



# CEMENT BOND LOG

Mesa Wireline

Company	ANTERO RESOURCES CORPORATION	Company	ANTERO RESOURCES CORPORATION
Well	COLOROSO A3	Well	COLOROSO A3
Field	MAMM CREEK	Field	MAMM CREEK
County	GARFIELD	County	GARFIELD
State	COLORADO	State	COLORADO
Location:		API #	85043127440000
SURFACE HOLE: 1734' FNL & 8684' FNL		Other Services	NONE
SEC. 07 TWP. 08S. RGE. 92N		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	K.B. 5386'
Log Measured From	KELLY-BUSHING = 22 FT	Elevation	D.F. 5385'
Drilling Measured From	KELLY-BUSHING	Elevation	G.L. 5364'

Date	20 NOV 2008								
Run Number	ONE								
Depth Driller	9197'								
Depth Logger	9188'								
Bottom Logged Interval	9180'								
Top Log Interval	SURFACE								
Open Hole Size	17 3/8"								
Type Fluid	WATER								
Density / Viscosity	8.34 LB								
Max. Recorded Temp.	247.0 DEG F								
Estimated Cement Top	5270'								
Time Well Ready	N/A								
Time Logger on Bottom	N/A								
Equipment Number	16201/RB102								
Location	GRAND JUNCTION								
Recorded By	D. SOLIS								
Witnessed By	F. STARK								
Borehole Record									
Run Number	Bit	Eqm	To	Size	Weight	From	To		
ONE	14.75"	SURFACE	700'						
TWO	12.25"	900'	900'						
THREE	7.875"	900'	9187'						
Casing Record						Size	Weight	Top	Bottom
Surface String						8.035"	24.0#	SURFACE	900'
Prot. String									
Production String						5.5"	17.0#	SURFACE	9187'
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

CBL-GR-TEMP RAN IN COMBINATION.  
NO LOGS AVAILABLE TO CORRELATE WITH.  
SHORT JOINTS @:5470' OT 5482' AND 8645' TO 8646'.

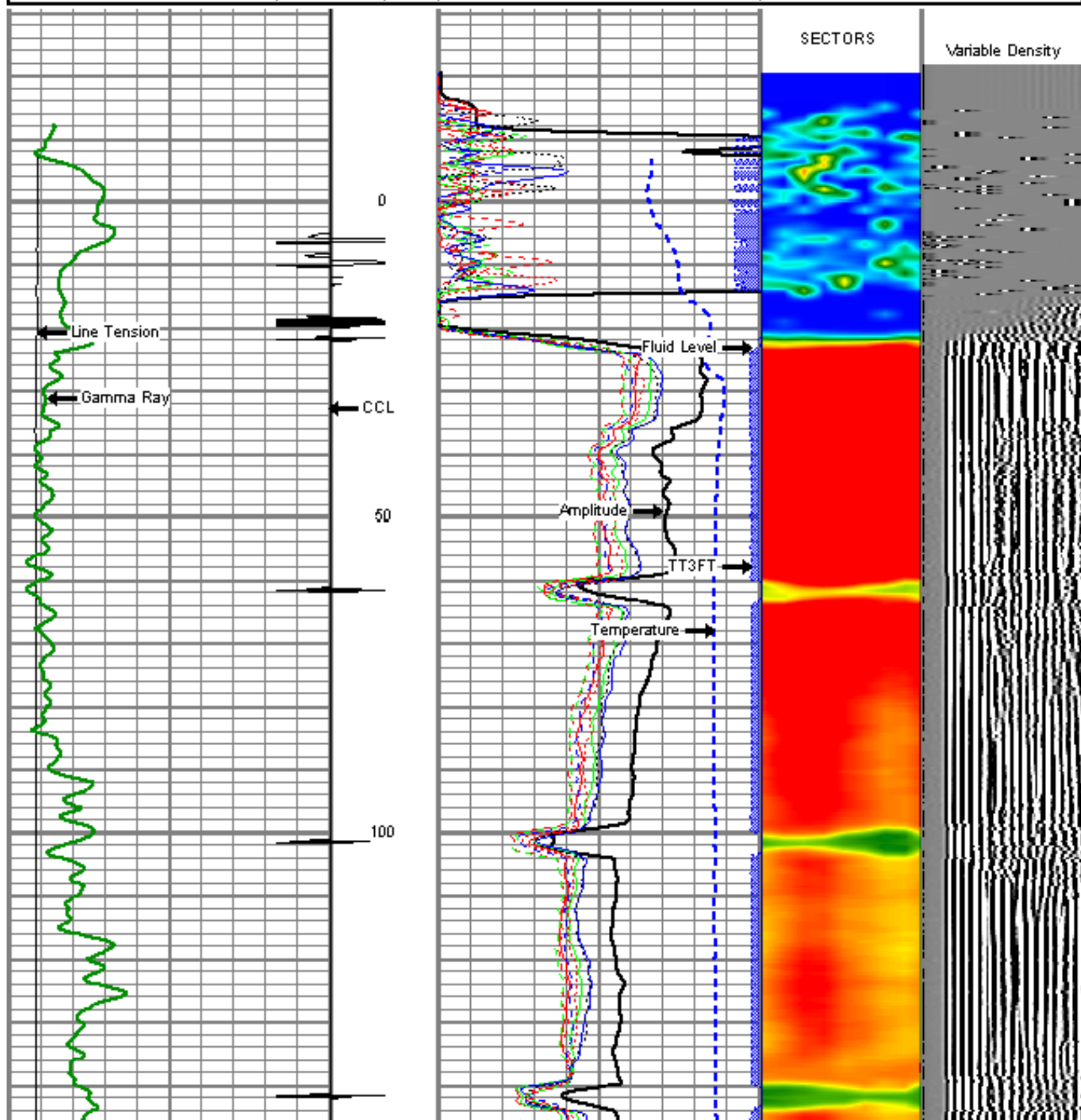
WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0

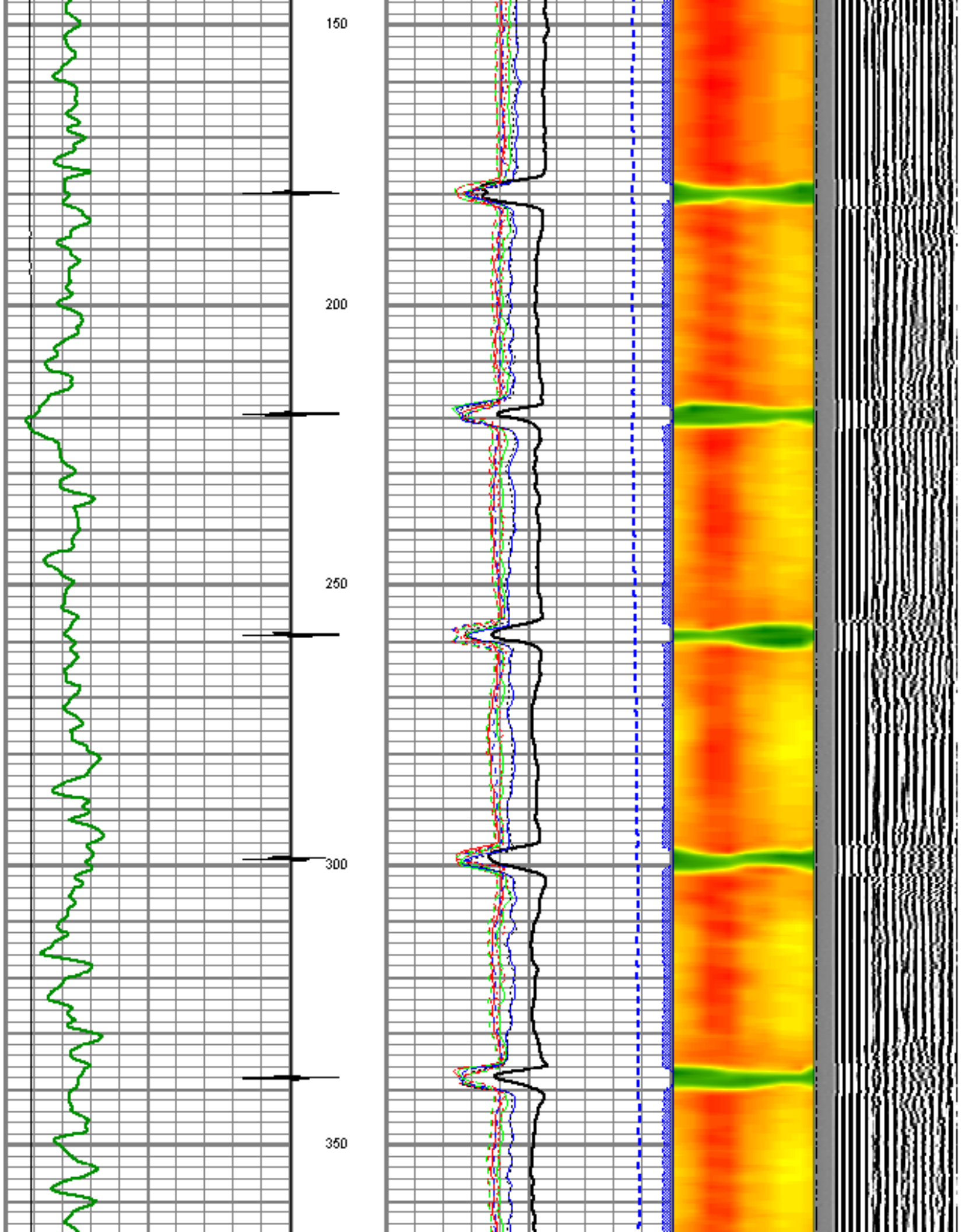


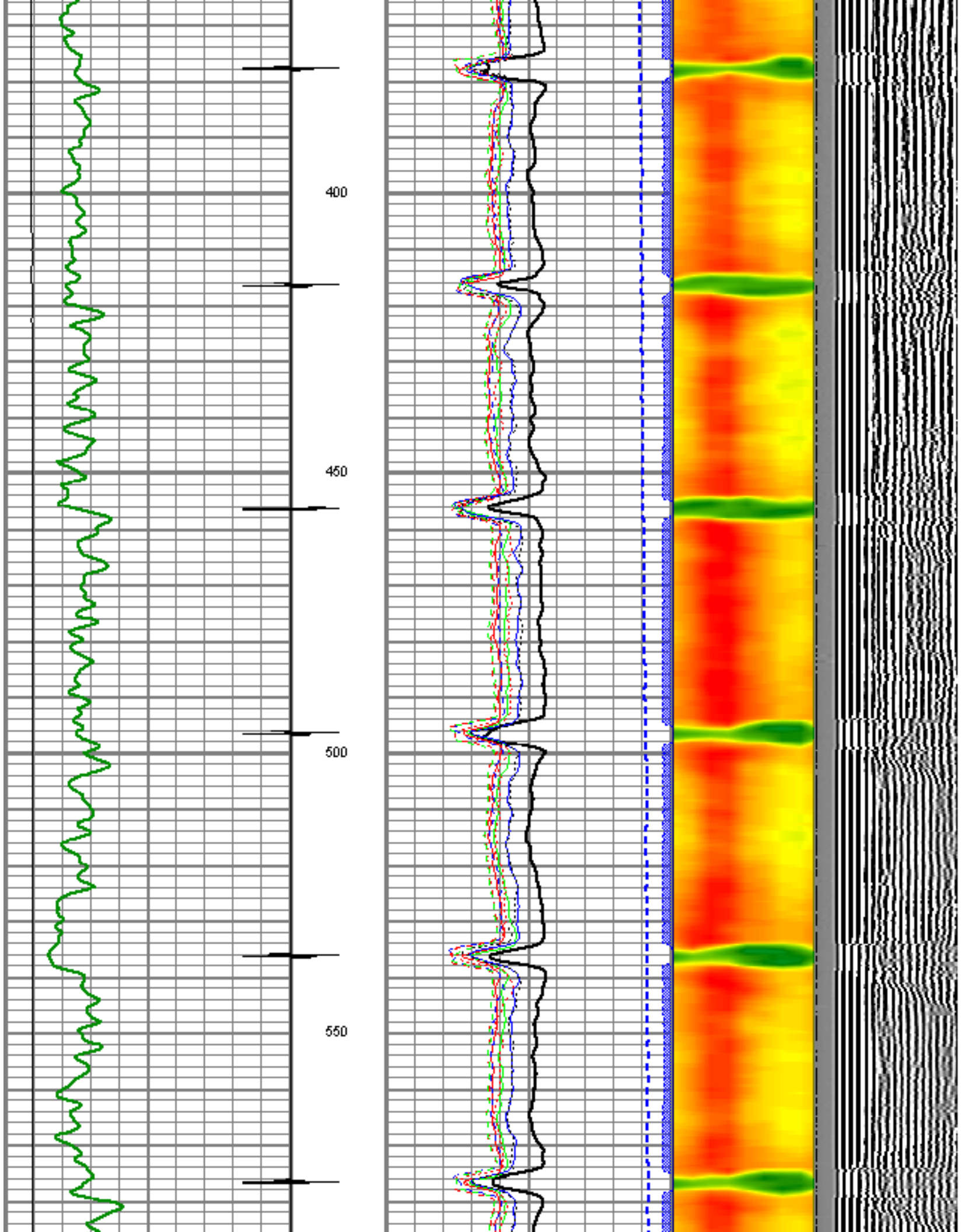
## MAIN LOG SECTION

Database File: a\_coloa4cbl.db  
 Dataset Pathname: pass4  
 Presentation Format: rbt\_fin  
 Dataset Creation: Thu Nov 20 10:37:11 2008  
 Charted by: Depth in Feet scaled 1:240

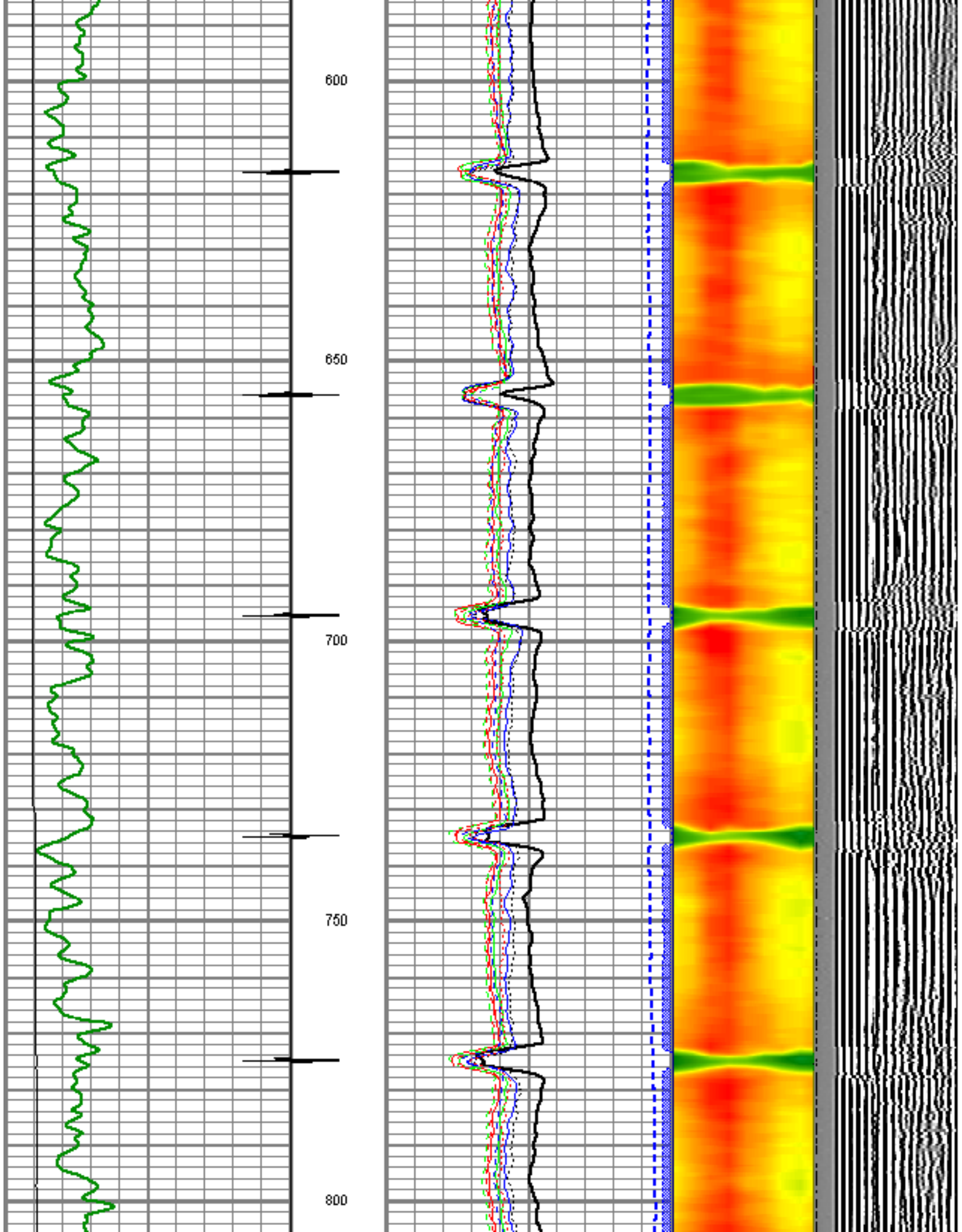
0	LTEN (lb)	4000		0	Amplitude (mV)	100	1	SECTORS	8	Variable Density	
0	GR (GAPI)	200		0	TT3FT (usec)	222	0		70	200	1200
		CCL		0	TEMP (degF)	100					

