



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

Company ANTERO RESOURCES CORPORATION
 Well RODZINA 3H
 Field MARCELLUS
 County TYLER
 State W.V.

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 Field MARCELLUS
 County TYLER State W.V.

Location: API #: 4709502587
 SEC TWP RGE
 Permanent Datum G.L. Elevation 1009'
 Log Measured From K.B. 1039'
 Drilling Measured From K.B. OF 30' G.L. 1009'

Date	10/9/19	
Run Number	ONE	
Depth Driller	20681'	
Depth Logger	6847'	
Bottom Logged Interval	6847'	
Top Log Interval	SURFACE	
Open Hole Size	N/A	
Type Fluid	H2O	
Density / Viscosity	N/A	
Max. Recorded Temp.	142 DEG	
Estimated Cement Top	2750'	
Time Well Ready	N/A	
Time Logger on Bottom	N/A	
Equipment Number	340	
Location	BRIDGEPORT, WV	
Recorded By	JBOGGS	
Witnessed By	BRYAN HEMARD	

Borehole Record			Casing Record				
Run Number	Bit	From	To	Size	Weight	From	To
				13 3/8"	N/A	578'	SURFACE
				9 5/8"	N/A	2558'	SURFACE
				5 1/2"	N/A	20681'	SURFACE

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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

THANK YOU FOR USING KLX ENERGY SERVICES
 TOP OF CEMENT @ 2750'
 MARKER JOINT @ 5848'-5858'
 BOTTOM HOLE TEMP- 142 DEG



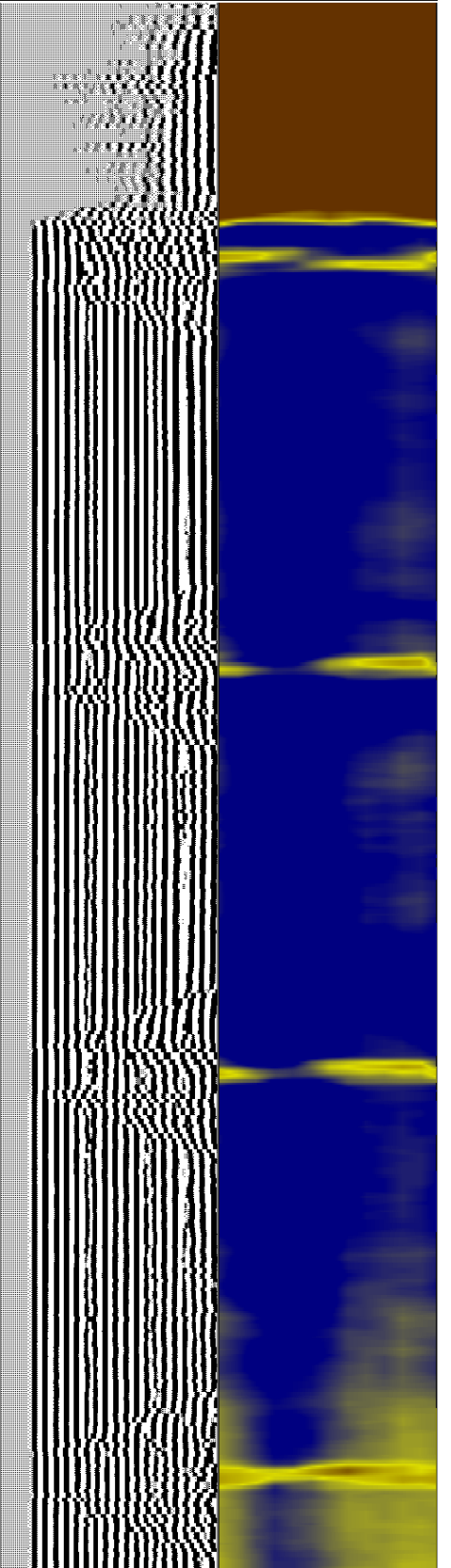
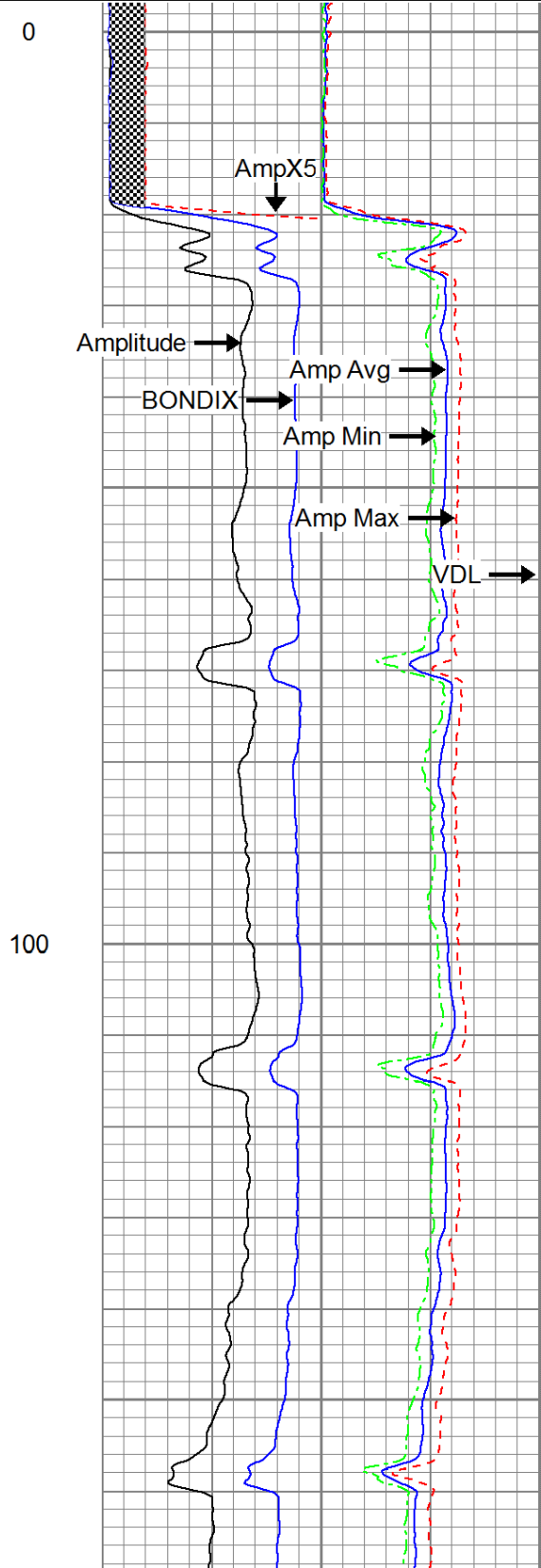
LOGGED UNDER 1500 PSI.

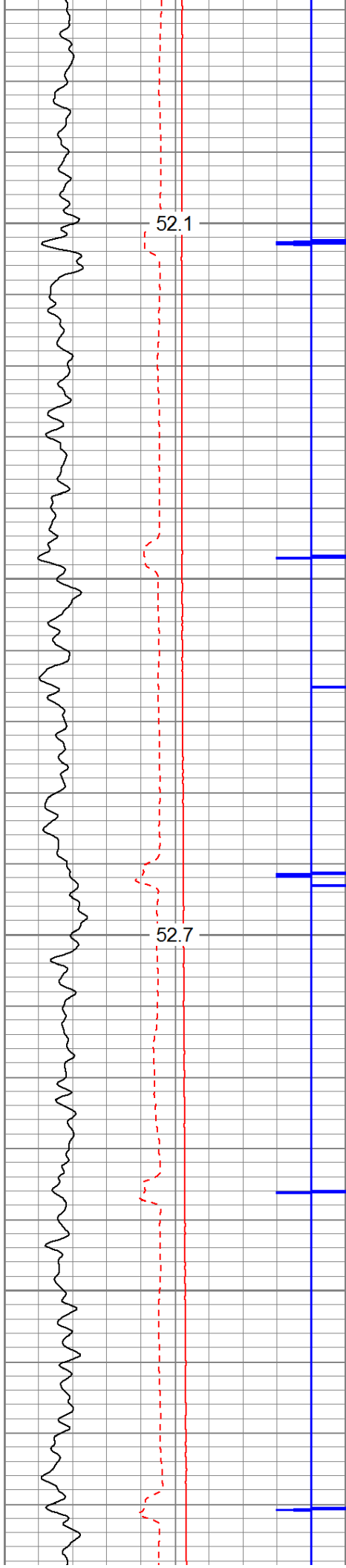
Database File: e:\rodzina 3h.db
 Dataset Pathname: pass3.1
 Presentation Format: antero
 Dataset Creation: Wed Oct 09 17:43:48 2019 by Calc 7.0 B1
 Charted by: Depth in Feet scaled 1:240

280	Travel Time (usec)	180
9	Casing Collars	-1
0	Gamma Ray	180
0	TEMP (degF)	100
TEMP (degF)		

Amplitude	0	Amp Avg	150
(mV)	100	Amp Max	150
AmpX5 (mV)	20	Amp Min	150
BONDIX	0		

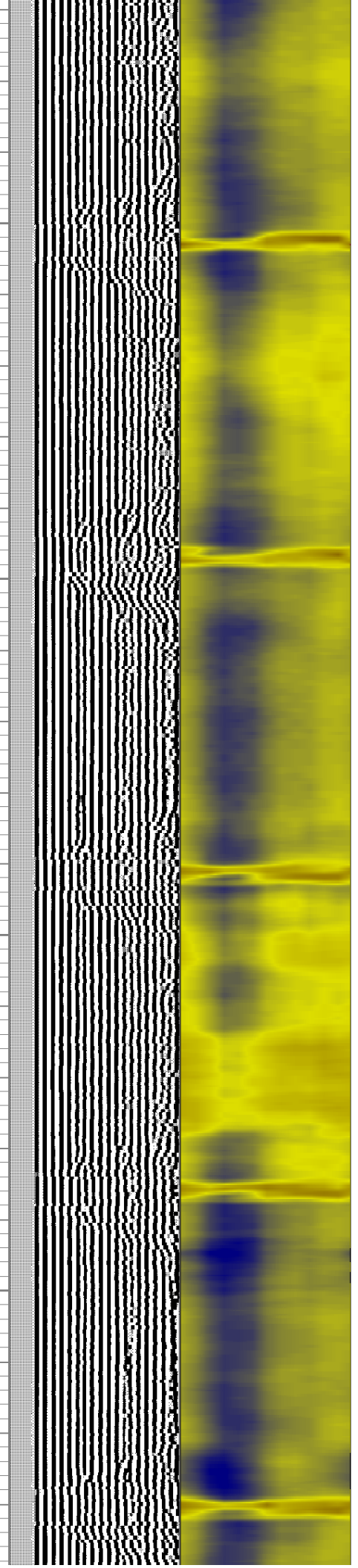
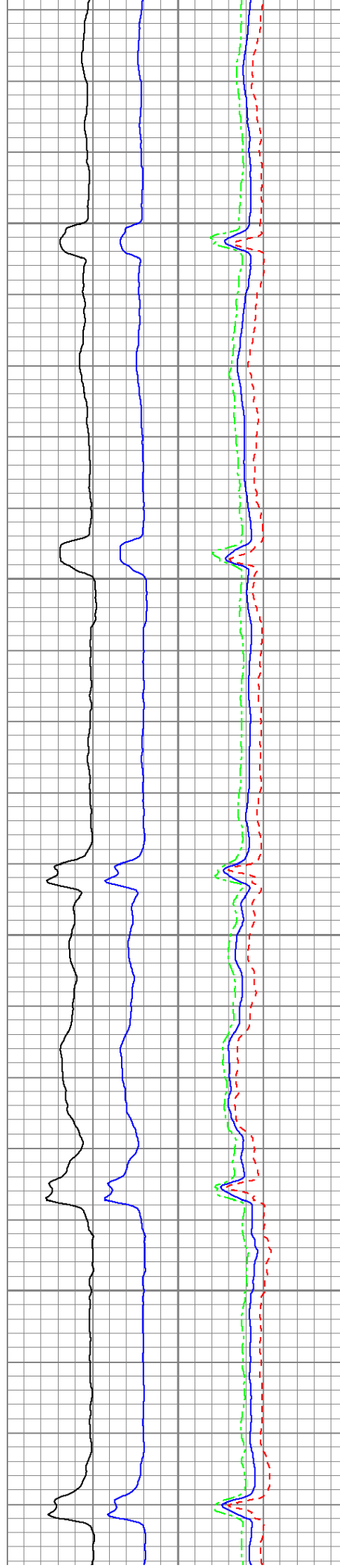
200	VDL	1200	1	Sector Map	12
			20		80

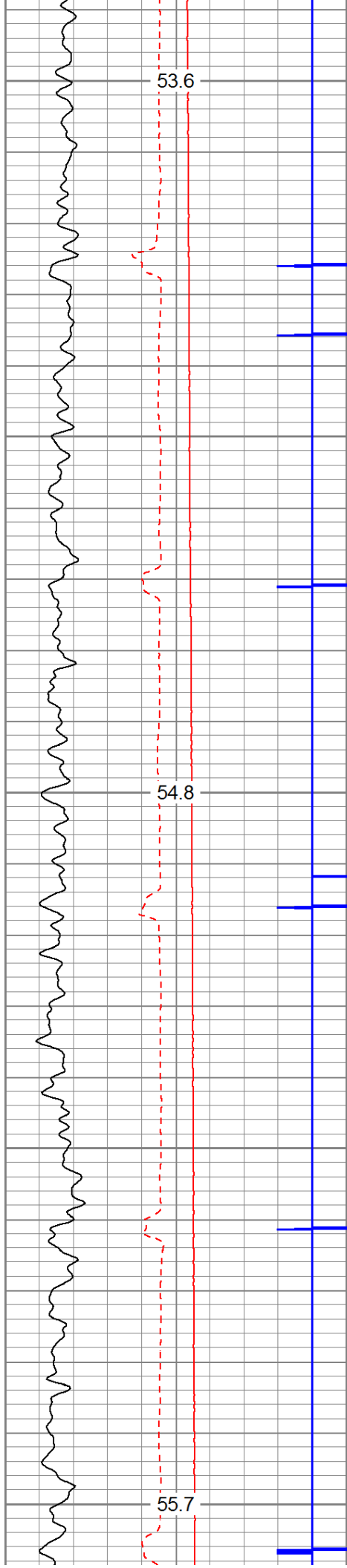




200

300

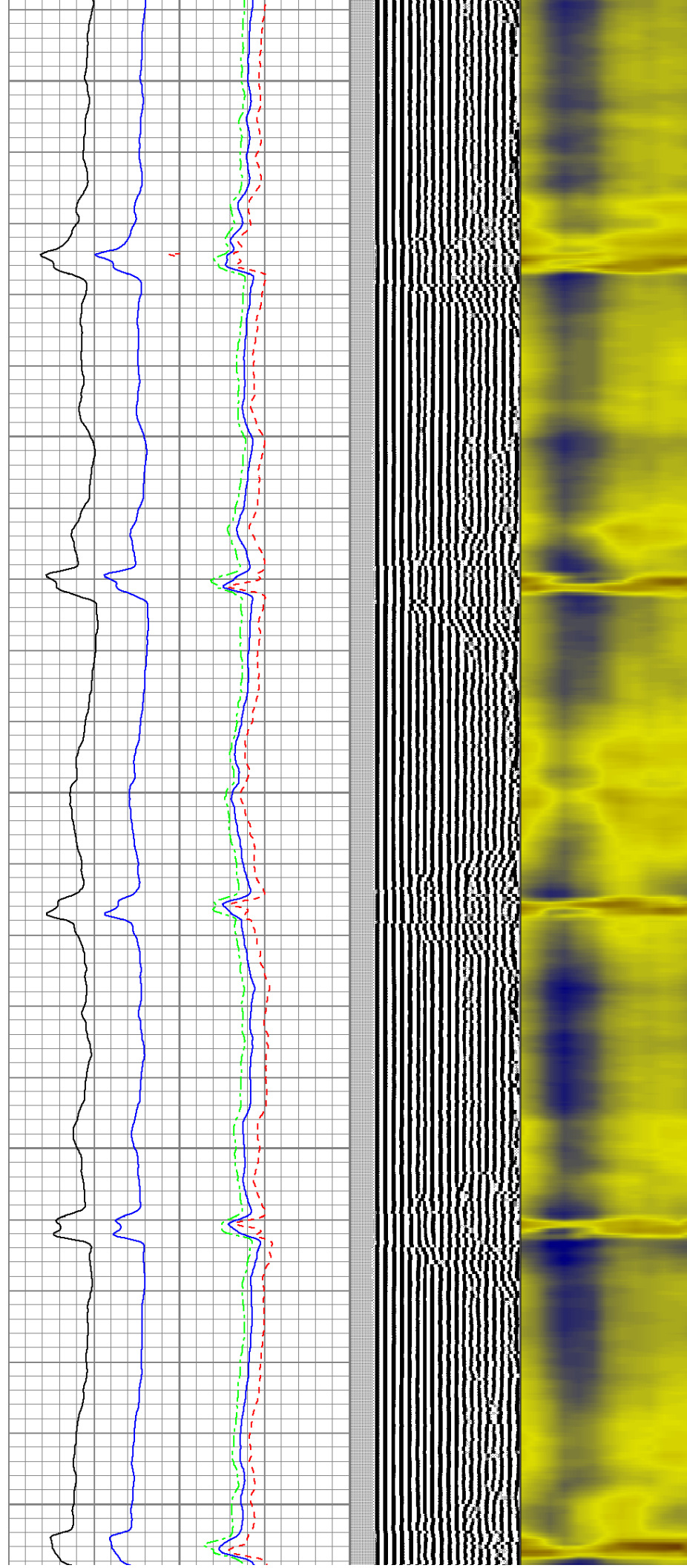


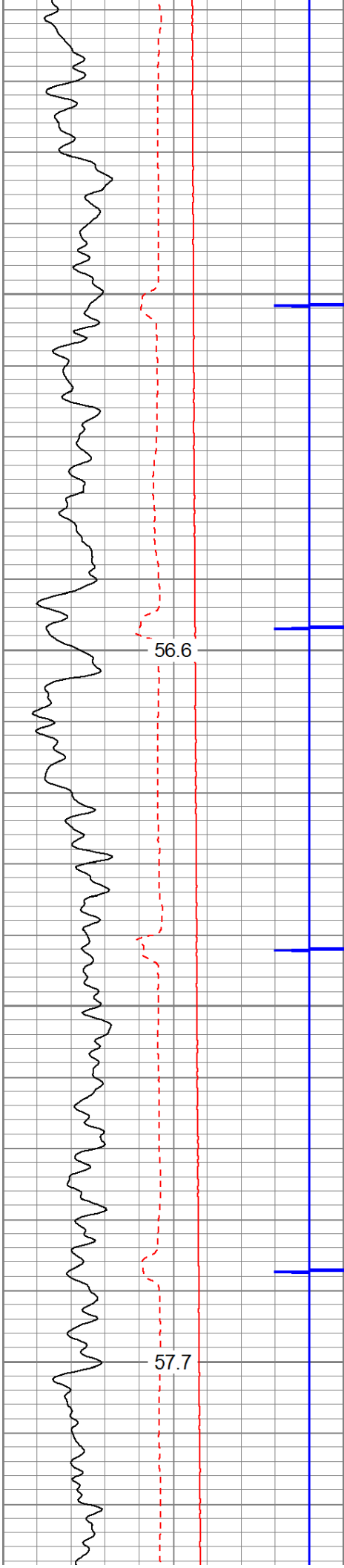


400

500

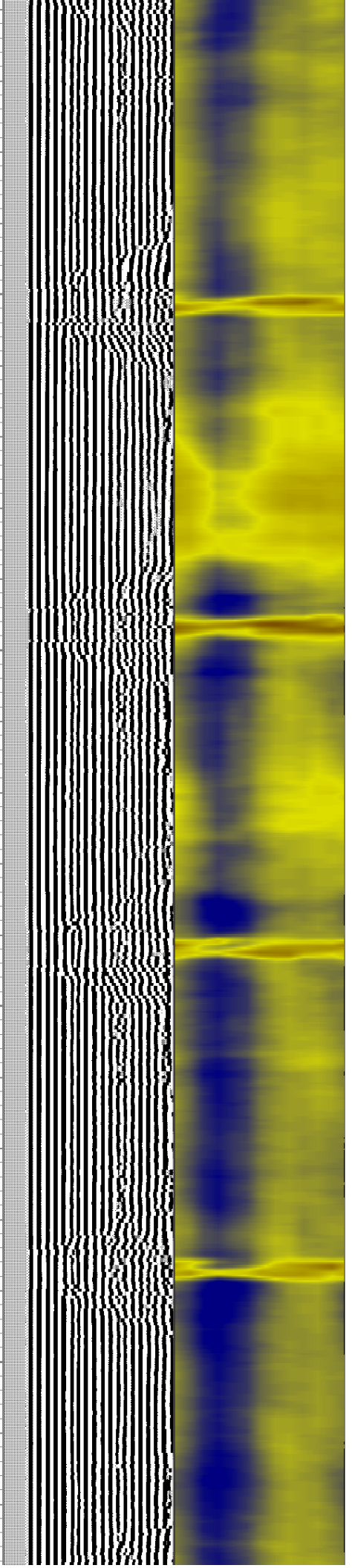
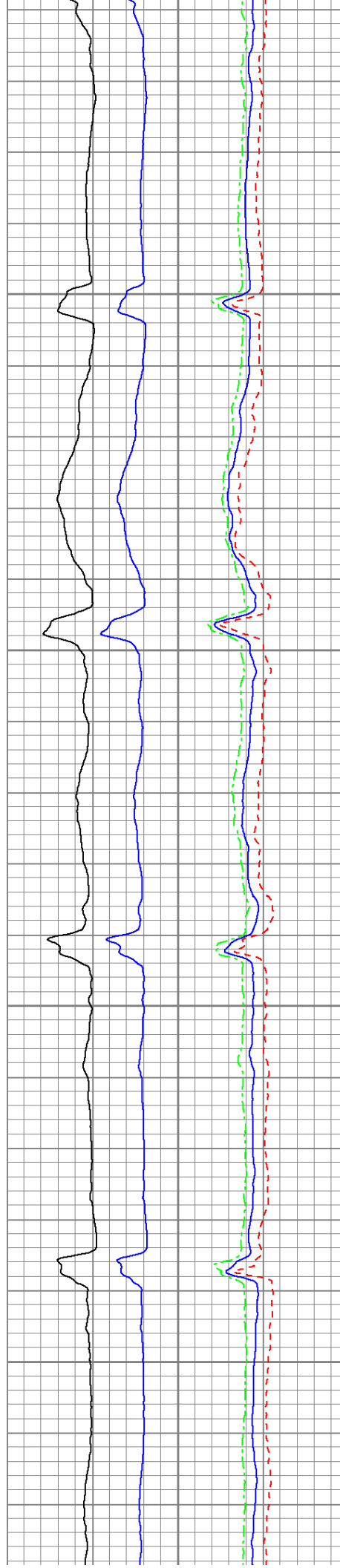
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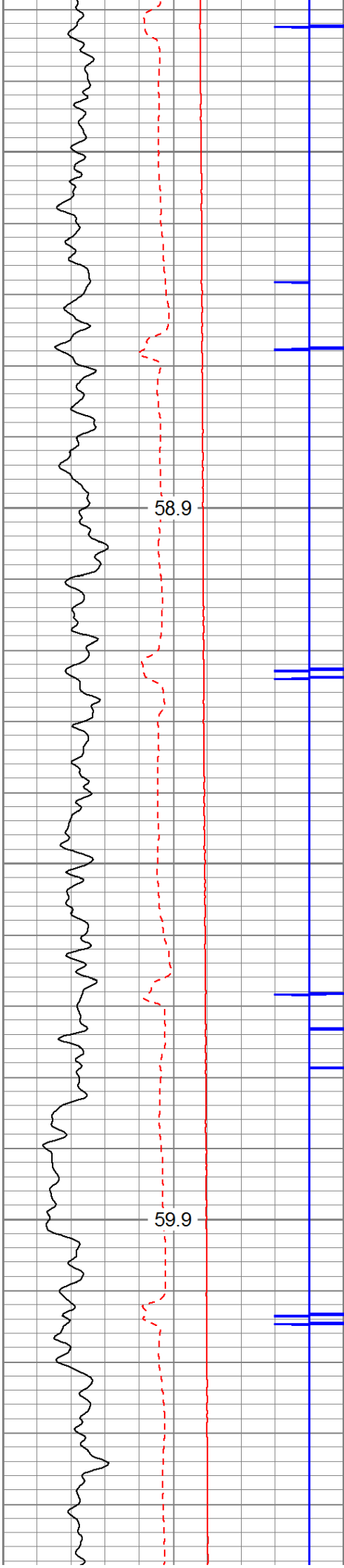




