



# Sonic Cement Bond Log

(785) 625-3858

15-055-22,070-00-00

Company Hartman Oil Company, Inc.  
Well Damme #40  
Field Damme  
County Finney  
State Kansas

Location

335' FSL & 1500' FEL

Sec: 21 Twp: 22 S Rge: 33 W

Other Services

Perforate

Elevation

K.B. 2894  
D.F. 2893  
G.L. 2883

Permanent Datum Ground Level Elevation 2883  
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Run Number

One

Date Survey

5/18/2010

Date Cementing

5/7/2010

Type Cementing Operation

Primary

Depth Driller

4840

Depth Logger

4816

Logged Interval

4815 to 2250

Casing Driller

5.5 @ TD

Float Collar -- D.V. Tool

////

Squeeze Depth

////

Amount & Type Cement

////

Amount & Type Admix

////

Type Fluid In Hole

Water

Fluid Level

550

Salinity PPM CL

////

Weight lb/gal -- Vis.

////

Approx. Logged Cement Top

3148 / 2406

Calculated Cement Top

////

Max. Hole Temperature

118

Tool No.

R-1

Spacing Recorded

3-5

Equipment -- Location

72 Hays

Recorded By

T. Martin

Witnessed By

Stan Mitchell

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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.

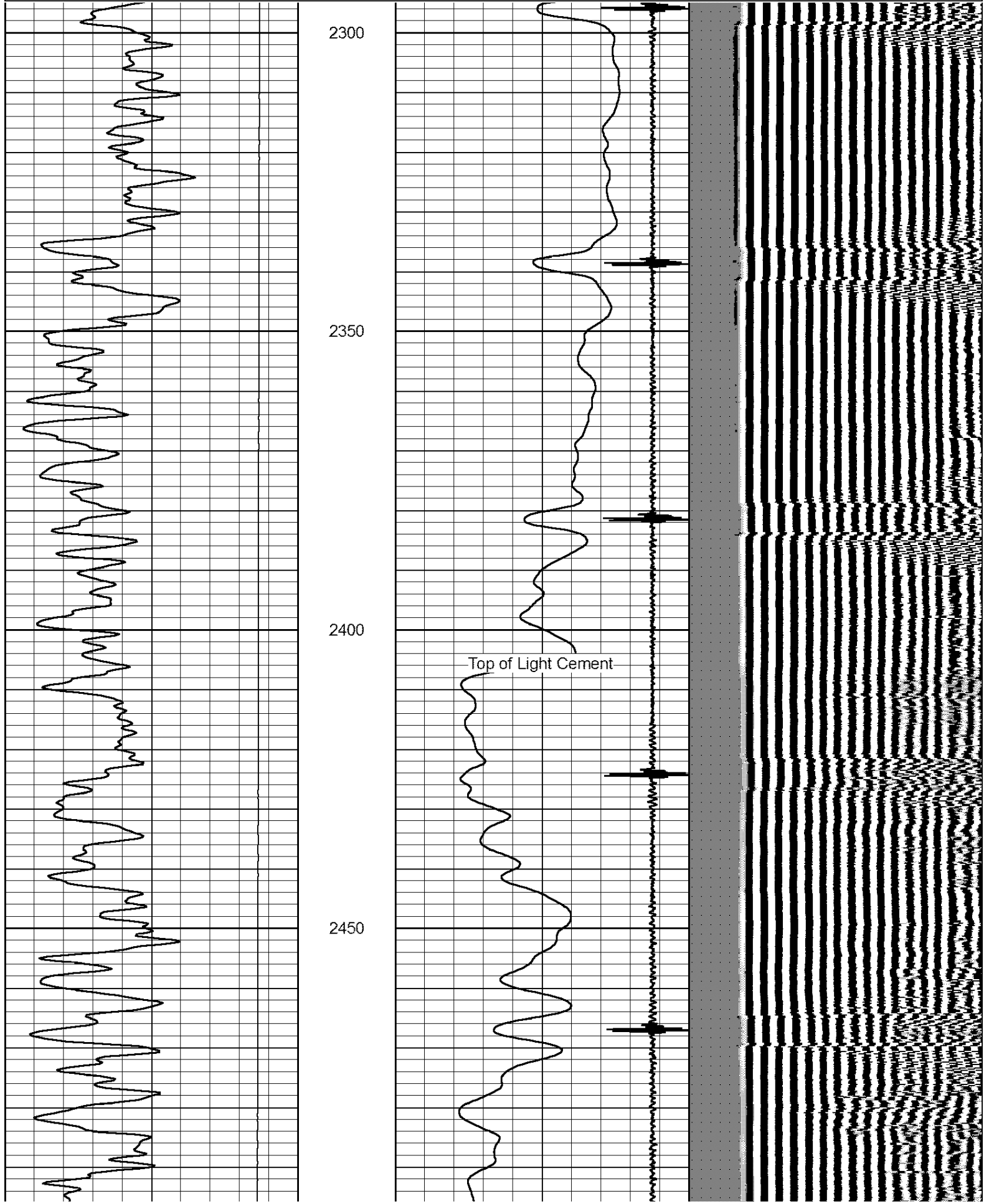
## Comments

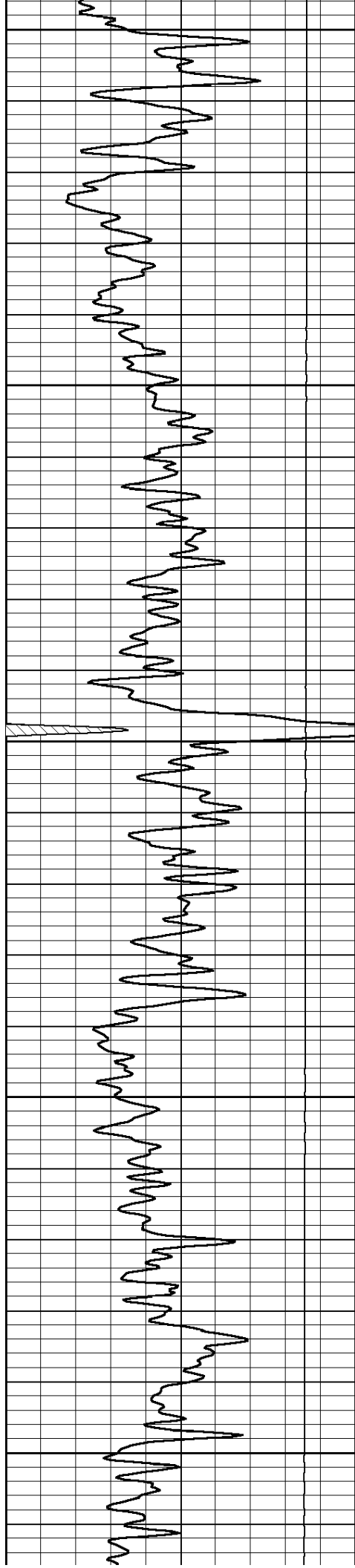
Thank you for using LOG TECH, INC. 785.625.3858

Garden City, N to mm 80, 3 W, 1 N, 1/2 W, N into

