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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 6105.5 FT Adjusted -27 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 a32-721_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	0.695	0.800	71.921	102.401	0.795
CAL	0.642	0.642				
5'	-0.001	0.599	0.800	71.921	118.673	0.886
SUM						
S1	0.001	0.667	0.000	100.000	149.995	-0.083
S2	0.000	0.662	0.000	100.000	151.100	-0.034
S3	0.000	0.683	0.000	100.000	146.398	-0.032
S4	0.001	0.715	0.000	100.000	140.063	-0.075
S5	0.001	0.727	0.000	100.000	137.813	-0.130
S6	0.001	0.717	0.000	100.000	139.527	-0.103
S7	0.000	0.727	0.000	100.000	137.496	-0.027
S8	0.001	0.706	0.000	100.000	141.887	-0.106

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	

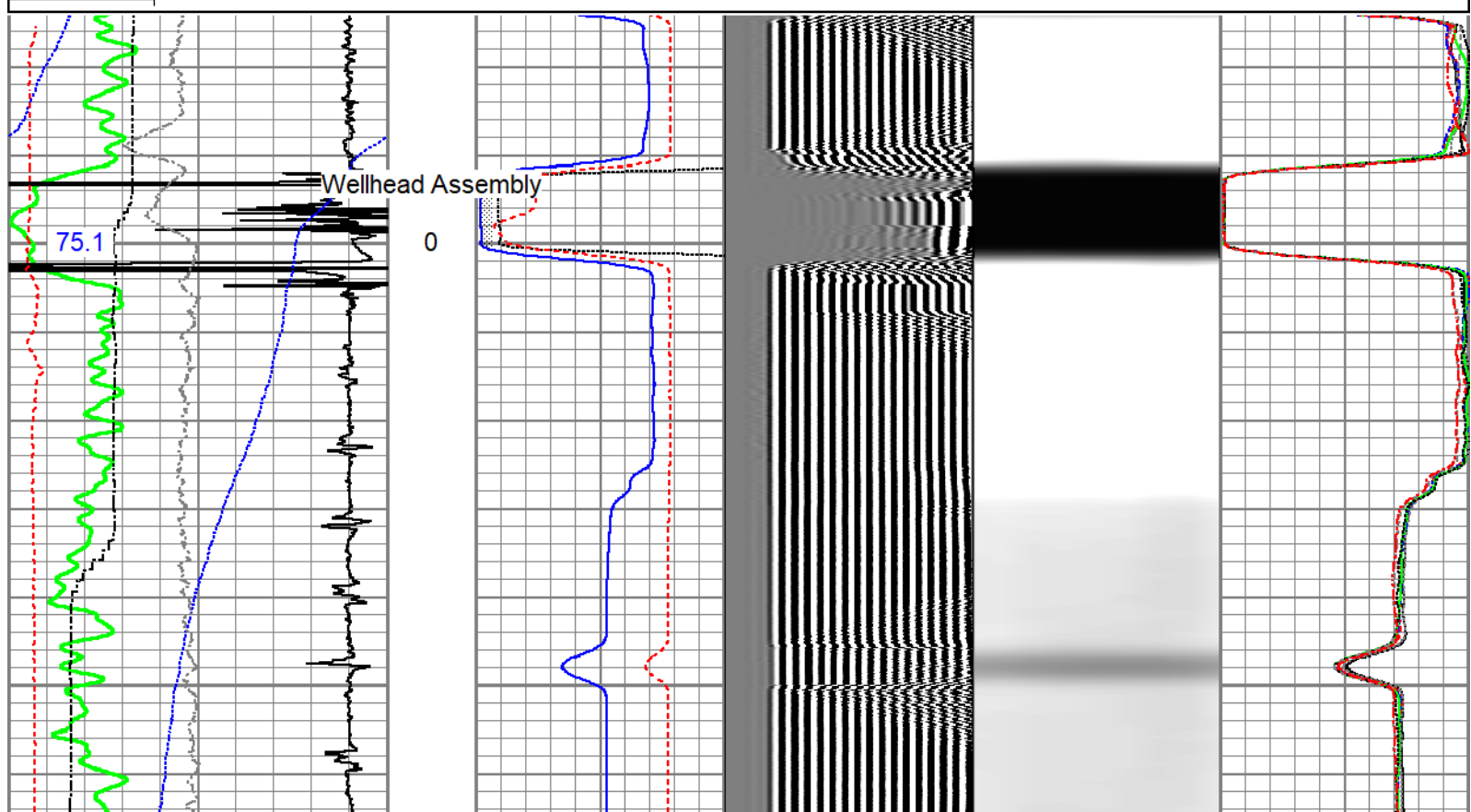


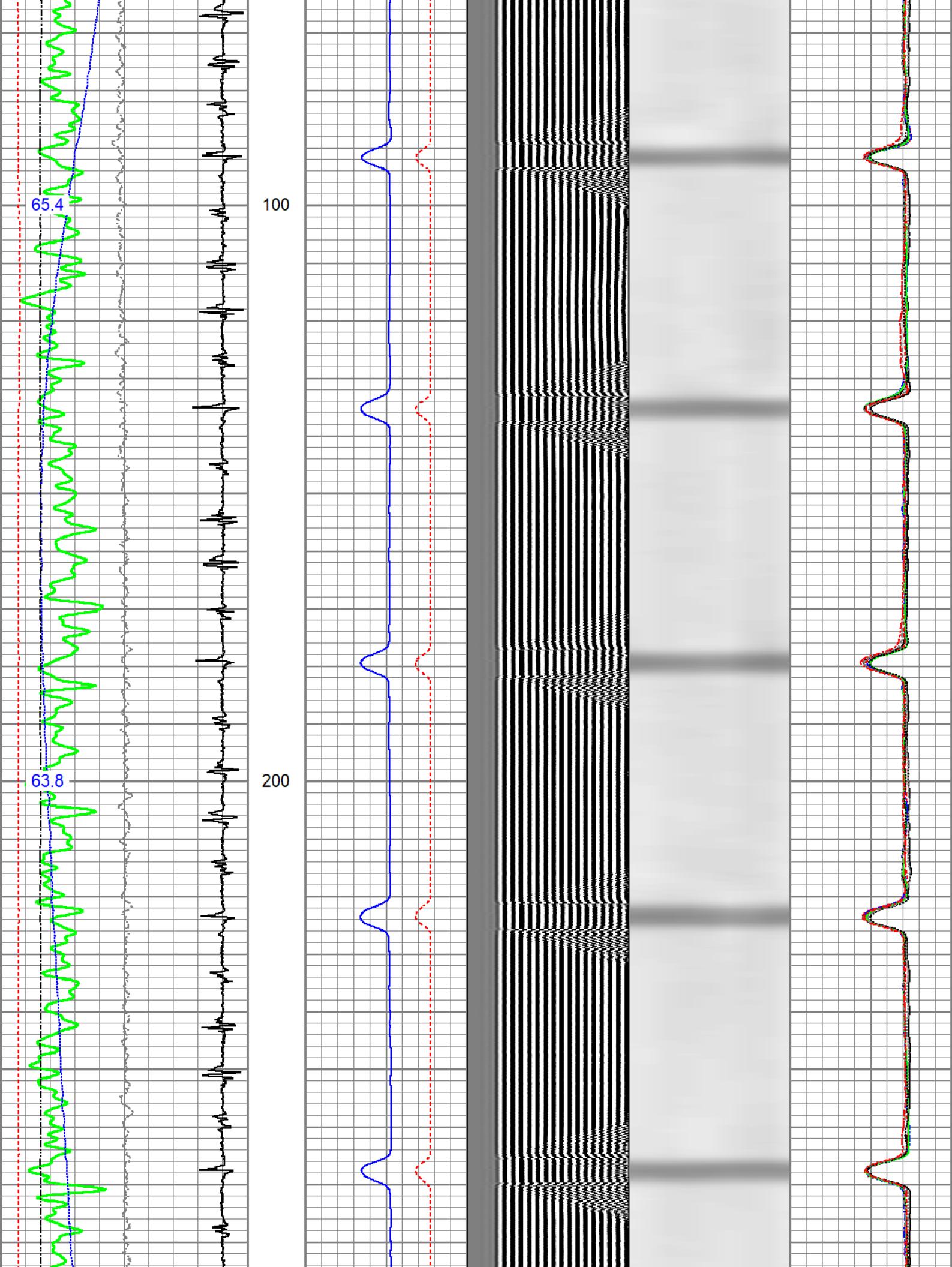
Main Pass

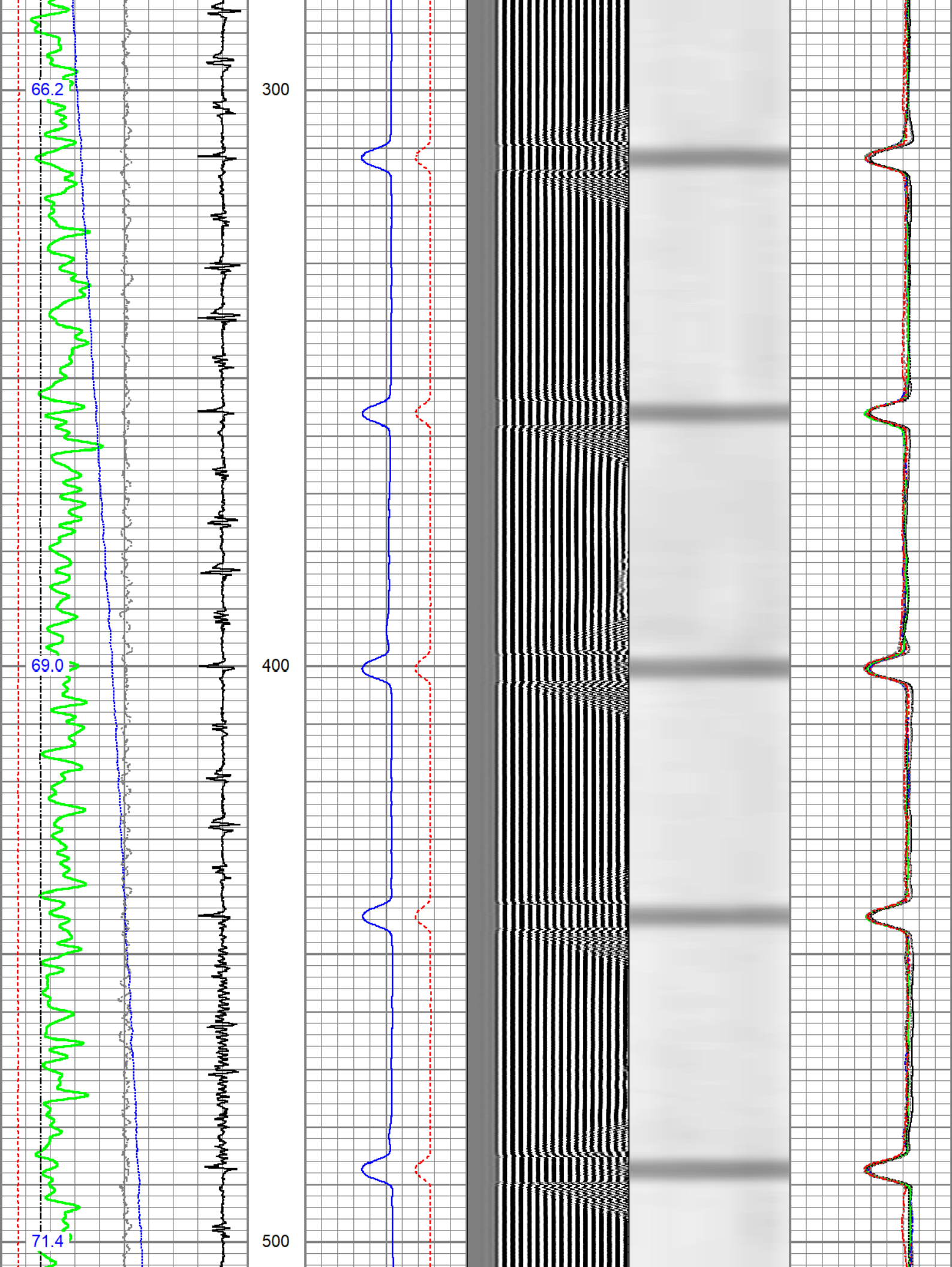
Recorded with 2500 PSI Surface Induced Pressure

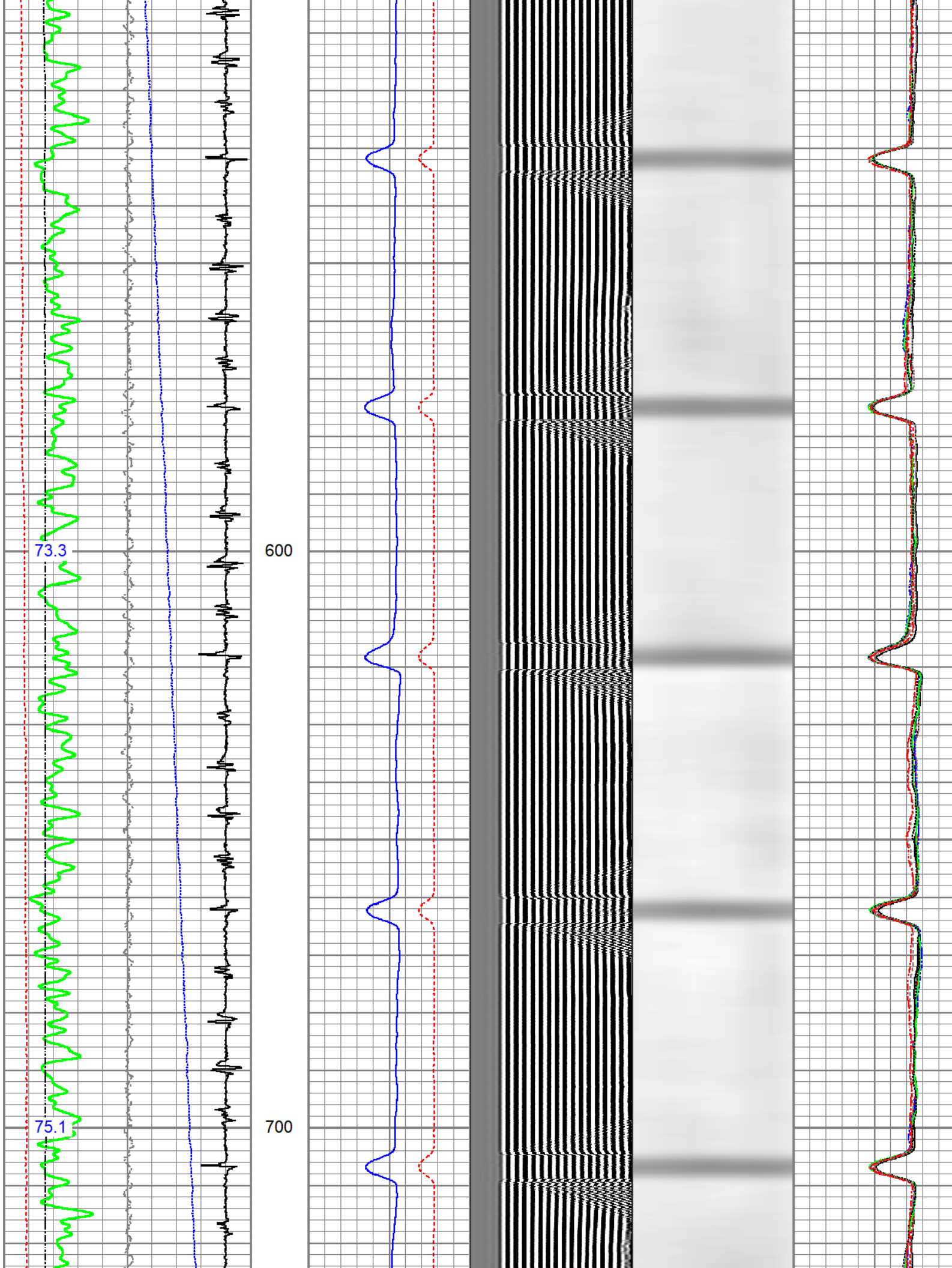
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Presentation Format	edge_rbl_noble
Dataset Creation	Thu Oct 07 11:47:47 2021
Charted by	Depth in Feet scaled 1:240