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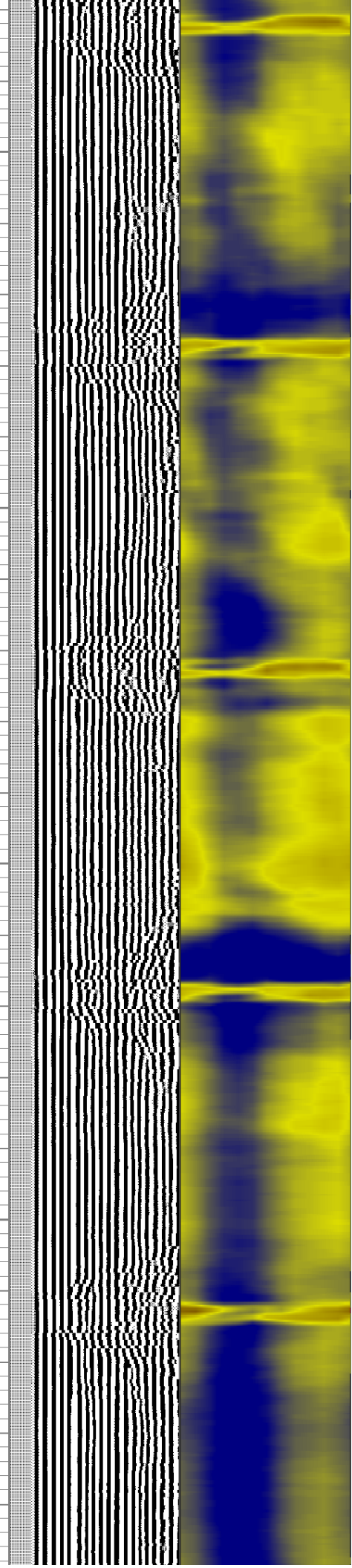
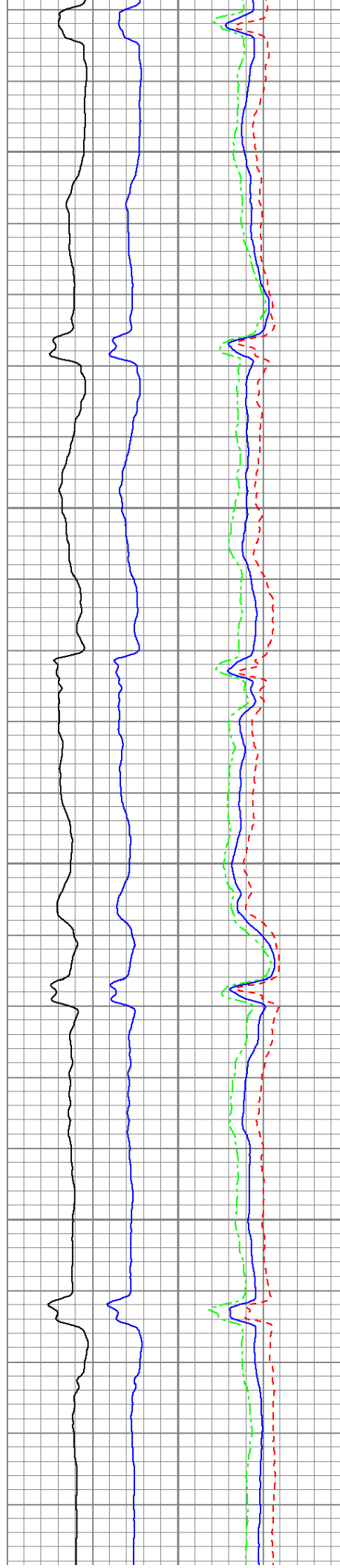
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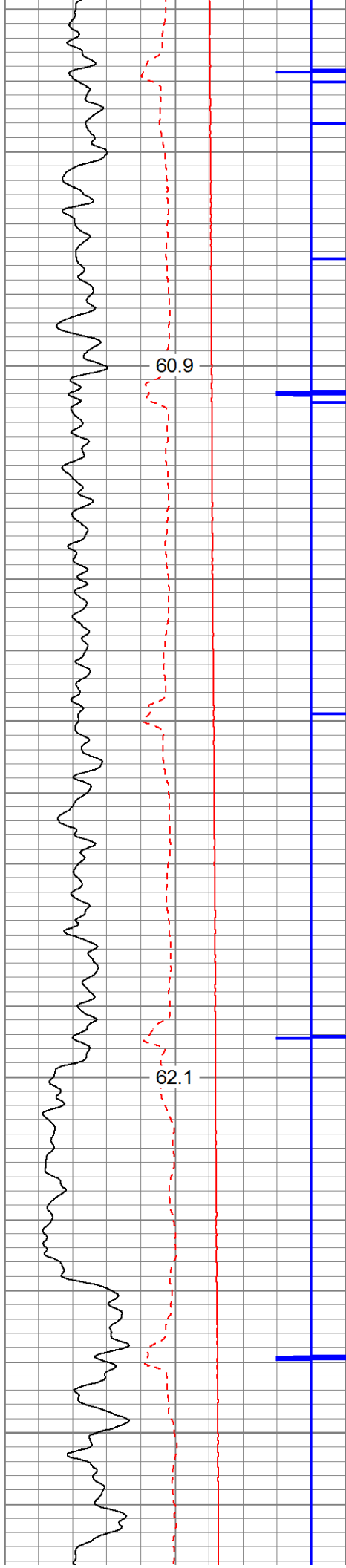




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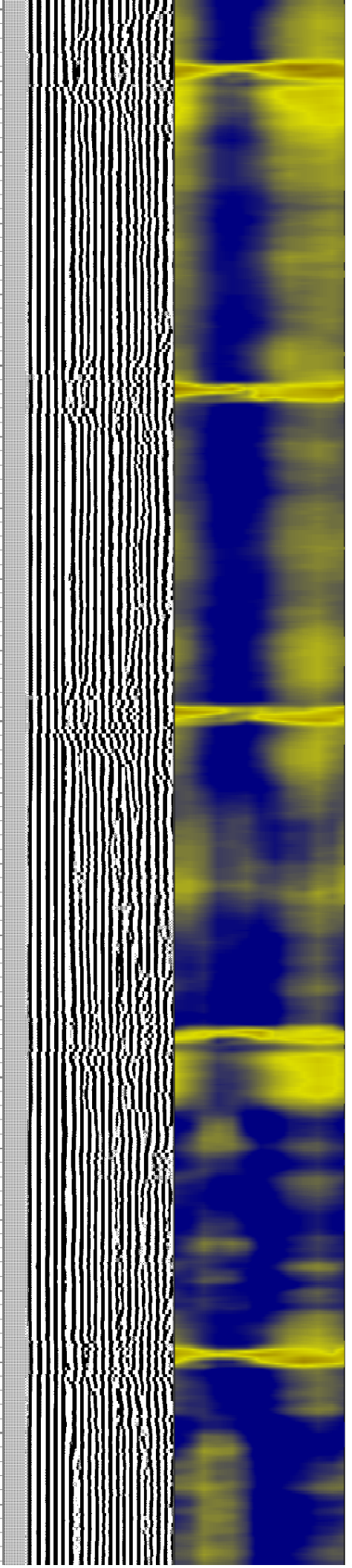
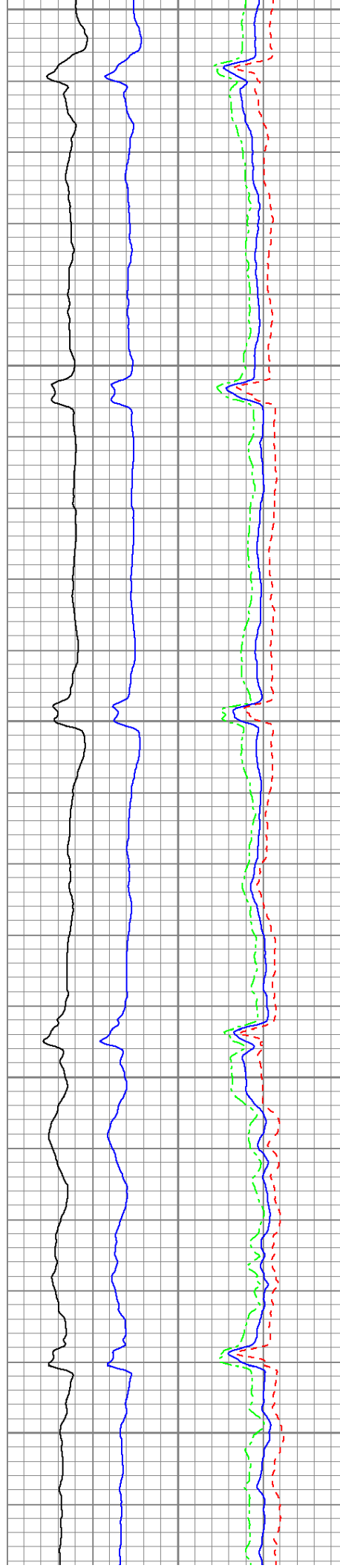
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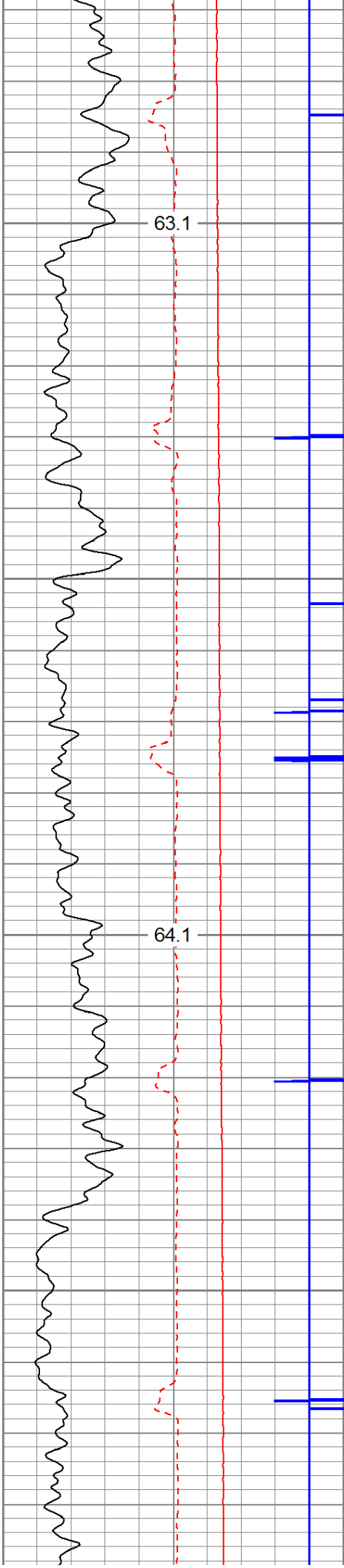




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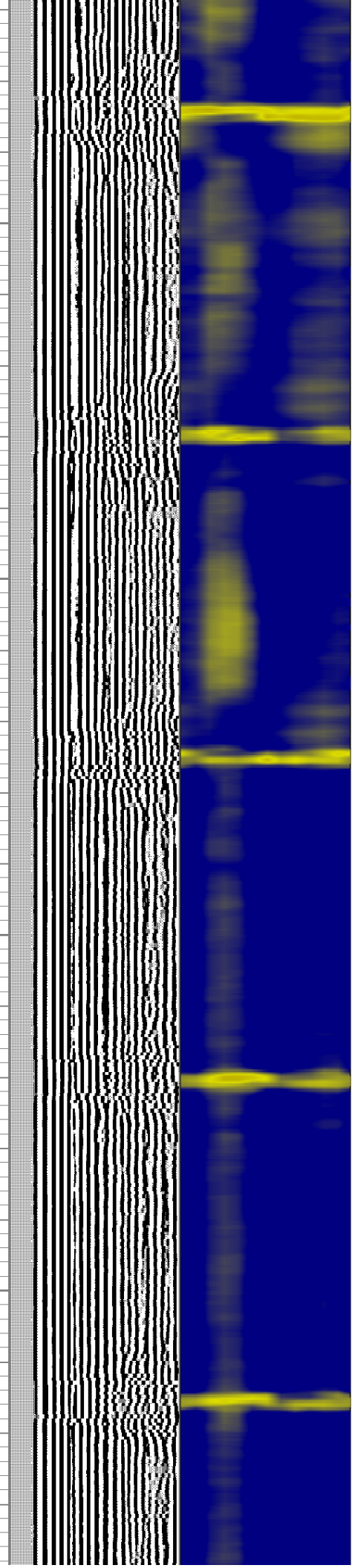
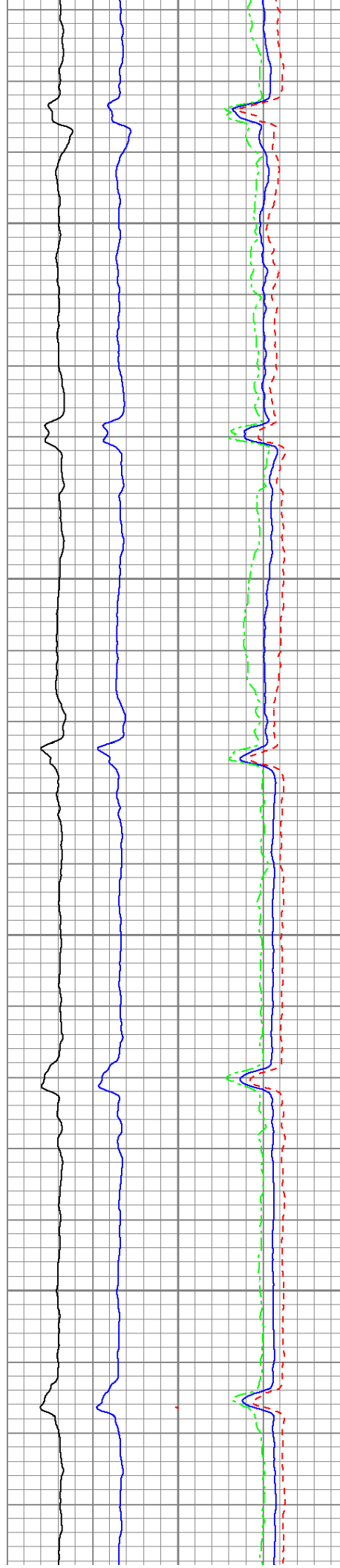
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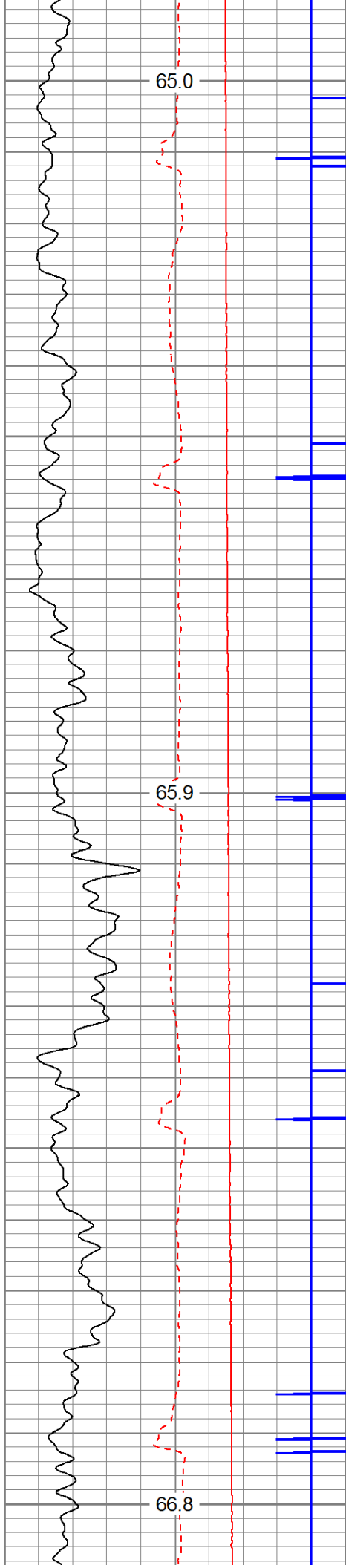




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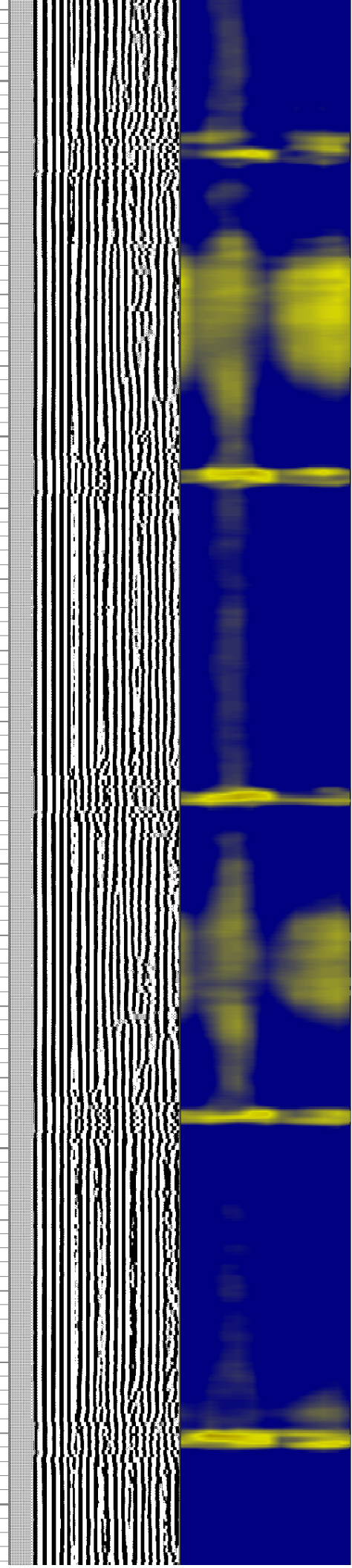
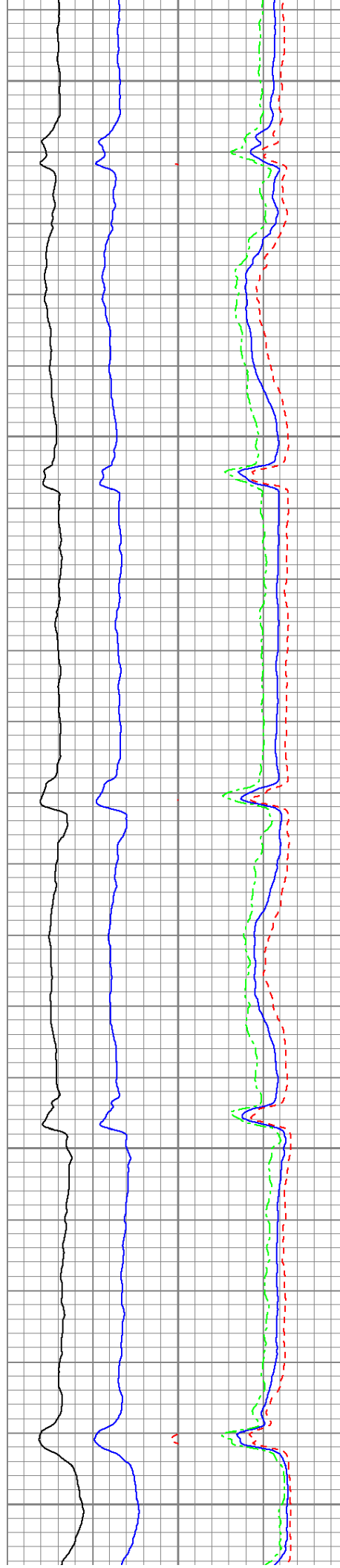


