

**Segmented Radial Cement Bond  
W/Gamma Ray, CCL  
Log**

Company Antero Resources Corporation Well Weese Unit 1H Field Marcellus County Tyler State WV Country US	Company Antero Resources Corporation Well Weese Unit 1H Field Marcellus County Tyler State WV Country US	Location: API #: 47095025520000 Other Services	SEC TWP RGE Permanent Datum Ground Level Elevation Log Measured From R.K.B. 25' Drilling Measured From R.K.B.																																																							
Date 14-NOV-2019 Run Number ONE Depth Driller 21272' Depth Logger 6370' Bottom Logged Interval 6370' Top Log Interval Surface Open Hole Size 8.25" Type Fluid F/W Density / Viscosity 8.6 Max. Recorded Temp. 134 degF Estimated Cement Top 2980' Time Well Ready N/A Time Logger on Bottom N/A Equipment Number 214182 Location Bridgeport, WV Recorded By S. Butler Witnessed By Jerrako Evans	<b>Borehole Record</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Run Number</th> <th>Bit</th> <th>From</th> <th>To</th> <th>Size</th> <th>Weight</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>ONE</td> <td>24"</td> <td>Surface</td> <td>80'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TWO</td> <td>17.5"</td> <td>80'</td> <td>450'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>THREE</td> <td>12.25"</td> <td>450'</td> <td>2571'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FOUR</td> <td>8.25"</td> <td>2571'</td> <td>21272'</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Run Number	Bit	From	To	Size	Weight	From	To	ONE	24"	Surface	80'					TWO	17.5"	80'	450'					THREE	12.25"	450'	2571'					FOUR	8.25"	2571'	21272'					<b>Tubing Record</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Size</th> <th>Wgt/ft</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>13.375"</td> <td>54.5</td> <td>Surface</td> <td>450'</td> </tr> <tr> <td>9.625"</td> <td>40</td> <td>Surface</td> <td>2571'</td> </tr> <tr> <td>5.5"</td> <td>20</td> <td>Surface</td> <td>21272'</td> </tr> </tbody> </table>	Size	Wgt/ft	Top	Bottom	13.375"	54.5	Surface	450'	9.625"	40	Surface	2571'	5.5"	20	Surface	21272'
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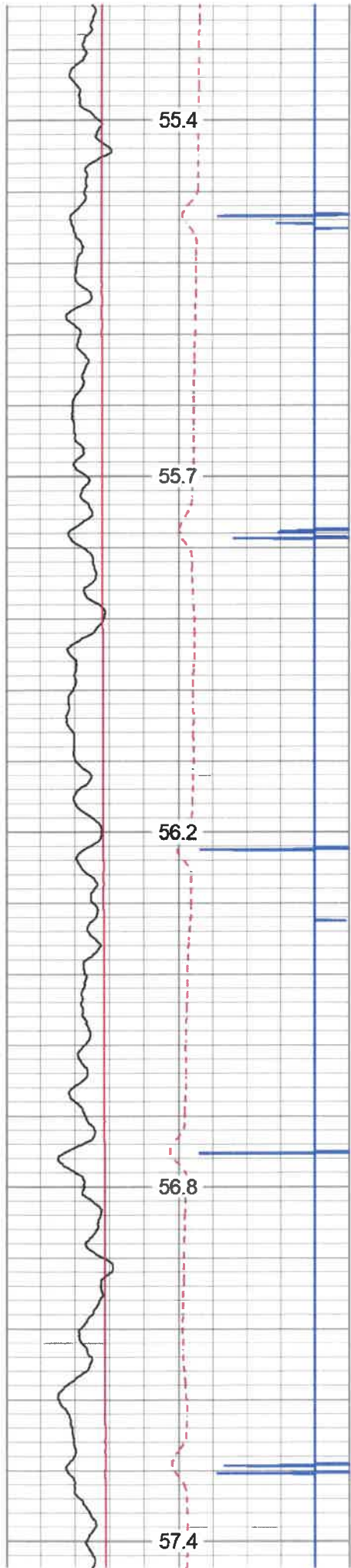
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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**

Zero @ R.K.B. 25'  
 Marker Joint 5770' - 5780'  
 Log TD 6370'  
 Cement Top @ 2980'  
 Log Ran Under 1500 PSI



**Main Pass**



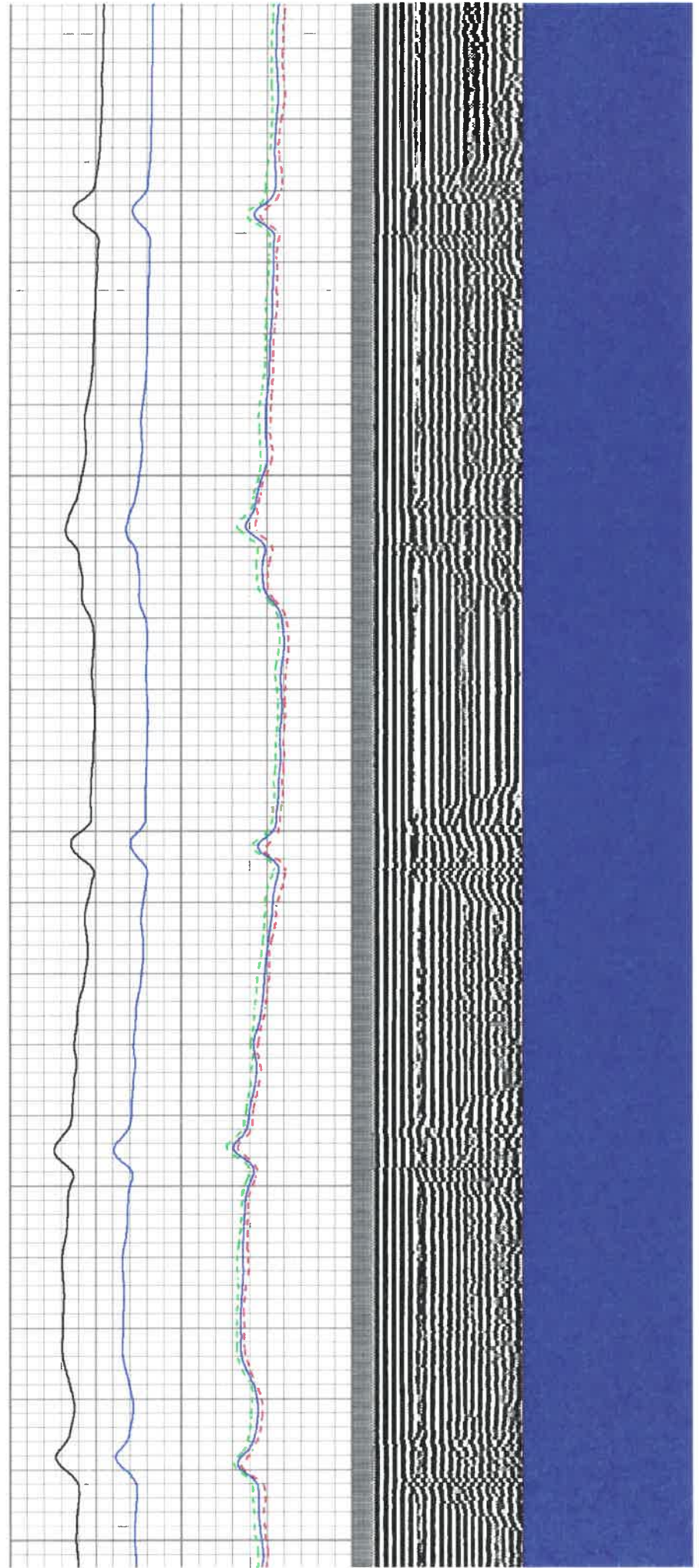
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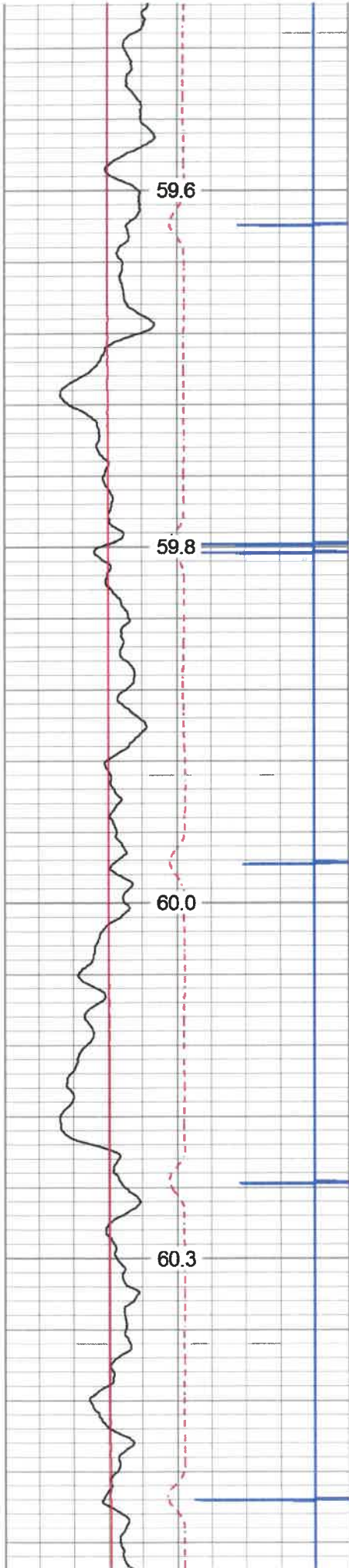
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350

