



Mesa Wireline

CEMENT BOND LOG

Company	BLACK HILLS PLATEAU CORP.
Well	WHF DHS-3C-19 D17 998
Field	BRANCO FLATS
County	MESA
State	COLORADO
Location:	APL #: 05-077-10200-0000
SEC. 17 TWP. 9S RGE. 98W	SHL: 975' FNL & 796' FWL
Permanent Datum	GROUND LEVEL
Log Measured From	Elevation 5773
Drilling Measured From	KELLY BUSHING = 24 FT
	Elevation K.B. 5797' D.F. 5796' G.L. 5773'
Other Services	NONE

Date	28 JUNE 2013					
Run Number	ONE					
Depth Driller	5774'					
Depth Logger	5764'					
Bottom Logged Interval	5764'					
Top Log Interval	SURFACE					
Open Hole Size	9.875"					
Type Fluid	WATER					
Density / Viscosity	8.34 LBS/GAL					
Max. Recorded Temp.	160 DEG F					
Estimated Cement Top	865'					
Time Well Ready	1300					
Time Logger on Bottom	1430					
Equipment Number	FL0401					
Location	GRAND JUNCTION					
Recorded By	M. BERNATCHEZ					
Witnessed By	KIT HATFIELD					
Borehole Record					Tubing Record	
Run Number	Bit	From	To	Size	Weight	From To
Casing Record	Size	Wgt/Ft		Top	Bottom	
Surface String	10.75"			SURFACE	1002'	
Prot. String	7.625"	26.4#		SURFACE	5764'	
Production String						
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

CORRELATED TO THE SCHLUMBERGER LOG DATED 26-JUN-2013 AT THE DV TOOL.

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0458



MAIN LOG PASS

SCALE 5" = 100'

Mesa Wireline

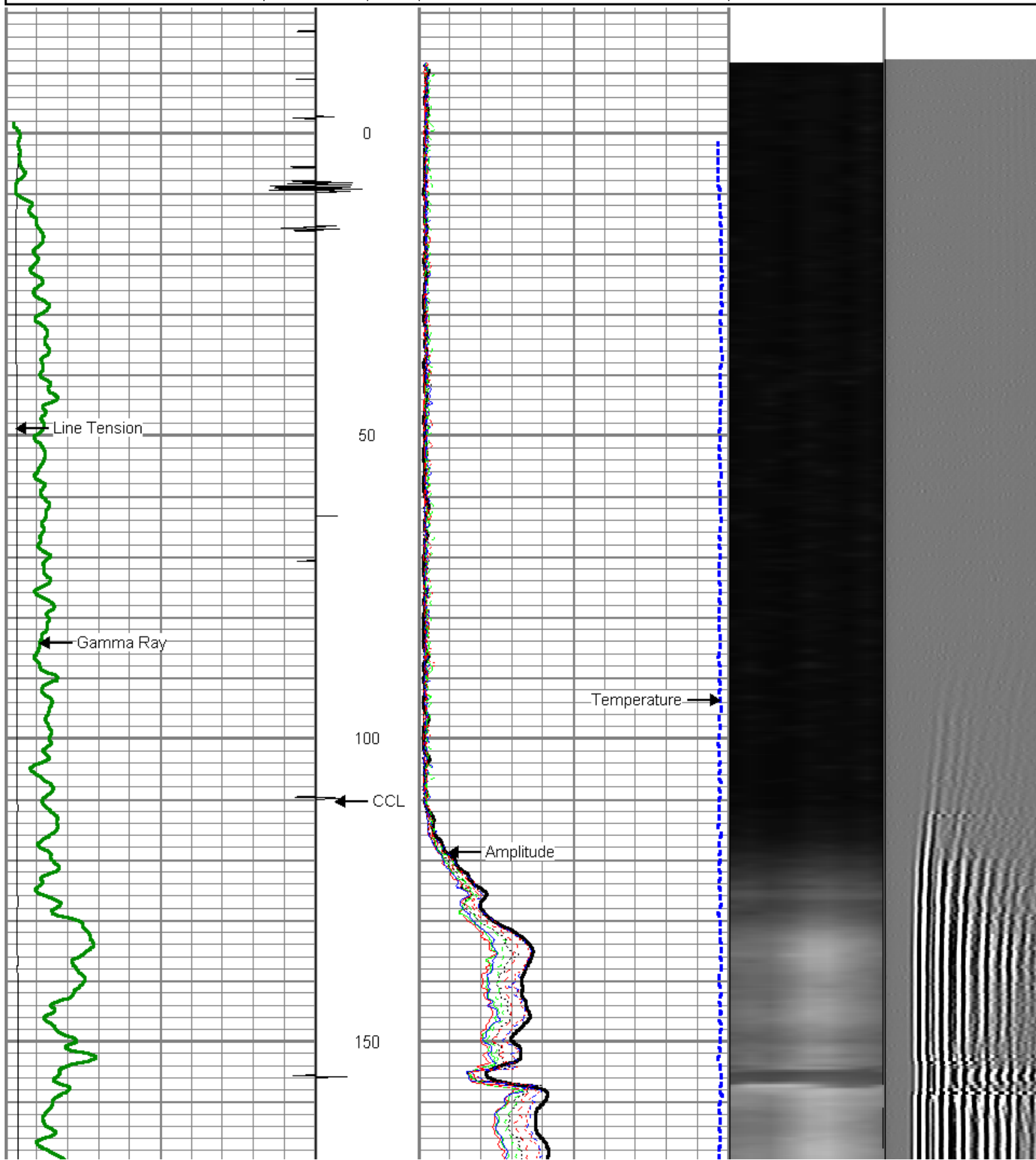
Database File: dhs 3c-19.db
Dataset Pathname: pass3
Presentation Format: rbt_fin
Dataset Creation: Fri Jun 28 16:59:16 2013
Charted by: Depth in Feet scaled 1:240