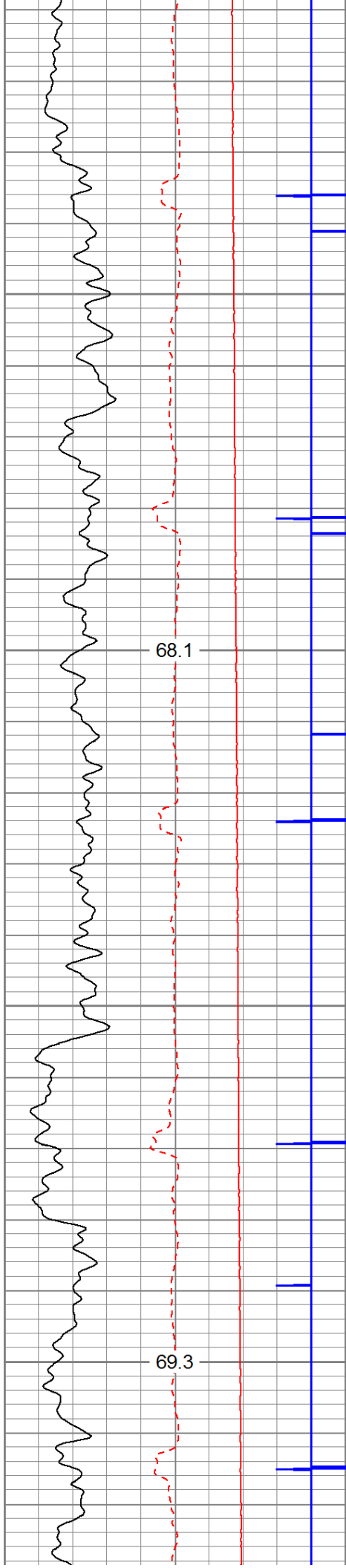


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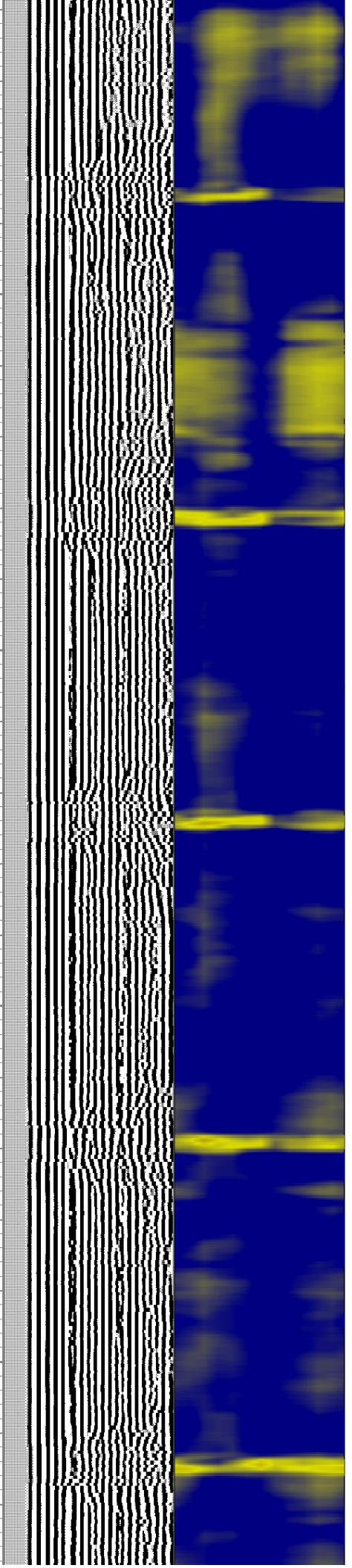
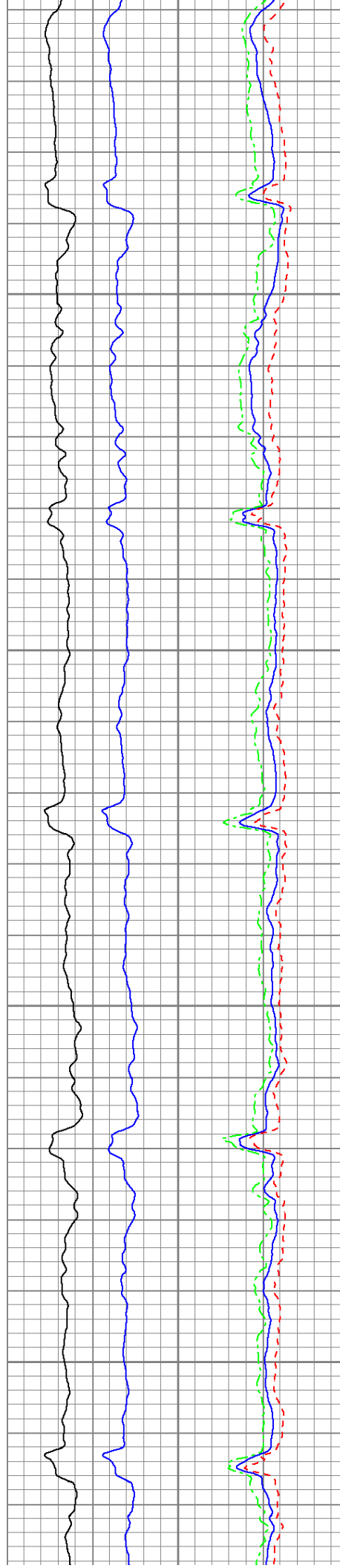
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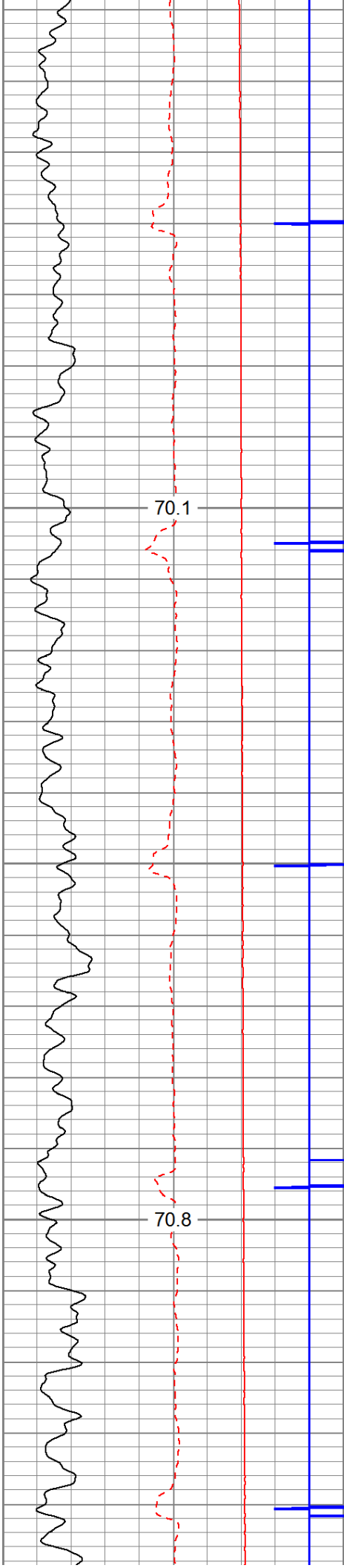




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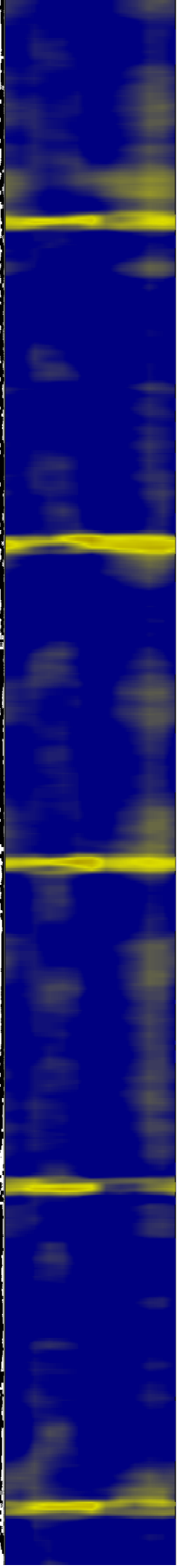
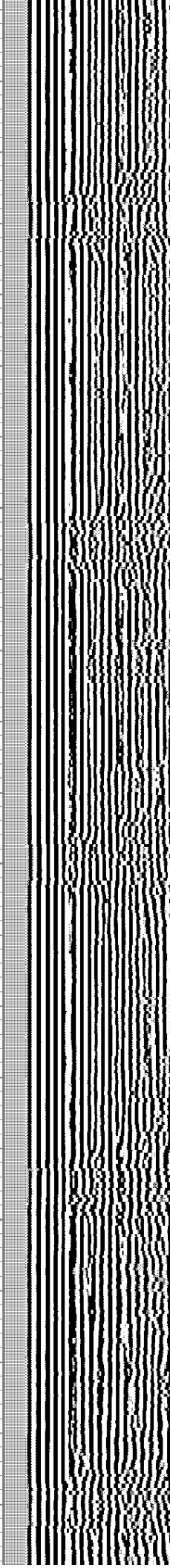
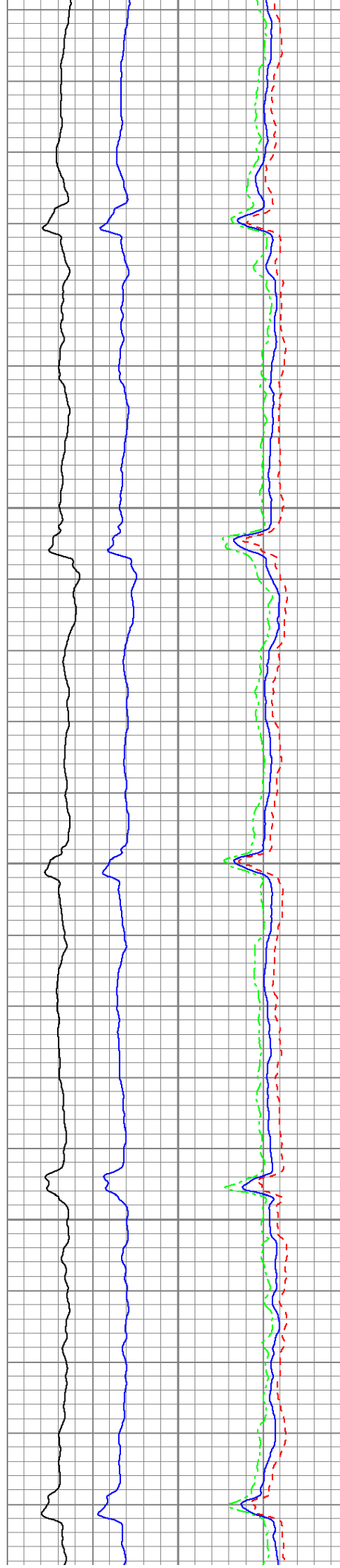
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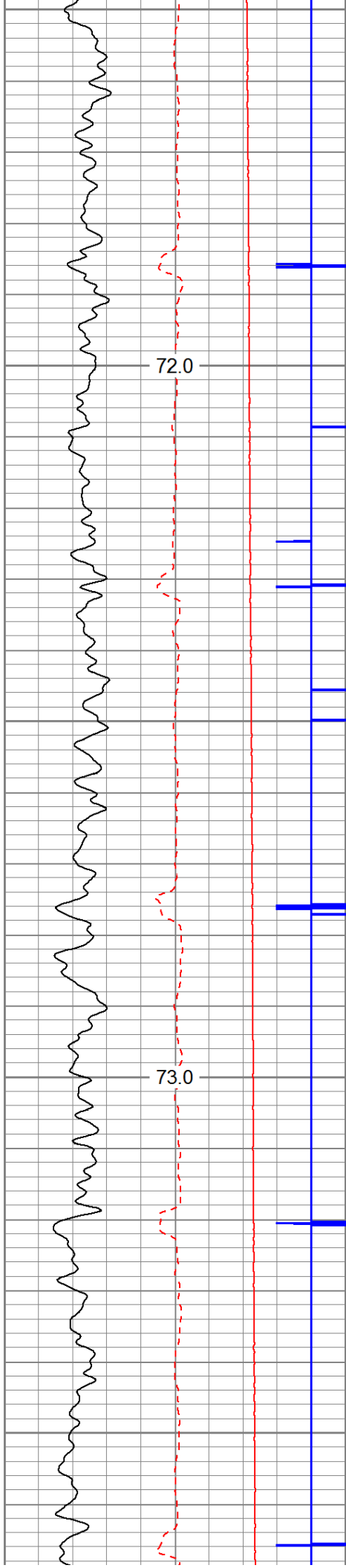




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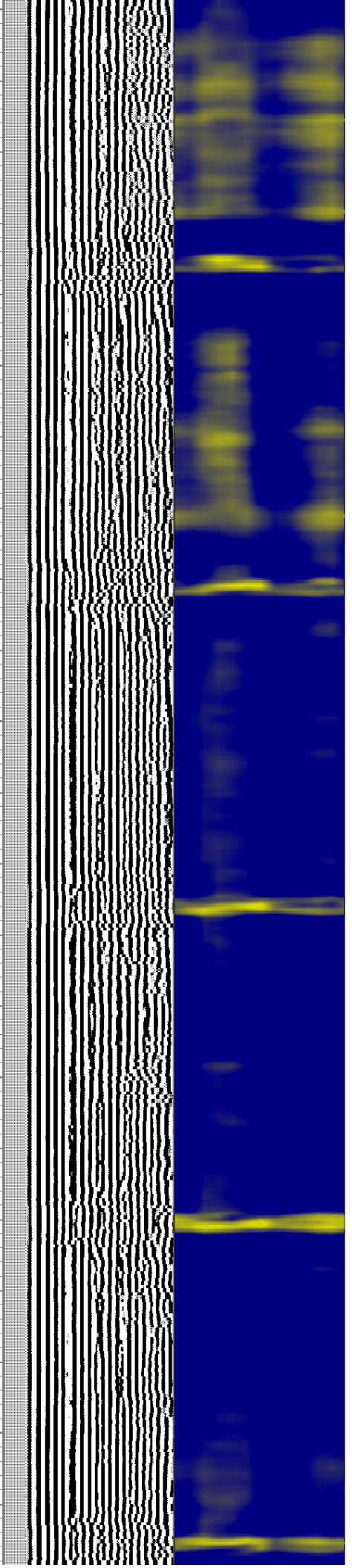
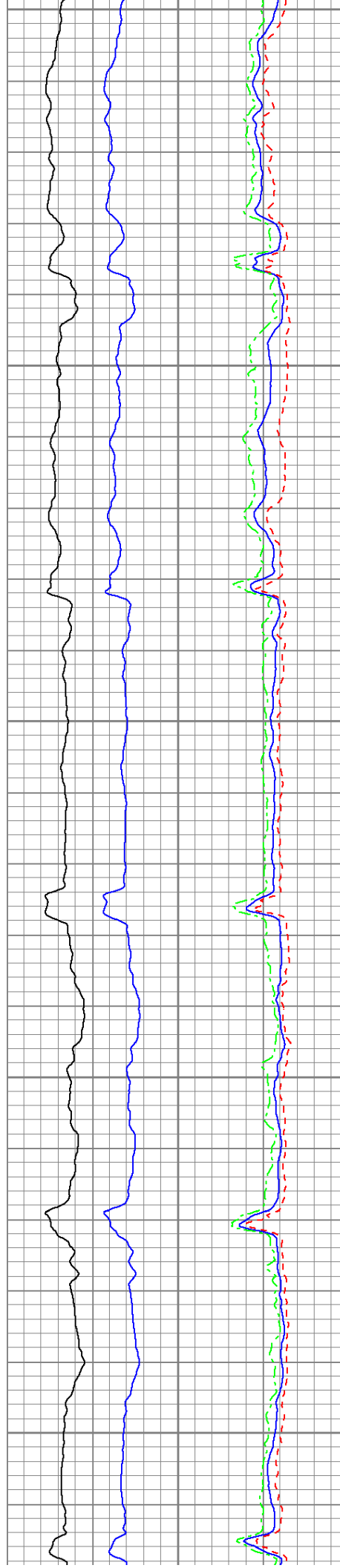
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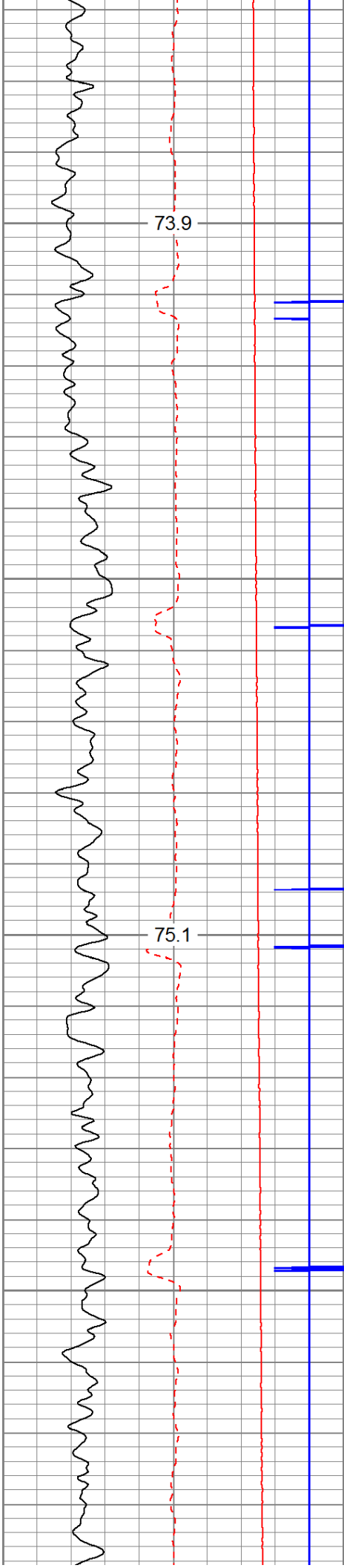




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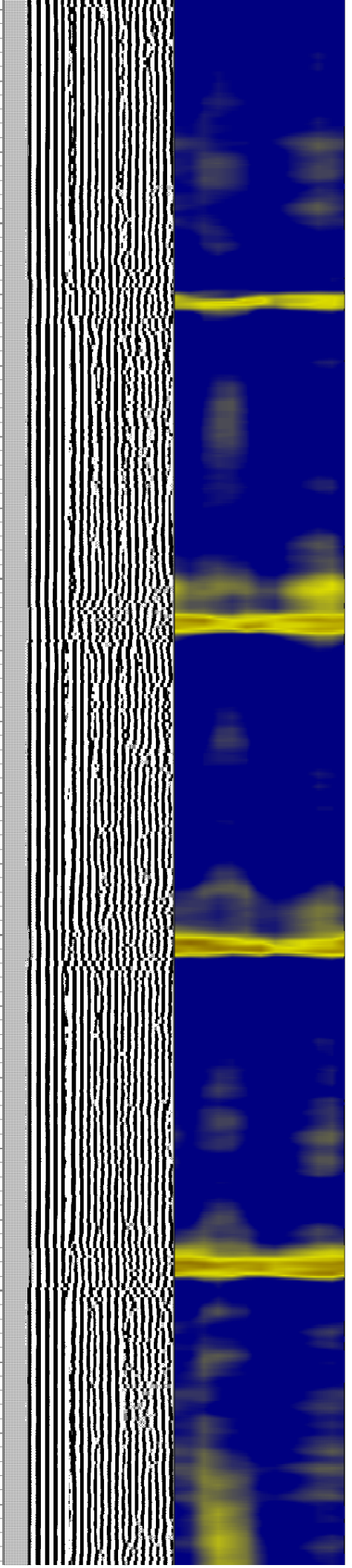
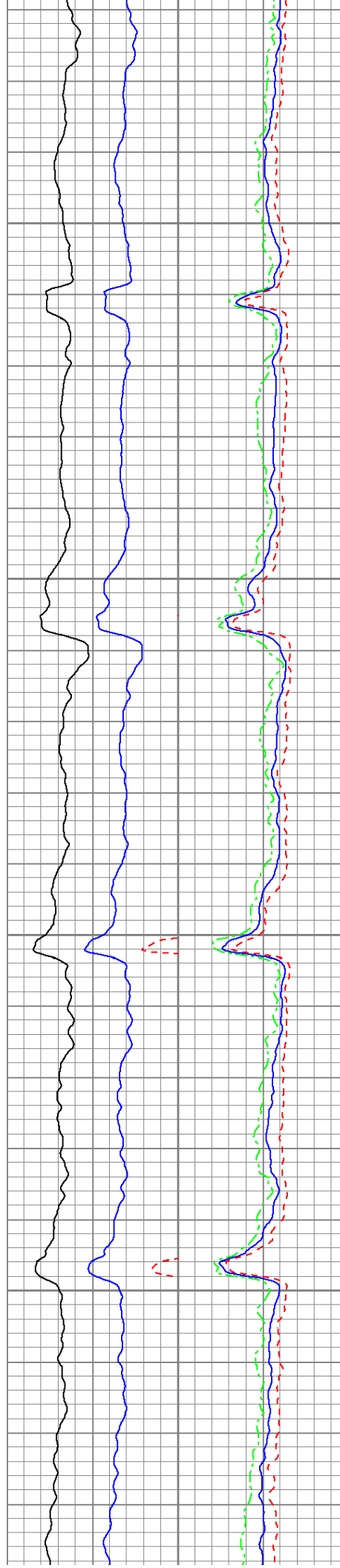
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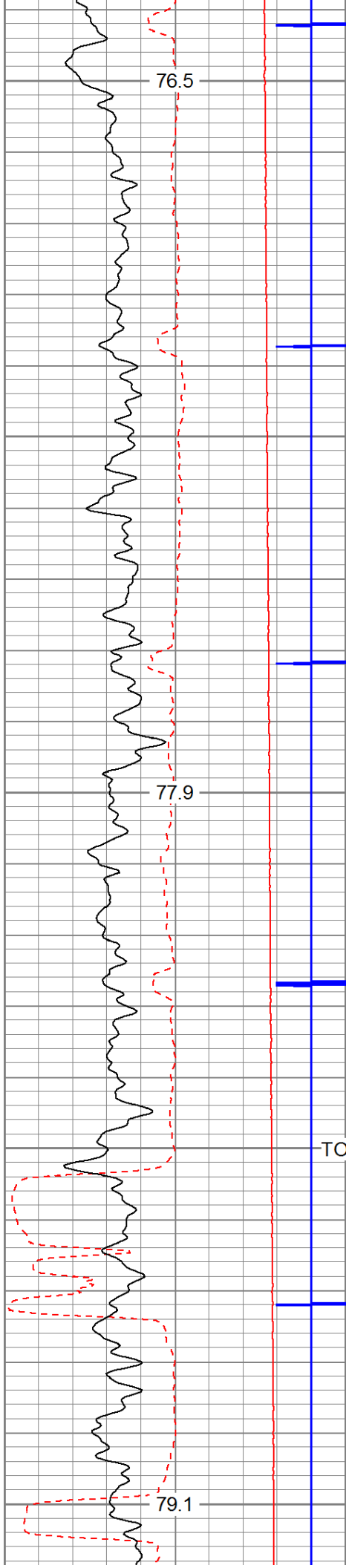




