



County Larimer State Colorado

Permanent Datum	Ground Level	Elevation	4887
Log Measured From	Kelly Bushing	20 FT	

Elevation

Date	09-SEP-2016
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Run Number	Two
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Depth Logger	7008 FT
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Top Log Interval	Surface
3	

Open-End Quiz	Water
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Density / Viscosity	8.34 lbm/ft ³
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Estimated Cement Top	Surface
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Time Logger on Bottom	18:00
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Location	Fort Lupton.
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Witnessed By	Kent Everett
Witnessed By	Chad Dyer

Borehole Record

Run Number	Bit	From	To
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Surface Casing	9 5/8	36
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intermediate #2		
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Comments

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint Top at 6544 FT
Adjusted -6 FT to correlate with Marker Joint Top
Gauge Ring/Junk Basket ran to 7306 FT with no debris
Log ran from as deep as possible in heel to surface
Log ran with 2800 PSI surface induced pressure
Logging tools were clean and free of any debris upon completion of operations

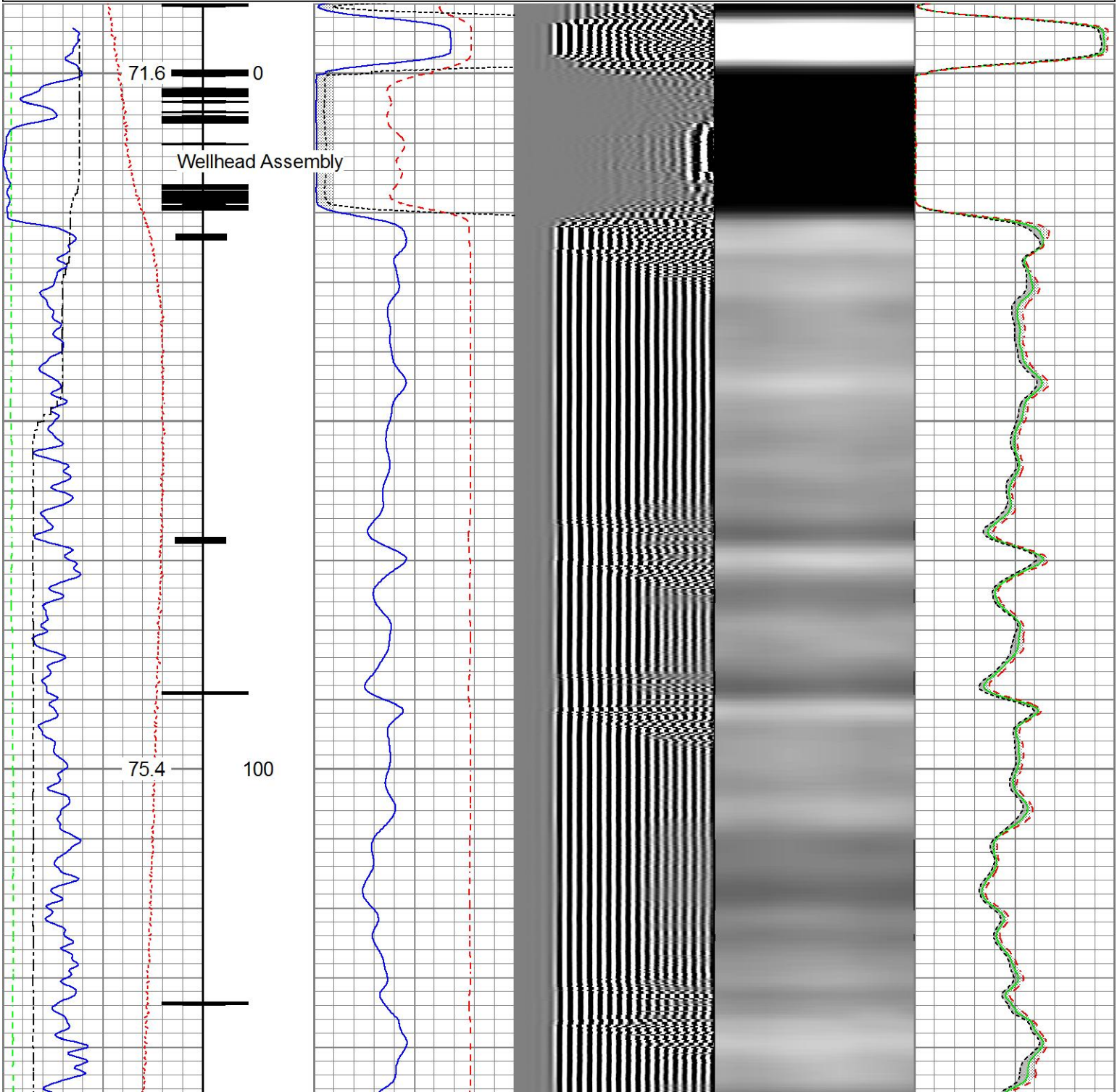
Thank you for choosing Reliance Oilfield Services, LLC!!

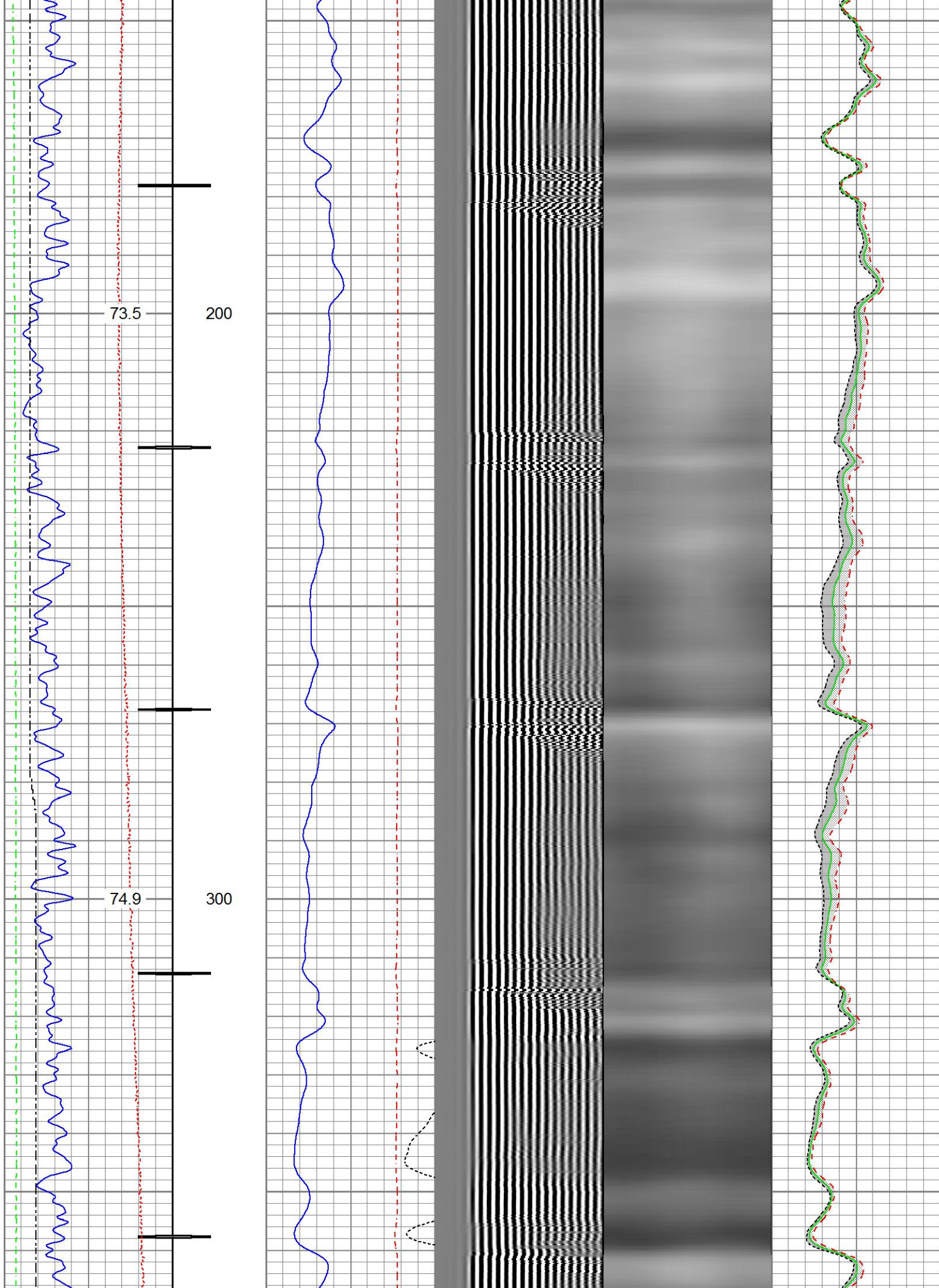
Main Pass

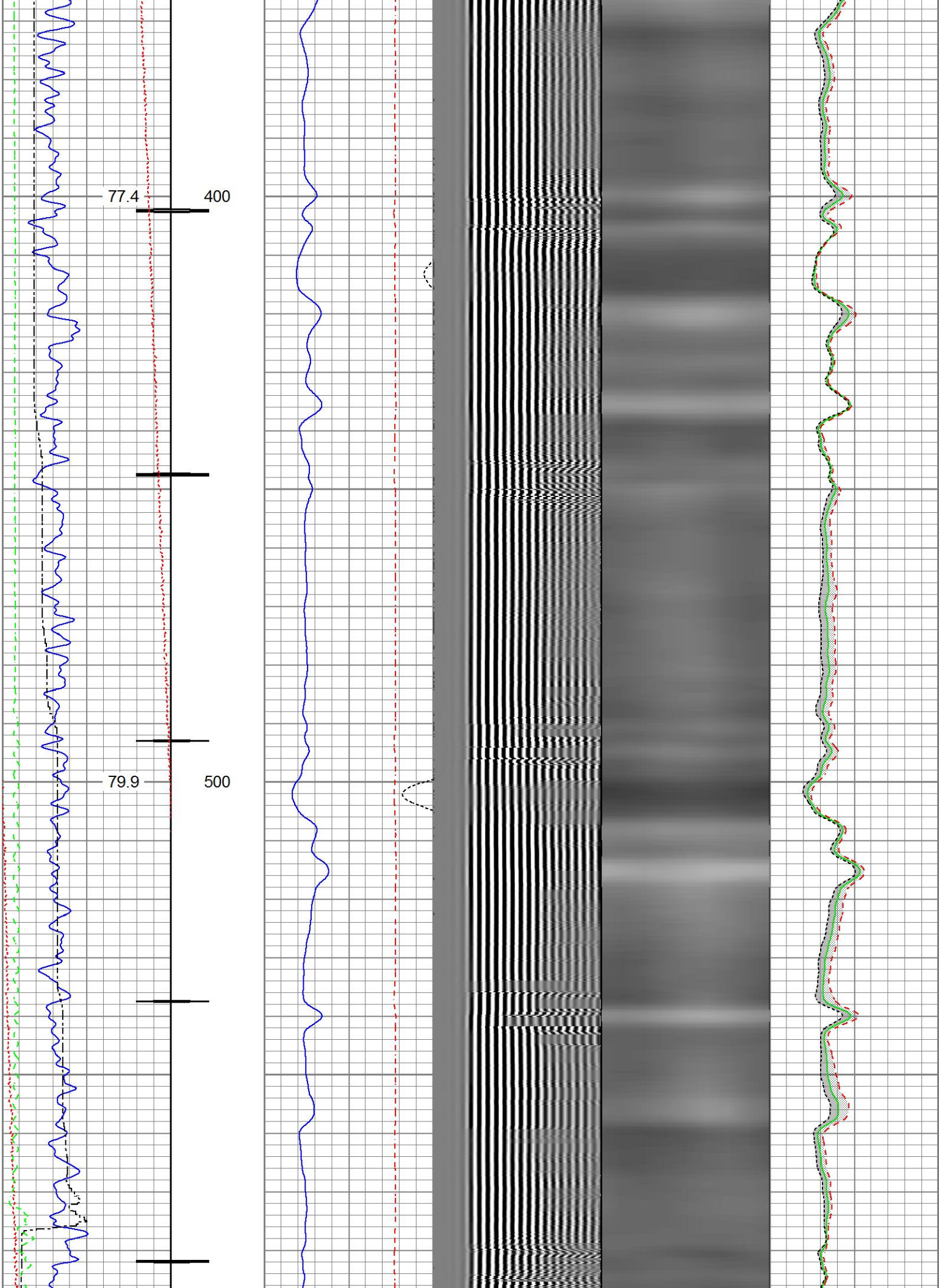
Recorded with 2800 PSI Surface Induced Pressure

