



A Cased Hole Wireline Company

# Cement Bond Log

Gamma Ray  
CCL

Company Black Hills Production  
Well Homer Deep Unit 9-11 CH  
Field South Shale Ridge  
County Garfield  
State Colorado

Company Black Hills Production  
Well Homer Deep Unit 9-11 CH  
Field South Shale Ridge  
County Garfield State Colorado

## Location:

API #: 05-045-22489

Other Services

Phone

SEC: 9 TWP: 8S RGE: 96W

Permanent Datum

Log Measured From

K.E.

Ground Level

Elevation

5524'

Drilling Measured From

K.E.

Ground Level

Elevation

5524'

Elevation

K.B.  
D.F.  
G.L. 5524'

Date

21-Apr-2015

Run Number

One

Depth Driller

6570'

Depth Logger

6570'

Bottom Logged Interval

6570'

Top Log Interval

90'

Open Hole Size

NA

Type Fluid

Water

Density / Viscosity

8.33

Max. Recorded Temp.

NA

Estimated Cement Top

SEE LOG

Time Well Ready

8:00 AM

Time Logger on Bottom

9:15AM

Equipment Number

58

Location

Grand Junction

Recorded By

J. Tooker

Witnessed By

P. Hoff

Run Number

Bit

From

To

Size

Weight

From

To

Casing Record

Size

Wgt/Ft

Top

Bottom

Surface String

Prot. String

Production String

Liner

<<< Fold Here >>>

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 Correlated To Cutters Wireline Cement Bond Log 19-Dec-2014



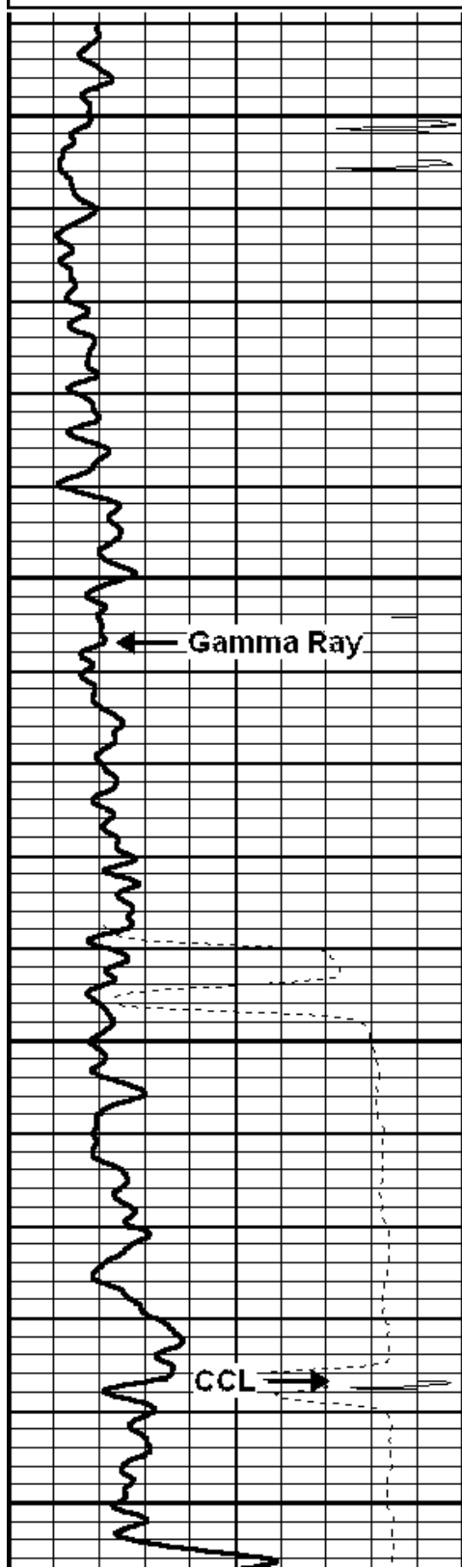
# Main Pass 0 psi

Database File: black\_hills\_cbl\_4-21-2015.db  
 Dataset Pathname: pass9  
 Presentation Format: cbl\_dr  
 Dataset Creation: Tue Apr 21 10:18:01 2015 by Log Std Casedhole 08121  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
9	CCL	-1
400	Travel Time (usec)	300

0	Amplified Amplitude (mV)	20
0	Amplitude (mV)	100

200 Variable Density 1200

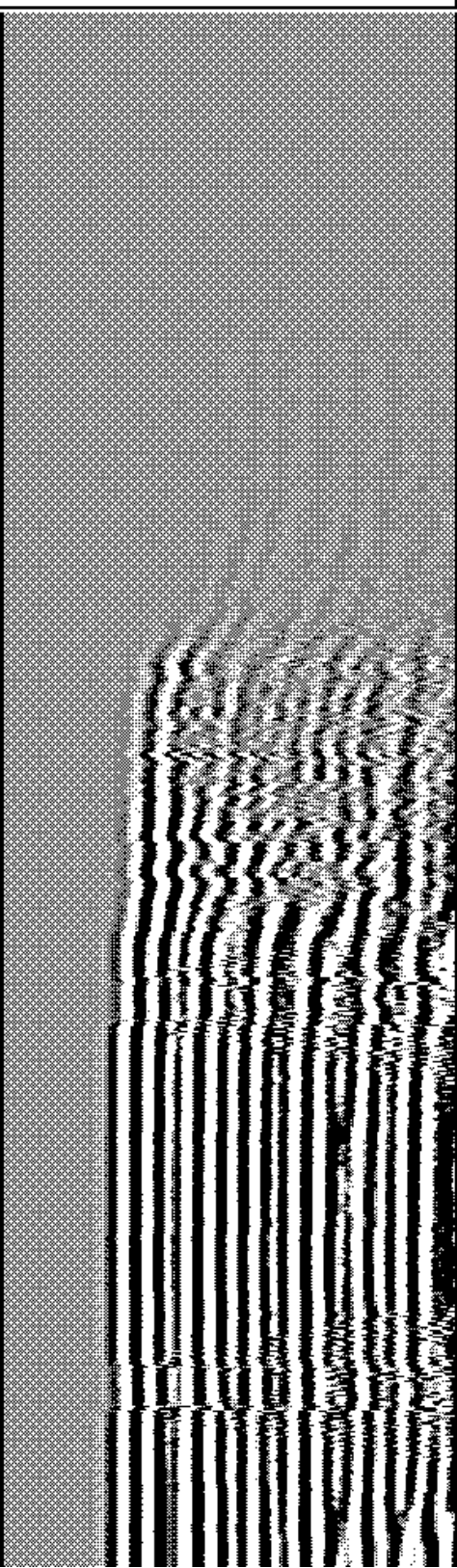
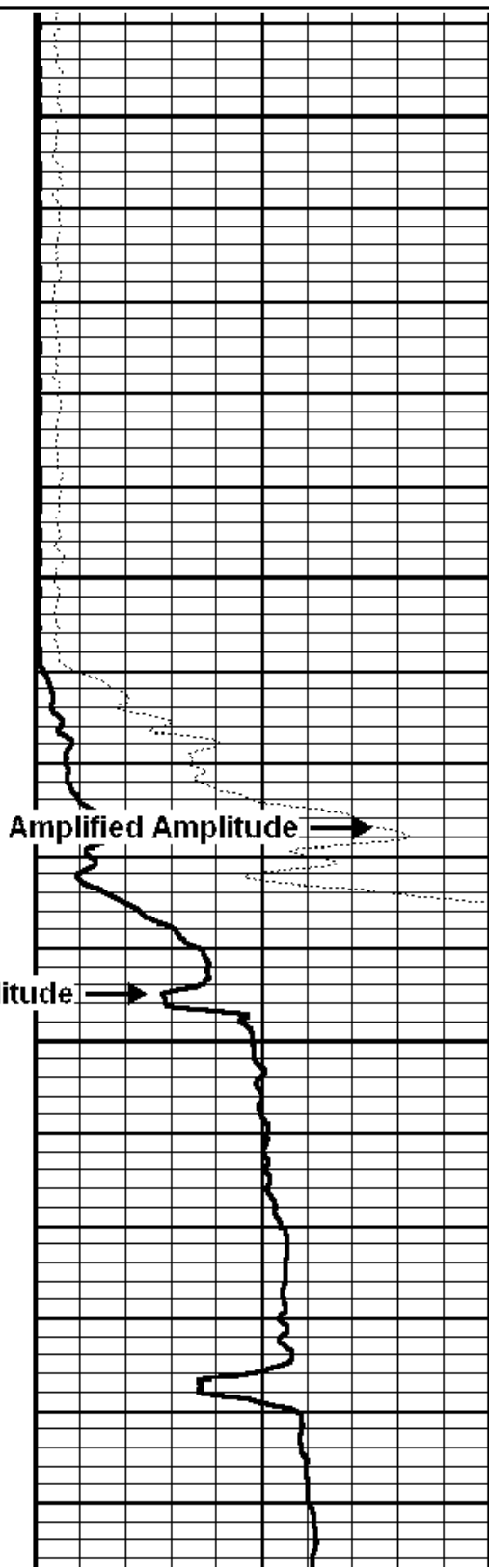


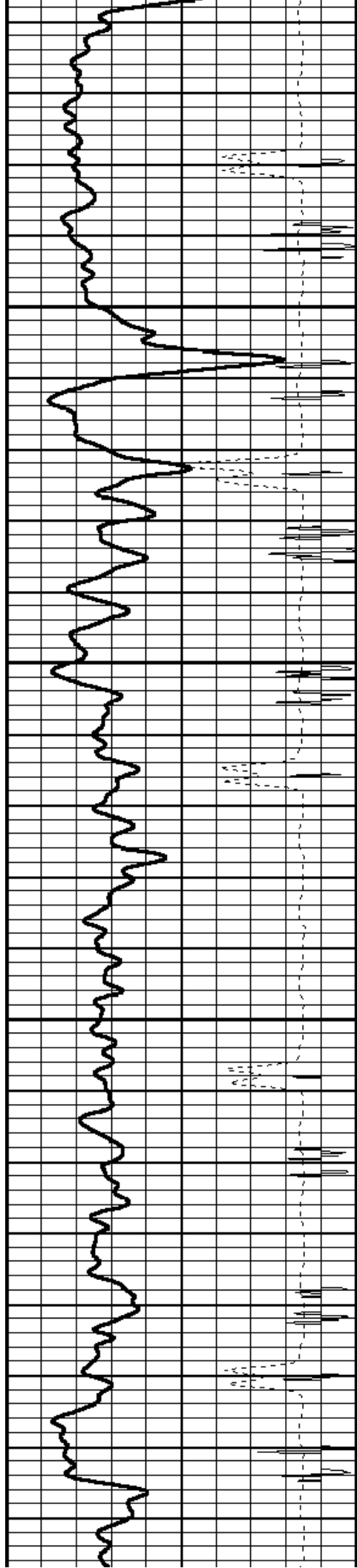
100

150

200

250



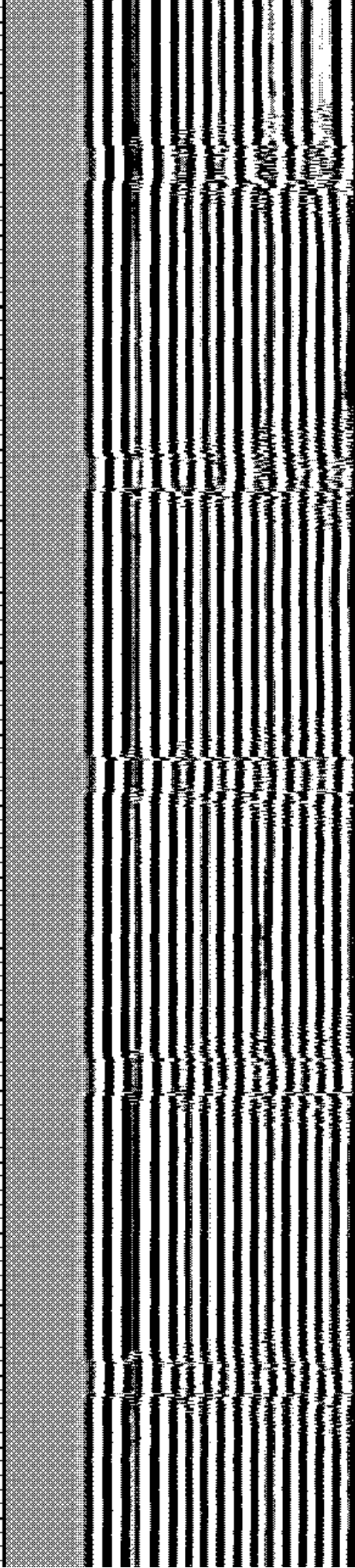
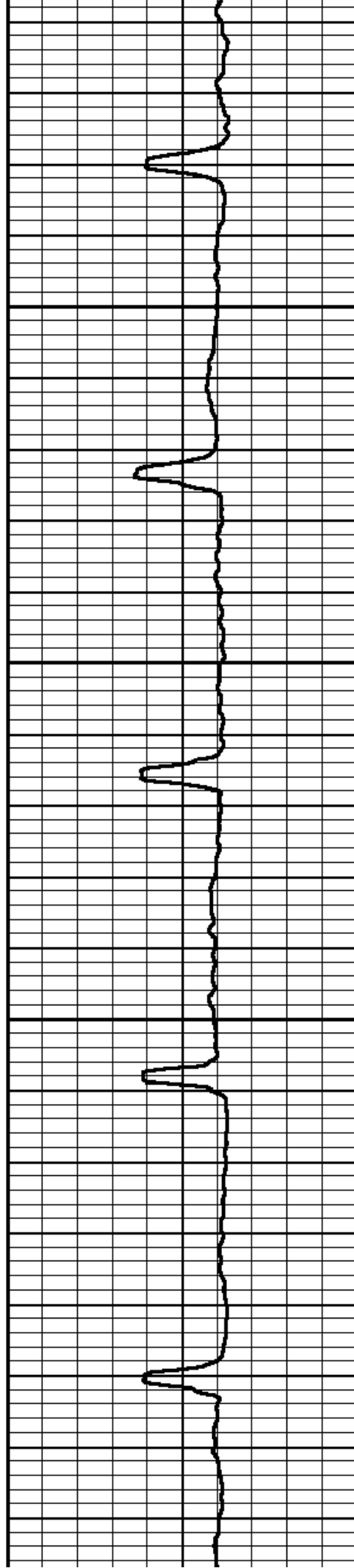


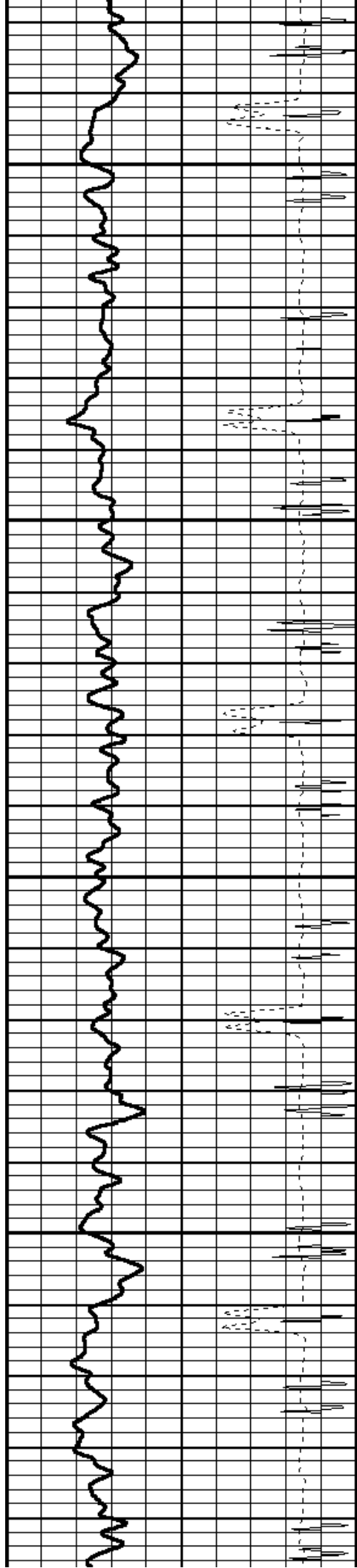
300

350

400

450



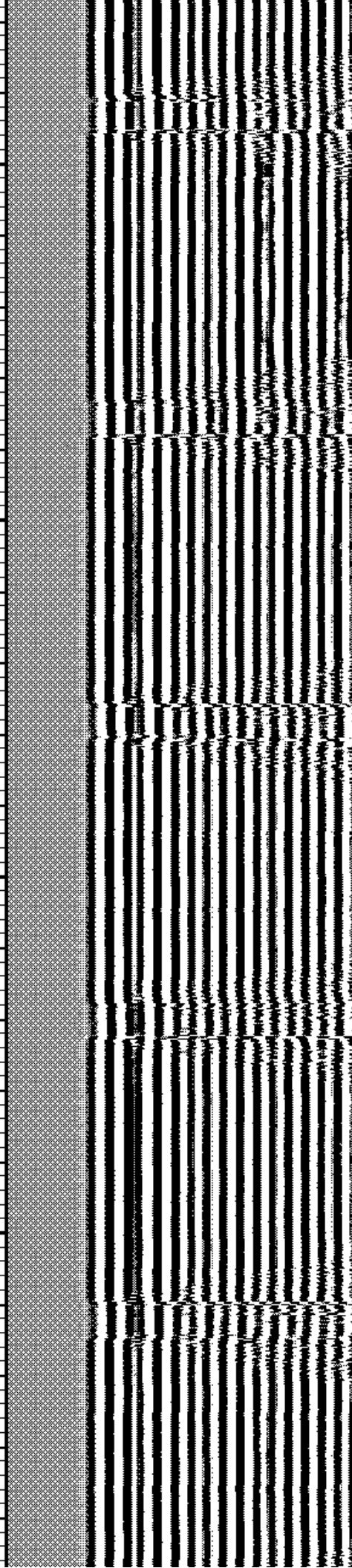
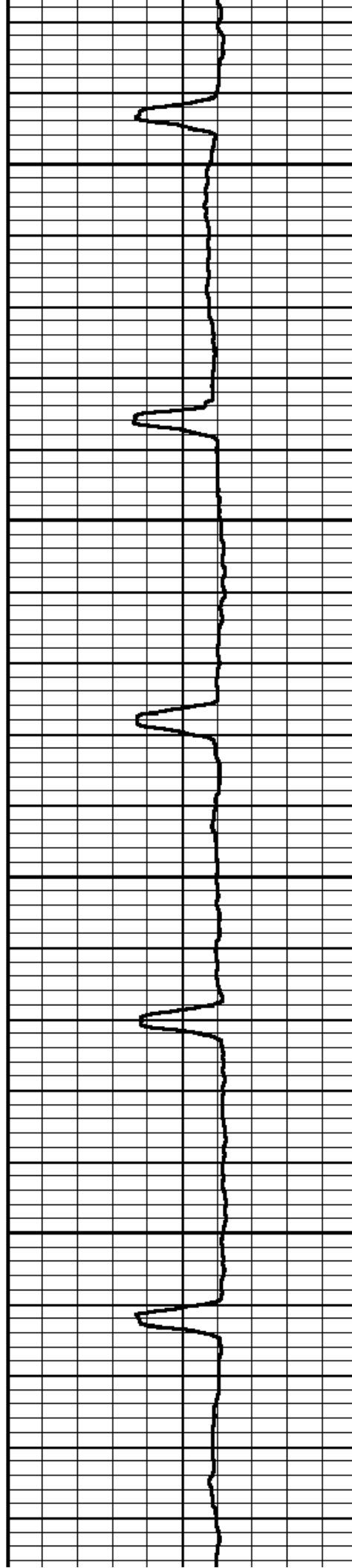


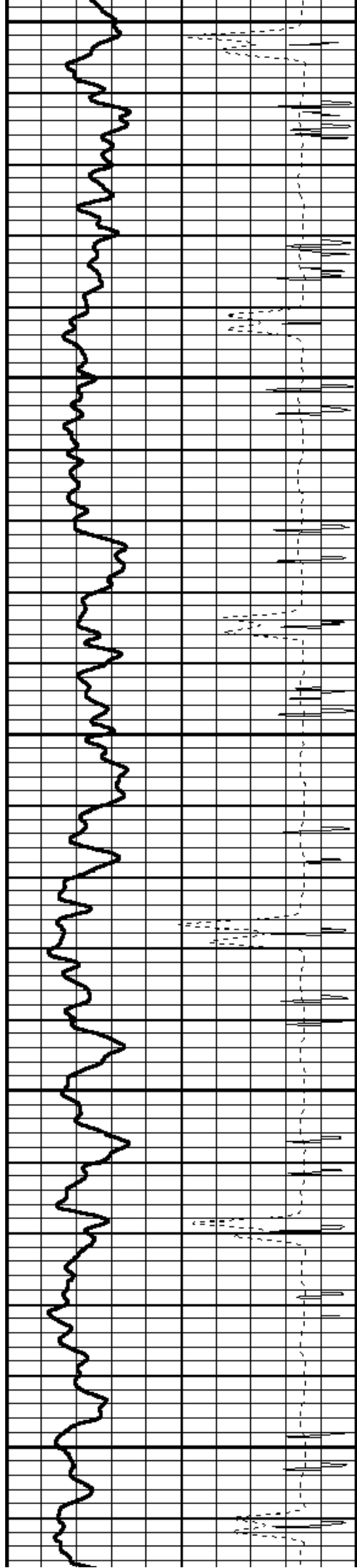
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550

