



**SUPERIOR**  
Black Lick, Pa.  
Mercer, Pa.  
Wooster, Ohio  
Cleveland, Ok.

## GAMMA RAY CCL CEMENT BOND VDL

Company PETRO-CANADA RESOURCES (USA) INC.  
Well KALEO 1-31  
Field GROVER  
County WELD  
State COLORADO

Company PETRO-CANADA RESOURCES (USA) INC.  
Well KALEO 1-31  
Field GROVER  
County WELD State COLORADO

Location: API #: 05-123-28190-00  
610' FNL & 729' FEL  
NENE  
SEC 31 TWP 11N RGE 61W  
Permanent Datum GL Elevation 5100  
Log Measured From KB  
Drilling Measured From KB  
Other Services  
K.B. 5112  
D.F. 5111  
G.L. 5100

Date

APRIL 6, 2009

Run Number	ONE		
Depth Driller	7788		
Depth Logger	7748		
Bottom Logged Interval	7747		
Top Log Interval	SURFACE		
Open Hole Size	7-7/8"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	248 DEG. F		
Estimated Cement Top	170		
Time Well Ready	PORTABLE MAST		
Time Logger on Bottom	2-3/4" TOOL #1		
Equipment Number	0703		
Location	45		
Recorded By	NOLAN		
Witnessed By	ERIC ZWAAGSTRA		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String				Size	Wgt/Ft	Top	Bottom
Prot. String							
Production String				5-1/2"			
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

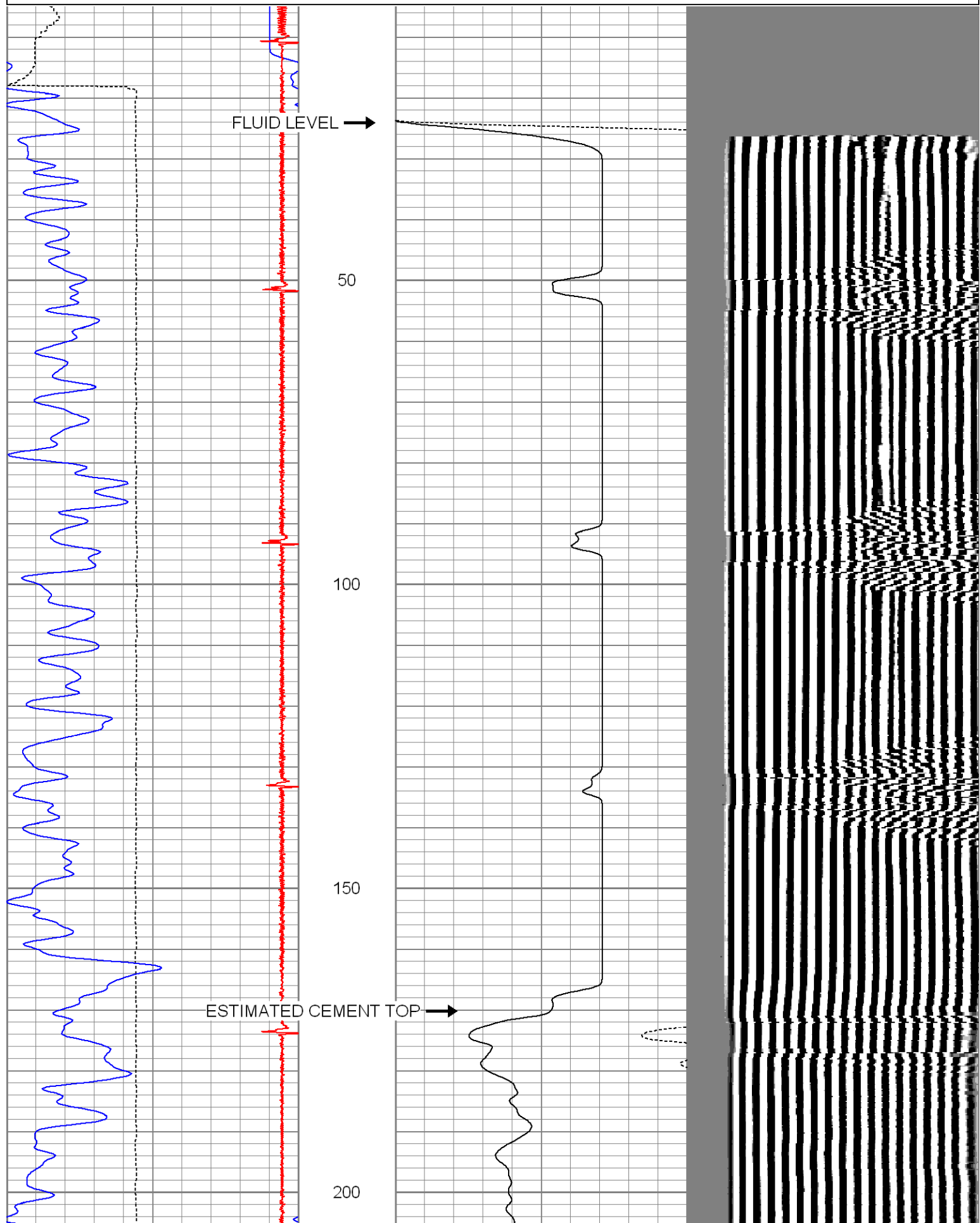
THANKS FOR CHOOSING SUPERIOR WELL SERVICES  
WCR 122 & WCR 87, W 100', N .5, W INTO

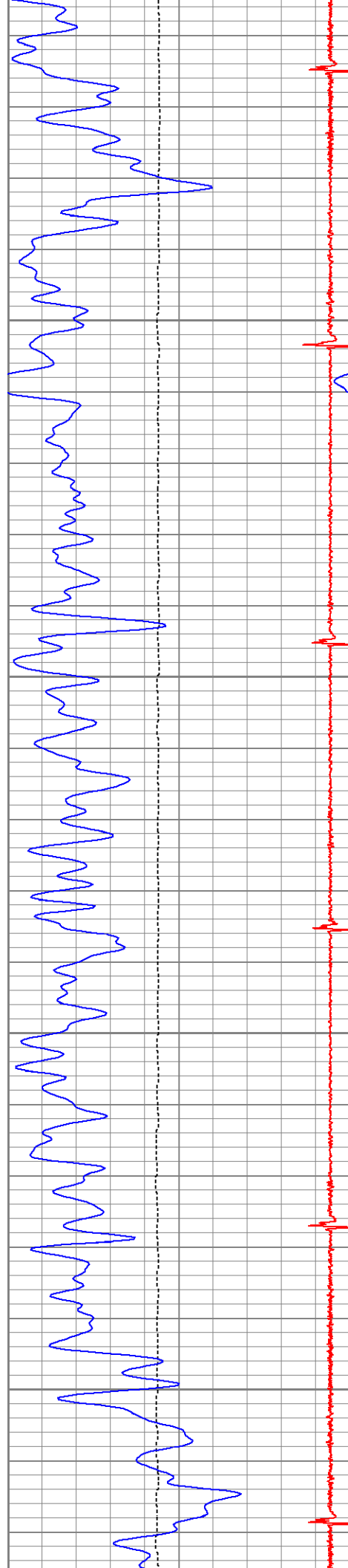
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Dataset Pathname: pass6  
Presentation Format: nuexbond  
Dataset Creation: Tue Apr 07 12:44:56 2009 by Log Open-Cased 071220  
Charted by: Depth in Feet scaled 1:240

0	Line Speed (ft/min)	-300
30	Gamma Ray (GAPI)	130
9	CCL	-0.5

0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100

200 VDL 1200



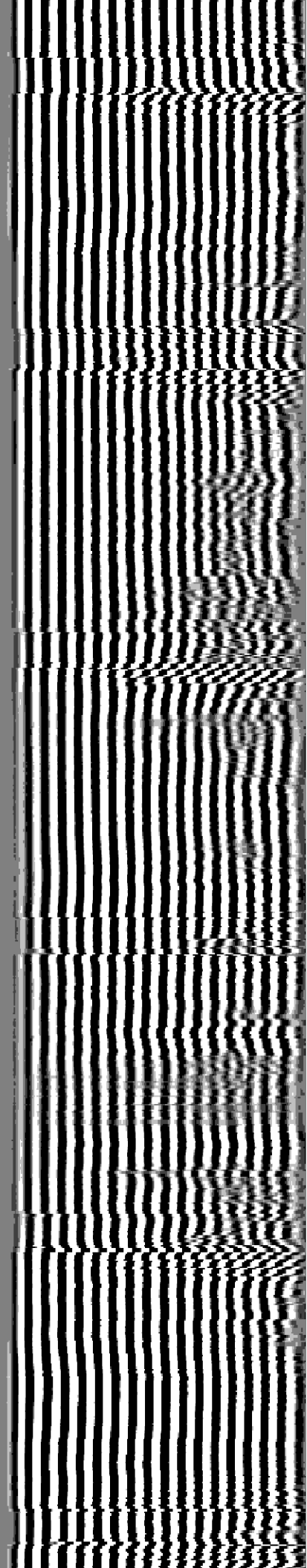
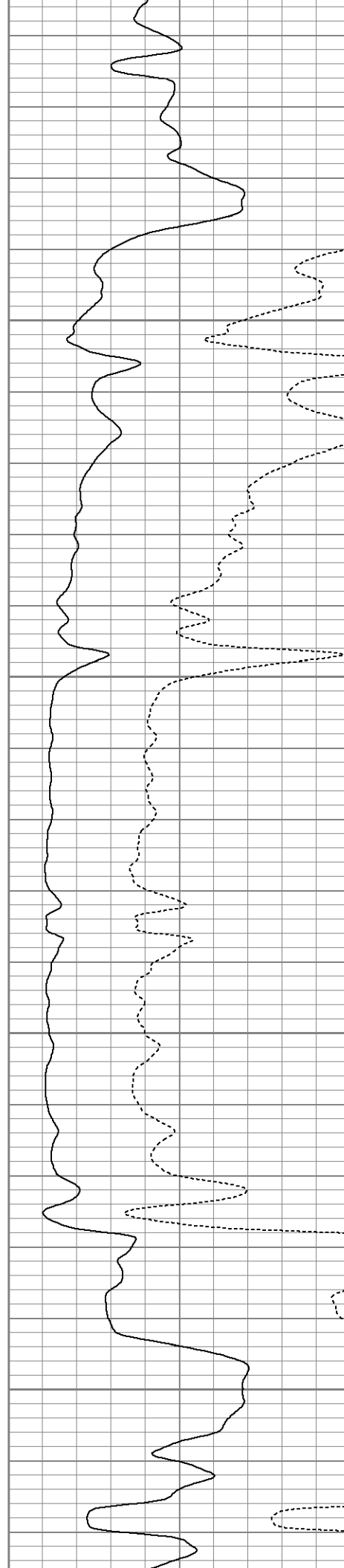


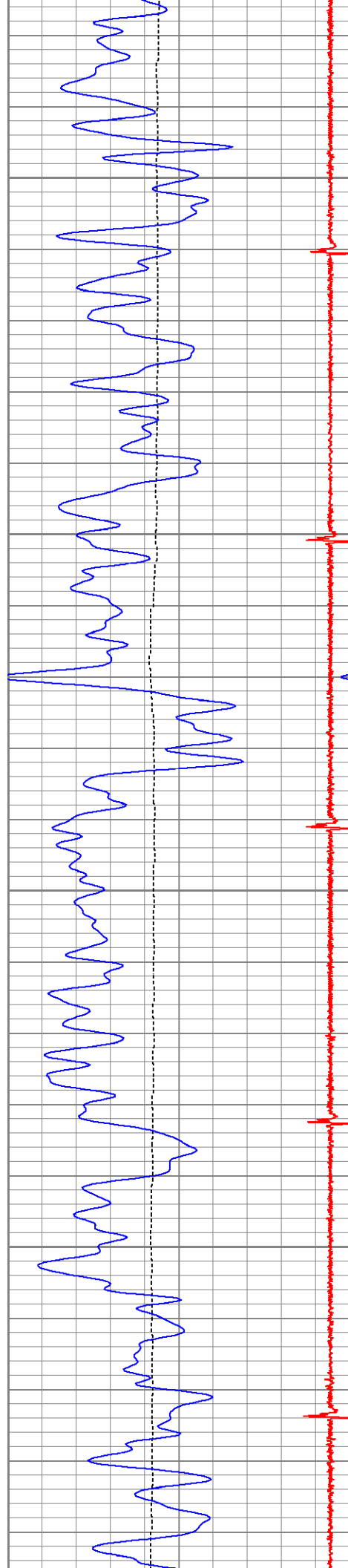
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300

350

400



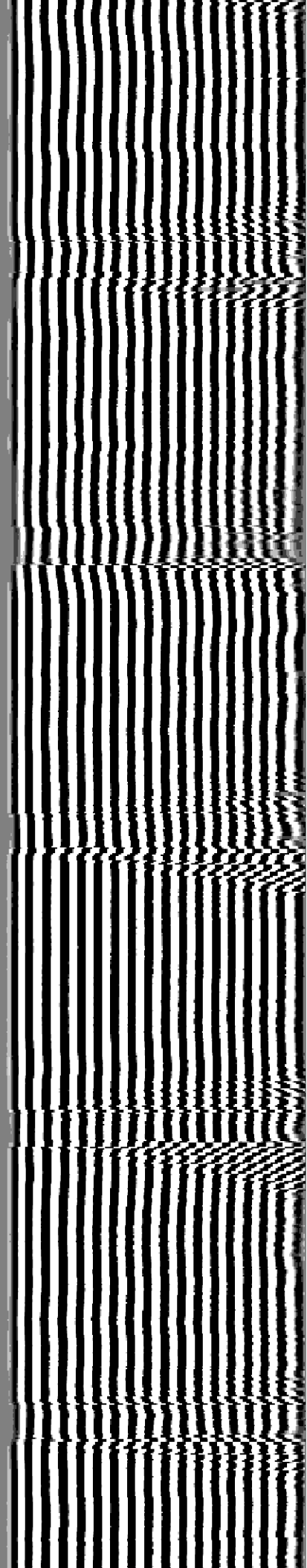
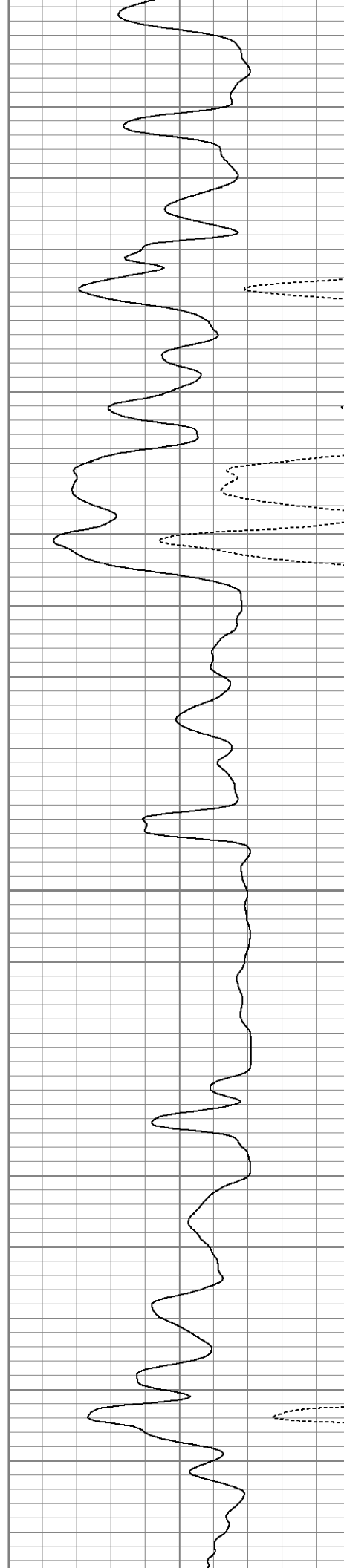


