



CEMENT BOND LOG, C.C.L.
GAMMA-RAY & V.D.L.

Pioneer Energy Services

Company GREAT WESTERN OIL & GAS LLC
Well LAND JG 31-36D
Field WATTENBERG
County WELD
State COLO.

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Well LAND JG 31-36D
Field WATTENBERG
County WELD State COLO.

Location: API #: 05123365860000
SHL: 229' FSL & 929' FWL SWSW
EST. BHL: 74' FSL & 2432' FWL SESW
SEC 31 TWP 2N RGE 64W
Permanent Datum GL Elevation 4933
Log Measured From KB
Drilling Measured From KB
Other Services NONE
Elevation K.B. 4947
D.F. 4946
G.L. 4933

Date	4-2-13		
Run Number	1		
Depth Driller	7600		
Depth Logger	7525		
Bottom Logged Interval	7513		
Top Log Interval	800		
Open Hole Size	7 7/8"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	262		
Estimated Cement Top	1622		
Time Well Ready	ROA		
Time Logger on Bottom	PM		
Equipment Number	24		
Location	FT. MORGAN		
Recorded By	NATHAN BIVENS		
Witnessed By	SHAWN ARMSTRONG		

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		4.5"		11.6#			
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

S.O. # 2-203883

E
N O O O O X O S
W

HWY 52 & WCR 49 NORTH 1.2 MILES EAST INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SDSCHD Cable Head for Testing	1.00	1.44	1.00

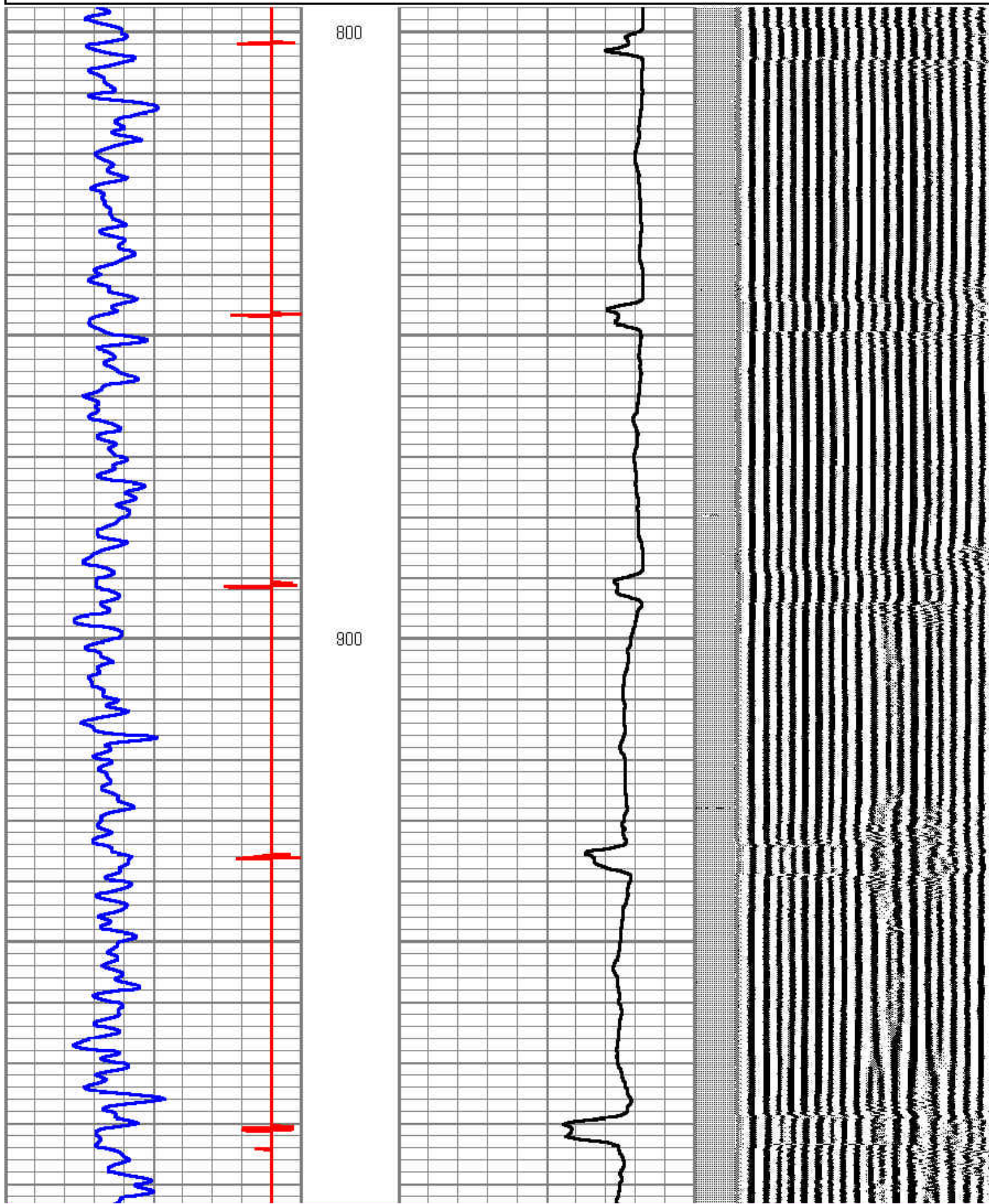
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
WVF3	15.35		CBL-Probe (110215) 2.75 digital probe	8.75	2.75	106.50
WVF5	14.35					
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
CCL	7.00		CCL-Probe (081119)	2.02	2.75	
GR	3.67		GR-Probe275dig (110249) Probe Digital Gamma-Ray	3.33	2.75	57.00
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
Dataset: land.jg 31-36d.db: field/well/run1/pass4 Total Length: 26.60 ft Total Weight: 264.50 lb O.D.: 2.75 in						

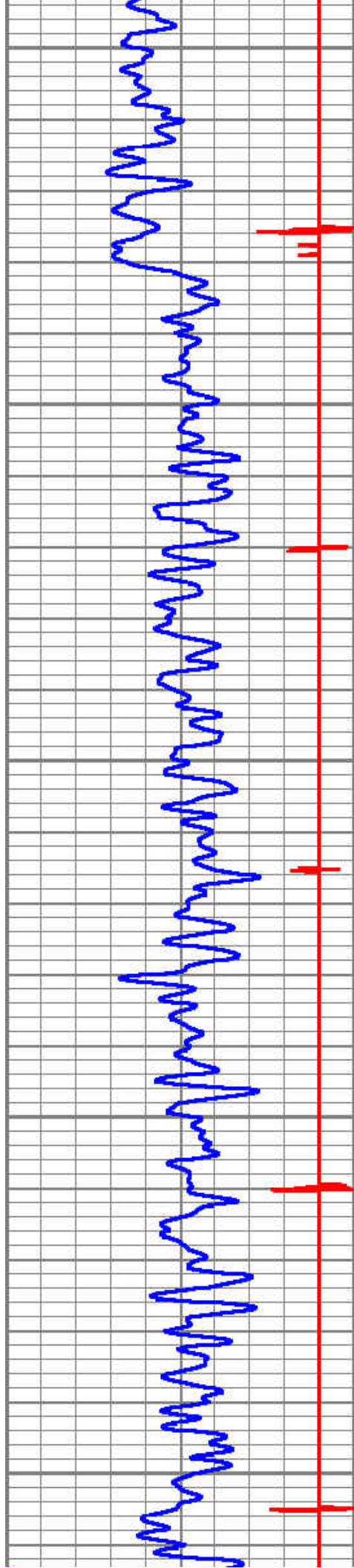
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 Dataset Pathname: pass4
 Presentation Format: cbl_dr
 Dataset Creation: Tue Apr 02 17:57:20 2013 by Log SCH 120430

9	Collar Locator	-1
0	Gamma Ray (GAPI)	150

0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100

200 Variable Density 1200

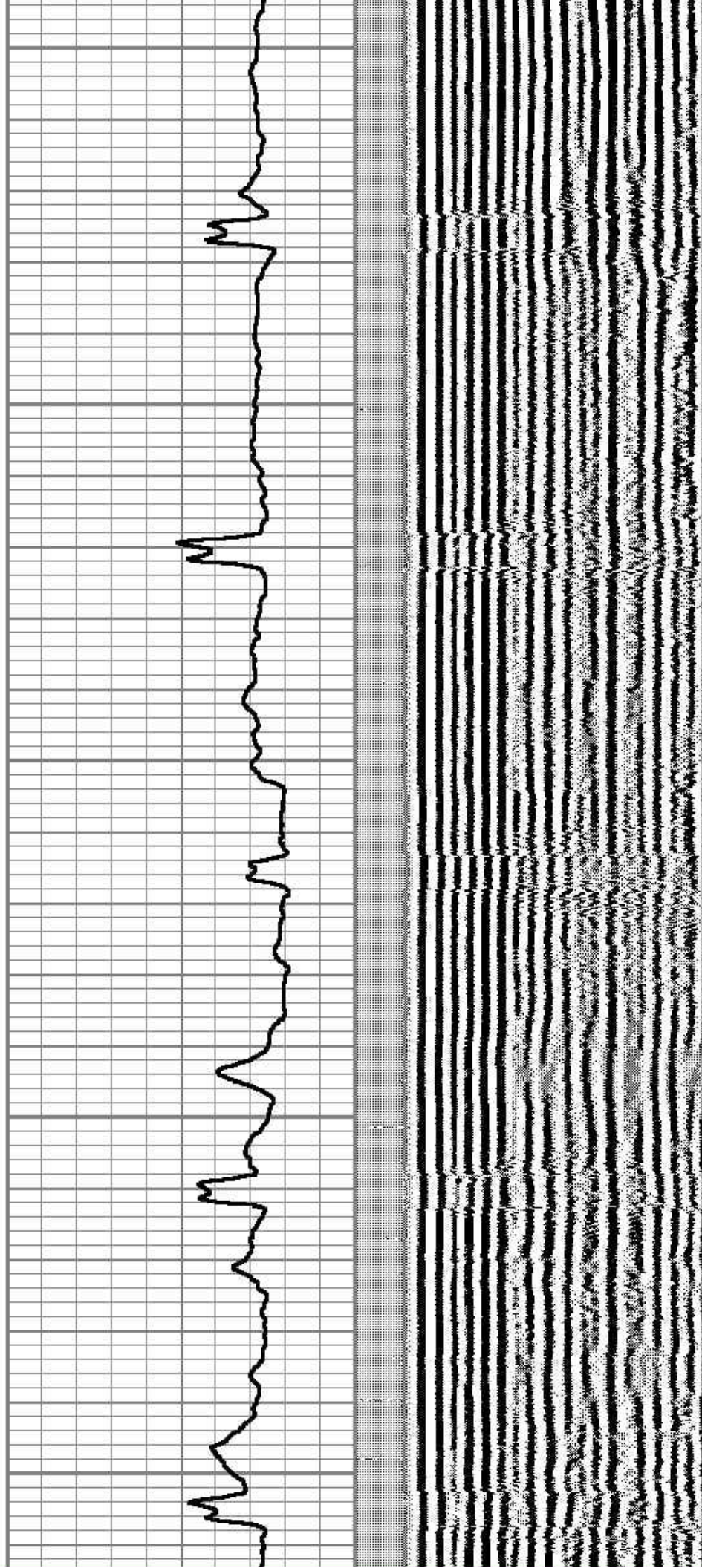


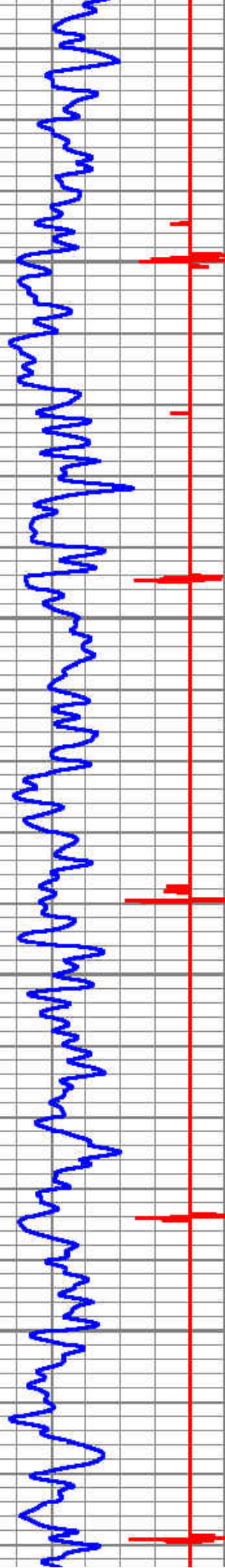


1000

1100

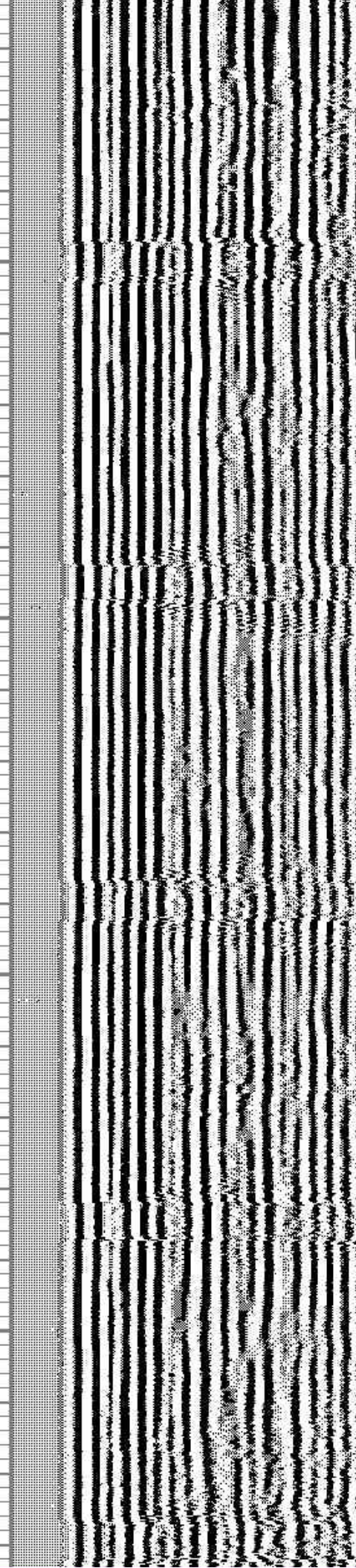
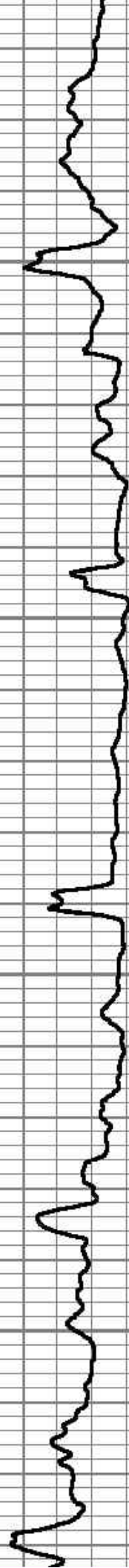
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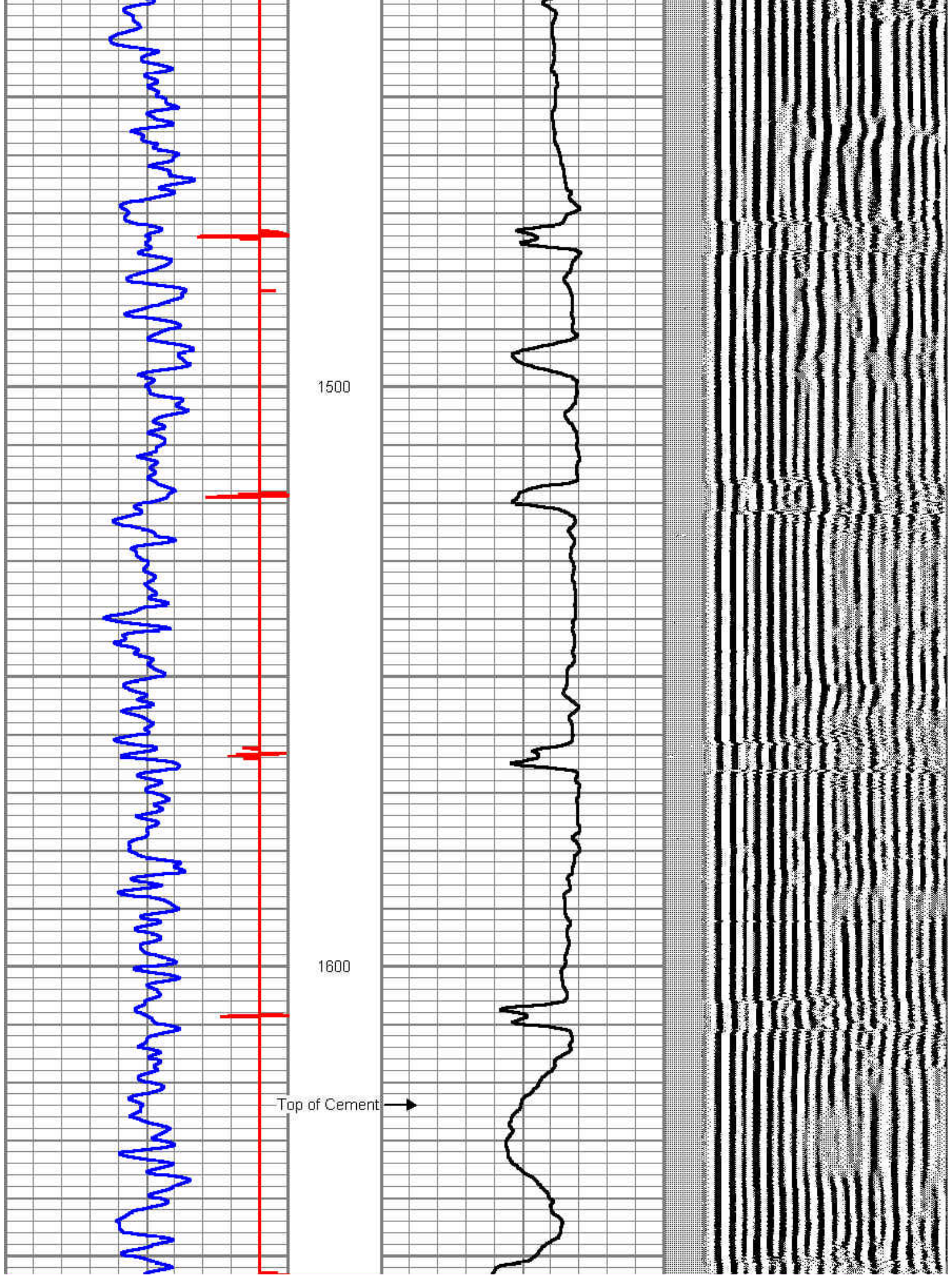


