



**RADIAL CEMENT BOND
GAMMA RAY
CASING COLLAR LOG**

Company		KERR-McGEE OIL & GAS ONSHORE, L.P.	
Well		Niles 29N-28HZ	
Field		Wattenburg	
County		Weld	
State		Colorado	
Company		KERR-McGEE OIL & GAS ONSHORE, L.P.	
Well		Niles 29N-28HZ	
Field		Wattenburg	
County		Weld	
State		Colorado	
Location:		API # : 05-123-35494	
Permanent Datum		SHL: 408' FSL & 458' FWL	
Log Measured From		GROUND LEVEL Elevation 4935	
Drilling Measured From		KELLY BUSHING 13'	
SEC 28 TWP 3N RGE 66W		Other Services Gauge run Plug	
Elevation		K.B. 4948 D.F. 4936 G.L. 4935	
Date		22-Feb-2013	
Run Number		Three	
Depth Driller		---	
Depth Logger		6672	
Bottom Logged Interval		6670	
Top Log Interval		620	
Open Hole Size		9.625"	
Type Fluid		Water	
Density / Viscosity		8.34 LB/GAL	
Max. Recorded Temp.		---	
Estimated Cement Top		ROA	
Time Well Ready		2:30 PM	
Time Logger on Bottom		HD 134	
Equipment Number		FORT LUPTON, CO	
Location		Patrick Grimes	
Recorded By		Jordan Kejr	
Witnessed By			
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		Wgt/Ft	
Prot. String		36	
Production String		Top	
Liner		Bottom	
7		26	
4 1/2		11.6	
		SURFACE	
		6632	
		7574	
		11746	

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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.

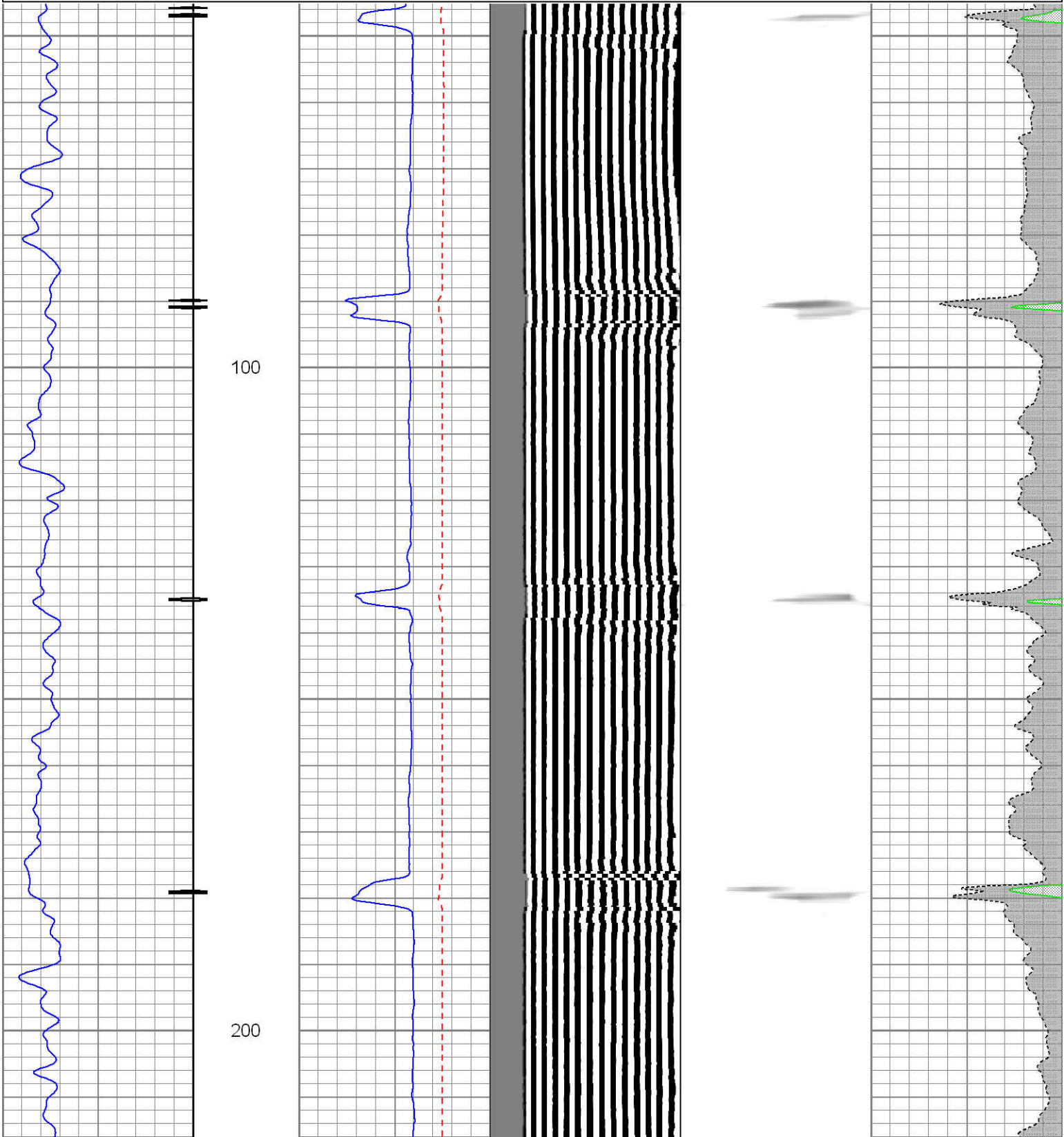
Comments

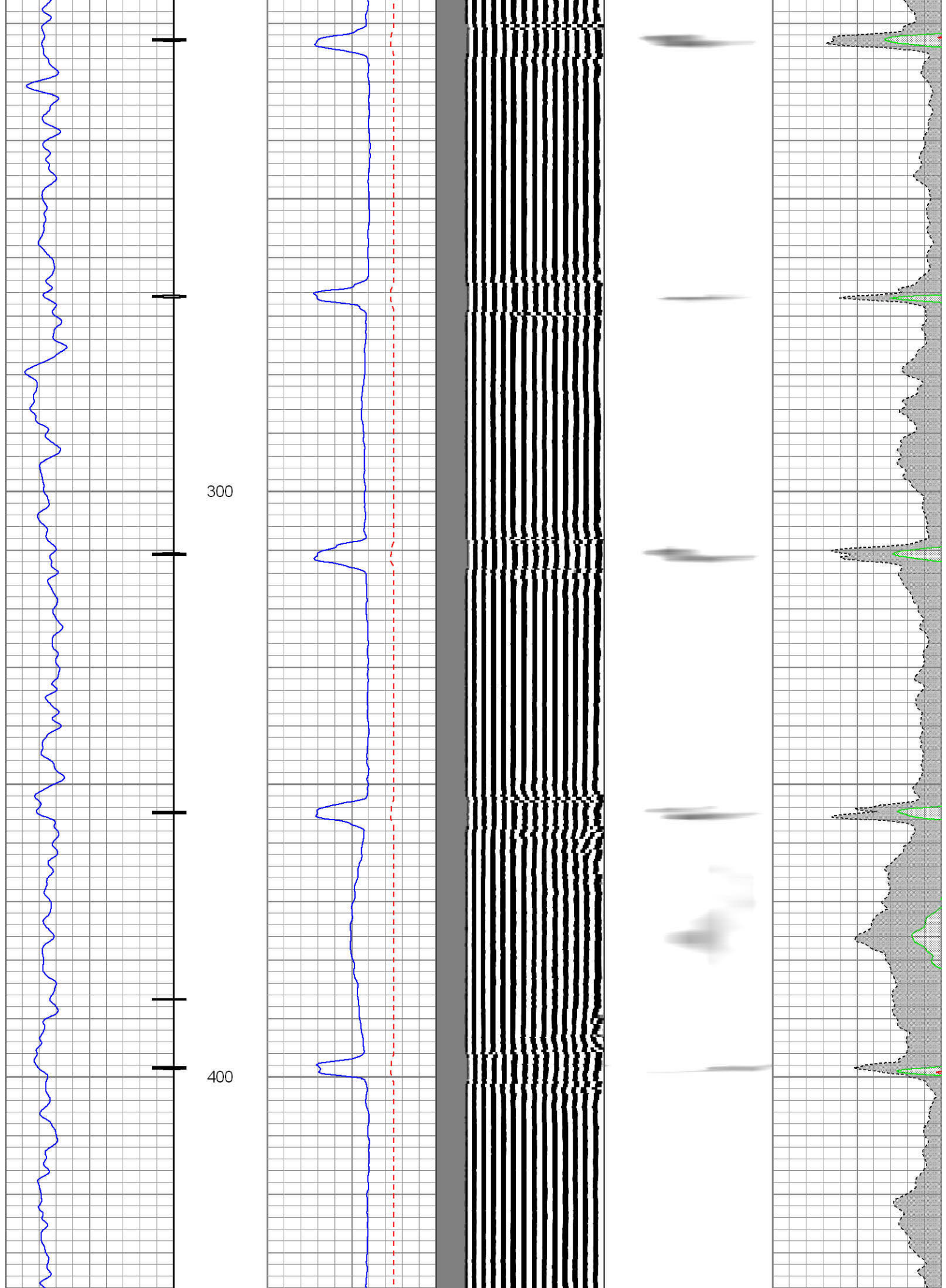
RADIAL CEMENT BOND IS PRIMARY LOG
CORRELATED TO CASING TALLY REPORTED LINER TOP @ 6632
RUN CBL FROM JUST BELOW LINER TOP TO SURFACE
RCBL LOGGED WITH 2800 PSI INDUCED PRESSURE @ SURFACE
ESTIMATED TOP OF CEMENT @ 620'
CORRECTED -11' @ LINER TOP WITH ZERO @ KB

