



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

Pioneer Energy Services

Company GREAT WESTERN OIL & GAS LLC  
Well HCW FD 24-35 D  
Field WATTENBERG  
County WELD  
State COLO.

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Field WATTENBERG  
County WELD State COLO.

Location: API #: 05123355990000  
SHL: 30' FSL & 23868 FWL SESW SEC. 24  
BHL: 18' FNL & 1310' FWL NWNW  
SEC 25 TWP 6N RGE 67W  
Permanent Datum GL Elevation 4744  
Log Measured From KB  
Drilling Measured From KB  
Other Services  
K.B. 4758  
D.F. 4757  
G.L. 4744

Date	11-5-12
Run Number	1
Depth Driller	7323
Depth Logger	7324
Bottom Logged Interval	7312
Top Log Interval	1600
Open Hole Size	7 7/8"
Type Fluid	
Density / Viscosity	
Max. Recorded Temp.	230
Estimated Cement Top	1890
Time Well Ready	ROA
Time Logger on Bottom	AM
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. # 2-203639

THANK YOU FOR USING PIONEER ENERGY SERVICES.  
64 3/4 & 23 3/4 NORTH ACROSS TRACKS WEST .2 MILES

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

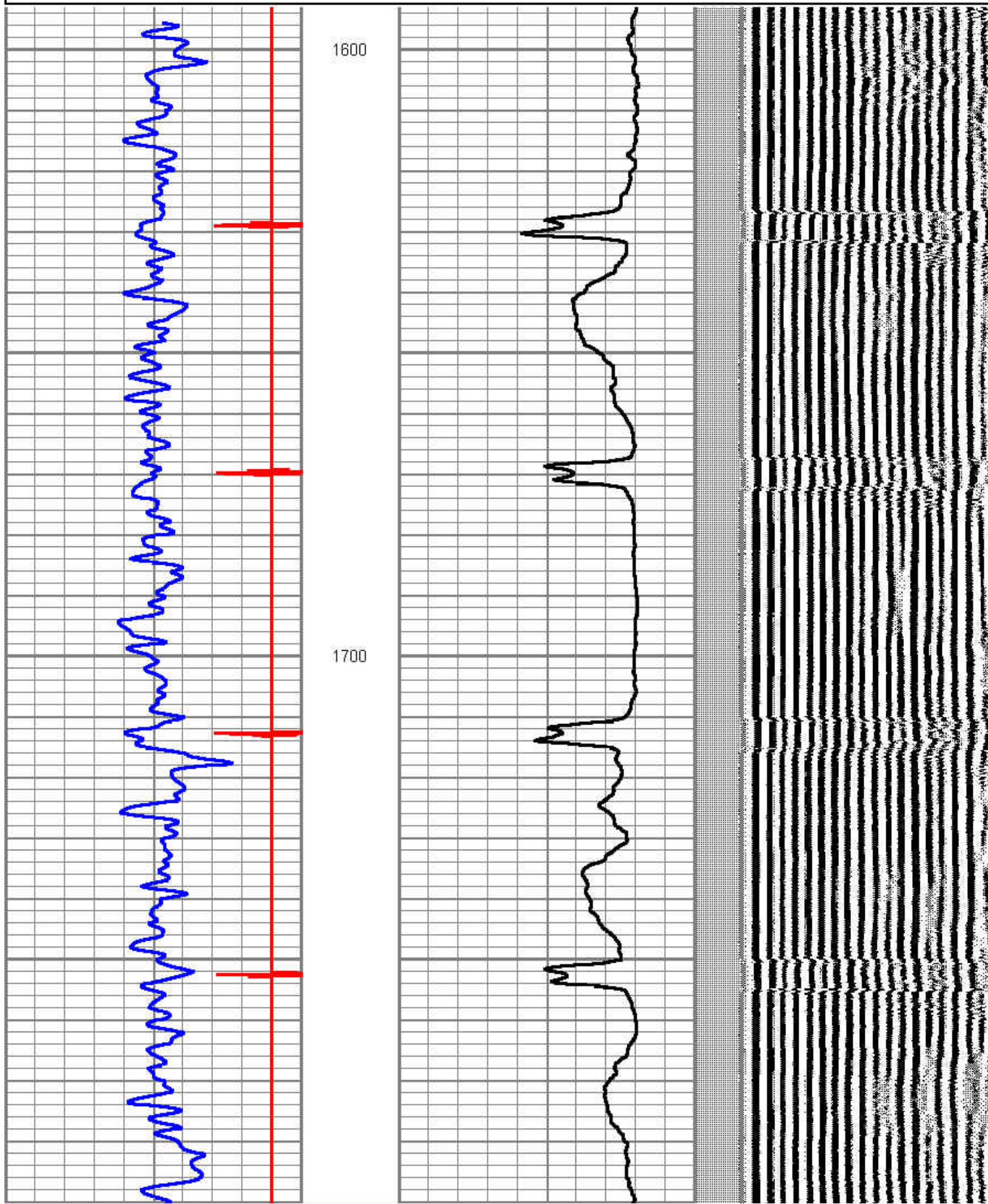
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
WVF3	12.48					
WVF5	11.48		CBL-Probe (110215) 2.75 digital probe	8.75	2.75	106.50
			cent.-Probe (cent) probe cent.	2.88	2.75	25.00
CCL	4.13		CCL-Probe (081119)	2.02	2.75	
GR	0.79		GR-Probe275dig (110249) Probe Digital Gamma-Ray	3.33	2.75	57.00
Dataset: hcw fd 24-35 d.db: field/well/run1/pass13 Total Length: 20.85 ft Total Weight: 214.50 lb O.D.: 2.75 in						



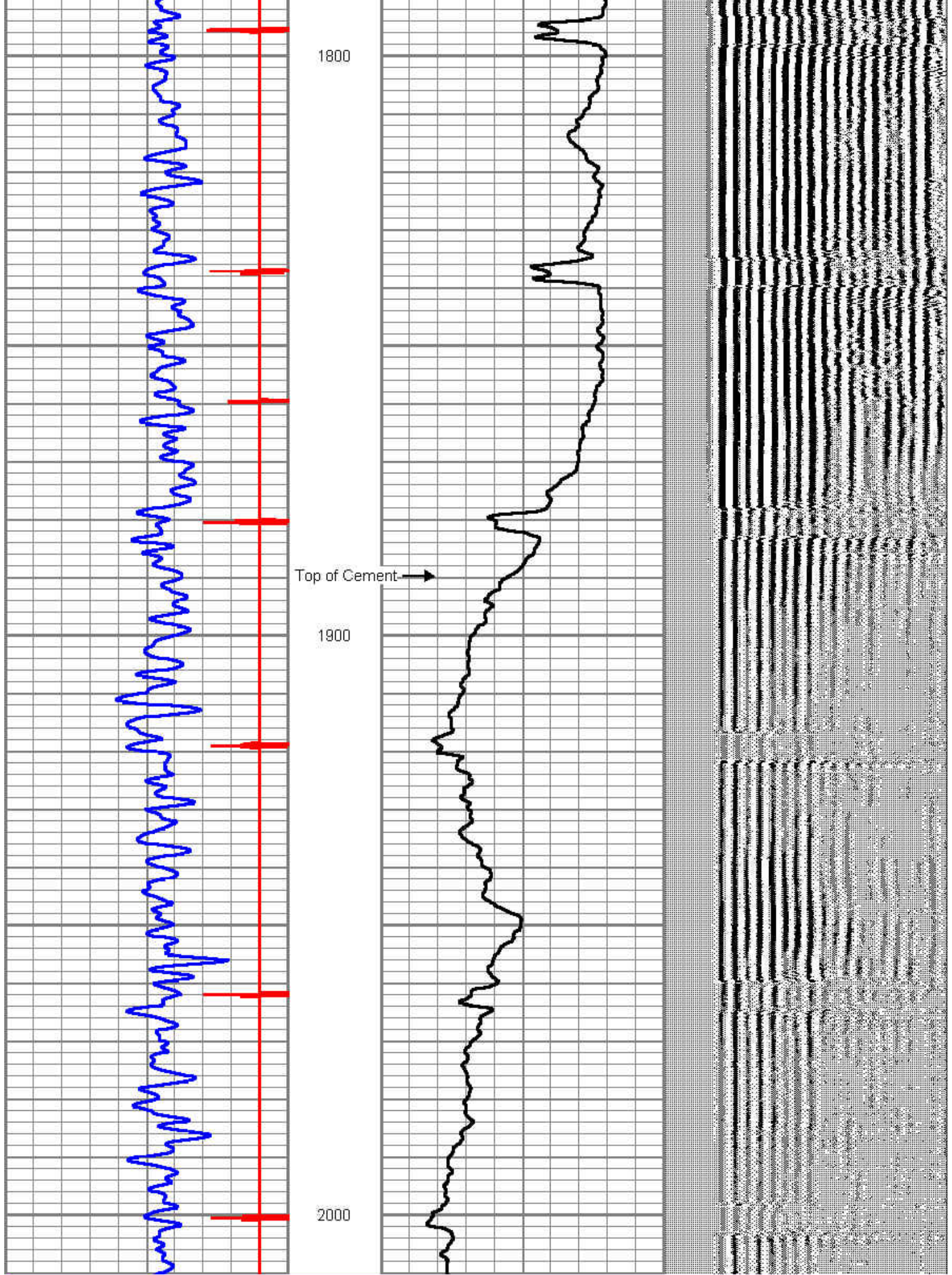
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150

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

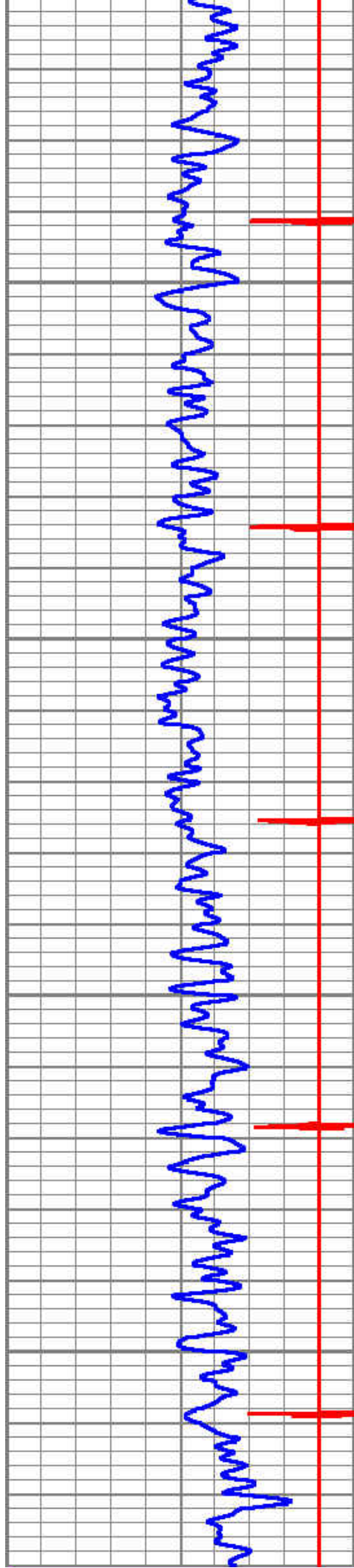
200 Variable Density 1200





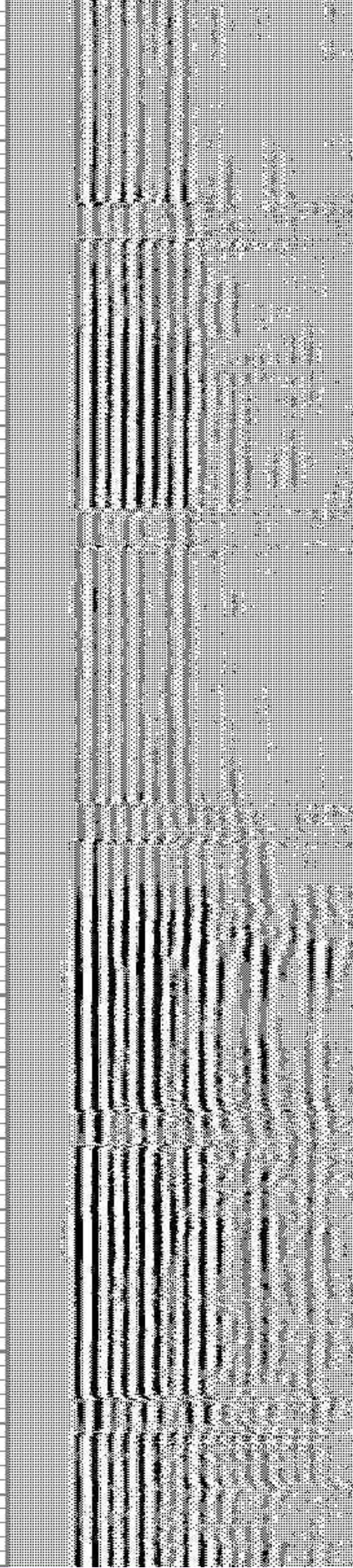
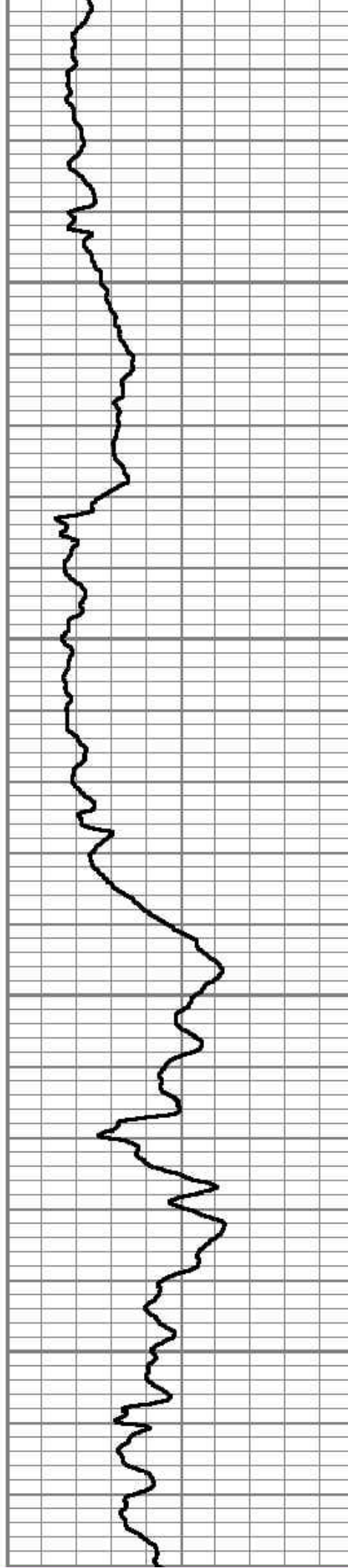