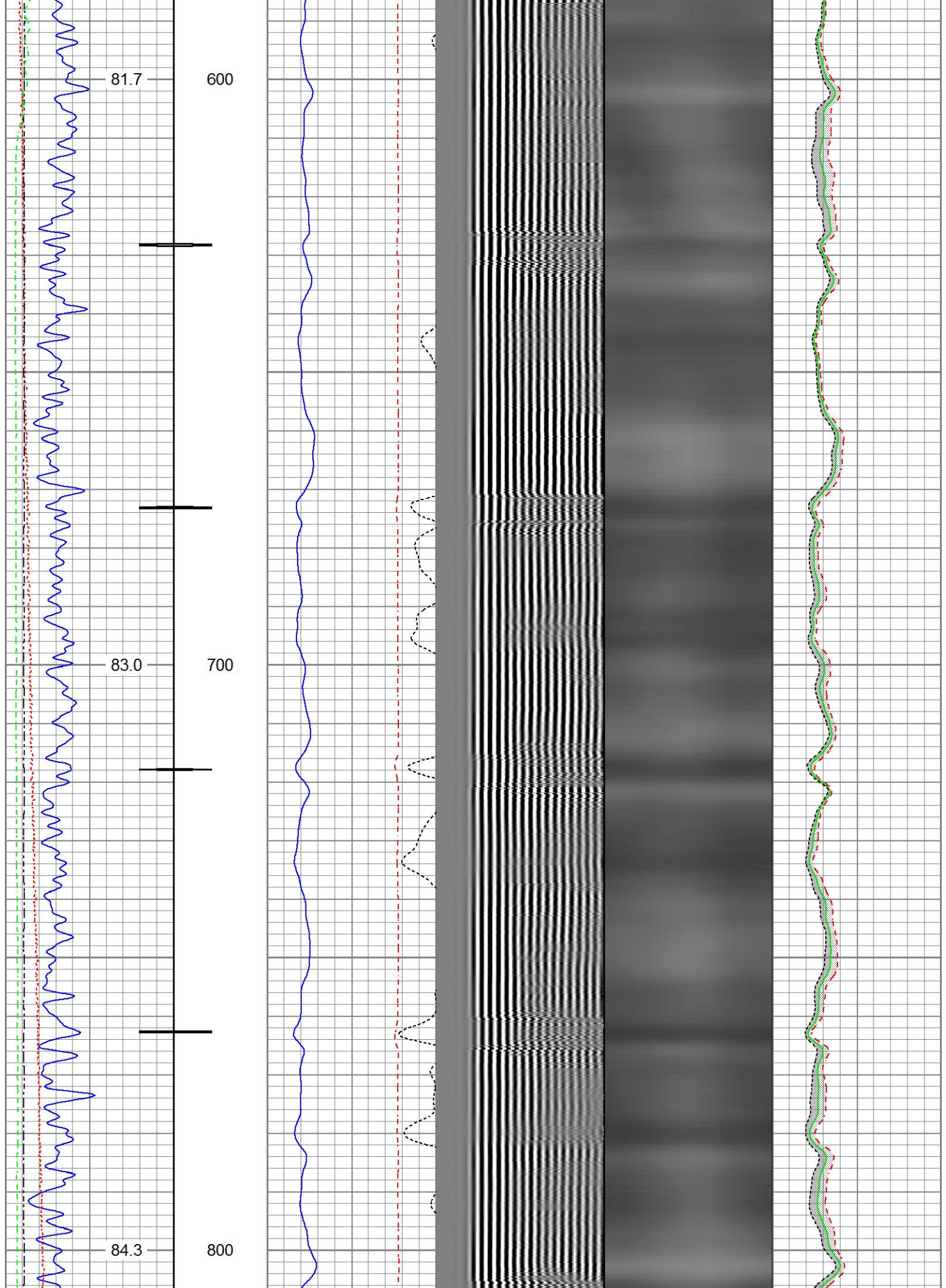


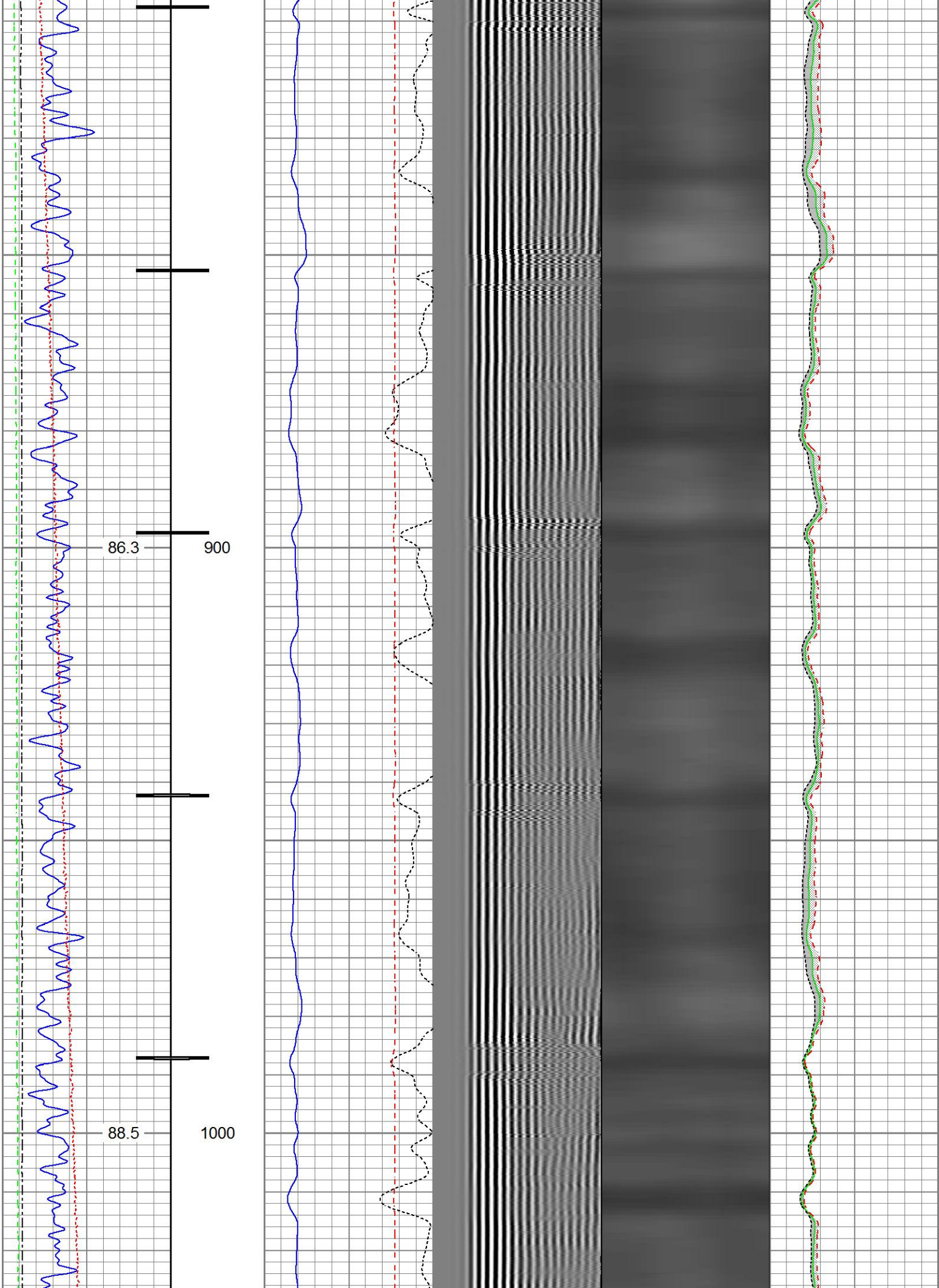
Gamma Ray			3' Amplitude			5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI)	120	0	(mV)	100	200	1200			0	100
Casing Collar Locator			3' Amplitude x 5							Minimum Amplitude	
Temperature			0 (mV) 20							0 100	
0 (degF) 20			3' Travel Time							Maximum Amplitude	
Line Speed			650 (usec)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