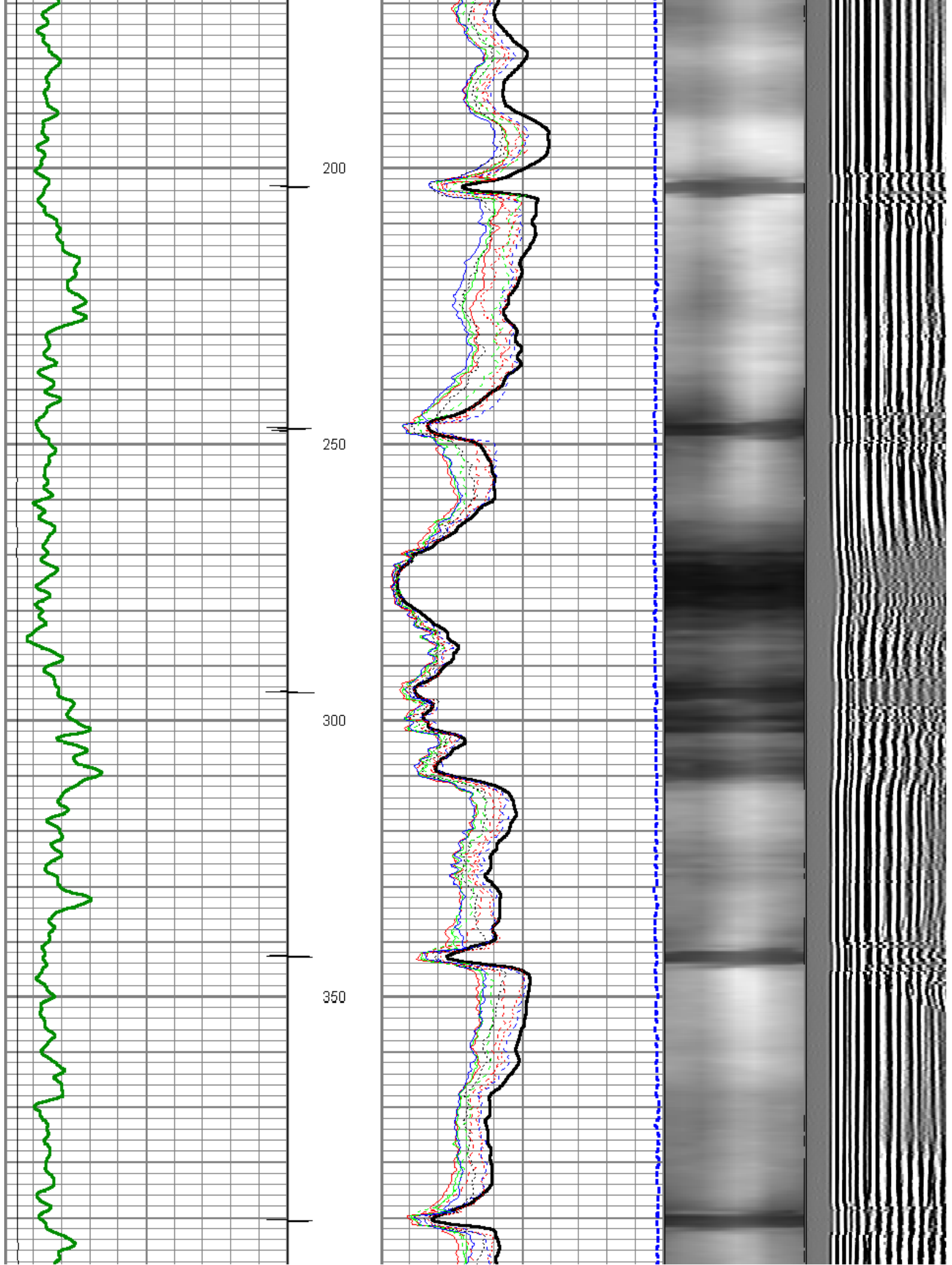
0	LTEN (lb)	4000
0	GR (GAPI)	200

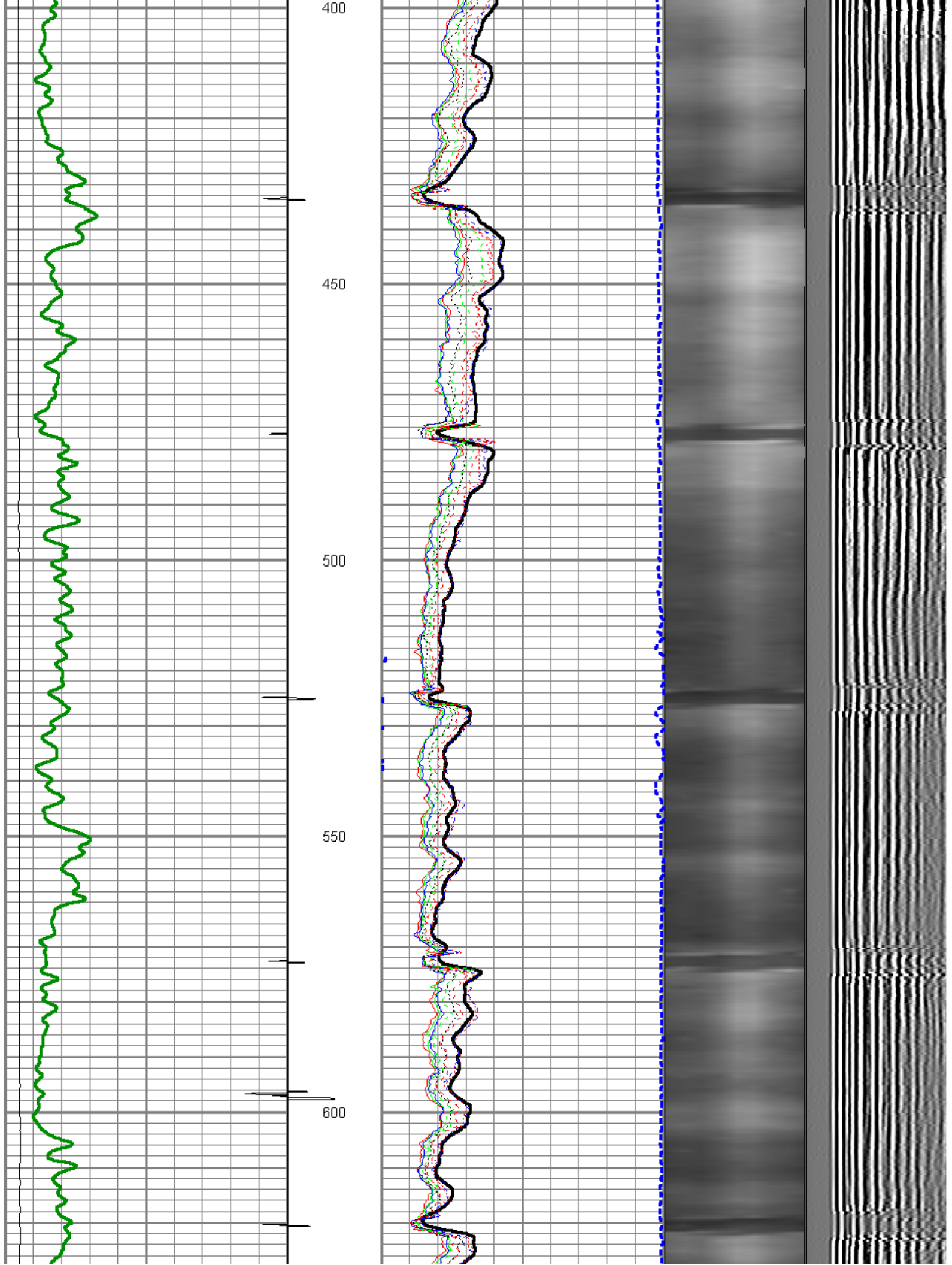
CCL

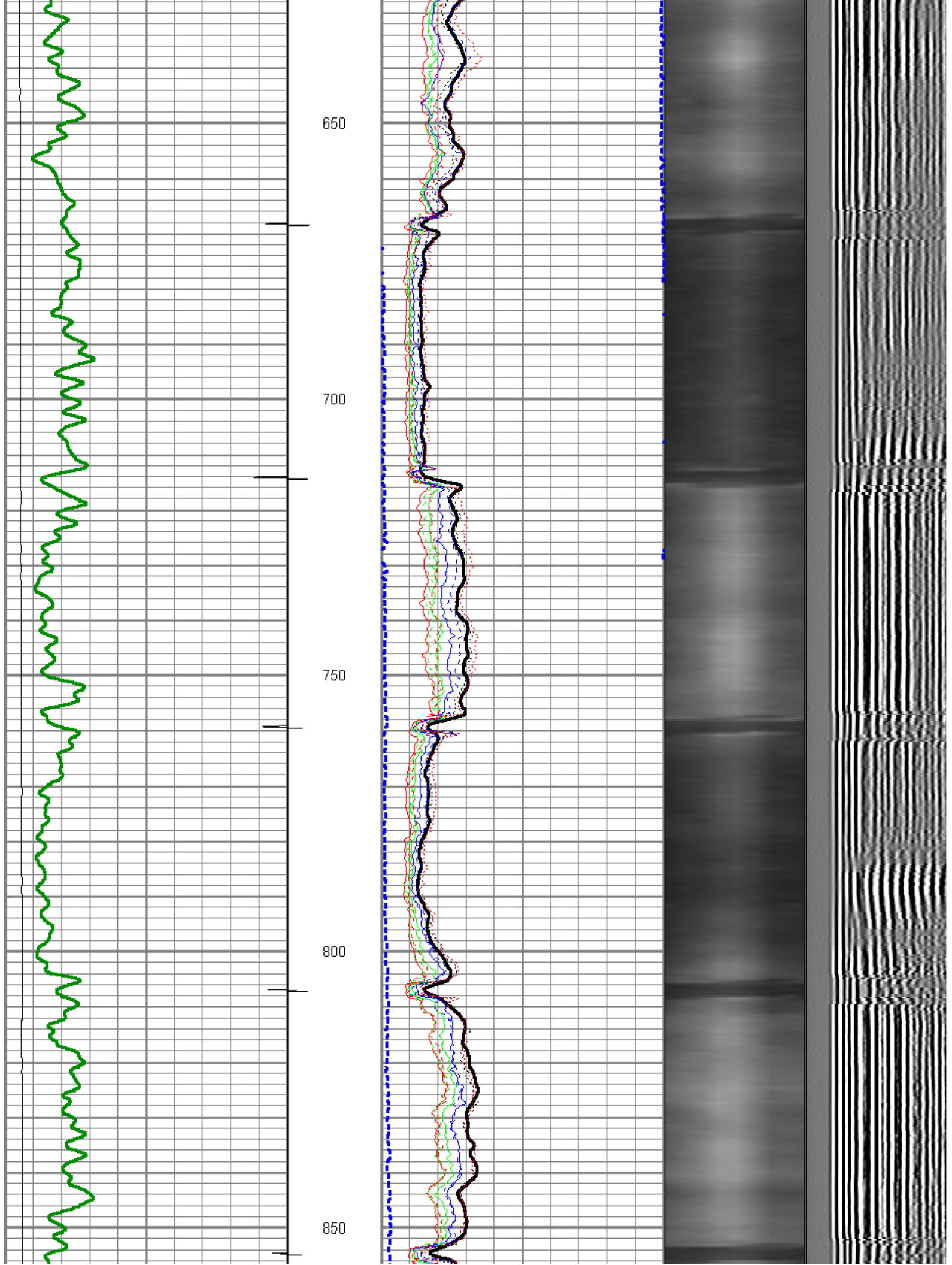
0	Amplitude (mV)	100
0	TT3FT (usec)	195
0	TEMP (degF)	100

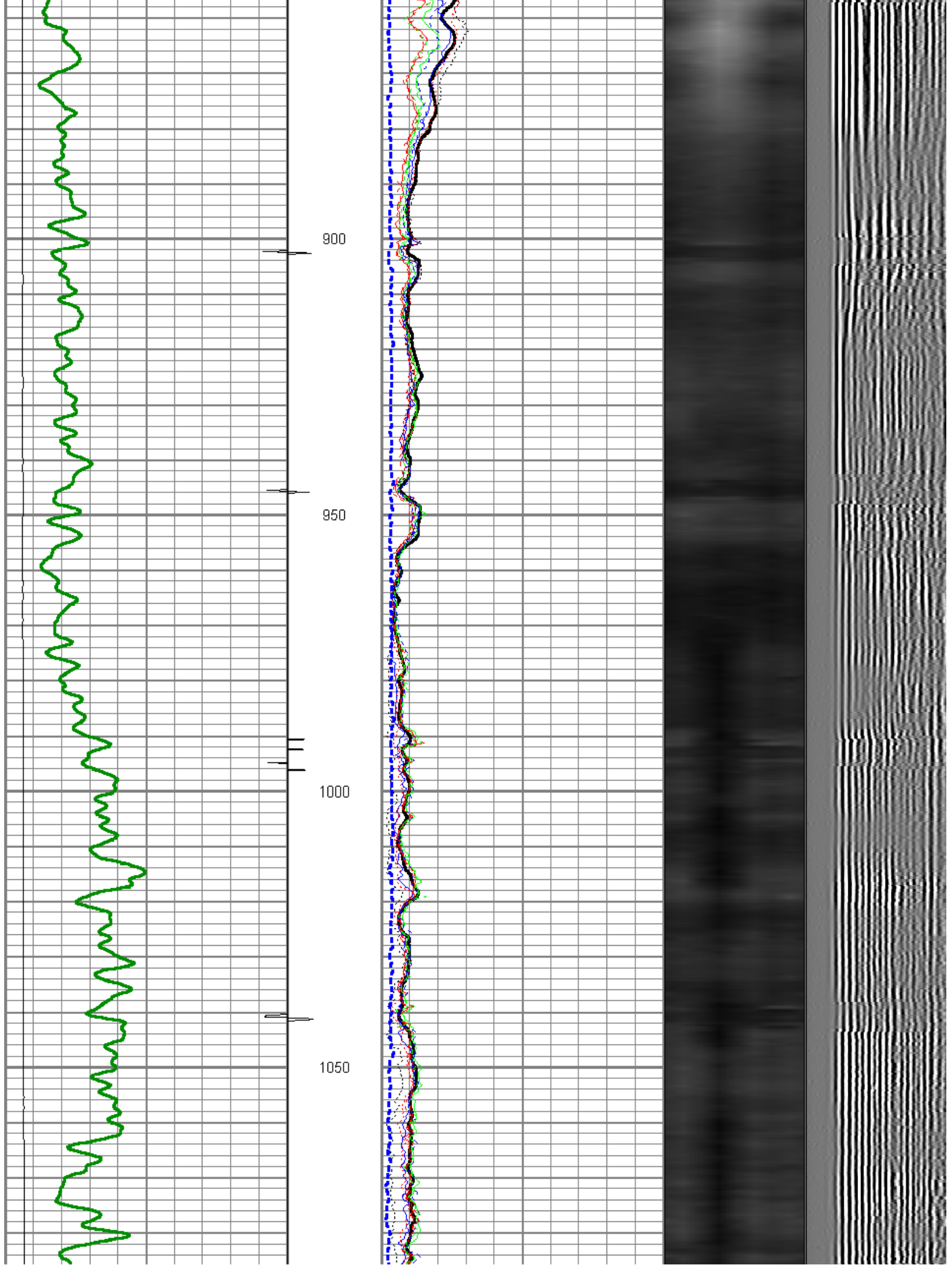
1	SECTORS	8	Variable Density
0		82	200 1200