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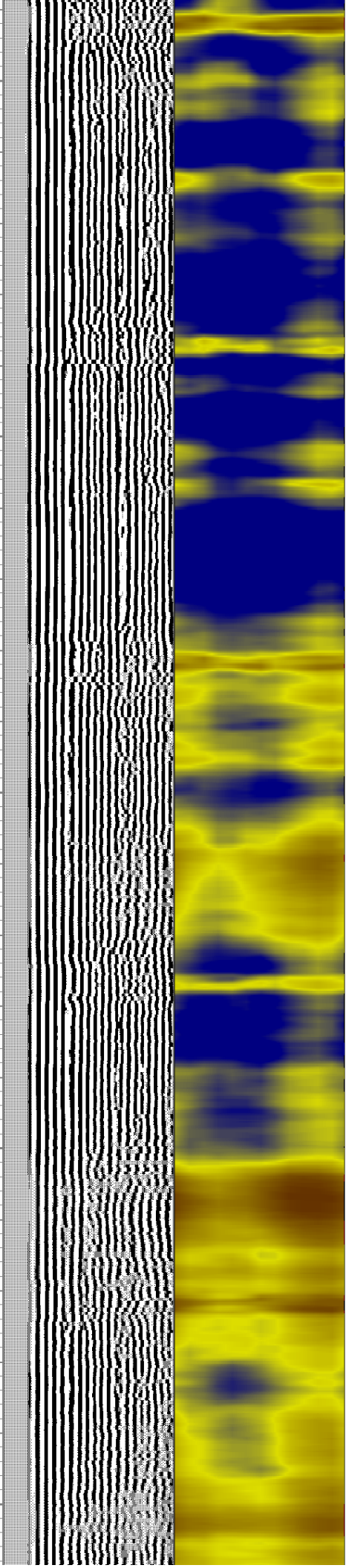
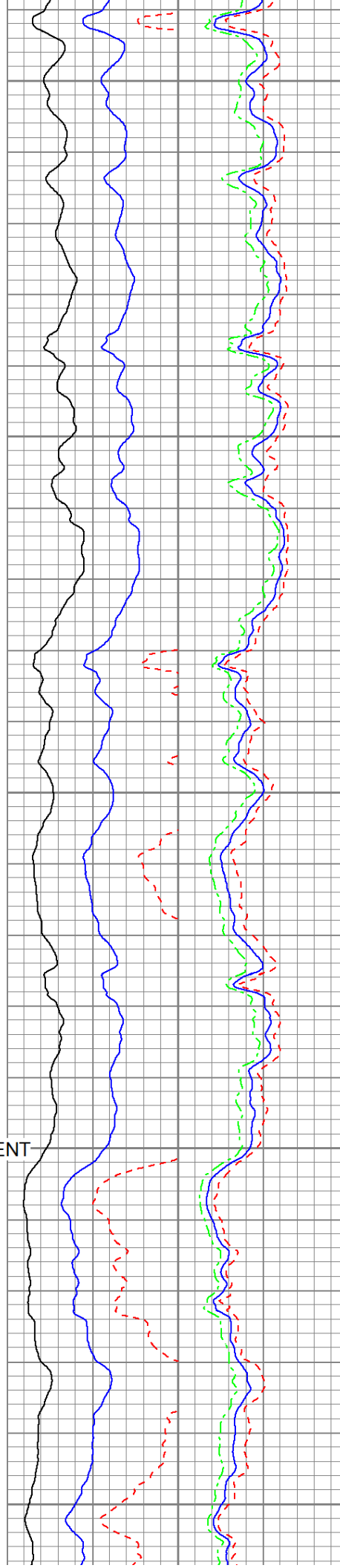


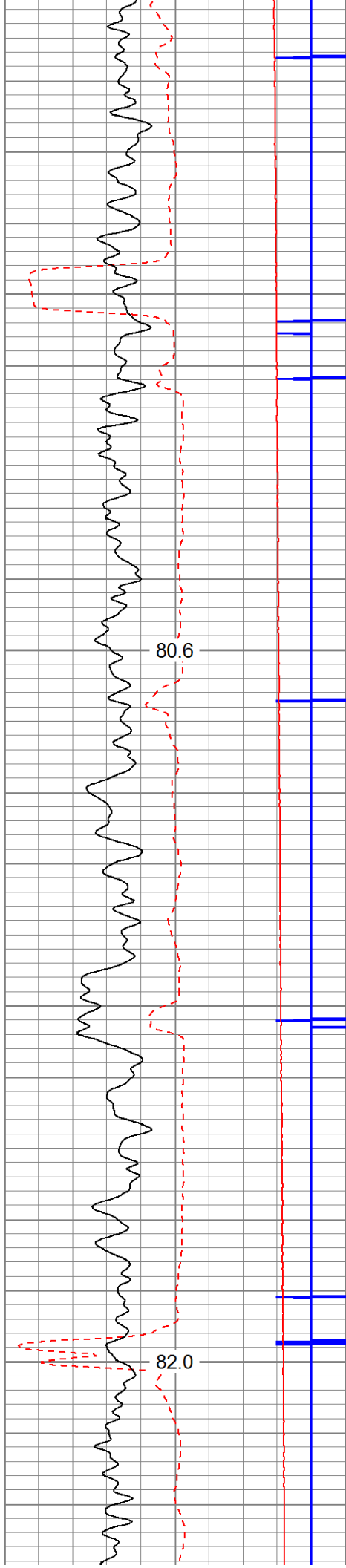
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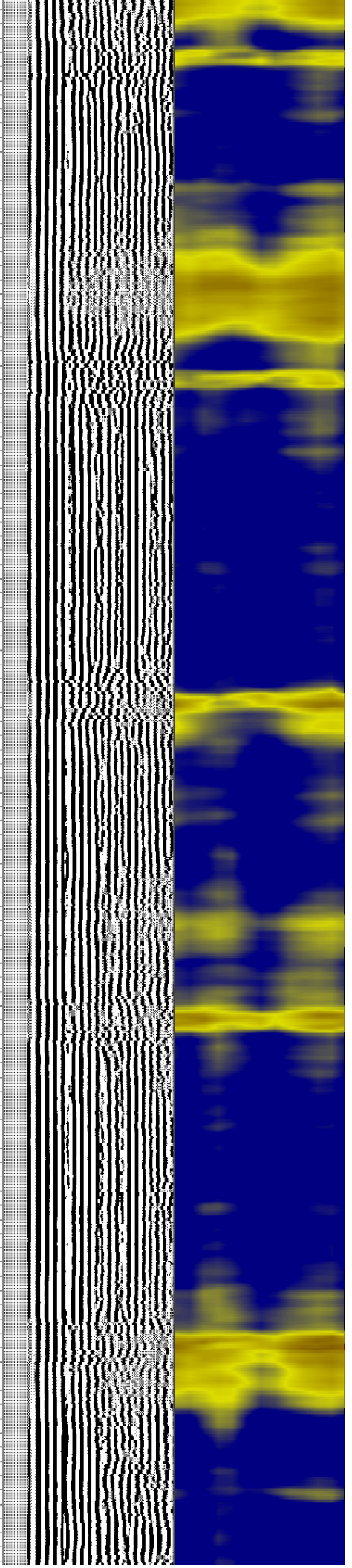
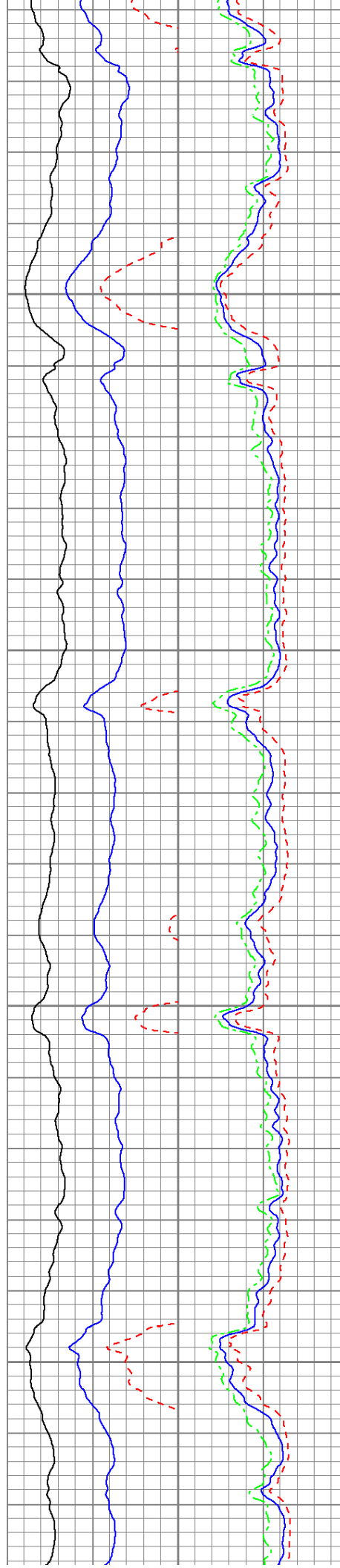
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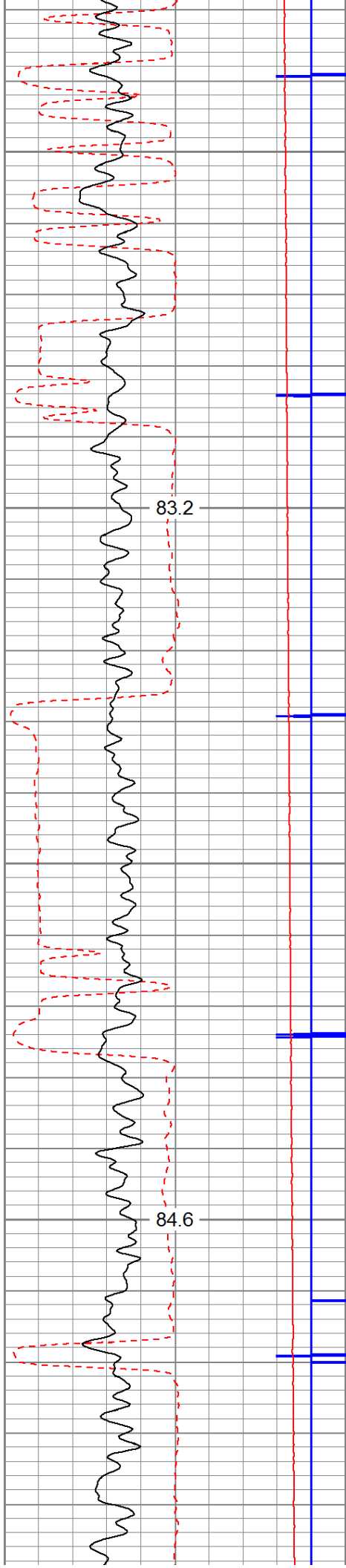




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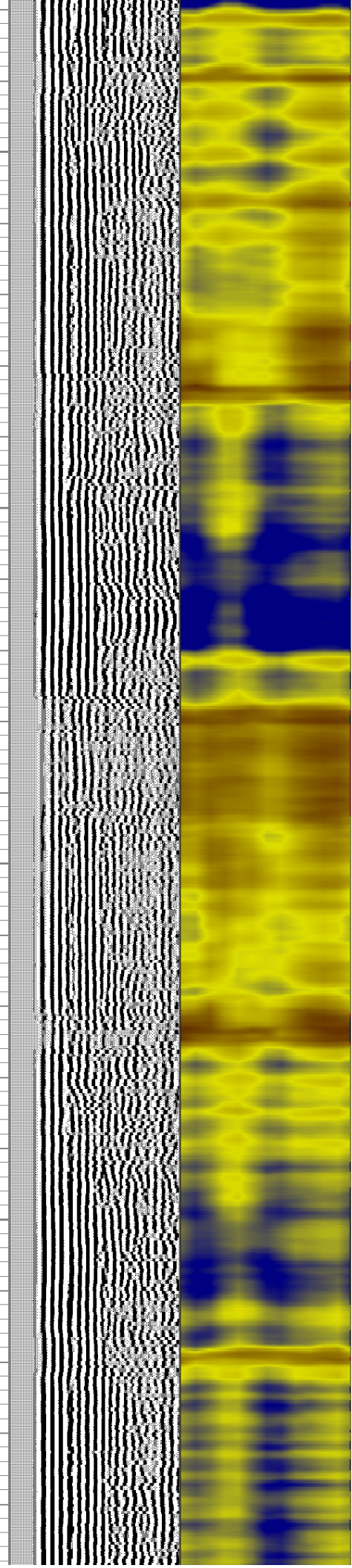
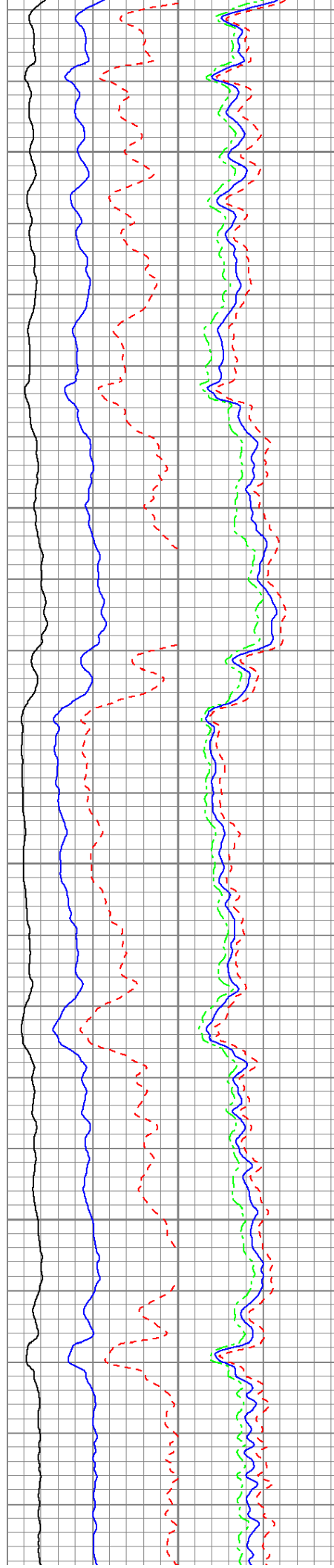
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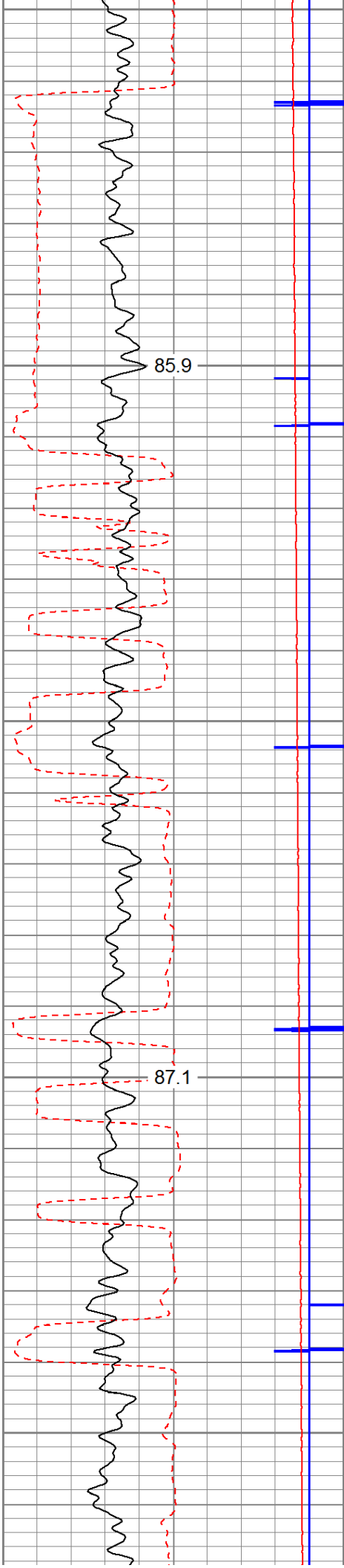




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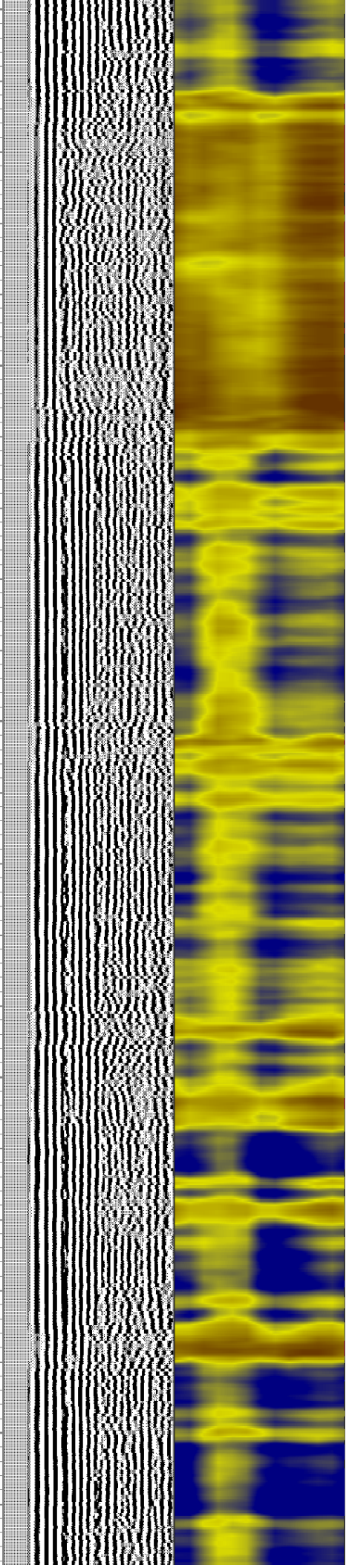
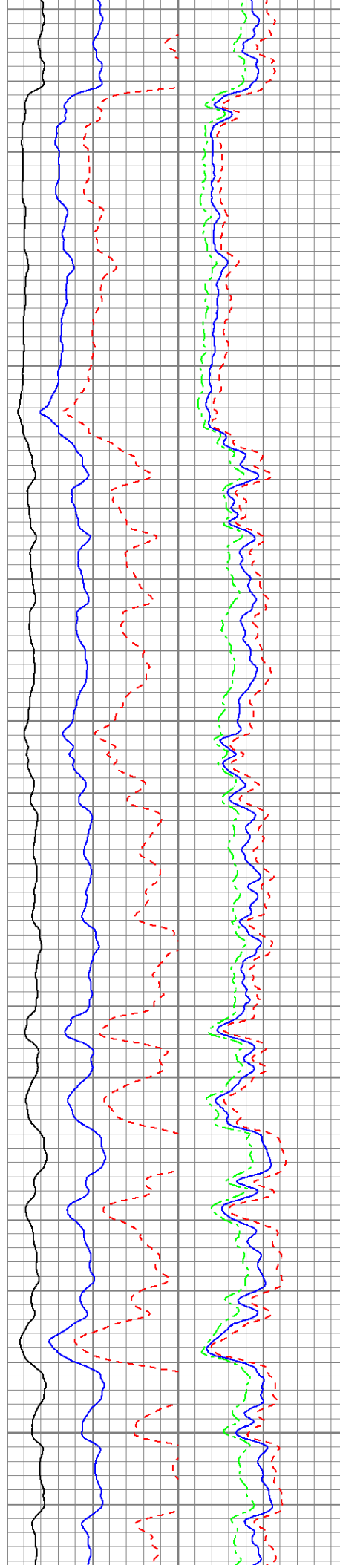
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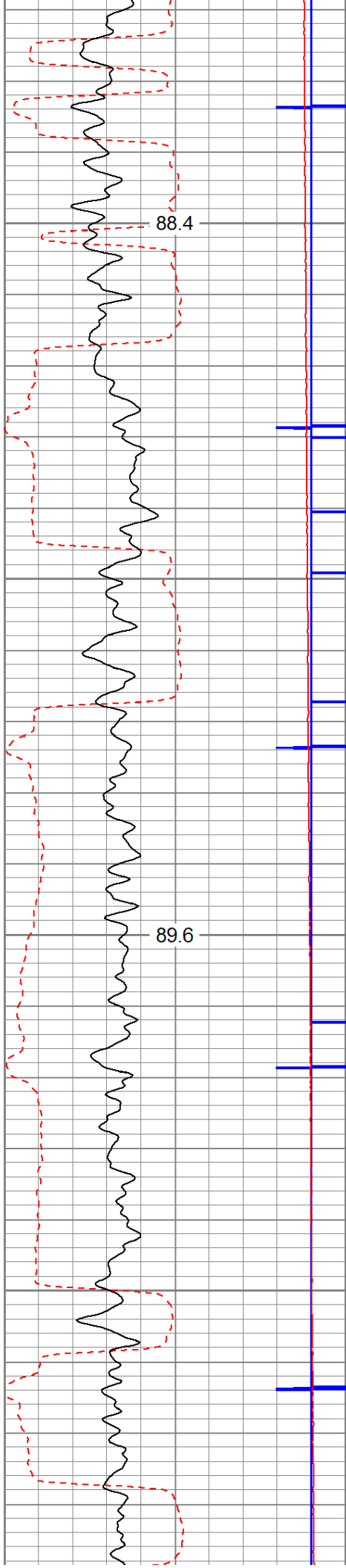