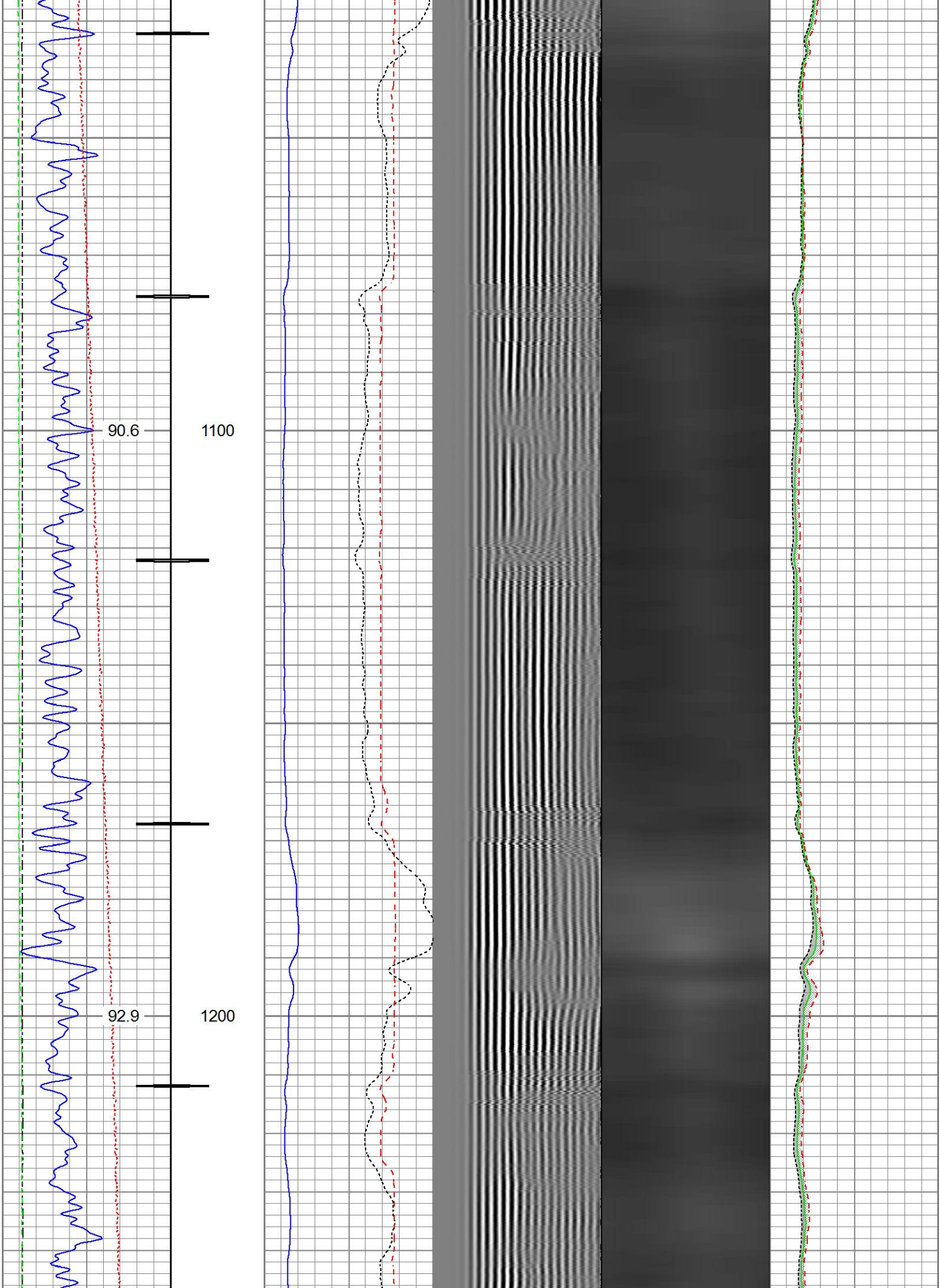


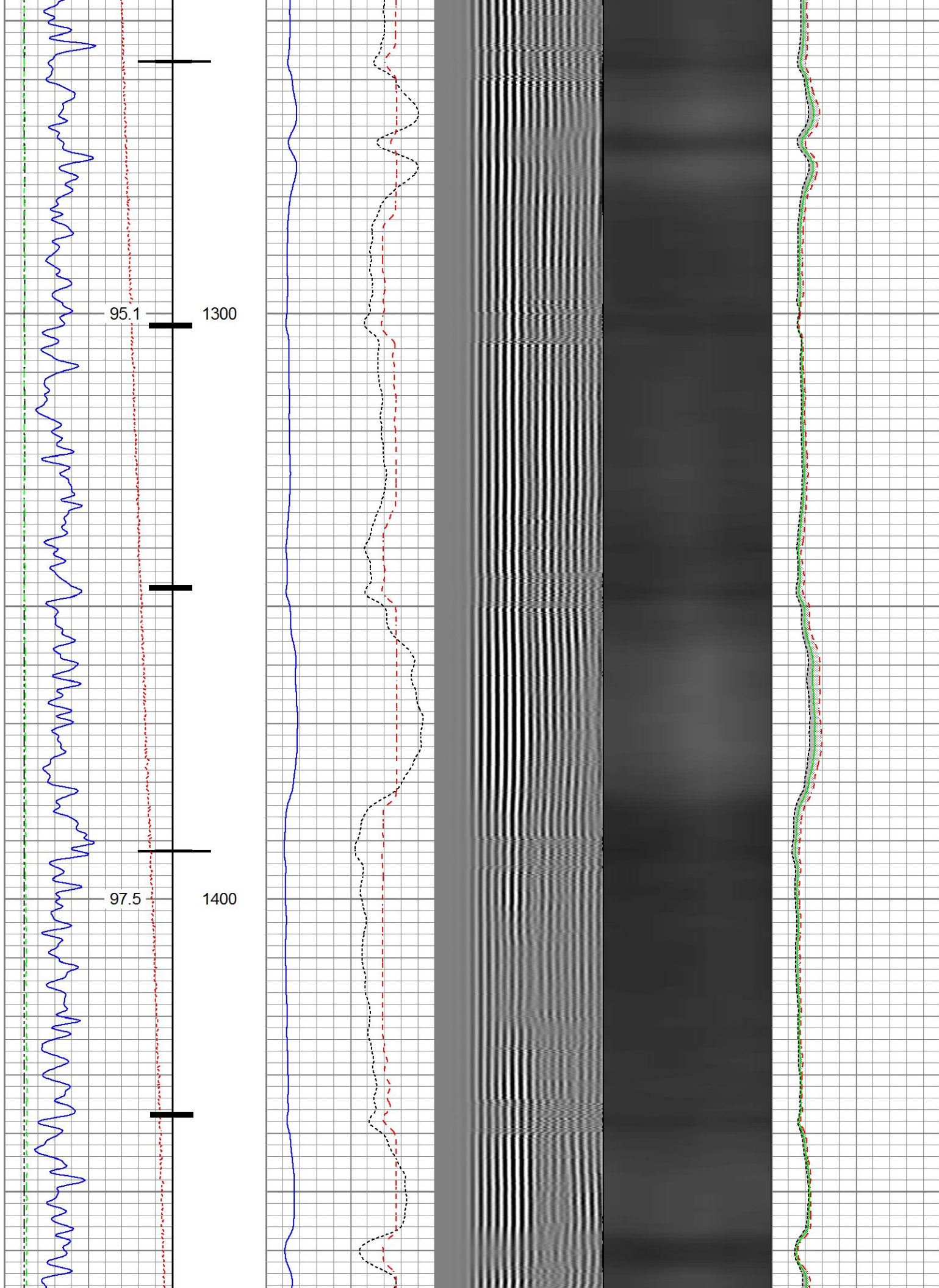


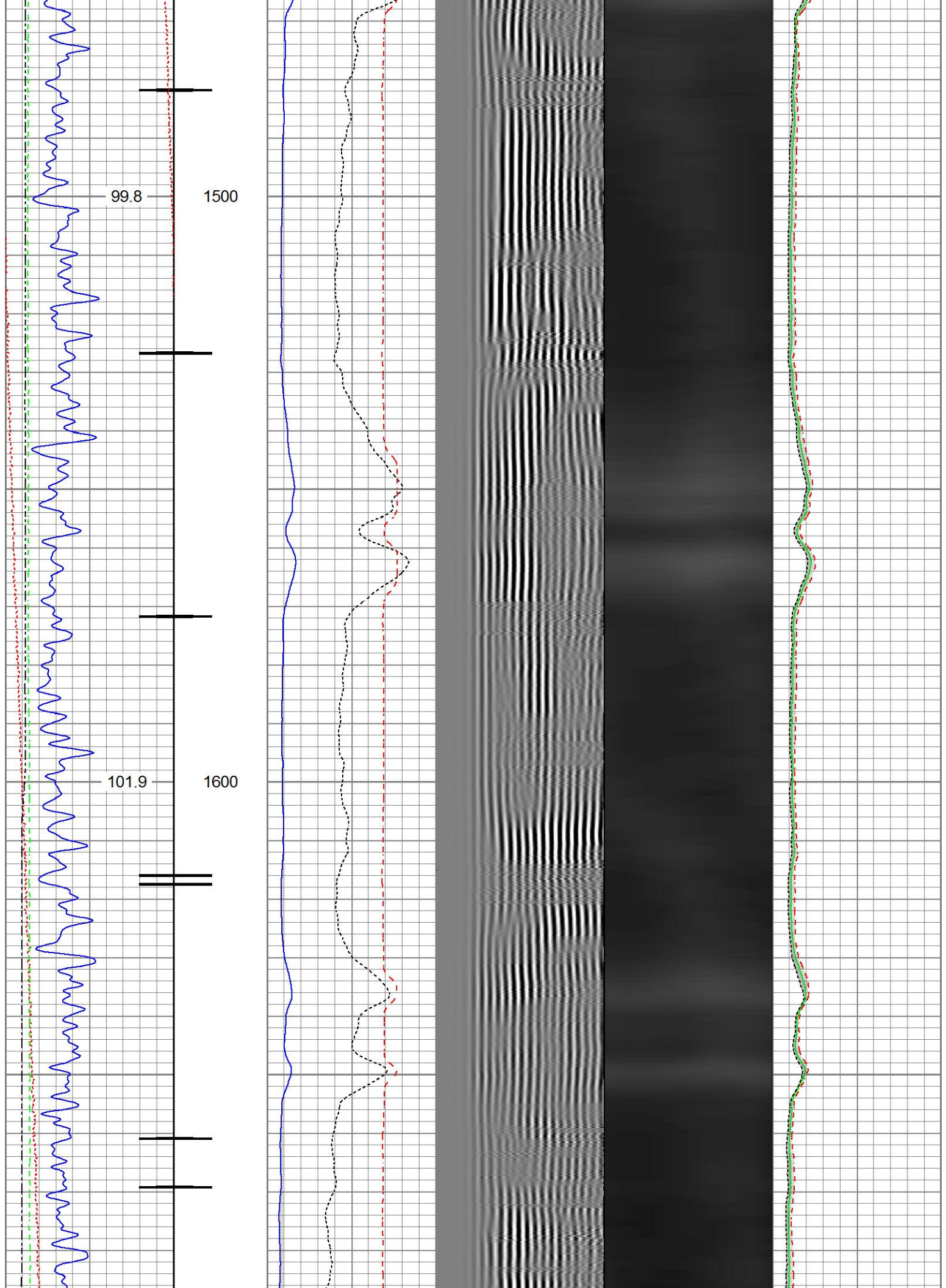


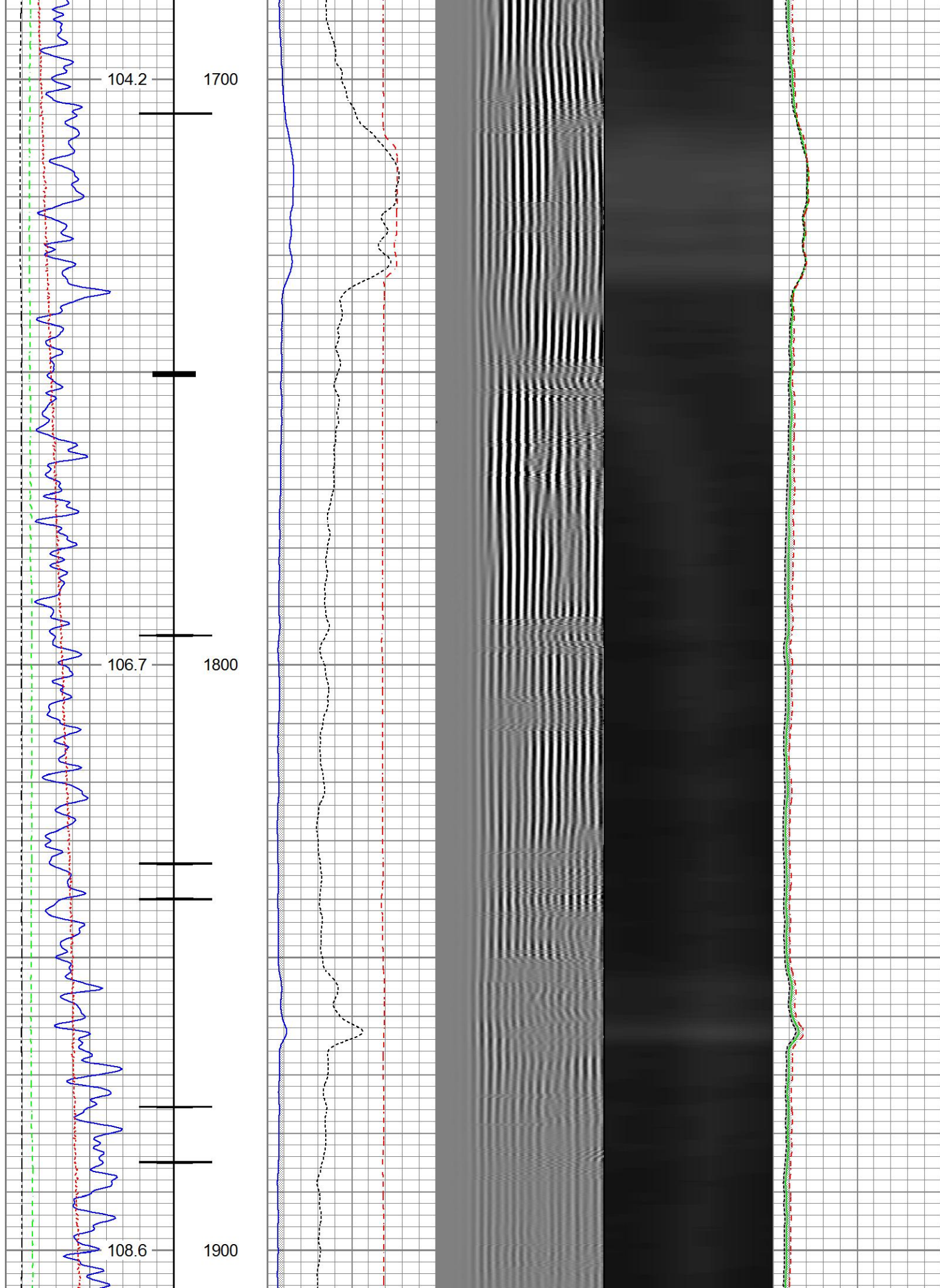


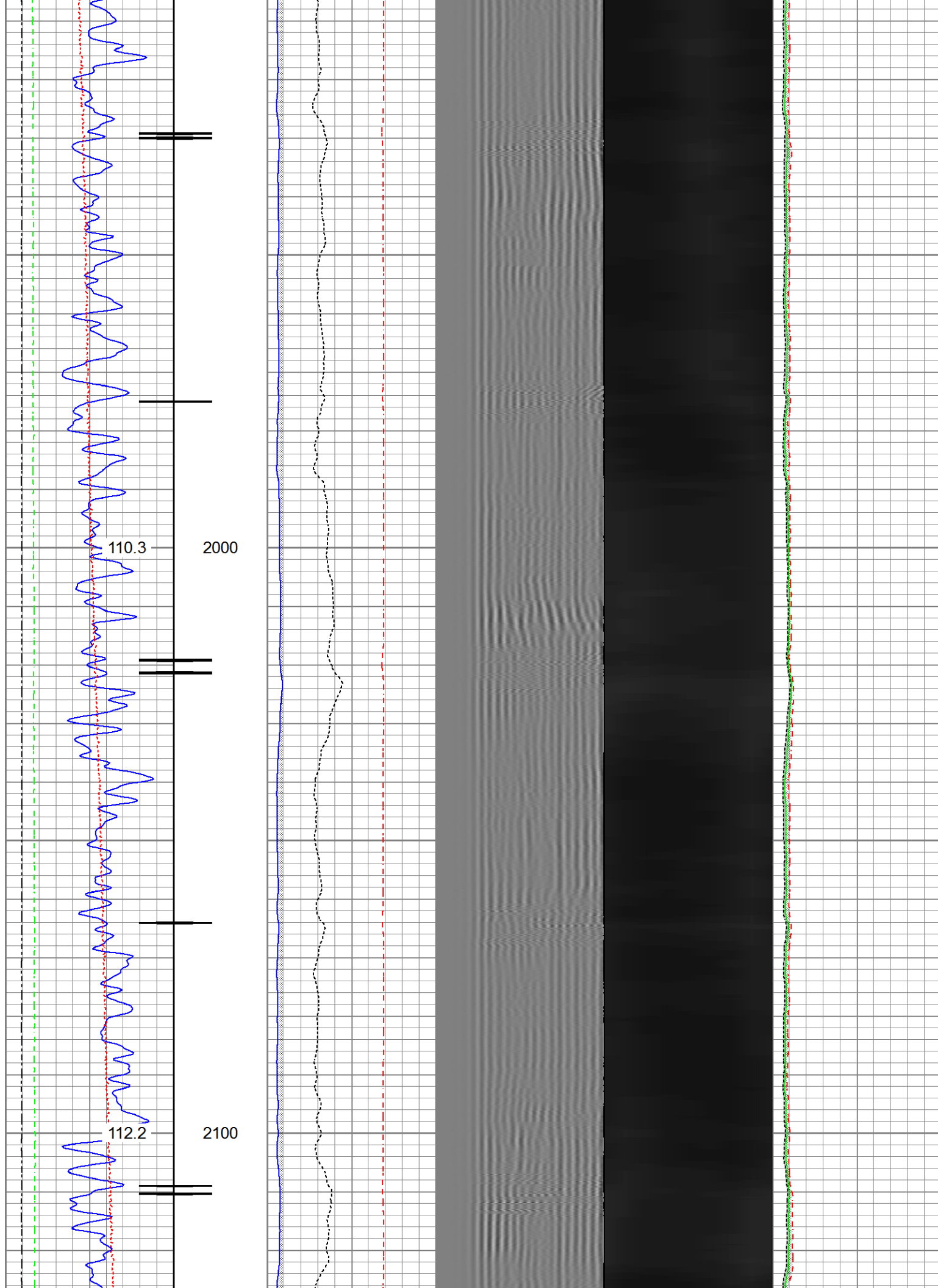


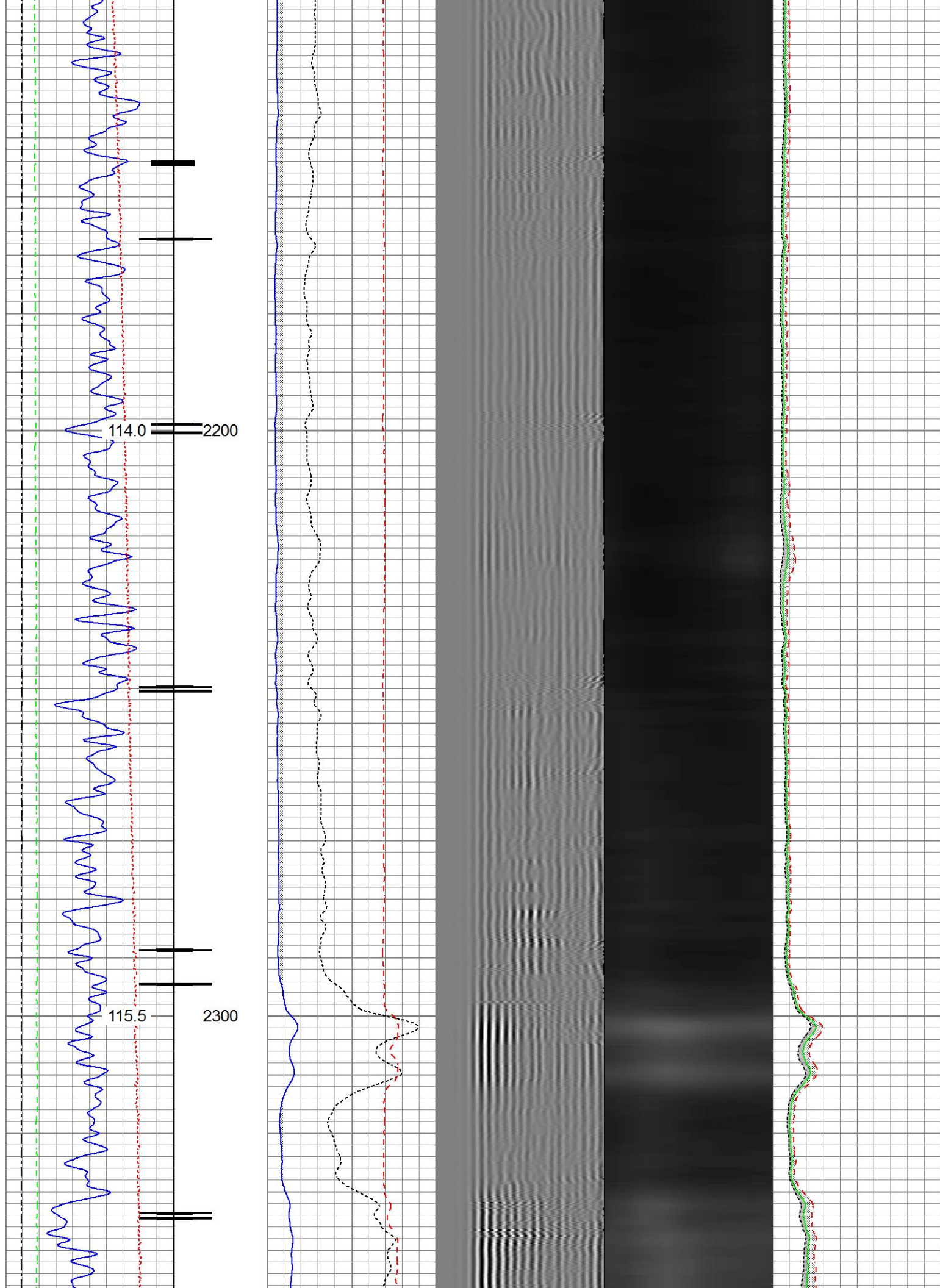


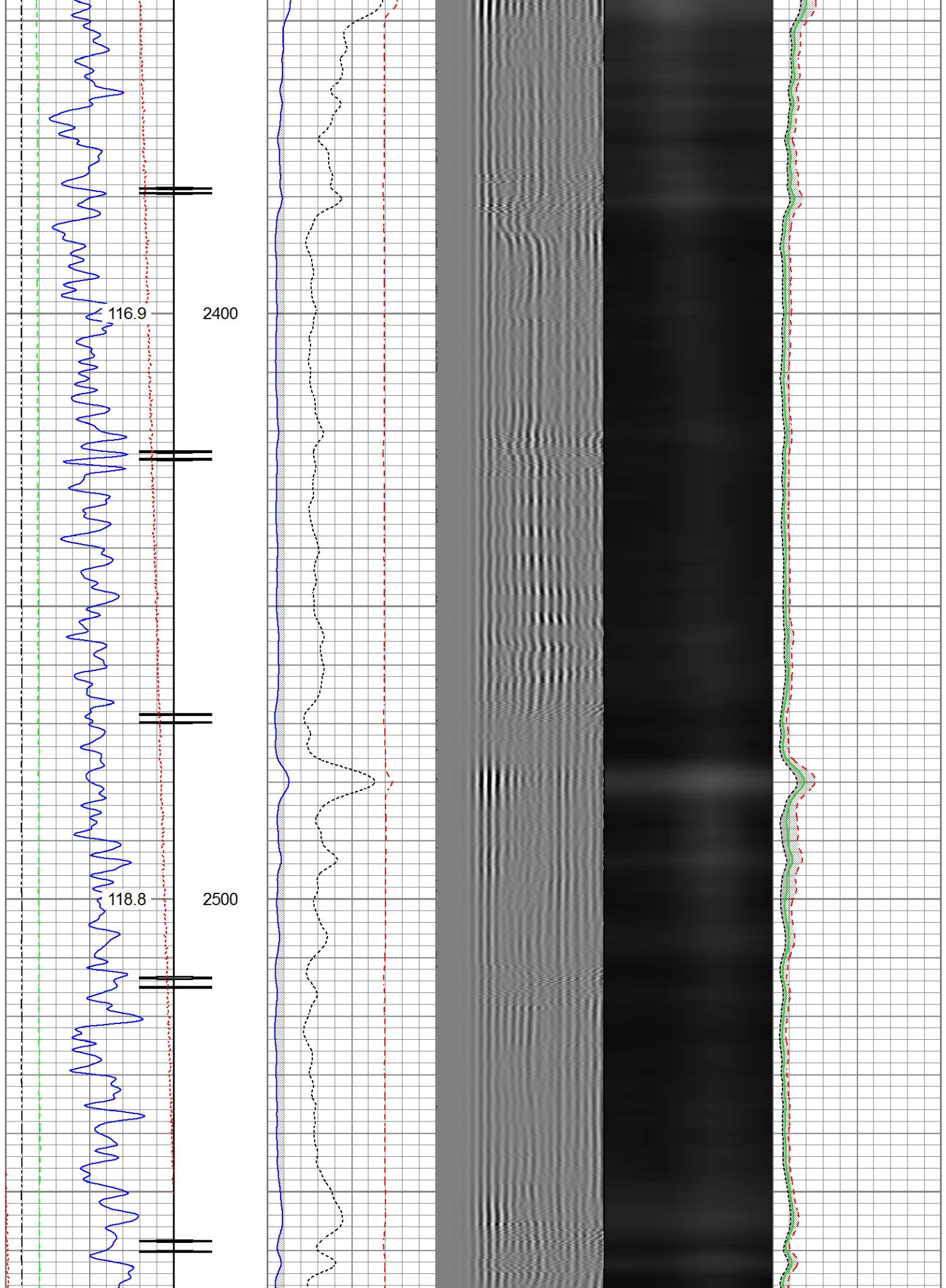


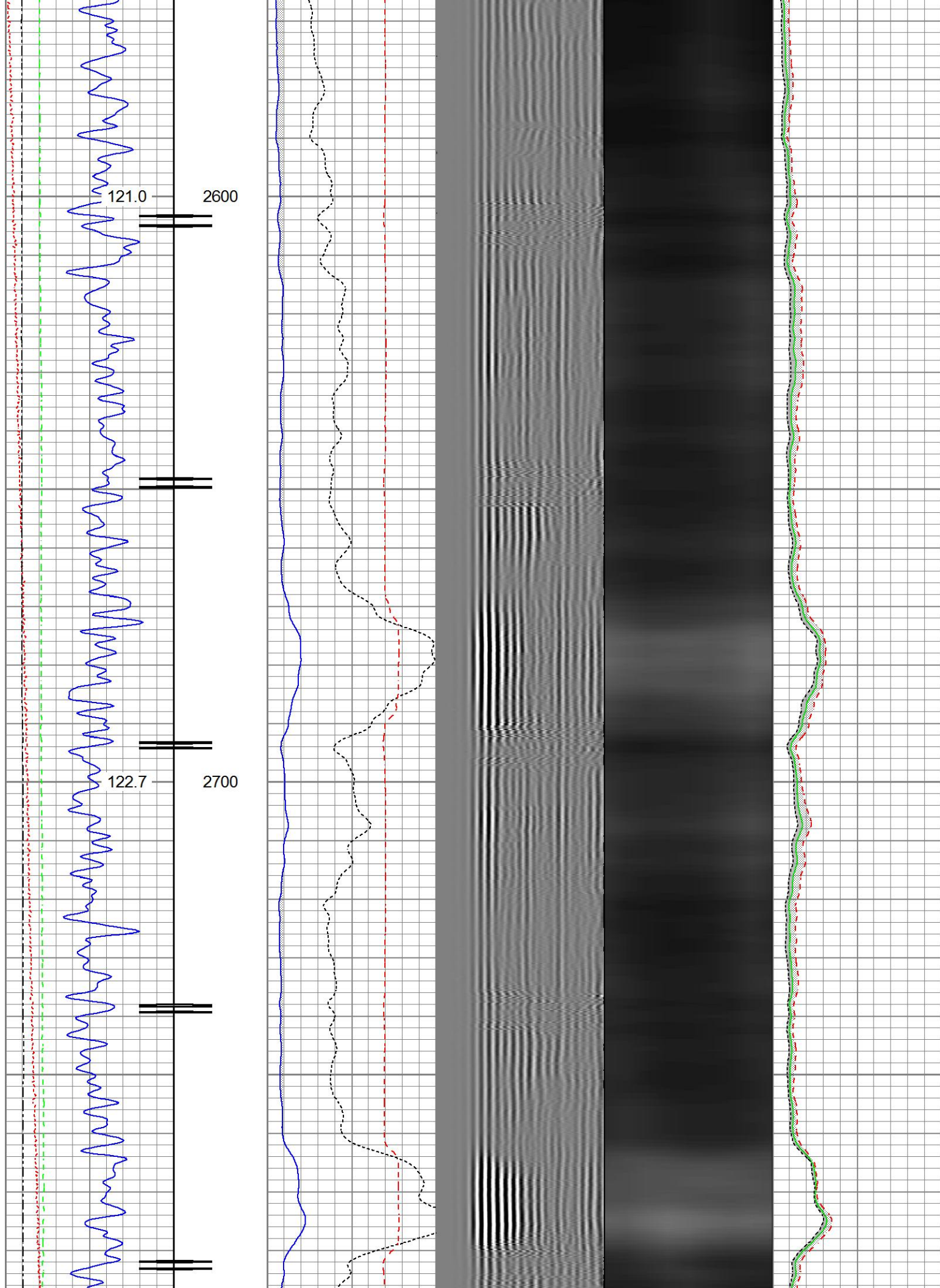


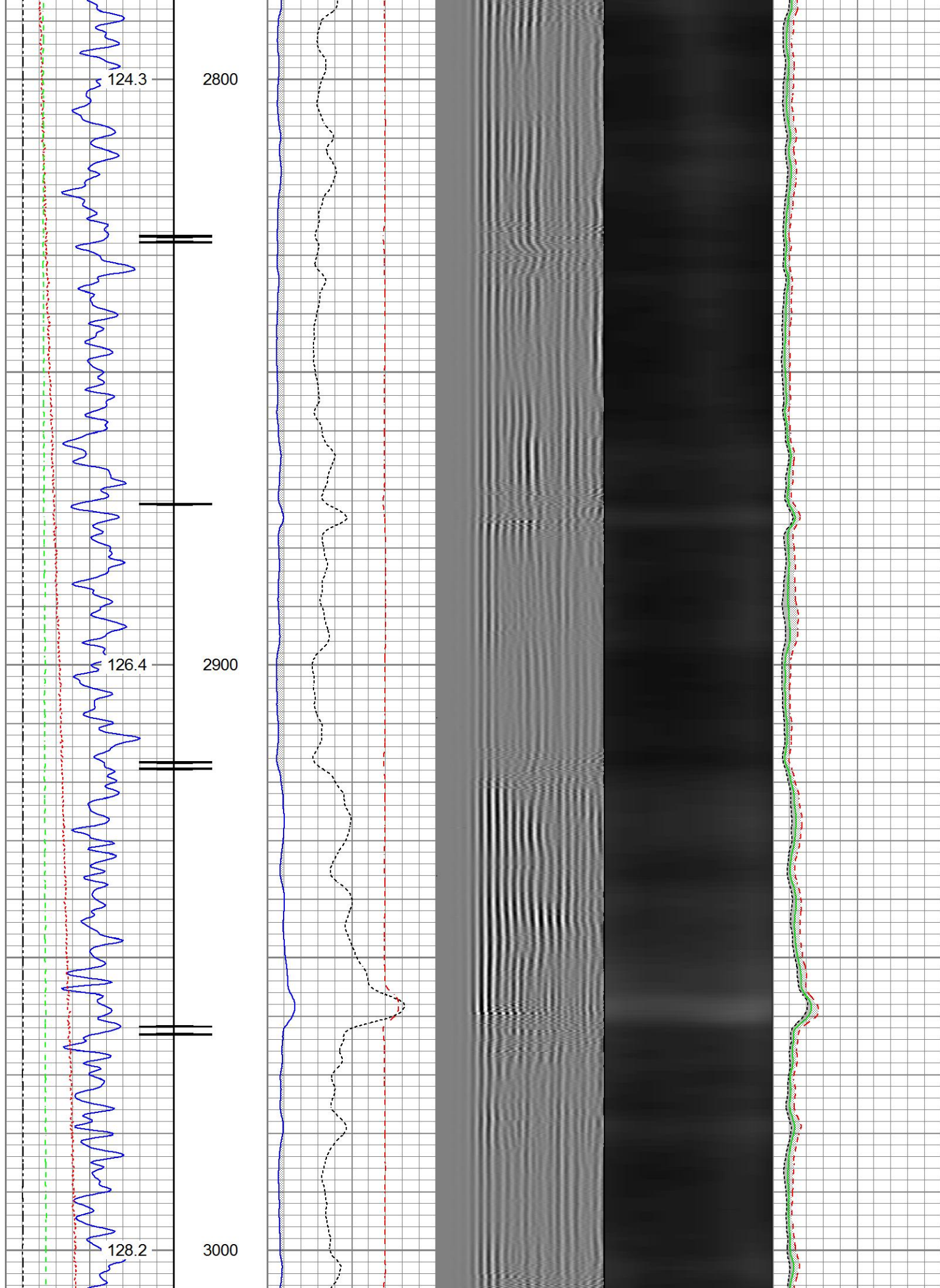


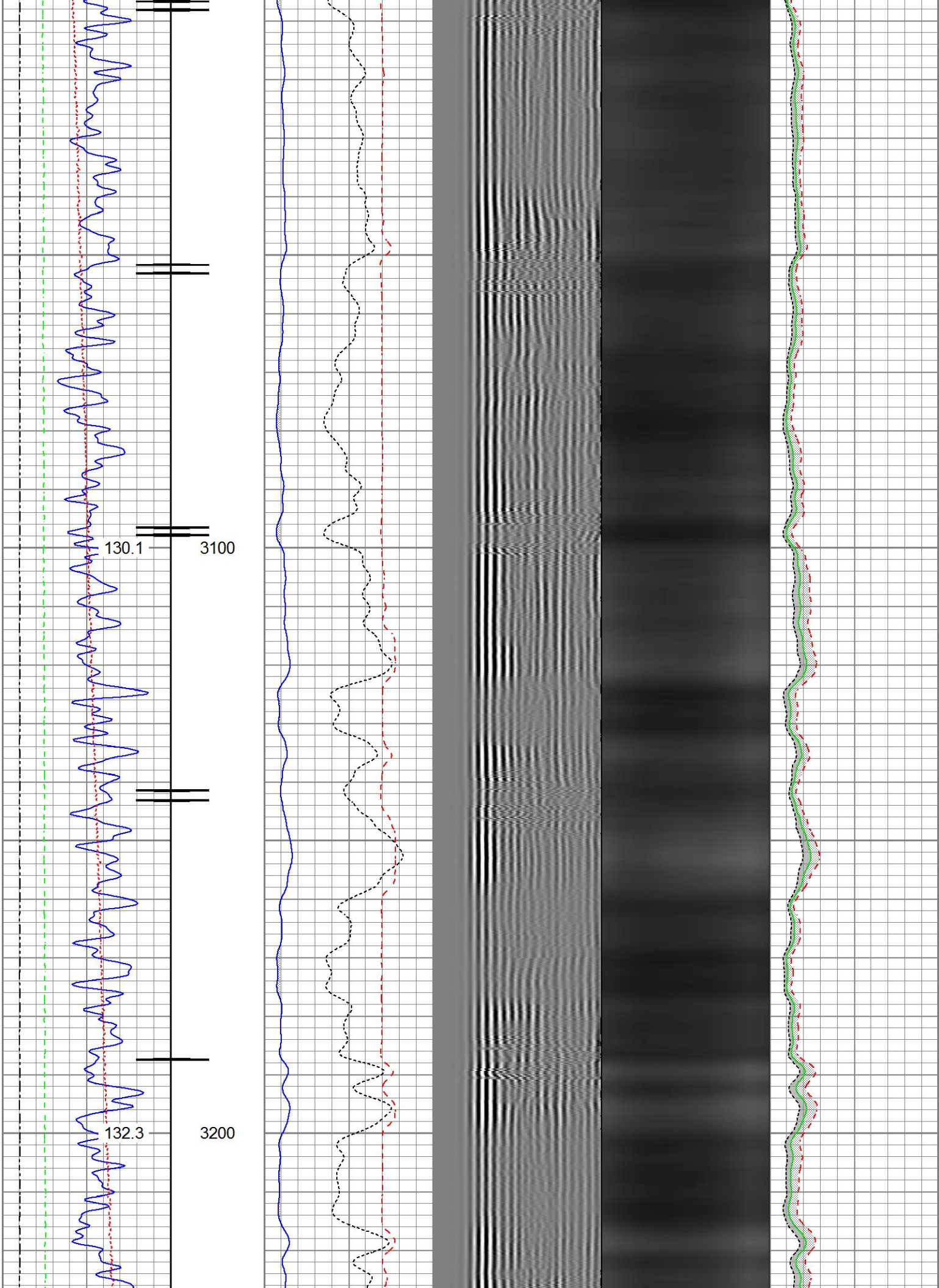


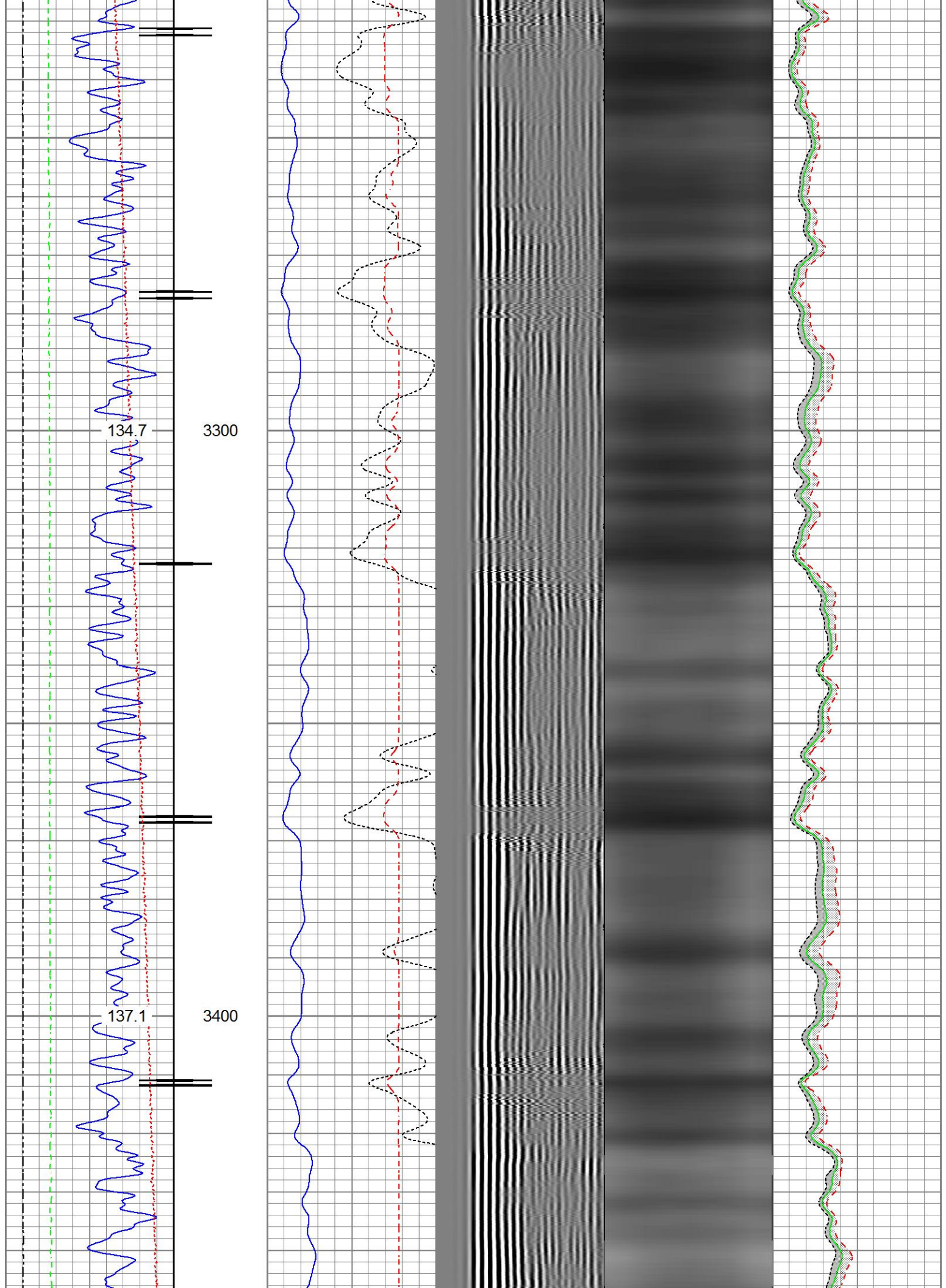


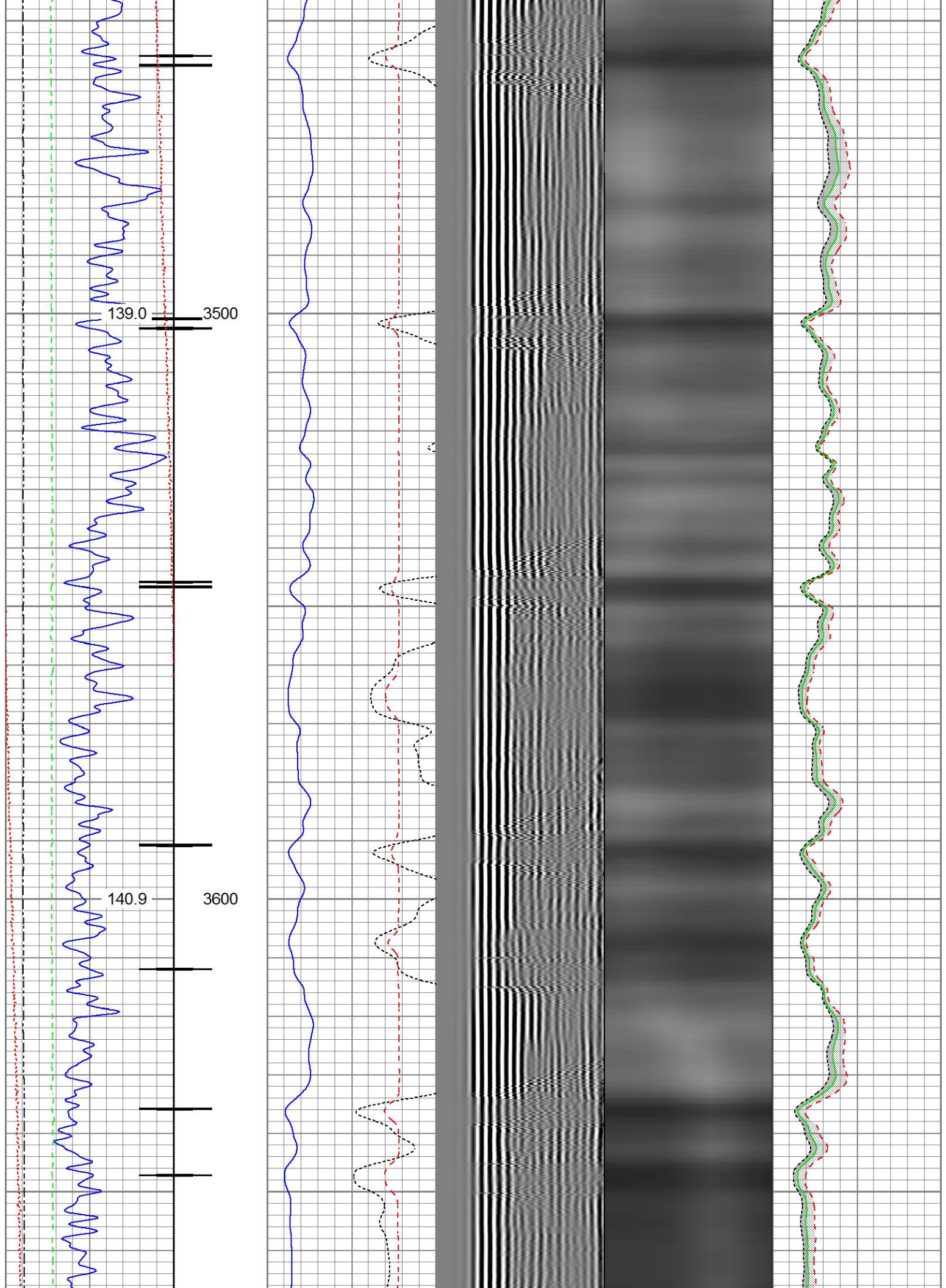


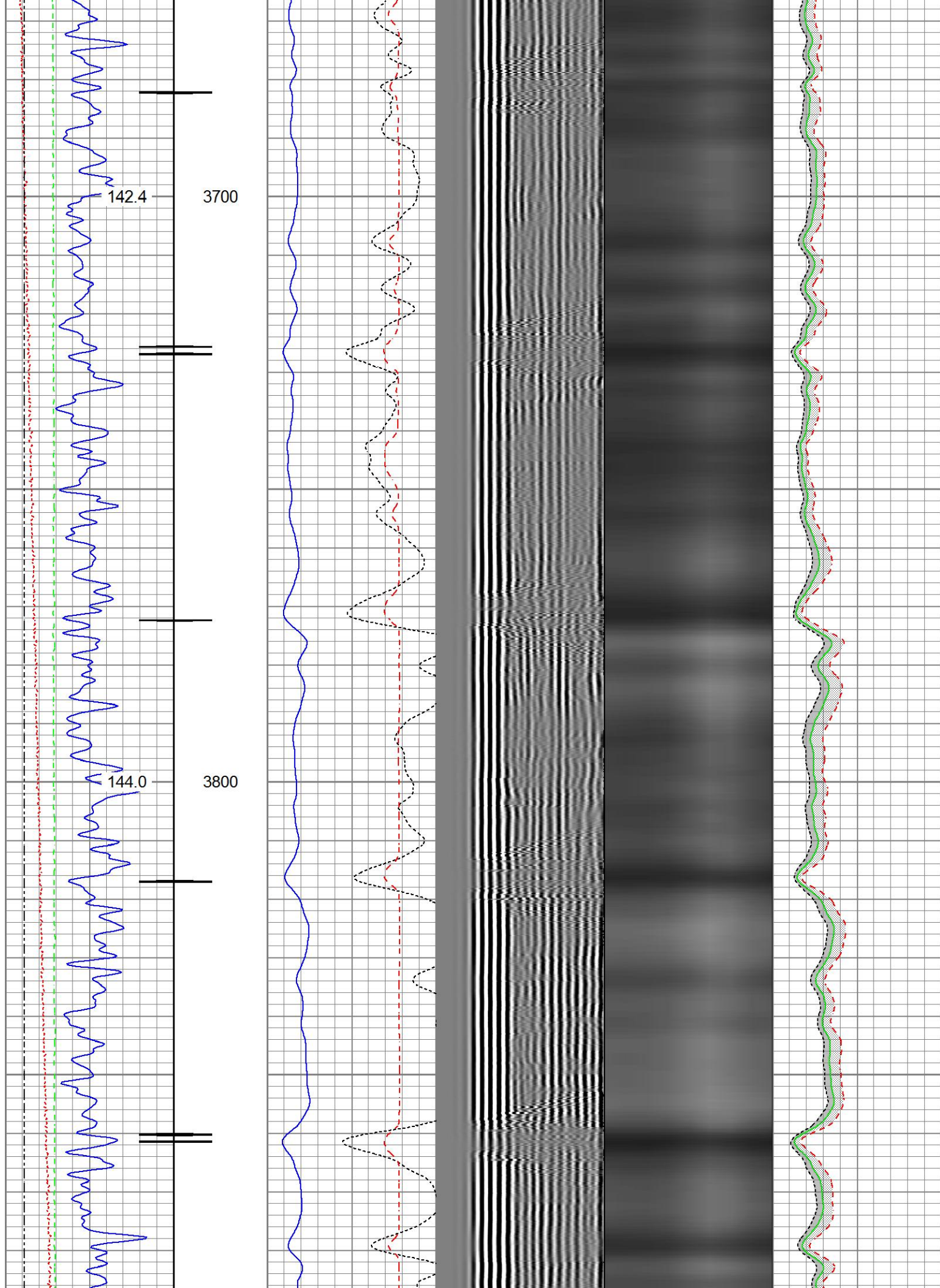


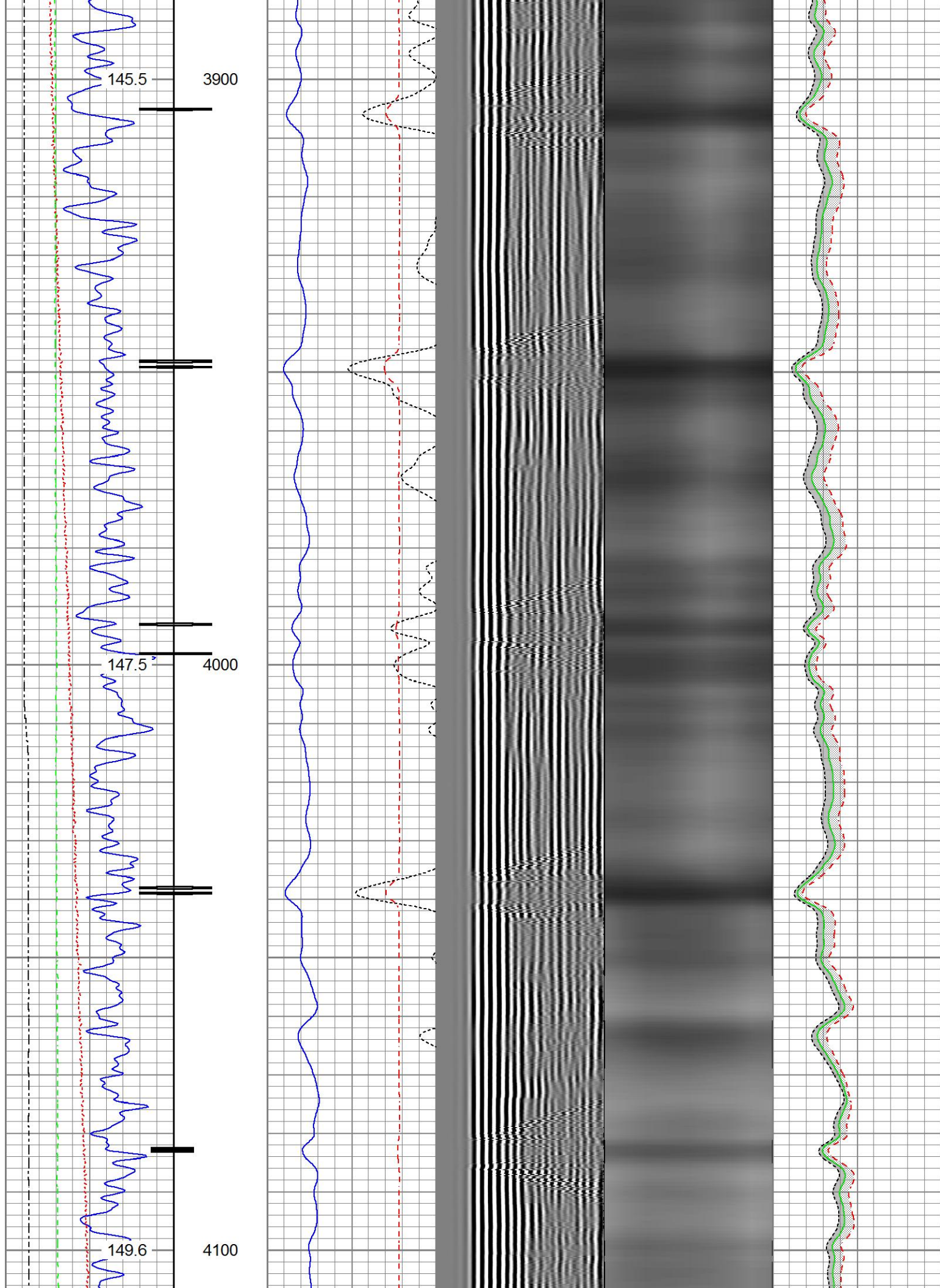


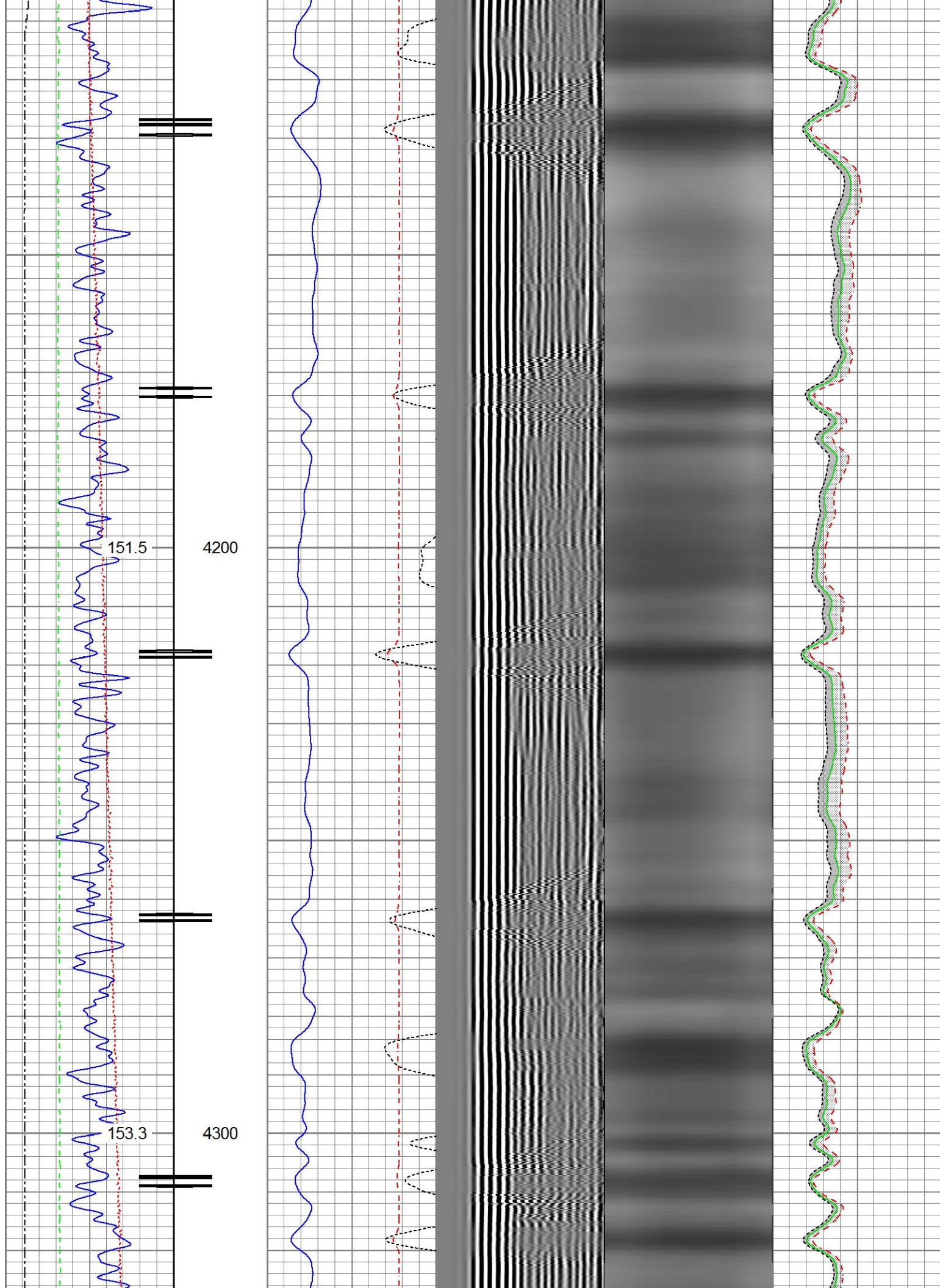


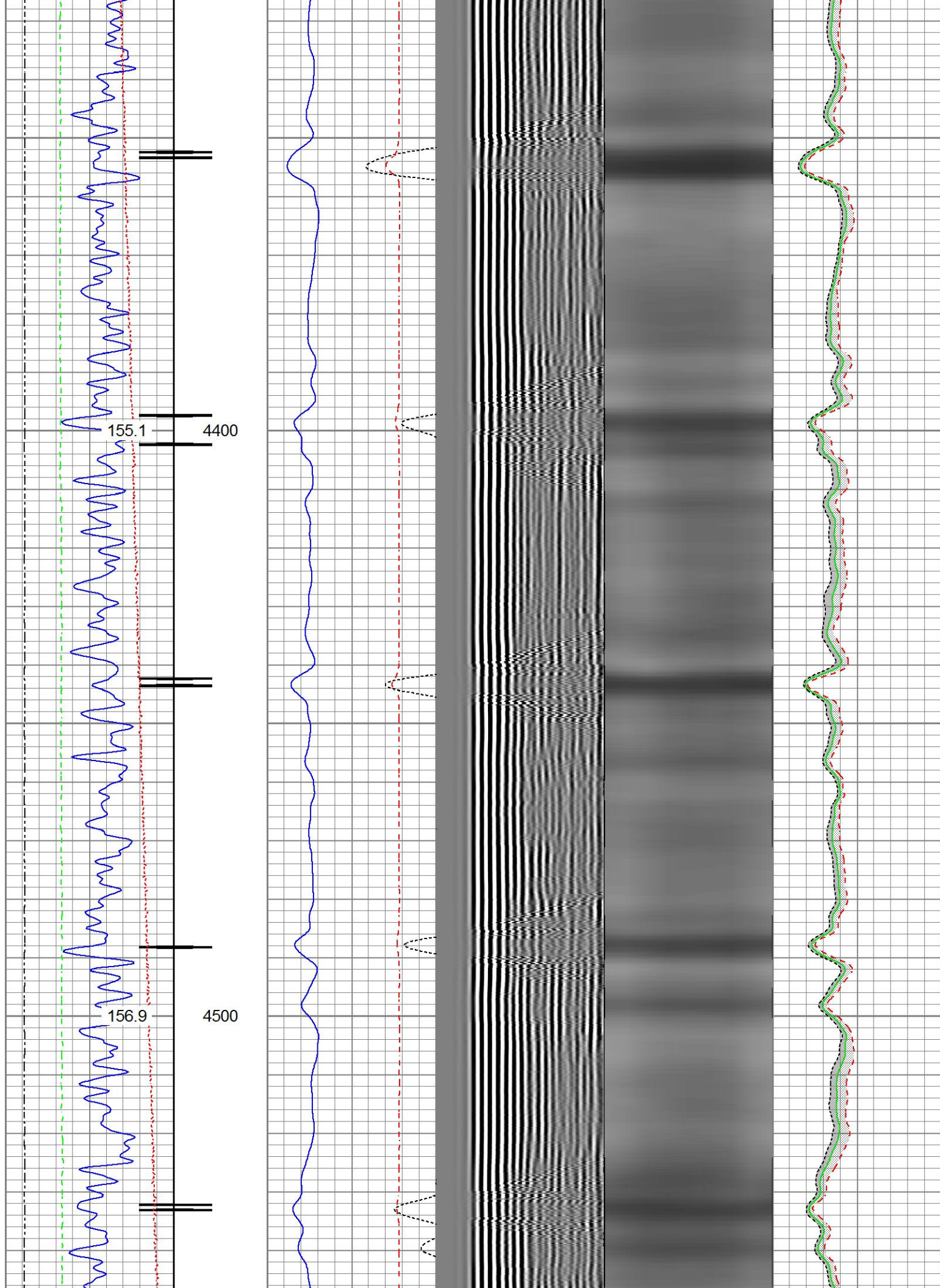


