



**CEMENT BOND LOG**  
**FINAL PRINT**

**Company** Encana Oil & Gas Inc.

**WEL  
SELTZER UNIT**

Field Wattenberg

County Weld State Colorado

Location: API #: 05-123-10490

**990' FSL & 990 FELL**

SEC 34 TWP 1N RGE 67W

Permanent Datum GROUND LEVEL Elevation 5047

Log Measured From K.K.B. 15

## Drilling Measured From RIG KELLY BUSHING

### Elevation

K. B. 5062

604

[illegible]

06-29-2015

ONE	
ONE	

	7705'
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7705	CLIPFACE
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6.25<sup>11</sup>

	H2O
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[illegible]

D-6 PROB1

MEAD	
C SEIP	

THE OFFICER

Whole Record	From	To
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[illegible]

SIZE	6-5 1/2" H
AAA	
3	

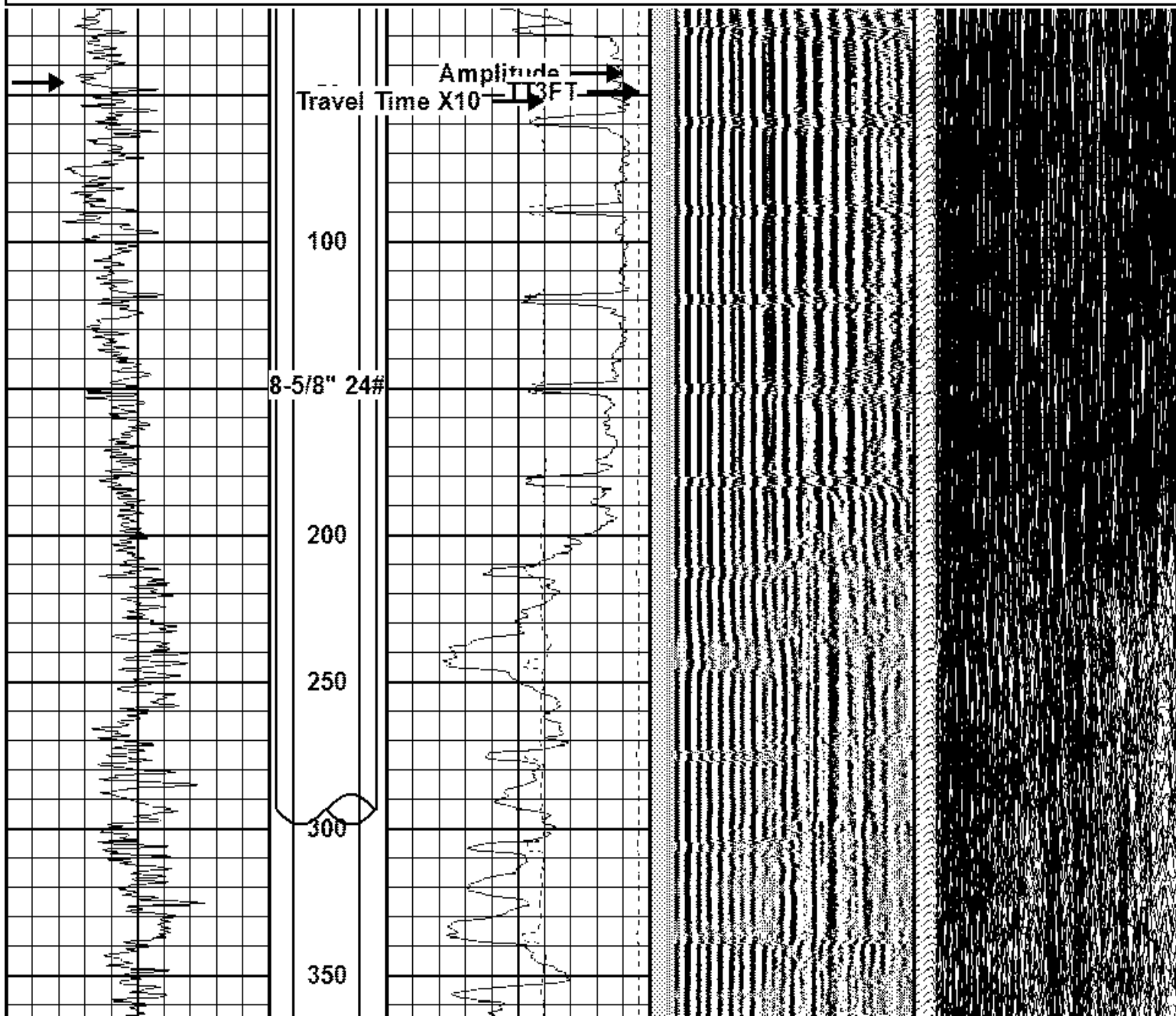
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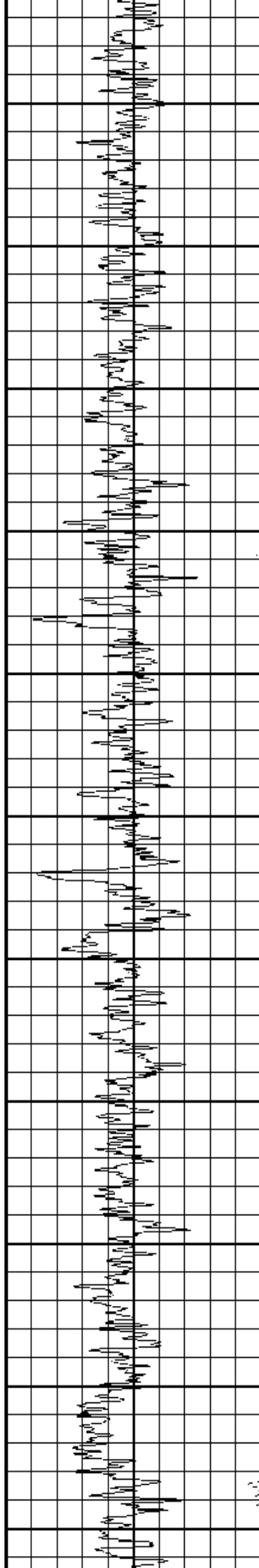
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D (in)	Weight (lb)
			CENT-Probe169 Probe Long 1 11/16" Centralizer	3.30	1.69	5.00
COL	12.90					
GR	9.50		CBL_PR635-Probe169 (PRO1) Probe 1 11/16" Dual Receiver / Gamma Ray / COL	11.33	1.69	55.00
WVF3FT	7.72					
WVF5FT	6.72					
WVFSYNC	3.30		CENT-Probe169 Probe Long 1 11/16" Centralizer	3.30	1.69	5.00

Database File encana e unit1.db  
 Dataset Pathname pass3  
 Presentation Format cbl4inpl  
 Dataset Creation Mon Jun 29 14:53:02 2015  
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray	150		Amplitude X5	150	VDL	1200	150	SIGNATURE	1200
5	BONDIX	0.5		0 (mV)	24					
				Amplitude						
				0 (mV)	120					
				TT3FT						
				1200 (usec)	200					
				Travel Time X10						
				300 (usec)	200					





400

450

500

550

600

650

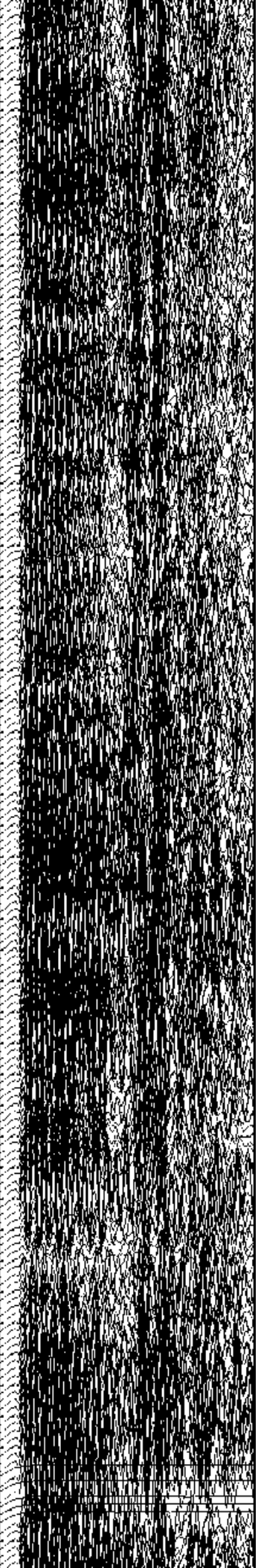
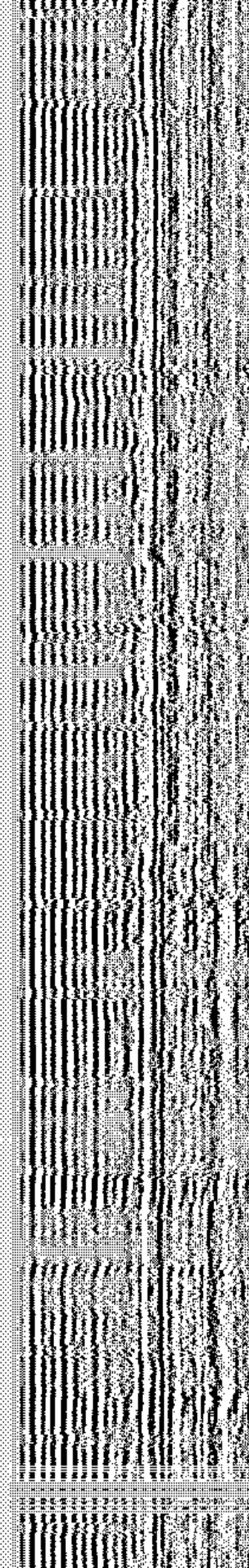
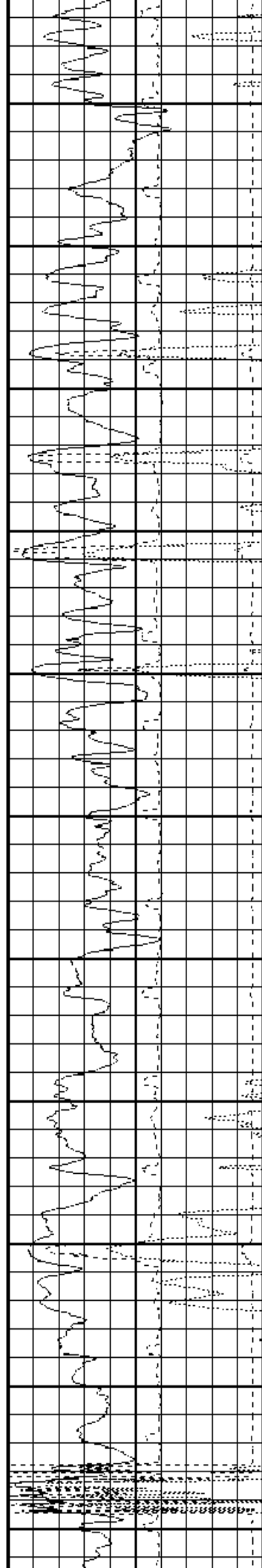
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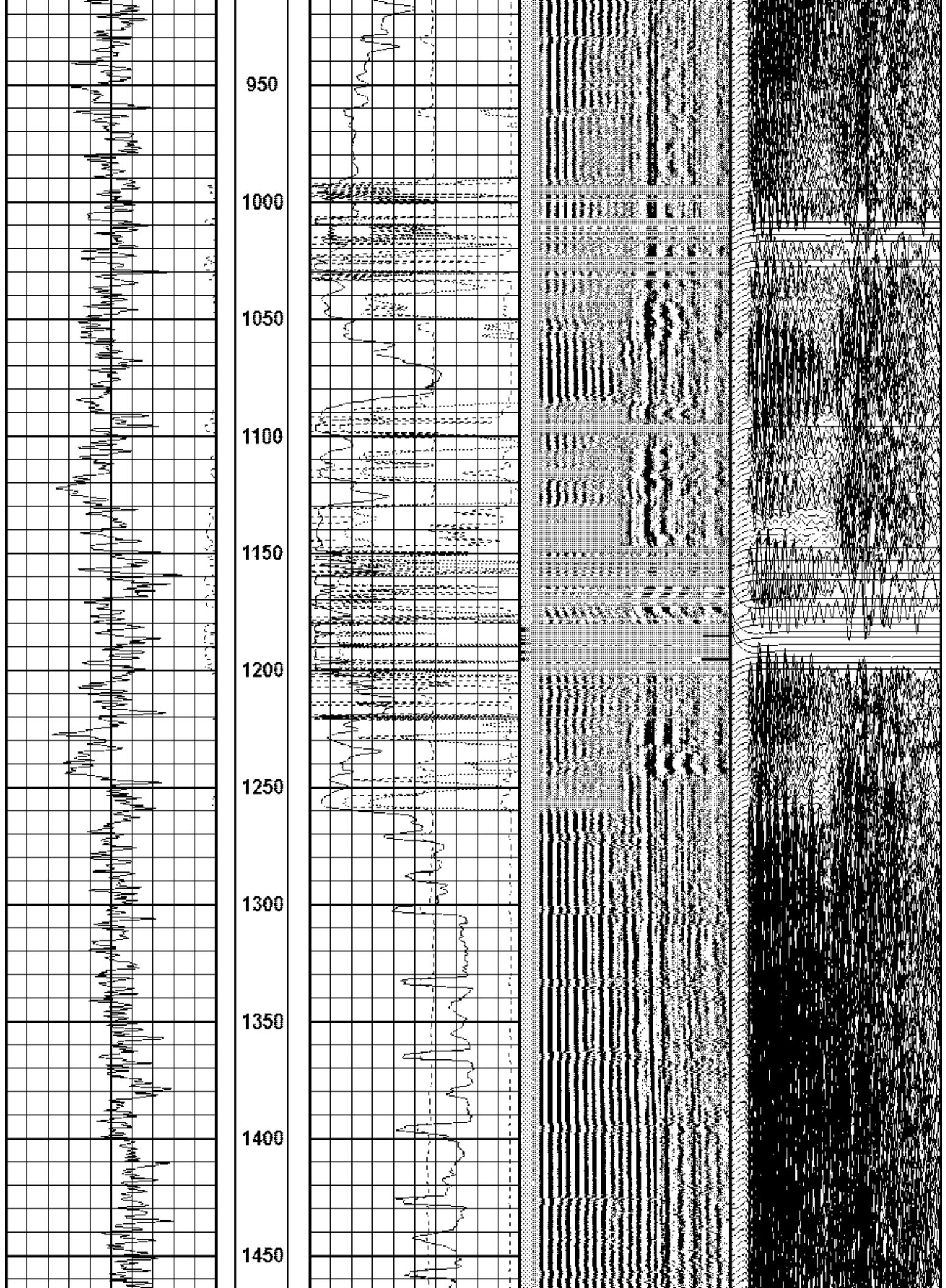
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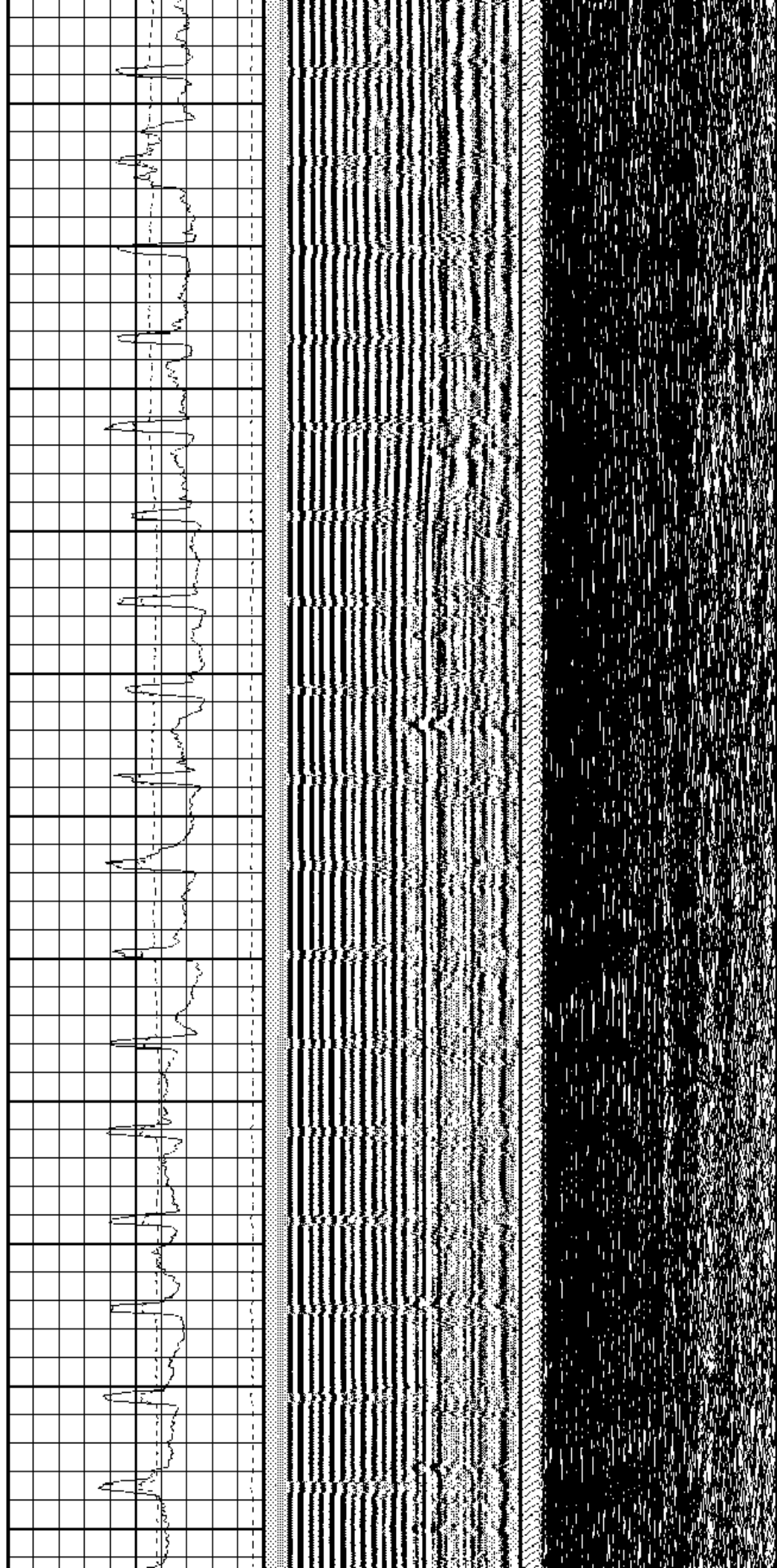
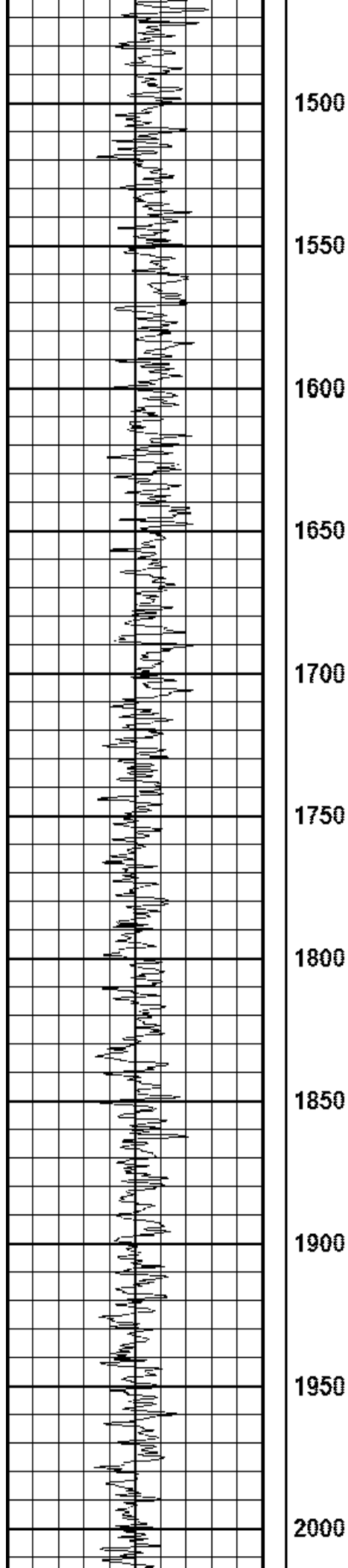
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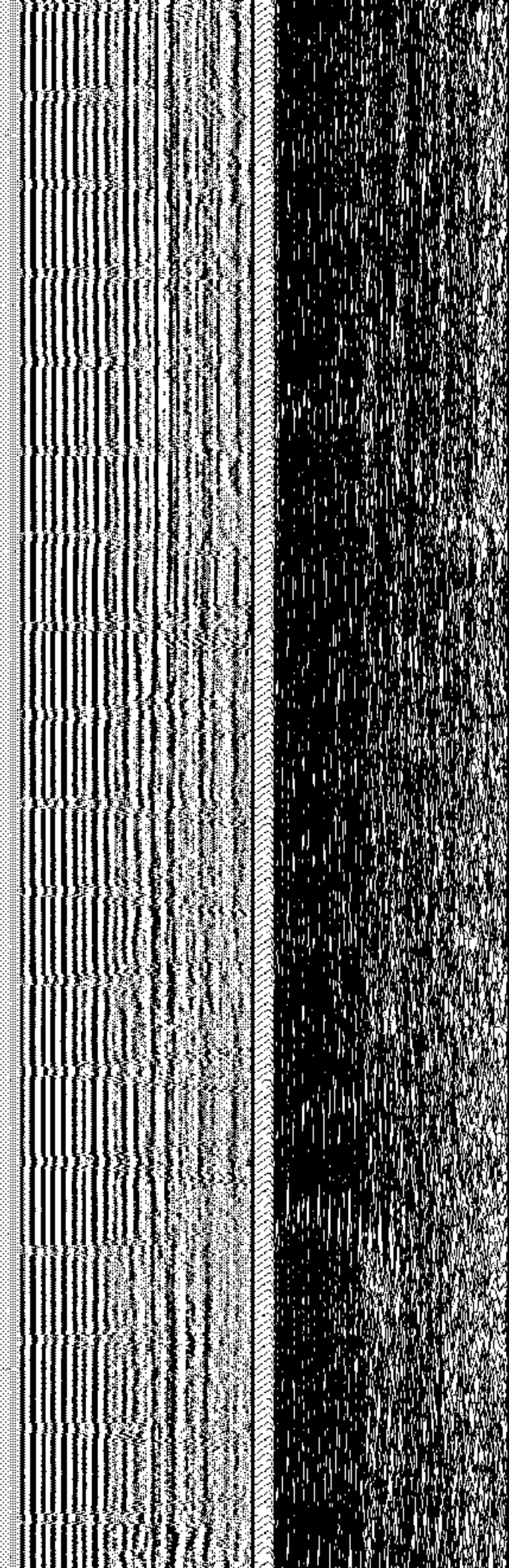
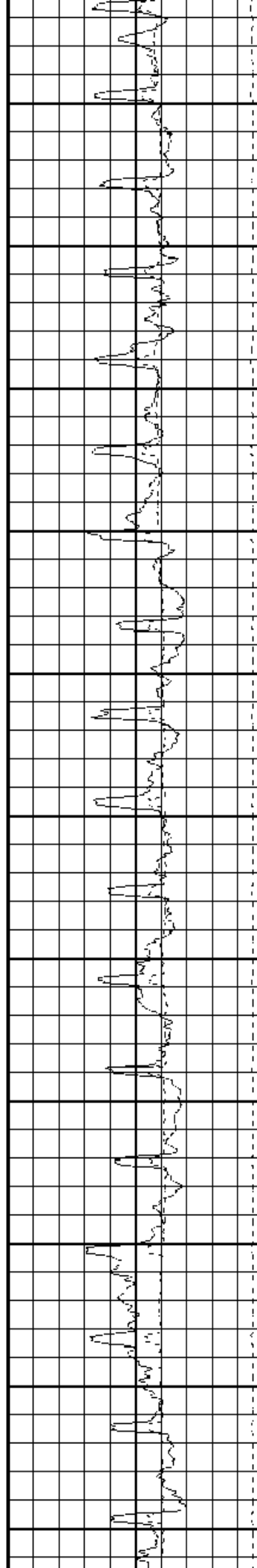
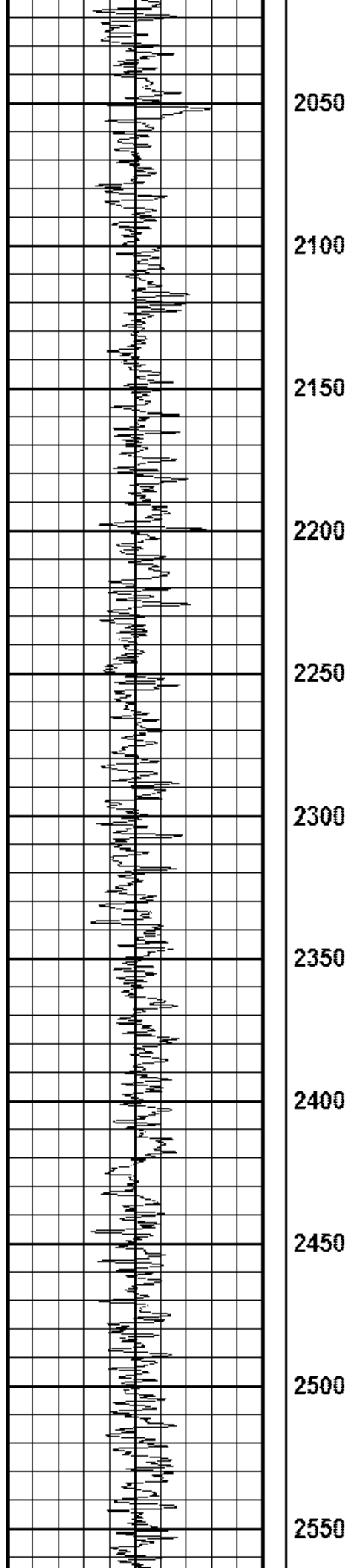
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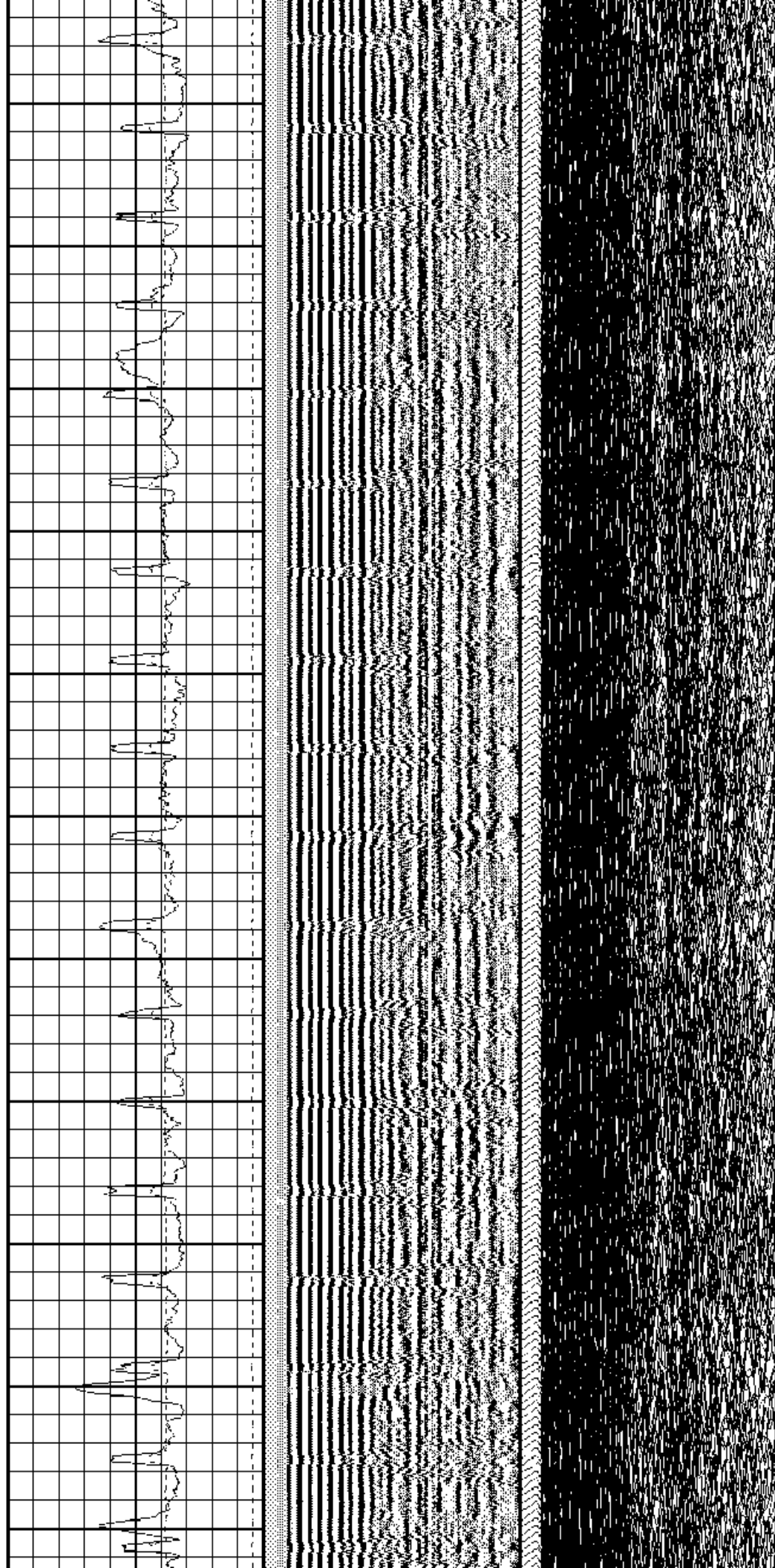
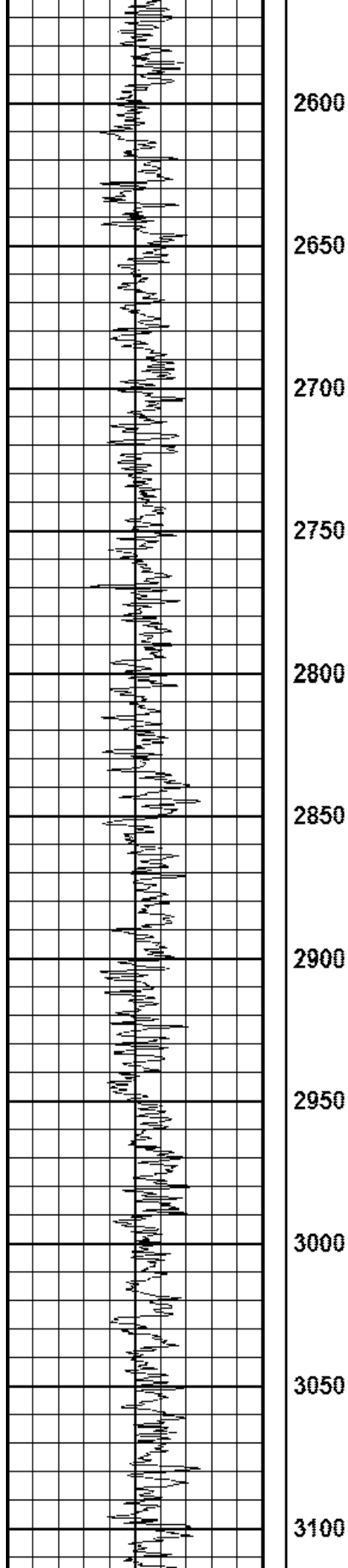