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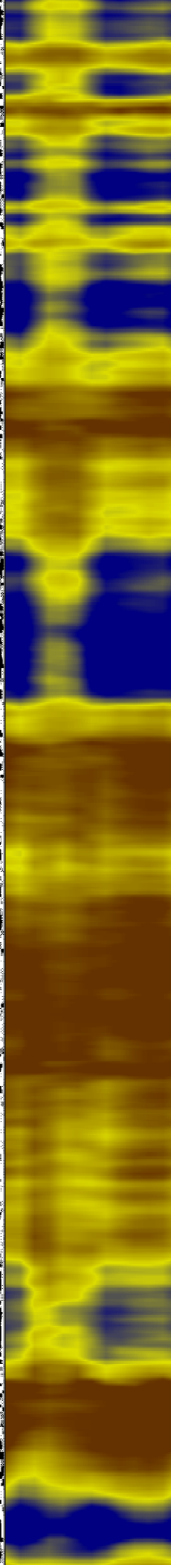
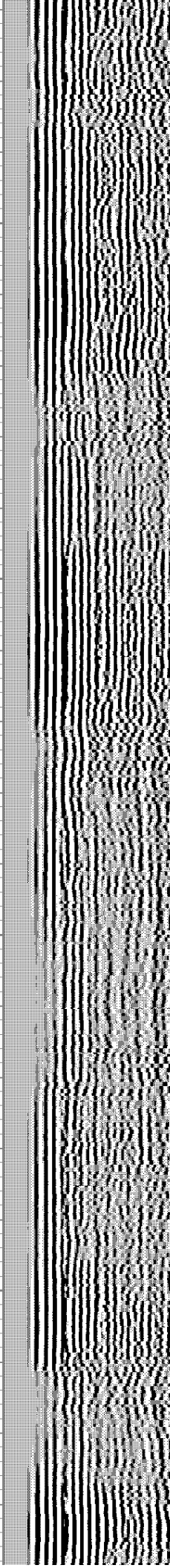
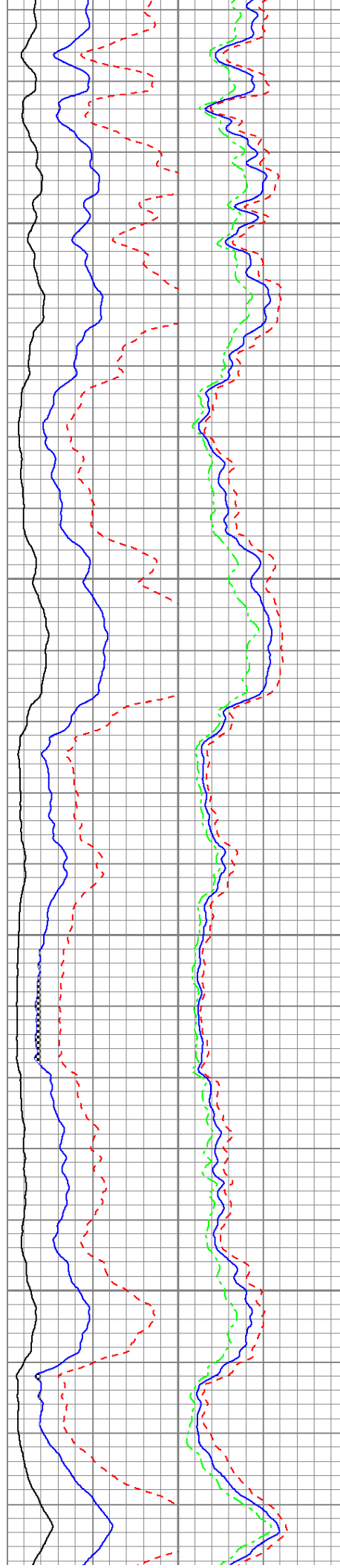
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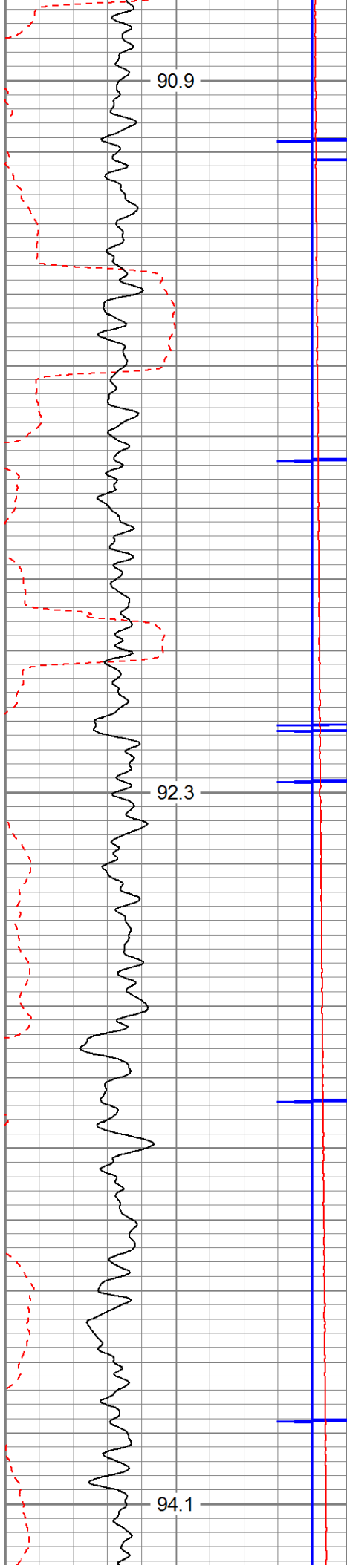




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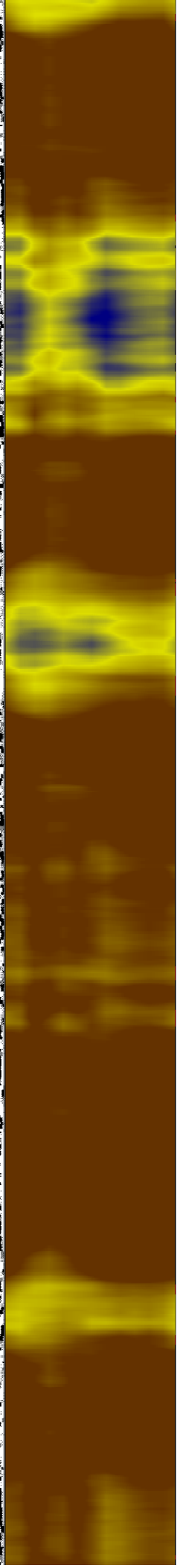
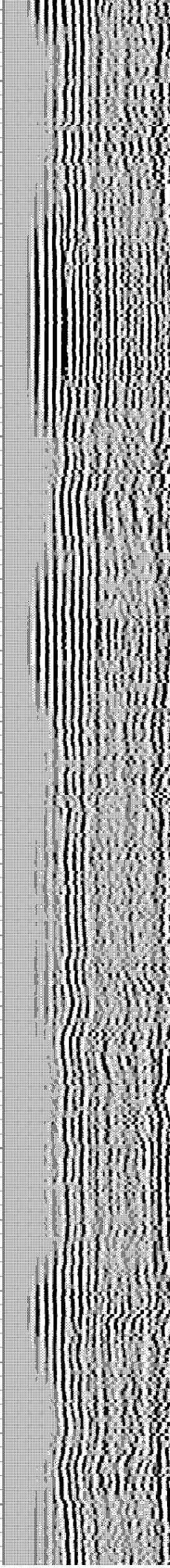
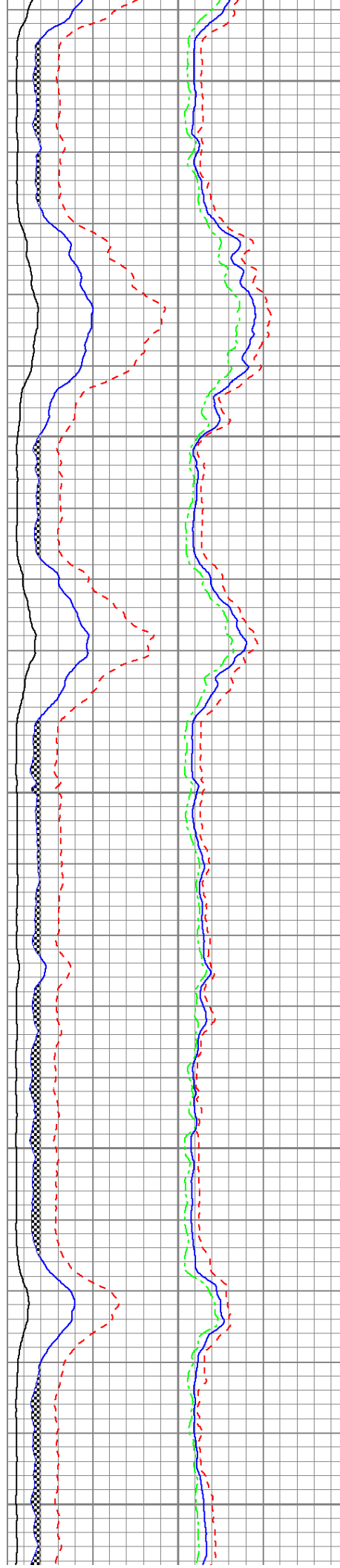


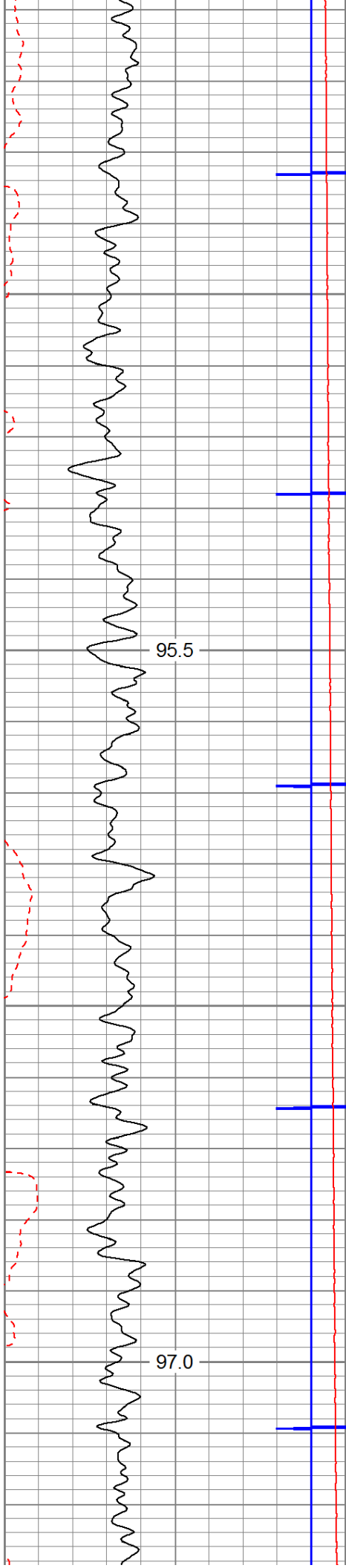


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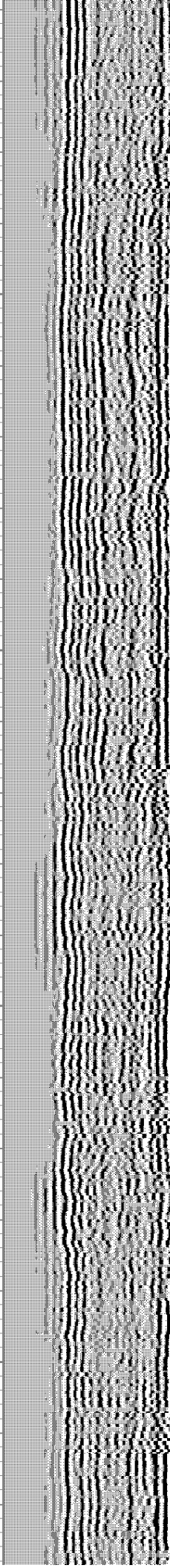
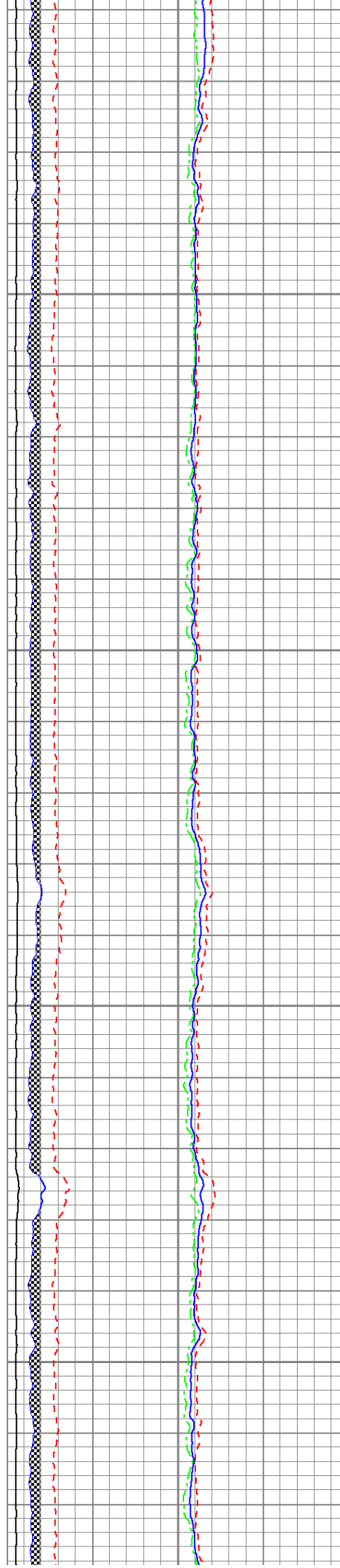
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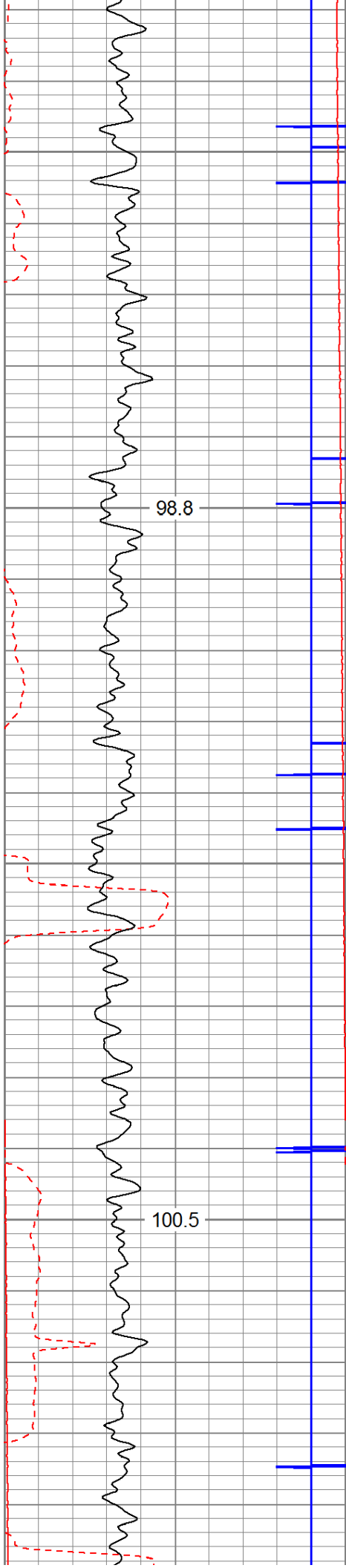




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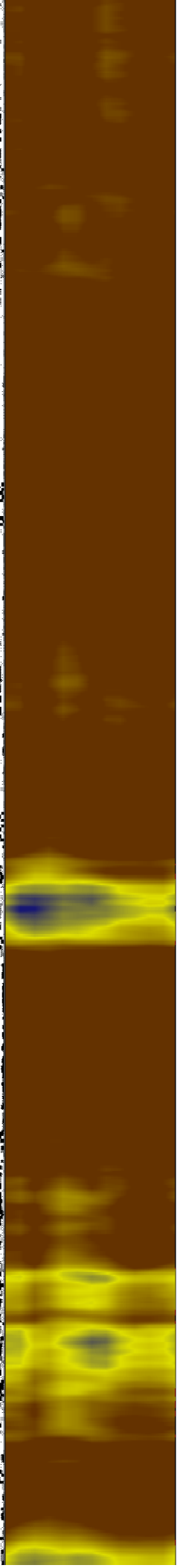
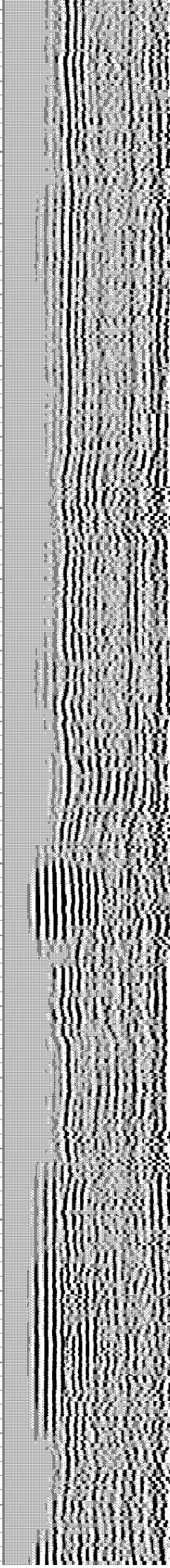
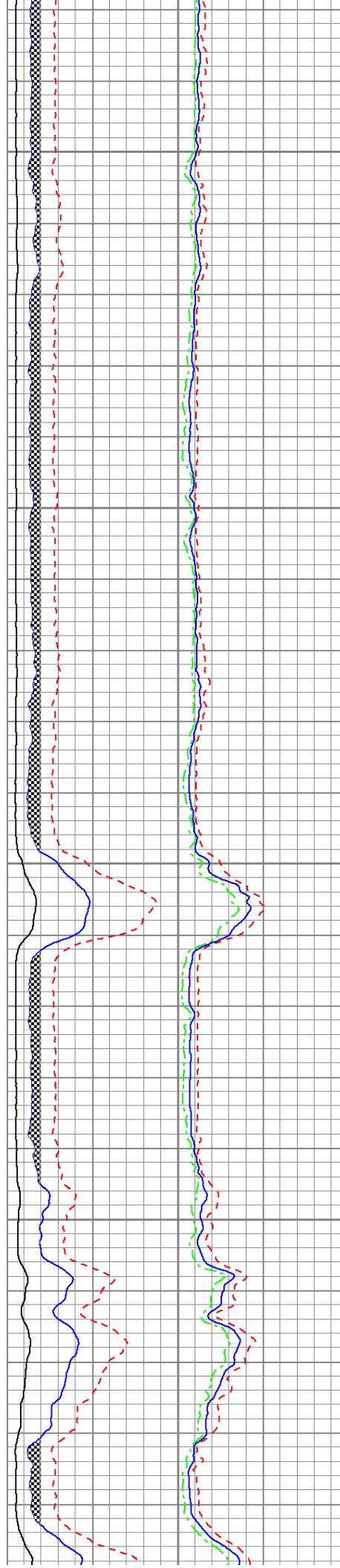
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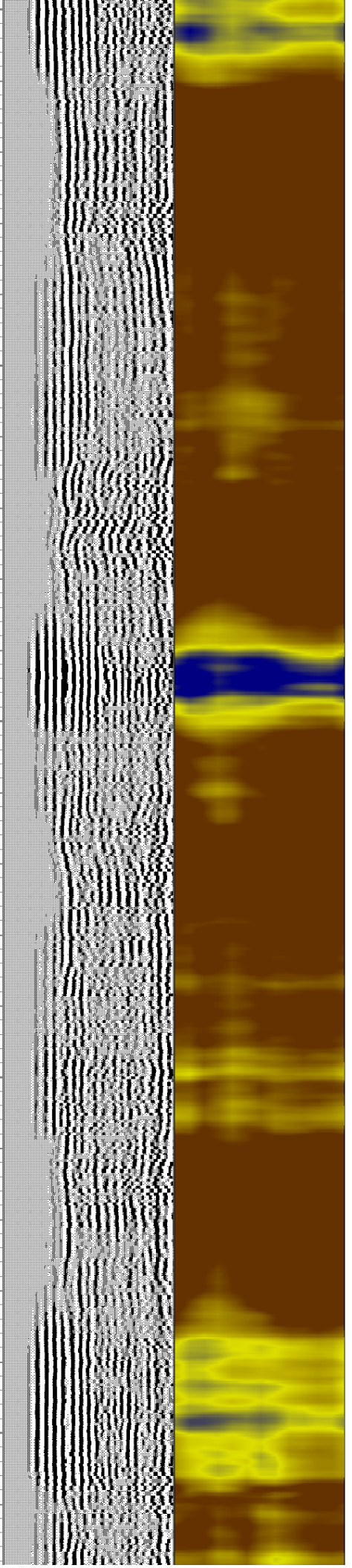
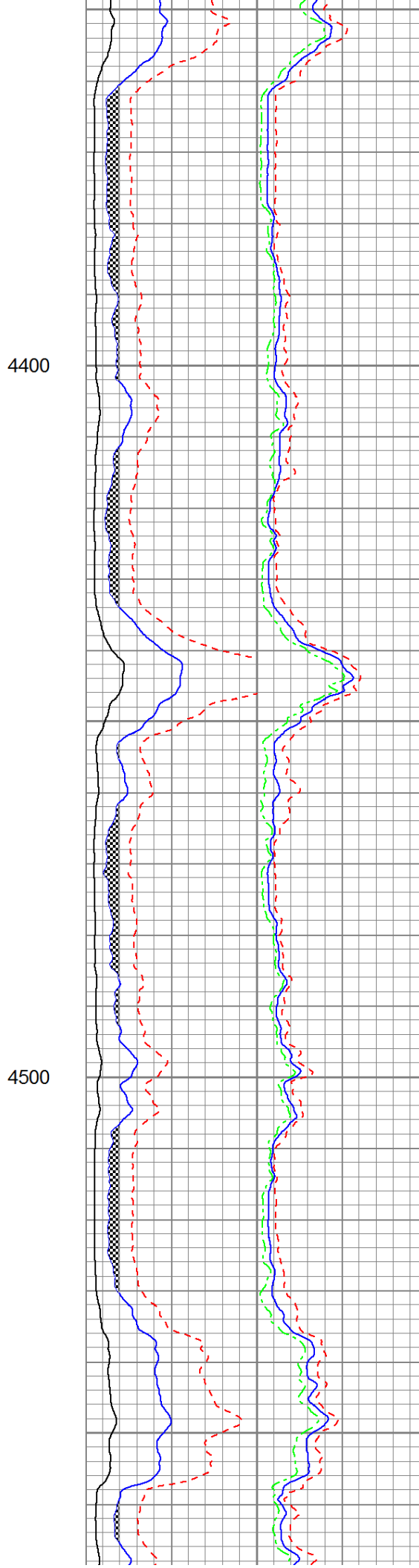
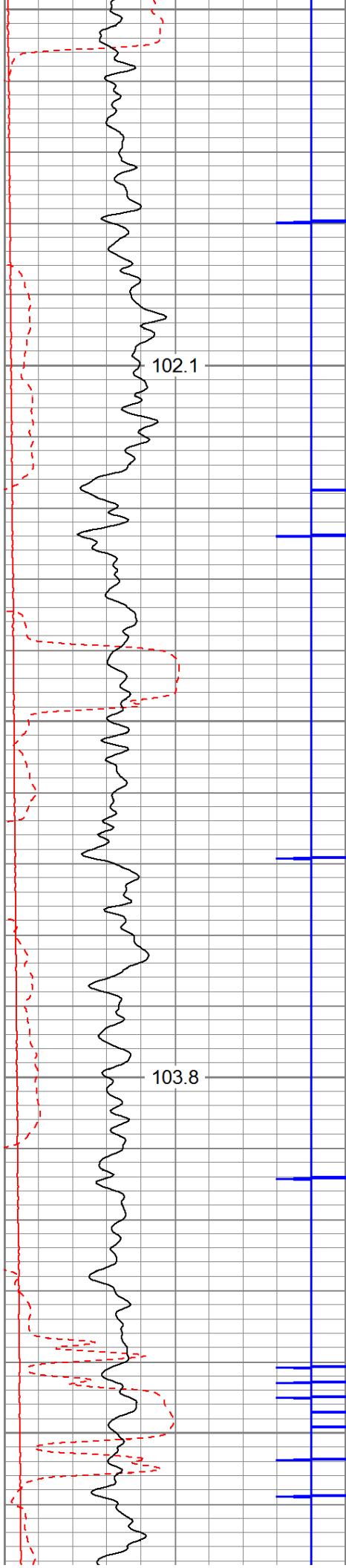