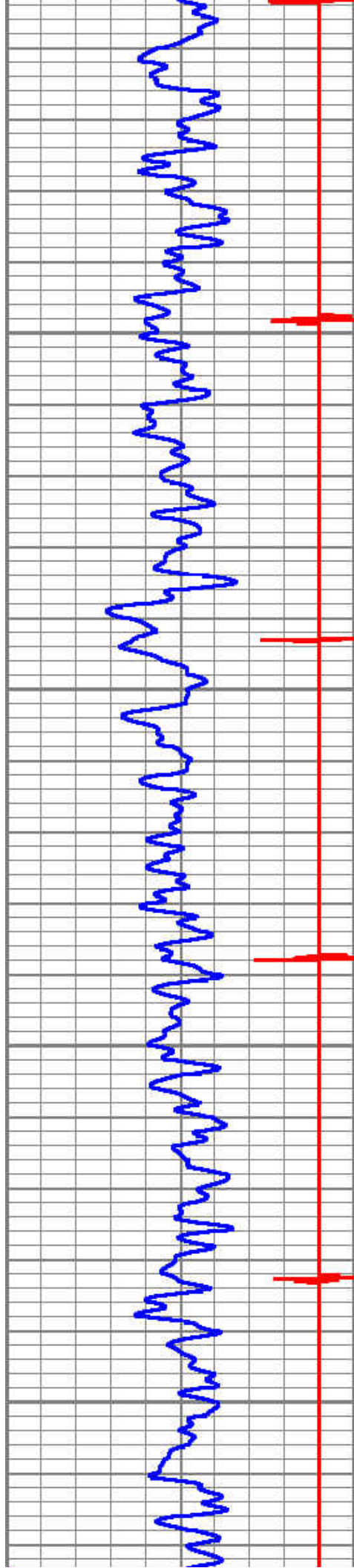


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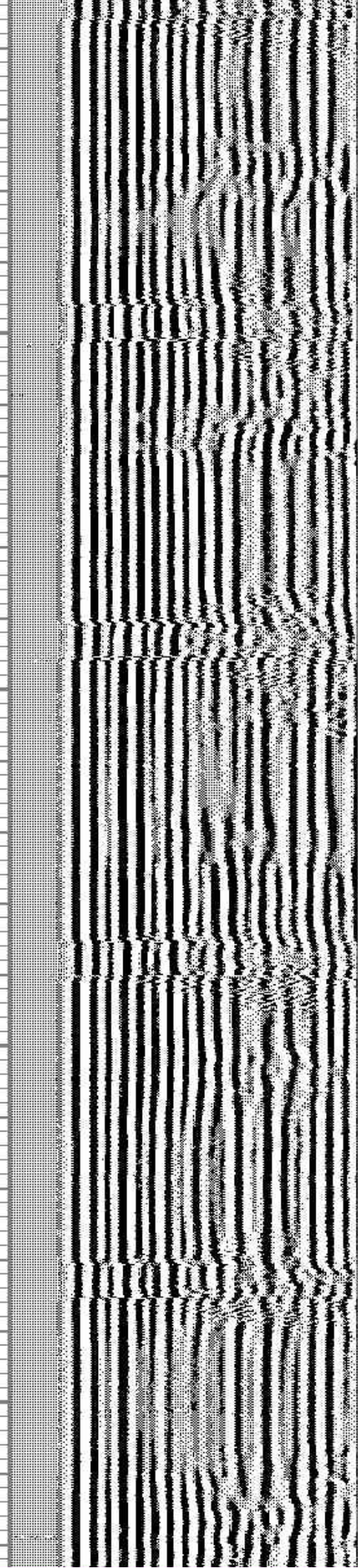
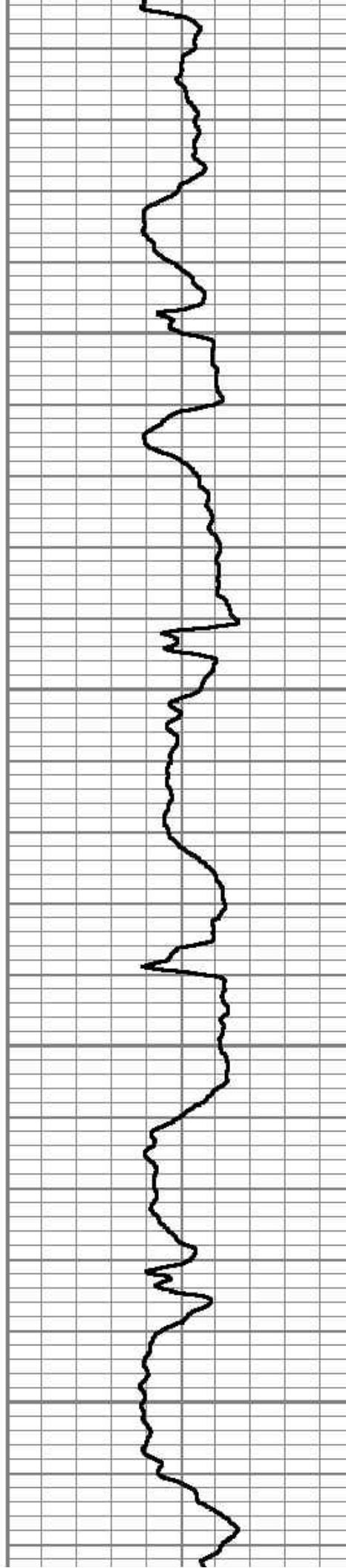






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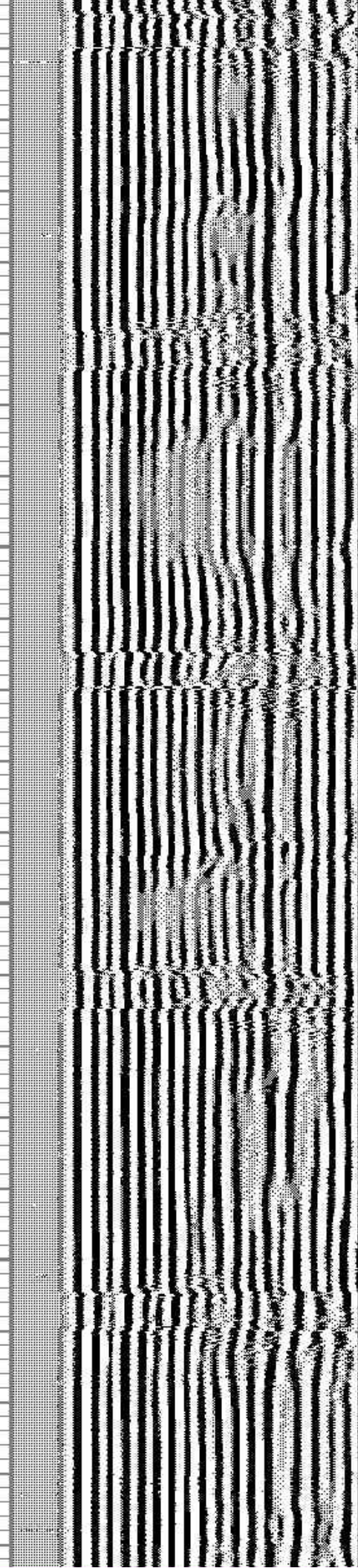
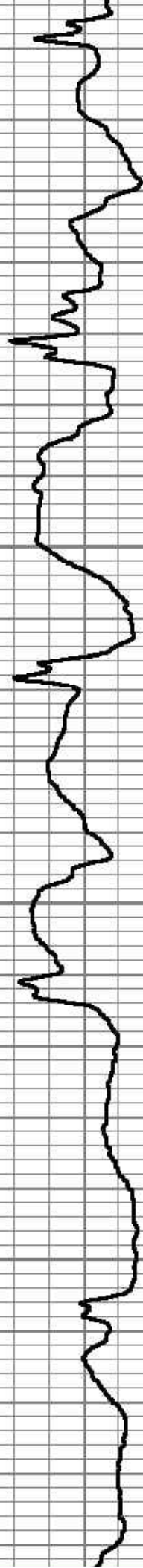
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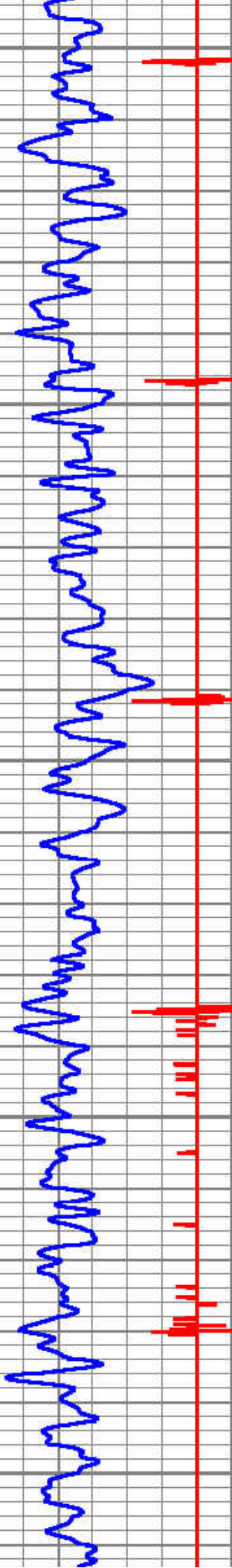




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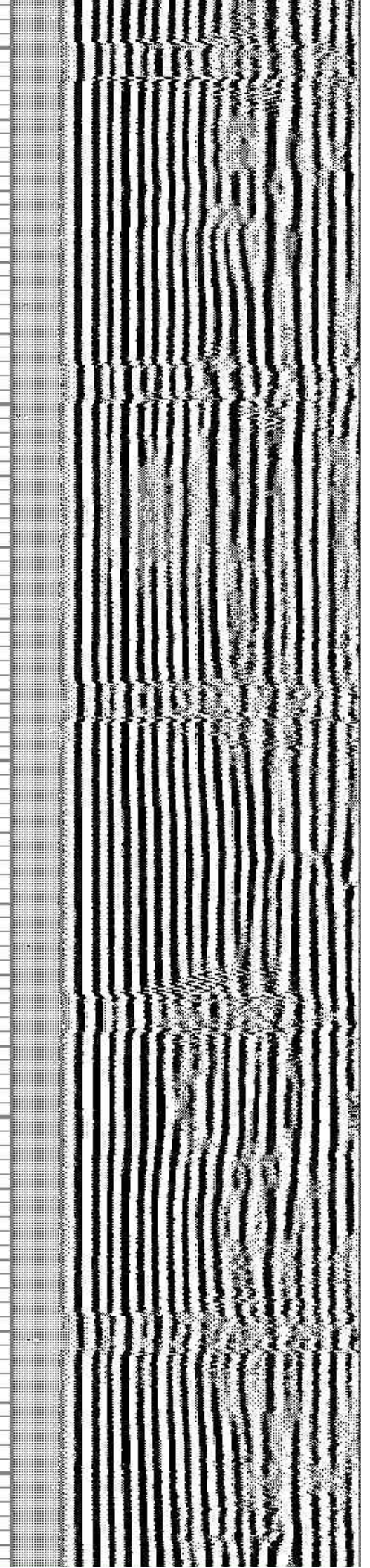


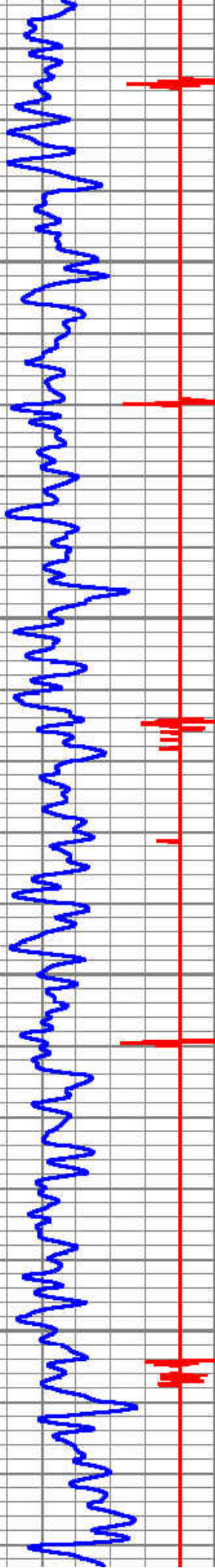


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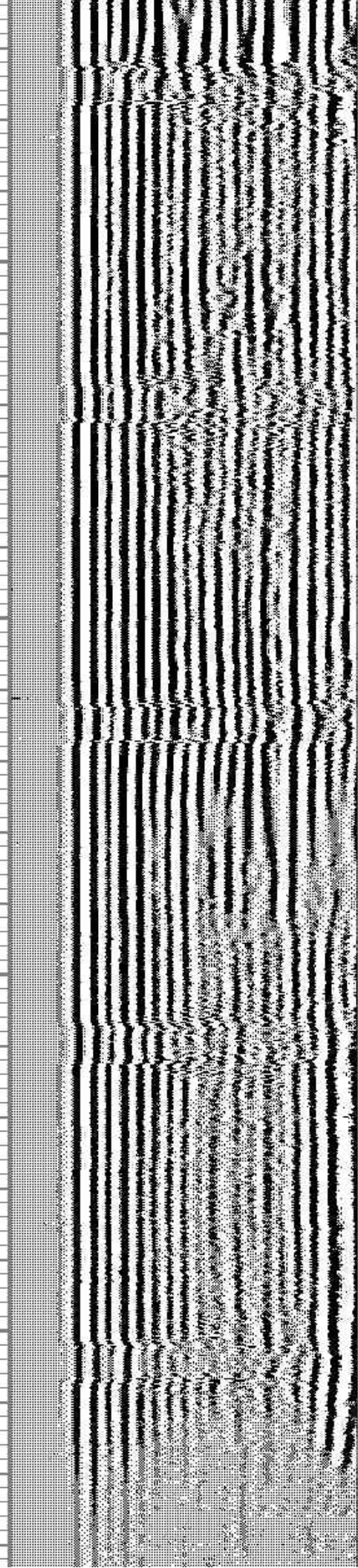
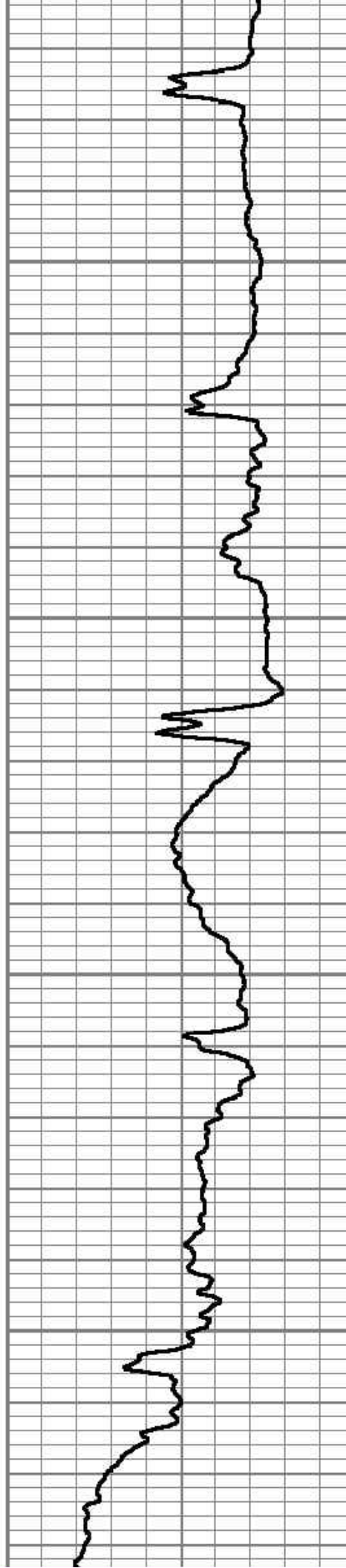
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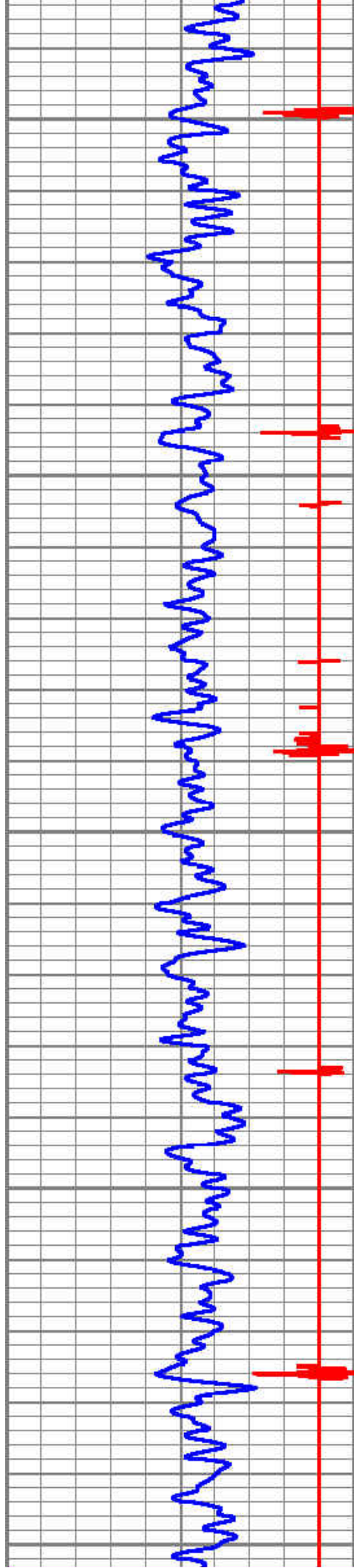




