



**RADIAL
CEMENT BOND/
CORR. PASS
LOG**

Company NGL WATER SOLUTIONS DJ LLC
Well NGL C1C
Field WATTENBERG
County WELD
State COLORADO

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Well NGL C1C
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-40377
SHL: 336' FSL & 211' FEL
BHL: 2161' FNL & 75' FEL, SEC. 17
SEC 8 TWP 4N RGE 64W
Permanent Datum GROUND LEVEL Elevation 4706'
Log Measured From KELLY BUSHING = 15'
Drilling Measured From KELLY BUSHING
Other Services N/A
Elevation K.B. 4719'
D.F. 4718'
G.L. 4706'

Date	DECEMBER 5 2014
Run Number	ONE
Depth Driller	10757'
Depth Logger	10710'
Bottom Logged Interval	10710'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Density / Viscosity	~8.3# PER GAL
Max. Recorded Temp.	317 DEG F
Estimated Cement Top	1420'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	D7 RBT 3
Location	MEAD, CO.
Recorded By	C.PACE
Witnessed By	L.MORSE

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	704'				
TWO	8.75"	704'	9035'				
THREE	6.125"	9035'	10757'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	9 5/8"	36# J-55	SURFACE	704'			
Prot. String							
Production String	7"	26# N-80	SURFACE	9035'			
Liner	4 1/2"	11.6# N-80	8900'	10751'			

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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

LOG CORRELATED TO PIONEER COMPENSATED NEUTRON LOG DATED 11/20/2014
LOGGED UNDER 1000 PSI

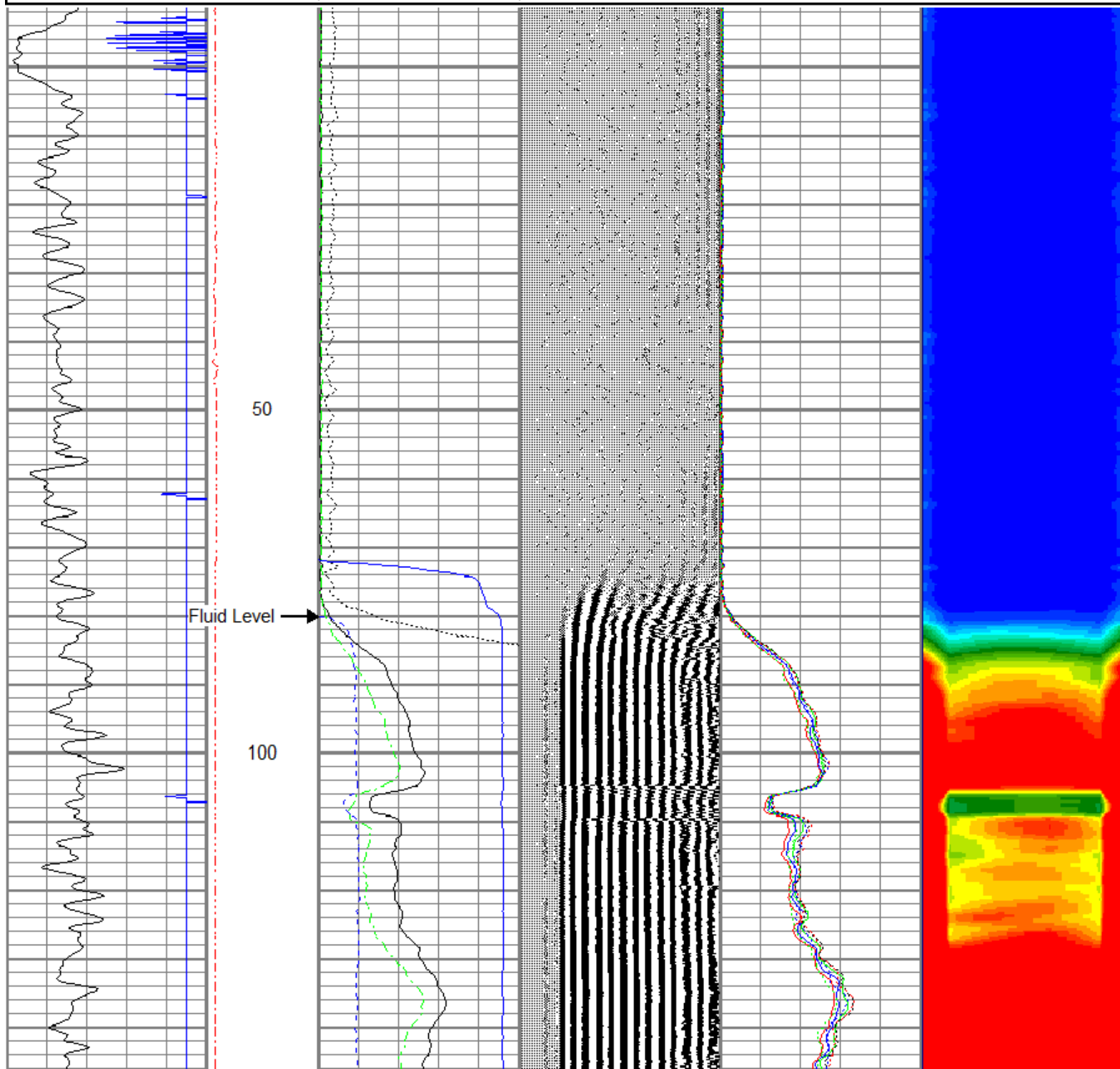


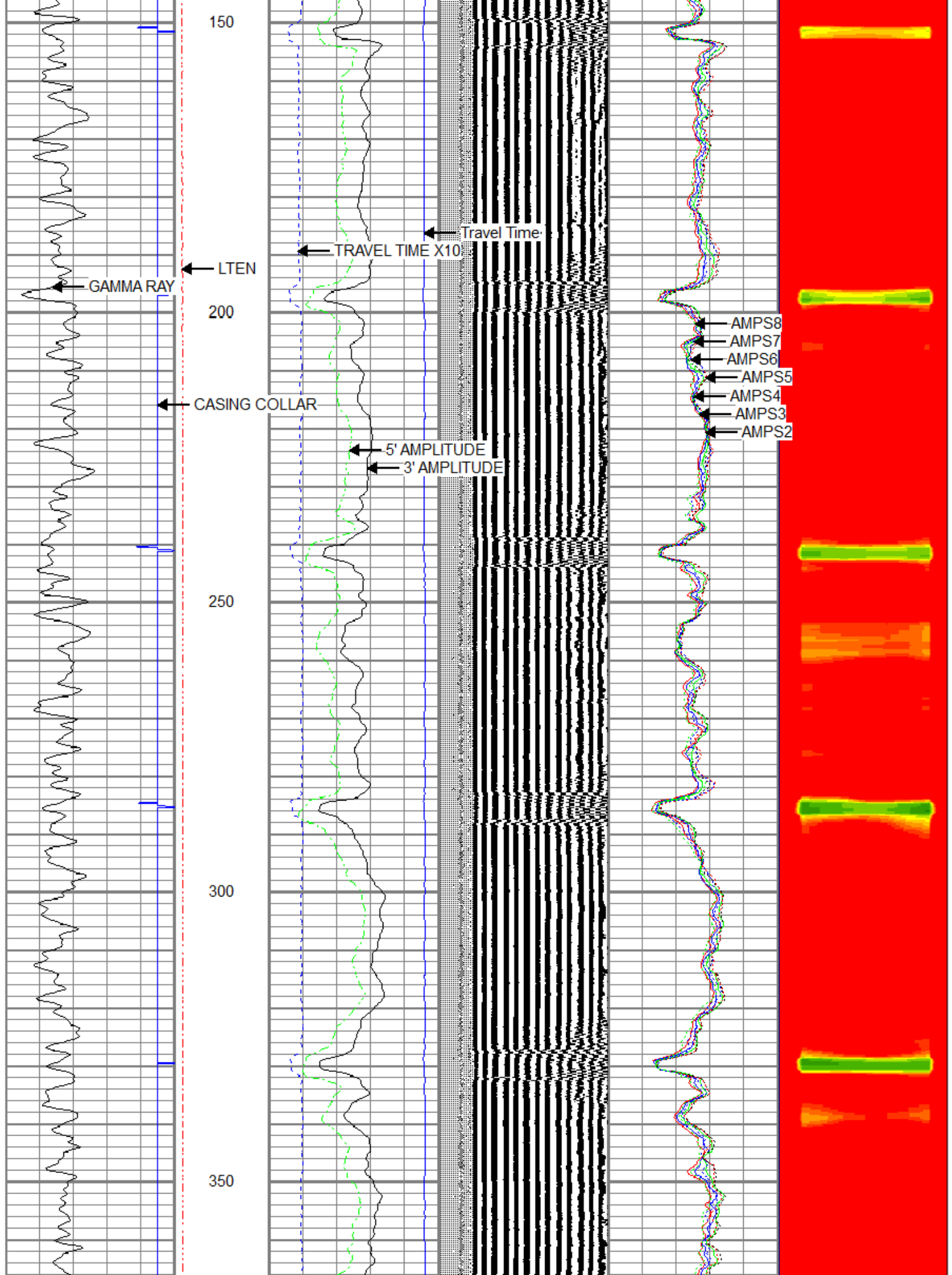
MAIN PASS

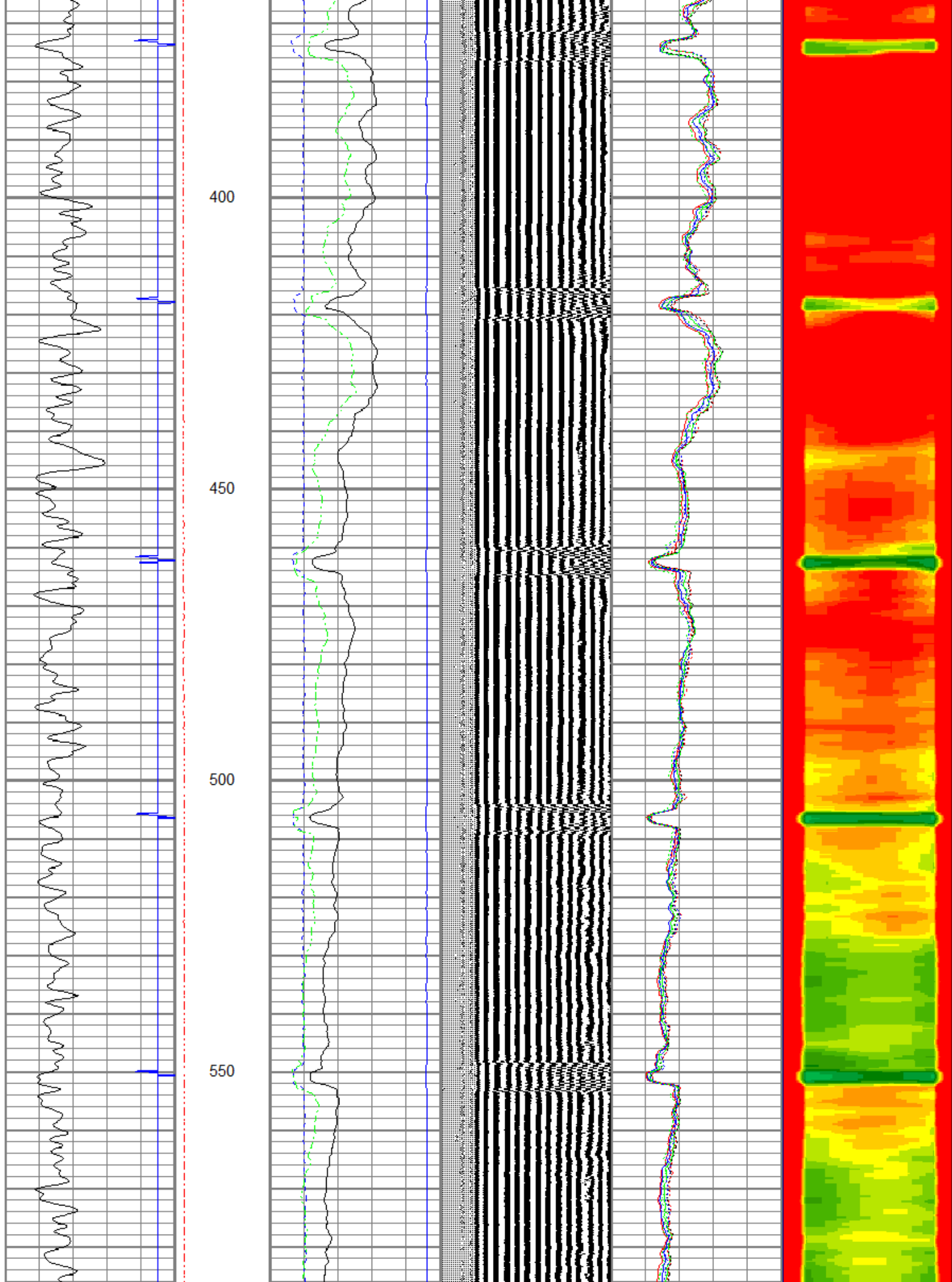
5" = 100'

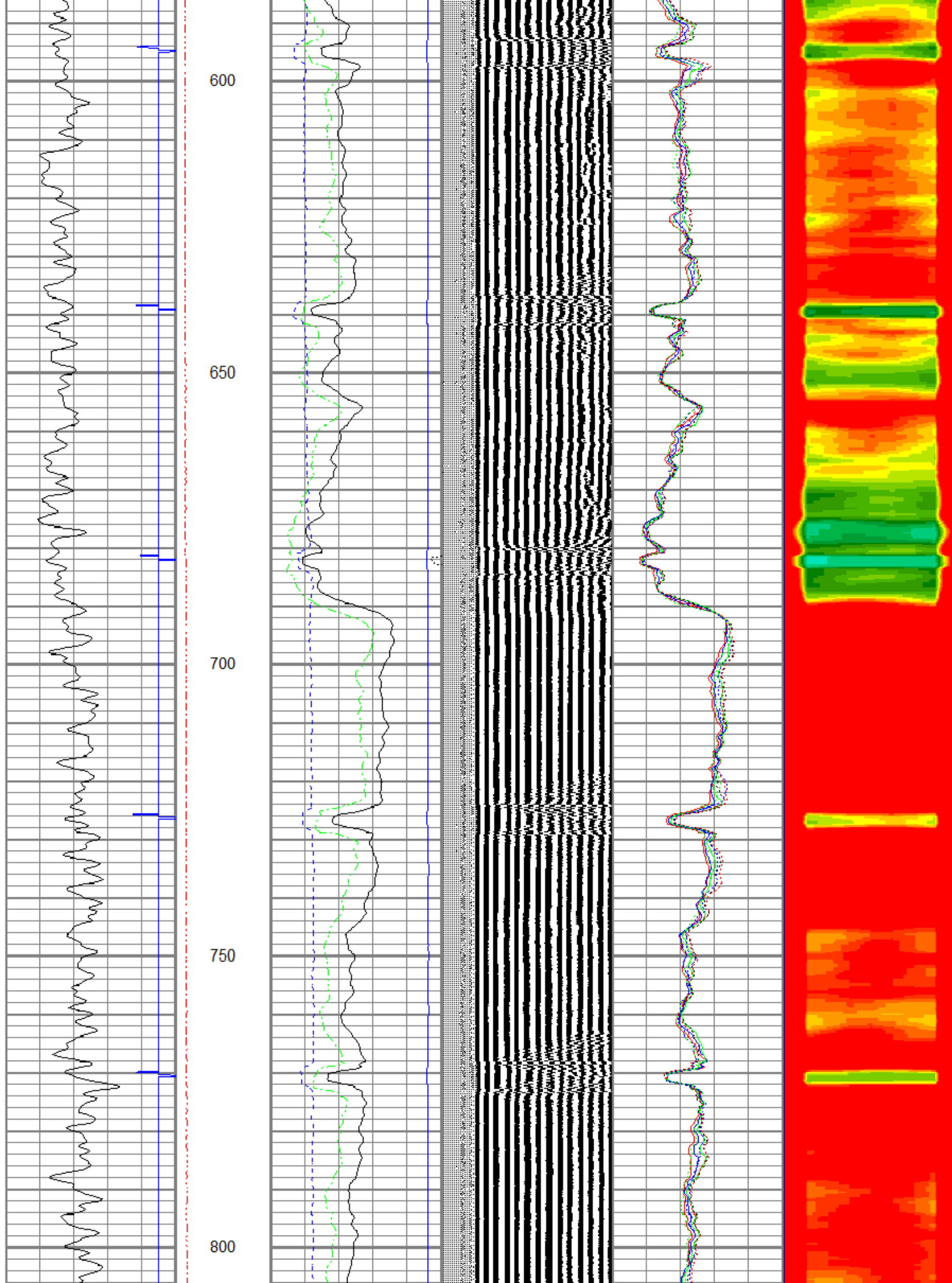
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 Dataset Pathname pass4
 Presentation Format rst5inplo
 Dataset Creation Fri Dec 05 16:18:06 2014
 Charted by Depth in Feet scaled 1:240

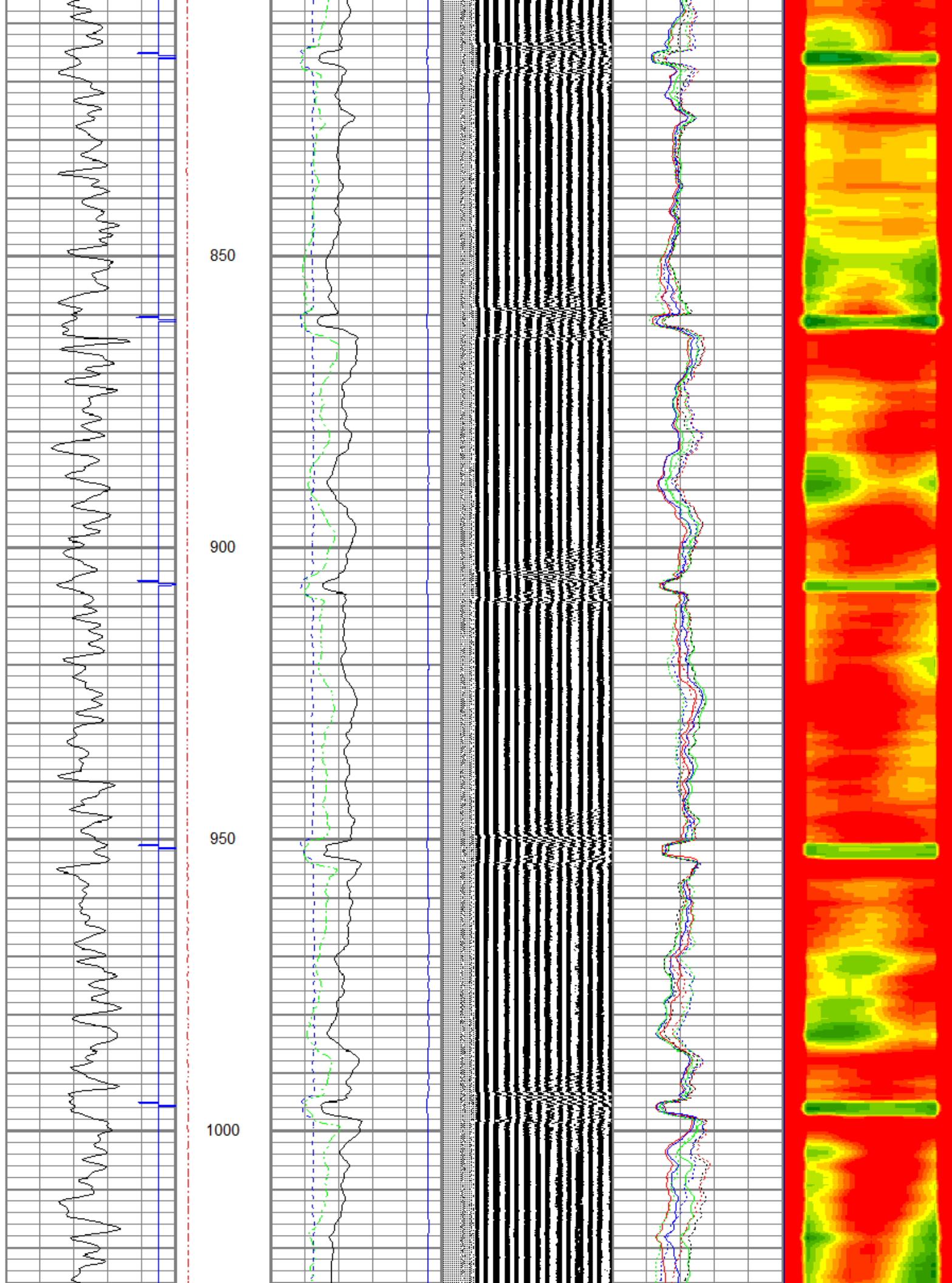
GAMMA RAY	LTEN	3' AMPLITUDE	200	VDL	1200	0	AMPS2	100	1	Cement Map	8
0 (GAPI) 200	0 (lb)3000	0 (mV) 100				0	AMPS3	100	4		45
-9 CASING COLLAR 1		0 AMP X5 (mV) 20				0	AMPS4	100			
		TRAVEL TIME X10				0	AMPS5	100			
		300 (usec) 200				0	AMPS6	100			
		5' AMPLITUDE				0	AMPS7	100			
		0 (mV) 100				0	AMPS8	100			
		Travel Time									
		1200 (usec) 200									

