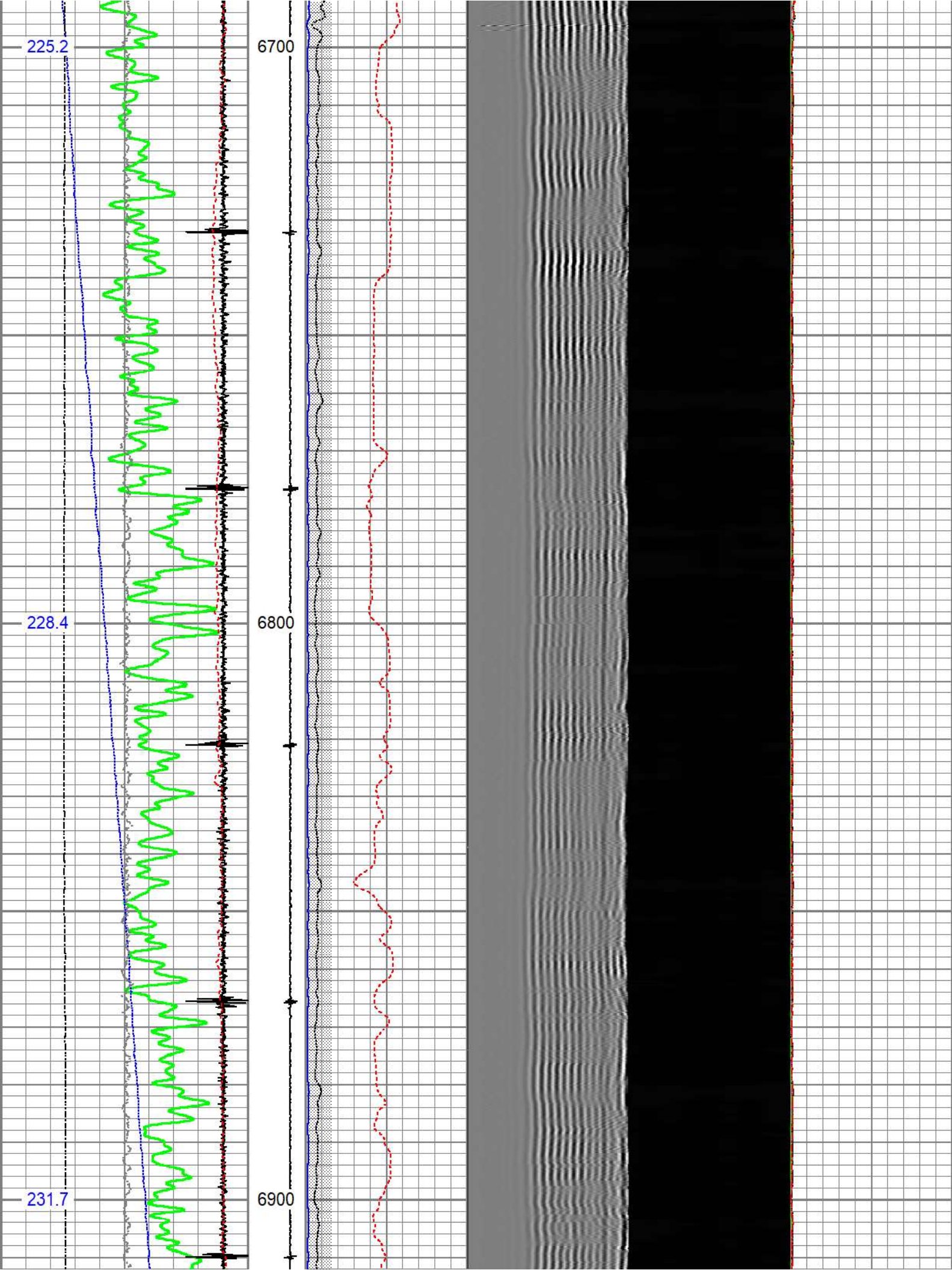


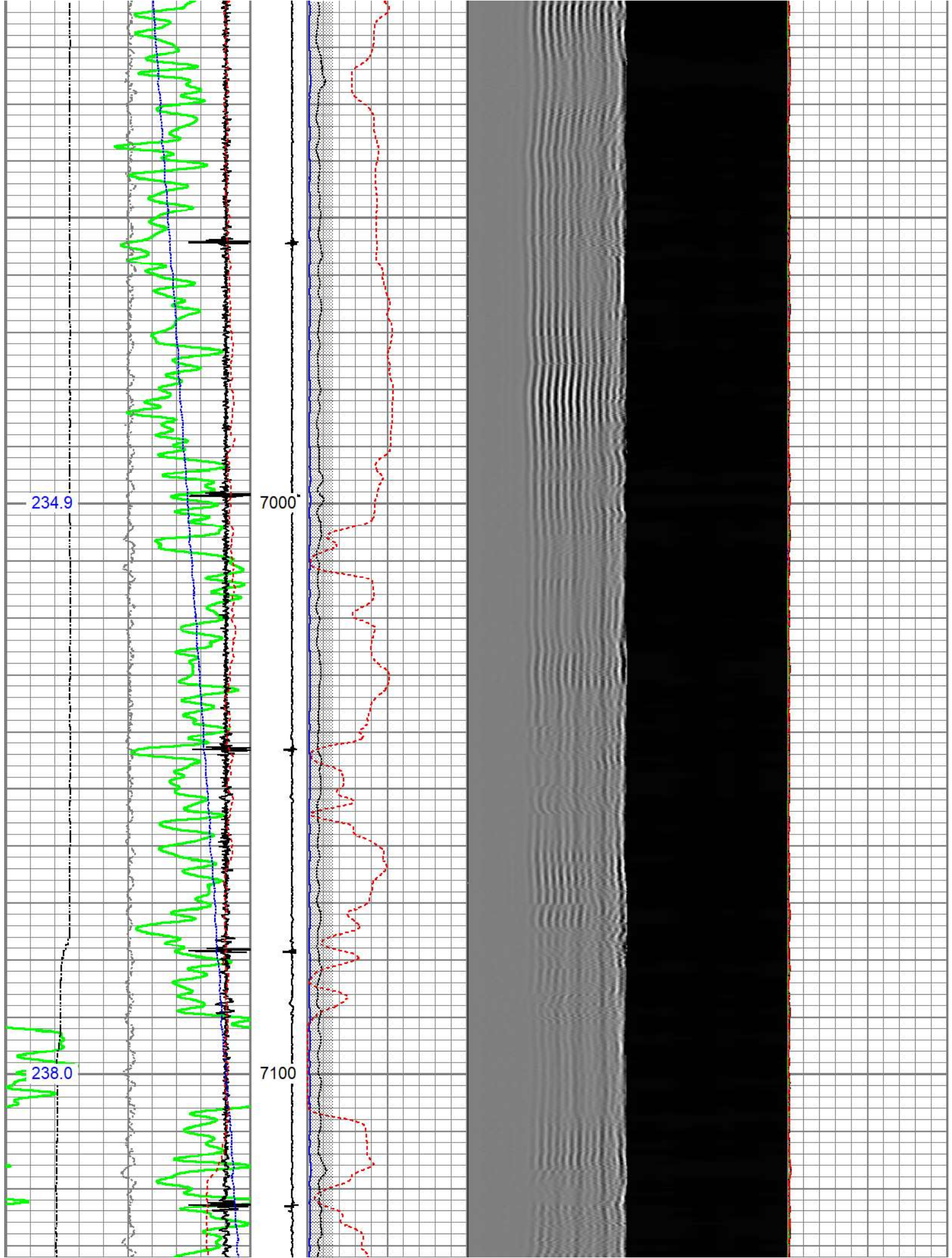


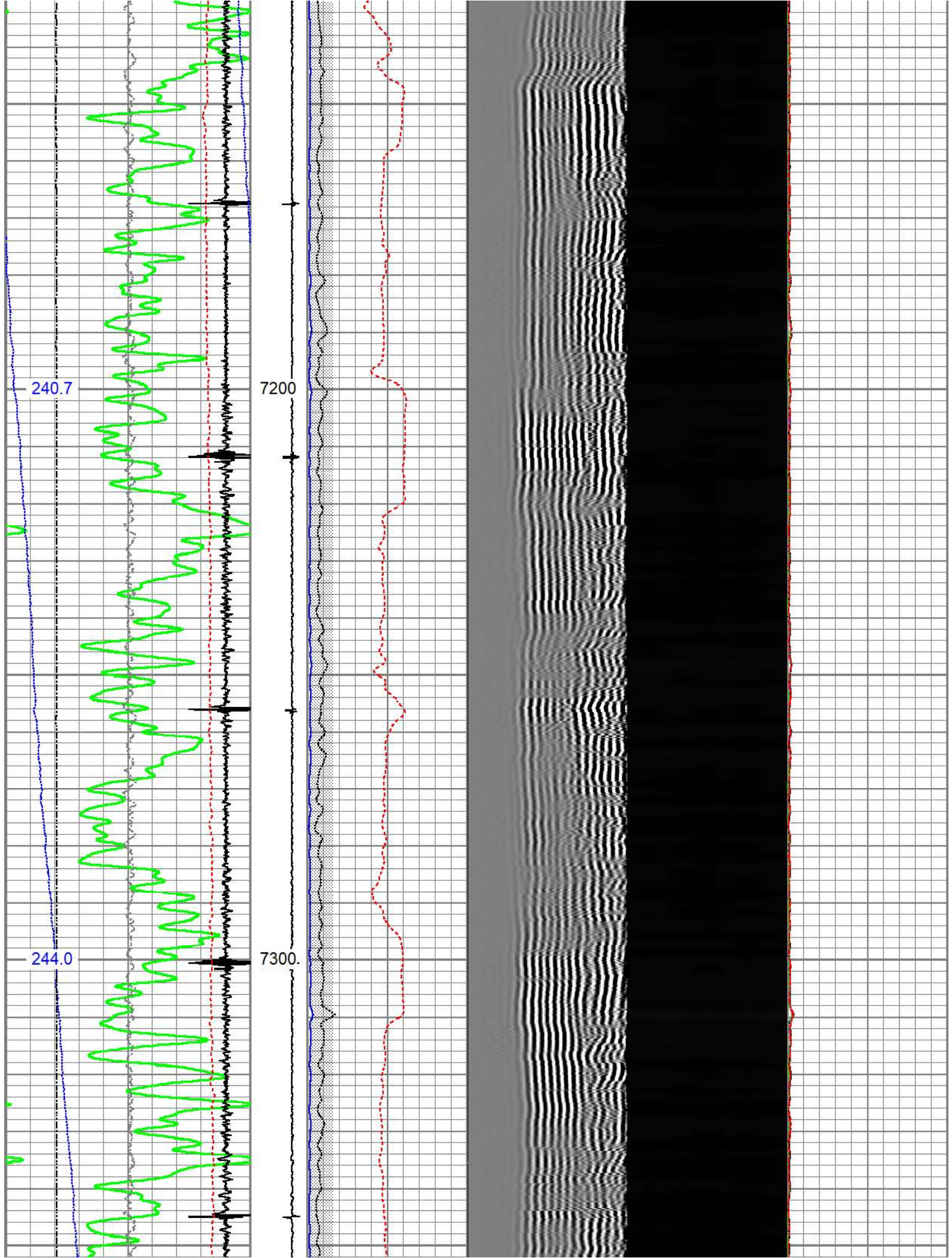


