

Company NOBLE ENERGY		Company NOBLE ENERGY	
Well BOIKO PC #G15-29D		Well BOIKO PC #G15-29D	
Field WATTENBERG		Field WATTENBERG	
County WELD		County WELD	
State COLORADO		State COLORADO	
Location: API # : 05-123-33714 NW/NW LAT 40.3181 LONG -104.6564		Other Services	
SEC 15 TWP 4N RGE 65W		Elevation	
Permanent Datum GL KB OF 15'		K.B. 4,740	
Log Measured From KELLY BUSHING		D.F. 4,739'	
Drilling Measured From		G.L. 4,725	
Date 3-11-2020	Run Number ONE		
Depth Driller 7.883'	Depth Logger 2.620'		
Bottom Logged Interval 2.616'	Top Log Interval SURFACE		
Open Hole Size 7 7/8"	Type Fluid WATER		
Density / Viscosity 1.0	Max. Recorded Temp. 100° F		
Estimated Cement Top NA	Time Well Ready NA		
Time Logger on Bottom NA	Equipment Number 3813		
Location GREILEY CO	Recorded By JKERR		
Witnessed By J. JACOBS			
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#	SURFACE 7'18"
Prot. String			
Production String 4.5"		11.6#	SURFACE 7.873'
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.

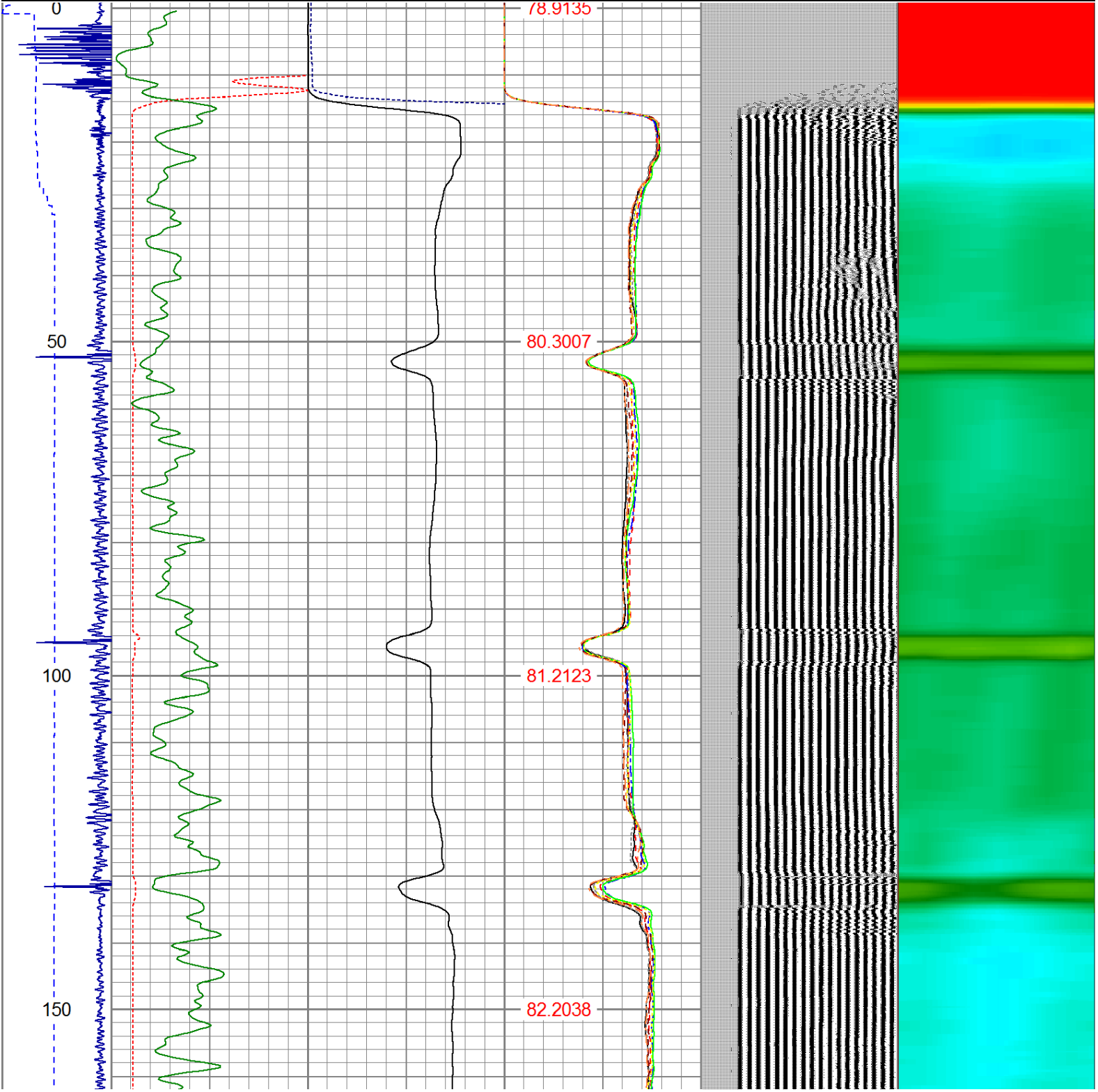
Comments

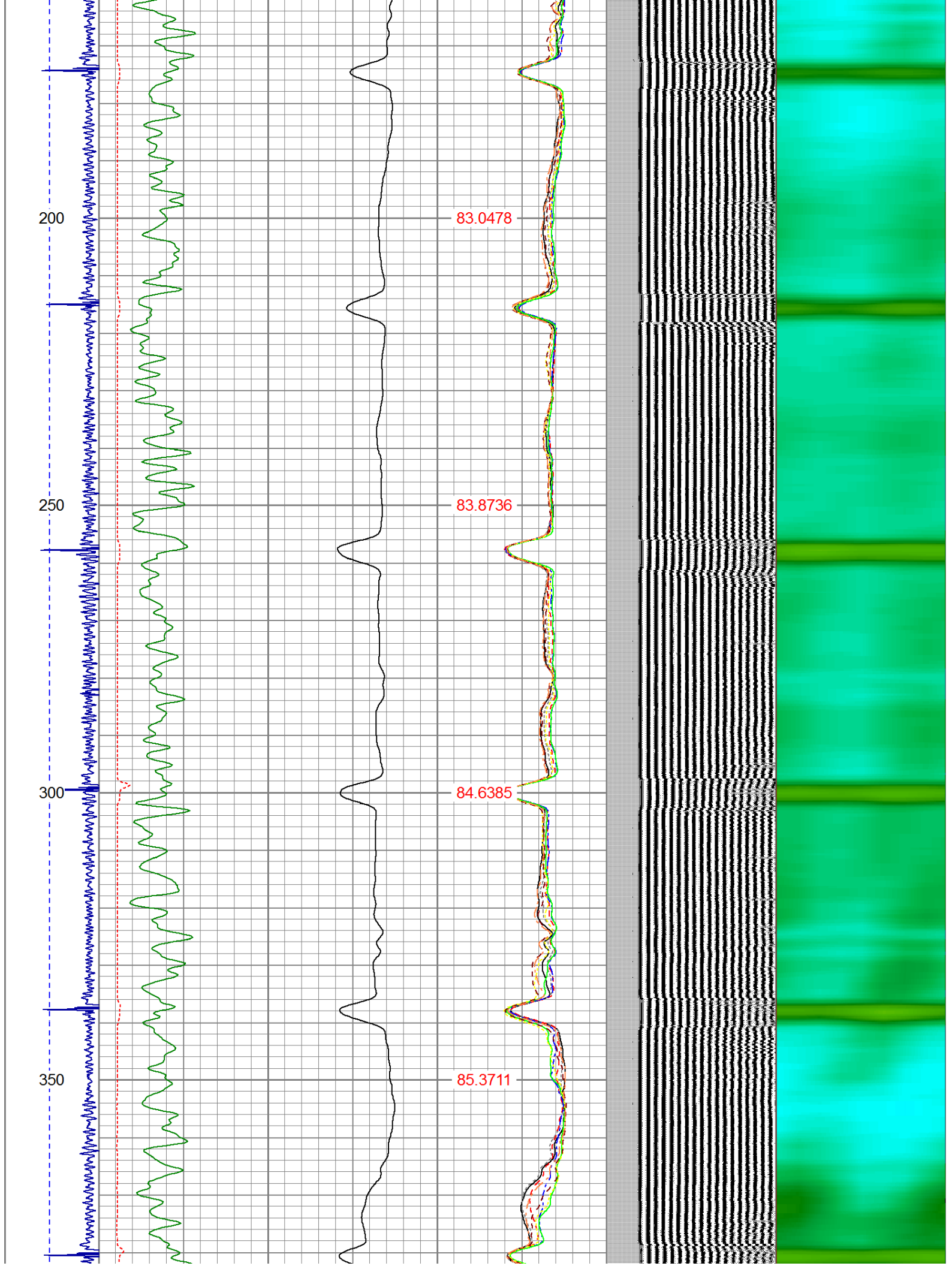
RAN CBL TO VERIFY CEMENT BOND
CORRELATED TO SUPERIOR CBL RAN ON SEPT. 29, 2011

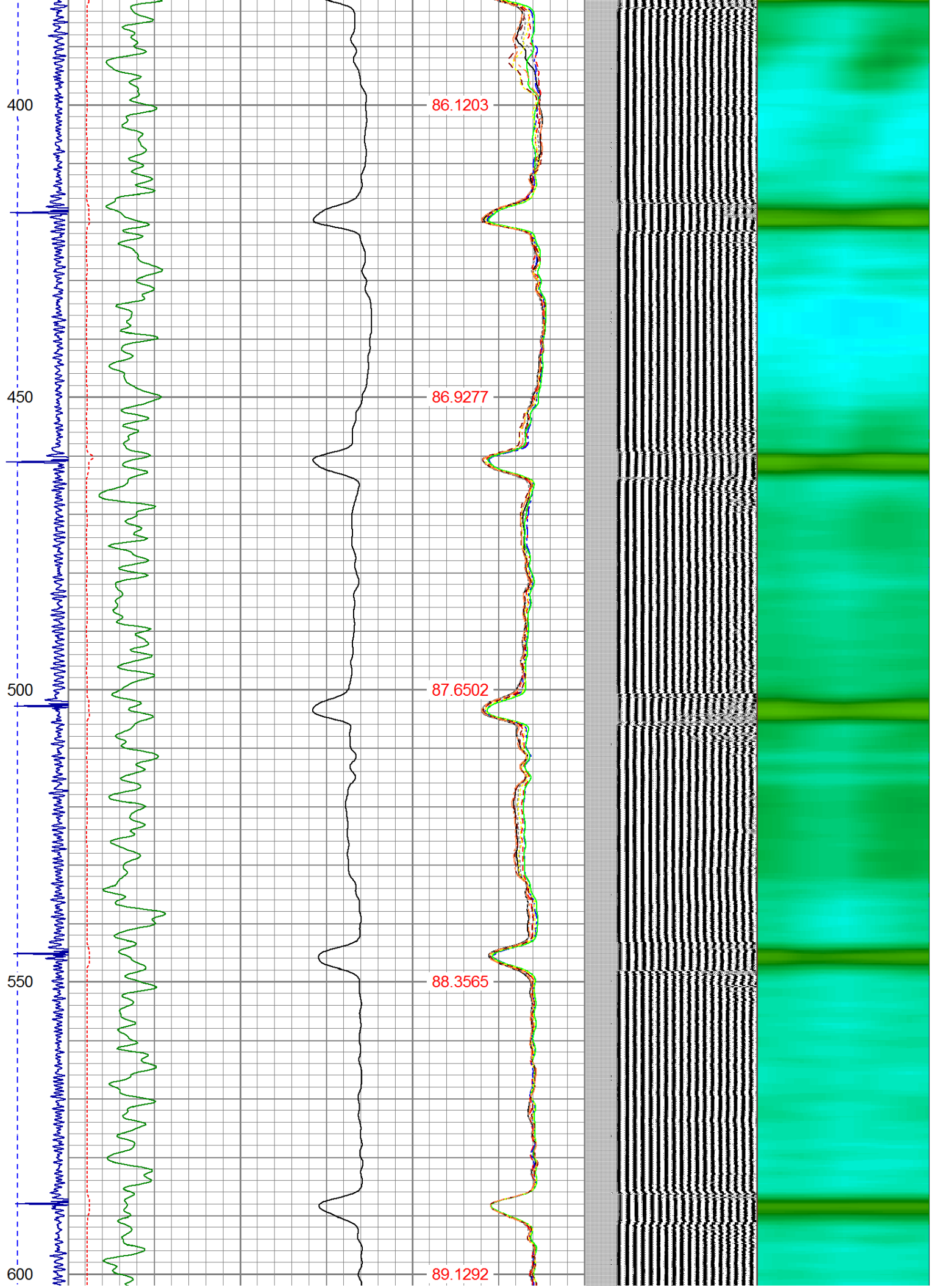
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HEAD/VOI	15.13		1_4	1.00	1.36	5.00