600

650





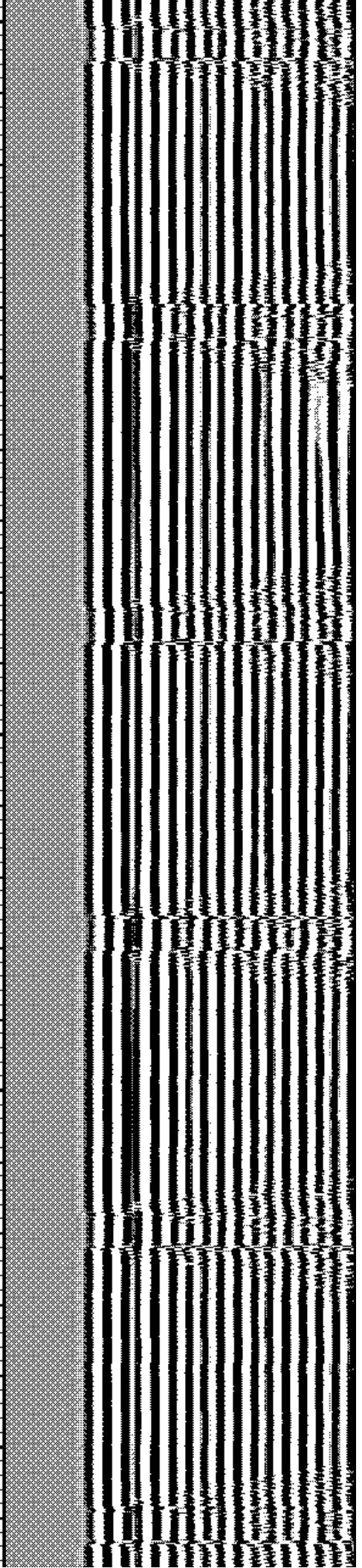
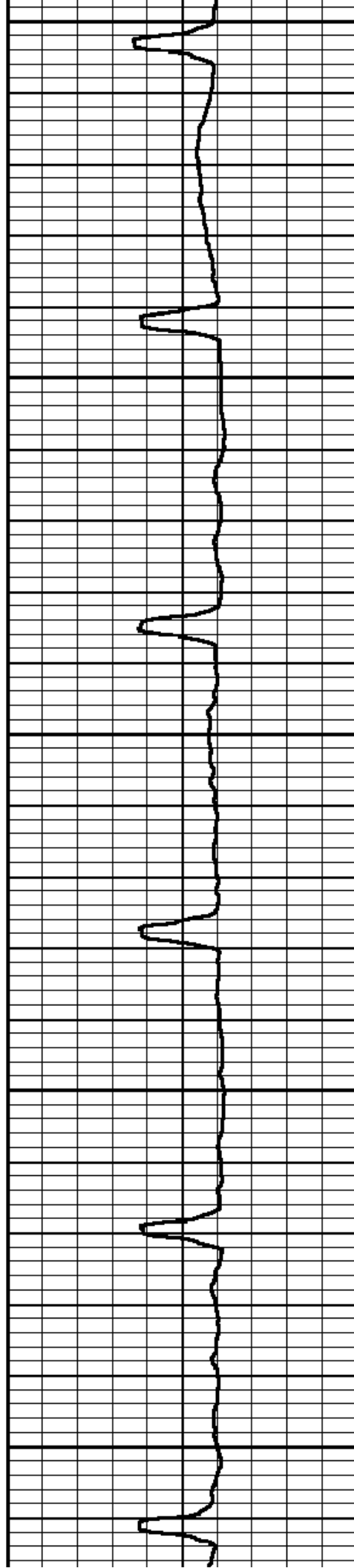
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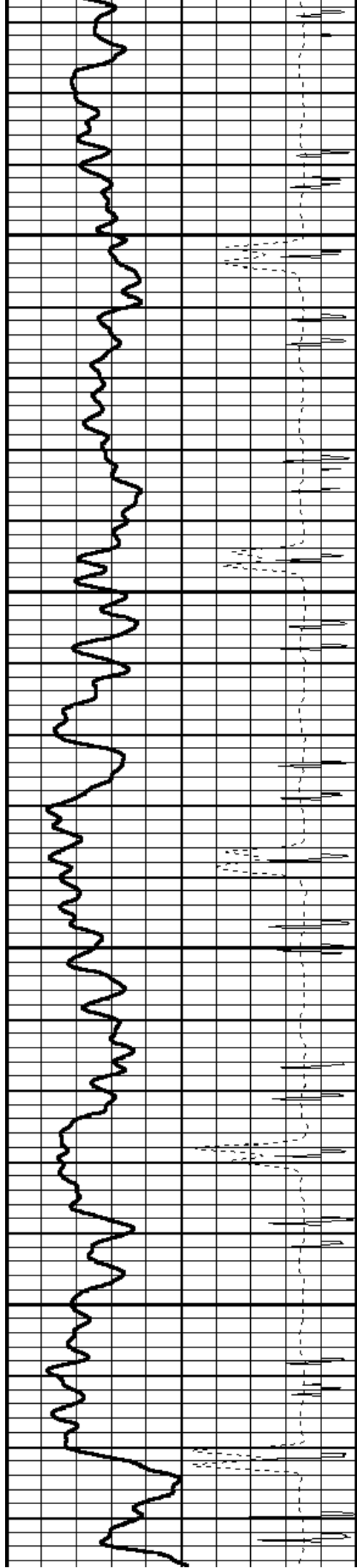
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800

850

900



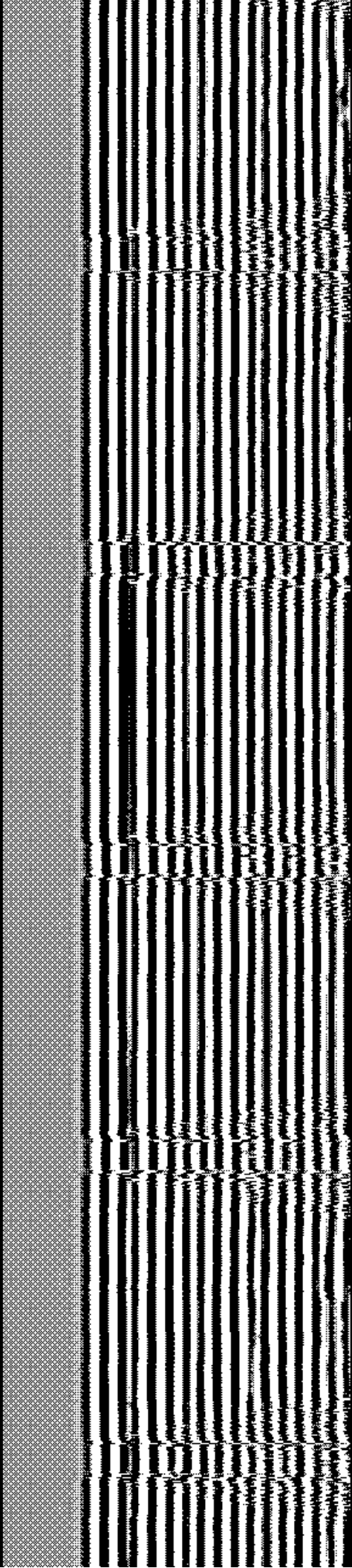
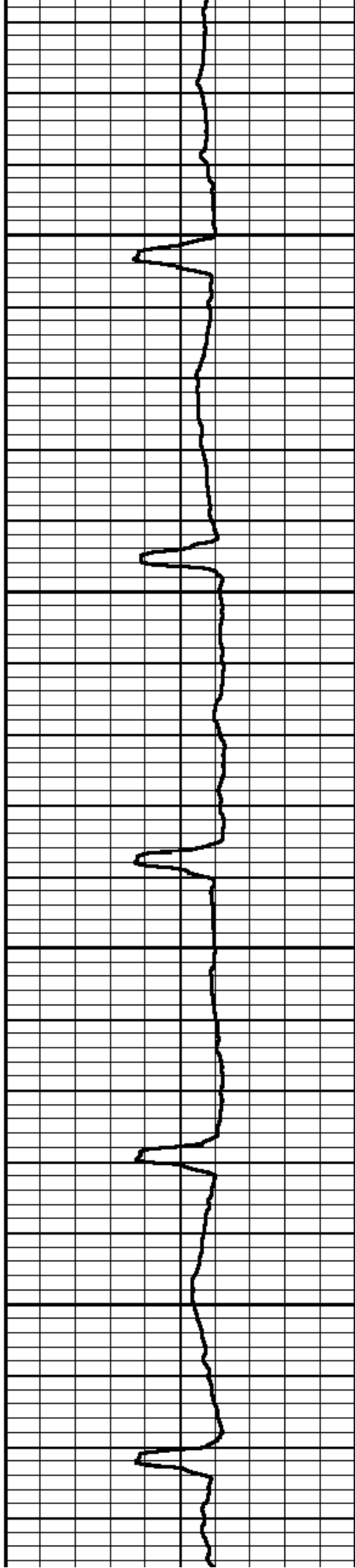


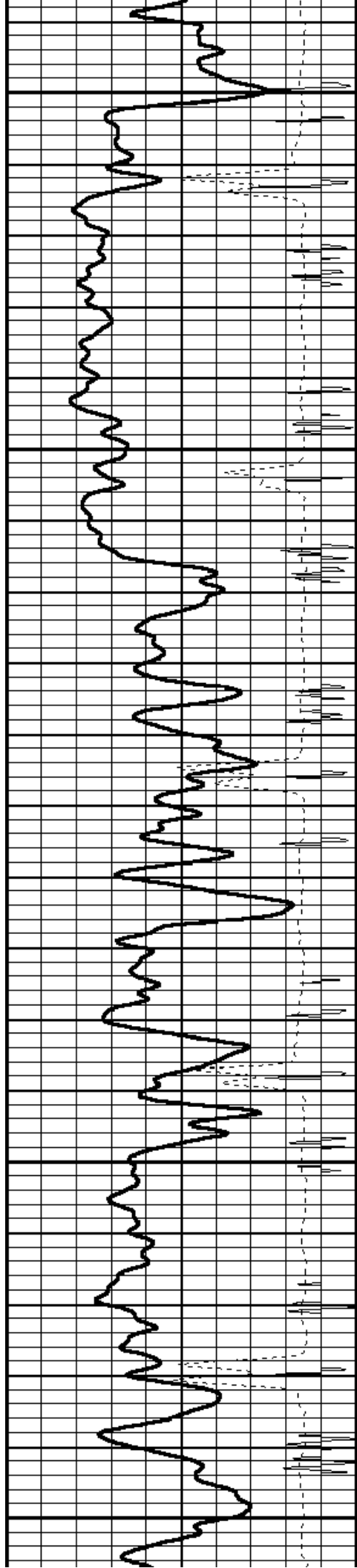
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1000

1050

1100





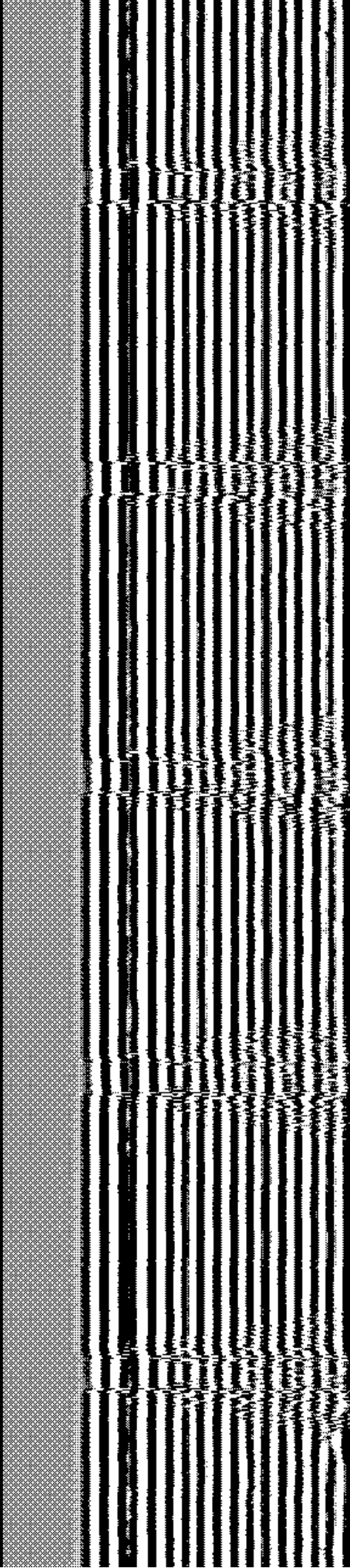
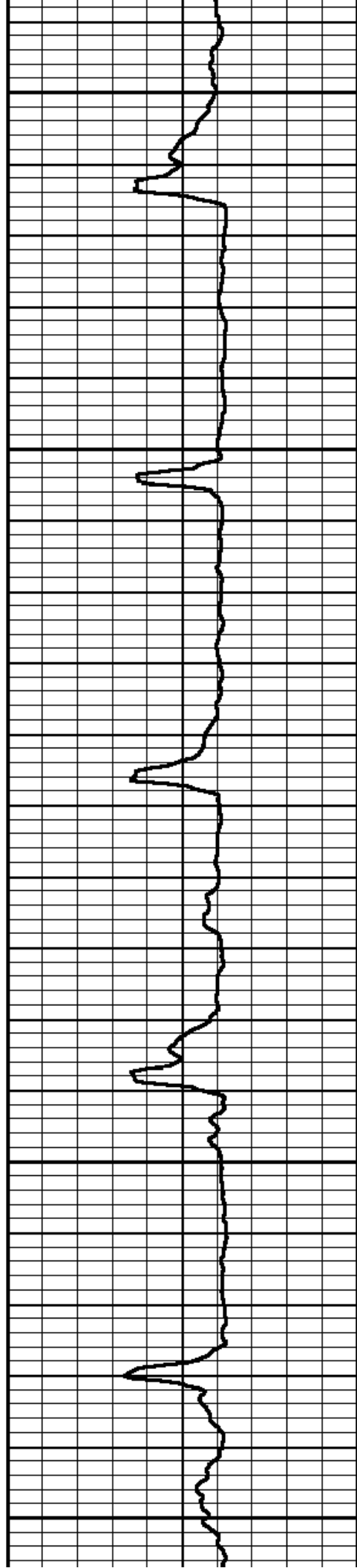
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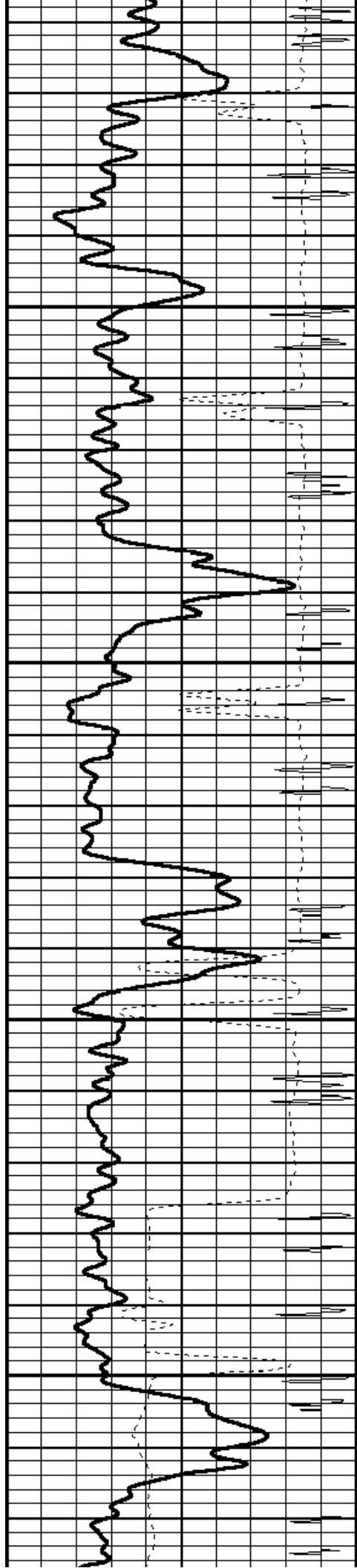
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1300

1350





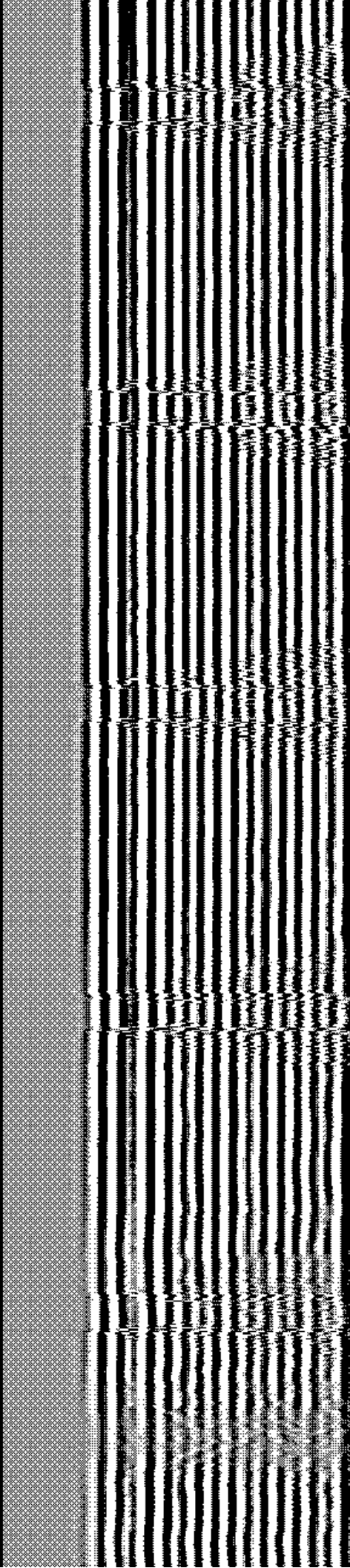
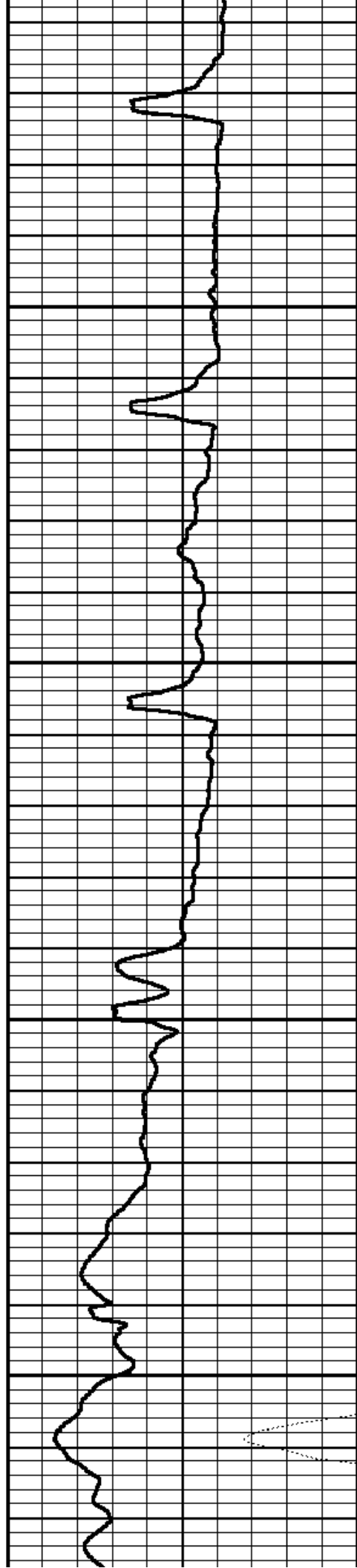


