



**RADIAL CEMENT BOND  
GAMMA RAY  
VDL, CCL**

Company ANTERO RESOURCES CORPORATION  
 Well WALDO UNIT 1H  
 Field MARCELLUS  
 County RITCHIE  
 State WV

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Location: API #: 47085103540000 Other Services

Permanent Datum	SEC	TWP	RGE	Elevation
Log Measured From				K.B.
Drilling Measured From				D.F.
				G.L.

Date	1-12-19
Run Number	1
Depth Driller	17891'
Depth Logger	7334'
Bottom Logged Interval	7334'
Top Log Interval	SURFACE
Open Hole Size	5.5" CASING
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	138 DEG
Estimated Cement Top	930'
Time Well Ready	N/A
Time Logger on Bottom	7:55
Equipment Number	640
Location	BRIDGEPORT WW
Recorded By	PAT DAVIDSON
Witnessed By	JOHN MAXWELL

Borehole Record		Casing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
		13.375	554'
		9.625	2682'
		5.5	23#
			17891'

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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**

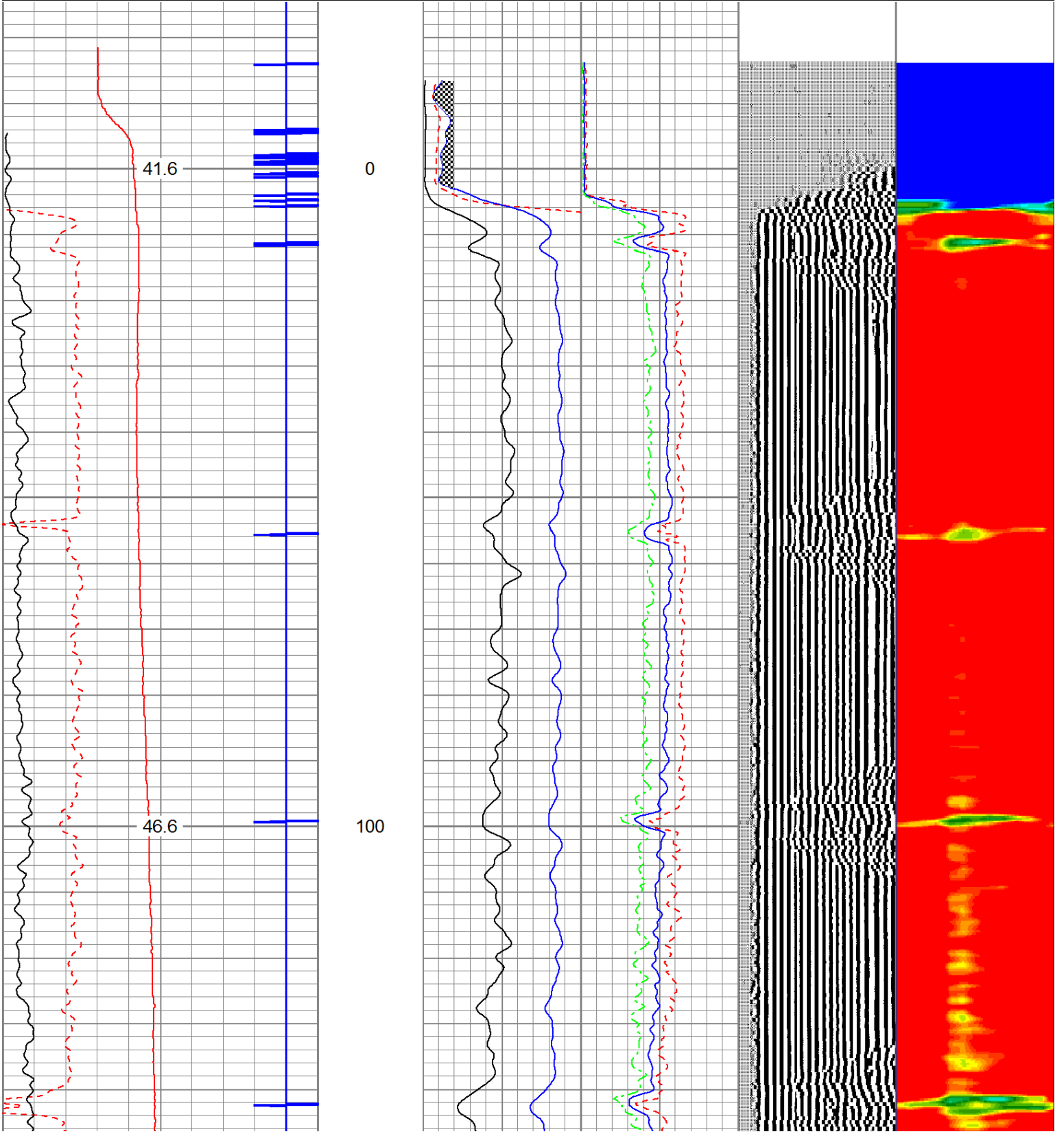
CBL IS CORRELATED TO PRODUCTION CASING TALLEY MARKER JOINT  
 DEPTH SHIFTED +3 ' TO KB AFTER CORRELATION  
 MARKER JOINT RECORDED AT 6145' TO 6155'  
 BOTTOM HOLE TEMP 138 DEG  
 LOG RAN UNDER PRESSURE @1500PSI

