

RADIAL CEMENT BOND
GAMMA RAY
CCL

Company		KERR MCGEE OIL AND GAS	
Well		LUHMAN UPRR 32-31 #1	
Field		WATTENBERG	
County		WELD	
State		CO	
Location:		AP1 # : 05-123-12856 SW/NE	
Other Services			
SEC 13		TWP 3N	
RGE 66W			
Permanent Datum		GL	
Log Measured From		KB 11	
Elevation		5025'	
Drilling Measured From		KB	
Elevation		K.B. 5036' D.F. 5035' G.L. 5025'	
Date		5-6-14	
Run Number		ONE	
Depth Driller		7548'	
Depth Logger		7086'	
Bottom Logged Interval		7083'	
Top Log Interval		SURFACE	
Open Hole Size		7.875	
Type Fluid		WATER	
Density / Viscosity		1.0	
Max. Recorded Temp.		216	
Estimated Cement Top		3565	
Time Well Ready		N/A	
Time Logger on Bottom		N/A	
Equipment Number		4310	
Location		GREELEY	
Recorded By		N. BREHMER	
Witnessed By		R. THOMPSON	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		8.63	
Wgt/Ft		24#	
Top		SURFACE	
Bottom		418'	
Prot. String		4.5	
Production String		12.75#	
SURFACE		7545'	
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

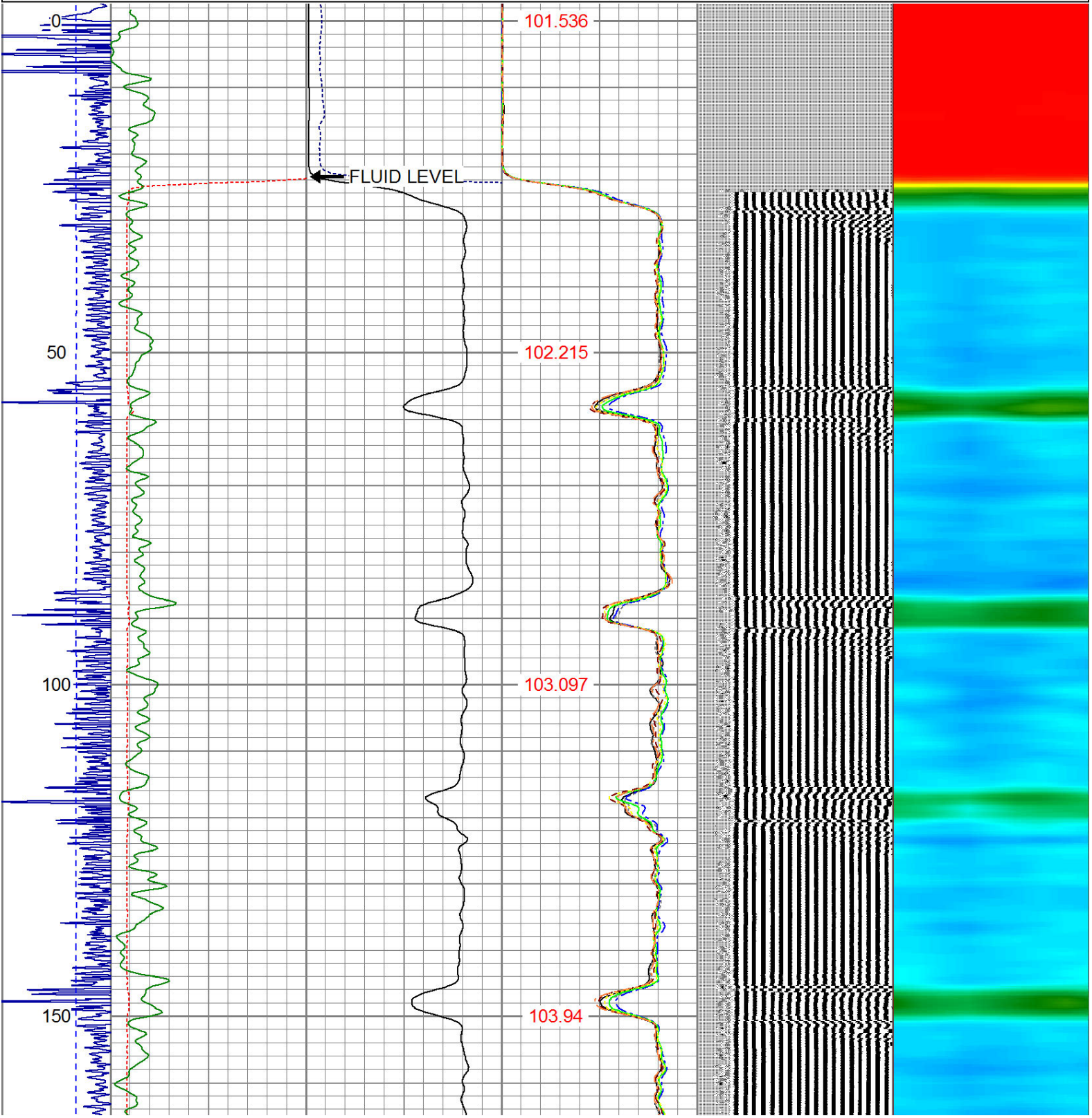
RAN CBL TO VERIFY CEMENT BOND

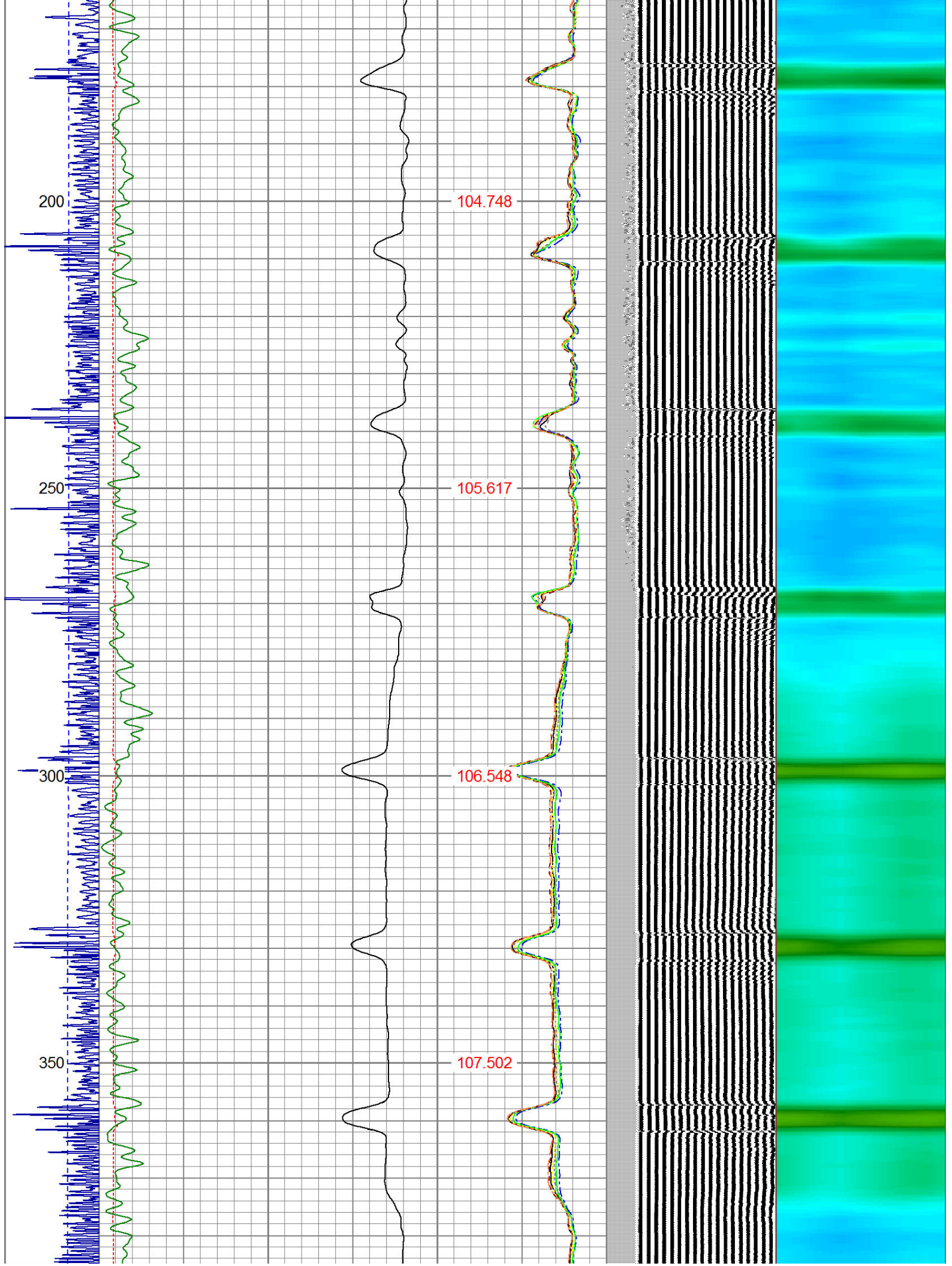
THANK YOU FOR USING WARRIOR !!!!!!!

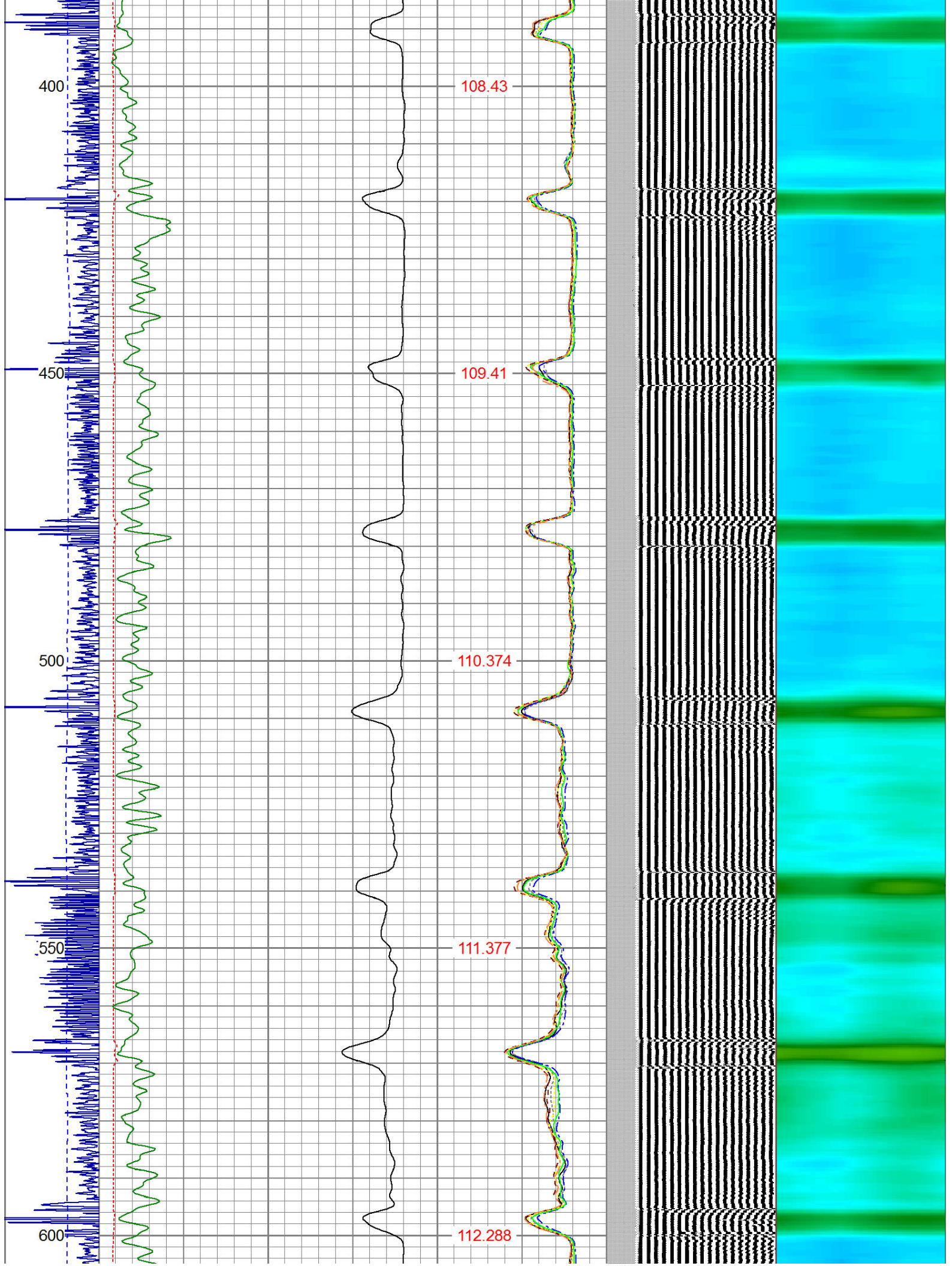
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

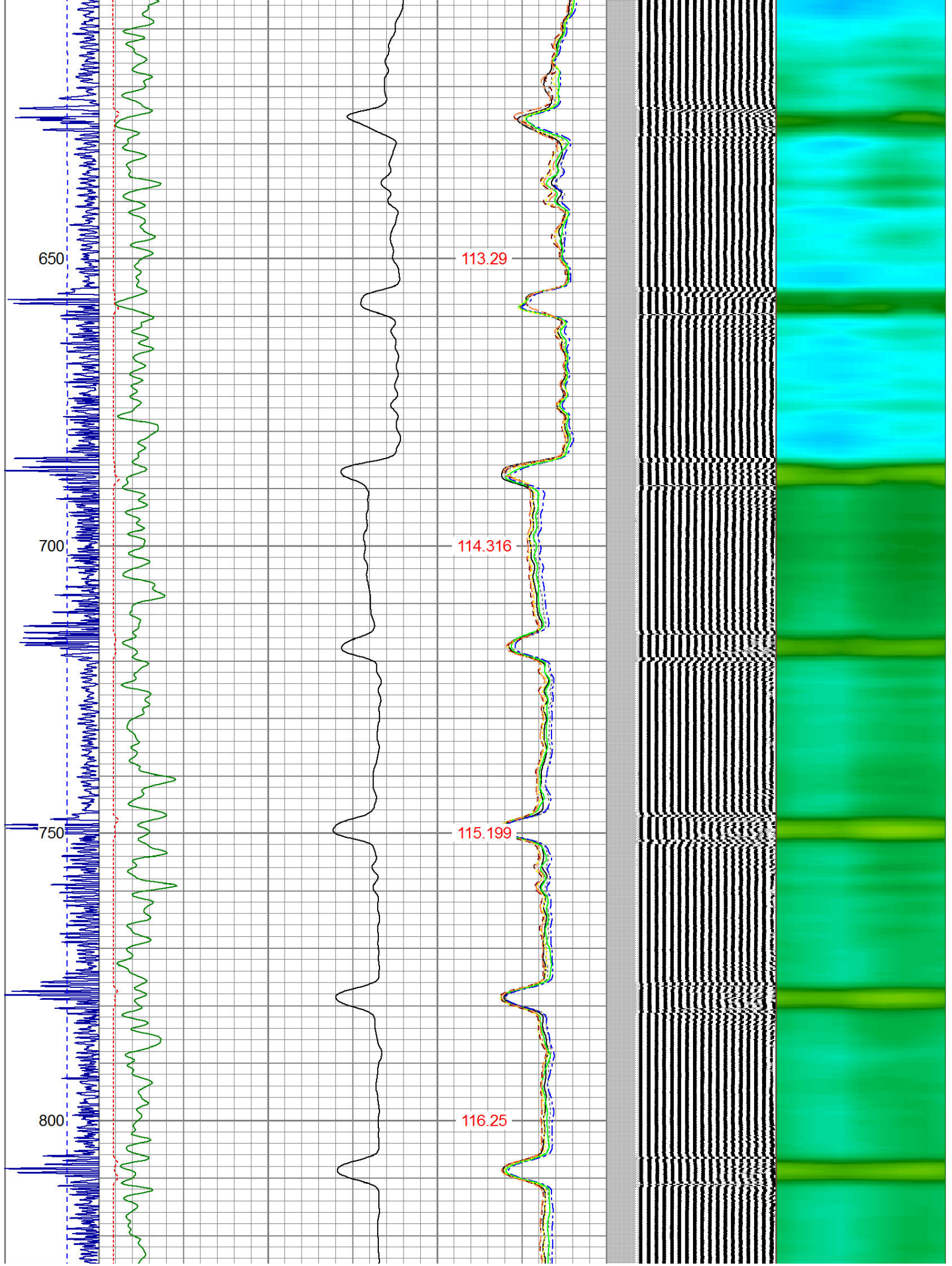
			PTS275	2.83	2.75	
HEADVOLT	16.13					
IntTemp	14.71					
WVF3FT	11.46		RBT-Probe (Base)	8.92	2.75	90.00
WVFCAL	11.46		Probe Radii Bond Tool with Digital Telemetry			
WVFS1	11.46					
WVFS2	11.46					
WVFS3	11.46					
WVFS4	11.46					
WVFS5	11.46					
WVFS6	11.46					
WVFS7	11.46					
WVFS8	11.46					
WVF5FT	10.46					
CNLSC	6.00		CNT-Probe_B (275)	2.88	2.75	40.00
CNSSC	5.17		6 bow centralizer			
CCL	3.64					
			GR-Probe (275)	4.33	2.75	30.00
			Probe 2.75"			
GR	0.90					
Dataset: luhman uprr 32-13 #1.db: field/well/run1/pass3 Total Length: 18.96 ft Total Weight: 160.00 lb O.D. 2.75 in						