400



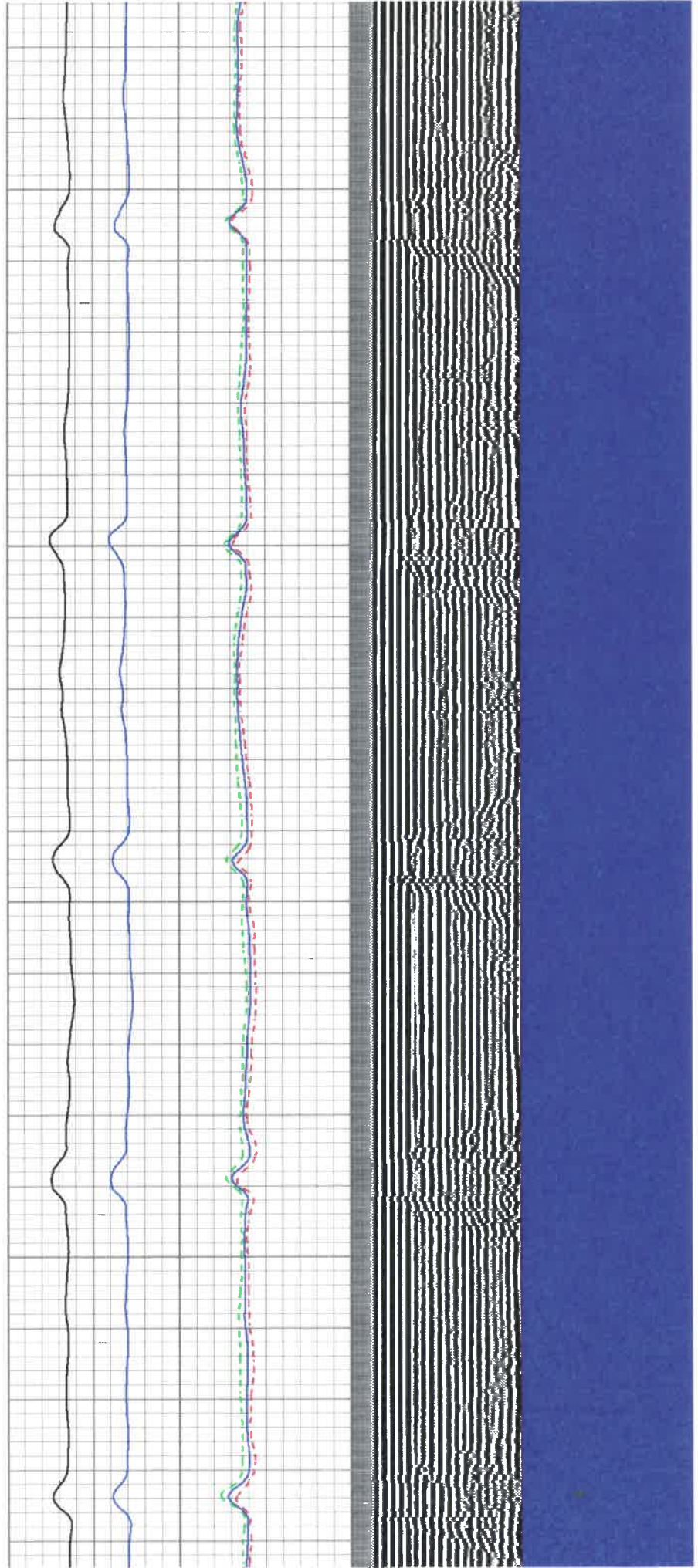


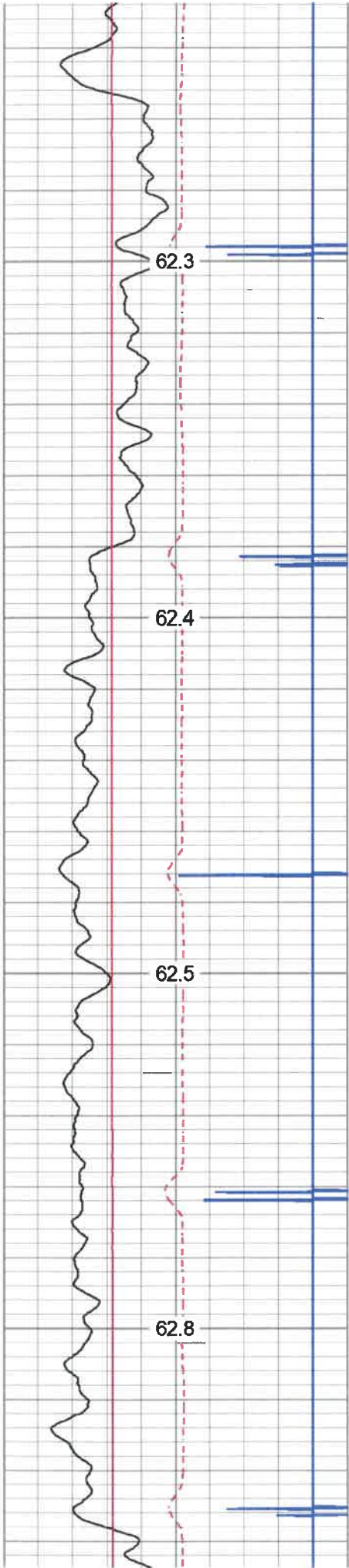
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750

800



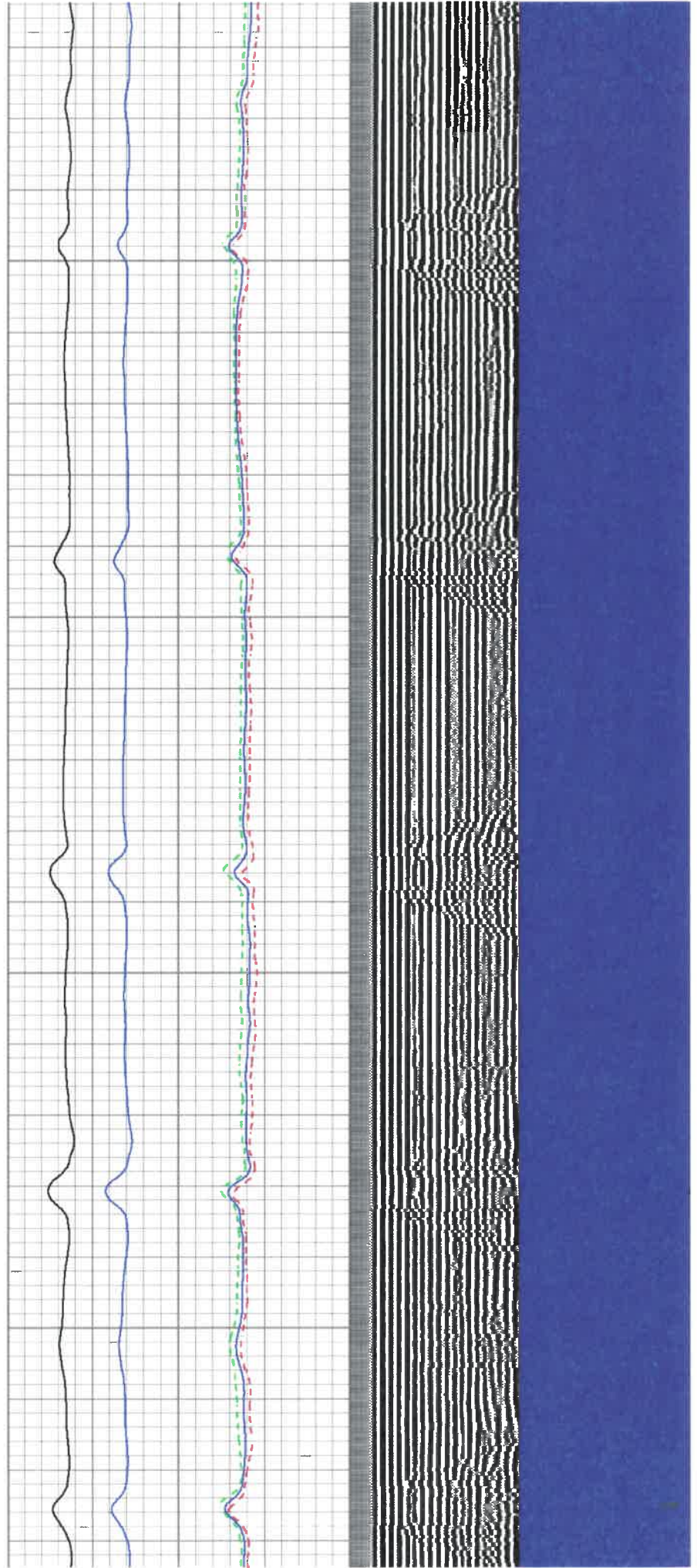


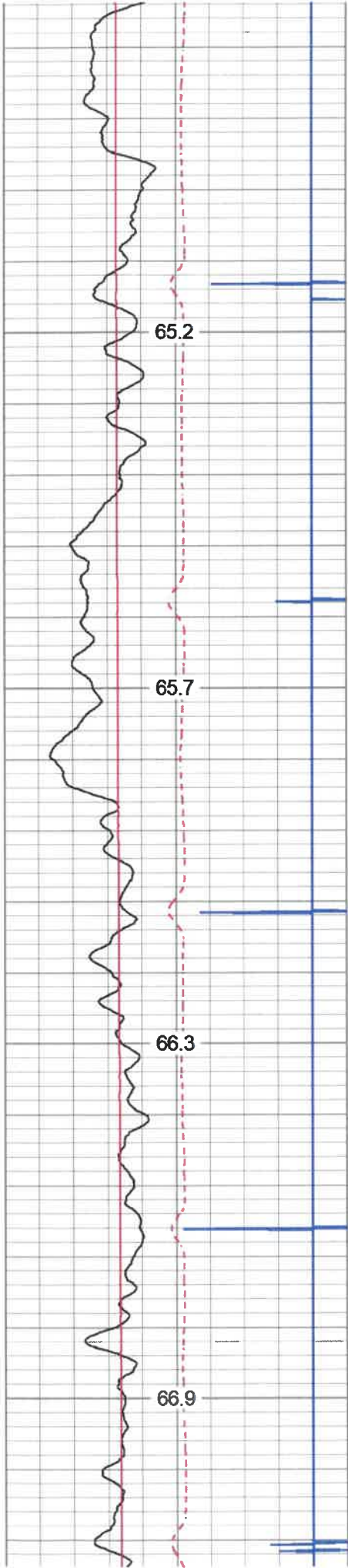
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1200