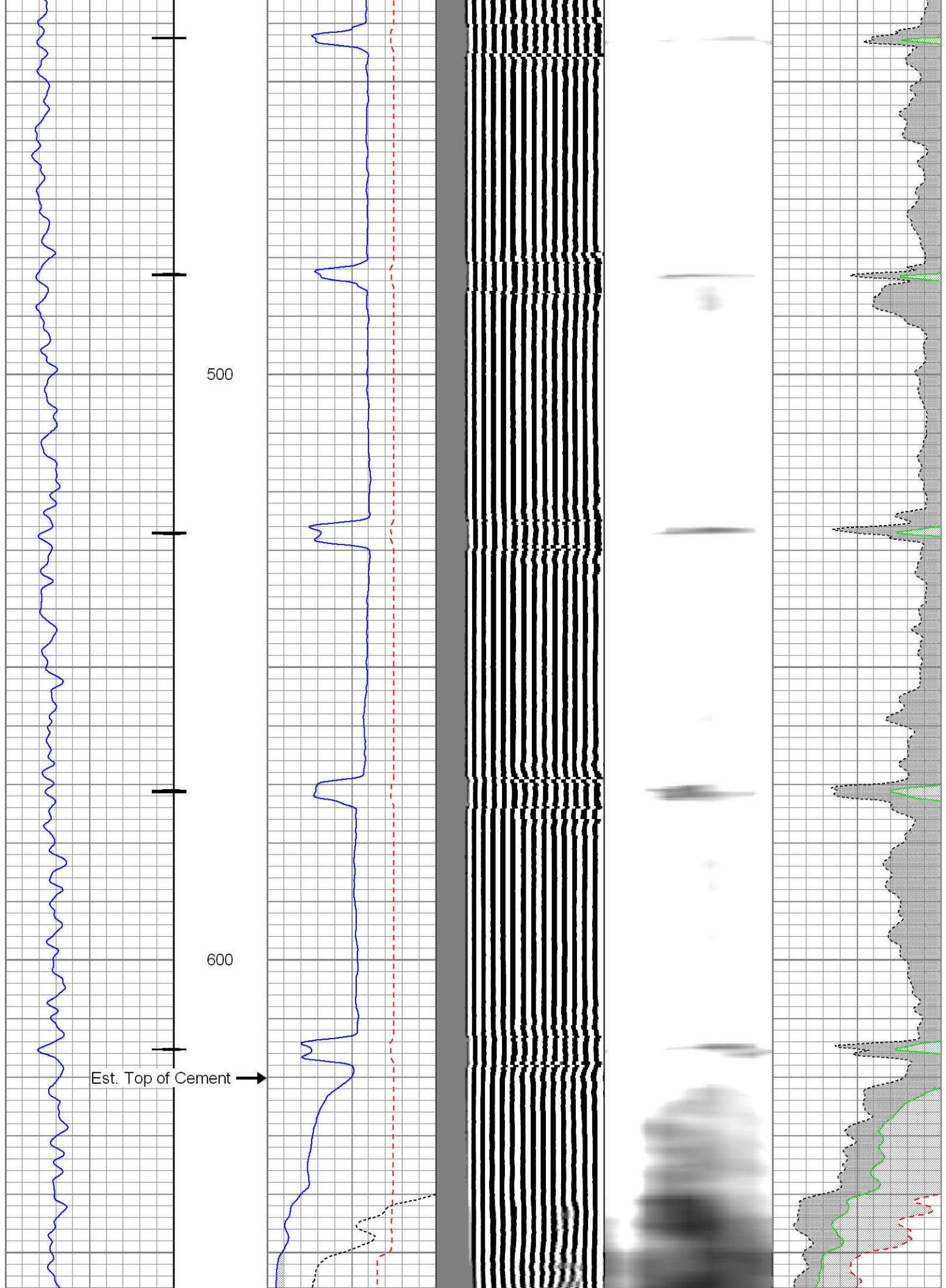
THANK YOU FOR USING PURE ENERGY WIRELINE AN FMC TECHNOLOGIES COMPANY

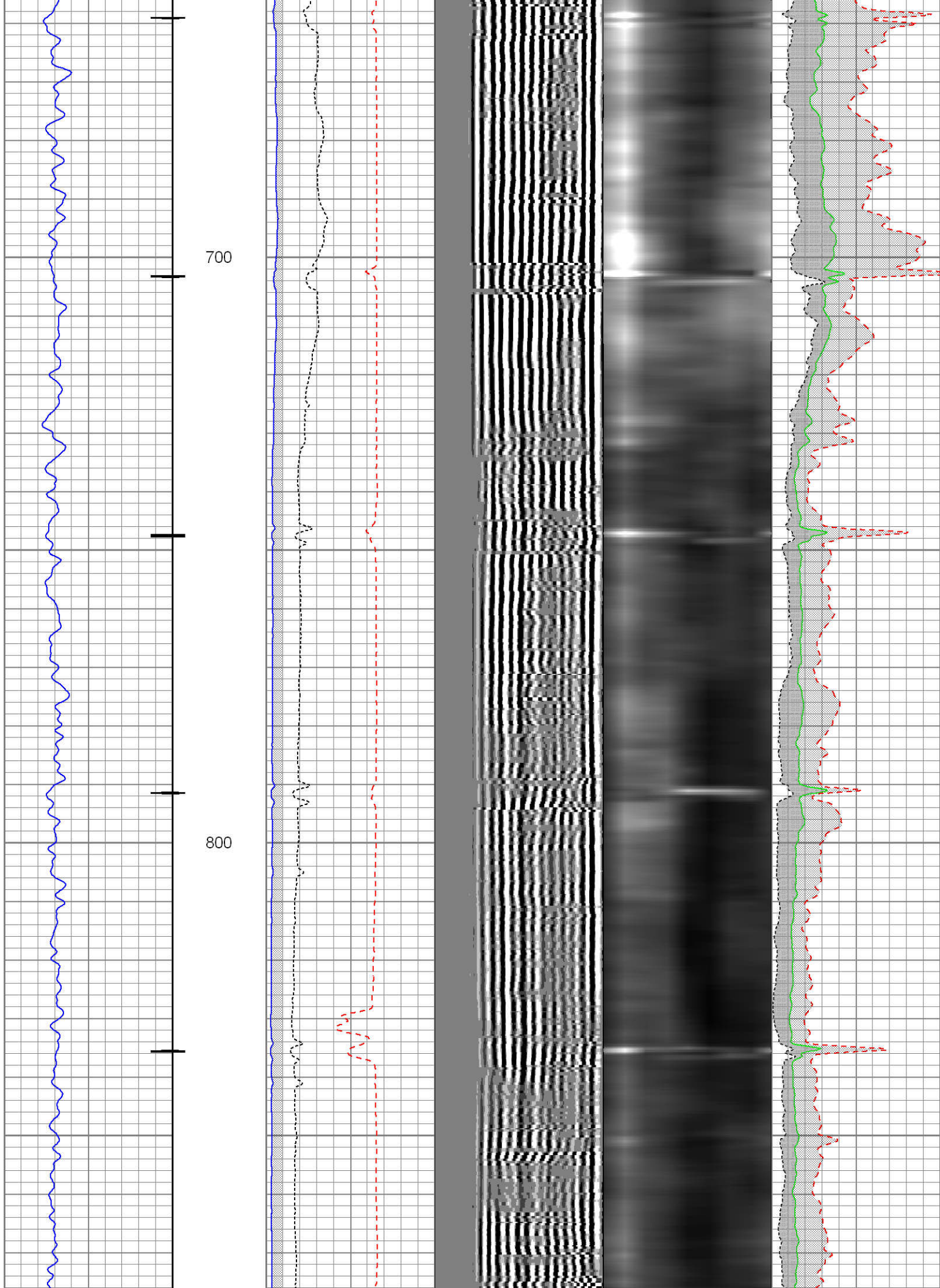
Main Pass

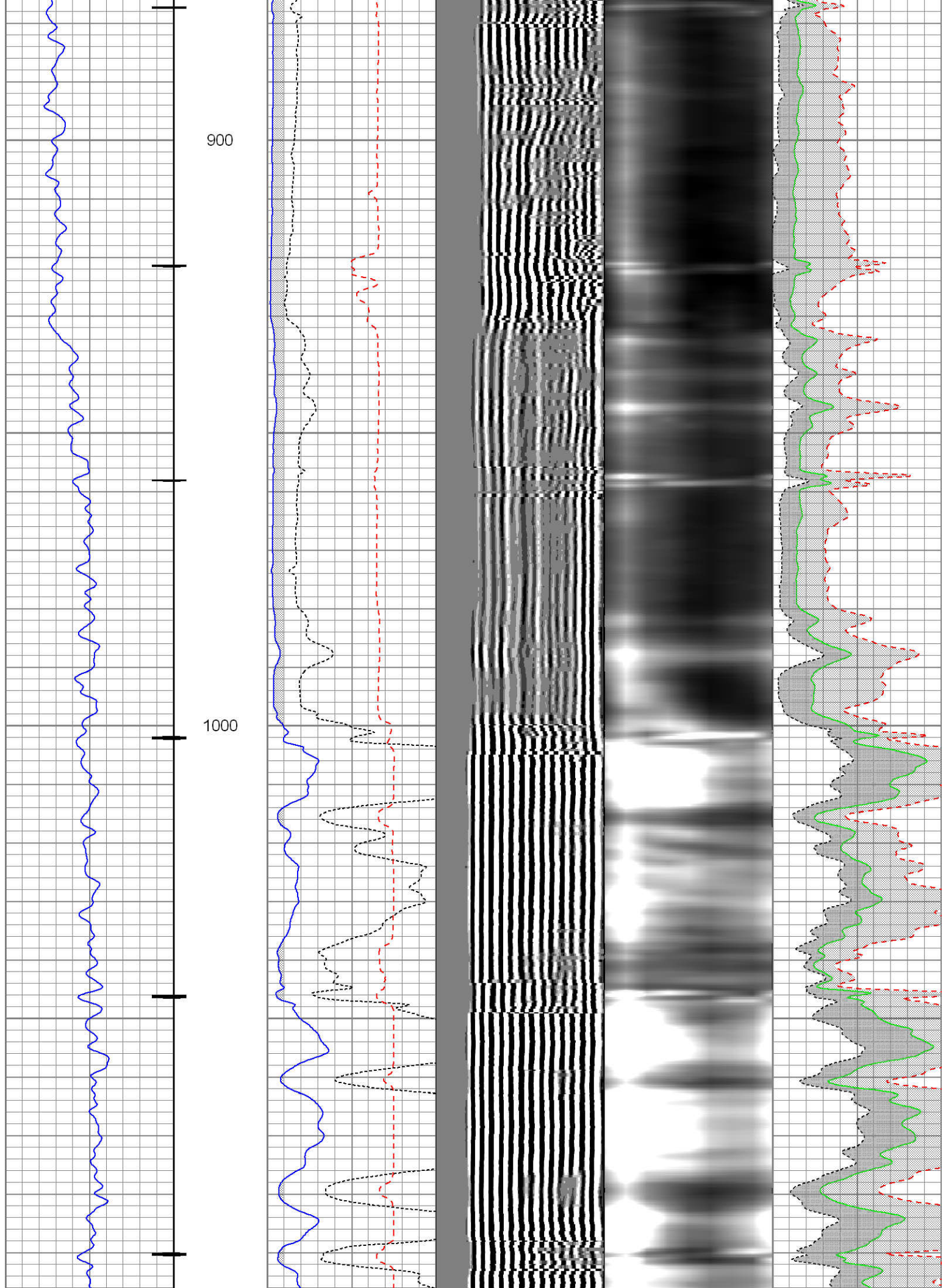
0	Gamma Ray 150		3' Amplitude	5' Variable Density Log 1	Sector Map	8	Average Amplitude
	Collar Locator		0 (mV) 100	200 1200			0 100
			3' Amplitude x 5				Minimum Amplitude
			0 (mV) 20				0 100
			3' Travel Time				Maximum Amplitude
			650 (usec) 150				0 100