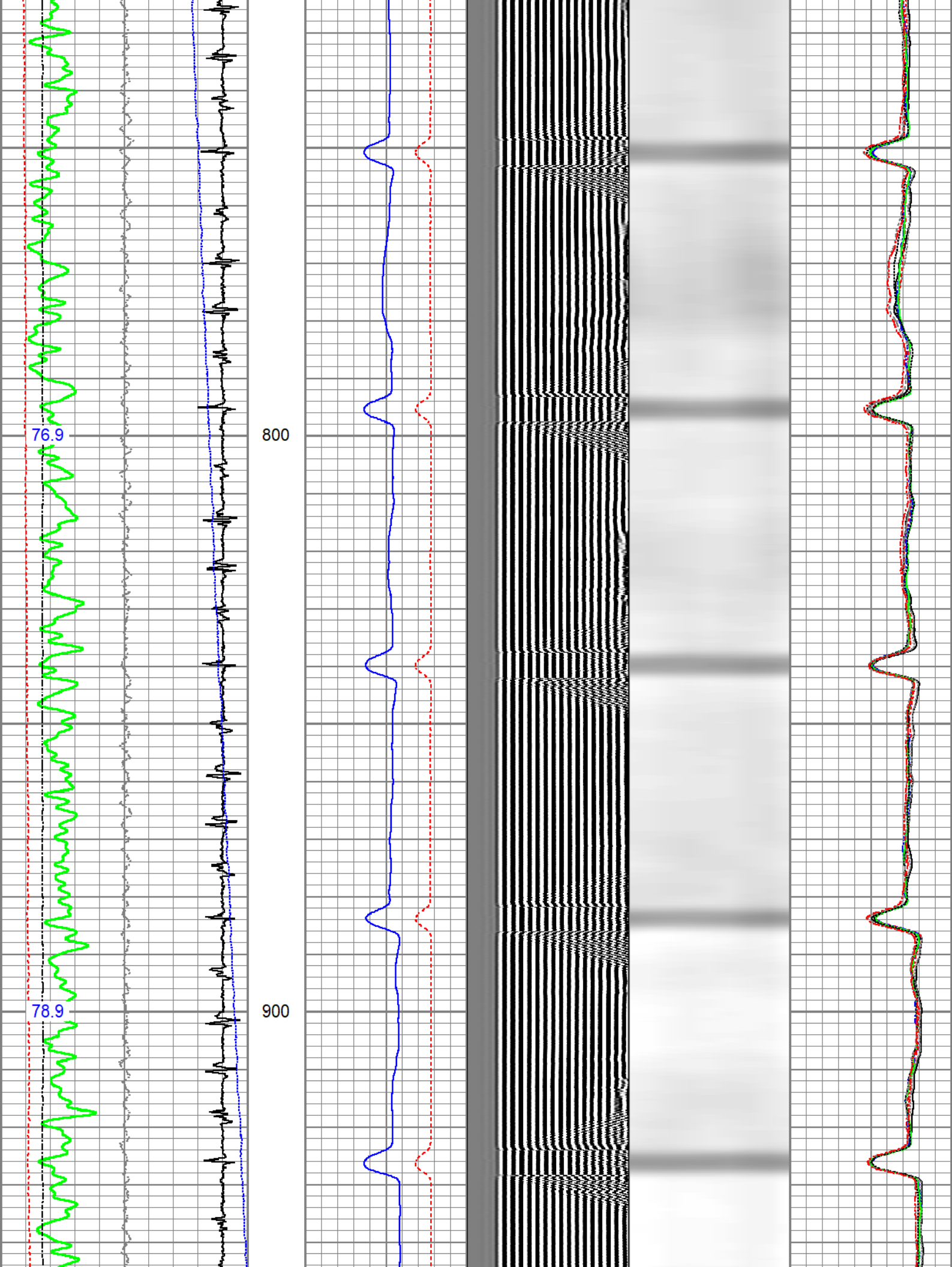
0	Gamma Ray (GAPI)	120	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
4.5	CCL\$2	1.1	0 (mV)	200 (usec)	1200	0	AMP S2	100
0	Temperature (degF)	20	3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150	0 (mV)	20		0	AMP S4	100
0	Line Tension (lb)	2000	3' Travel Time			0	AMP S5	100
	Differential Temperature		650 (usec)	150		0	AMP S6	100
-2	(degF)	2				0	AMP S7	100
TEMP						0	AMP S8	100
(degF)								