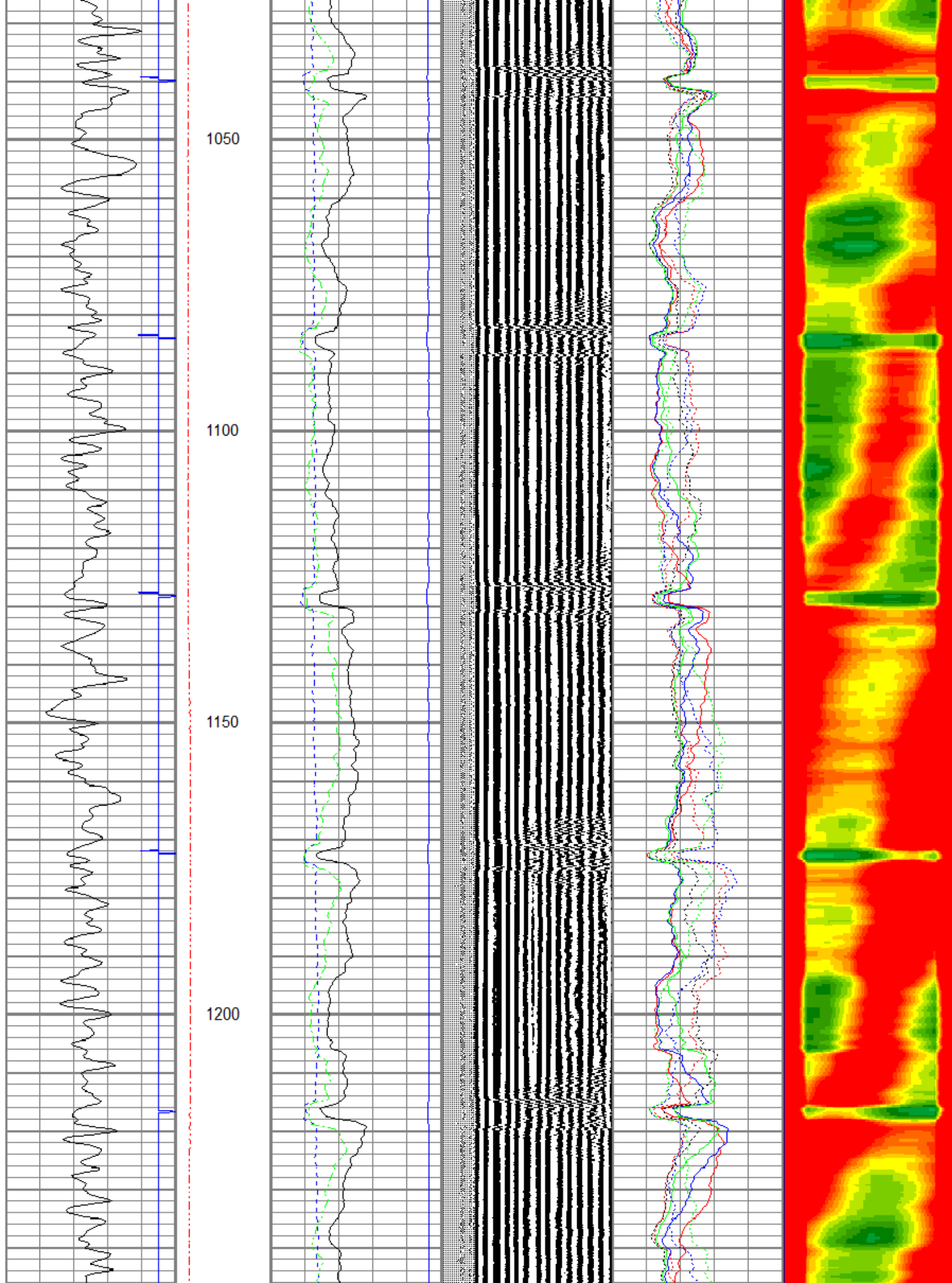


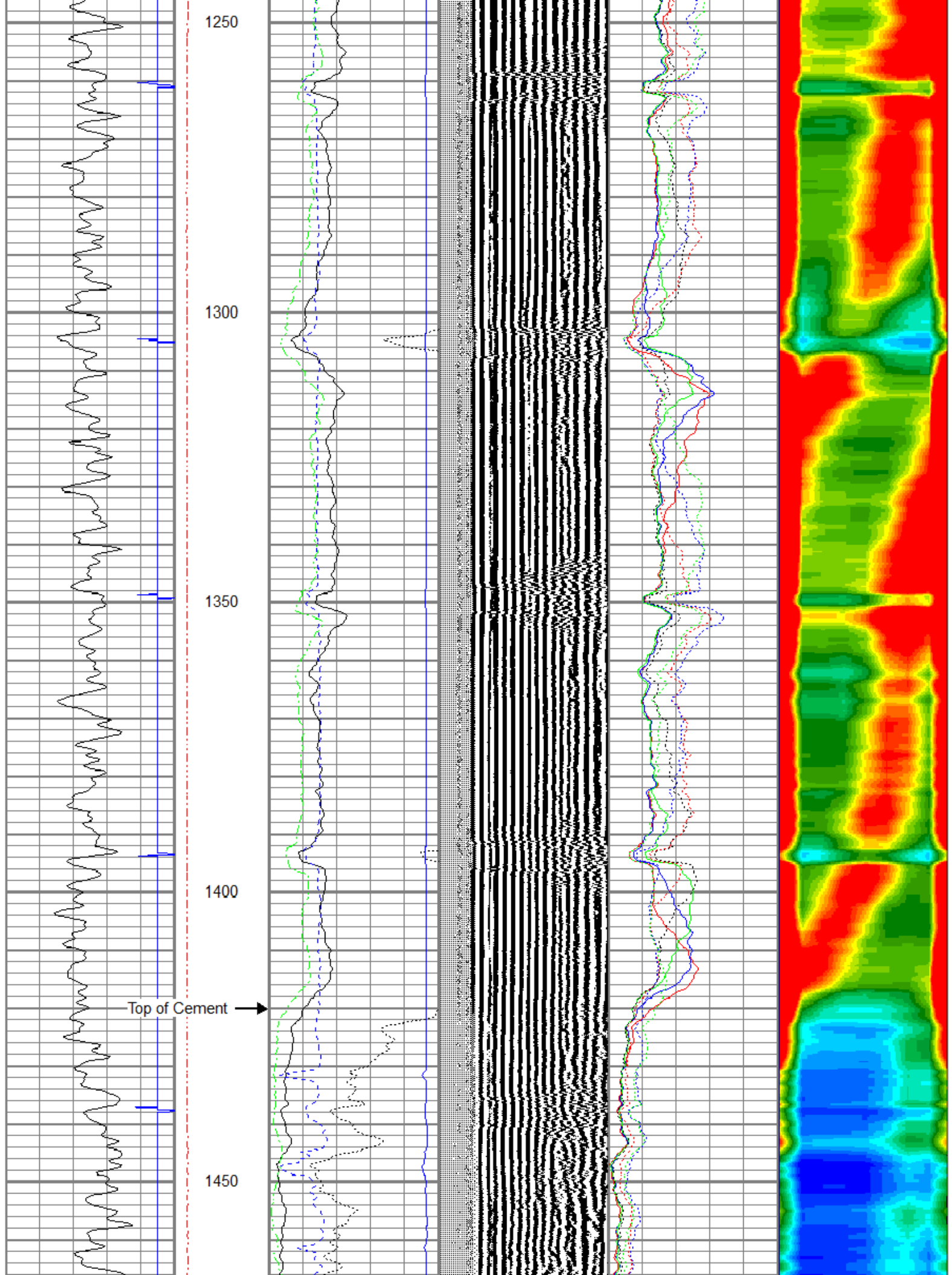


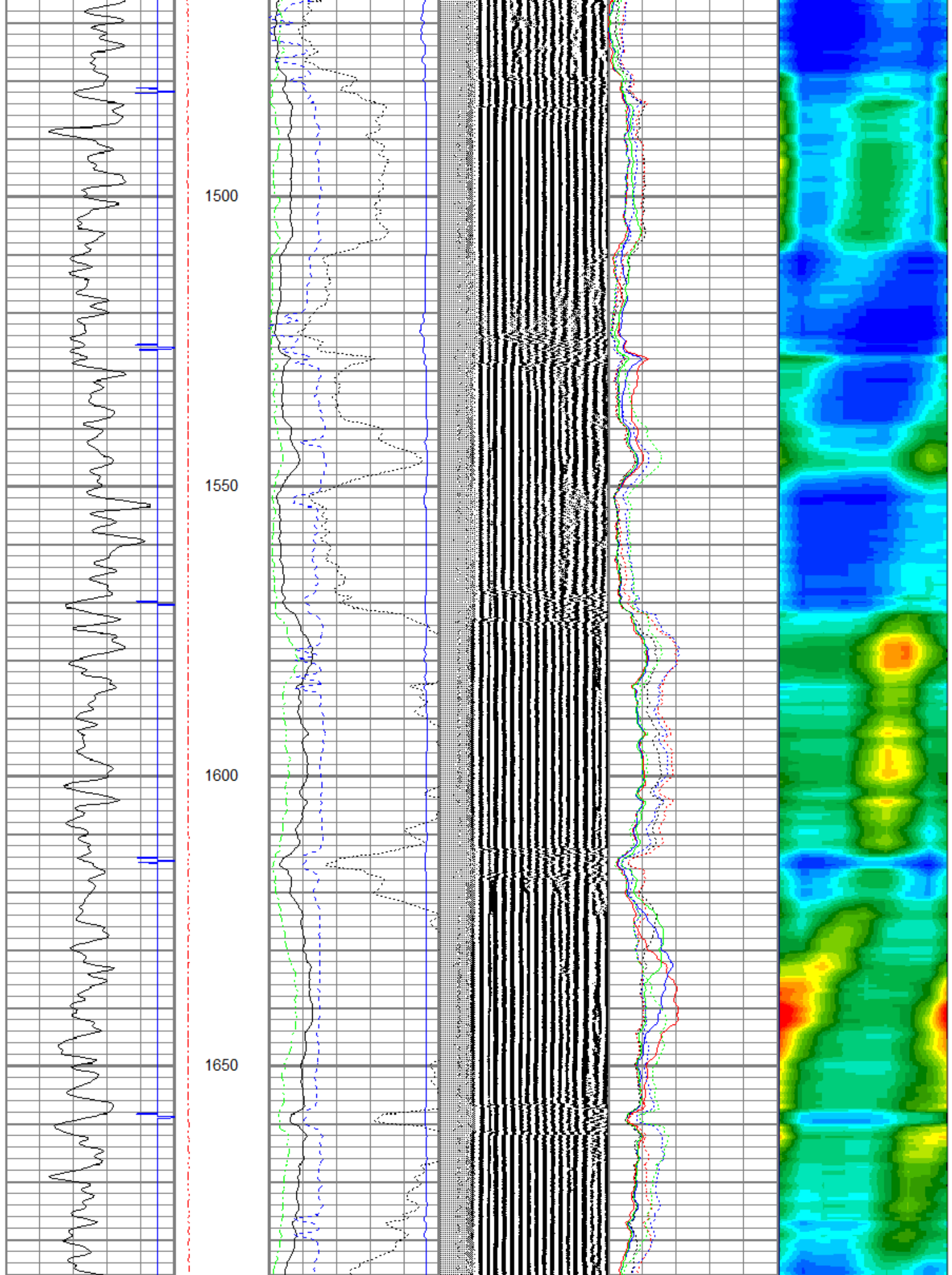


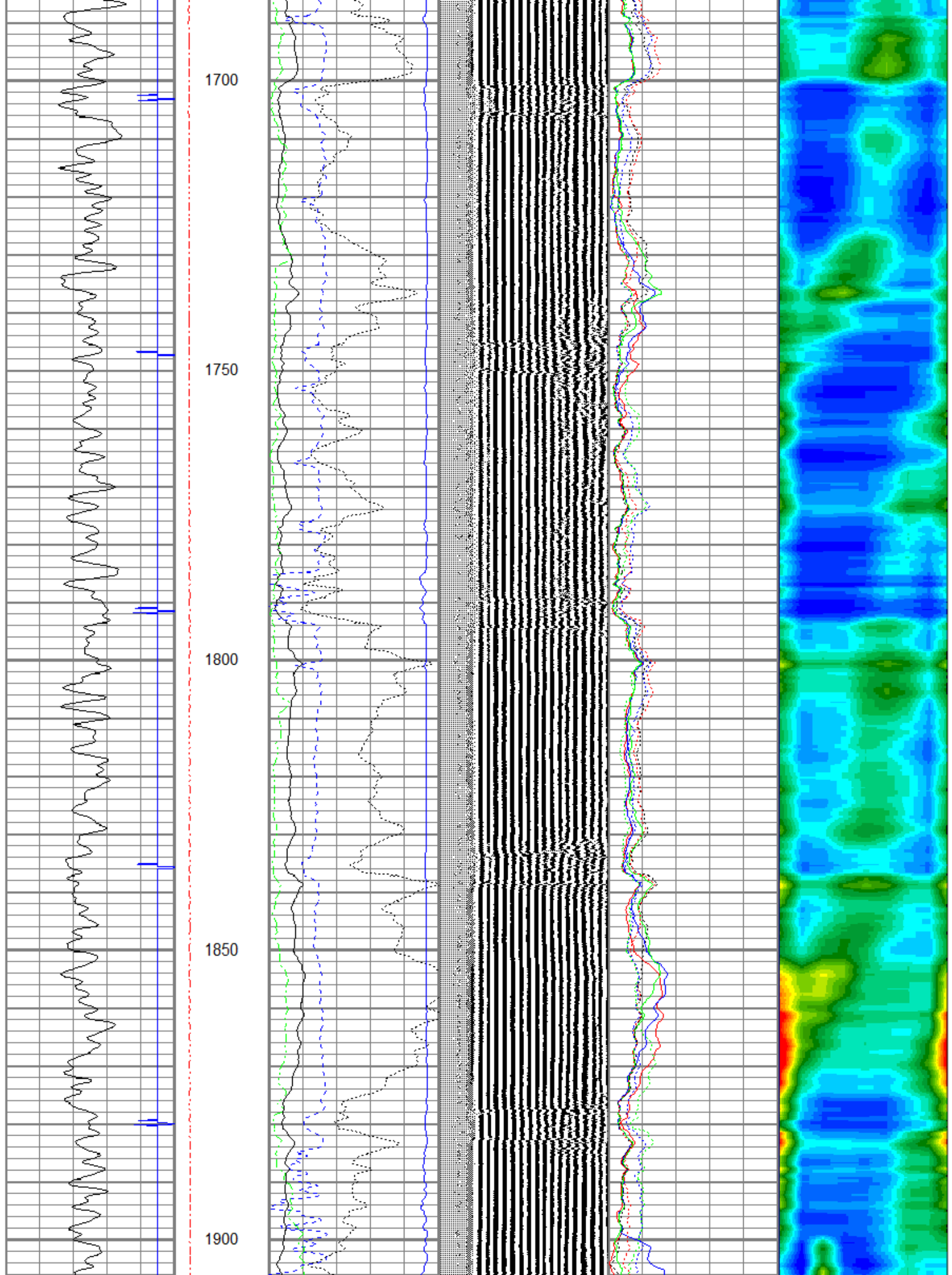


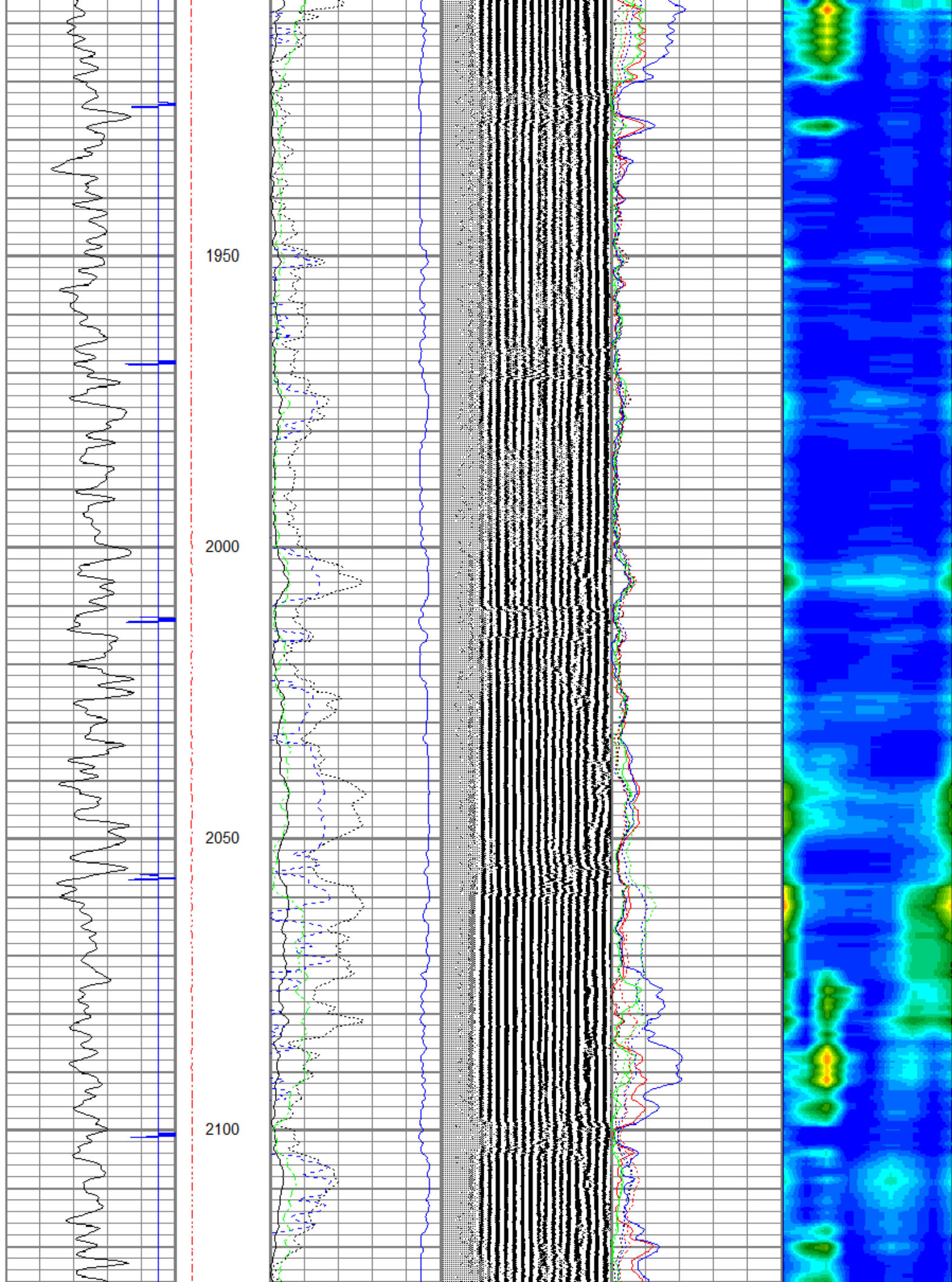


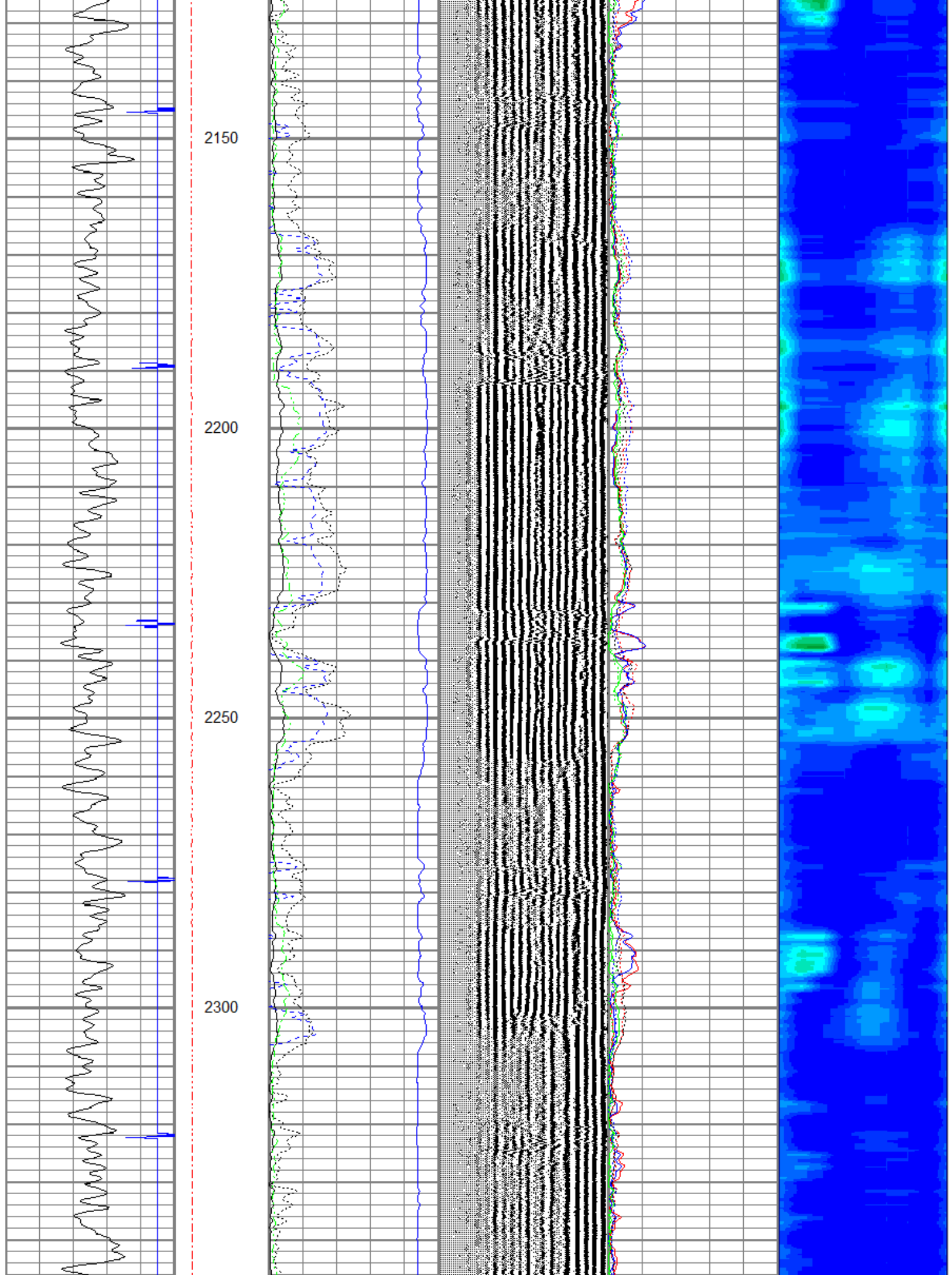


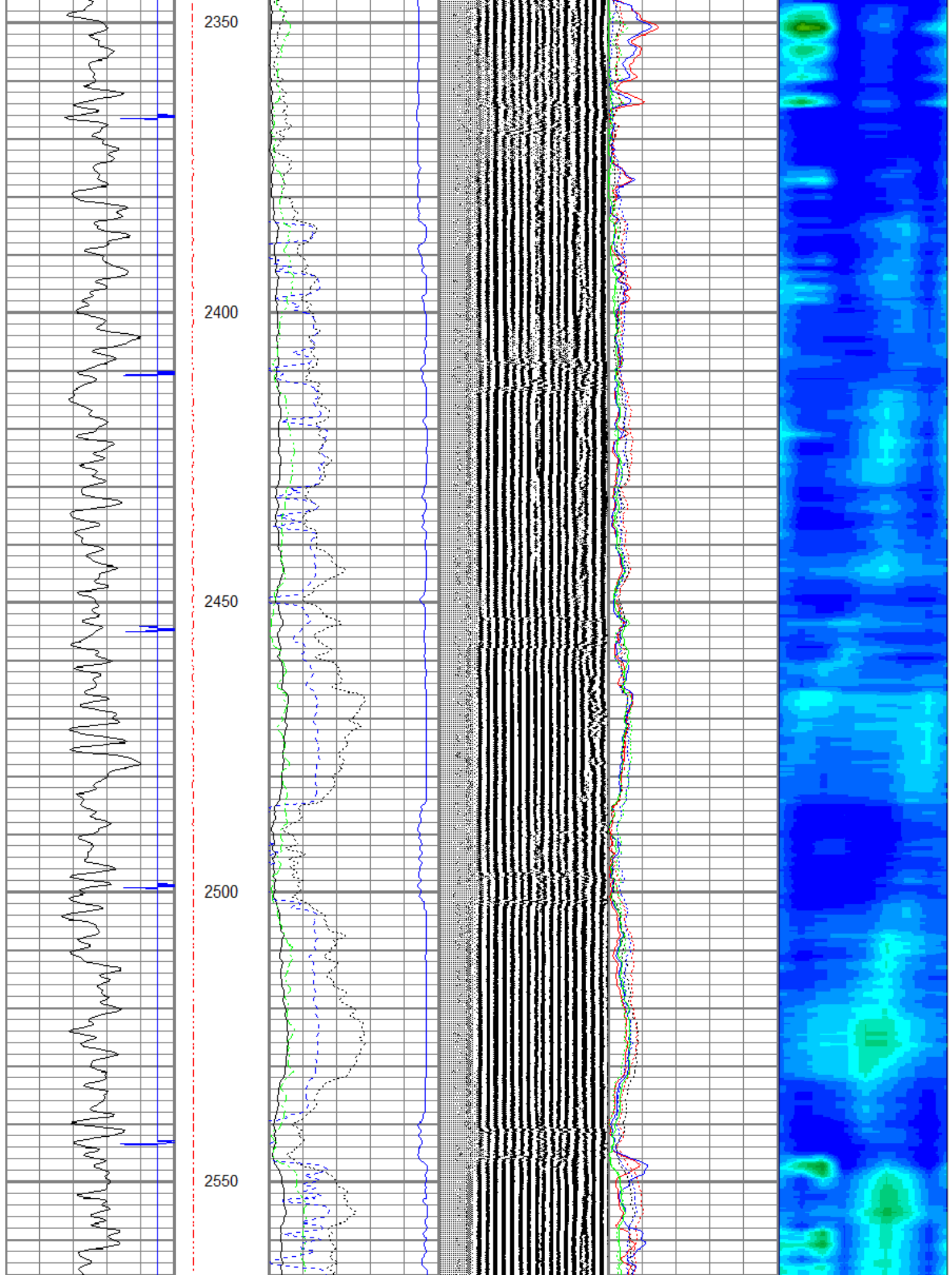


