



Mesa Wireline

CEMENT BOND LOG

Company ANTERO RESOURCES PICEANCE CORP.
Well VALLEY FARMS 17
Field MAMM CREEK
County GARFIELD
State COLORADO

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Location: SEC. 13 TWP. 06S RGE. 92W
SHL: 2471' FSL & 1806' FWL
BHL: 1700' FNL & 0771' FNL
Permanent Datum GROUND LEVEL Elevation 5654'
Log Measured From KELLY BUSHING = 24 FT
Drilling Measured From KELLY BUSHING
Other Services NONE
Elevation K.B. 5678'
D.F. 5677'
G.L. 5654'

Date 102 DEC 2011

Run Number	ONE
Depth Driller	7722'
Depth Logger	7630'
Bottom Logged Interval	7630'
Top Log Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	~8.34 #/GAL
Max. Recorded Temp.	214 DEG F
Estimated Cement Top	2710'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	ST0301/RBTD4
Location	GRAND JUNCTION
Recorded By	D. SOLIS
Witnessed By	R. TOLLE

Borehole Record		Tubing Record			
Run Number	Bit	From	To	Size	Weight
UNK.				UNK.	

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	32.0#	SURFACE	1056'
Prot. String				
Production String	4.5"	11.6#	SURFACE	T.D.
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

RBT-GR-TEMP RAN IN COMBINATION.
CORRELATED @ 7530' TO WEATHERFORD TRIPLE COMBO LOG DATED: 09 NOV 2011.
CORRELATE ALL PERF DEPTHS TO OPEN HOLE PRIOR TO PERFORATING.

SHORT JOINTS @: 4922' - 4944', 6006' - 6028', AND 7176' - 7198'.

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-04

degF

0

50

100


150

200

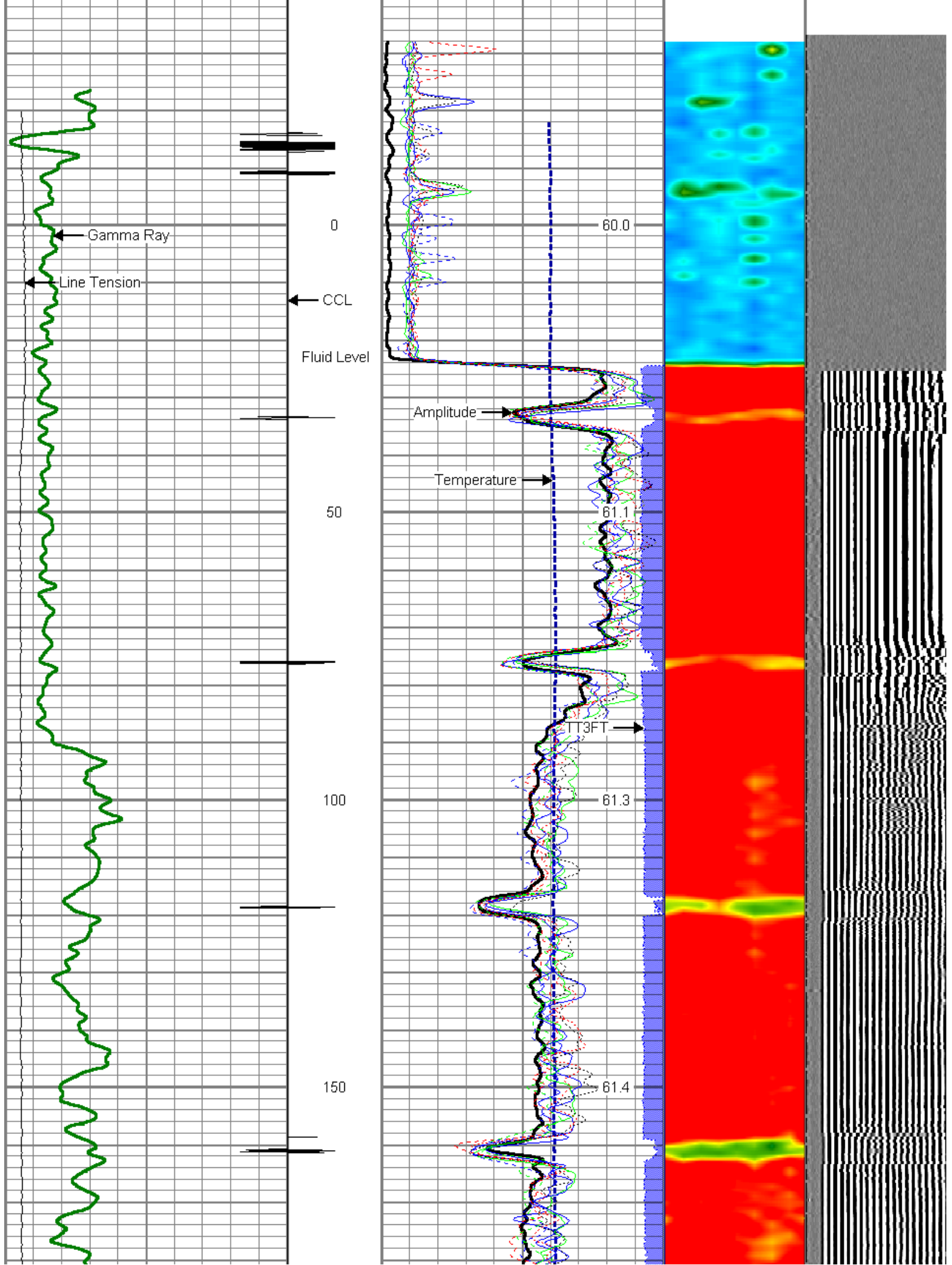
250

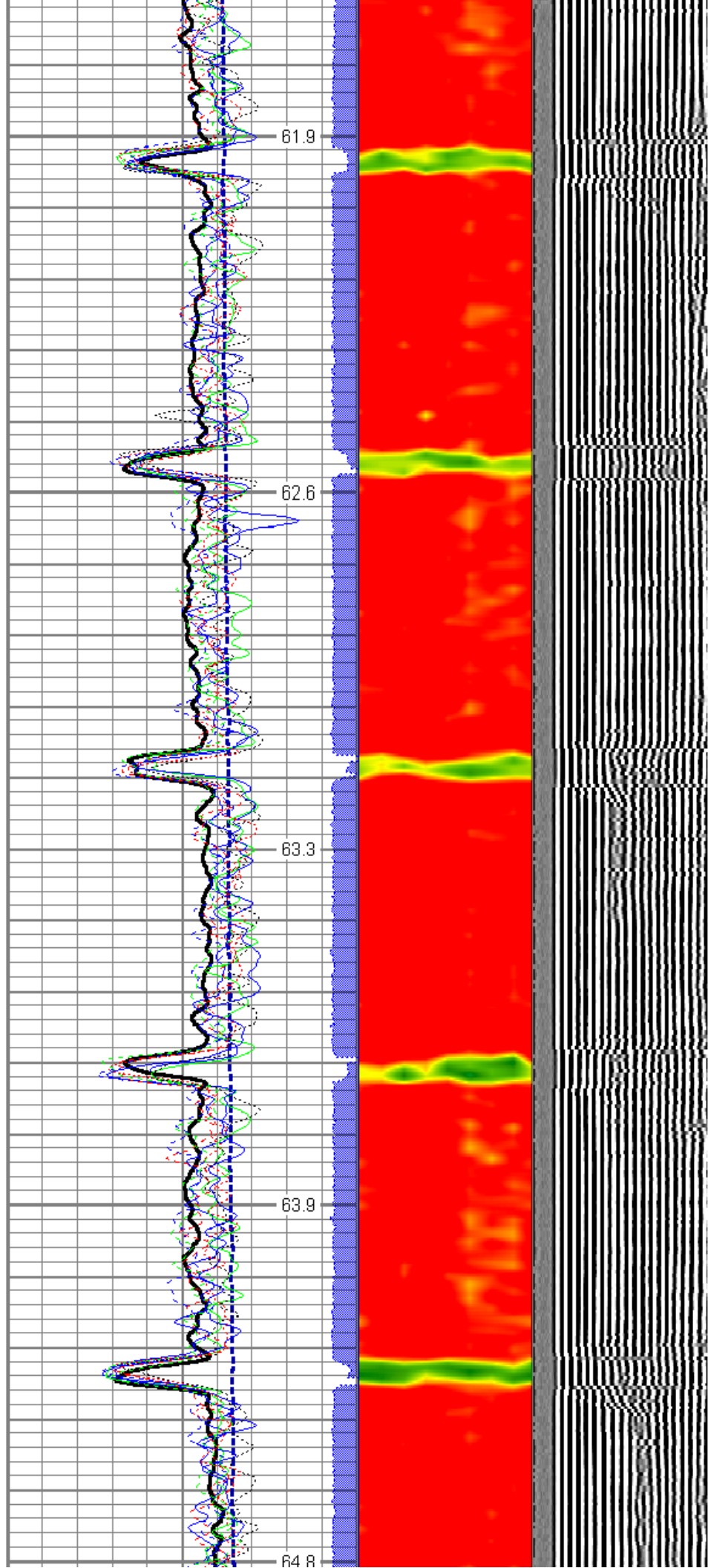
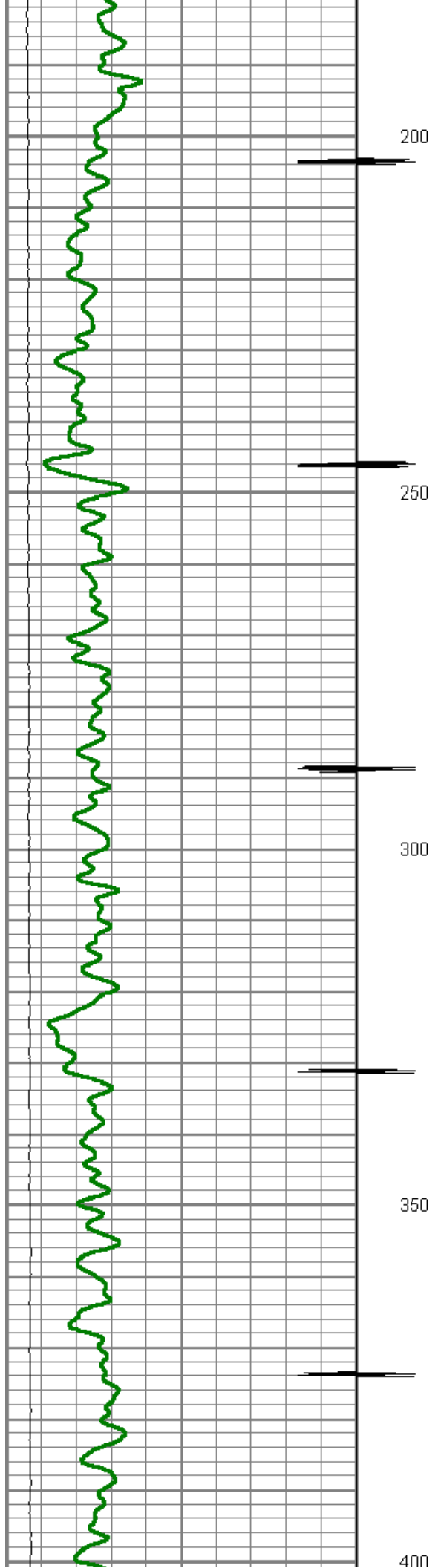

$$5'' = 100'$$

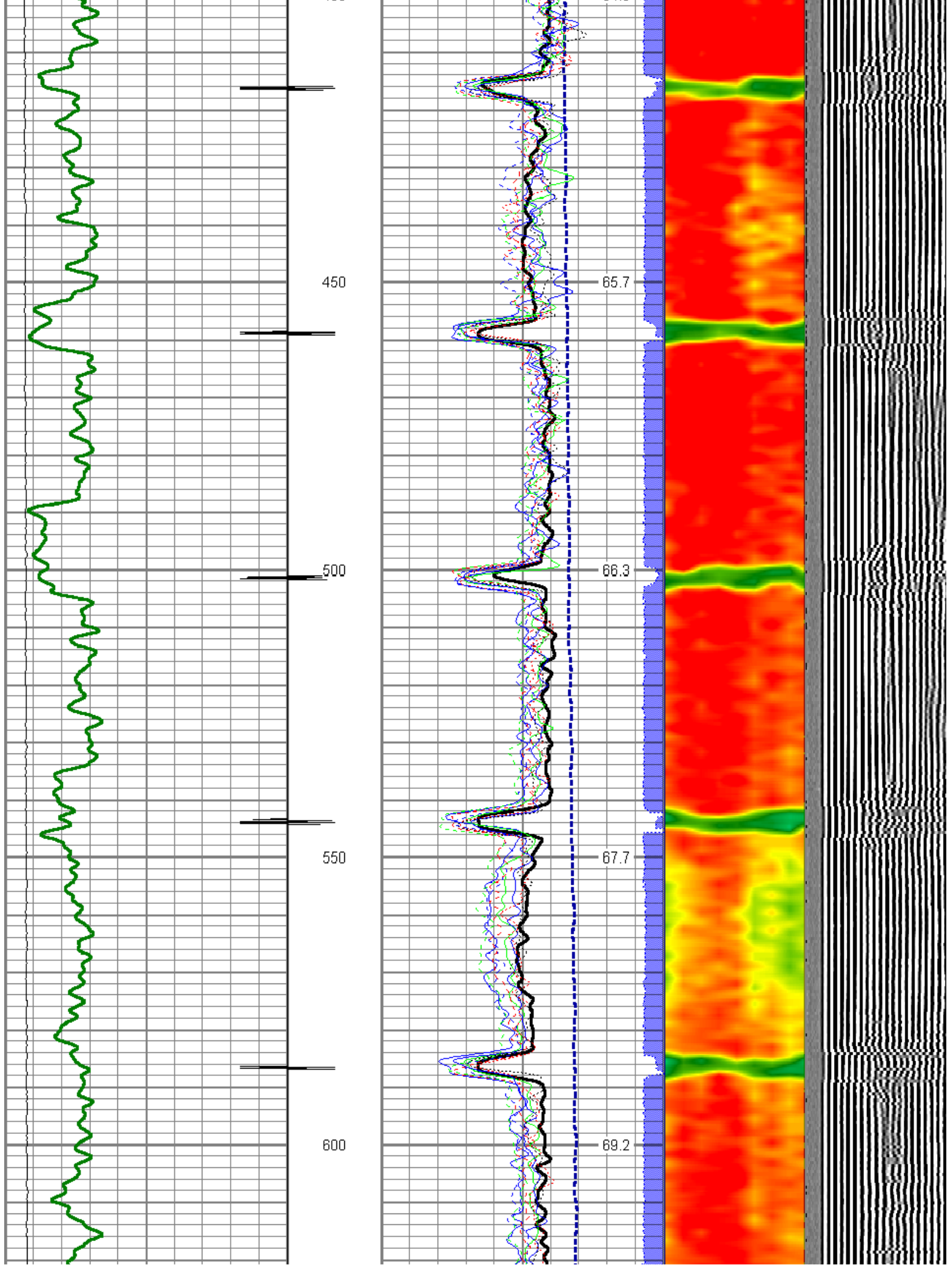
Database File: a_vfi7_cbl.db
Dataset Pathname: pass12.2
Presentation Format: rbtfinal
Dataset Creation: Fri Dec 02 18:46:42 2011 by Calc SCH 110722
Charted by: Depth in Feet scaled 1:240

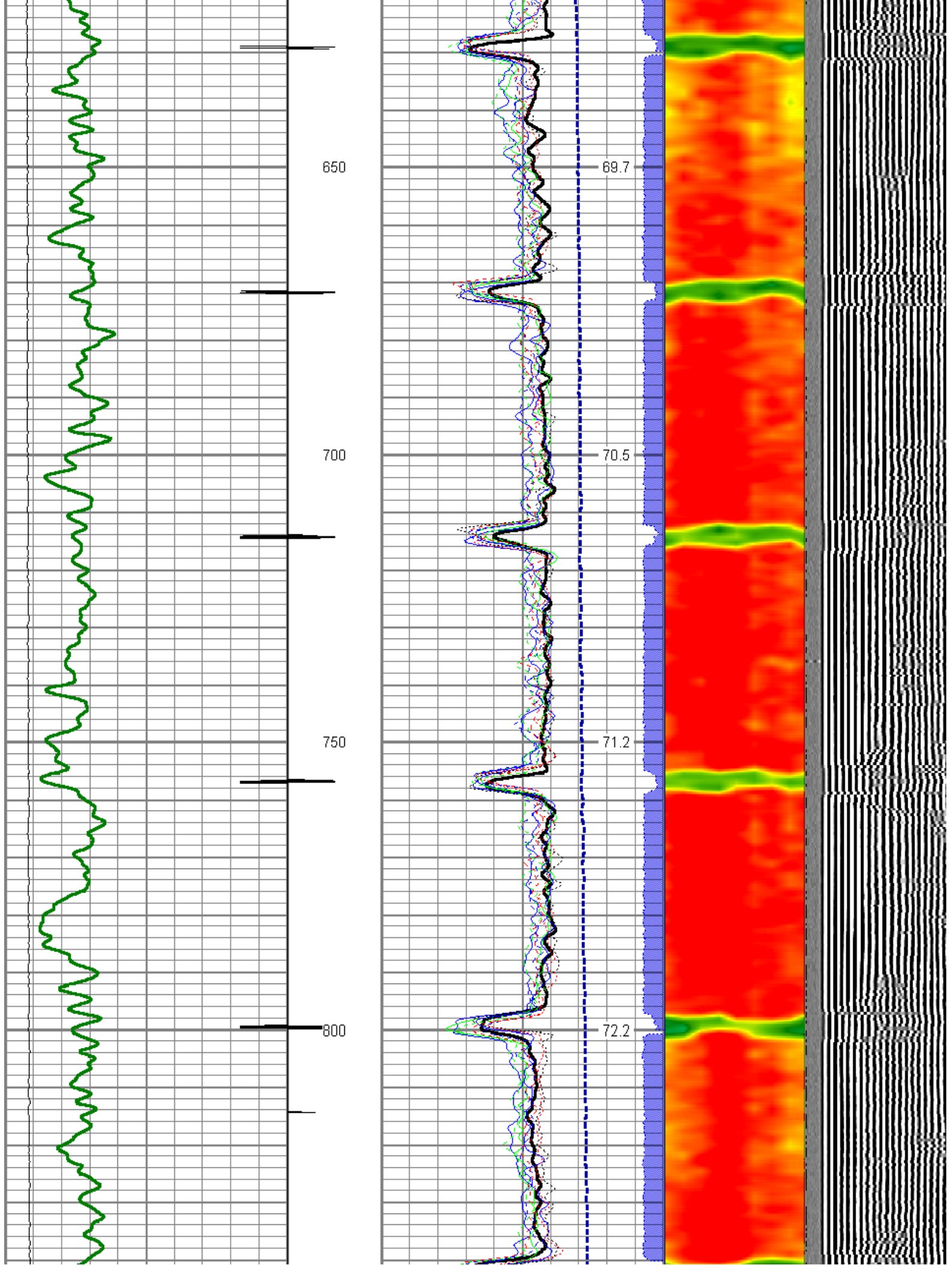
0	GR (GAPI)	200	0	Amplitude (mV)	100	1	SECTORS	8	Variable Density
0	LTEN (lb)	3000	0	temp (degF)	100	0		82	200 1200
		CCL	0	TT3FT (usec)	195				
				TEMP (degF)					

