

CEMENT BOND LOG



Mesa Wireline

Company		ENCANA OIL & GAS (USA) INC.	
Well		COSTIGAN 34-20	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
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Well		COSTIGAN 34-20	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
Location:		API #: 05-123-30058-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING = 12'	
Drilling Measured From		KELLY BUSHING	
SHL: 973' FSL & 1085' FEL		Elevation	
BHL: 510' FSL & 2130' FEL		K.B. 5224'	
SEC. 20 TWP. 1N RGE. 68W		D.F. 5223'	
		G.L. 5212'	

Date	6 JULY 2011						
Run Number	ONE						
Depth Driller	8658'						
Depth Logger	8658'						
Bottom Logged Interval	8658'						
Top Log Interval	SURFACE						
Open Hole Size	4.5"						
Type Fluid	WATER						
Density / Viscosity	~8.3#						
Max. Recorded Temp.	270 DEG F						
Estimated Cement Top	3690'						
Time Well Ready	N/A						
Time Logger on Bottom	N/A						
Equipment Number	10901 PRA10						
Location	AULT, CO						
Recorded By	Z.EMICK						
Witnessed By	T.MAJORS						
Borehole Record							
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	0'	1300'				
TWO	7.875"	0'	8705'				
Tubing Record							
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	8.625"	24#	0'	1250'			
Prot. String							
Production String	4.5"	11.6#	0'	8667'			
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

LOG NOT CORRELATED TO ANY OTHER LOG
SHORT JOINT 7576'-7599'

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0458

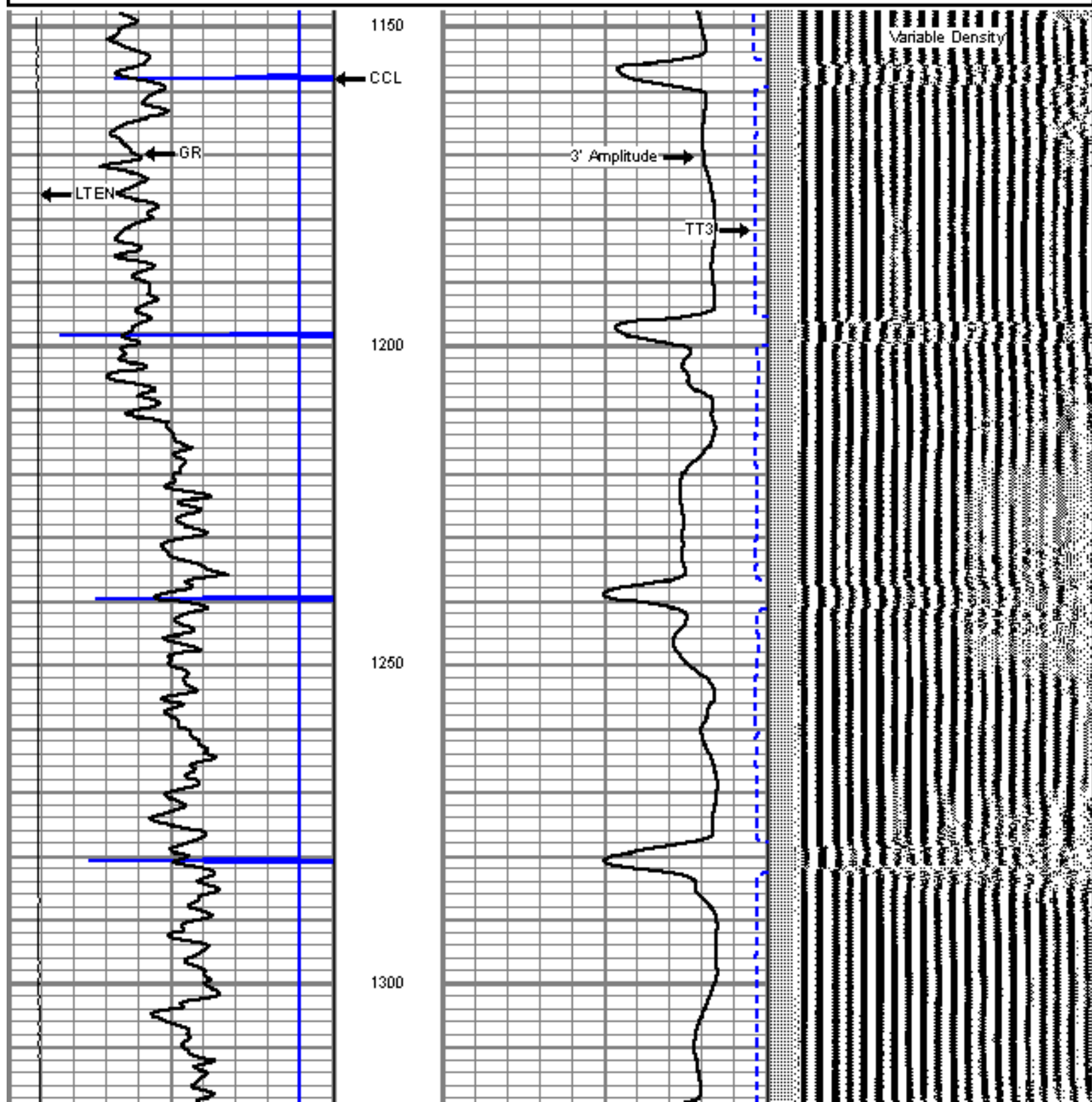


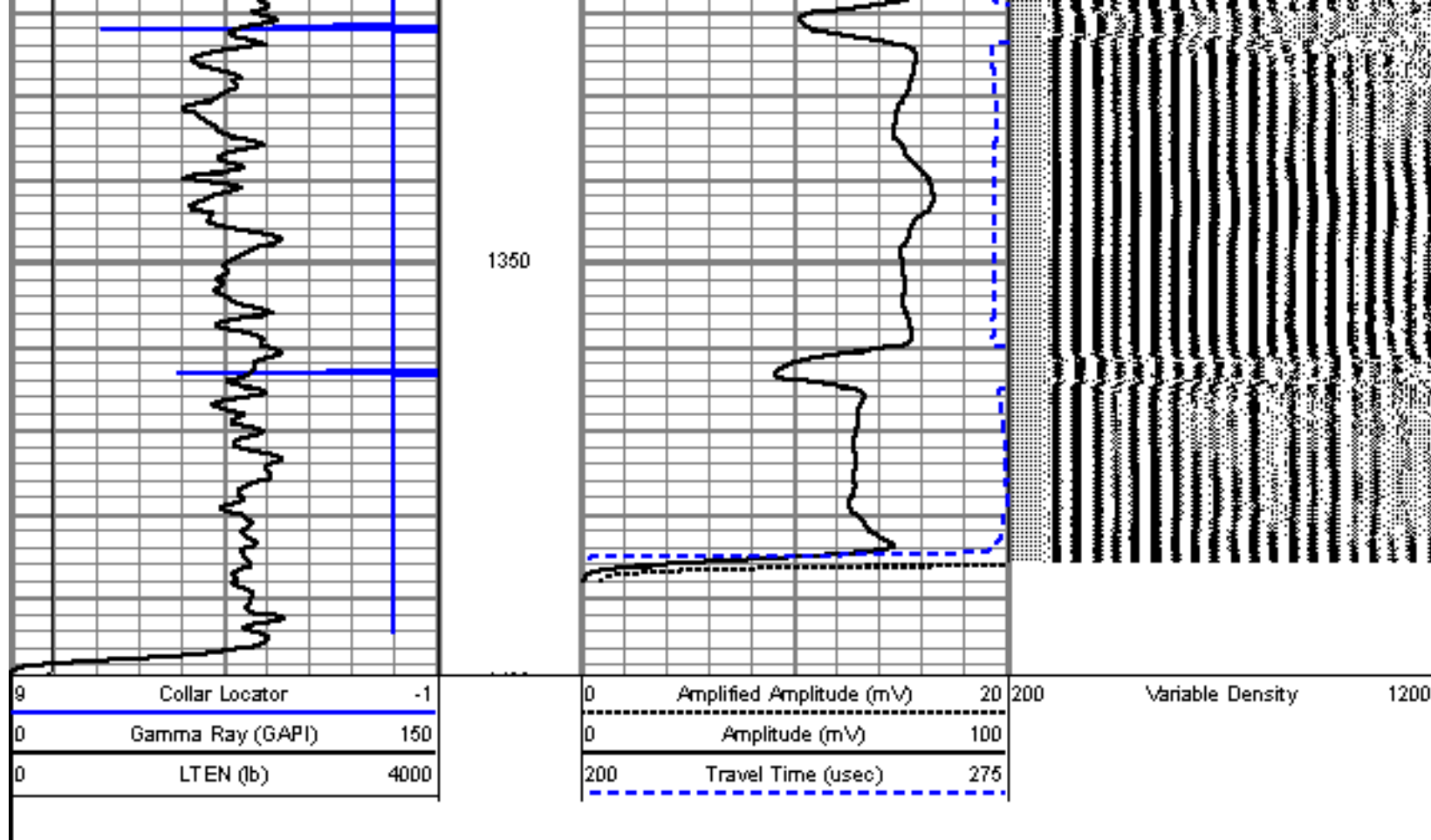
TOP PASS

Database File: costigan 34-20.db
Dataset Pathname: pass9
Presentation Format: cbl01
Dataset Creation: Wed Jul 06 18:00:42 2011 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
0	LTEN (lb)	4000

0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Amplitude (mV)	100			
200	Travel Time (usec)	275			

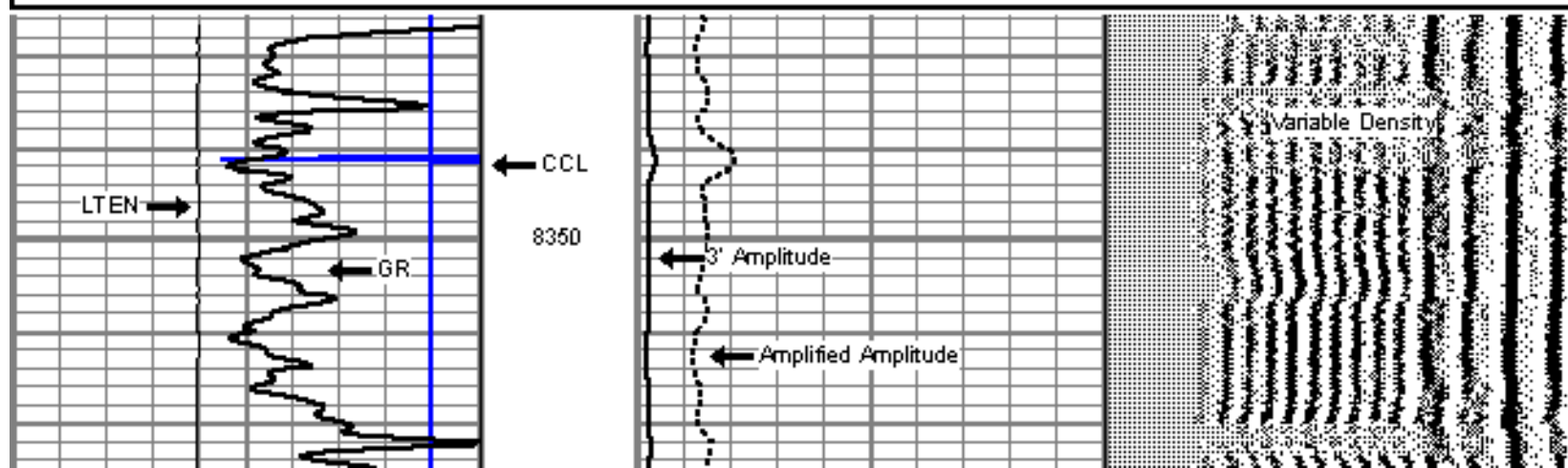
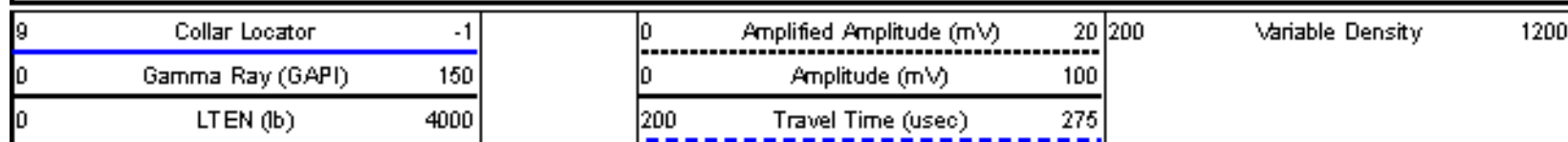


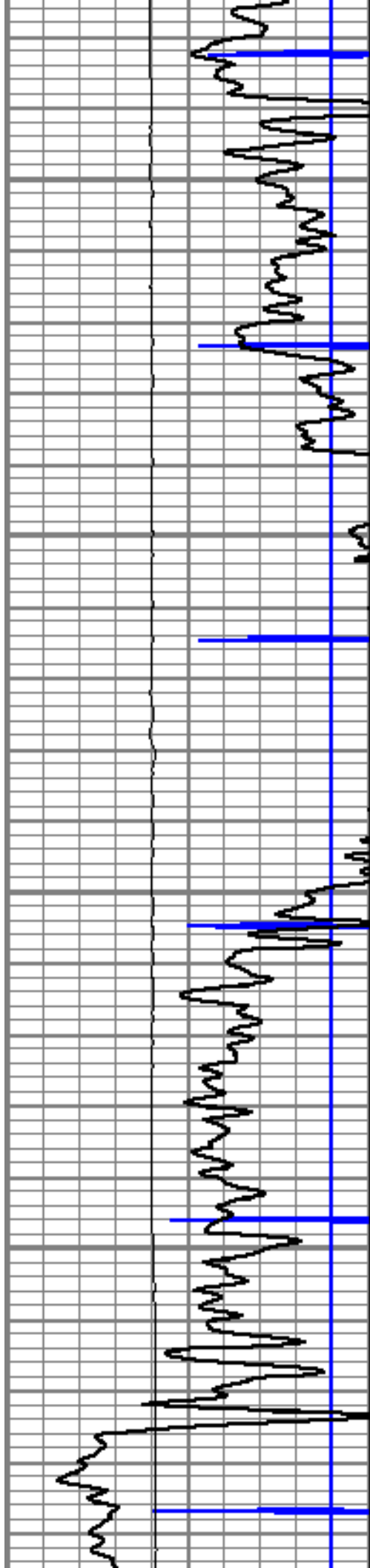


REPEAT PASS

5" = 100'

Database File: costigan 34-20.db
 Dataset Pathname: pass8
 Presentation Format: cbl01
 Dataset Creation: Wed Jul 06 17:40:44 2011 by Log Std Casedhole 09061
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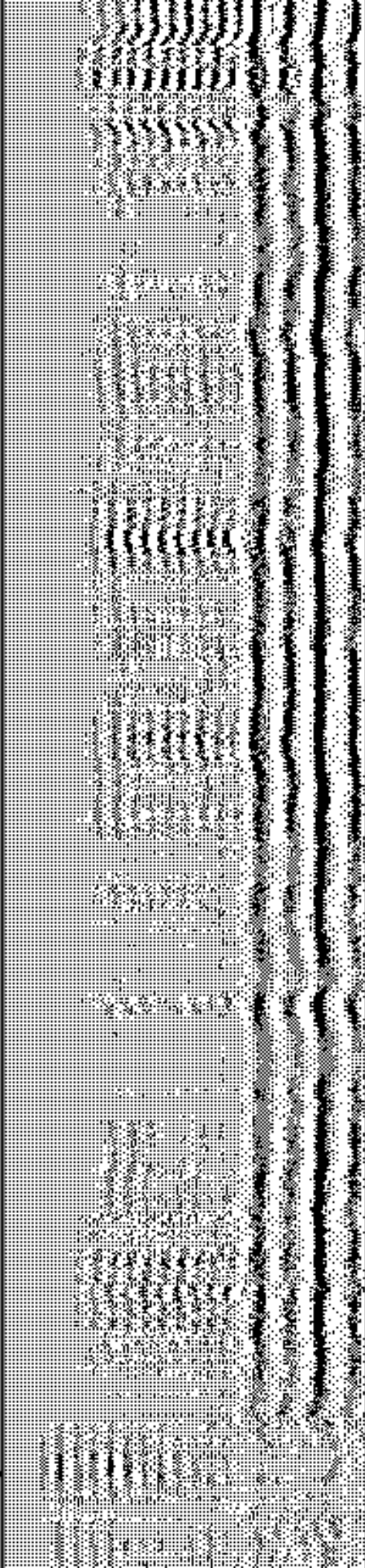
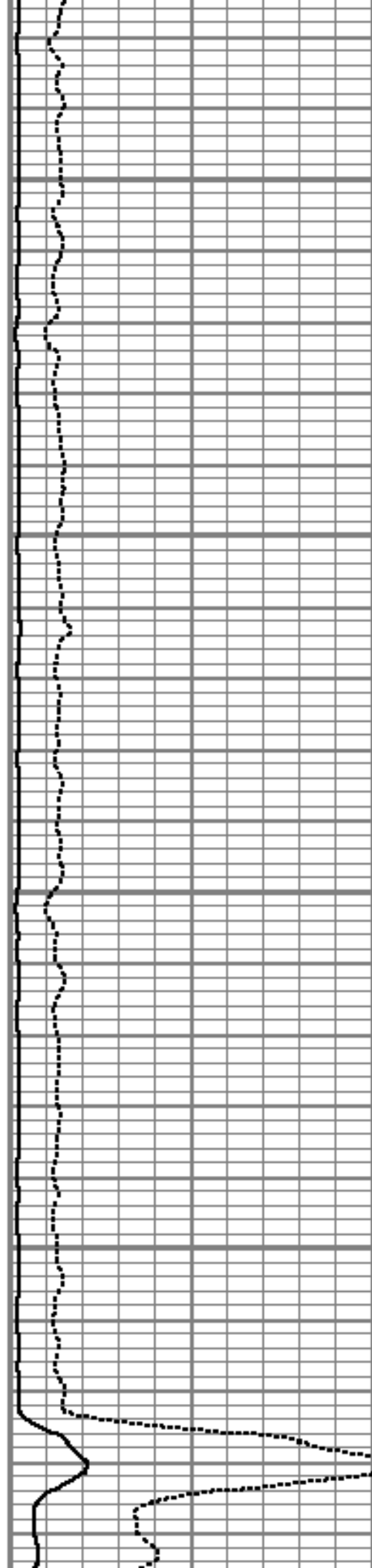