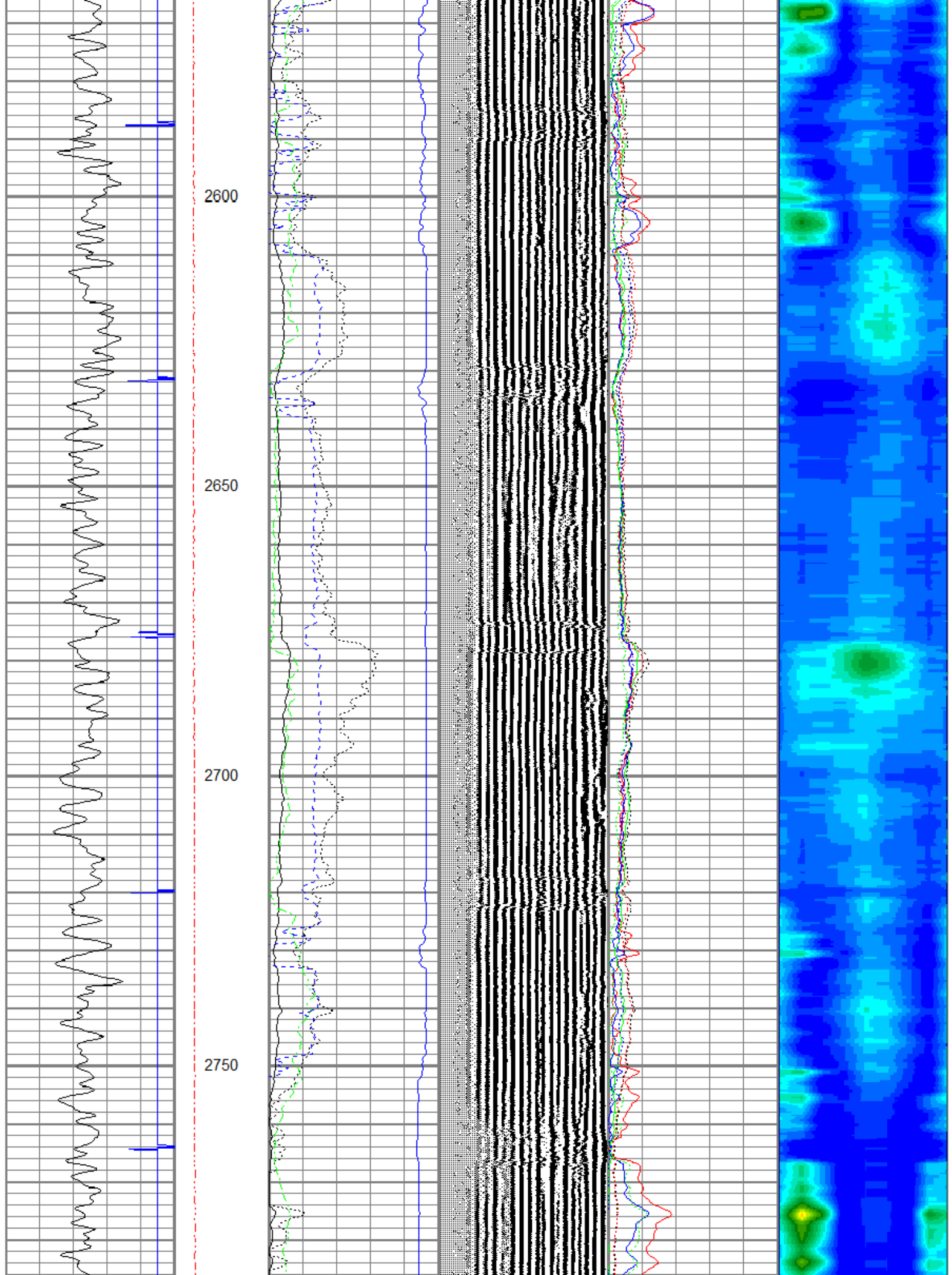


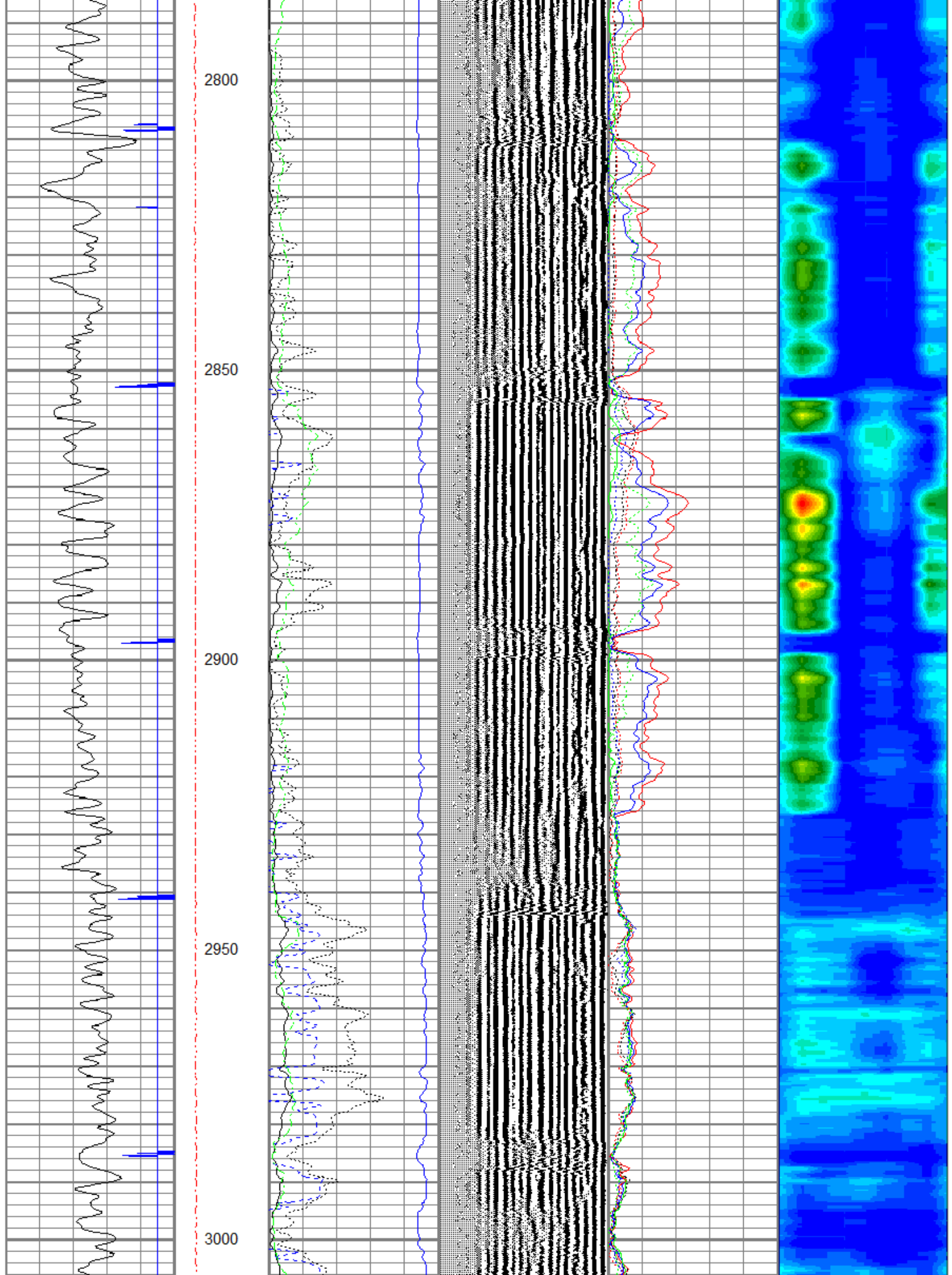


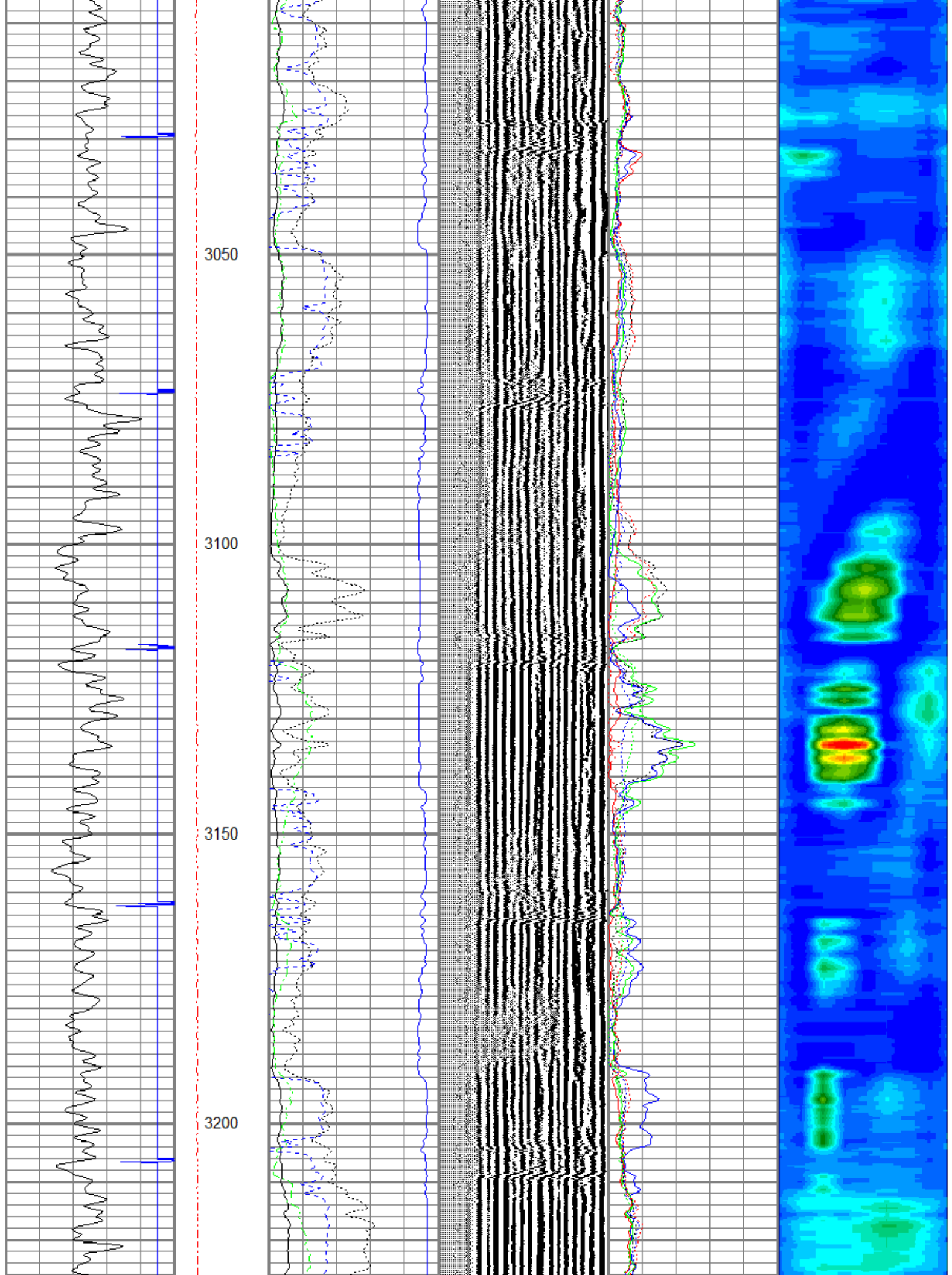


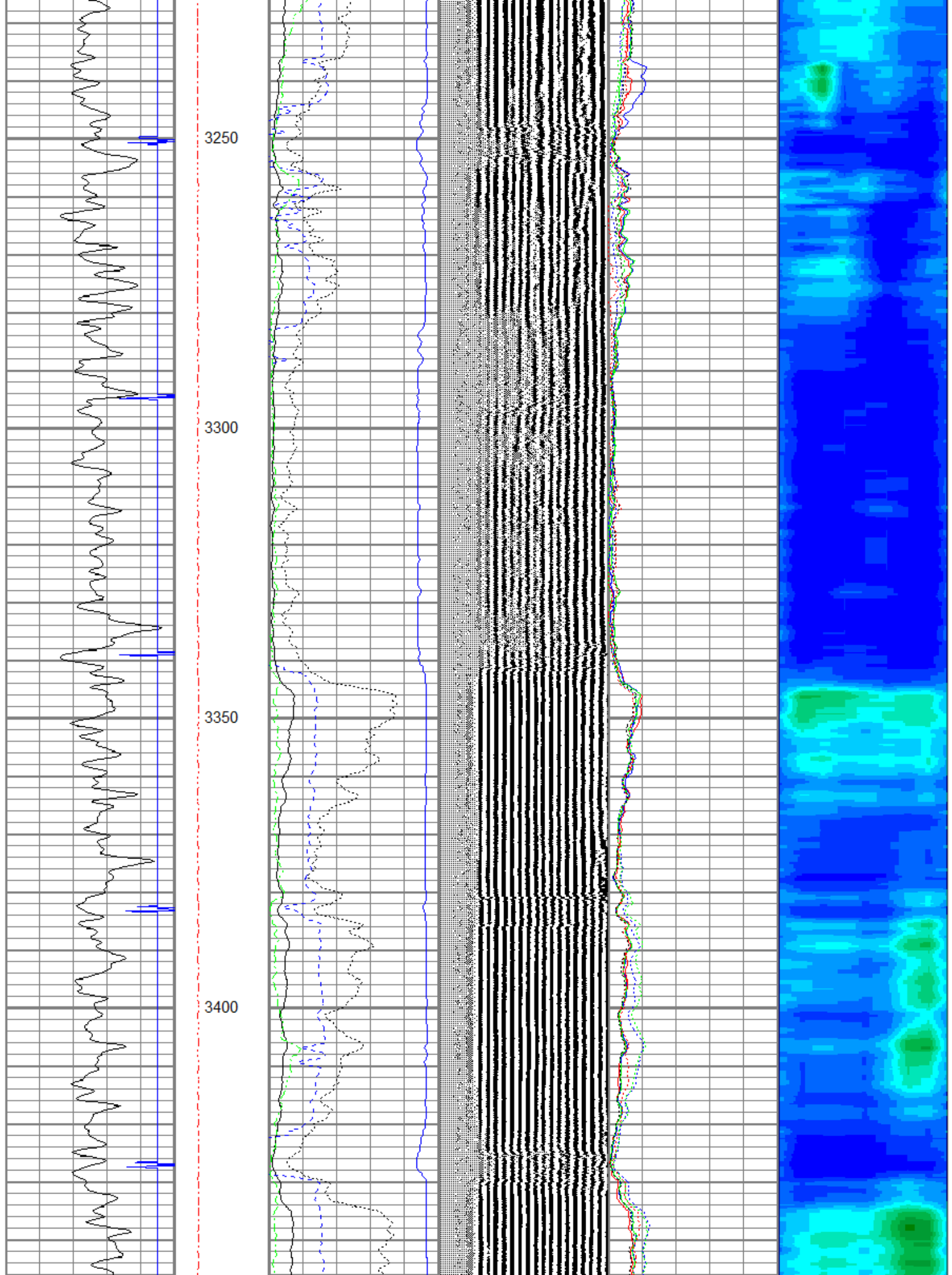


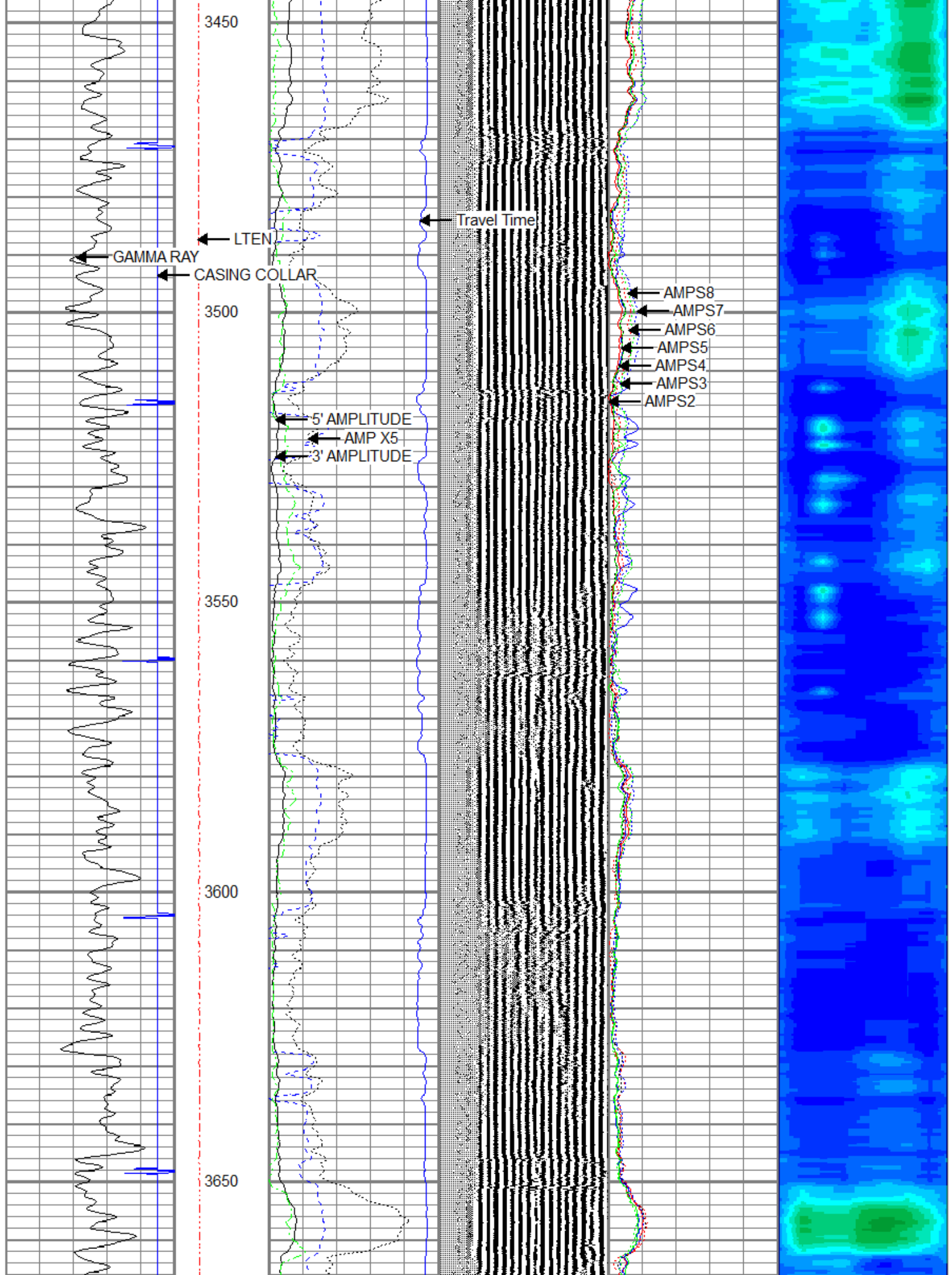


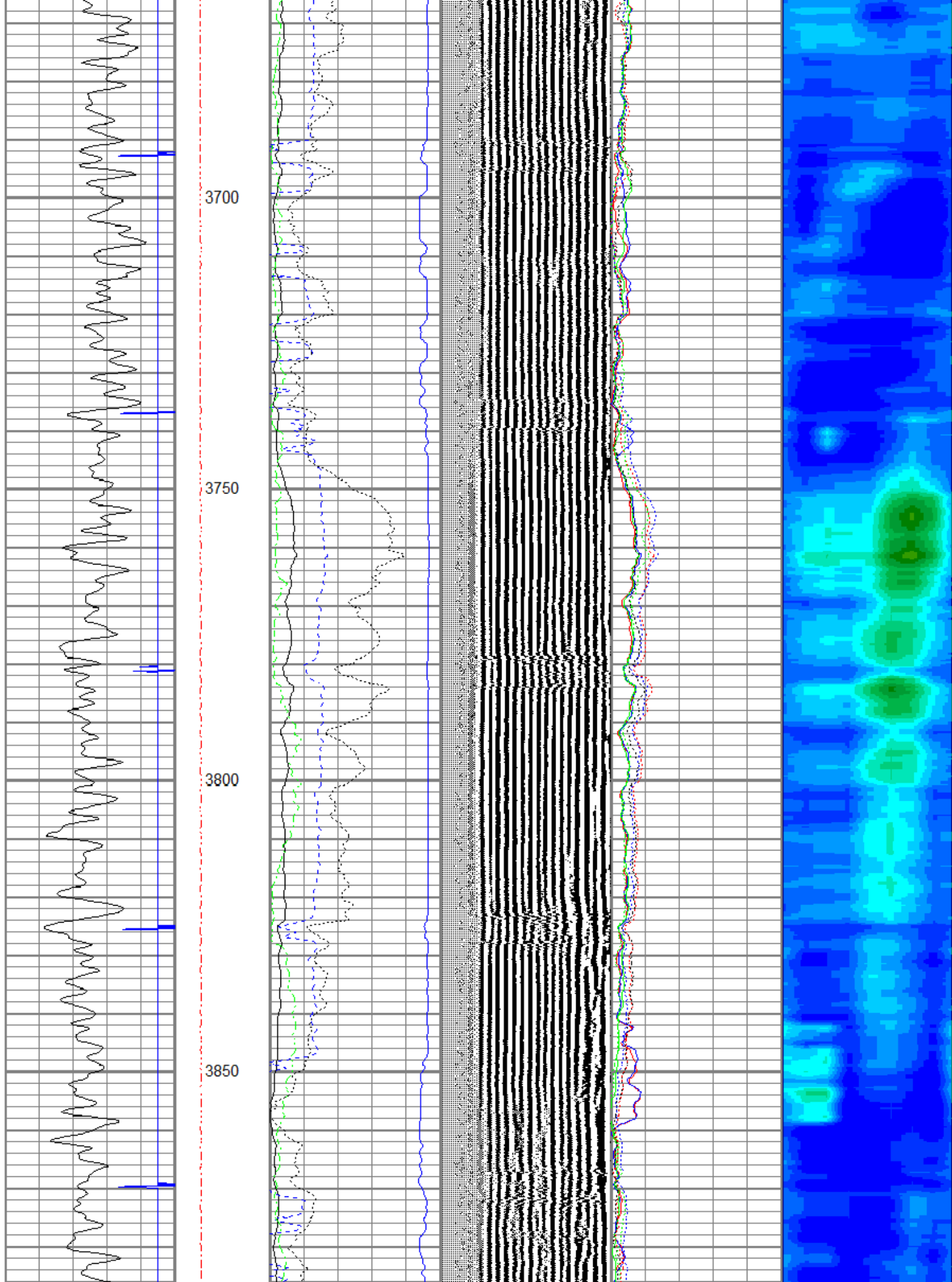