1250



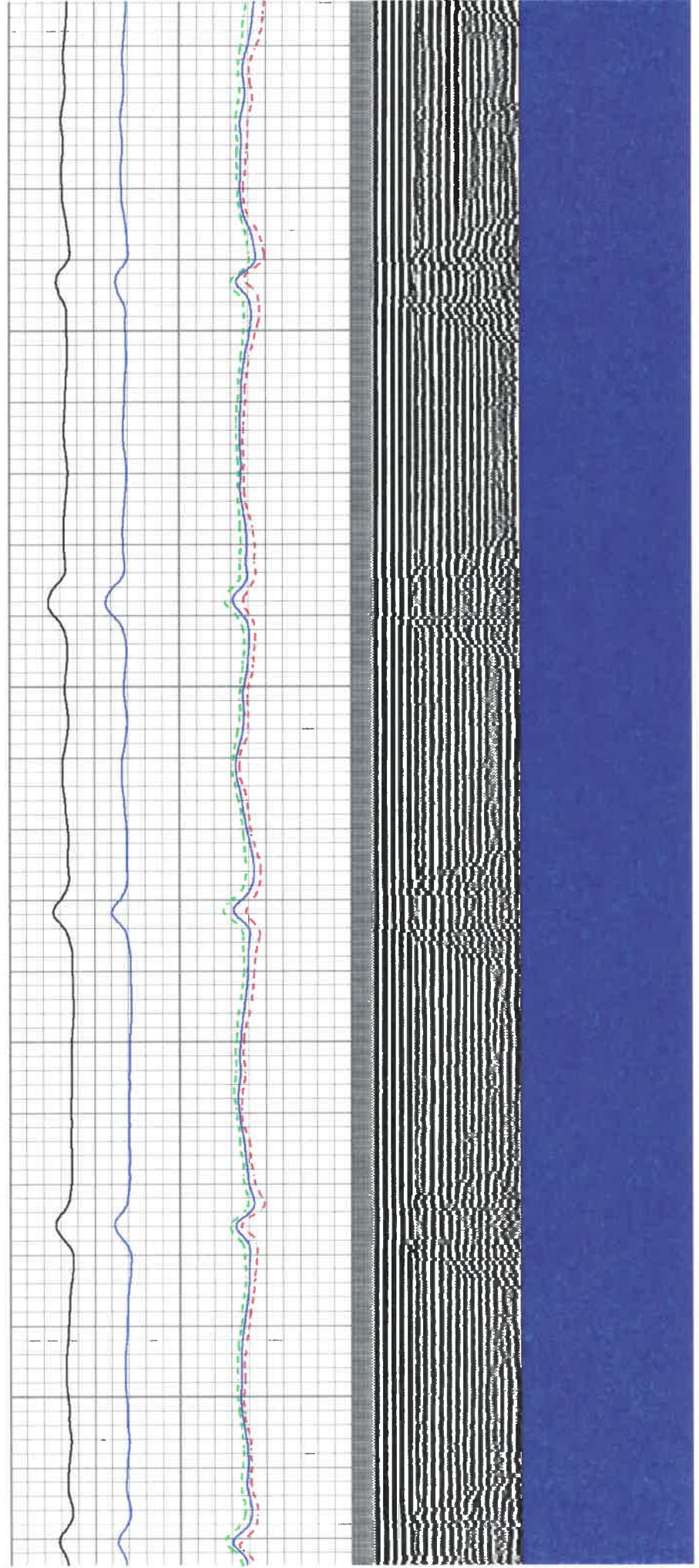


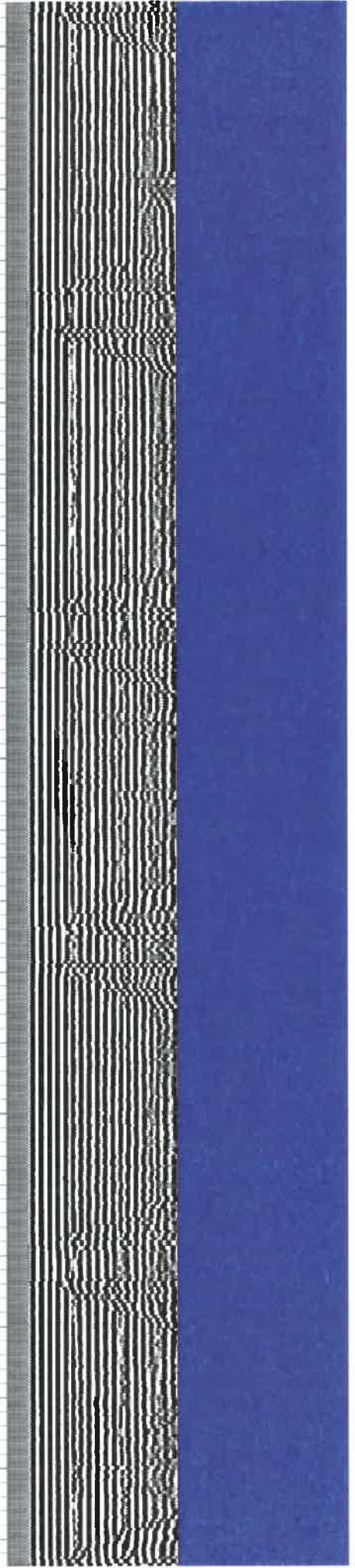
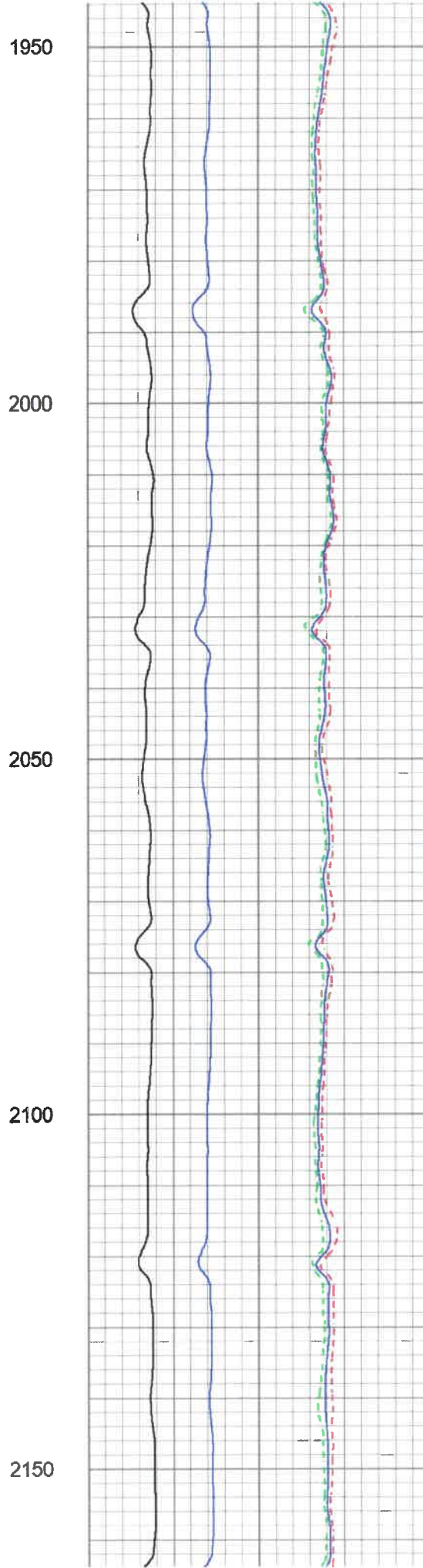
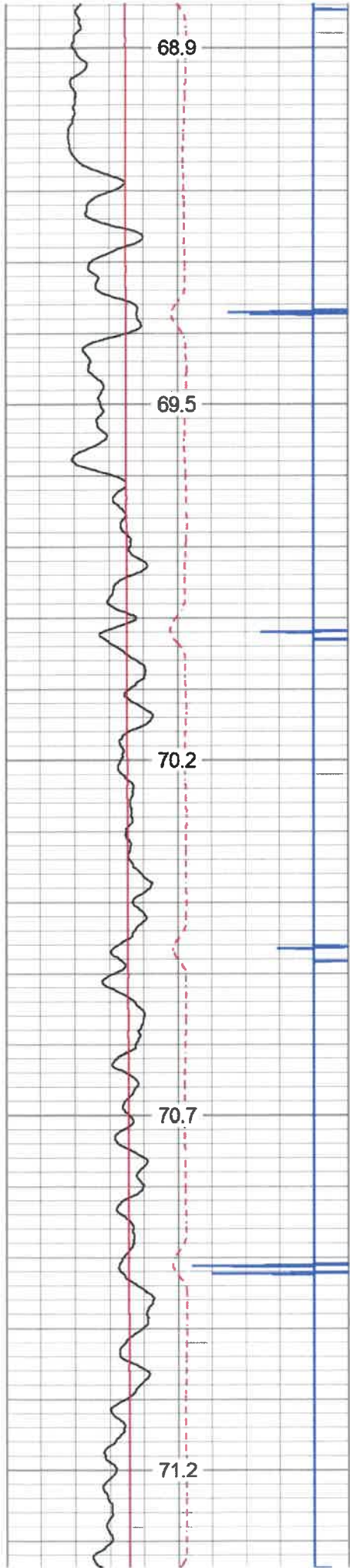
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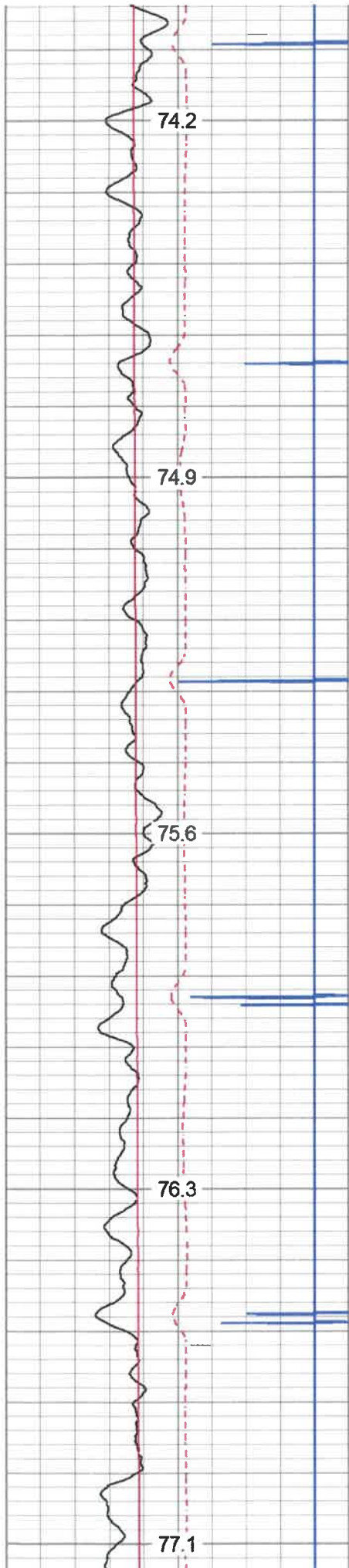
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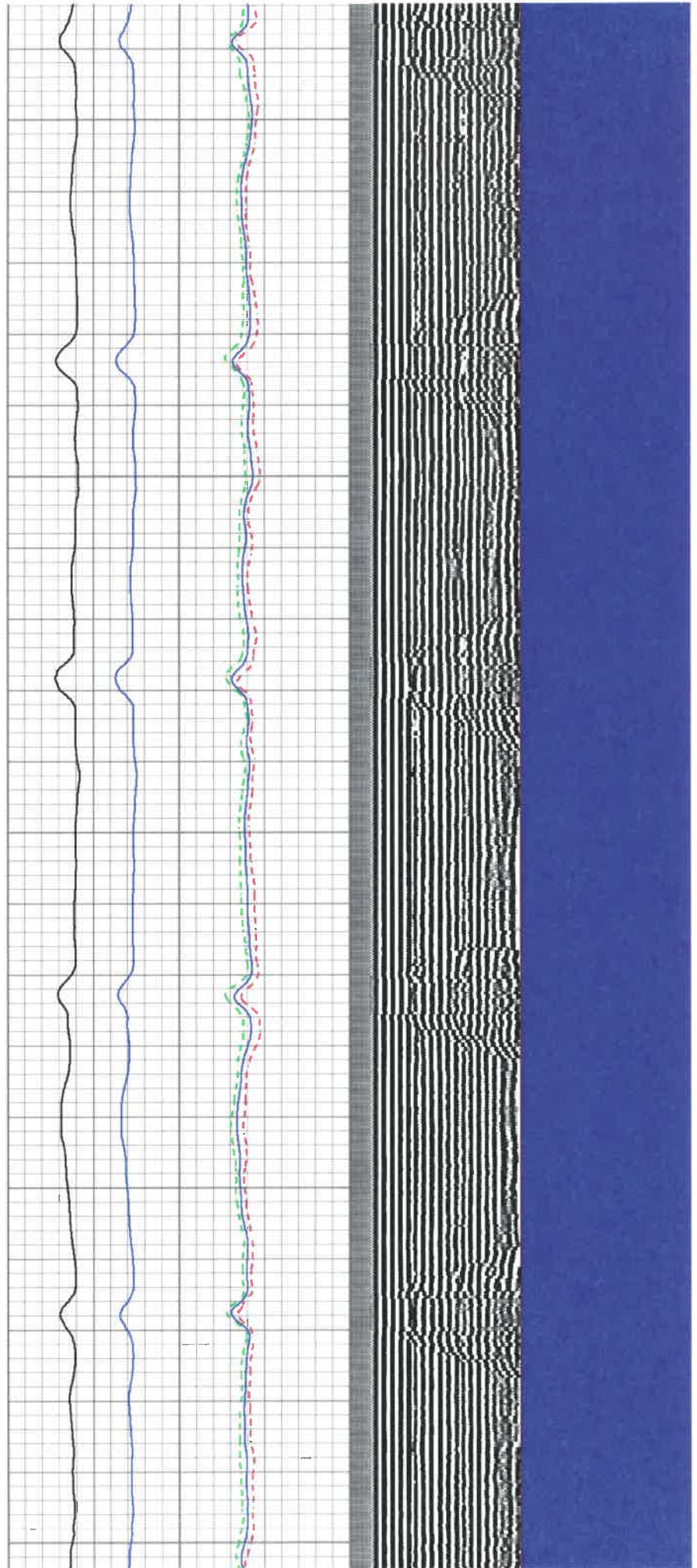
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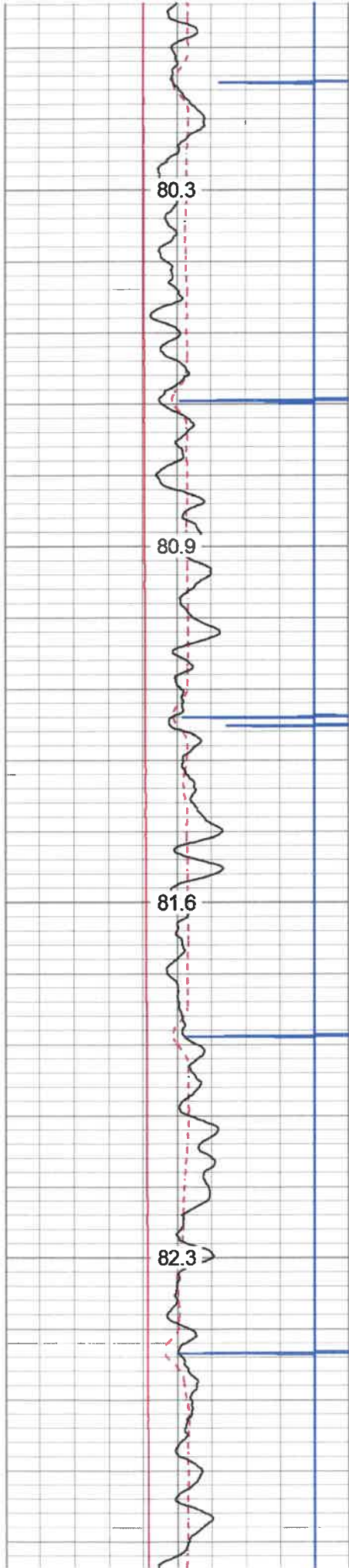
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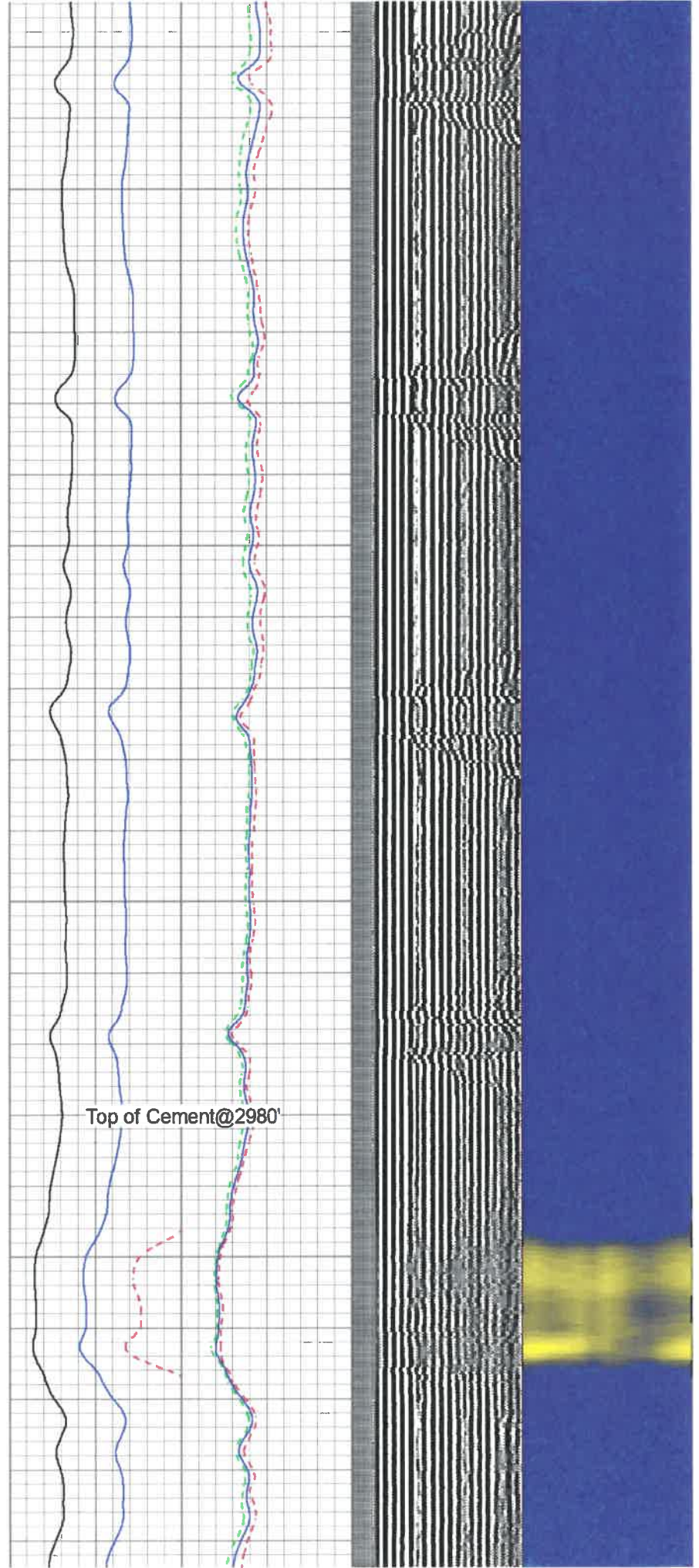