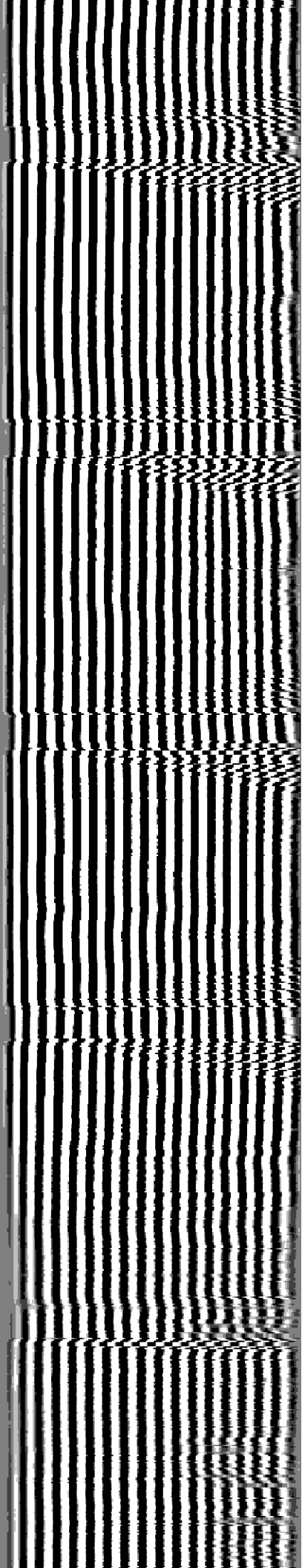
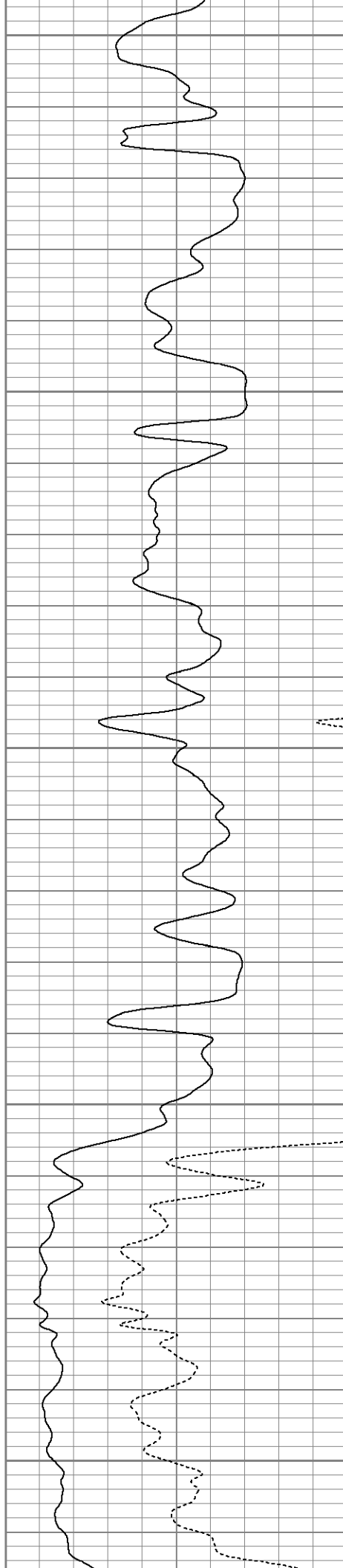
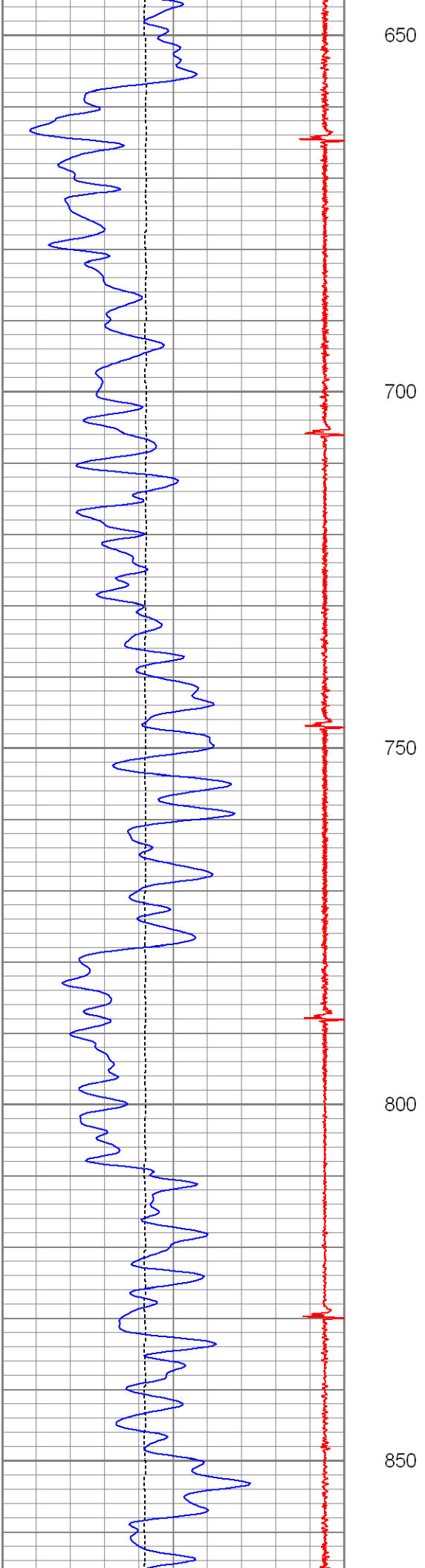
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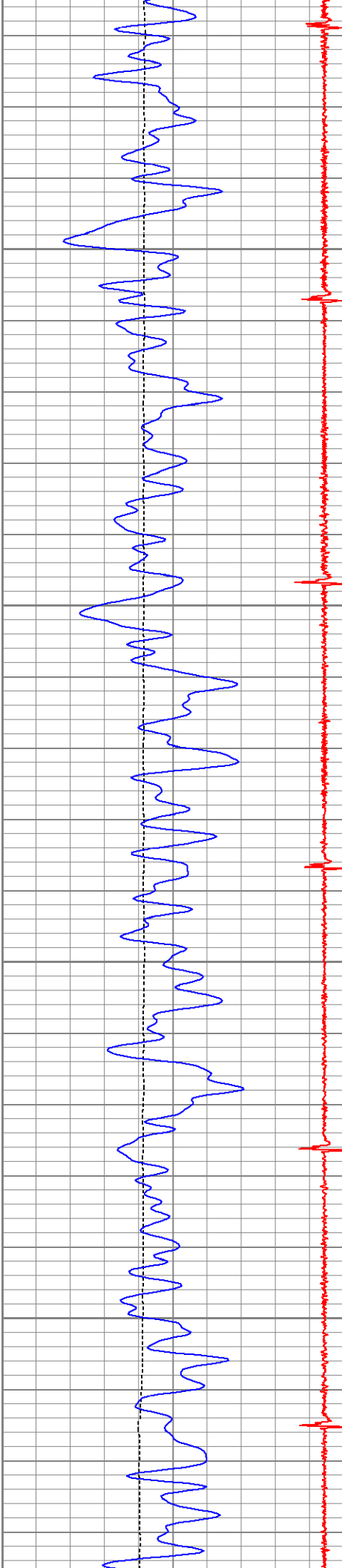
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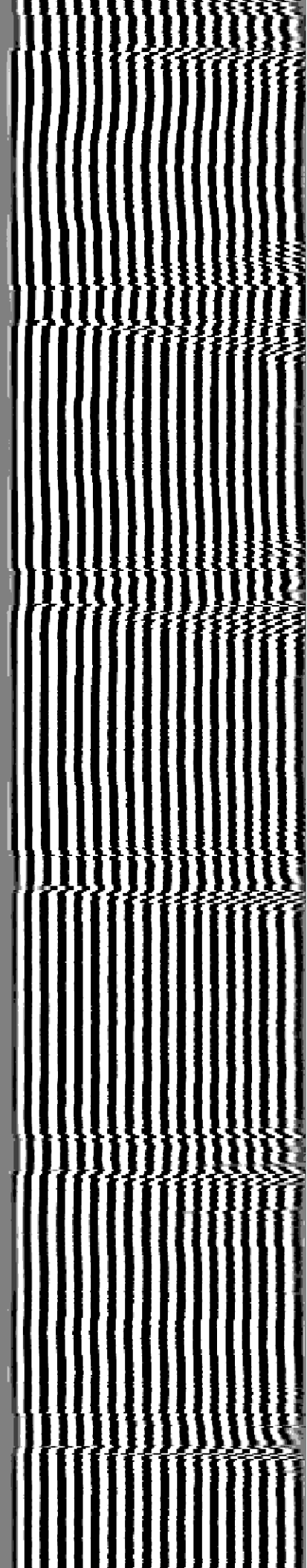
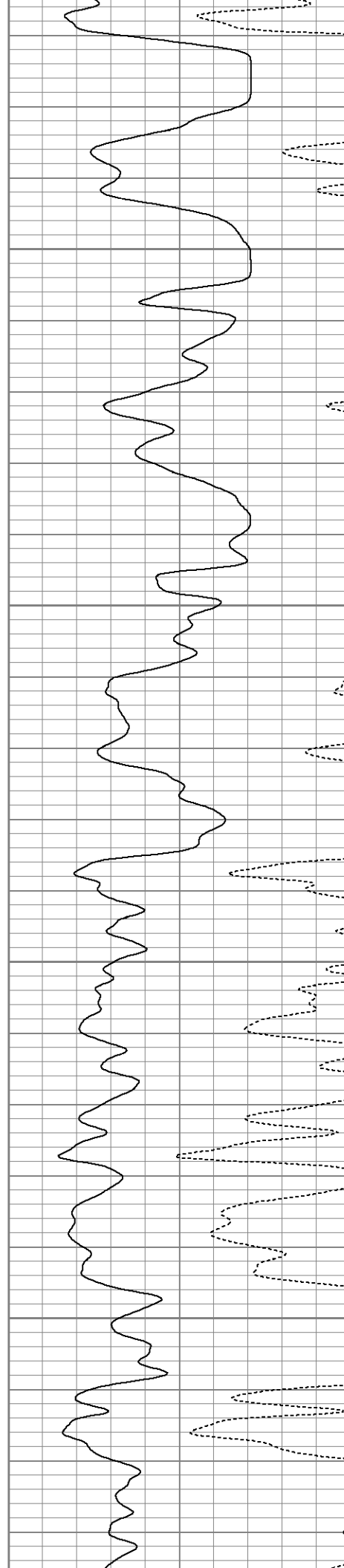


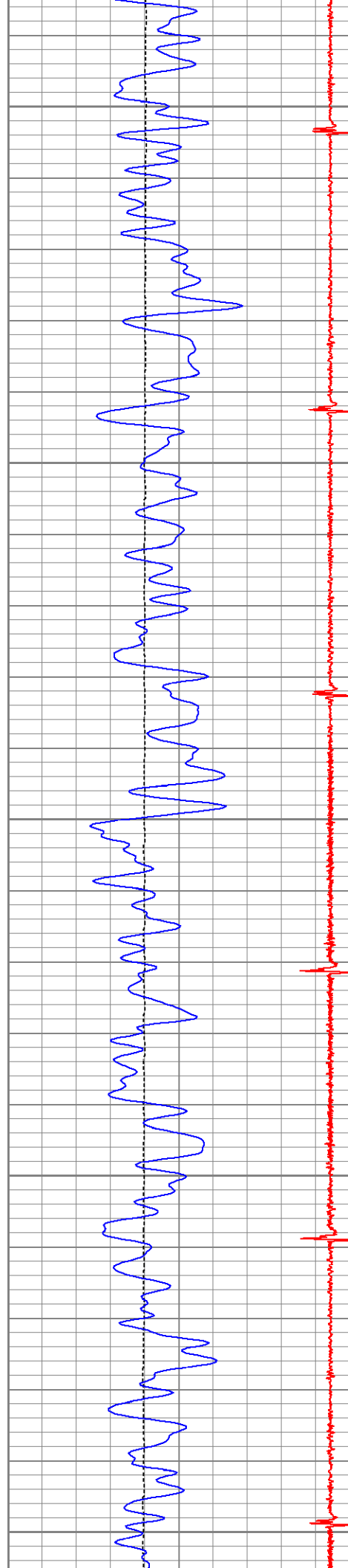
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950

1000

1050





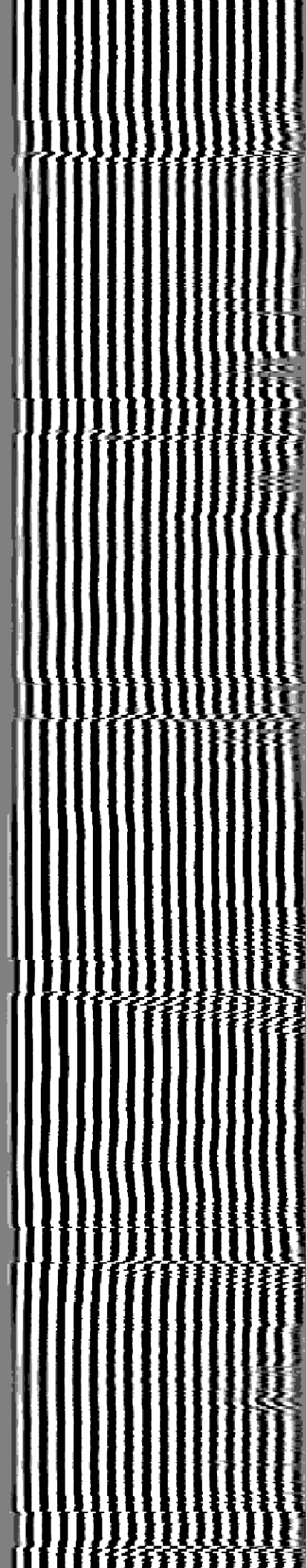
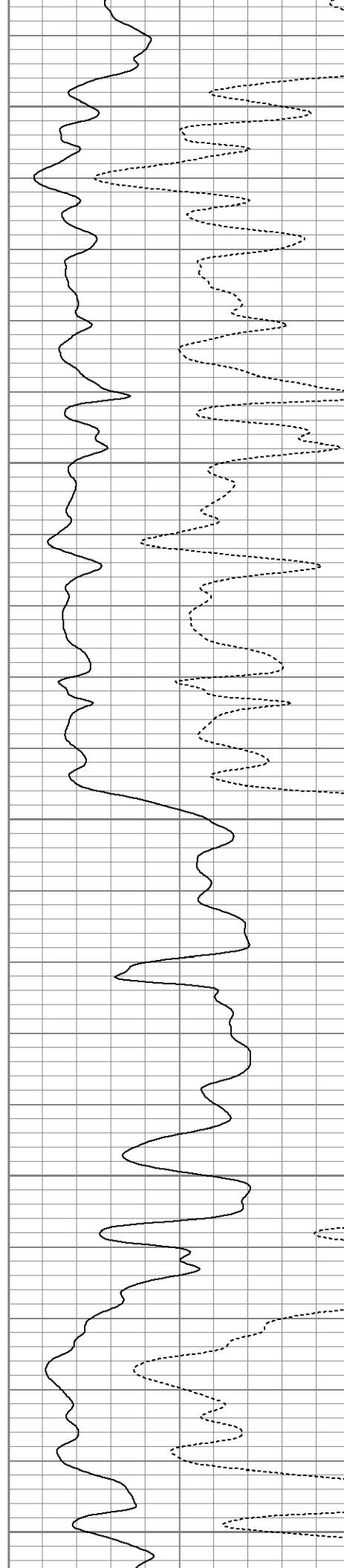
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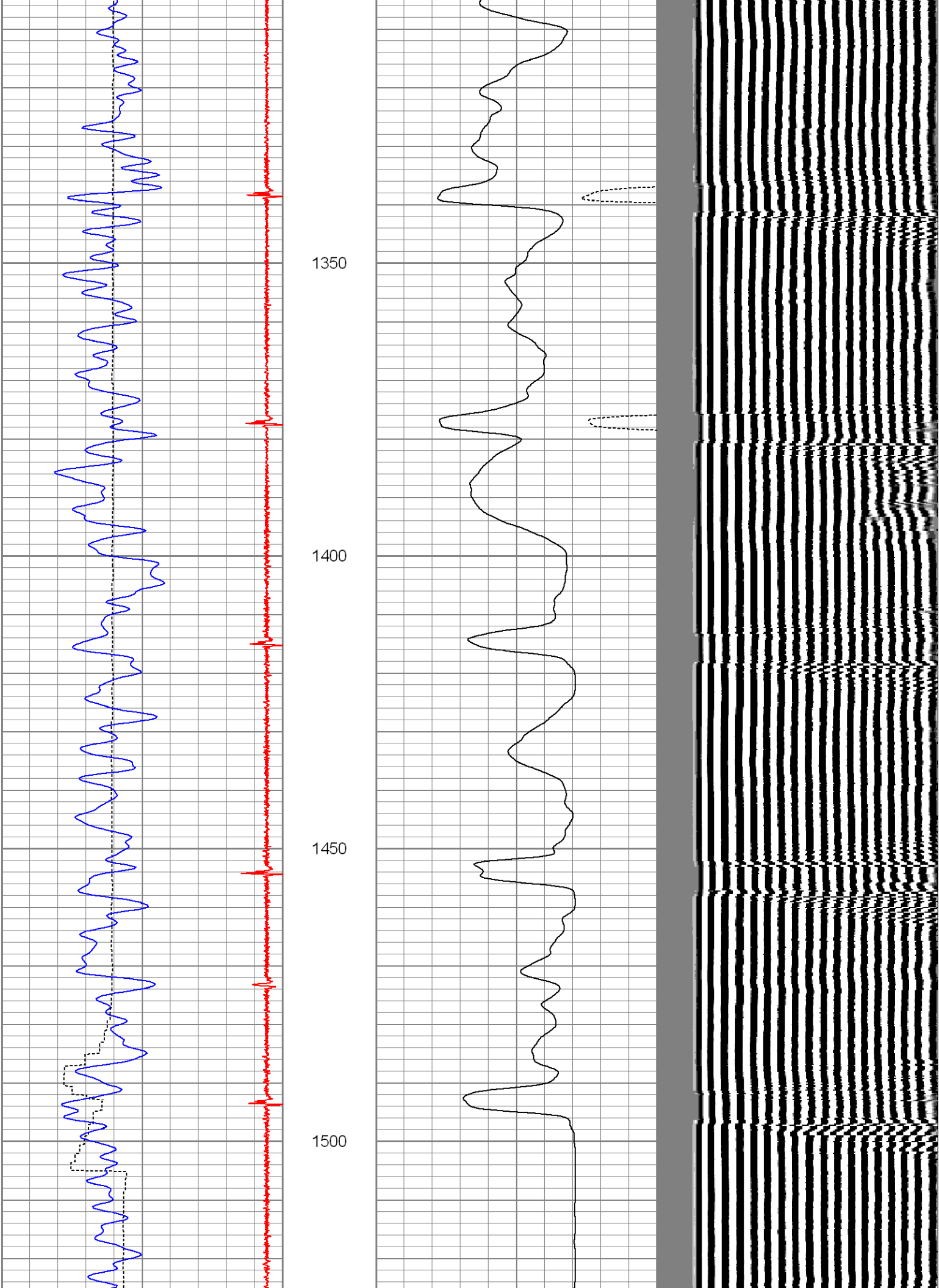
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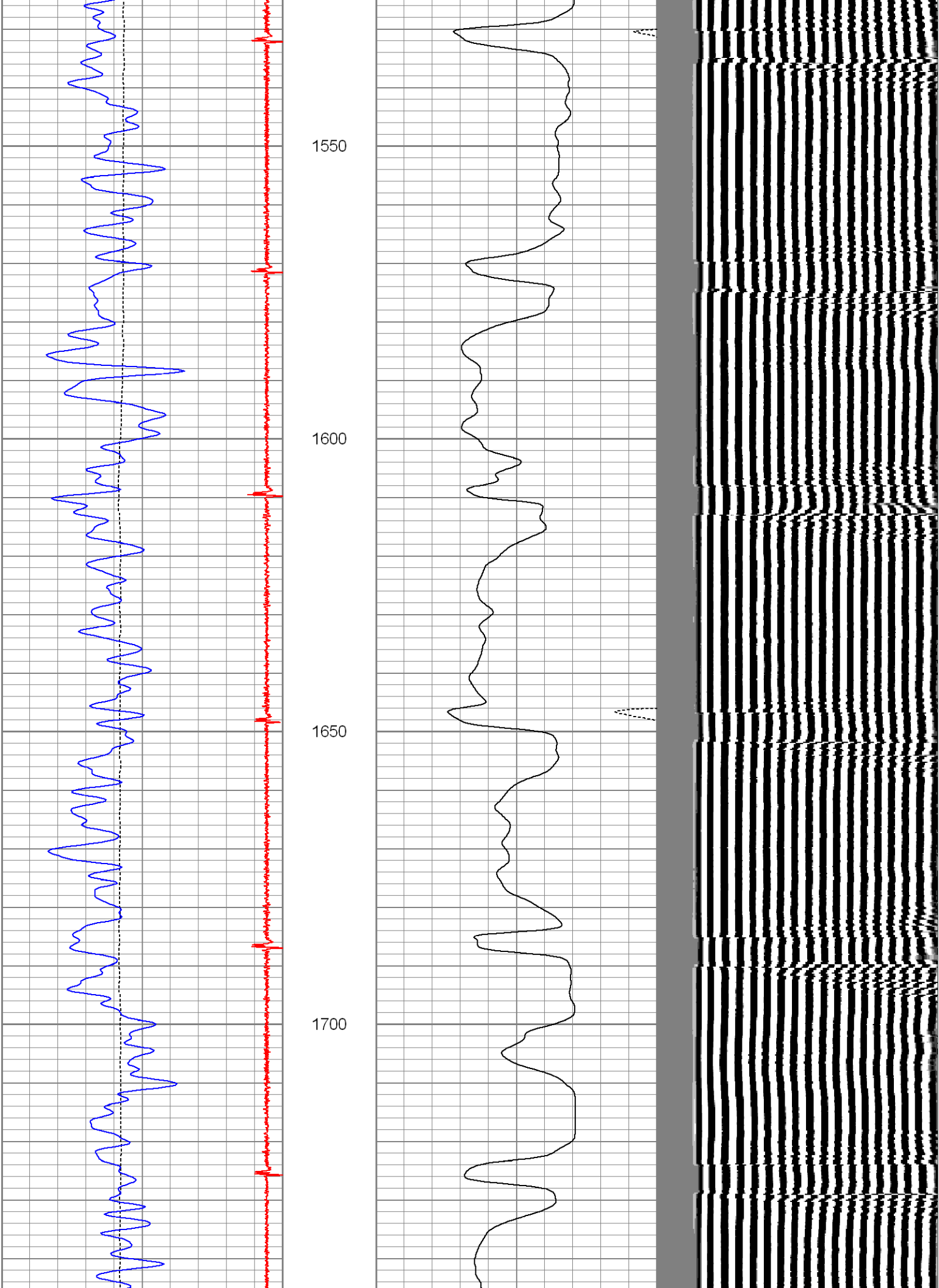
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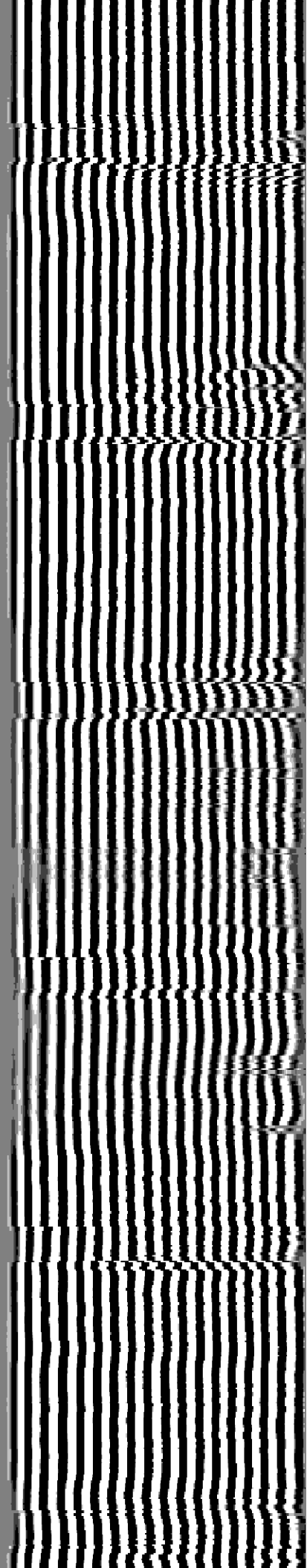
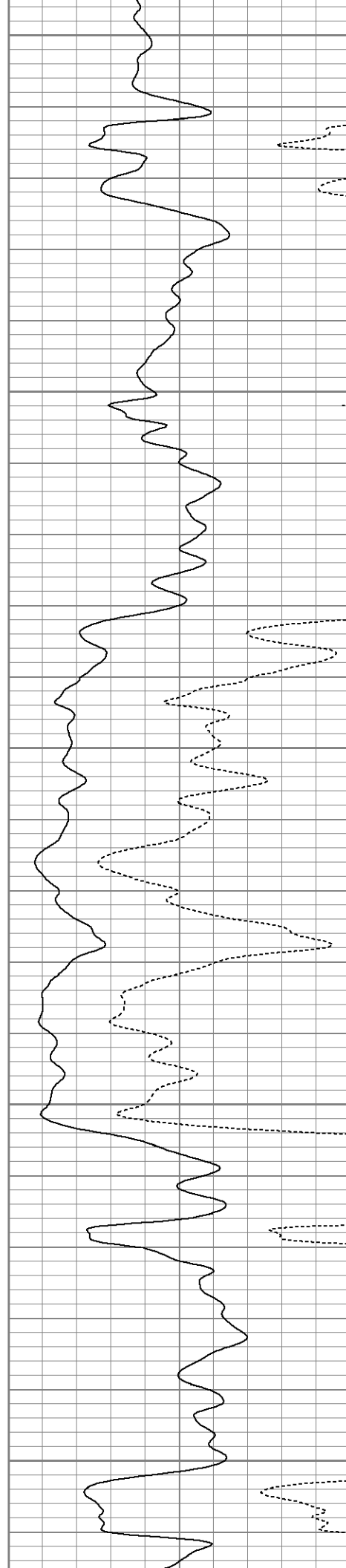
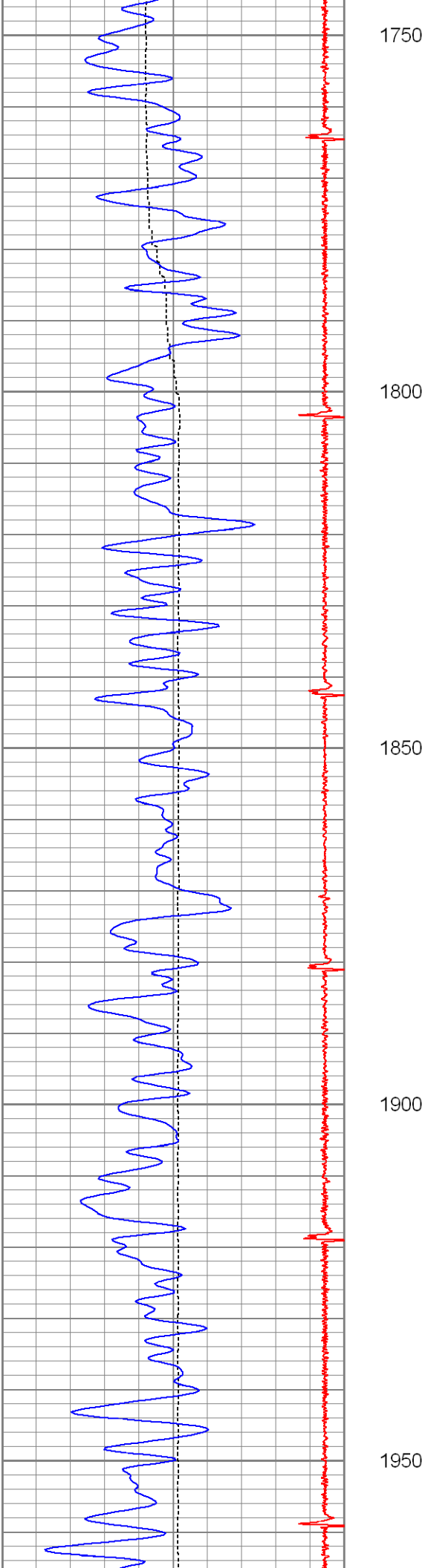


