

CEMENT BOND LOG

Company ANTERO RESOURCES CORP.
Well MCPHERSON A11
Field MAMM CREEK
County GARFIELD
State COLORADO

Location: SEC 16 T4R 06S RGE 92W
 SHL: 1042' FNL & 1601' FWL
 API #: 05-045-17071-0000
 Other Services: NONE

Permanant Datalog GROUND LEVEL Elevation 5448'
Log Measured From KELLY BUSHING = 24 FT
Drilling Measured From KELLY BUSHING
 Elevation
 K.B. 5472'
 D.F. 5471'
 G.L. 5448'

Date	10 APR 2012
Run Number	ONE
Depth Driller	7910'
Bottom Logger	7852'
Top Log Interval	SURFACE
Bottom Logged Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	~8.34 LBS/GAL
Max. Recorded Temp.	203 DEG F
Estimated Cement Top	2130'
Time Well Ready	N/A
Time Logger on Bottom	1030
Equipment Number	ST0301
Location	GRAND JUNCTION
Recorded By	M. BERNATCHEZ
Witnessed By	K. POOLE

Run Number	Borehole Record		Tubing Record	
	Bit	From	To	Size
ONE	24"	SURFACE	80'	
TWO	12.25"	60'	1000'	
THREE	7.875"	1000'	7910'	

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24/32#	SURFACE	1000'
Prot. String				
Production String	4.5"	11.6#	SURFACE	7910'
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 WEATHERFORD DUAL NEUTRON LOG DATED 04-APR-2012.
 SHORT JOINT: 4839' - 4857' & 6138' - 6161' & 7433' - 7456'

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



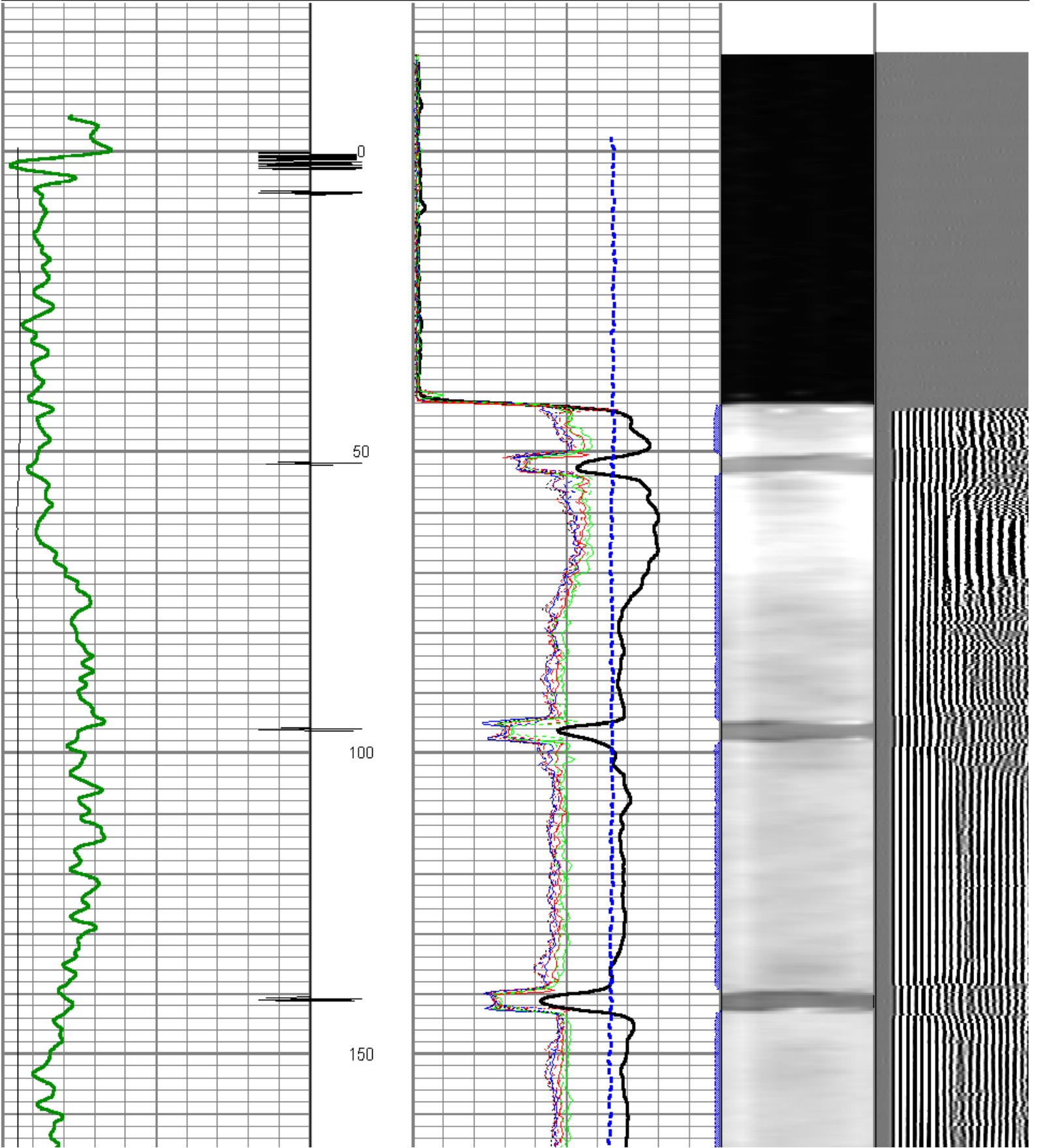
MAIN LOG PASS

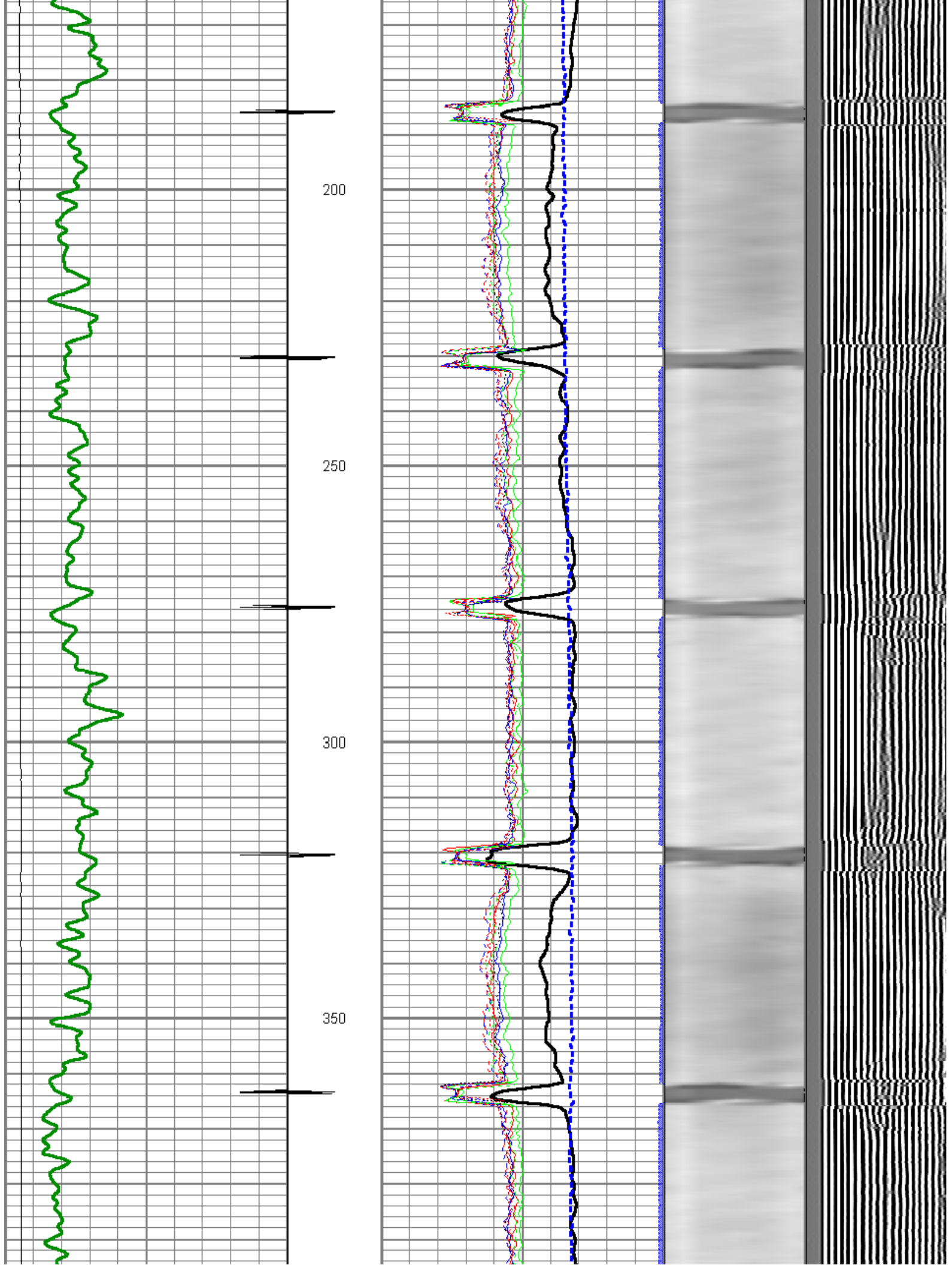
SCALE 5" = 100'

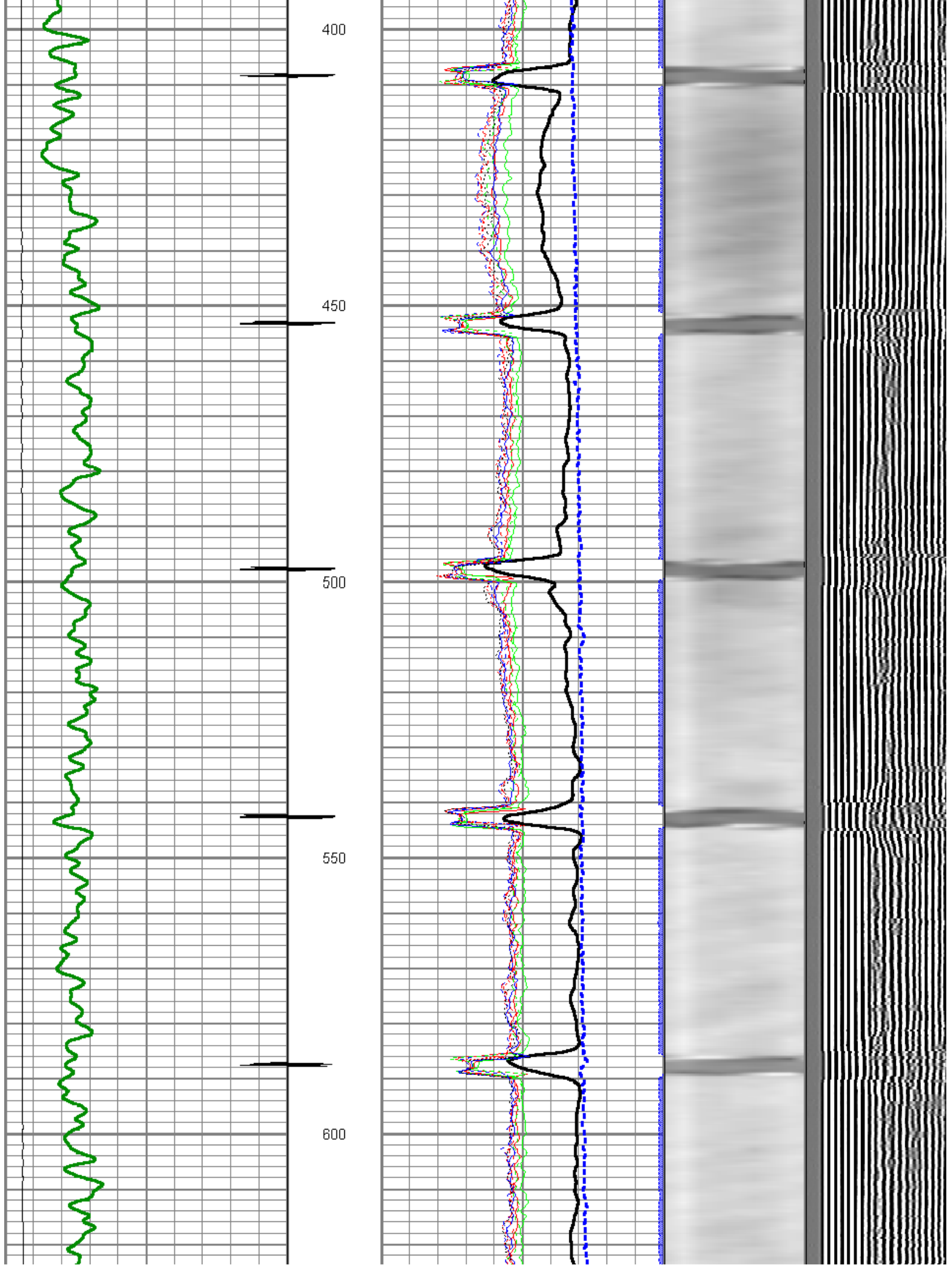
Mesa Wireline

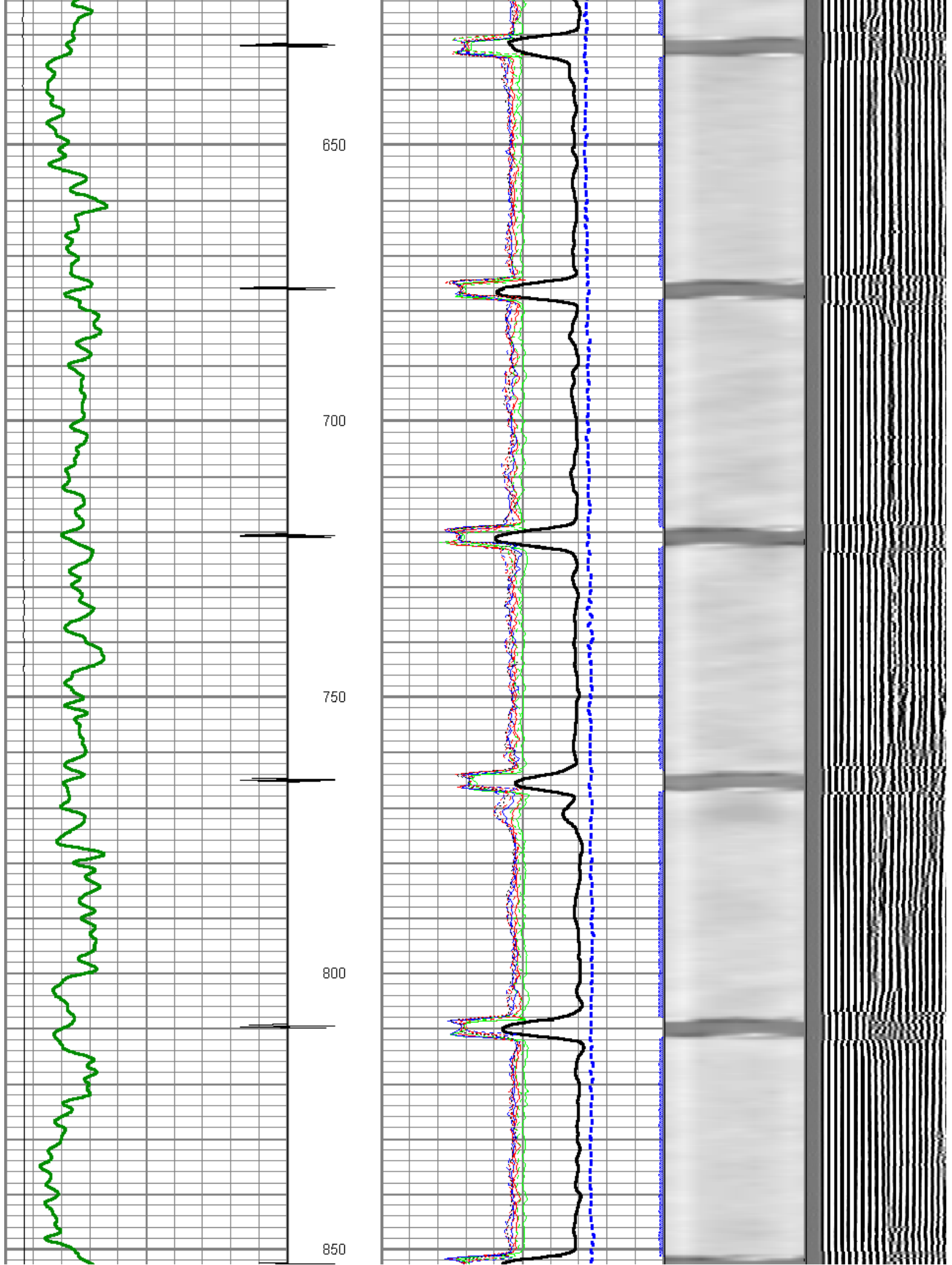
Database File: mca11cbl.db
 Dataset Pathname: pass2
 Presentation Format: rbt_fin
 Dataset Creation: Wed Apr 11 01:30:19 2012
 Charted by: Depth in Feet scaled 1:240