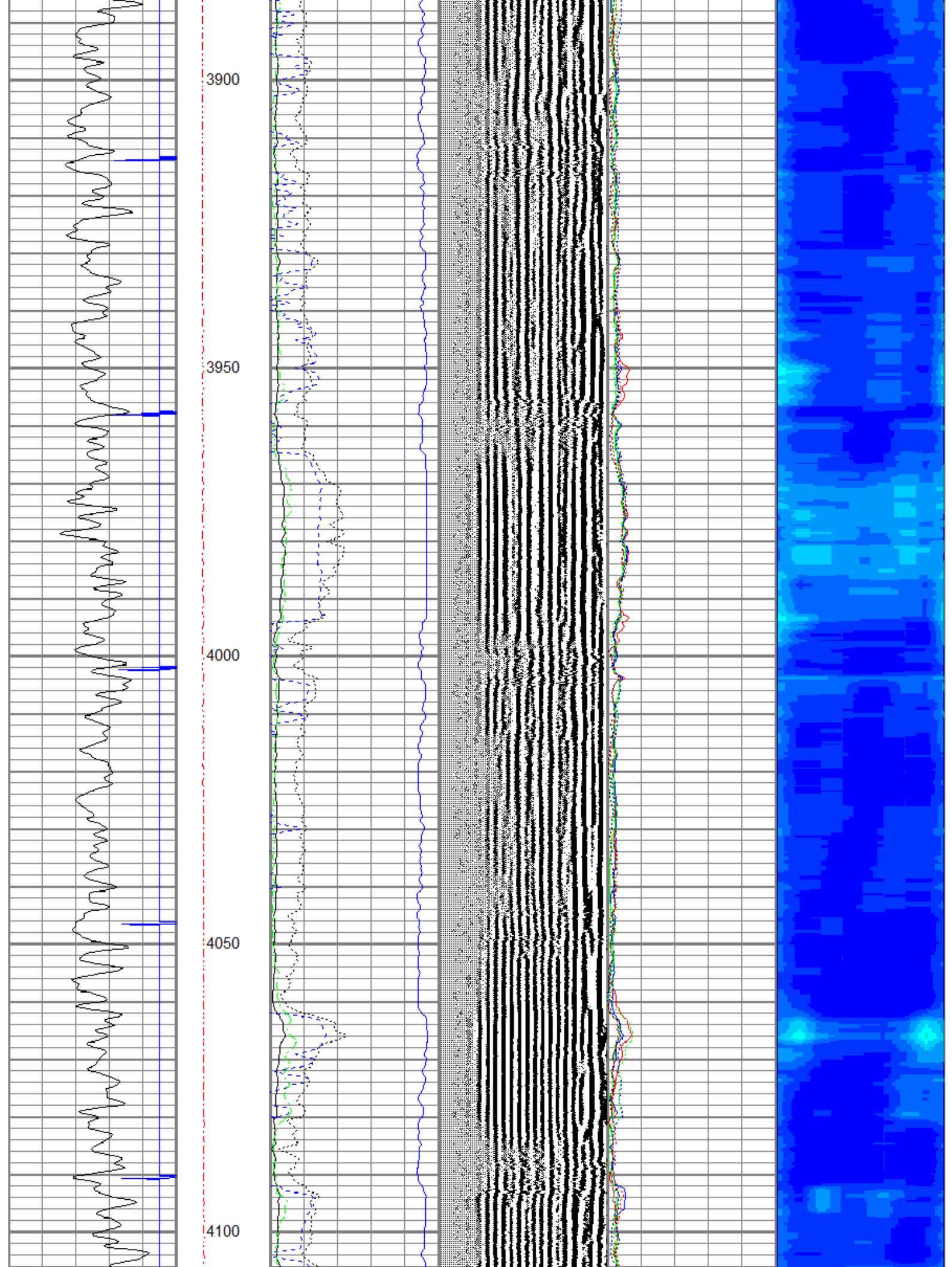


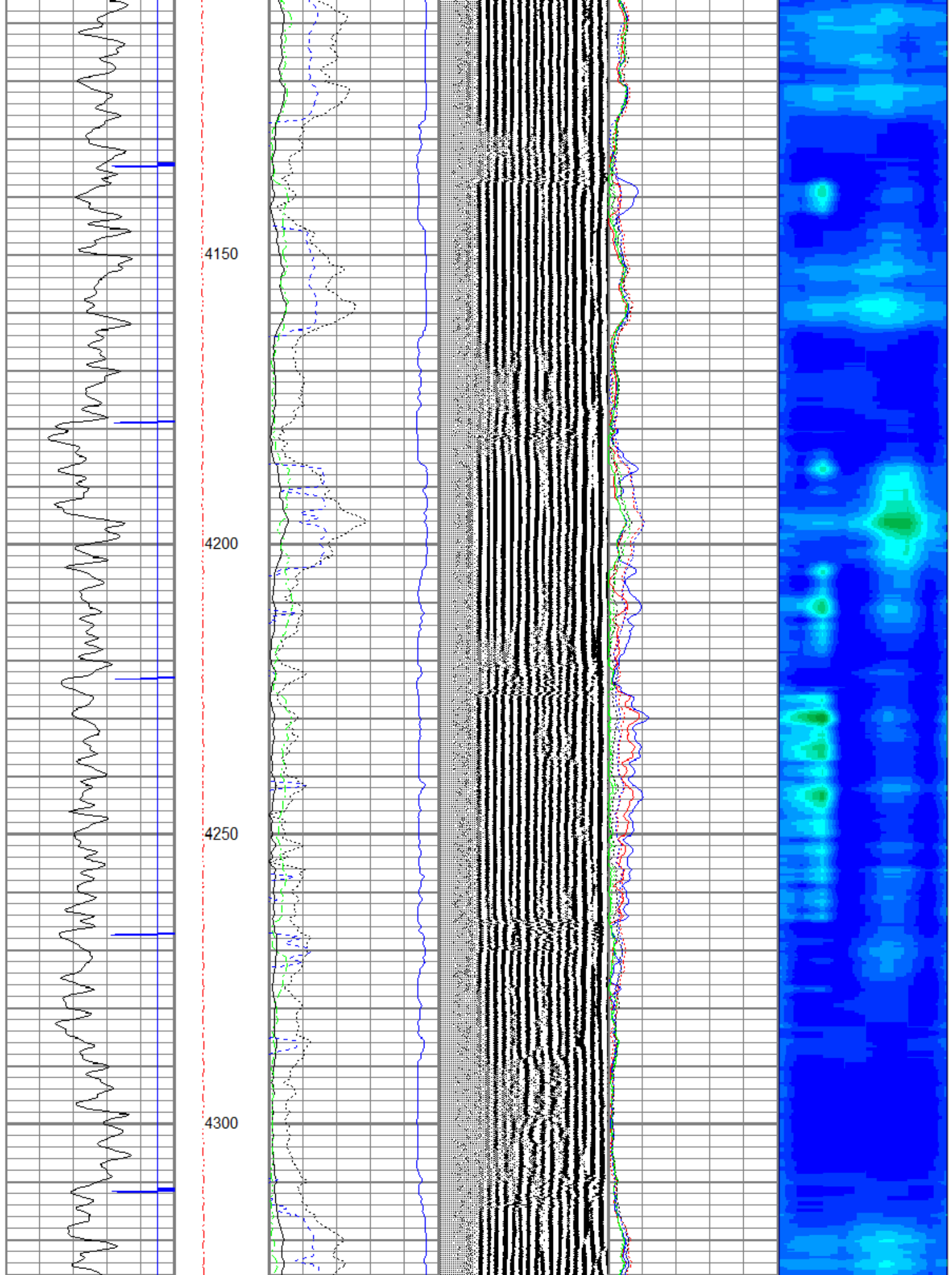


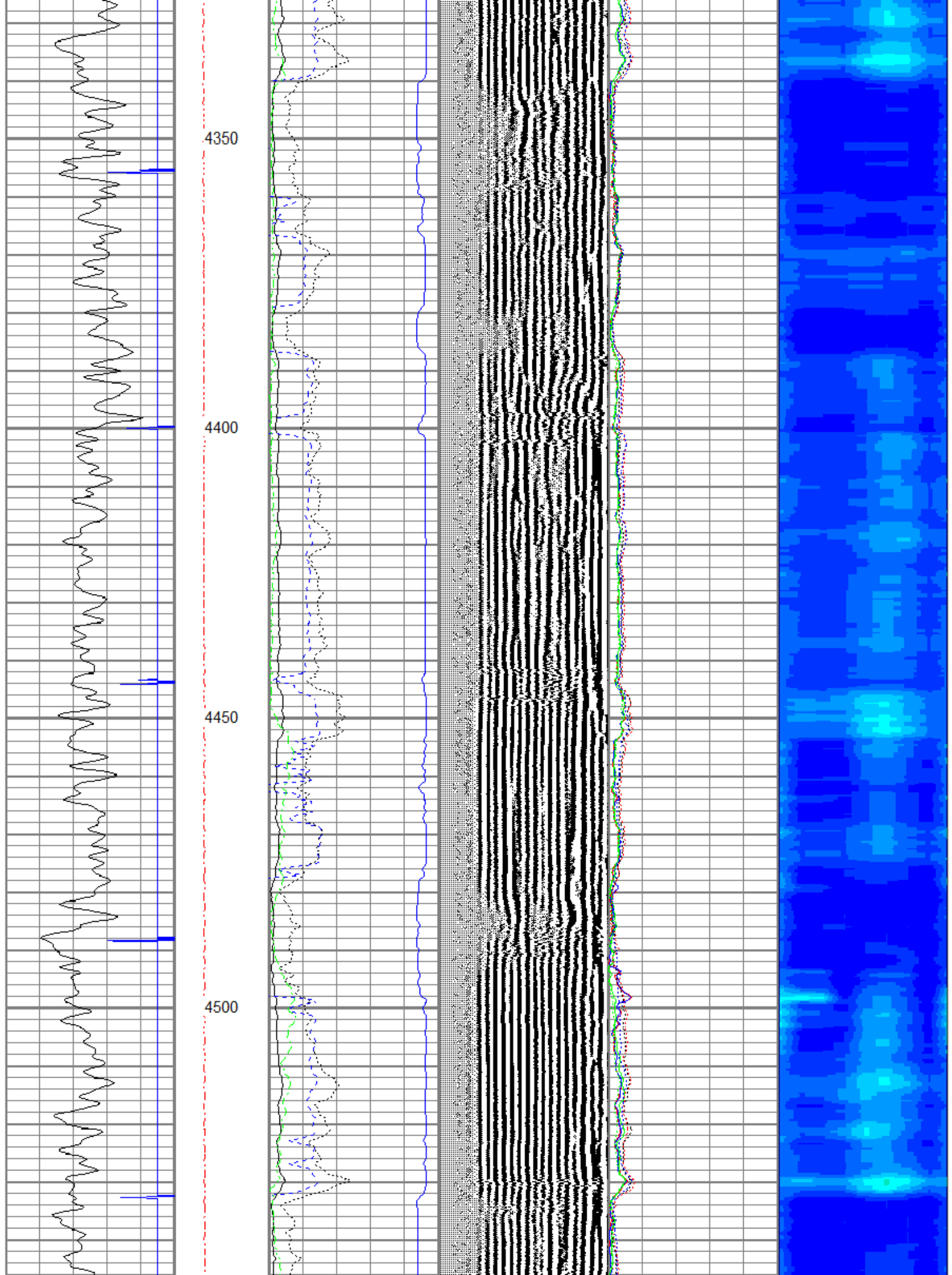


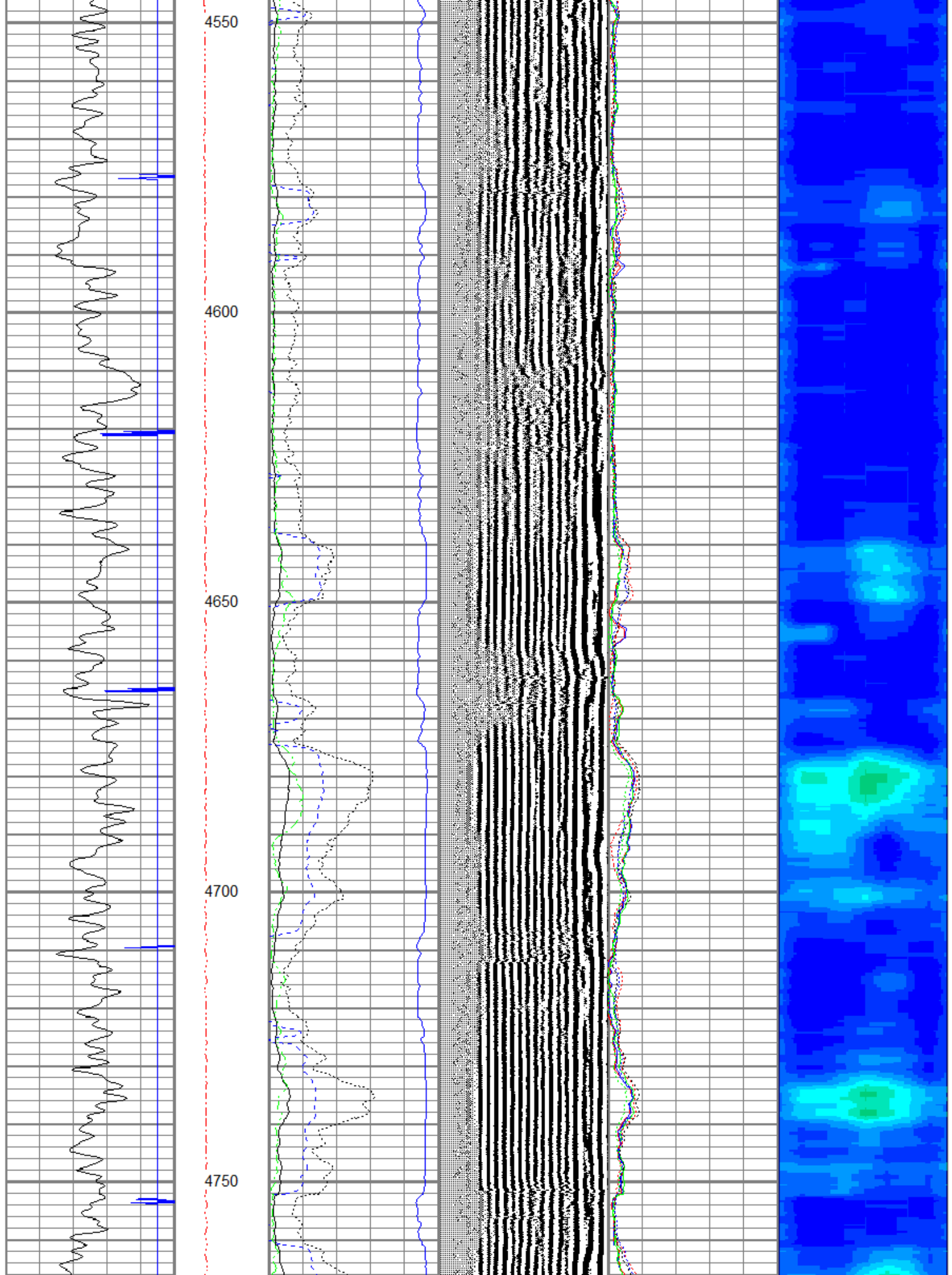


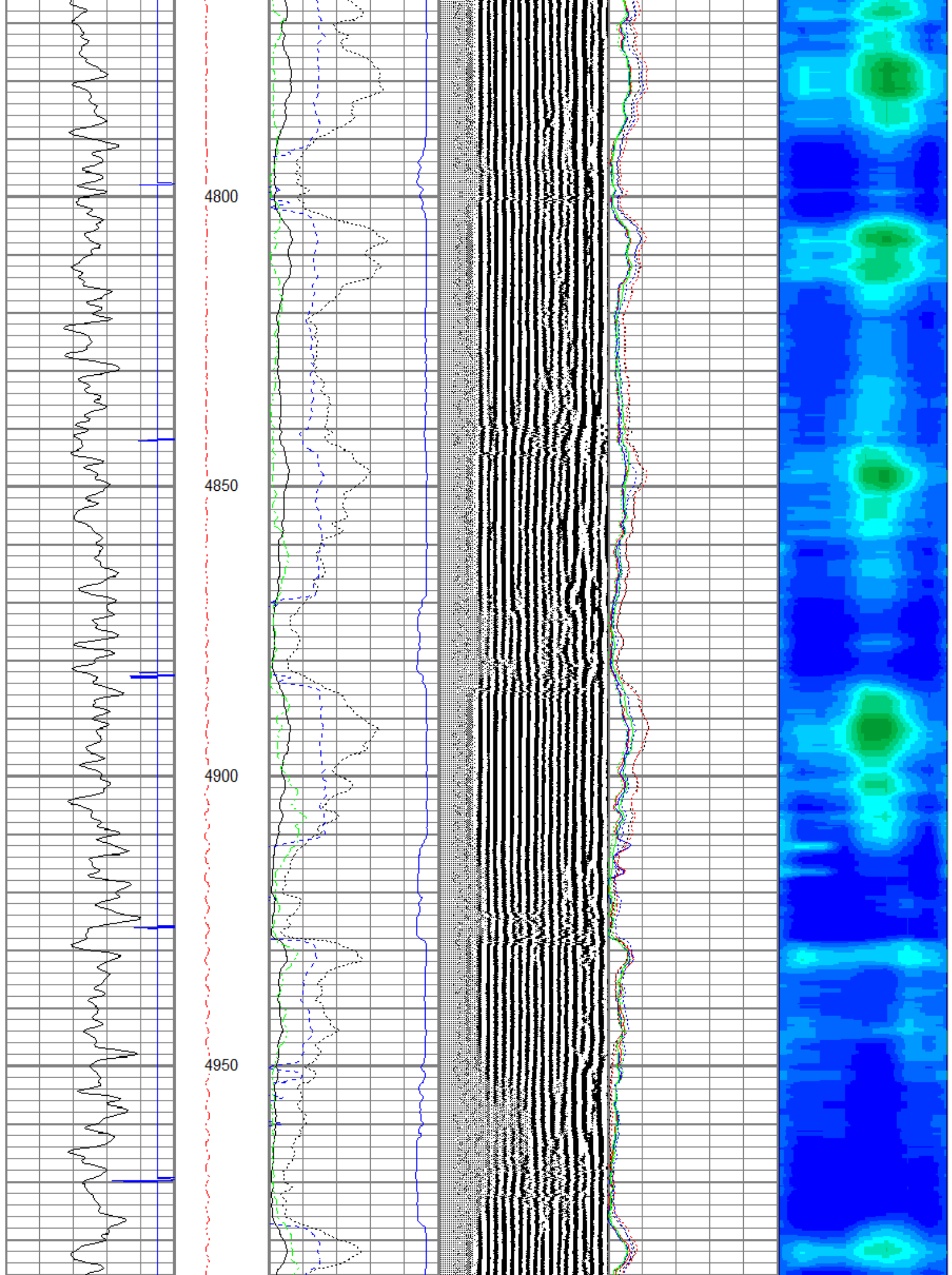


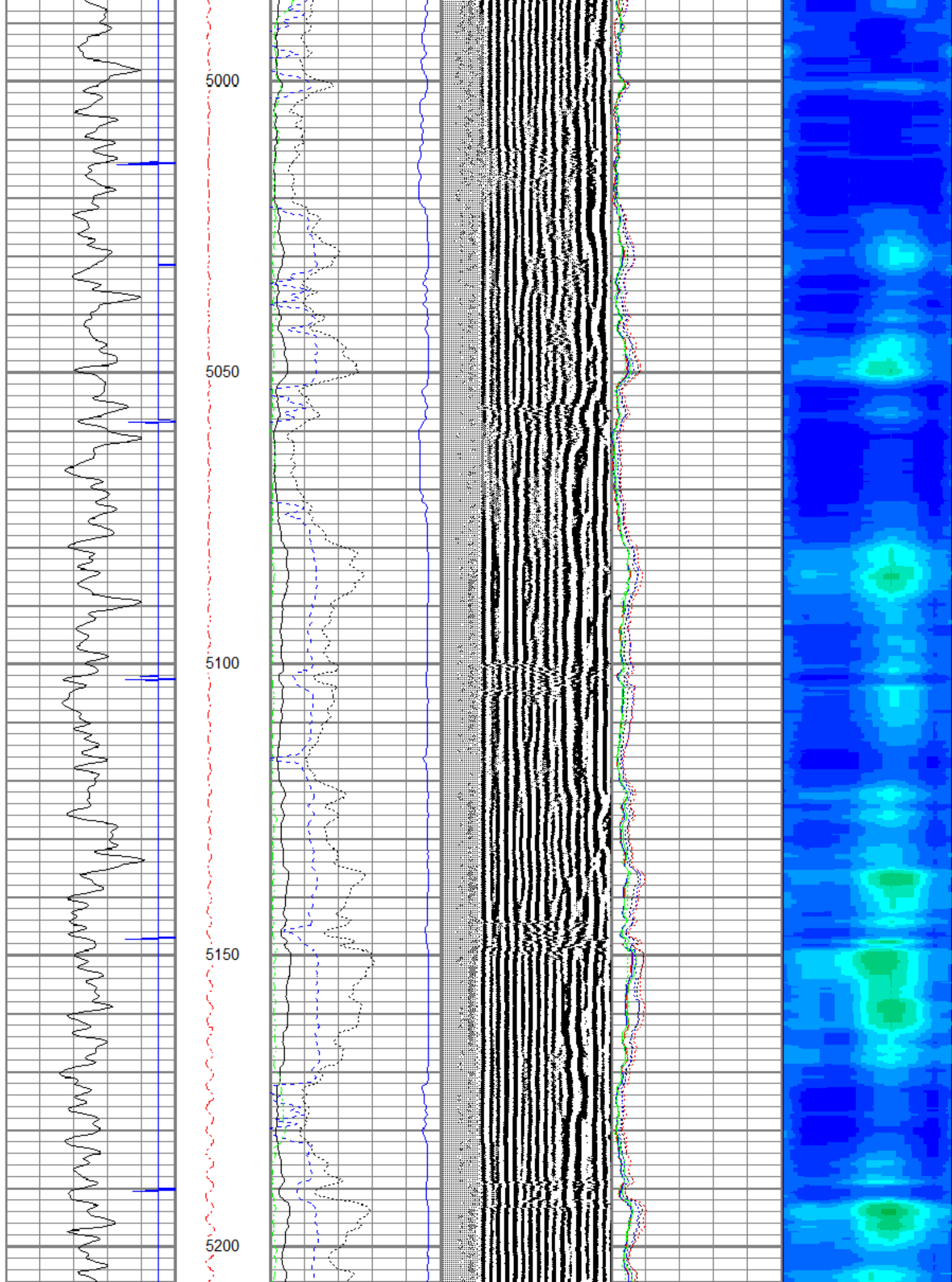


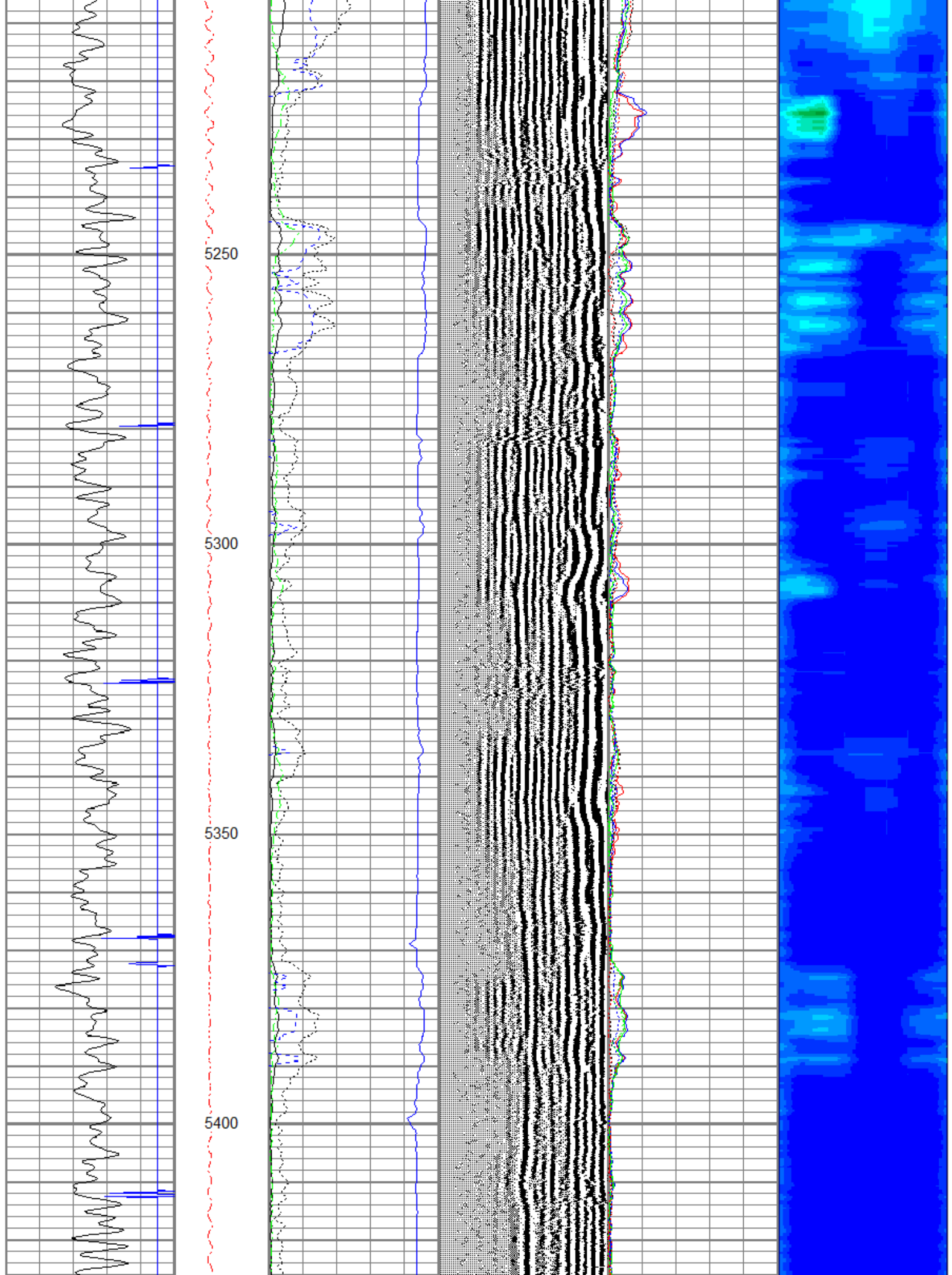