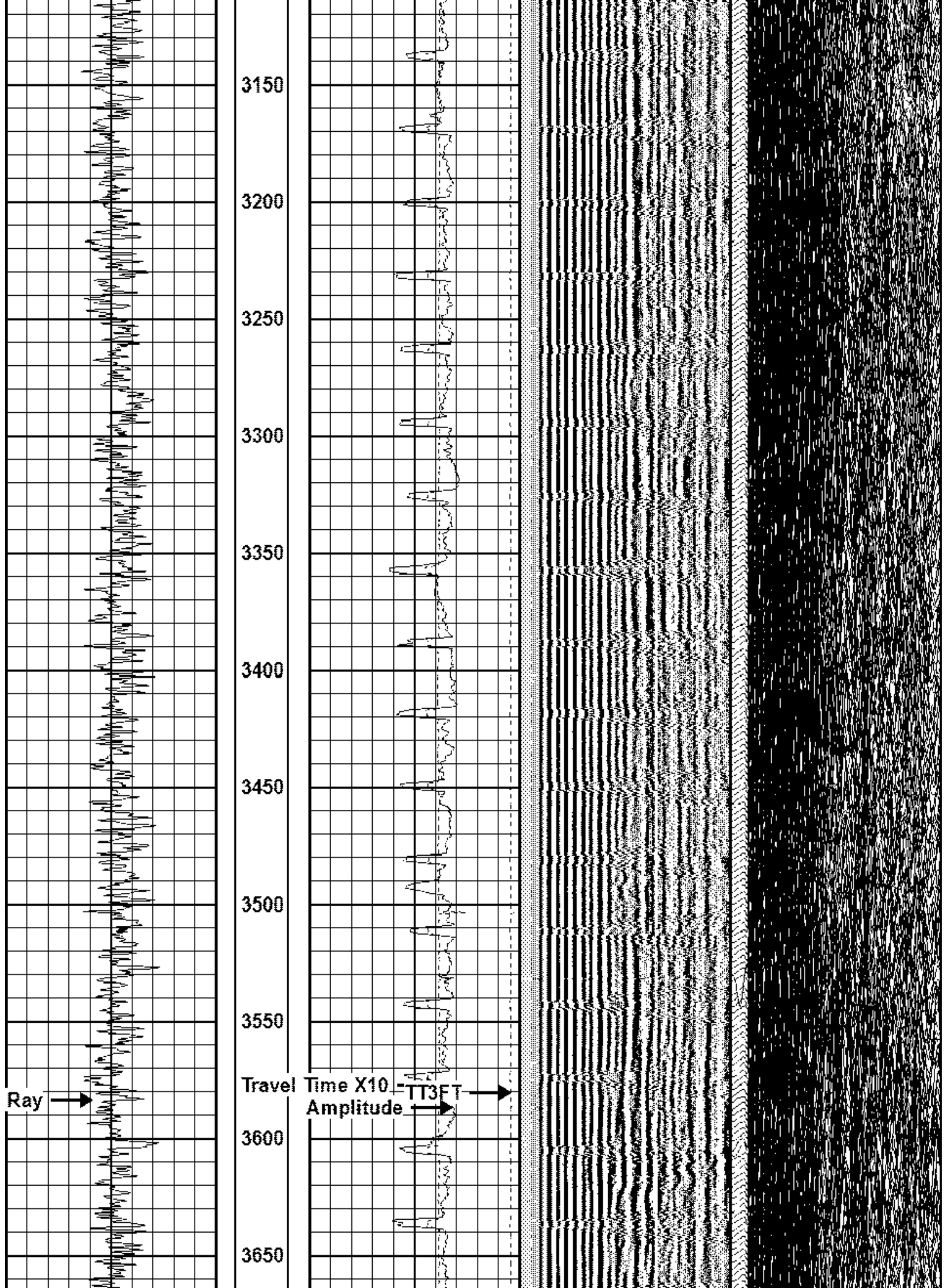


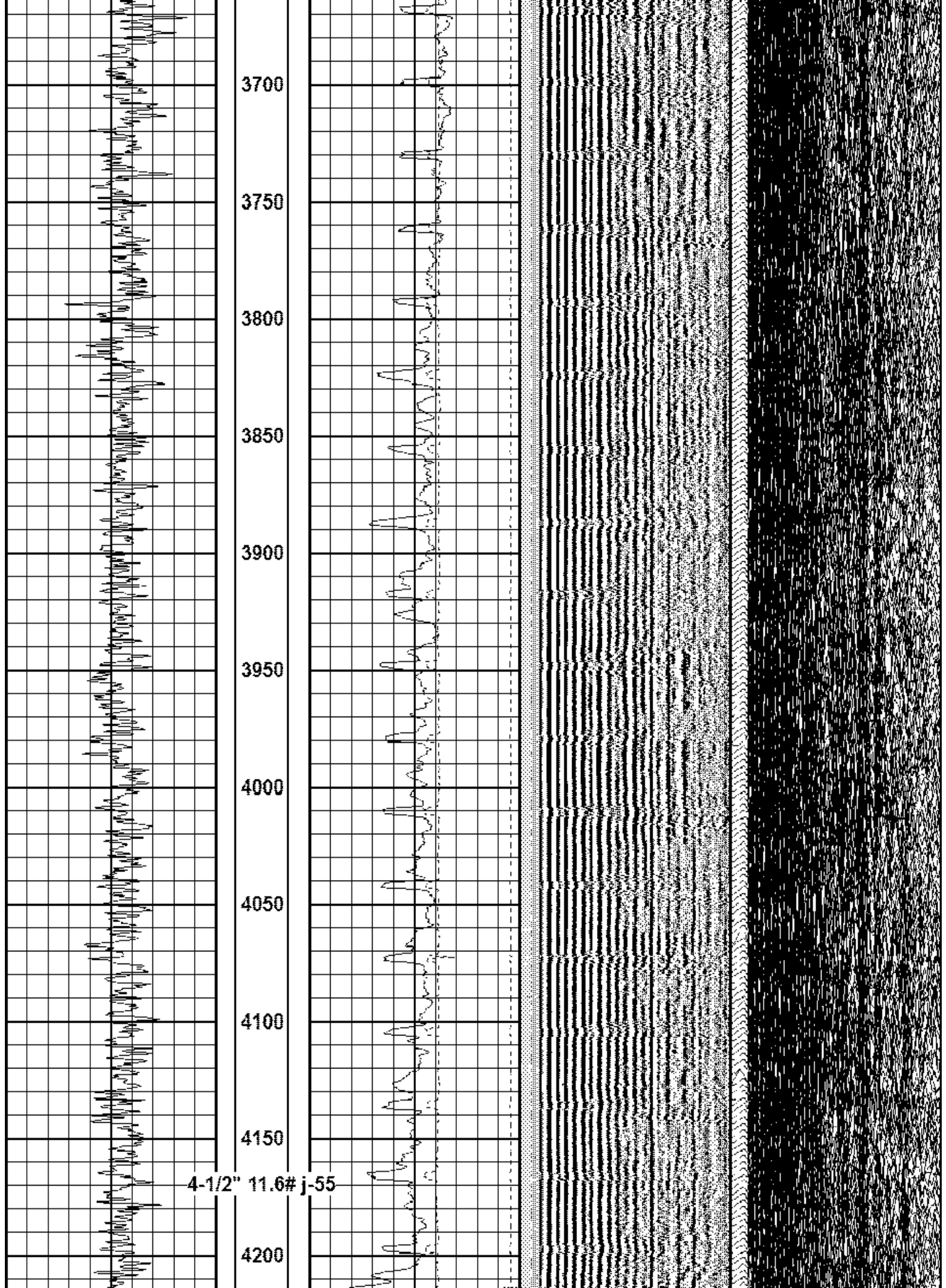




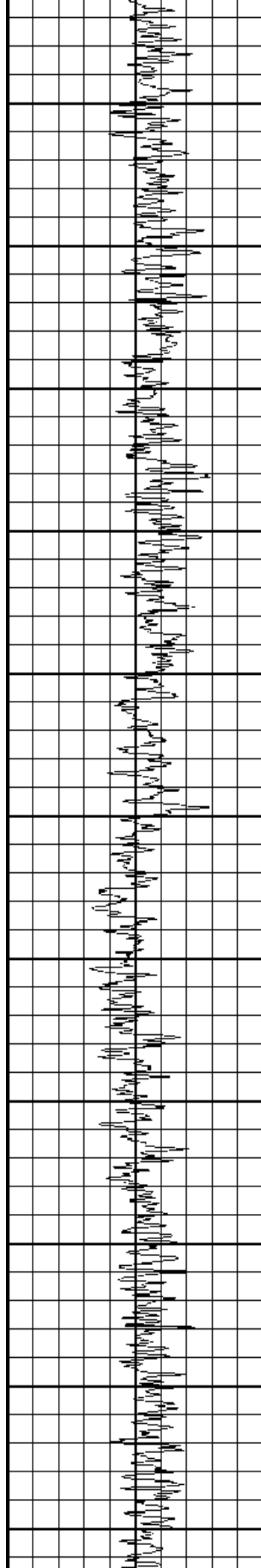








4-1/2" 11.6# j-55



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4350

4400

4450

4500

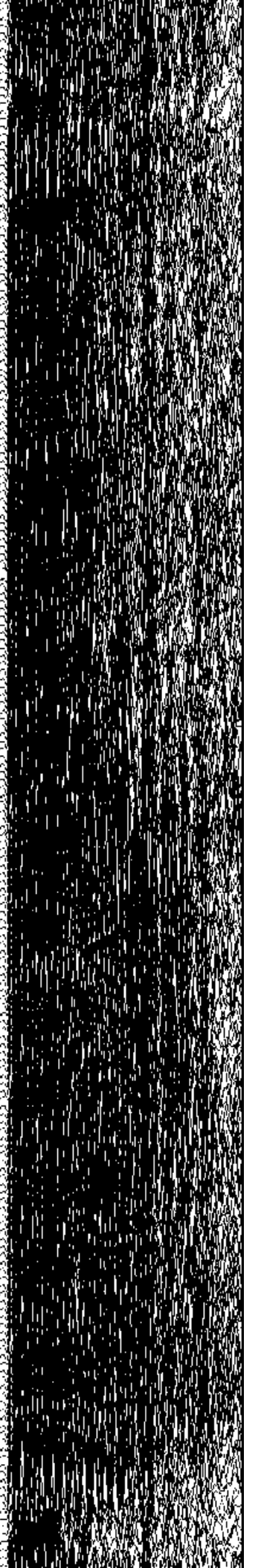
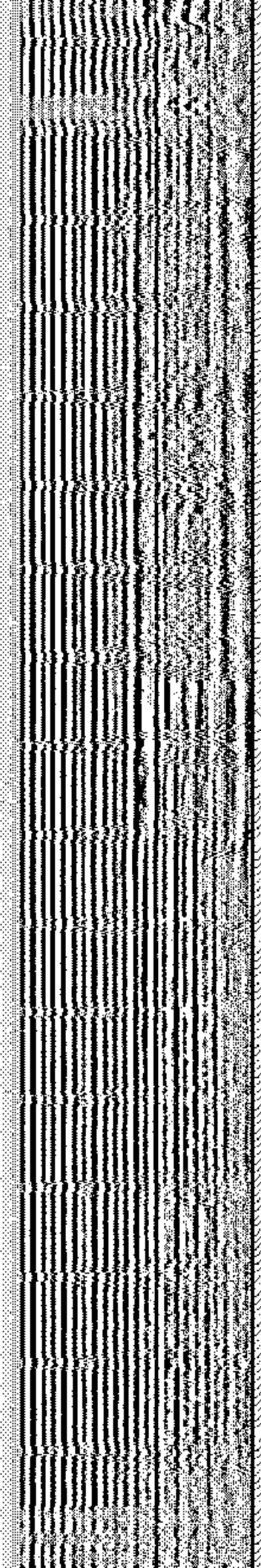
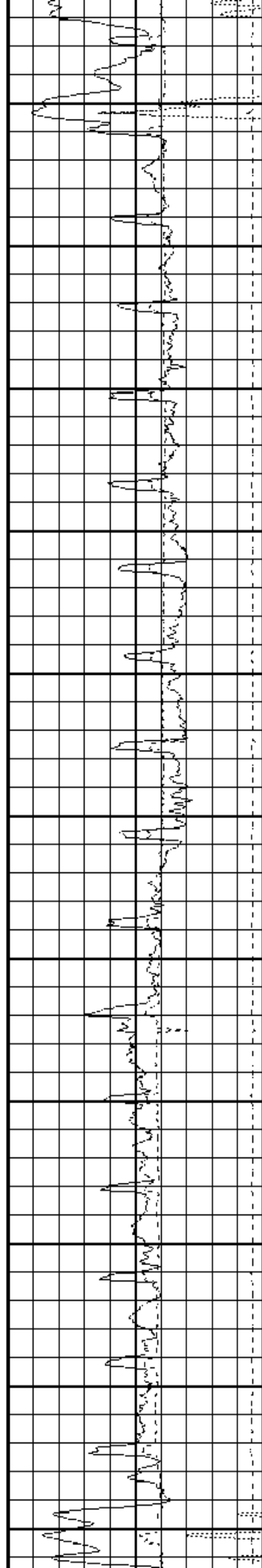
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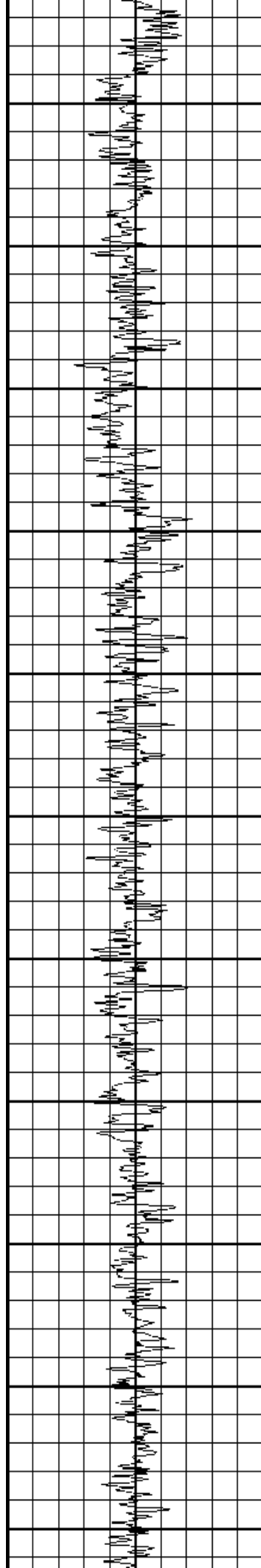
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4700

4750





4800

4850

4900

4950

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5050

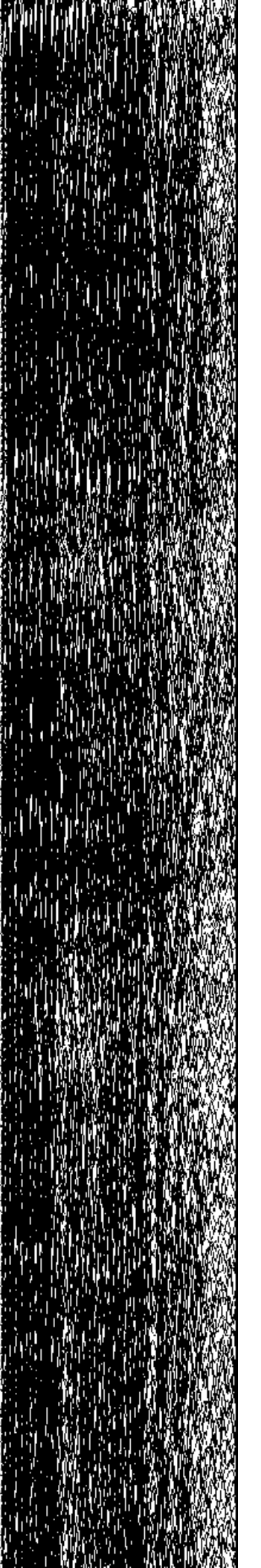
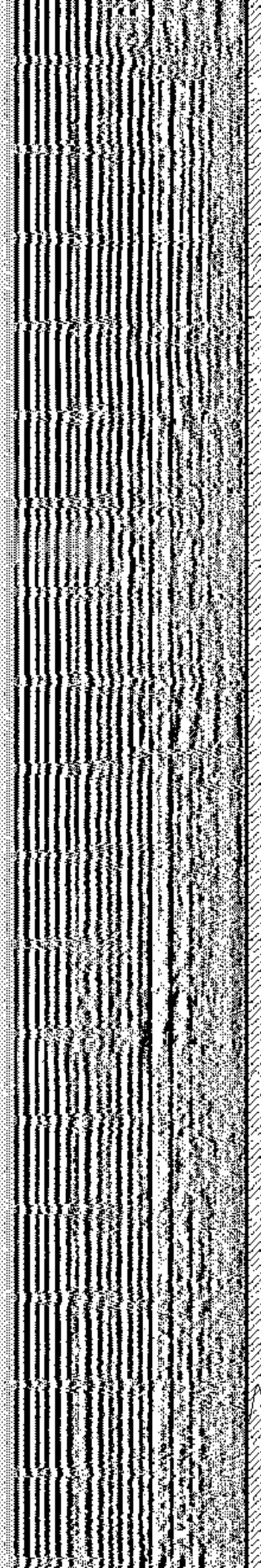
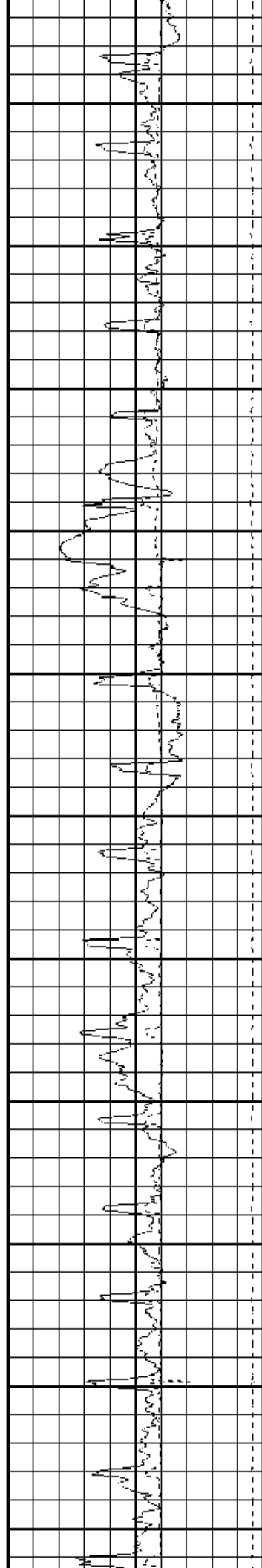
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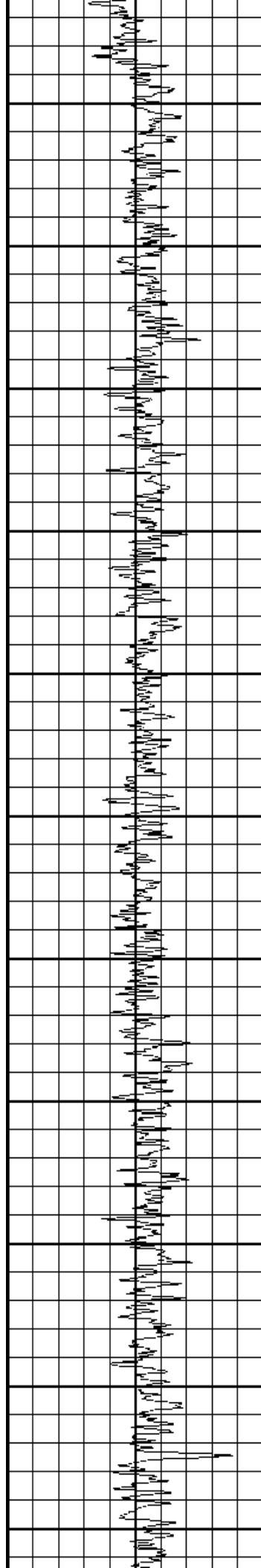
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5200

5250

5300





5350

5400

5450

5500

5550

5600

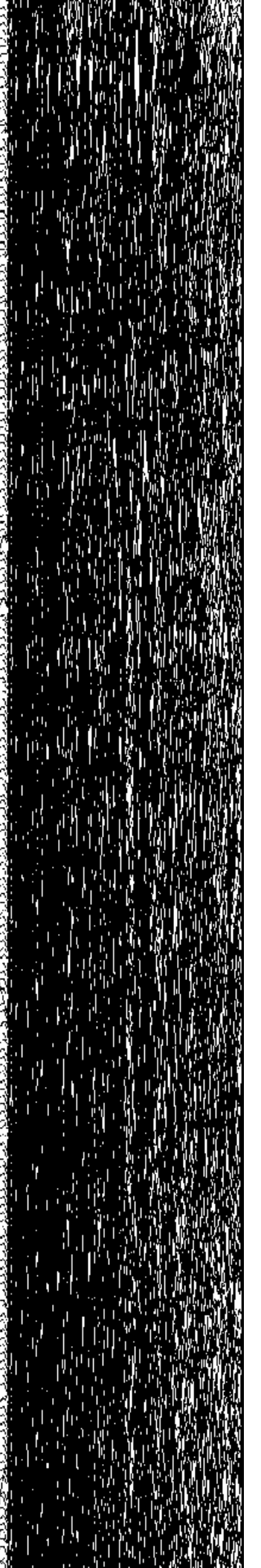
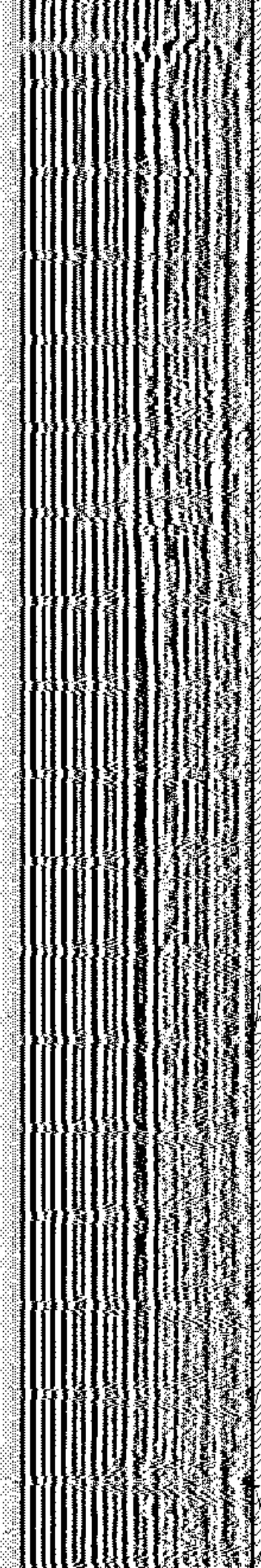
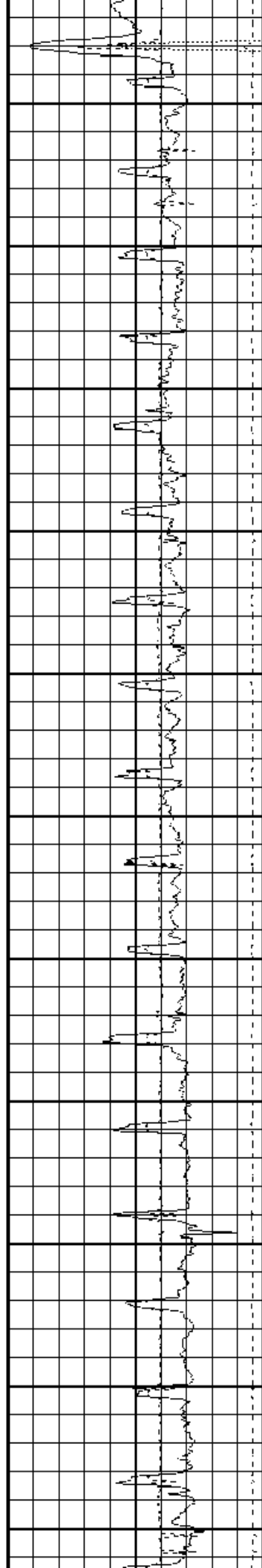
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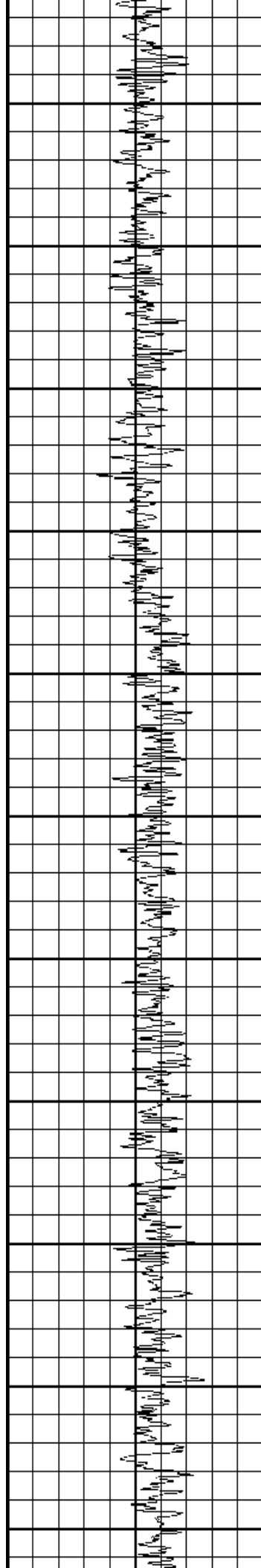
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5800

