



**RADIAL CEMENT BOND
GAMMA RAY
CCL**

Company **BONANZA CREEK ENERGY**
Well **PRONGHORN 14-11-4HNB**
Field **WATTENBERG**
County **WELD** State **CO**

Location: **APL # : 05-123-37499-00**
SHL 370' FSL & 1410' FWL SE/SW
BHL 470' FNL & 500' FWL SW/SW
SEC 4 TWP T5N RGE R61W
Permanent Datum **GL** Elevation **4654'**
Log Measured From **KB 17'**
Drilling Measured From **KB**
Other Services
K.B. 4671'
D.F. 4670'
G.L. 4654'

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Date **8-19-2014**

Run Number **ONE**
Depth Driller **N/A**
Depth Logger **6498'**
Bottom Logged Interval **6495'**
Top Log Interval **SURFACE**
Open Hole Size **7.875**
Type Fluid **WATER**
Density / Viscosity **1.0**
Max. Recorded Temp. **194**
Estimated Cement Top **384'**
Time Well Ready **N/A**
Time Logger on Bottom **N/A**
Equipment Number **4310**
Location **GREELEY**
Recorded By **A.STEERMAN**
Witnessed By **T.GAUNA**

Borehole Record
Run Number Bit From To Size Weight From To

Casing Record
Surface String 8.63 Wgt/Ft 36# Top SURFACE Bottom 469'

Prot. String
Production String 7.0 26# SURFACE 6672'
Liner 4.0 11.6# 6450 10762'

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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

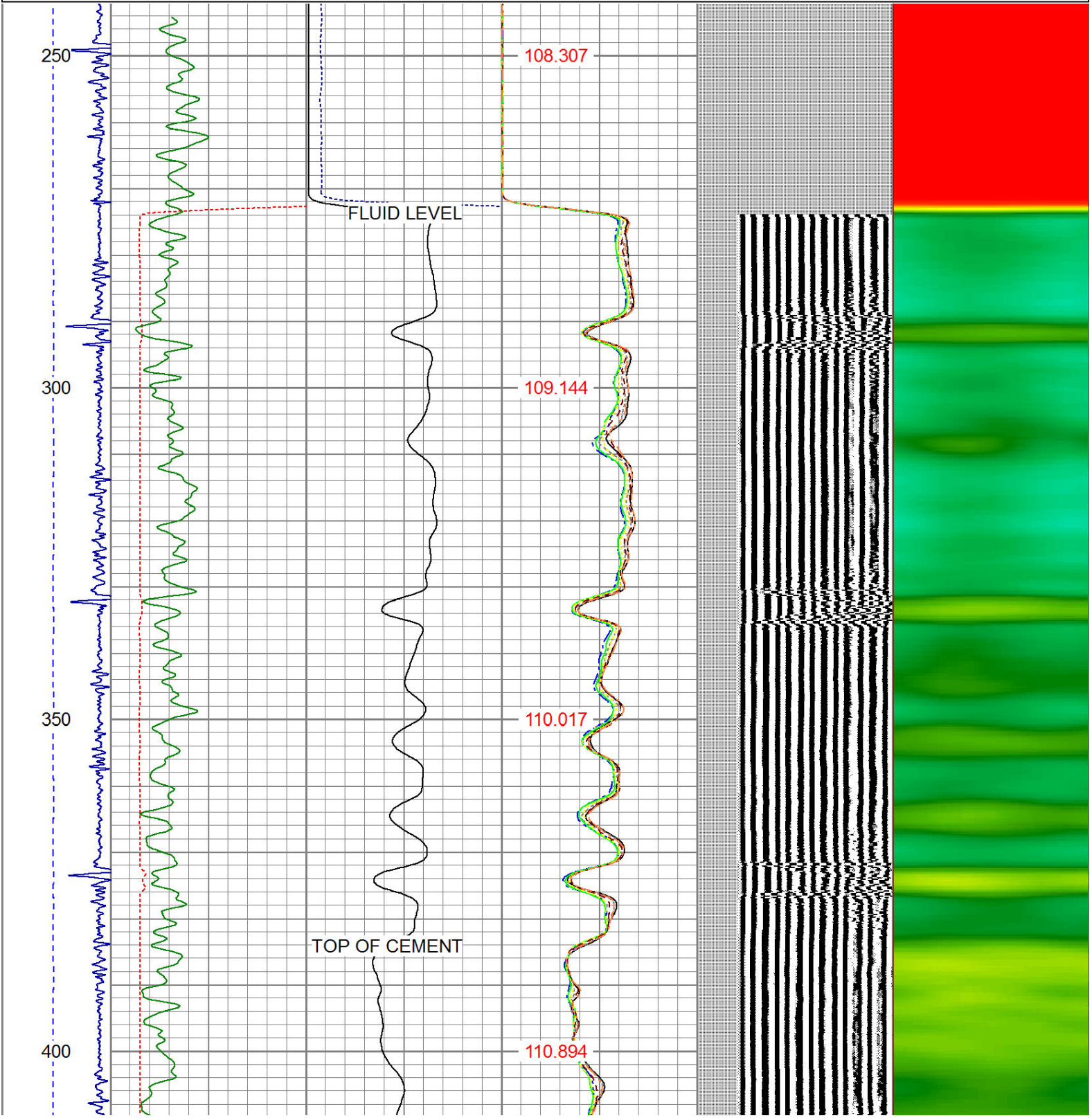
CORRELATED TO LINER AT 6450
RAN CBL TO VERIFY CEMENT

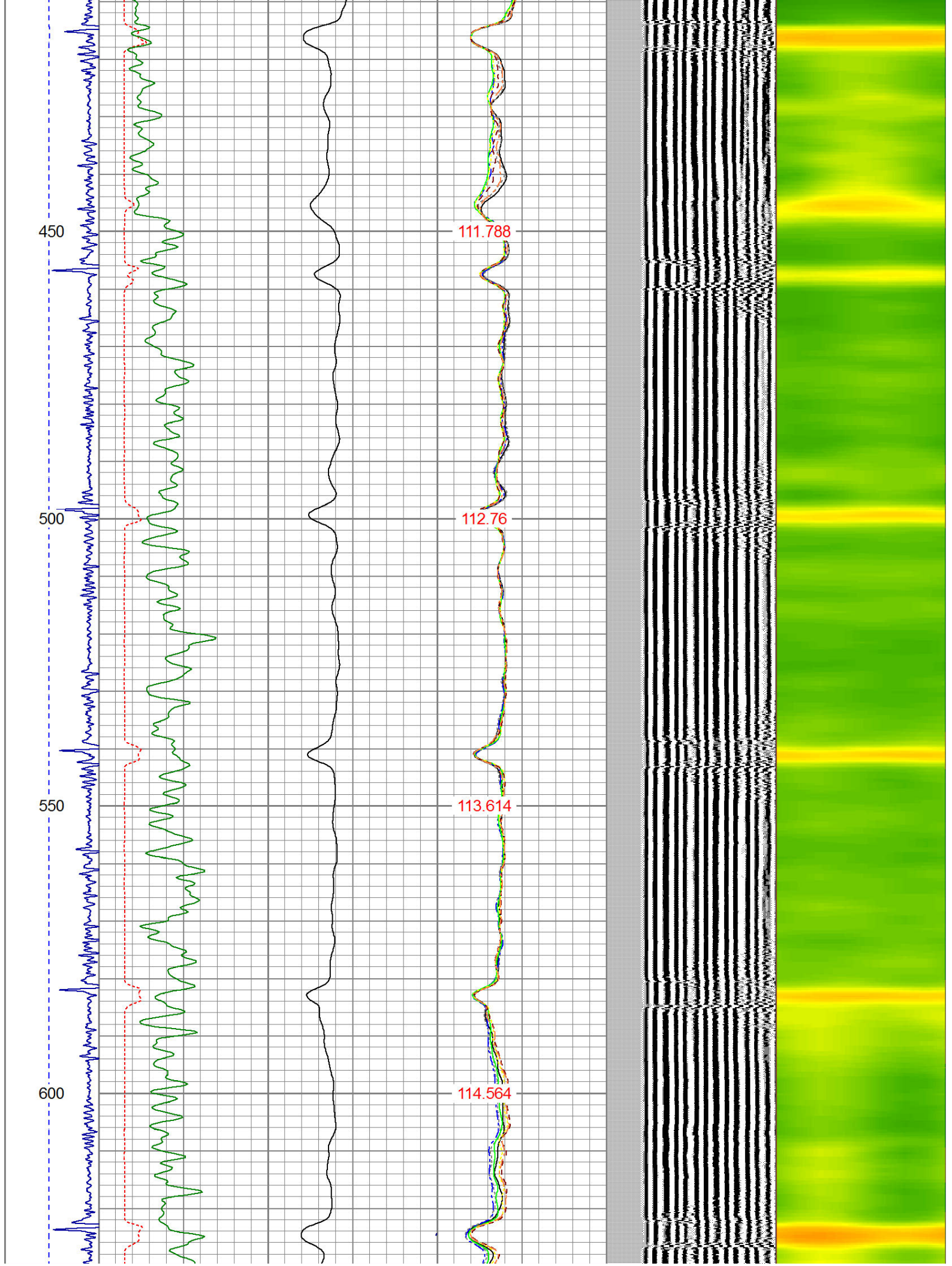
THANK YOU FOR USING WARRIOR !!!!!!!

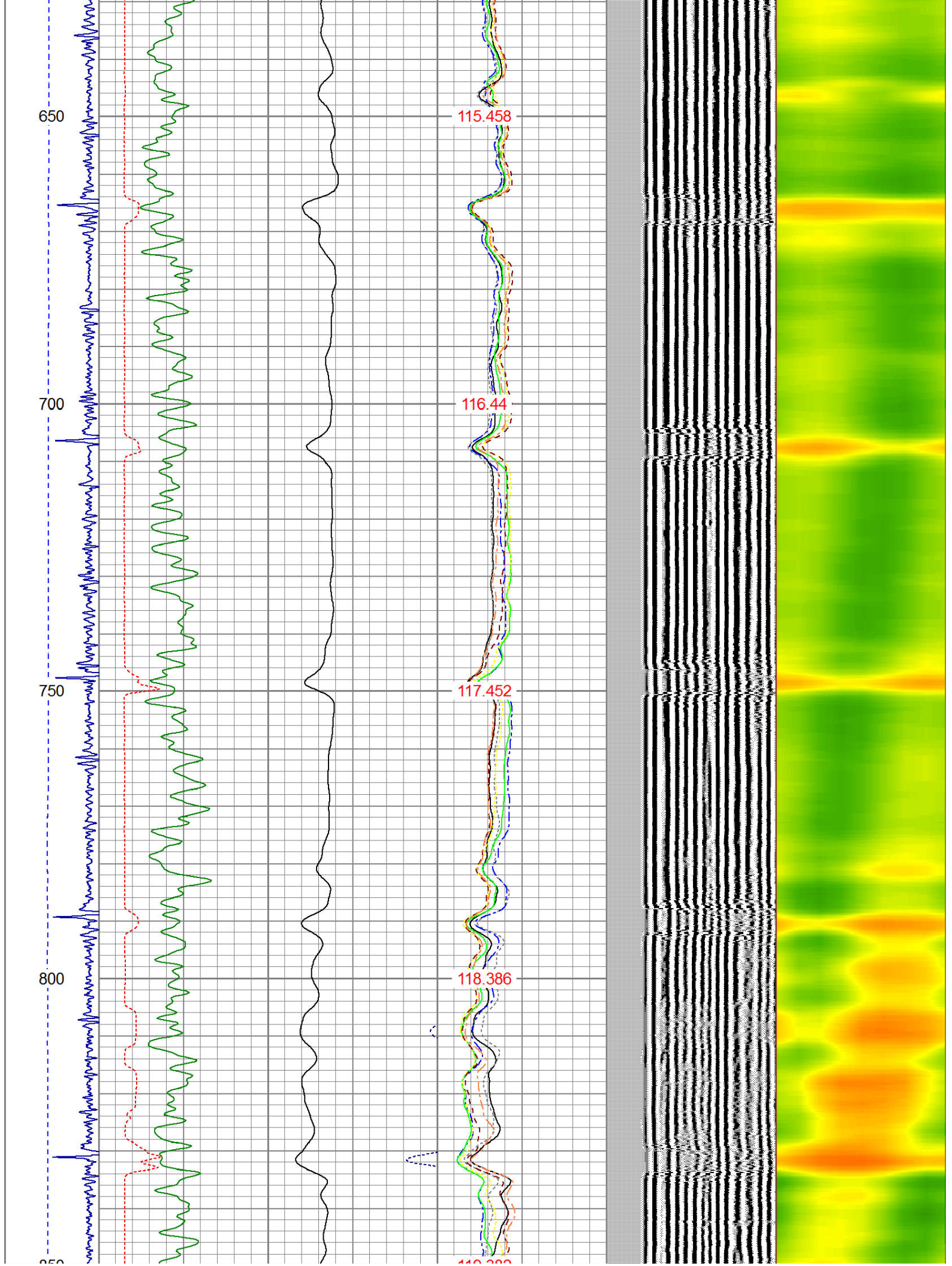
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