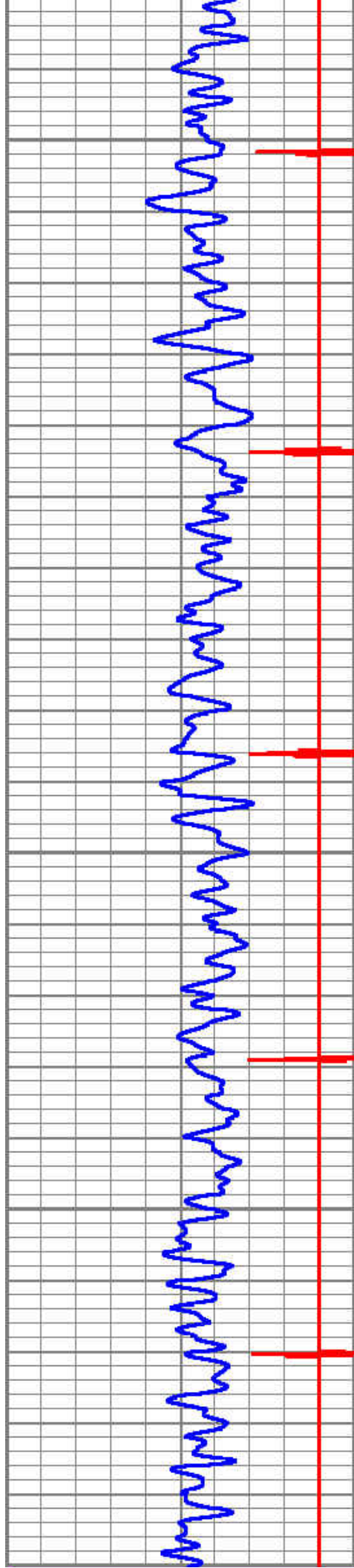


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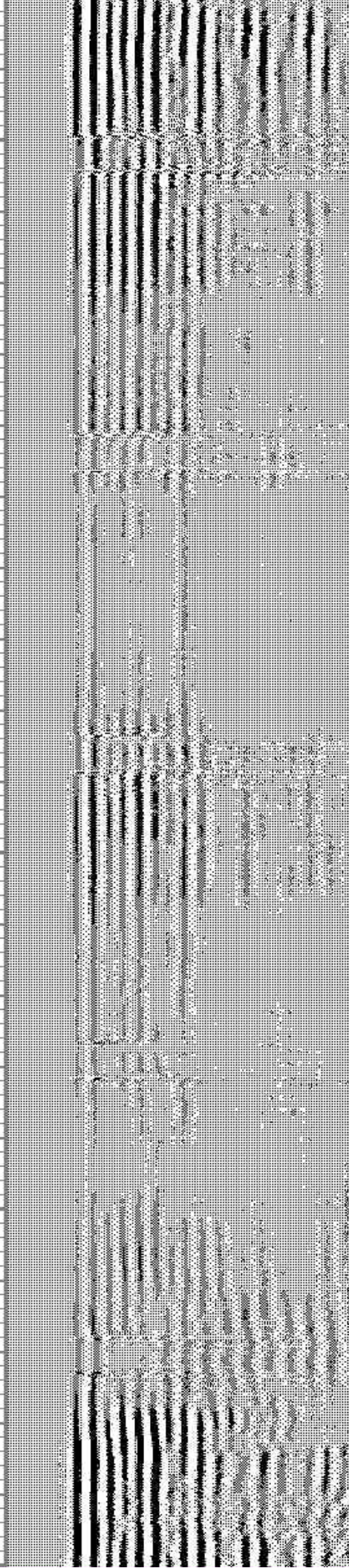
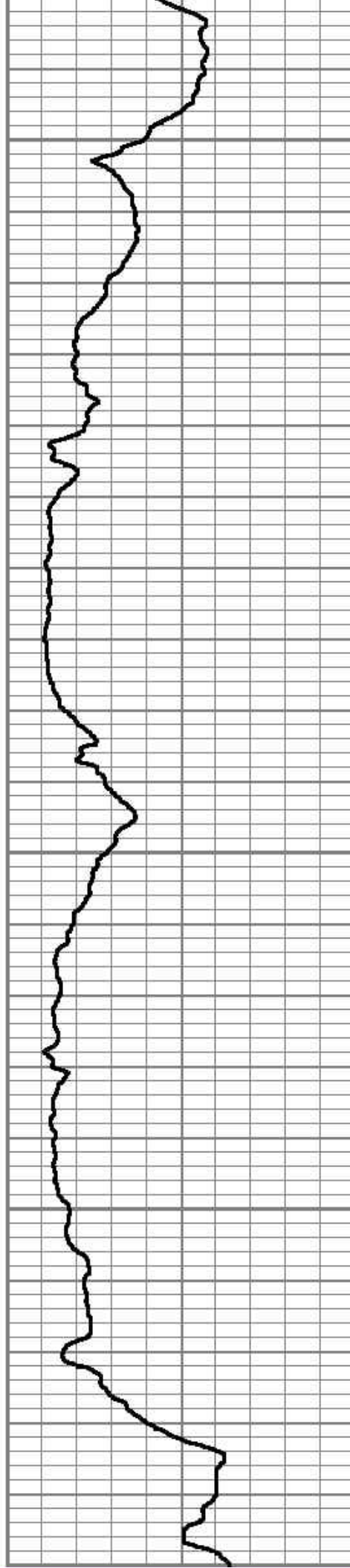




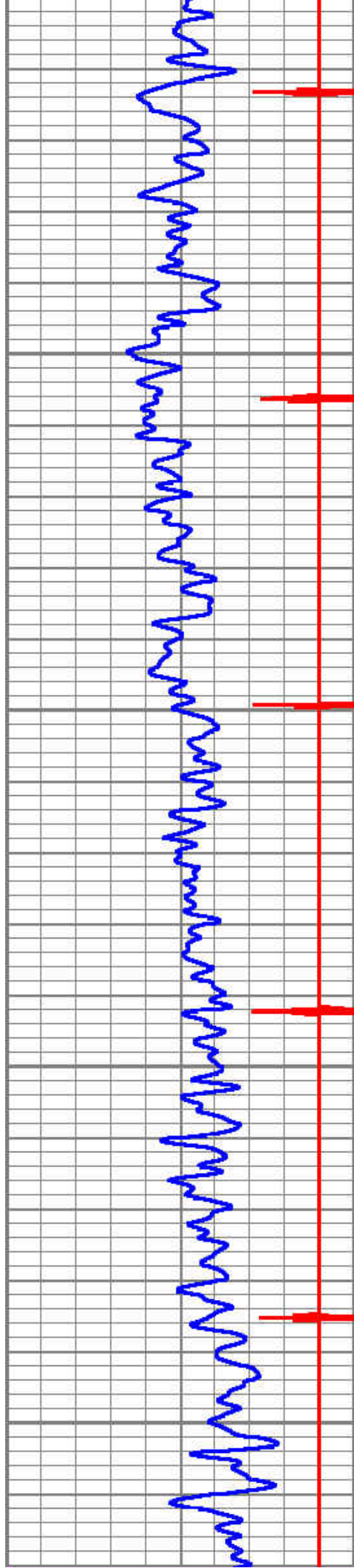


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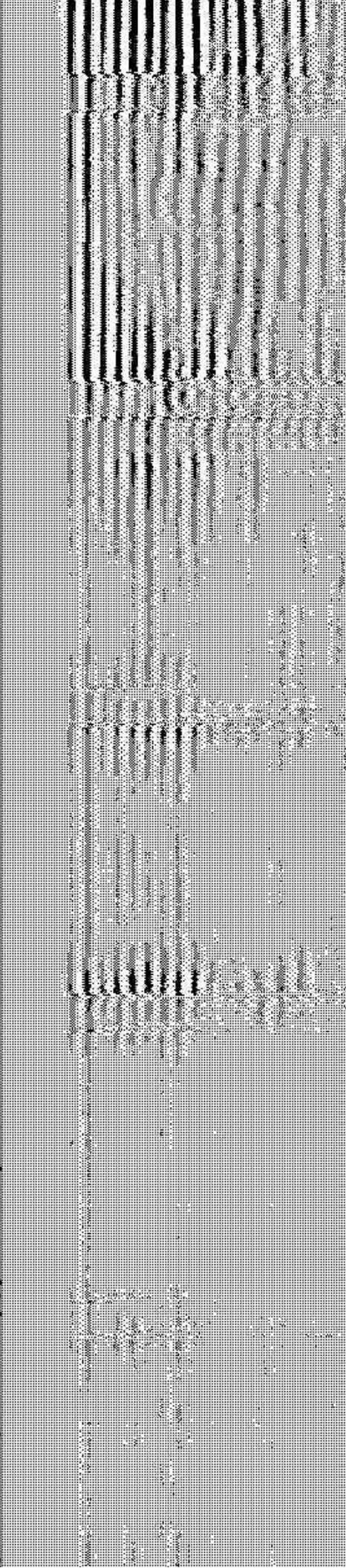
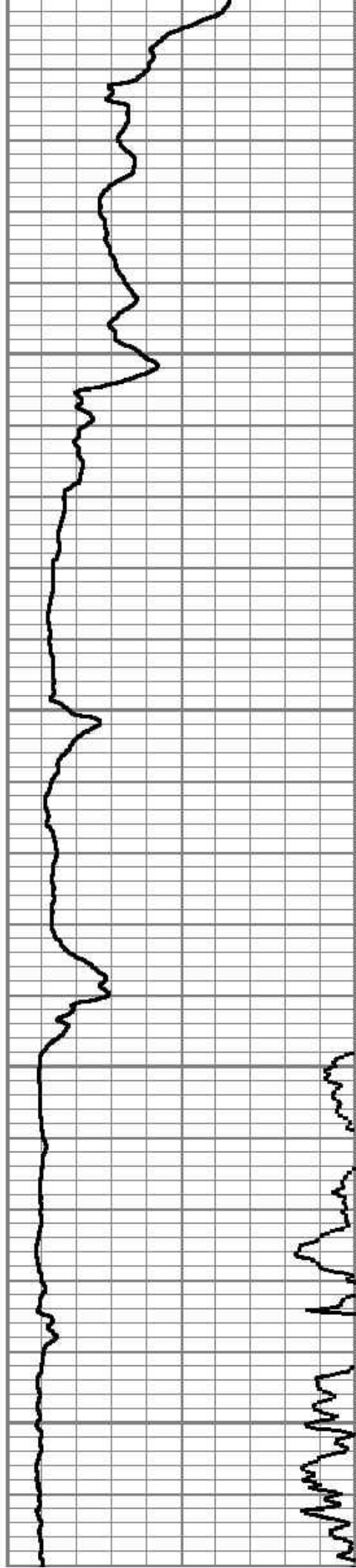




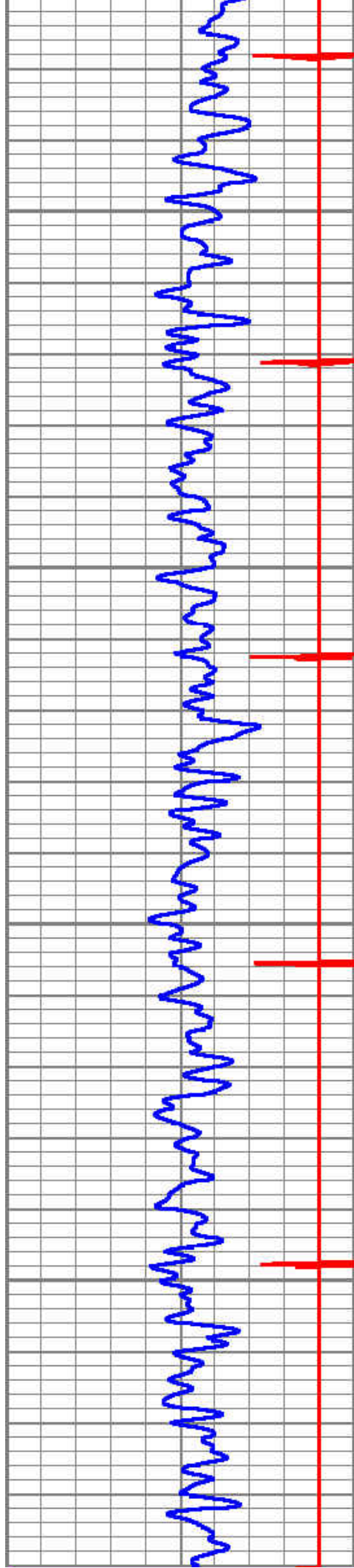


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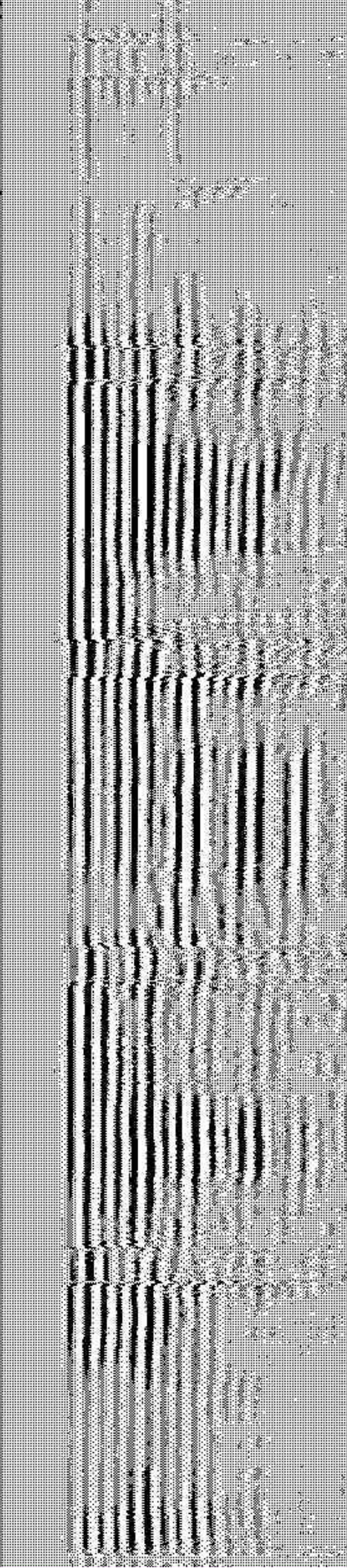
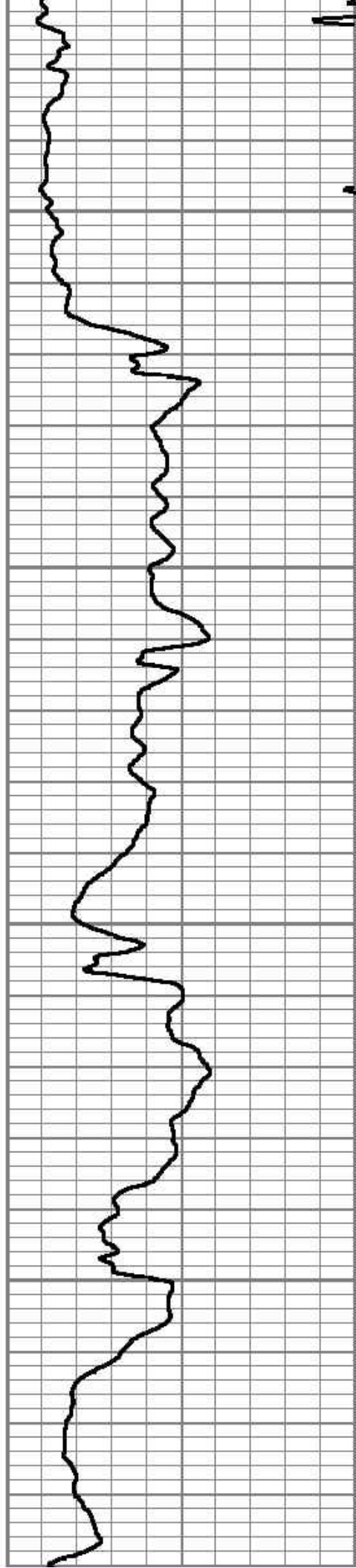




