



Providing Superior Value

RADIAL CEMENT BOND GAMMA RAY CASING COLLAR LOG

Company	KERR-McGEE OIL & GAS ONSHORE, L.P.										
Well	REIGLE 3N-4HZ										
Field	WATTENBERG										
County	WELD										
State	COLORADO										
Company	KERR-McGEE OIL & GAS ONSHORE, L.P.										
Well	REIGLE 3N-4HZ										
Field	WATTENBERG										
County	WELD										
State	COLORADO										
Location:	API # : 05-123-36137-00										
SHL: NA										Other Services	
SEC 4 TWP 2N RGE 65W										PLUG	
Permanent Datum	GROUND LEVEL Elevation 4874										Elevation
Log Measured From	KELLY BUSHING 16'										K.B. 4890
Drilling Measured From	KELLY BUSHING										D.F. NA
											G.L. 4874

Date	19-JAN-2013
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Run Number	ONE
Depth Driller	NA
Depth Logger	6590
Bottom Logged Interval	6587
Top Log Interval	0
Open Hole Size	9.625"
Type Fluid	WATER
Density / Viscosity	8.34 LB/GAL
Max. Recorded Temp.	248 F
Estimated Cement Top	72
Time Well Ready	ROA
Time Logger on Bottom	---
Equipment Number	HD 0255
Location	FORT LUPTON, CO
Recorded By	GREG JACKSON
Witnessed By	FERNANDO ORTEGA

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 lbs	SURFACE	NA
Prot. String				
Production String	7	26 lbs	SURFACE	NA
Liner	4 1/2	11.6 lbs	6536	11,039

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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 @ 6536
RUN RBL FROM JUST BELOW LINER TOP TO SURFACE
RBL LOGGED WITH 2800 PSI INDUCED PRESSURE @ SURFACE
ESTIMATED TOP OF CEMENT @ 72'
CORRECTED -4' @ LINER TOP WITH ZERO @ KB

THANK YOU FOR USING PURE ENERGY WIRELINE AN FMC TECHNOLOGIES COMPANY

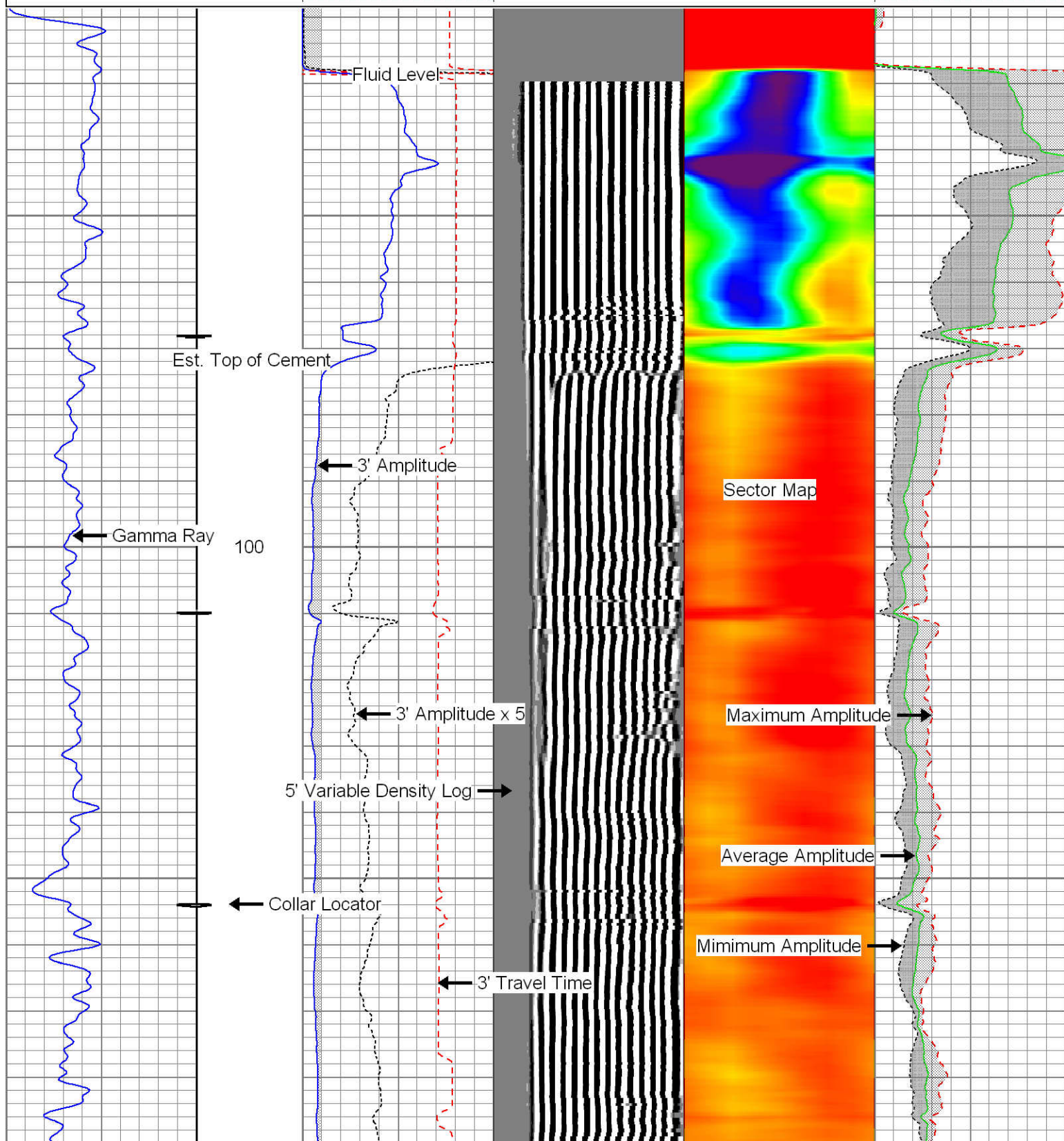


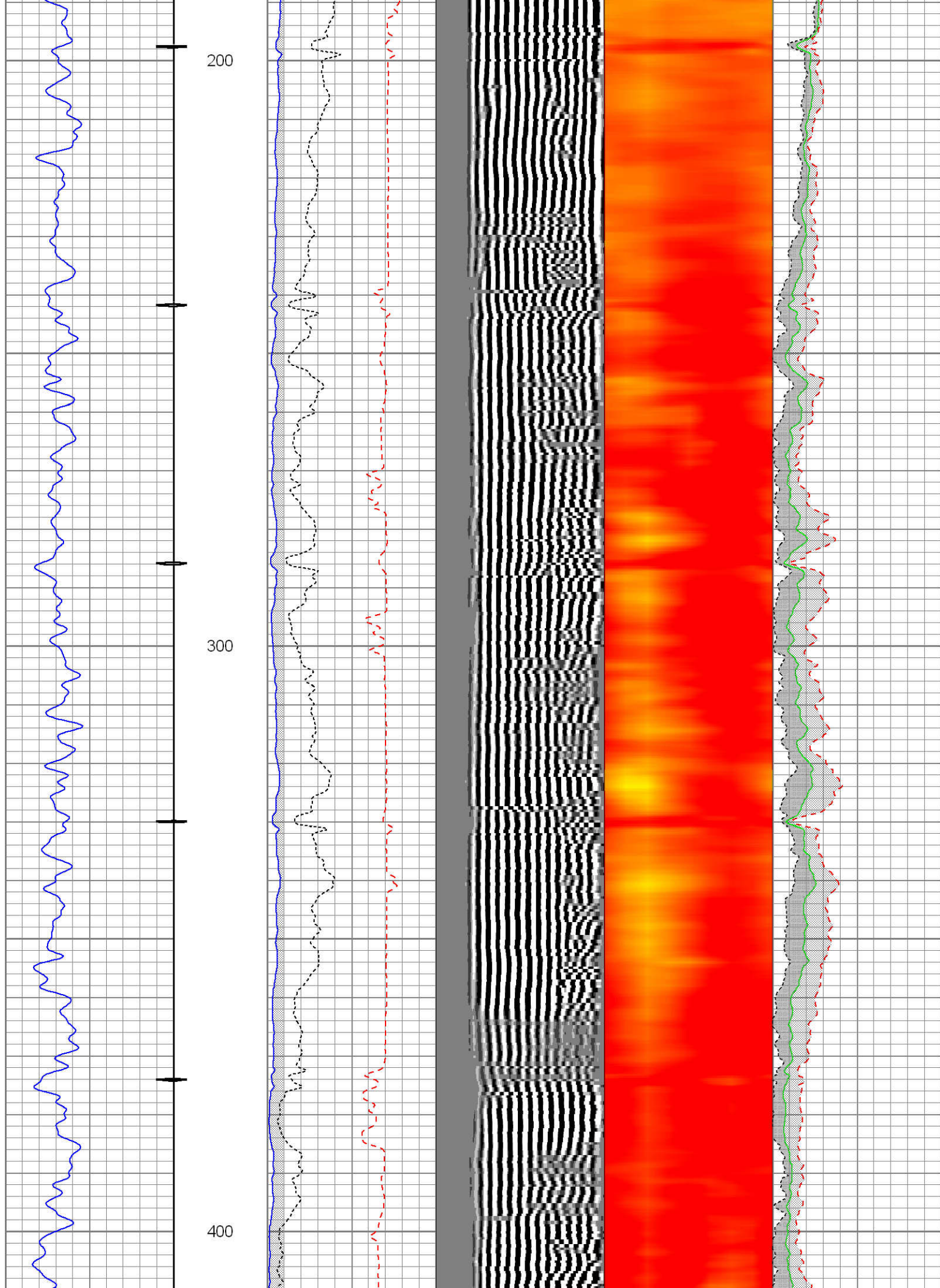
MAIN PASS

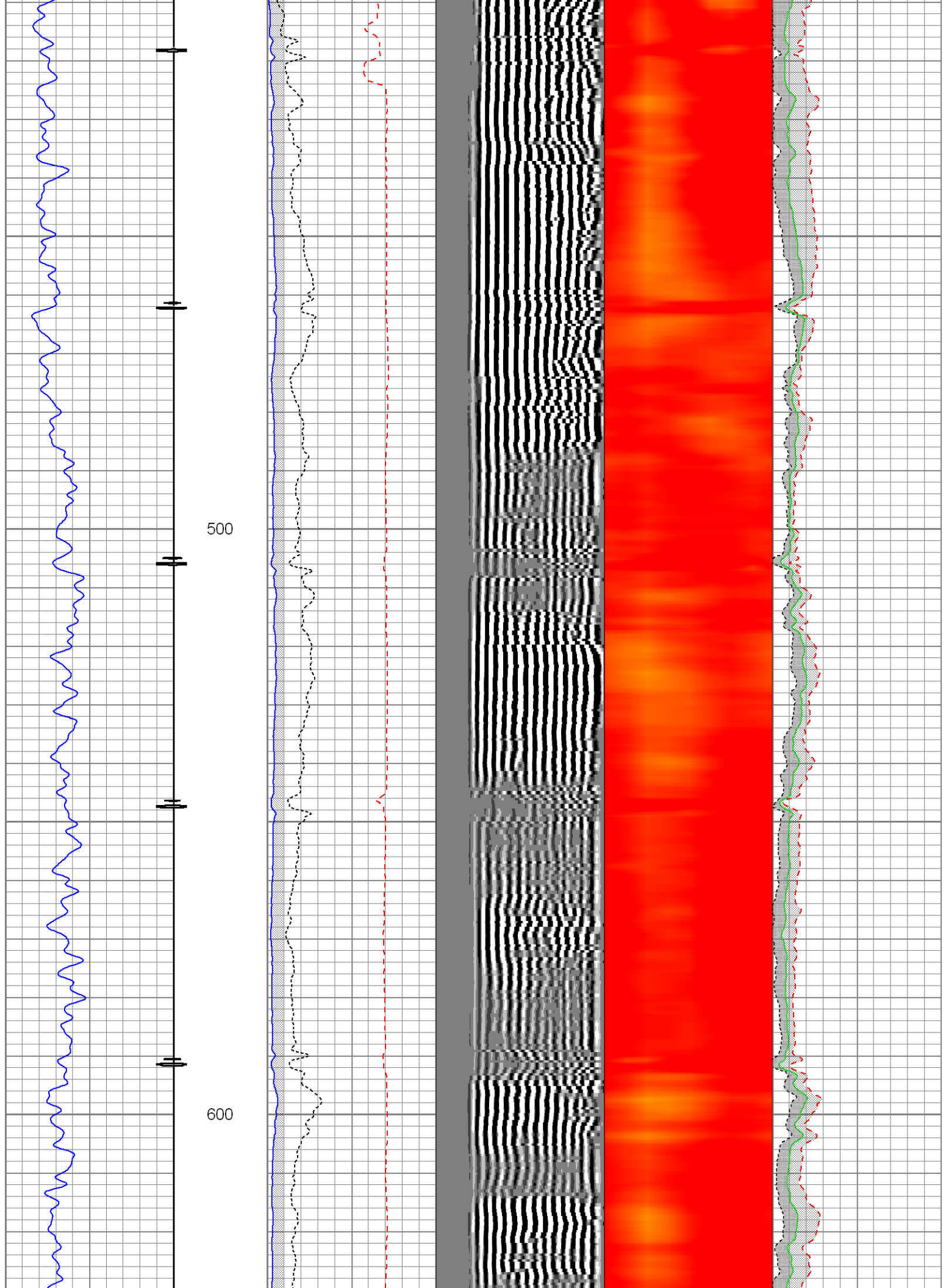
LOGGED WITH 2800 PSI INDUCED AT SURFACE

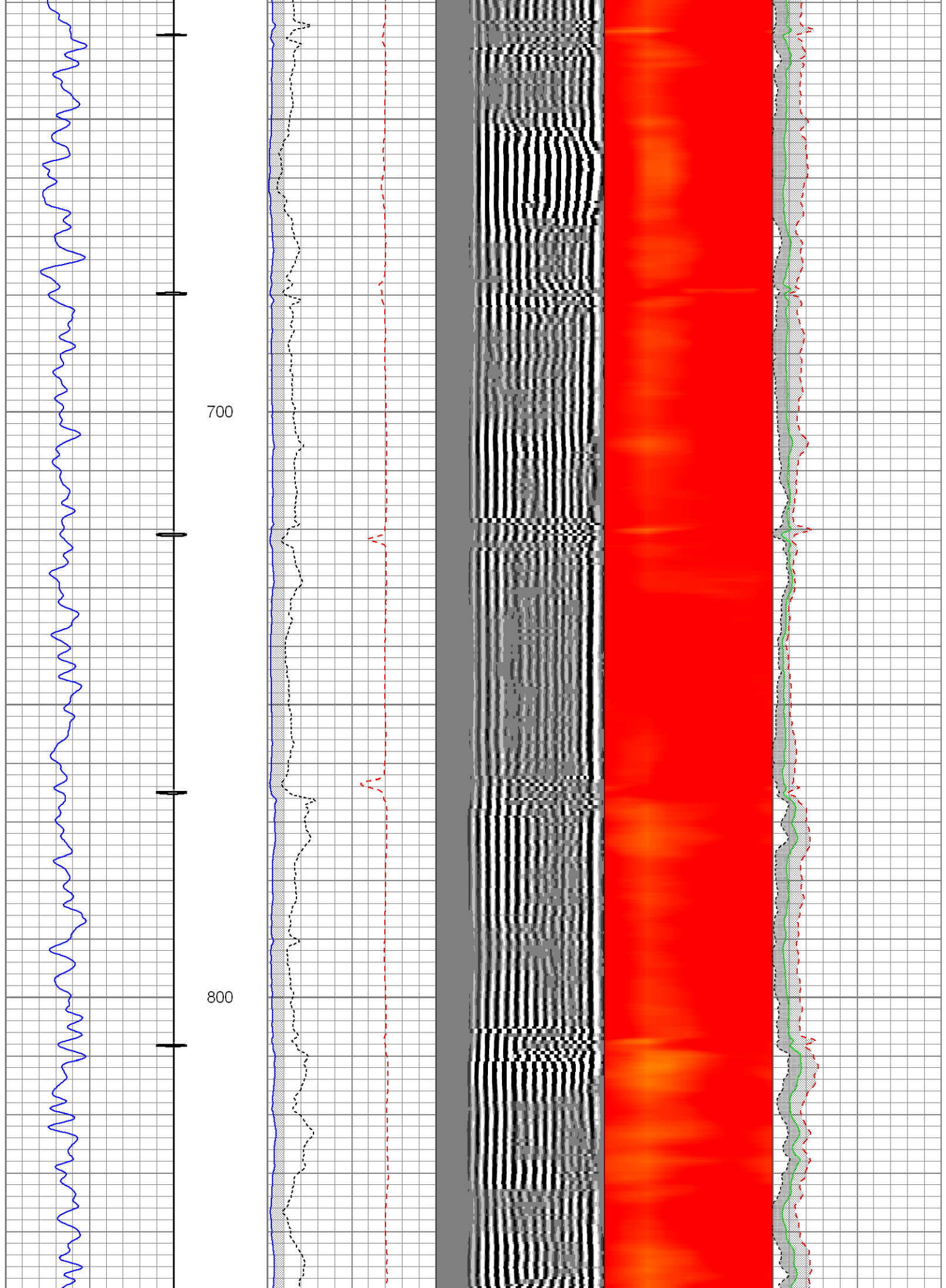
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Dataset Pathname: pass9
Presentation Format: rib
Dataset Creation: Sat Jan 19 12:16:09 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