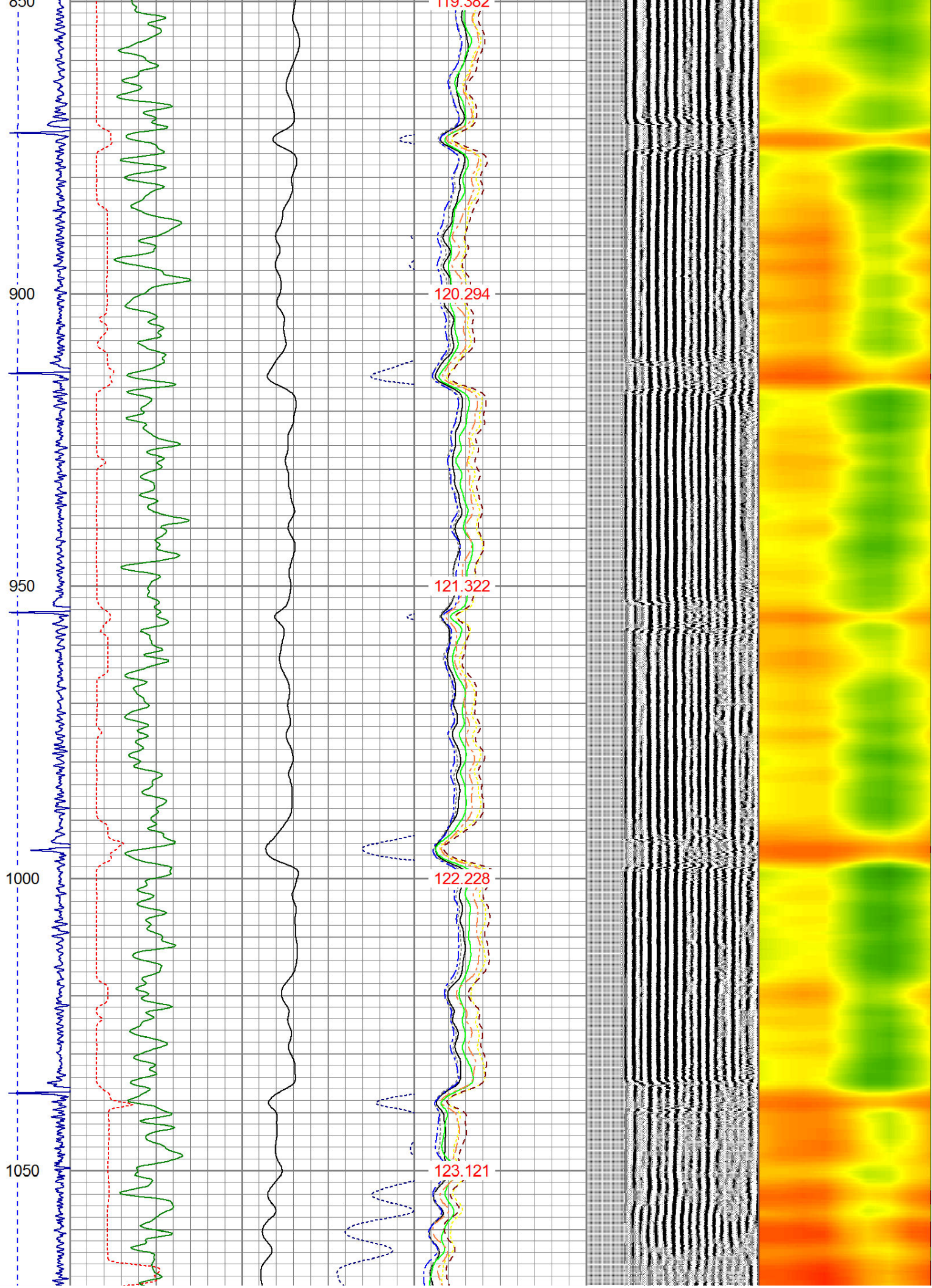
CNLSC	17.75		CNT-Probe_B (275) 6 bow centralizer	3.00	2.75	40.00
CNSSC	16.92					
HEADVOLT	16.08					
IntTemp	14.67					
WVF3FT	11.42					
WVFCAL	11.42					
WVFS1	11.42					
WVFS2	11.42					
WVFS3	11.42					
WVFS4	11.42					
WVFS5	11.42					
WVFS6	11.42					
WVFS7	11.42					
WVFS8	11.42					
WVF5FT	10.42					
			RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			PTS275	2.83	2.75	
CCL	3.64					
			GR-Probe (275) Probe 2.75"	4.33	2.75	30.00
GR	0.90					
Dataset: pronghorn 14-11-4hnb.db: field/well/run1/pass4 Total Length: 19.08 ft Total Weight: 160.00 lb O.D. 2.75 in						

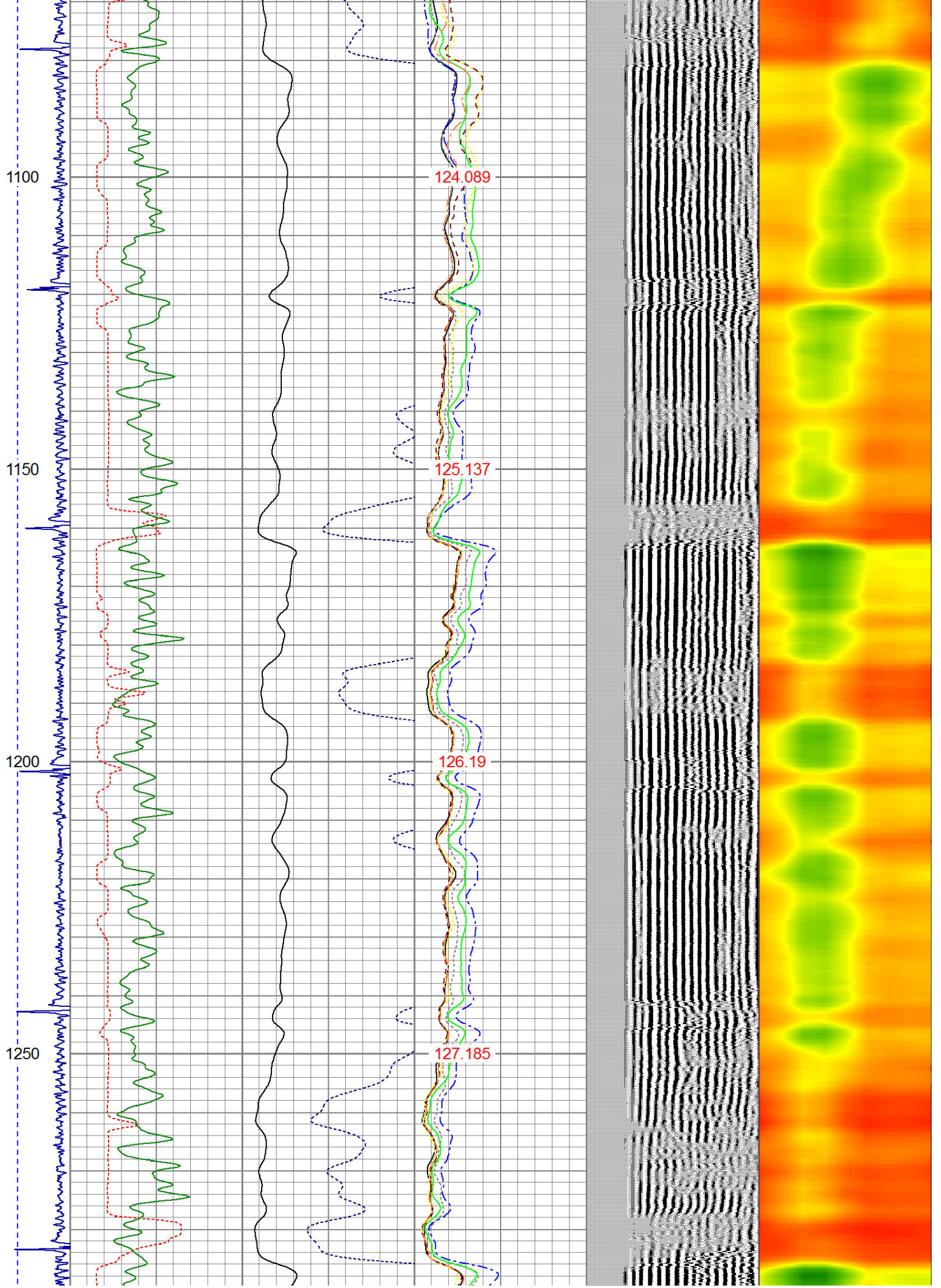
Dataset Creation:		Tue Aug 19 07:59:40 2014 by Log 7.0 B1																
Charted by:		Depth in Feet scaled 1:240																
-9	CCL	1	200	TT (usec)	900	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8	
LSPD (ft/min)	0	250	0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100	1		1		100	100	
			200	GR (GAPI)	400	0	AMPS4	100	0	AMPS5	100							0
										IntTemp								
										(degF)								