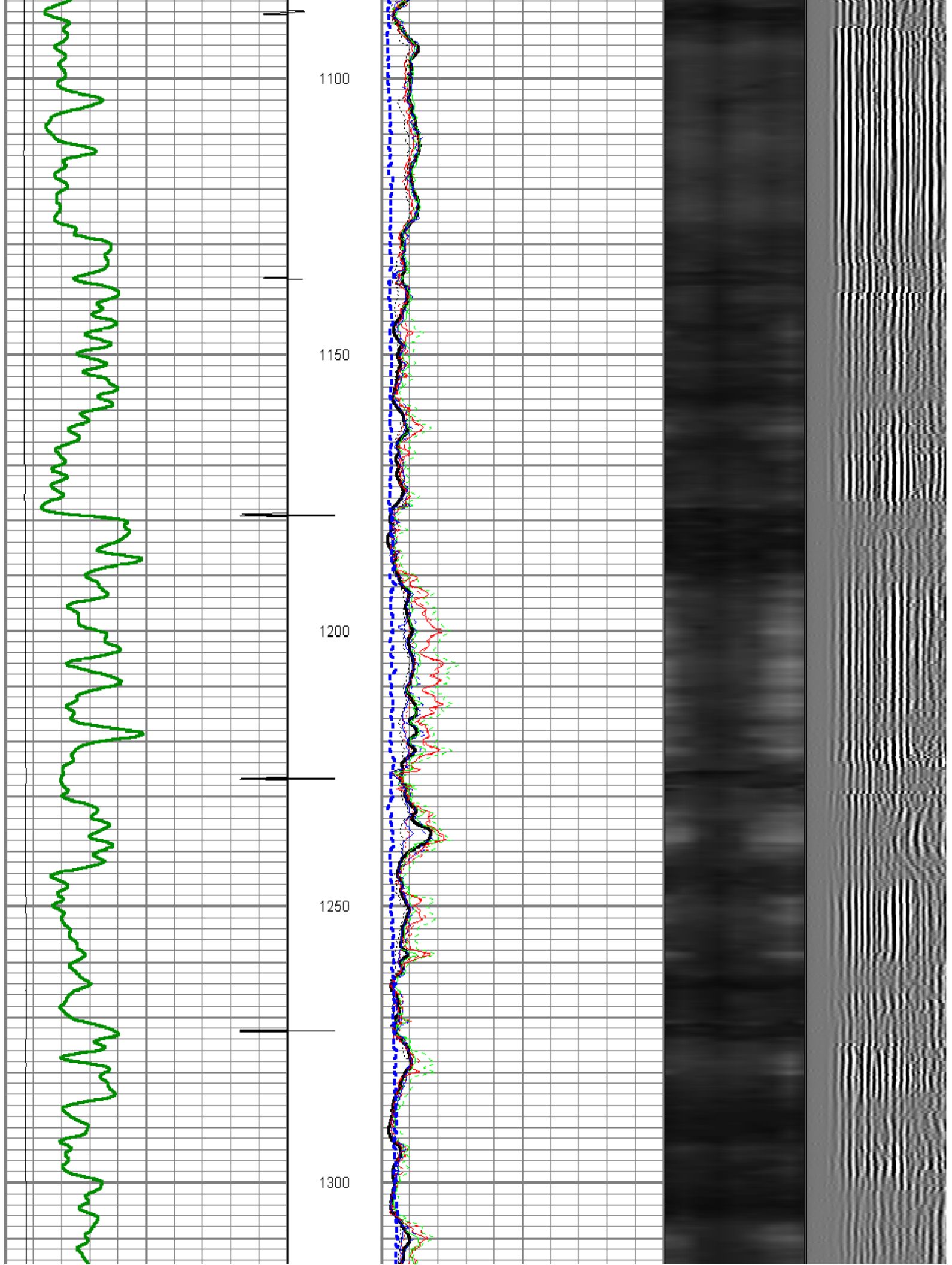


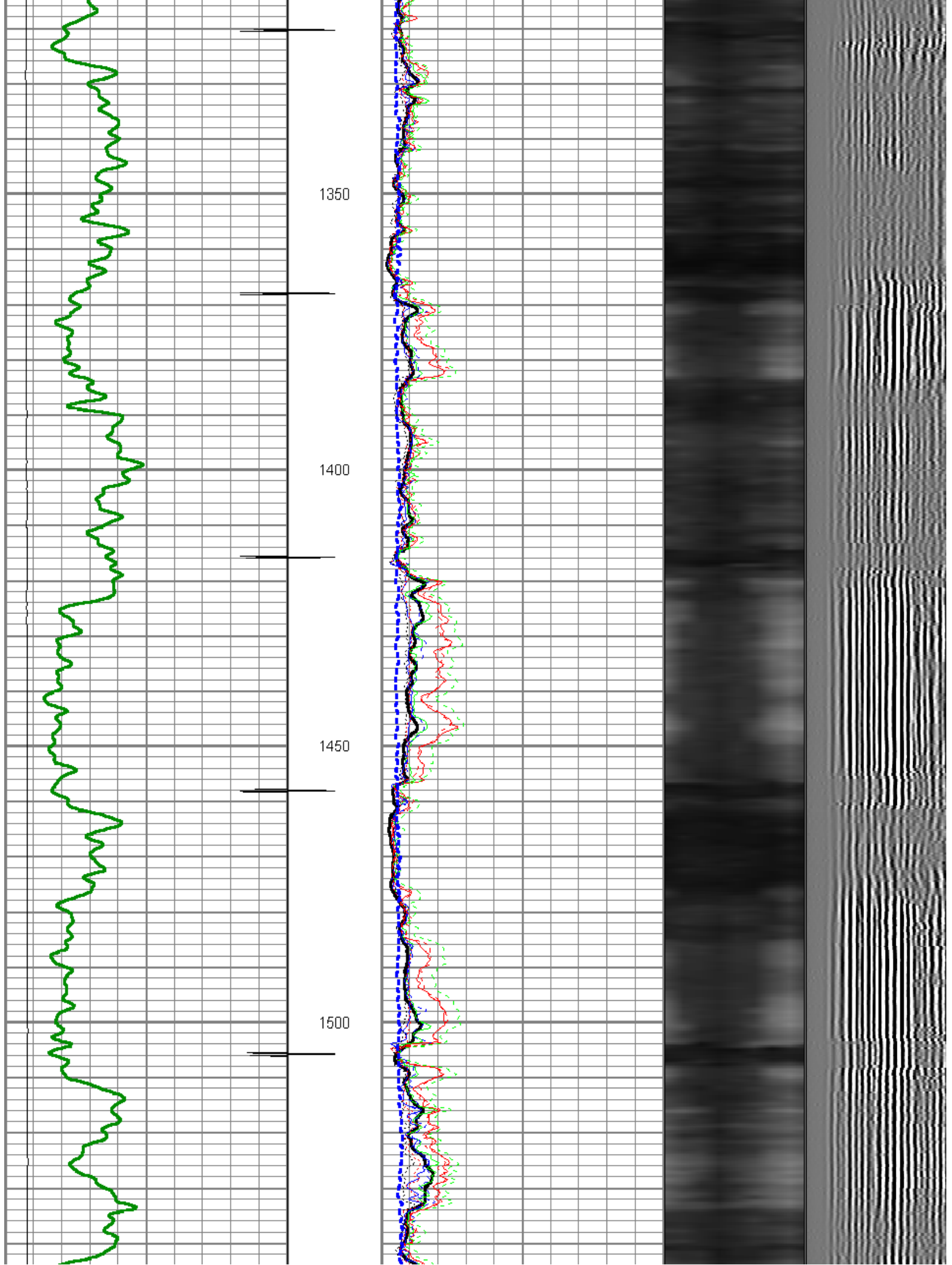


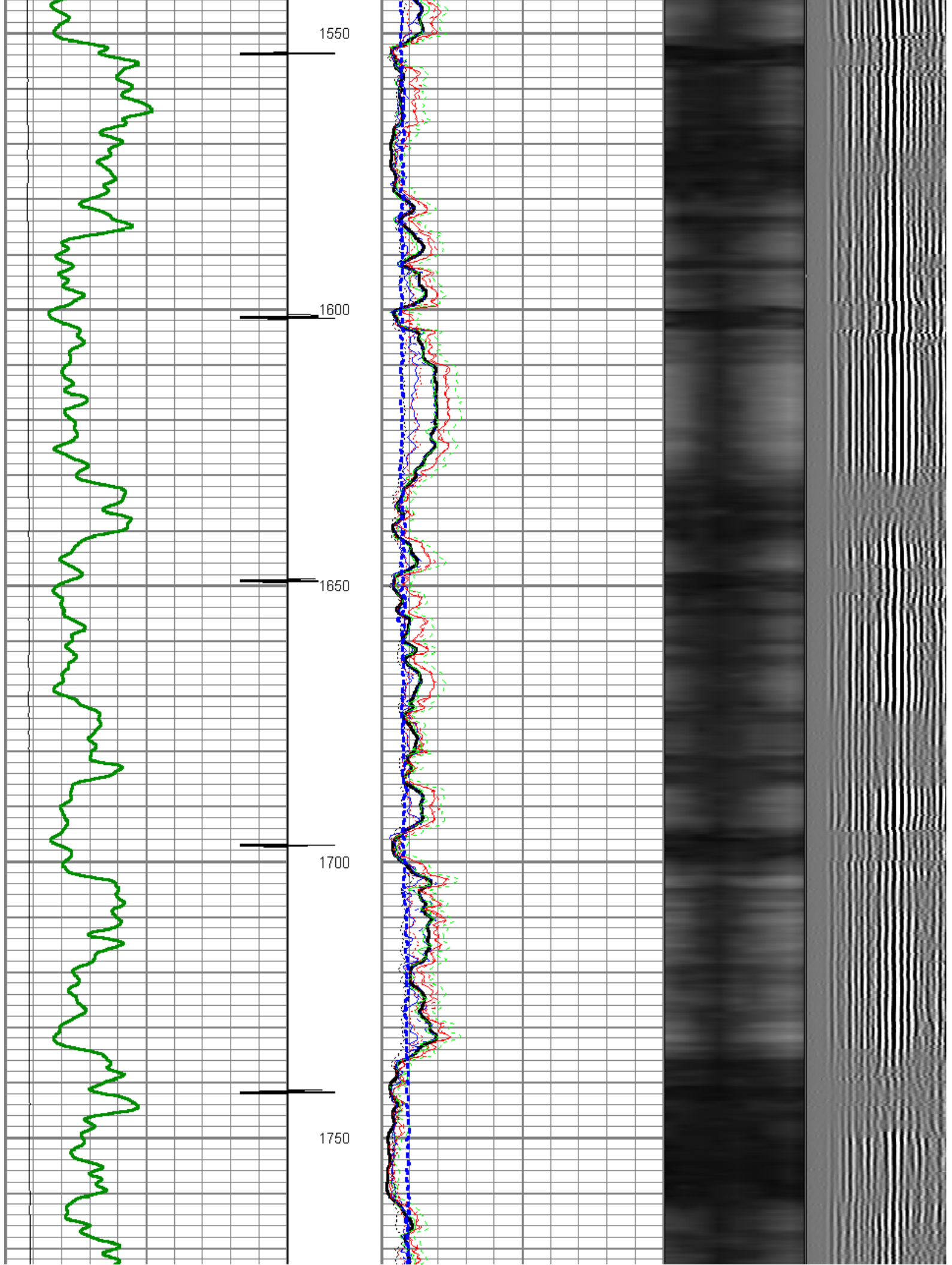


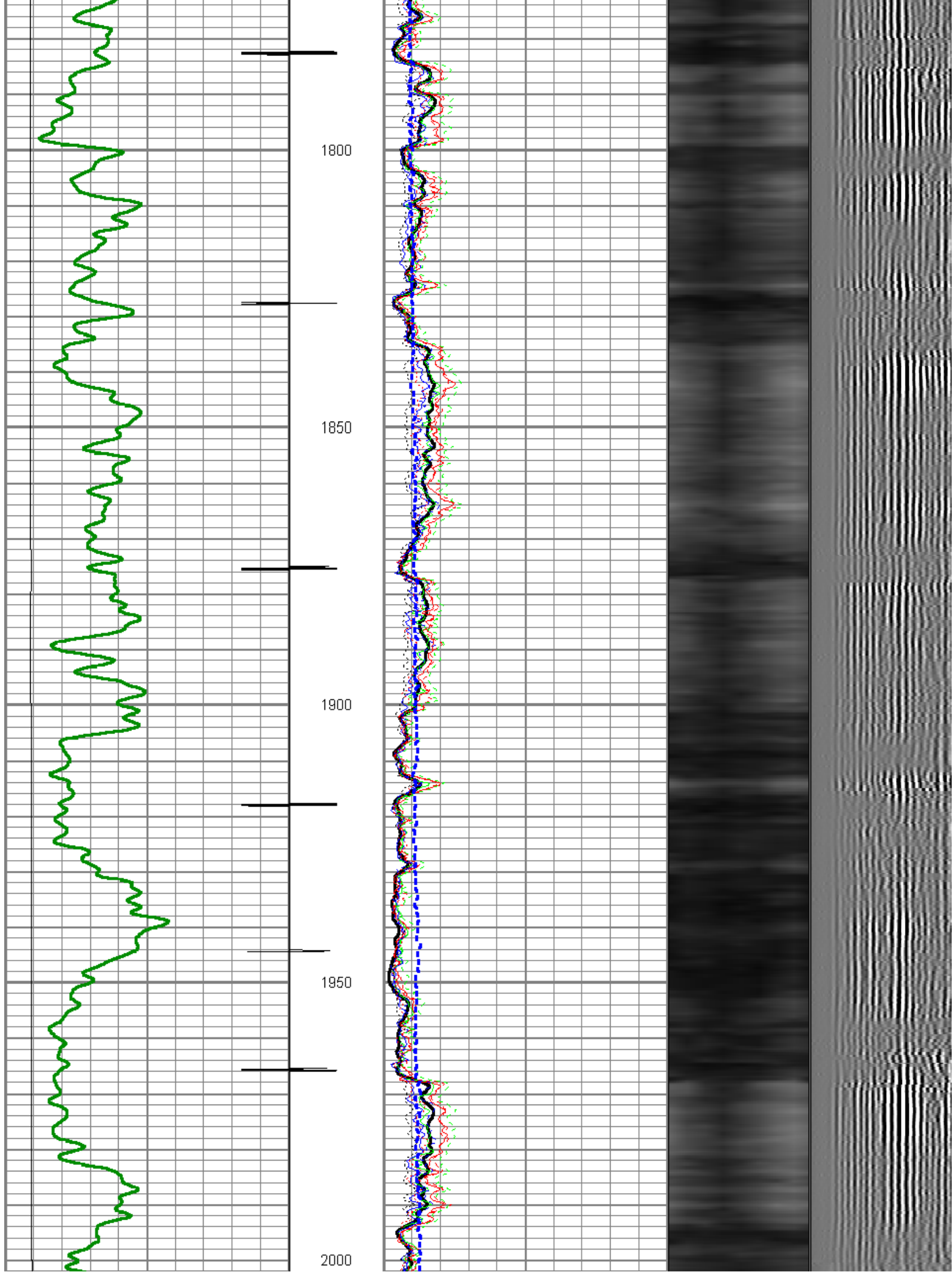


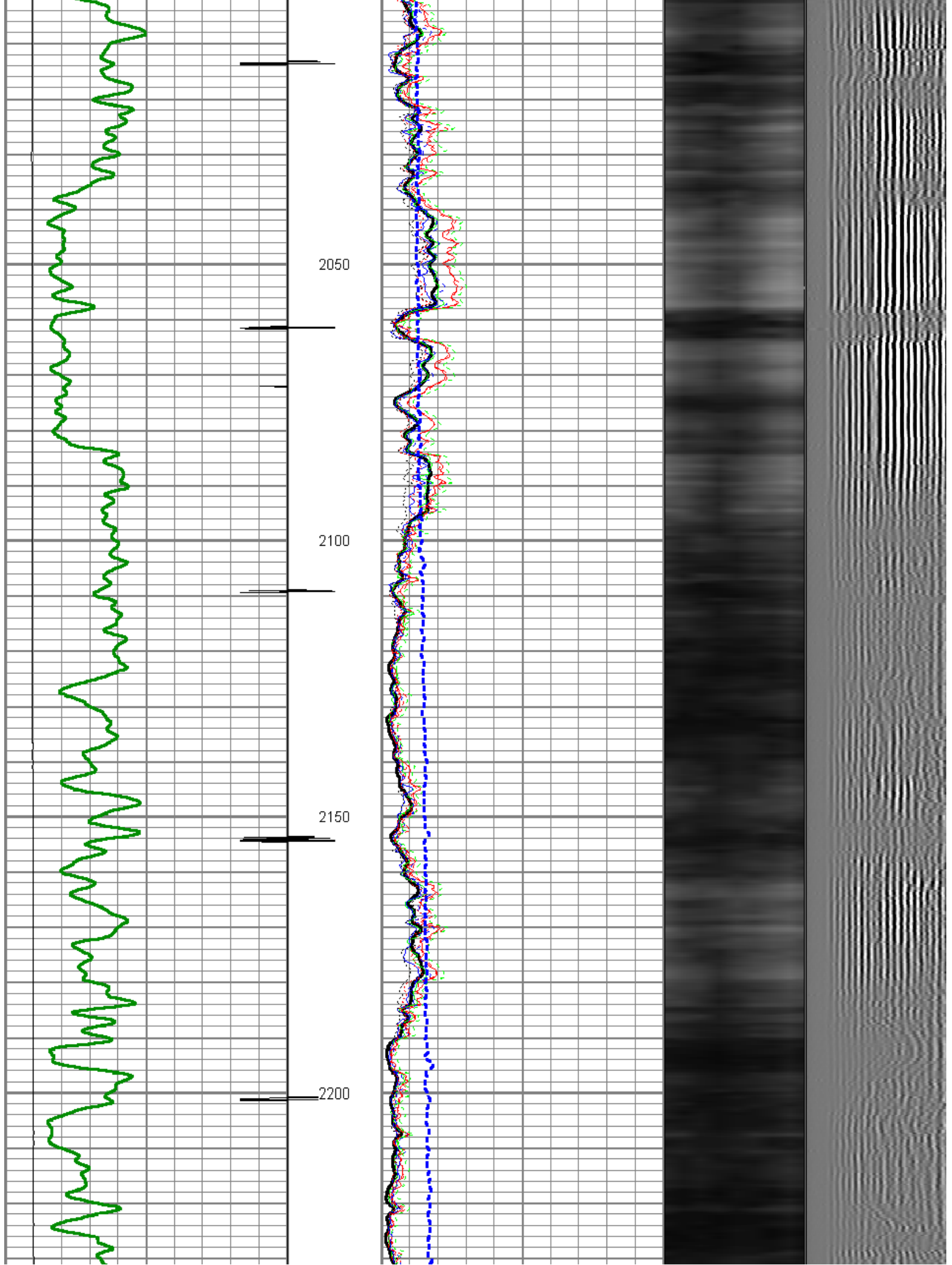


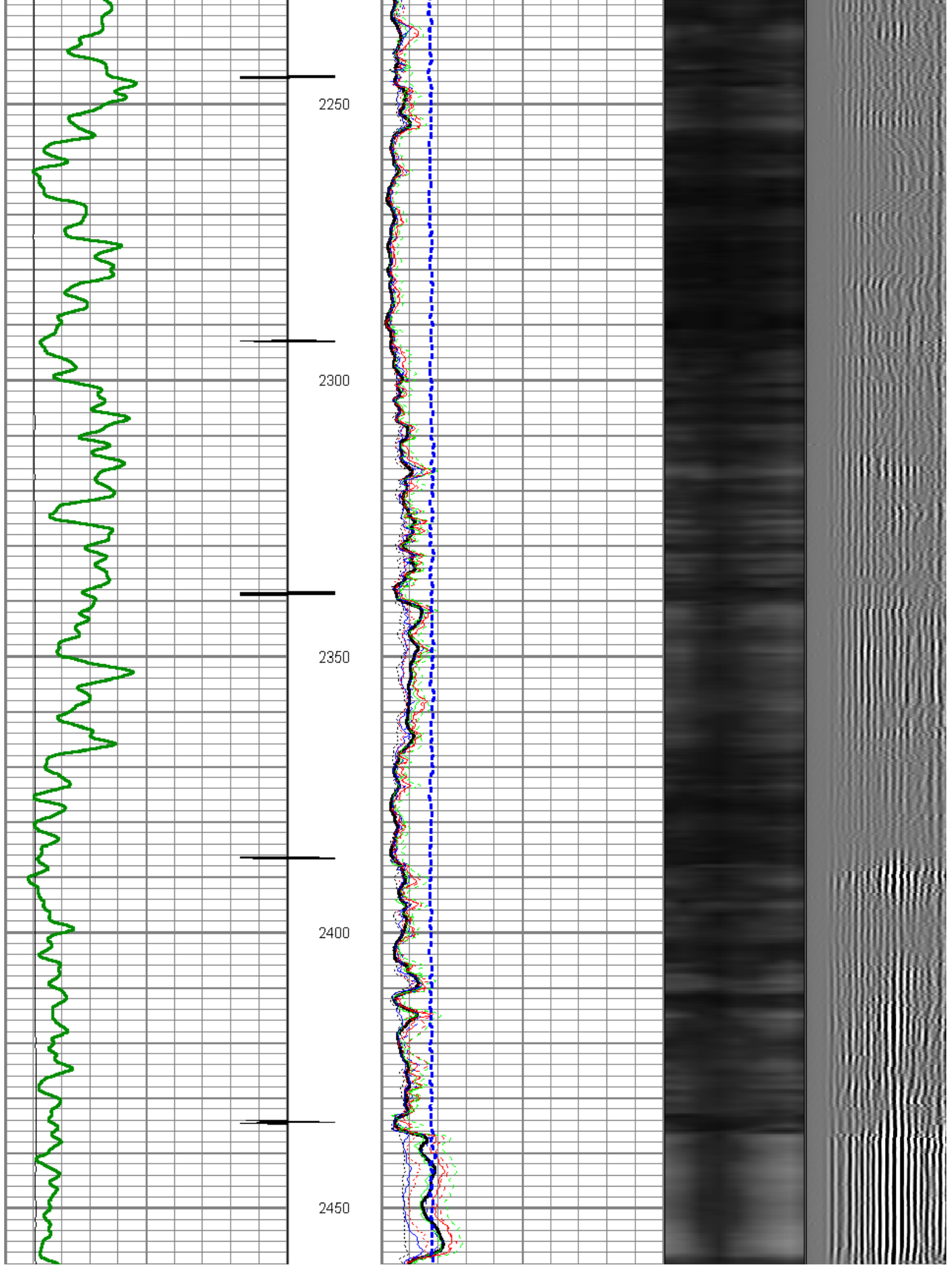


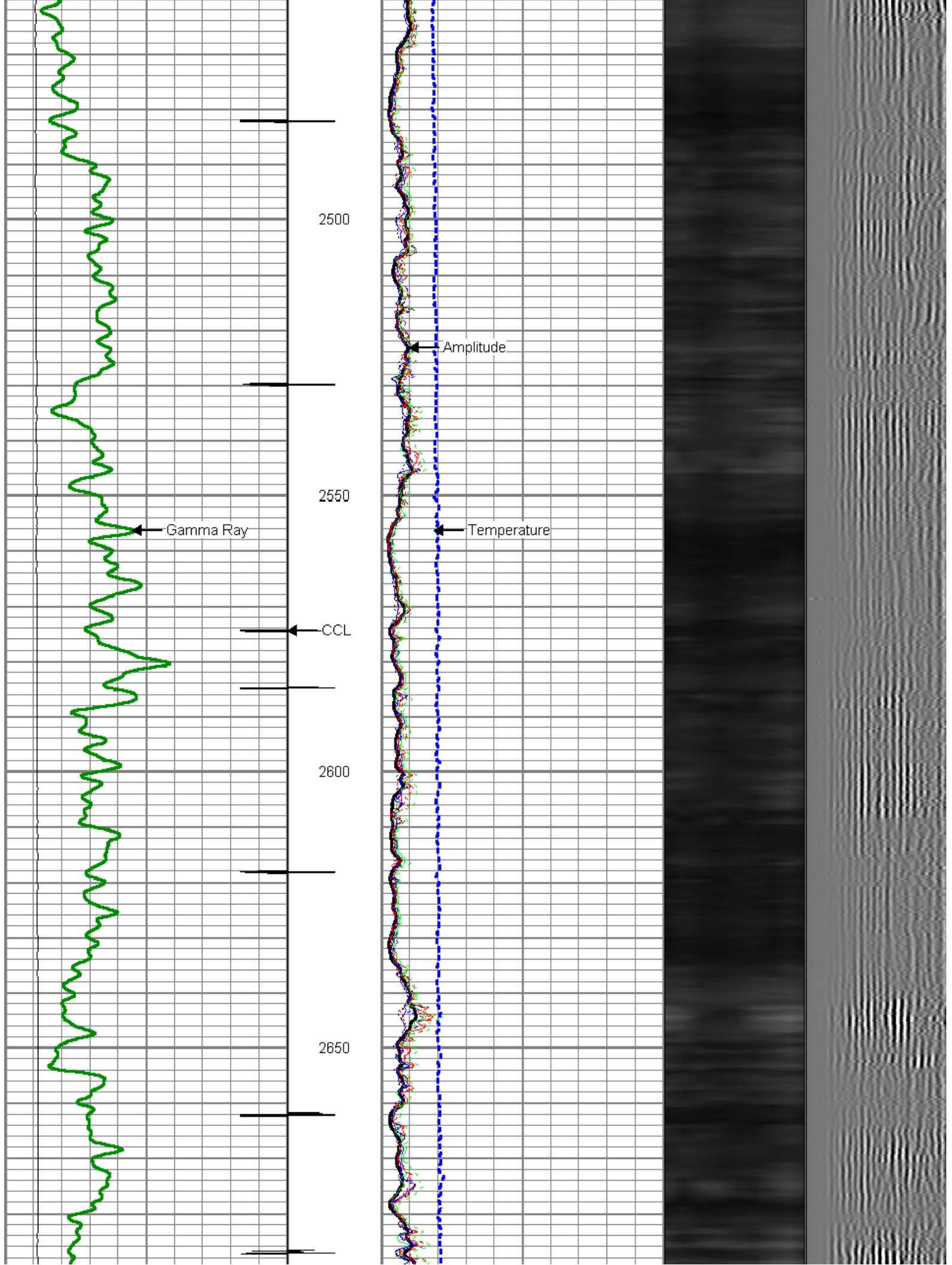