5850





5900

5950

6000

6050

6100

6150

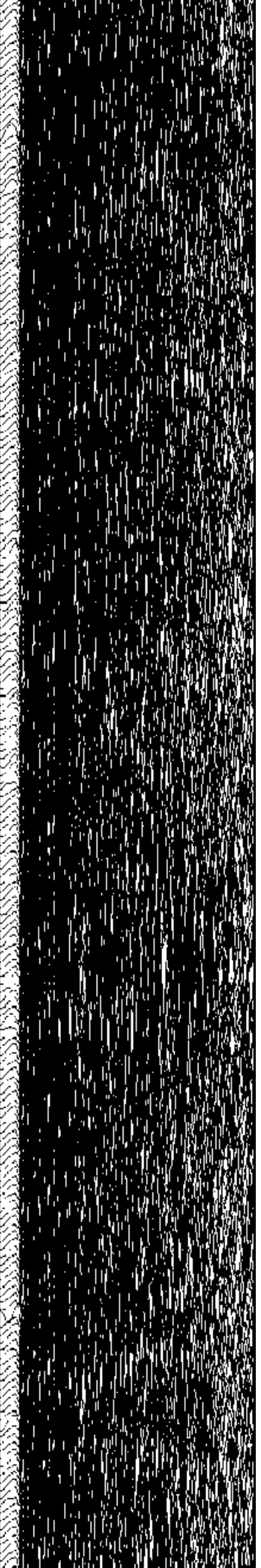
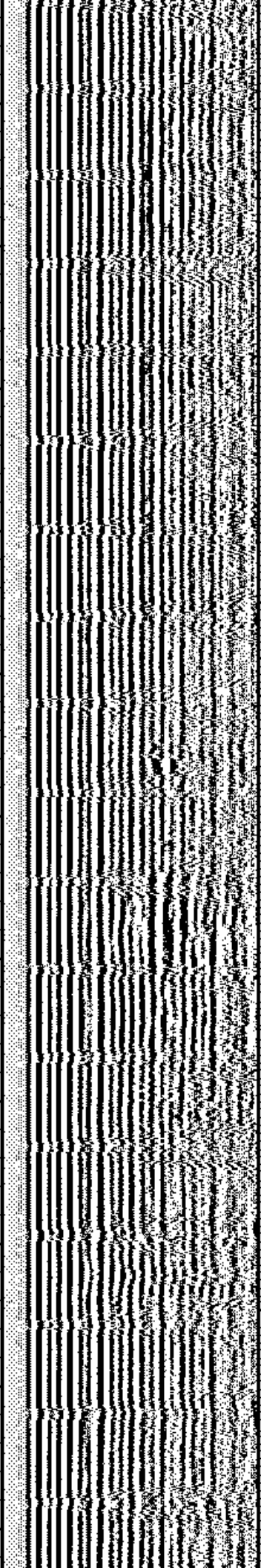
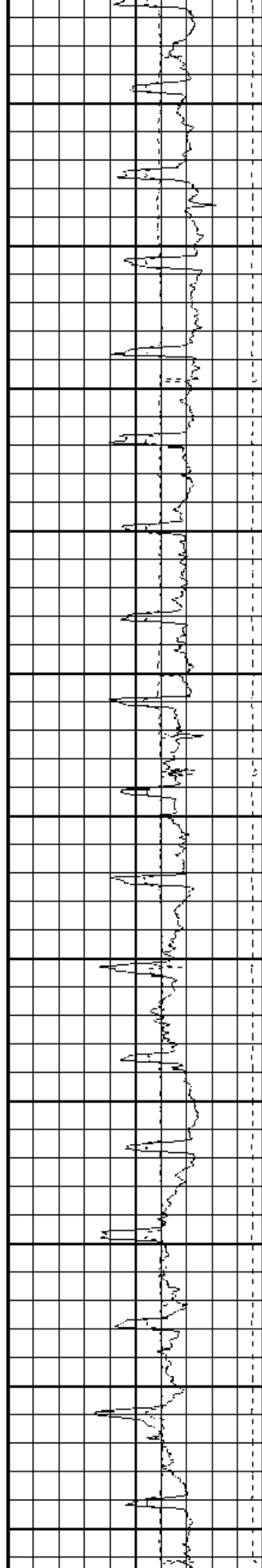
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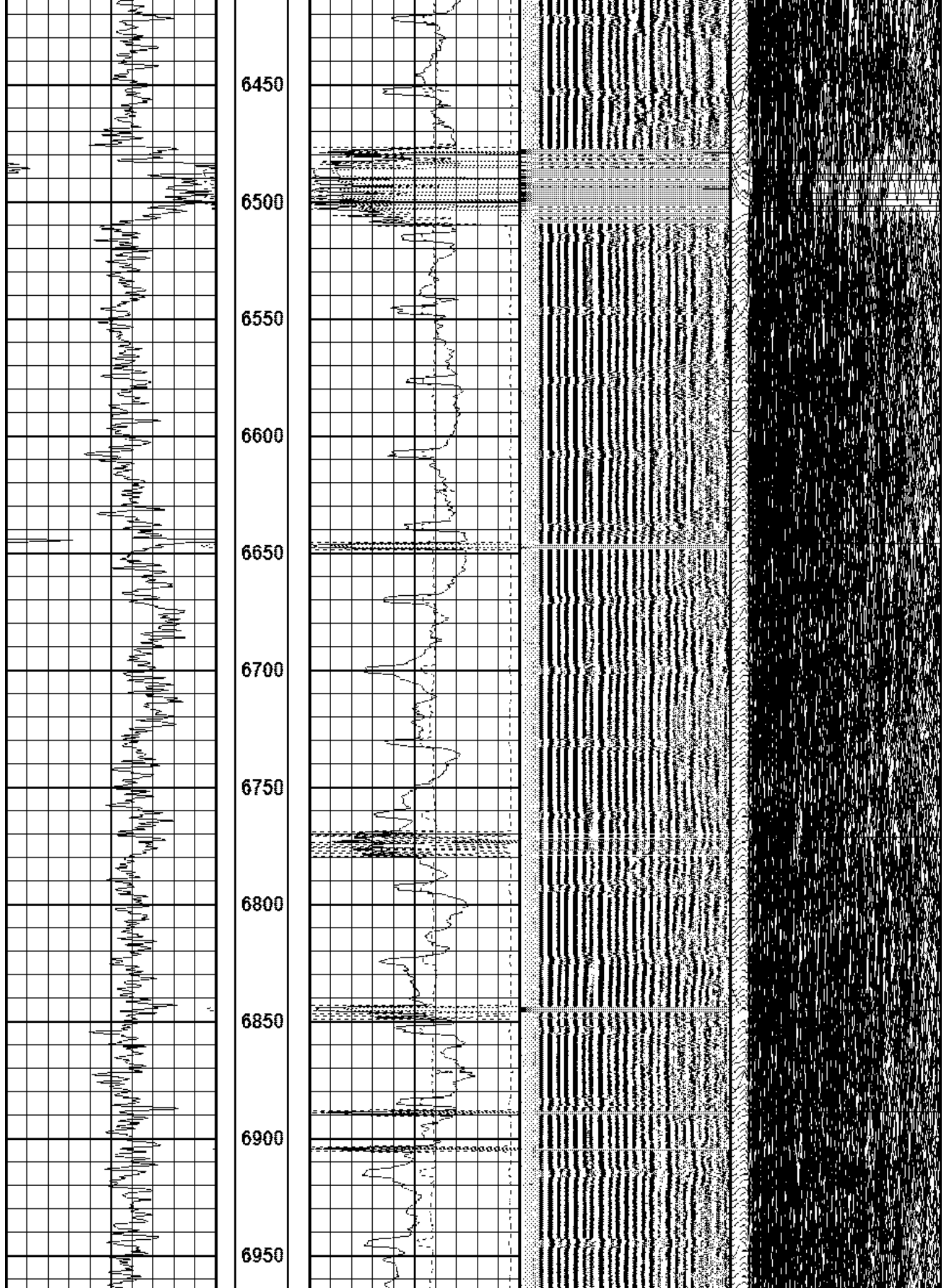
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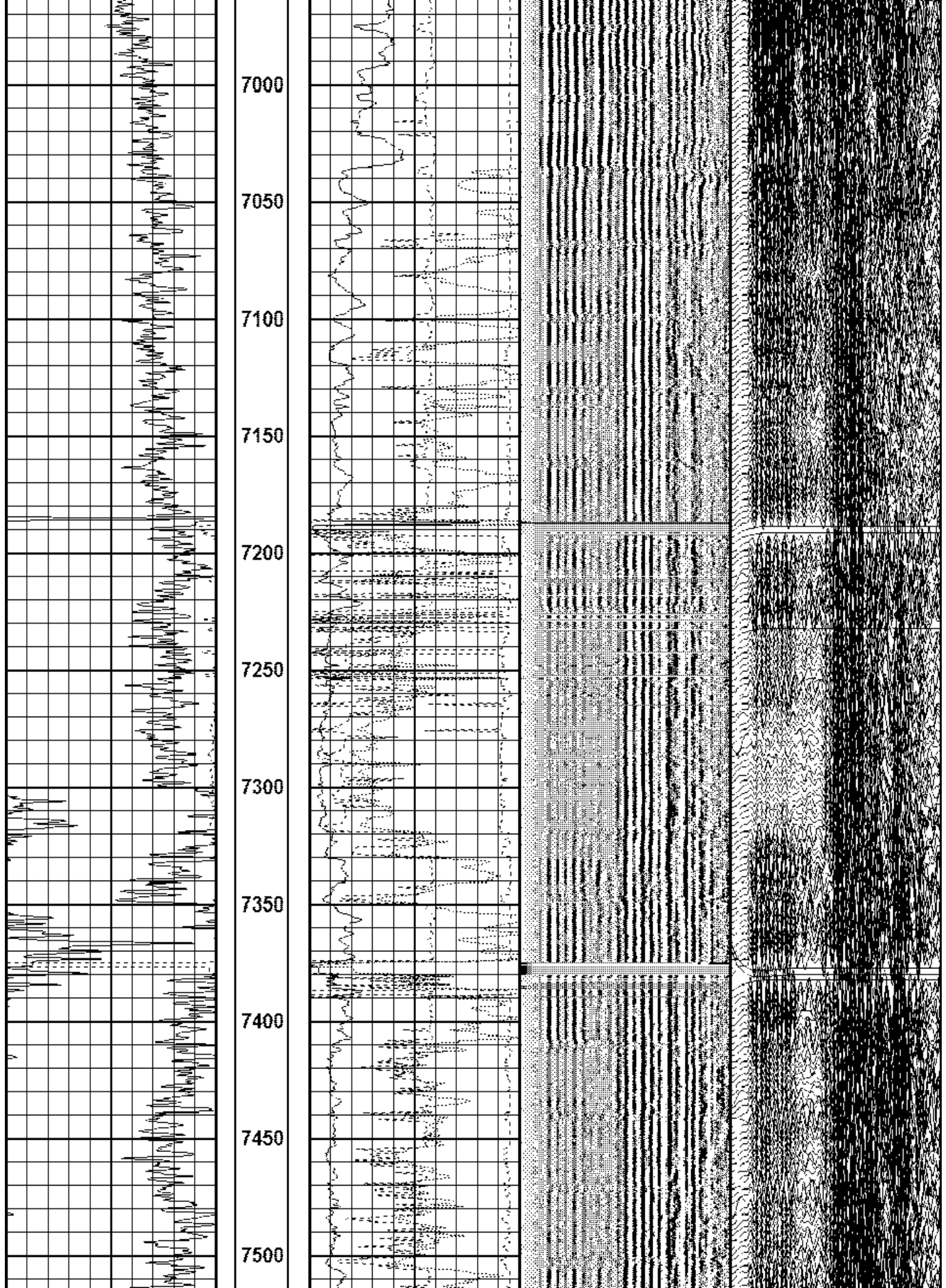
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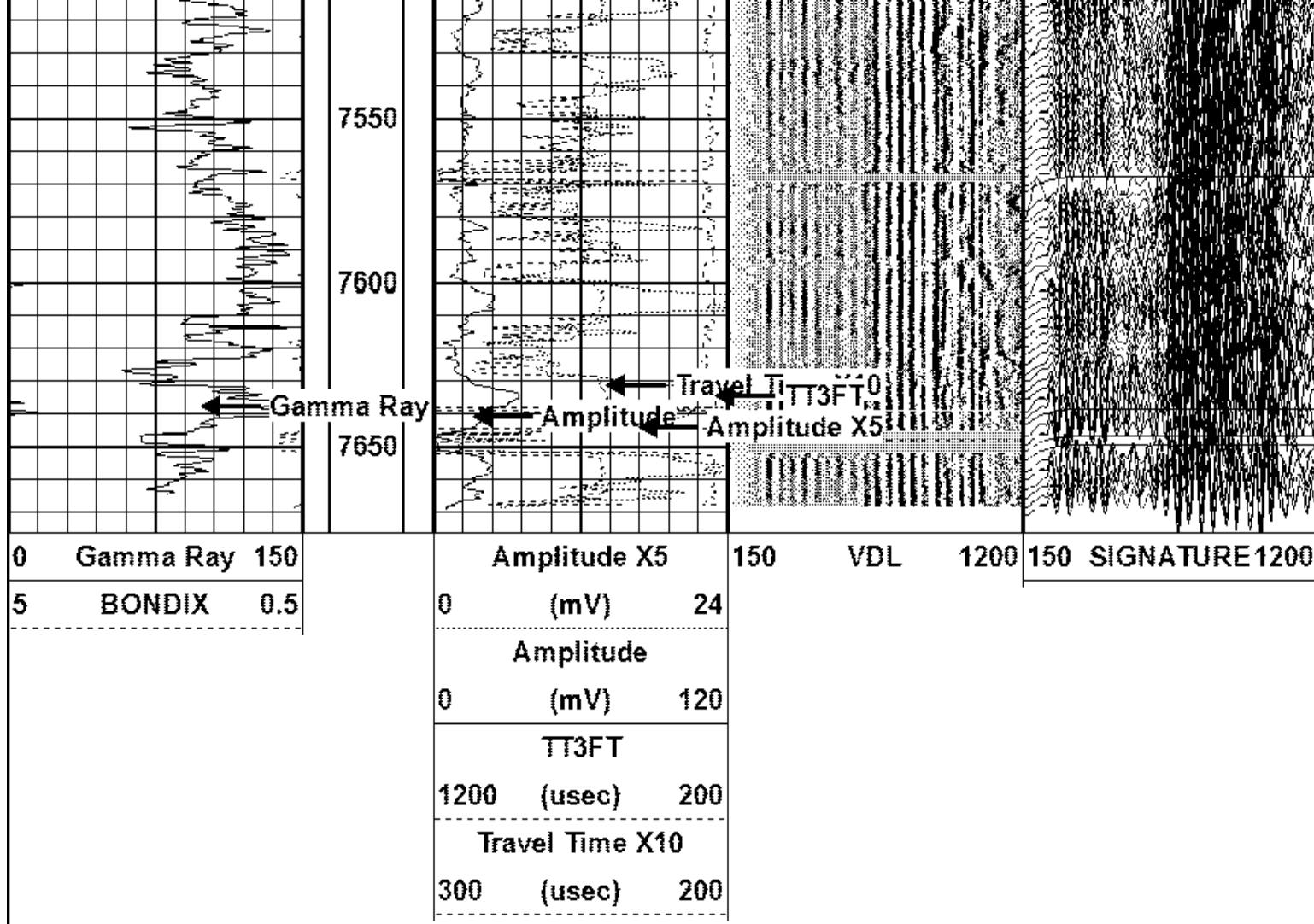




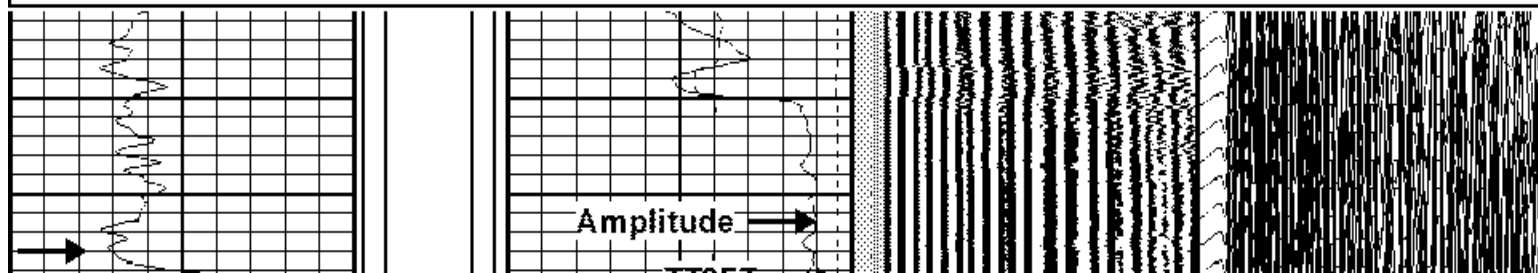
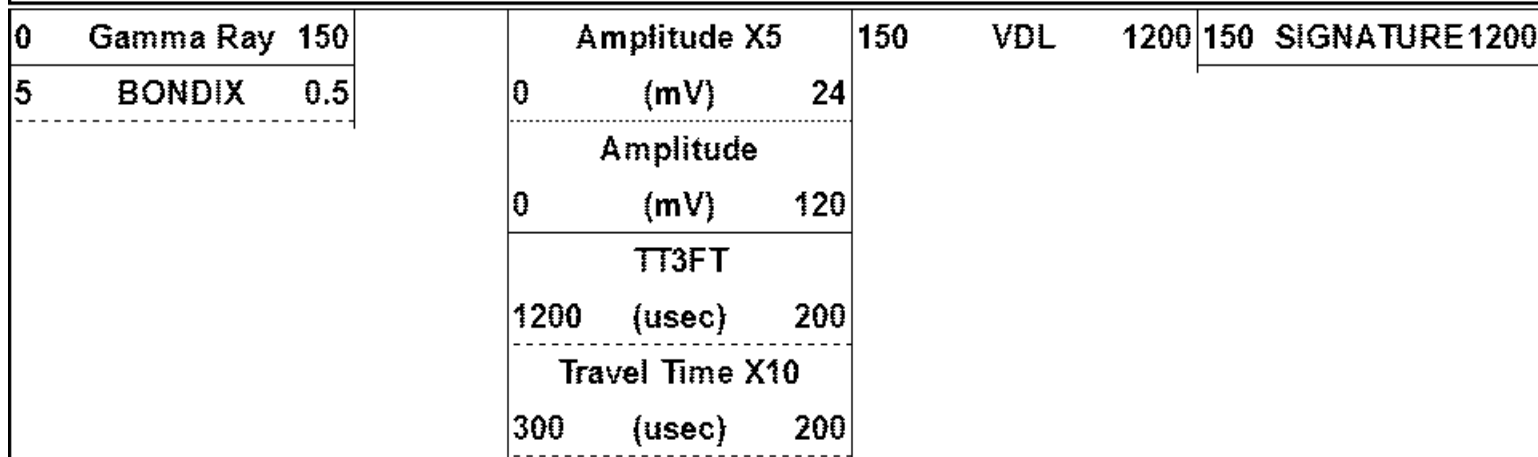








Database File encana e unit1.db  
 Dataset Pathname pass3  
 Presentation Format cbl4inpl  
 Dataset Creation Mon Jun 29 14:53:02 2015  
 Charted by Depth in Feet scaled 1:240



50  
Travel Time X10

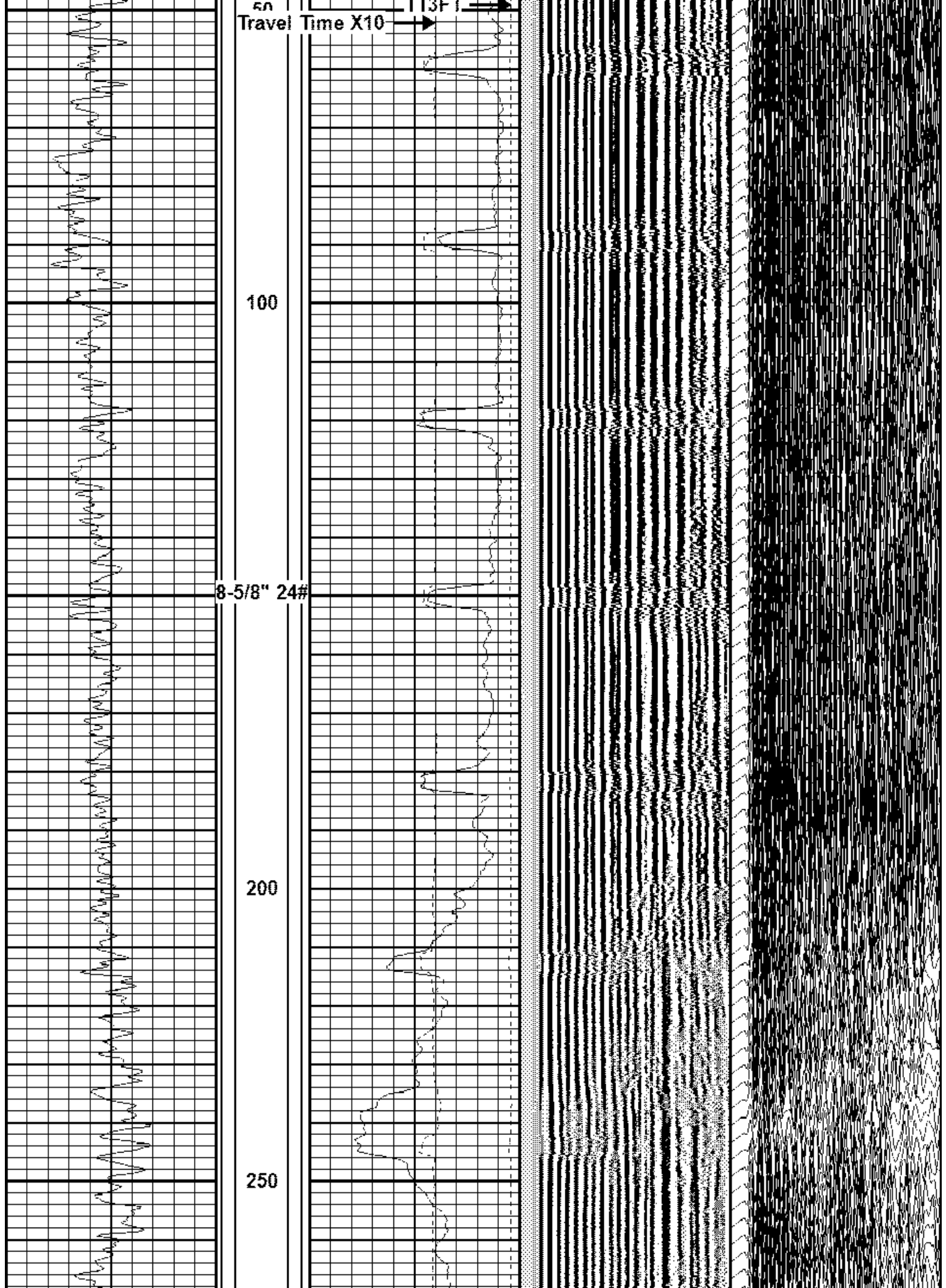
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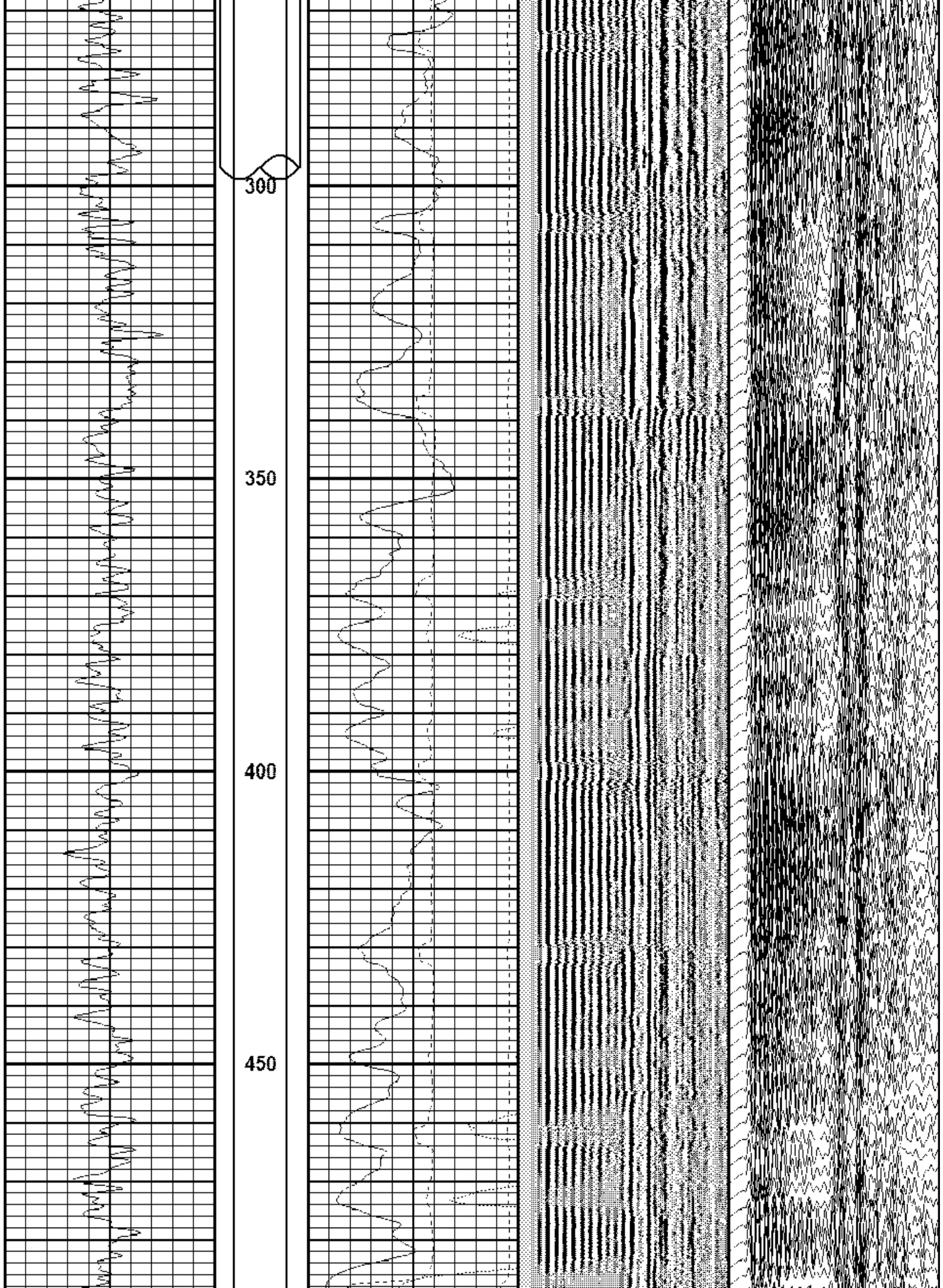
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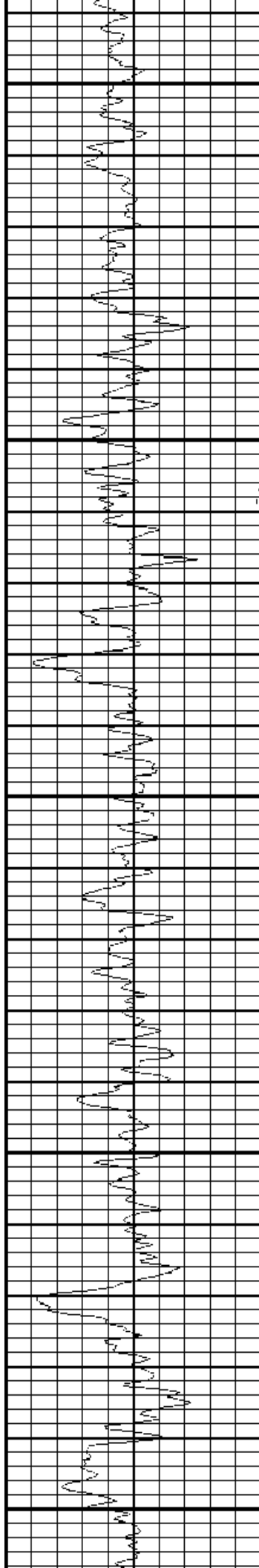
8-5/8" 24#

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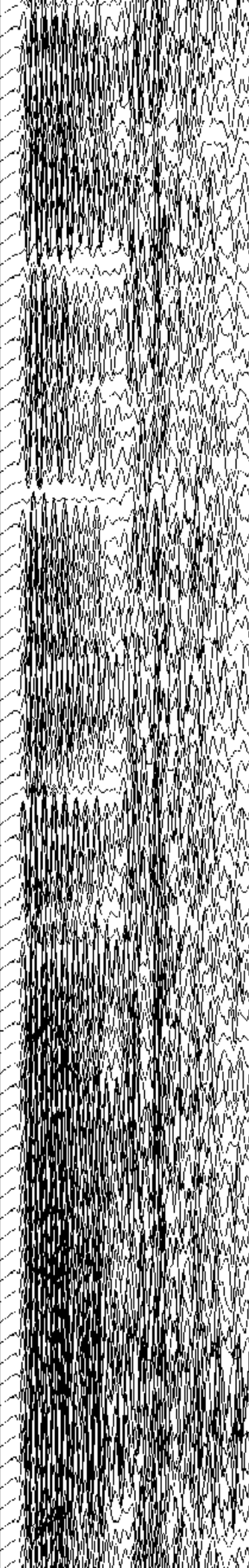
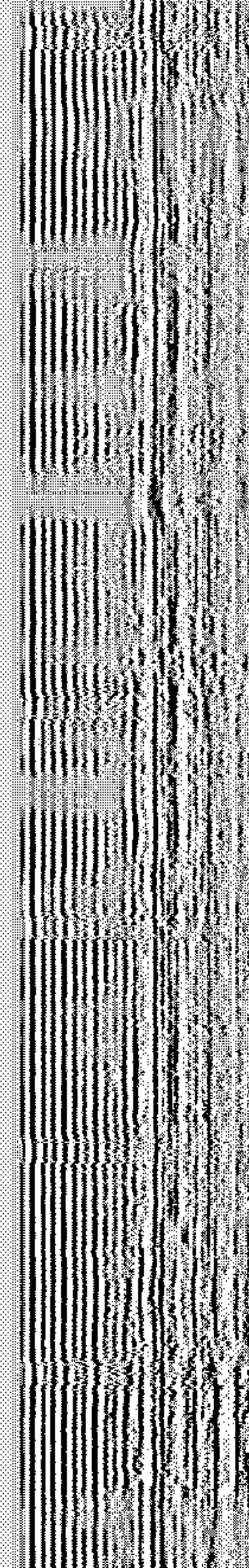
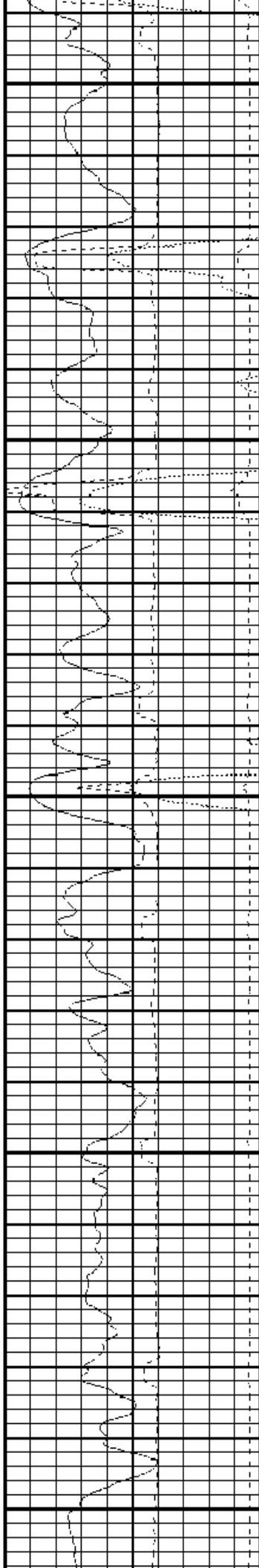
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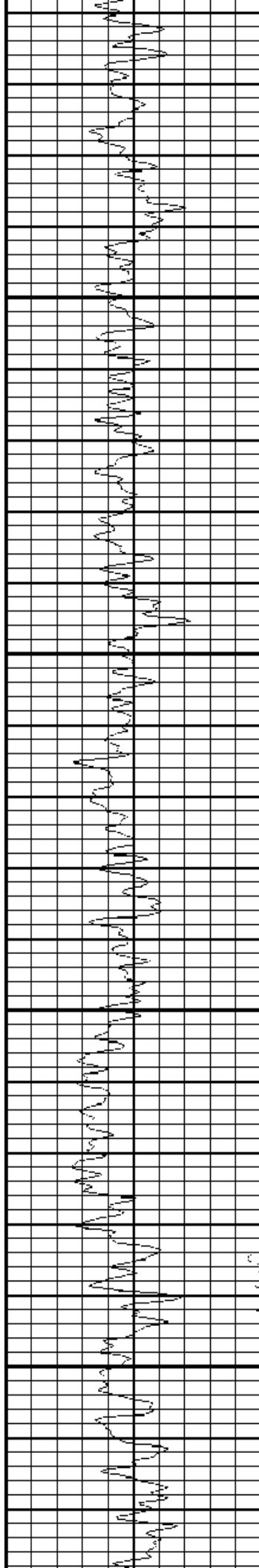
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700





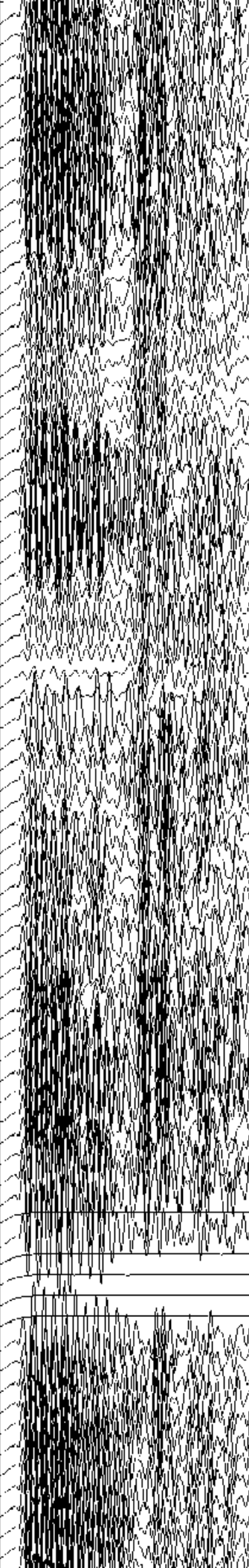
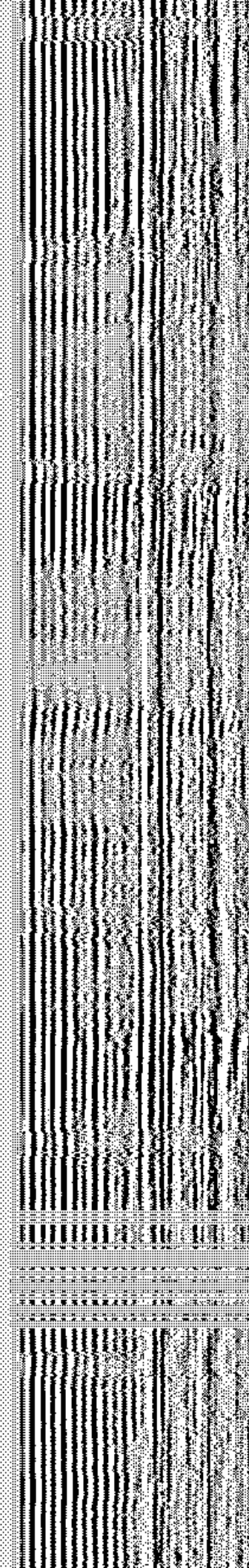
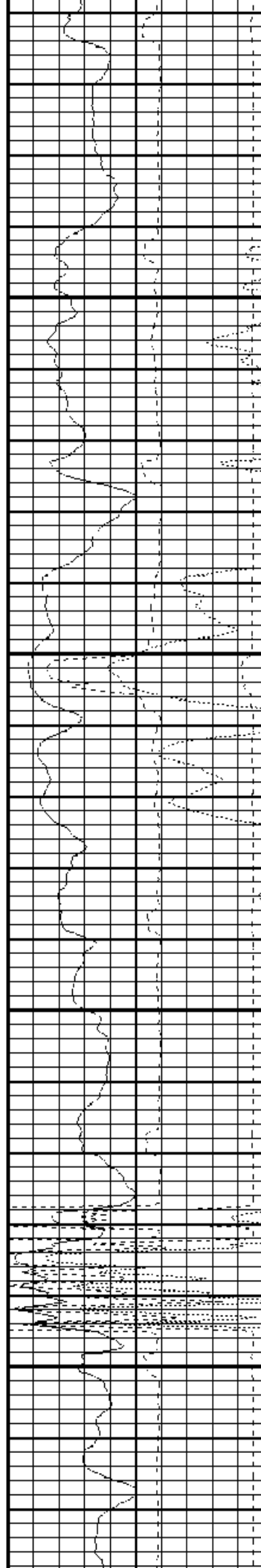


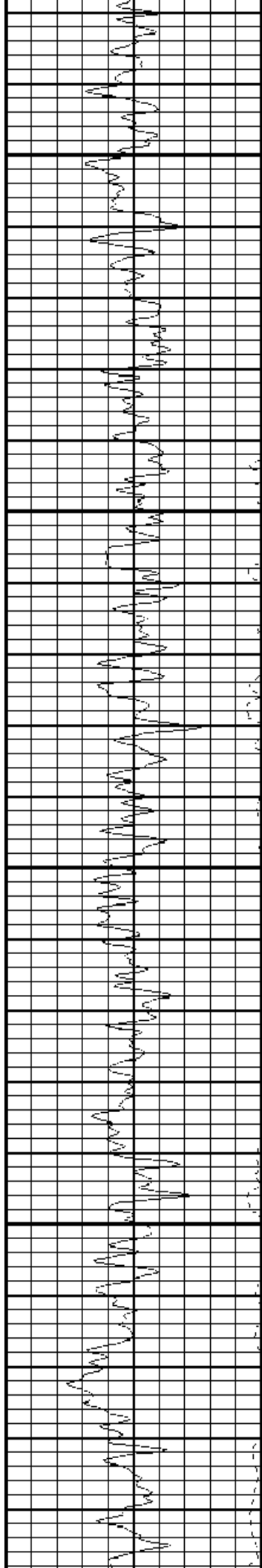
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800