Database File: hartman\_damme\_#40.db  
Dataset Pathname: grcbl/pass3  
Presentation Format: cblbr  
Dataset Creation: Tue May 18 09:31:47 2010 by Log Std Casedhole 07122  
Charted by: Depth in Feet scaled 1:240

|             |           |                             |         |   |                          |      |     |        |      |
|-------------|-----------|-----------------------------|---------|---|--------------------------|------|-----|--------|------|
| Charted by: |           | Depth in Feet scaled 1:1.25 |         |   |                          |      |     |        |      |
| 0           | Gamma Ray | 150                         | amp3ft  | 5 | Casing Collars           | -0.7 | 200 | wvf5ft | 1200 |
|             |           |                             | (mV)    | 0 | Amplified Amplitude (mV) | 100  |     |        |      |
|             |           |                             | -100 10 | 0 | Pipe Amplitude (mV)      | 20   |     |        |      |
|             |           |                             |         |   |                          |      |     |        |      |





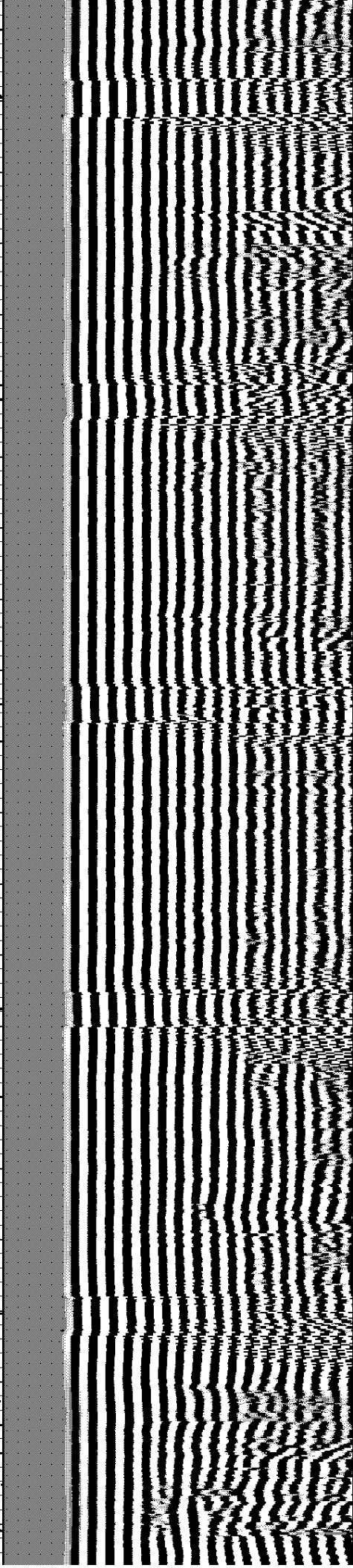
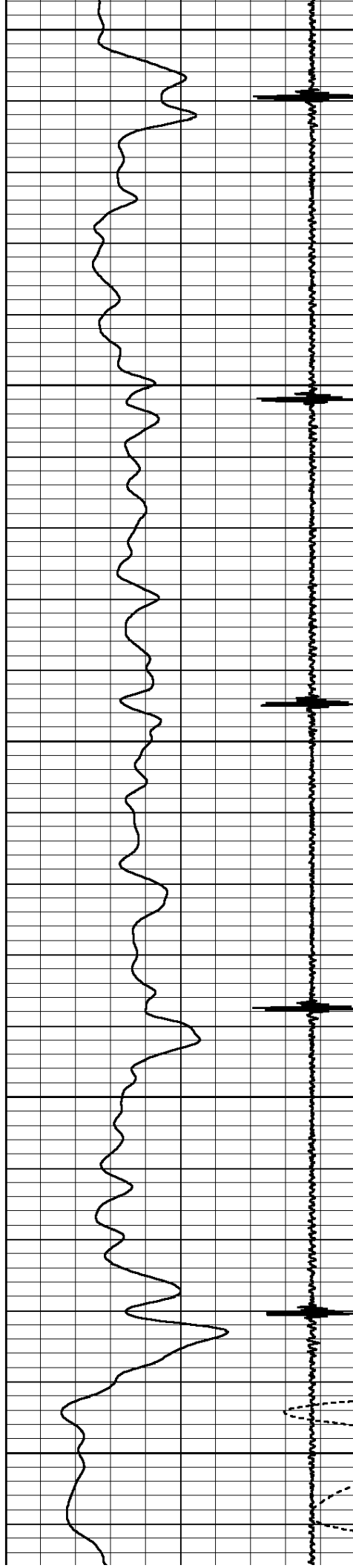
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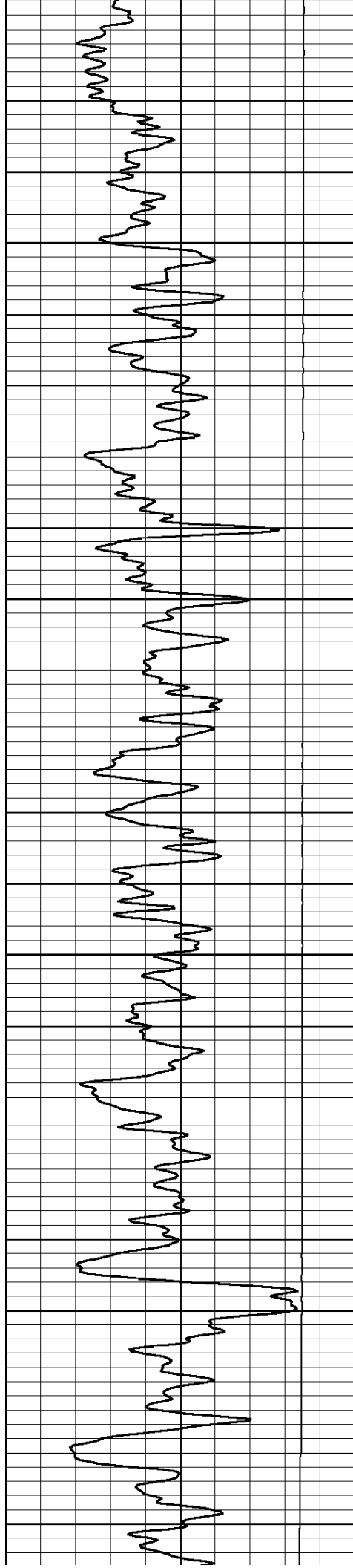
2550