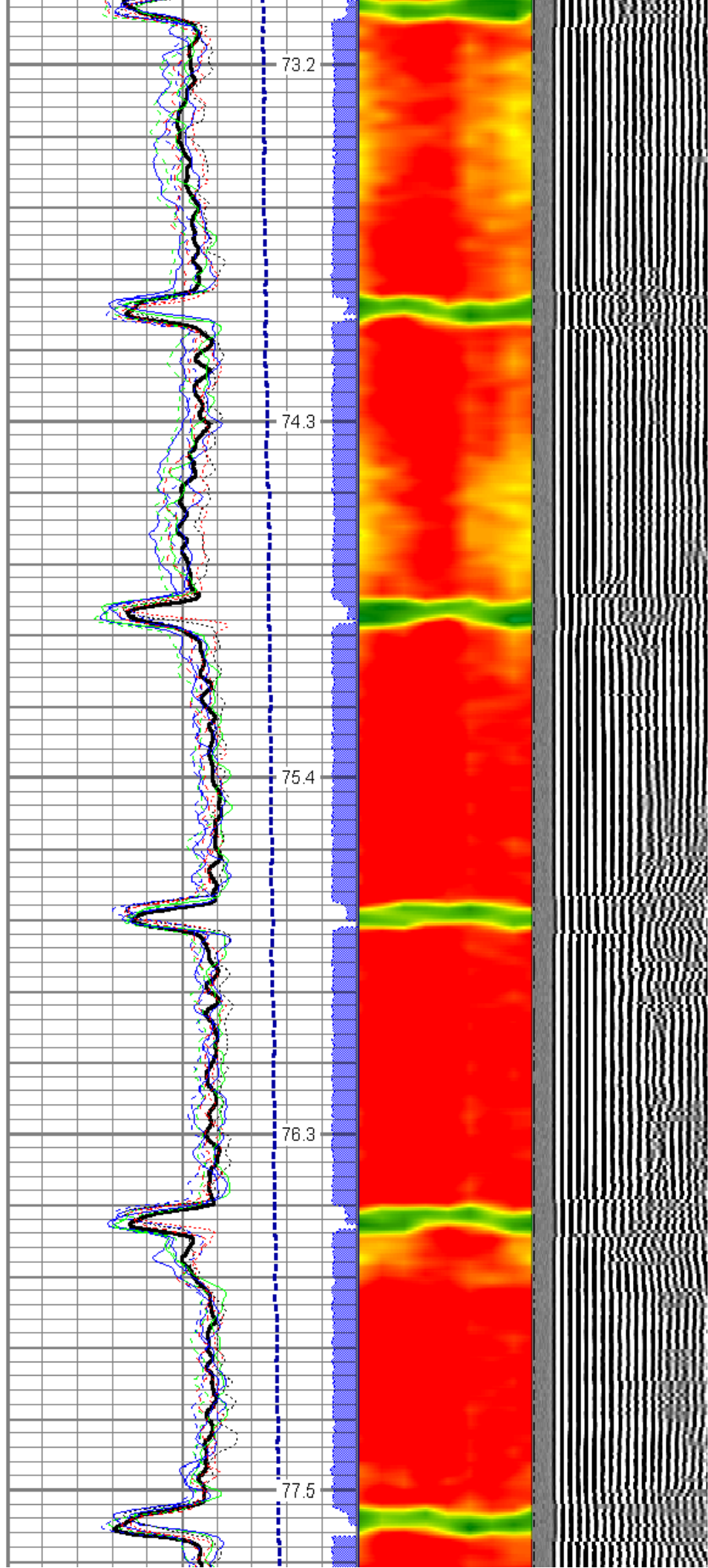
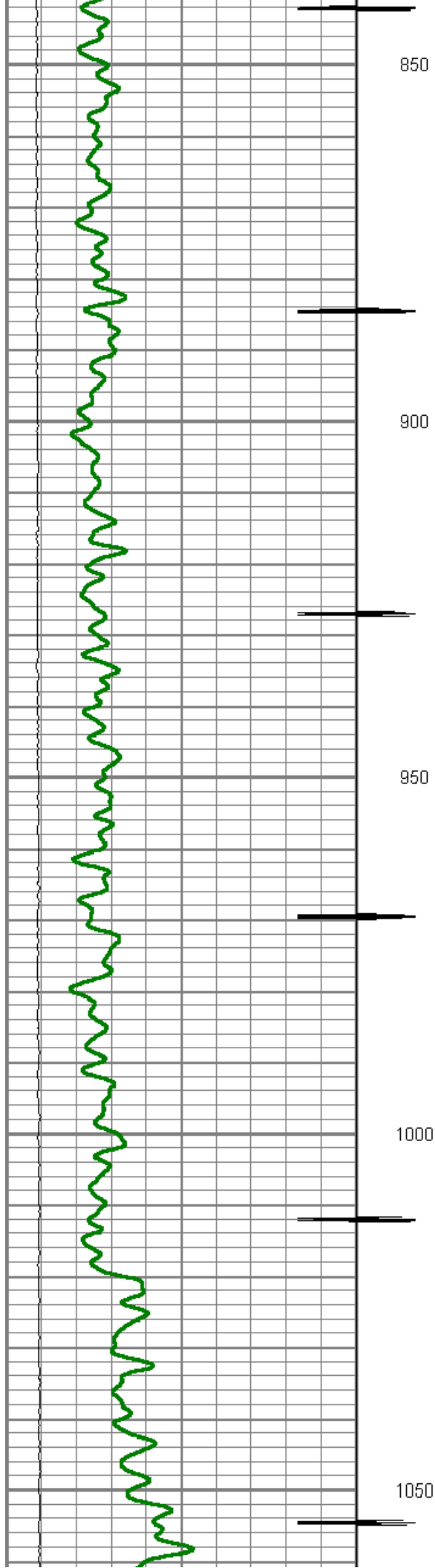
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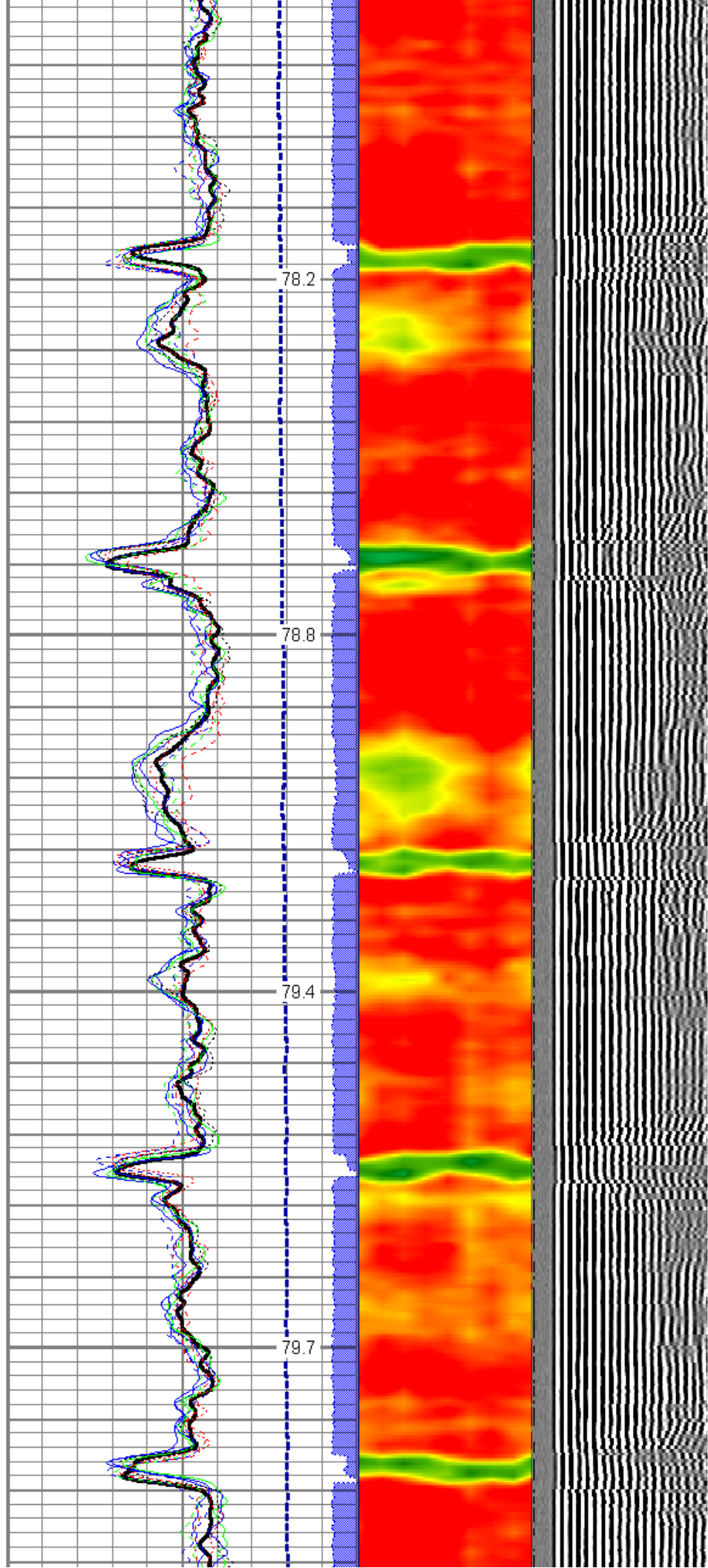
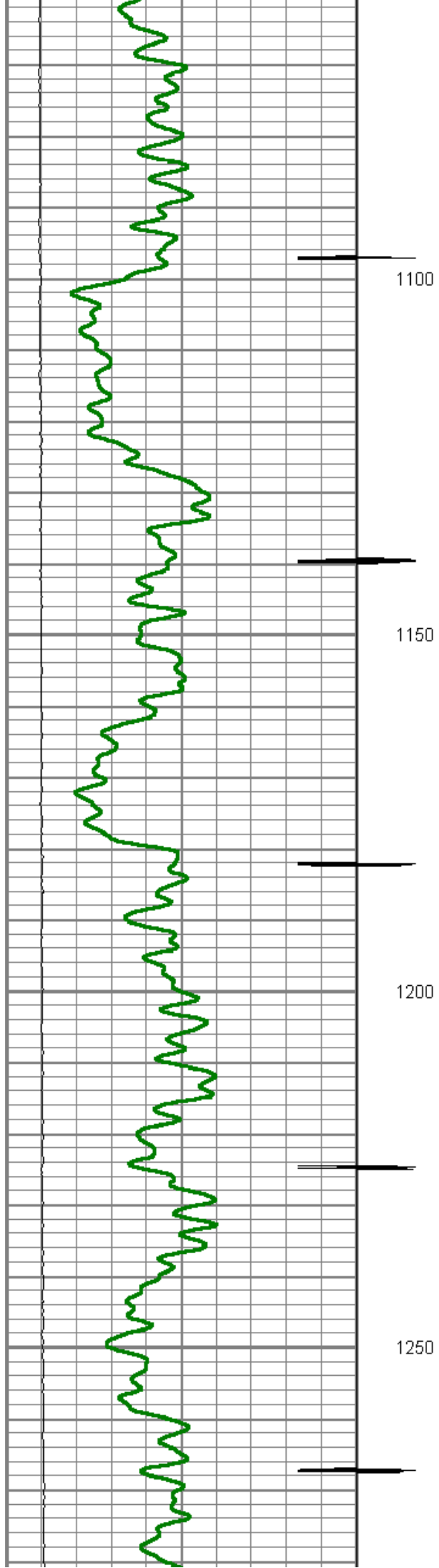


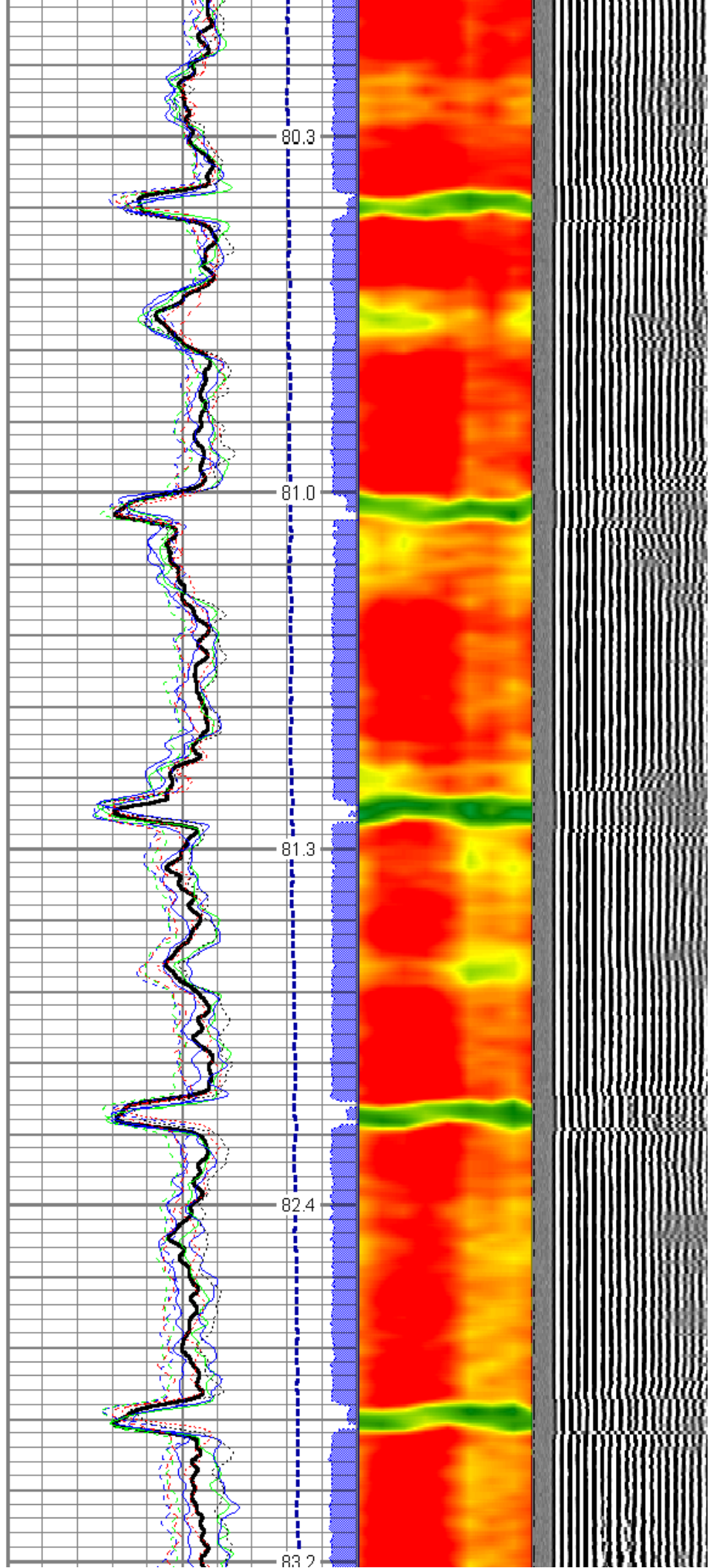
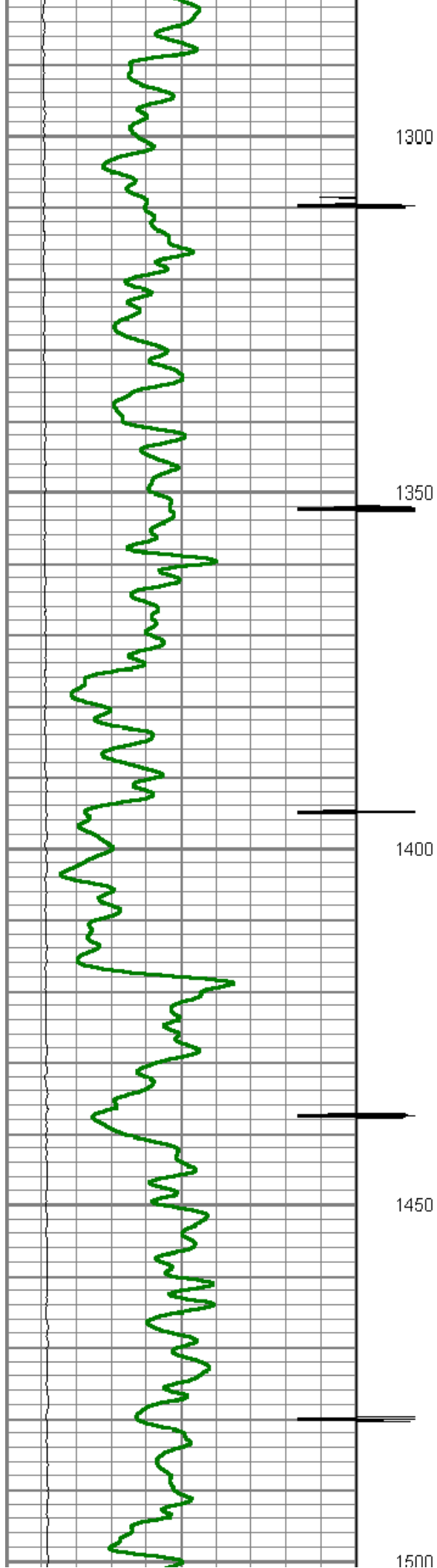