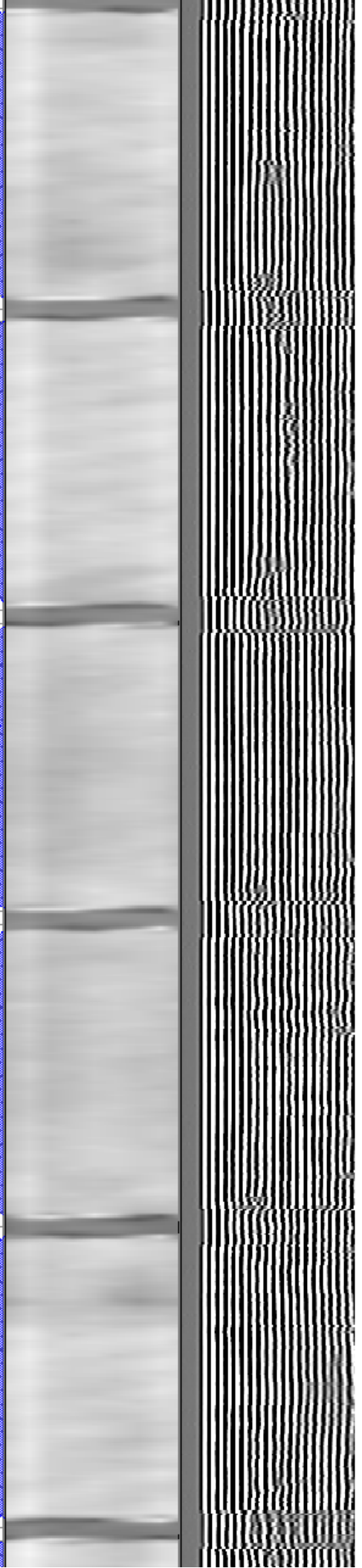
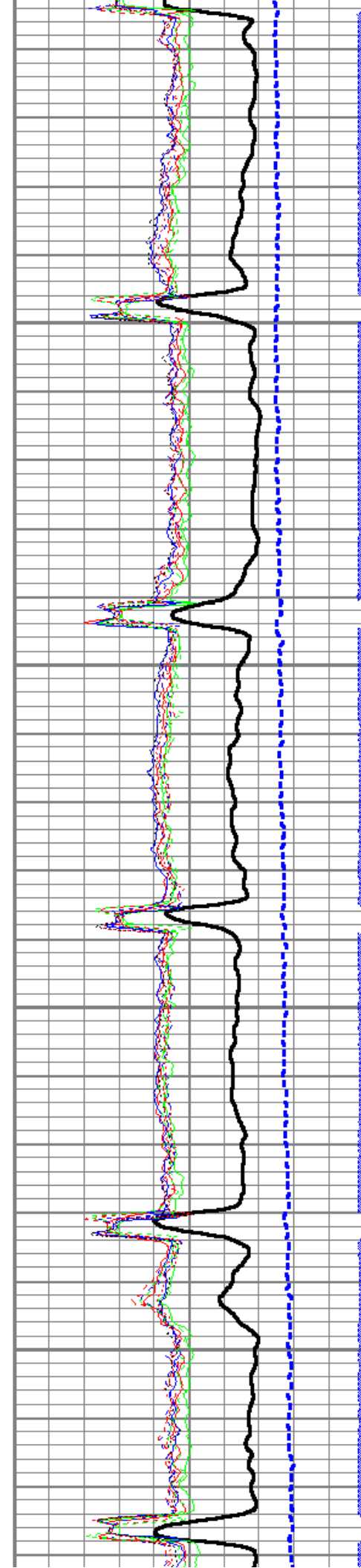
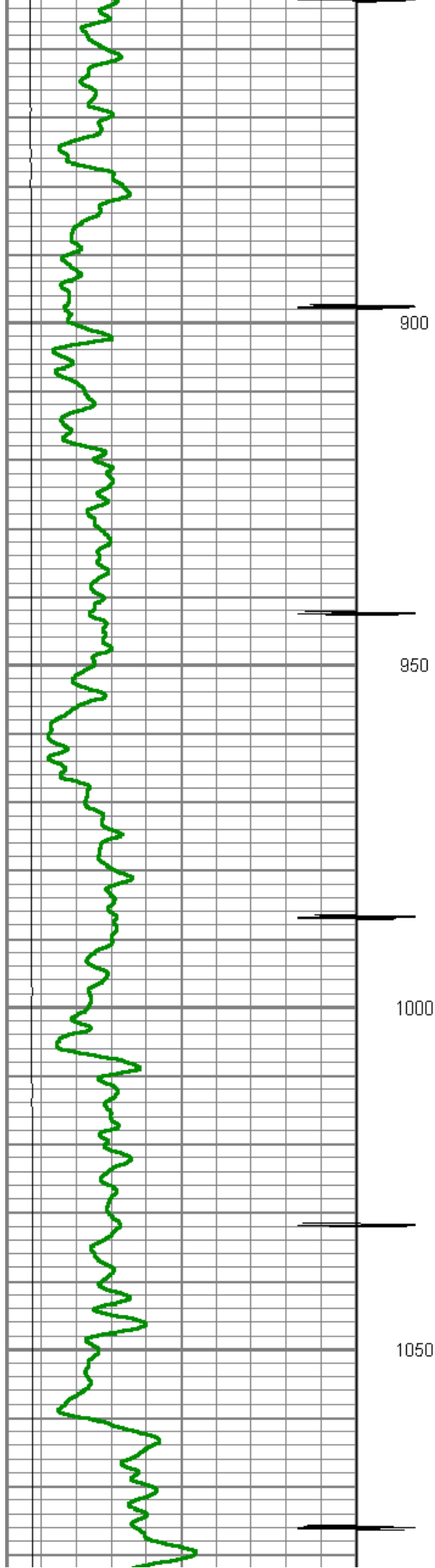
0	LTEN (lb)	4000	0	Amplitude (mV)	100	1	SECTORS	8	Variable Density	
0	GR (GAPI)	200	0	TT3FT (usec)	195	0		82	200	1200
		CCL	0	TEMP (degF)	100					

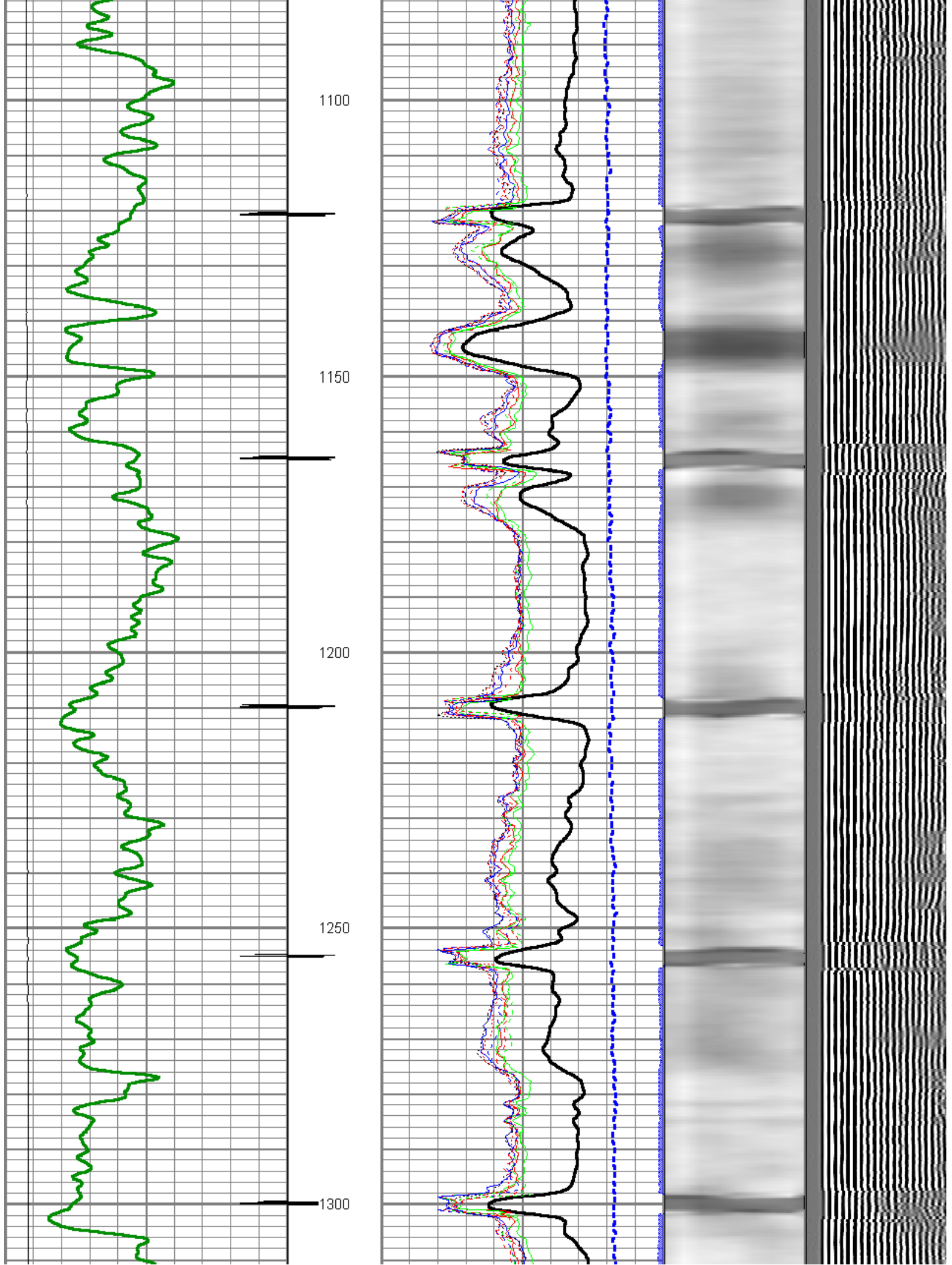


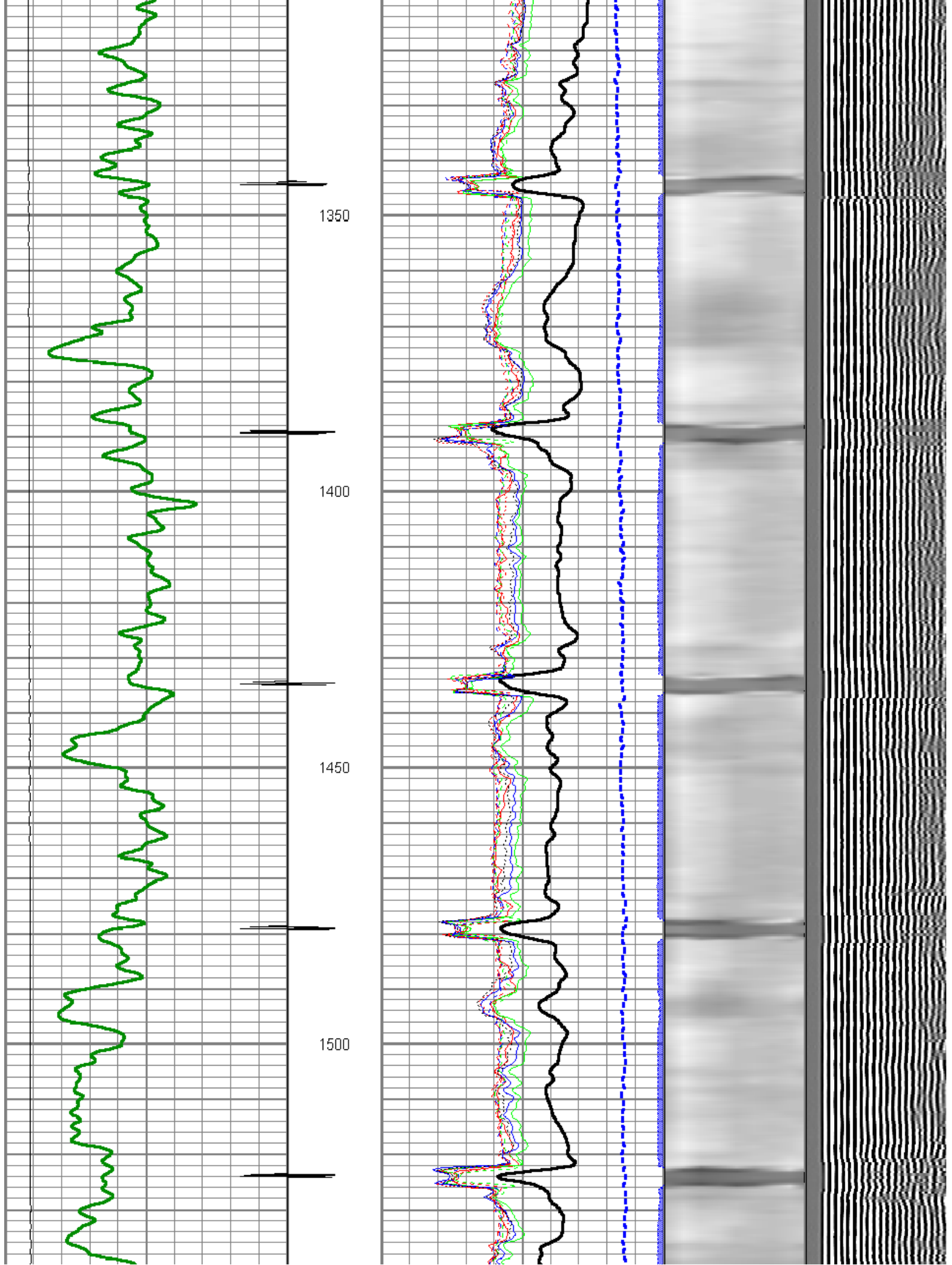


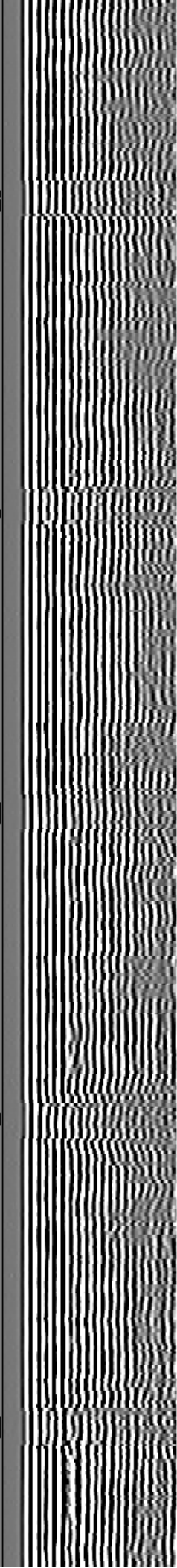
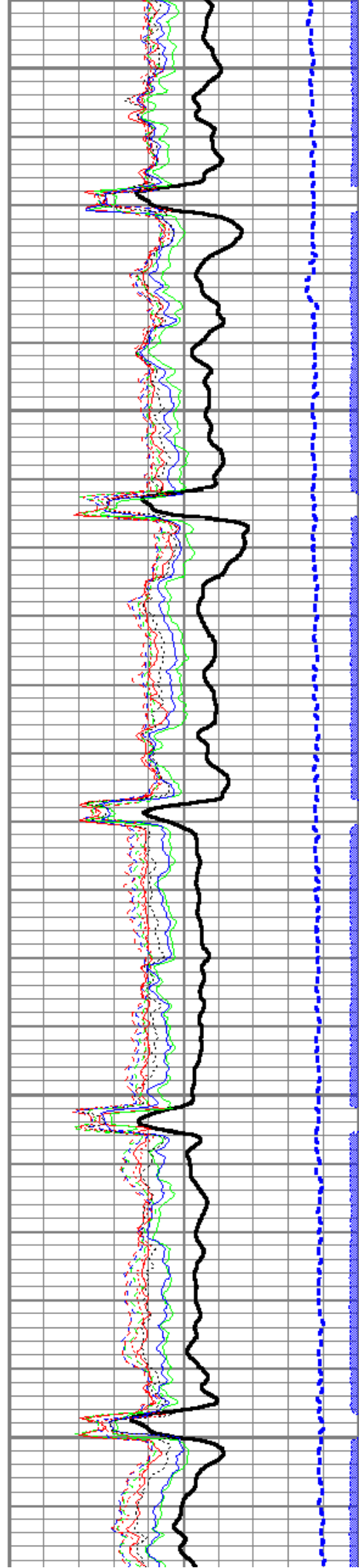
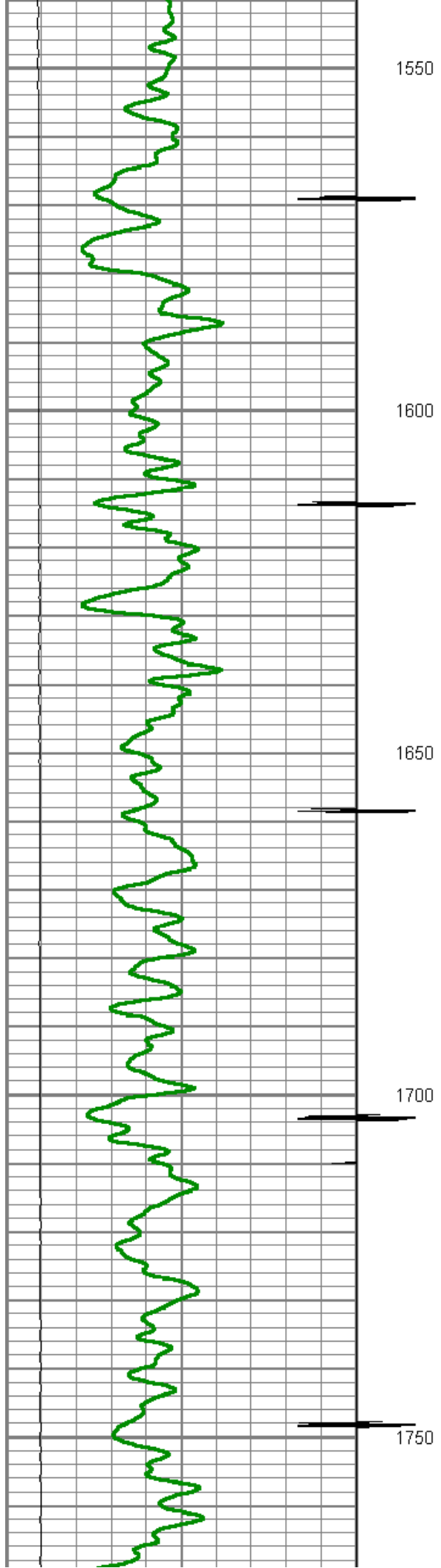


