



Company	Clear Creek Resource Partners
Well	True Ranch Fee 202-2326H
Field	Wildcat
County	Weld
	State
	Colorado

Other Services

Elevation

K.B.	5869*
D.F.	---
G.L.	5852*

Run Number	1 WO
Depth Driller	18088 FT

Bottom Logged Interval	1188 F-1
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Open Hole Size	8.5"
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Density / Viscosity	8.34 lb/gal
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Estimated Cement Top	See Log
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Time Logger on Bottom	14:10
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Location	Platteville, CO
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Witnessed By	Pat Martin
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Borehole Record		
Bun Number	Bit	From To
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
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81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

[illegible]

Surface Casing	9 5/8	36
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Intermediate #2		
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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.

Log ran as per customer request
Depth referenced to Casing Tally reported Floating Sub at 7652 FT
Adjusted -16 FT to correlate with Floating Sub
Gauge Ring/Junk Basket ran to 8573 FT
Log ran with 2000 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

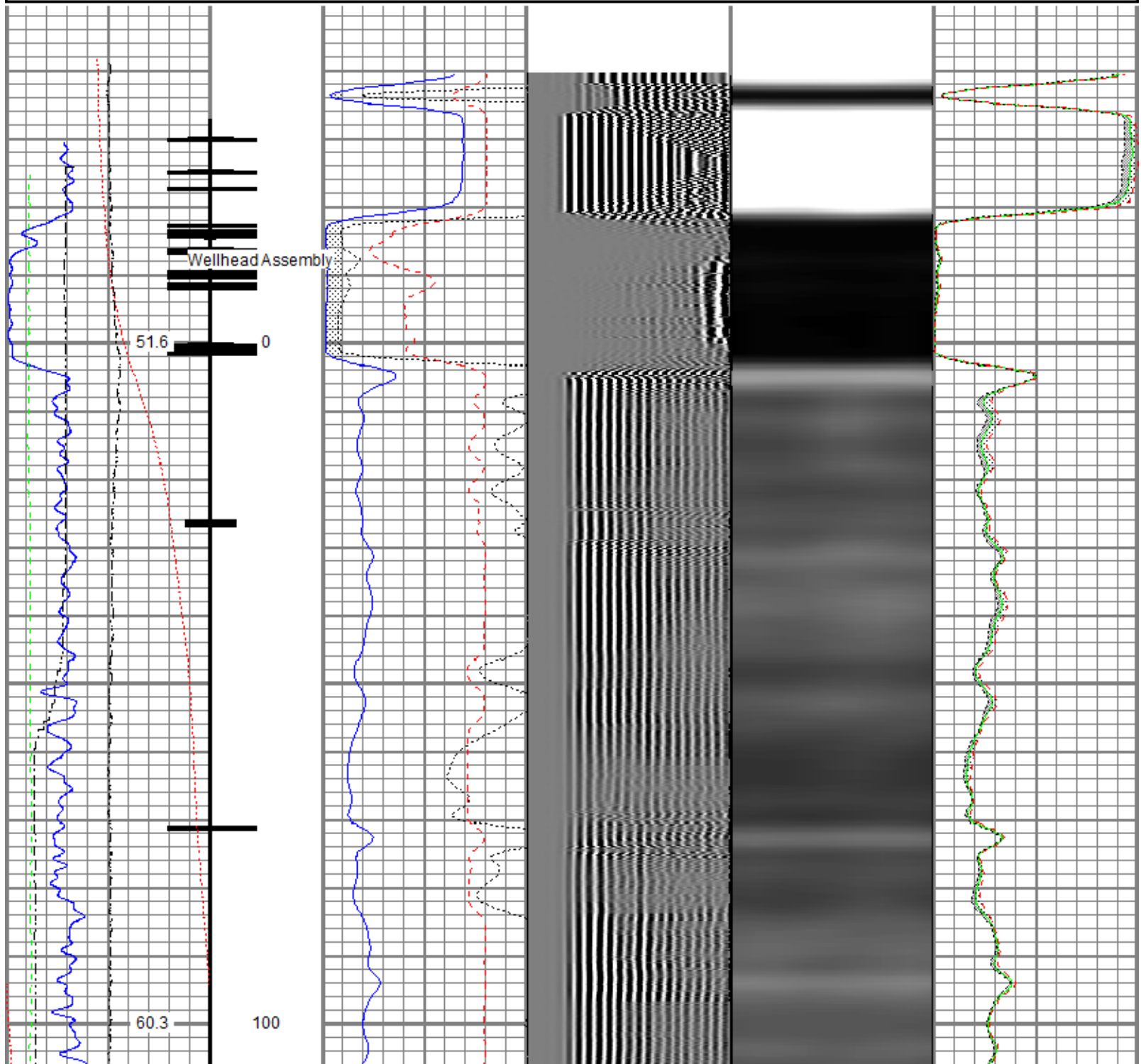
Thank you for choosing Reliance Oilfield Services, LLC!!

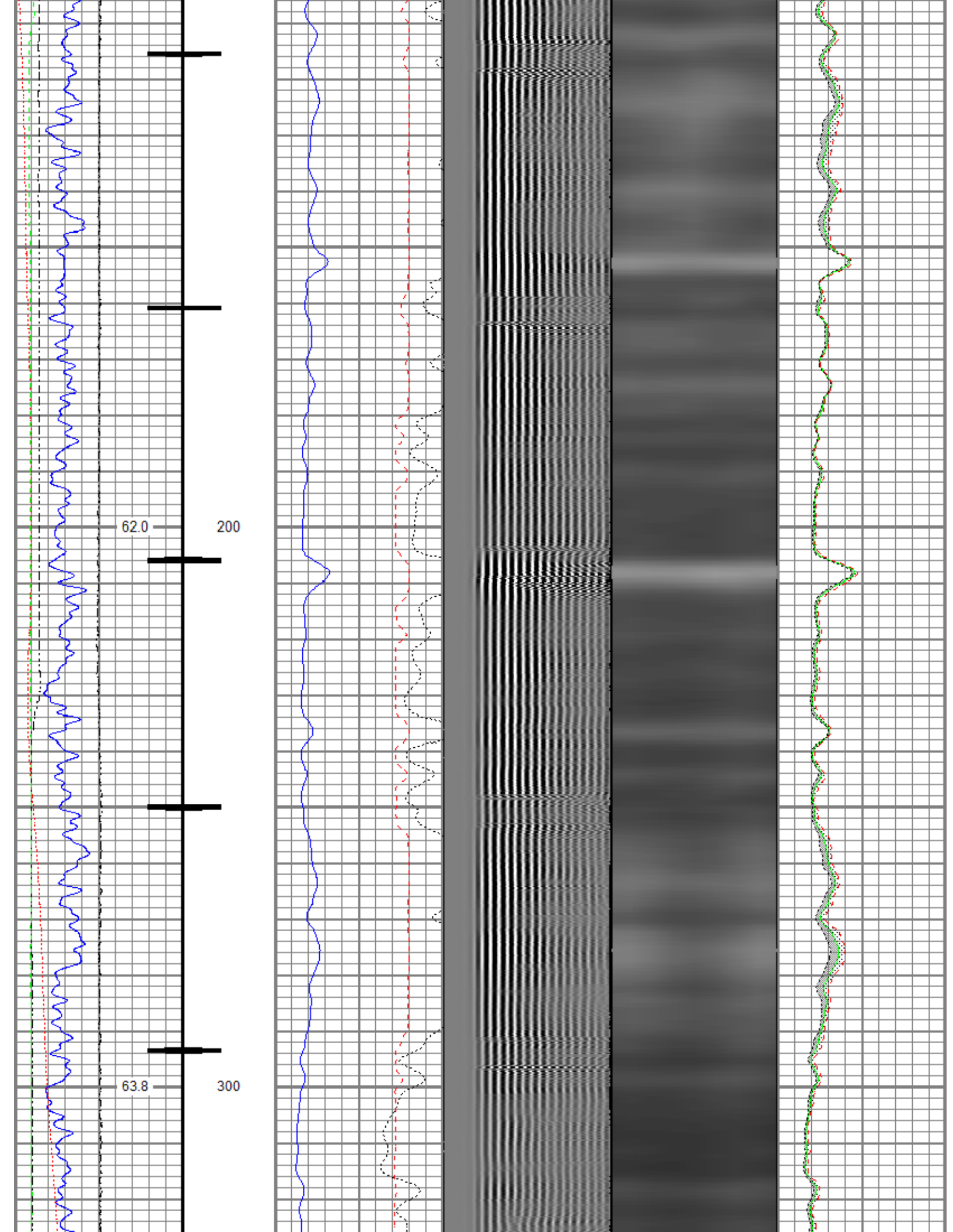
Main Pass

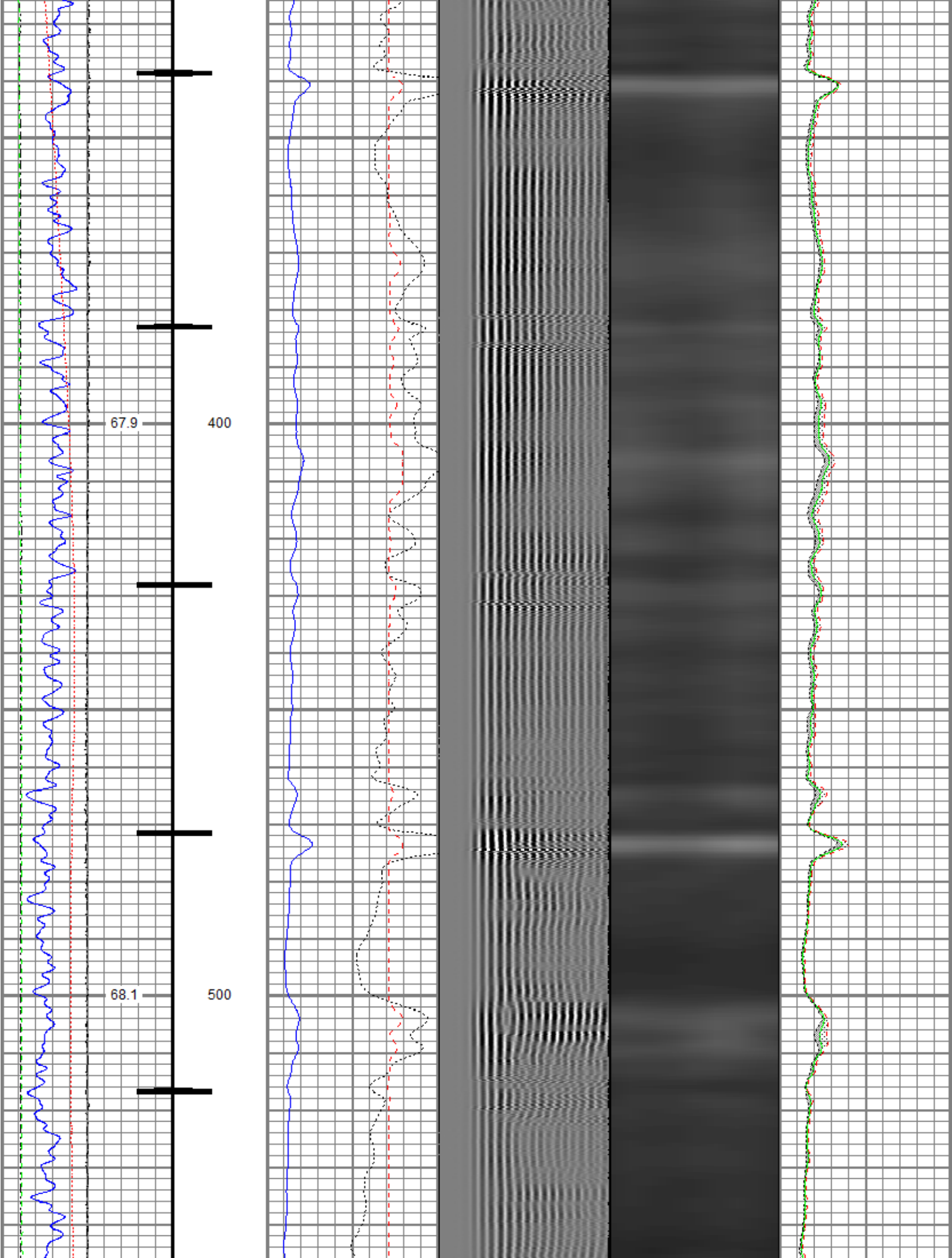


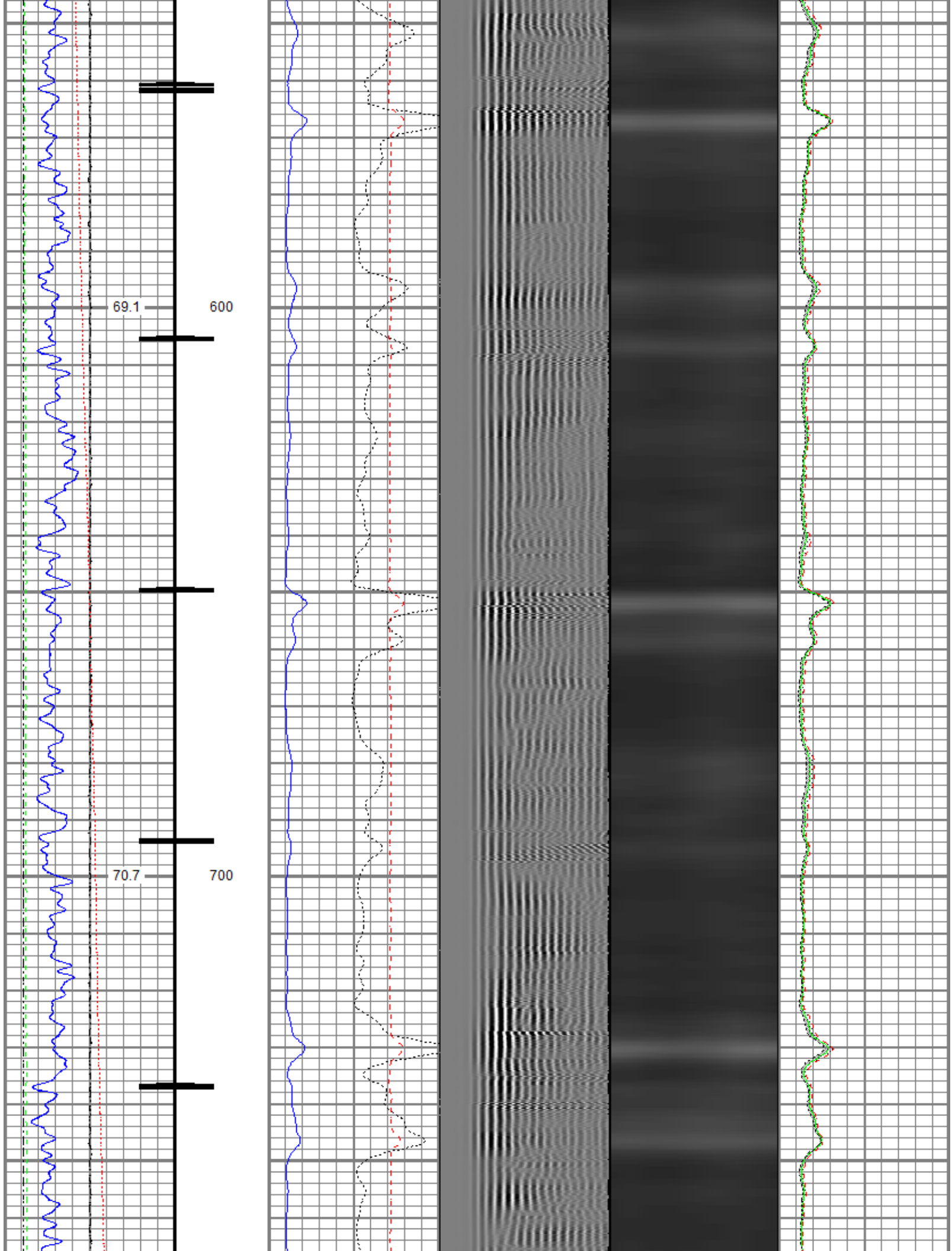
Database File clear_creek_true_ranch_fee_202-2326h\clear_creek_true_ranch_fee_202-2326h_rbl_11-27-18.db
 Dataset Pathname RCBL/pass7
 Presentation Format ros_radri
 Dataset Creation Tue Nov 27 14:12:41 2018
 Charted by Depth in Feet scaled 1:240

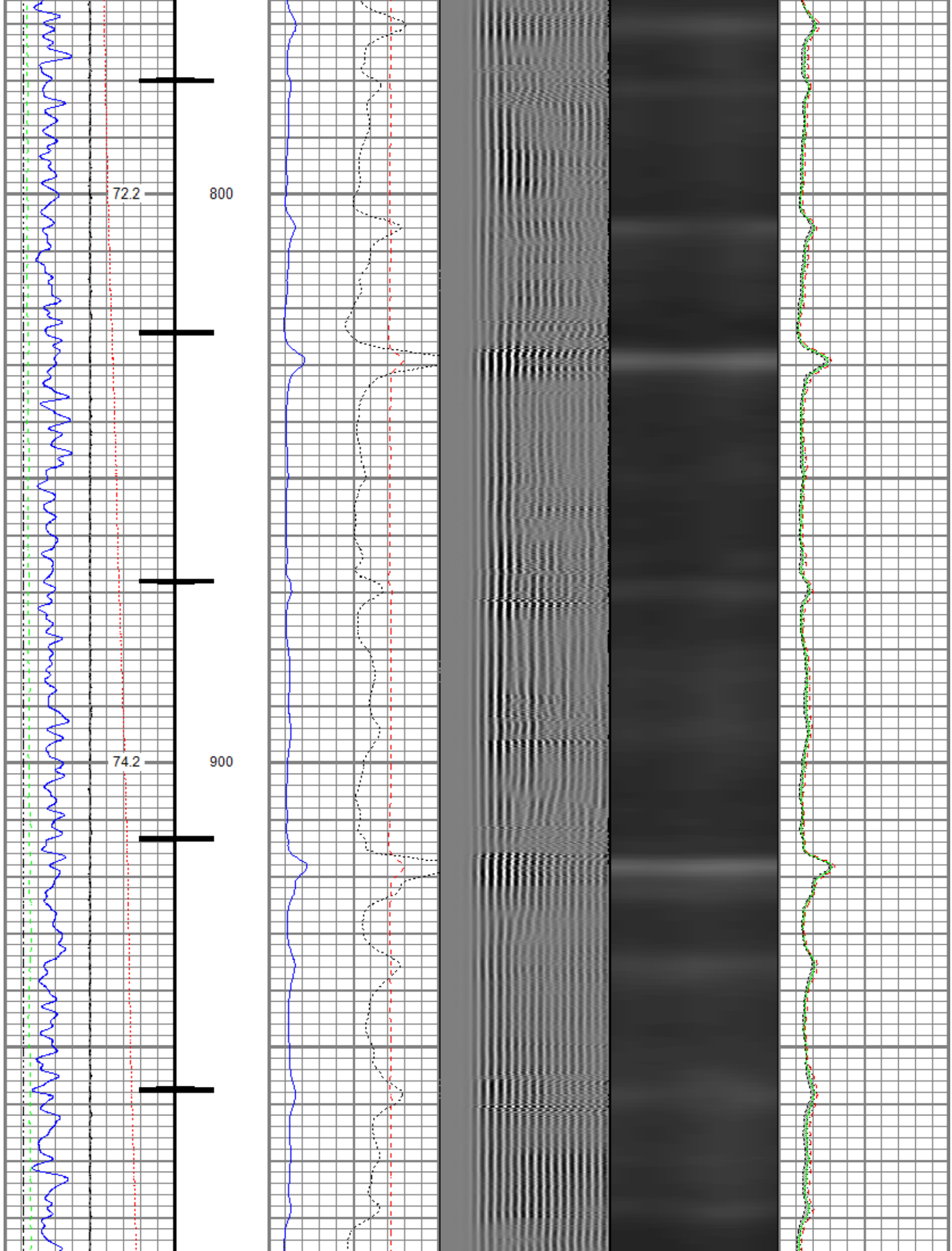
Gamma Ray	0	3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0	Average Amplitude 100
(GAPI) 120		3' Amplitude x 5	200 (usec) 1200			Minimum Amplitude
Casing Collar Locator	0	(mV) 20			0	100
Temperature (degF) 20		3' Travel Time				Maximum Amplitude
Line Speed	650	(usec) 150			0	100
-150 (ft/min) 150						
Line Tension (lb) 2000						
Differential Temperature						
-2 (degF) 2						