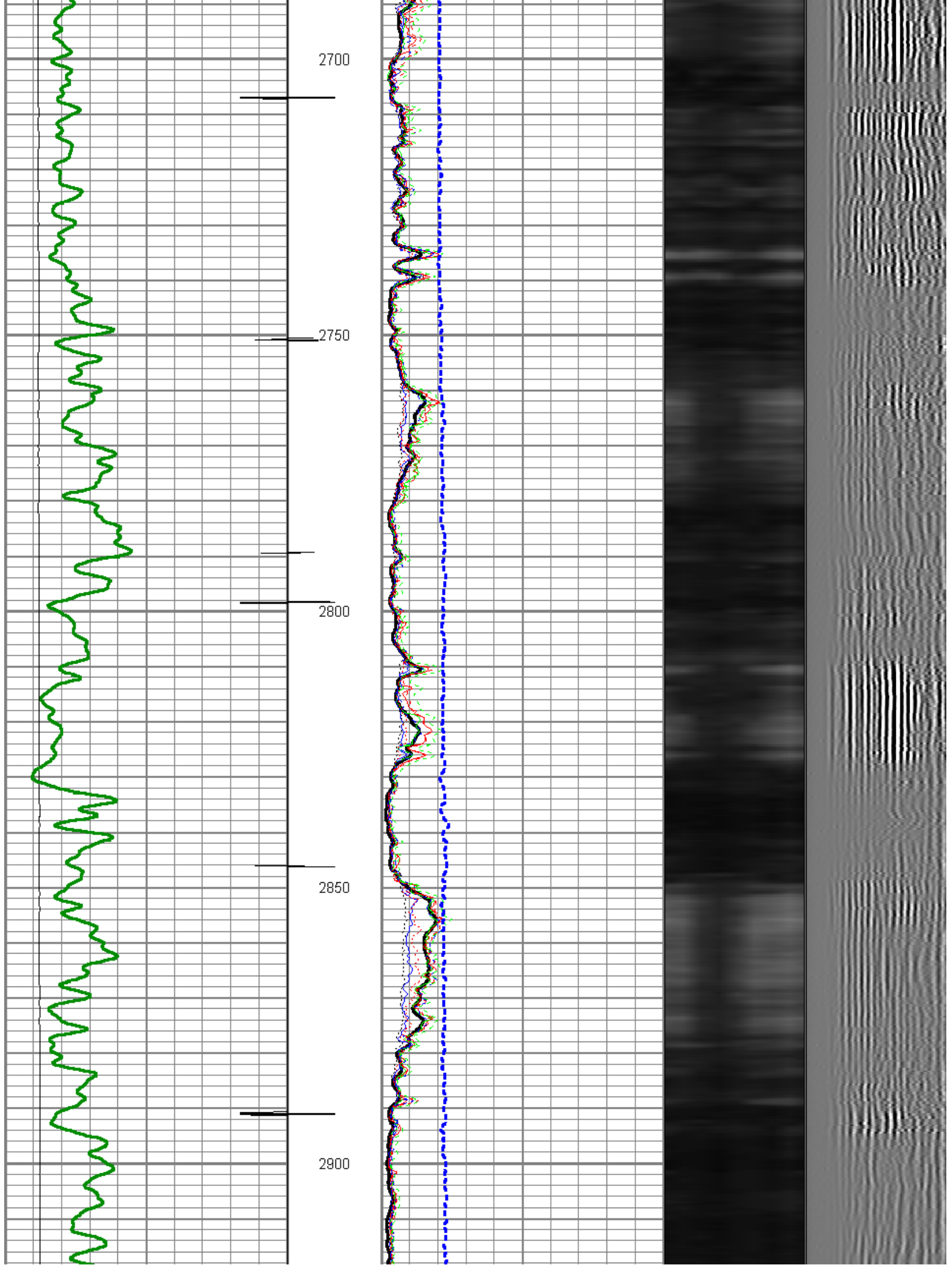


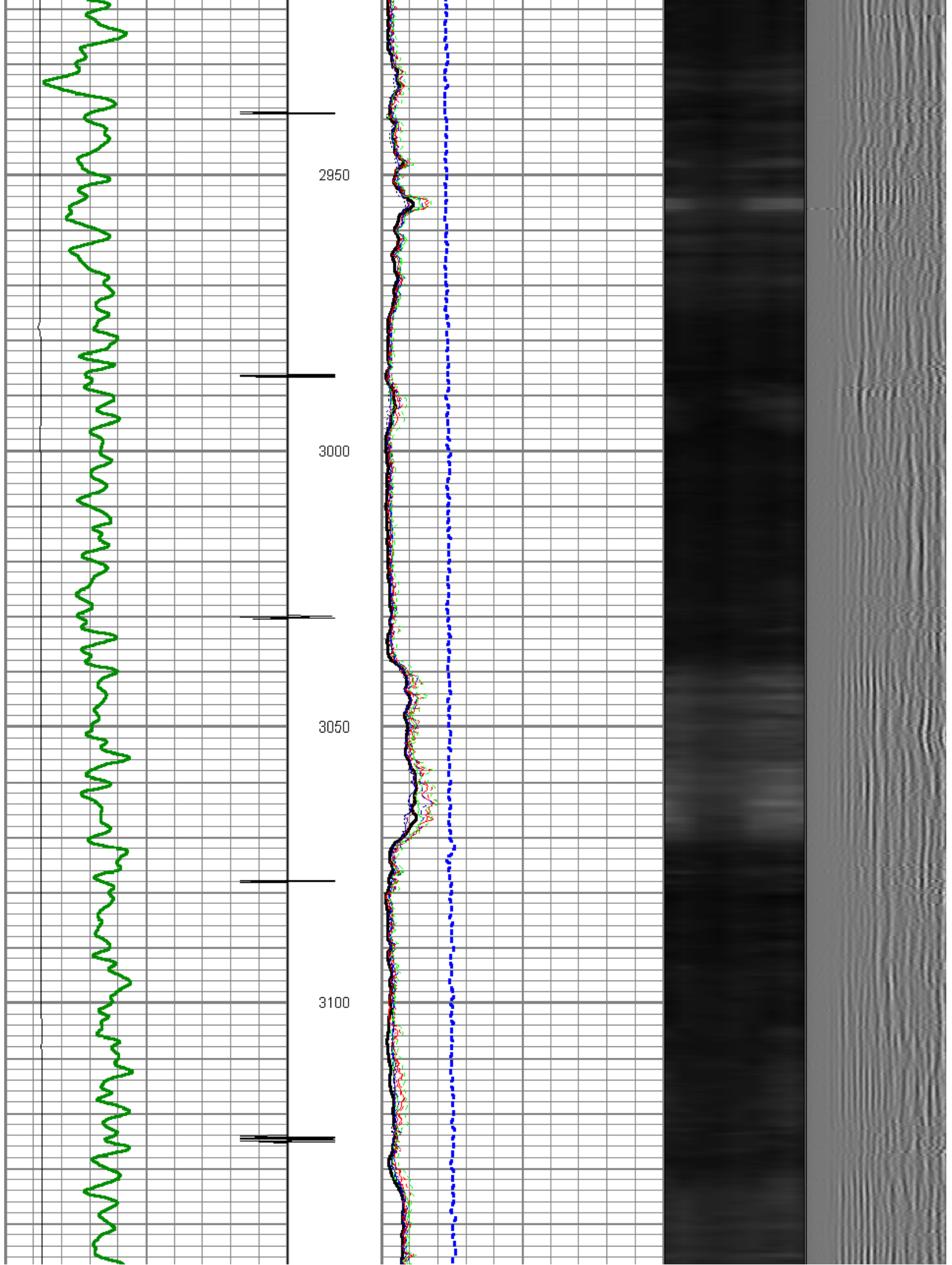


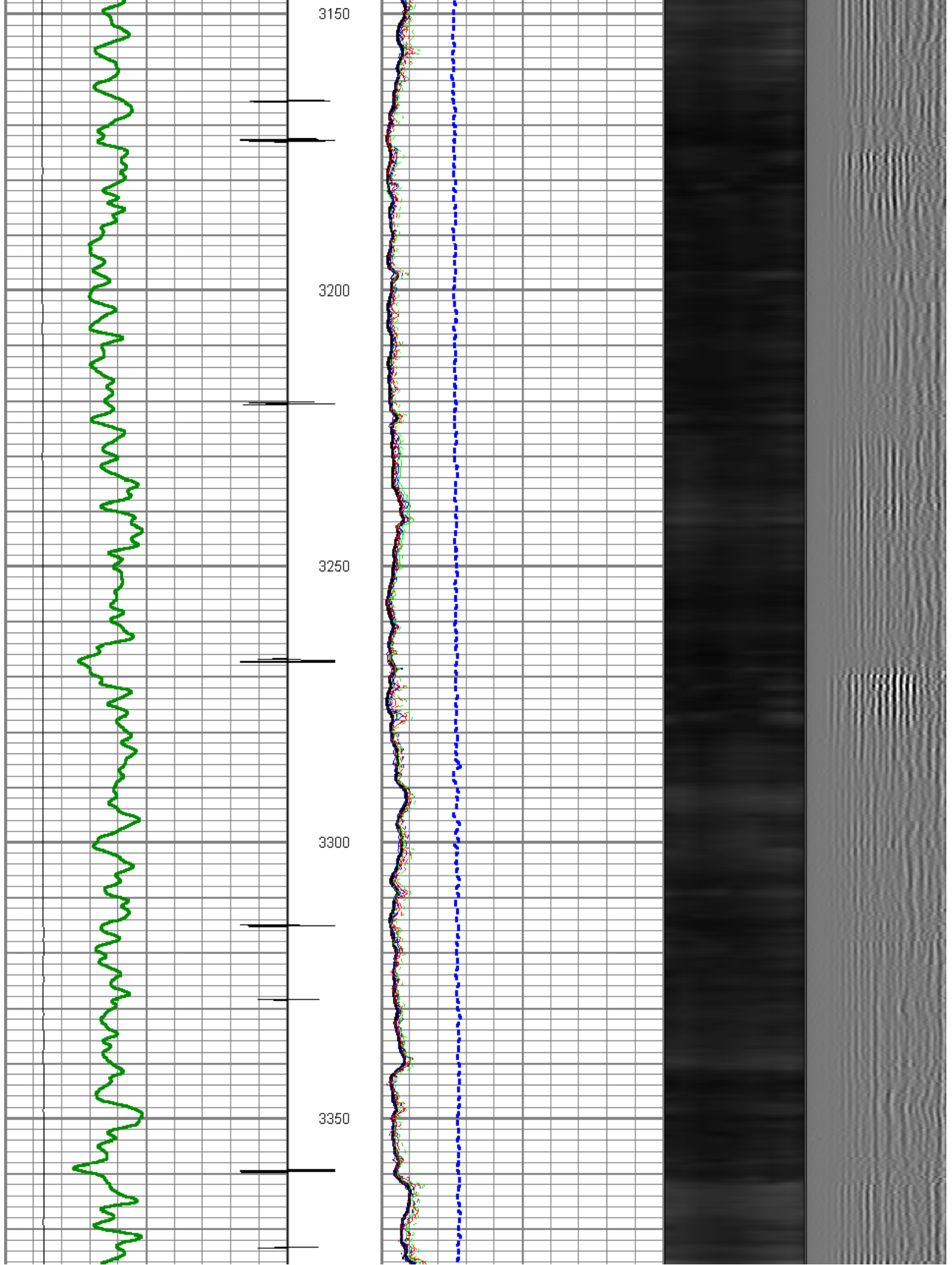


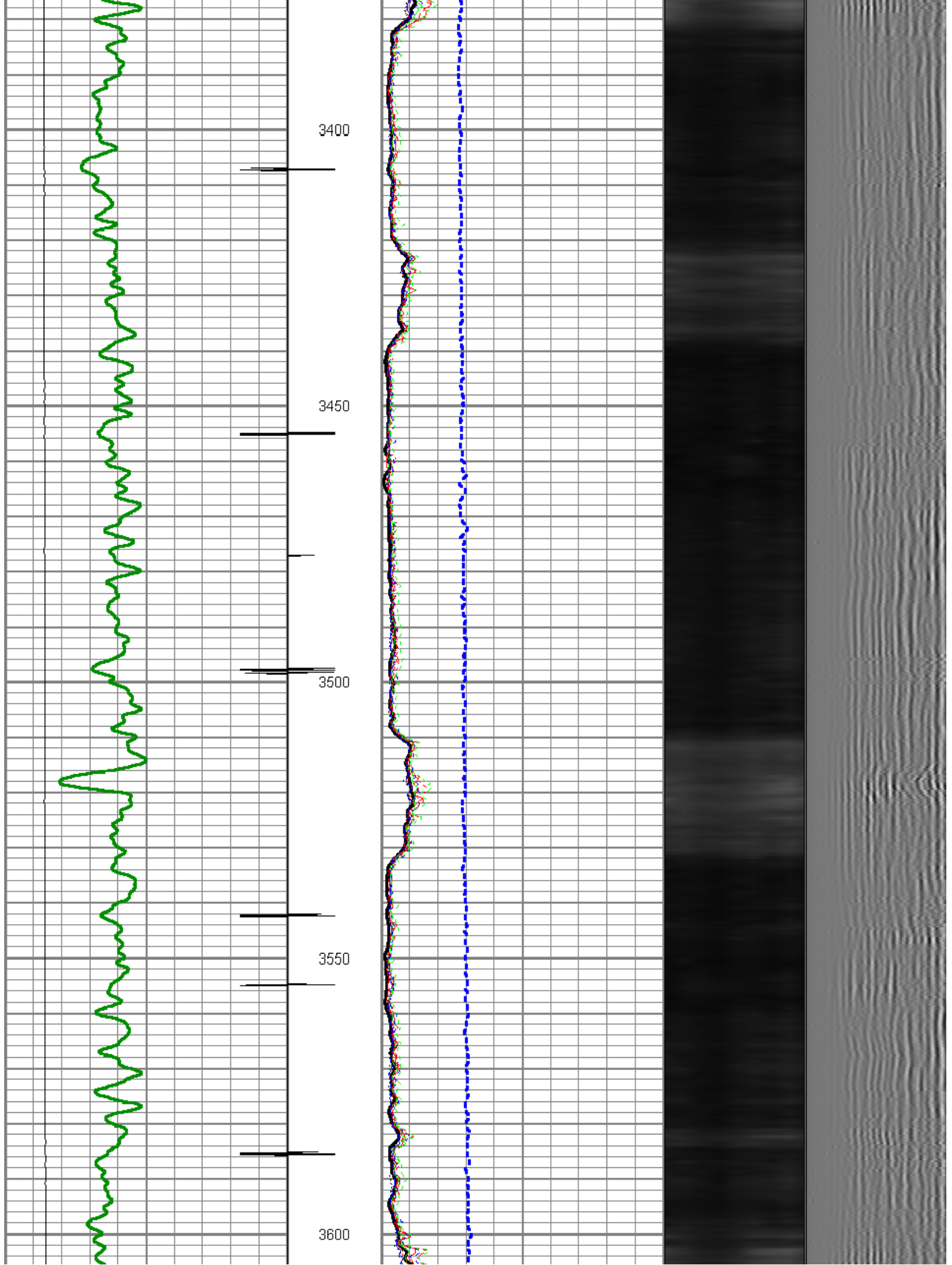


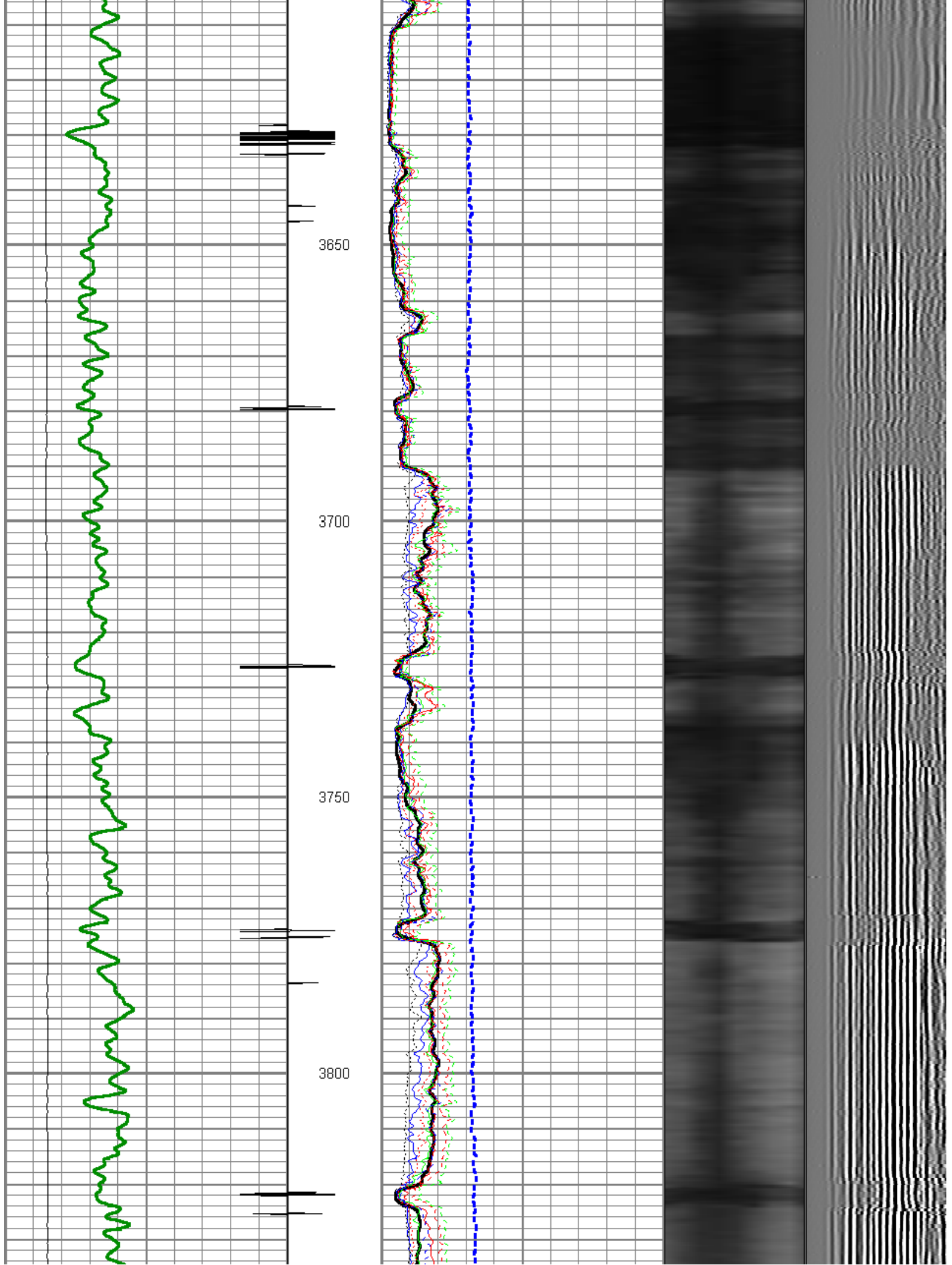


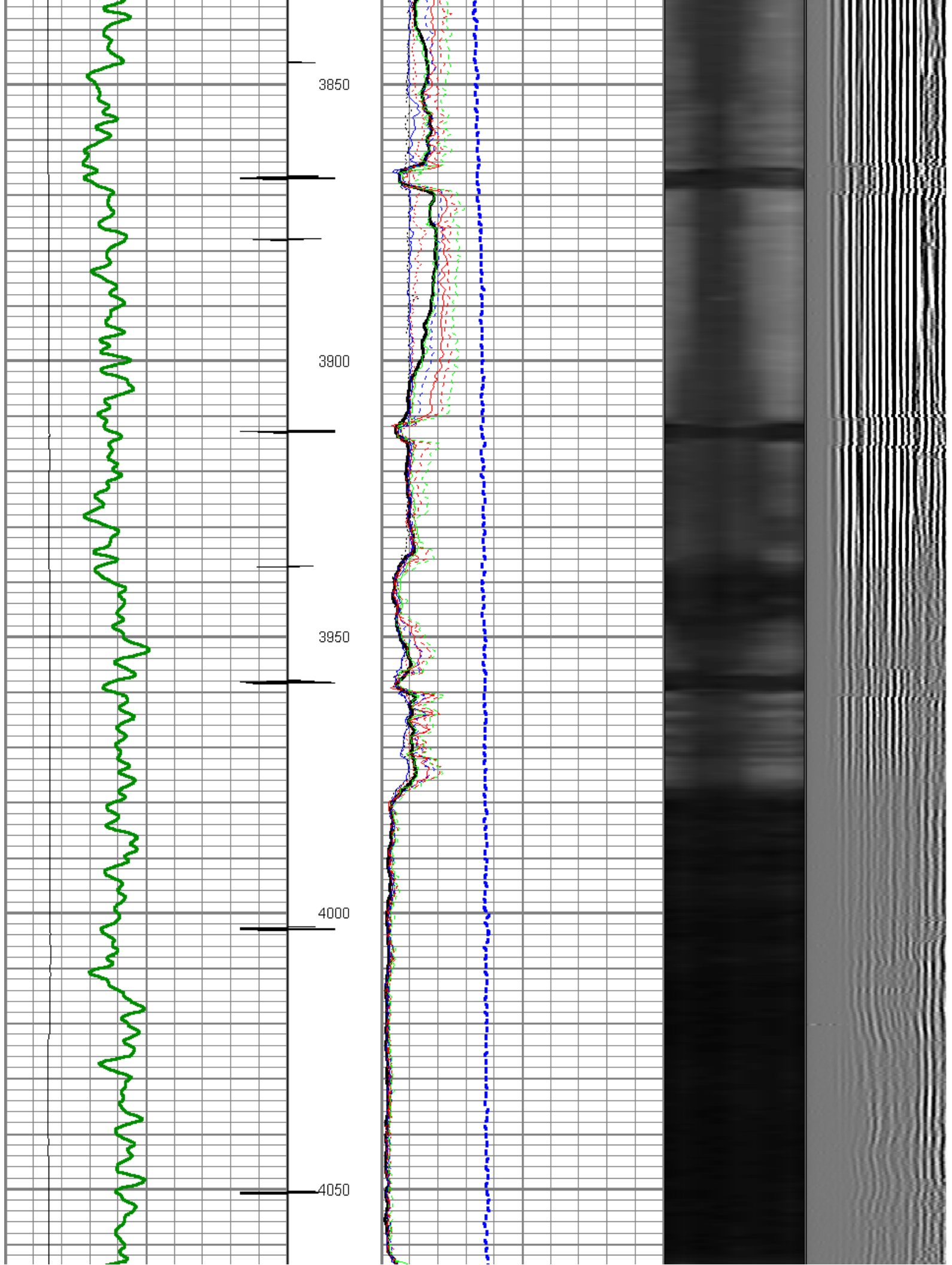