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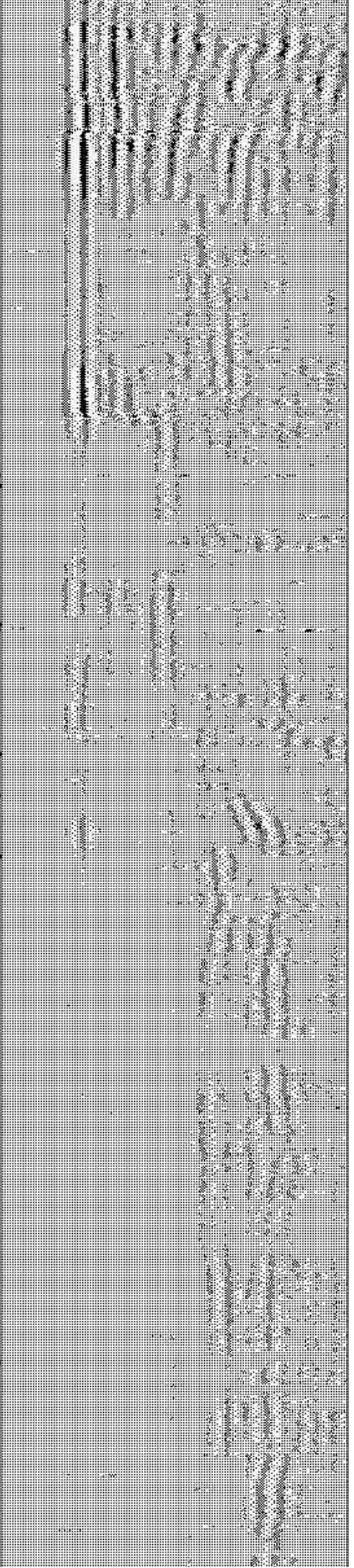
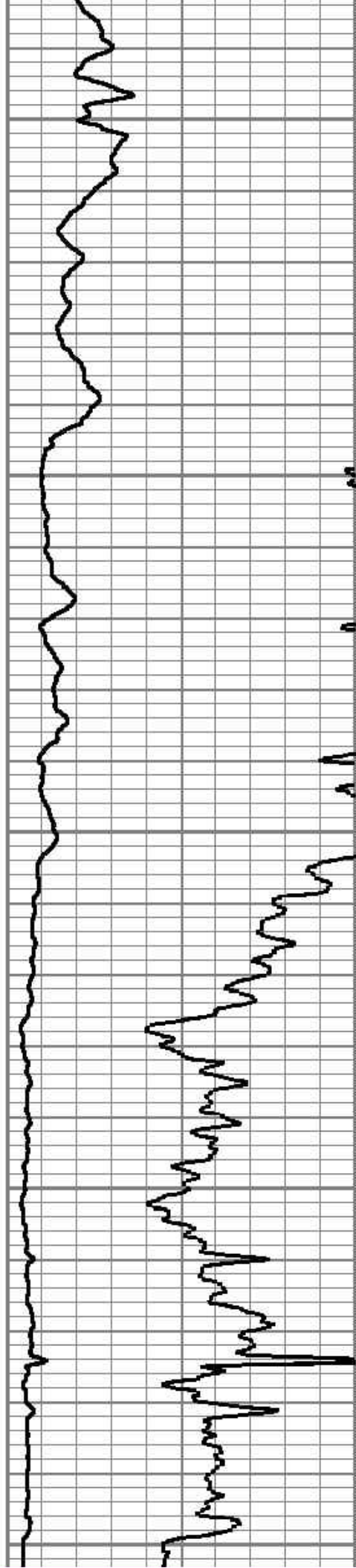
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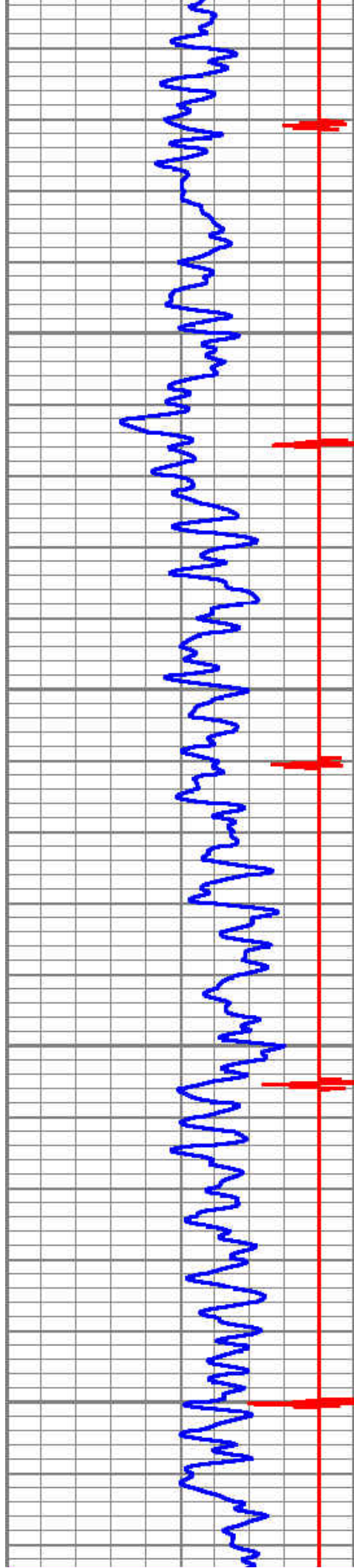




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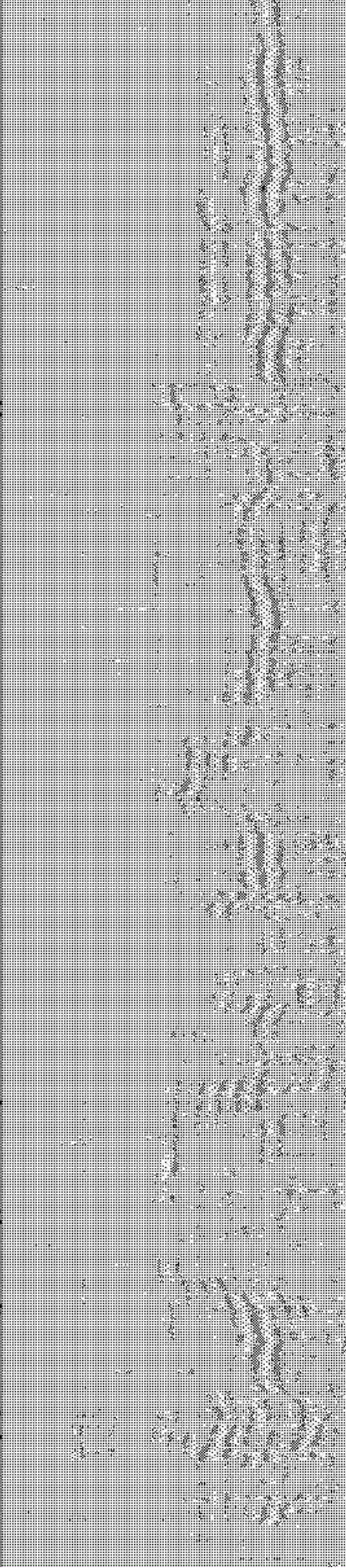
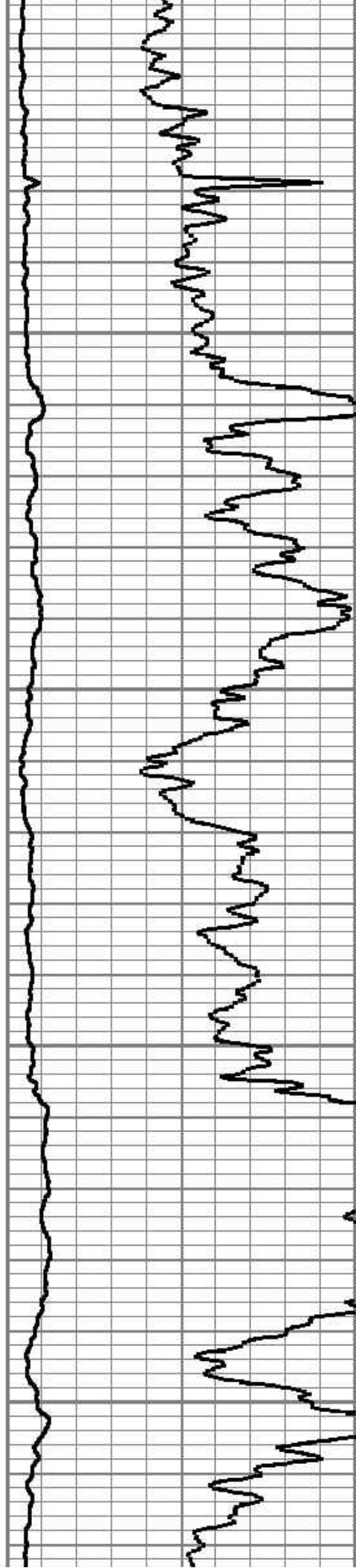
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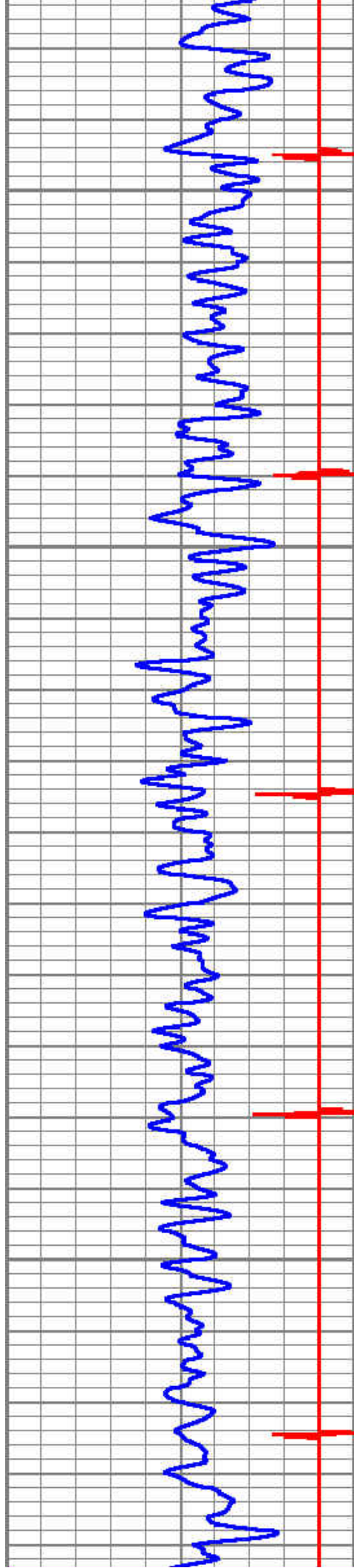




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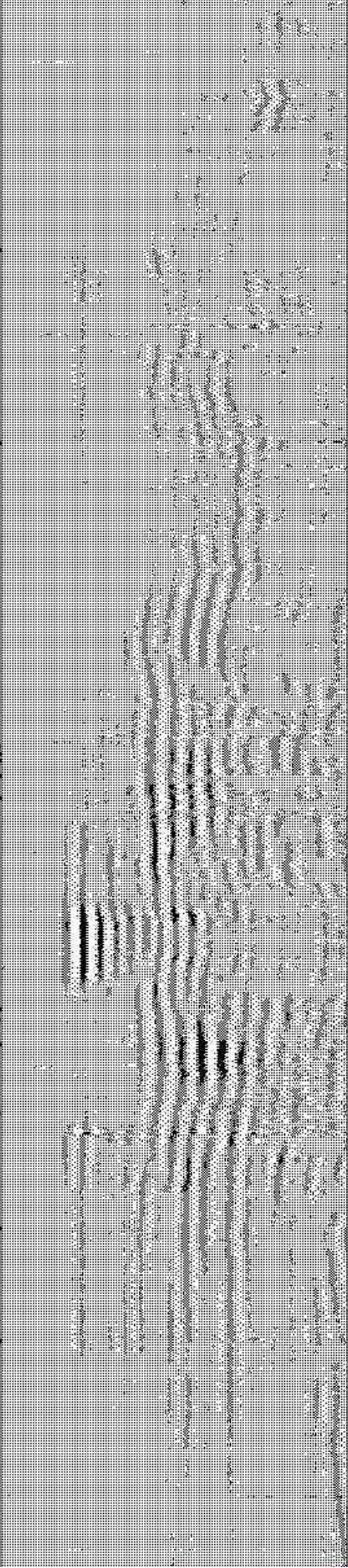
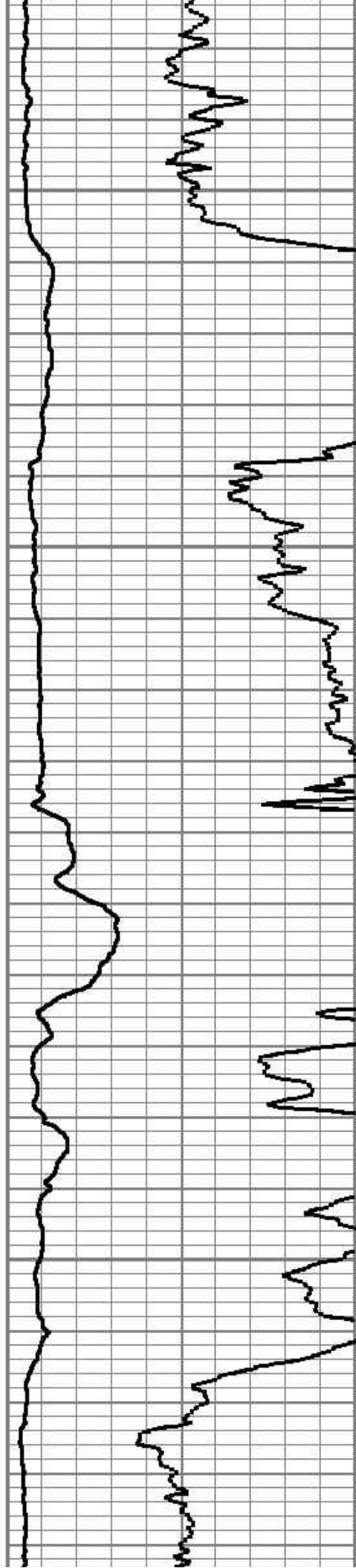
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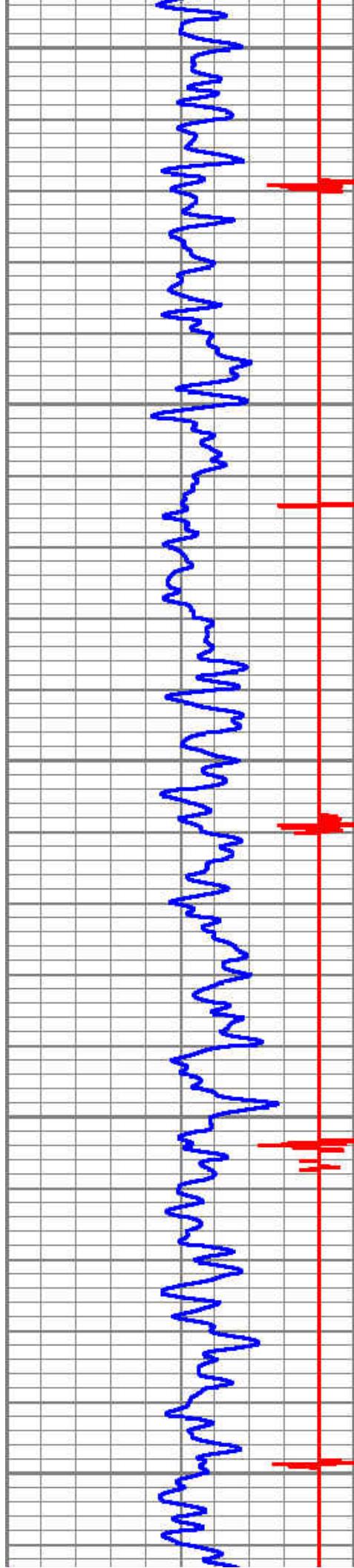




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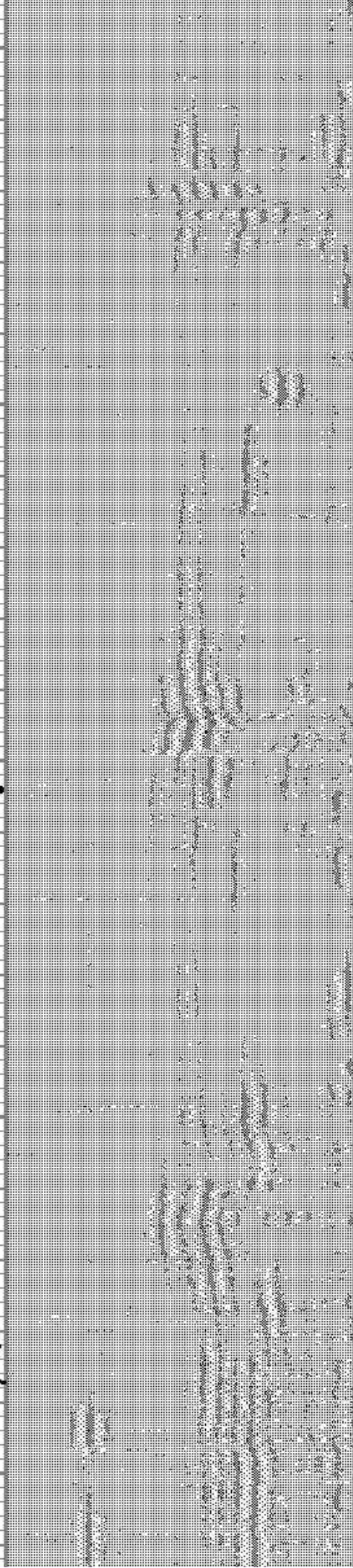
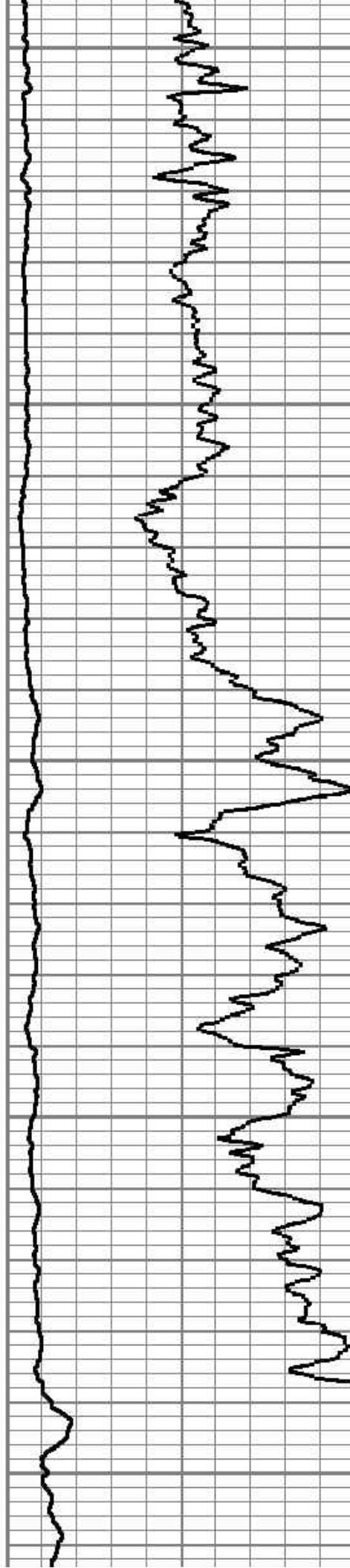