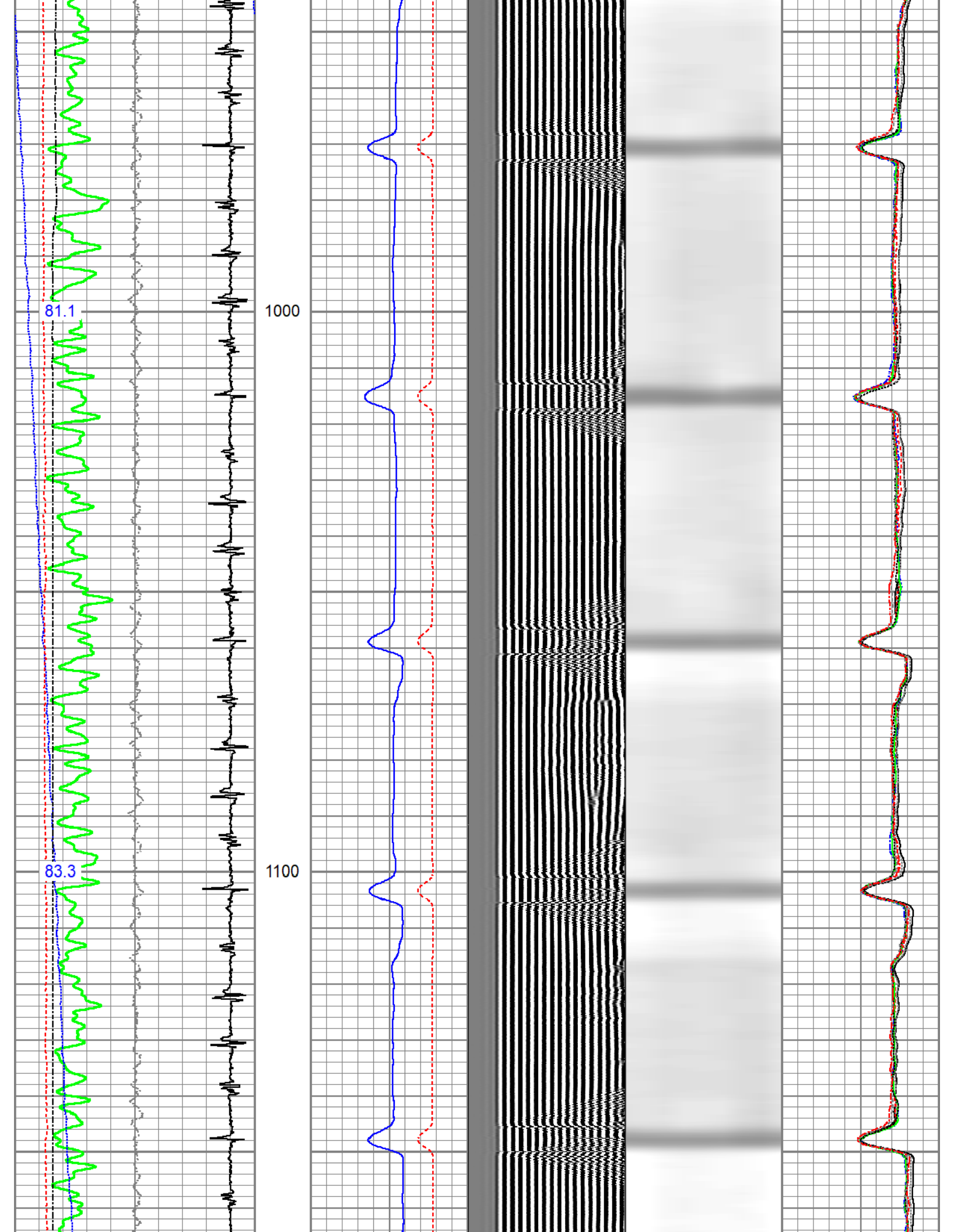


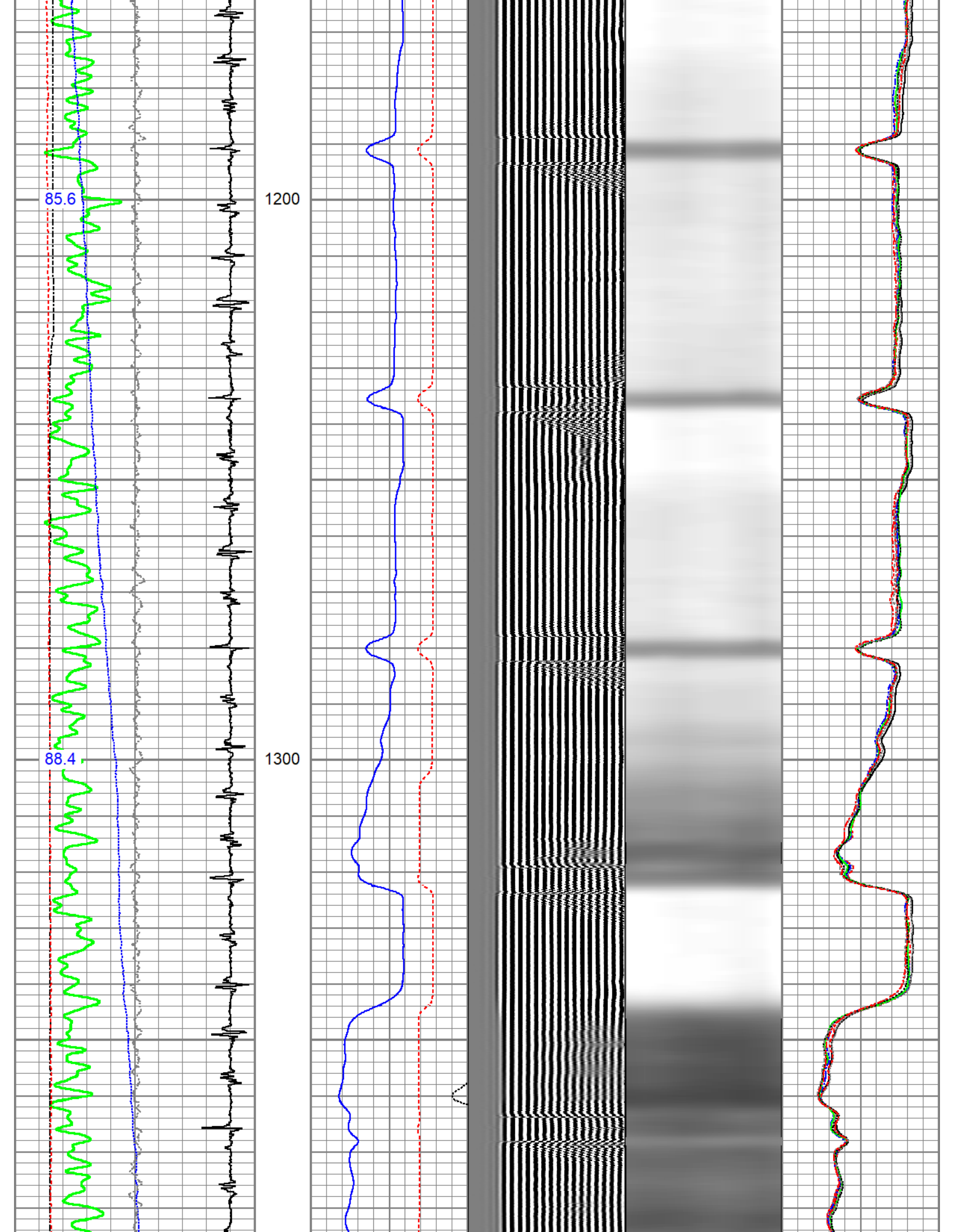


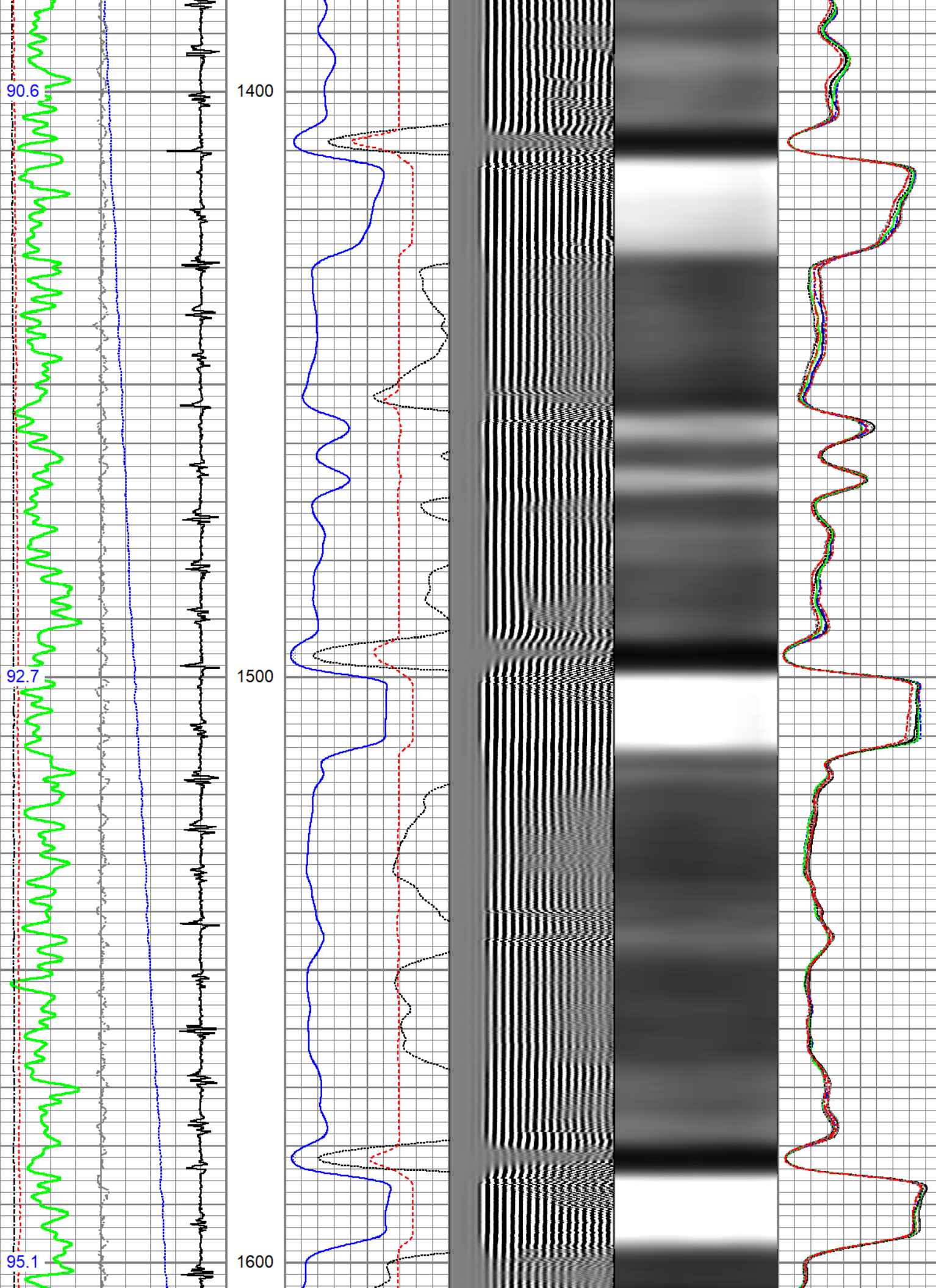


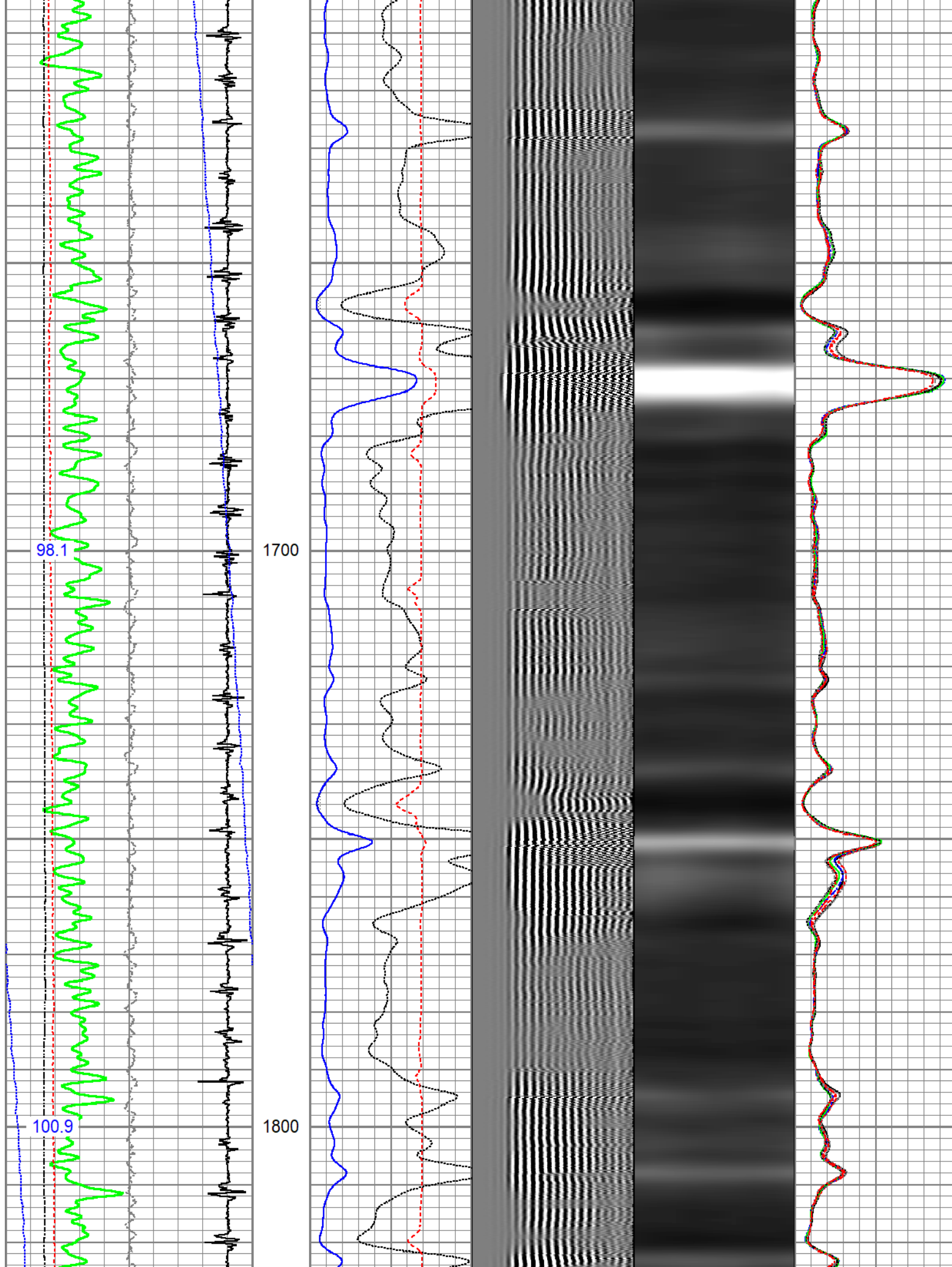


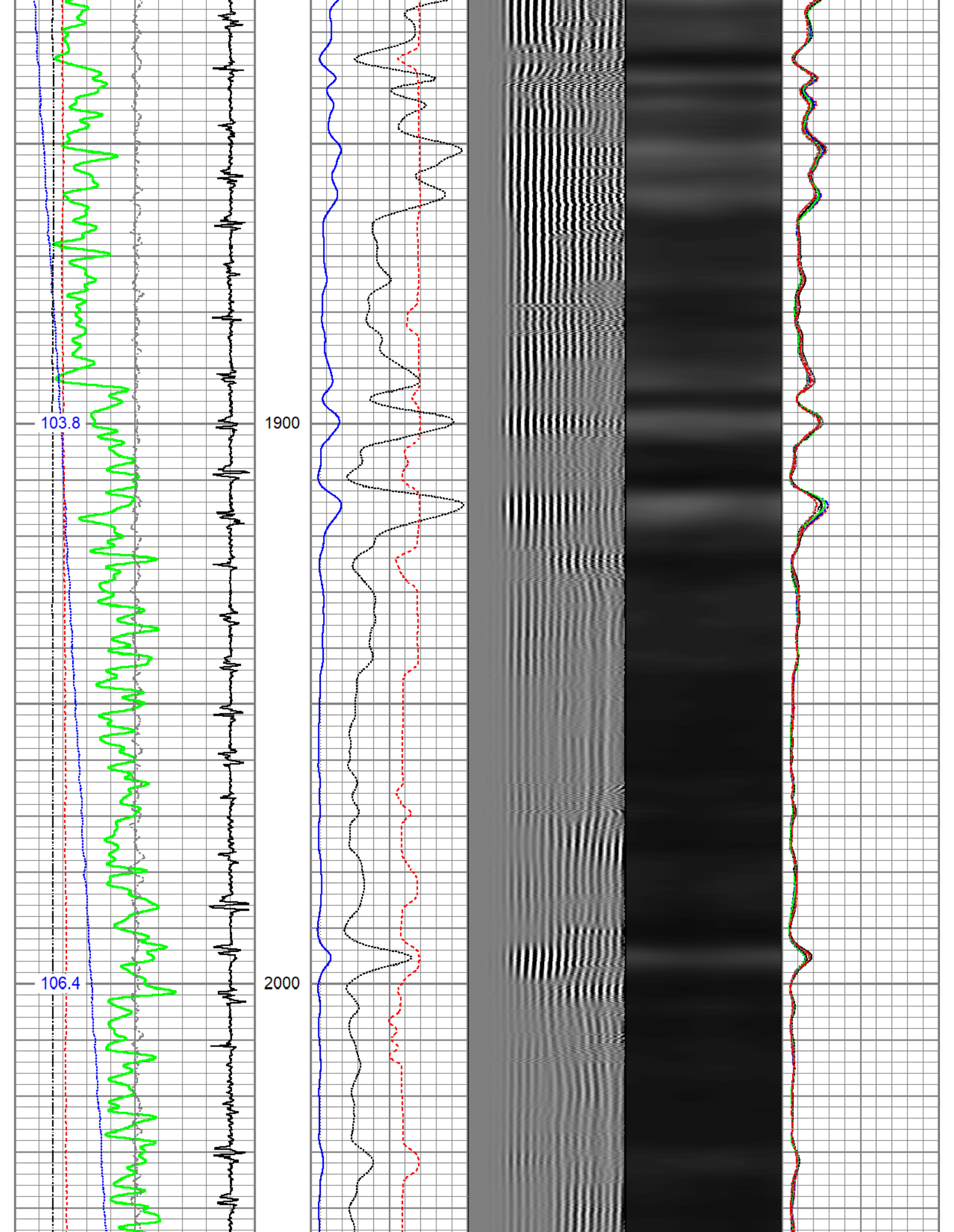


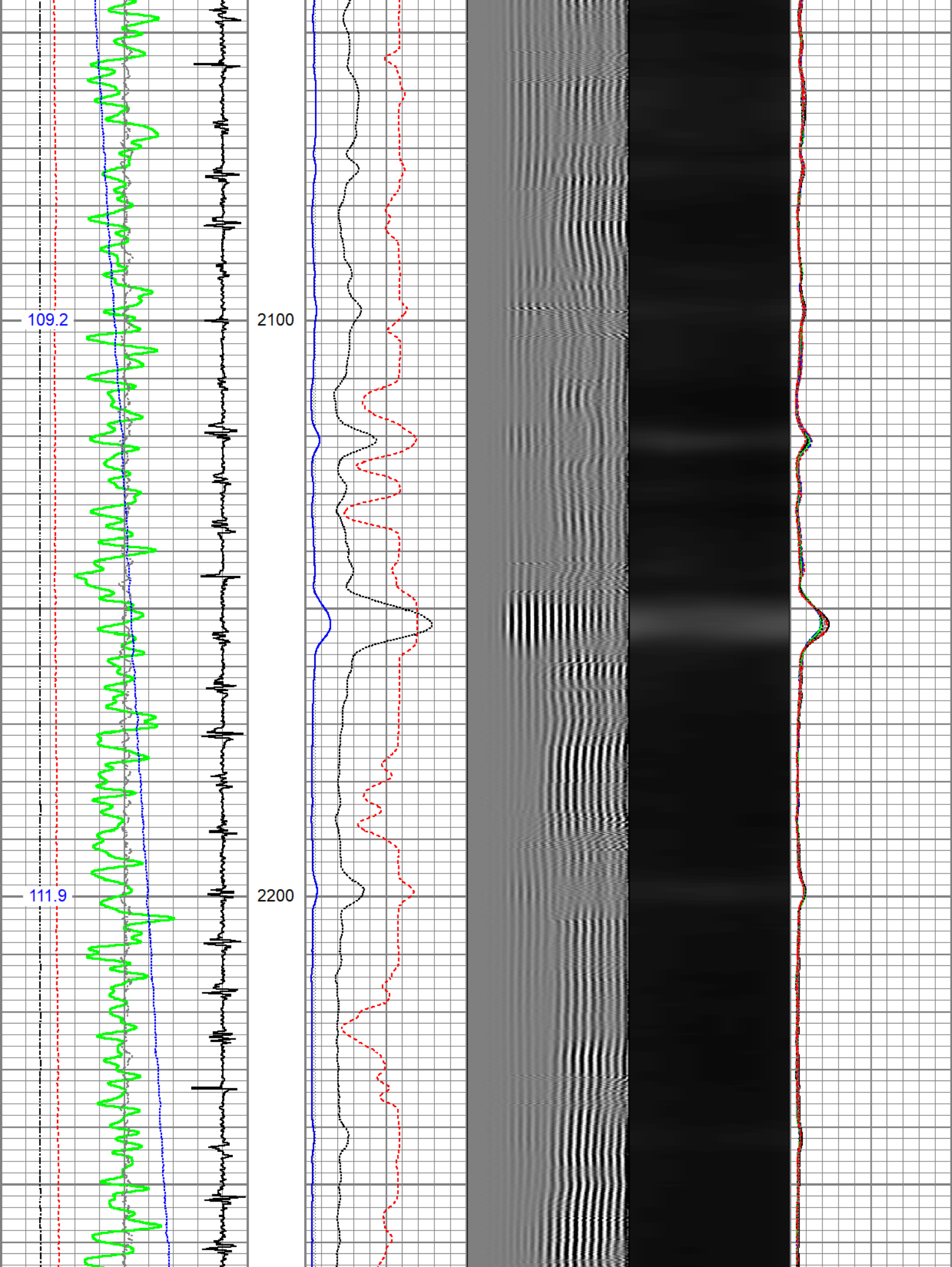


