

Pioneer Energy Services

**PIONEER****Cement Bond Log & V.D.L.  
Gamma-Ray & C.C.L.**

Company Anadarko Petroleum Corp.  
Well Russian Fiddler 37N-18HZ  
Field Wattenberg  
County Weld  
State Colorado

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**Location:**

API #: 5123362270000

Other Services  
None

SEC 19 TWP 2N RGE 65W

Permanent Datum GL Elevation 4989  
Log Measured From KB  
Drilling Measured From KB

Elevation  
K.B. 5005  
D.F. 5006  
G.L. 4989

Date 5-21-13

Run Number	1
Depth Driller	12711
Depth Logger	6636'
Bottom Logged Interval	6636'
Top Log Interval	SURFACE
Open Hole Size	9 5/8"
Type Fluid	Water
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	258'
Time Well Ready	ROA
Time Logger on Bottom	PM
Equipment Number	41
Location	Ft. Morgan
Recorded By	Nathan Bivens
Witnessed By	Dann Kirkpatrick

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"	26#		
Liner				

&lt;&lt;&lt; Fold Here &gt;&gt;&gt;

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****S.O.# 2-203934****WCR 18 & WCR 37 E .5 NE .1 into****E  
N O O X O S  
W****THANK YOU FOR USING PIONEER ENERGY SERVICES**

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)


Tool Joint	Length (ft)	Weight (lb)	O.D. (in)	Notes
PTS275	2.83	2.75		
WV3FT	11.63	8.88	90.00	
WVFCAL	11.63			
WVFS1	11.63			
WVFS2	11.63			
WVFS3	11.63			
WVFS4	11.63			
WVFS5	11.63			
WVFS6	11.63			
WVFS7	11.63			
WVFS8	11.63			
WV5FT	10.63			
PTS275	2.83	2.75		
CCL	3.63	4.54	57.00	
GR	0.89			

Dataset: 05123362270000\_russian\_fiddler\_37n\_18hz\_cbl.db: field/well/run1/pass3

Total Length: 19.08 ft

Total Weight: 147.00 lb

O.D.: 2.75 in

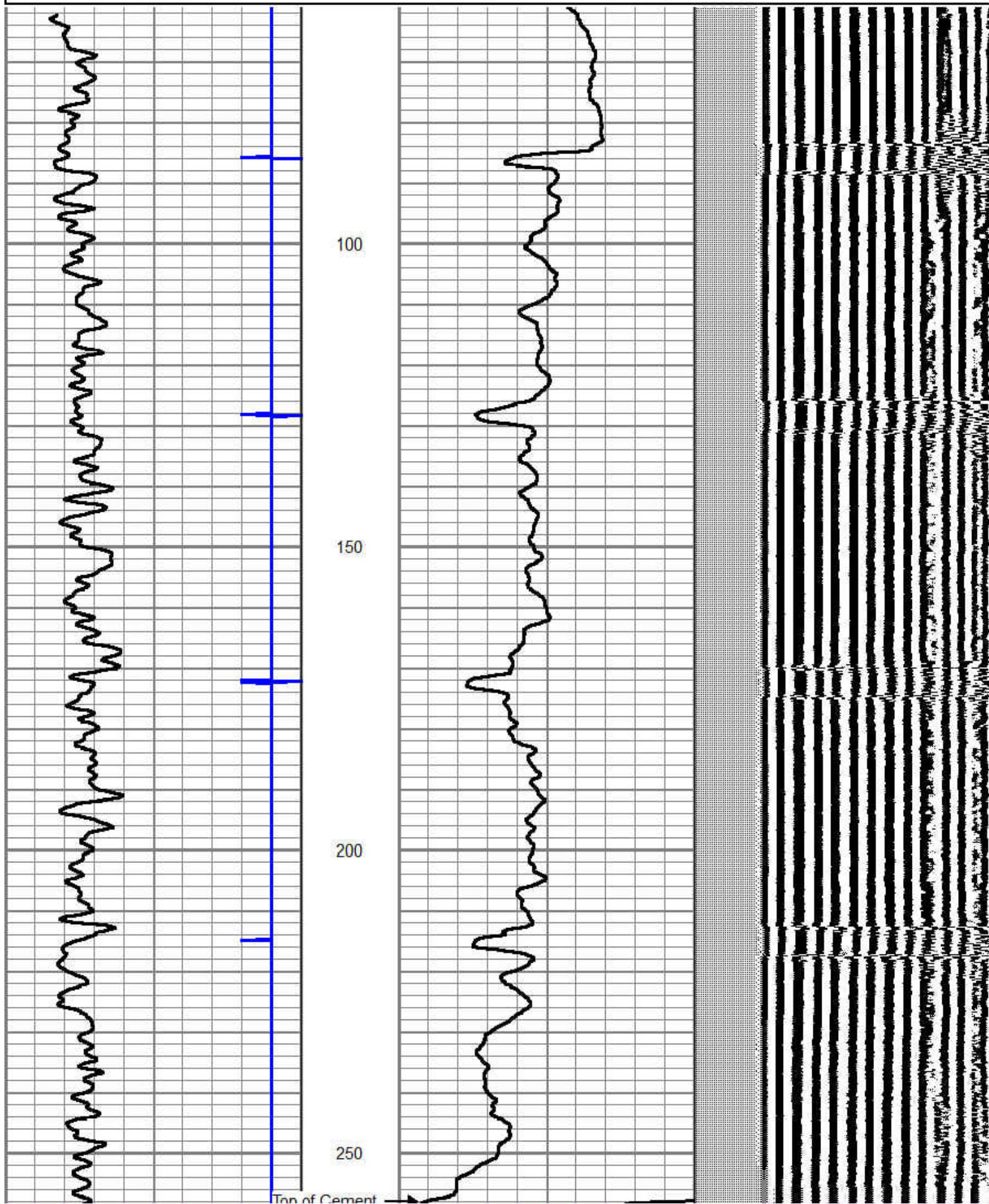




9	Collar Locator	-1
0	Gamma Ray (GAPI)	200

0	AMP AMPLITUDE (mV)	10
0	AMPLITUDE (mV)	100

200 VDL 1200





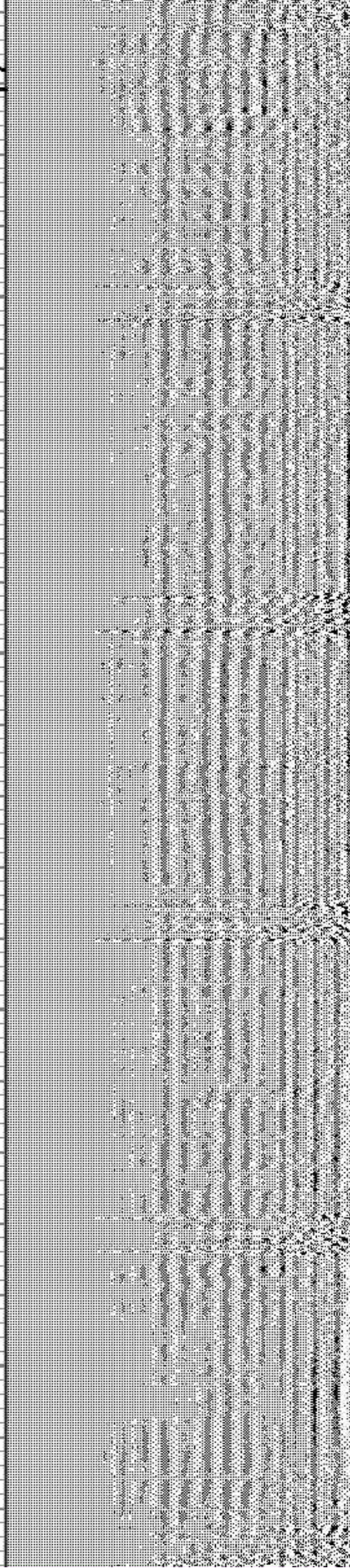
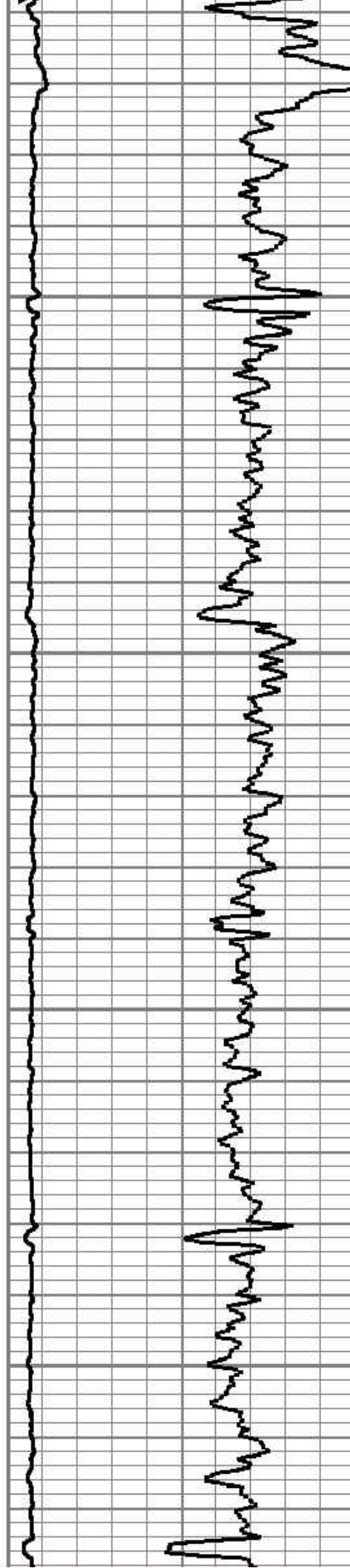


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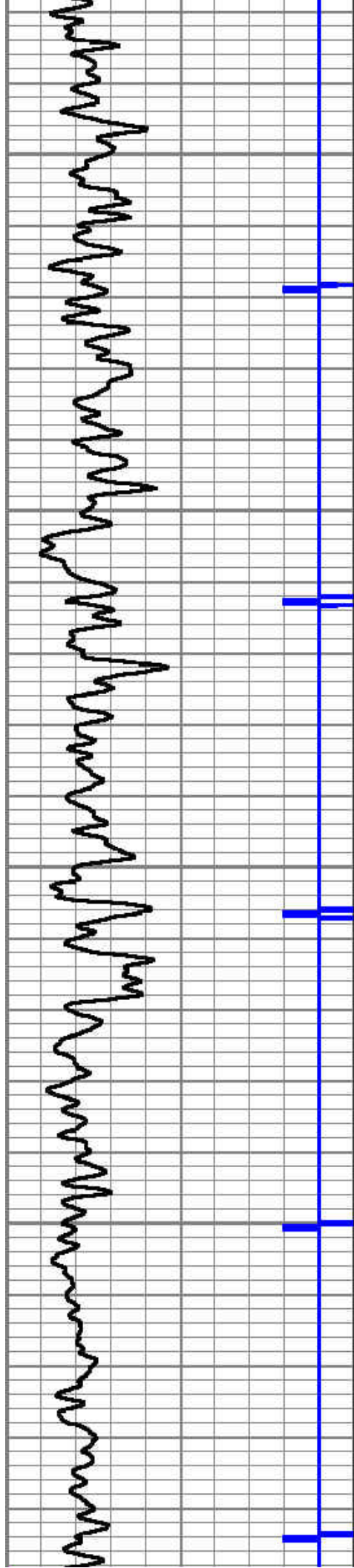
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400

450





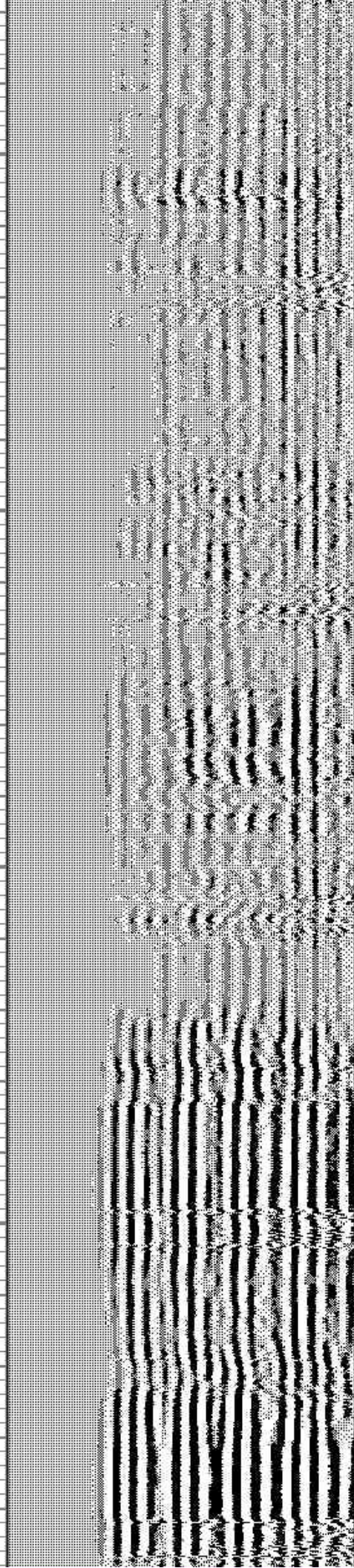


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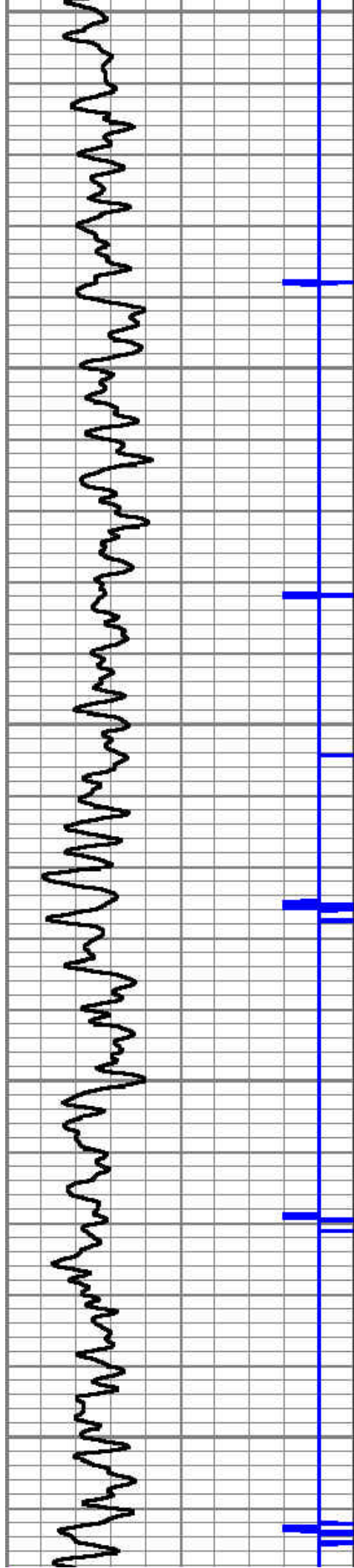
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600