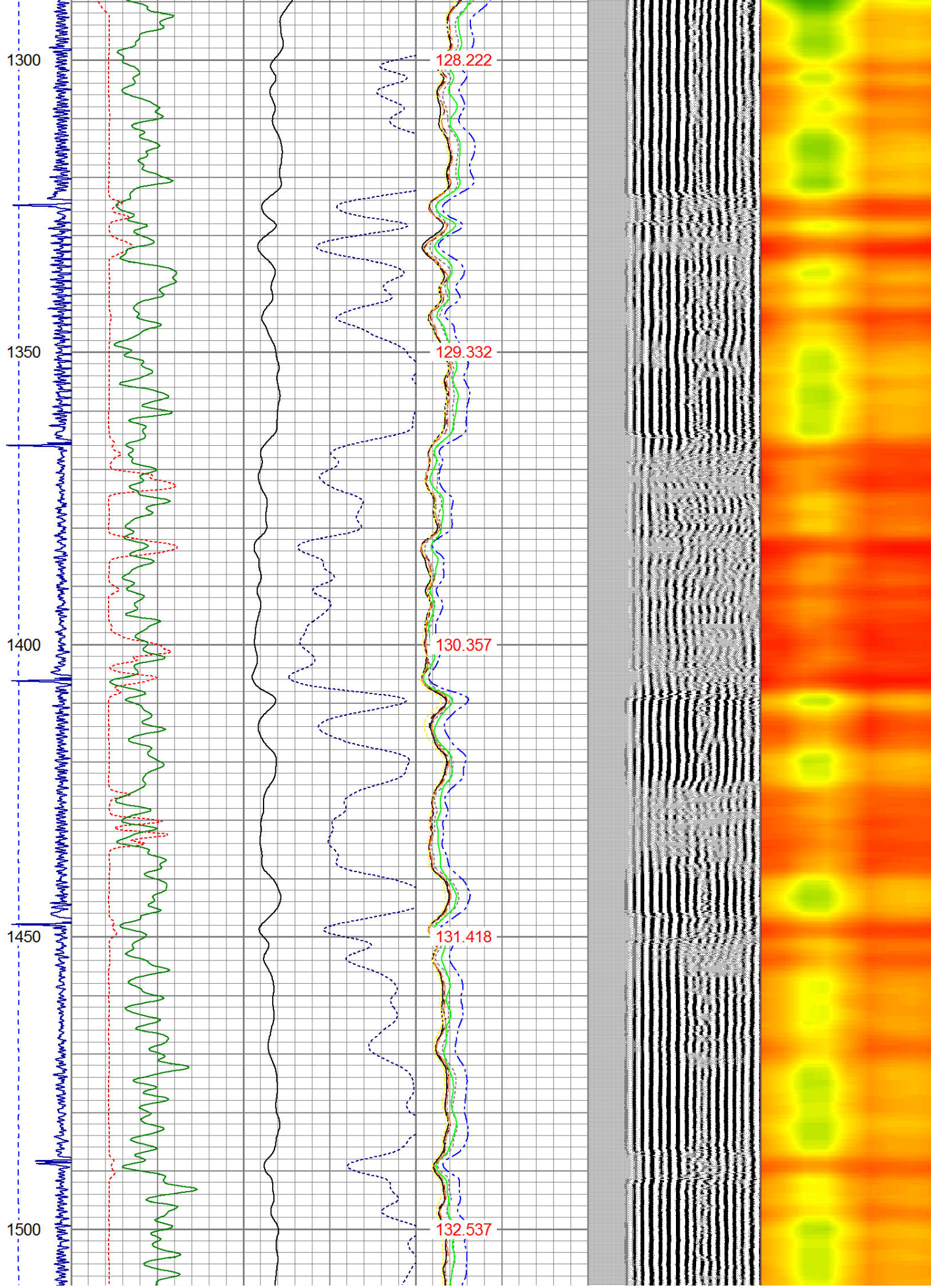


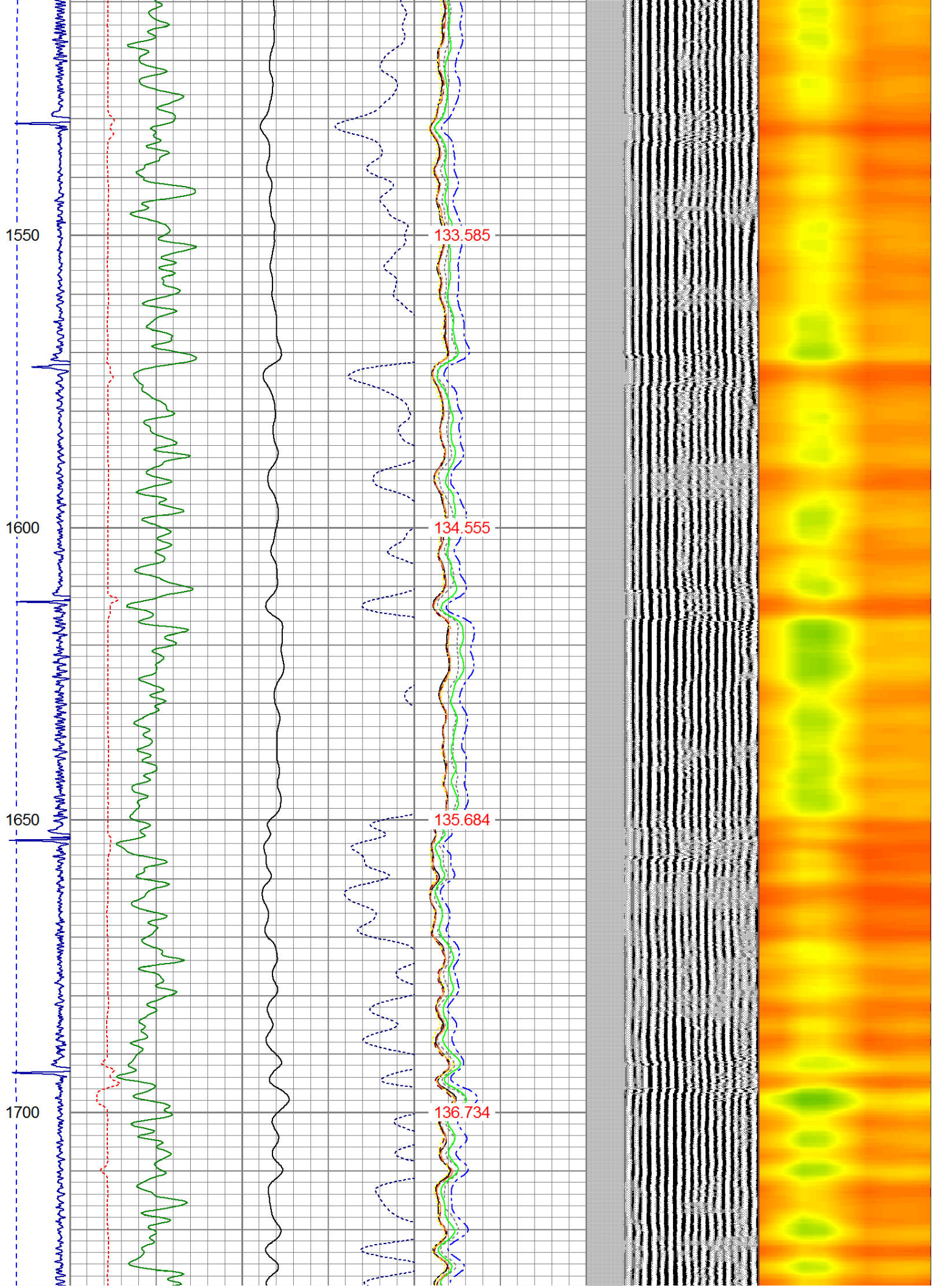


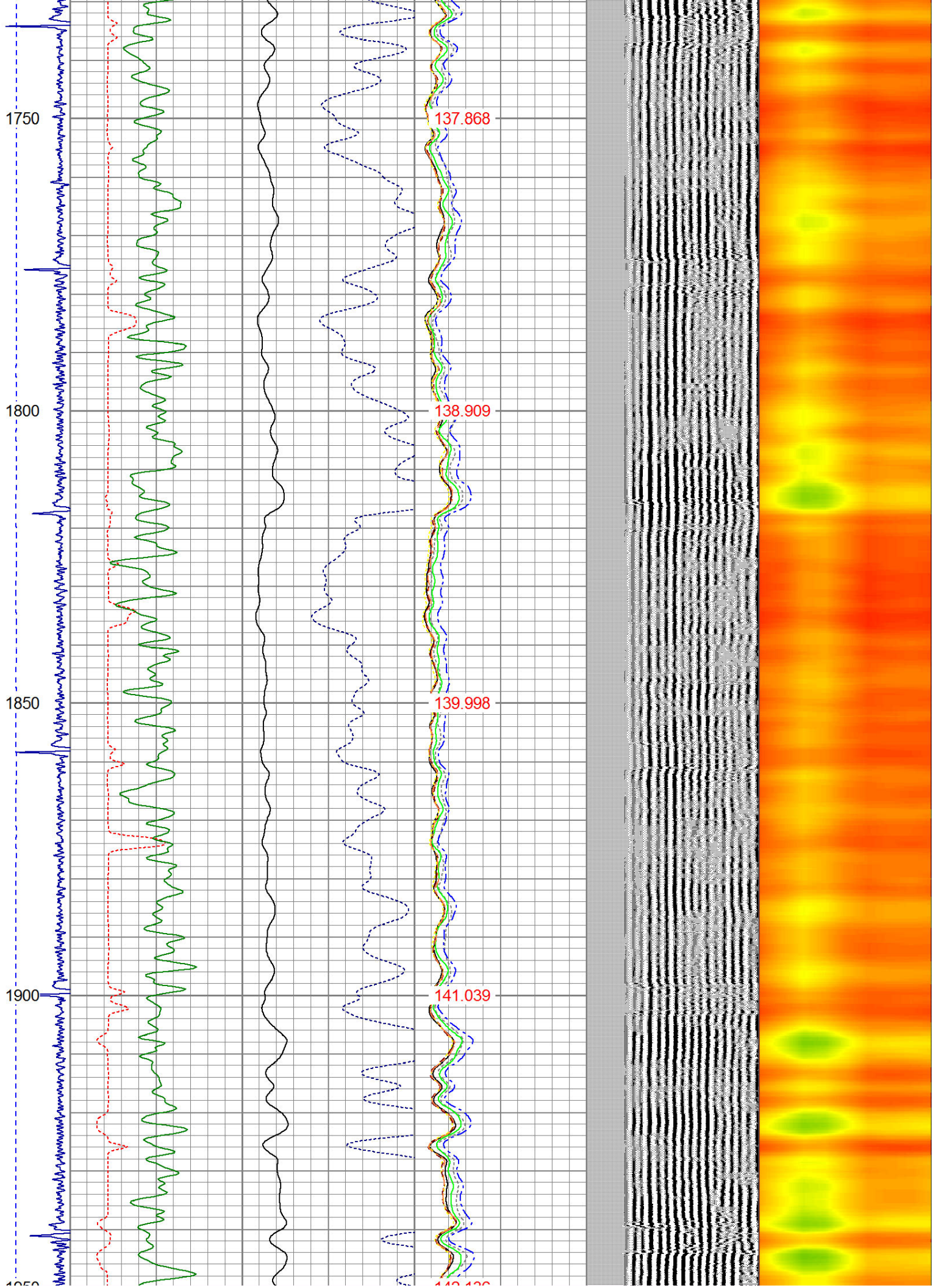


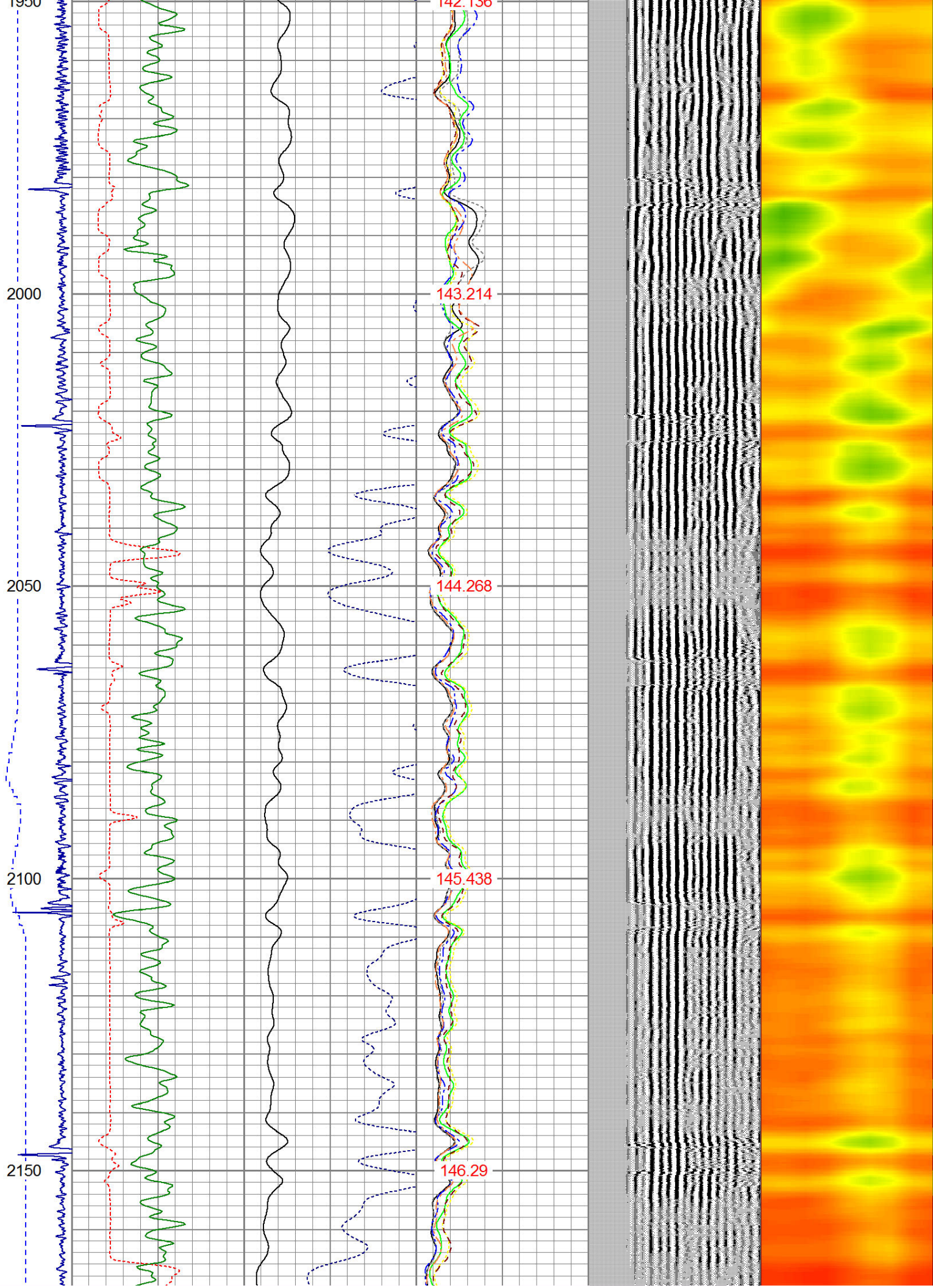


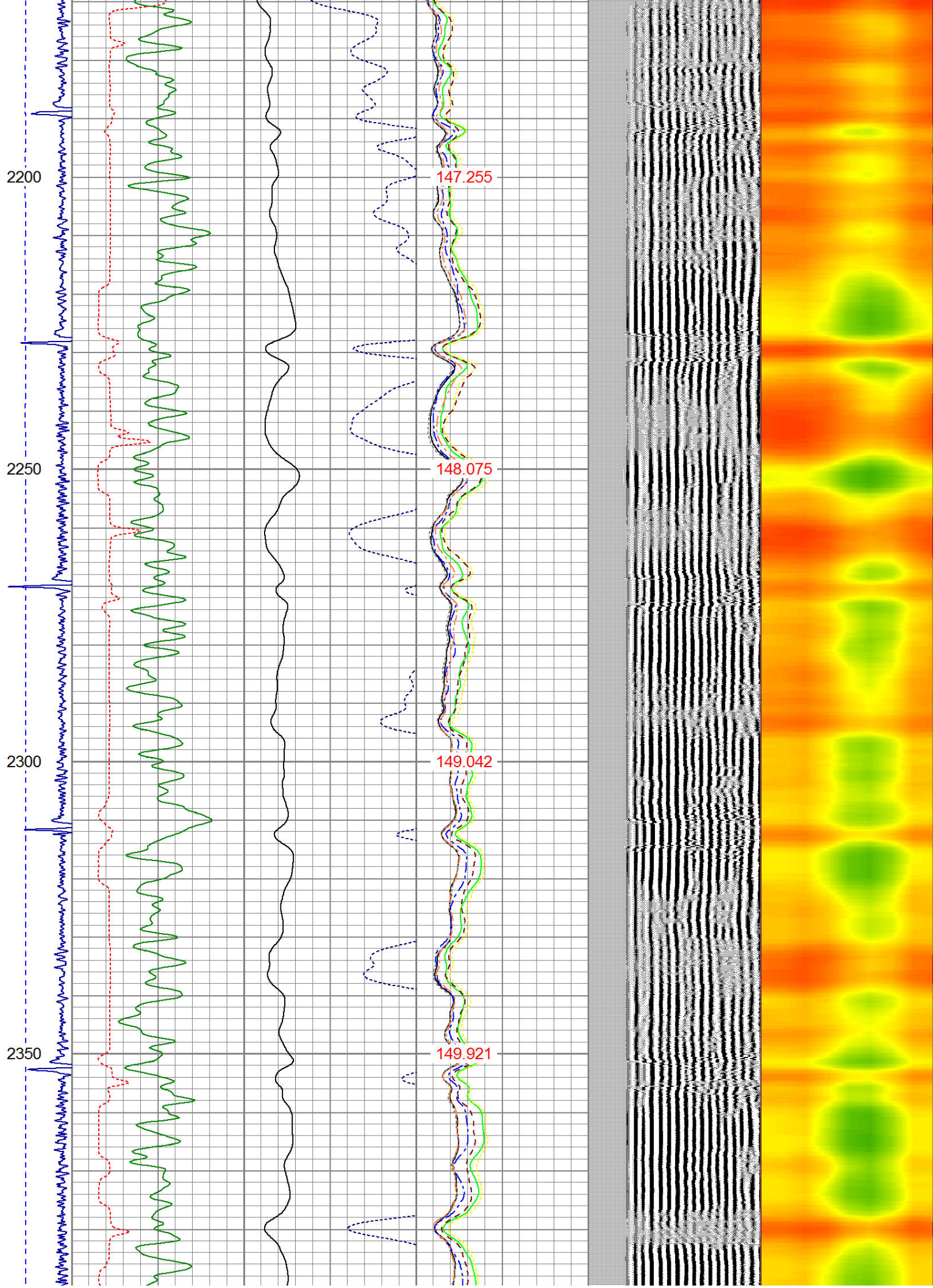