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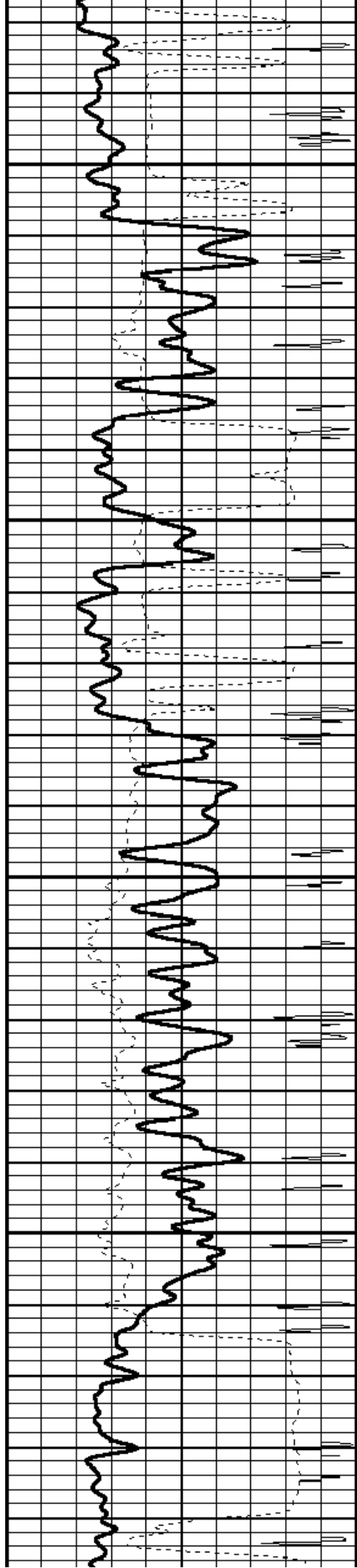
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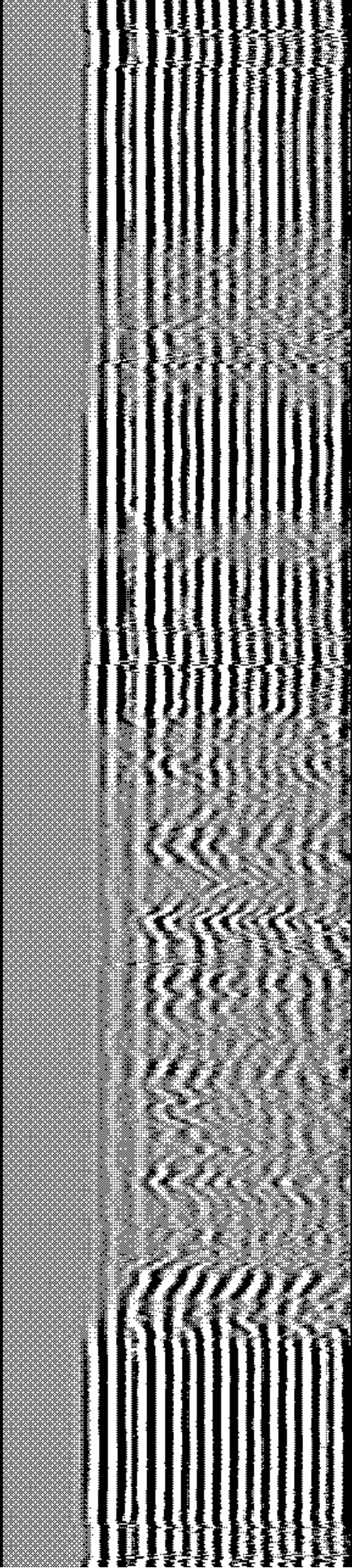
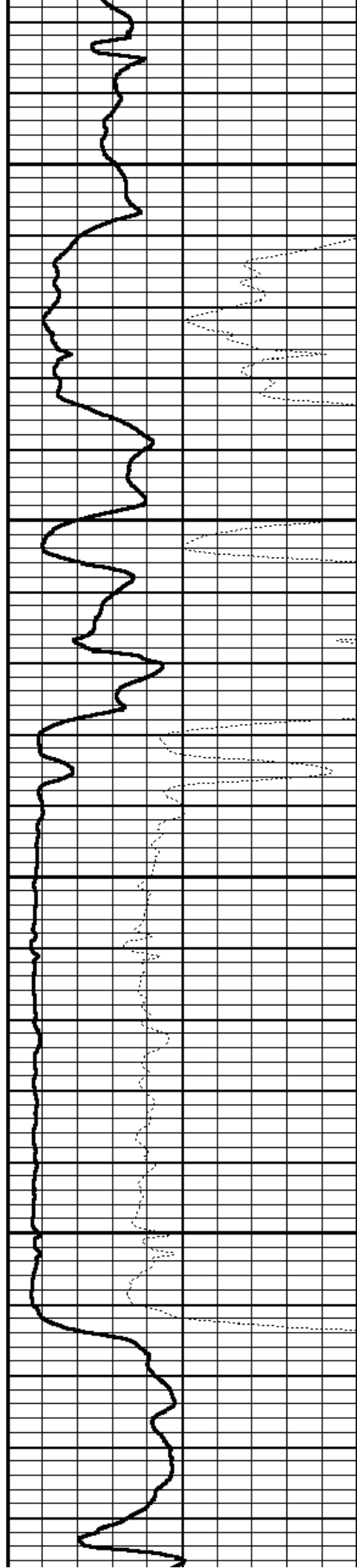


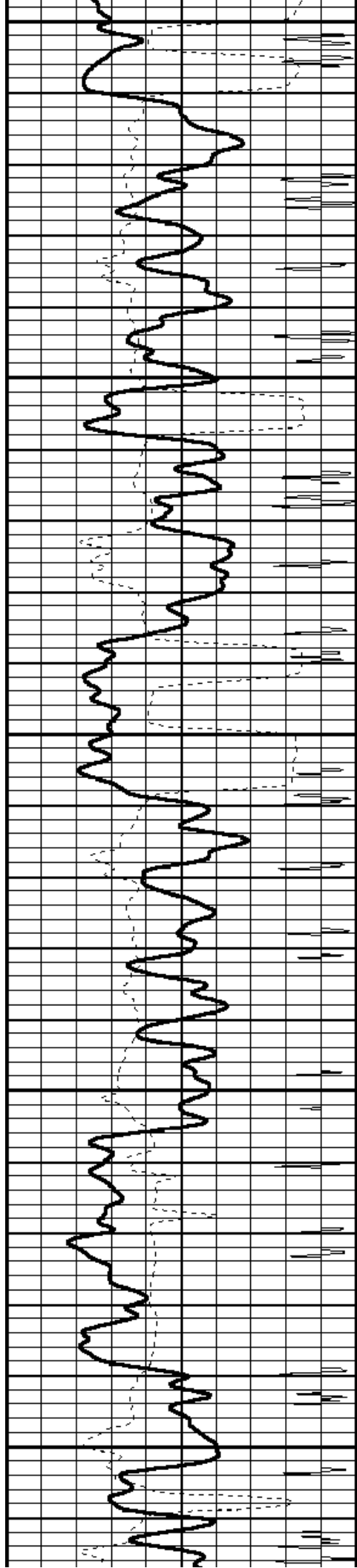
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1650

1700

1750





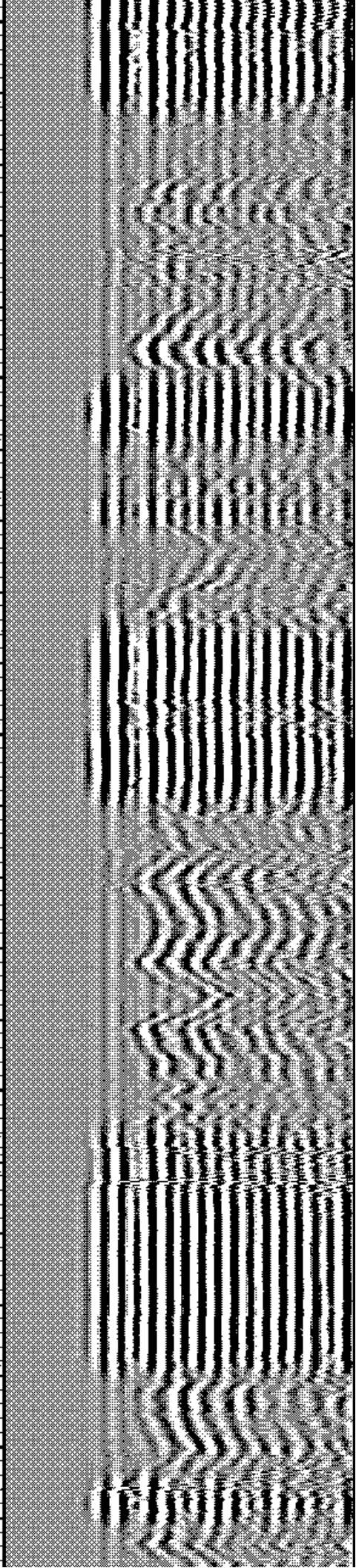
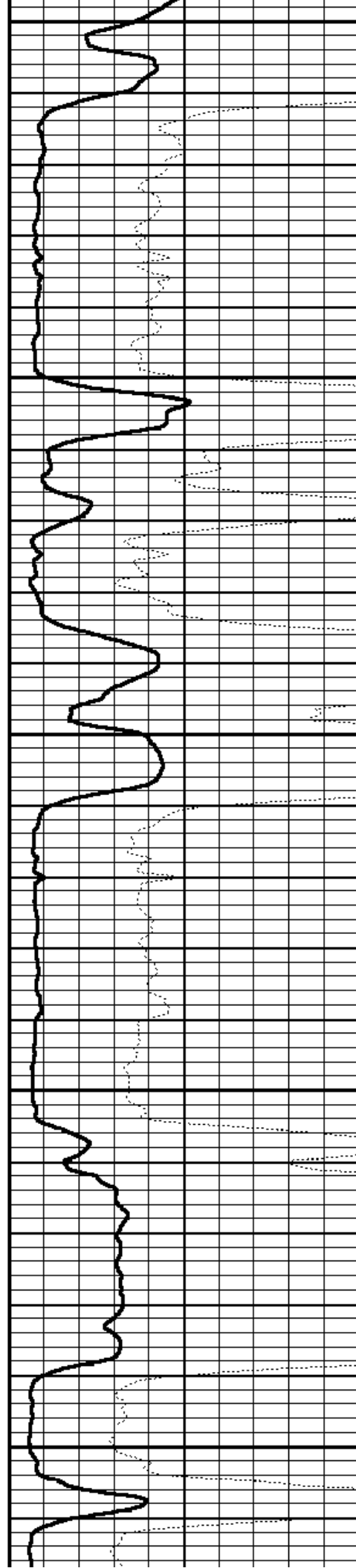
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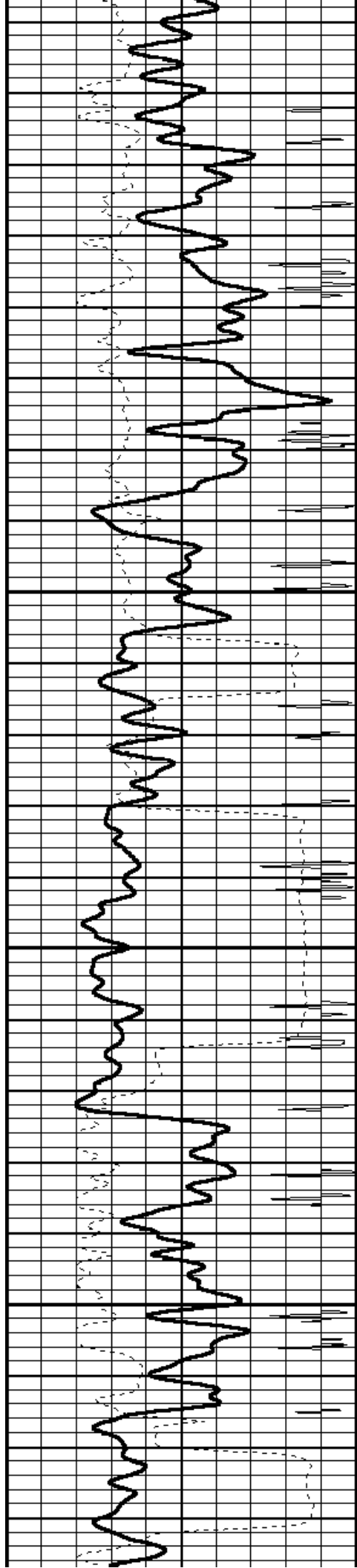
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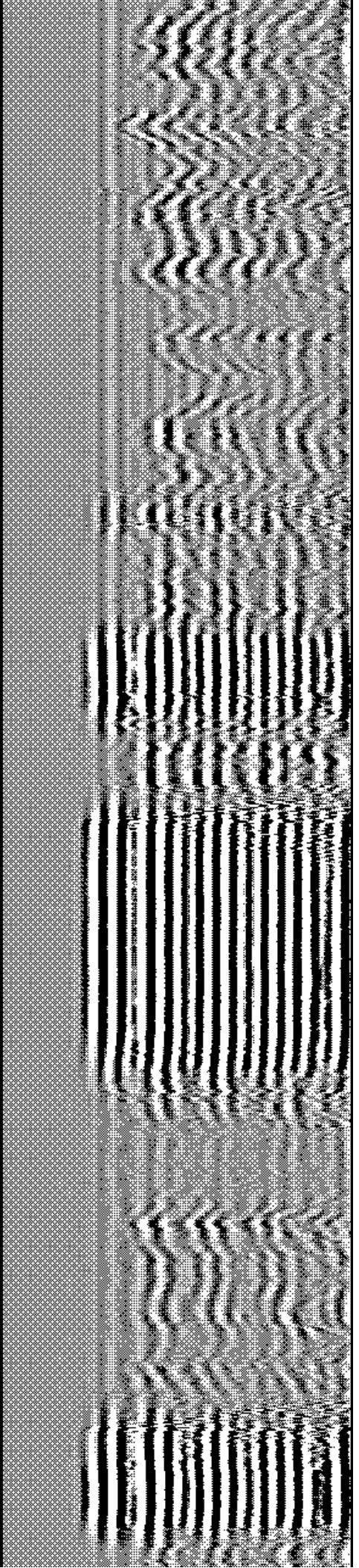
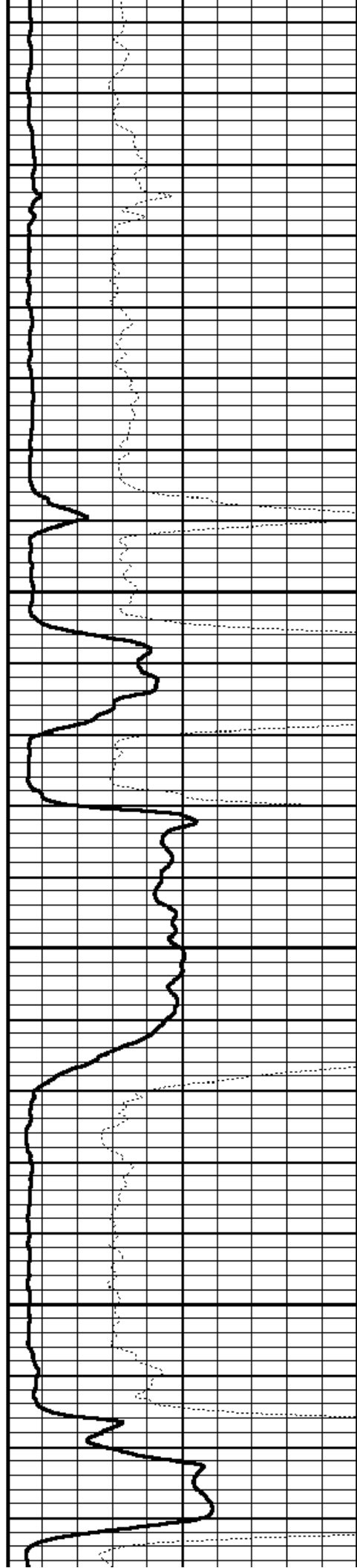


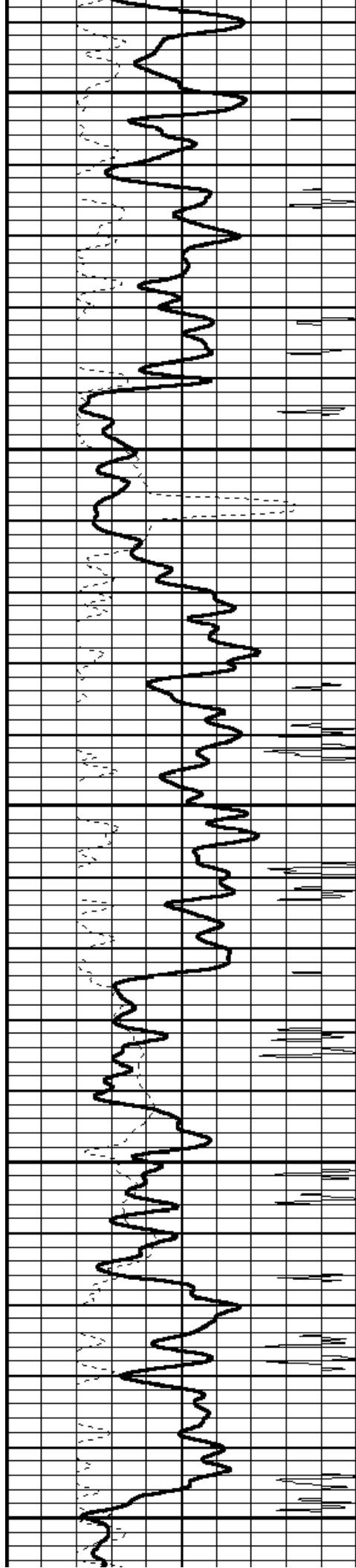
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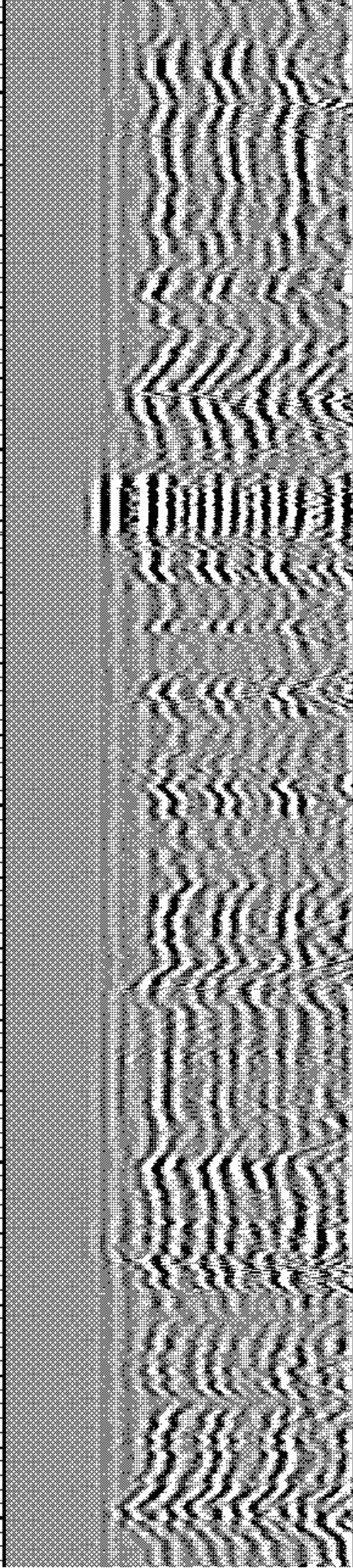
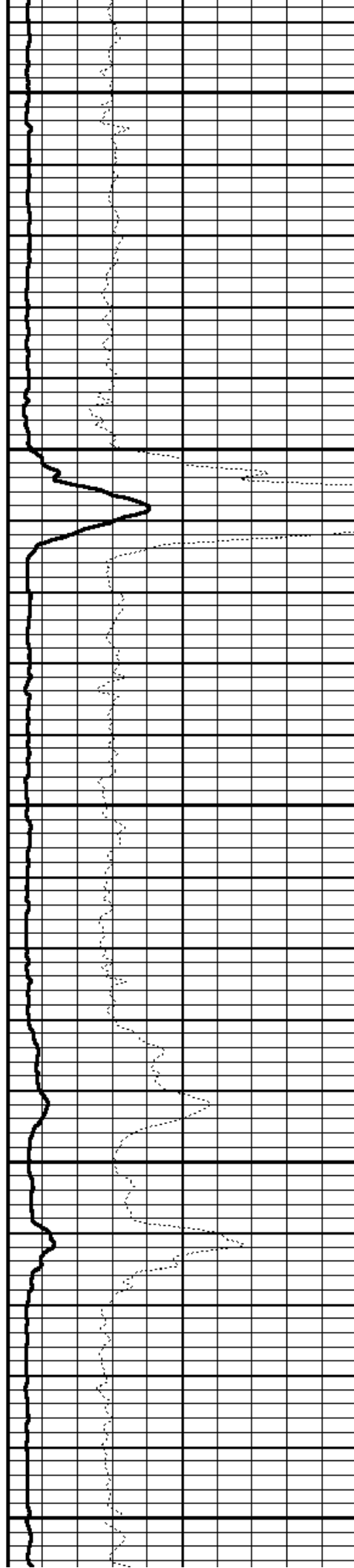
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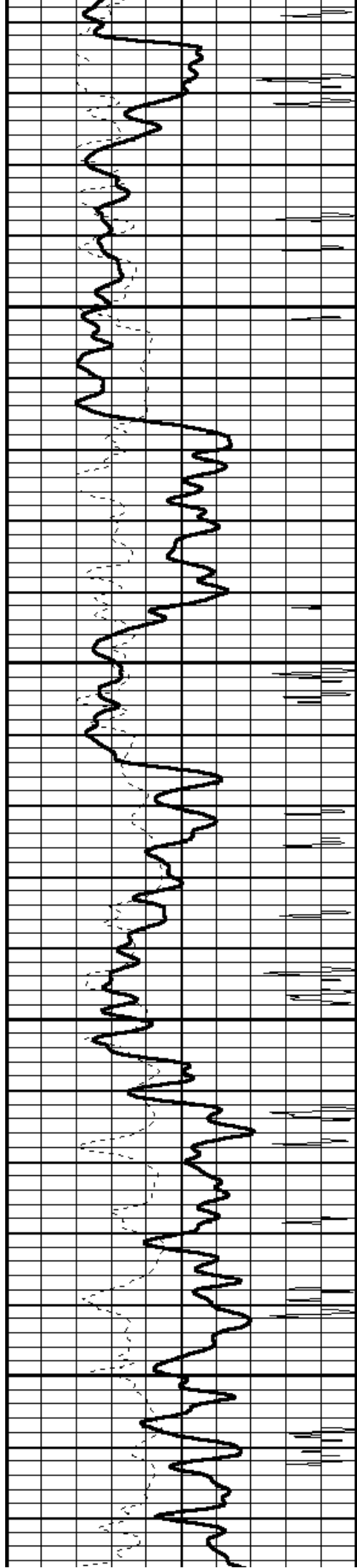
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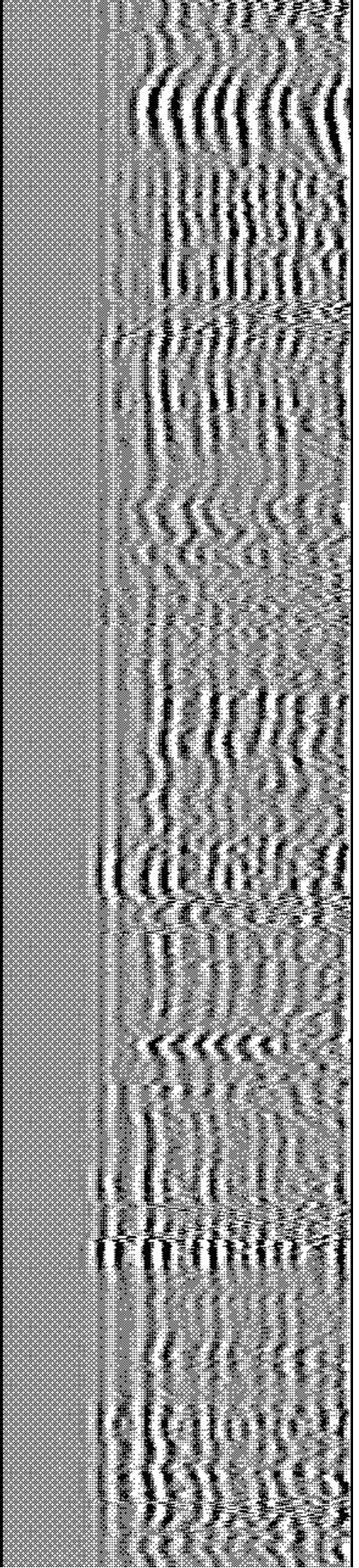
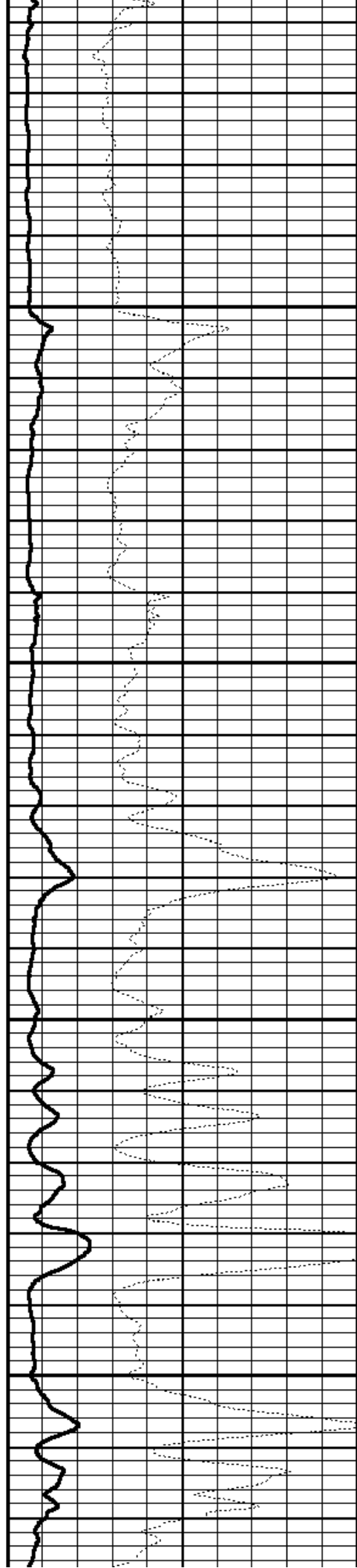