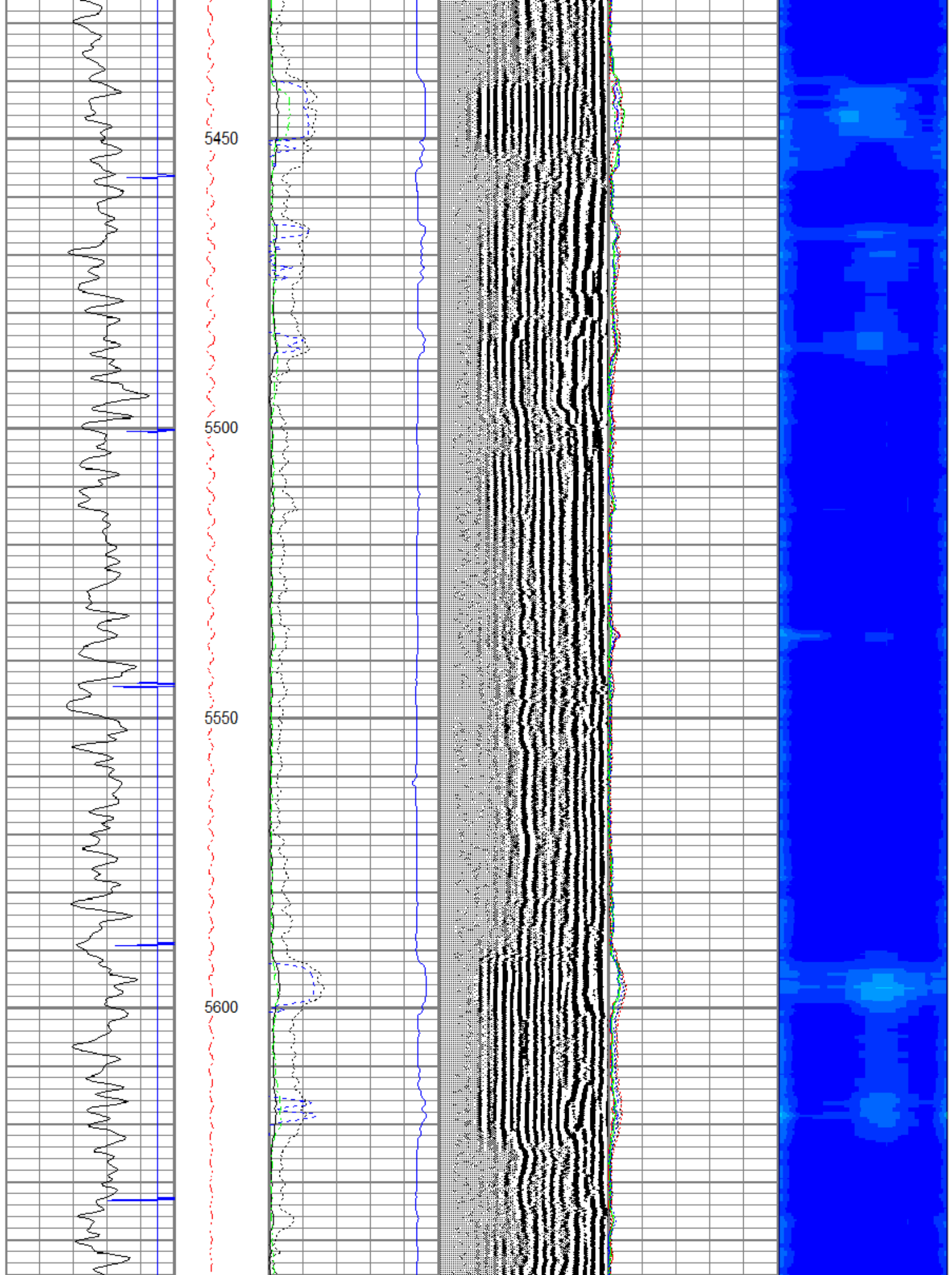


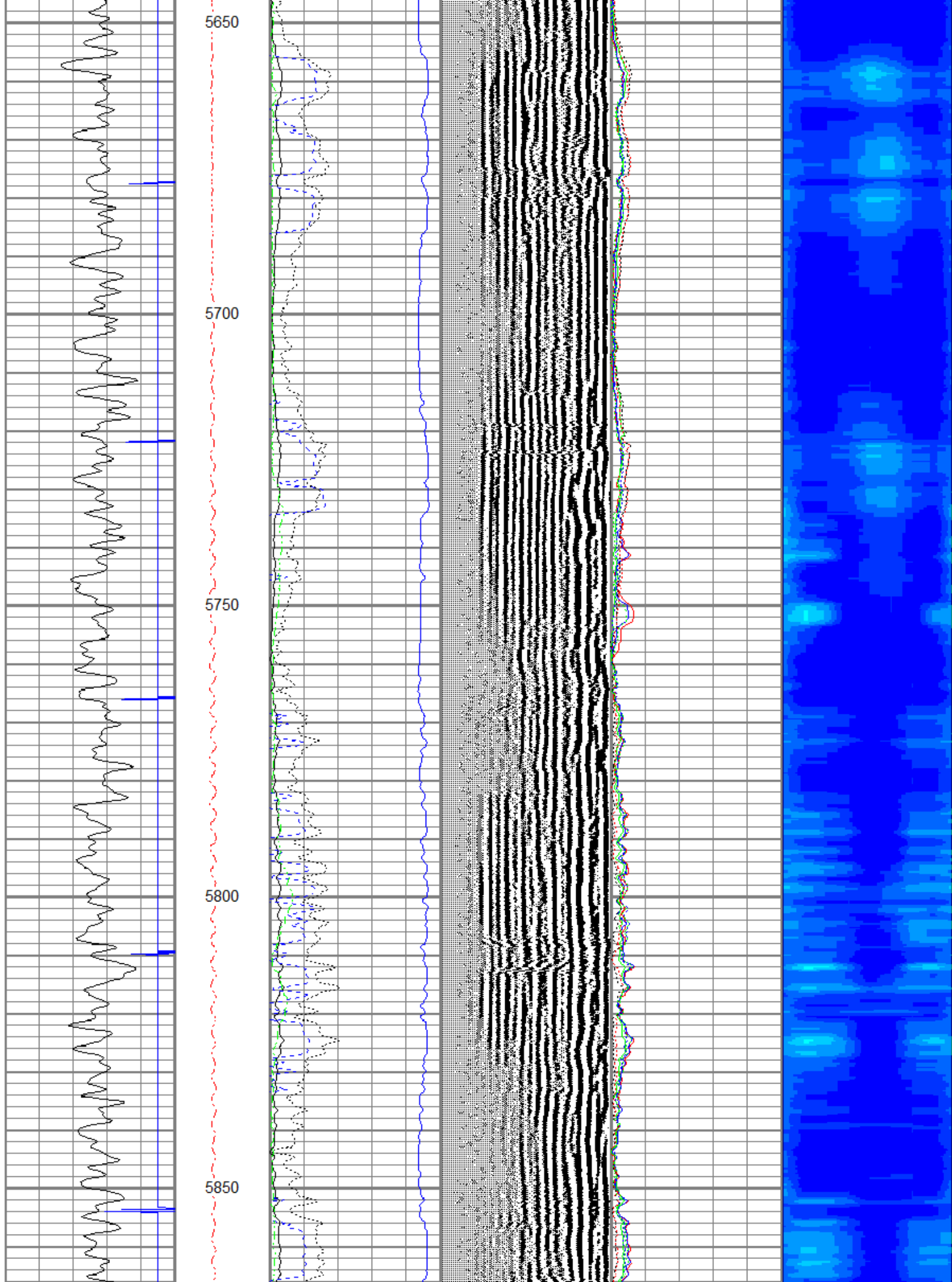


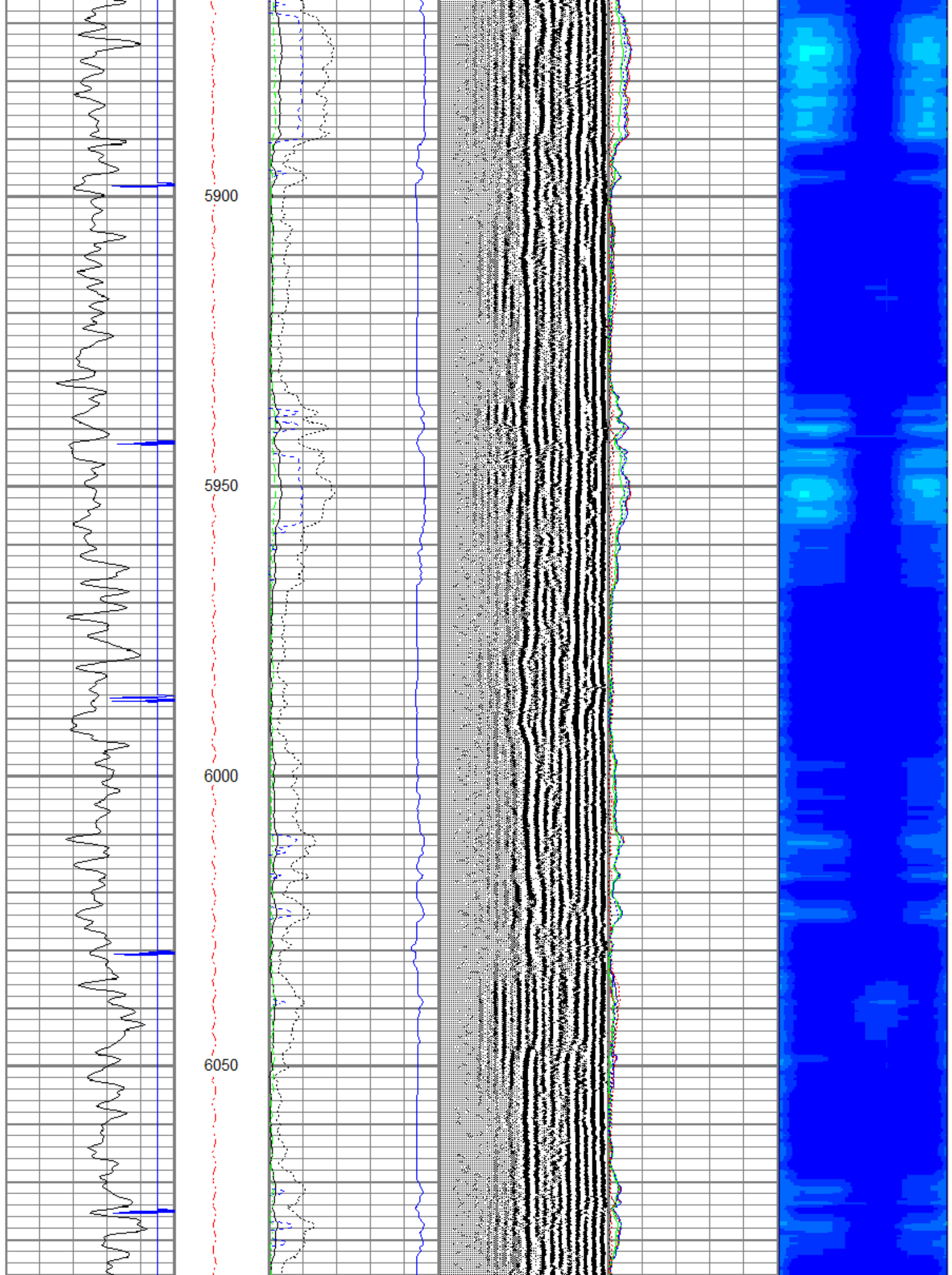


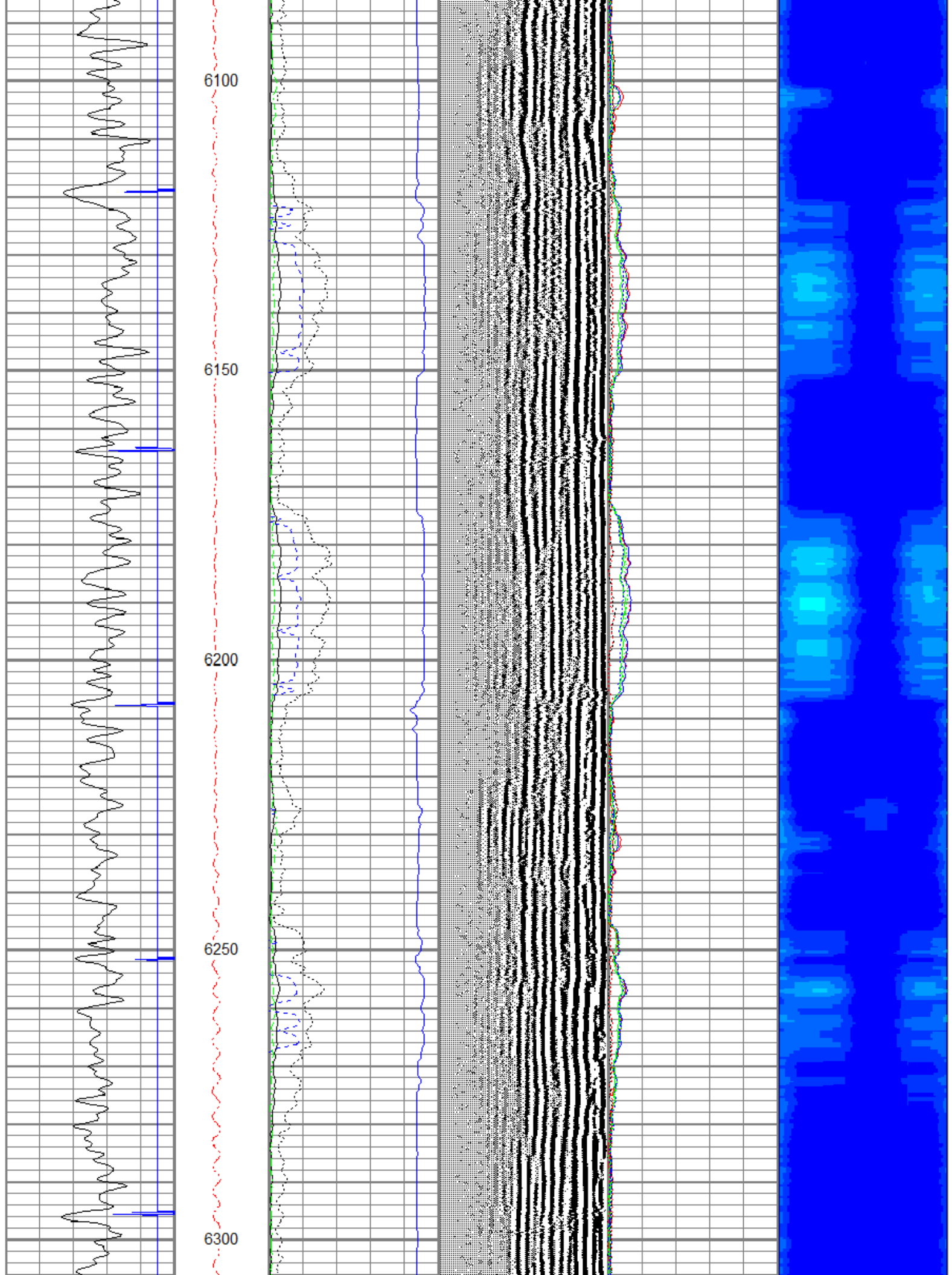


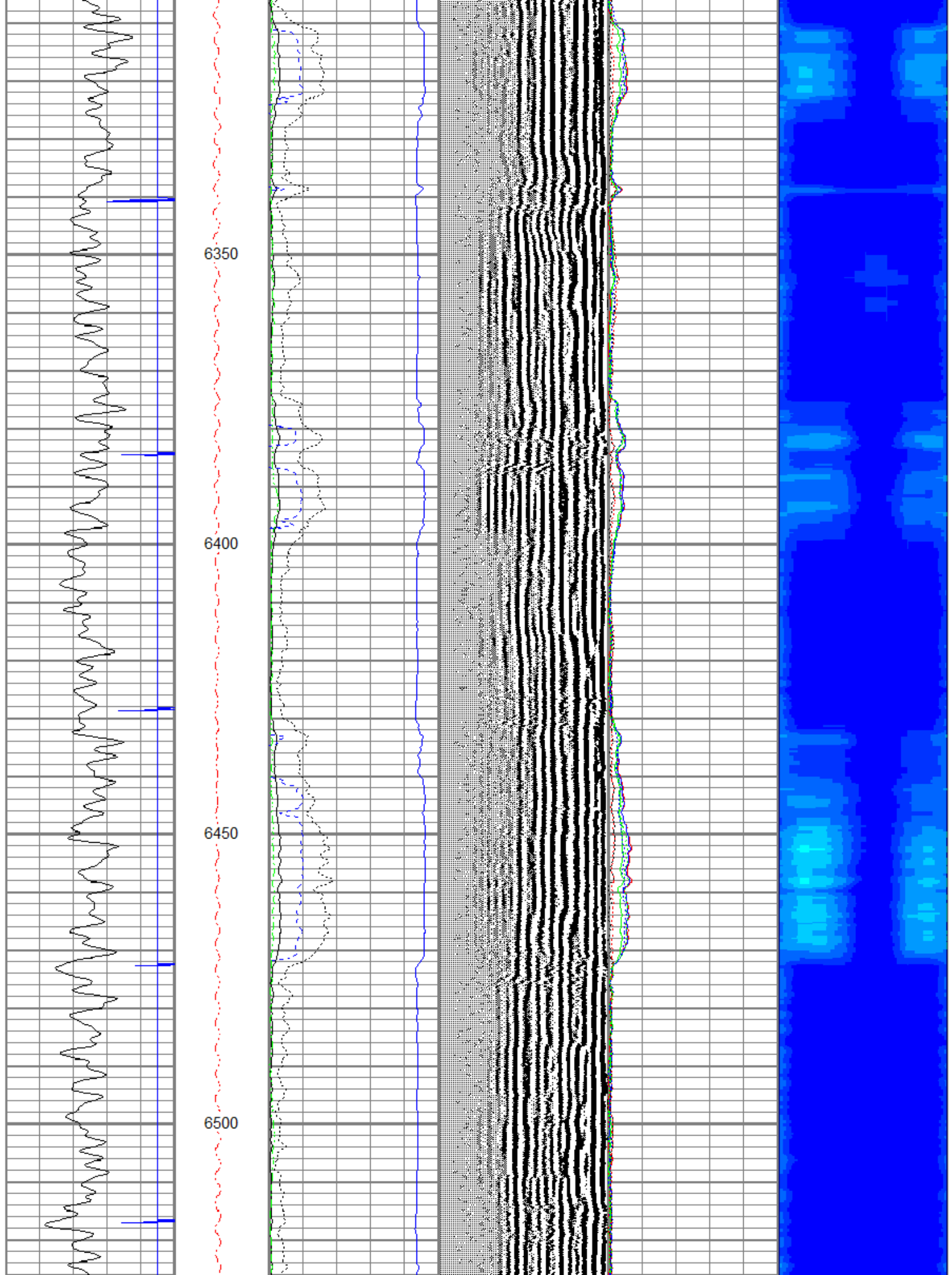


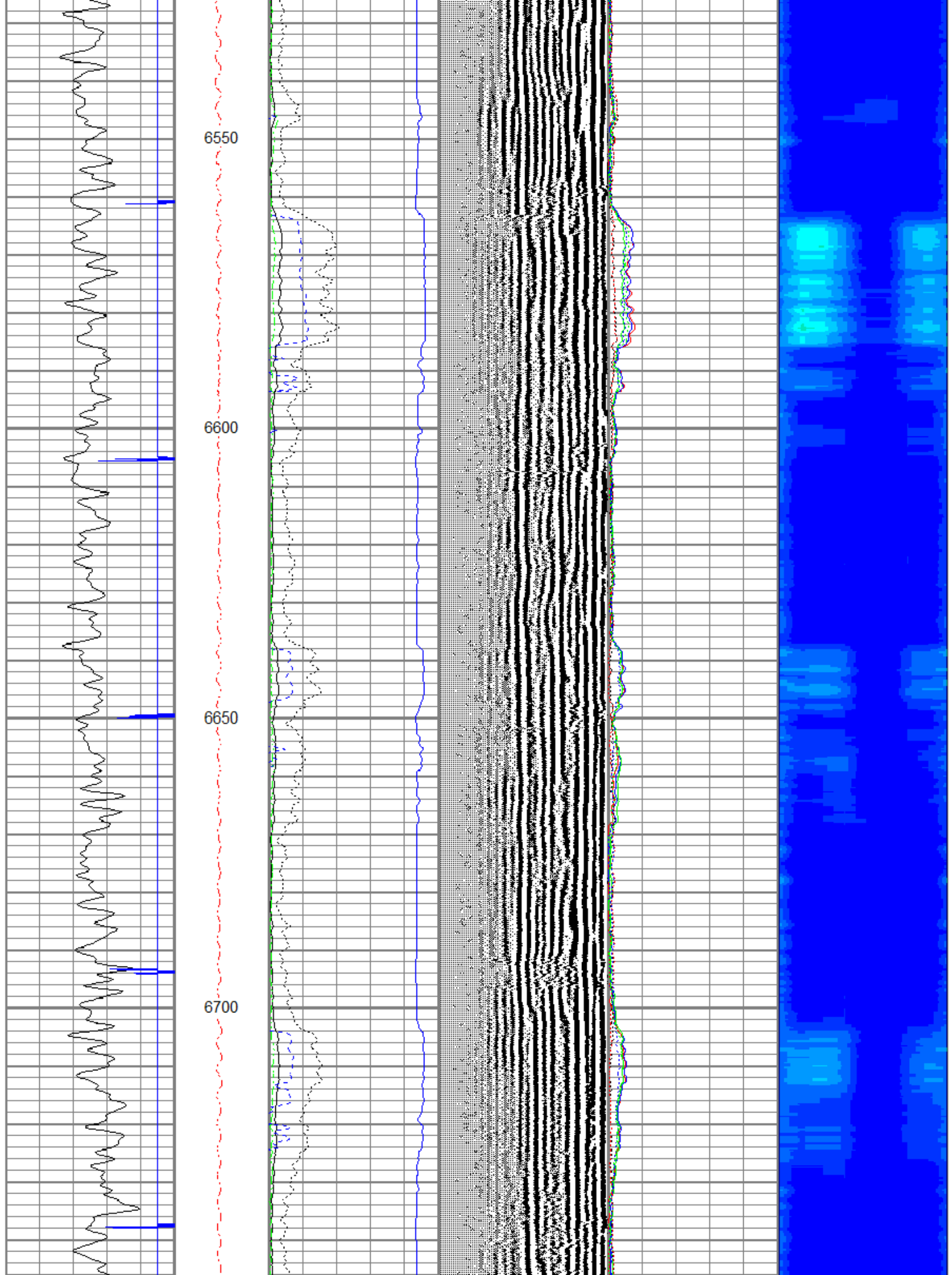


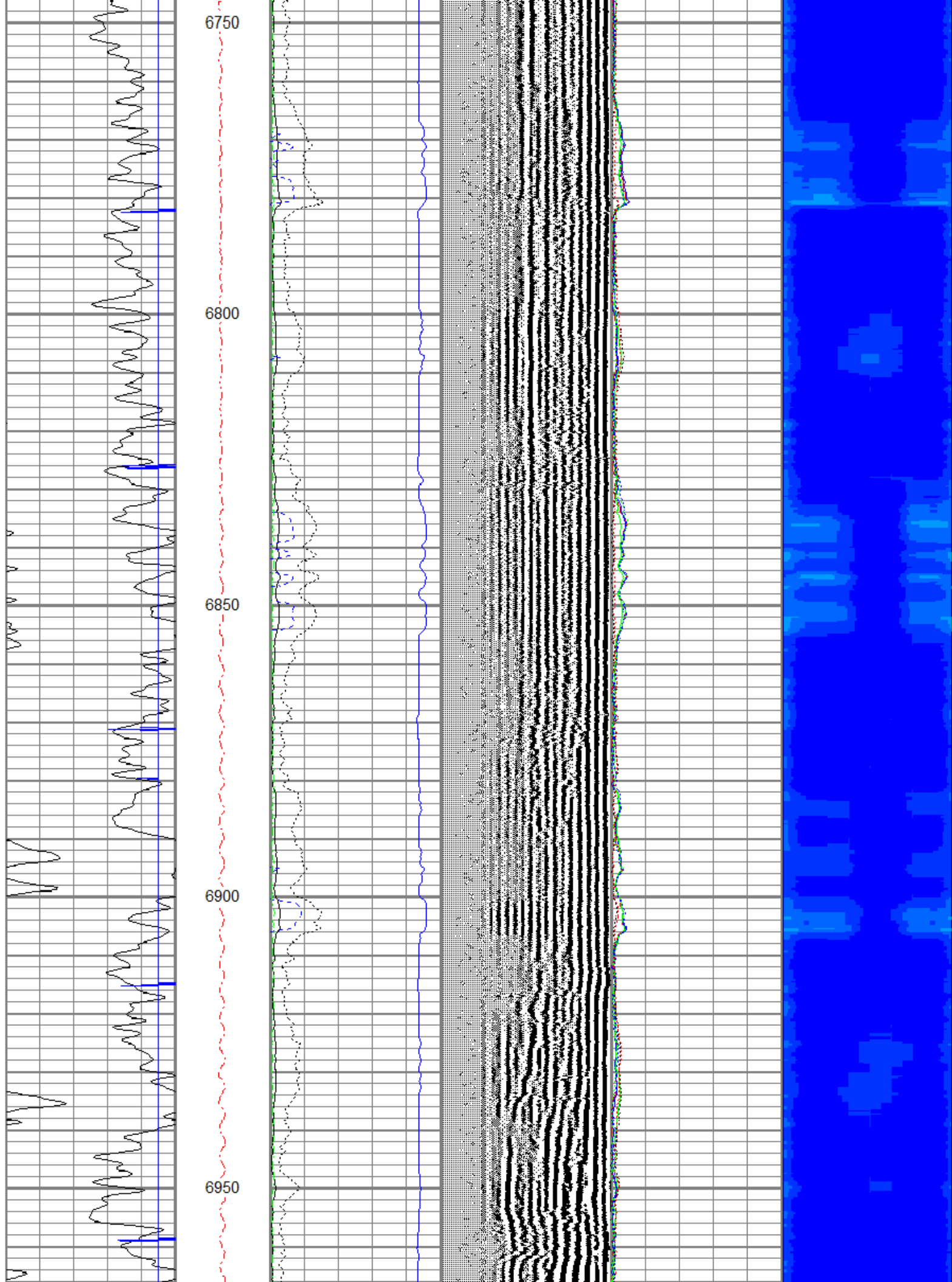