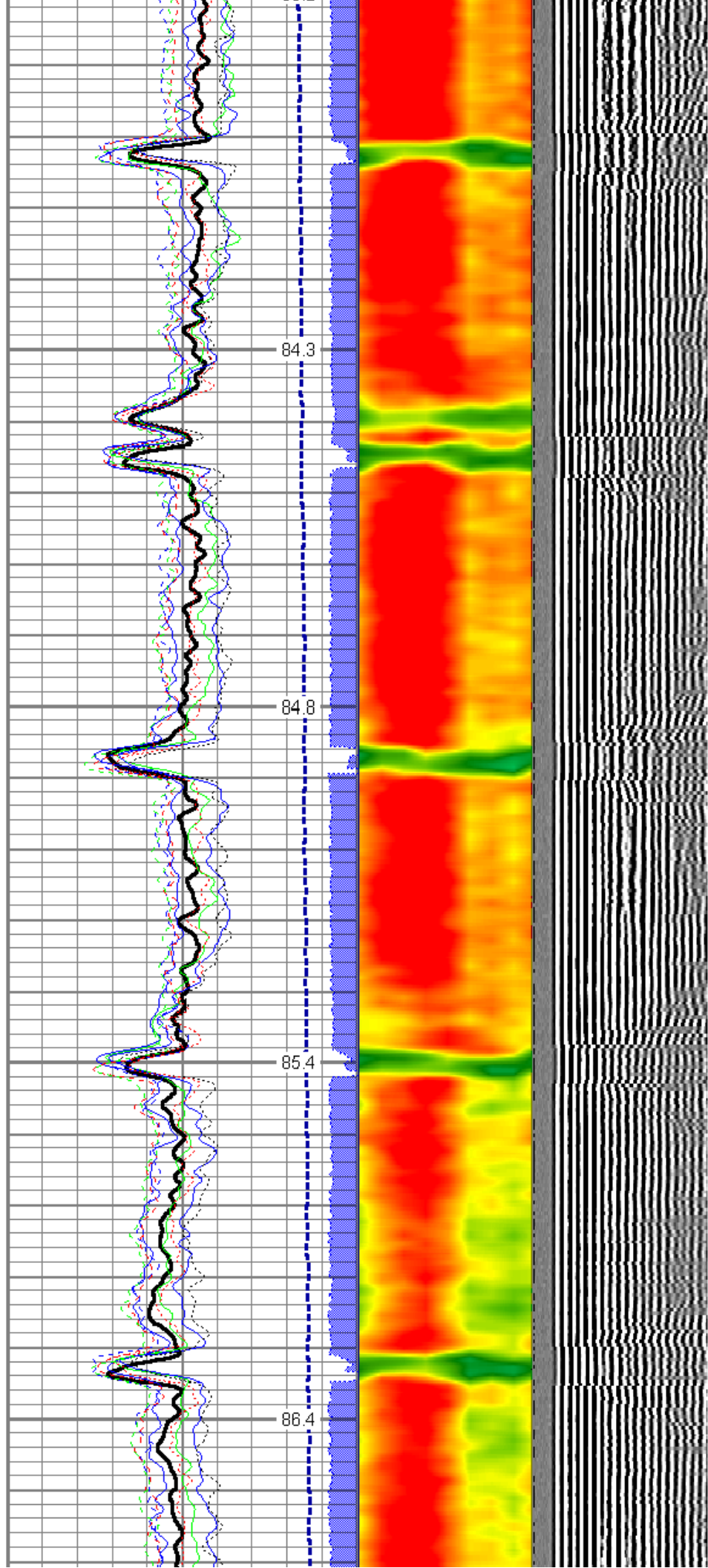
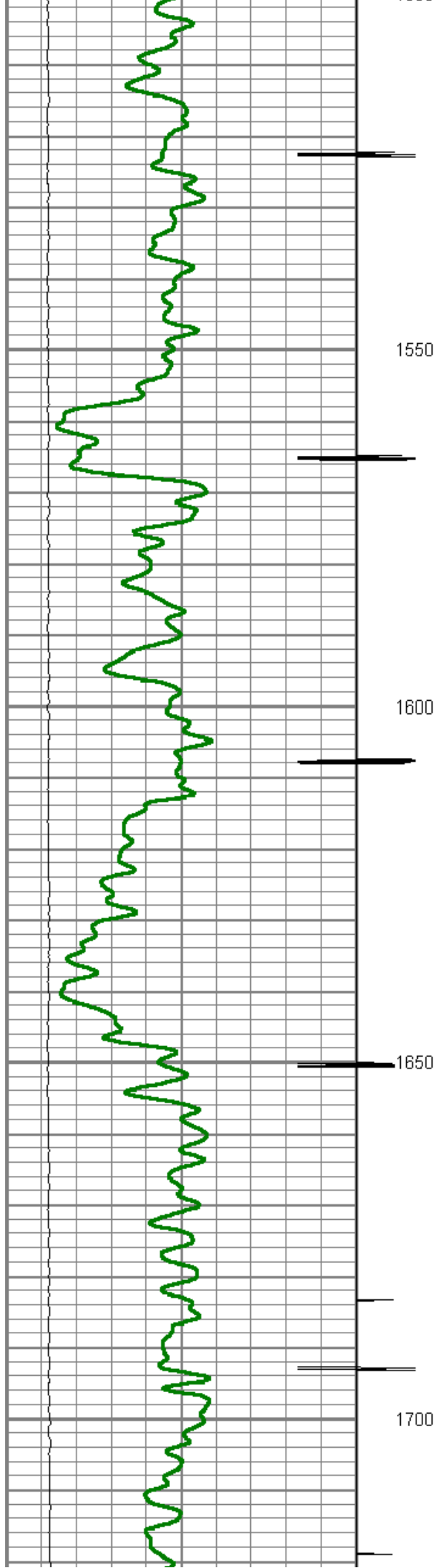


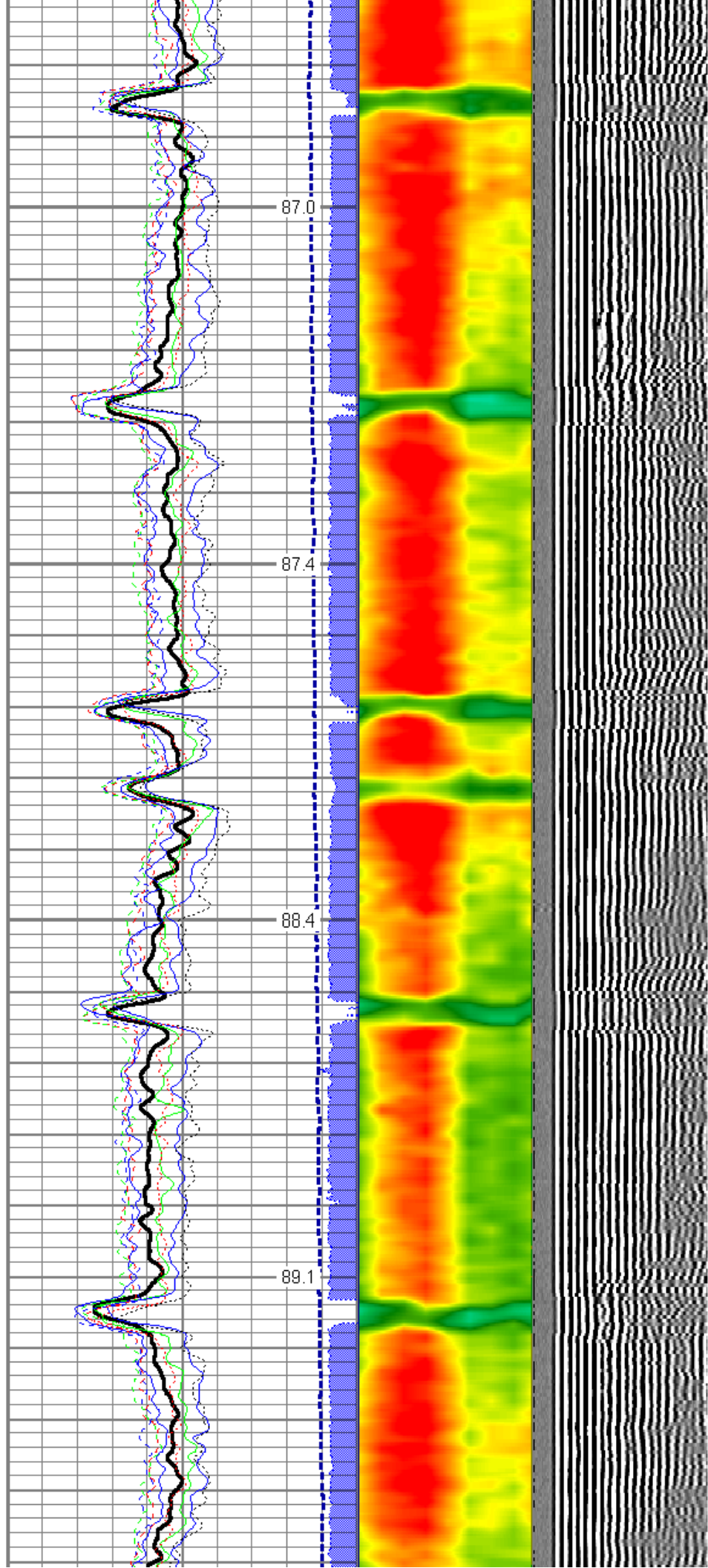
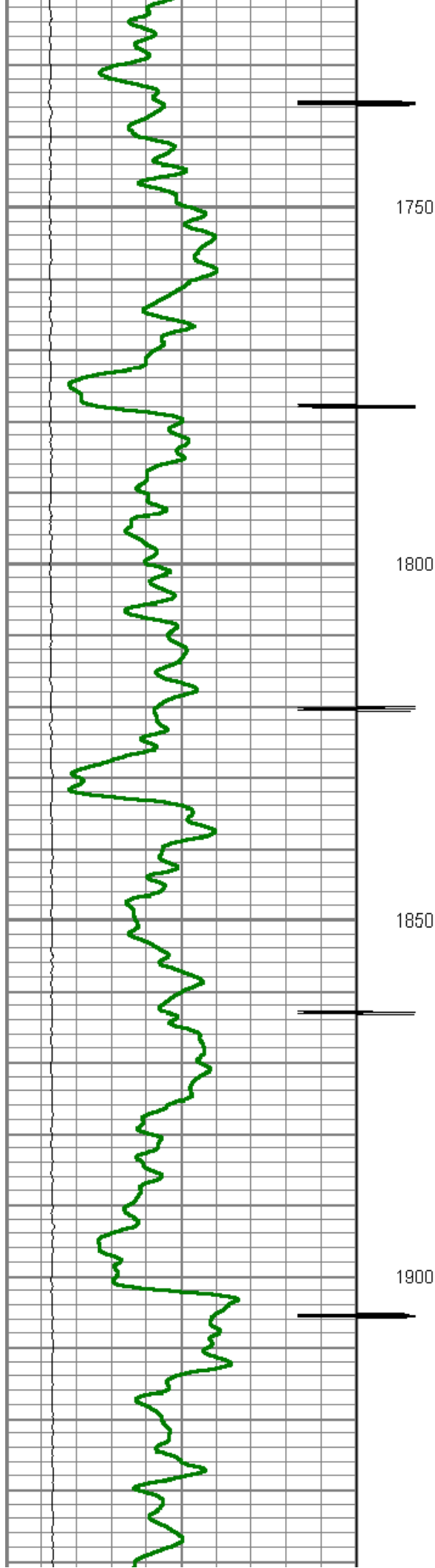


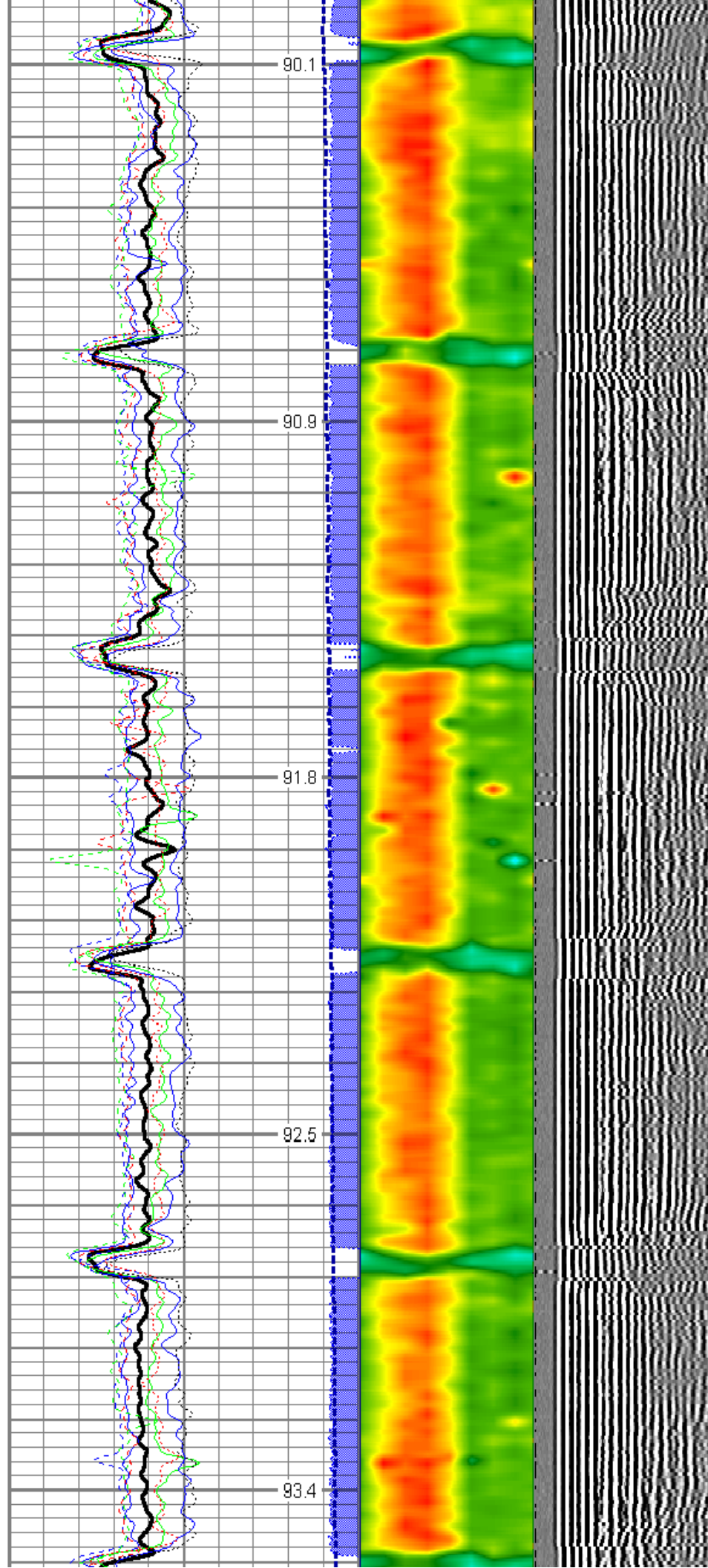
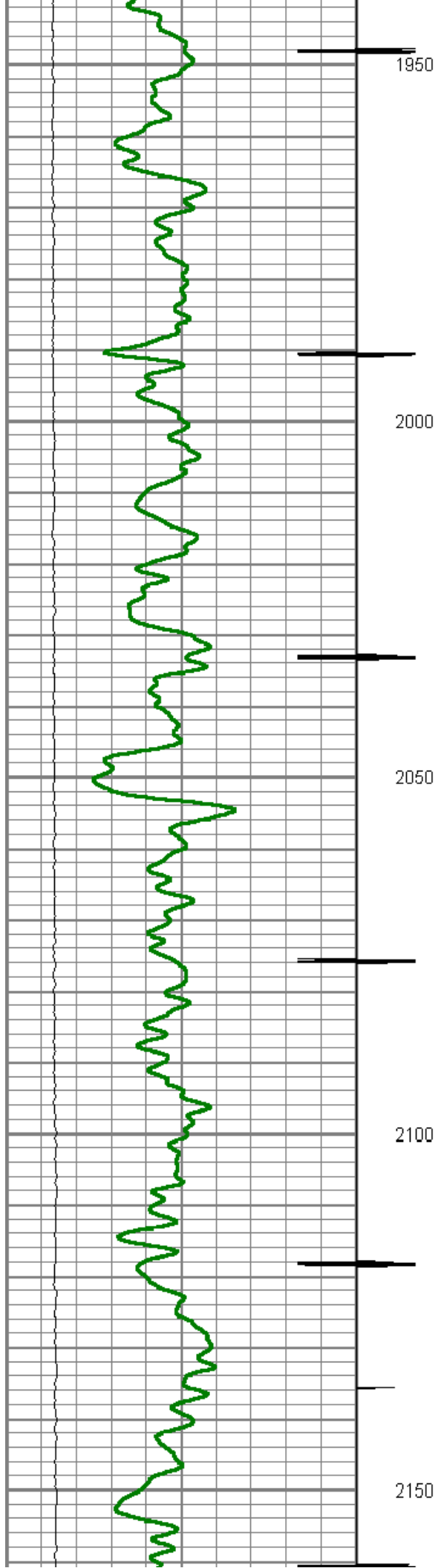


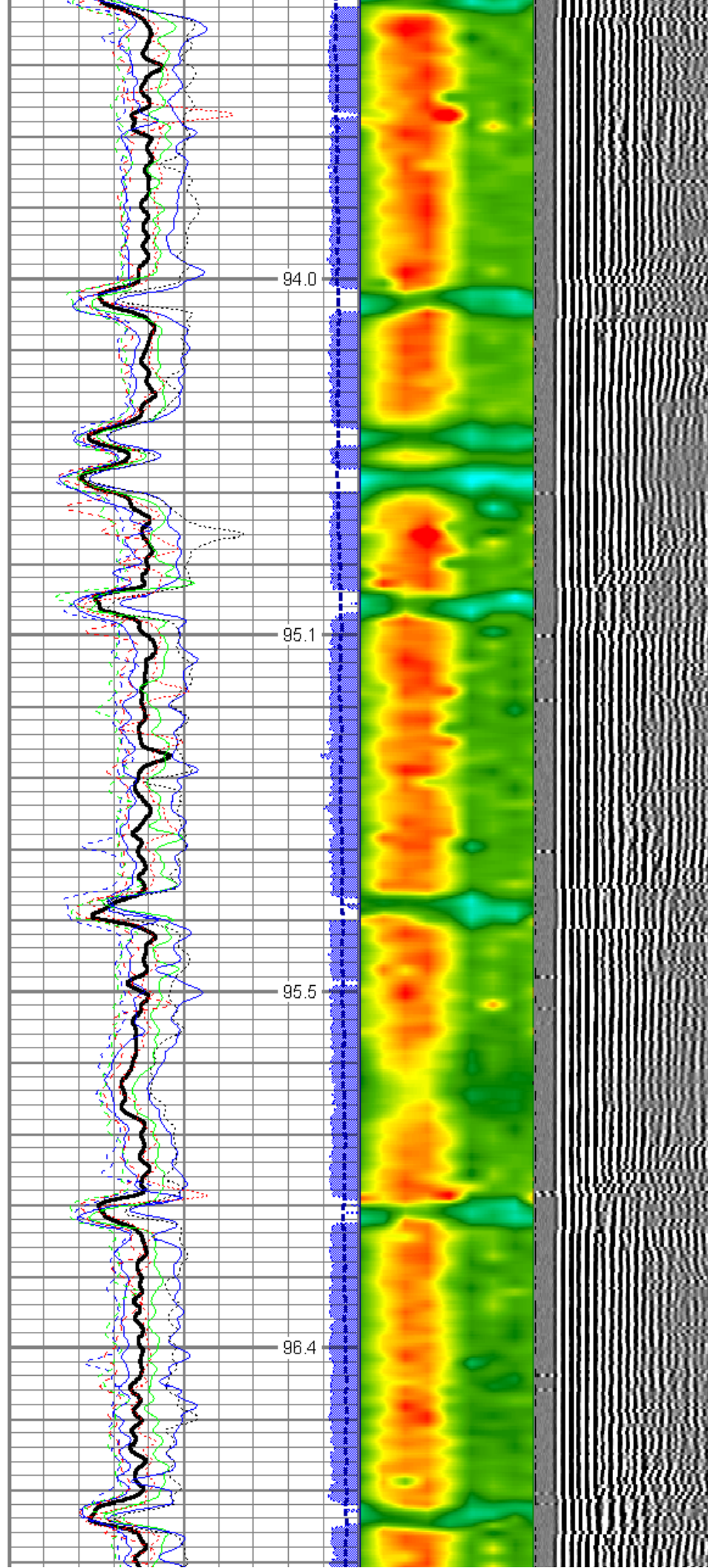
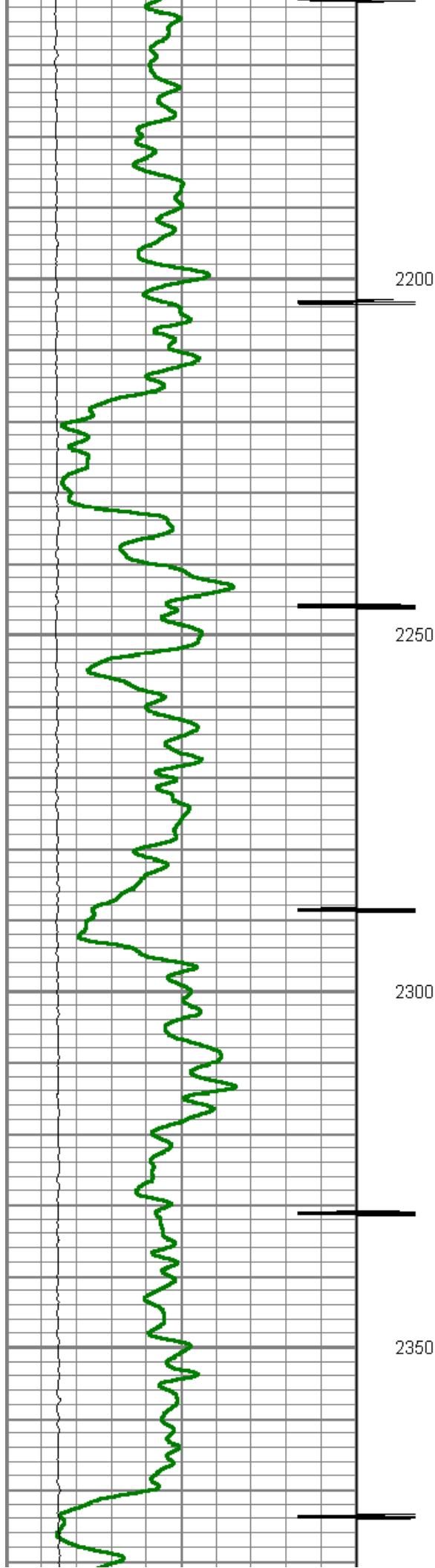