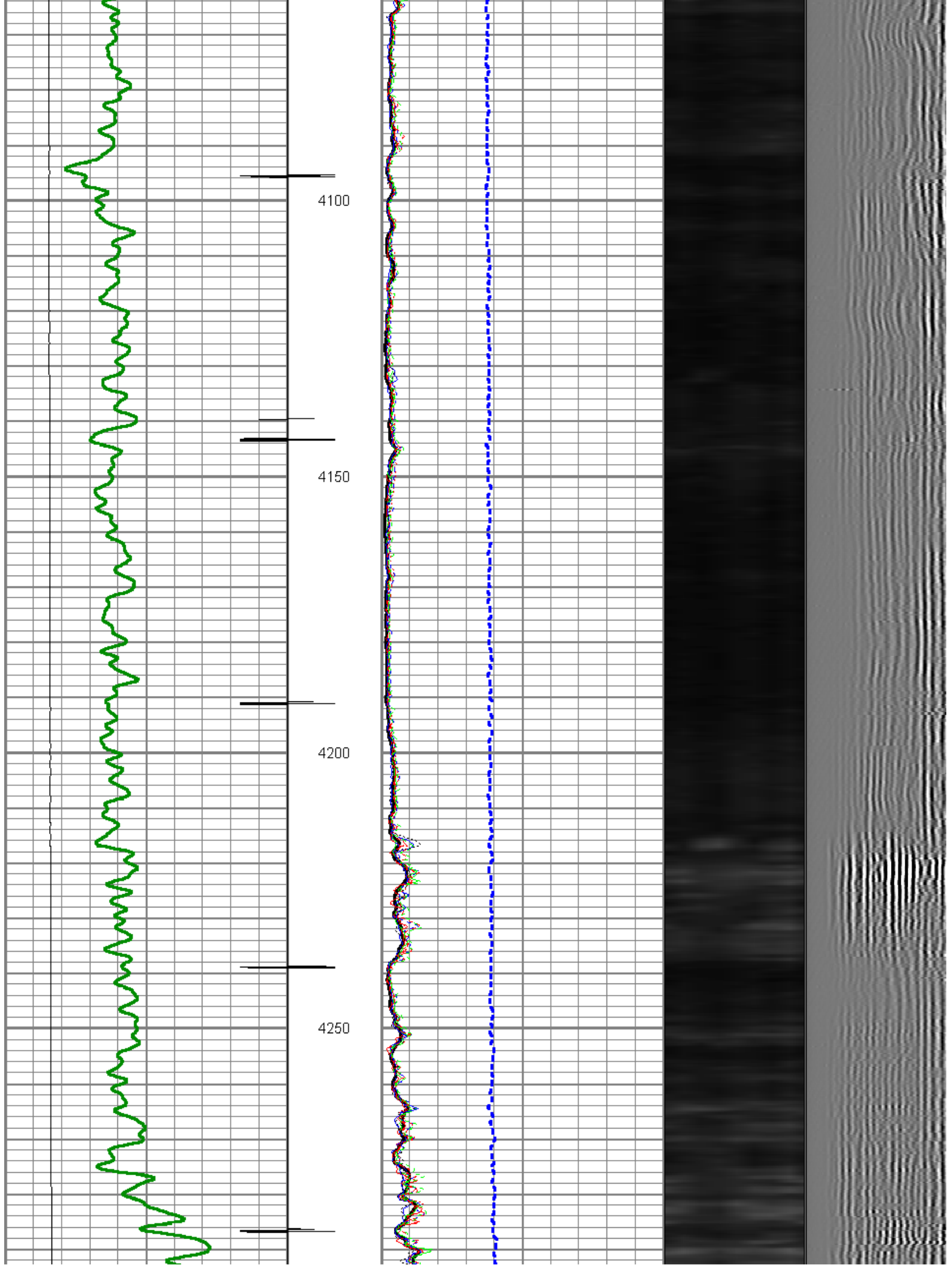


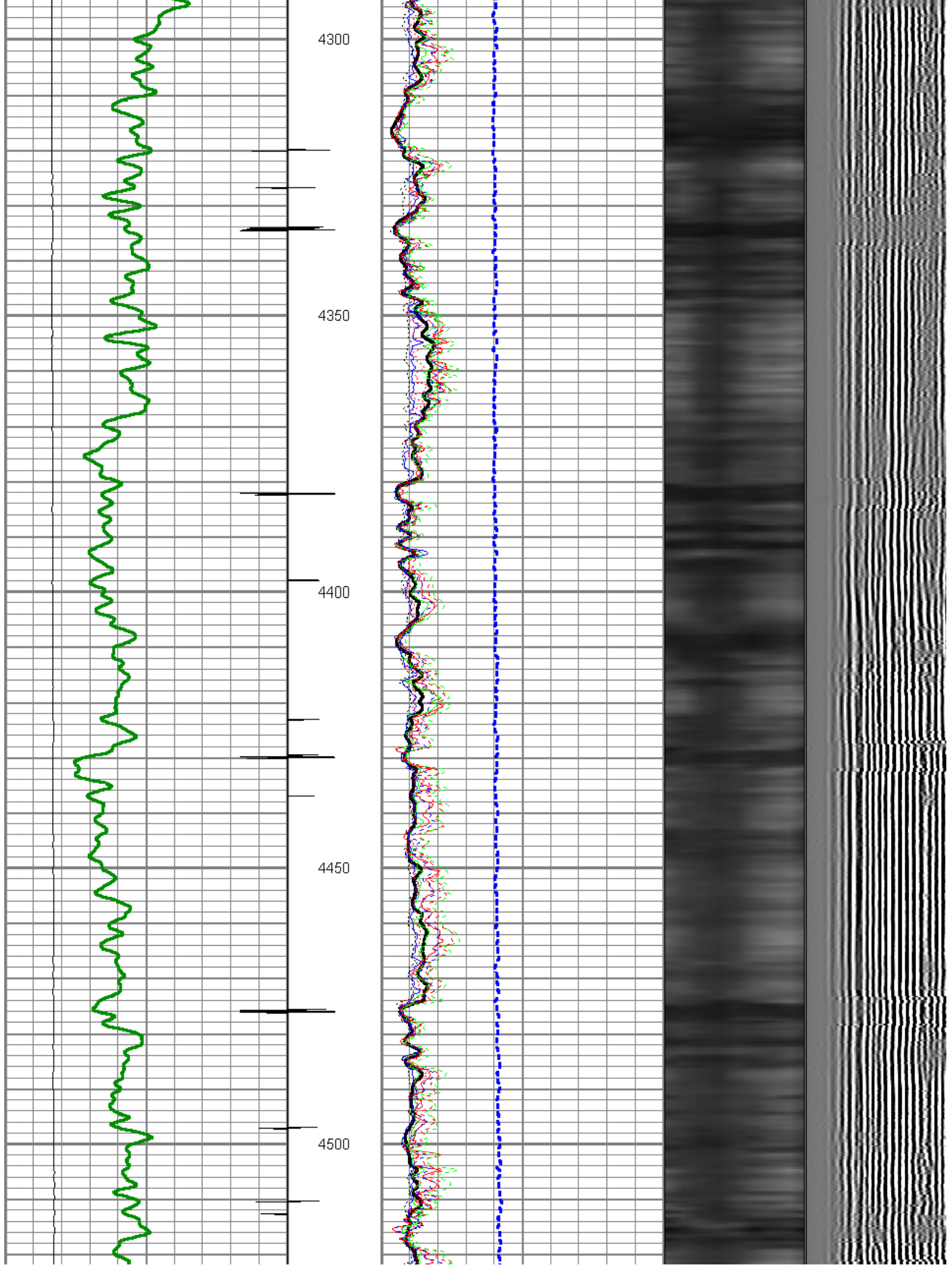


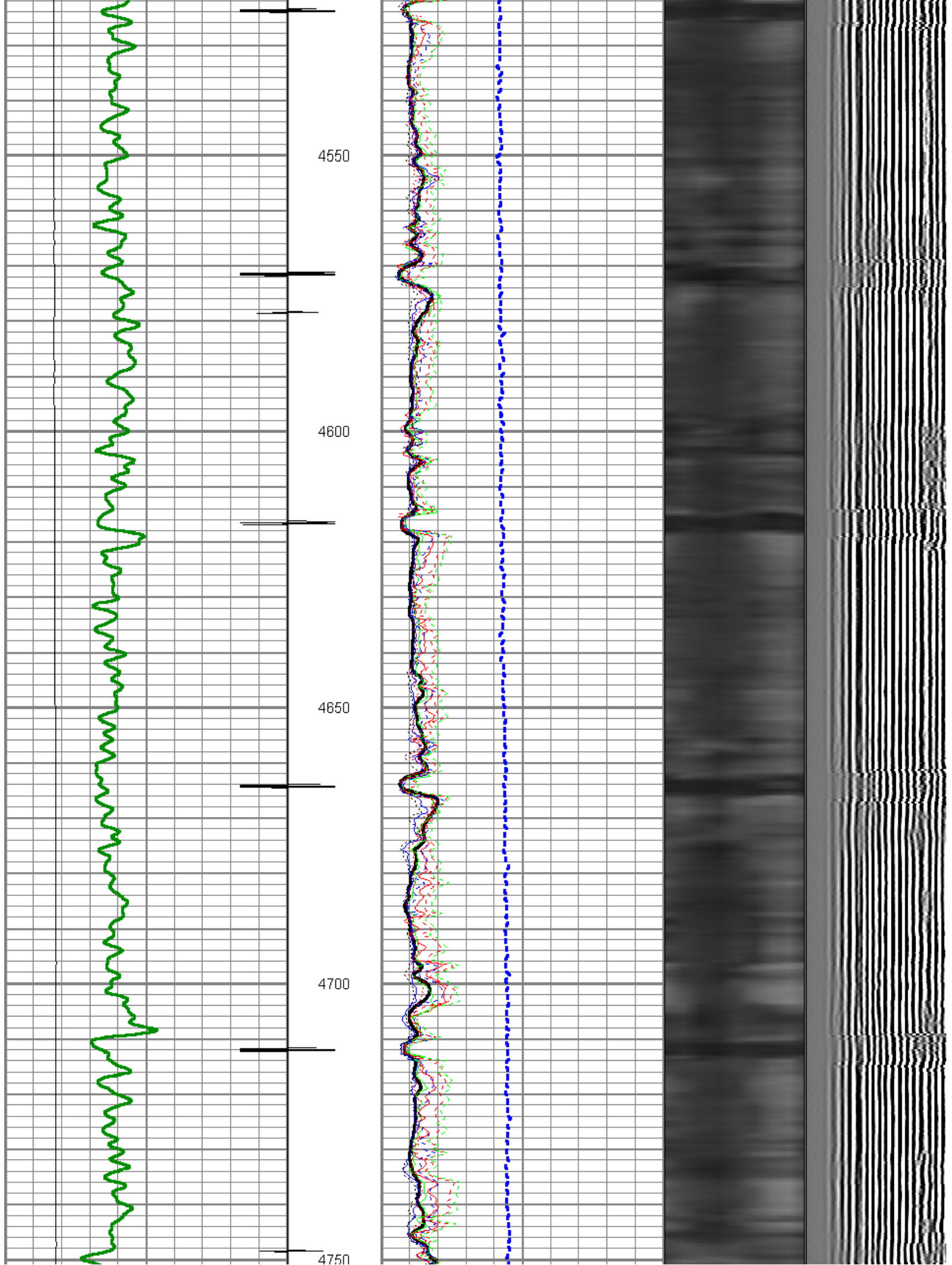


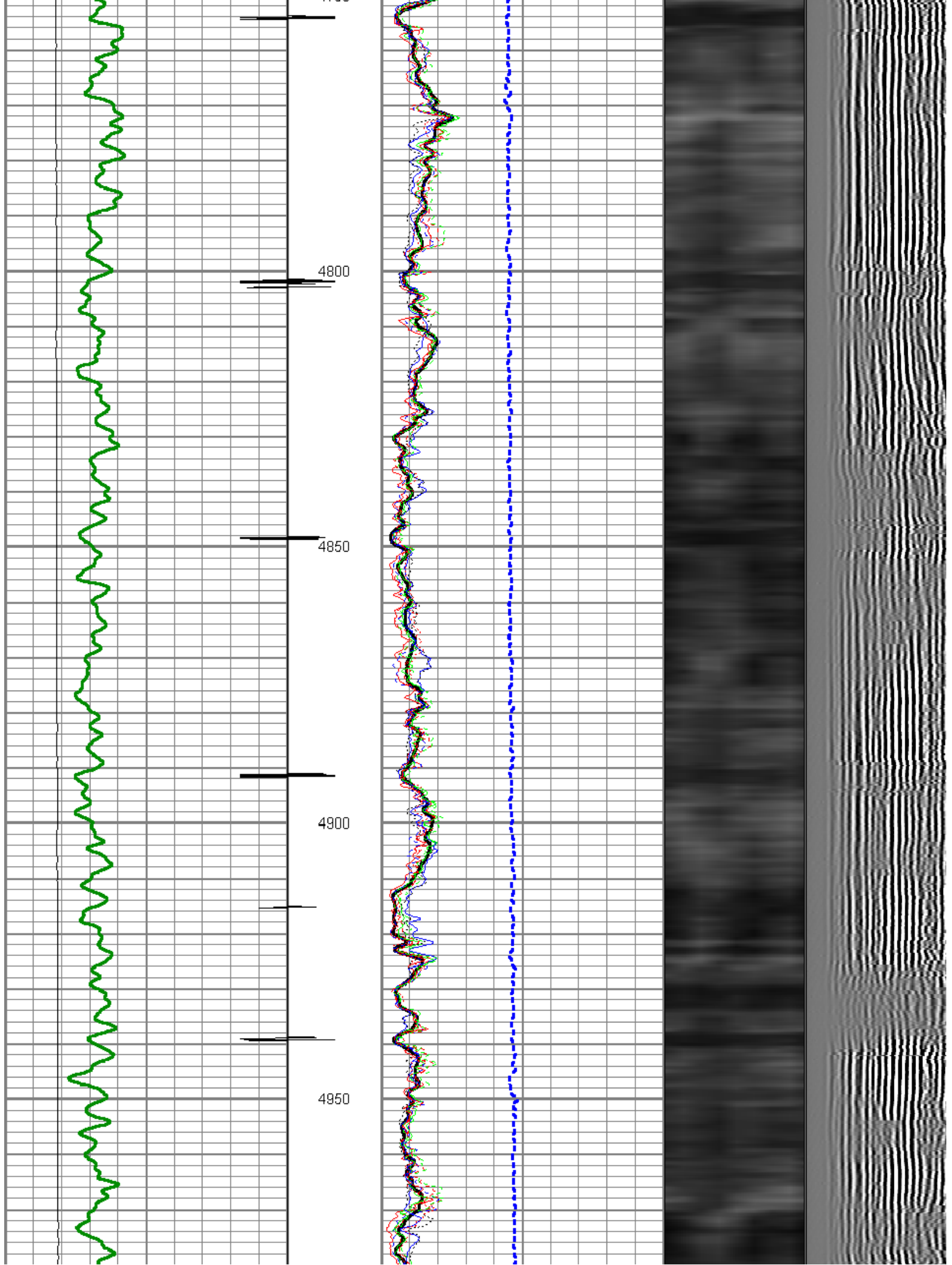


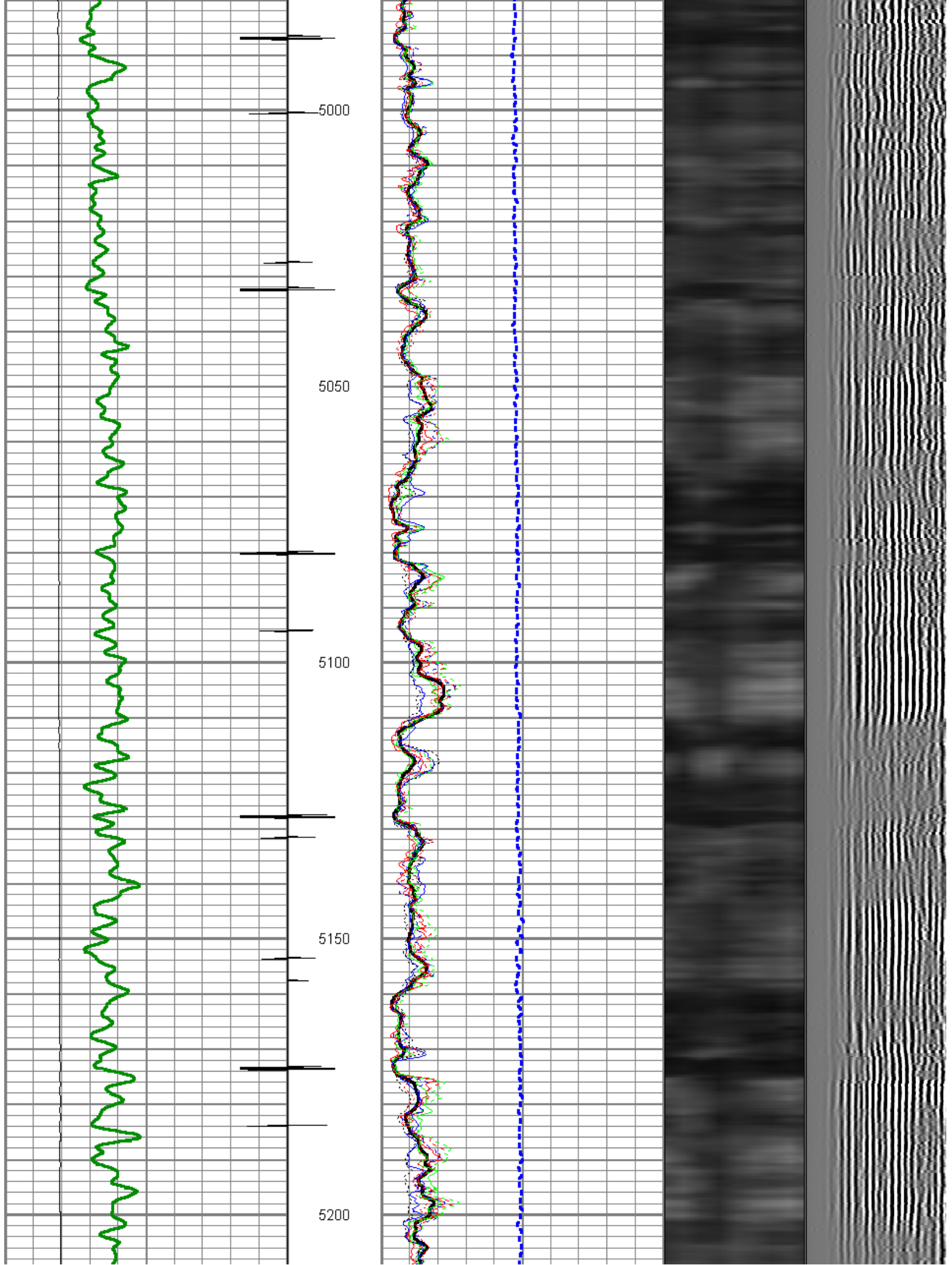


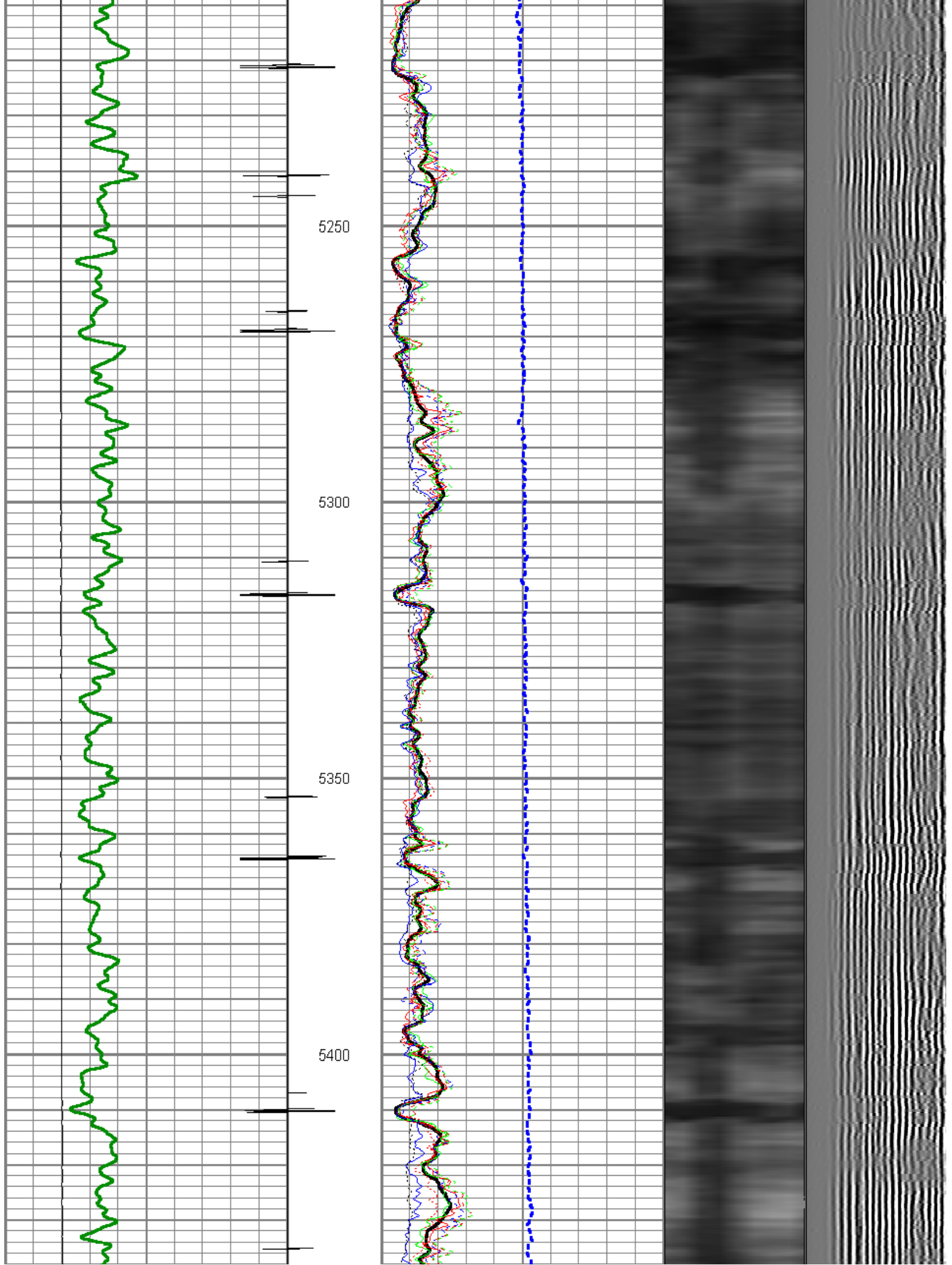


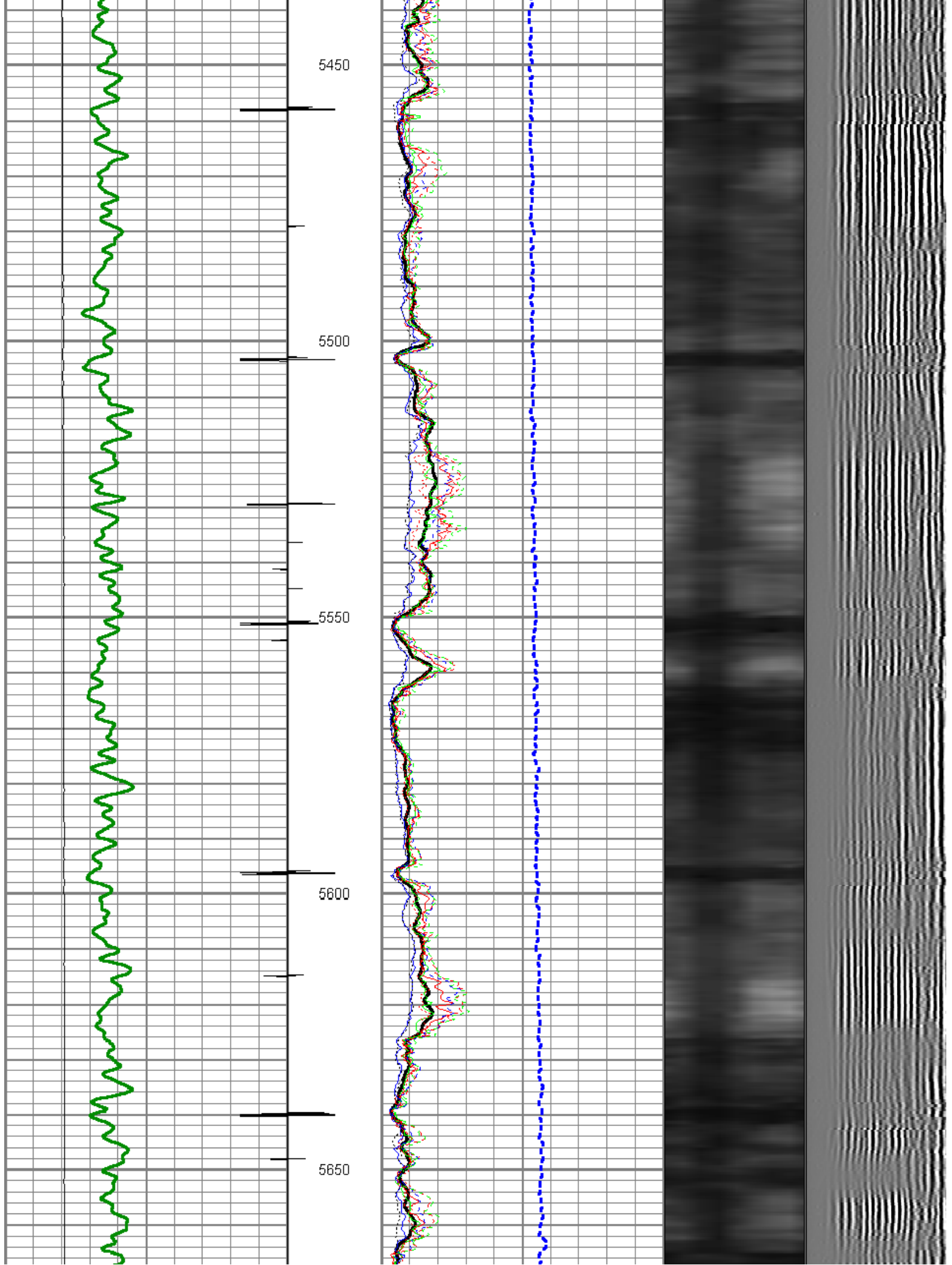


