



RADIAL CEMENT BOND LOG
GAMMA RAY
CCL

Company		Kerr McGee Oil & Gas					
Well		HSR NIALL 13-7A					
Field		Wattenberg					
County		Weld					
State		CO					
Location:		API # : 05-123-15044					
Permanent Datum		GL					
Log Measured From		KB 11'					
Drilling Measured From		KB					
LAT 40.23450 LONG -104.71340		SW/SW					
SEC 7 TWP 3N RGE 65W		Elevation 5015'					
Other Services		K.B. 5026'					
		D.F. 5025'					
		G.L. 5015'					
Date		4-6-2015					
Run Number		ONE					
Depth Driller		8050'					
Depth Logger		6682'					
Bottom Logged Interval		6679'					
Top Log Interval		SURFACE					
Open Hole Size		7 7/8					
Type Fluid		WATER					
Density / Viscosity		1.0					
Max. Recorded Temp.		210					
Estimated Cement Top		672'					
Time Well Ready		NA					
Time Logger on Bottom		NA					
Equipment Number		7770					
Location		GREELEY					
Recorded By		A.STEERMAN					
Witnessed By		R.VIERA					
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size		Wgt/Ft		Top		Bottom
Surface String	8 5/8		24#		0		656'
Prot. String							
Production String	4 1/2		11.6#		0		7579'
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

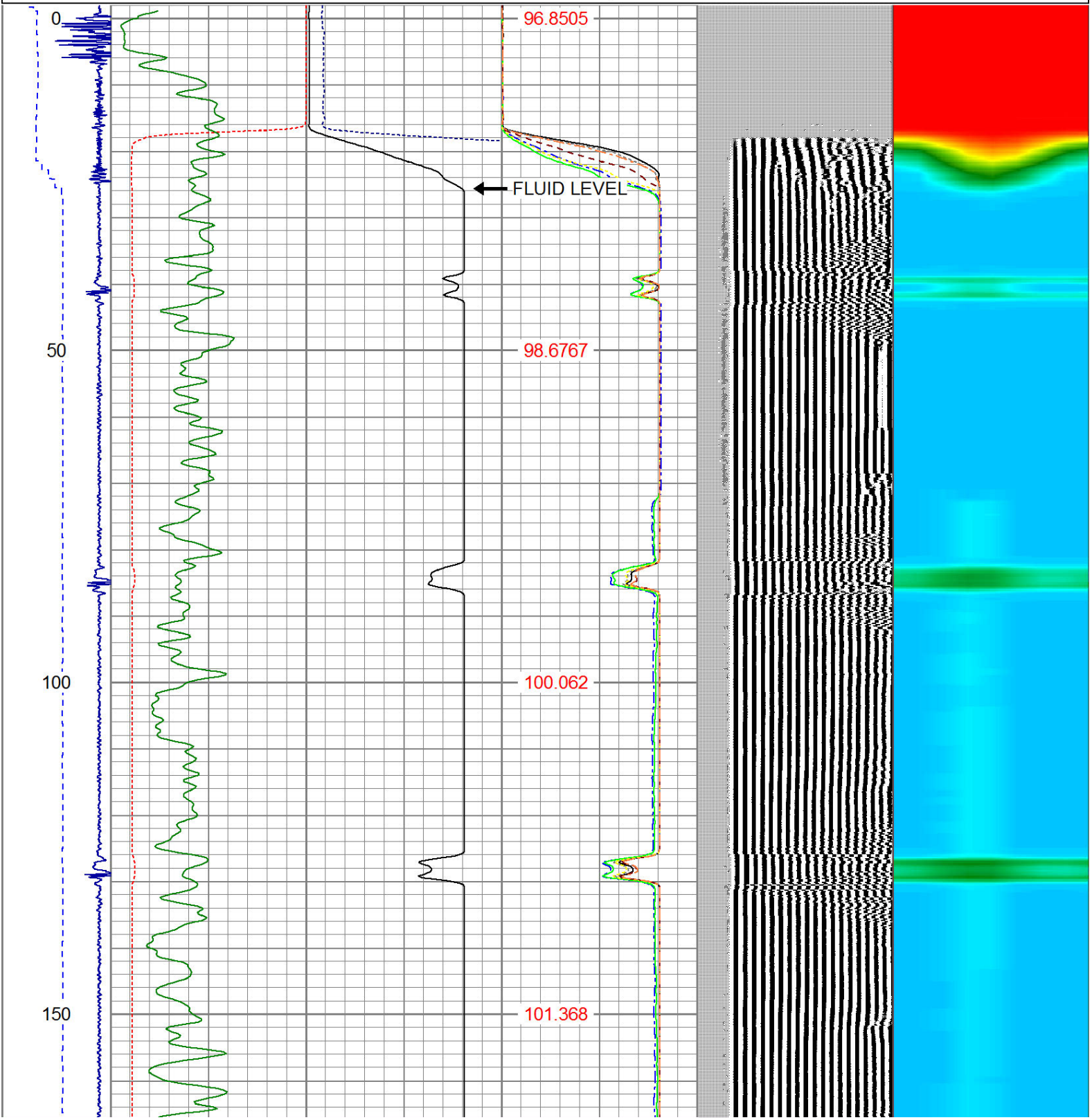
NOT CORROLATED
WELL LOADED BEFORE ARIVING
RAN CBL TO VERIFY CEMENT.

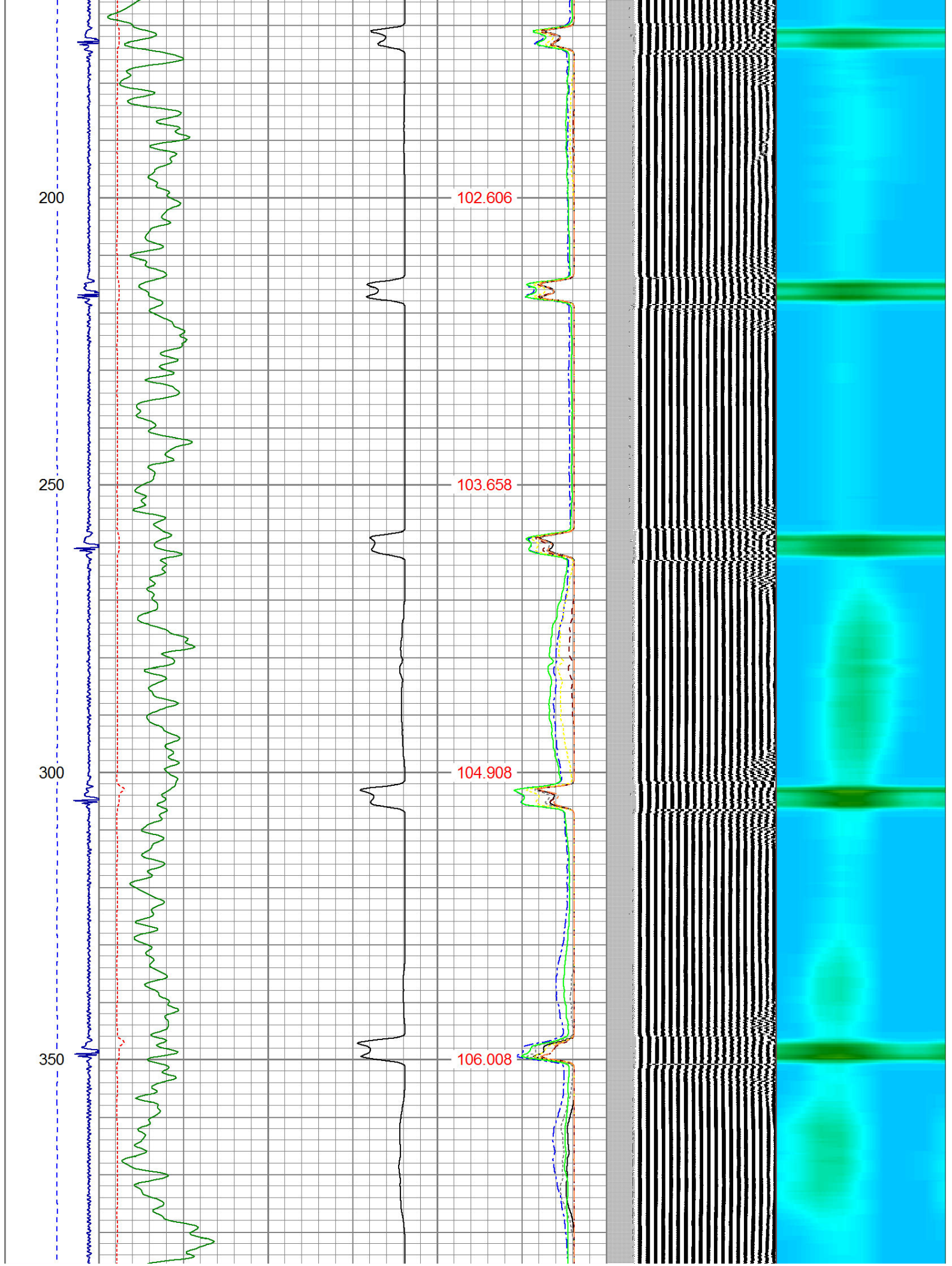
THANK YOU FOR USING WARRIOR ENERGY!

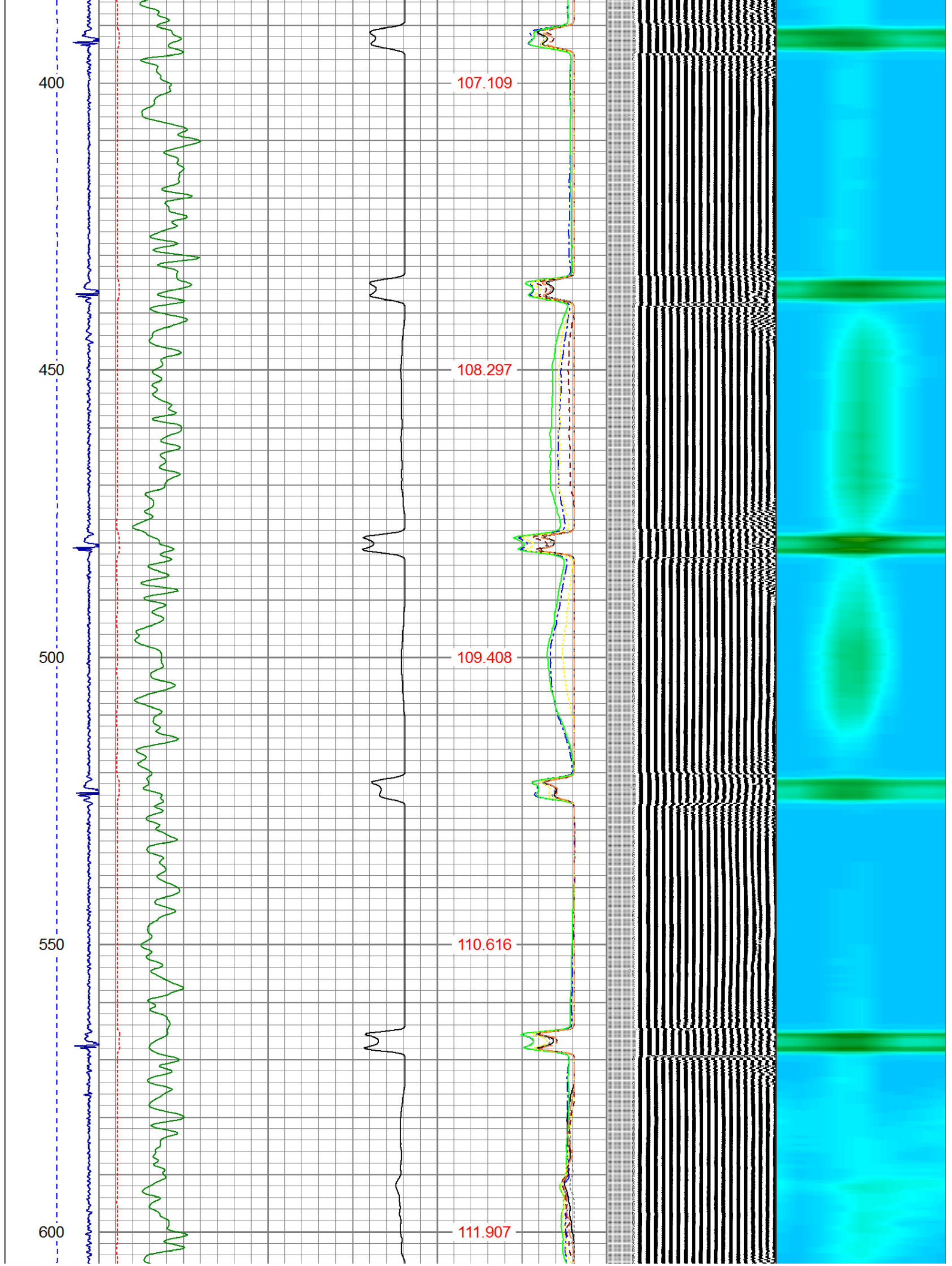
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

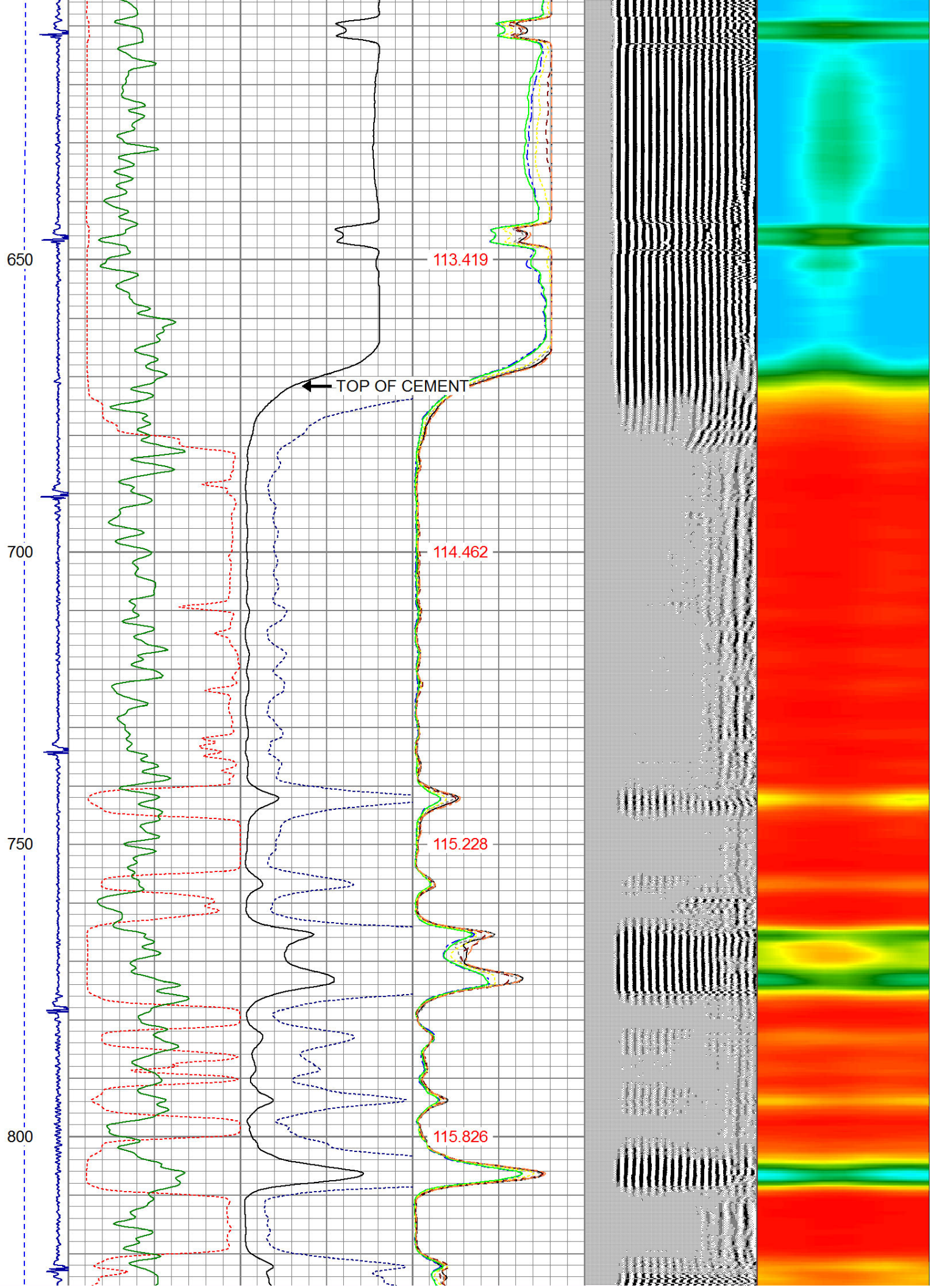
			PTS275	2.83	2.75	
HEADVOLT	16.13					
IntTemp	14.71					
WVF3FT	11.46		RBT-Probe (Base)	8.92	2.75	90.00
WVFCAL	11.46		Probe Radii Bond Tool with Digital Telemetry			
WVFS1	11.46					
WVFS2	11.46					
WVFS3	11.46					
WVFS4	11.46					
WVFS5	11.46					
WVFS6	11.46					
WVFS7	11.46					
WVFS8	11.46					
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: hsr naill 13-7a.db: field/well/run1/pass2 Total Length: 18.96 ft Total Weight: 160.00 lb O.D. 2.75 in						