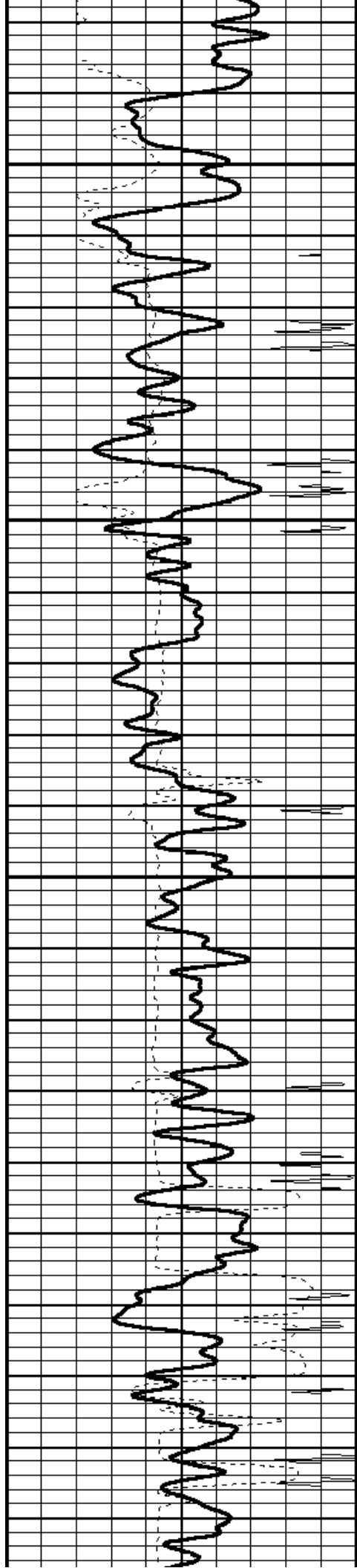
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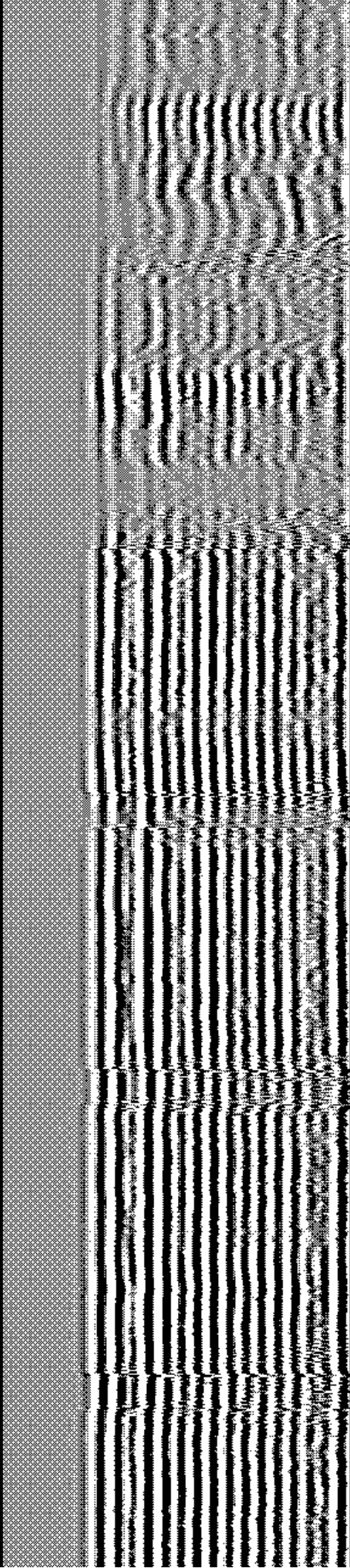
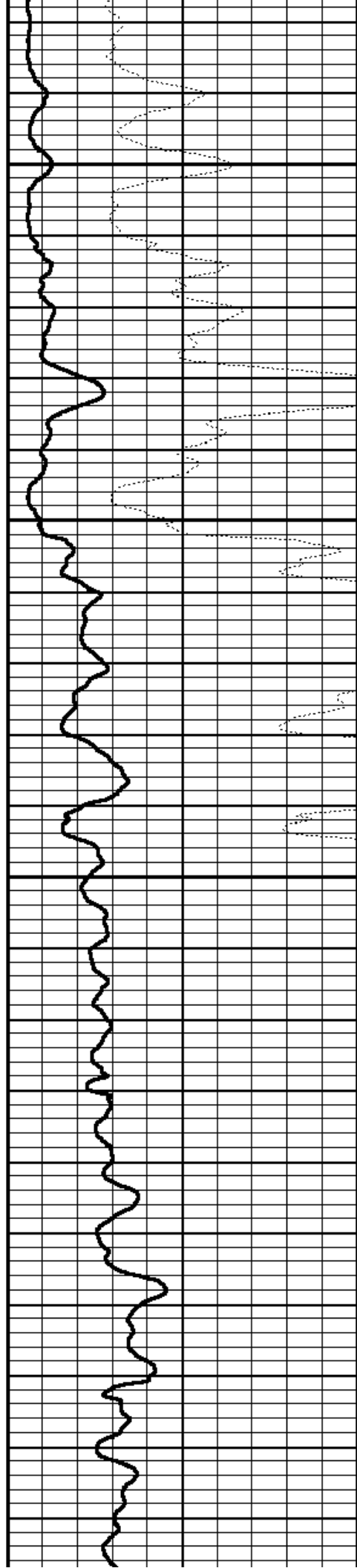


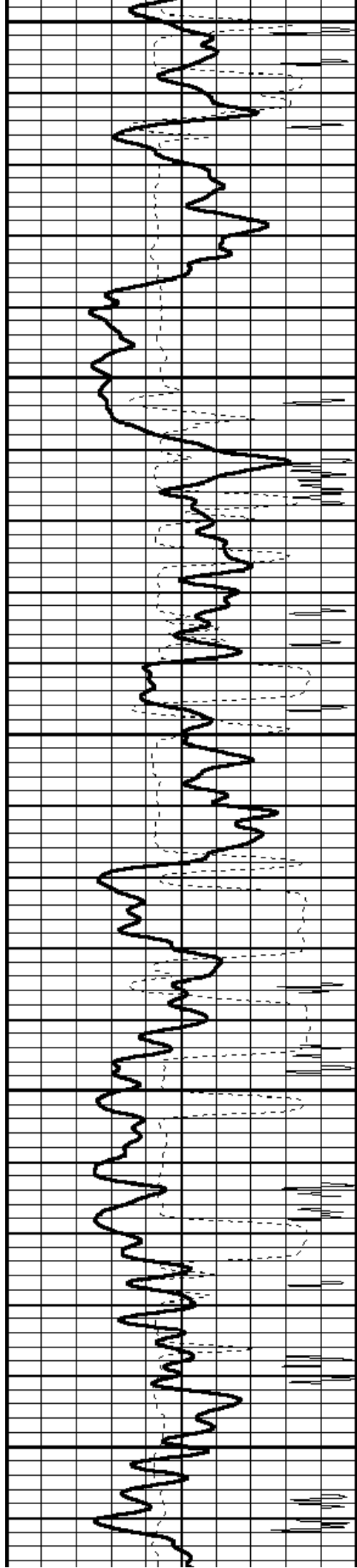
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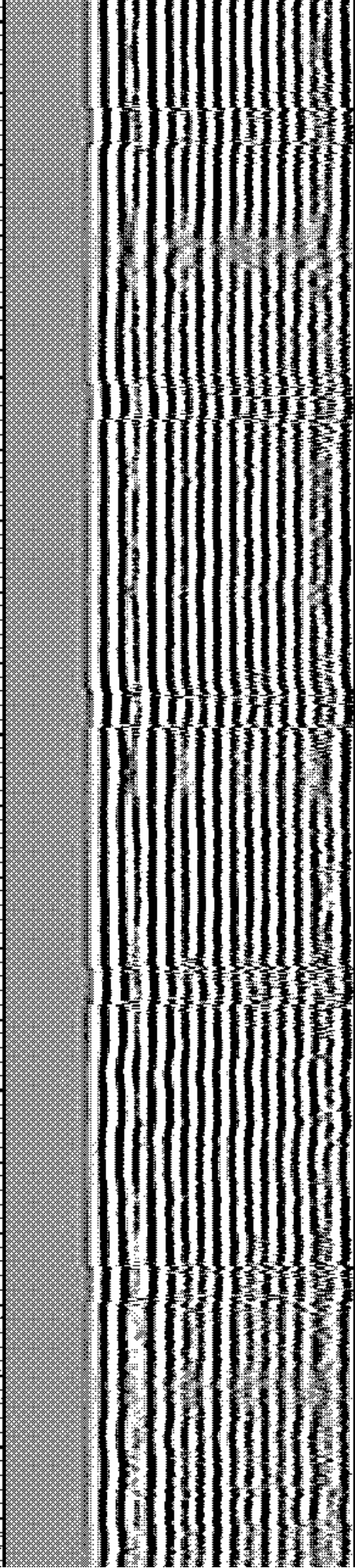
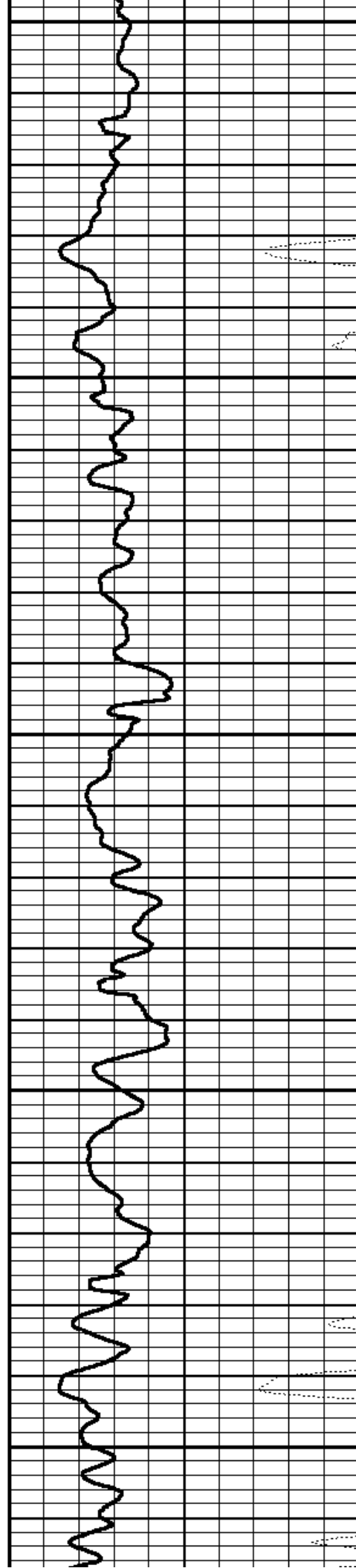
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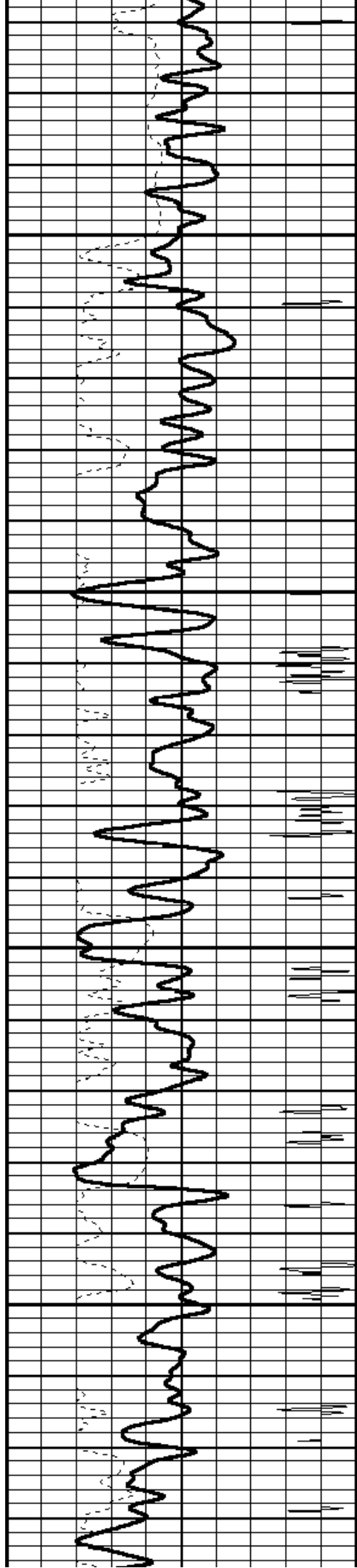
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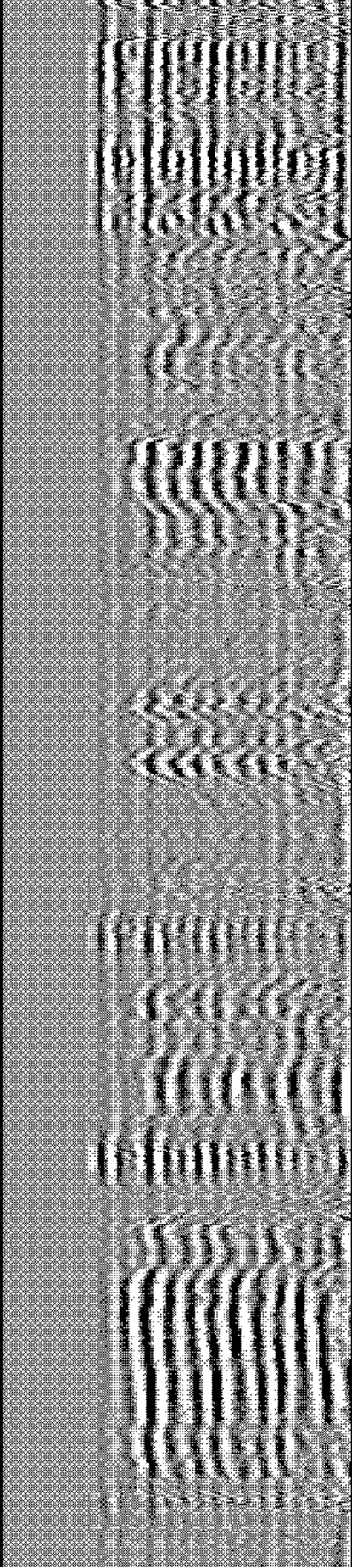
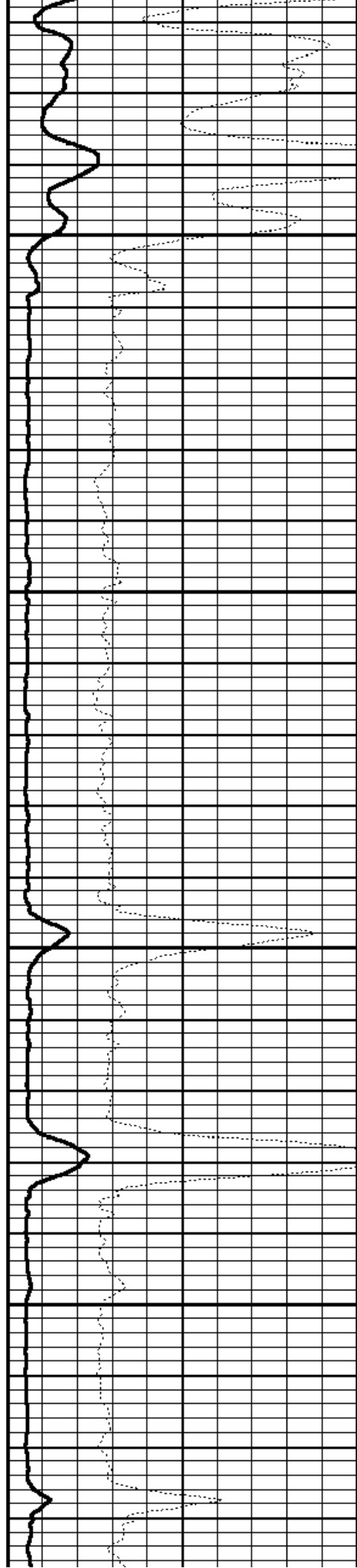