2600

2650

2700



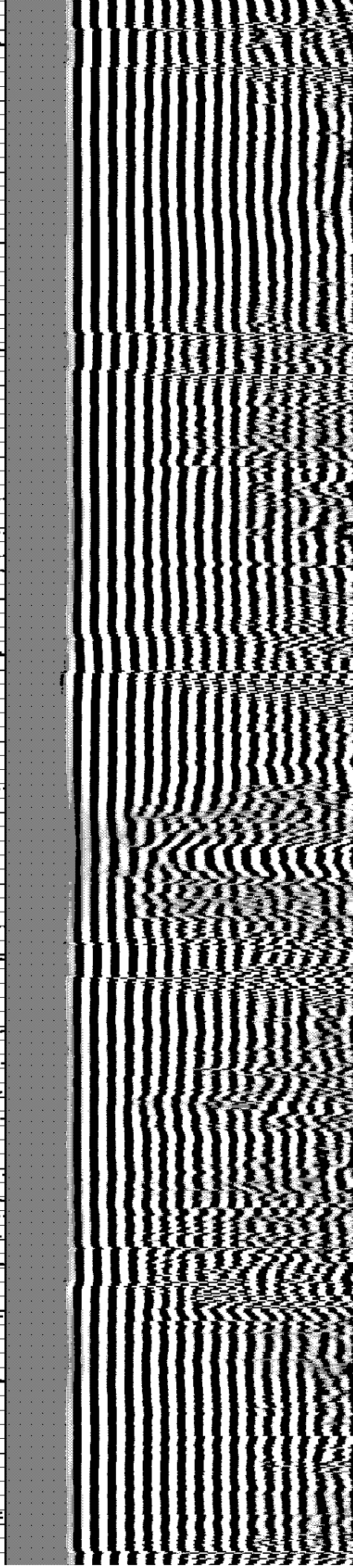
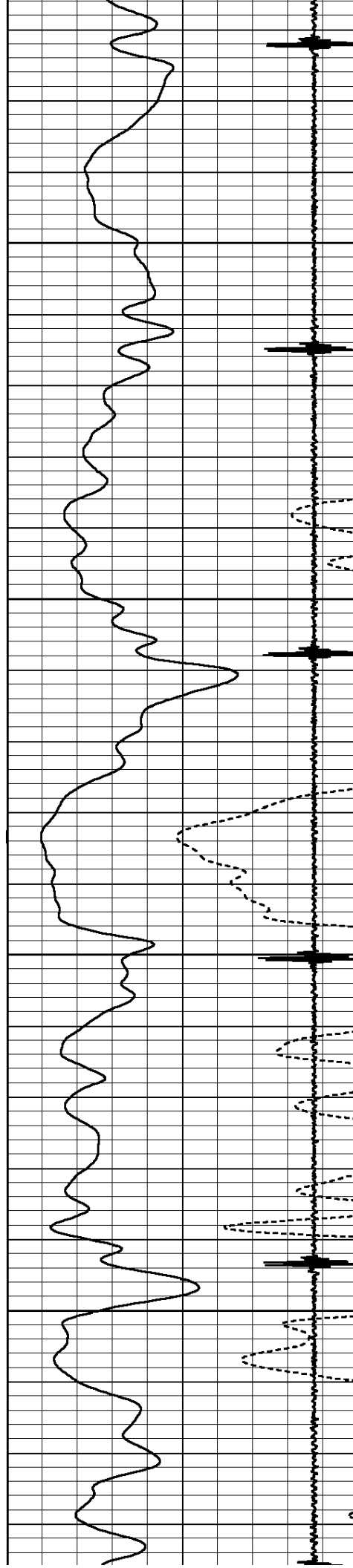