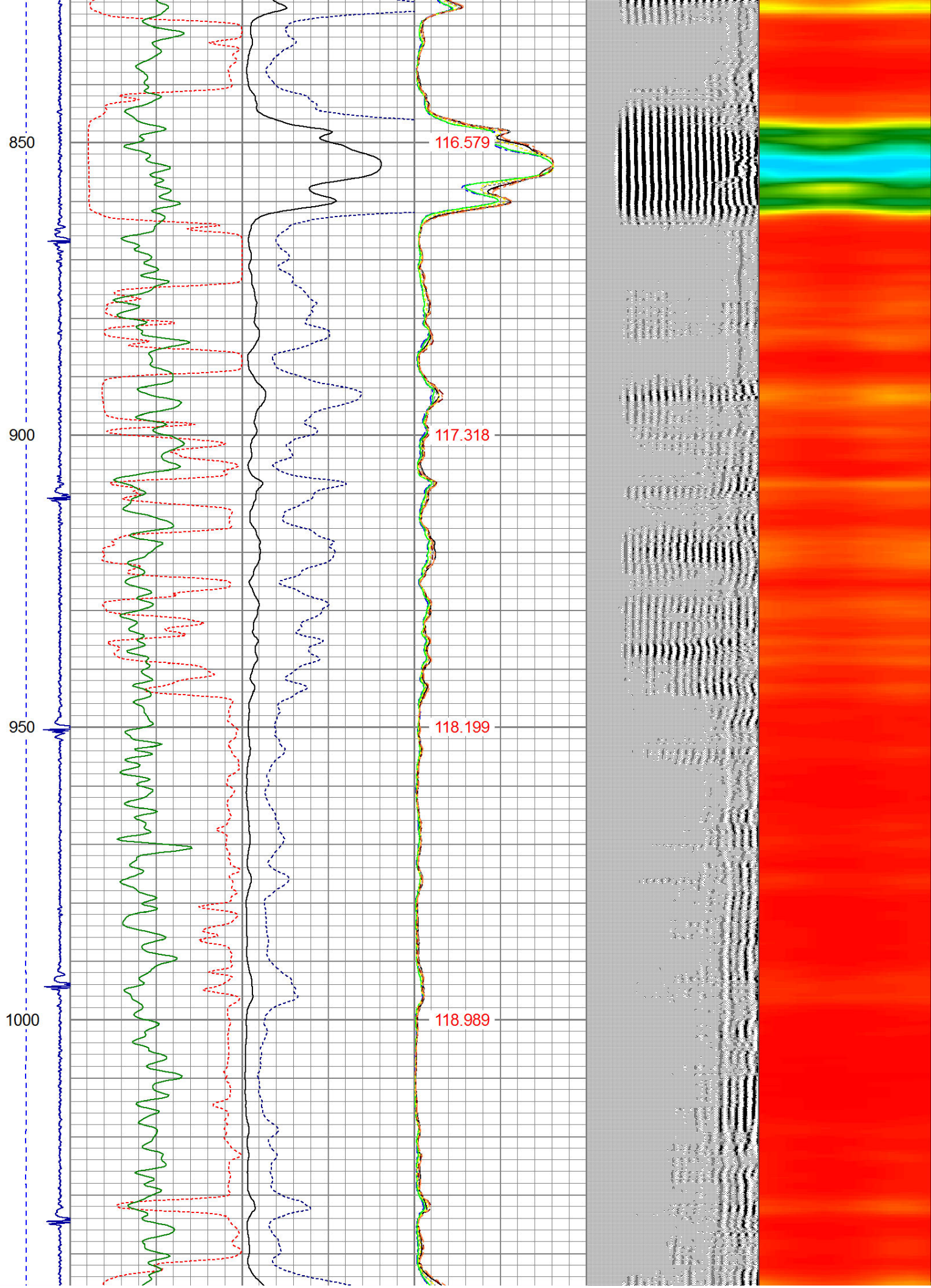
Dataset Creation: Mon Apr 06 07:15:53 2015 by Log Std Casedhole 09061																																
Charted by: Depth in Feet scaled 1:240																																
-9	CCL	1	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8															
LSPD (ft/min)	0		0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100																					
	200		200	GR (GAPI)	400			0	AMPS4	100																						
	0		250					0	AMPS5	100																						
										0	AMPS6	100																				
										0	AMPS7	100																				
										0	AMPS8	100																				
										IntTemp																						
										(degF)																						