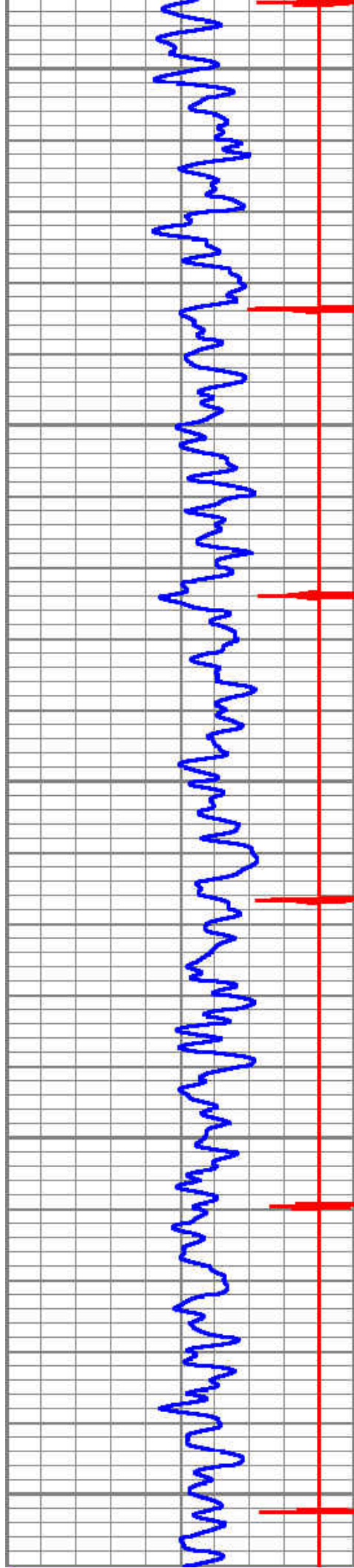


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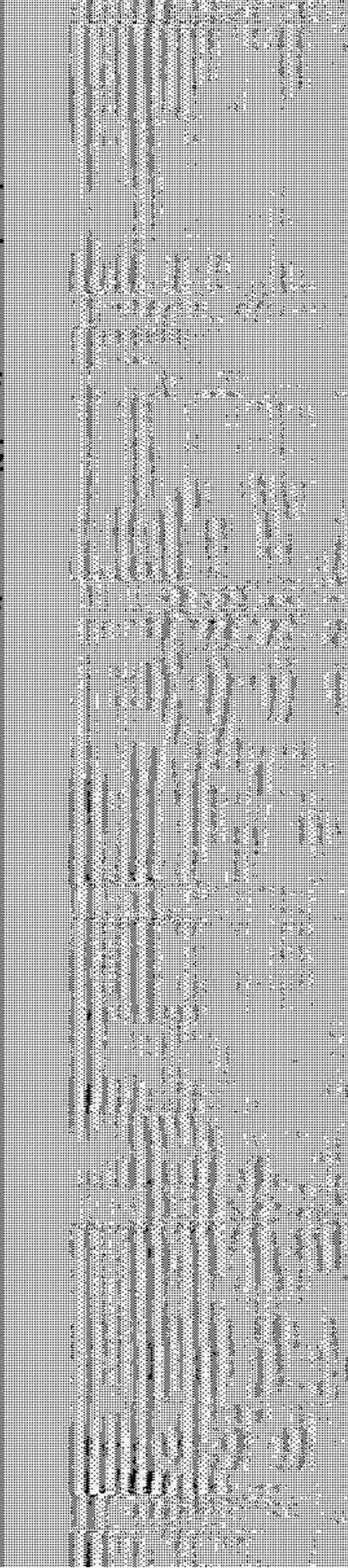
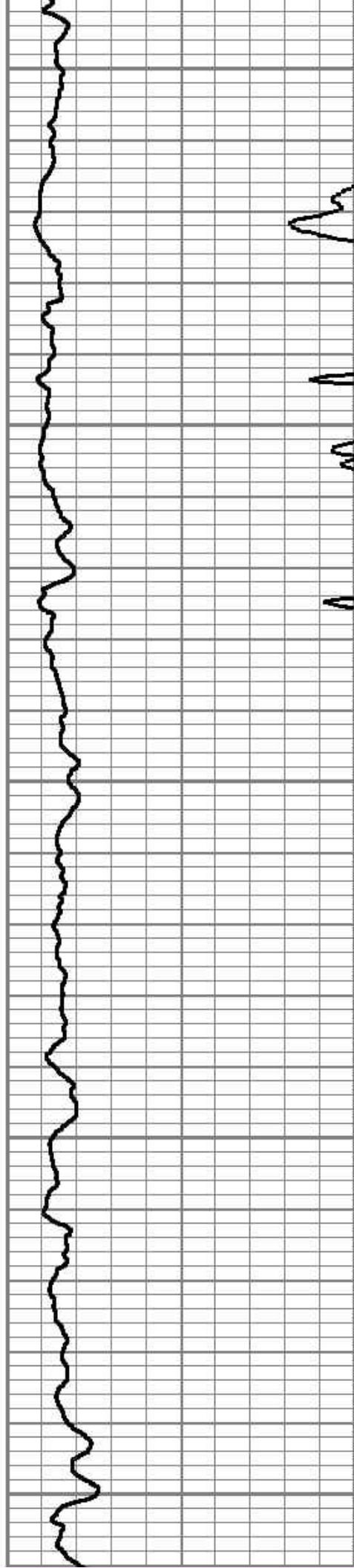




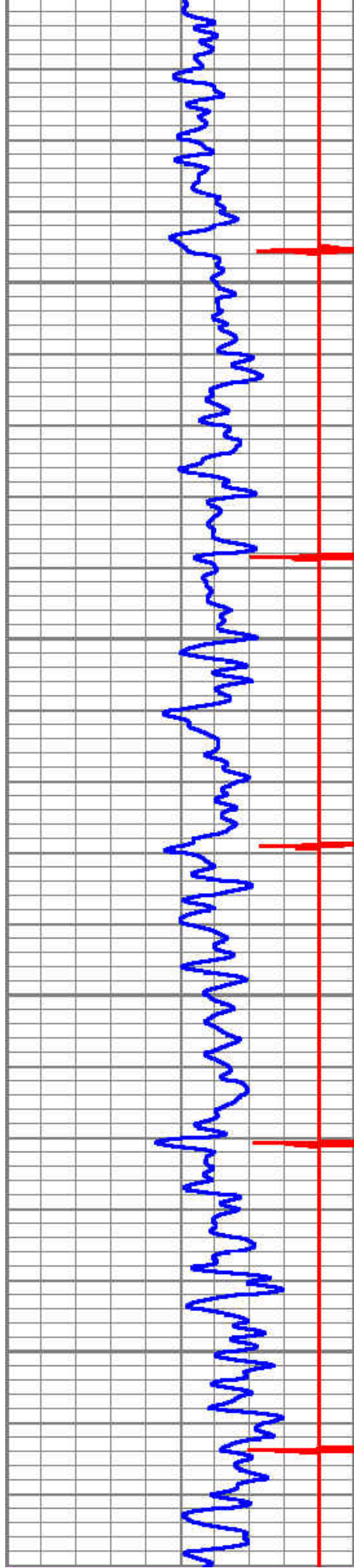
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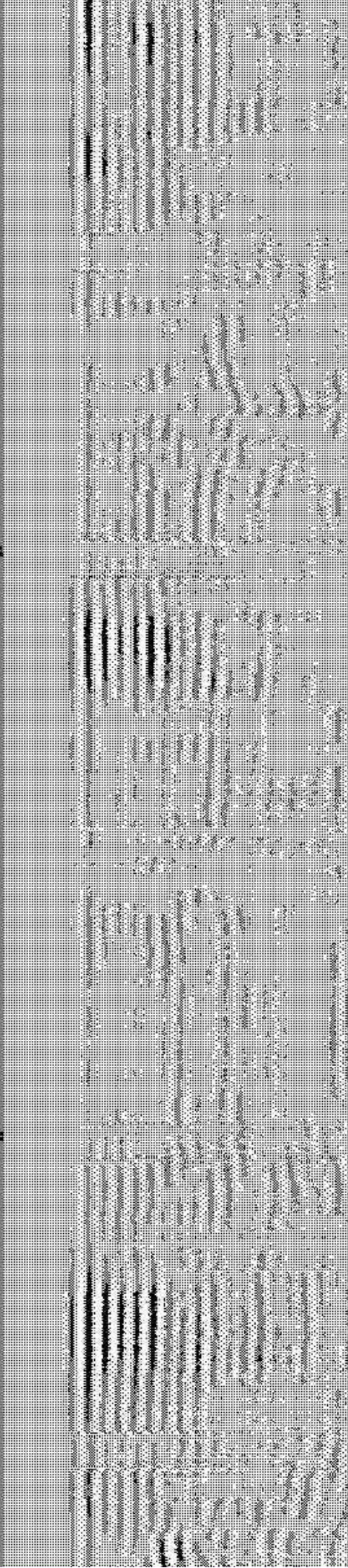
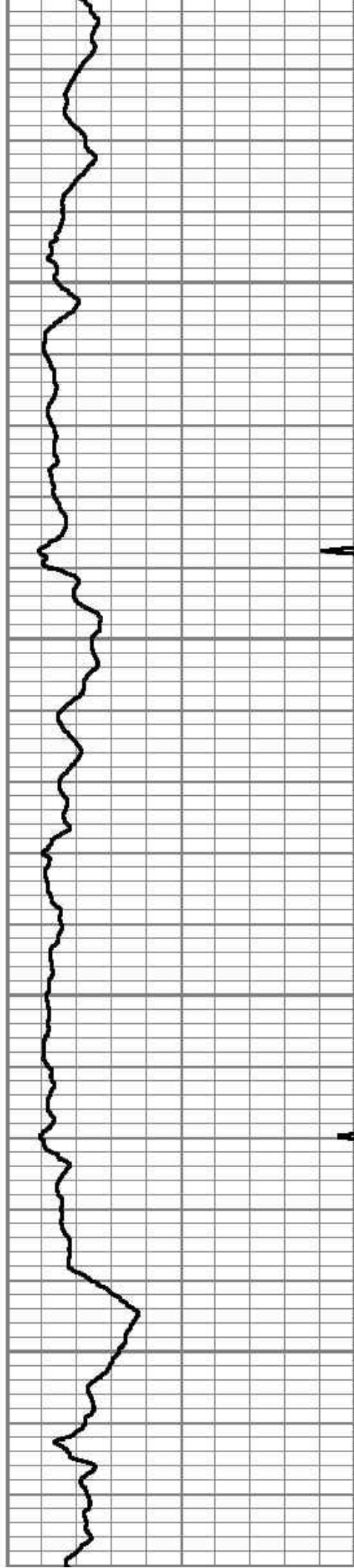




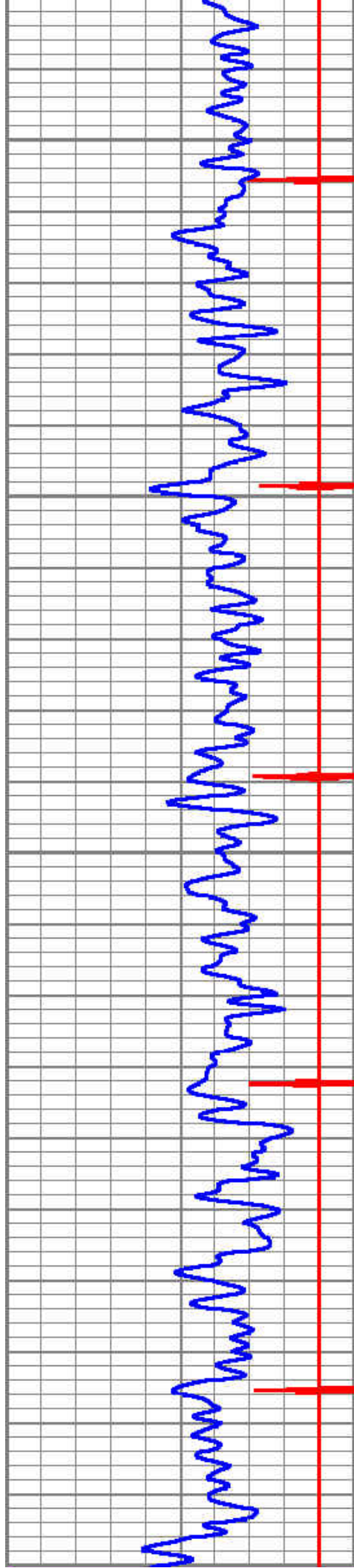


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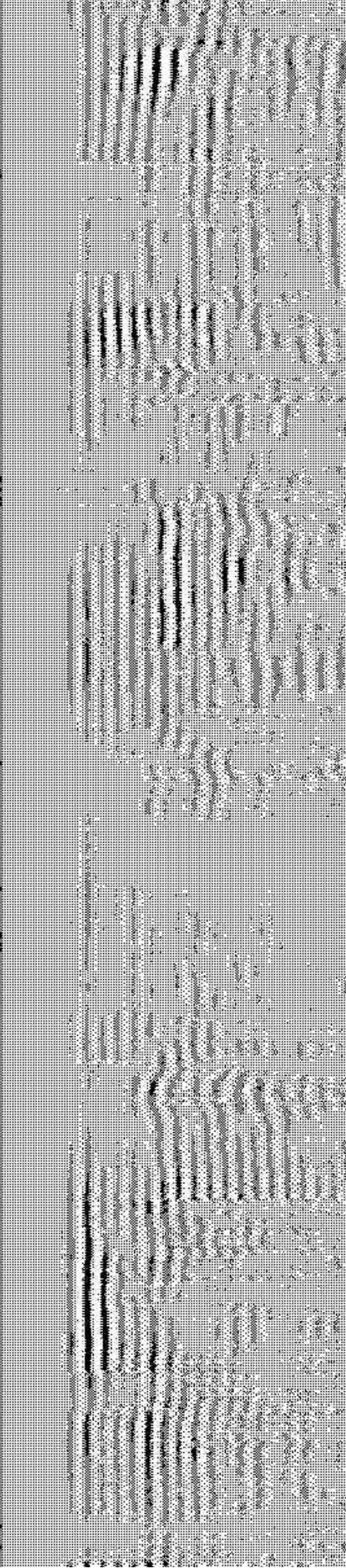
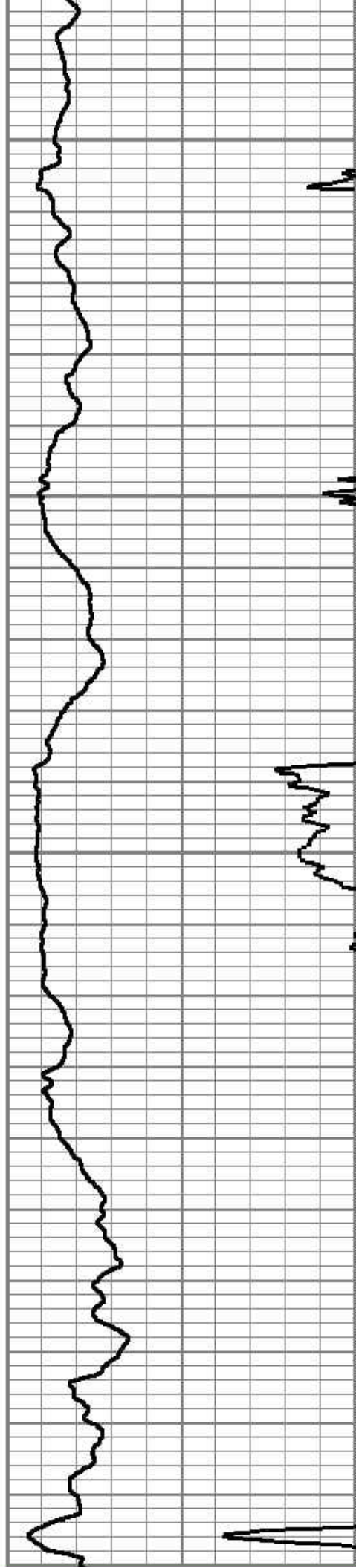