650







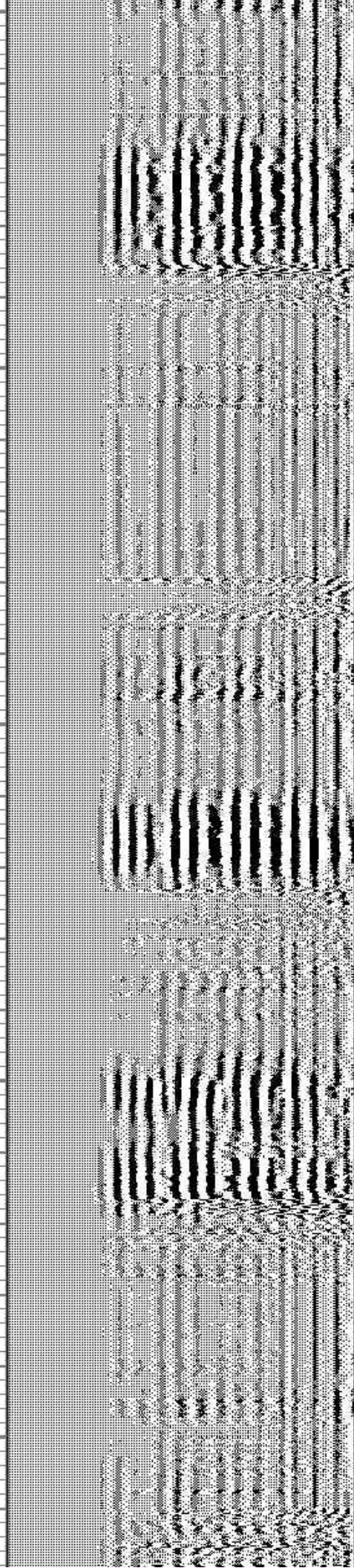
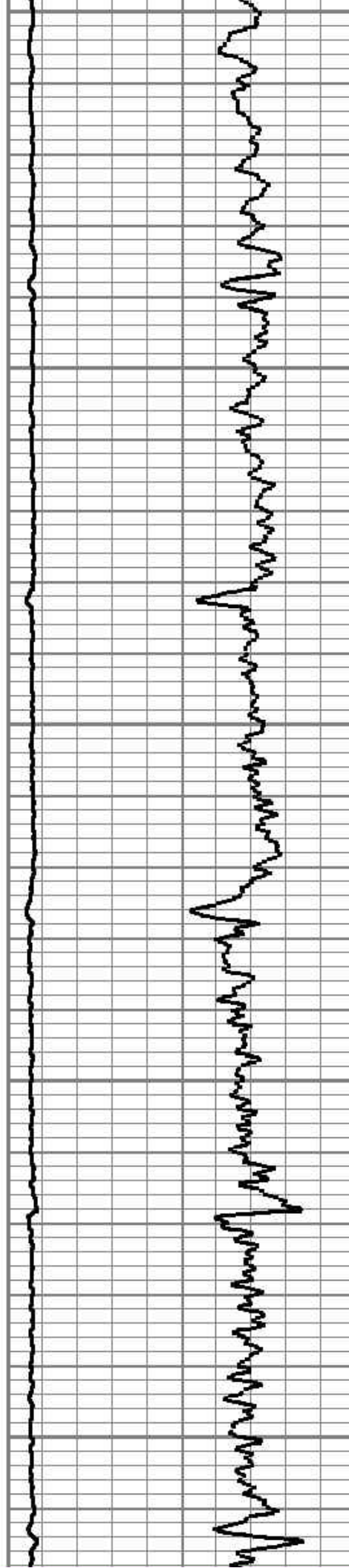
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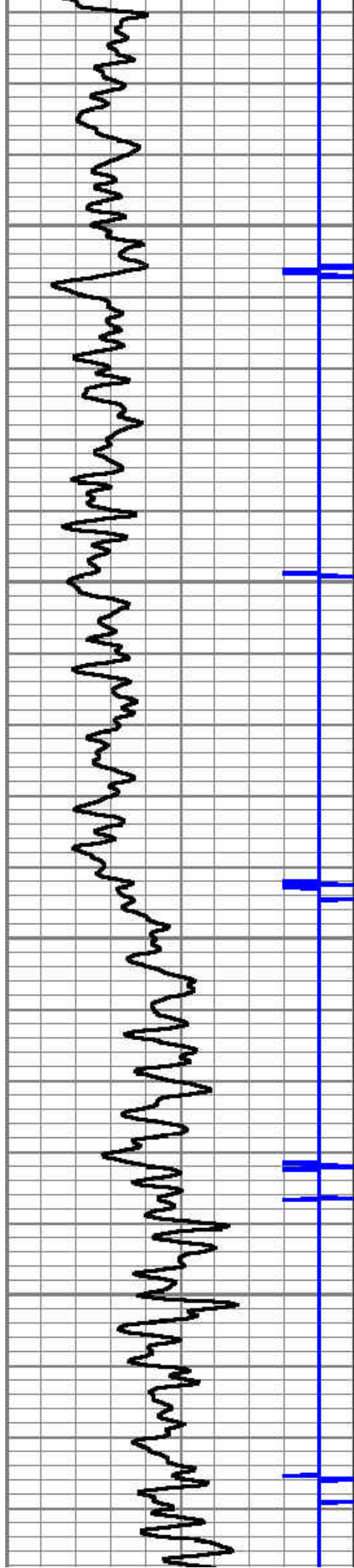
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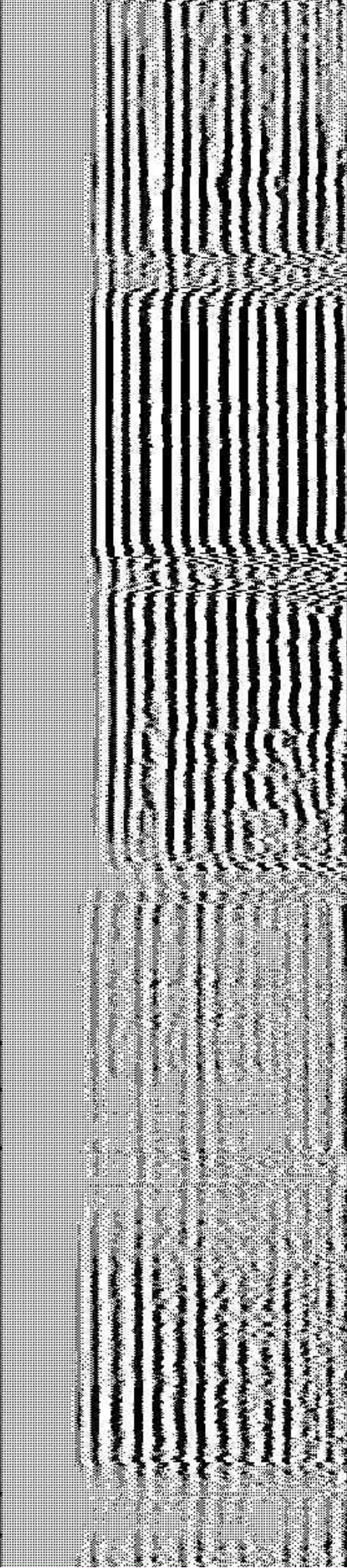
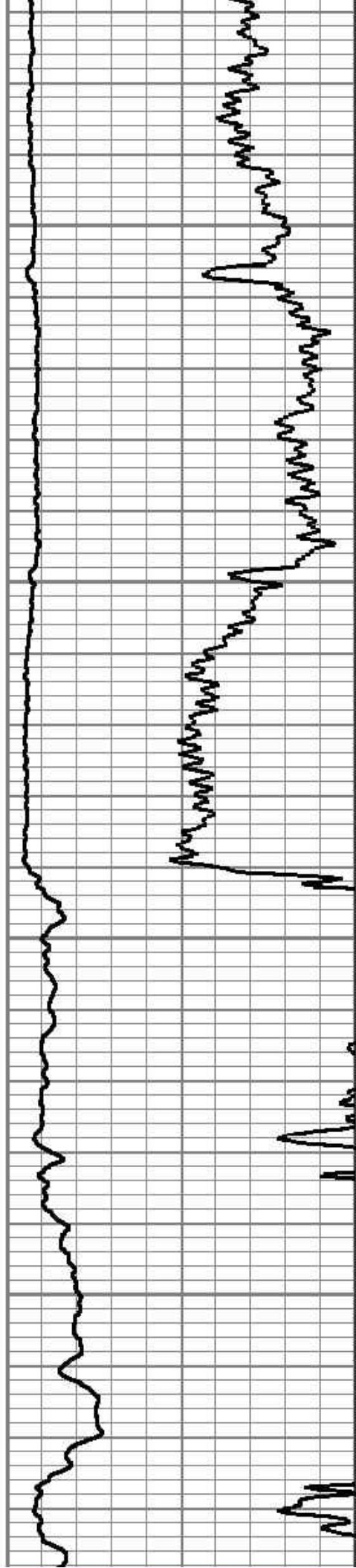


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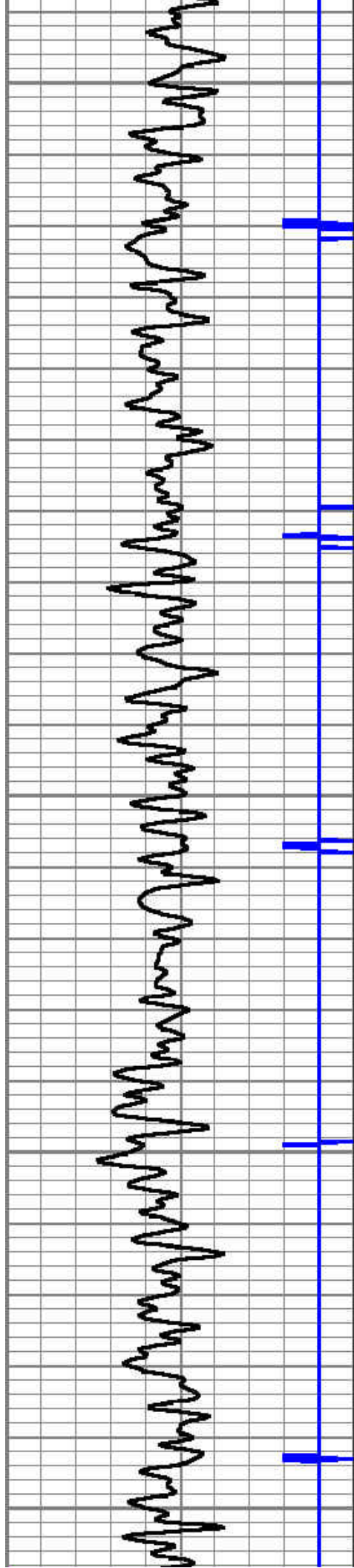
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1050

1100







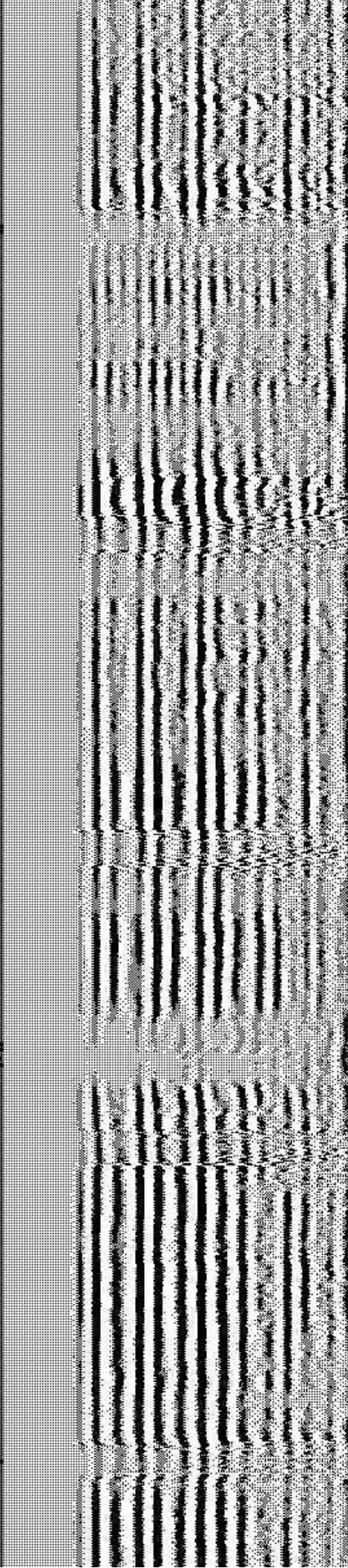
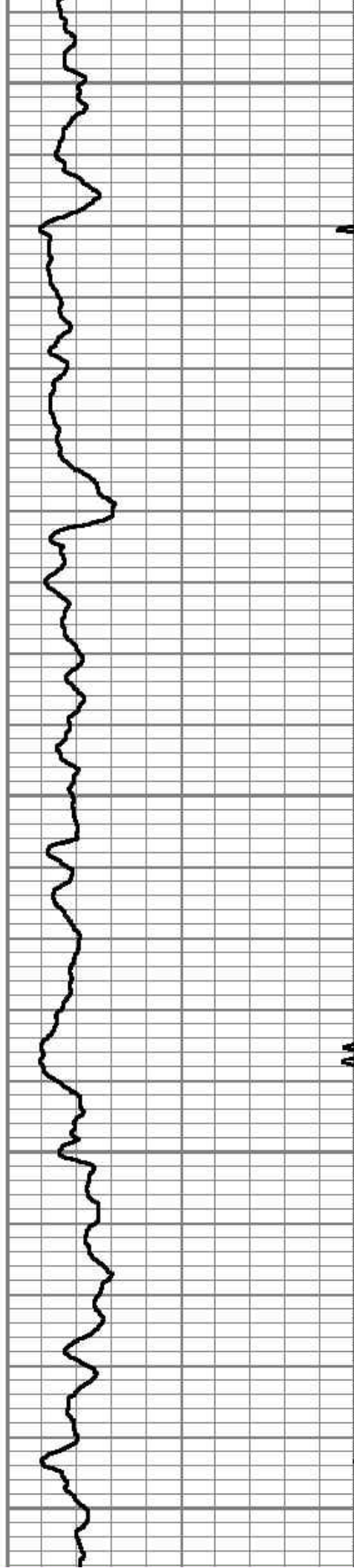
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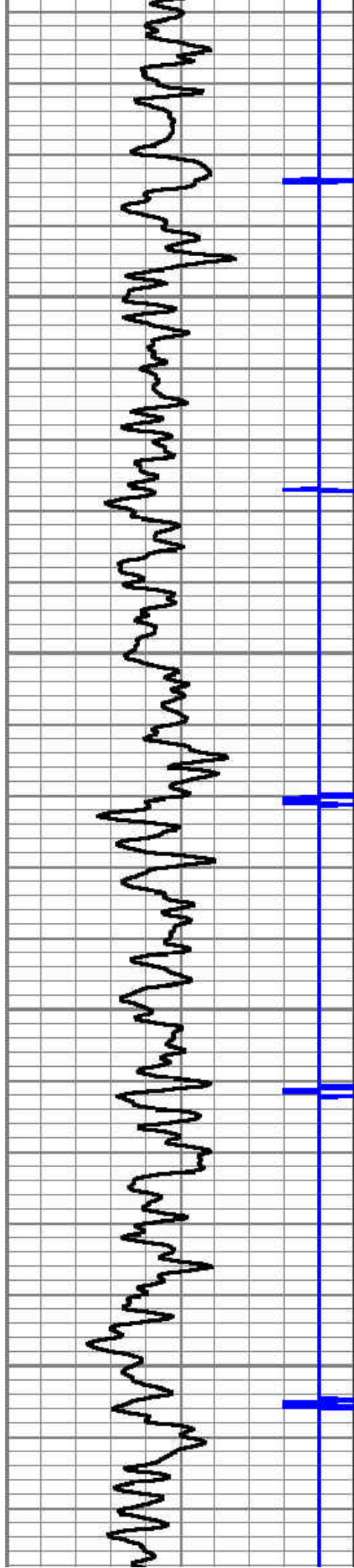
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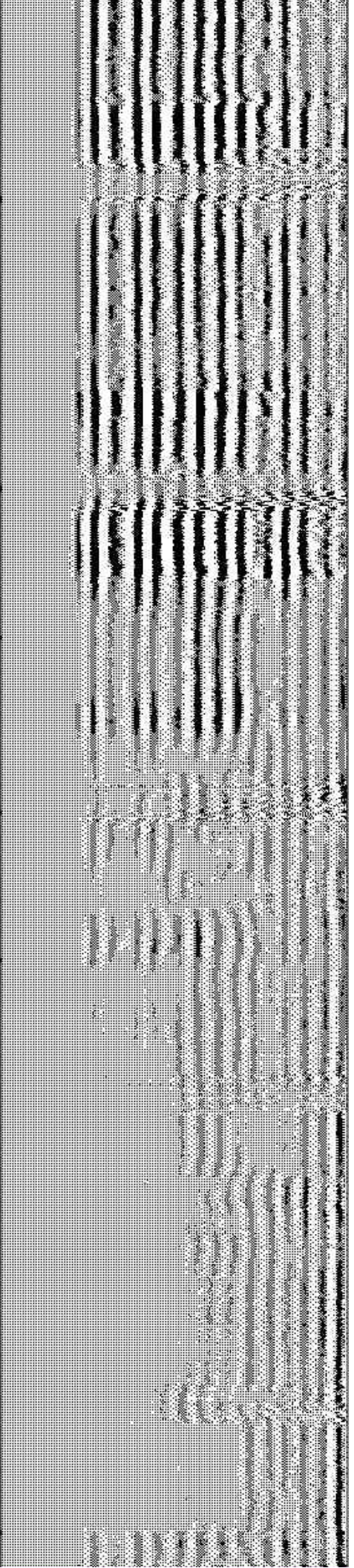
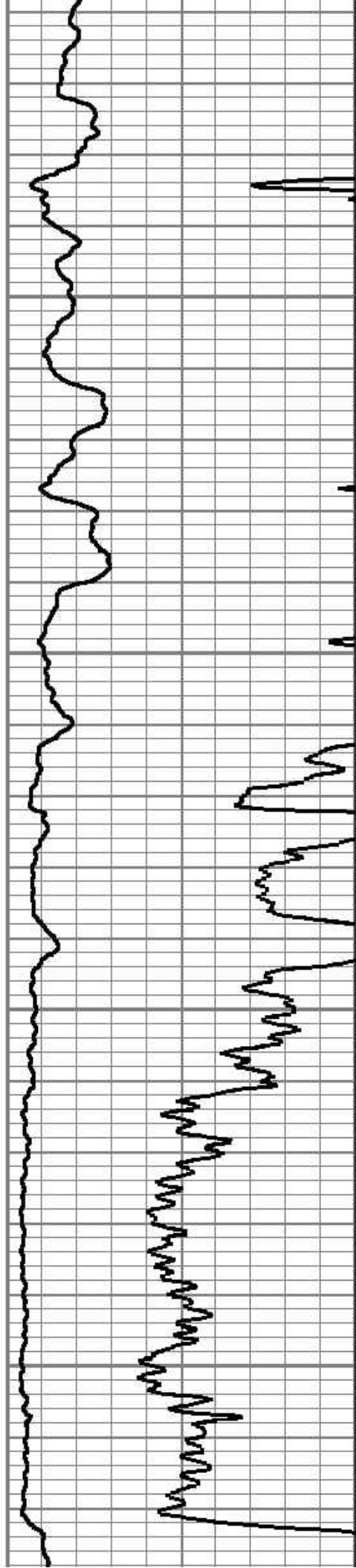