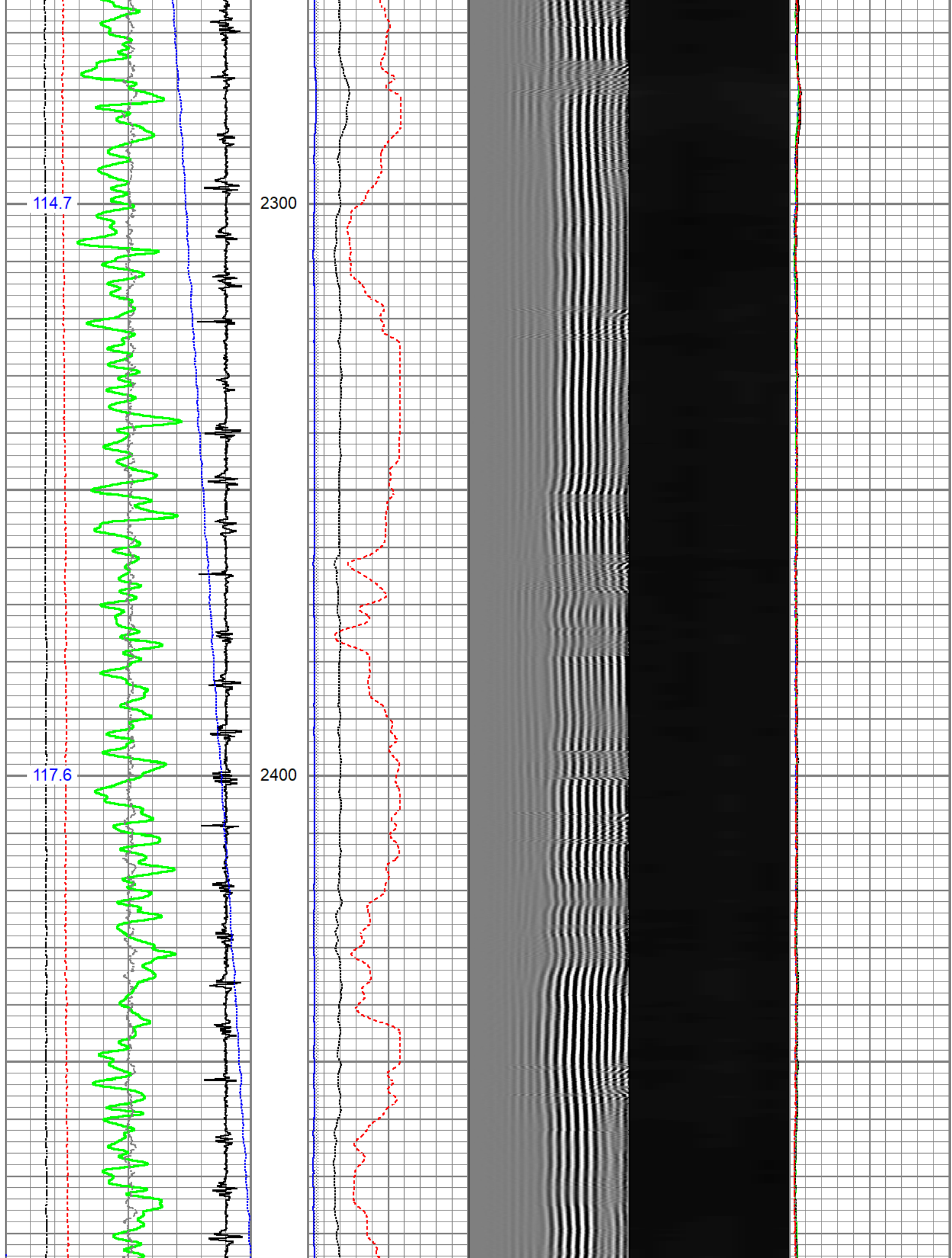


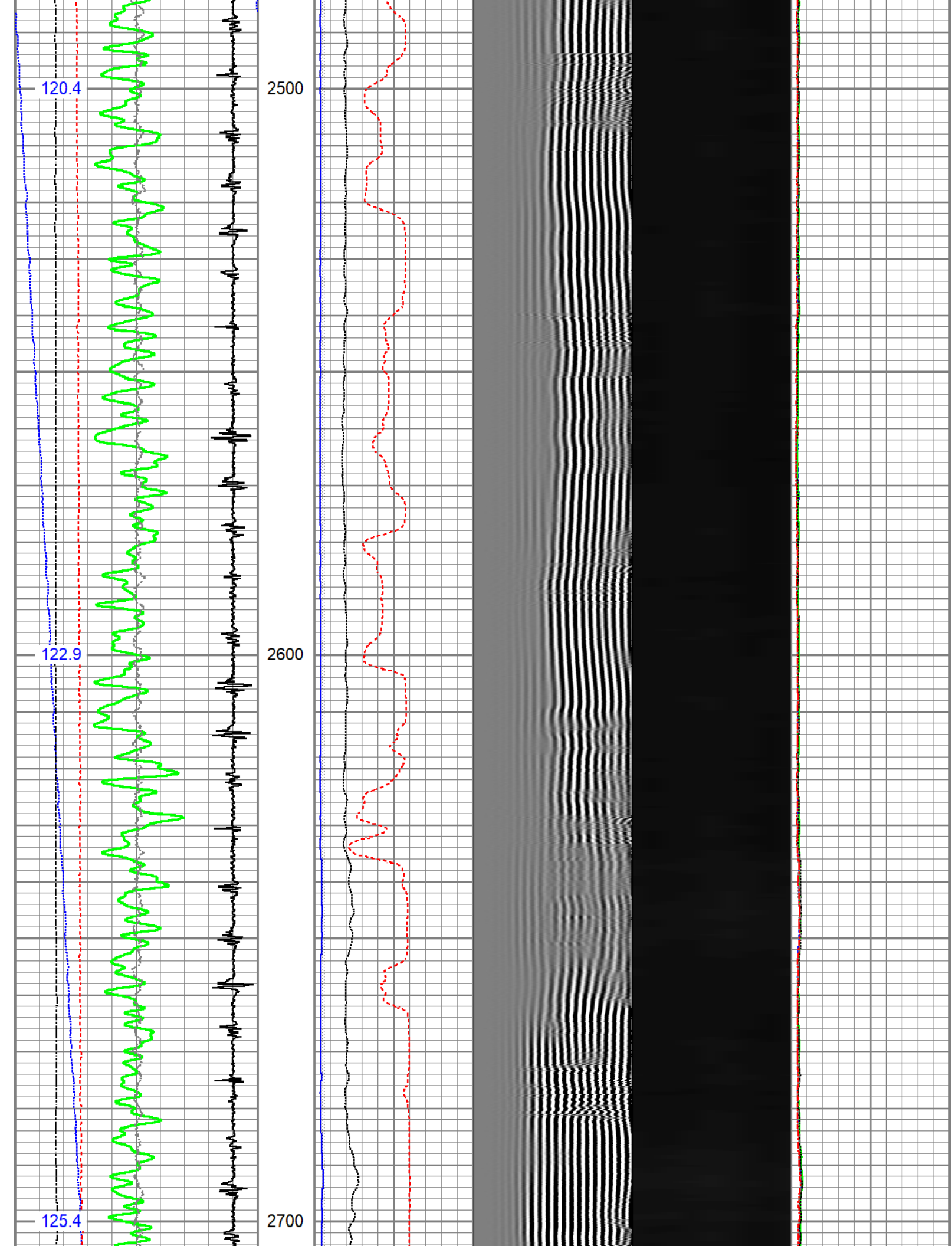


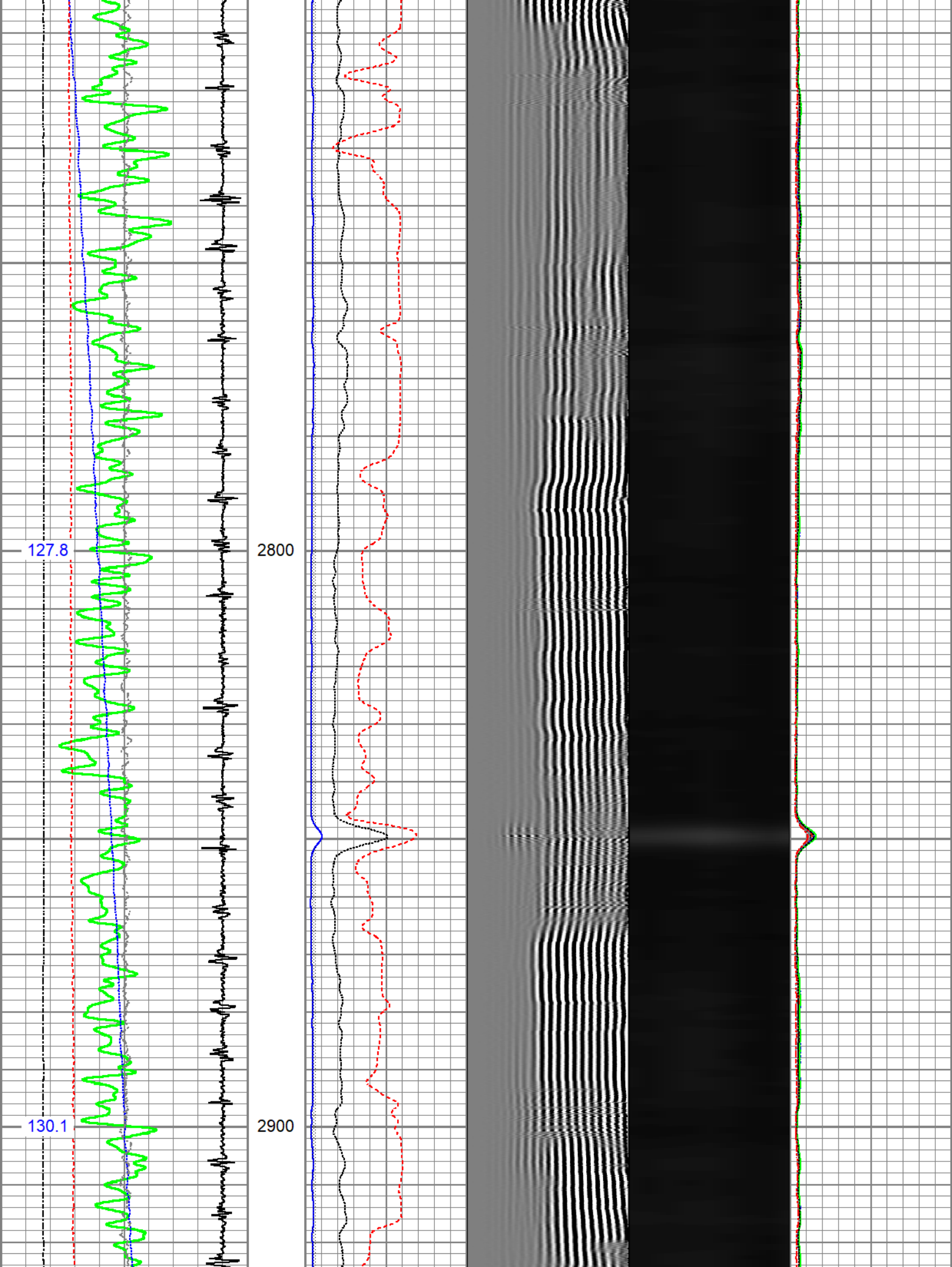


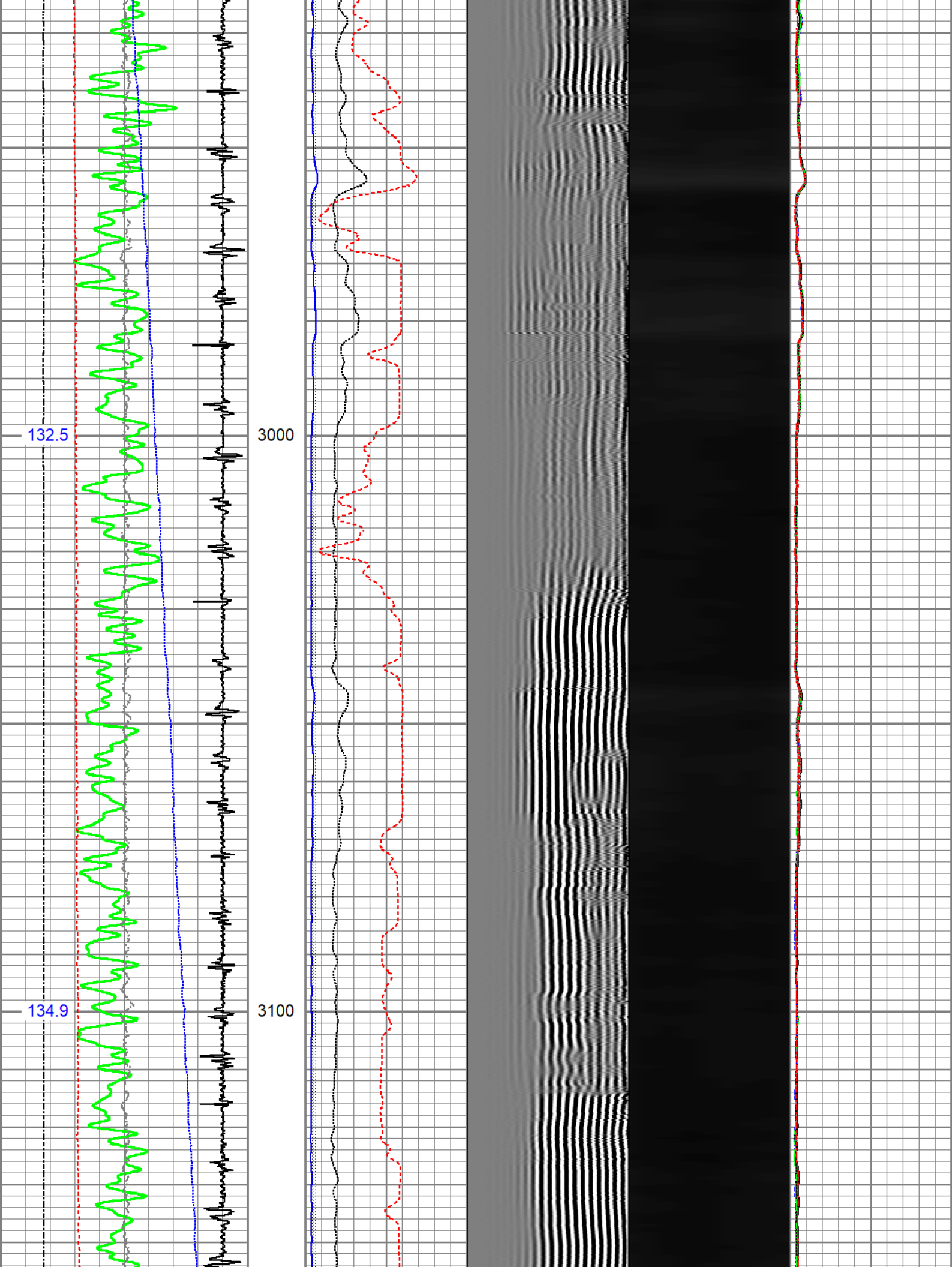


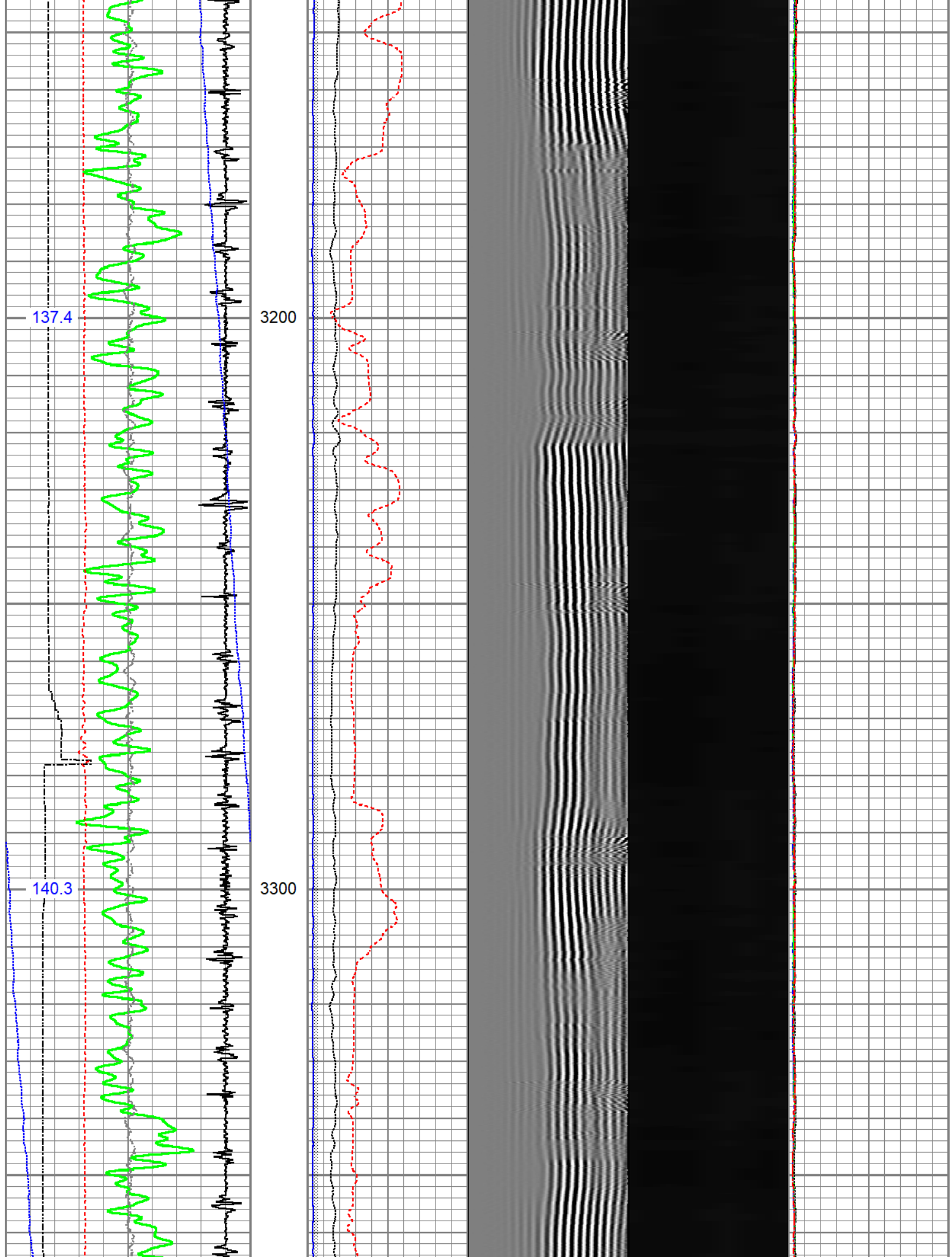


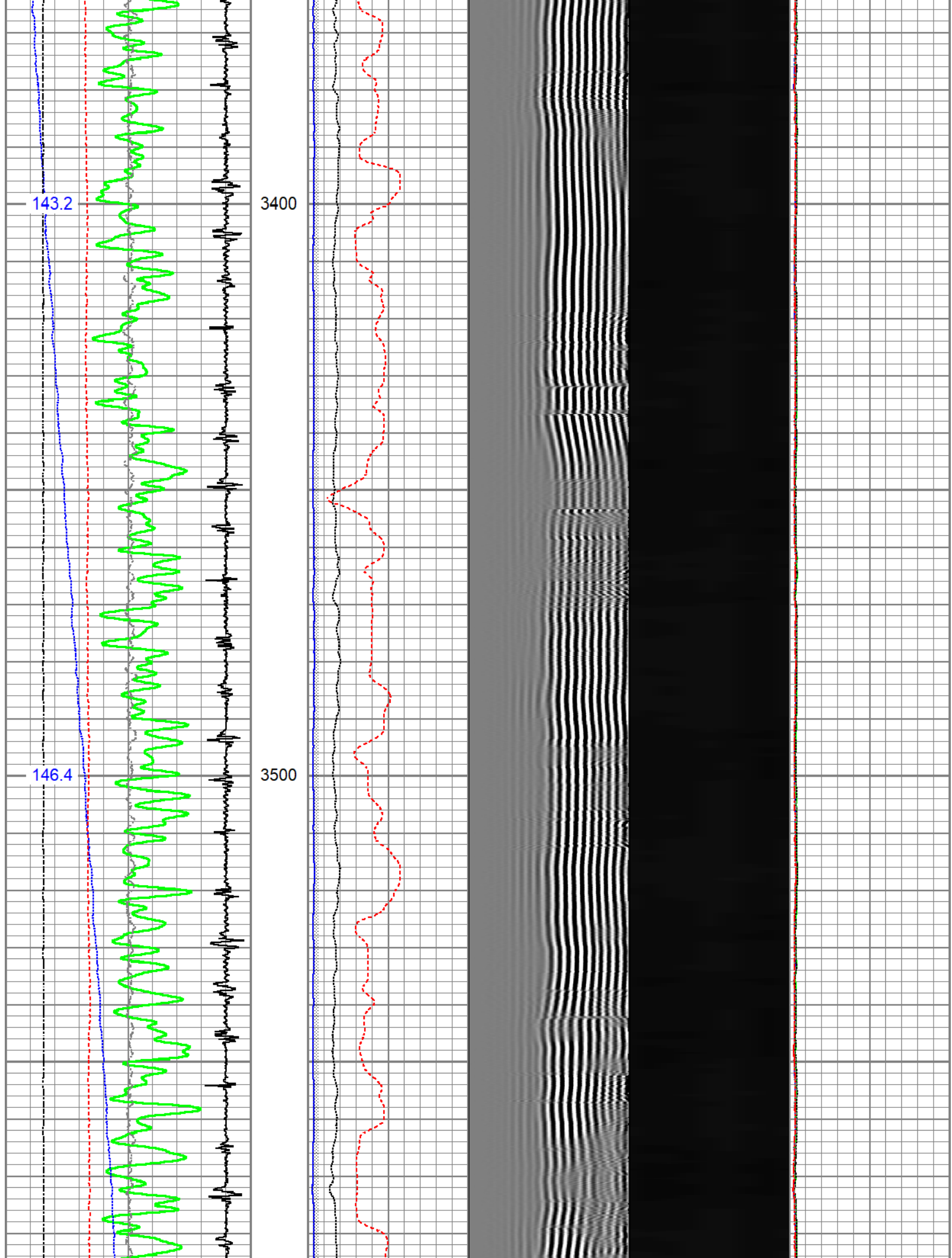