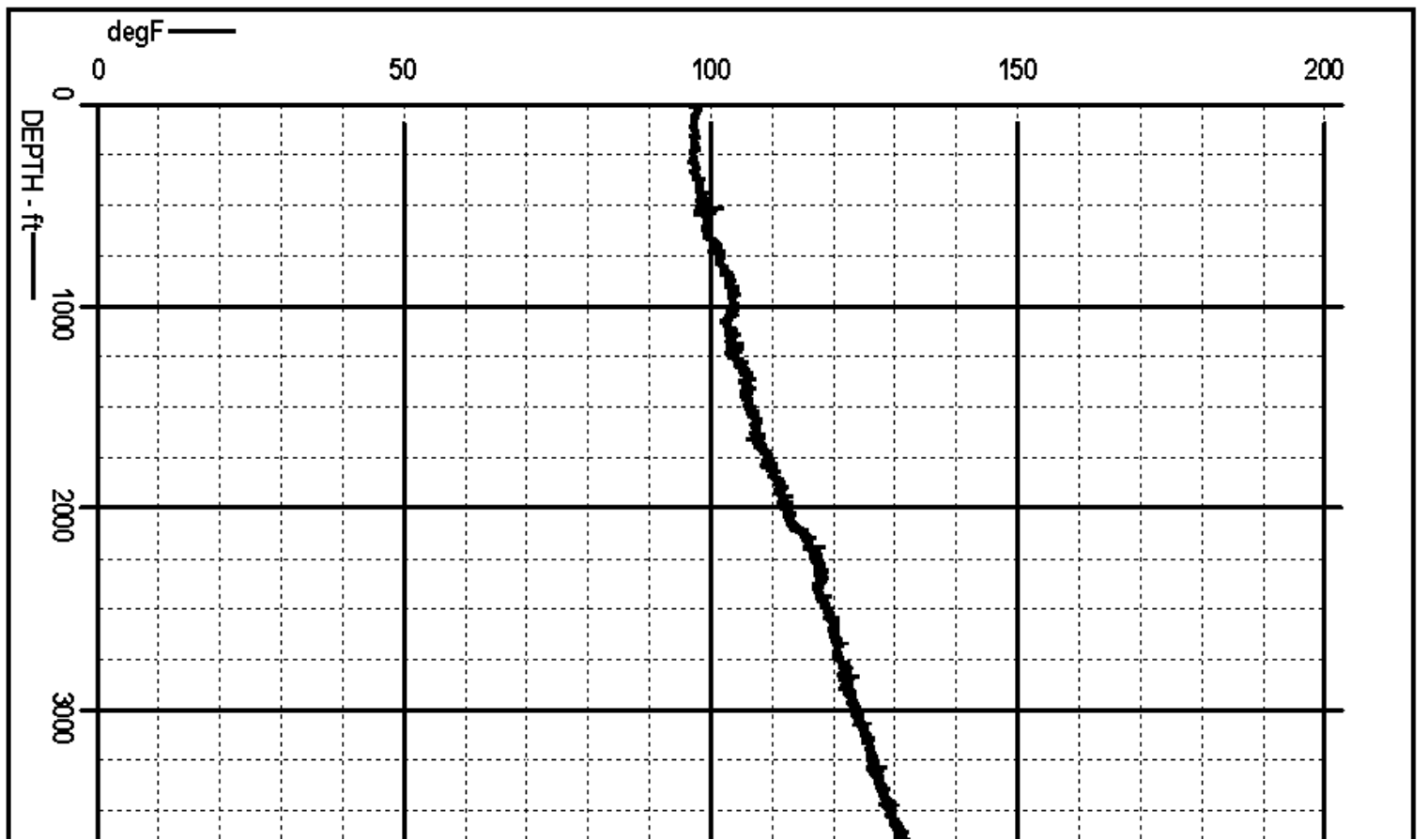
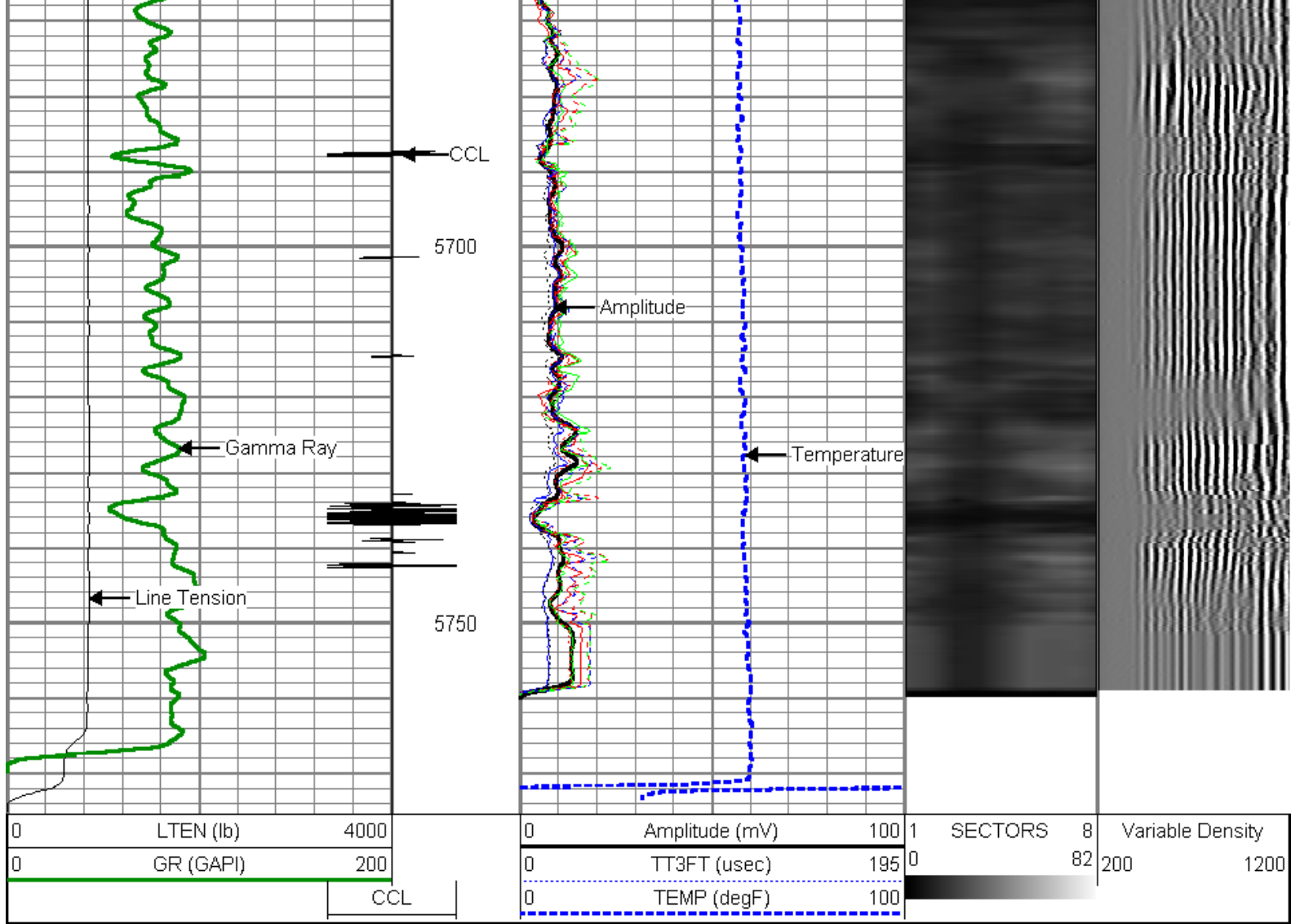


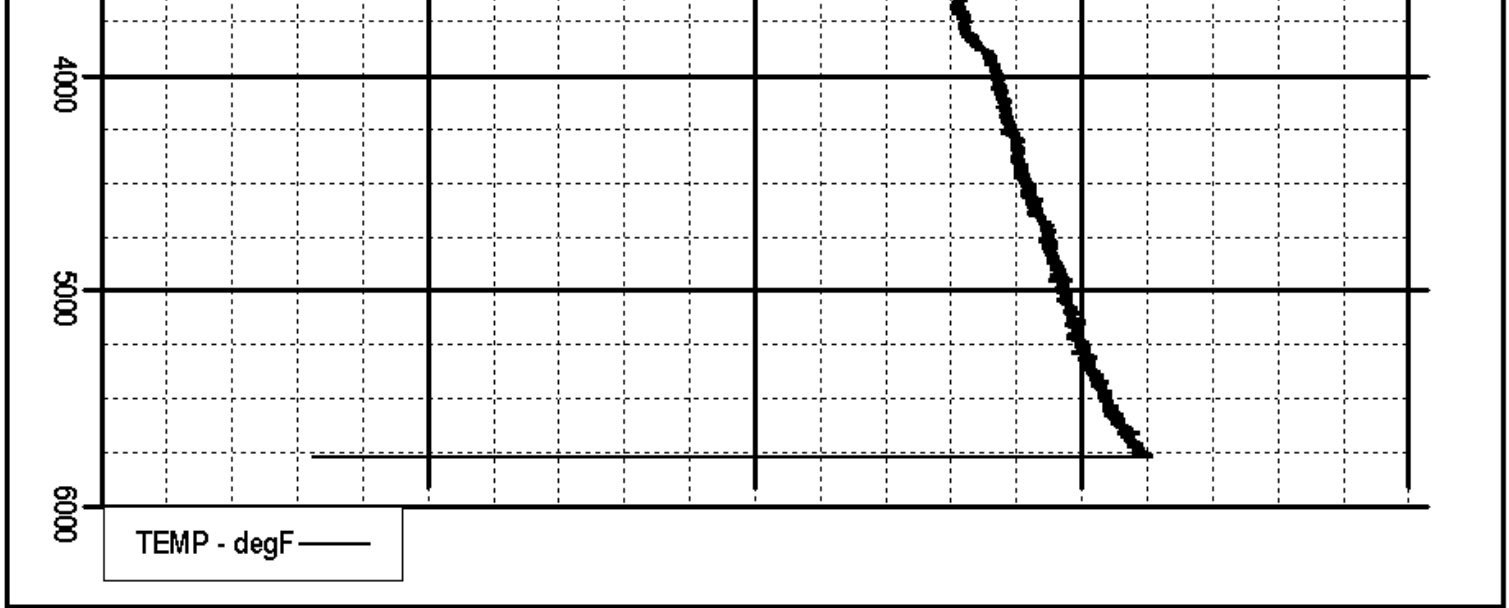













Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) CSS Gamma Ray/CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00
WVFS3FT	13.92		SNDX_RBT-007 (000001) Radial Bond Tool - Analog 3 1/8	9.47	3.13	140.00
WVFS1	13.92					
WVFS2	13.92					
WVFS3	13.92					
WVFS4	13.92					
WVFS5	13.92					
WVFS6	13.92					
WVFS7	13.92					
WVFS8	13.92					
WVFS5FT	12.92					
			SONDEX	2.71	2.75	32.00

GR	5.17						
				SNDX_GR-SNDX_3_13_GR (000002) 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: dhs 3c-19.db: field/well/run1/pass3 Total Length: 23.90 ft Total Weight: 248.07 lb O.D.: 3.13 in							

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	Field	BRANCO FLATS
	County	MESA
	State	COLORADO