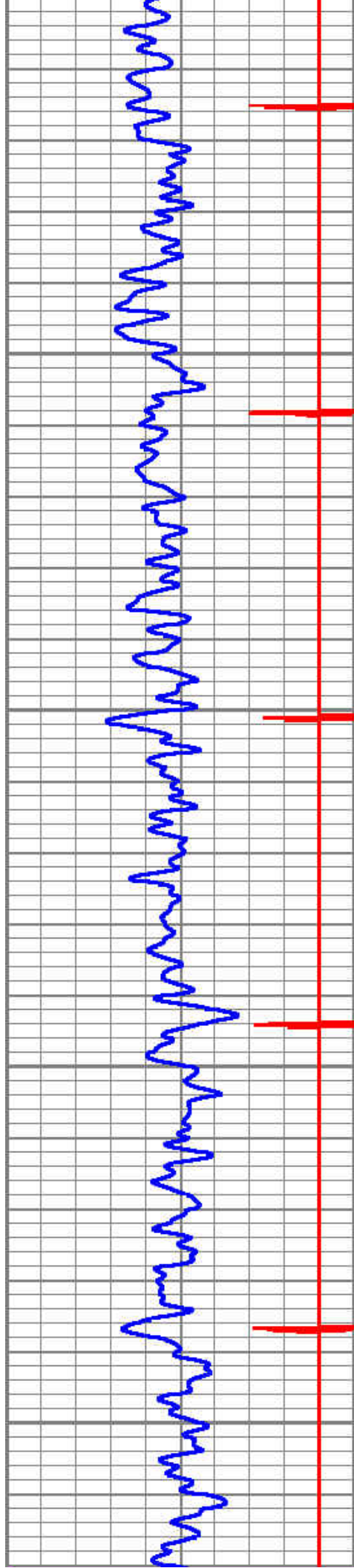


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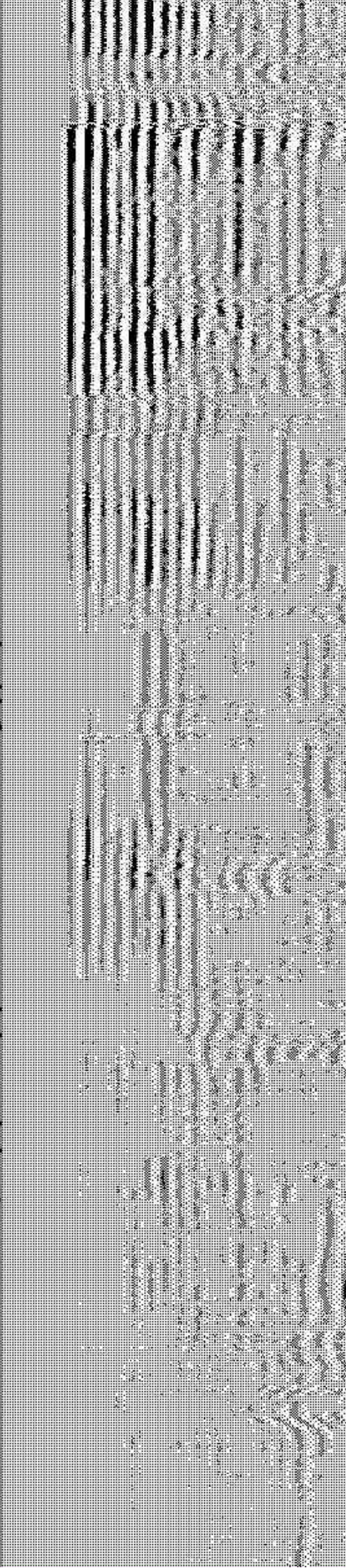
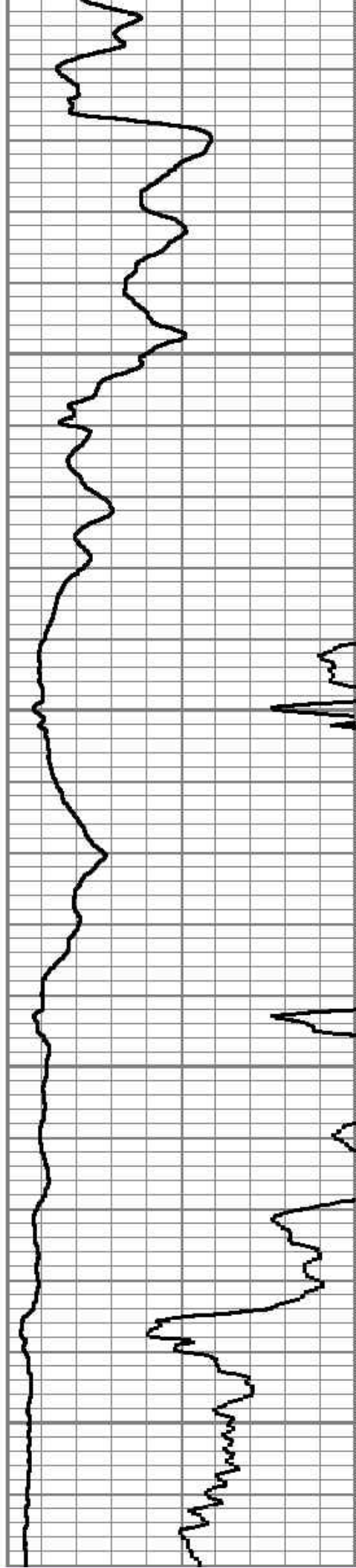




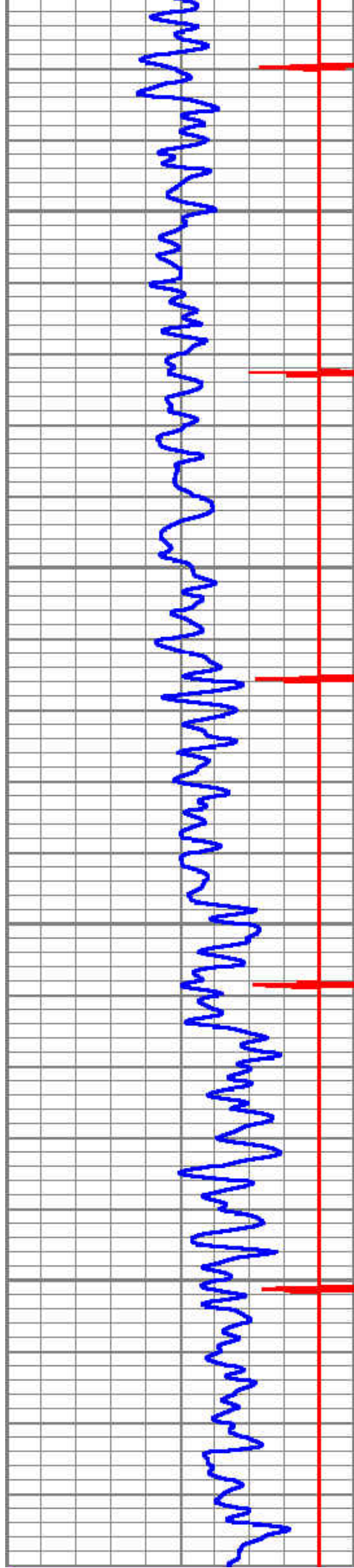


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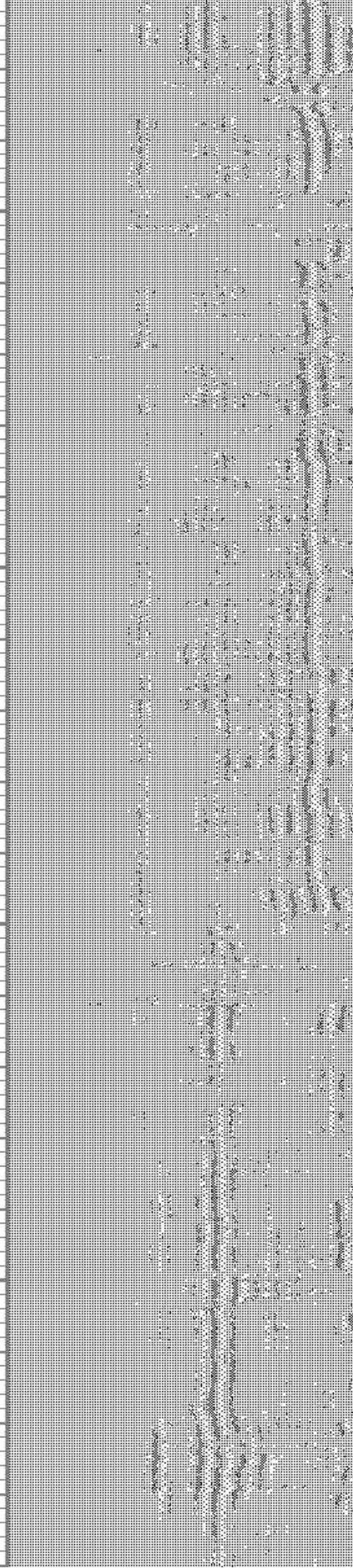
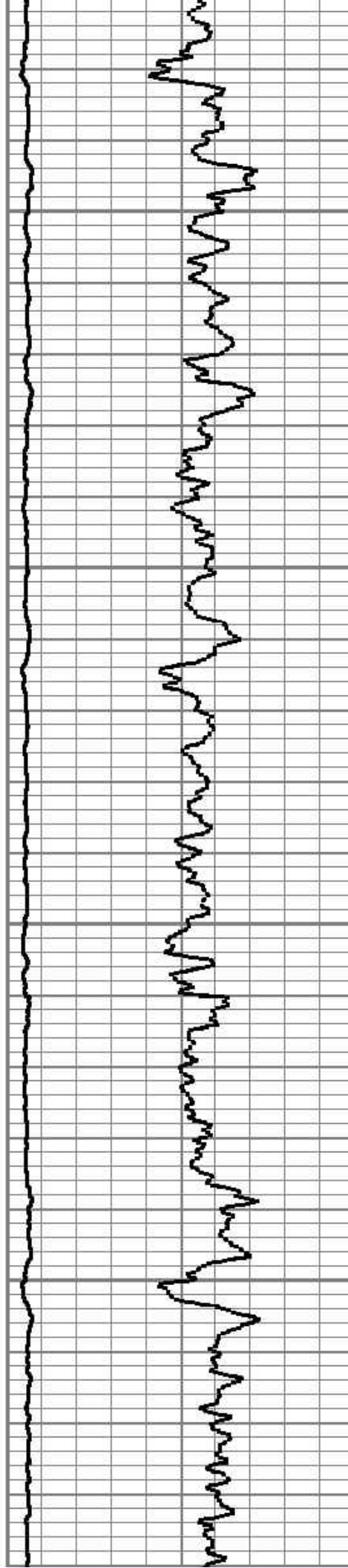




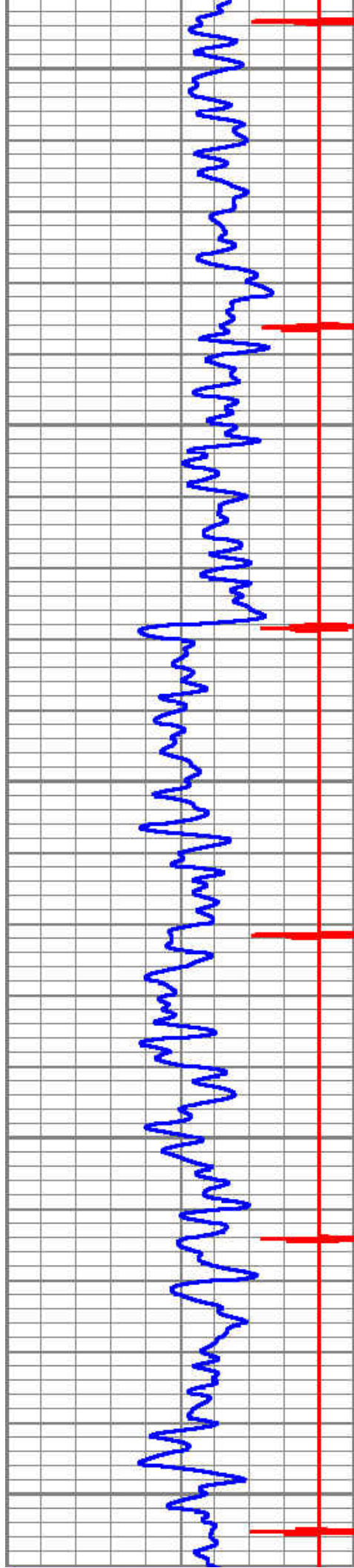


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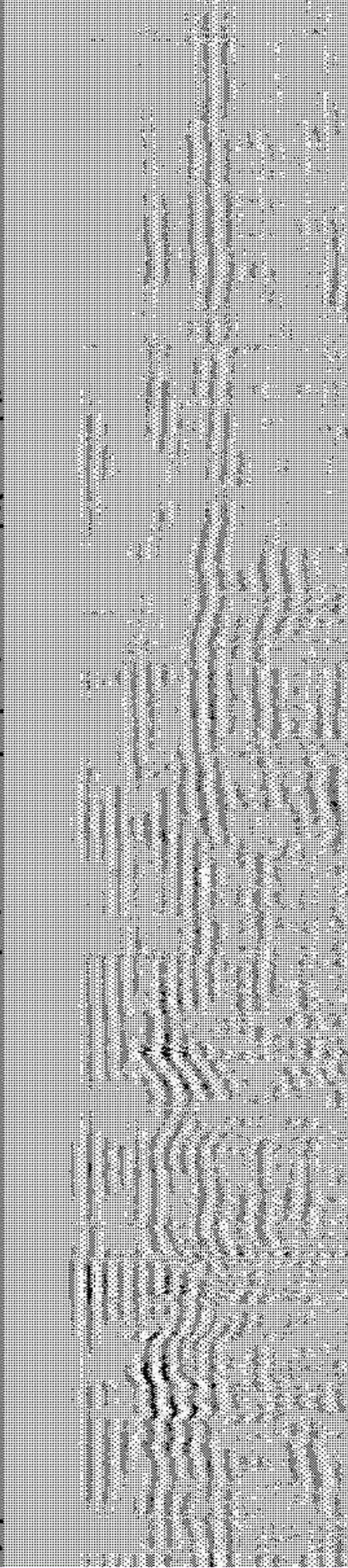
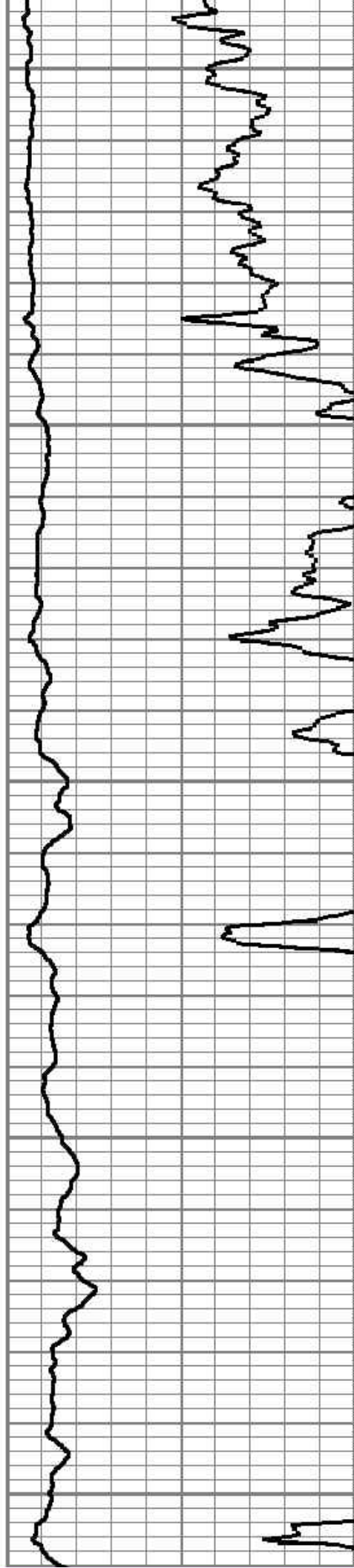




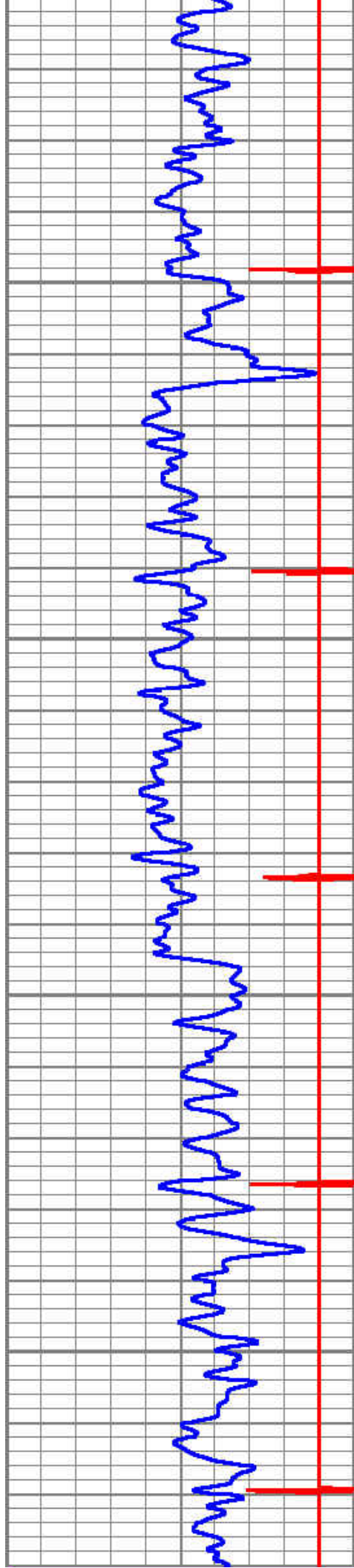
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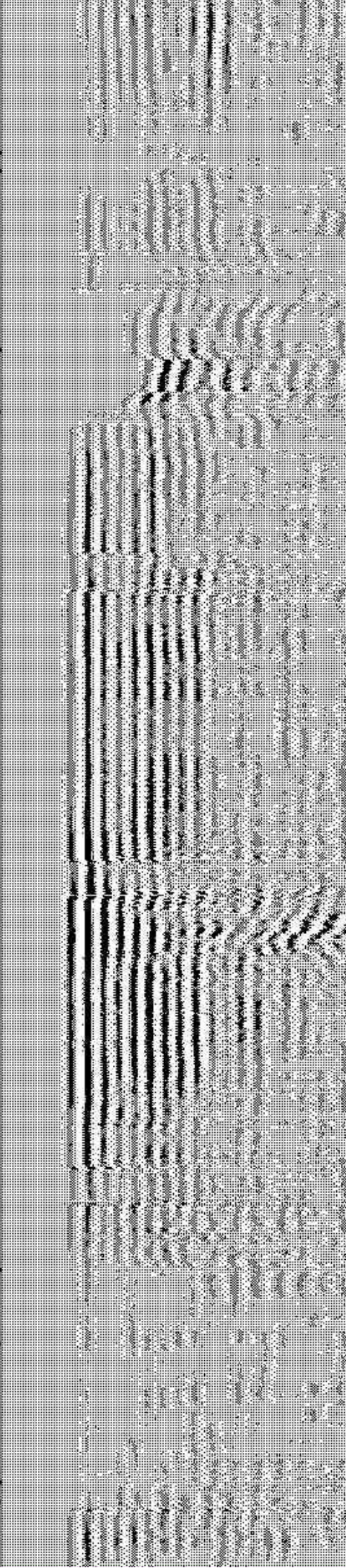
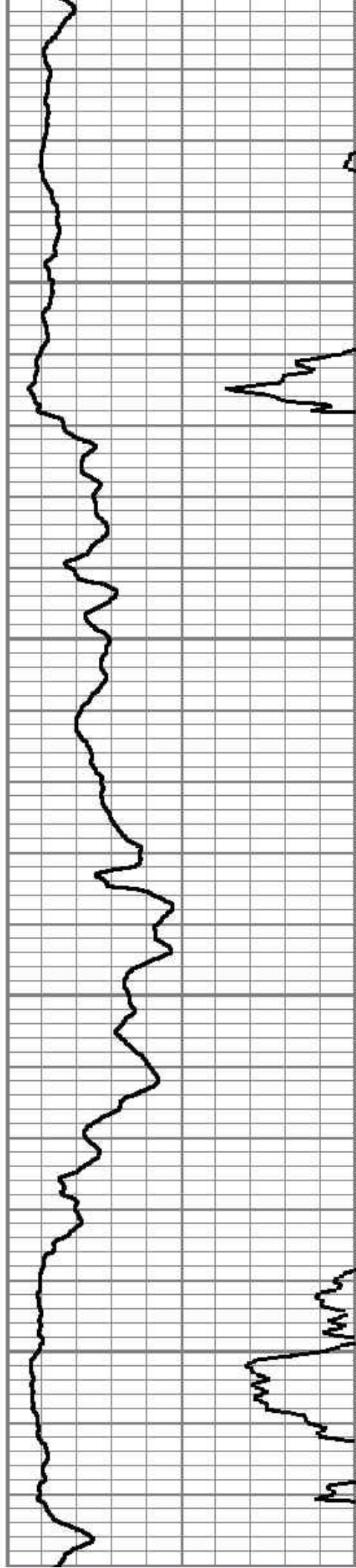