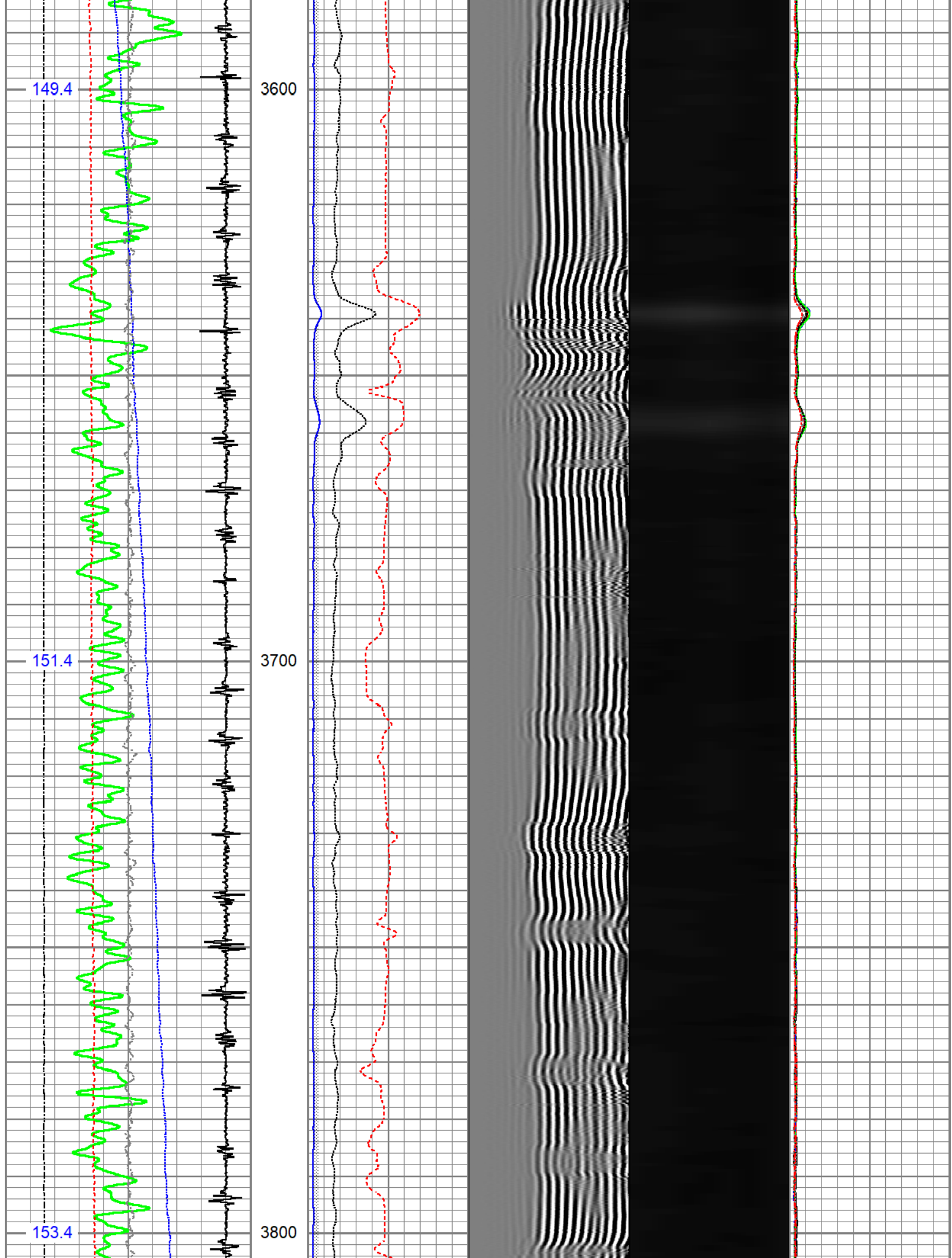


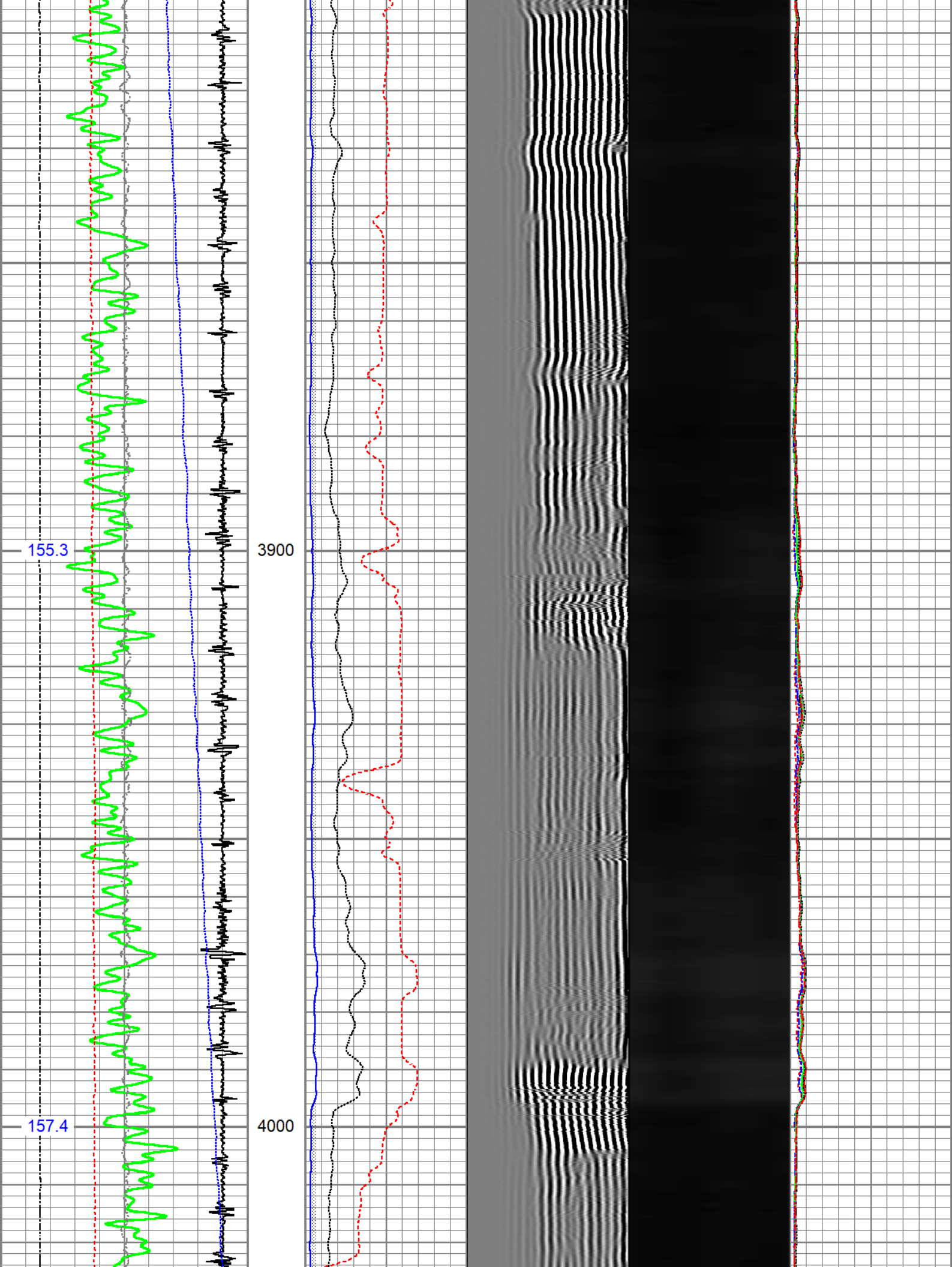


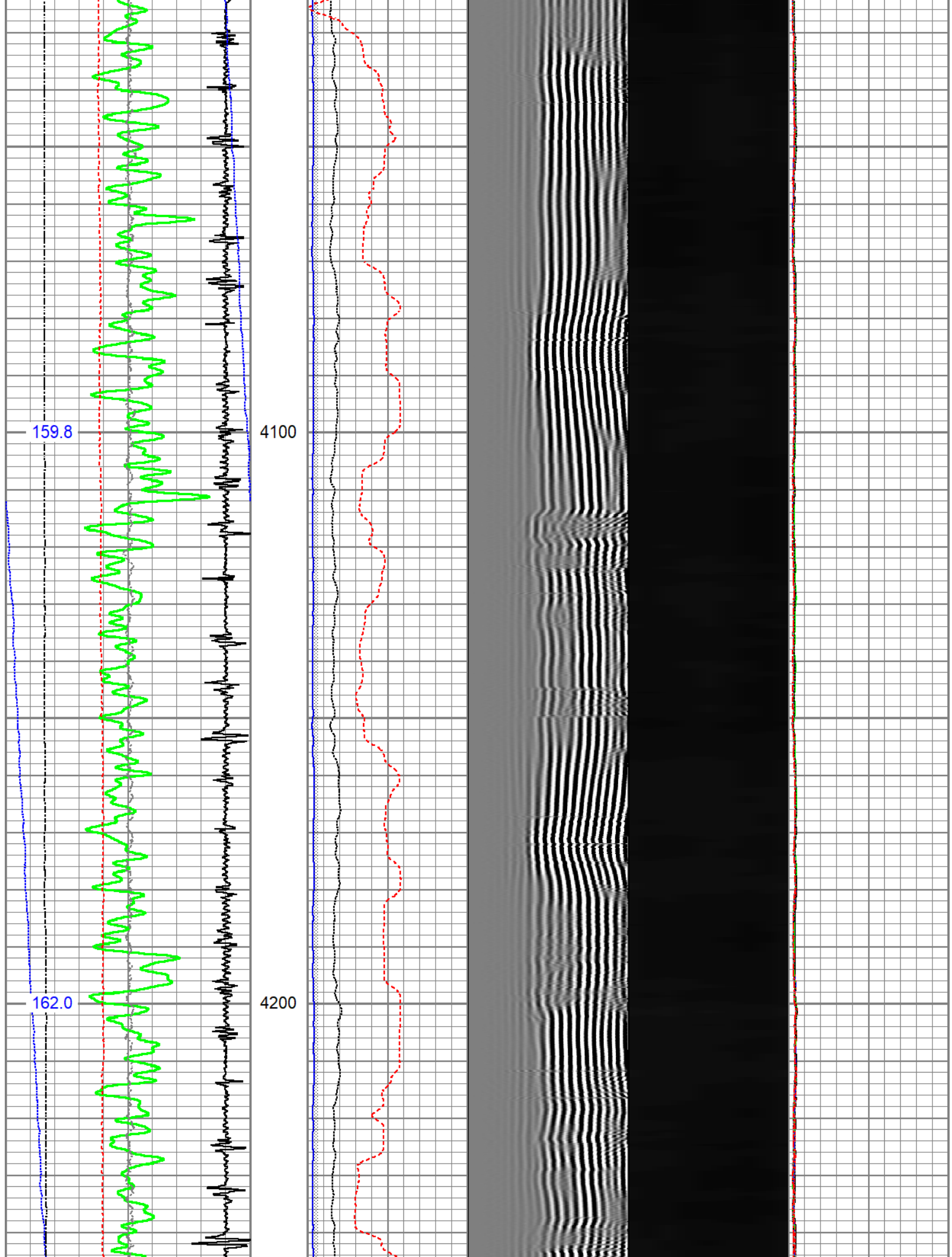


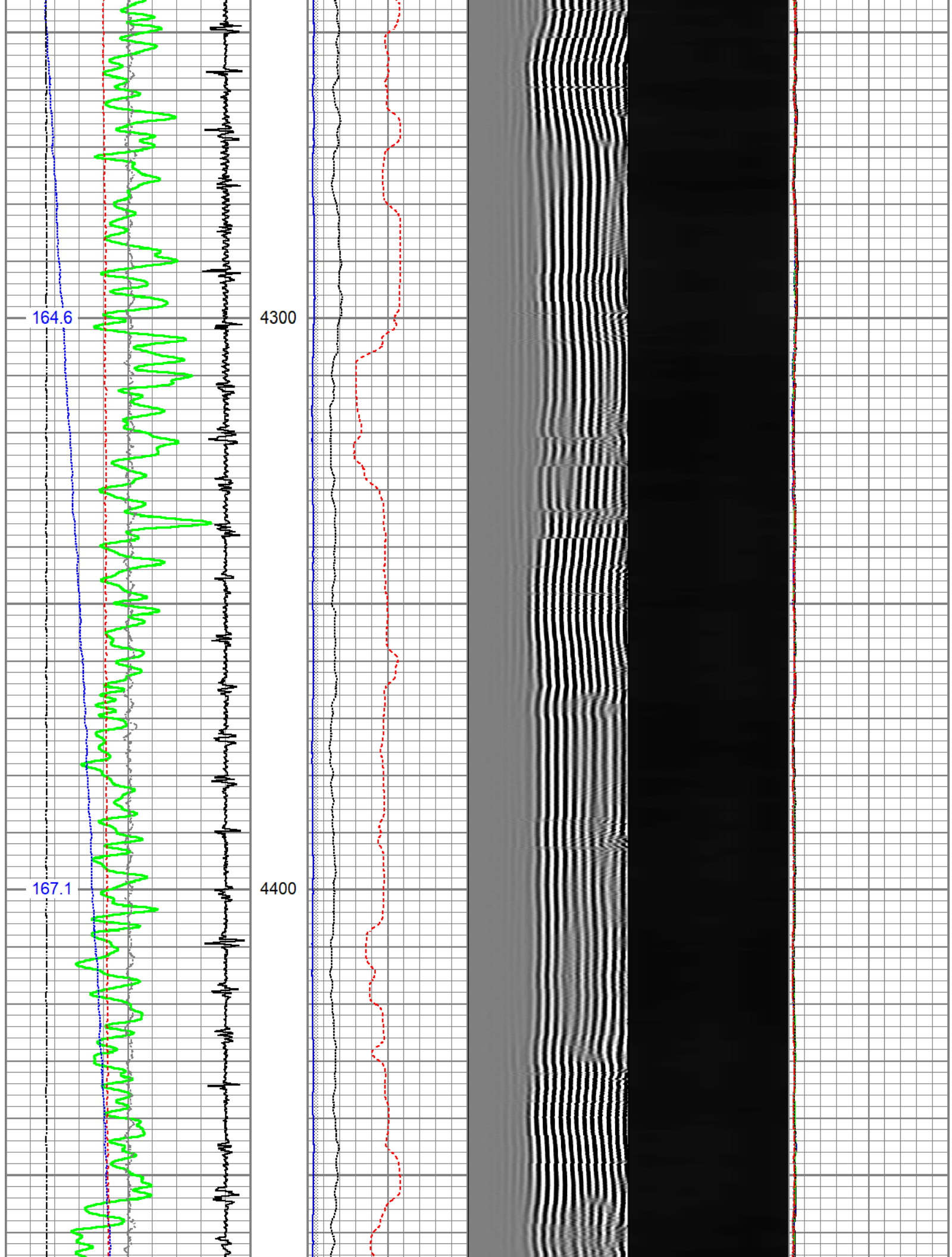


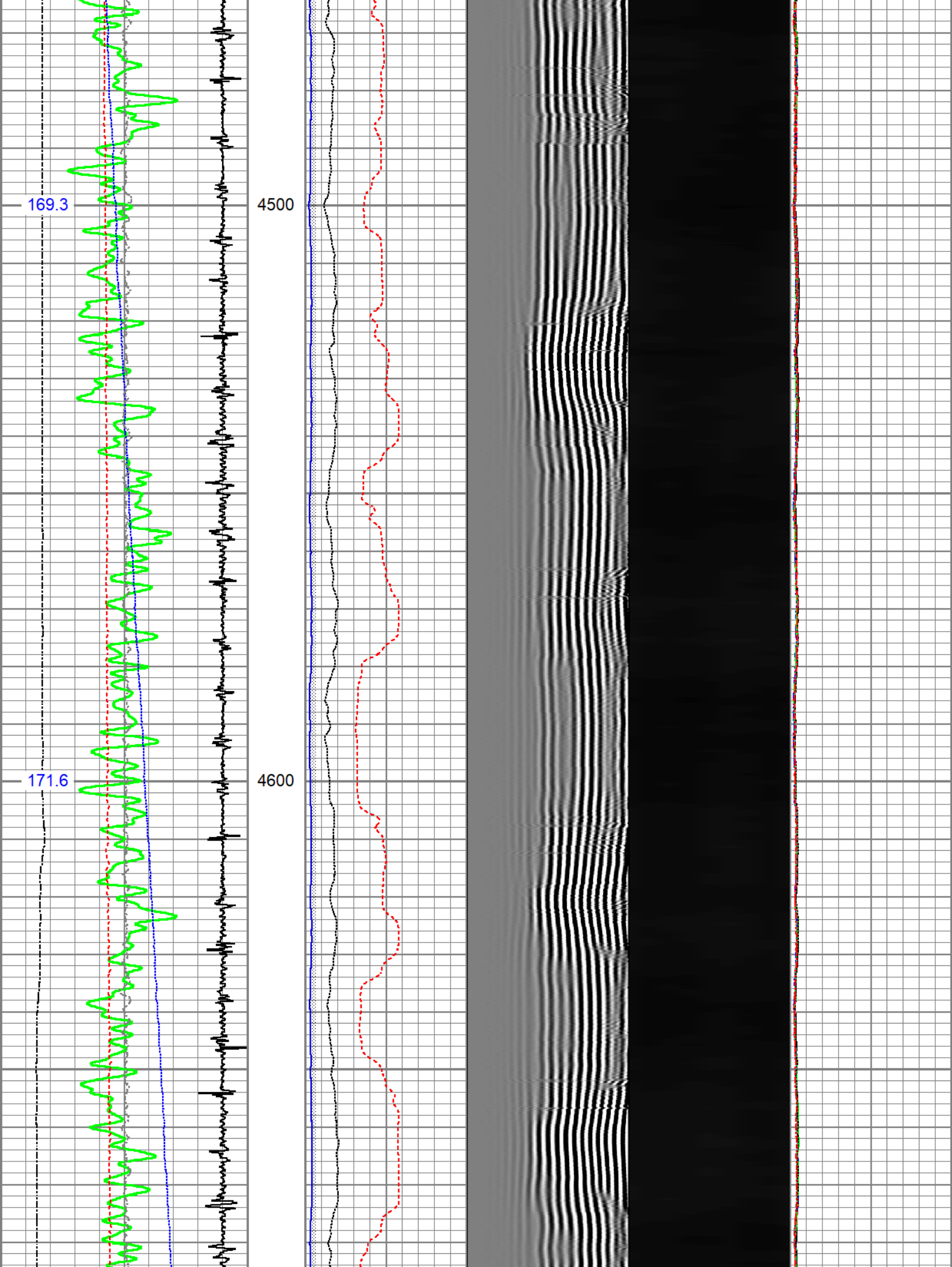