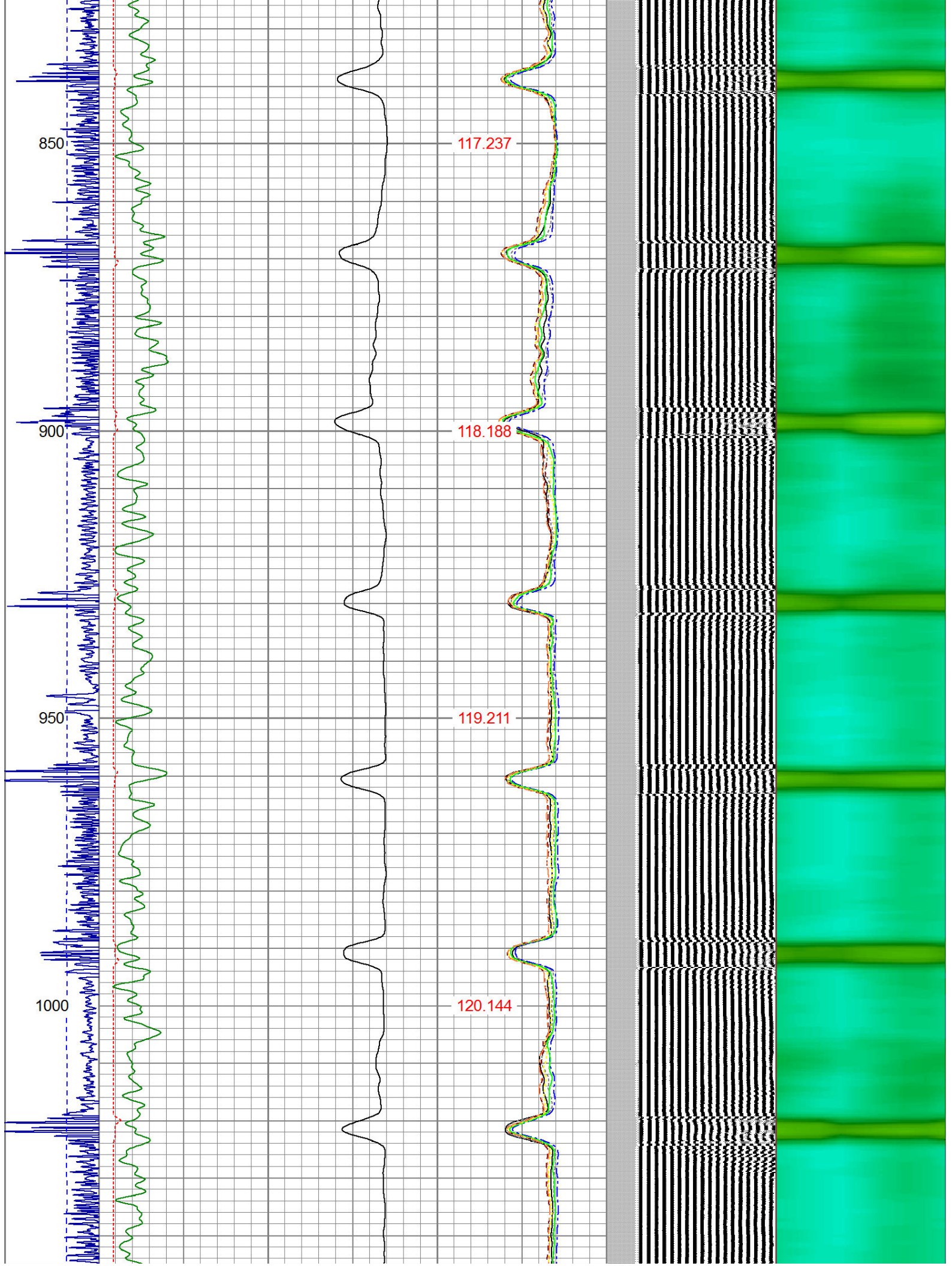
-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8					
LSPD (ft/min)	0		0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100			1								
	200		200	GR (GAPI)	400			0	AMPS4	100												
	0		250					0	AMPS5	100												
								0	AMPS6	100												
								0	AMPS7	100												
								0	AMPS8	100												
								IntTemp (degF)														

