



CEMENT BOND LOG  
GAMMA RAY  
COLLAR CORRELATION LOG

Company		WHITING OIL & GAS		Country USA			
Well		WILD HORSE 02-0214H					
Field		WILDCAT					
County		WELD					
State		COLORADO					
Location:		AP1 # : 05-123-35500-00		Other Services			
SEC 2 TWP 9N RGE 59W		360' FNL & 740' FWL		NONE			
Permanent Datum		GROUND LEVEL		Elevation			
Log Measured From		KELLY BUSHING		K.B. 5020			
Drilling Measured From		KELLY BUSHING		D.F. 5019			
				G.L. 5003			
Date		17-SEP-2012					
Run Number		ONE					
Depth Driller		---					
Depth Logger		5350					
Bottom Logged Interval		5340					
Top Log Interval		30					
Open Hole Size		9.625"					
Type Fluid		WATER					
Density / Viscosity		8.34 LB/GAL					
Max. Recorded Temp.		NOT RECORDED					
Estimated Cement Top		102					
Time Well Ready		N/A					
Time Logger on Bottom		N/A					
Equipment Number		HD0119					
Location		FORT LUPTON, CO.					
Recorded By		SAM HOPPER					
Witnessed By		KEVIN LOYD					
Borehole Record		Tubing Record					
Run Number		Bit	From	To	Weight	From	To
Casing Record		Size		Wgt/Ft		Top	Bottom
Surface String							
Prot. String							
Production String		7"		29#		0	TD
Liner							


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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

CEMENT BOND LOG IS FIRST RUN IN HOLE.  
WIRELINE ZERO AT KELLY BUSHING.  
RUN CBL FROM JUST ABOVE RETRIEVABLE PLUG TO SURFACE.  
CBL RAN UNDER 2200 PSI SURFACE INDUCED PRESSURE.

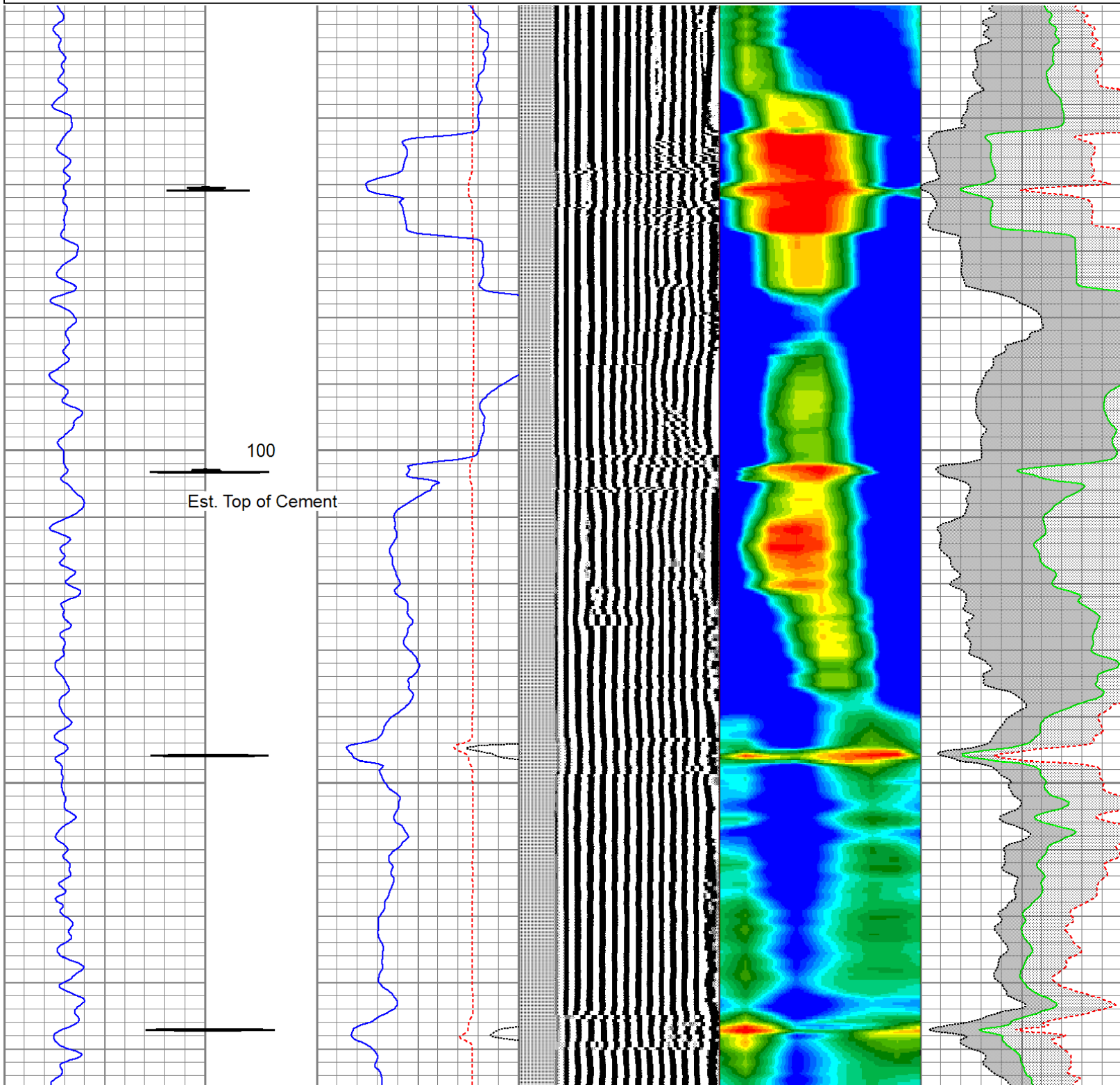
THANK YOU FOR CHOOSING PURE ENERGY!!

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.44	10.00

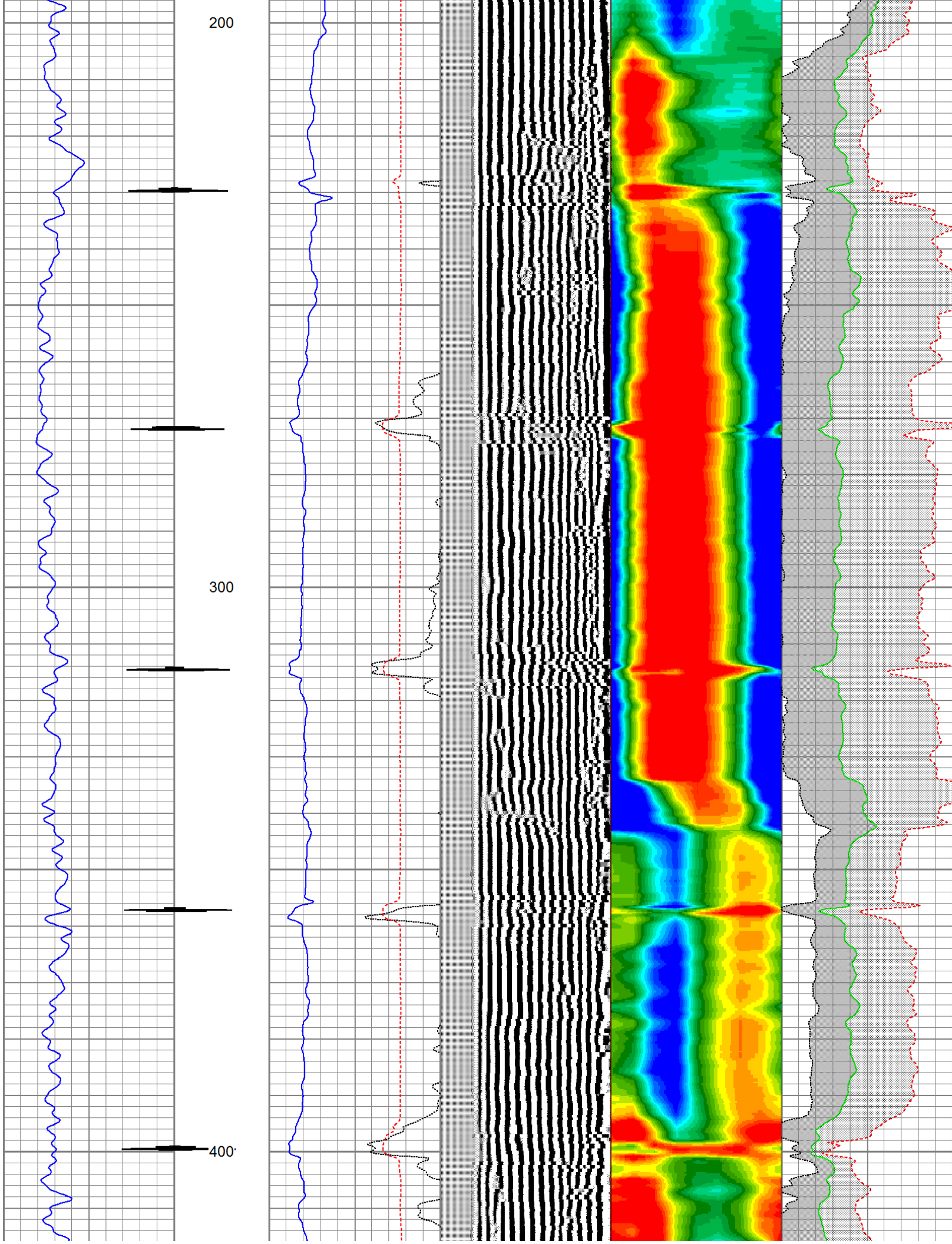
CCL	22.21		CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.92	2.75	20.00
			SDSCENT Centralizer for testing	2.73	2.75	20.00
TEMP	16.38					
WVFS1	15.00					
WVFS2	15.00					
WVFS3	15.00		275CTEKSECWTWSLCANS-275RIB (1234)	9.31	2.75	102.00
WVFS4	15.00		2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB			
WVFS5	15.00		SIGNALS 400 DEG "F" @20K PSI With Sliding			
WVFS6	15.00		Cans For Pressure Ballance			
WVFS7	15.00					
WVFS8	15.00					
WVF3FT	14.25					
WVF5FT	13.25					
WVFCAL	9.46					
WVFTEMP	9.46					
WVFSYNC	9.46		SDSCENT Centralizer for testing	2.73	2.75	20.00
			GR-Tek-Co (Tek-Co2) 2 3/4 400deg Scint gamma	4.00	2.75	40.00
GR	3.77					
			SDSCENT Centralizer for testing	2.73	2.75	20.00
Dataset: whiting_wild horse_02-0214h.db: 17sep12/well/cbl/pass5 Total Length: 24.42 ft Total Weight: 232.00 lb O.D. 2.75 in						

Database File: whiting\_wild horse\_02-0214h.db  
 Dataset Pathname: 17sep12/well/cbl/pass5  
 Presentation Format: rib usa  
 Dataset Creation: Mon Sep 17 12:13:02 2012 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