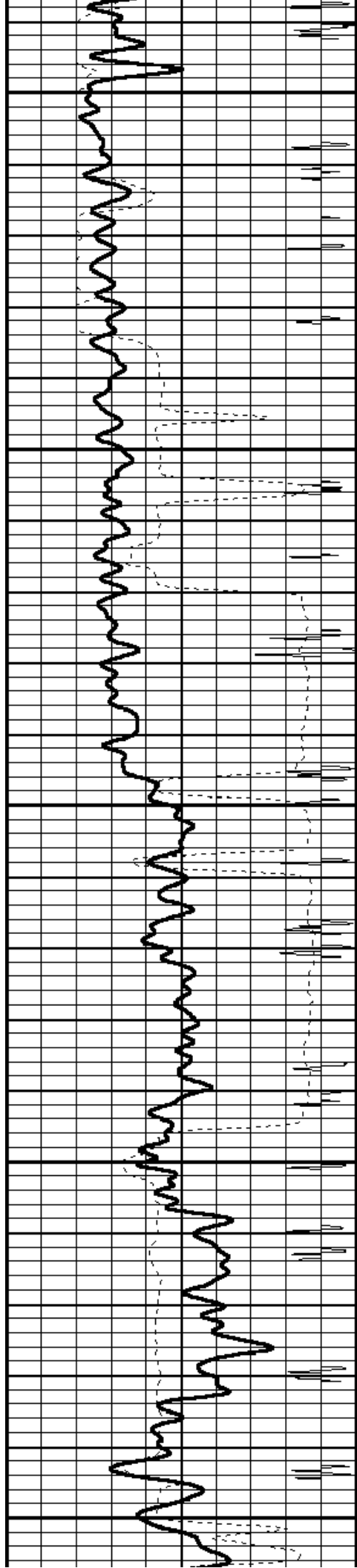
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3300





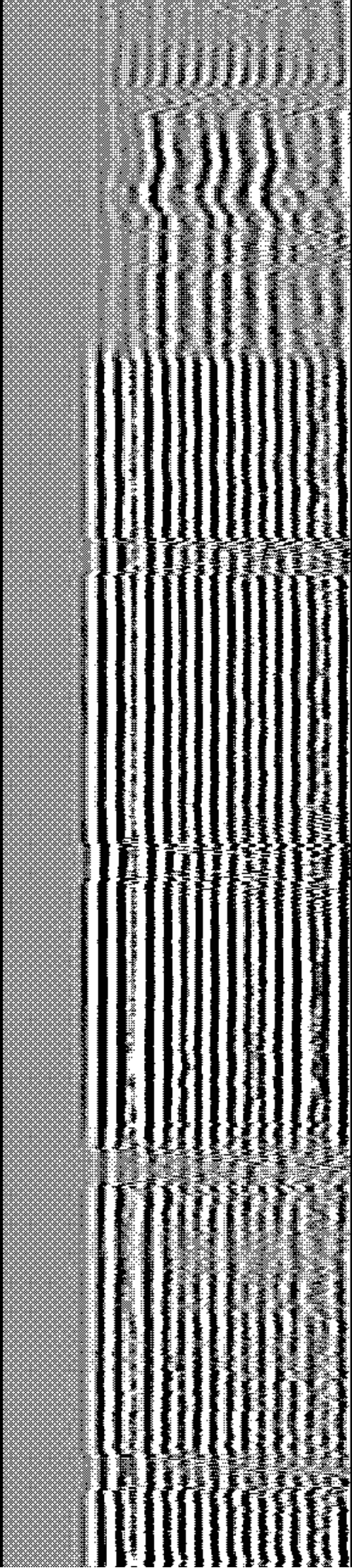
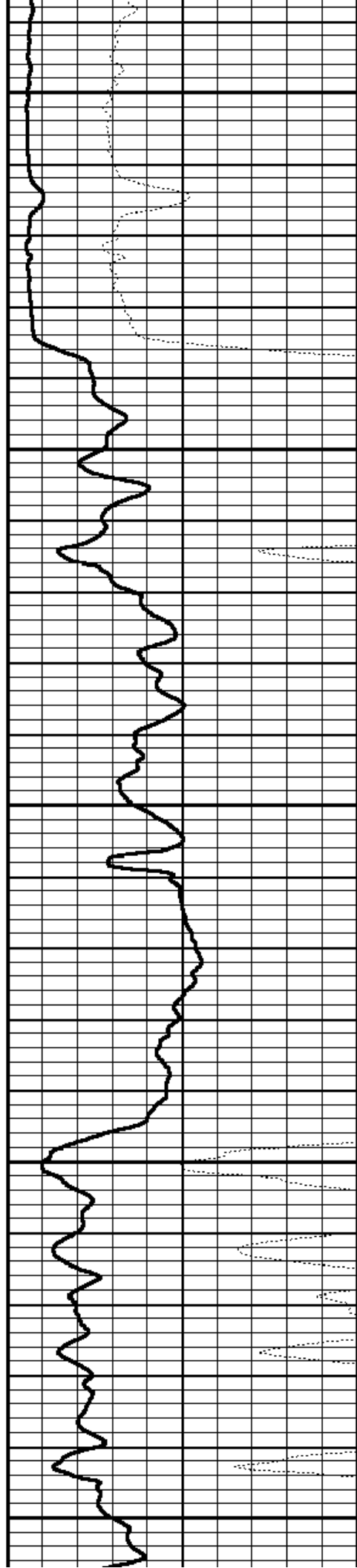
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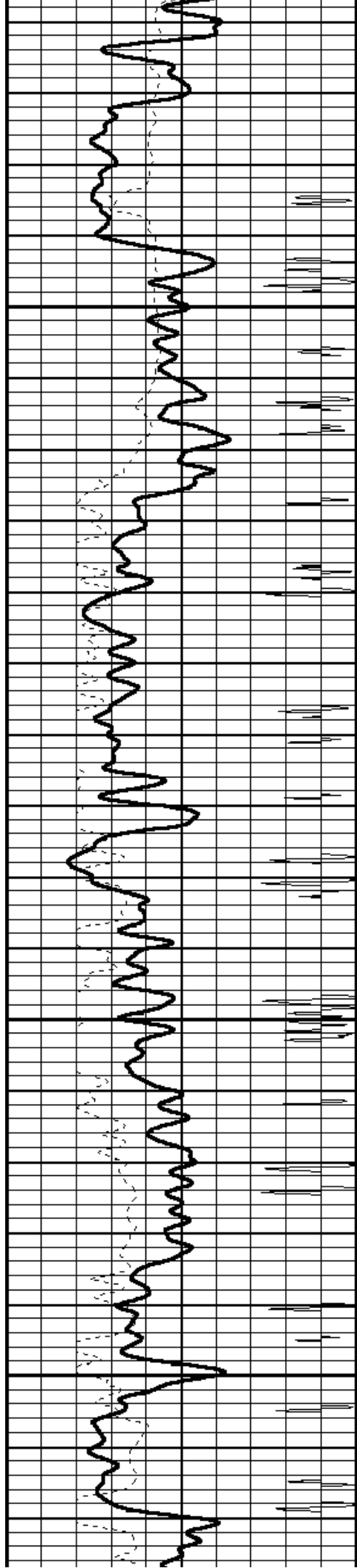
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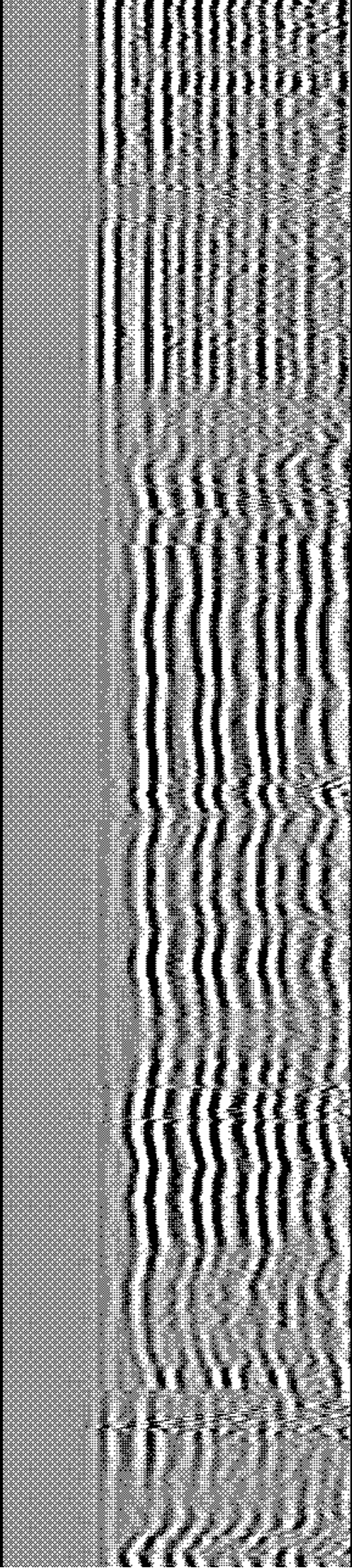
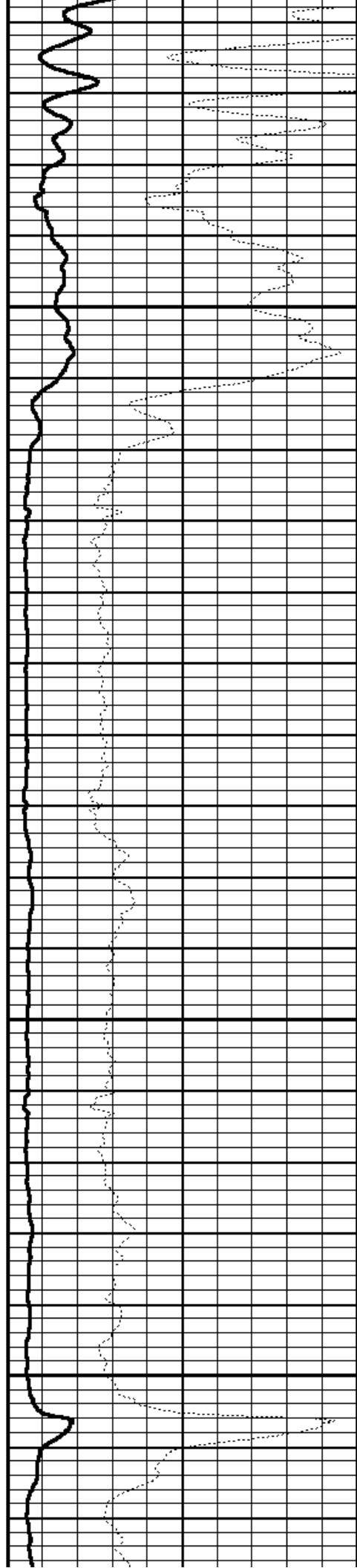


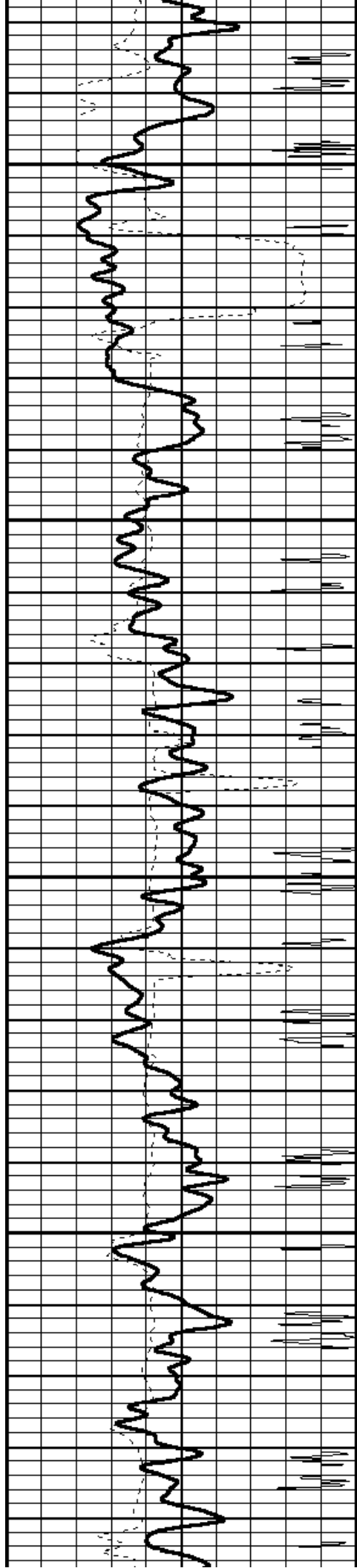
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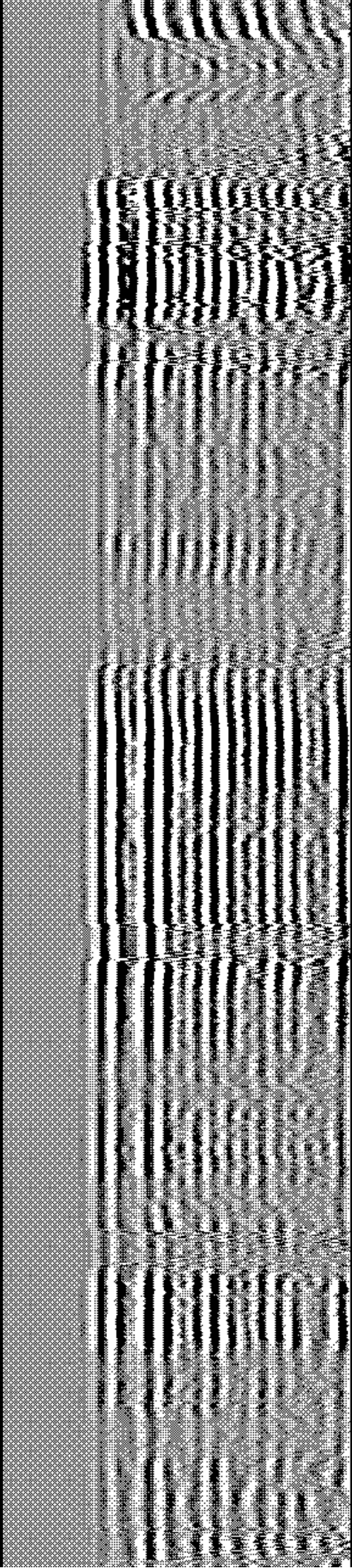
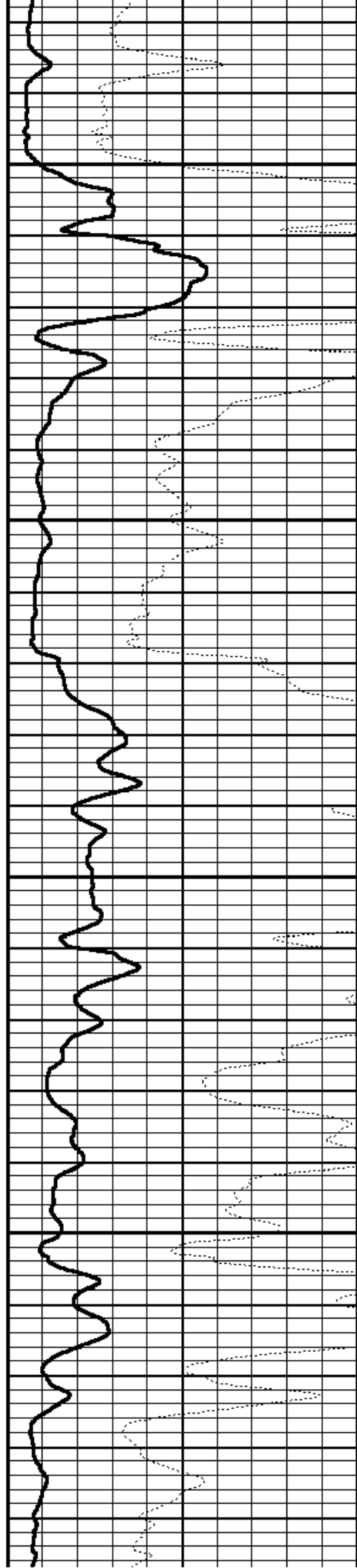


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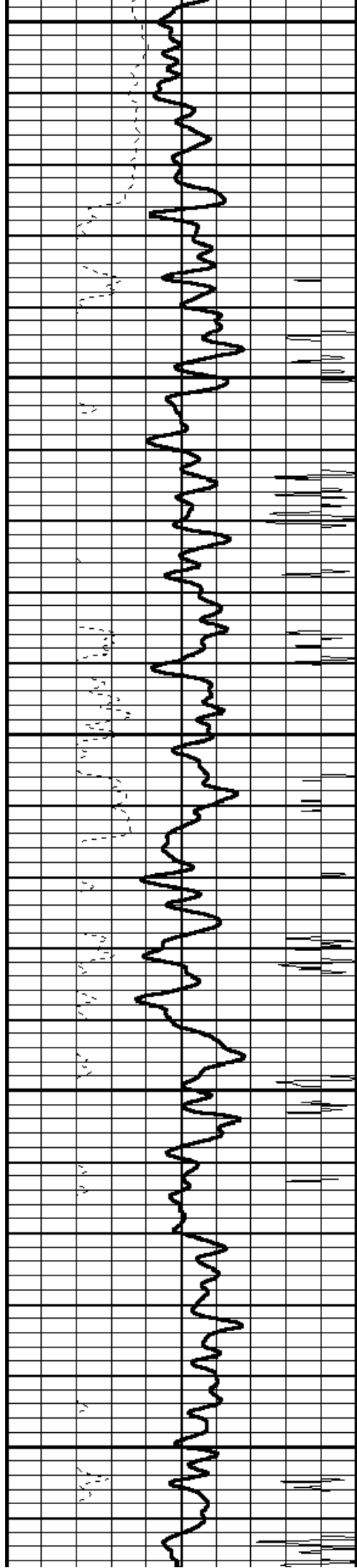
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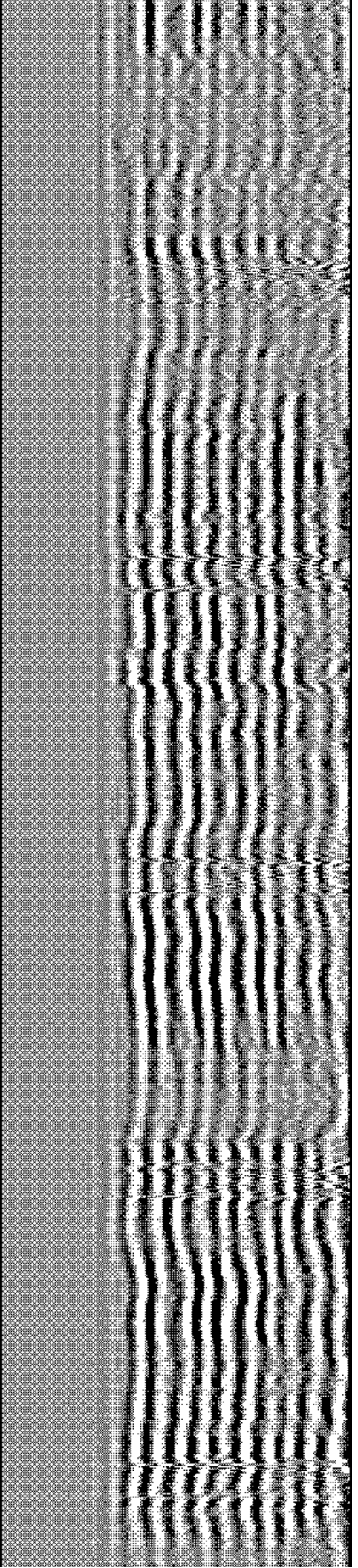
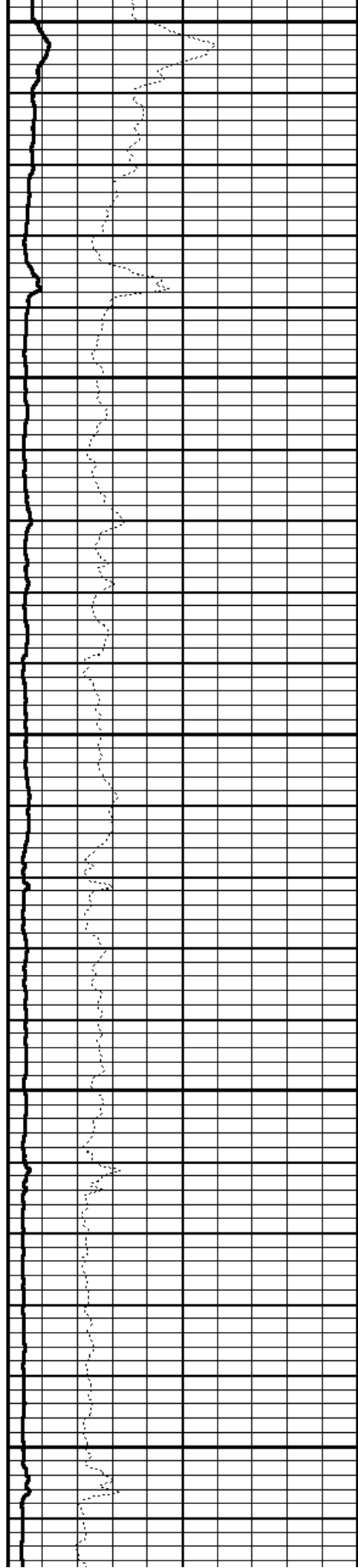
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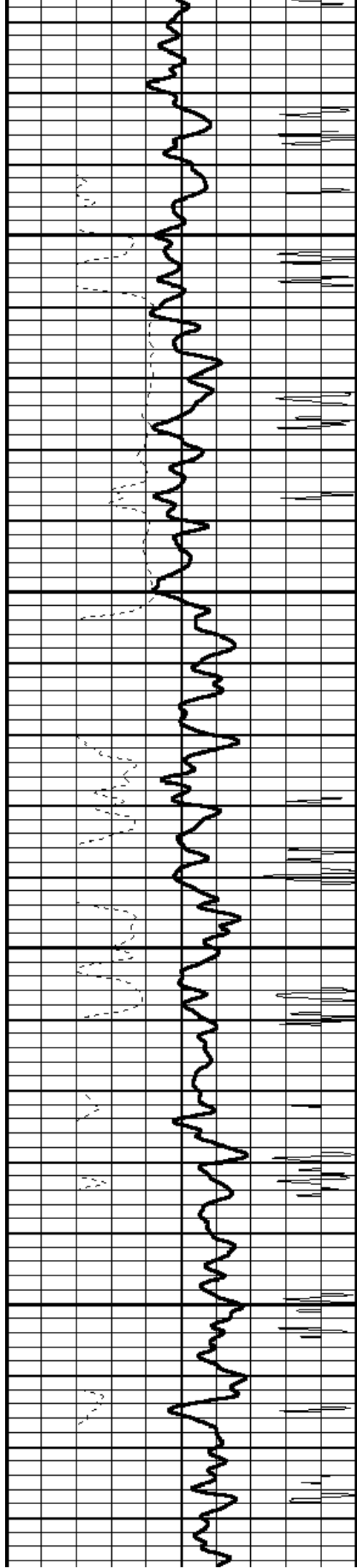
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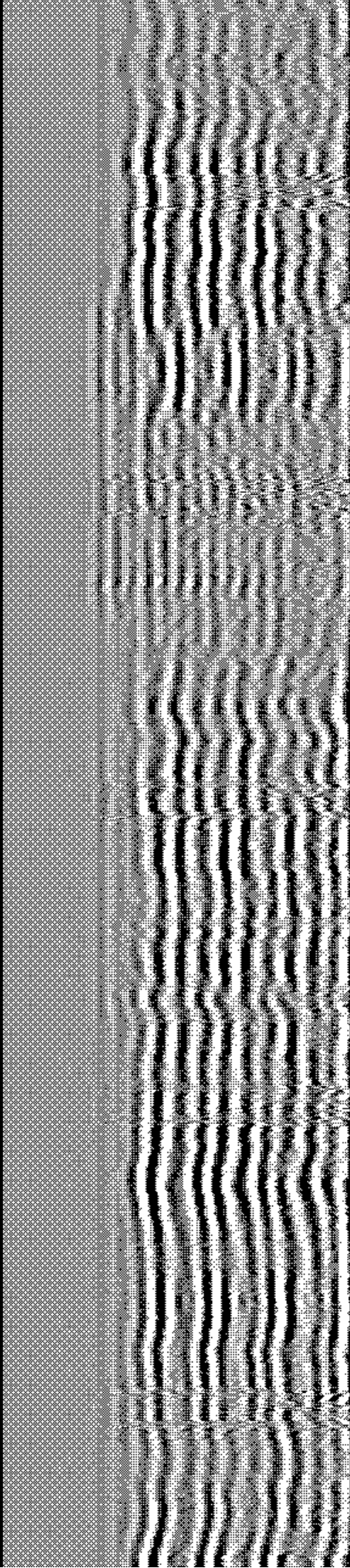
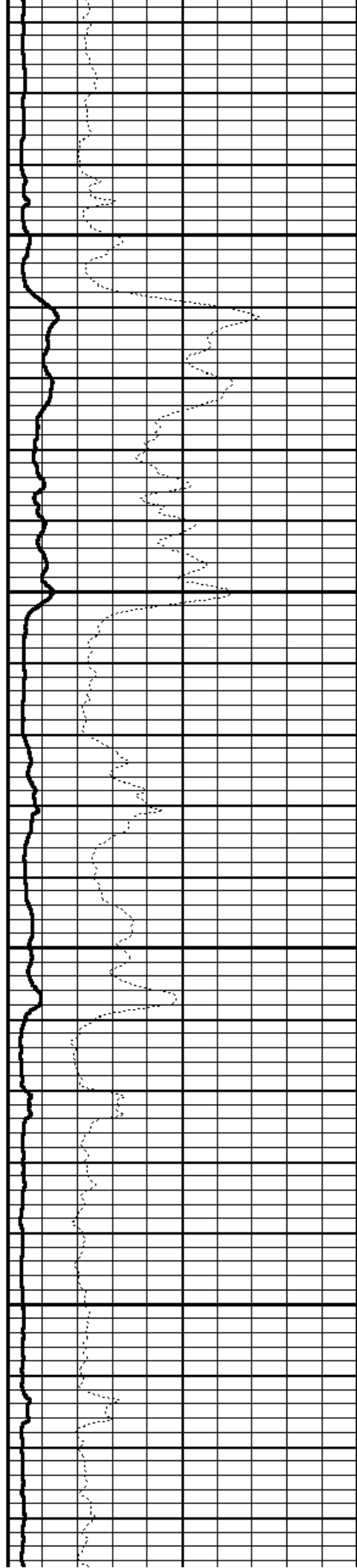