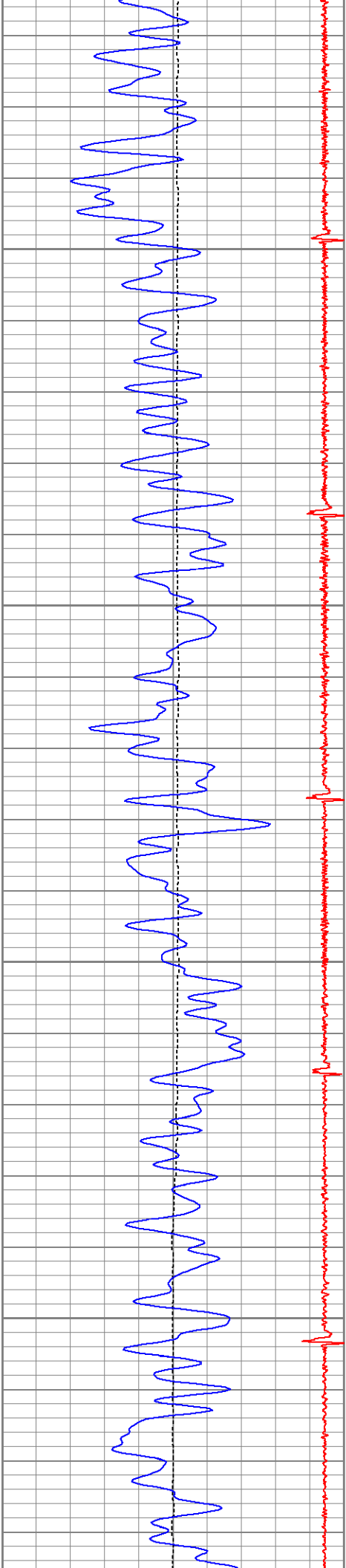










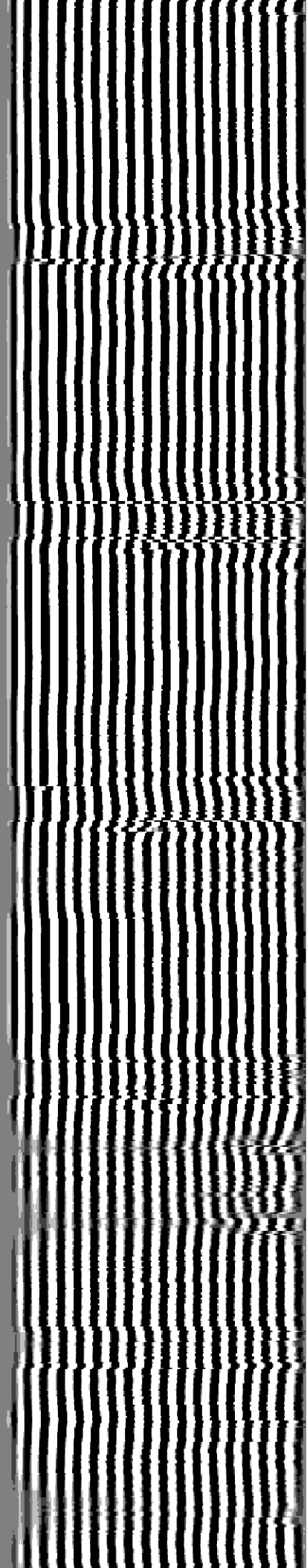
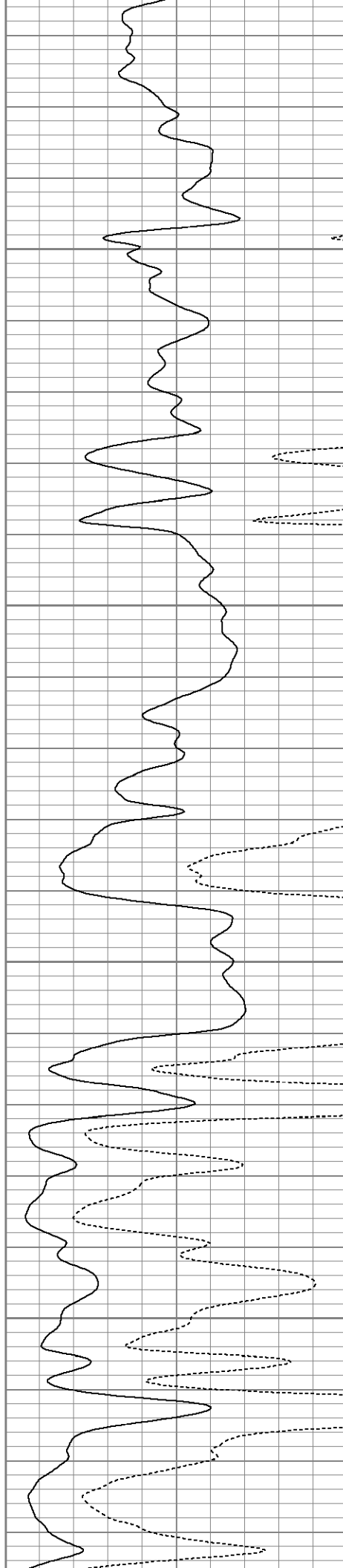


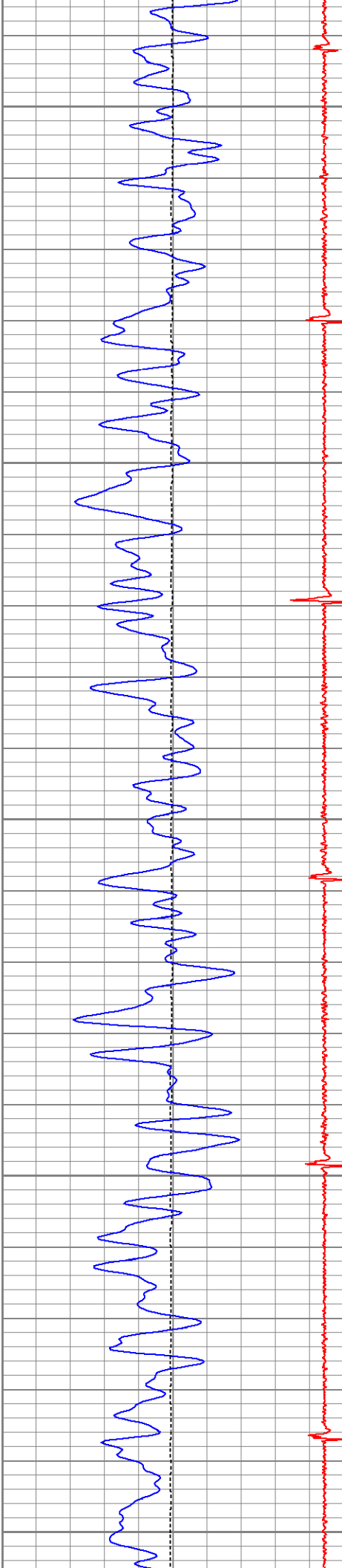
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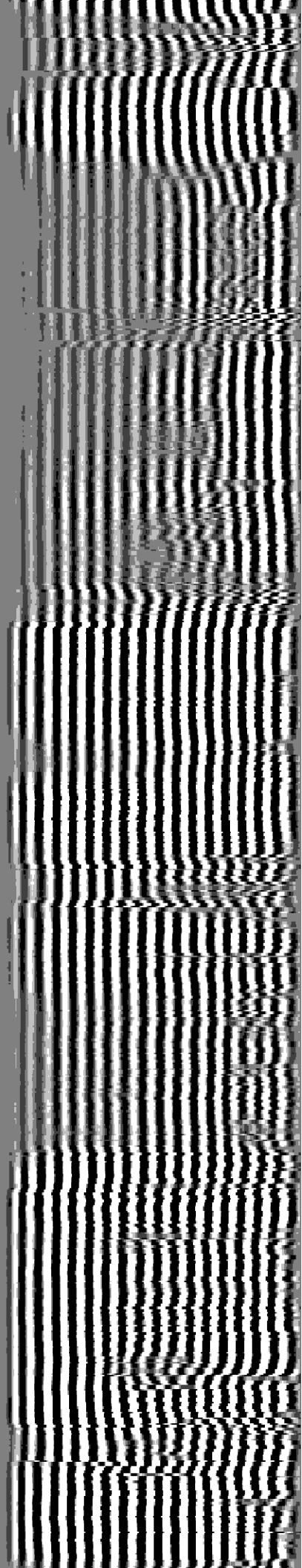
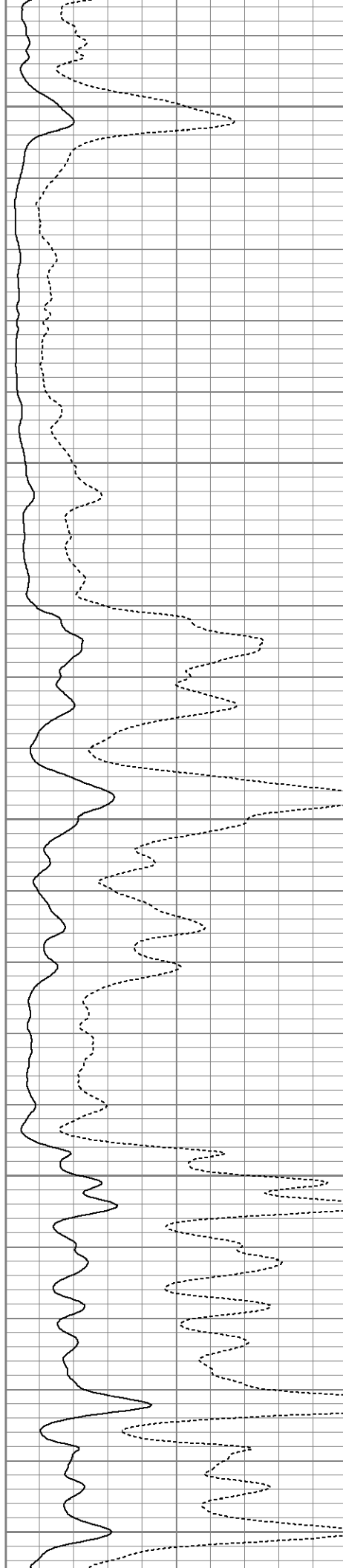
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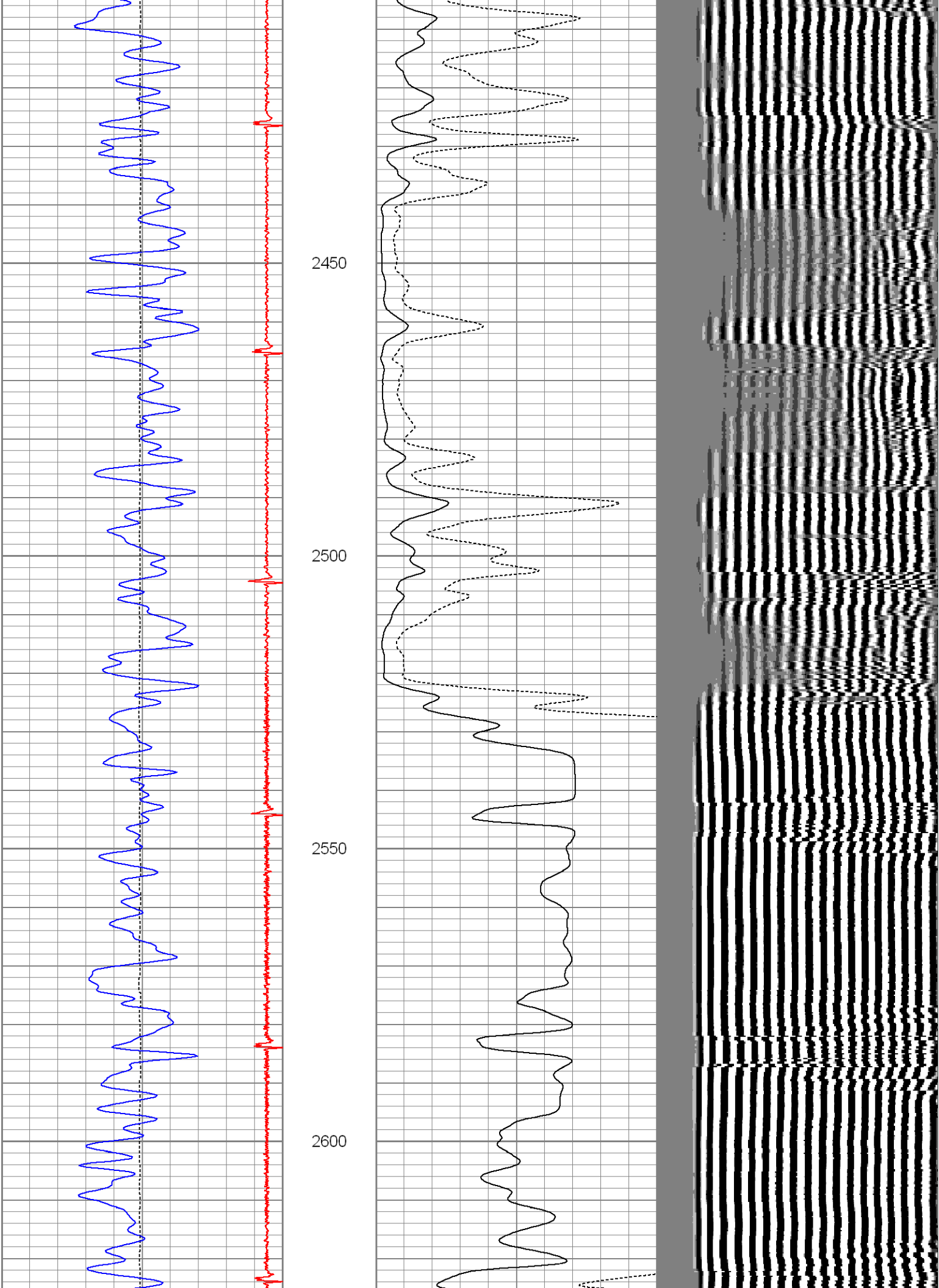
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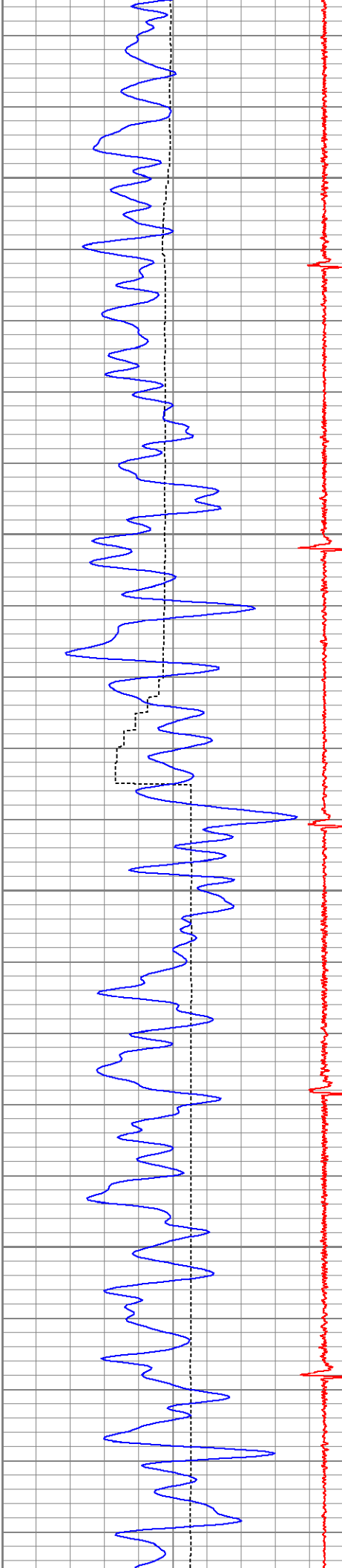
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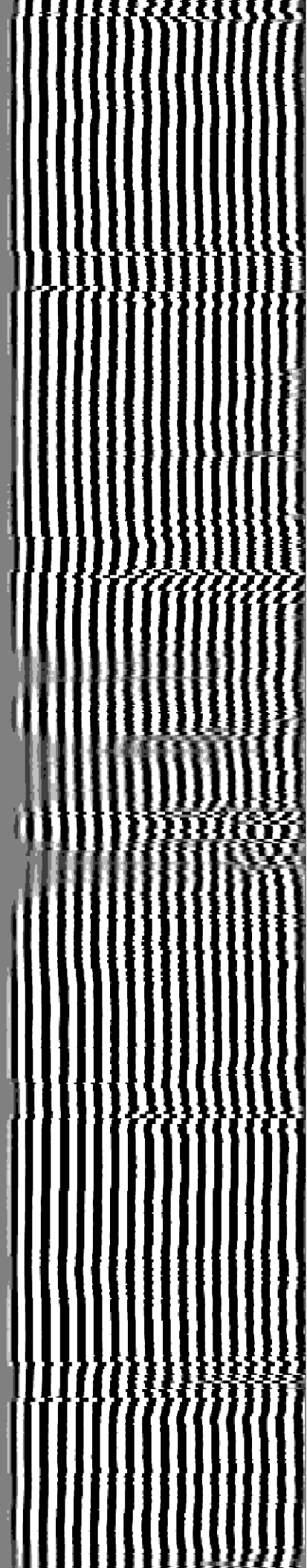
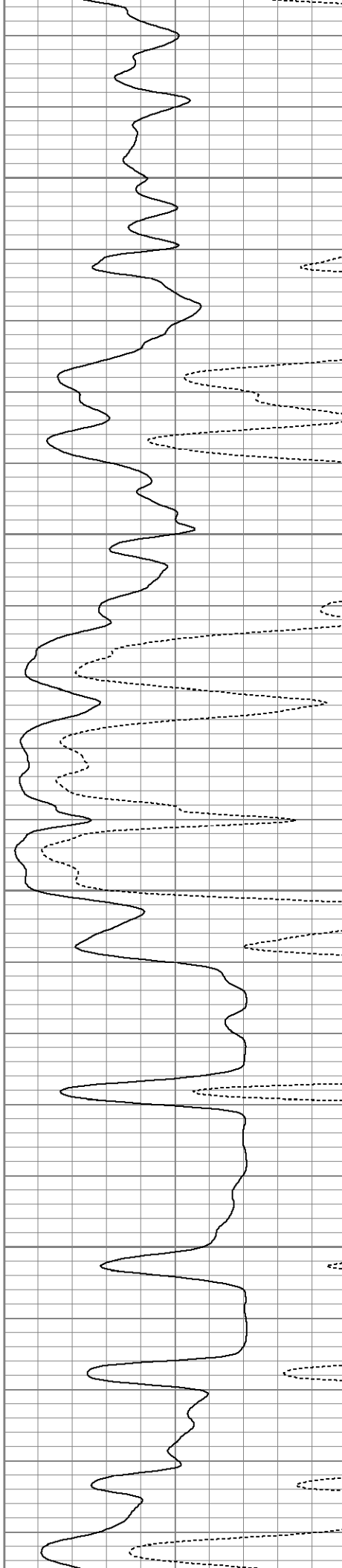