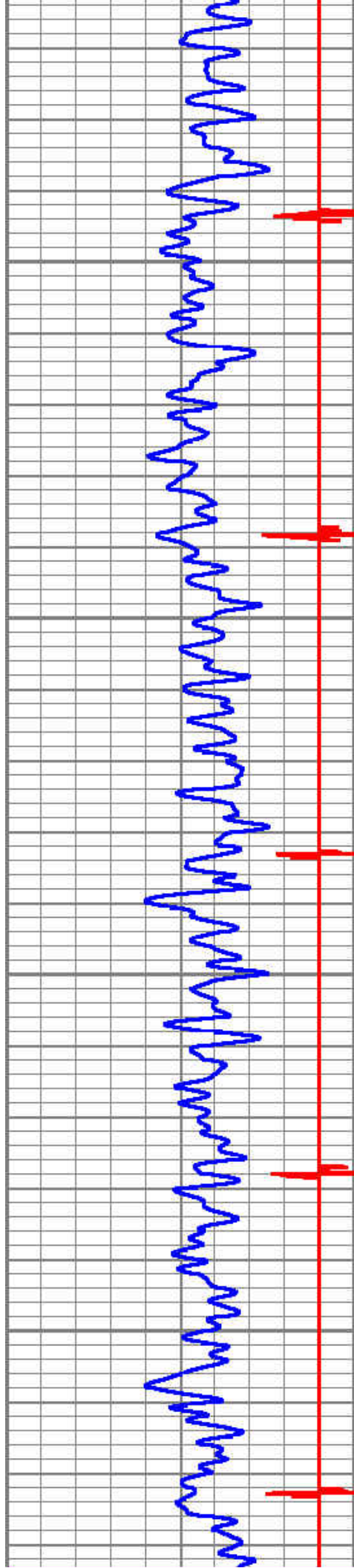


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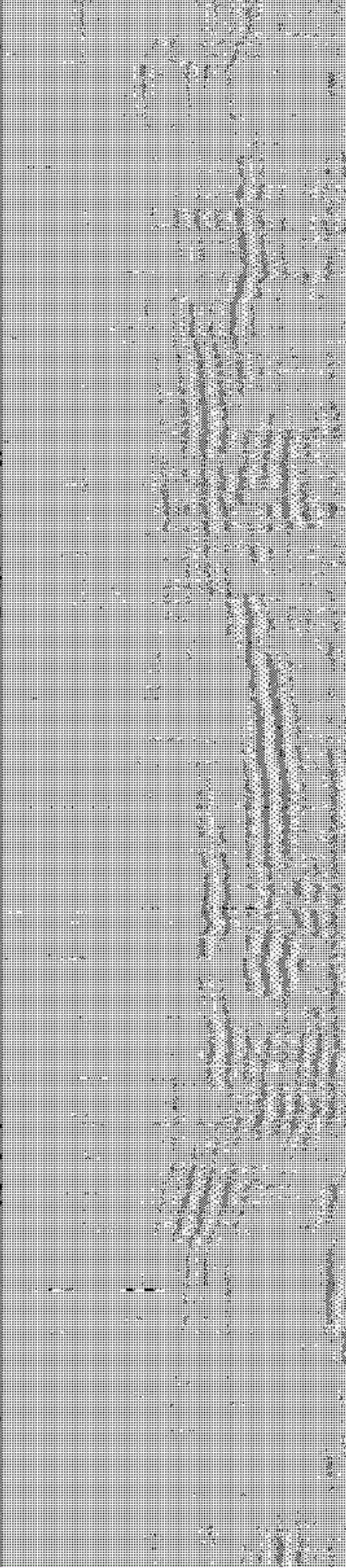
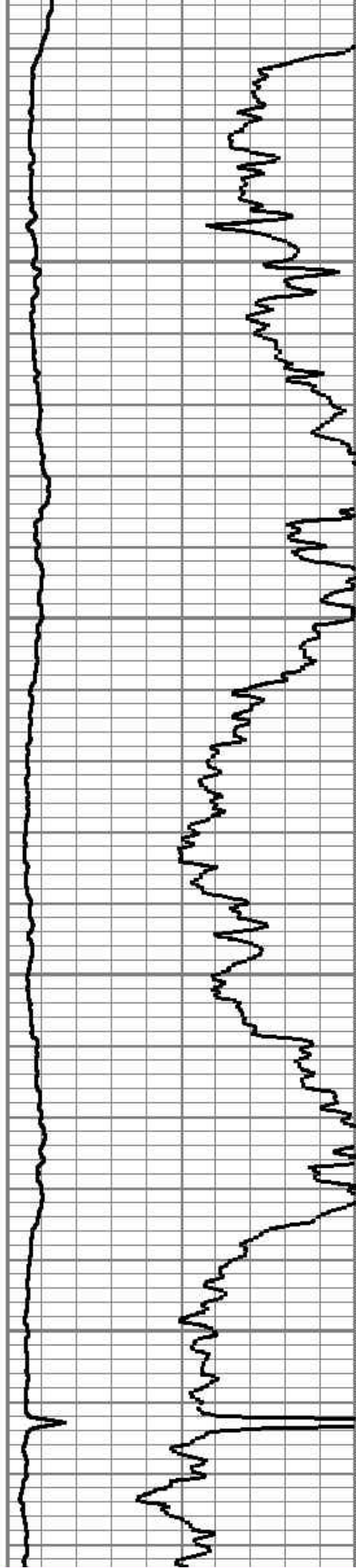
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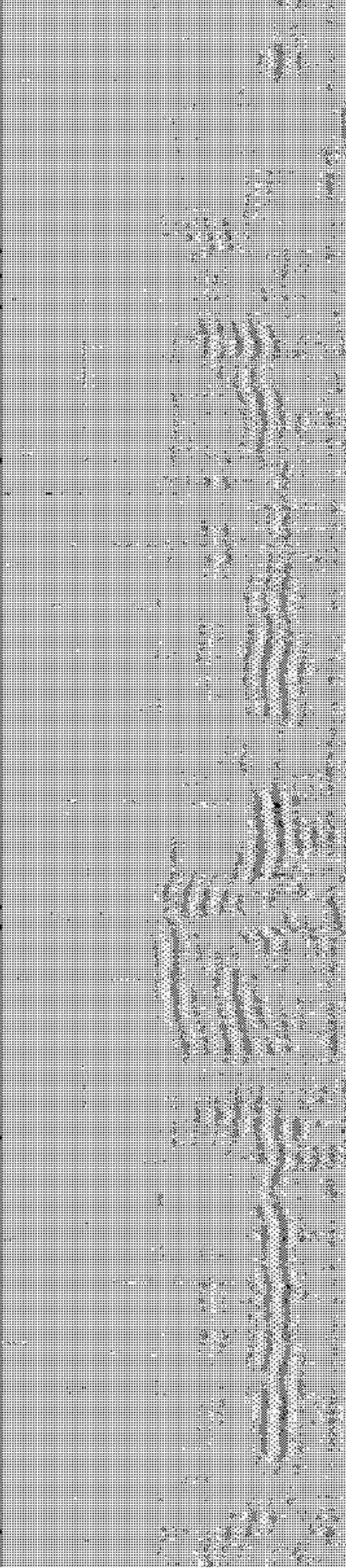
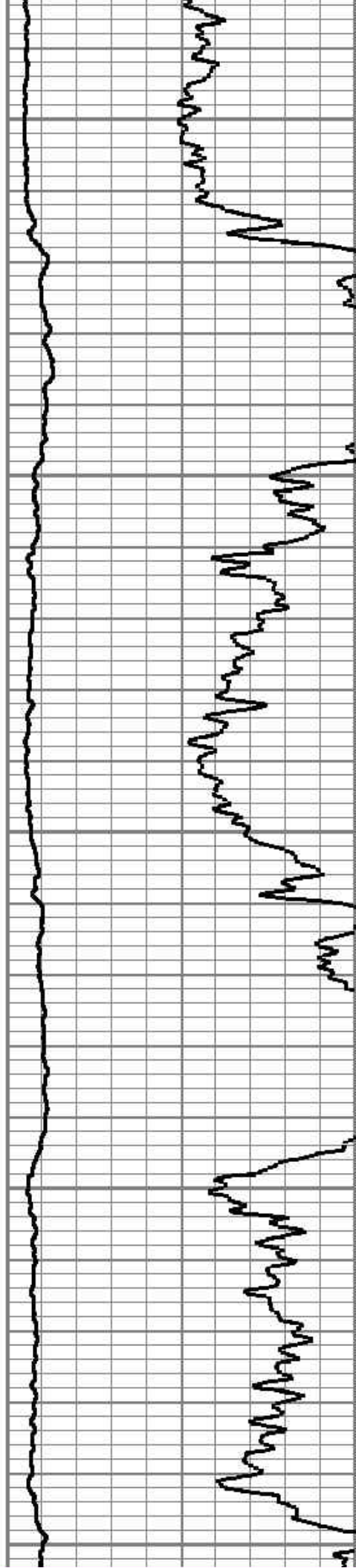
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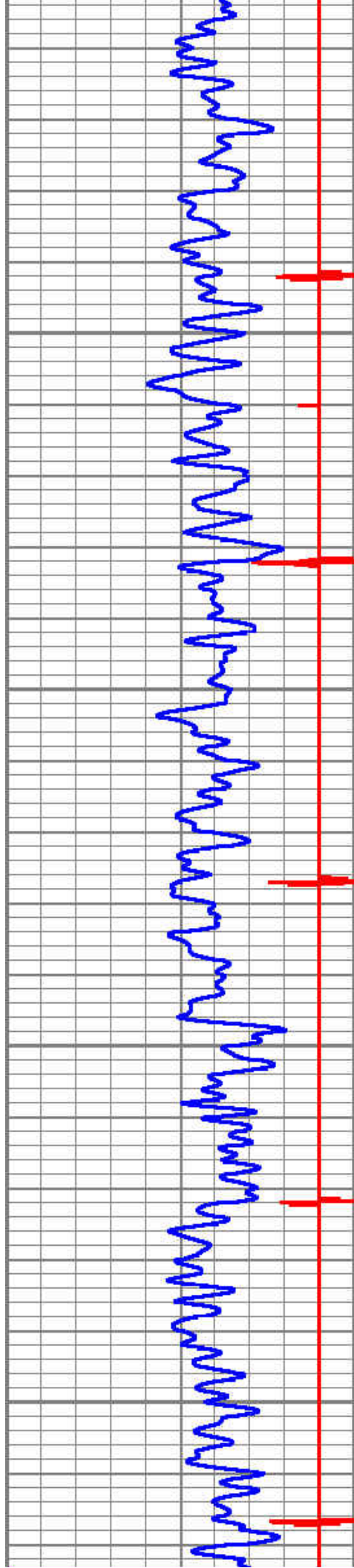




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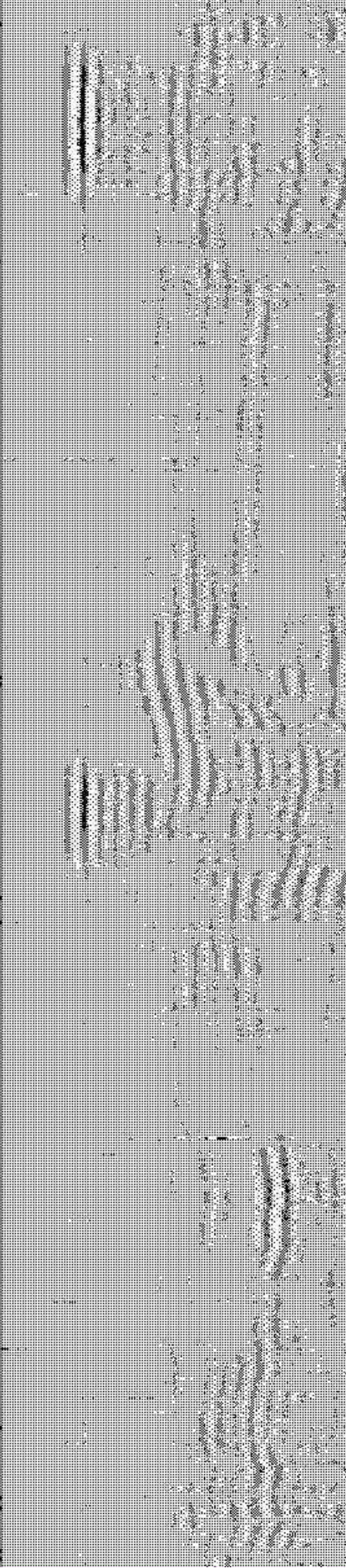
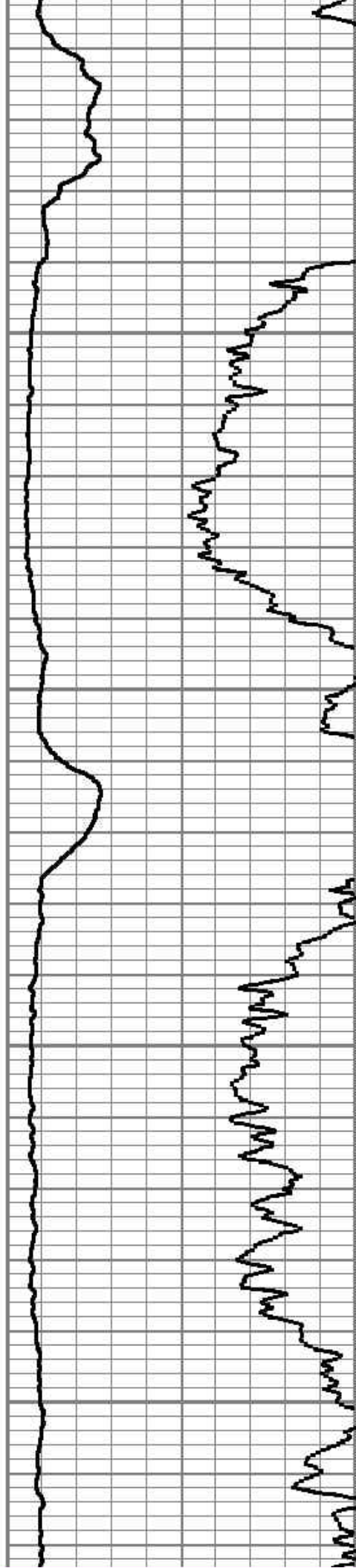
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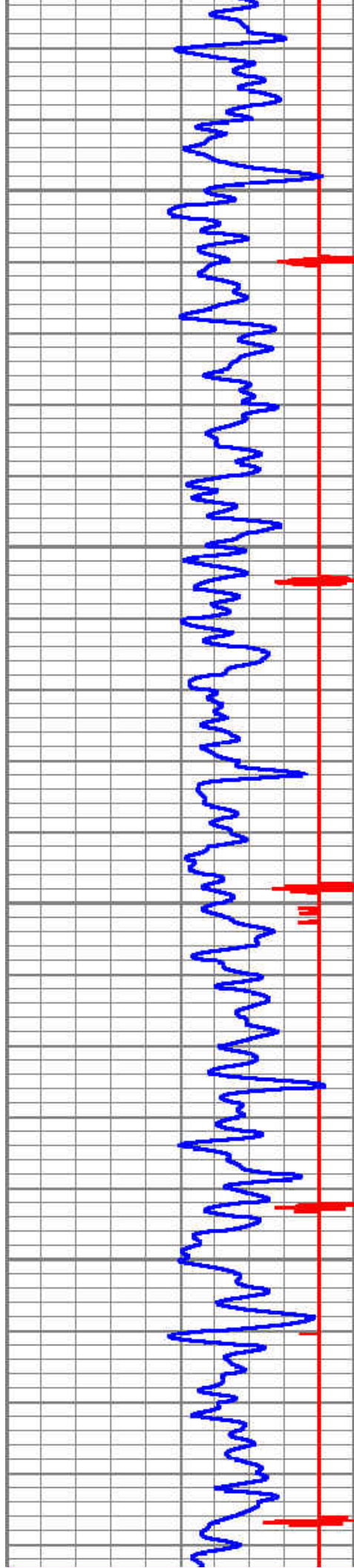




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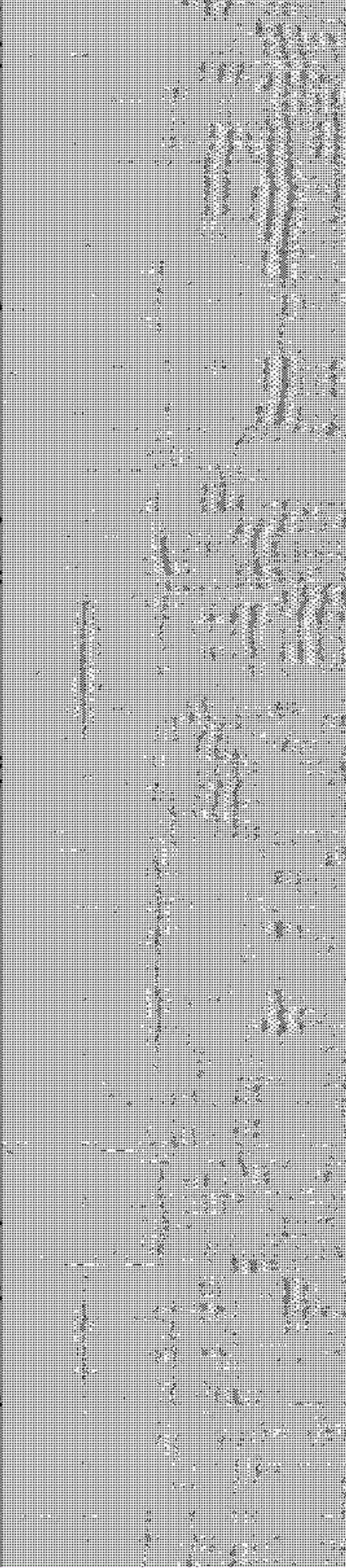
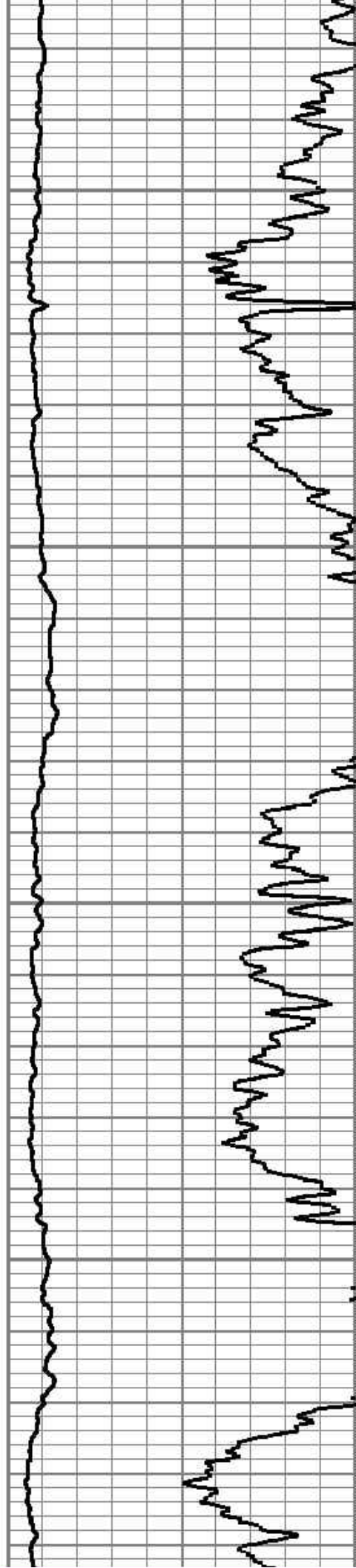
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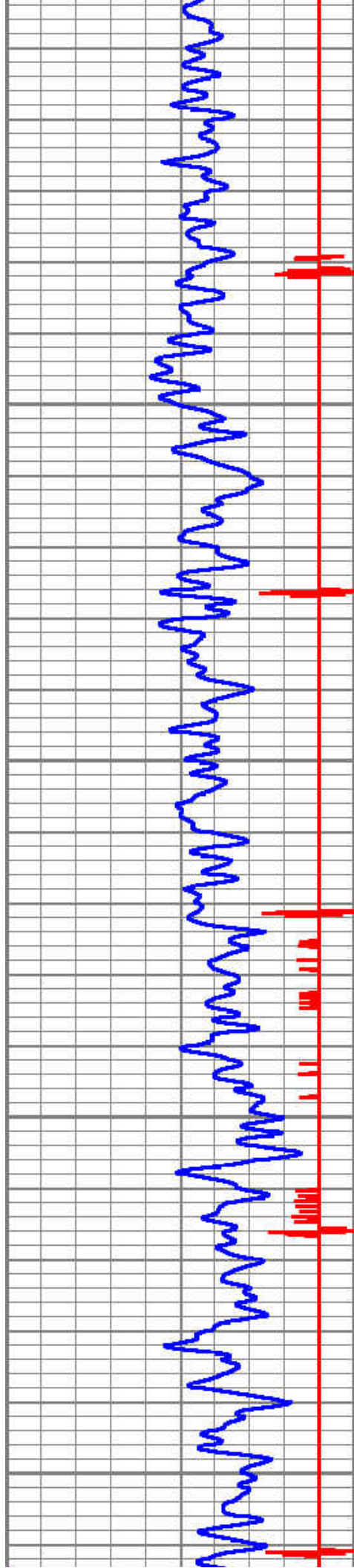