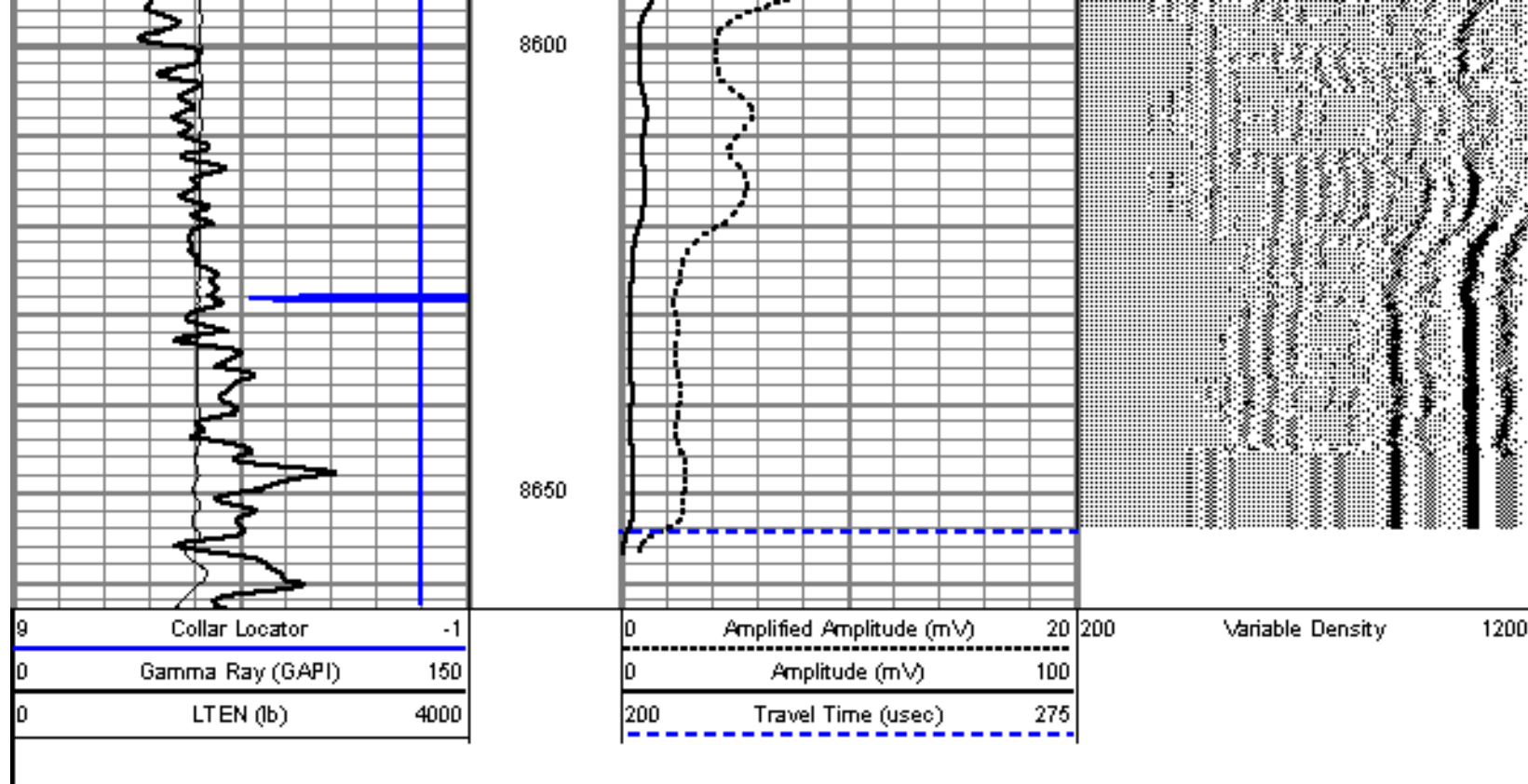
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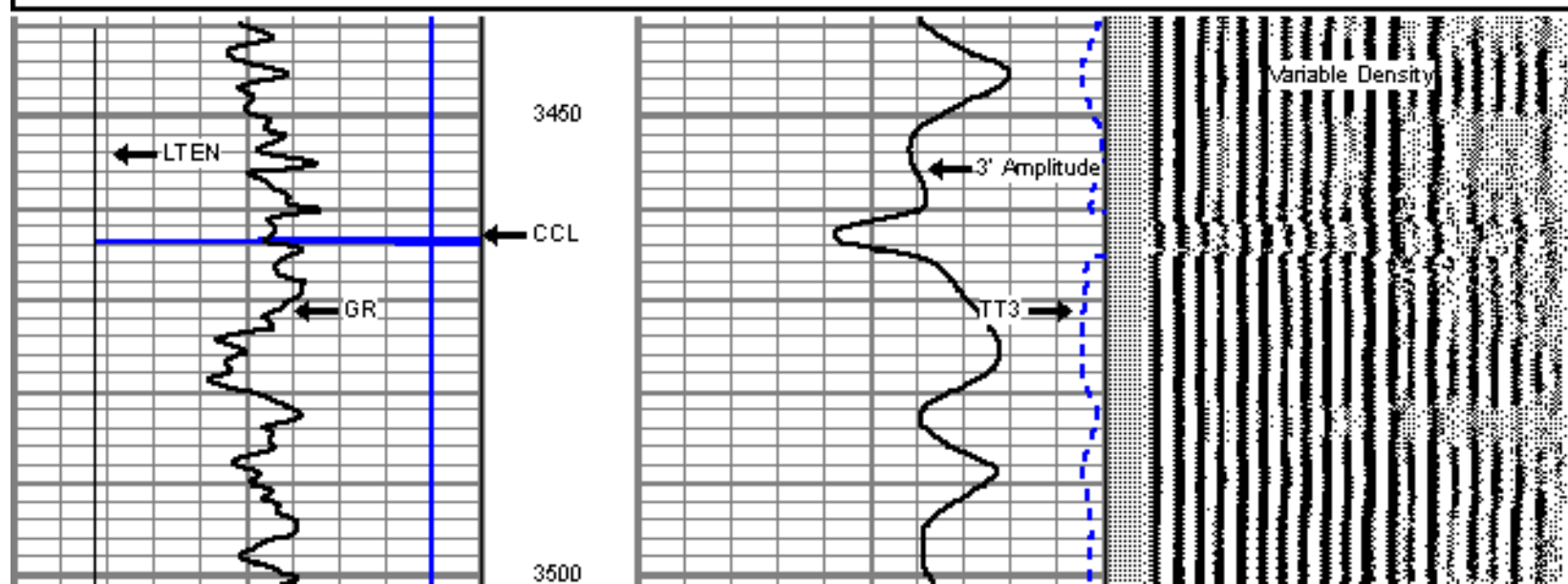
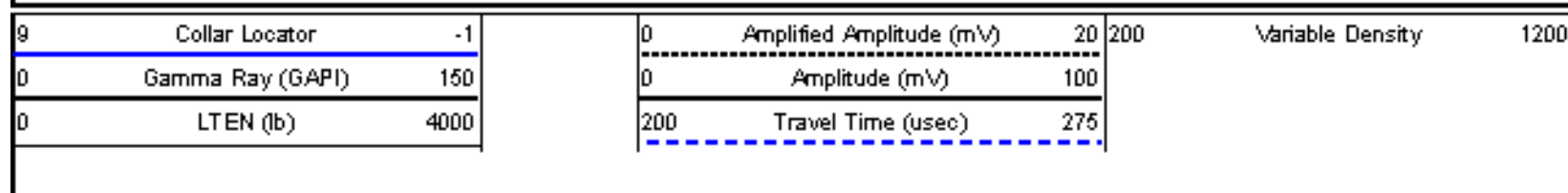


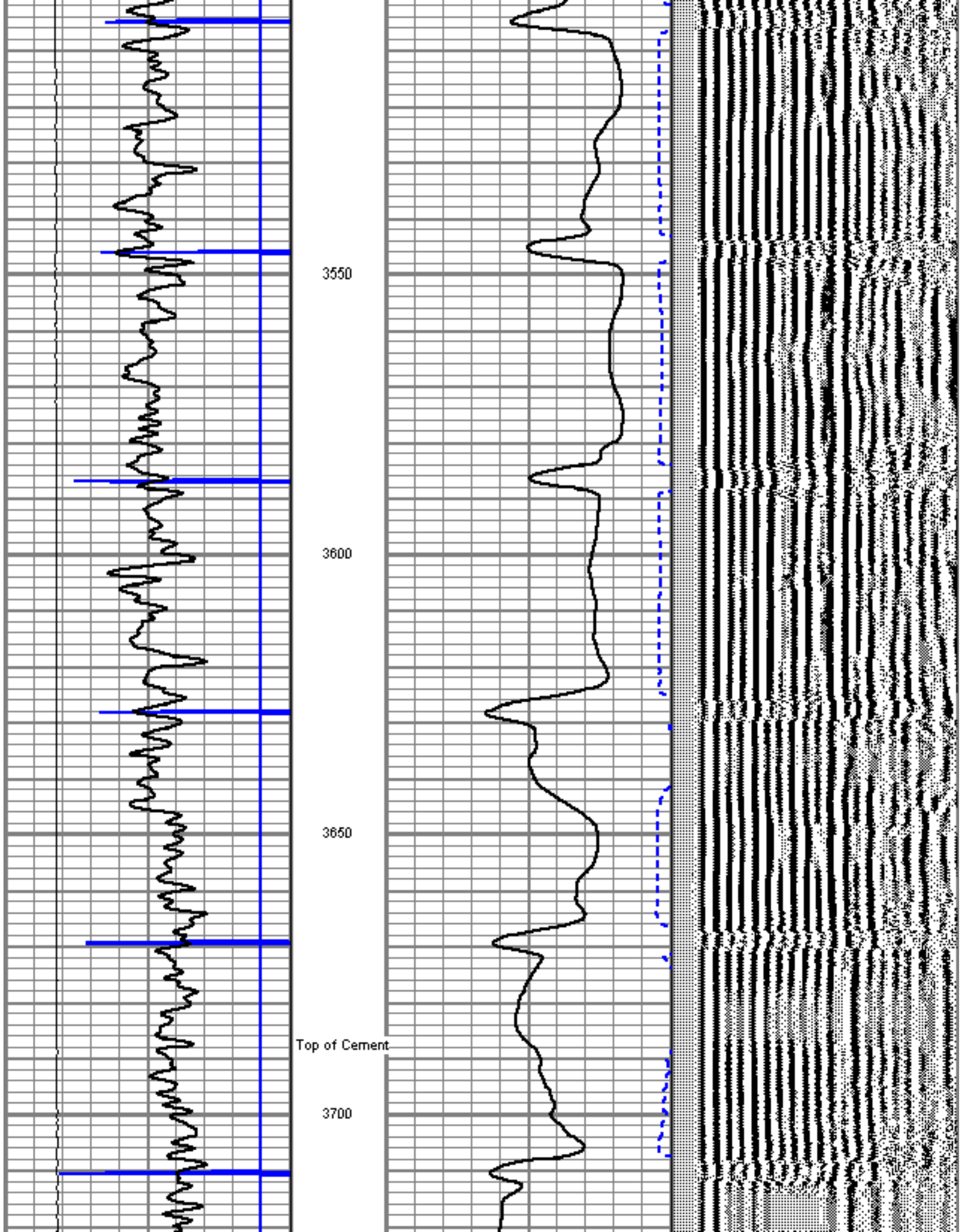


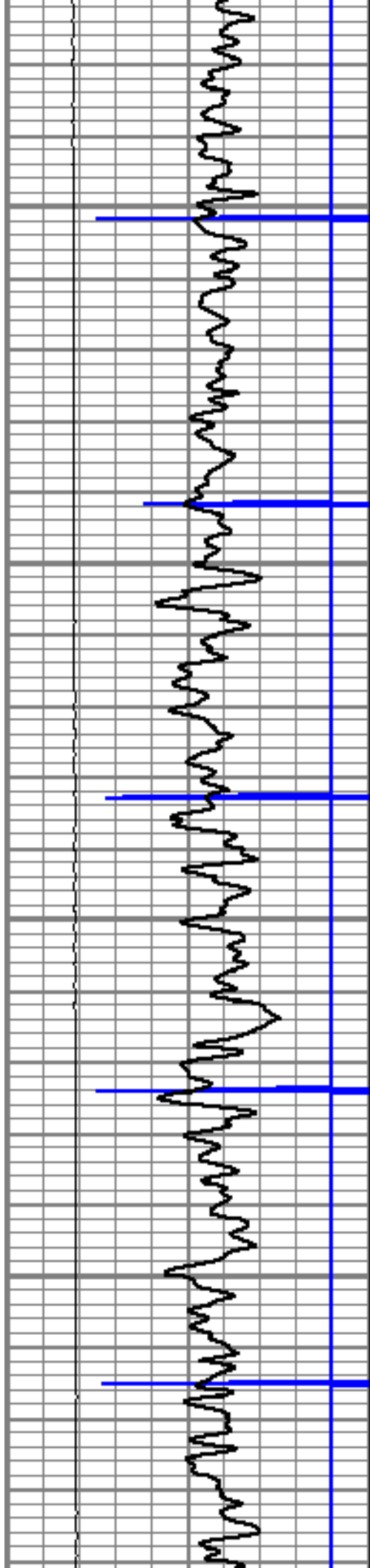
MAIN PASS

5" = 100'

Database File: costigan 34-20.db
 Dataset Pathname: pass6
 Presentation Format: cbl01
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 Charted by: Depth in Feet scaled 1:240





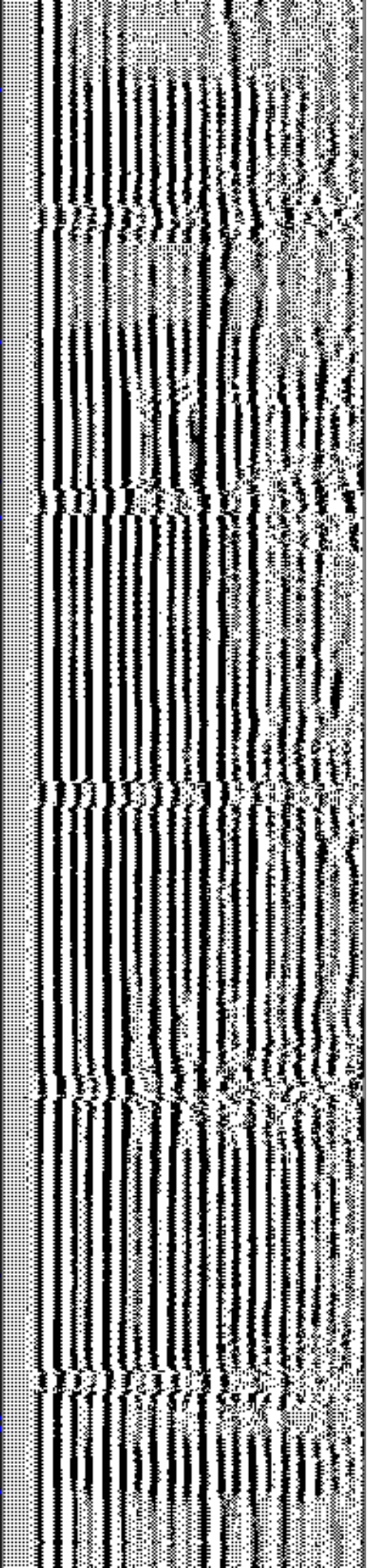
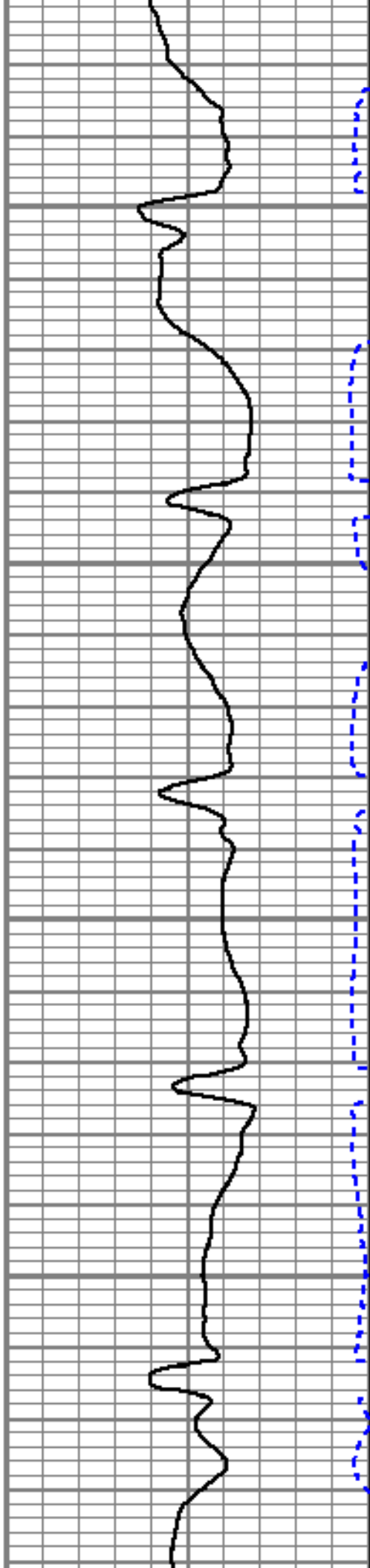


