



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company Kerr McGee Oil & Gas Onshore LP
Well Nichols 30C-5HZ
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-35919
SHL:2399' FSL & 250' FEL
SEC 8 TWP 2N RGE 65W
Permanent Datum Ground Level Elevation 4946
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
PLUG
Elevation
K.B. 4961
D.F. NA
G.L. 4946

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State Colorado

Date 28-FEB-2013

Run Number	ONE
Depth Driller	14322
Depth Logger	6767
Bottom Logged Interval	6767
Top Log Interval	Surface
Open Hole Size	9.625
Type Fluid	Water
Density / Viscosity	8.34LB/Gal
Max. Recorded Temp.	247 F
Estimated Cement Top	230
Time Well Ready	ROA
Time Logger on Bottom	-----
Equipment Number	HD0134
Location	Fort Lupton, CO
Recorded By	Brady Dilka
Witnessed By	Keith Kallsen

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36	Surface	920
Prot. String				
Production String	7	26	Surface	7438
Liner	4.5	11.6	Surface	14332

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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

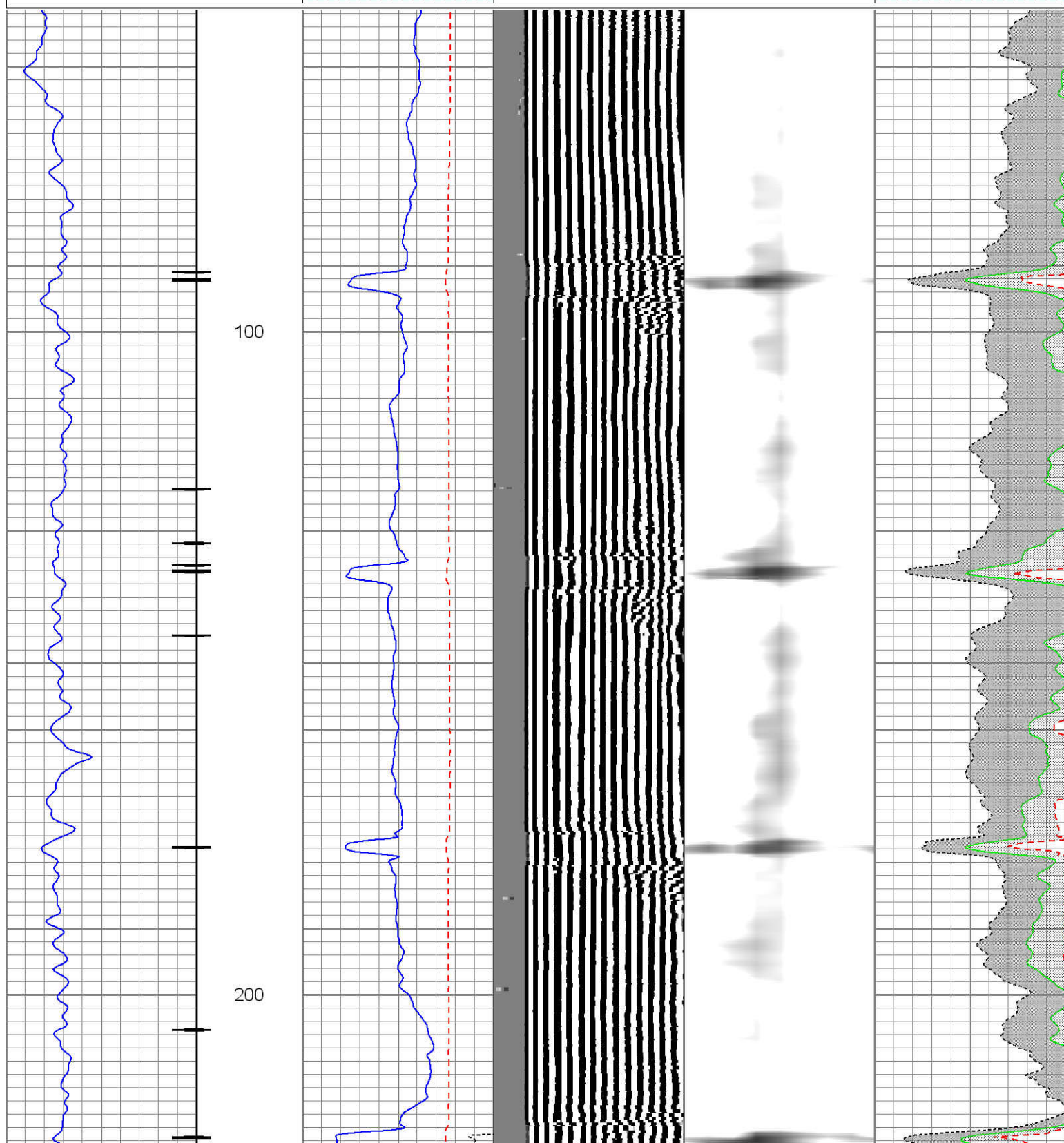
Radial Cement Bond is Primary Log
Correlated to Casing Tally Reported Liner Top @6704
Run CBL From Just Below Liner Top to Surface
RCBL Logged with 2800 PSU Surface Induced Pressure
Estimated Top of Cement 230'
Corrected -4.3' @ Liner Top With Zero @ KB

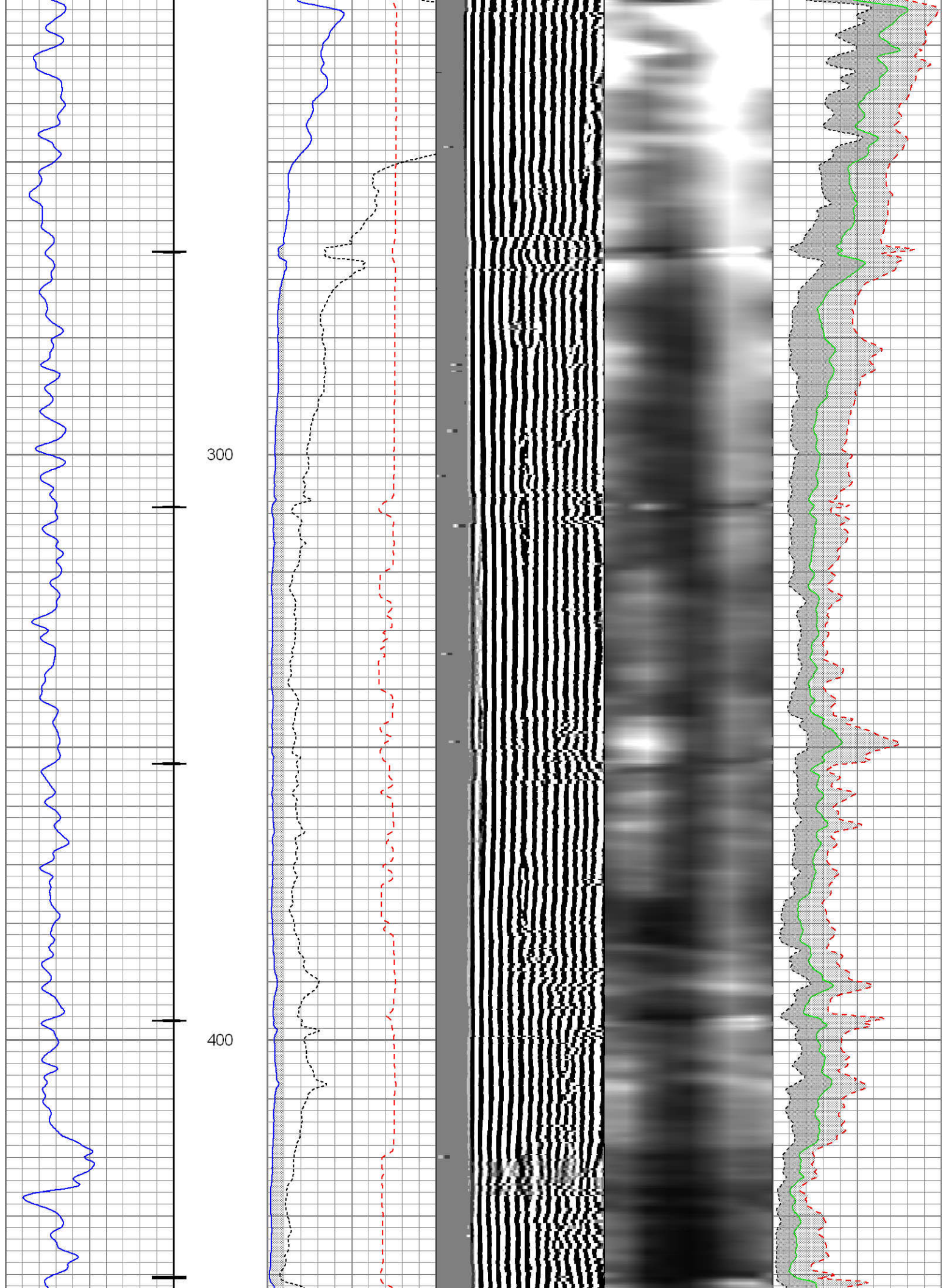
Thank you for choosing Pure Energy Wireline an FMC Technologies Company

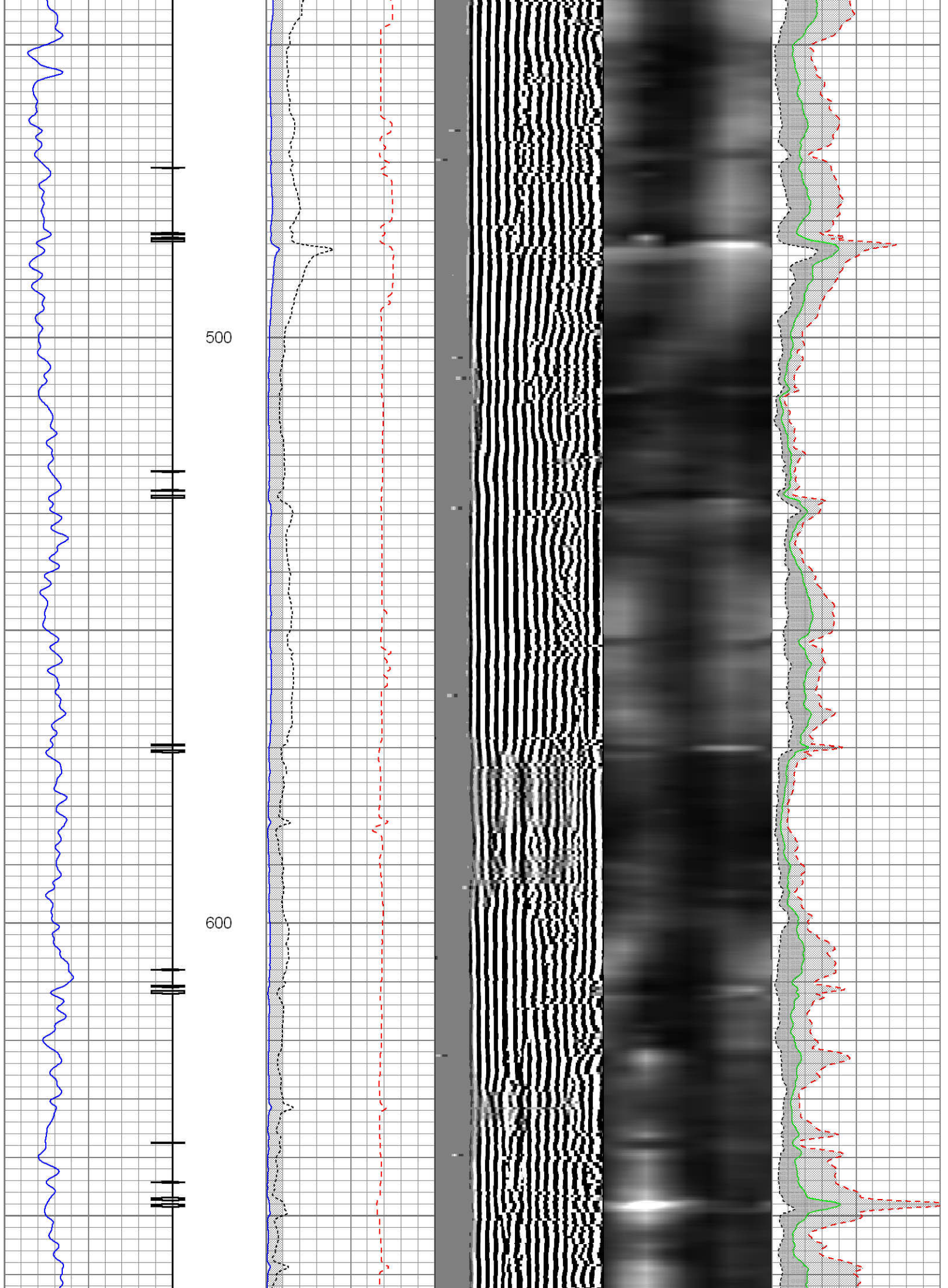
Main Pass

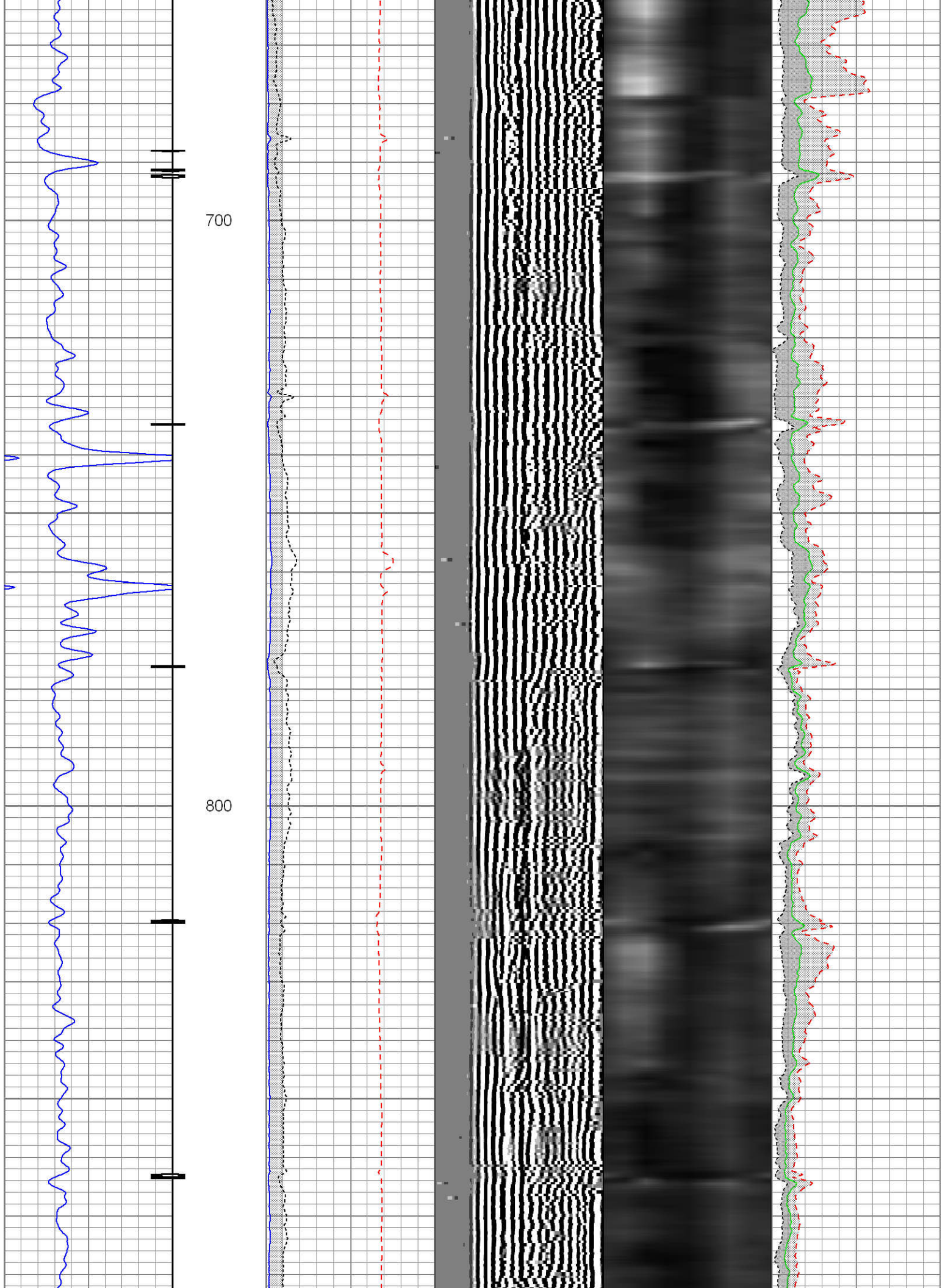
Database File: west nichols well.db
Dataset Pathname: pass10
Presentation Format: rib
Dataset Creation: Thu Feb 28 10:03:10 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