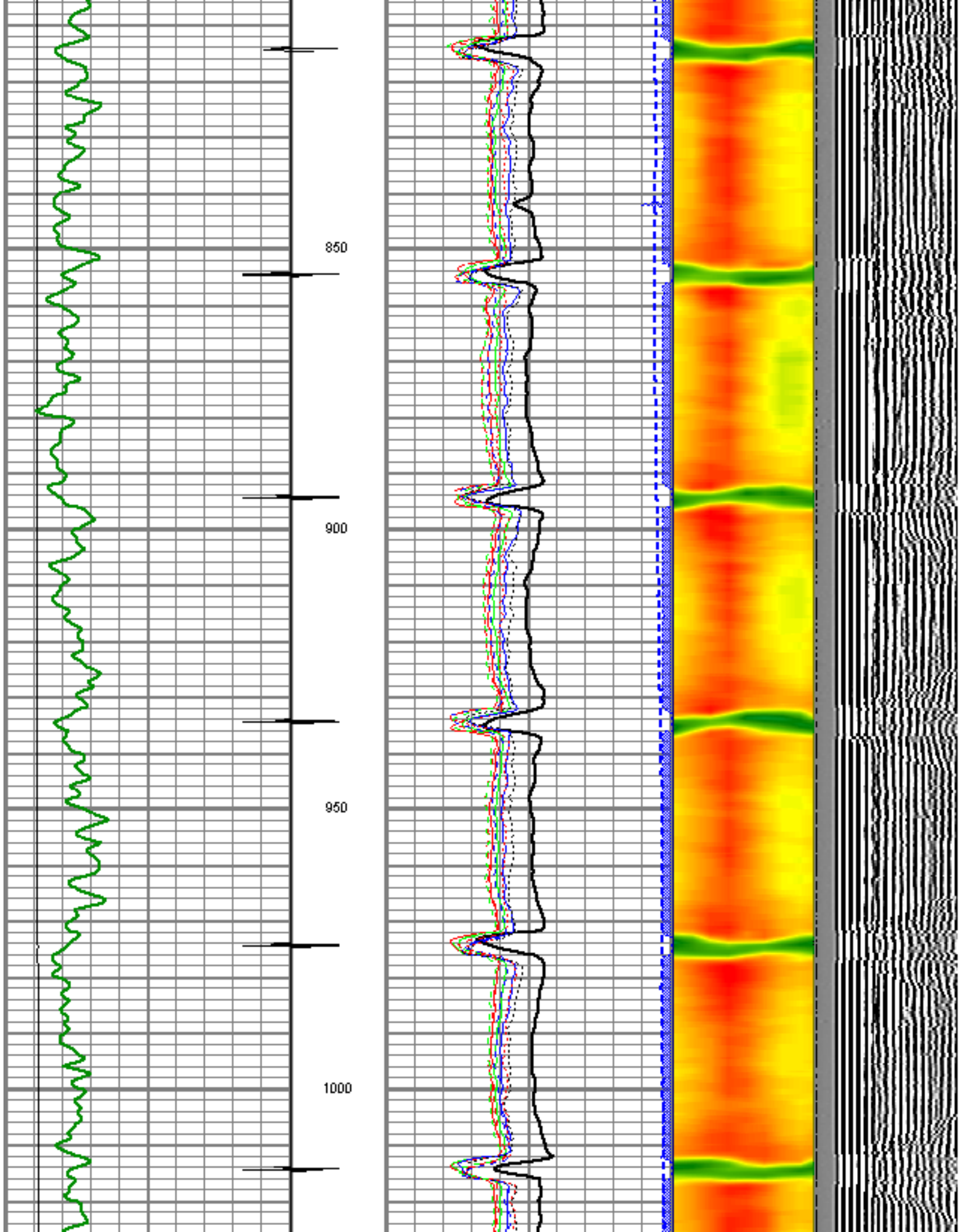


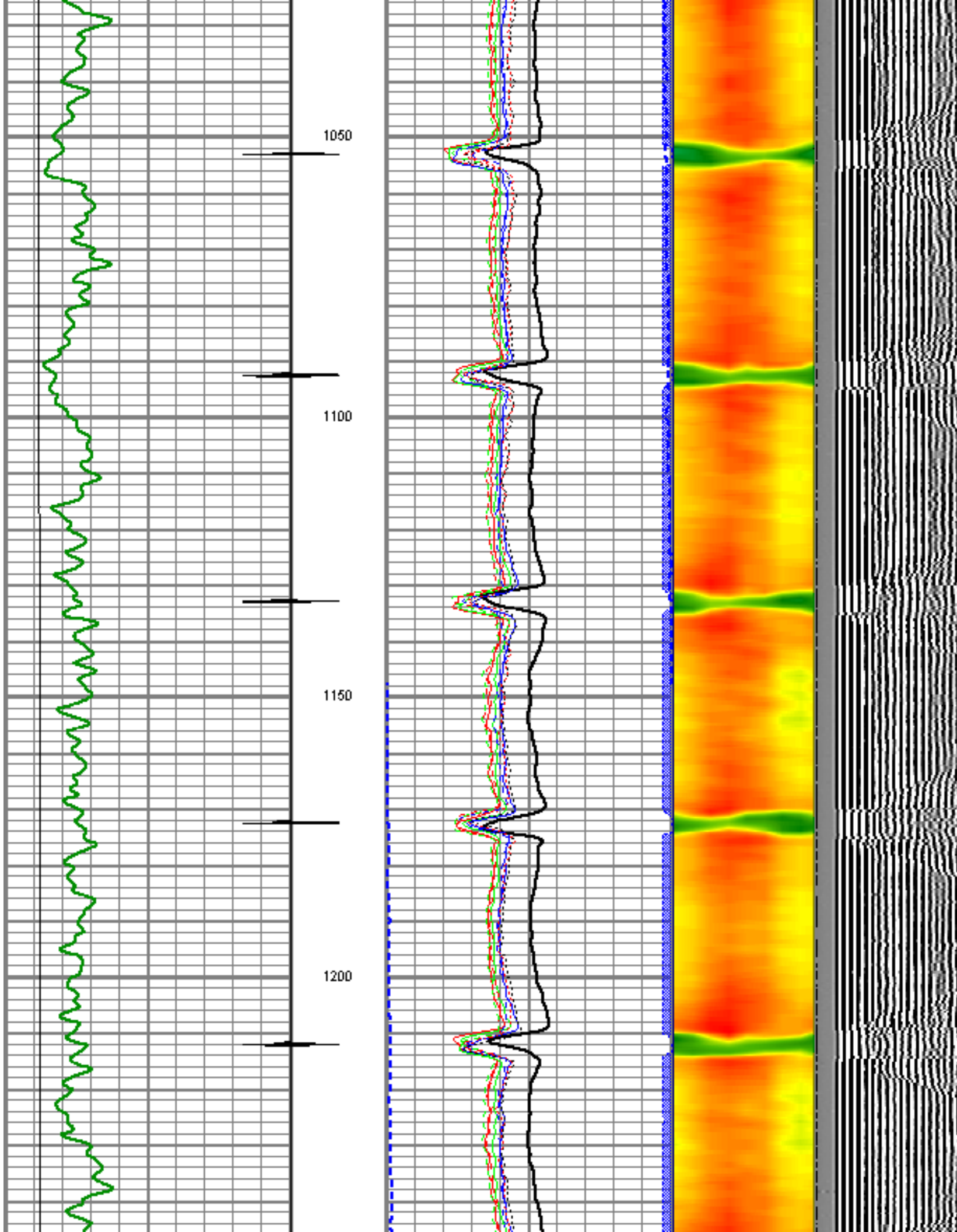


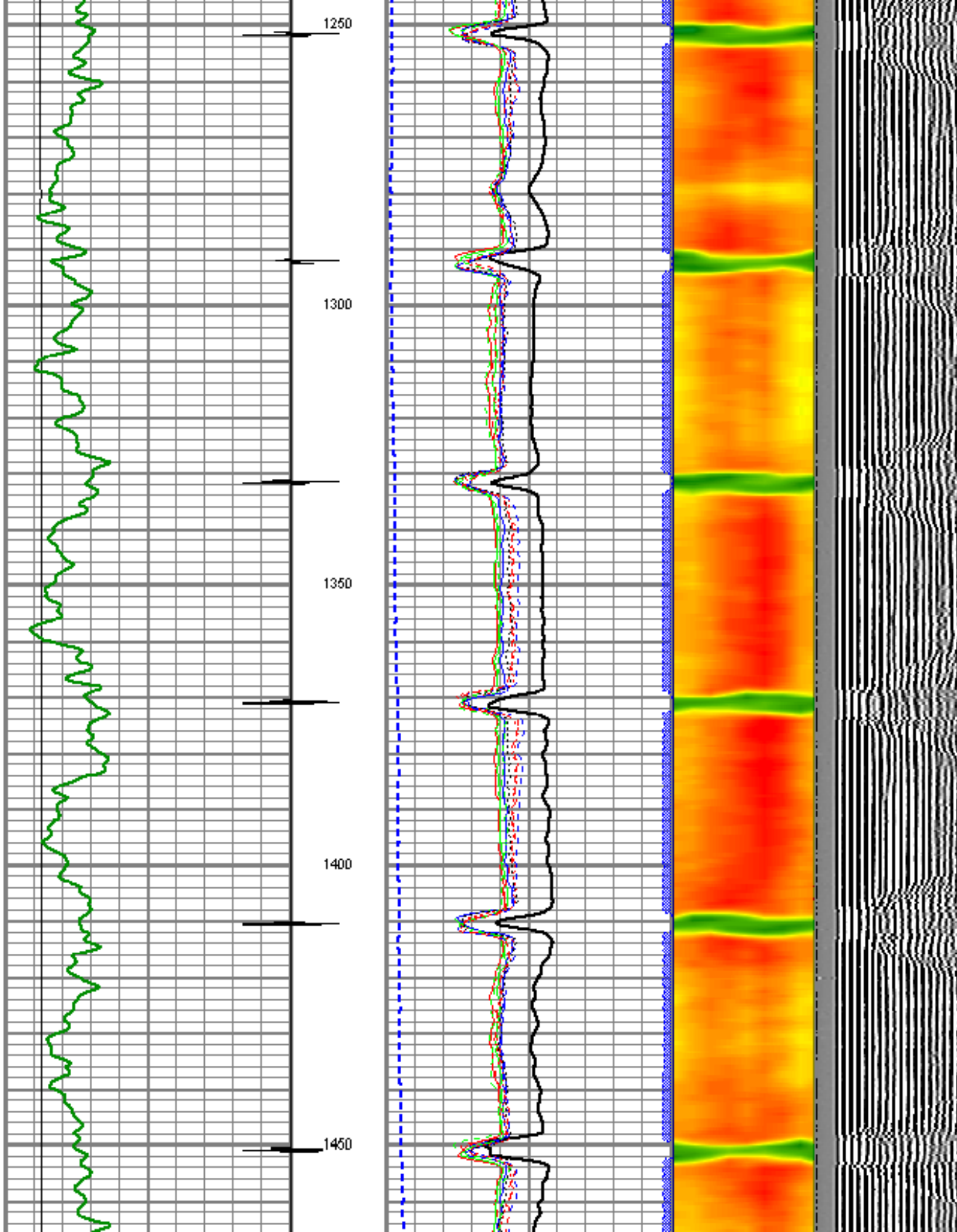




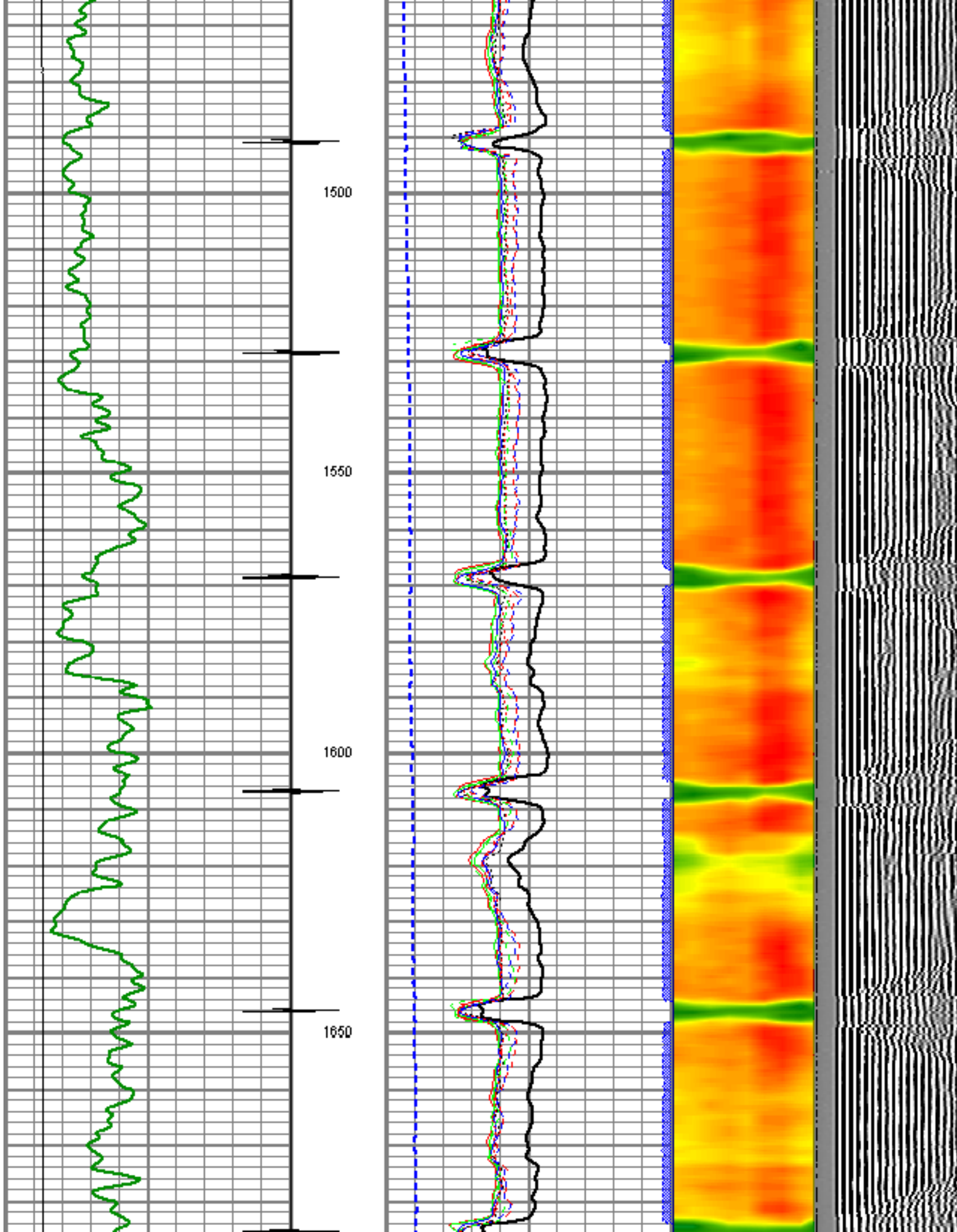


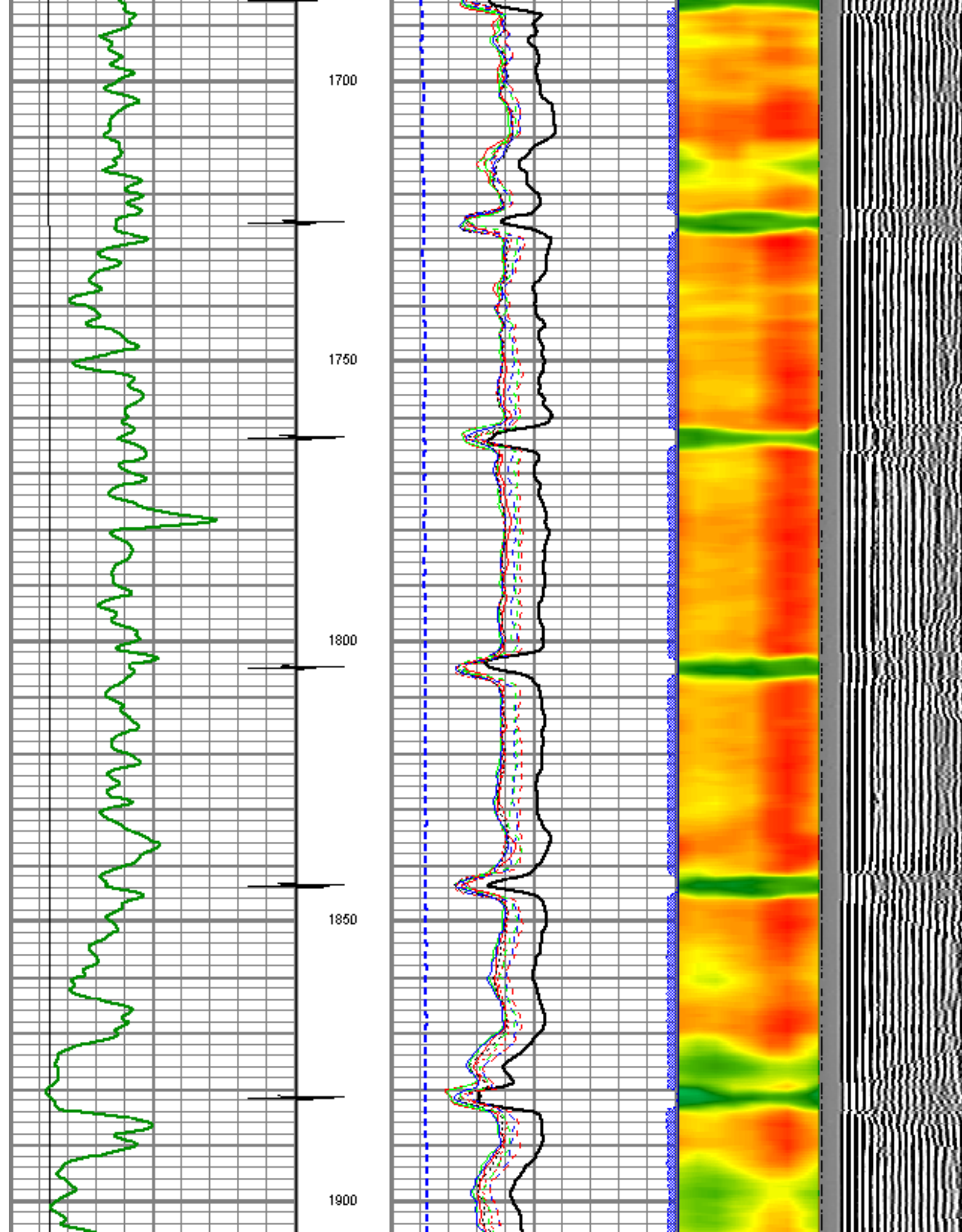


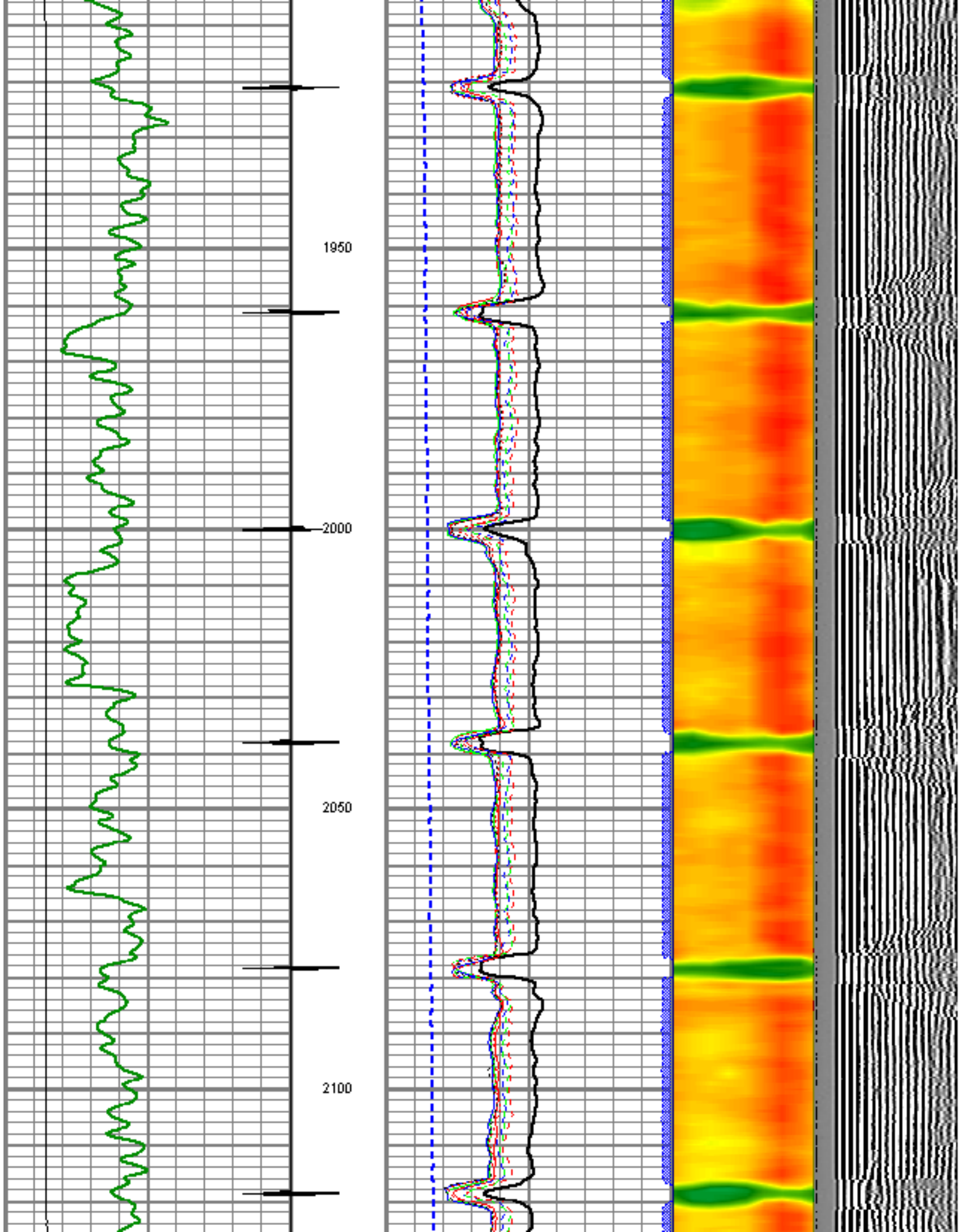




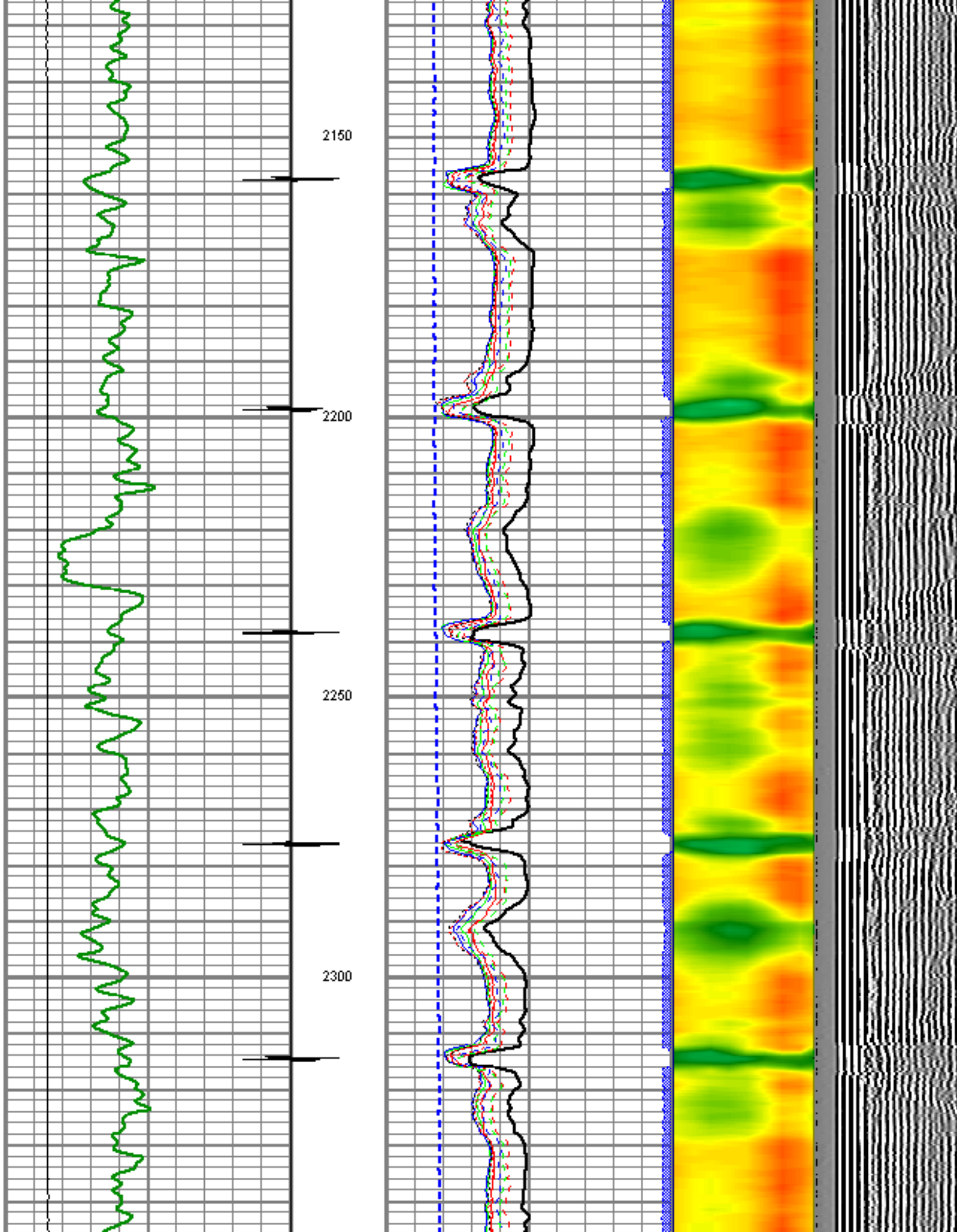




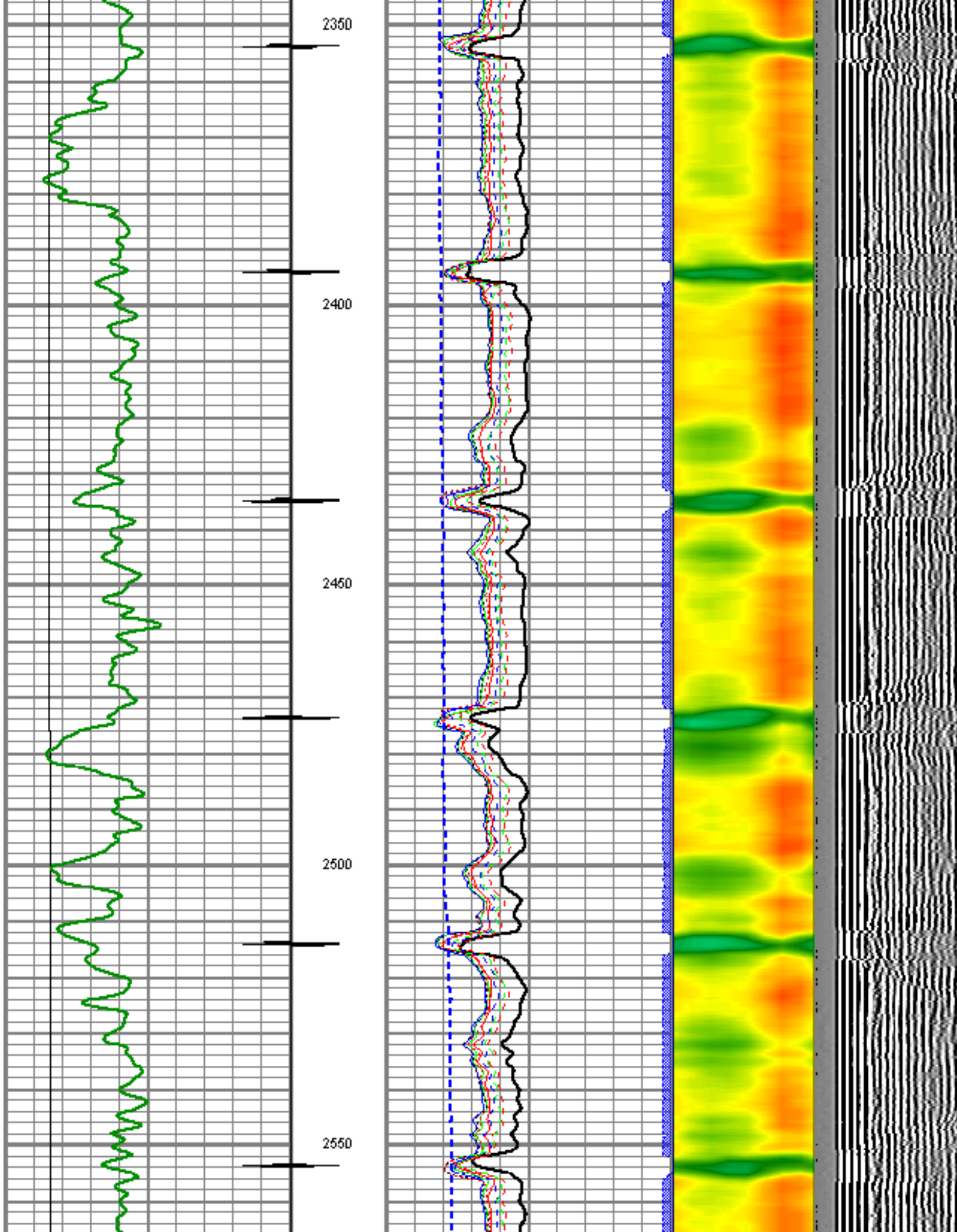


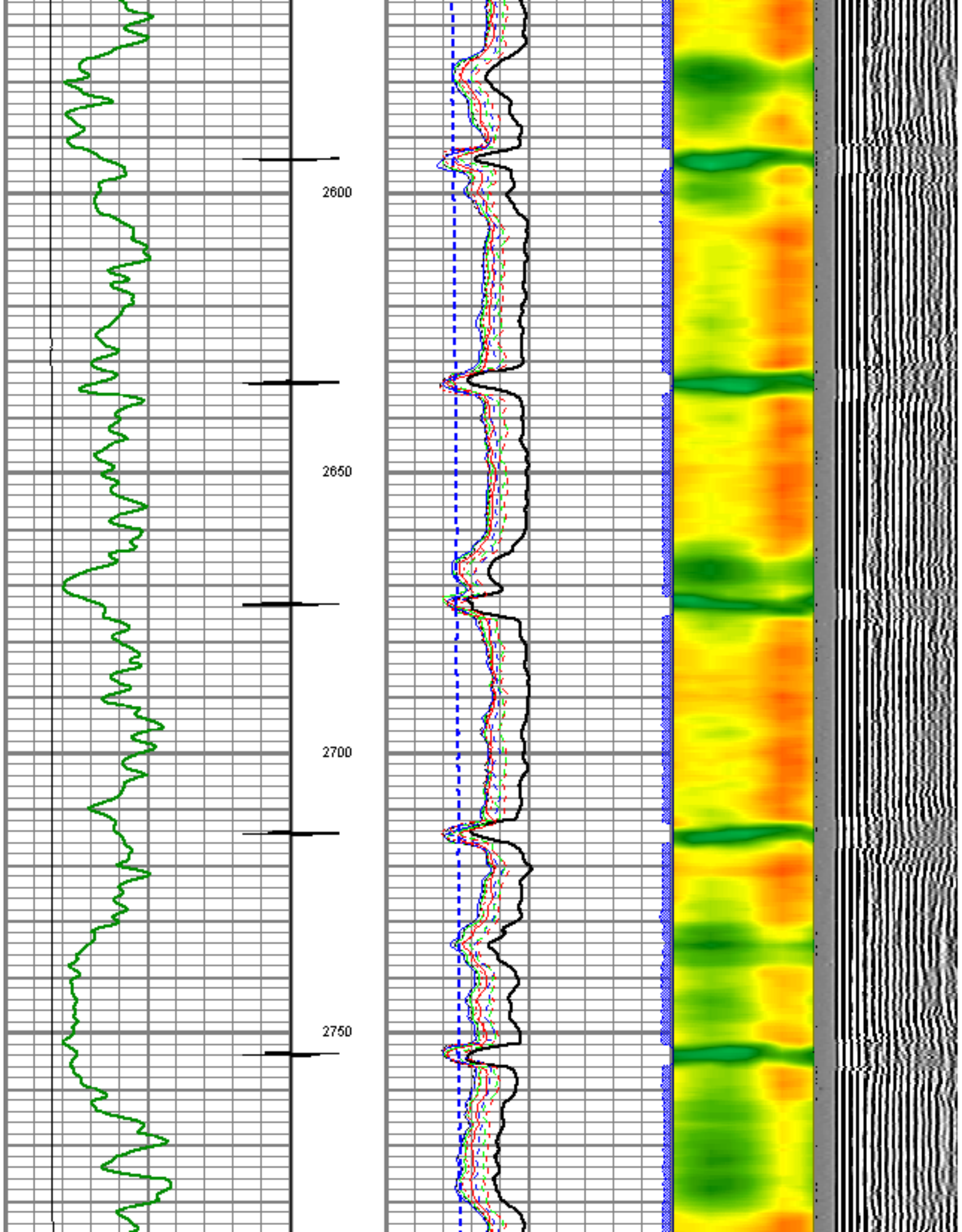