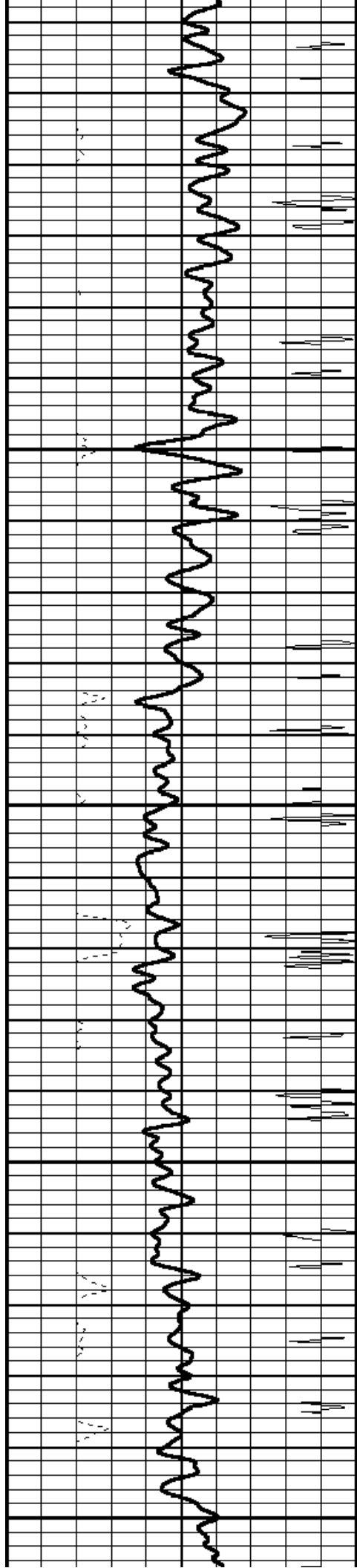
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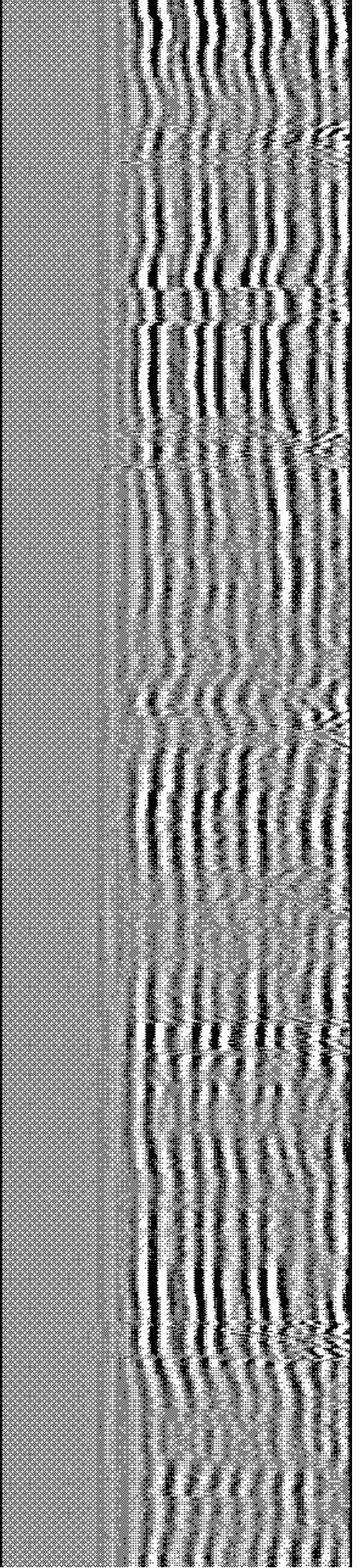
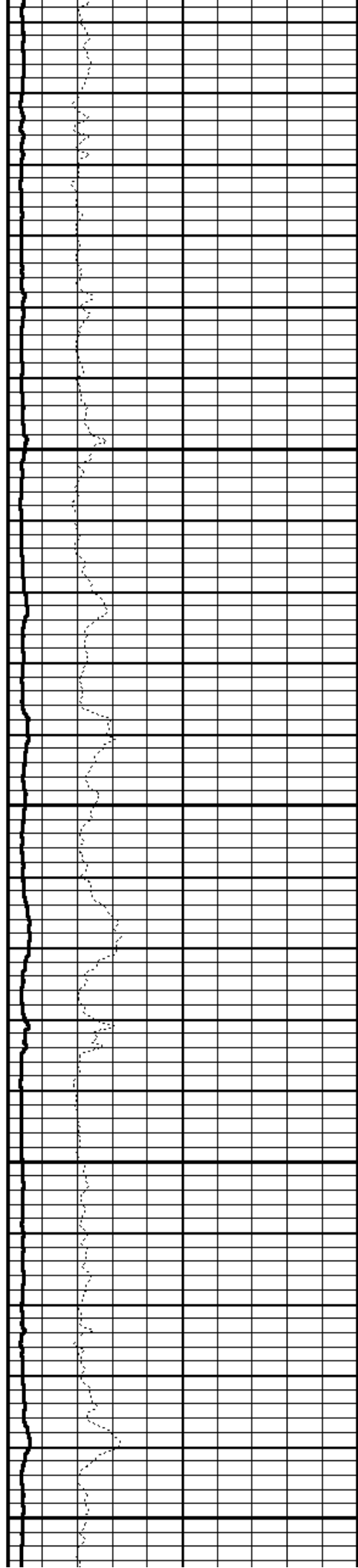
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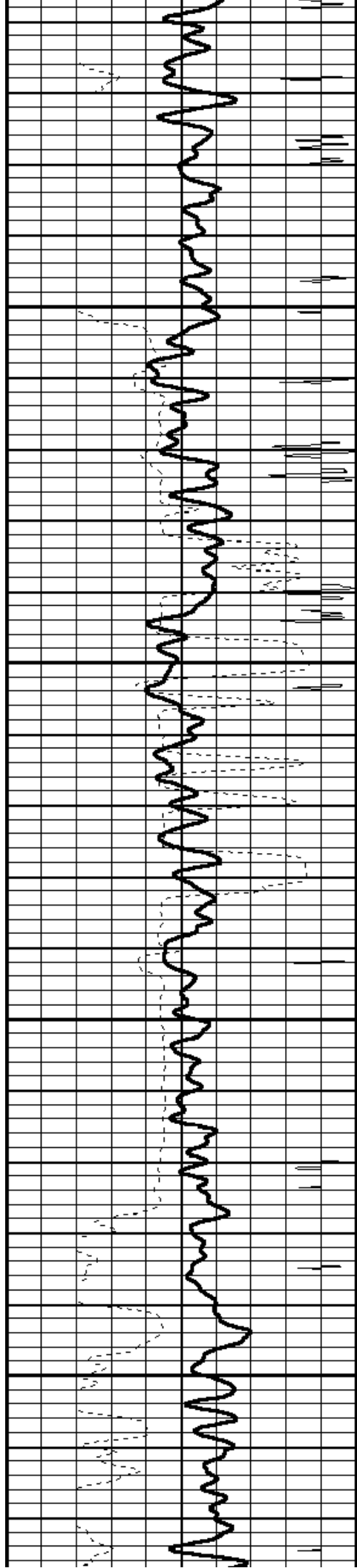
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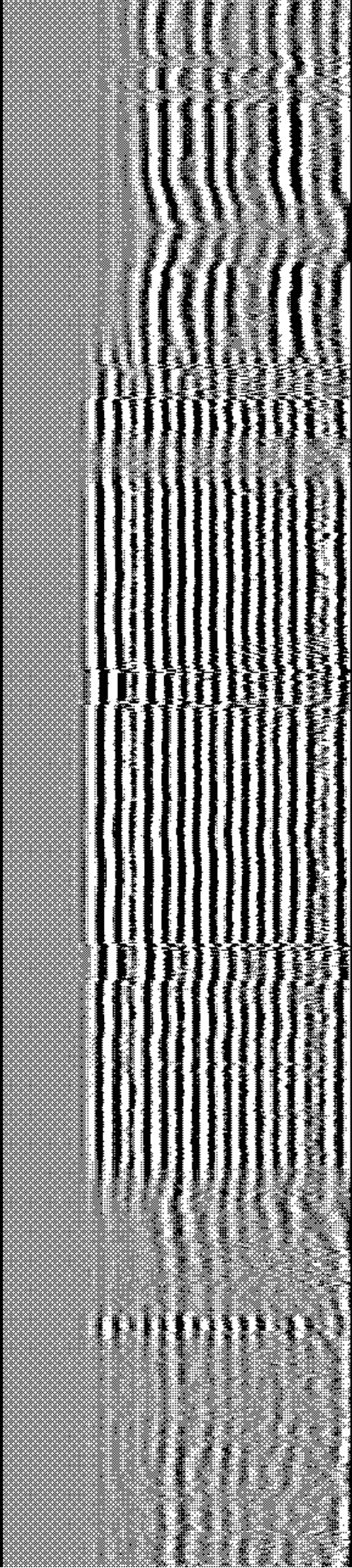
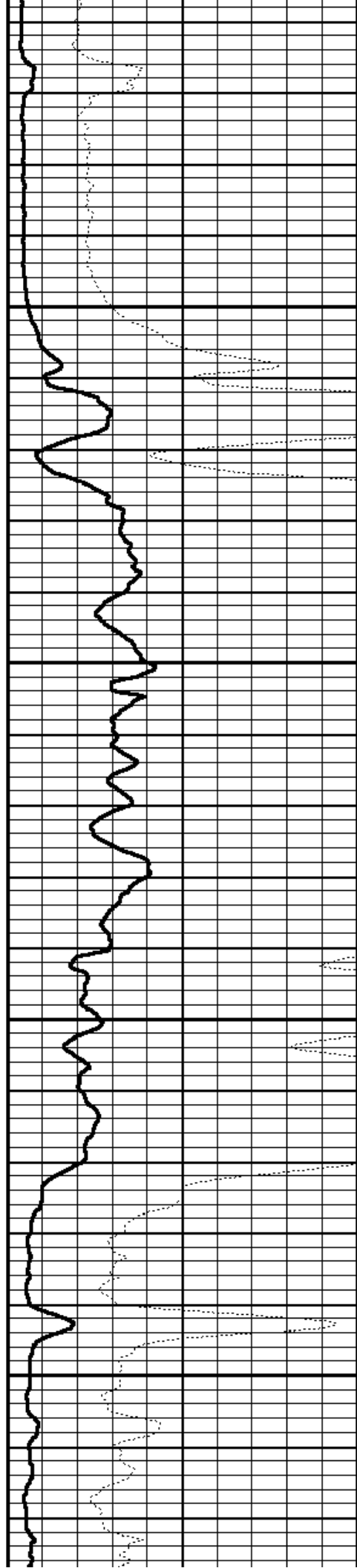


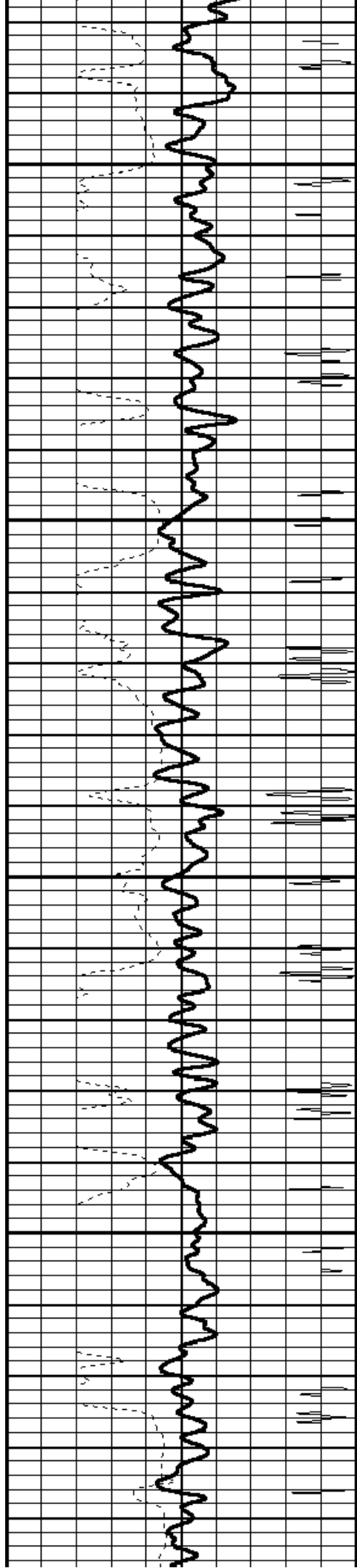
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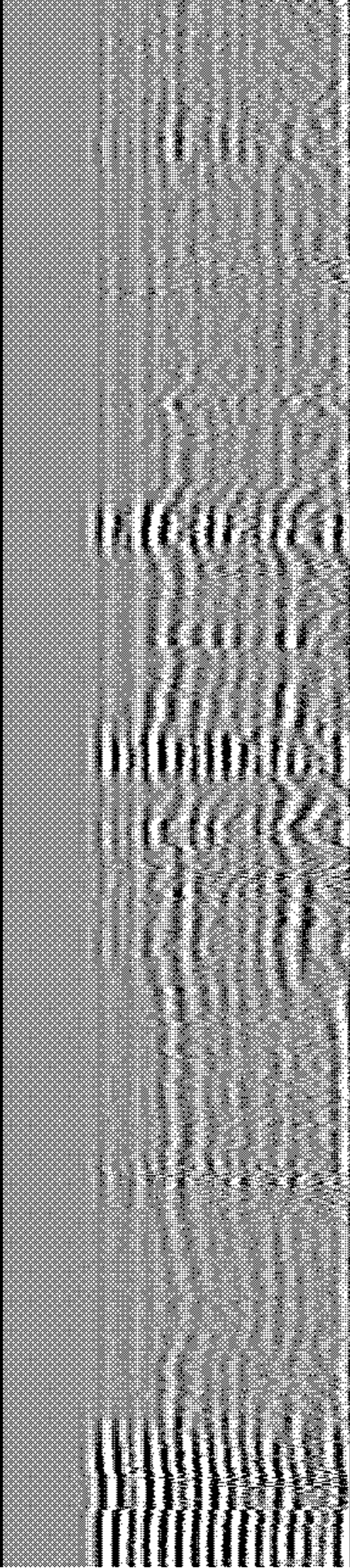
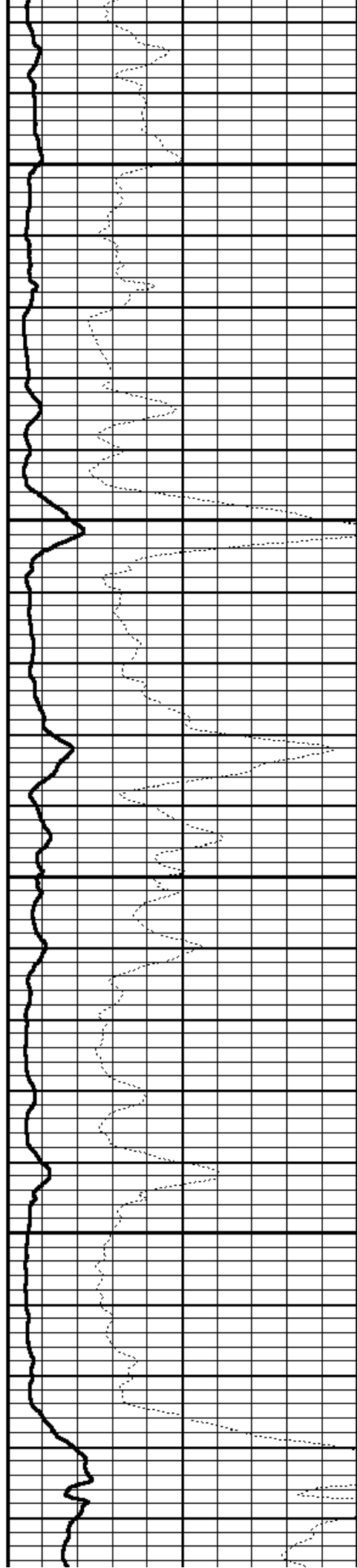