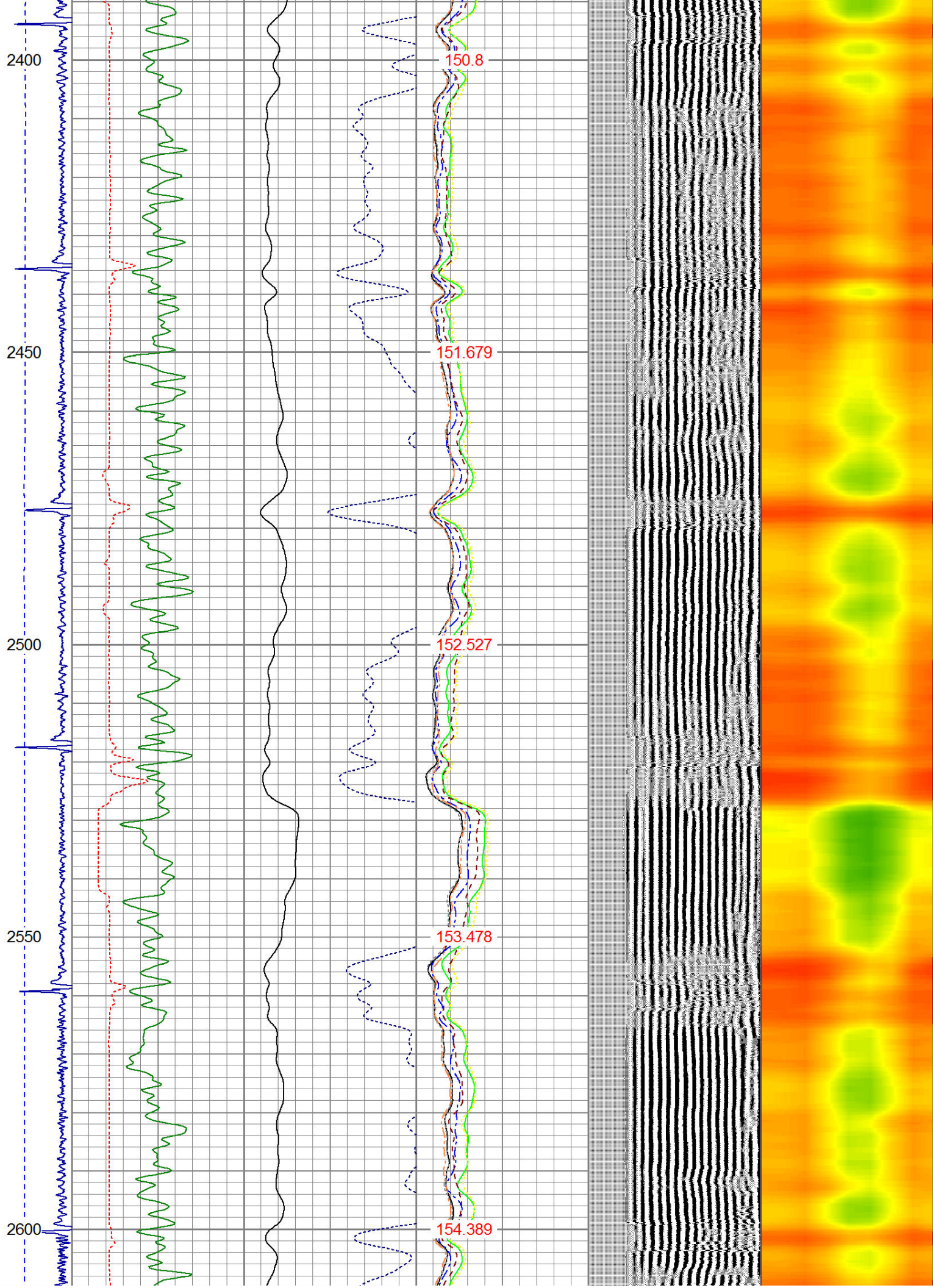


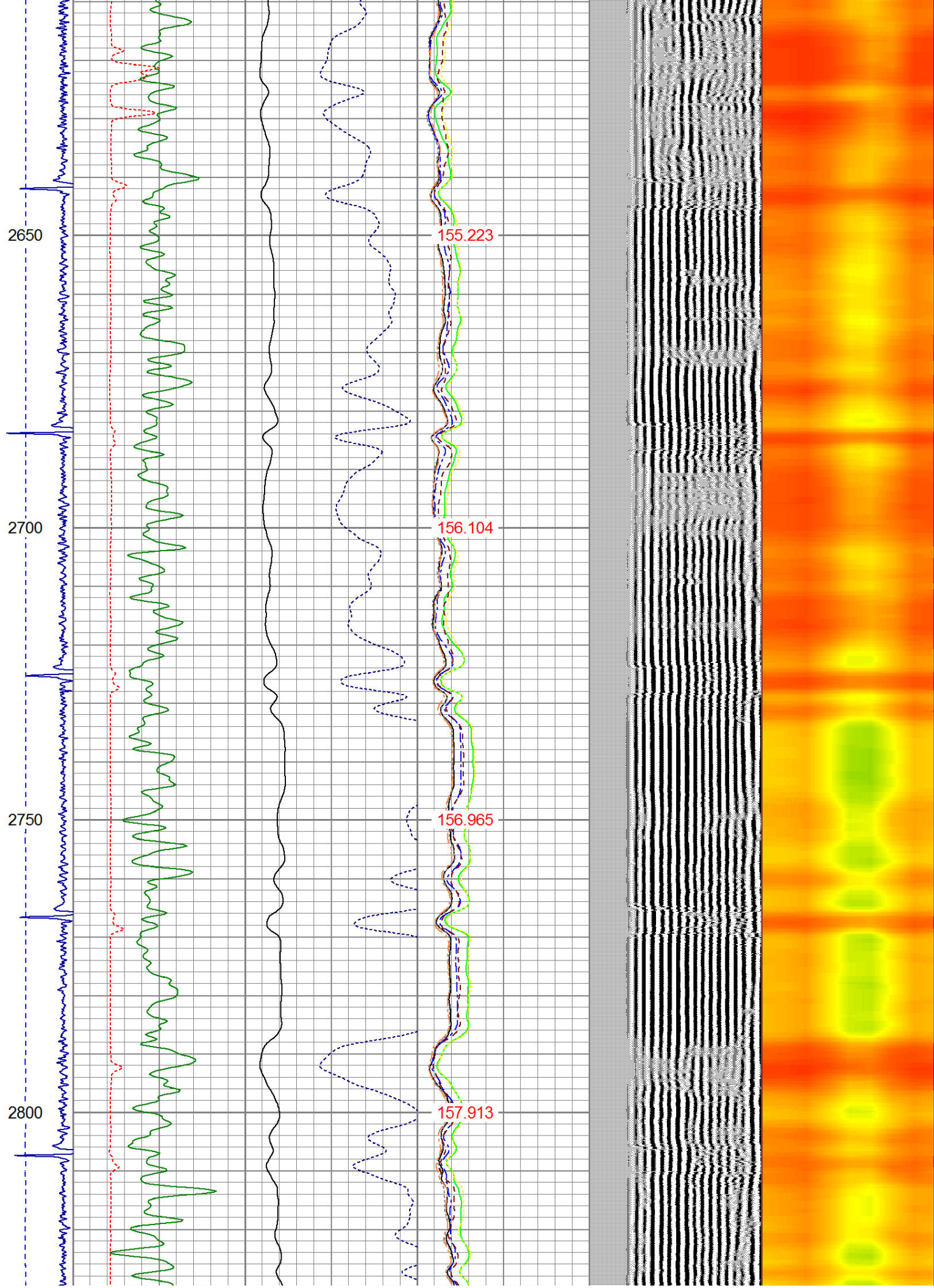


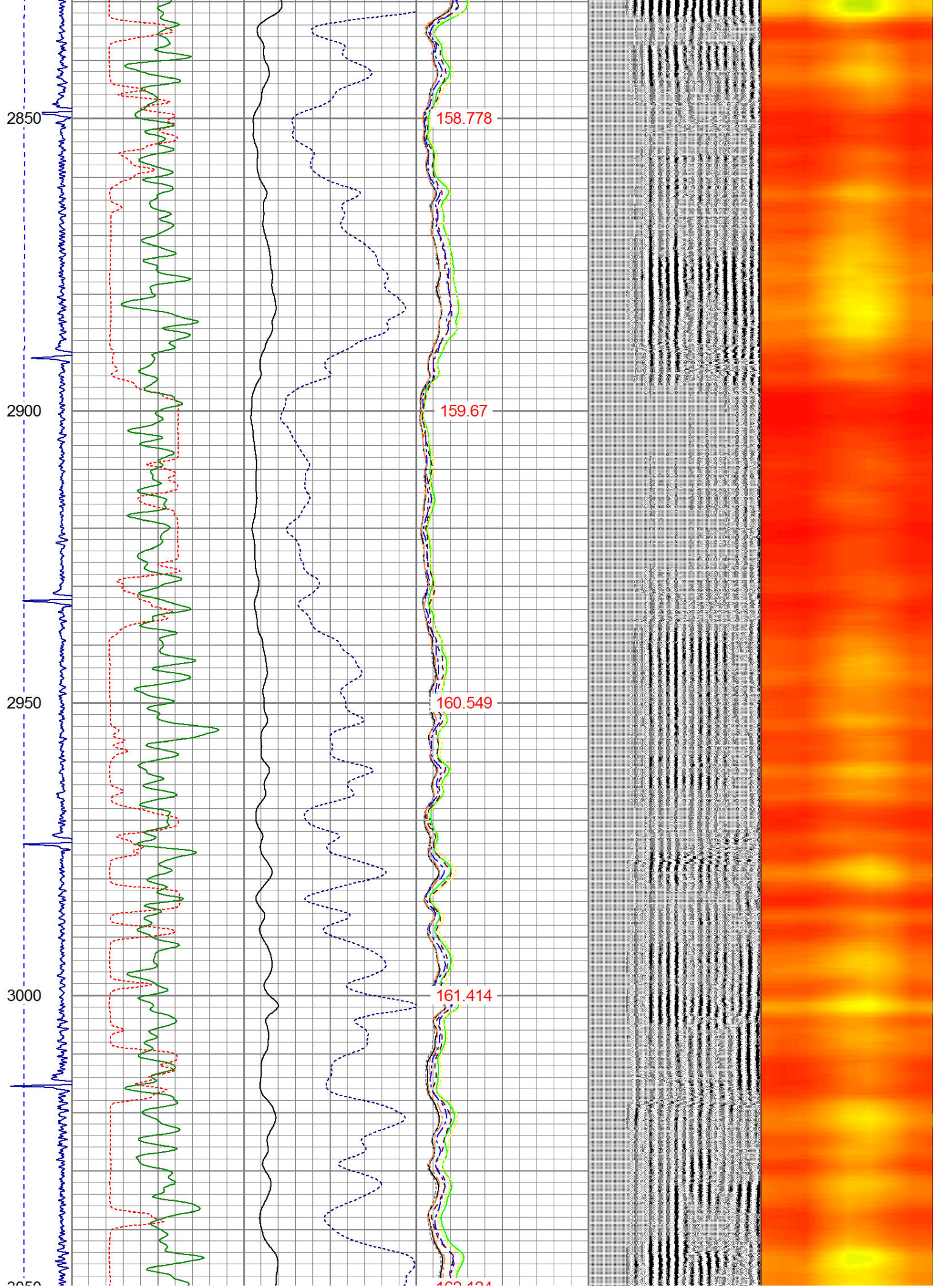


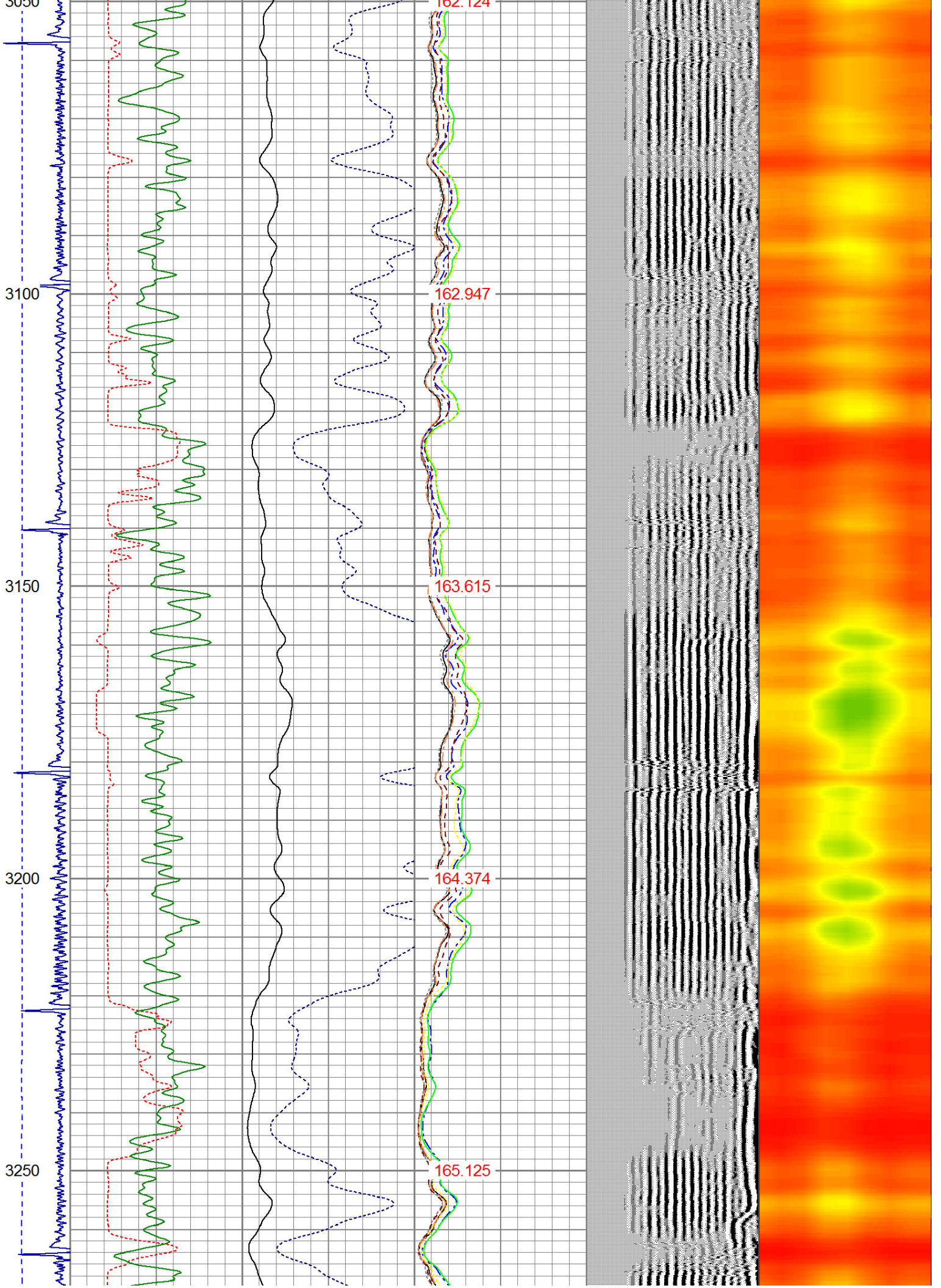


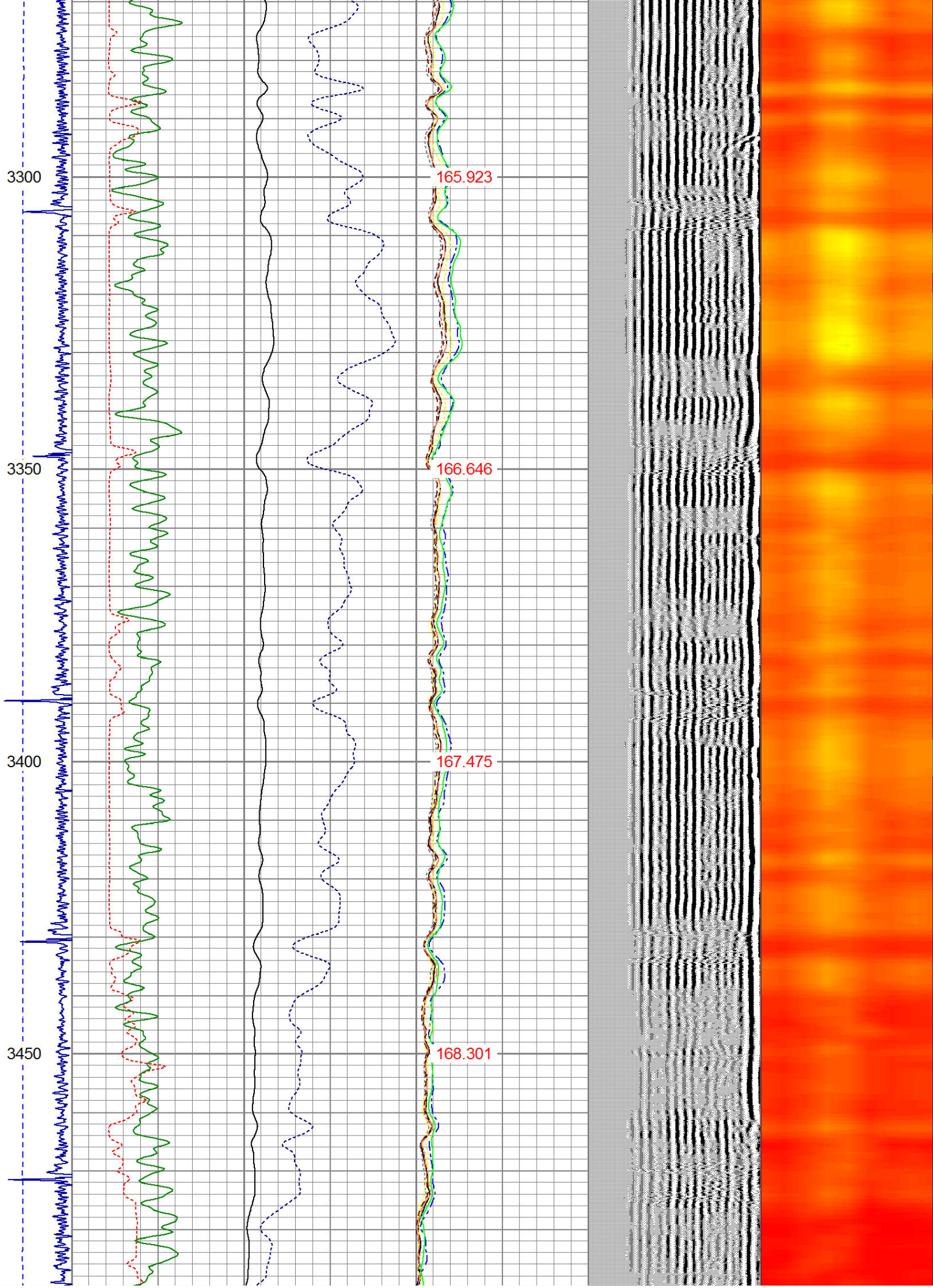