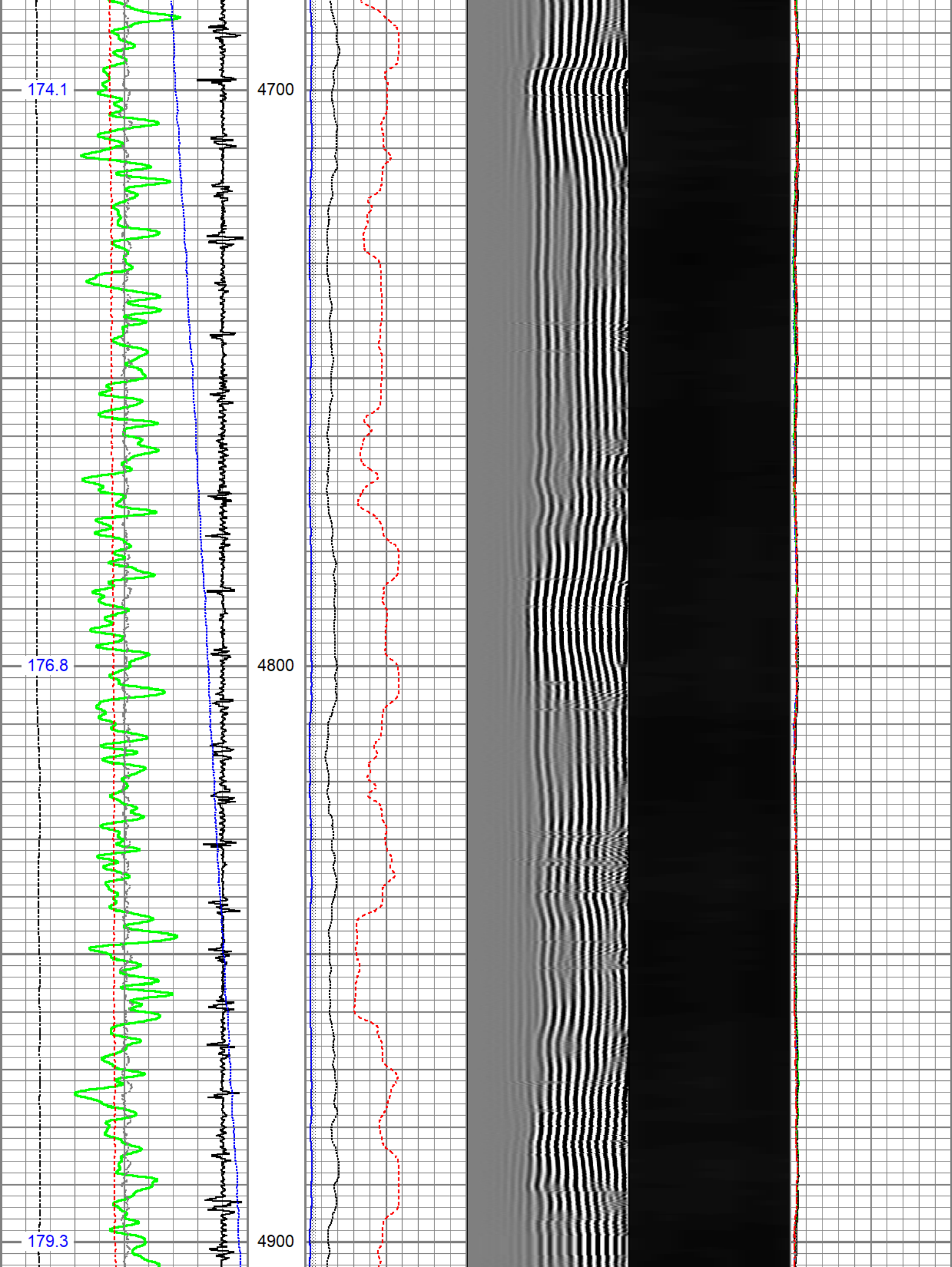


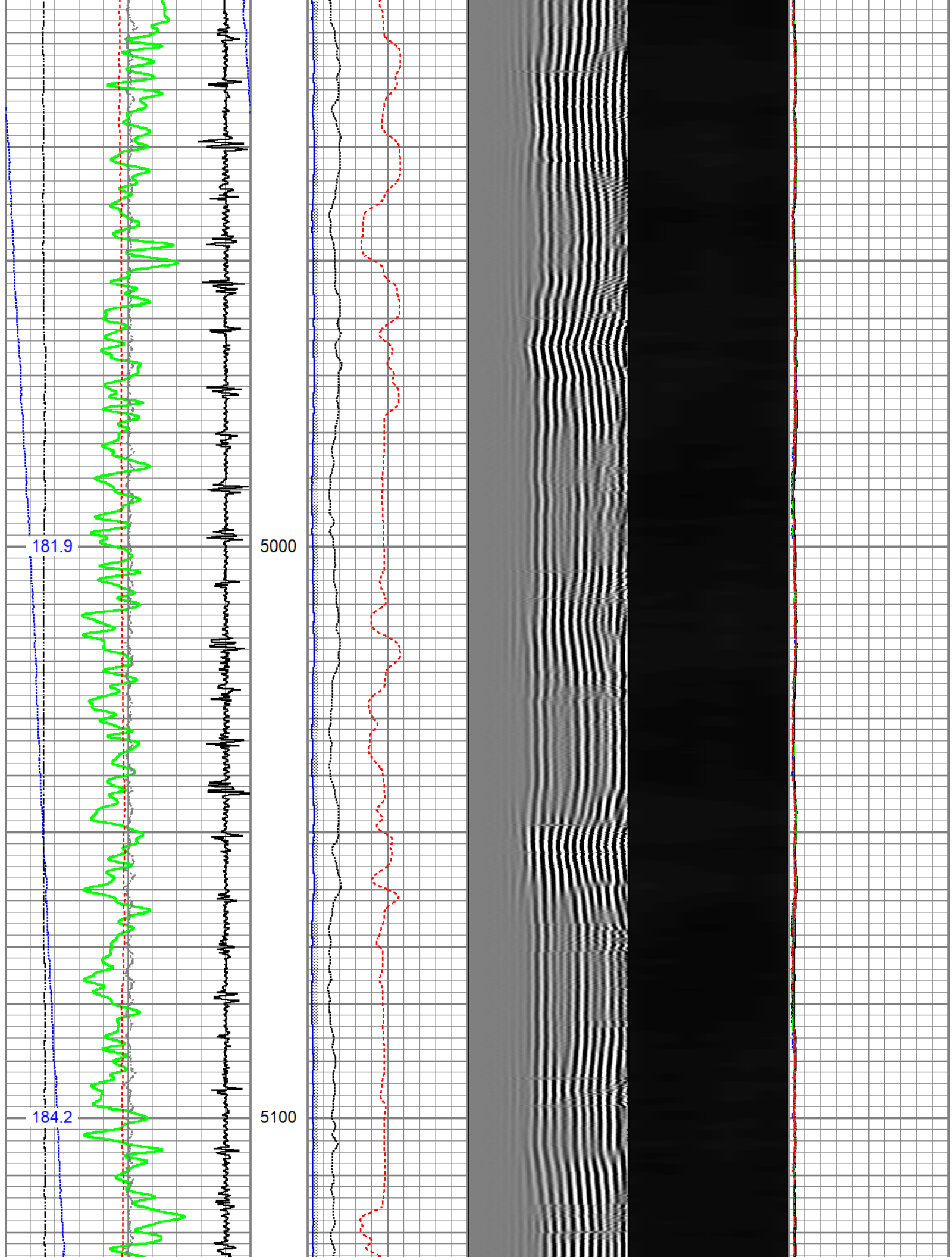


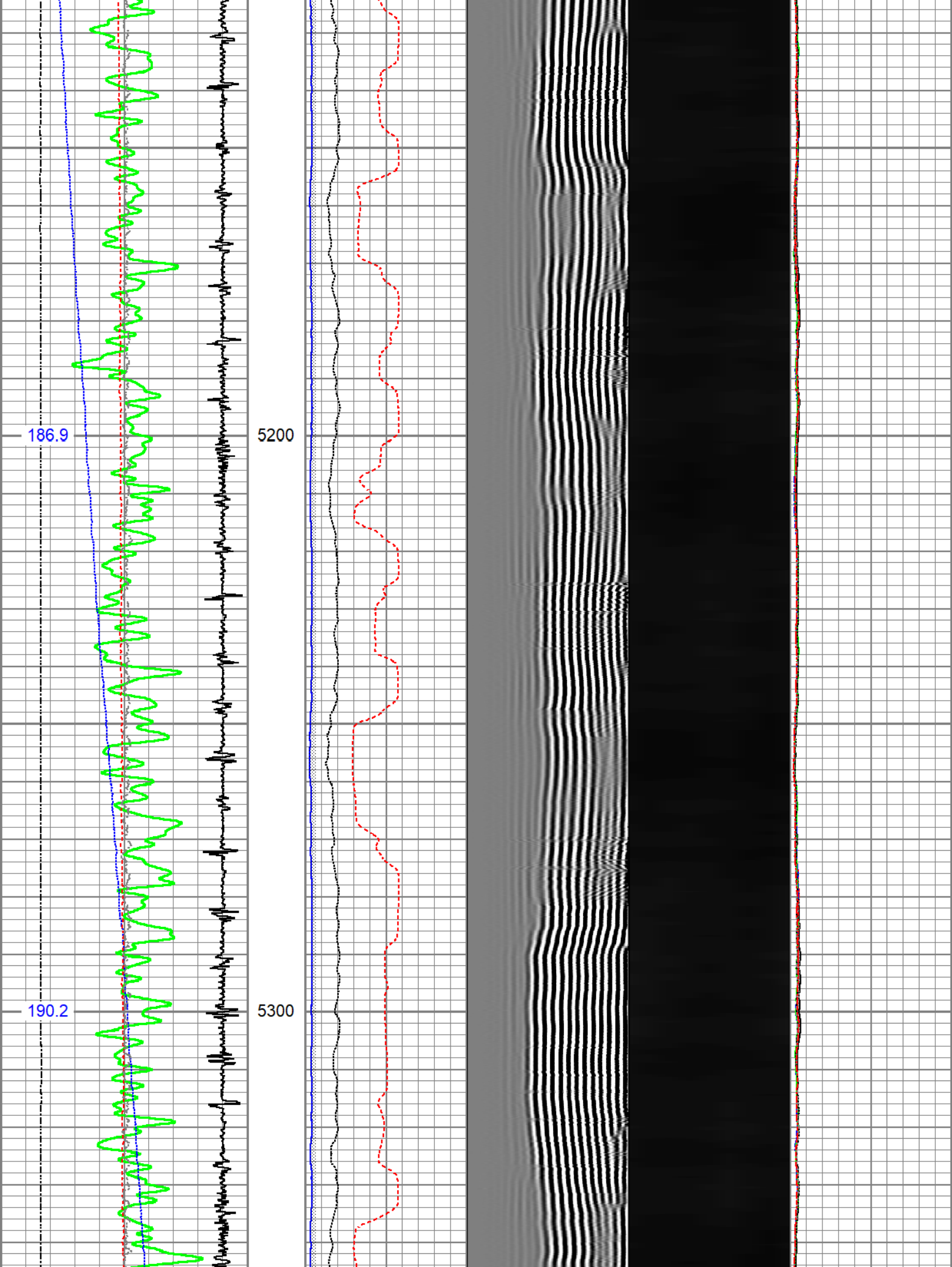


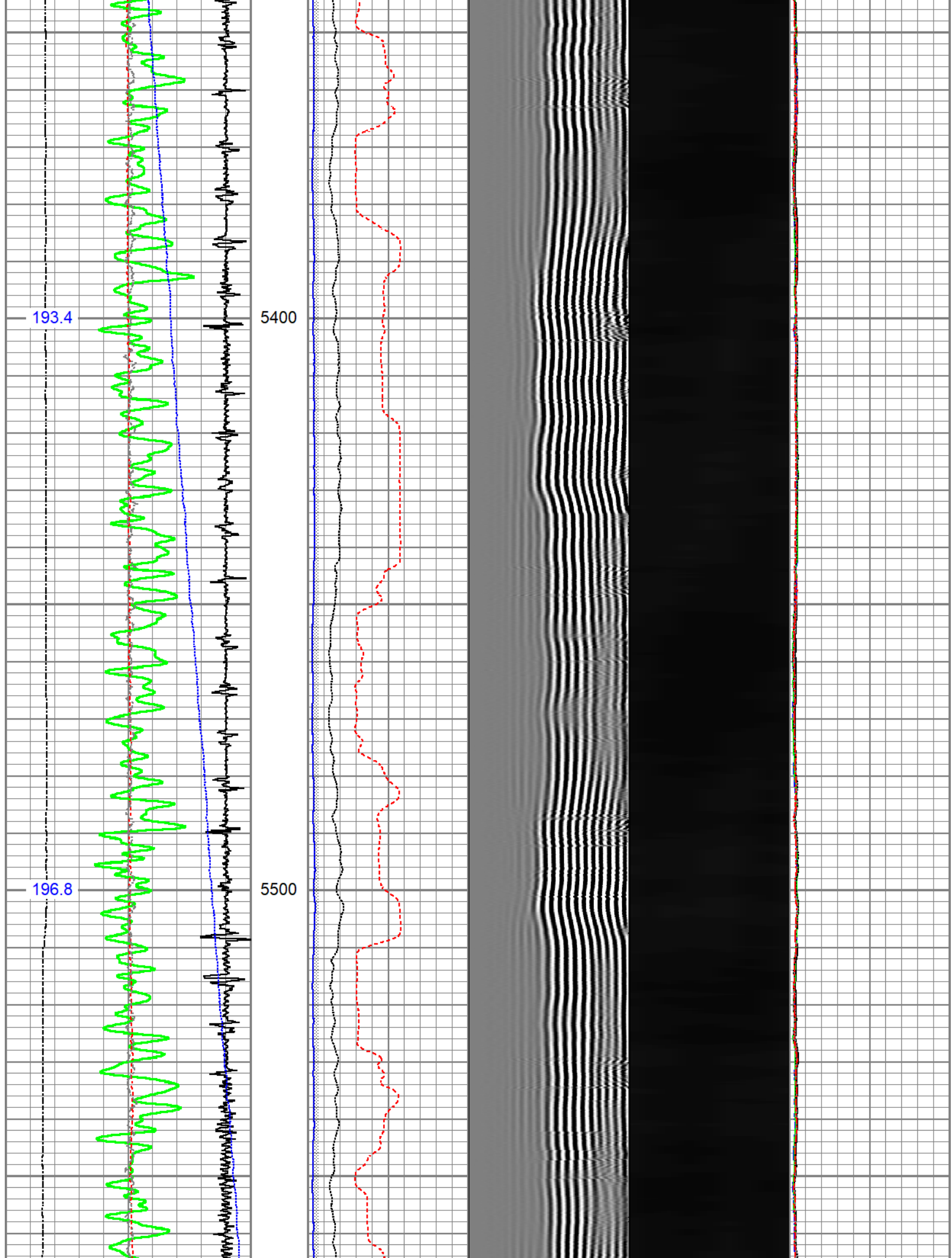


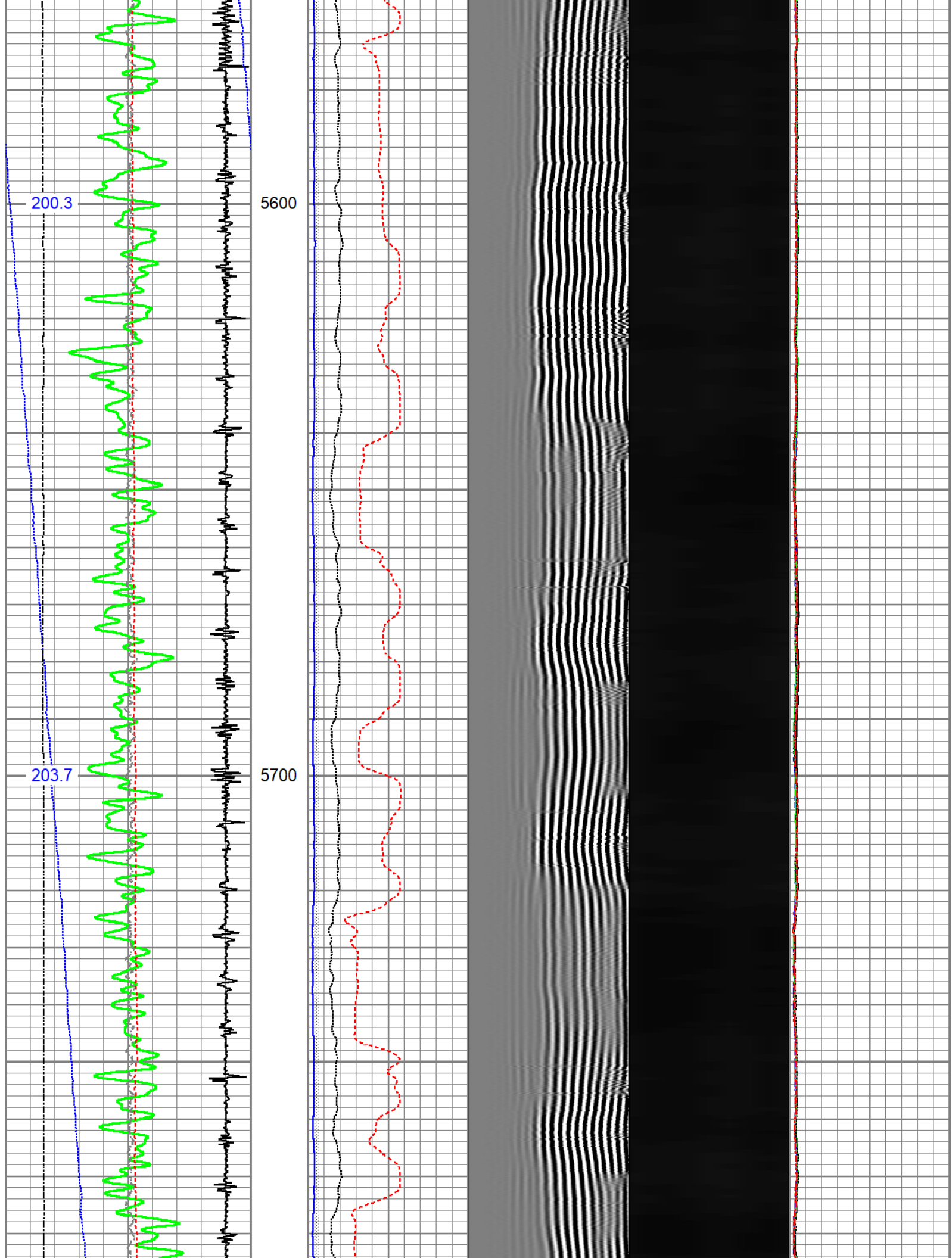


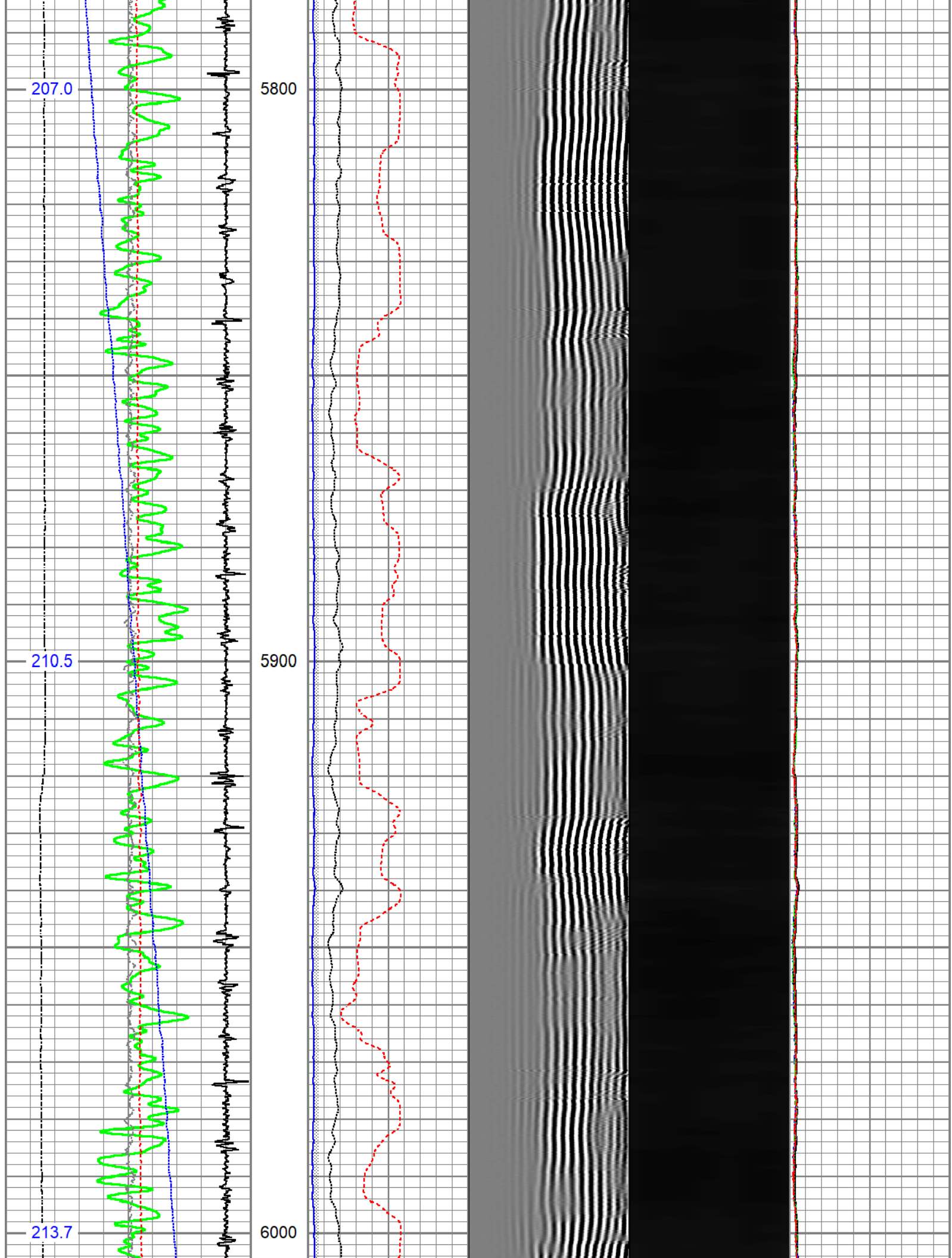