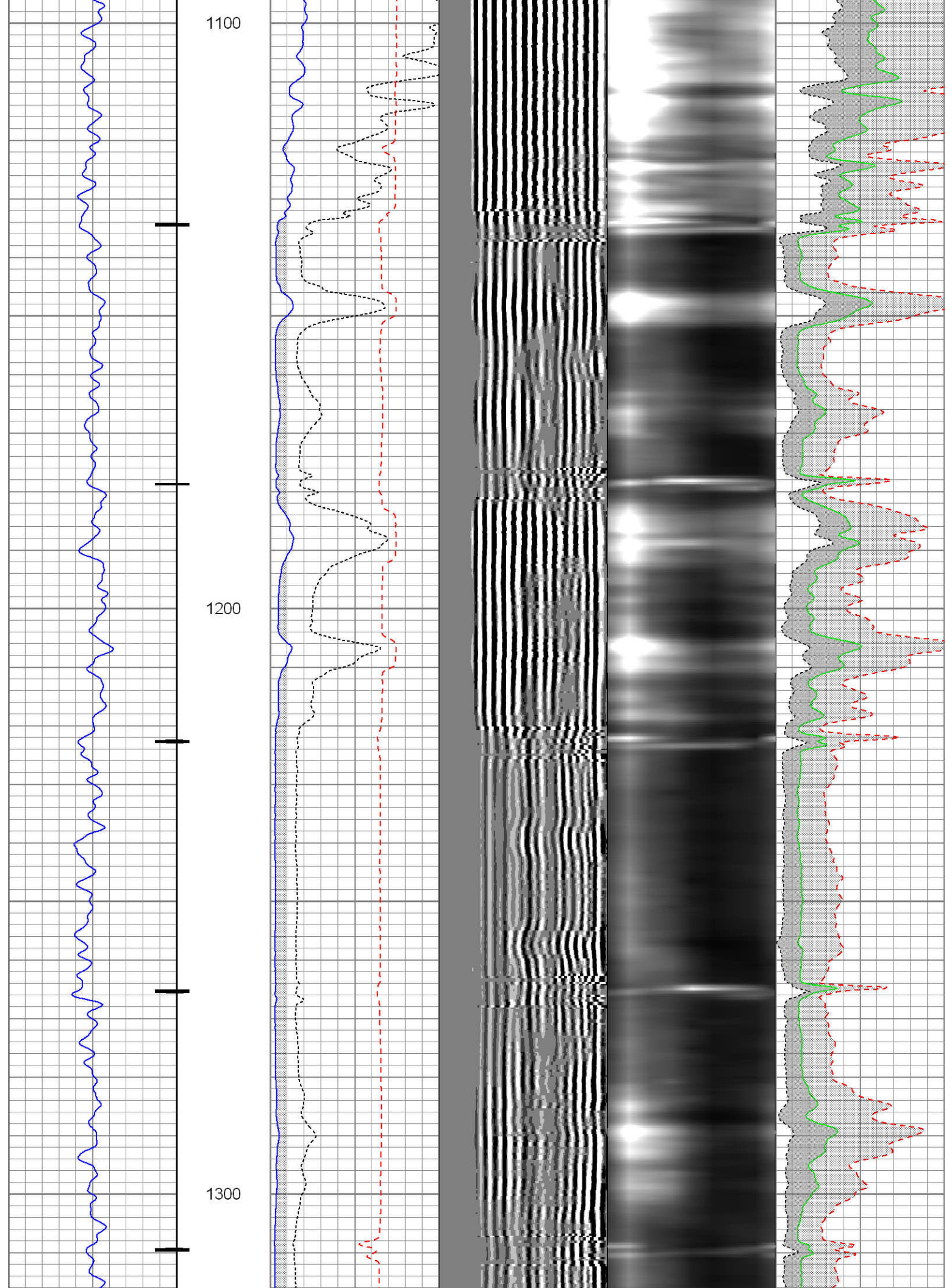


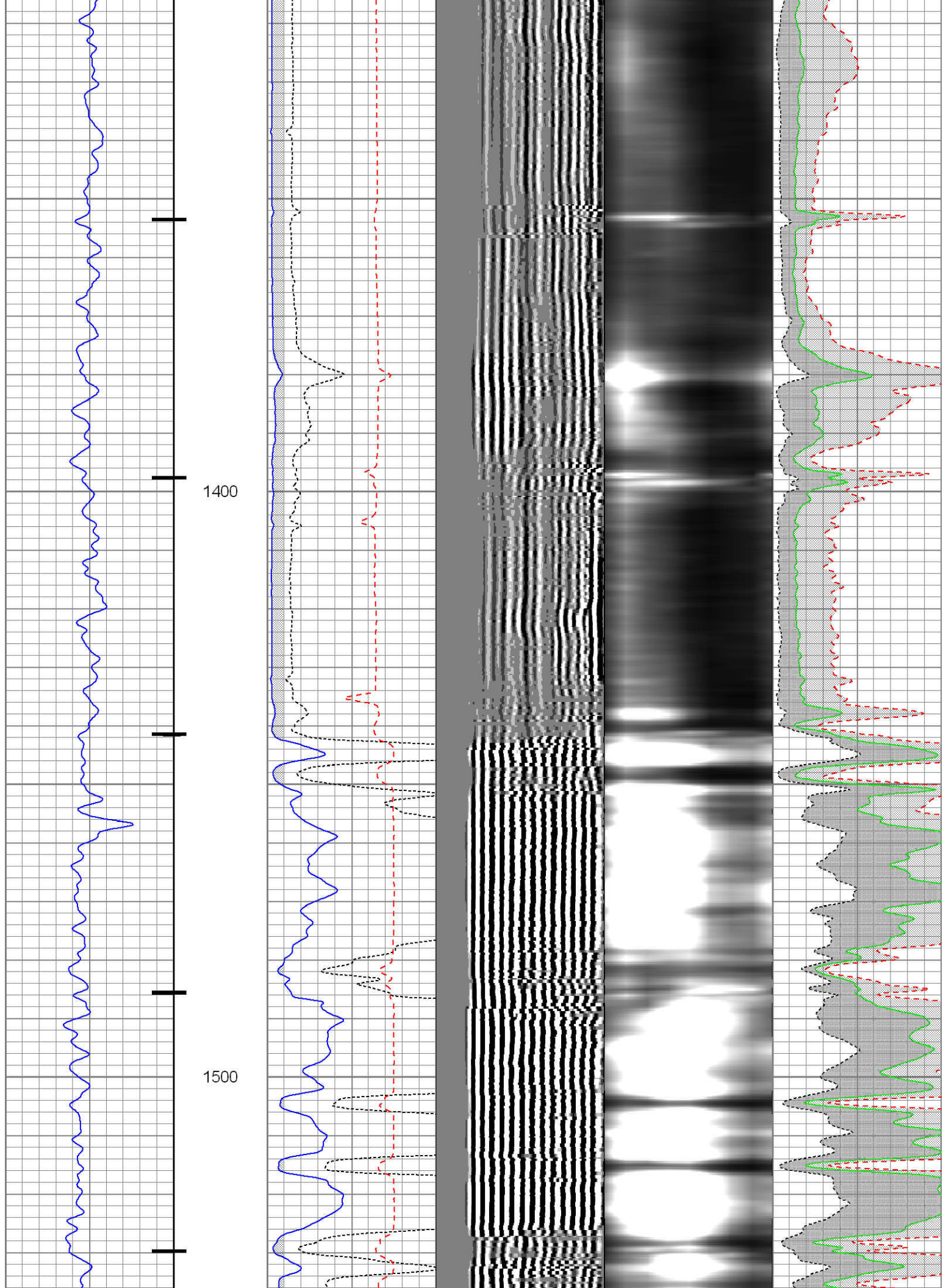


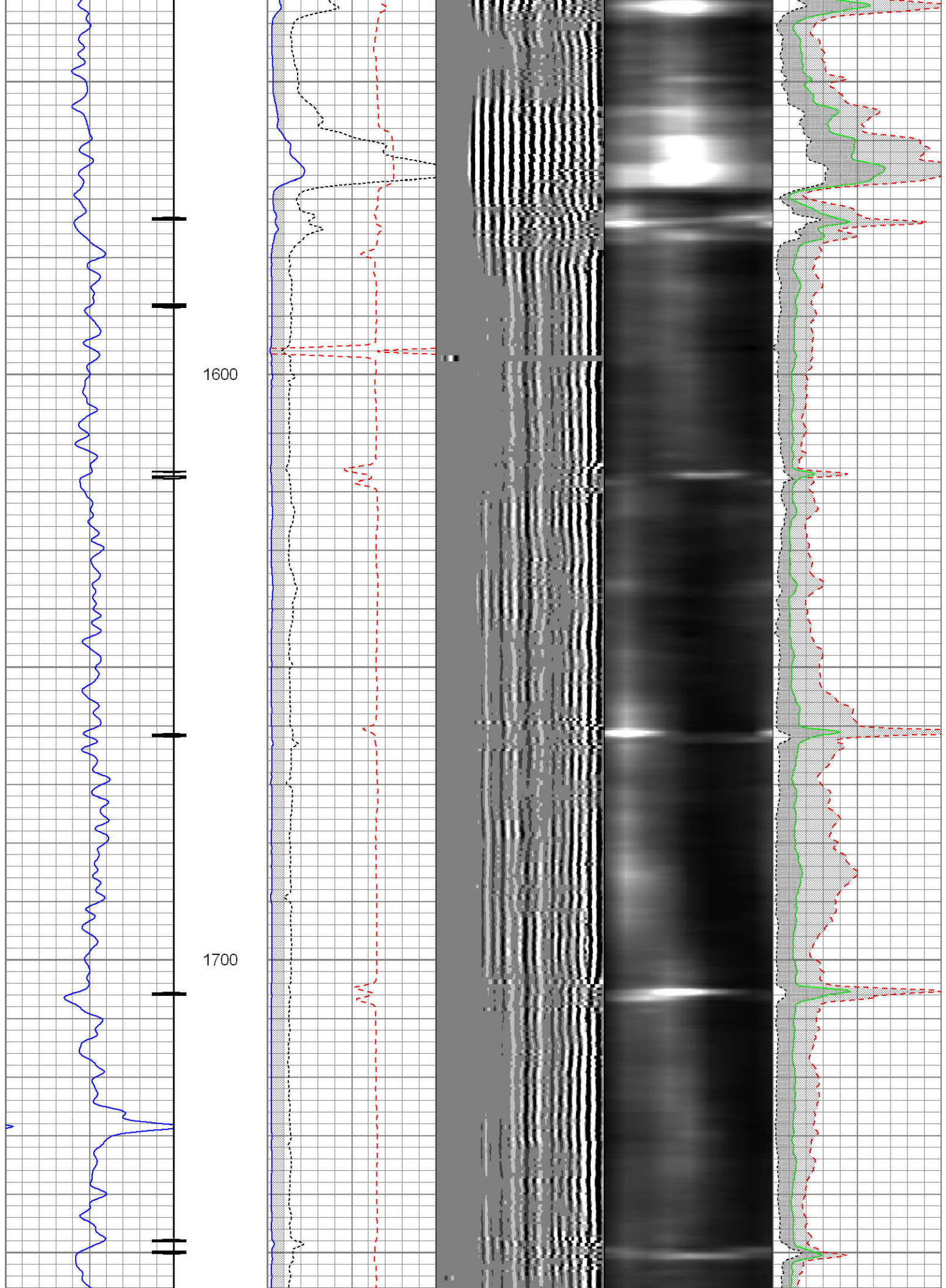


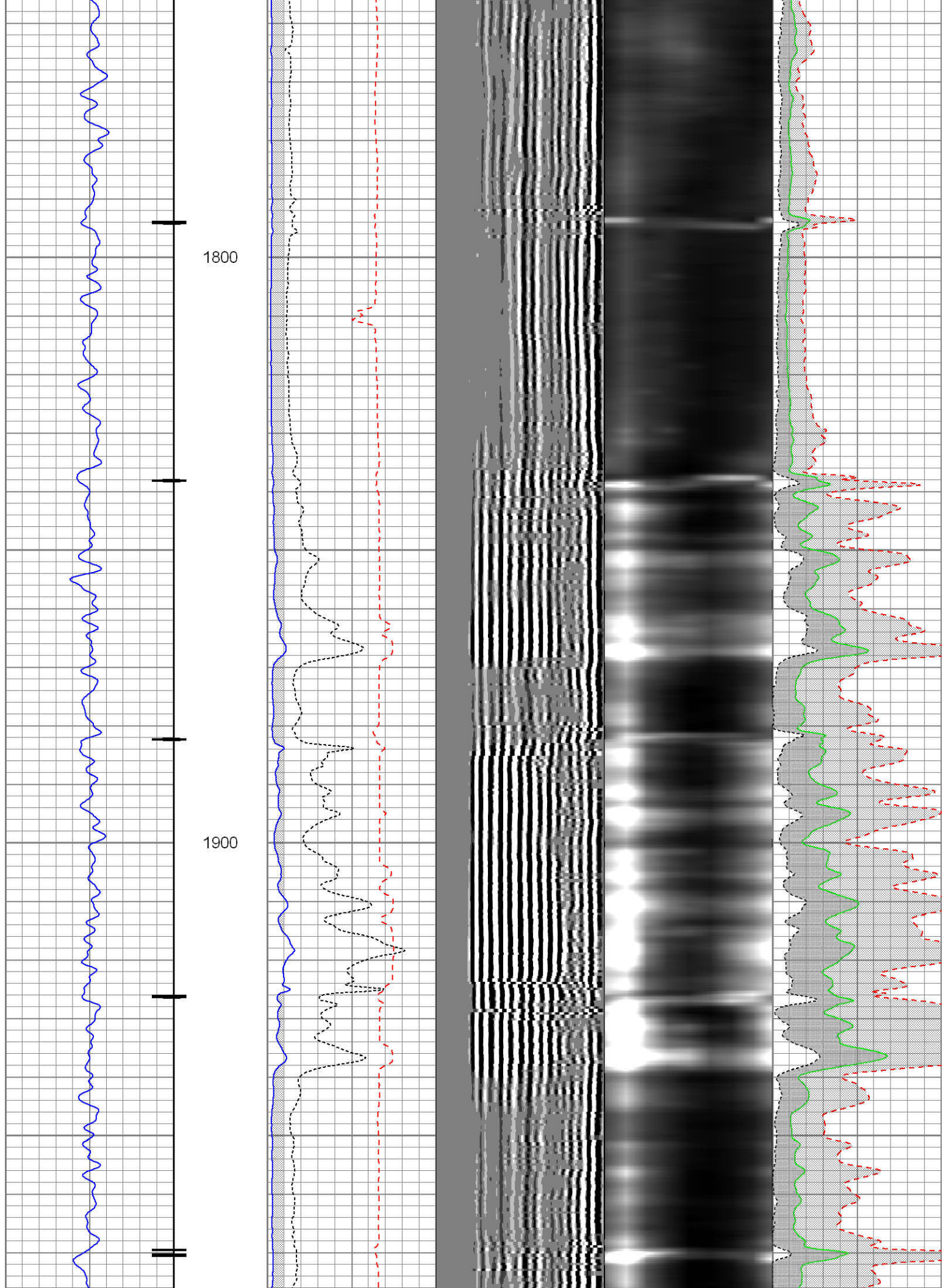


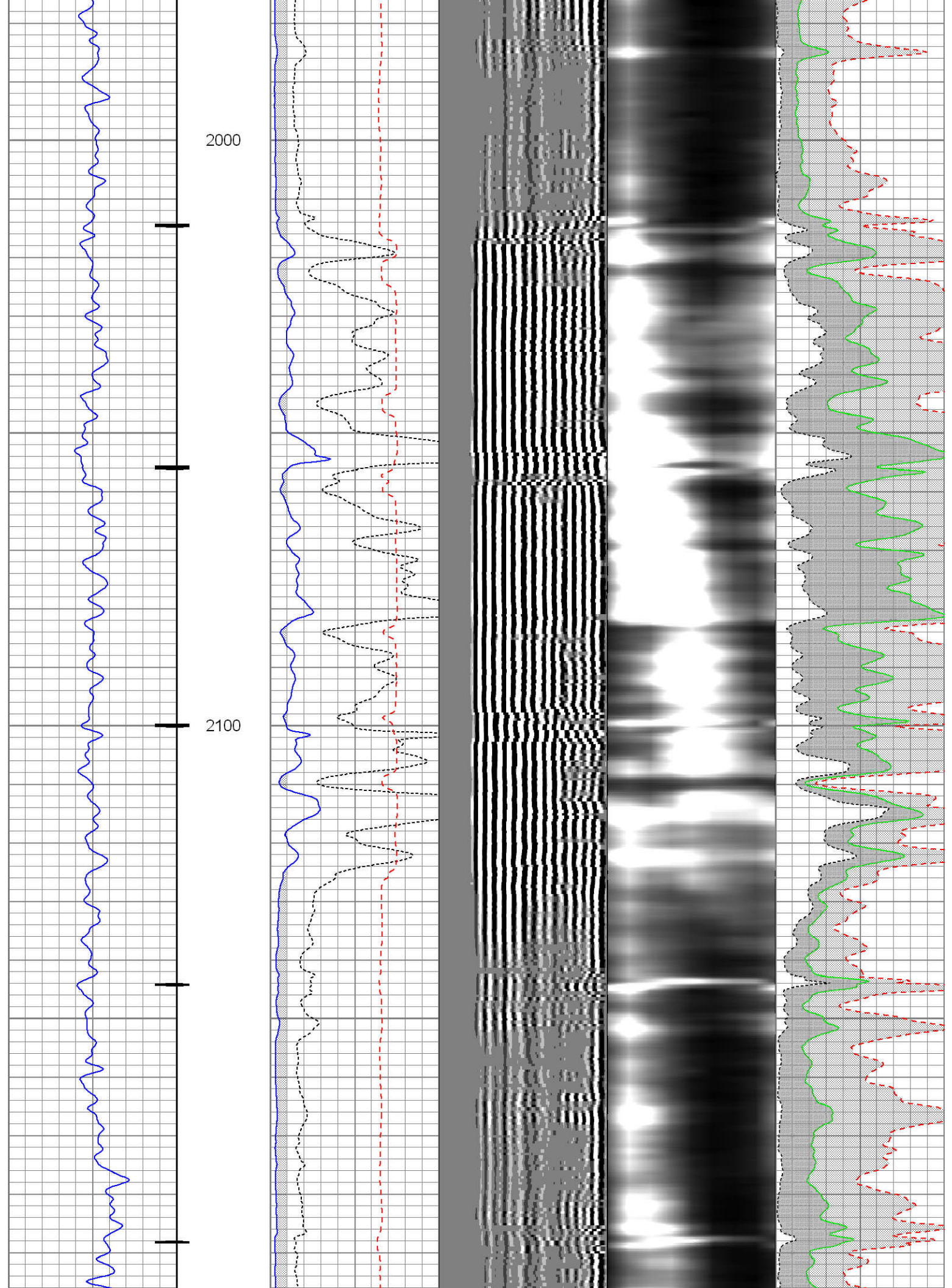


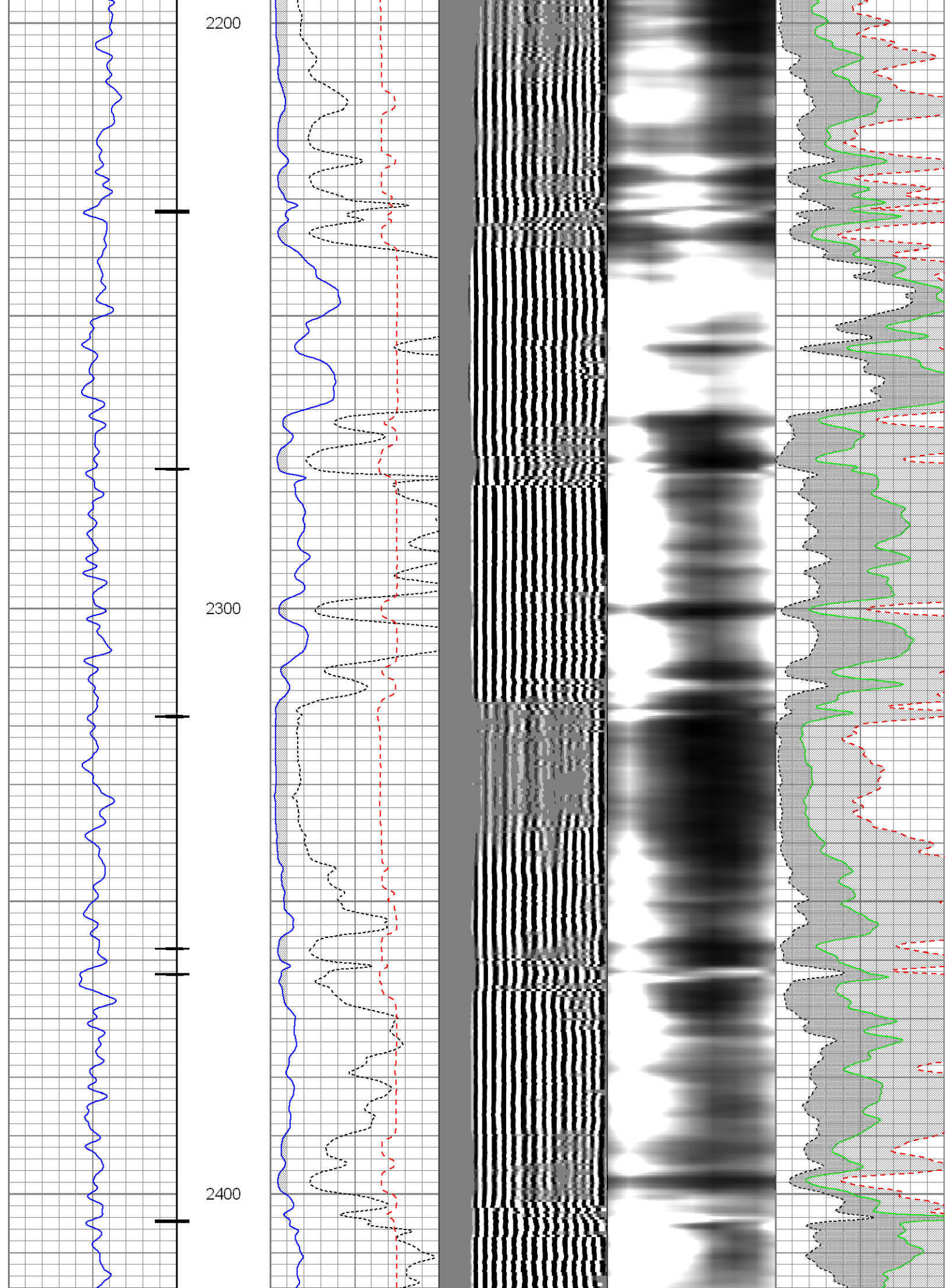


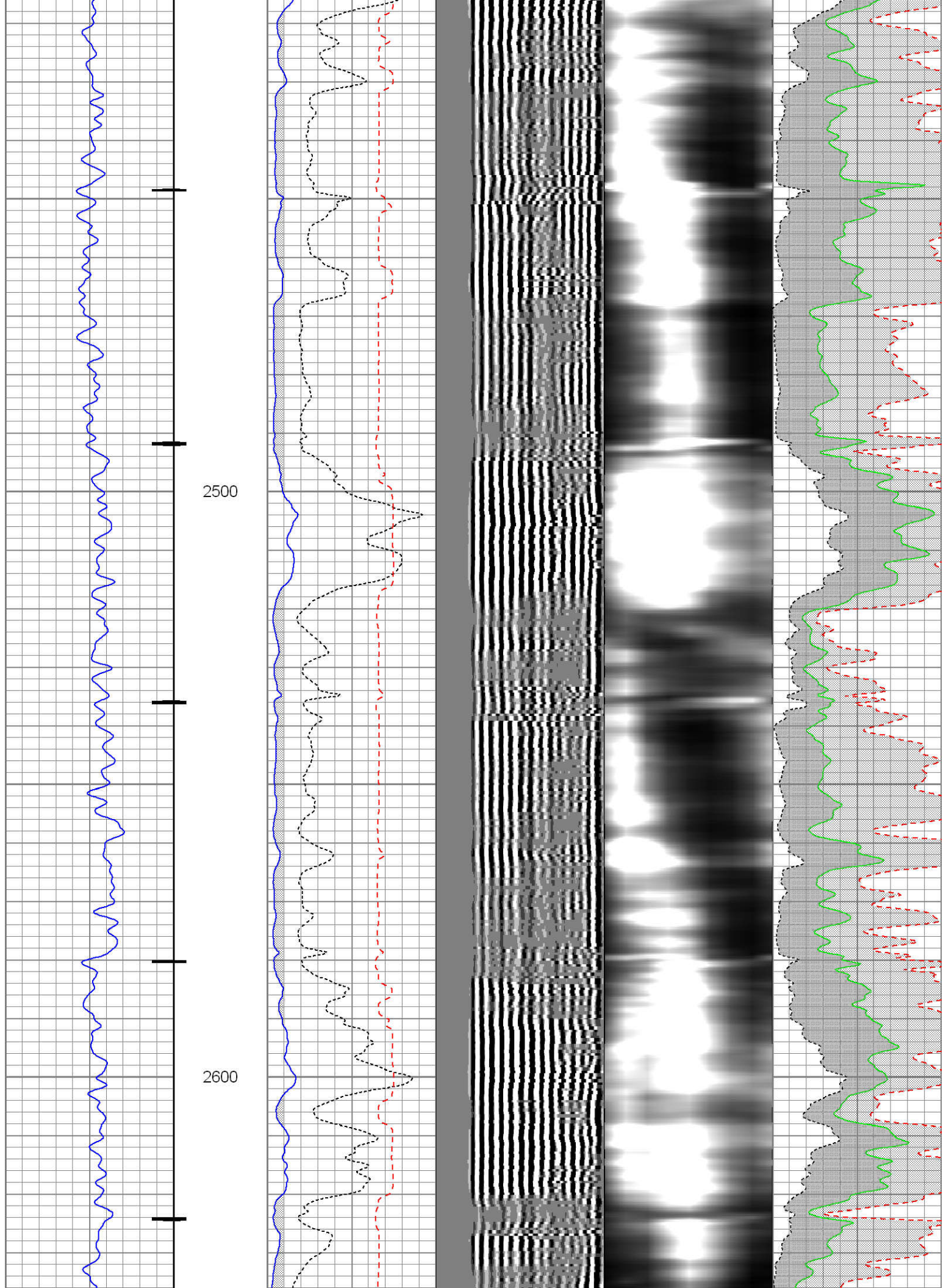


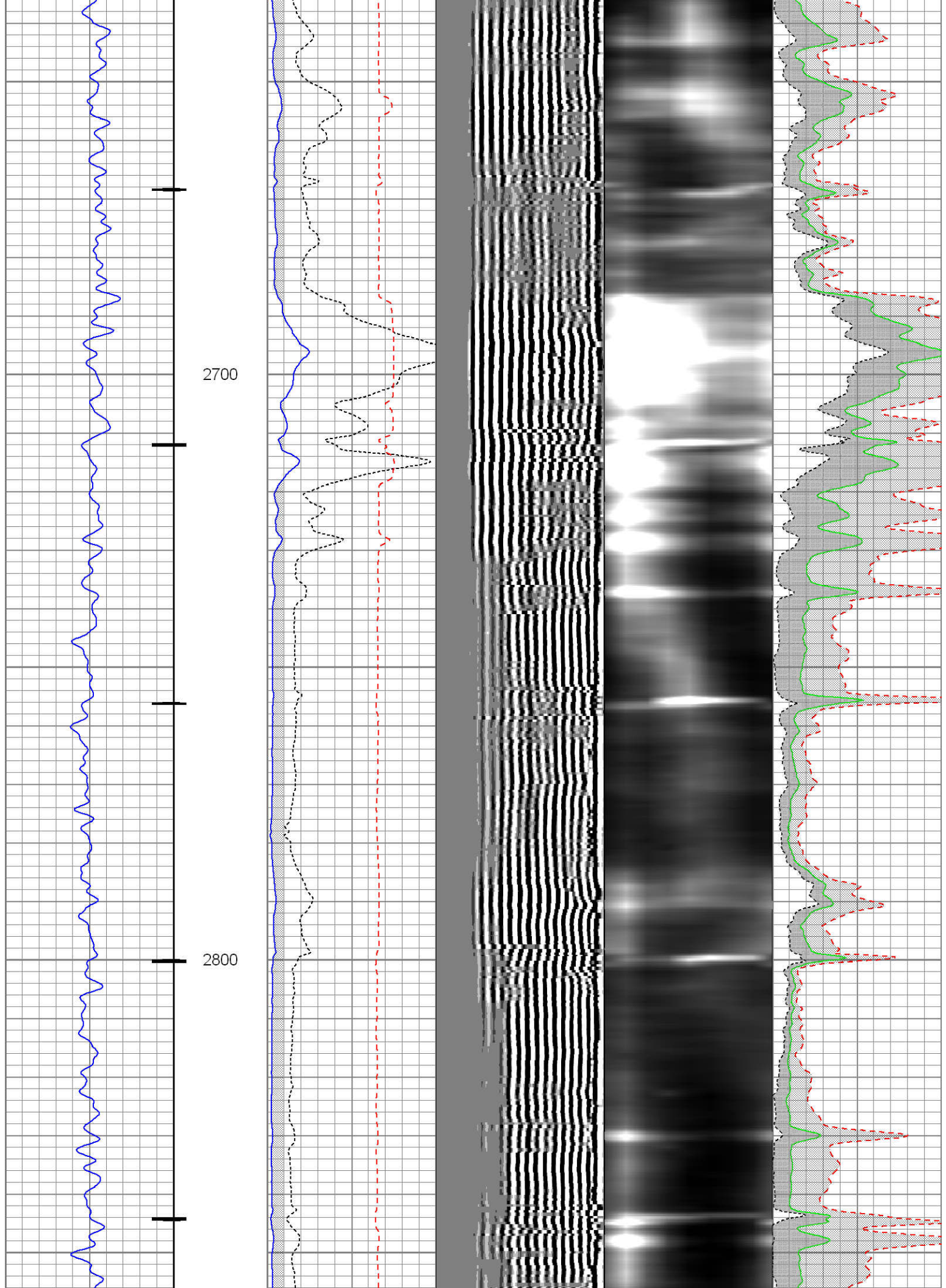