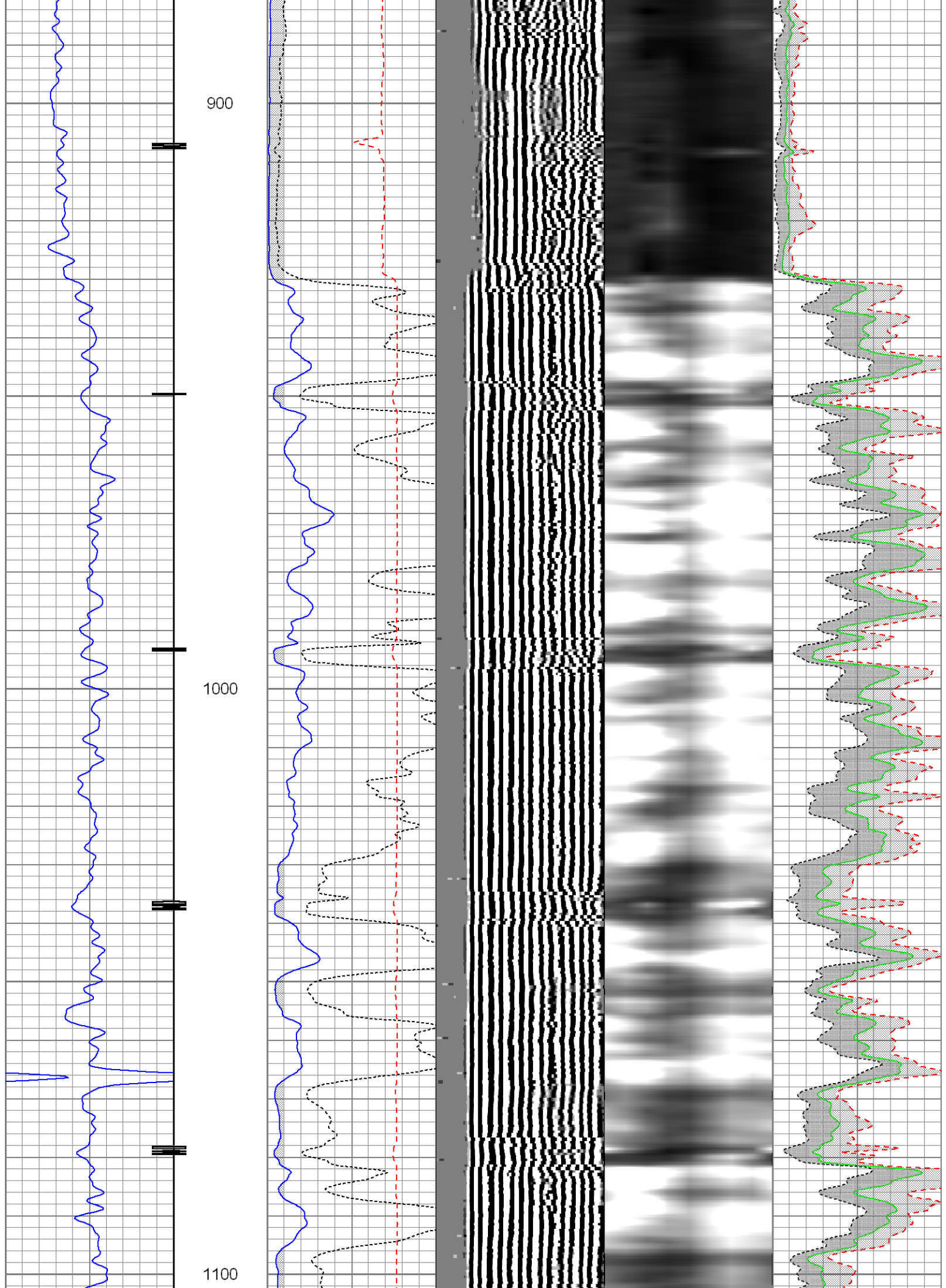
0	Gamma Ray 150	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
	Collar Locator	0 (mV) 100	200 1200		0 100
		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100