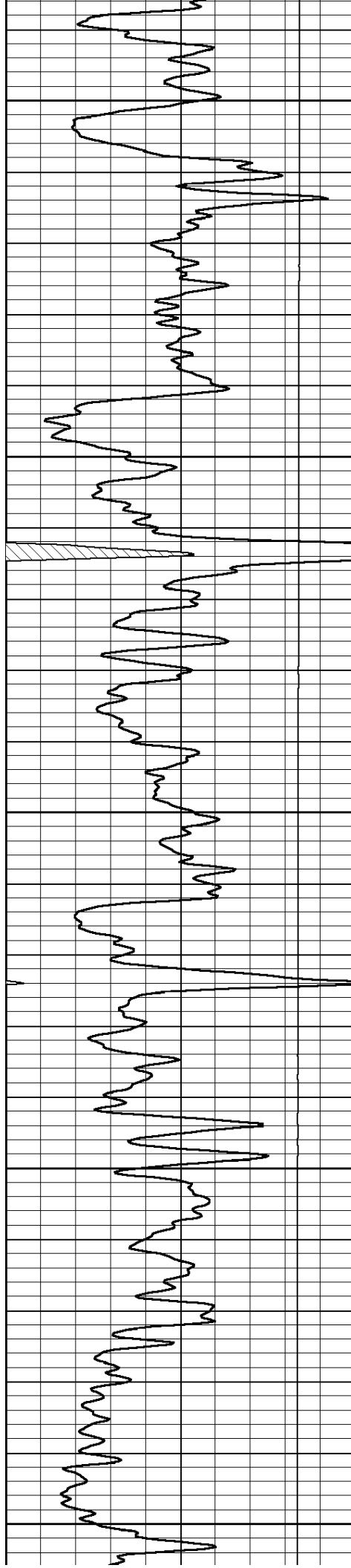
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2800

2850

2900





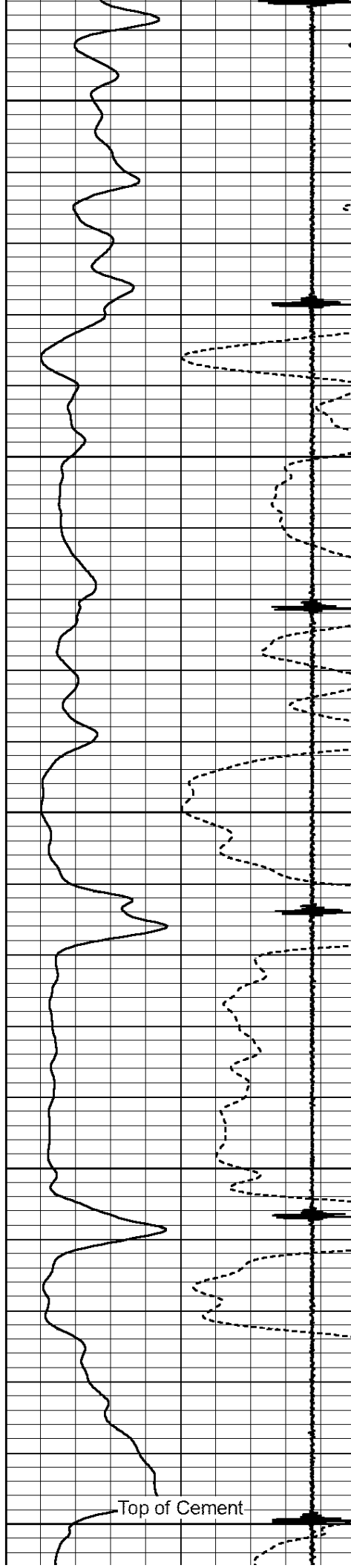
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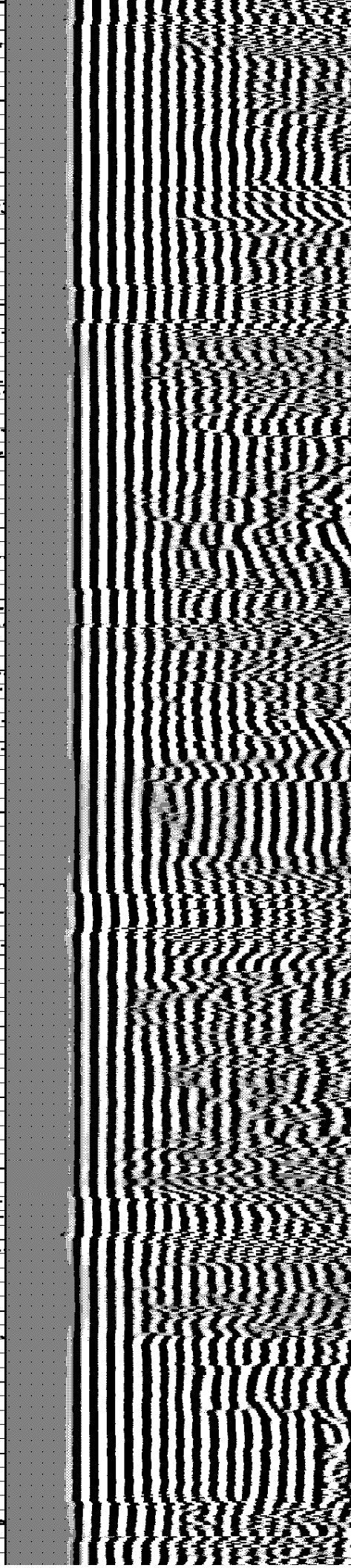
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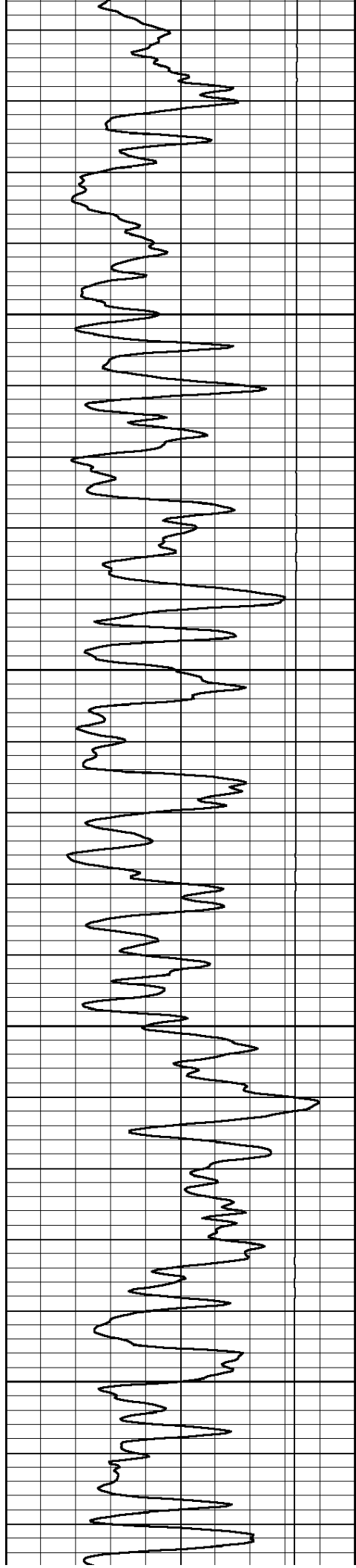
3100