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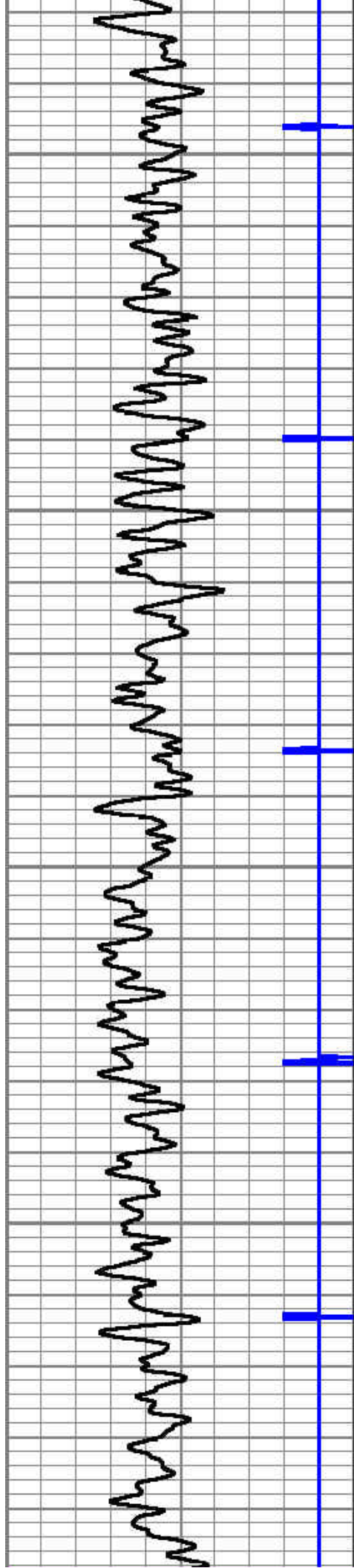
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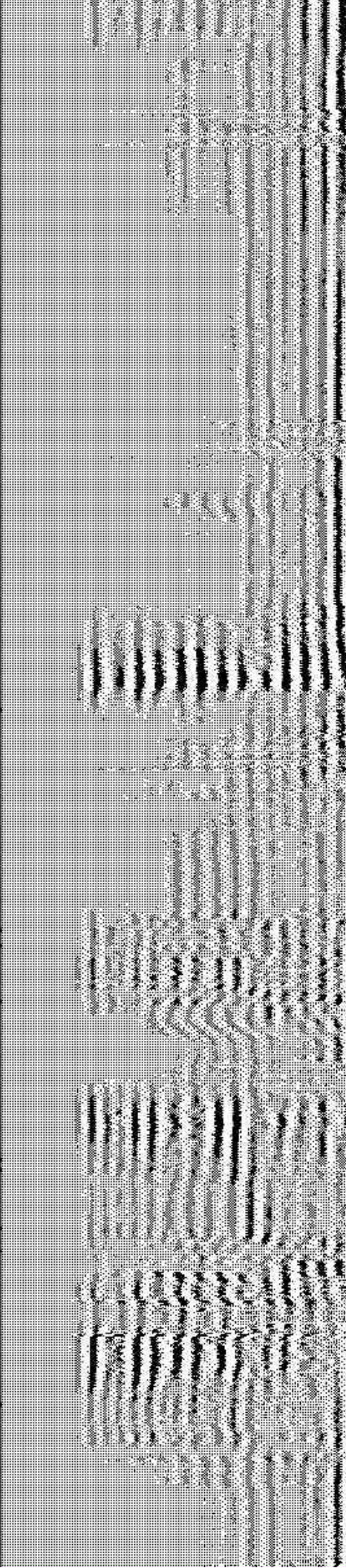
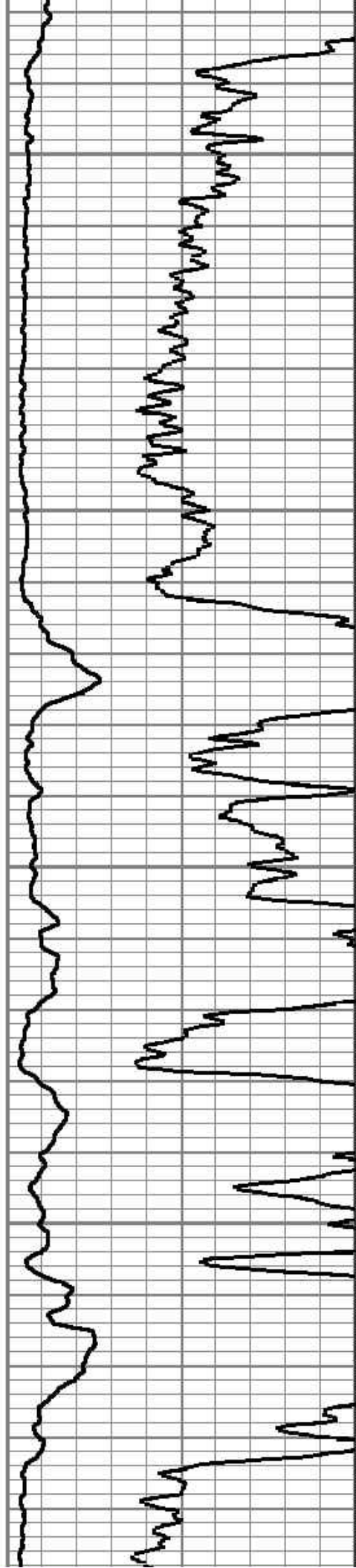


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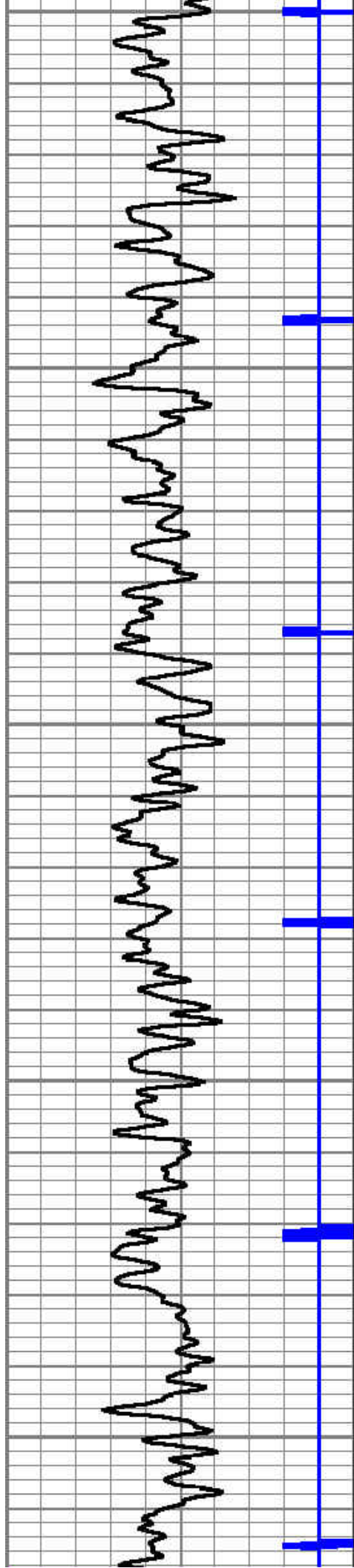
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1750







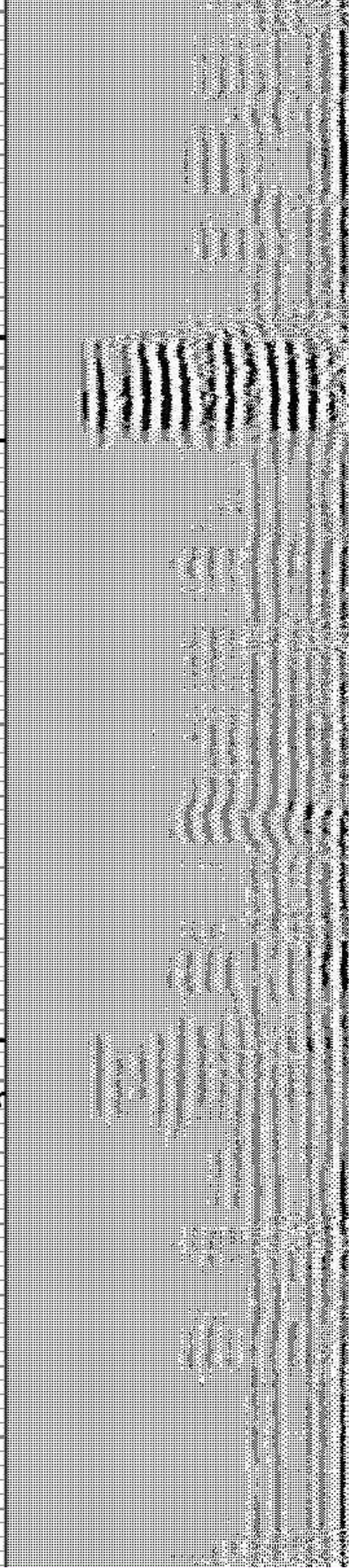
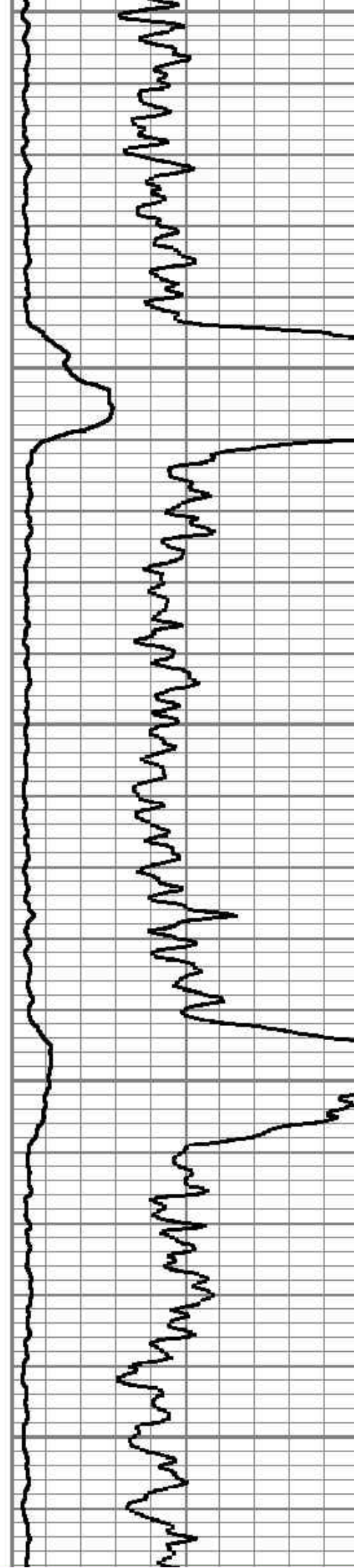
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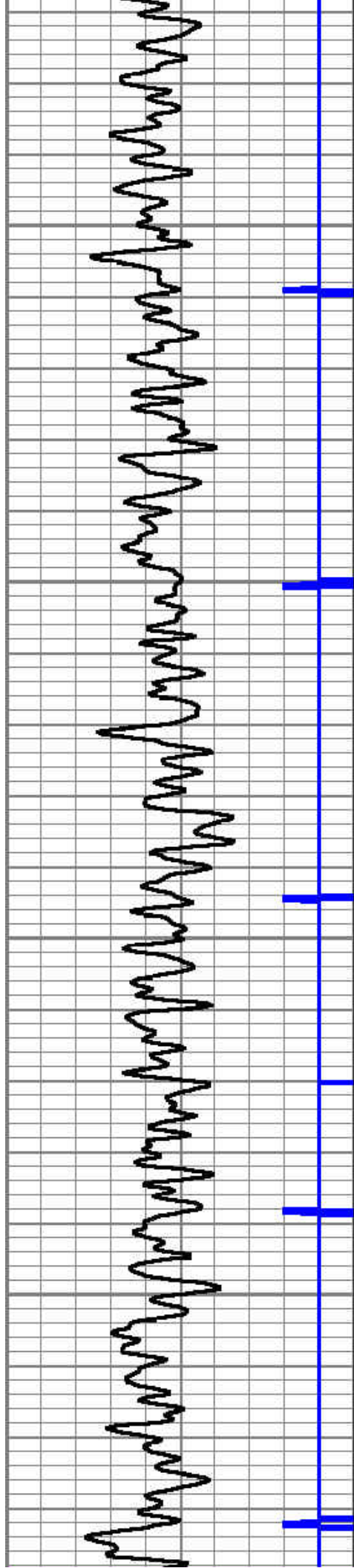
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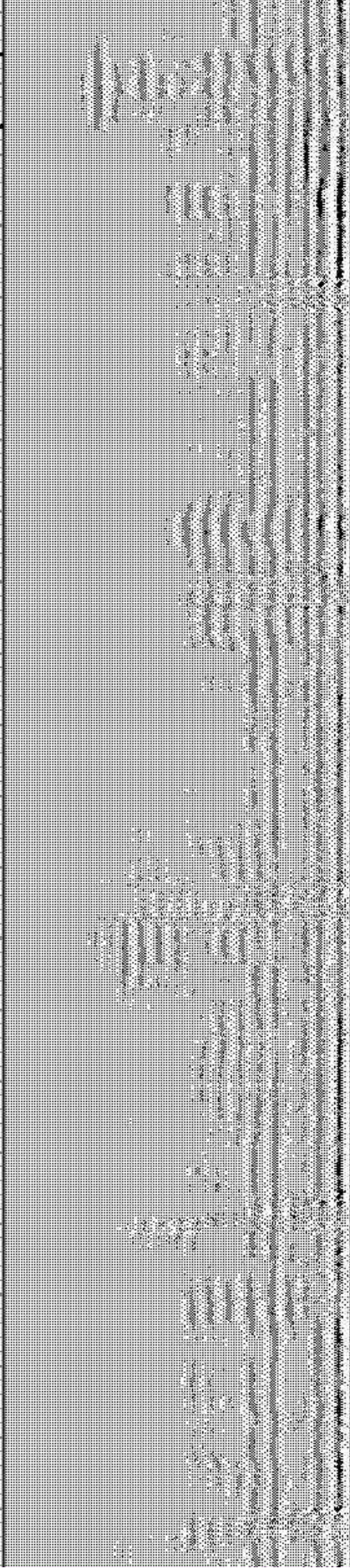
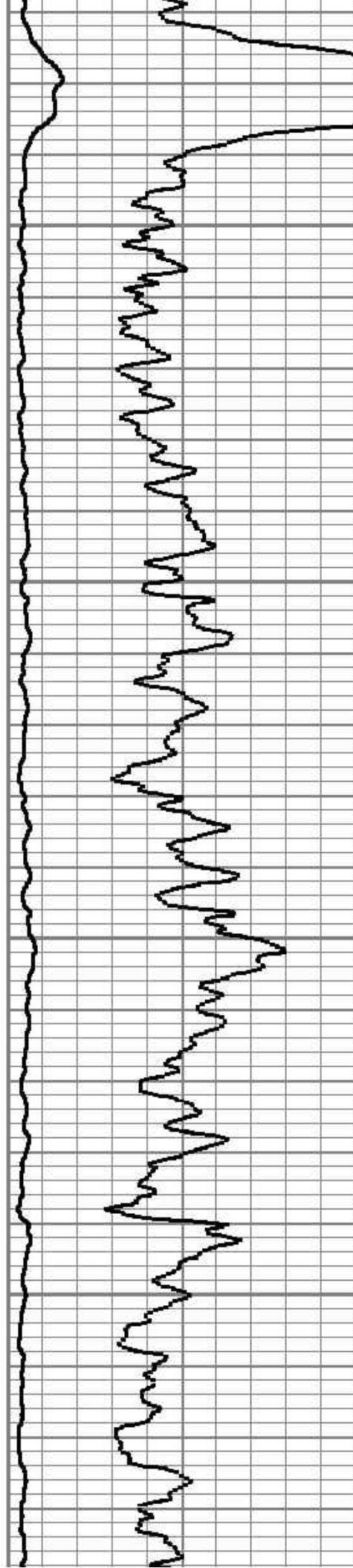