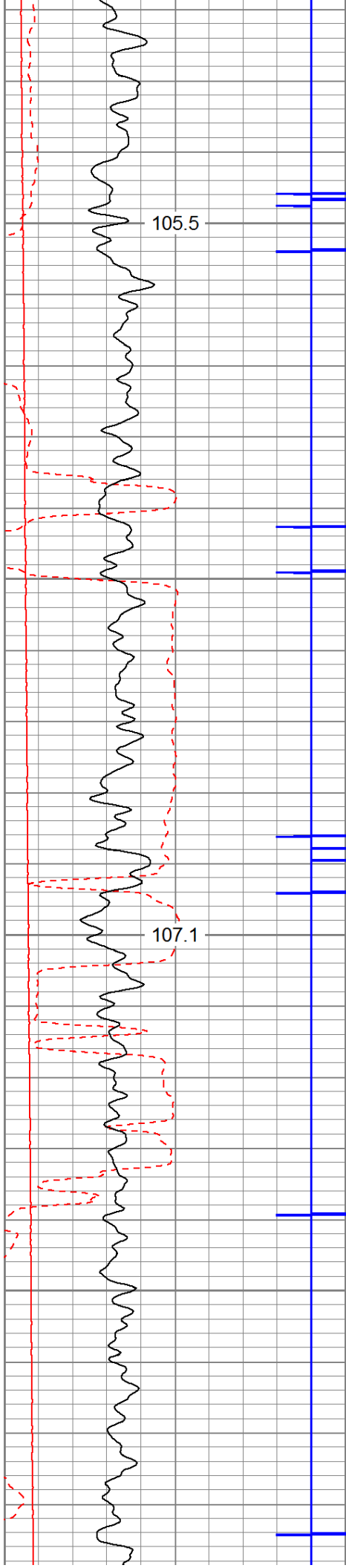


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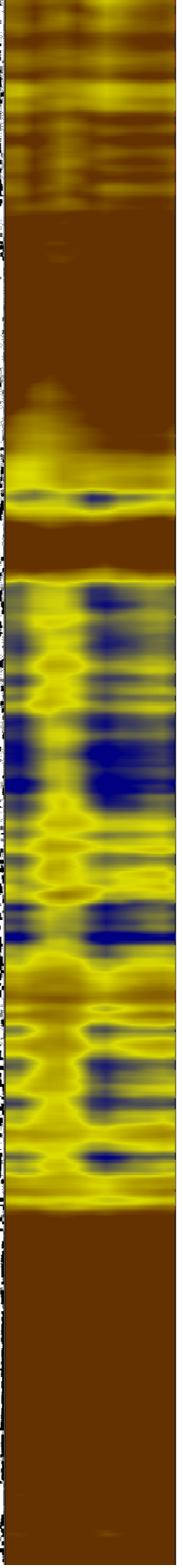
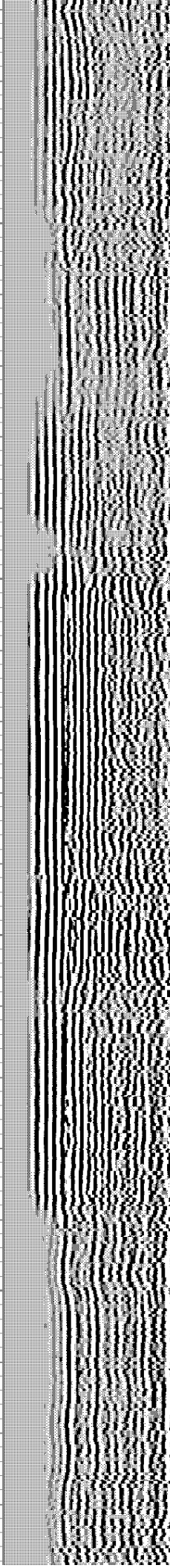
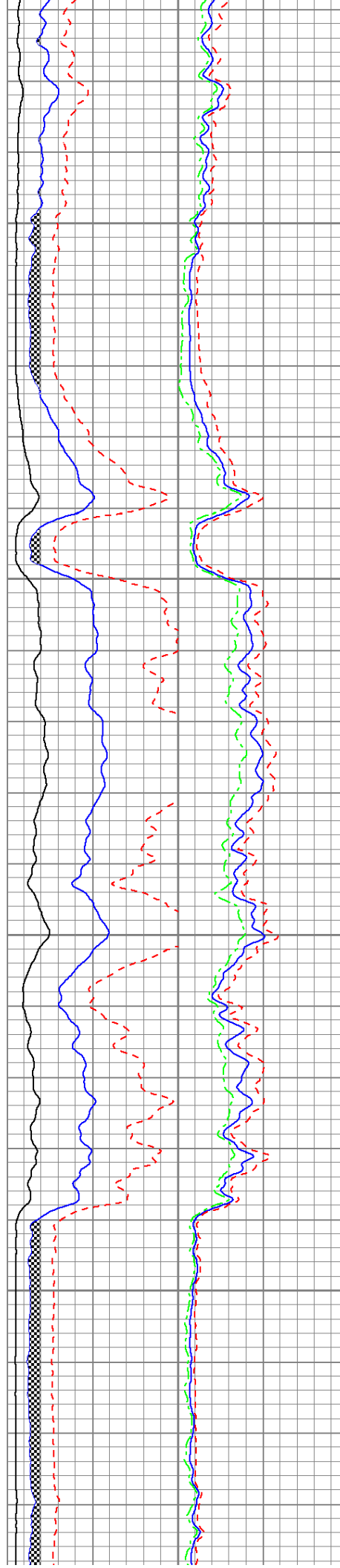


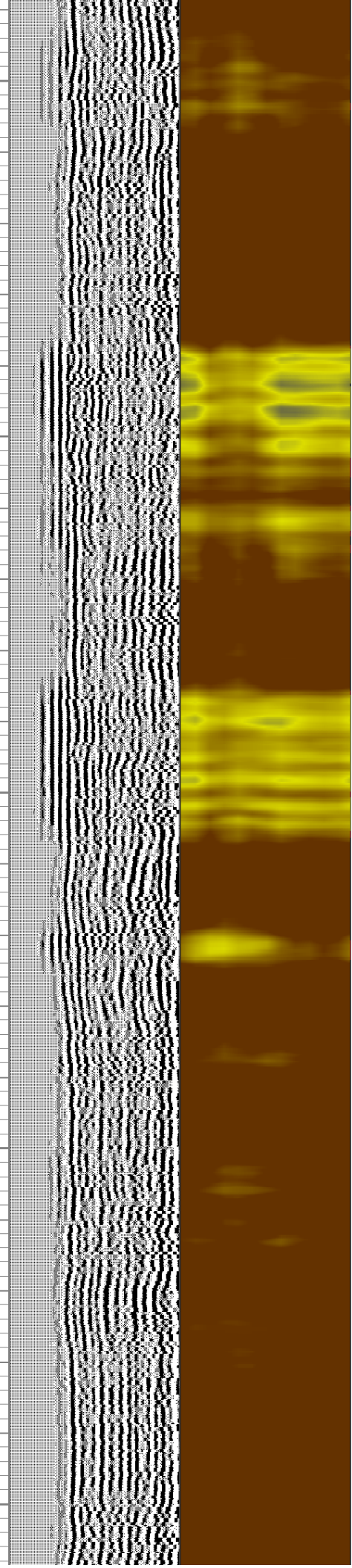
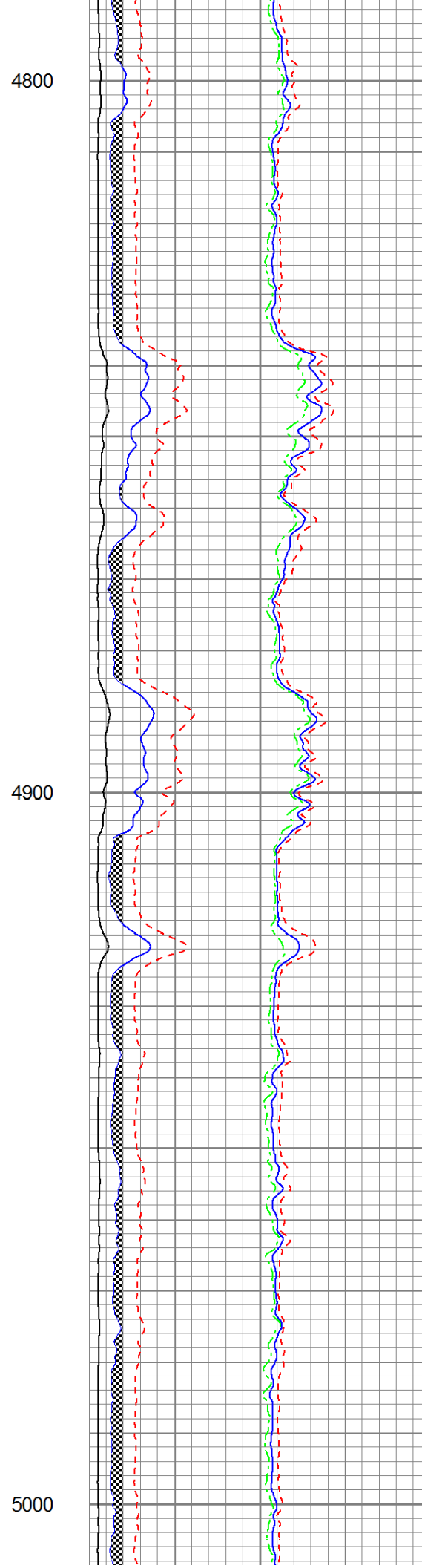
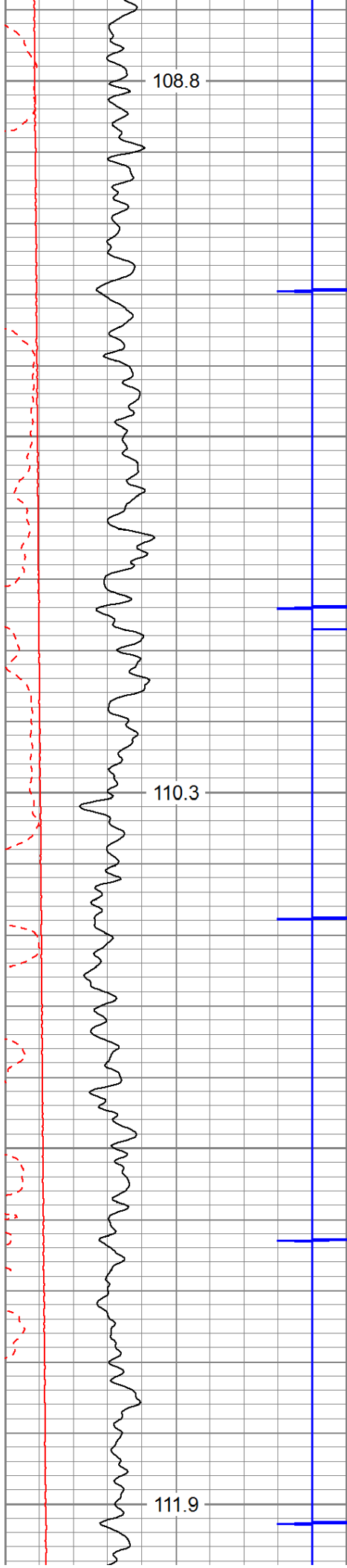


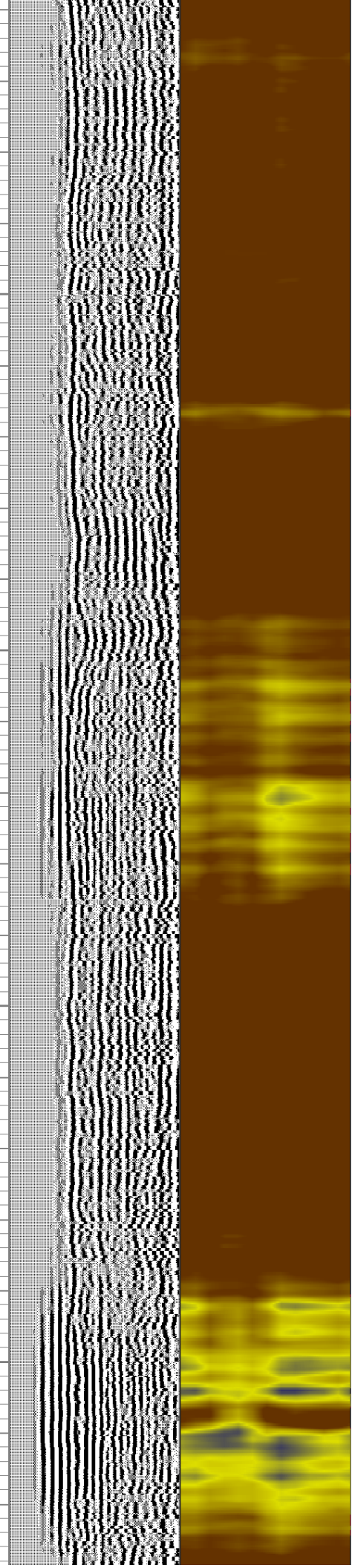
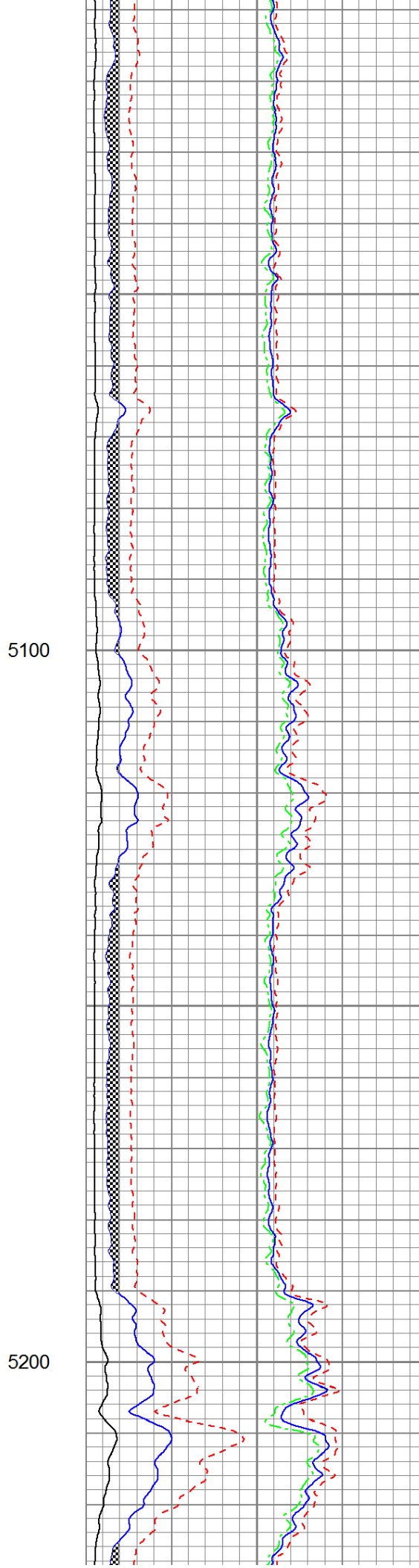
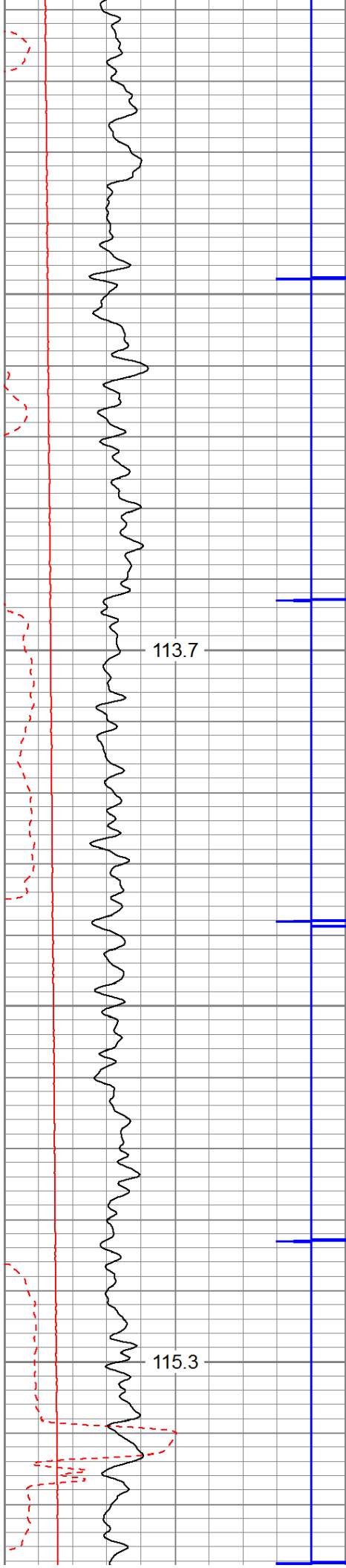


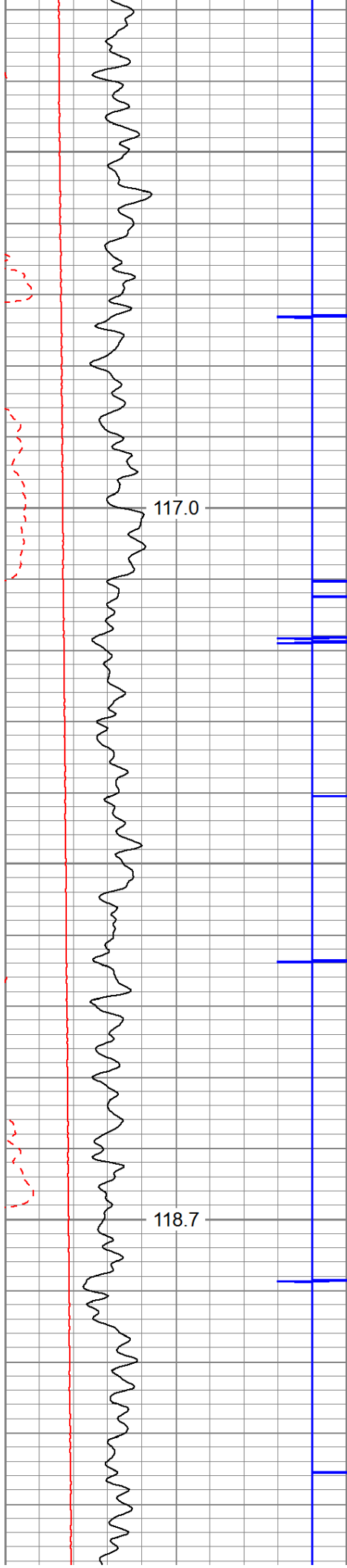
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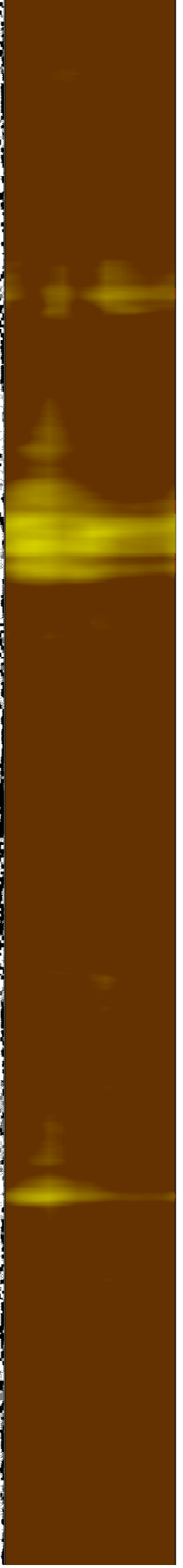
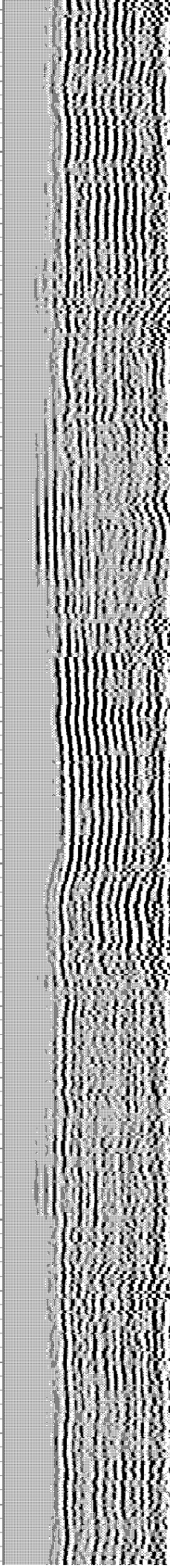
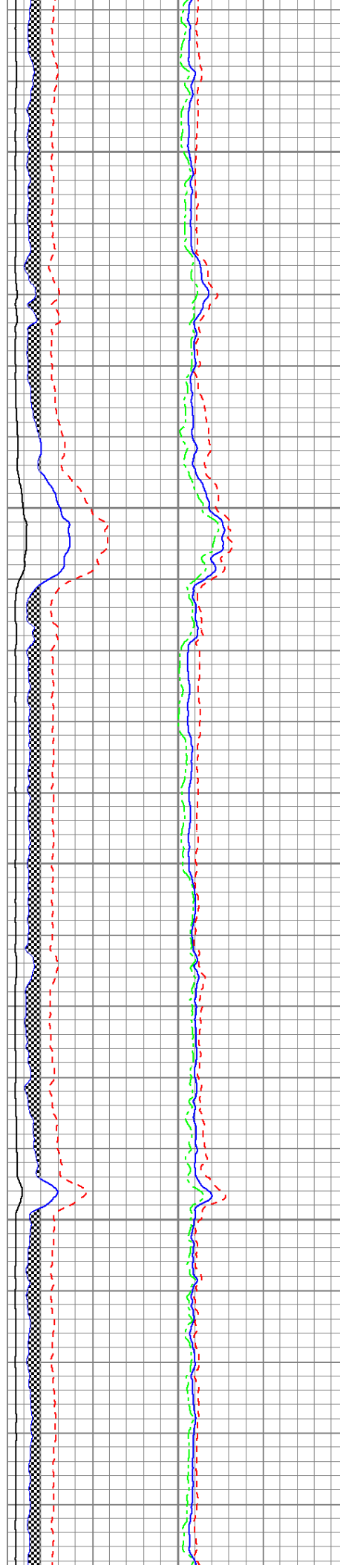