850

900



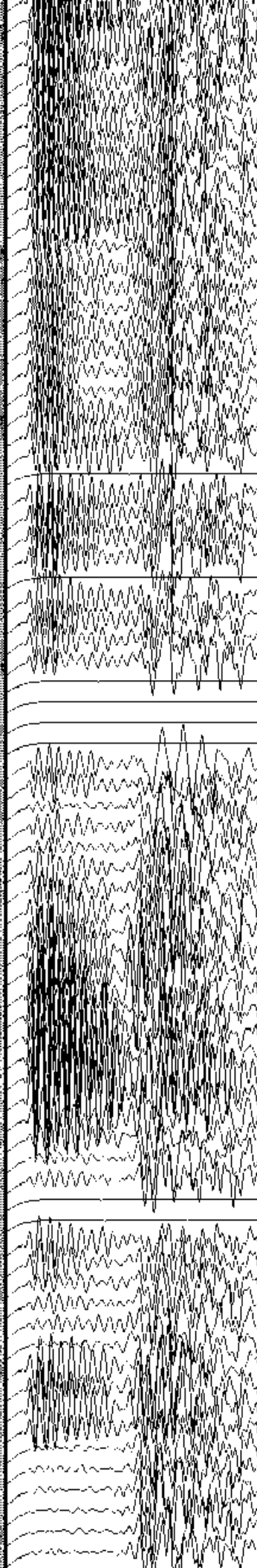
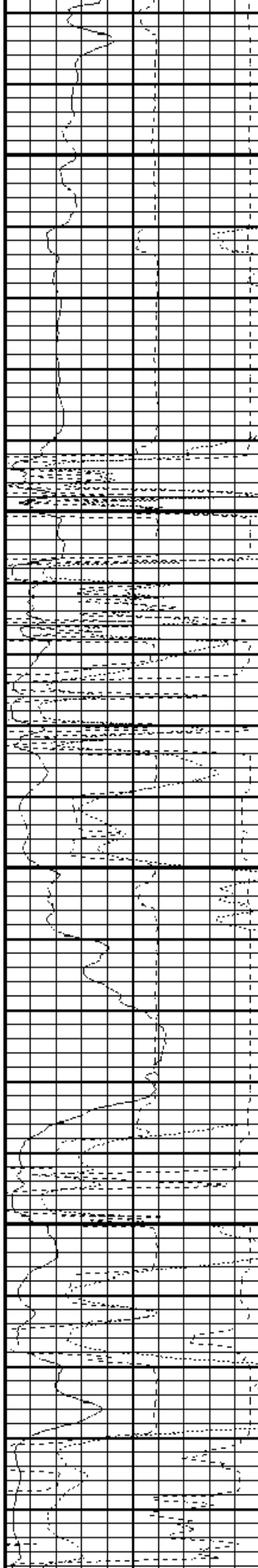


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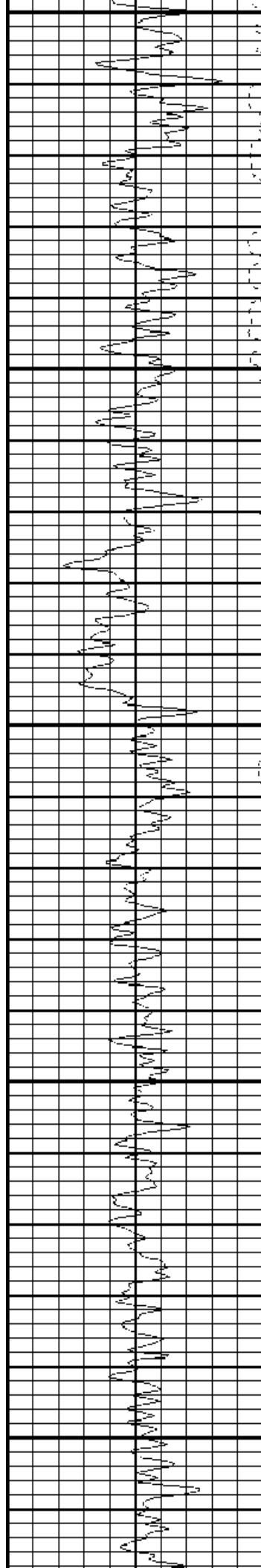
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1050

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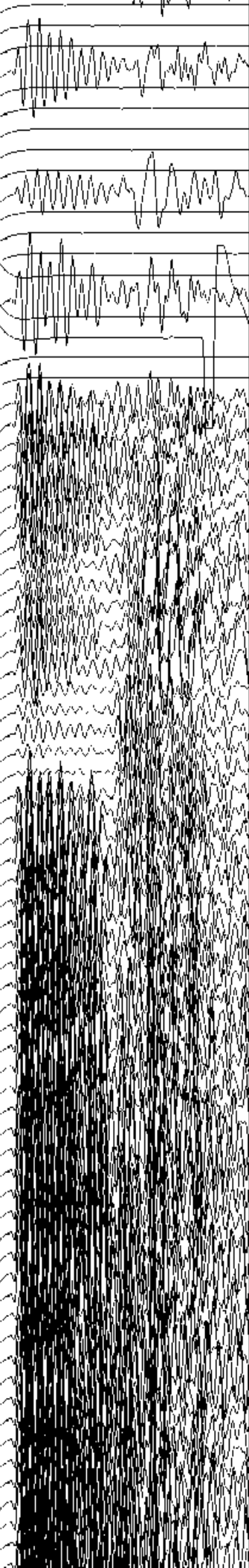
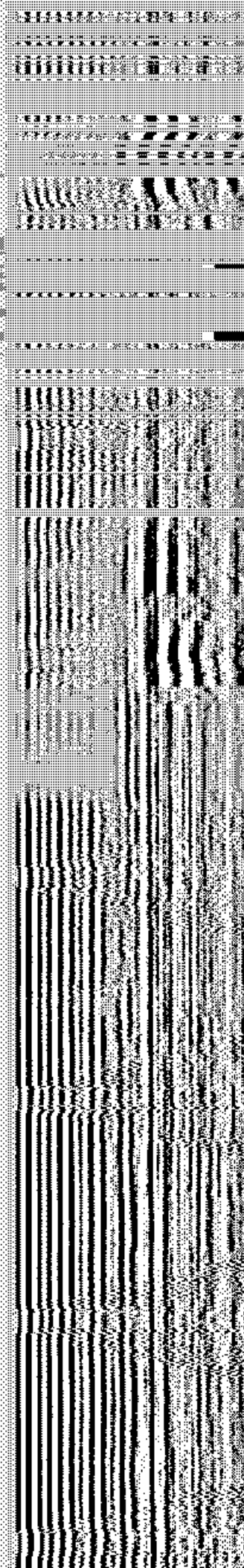
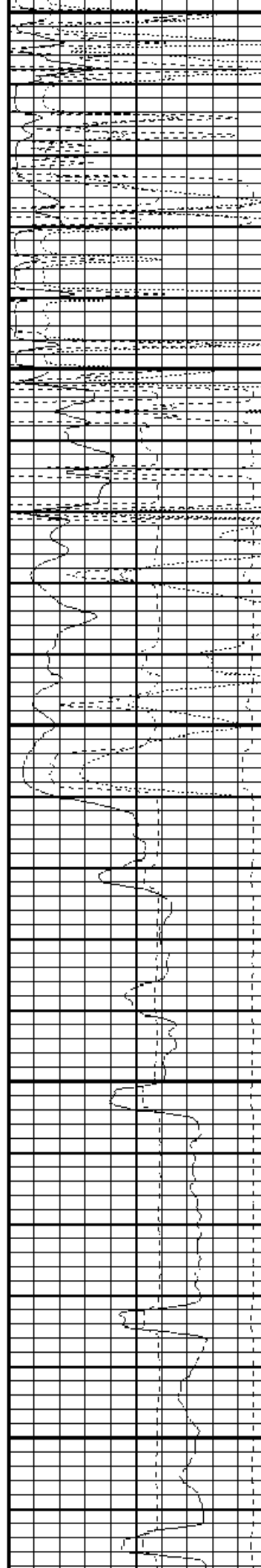
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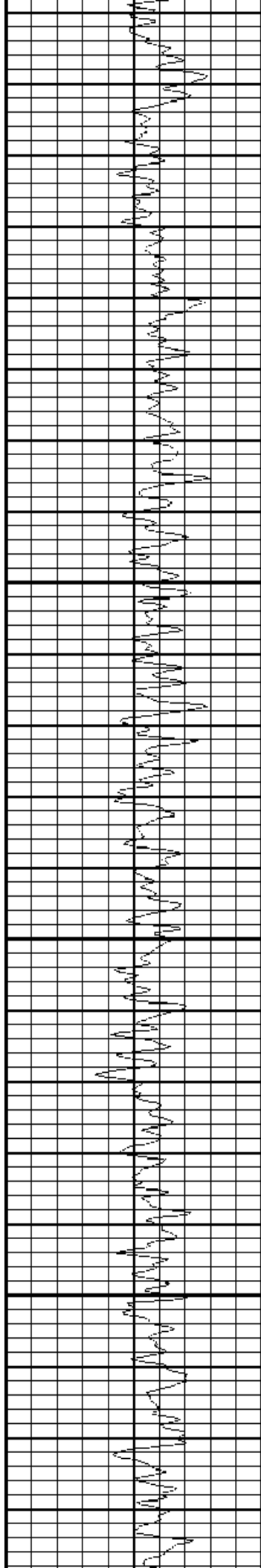
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1250

1300

1350



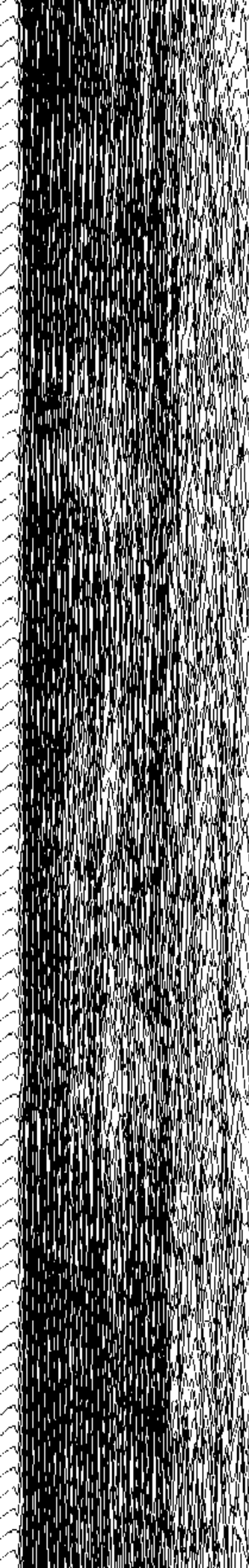
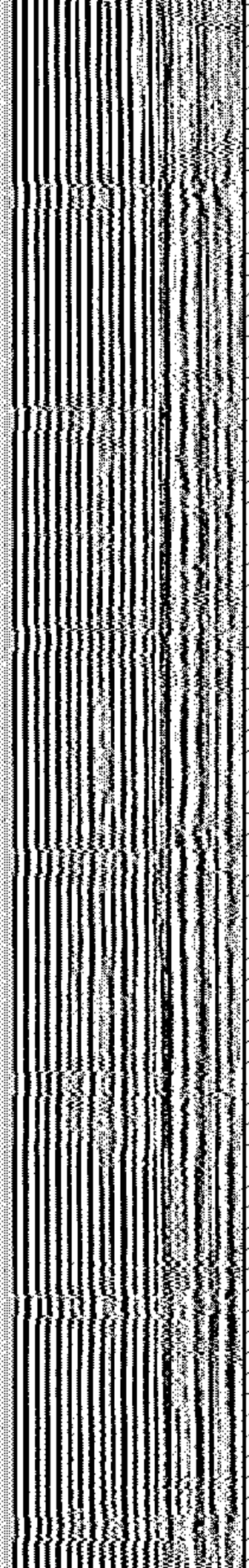
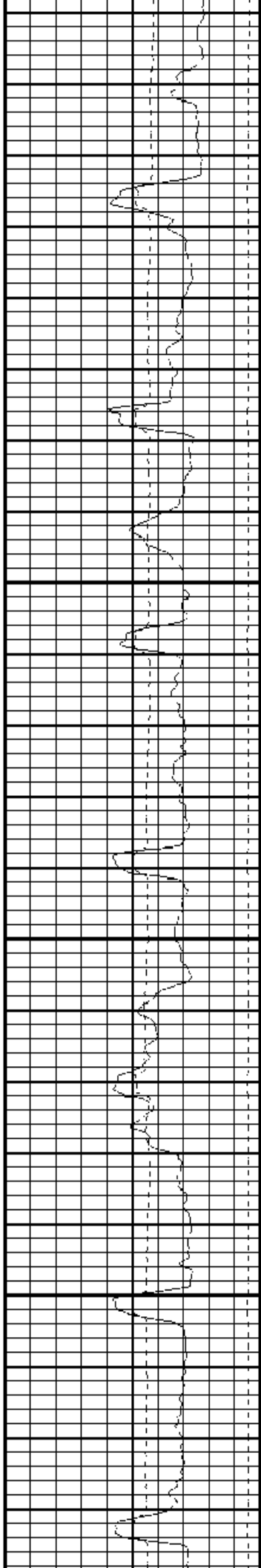


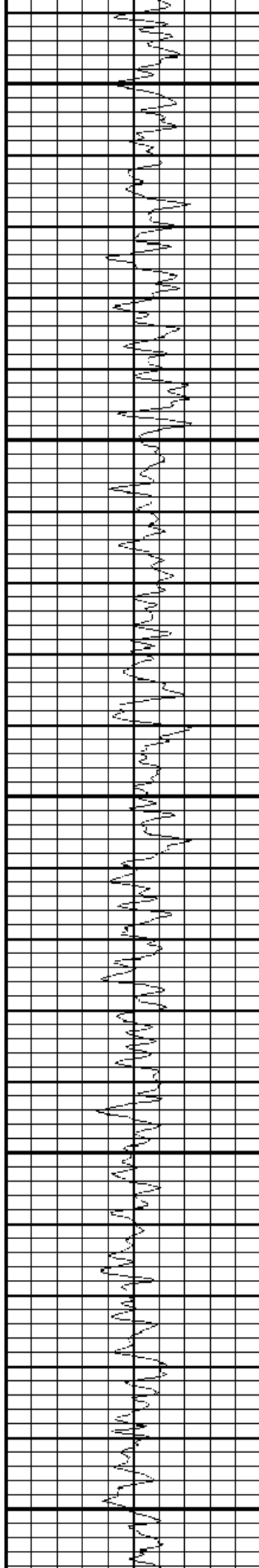
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1550





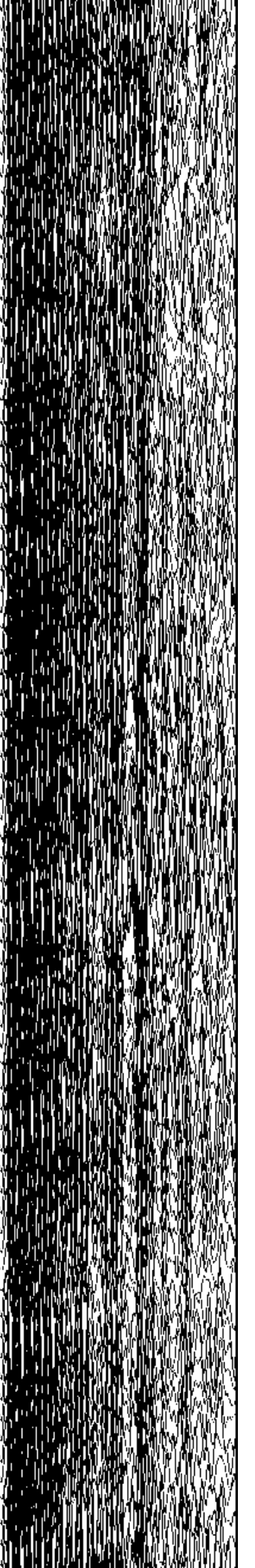
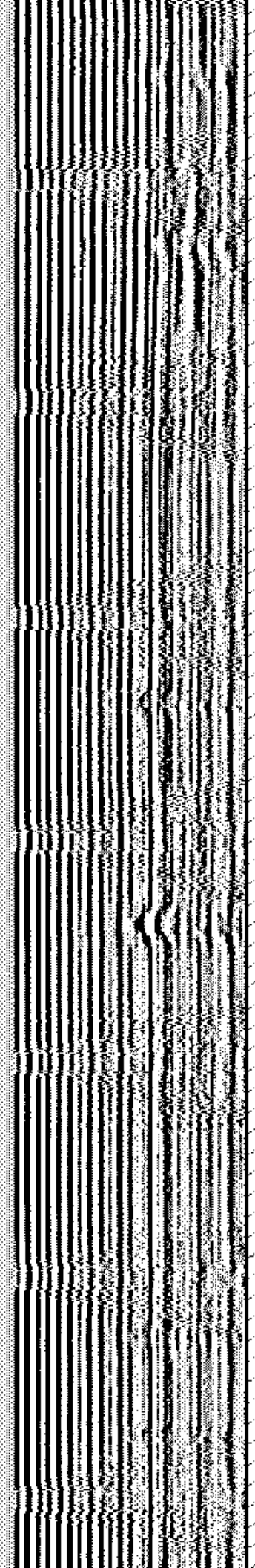
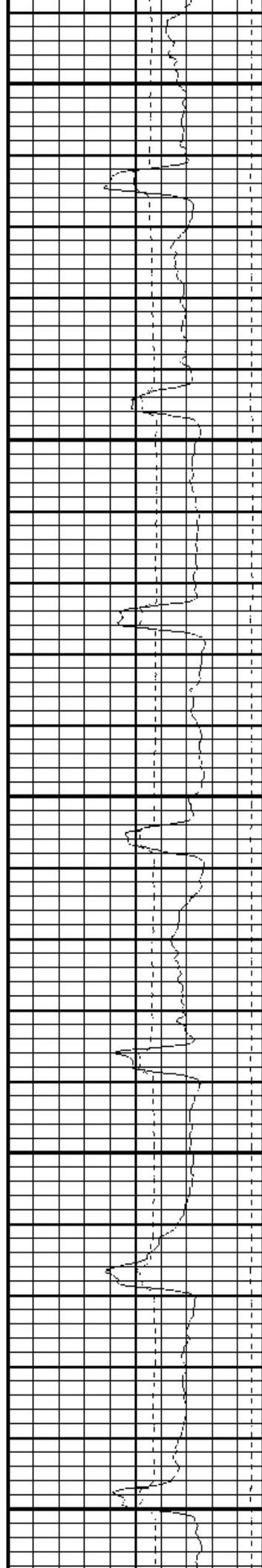
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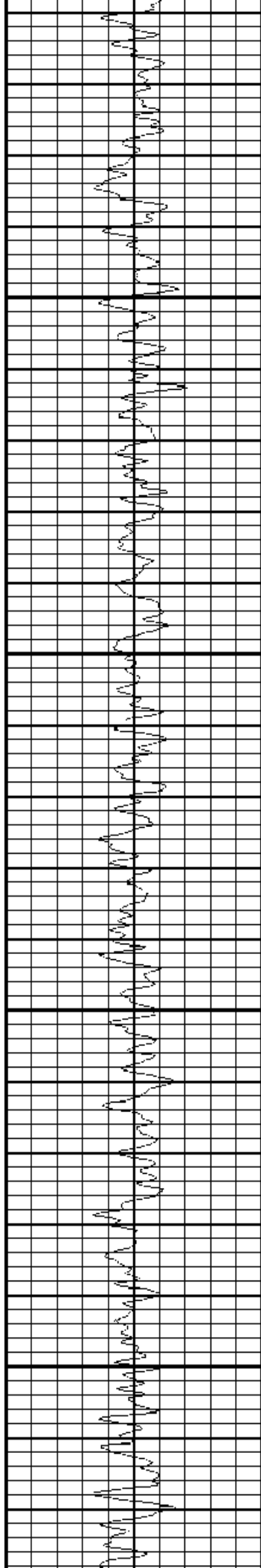
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1700

1750

1800



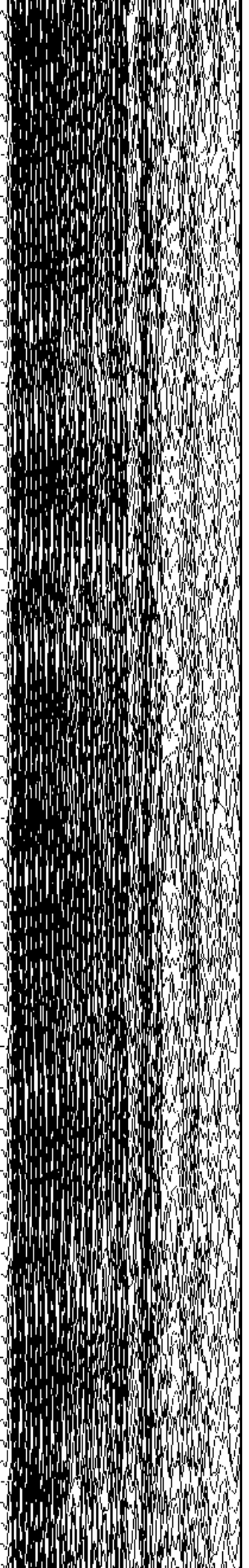
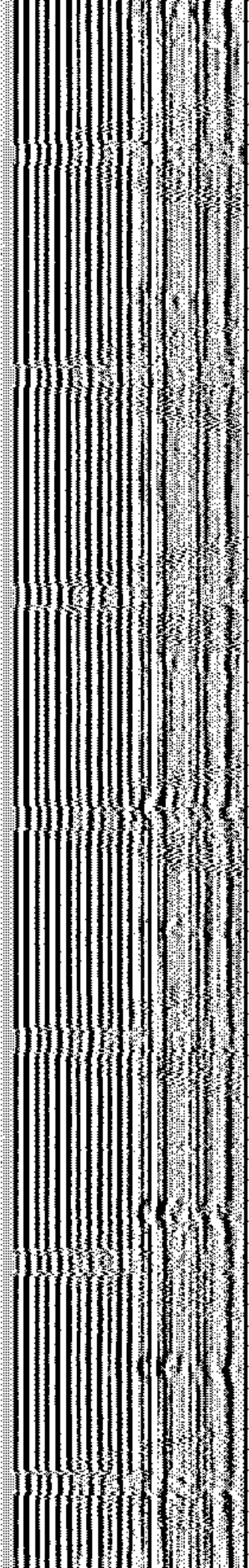
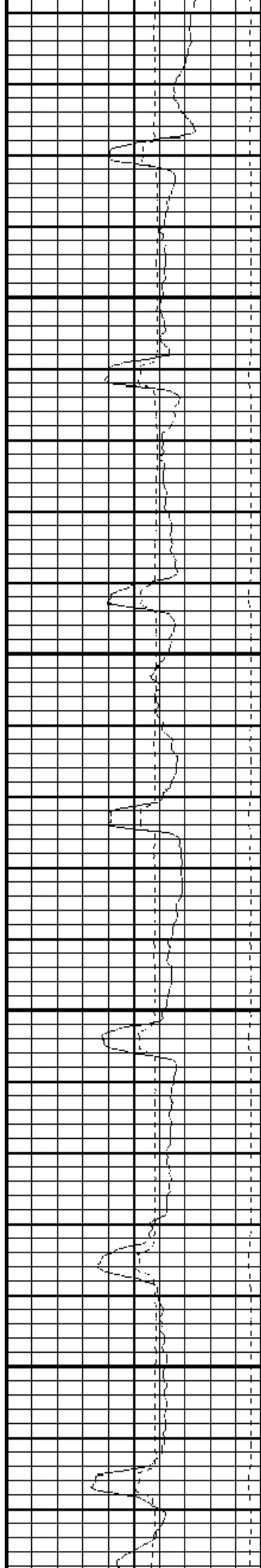


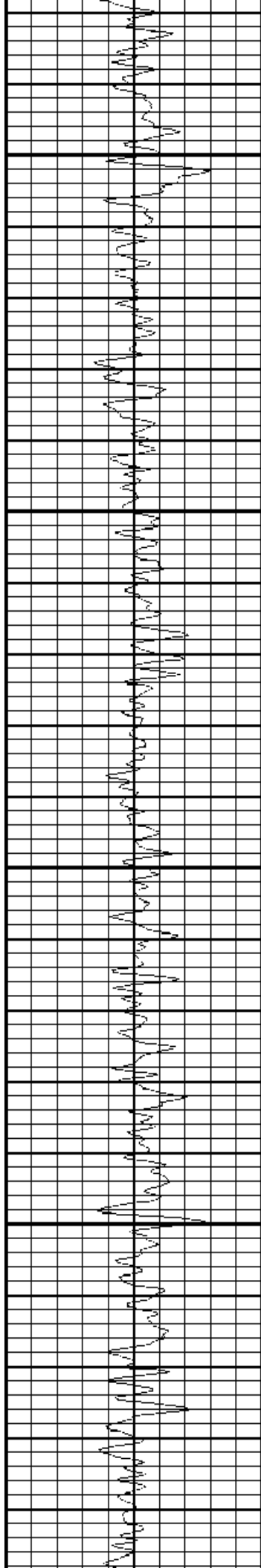
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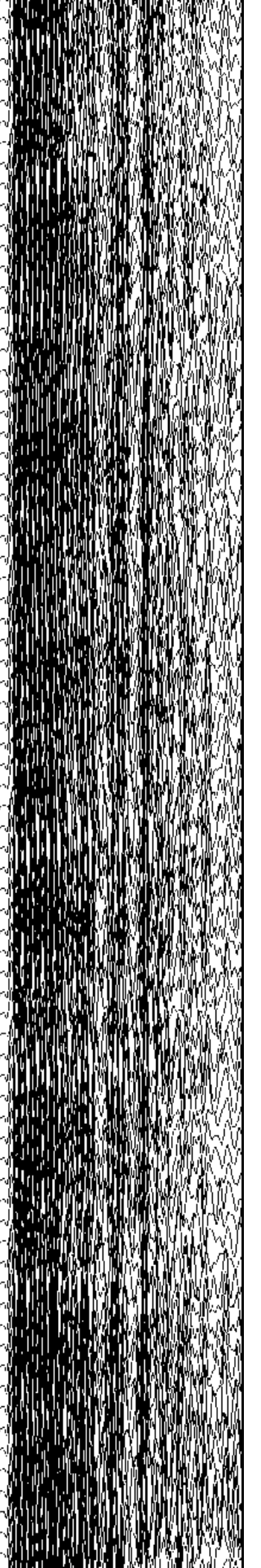
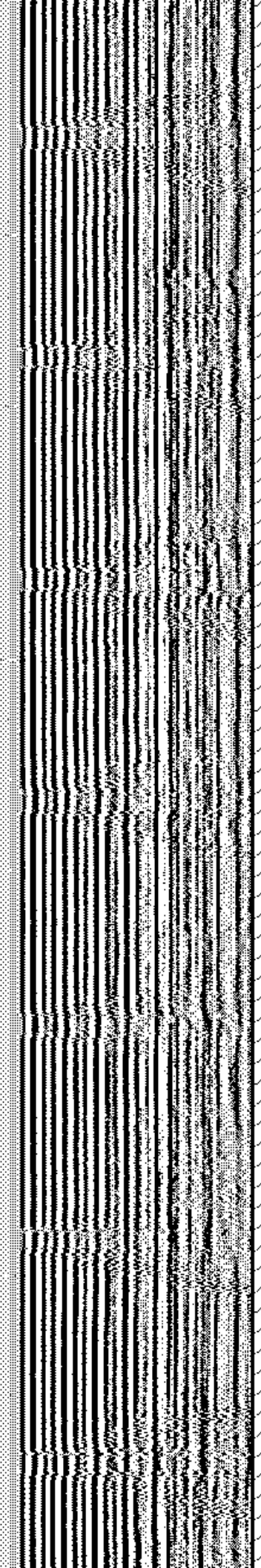
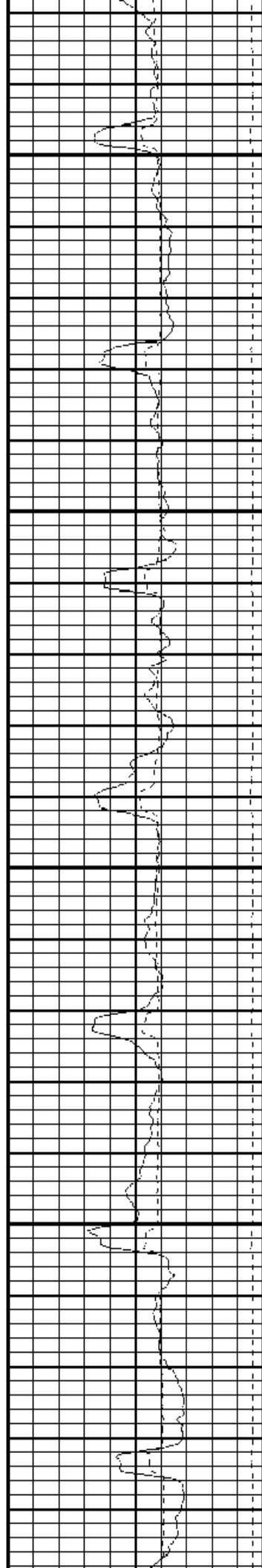


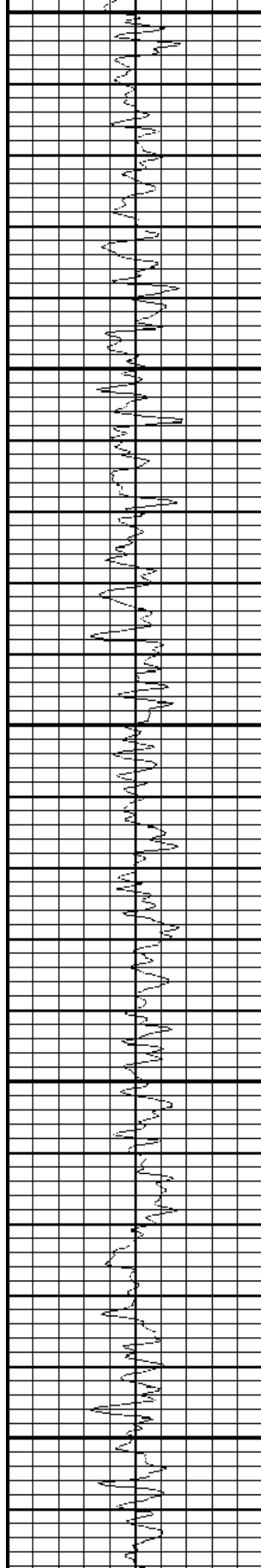
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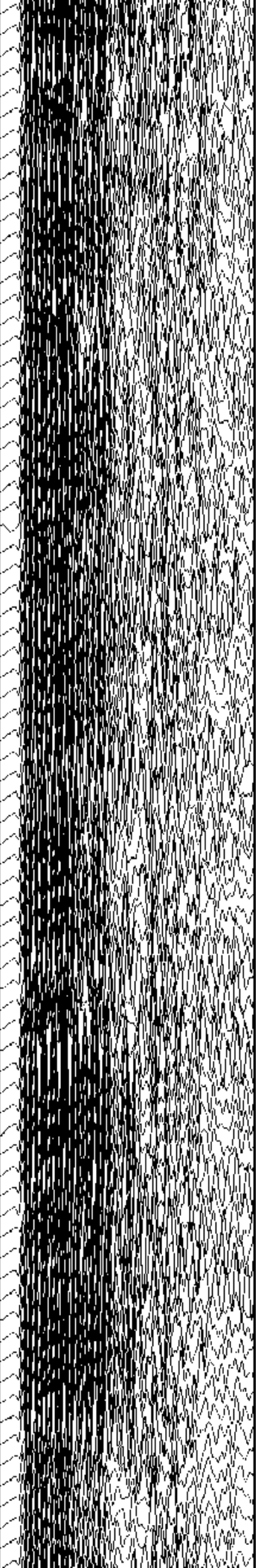
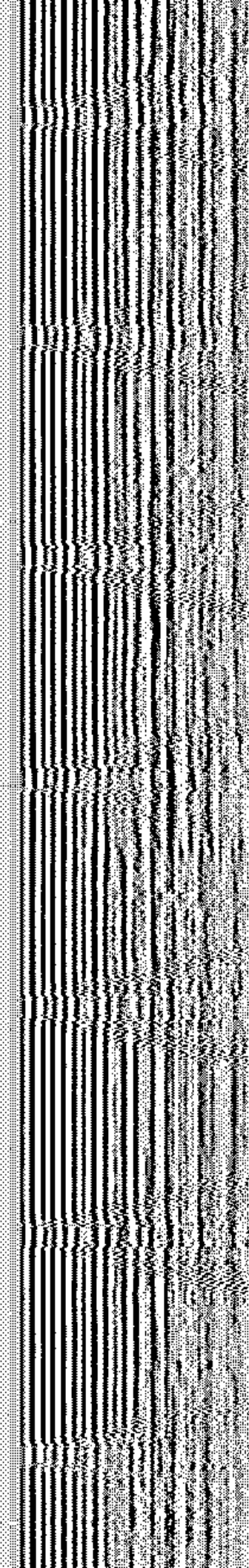
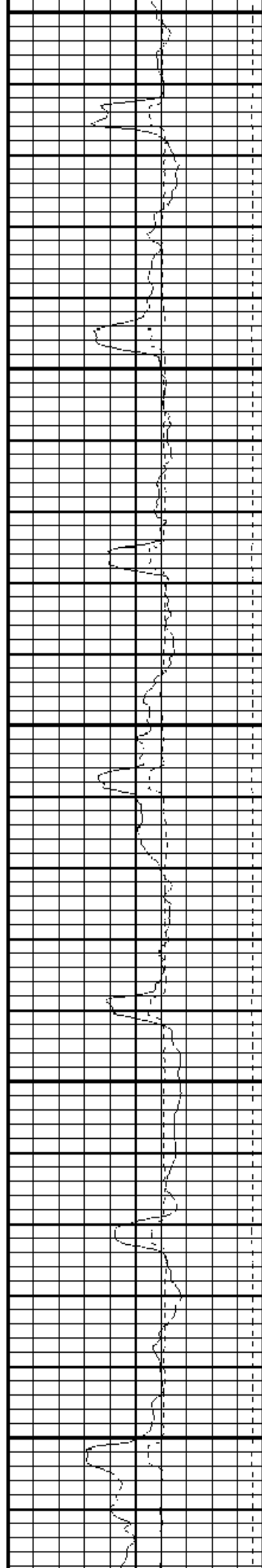
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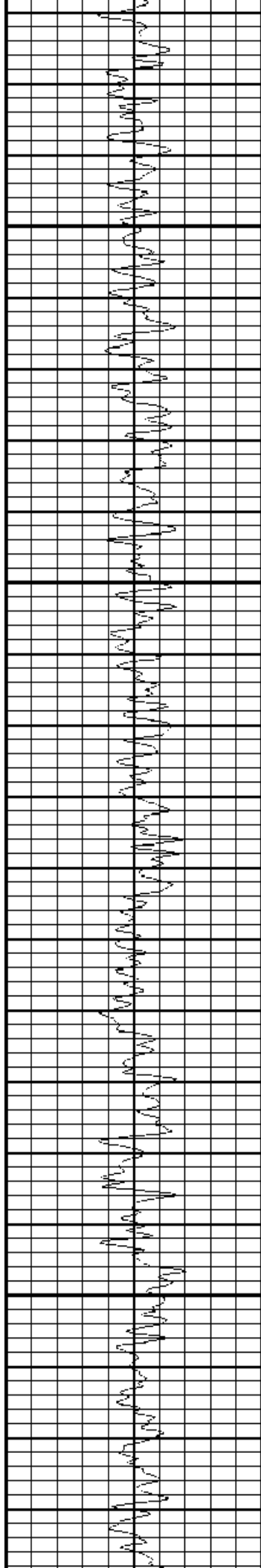
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2400