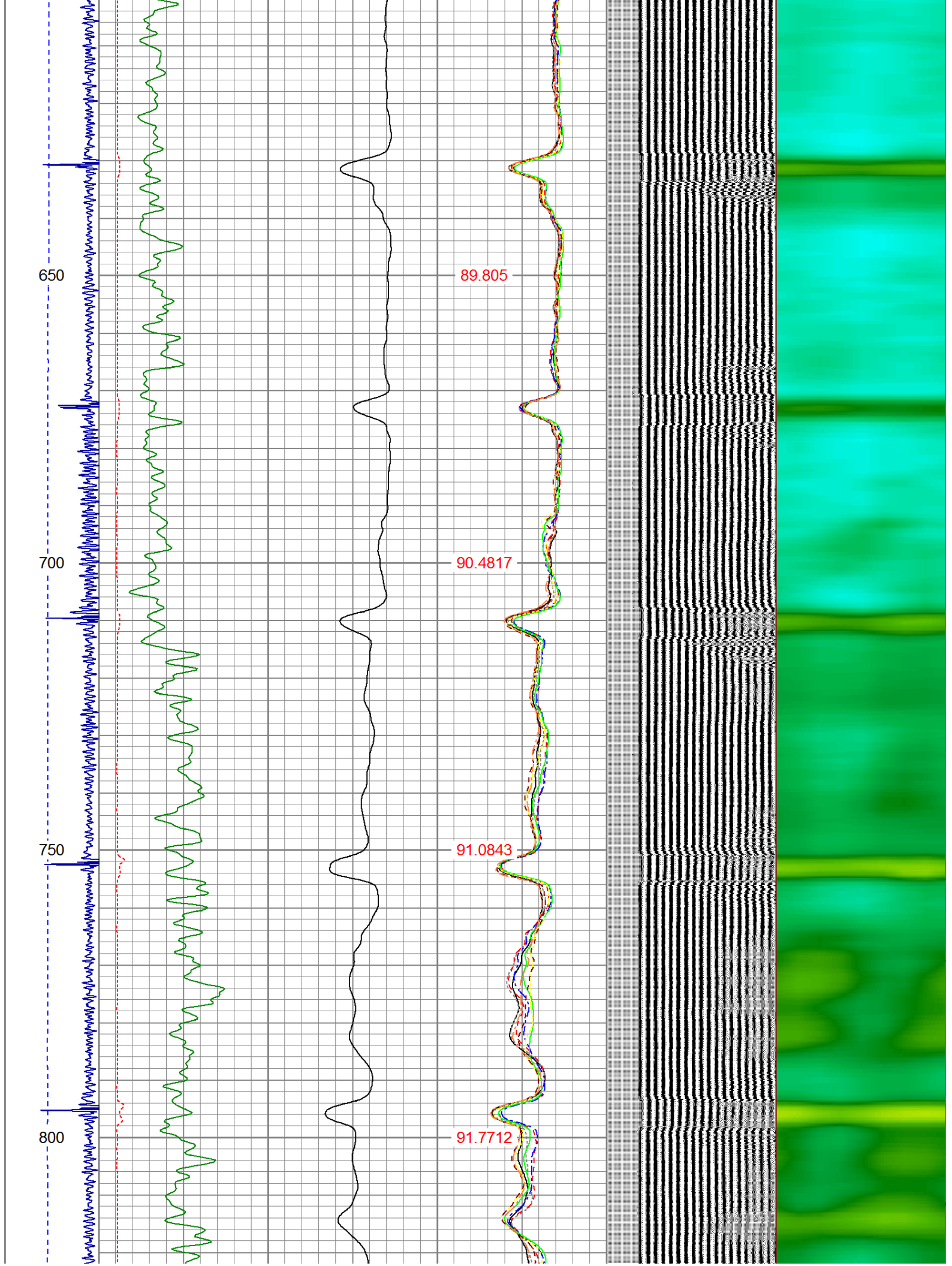
HEADVOLT	10.15					
IntTemp	14.71					
WVF3FT	11.46					
WVFCAL	11.46					
WVFS1	11.46					
WVFS2	11.46					
WVFS3	11.46					
WVFS4	11.46					
WVFS5	11.46					
WVFS6	11.46					
WVFS7	11.46					
WVFS8	11.46					
WVF5FT	10.46					
CNLSC	6.00					
CNSSC	5.17					
CCL	3.64					
GR	0.90					
Dataset: Total Length: Total Weight: O.D. boiko pc g15-29d.db: field/well/run1/pass34 17.13 ft 165.00 lb 2.75 in						

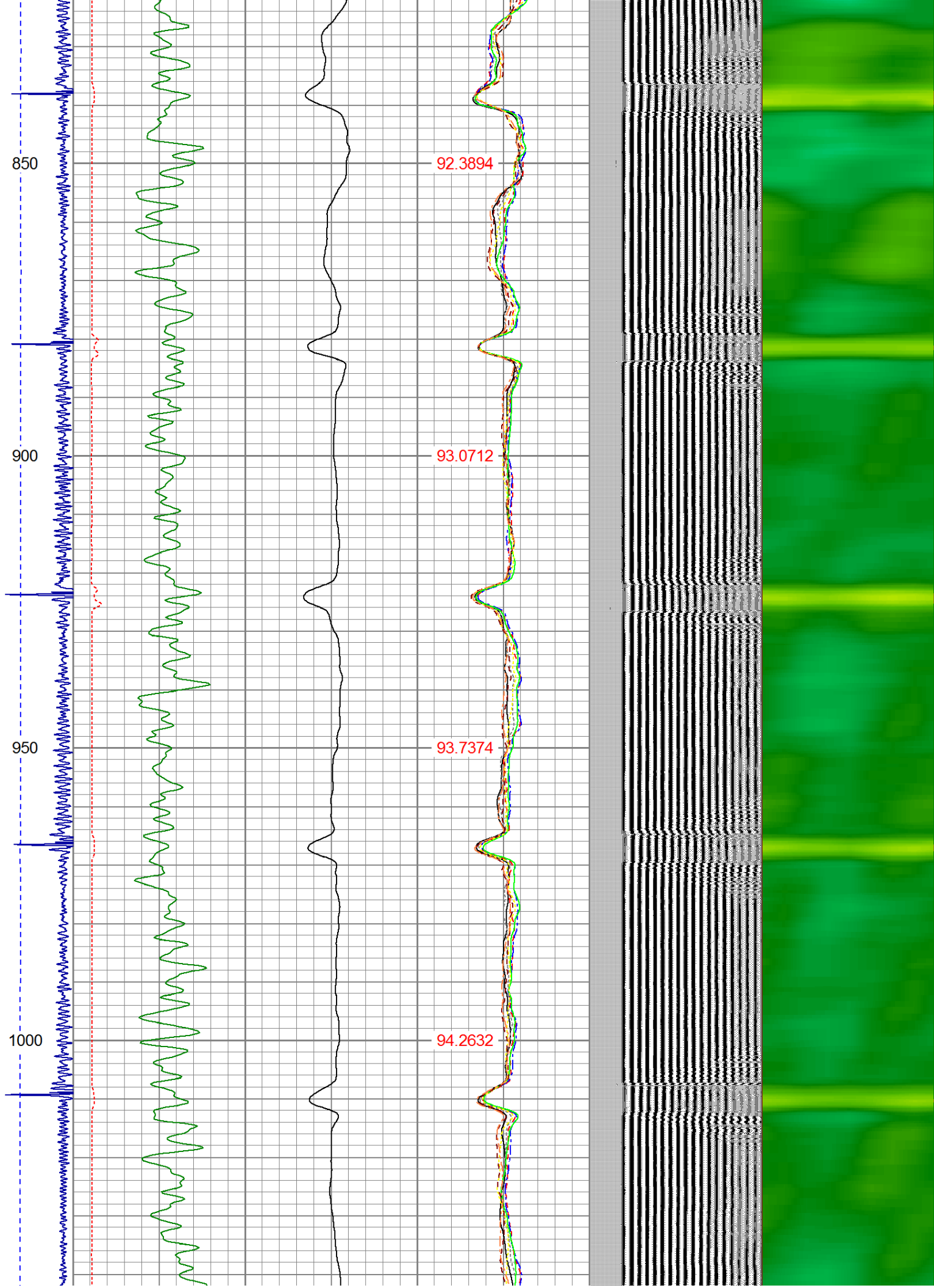
Dataset Creation: Wed Mar 11 11:38:30 2020 by Log SCH 120126																																	
Charted by: Depth in Feet scaled 1:240																																	
-9	CCL	1	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8																
LSPD (ft/min)	0		0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100					1		100															
	200		200	GR (GAPI)	400				0	AMPS3	100																						
										0	AMPS4									100													
										0	AMPS5									100													
										0	AMPS6									100													
										0	AMPS7									100													
										0	AMPS8									100													
											IntTemp																						
											(degF)																						