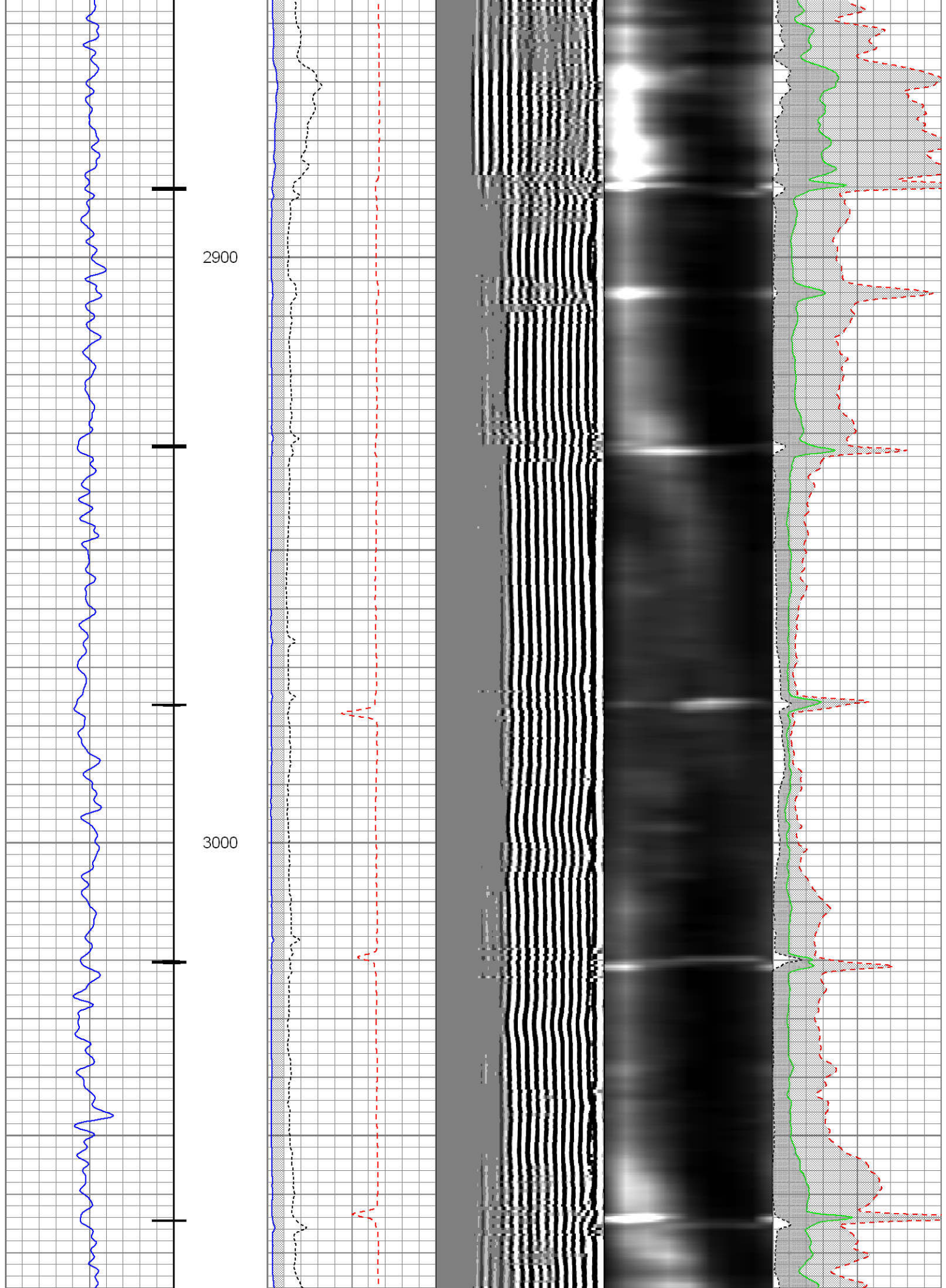


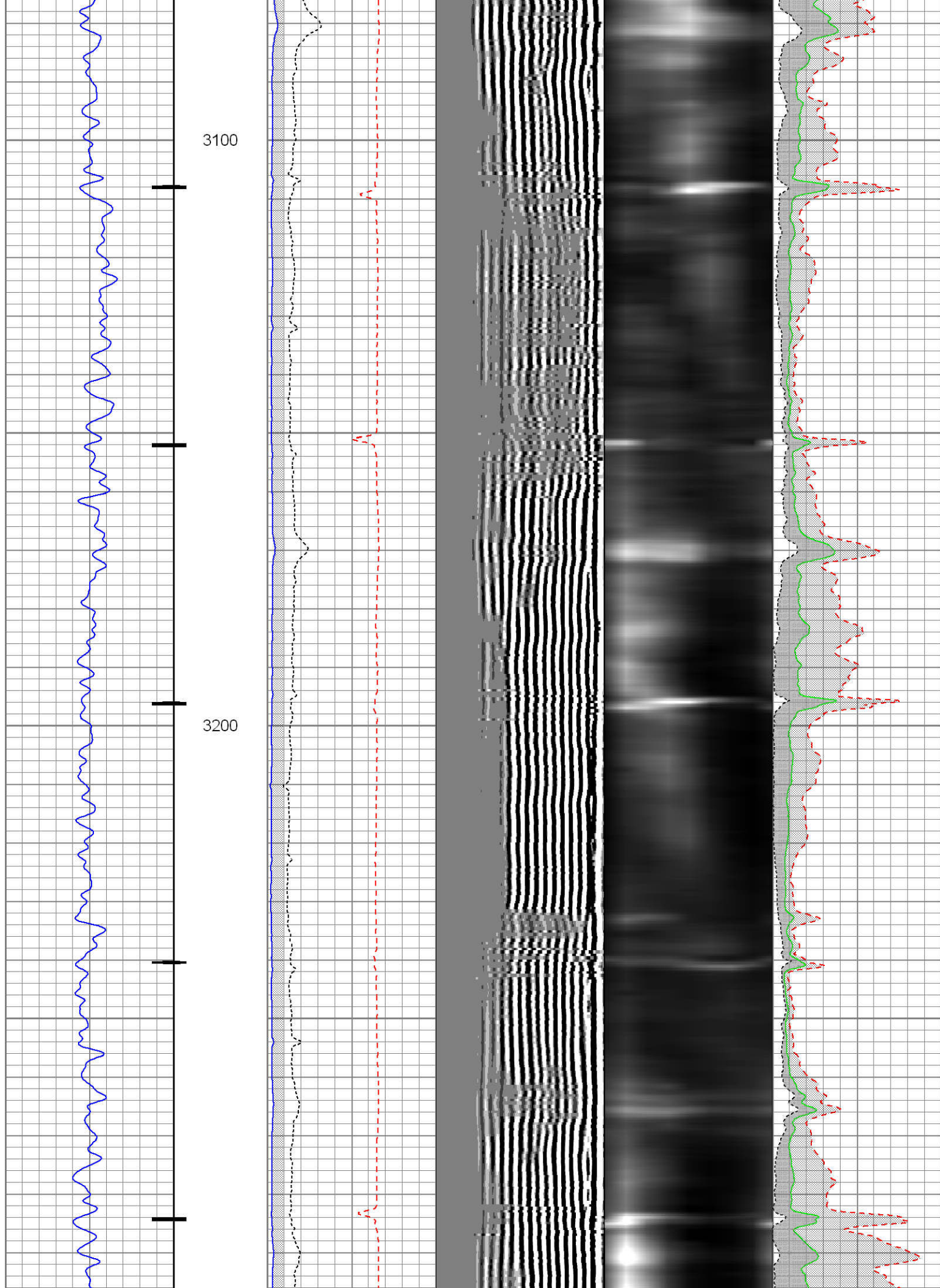


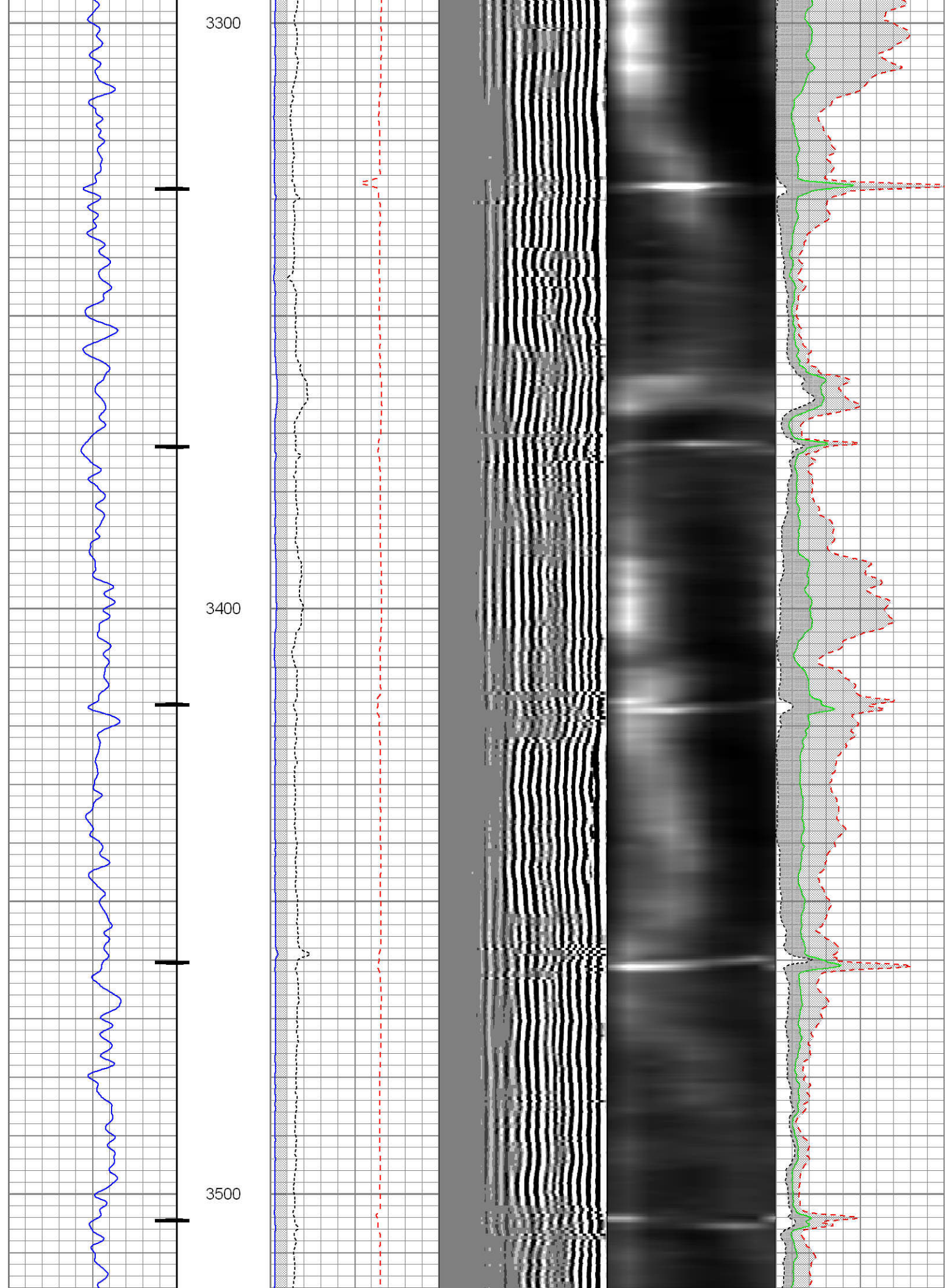


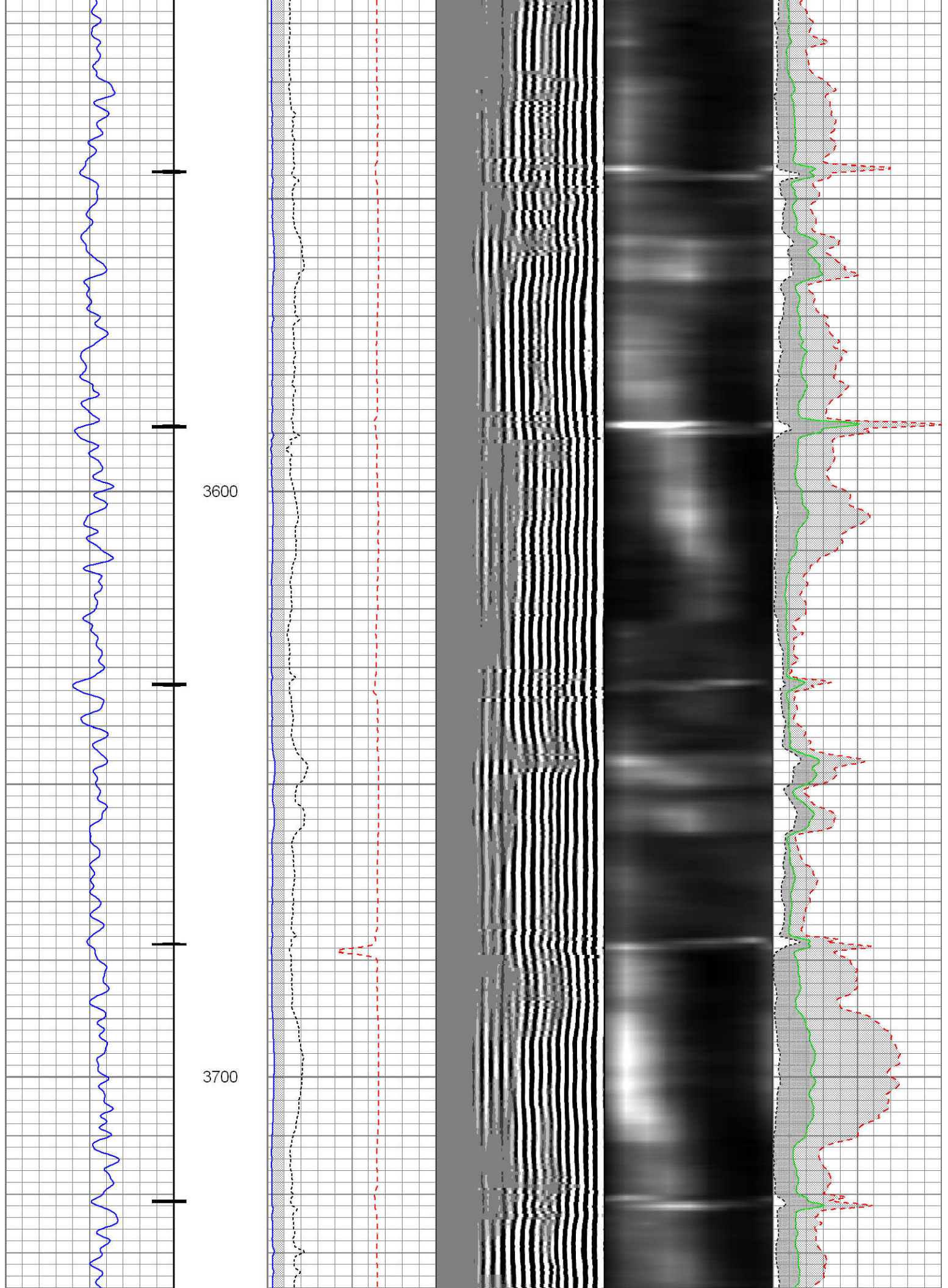


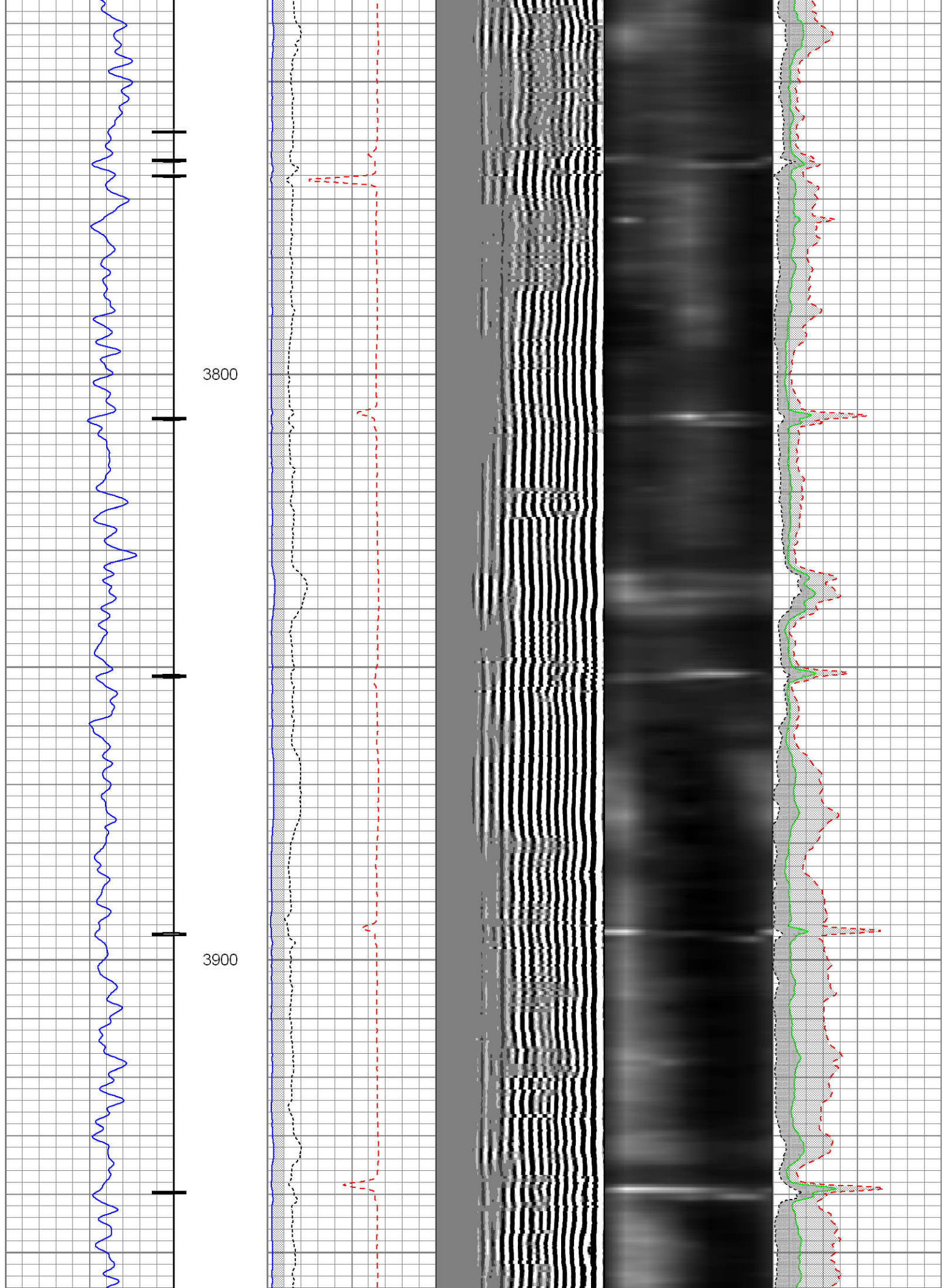


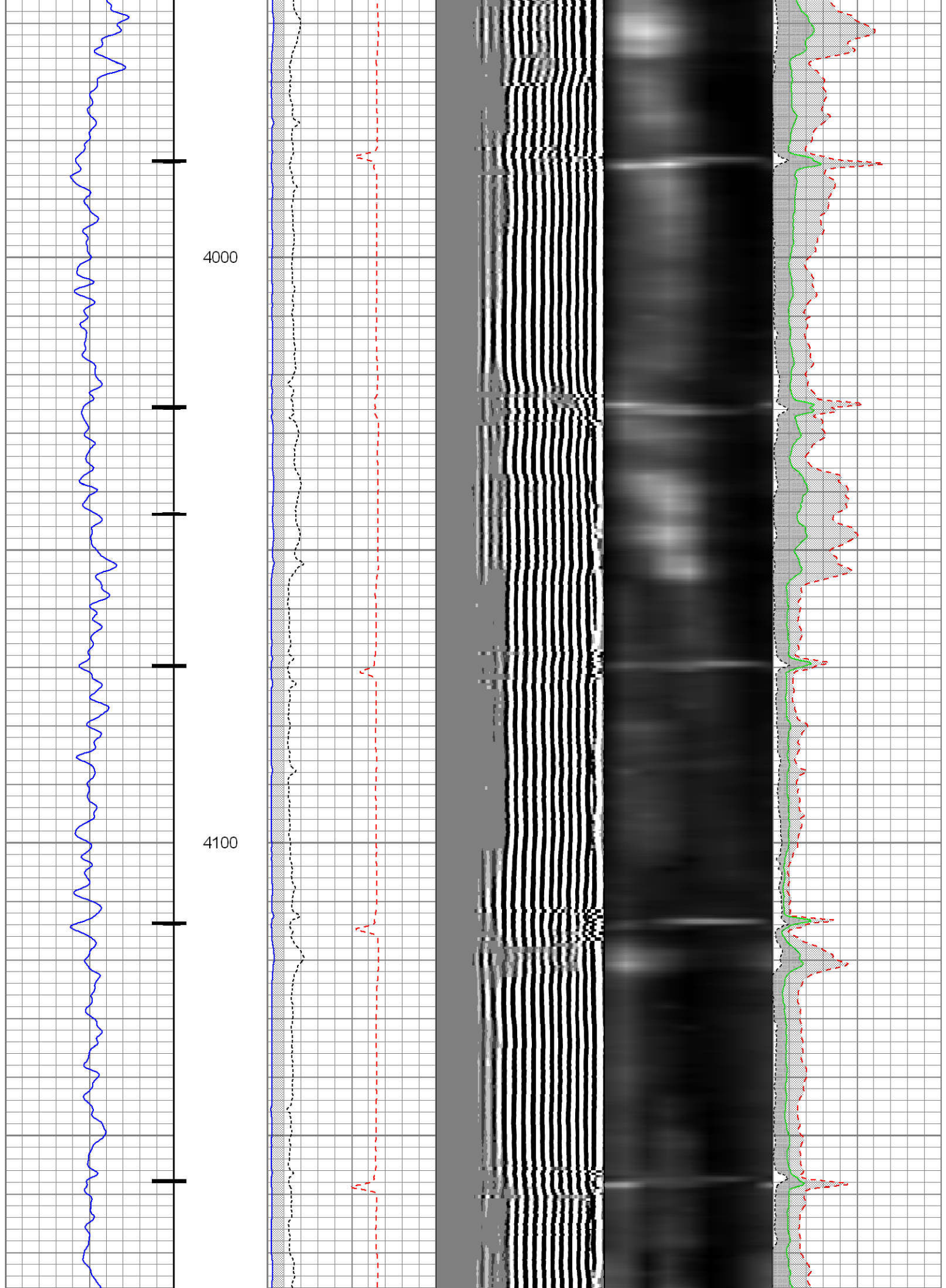


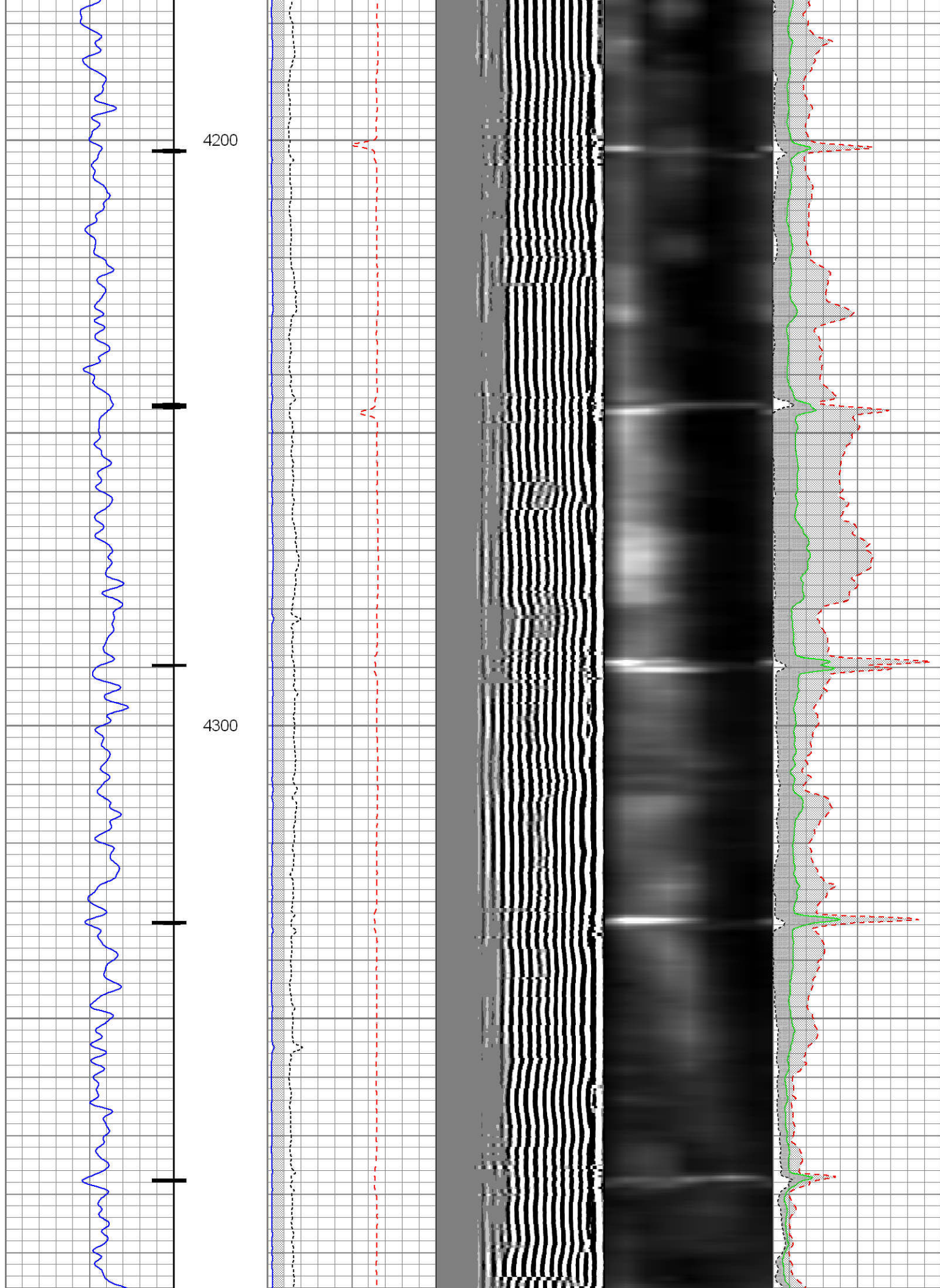


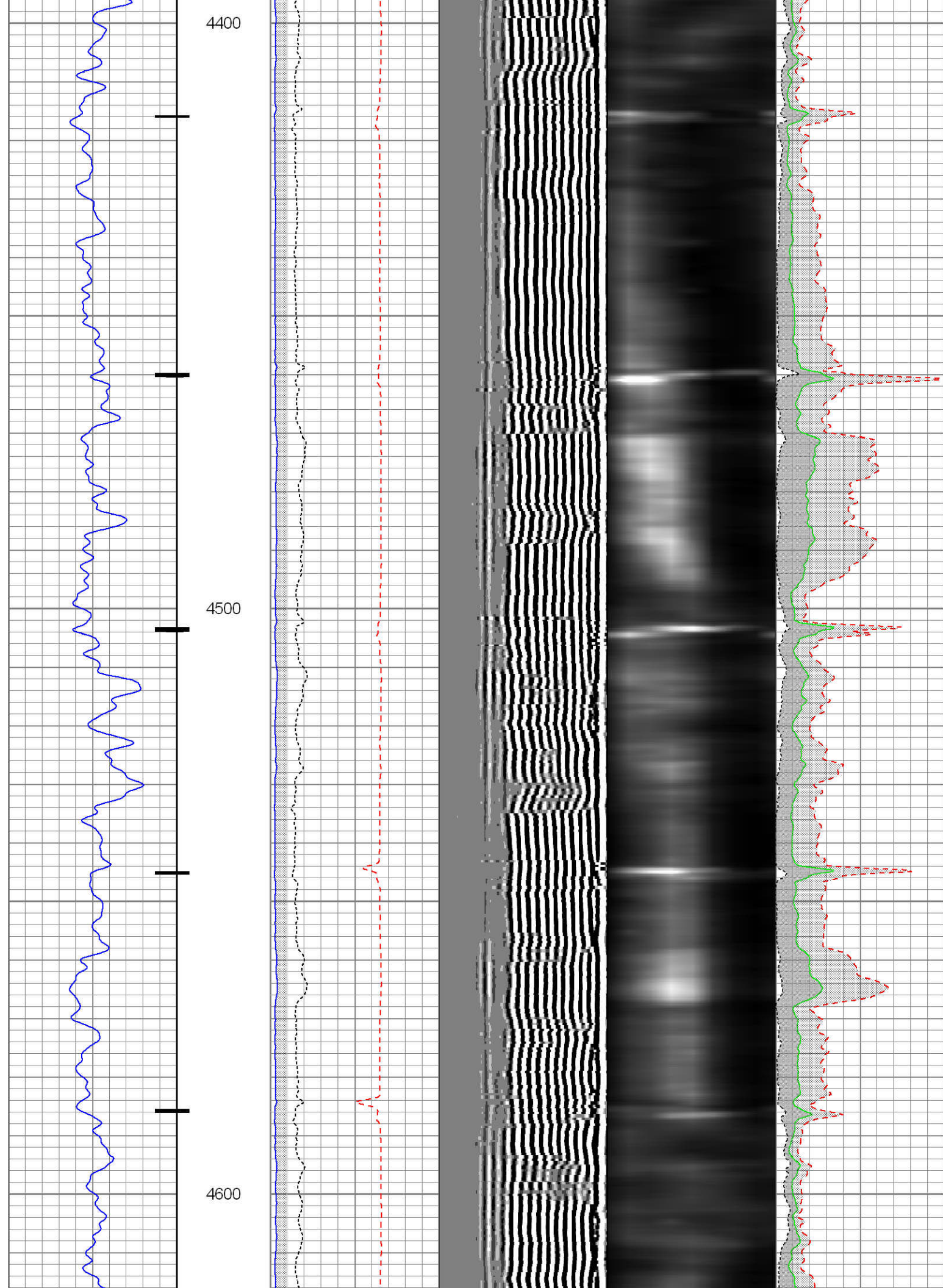