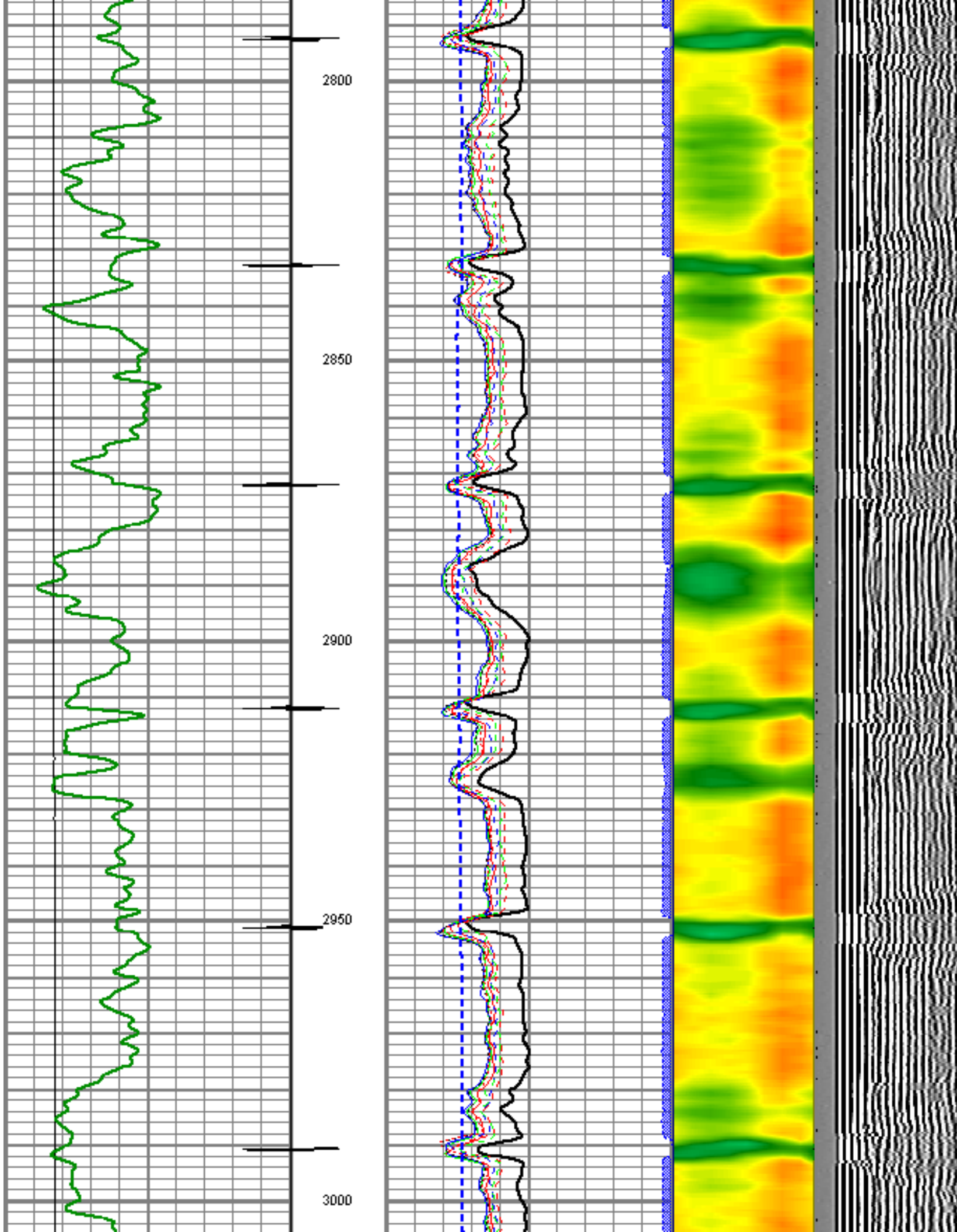




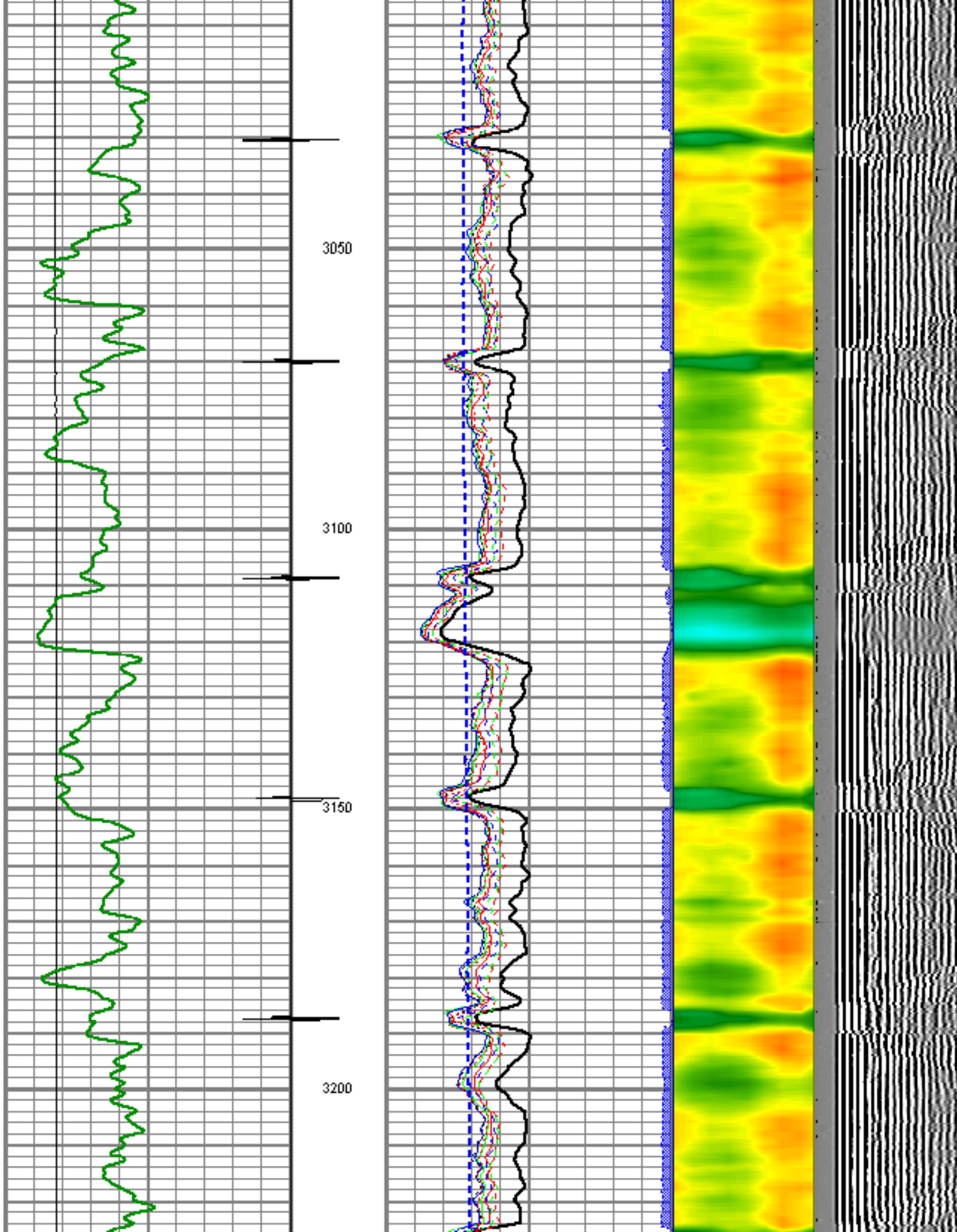




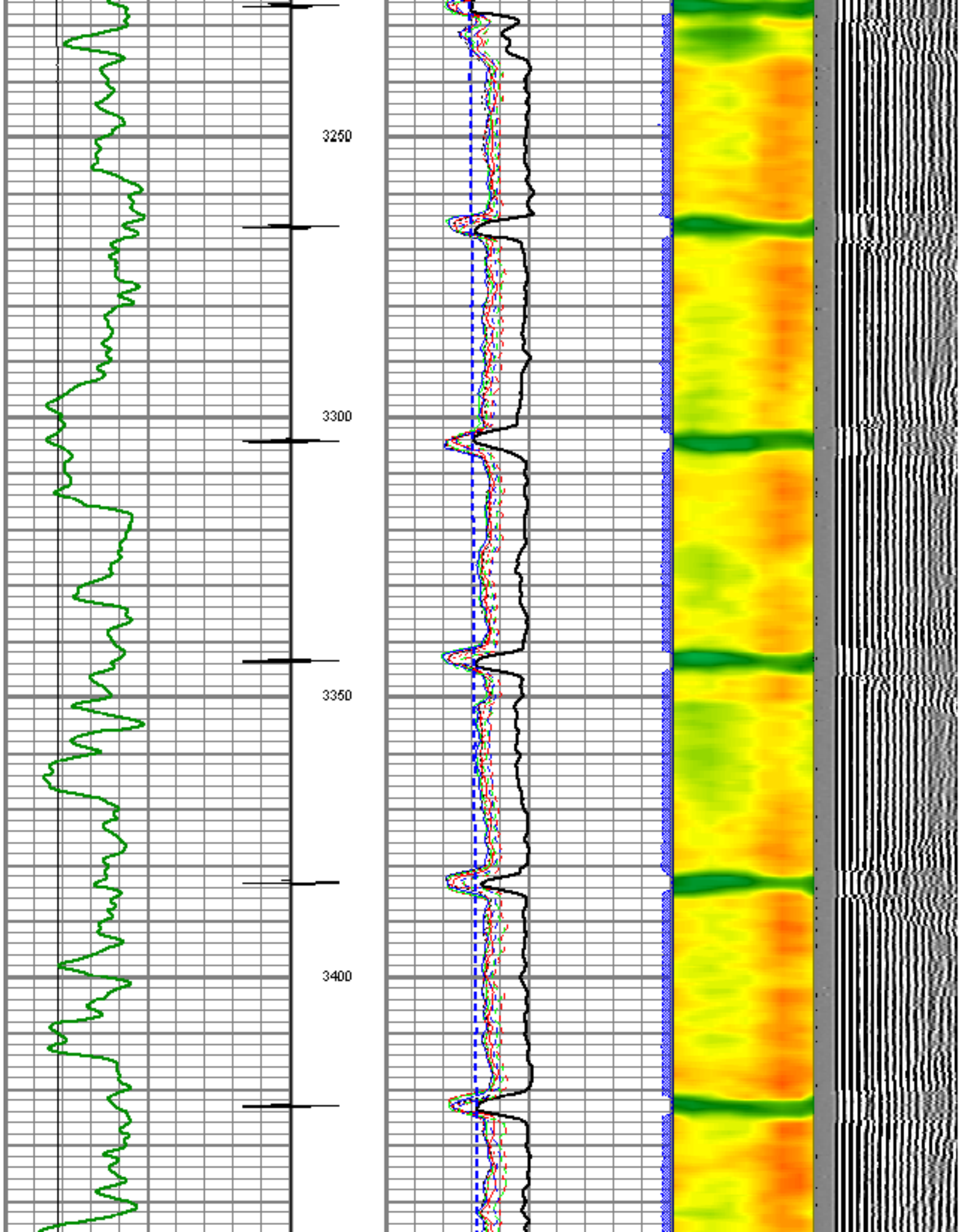


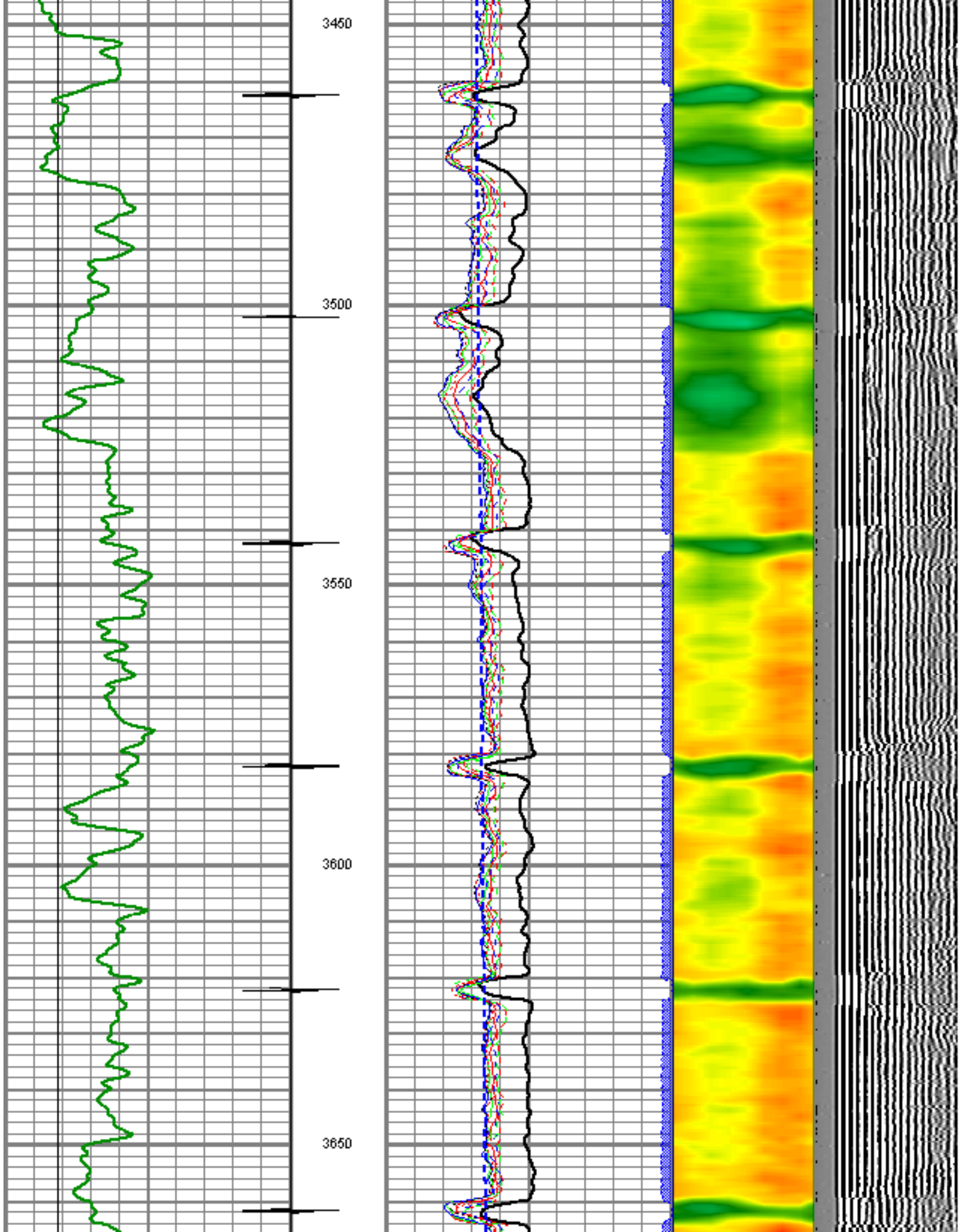


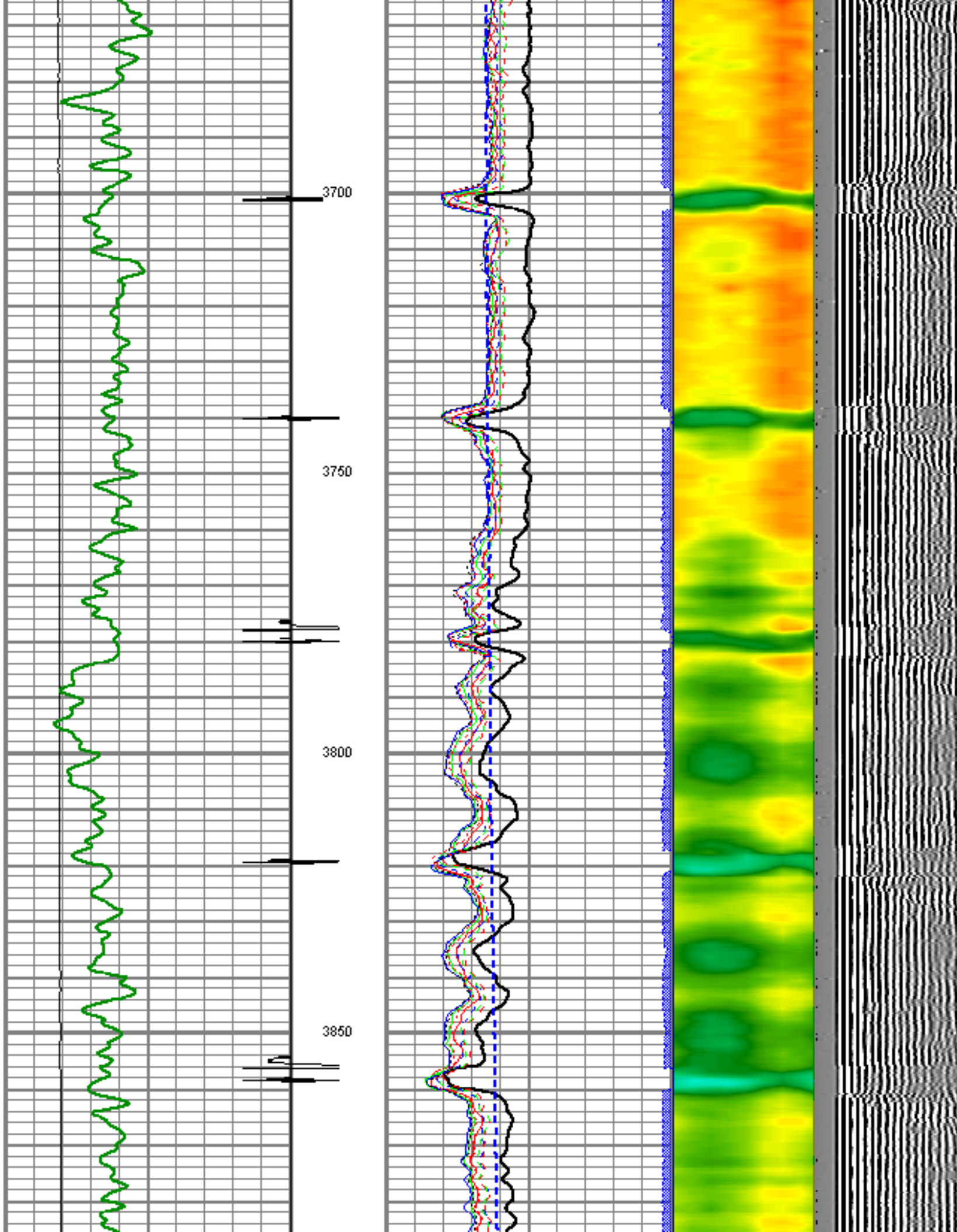




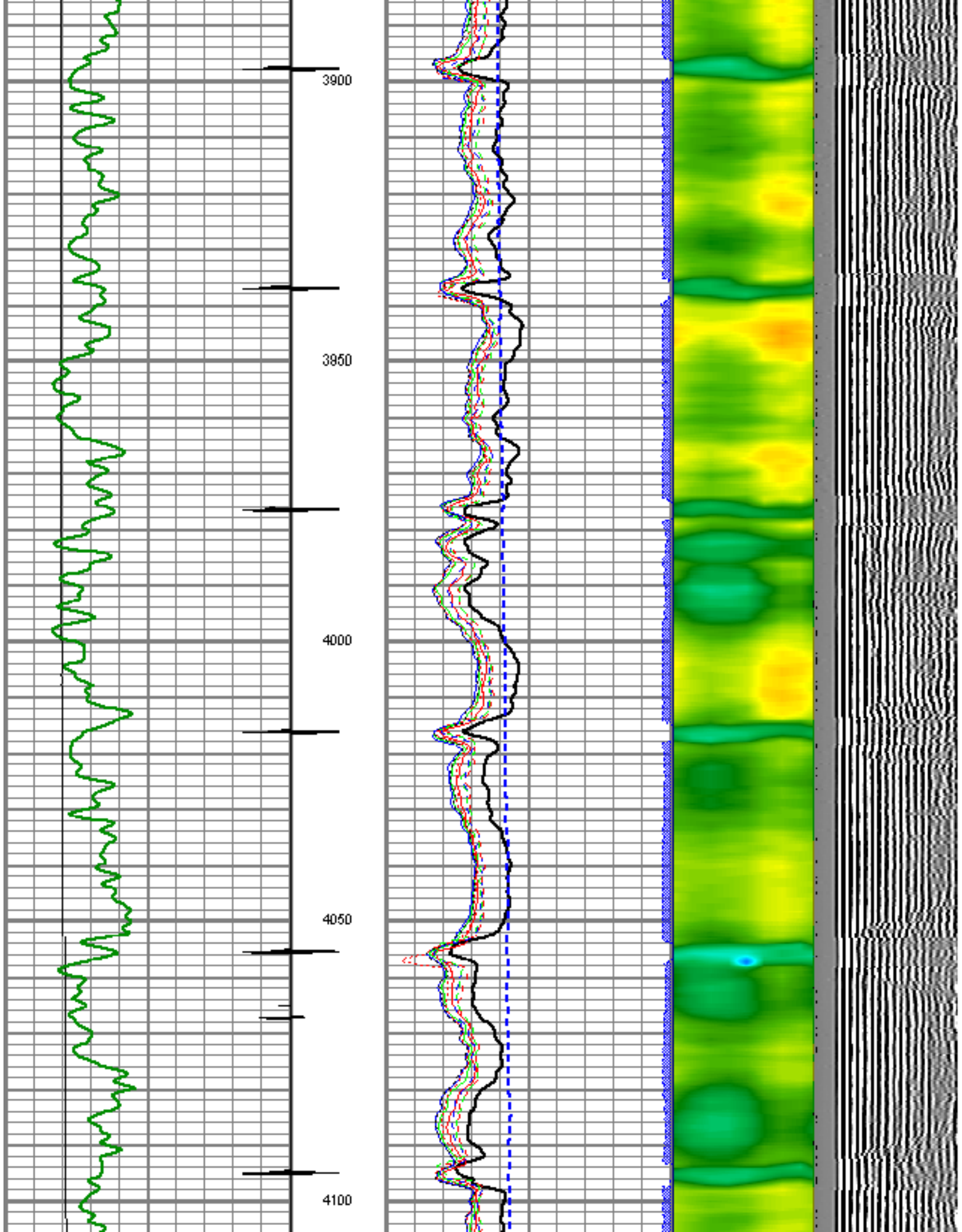




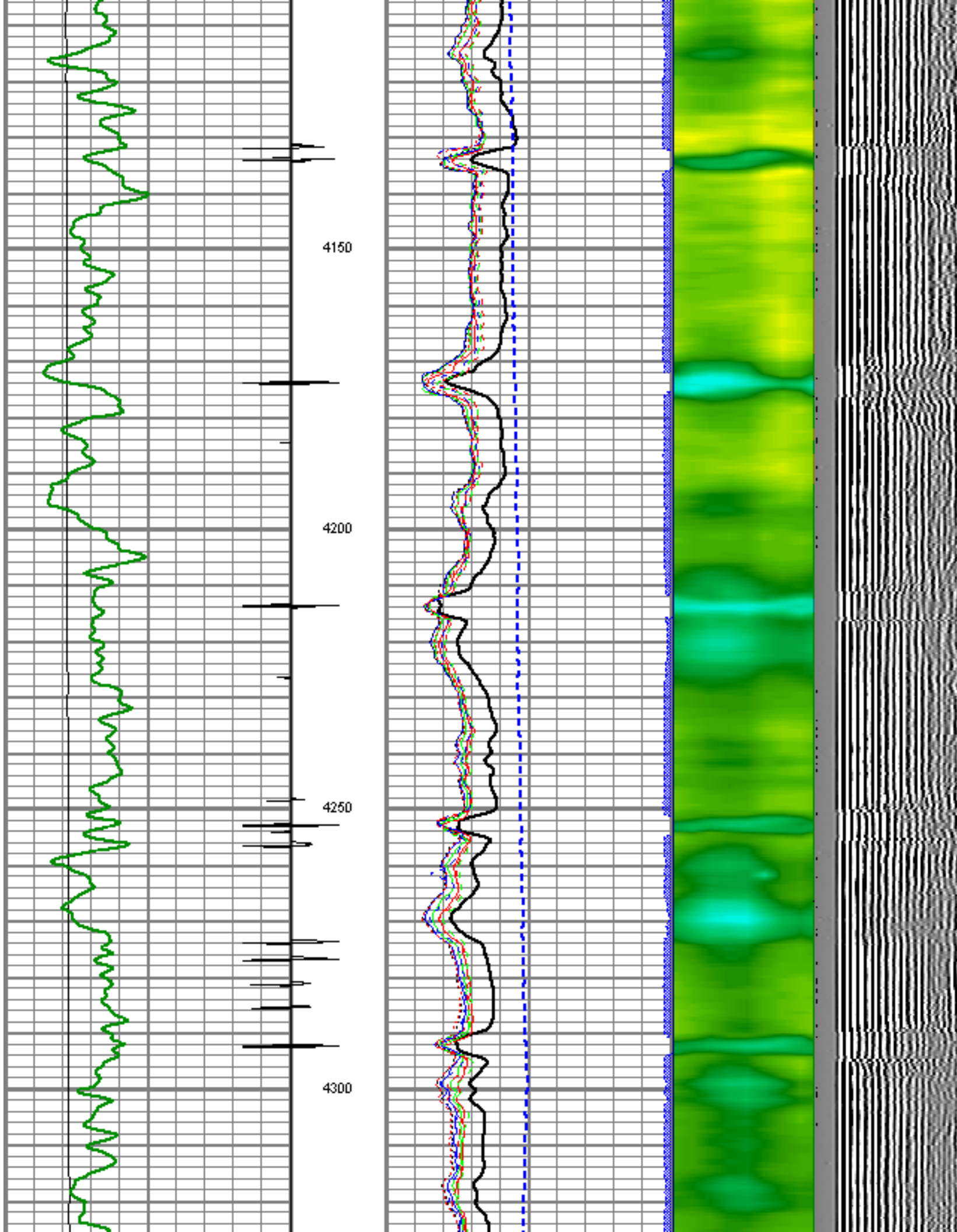


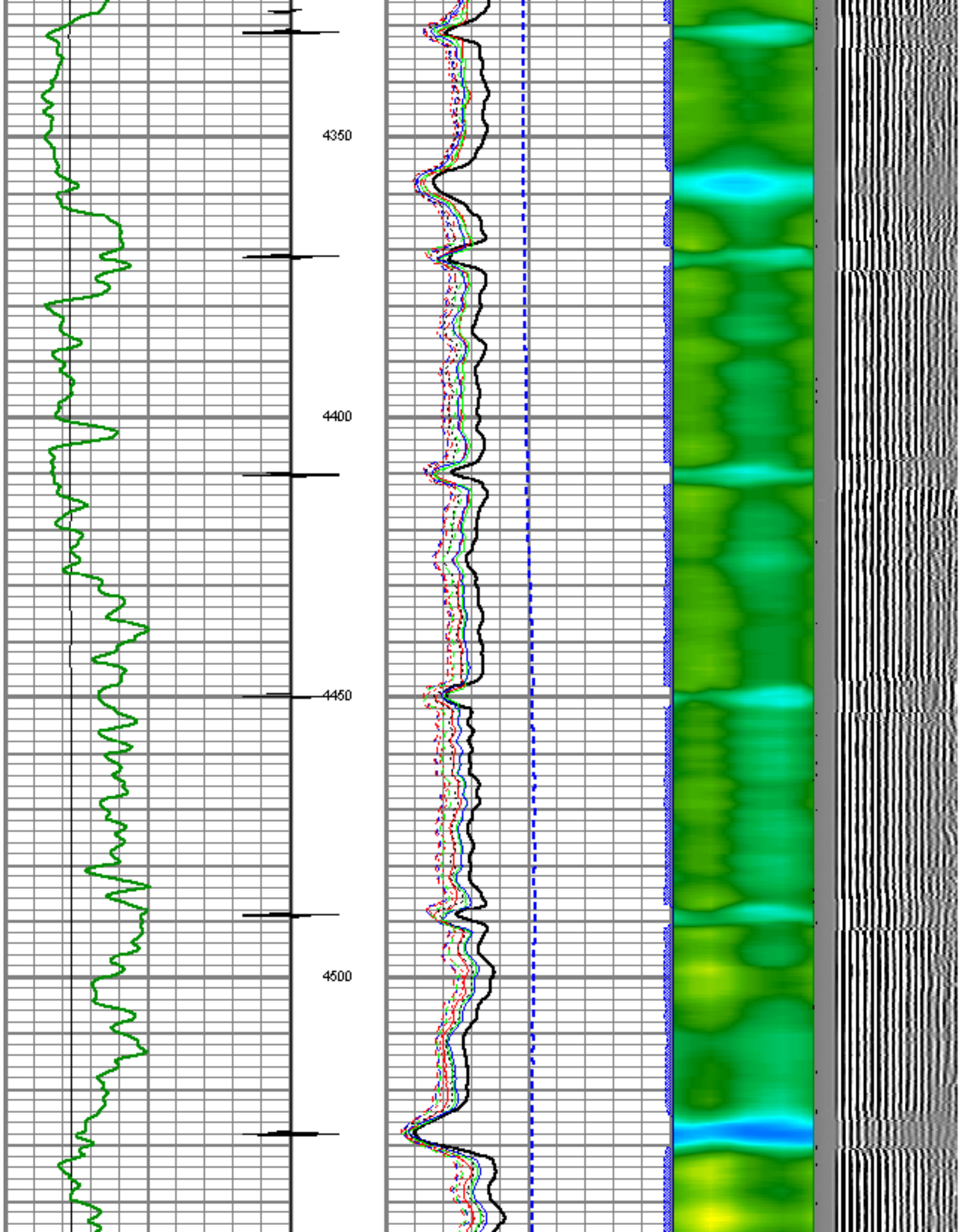


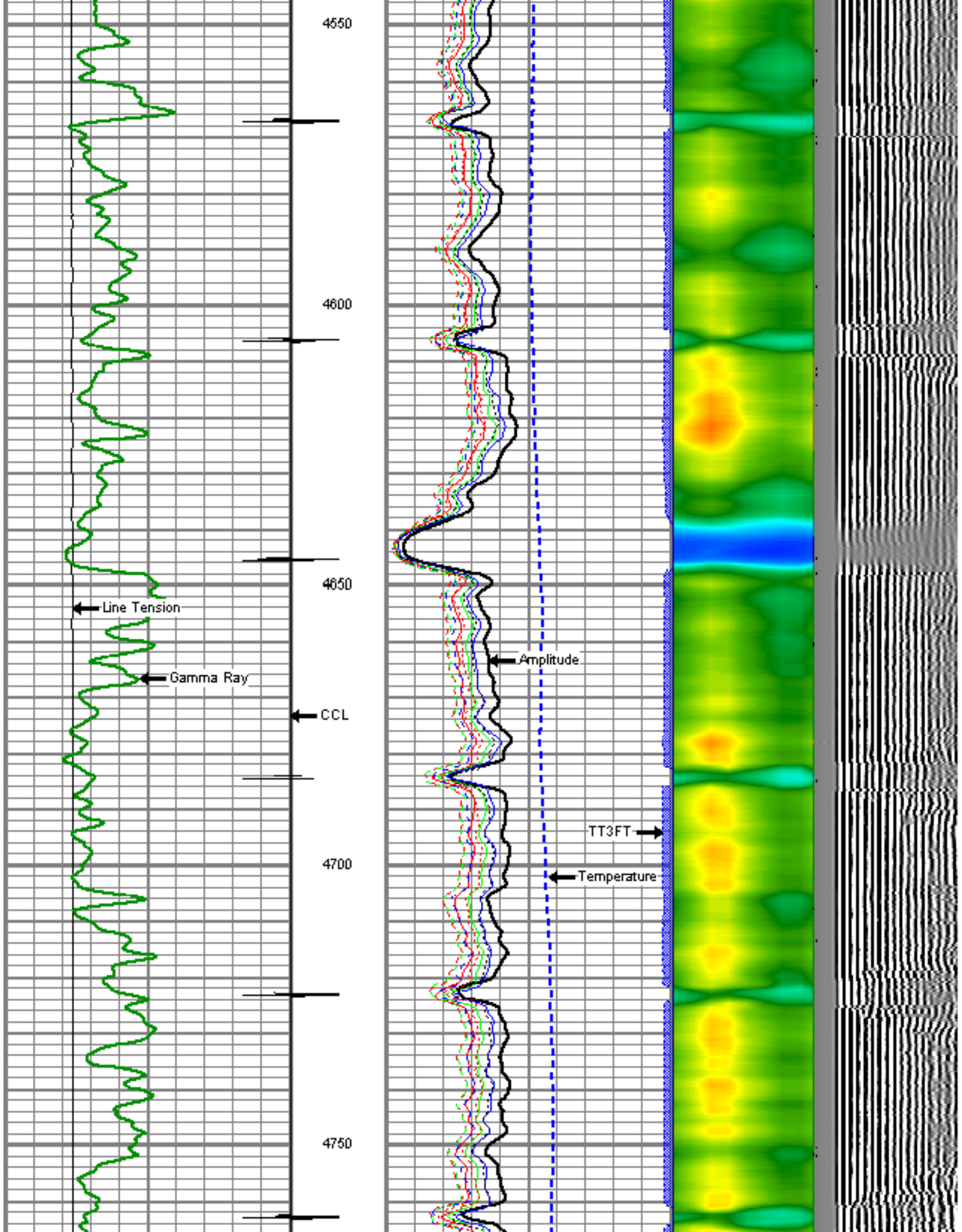