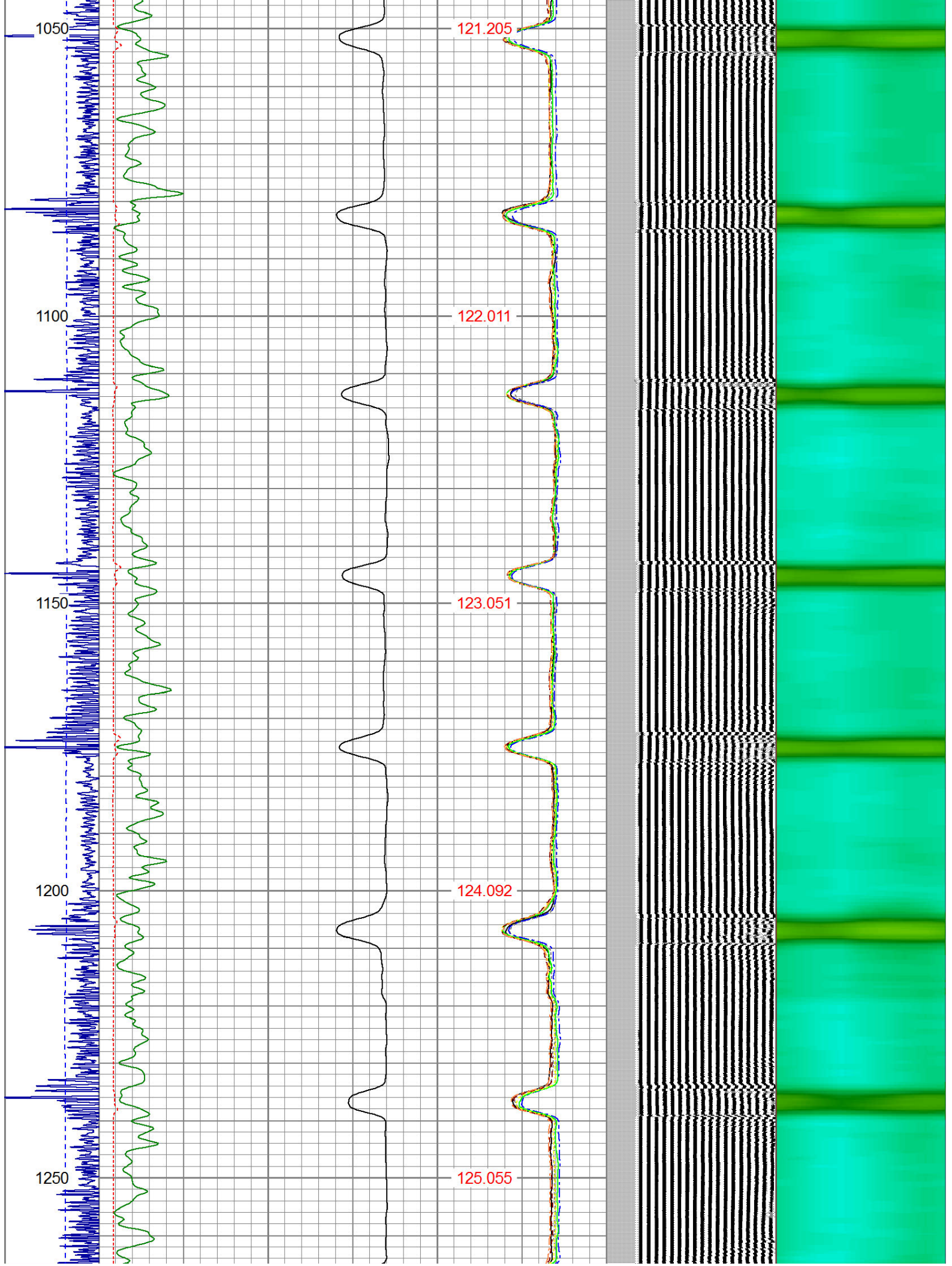


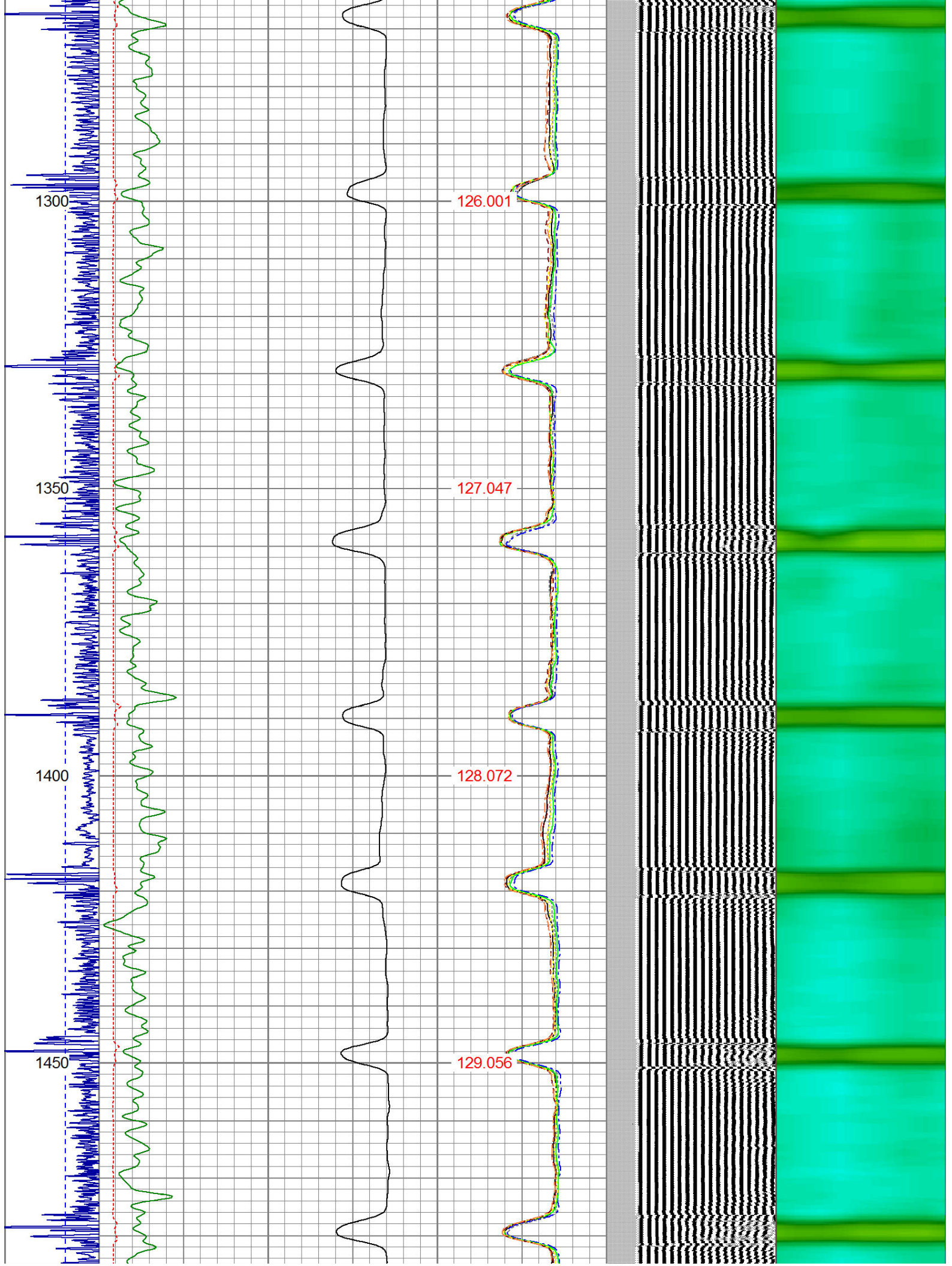


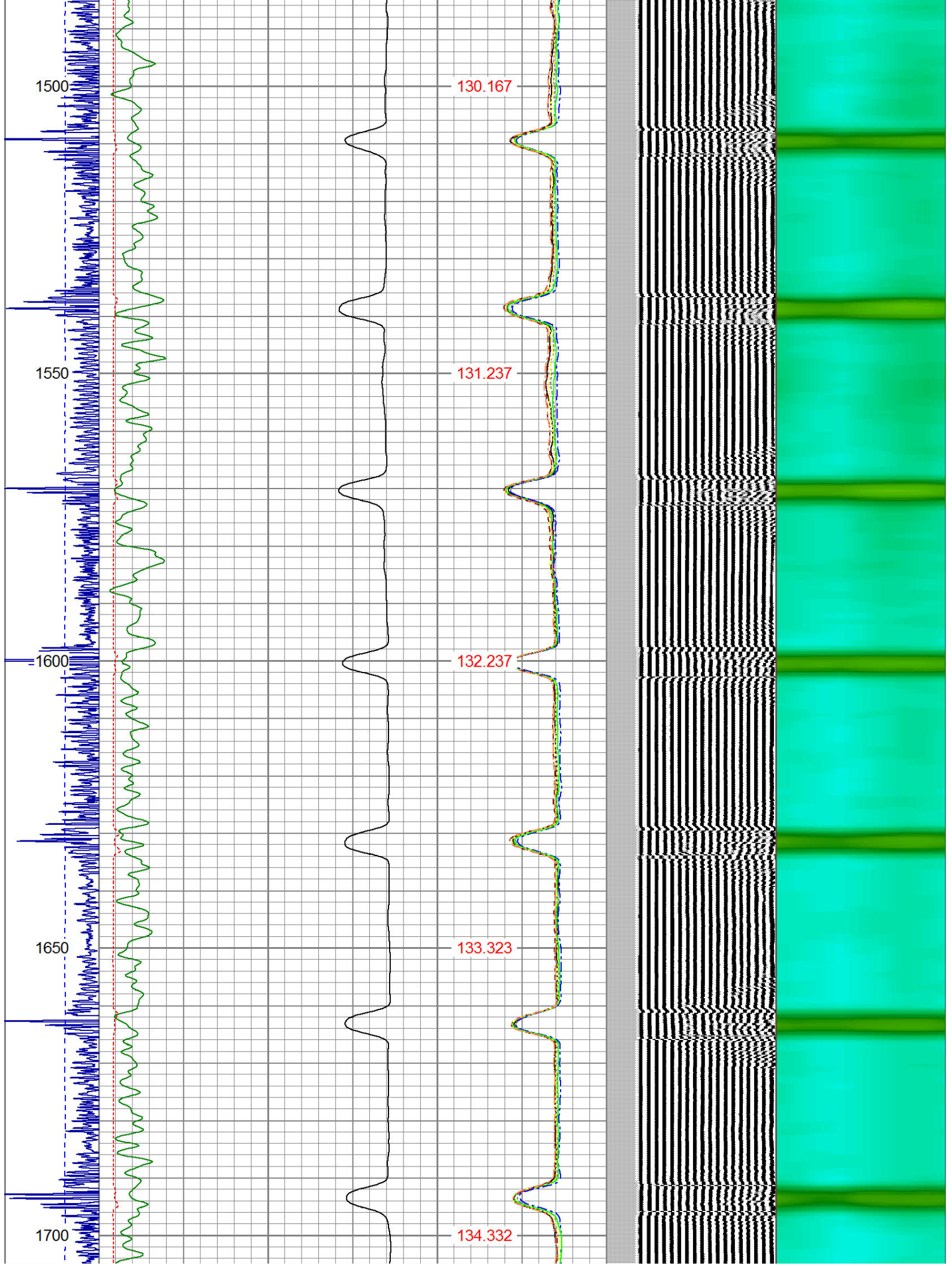


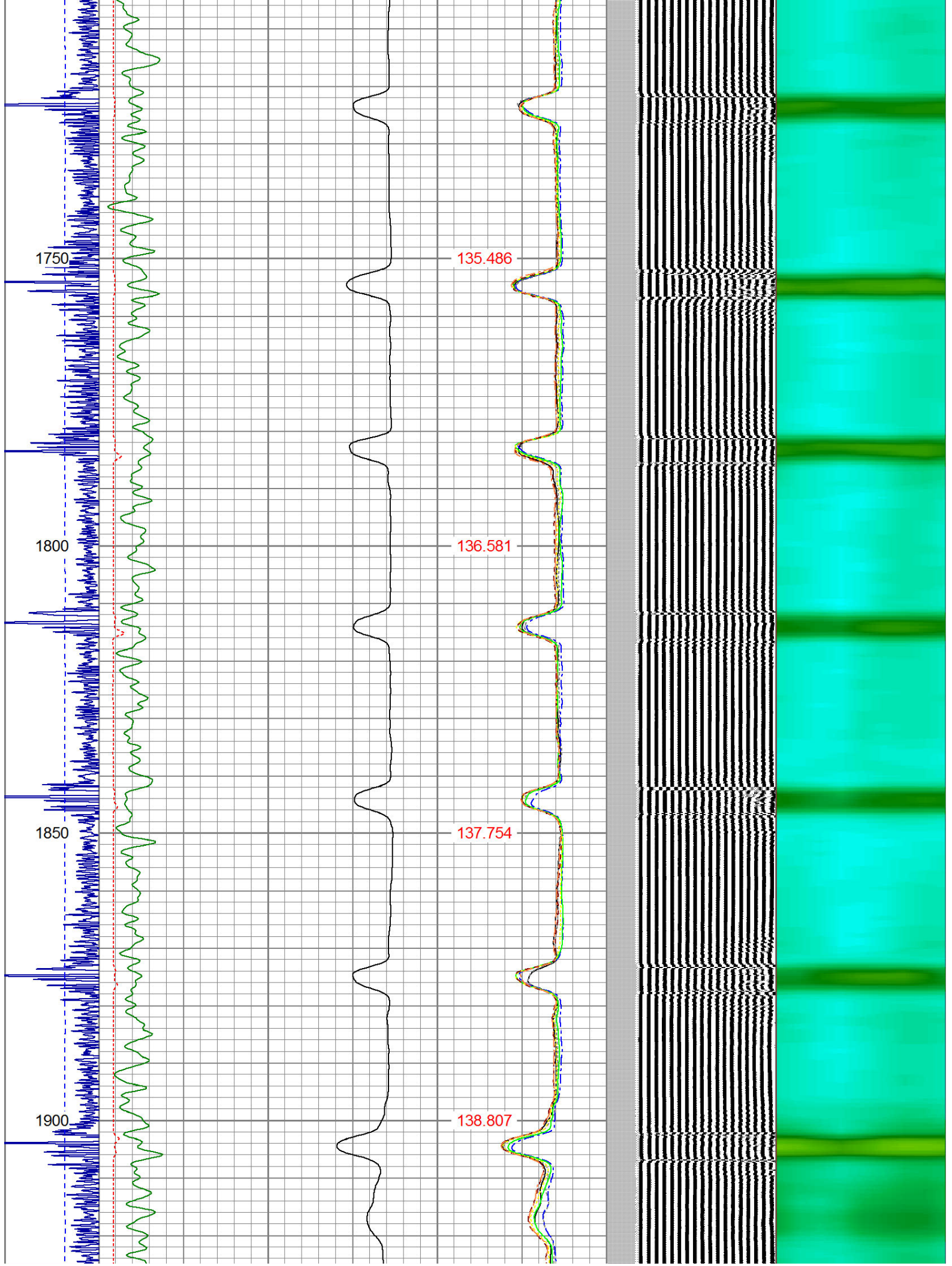


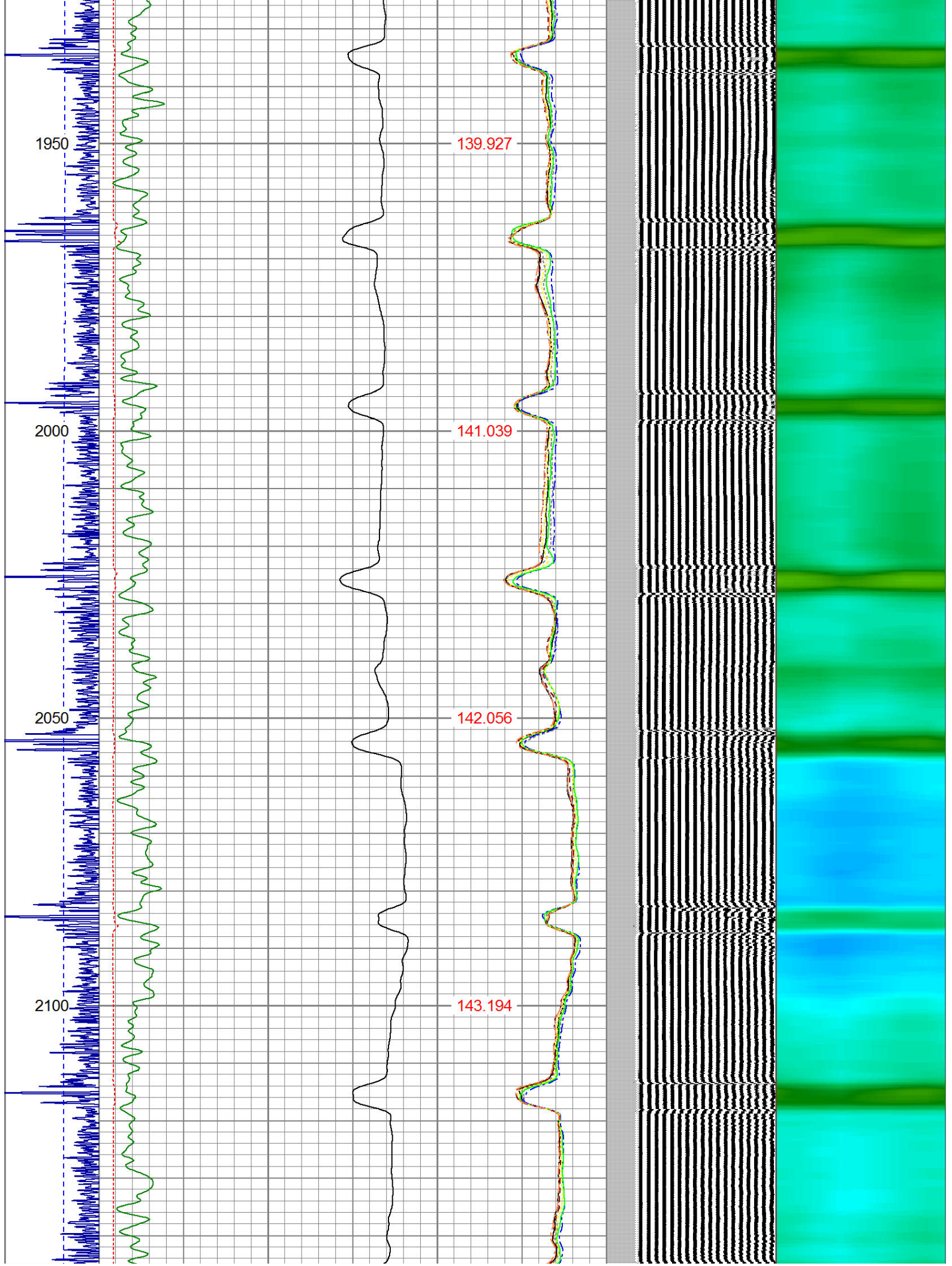