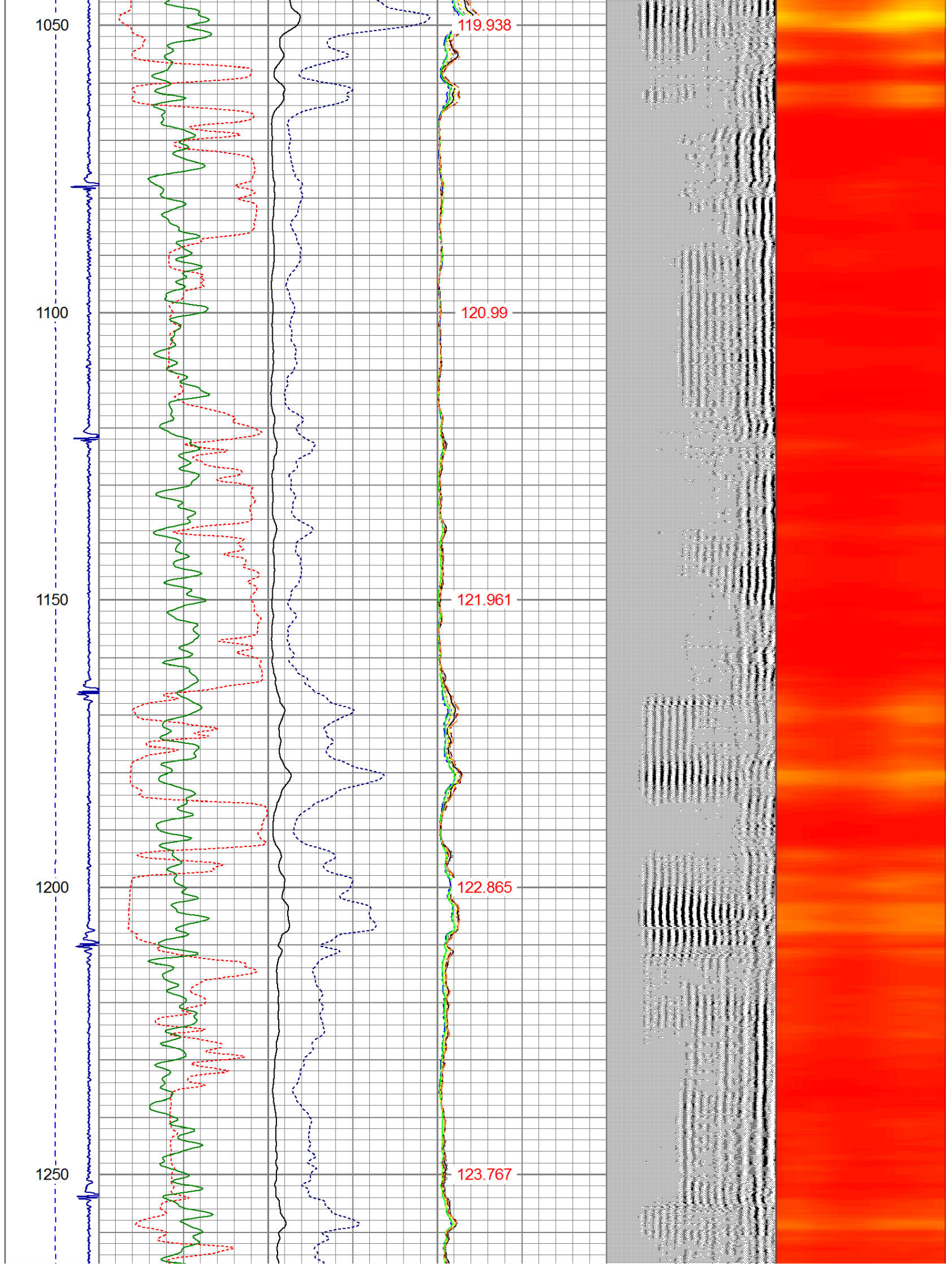












1300

1350

1400

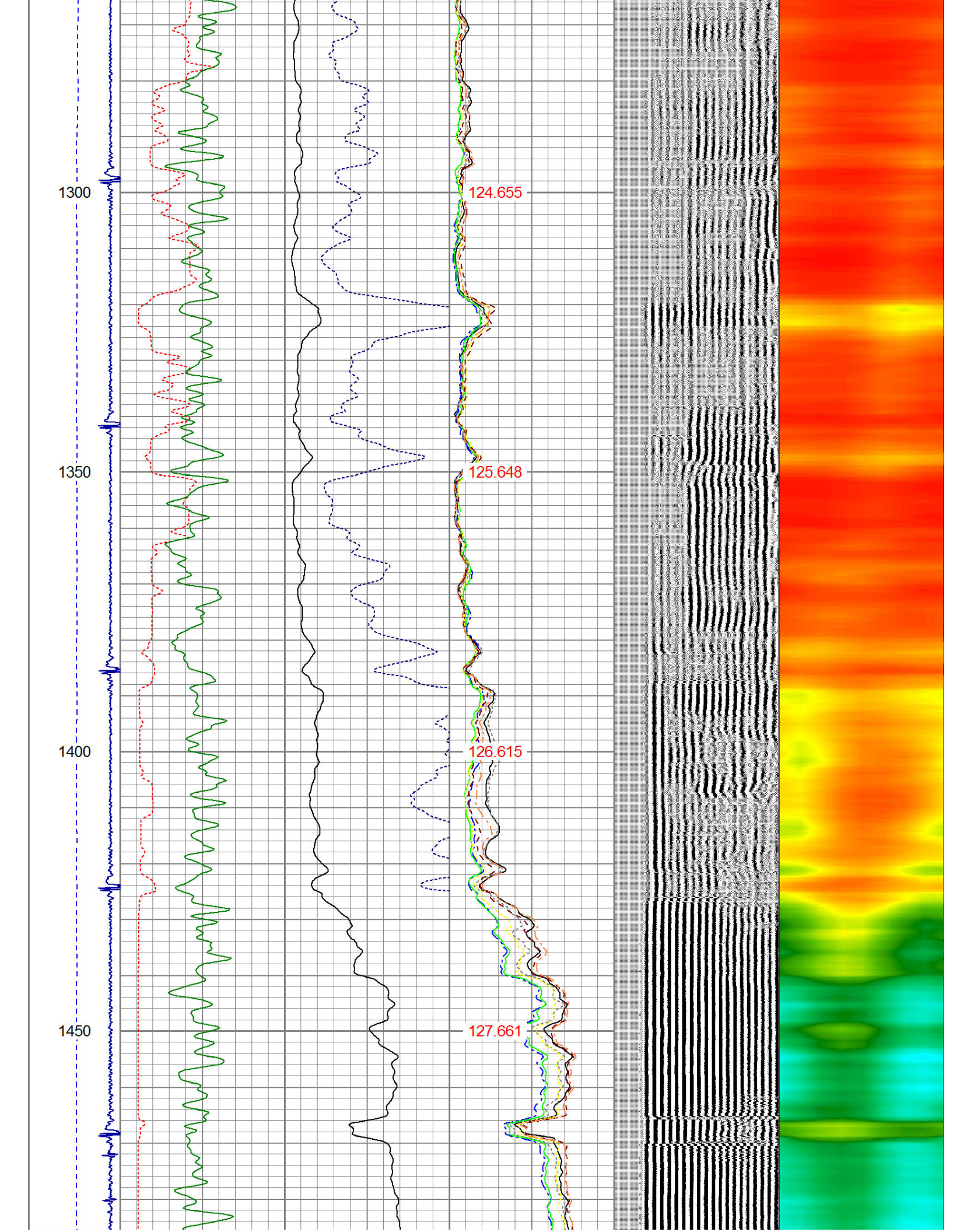
1450

124.655

125.648

126.615

127.661



1500

128.686

1550

129.897

1600

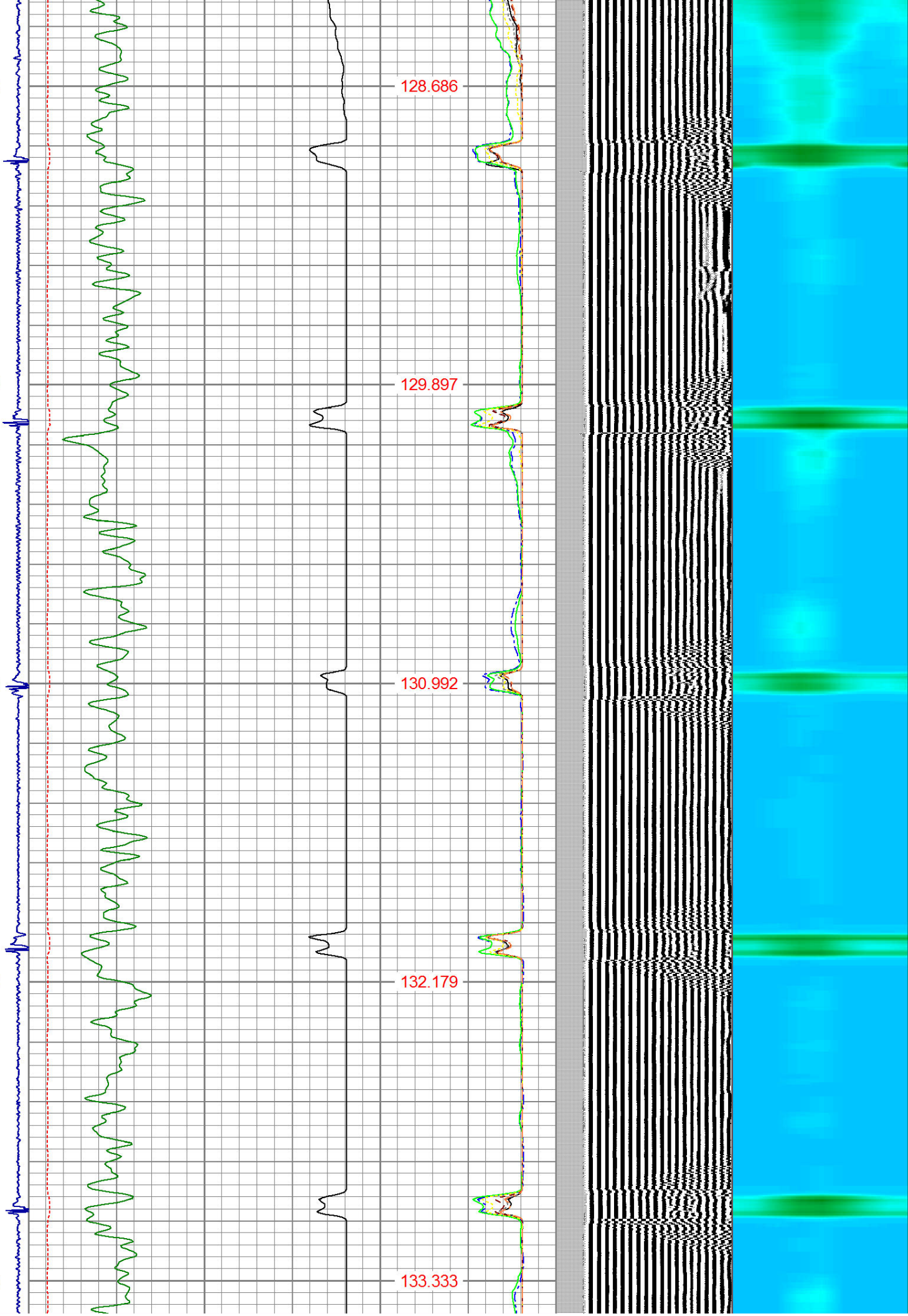
130.992

1650

132.179

1700

133.333