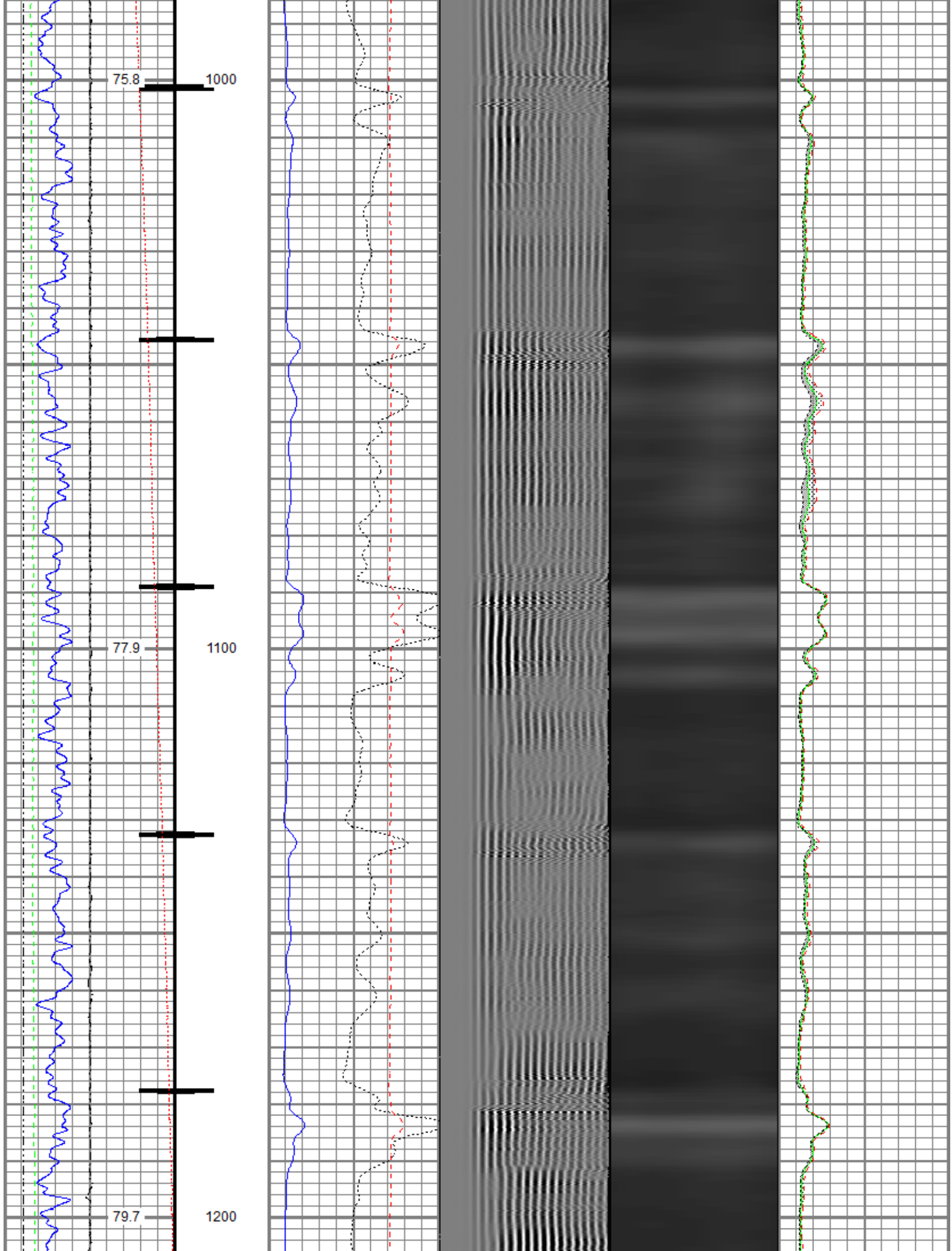


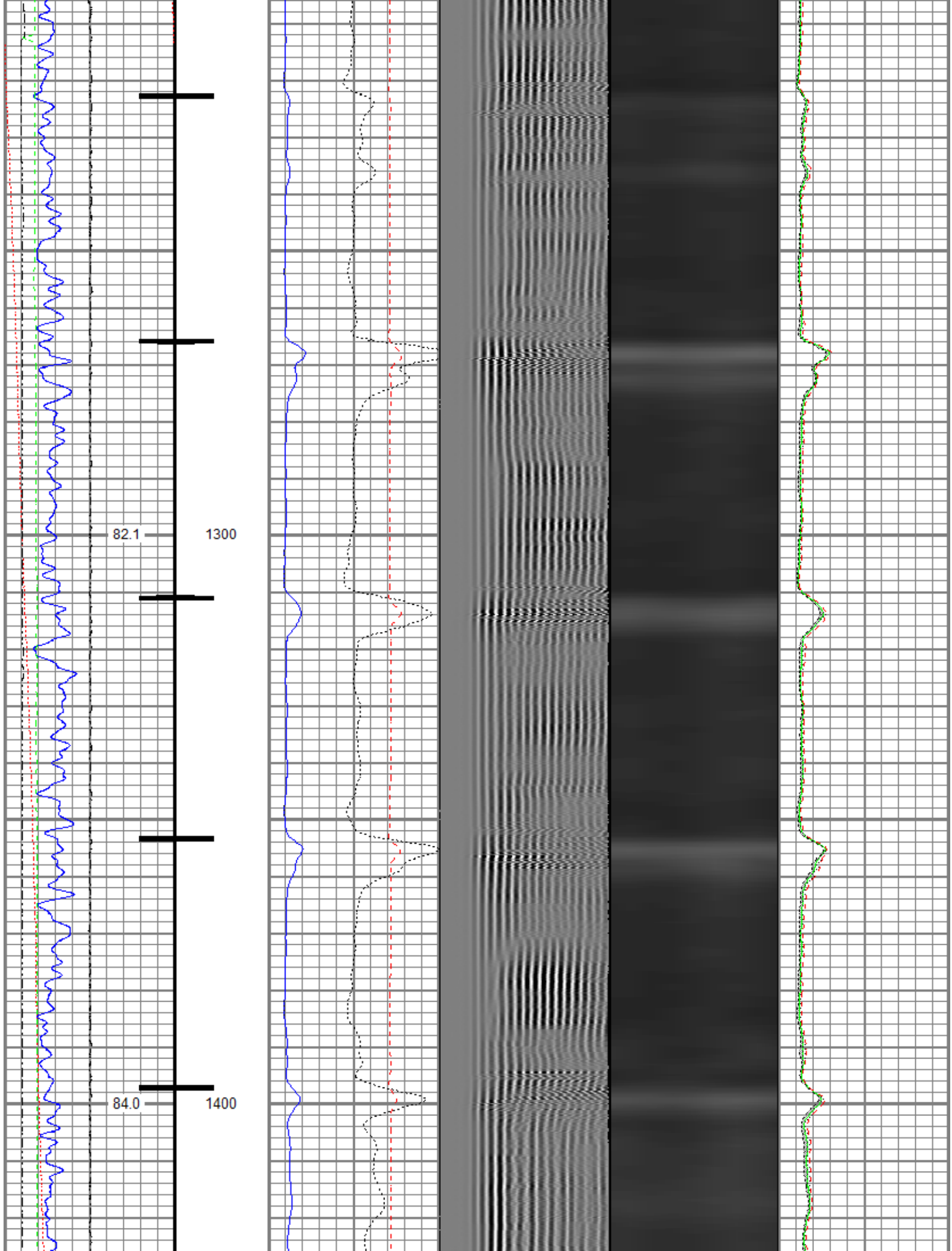


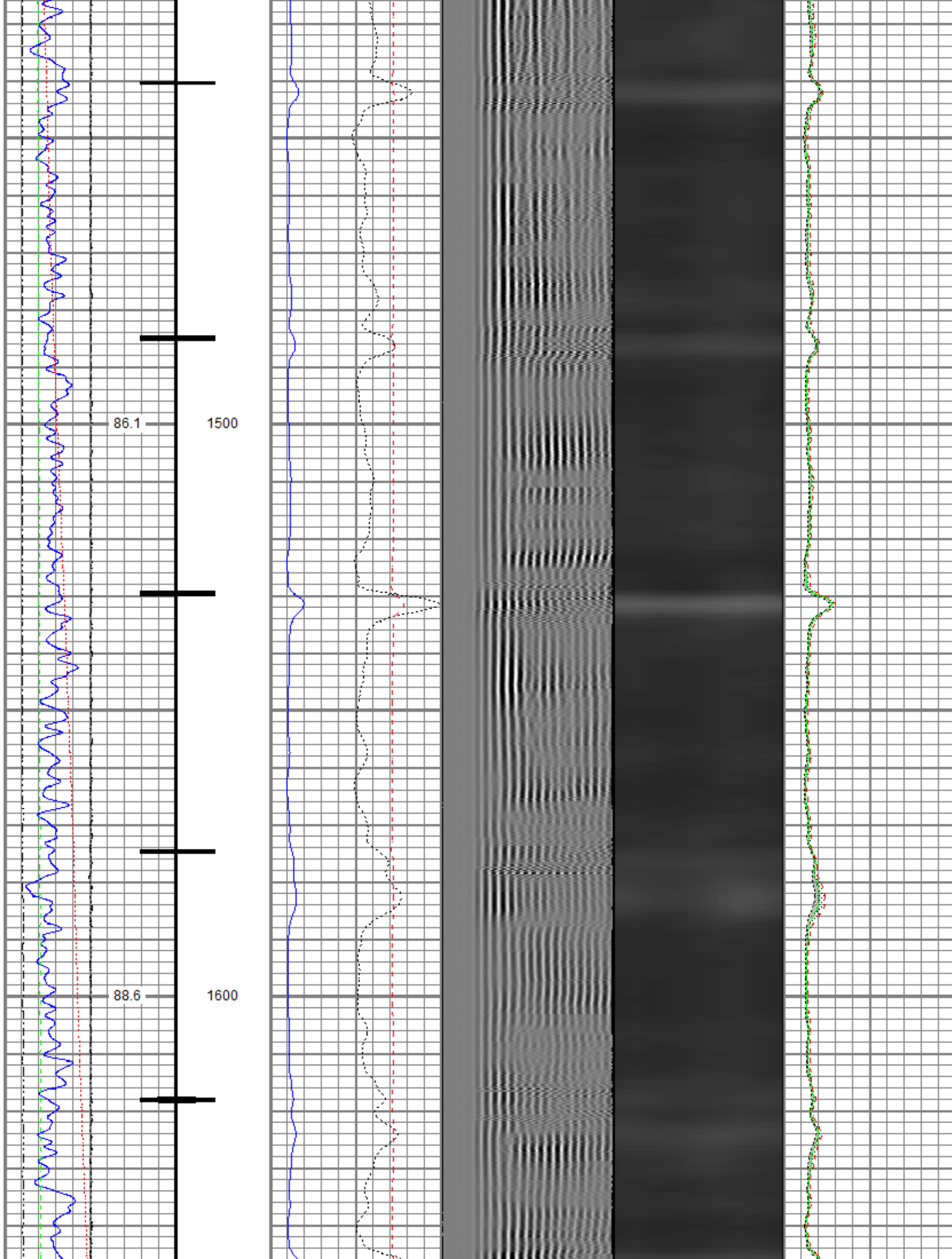


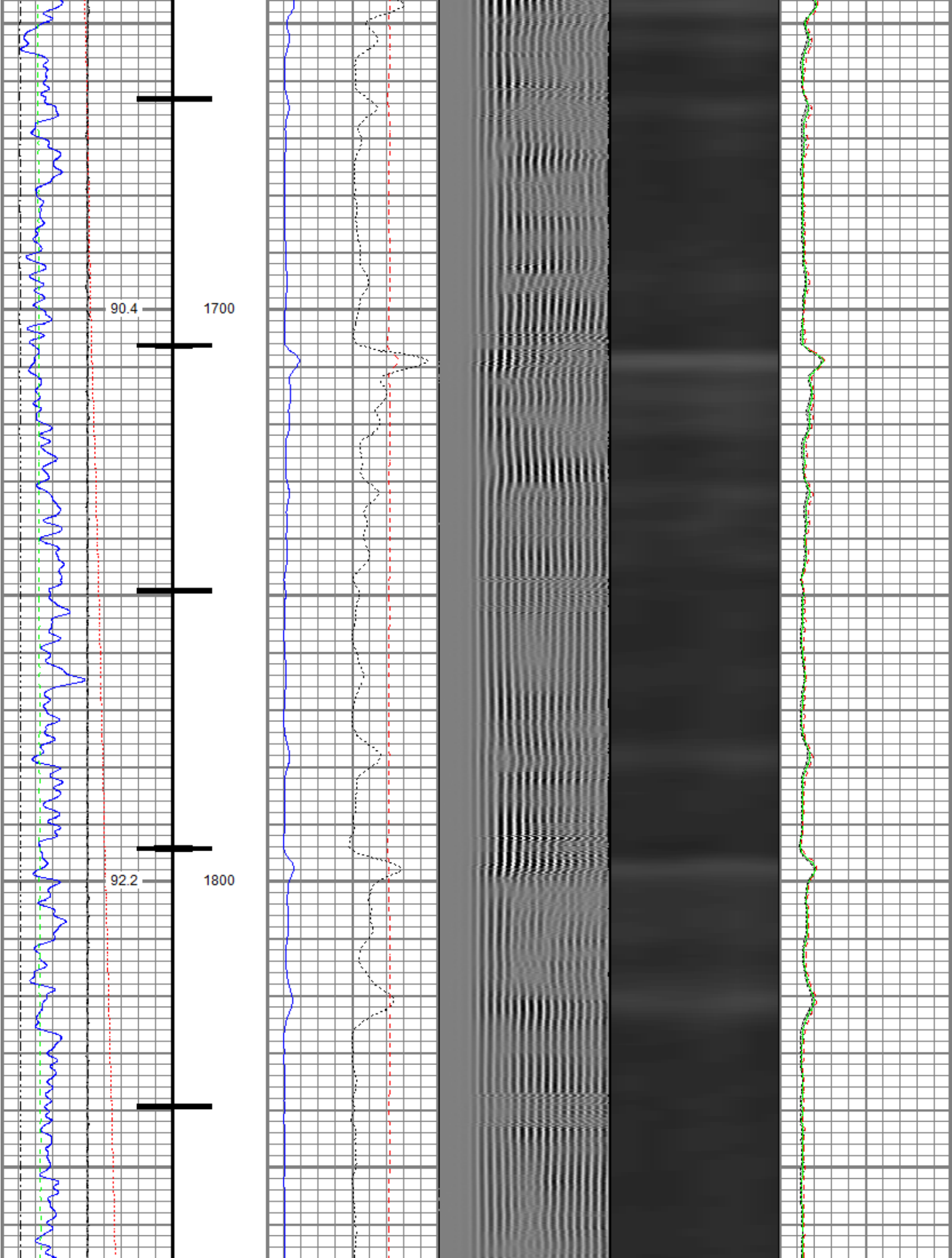


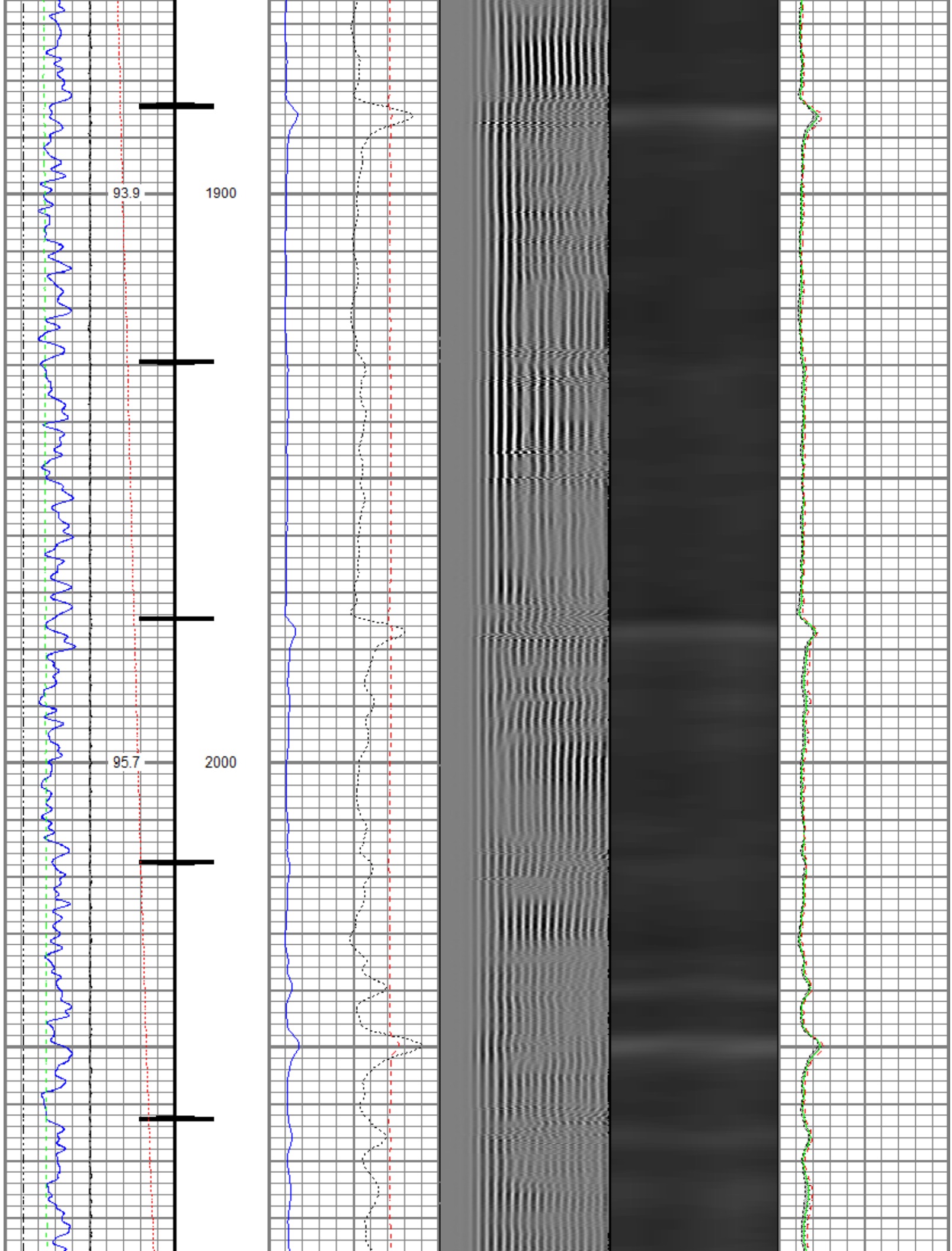