3150



Top of Cement



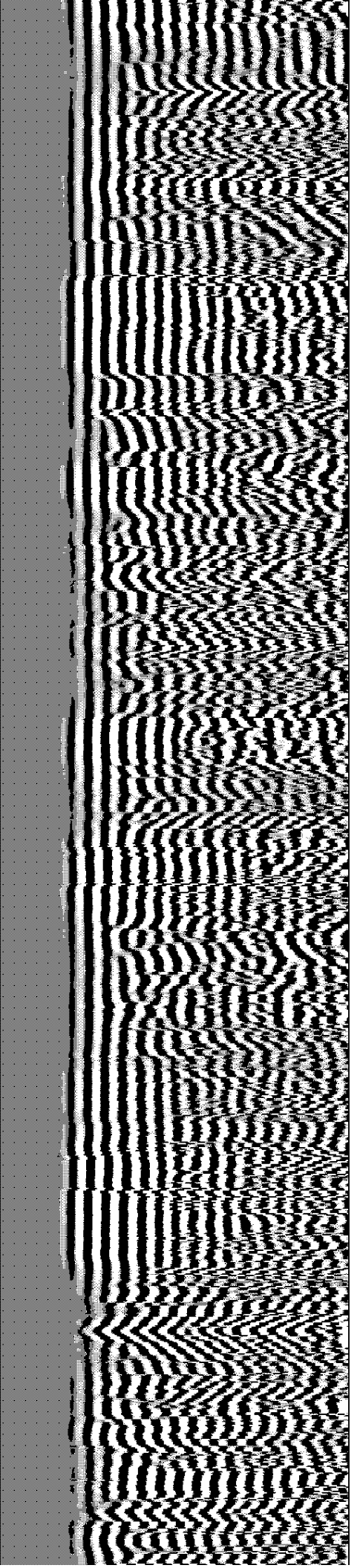
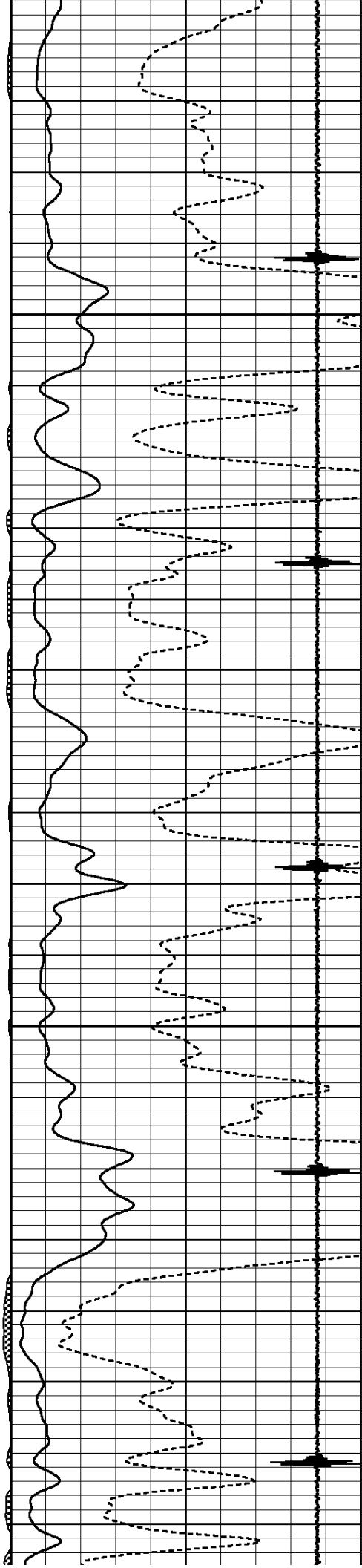