1750

1800

1850

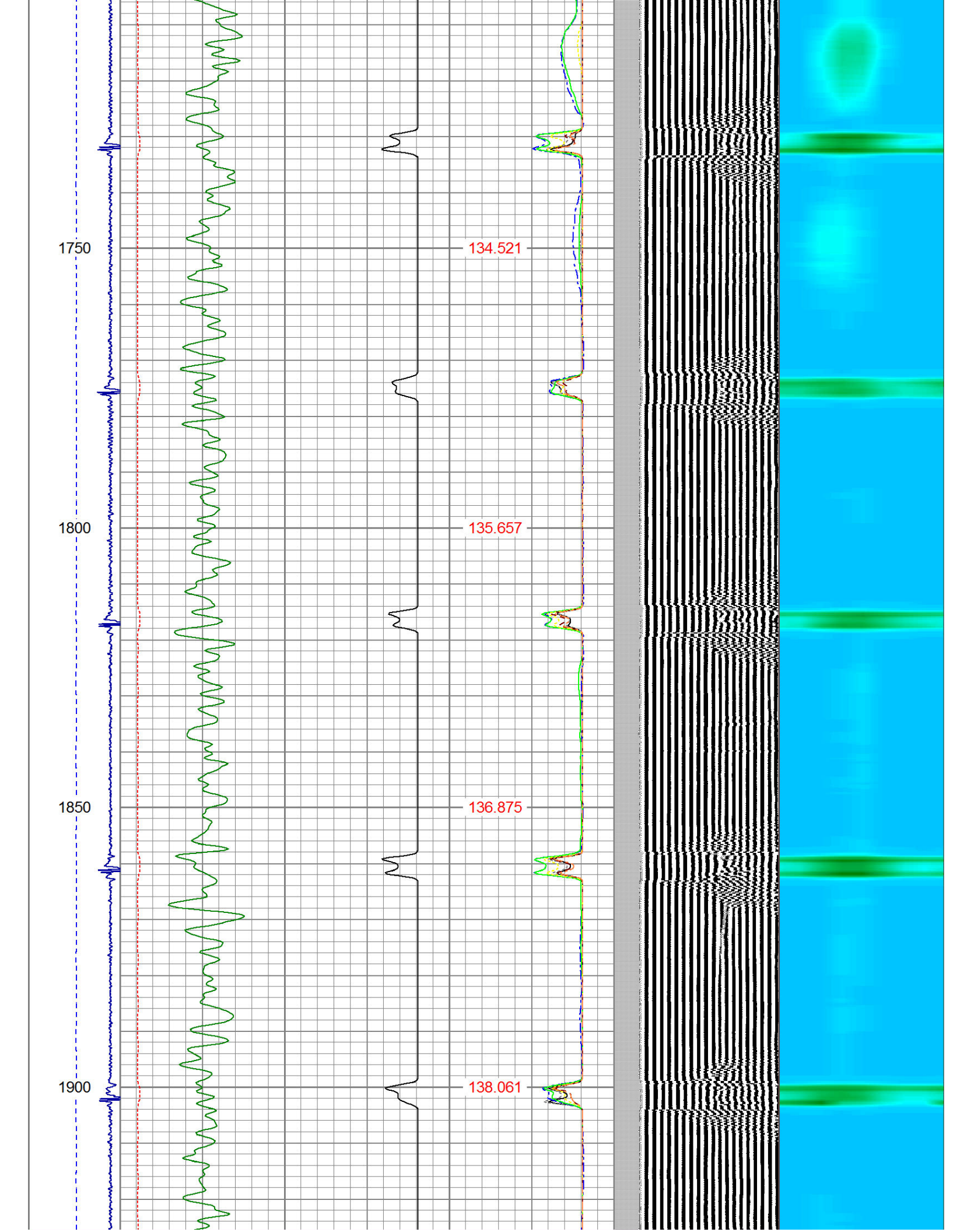
1900

134.521

135.657

136.875

138.061



1950

2000

2050

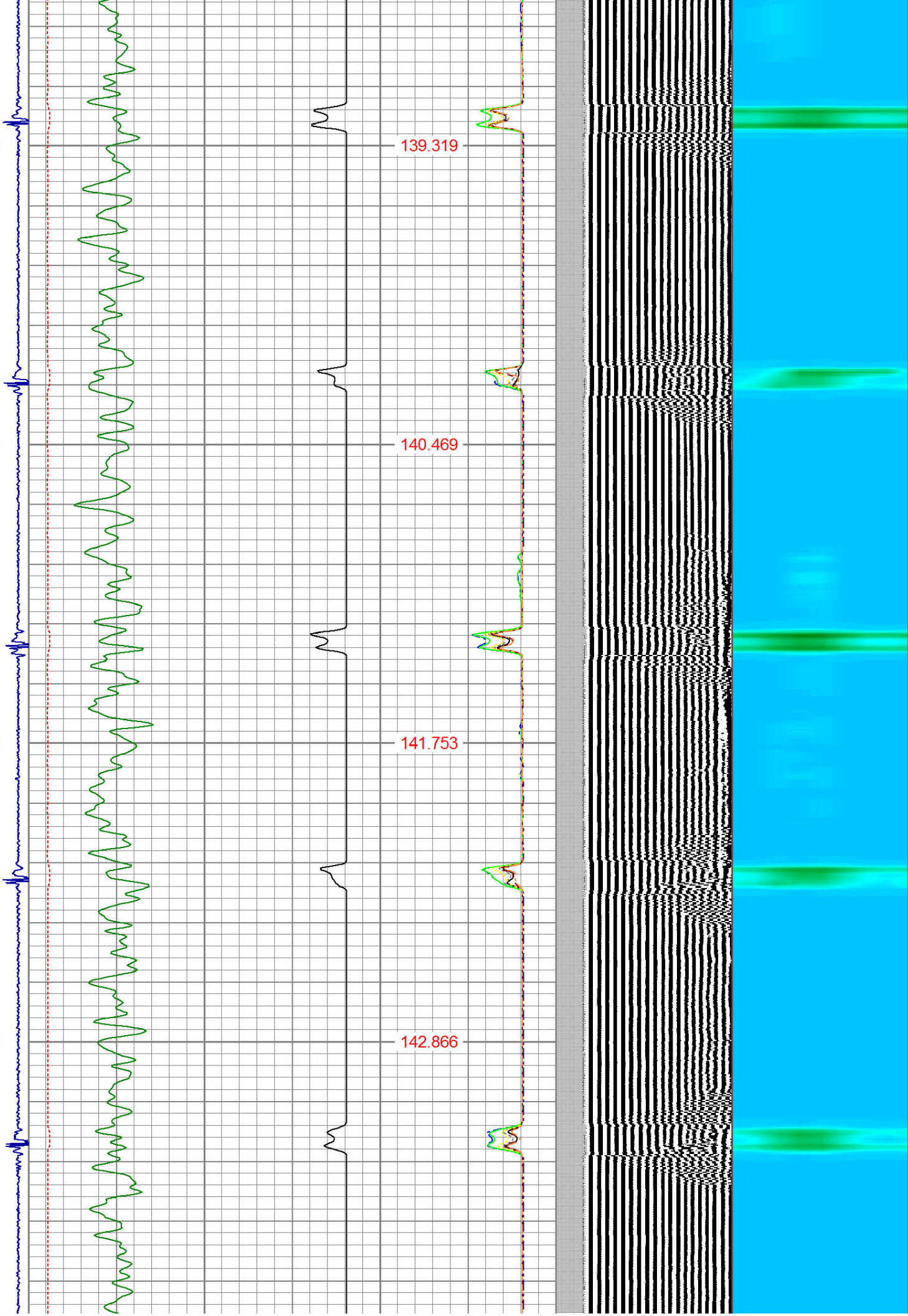
2100

139.319

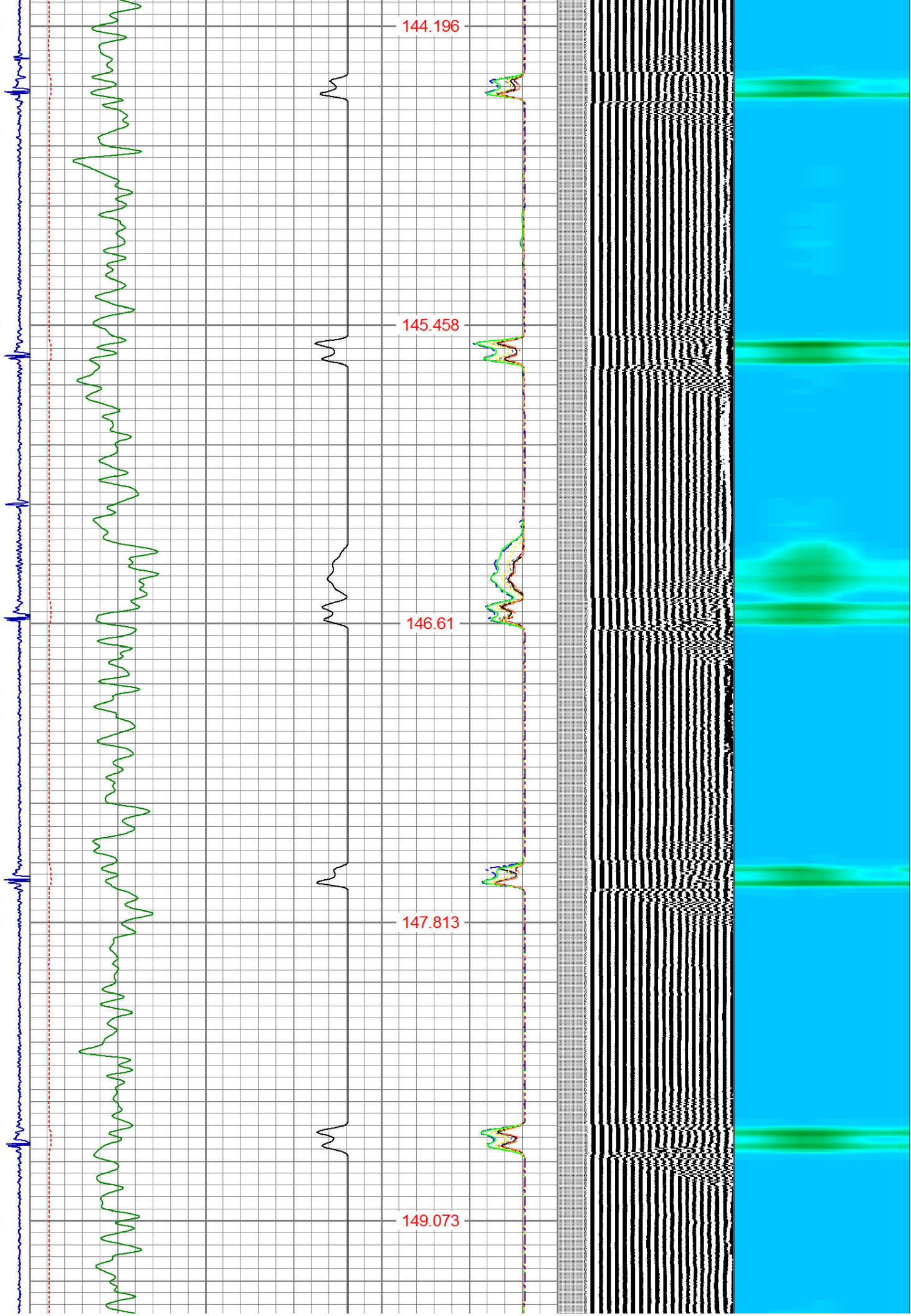
140.469

141.753

142.866



2150
2200
2250
2300
2350