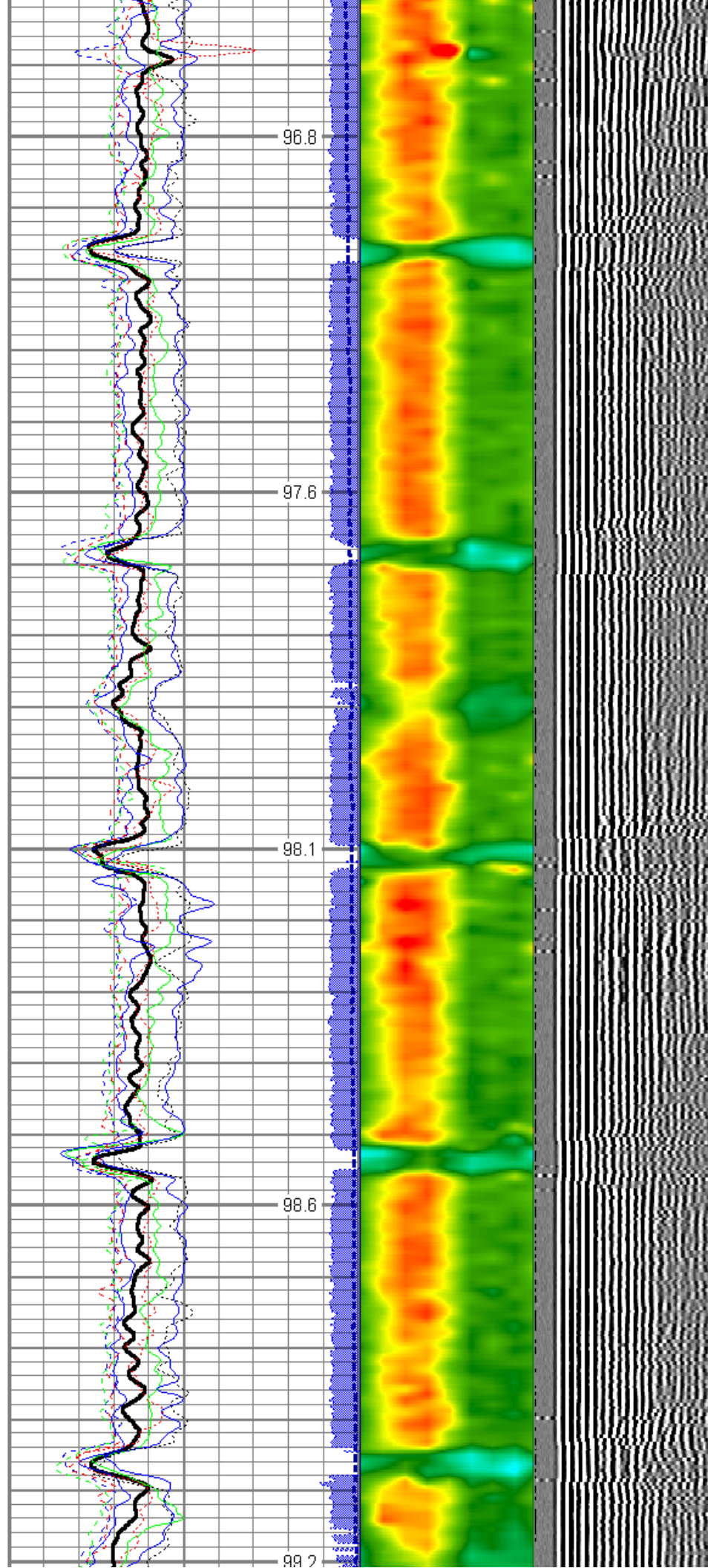
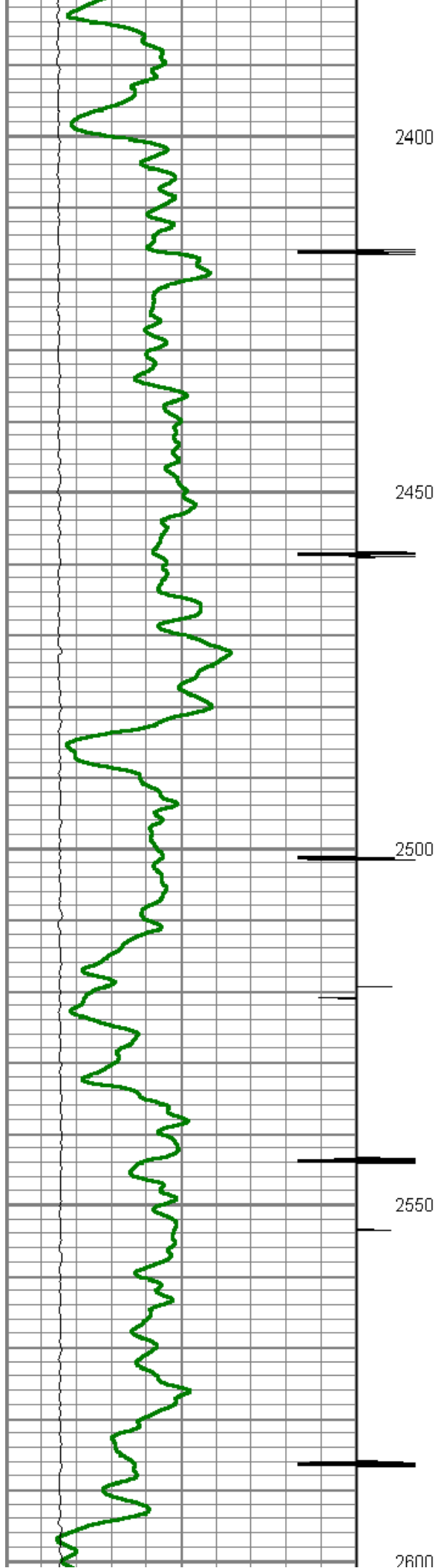