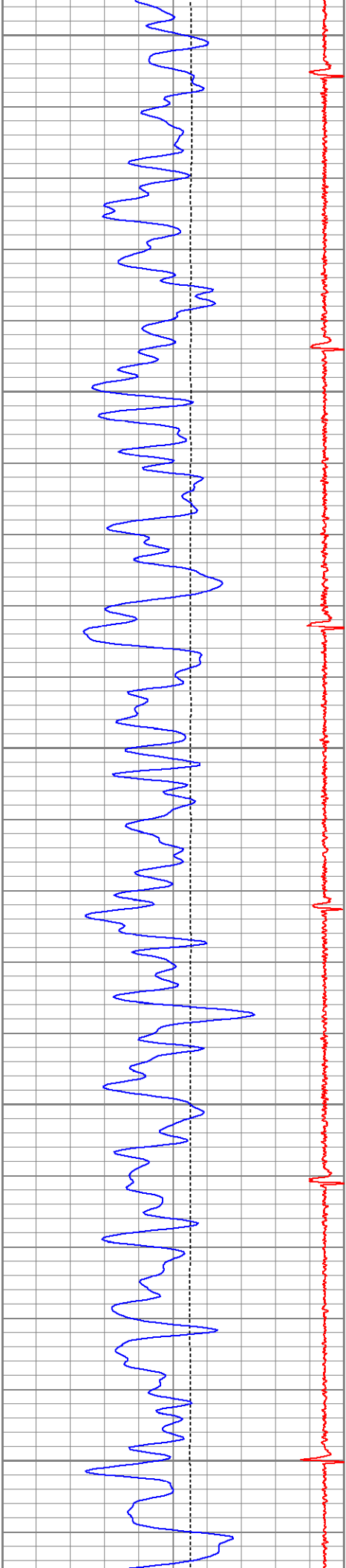
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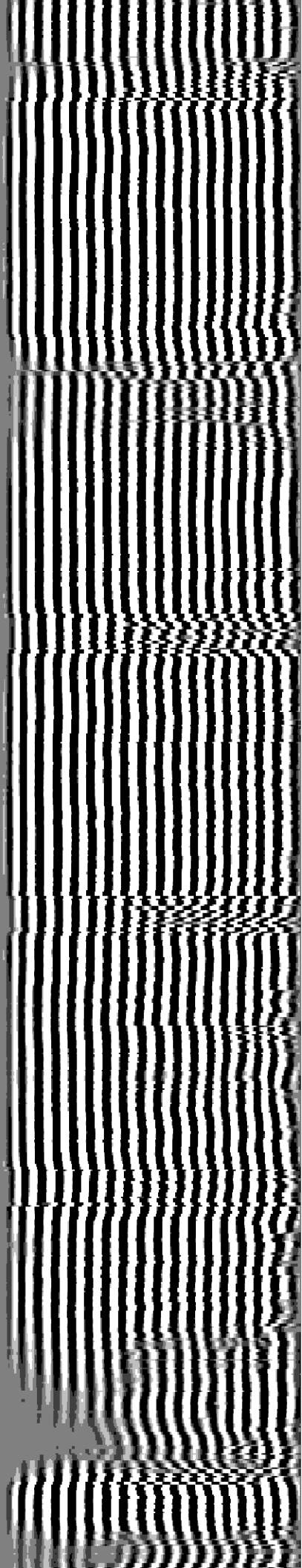
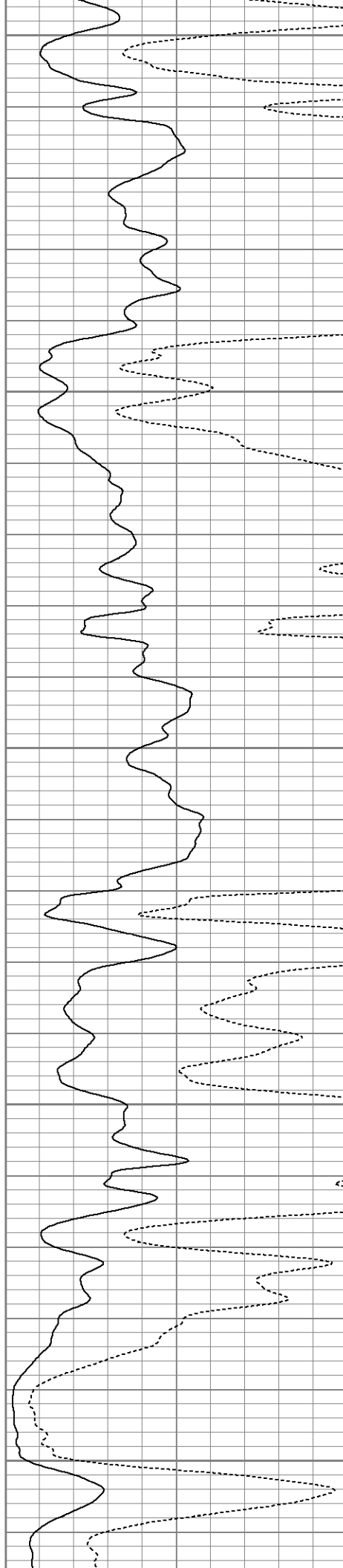
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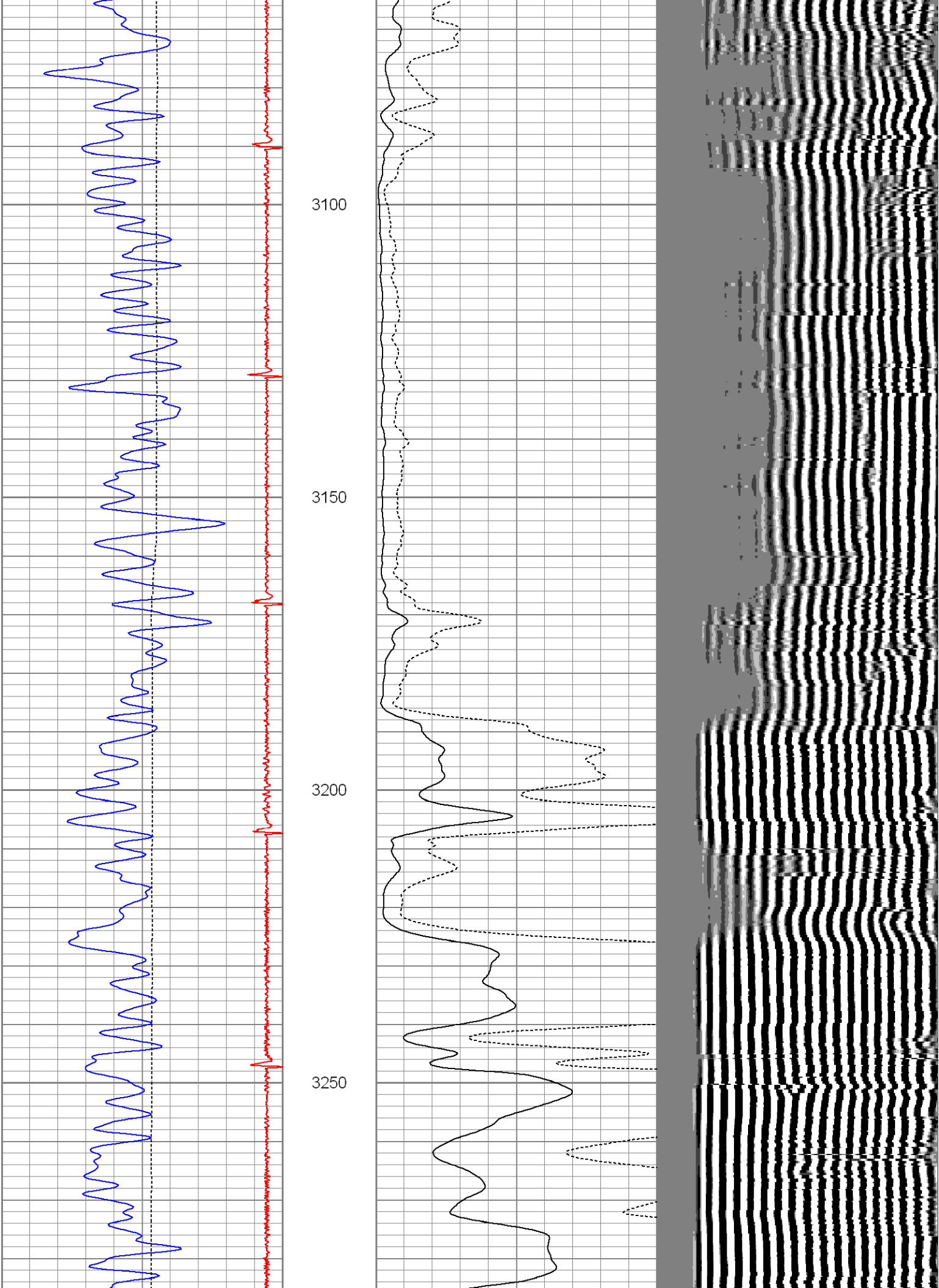
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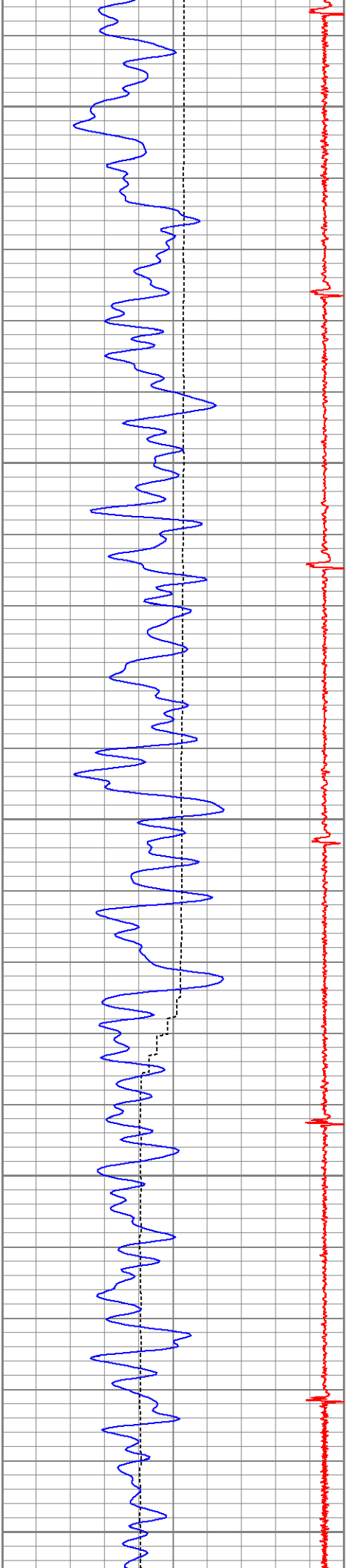
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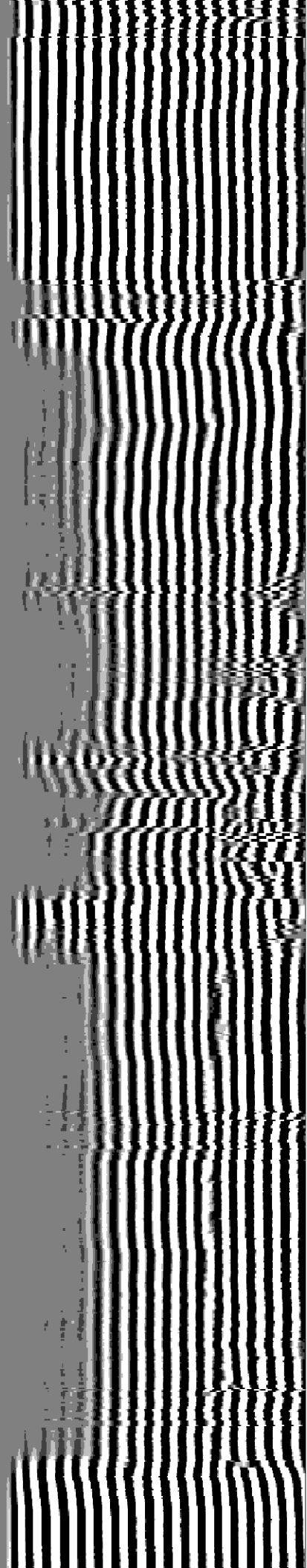
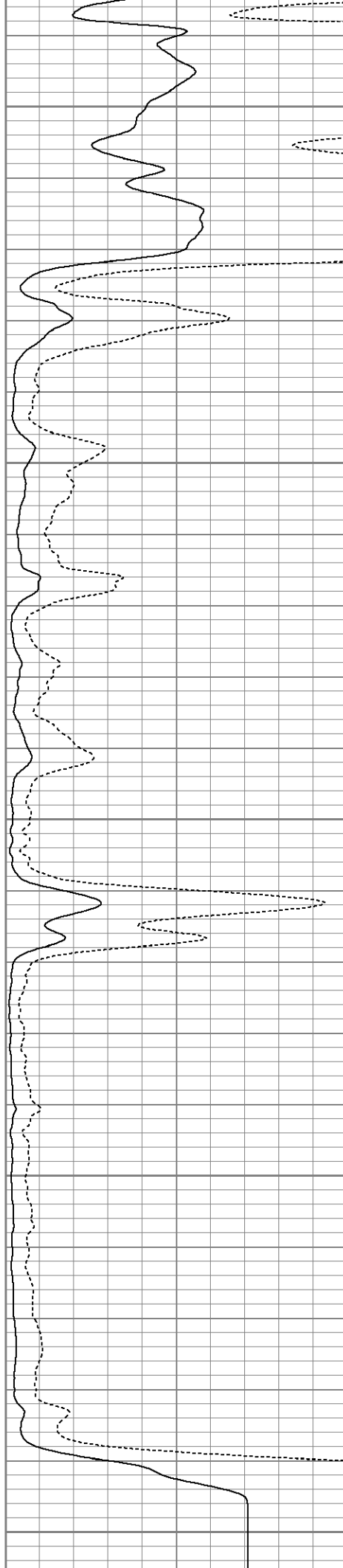
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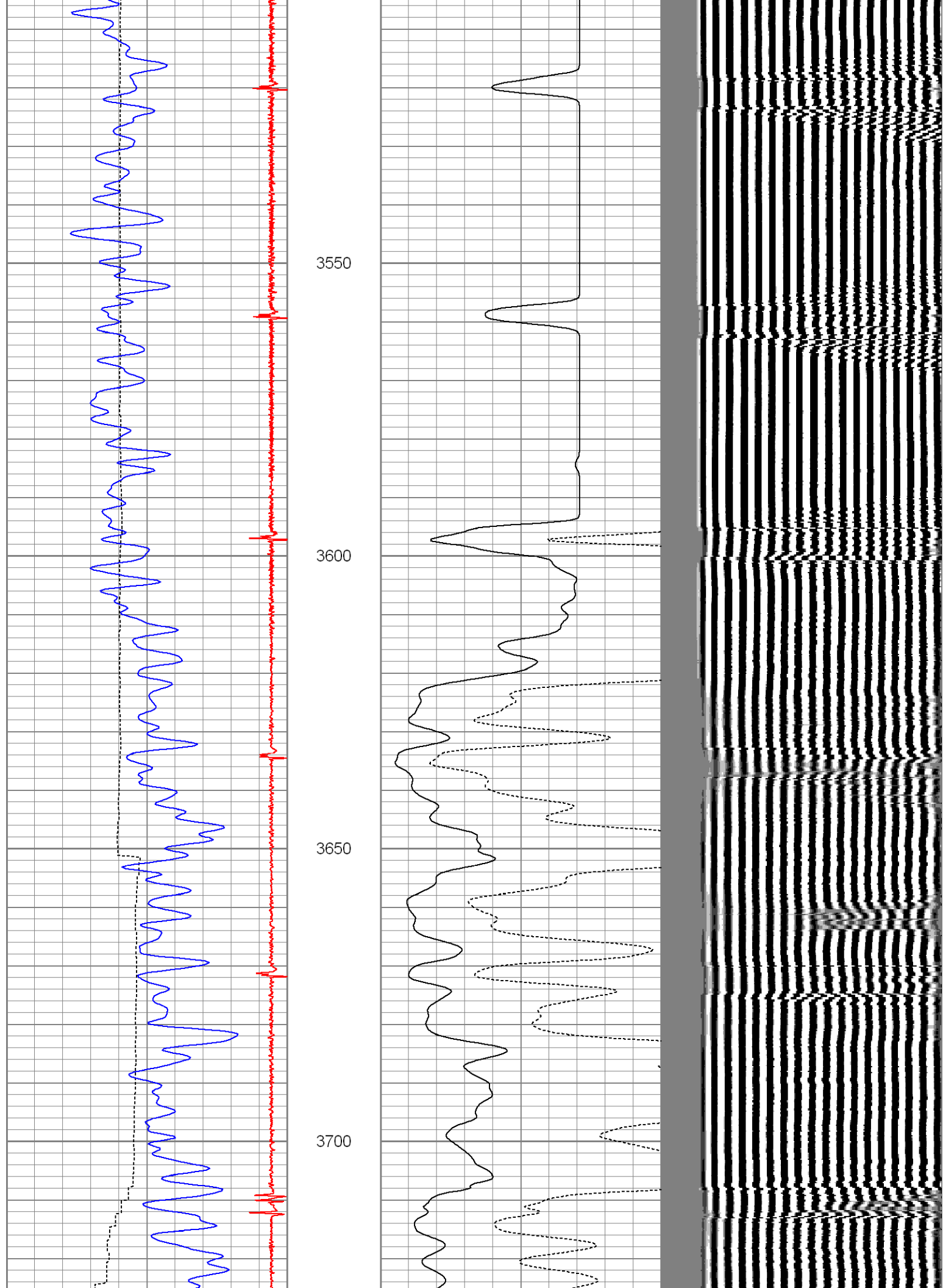
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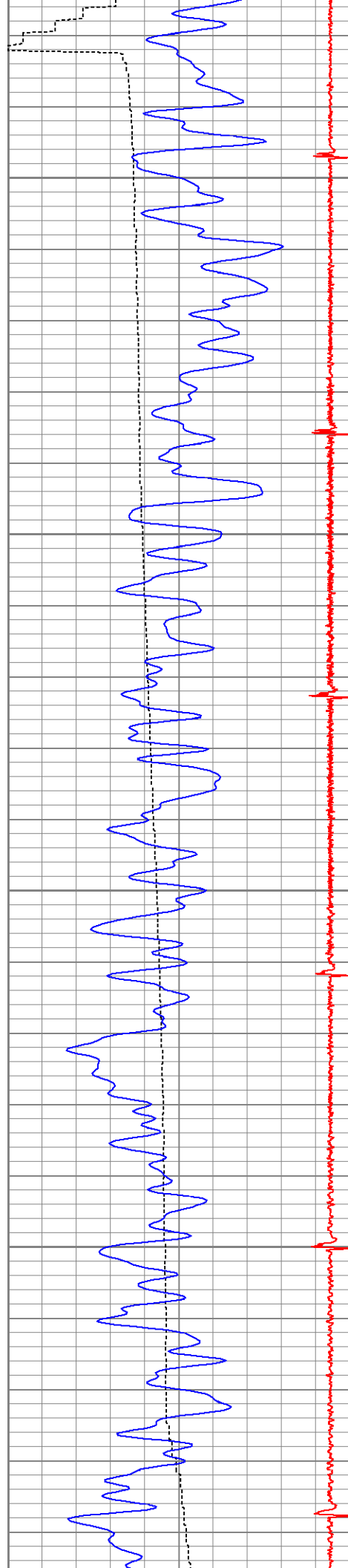
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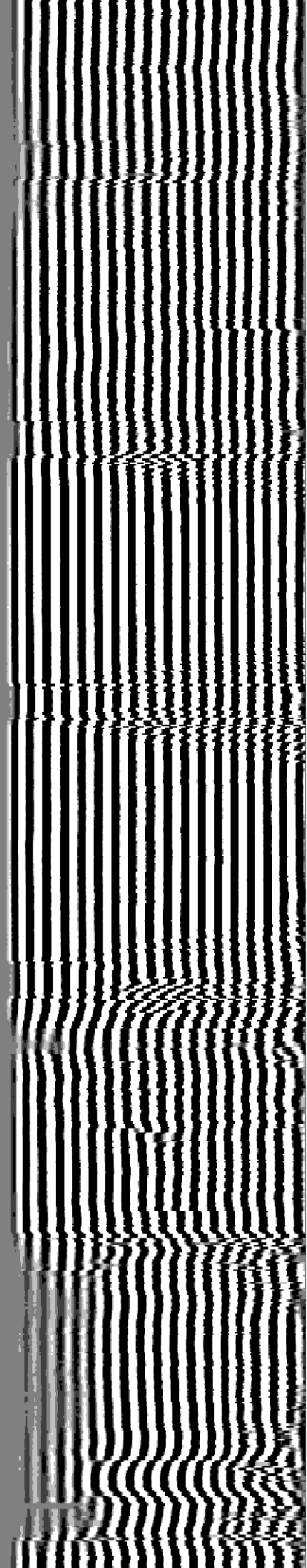
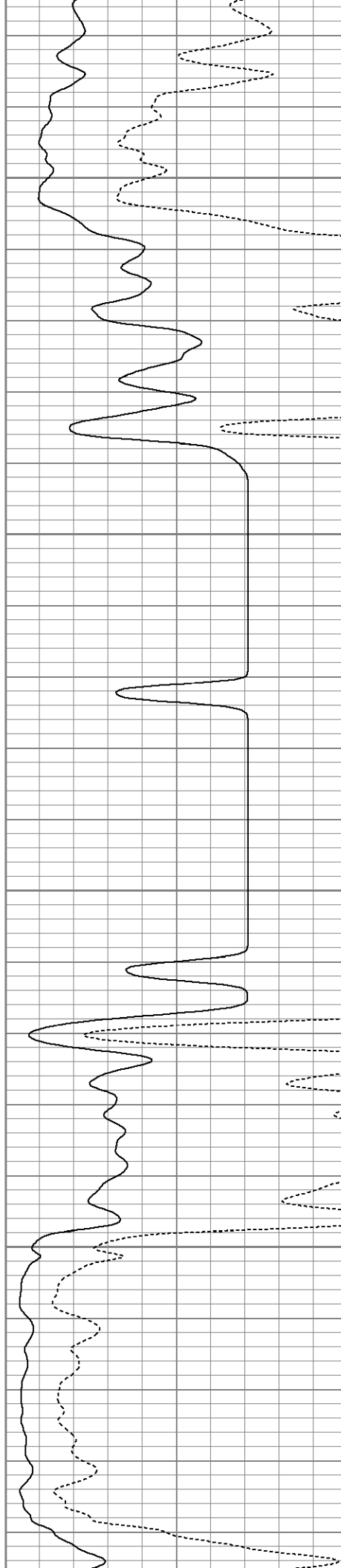