2400

2450

2500

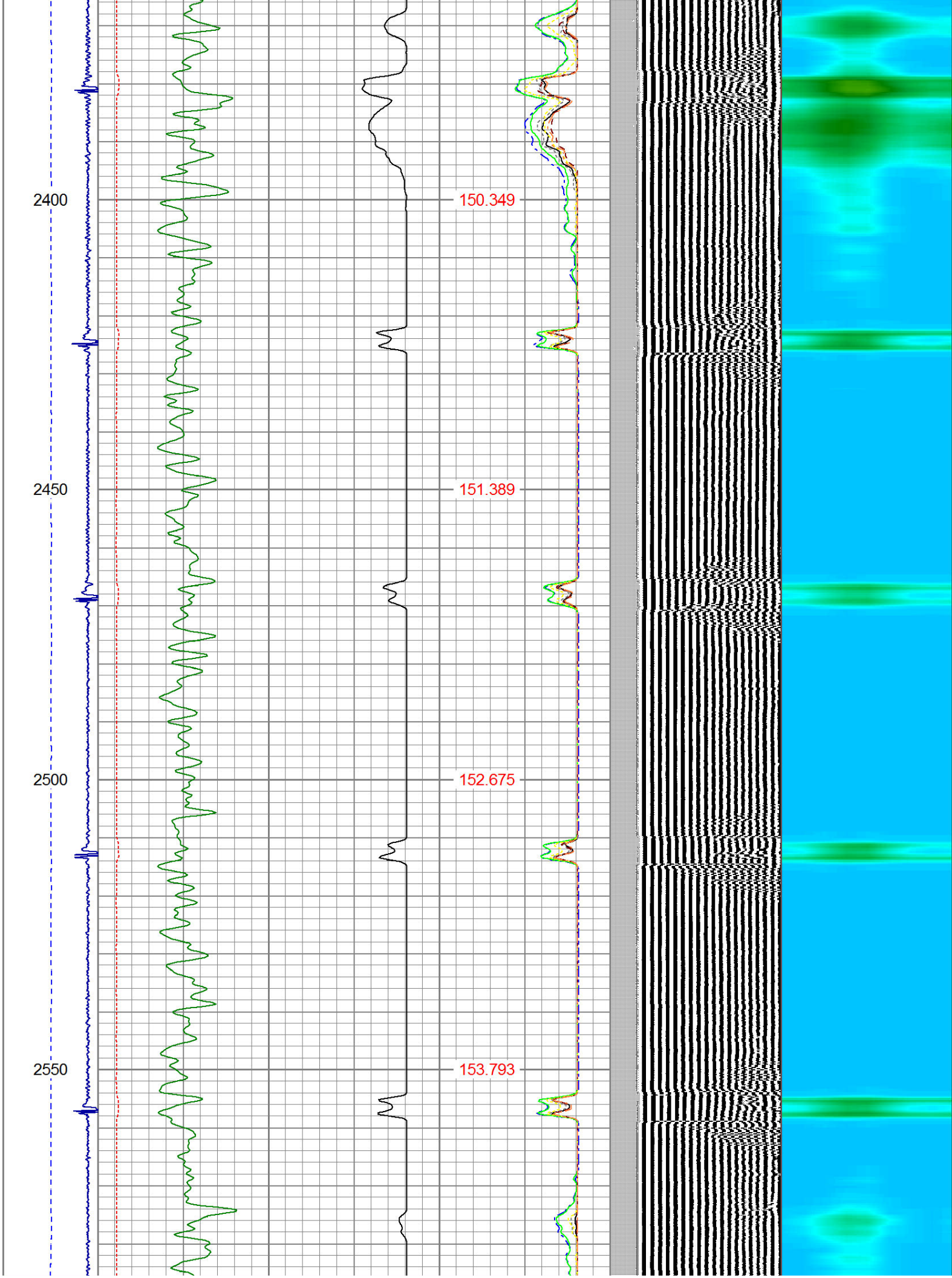
2550

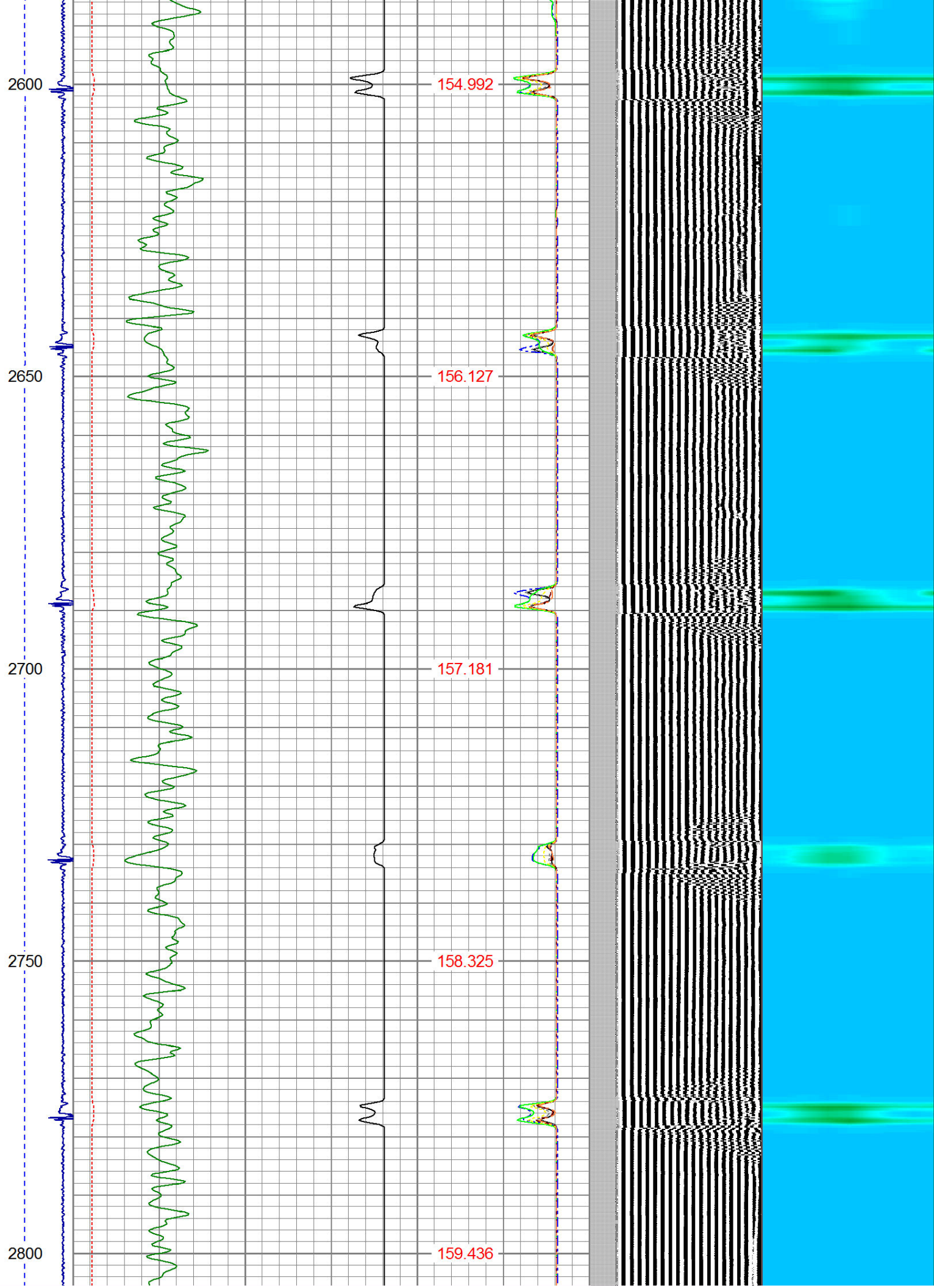
150.349

151.389

152.675

153.793





2850

2900

2950

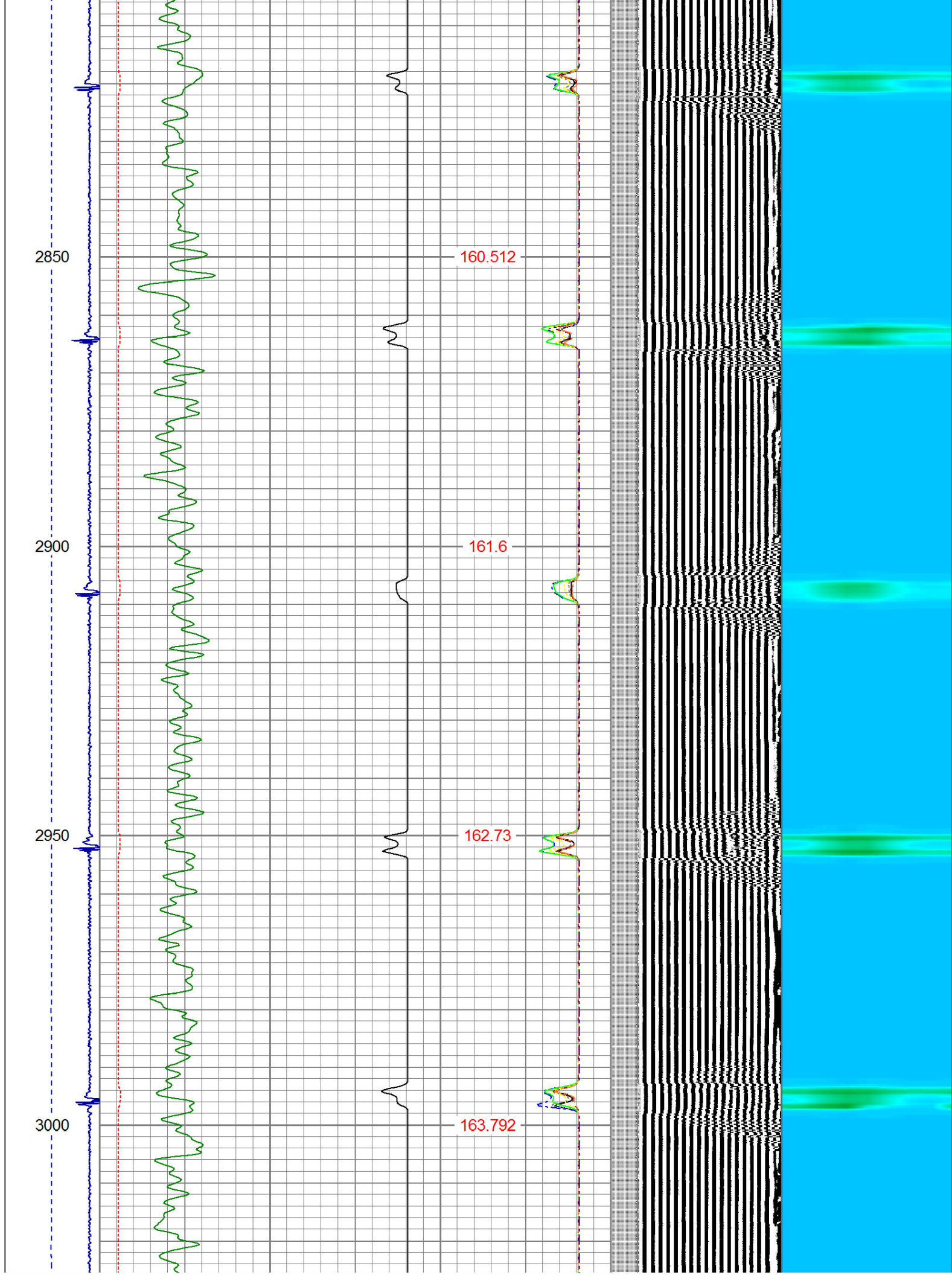
3000

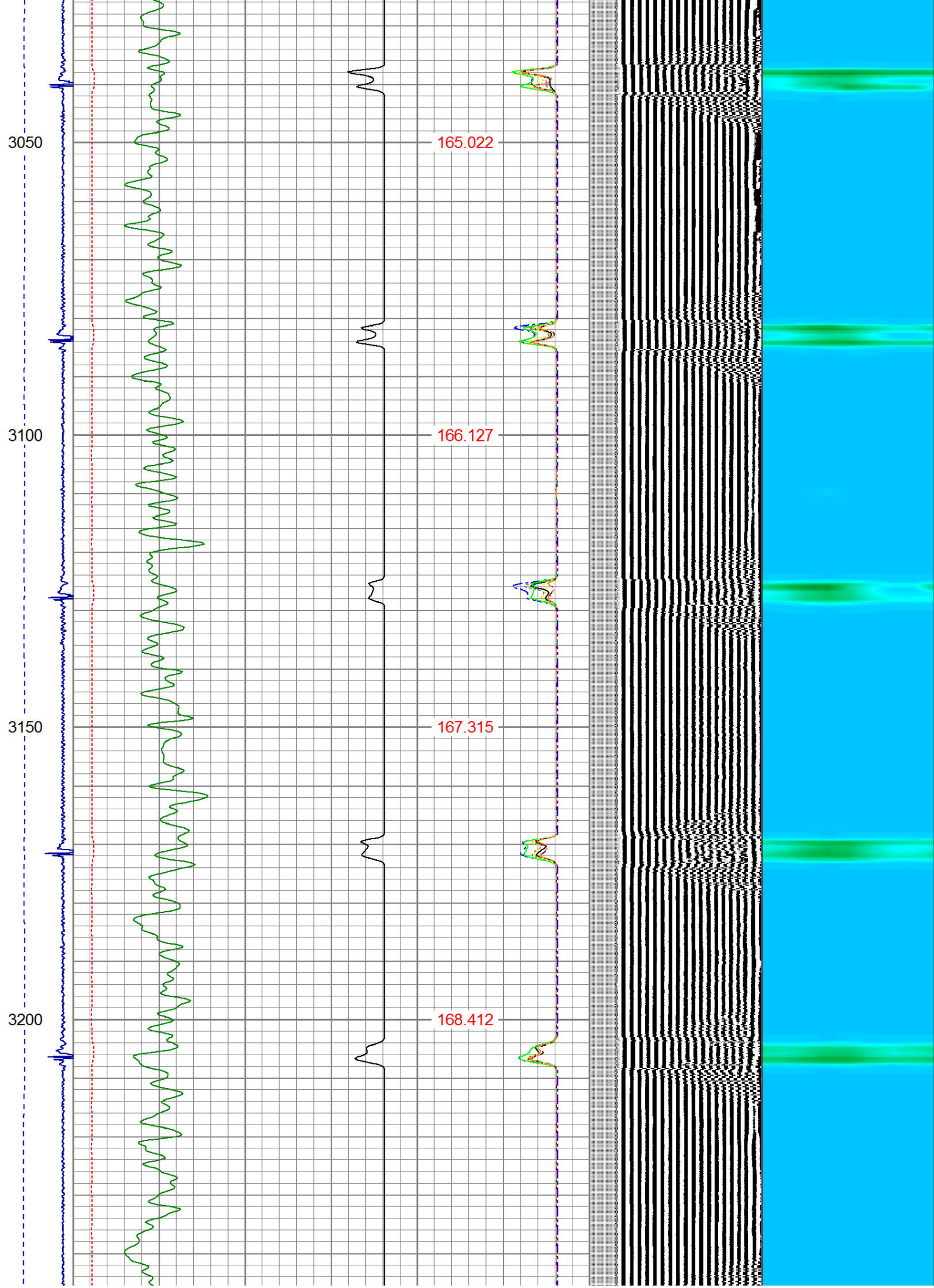
160.512