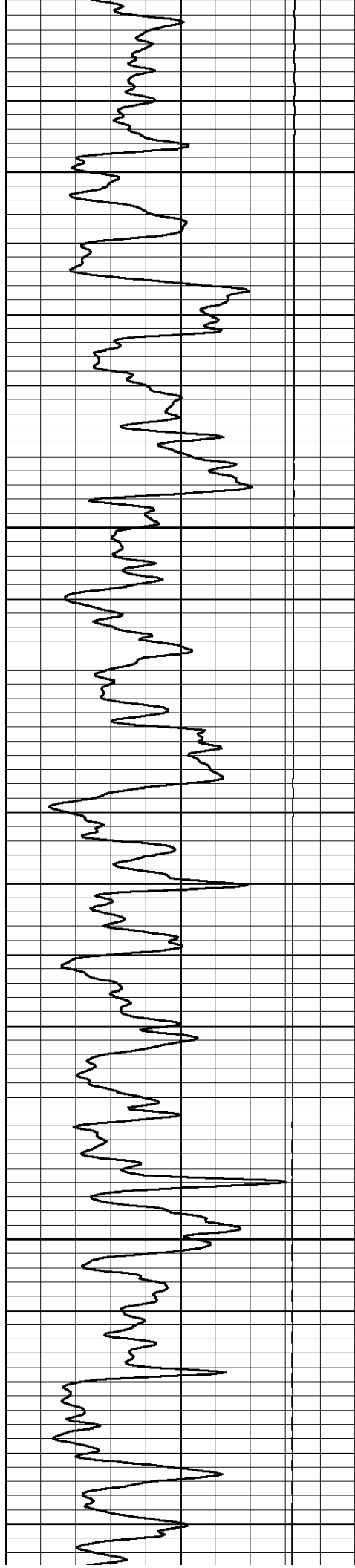
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3250

3300

3350



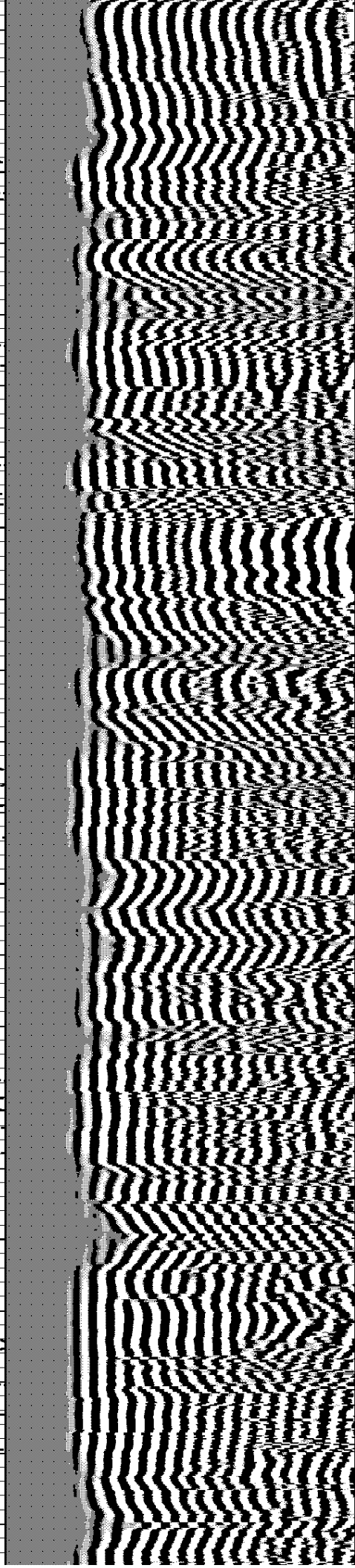
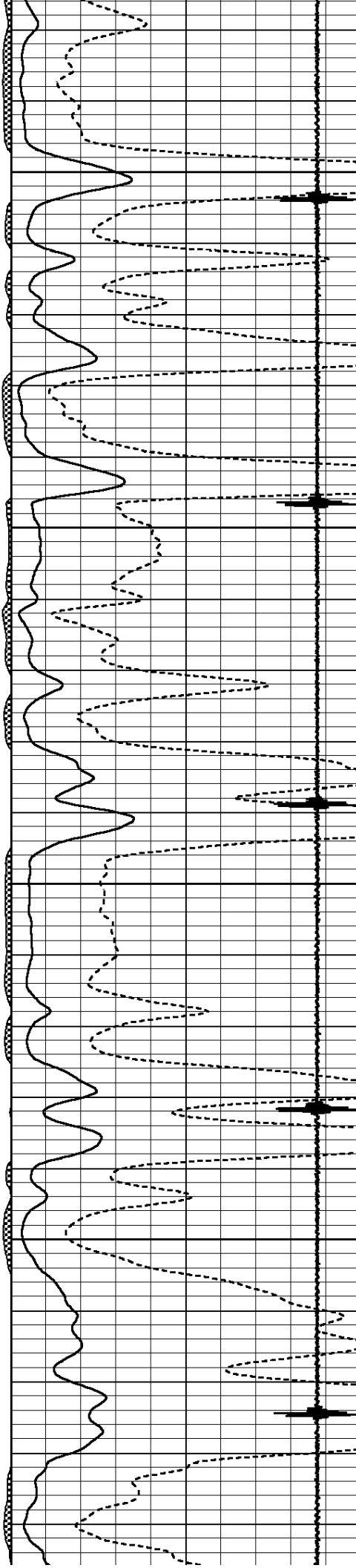