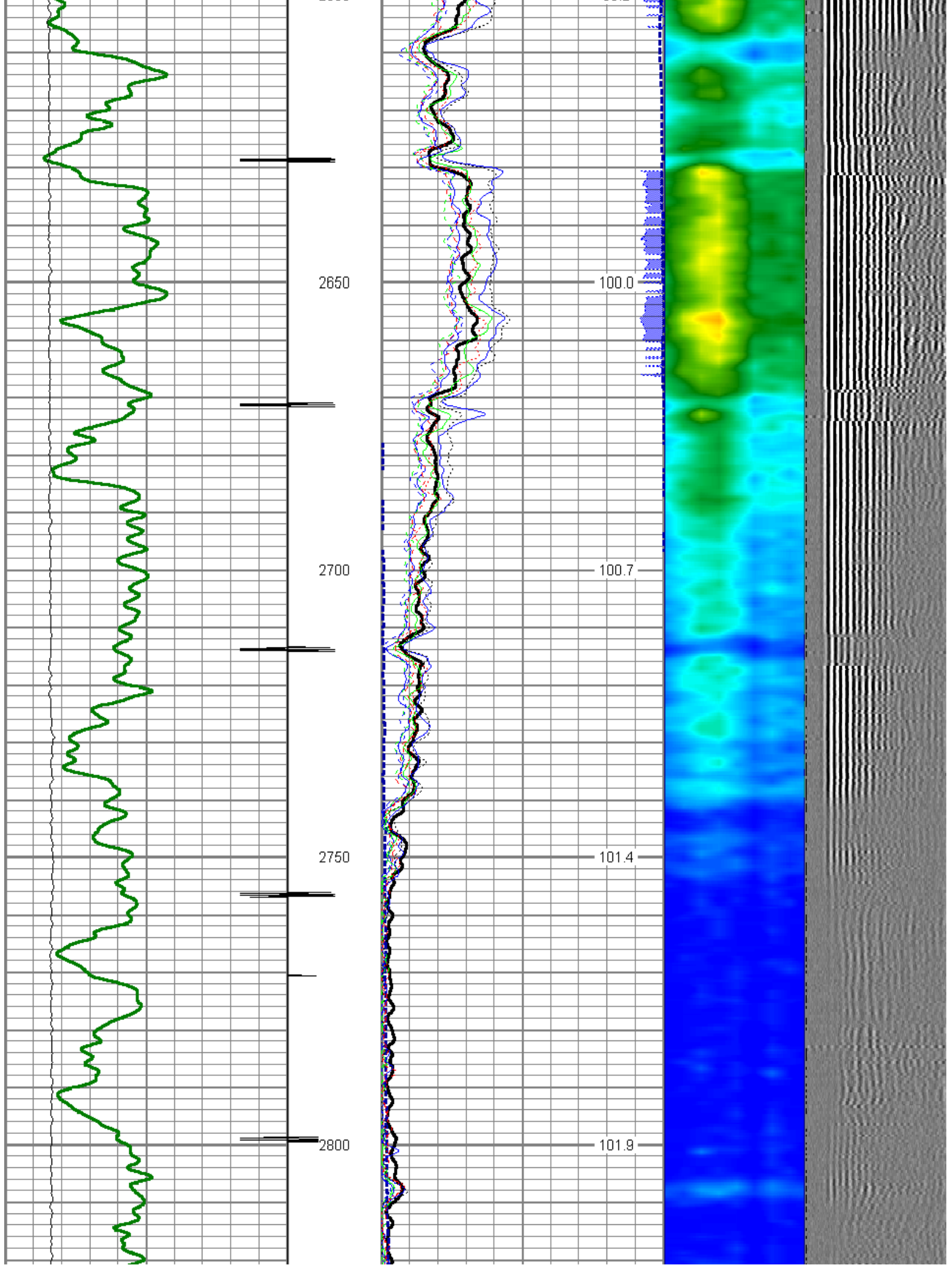


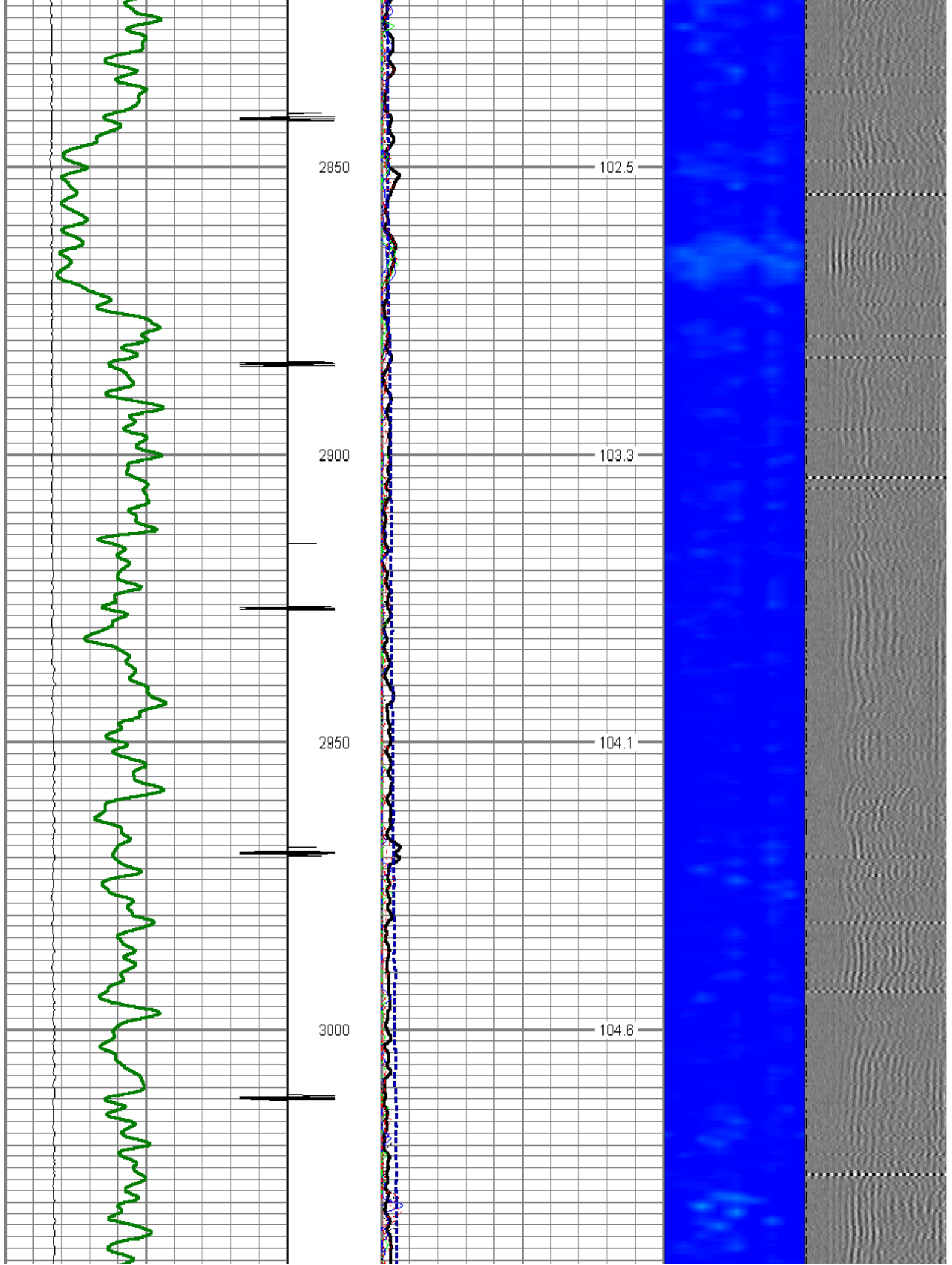


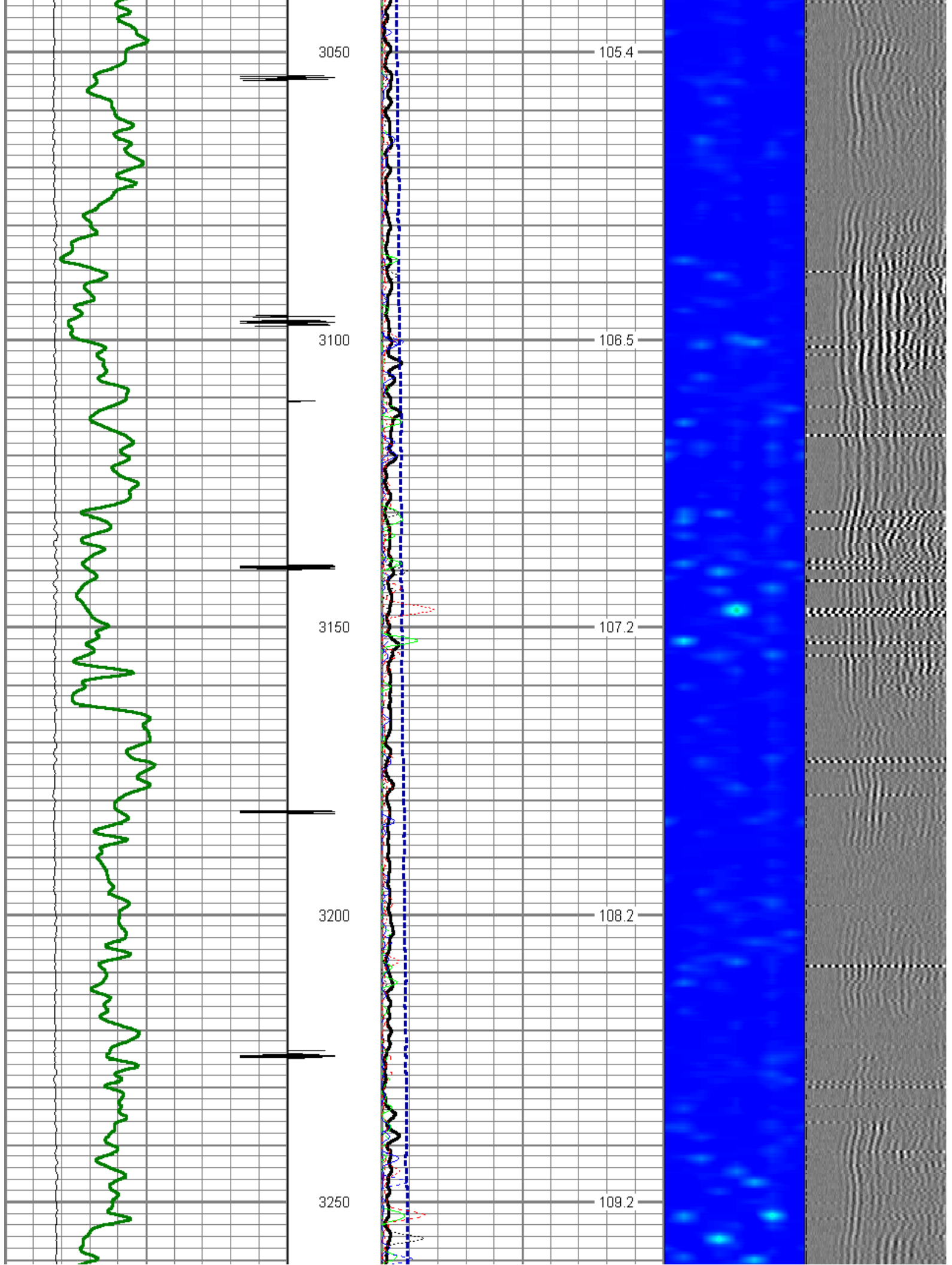


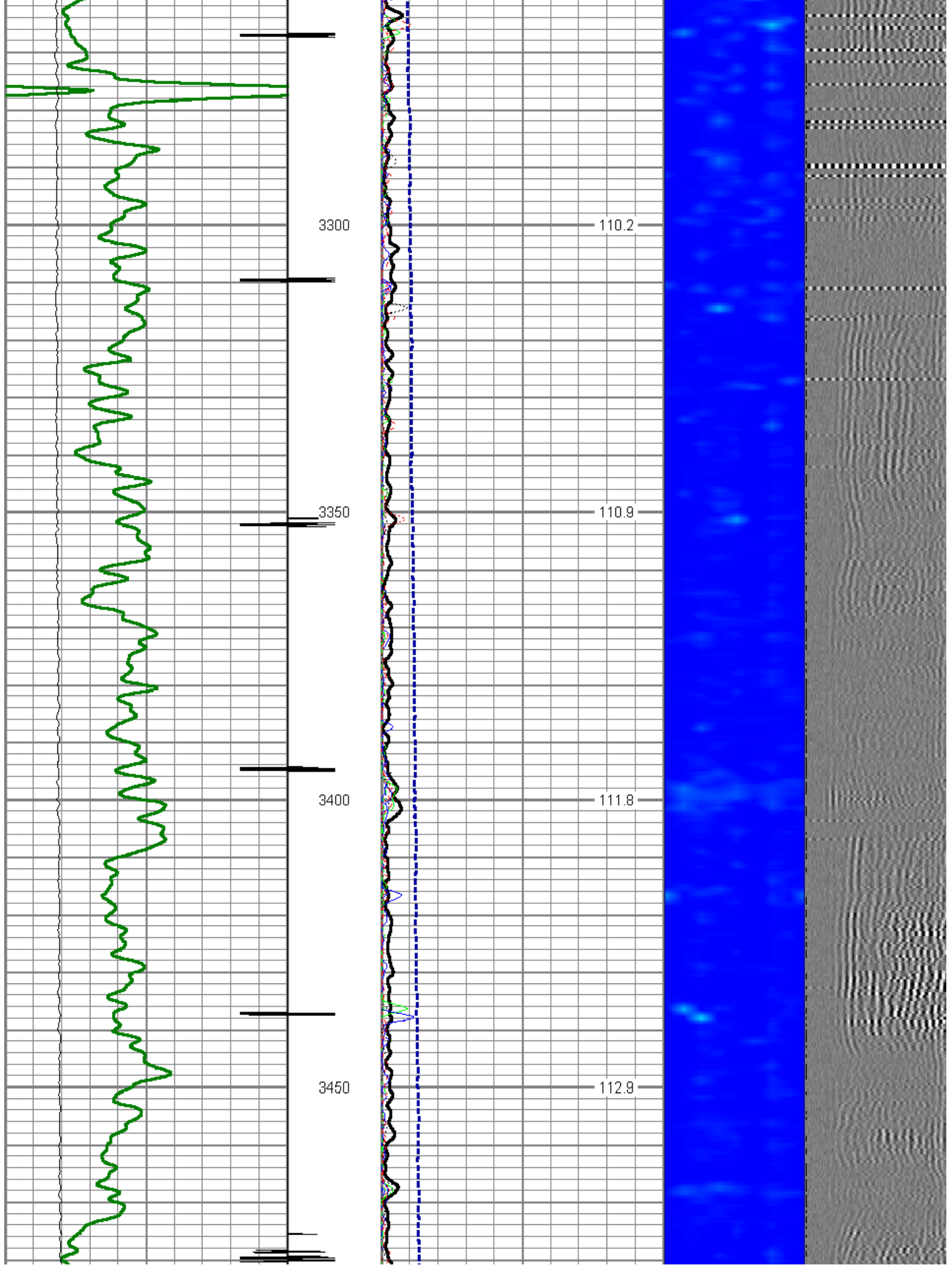


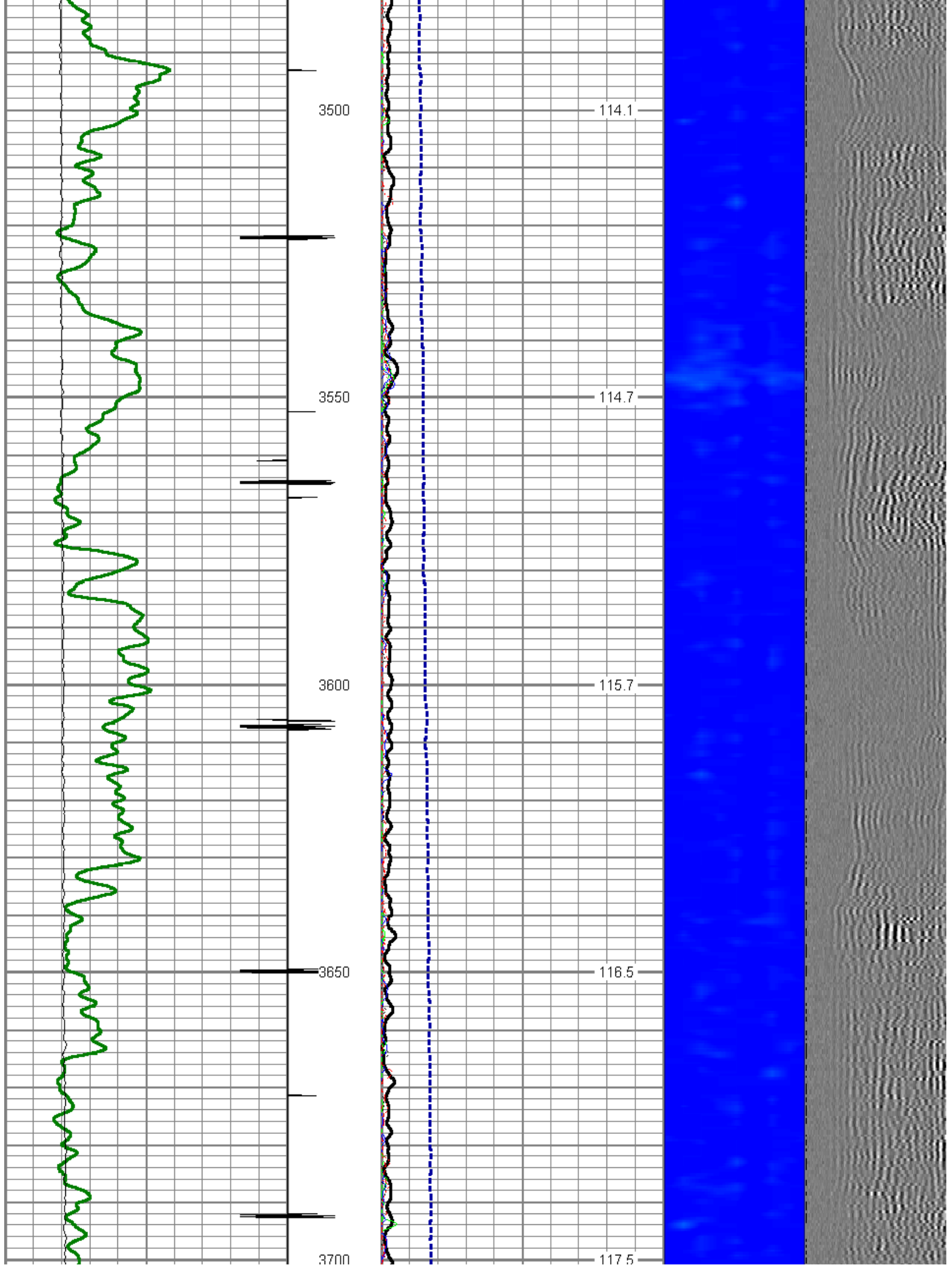


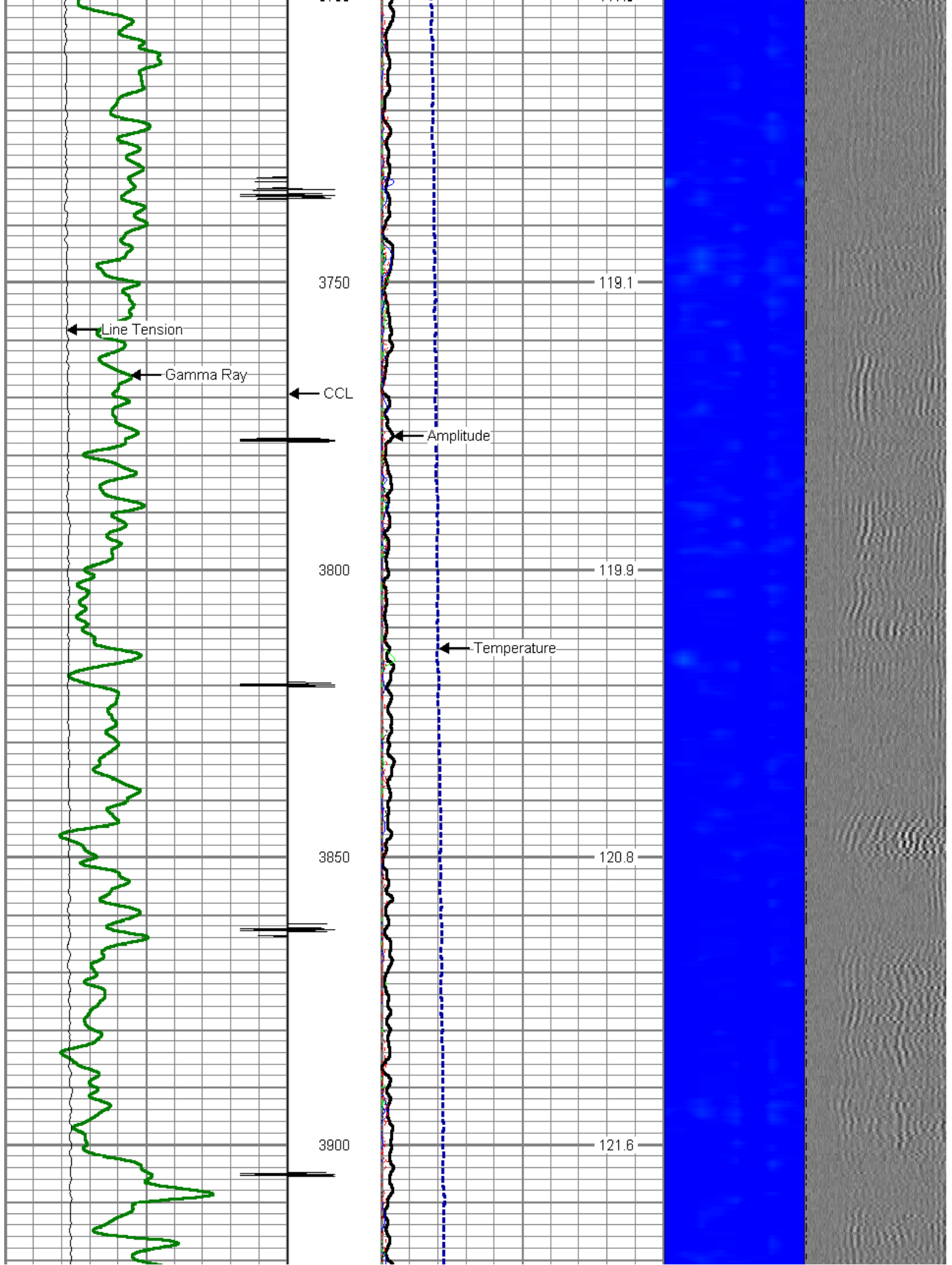


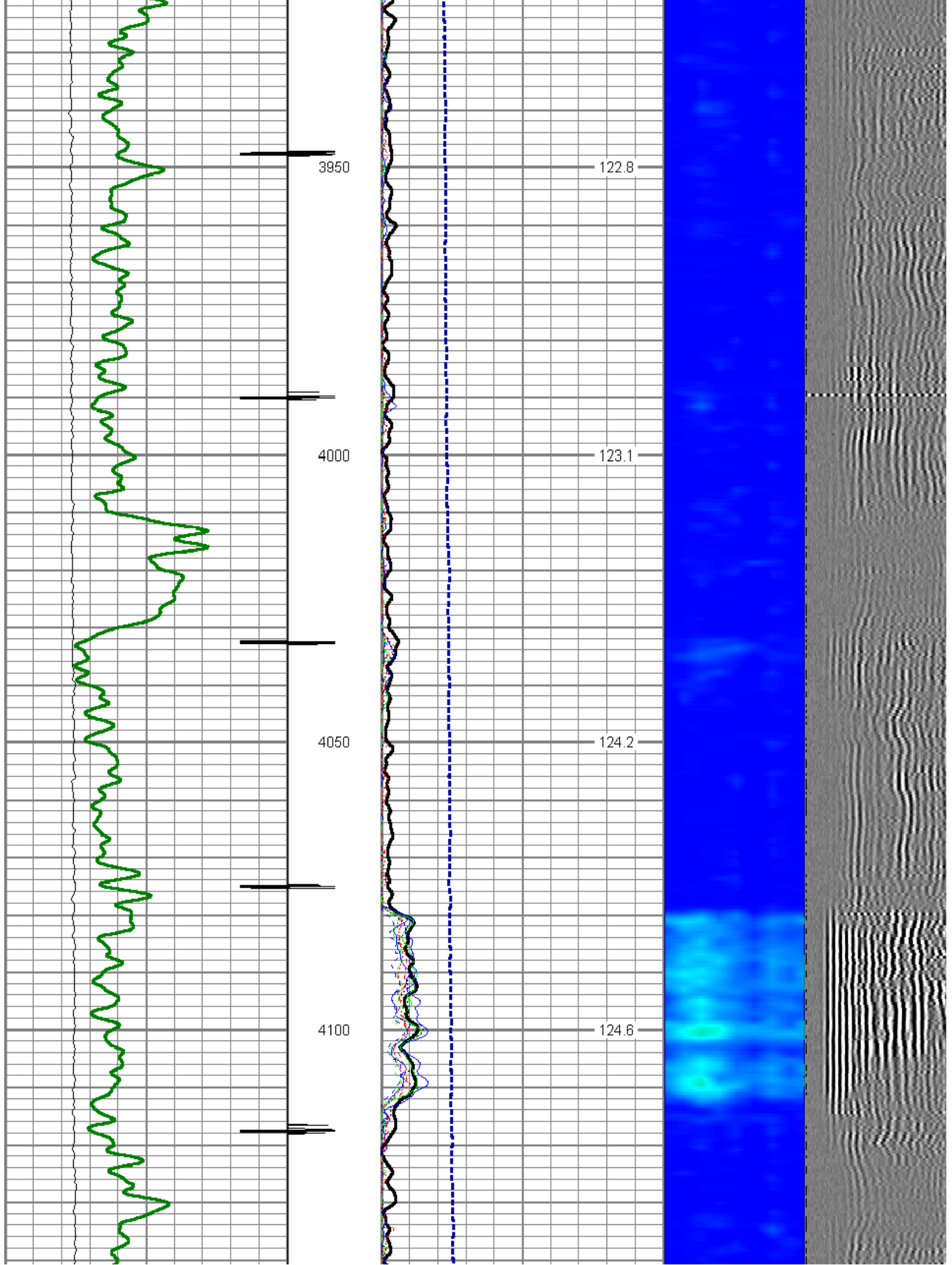


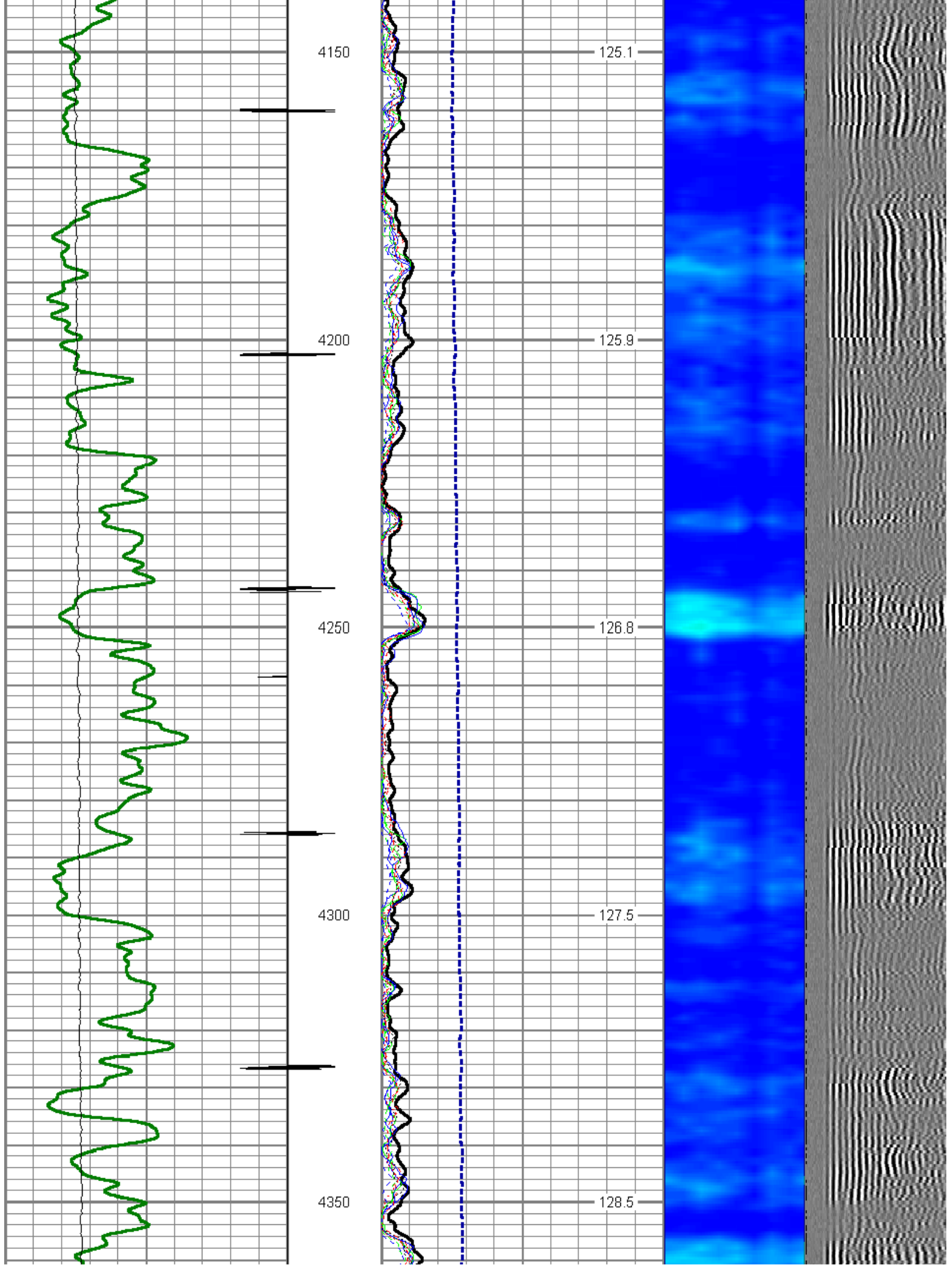


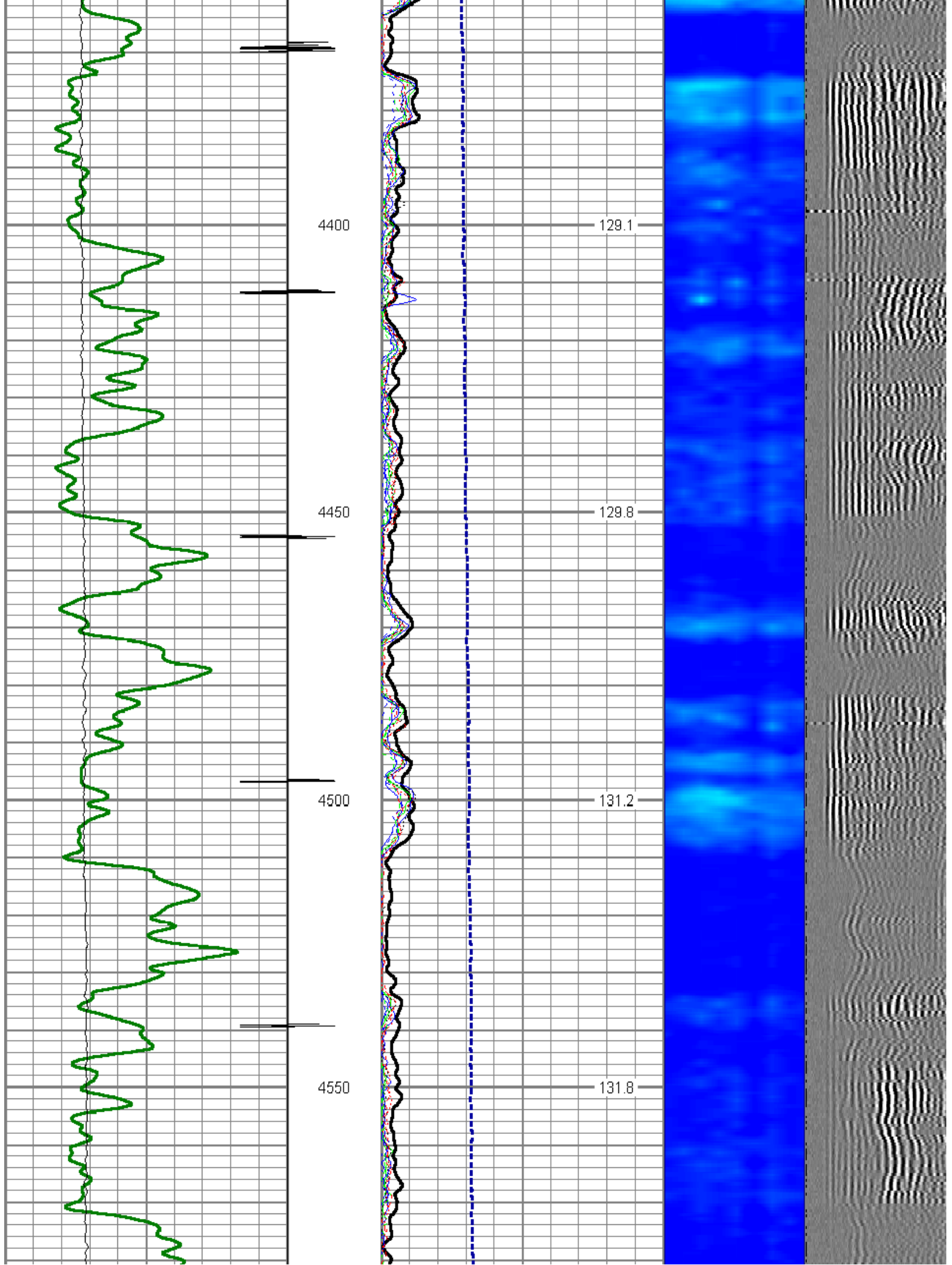


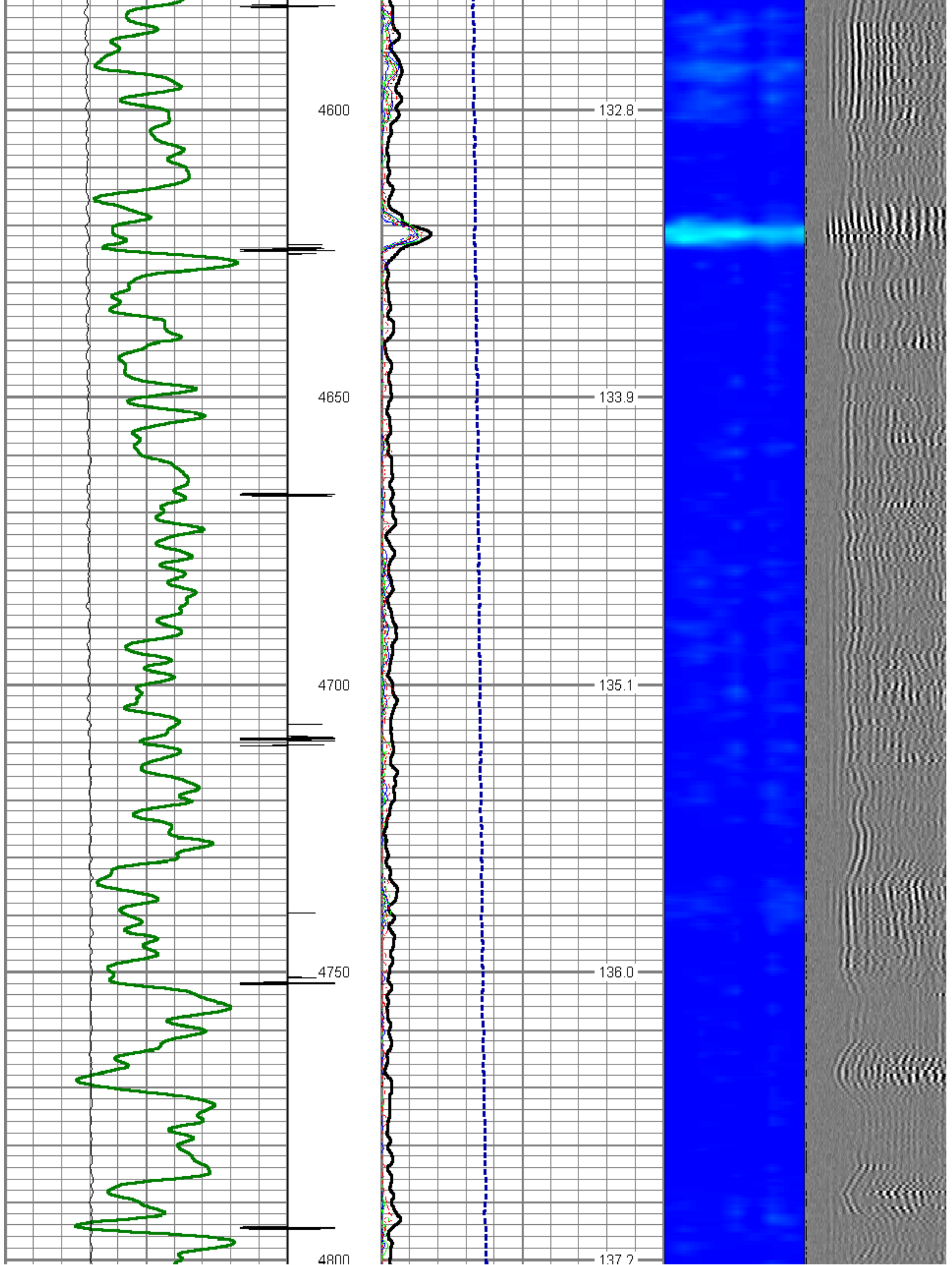