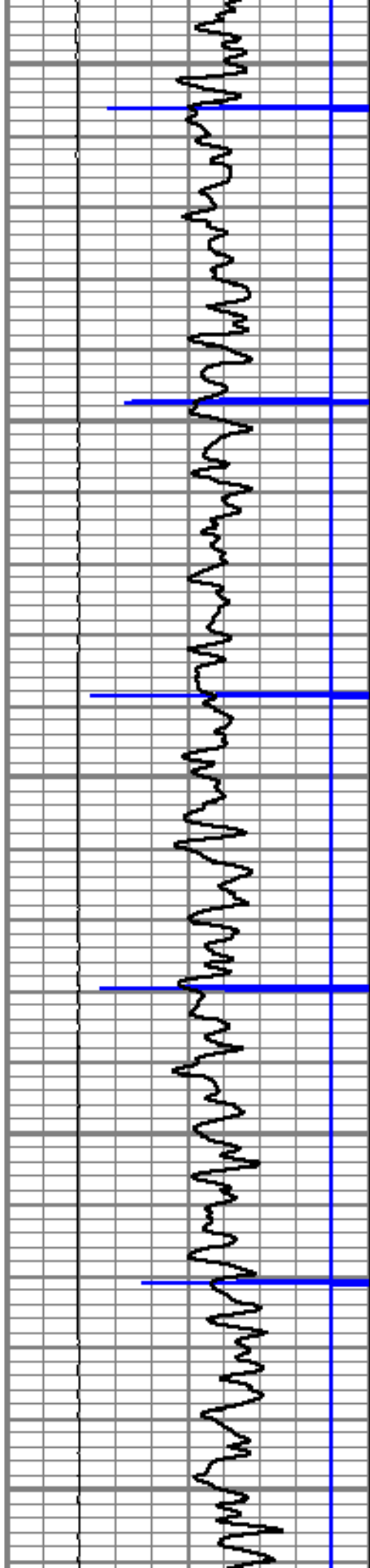
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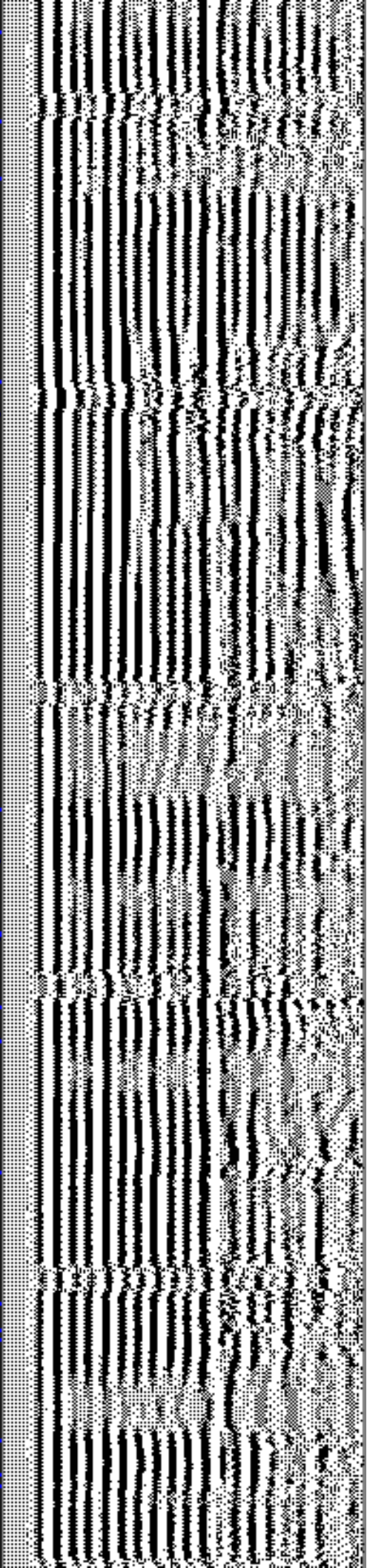
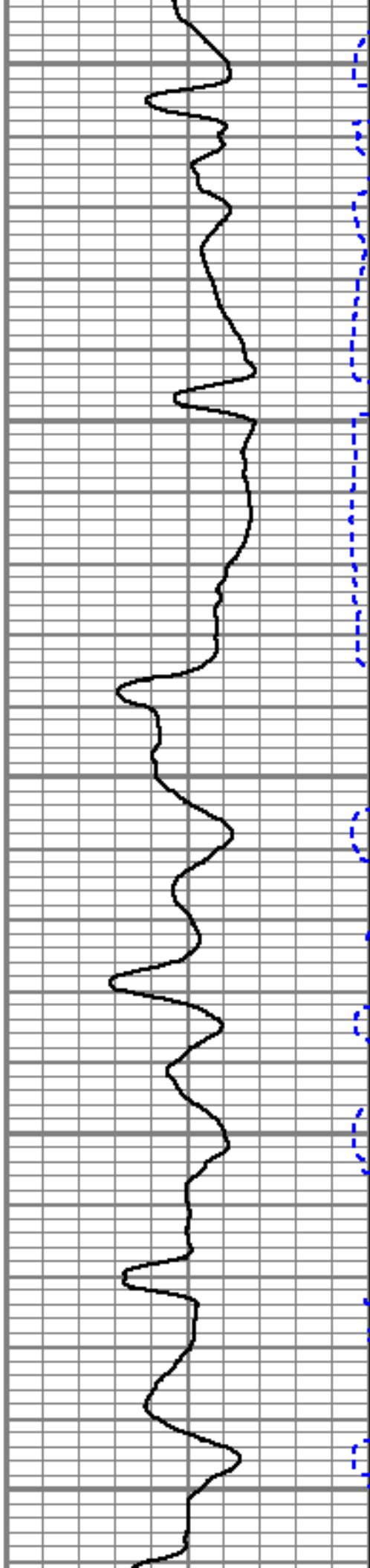
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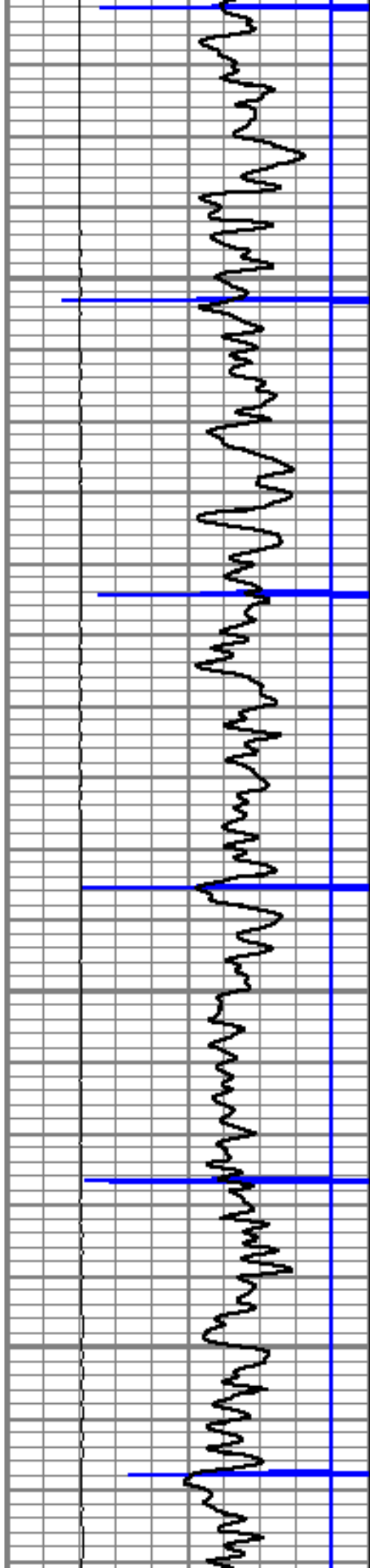
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4100

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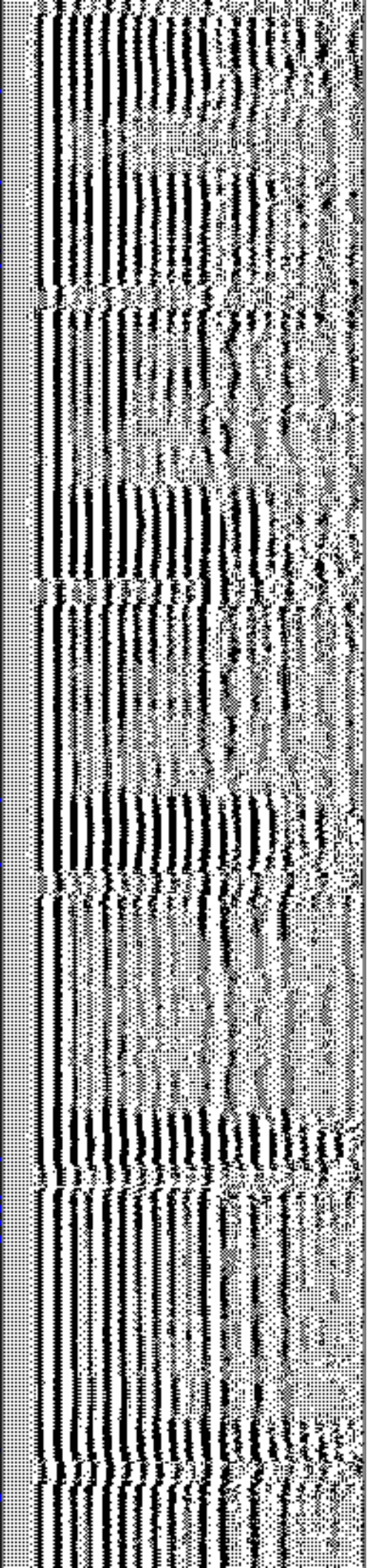
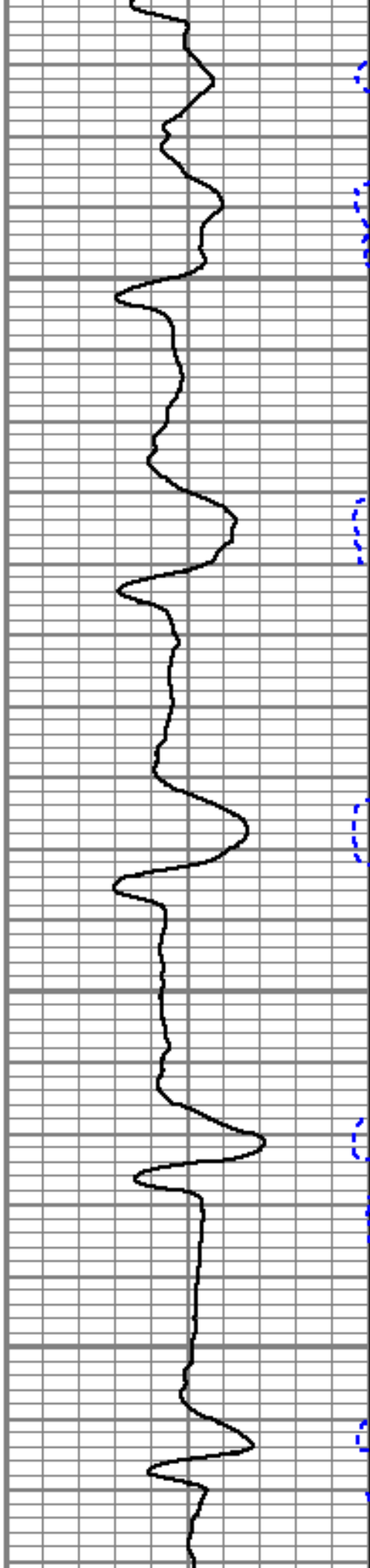


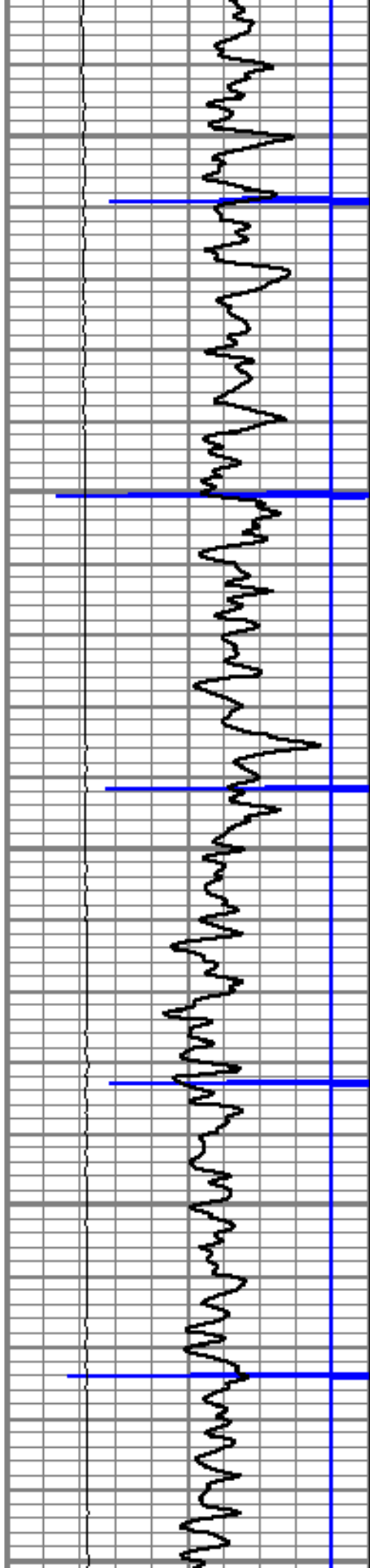
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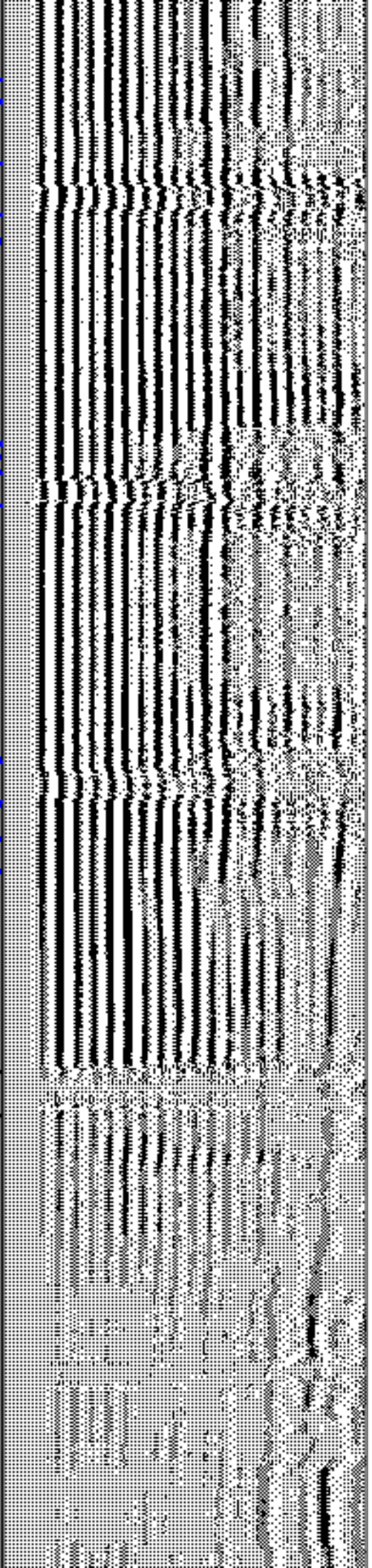
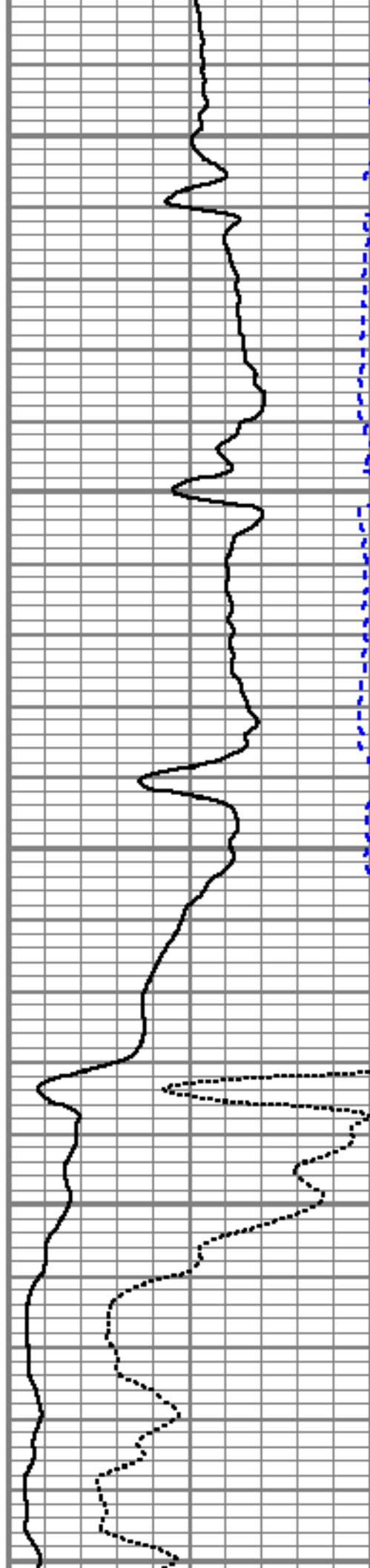
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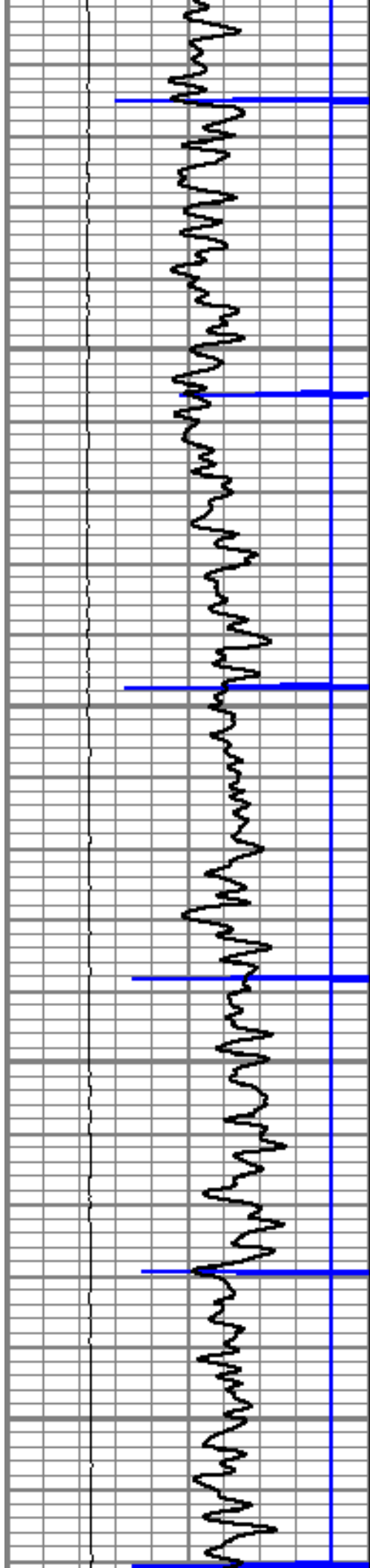
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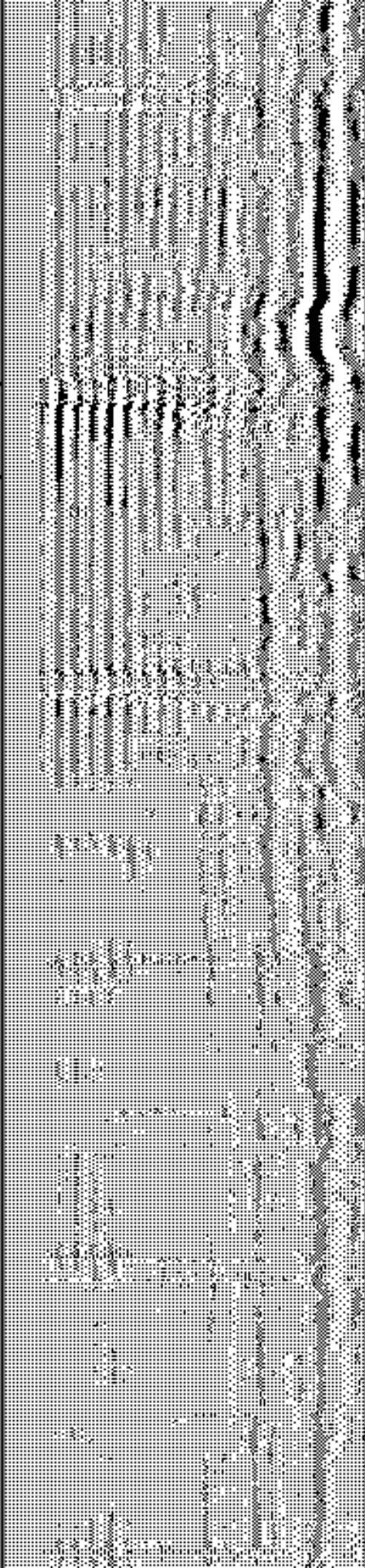
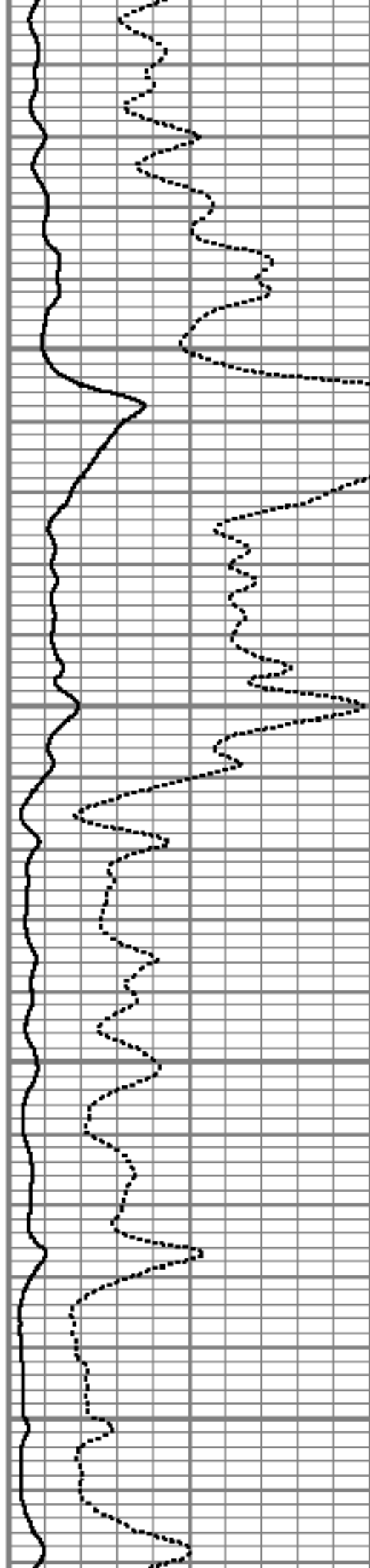