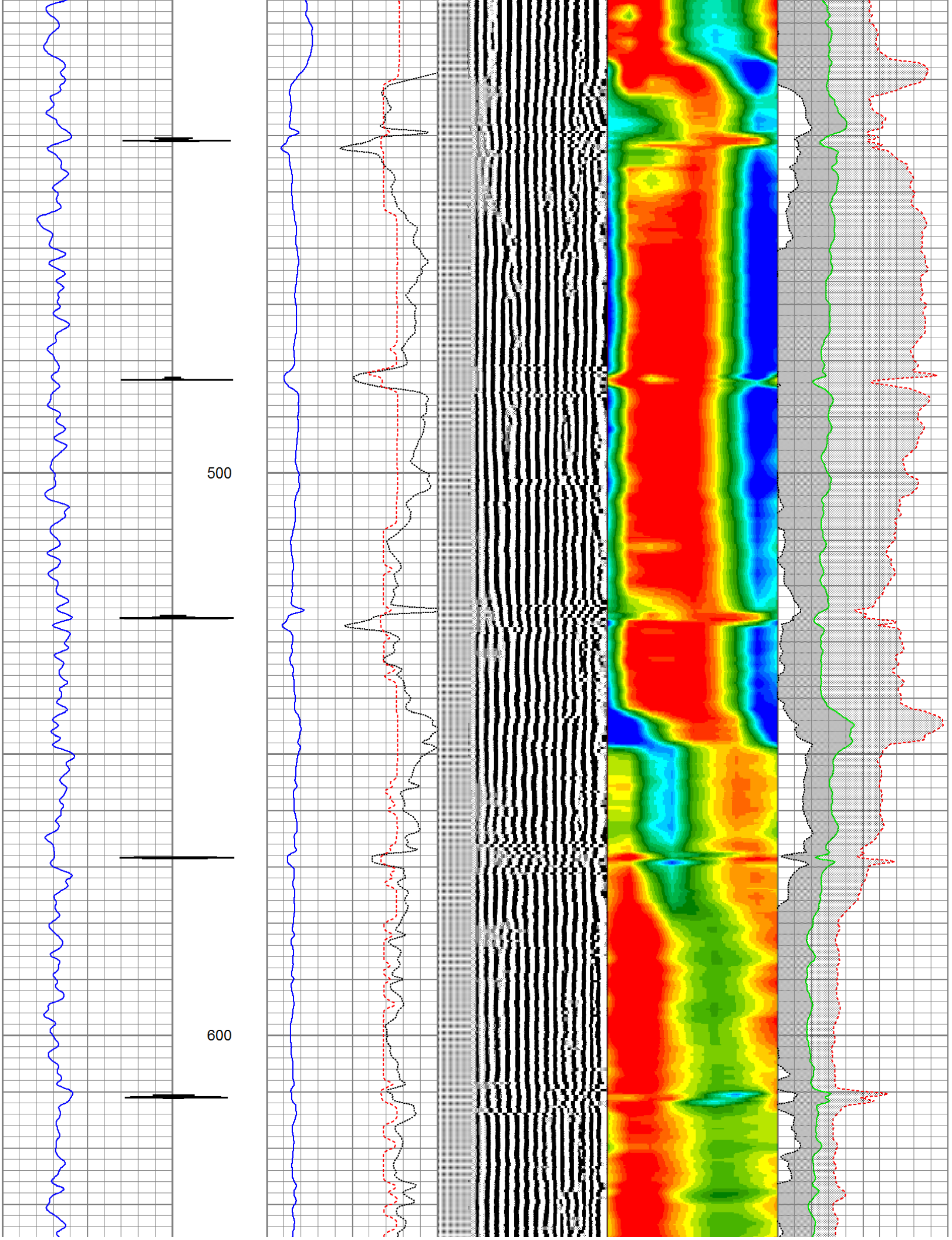
0	Gamma Ray	150	0	3' Amplitude (mV)	100	5' Variable Density Log	Sector Map	Average Amplitude	
	Collar Locator			3' Amplitude x 5		200		0	100
			0	(mV)	20			Minimum Amplitude	
				3' Travel Time				0	100
			650	(usec)	150			Maximum Amplitude	
								0	100