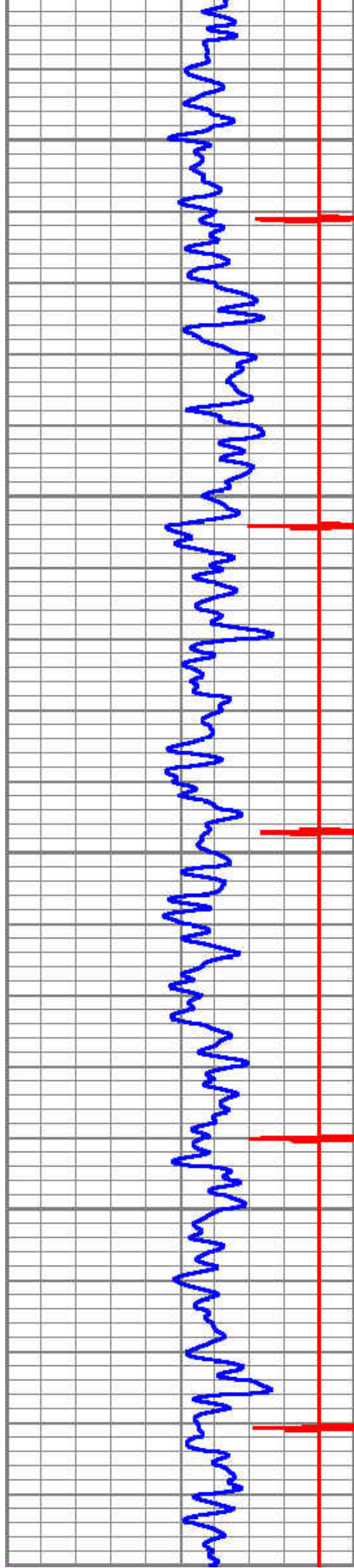


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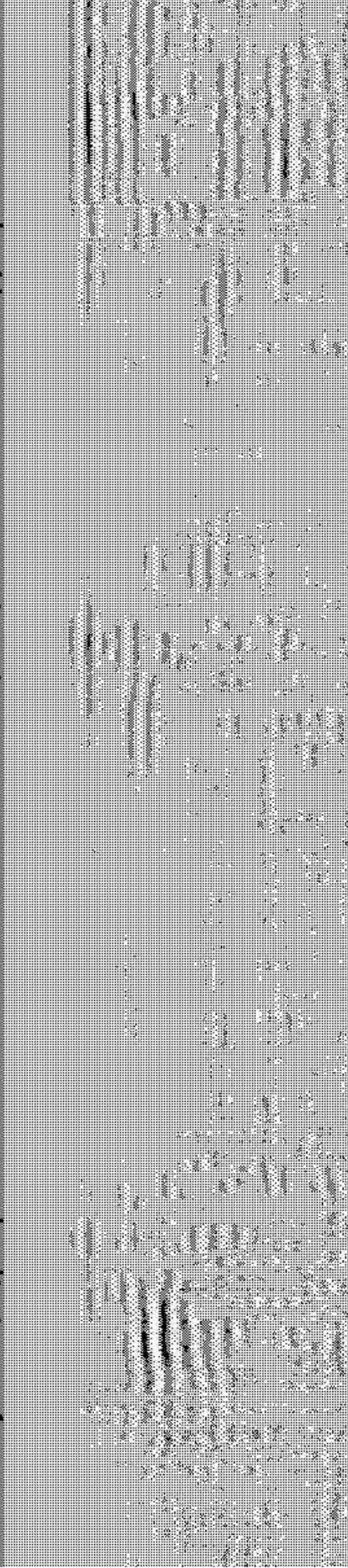
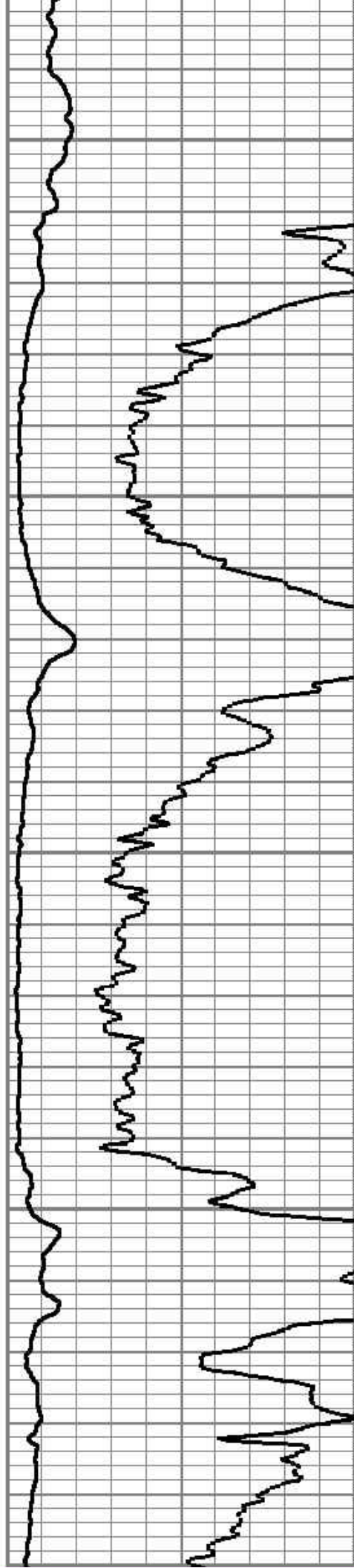




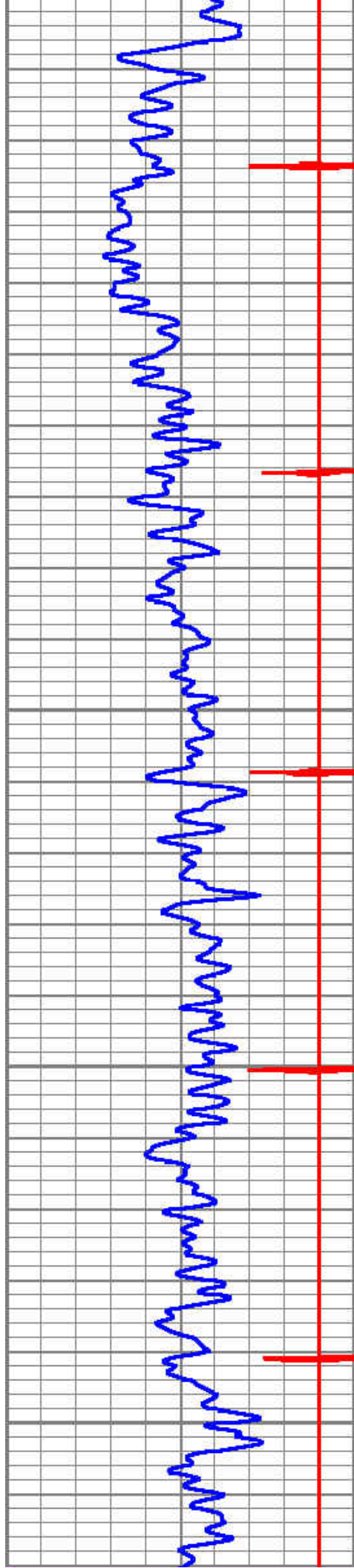


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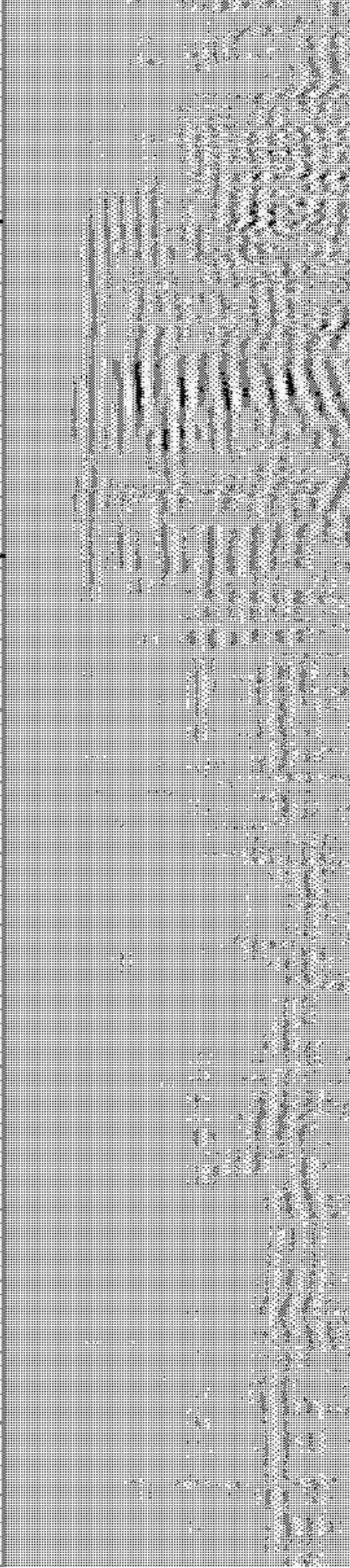
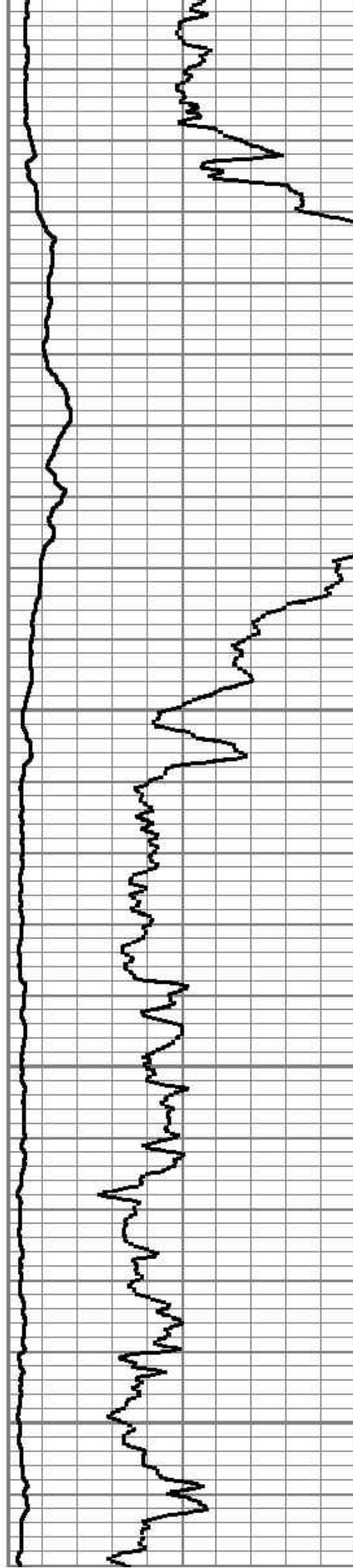