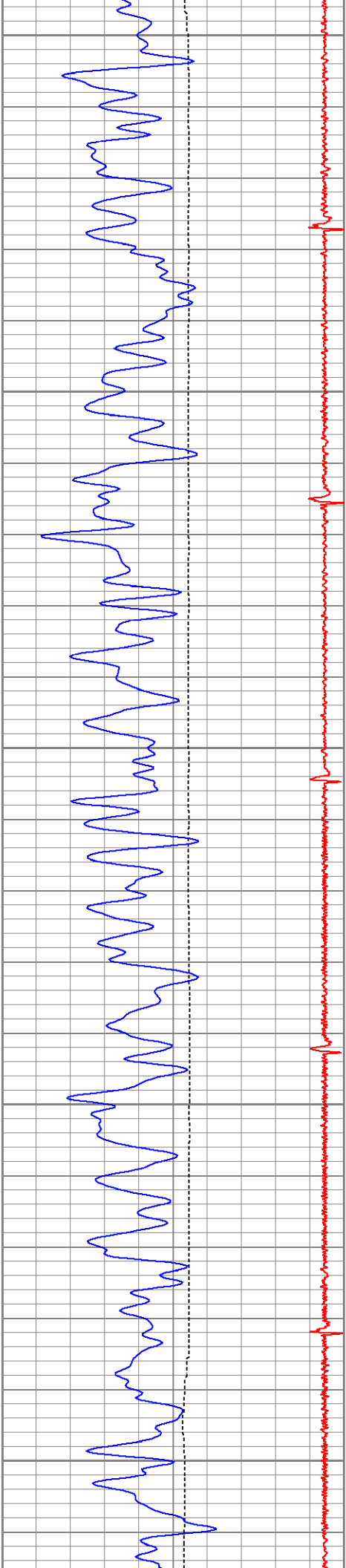
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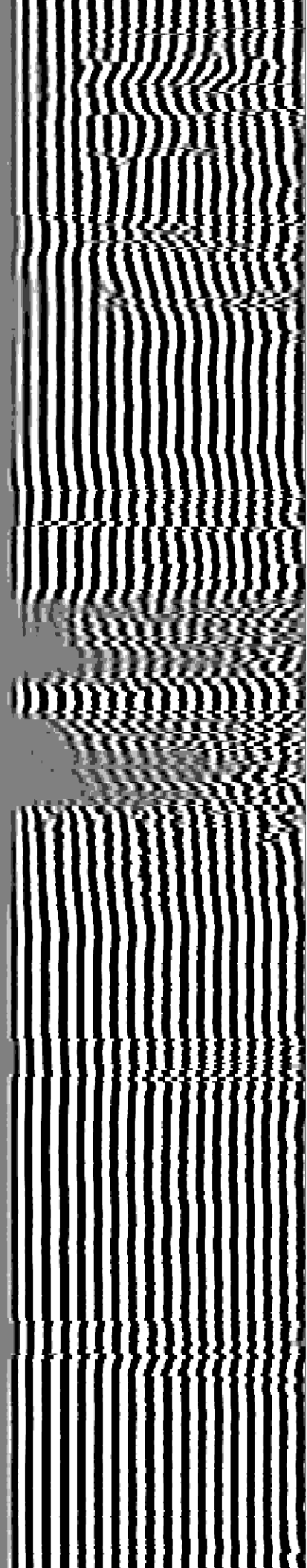
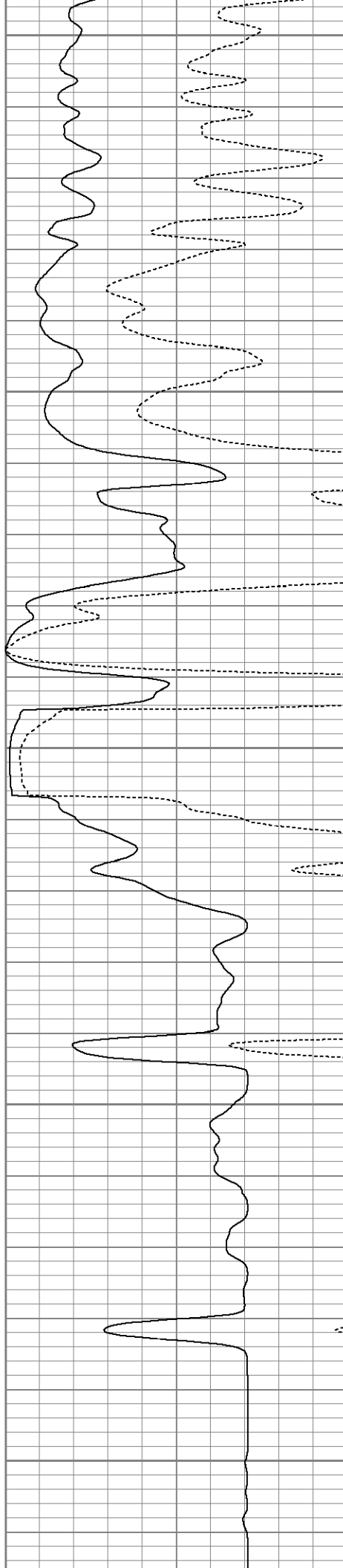
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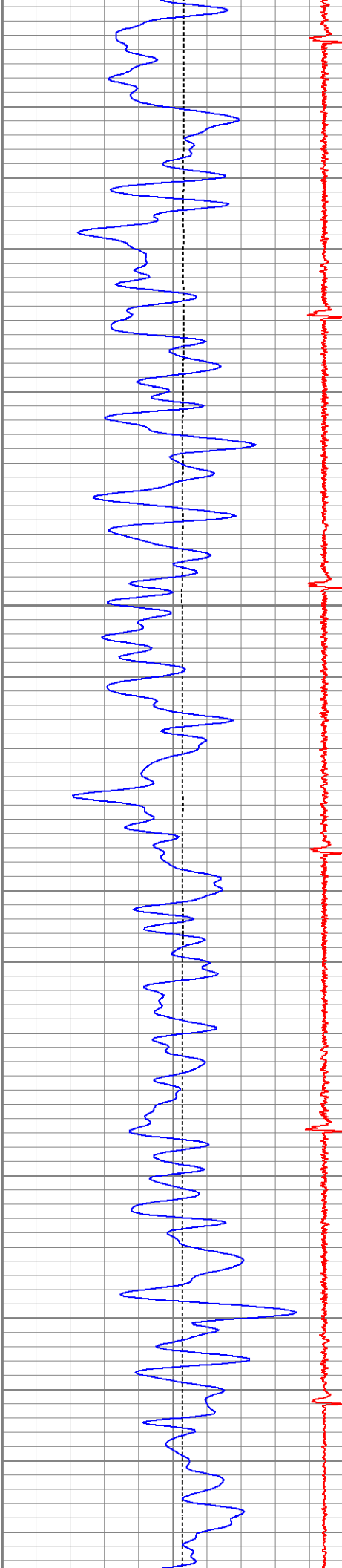
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4100

4150



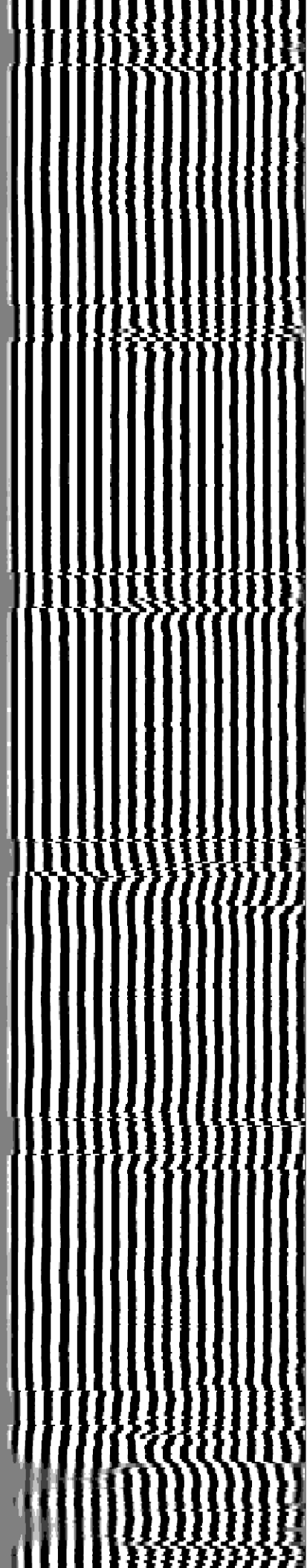
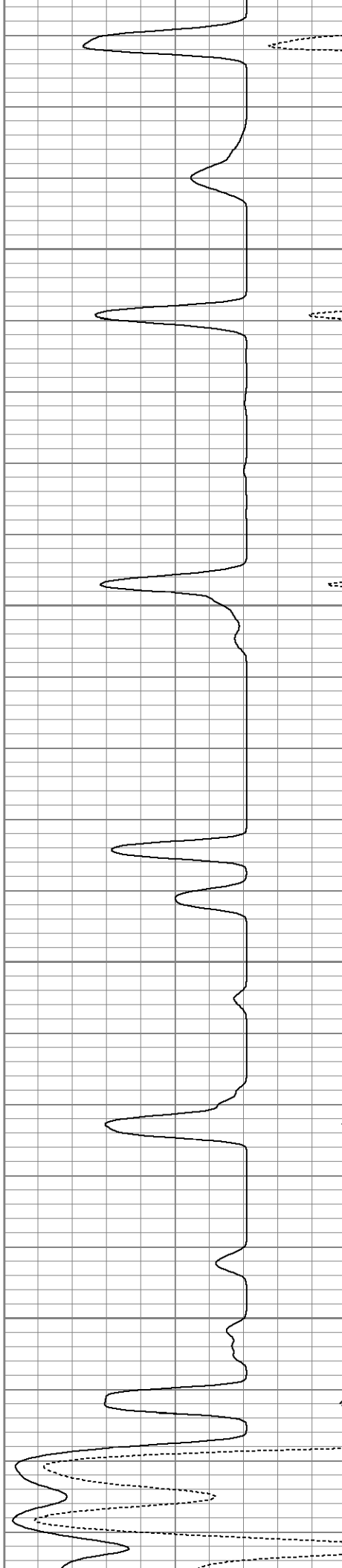