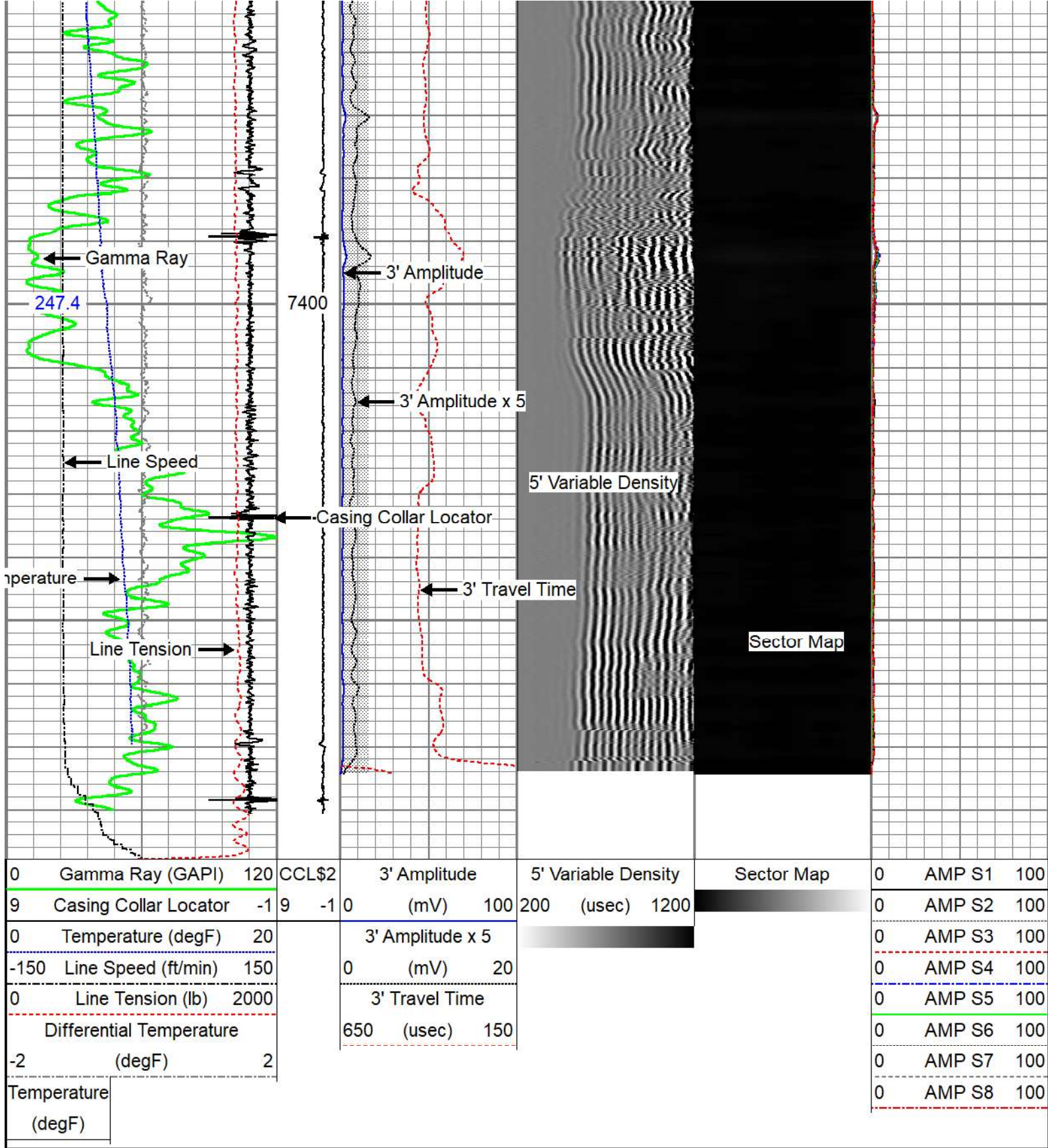












## Repeat Pass

Zero PSI



Database File 05-123-20802\_oxy\_rcbl\_1-31-22.db  
 Dataset Pathname pass1  
 Presentation Format edge\_rbl\_oxy\_vert\_gobo\_45

0	Gamma Ray (GAPI)	120	CCL\$2	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	9 -1	(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		(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		GOBO			0	AMP S7	100
	Temperature (degF)						0	AMP S8	100