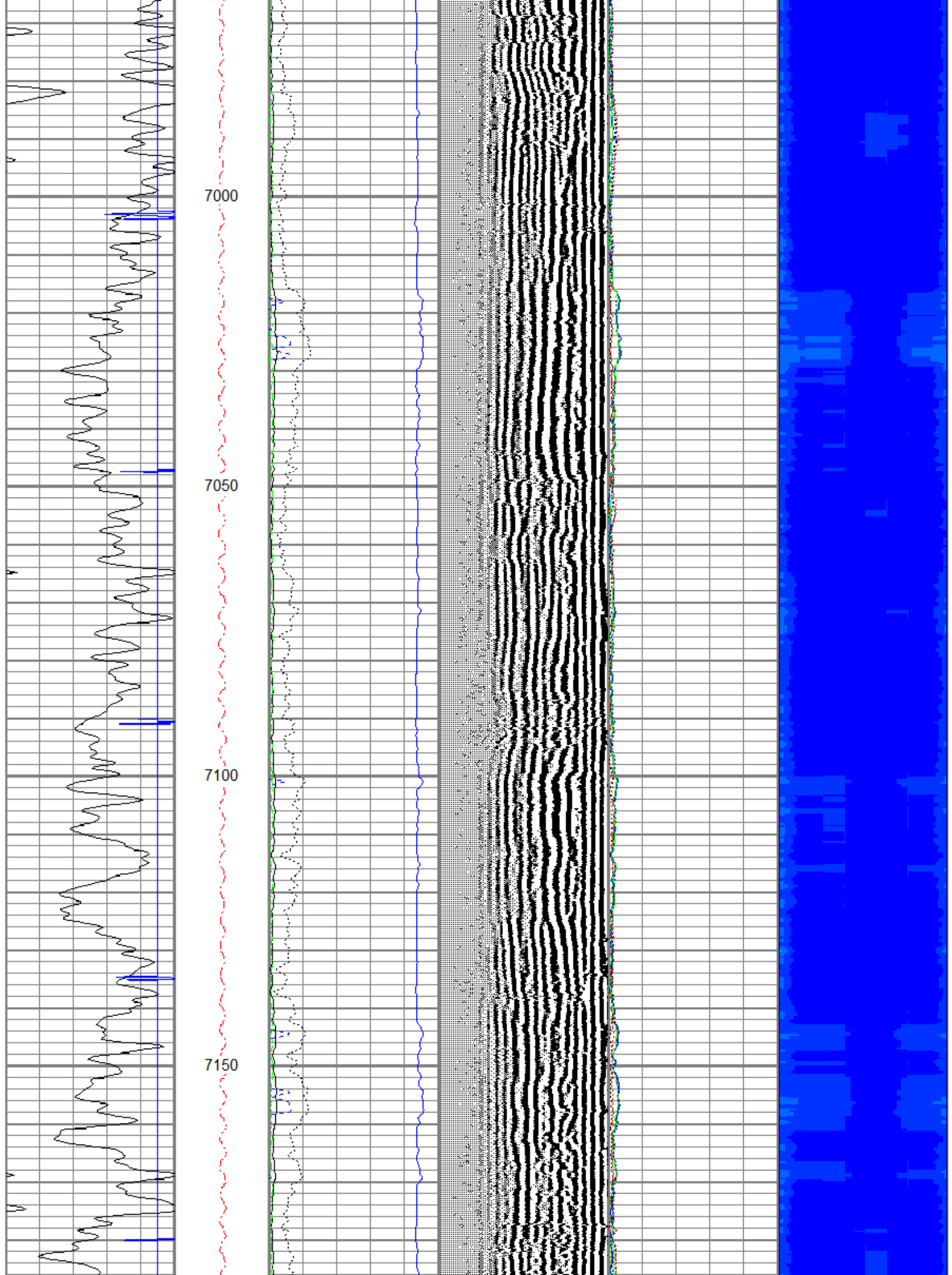


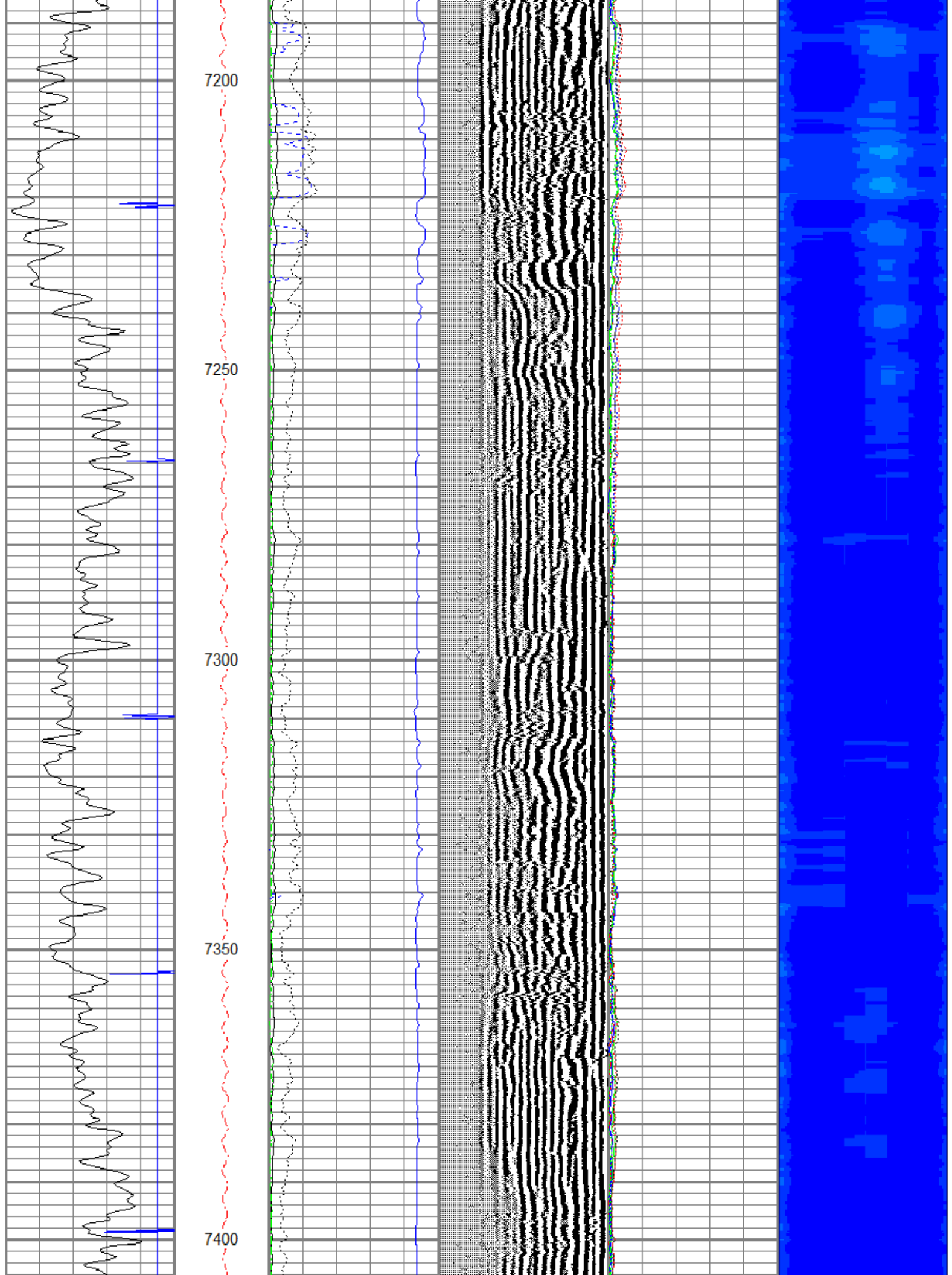


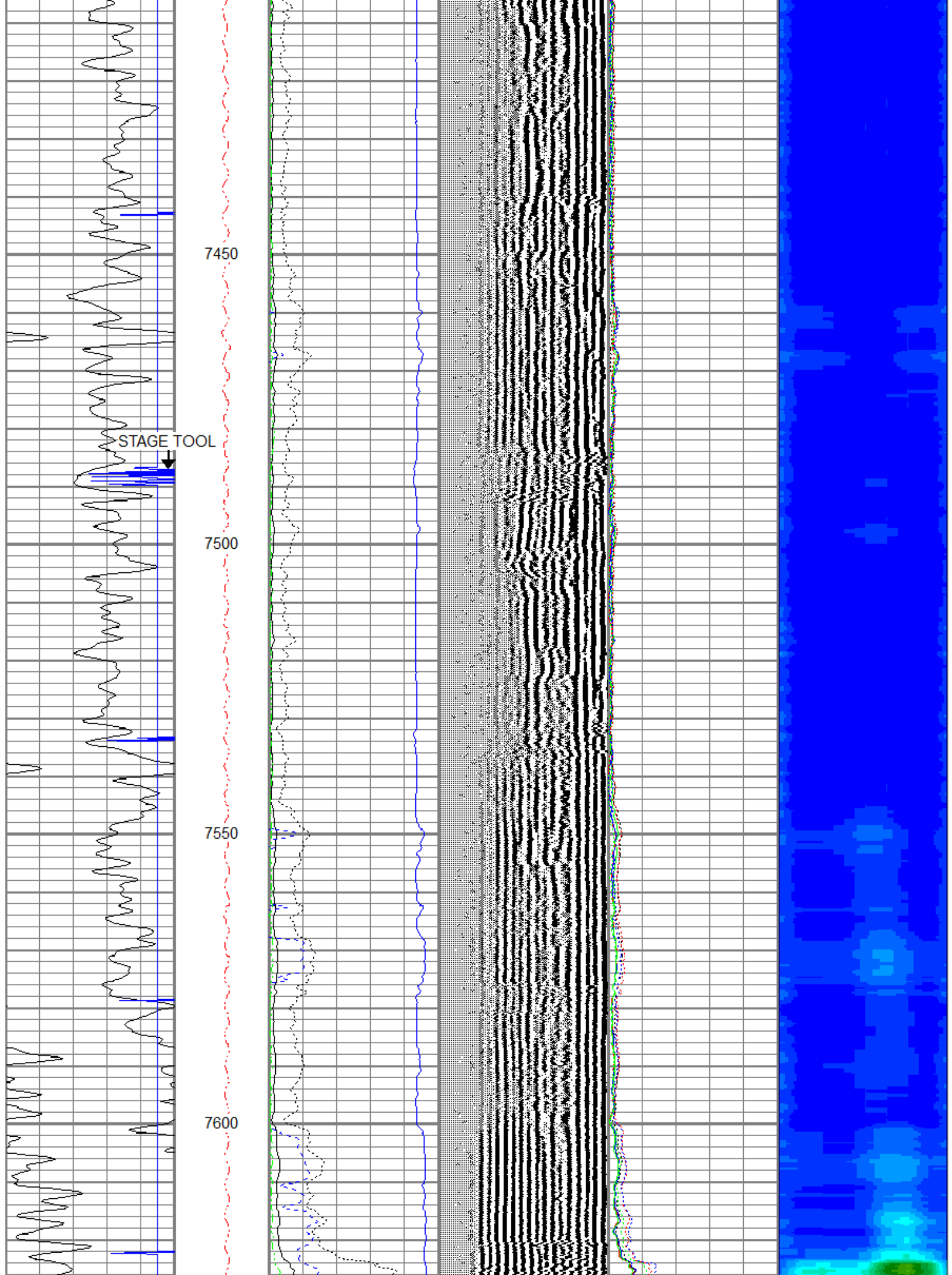


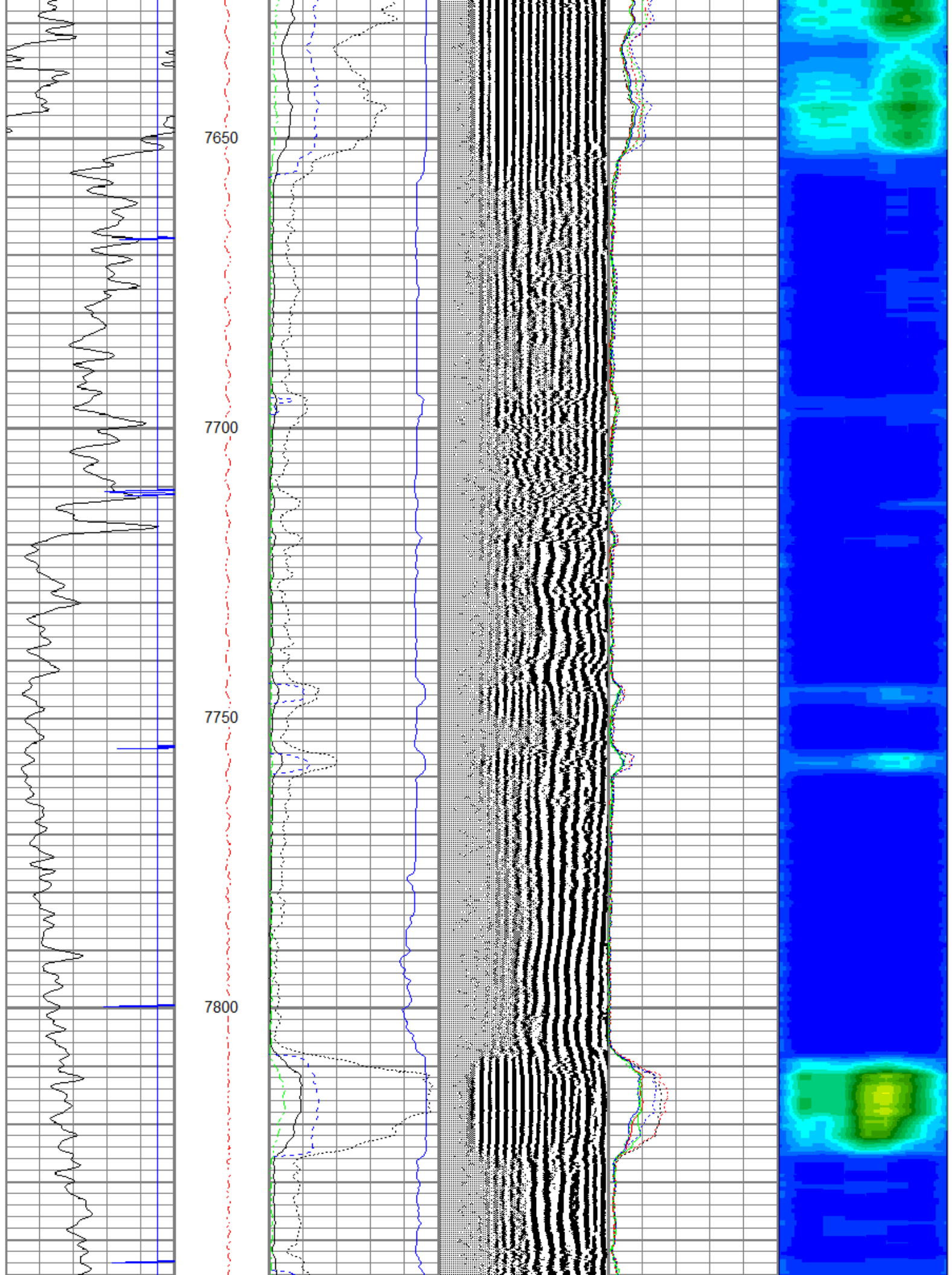


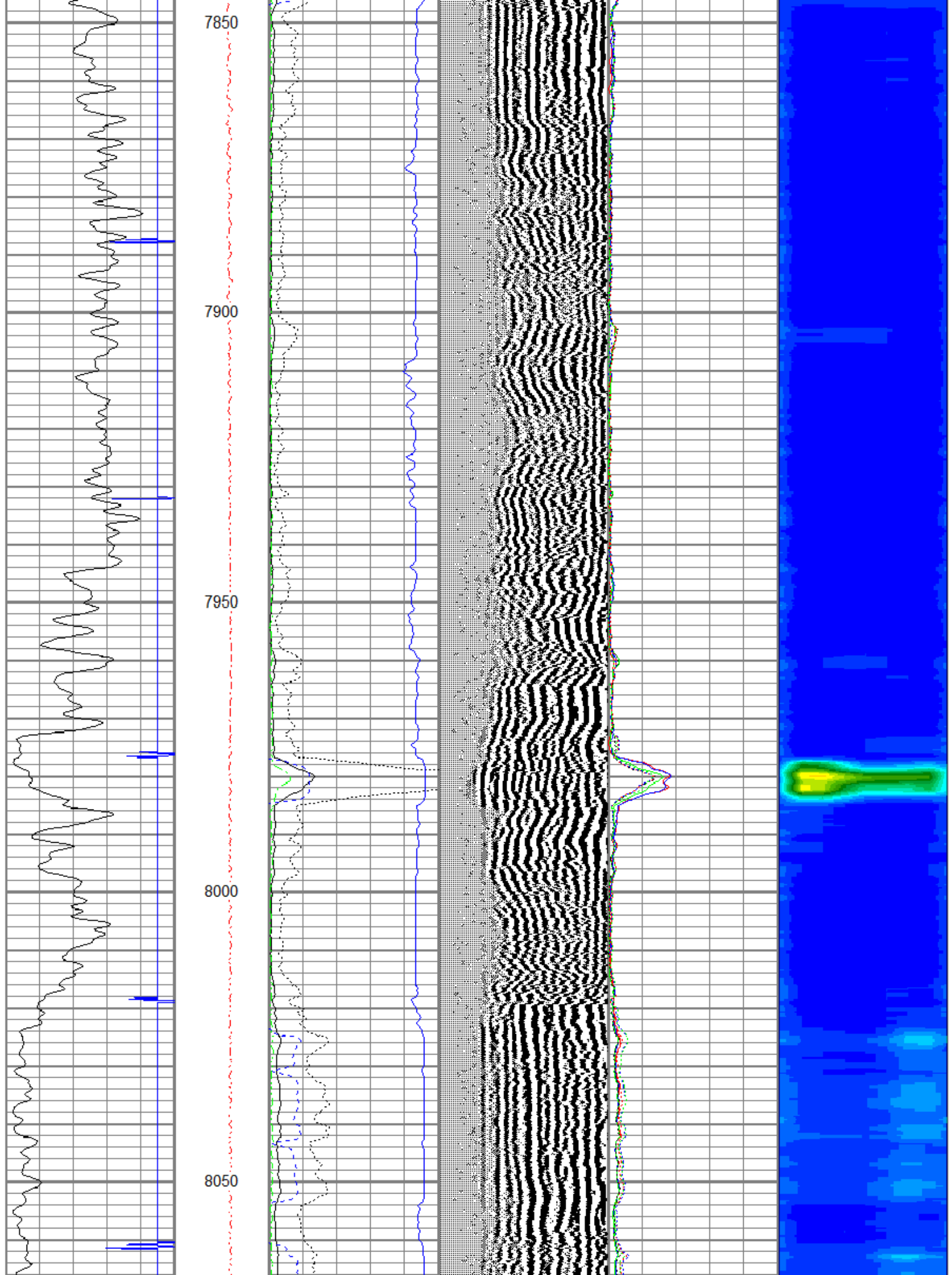


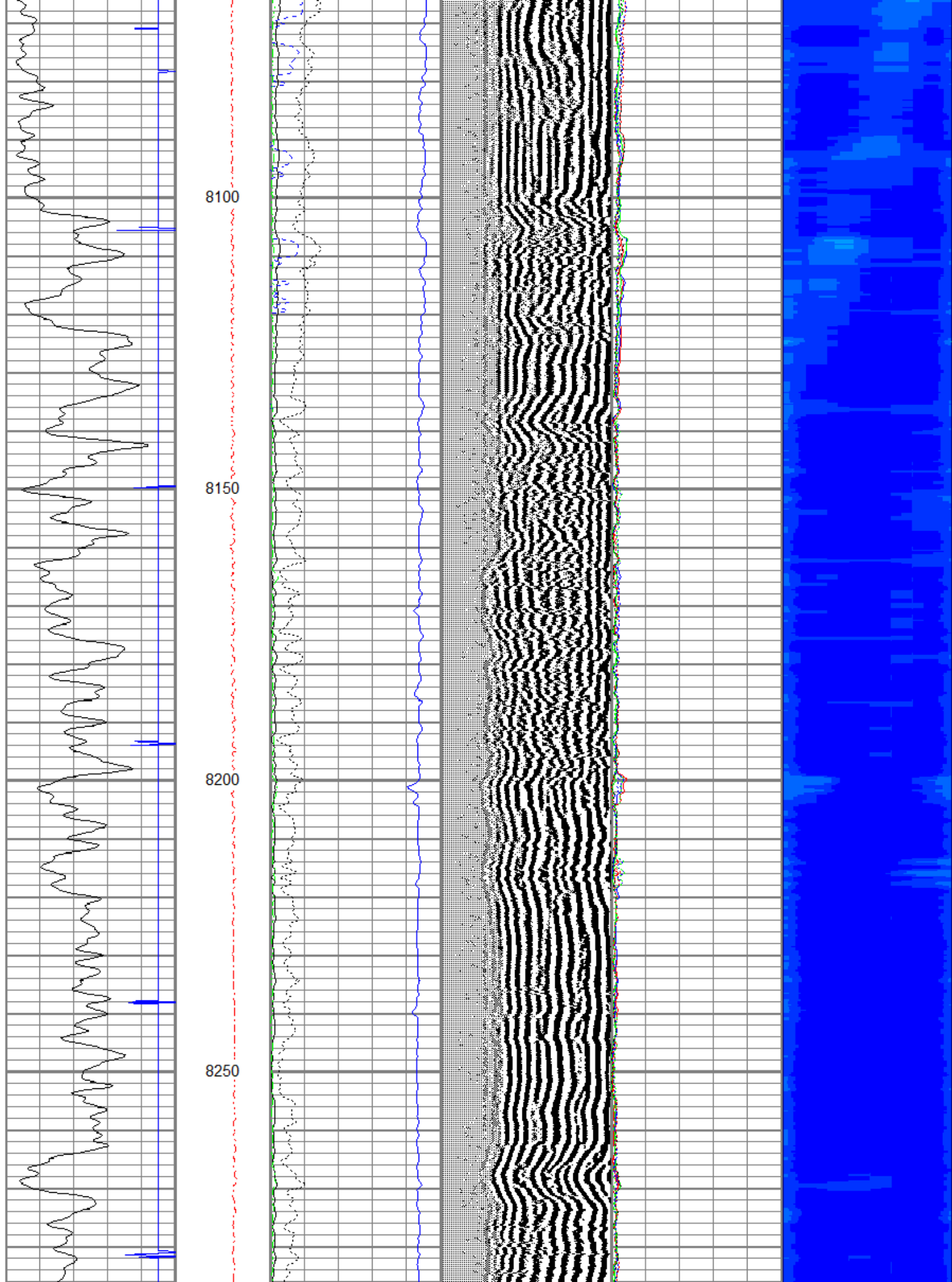