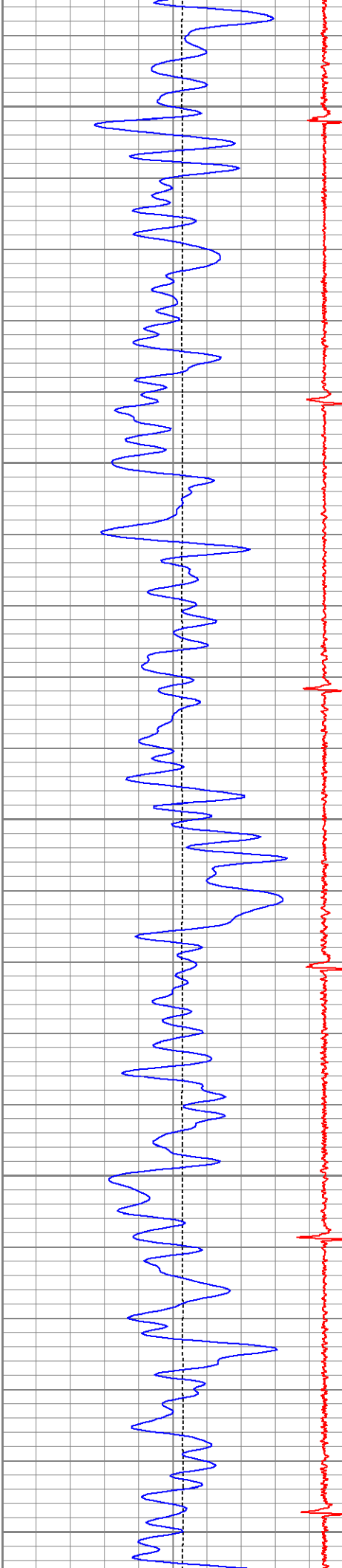
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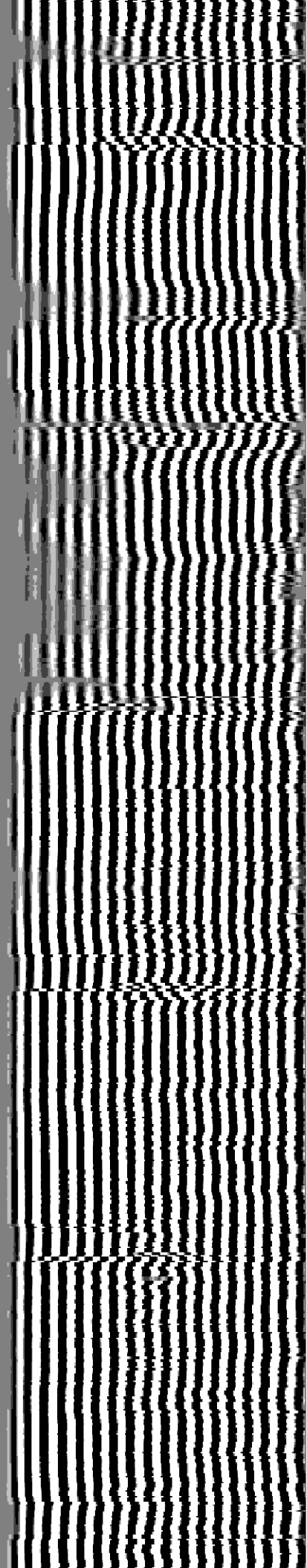
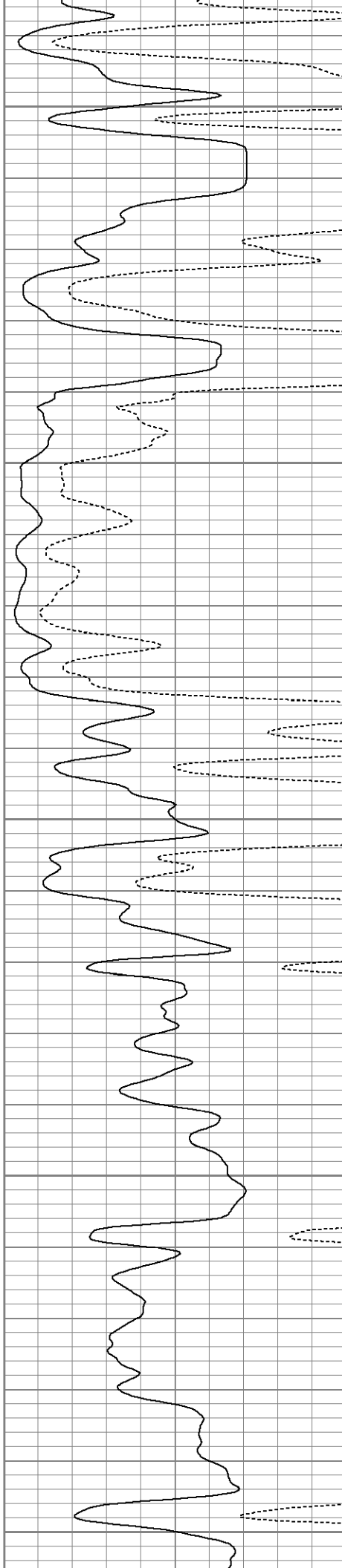
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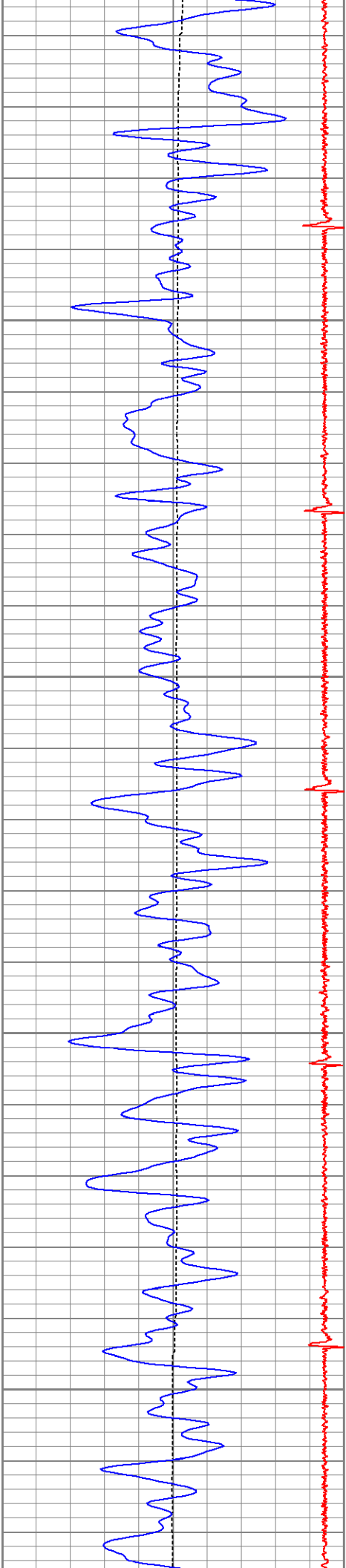
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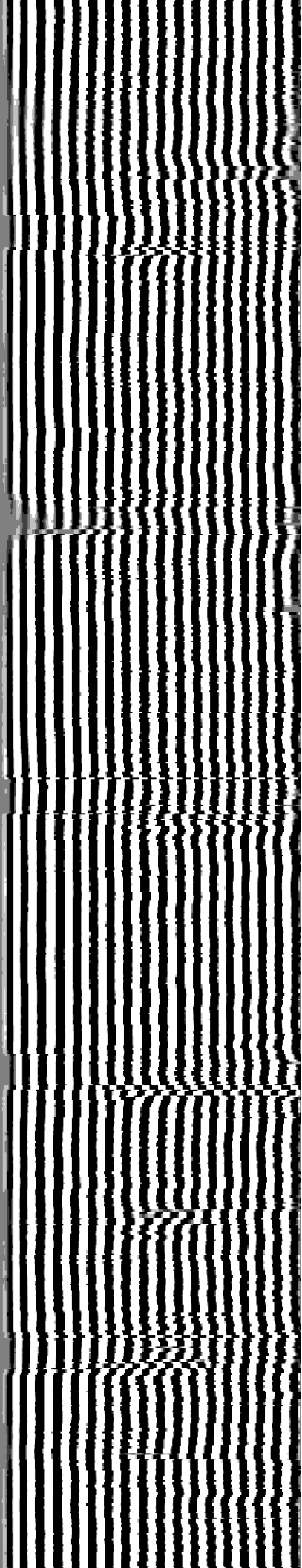
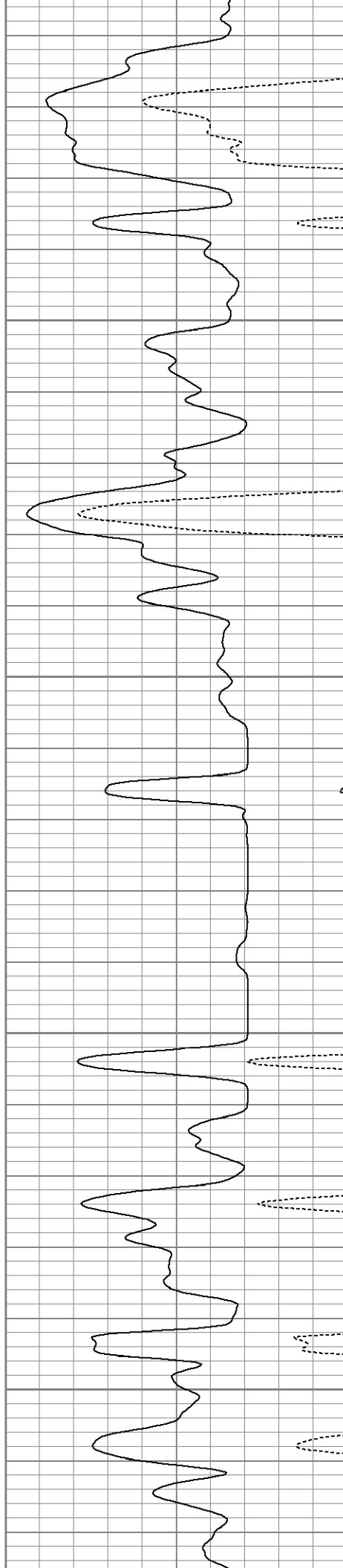


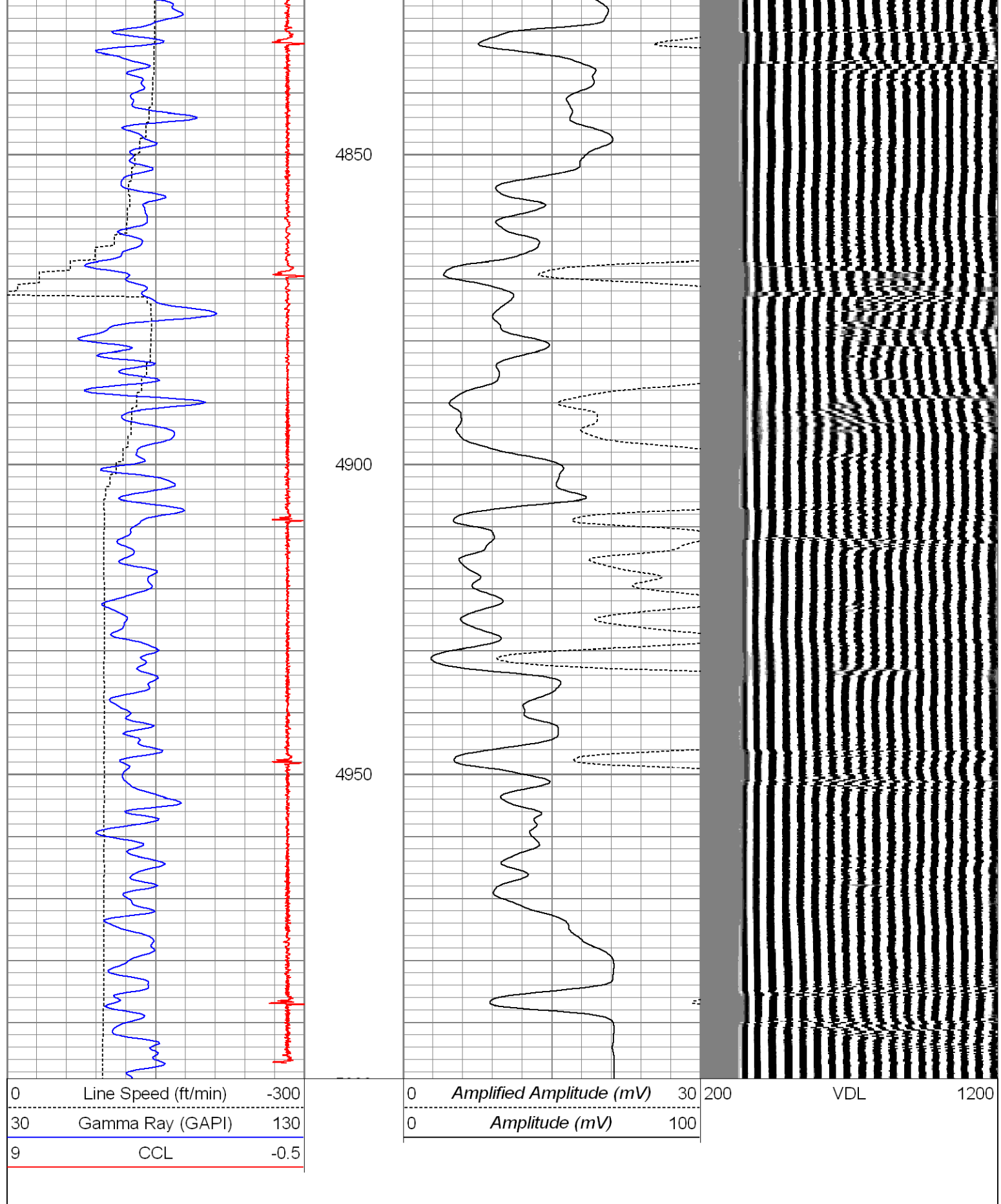
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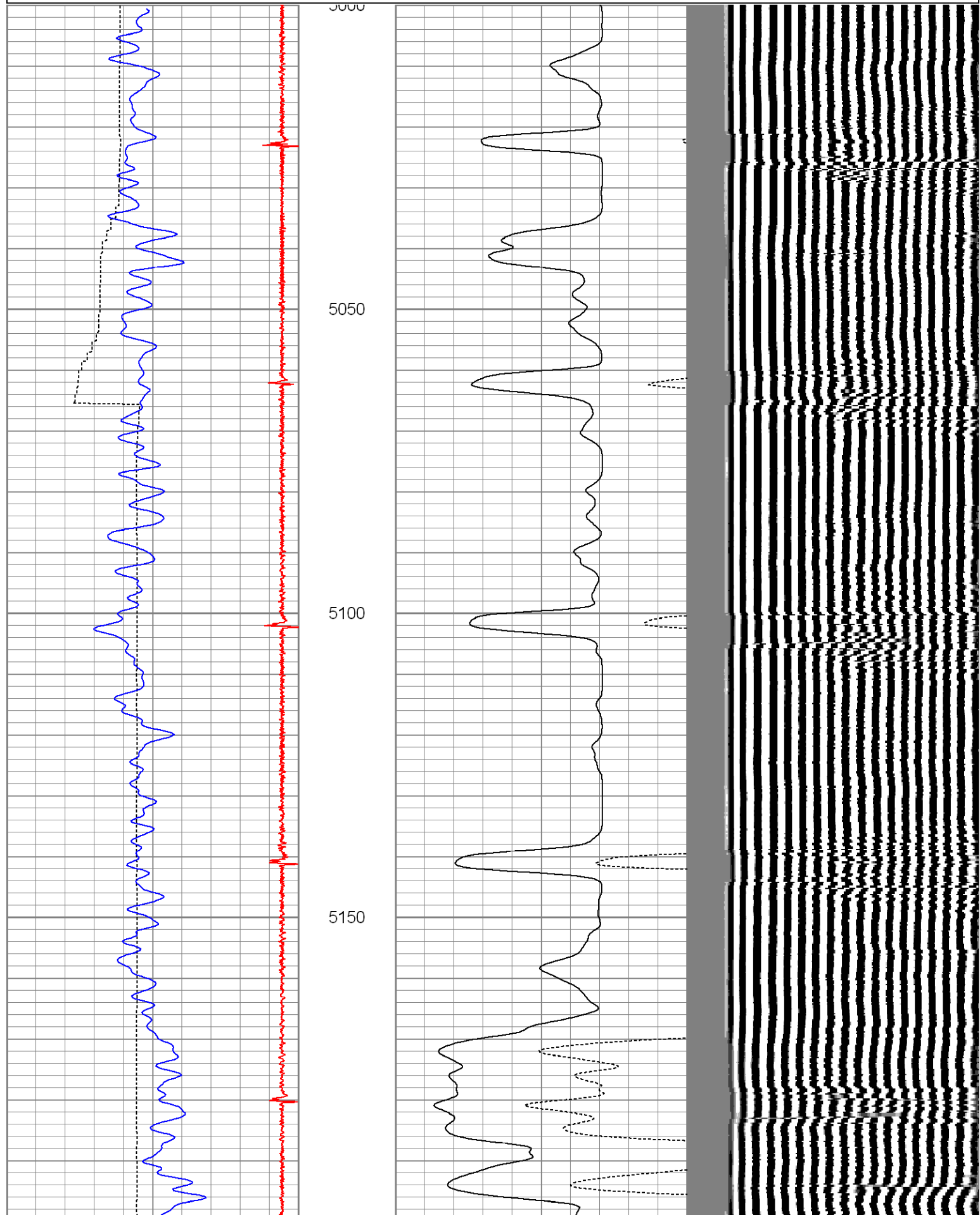