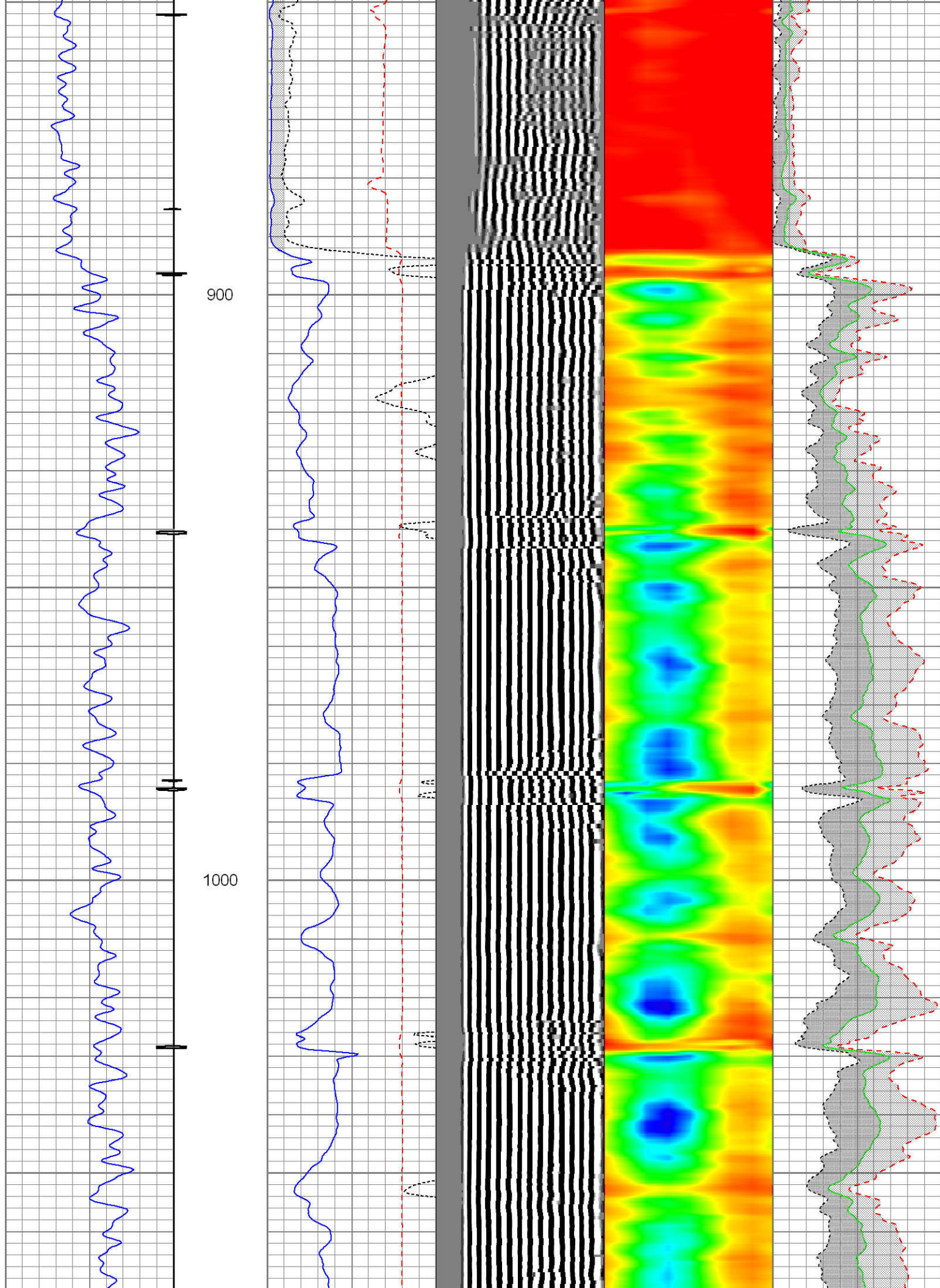
0	Gamma Ray	150	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
	Collar Locator		0 (mV) 100	200 1200		0 100
			3' Amplitude x 5			Minimum Amplitude
			0 (mV) 20			0 100
			3' Travel Time			Maximum Amplitude
			650 (usec) 150			0 100