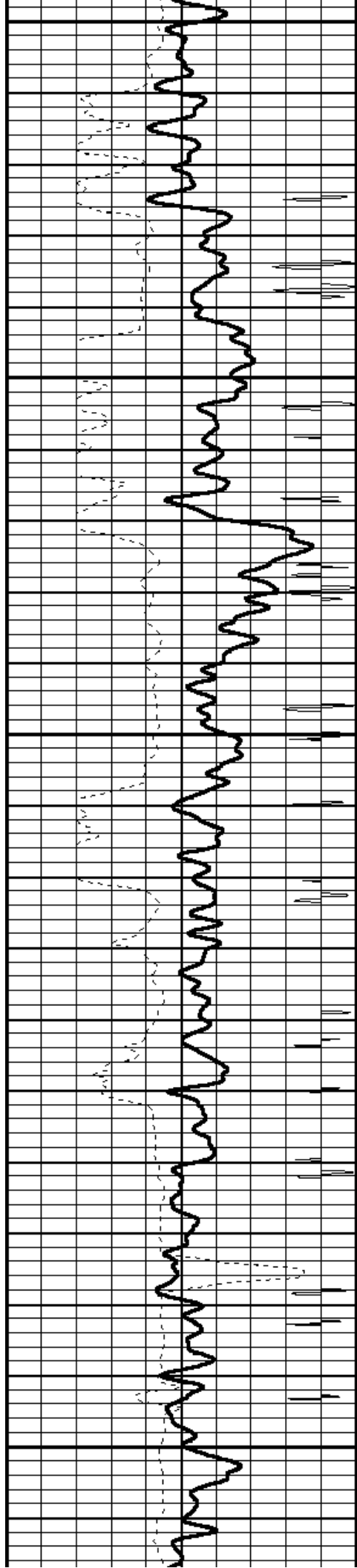
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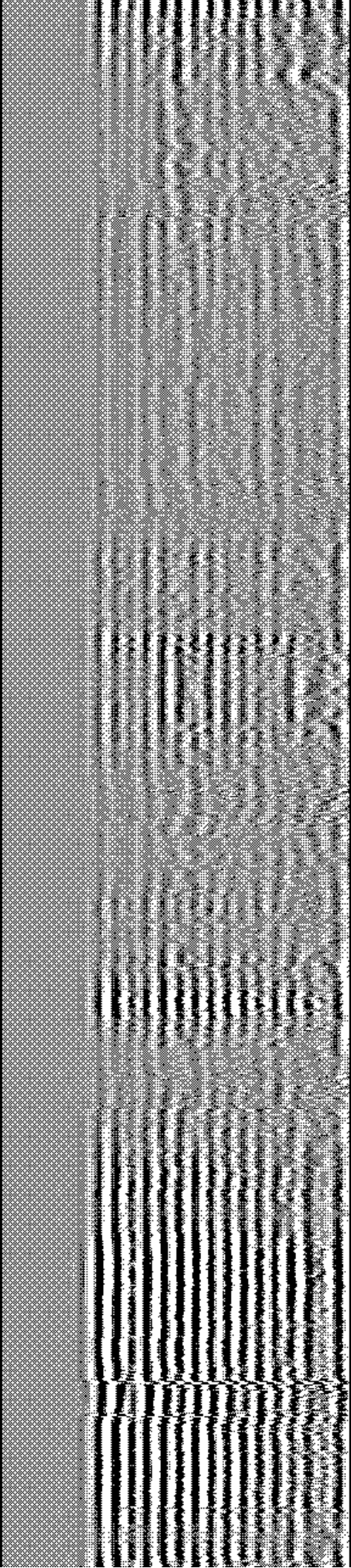
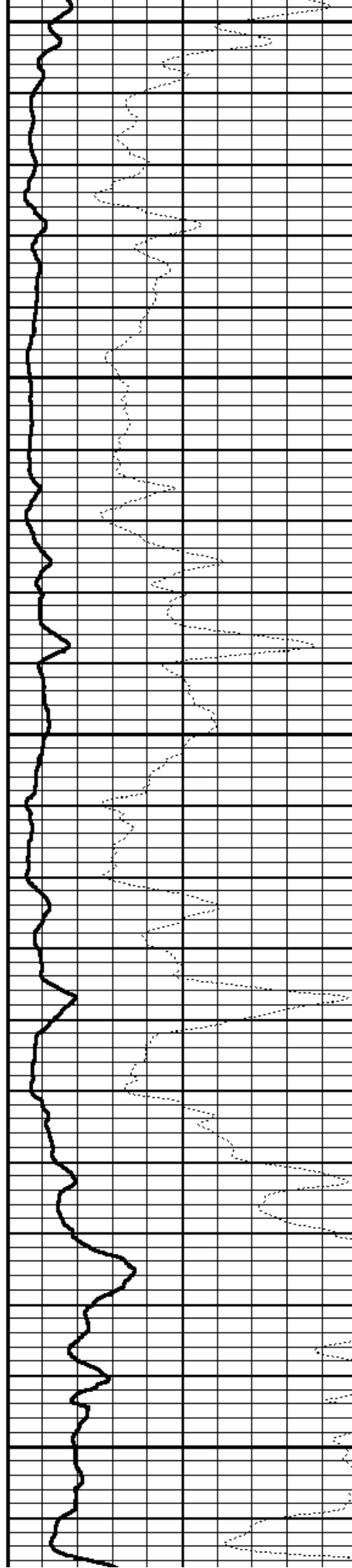
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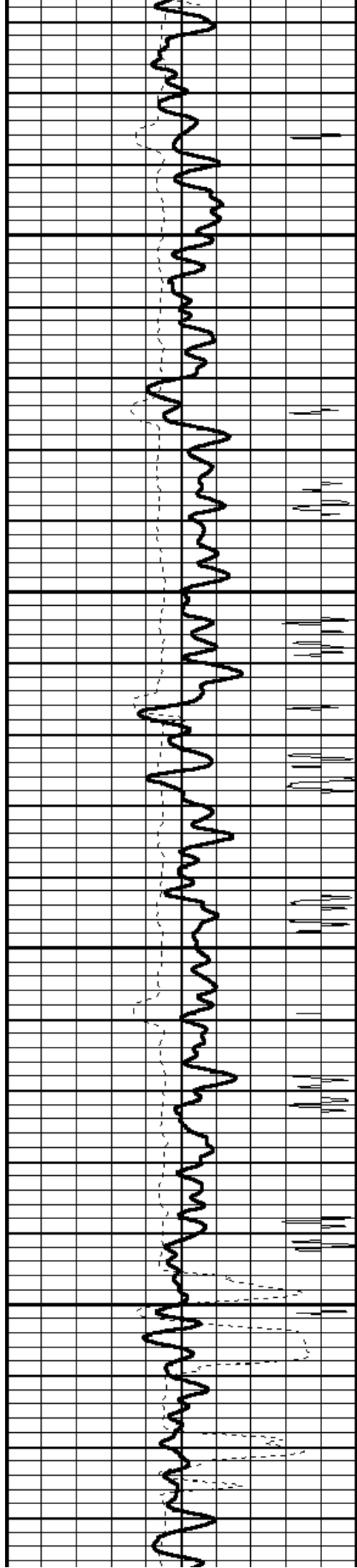
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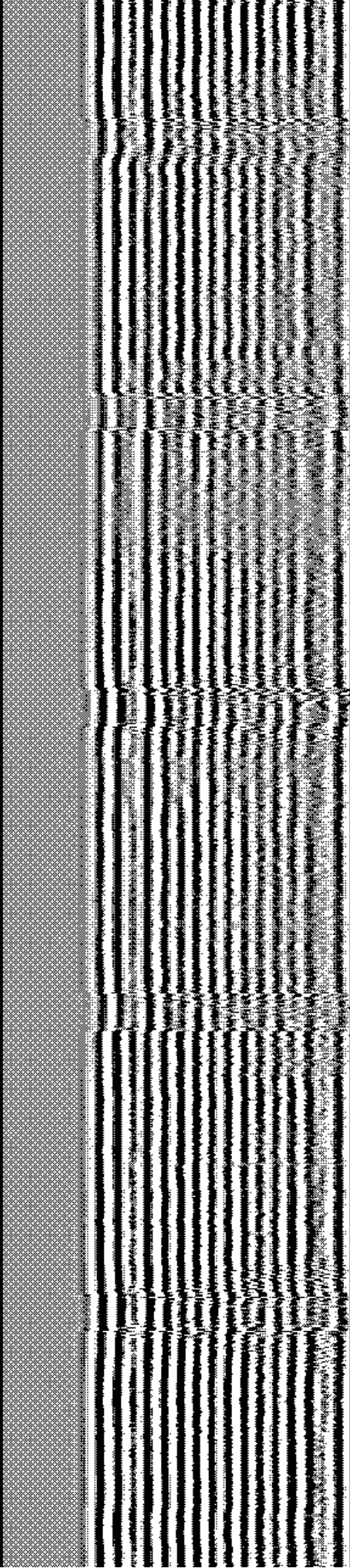
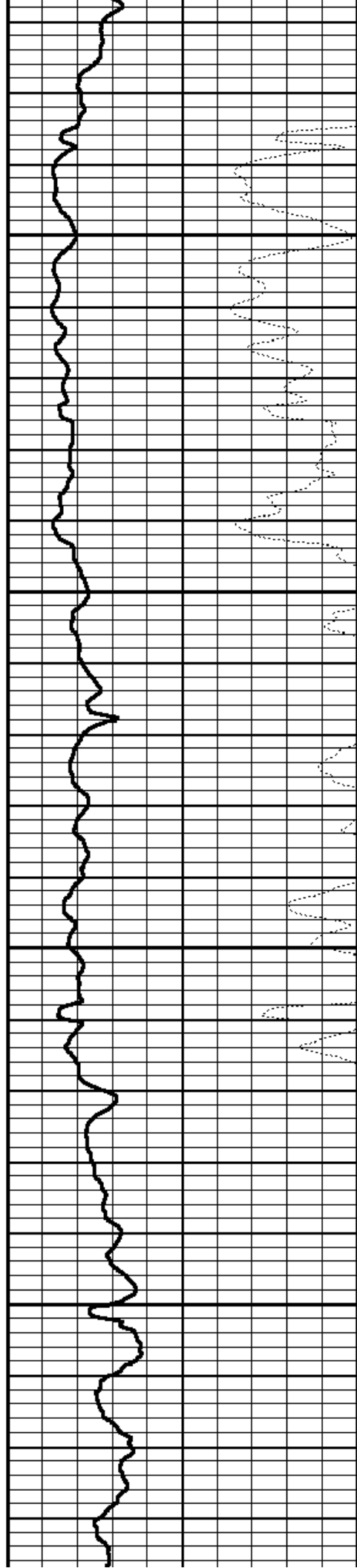


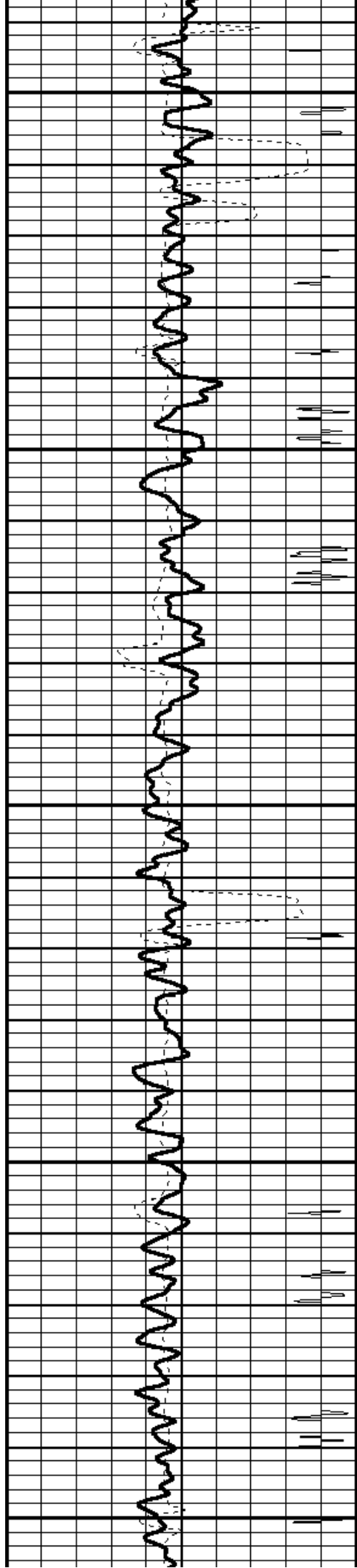
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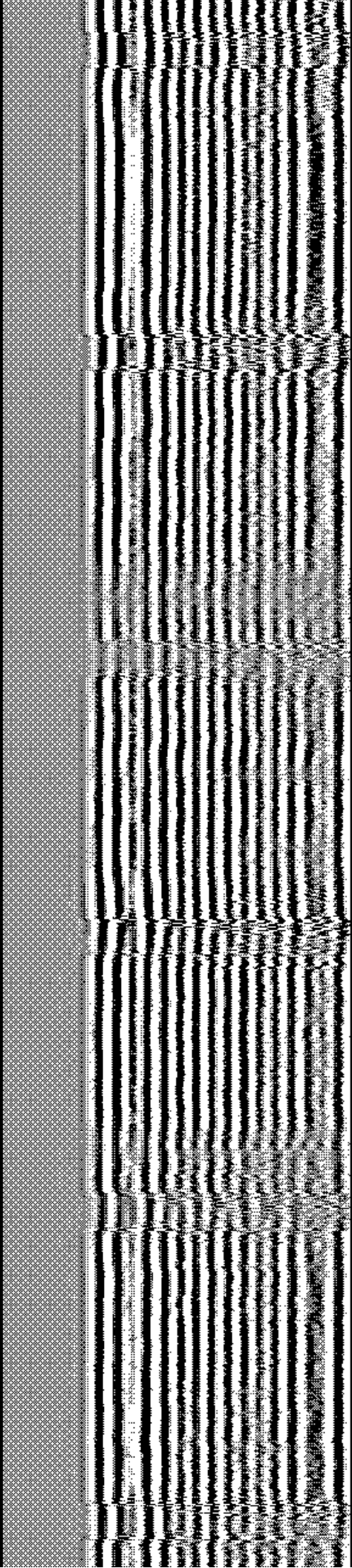
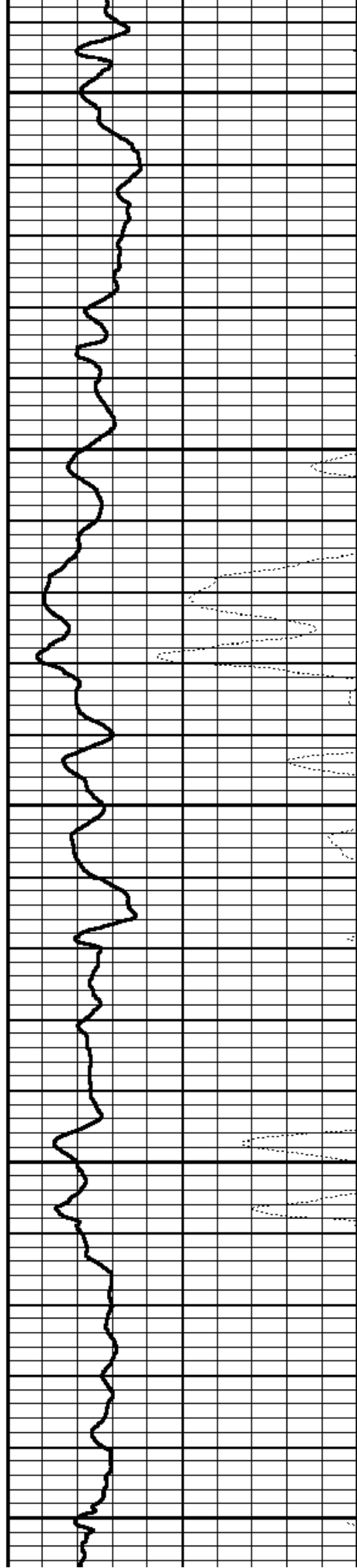
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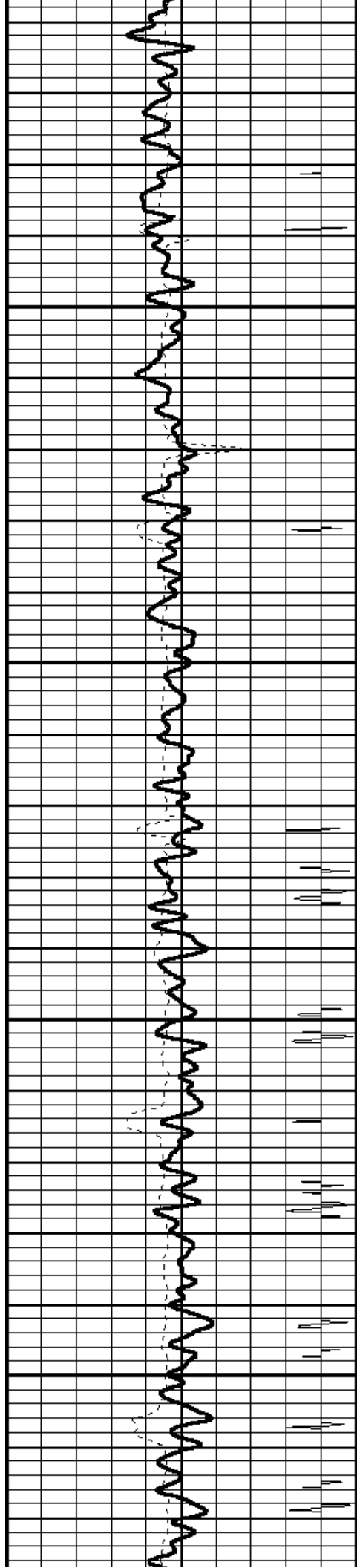
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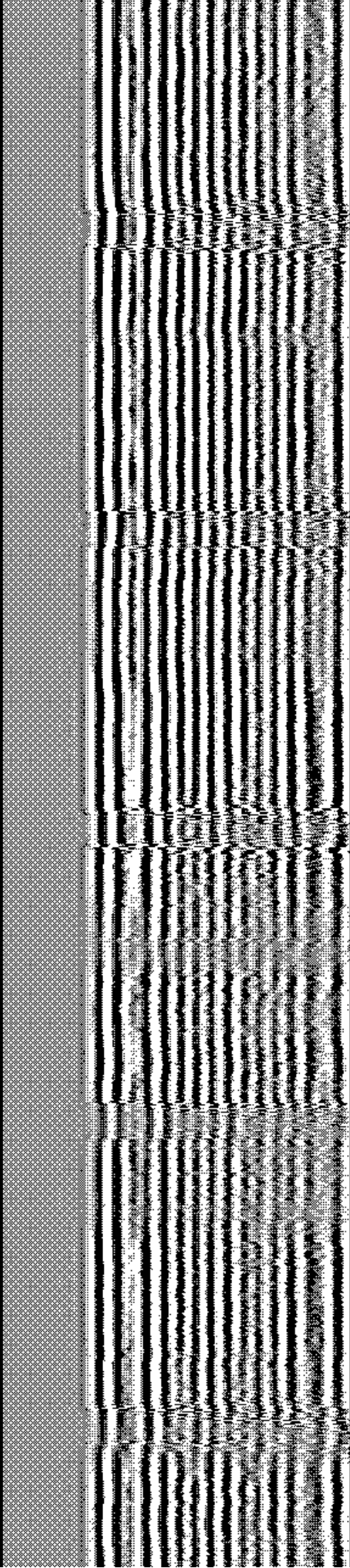
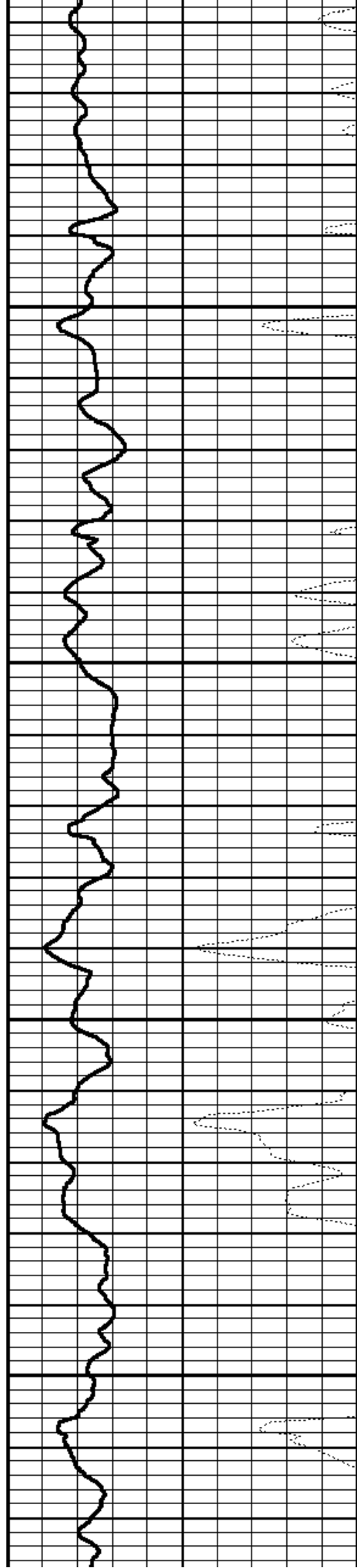