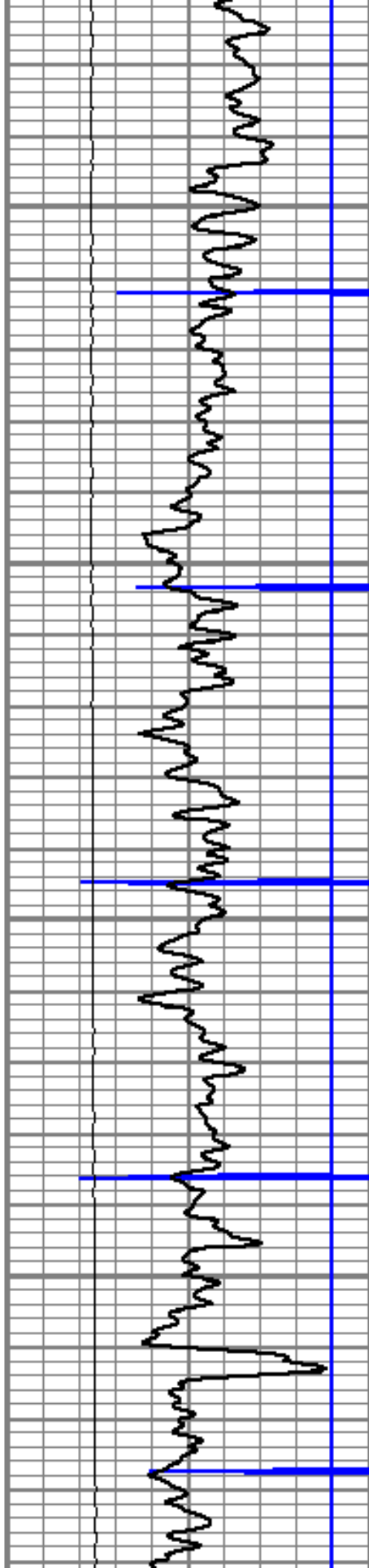
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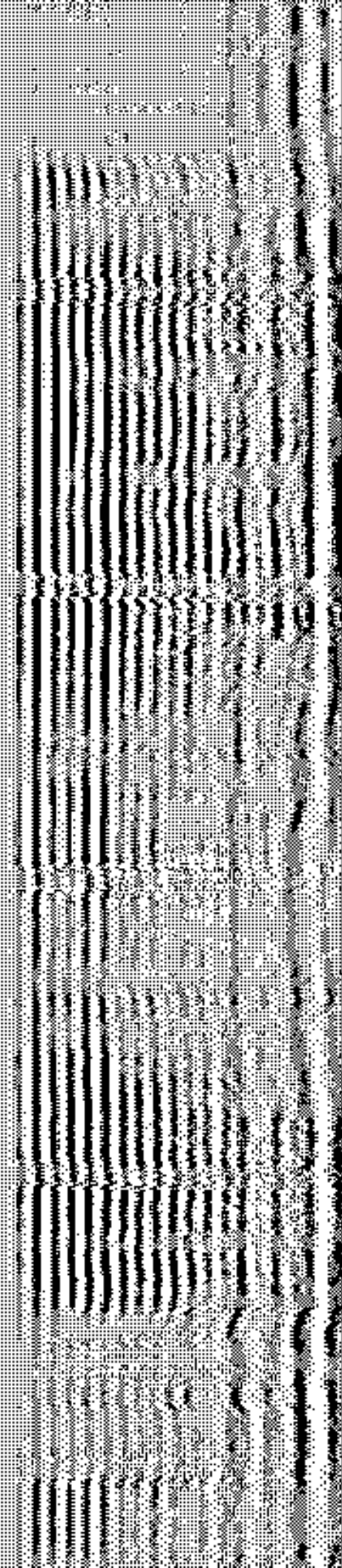
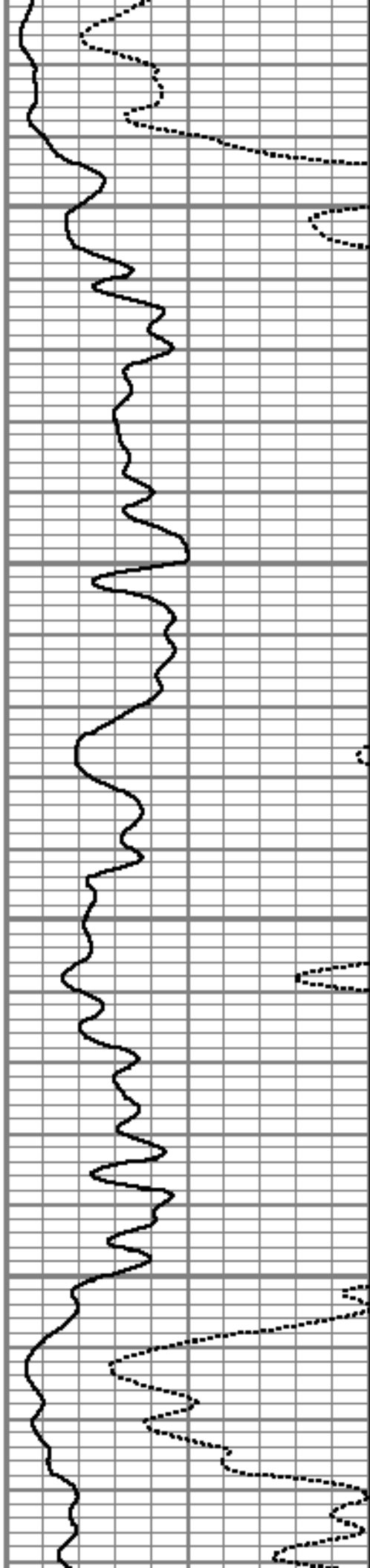


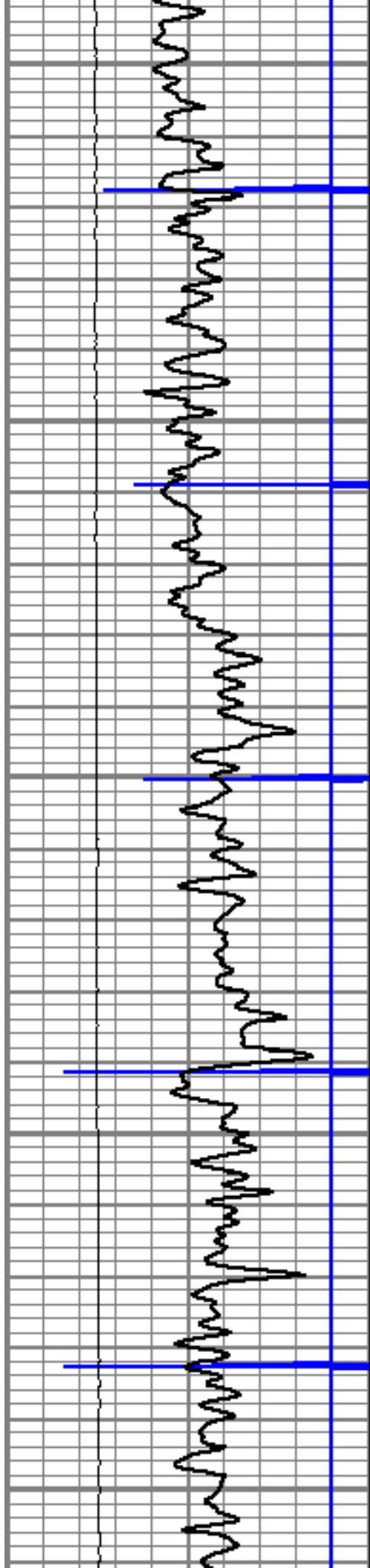
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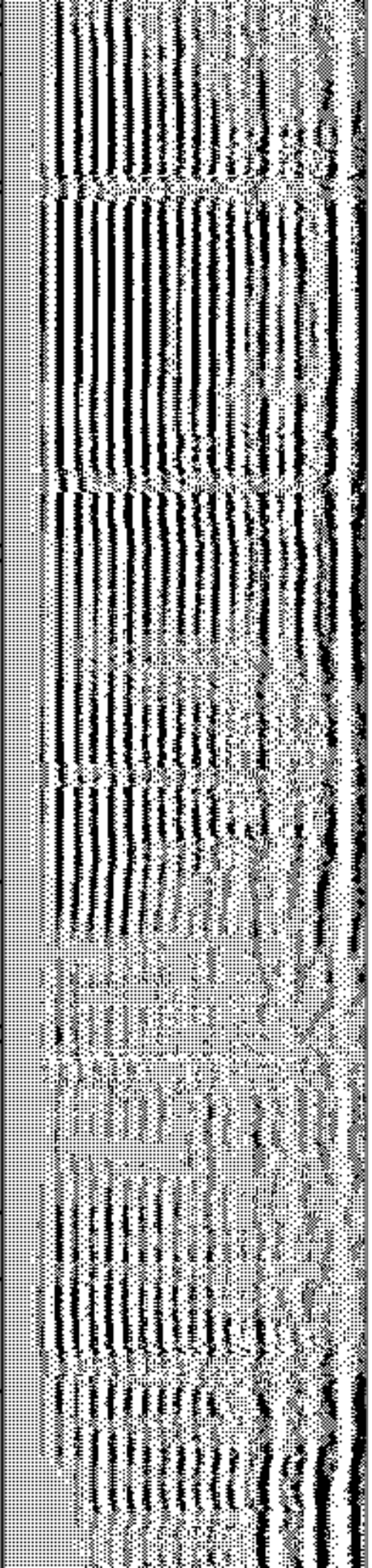
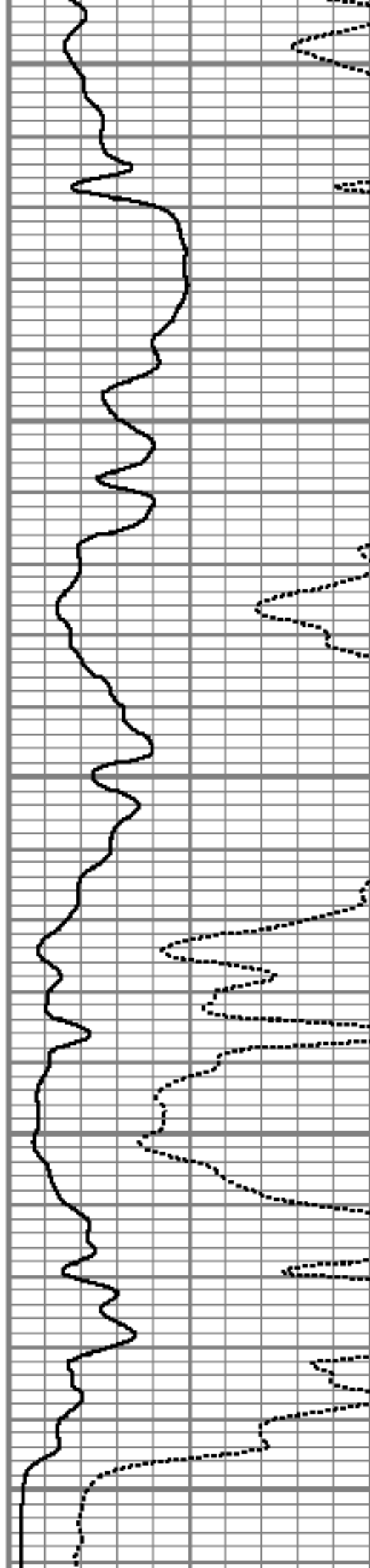
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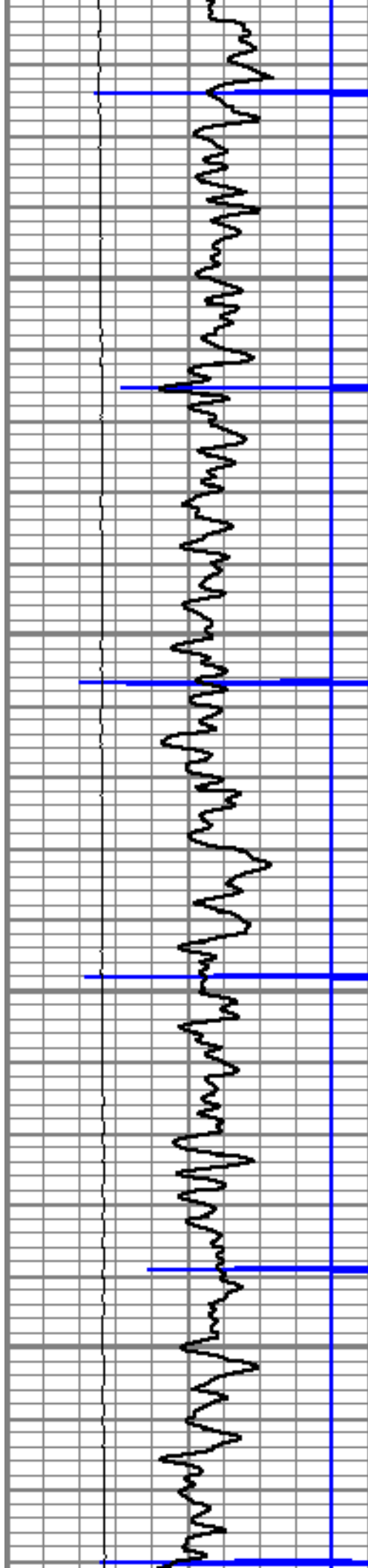
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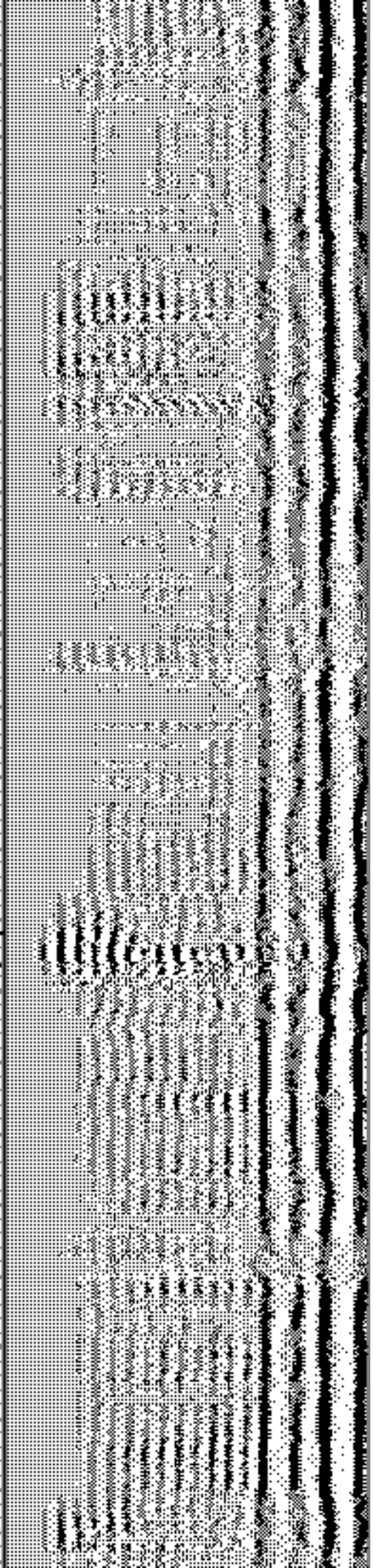
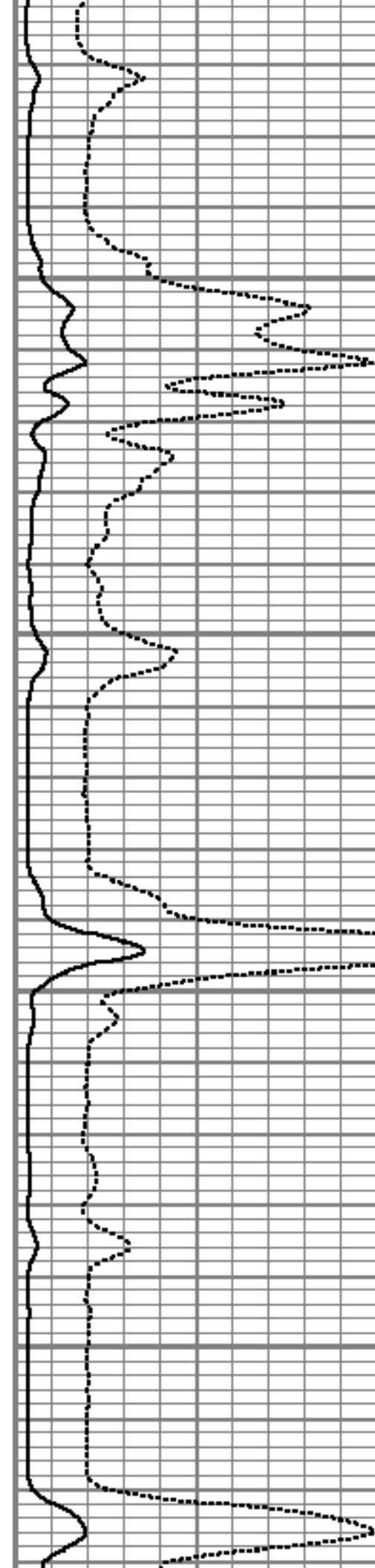