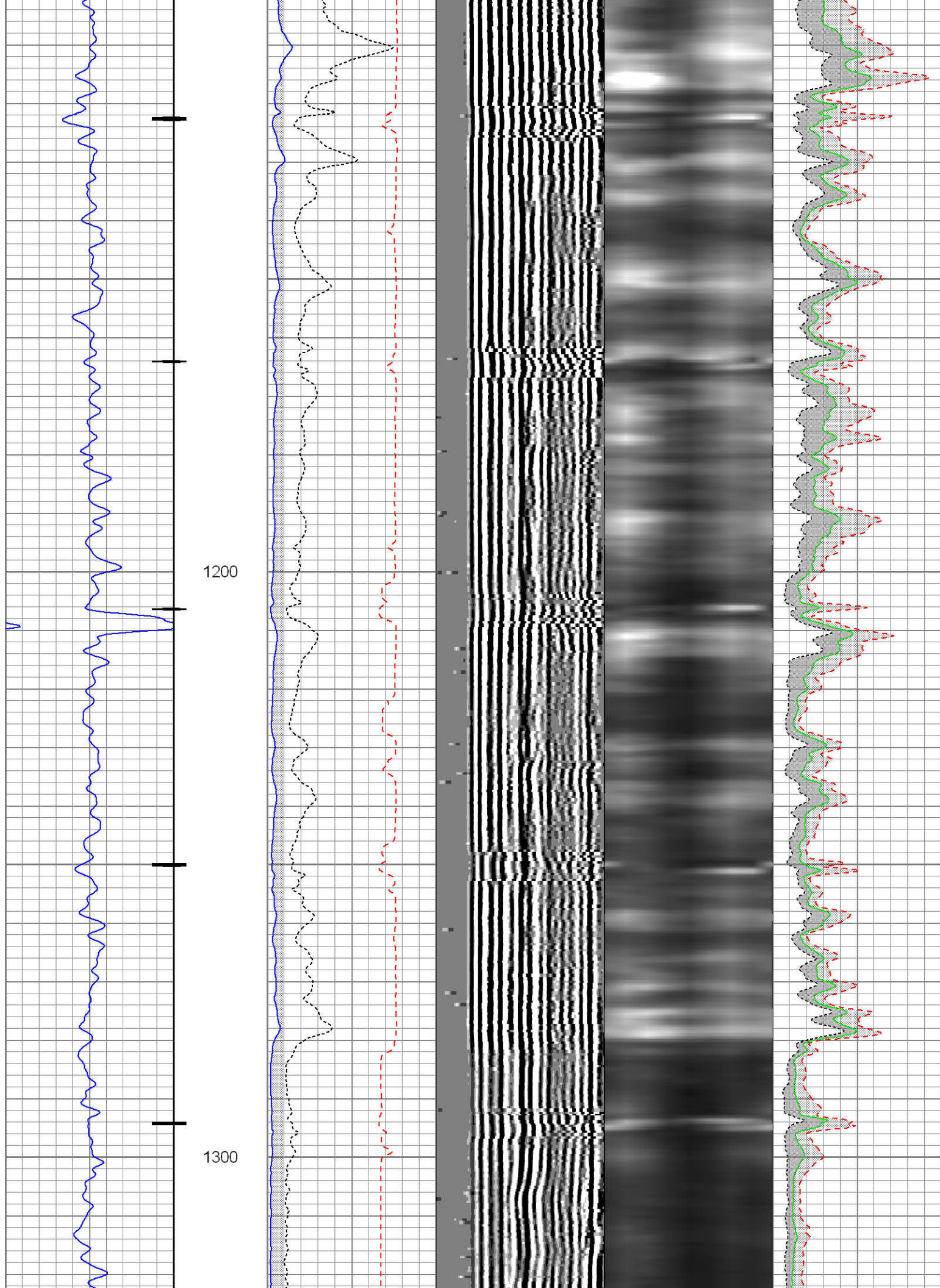


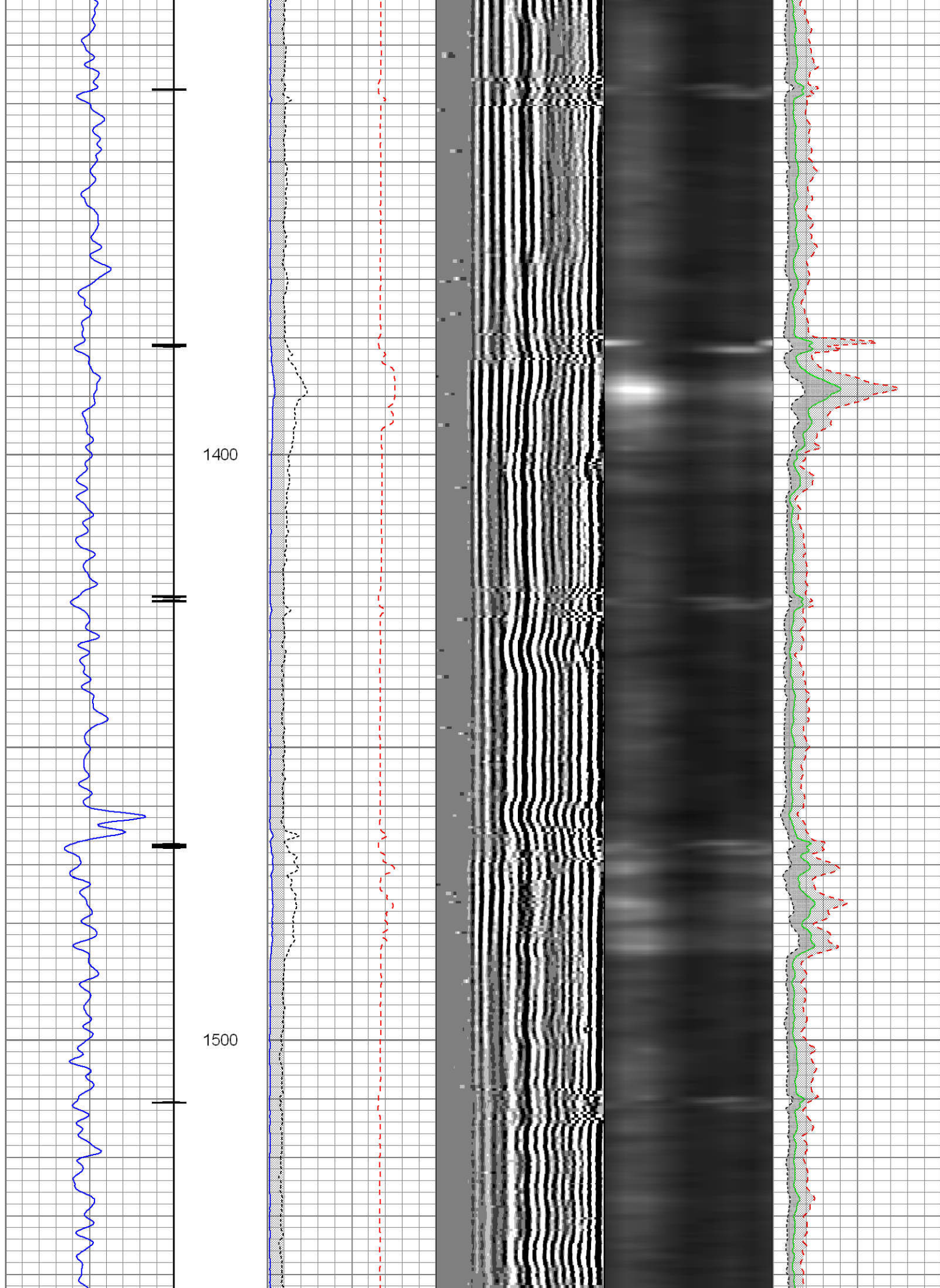


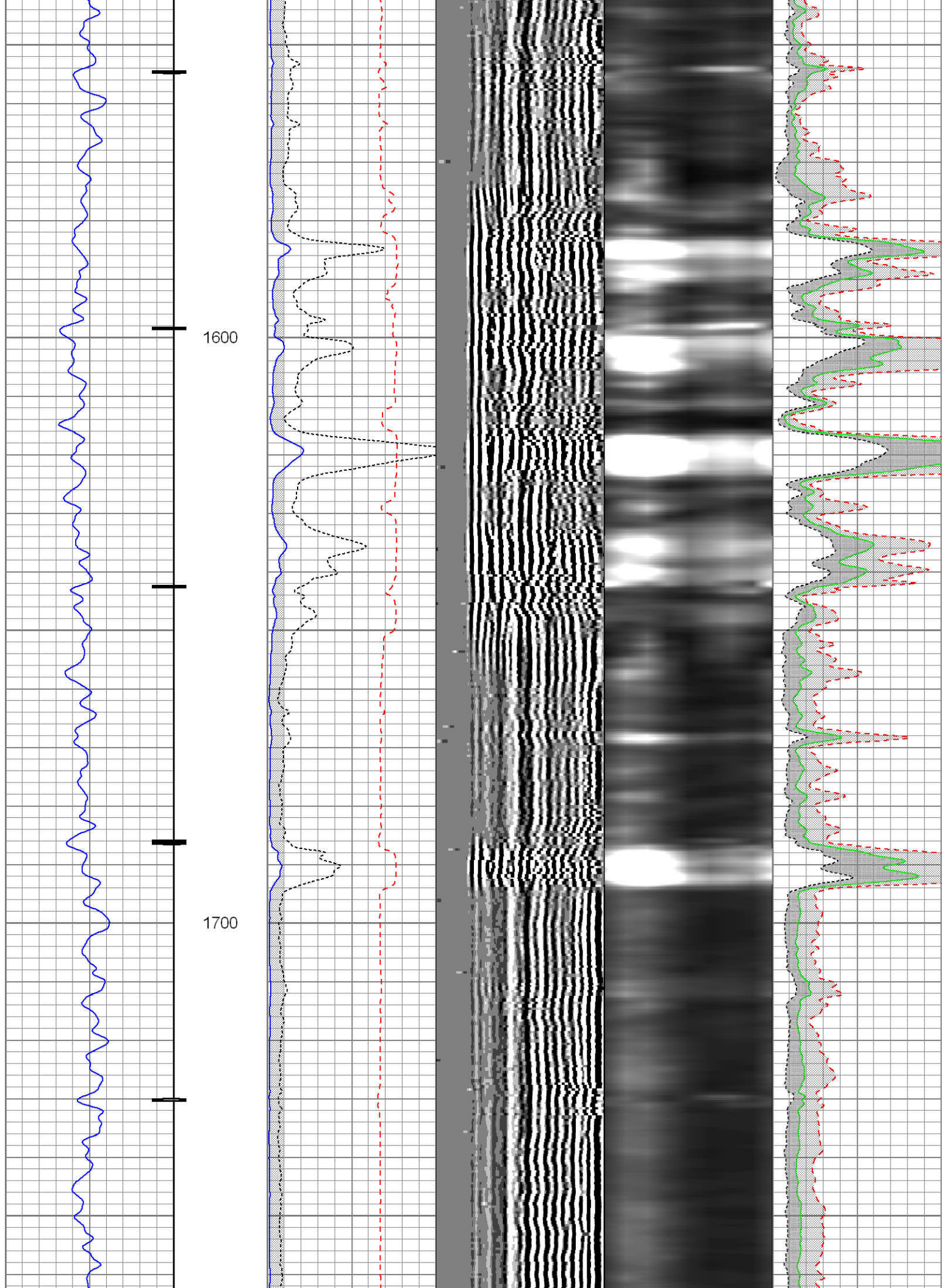


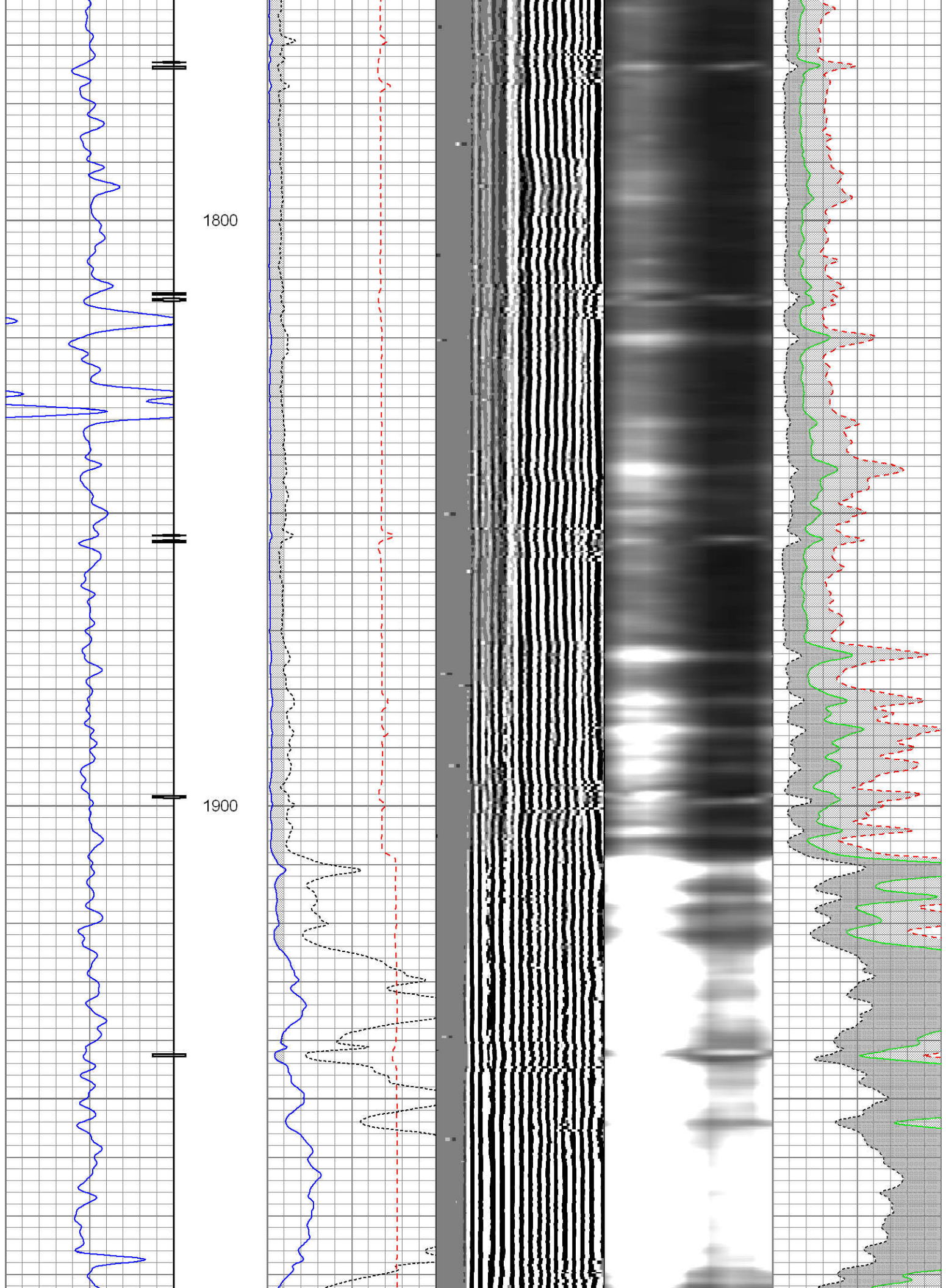


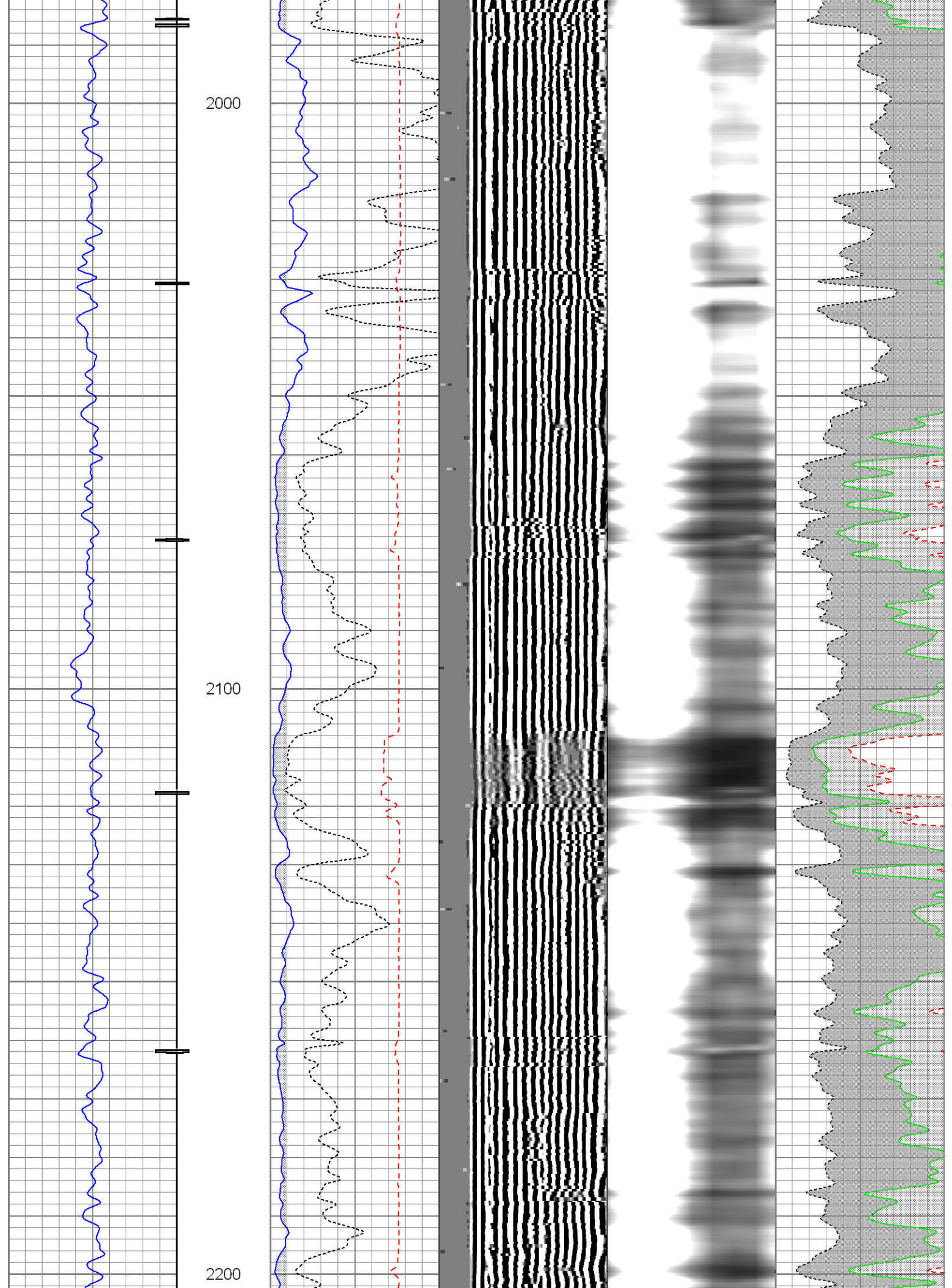


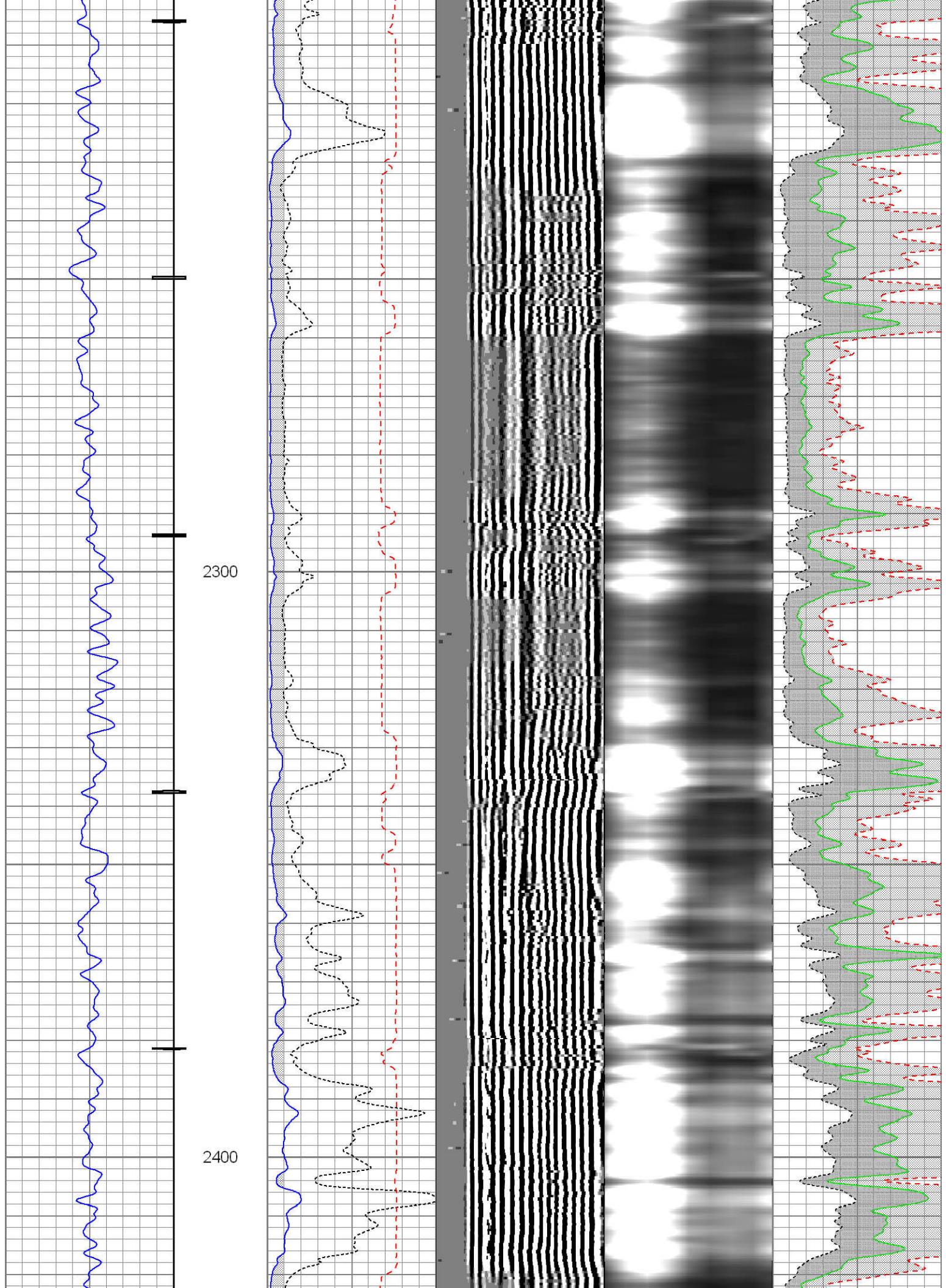


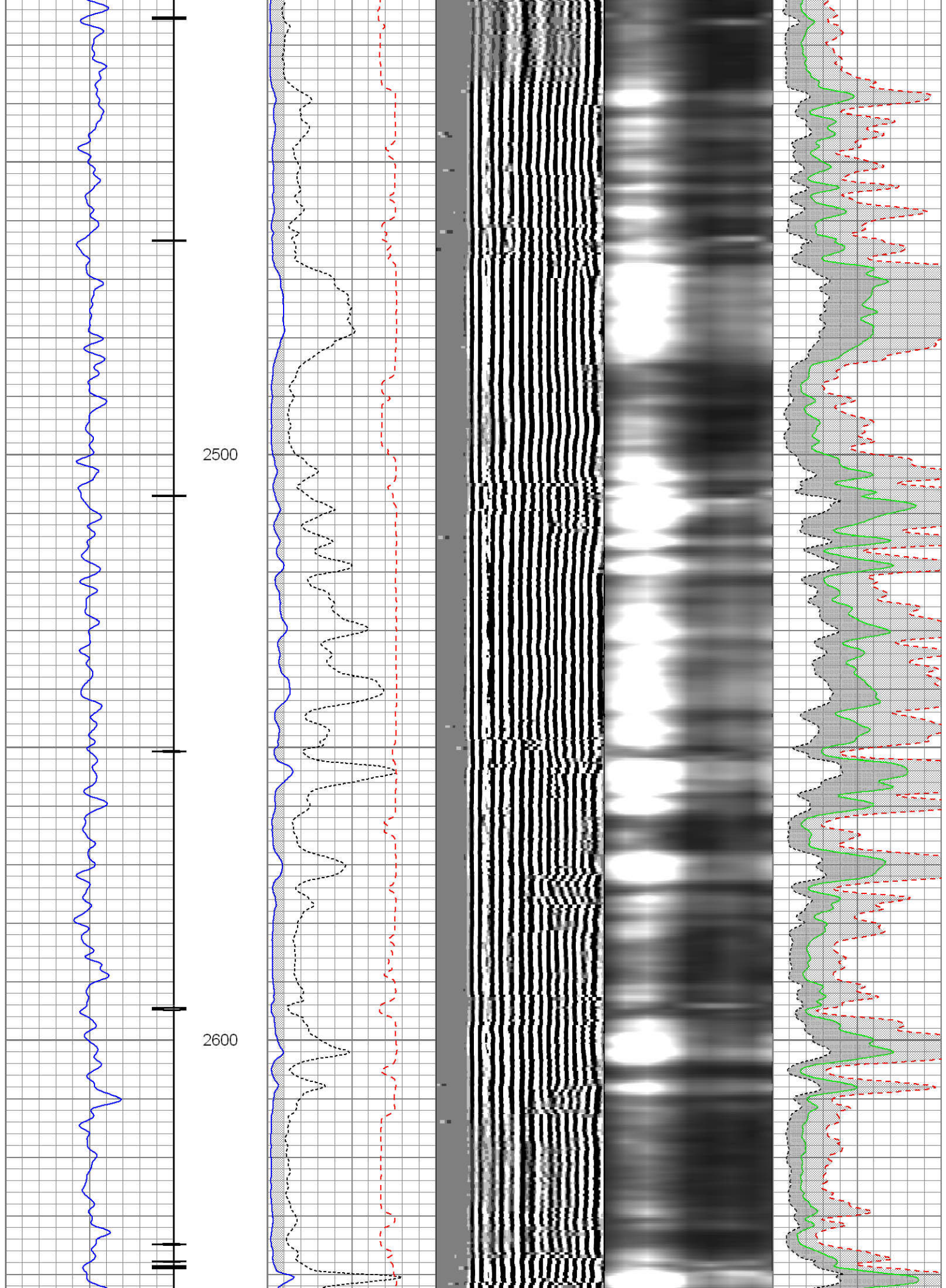


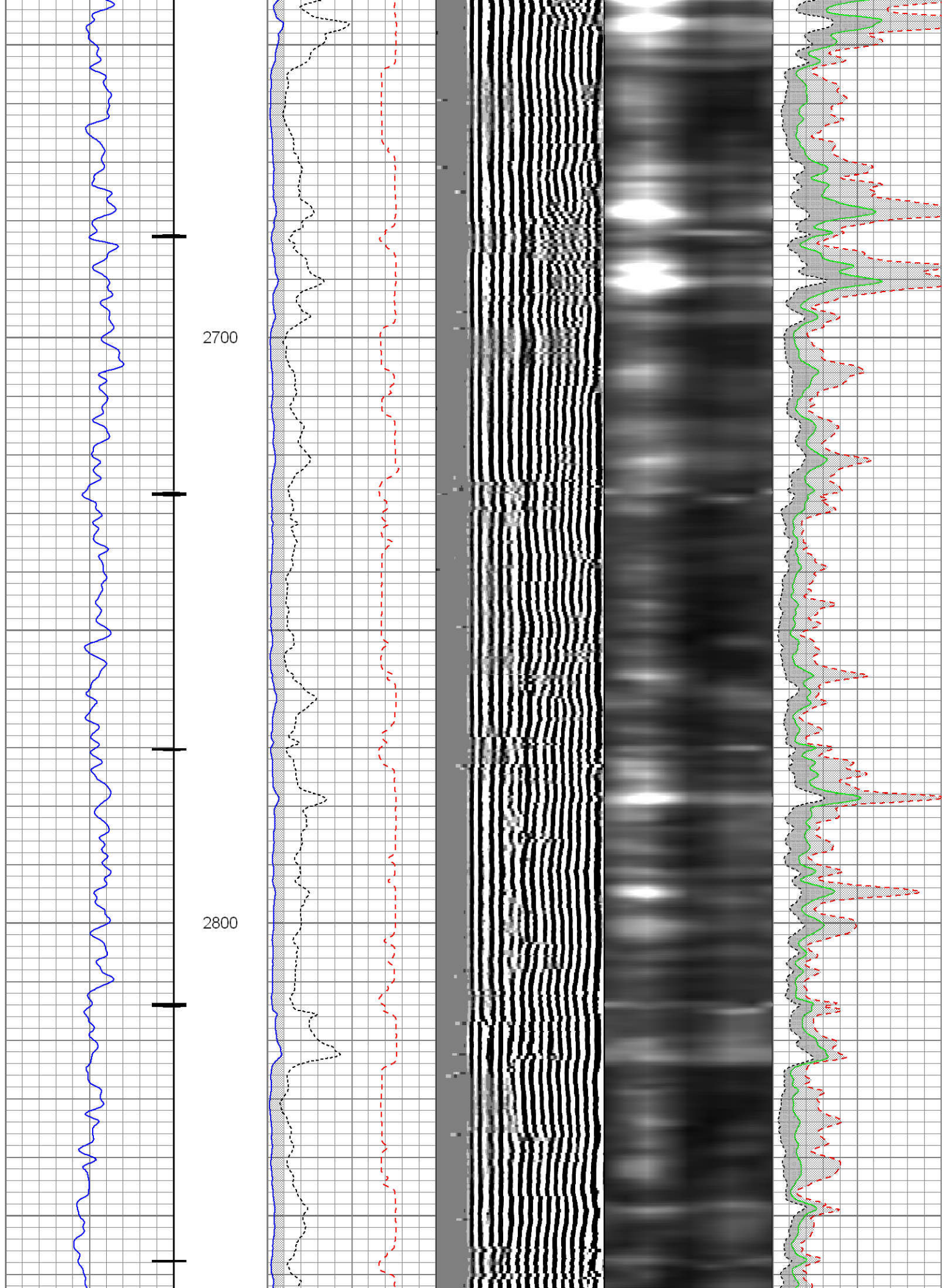


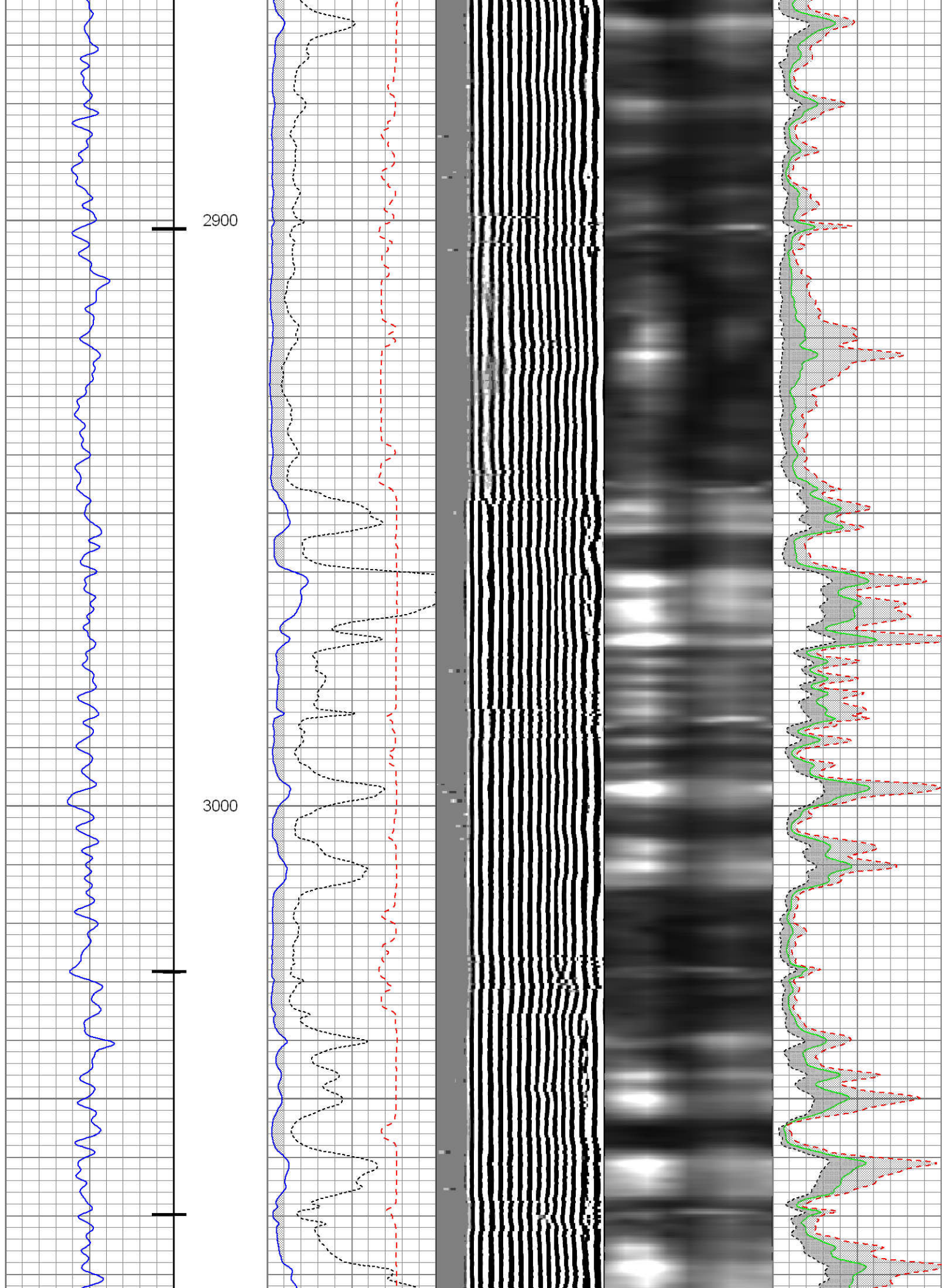