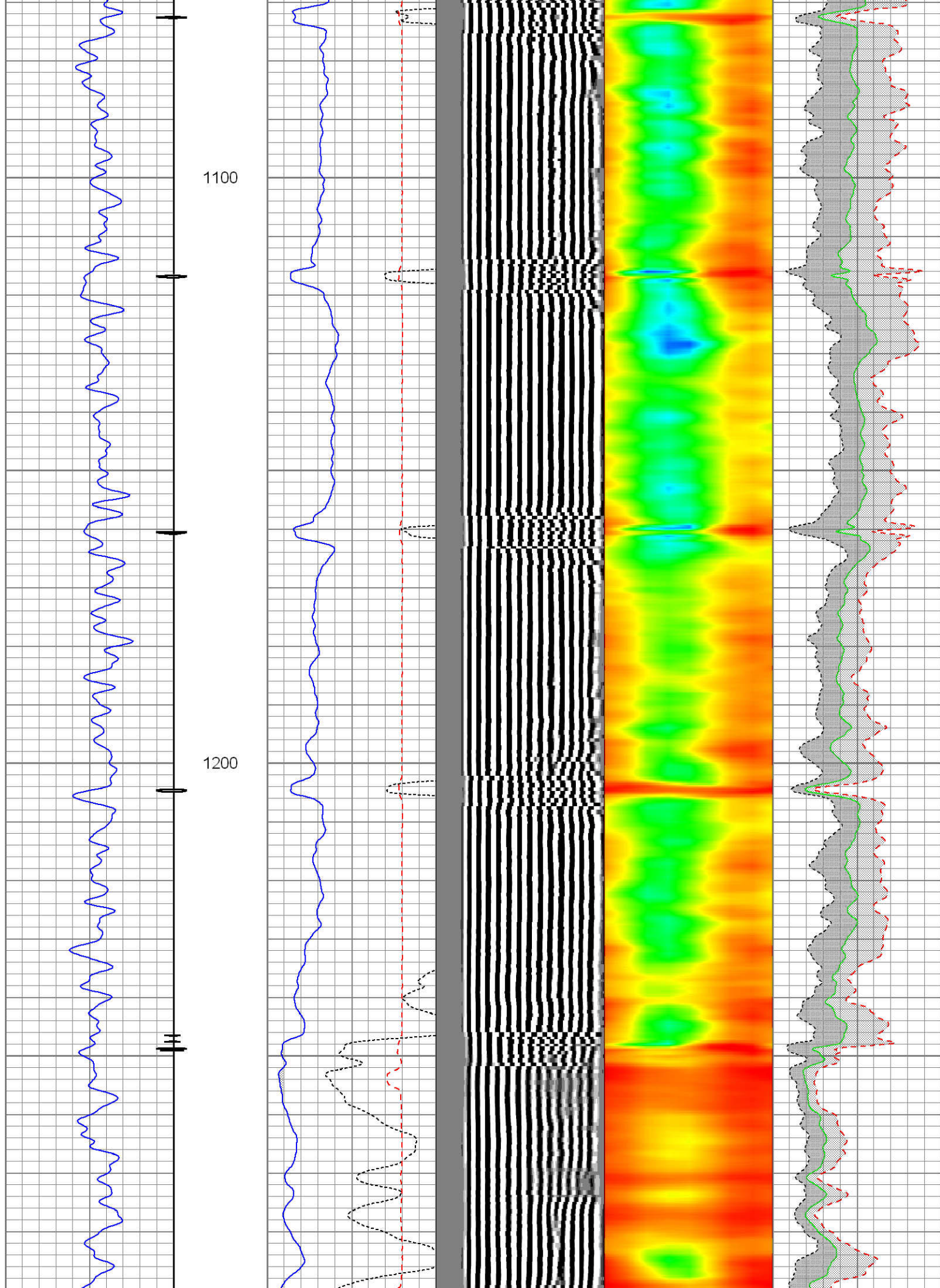


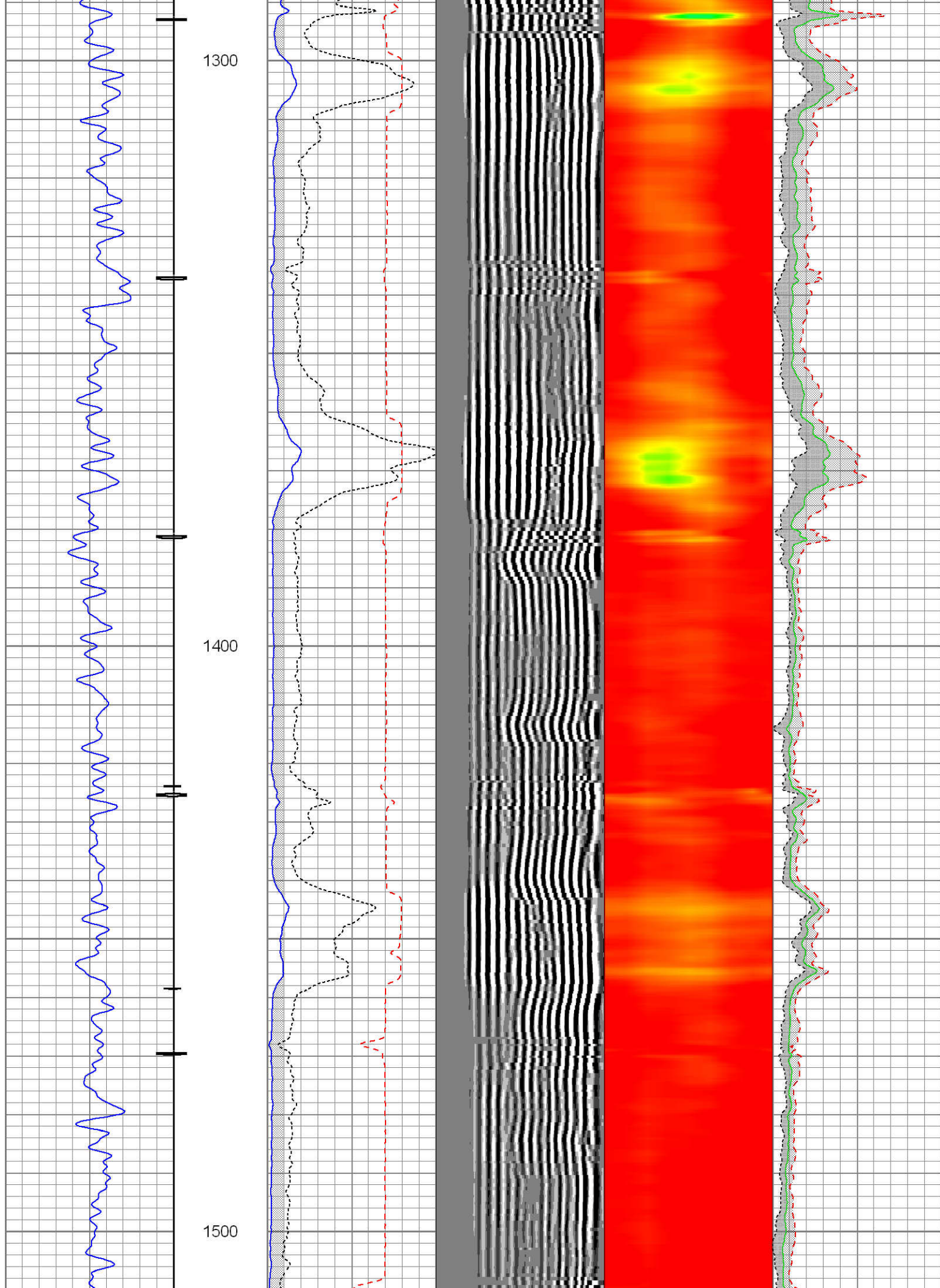


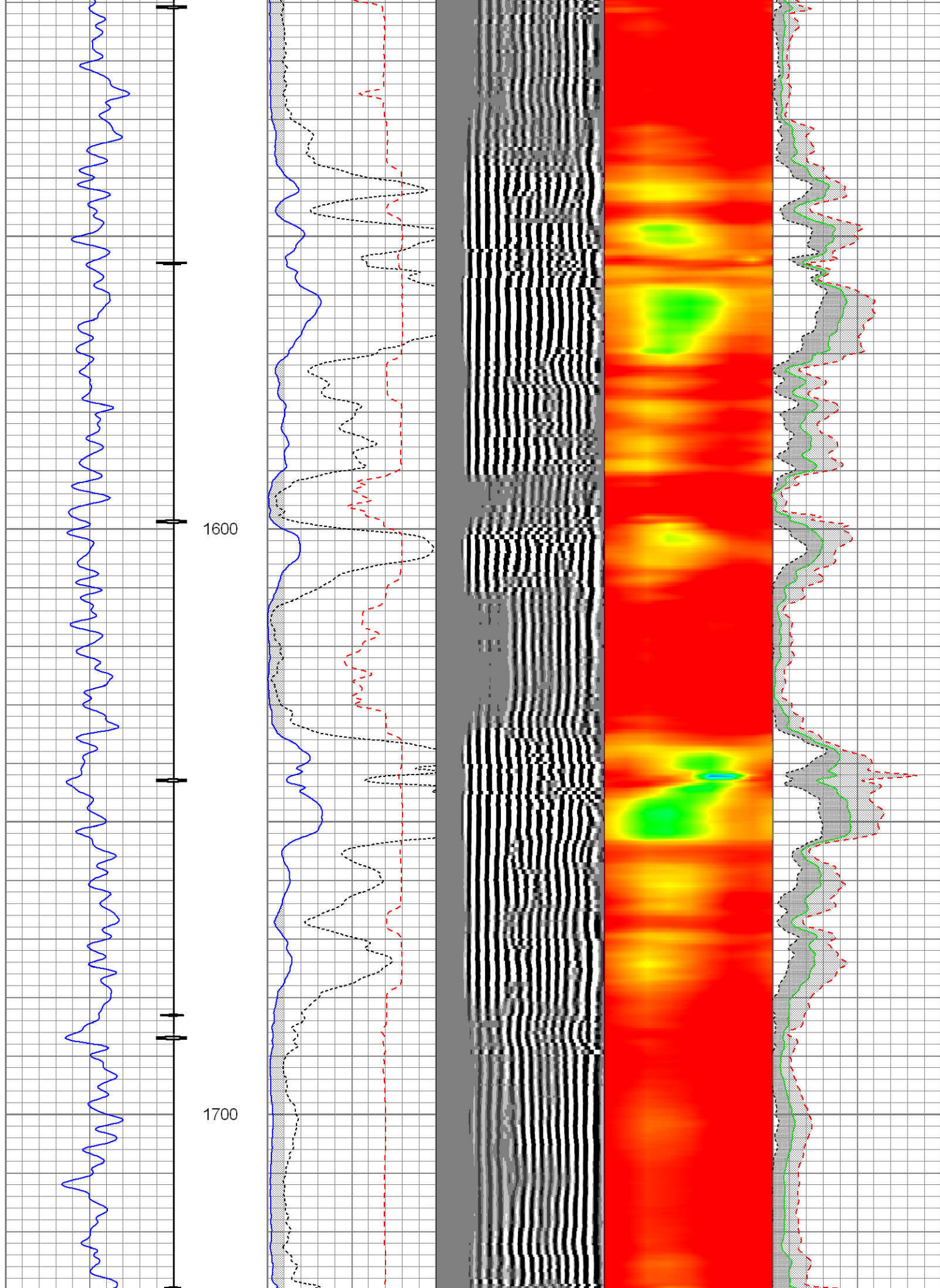


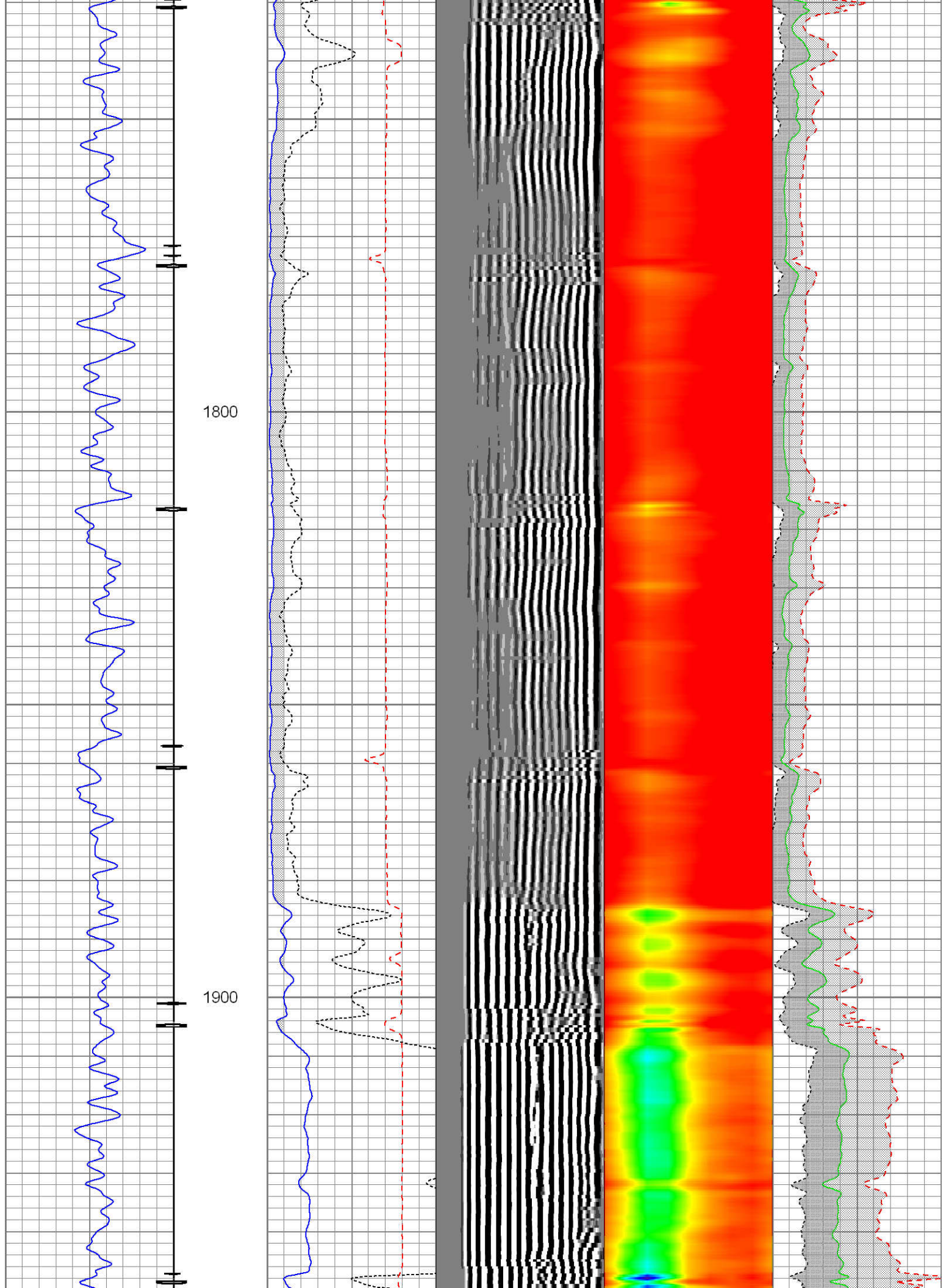


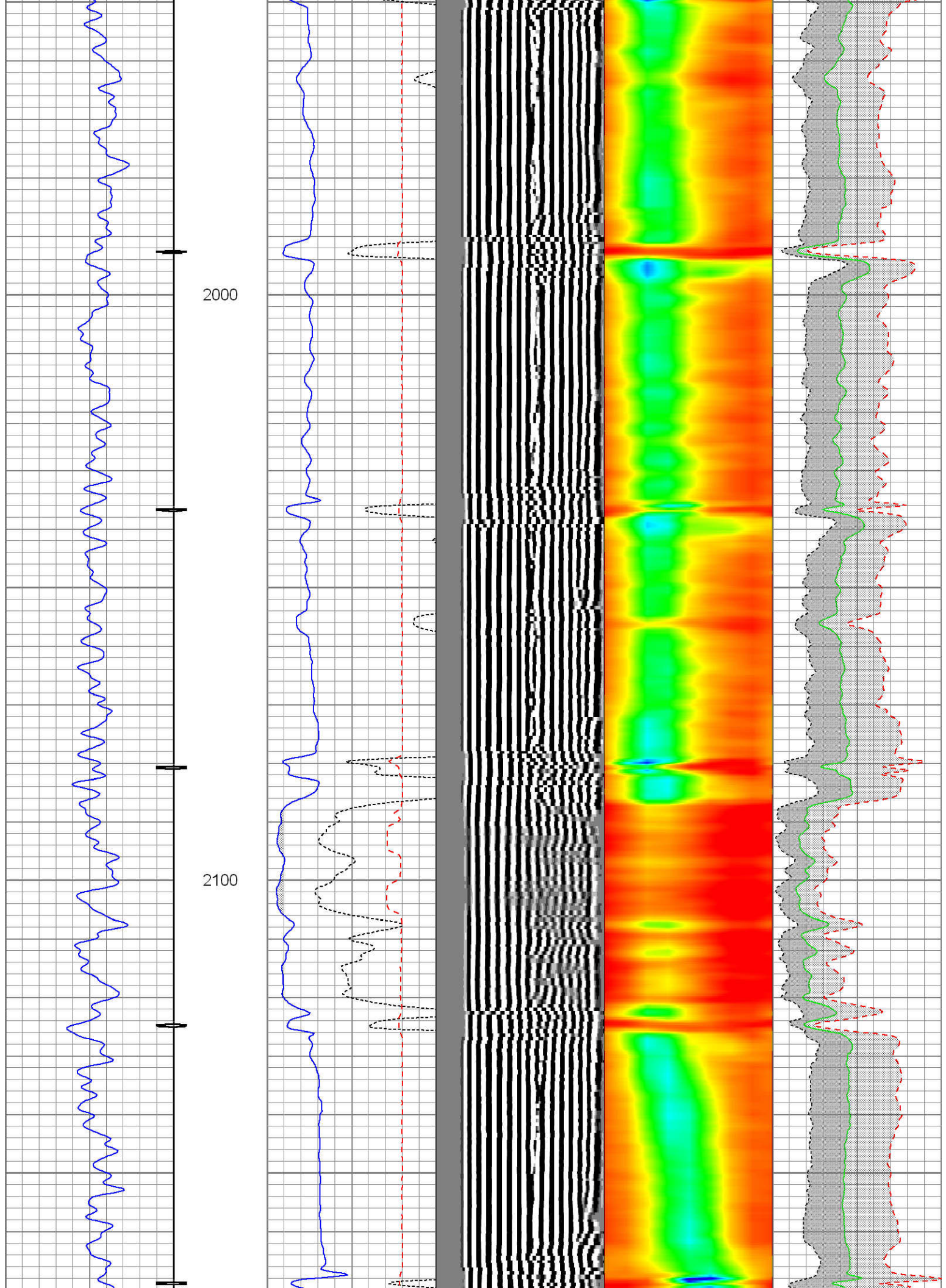


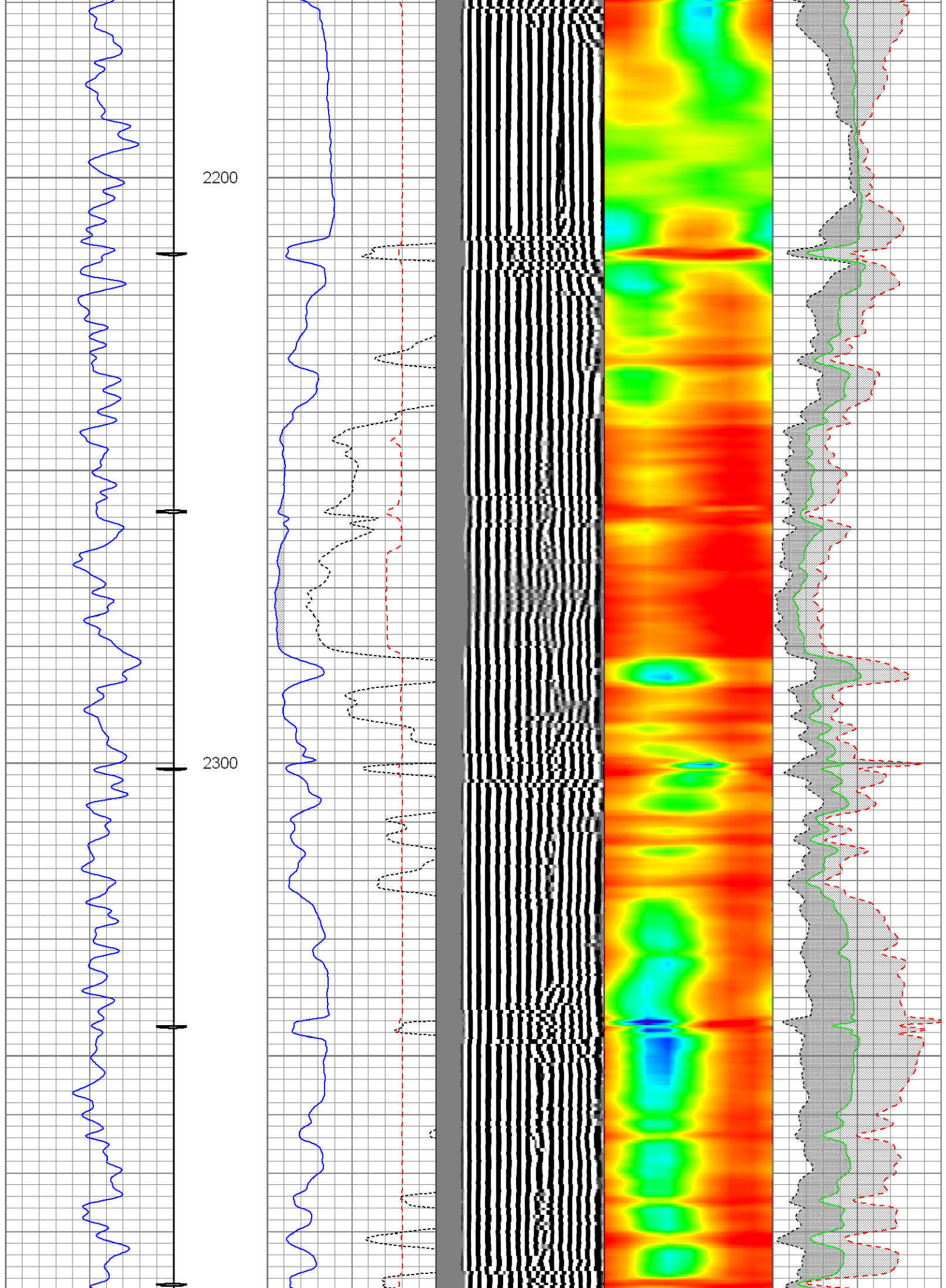


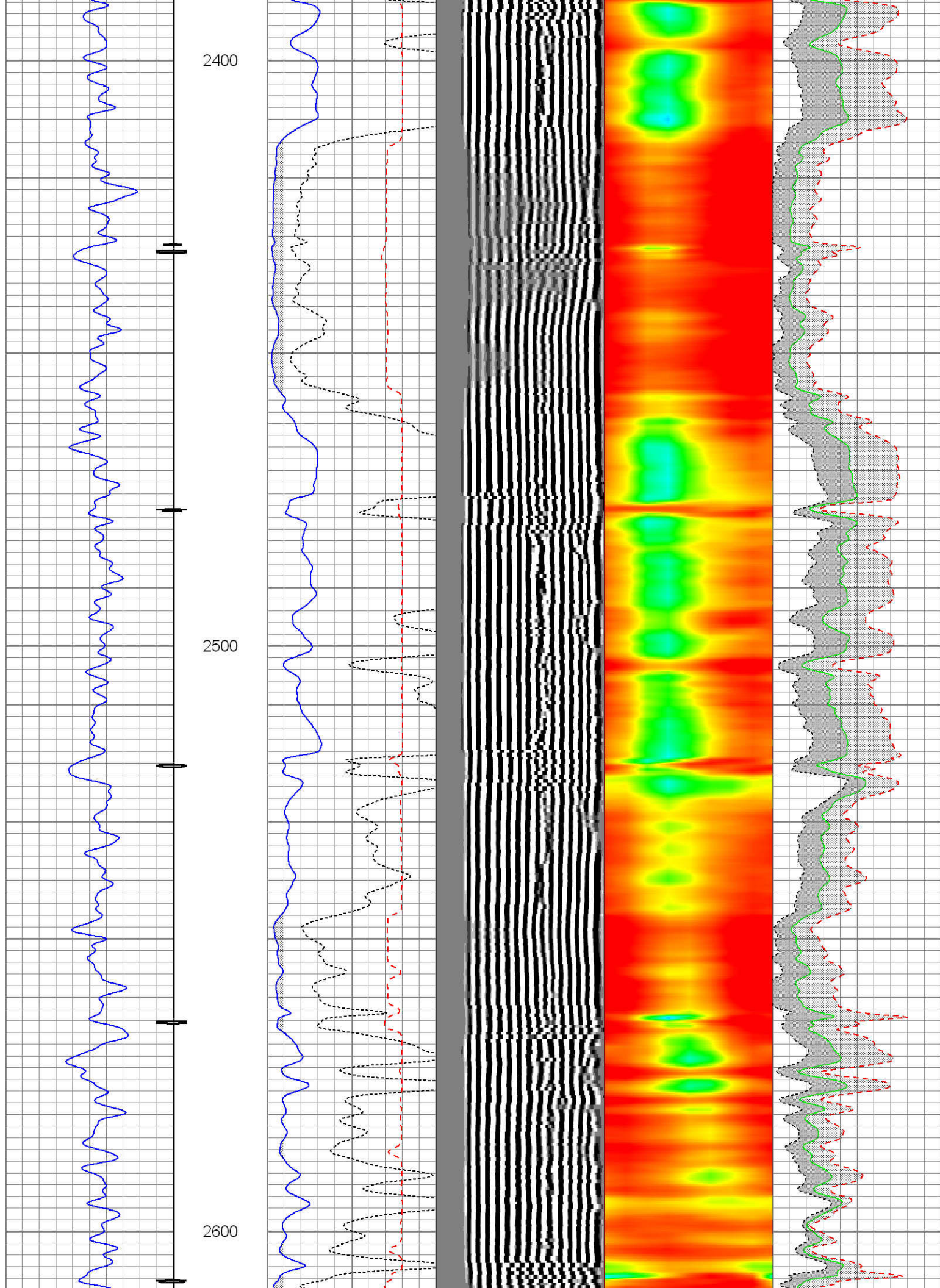


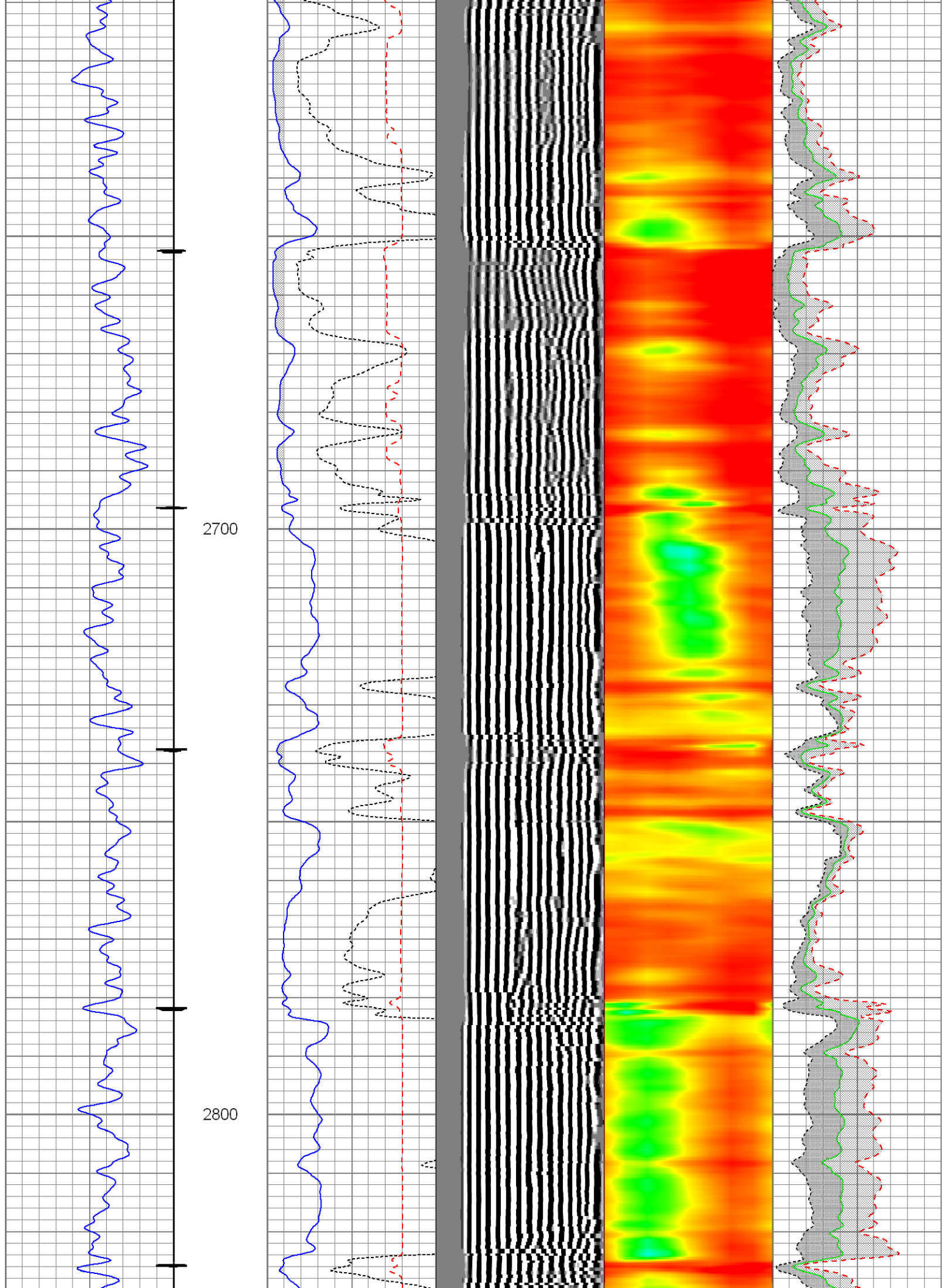


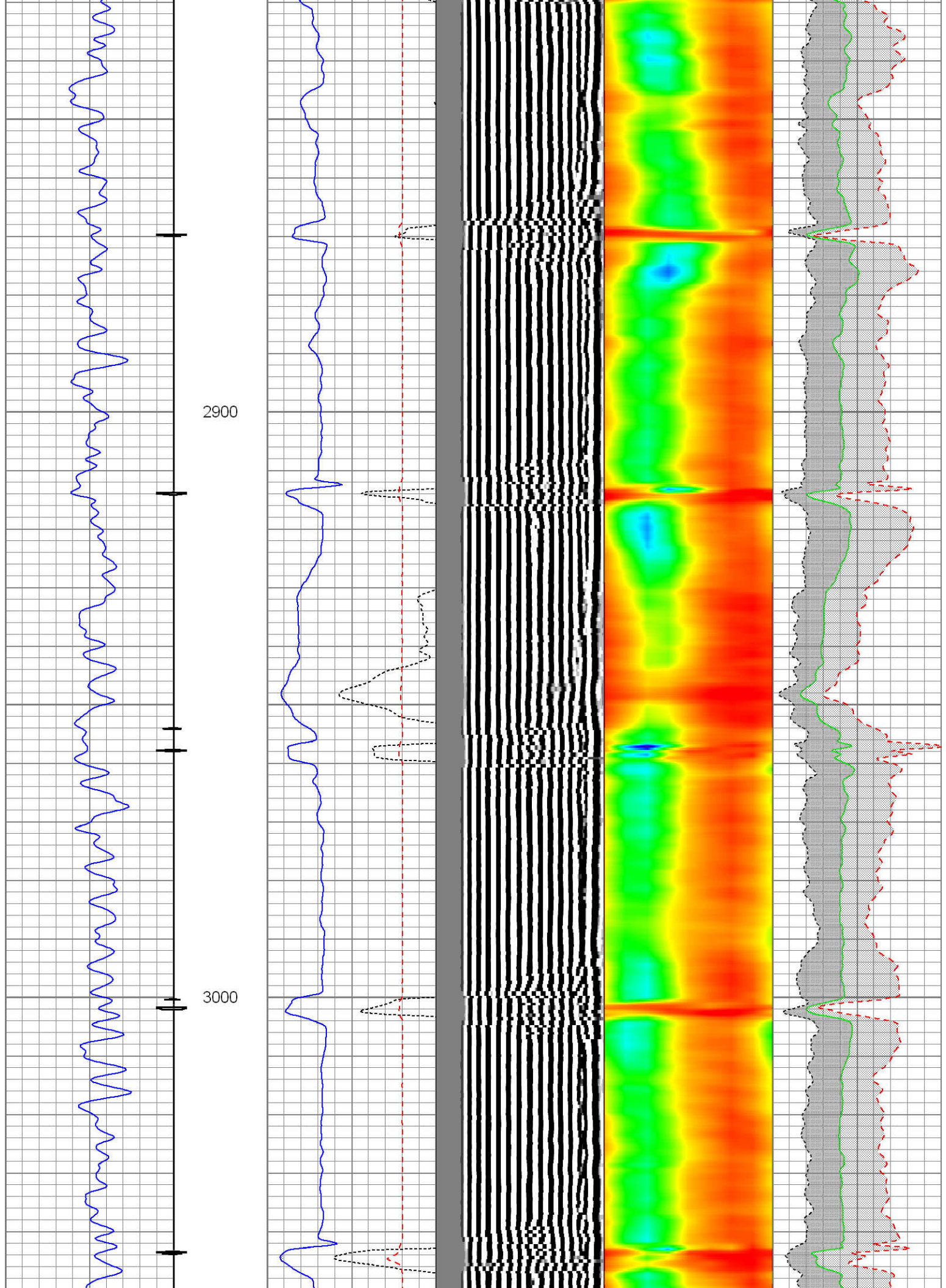


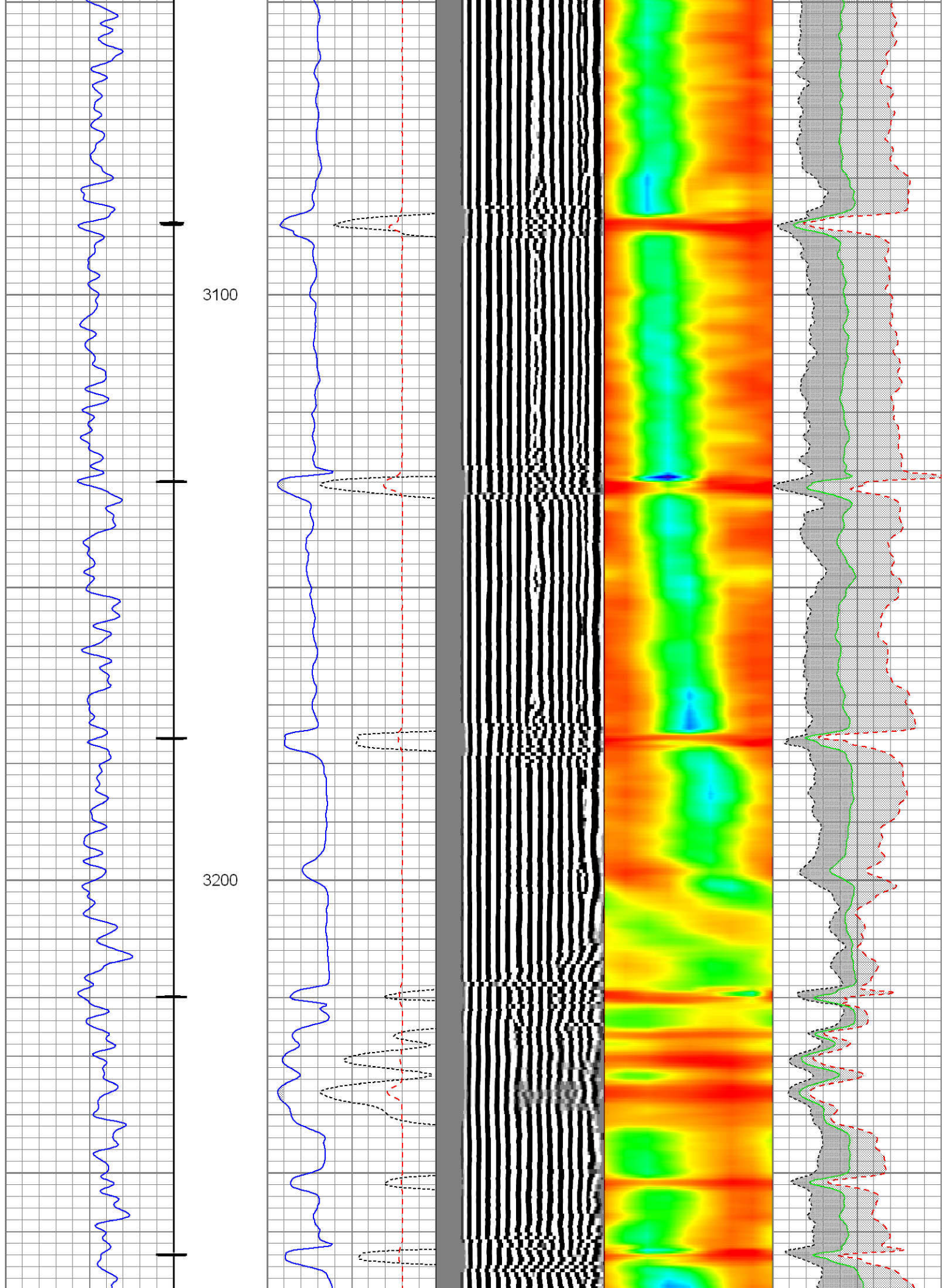