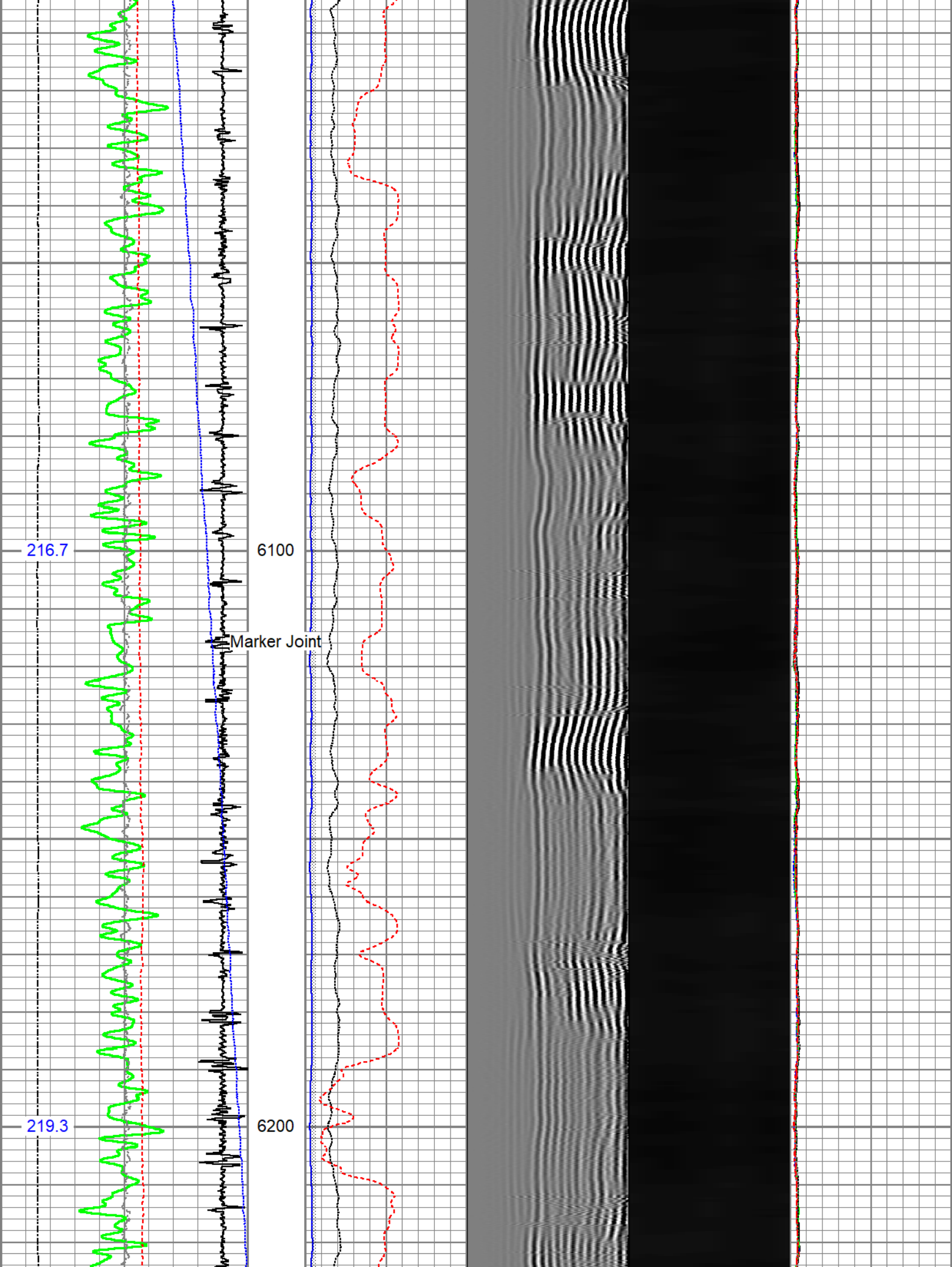


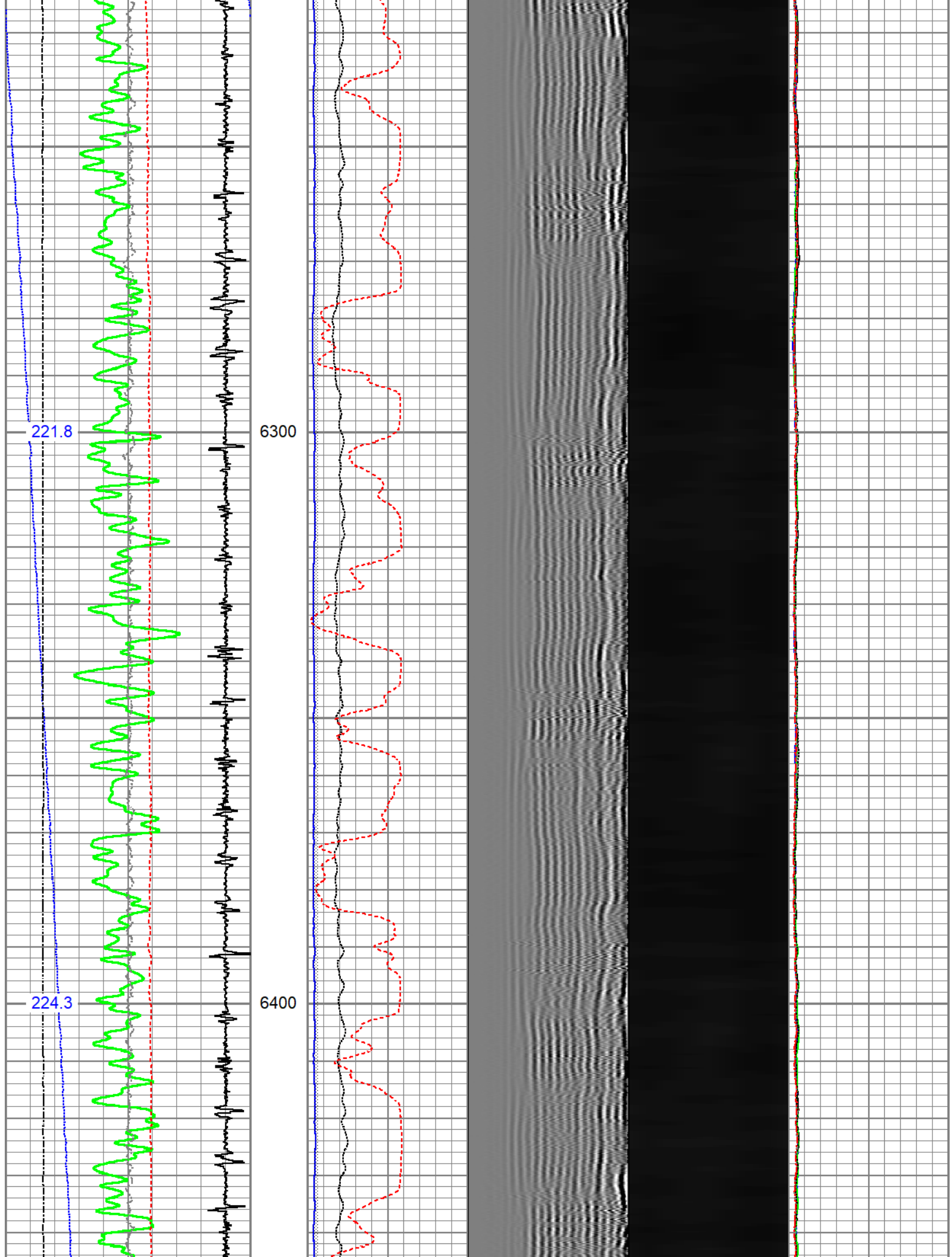










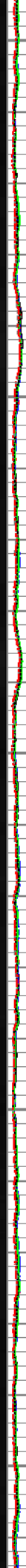
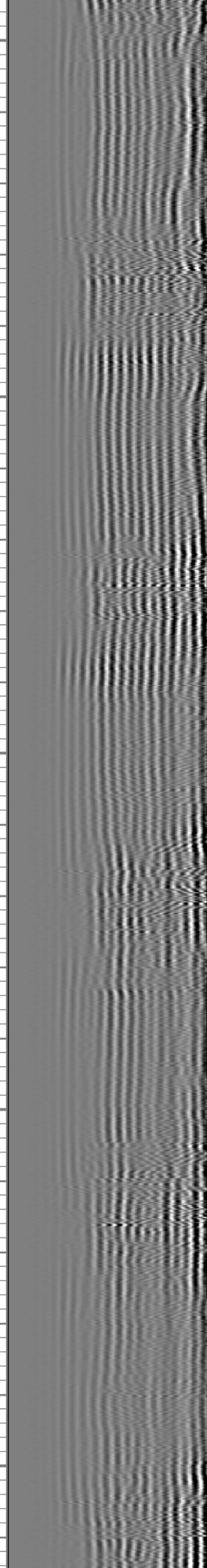
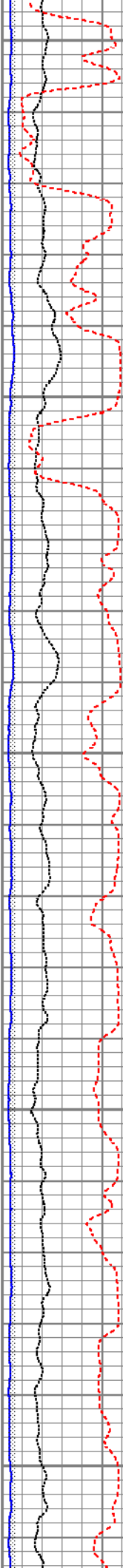
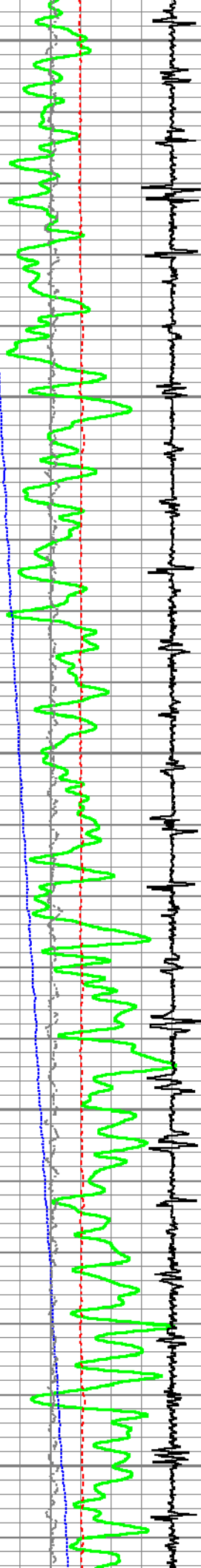