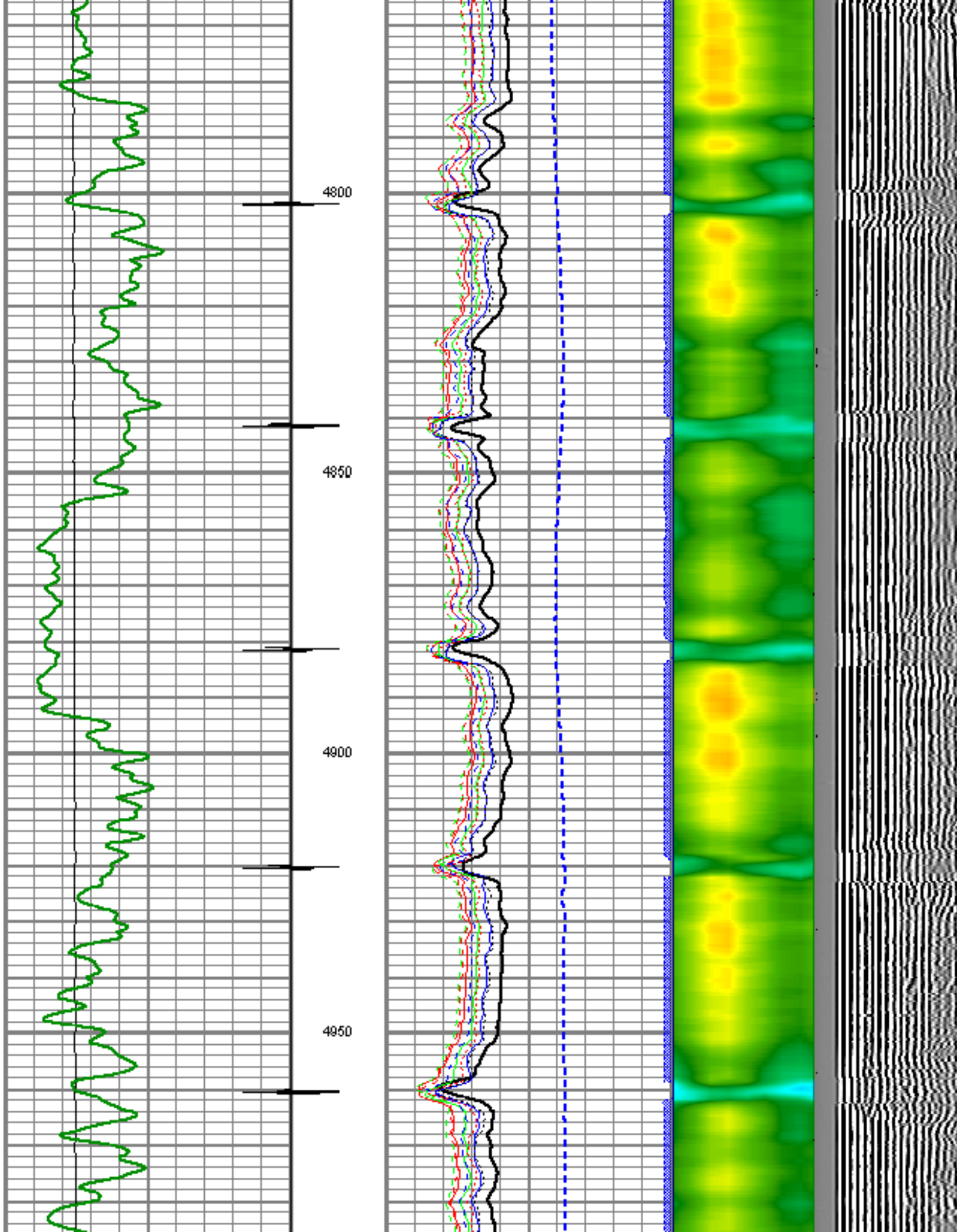




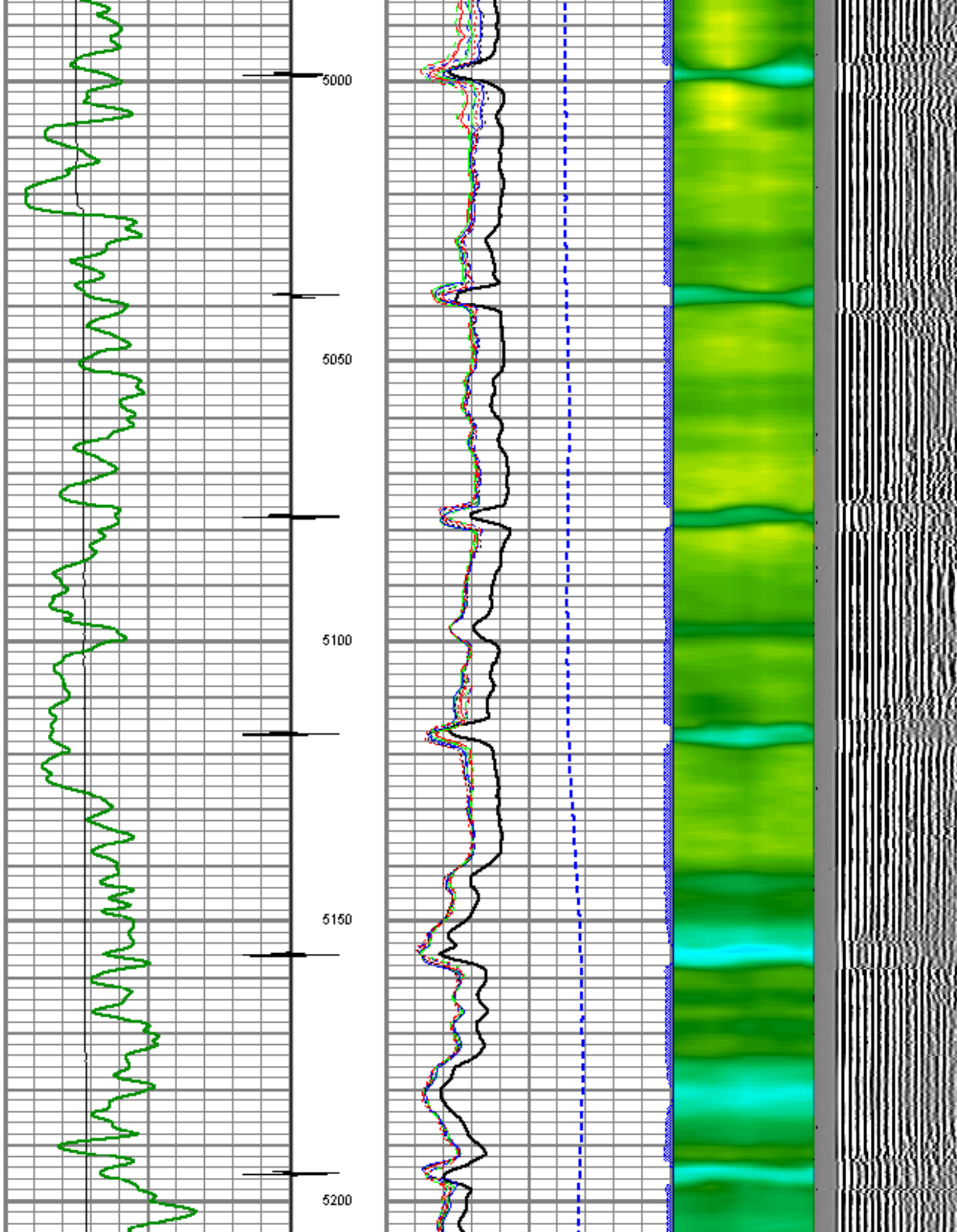


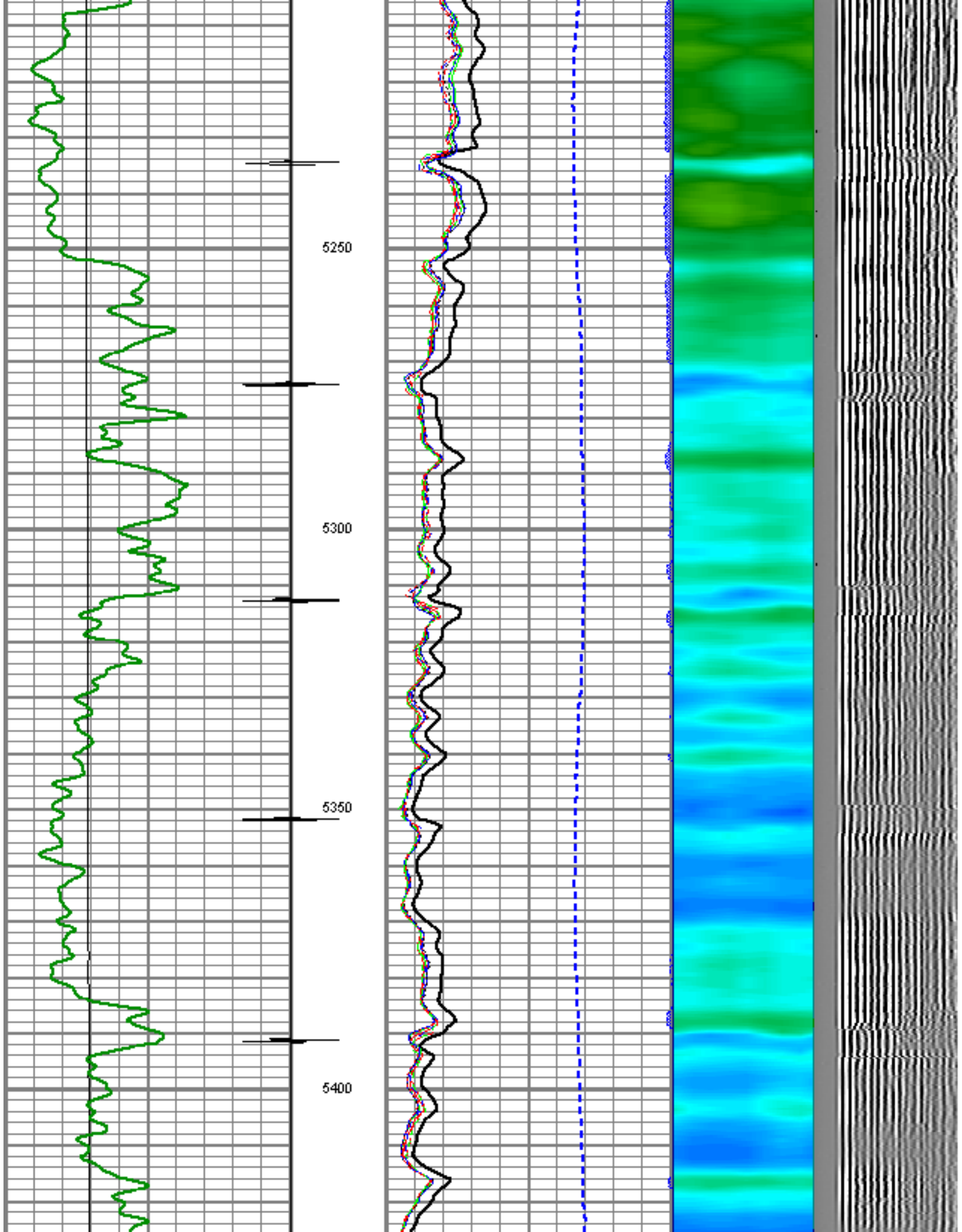


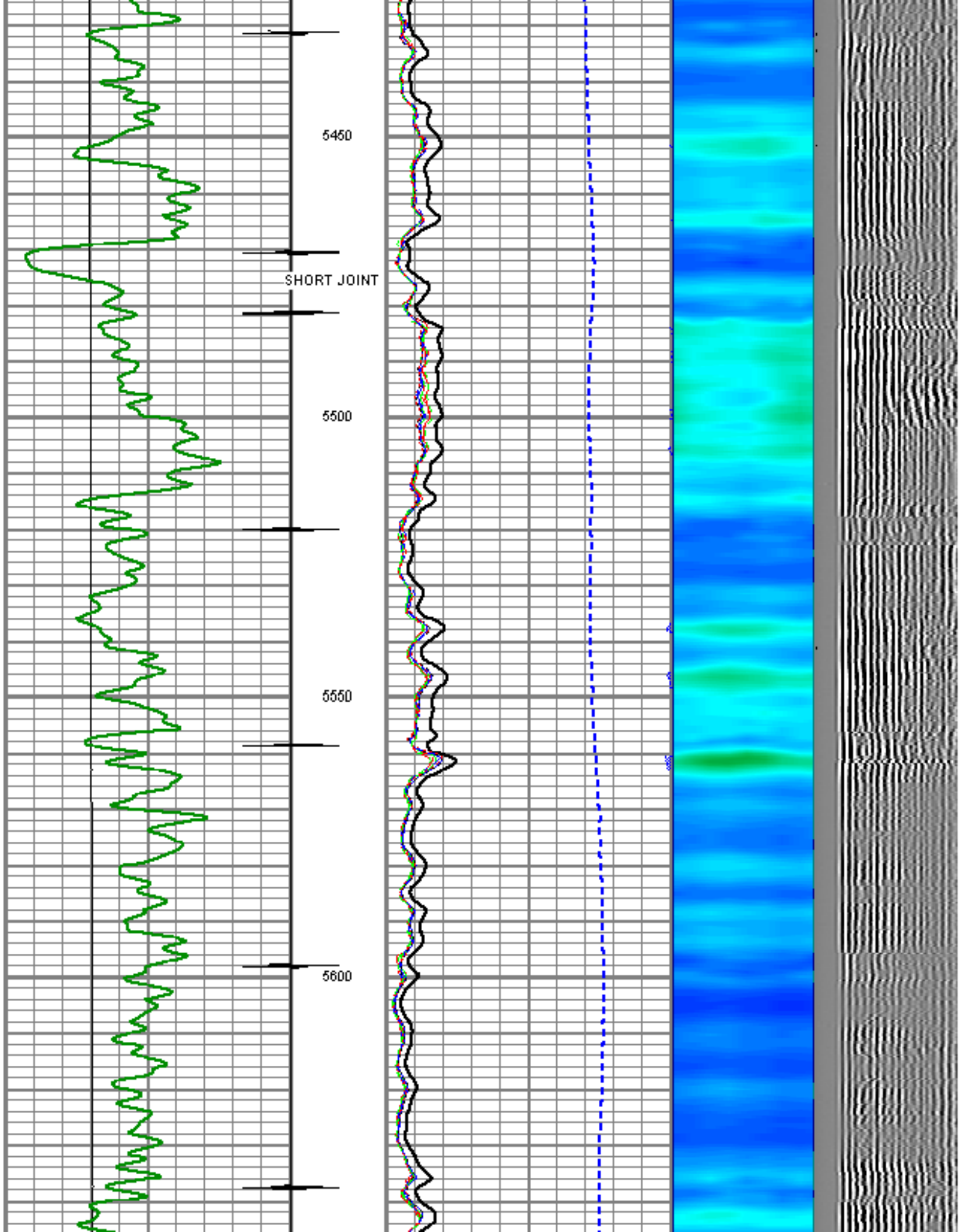




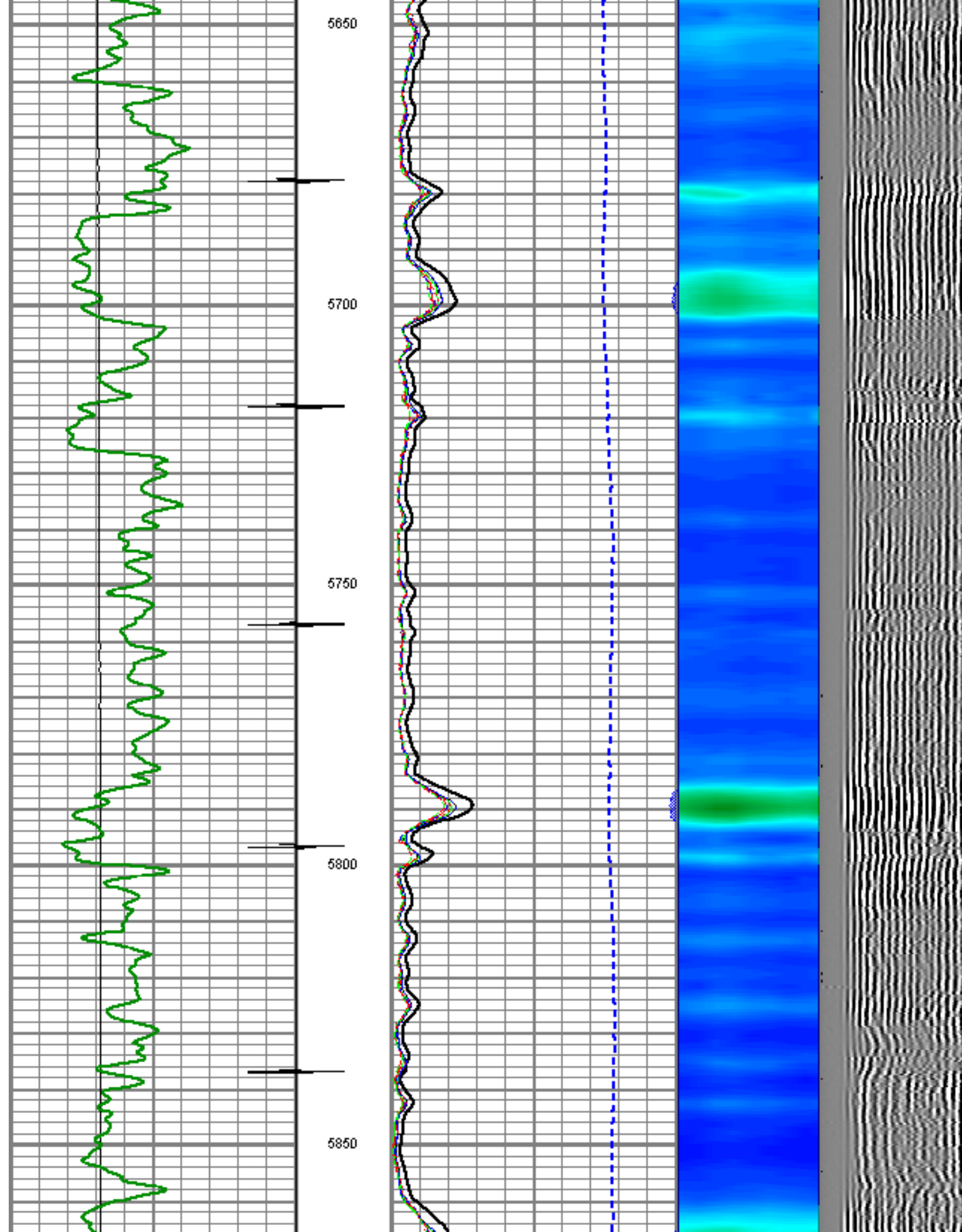


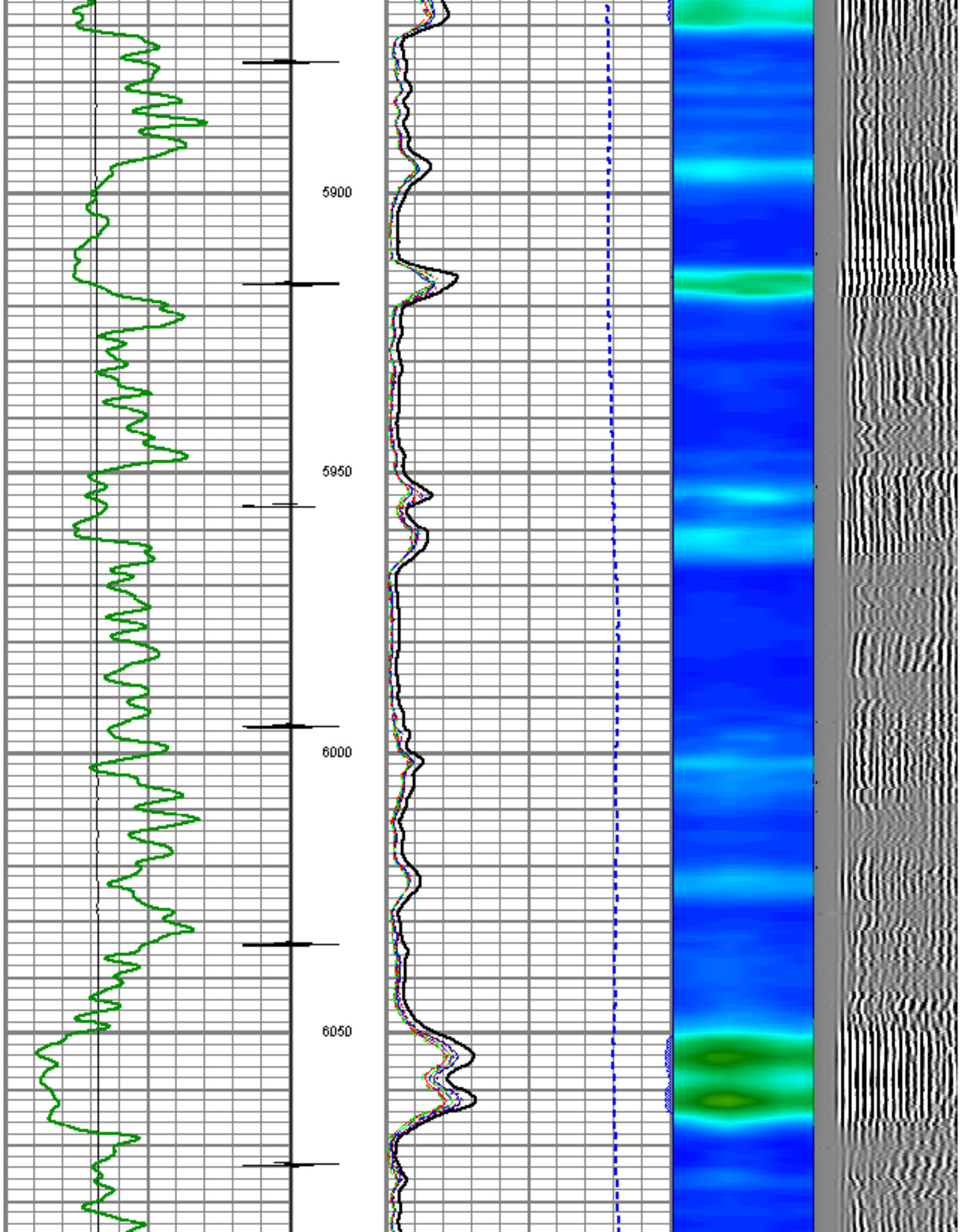


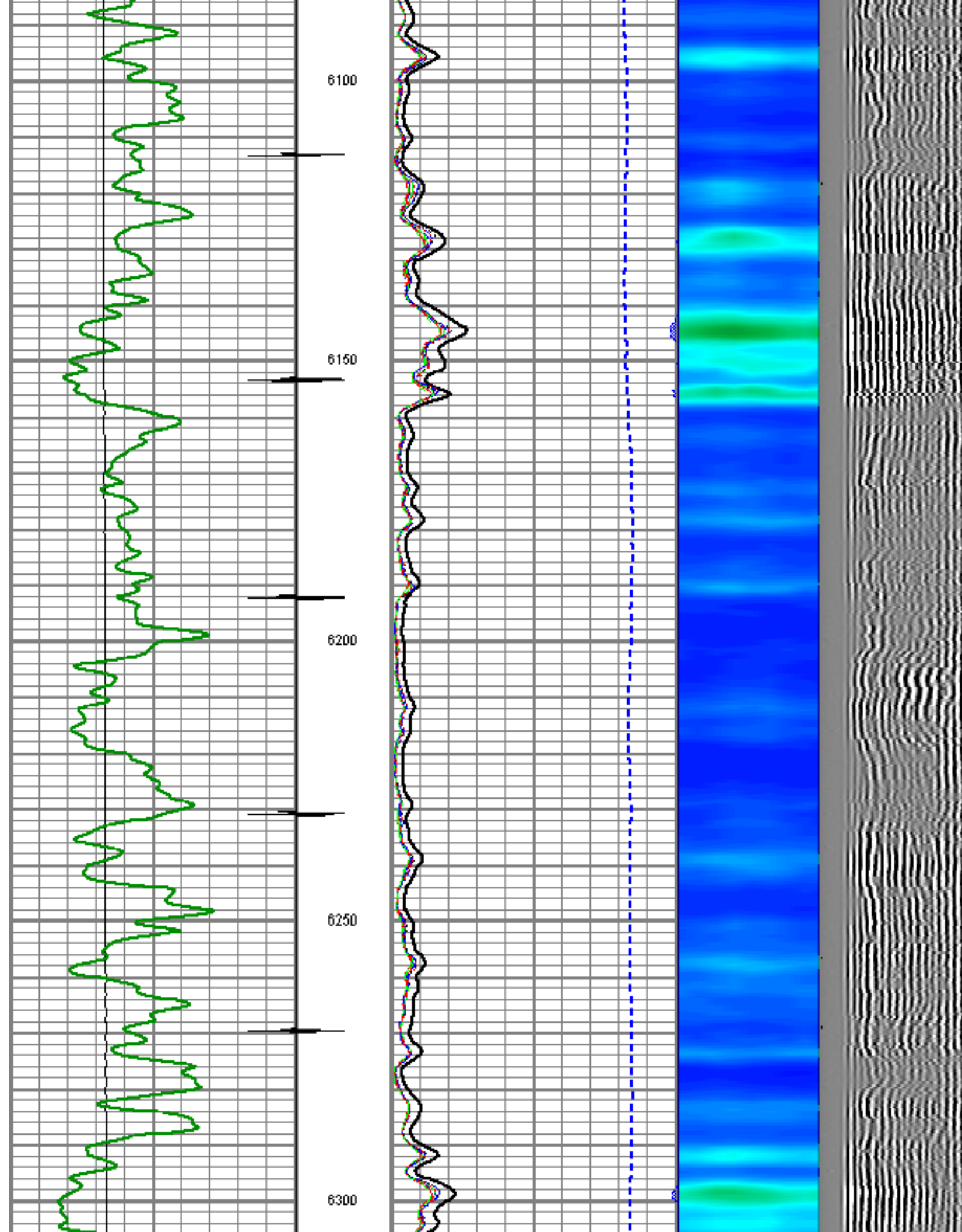




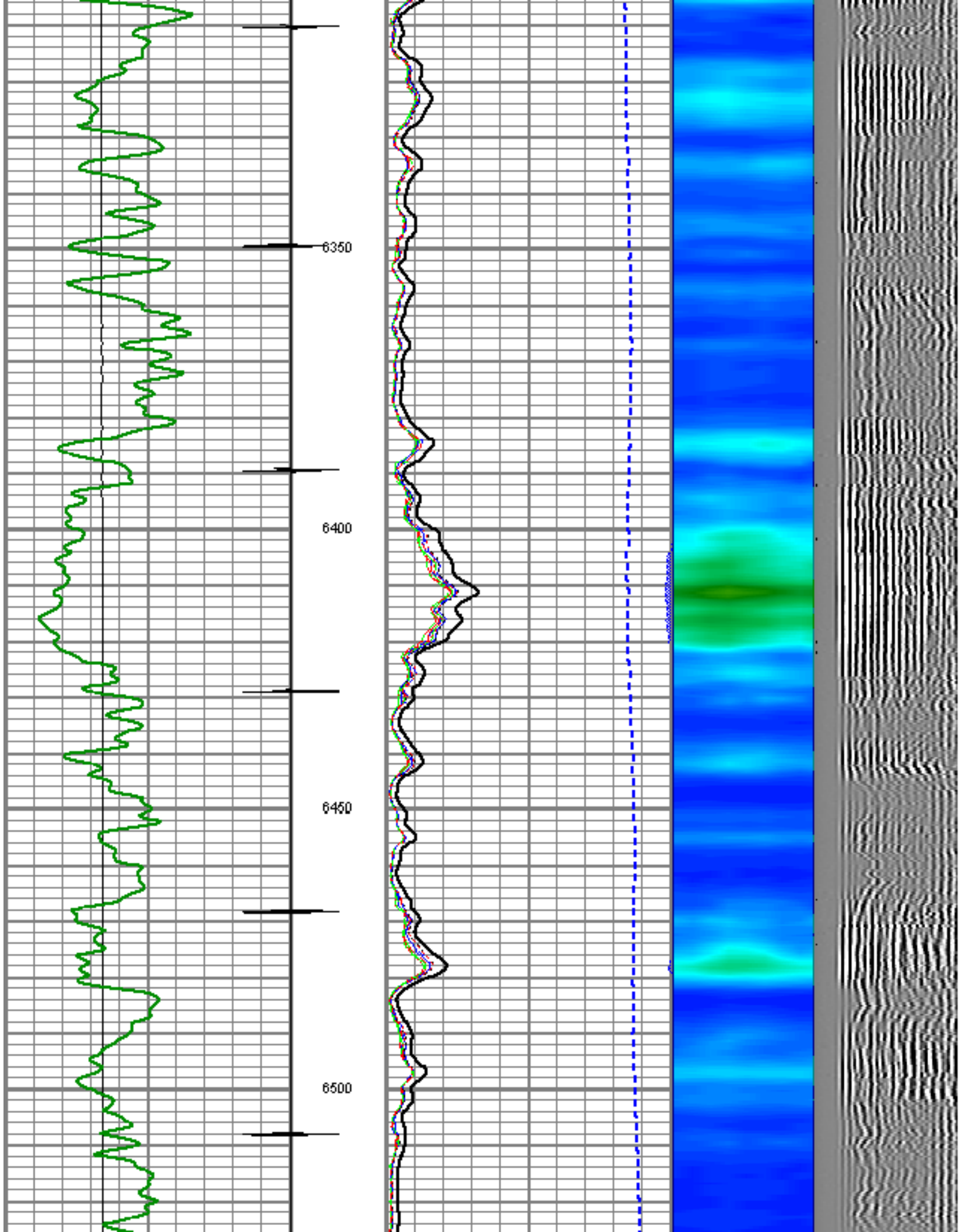


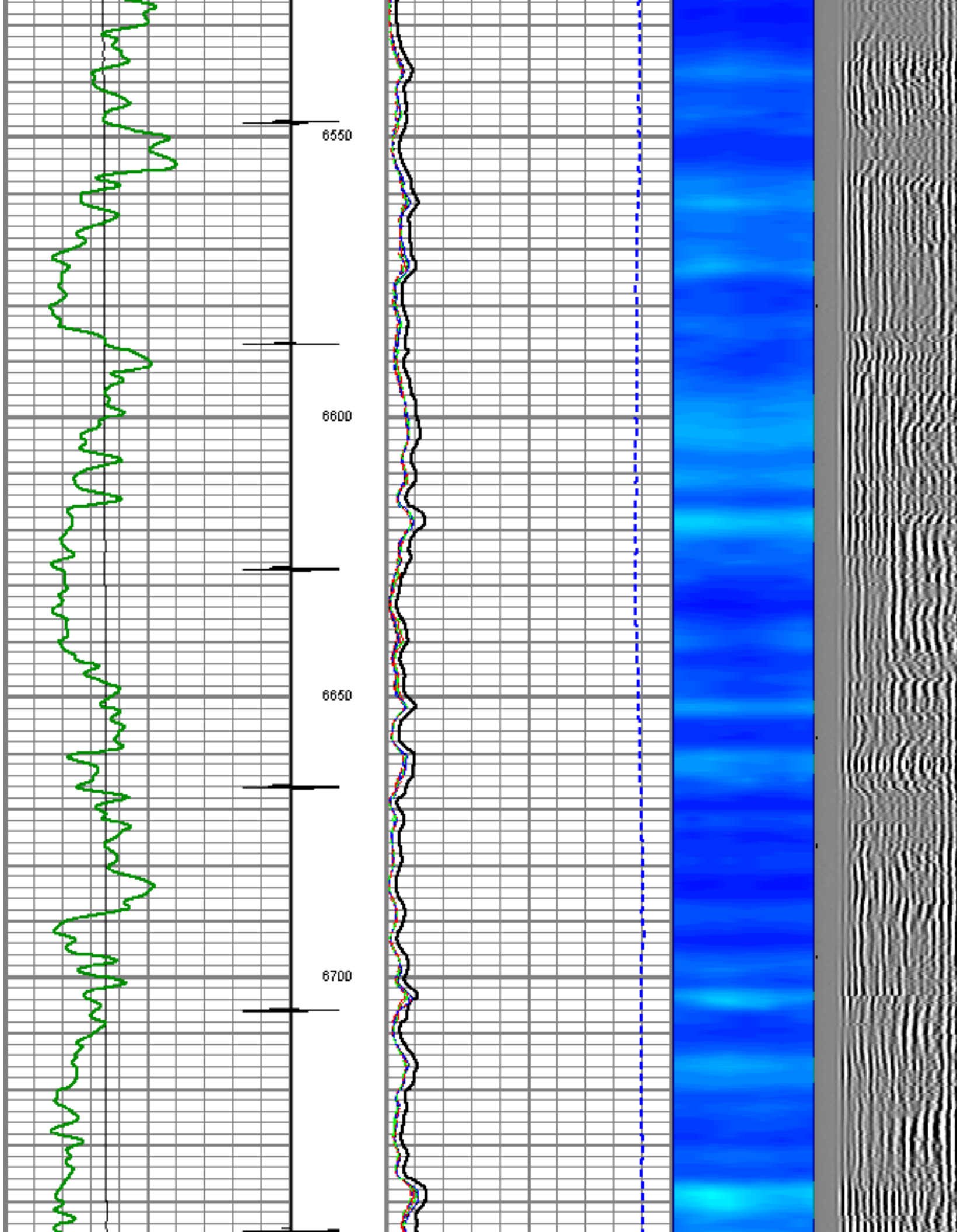