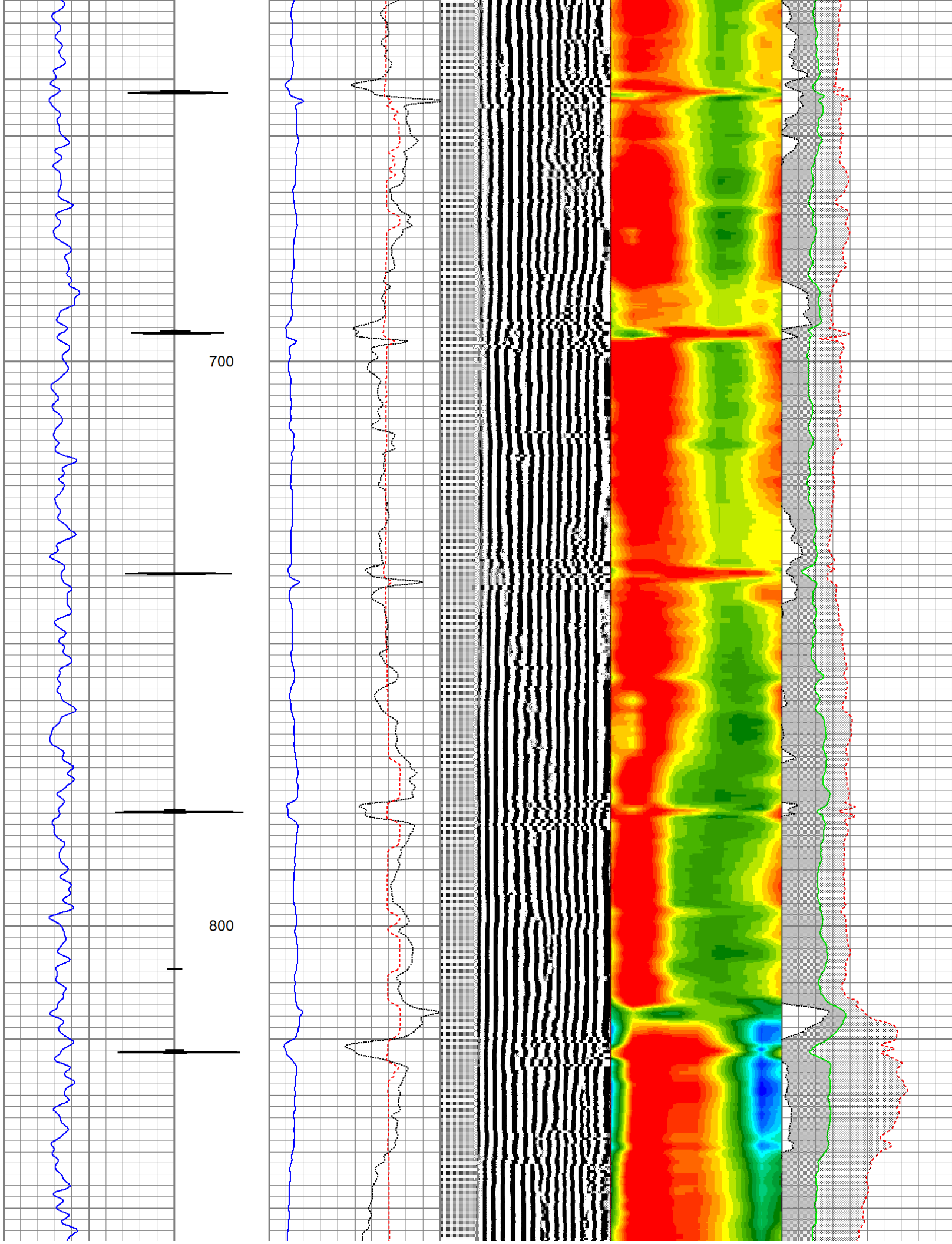




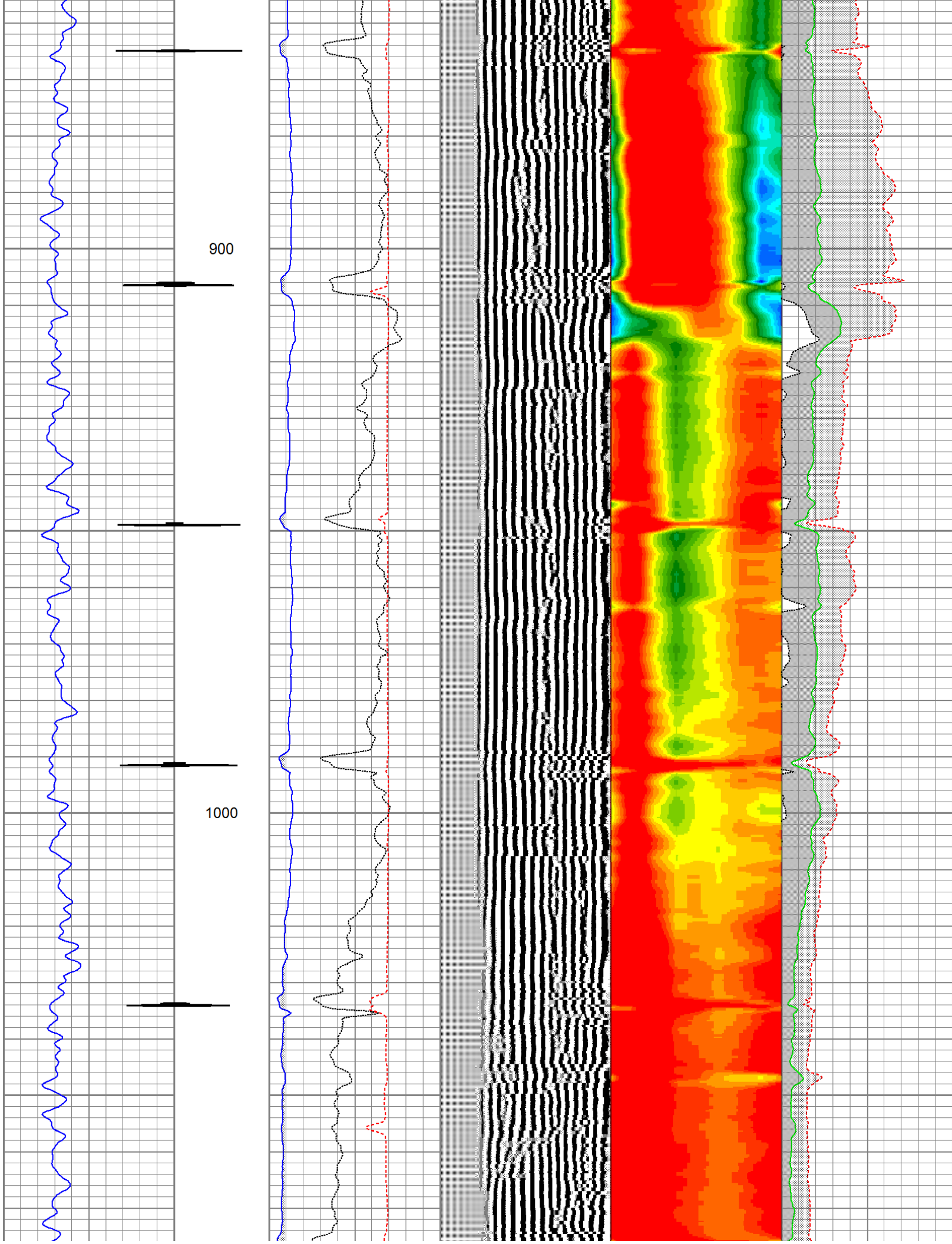




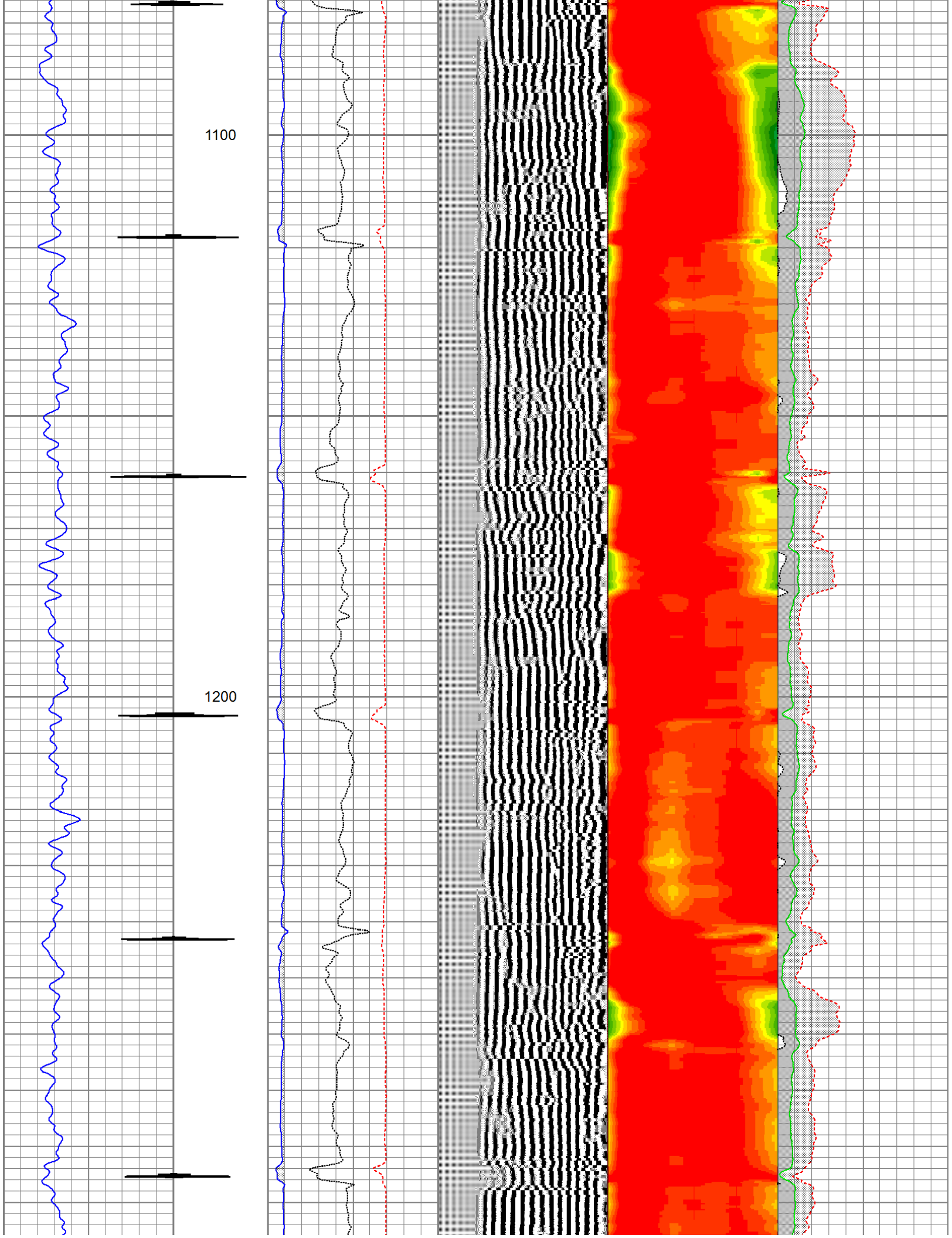


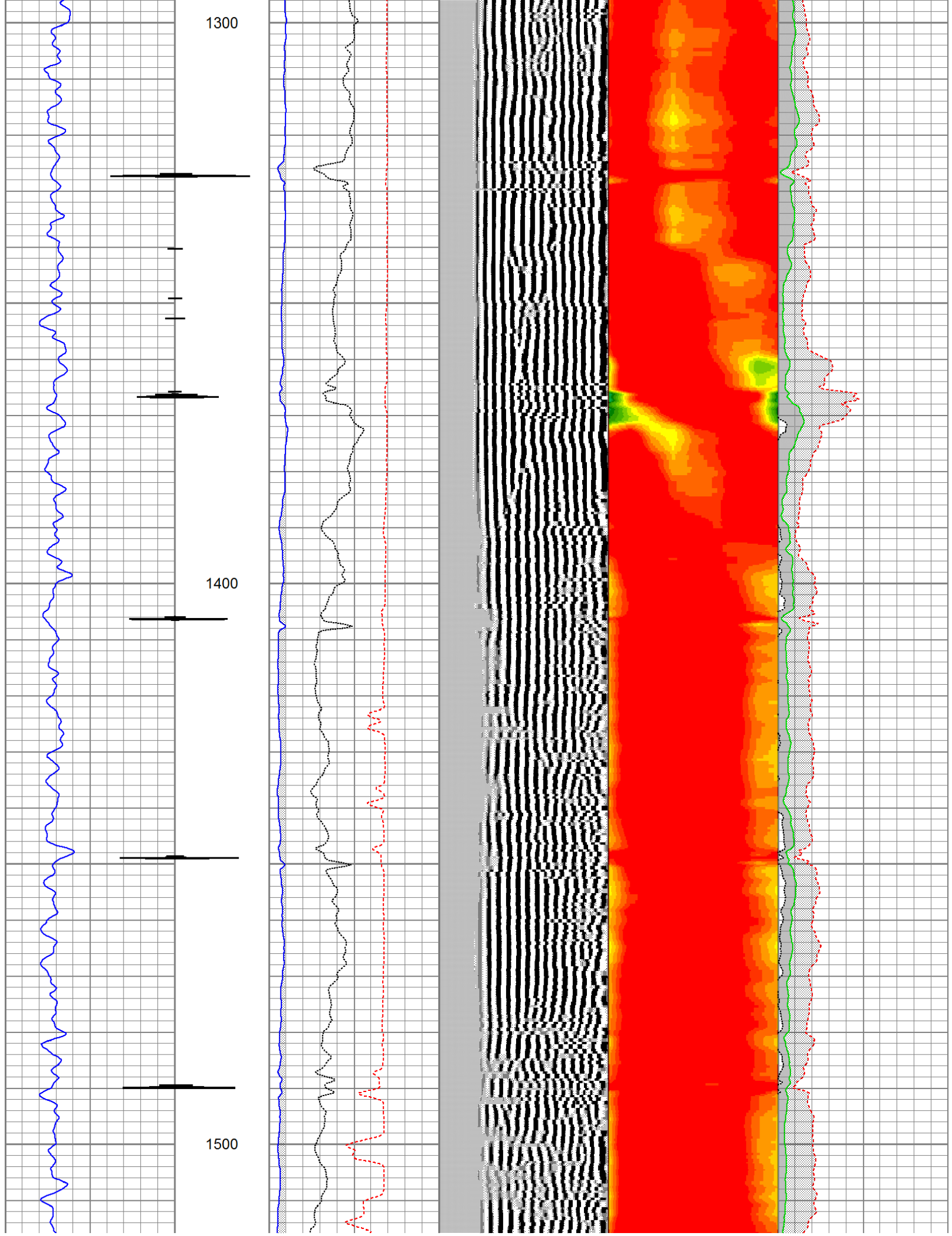




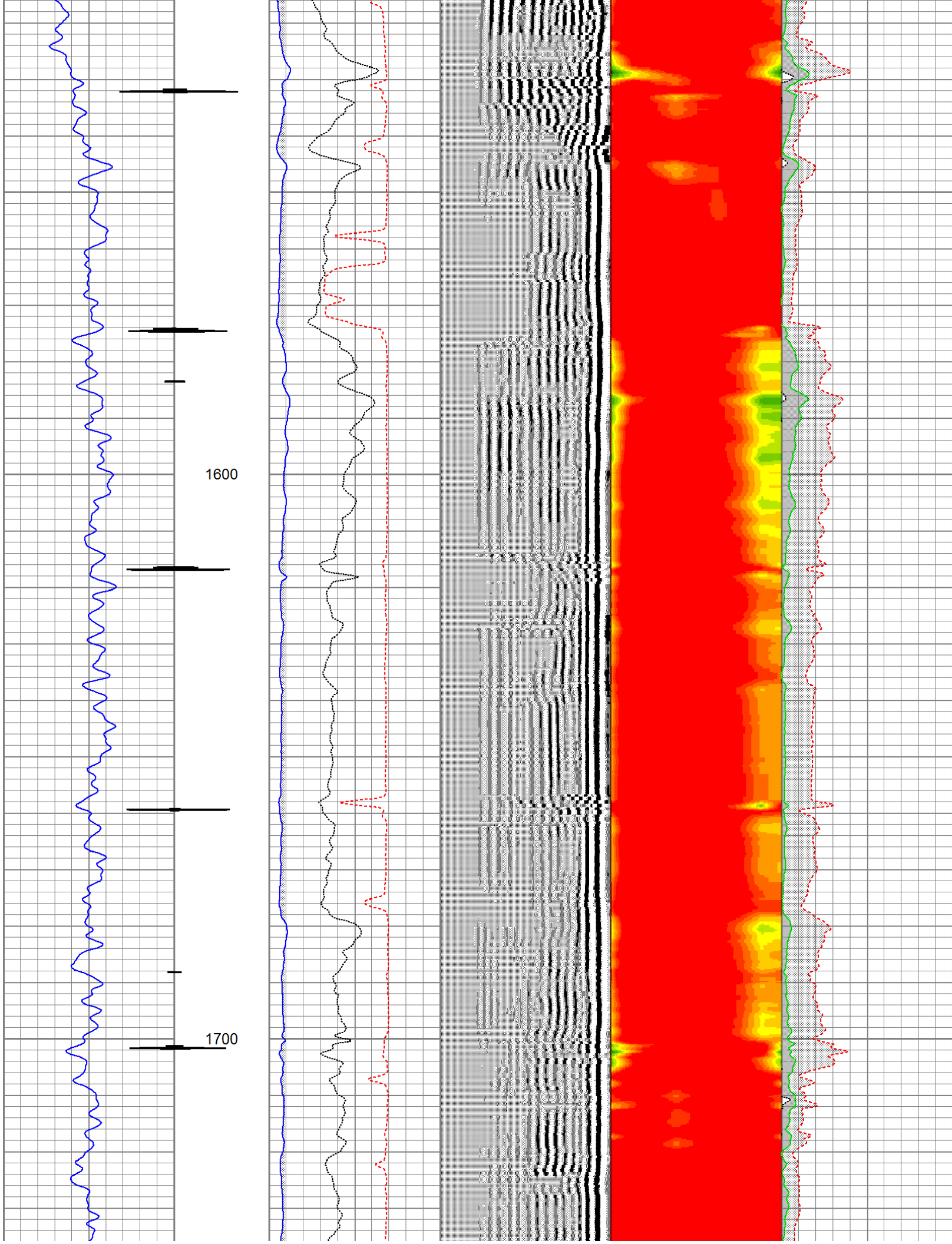




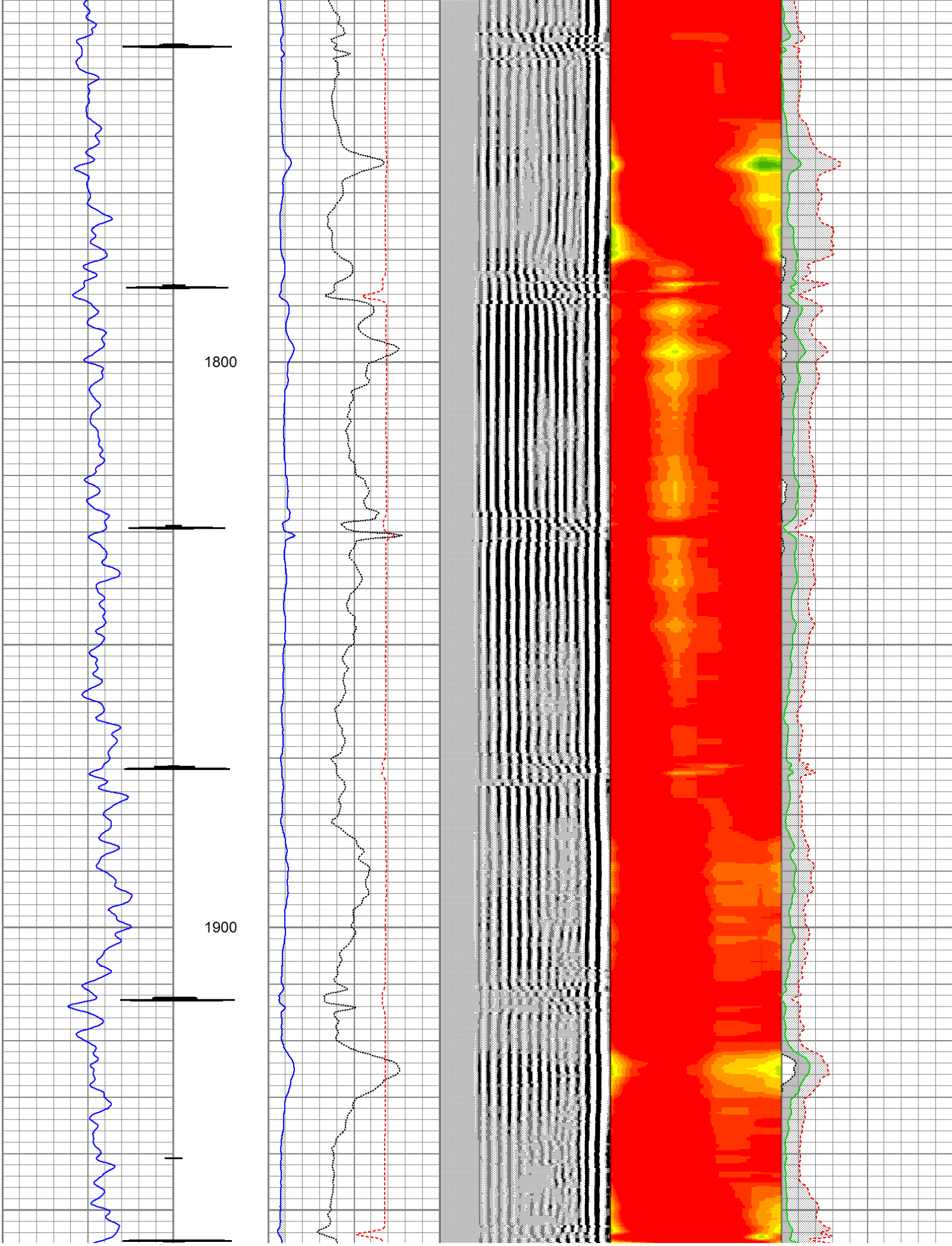


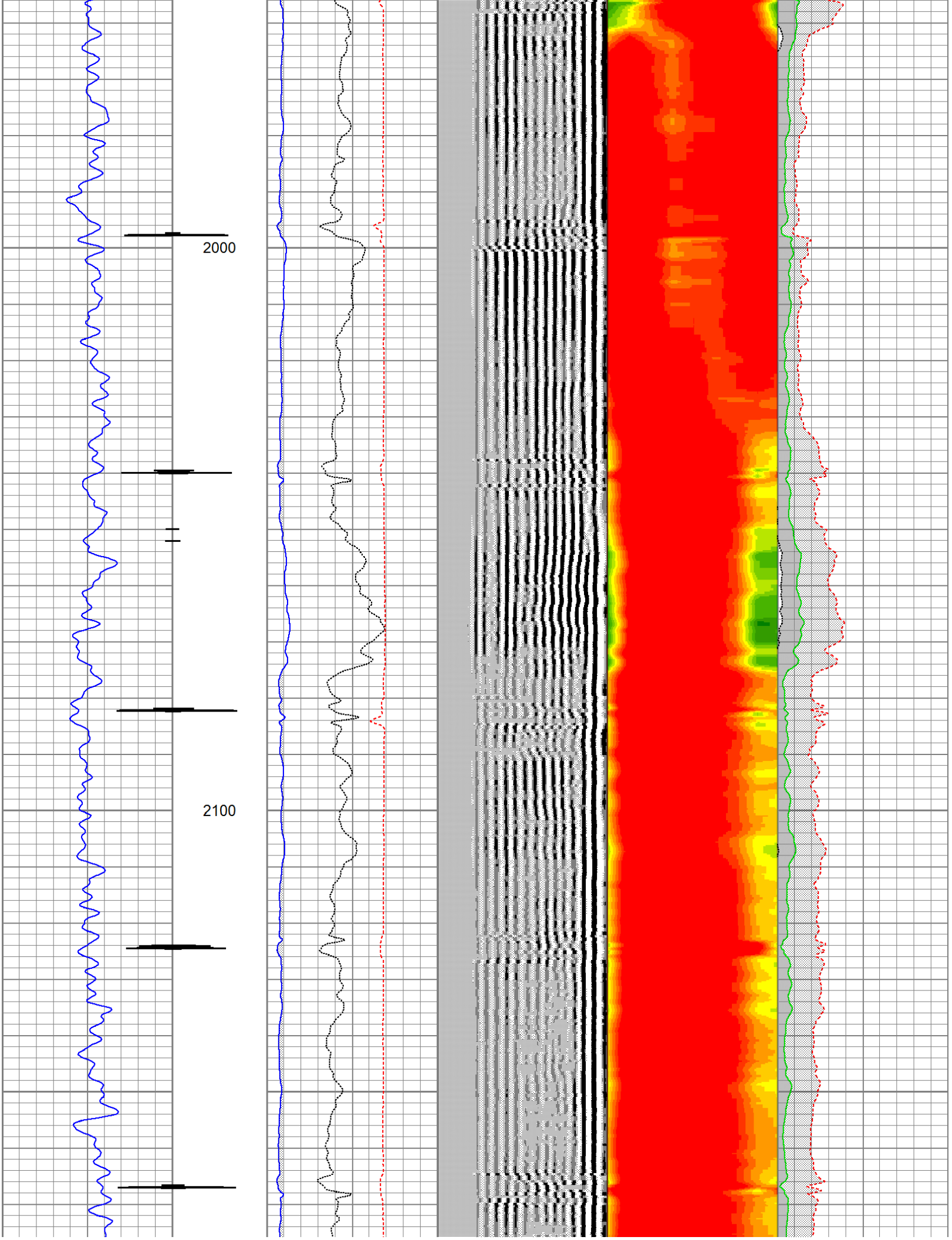




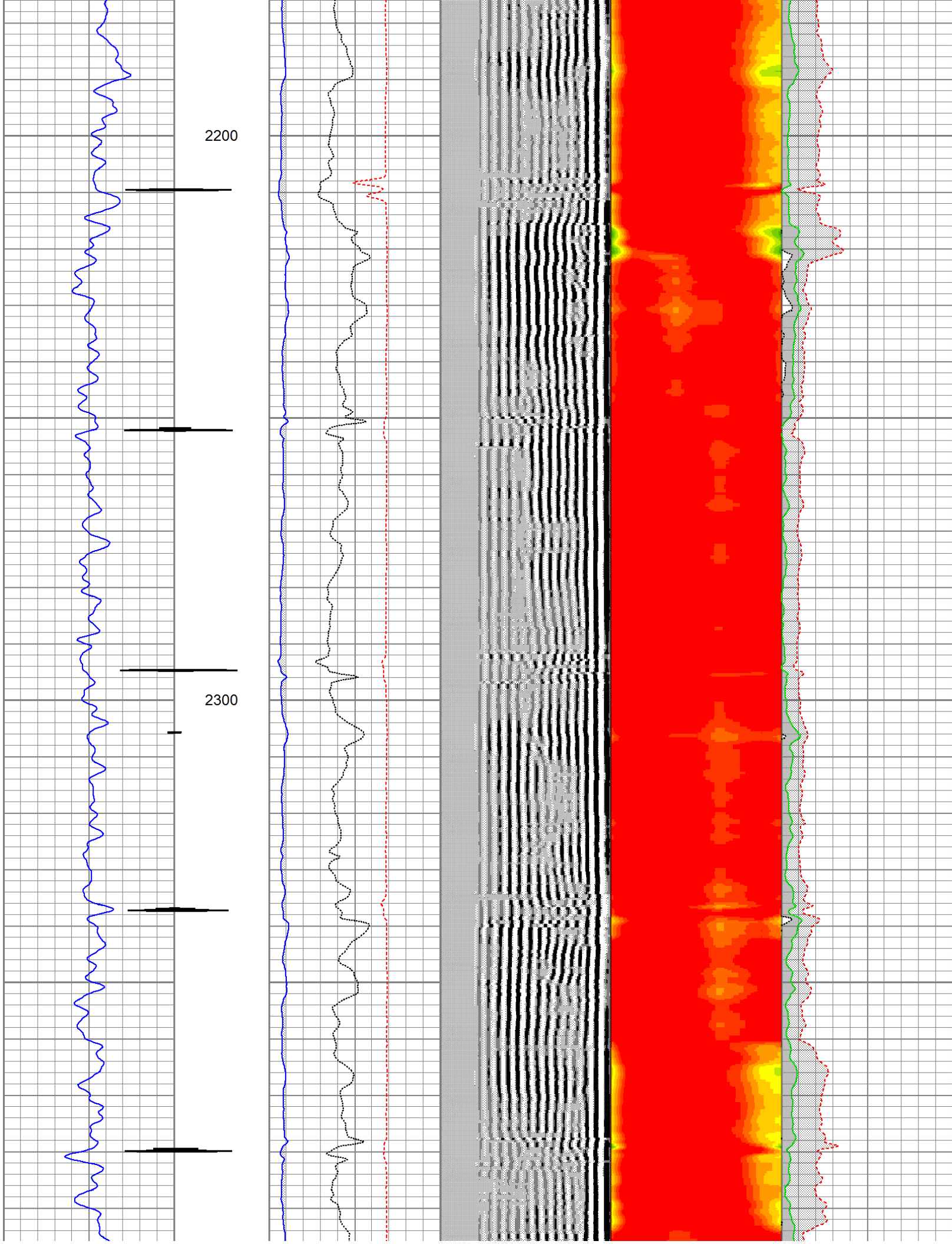




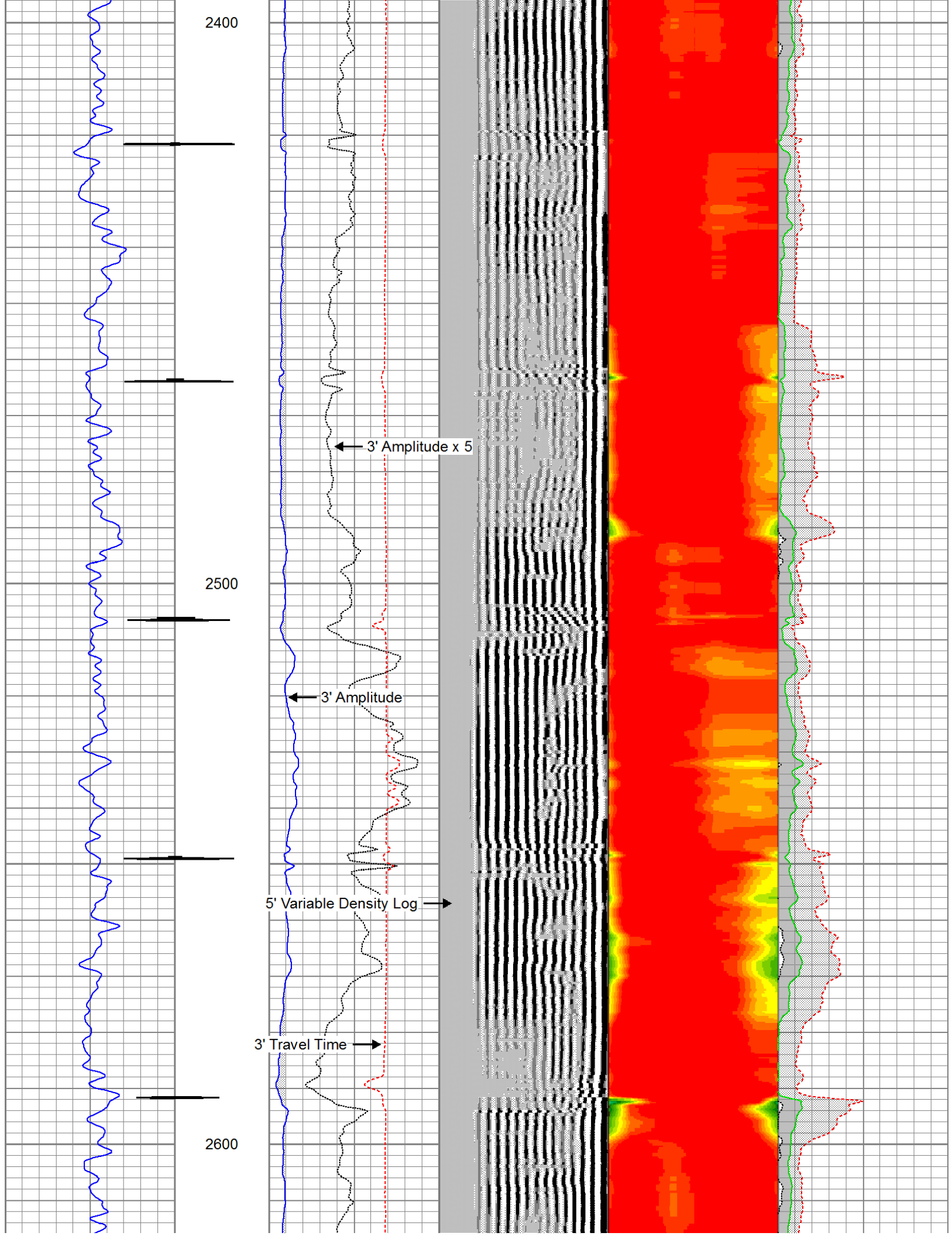


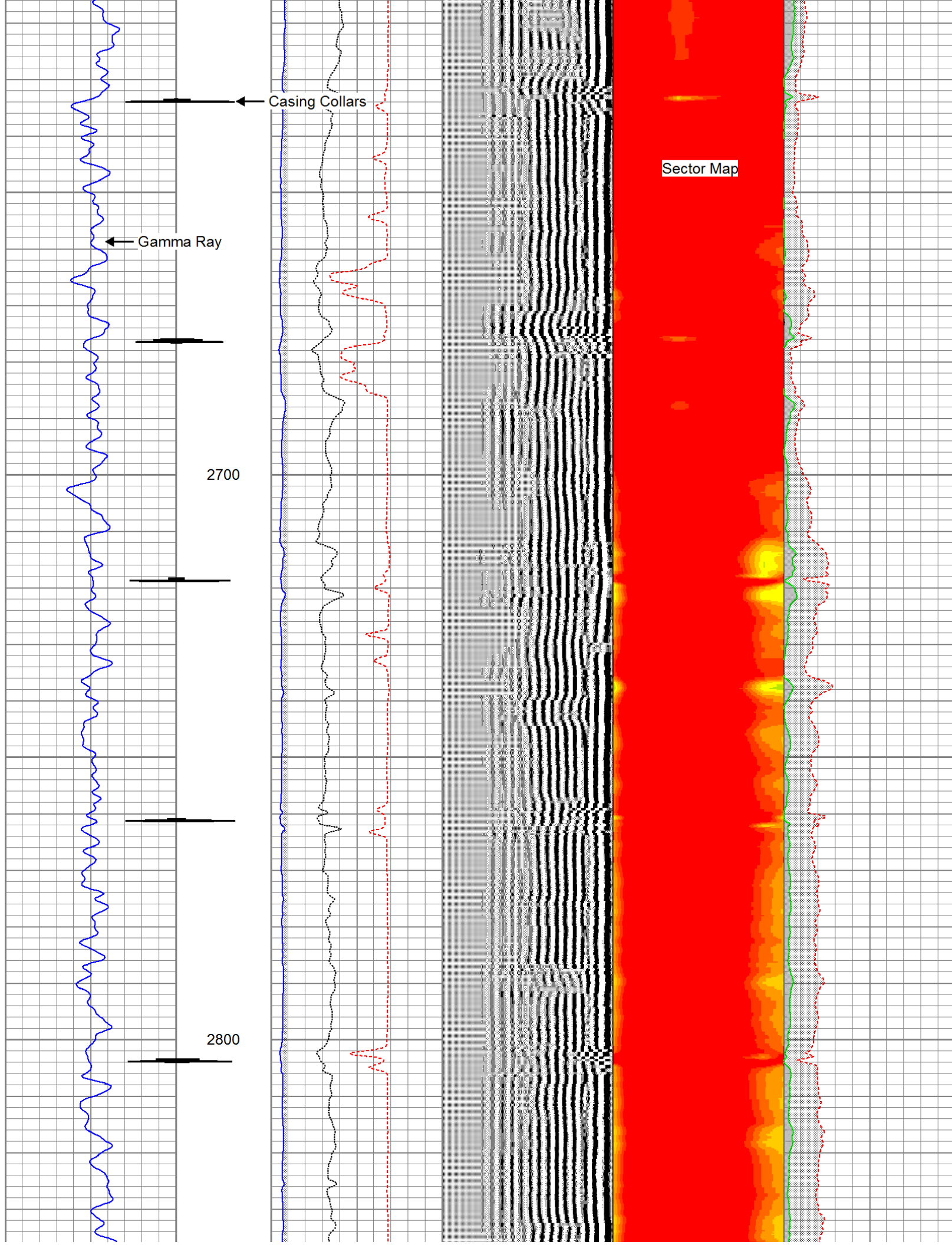




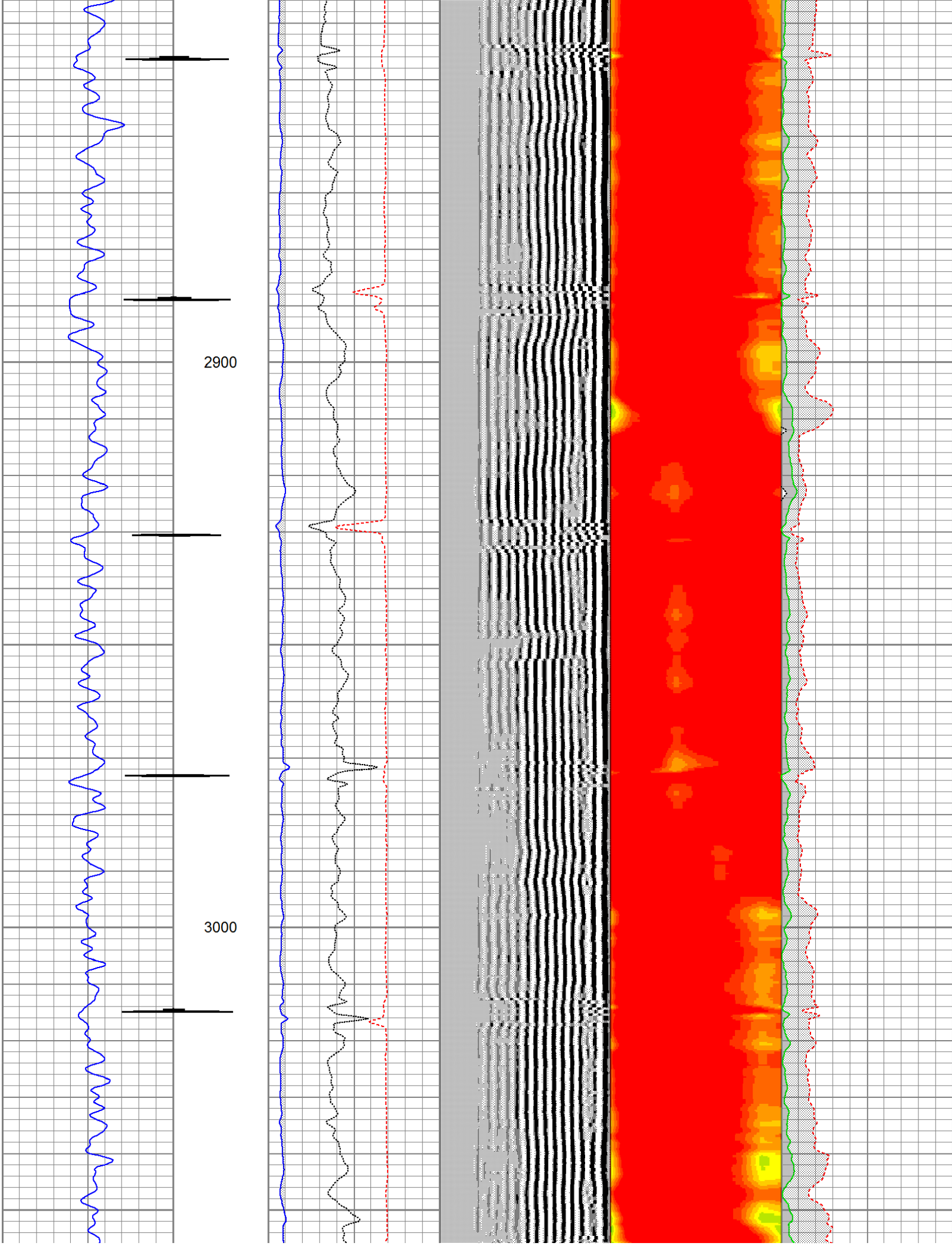