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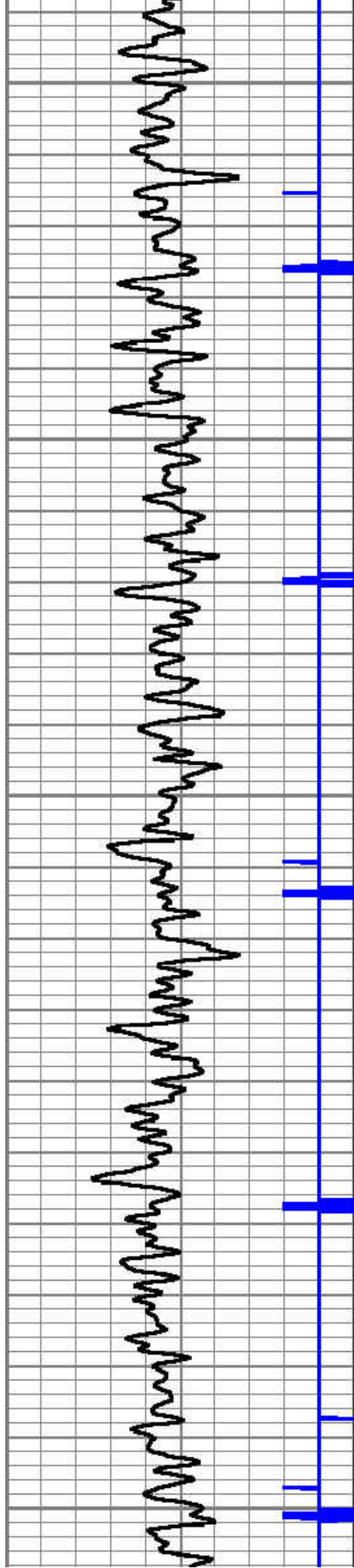
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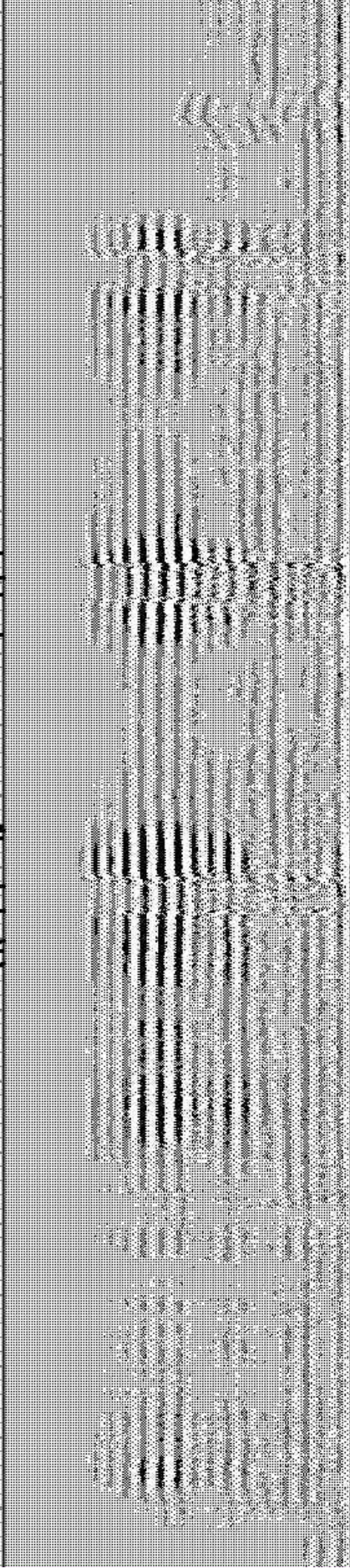
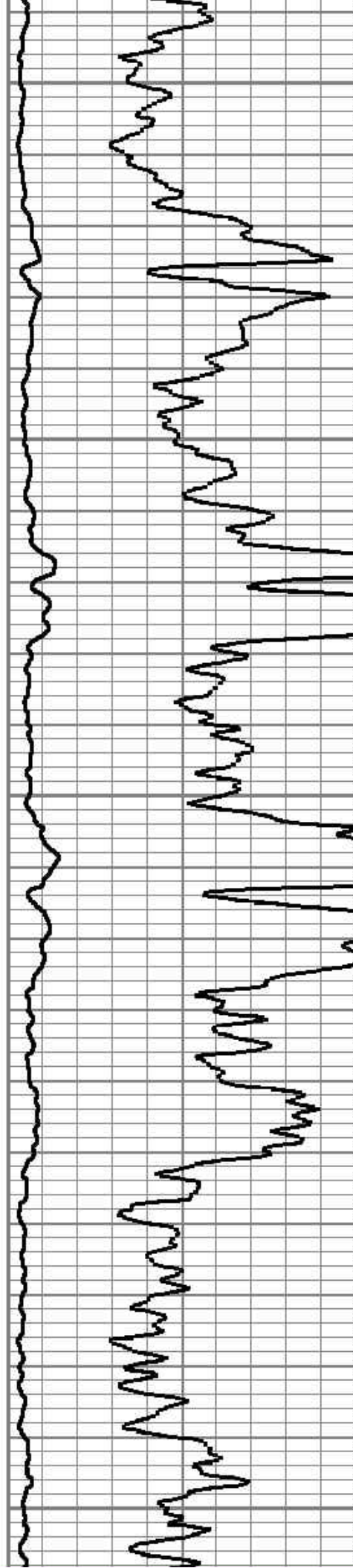
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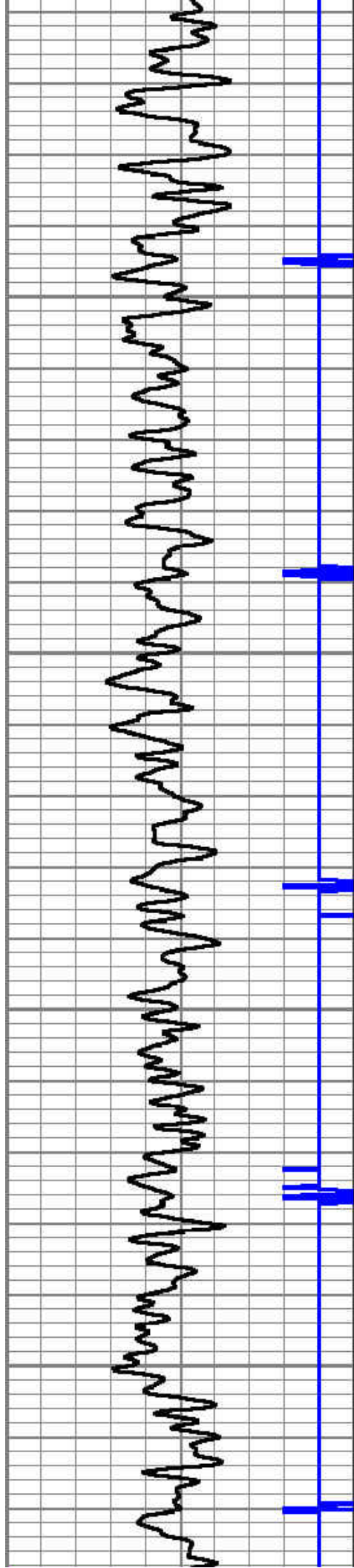
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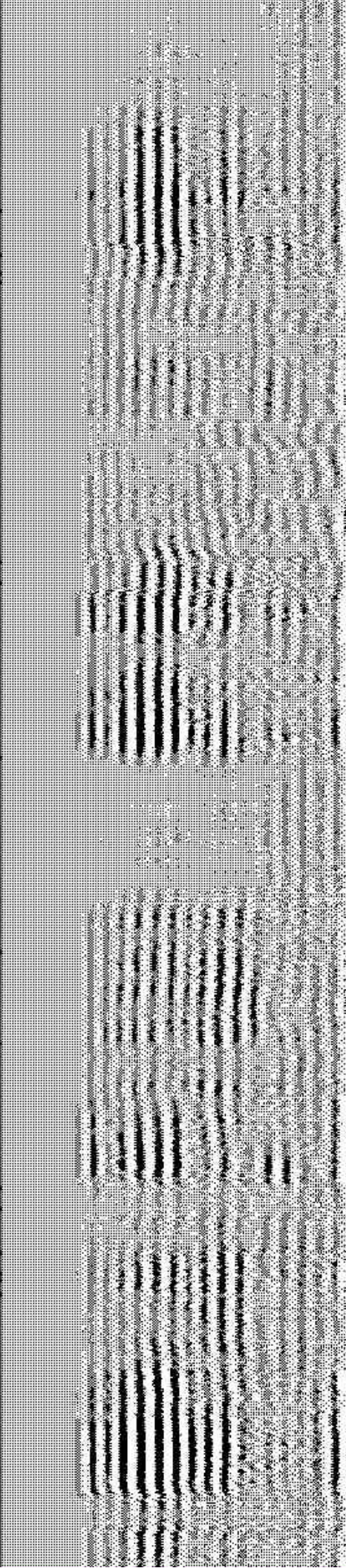
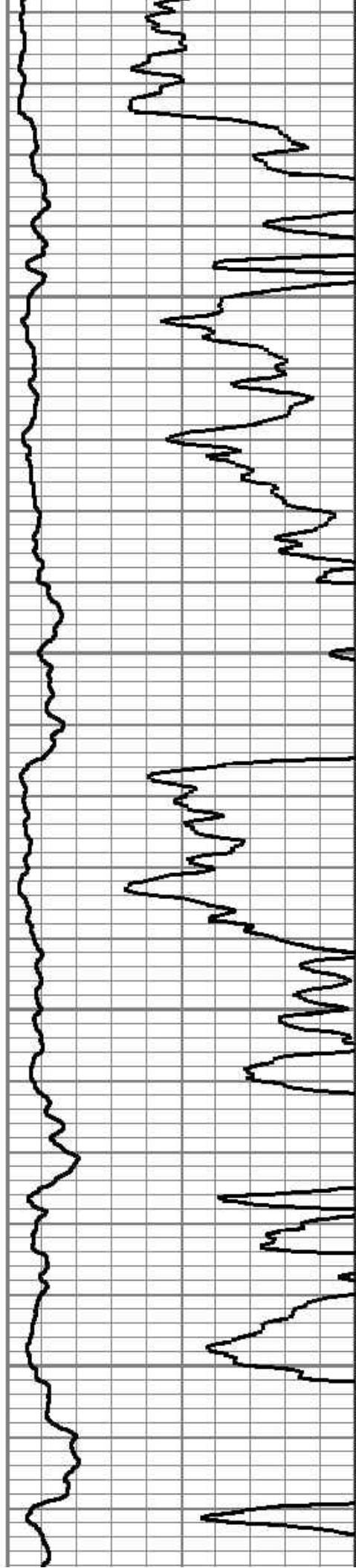


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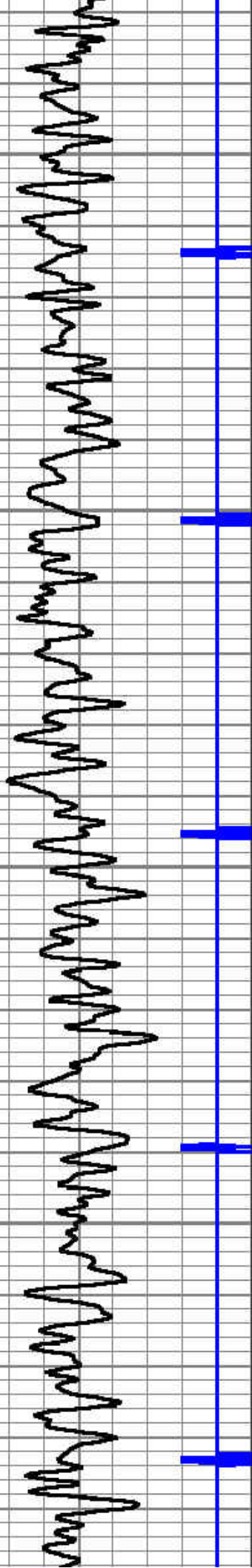
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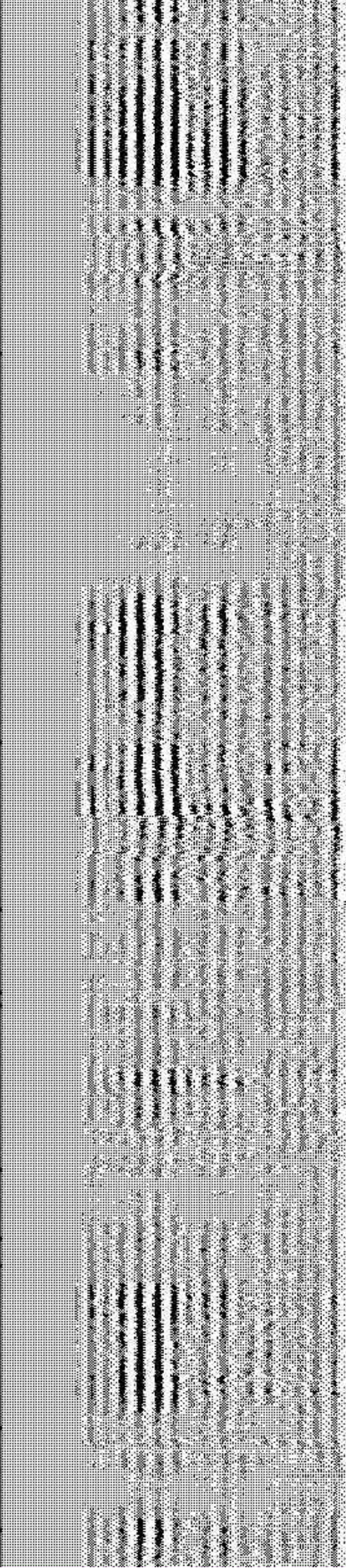
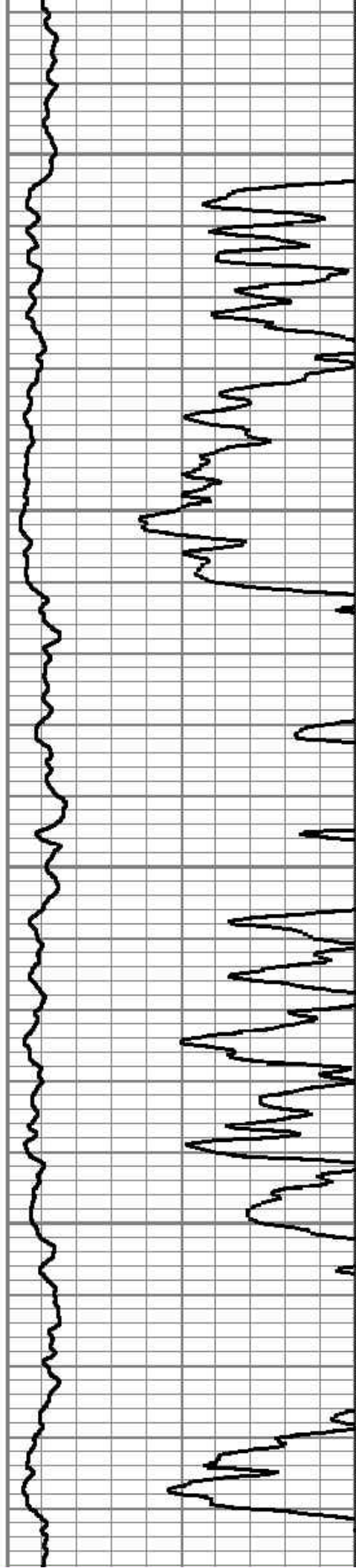