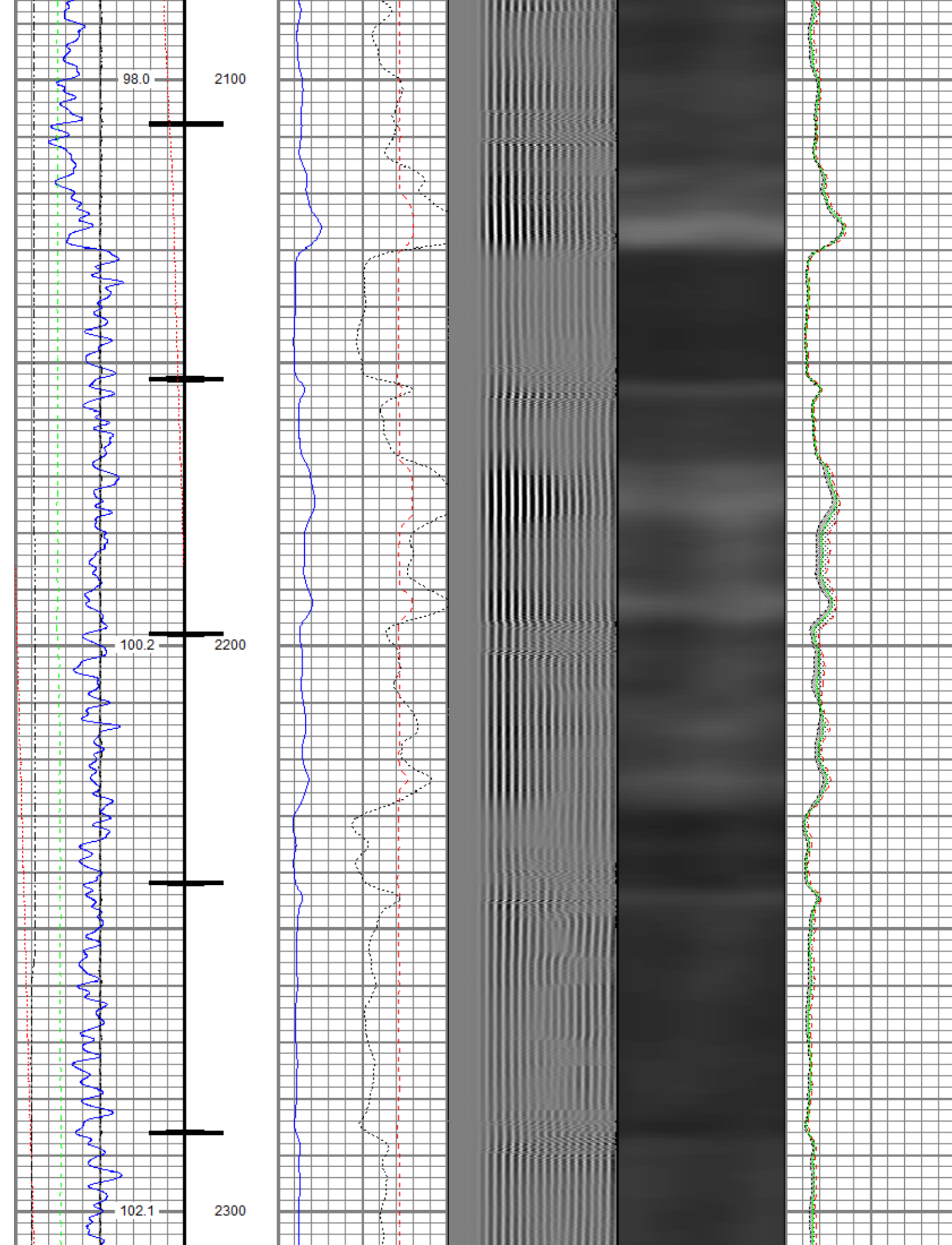


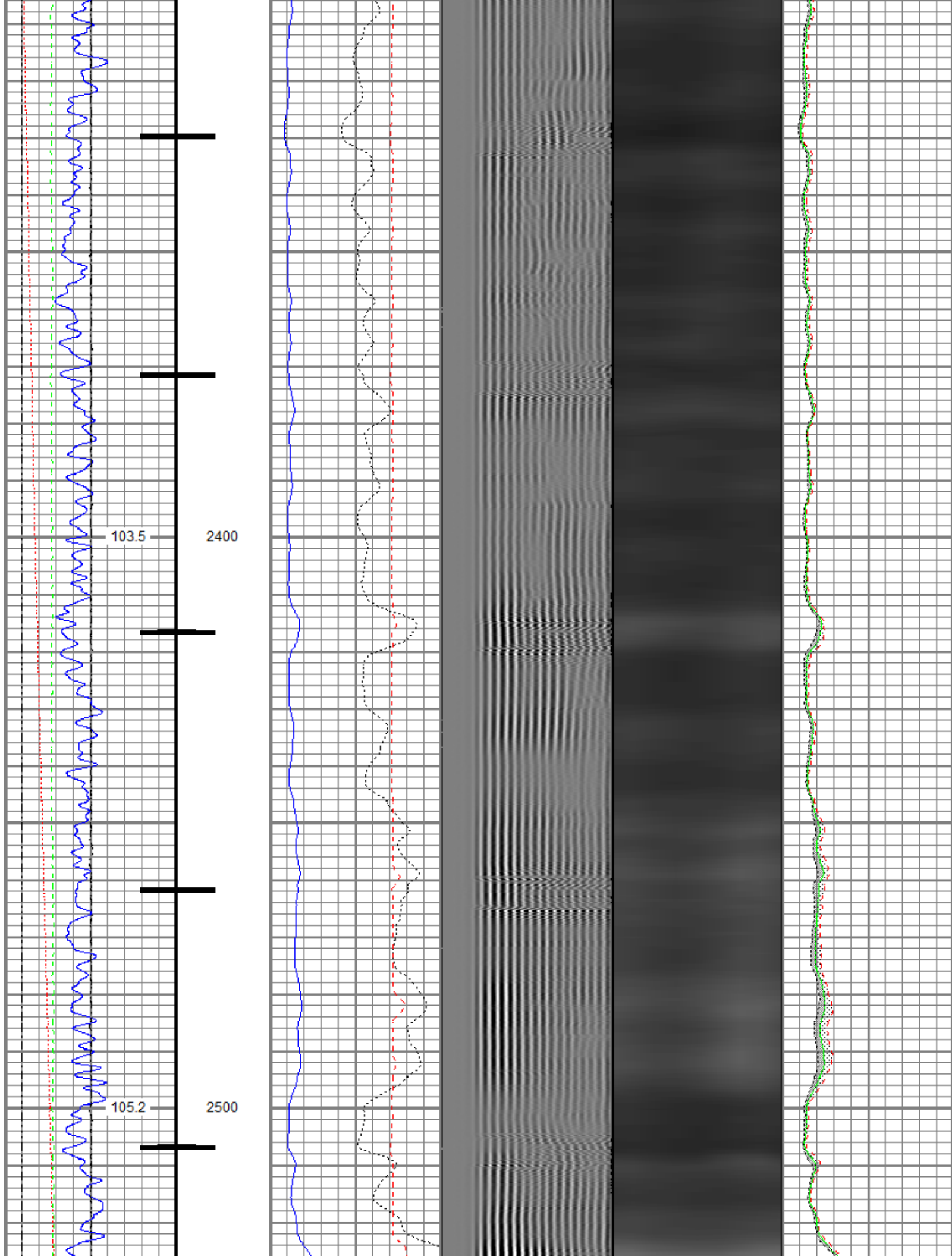


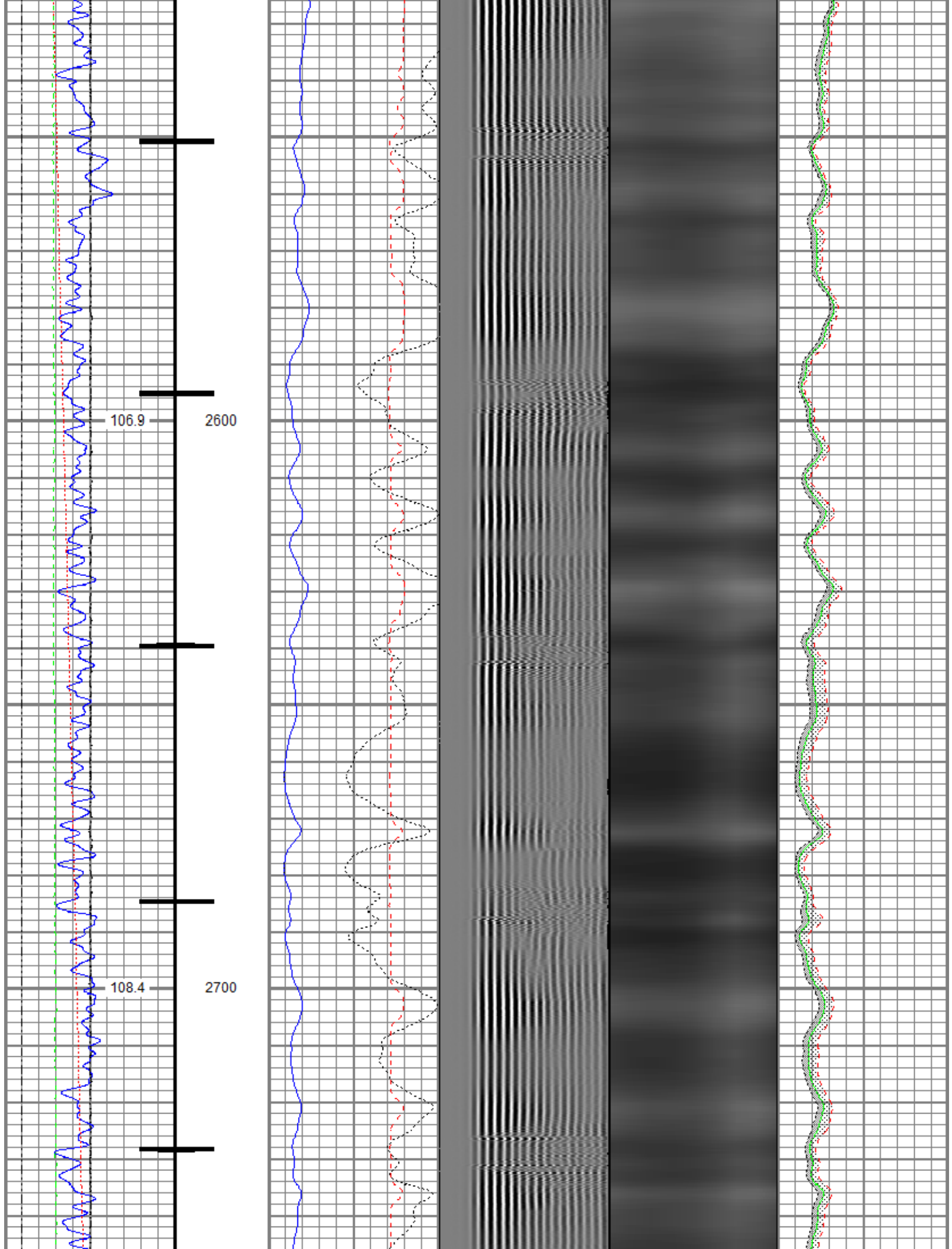


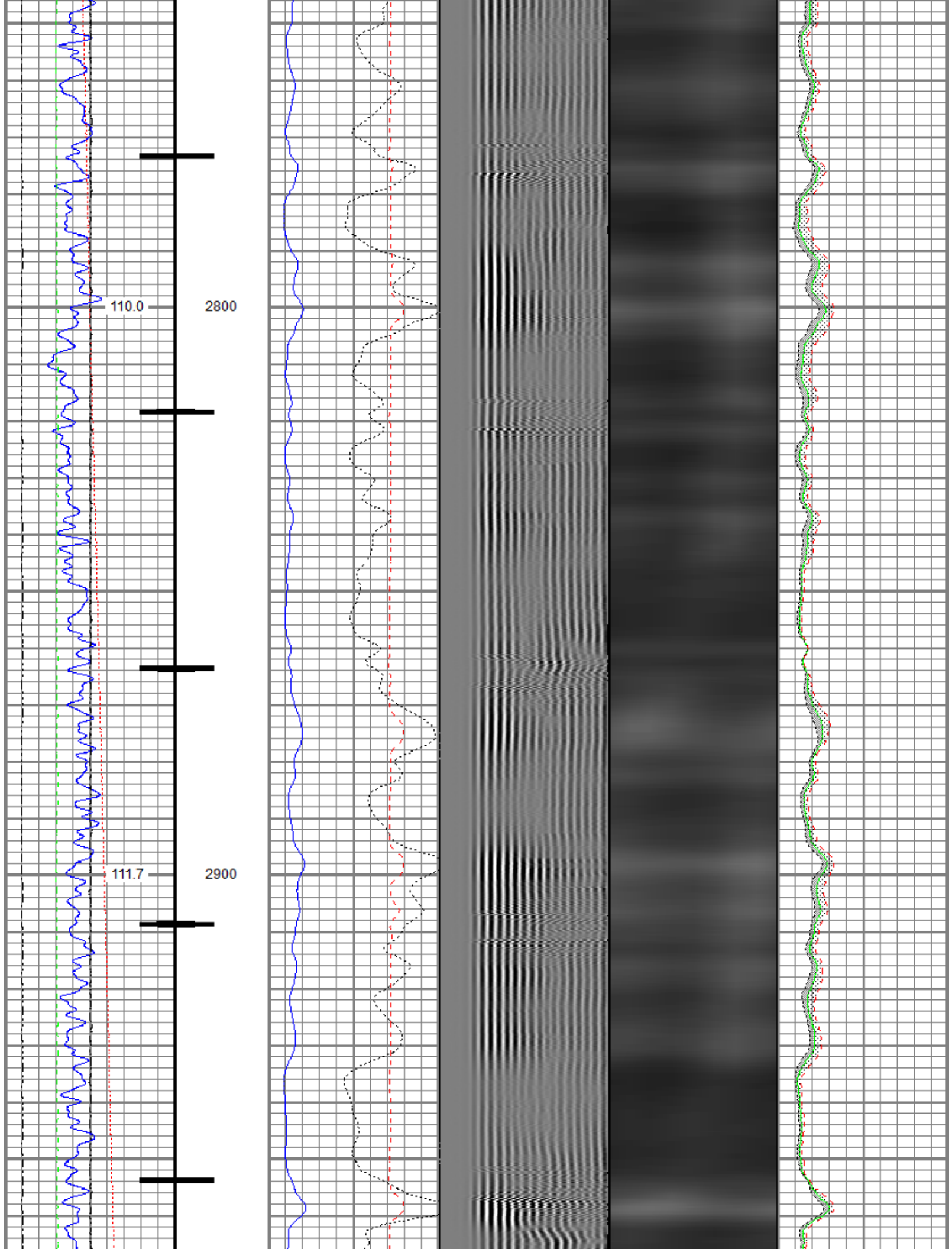


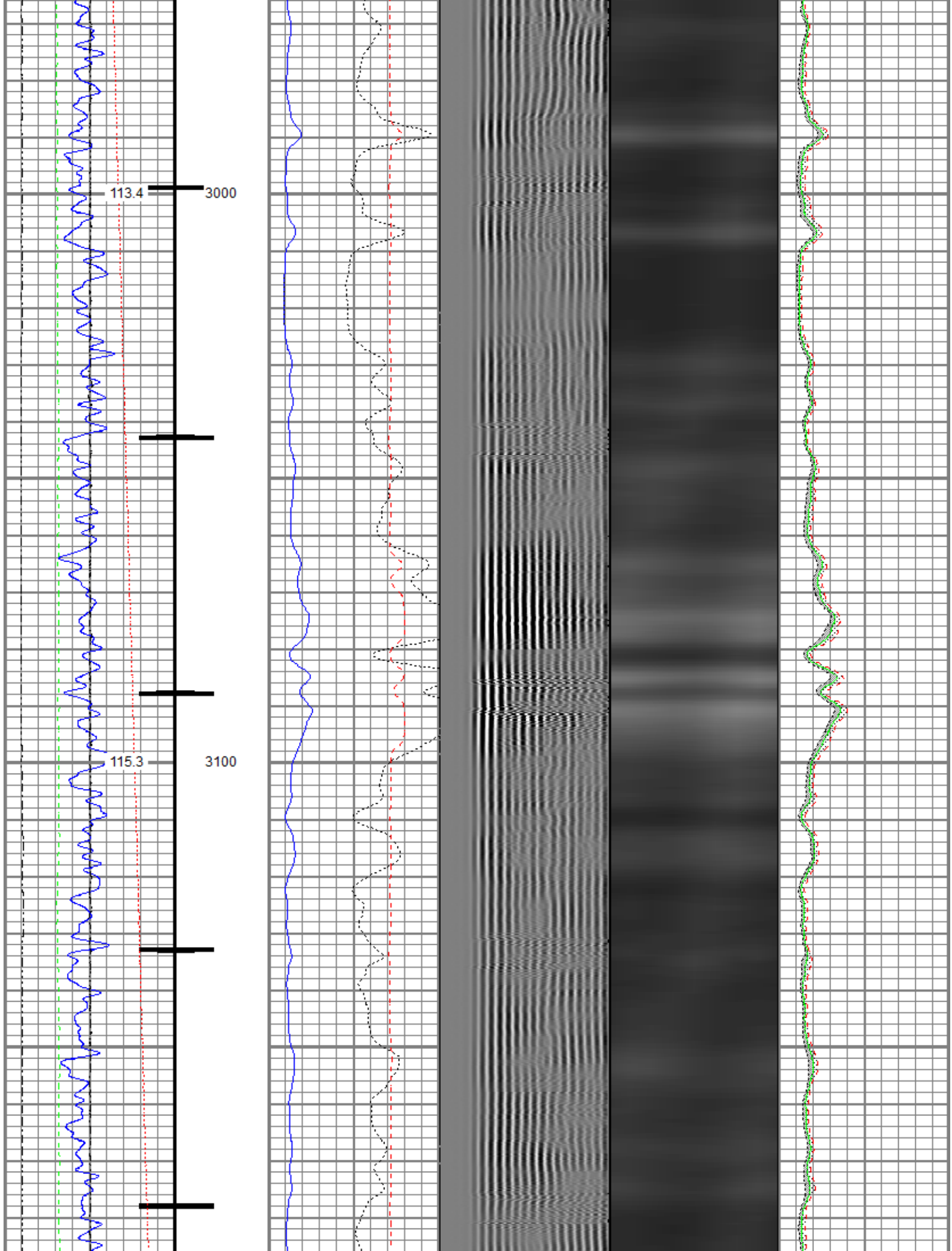