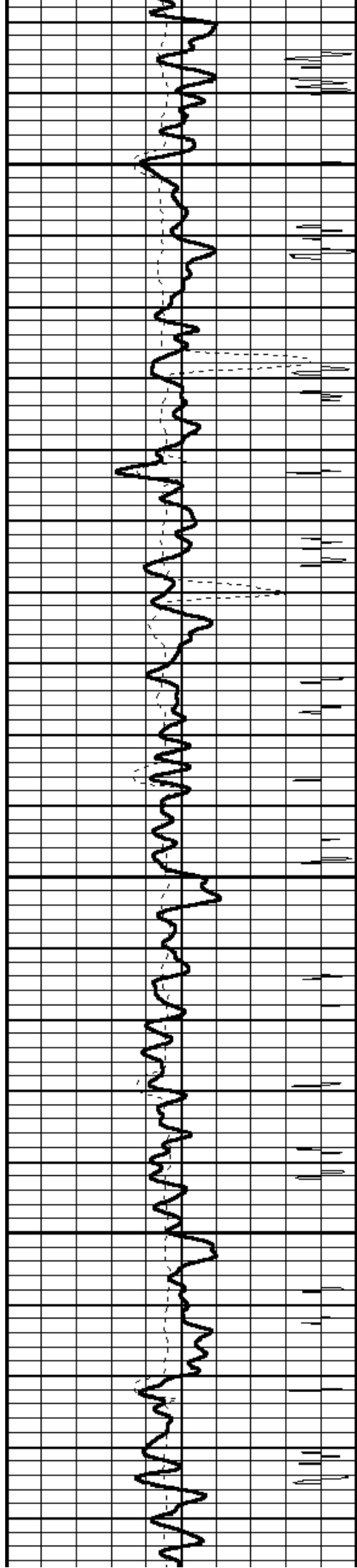
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5850

5900

5950



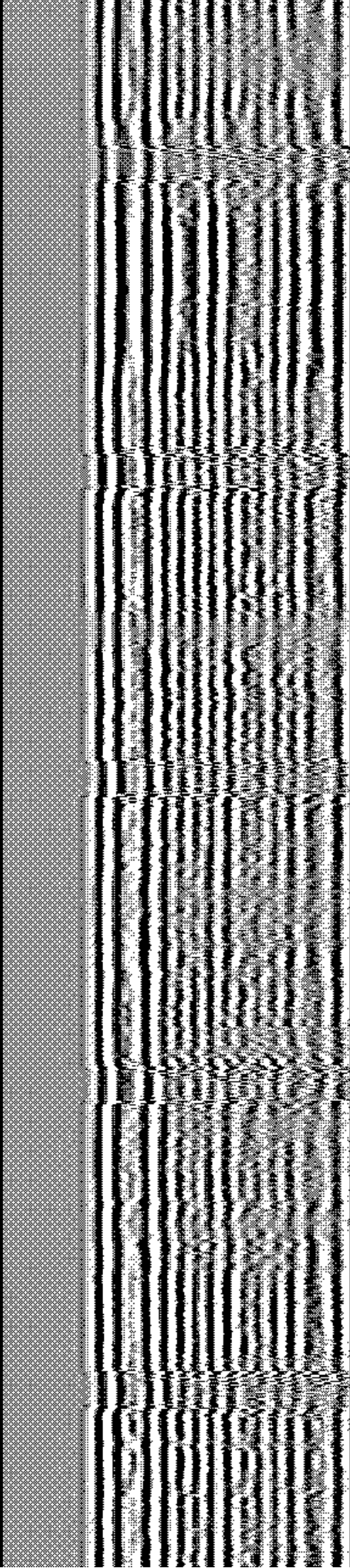
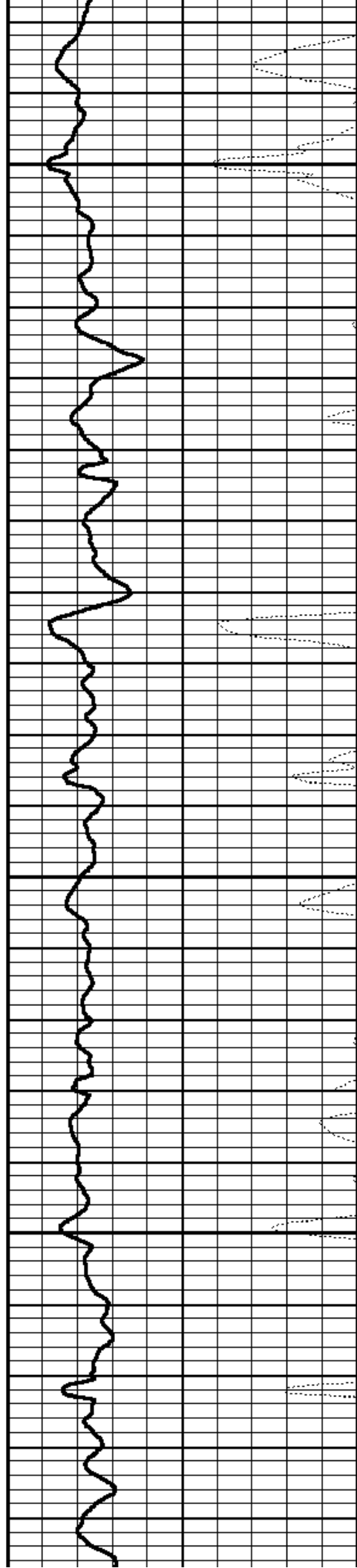


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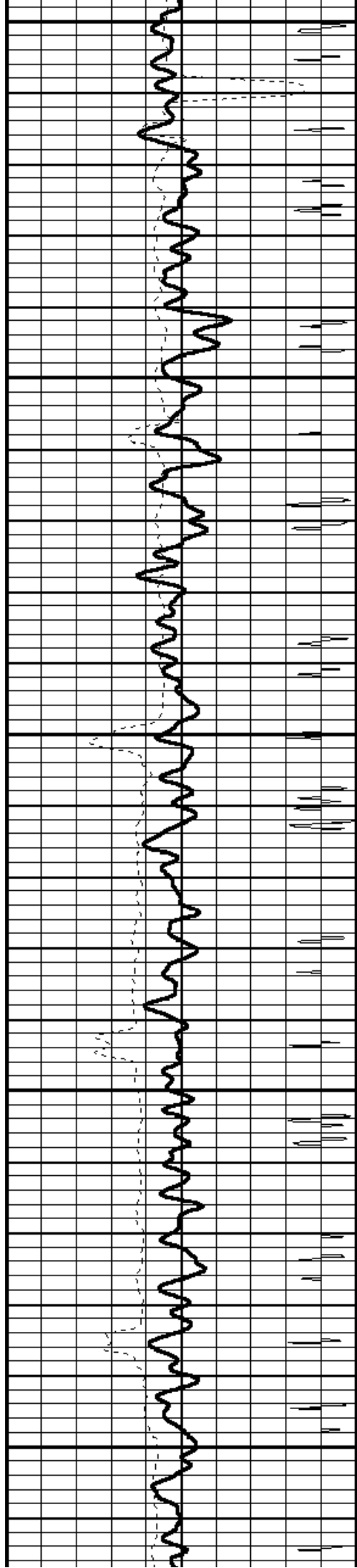
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6150







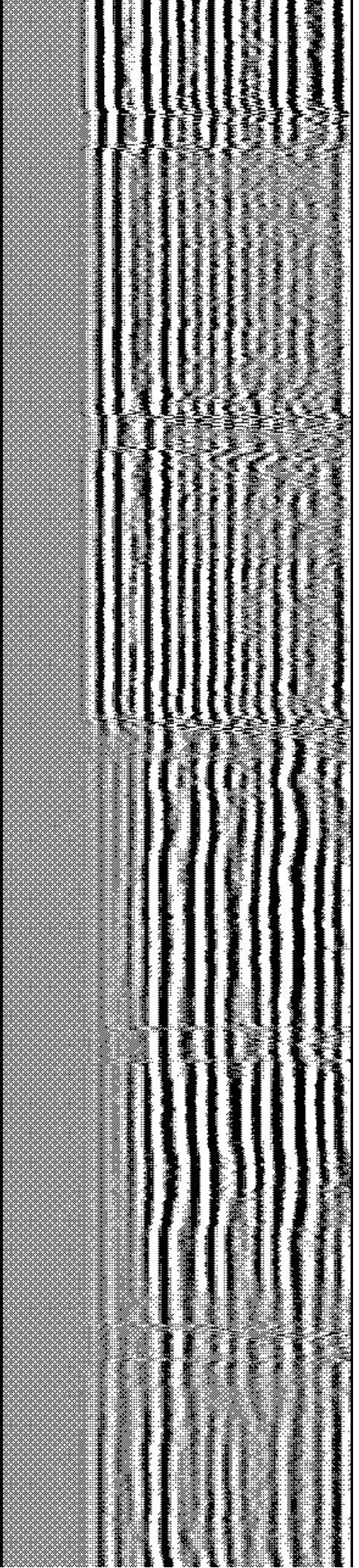
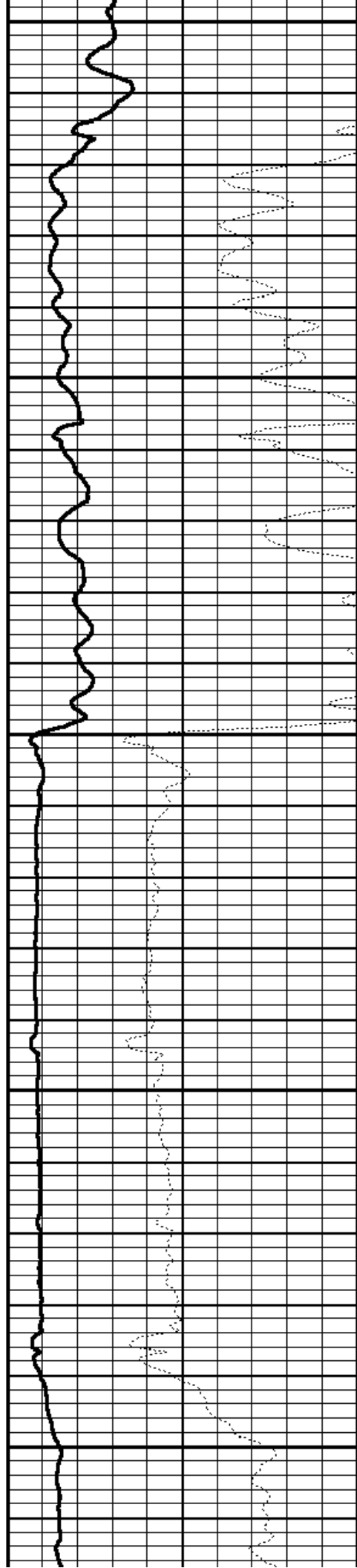
6200

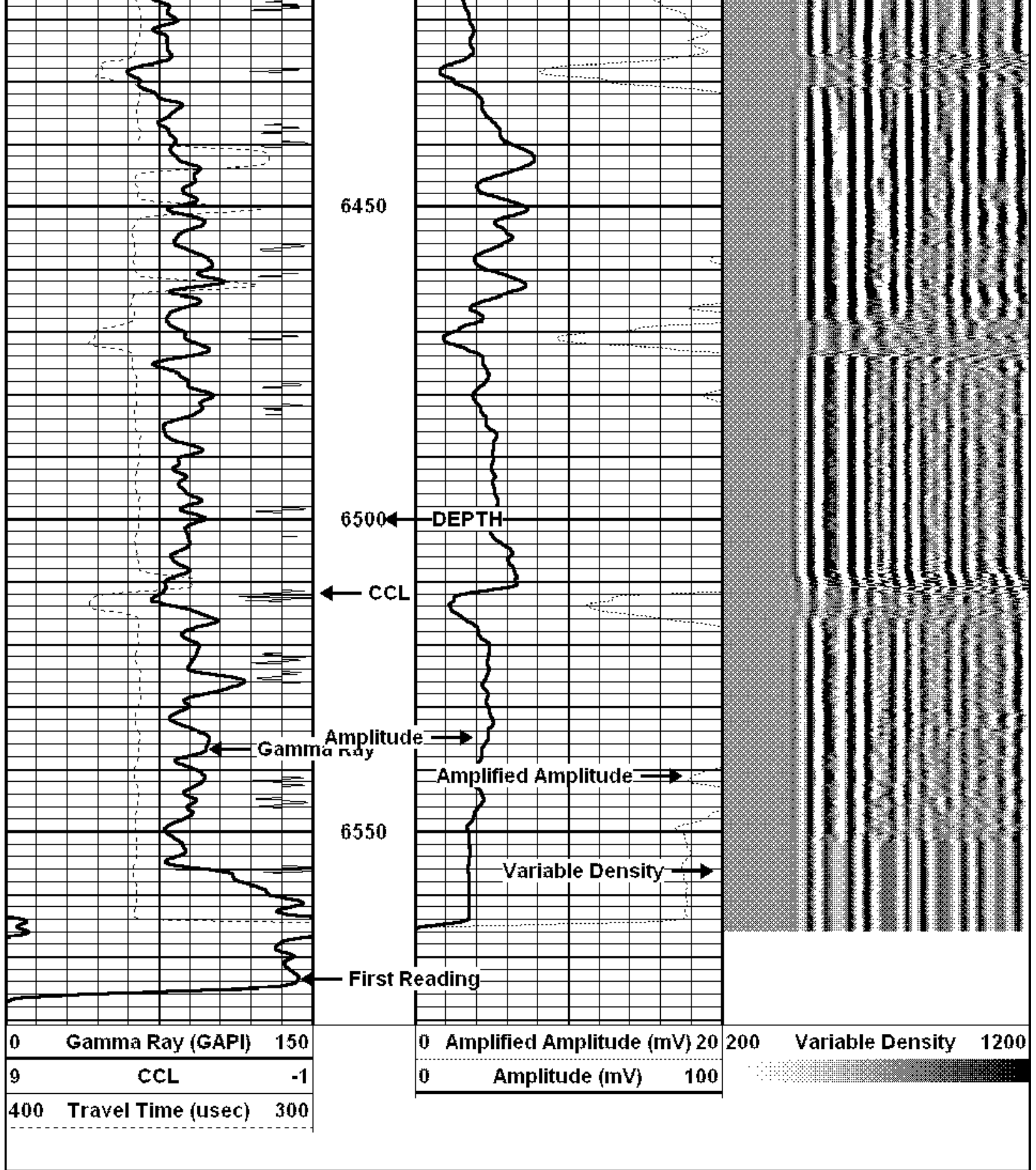
6250

6300

6350

6400

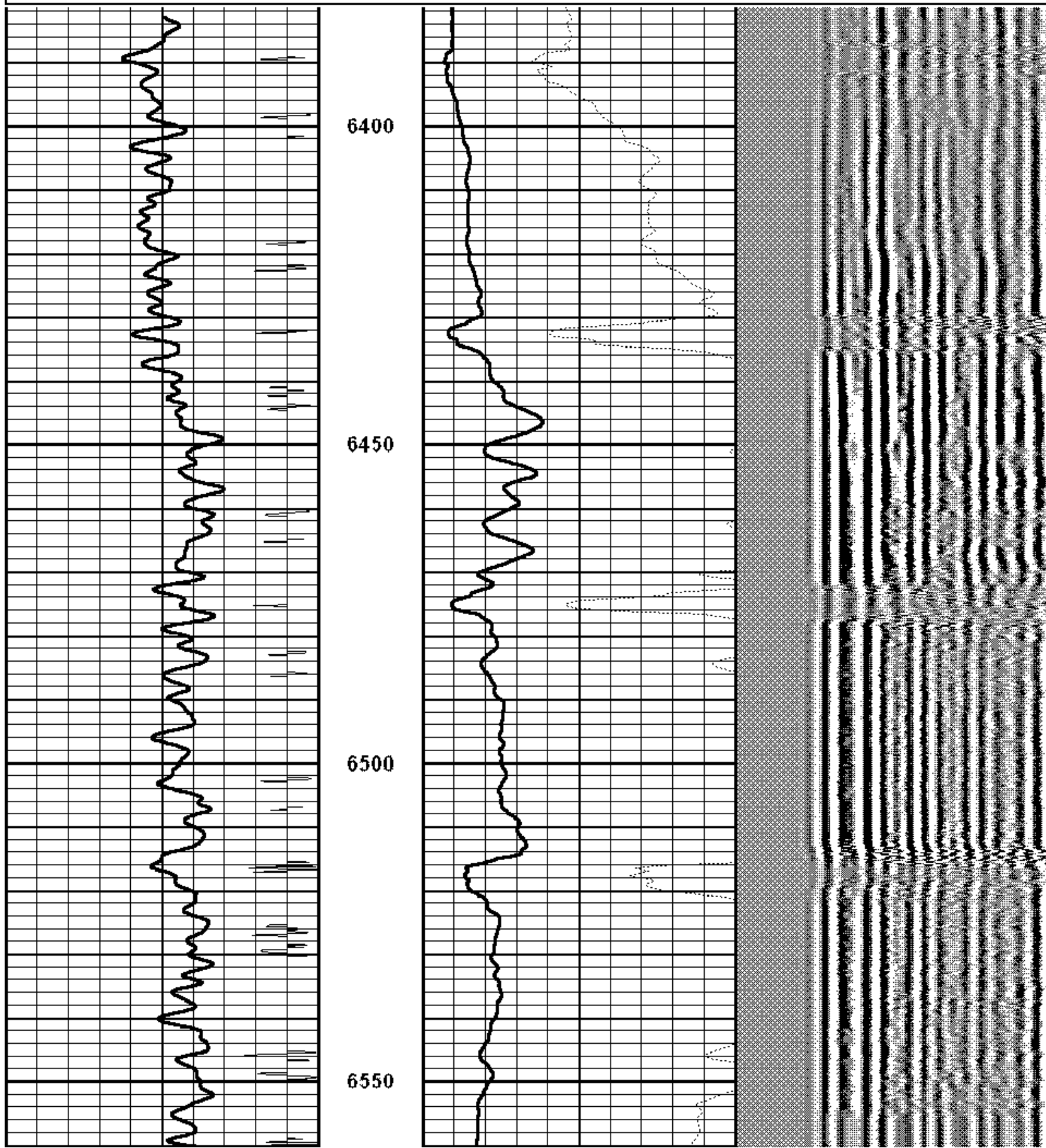


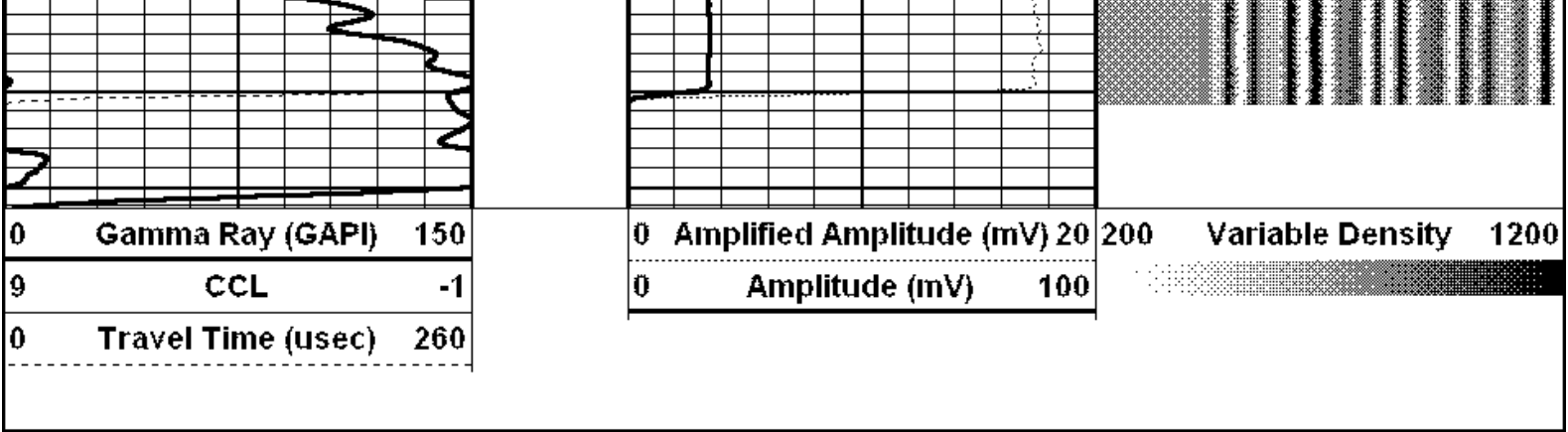



Dataset Pathname: pass7  
Presentation Format: cbl\_dr  
Dataset Creation: Tue Apr 21 10:12:42 2015 by Log Std Casedhole 08121  
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
9	CCL	-1
0	Travel Time (usec)	260


0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Amplitude (mV)	100			





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
						
			Probe	2.86	2.75	40.00
WVF3	11.98		CBL-Probe (DCBL_FRB_275_01) Probe 2.75" Dual Receiver Bond	8.77	2.75	60.00
WVF5	10.98					
			Probe	2.86	2.75	40.00
CCL	3.63					

GR	0.90		GR-Probe (GROCL_PFB_275_02) Probe 2.75" 4 Channel Pulse	4.88	2.75	30.00
Dataset: black_hills_Cbl_4-21-2015.db: field/well/run1/pass9 Total Length: 19.36 ft Total Weight: 170.00 lb O.D.: 2.75 in						

	Company	Black Hills Production
	Well	Homer Deep Unit 9-11 CH
	Field	South Shale Ridge
	County	Garfield
	State	Colorado