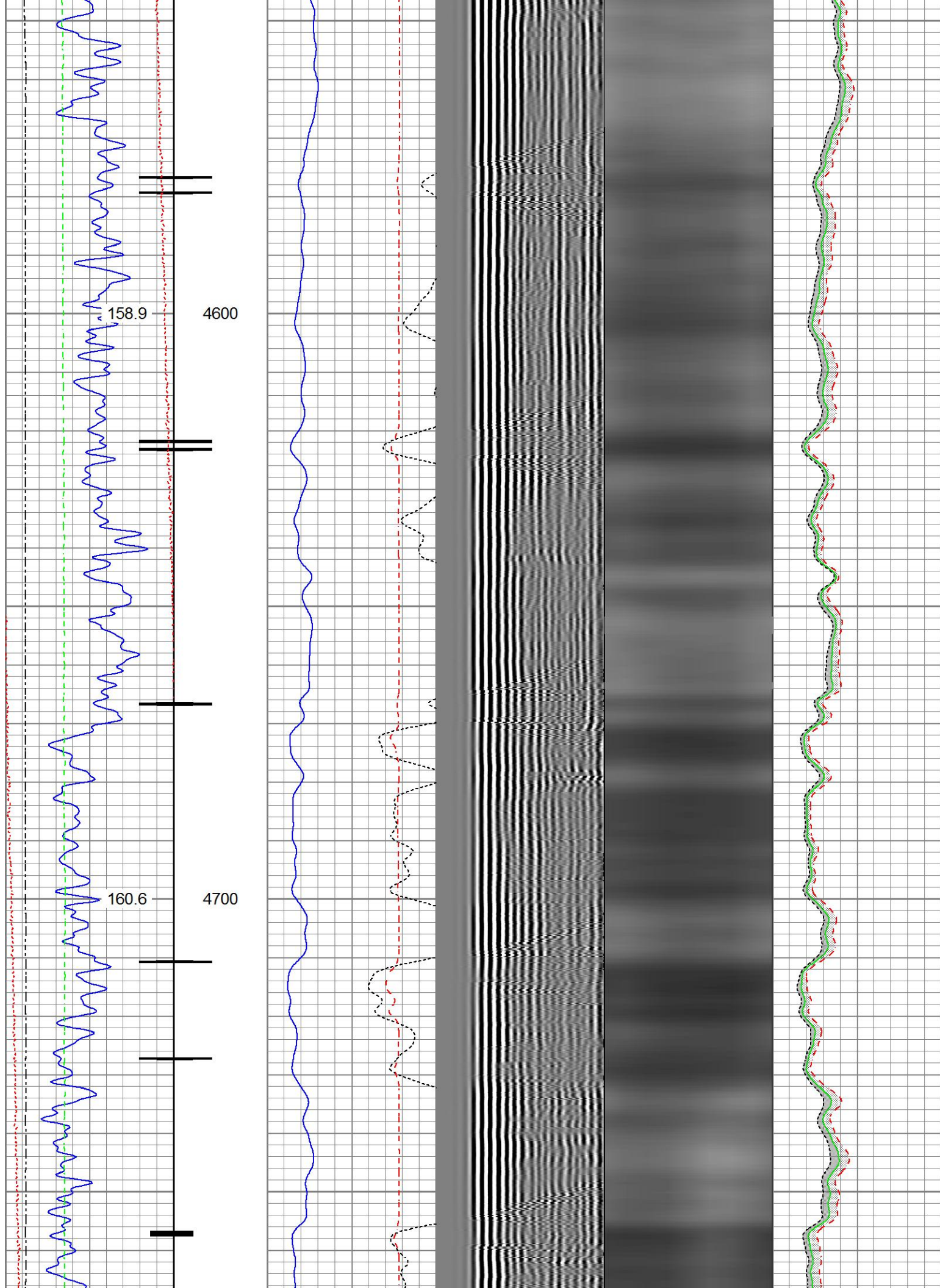


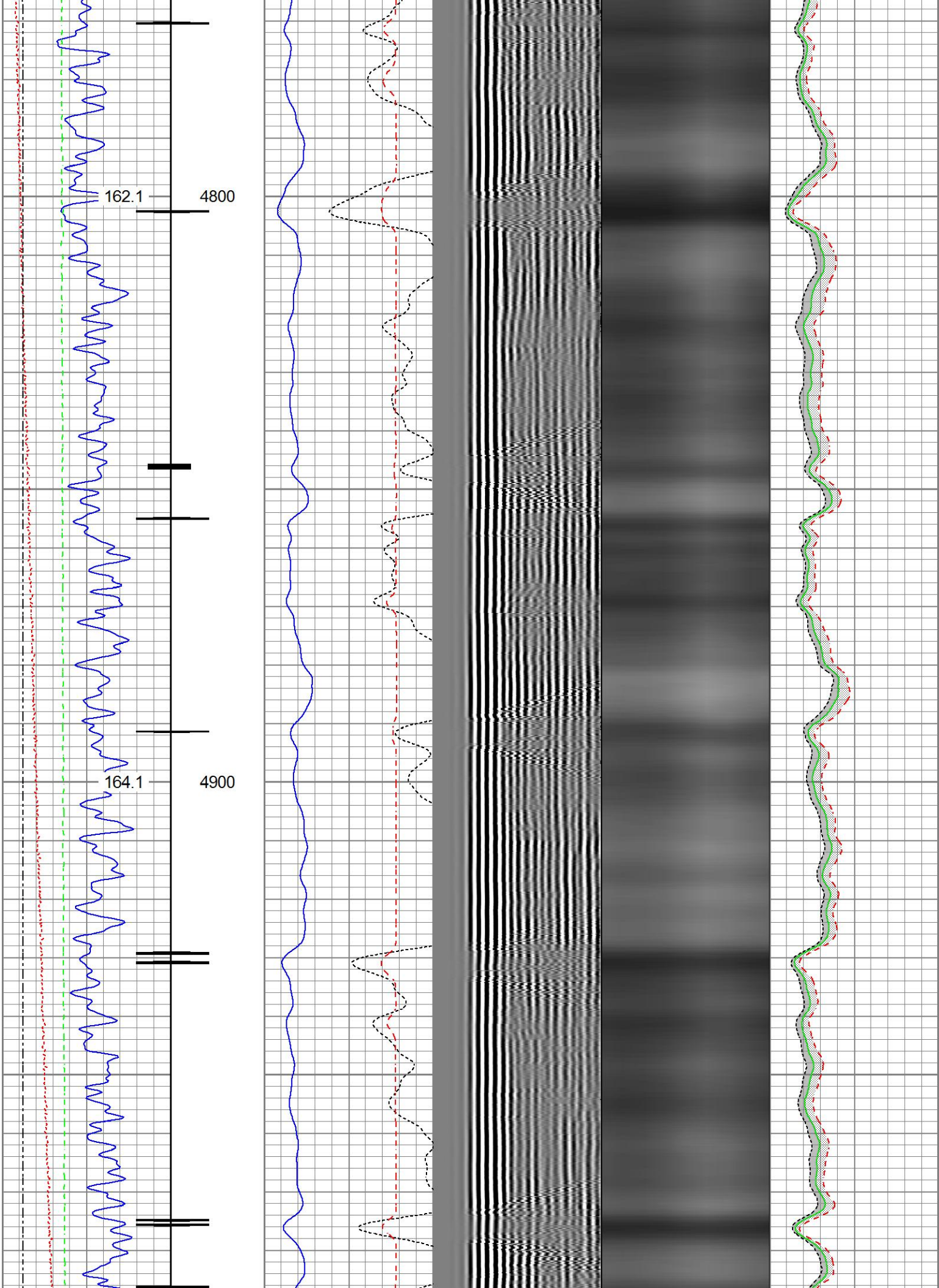


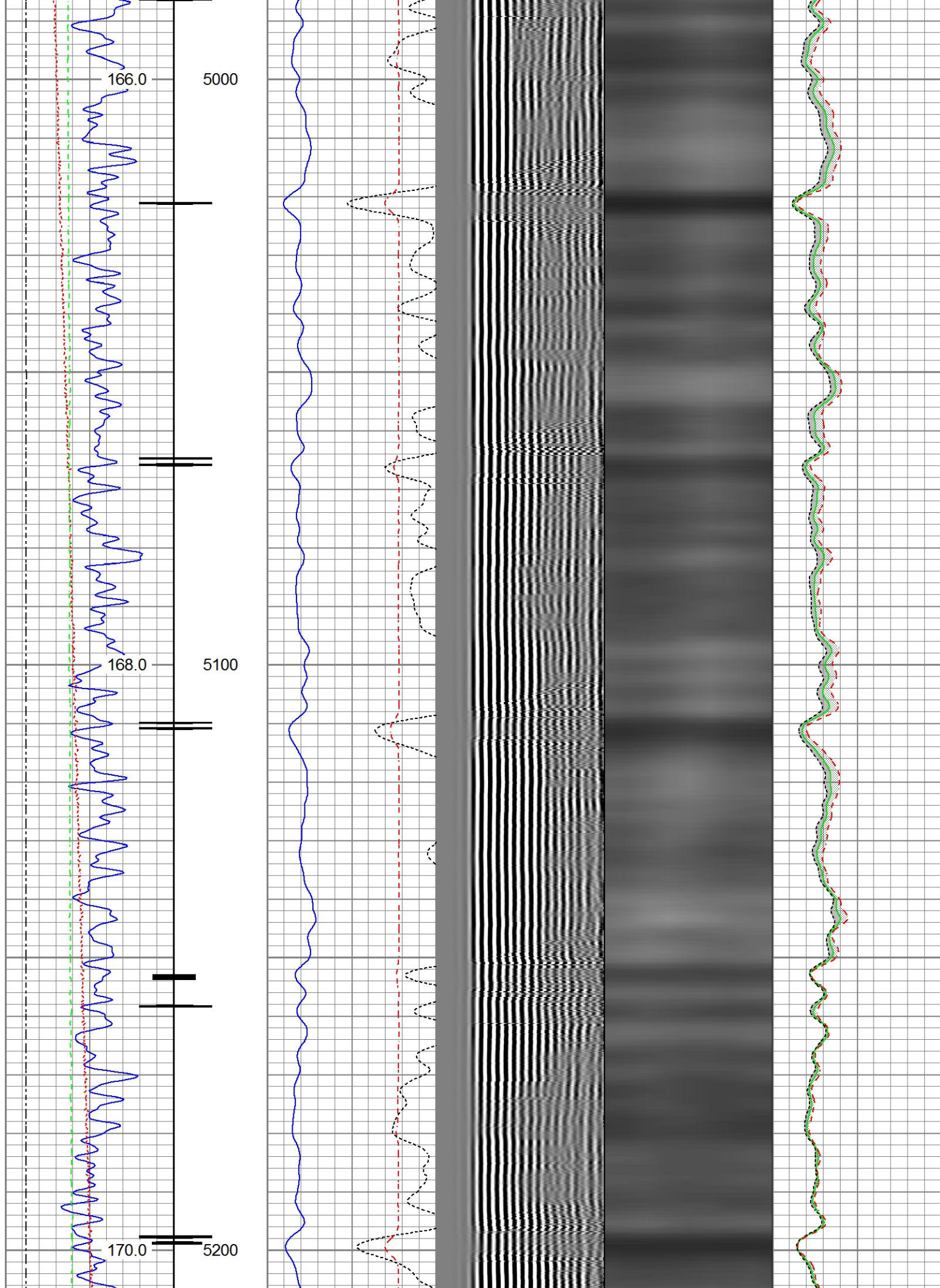


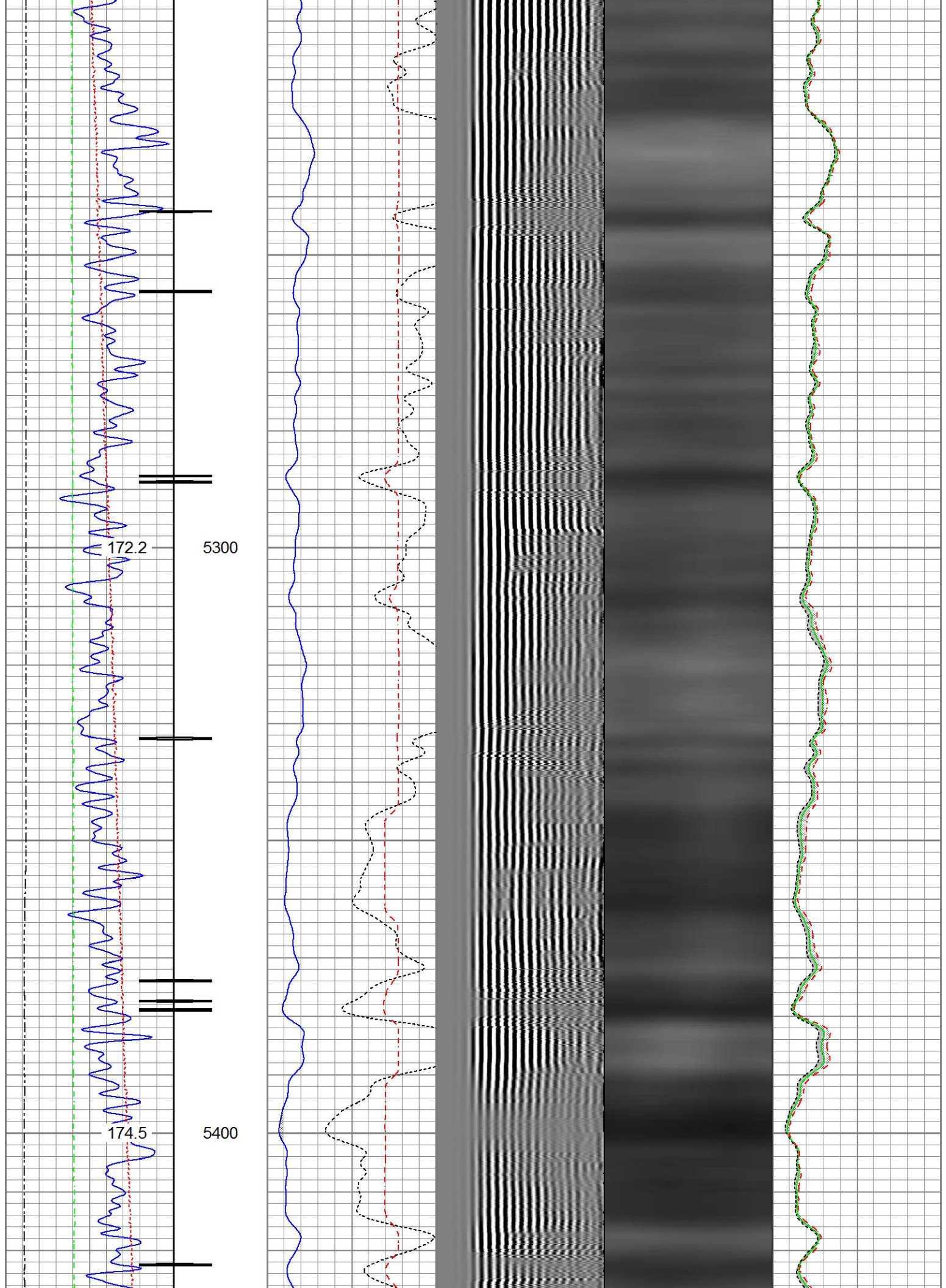


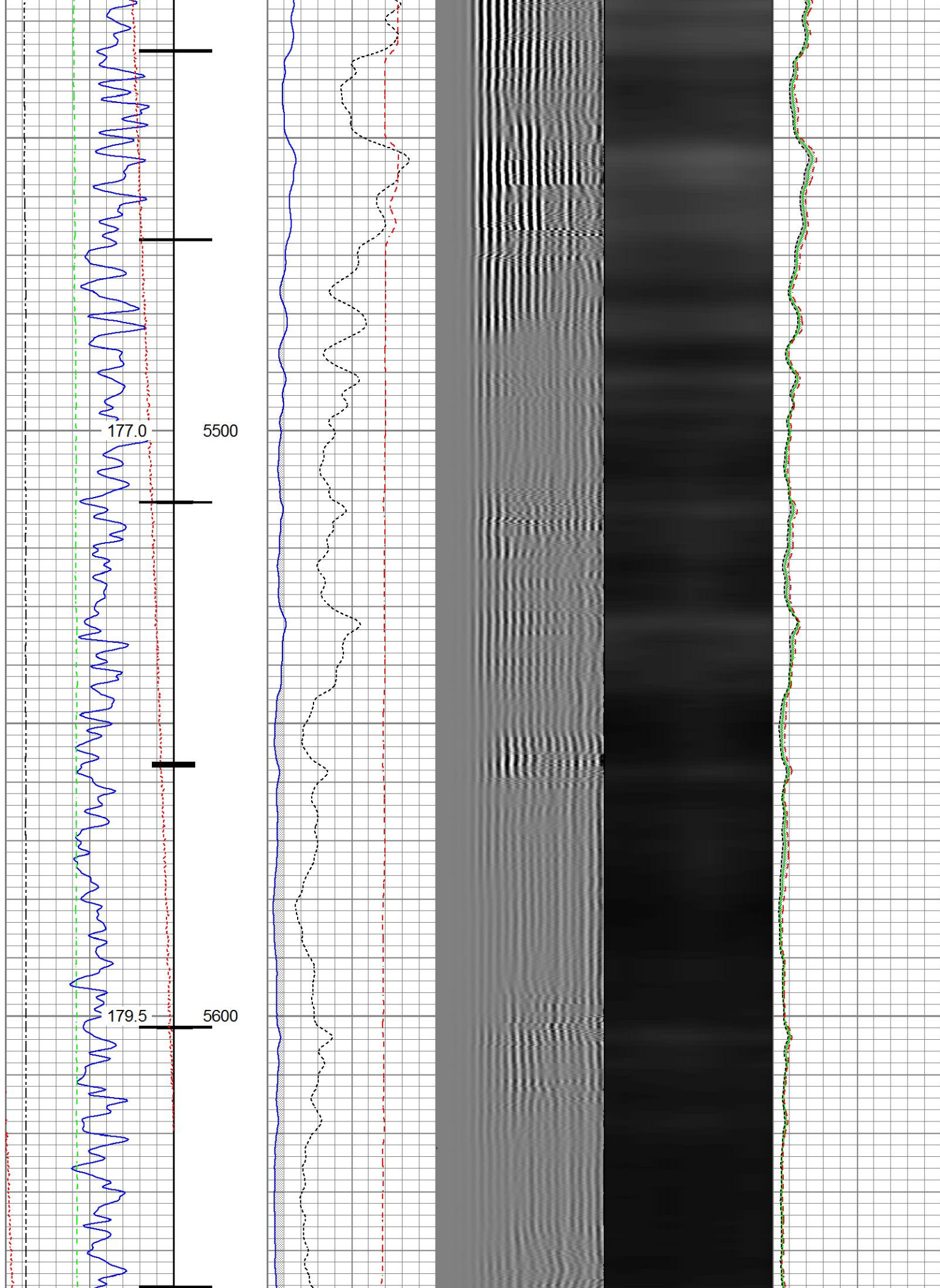


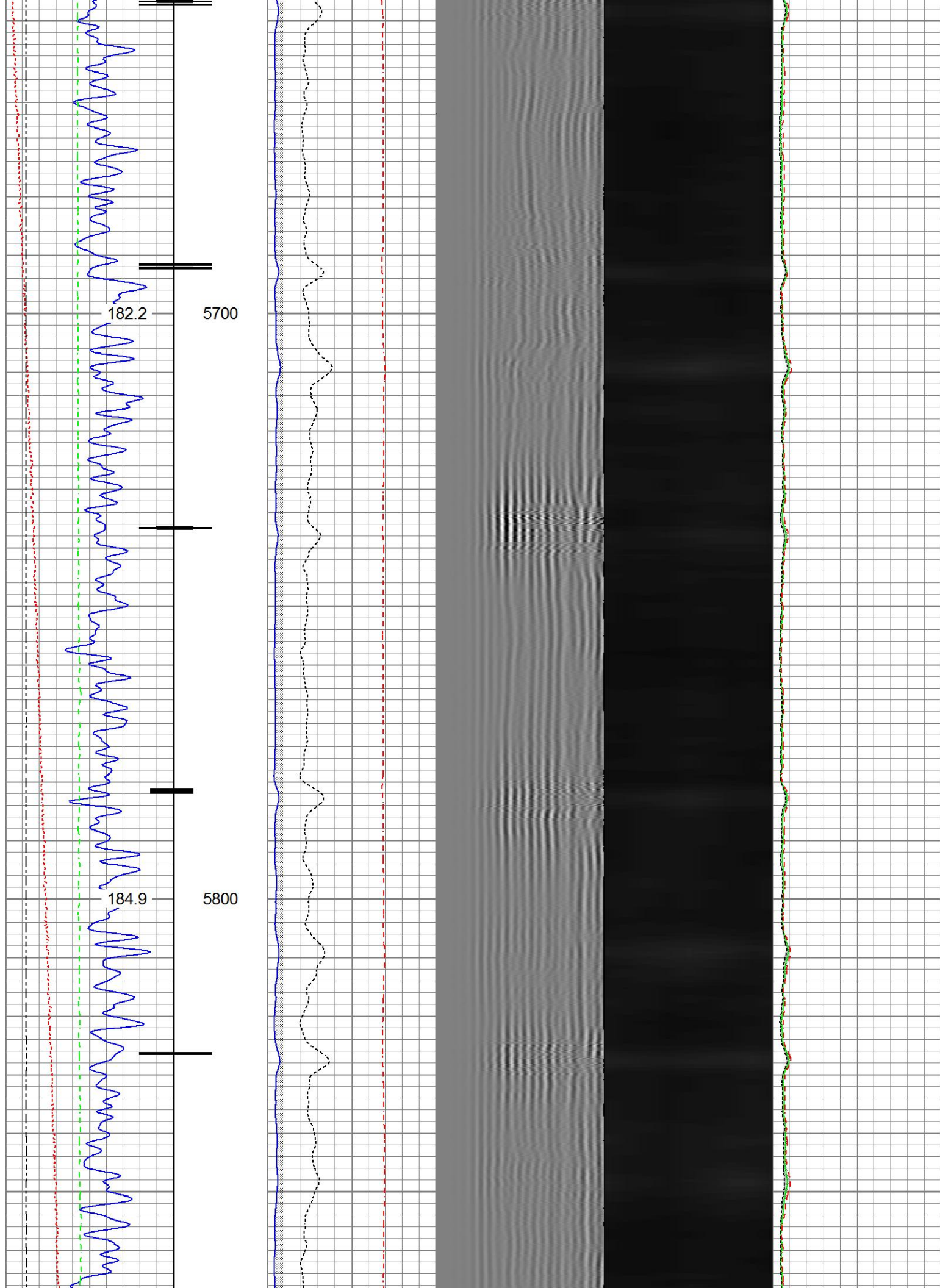


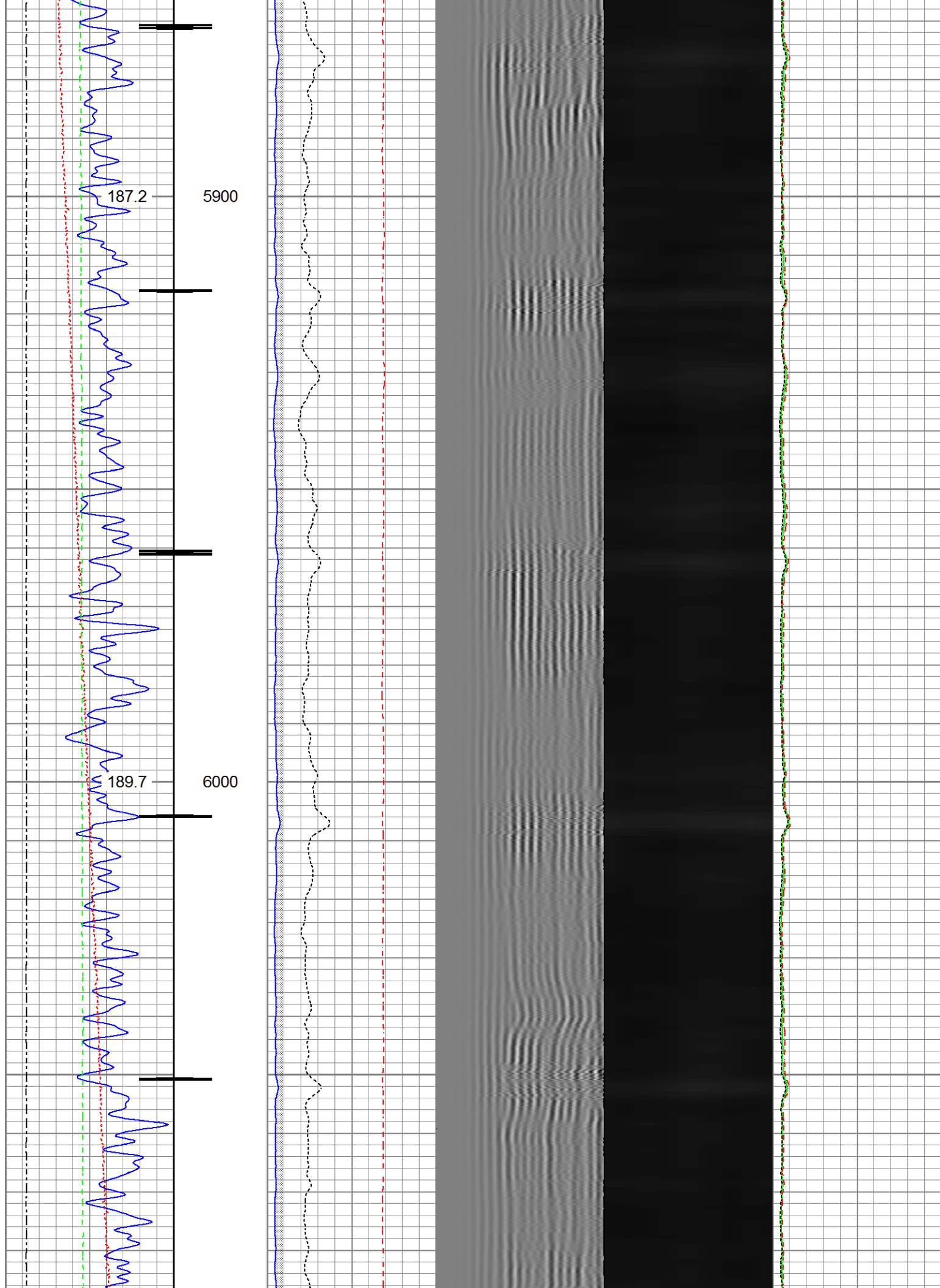


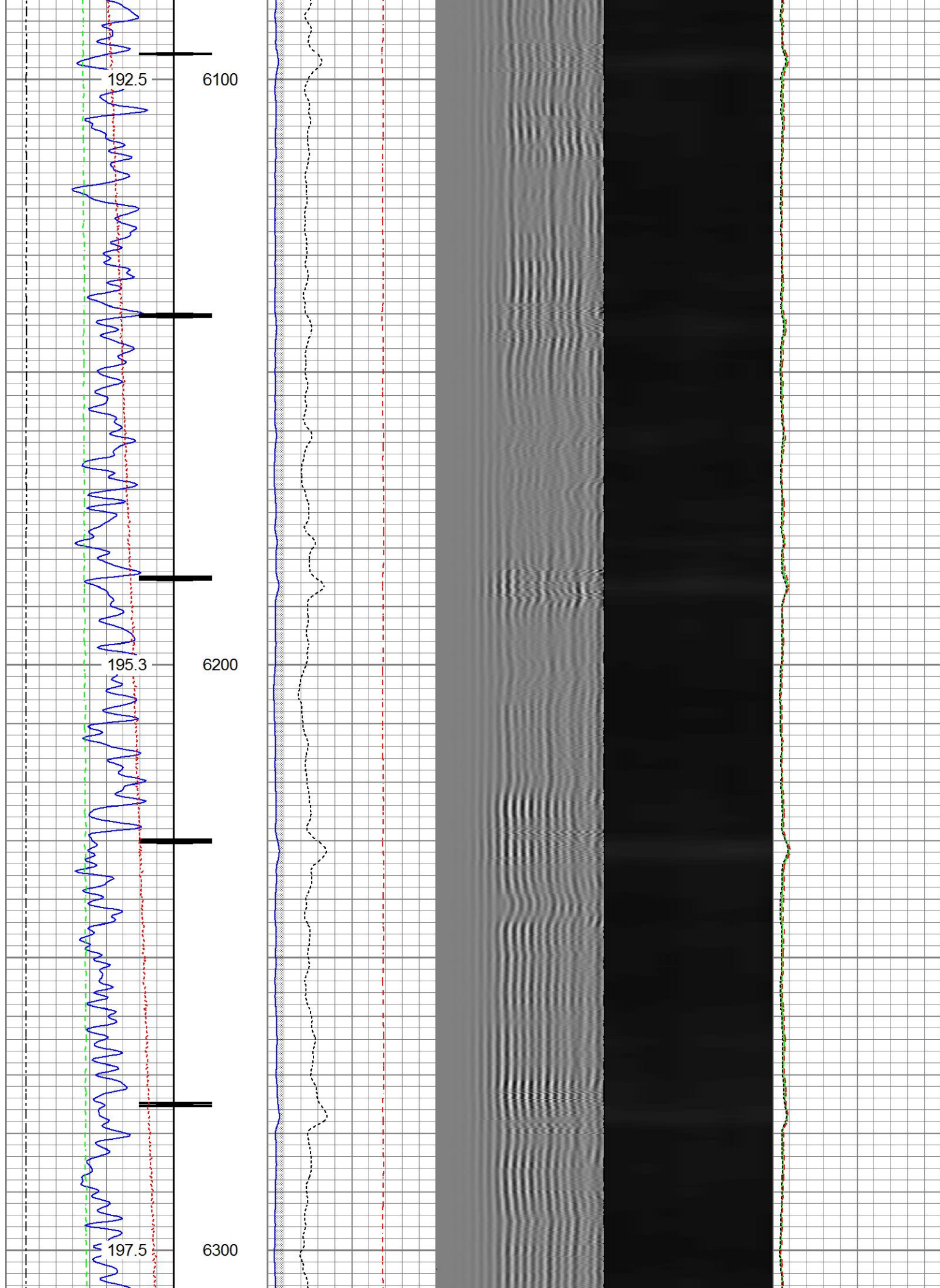


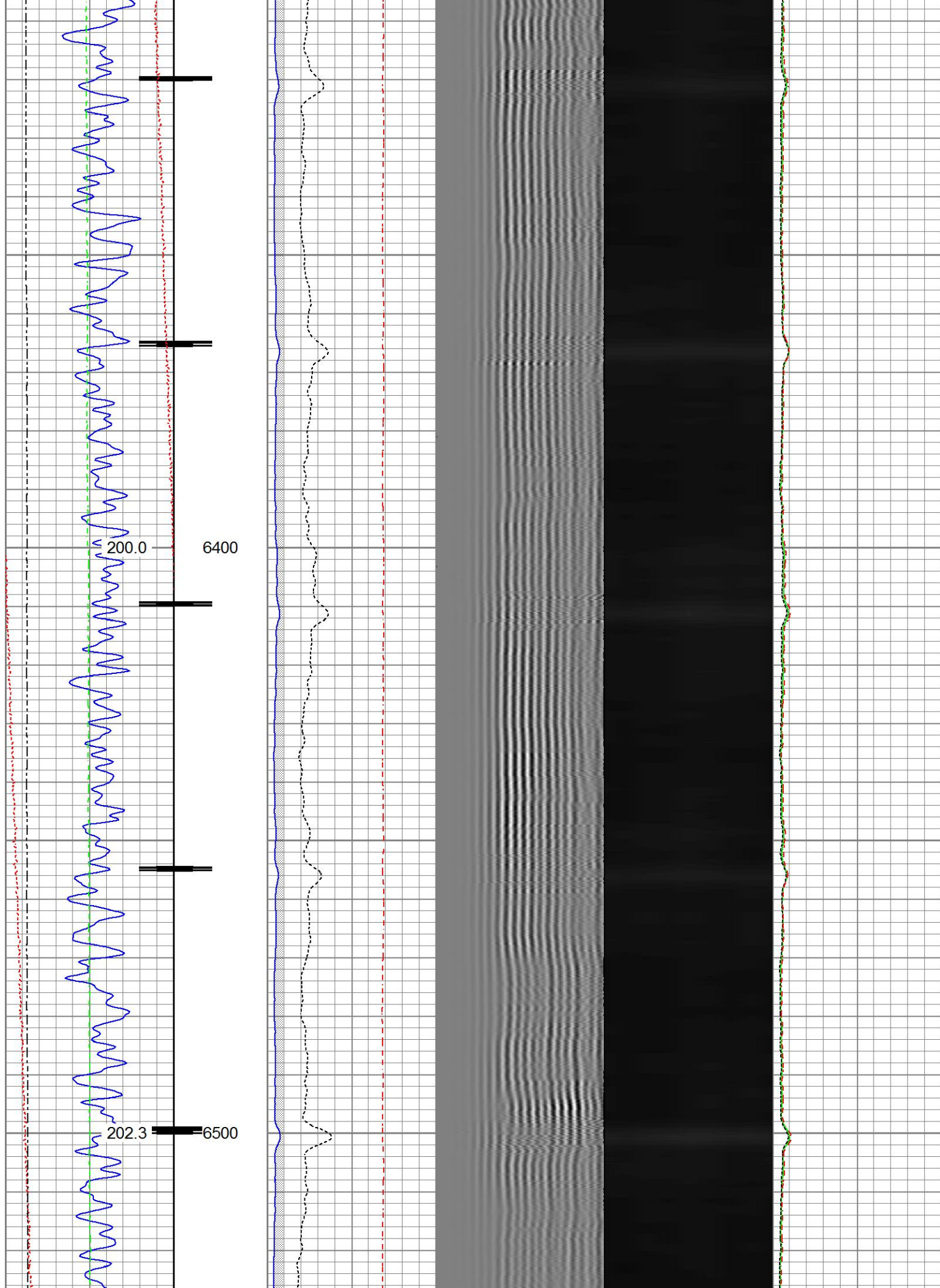


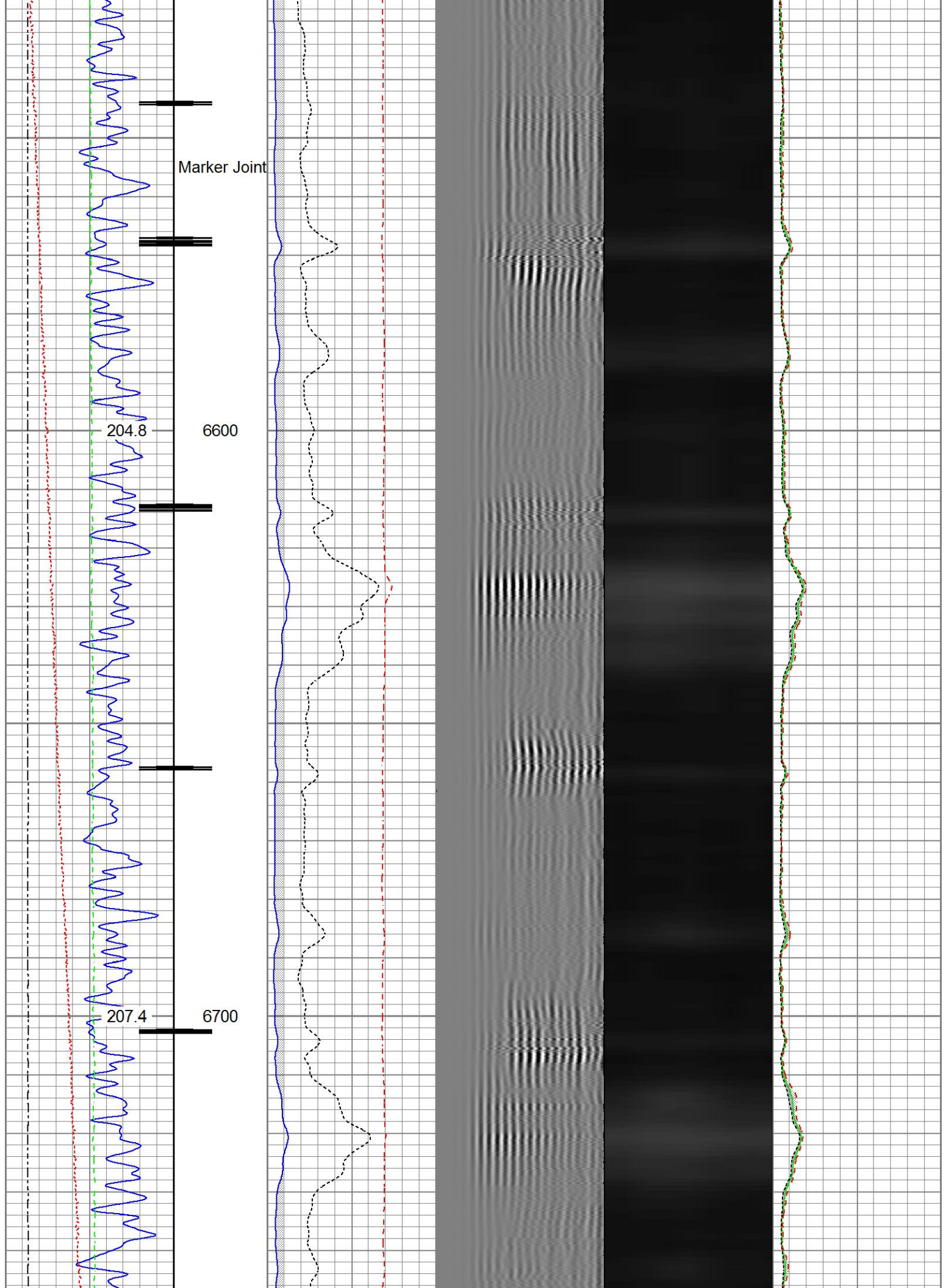


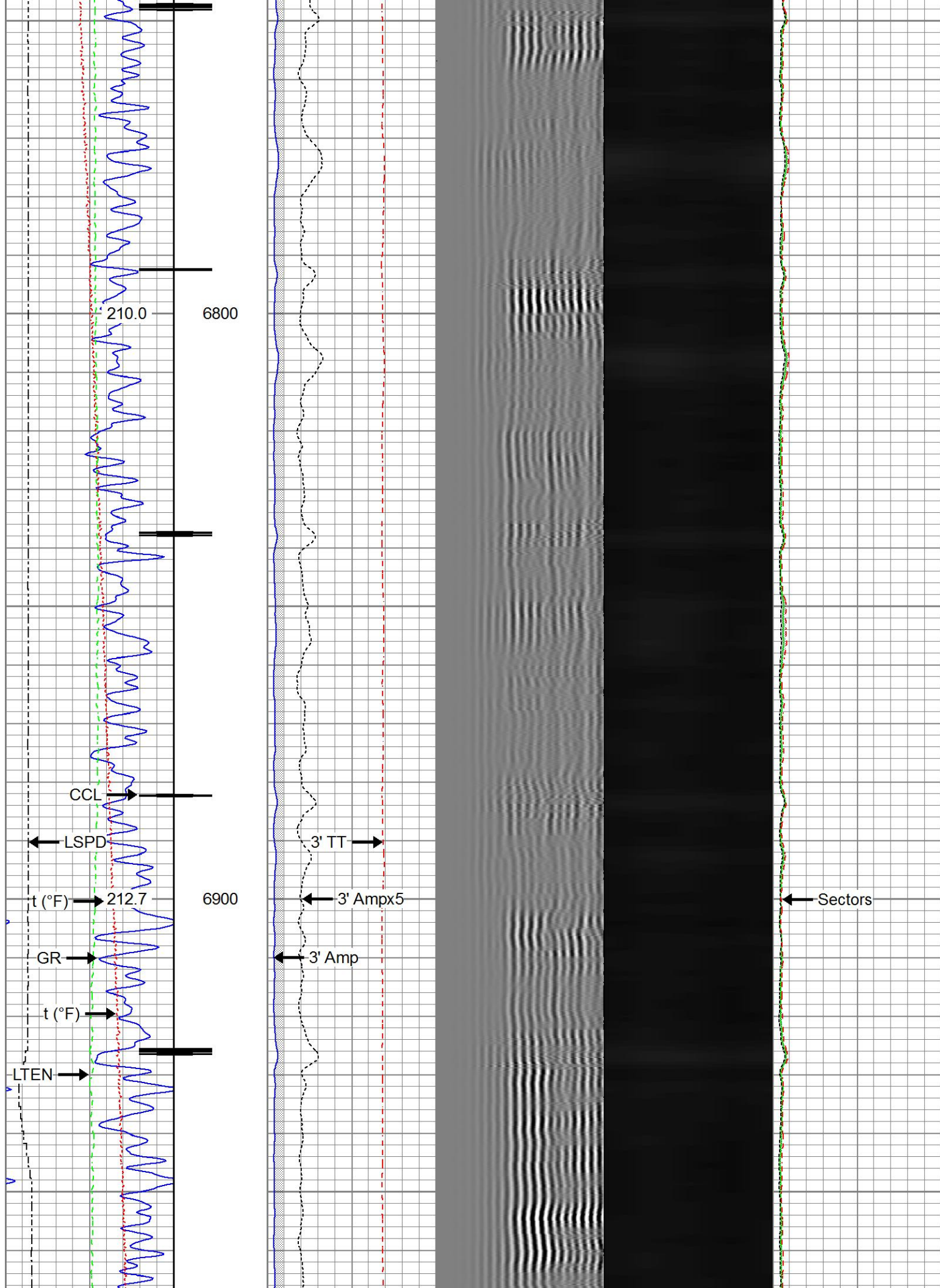


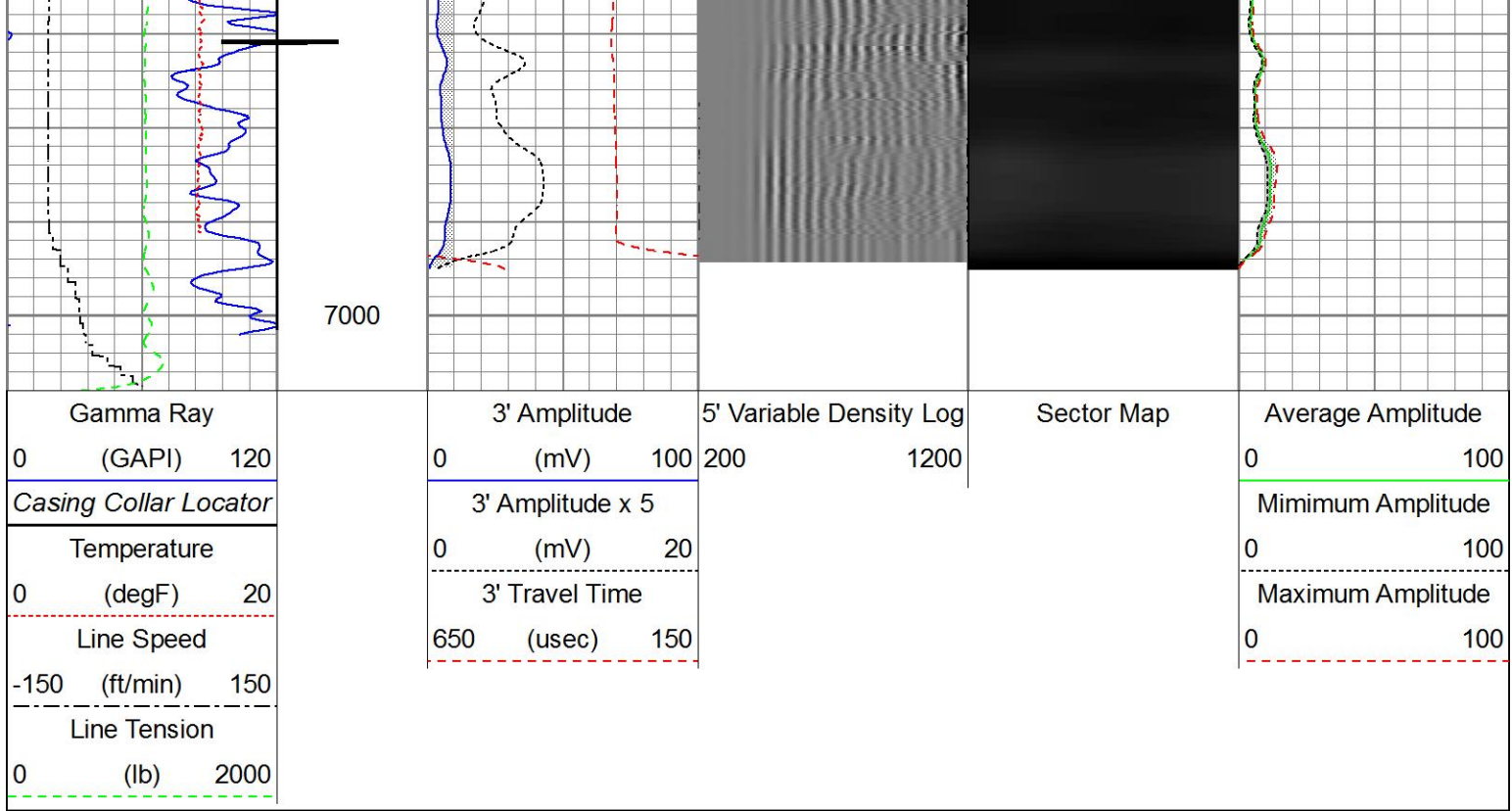








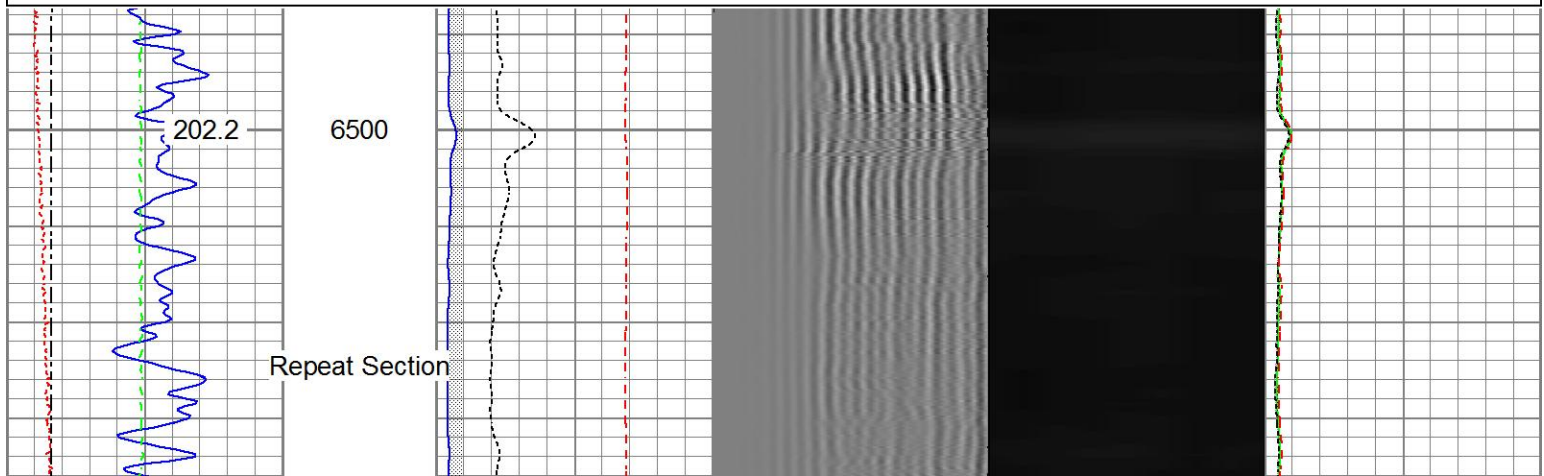
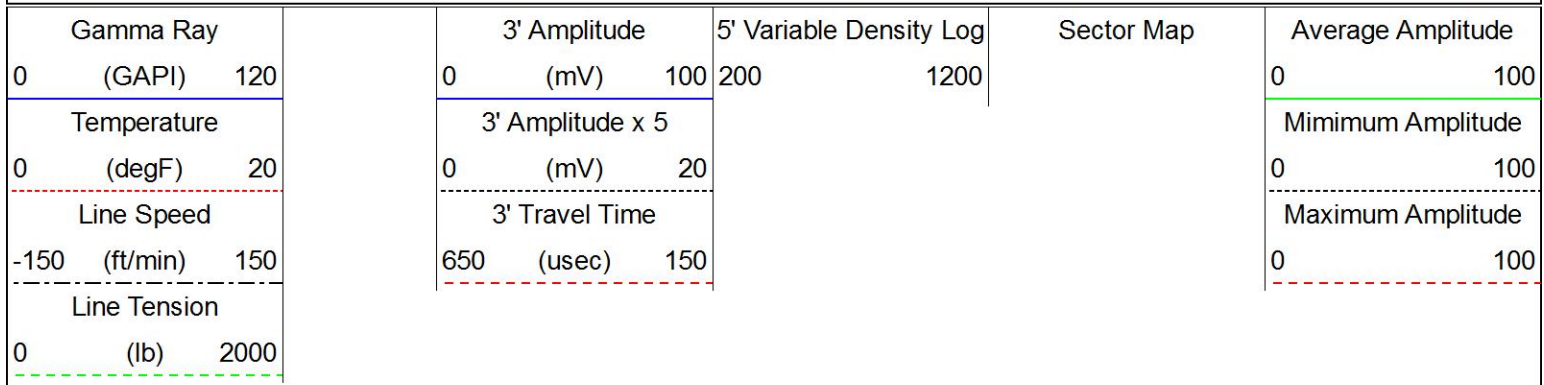


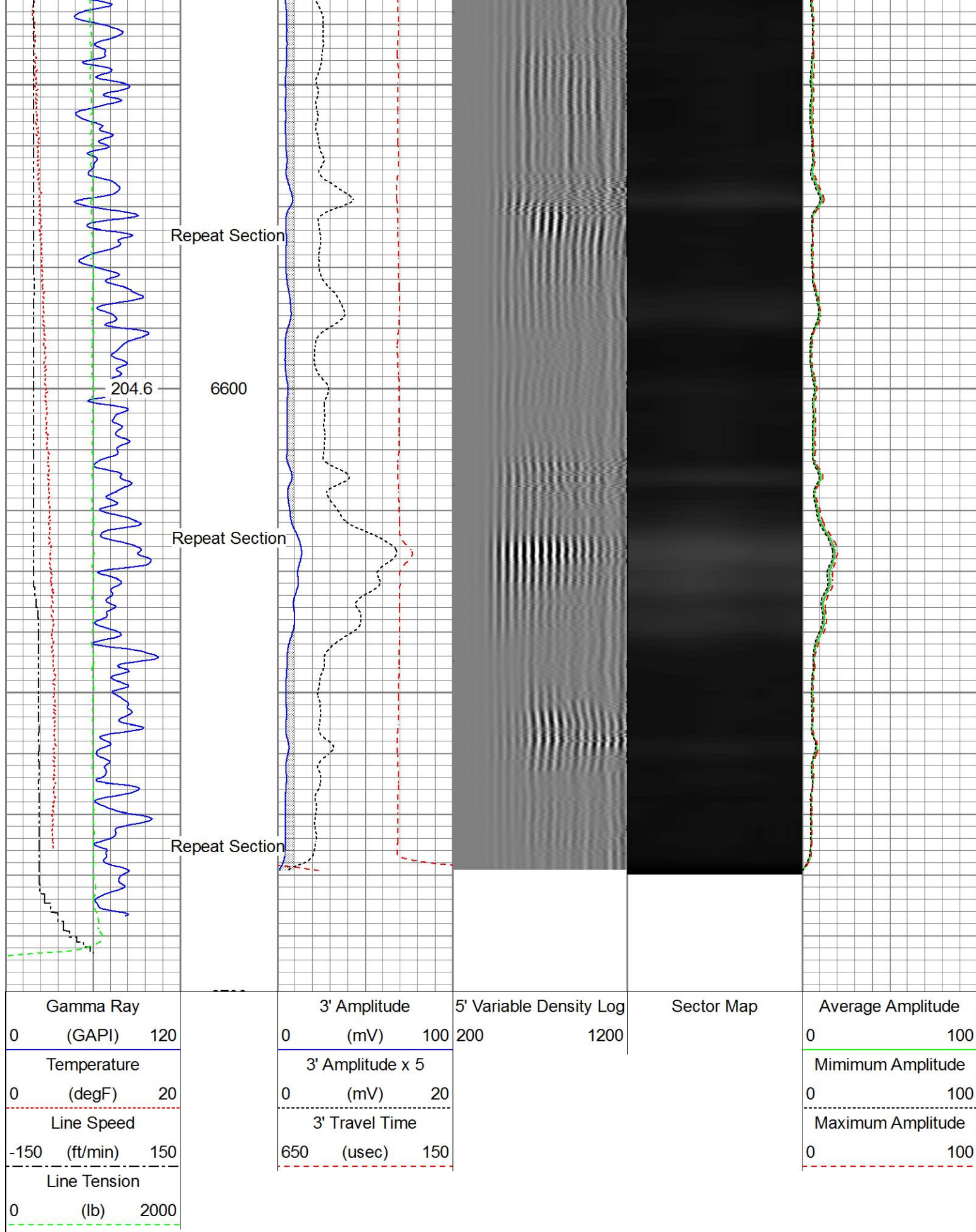



Repeat Pass

Recorded with 2800 PSI Surface Induced Pressure