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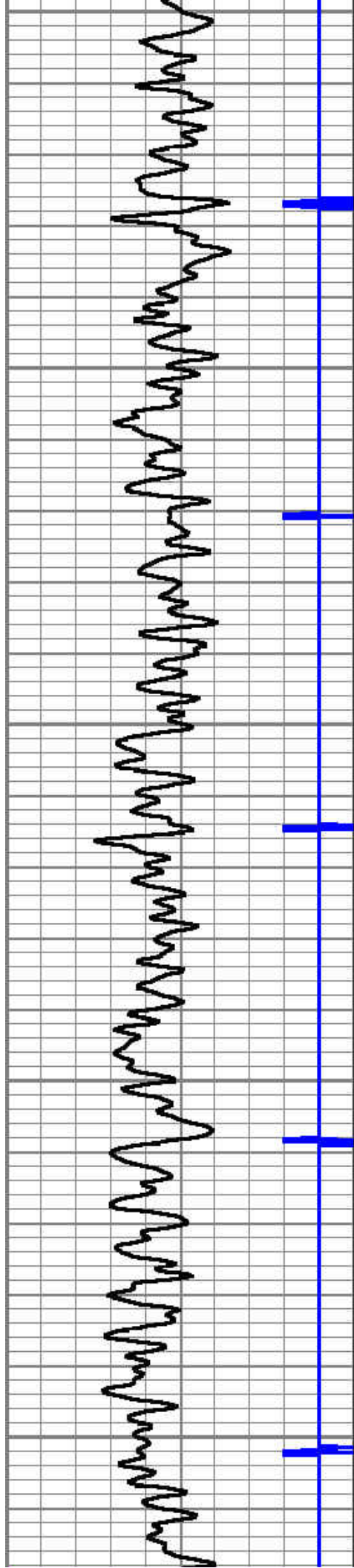
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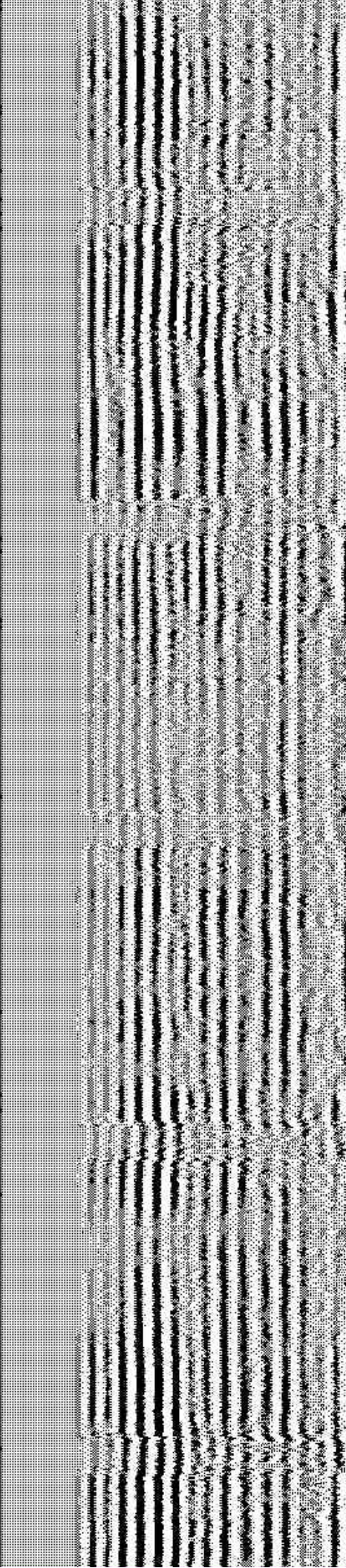
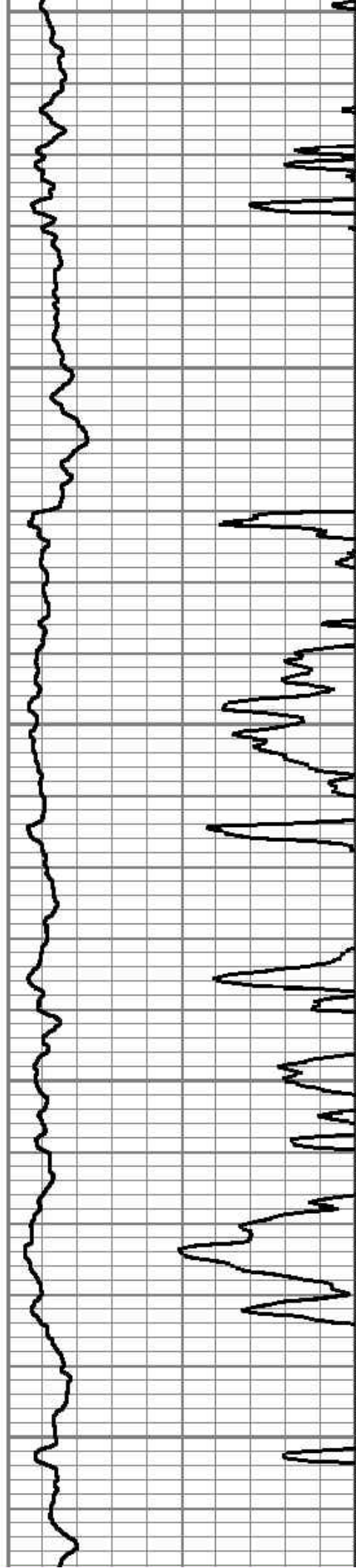
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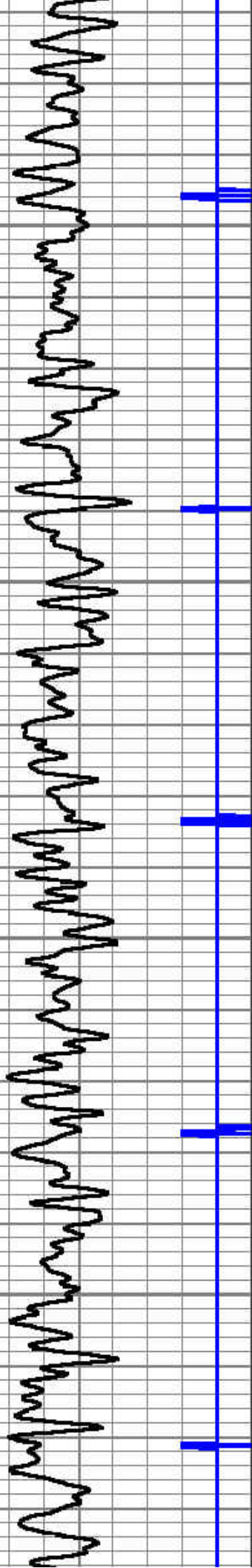
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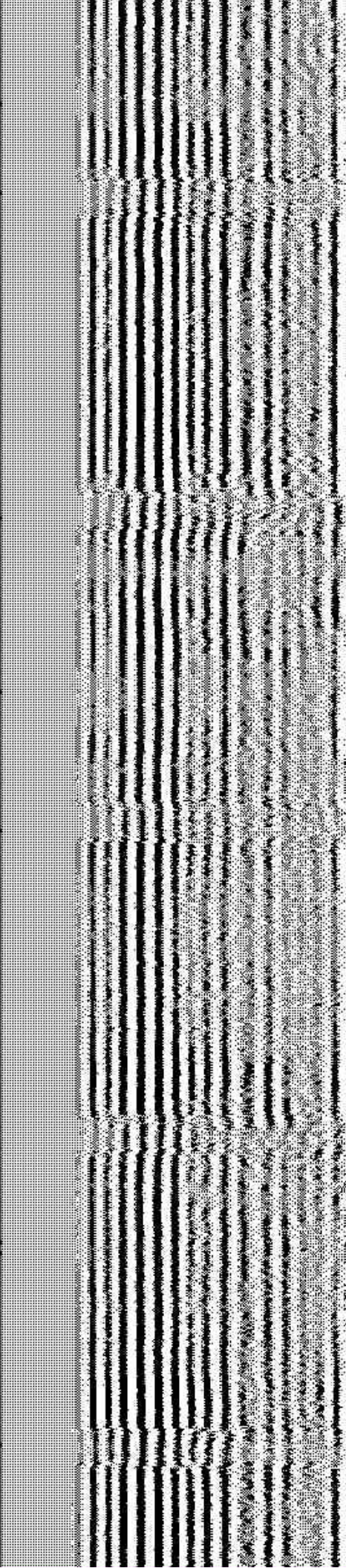
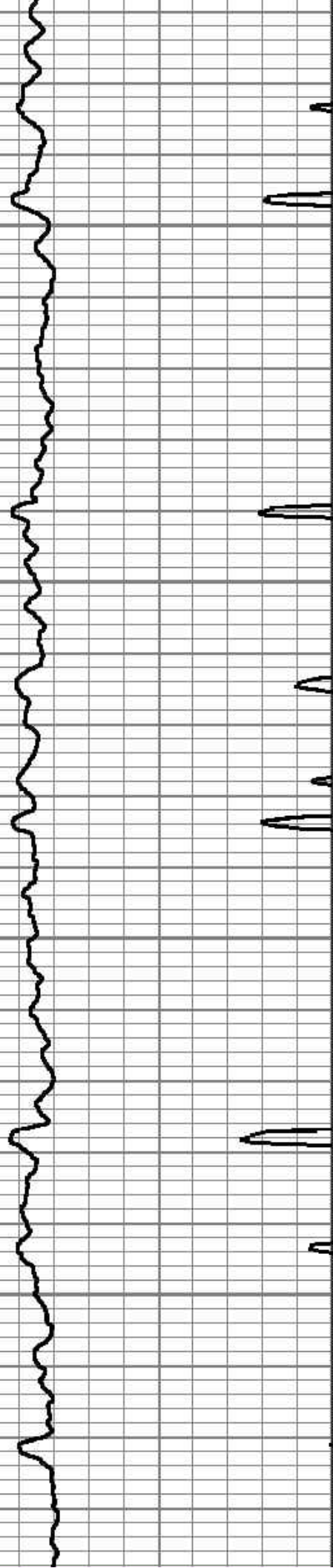


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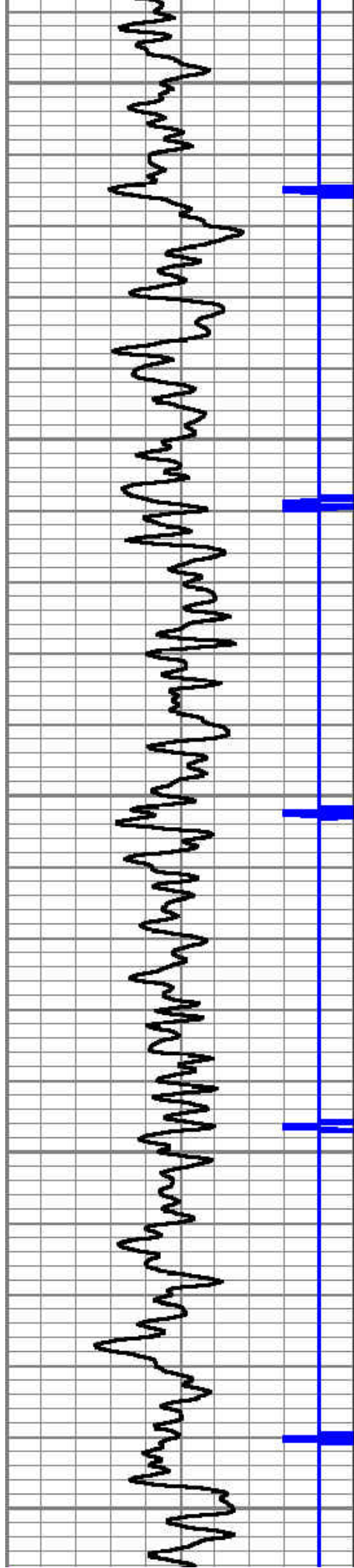
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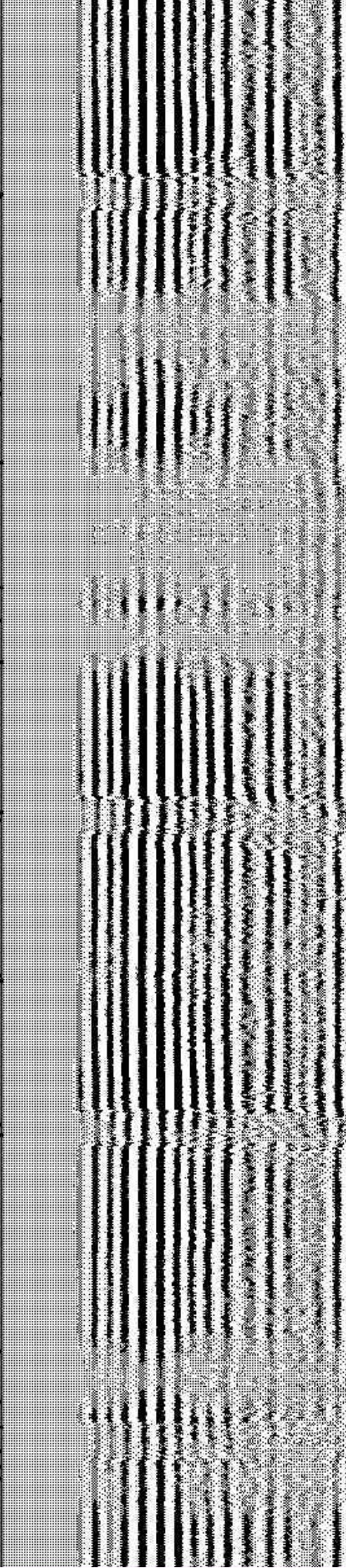
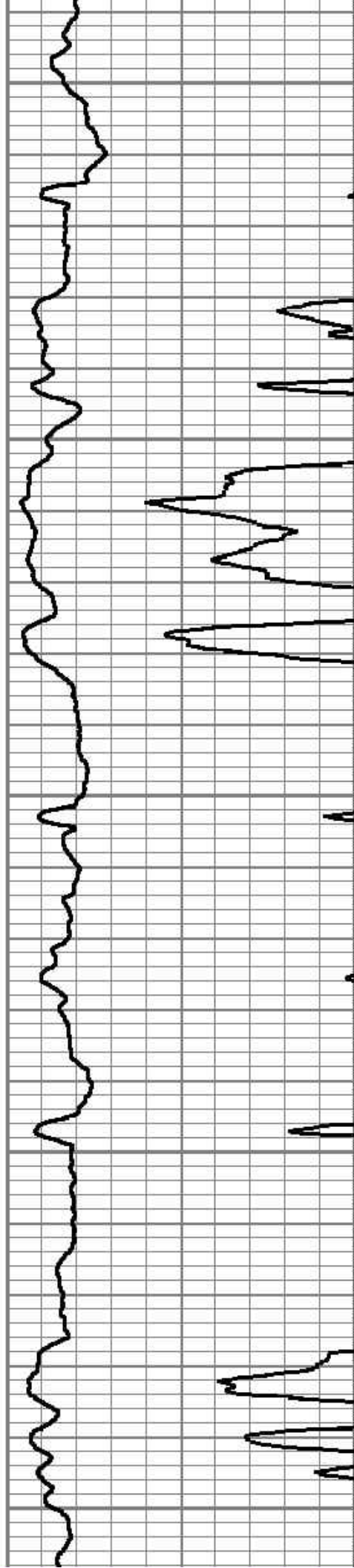
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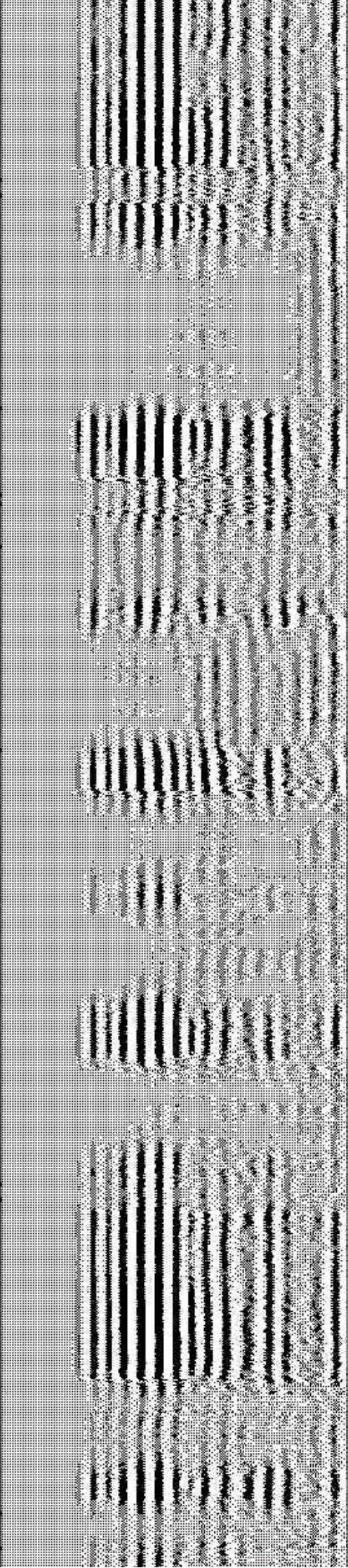
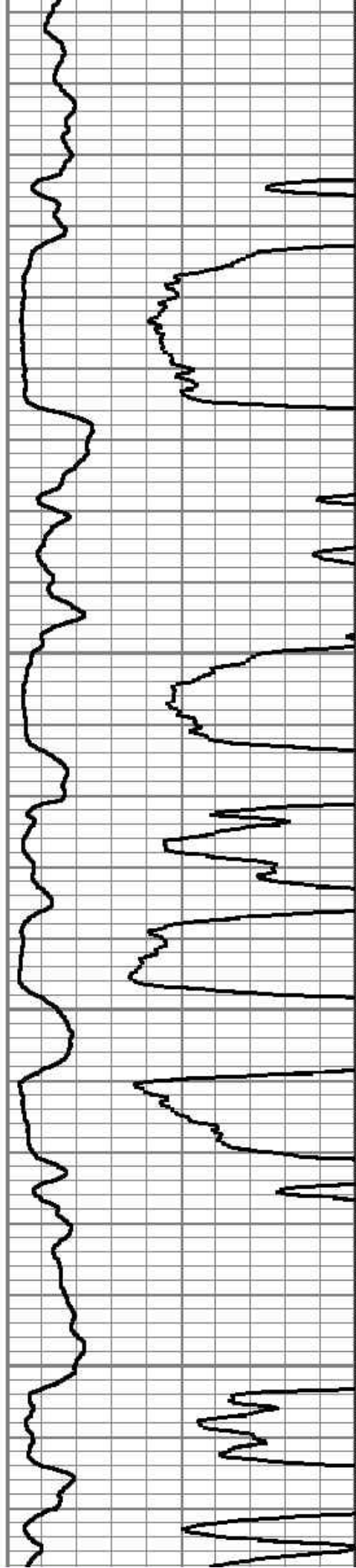


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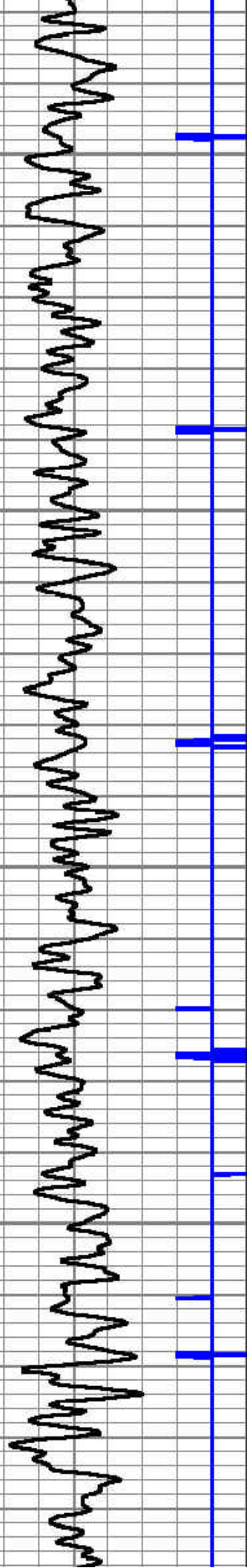
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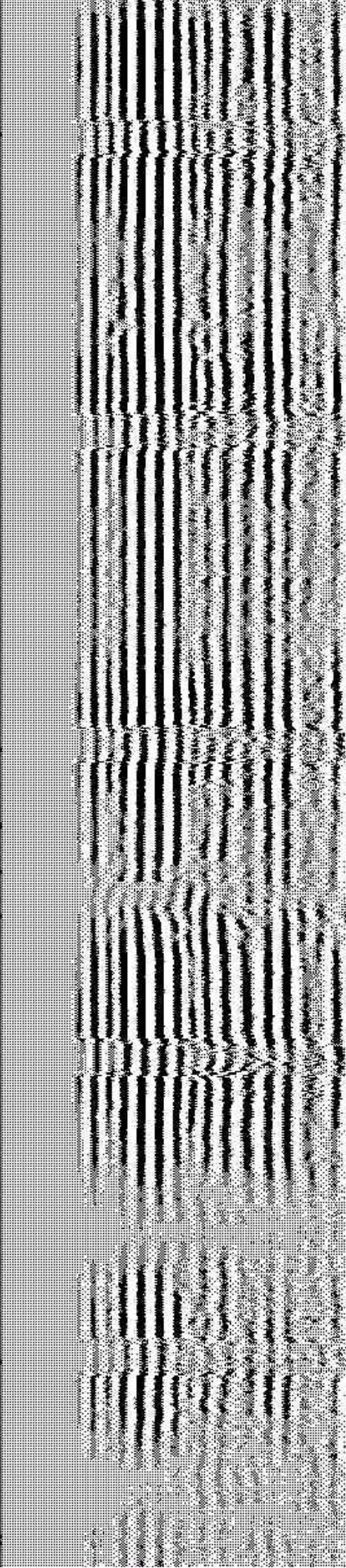
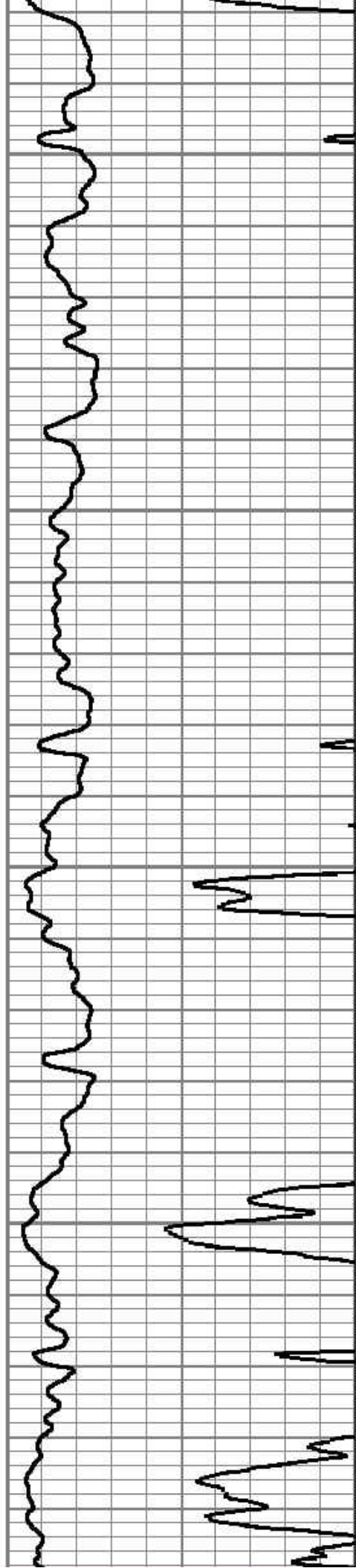