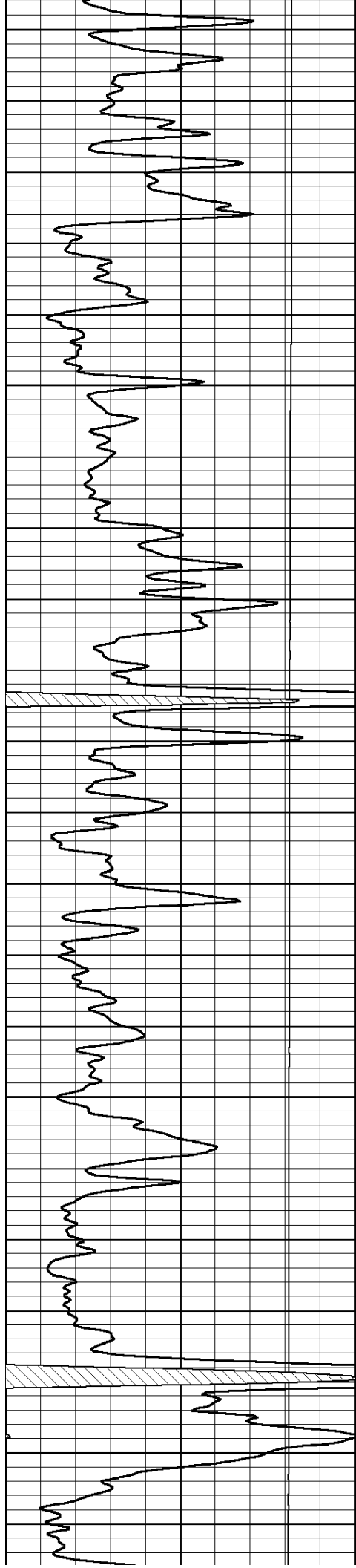
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3450

3500

3550





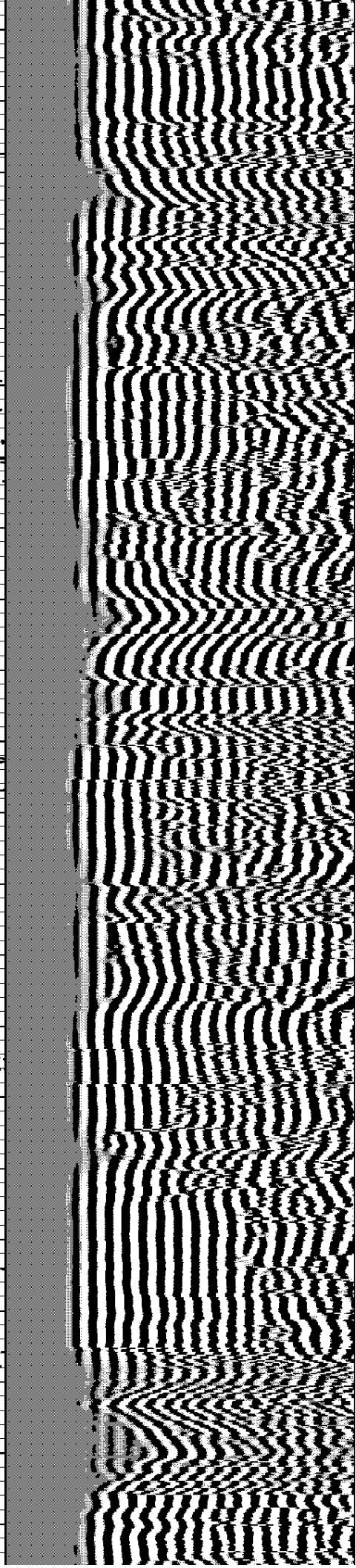
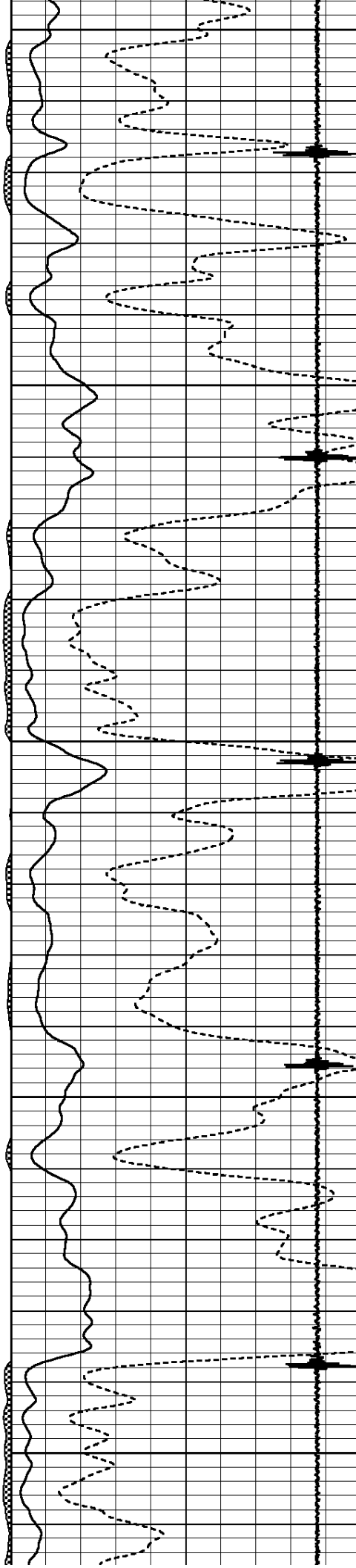
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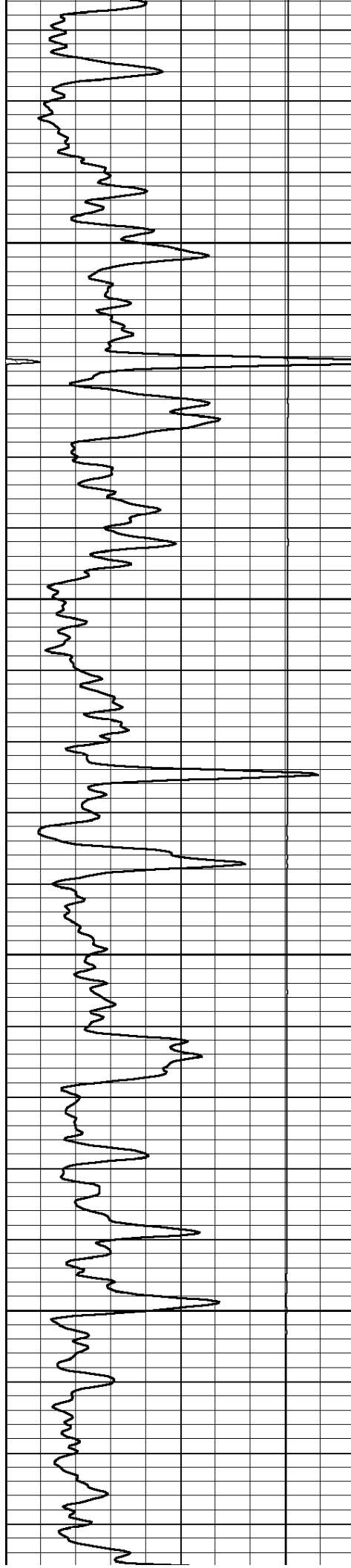
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3700