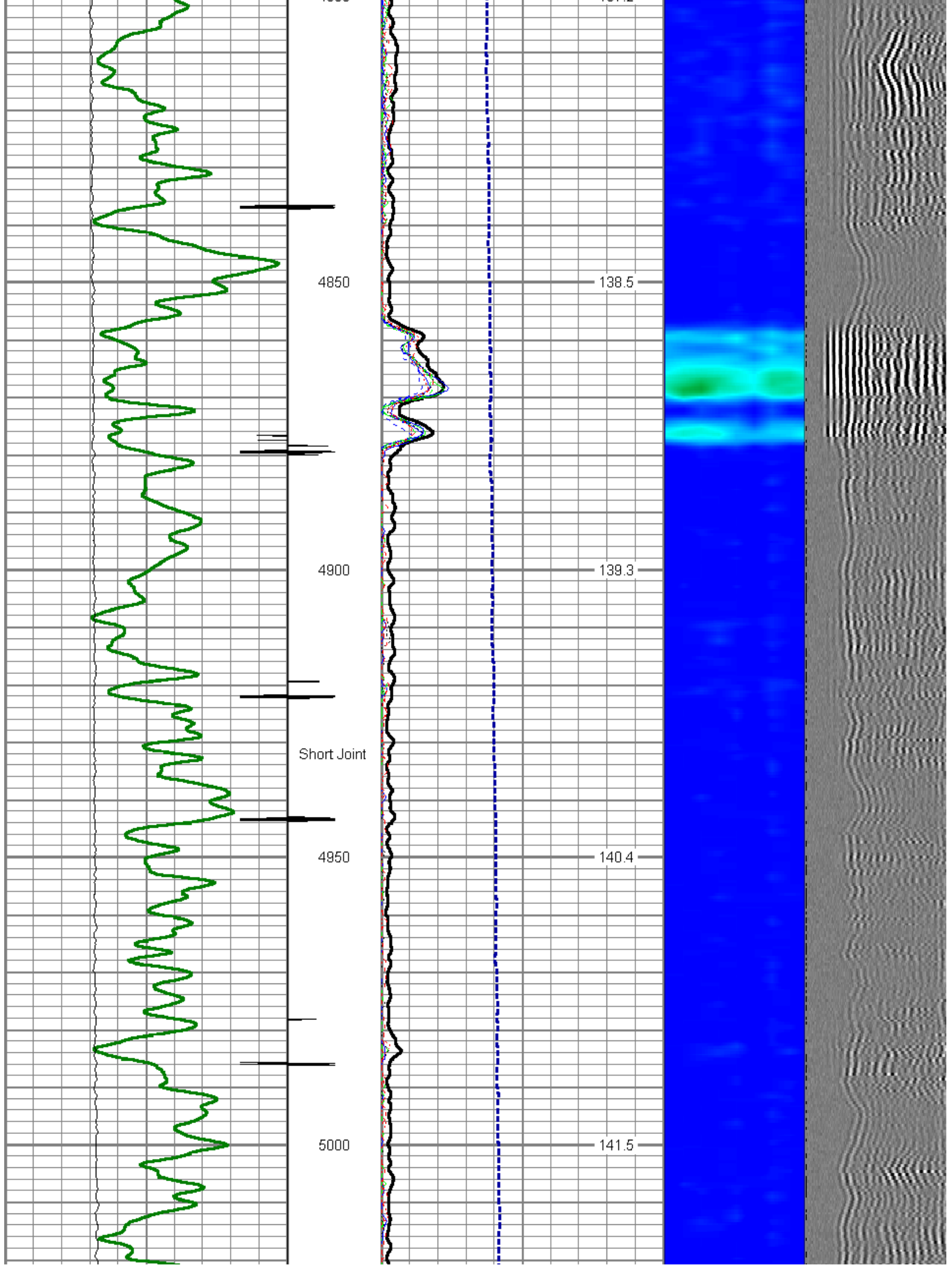


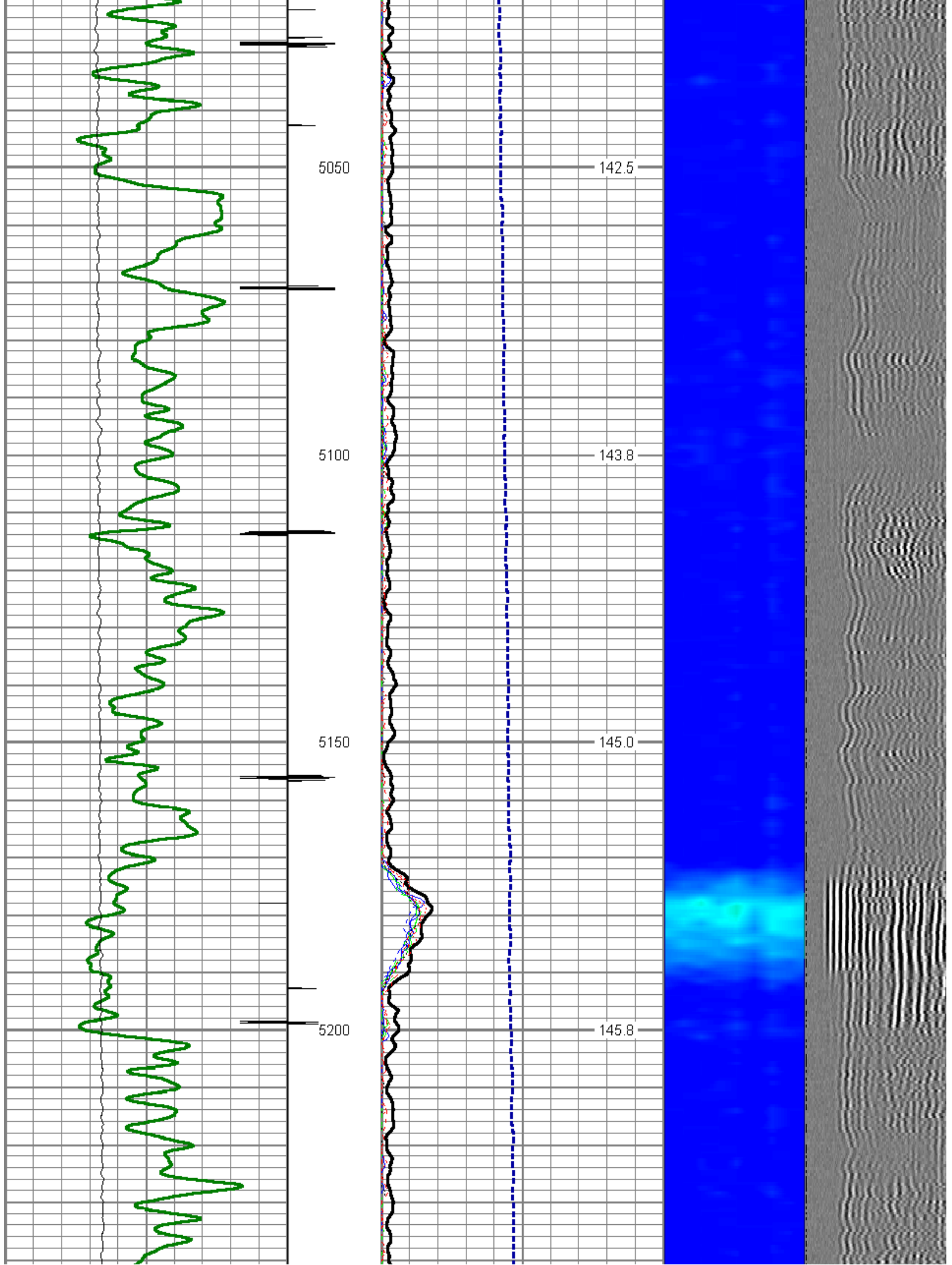


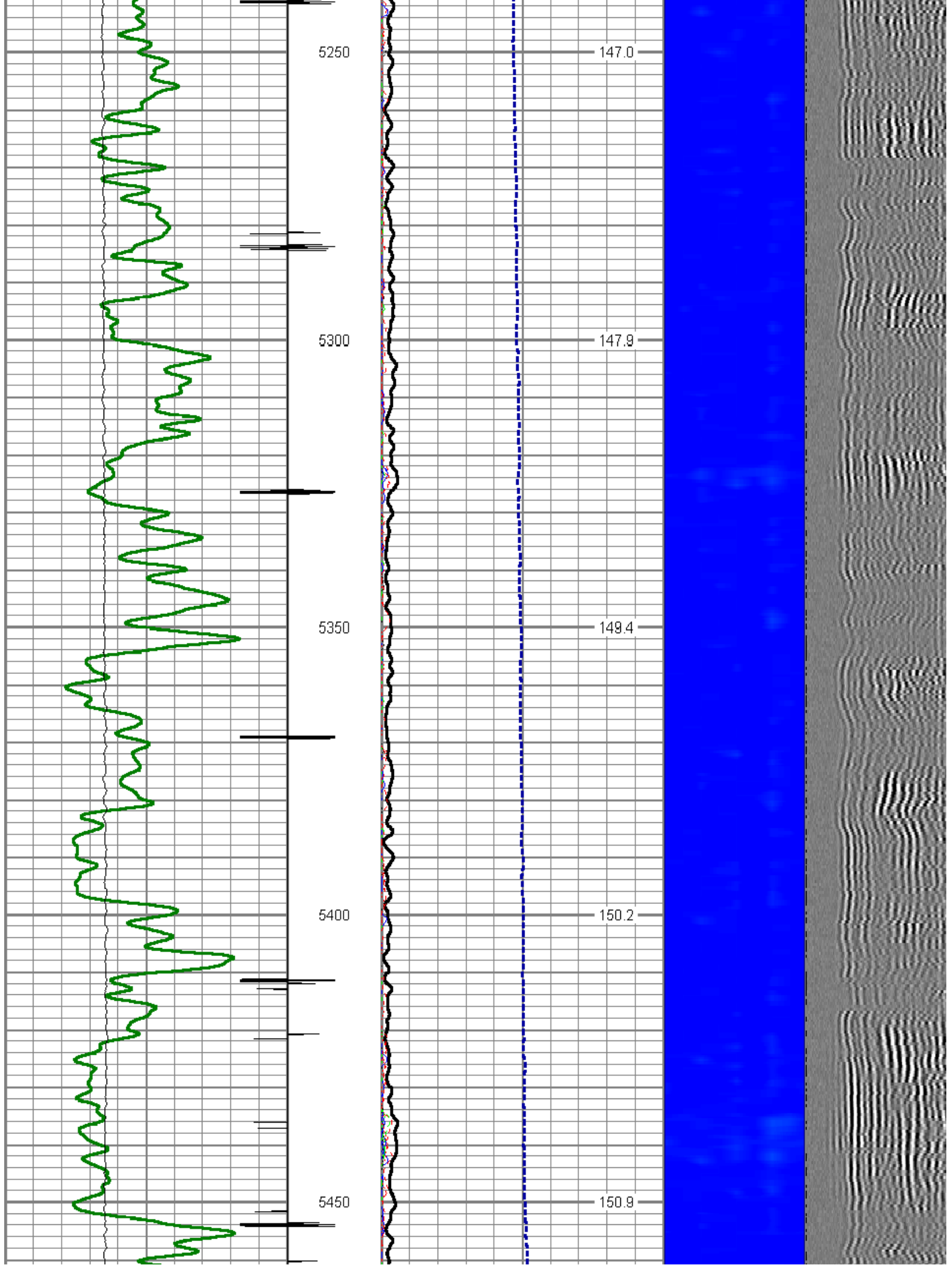


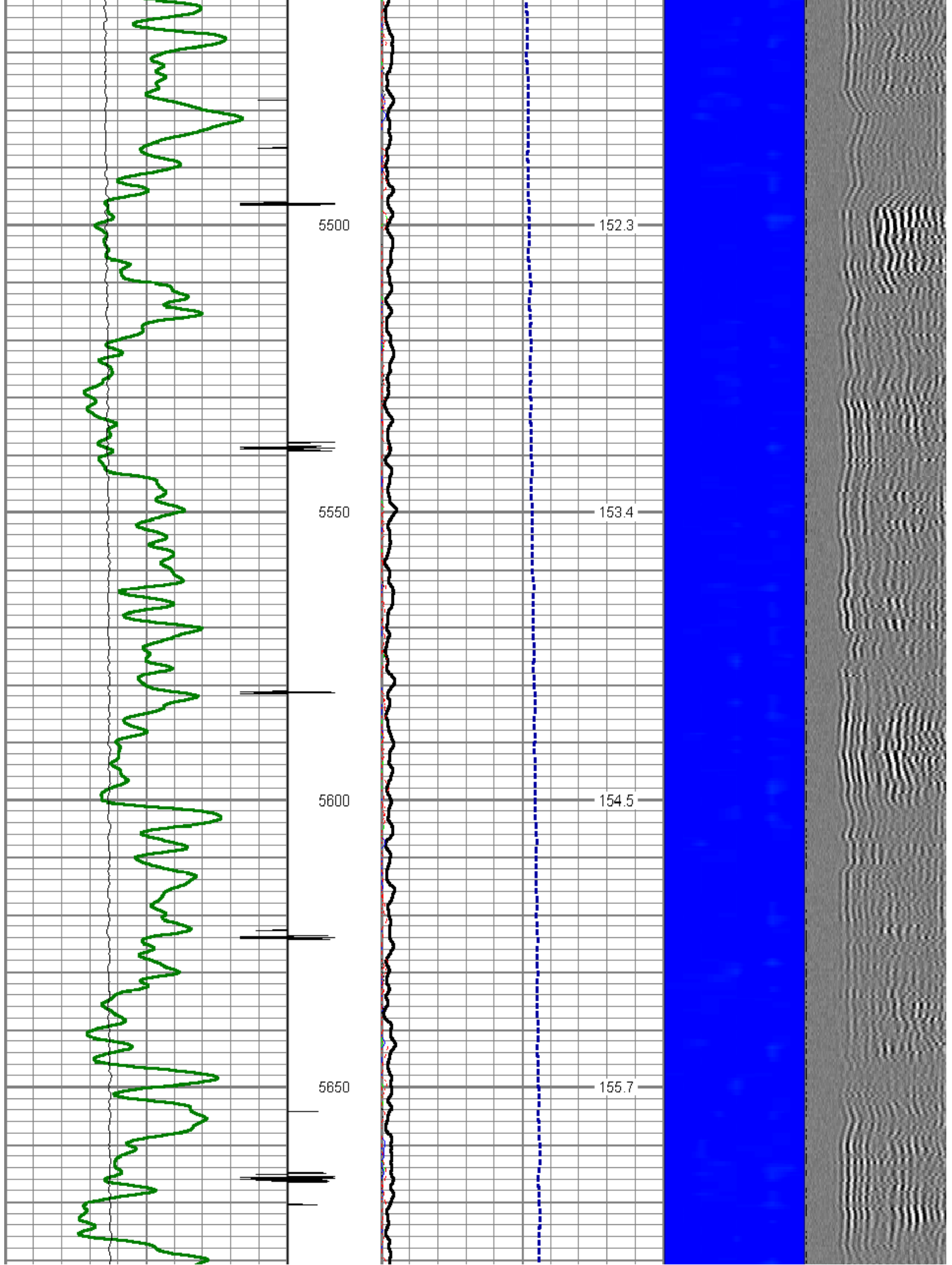


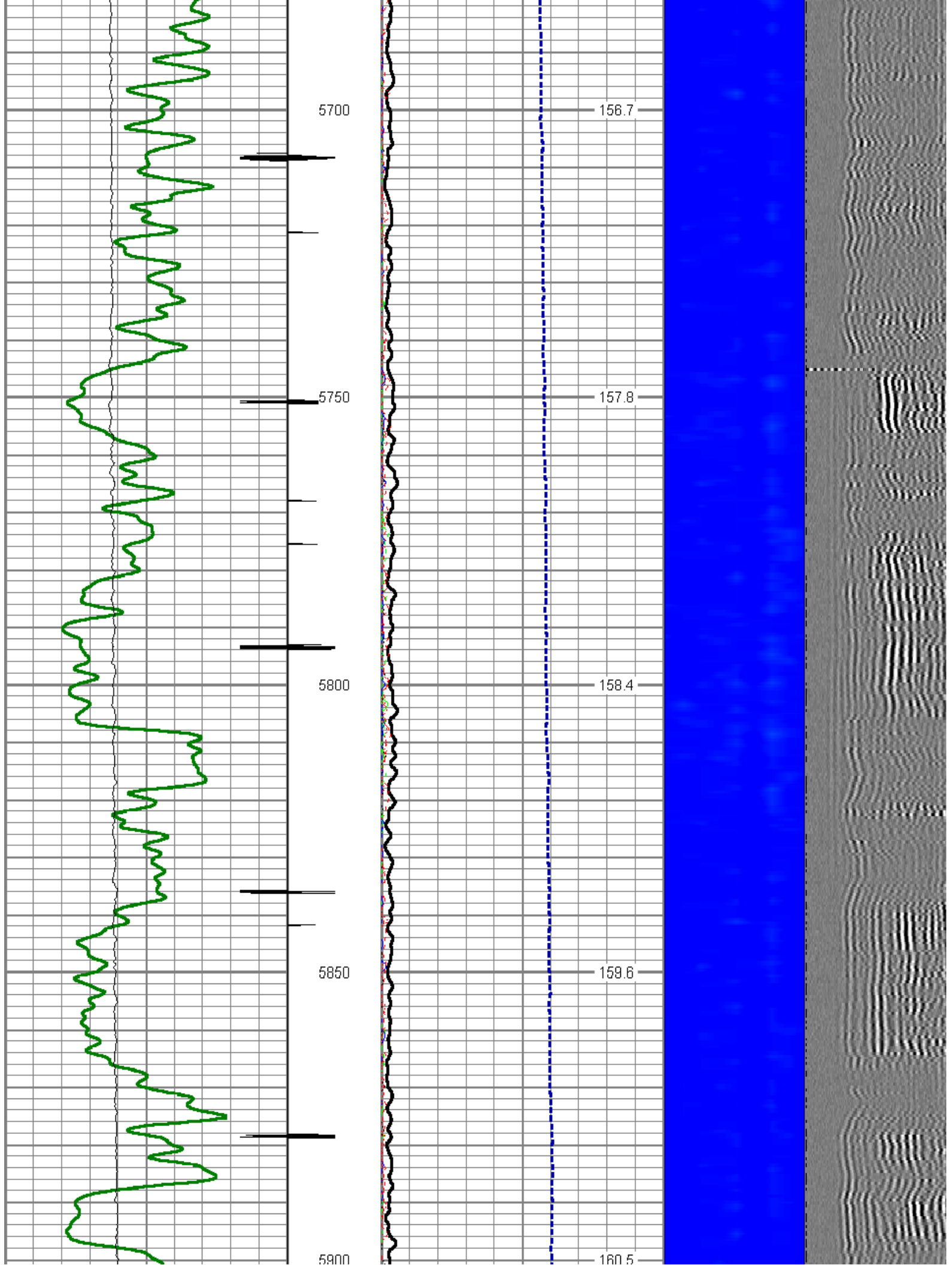


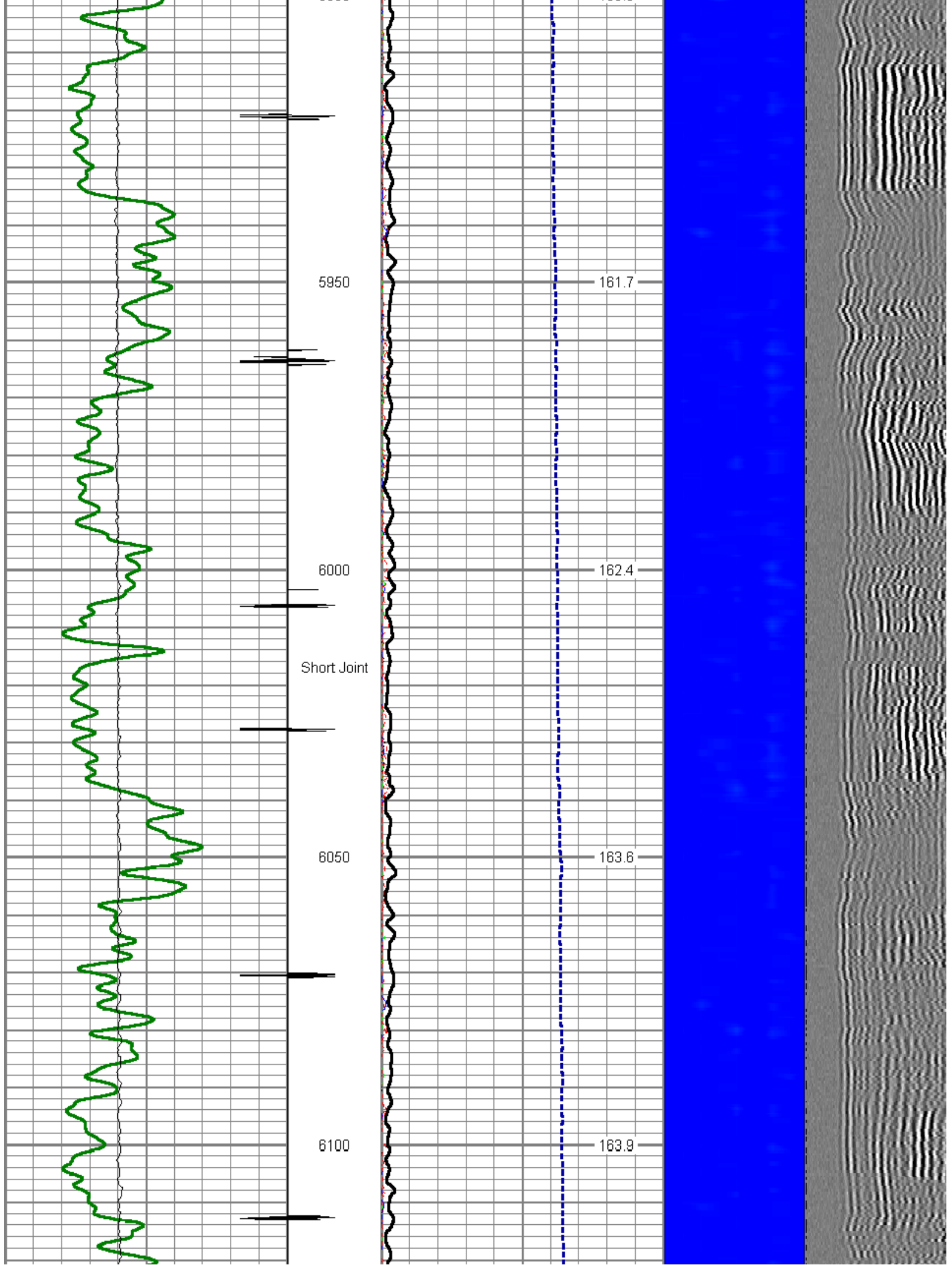


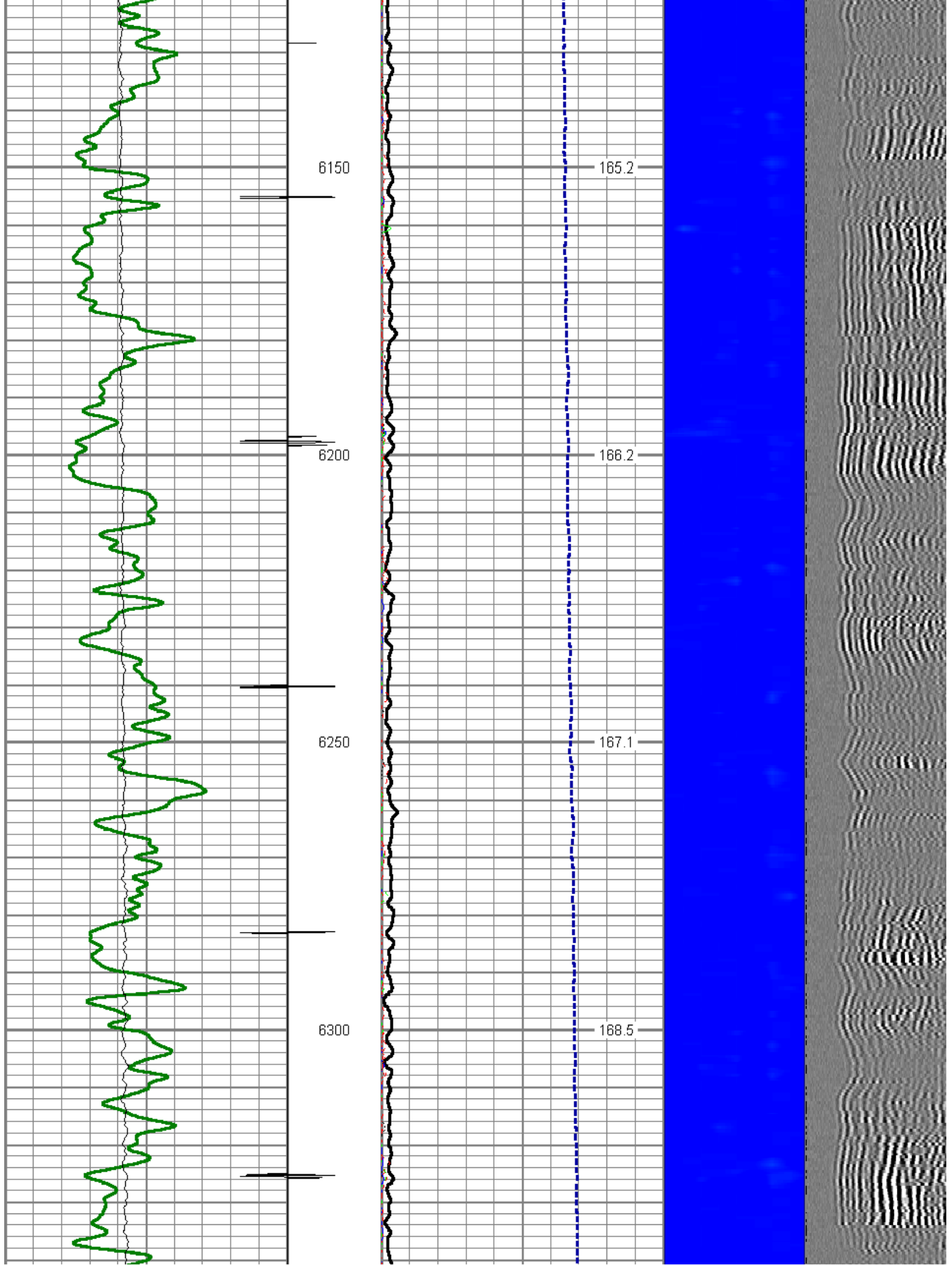


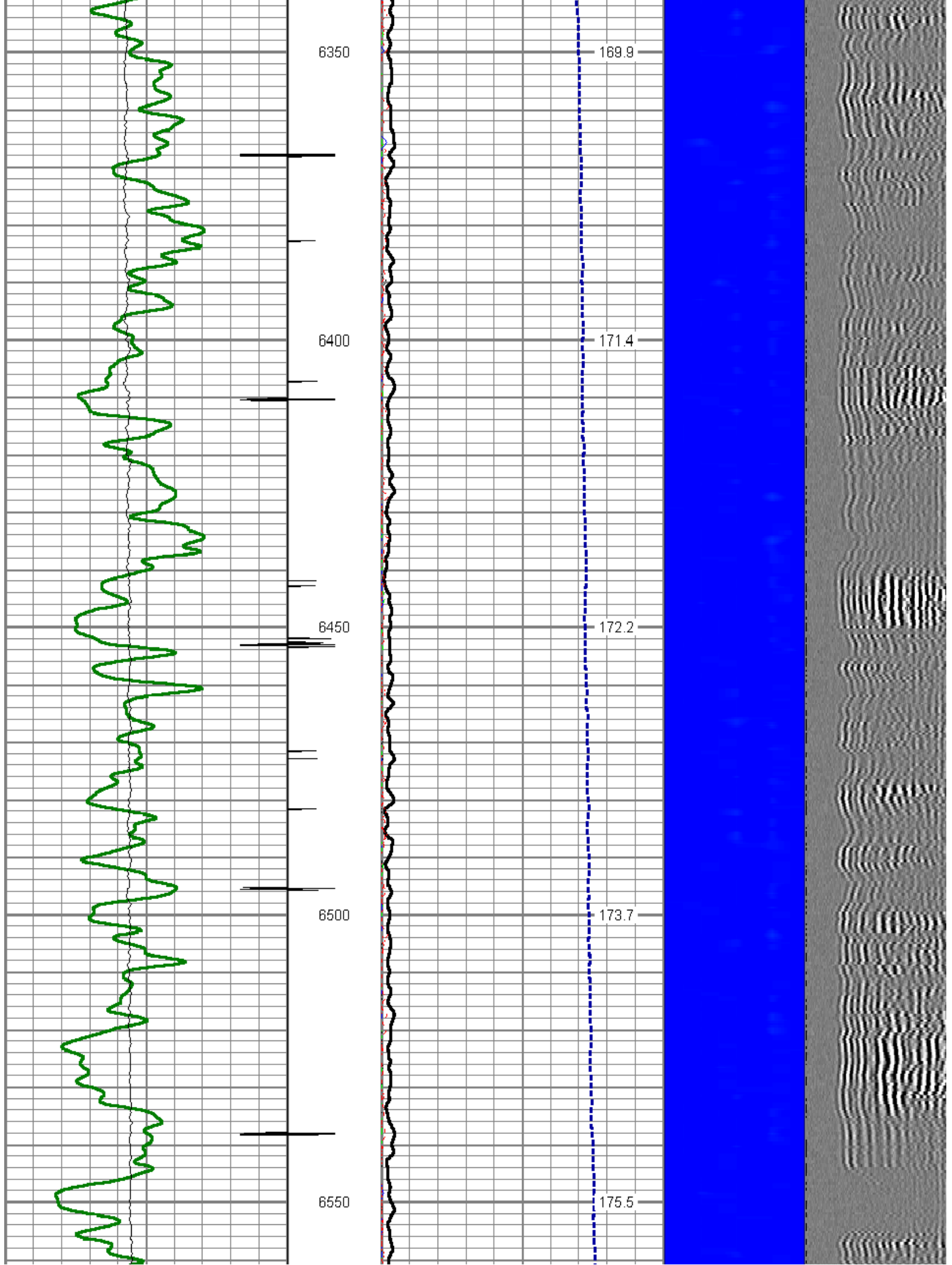


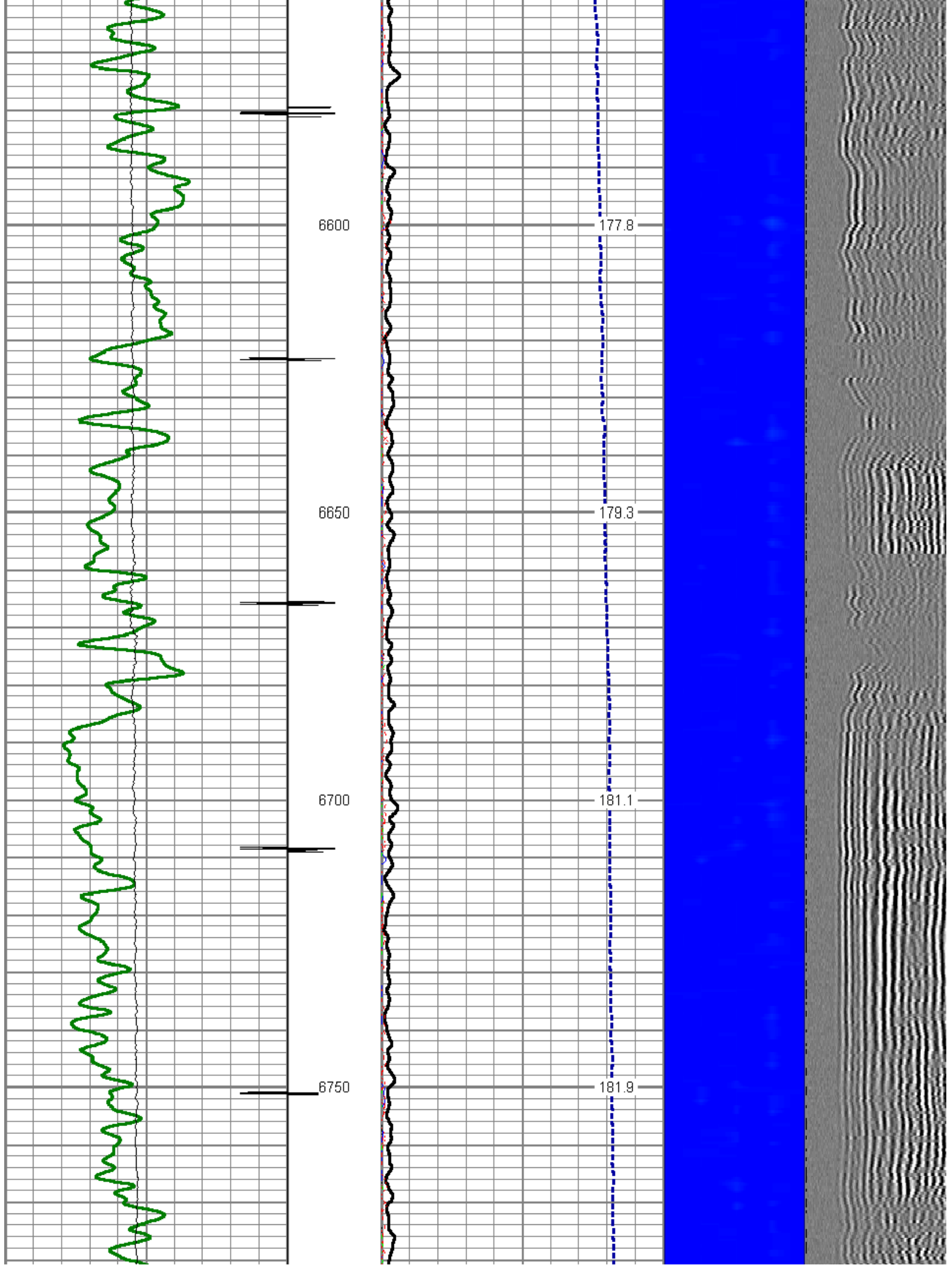


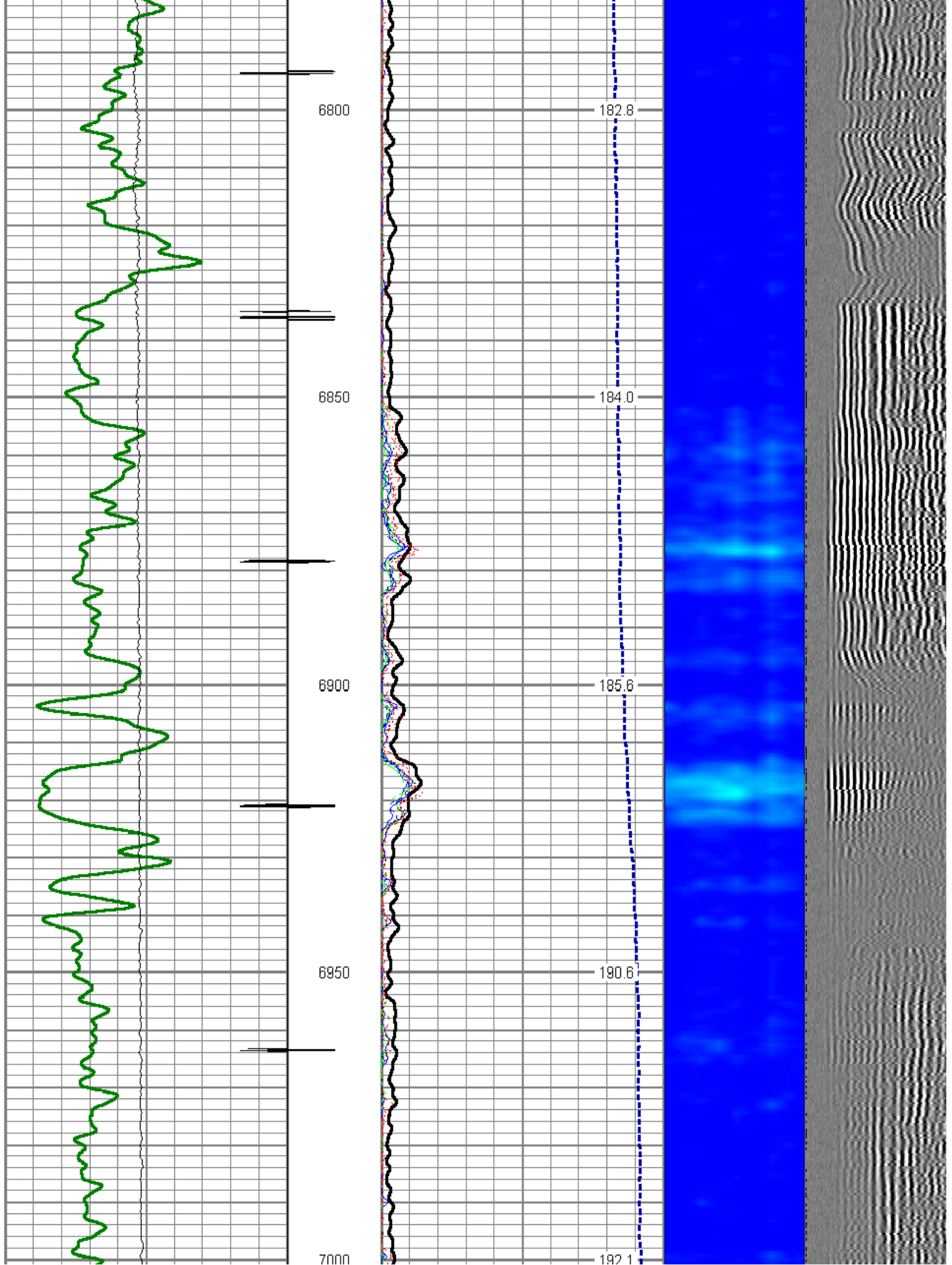