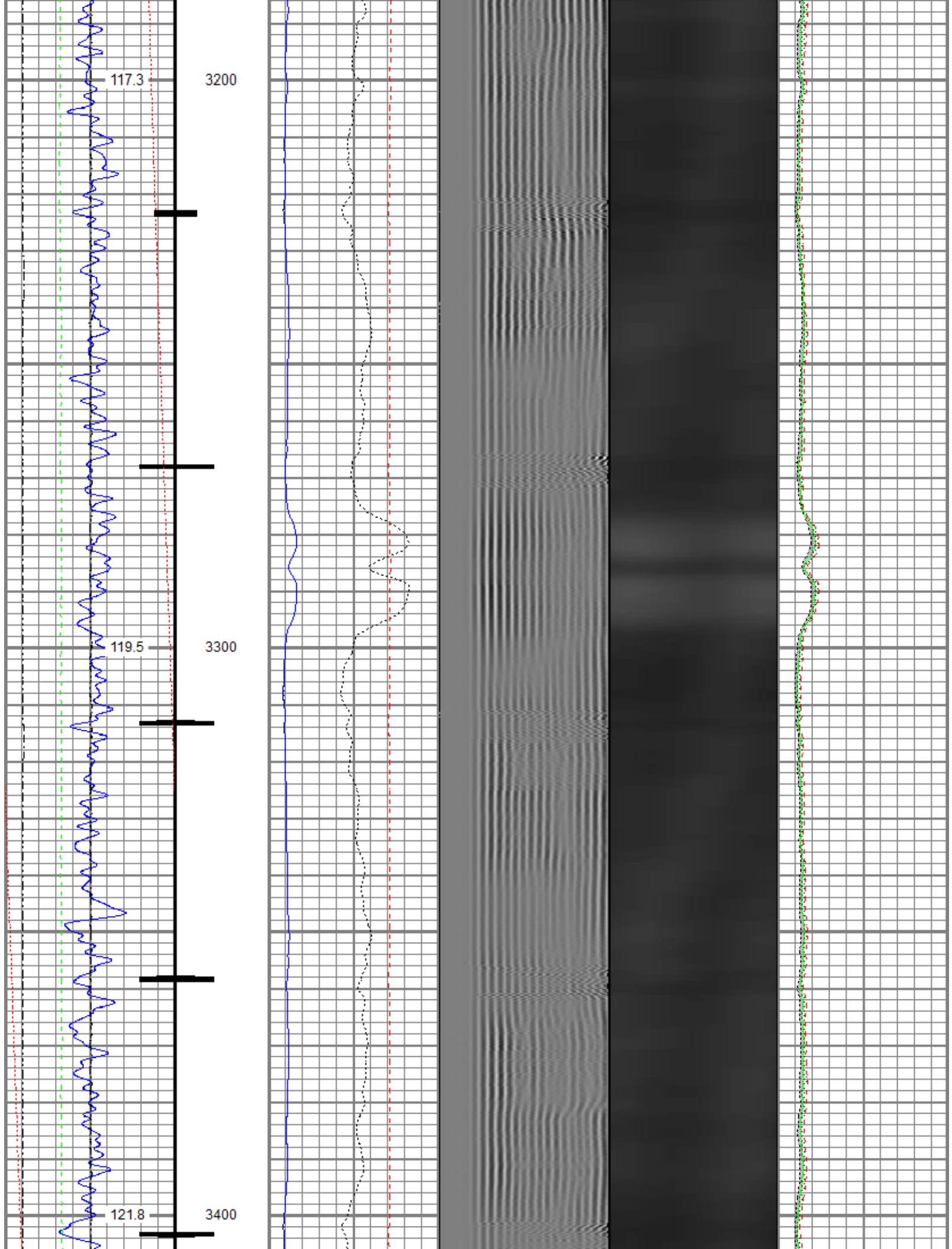


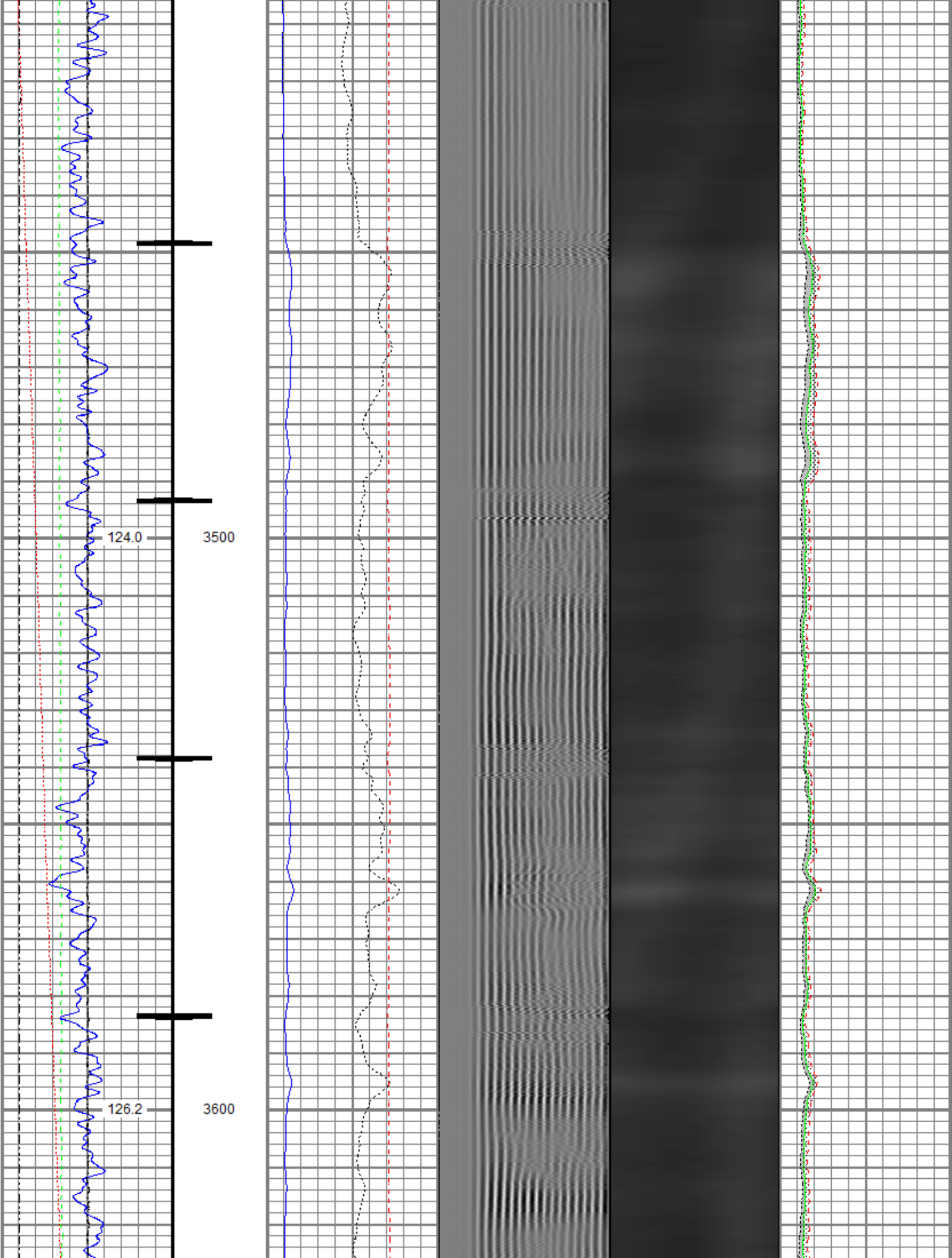


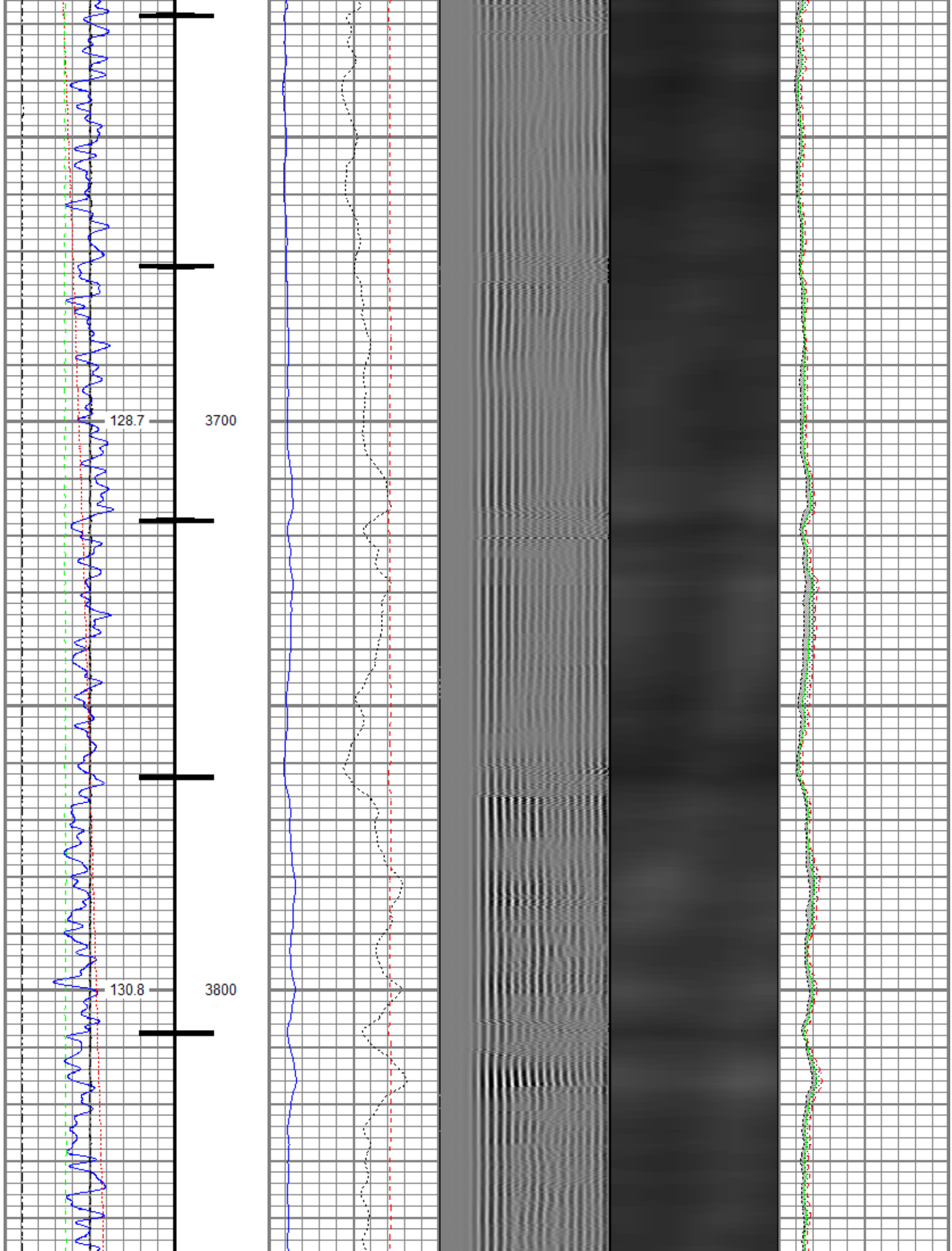


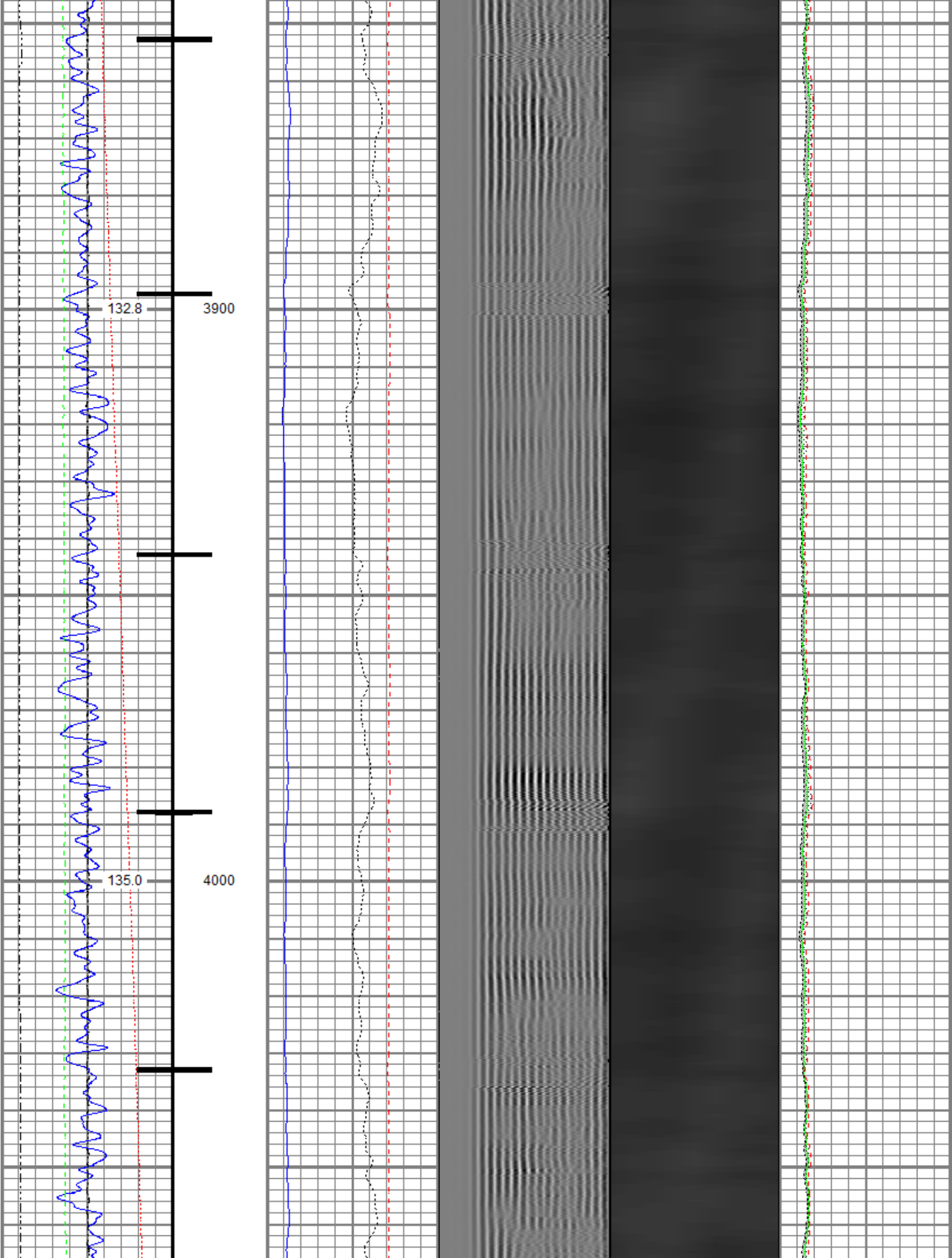


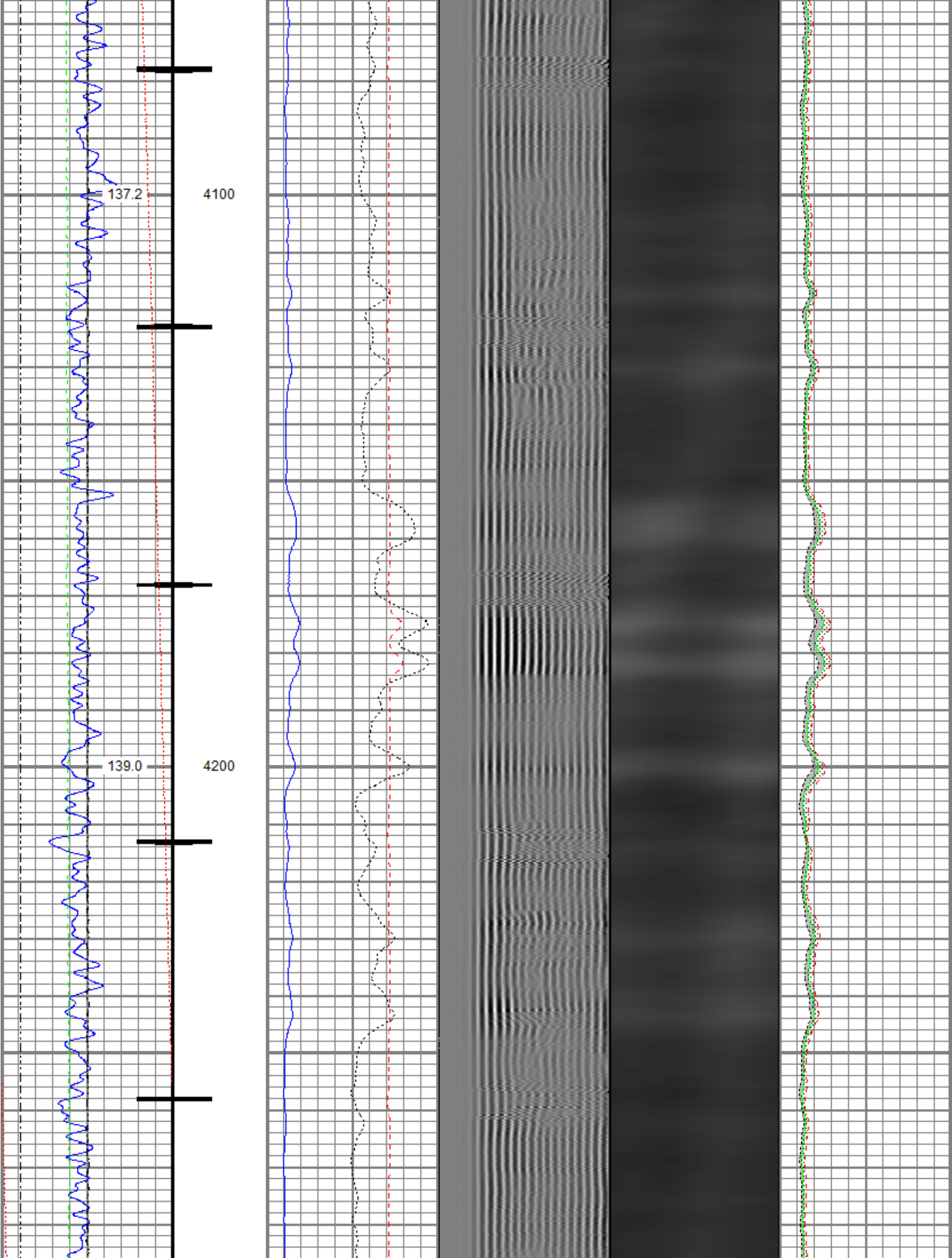


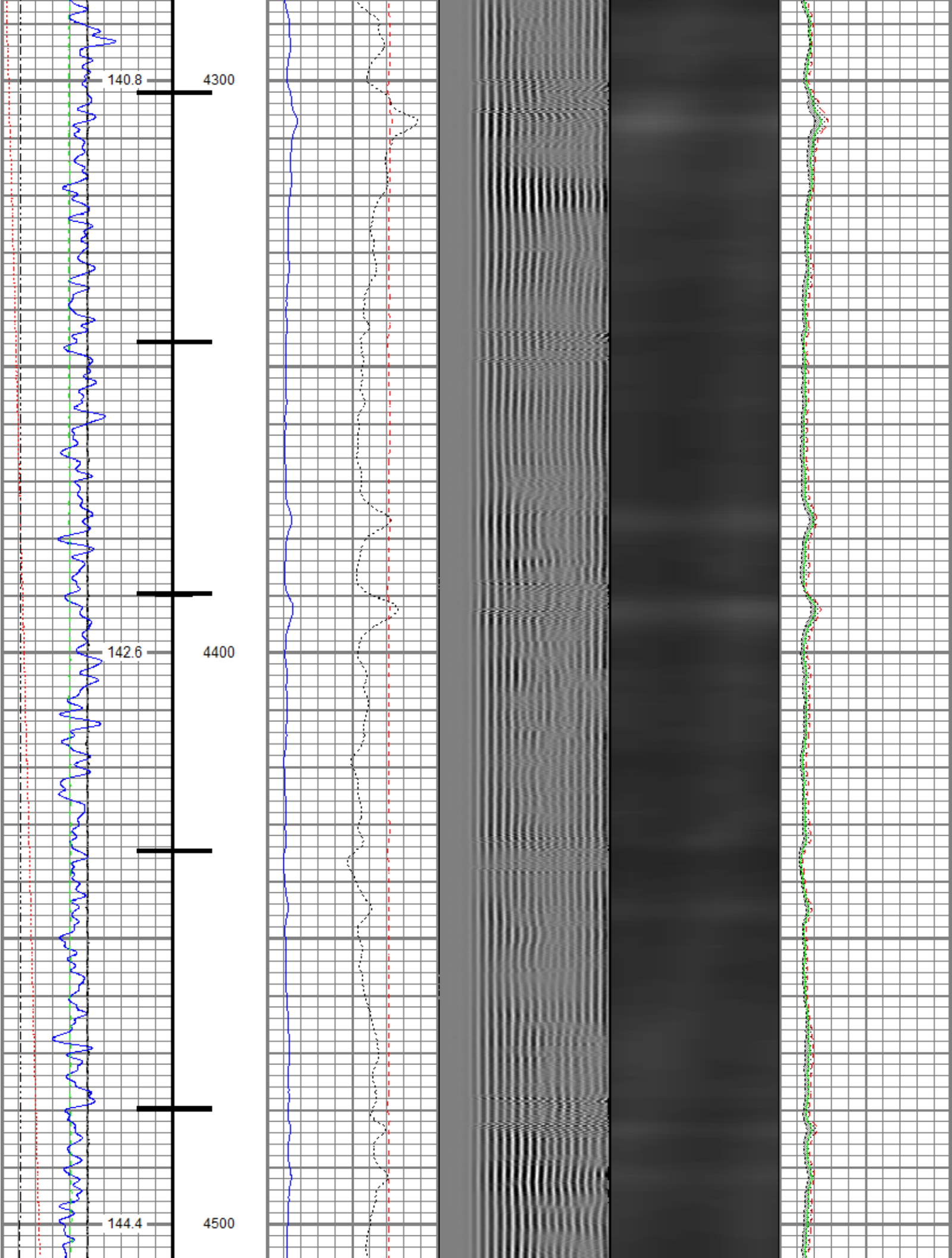