2450





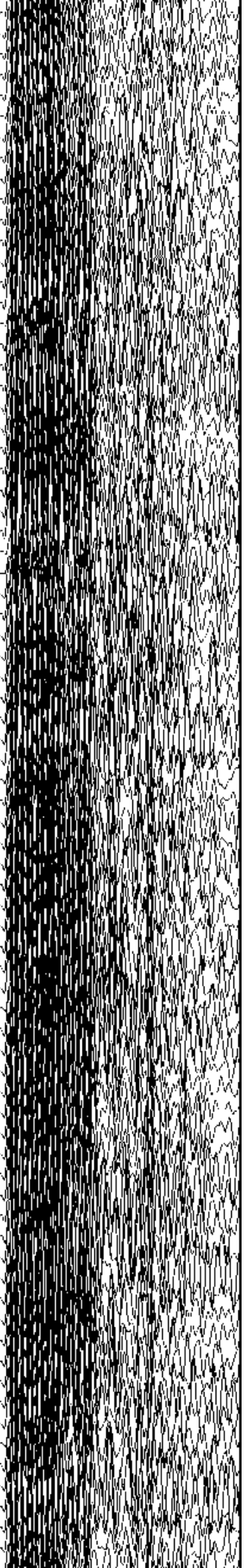
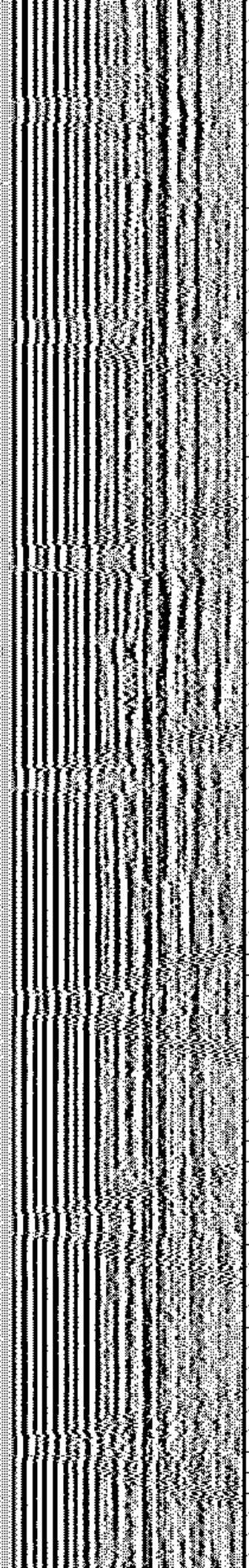
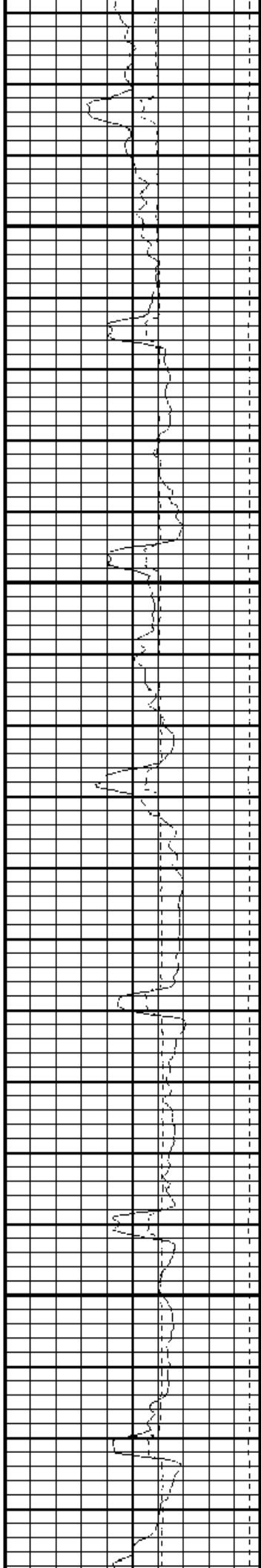


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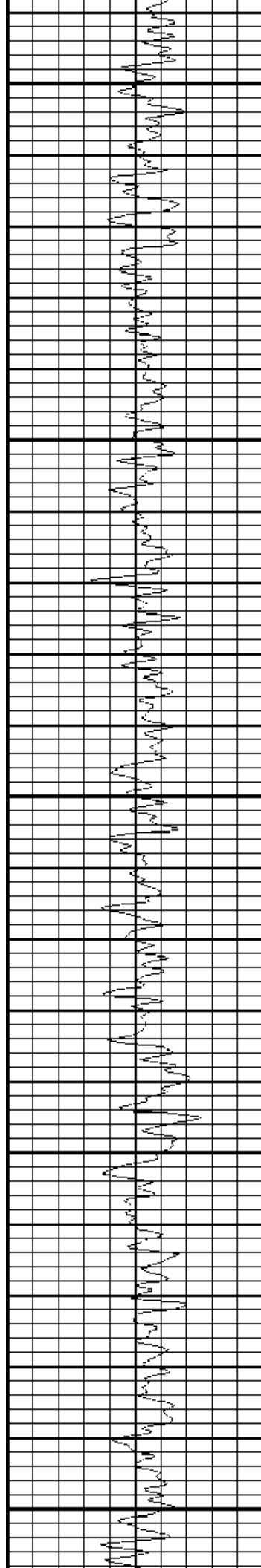
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2600

2650







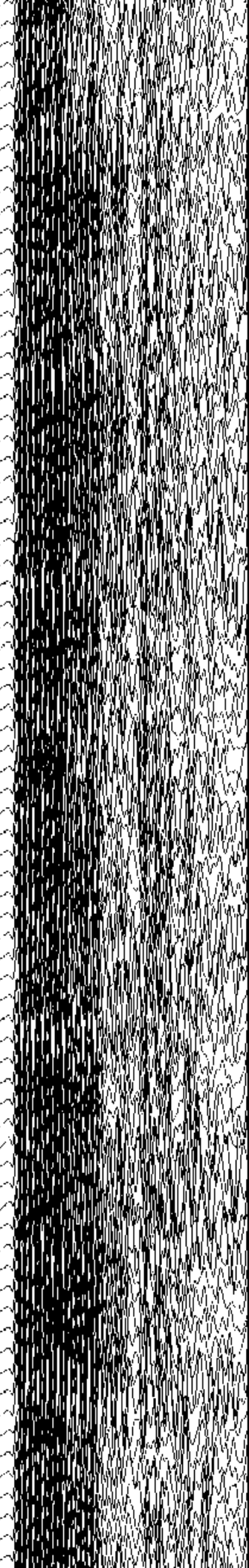
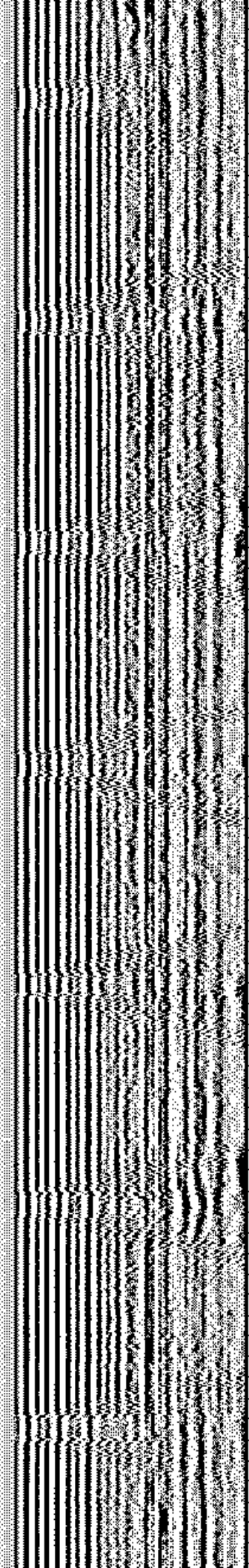
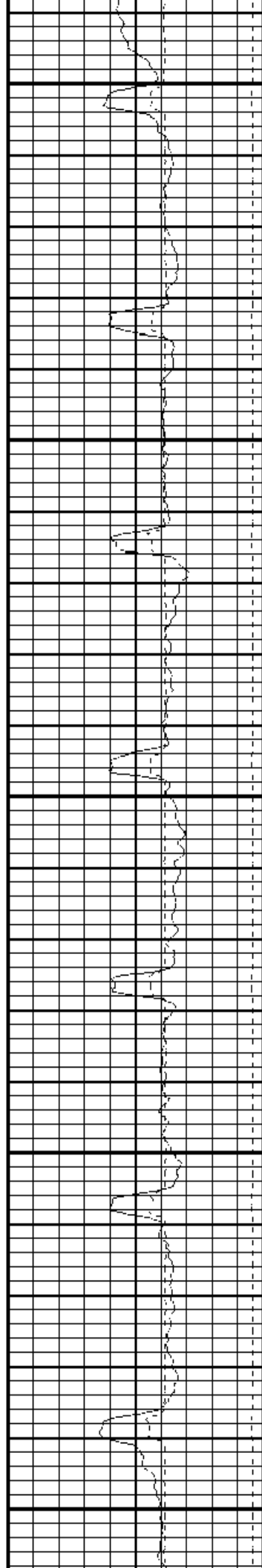
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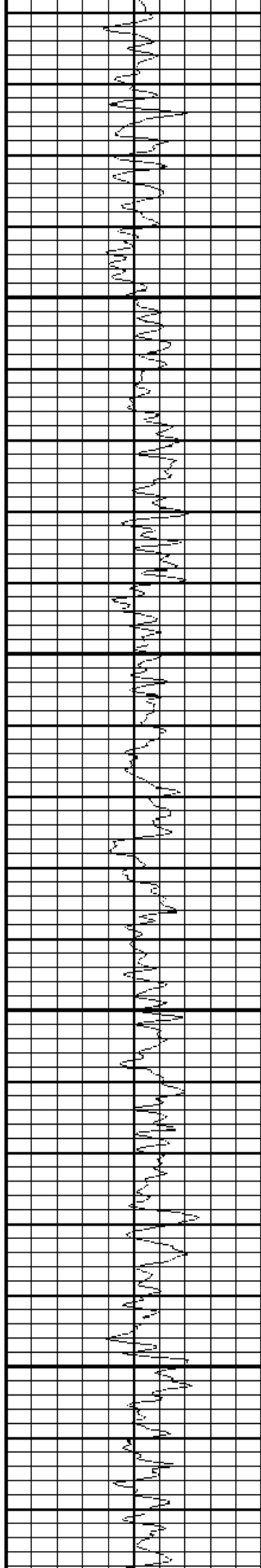
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2800

2850

2900



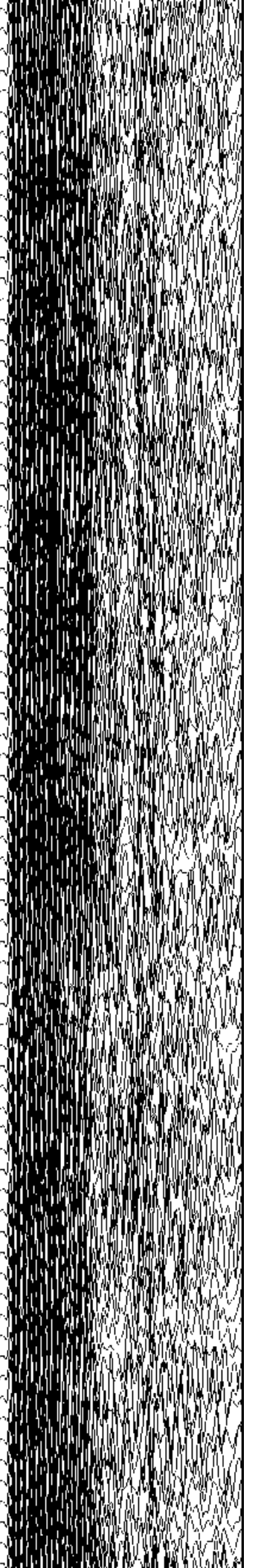
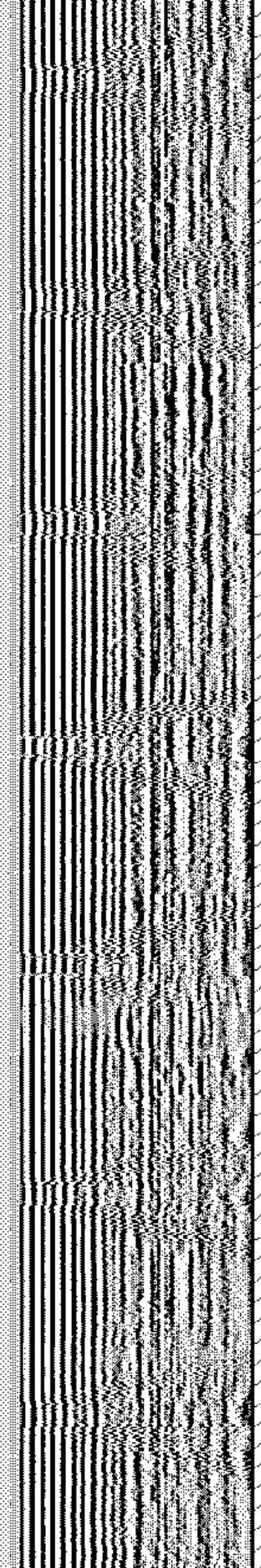
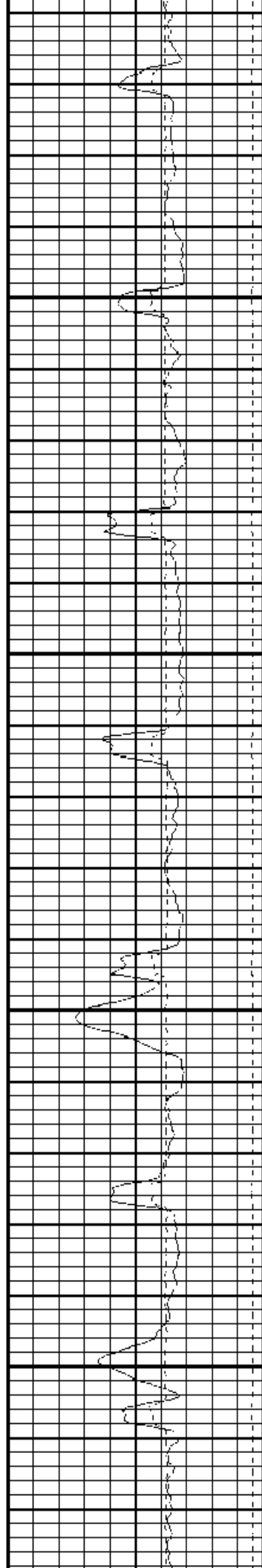


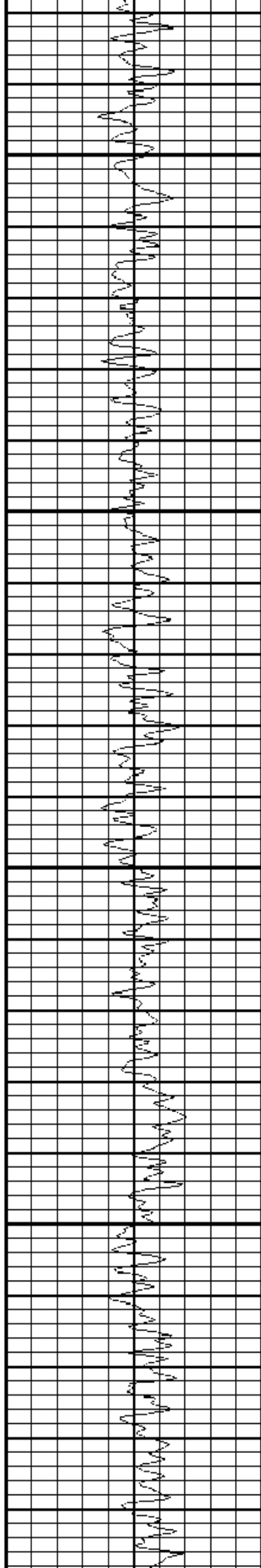
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3000

3050

3100



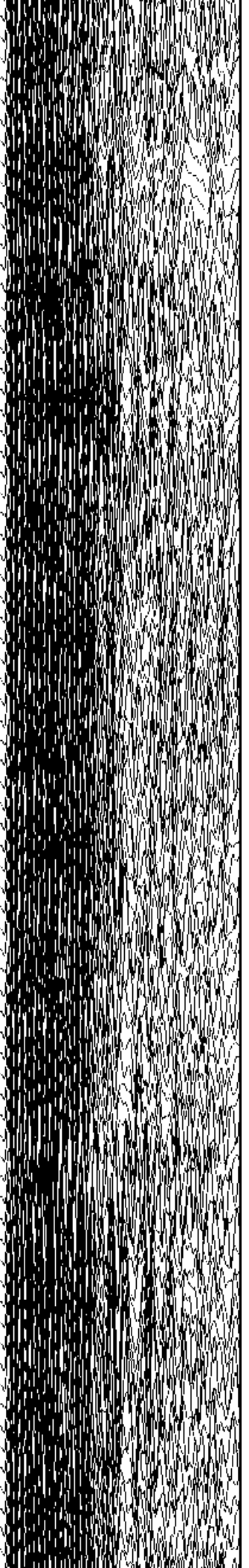
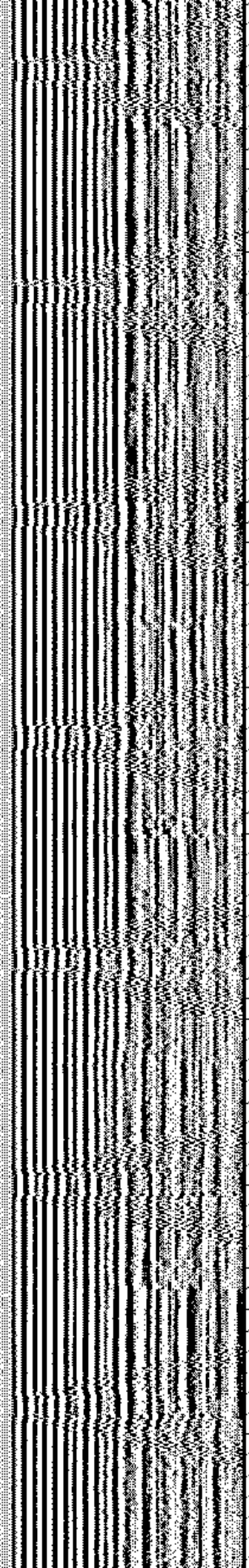
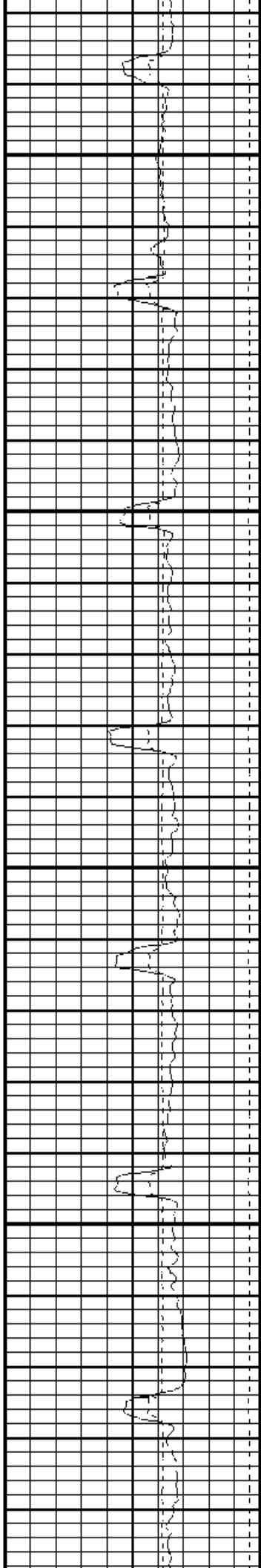


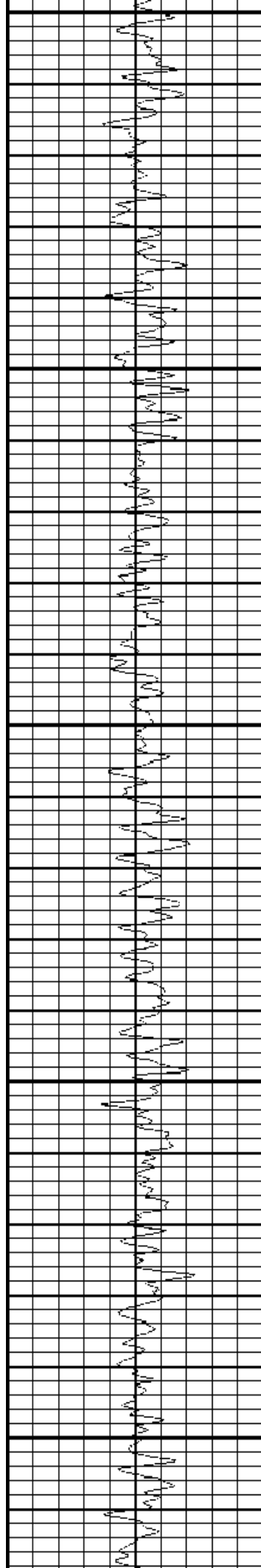
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3300





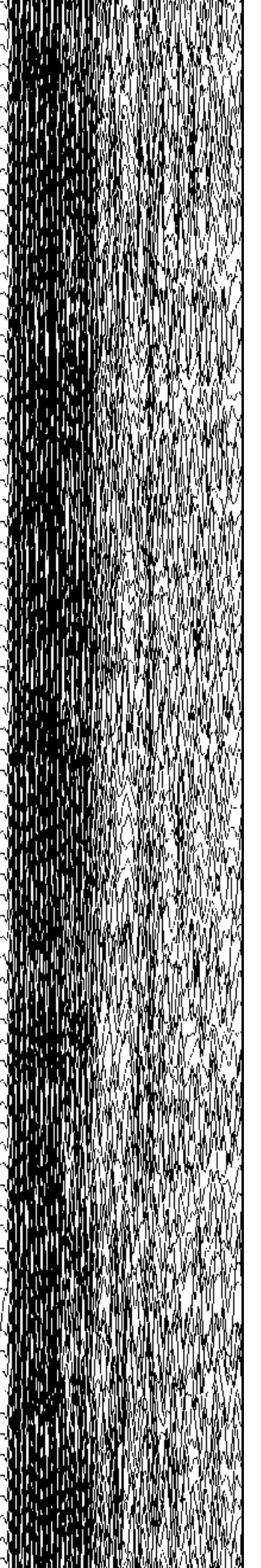
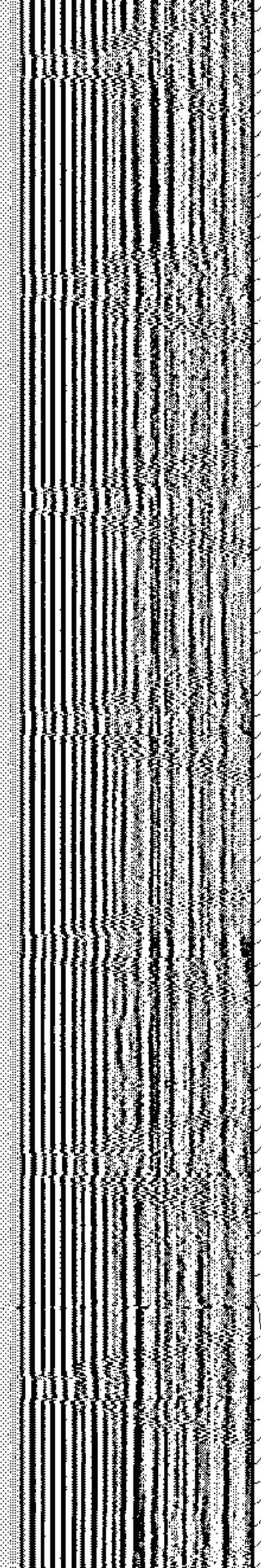
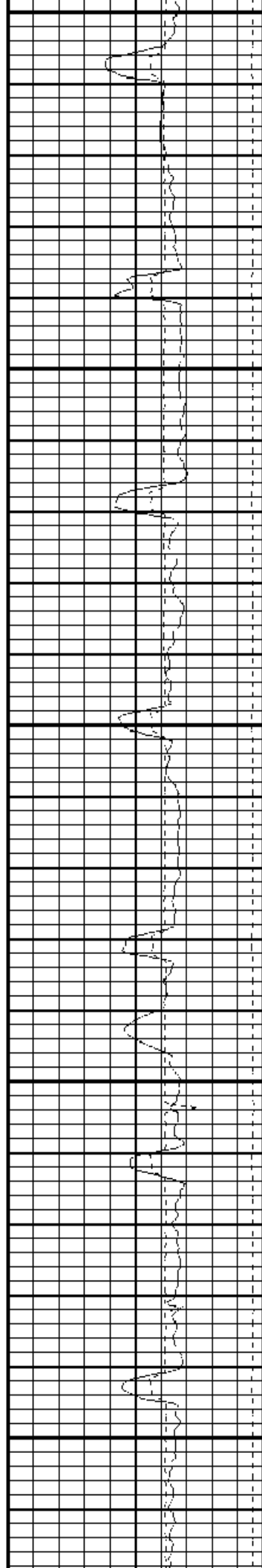
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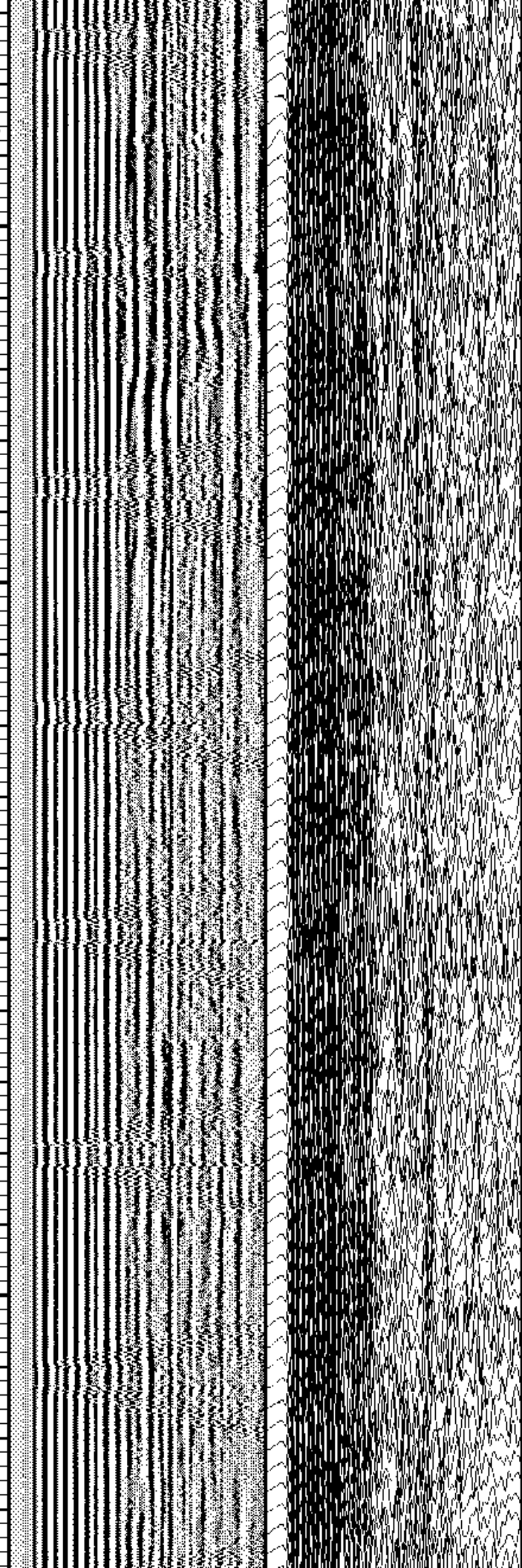
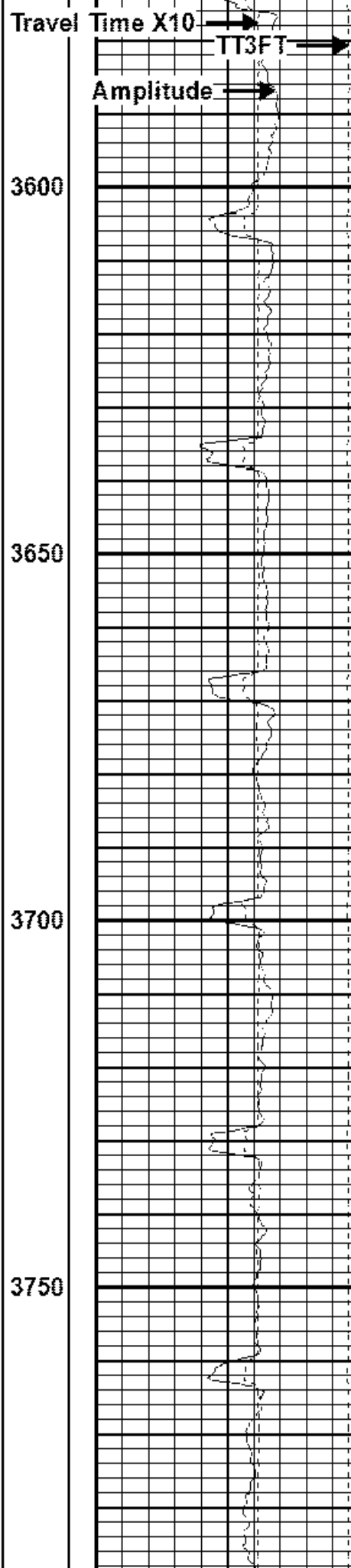
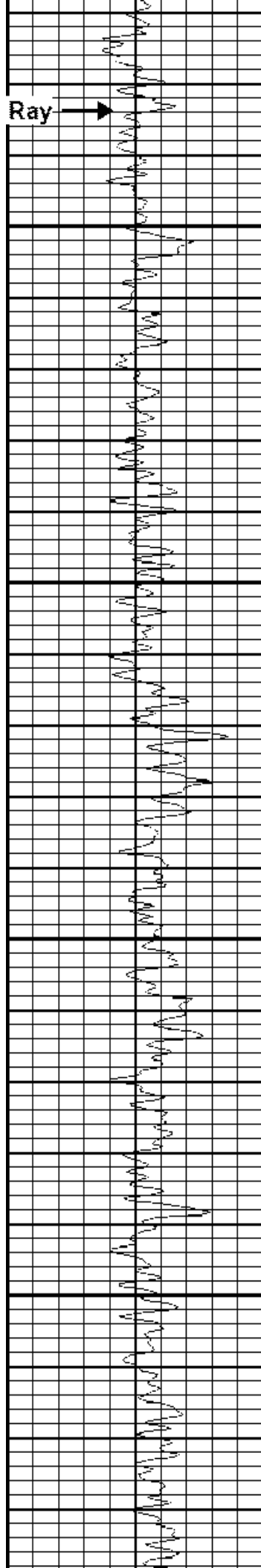
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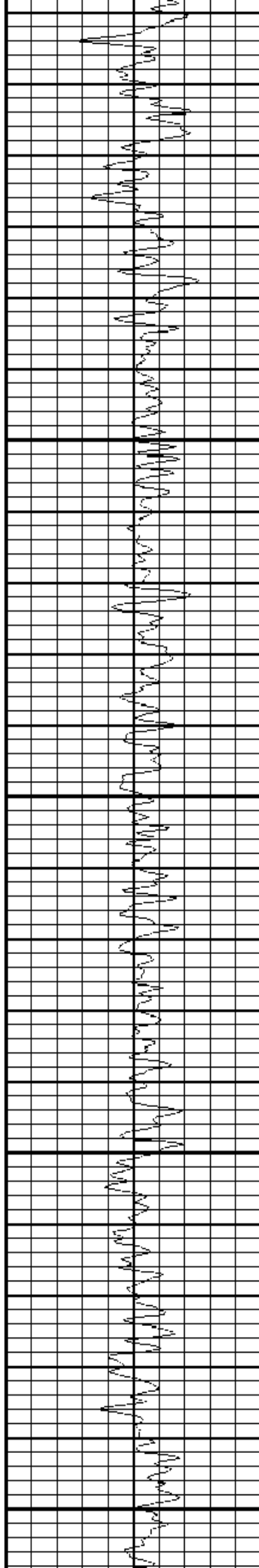
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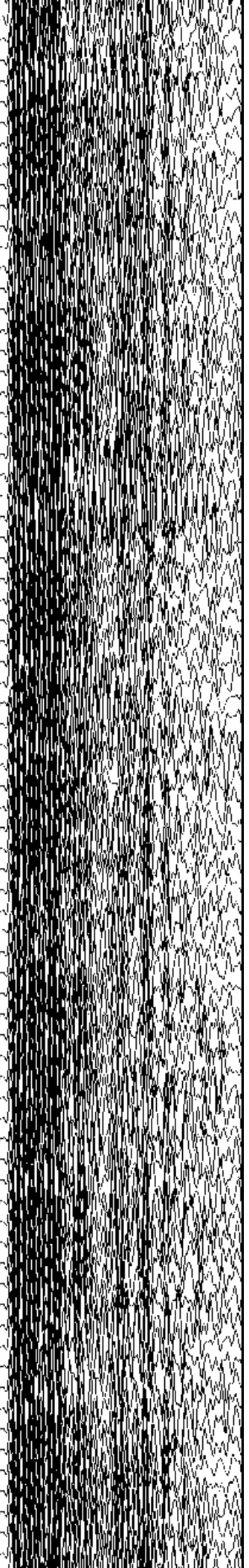
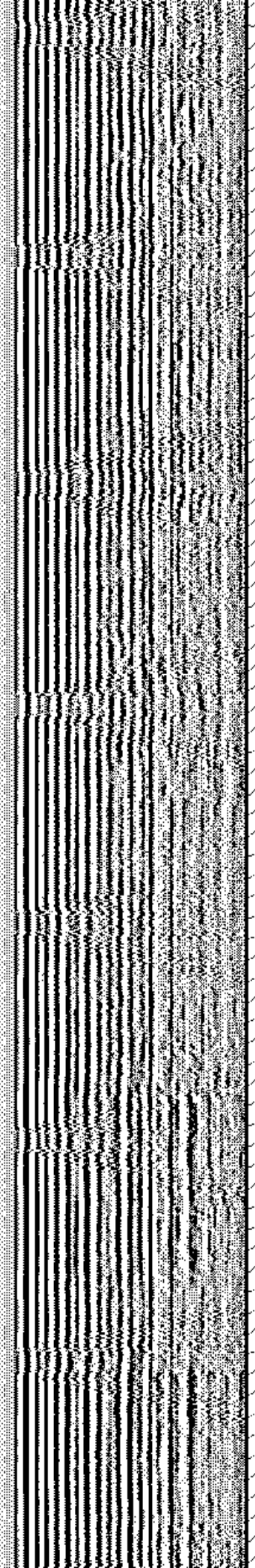
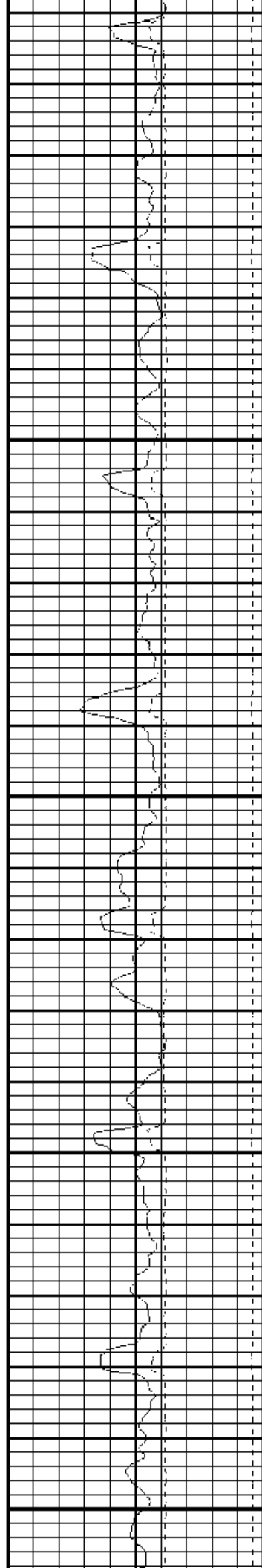
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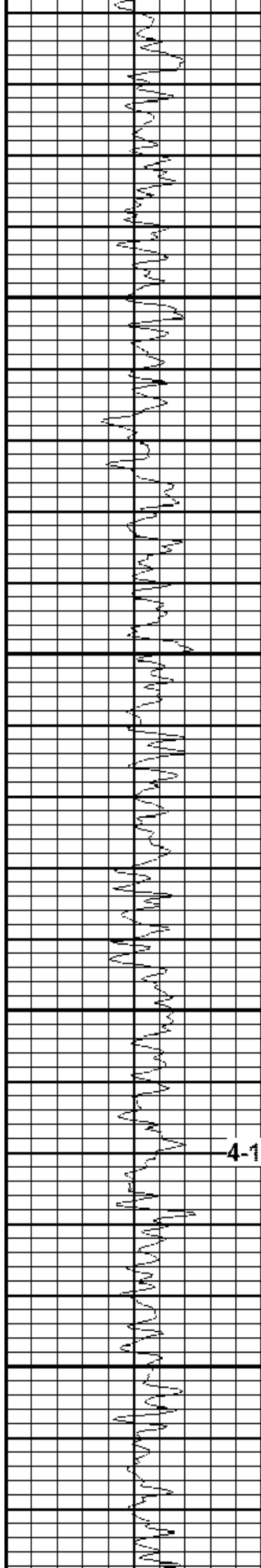
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3900