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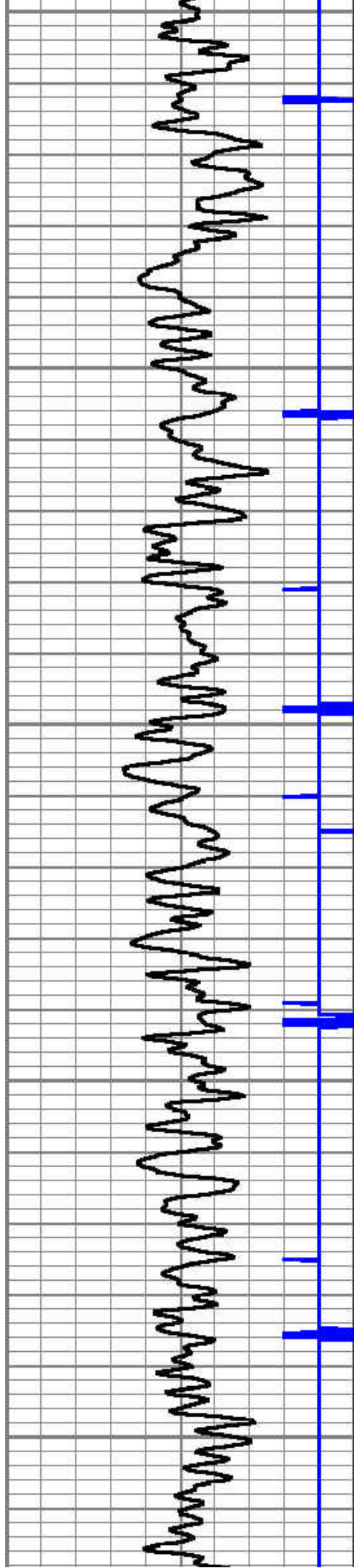
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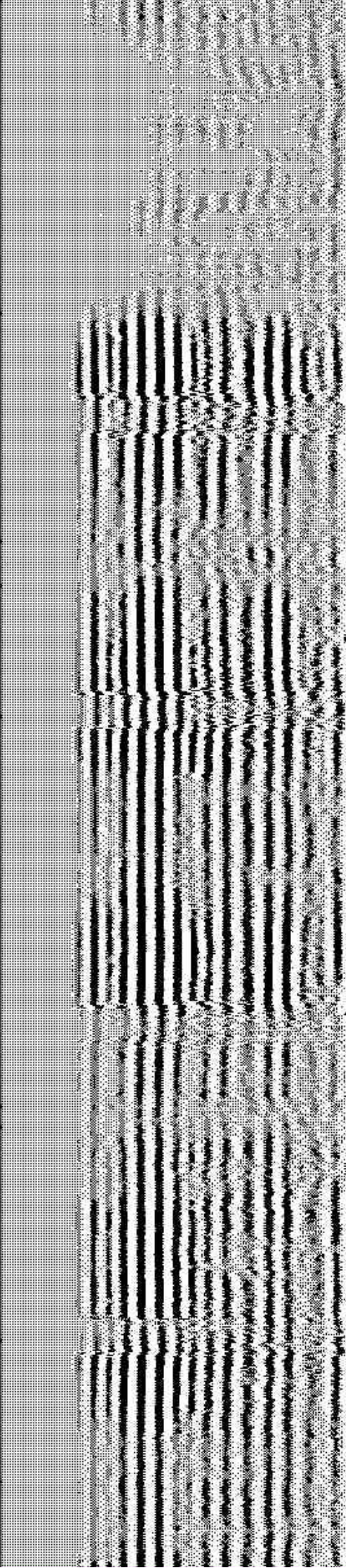
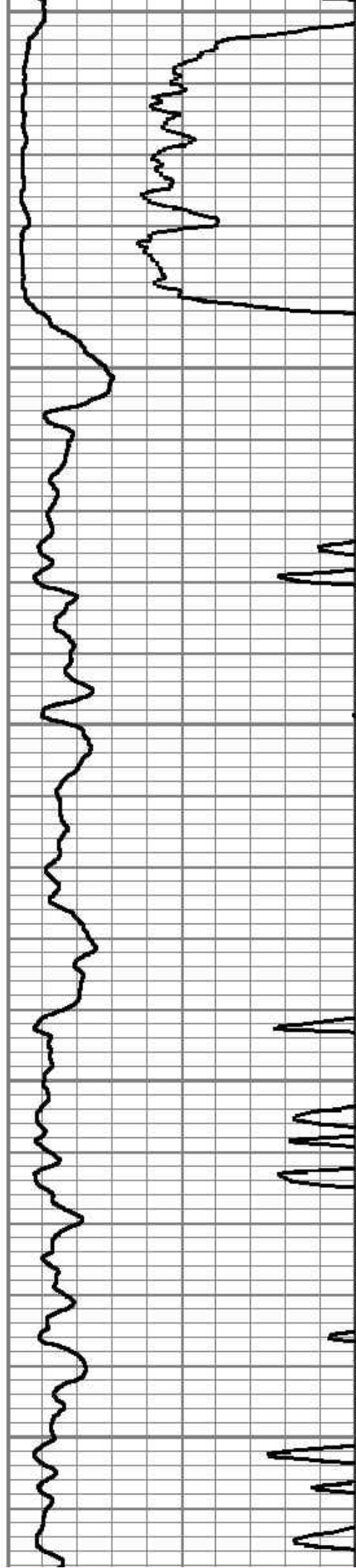
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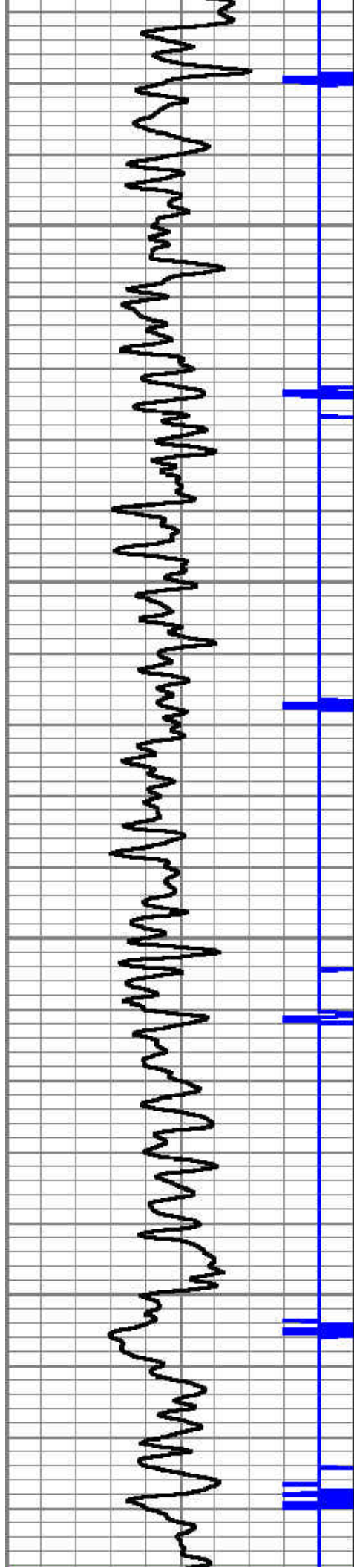
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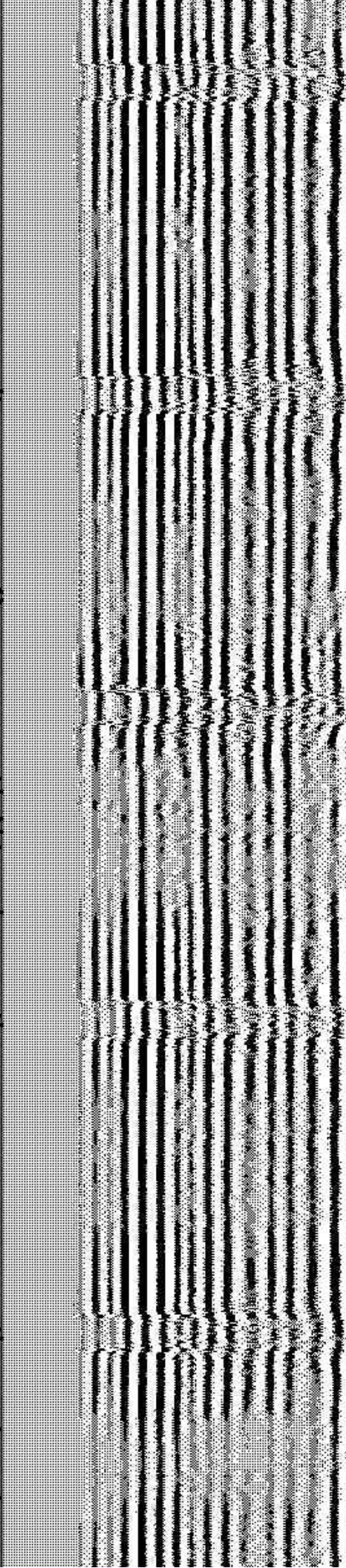
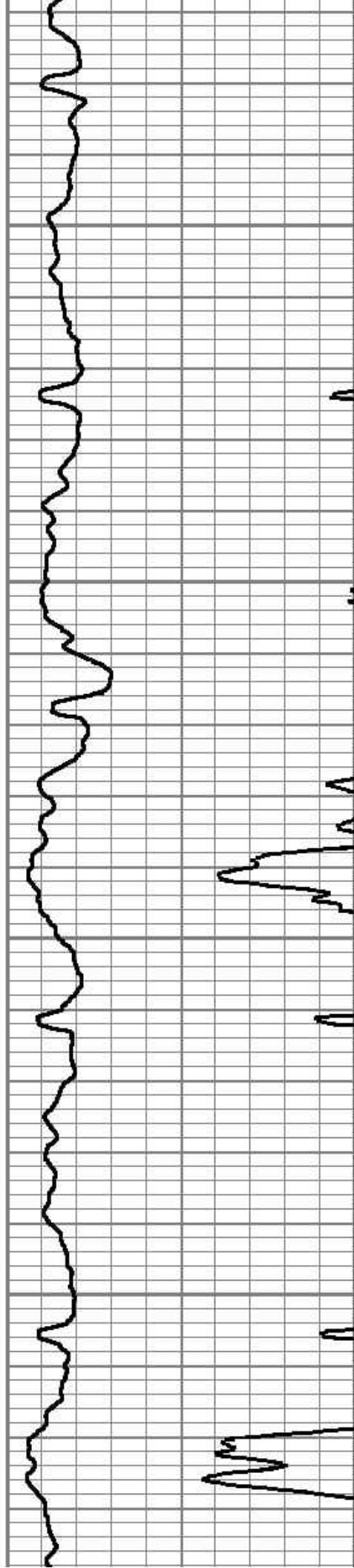