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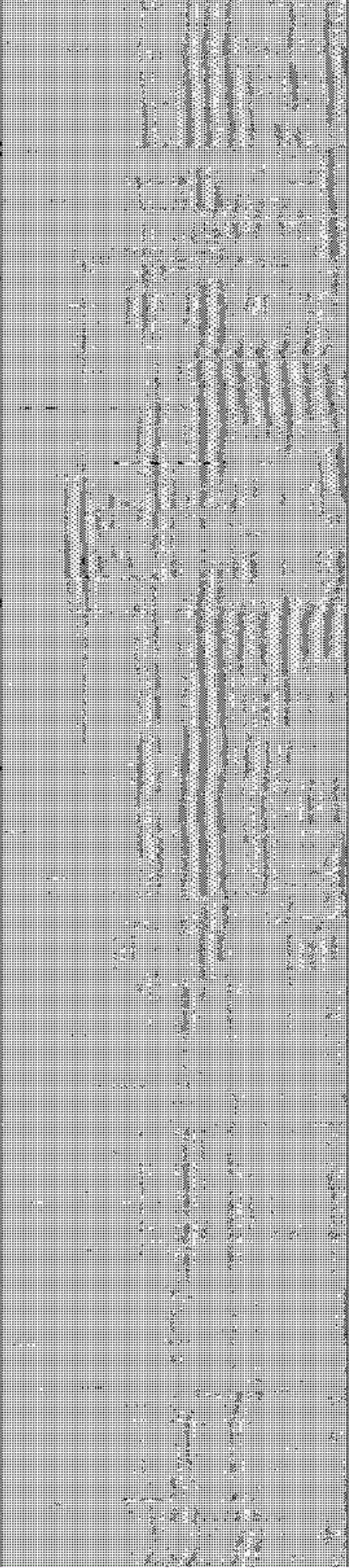
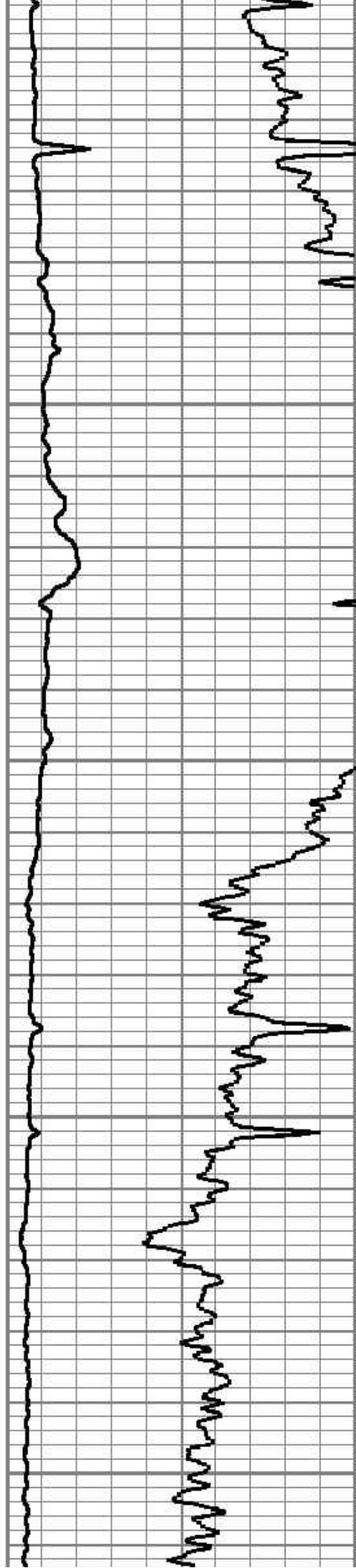


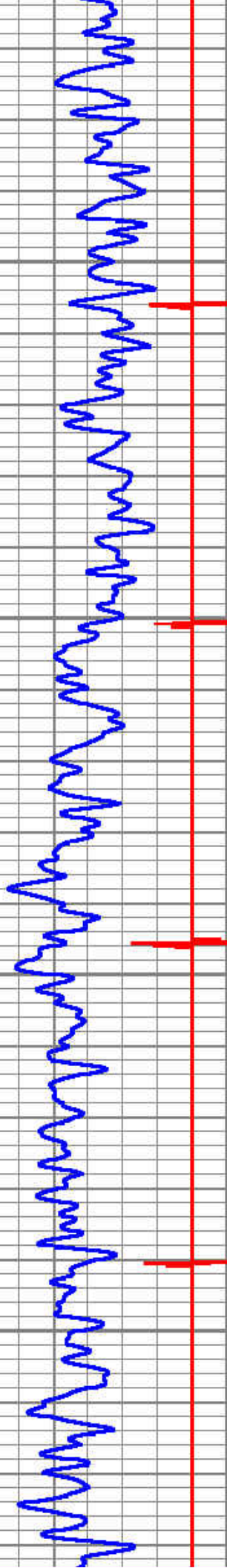


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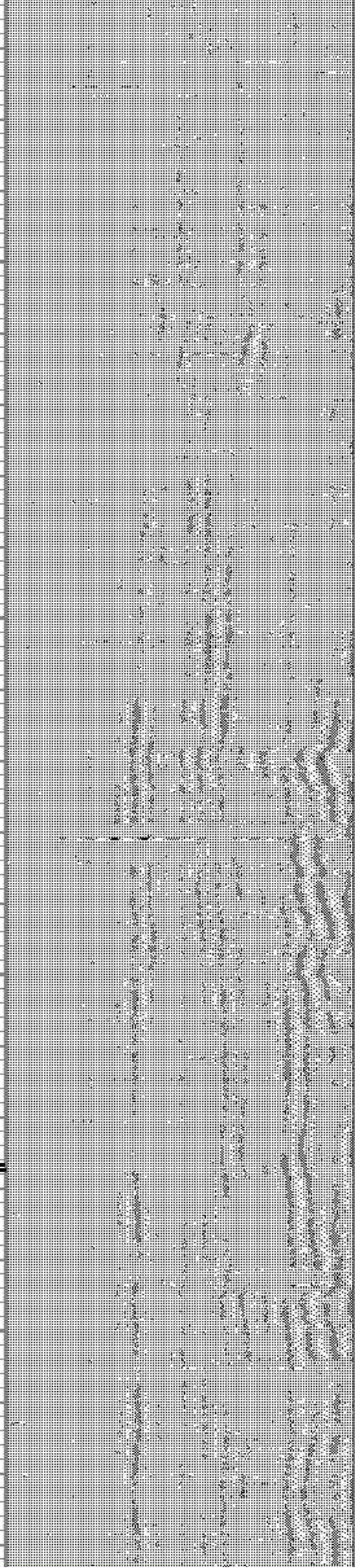
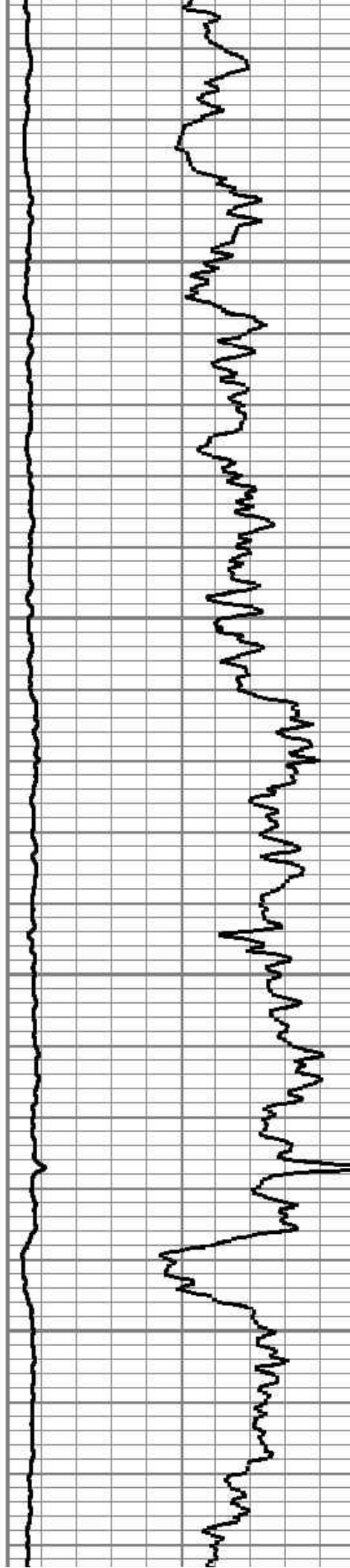
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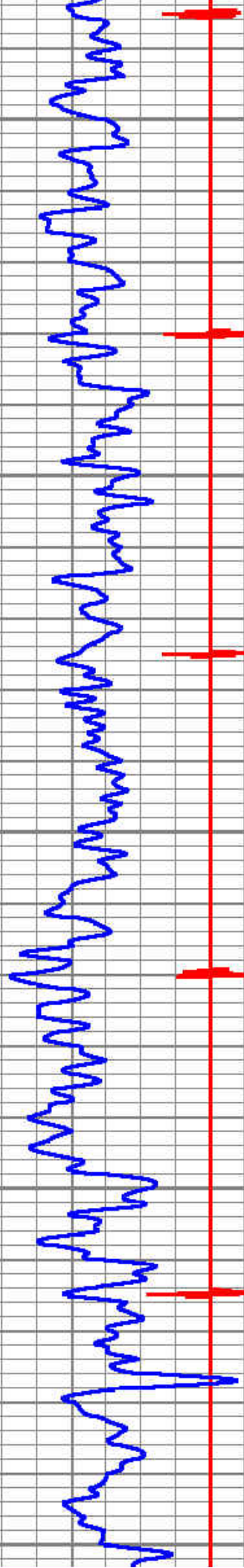




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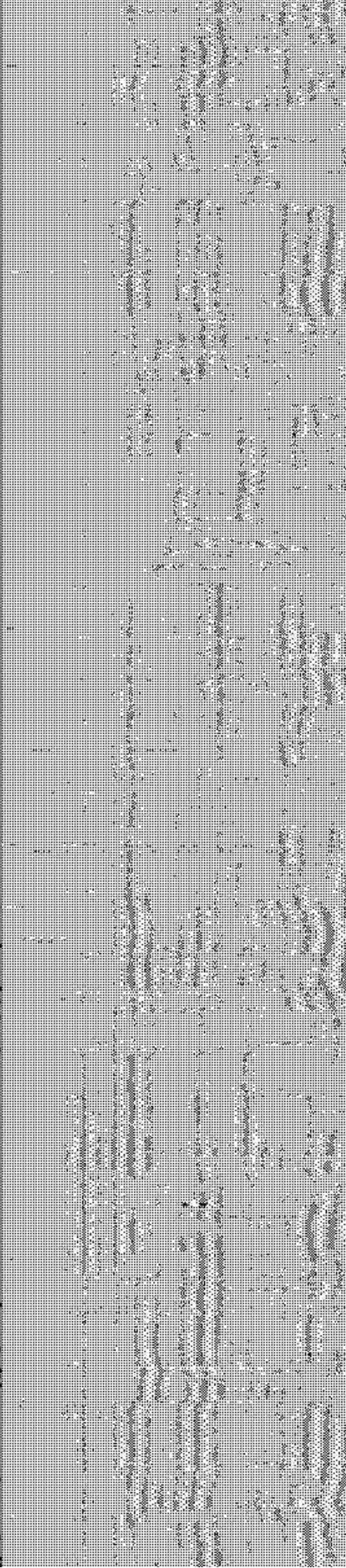
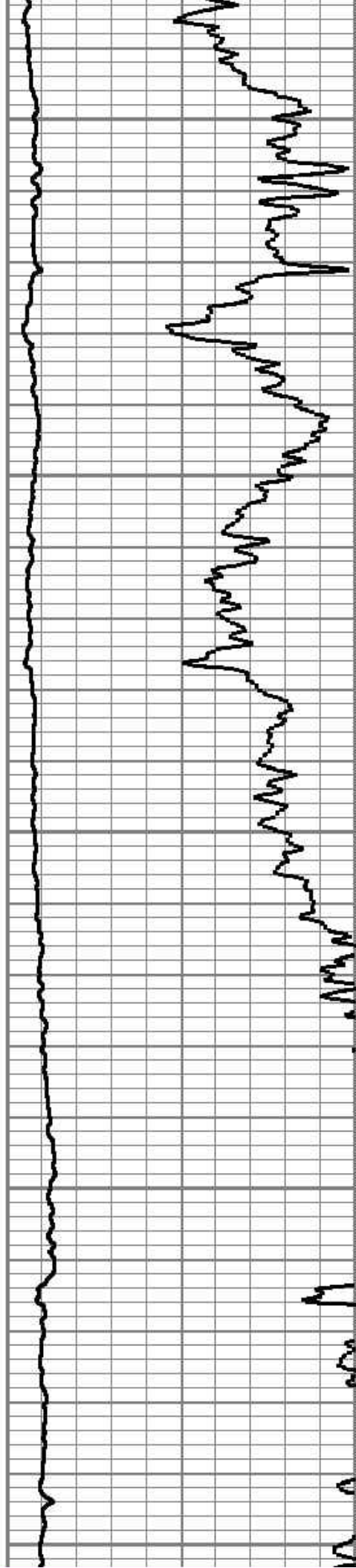
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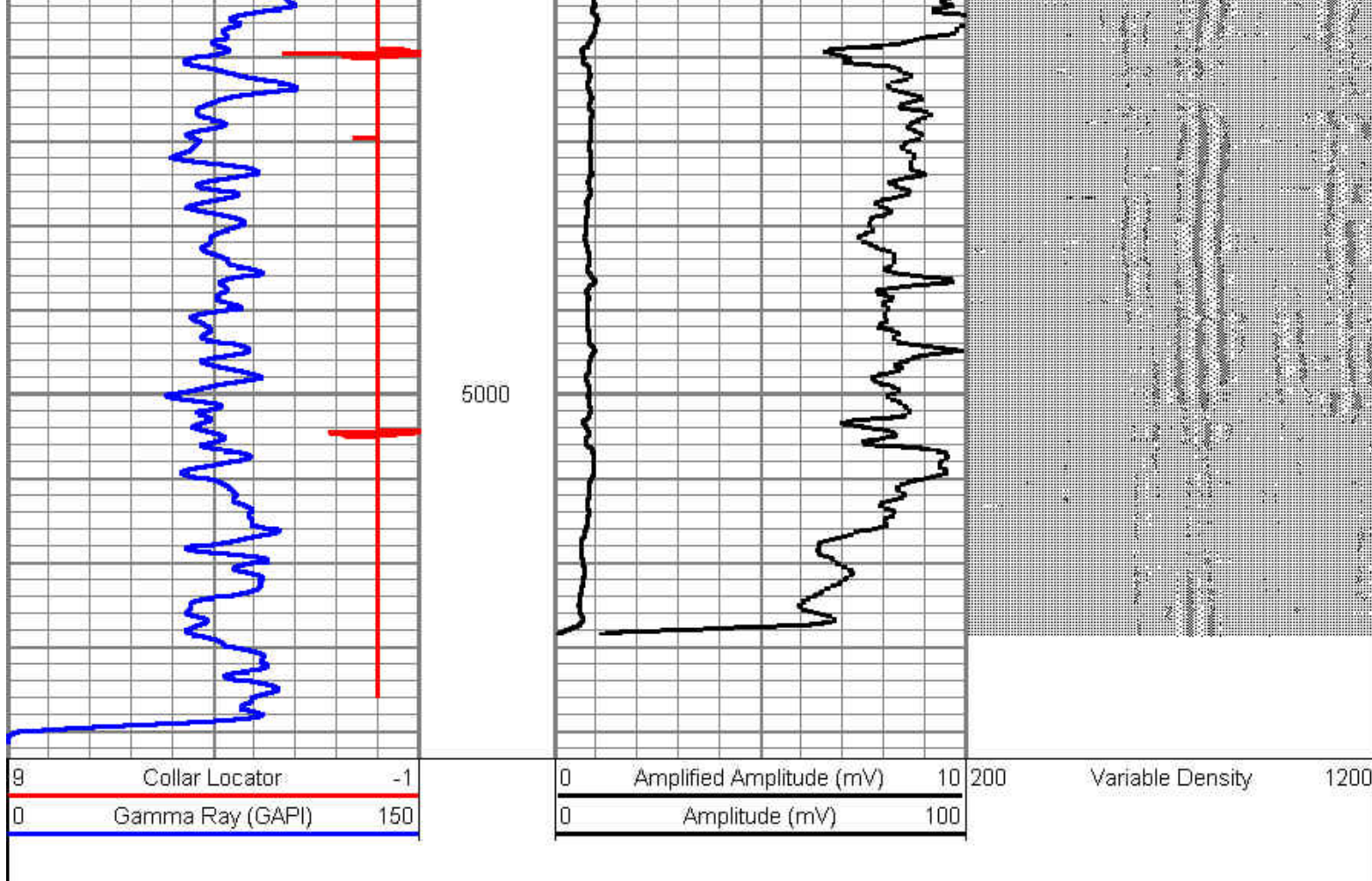