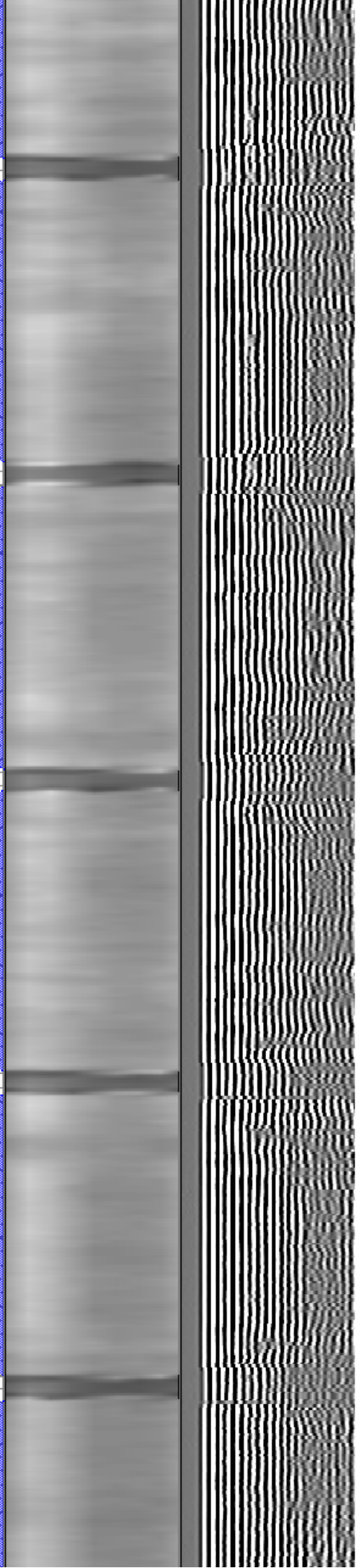
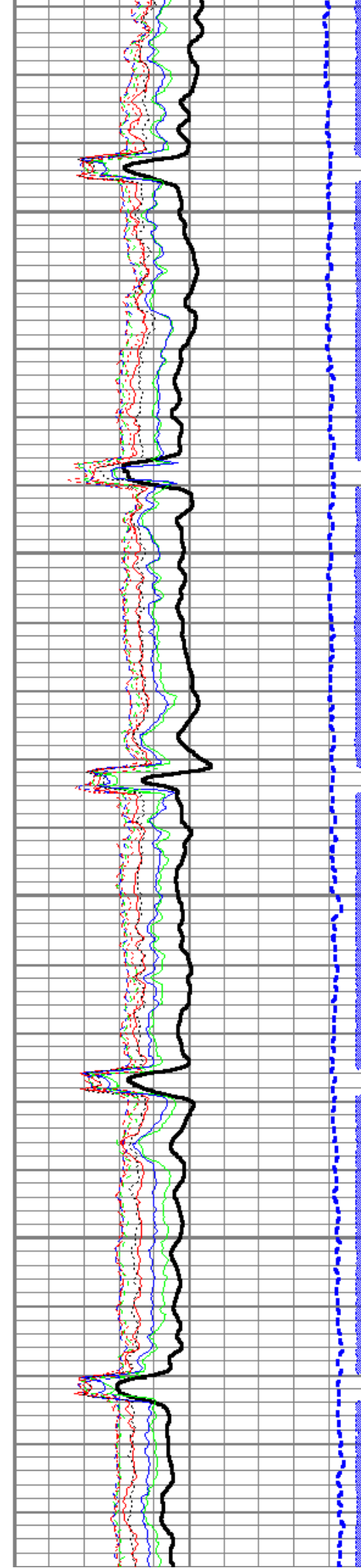
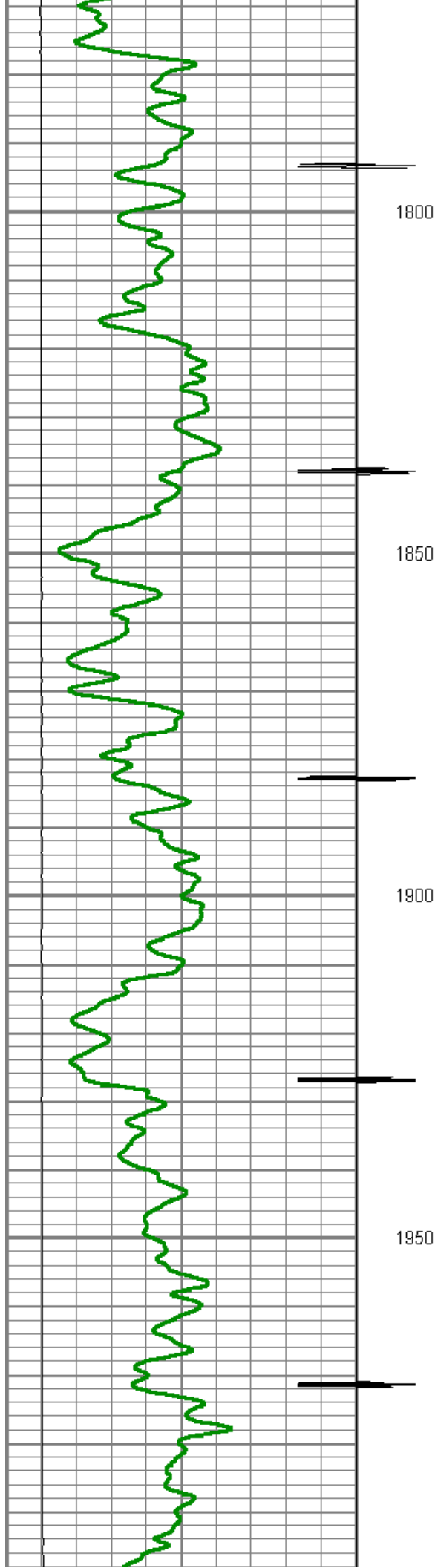


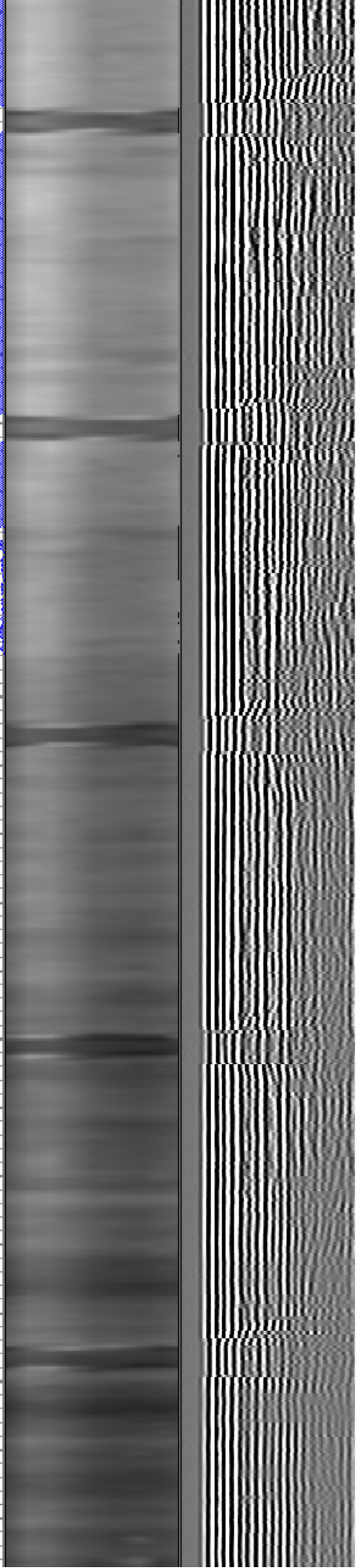
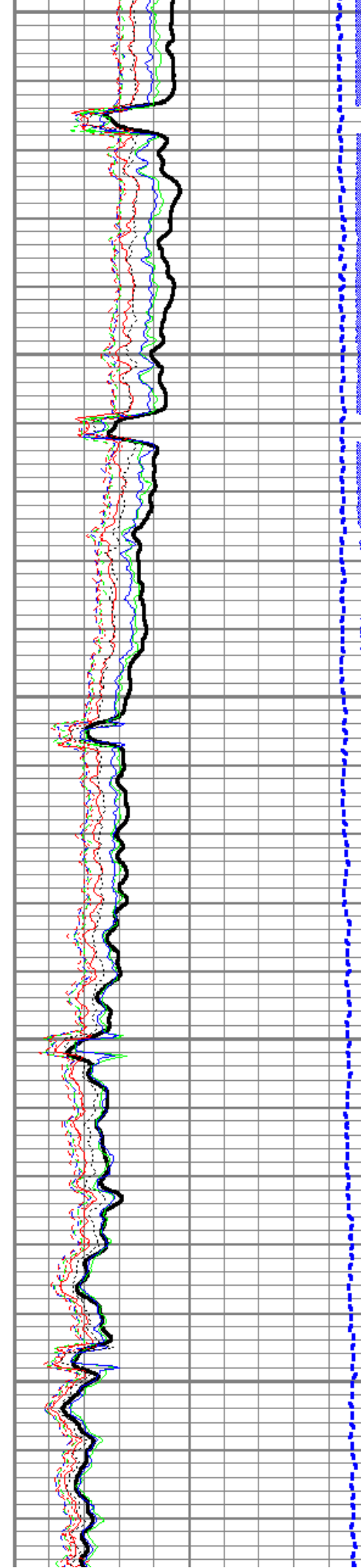
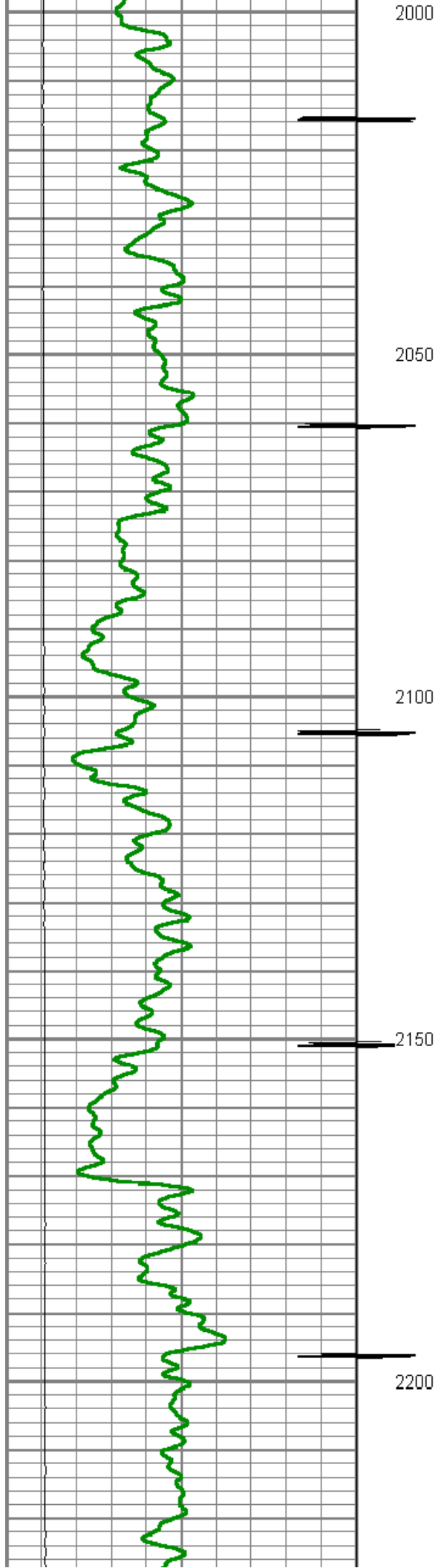