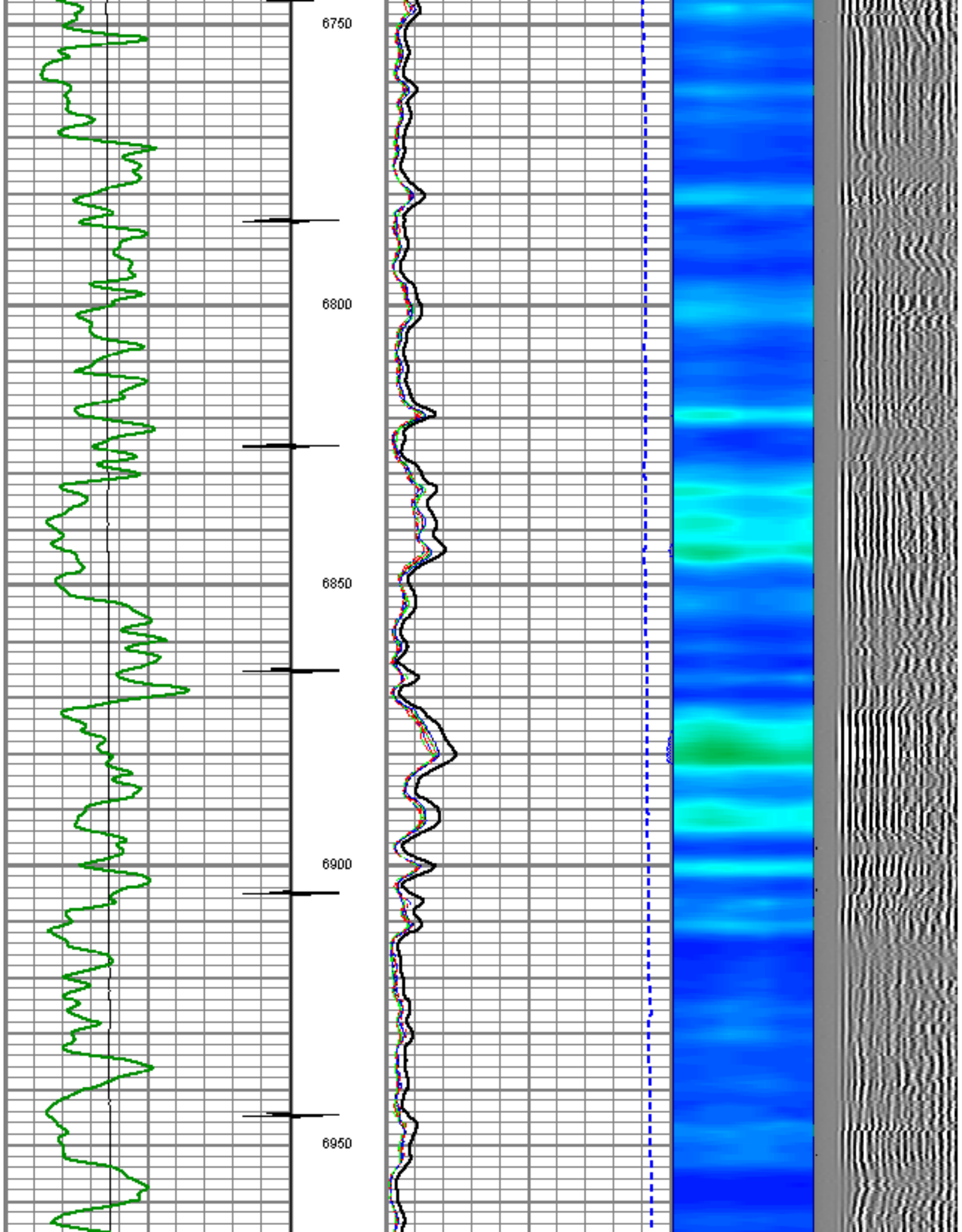




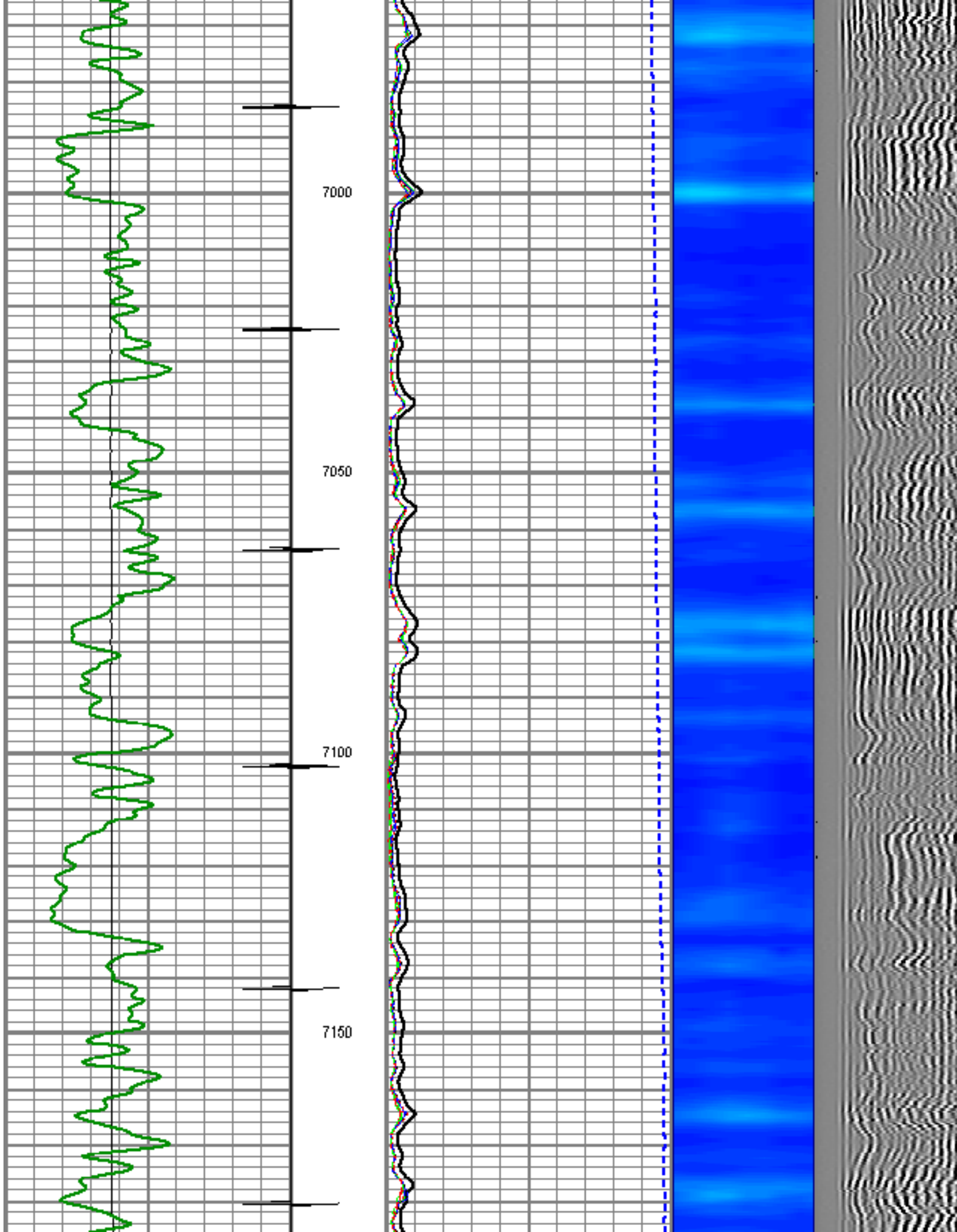


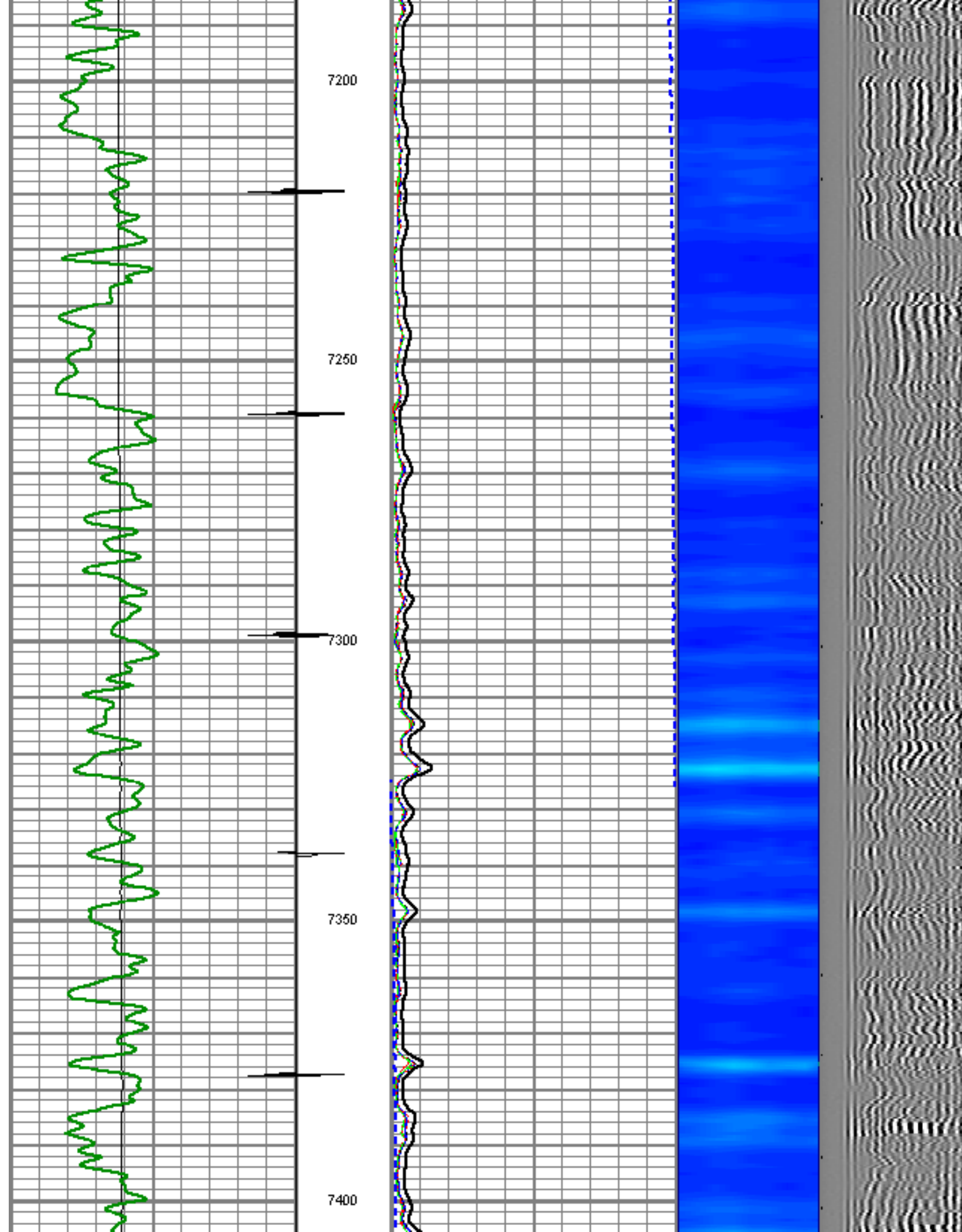


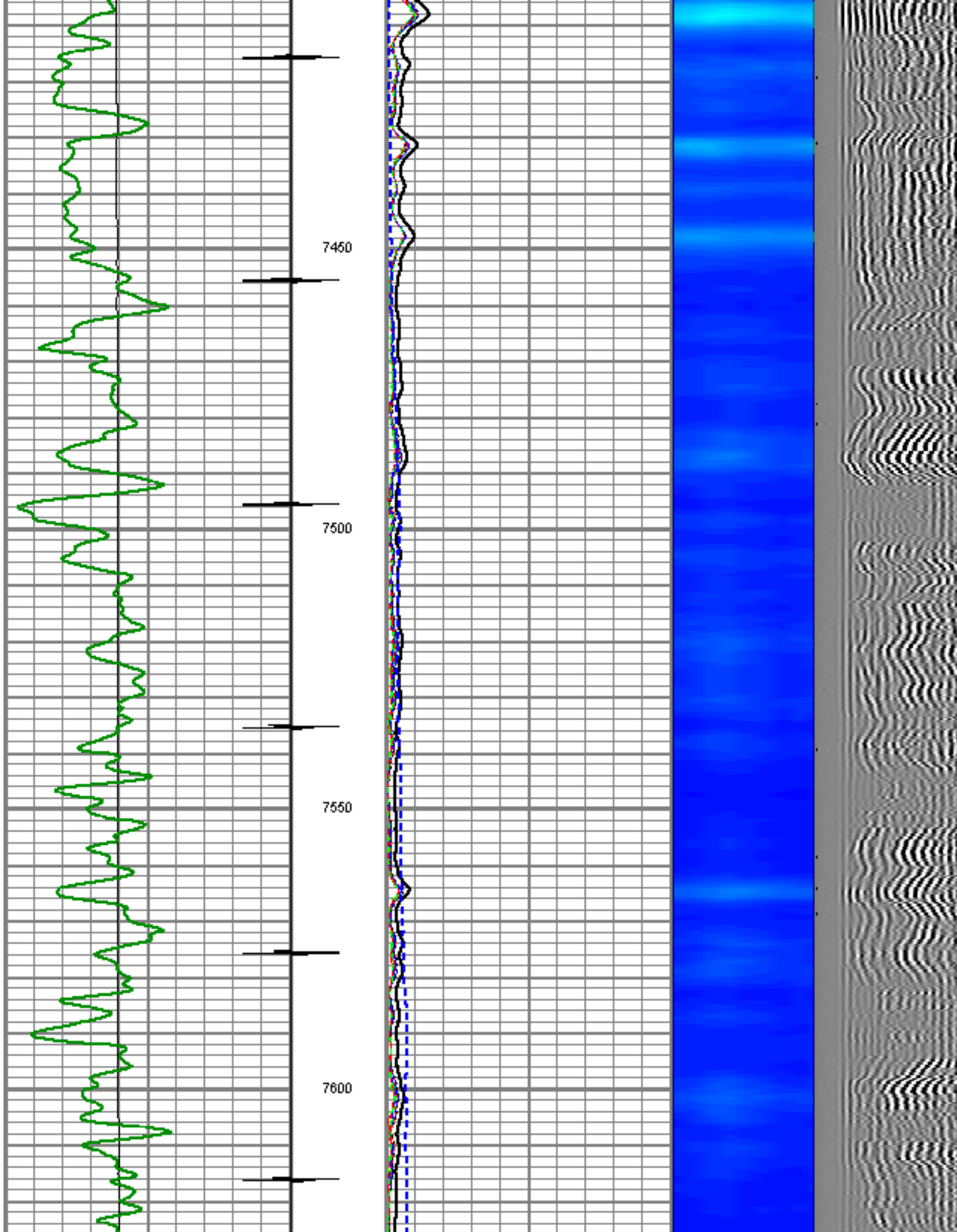




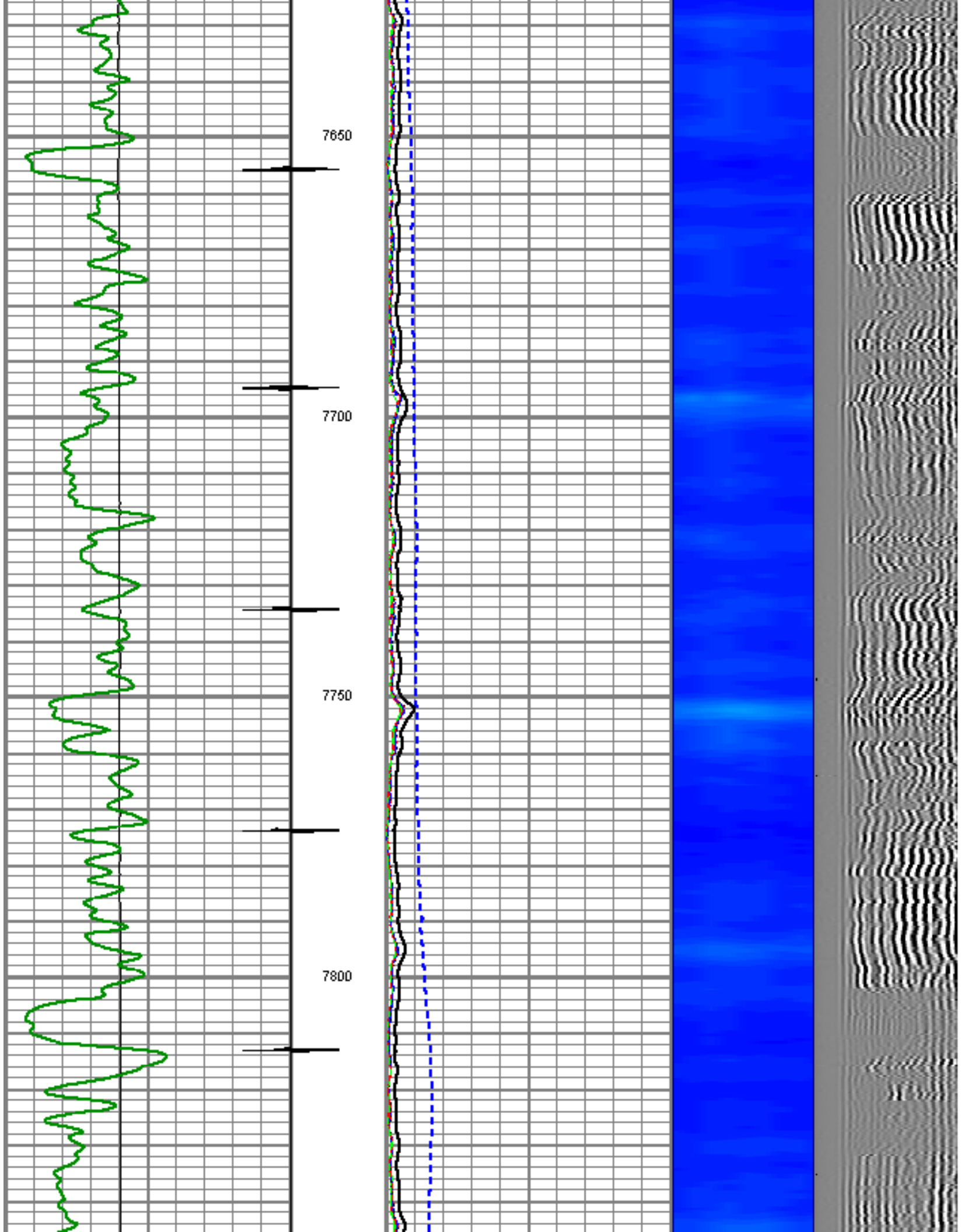


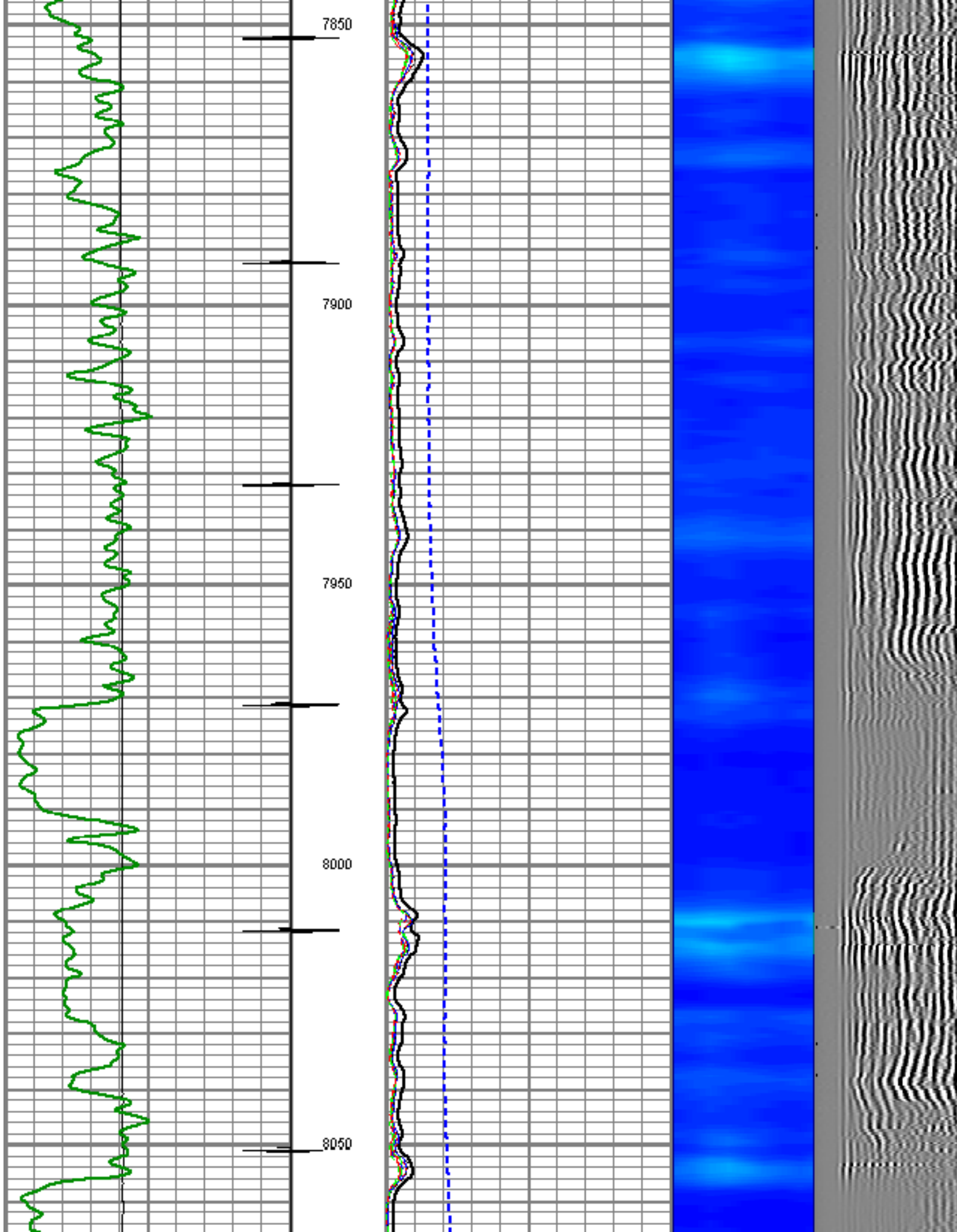


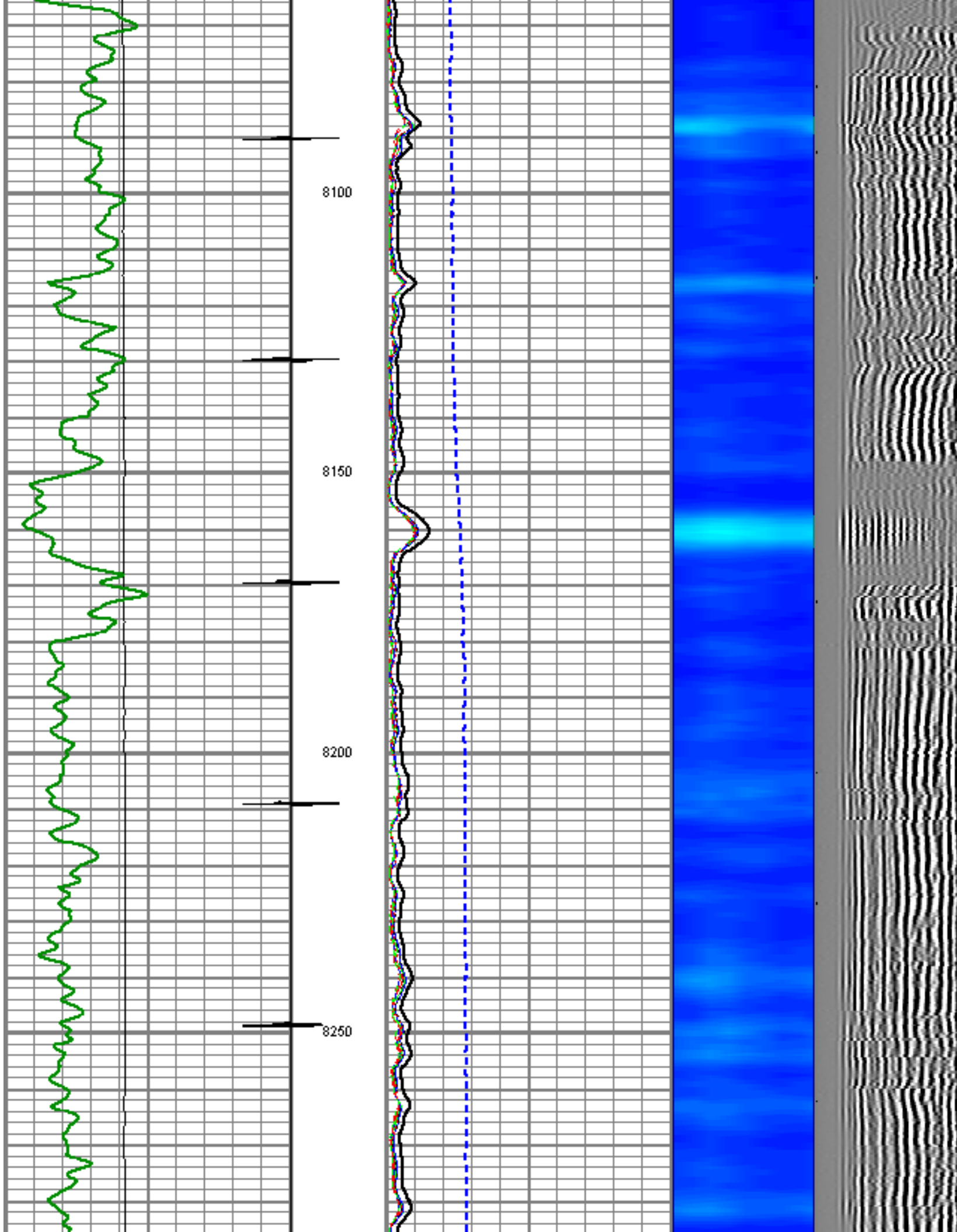




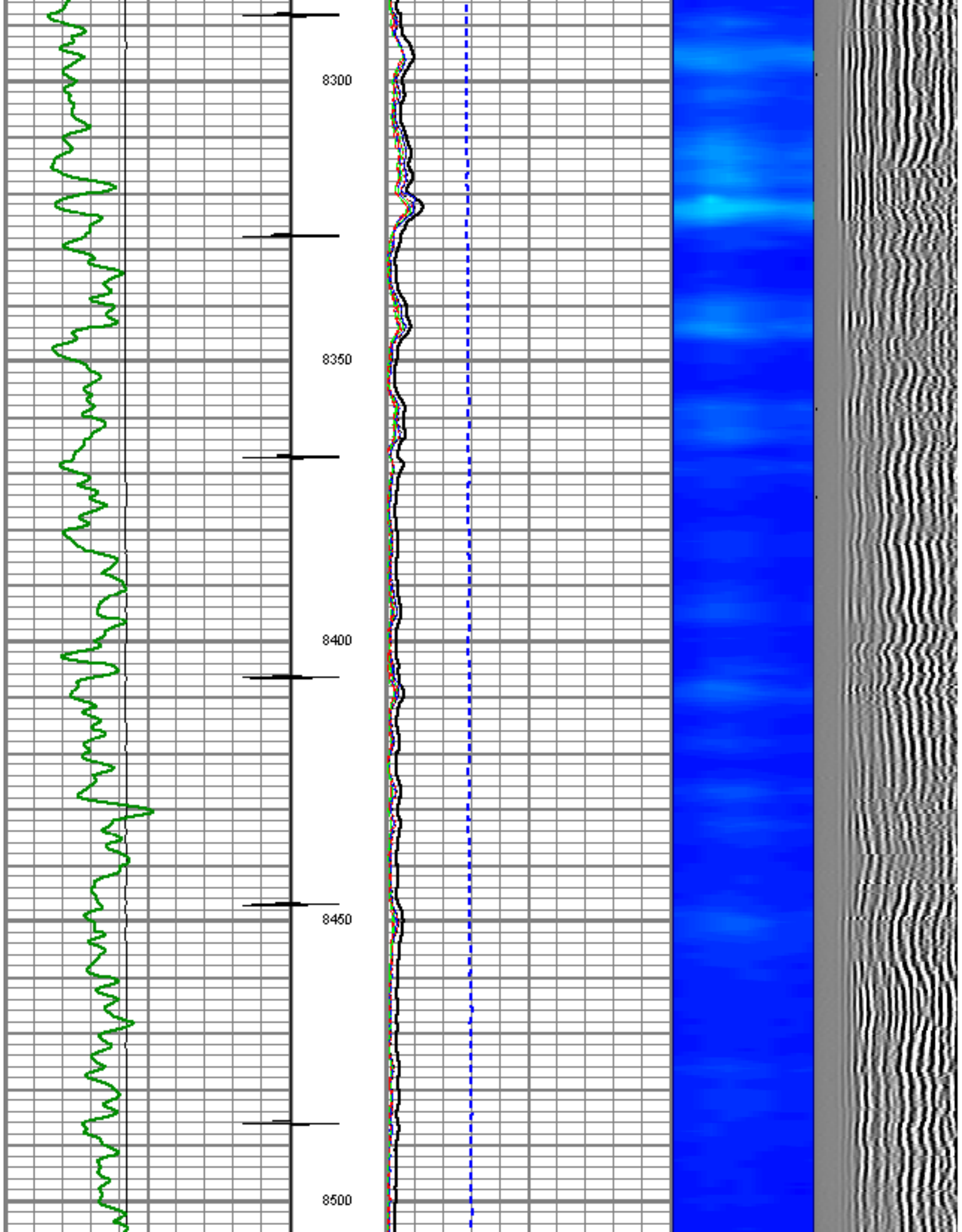


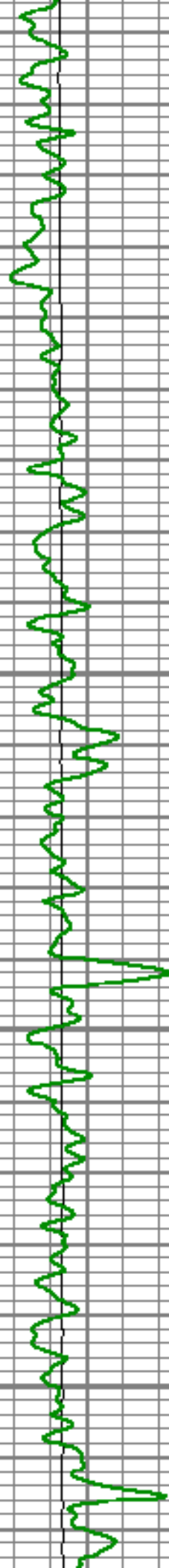