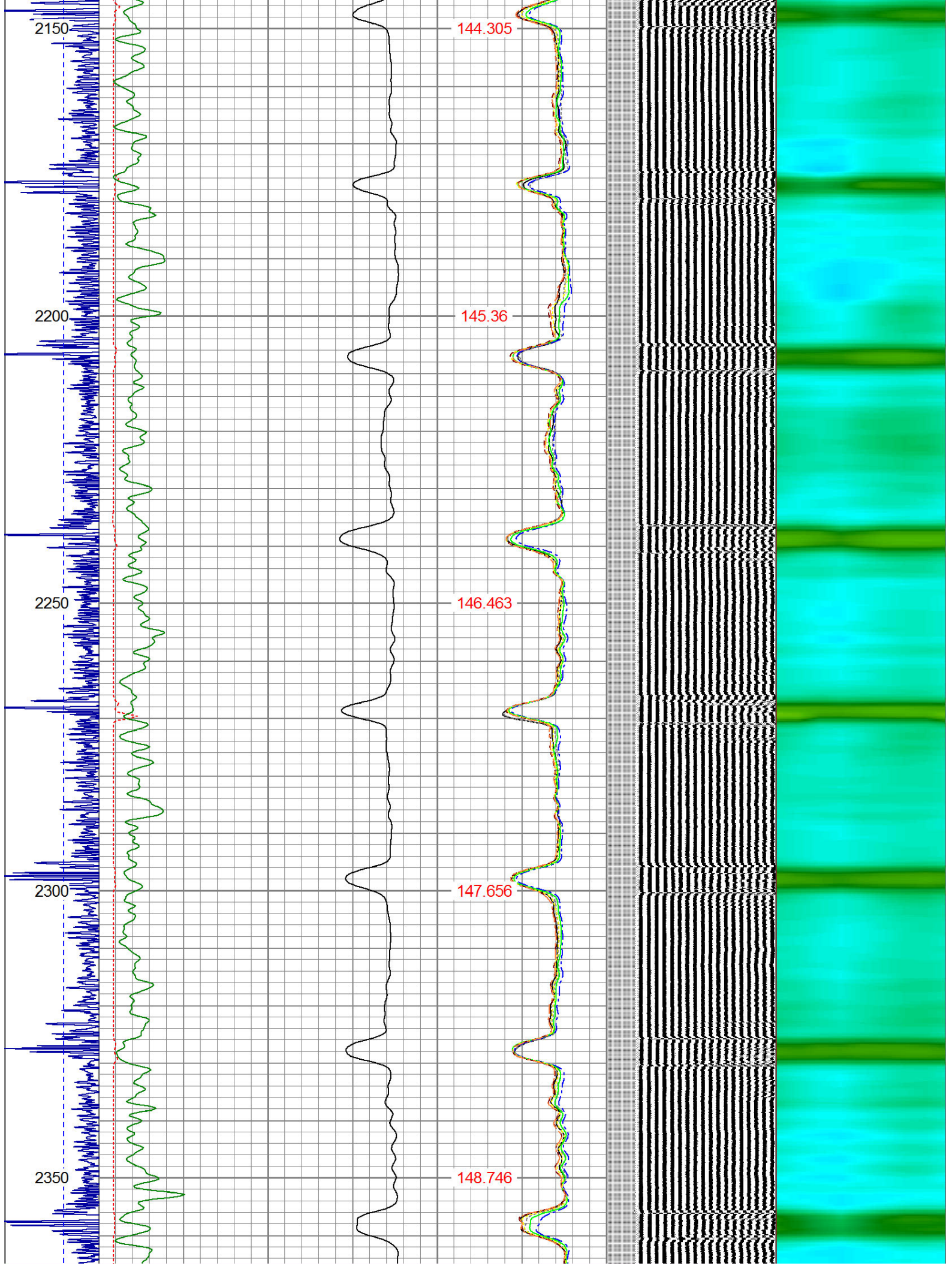


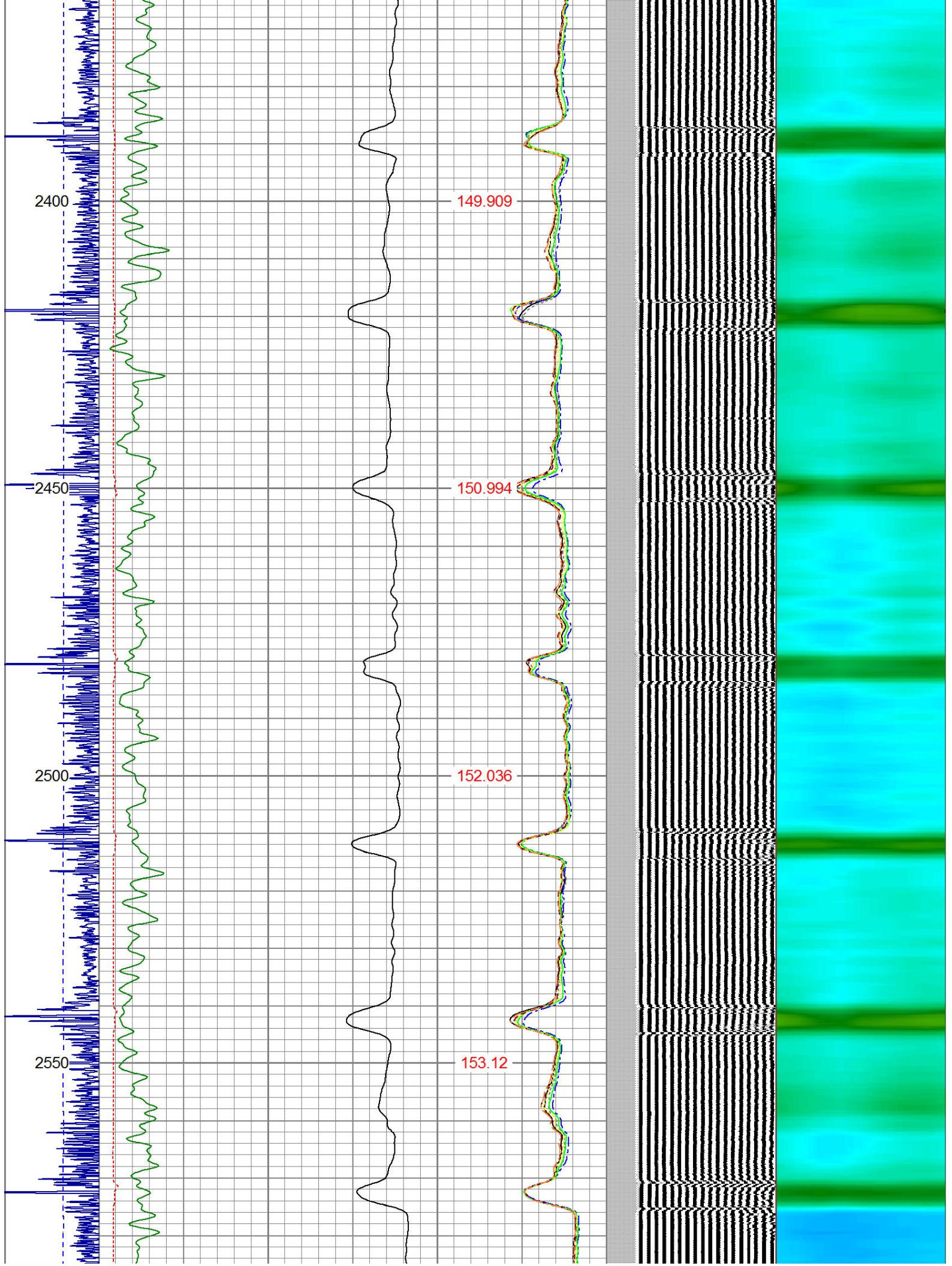


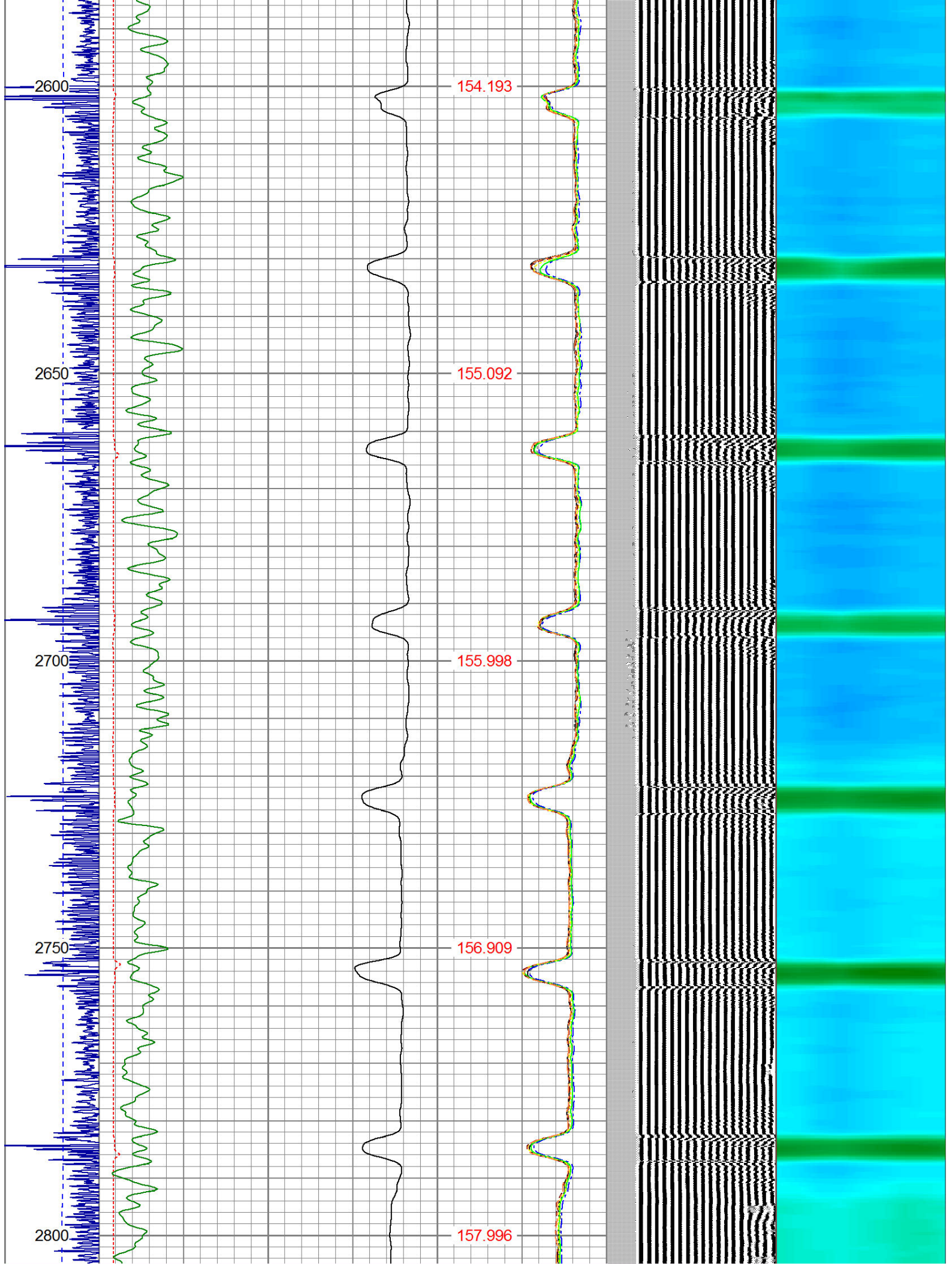


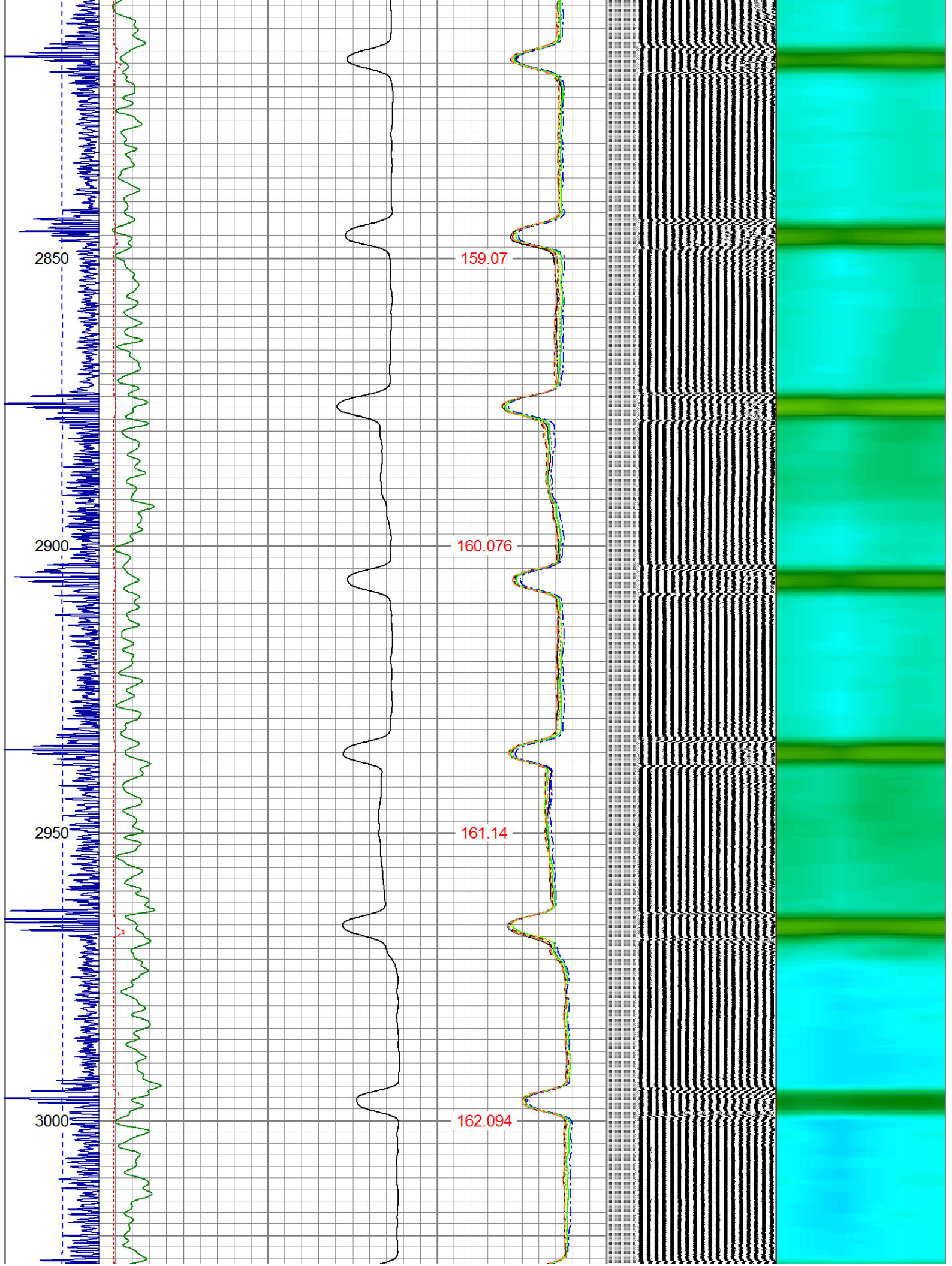


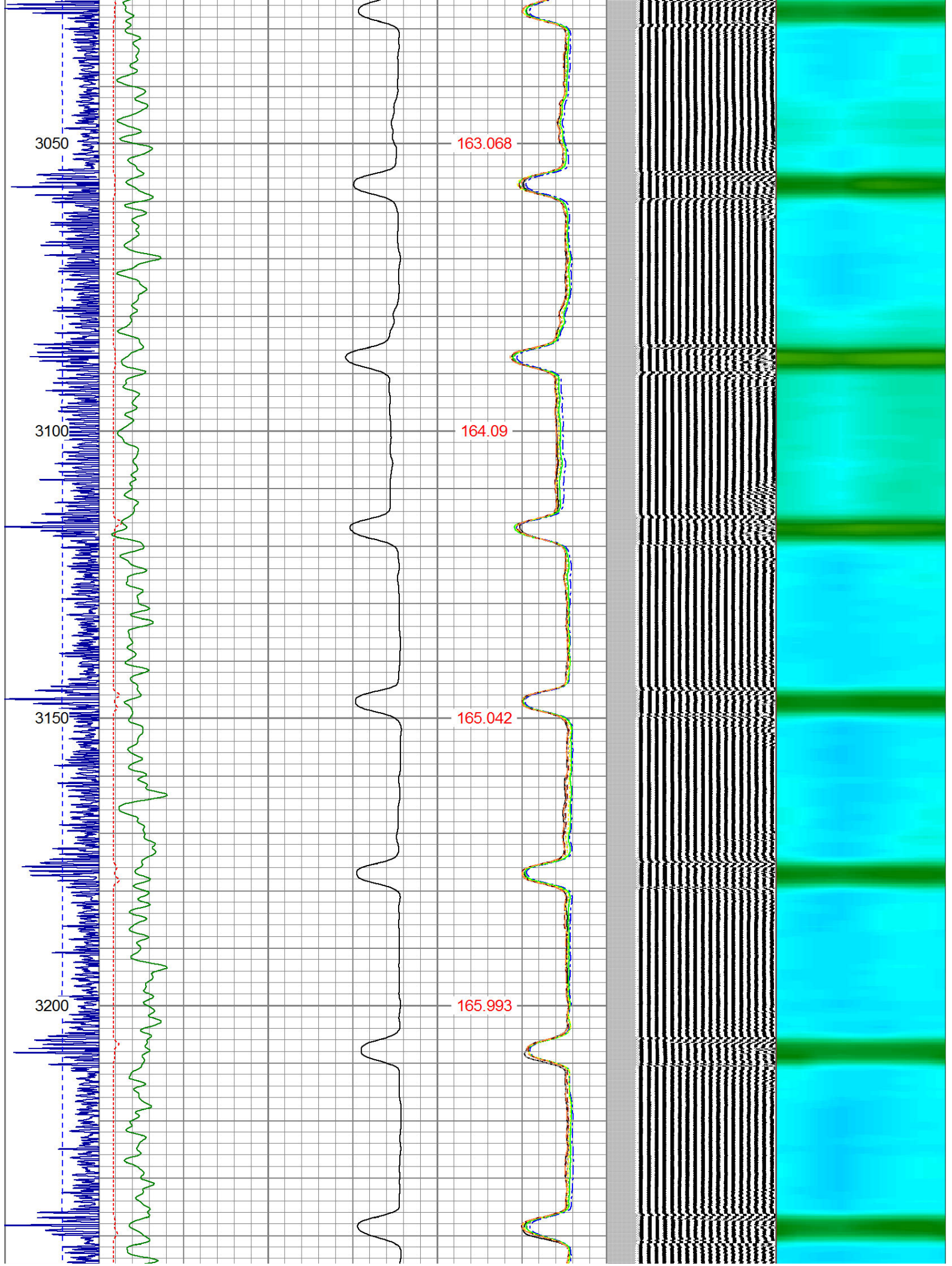


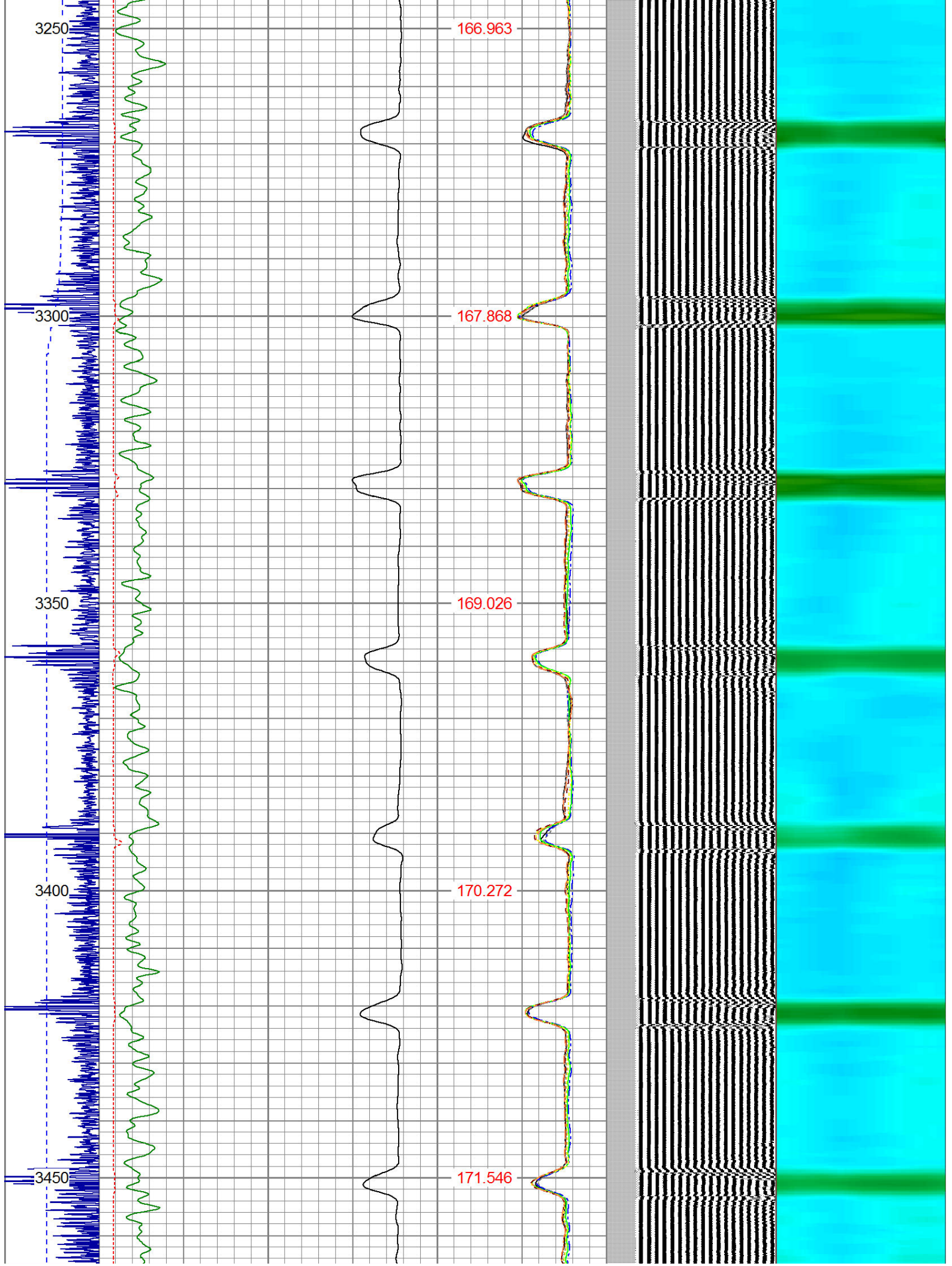