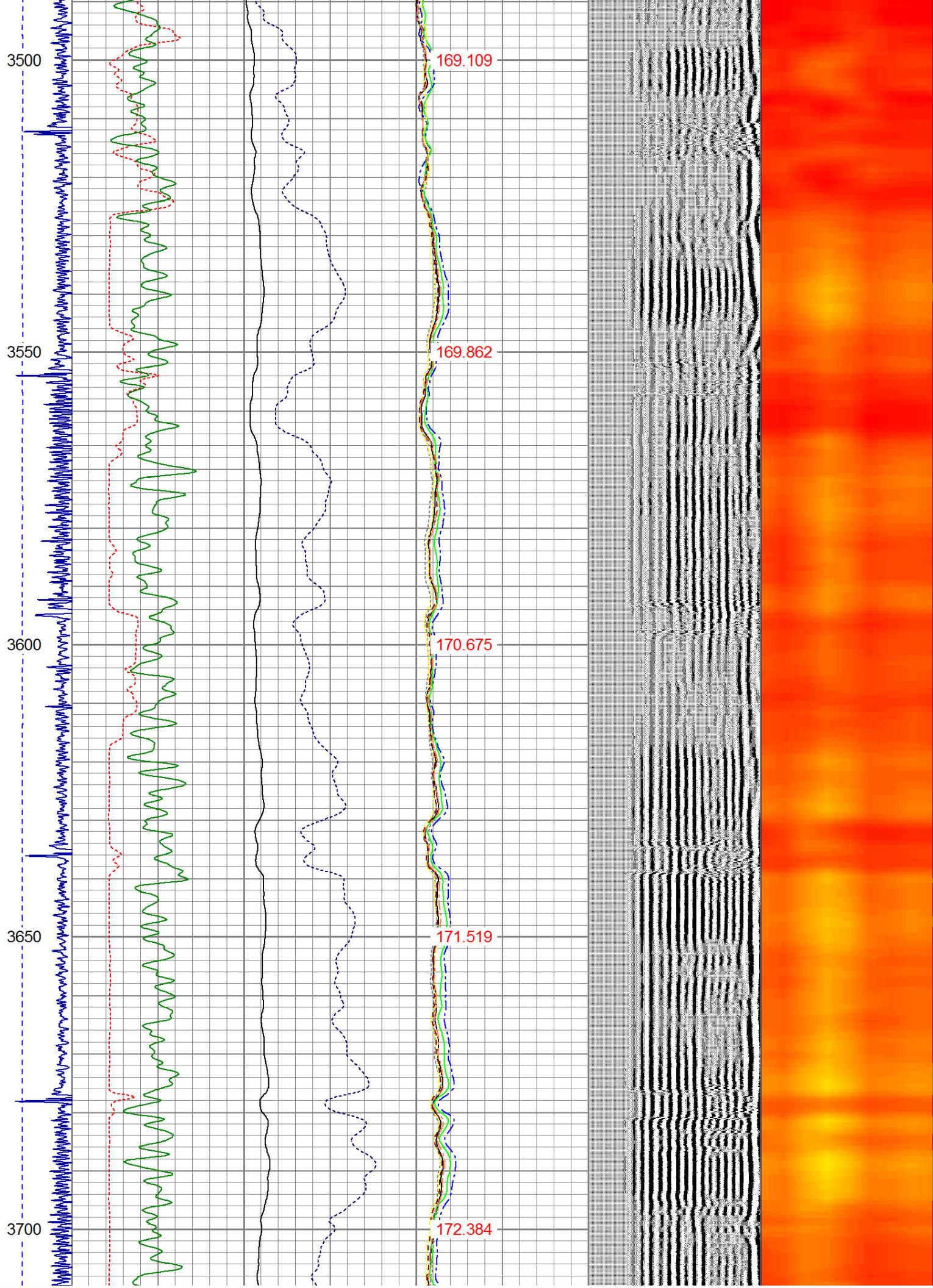


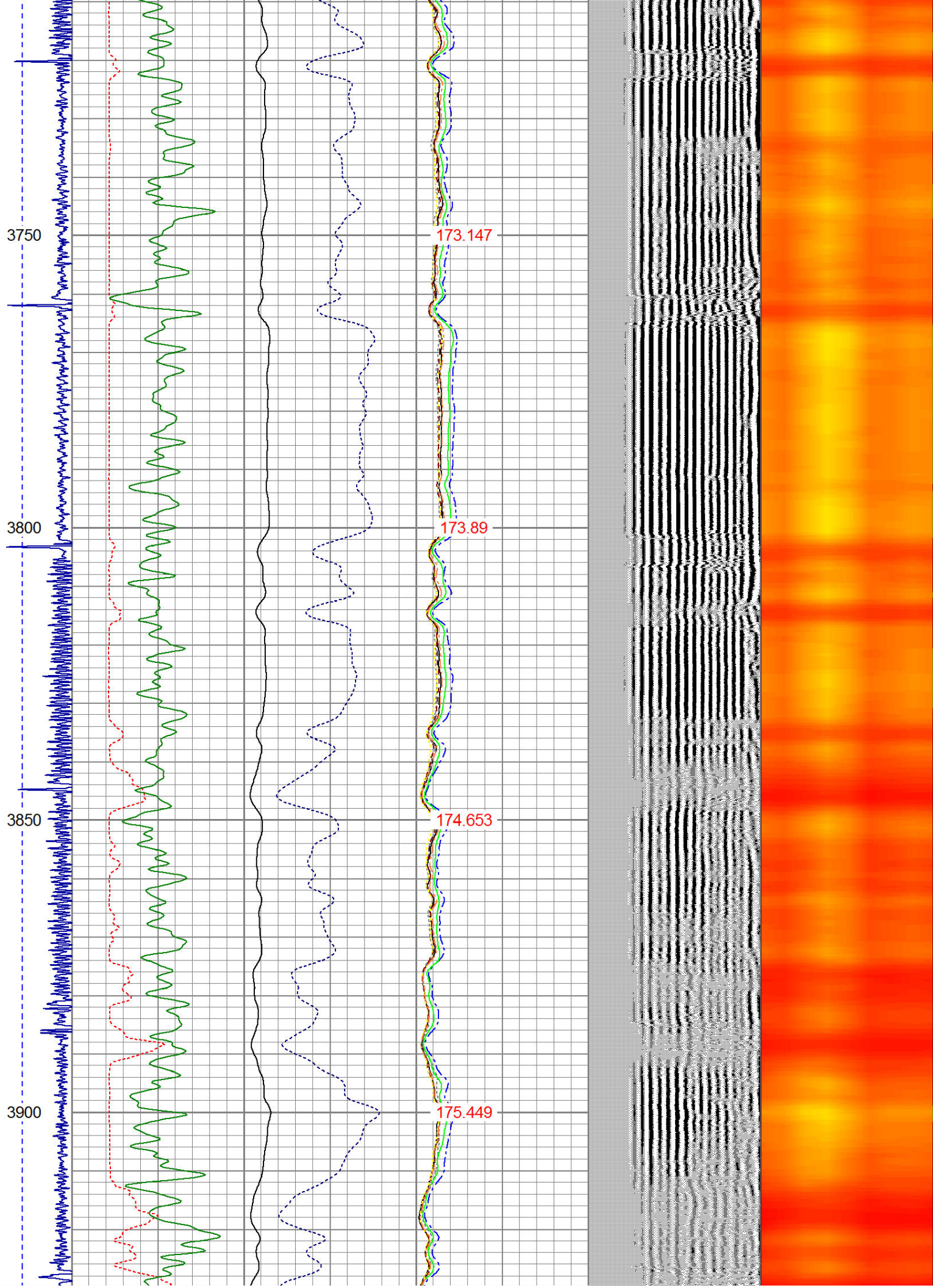


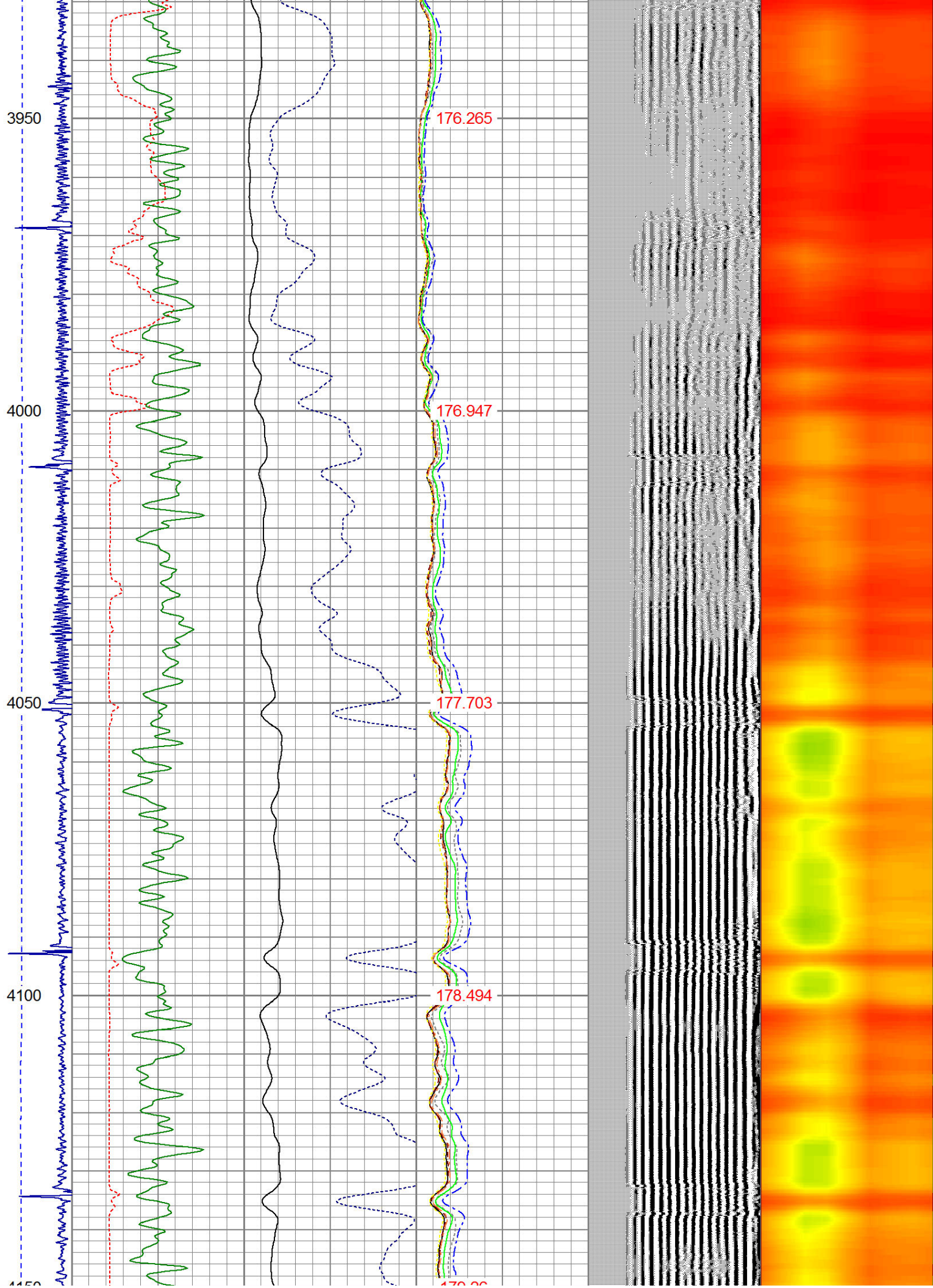


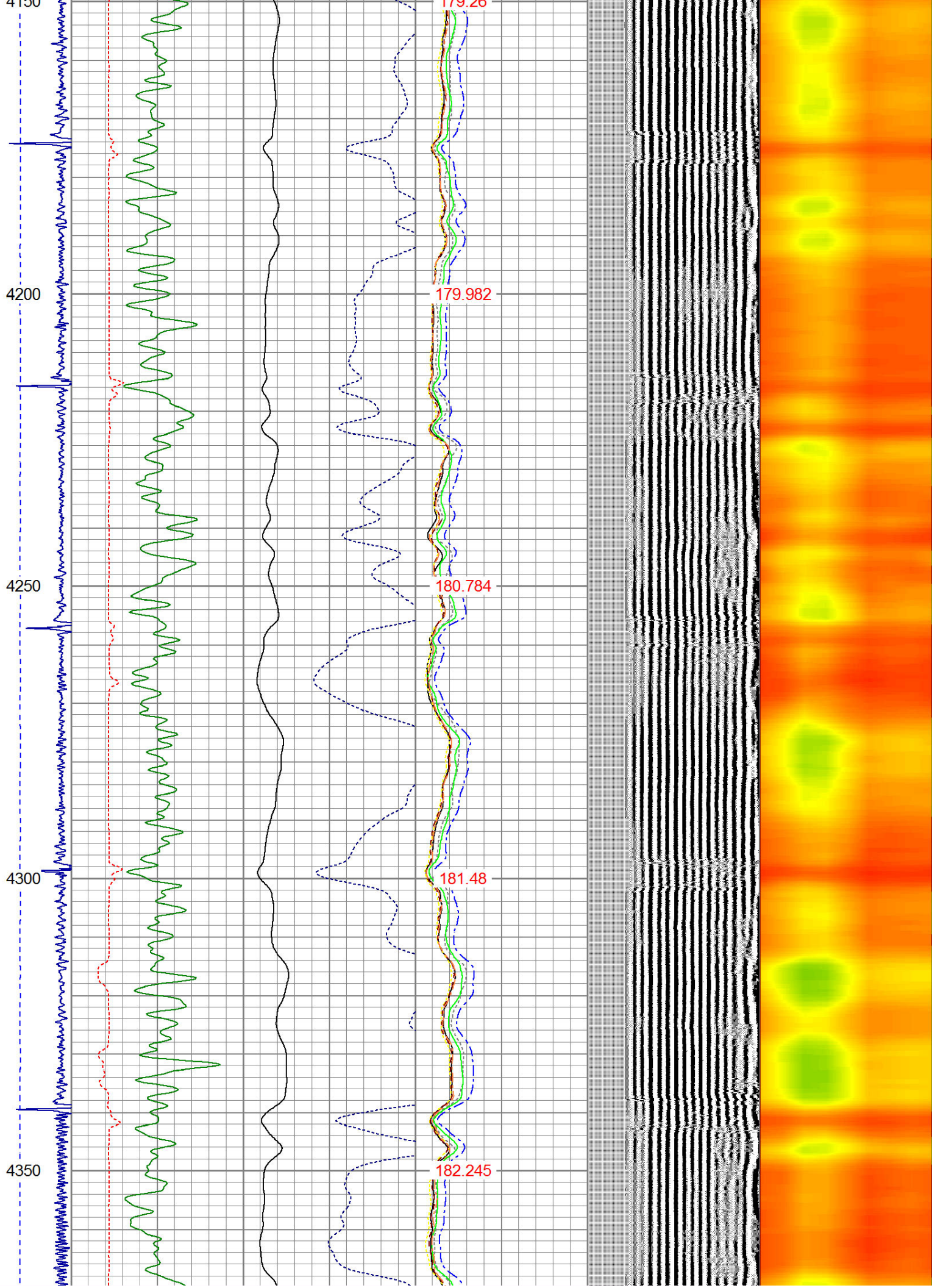


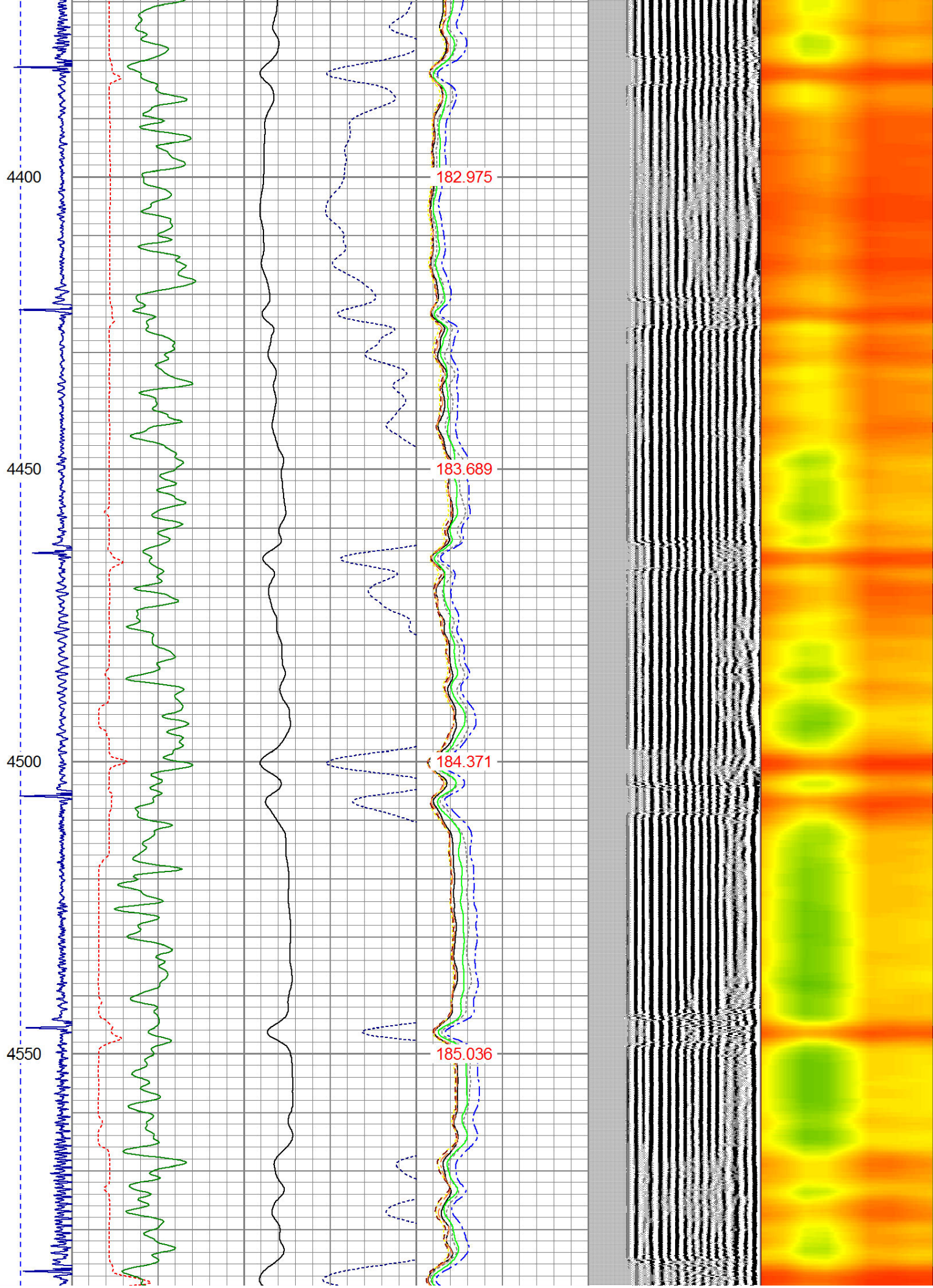