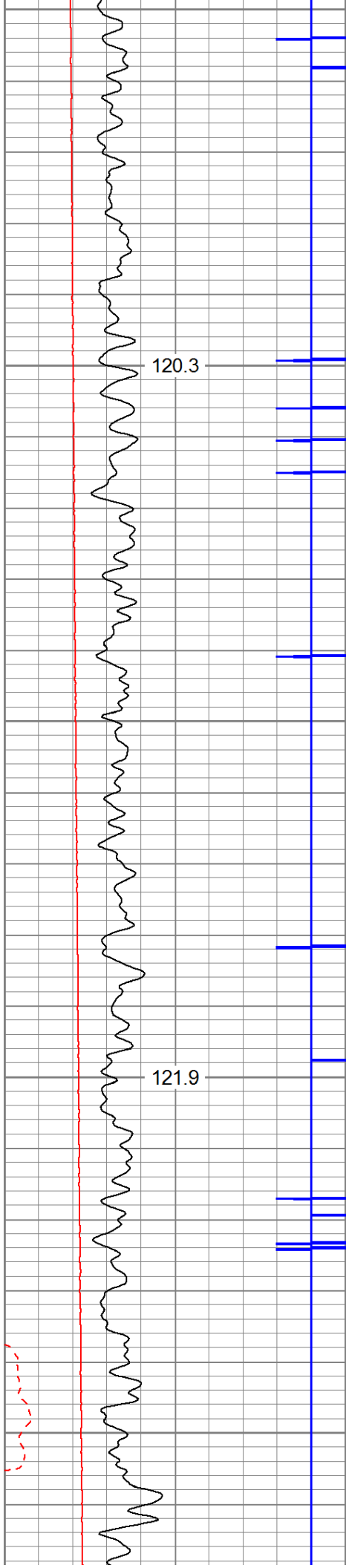




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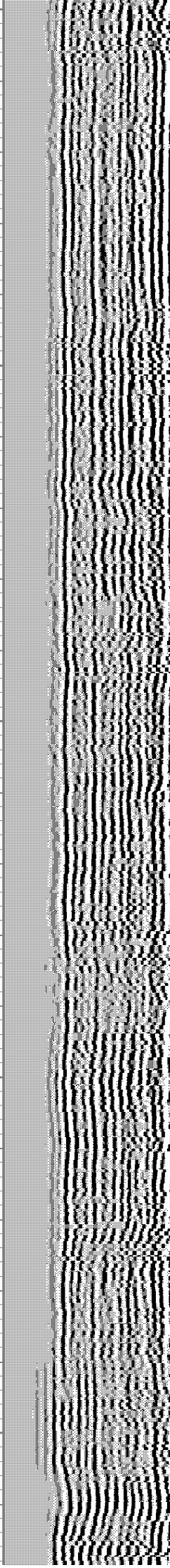
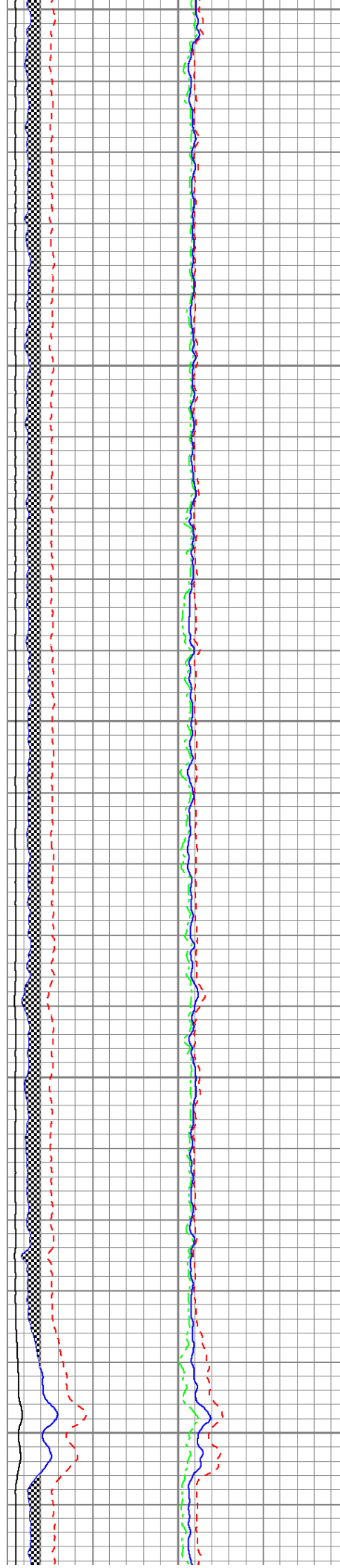
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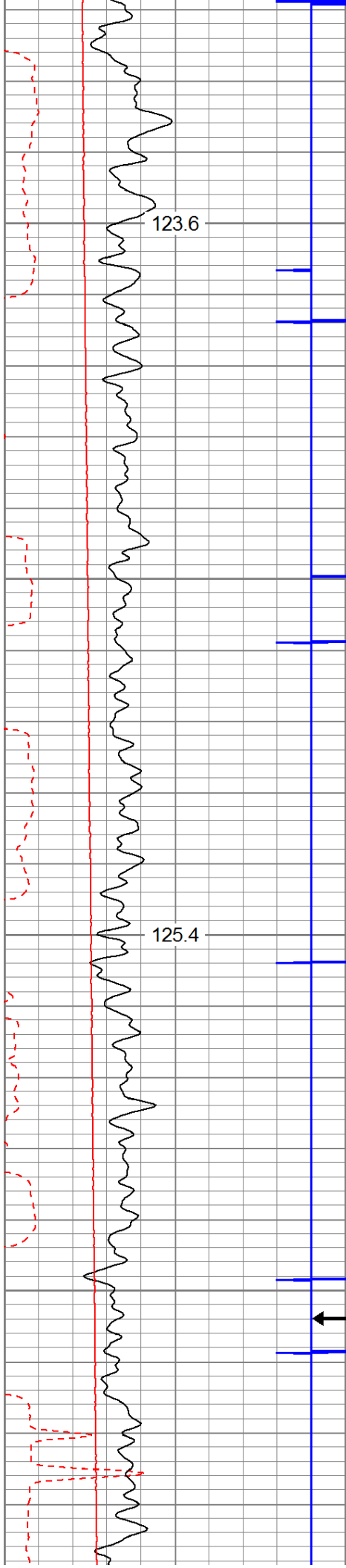




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5600

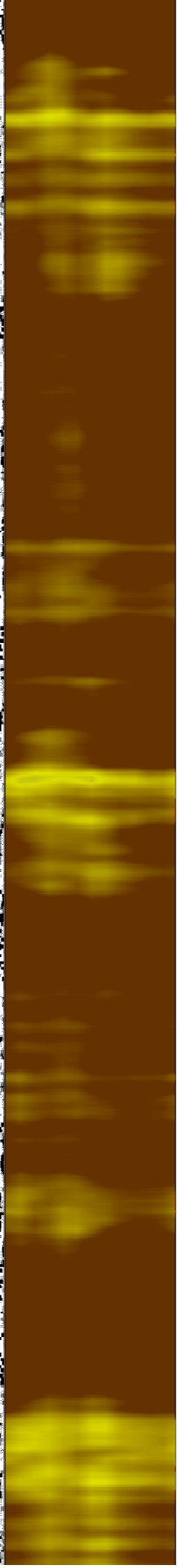
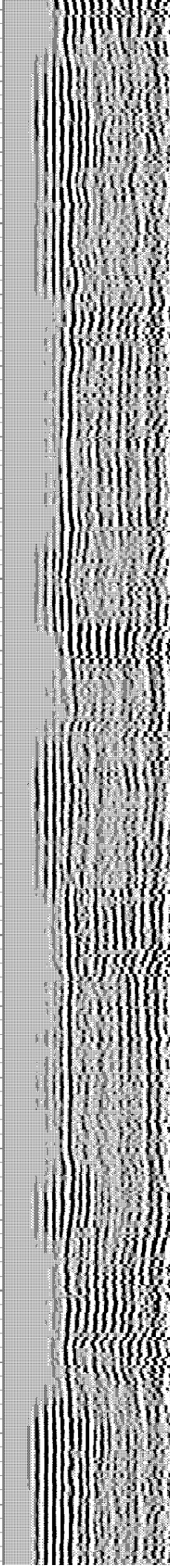
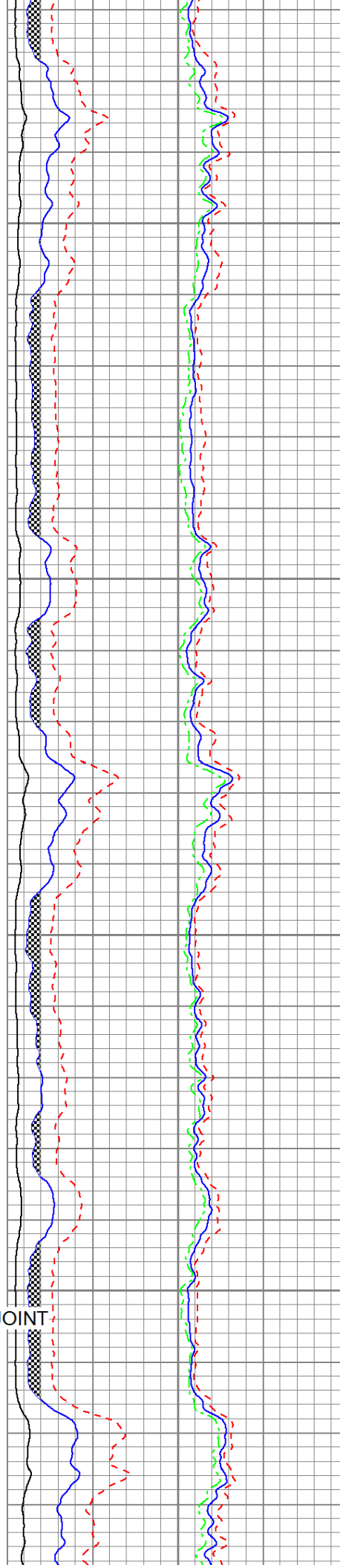


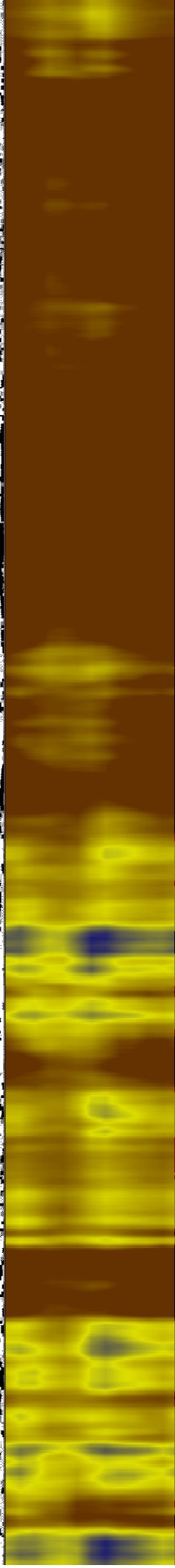
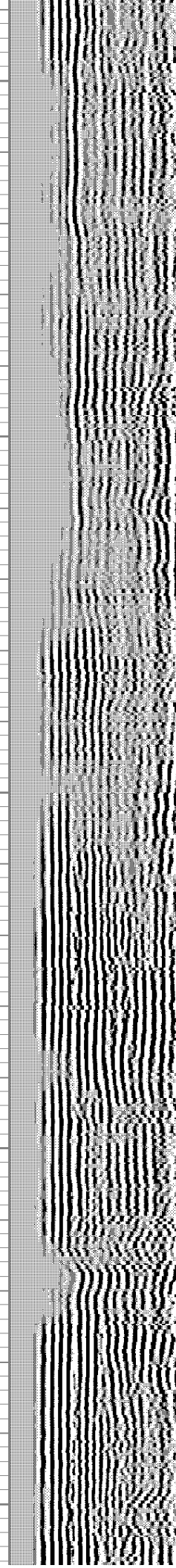
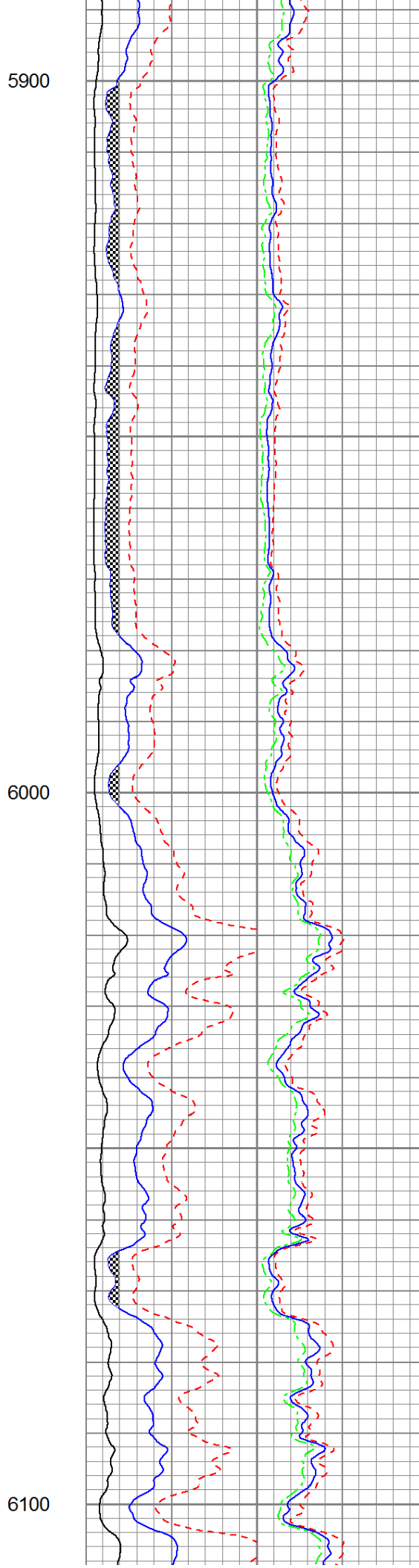
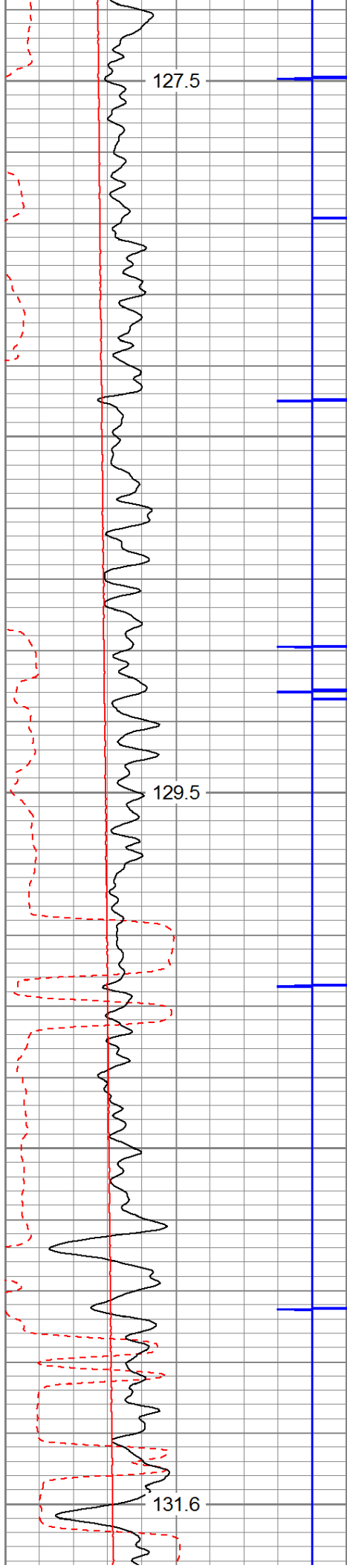


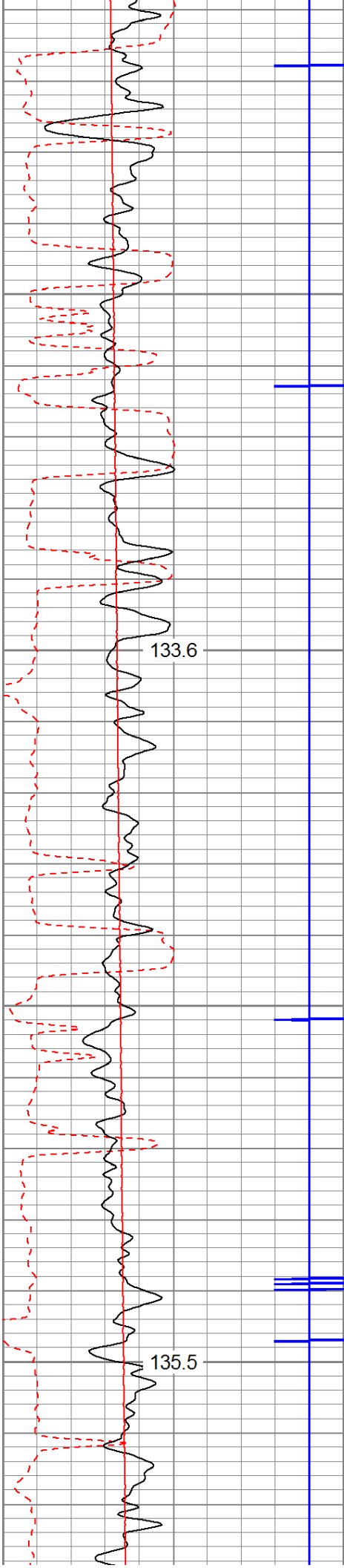
5700

5800

← MARKER JOINT

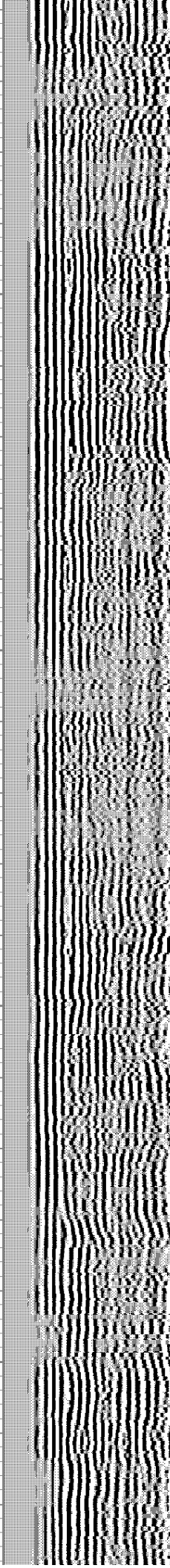
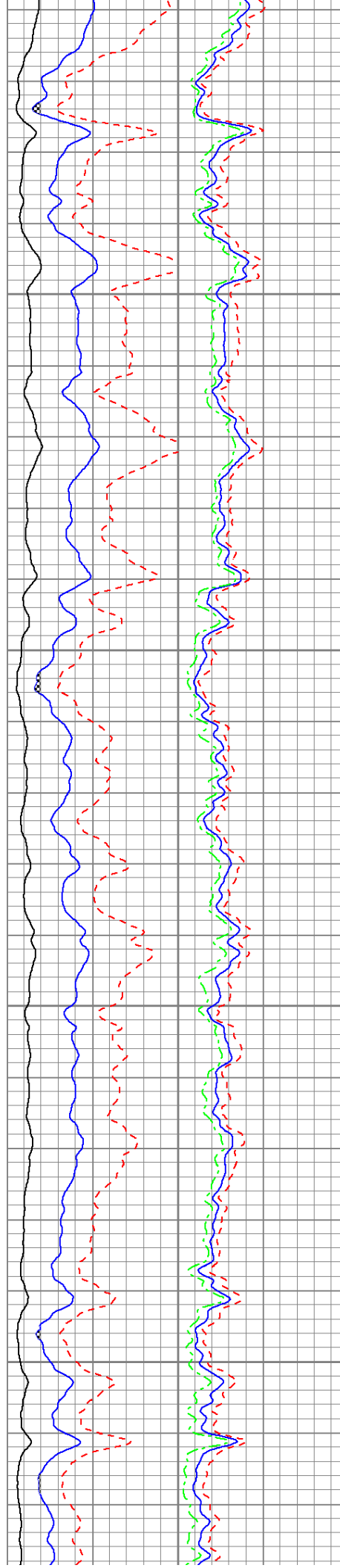


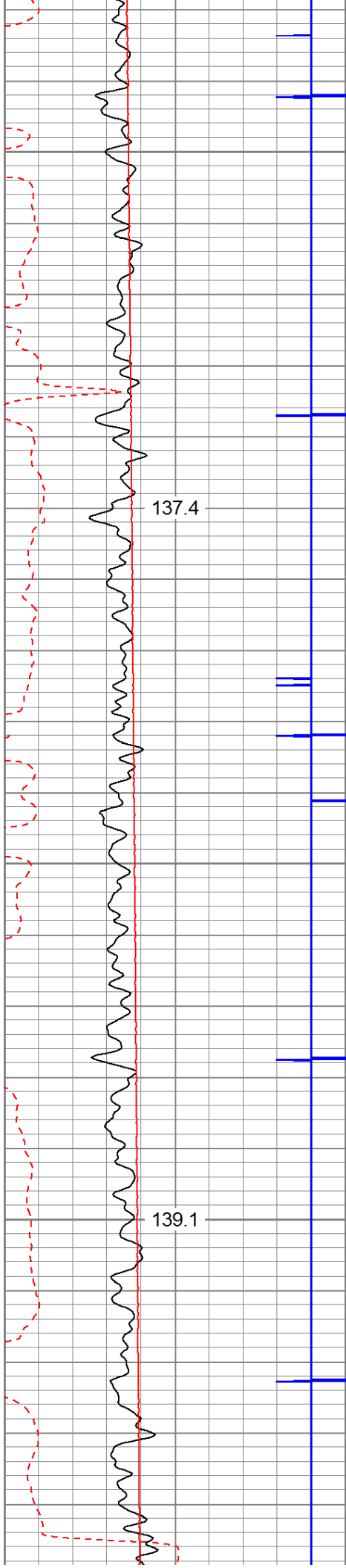




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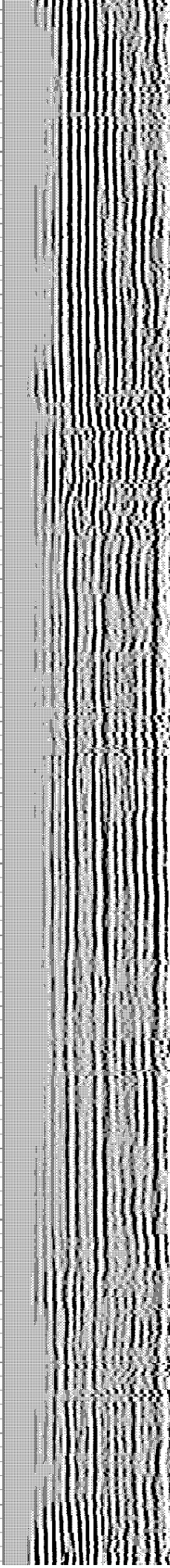
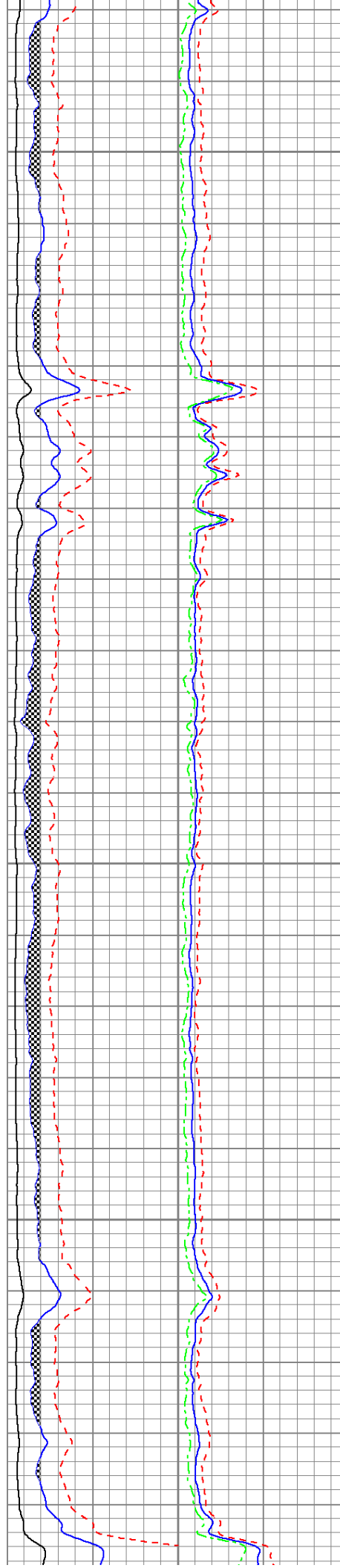
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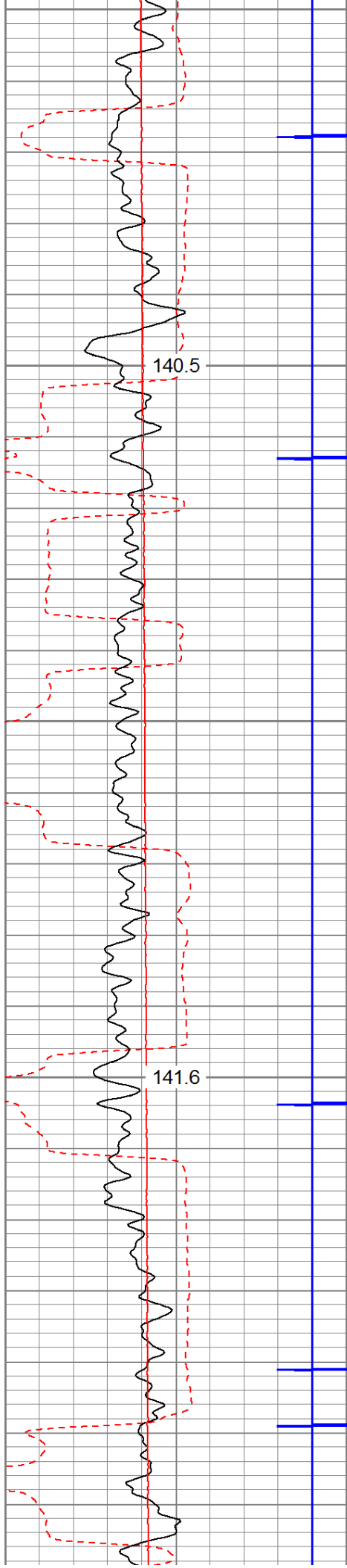