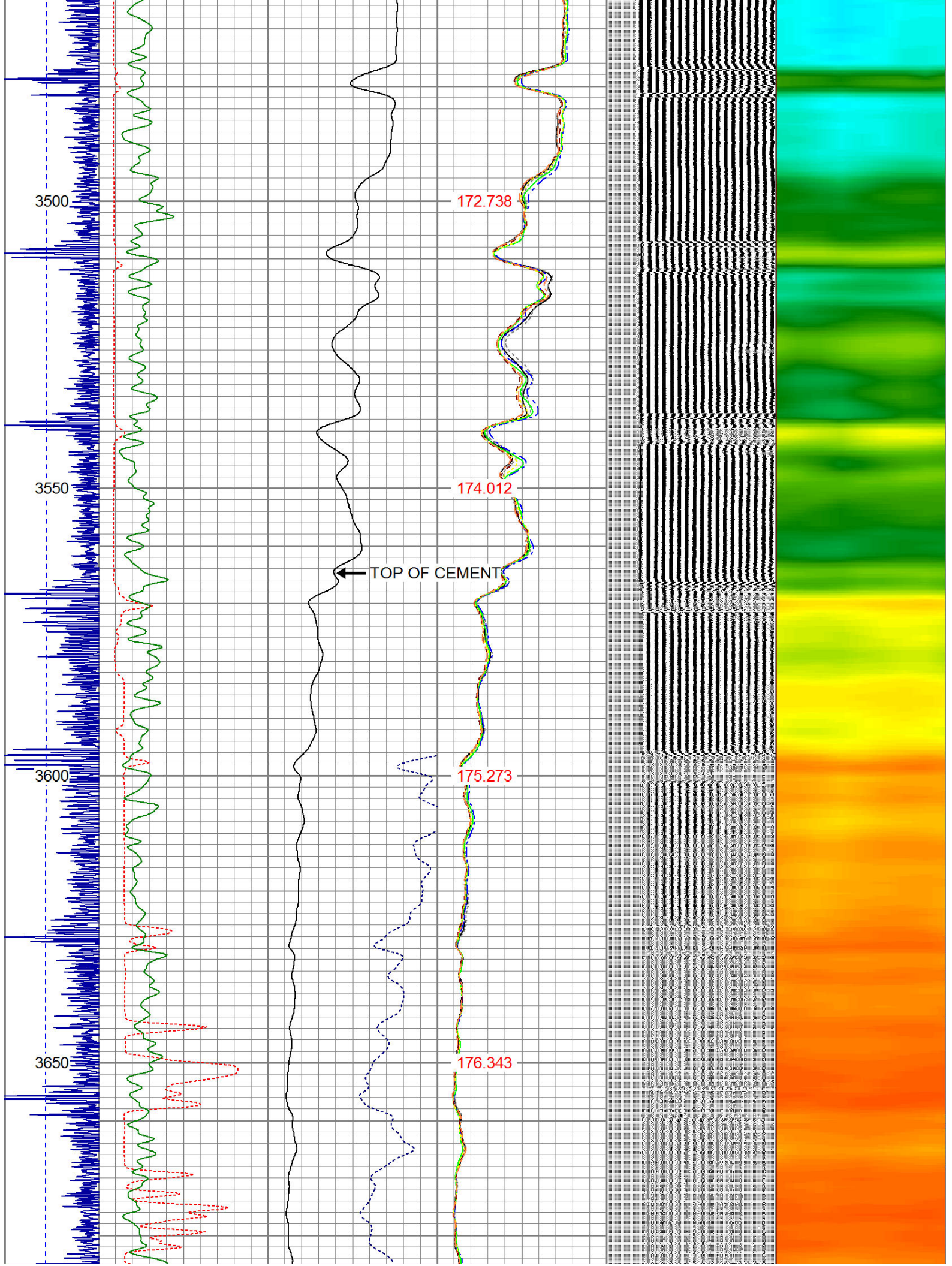


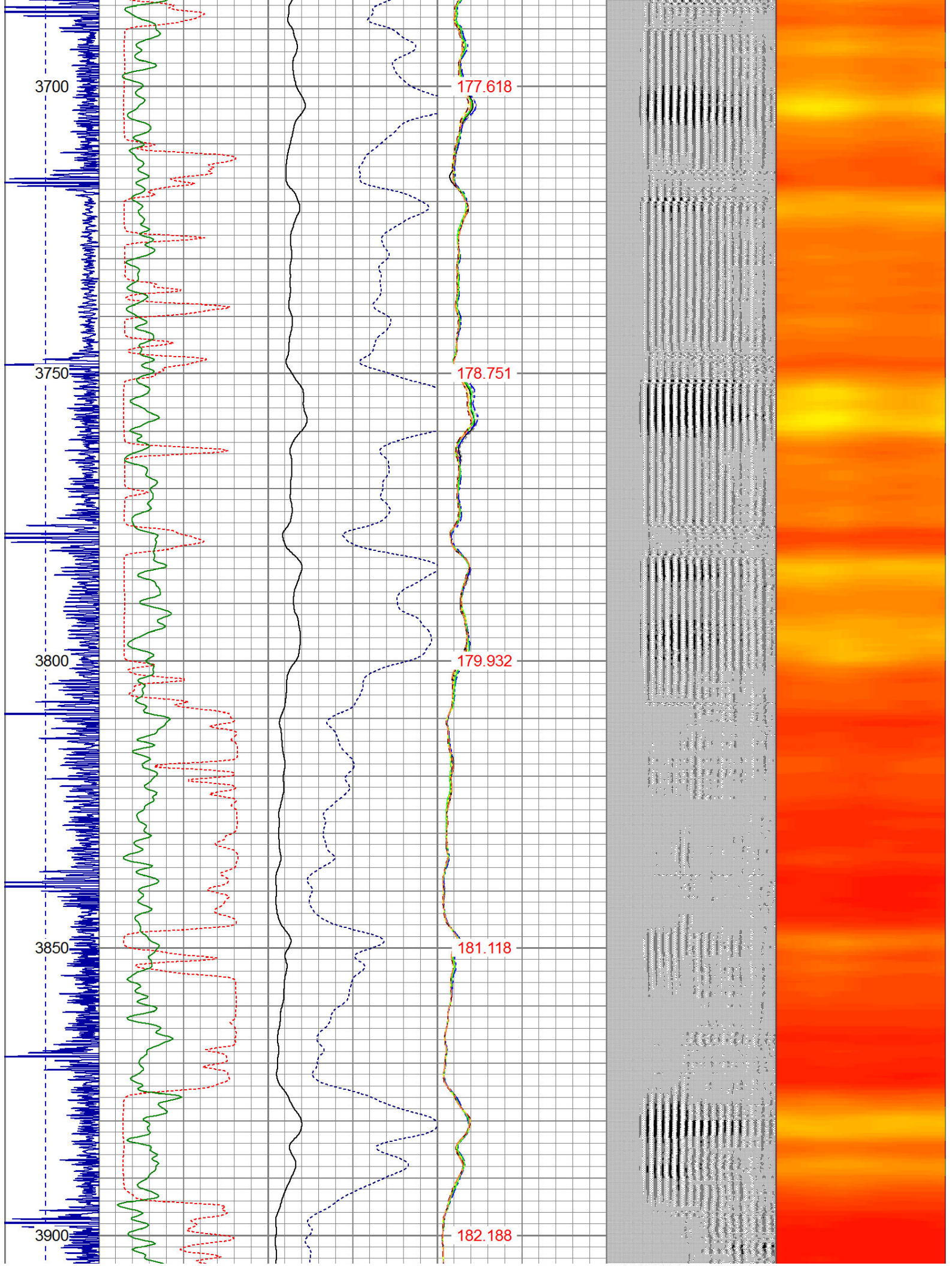


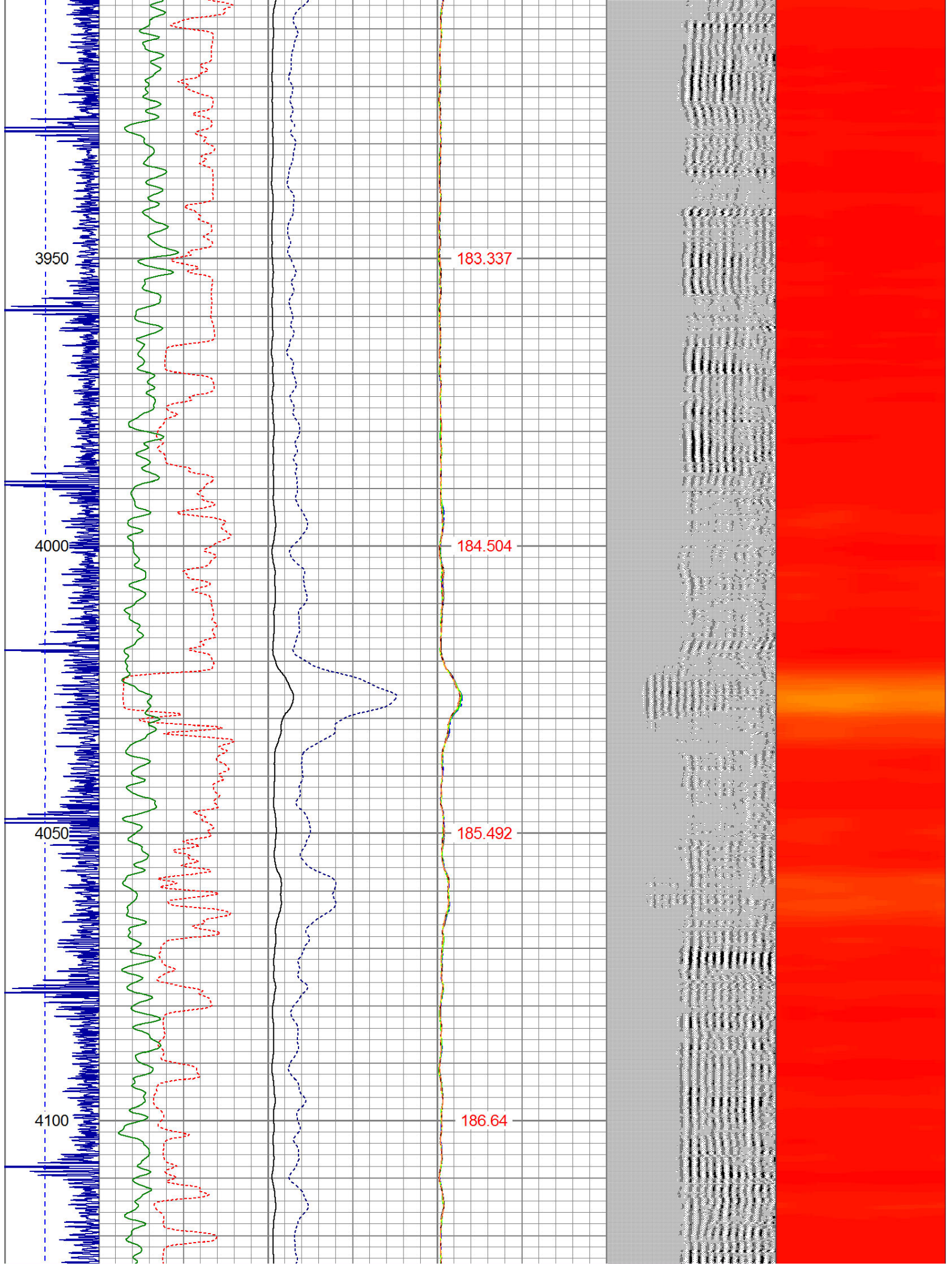


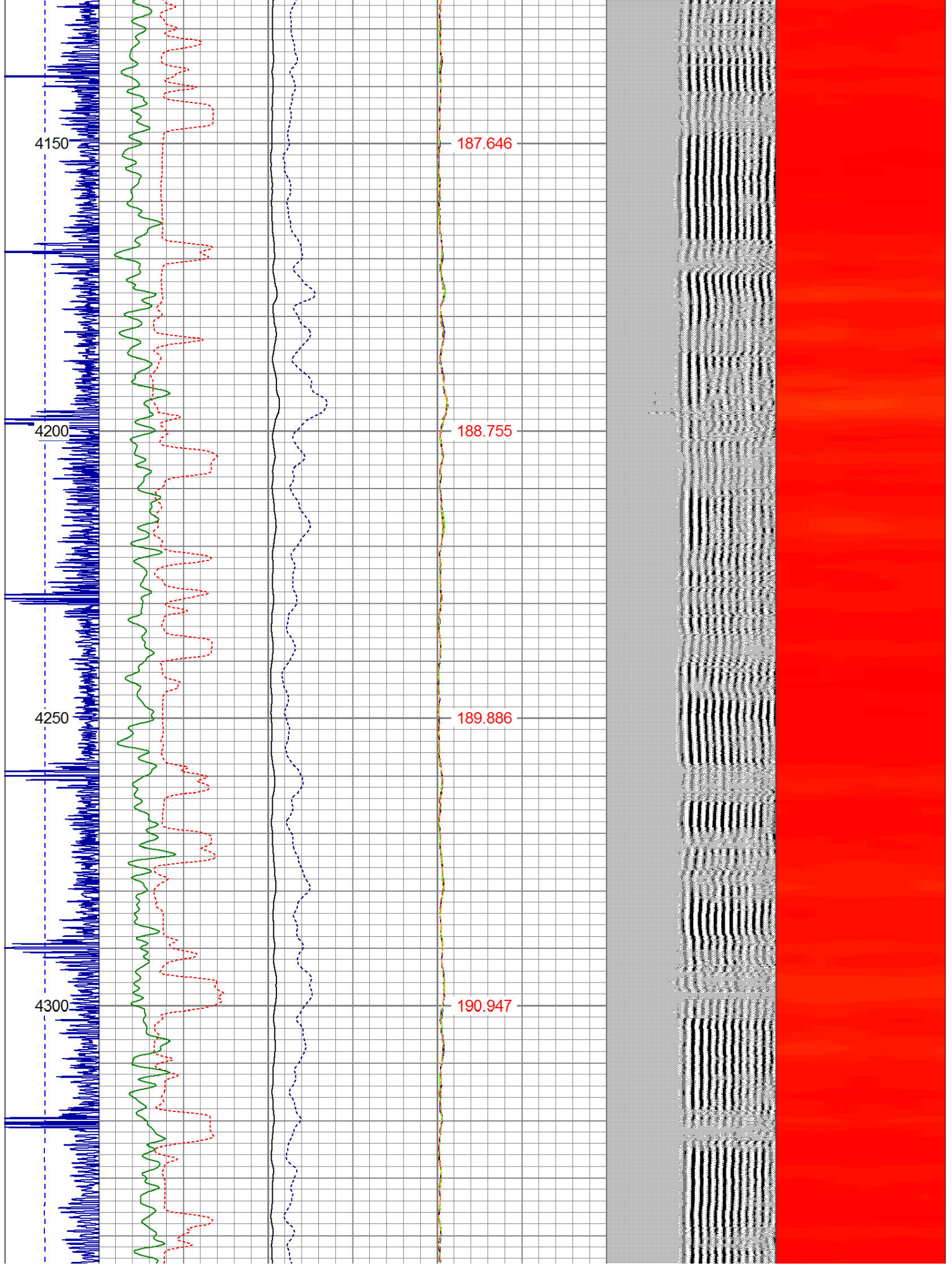


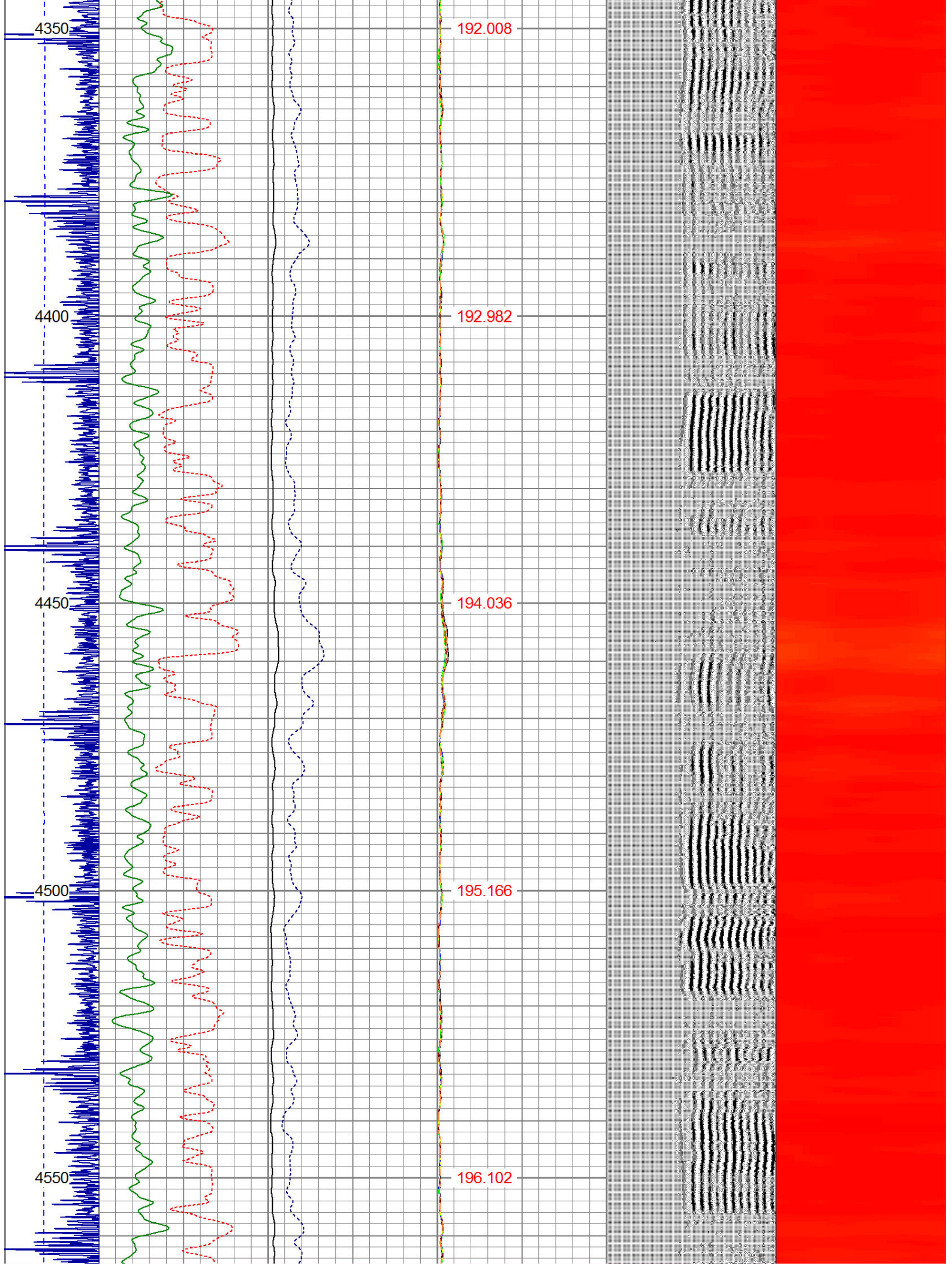