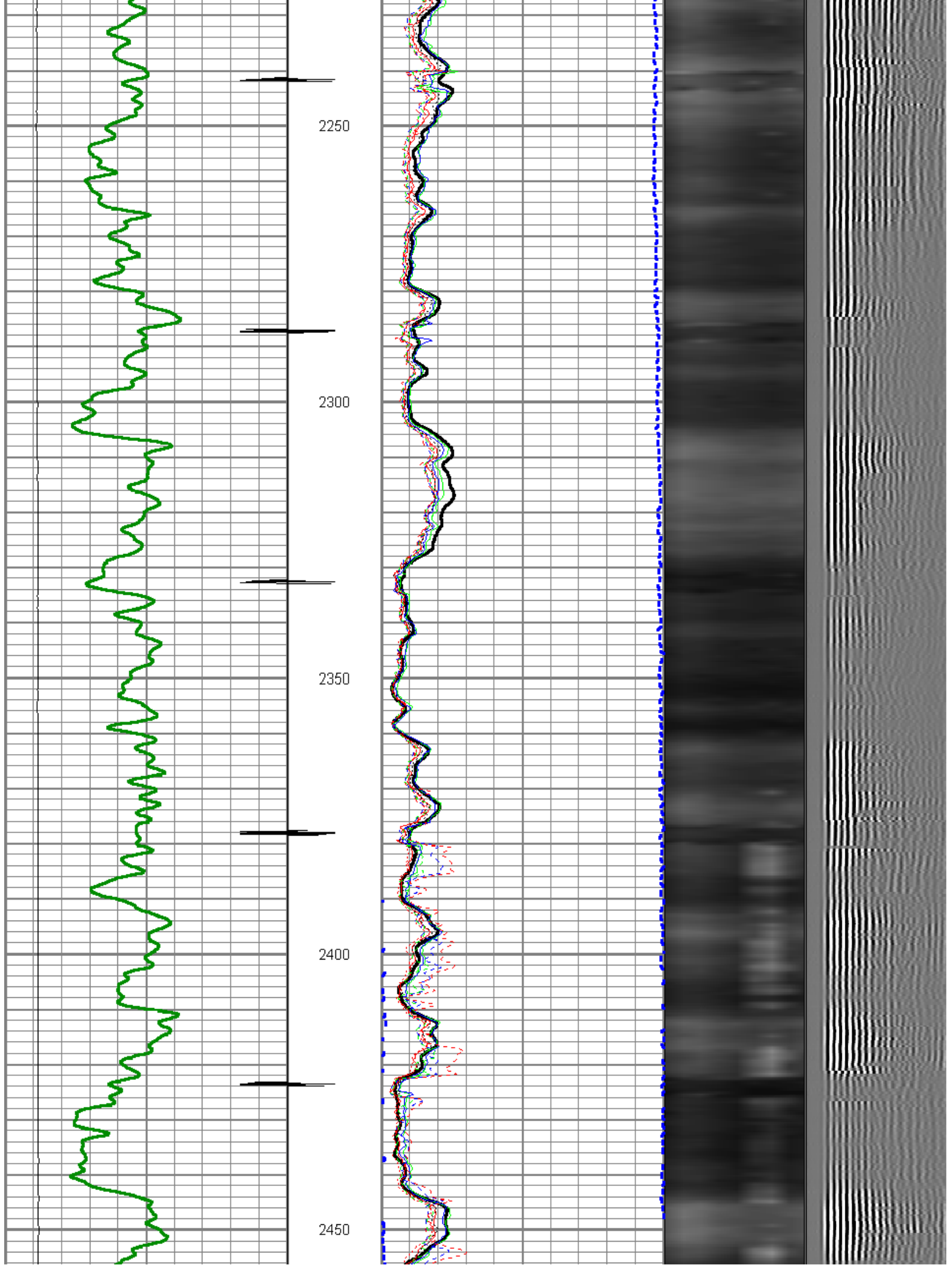


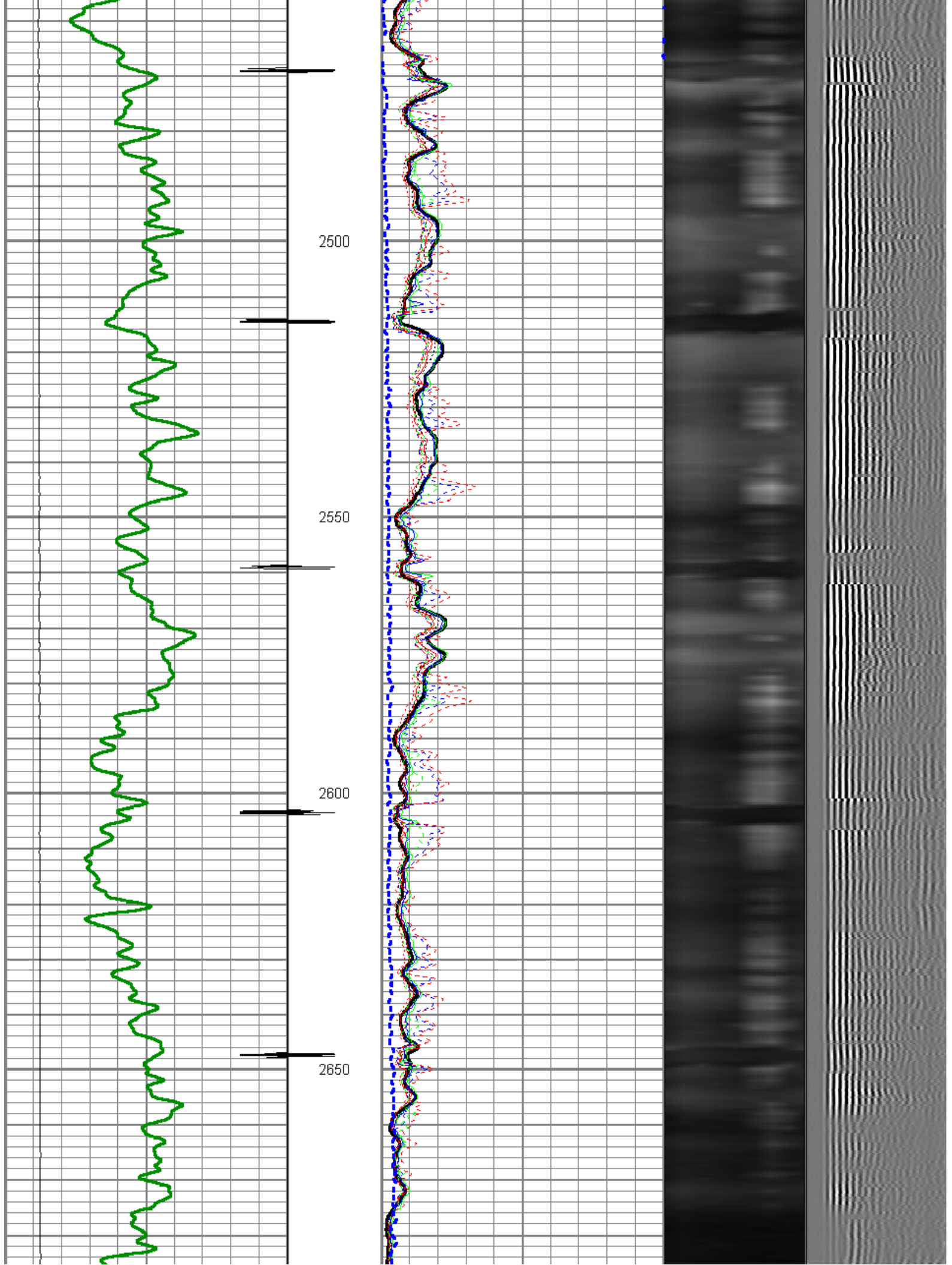


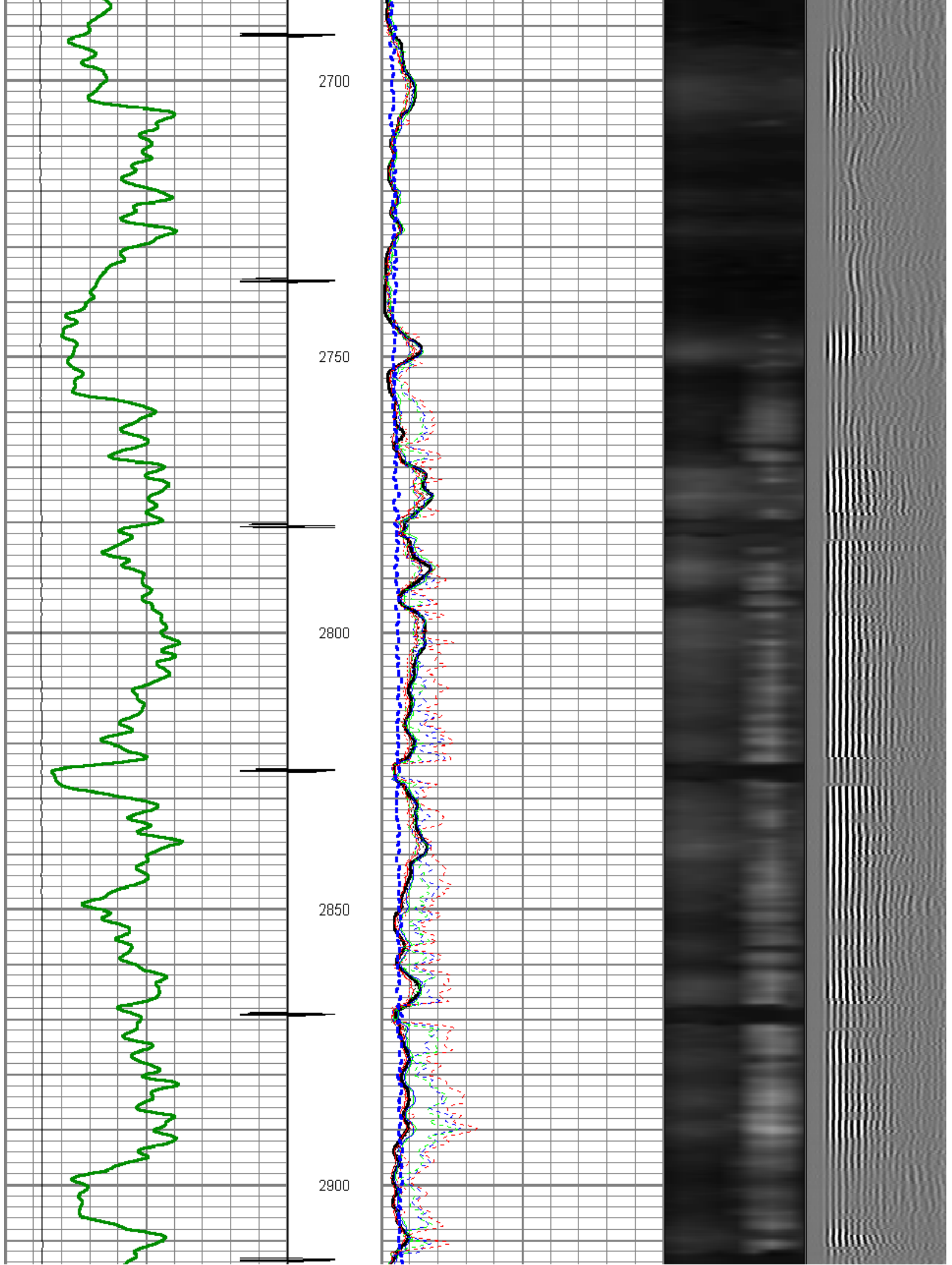


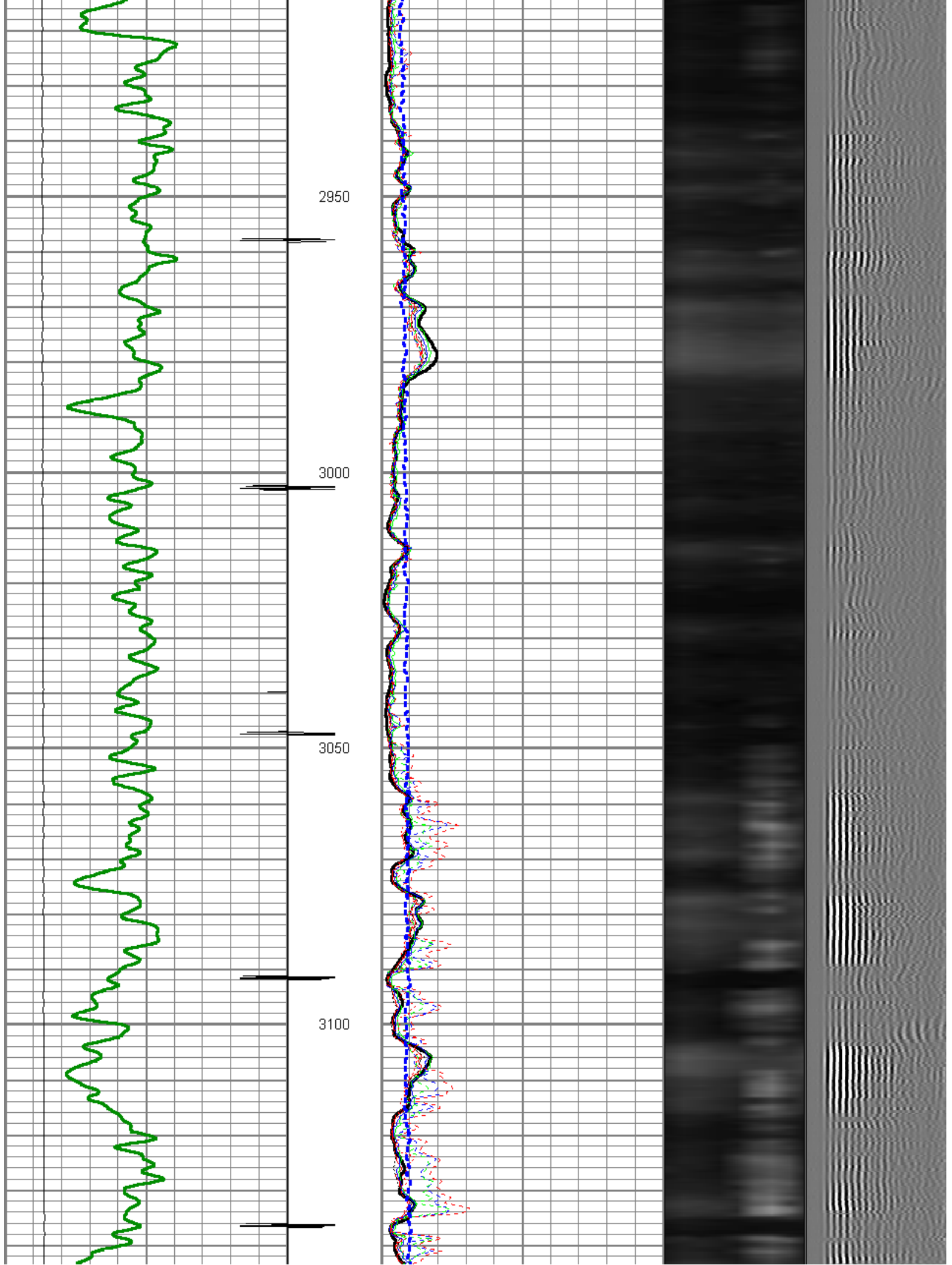


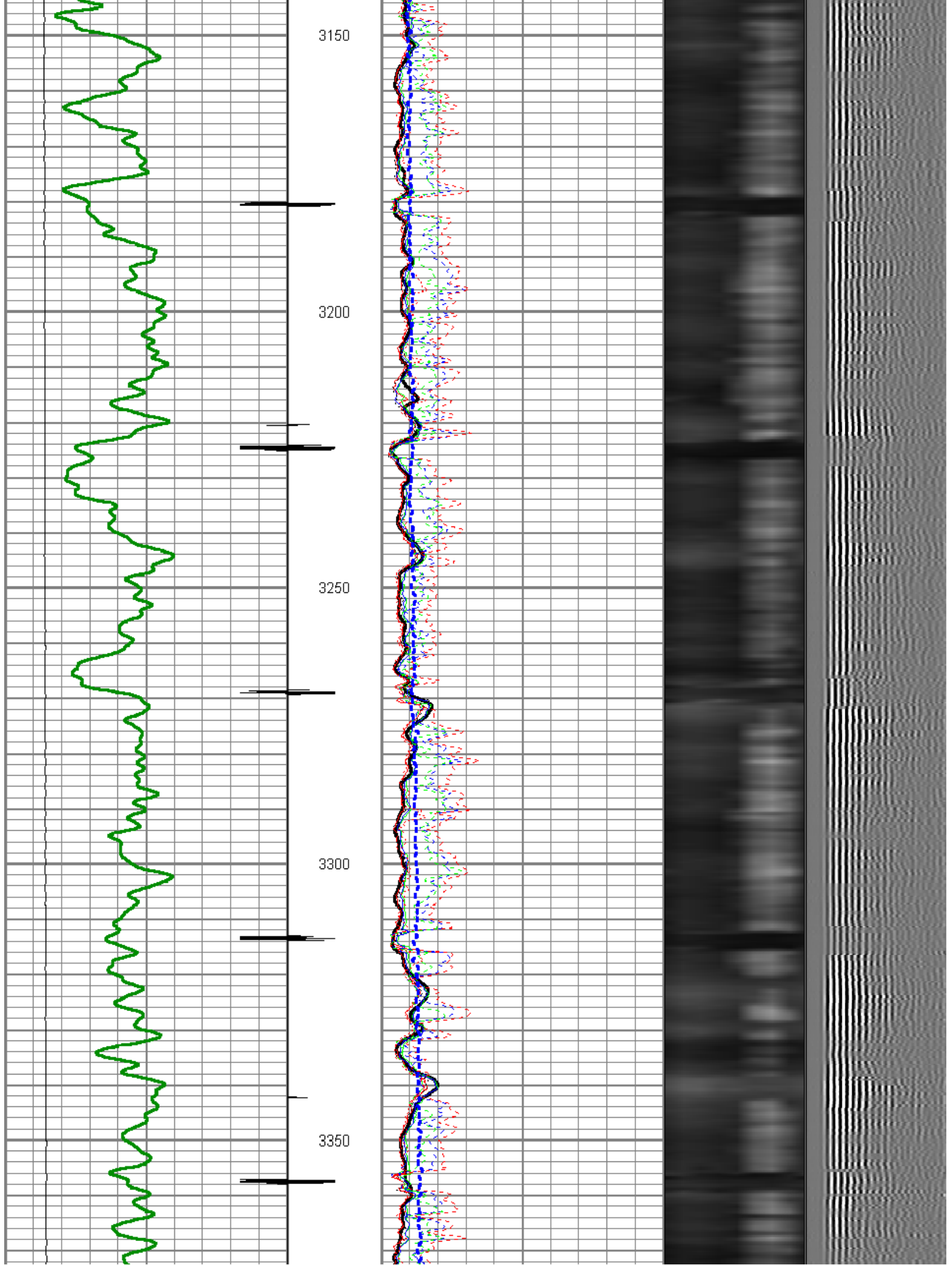


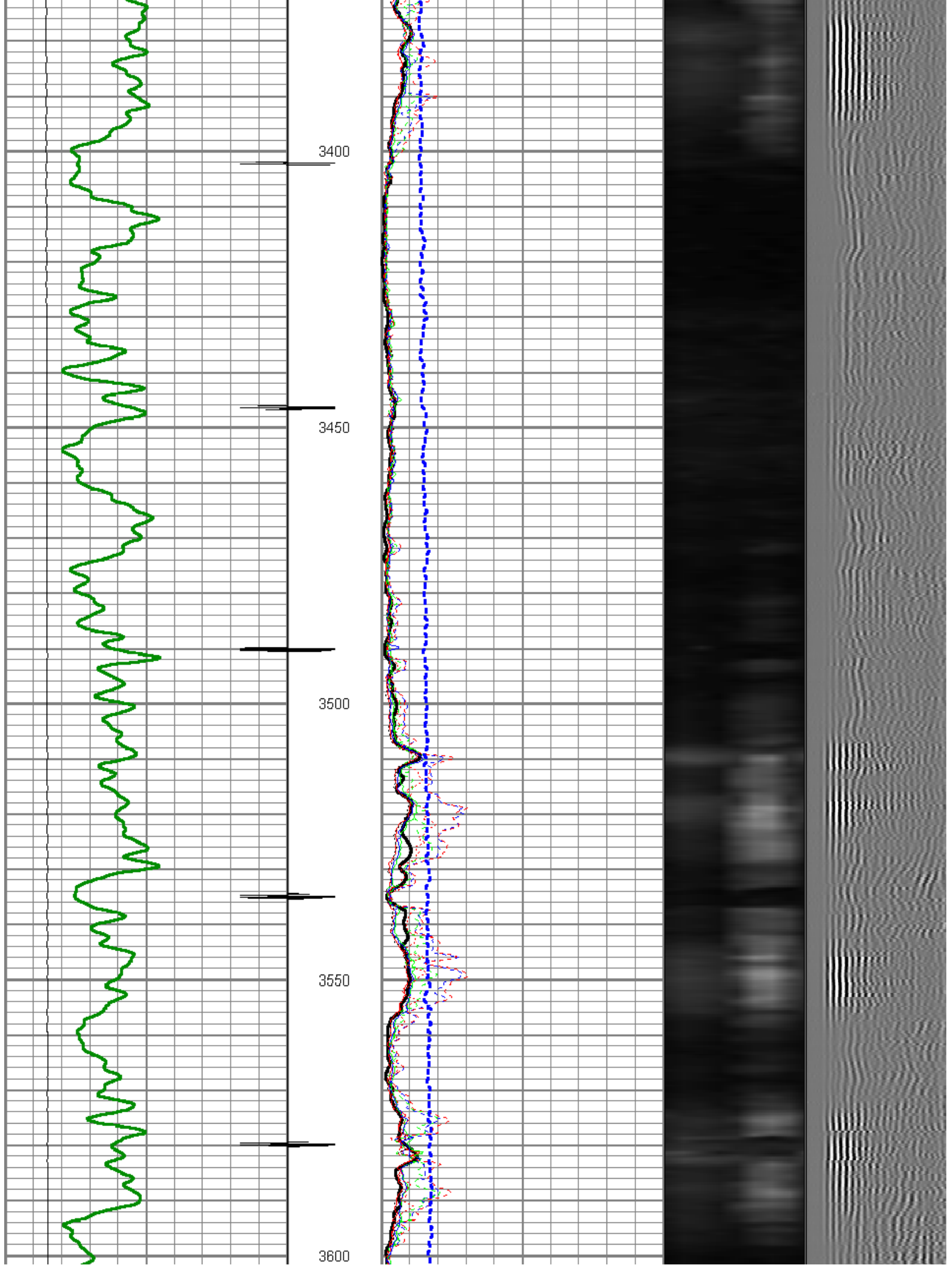


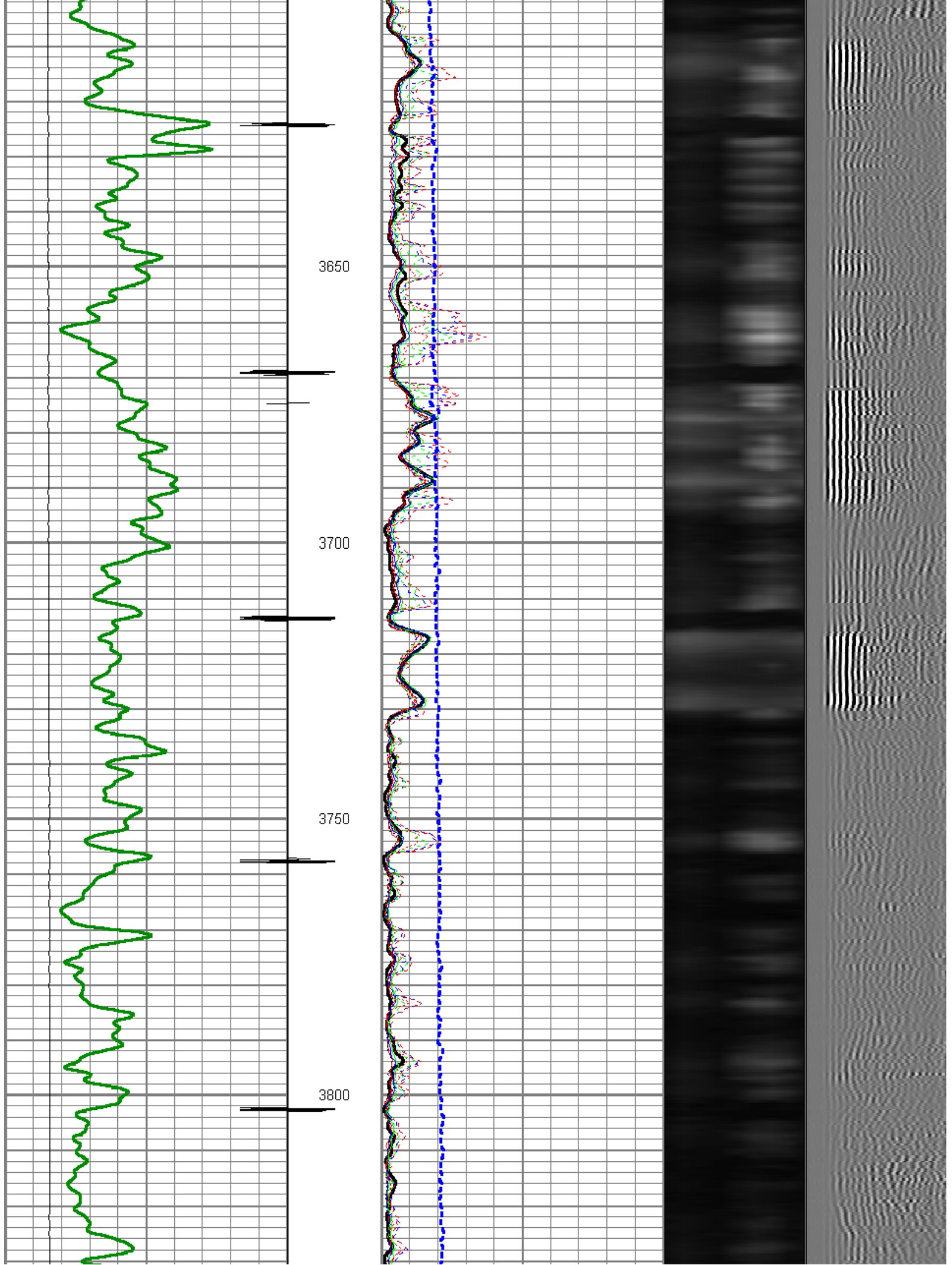


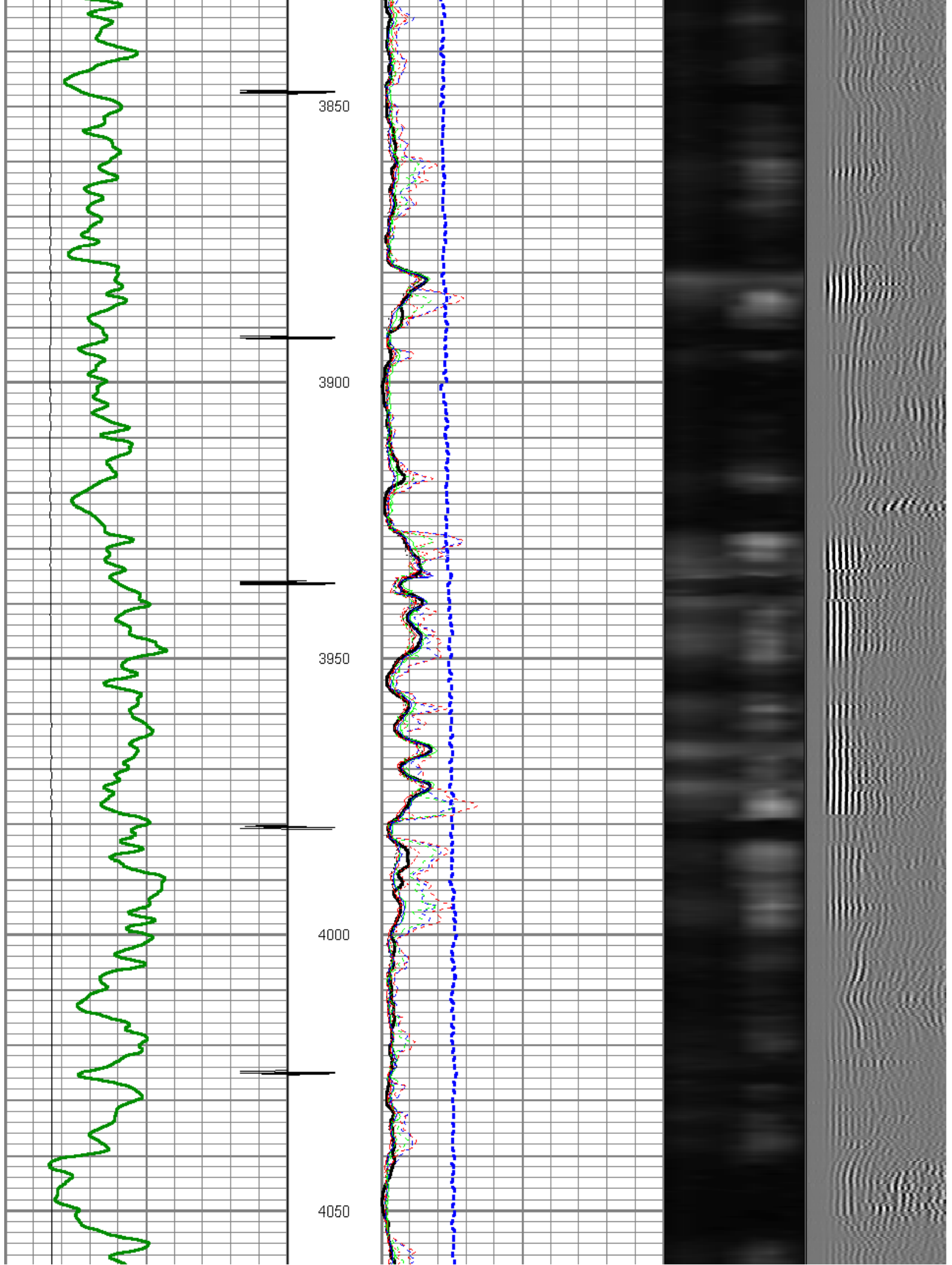