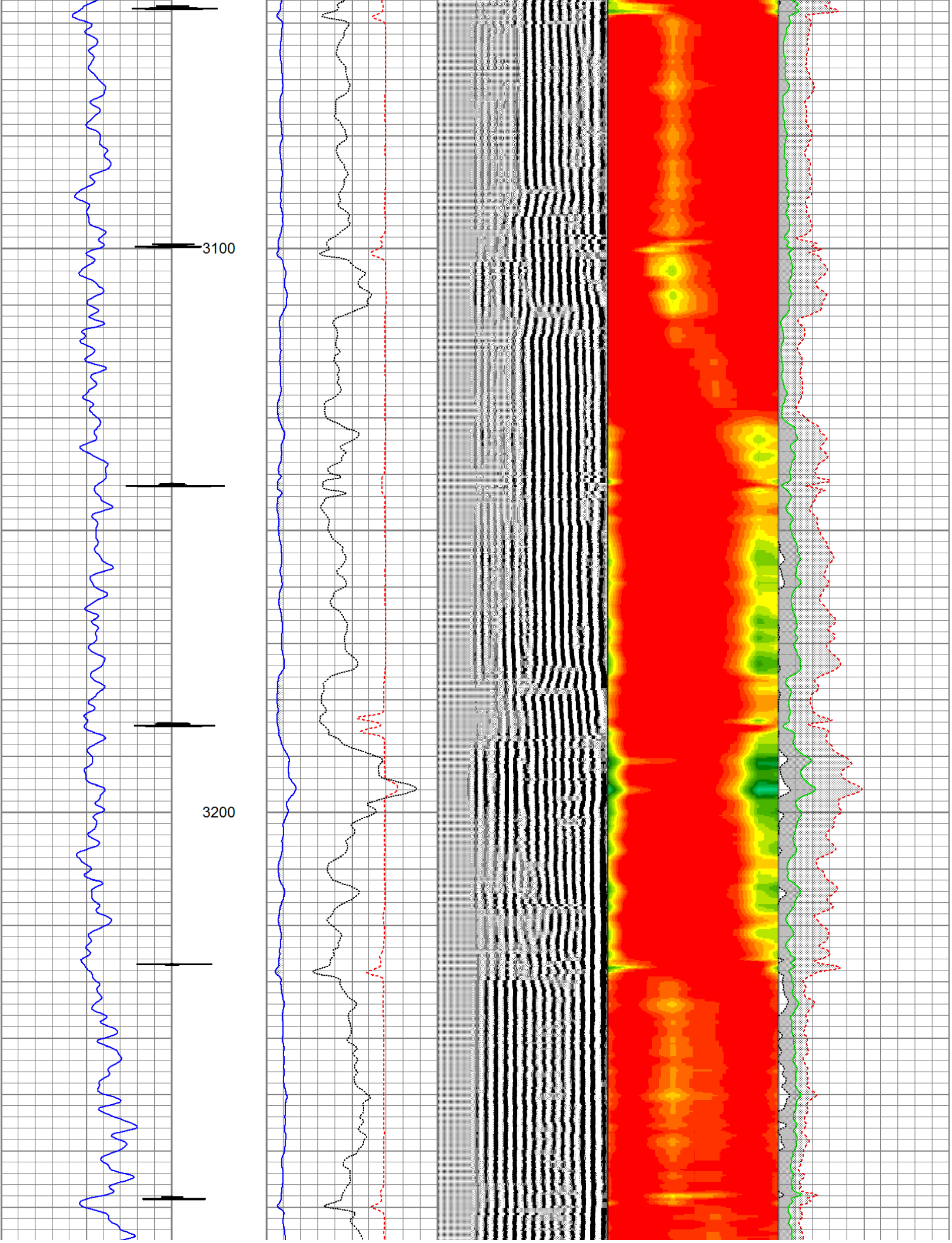


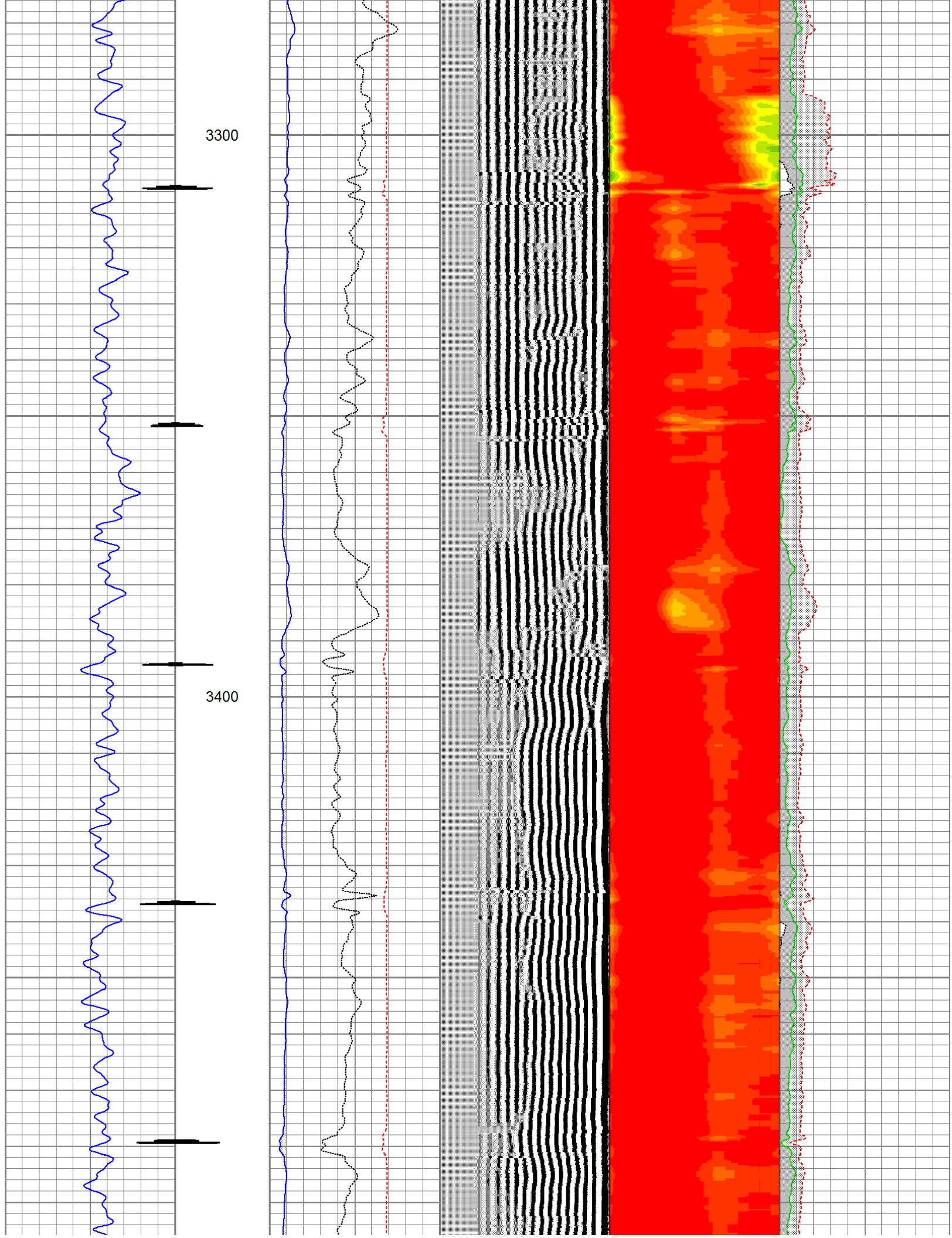




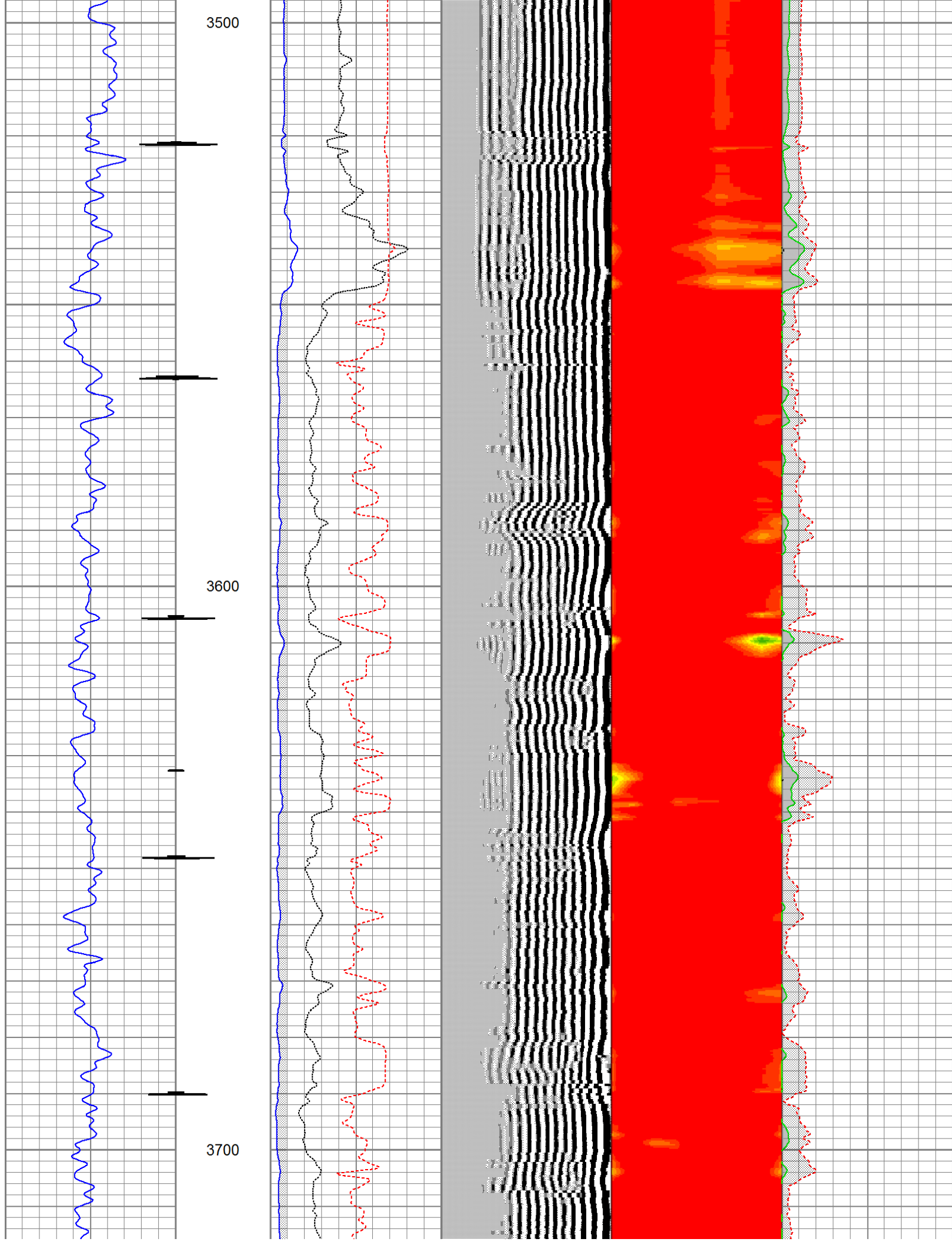


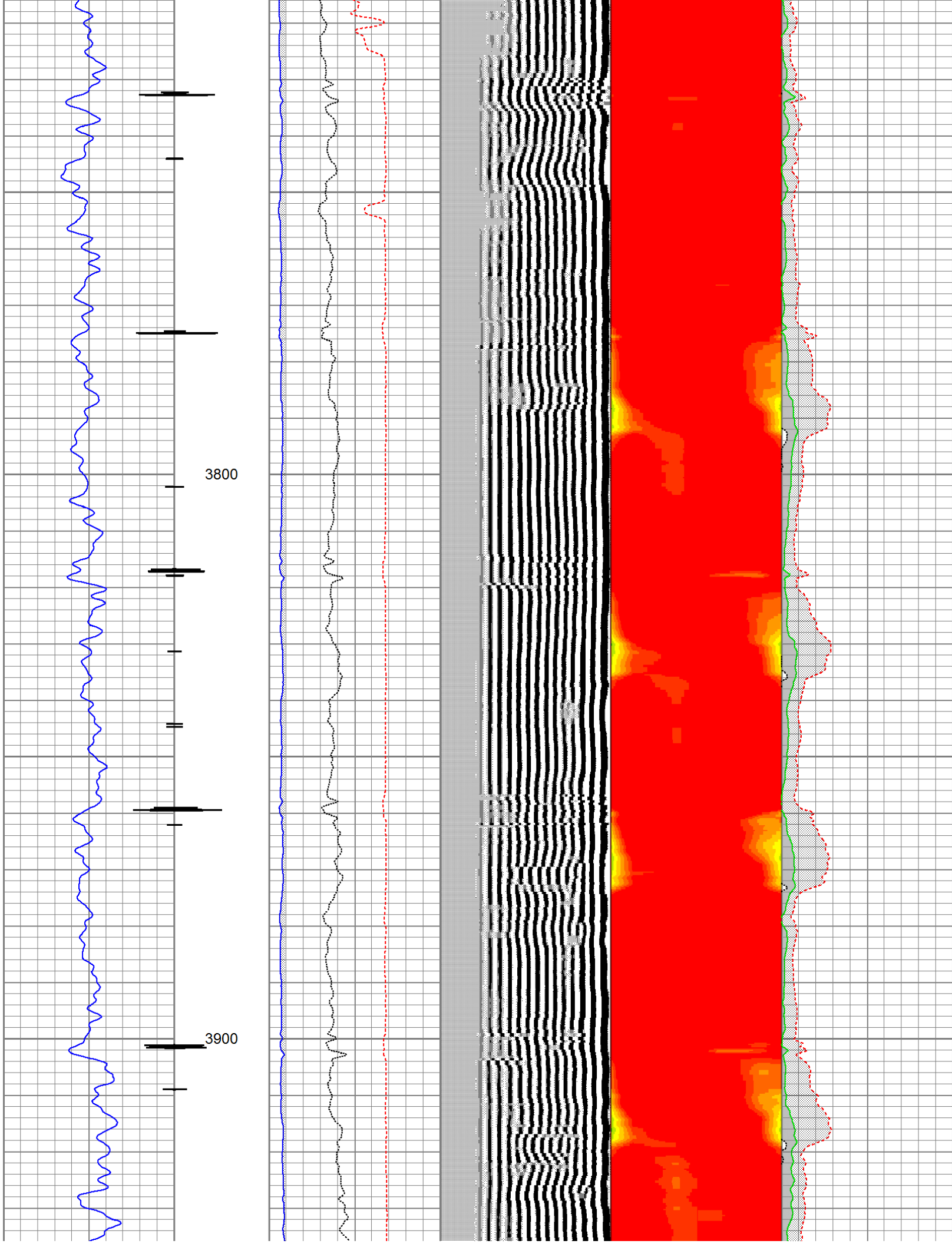




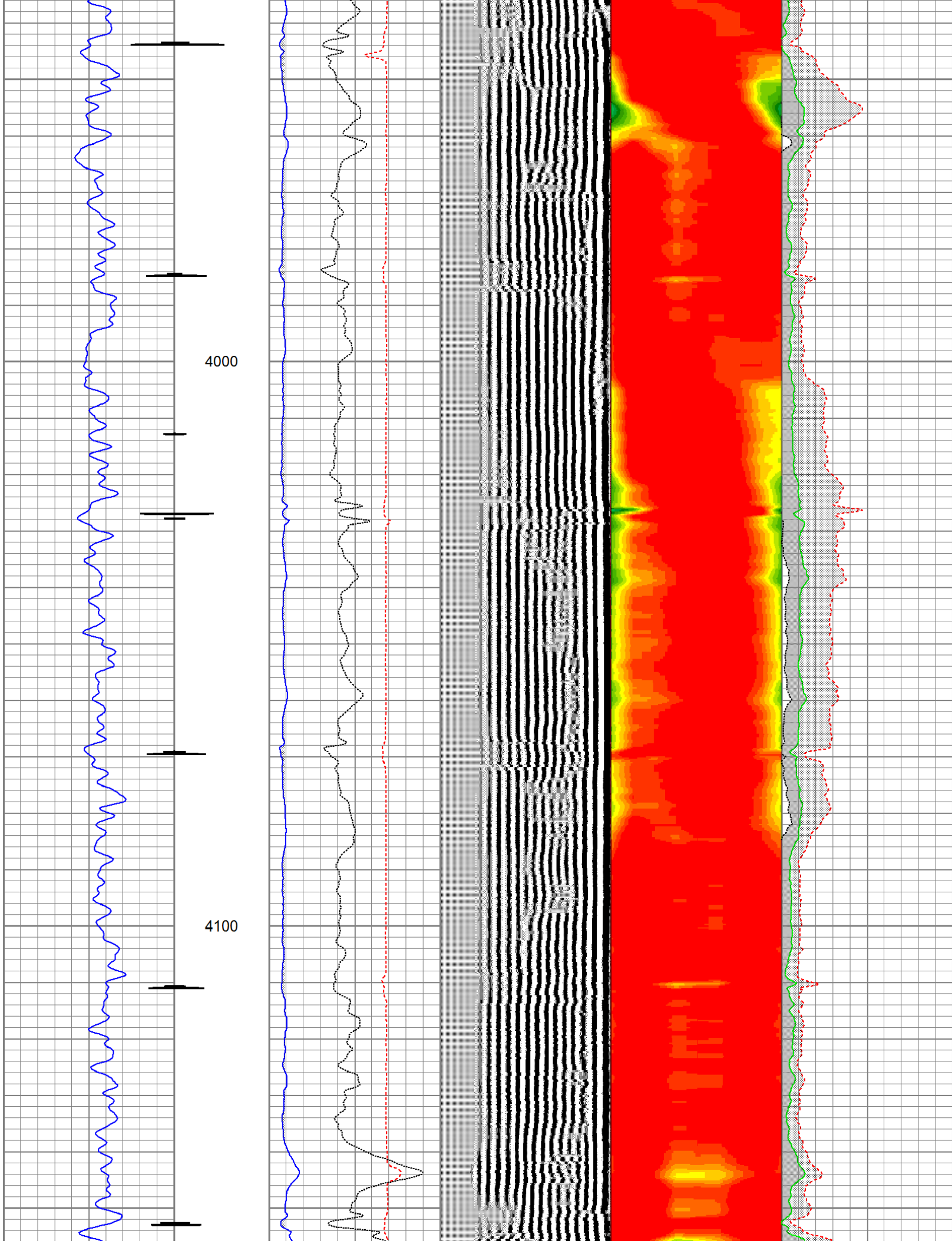


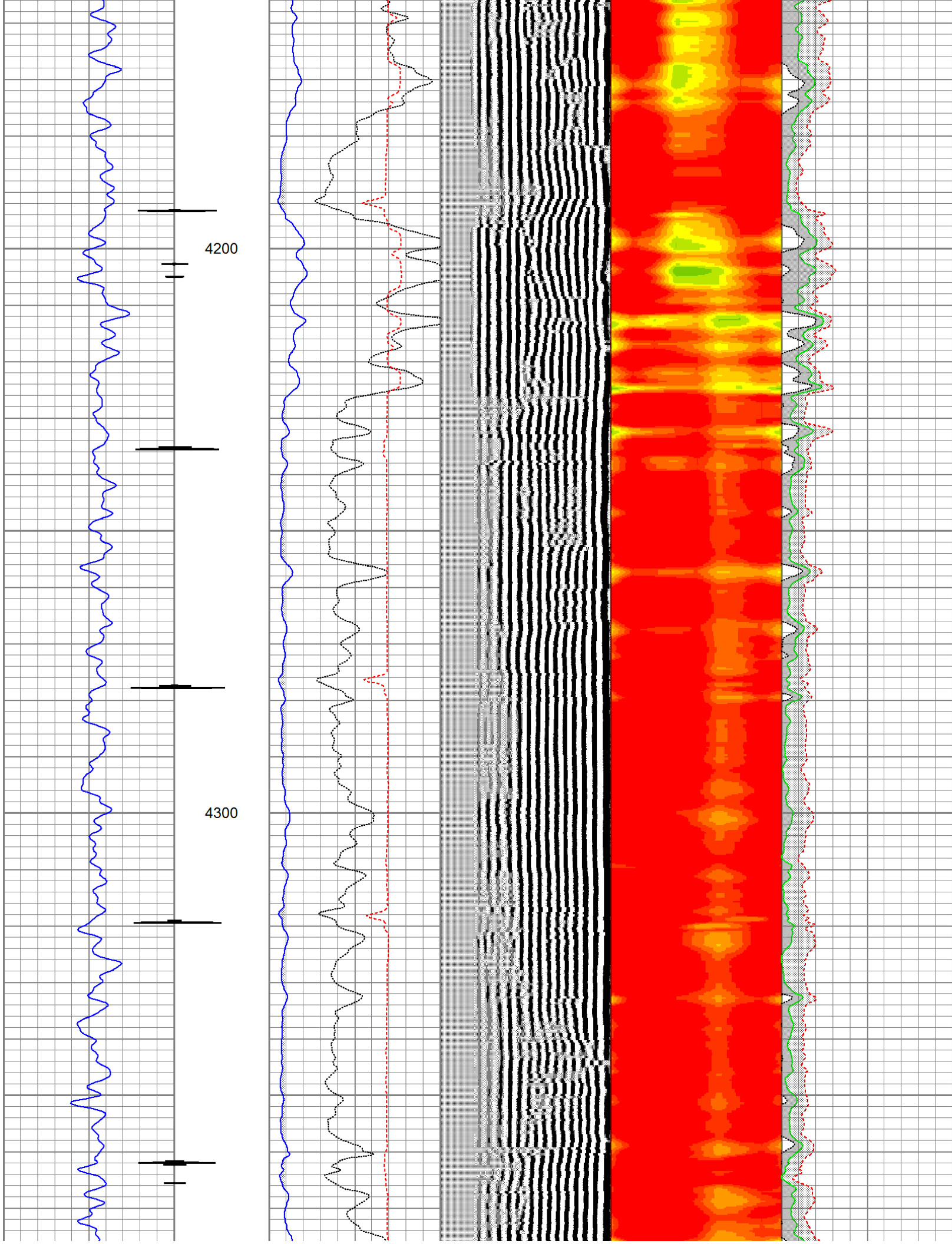




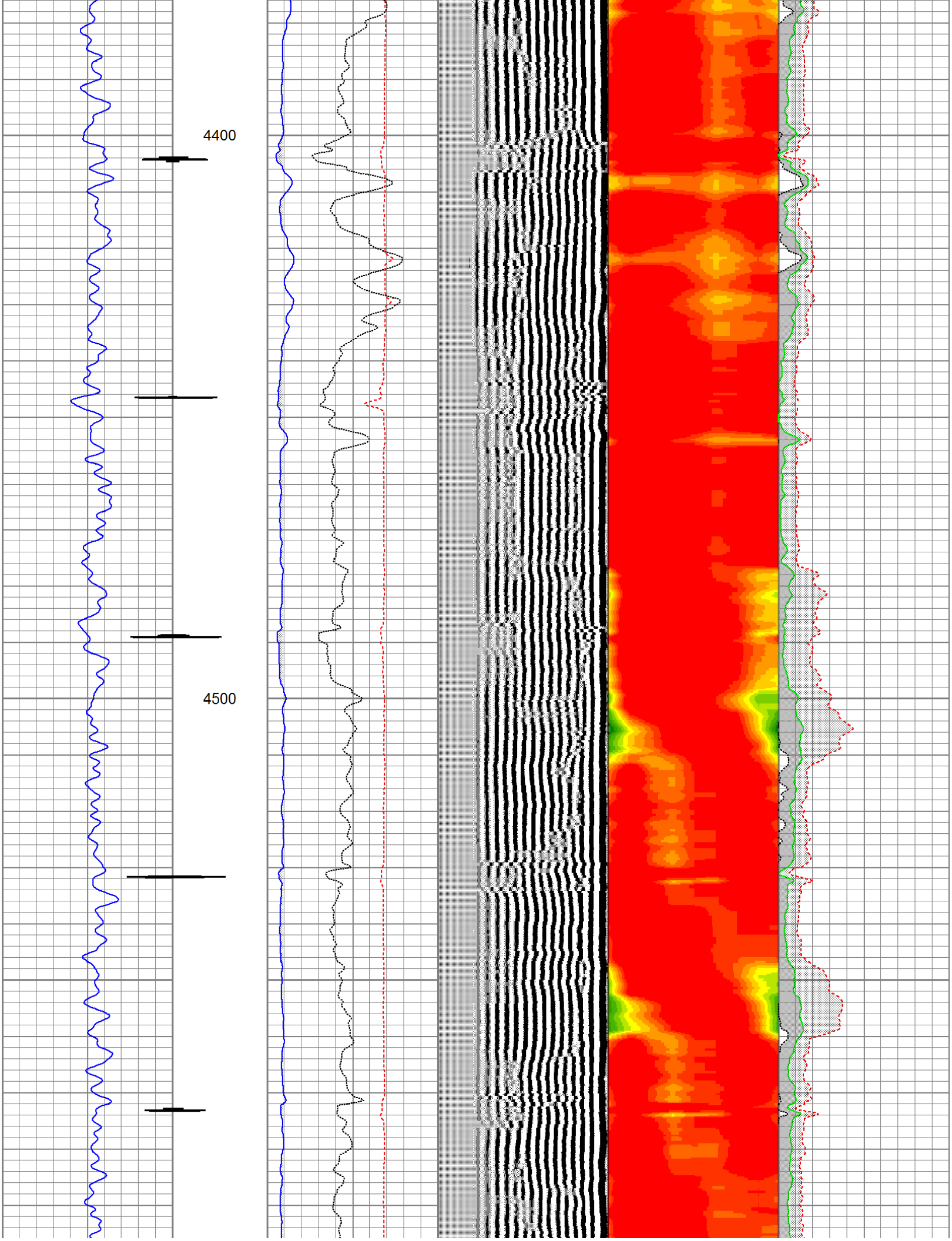


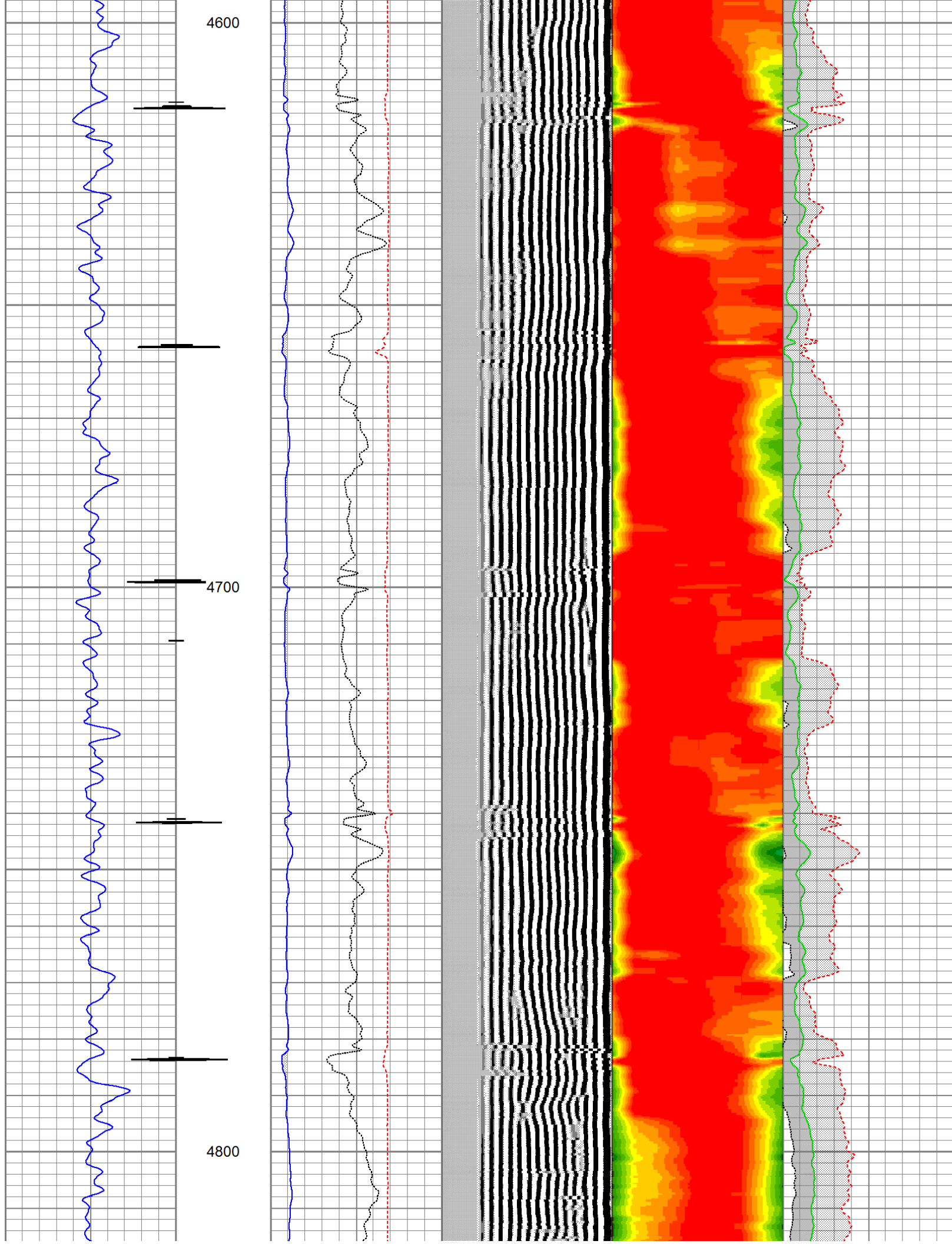




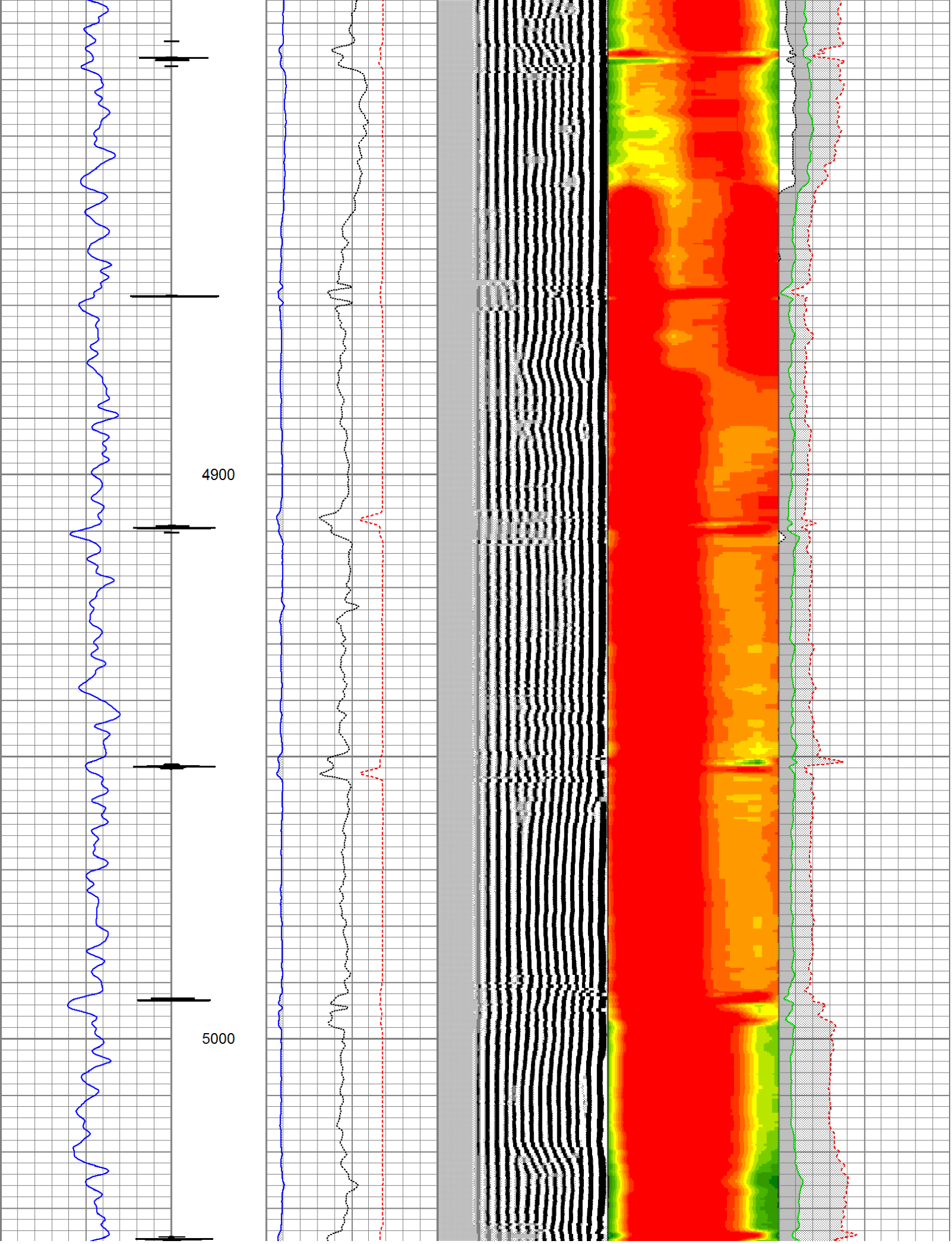


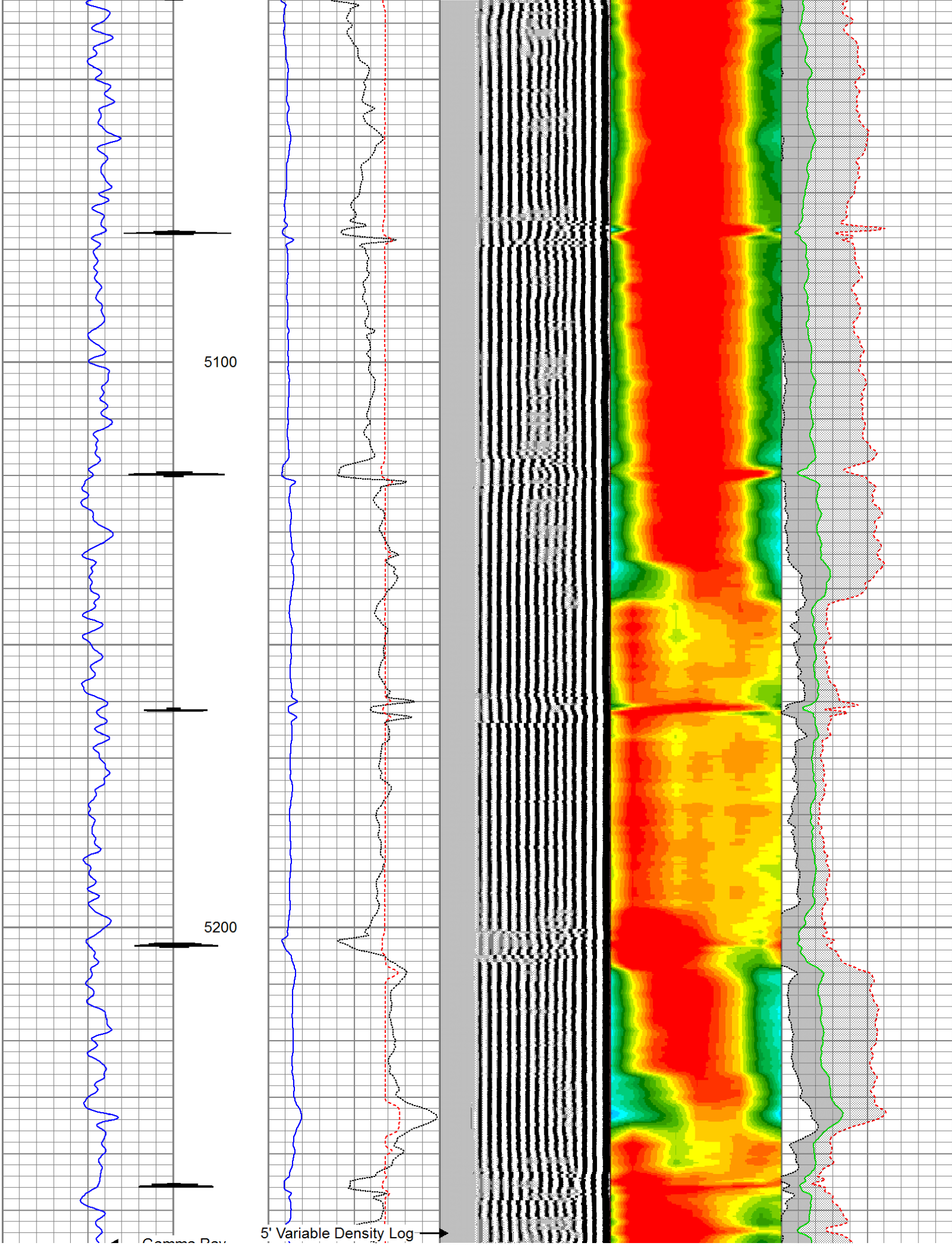




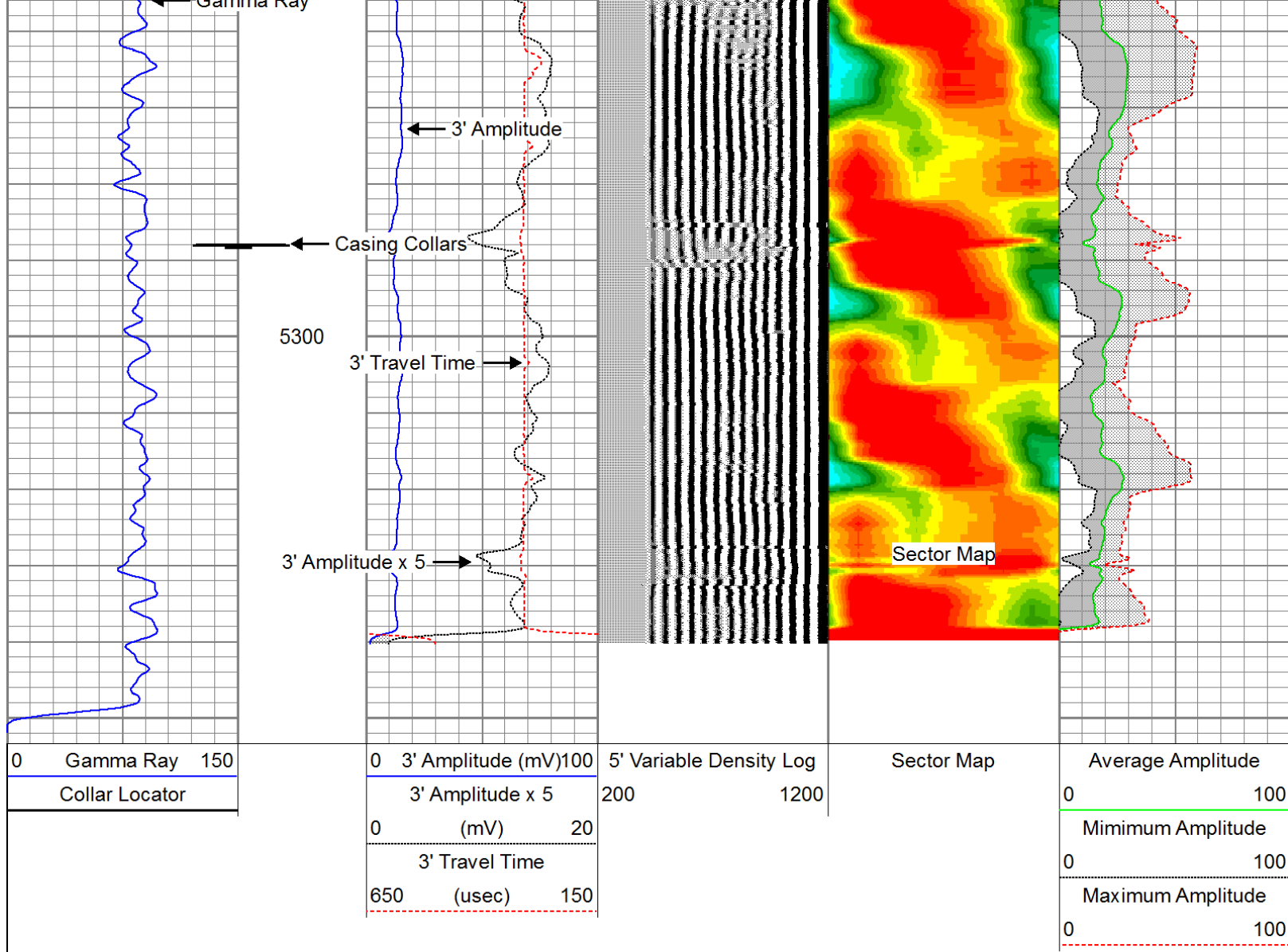













Calibration Report			