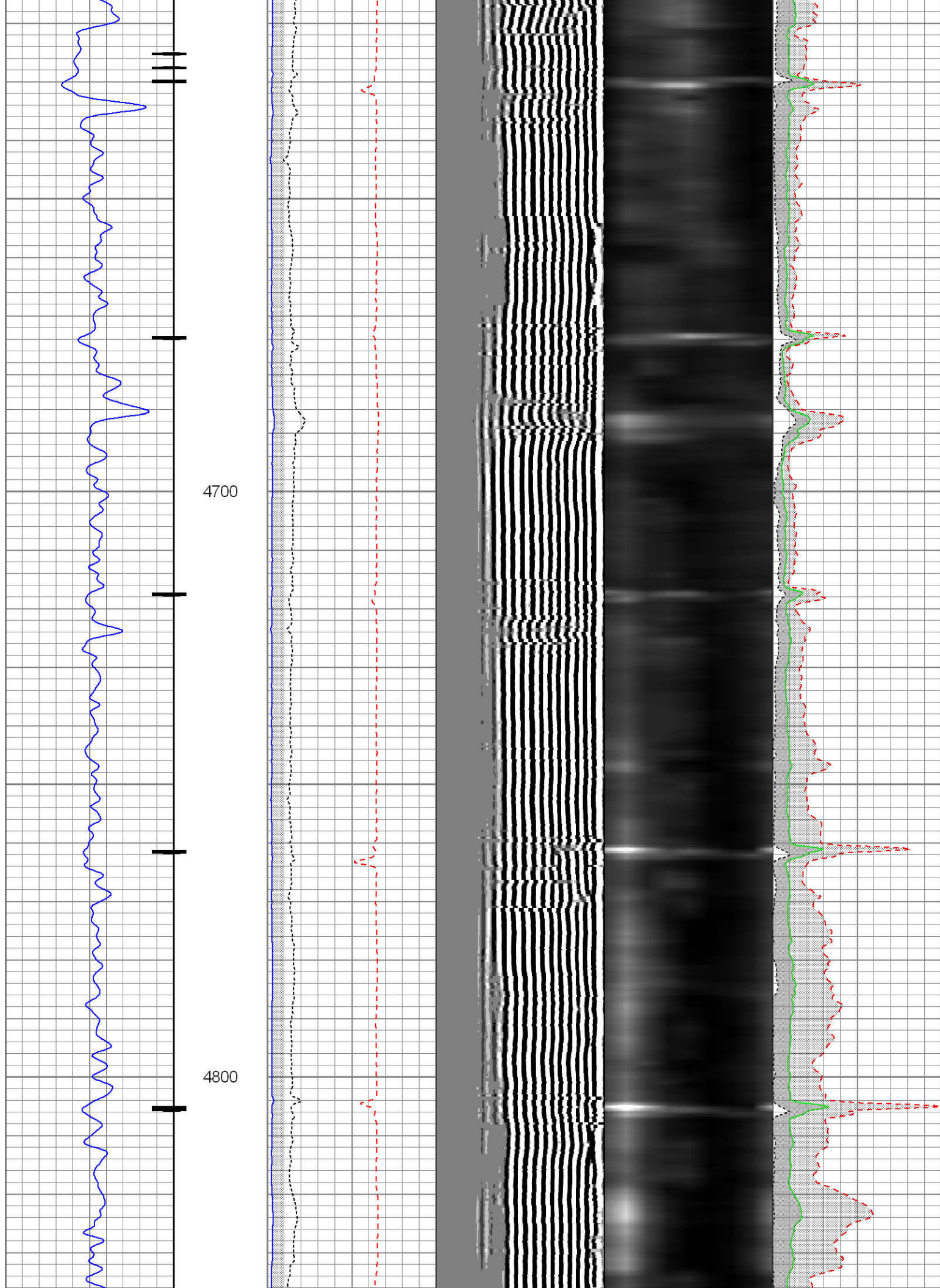


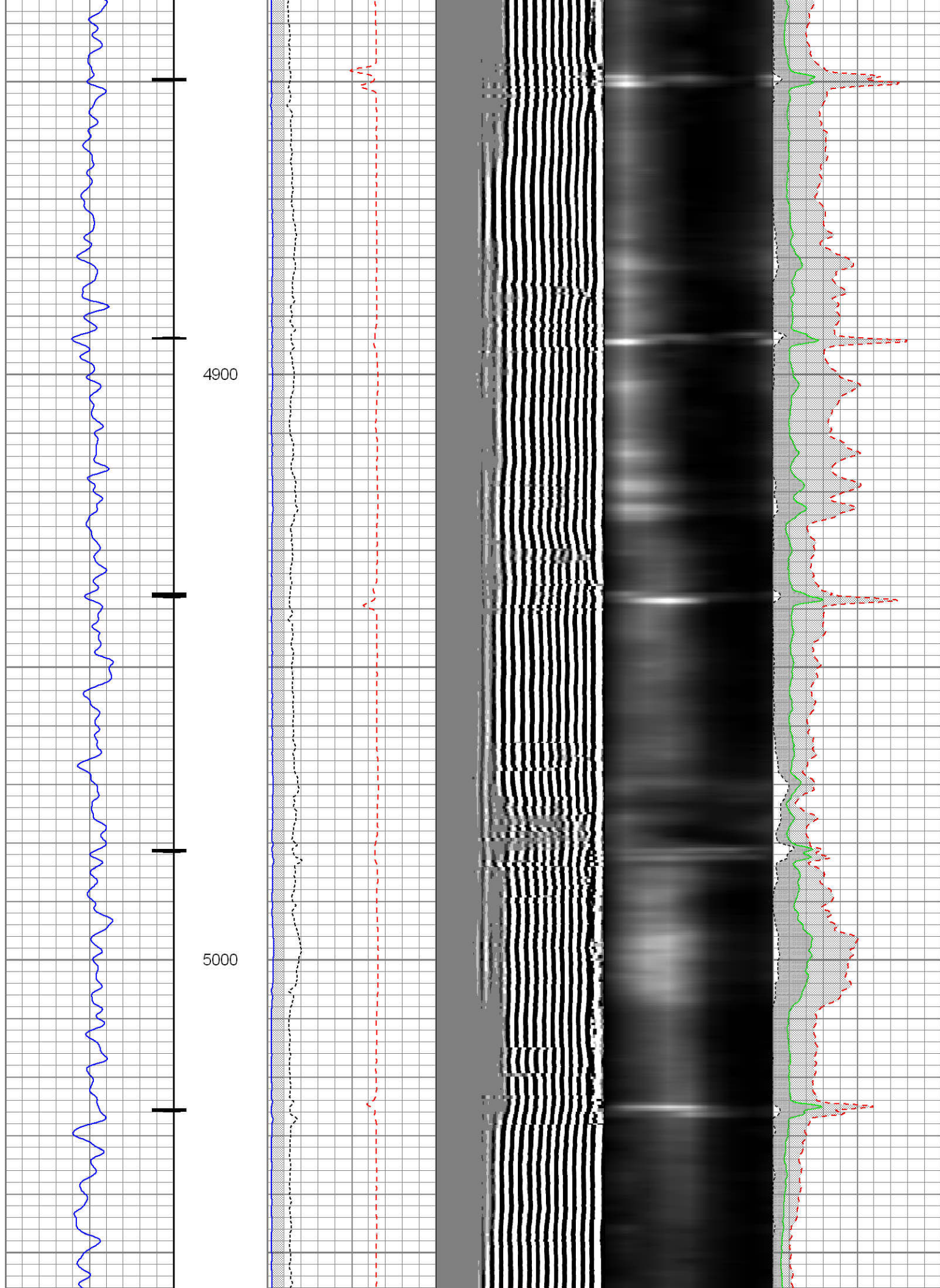


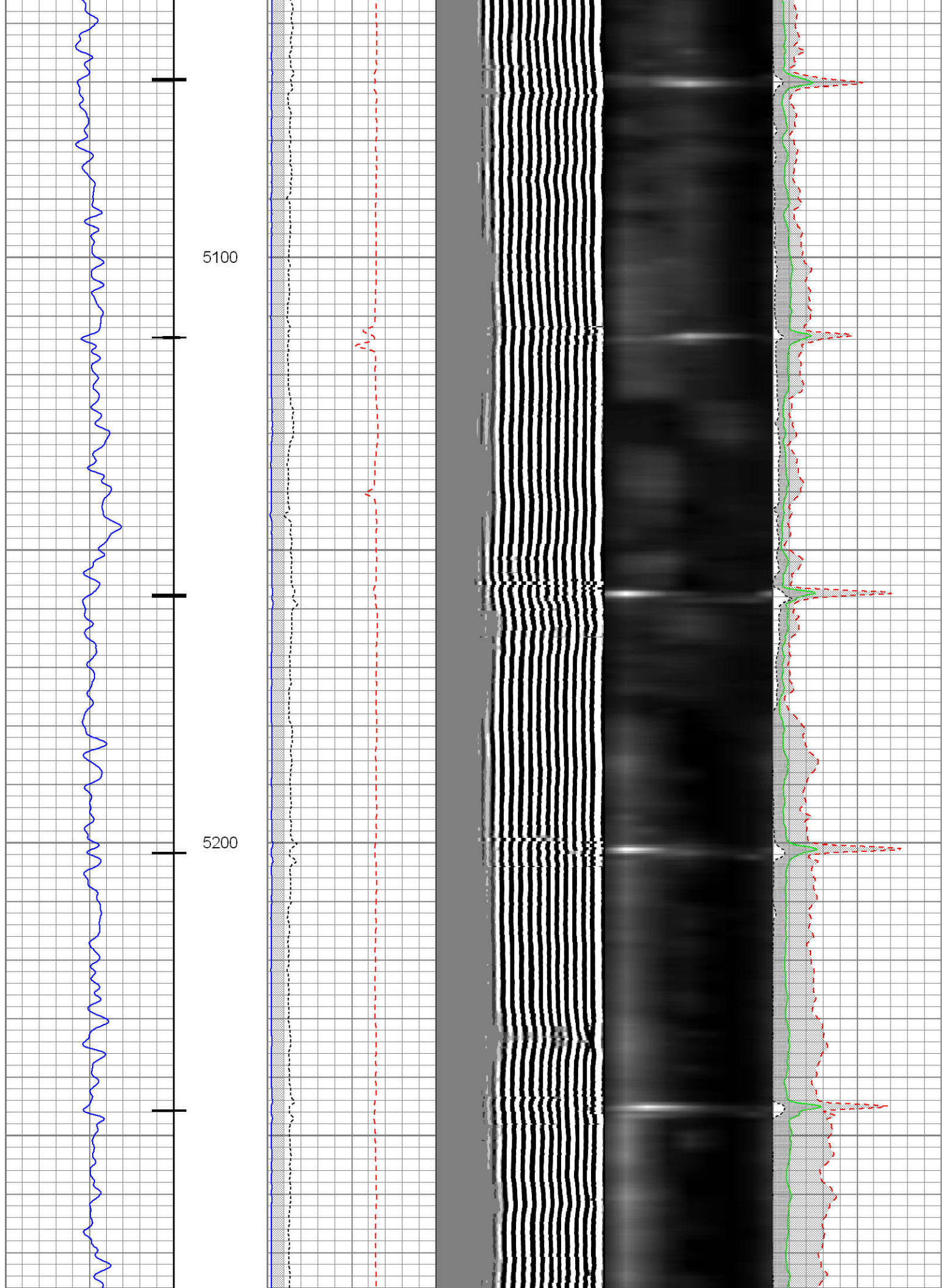


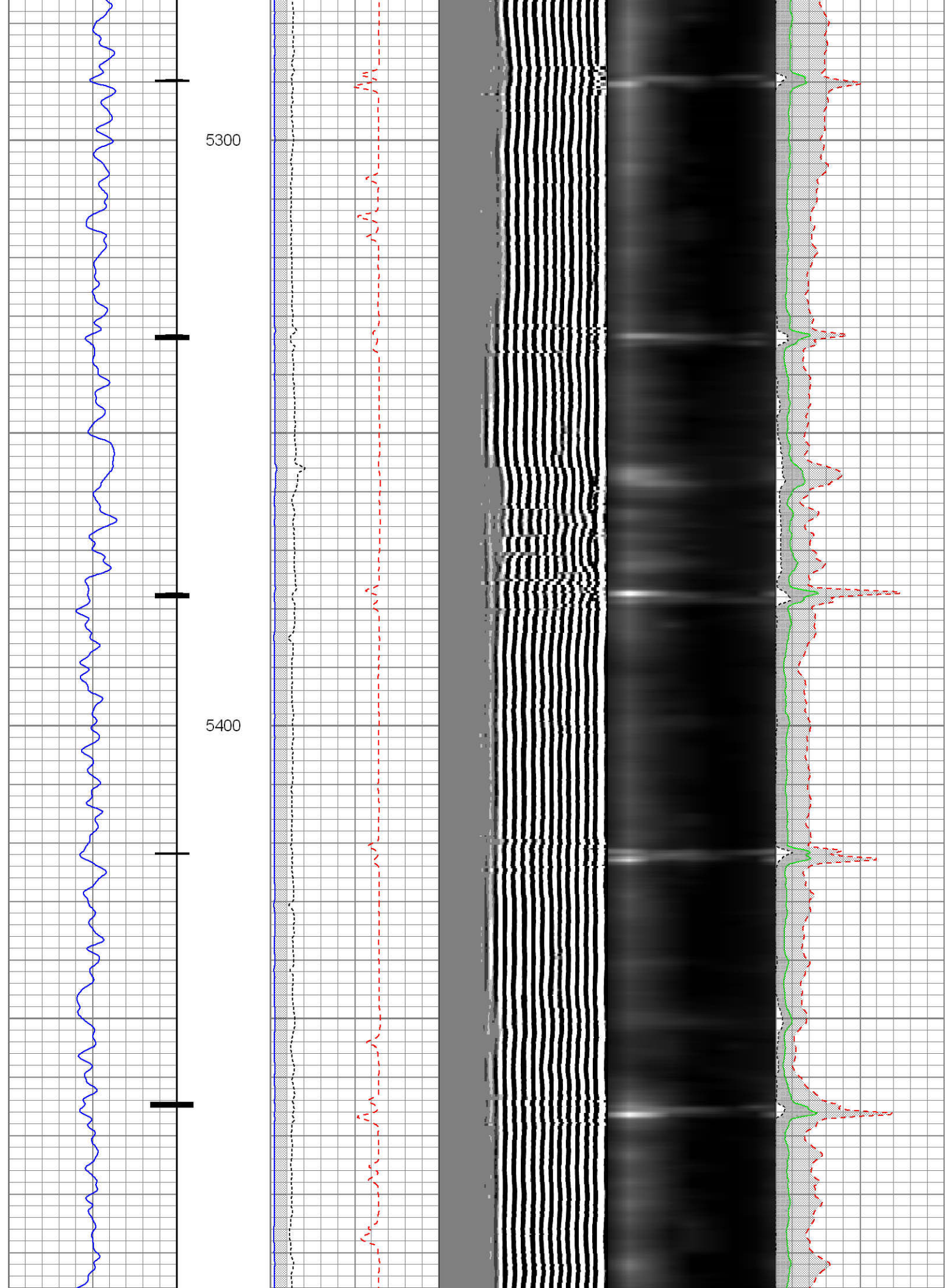


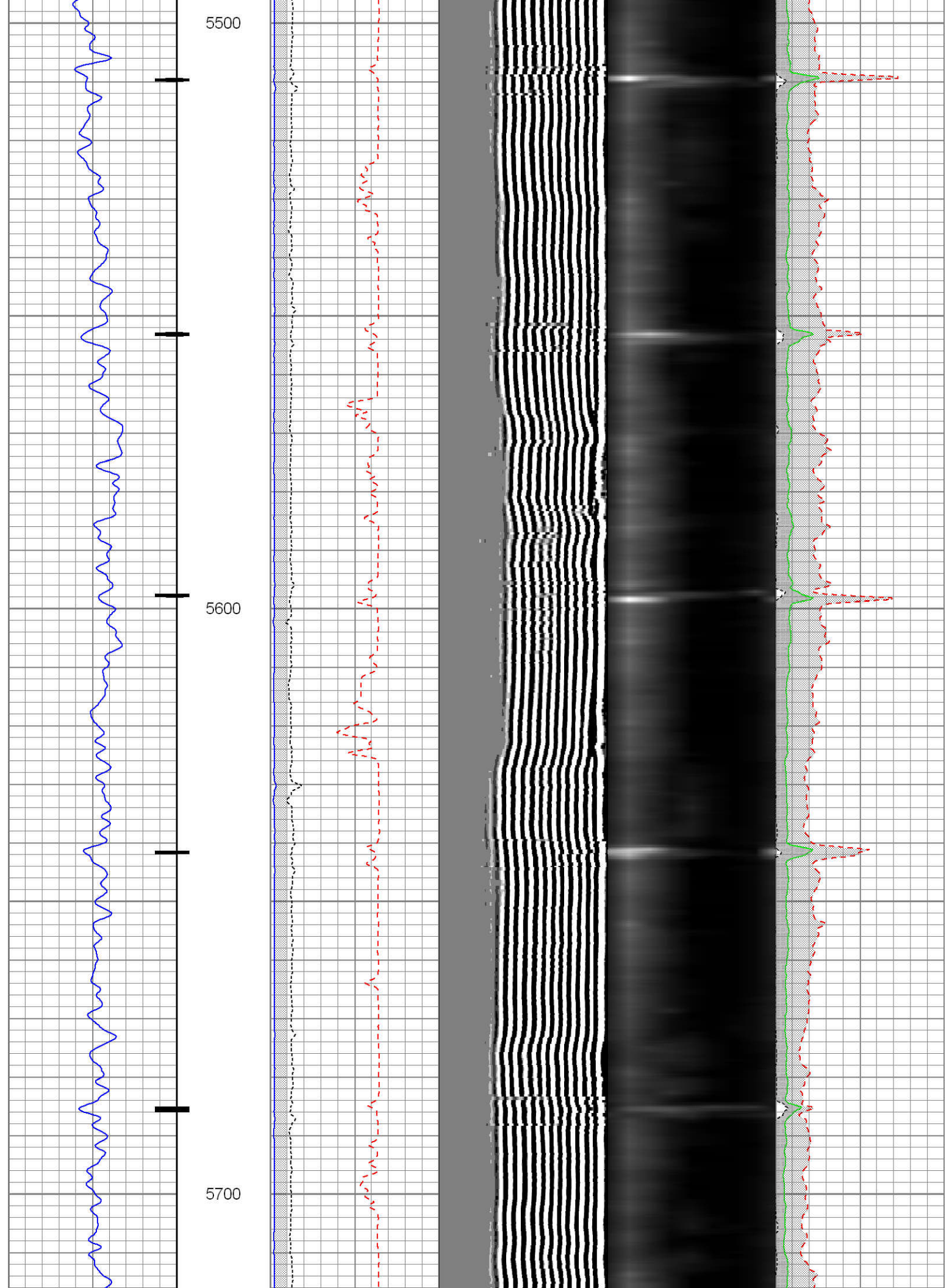


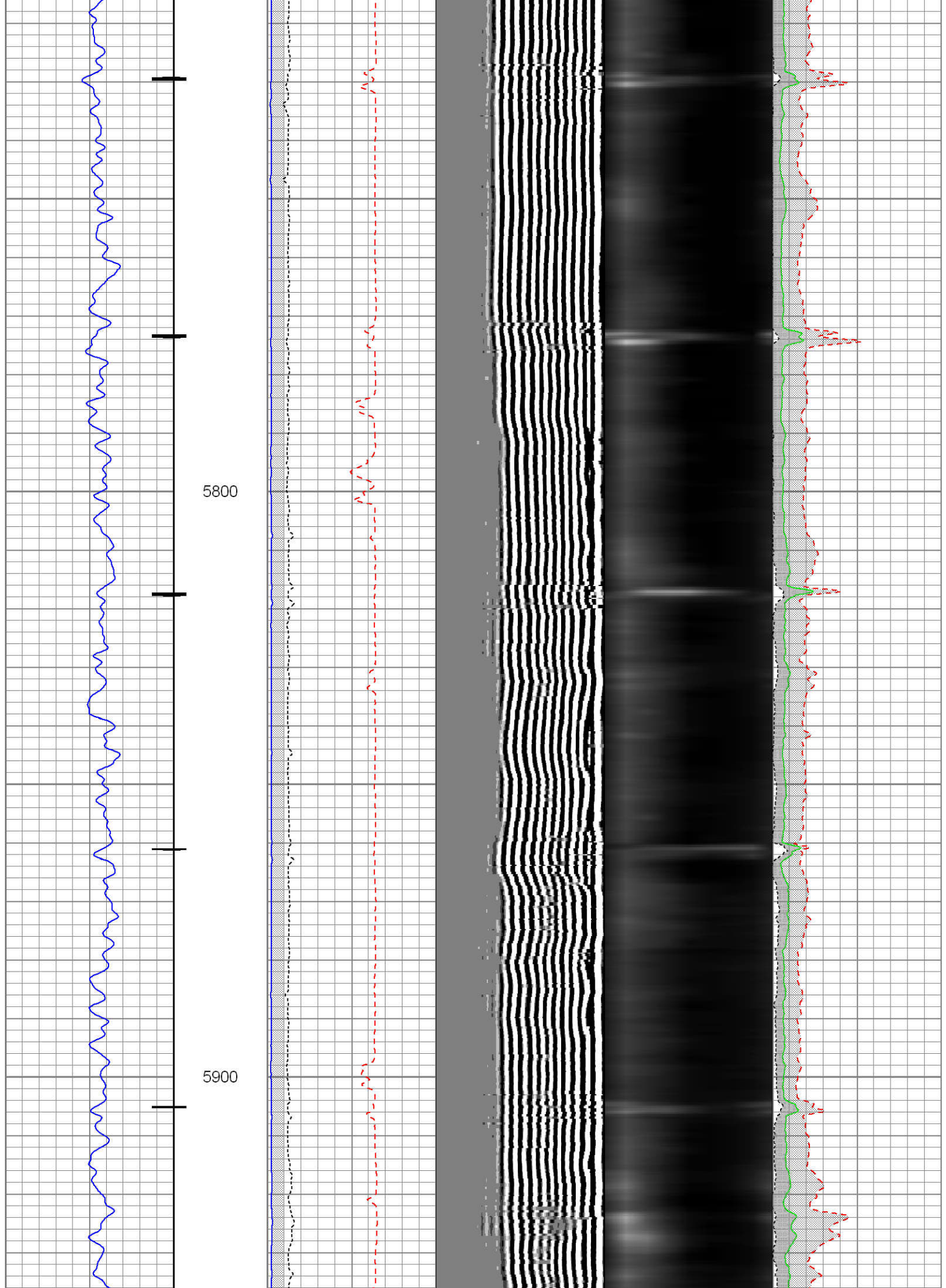


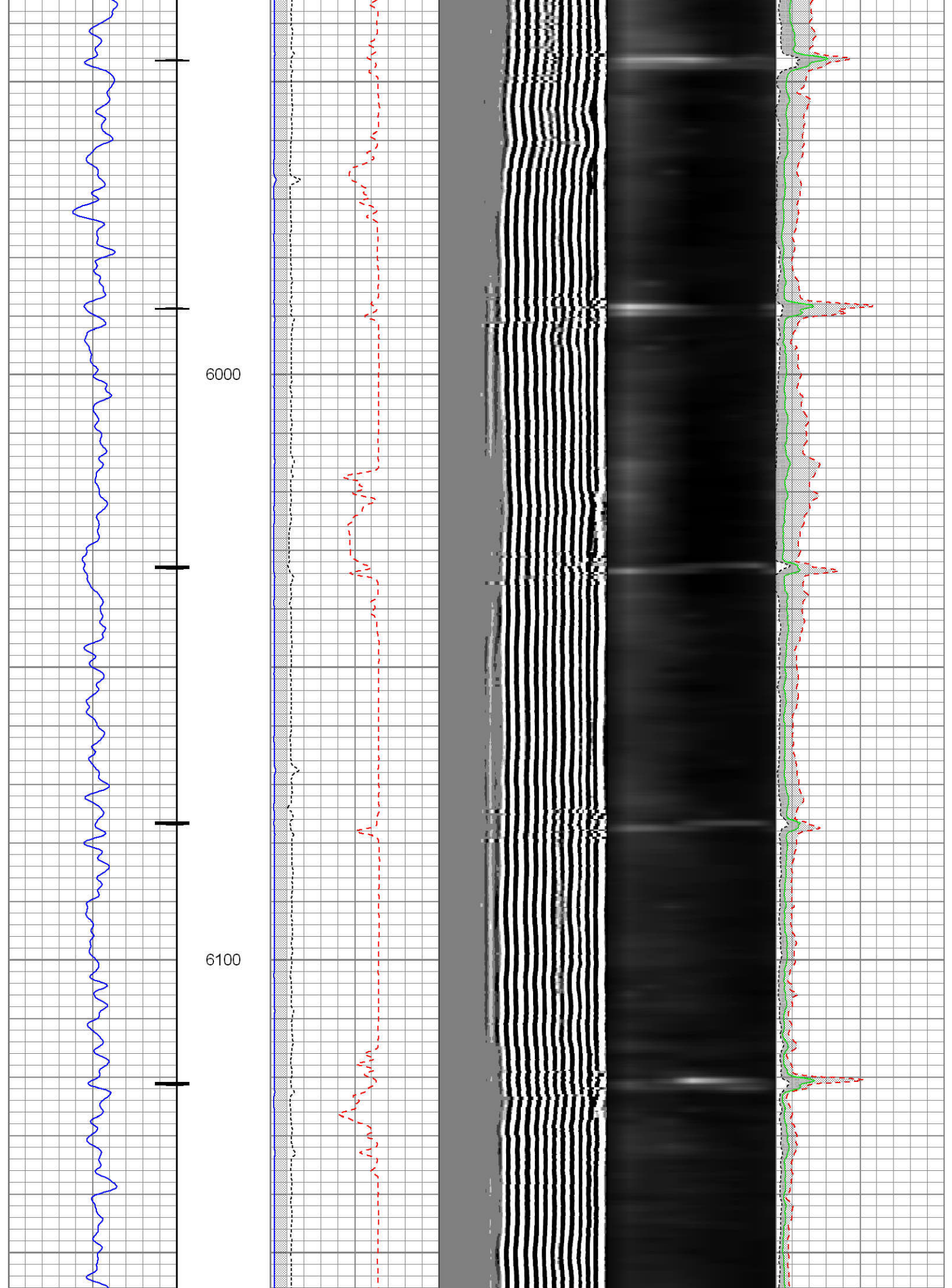


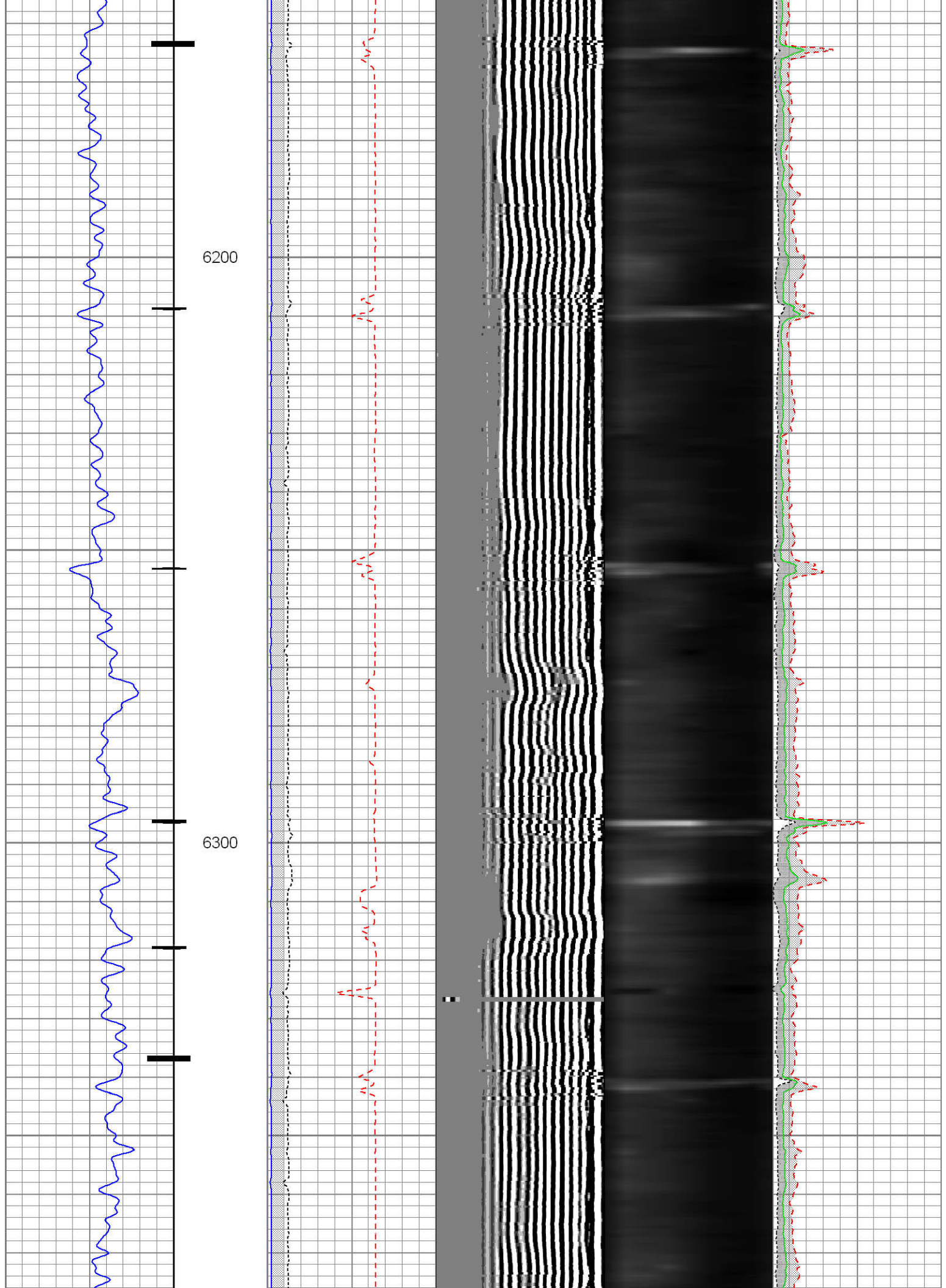