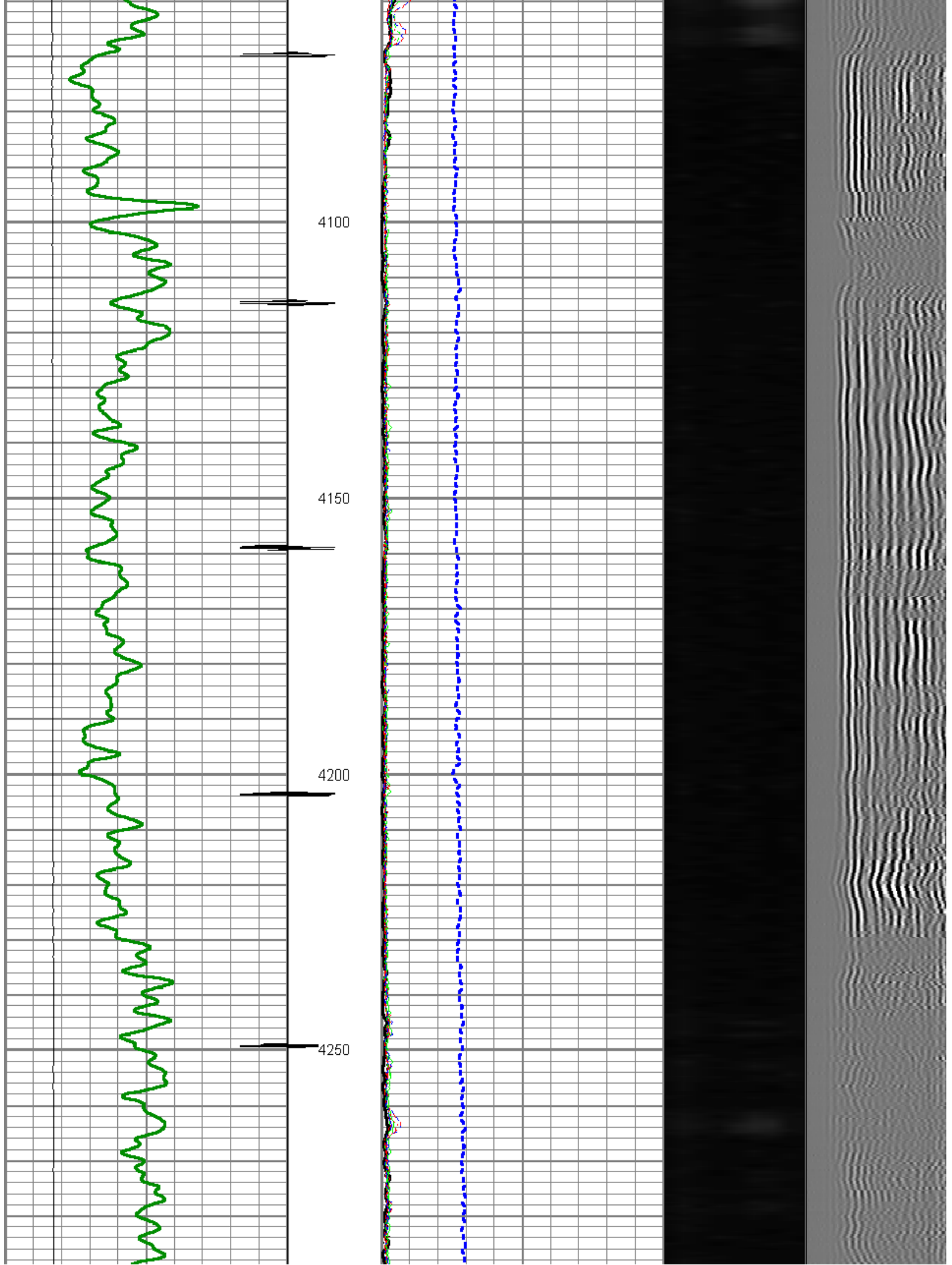


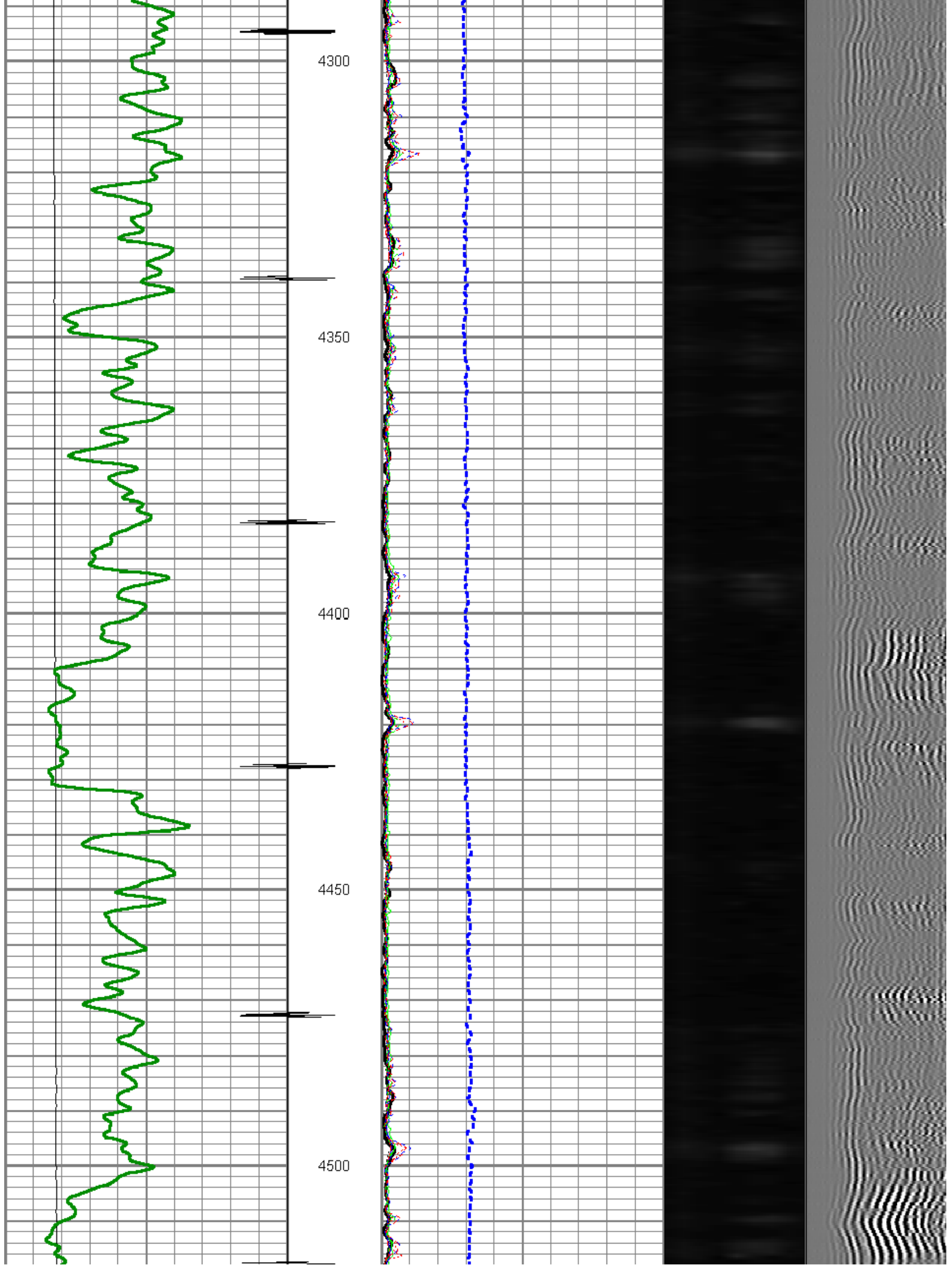


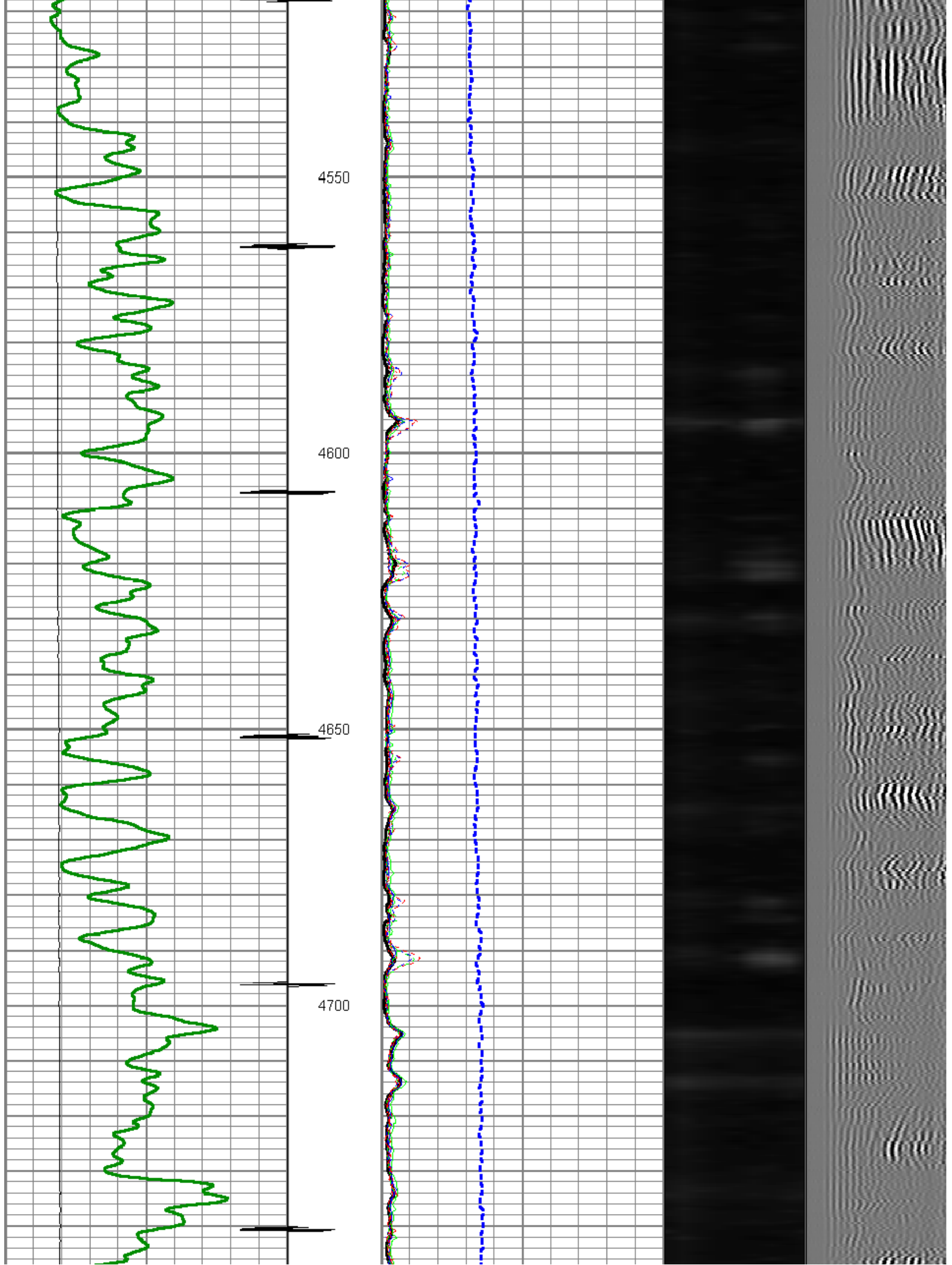


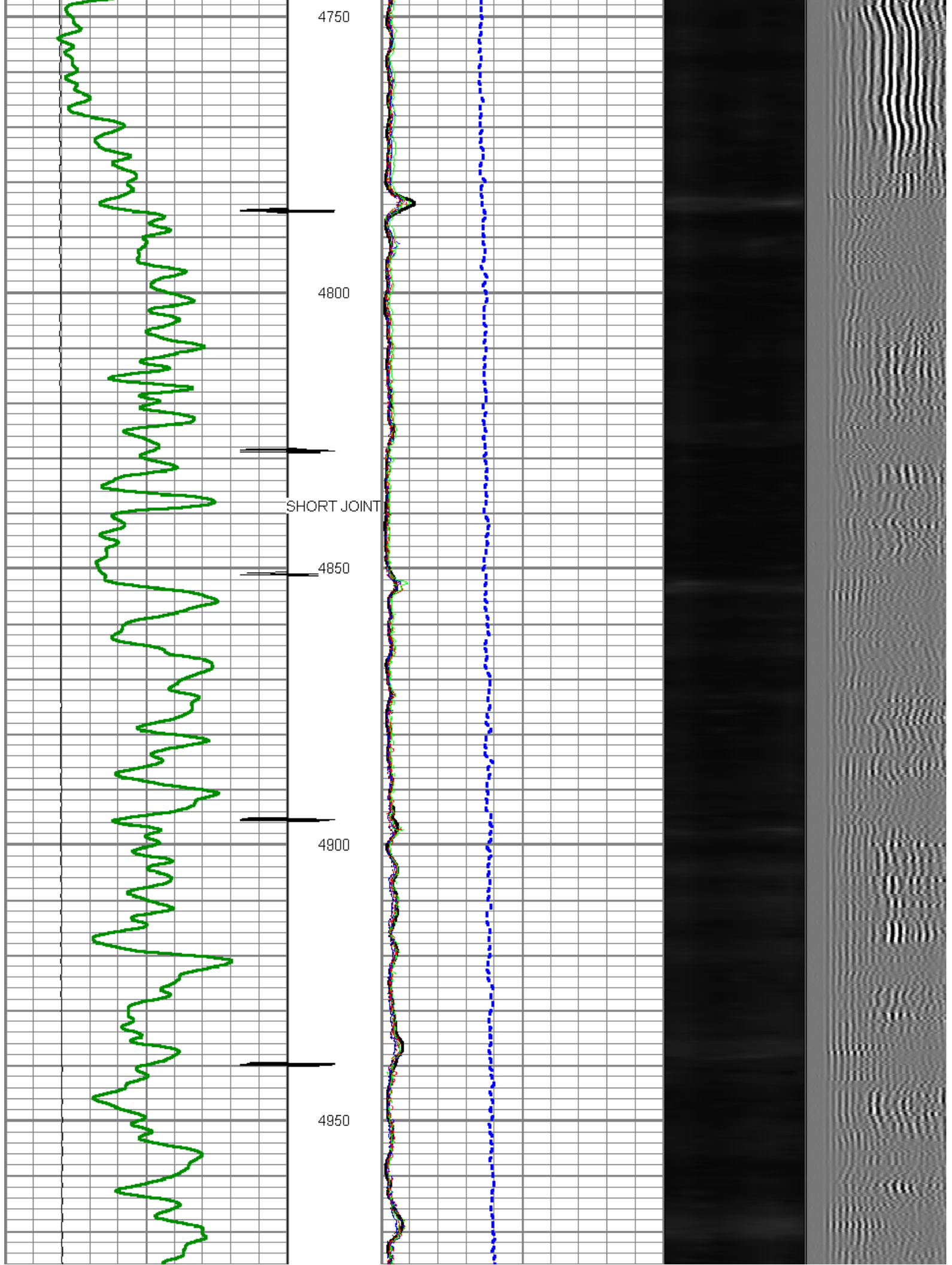


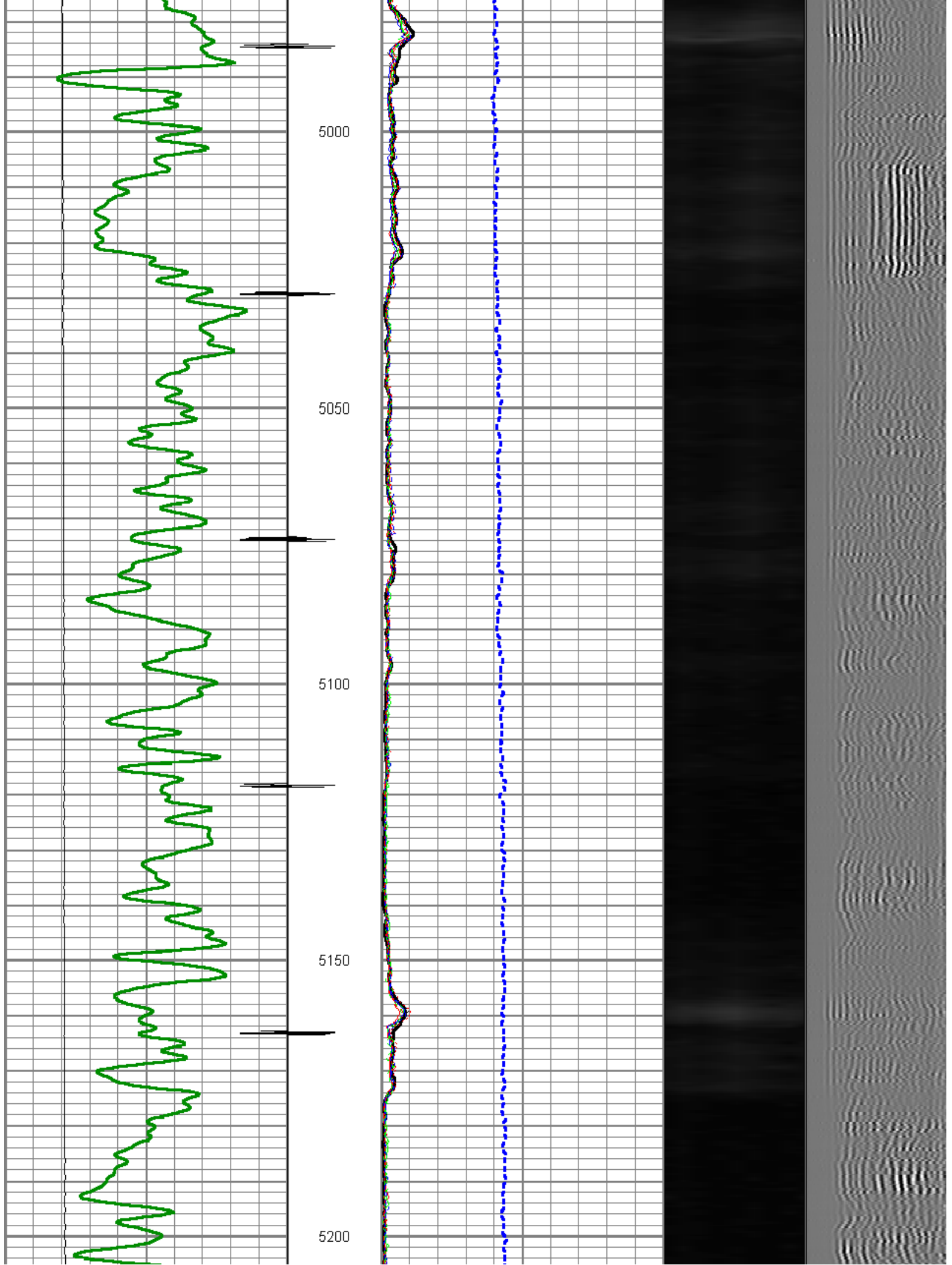


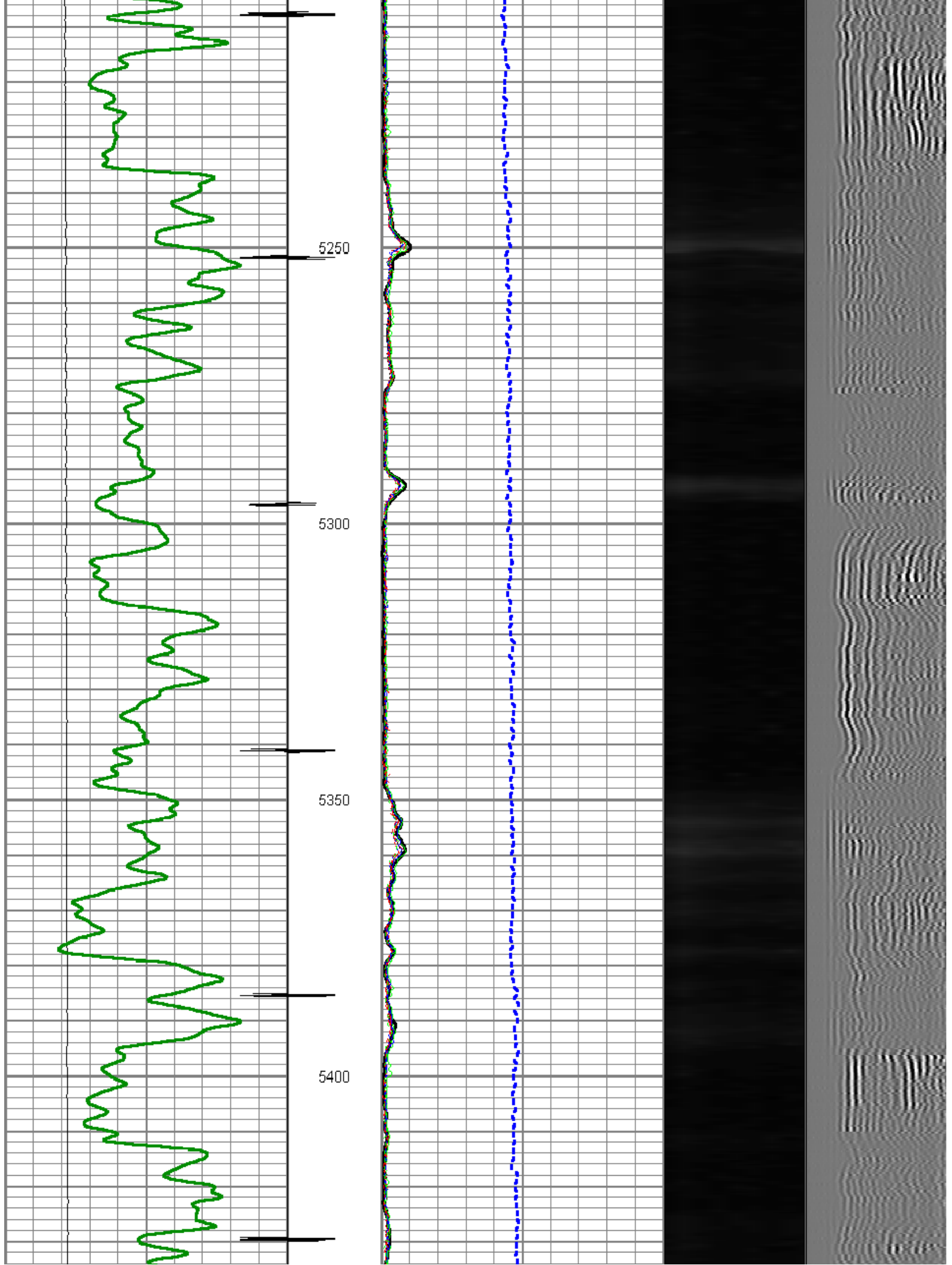


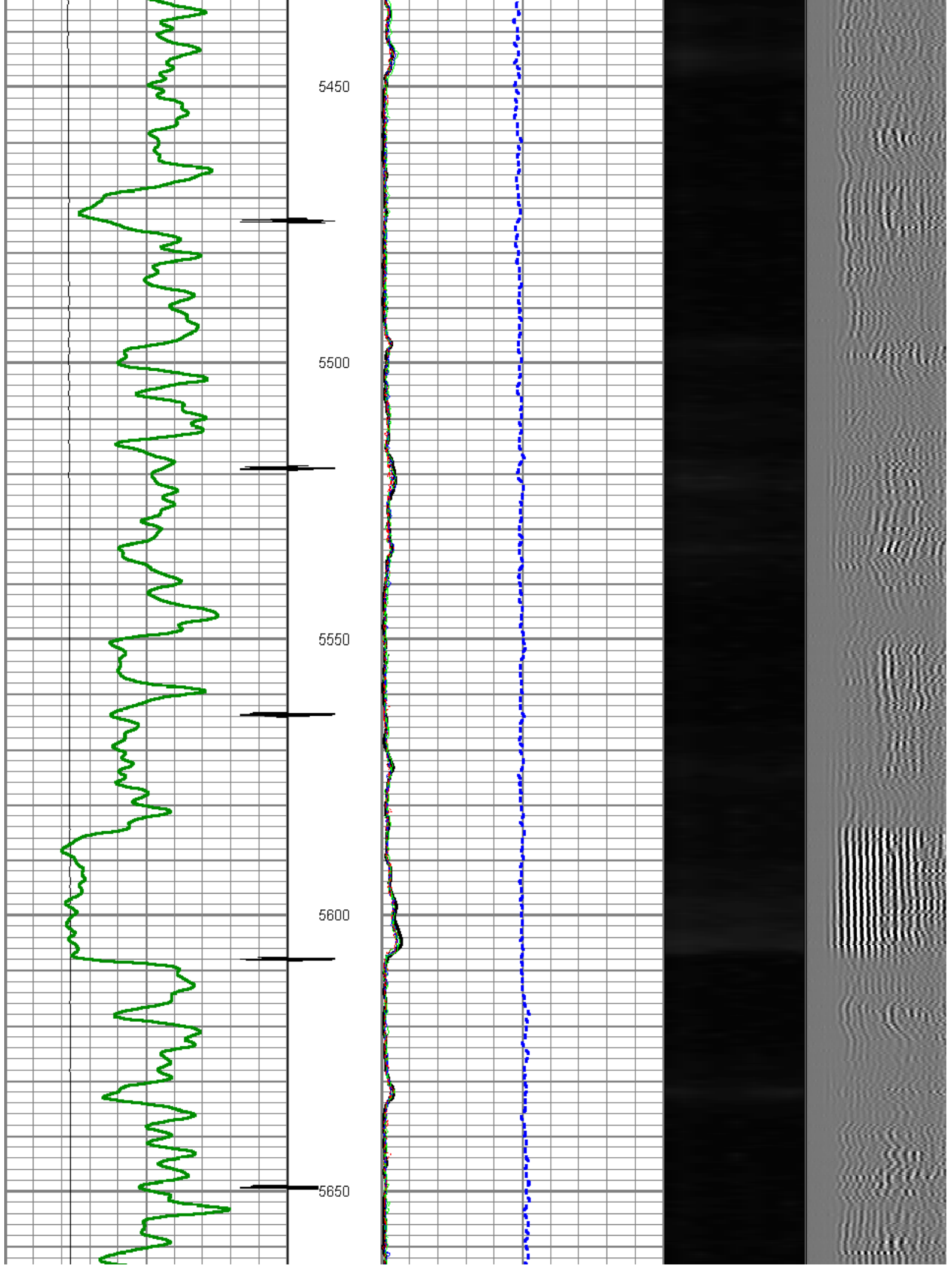


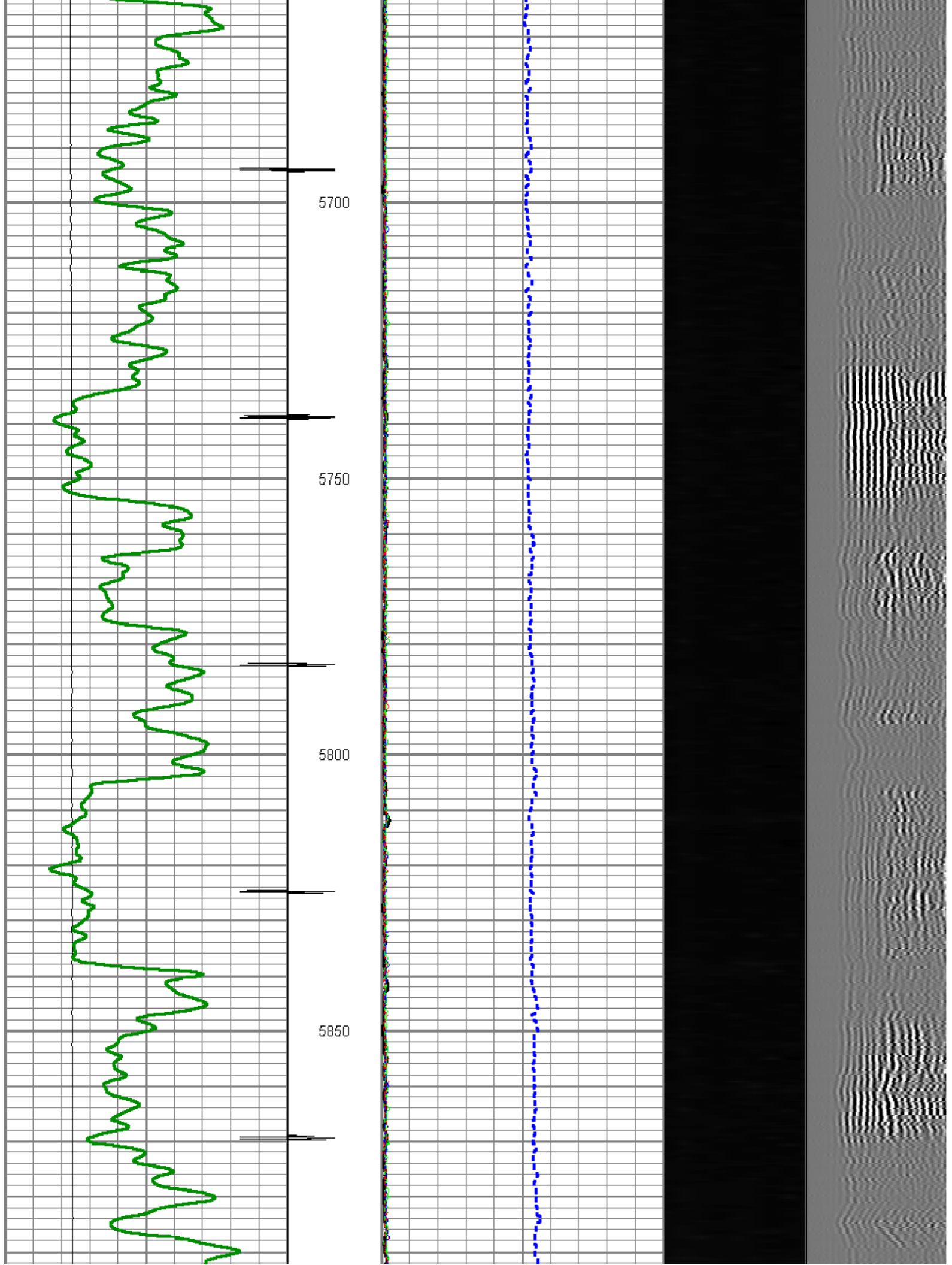