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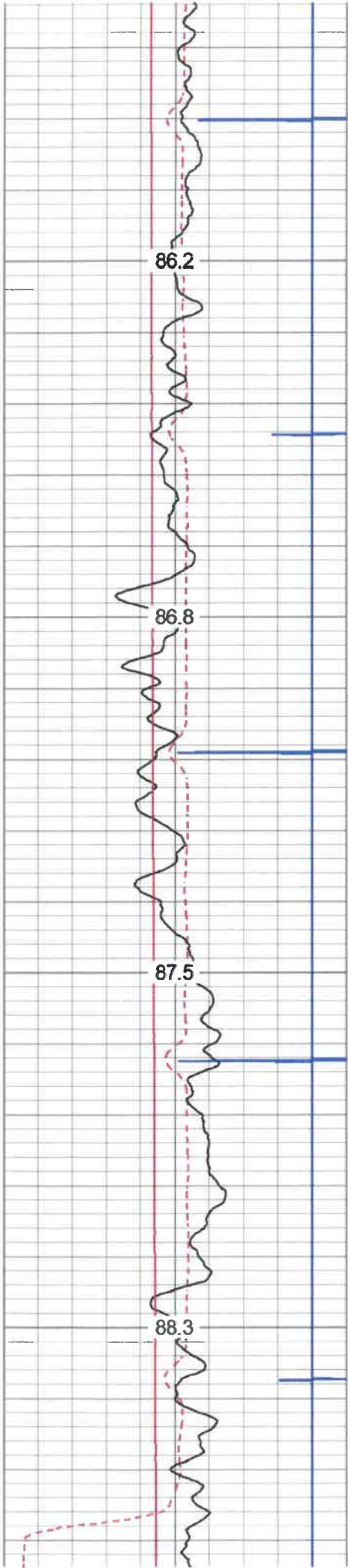
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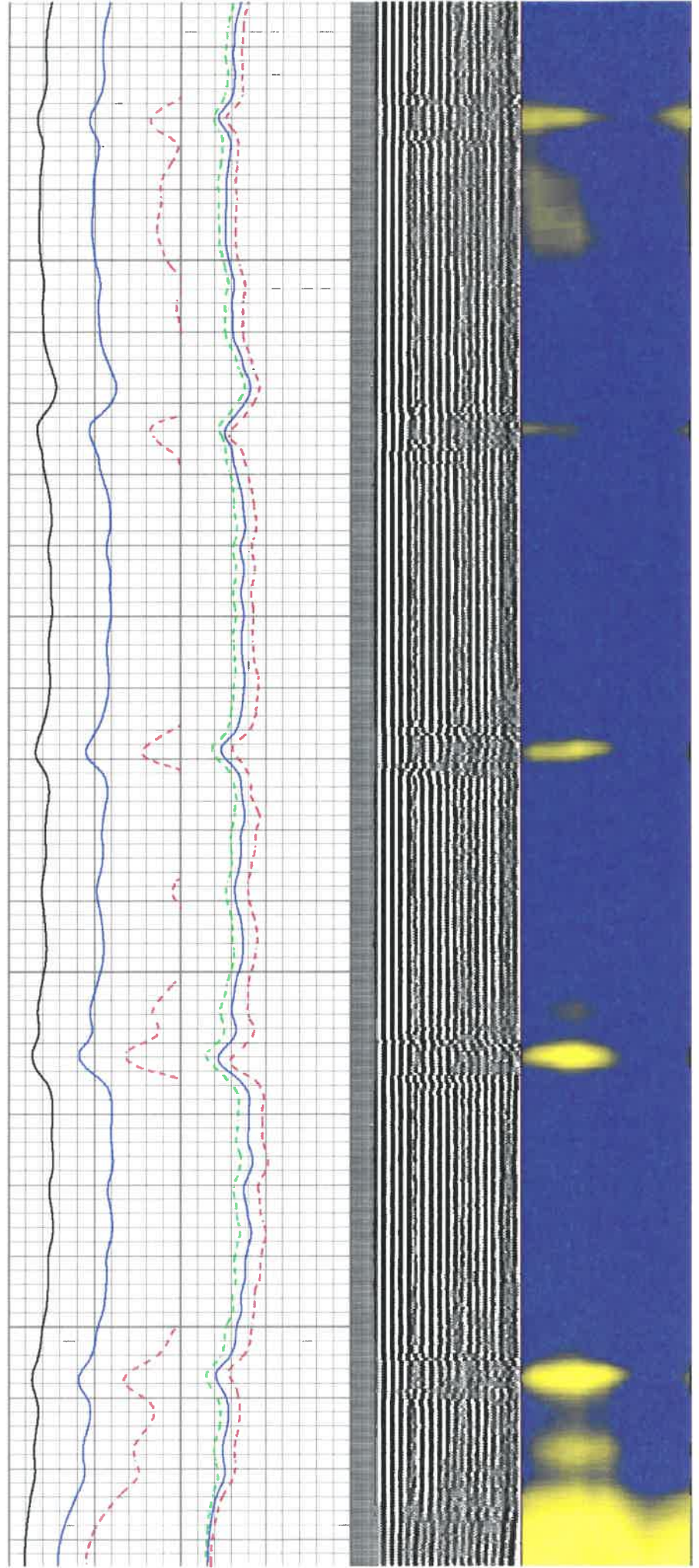