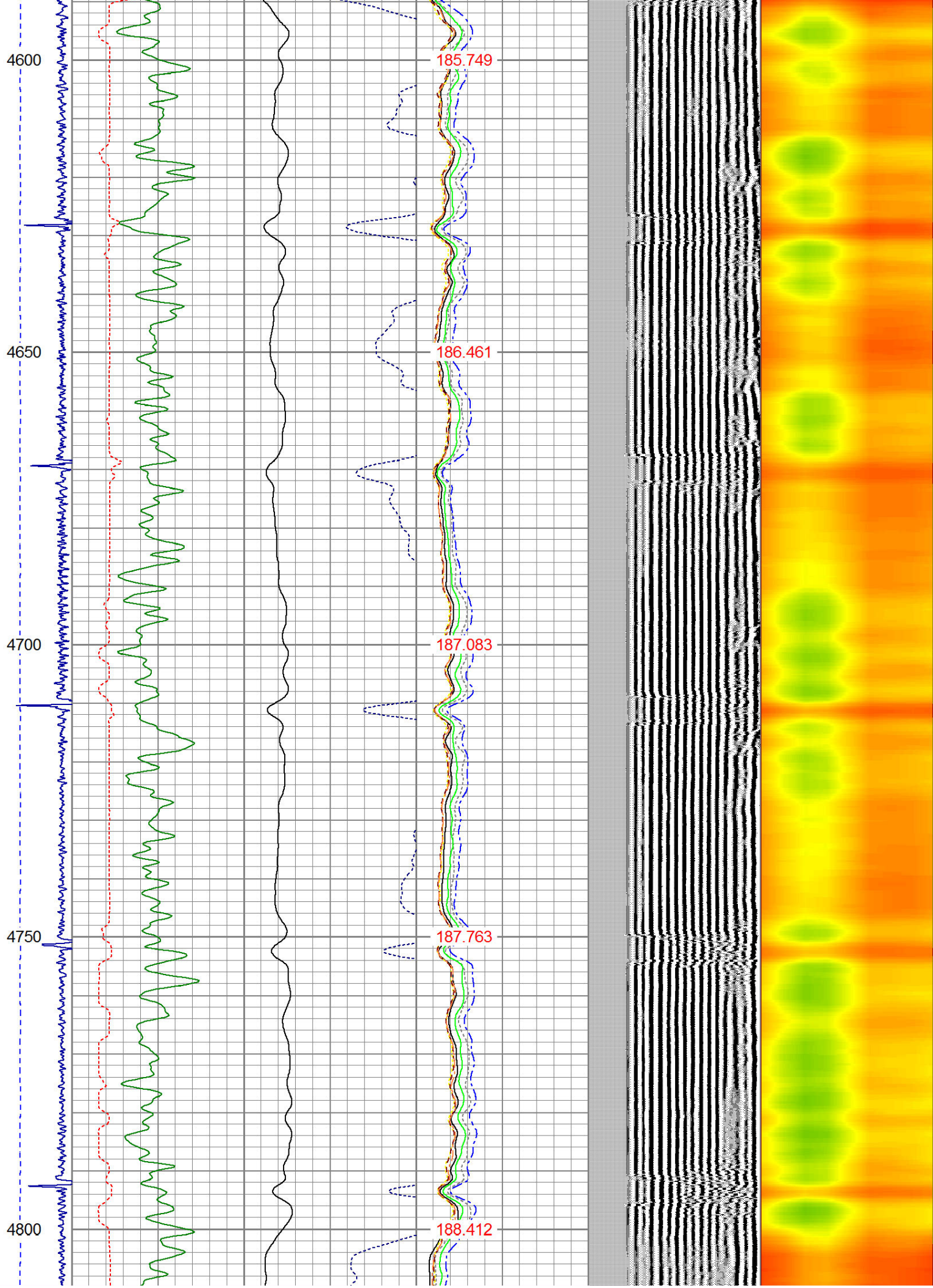


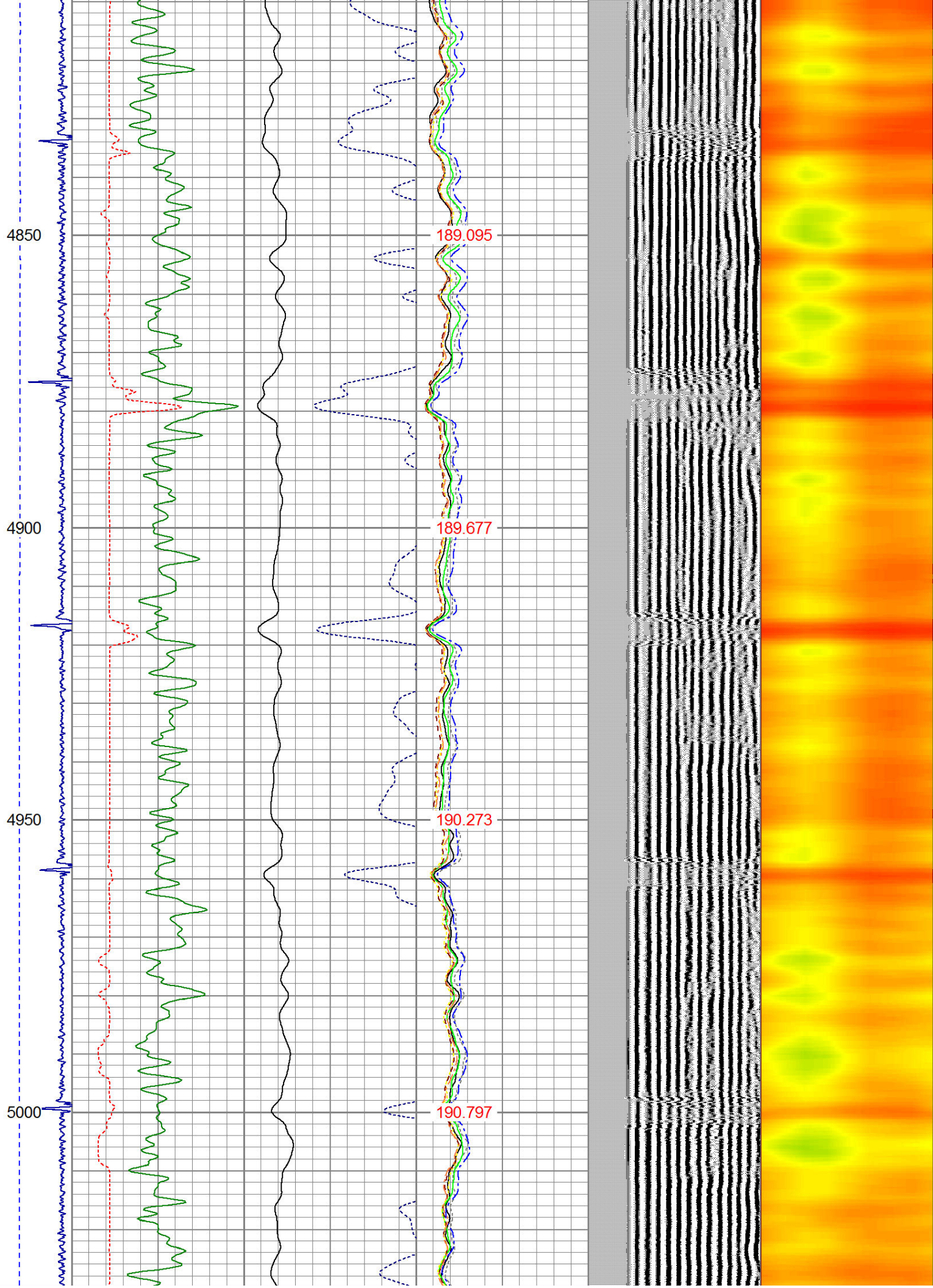


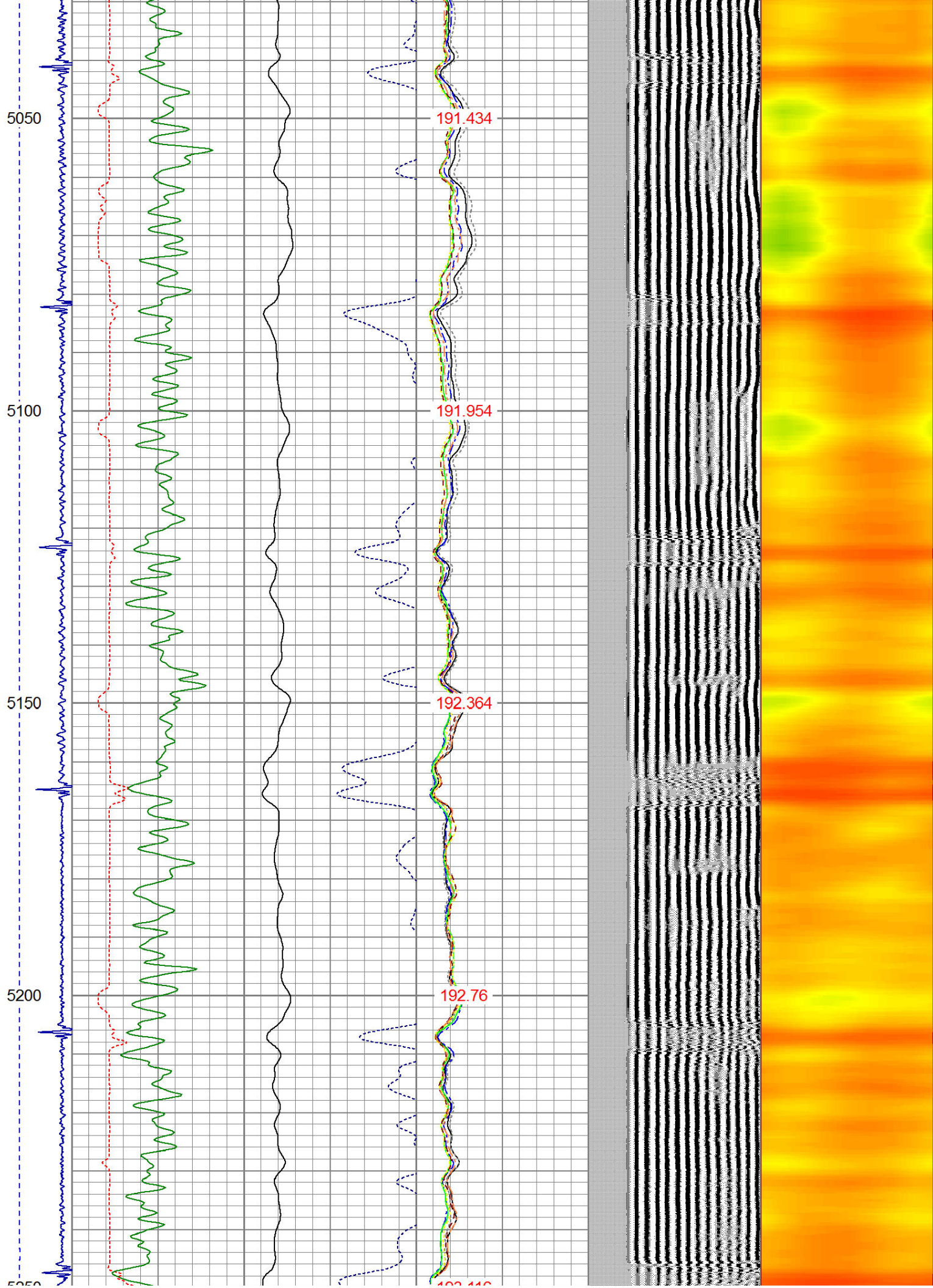


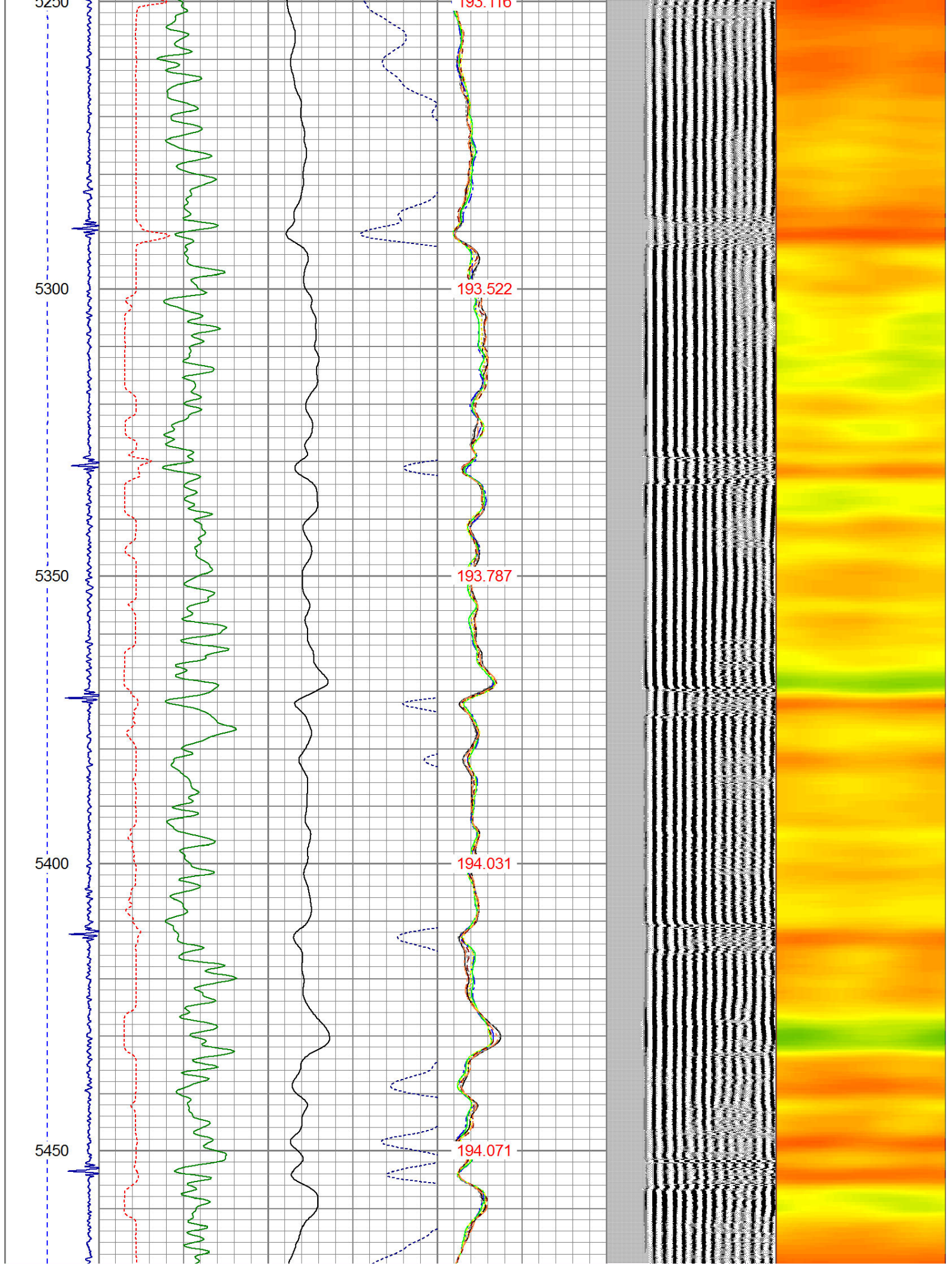


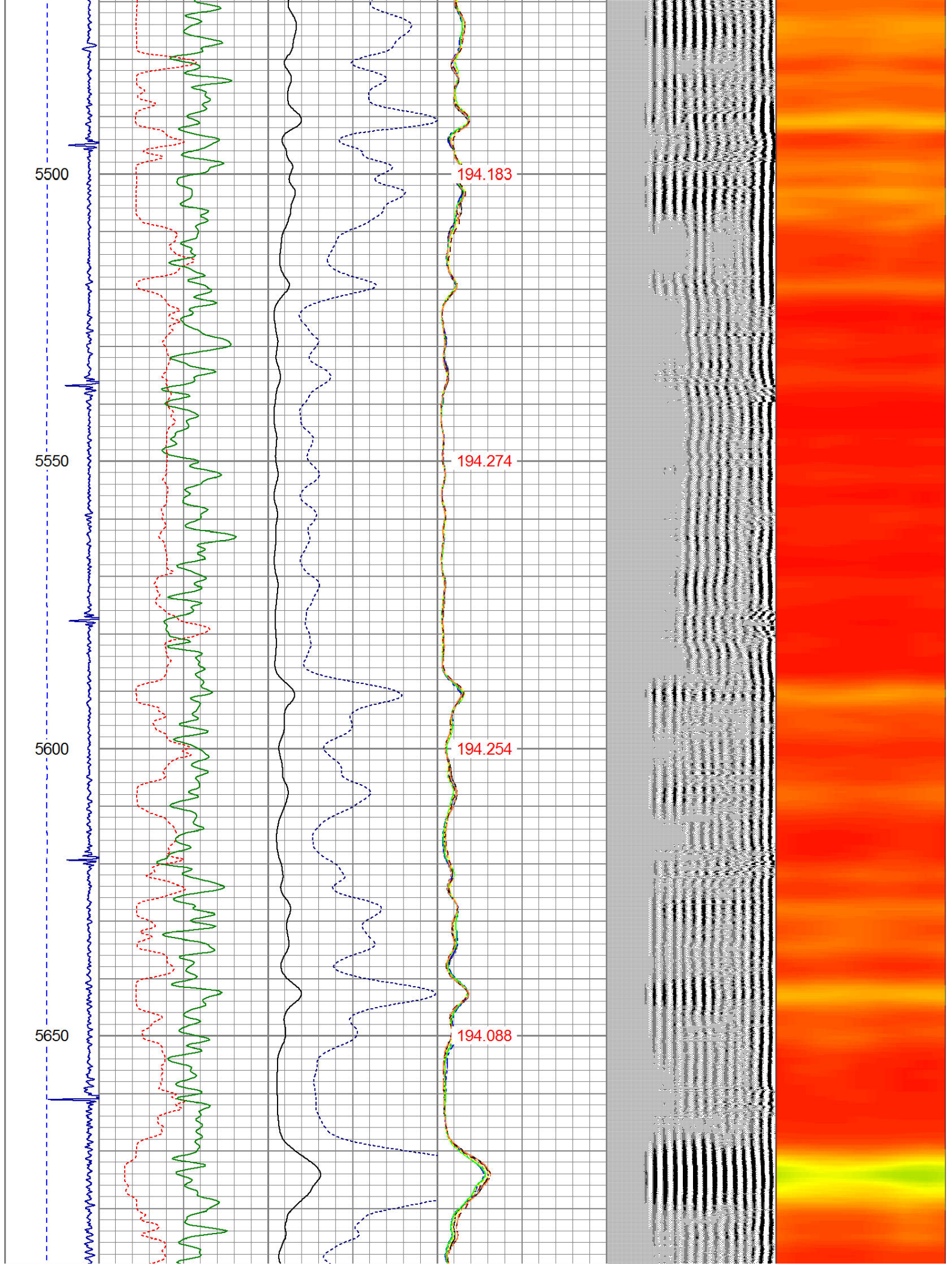