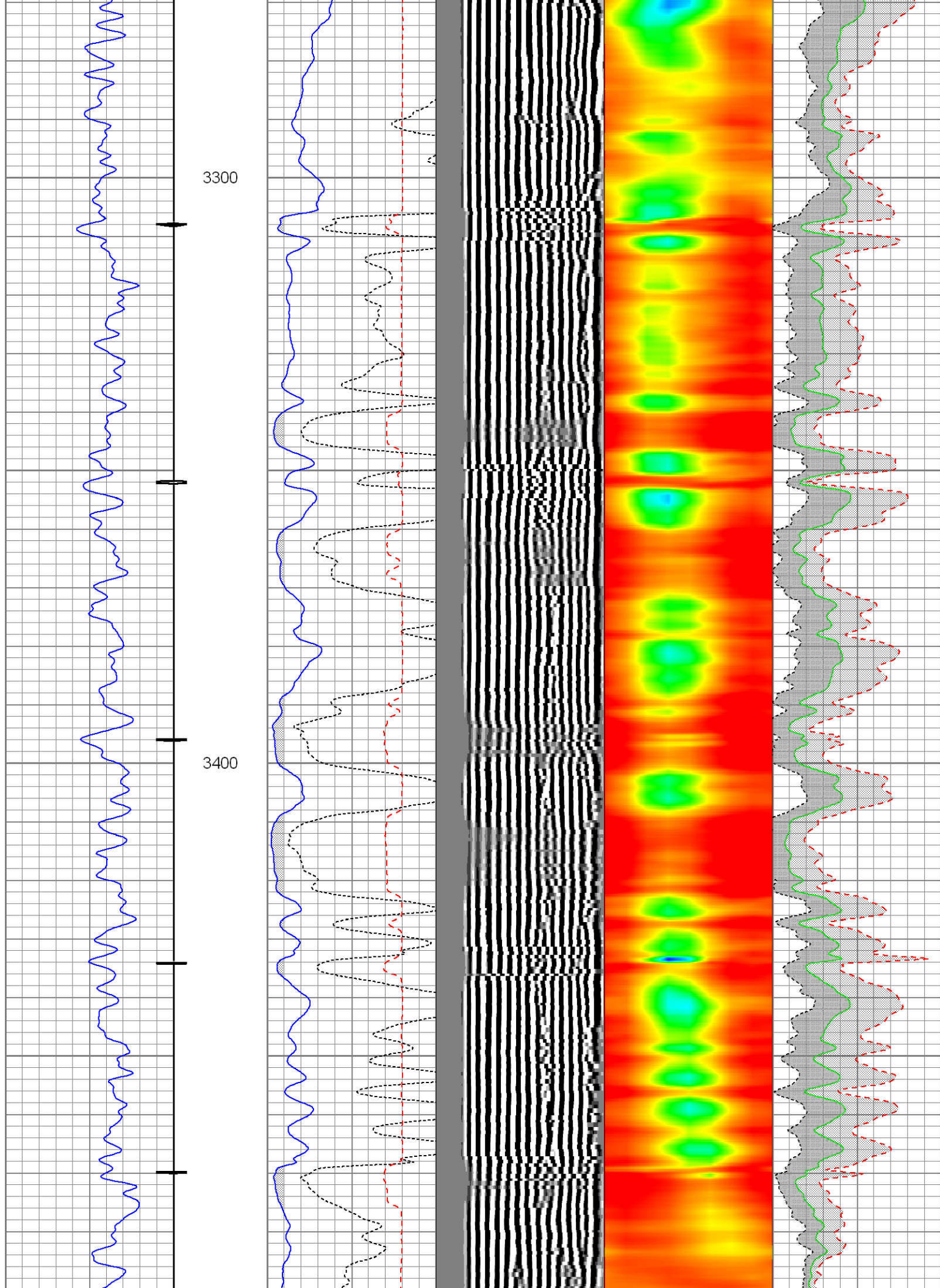


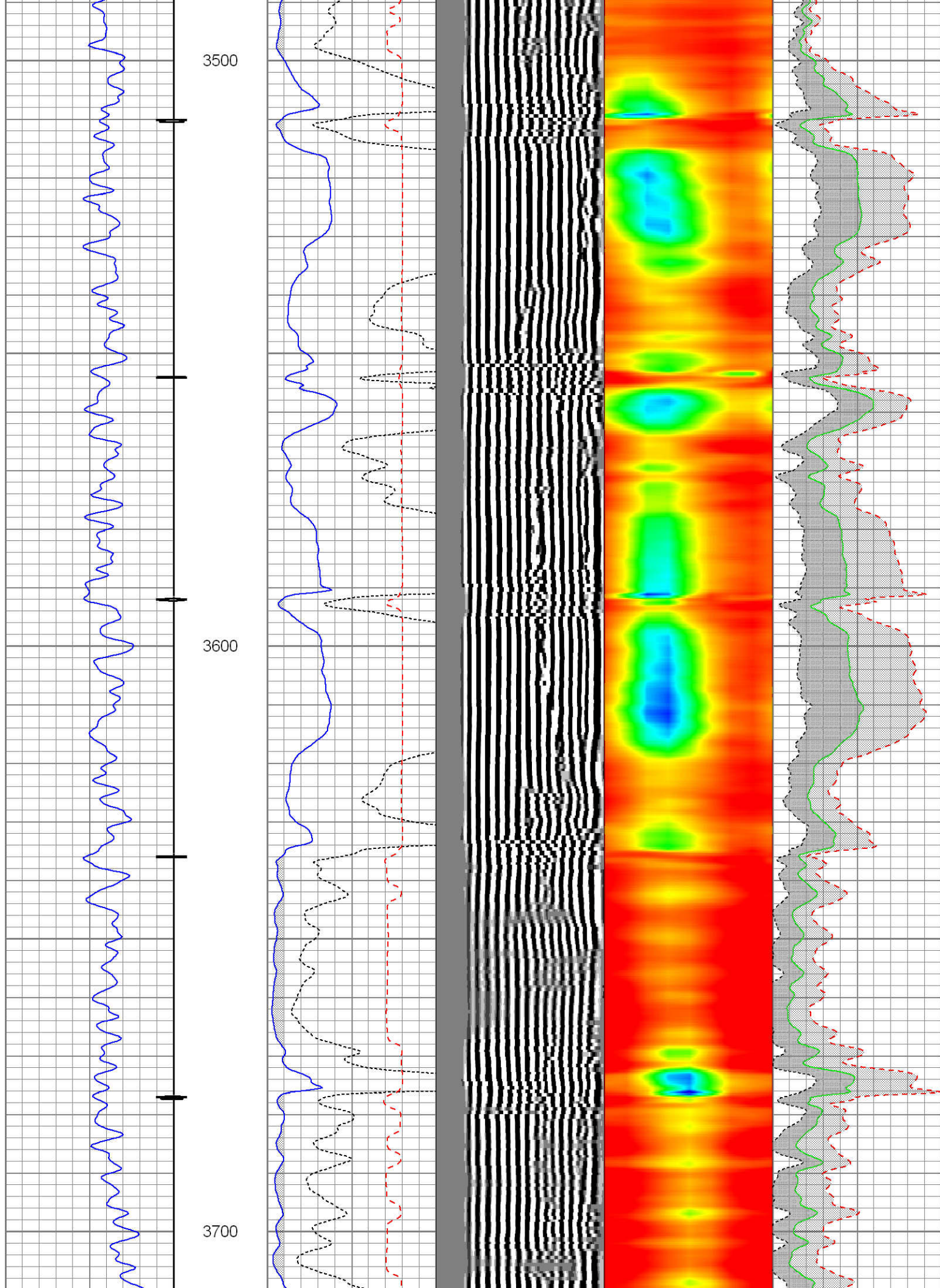


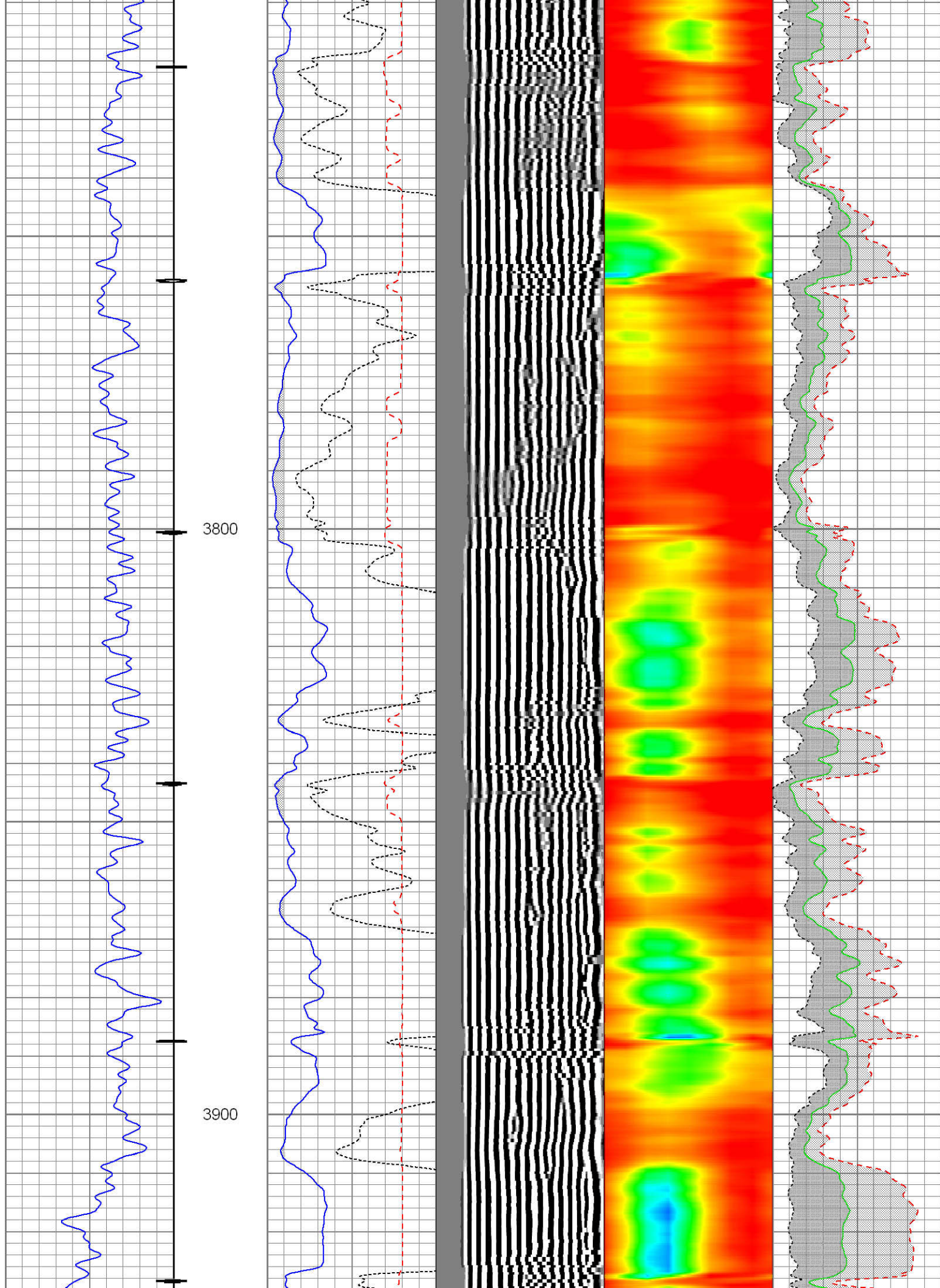


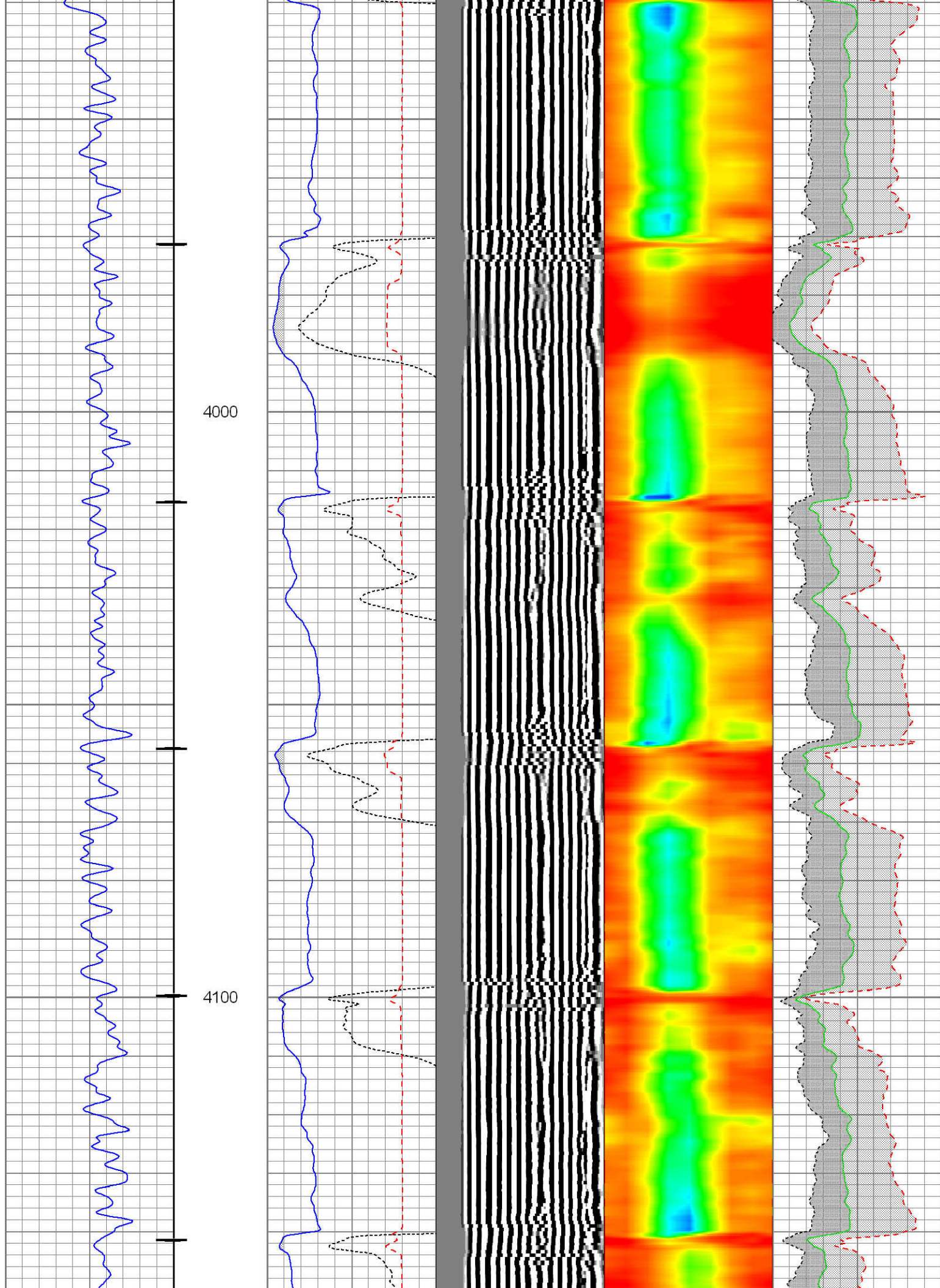


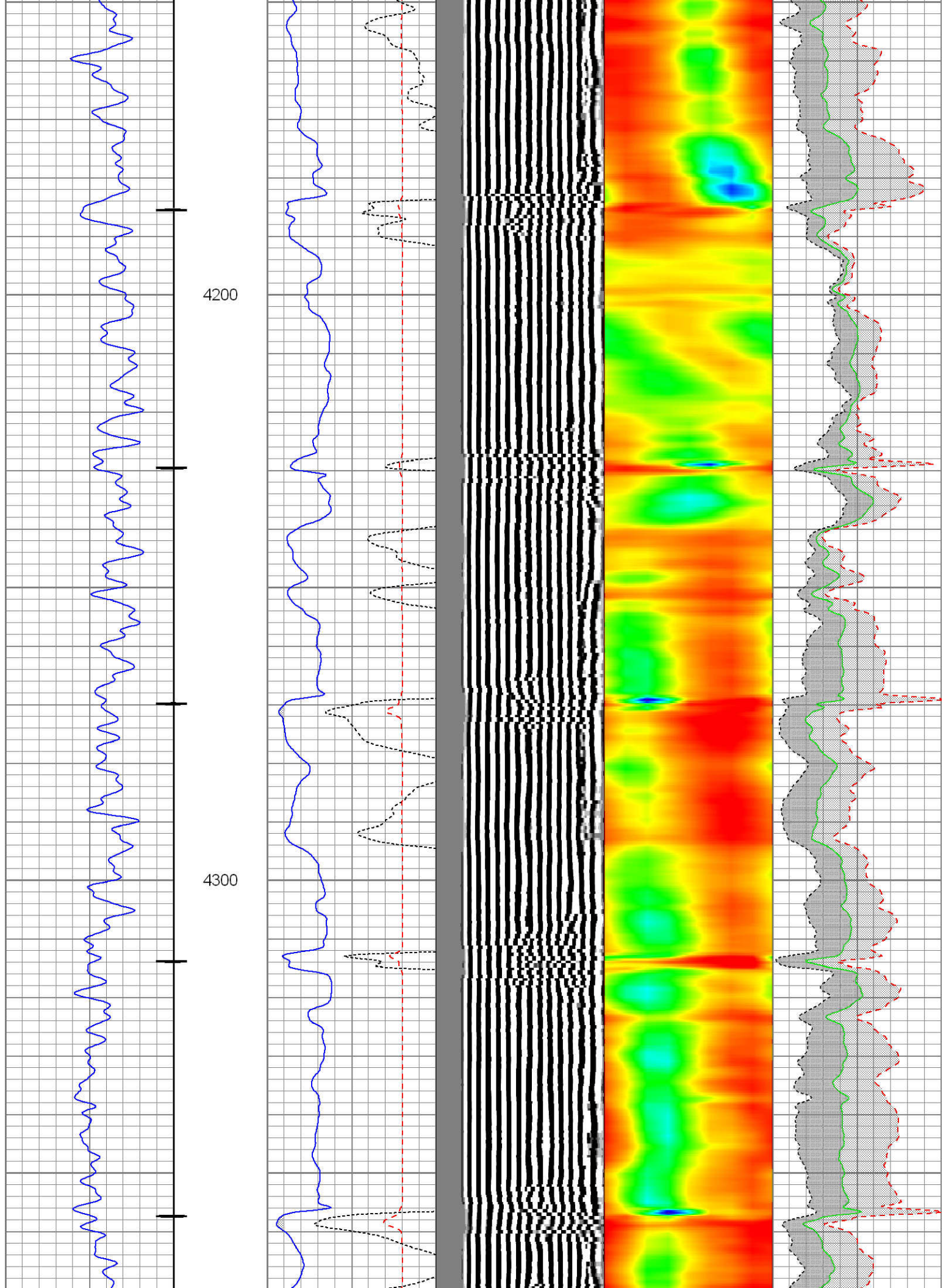


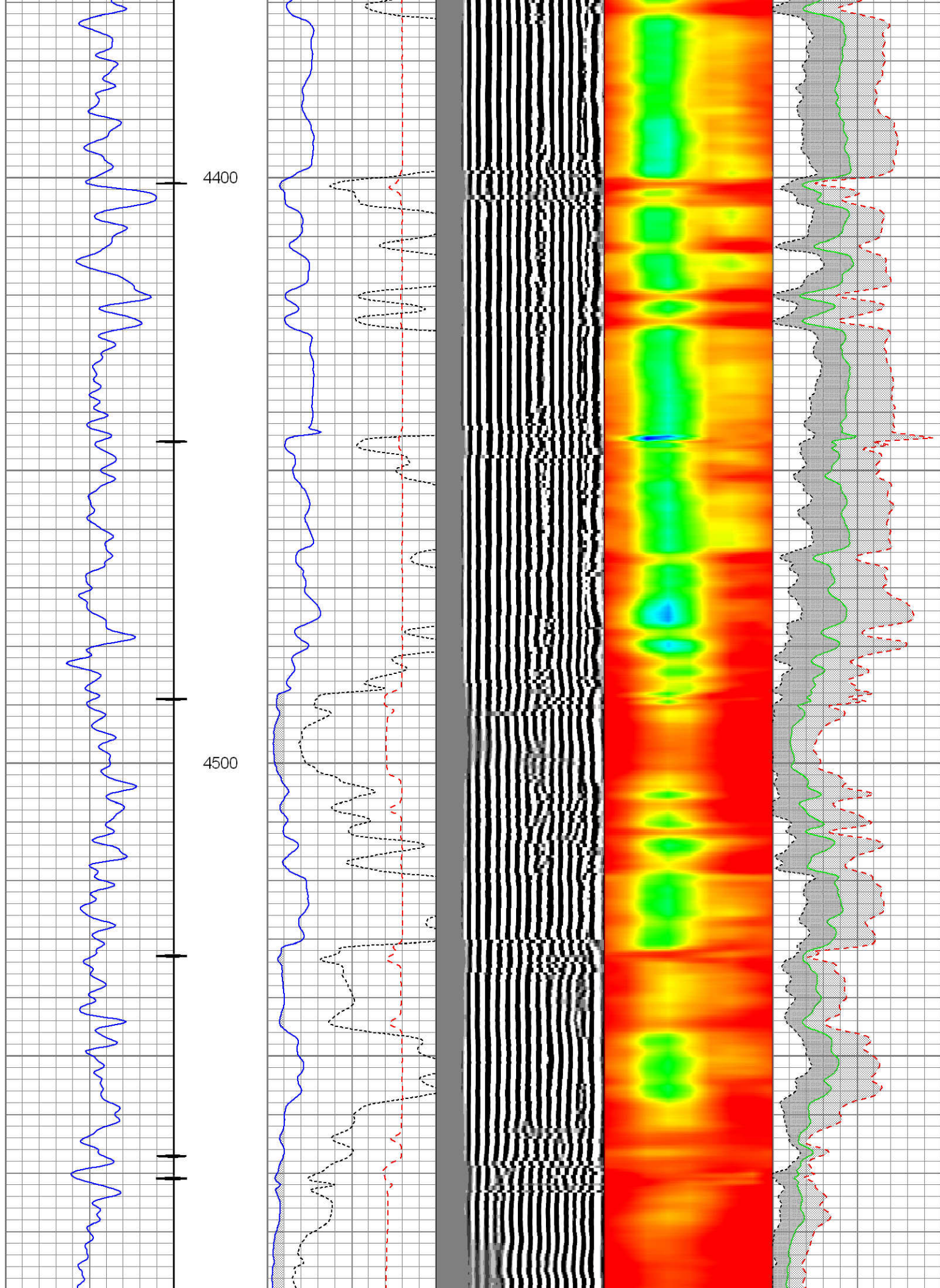


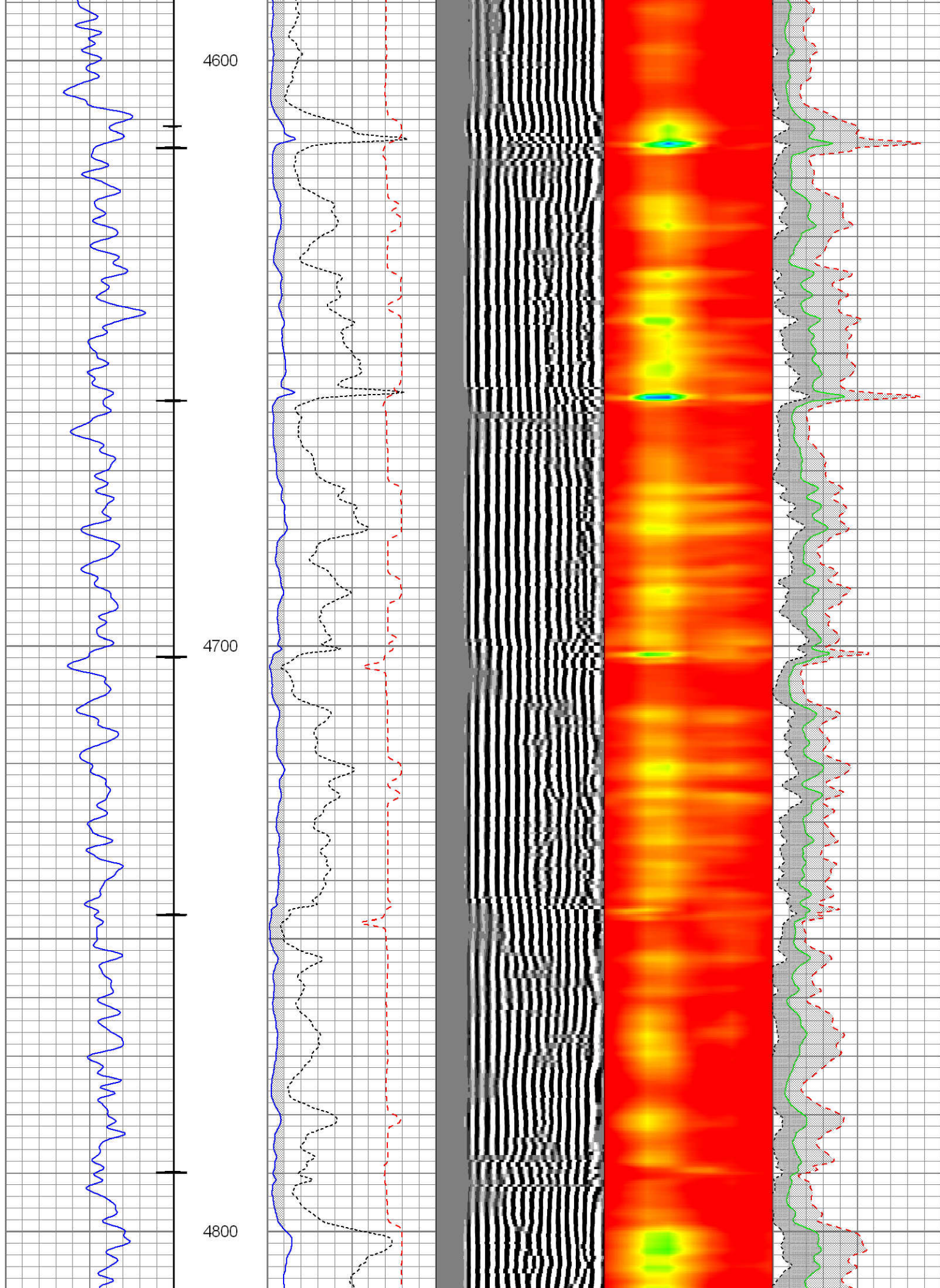


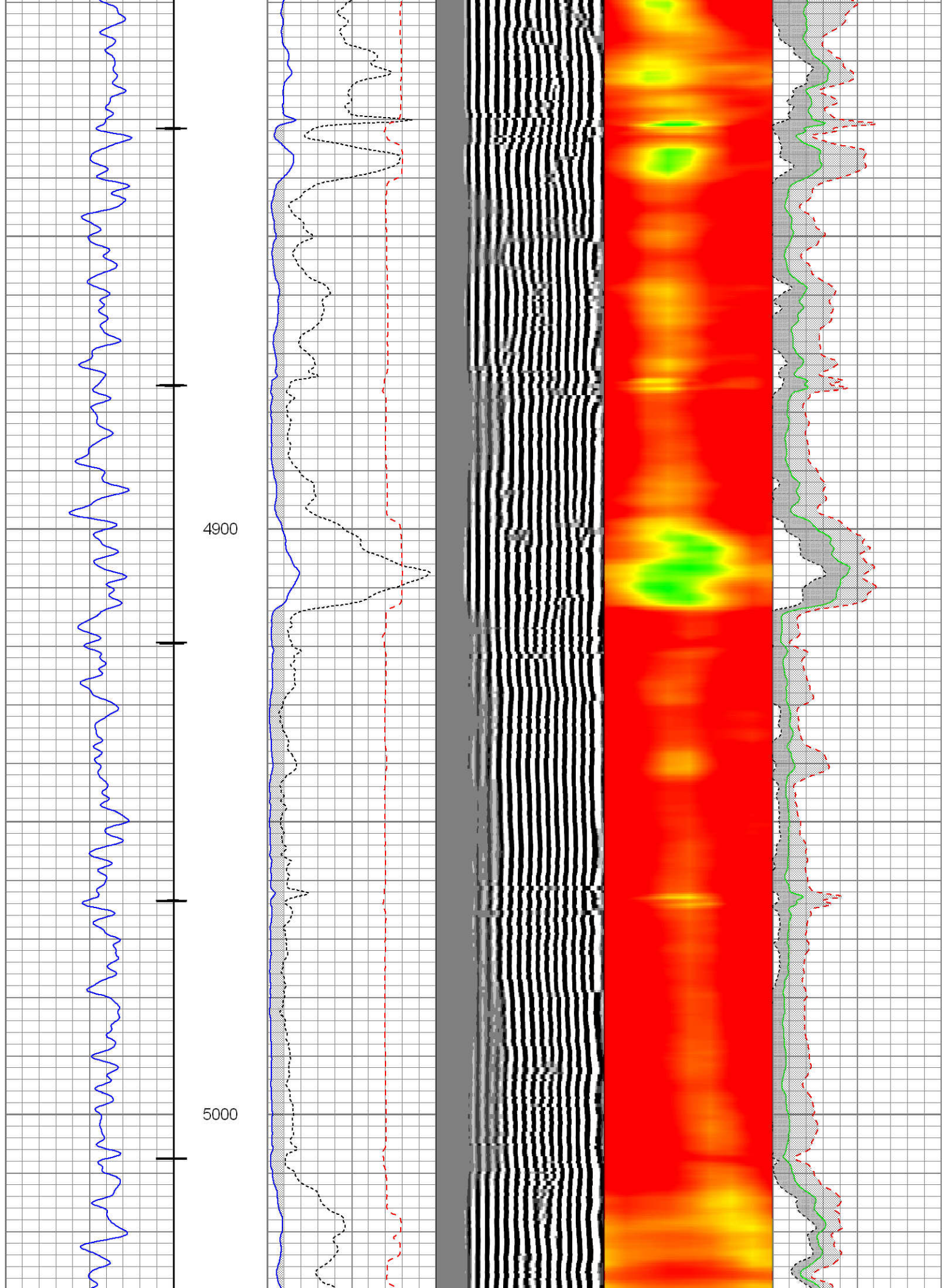


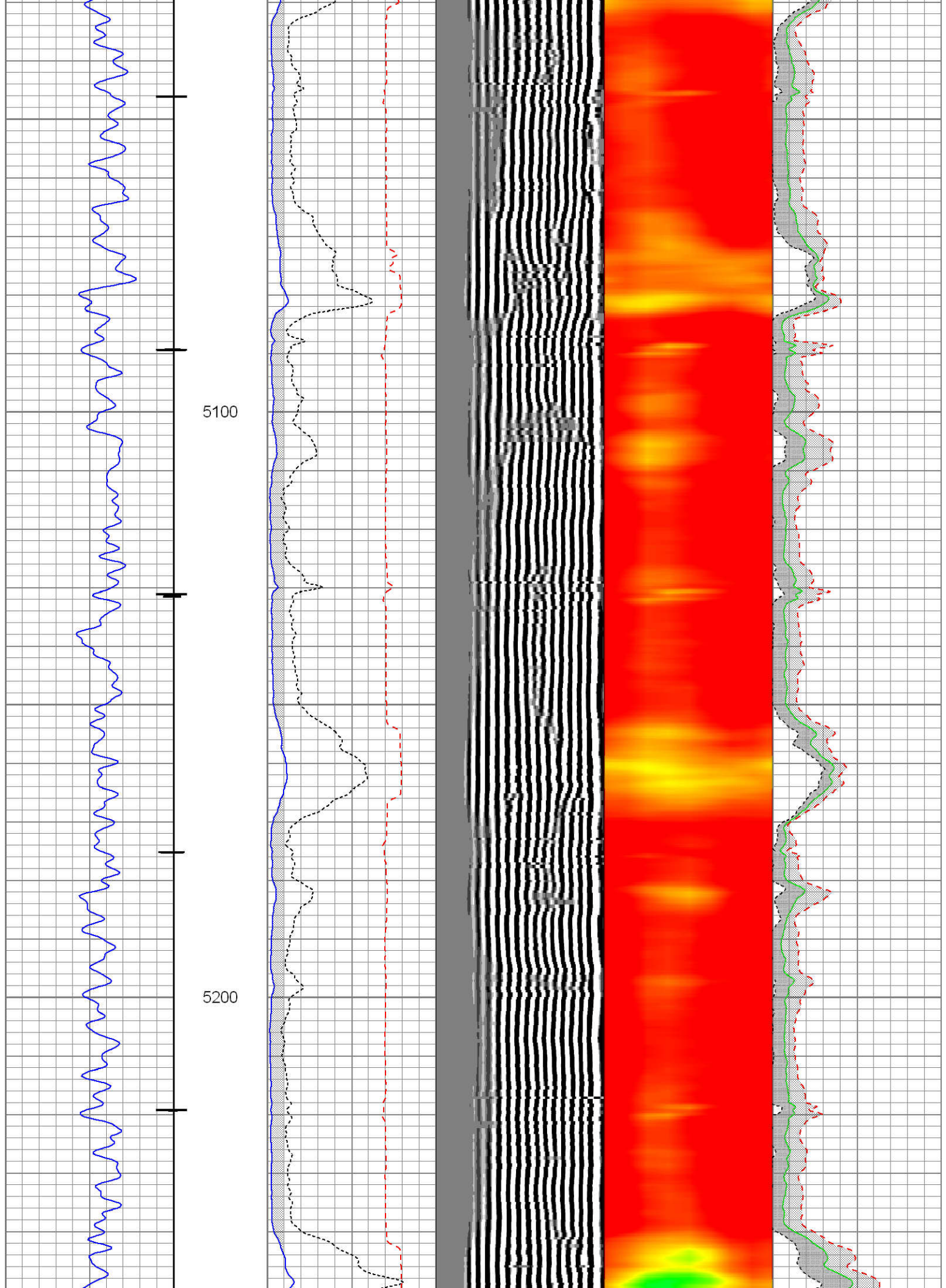


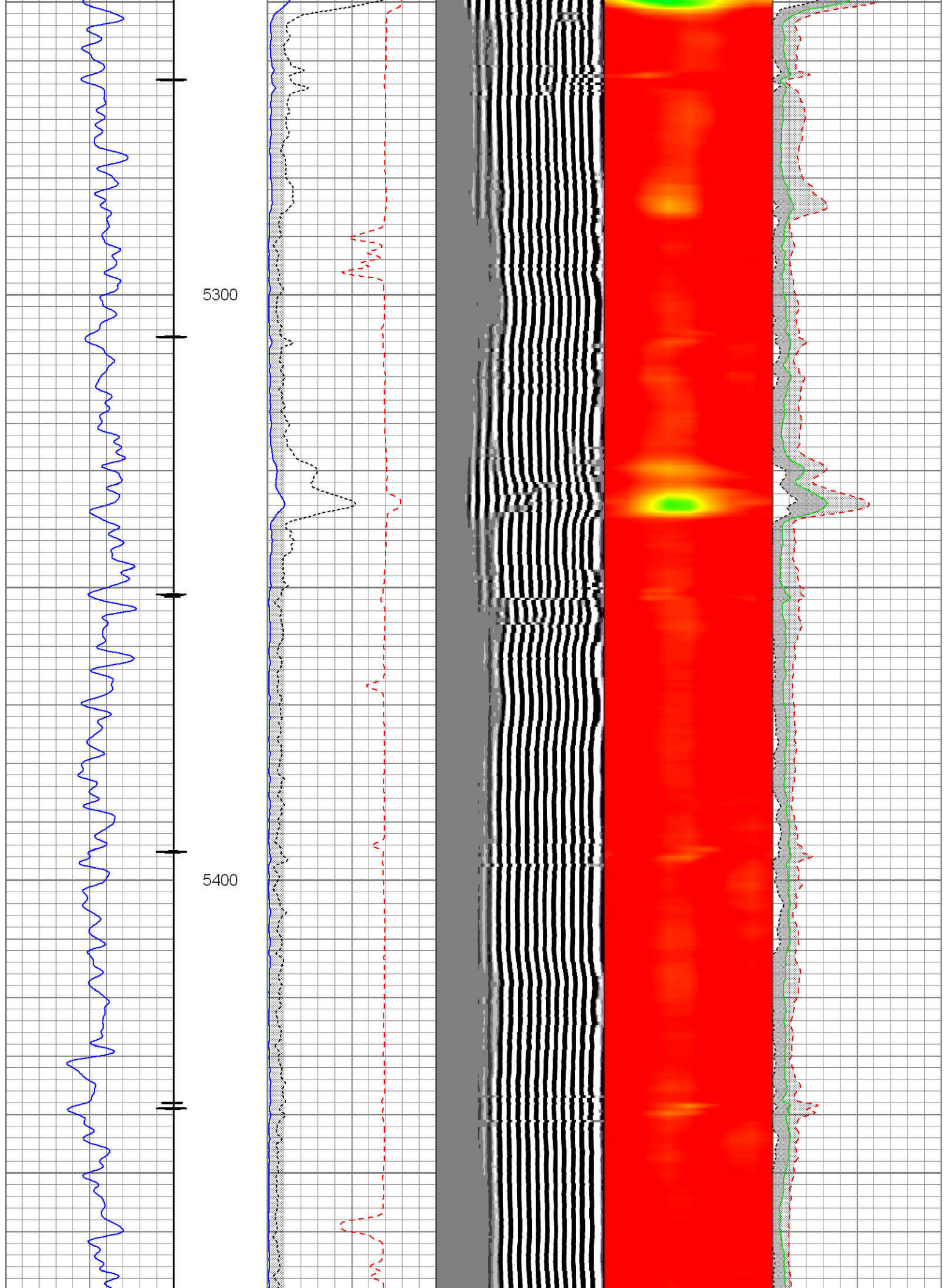