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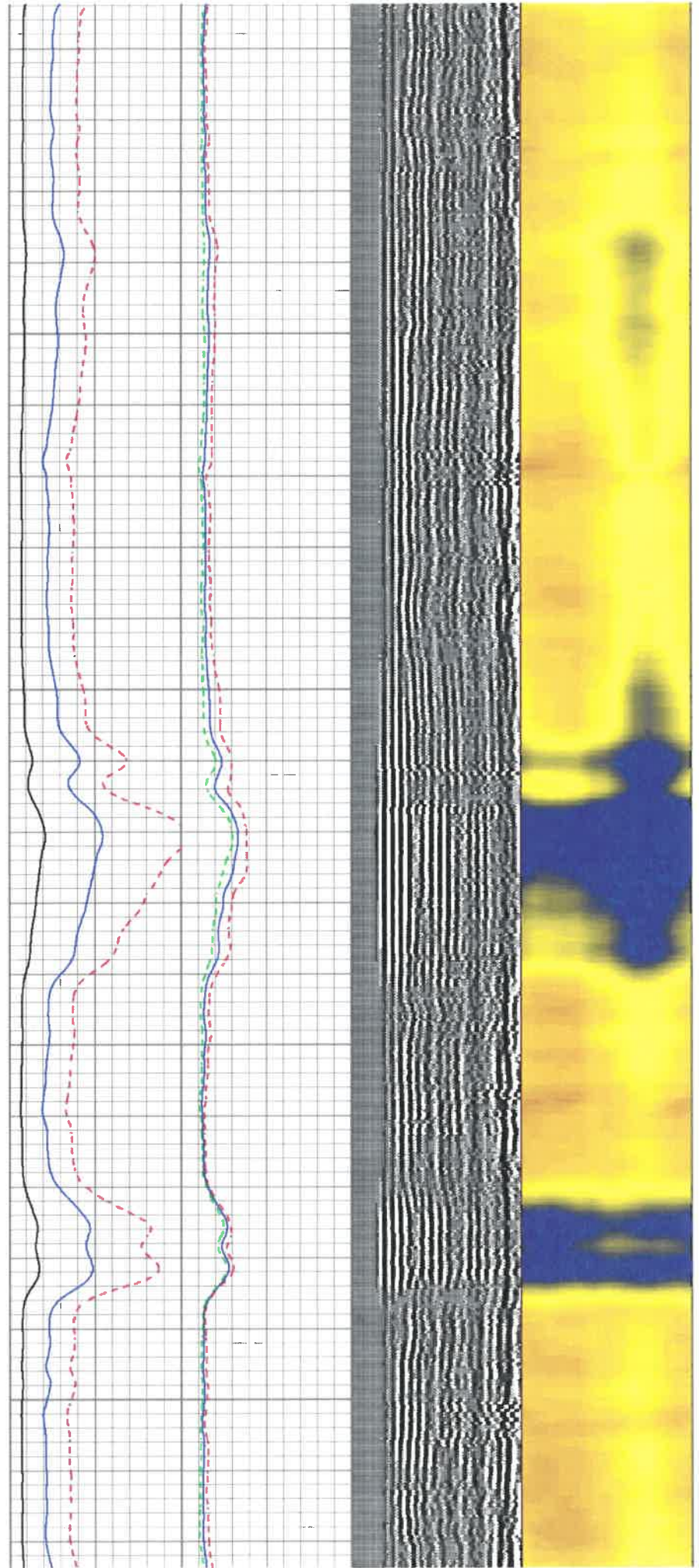