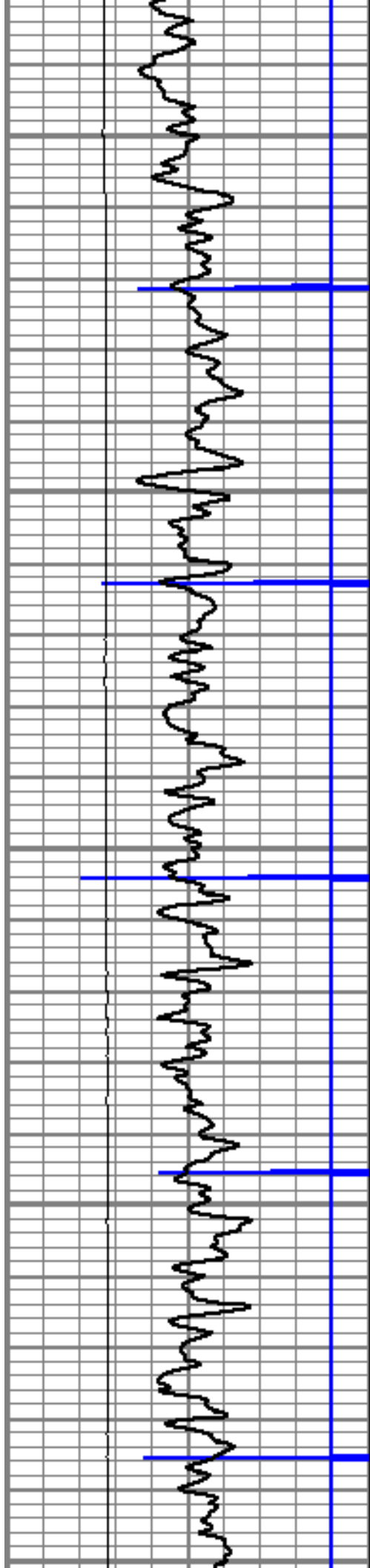
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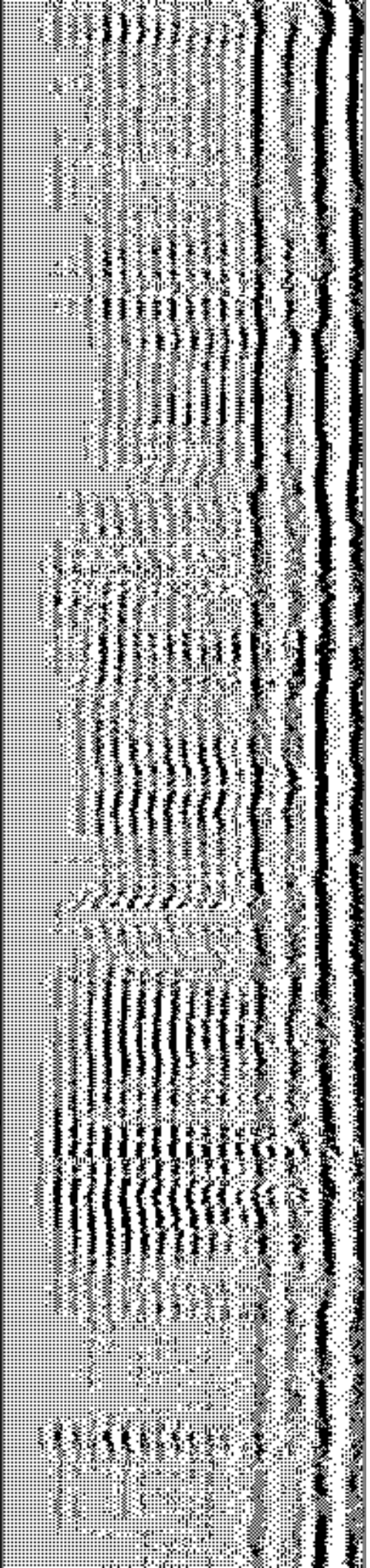
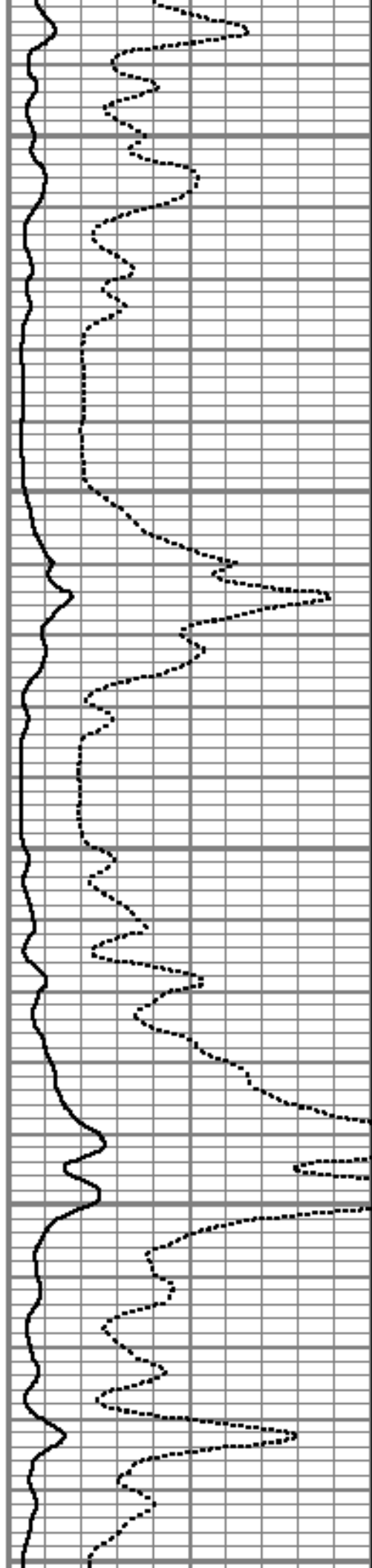
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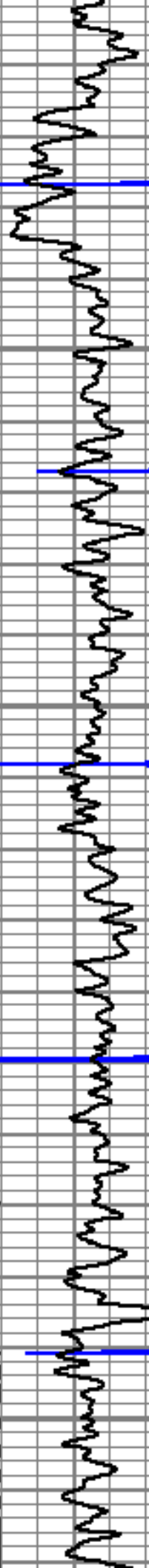
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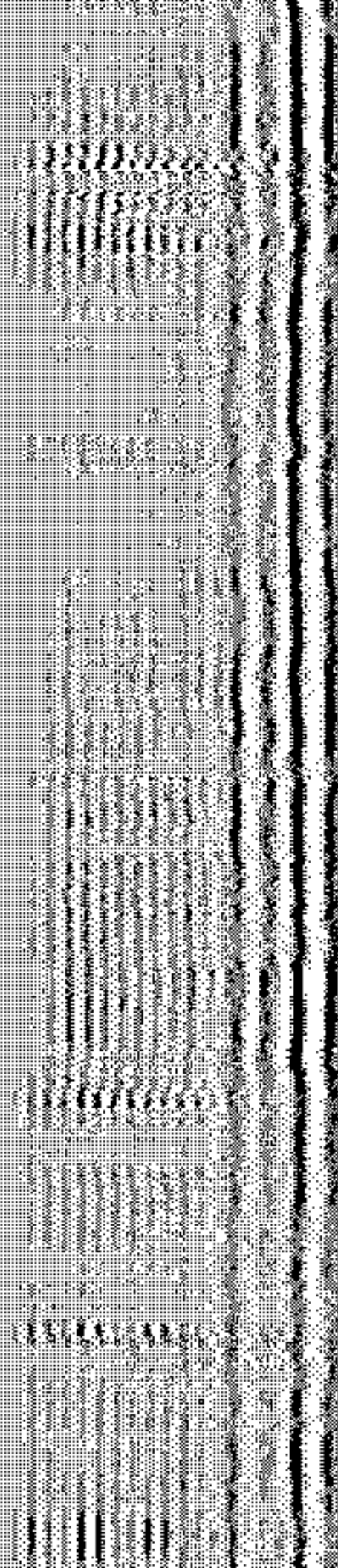
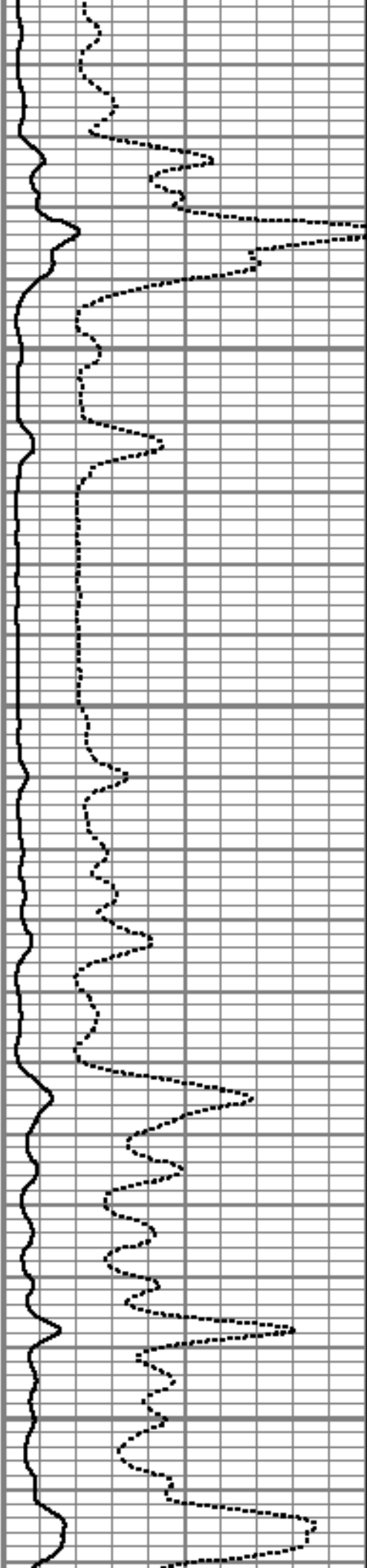


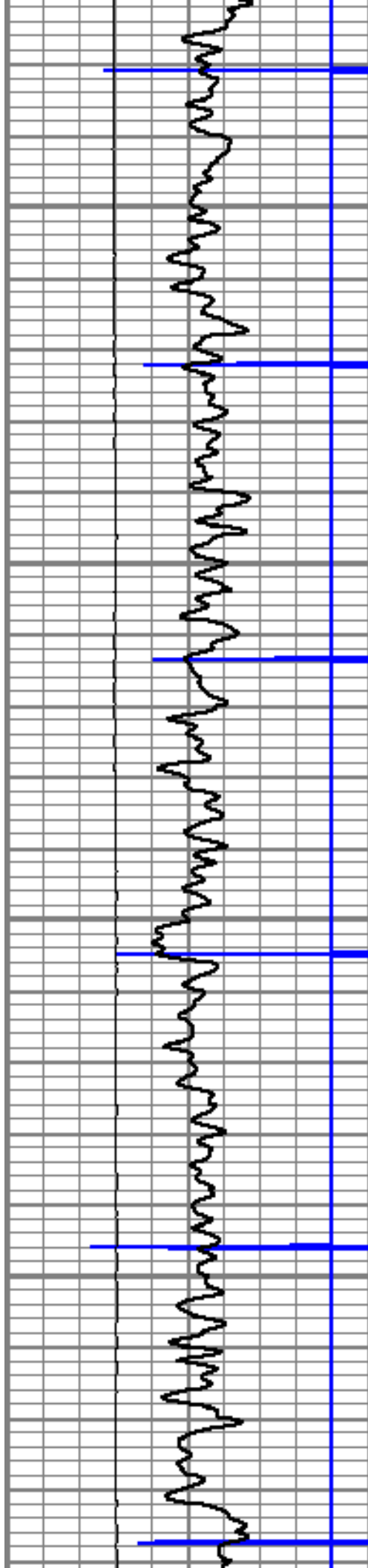
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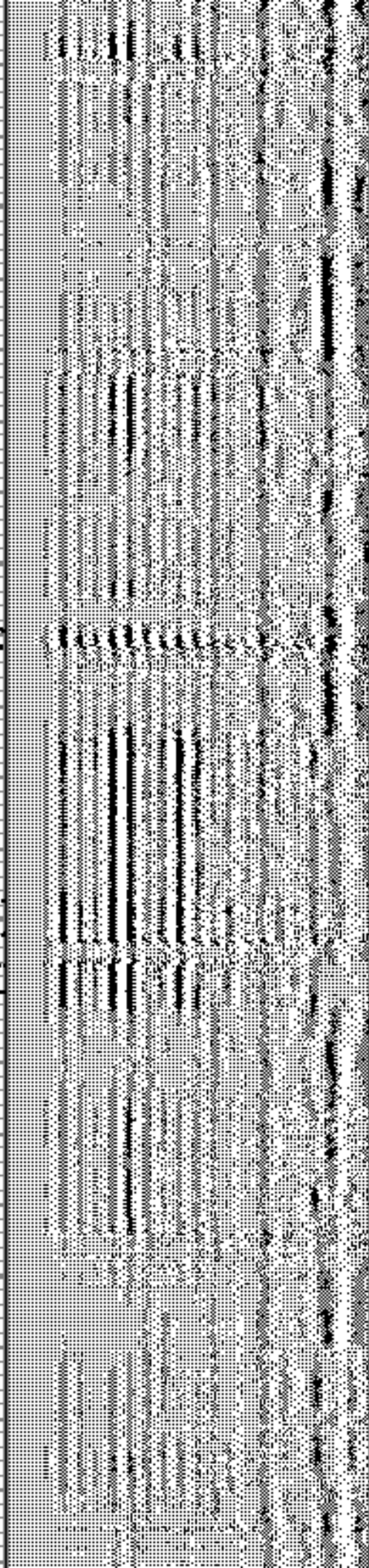
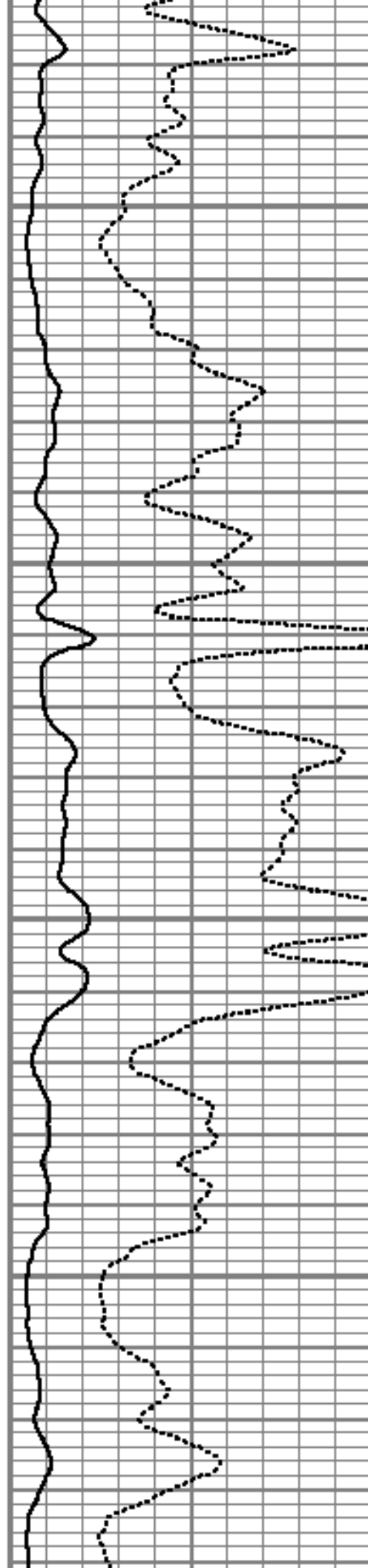