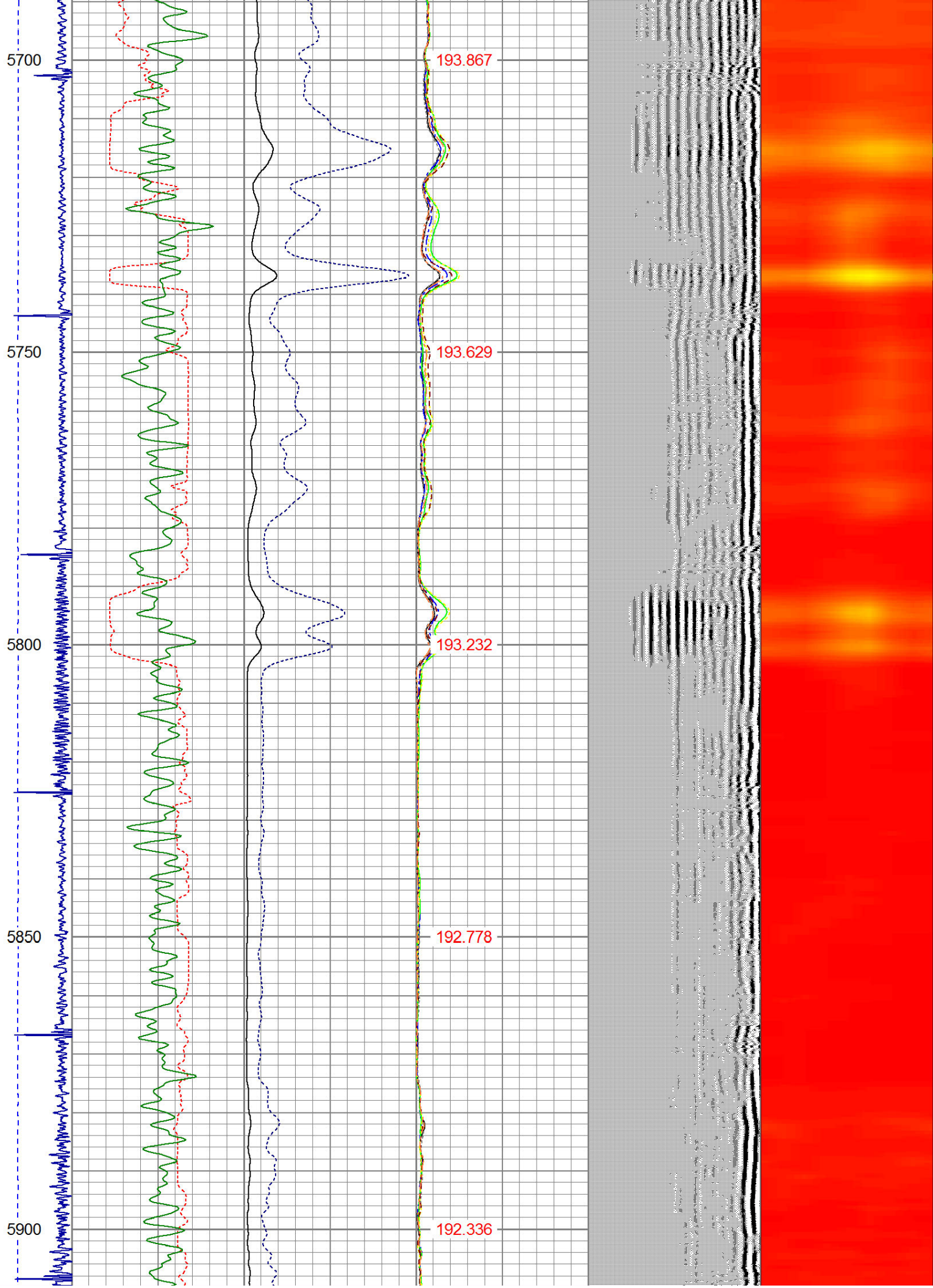












5950

6000

6050

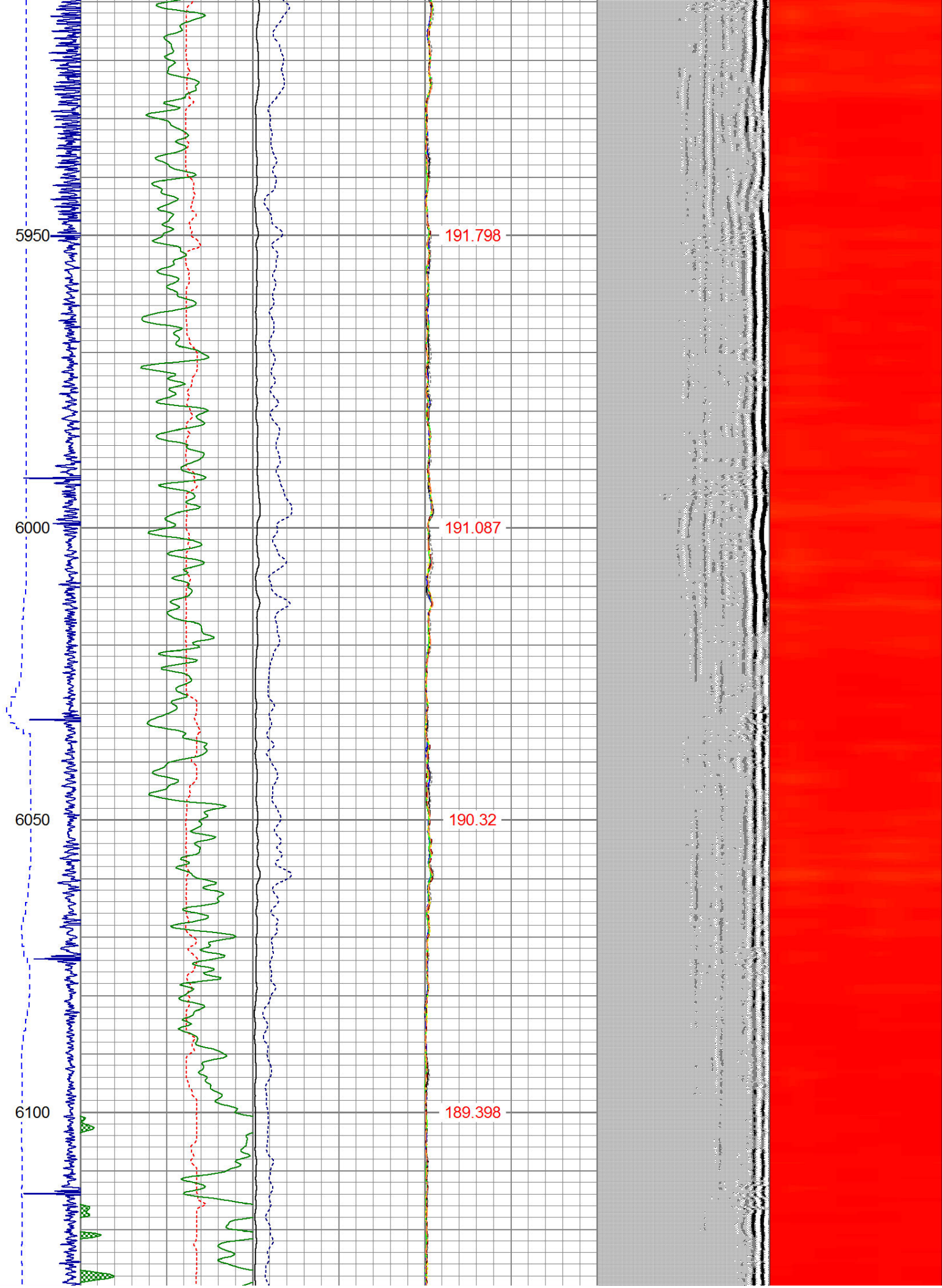
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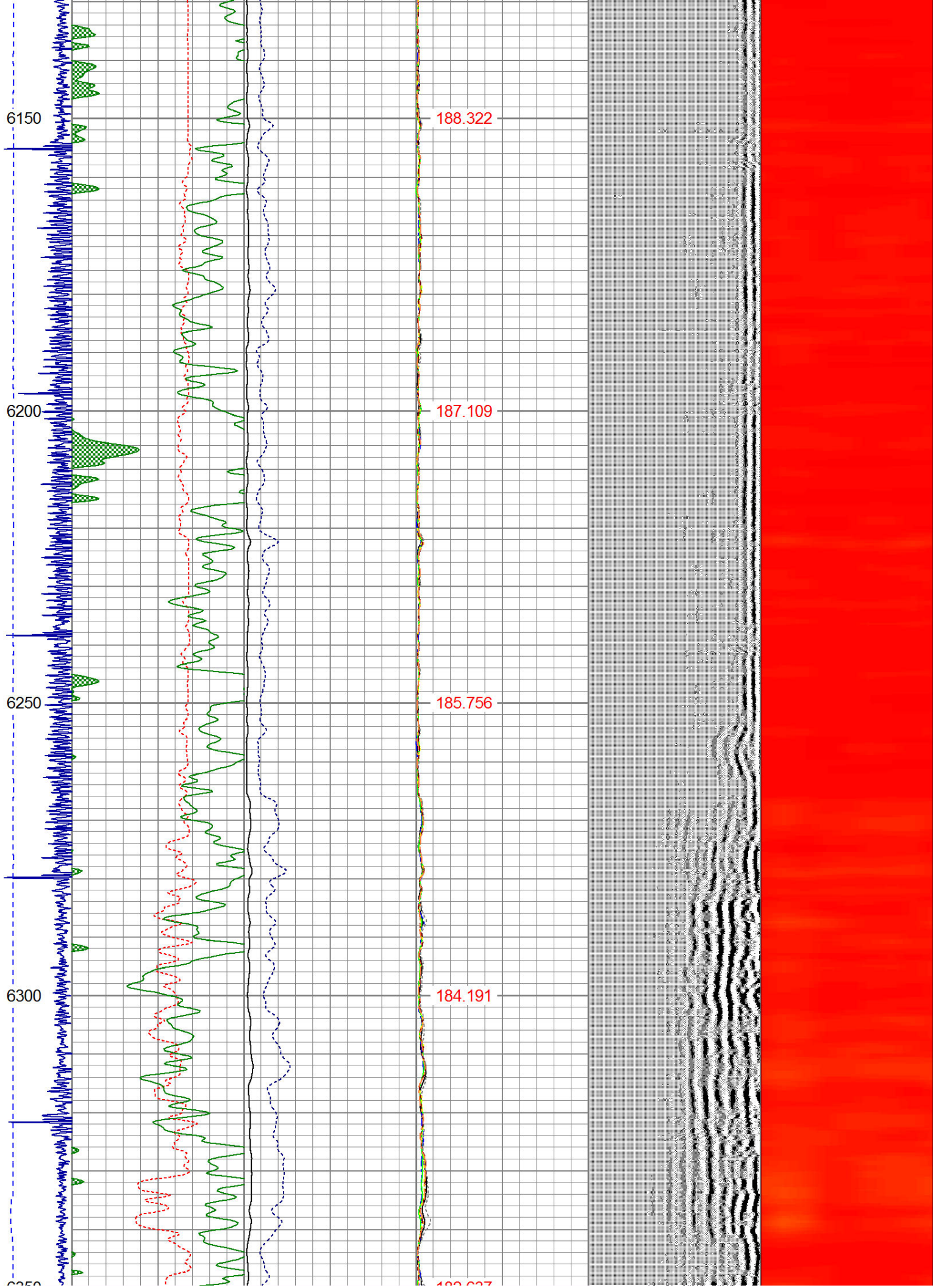