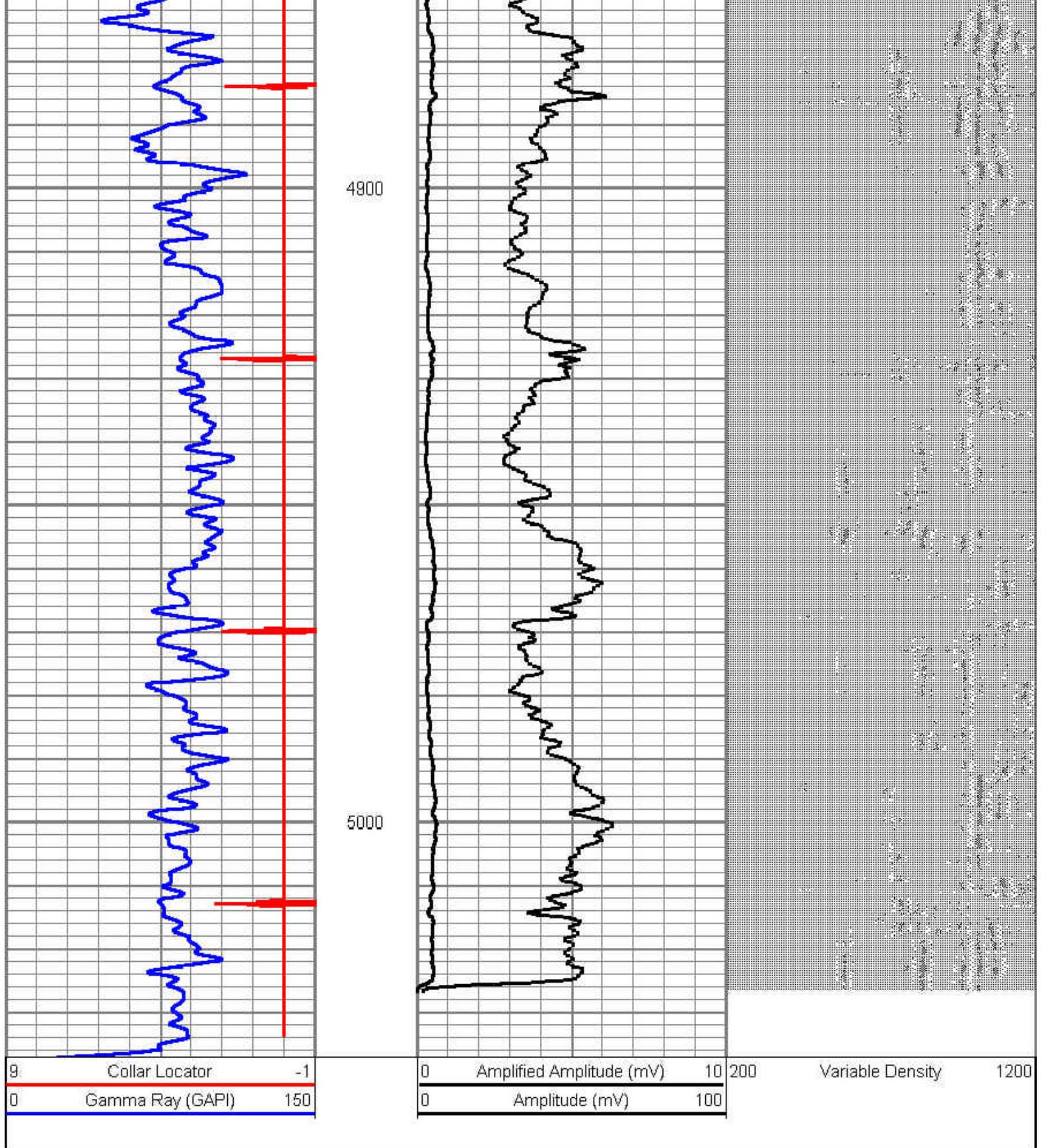


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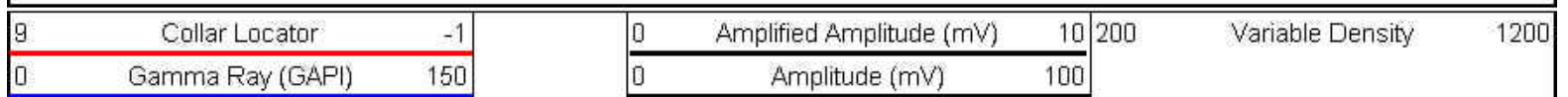
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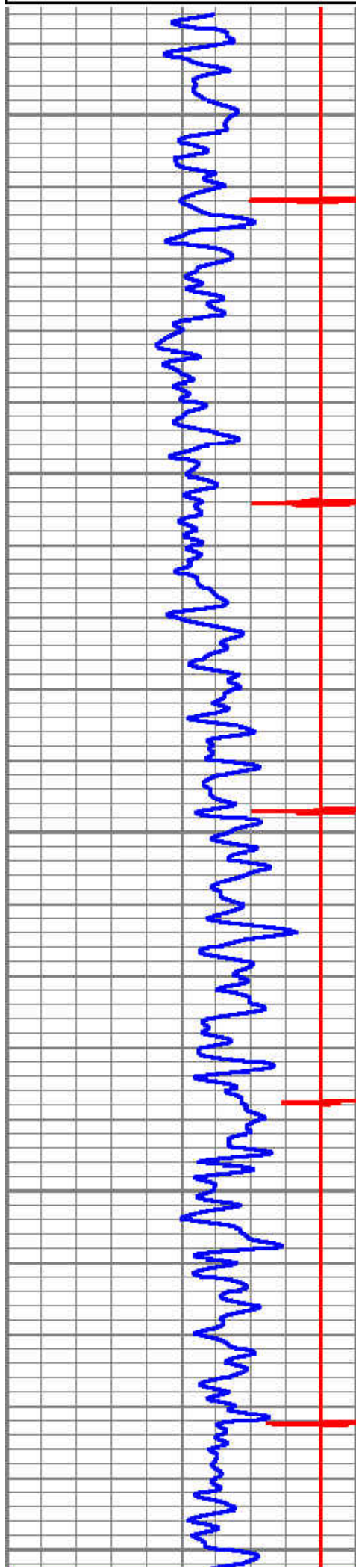




Database File: hcw fd 24-35 d.db  
Dataset Pathname: pass12  
Presentation Format: cbl\_dr  
Dataset Creation: Mon Nov 05 14:02:28 2012 by Log SCH 120430  
Charted by: Depth in Feet scaled 1:240



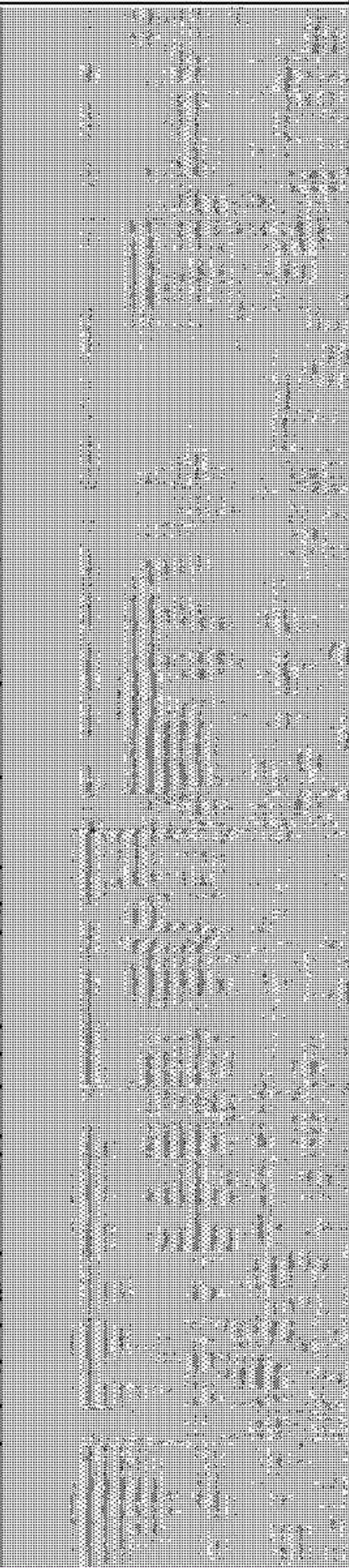
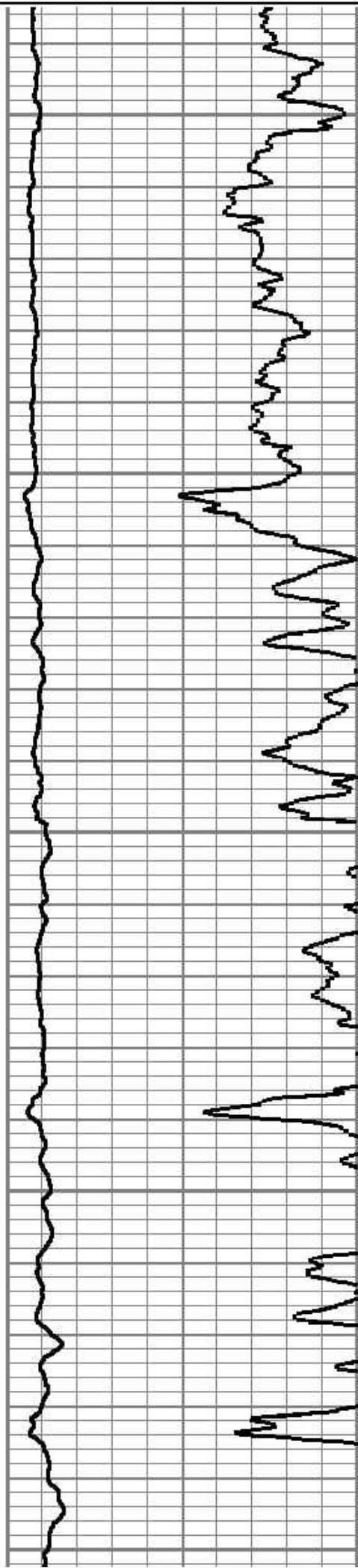




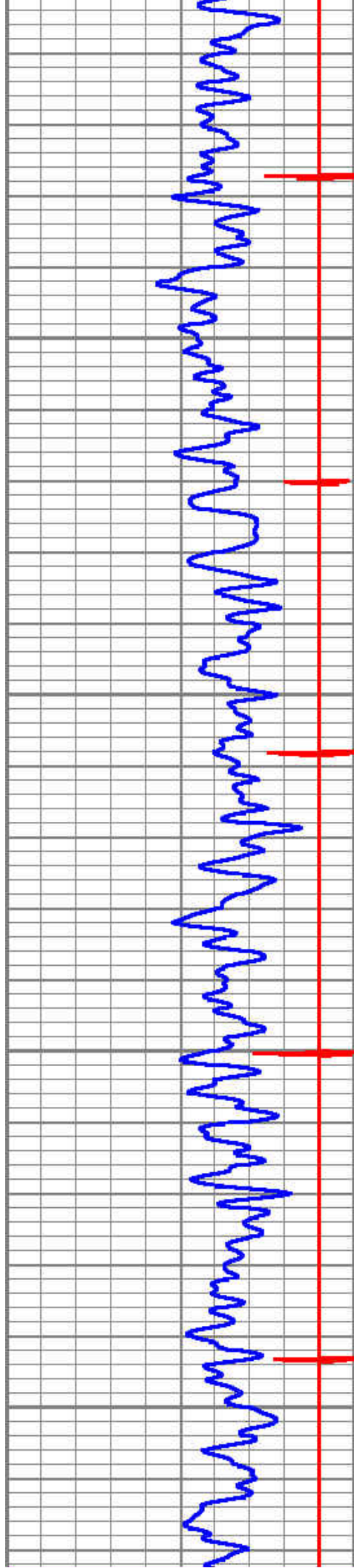
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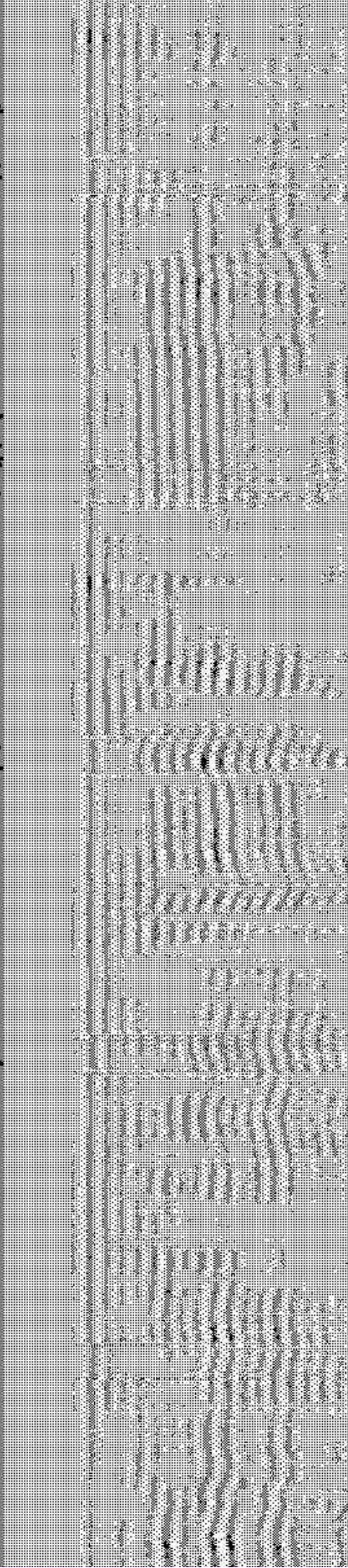
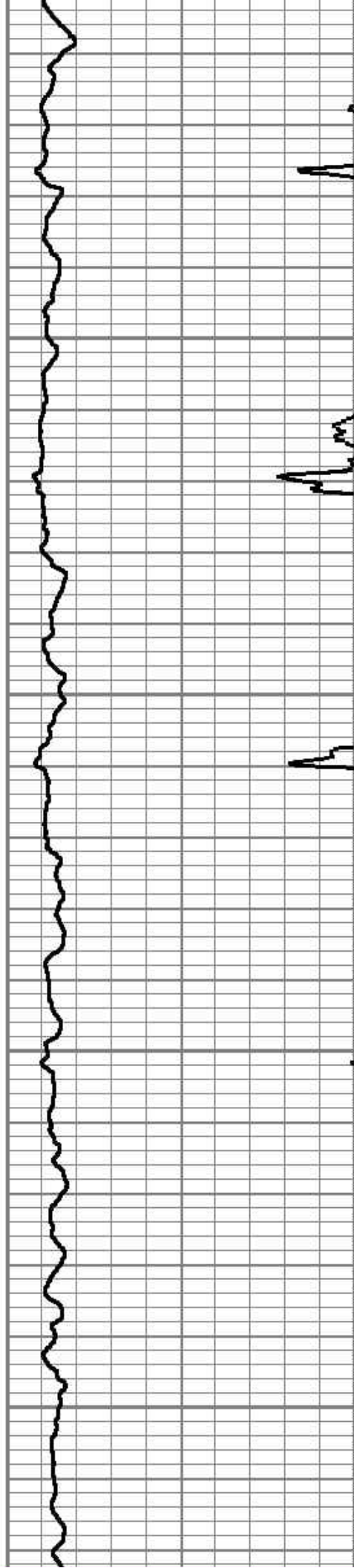




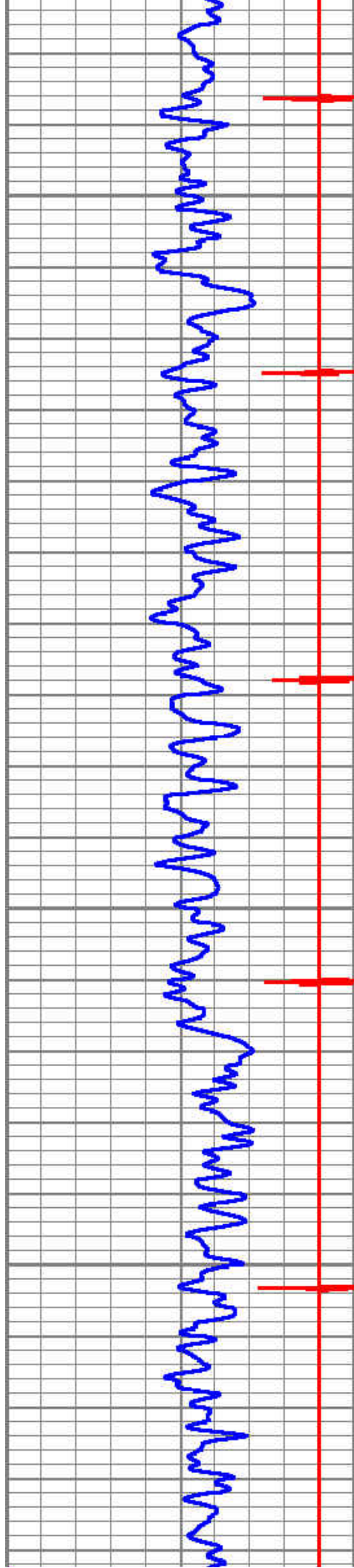


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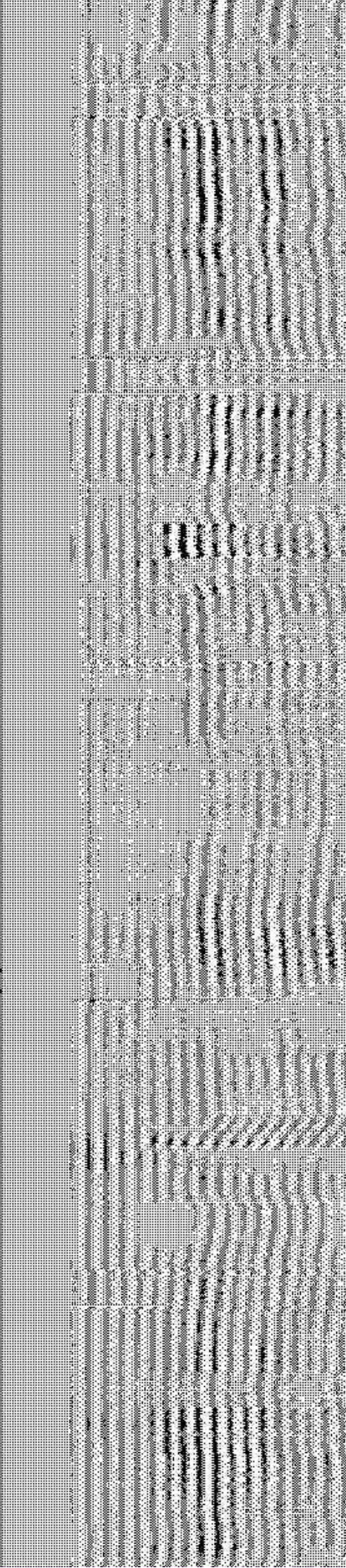
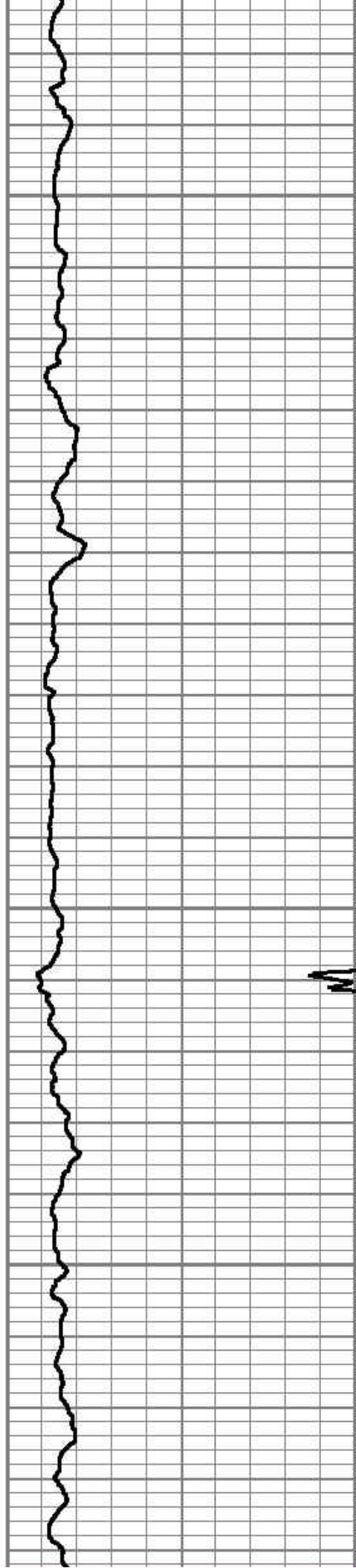