3950

4000





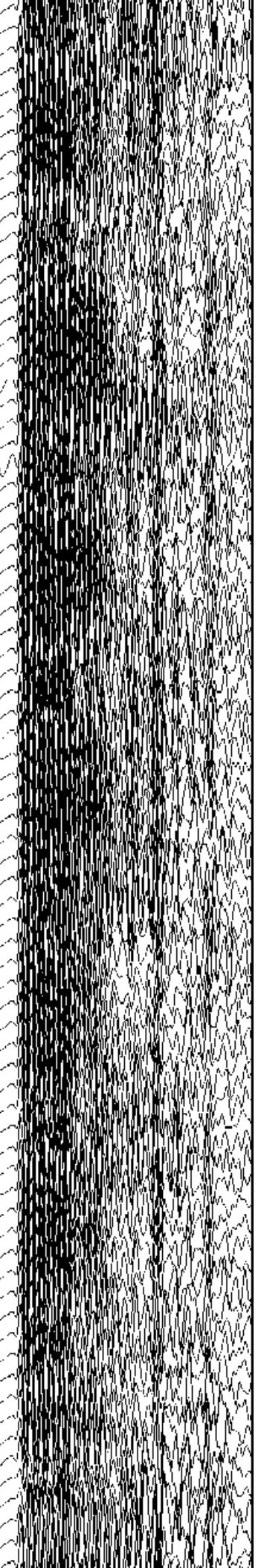
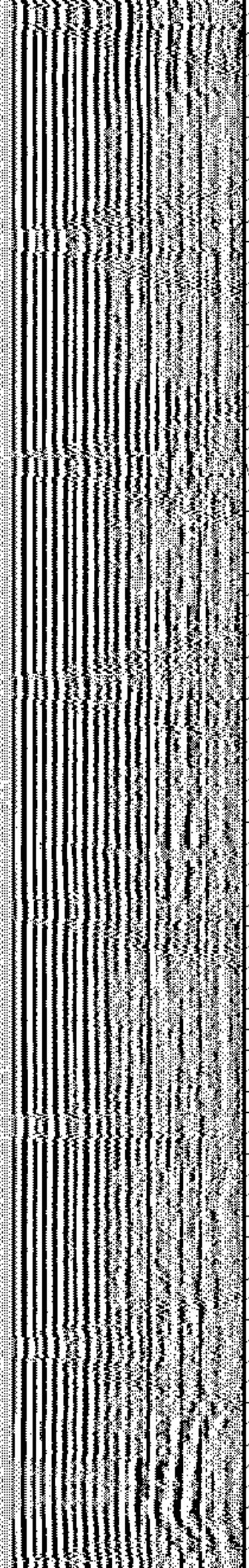
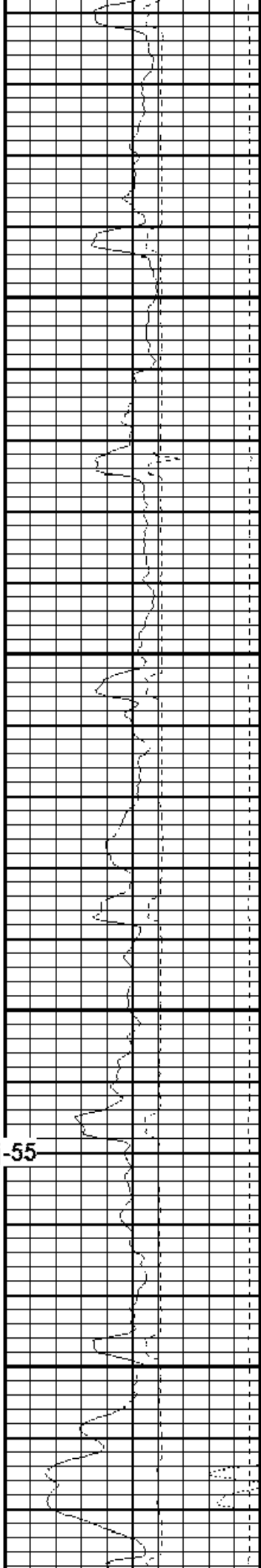
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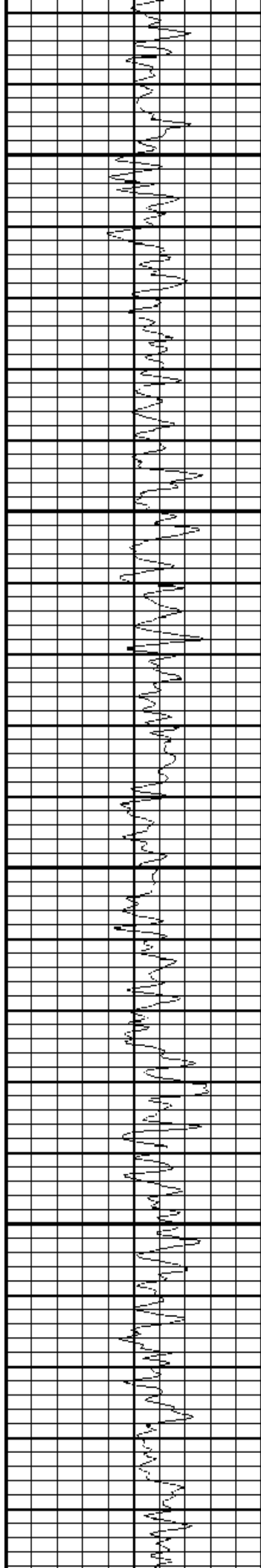
4150

4-1/2" 11.6# j-55

4200





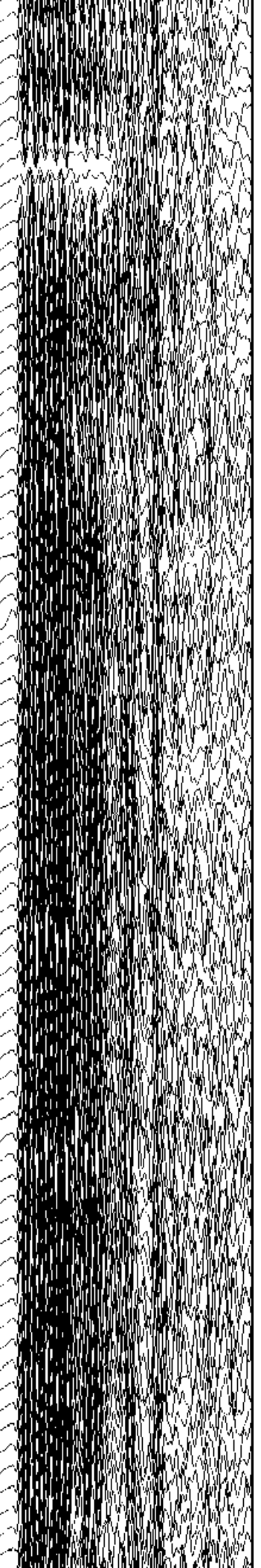
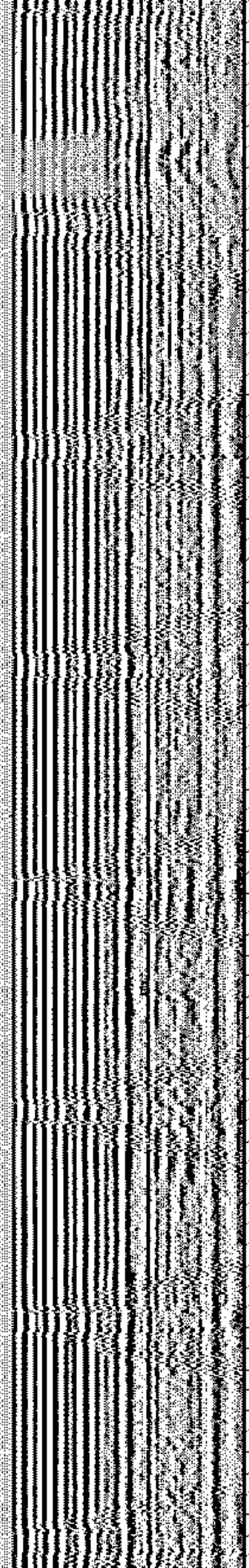
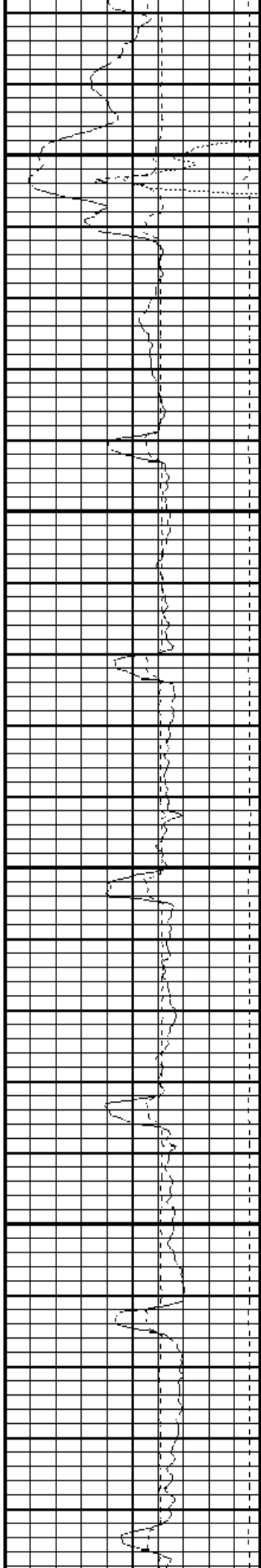


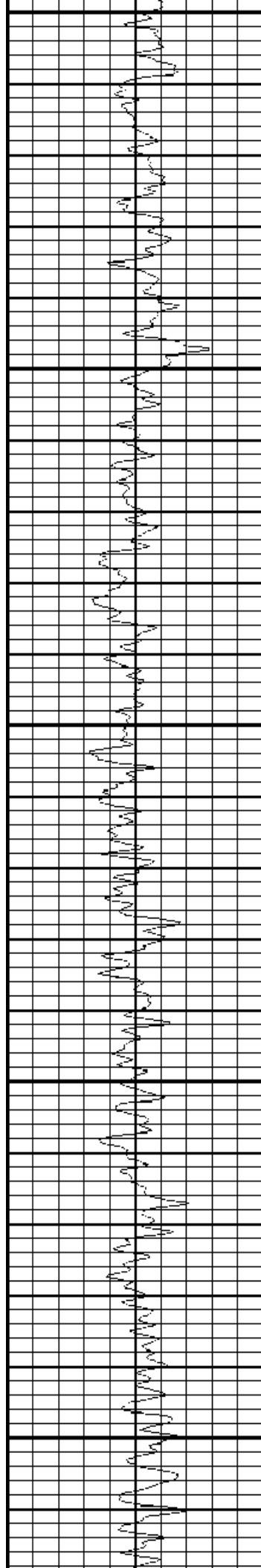
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4300

4350

4400





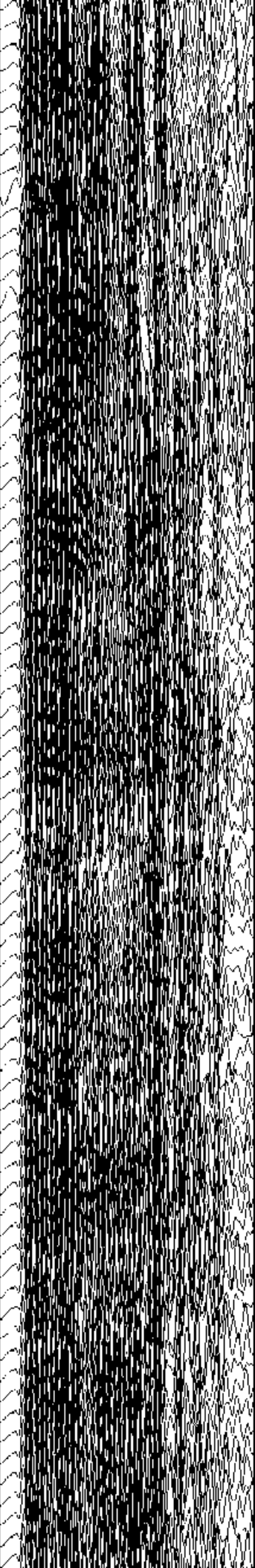
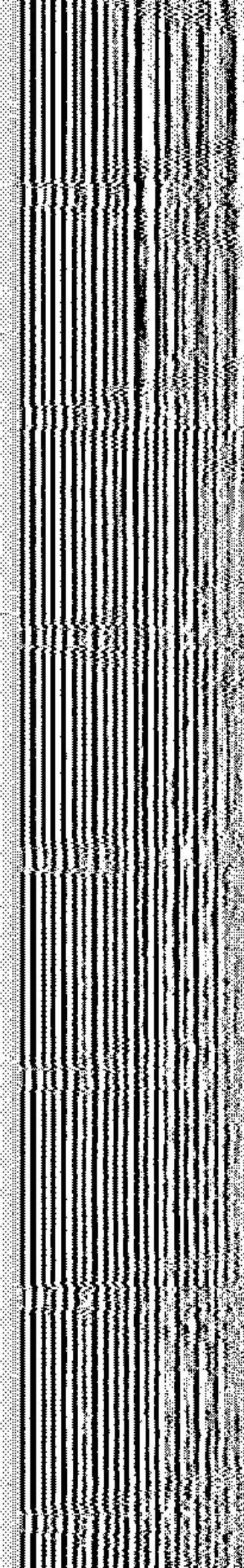
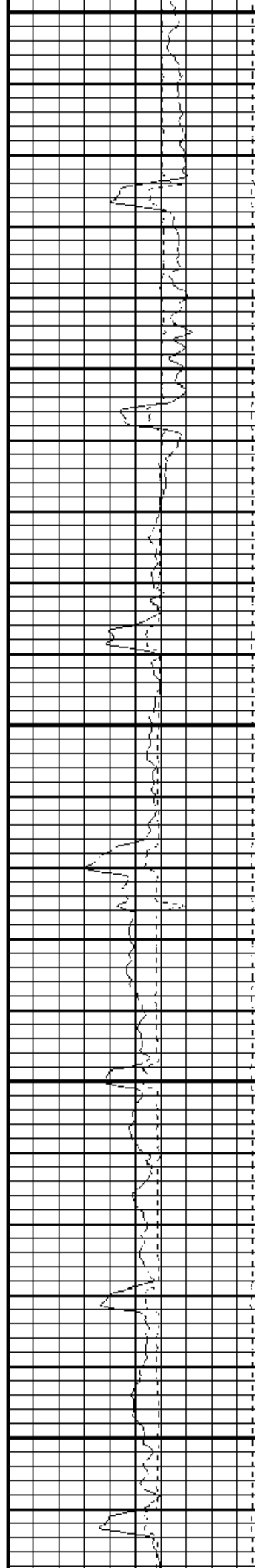
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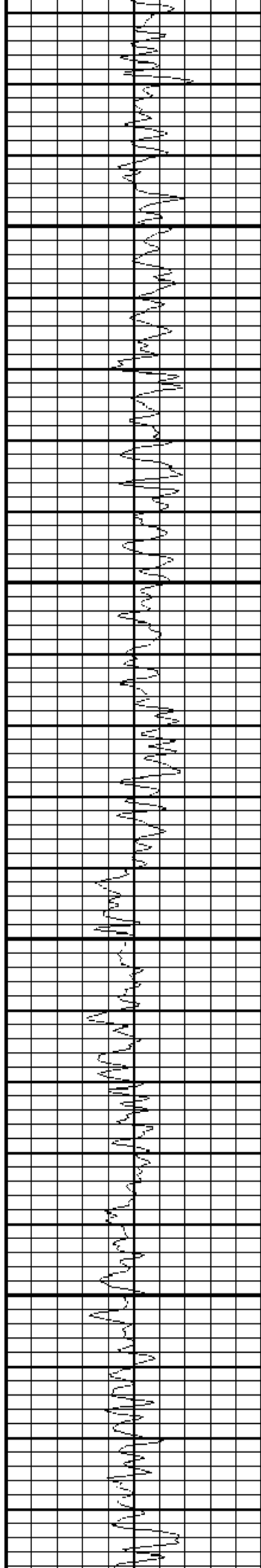
4500

4550

4600

4650



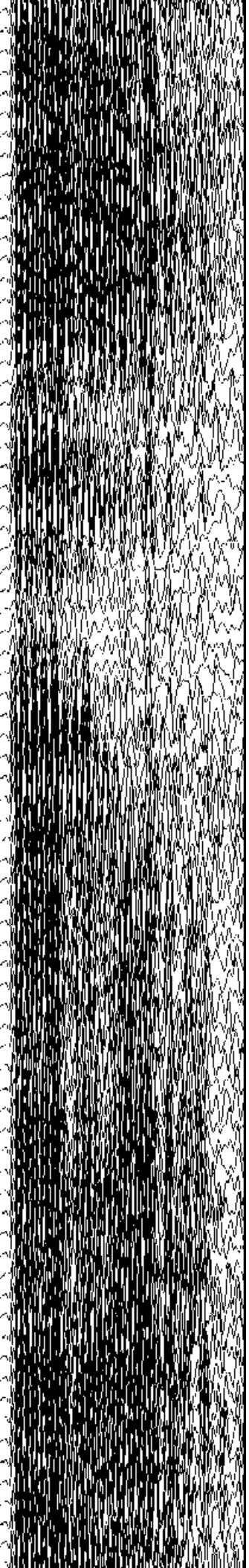
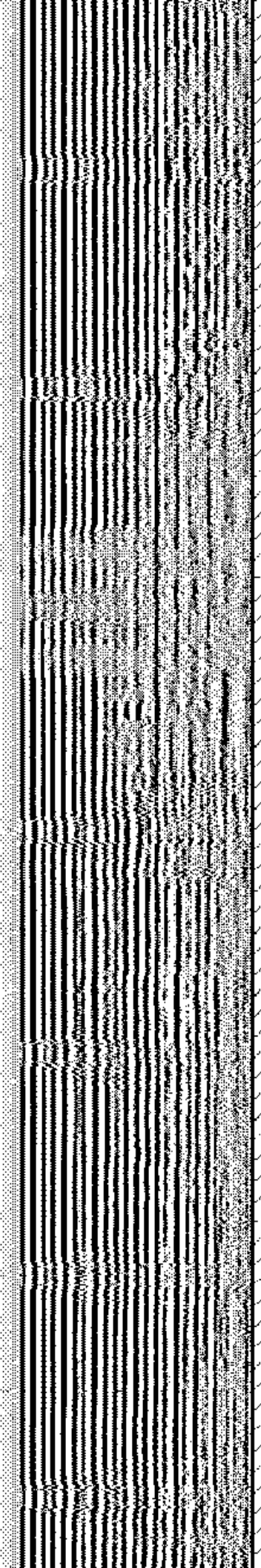
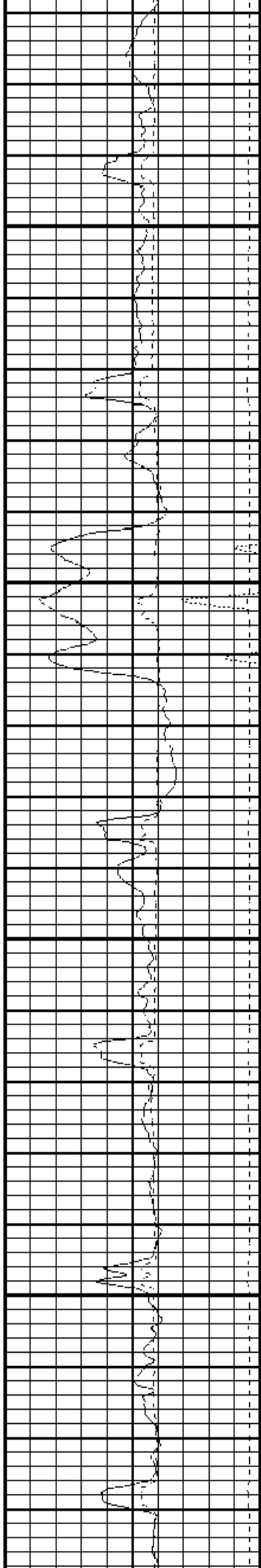