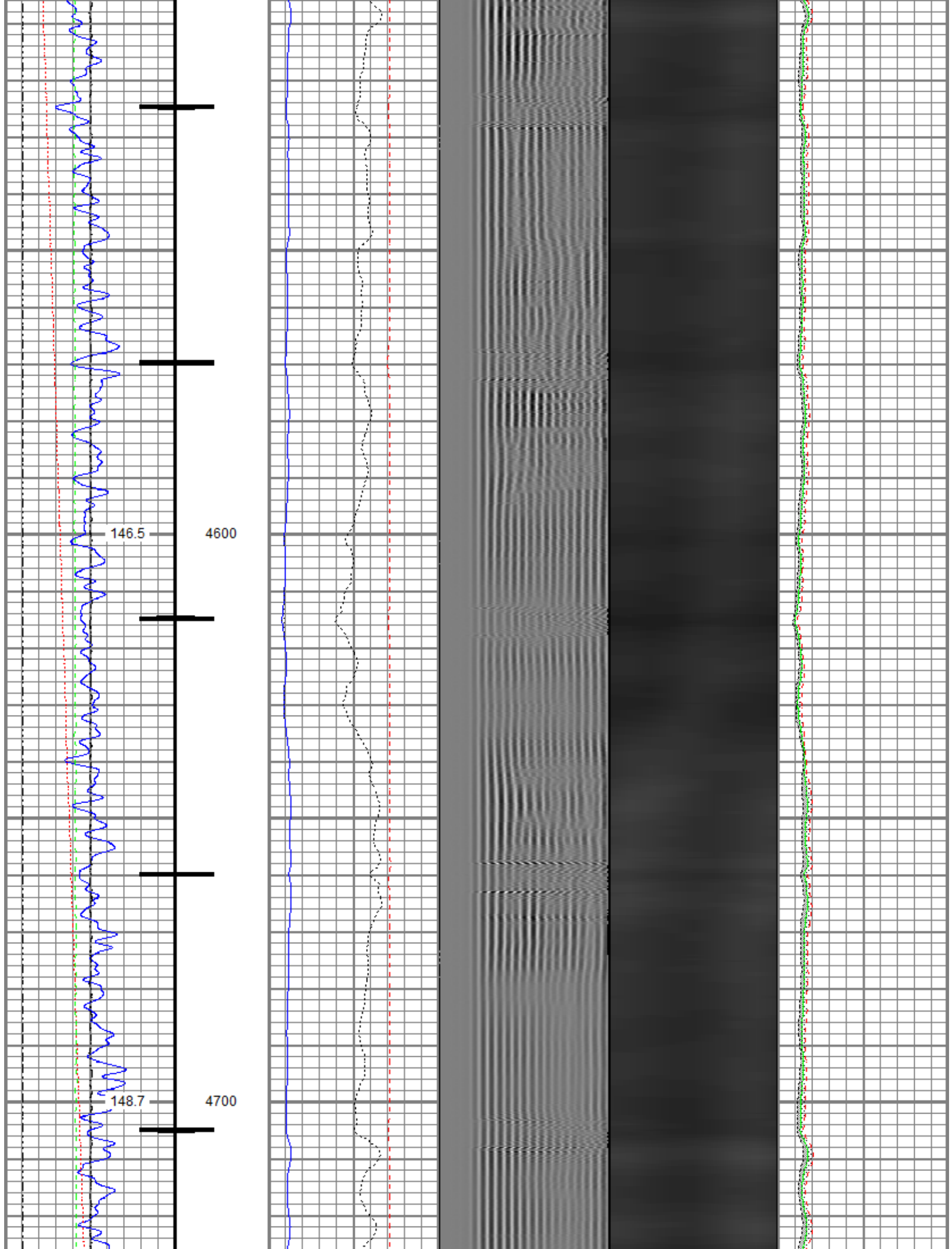


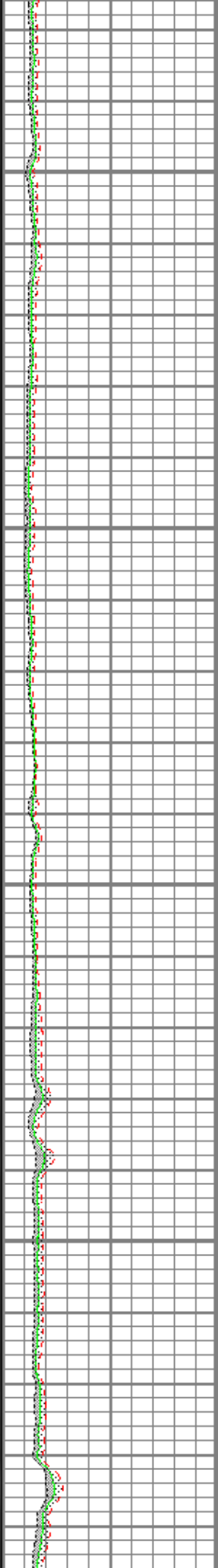
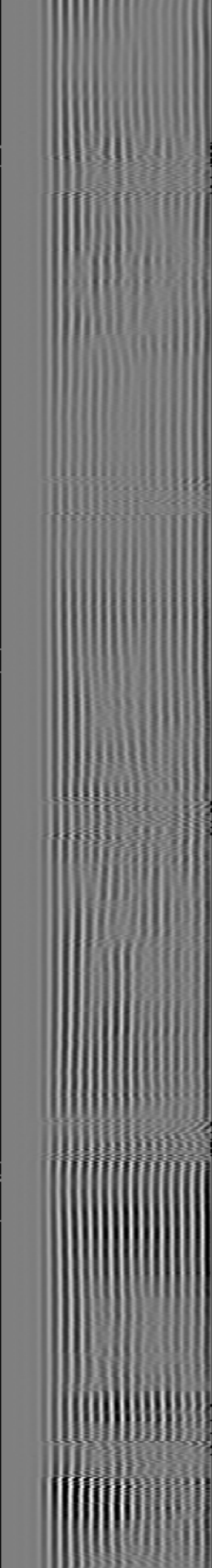
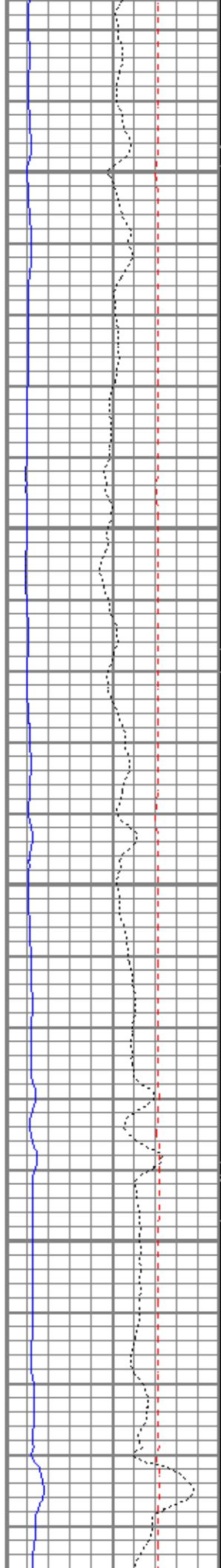
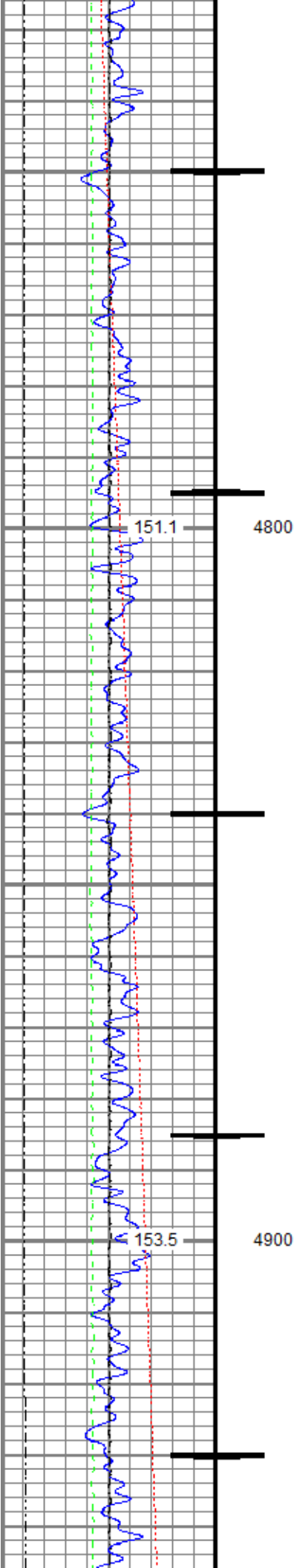