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6000

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6100



↑ LTEN



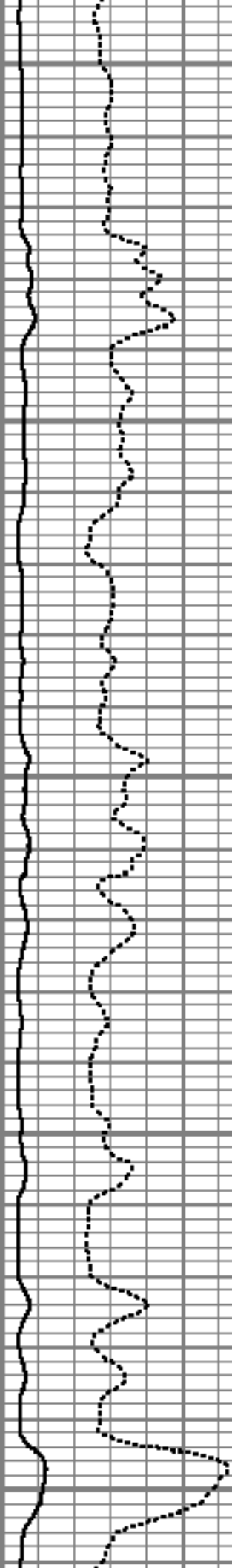
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6200

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amplitude

time

depth

velocity

acceleration

strain

stress

displacement

rotation

curvature

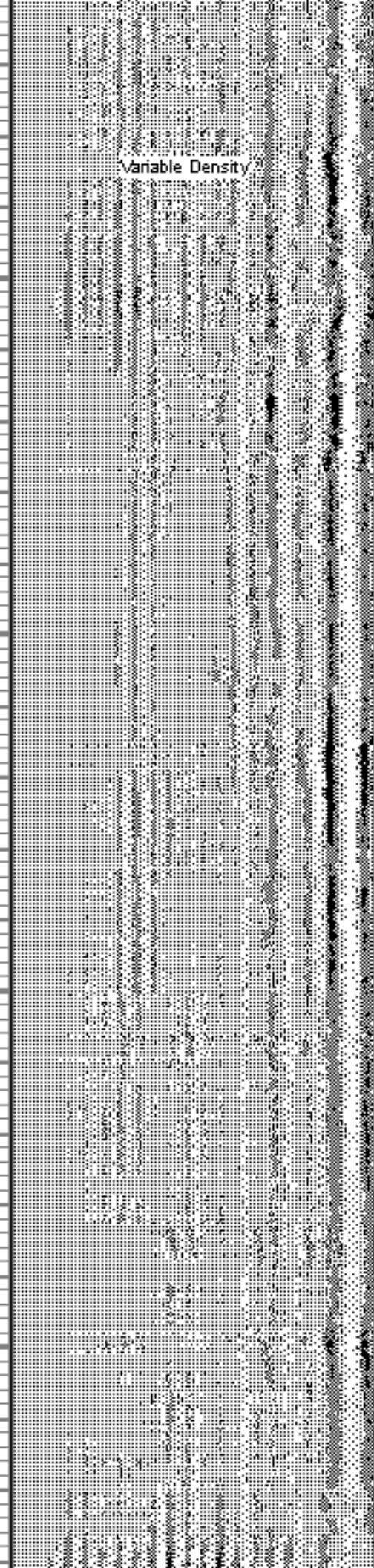
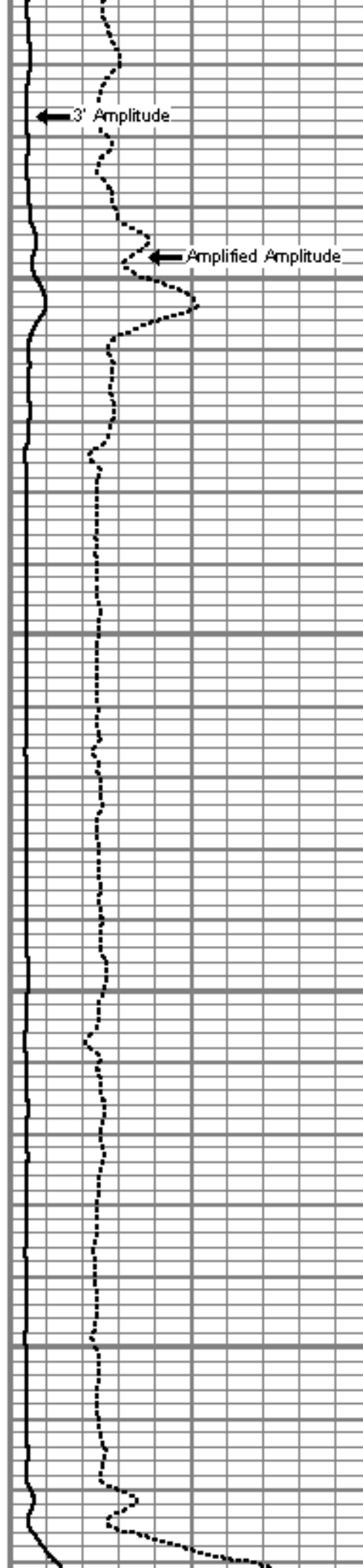
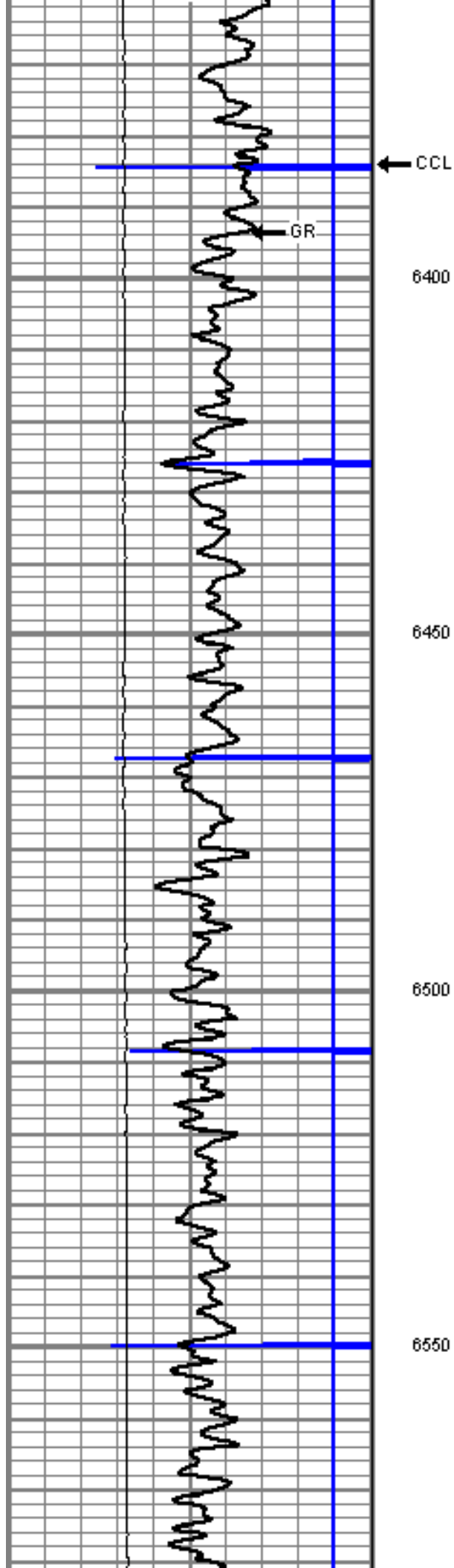
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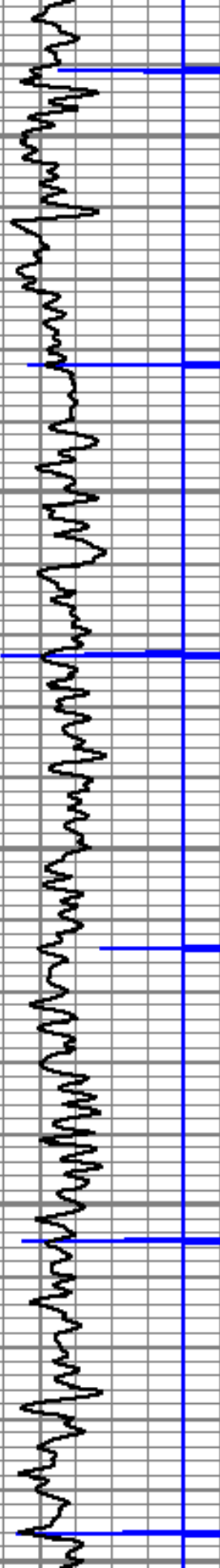
force

torque

power

energy





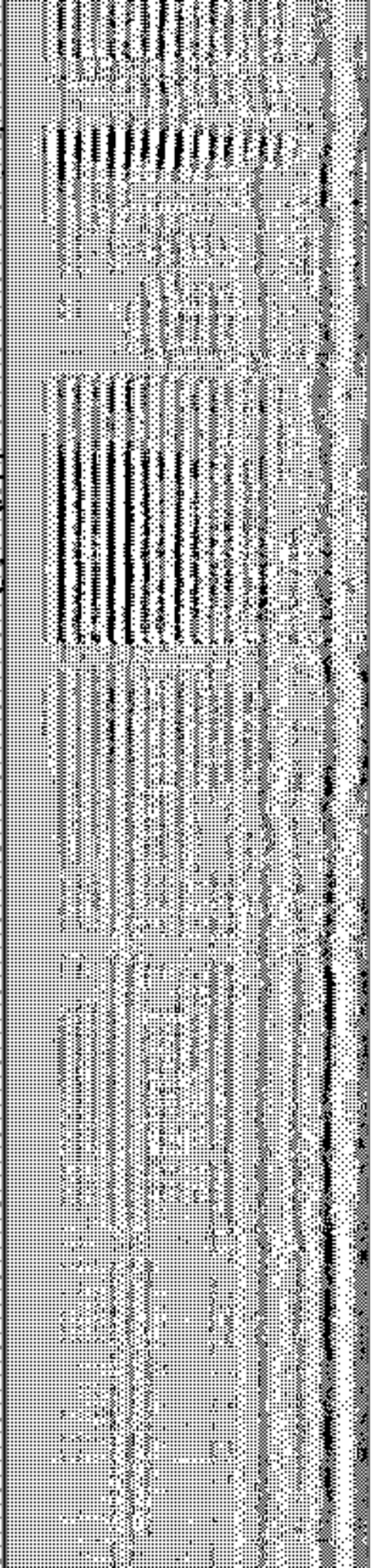
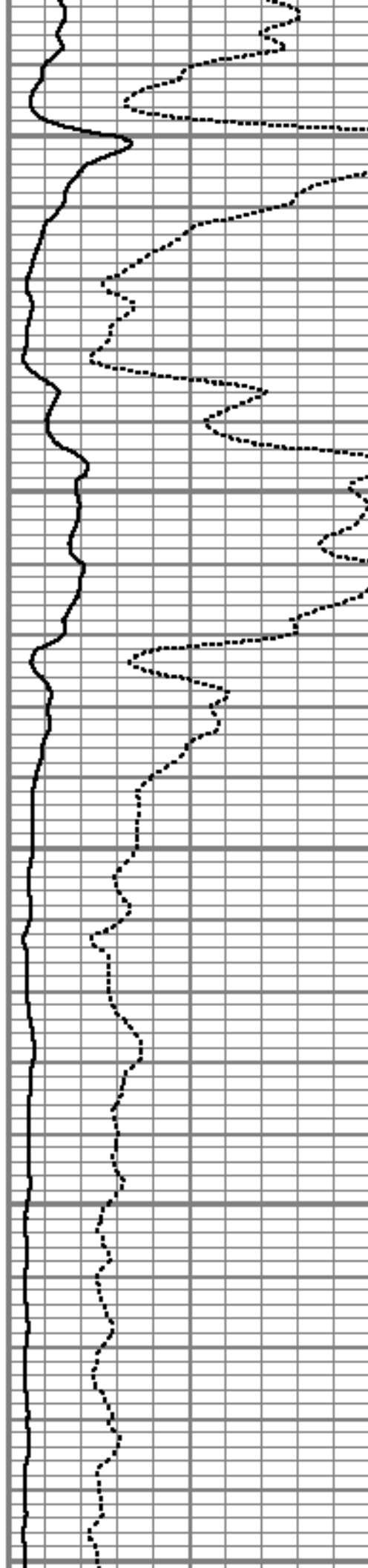
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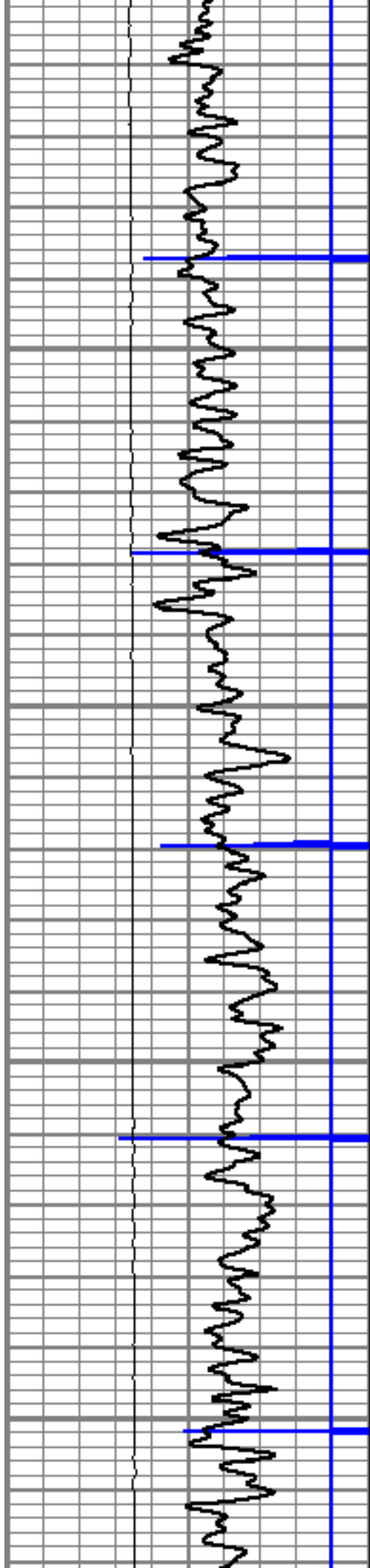
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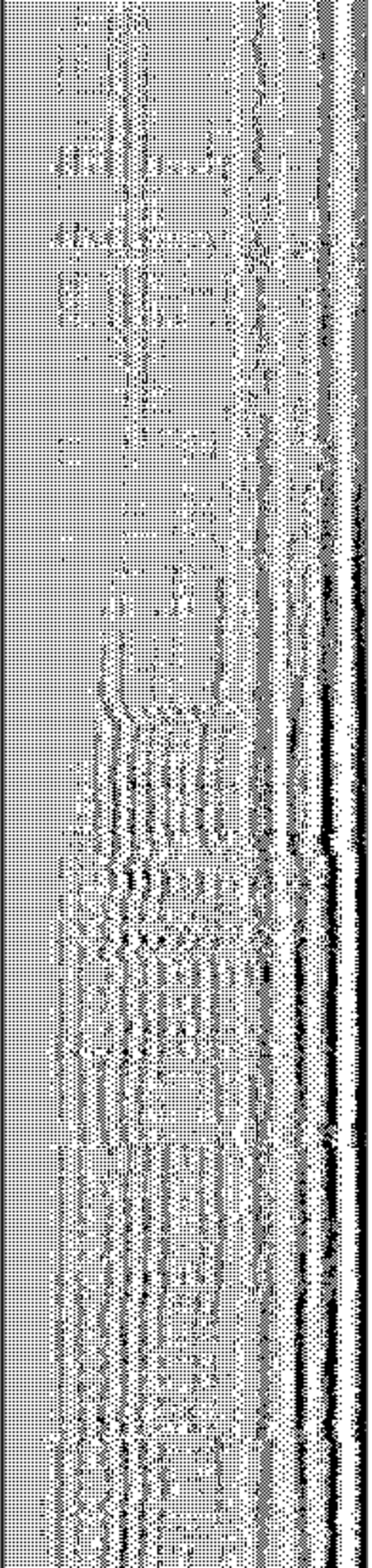
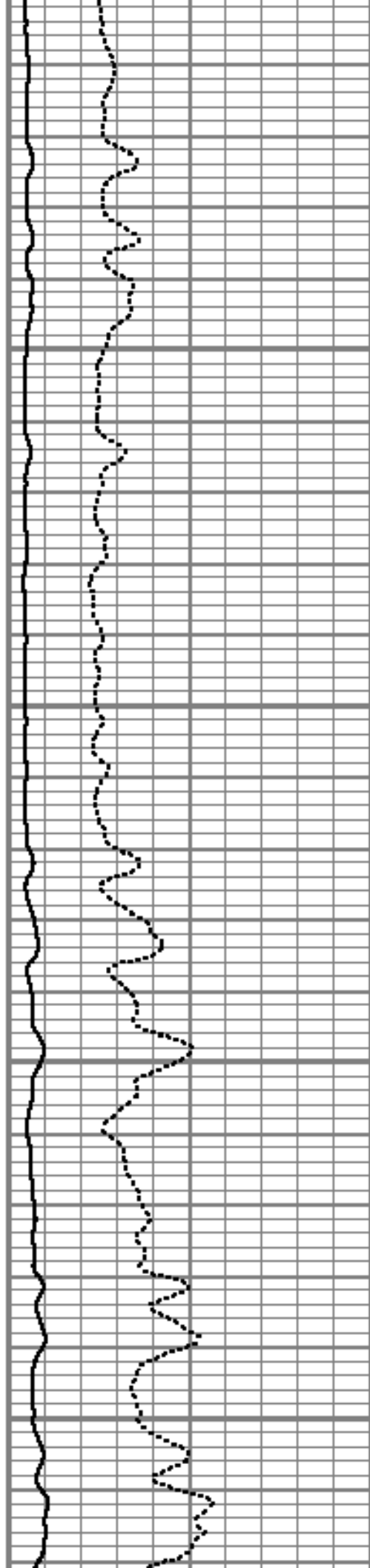