Database File:	whiting_wild horse_02-0214h.db		
Dataset Pathname:	17sep12/well/cbl/pass5		
Dataset Creation:	Mon Sep 17 12:13:02 2012 by Log SCH 111116		
Gamma Ray Calibration Report			
Serial Number:	Tek-Co2		
Tool Model:	Tek-Co		
Performed:	Tue Aug 21 11:51:16 2012		
Calibrator Value:	1.0		
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.6100	/cps	
Segmented Cement Bond Log Calibration Report			
Serial Number:	1234		
Tool Model:	275RIB		
Calibration Casing Diameter:	7.000	in	
Calibration Depth:	226.452	ft	
Master Calibration, performed Mon Sep 17 11:39:35 2012:			
Raw (uV)		Calibrated (mV)	Results

	Raw (v)		Calibrated (mV)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.068	1.001	0.000	62.165	66.599	2.000
CAL	0.027	2.099				
5'	-0.008	1.511	0.000	62.165	40.920	0.322
SUM						
S1	0.050	0.908	0.000	100.000	116.516	-5.780
S2	0.163	0.950	0.000	100.000	127.071	-20.741
S3	0.160	1.165	0.000	100.000	99.475	-15.922
S4	0.150	1.289	0.000	100.000	87.836	-13.212
S5	0.176	1.946	0.000	100.000	56.508	-9.941