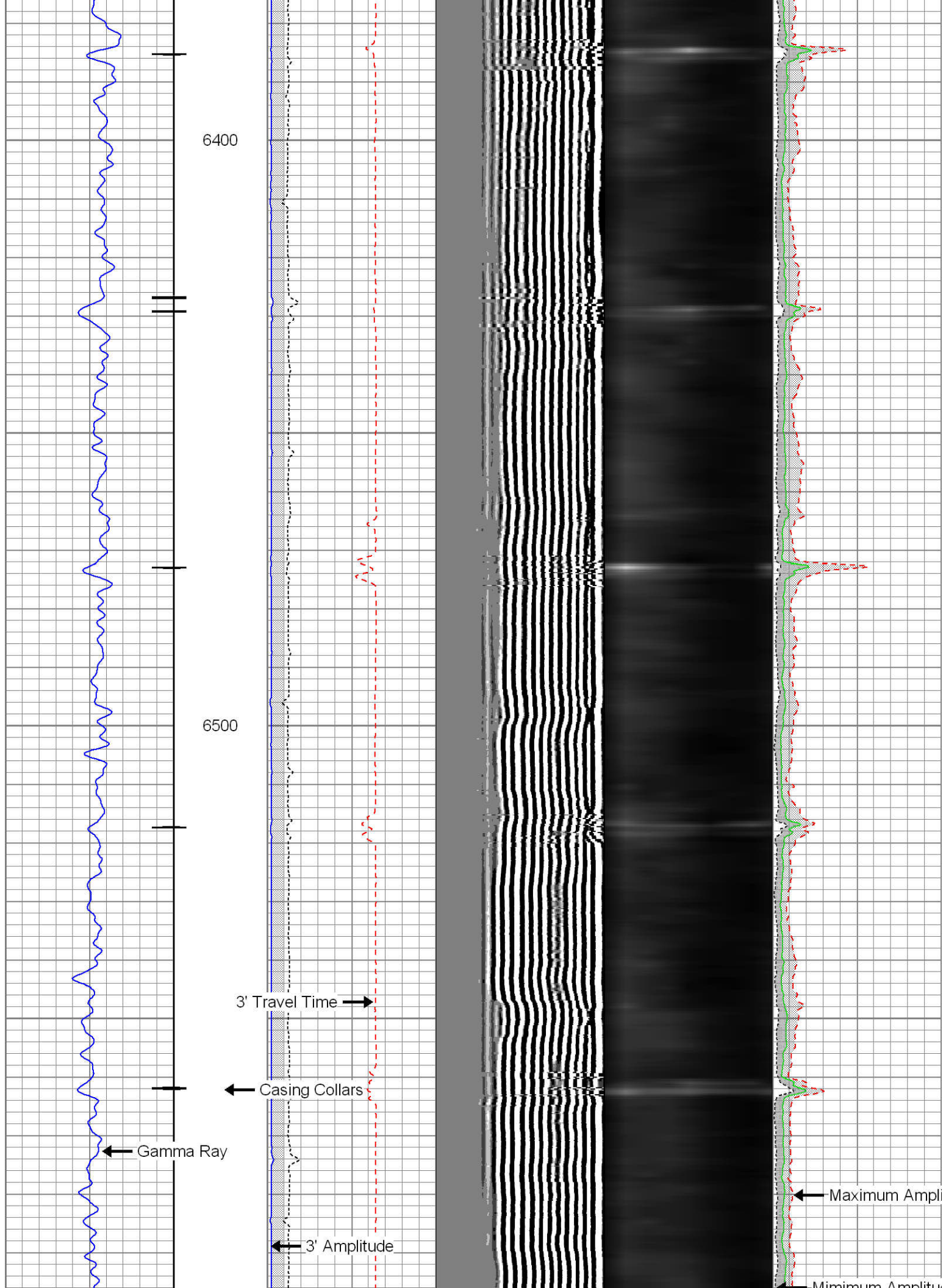


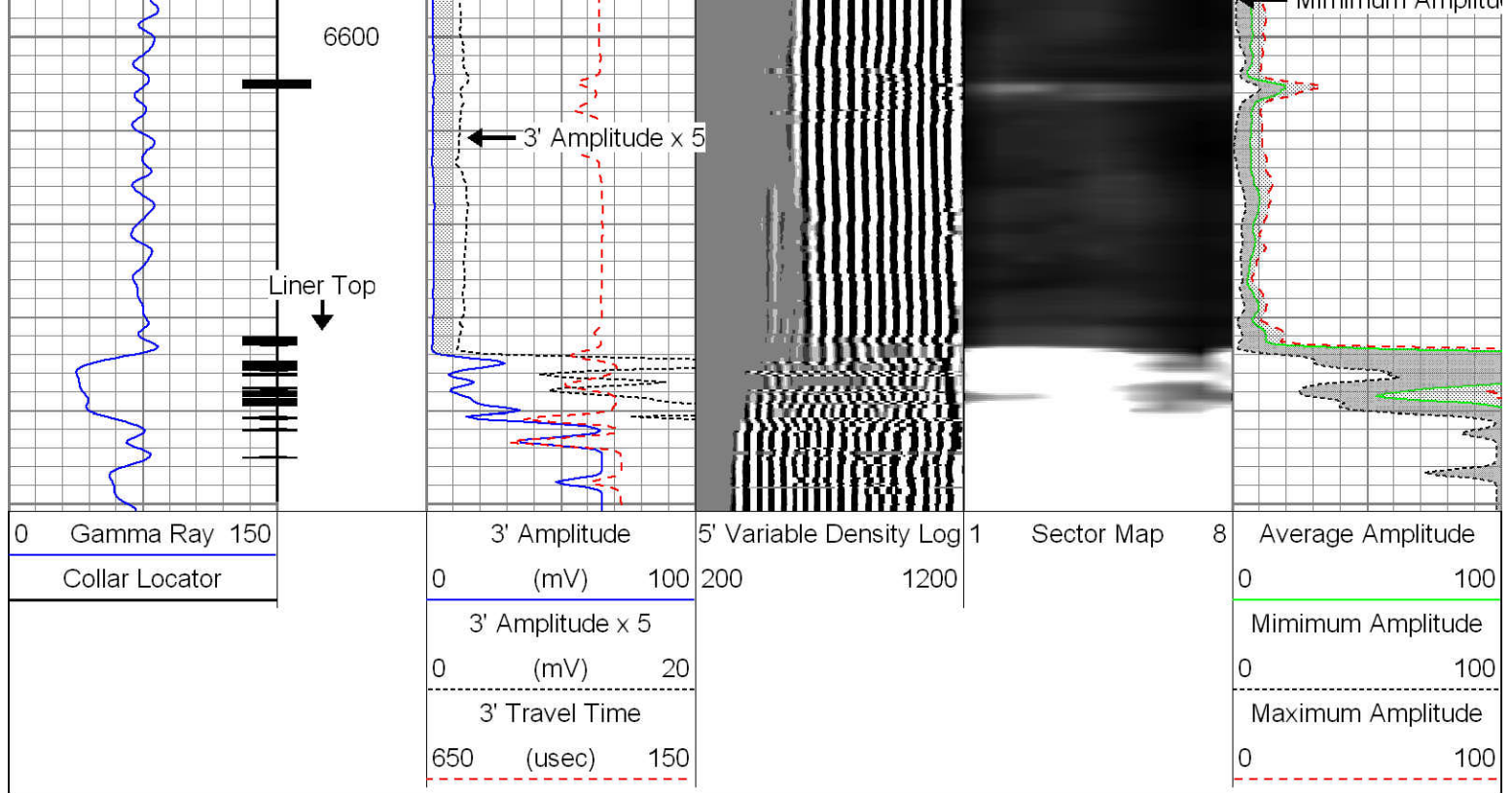




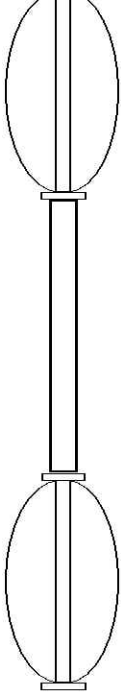








Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	22.06		AES1563 Applied Science 1-7/16" cablehead with 1" fishing neck	1.04	1.56	2.00
			CCL_LOG-TypeA (AAAA) Comprobe 2-3/4" Logging CCL with short body	1.53	2.75	26.00
			Sondex_IL_Cent Sondex bowspring inline electrical centralizer - 32.875"	2.74	2.75	20.00
TEMP	15.84					
WVFS1	14.47					
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					
			TekCo_RIB-Type_A (AAAA) TekCo 2-3/4" Radial Incremental Bond with piston compensator (with Temp)	9.56	2.75	123.00

WVFTEMP	8.93		Sondex_IL_Cent Sondex bowspring inline electrical centralizer - 32.875"	2.74	2.75	20.00
WVFSYNC	8.93					
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
Dataset: niles_29n-28hz.db: field/well/run1/pass3 Total Length: 23.80 ft Total Weight: 249.00 lb O.D. 2.75 in						

	Company	KERR-McGEE OIL & GAS ONSHORE, L
	Well	Niles 29N-28HZ
	Field	Wattenburg
	County	Weld
	State	Colorado