Database File 0506906483_anadarko_folley south 3_09-09-16_rbl_w8.db
 Dataset Pathname repeat
 Presentation Format ros_radrii
 Dataset Creation Fri Sep 09 17:51:01 2016
 Charted by Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan_Electric_Cable_Heads-Titan_1-11/161.03		1.69	5.40

				Electric Cable Head with 1" Fishing Neck			
				Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	EE2.88.275	2.75	20.00
HeadVolt	19.54						
Temp	16.75						
WVFS8	14.58			Probe_RADII-C-P_RBT_2750 (FW1302-009.19 Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe		2.75	105.00
WVFS7	14.58						
WVFS6	14.58						
WVFS5	14.58						
WVFS4	14.58						
WVFS3	14.58						
WVFS2	14.58						
WVFS1	14.58						
WVFCAL	14.58						
WVF3FT	14.58						
WVF5FT	13.58						
HEADVOLT	10.33			Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	EE2.88.275	2.75	20.00
DCCL	6.51						
CCL	6.51			Probe_GR_CCL-P_CGR_2750_S (FW1214.571) Probe 2-3/4" Digital CCL / Gamma Ray Combined		2.75	55.00
GR	3.77						
				Probe_ELine_BowSpring_Centralizer-P Probe 2-3/4" Electric Inline Bowspring Centralizer	EE2.88.275	2.75	20.00
<div>Dataset: 0506906483_Anadarko_Folley South 3_09-09-16_RBL_w8.db: field/well/run1/main</div> <div>Total length: 23.43 ft</div> <div>Total weight: 225.40 lb</div> <div>O.D.: 2.75 in</div>							

Gamma Ray Calibration Report

Serial Number: FW1211-081
 Tool Model: P_CGR_2750_S