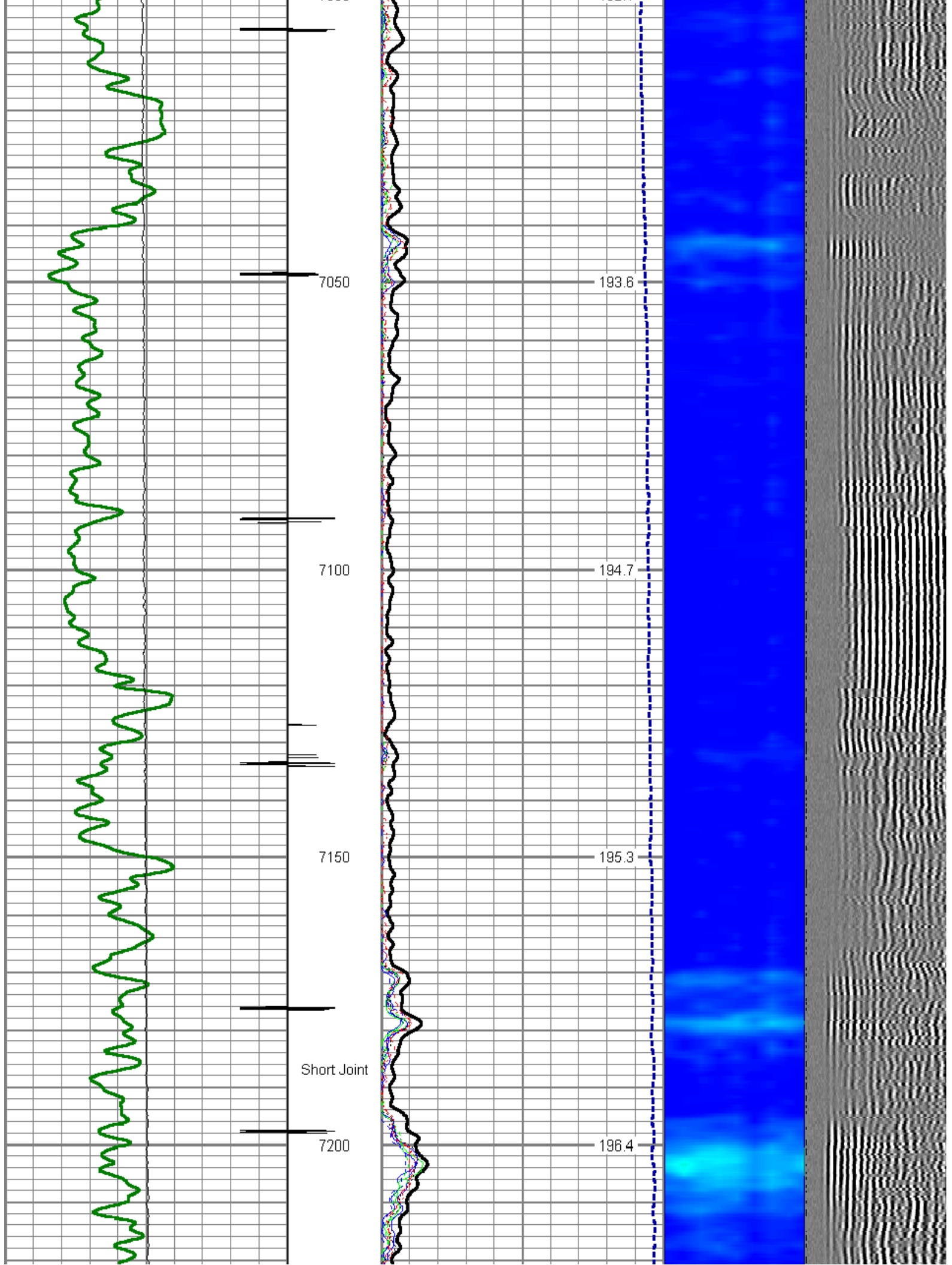


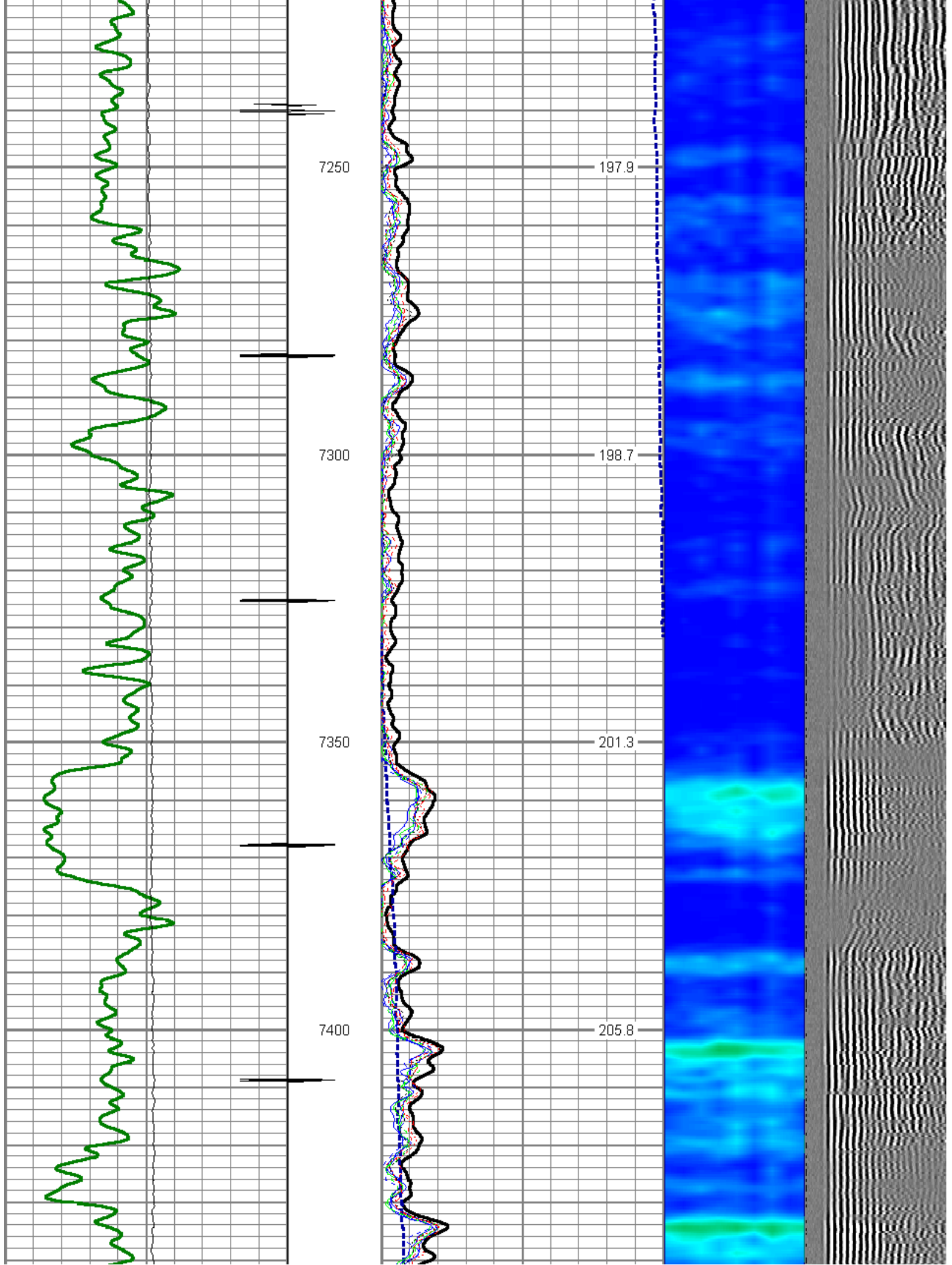


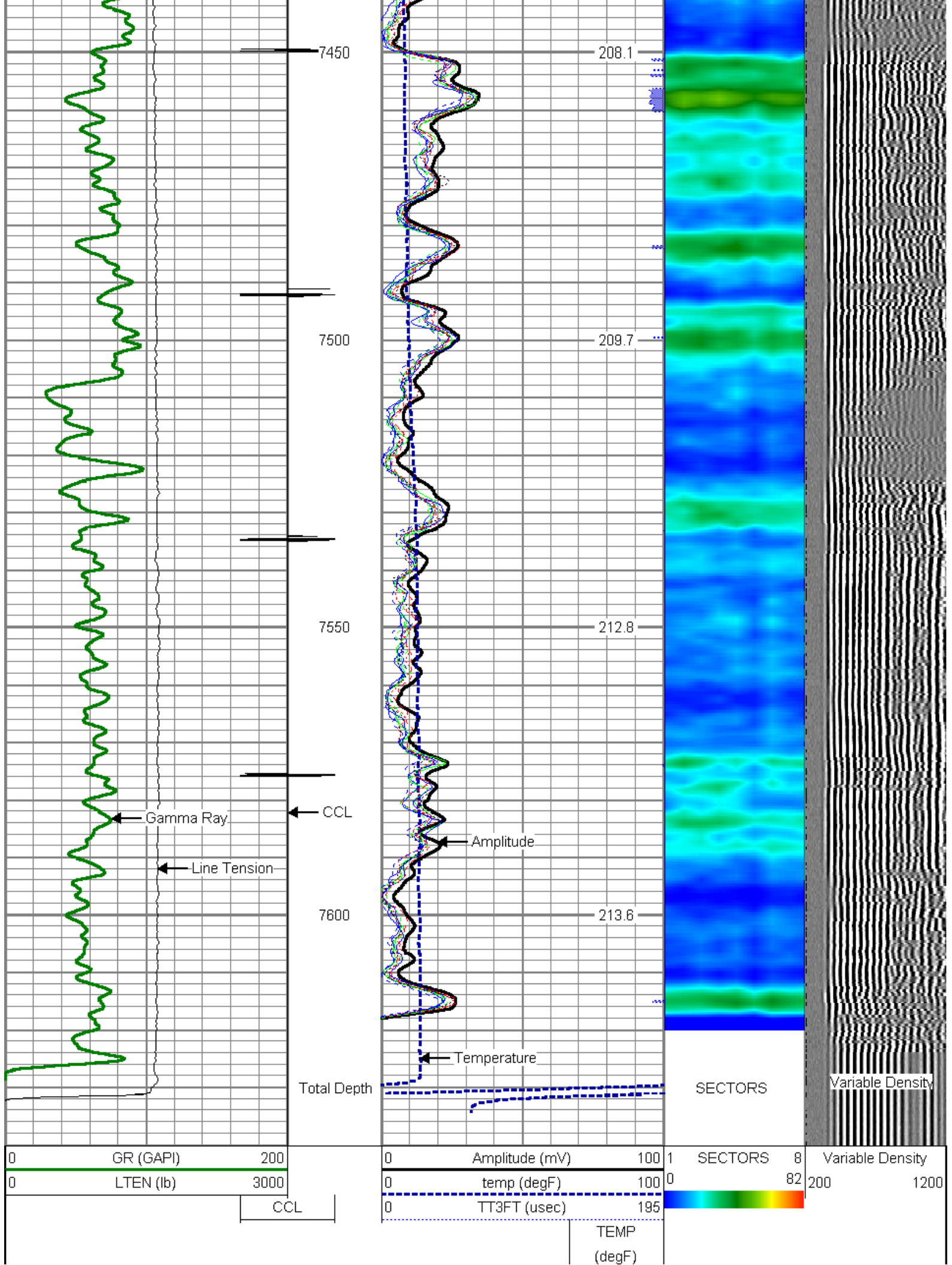


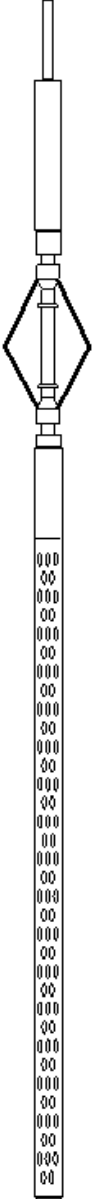
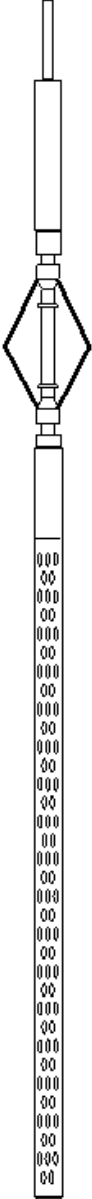
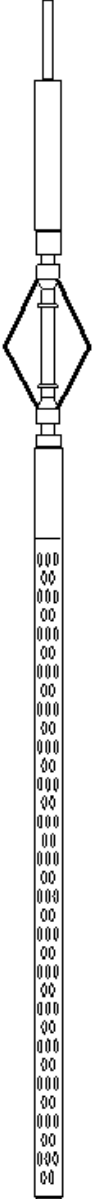
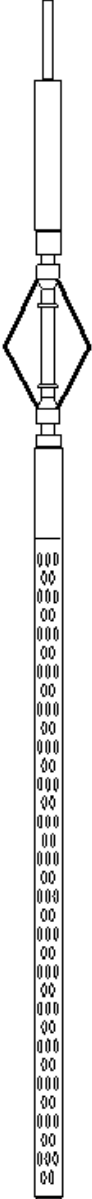










Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) CSS Gamma Ray/CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00
WVFS3FT	13.92		SNDX_RBT-007 (000004) Radial Bond Tool - Analog 3 1/8	9.47	3.13	140.00
WVFS1	13.92					
WVFS2	13.92					
WVFS3	13.92					
WVFS4	13.92					
WVFS5	13.92					
WVFS6	13.92					
WVFS7	13.92					
WVFS8	13.92					
WVFS5FT	12.92					
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					

Total Weight: 248.07 lb
O.D. 3.13 in



Company	ANTERO RESOURCES PICEANCE CORP.
Well	VALLEY FARMS I7
Field	MAMM CREEK
County	GARFIELD
State	COLORADO