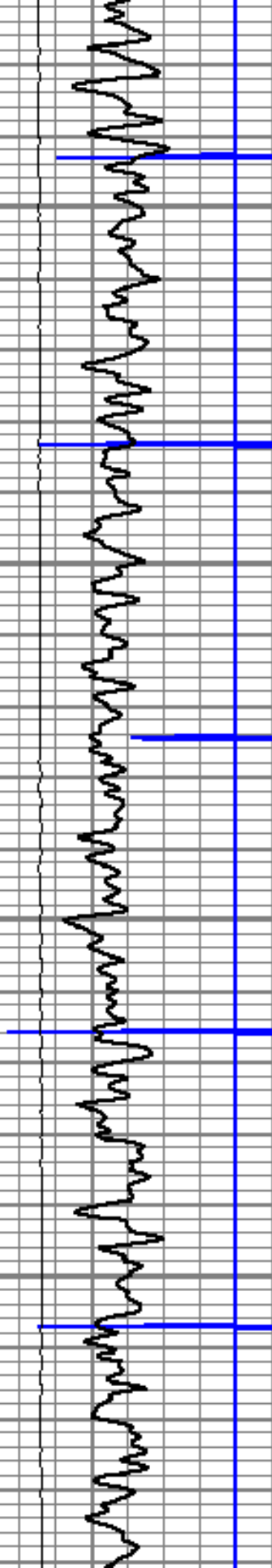
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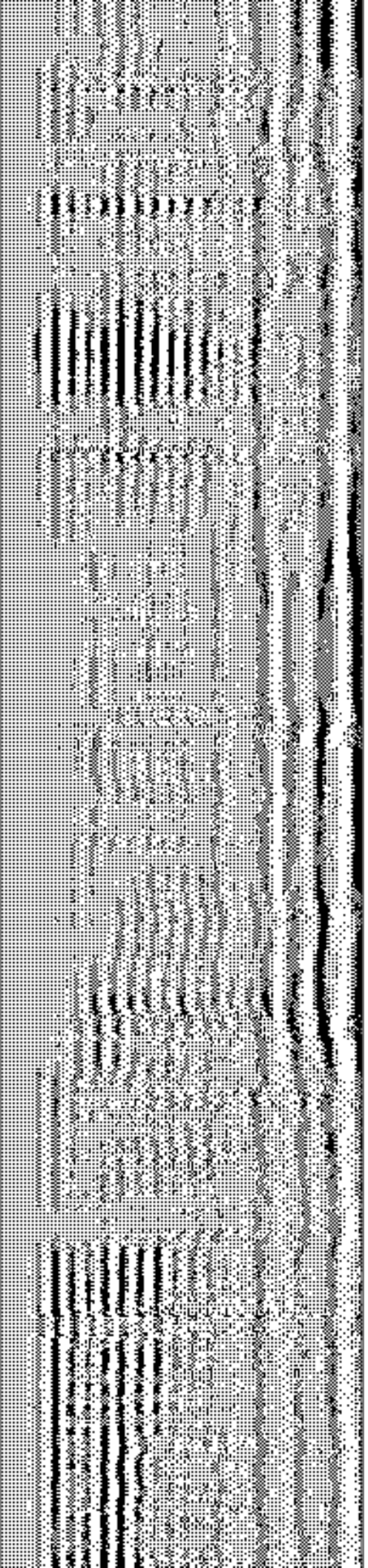


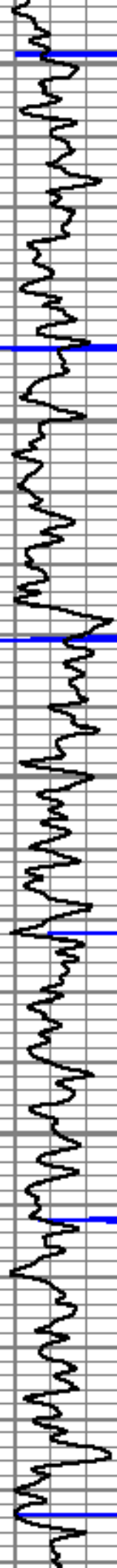
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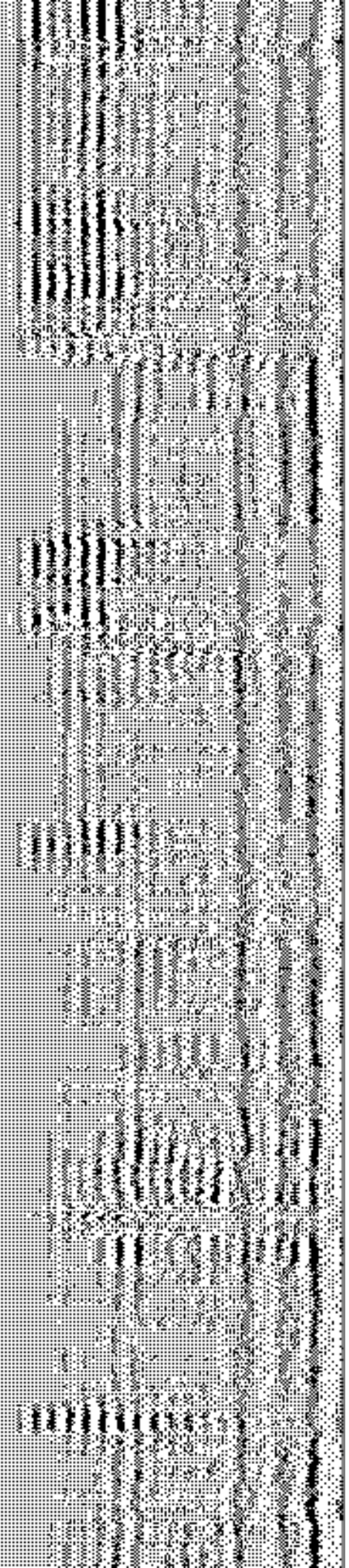
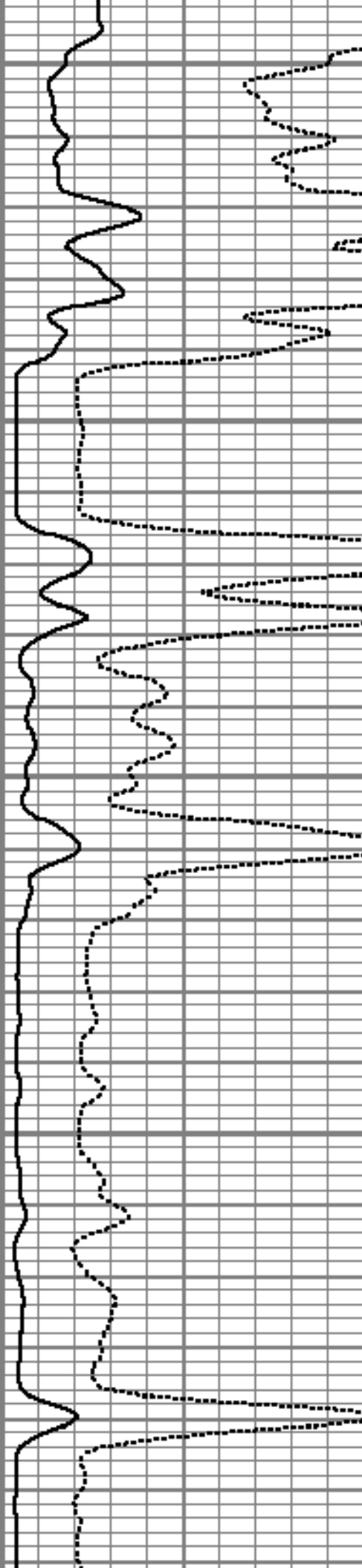
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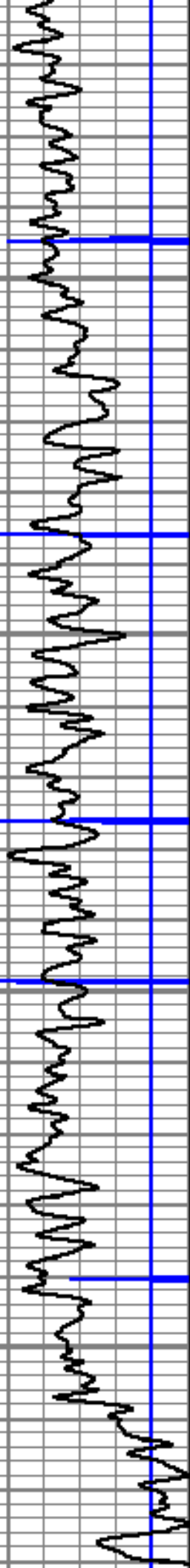
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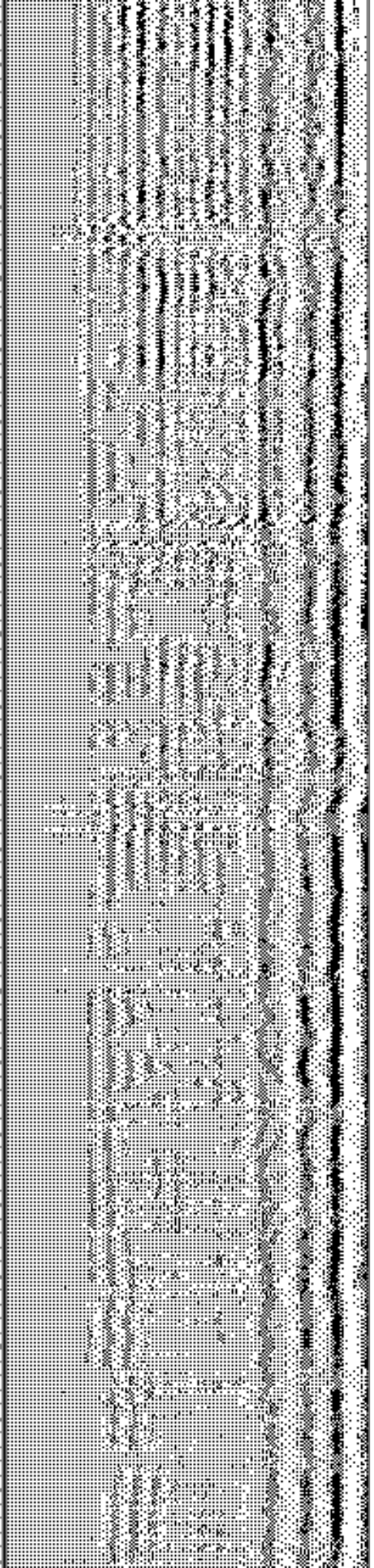
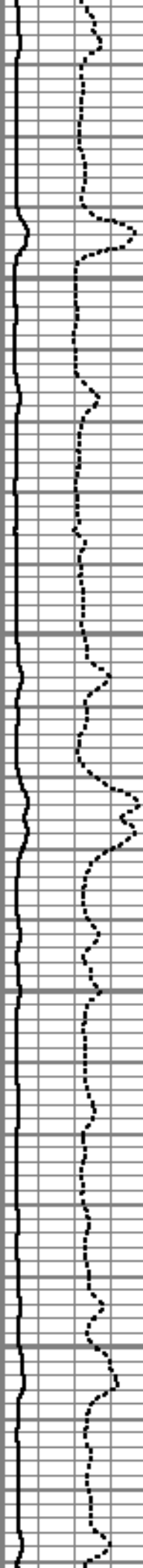
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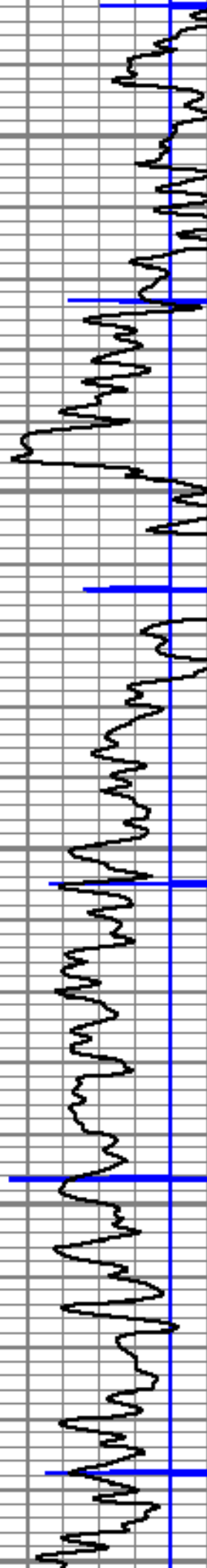
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Short Joint

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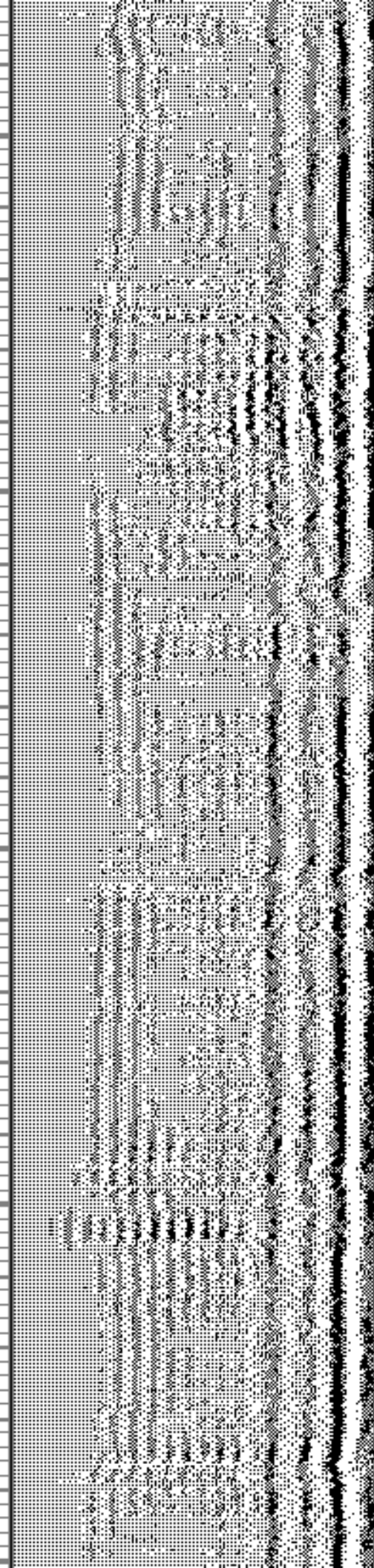
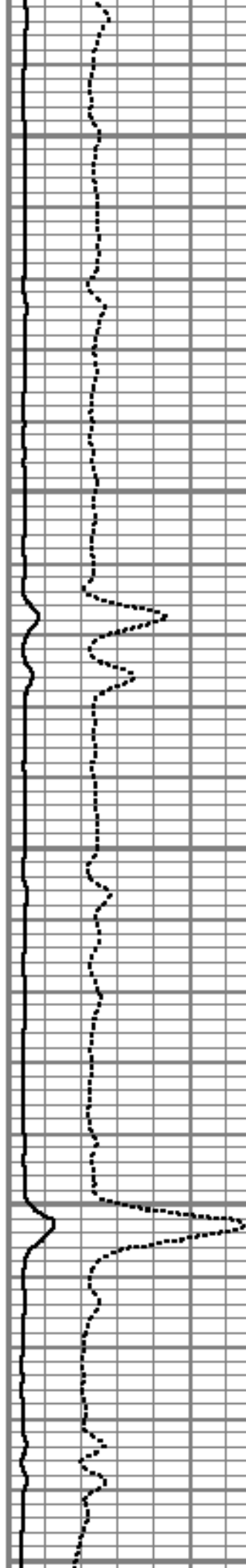
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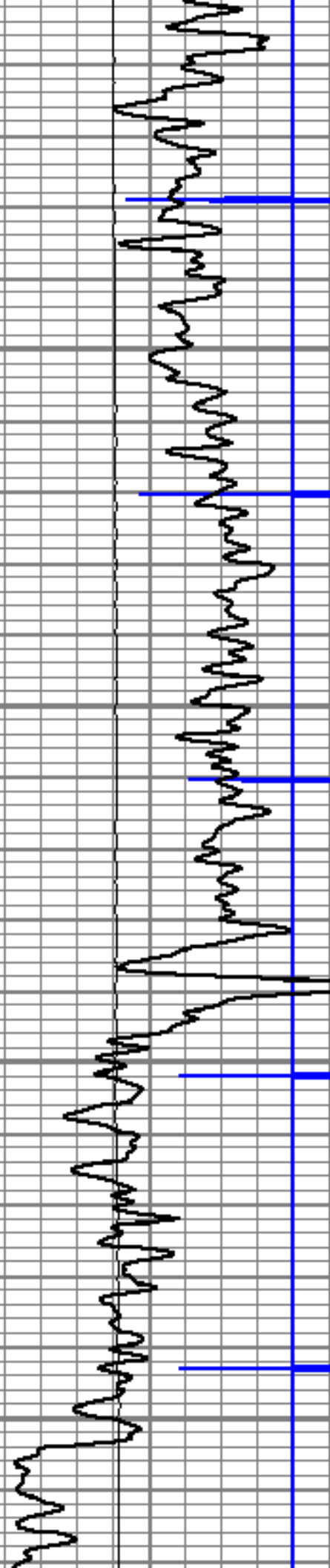
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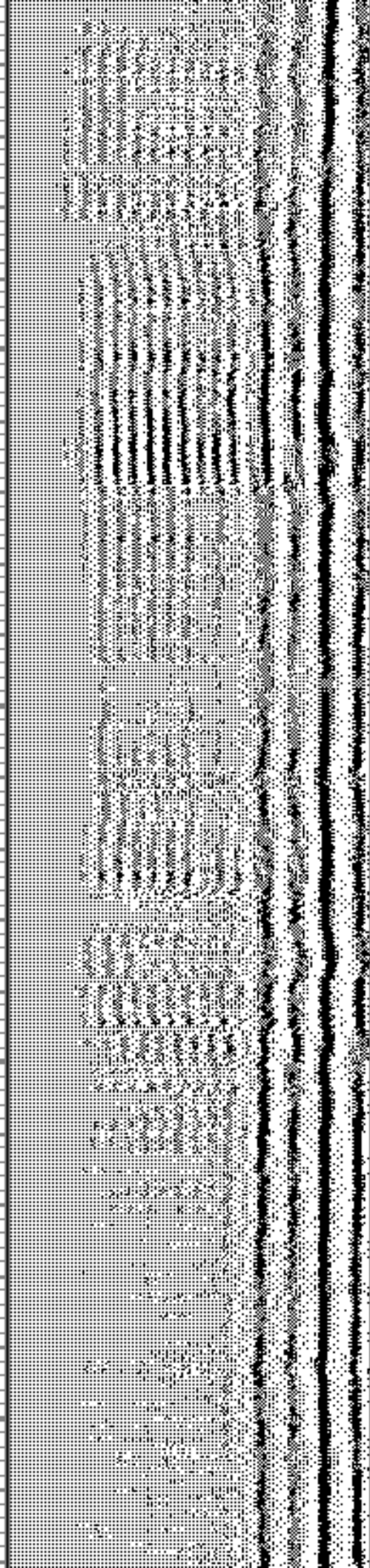
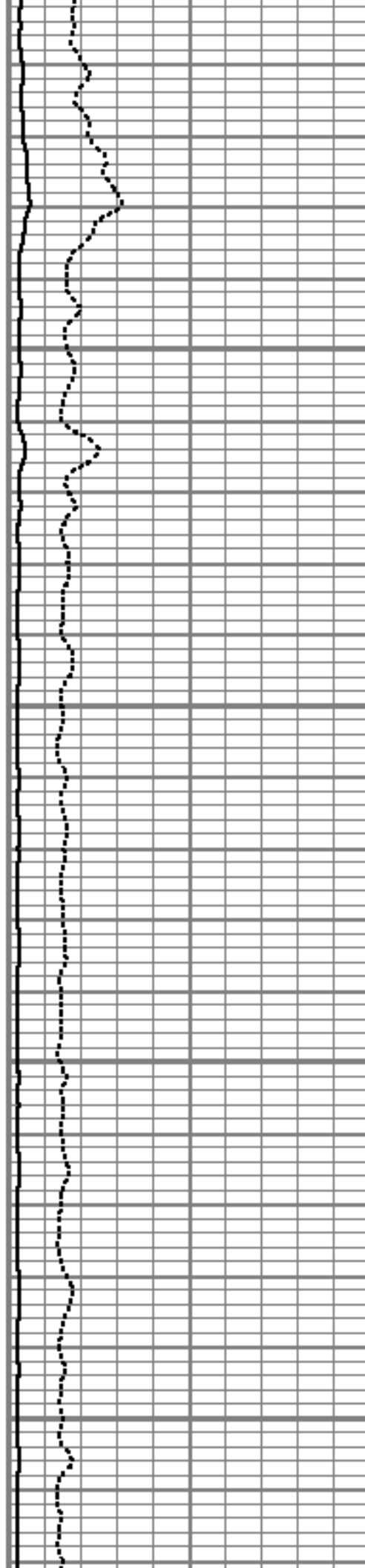