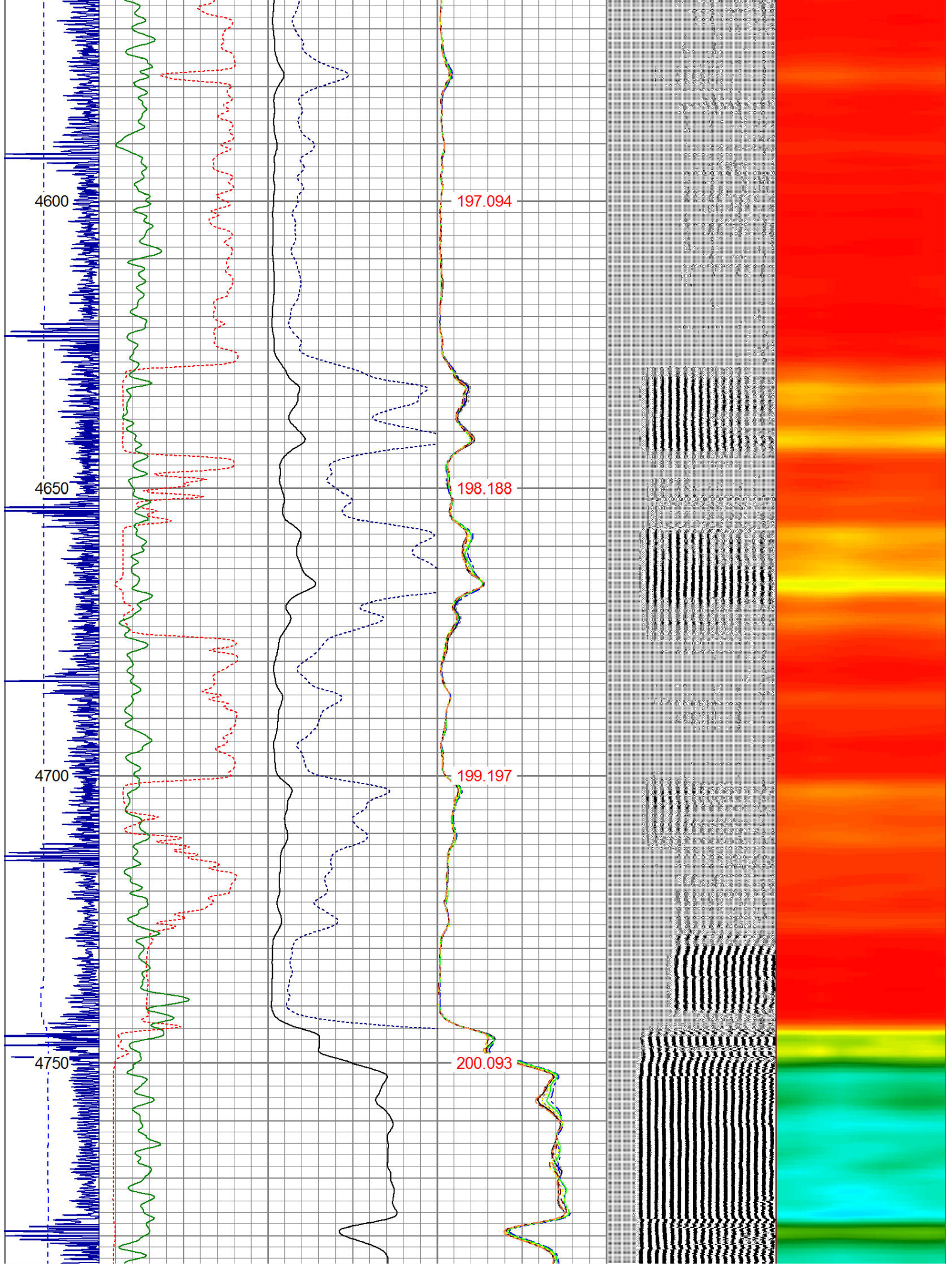


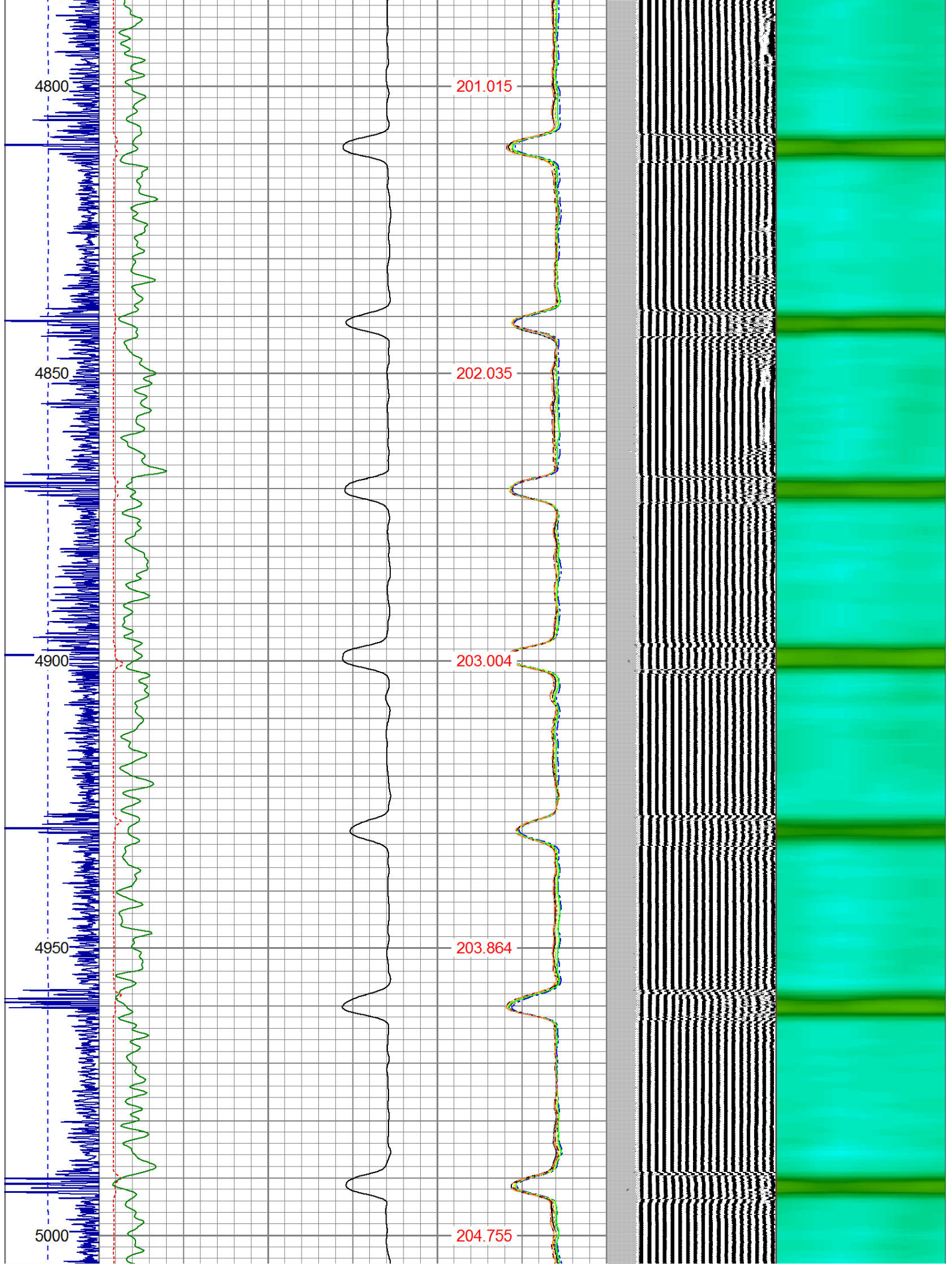


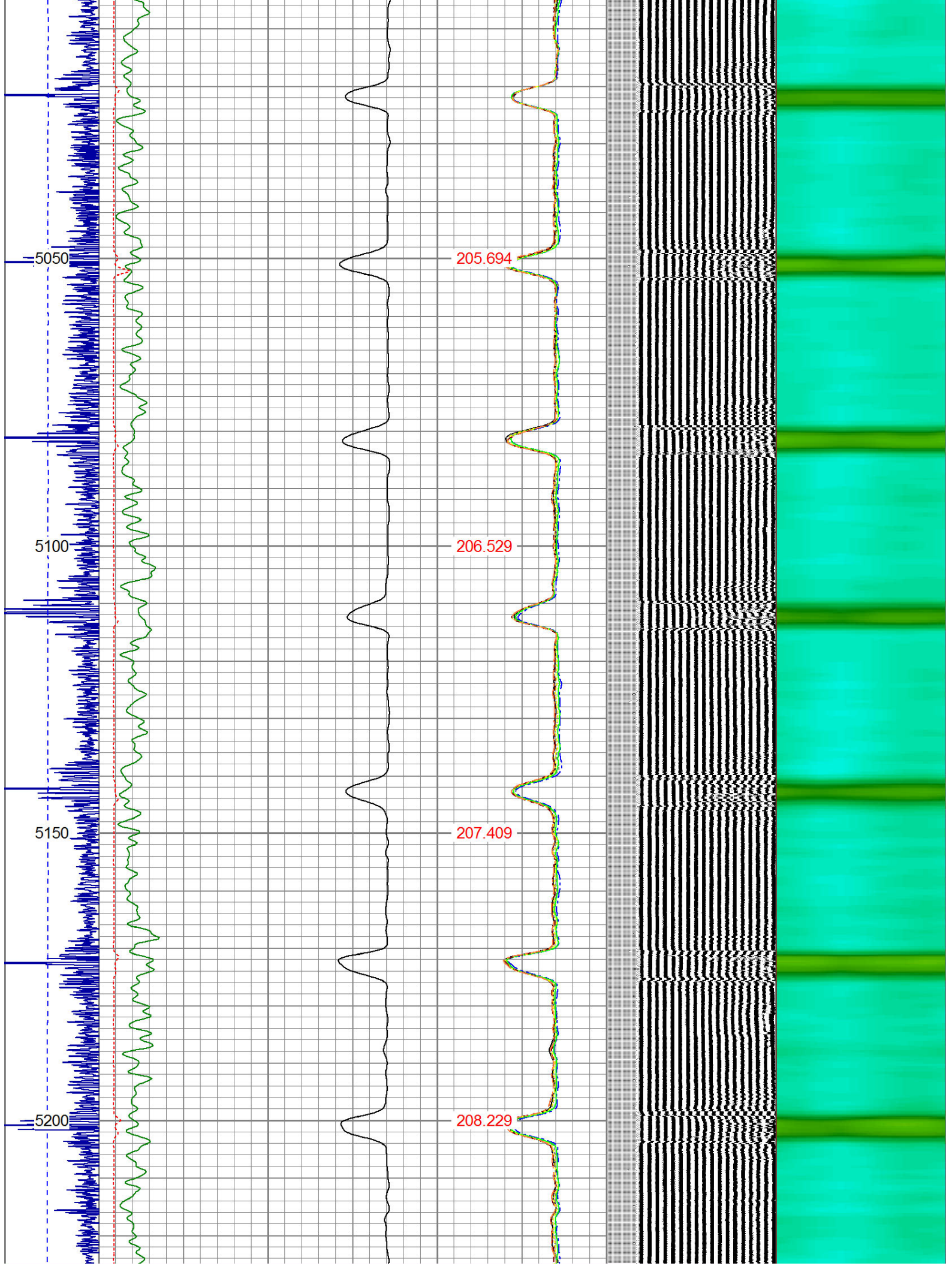


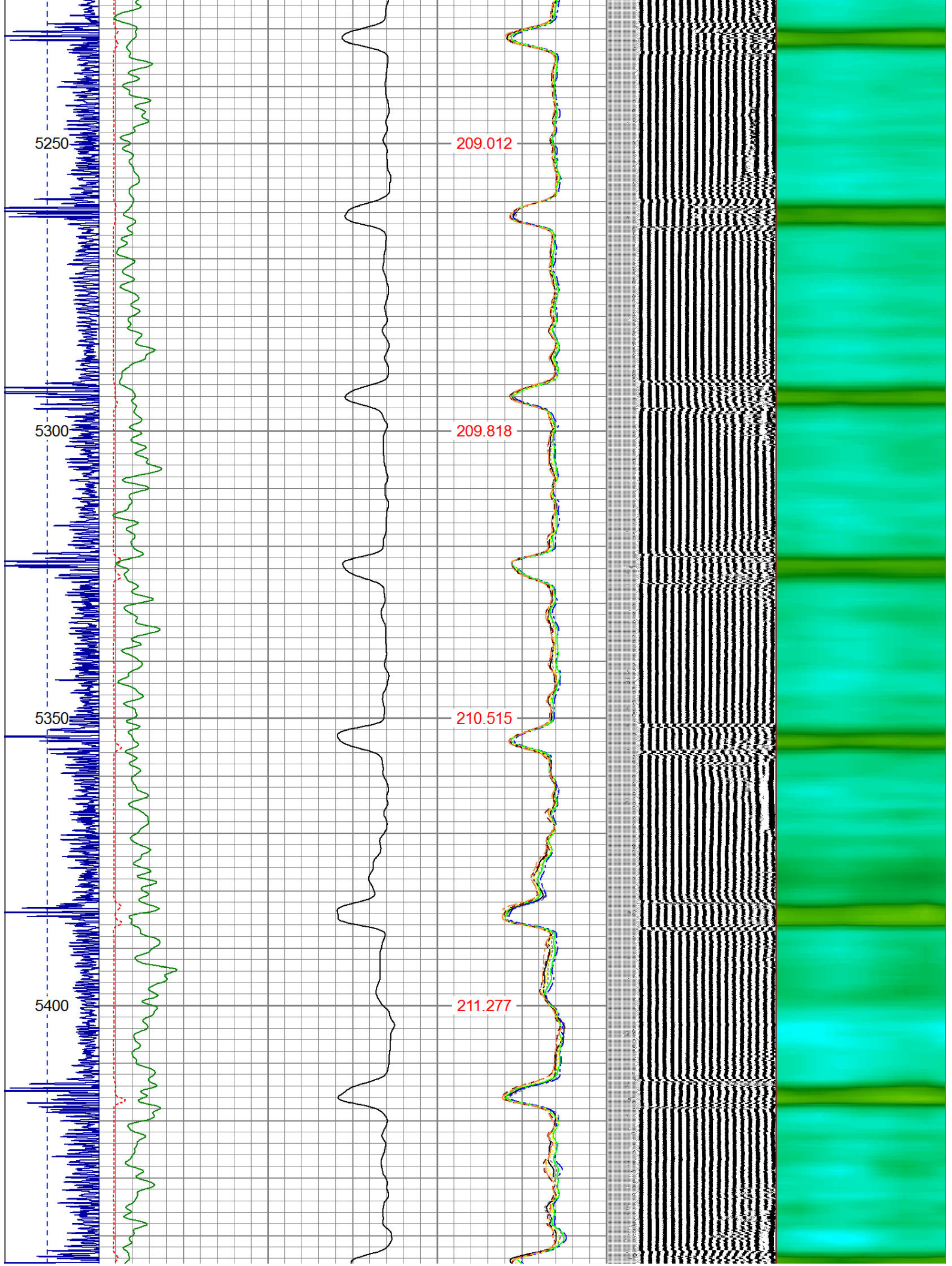


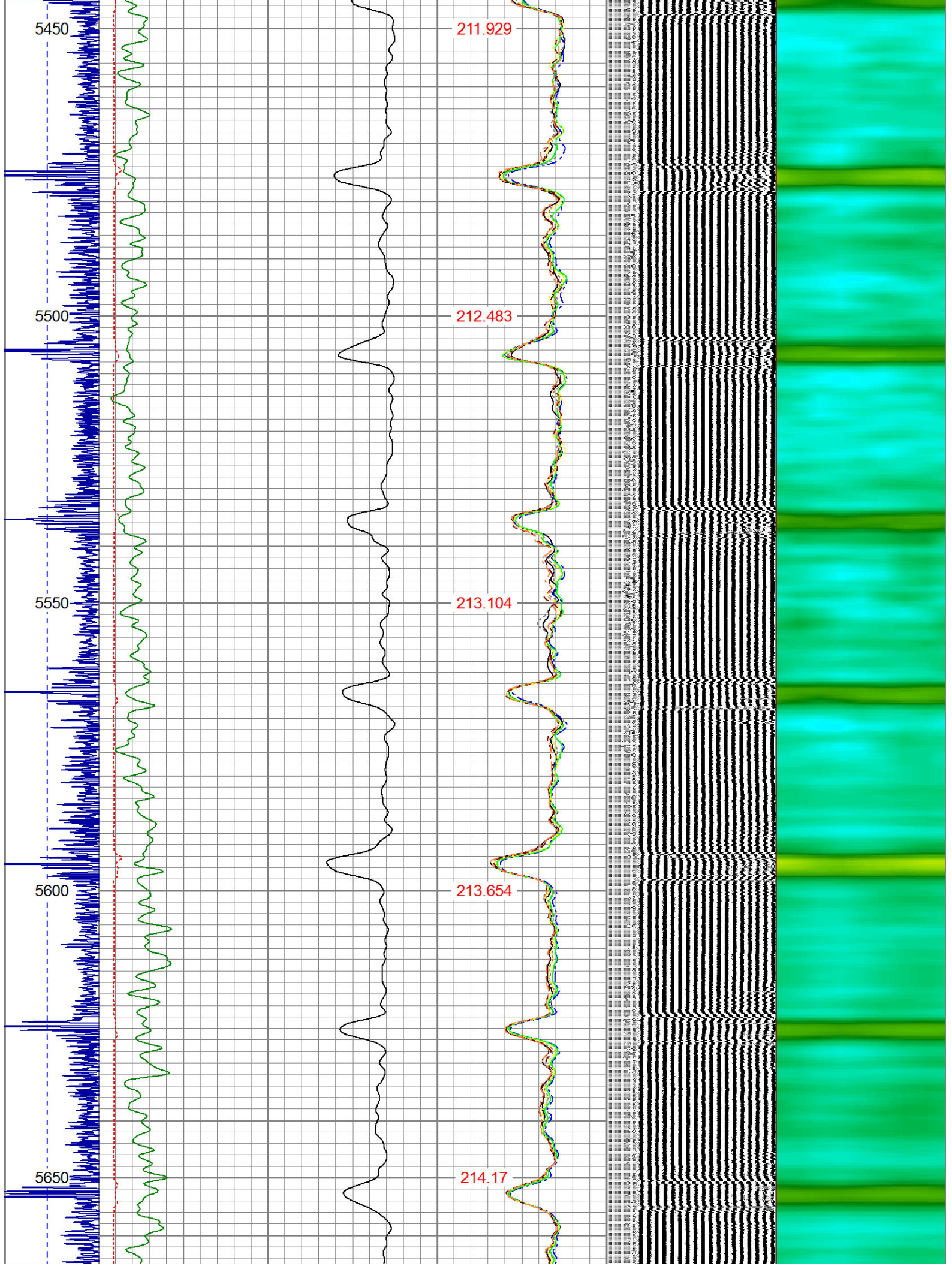


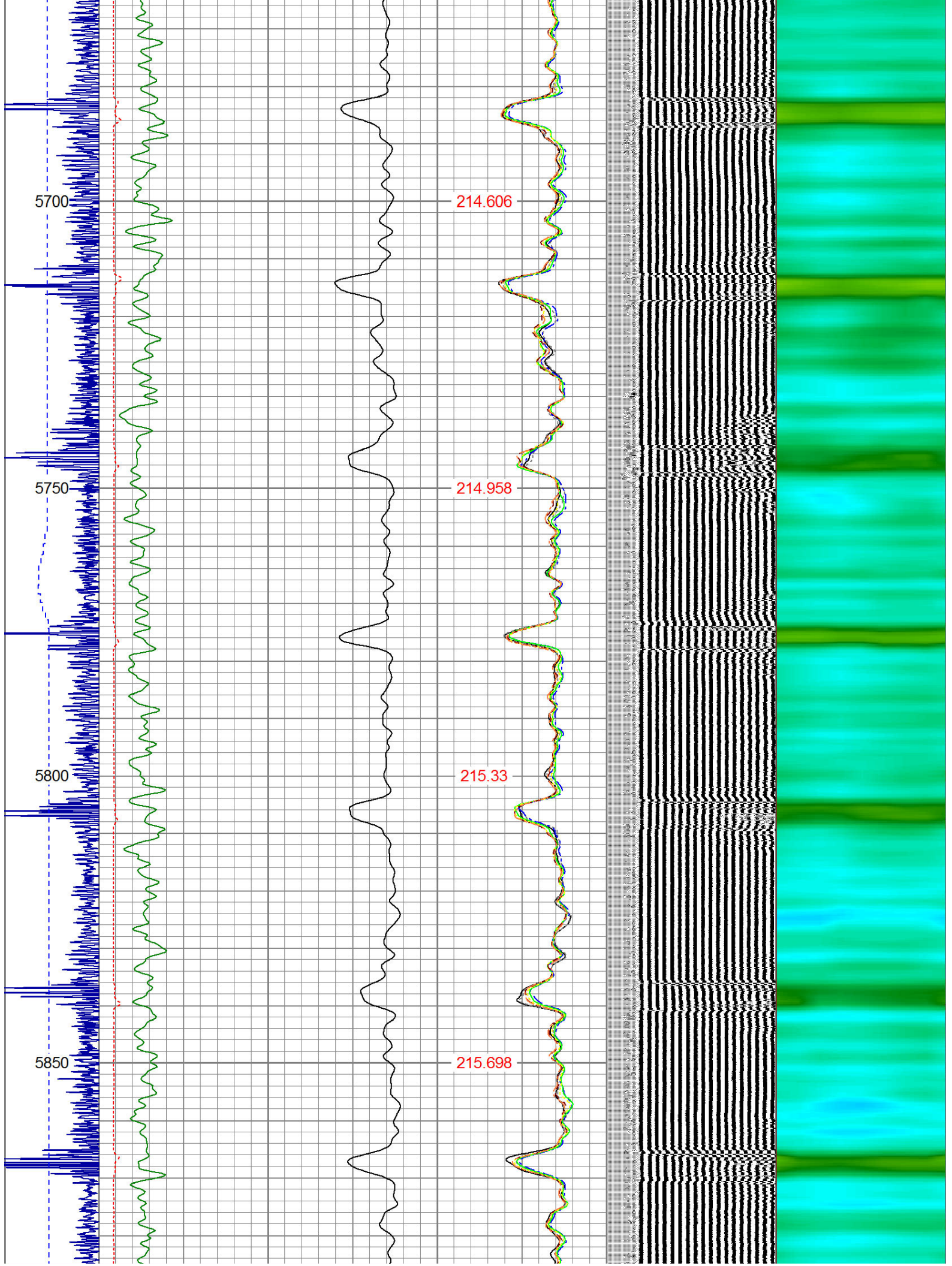