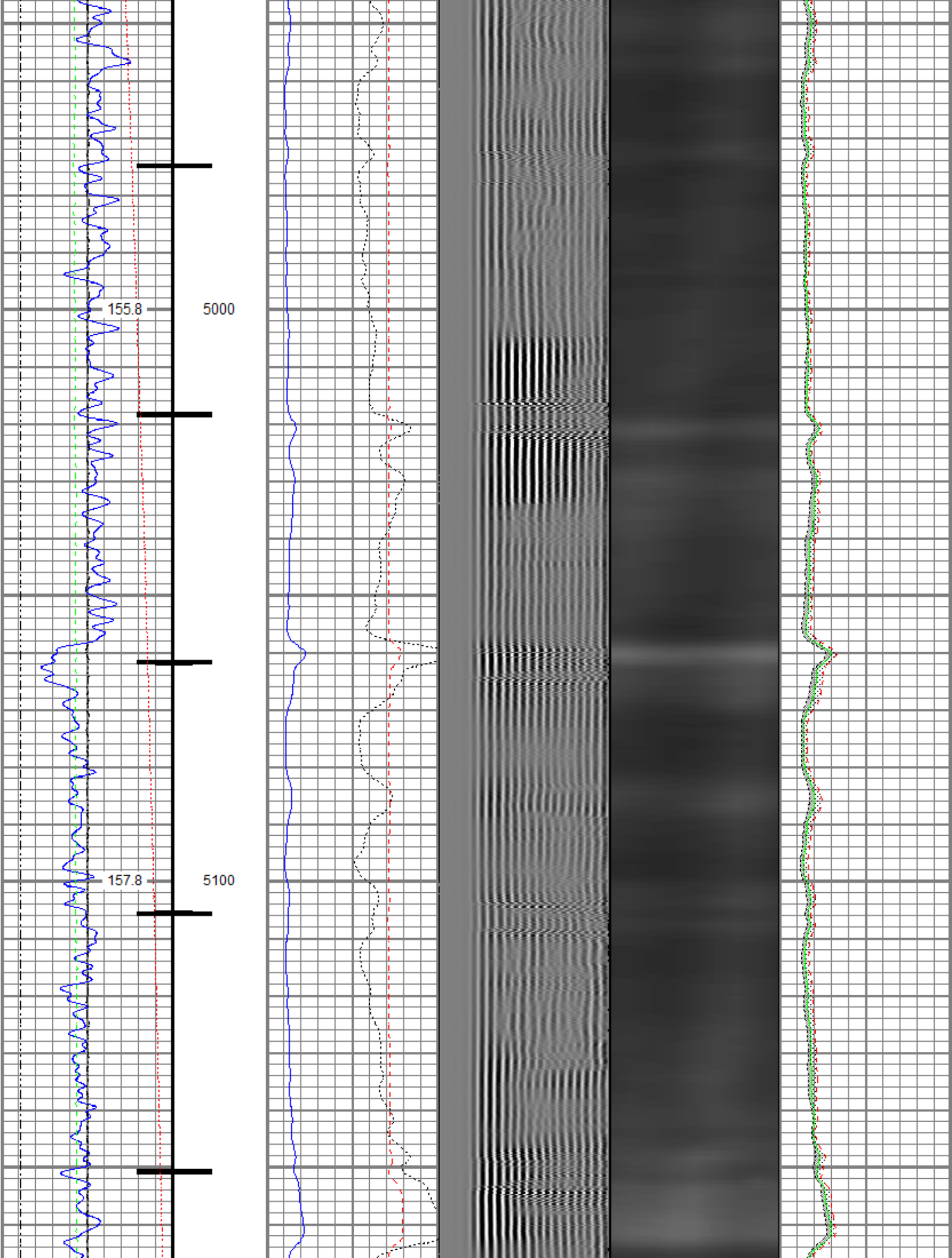


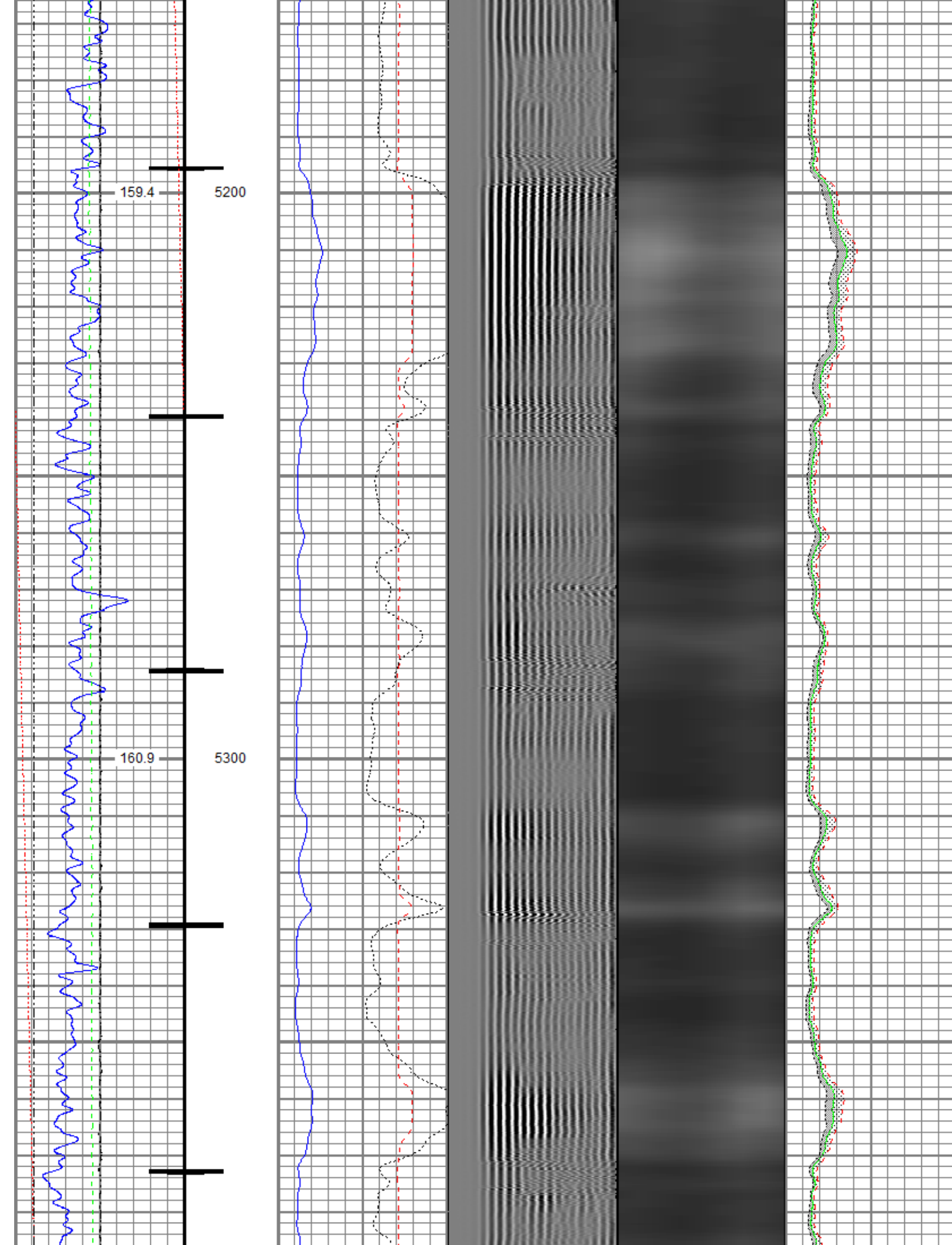


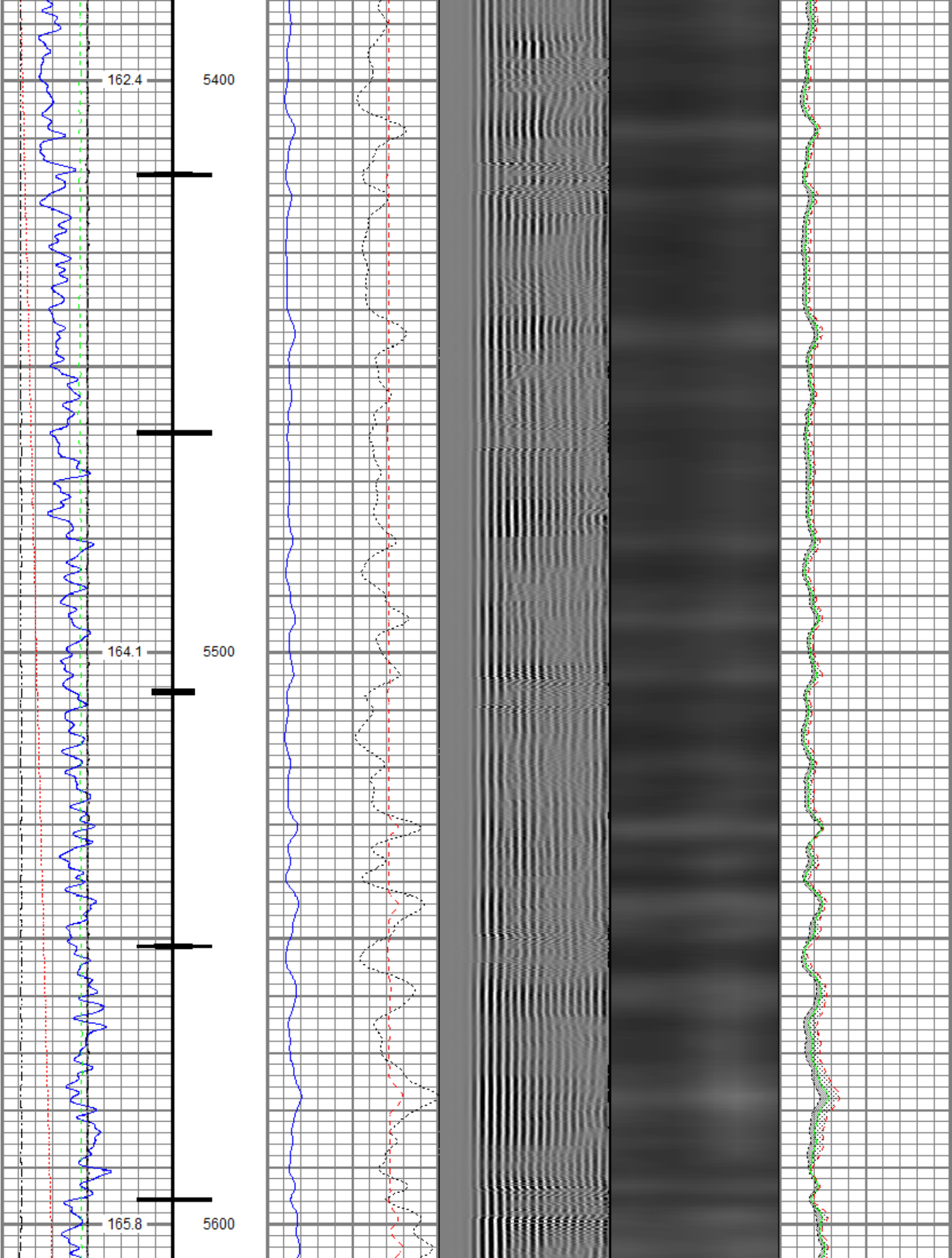


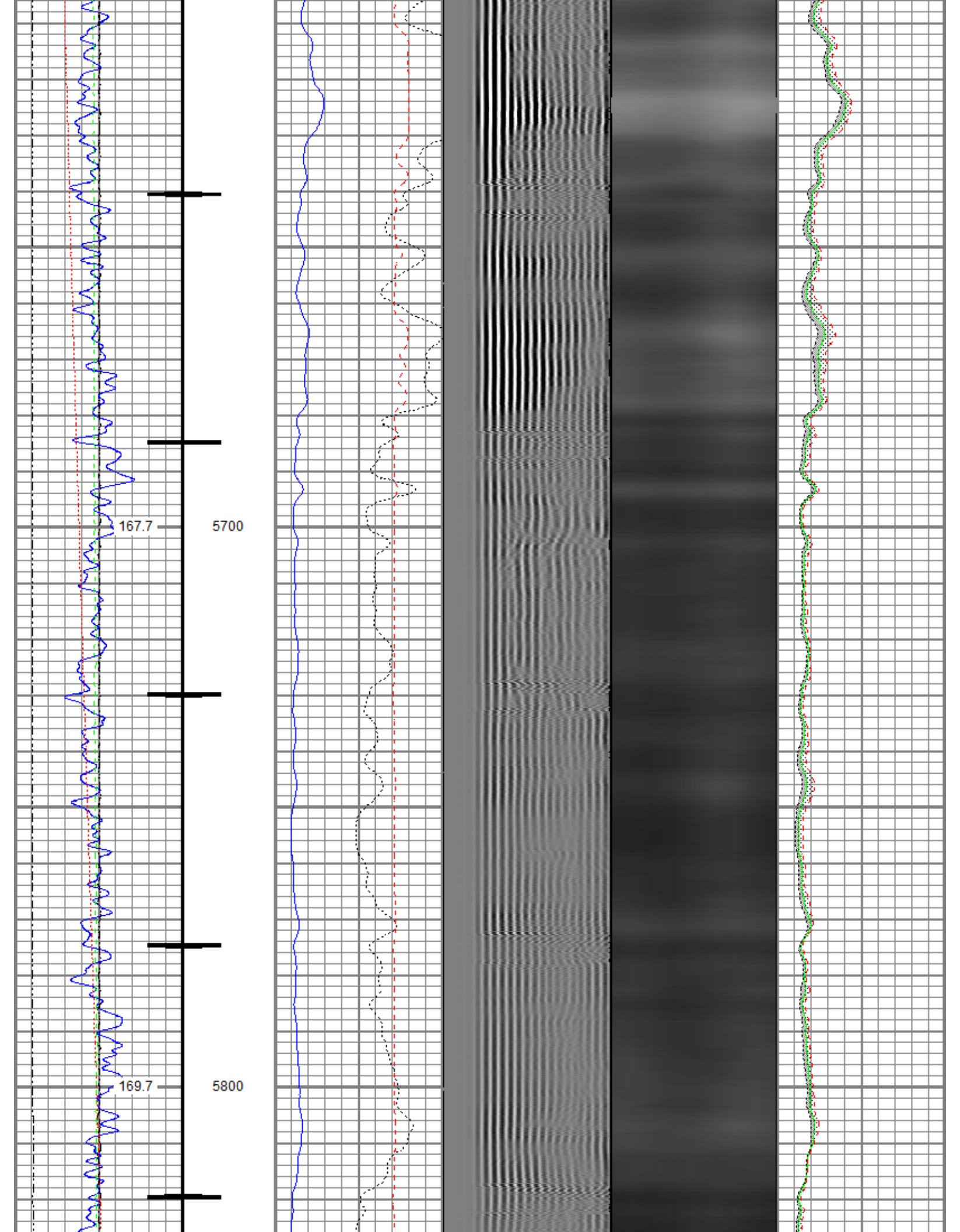


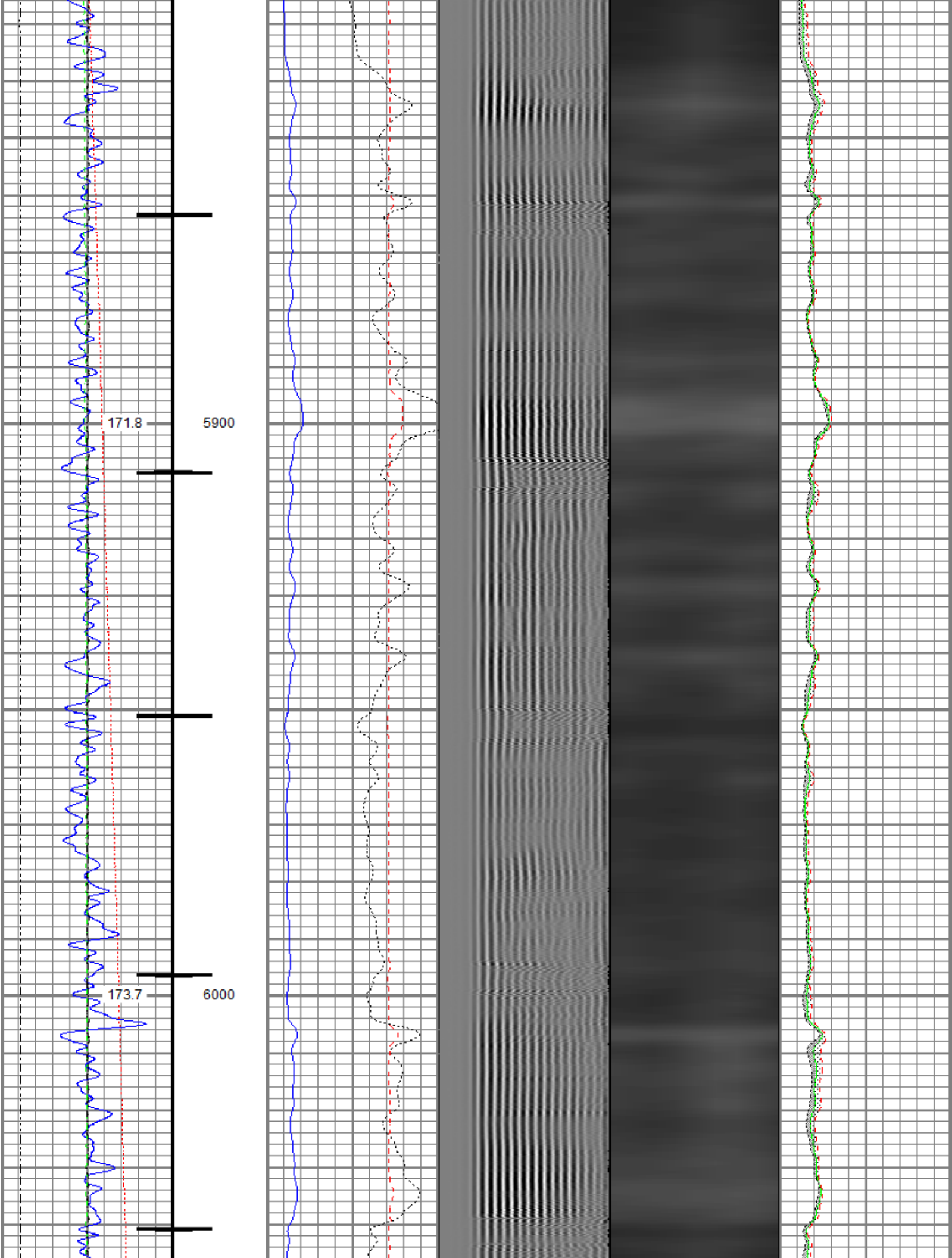


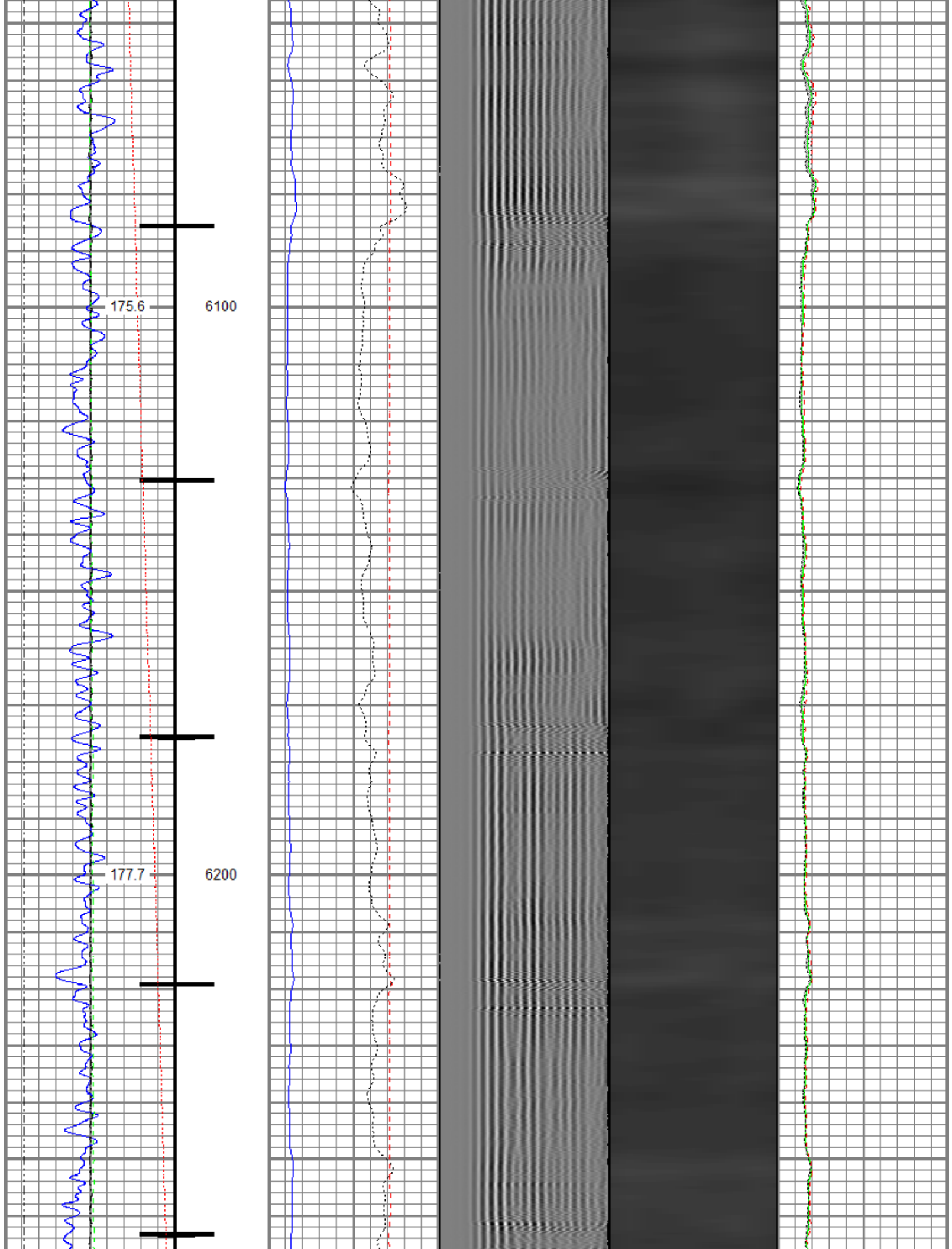


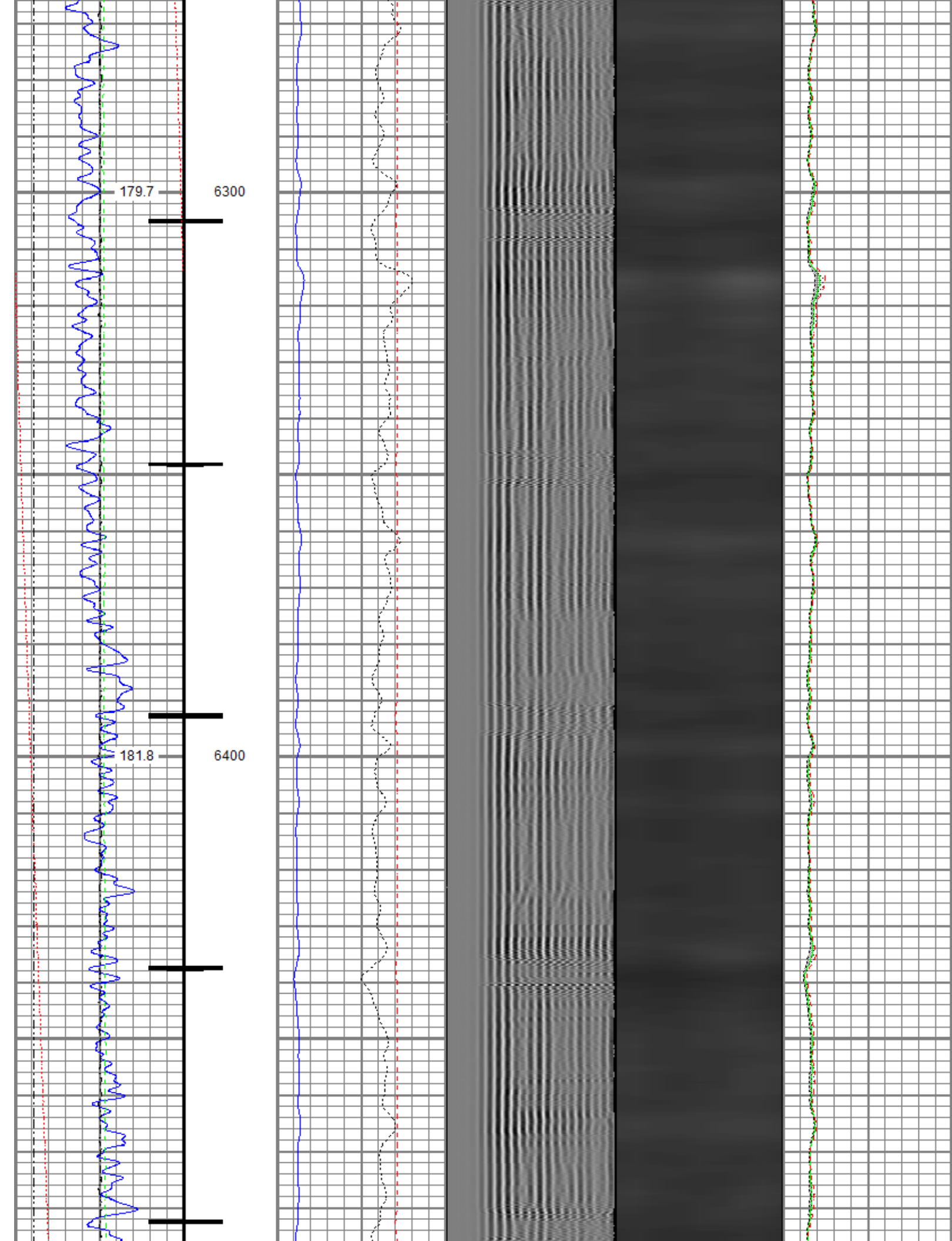


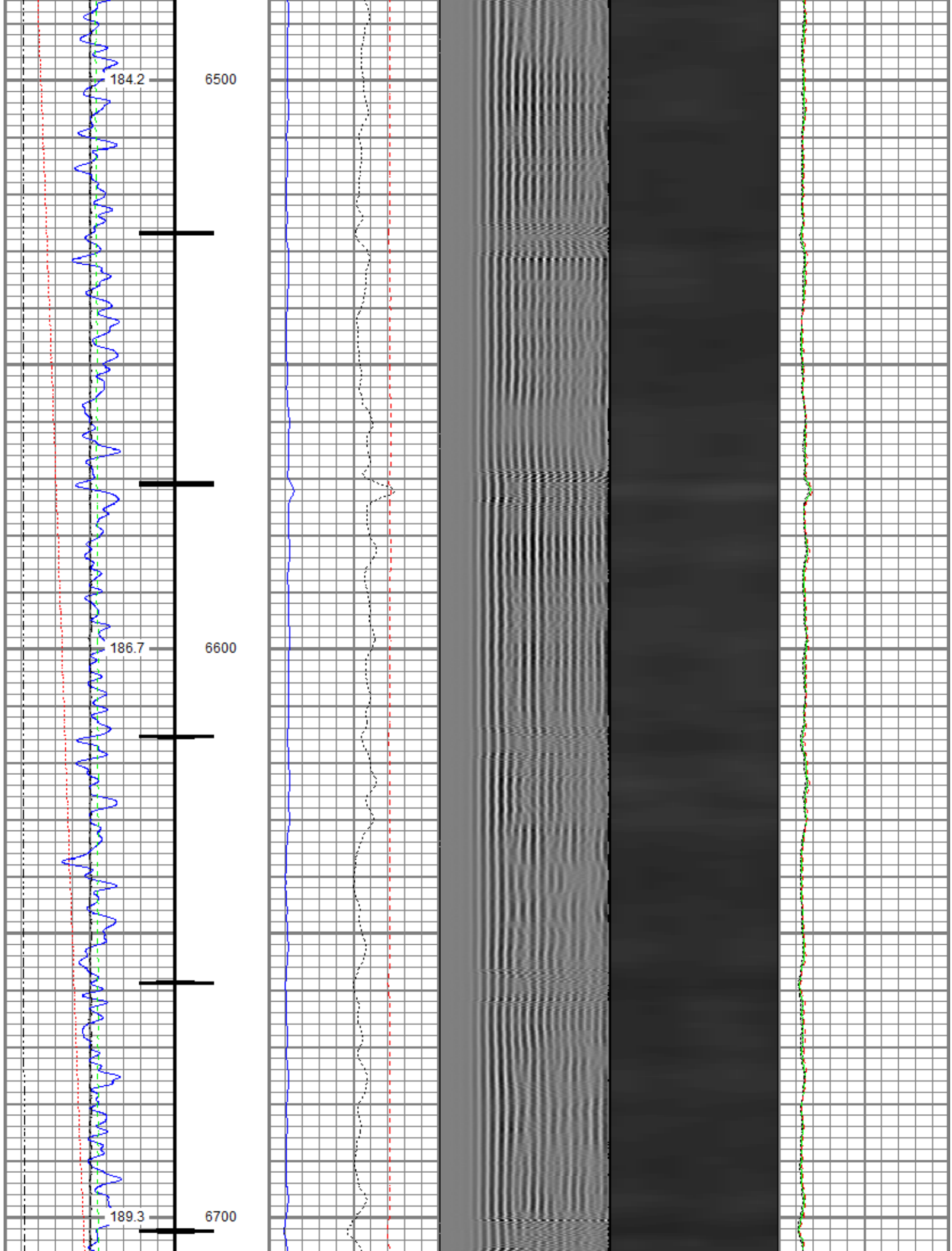


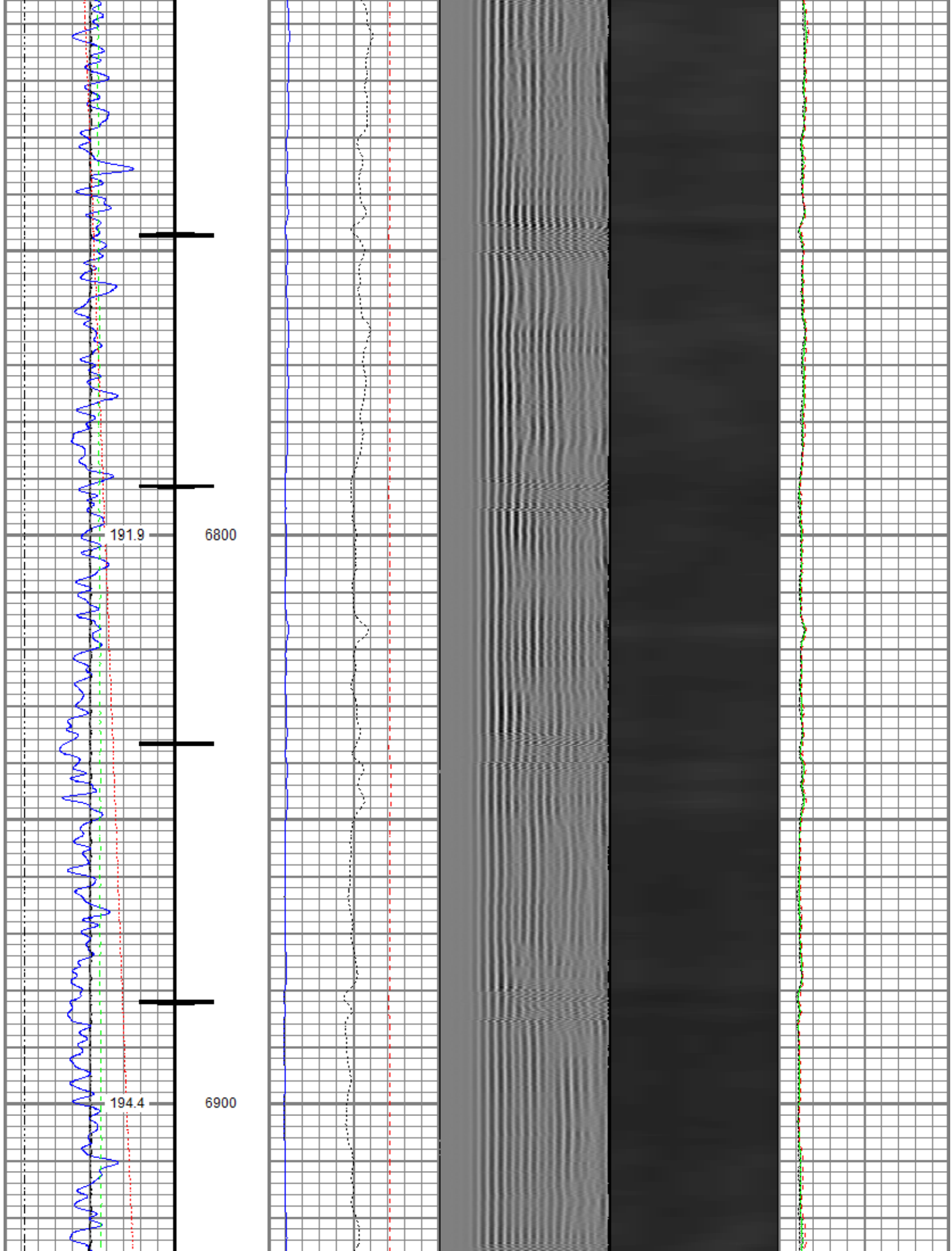


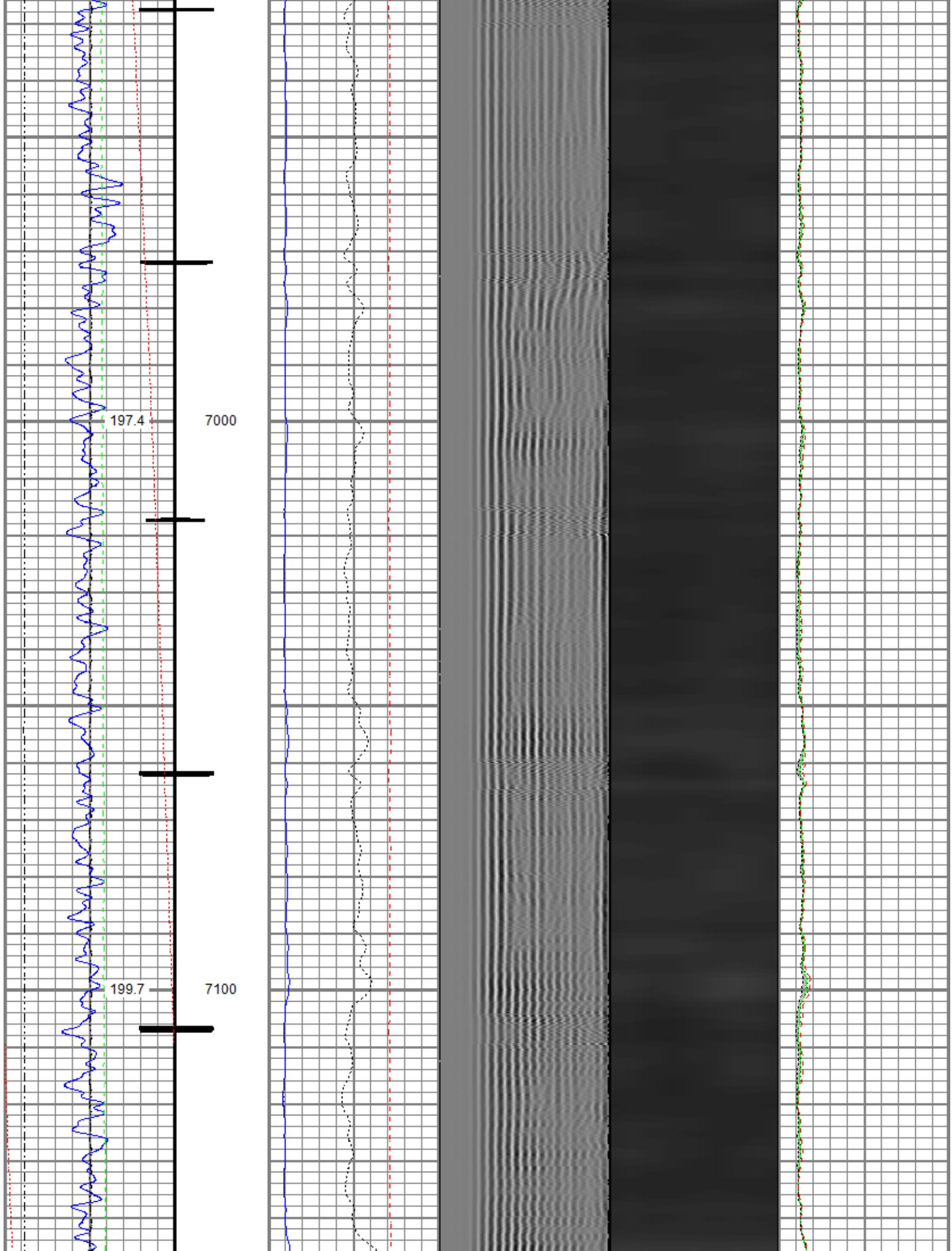


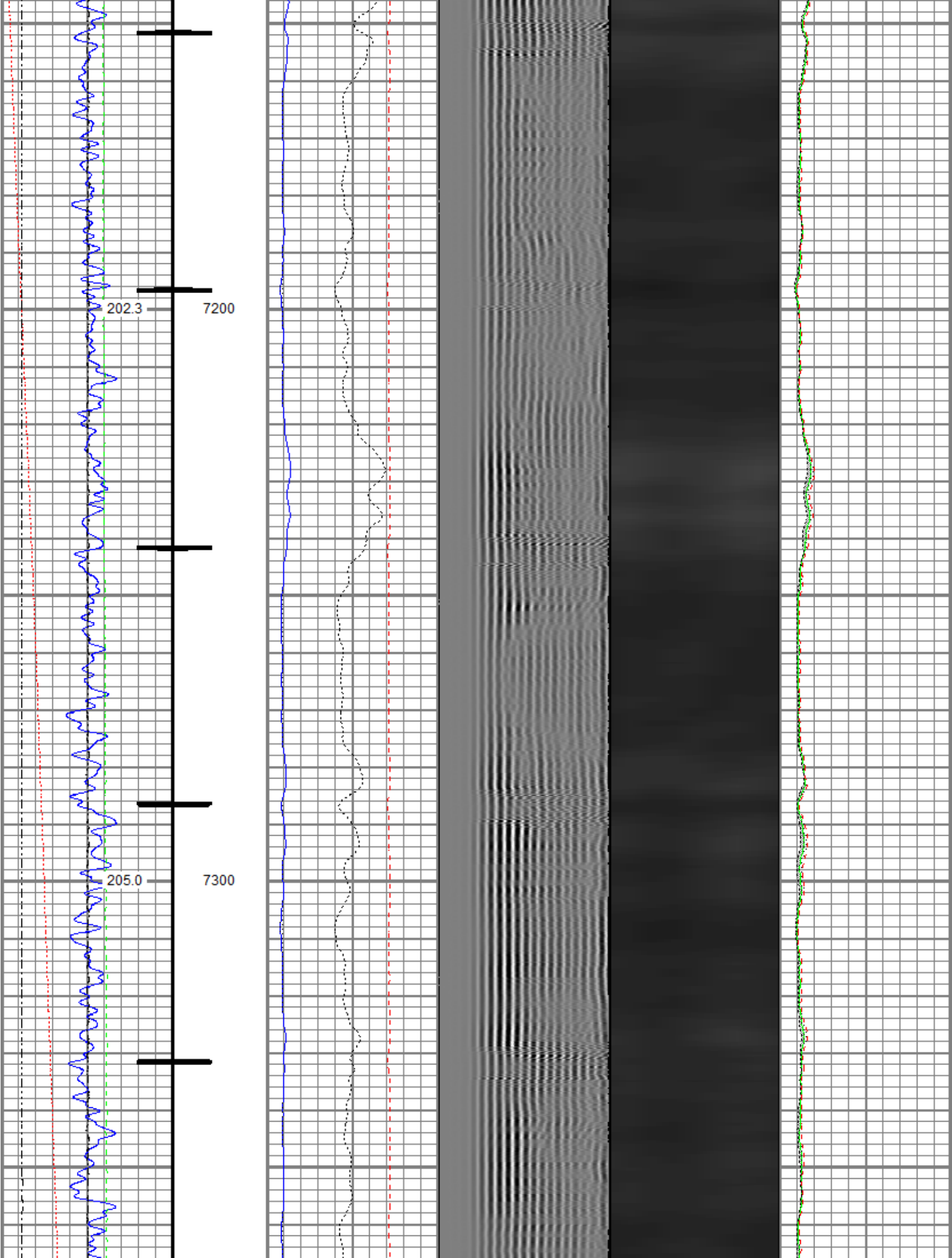


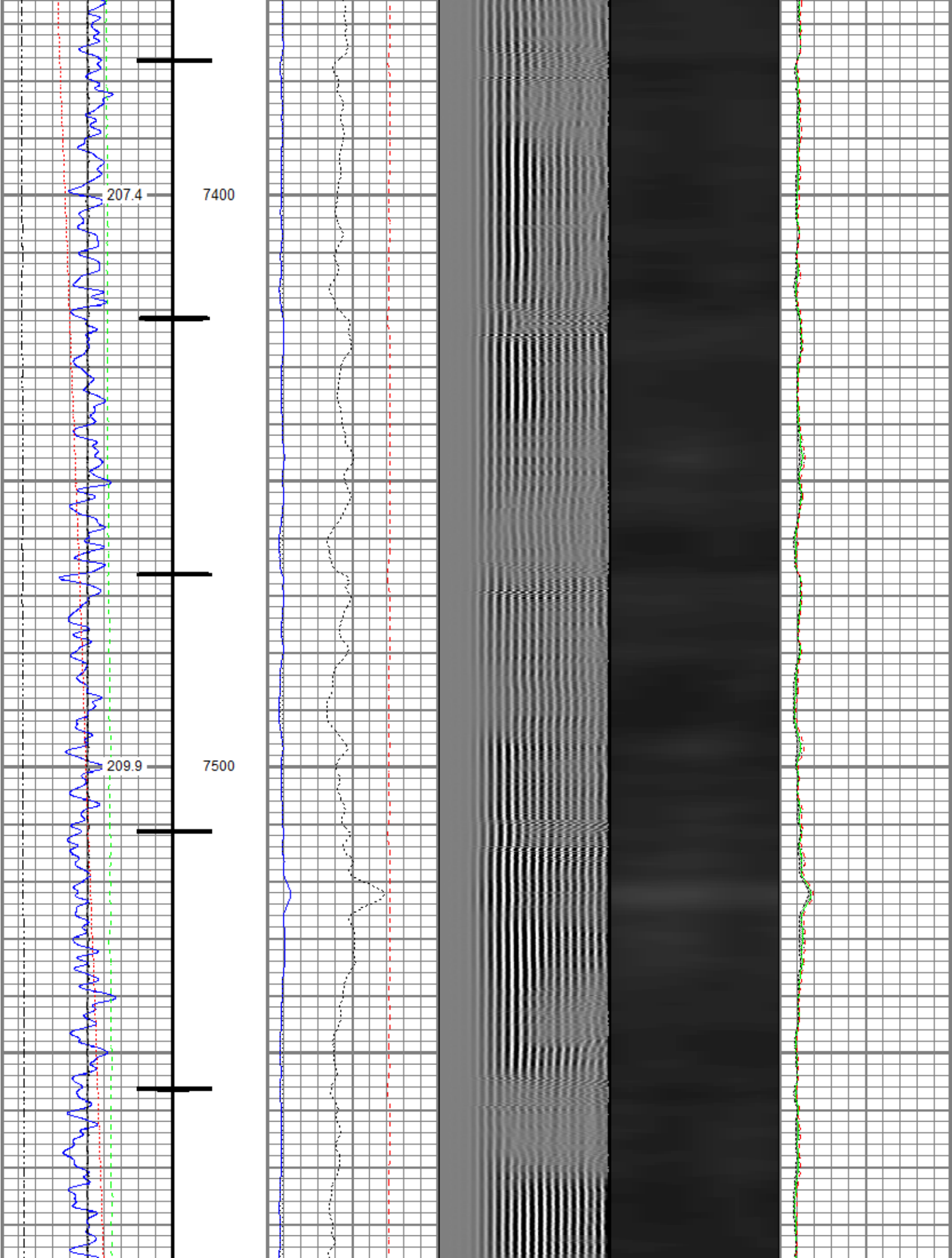


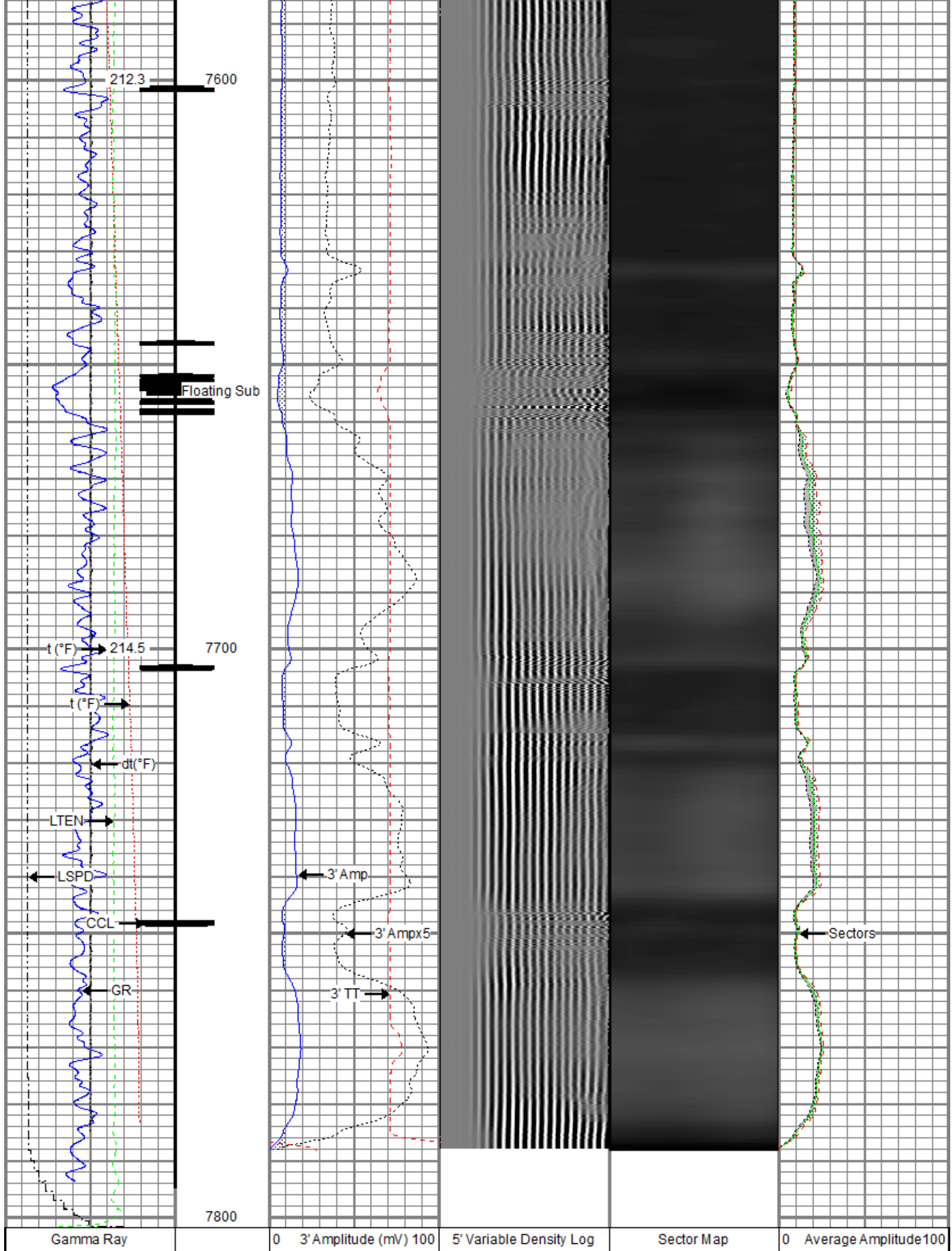












0 (GAPI) 120	3' Amplitude x 5	200 (usec) 1200	Minimum Amplitude
Casing Collar Locator	0 (mV) 20		0 100
0 Temperature (degF) 20	3' Travel Time		Maximum Amplitude
Line Speed	650 (usec) 150		0 100
-150 (ft/min) 150			
0 Line Tension (lb) 2000			
Differential Temperature			
-2 (degF) 2			

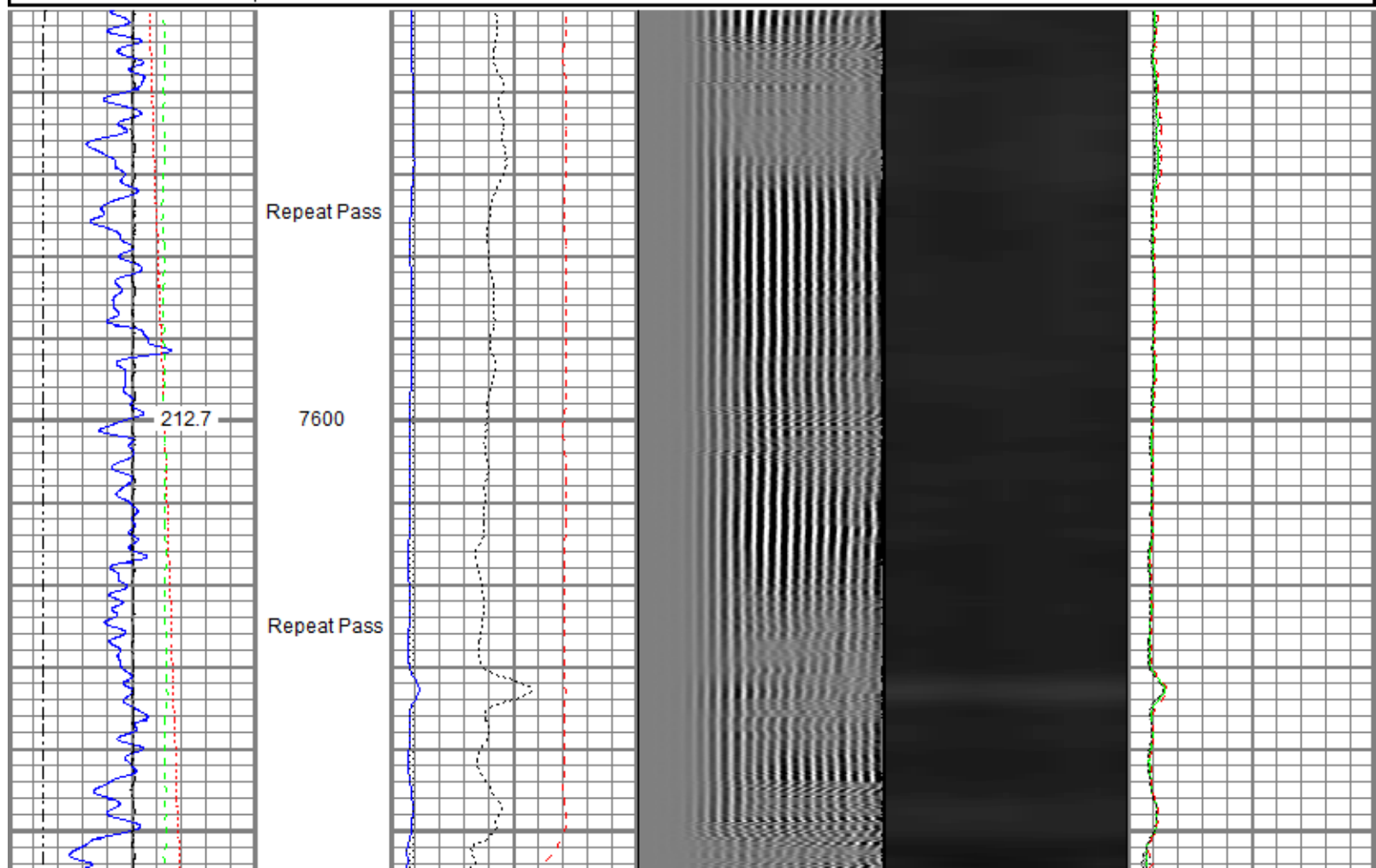


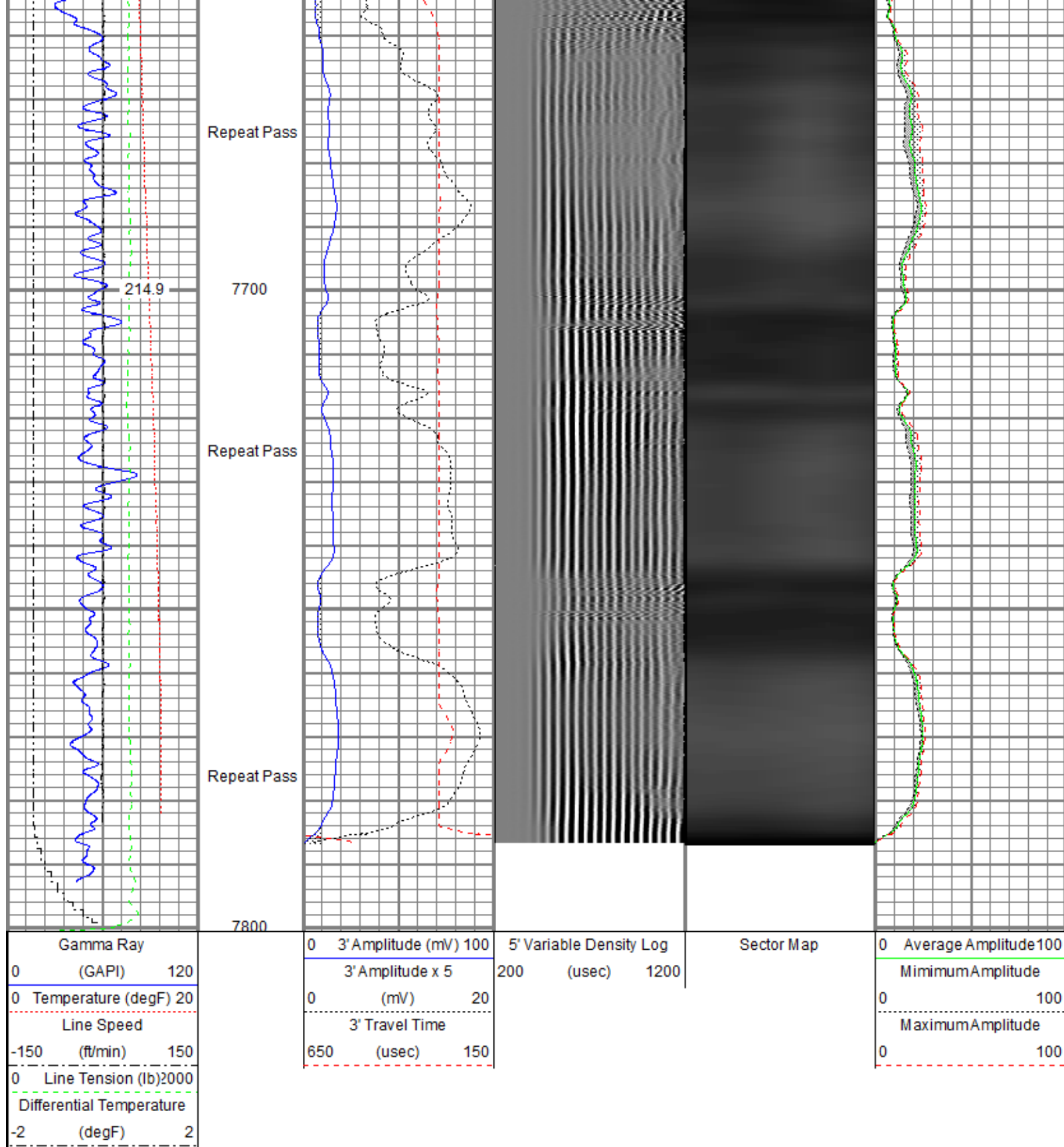
Repeat Pass

Recorded With 2000 PSI Surface Induced Pressure

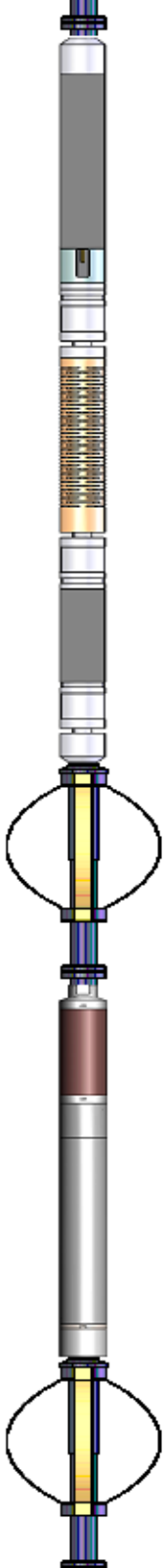
Database File clear creek_true ranch fee 202-2326h\clear creek_true ranch fee 202-2326h_rbl_11-27-18.db
Dataset Pathname RCBL/pass5
Presentation Format ros_radrii
Dataset Creation Tue Nov 27 14:08:38 2018