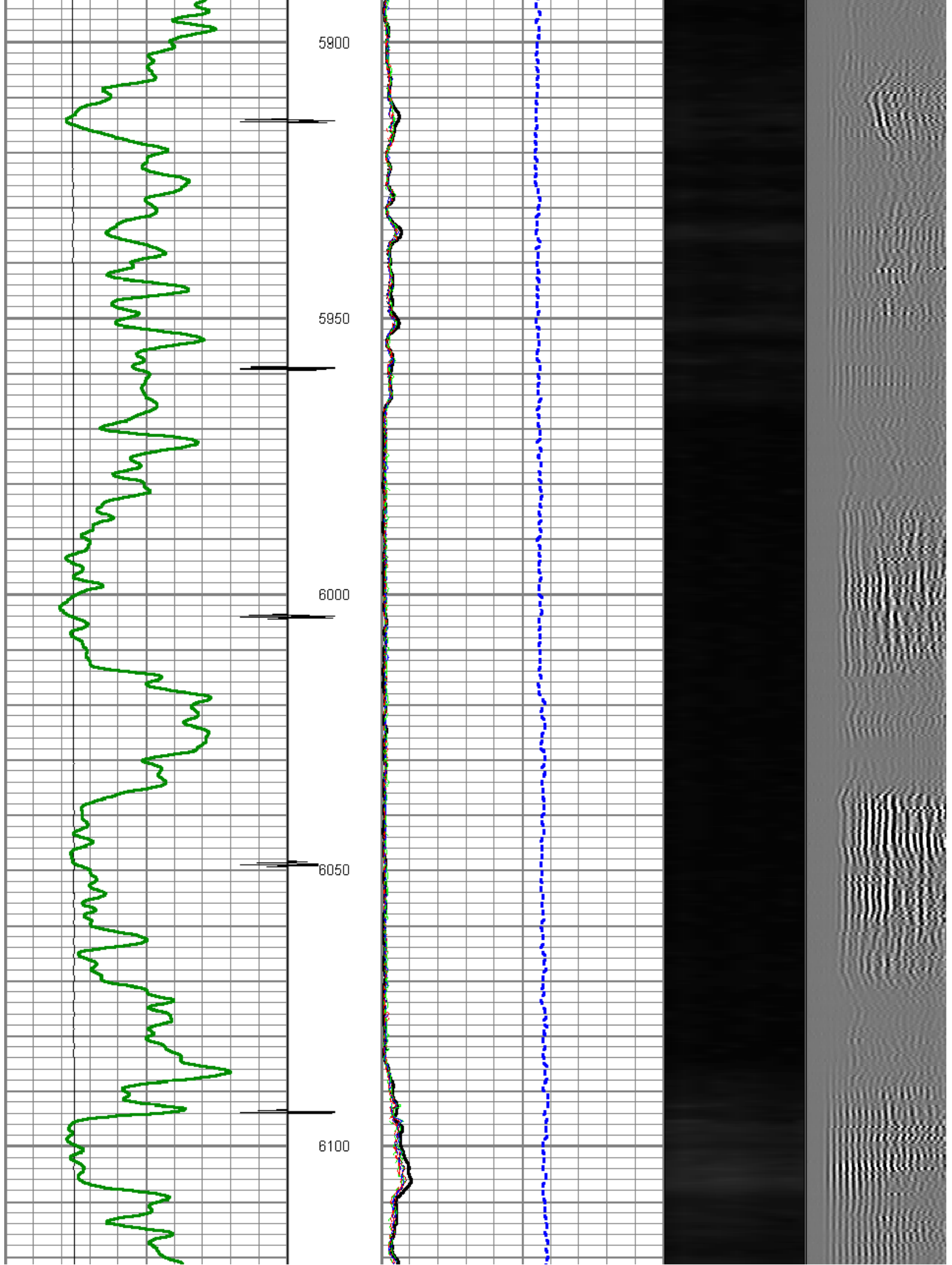


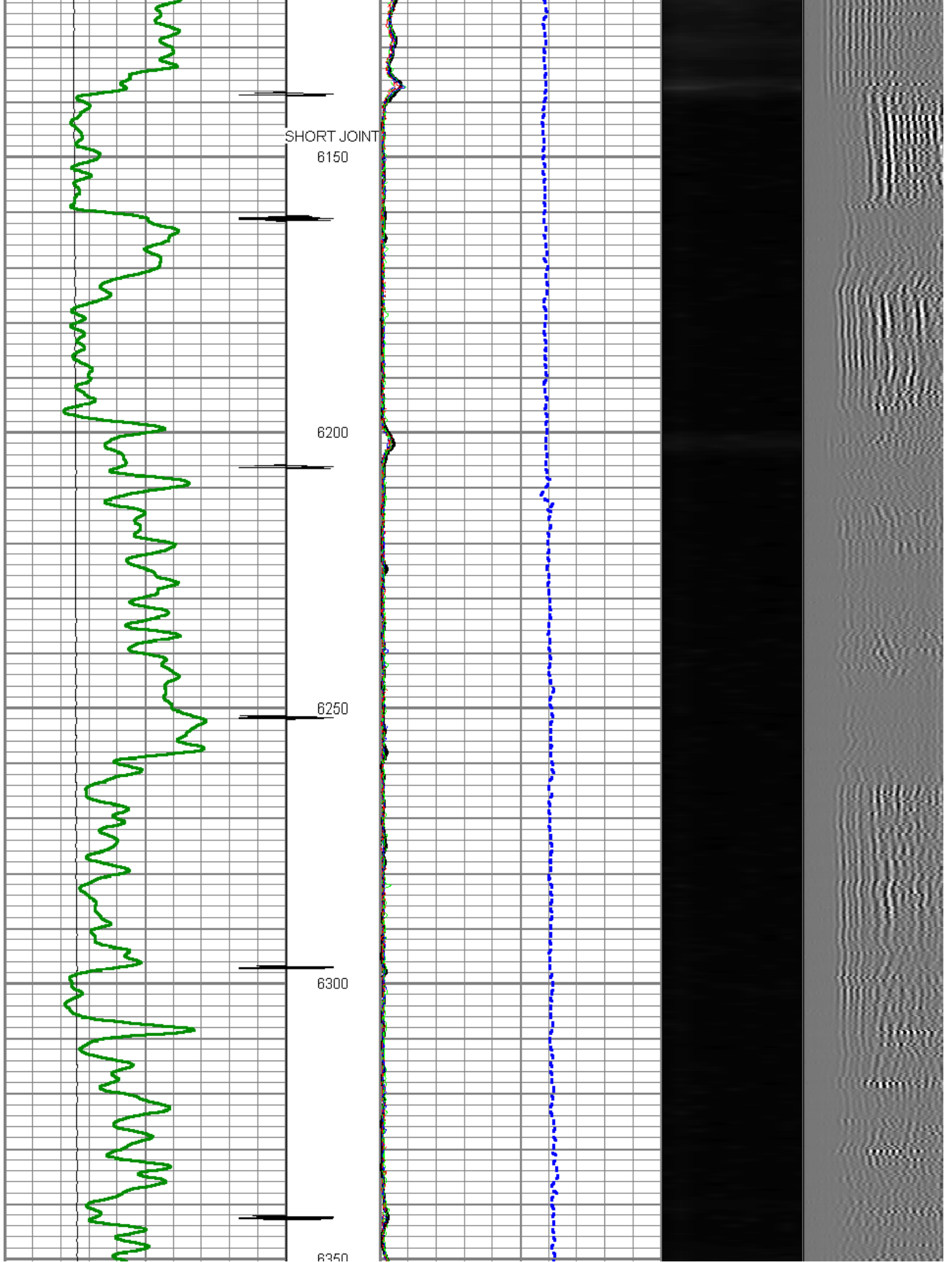


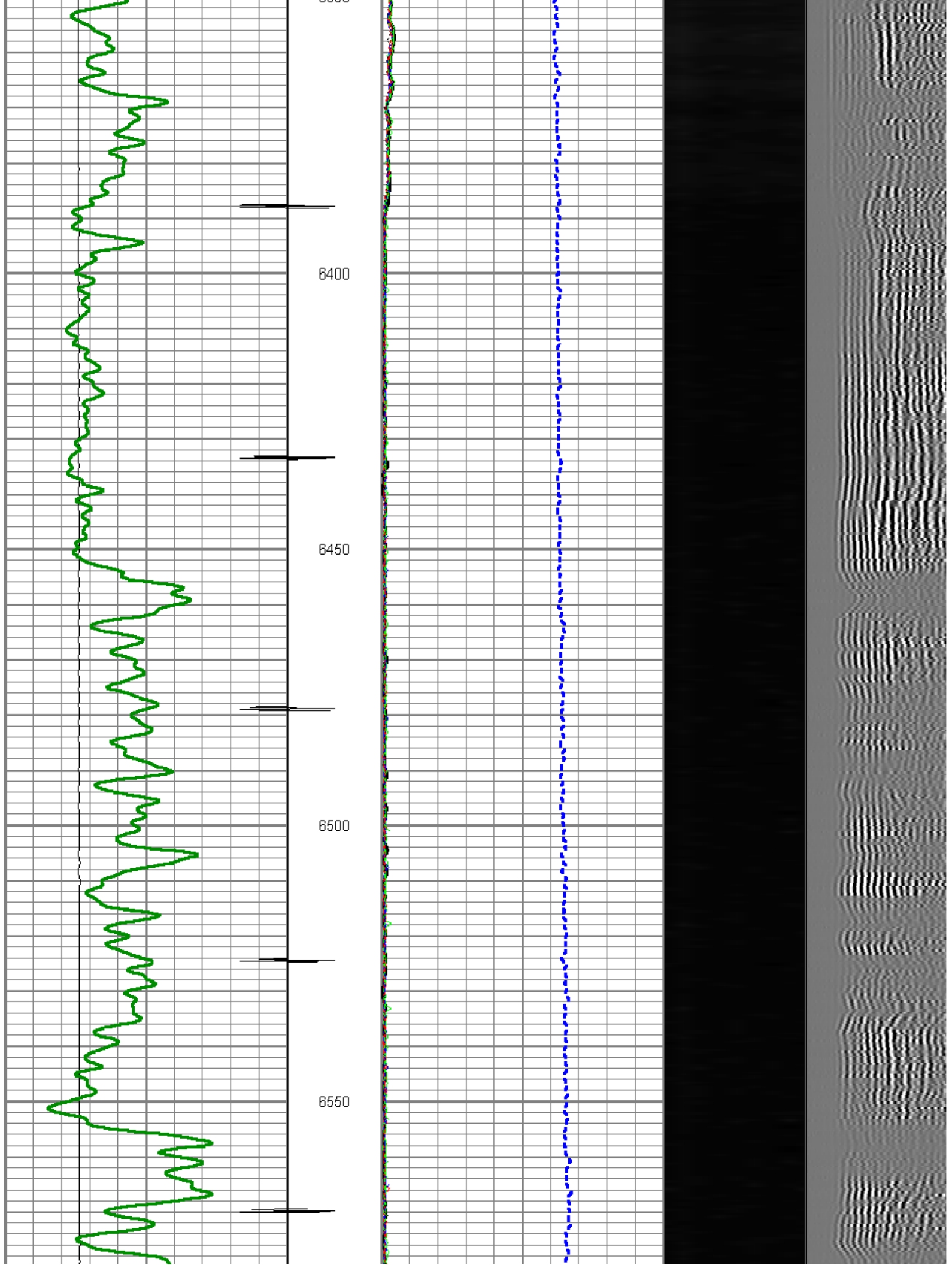


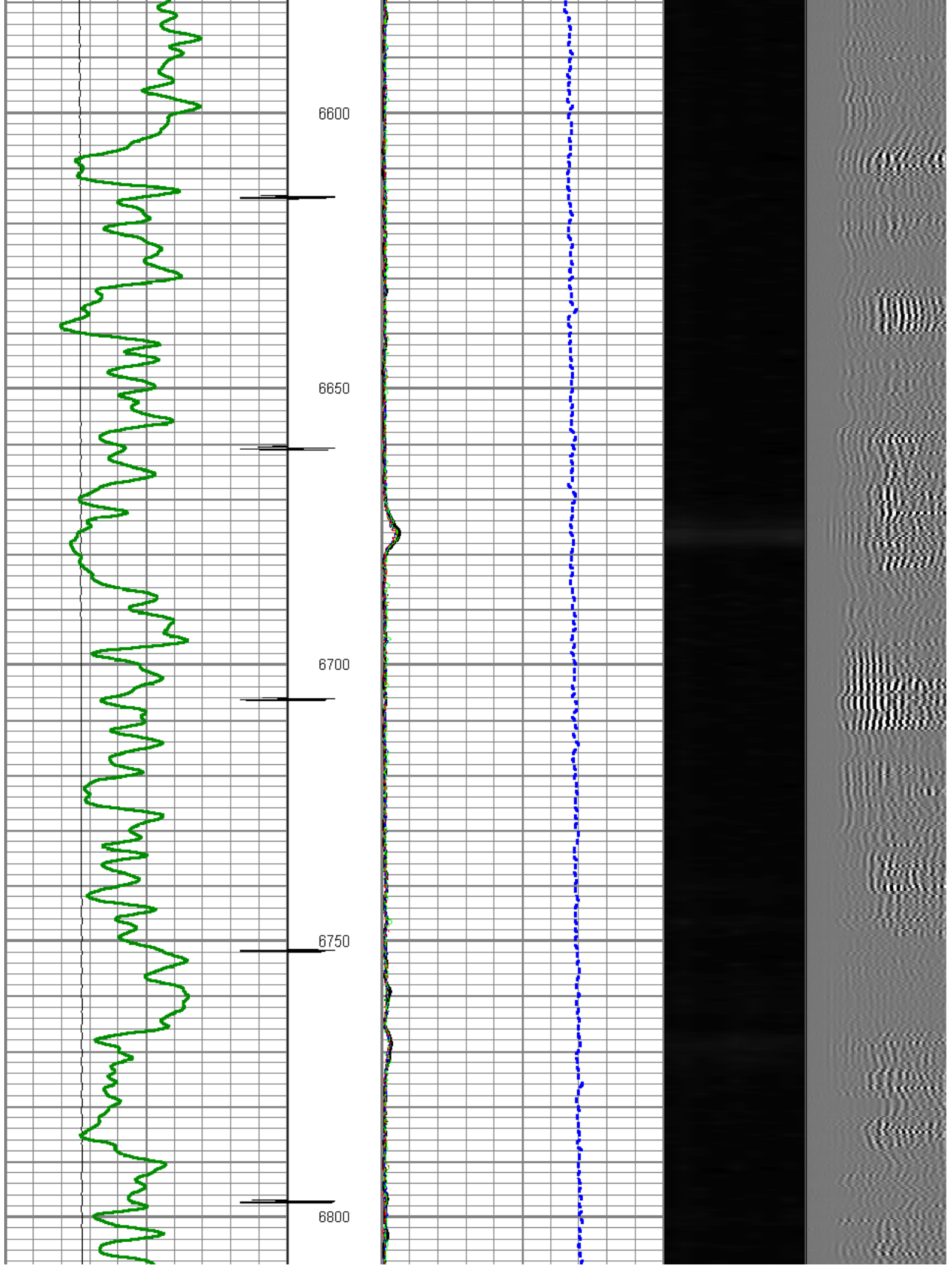


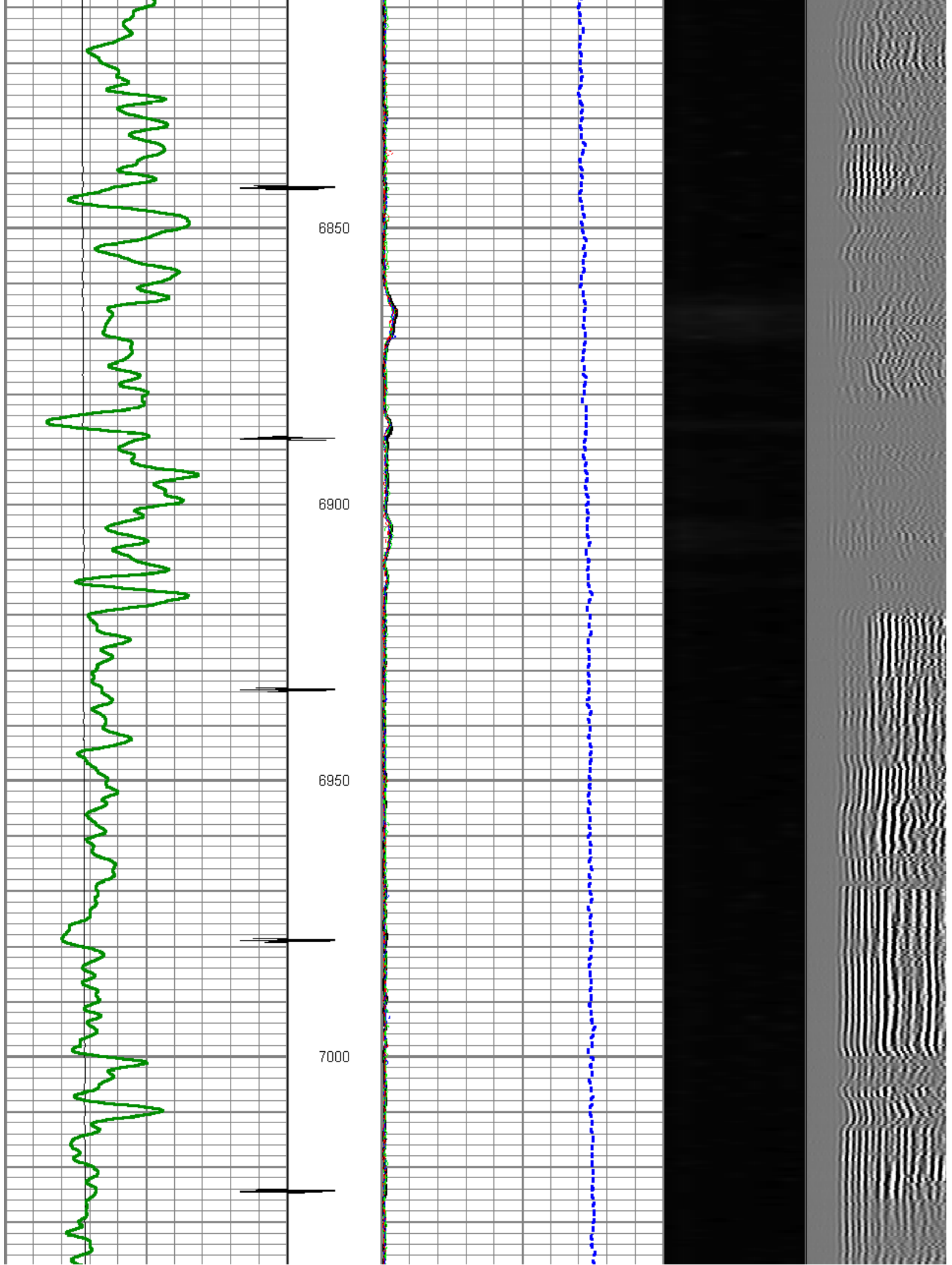


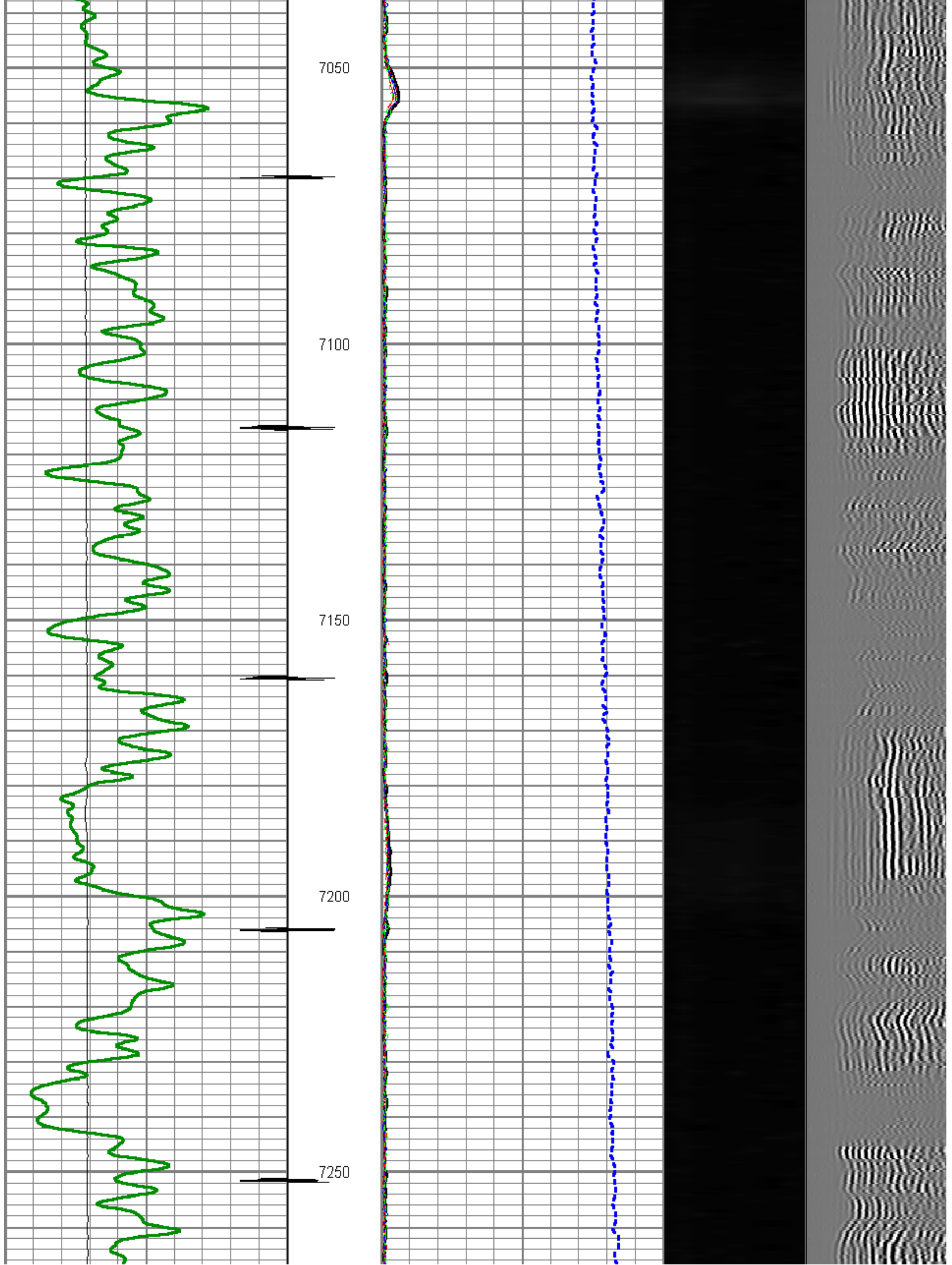


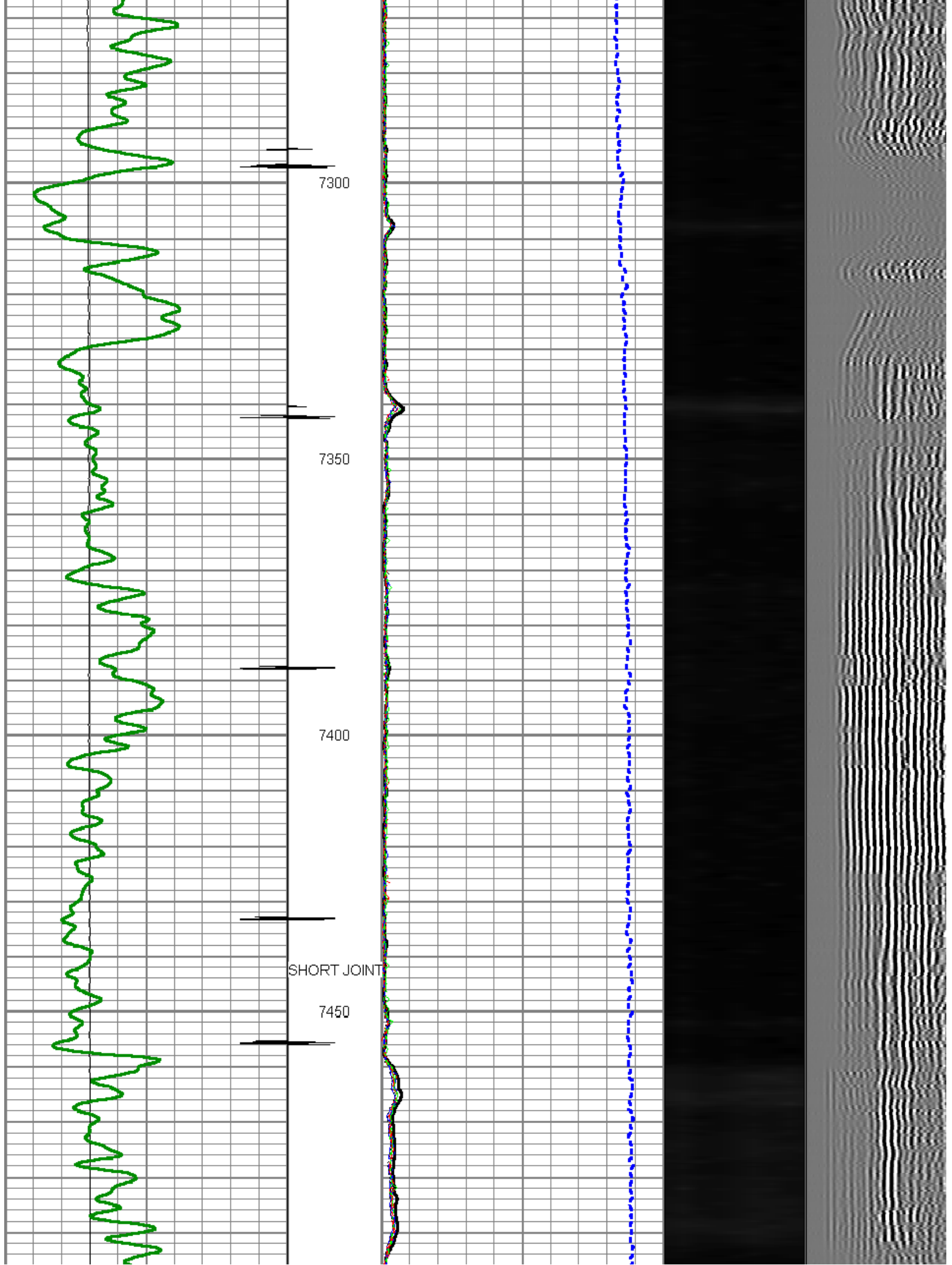


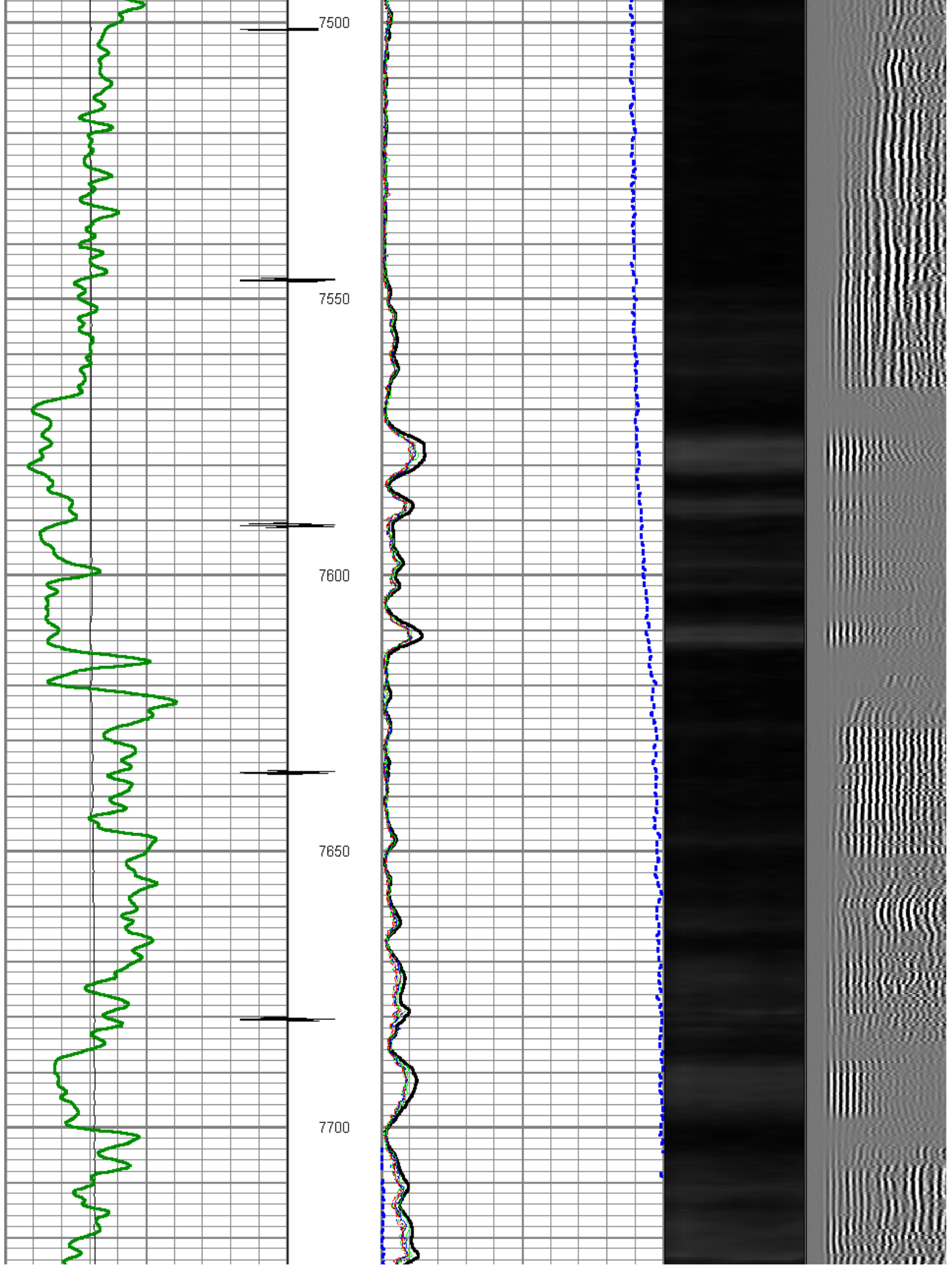