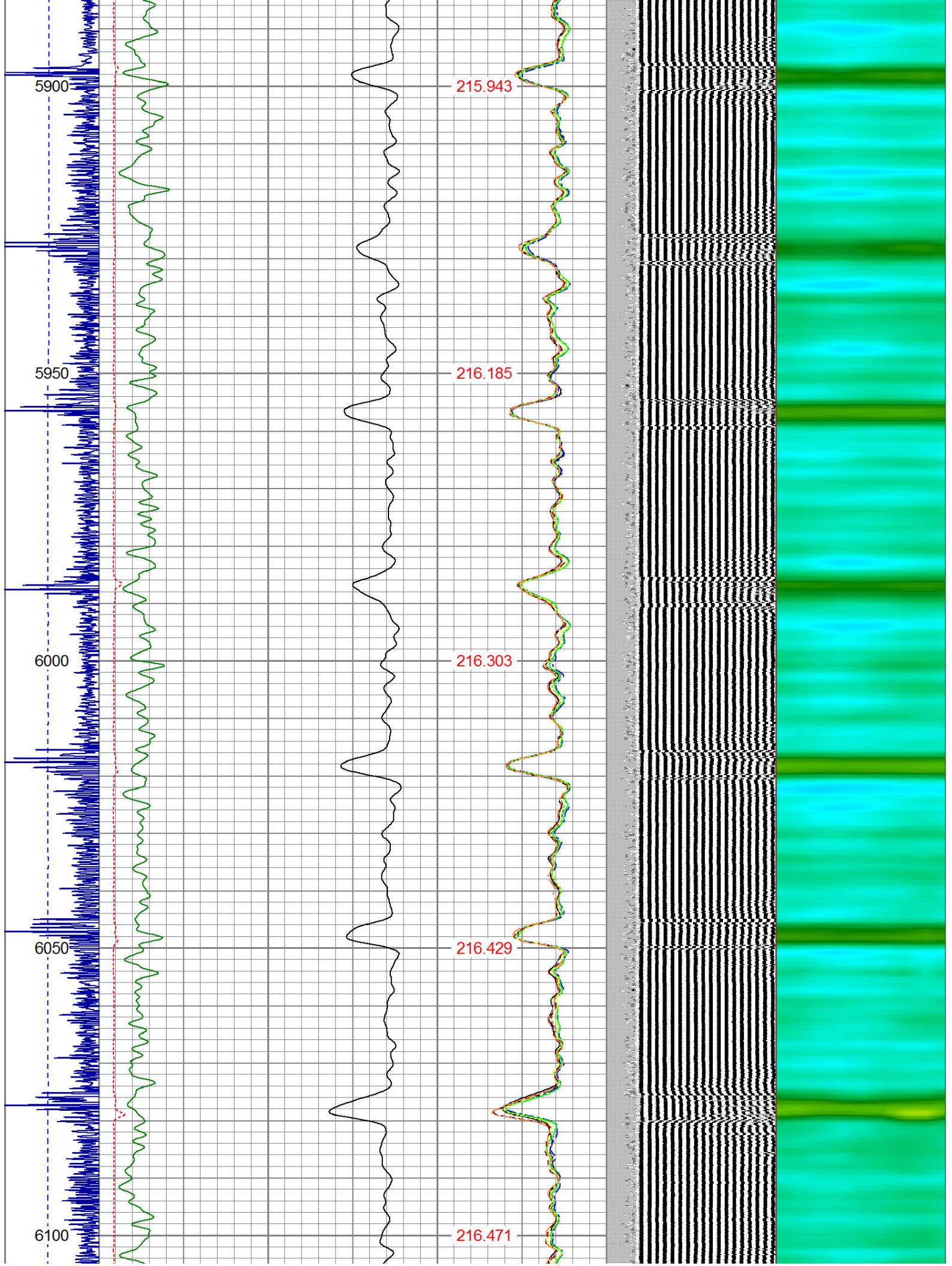


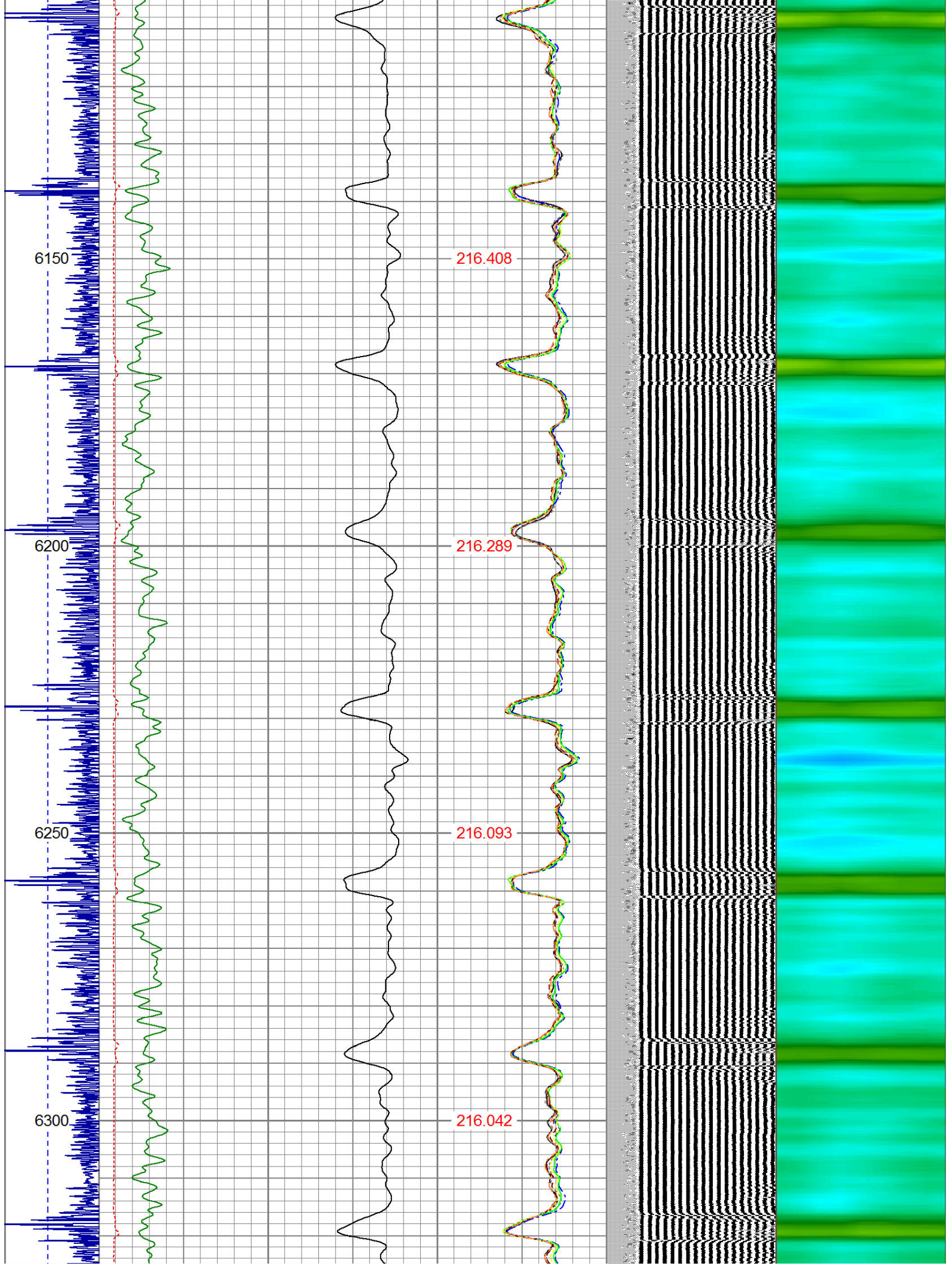


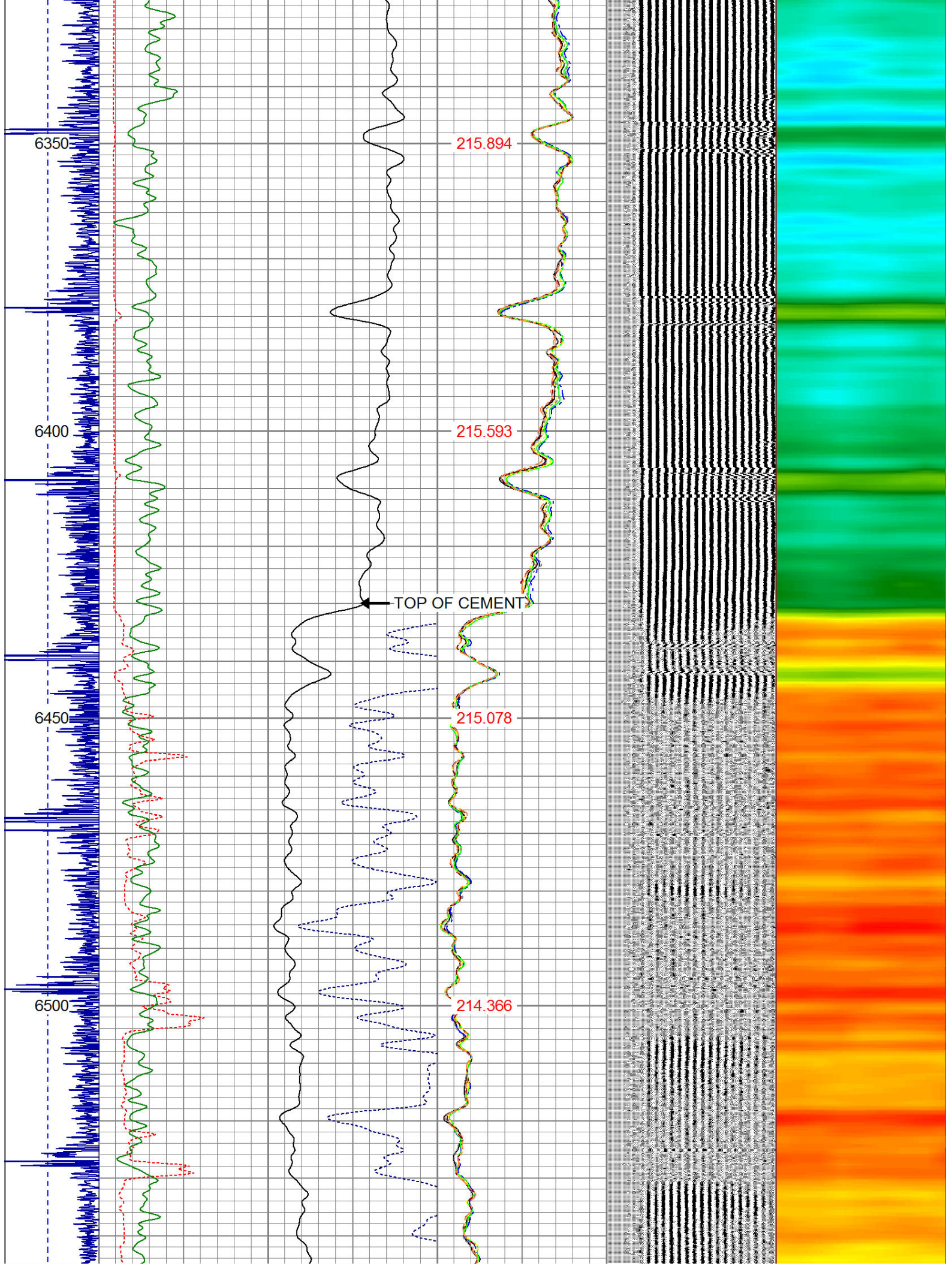


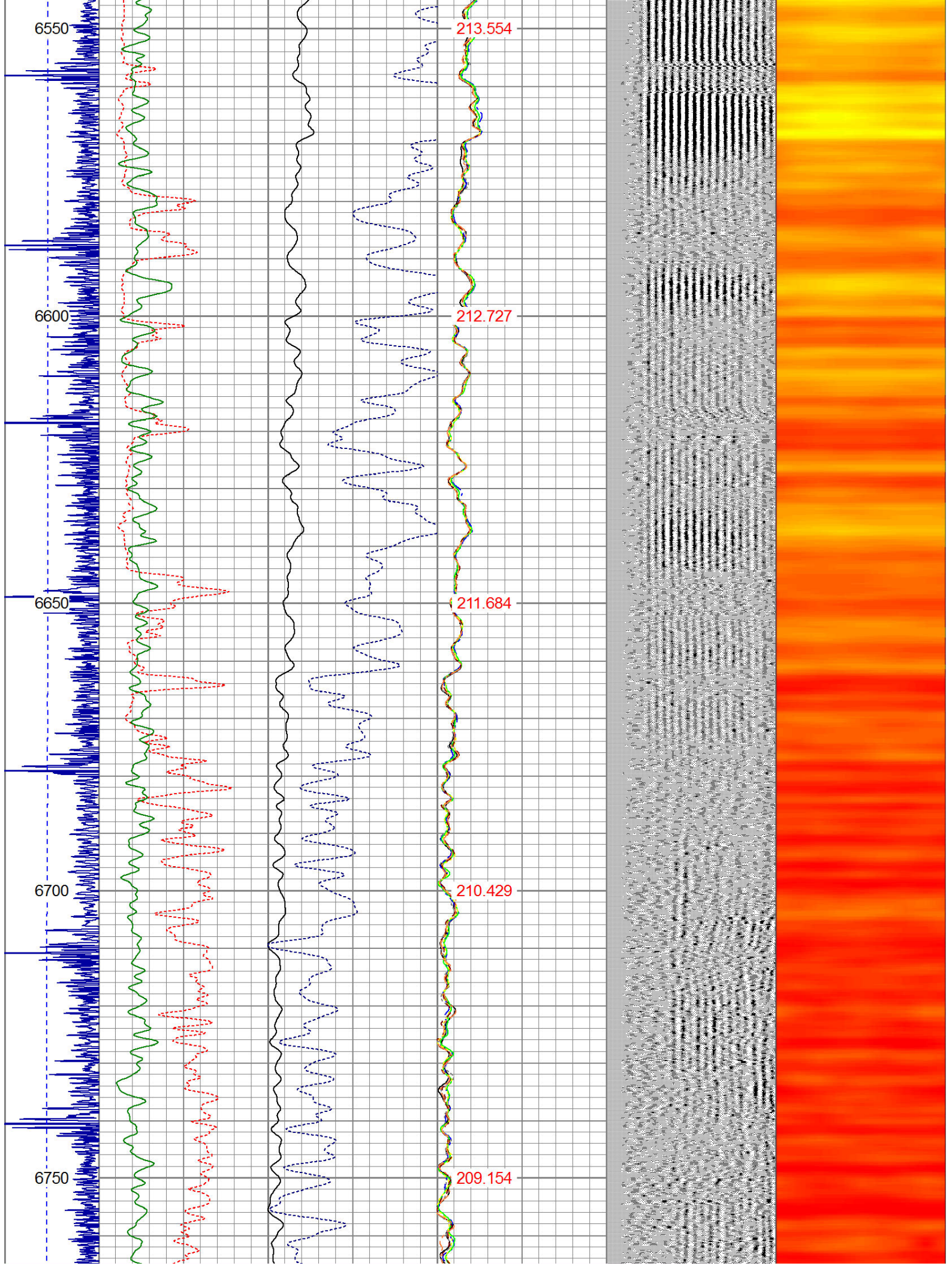


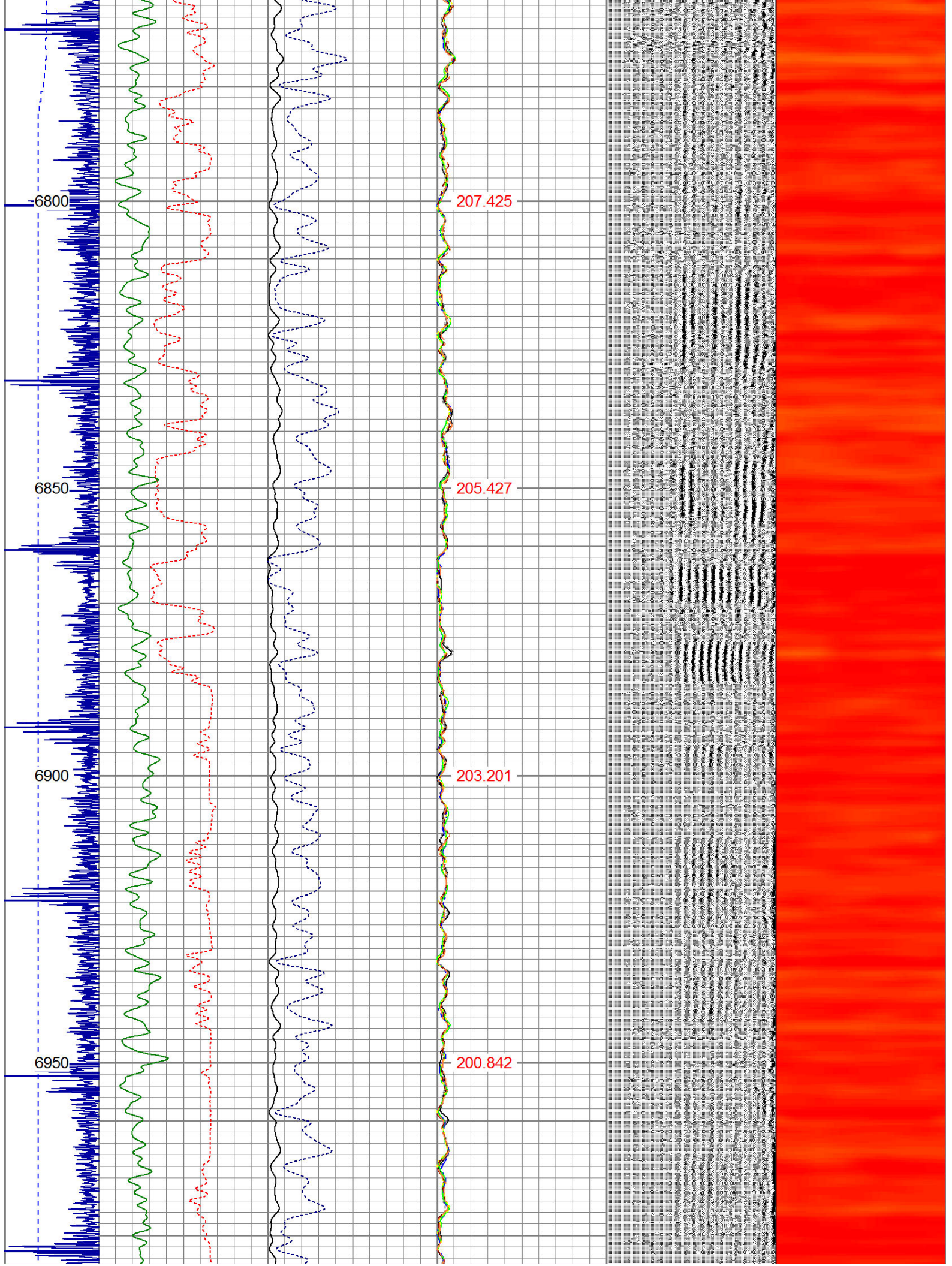