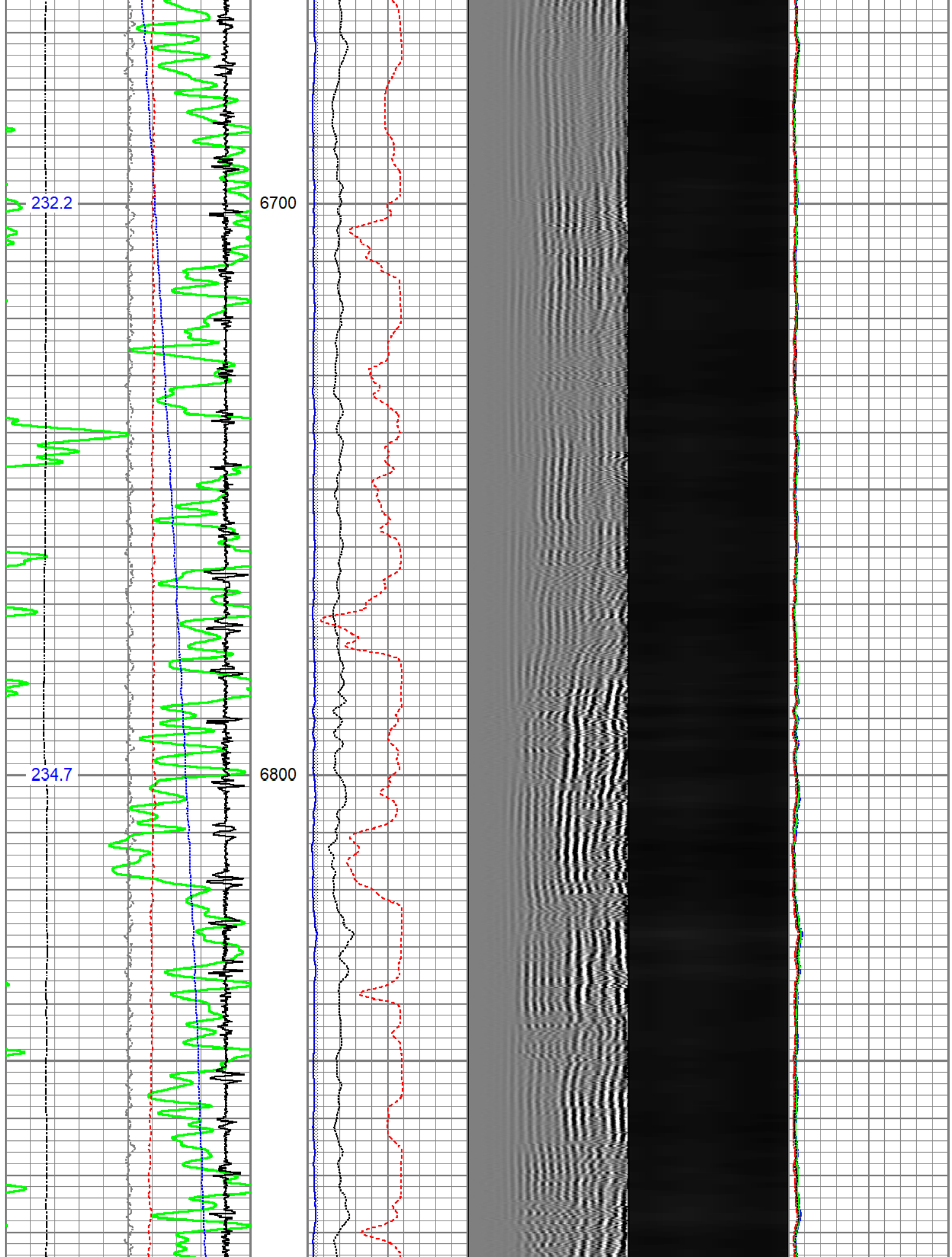
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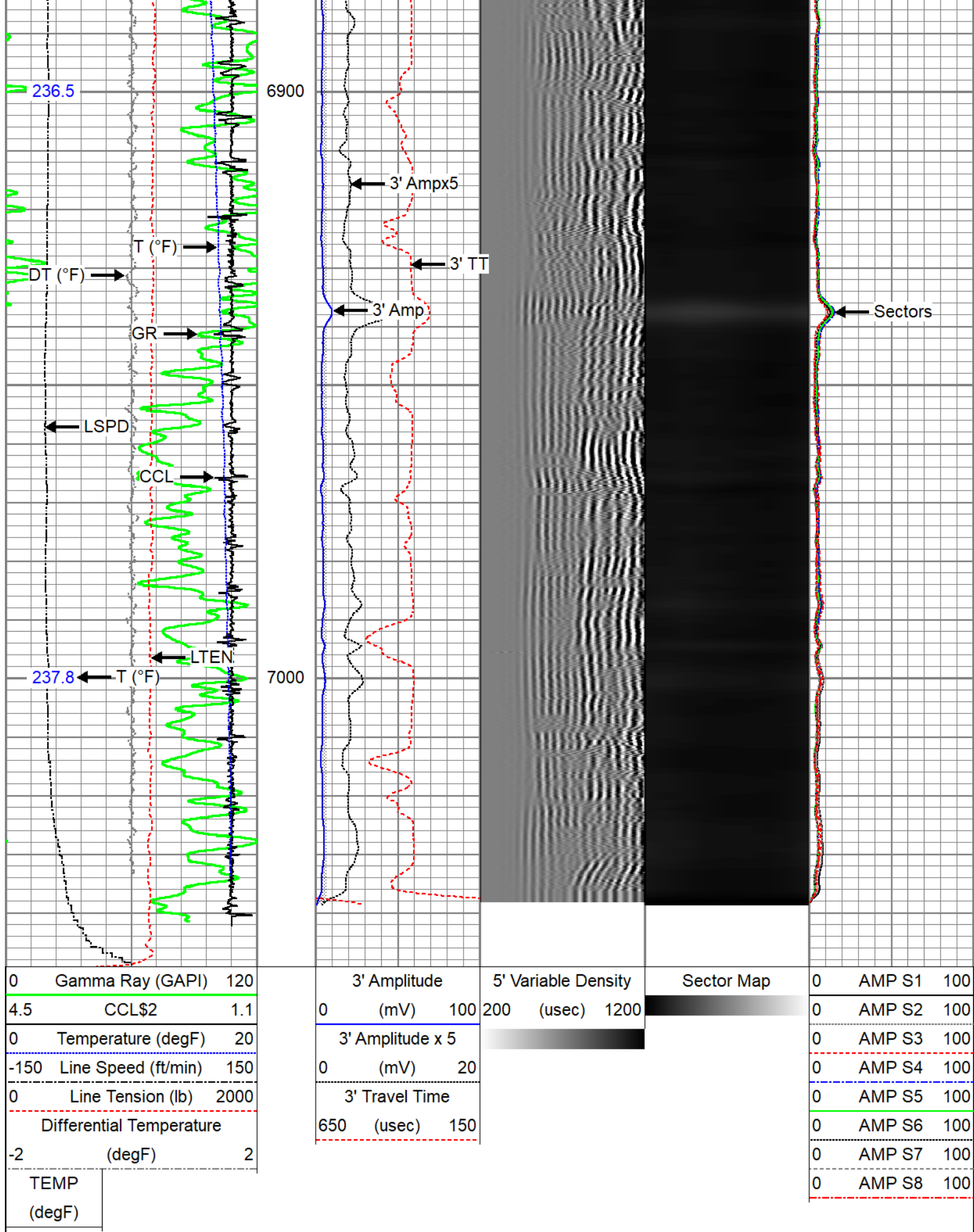
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6500

6600



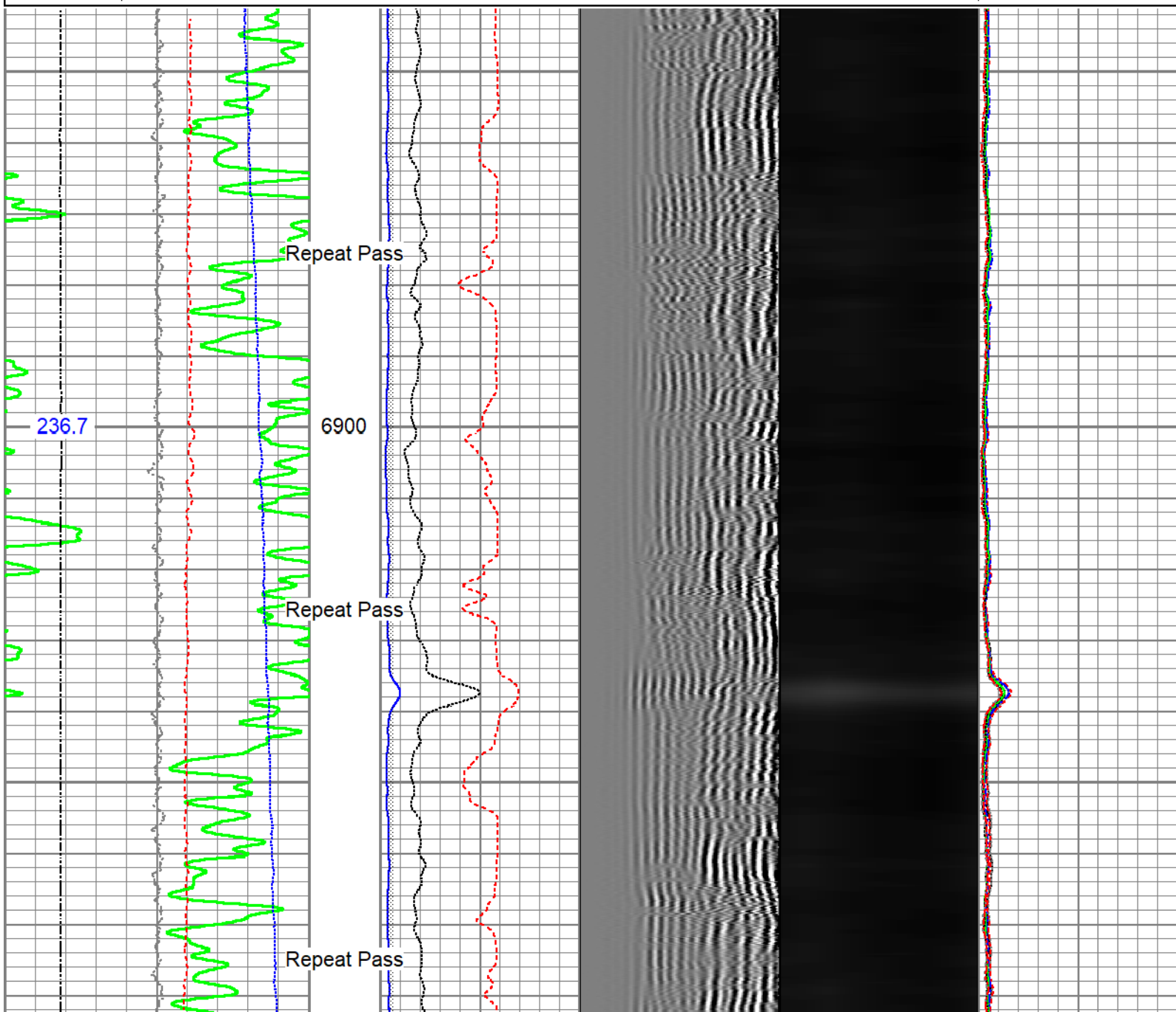


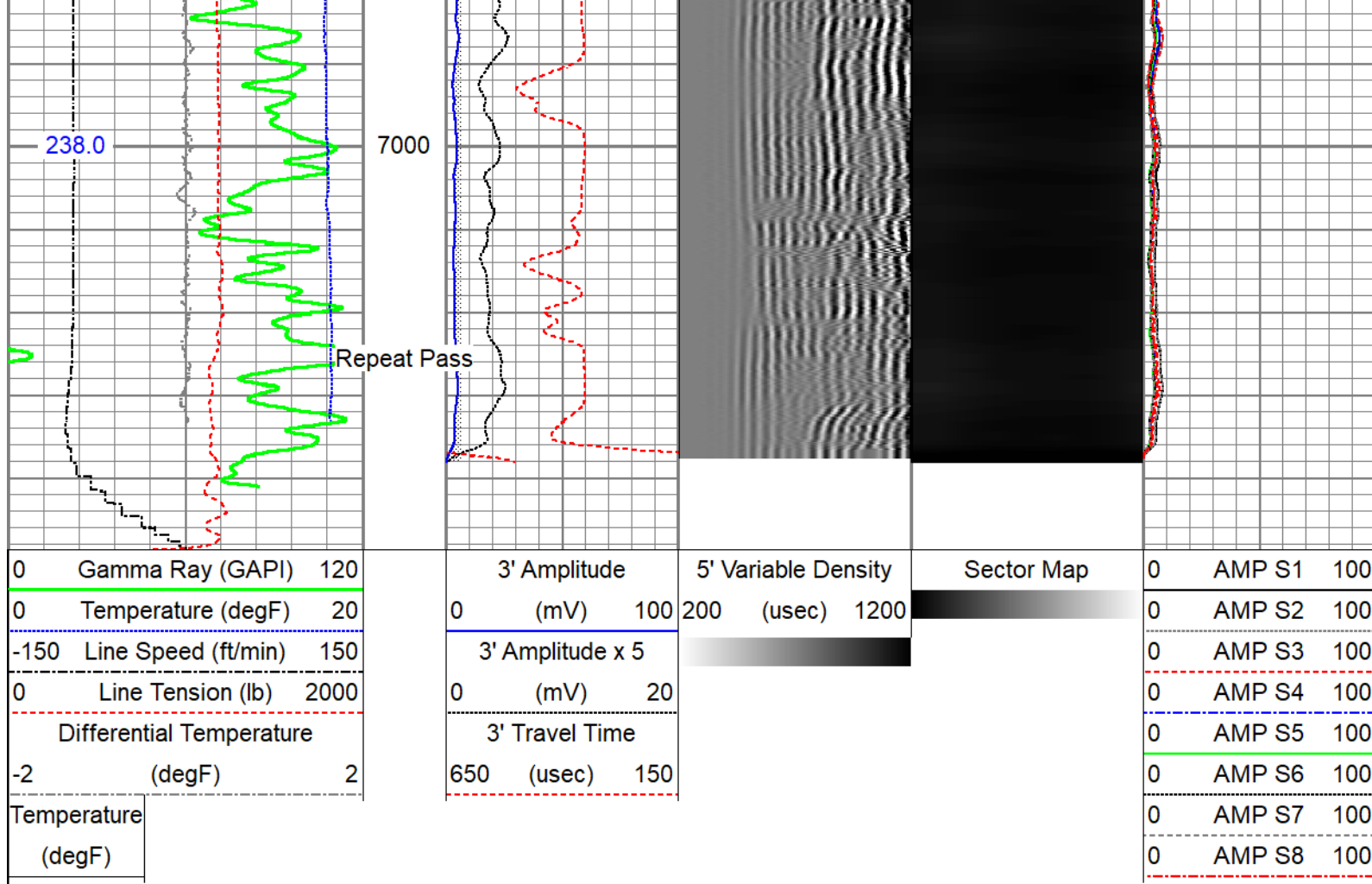


Recorded with 2500 PSI Surface Induced Pressure

Database File noble energy\rampart a32-721\noble_rampart a32-721_rbl_10-07-21.db
 Dataset Pathname repeat
 Presentation Format edge_rbl_noble
 Dataset Creation Thu Oct 07 10:33:36 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)		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 A32-721
Field	Wattenberg
County	Weld
State	Colorado