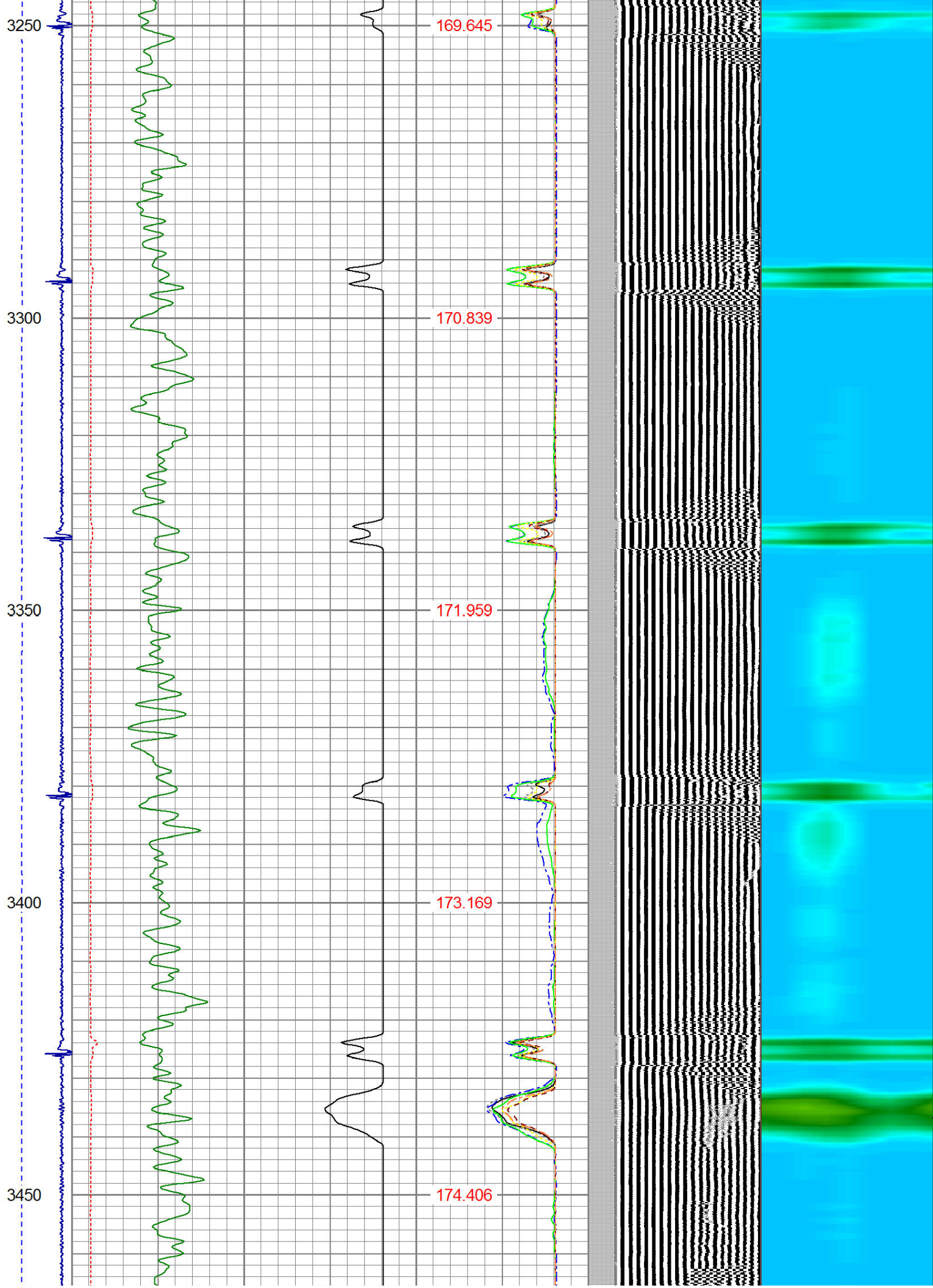
161.6

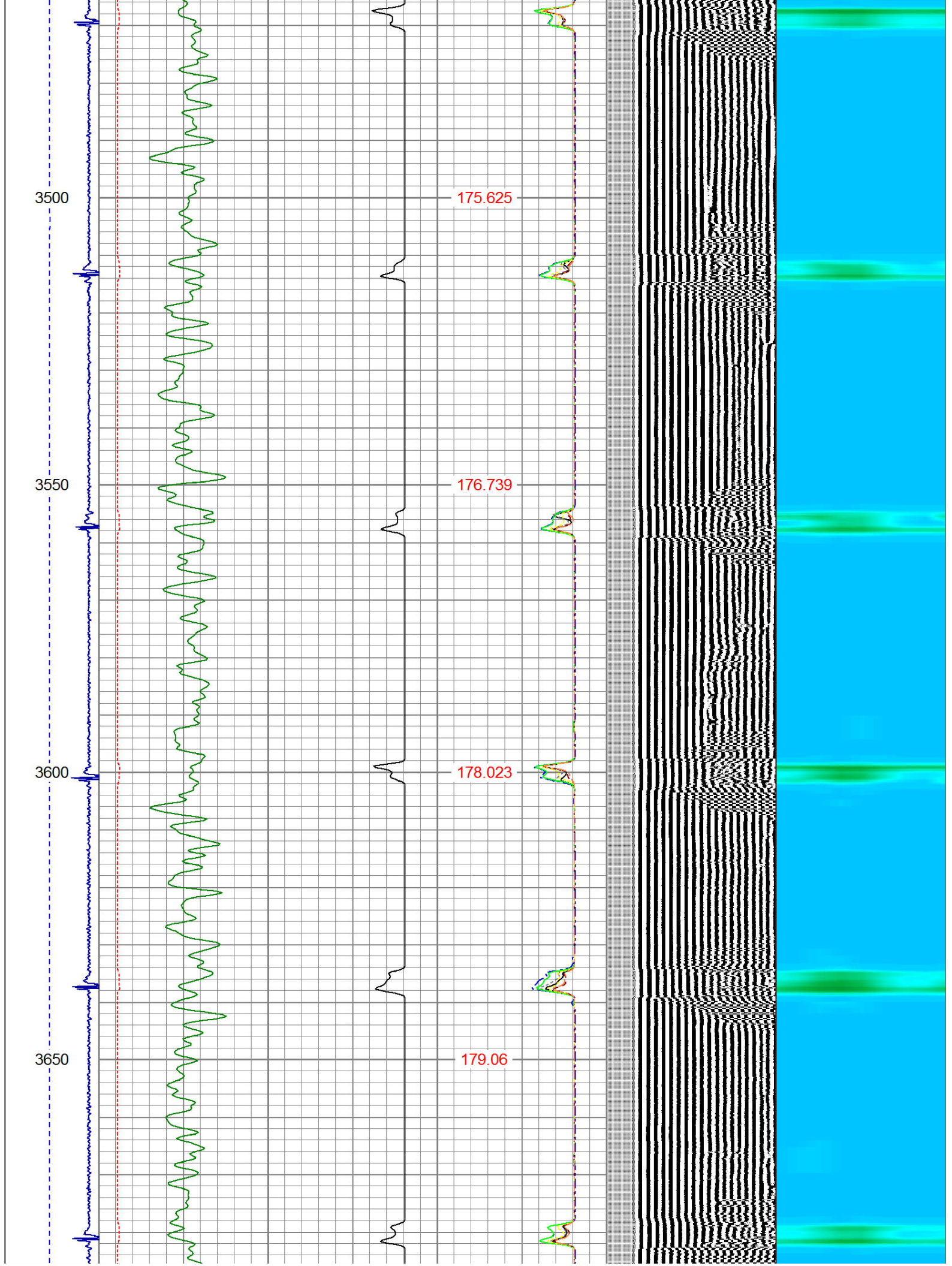
162.73

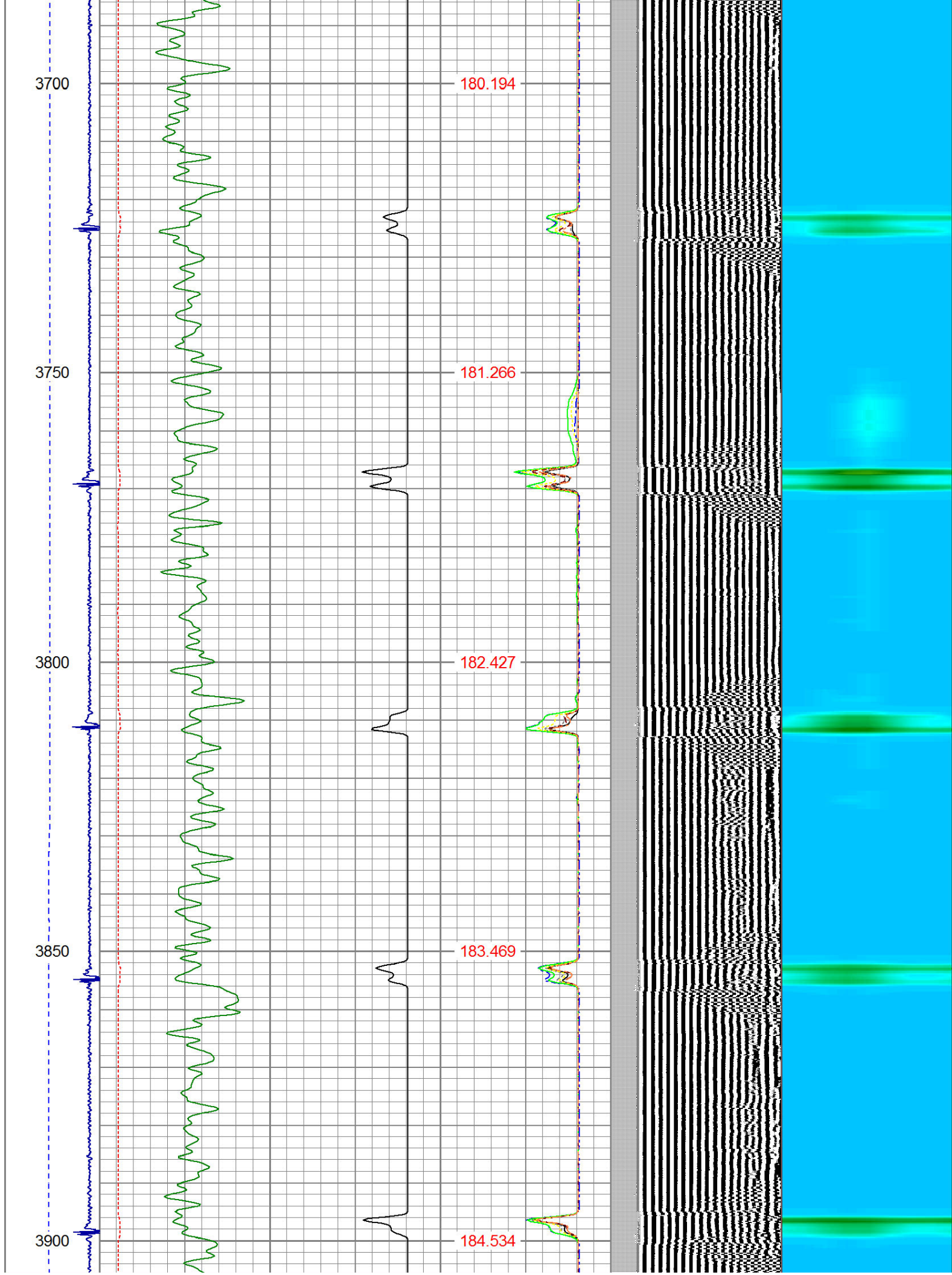
163.792

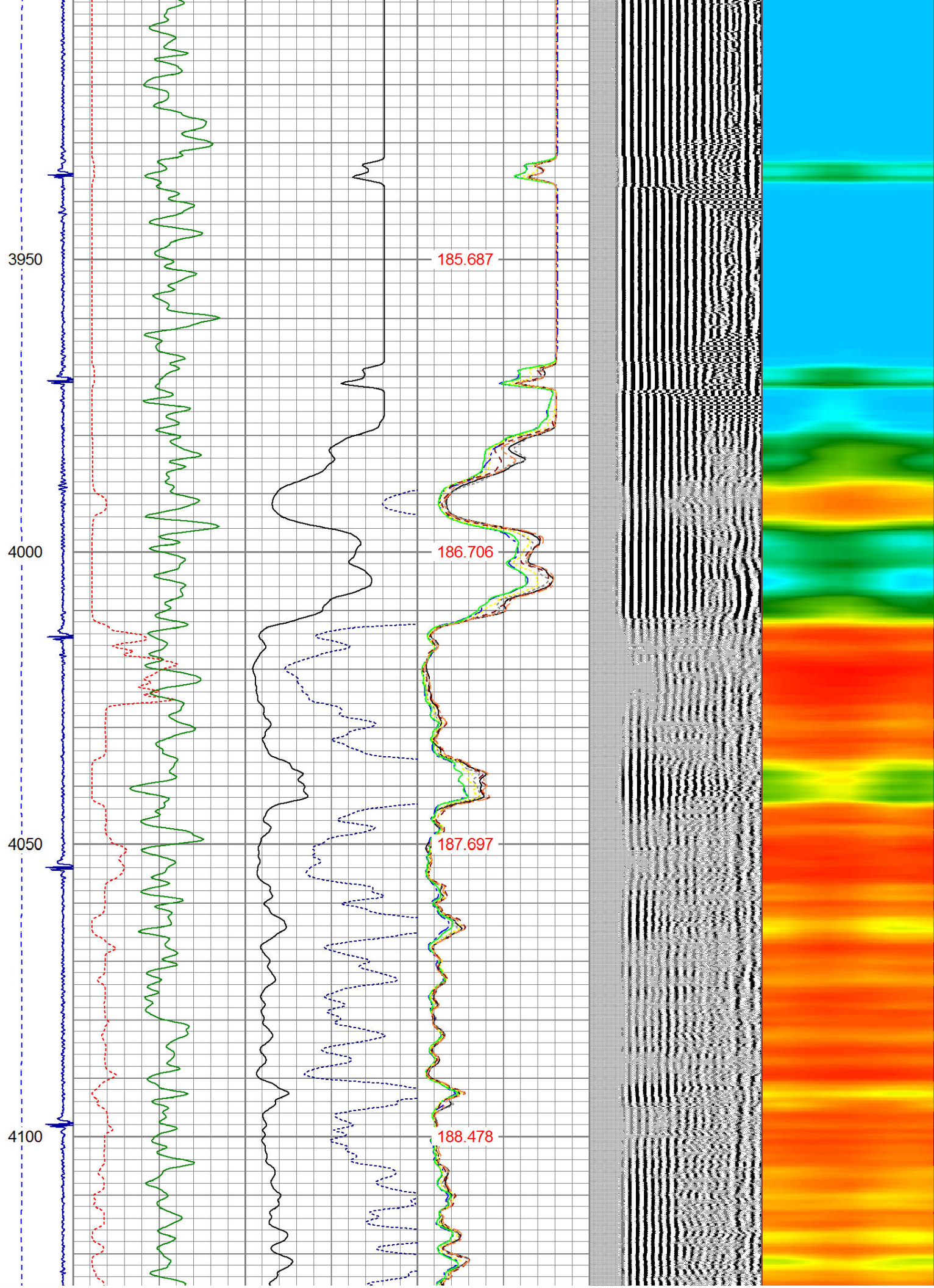


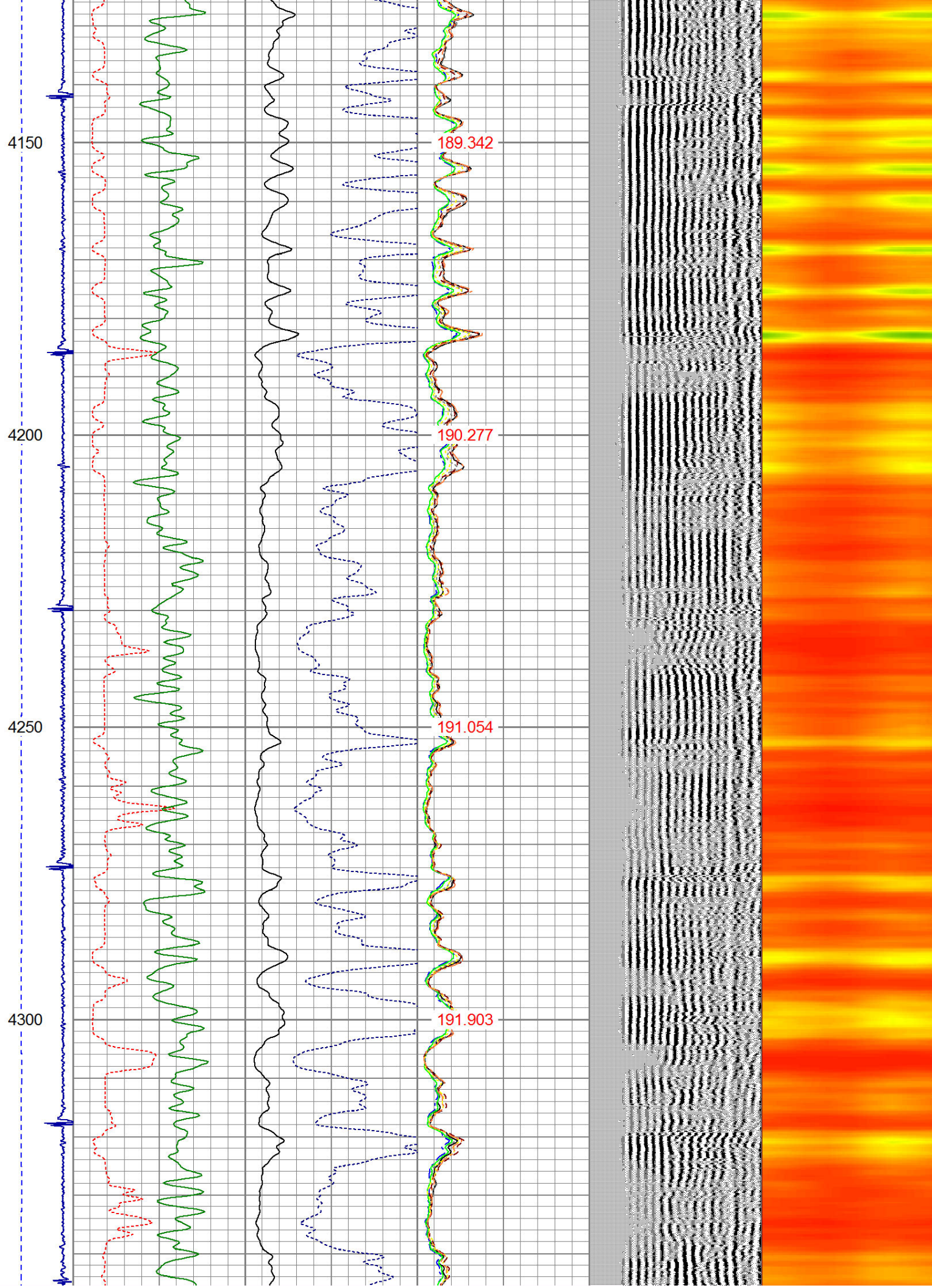


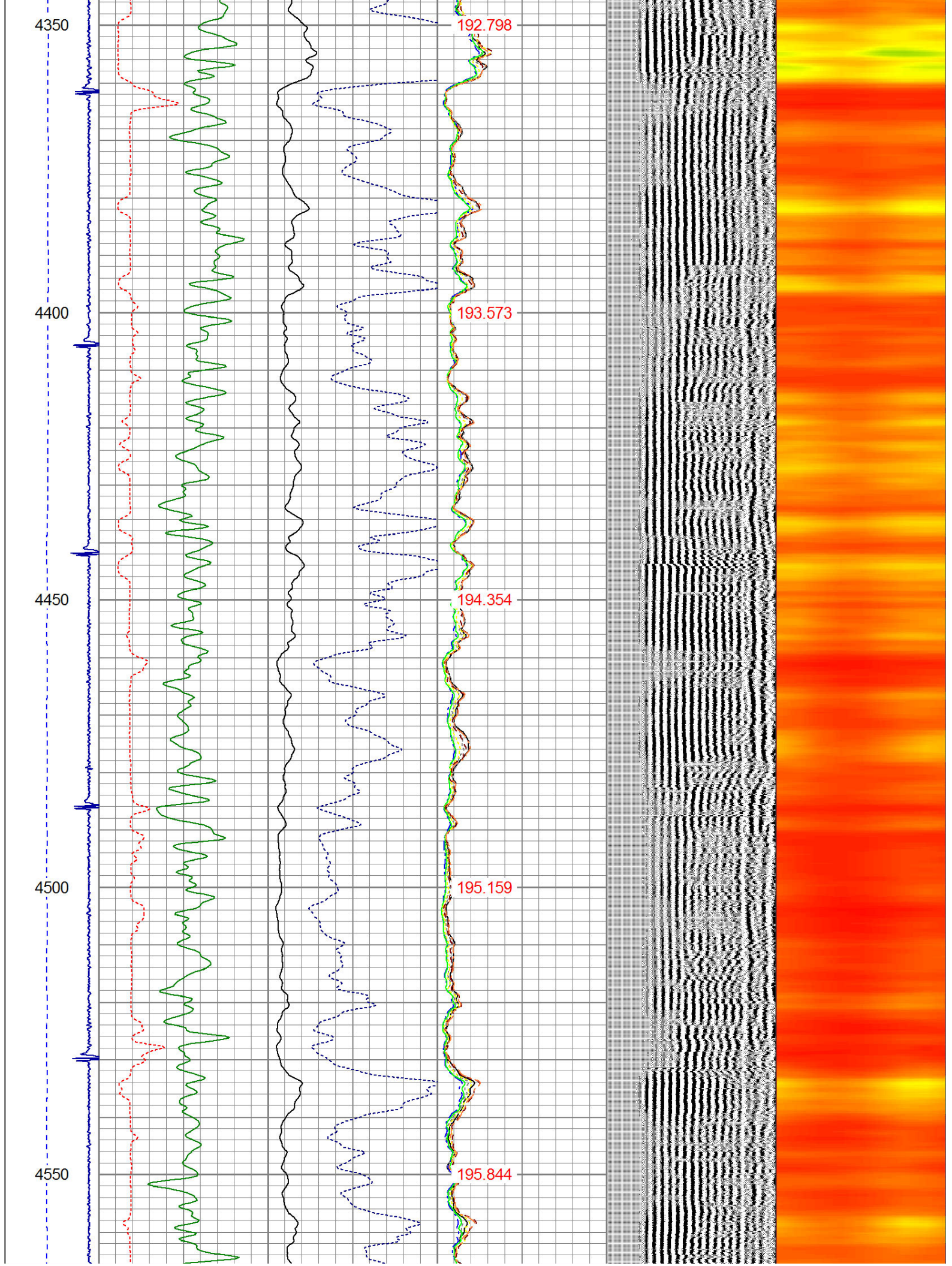