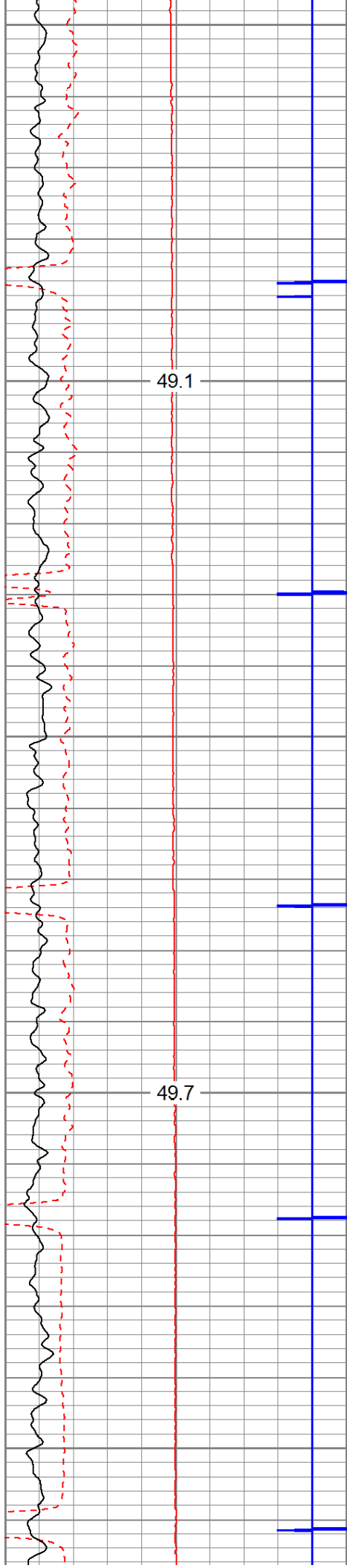


**MAIN PASS 1500 PSI**

Database File: antero\_waldo1h.db  
 Dataset Pathname: merge1  
 Presentation Format: antero  
 Dataset Creation: Tue Jan 15 19:53:50 2019  
 Charted by: Depth in Feet scaled 1:240