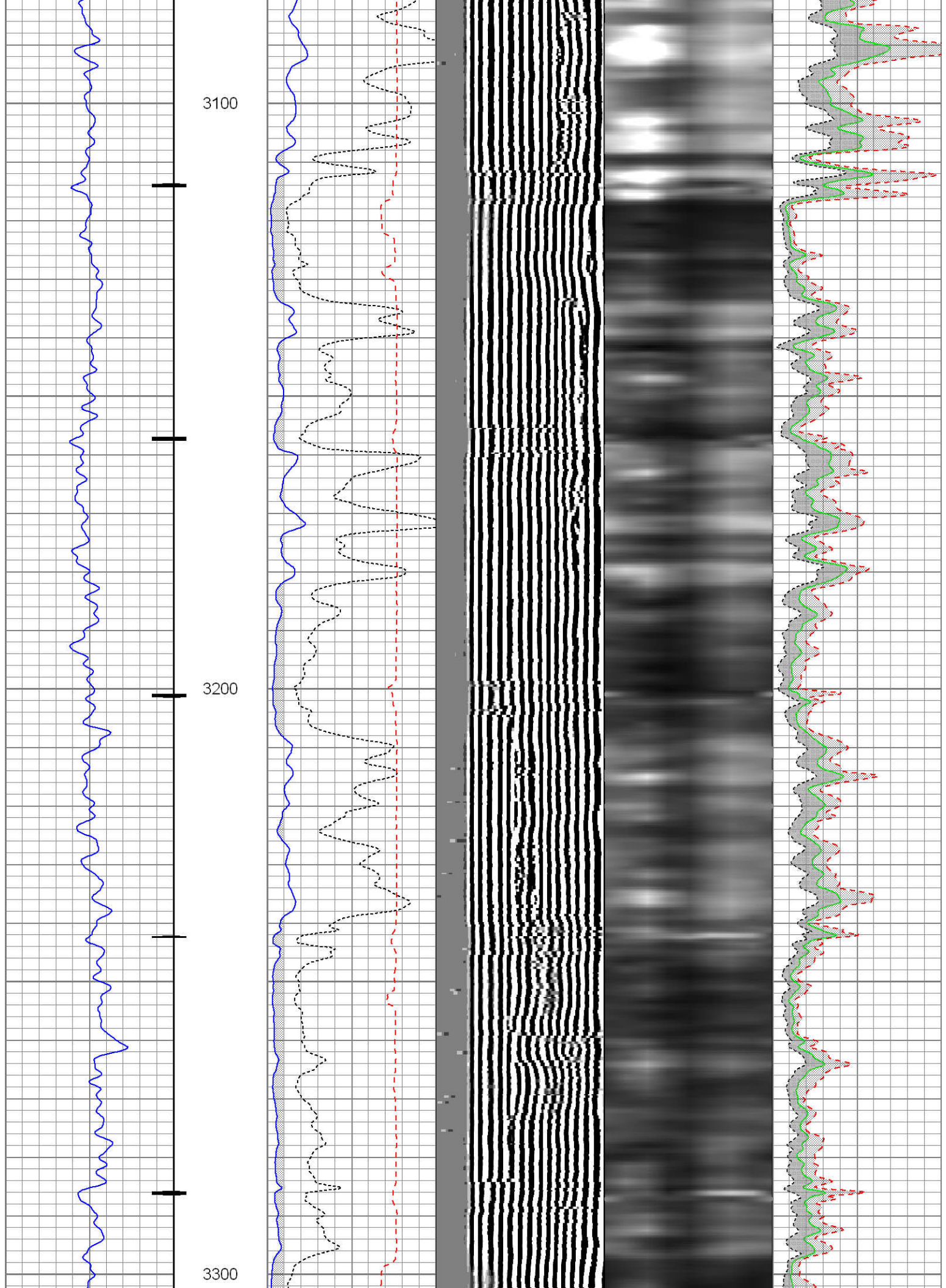


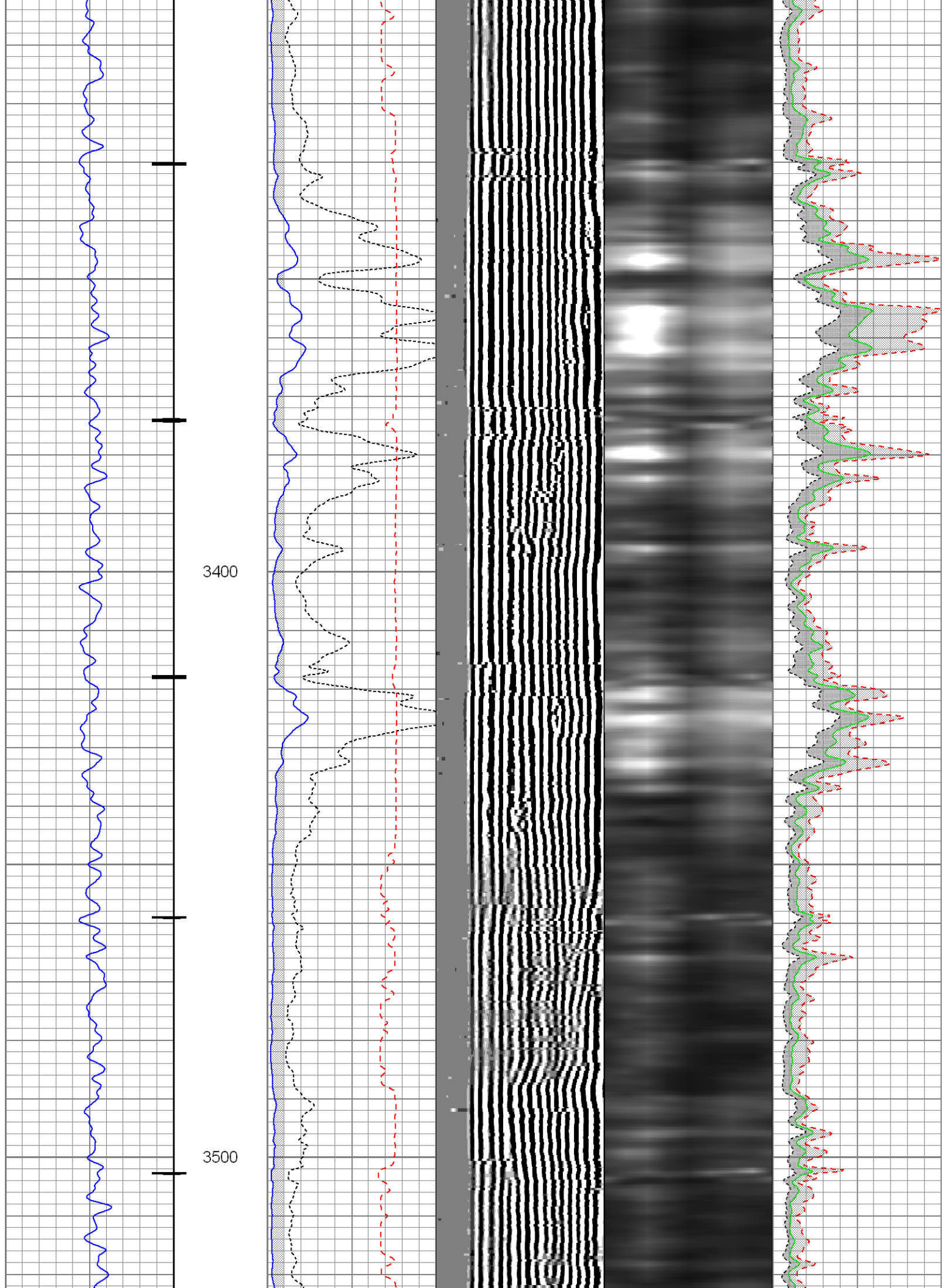


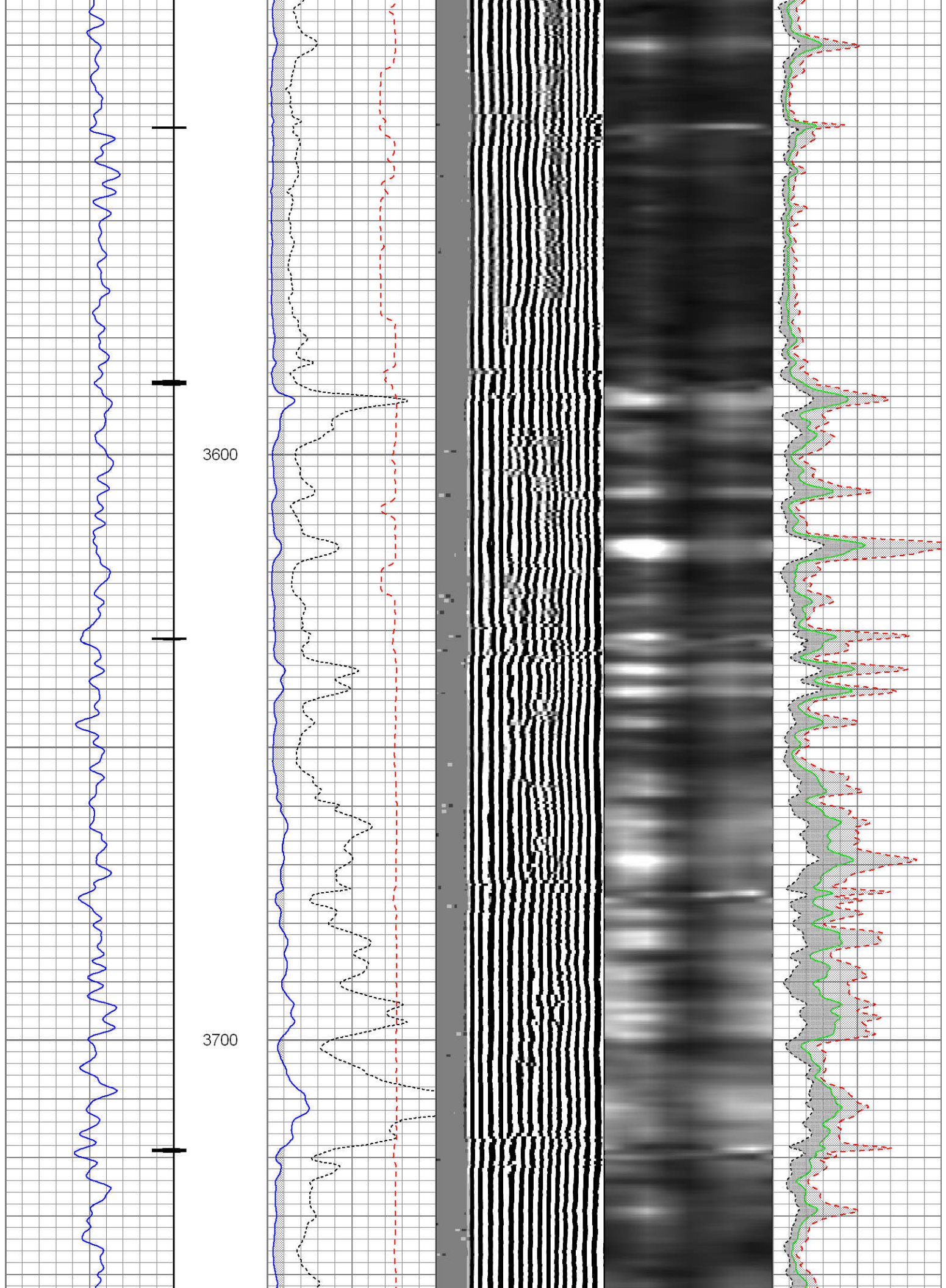


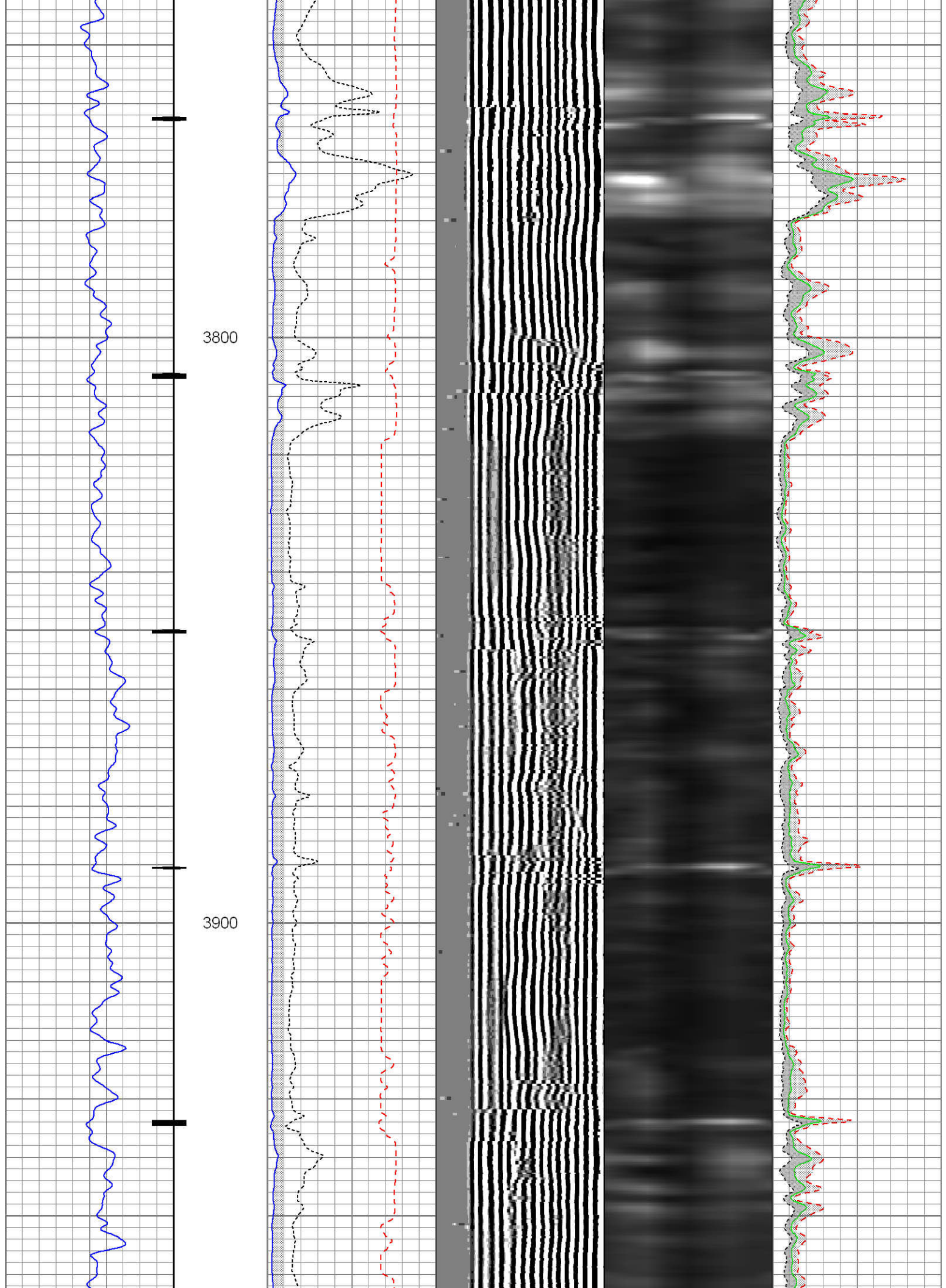


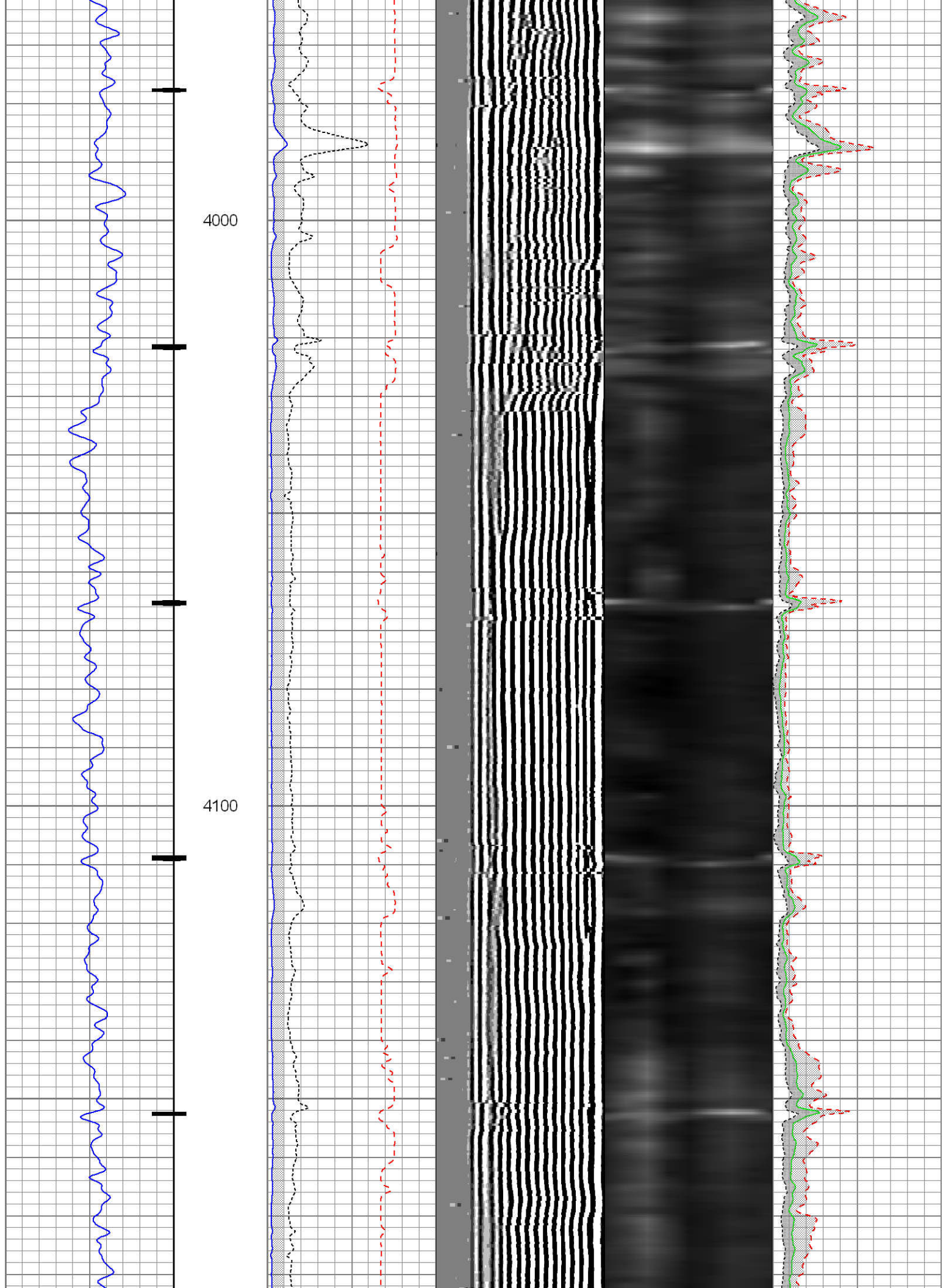


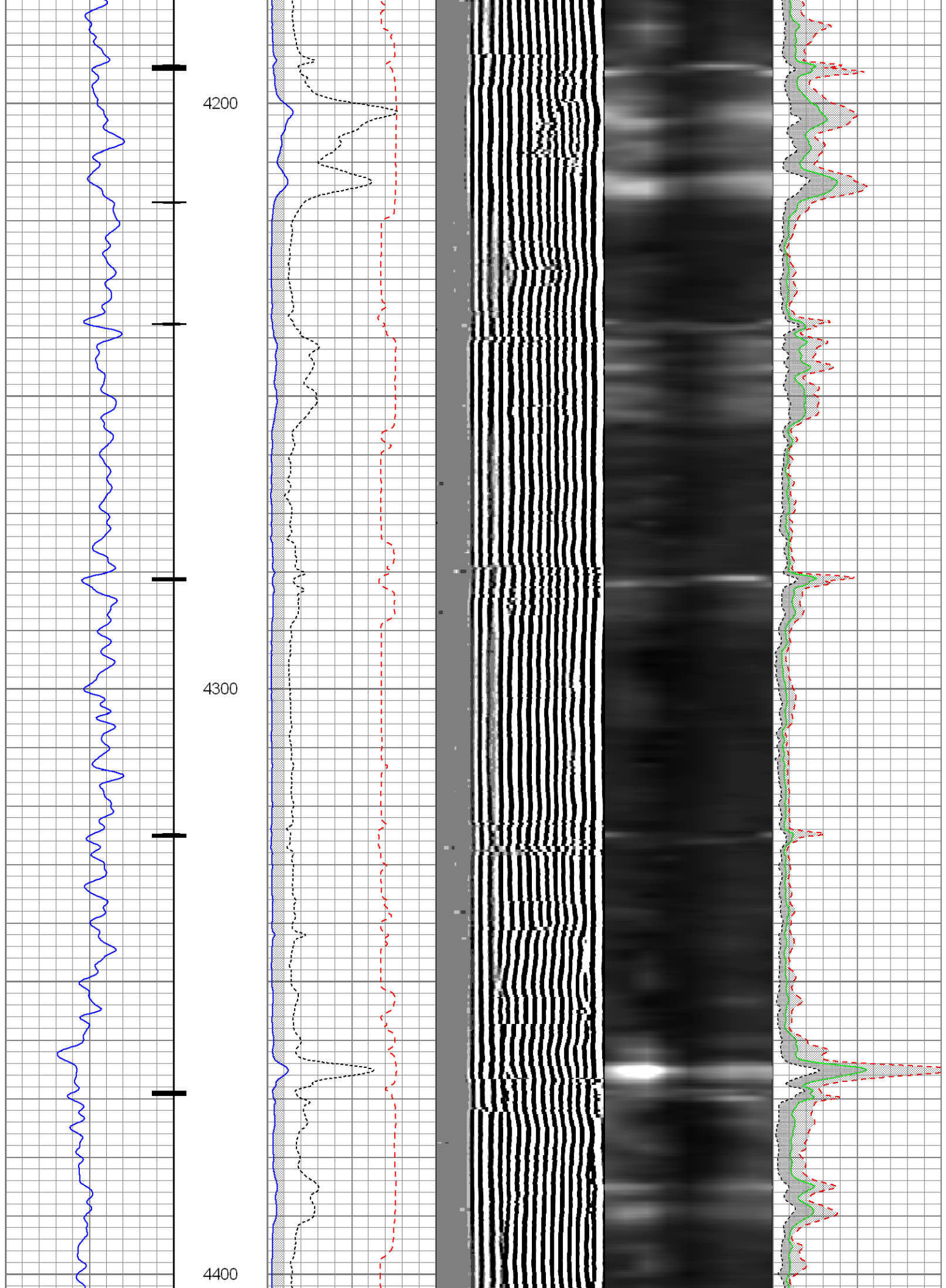


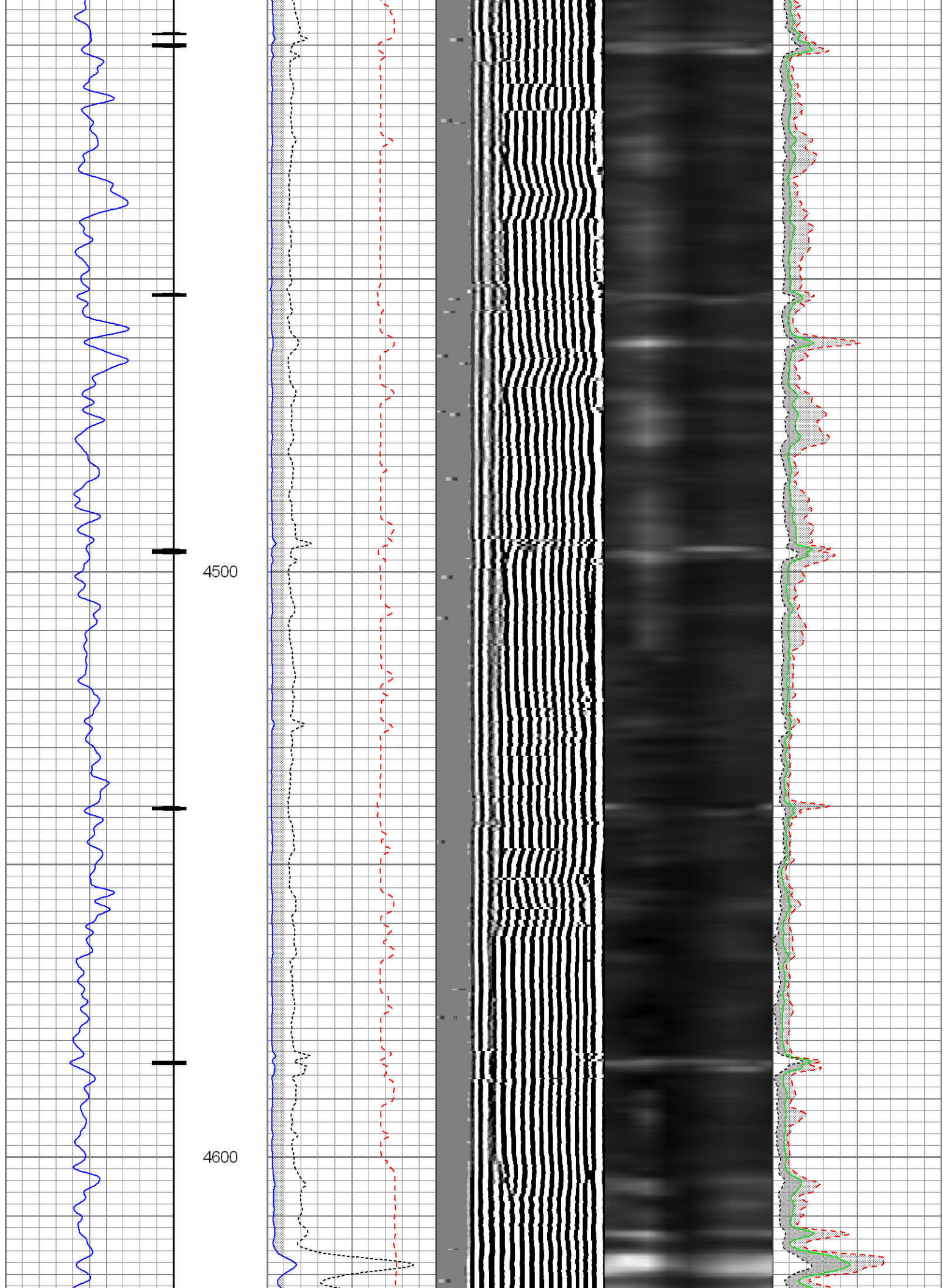


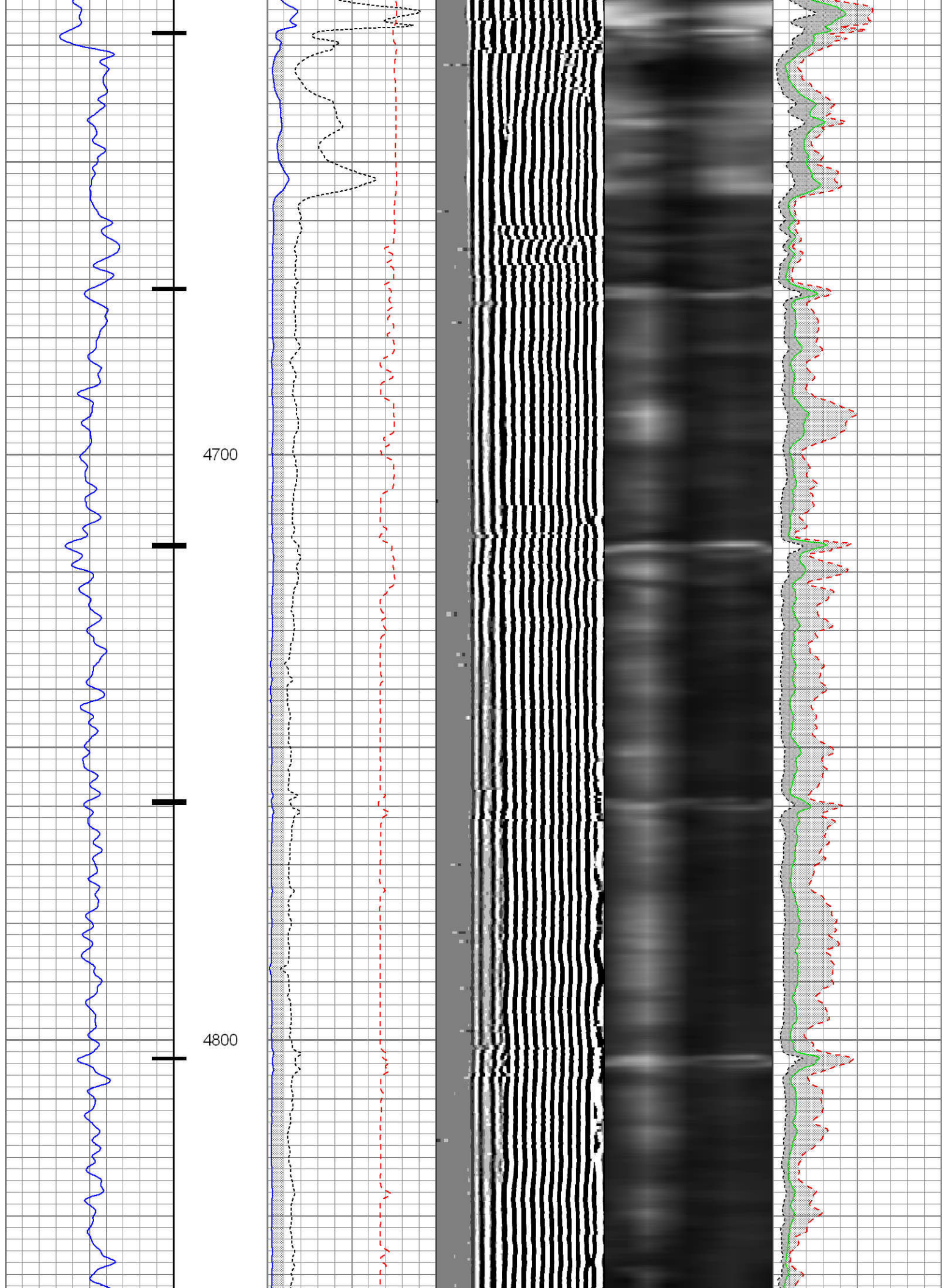