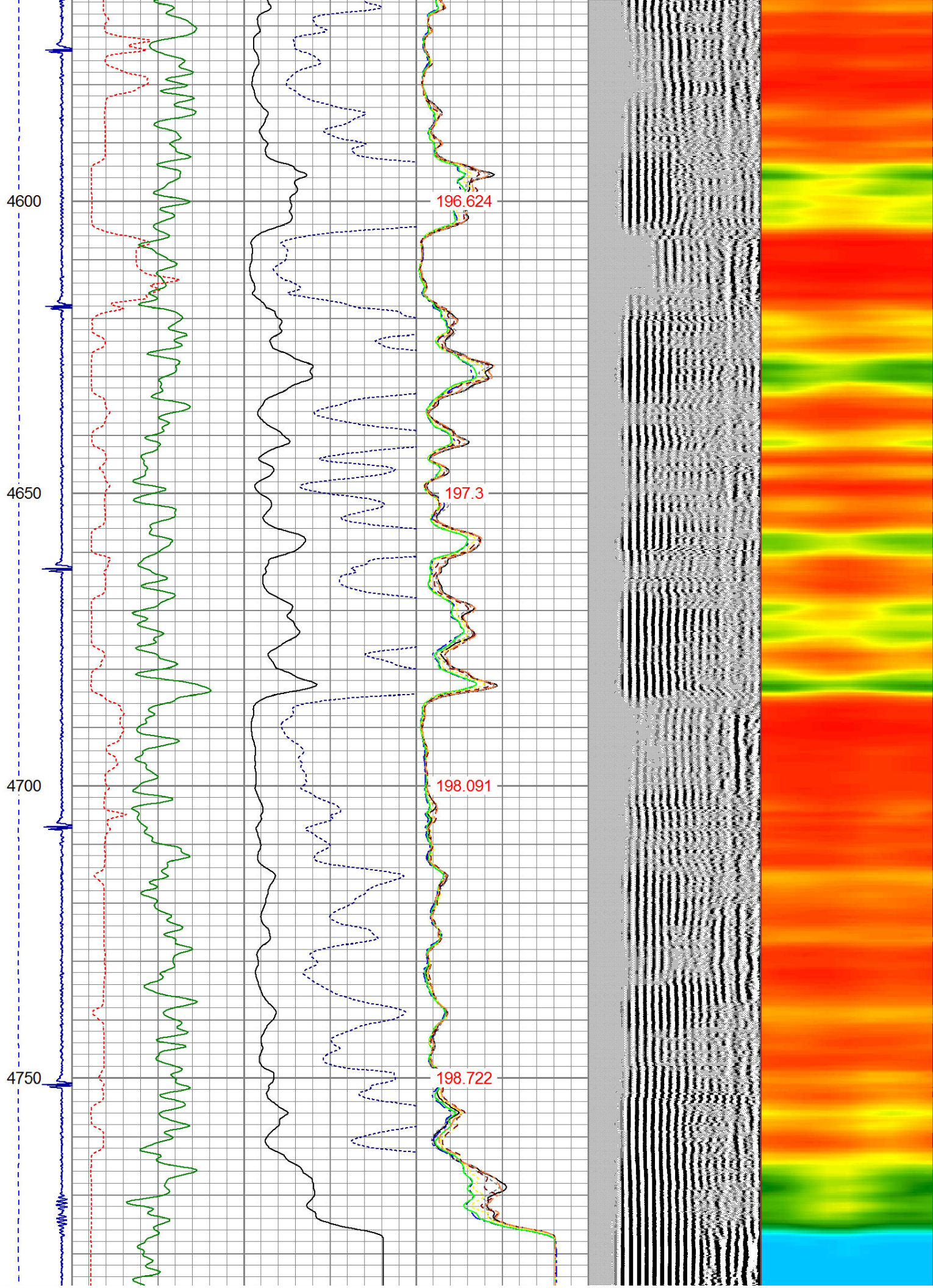


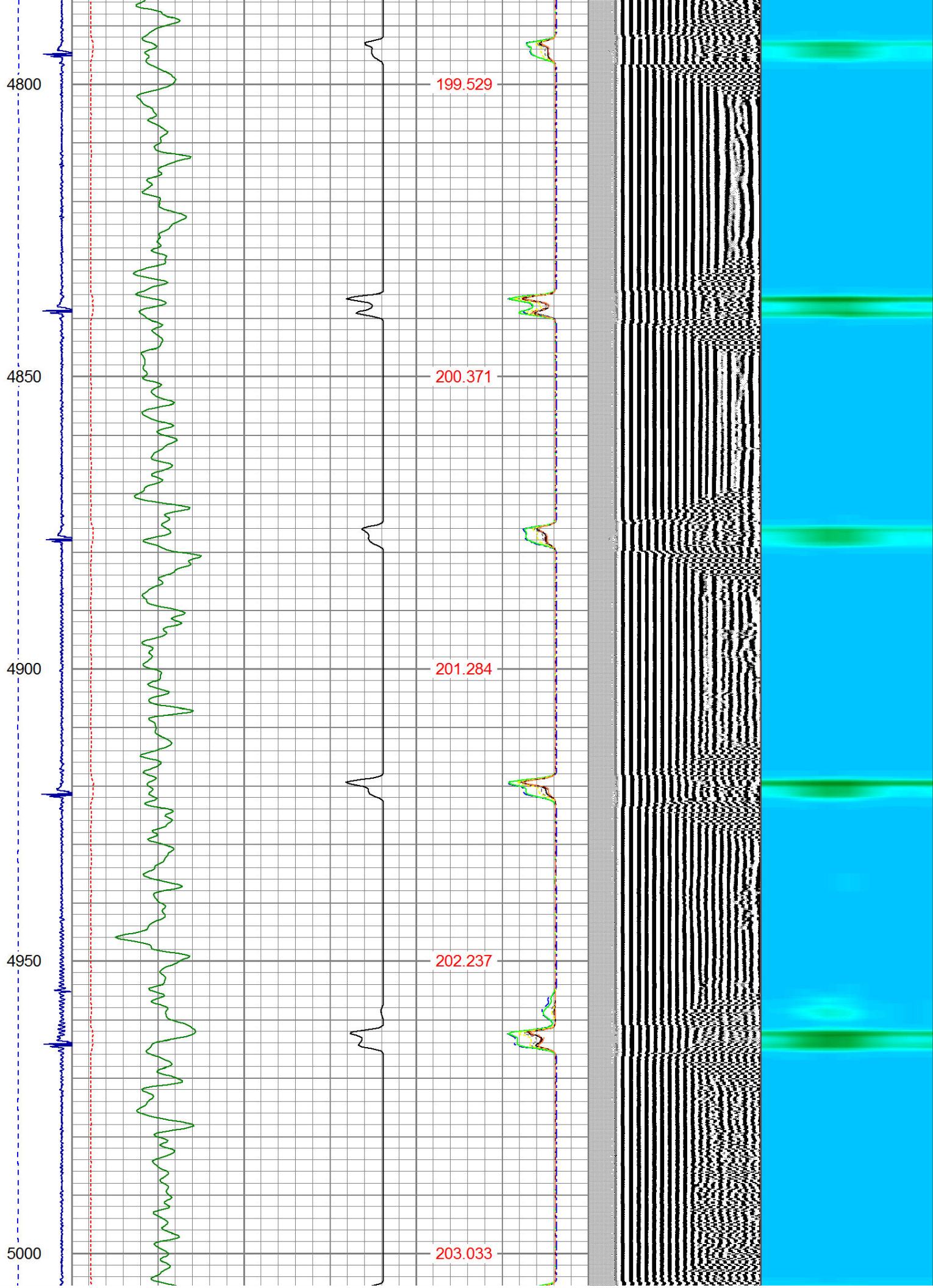


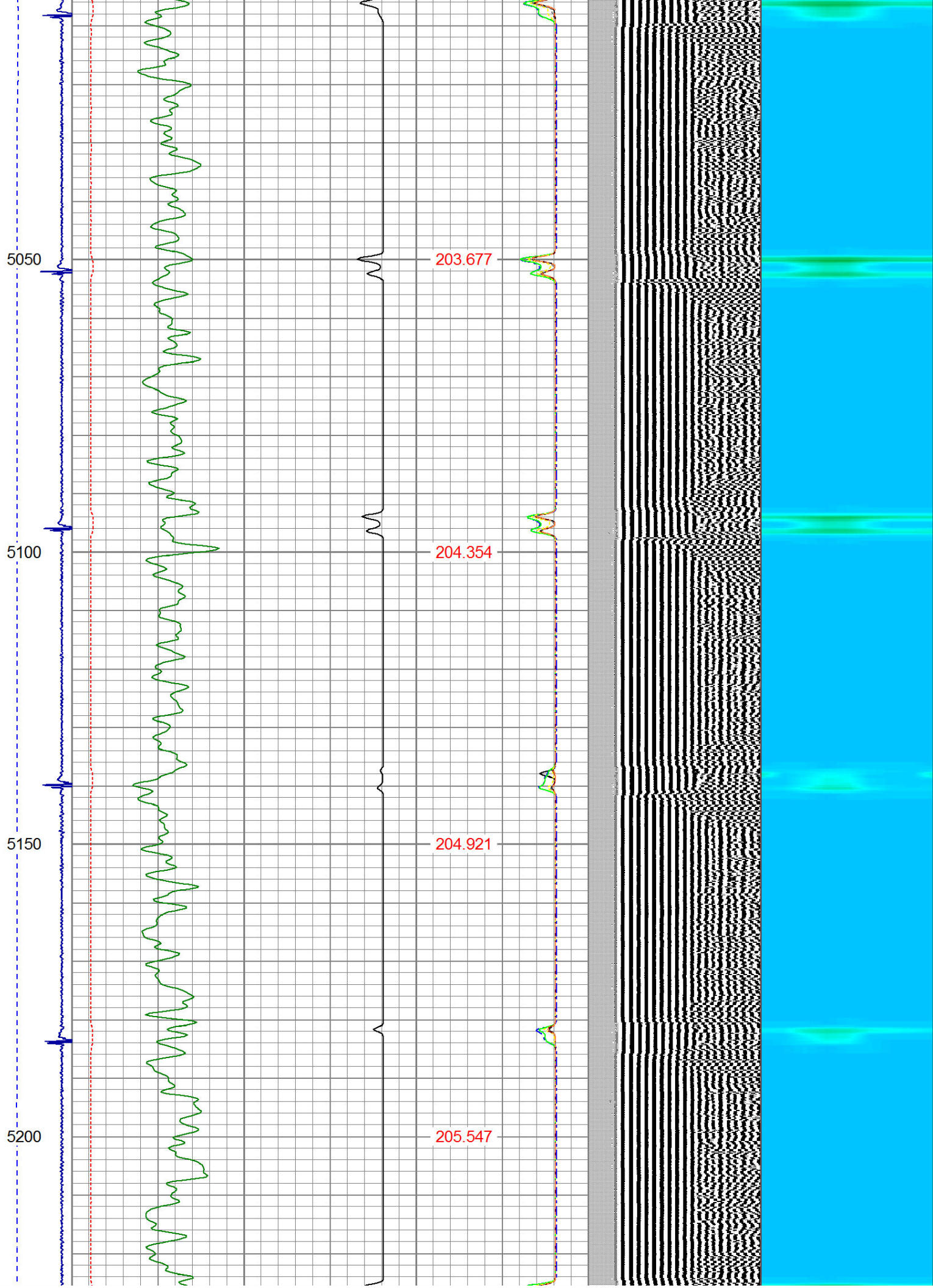


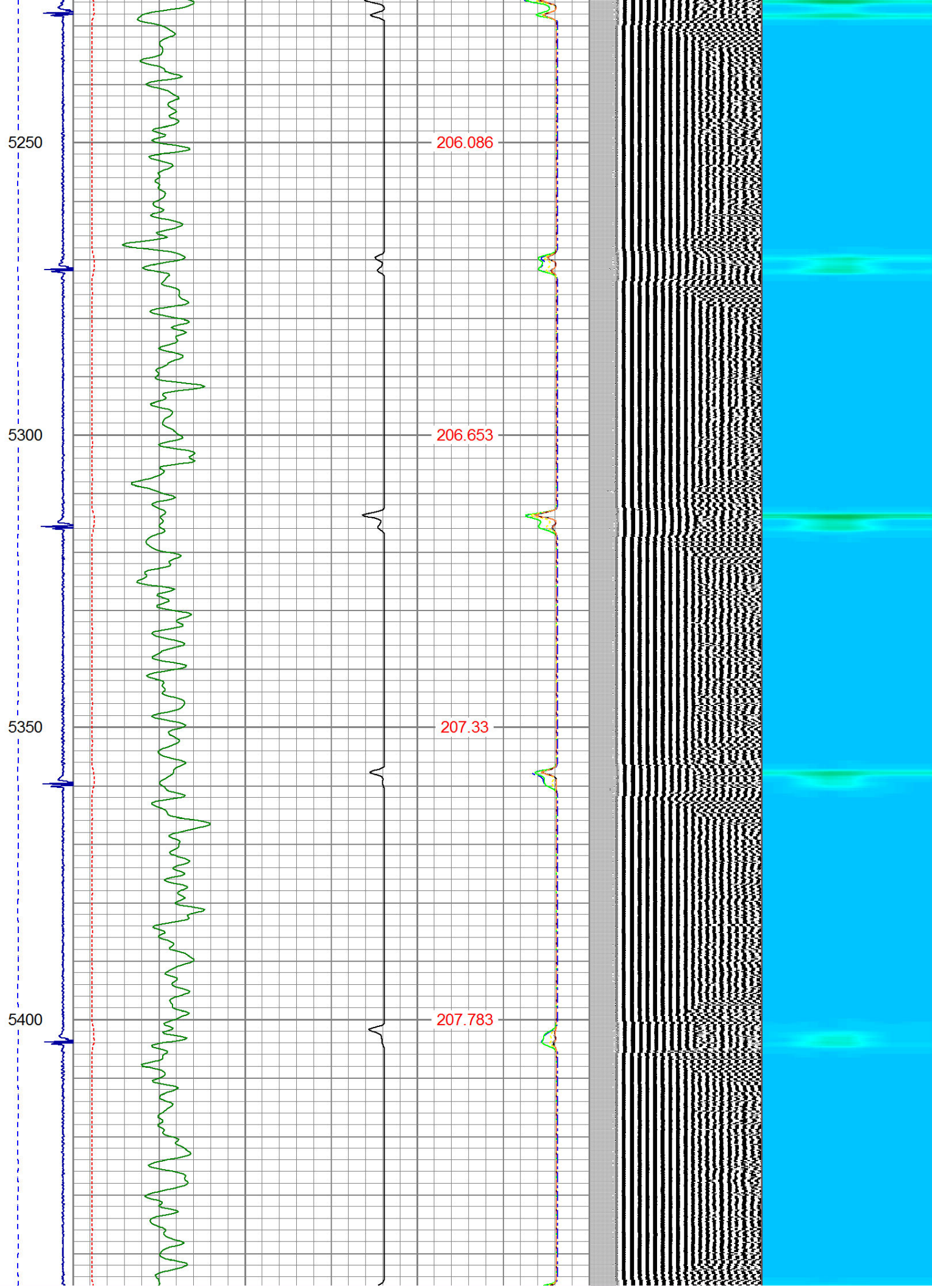


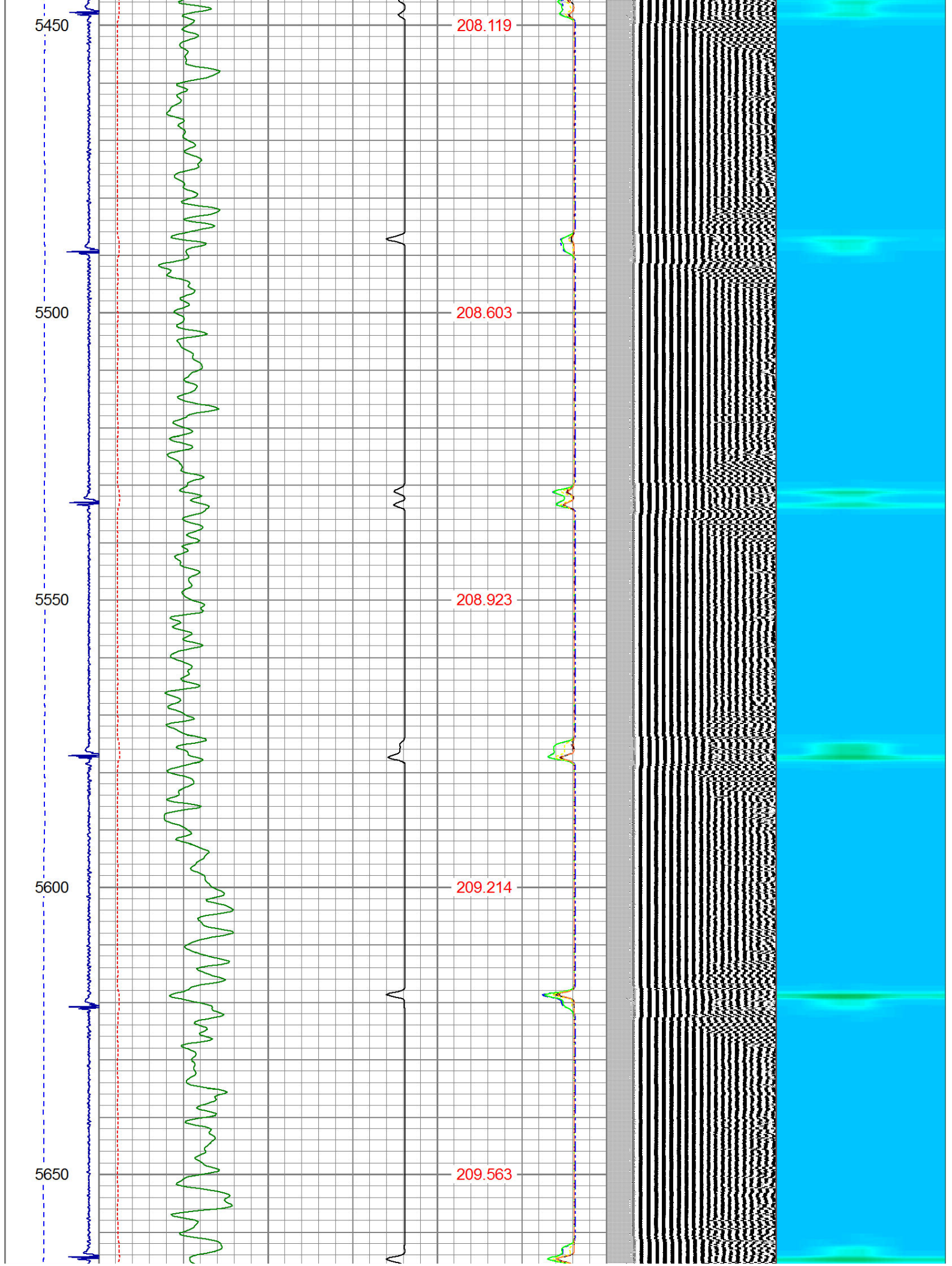


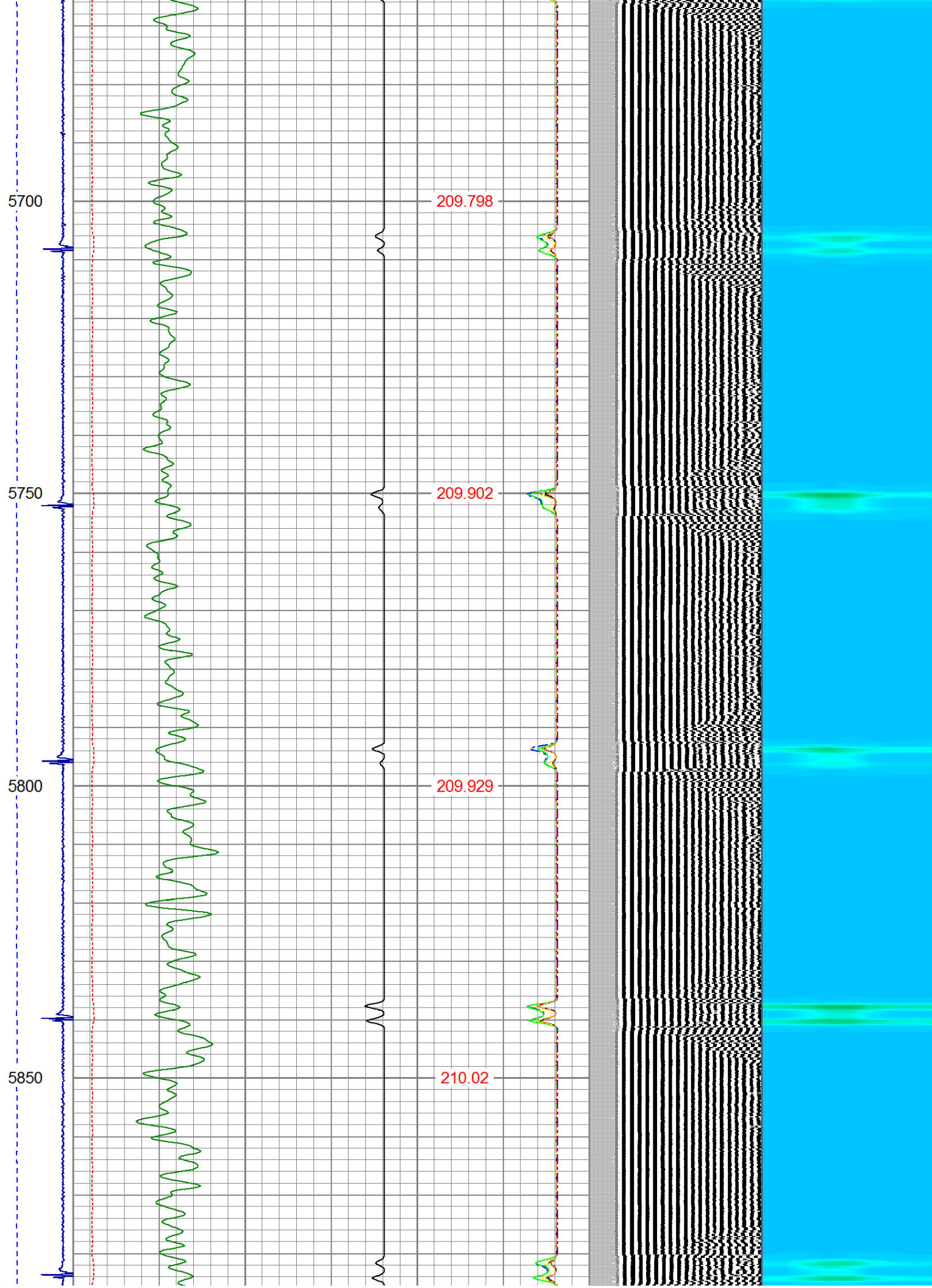


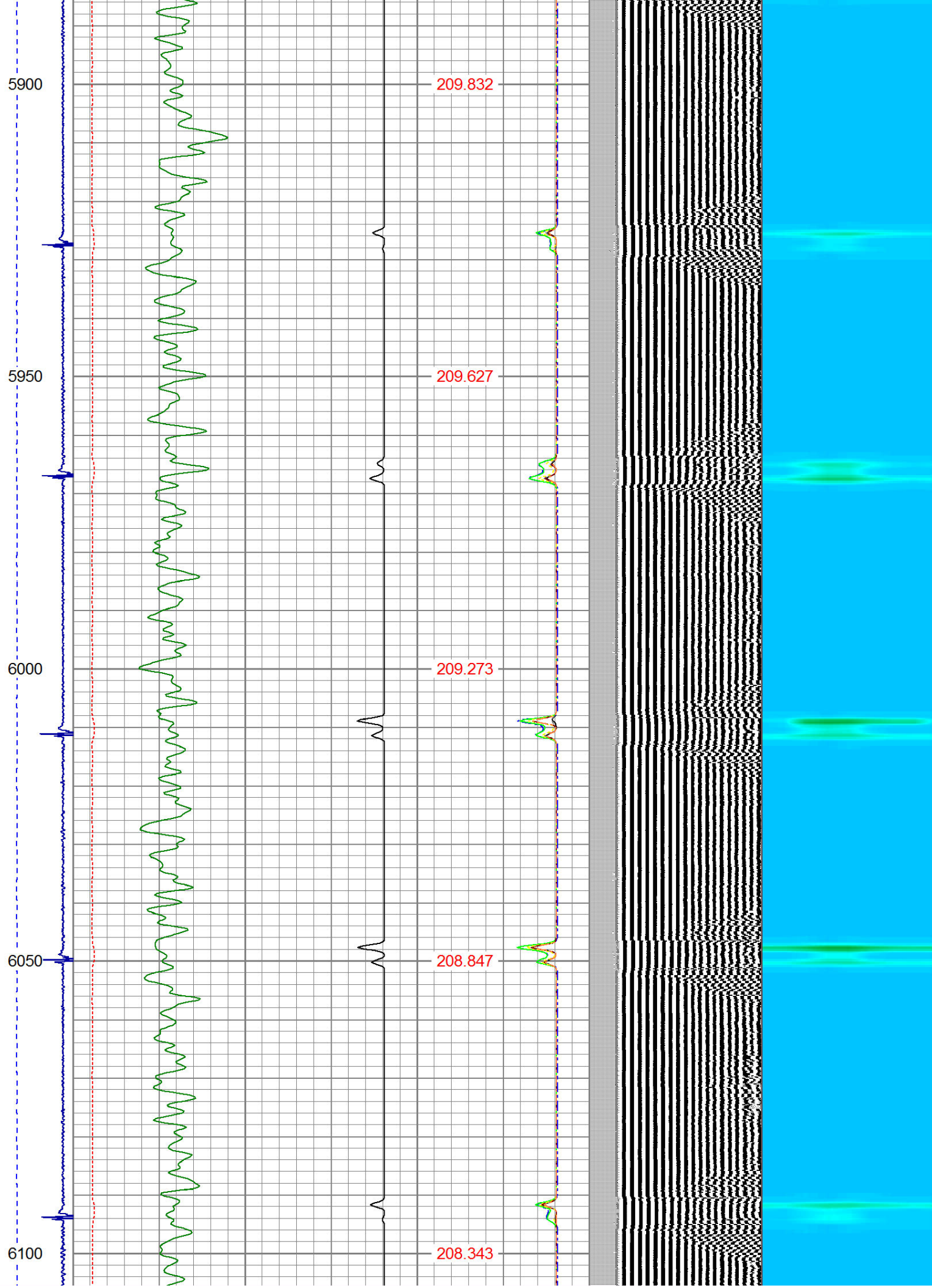