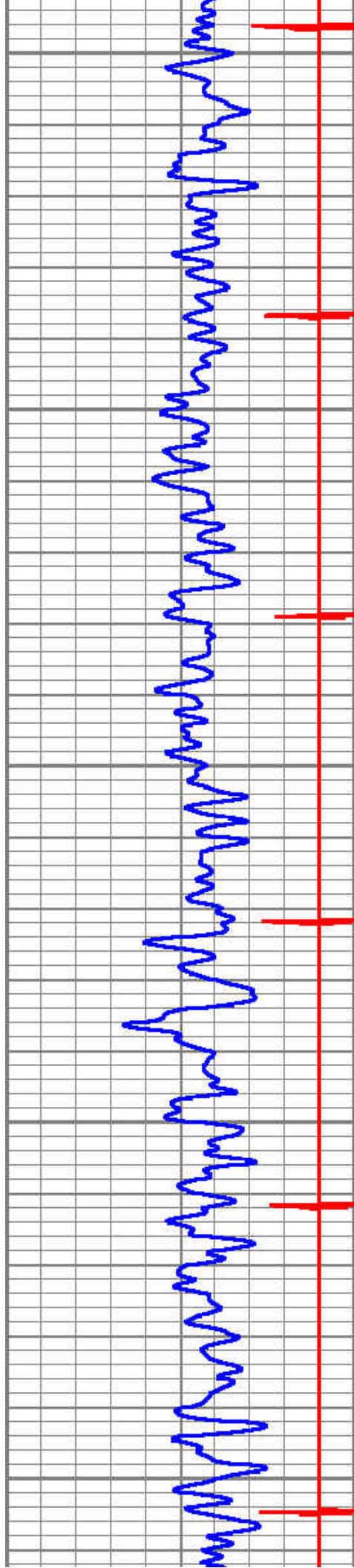


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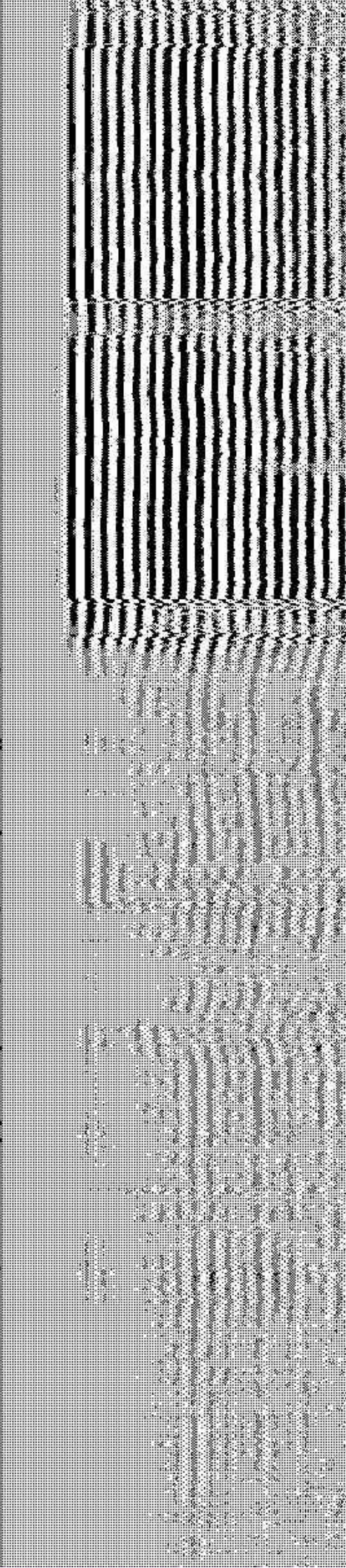
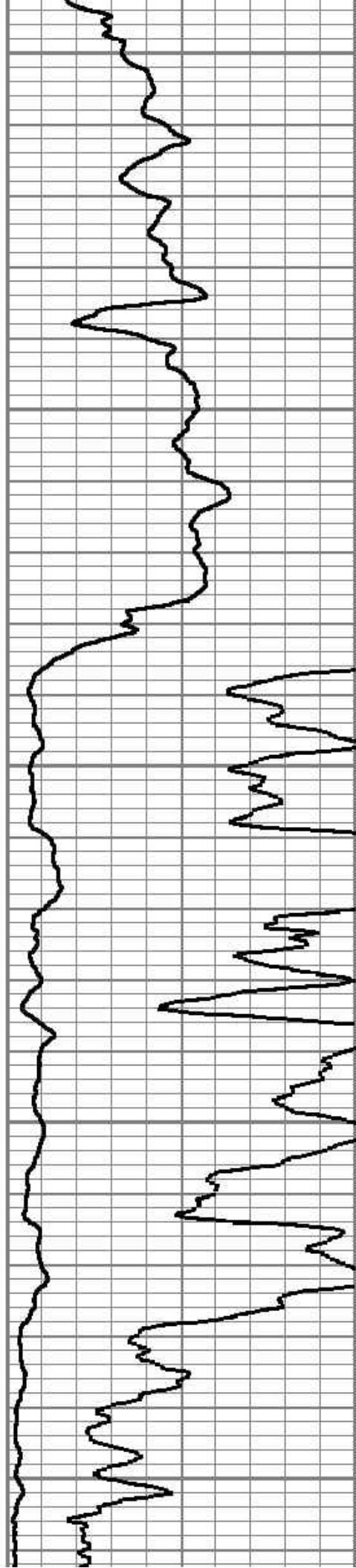




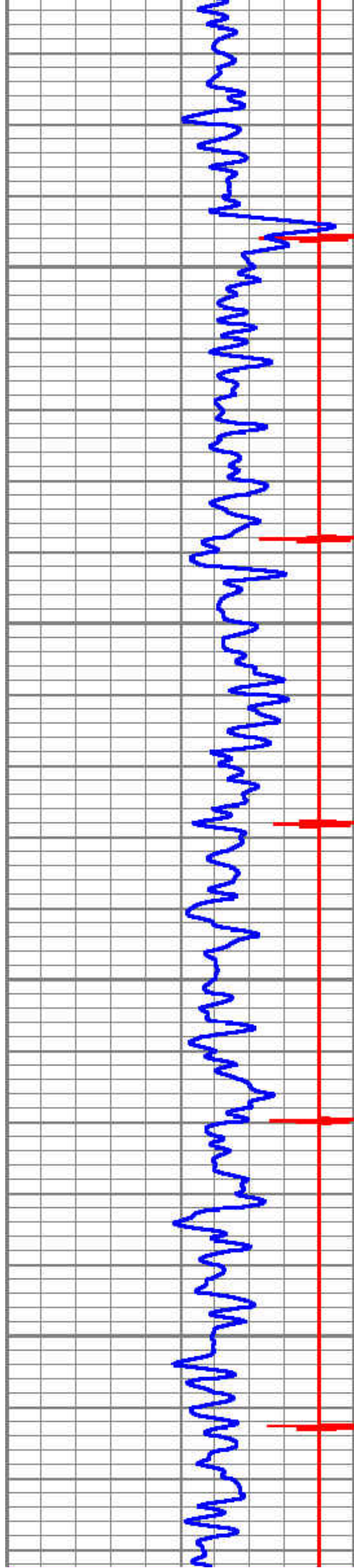


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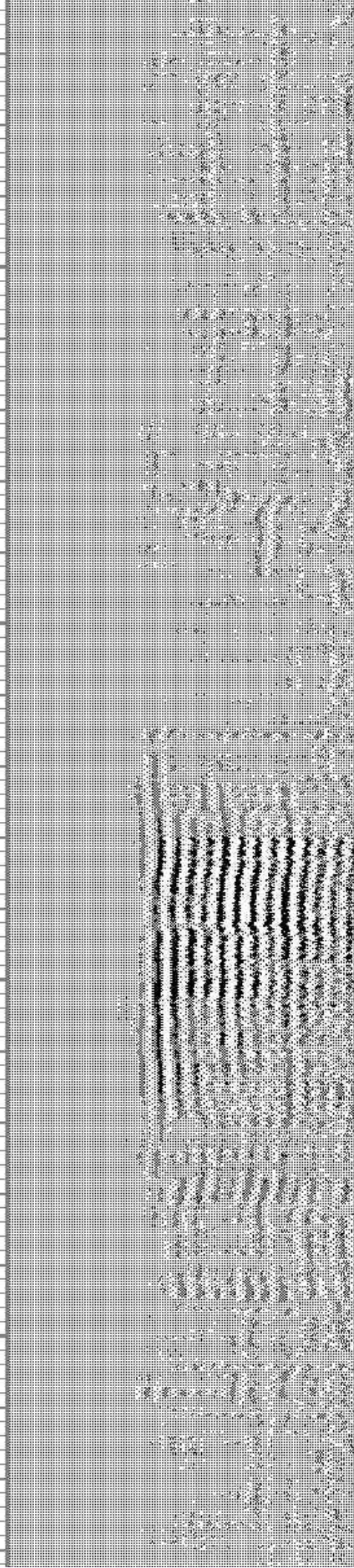
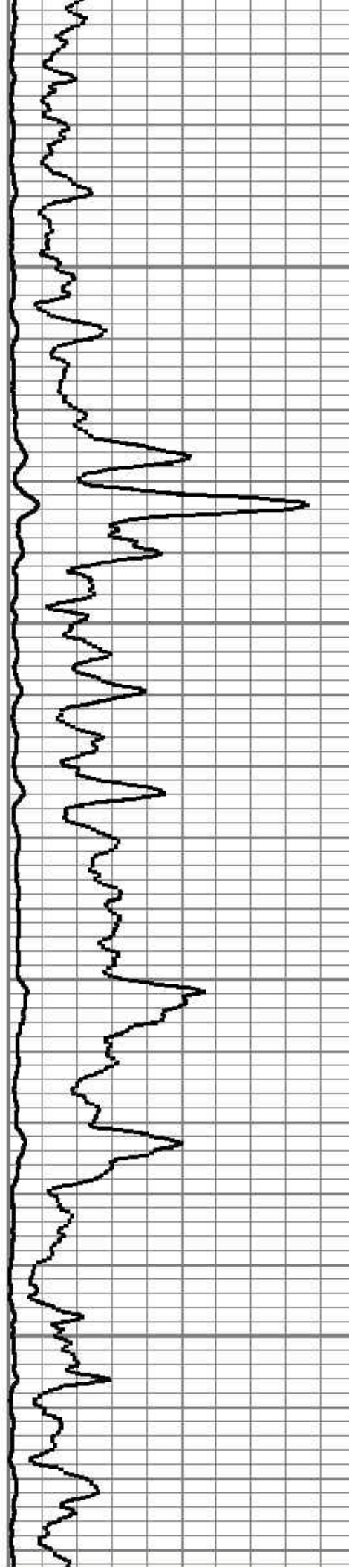




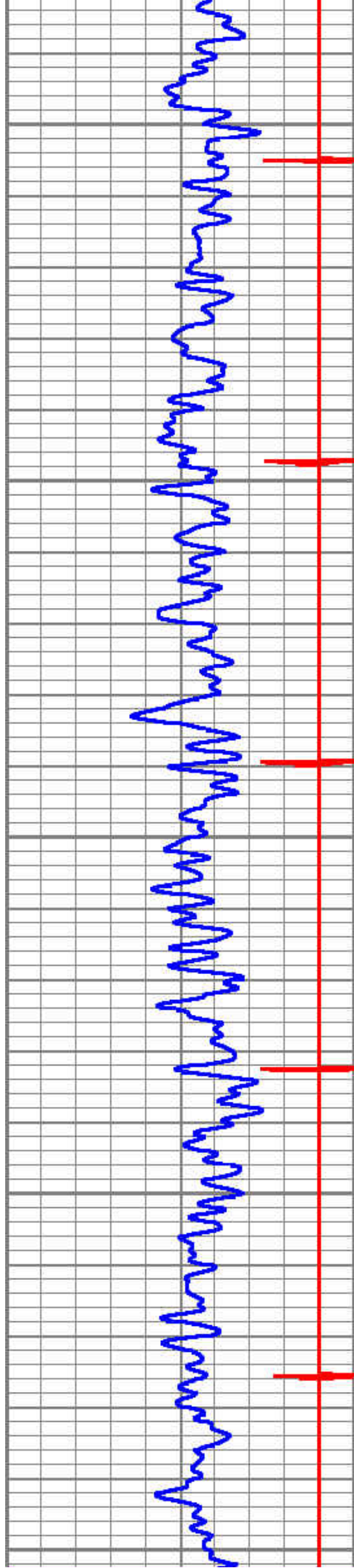


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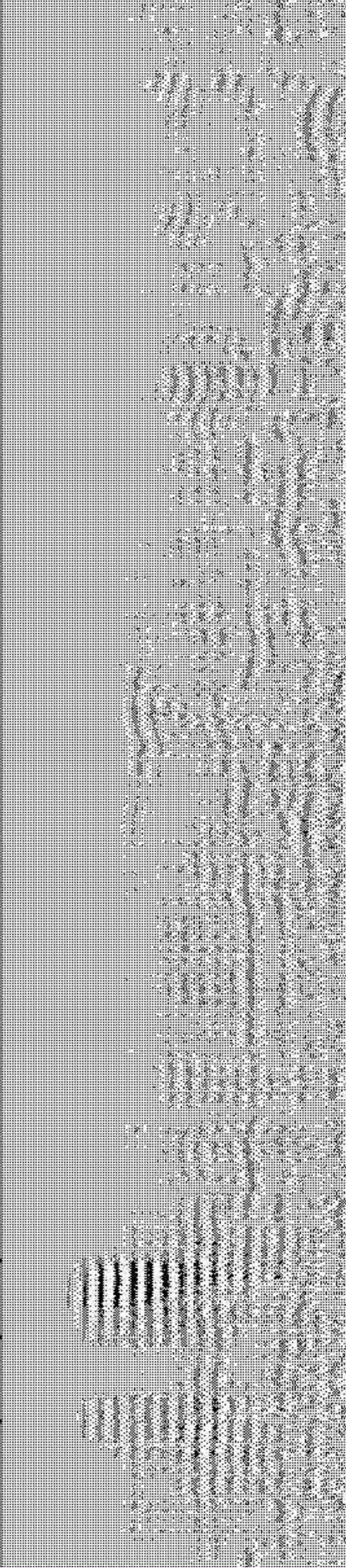
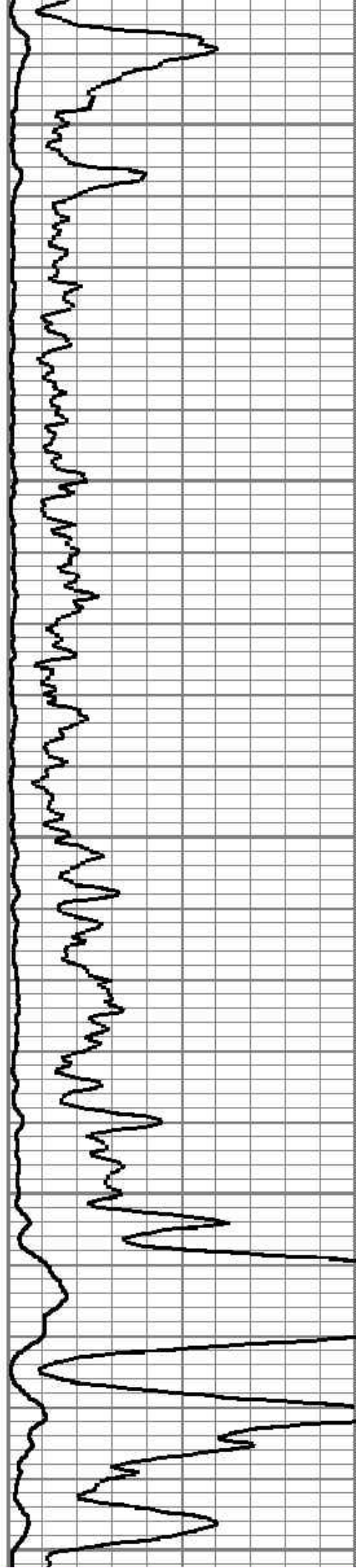