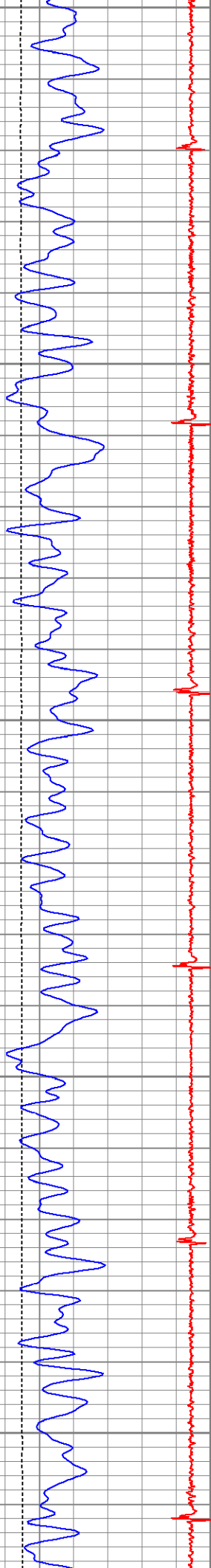
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Presentation Format: nuexbond  
Dataset Creation: Tue Apr 07 12:22:06 2009 by Log Open-Cased 071220  
Charted by: Depth in Feet scaled 1:240

0	Line Speed (ft/min)	300
0	Gamma Ray (GAPI)	200
9	CCL	-0.5

0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100

200 VDL 1200





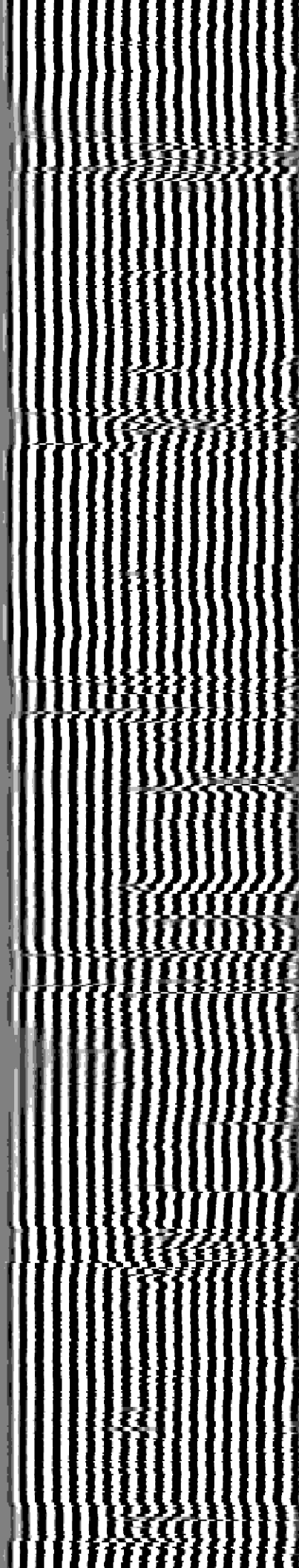
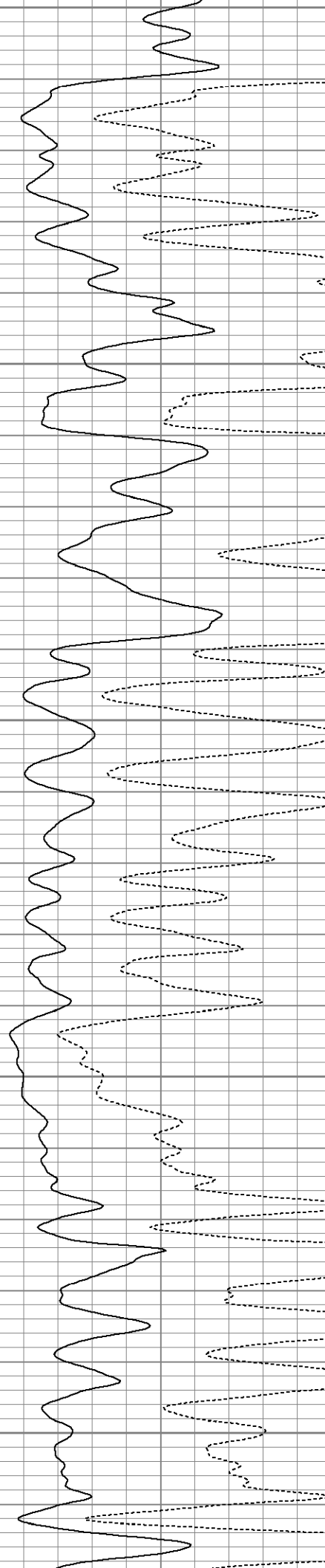
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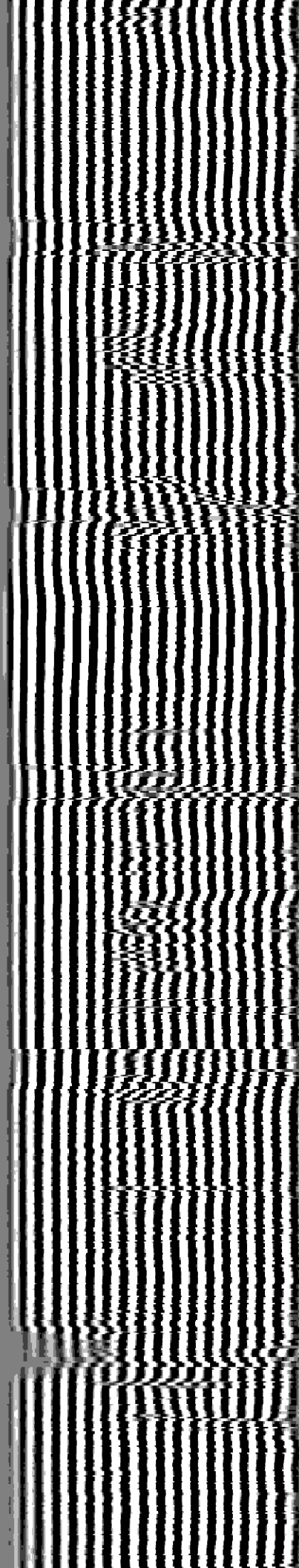
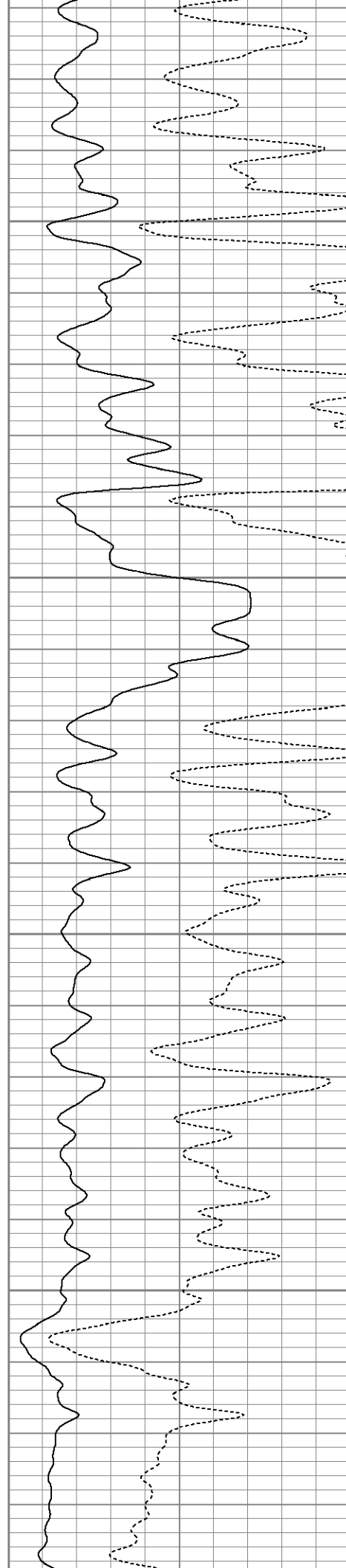
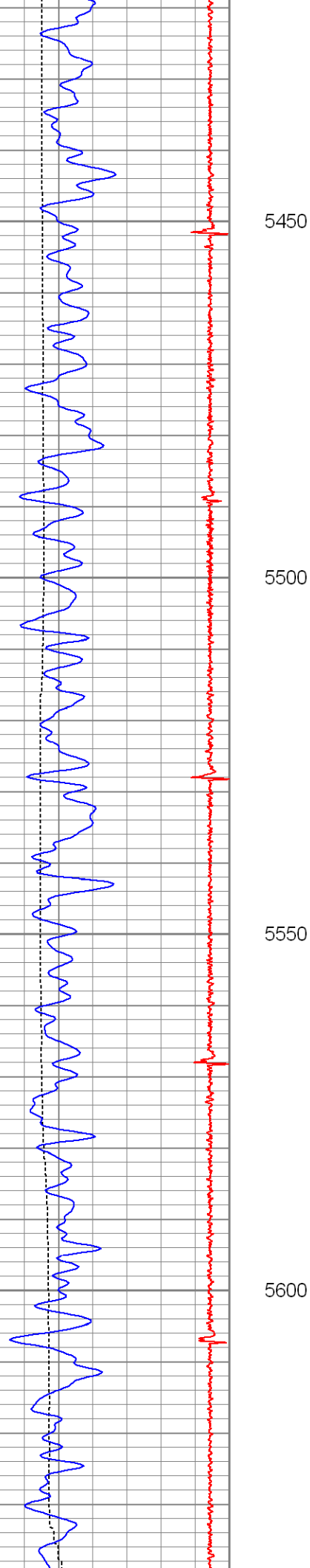
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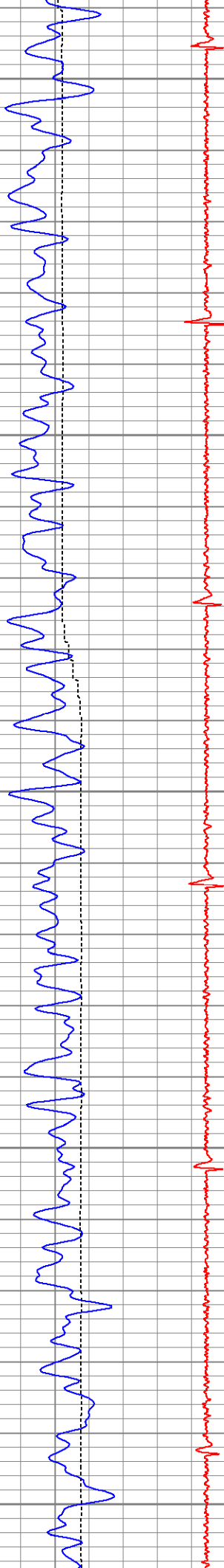
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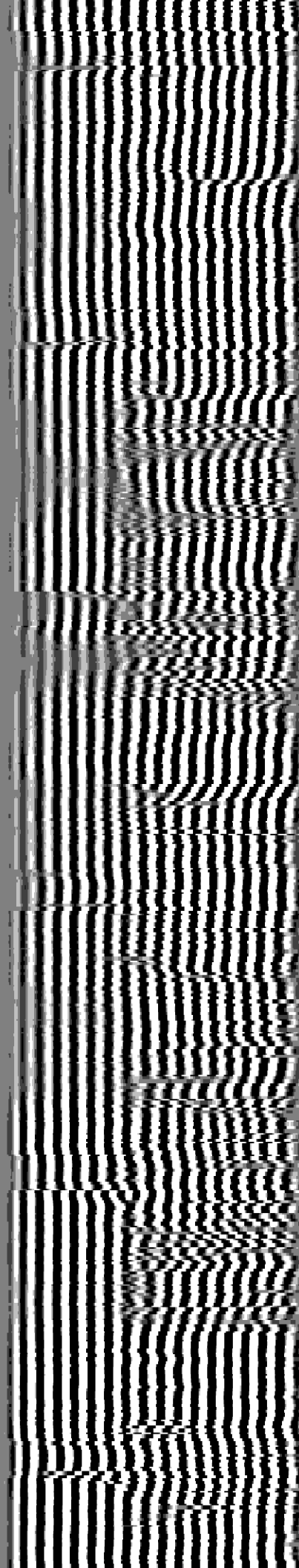
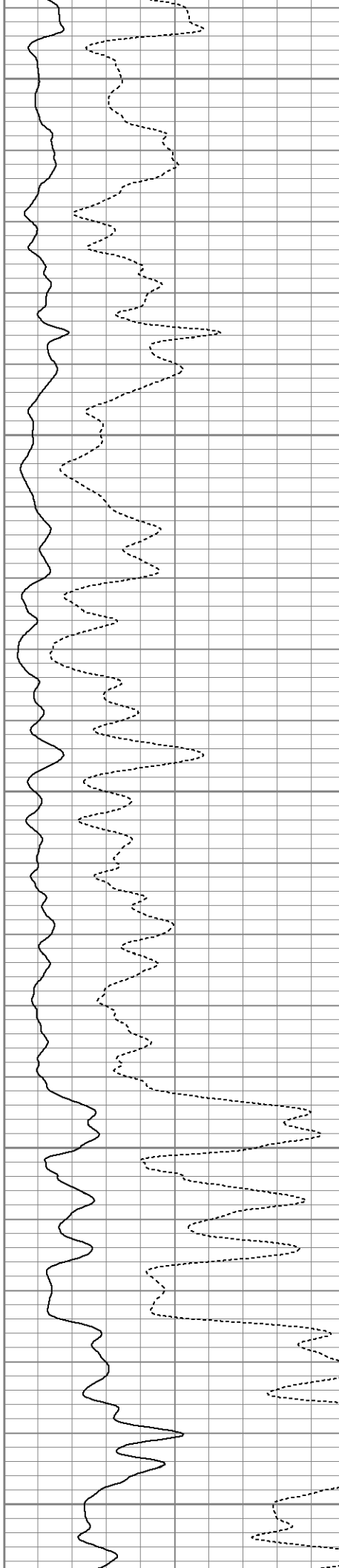
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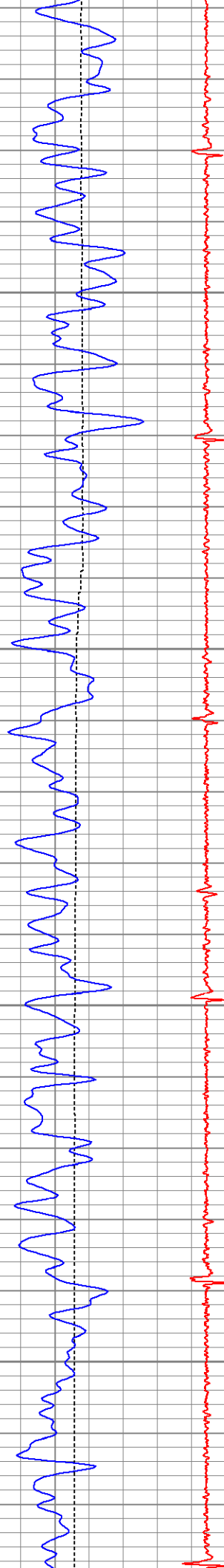
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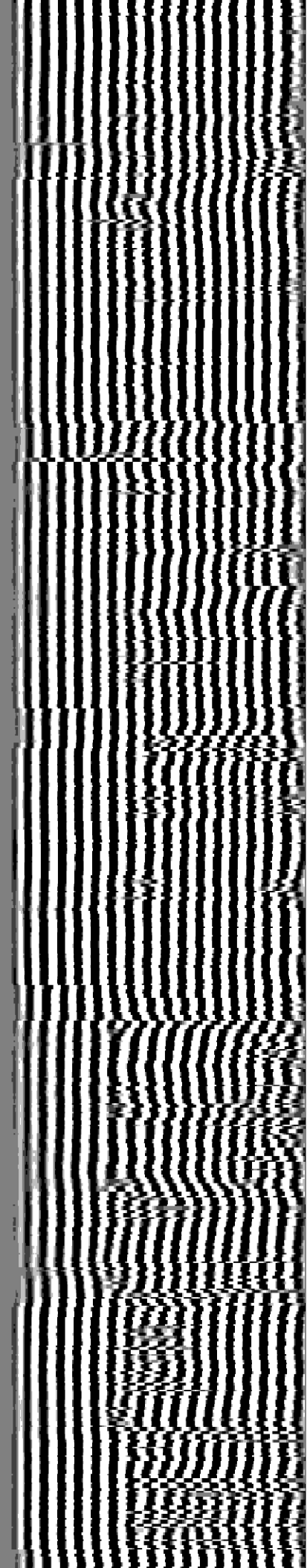
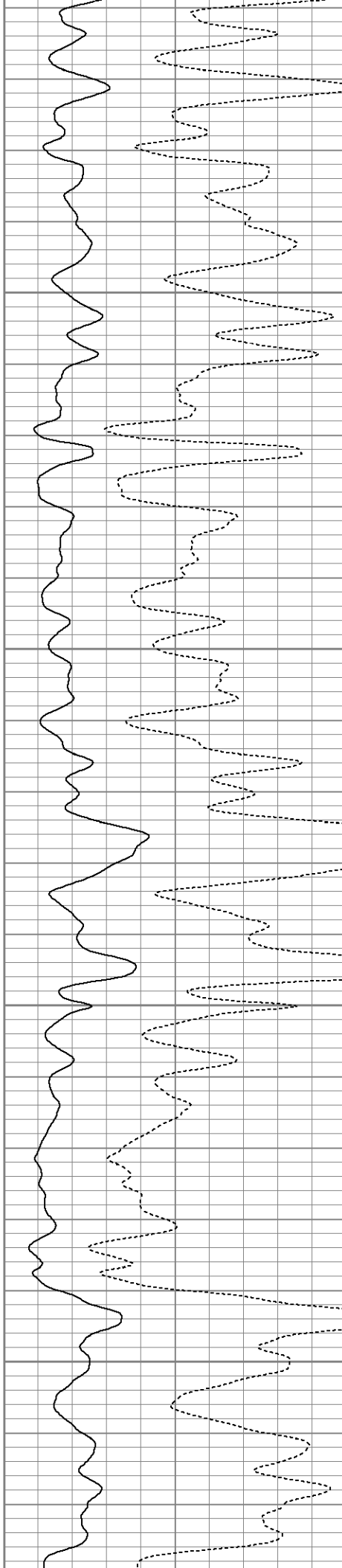