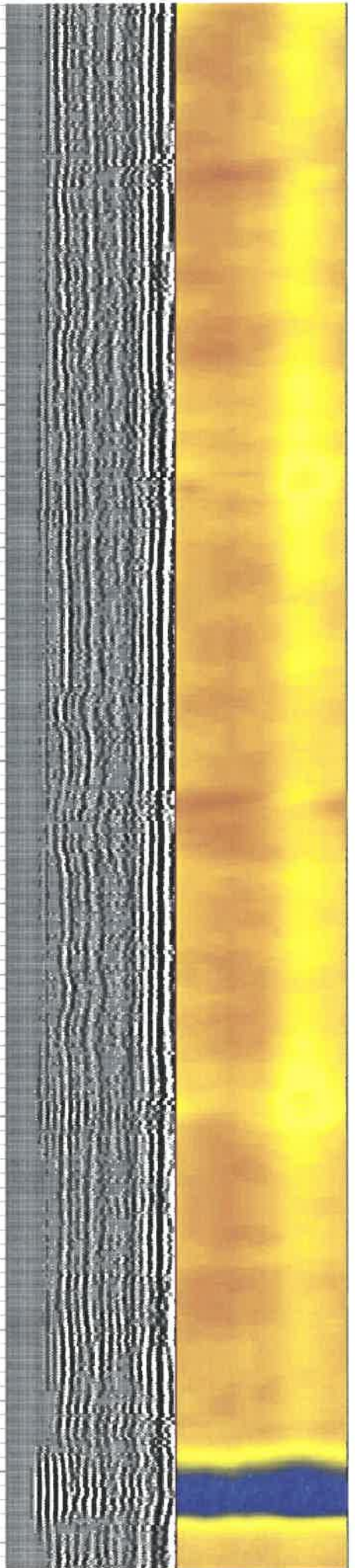
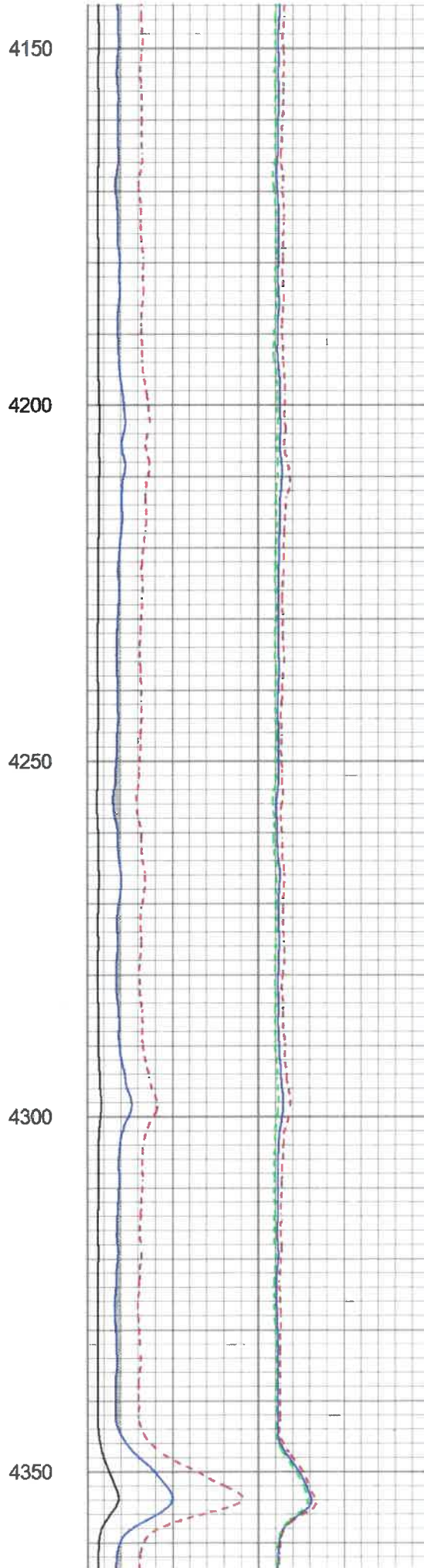
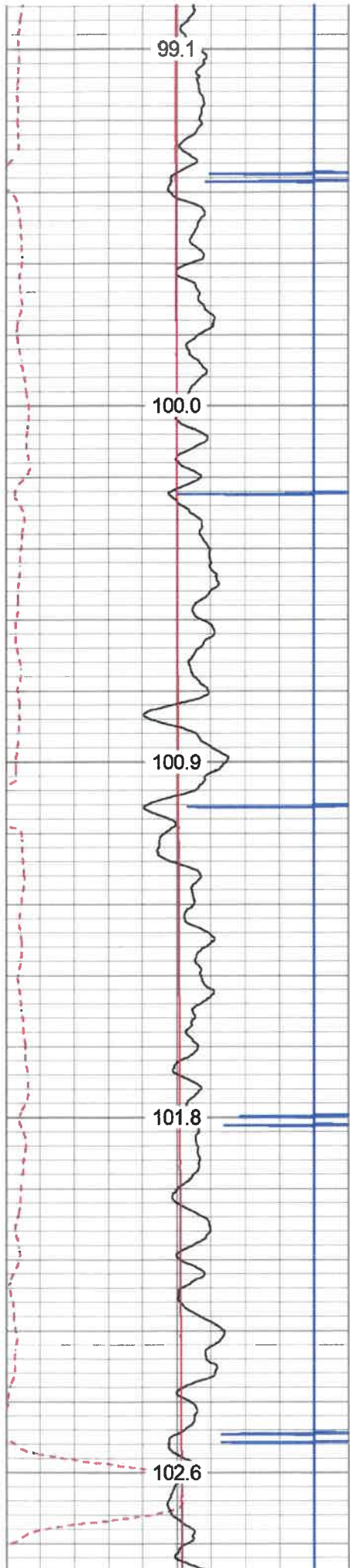
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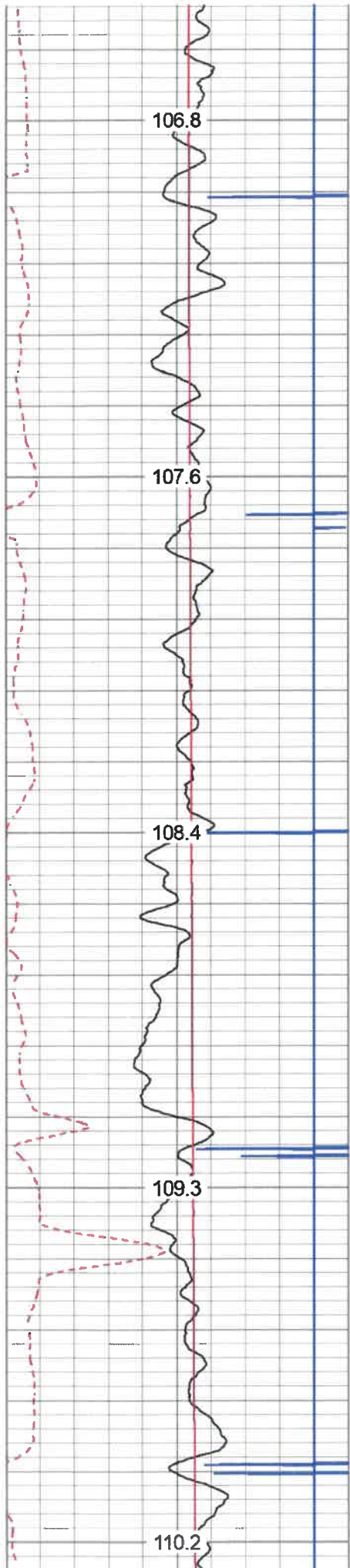
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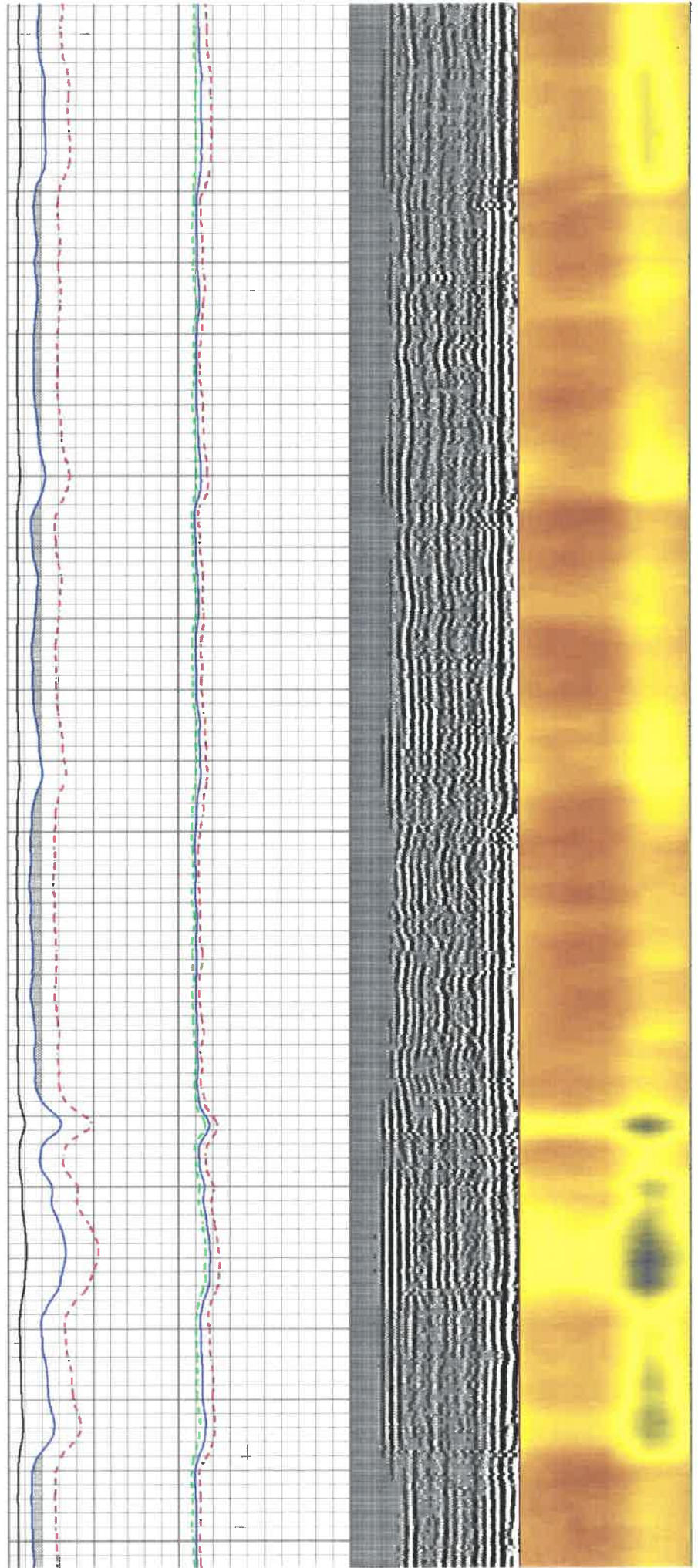
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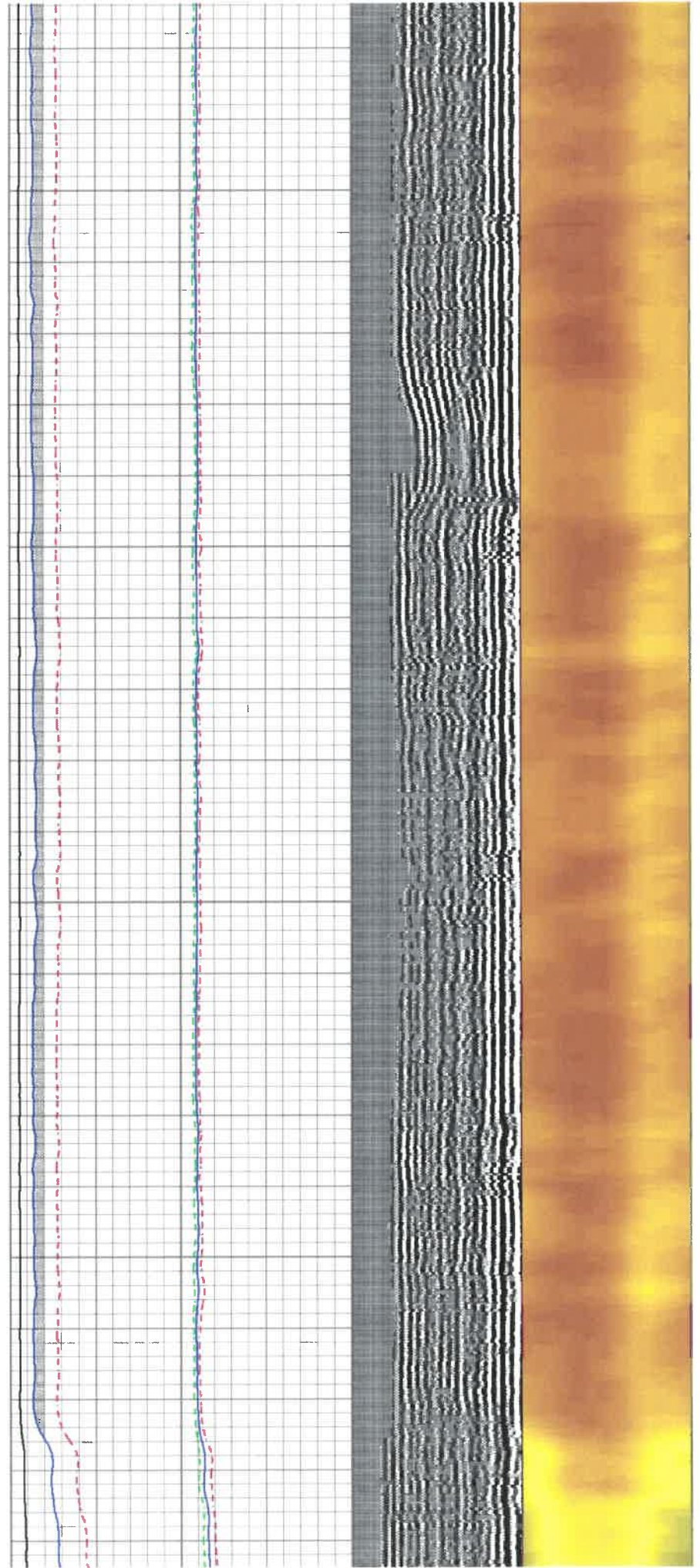