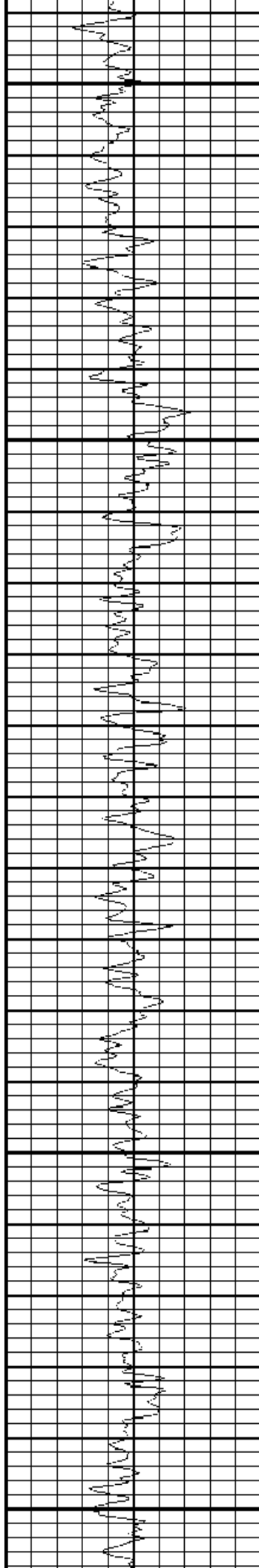
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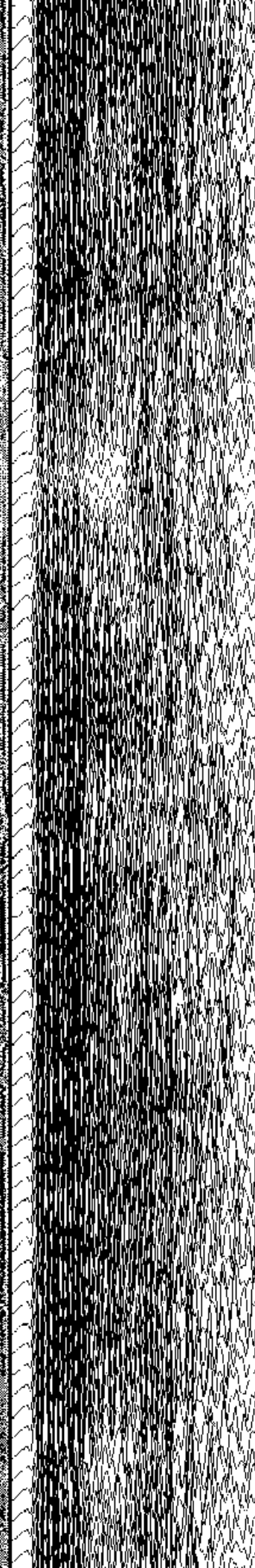
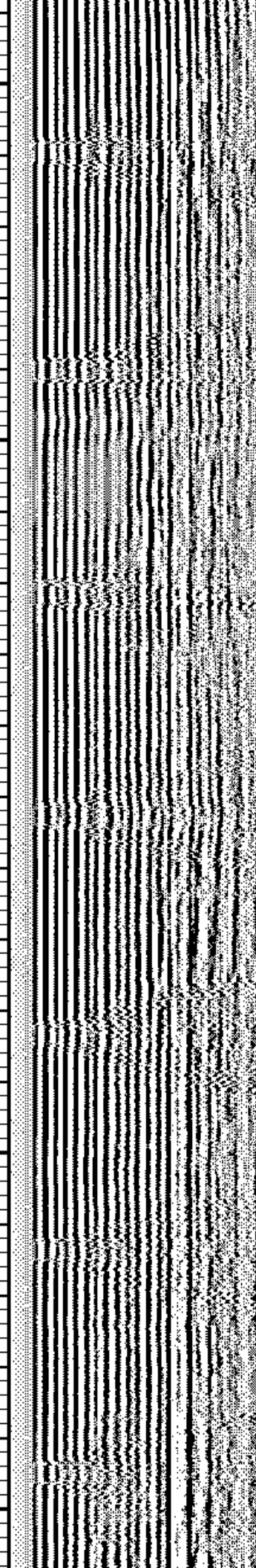
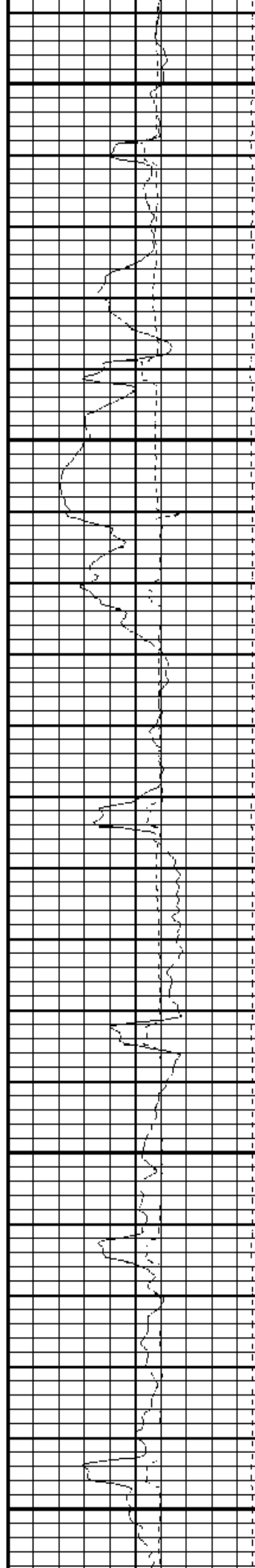
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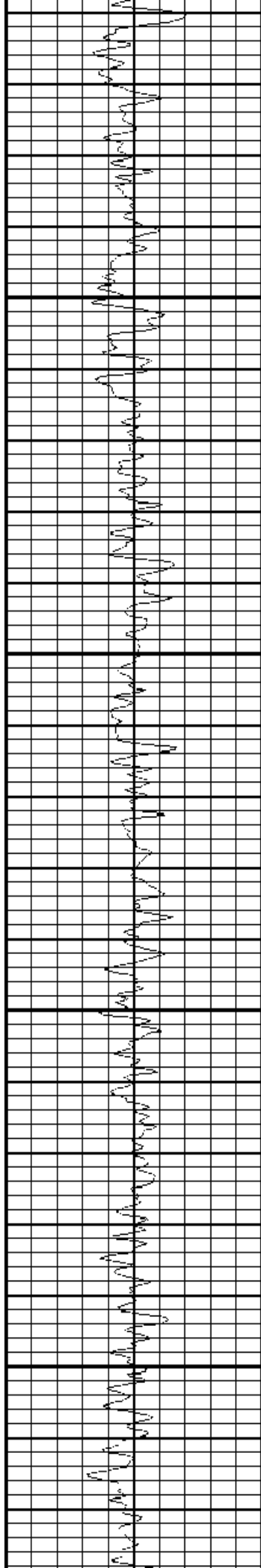
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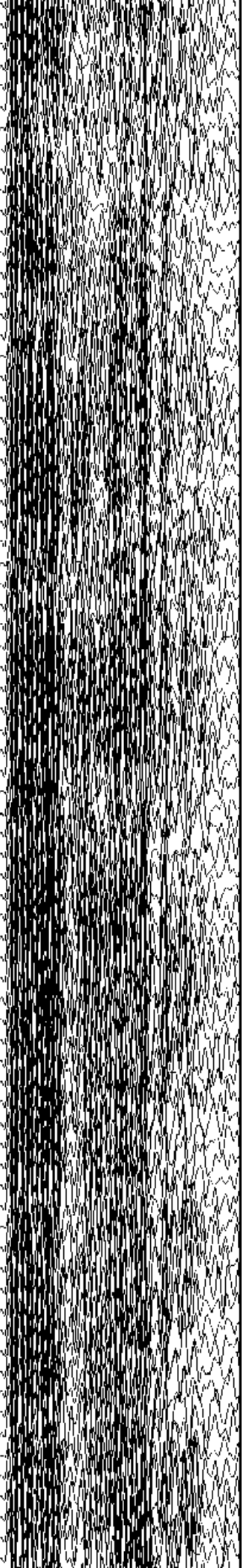
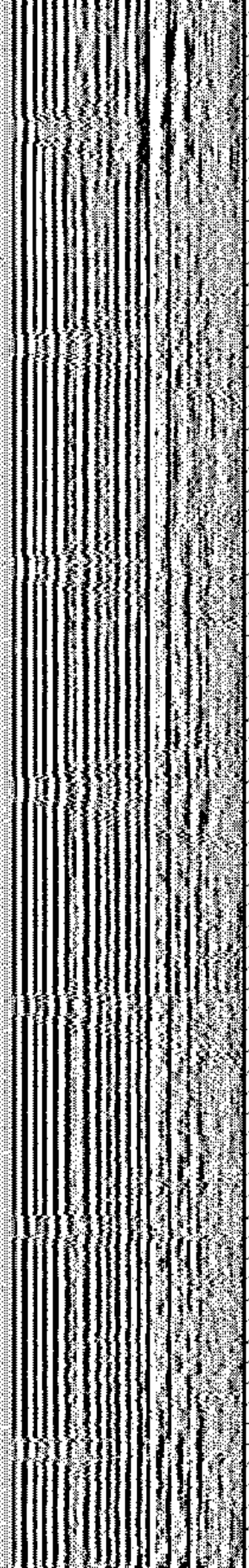
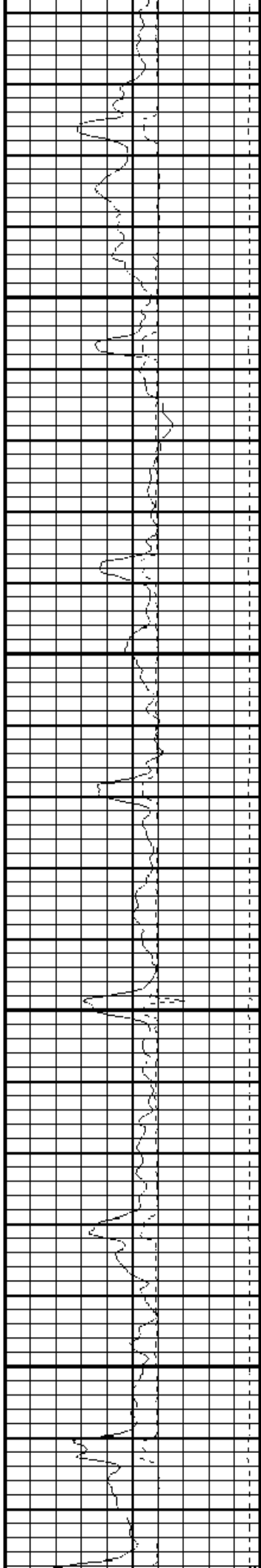


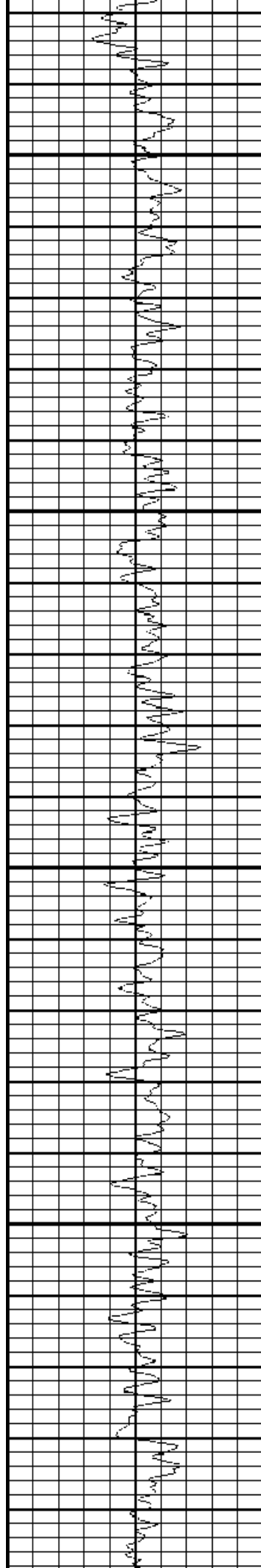
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5300



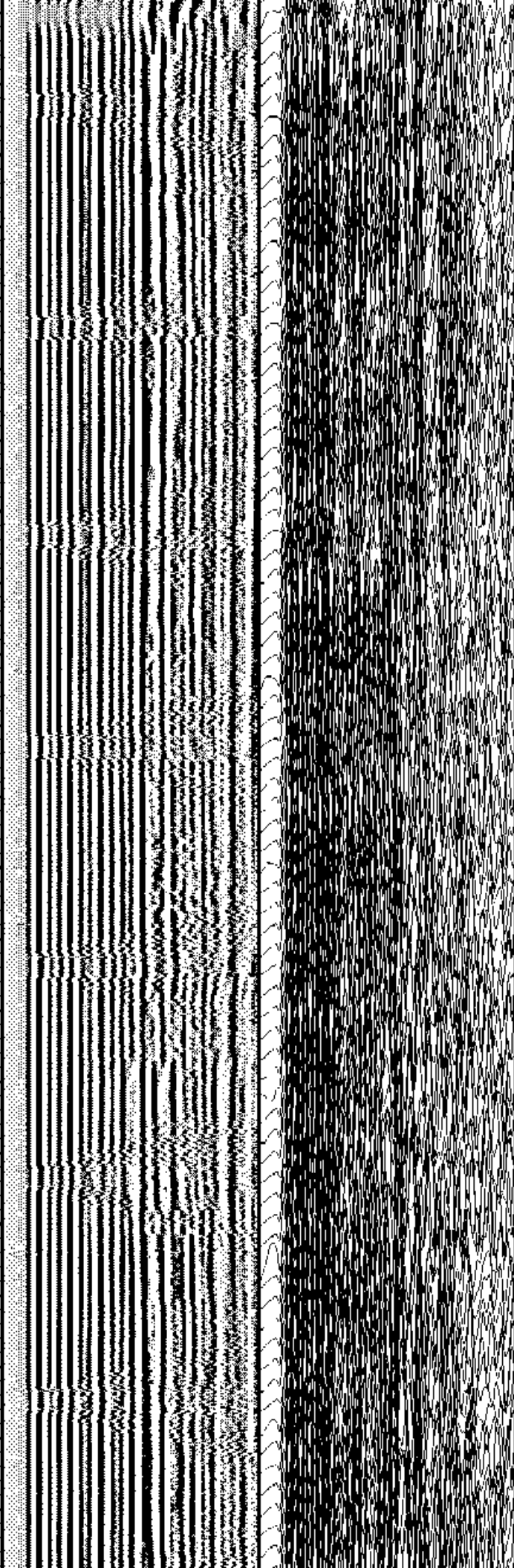
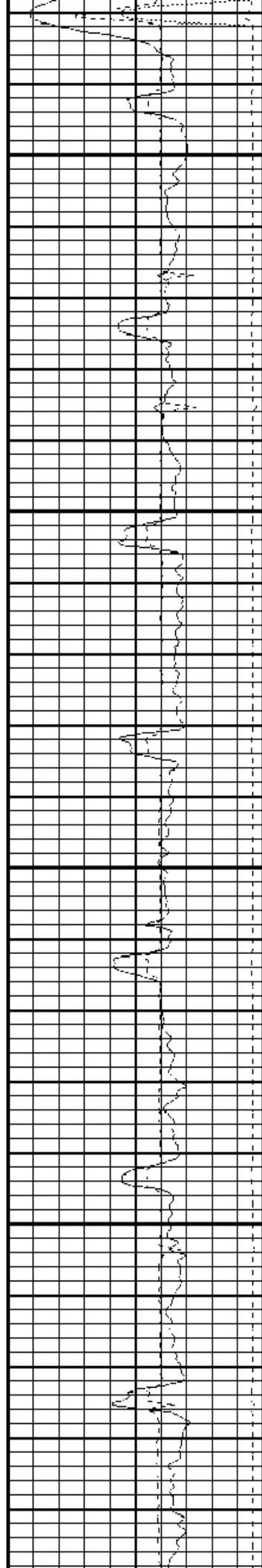


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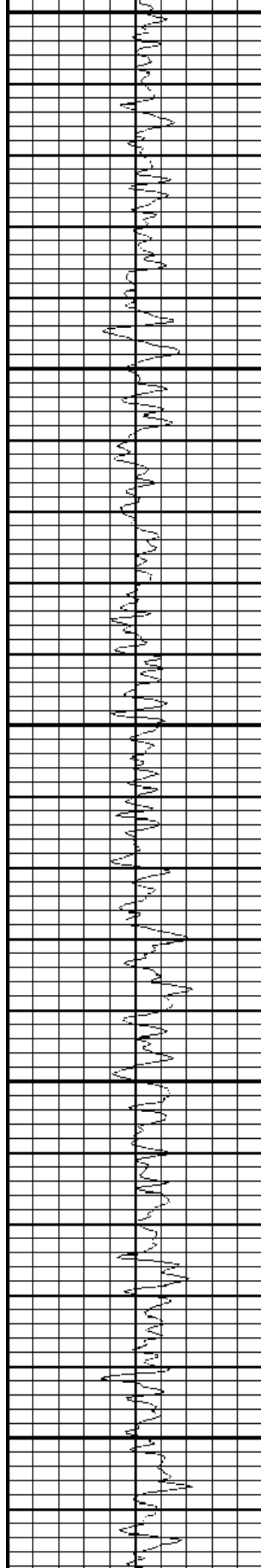
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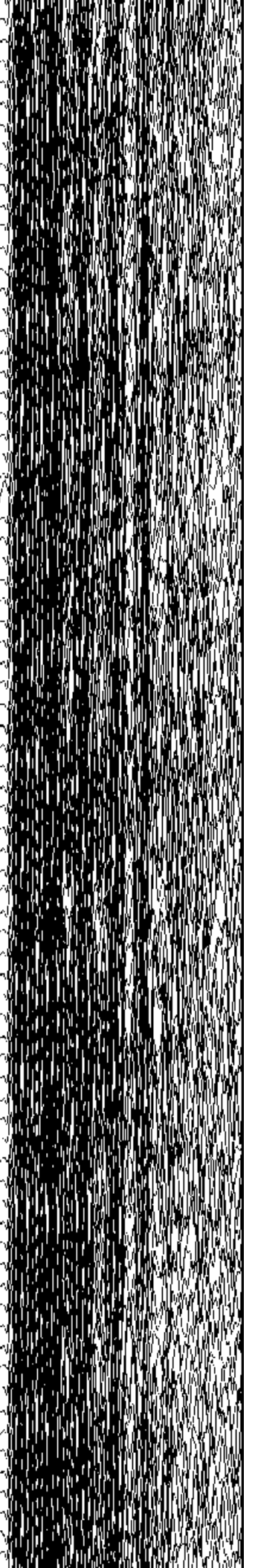
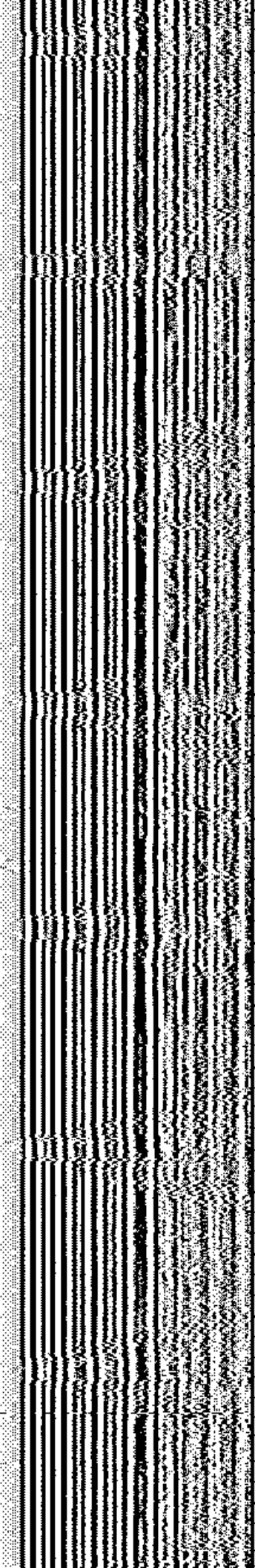
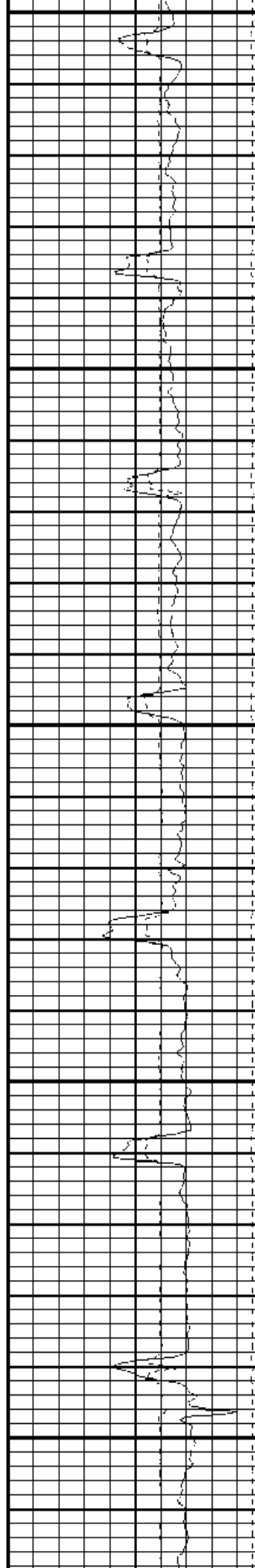
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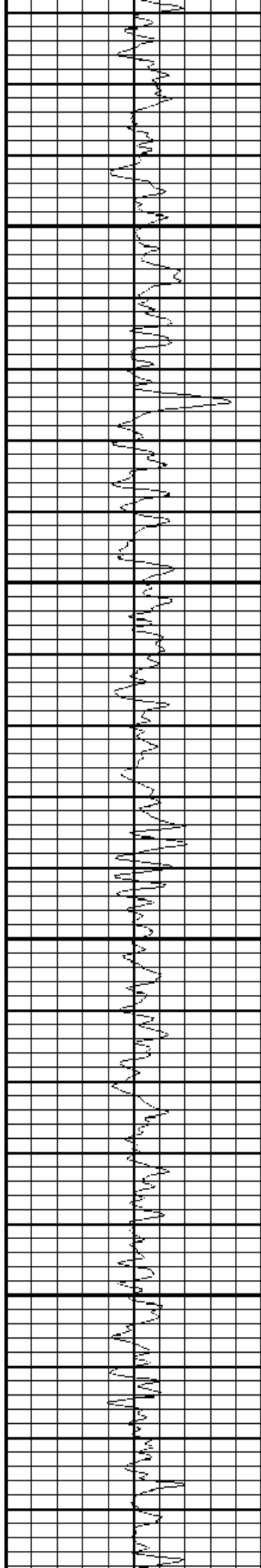
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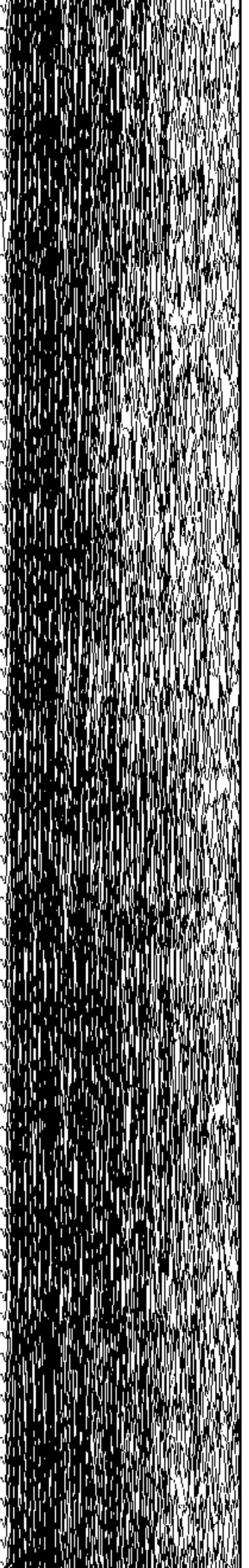
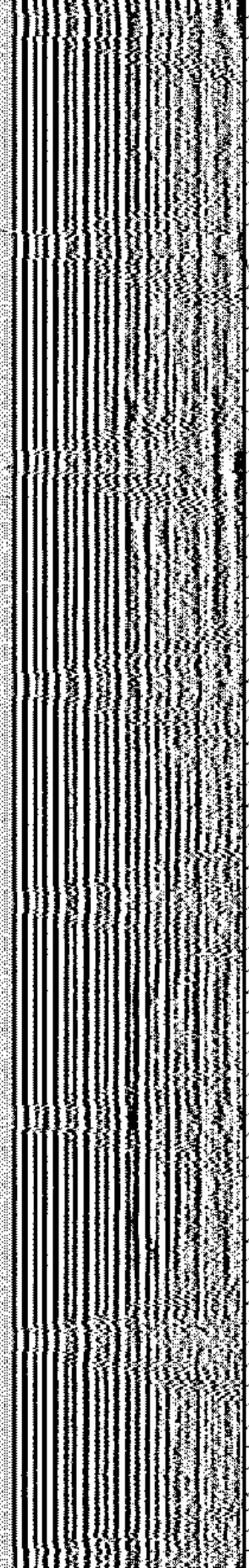
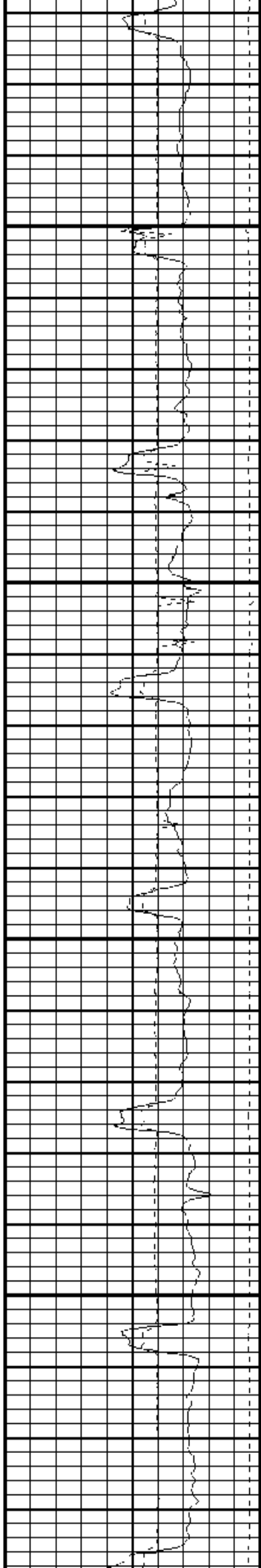


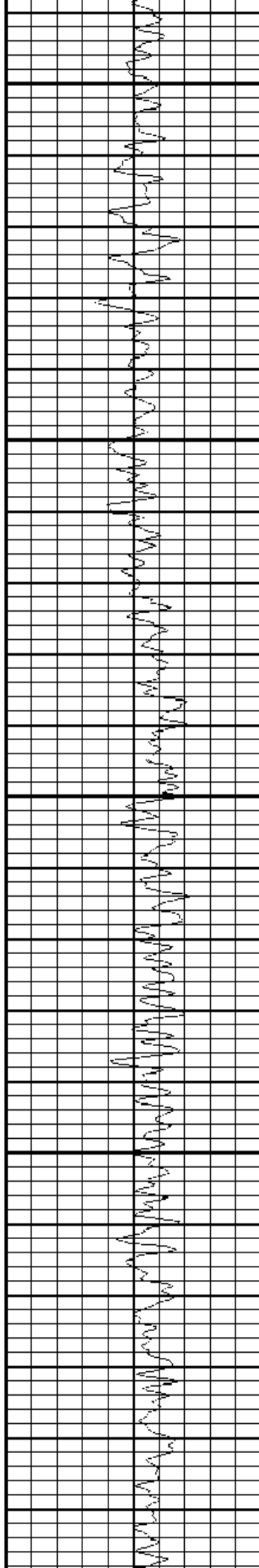
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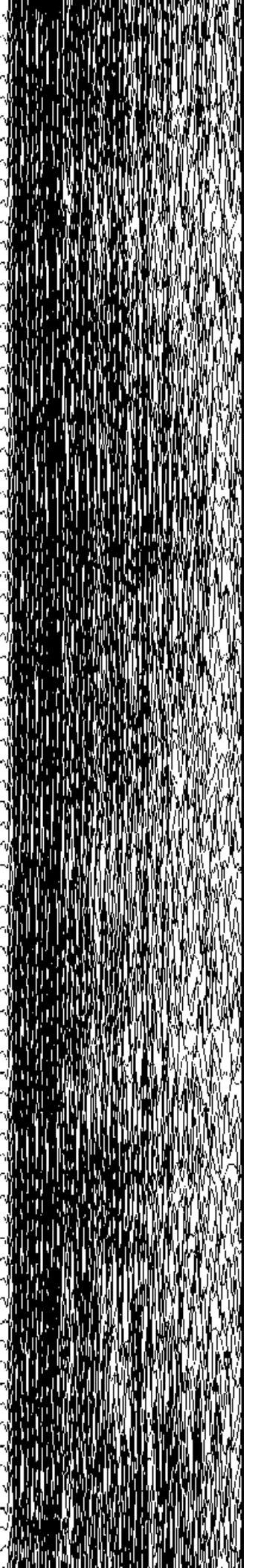
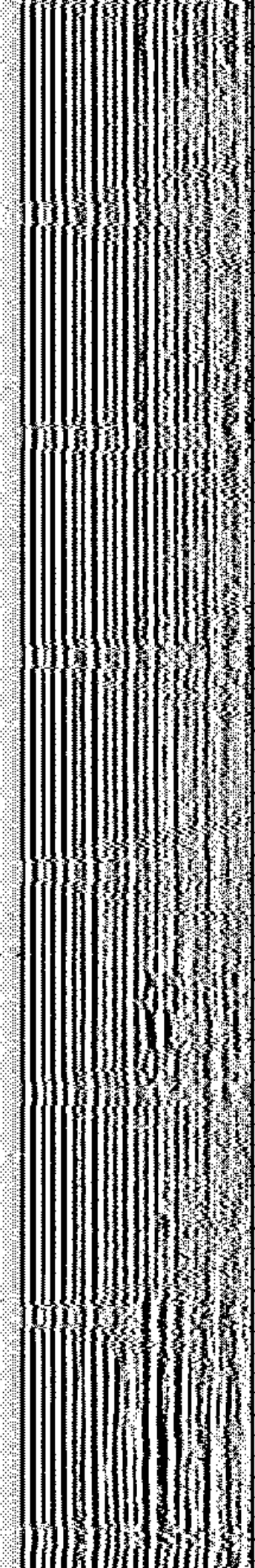
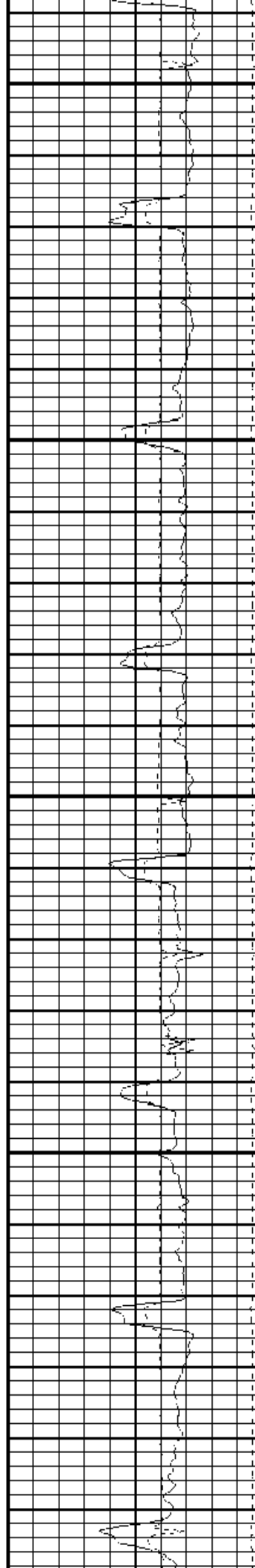
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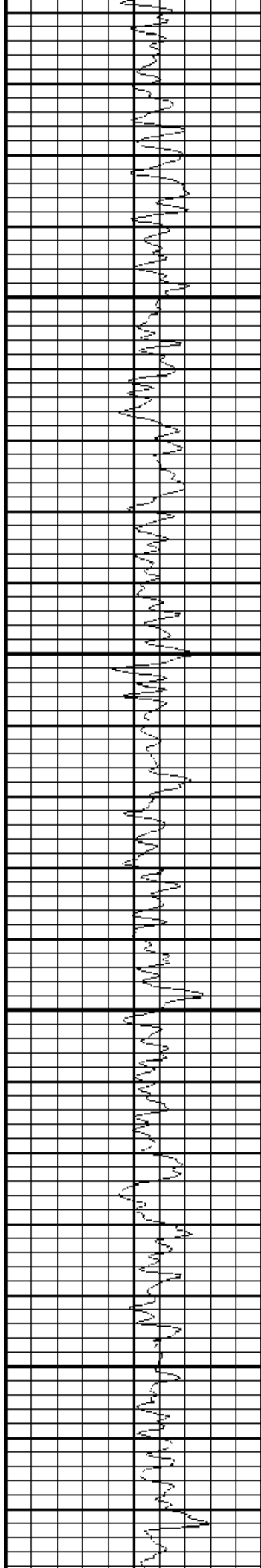
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6100

6150

6200



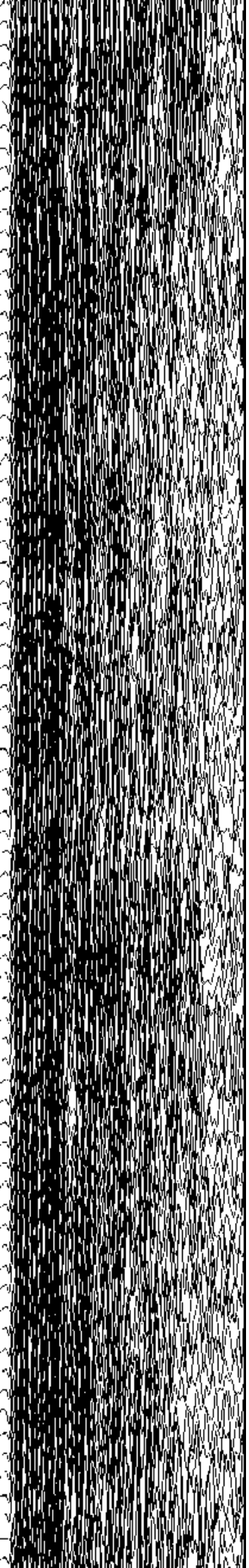
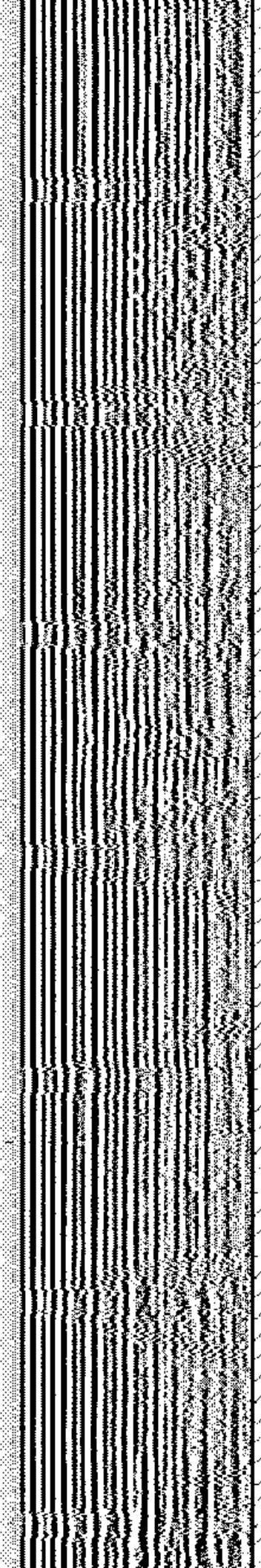
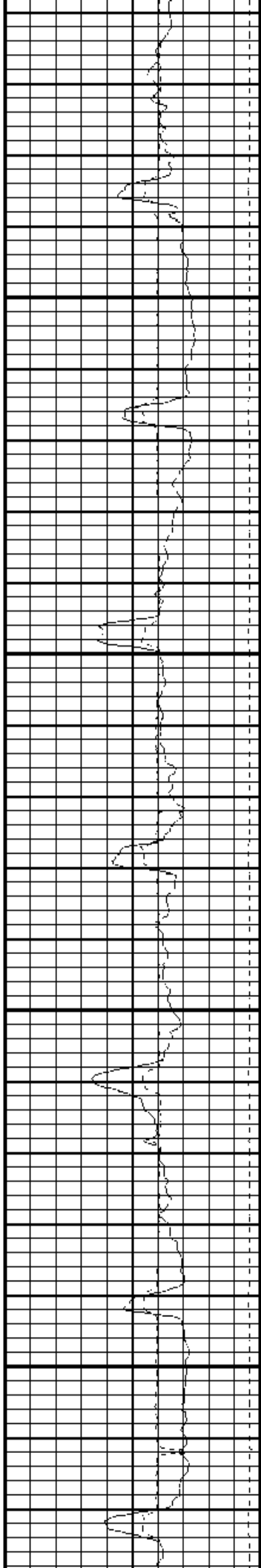