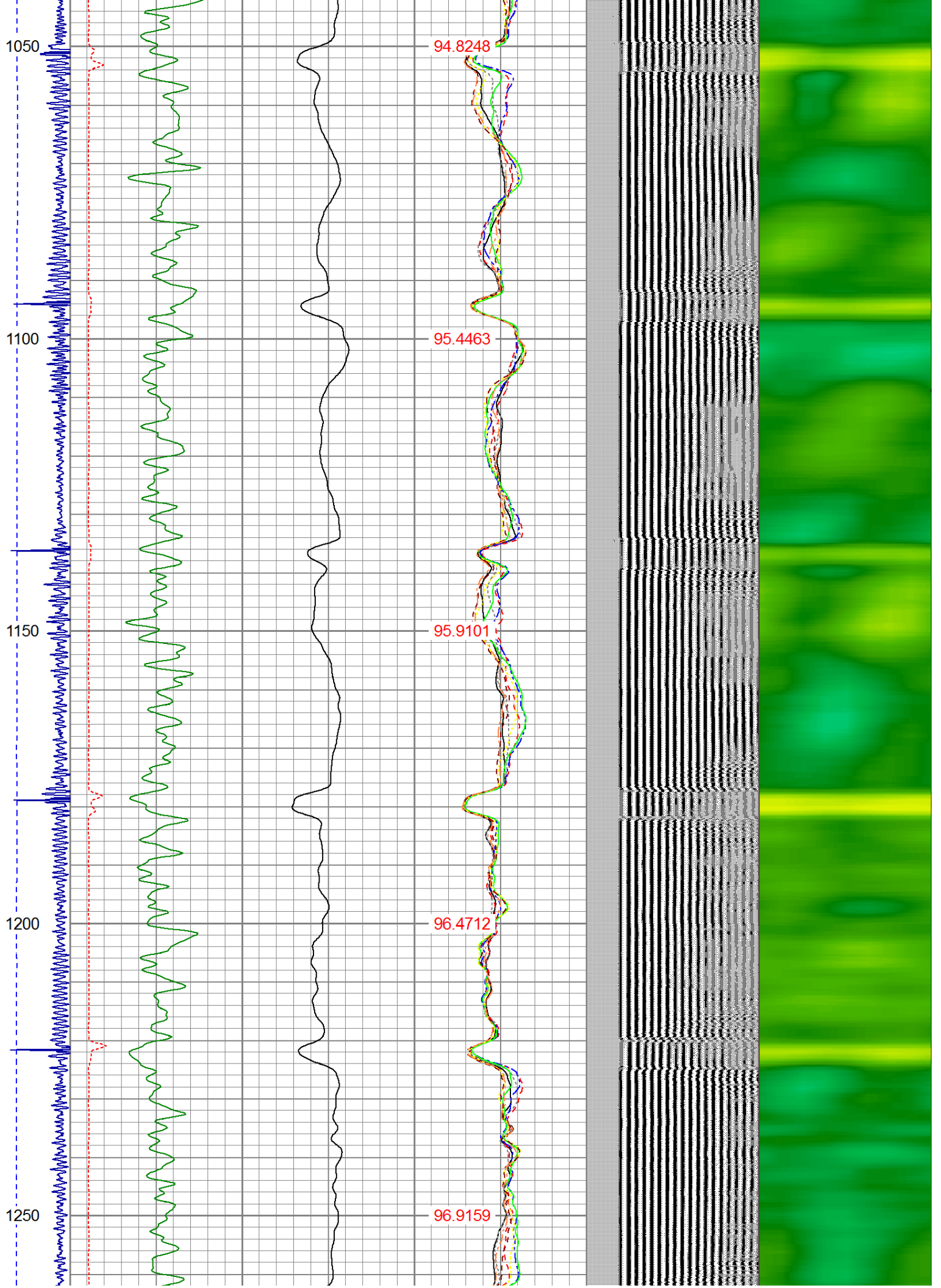


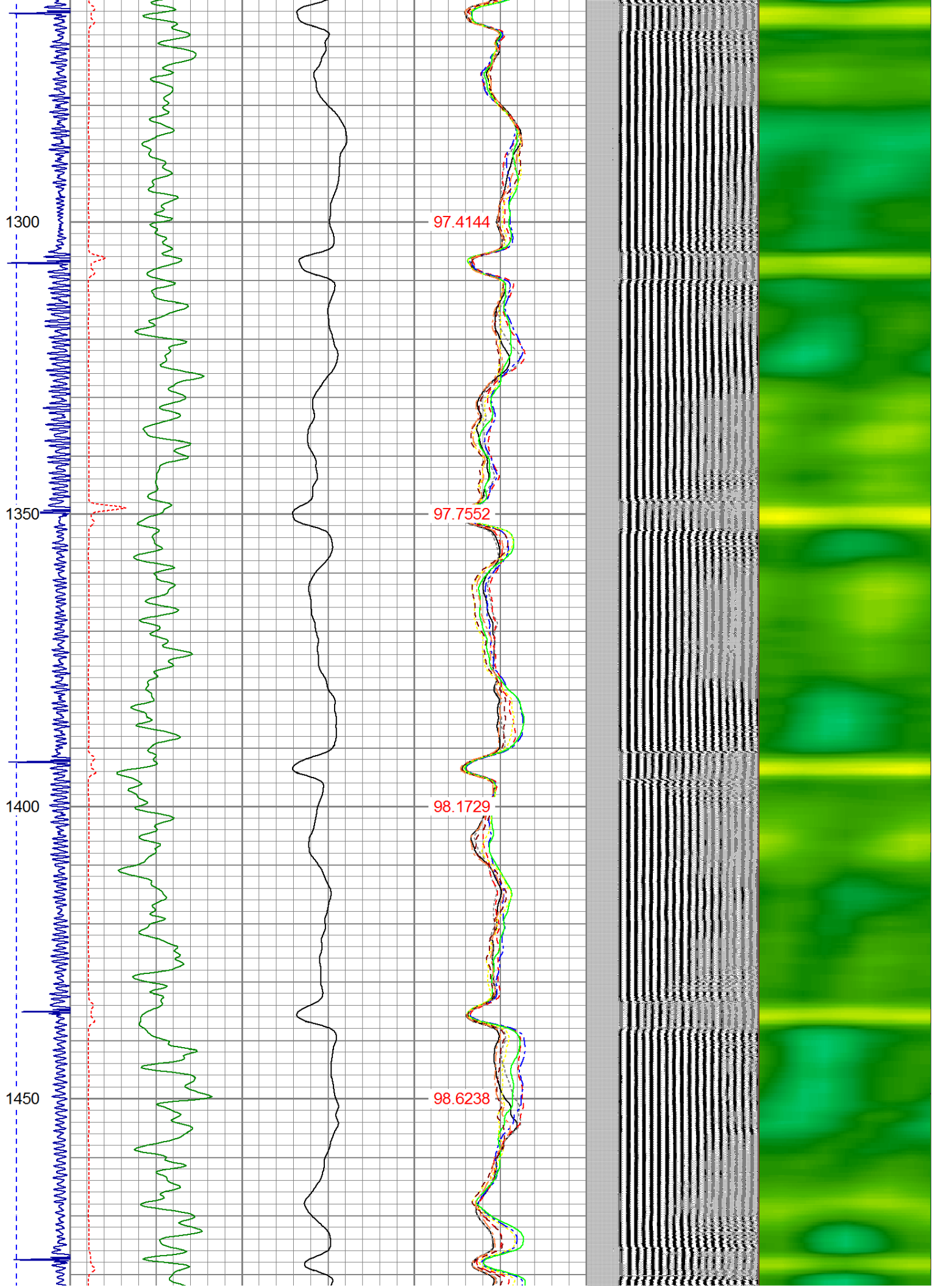