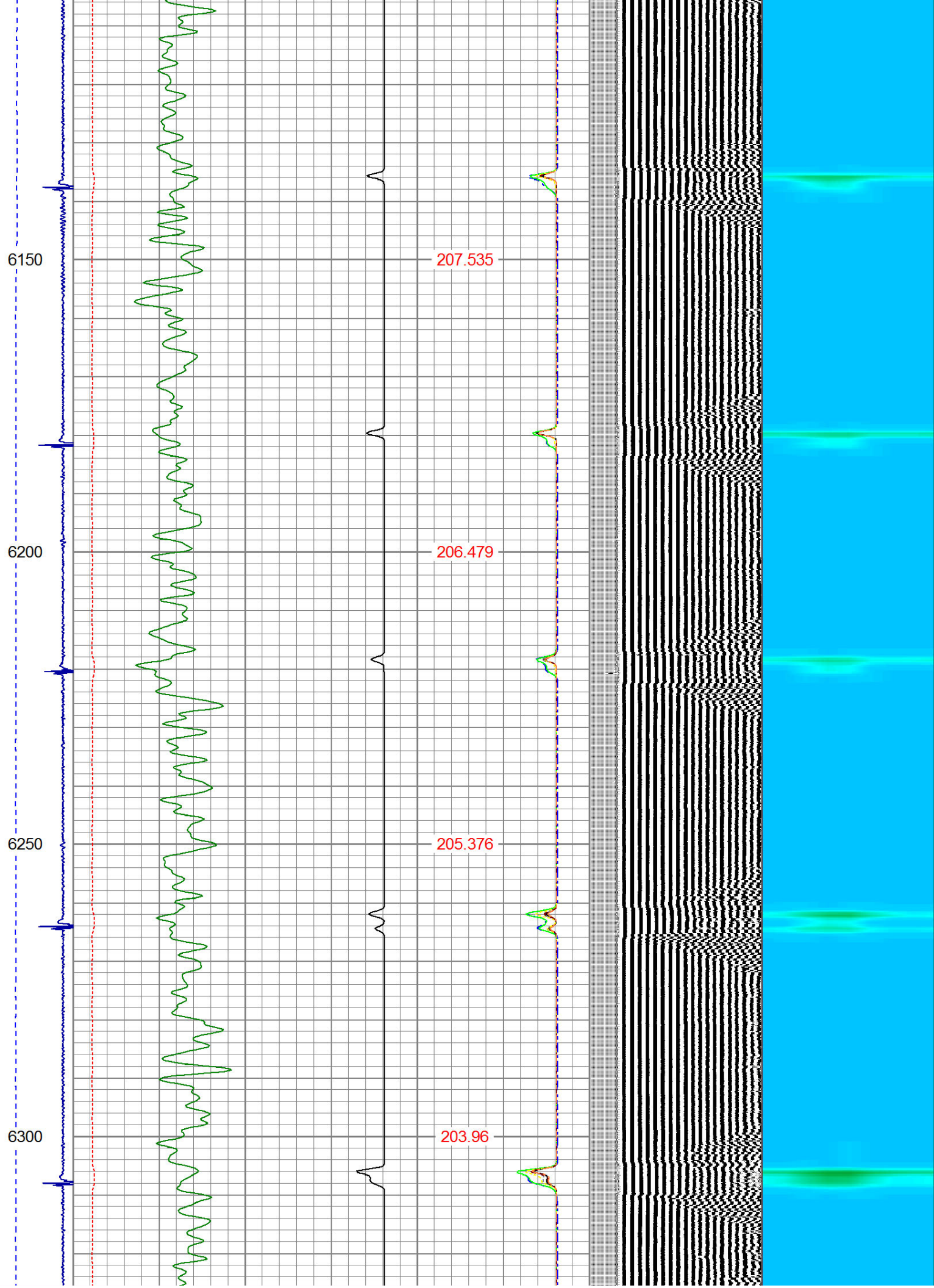


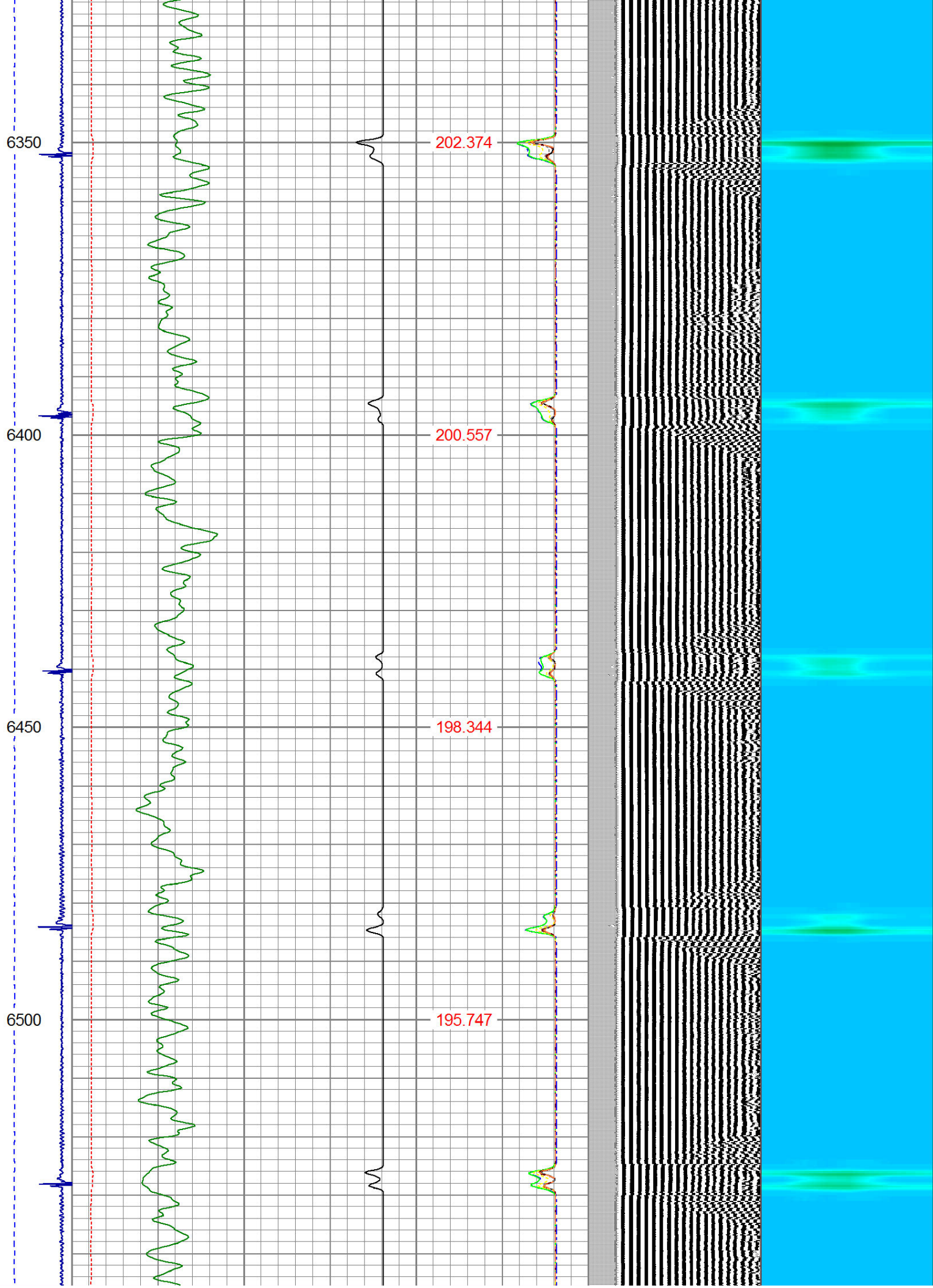


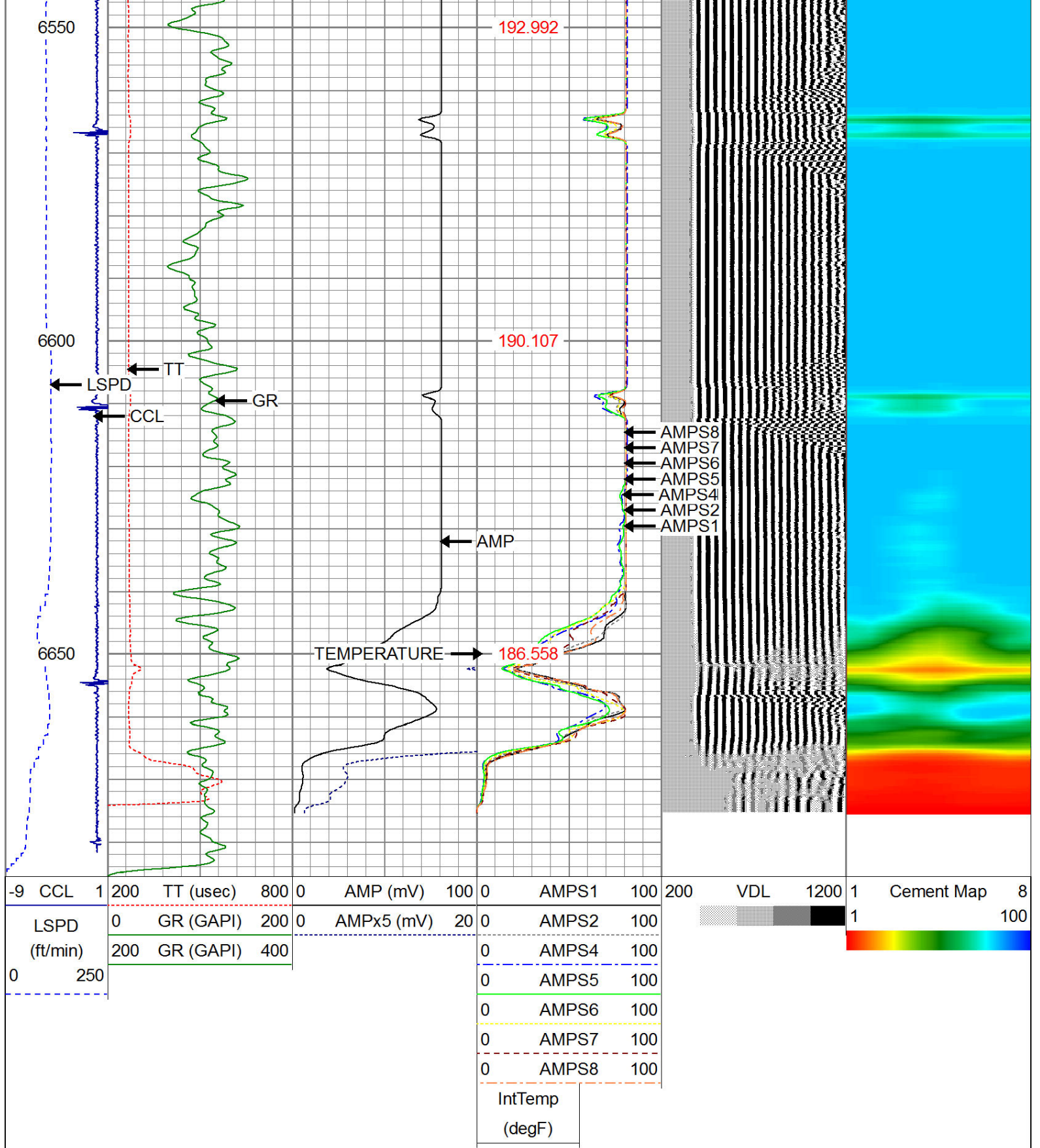












WARRIOR
ENERGY SERVICES

Company Kerr McGee Oil & Gas

Well HSR NIAL 13-7A

Field Wattenberg

County Weld

State CO