Charted by Depth in Feet scaled 1:240

Gamma Ray	0 3' Amplitude (mV) 100	5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120	3' Amplitude x 5	200 (usec) 1200		Minimum Amplitude
0 Temperature (degF) 20	0 (mV) 20			0 100
Line Speed	3' Travel Time			Maximum Amplitude
-150 (ft/min) 150	650 (usec) 150			0 100
0 Line Tension (lb) 2000				
Differential Temperature				
-2 (degF) 2				





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

TEMP	17.04					
WVFS8	14.81		Probe Radii-2750 RBT (120855) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS7	14.81					
WVFS6	14.81					
WVFS5	14.81					
WVFS4	14.81					
WVFS3	14.81					
WVFS2	14.81					
WVFS1	14.81					
WVFCAL	14.81					
WVF3FT	14.81					
WVF5FT	13.81					
HEADVOLT	10.56					
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	6.80					
CCL\$1	6.80					
GR	5.46					
		Probe GR-CCL-2750 6PB (FW1810-044) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00	
		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00	
Dataset: Clear Creek_True Ranch Fee 202-2326H_RBL_11-27-18.db: field/well/RCBL/pass7 Total length: 23.86 ft Total weight: 223.60 lb O.D.: 2.75 in						

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\Clear Creek_True Ranch Fee 202-2326H\Clear Creek_True Ranch Fee 202-2326H_RBL_11-27-18