 Performed: Sat Feb 06 11:31:52 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.6 cps

Sensitivity: 0.6061 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002
 Tool Model: P_RBT_2750

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -11.776 ft

Master Calibration, performed Fri Sep 09 14:24:31 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.753	0.800	71.921	94.699	0.643
CAL	0.001	0.772				
5'	0.002	0.714	0.800	71.921	99.807	0.640
SUM						
S1	0.001	0.742	0.000	100.000	135.070	-0.186
S2	0.001	0.746	0.000	100.000	134.293	-0.190
S3	0.002	0.745	0.000	100.000	134.513	-0.202
S4	0.002	0.739	0.000	100.000	135.600	-0.220
S5	0.001	0.755	0.000	100.000	132.754	-0.170
S6	0.001	0.756	0.000	100.000	132.434	-0.175
S7	0.003	0.756	0.000	100.000	132.769	-0.357
S8	0.002	0.755	0.000	100.000	132.681	-0.232

Internal Reference Calibration, performed Wed Aug 03 10:40:08 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.772	1.000	0.000

Air Zero Calibration, performed Fri Sep 09 14:24:53 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.002		0.000		-0.000	
5'	0.002		0.000		-0.000	
SUM						
S1	0.001		0.000		0.000	
S2	0.001		0.000		-0.000	
S3	0.001		0.000		0.000	
S4	0.002		0.000		0.000	
S5	0.001		0.000		0.000	

S6	0.001	0.000	-0.000
S7	0.003	0.000	-0.000
S8	0.002	0.000	-0.000

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Folley South 3
	Field	Wattenberg
	County	Larimer
	State	Colorado