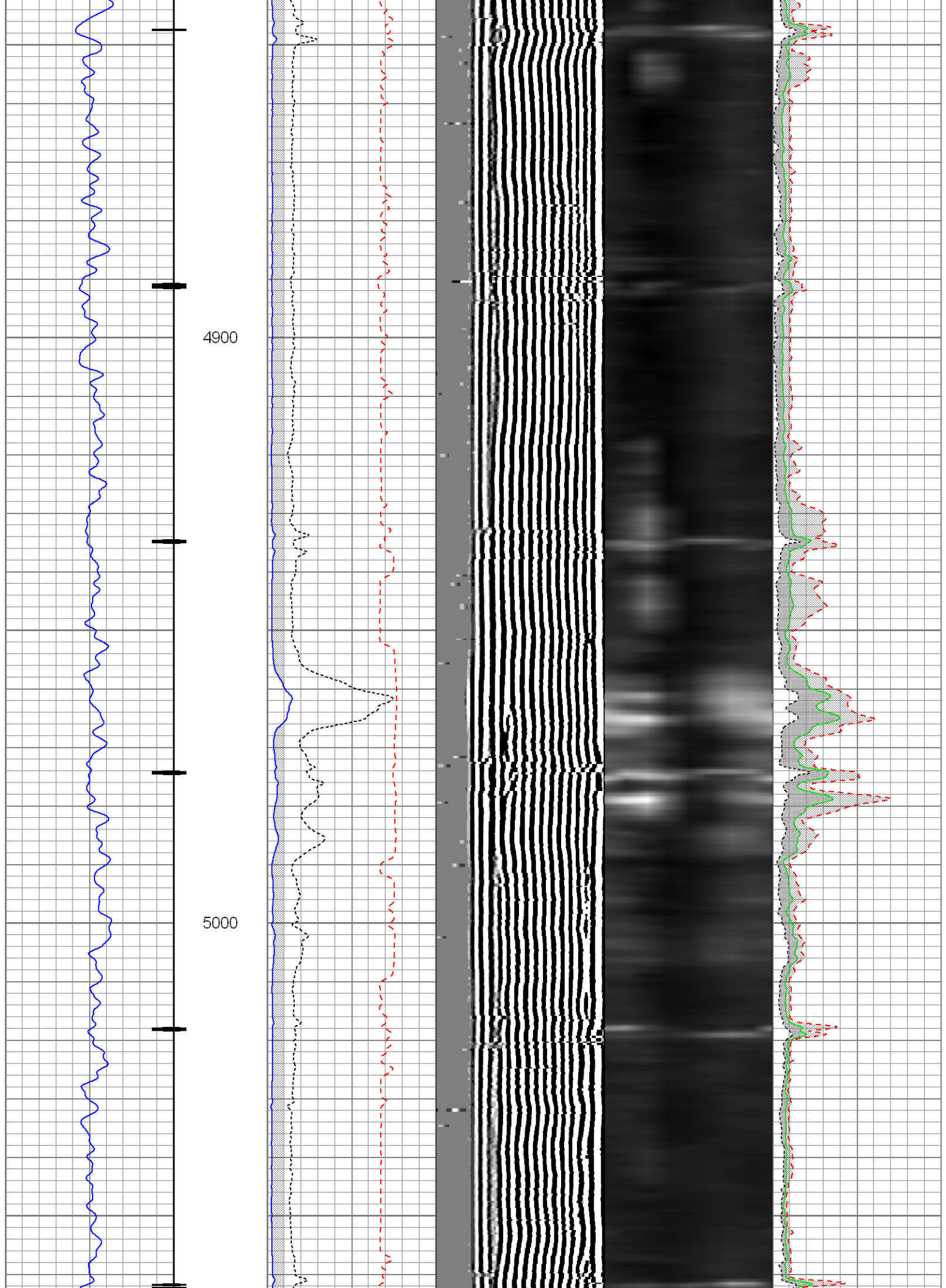


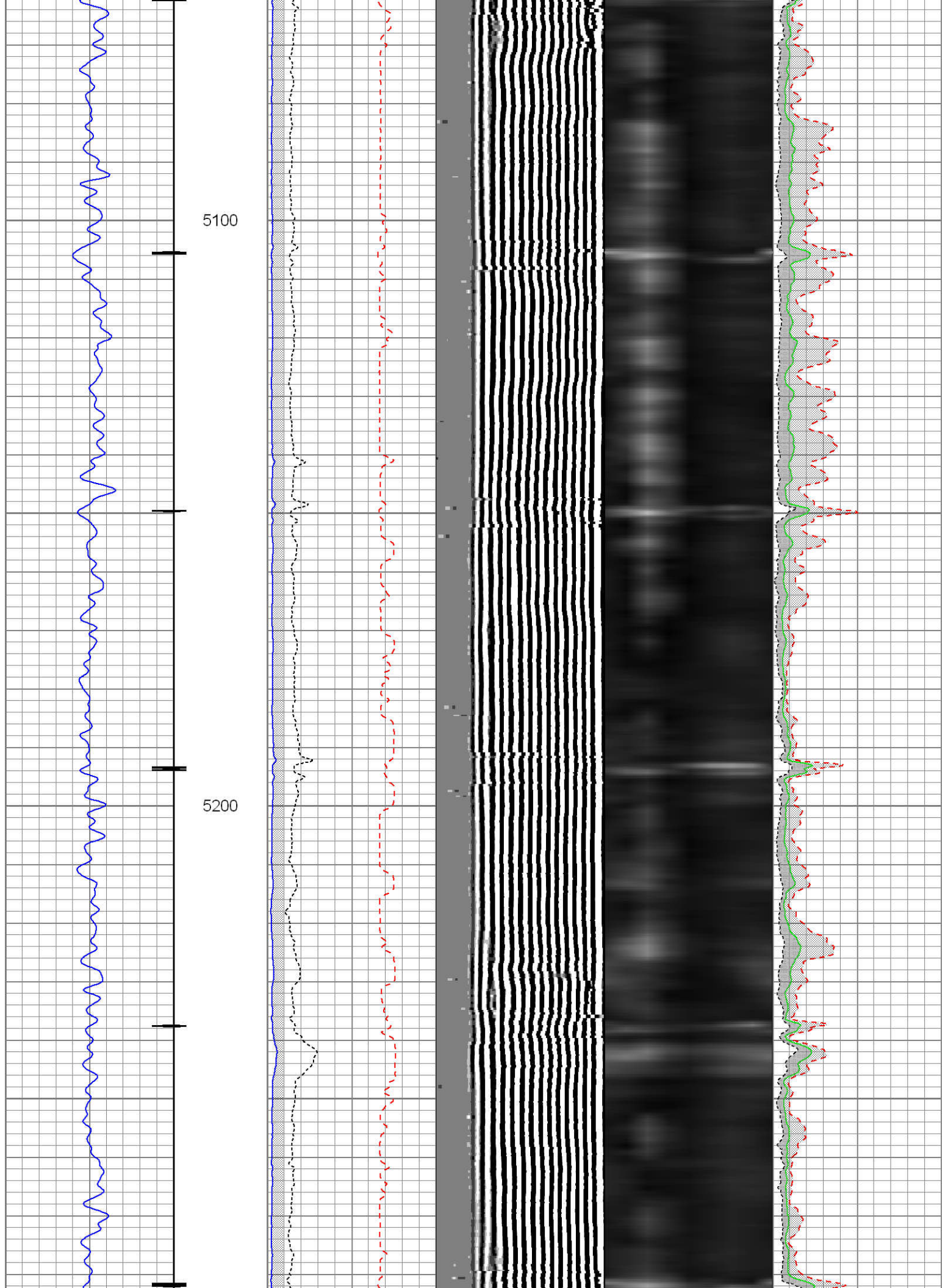


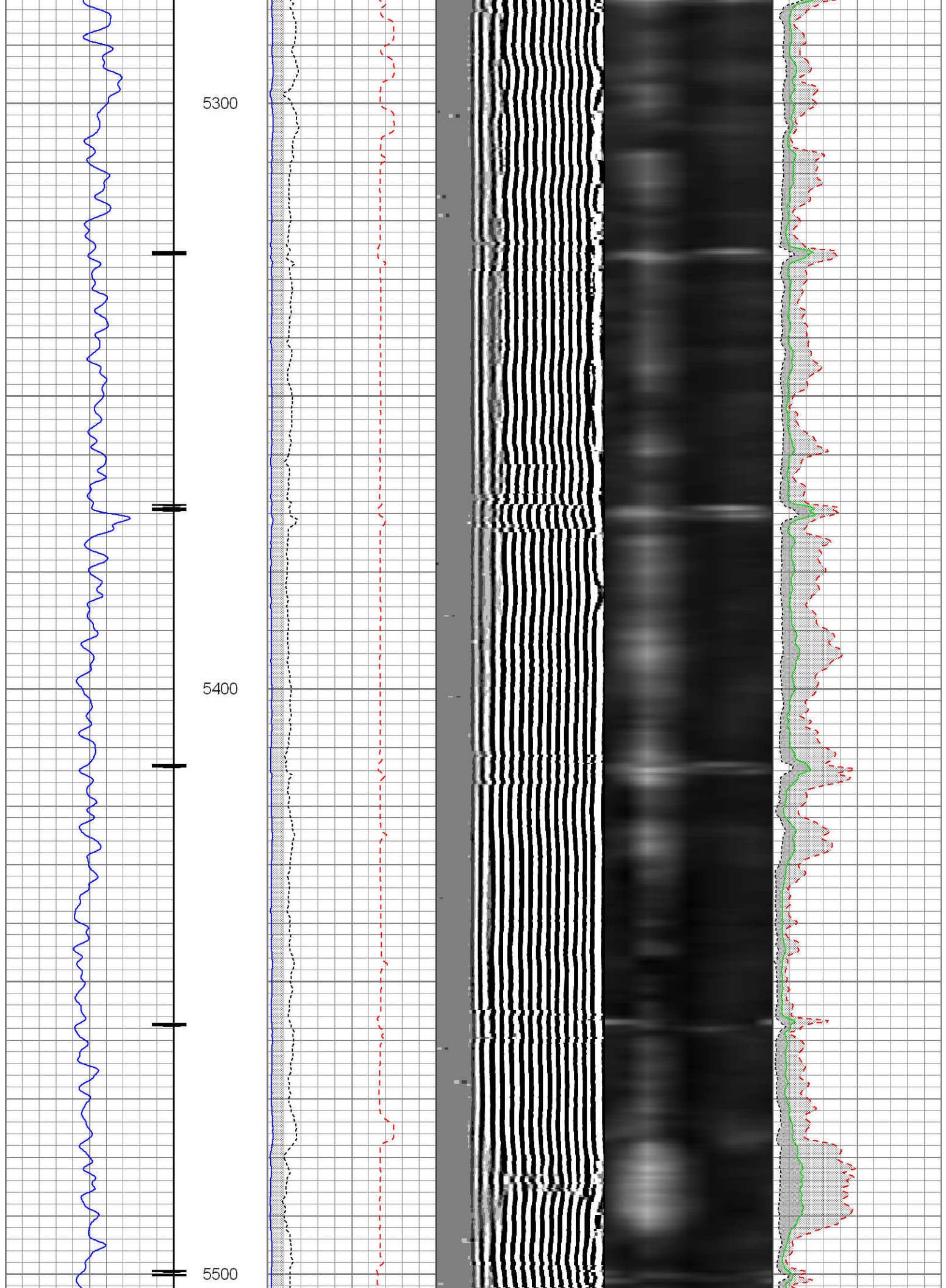


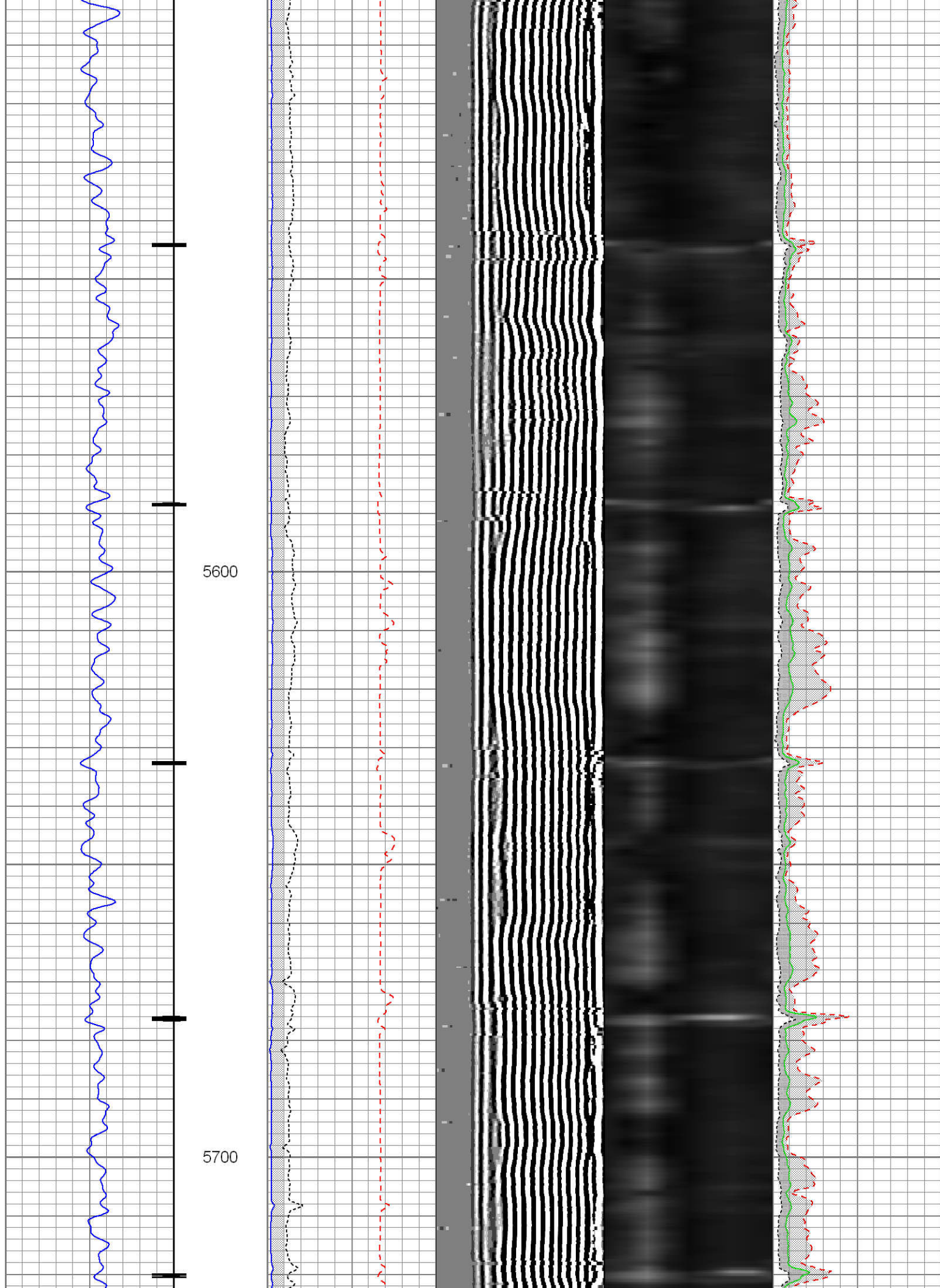


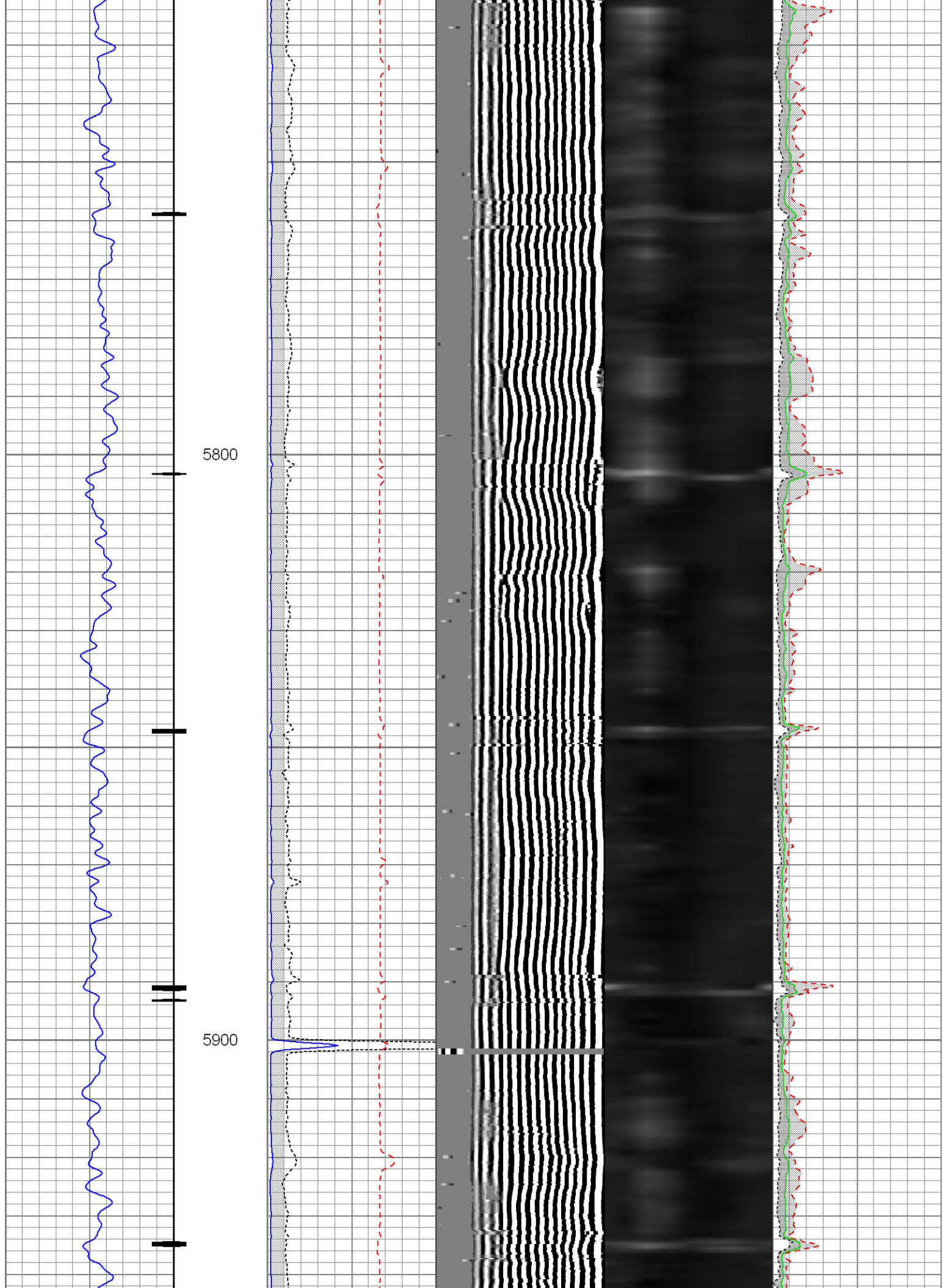


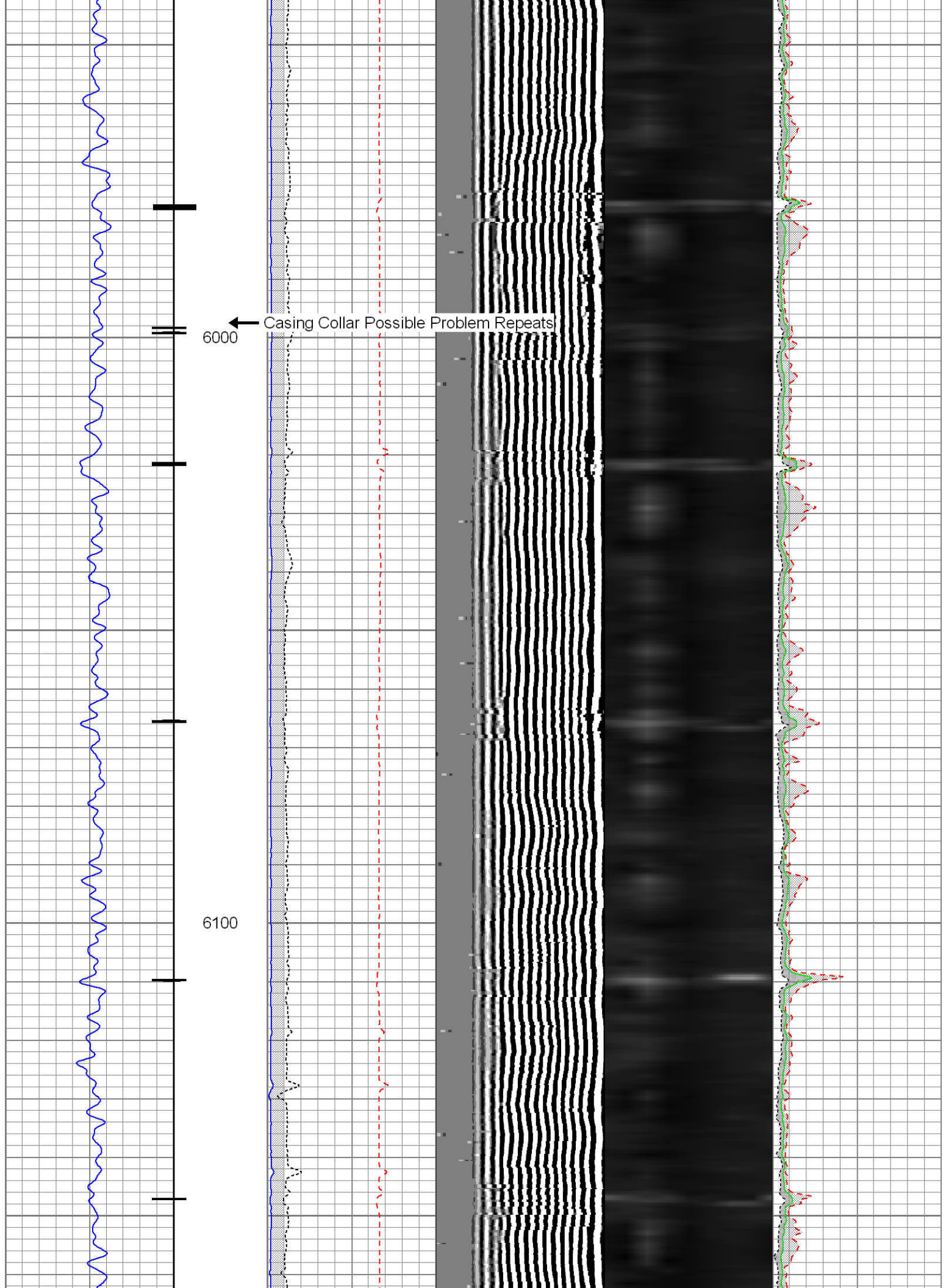


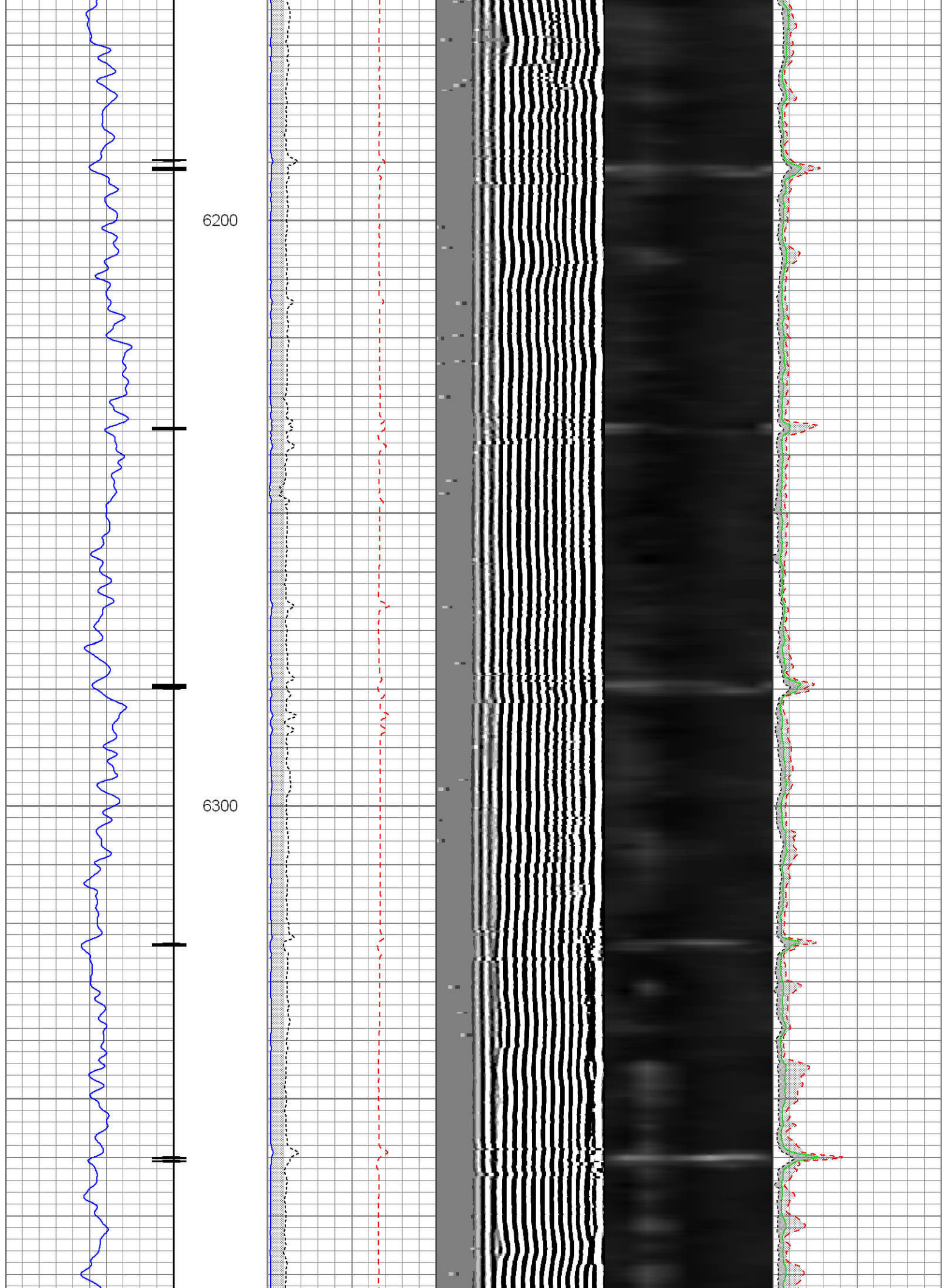


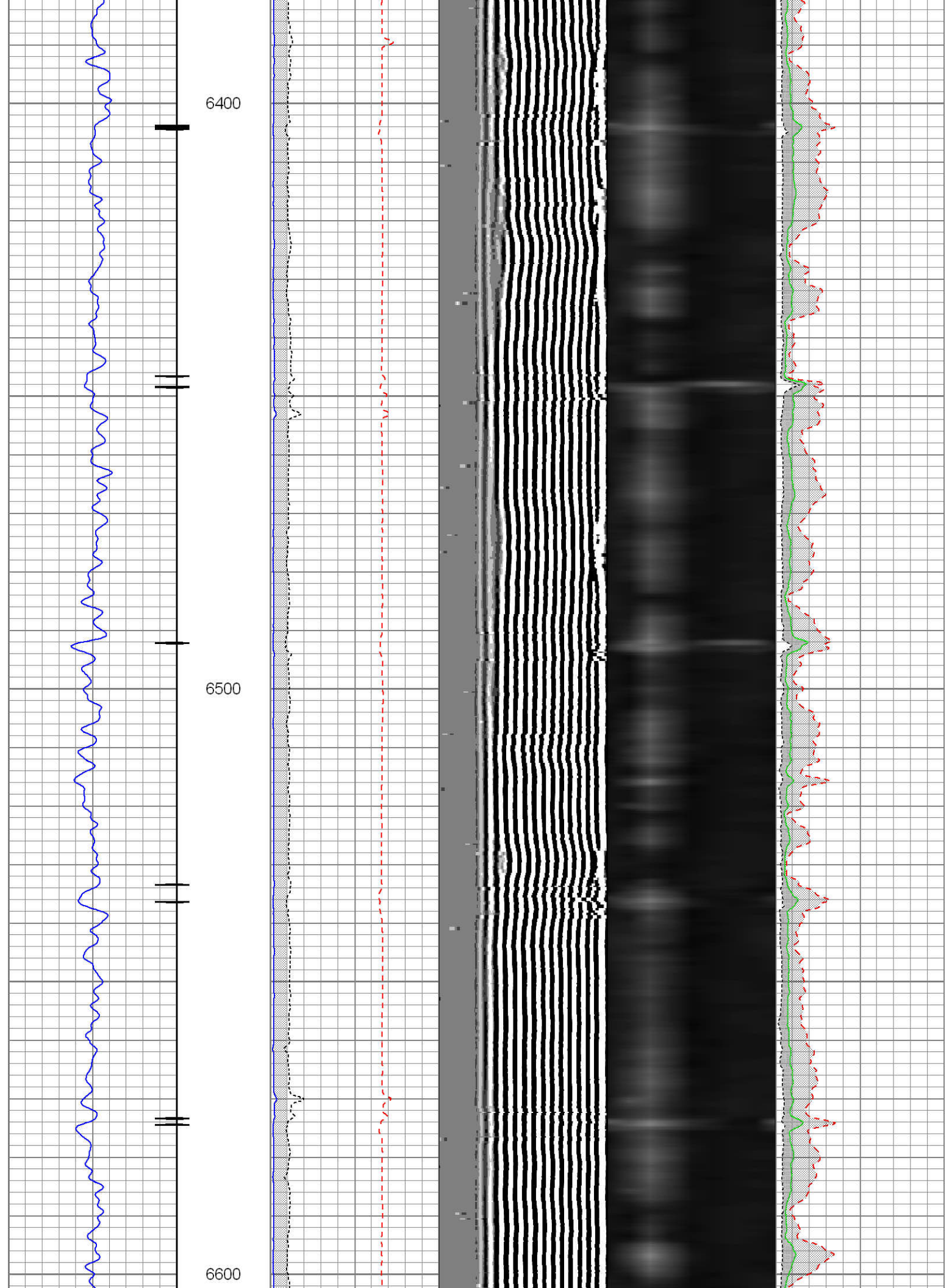


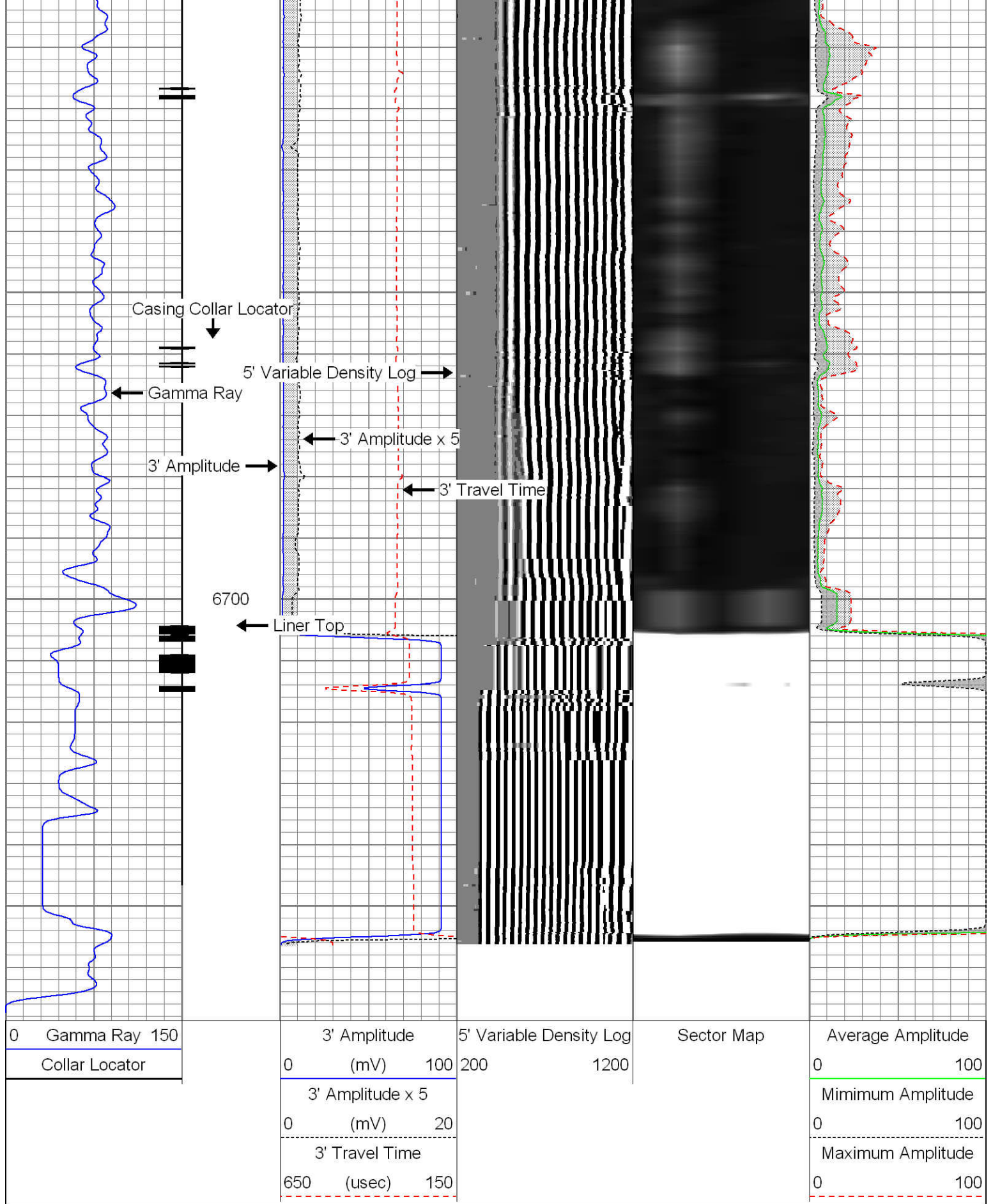