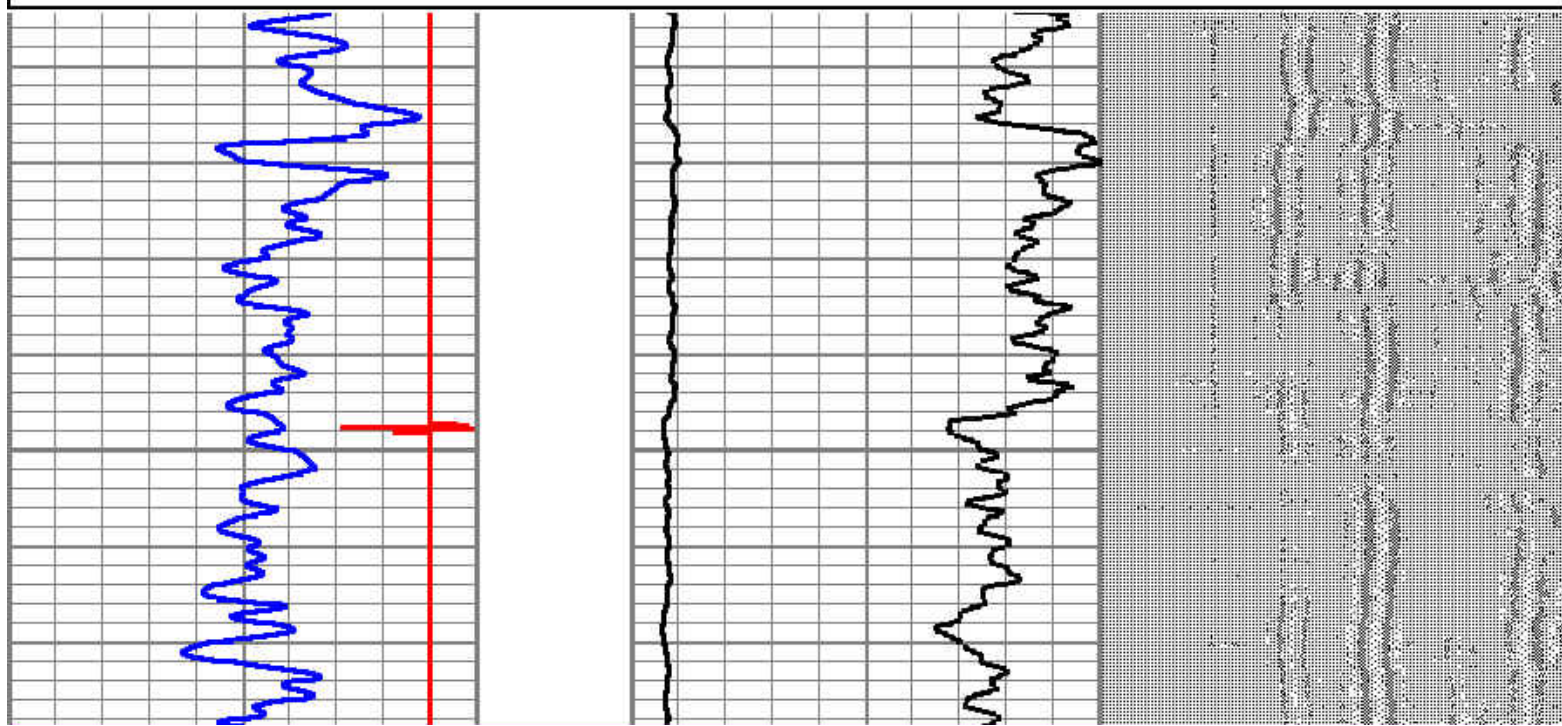
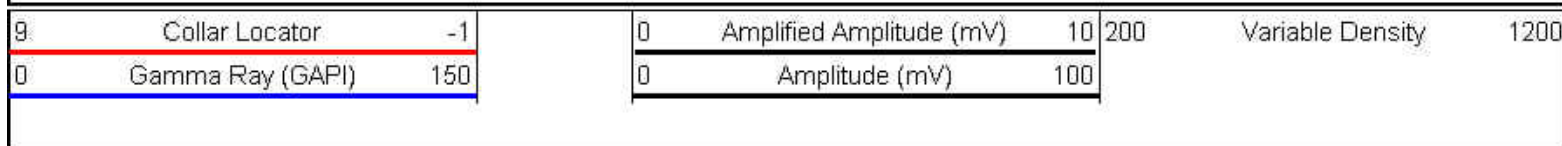
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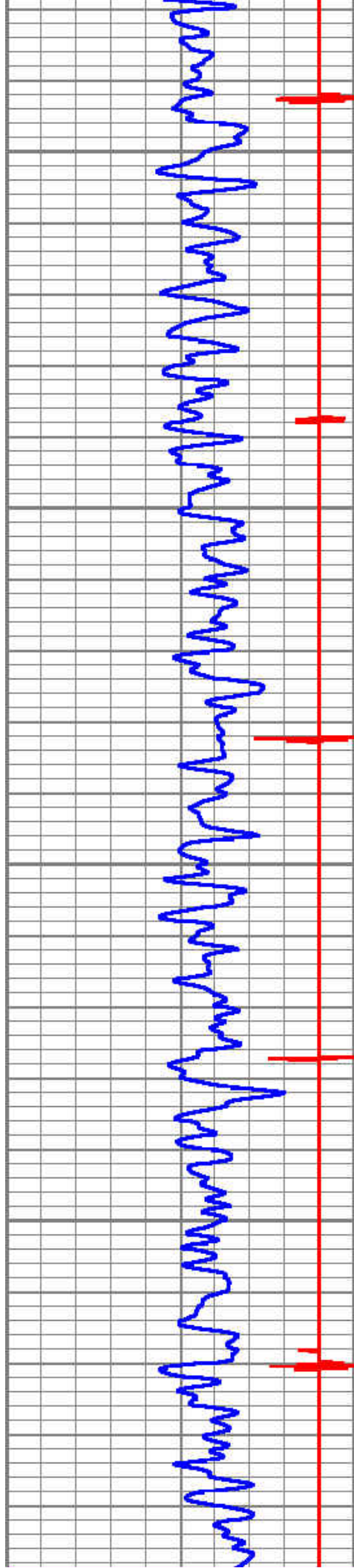
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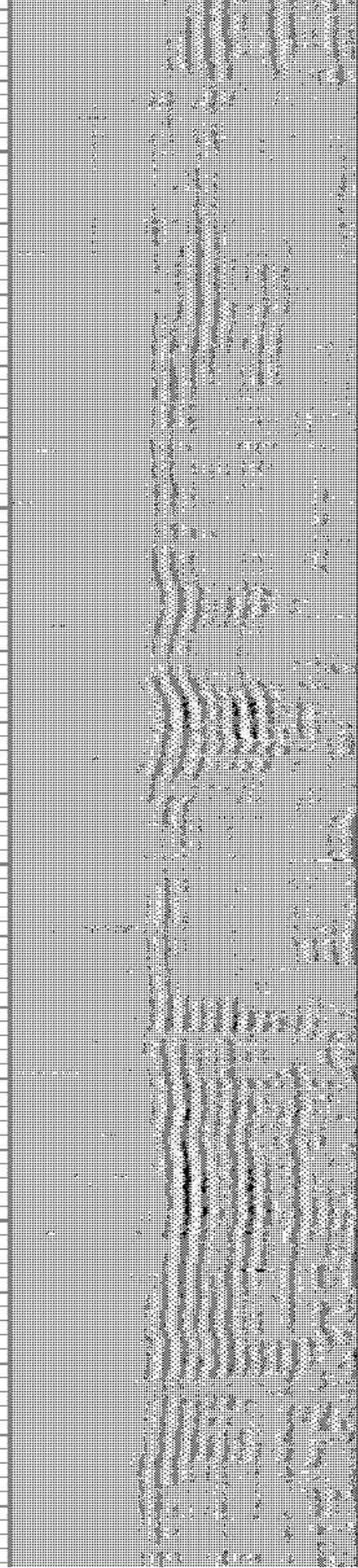
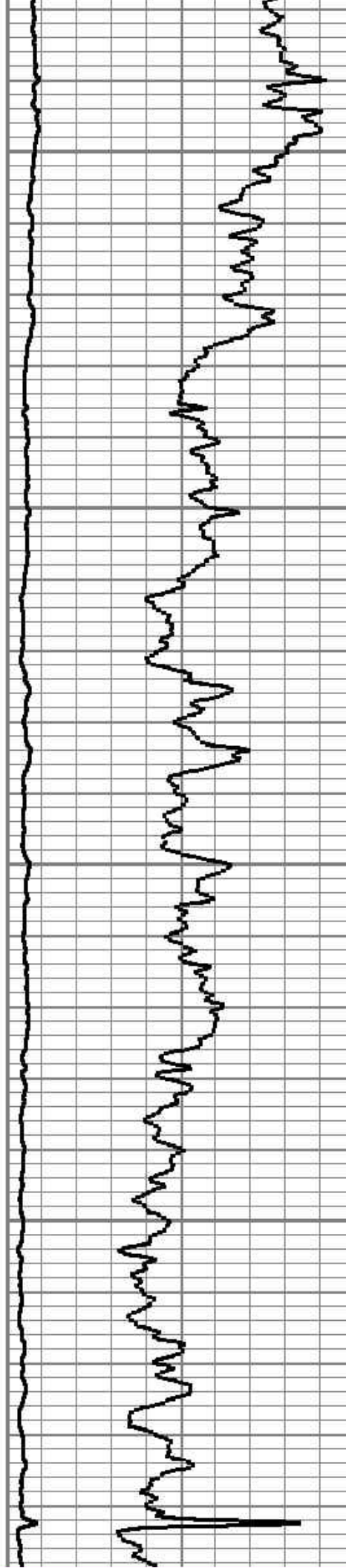
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 Charted by: Depth in Feet scaled 1:240

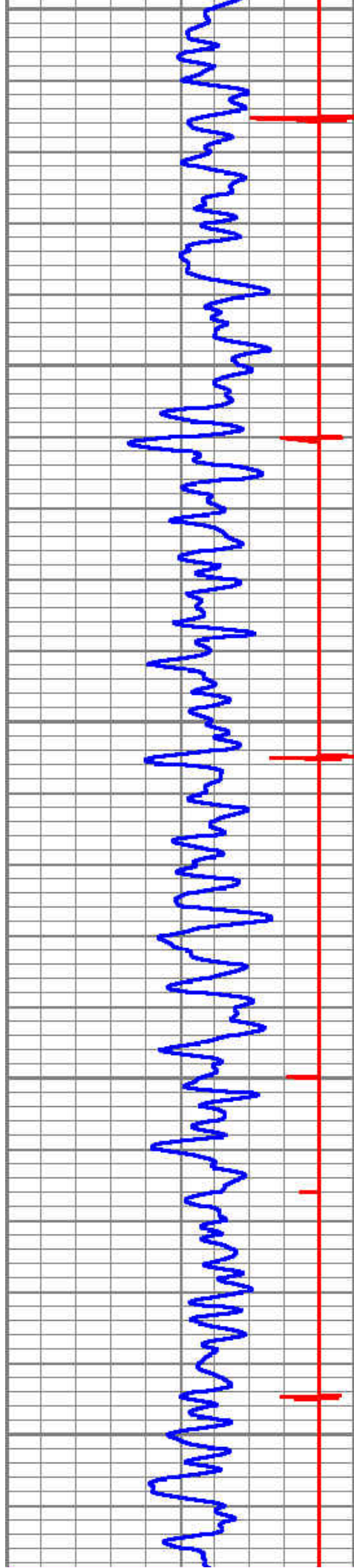




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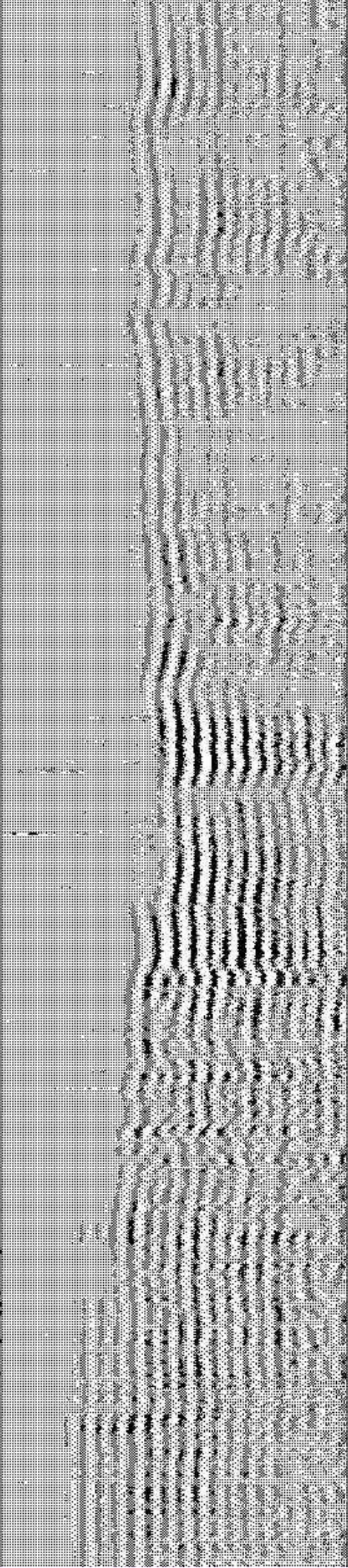
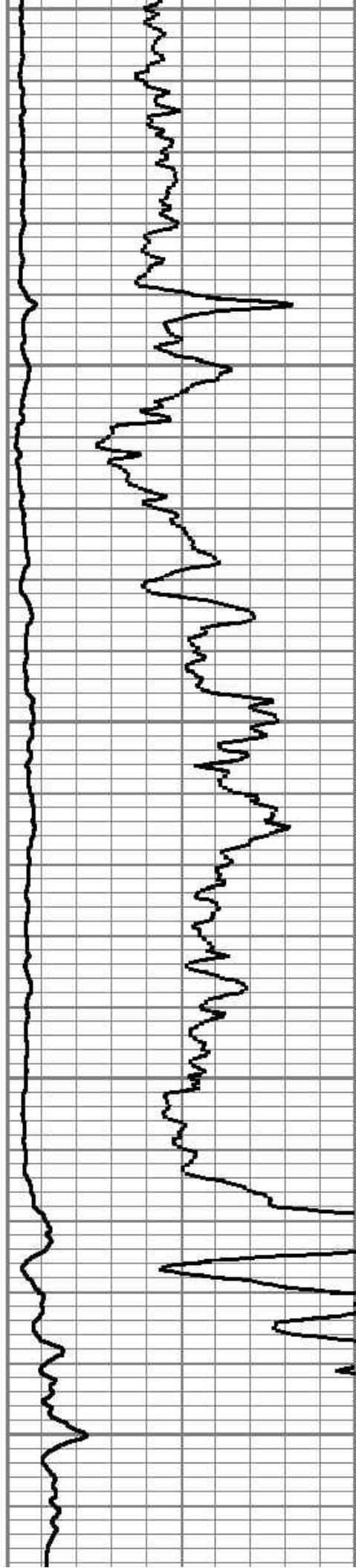


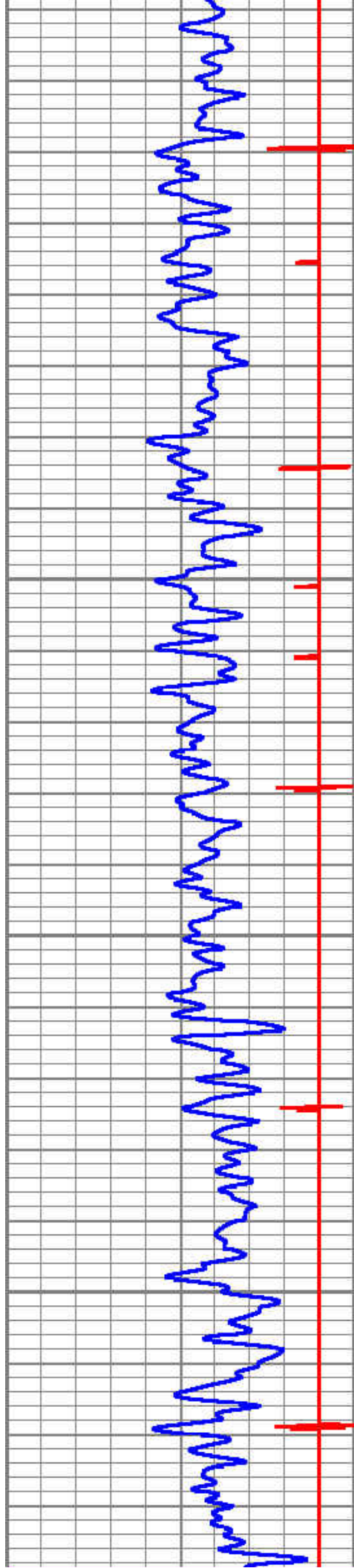


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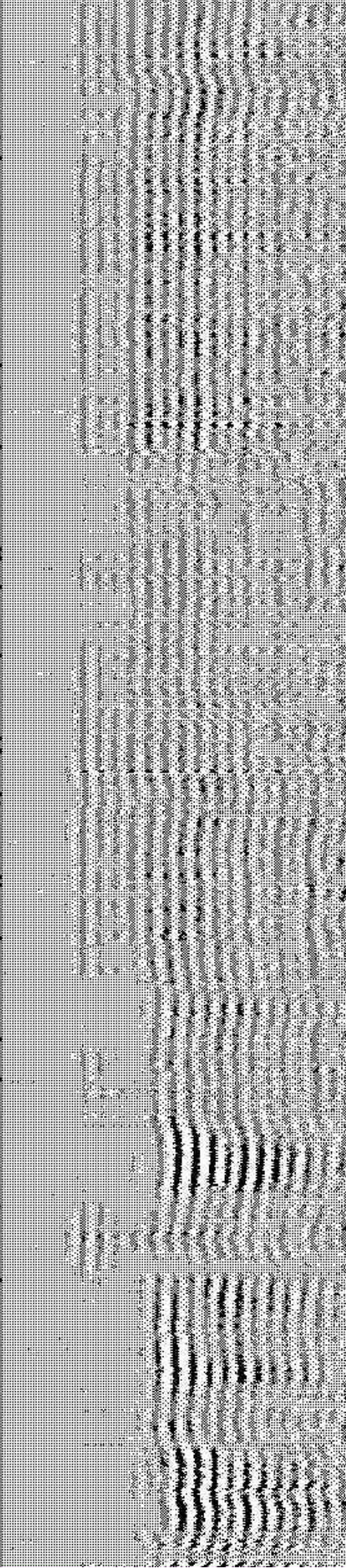
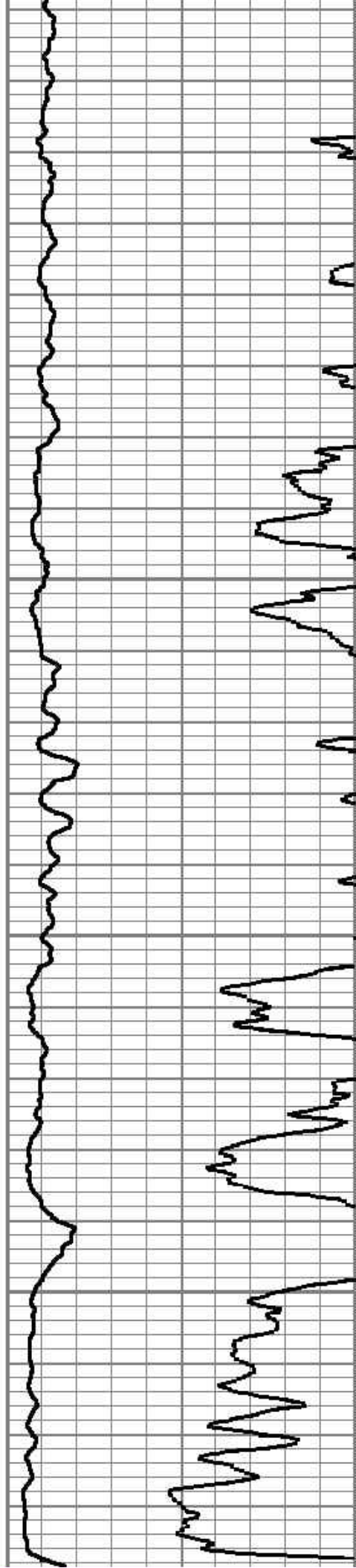
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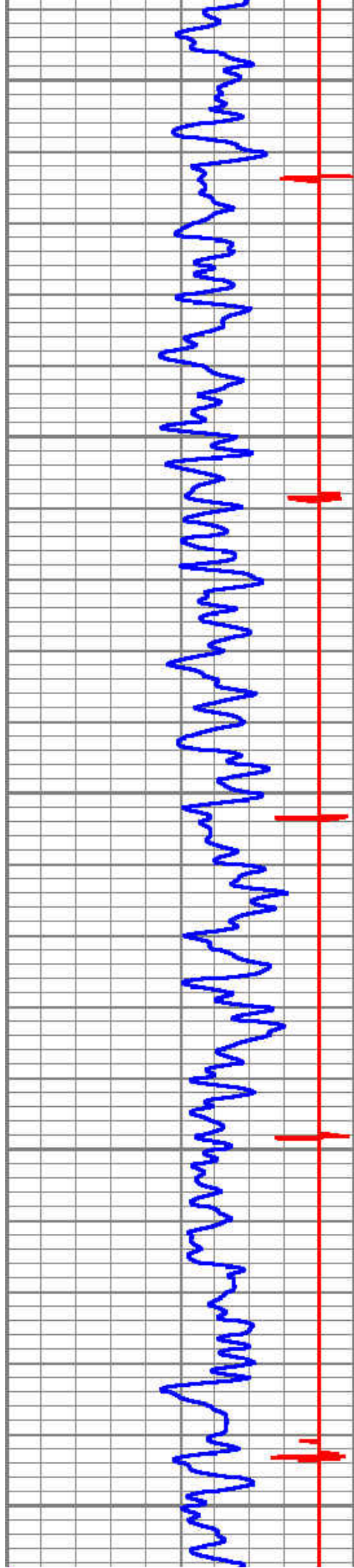