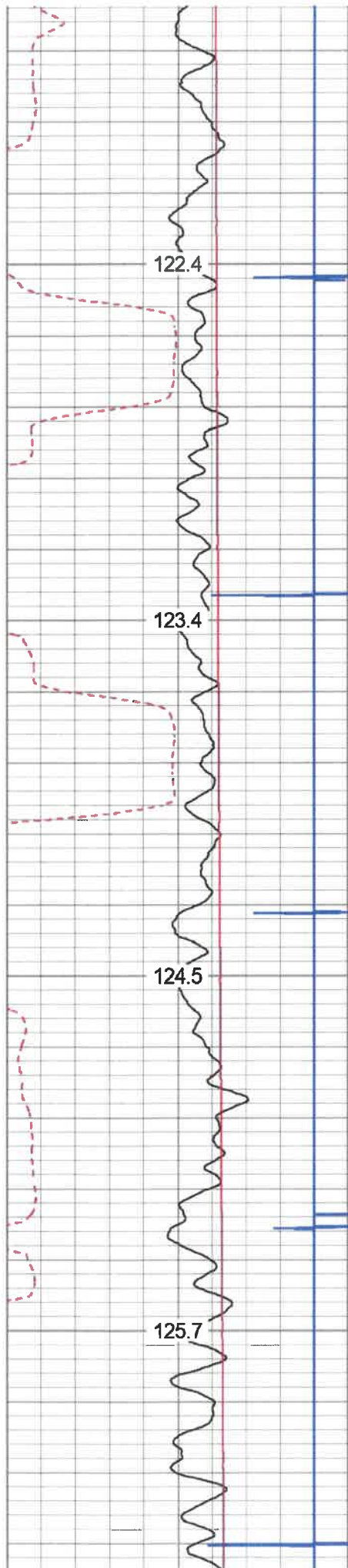
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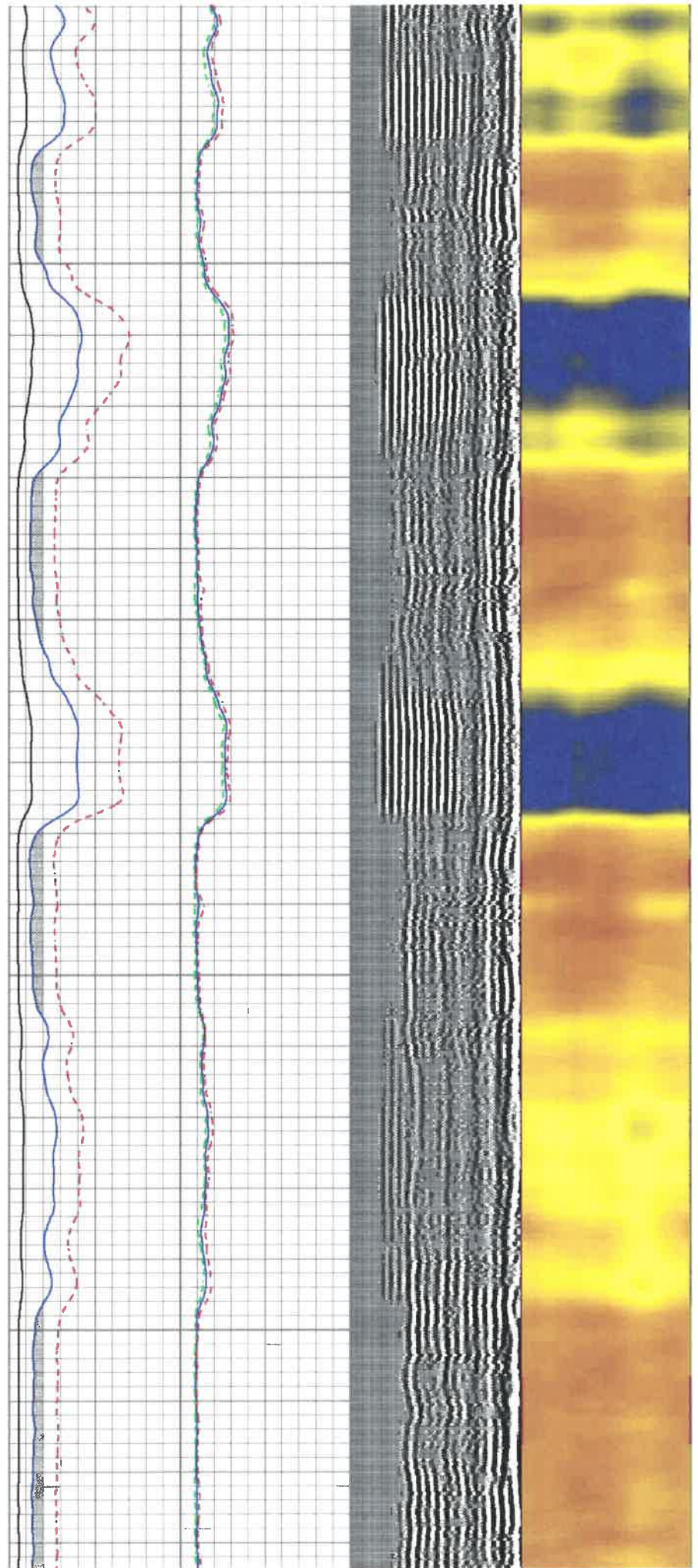


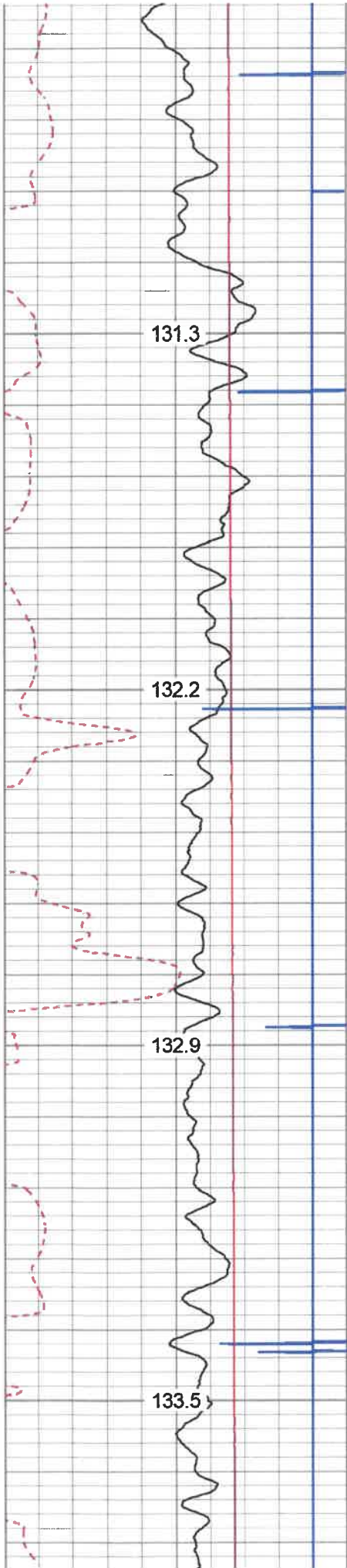
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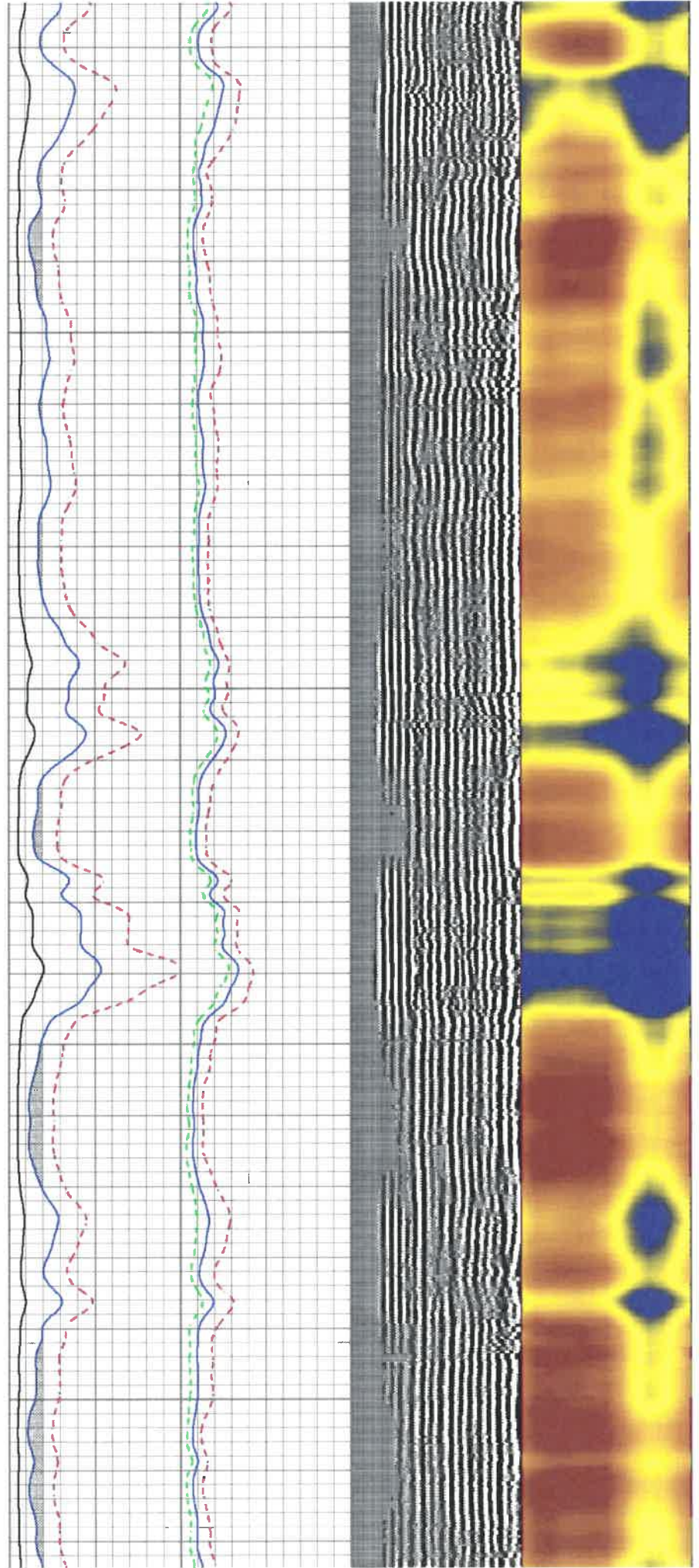