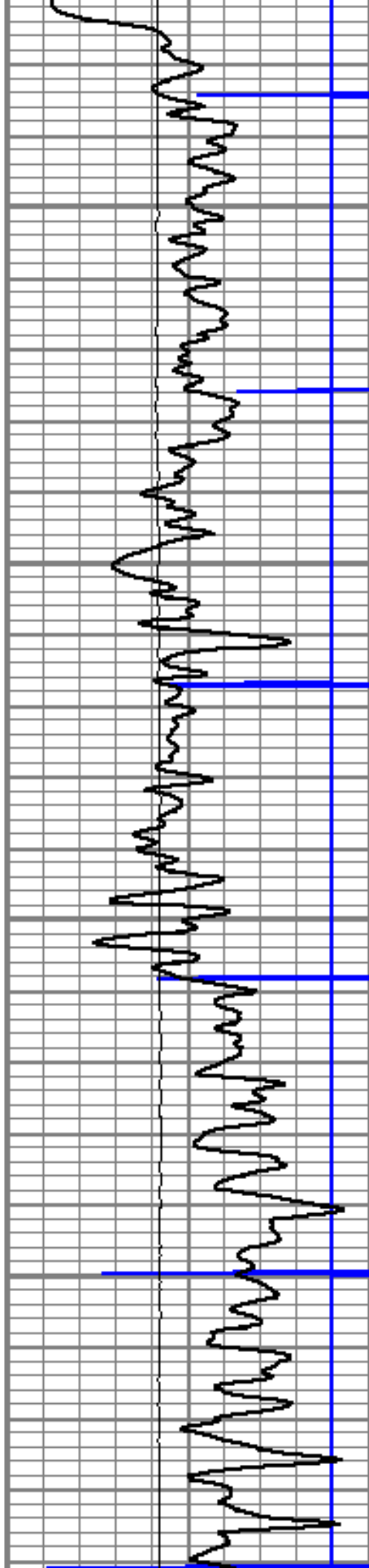
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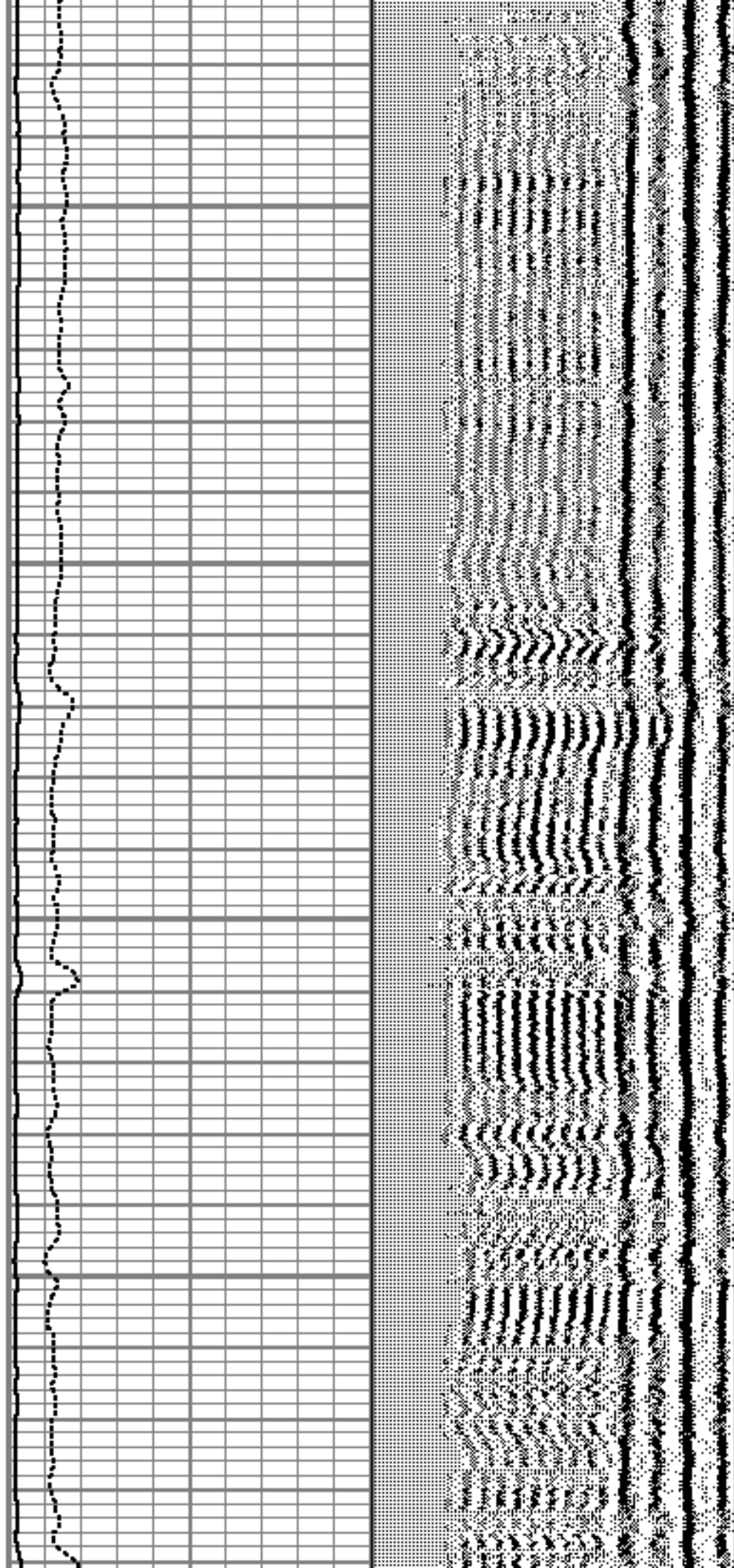


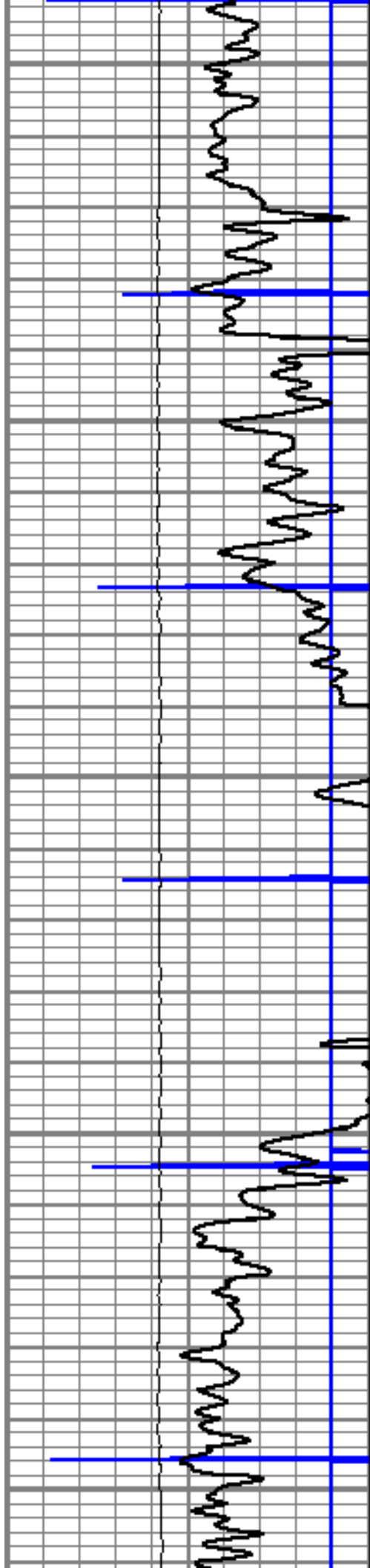
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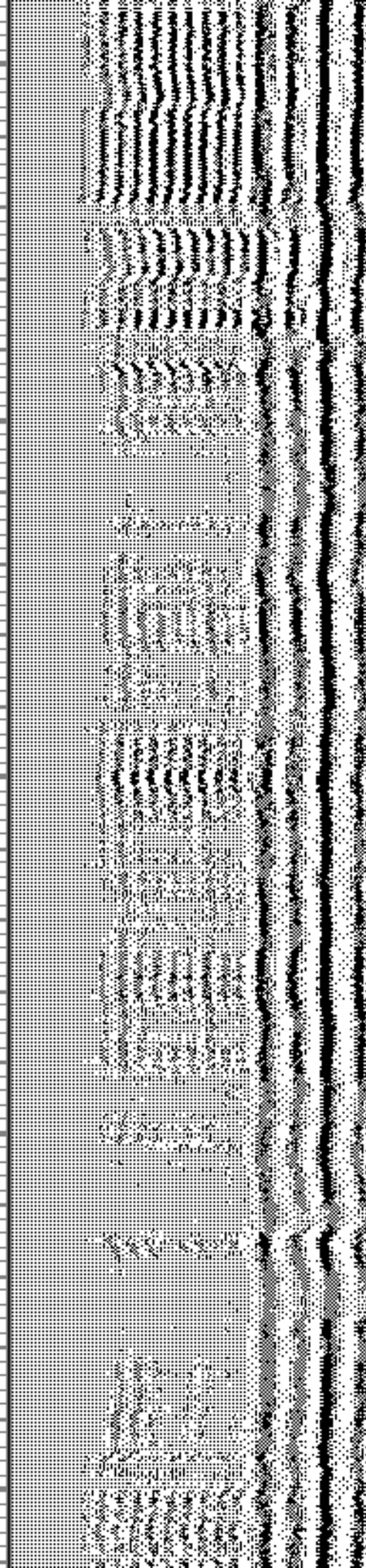
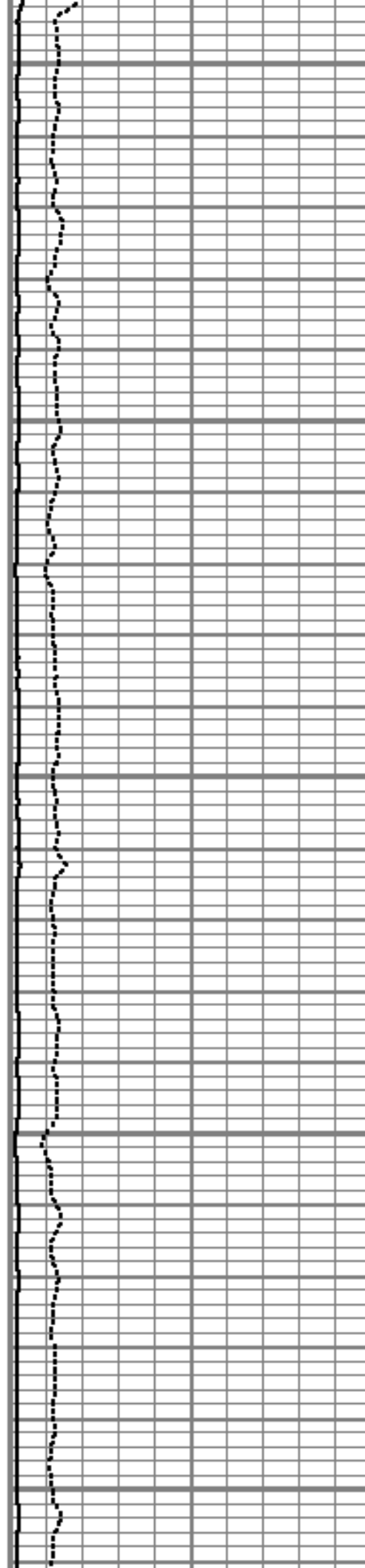
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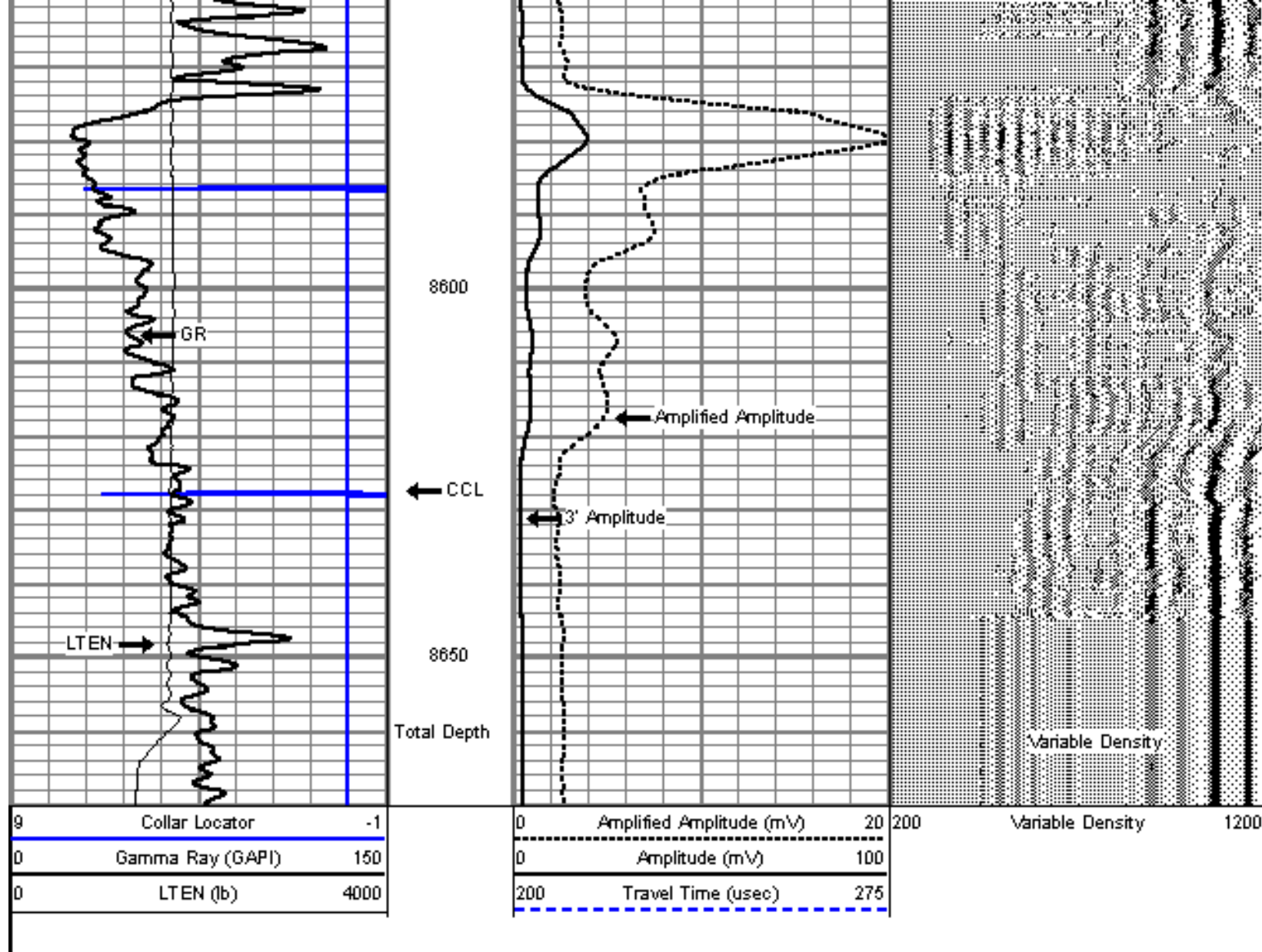
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8450

8500

8550





Company
Well
Field
County
State

ENCANA OIL & GAS (USA) INC.
COSTIGAN 34-20
WATTENBERG
WELD
COLORADO