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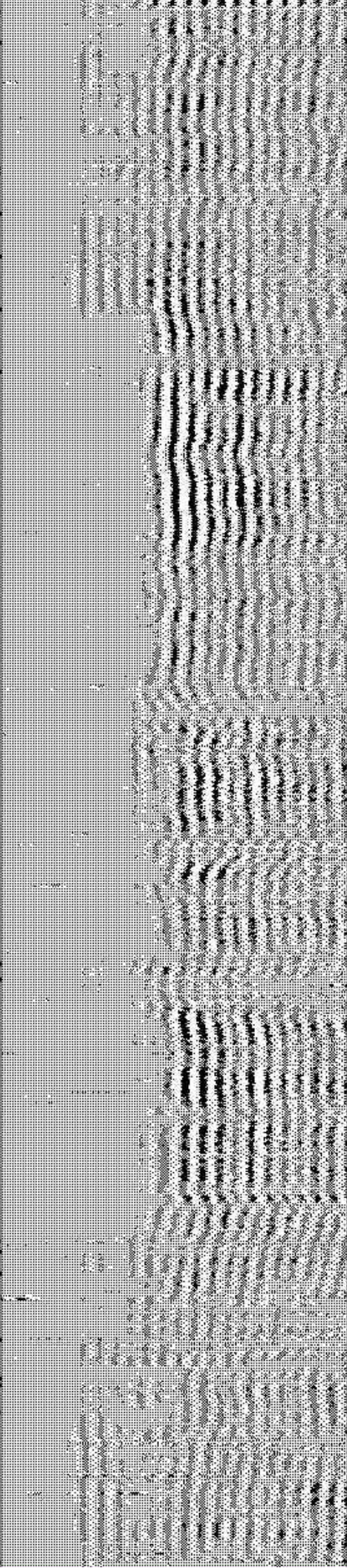
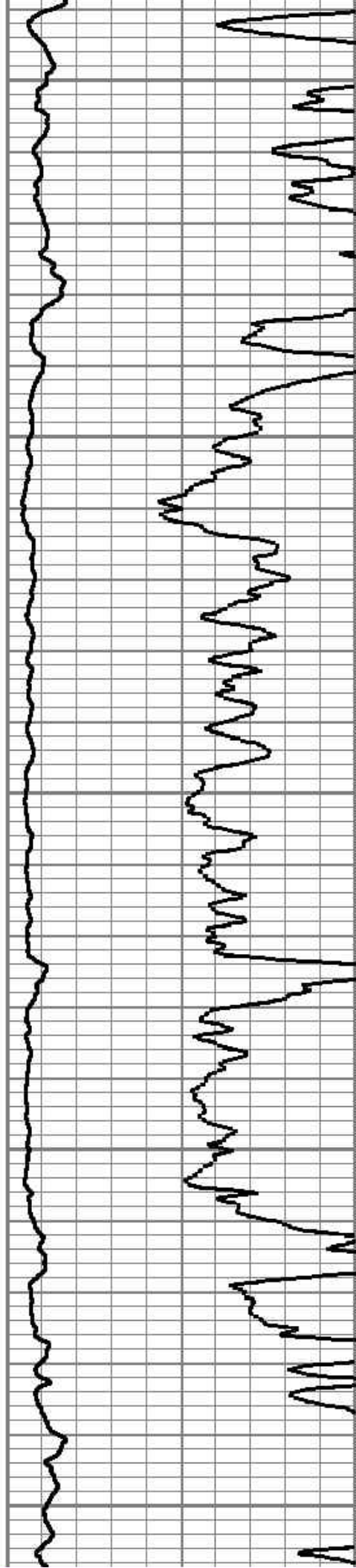
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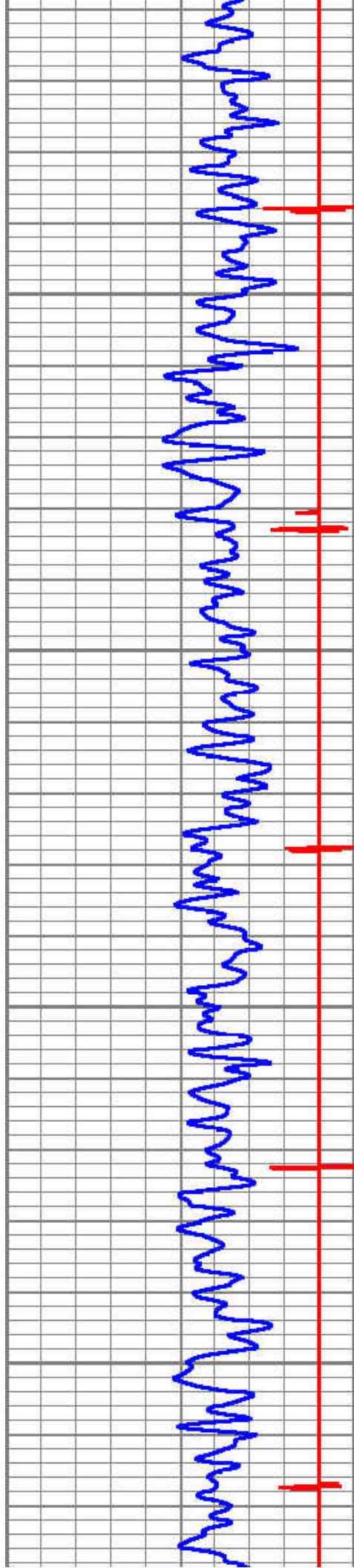




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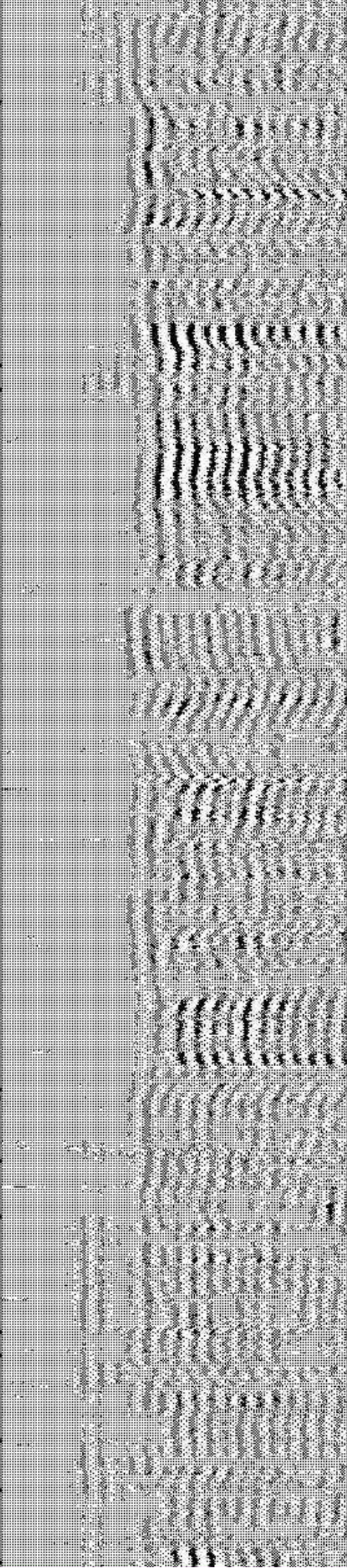
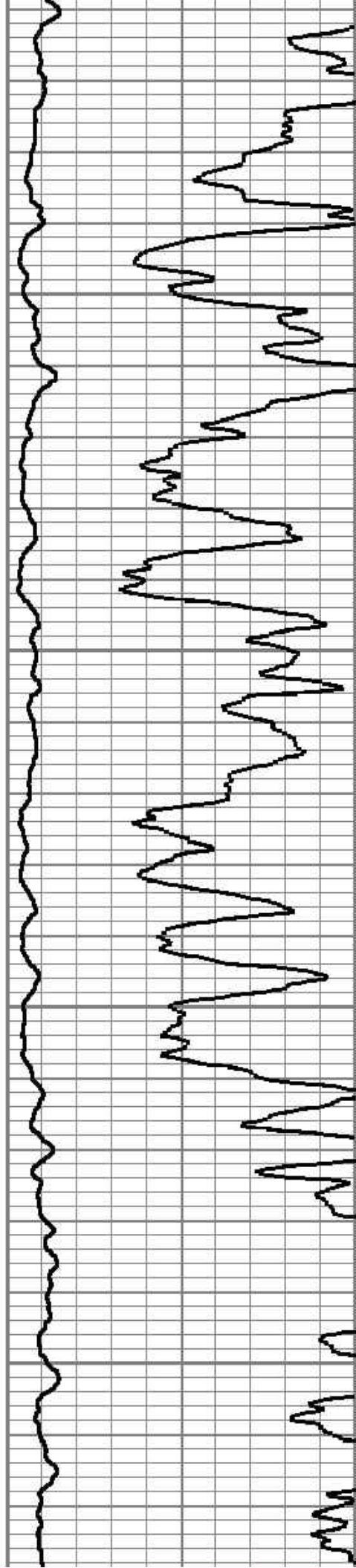
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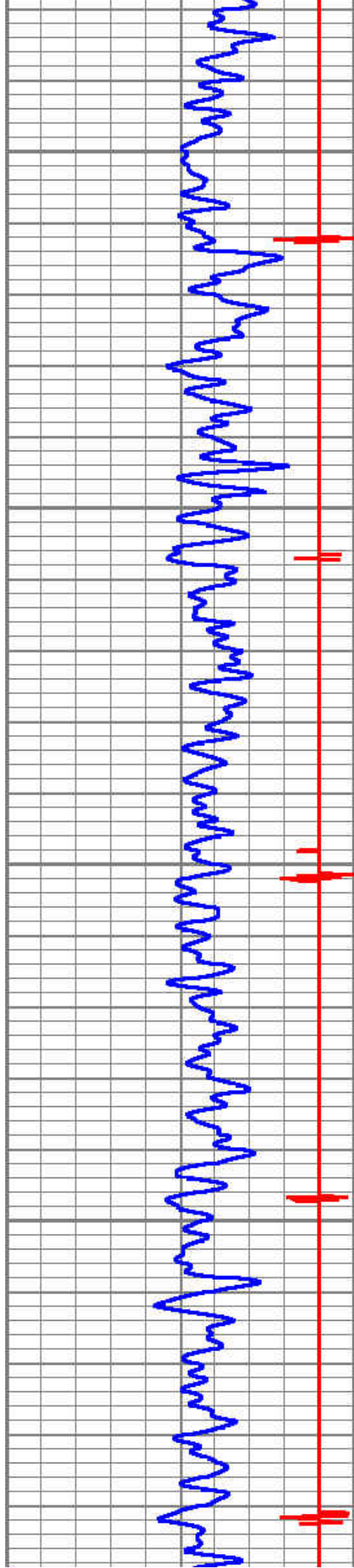




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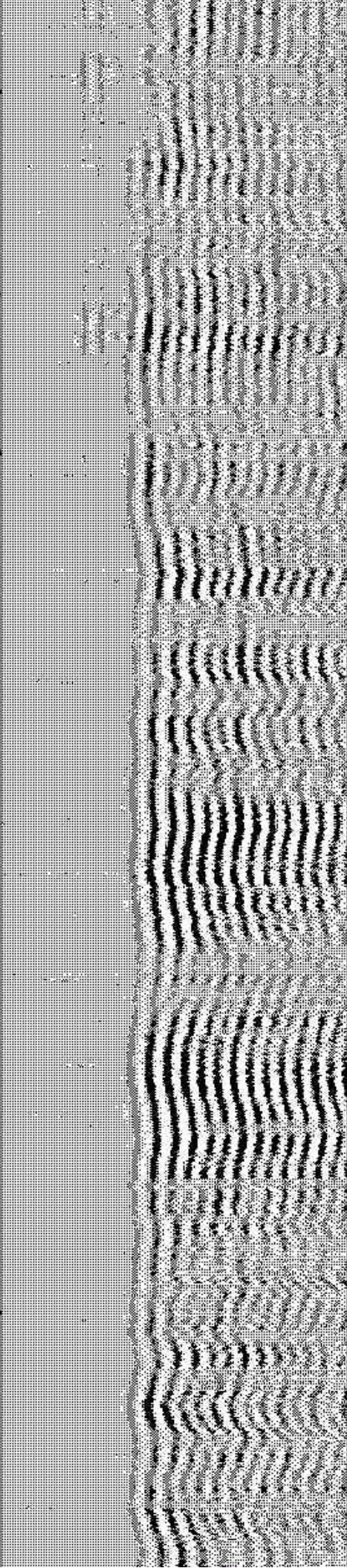
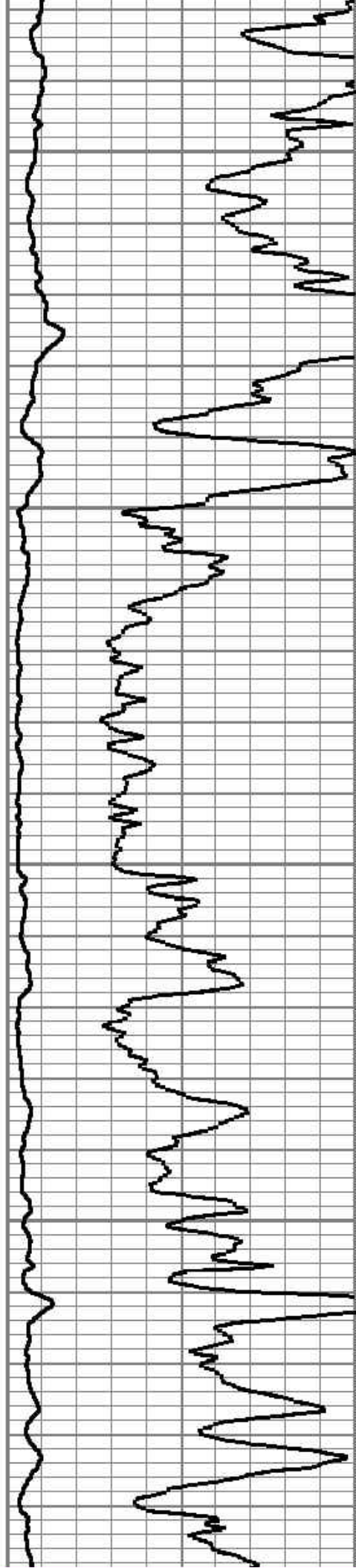
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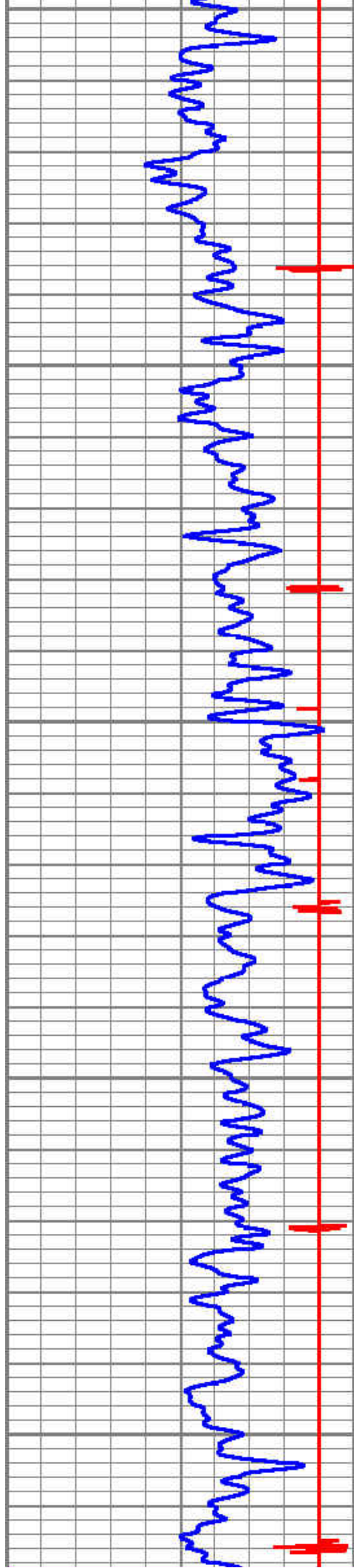