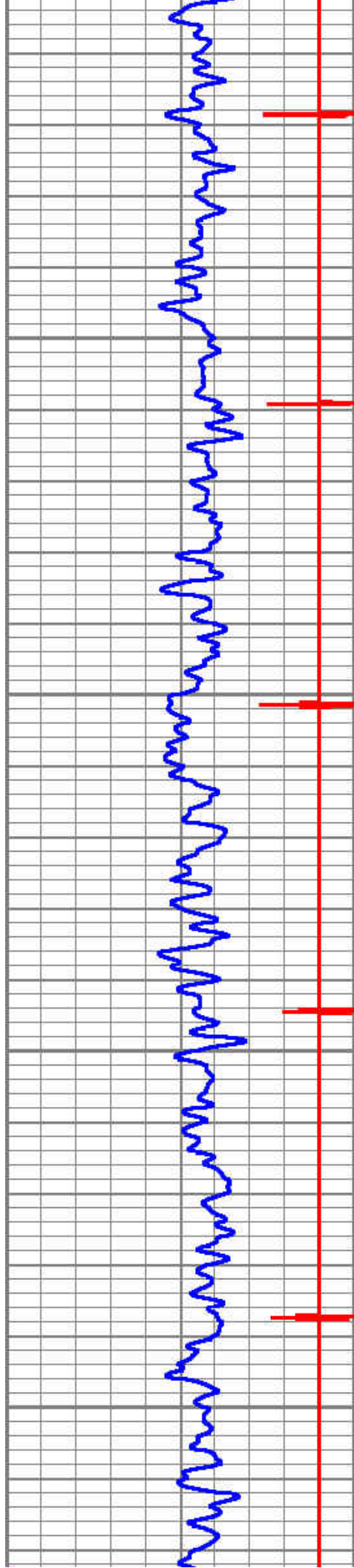
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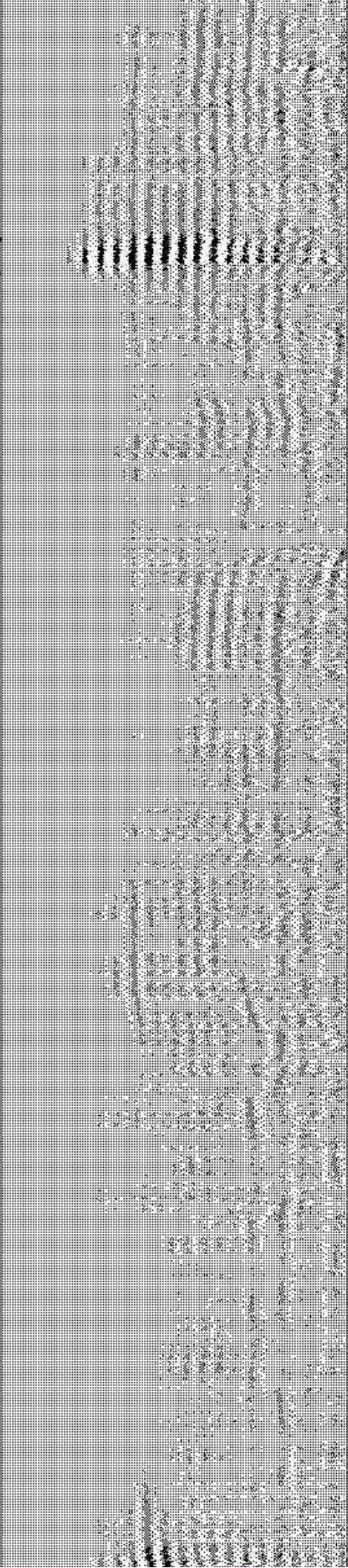
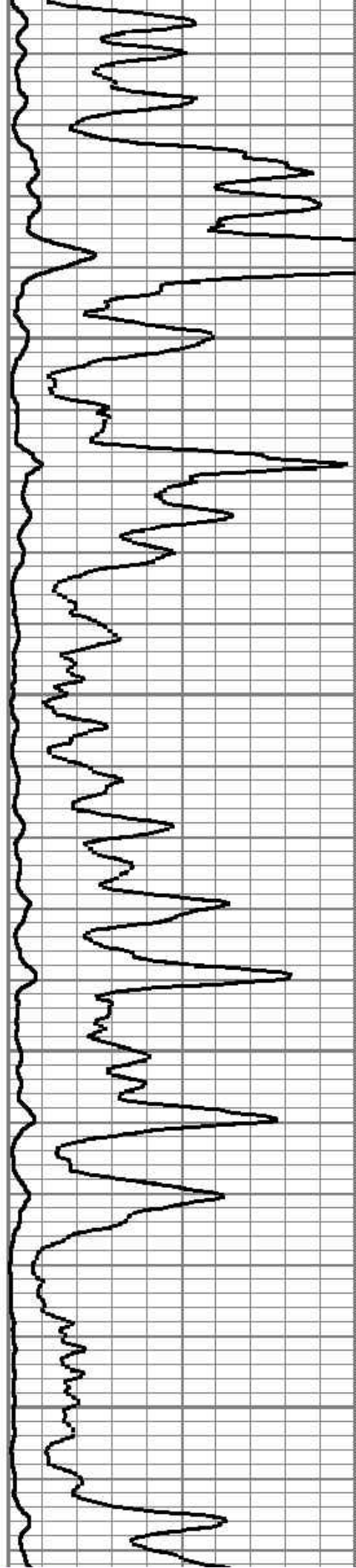




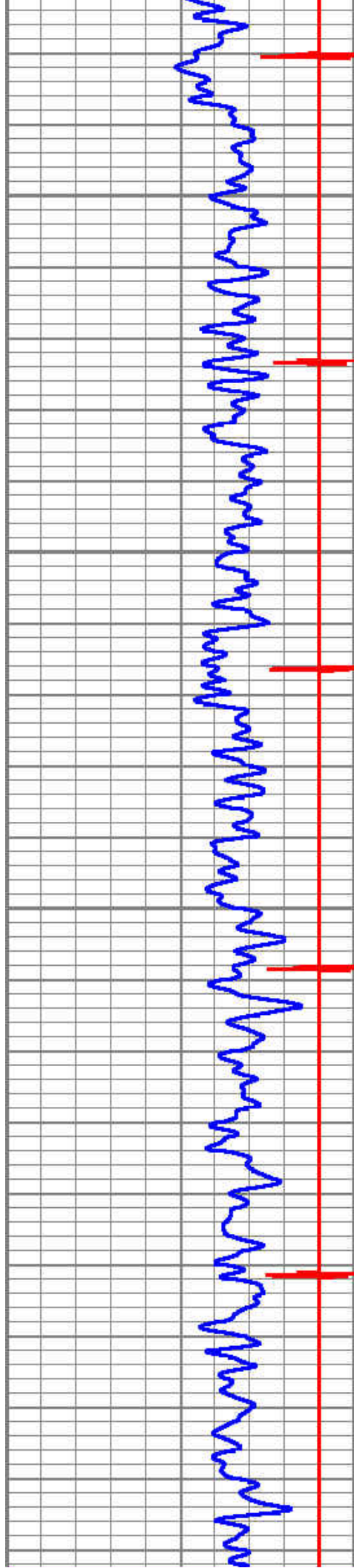


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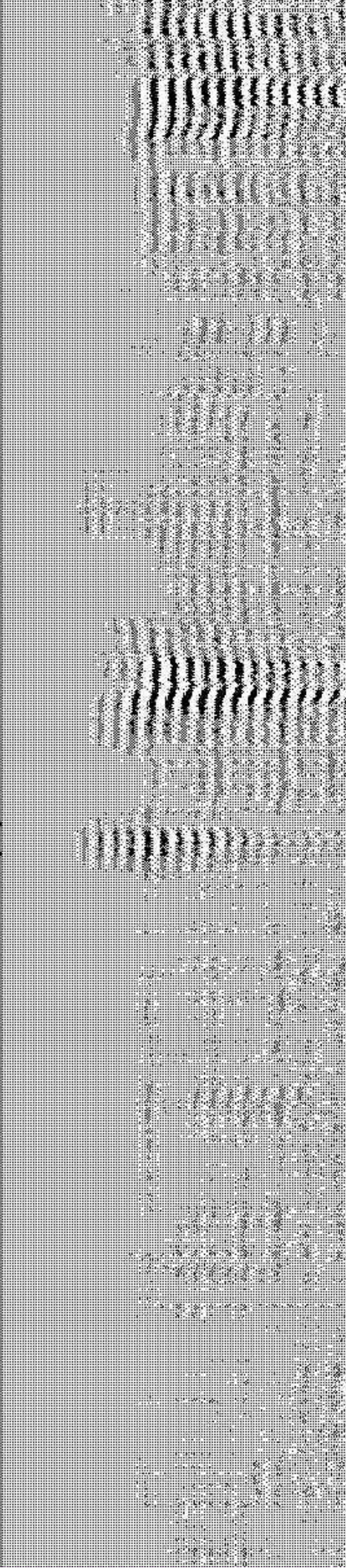
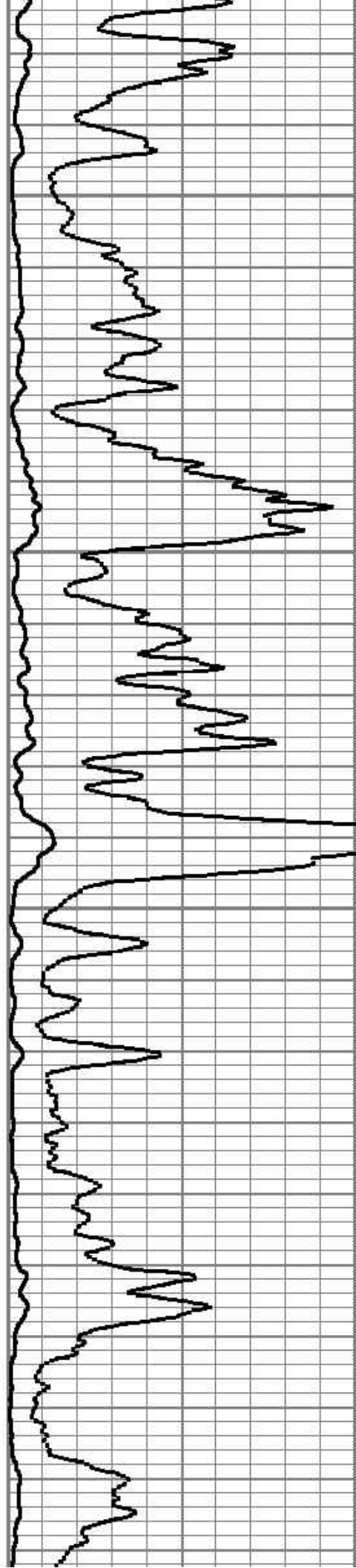




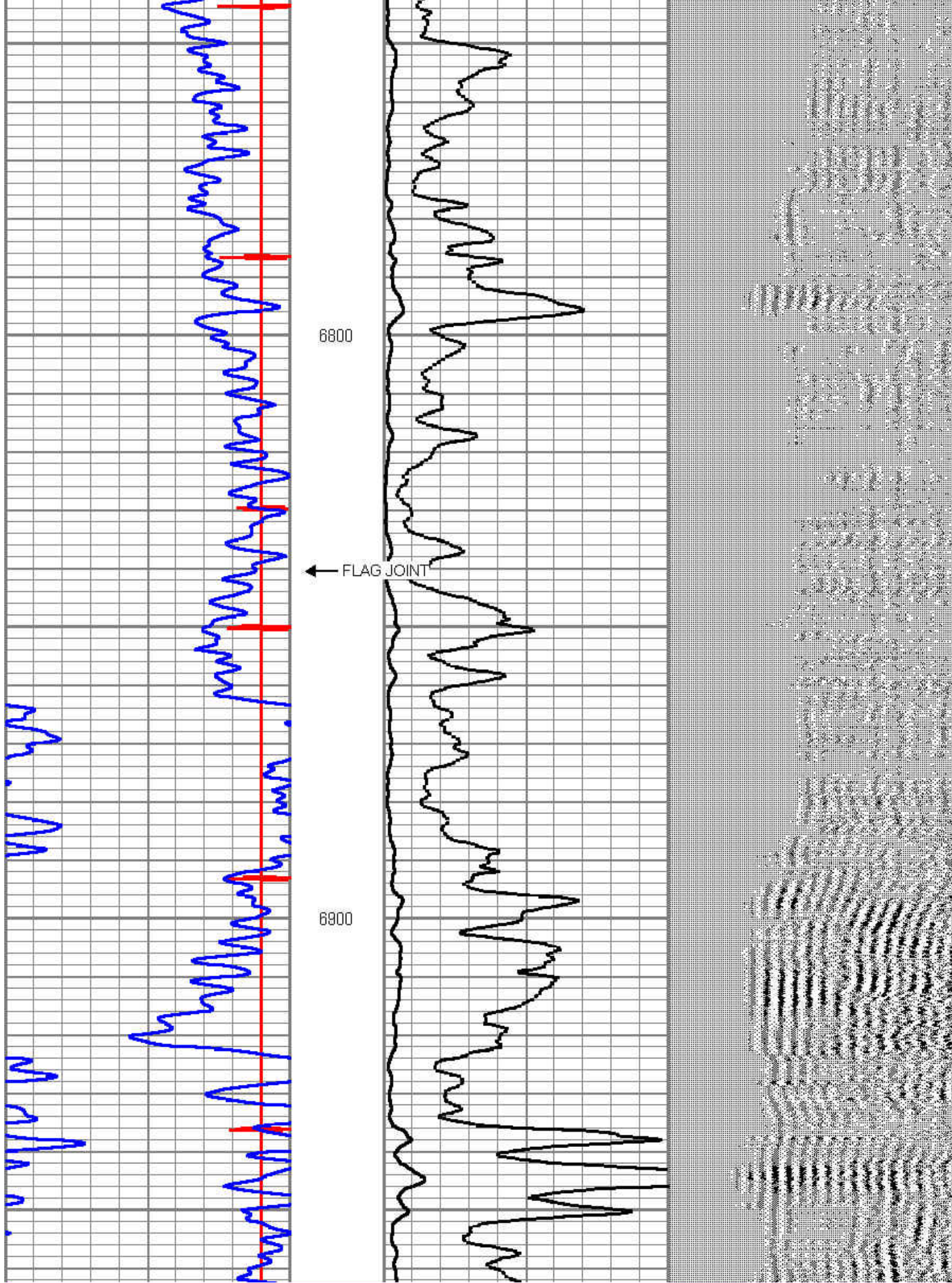


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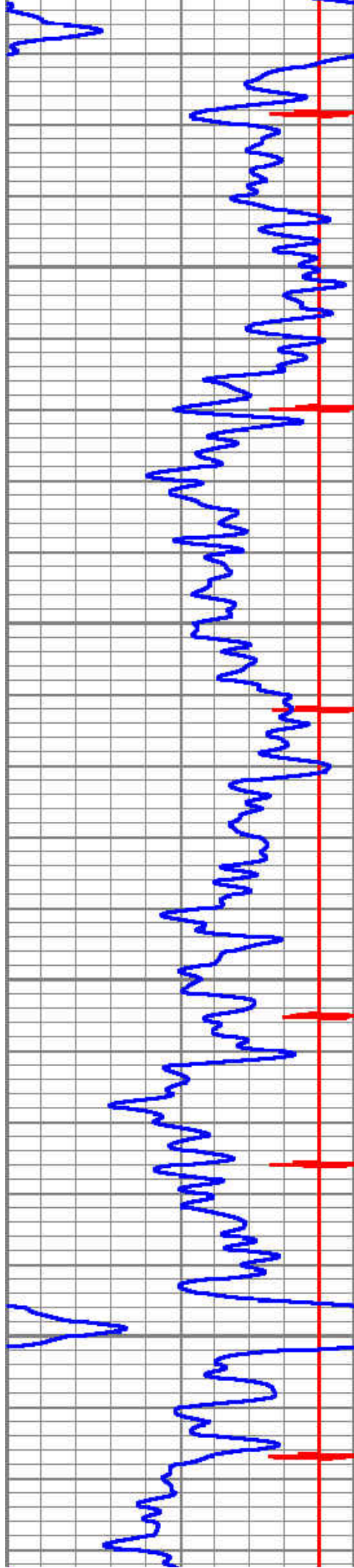
6700











7000

7100

← FLAG JOINT