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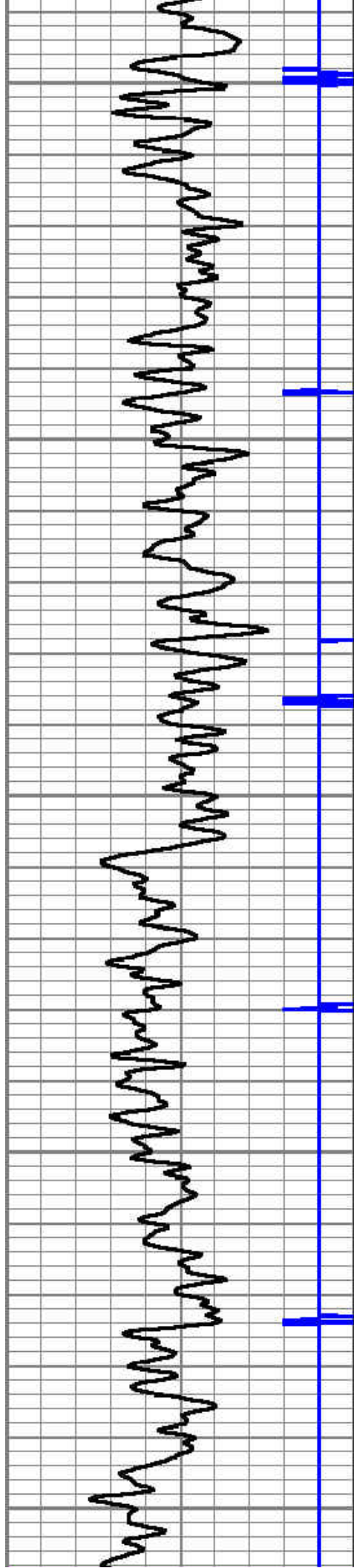
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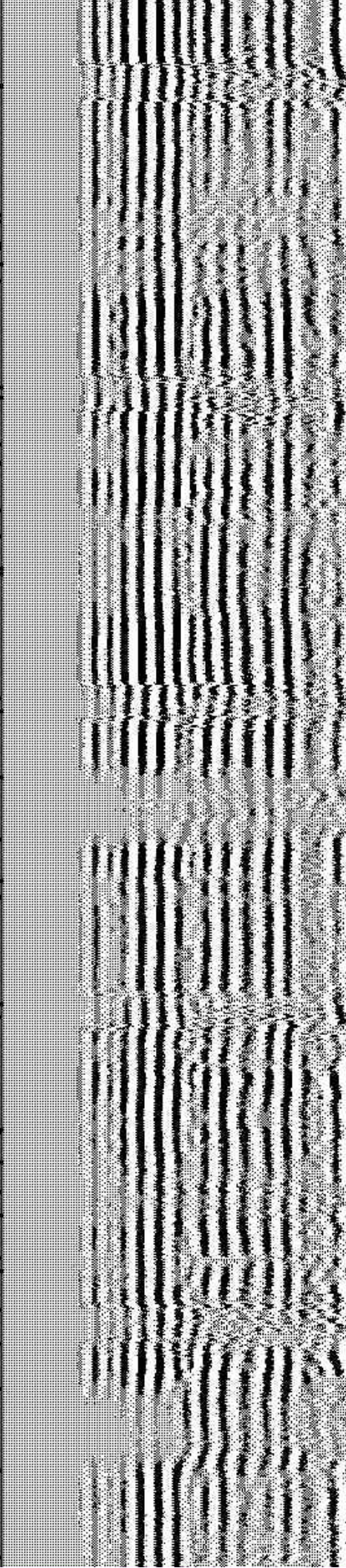
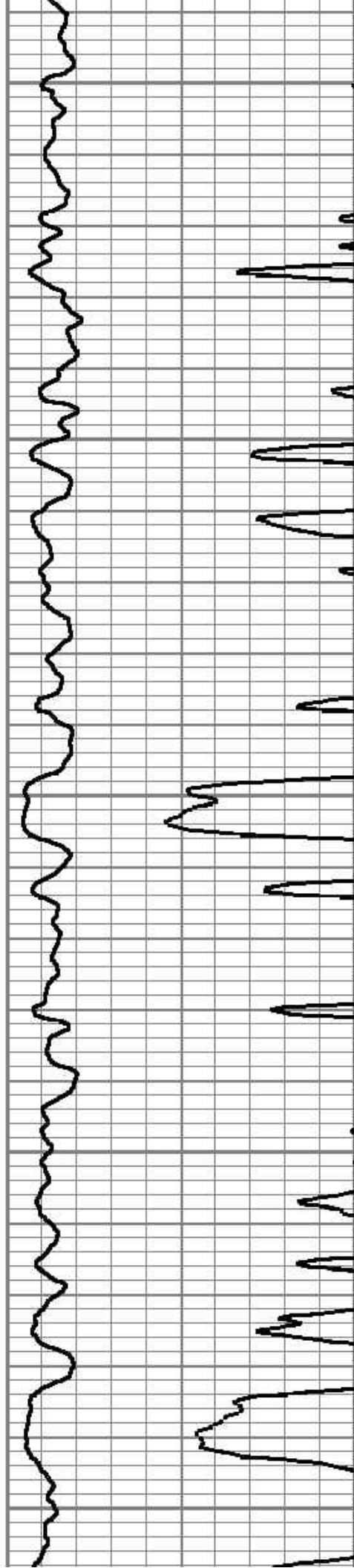
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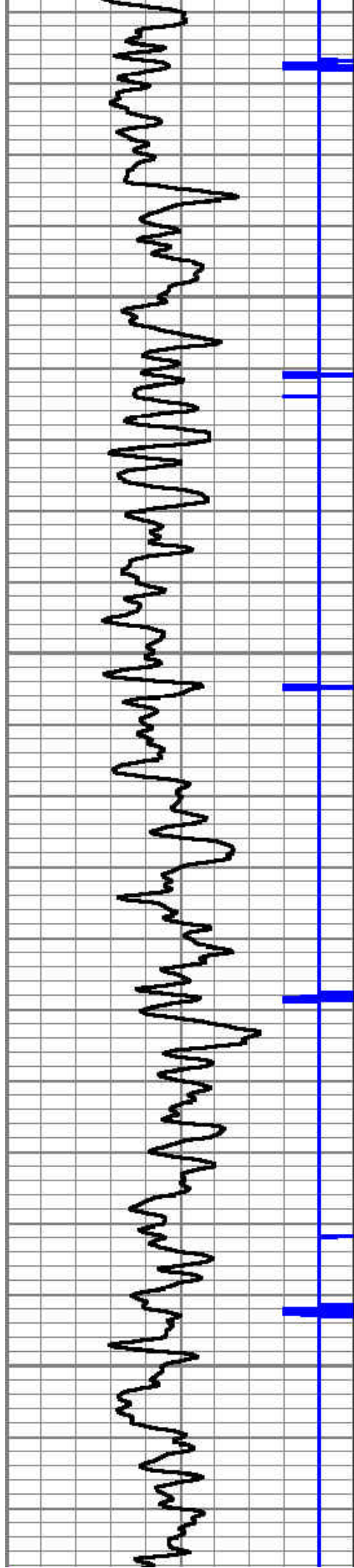
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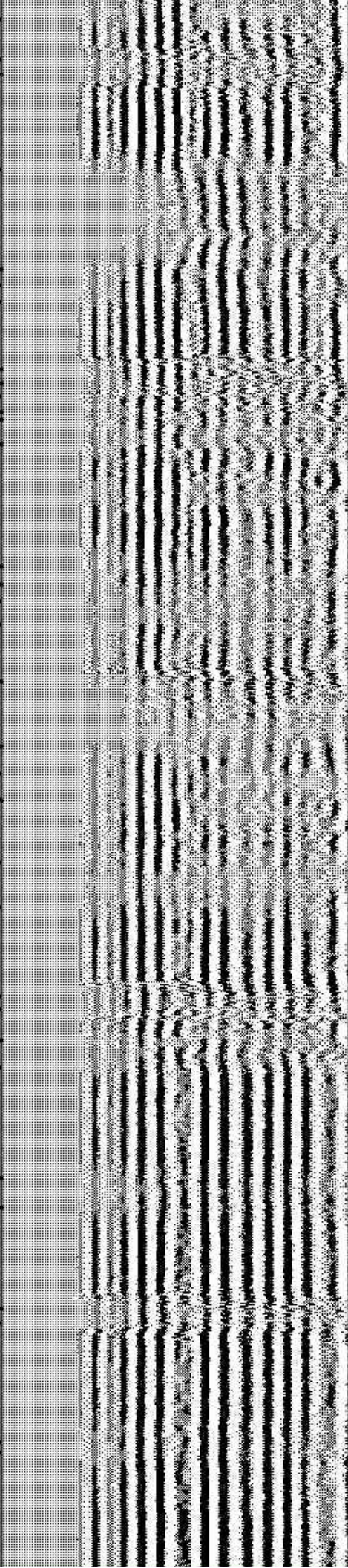
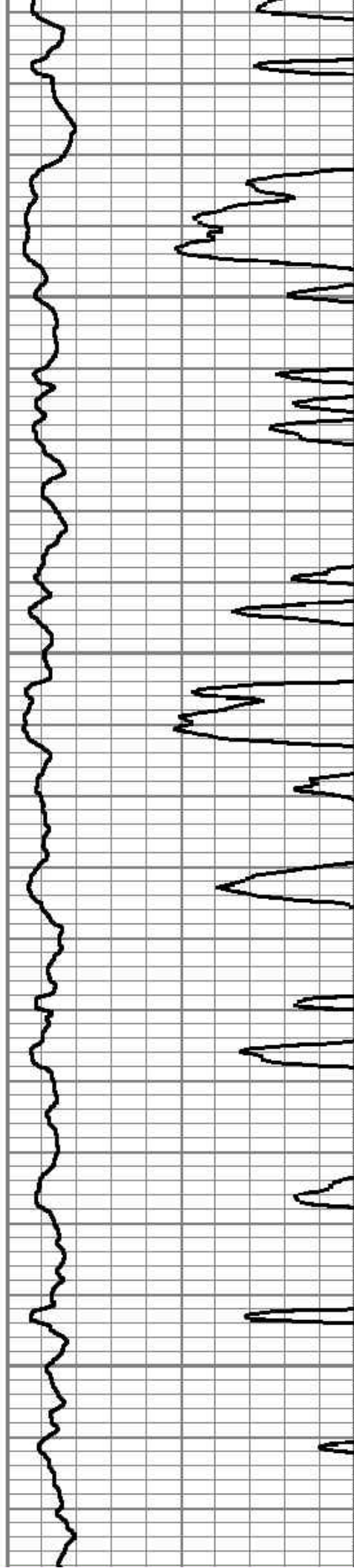


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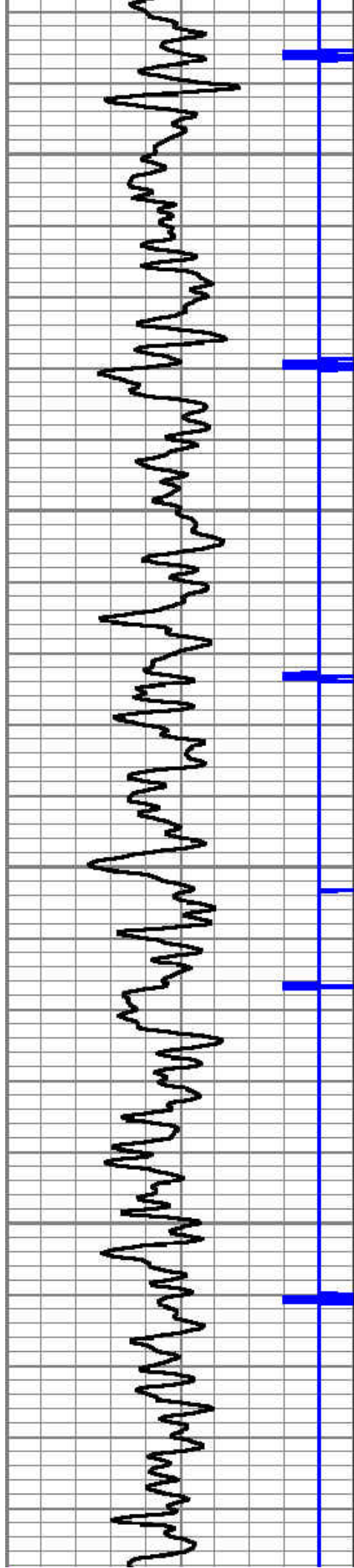
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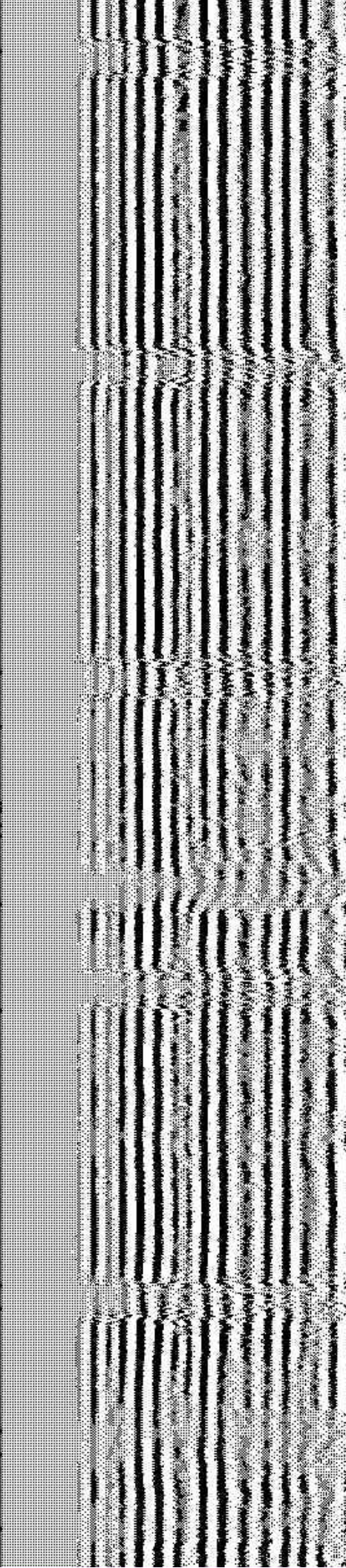
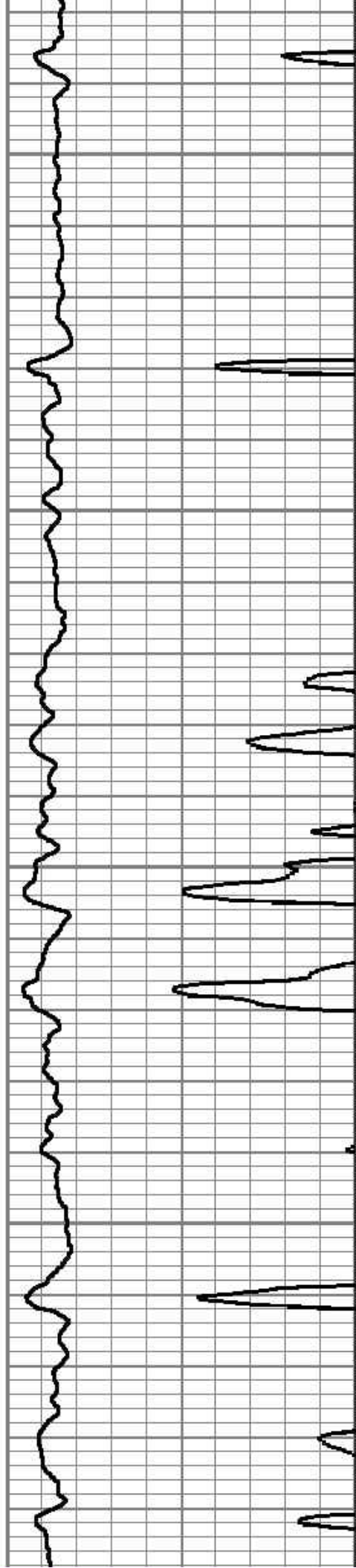


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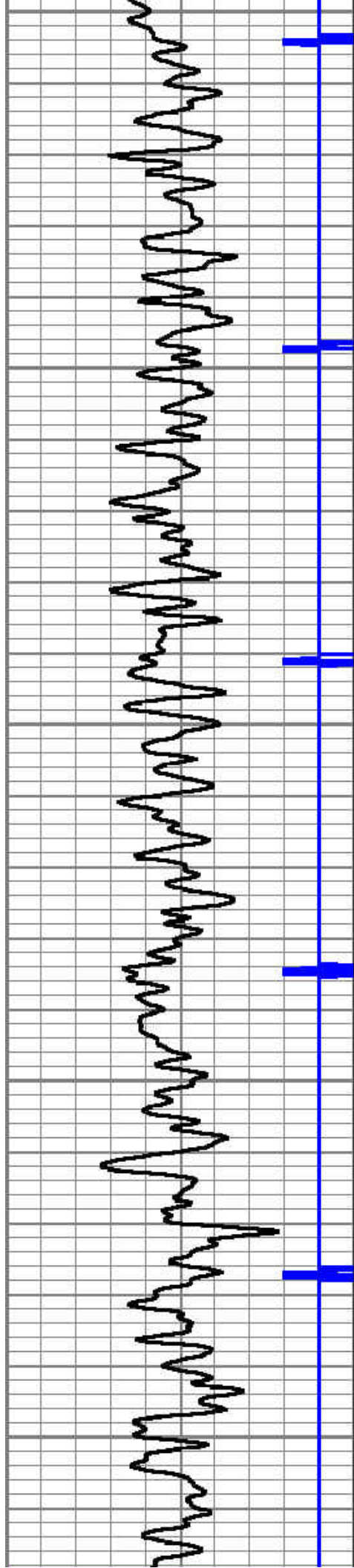
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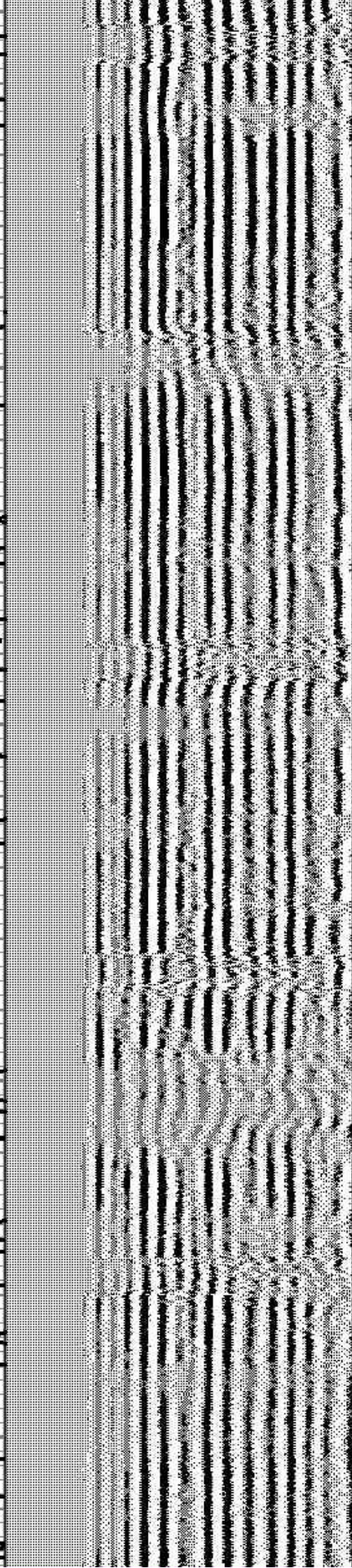
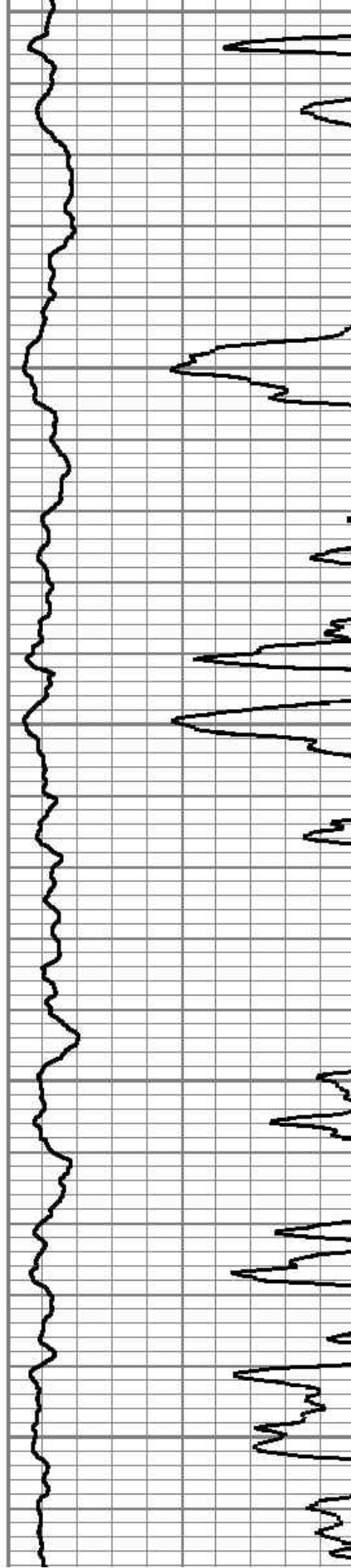
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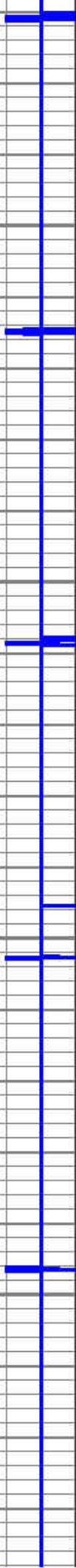
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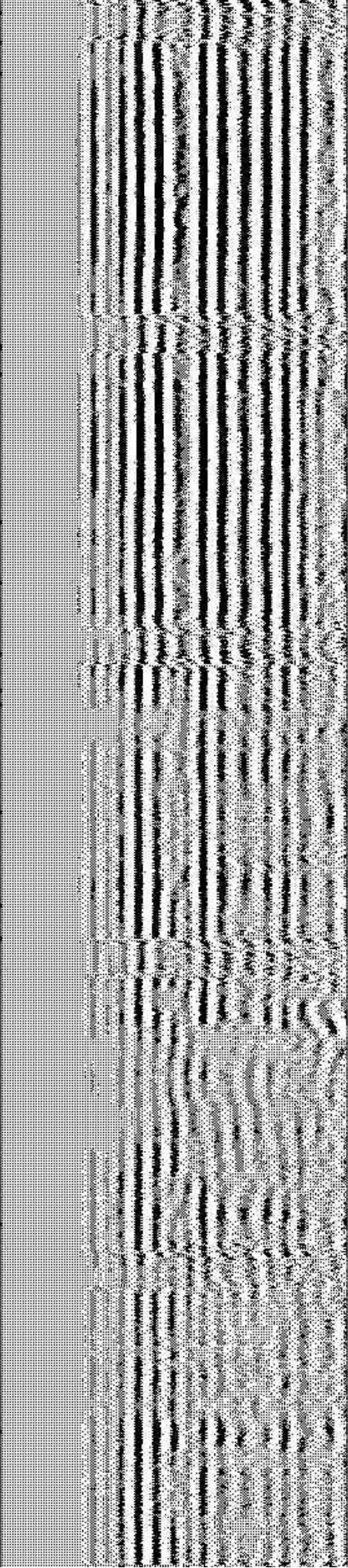
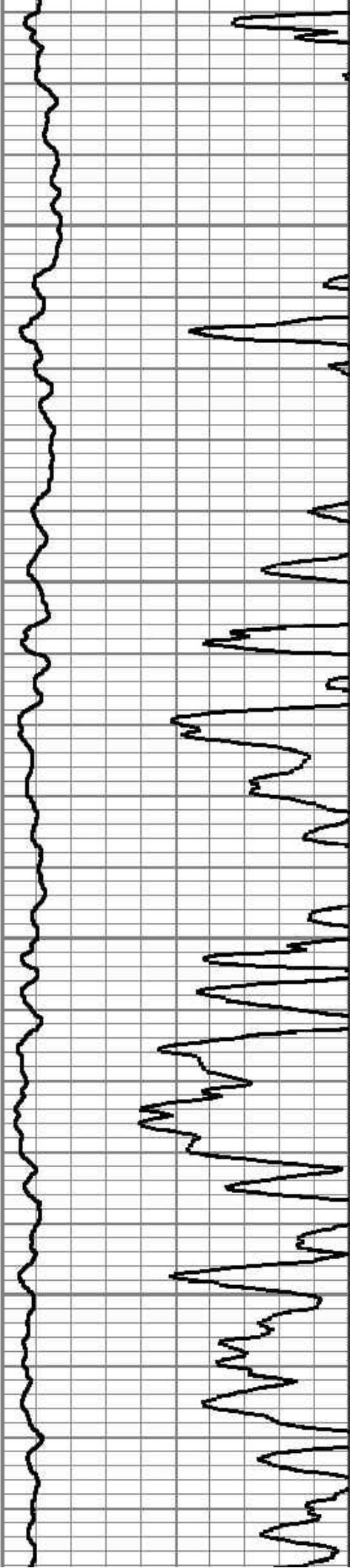