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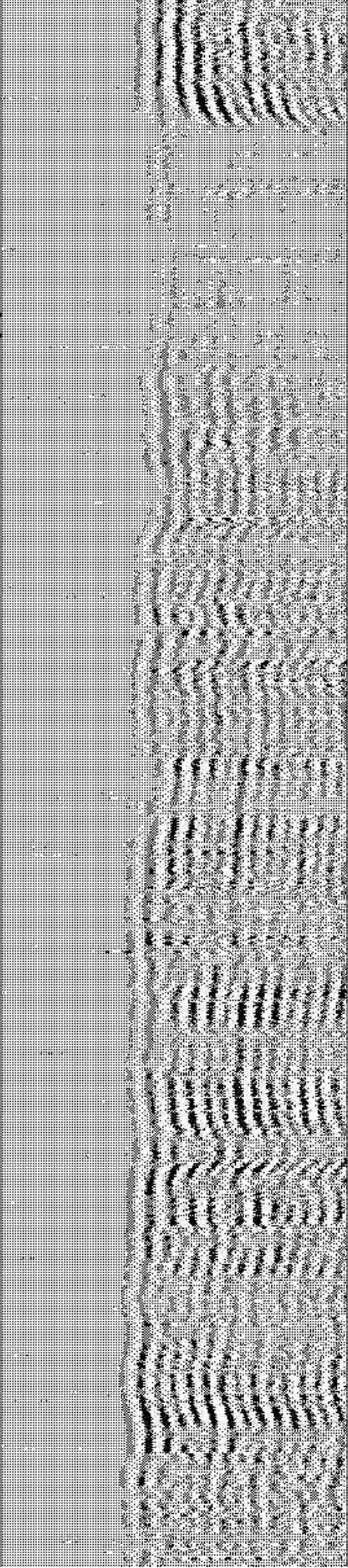
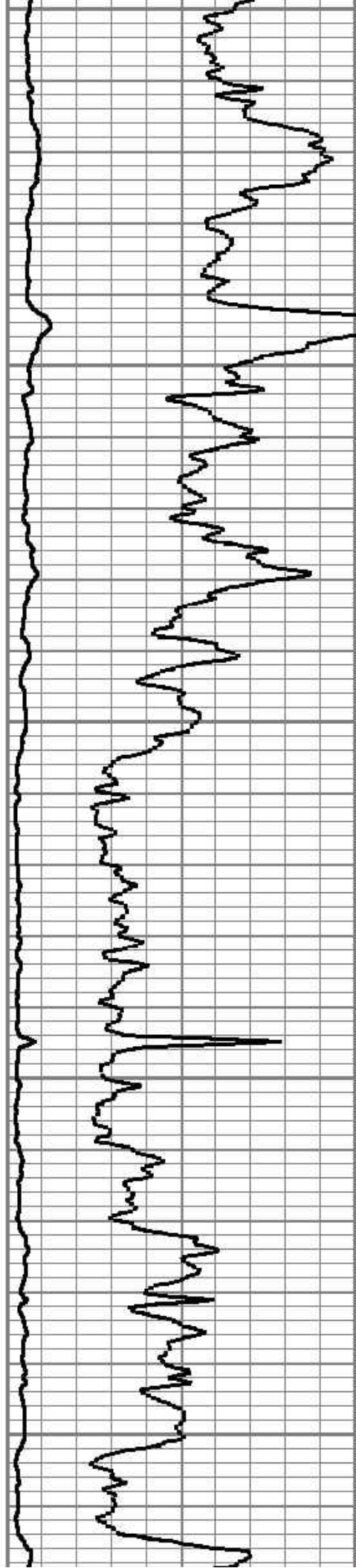


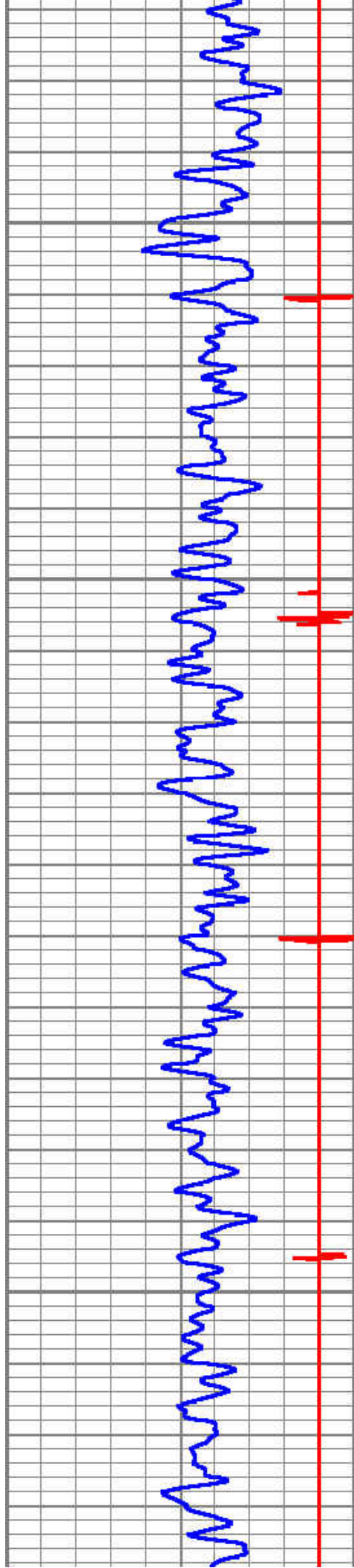


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6400

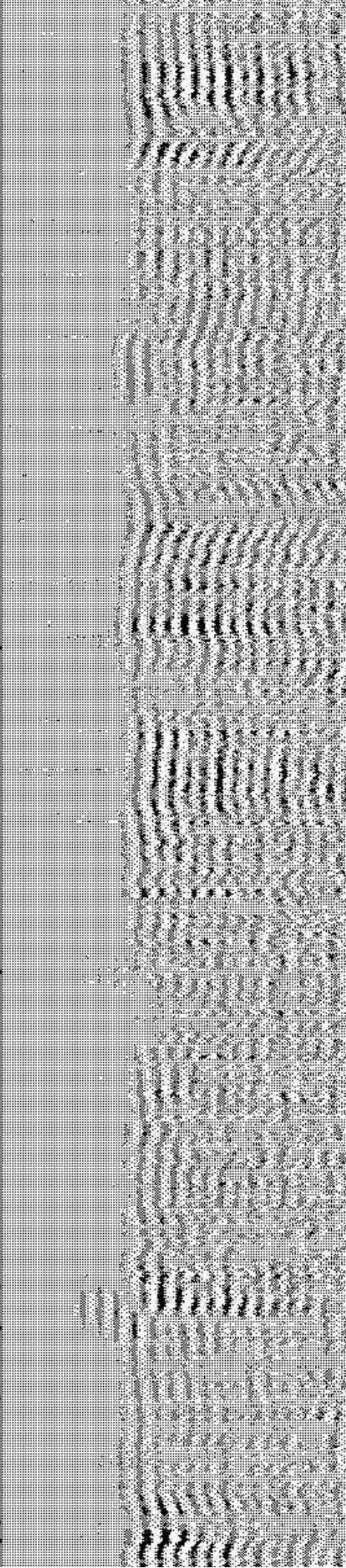
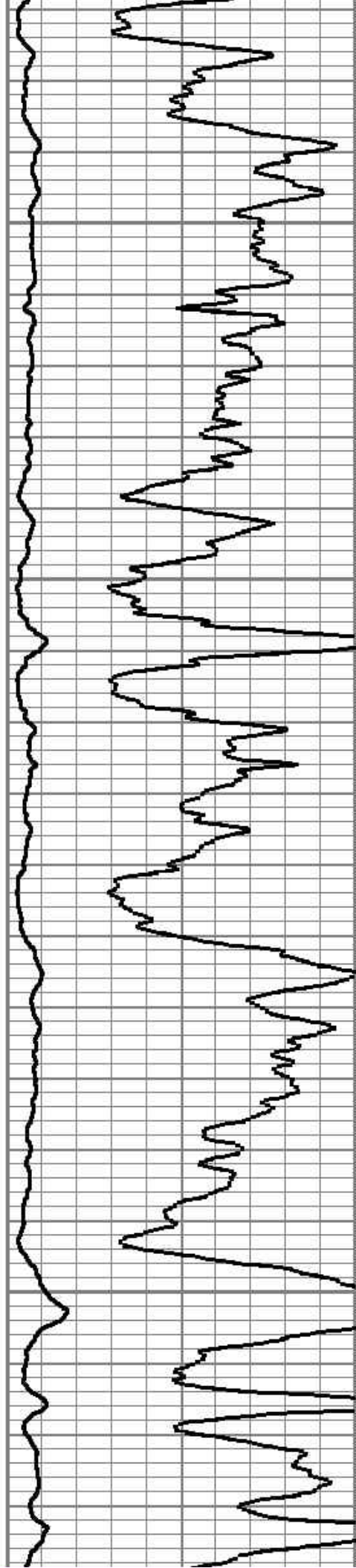
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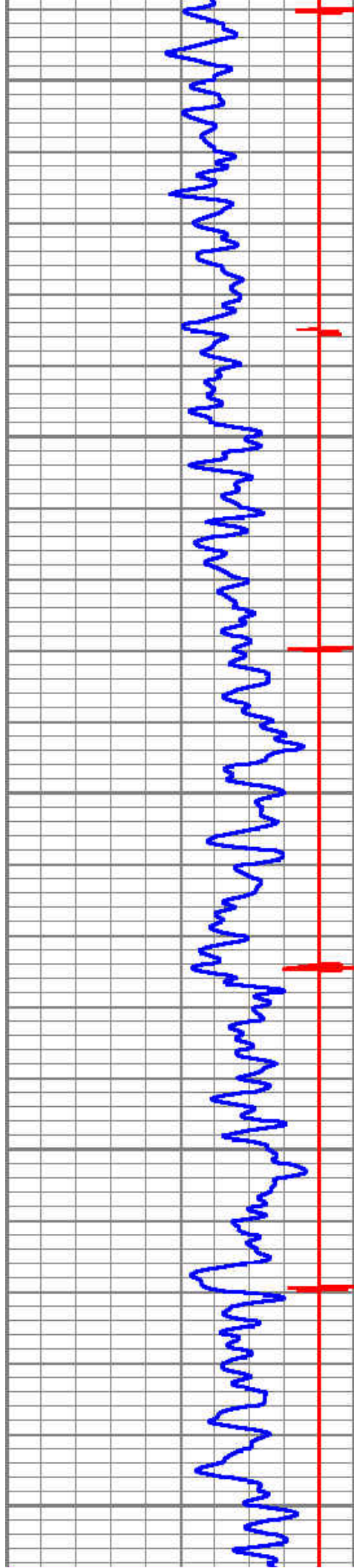




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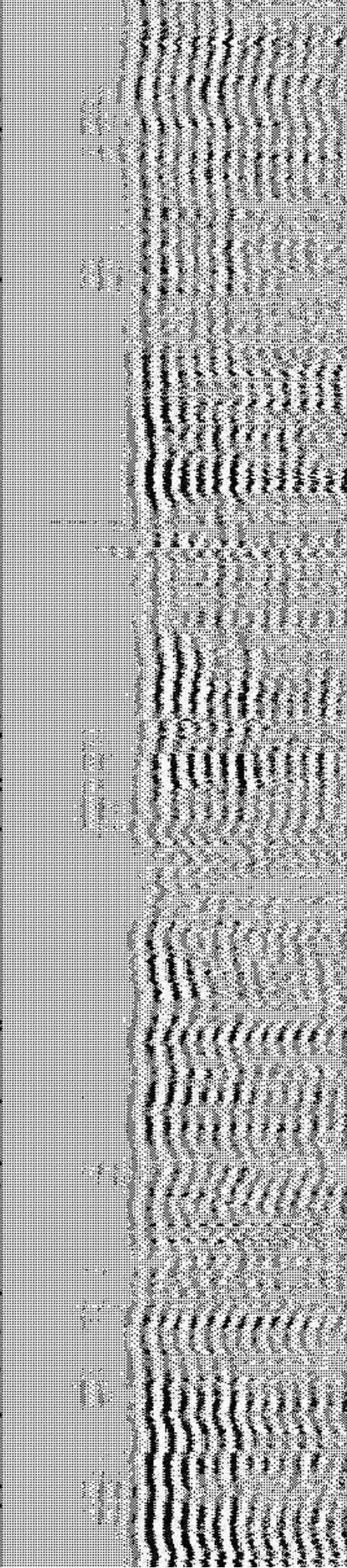
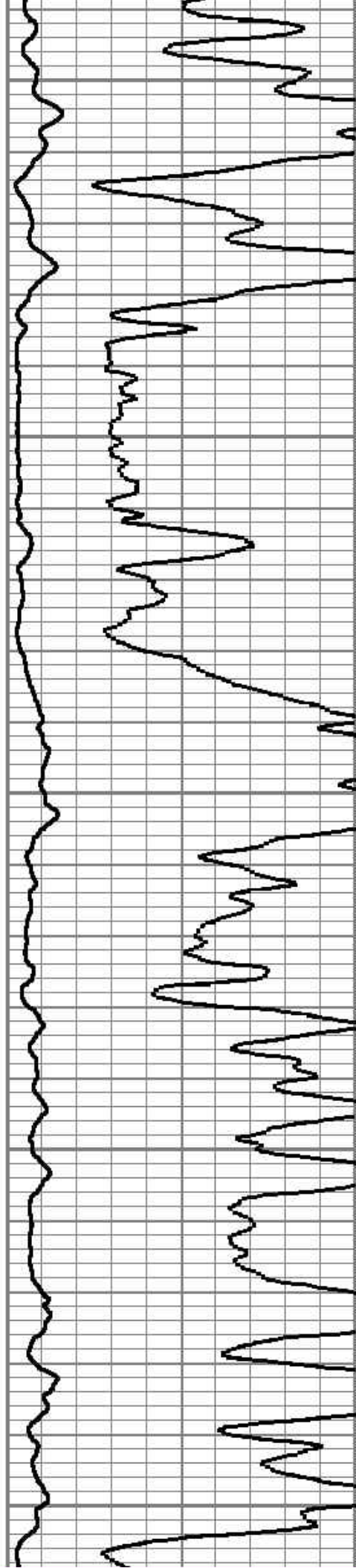
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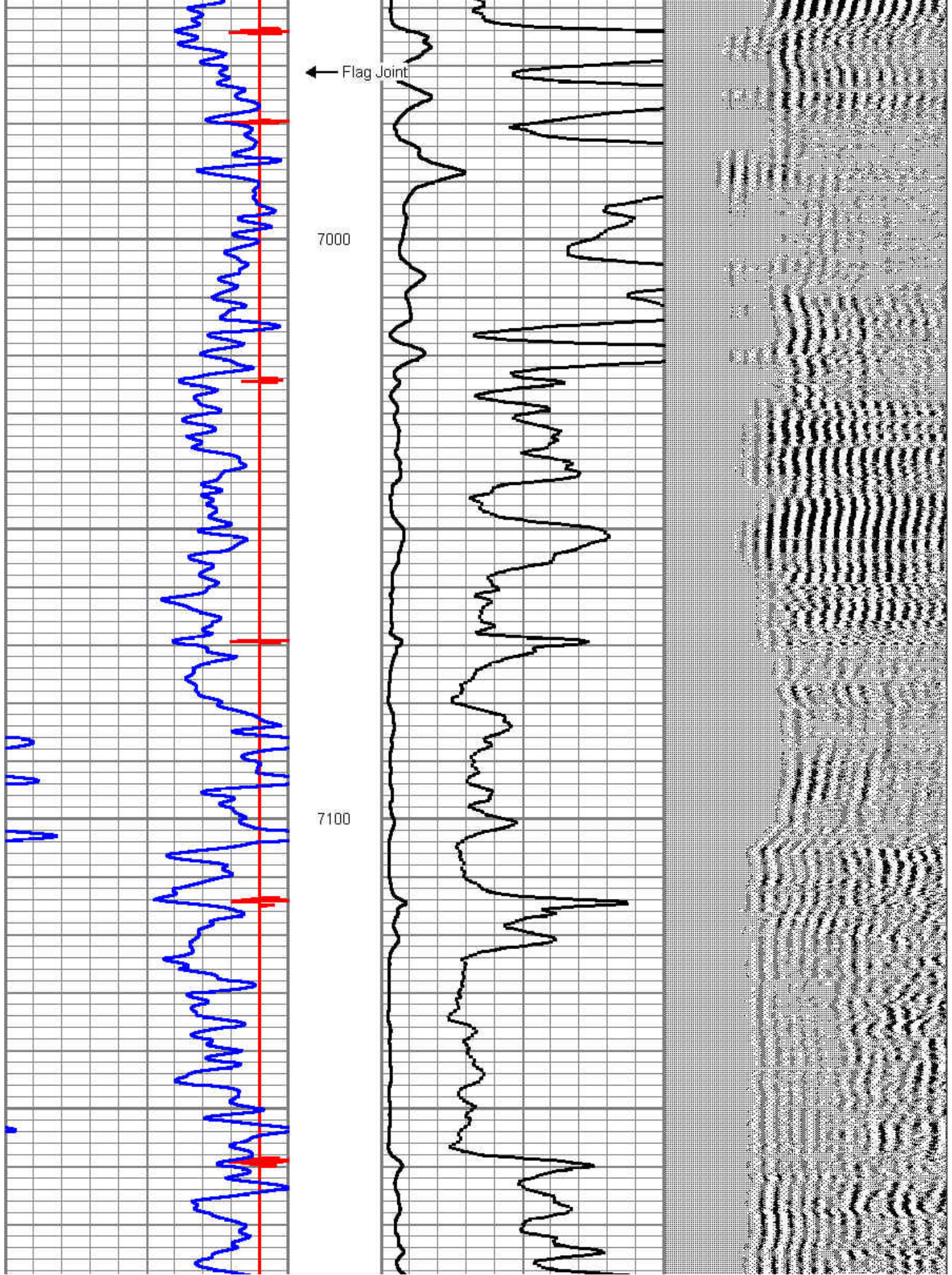


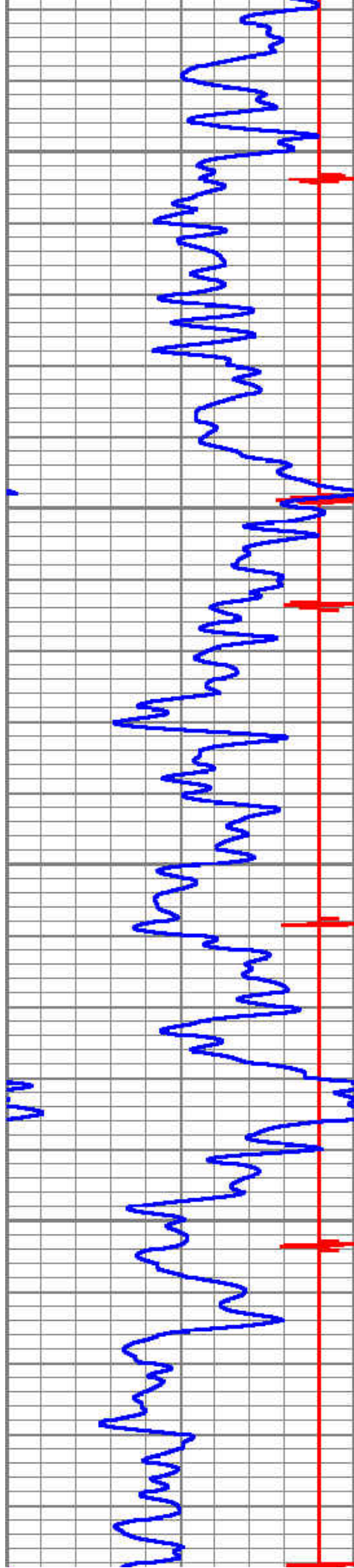


6800

6900







7200

← Flag Joint

7300