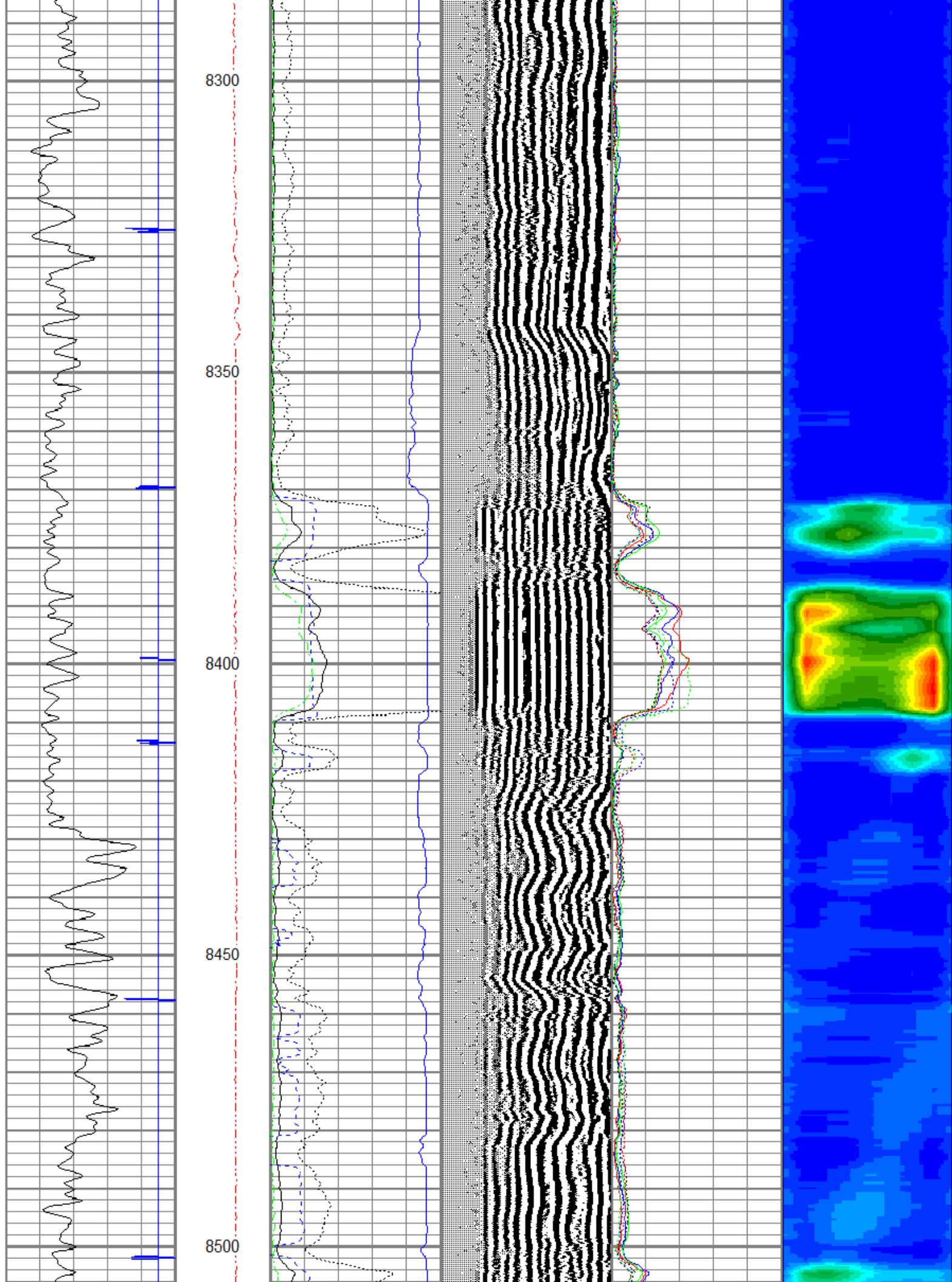


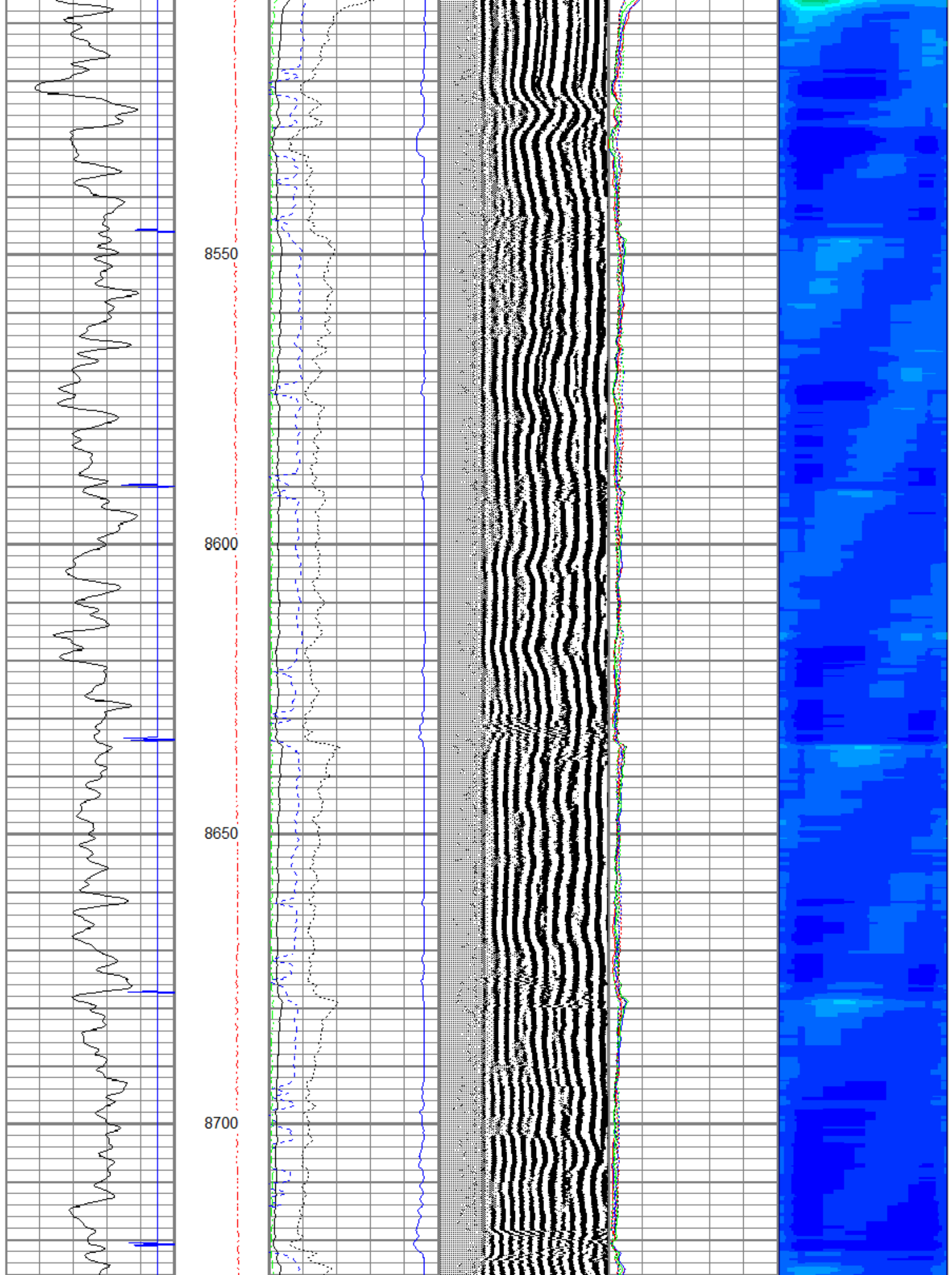


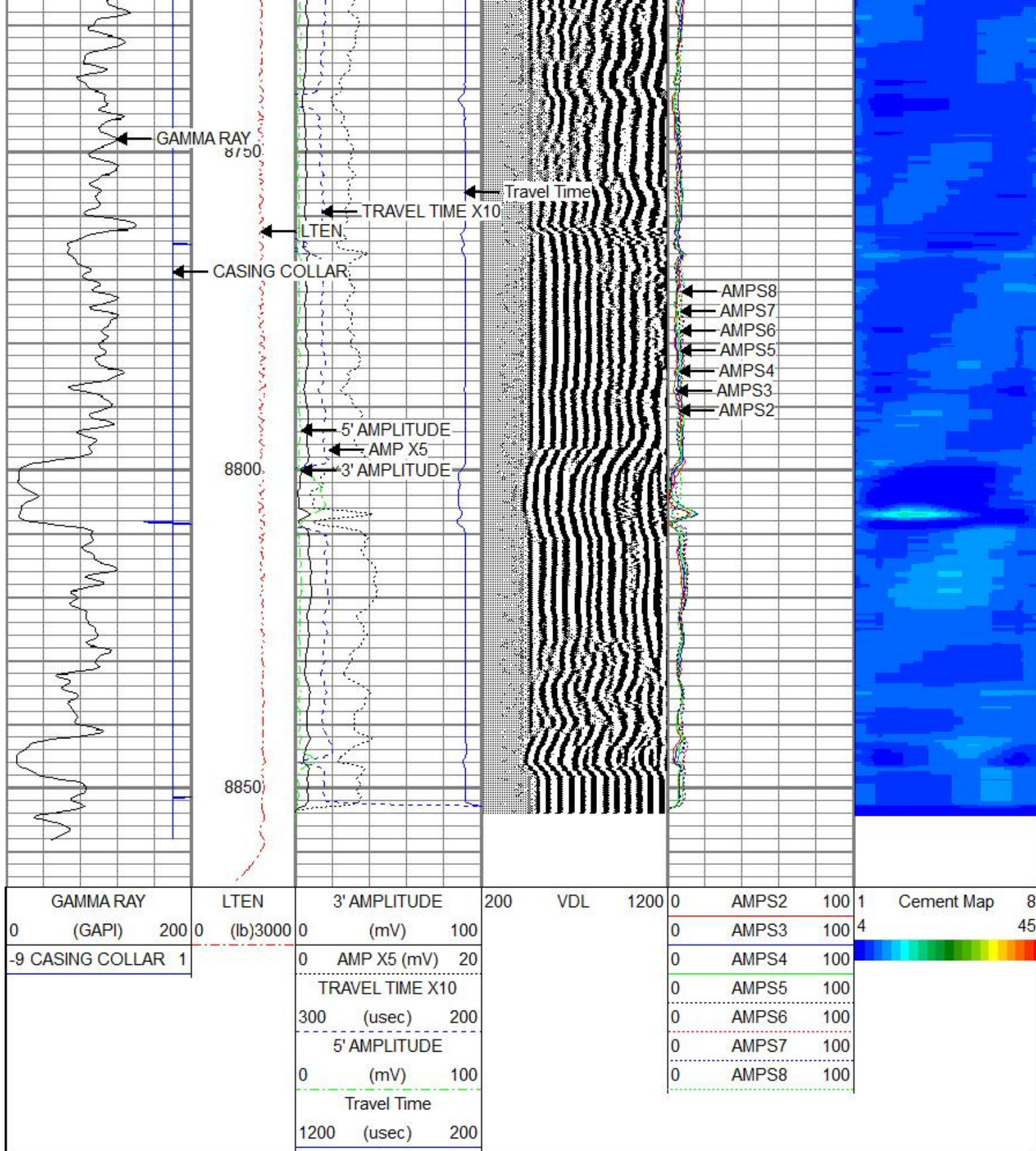










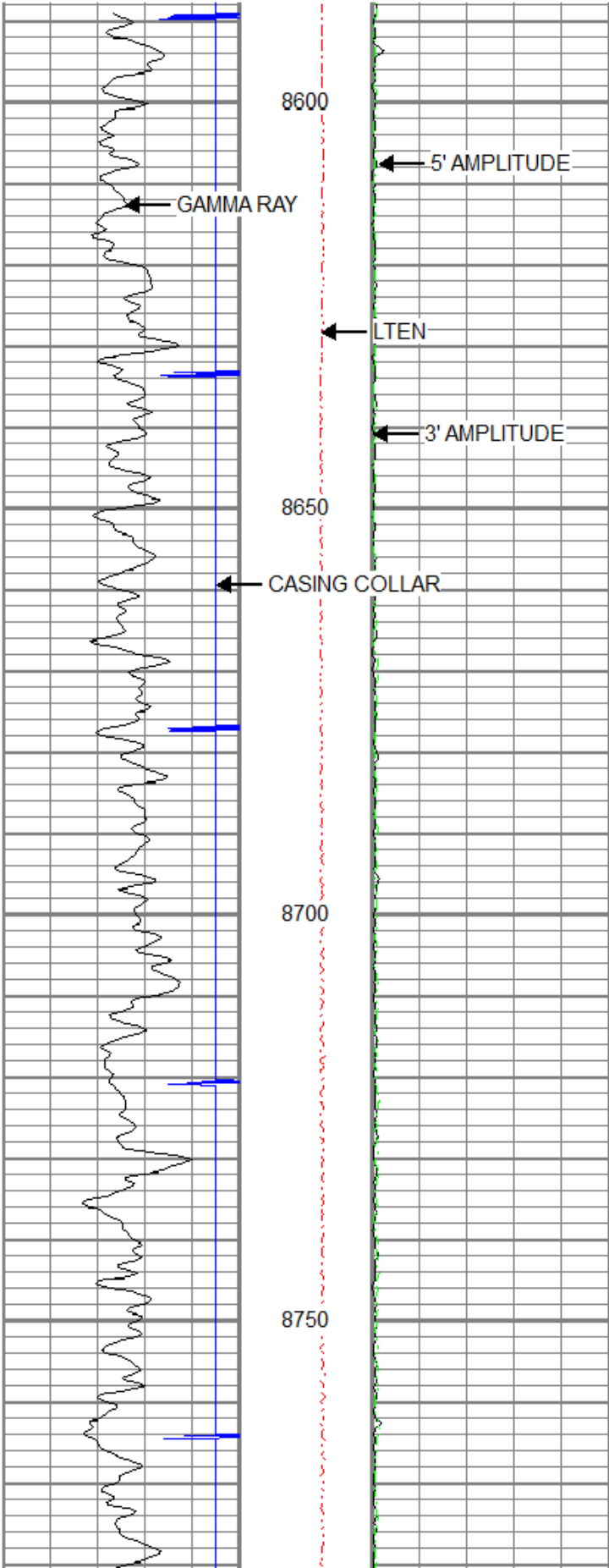


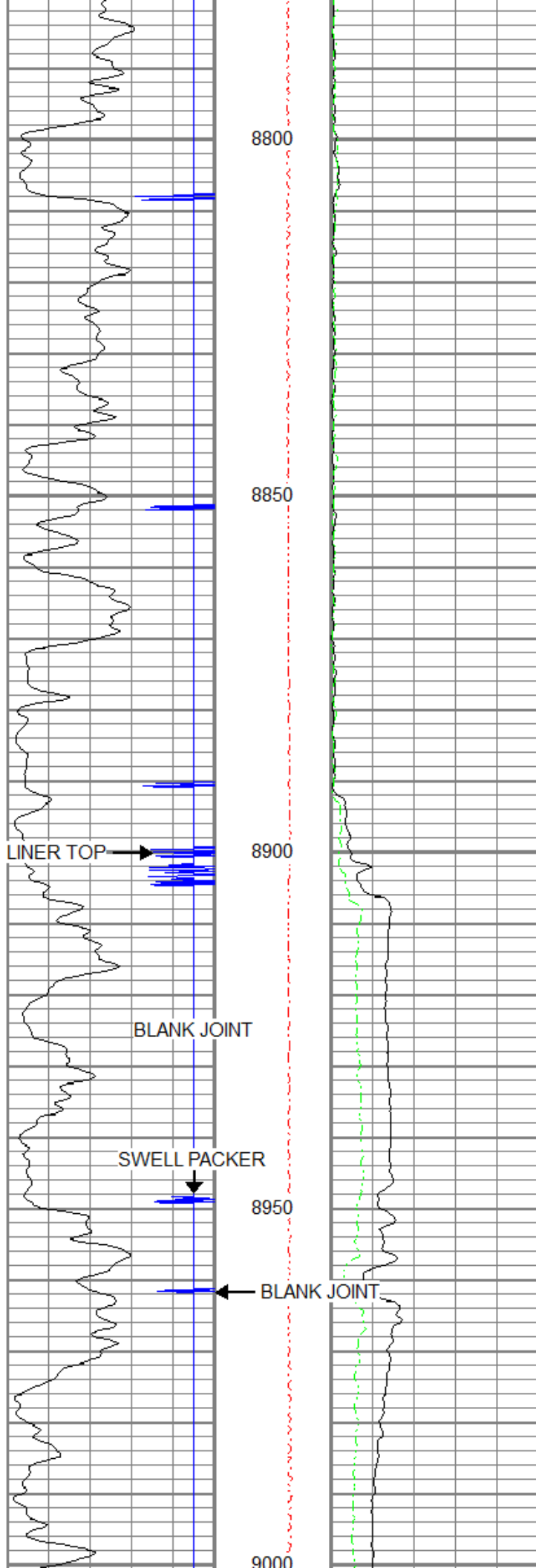
CORRELATION PASS

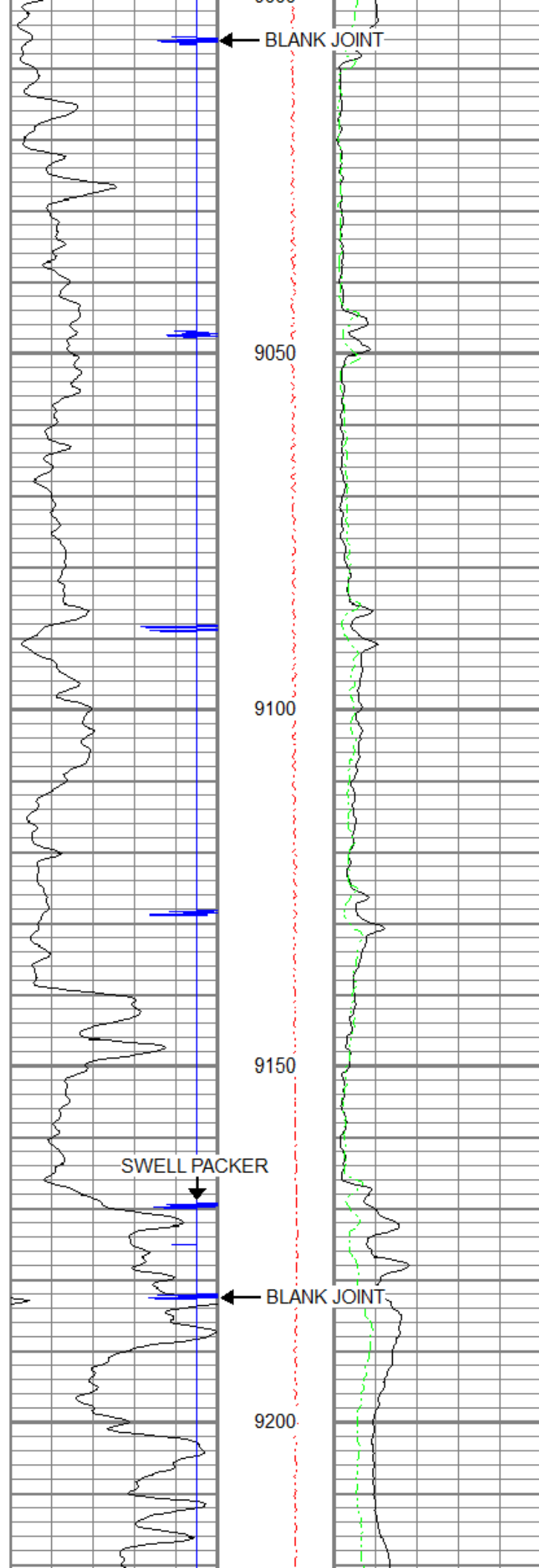
5" = 100'