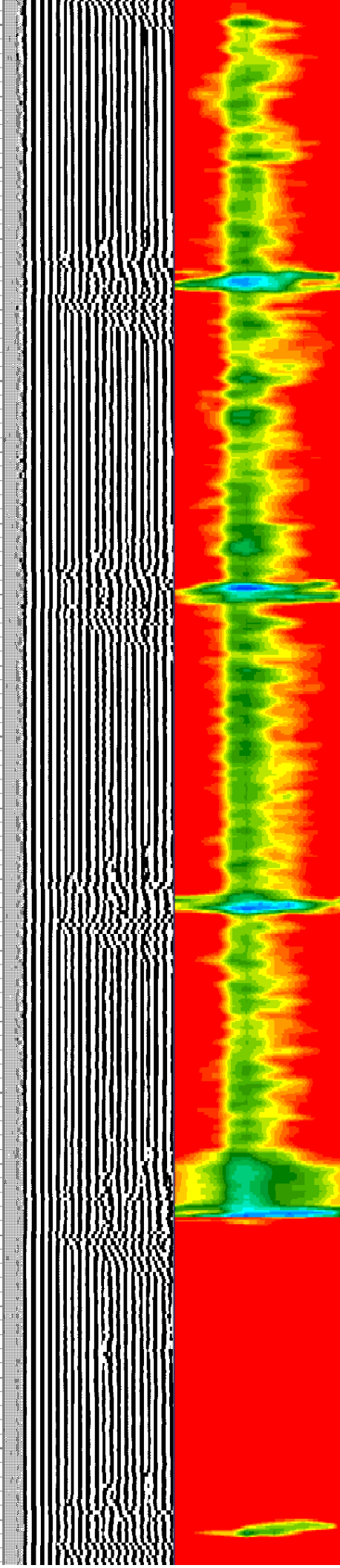
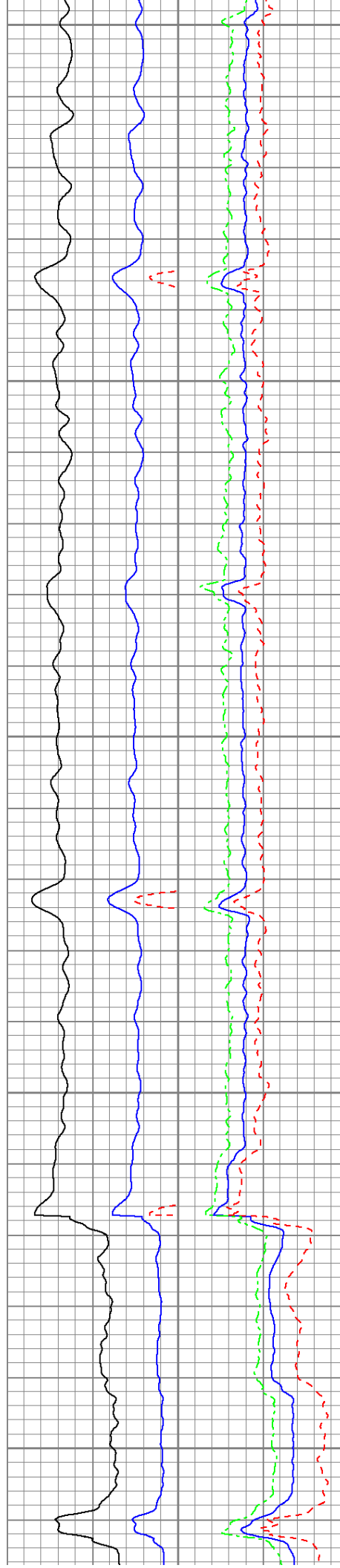
225	Travel Time (usec)	125	Amplitude	0	Amp Avg	150	200	VDL	1200	1	Sector Map	12
9	Casing Collars	-1	(mV)	100	Amp Max	150				20		60
0	Gamma Ray	180	AmpX5 (mV)	20	Amp Min	150						
0	TEMP (degF)	100	BONDIX	0								
	TEMP (degF)											