S6	0.105	2.193	0.000	100.000	47.892	-5.012
S7	0.164	1.750	0.000	100.000	63.054	-10.314
S8	0.143	1.110	0.000	100.000	103.378	-14.746

Internal Reference Calibration, performed Mon Sep 17 11:21:17 2012:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.030	2.100	0.027	2.099	1.001	-0.003

Air Zero Calibration, performed Mon Sep 17 11:20:37 2012:			
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.068	0.000	-0.001
5'	-0.007	0.000	-0.001
SUM			
S1	0.051	0.000	-0.001
S2	0.161	0.000	0.002
S3	0.159	0.000	0.001
S4	0.154	0.000	-0.003
S5	0.176	0.000	-0.000
S6	0.106	0.000	-0.001
S7	0.162	0.000	0.002
S8	0.142	0.000	0.000

Temperature Calibration Report				
Serial Number:	1234			
Tool Model:	275RIB			
Performed:	Wed Sep 17 14:30:05 2008			
	Reference		Reading	
Low Reference:	75.00	degF	300.00	usec
High Reference:	400.00	degF	1282.00	usec
Gain:	0.33			
Offset:	0.00			
Delta Spacing	1			

	Company	WHITING OIL & GAS		
	Well	WILD HORSE 02-0214H		
	Field	WILDCAT		
	County	WELD		
	State	COLORADO		Country USA