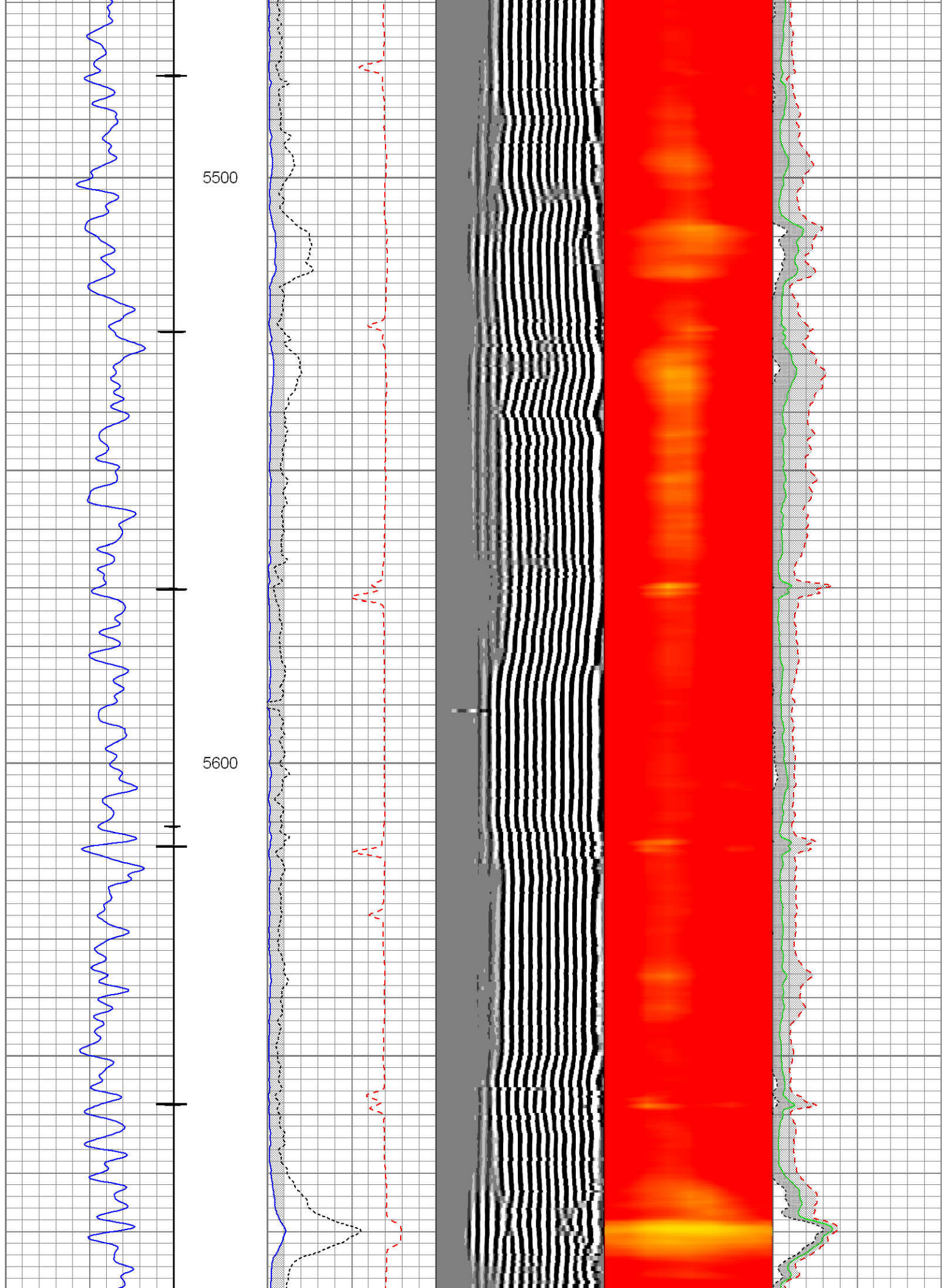


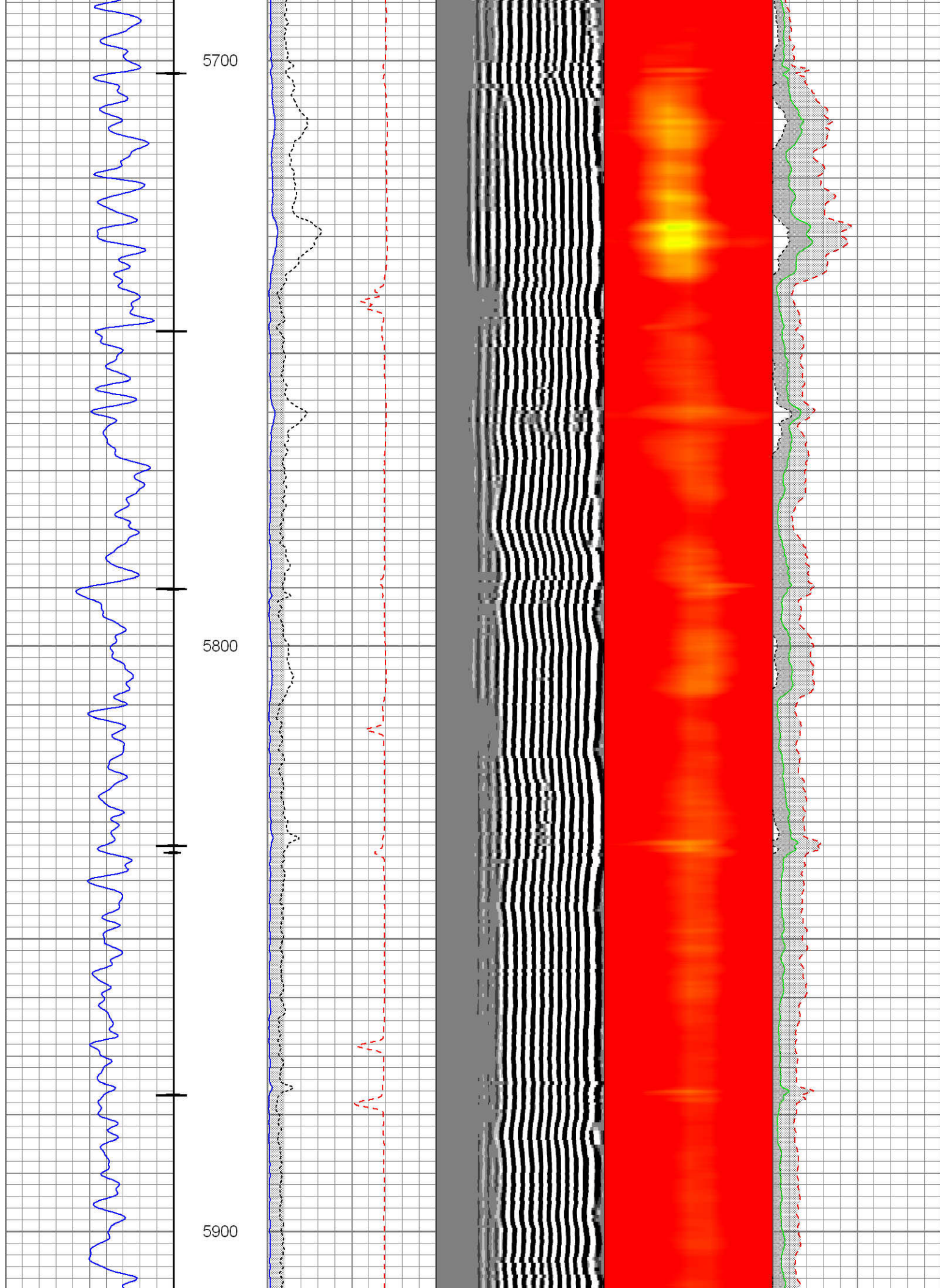


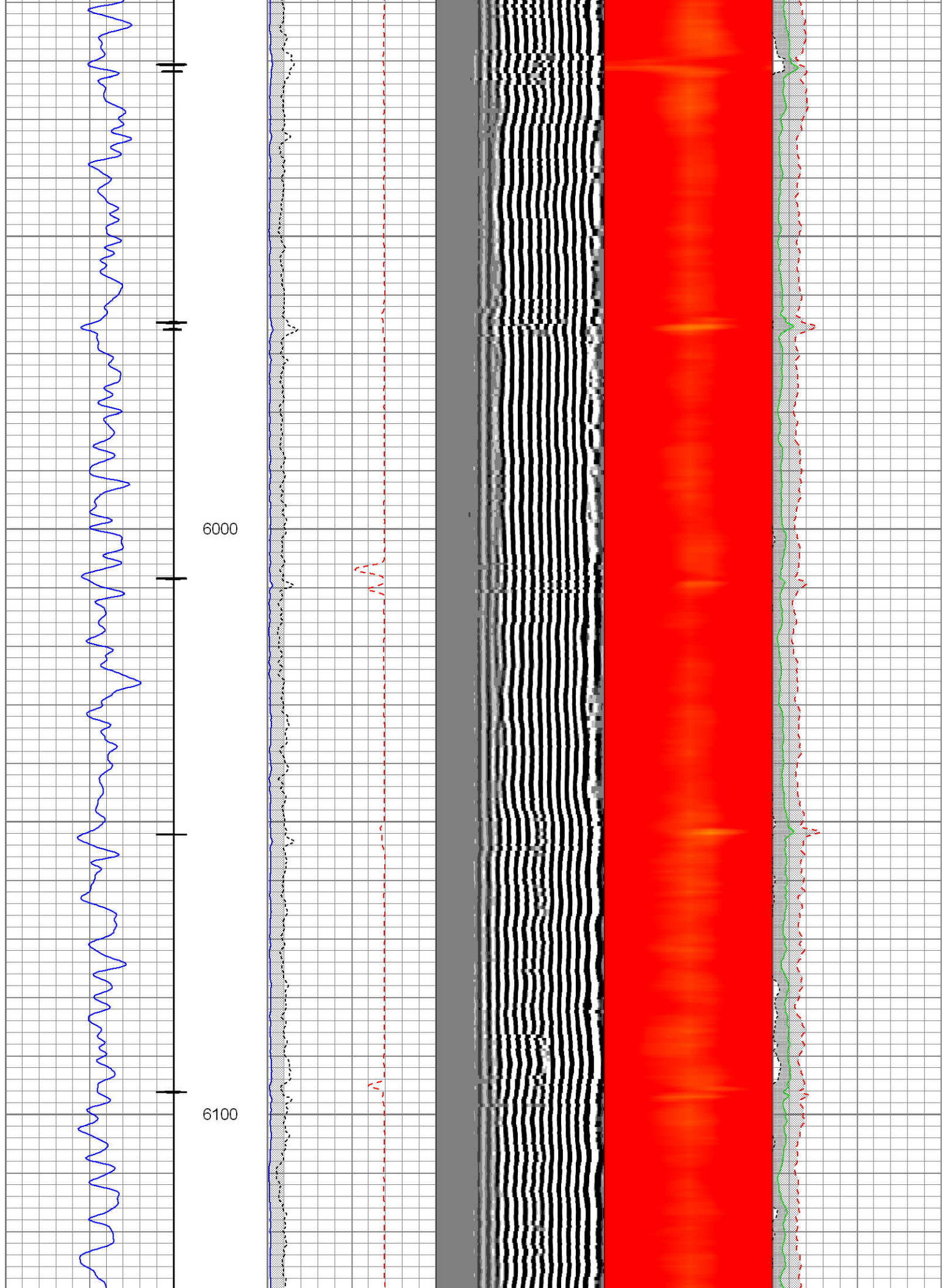


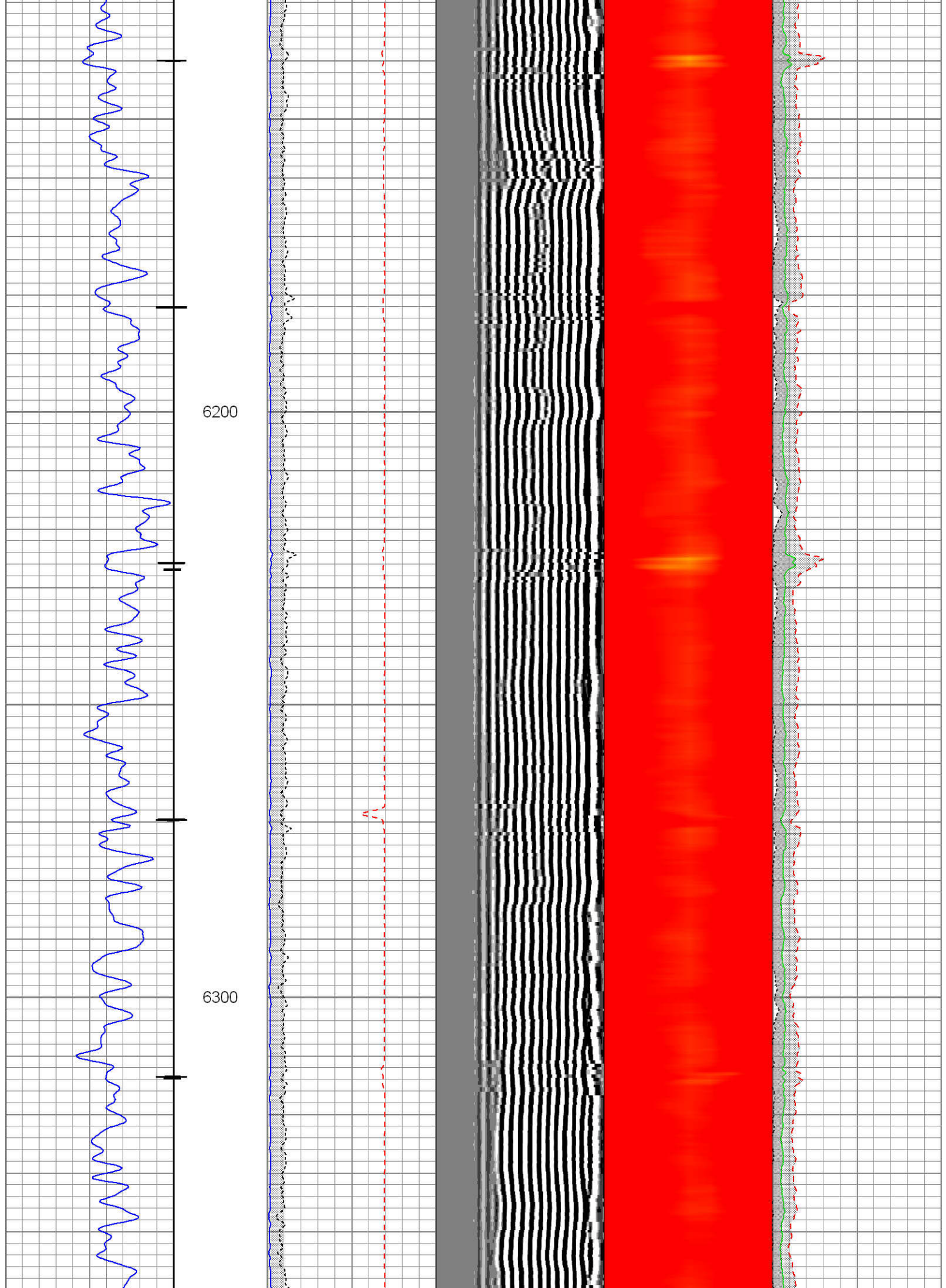


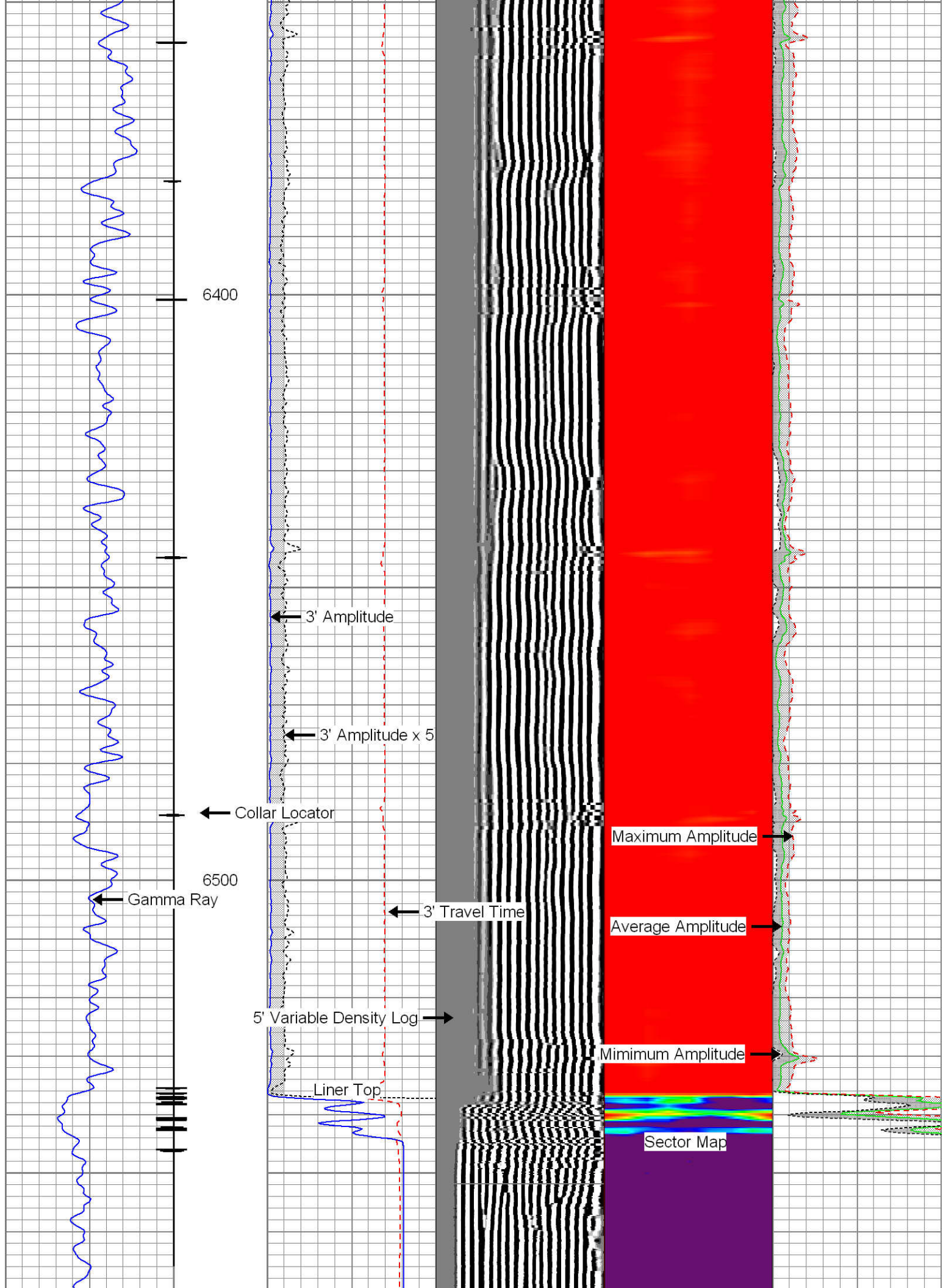


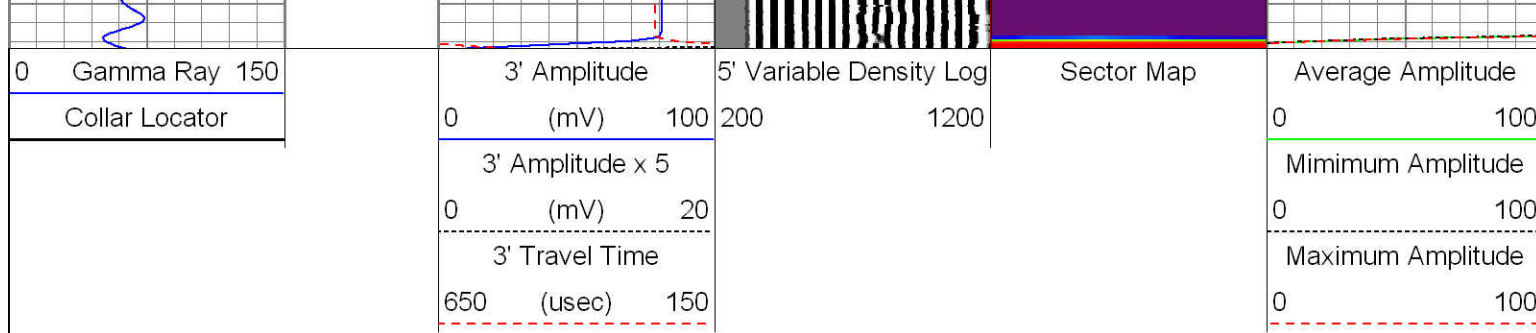








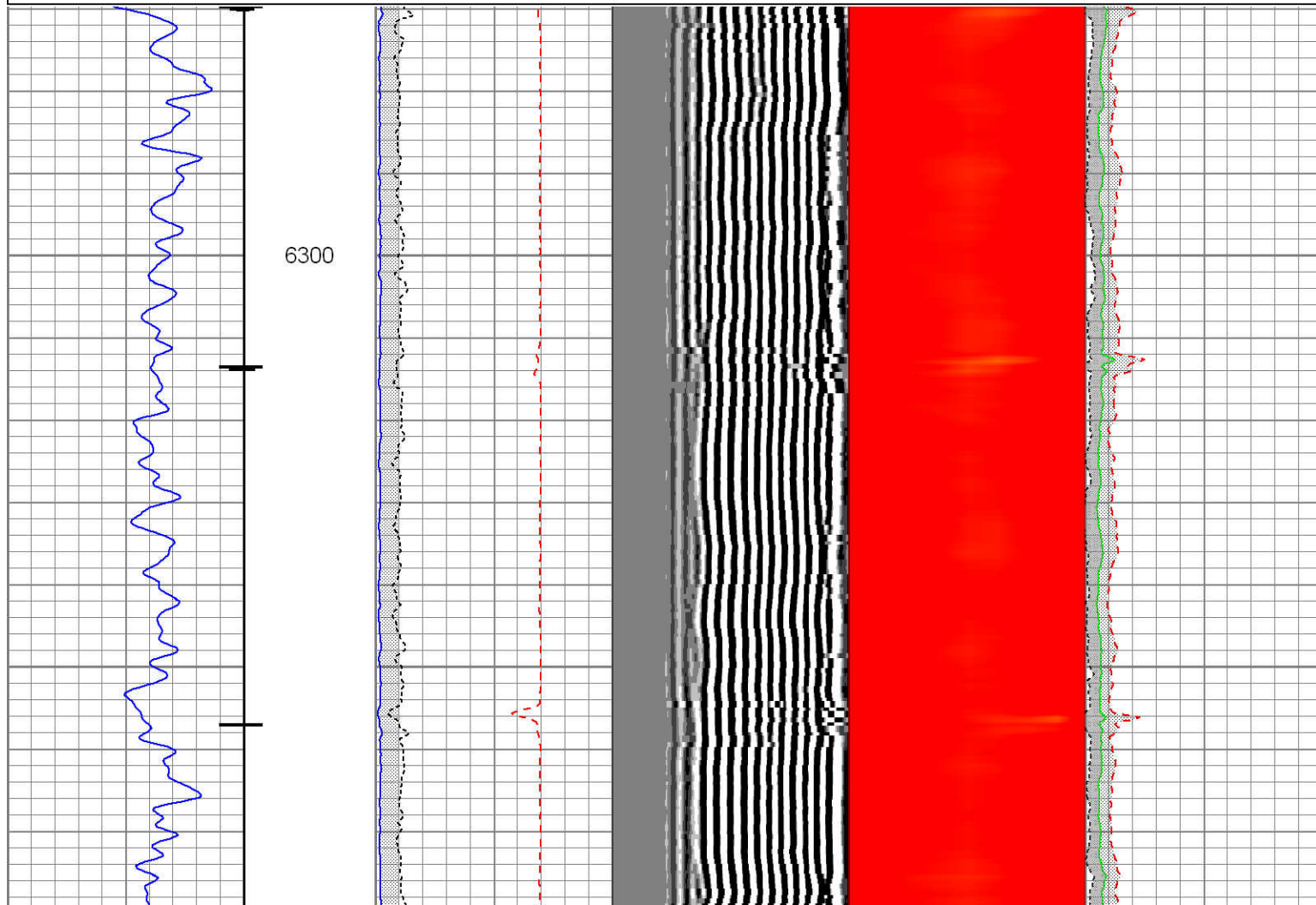
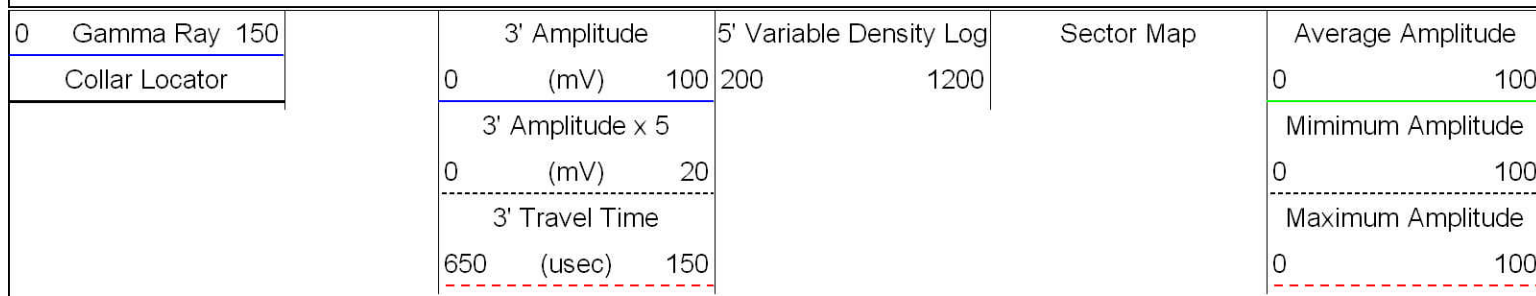


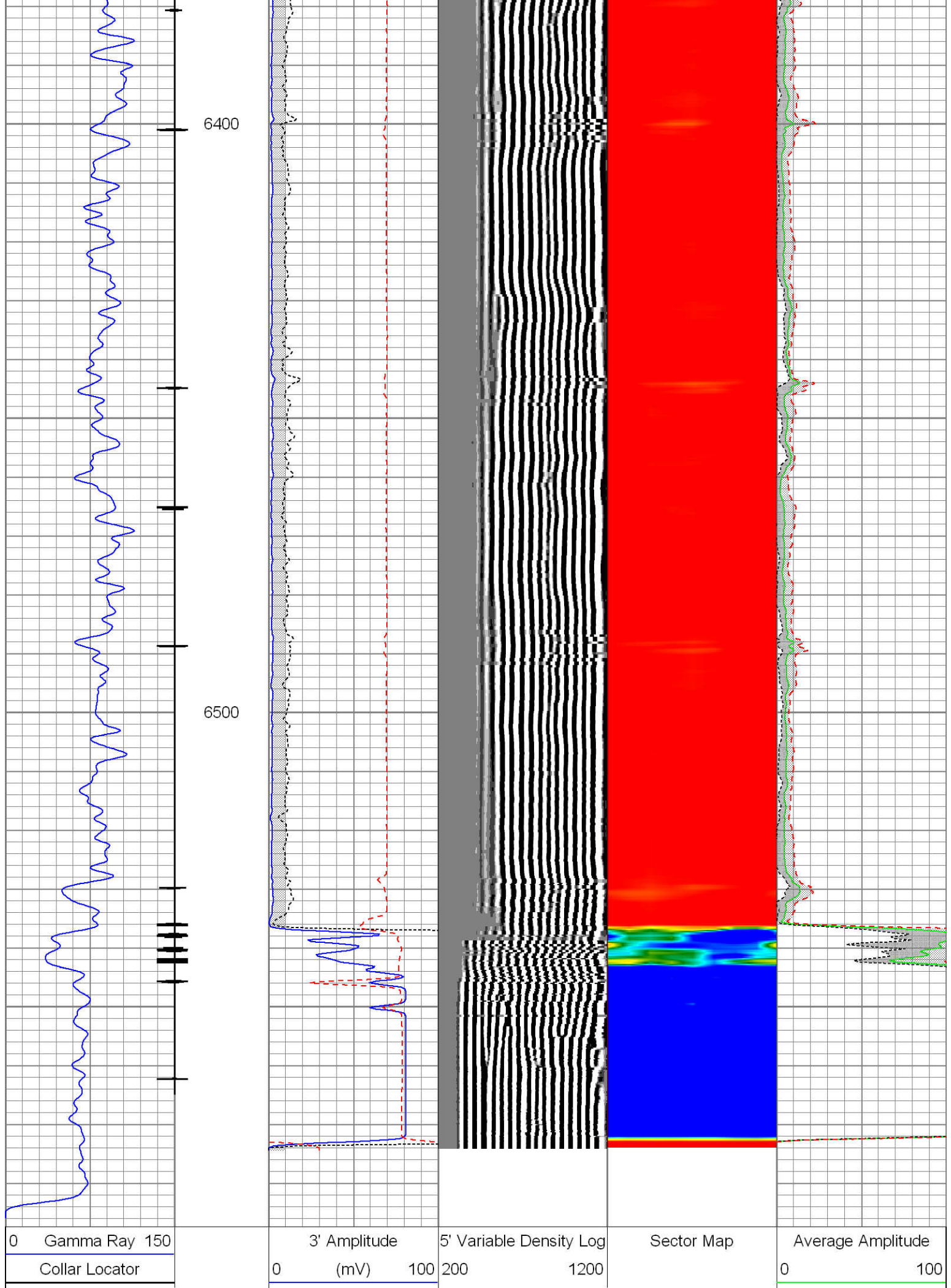


REPEAT PASS

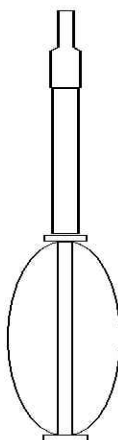