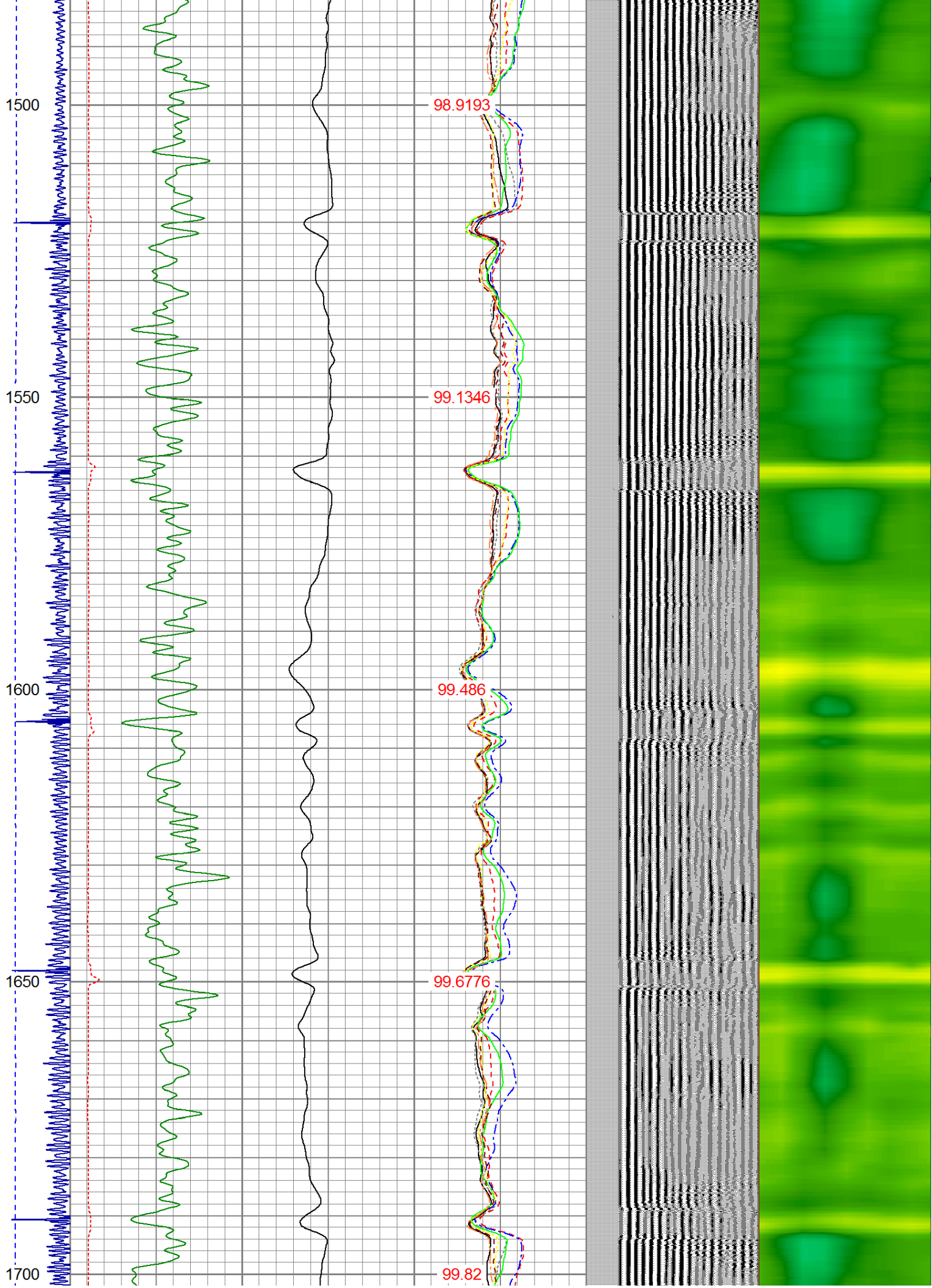


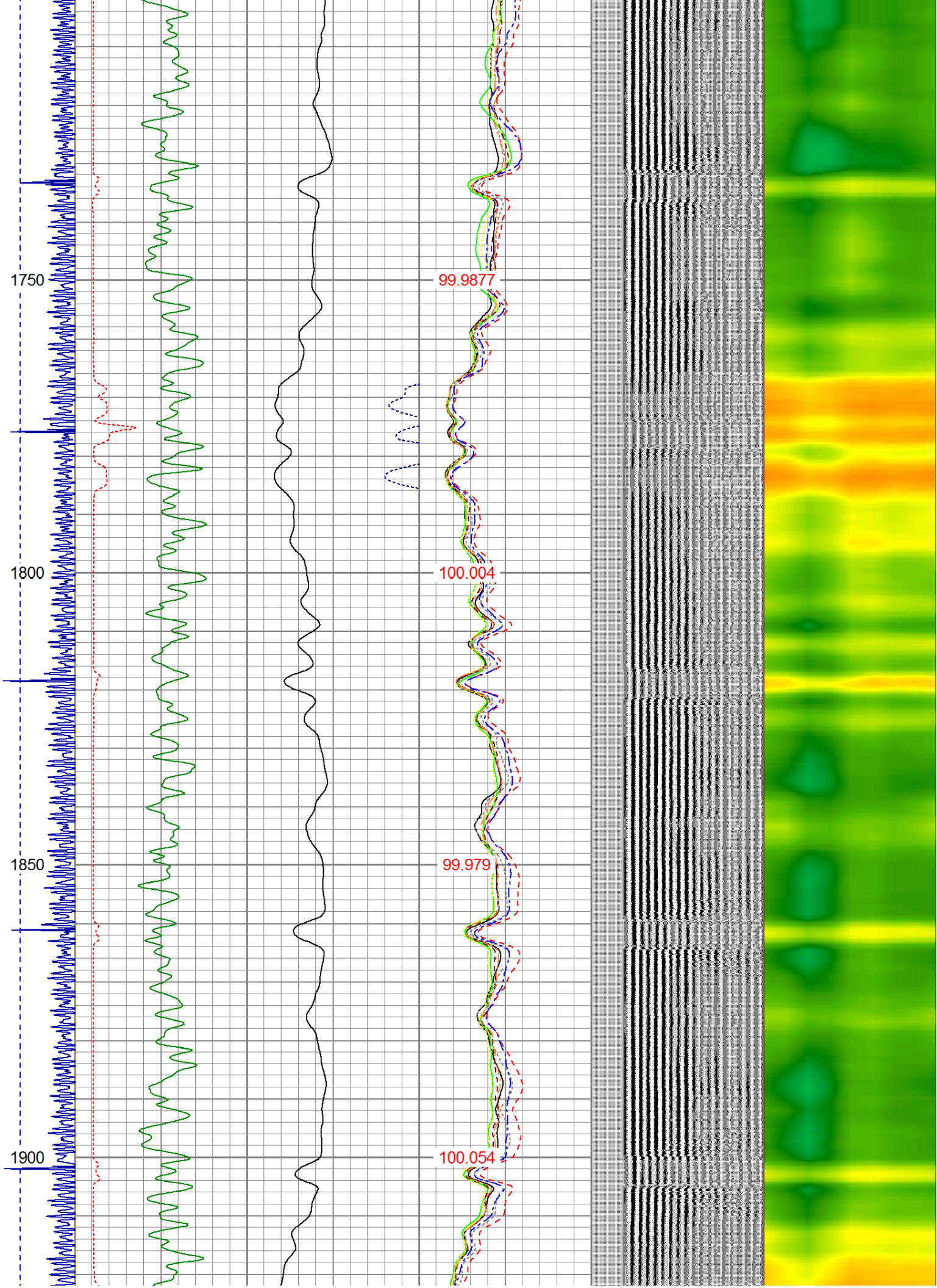


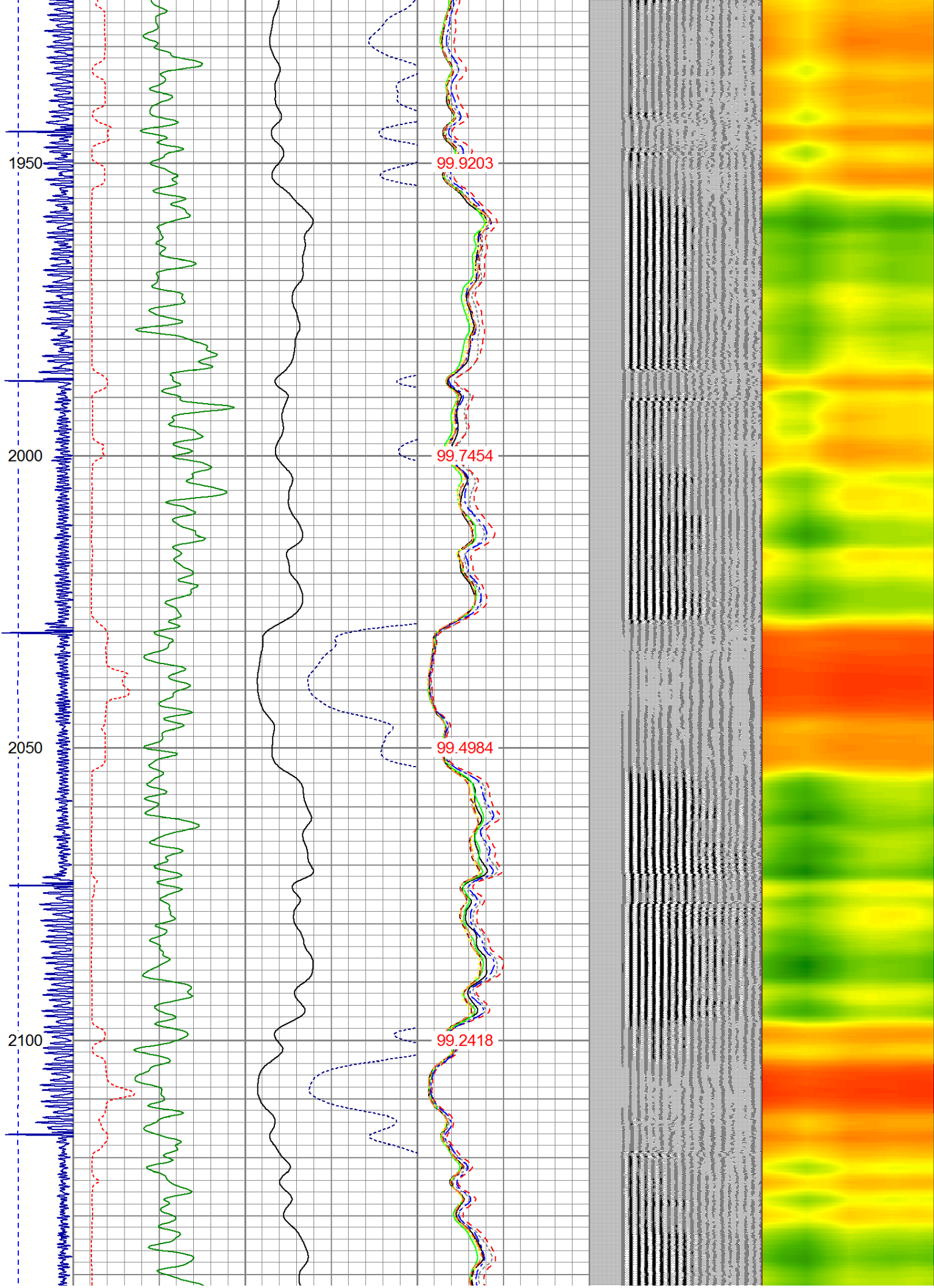