8550



8600

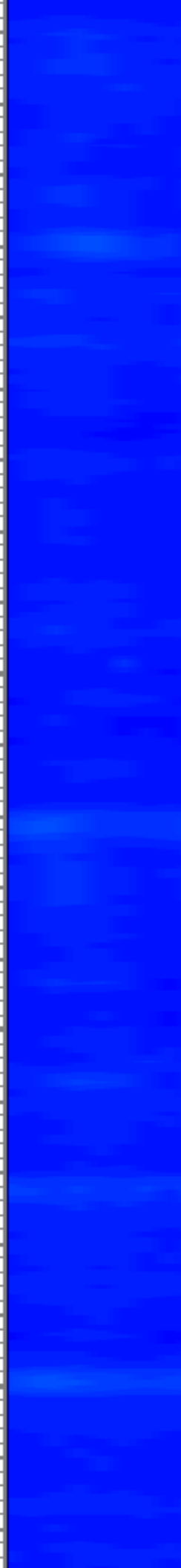


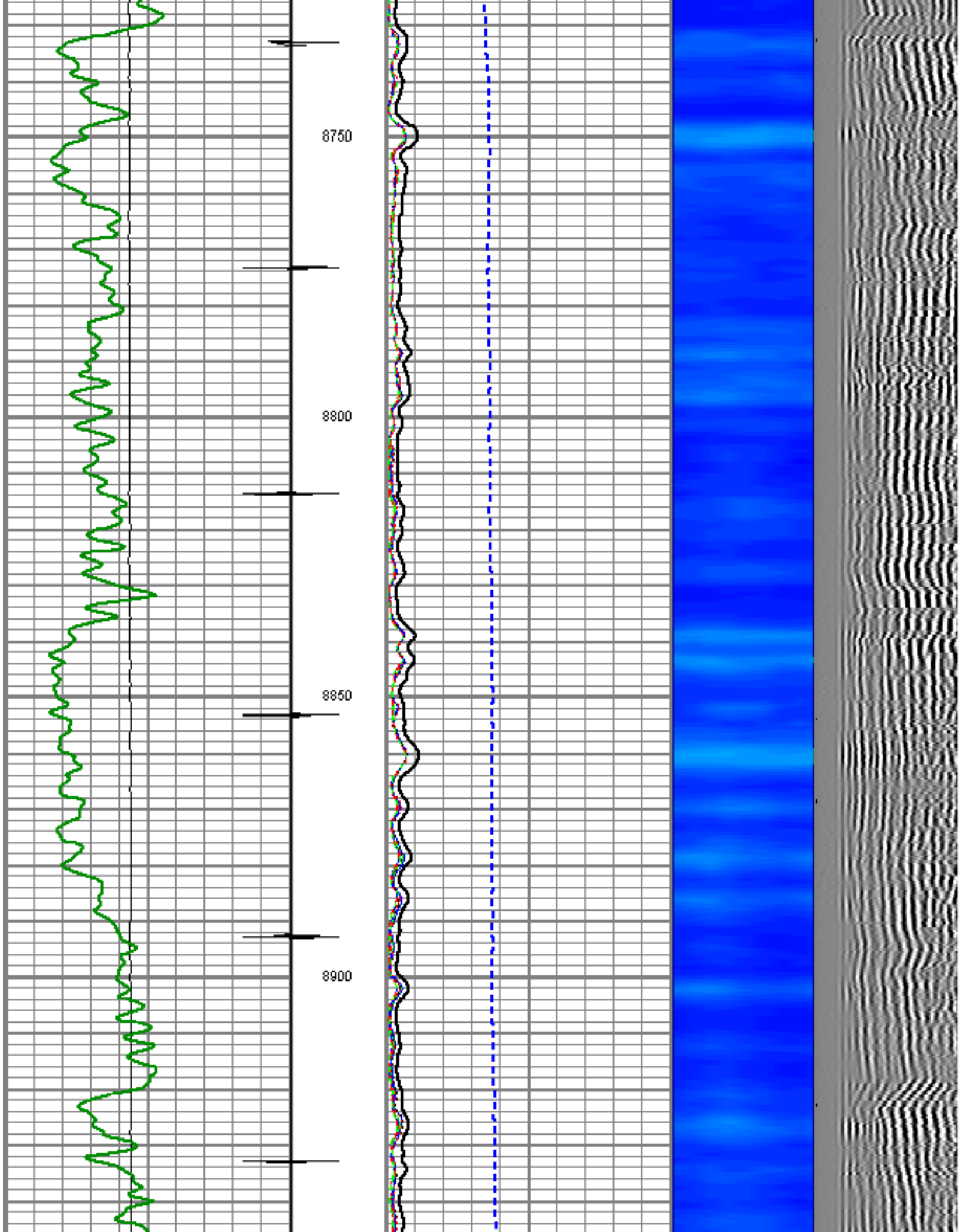
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SHORT JOINT

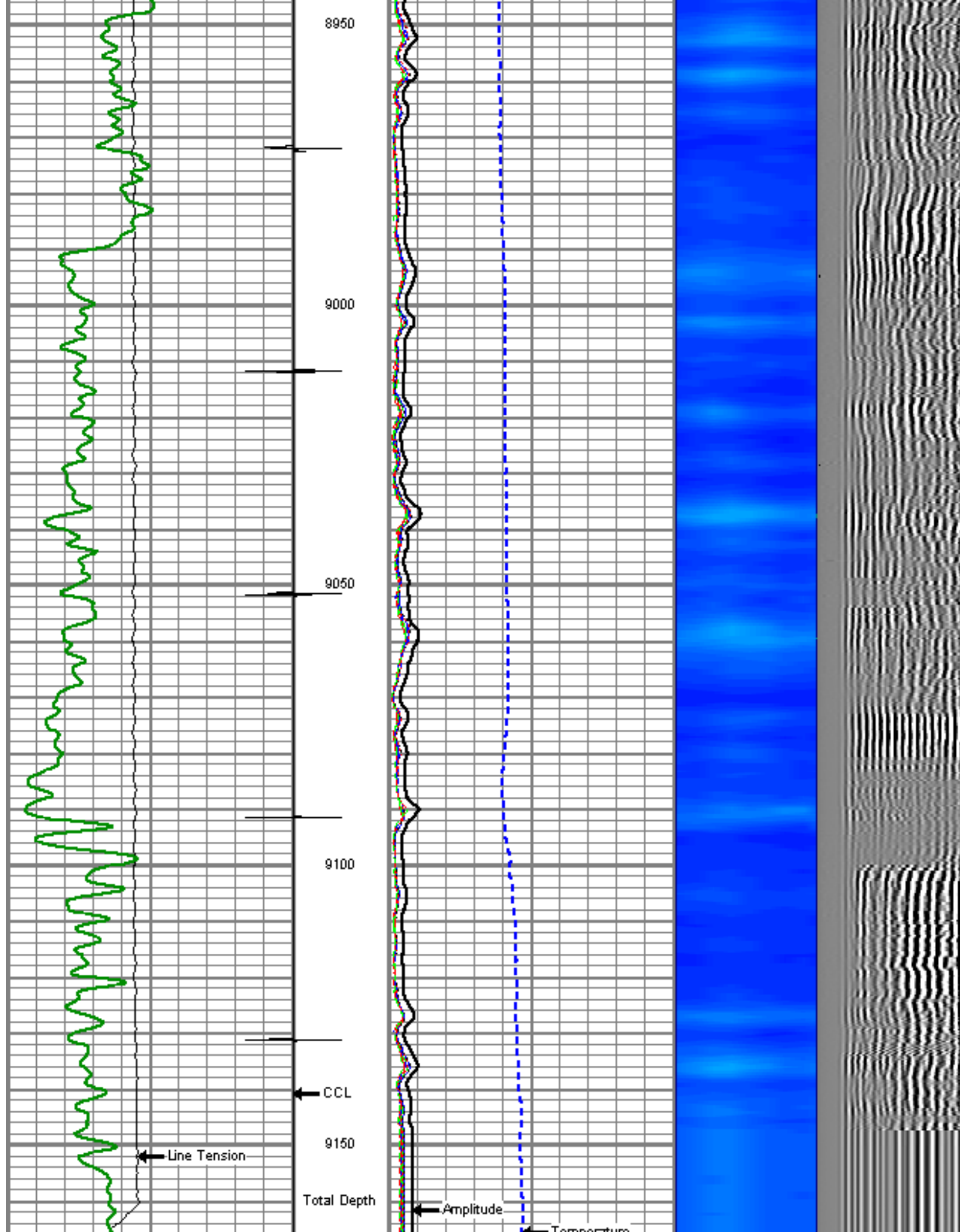


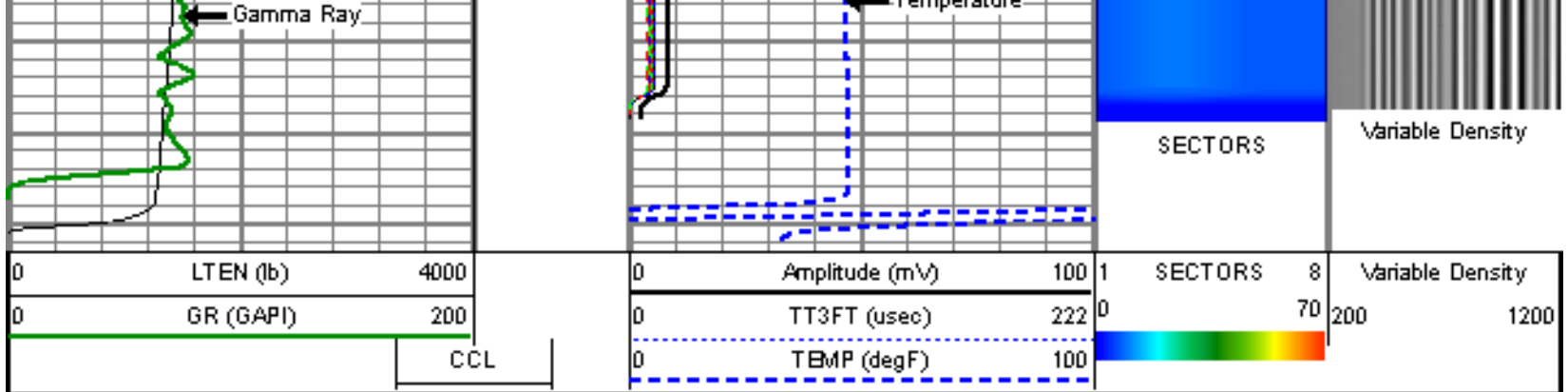
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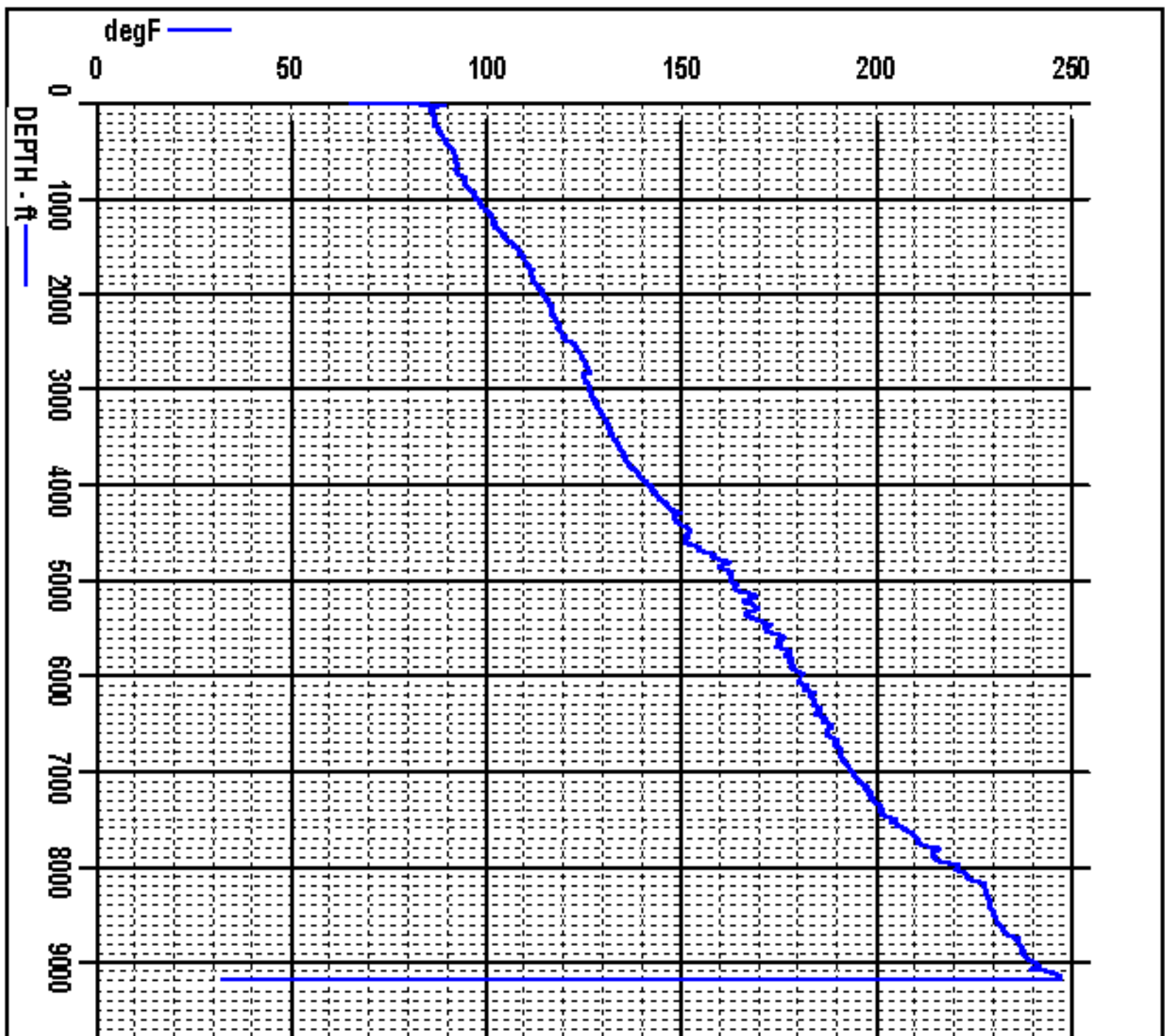












## TEMPERATURE PLOT



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) CSS Gamma Ray CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00
W/VF3FT	13.92		SNDX_RBT-007 (000002) Radial Bore Tool - Analog 3 1/8	9.47	3.13	140.00
W/VFS1	13.92					
W/VFS2	13.92					
W/VFS3	13.92					
W/VFS4	13.92					
W/VFS5	13.92					
W/VFS6	13.92					
W/VFS7	13.92					
W/VFS8	13.92					
W/VF5FT	12.92					
GR	5.17		SONDEX	2.71	2.75	32.00
			SNDX_GR-SNDX_3_13_GR (000001) Sondex Production Gamma Ray	2.94	3.13	22.05
			TEMP-SNDX_TEMP (SNDX_TEMP_01) Sondex Production Temperature Tool	3.14	1.63	10.00



TEMP	0.58					
Dataset: a_coloa4cbl.db: field/well/run1/pass4 Total Length: 23.90 ft Total Weight: 248.07 lb O.D.: 3.13 in						

	Company	ANTERO RESOURCES CORPORATION
	Well	COLOROSO A3
	Field	MAMM CREEK
	County	GARFIELD
	State	COLORADO