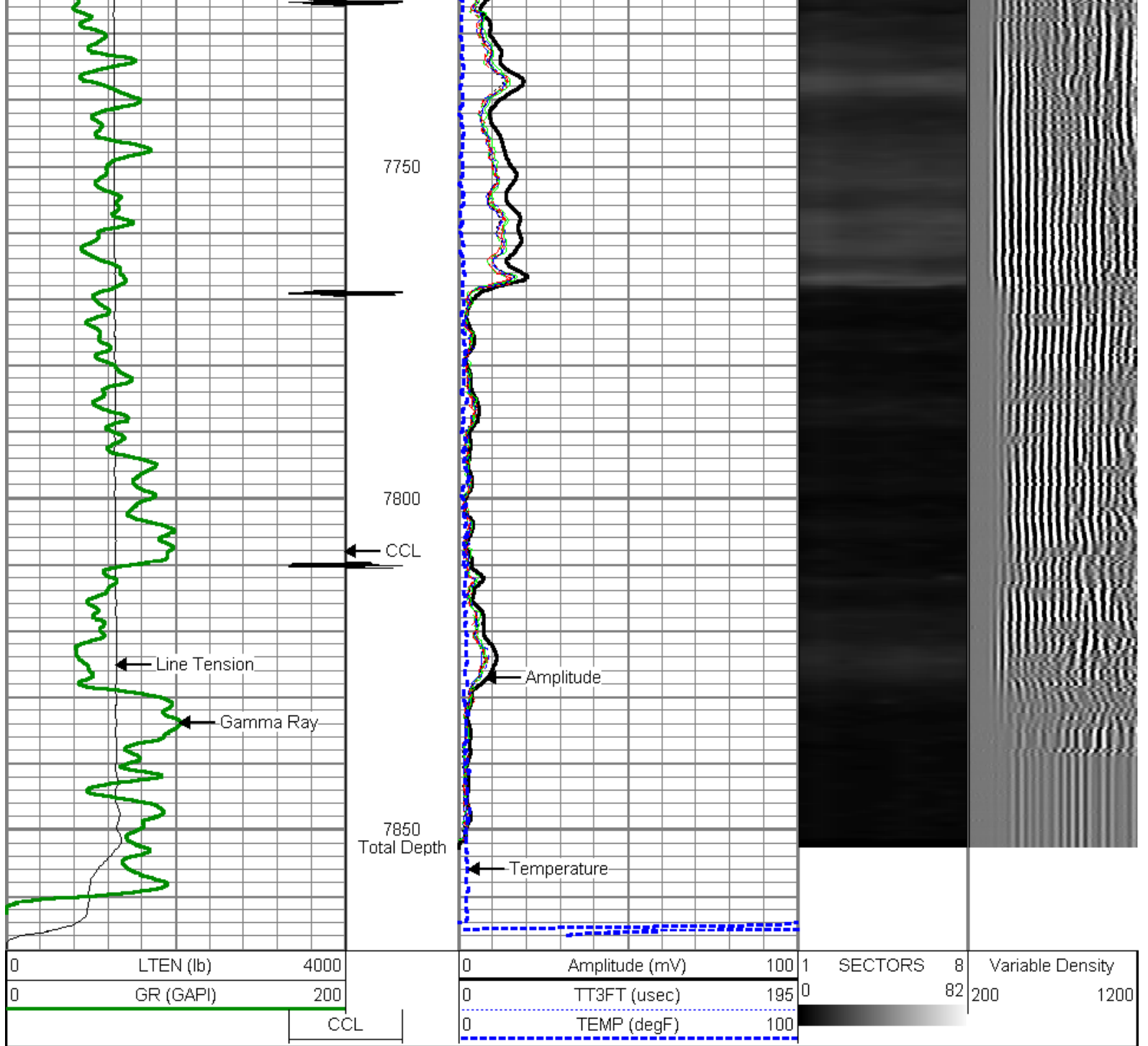


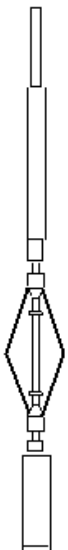










Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) CSS Gamma Ray/CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00

WVF3FT	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					
WVF5FT	12.92					
			SONDEX	2.71	2.75	32.00
GR	5.17		SNDX_GR-SNDX_3_13_GR (000001) Sondex Production Gamma Ray	2.94	3.13	22.05
			TEMP-SNDX_TEMP (SNDX_TEMP_02) Sondex Production Temperature Tool	3.14	1.63	10.00
TEMP	0.58					

Dataset: mca11cbl.db: field/well/run1/pass2
 Total Length: 23.90 ft
 Total Weight: 248.07 lb
 O.D.: 3.13 in



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