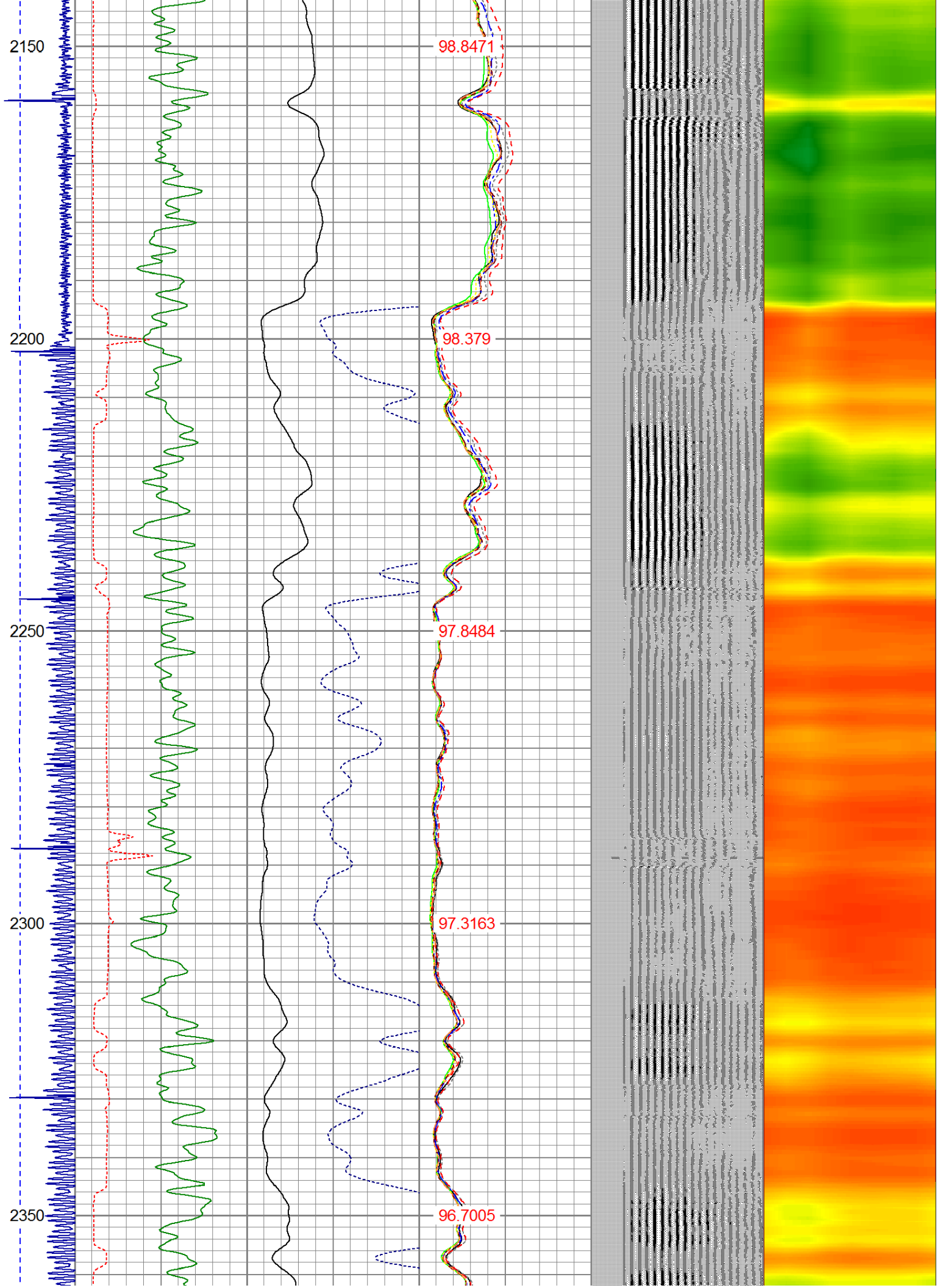


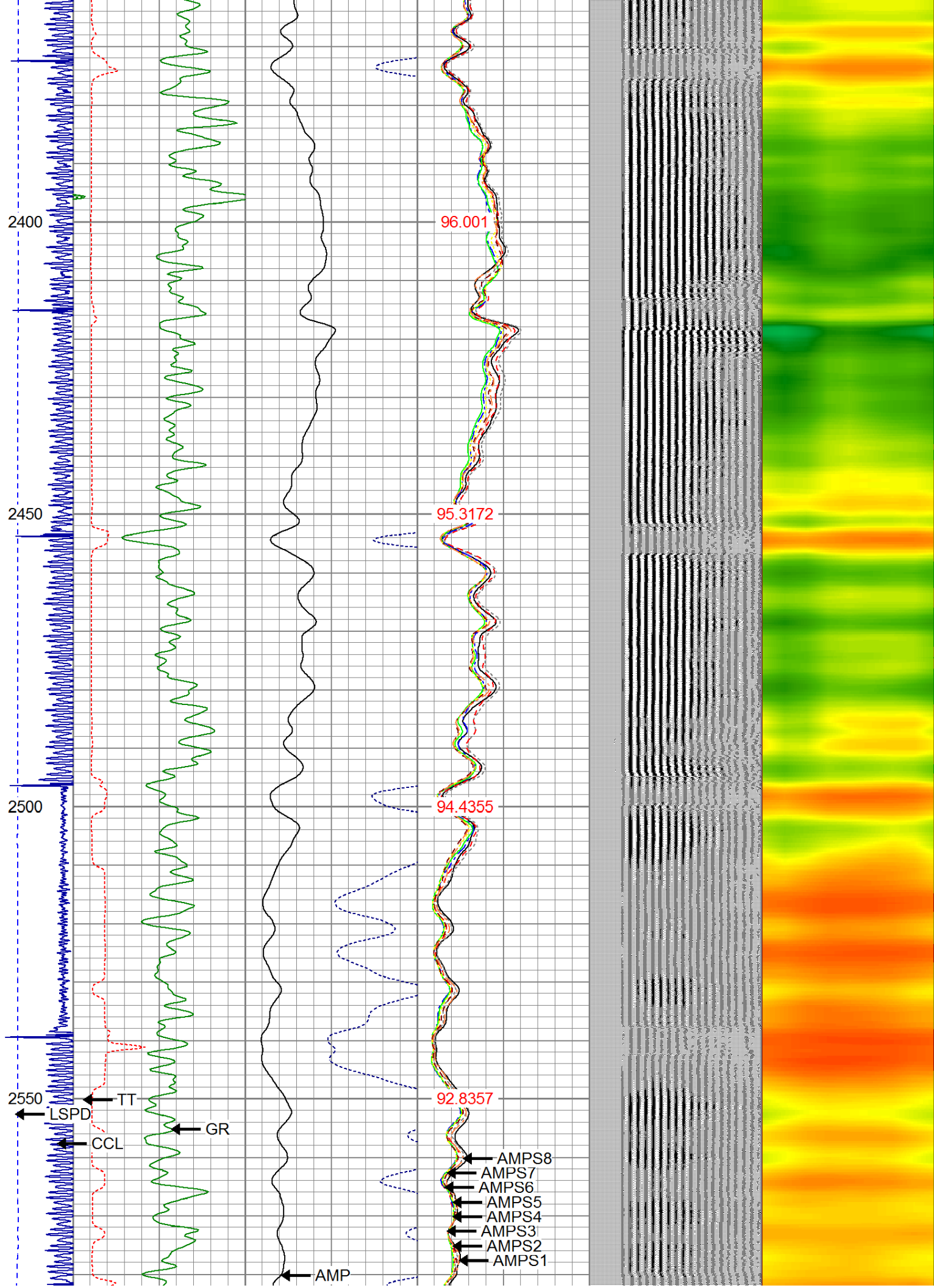