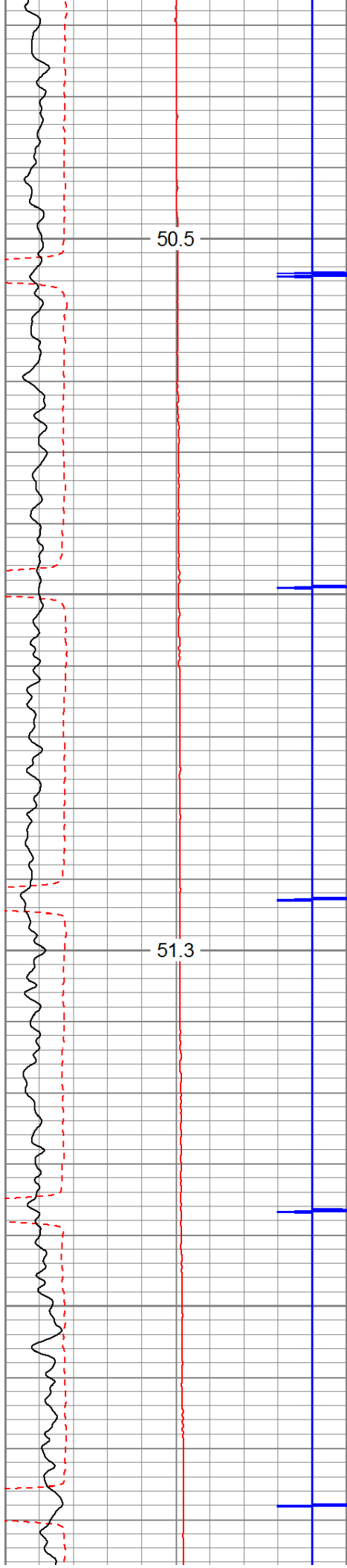




200

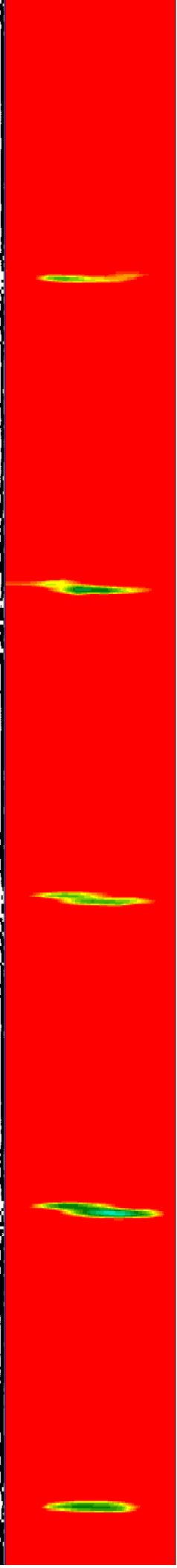
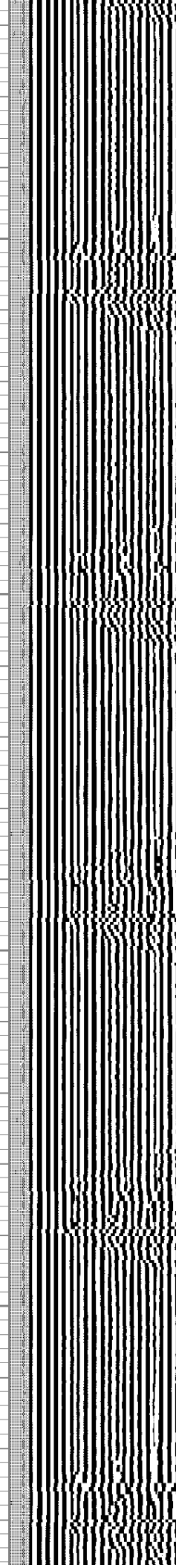
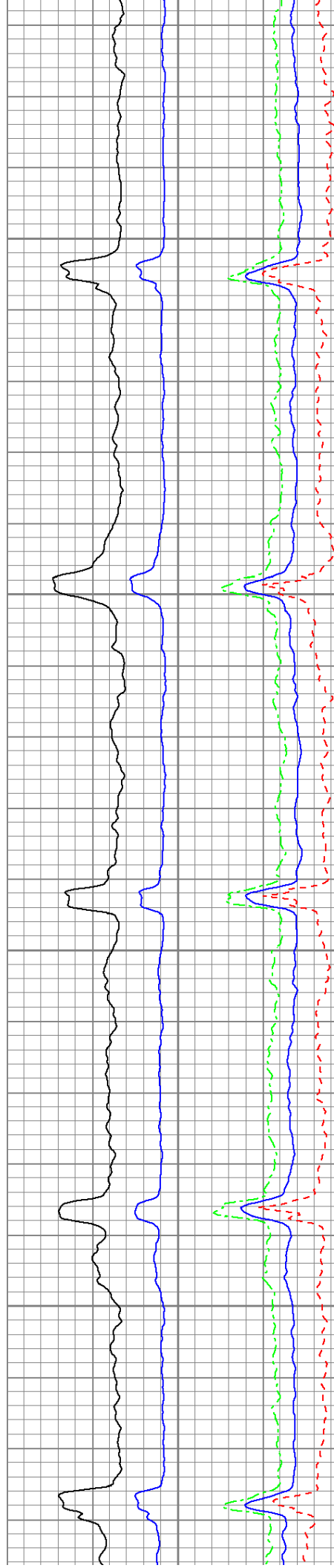
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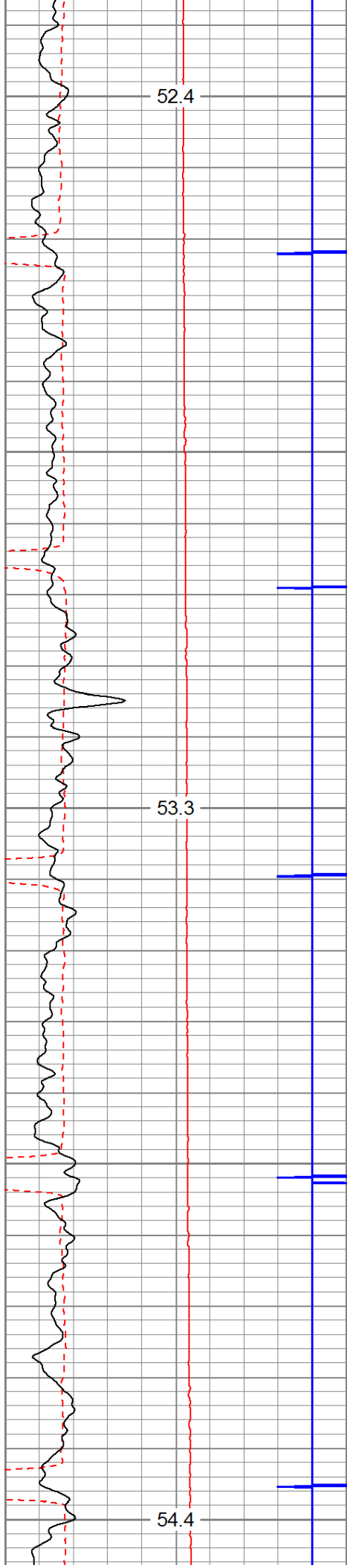




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