Dataset Pathname	RCBL/pass7
Dataset Creation	Tue Nov 27 14:12:41 2018
Gamma Ray Calibration Report	
Serial Number:	FW1810-044
Tool Model:	2750 6PB

Performed: Tue Nov 06 15:24:34 2018

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: 5.500 in

Calibration Depth: -1.084 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.509	0.800	71.921	139.992	0.647
CAL	0.006	0.582				
5'	0.000	0.475	0.800	71.921	149.743	0.744
SUM						
S1	0.001	0.473	0.000	100.000	211.858	-0.211
S2	0.001	0.471	0.000	100.000	212.859	-0.212
S3	0.001	0.493	0.000	100.000	203.388	-0.228
S4	0.001	0.538	0.000	100.000	186.372	-0.218
S5	0.001	0.582	0.000	100.000	172.042	-0.197
S6	0.001	0.585	0.000	100.000	171.381	-0.209
S7	0.001	0.544	0.000	100.000	184.157	-0.206
S8	0.001	0.496	0.000	100.000	202.211	-0.227

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.582	1.000	0.000

Air Zero Calibration, performed Tue Nov 27 11:00:47 2018:

	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: Mon Oct 01 11:32:15 2018

Reference	Reading
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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			



Company	Clear Creek Resource Partners
Well	True Ranch Fee 202-2326H
Field	Wildcat
County	Weld
State	Colorado