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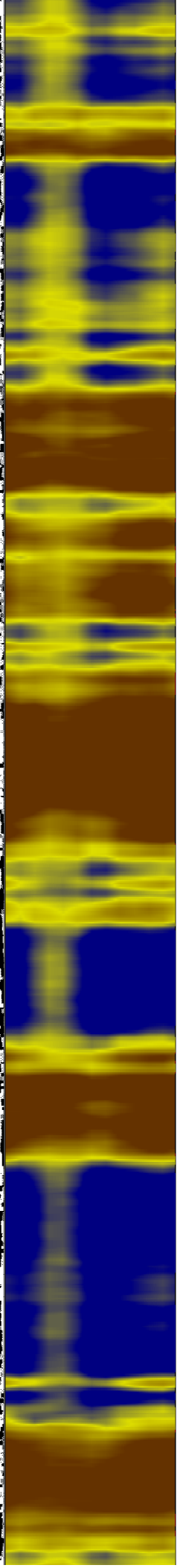
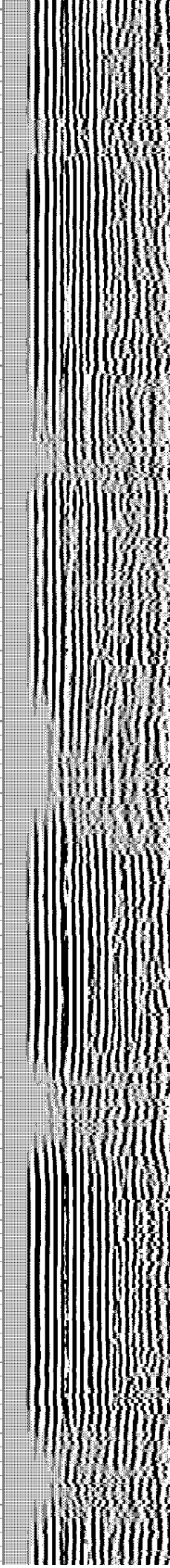
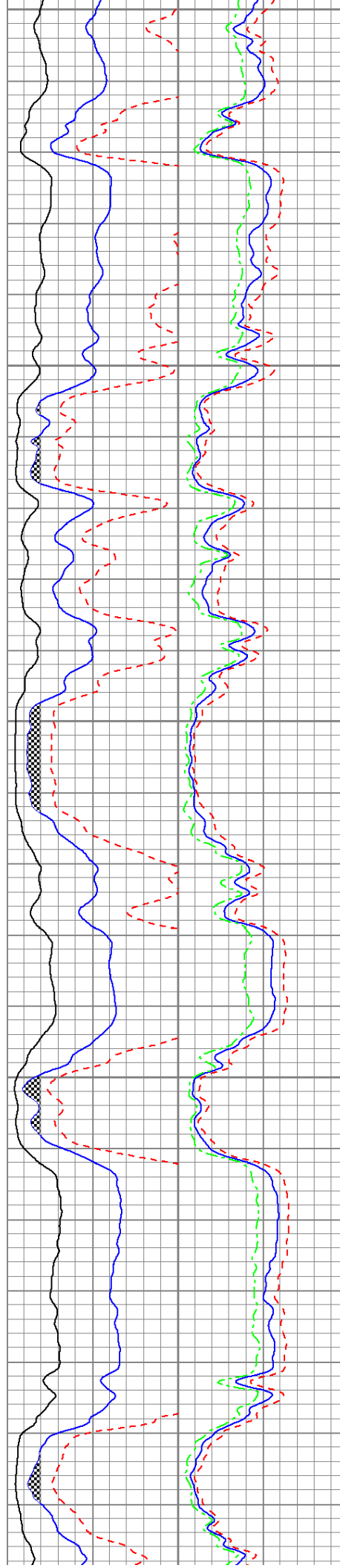
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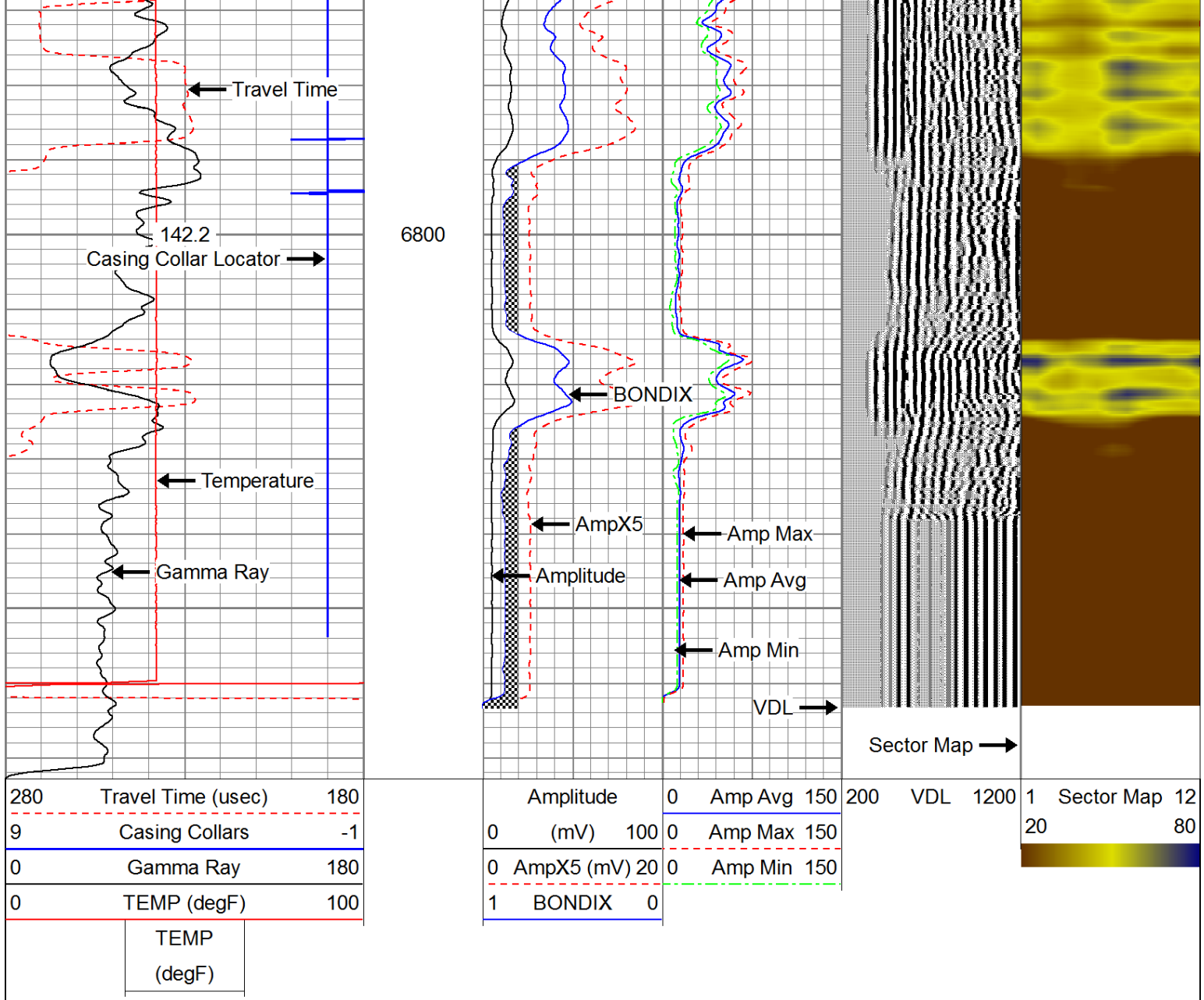




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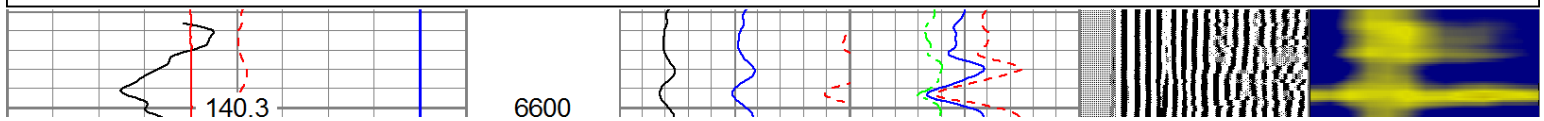
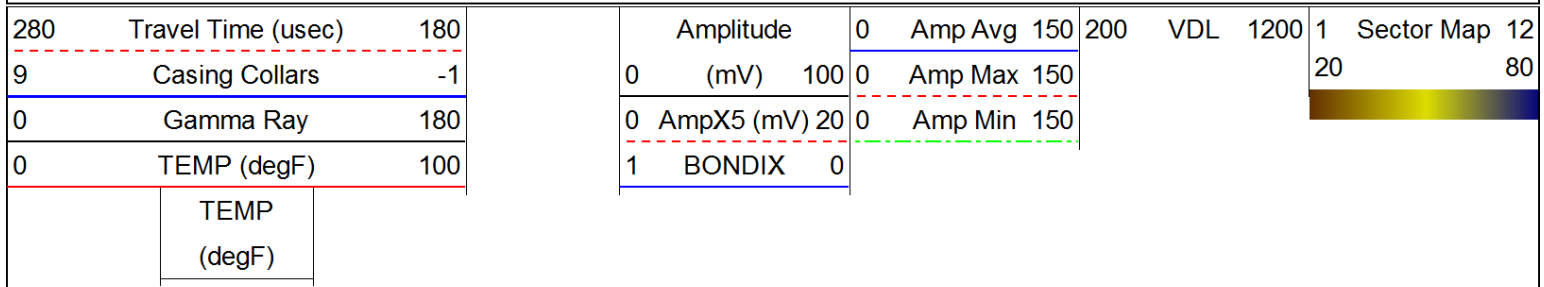
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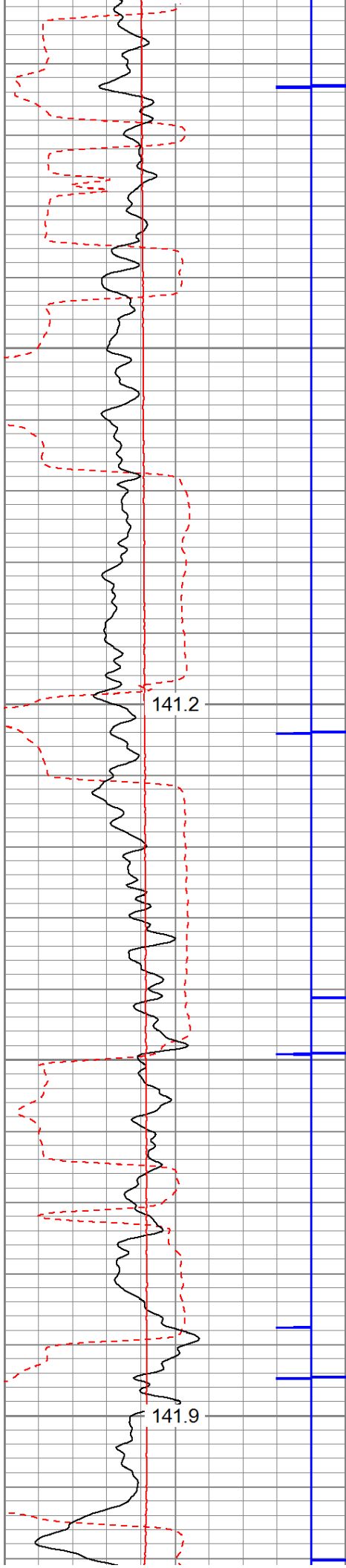




REPEAT SECTION

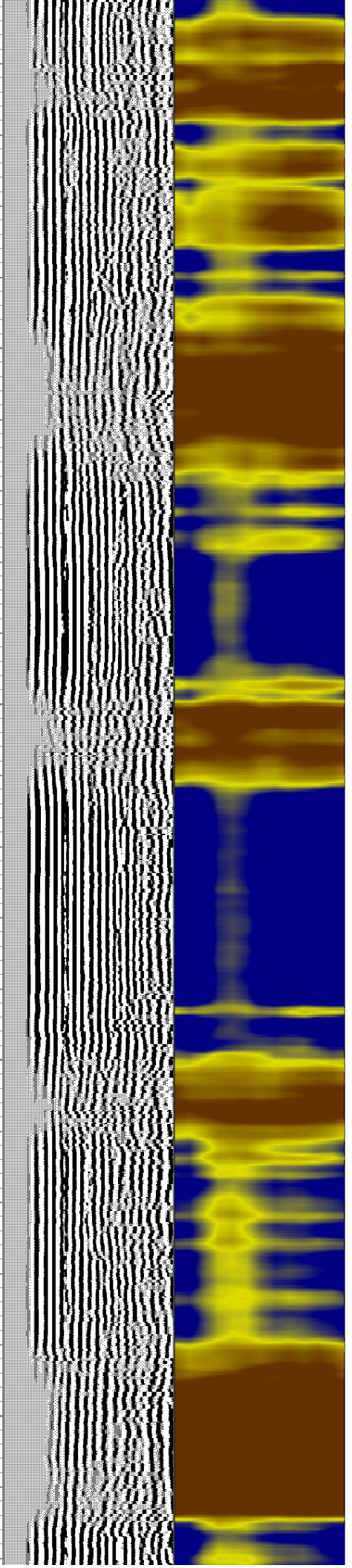
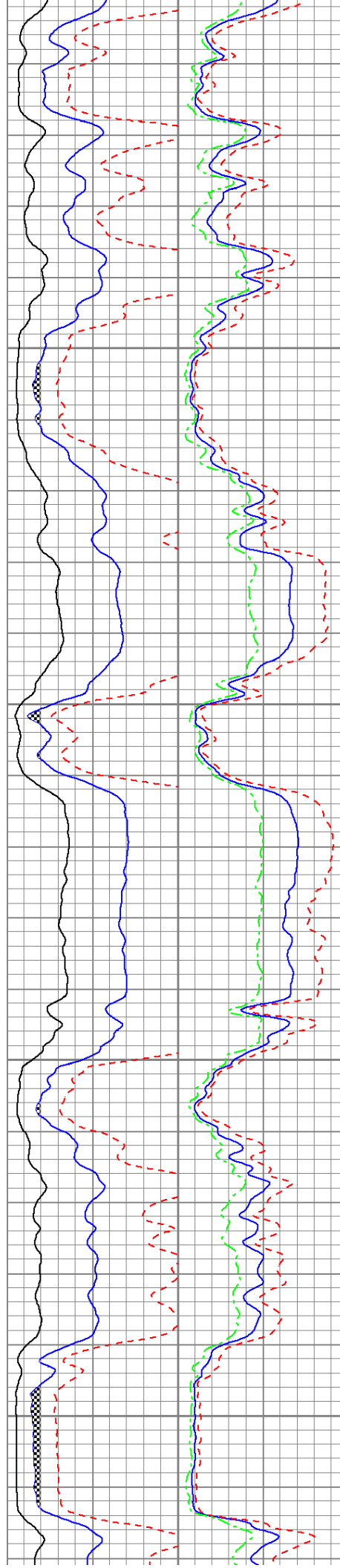
Database File: e:\rodzina 3h.db
 Dataset Pathname: pass2
 Presentation Format: antero
 Dataset Creation: Wed Oct 09 15:58:23 2019 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

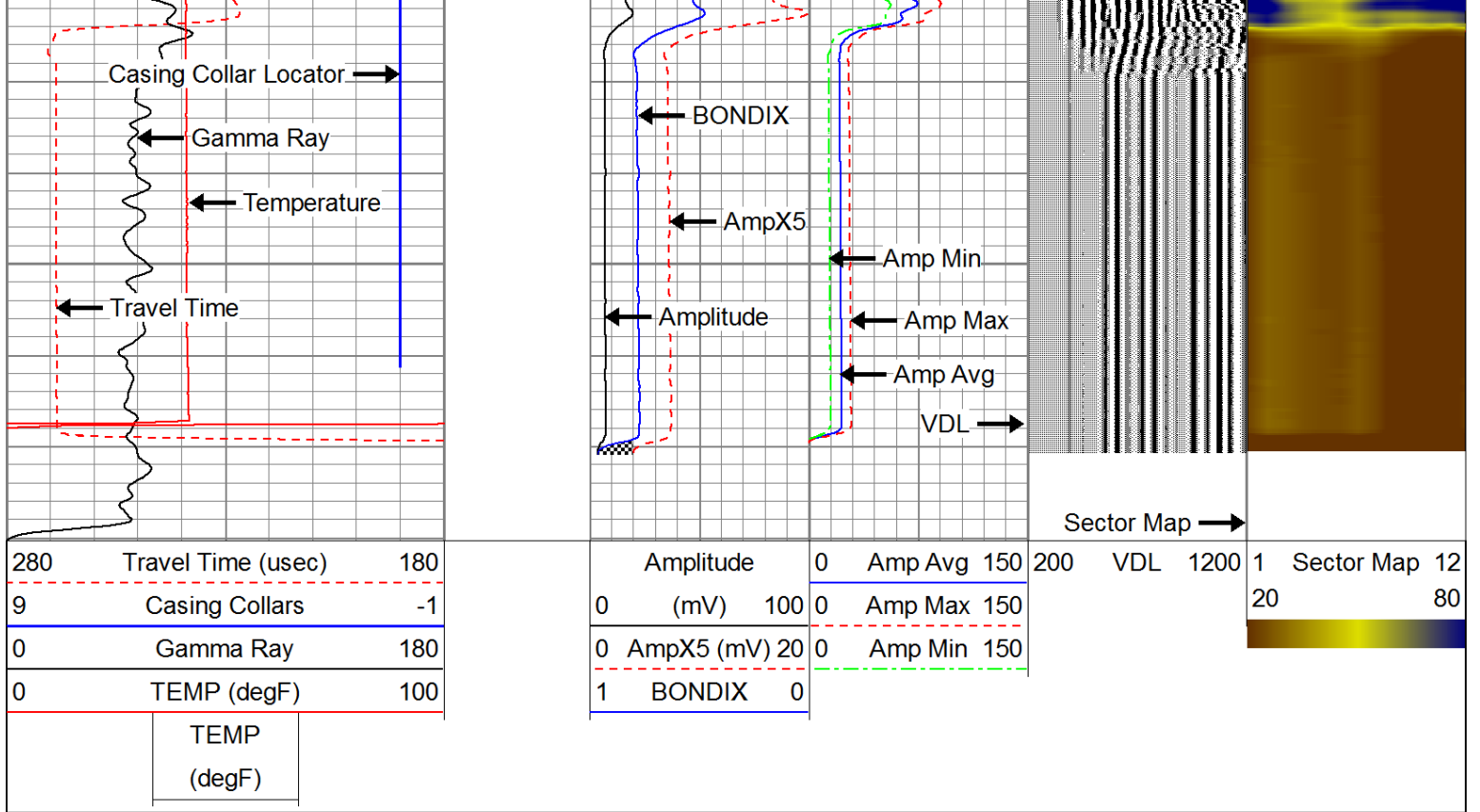




6700

6800





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.93		CCL-312tekco (3.12TEKCO) Tekco 3 1/8" 450 Deg. "F" SmCo Logging CCL	1.82	3.12	25.00
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
TEMP	12.77		SCBL-Tek12 (IOL40-05) Tekco 400 Deg F 12 Sector RIB with Temp	9.13	3.25	135.00
WVFS1	11.48					
WVFS2	11.48					
WVFS3	11.48					
WVFS4	11.48					
WVFS5	11.48					
WVFS6	11.48					
WVFS7	11.48					
WVFS8	11.48					
WVFS9	11.48					
WVFS10	11.48					

WVFS11	11.48		2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
WVFS12	11.48					
WVF3FT	10.73					
WVFCAL	10.73					
WVF5FT	9.73					
WVFTEMP	6.40					
WVFSYNC	6.40					
GR	1.04	3.67	2.75	40.00		

Dataset: rodzina 3h.db: field/well/run1/pass3.1
 Total Length: 20.07 ft
 Total Weight: 250.00 lb
 O.D.: 3.25 in

Calibration Report

Database File: E:\rodzina 3h.db
 Dataset Pathname: pass3.1
 Dataset Creation: Wed Oct 09 17:43:48 2019 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number: IPSNO-03
 Tool Model: Tek-Co 2 3/4
 Performed: Wed Oct 09 09:42:39 2019

 Calibrator Value: 1.0

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.3000 /cps

Temperature Calibration Report

Serial Number: IOL40-05
 Tool Model: Tek12
 Performed: Wed Jul 31 10:53:14 2013

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec

Gain: 0.33
 Offset: 0.00
 Delta Spacing: 2



Well
Field
County
State

RODZINA 3H
MARCELLUS
TYLER
W.V.

Country