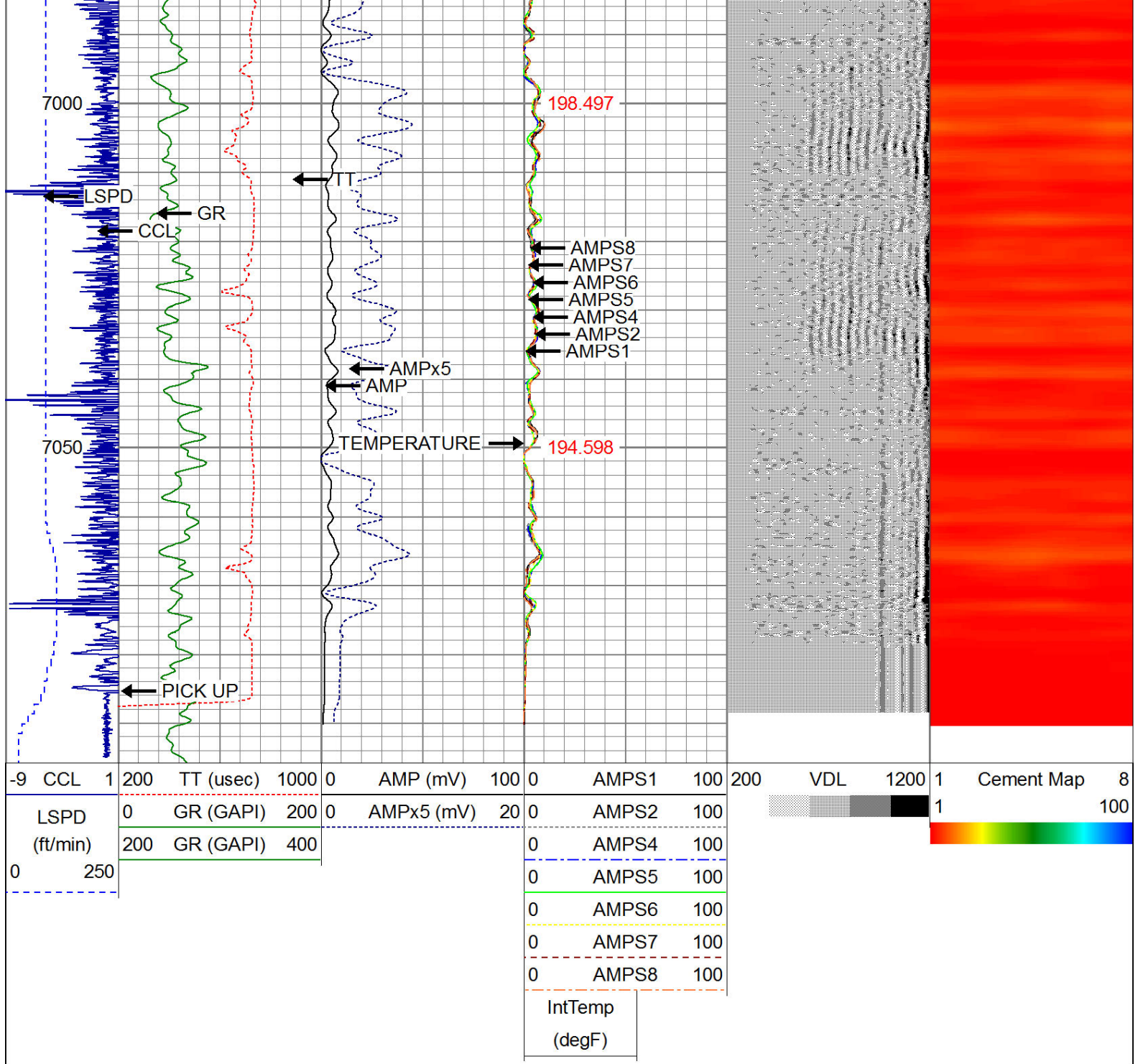












WARRIOR
ENERGY SERVICES

Company KERR McGEE OIL AND GAS

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Field WATTENBERG

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State CO