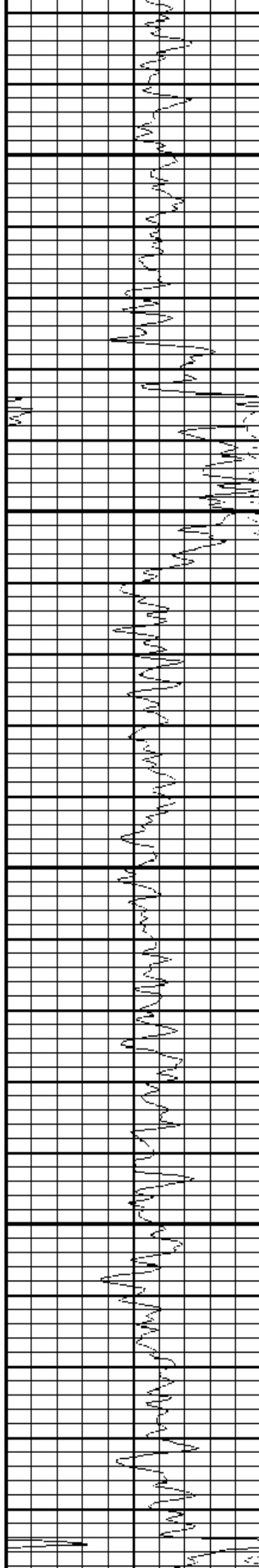
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6400



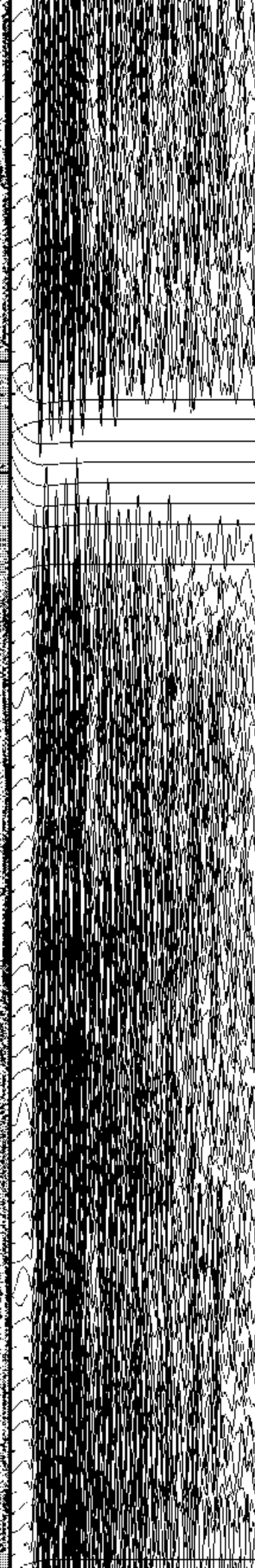
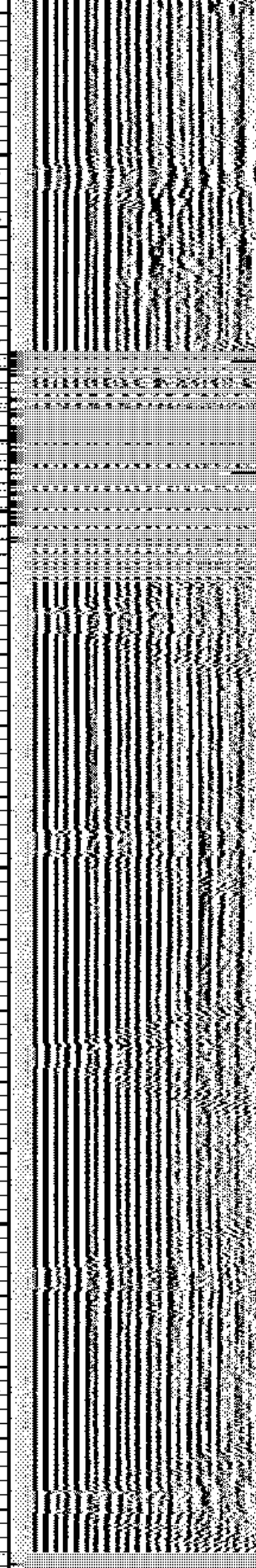
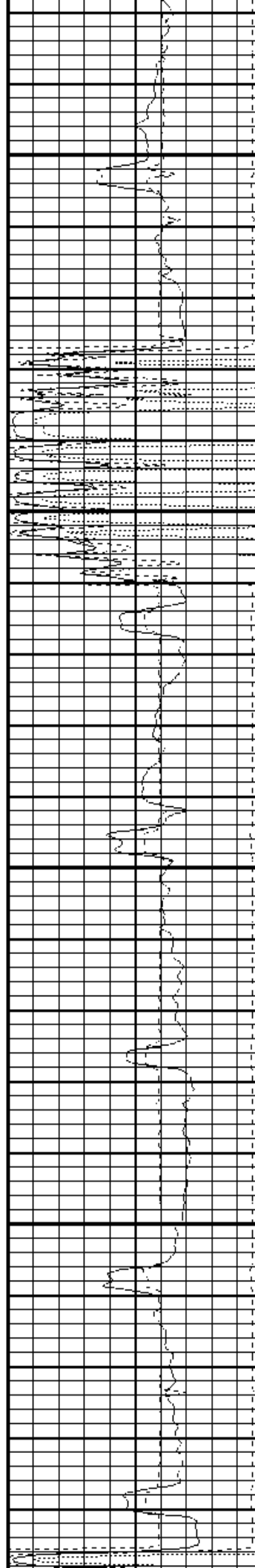


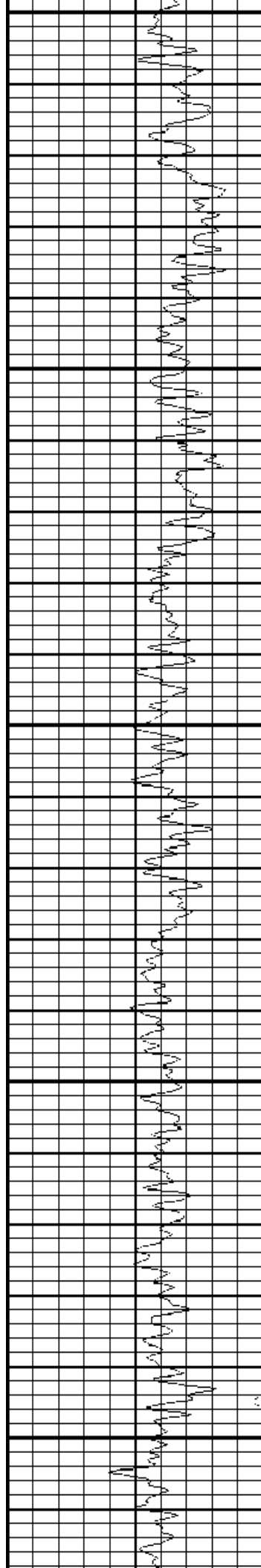
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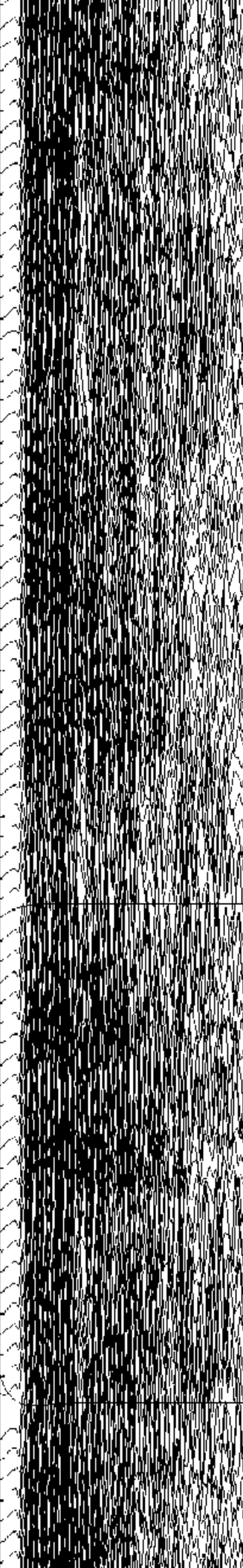
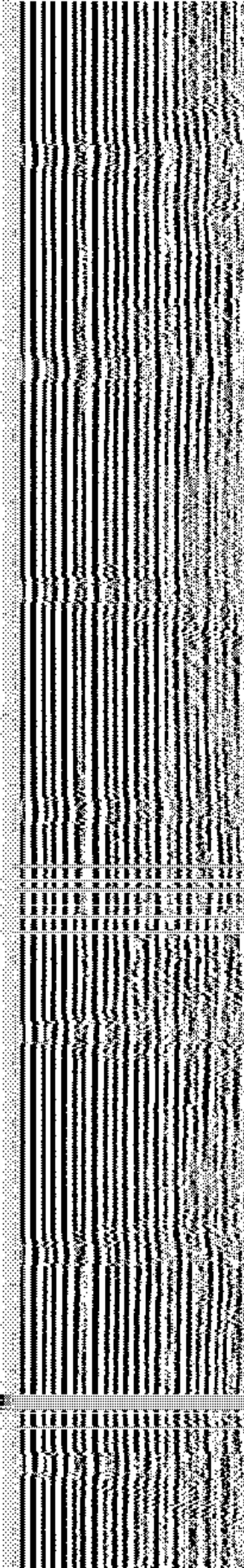
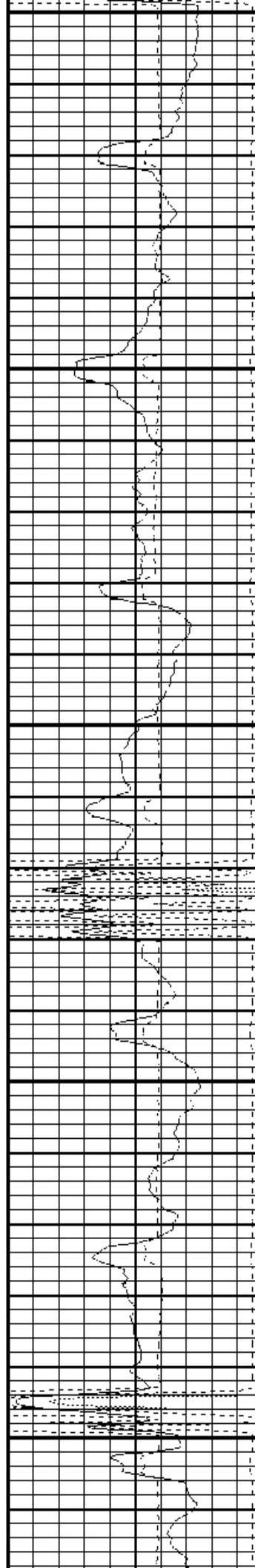
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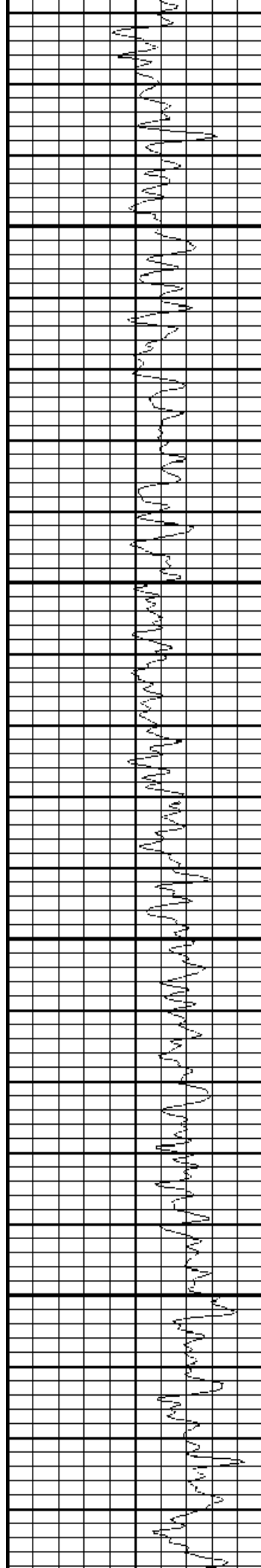
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6850





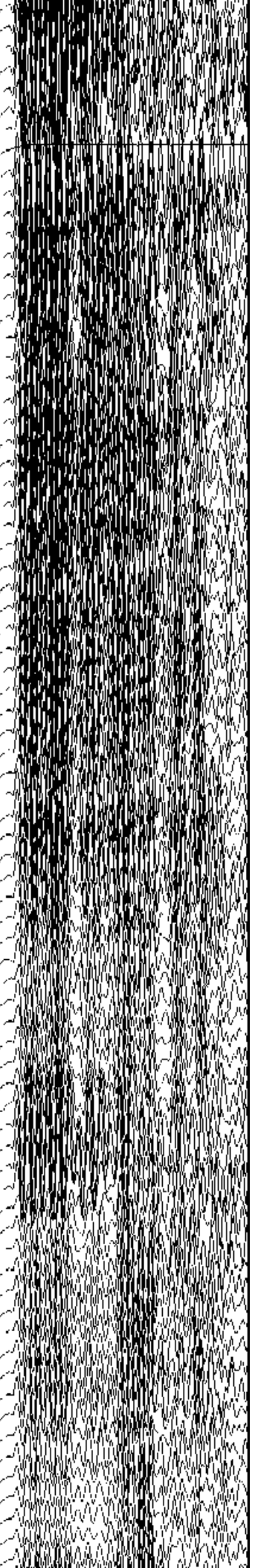
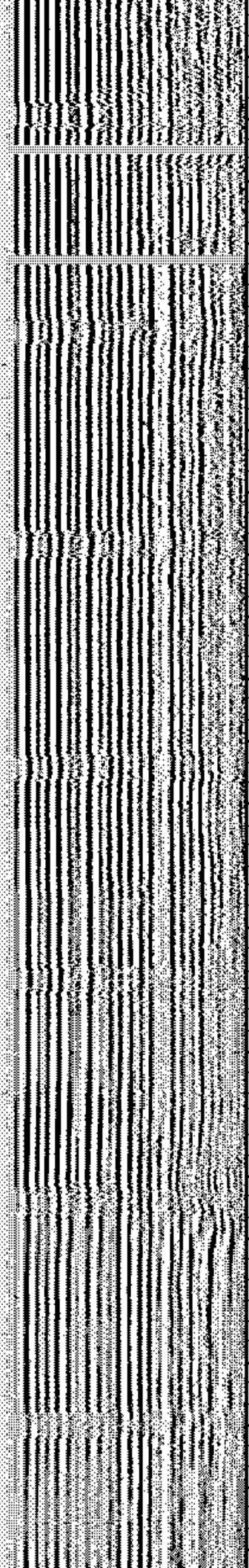
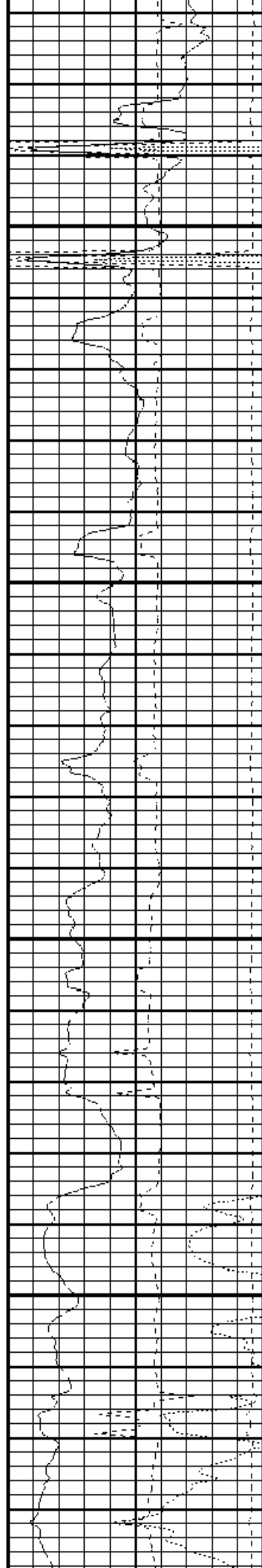


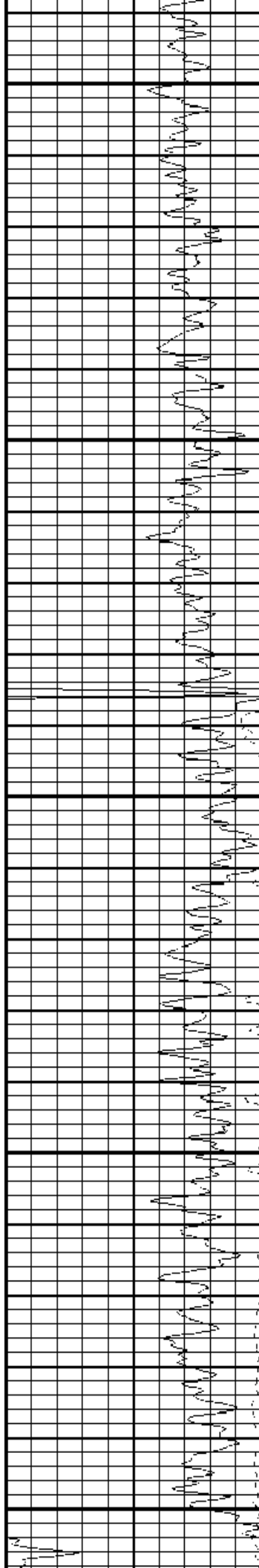
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6950

7000

7050





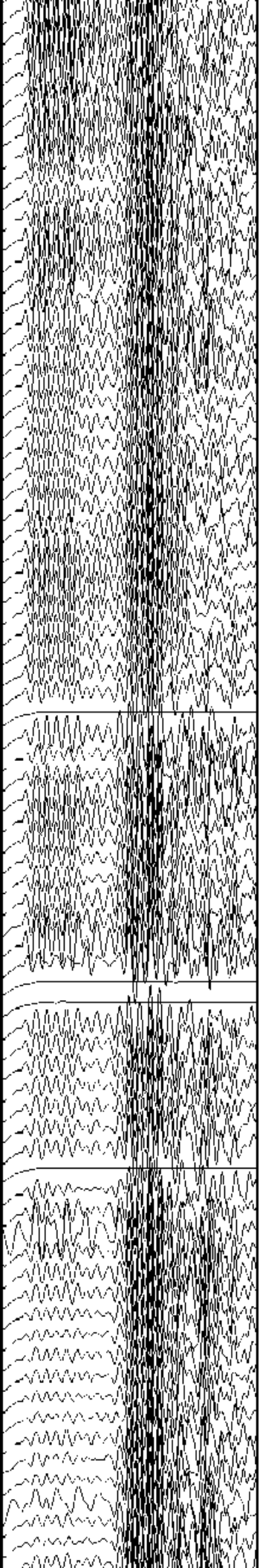
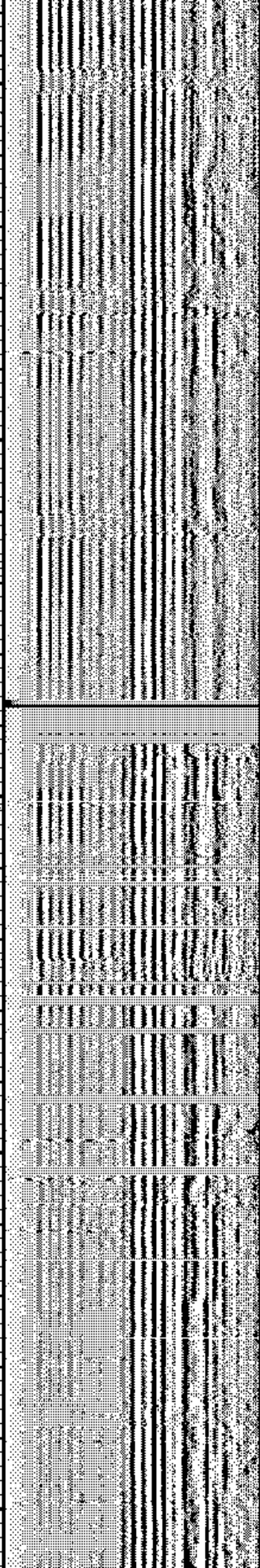
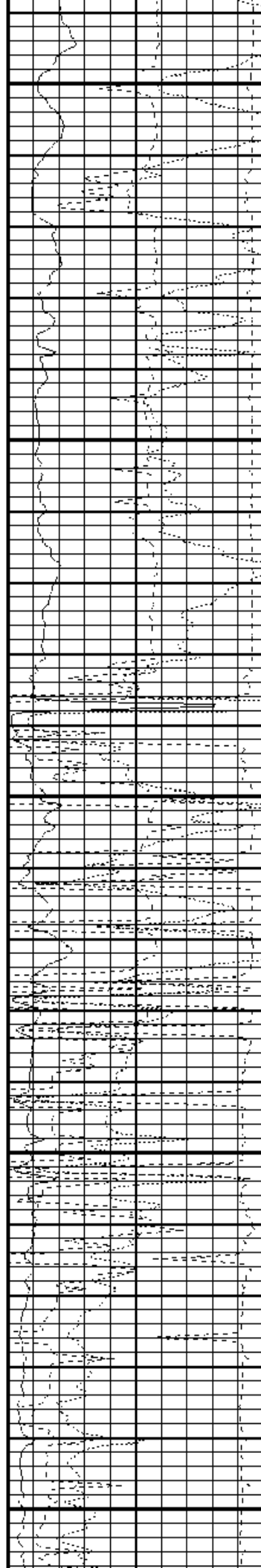
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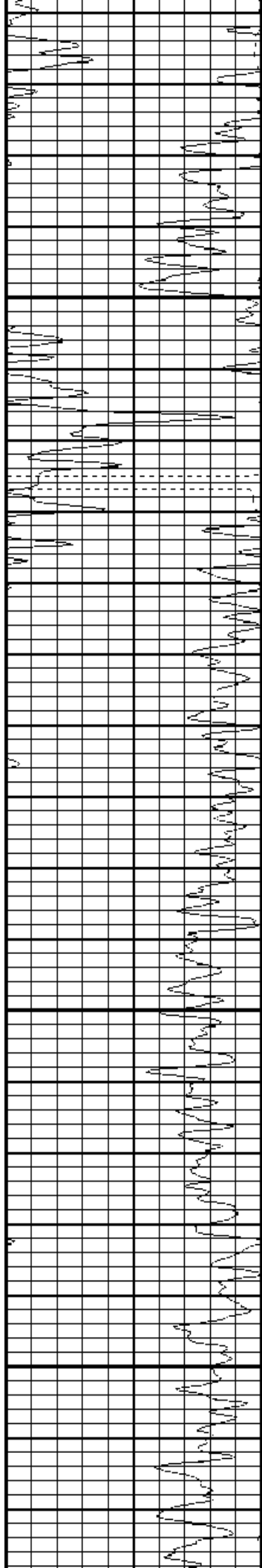
7150

7200

7250

7300



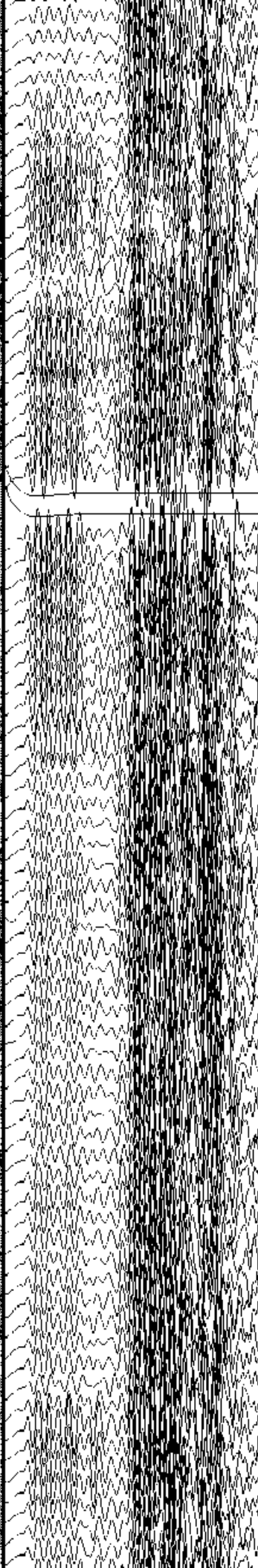
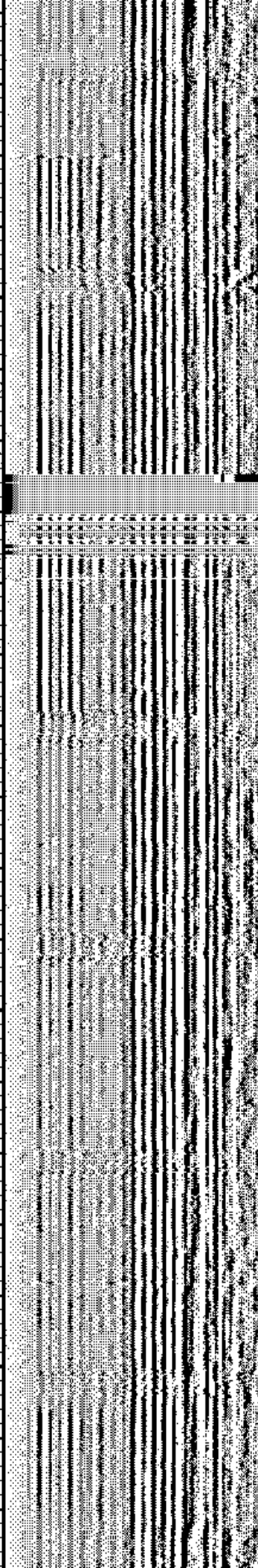
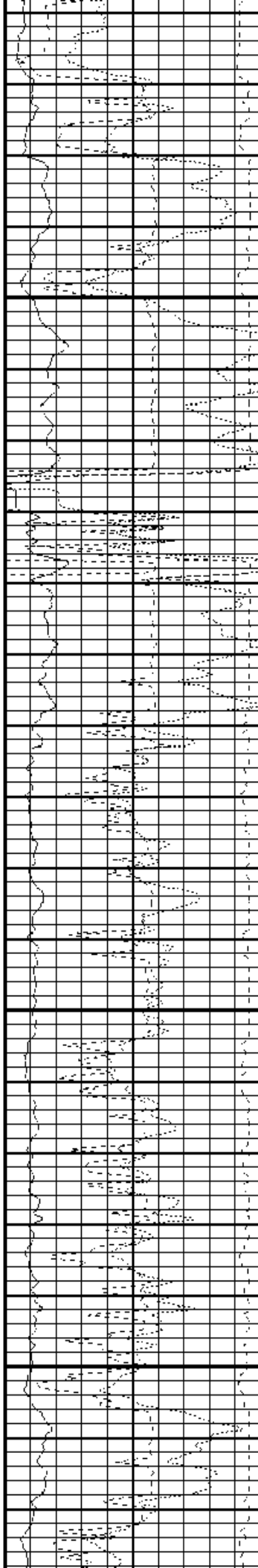


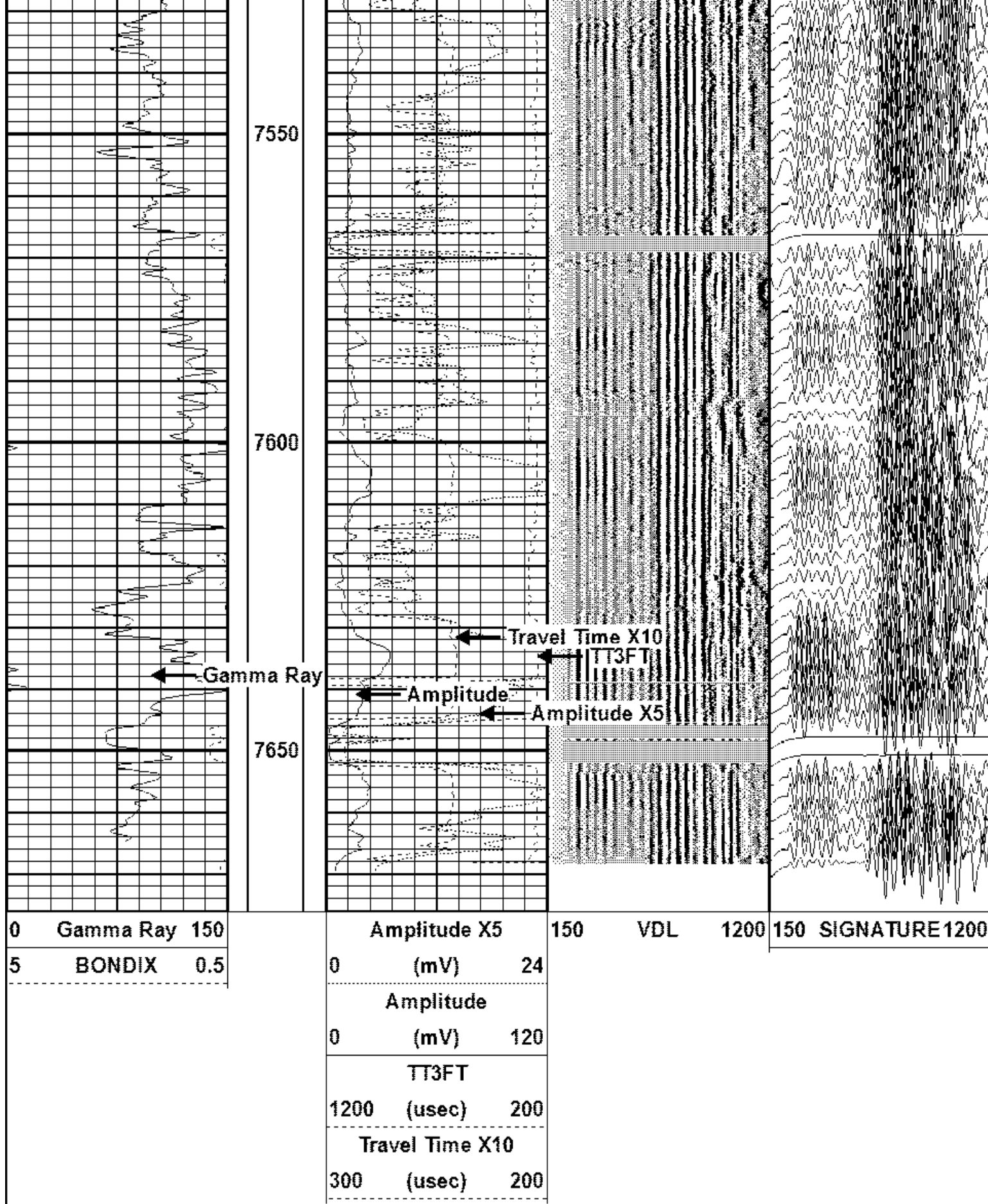
7350

7400

7450

7500





### Calibration Report

Database File encana e unit1.db  
 Dataset Pathname pass3  
 Dataset Creation Mon Jun 29 14:53:02 2015

# Gamma Ray Calibration Report

Serial Number: PRO1  
 Tool Model: Probe169  
 Performed: Fri May 31 16:31:53 2013  
  
 Calibrator Value: 1.0  
  
 Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps  
  
 Sensitivity: 1.0000 /cps

## Segmented Cement Bond Log Calibration Report

Serial Number: PRO1  
 Tool Model: Probe169  
  
 Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 1760.390 ft

Master Calibration, performed Mon Jun 29 14:23:59 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.064	1.373	0.450	112.000	77.632	5.393
CAL						
5'	-0.006	2.499	0.450	112.000	44.529	0.731
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Mon Apr 27 07:16:33 2015:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.000		0.000		0.000
5'	0.000		0.000		0.000
SUM					
S1					
S2					
S3					
S4					
S5					
S6					
S7					