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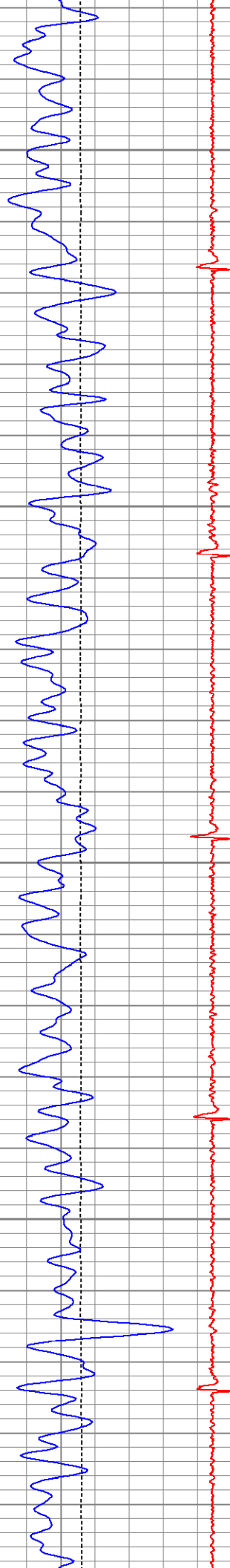
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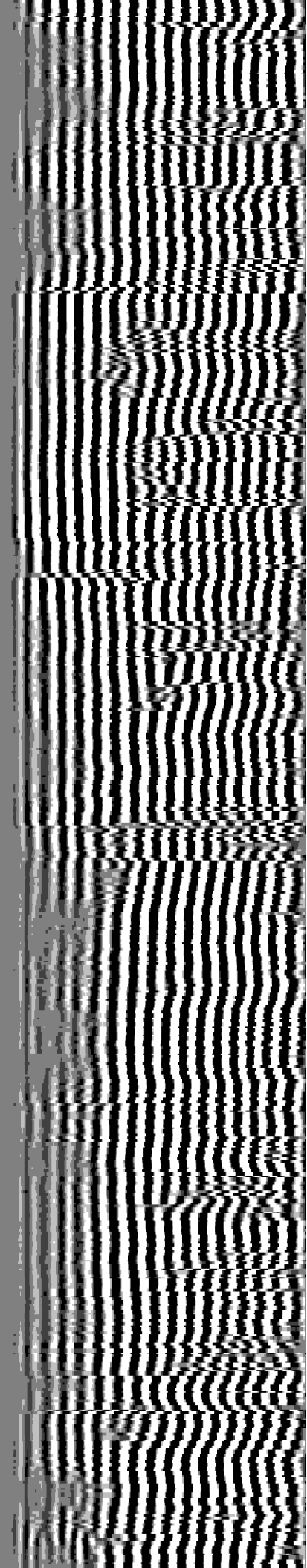
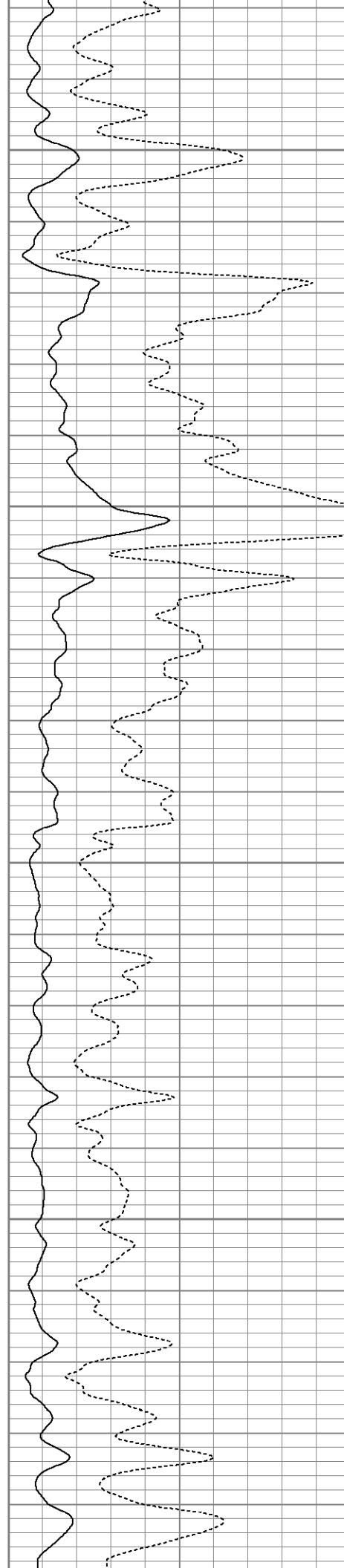


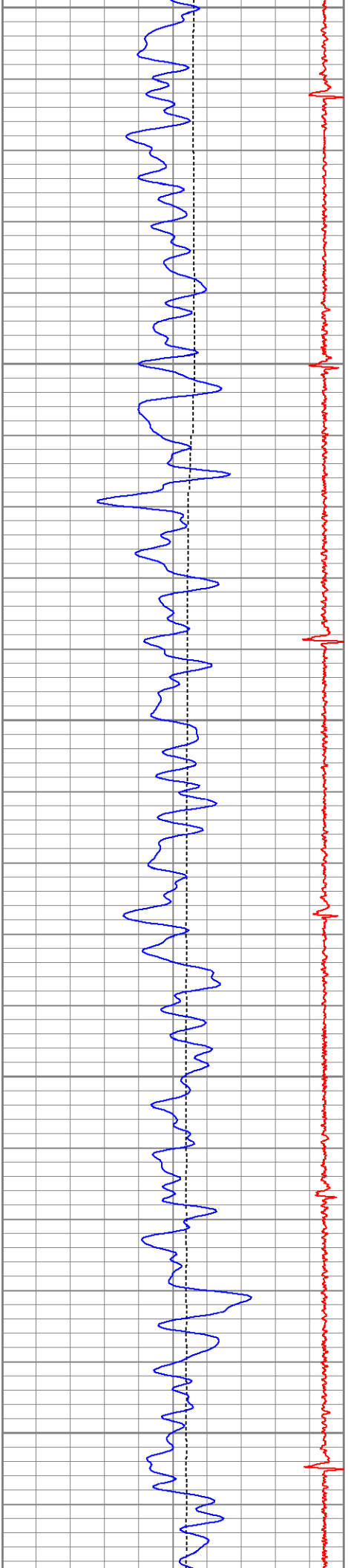
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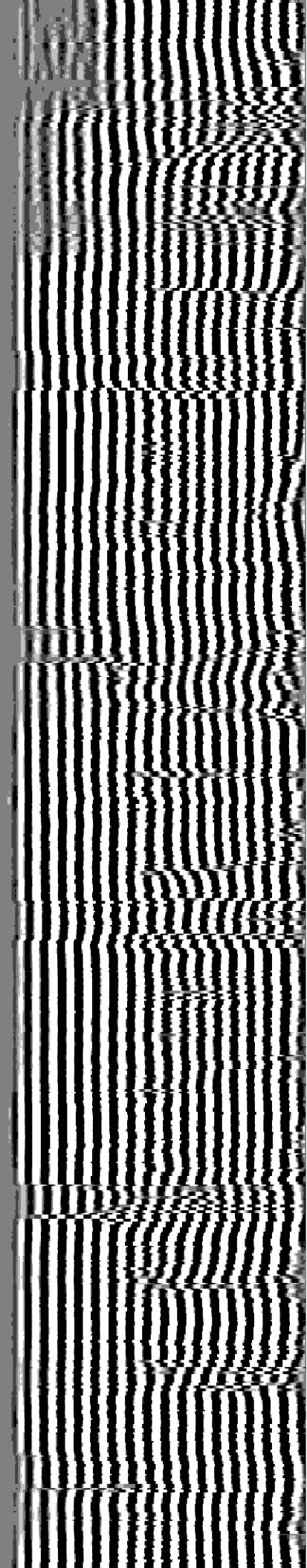
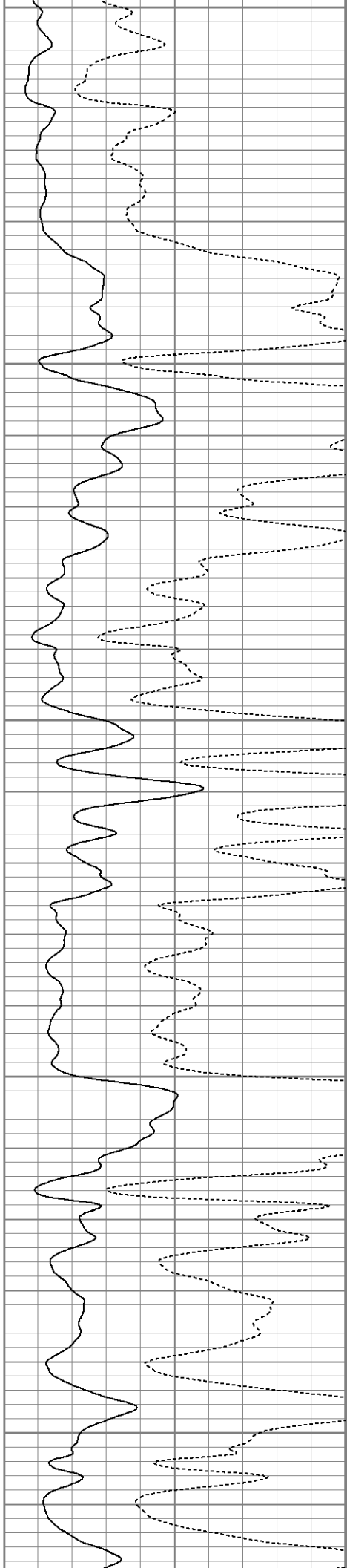
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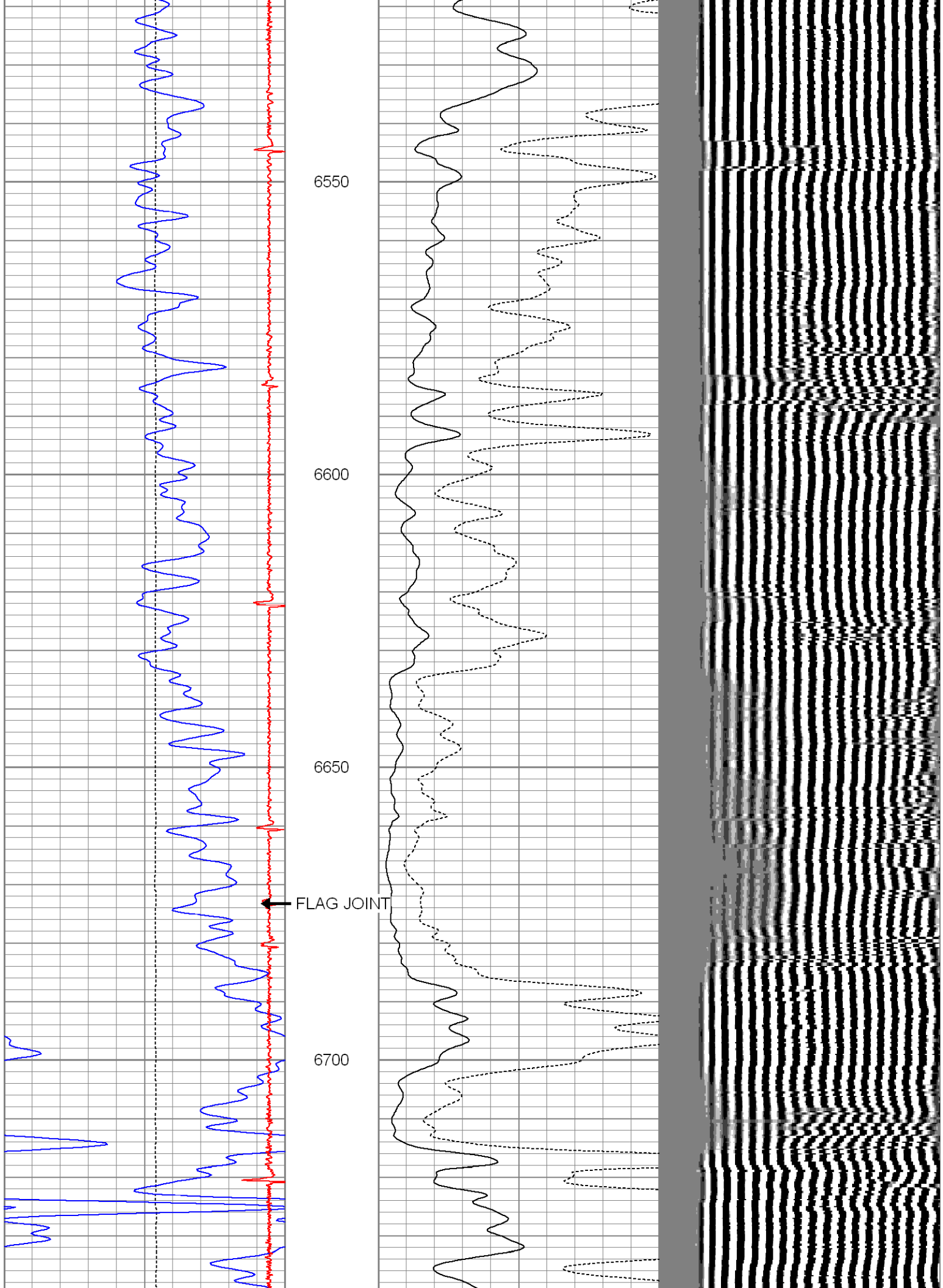
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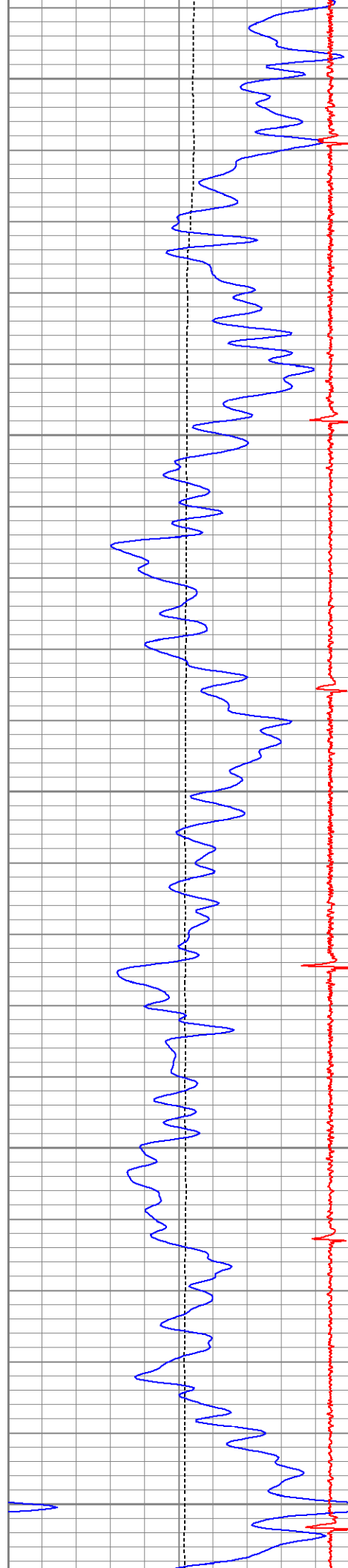




6300  
6350  
6400  
6450  
6500







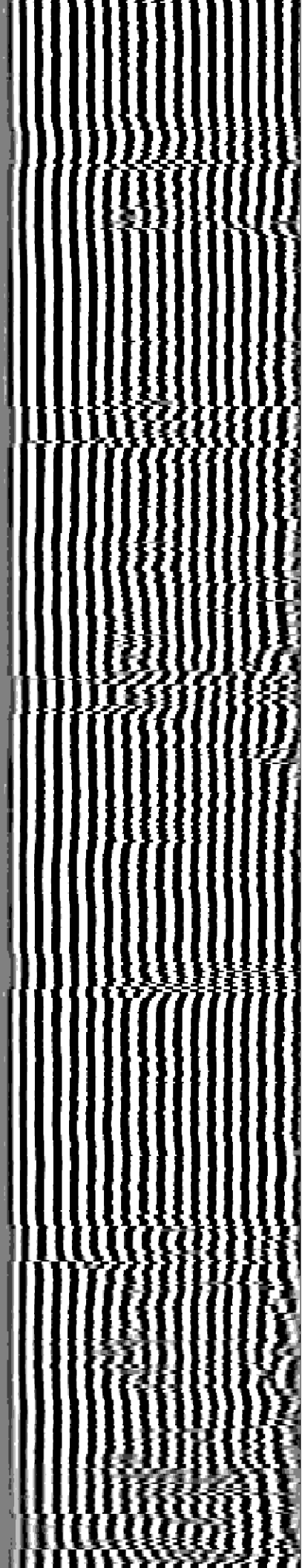
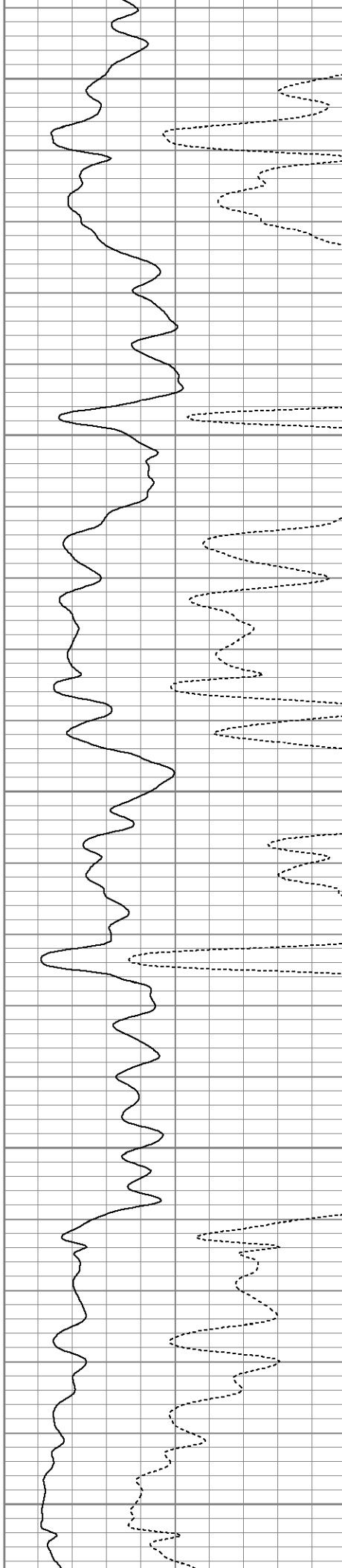
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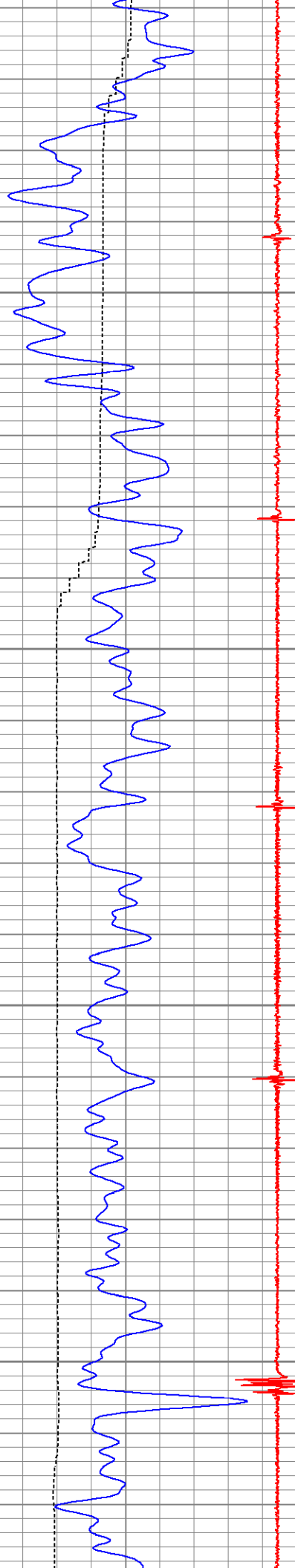
6800

6850

6900

6950





7000

7050

7100

7150

← DV TOOL