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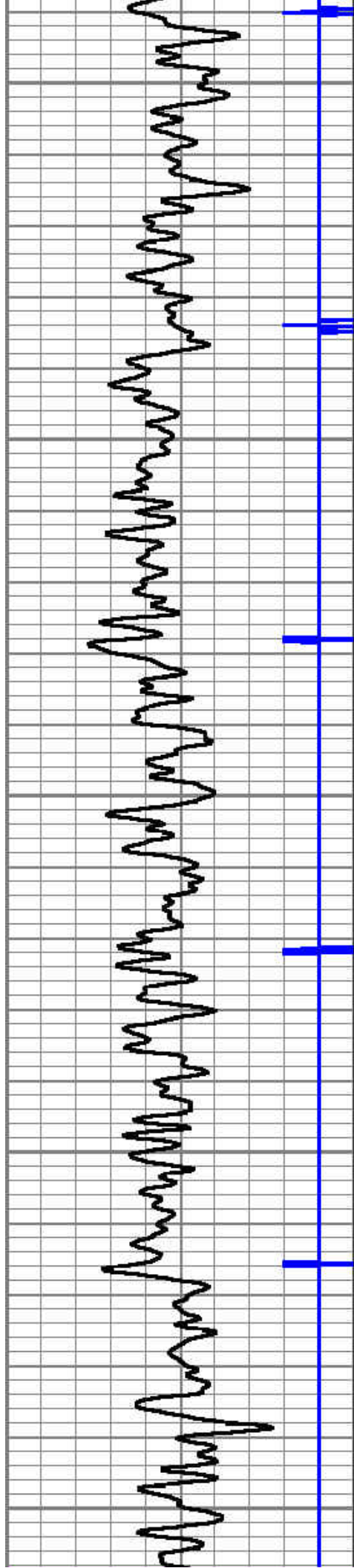
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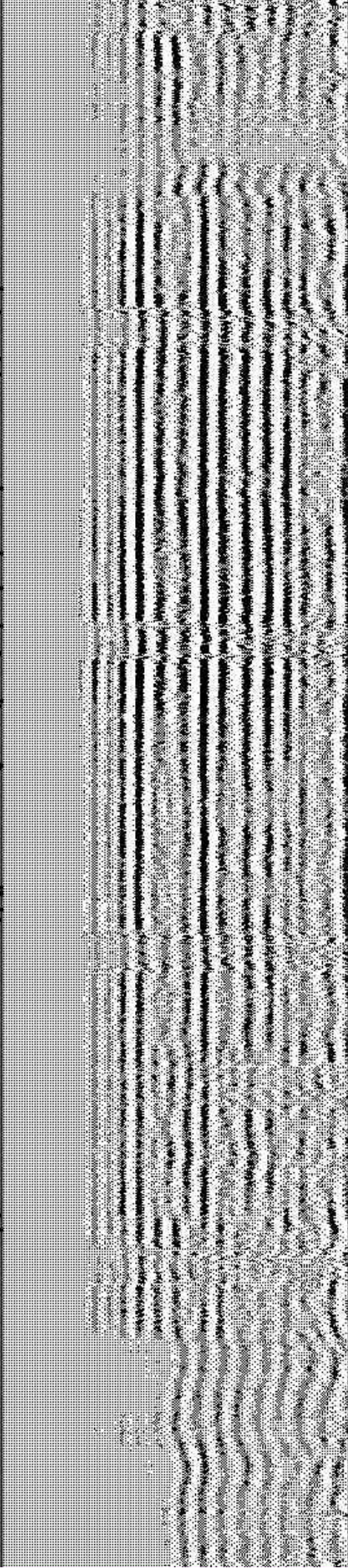
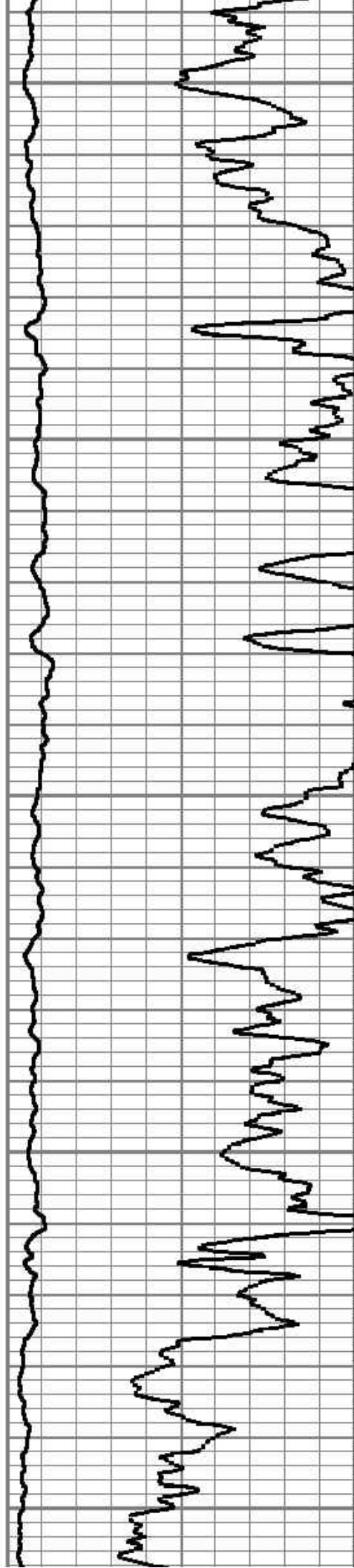
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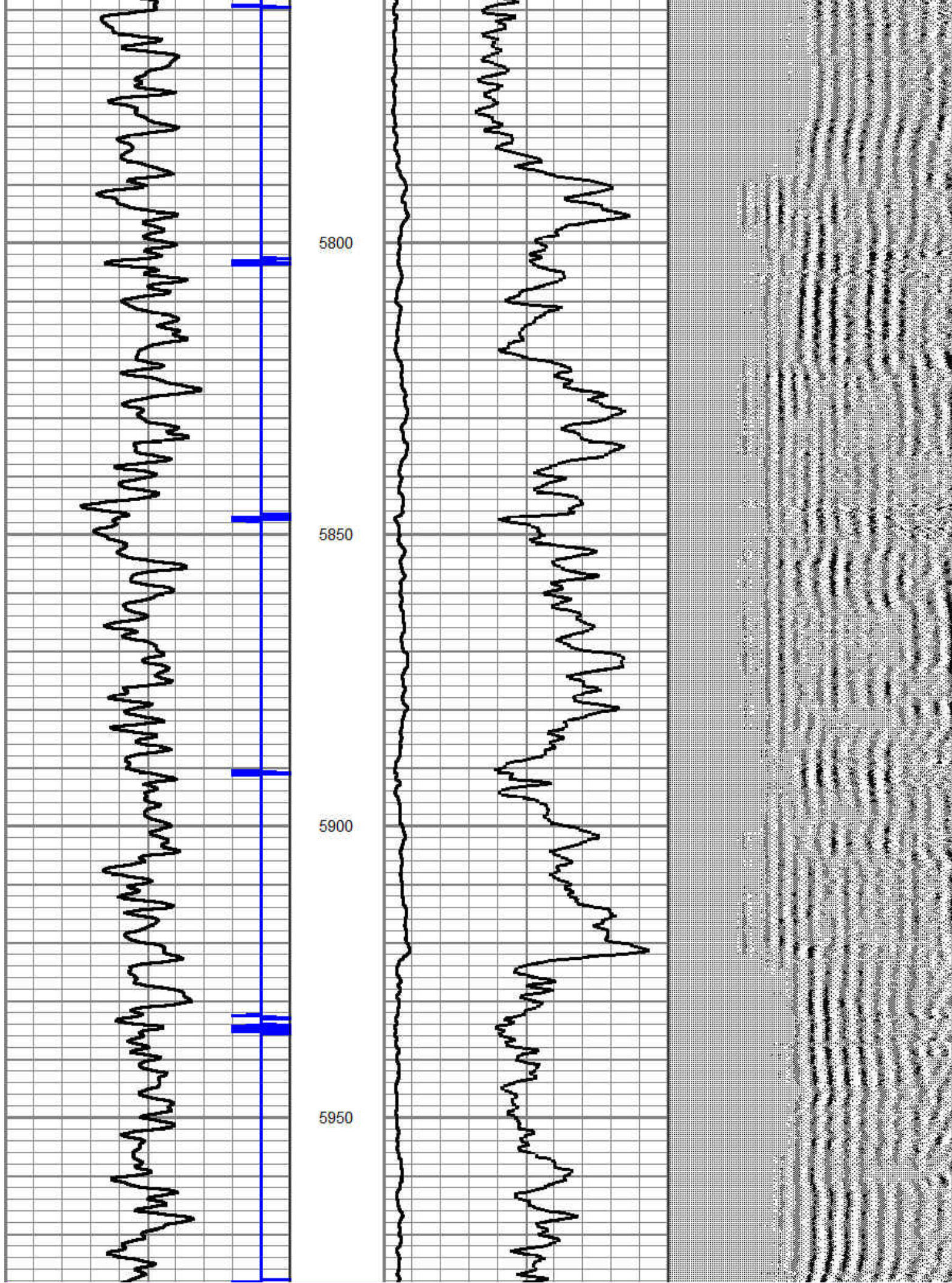
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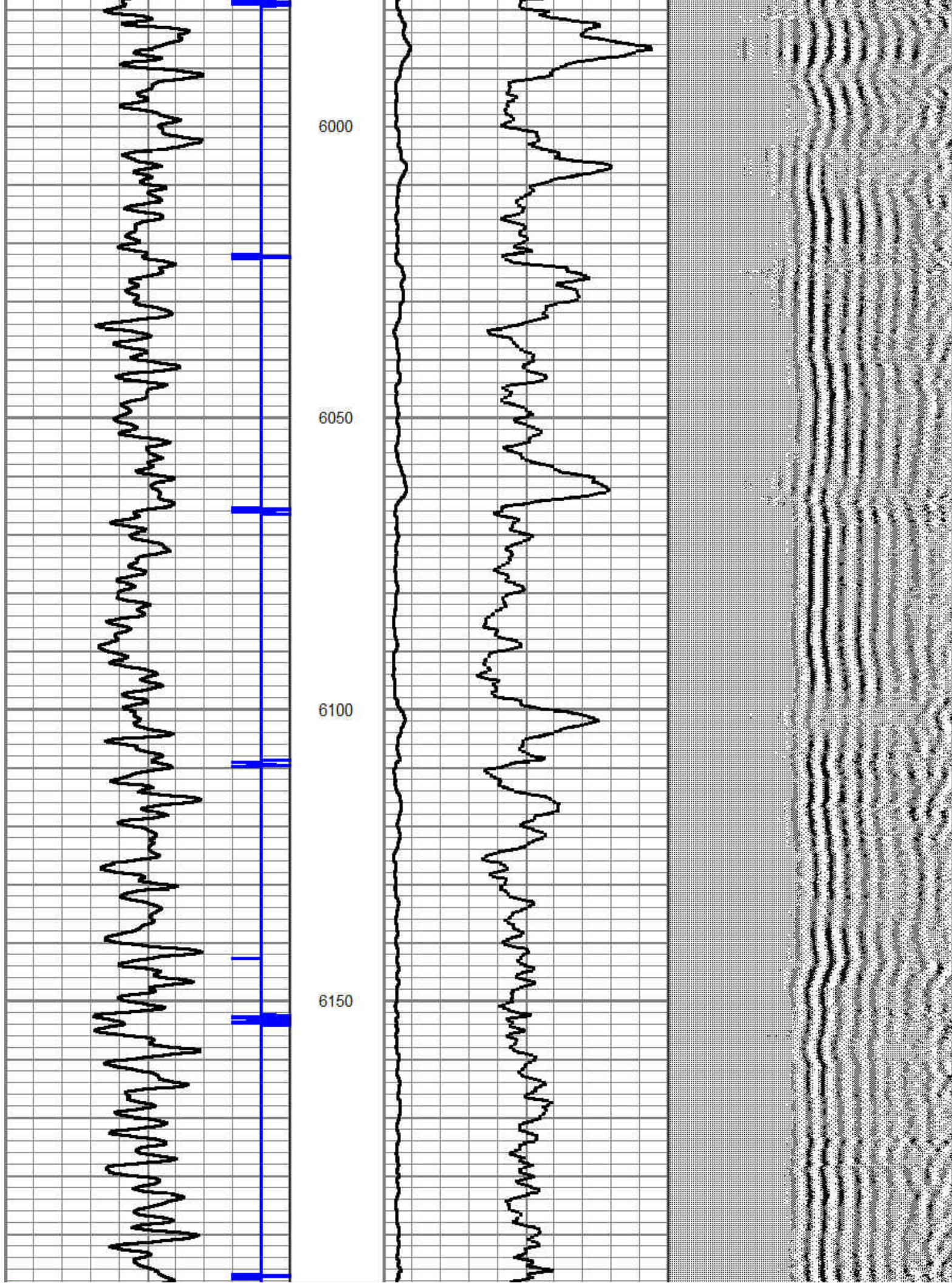
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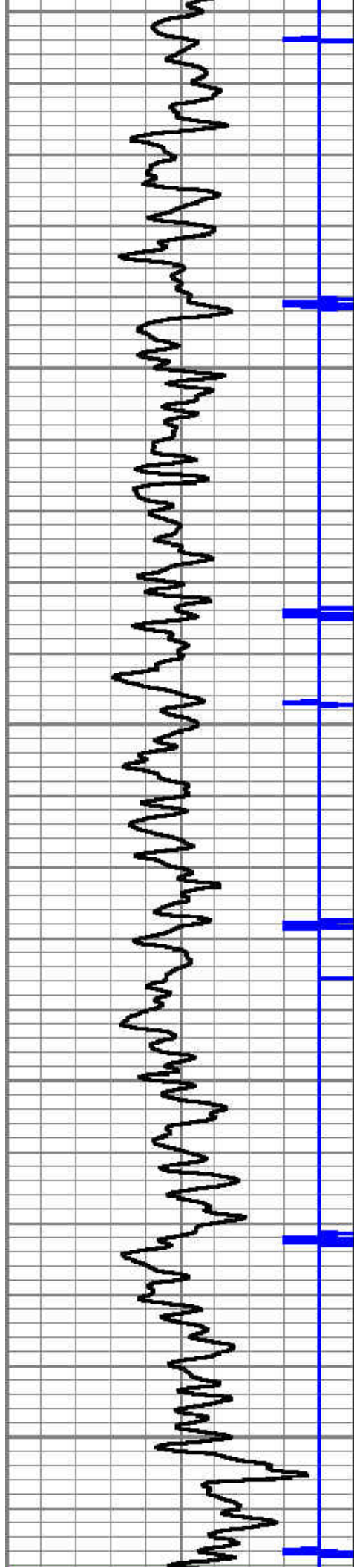












6200

6250

6300

6350

6400