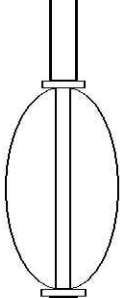
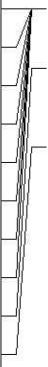
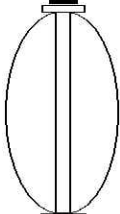










CCL	22.06		CCL_LOG-TypeA (AAAA) Comprobe 2-3/4" Logging CCL with short body	1.53	2.75	26.00
			Sondex_IL_Cent Sondex bowspring inline electrical centralizer - 32.875"	2.74	2.75	20.00
TEMP	15.84					
WVFS1	14.47		TekCo_RIB-Type_A (AAAA) TekCo 2-3/4" Radial Incremental Bond with piston compensator (with Temp)	9.56	2.75	123.00
WVFS2	14.47					
WVFS3	14.47					
WVFS4	14.47					
WVFS5	14.47					
WVFS6	14.47					
WVFS7	14.47					
WVFS8	14.47					
WVF3FT	13.72					
WVF5FT	12.72					
WVFCAL	8.93					
WVFTEMP	8.93					
WVFSYNC	8.93		Sondex_IL_Cent Sondex bowspring inline electrical centralizer - 32.875"	2.74	2.75	20.00
GR	3.78		GR-TypeA (AAAA) Comprobe 2-3/4" Scintillating Gamma Ray (Low Temp)	3.45	2.75	38.00
			Sondex_IL_Cent Sondex bowspring inline electrical centralizer - 32.875"	2.74	2.75	20.00
<div>Dataset: west nichols well.db: field/well/run1/pass10</div> <div>Total Length: 23.80 ft</div> <div>Total Weight: 249.00 lb</div> <div>O.D. 2.75 in</div>						