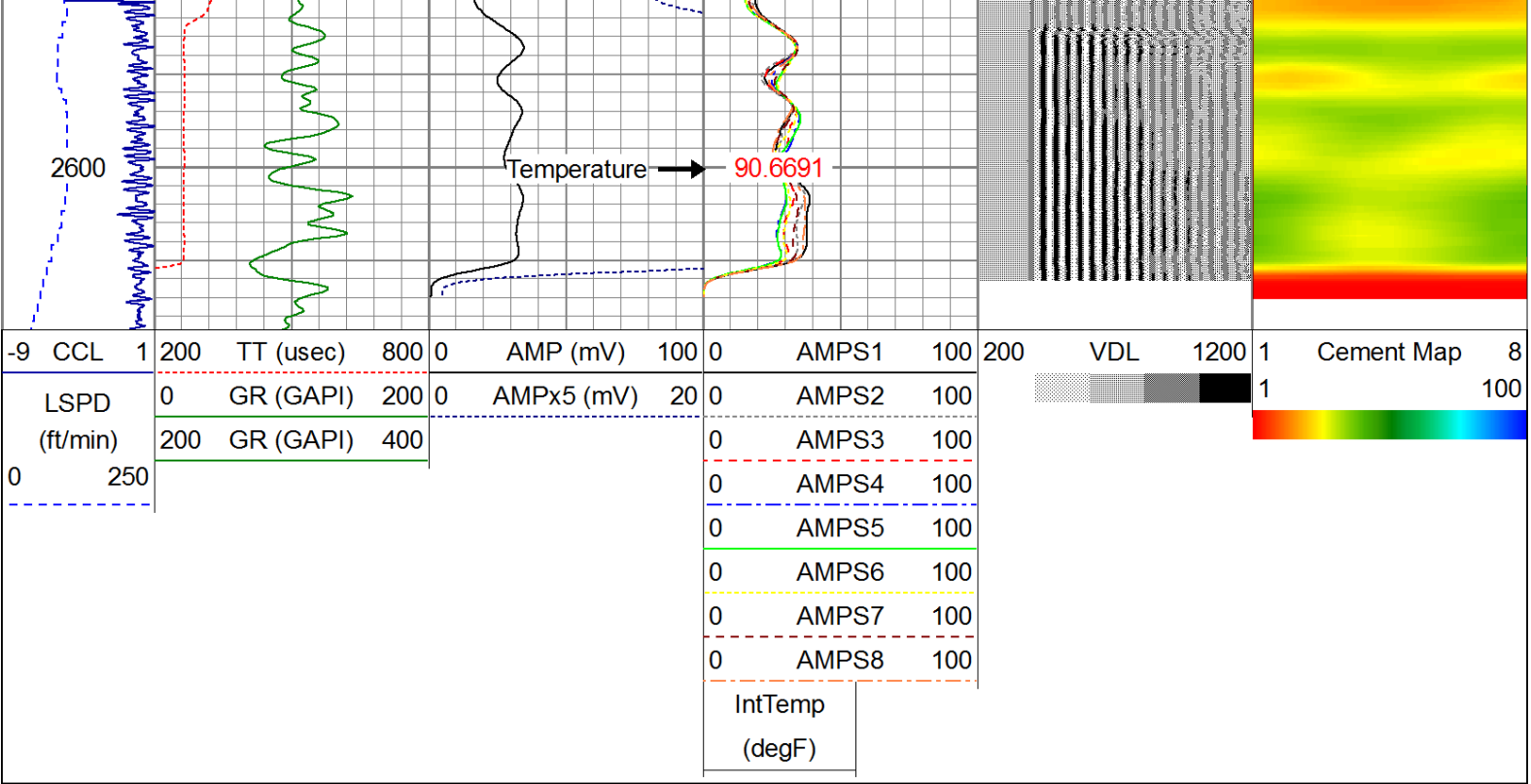












SPN Well Services E - L I N E			CompanyNOBLE ENERGY		
			Well	BOIKO PC #G15-29D	
			Field	WATTENBERG	
			County	WELD	
			State	COLORADO	