191.798

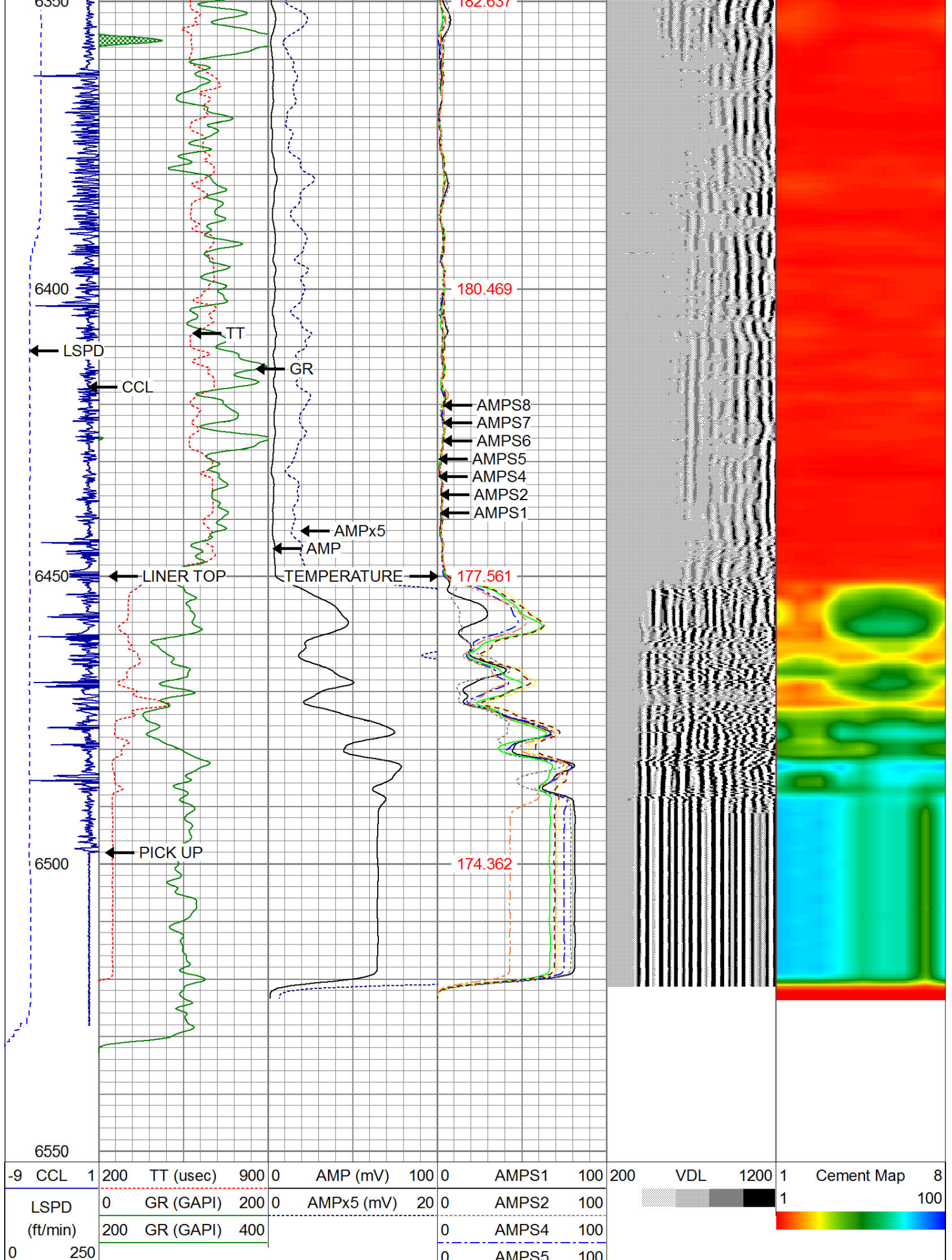
191.087

190.32

189.398







0	AMPS6	100
0	AMPS7	100
0	AMPS8	100
IntTemp		
(degF)		



WARRIOR
ENERGY SERVICES

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