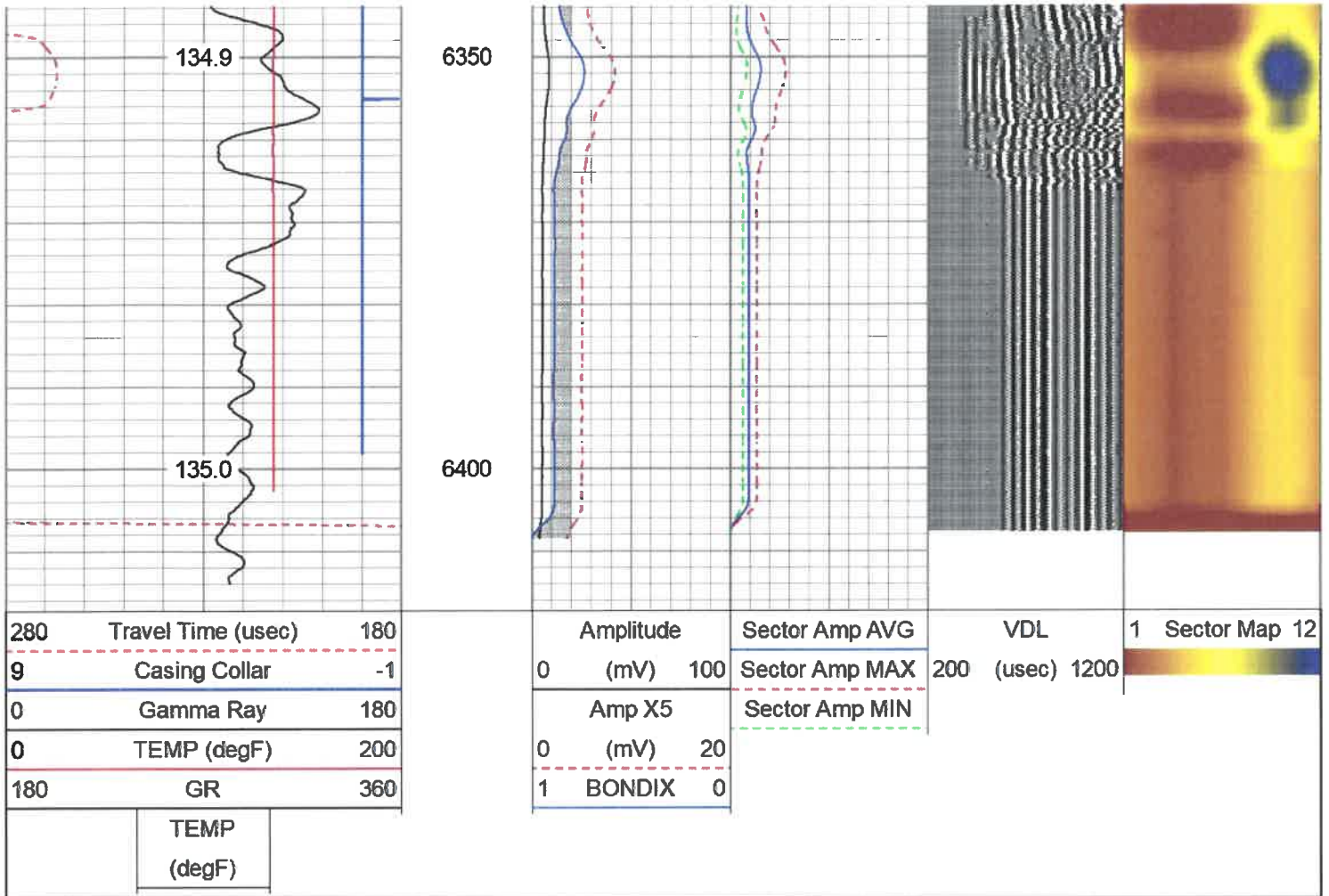
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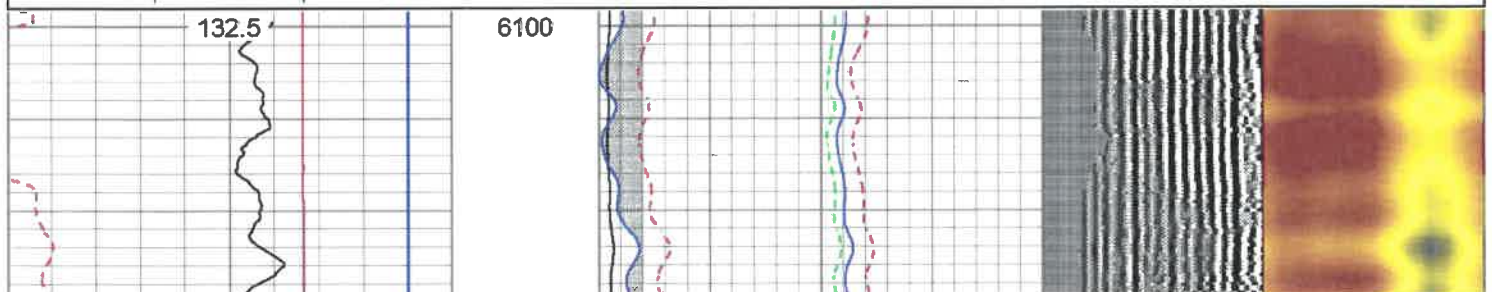
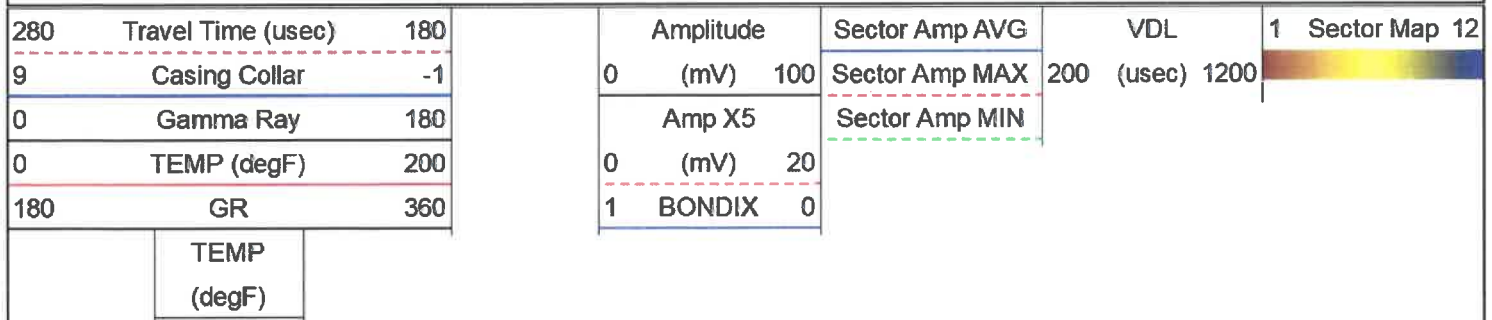
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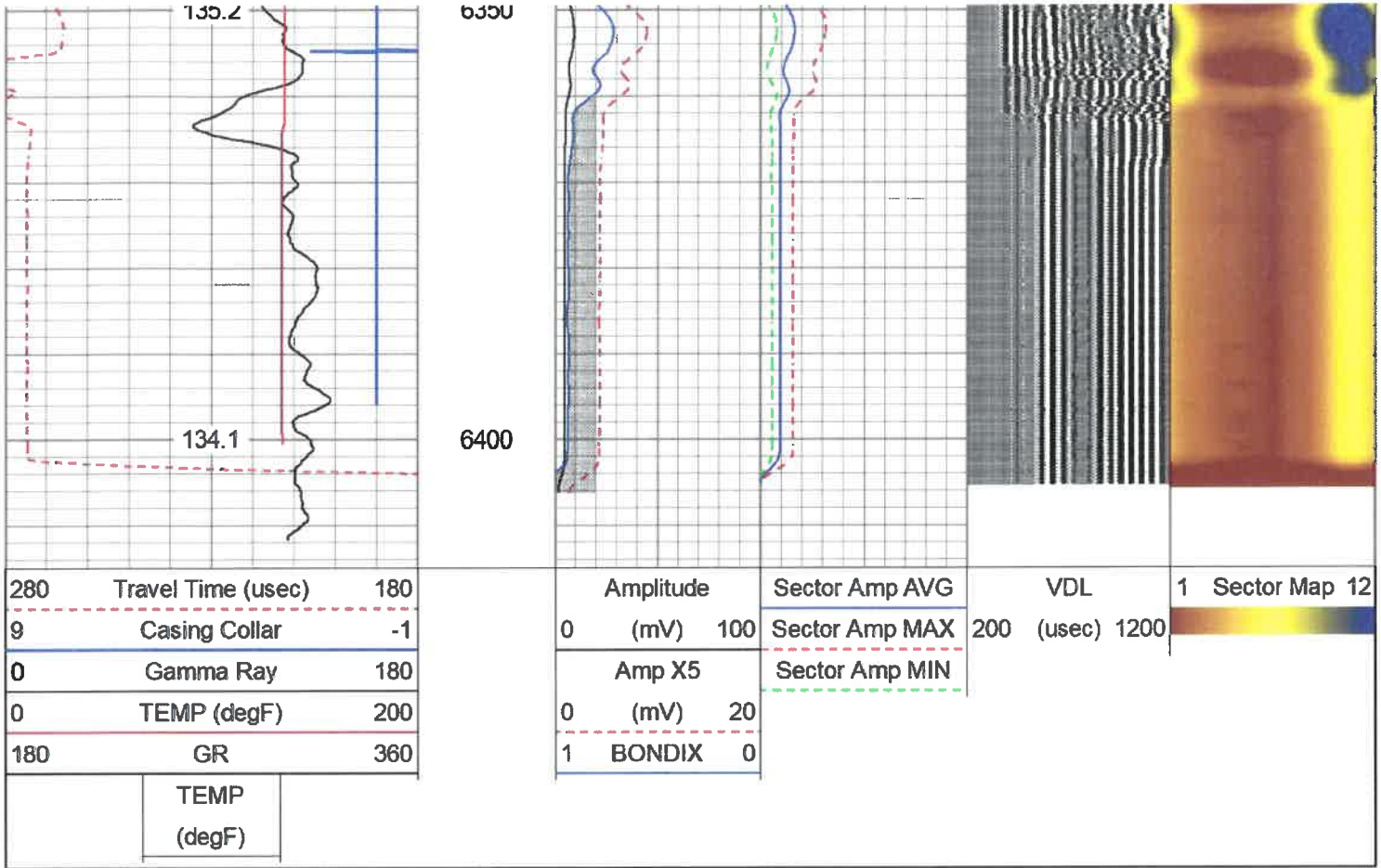


### Repeat Pass

Database File antero\_weese\_1h.db  
 Dataset Pathname pass1  
 Presentation Format antero  
 Dataset Creation Thu Nov 14 10:38:15 2019  
 Charted by Depth in Feet scaled 1:240







### Log Variables

Database: C:\ProgramData\Warrior\Data\antero\_weese\_1h.db  
Dataset: field/well/run1/pass2/\_vars\_

**Top - Bottom**

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	8.25 in	100 degF	5.5 in	0 in	23 lb/ft	71.9 mV	3.5 mV
MINATTN	PERFS	PPT	SRFTEMP	TDEPTH			
0.8 db/ft	No	219 uSec	0 degF	0 ft			

**Variable Description**

BHTEMP_Src : BHTEMP Input Source Selector	MINAMPL : Minimum Amplitude
BOREID : Borehole I.D.	MINATTN : Minimum Attenuation
BOTTEMP : Bottom Hole Temperature	PERFS : Perforation Flag
CASEOD : Casing O.D.	PPT : Predicted Pipe Time
CASETHCK : Casing Thickness	SRFTEMP : Surface Temperature
CASEWGHT : Casing Weight	TDEPTH : Total Depth
MAXAMPL : Maximum Amplitude	

### Calibration Report

Database File: antero\_weese\_1h.db  
Dataset Pathname: pass2  
Dataset Creation: Thu Nov 14 10:53:55 2019

### Gamma Ray Calibration Report

Serial Number:	IPSNO-03
Tool Model:	Tek-Co 2 3/4
Performed:	Tue Nov 12 16:11:18 2019

TEMP	12.77					
WVFS12	11.48					
WVFS11	11.48					
WVFS10	11.48		SCBL-Tek12 (IOL40-05) Tekco 400 Deg F 12 Sector RIB with Temp	9.13	3.25	135.00
WVFS9	11.48					
WVFS8	11.48					
WVFS7	11.48					
WVFS6	11.48					
WVFS5	11.48					
WVFS4	11.48					
WVFS3	11.48					
WVFS2	11.48					
WVFS1	11.48					
WVFCAL	10.73					
WVF3FT	10.73					
WVF5FT	9.73					
WVFSYNC	6.40					
WVFTEMP	6.40					
			Tek-2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
			GR-Tek-Co 2 3/4 (IPSNO-03) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00
GR	1.04					

Dataset: antero\_weese\_1h.db: field/well/run1/pass2  
Total length: 20.07 ft  
Total weight: 250.00 lb  
O.D.: 3.25 in



Company Antero Resources Corporation  
Well Weese Unit 1H  
Field Marcellus  
County Tyler  
State WV  
Country US