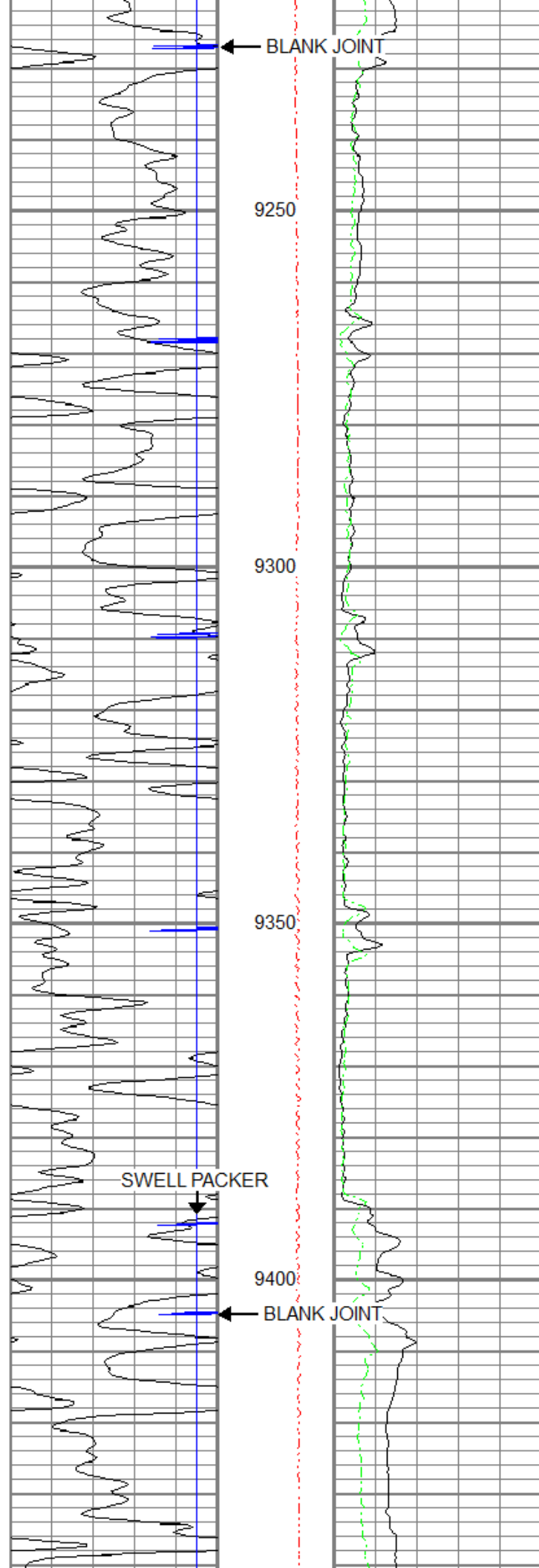
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 Presentation Format: rst5inplo
 Dataset Creation: Fri Dec 05 12:51:18 2014

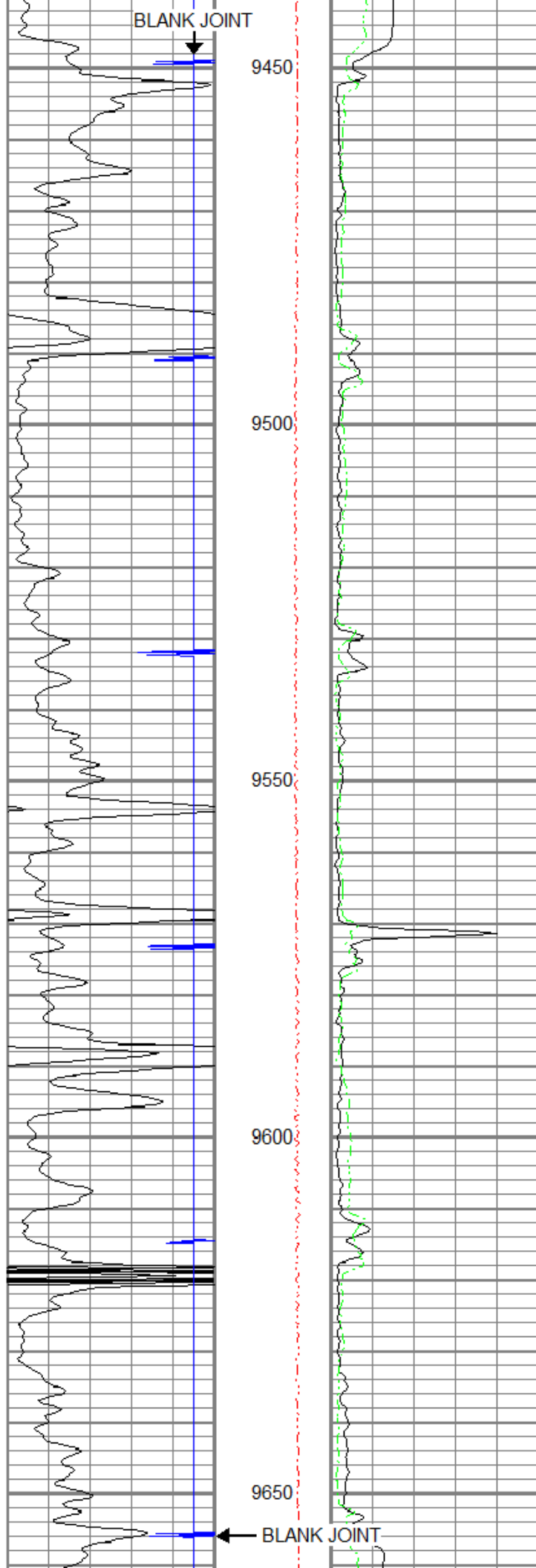
GAMMA RAY		LTEN	3' AMPLITUDE
0	(GAPI) 200	0 (lb)3000	0 (mV) 100
-9 CASING COLLAR 1			5' AMPLITUDE
			0 (mV) 100

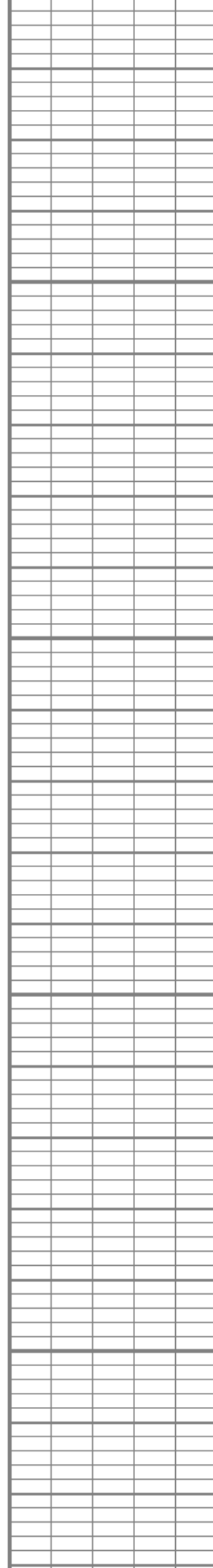
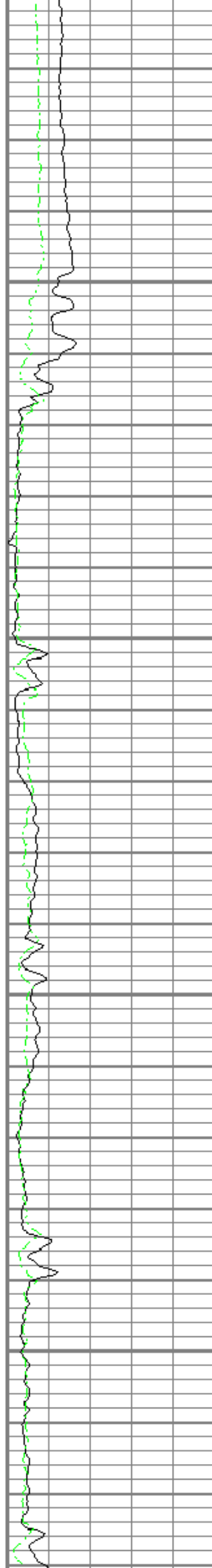
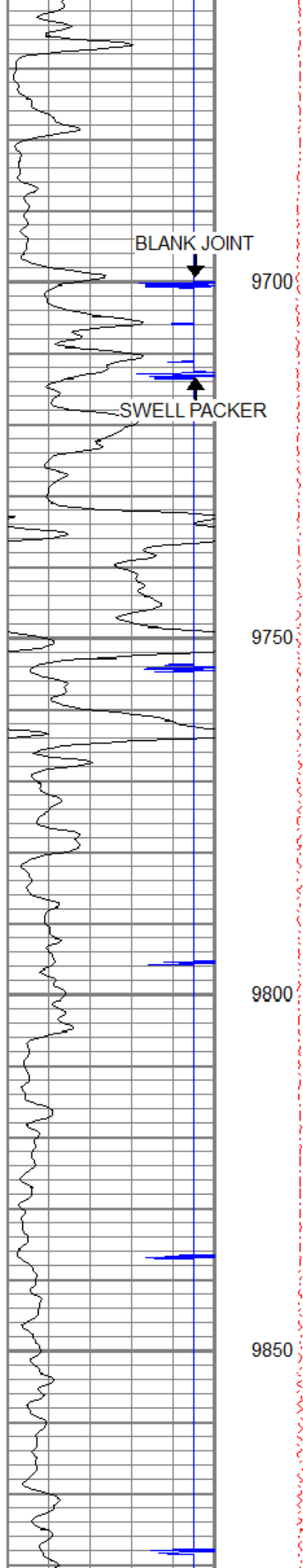


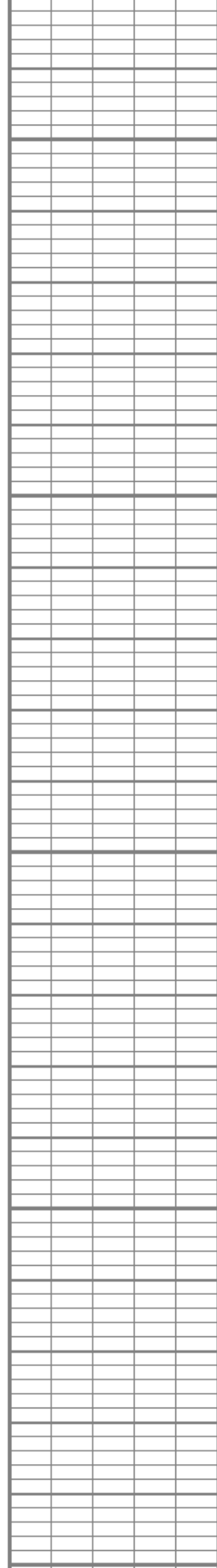
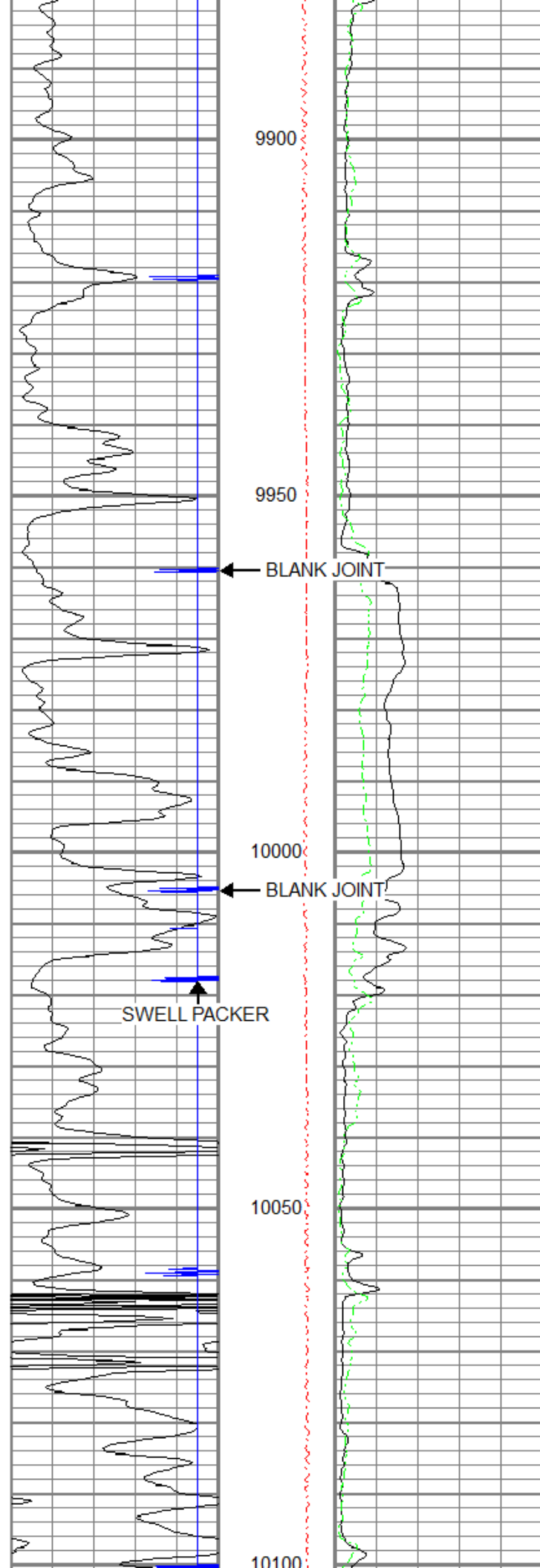


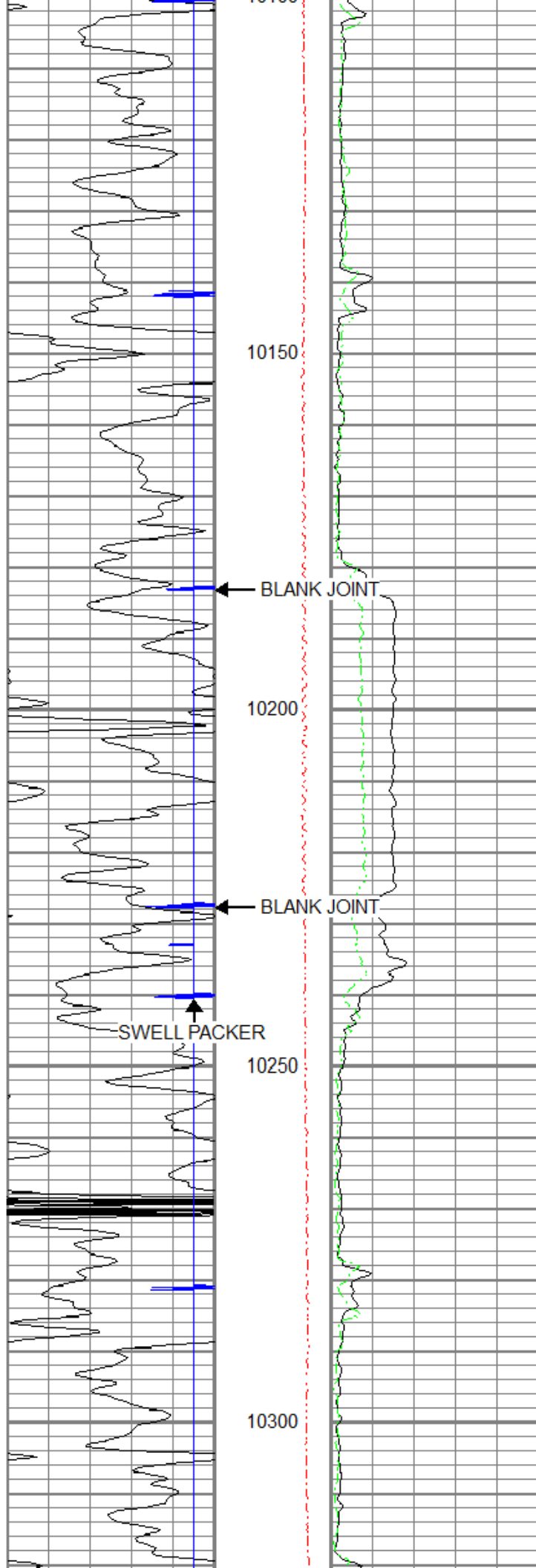


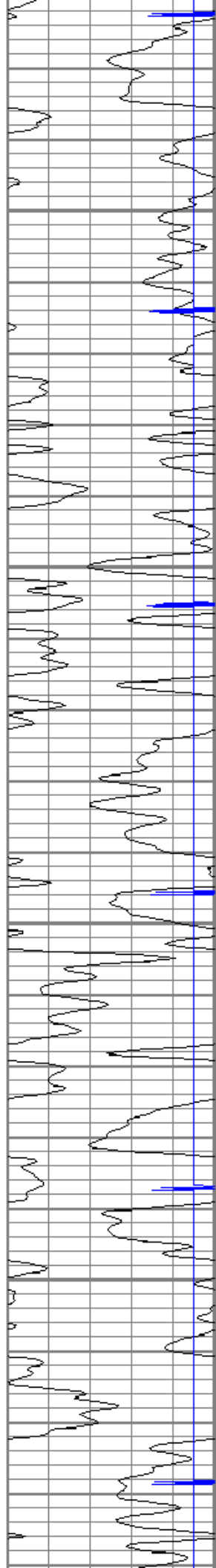










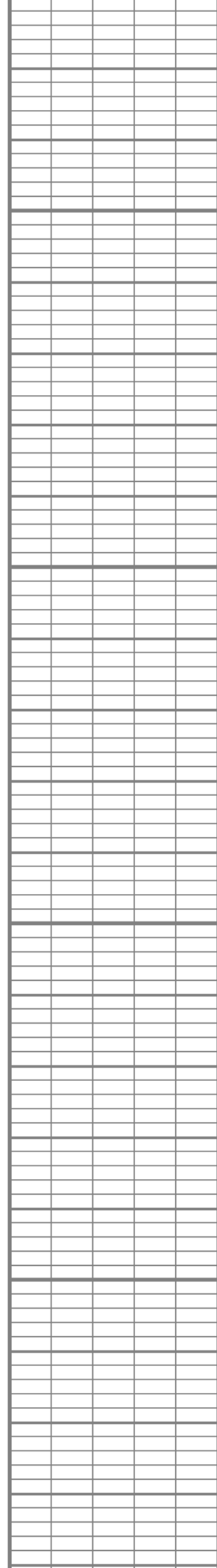
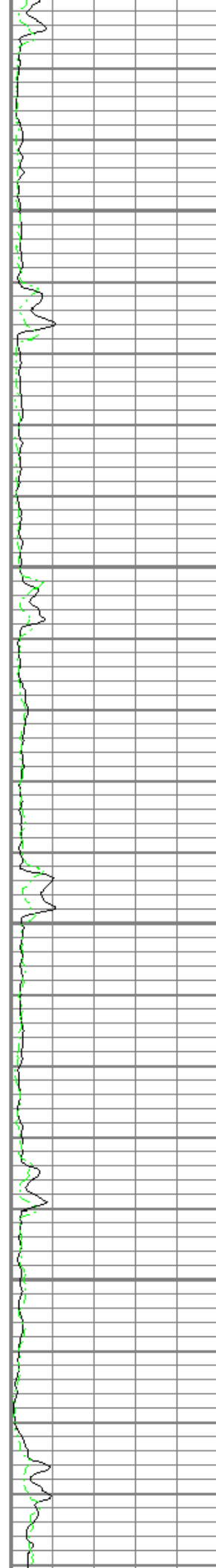


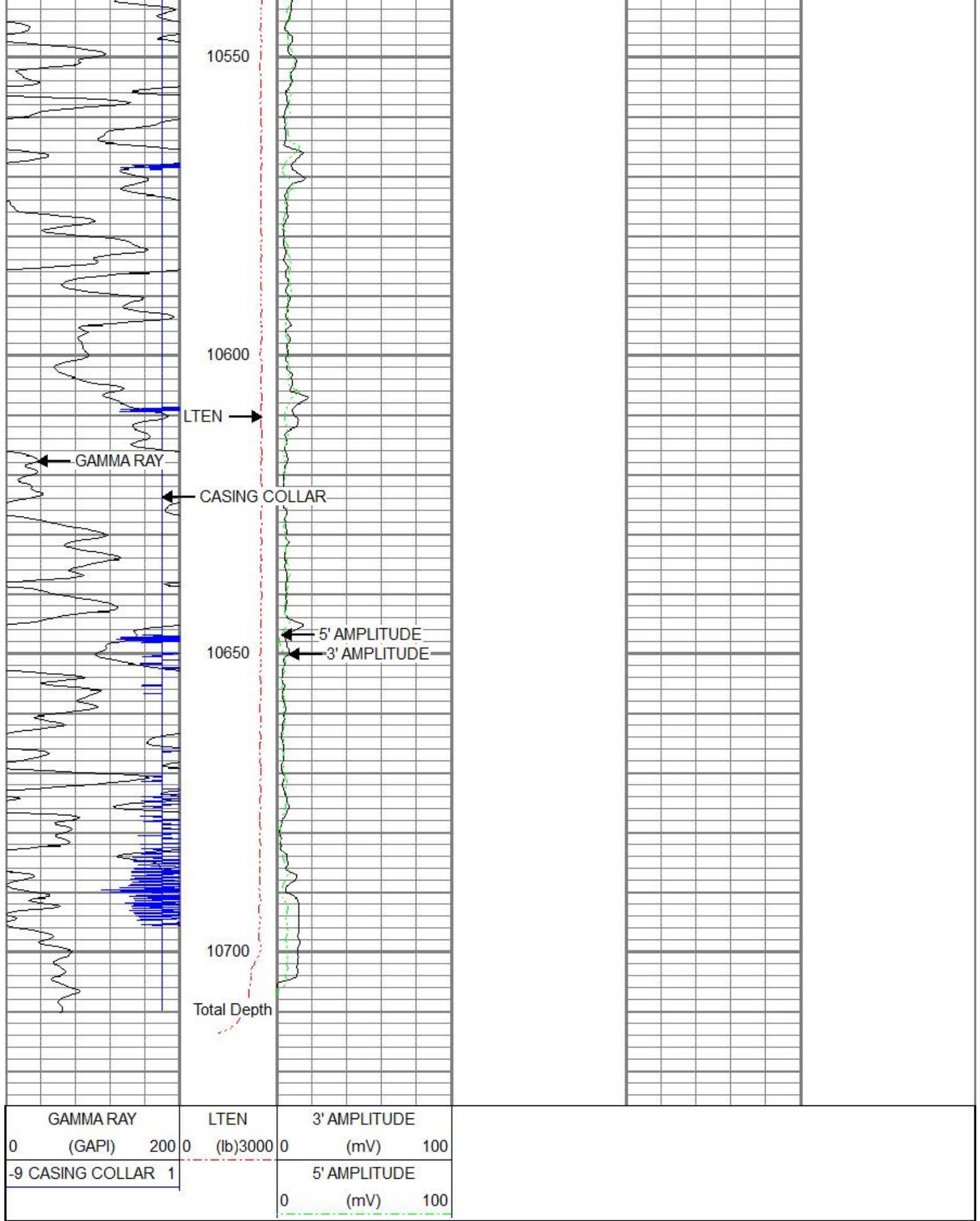
10350

10400

10450

10500







Well	NGL C1C
Field	WATTENBERG
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