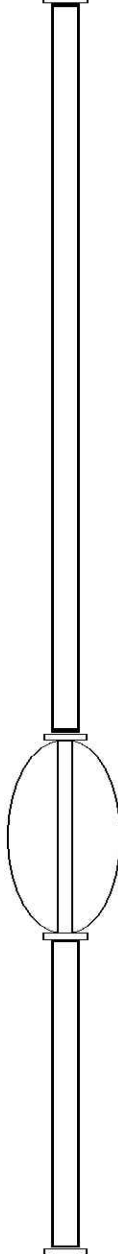
LOGGED WITH 2800 PSI INDUCED AT SURFACE

Database File: kmg_reigle 3n-4hz_cbl.db
 Dataset Pathname: pass8
 Presentation Format: rib
 Dataset Creation: Sat Jan 19 12:10:18 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240





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	22.48		AES1563 Applied Science 1-7/16" cablehead with 1" fishing neck	1.04	1.56	2.00	
			CCL_LOG-TypeC (CCCC) Titan 2-3/4" Logging CCL w/ short body	1.92	2.75	30.00	
			AES_4arm_IL AES bowspring inline electrical centralizer - 32.75"	2.73	2.75	20.00	
TEMP	16.40						
WVFS1	15.02						
WVFS2	15.02						
WVFS3	15.02						
WVFS4	15.02						
WVFS5	15.02						
WVFS6	15.02						
WVFS7	15.02						
WVFS8	15.02						
WVF3FT	14.27						
WVF5FT	13.27						
WVFCAL	9.48						
WVFTEMP	9.48						
WVFSYNC	9.48						
GR	4.01			AES_4arm_IL AES bowspring inline electrical centralizer - 32.75"	2.73	2.75	20.00
				GR-TypeC (CCCC) Titan 2-3/4" Scintillating Gamma Ray	4.02	2.75	46.00
				AES_4arm_IL AES bowspring inline electrical centralizer - 32.75"	2.73	2.75	20.00

Dataset:	kmg_reigle 3n-4hz_cbl.db: field/well/run1/pass9
Total Length:	24.73 ft
Total Weight:	261.00 lb
O.D.	2.75 in



Company	KERR-McGEE OIL & GAS ONSHORE, L
Well	REIGLE 3N-4HZ
Field	WATTENBERG
County	WELD
State	COLORADO