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3800



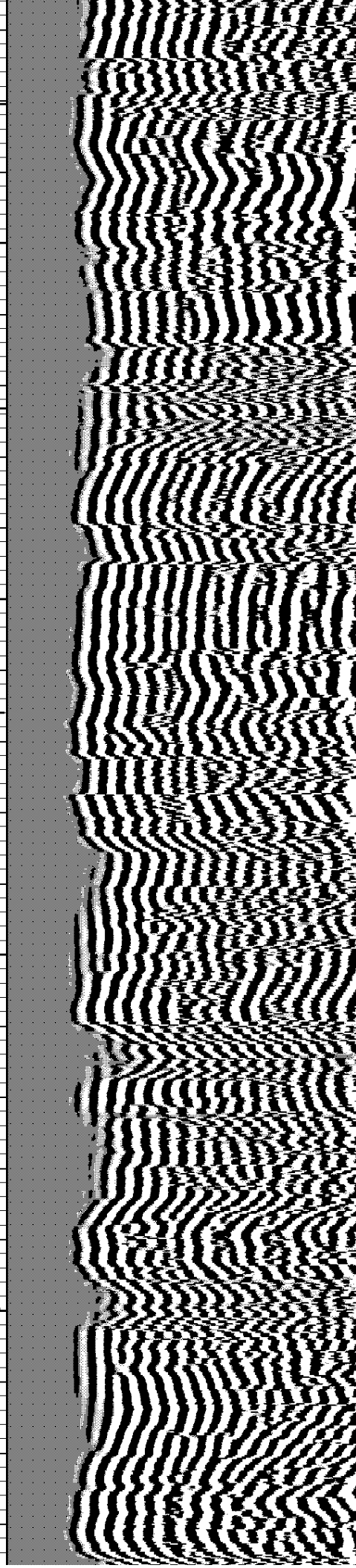
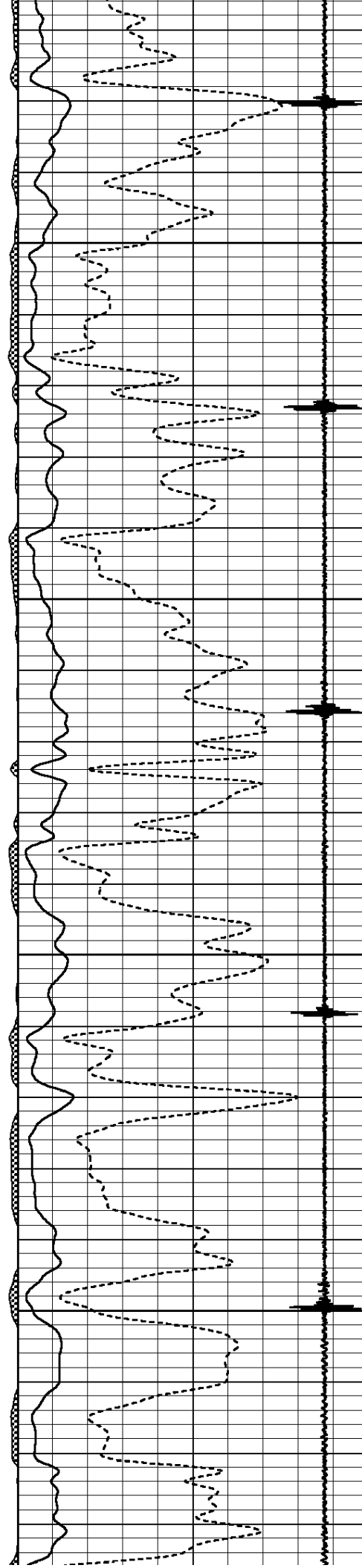


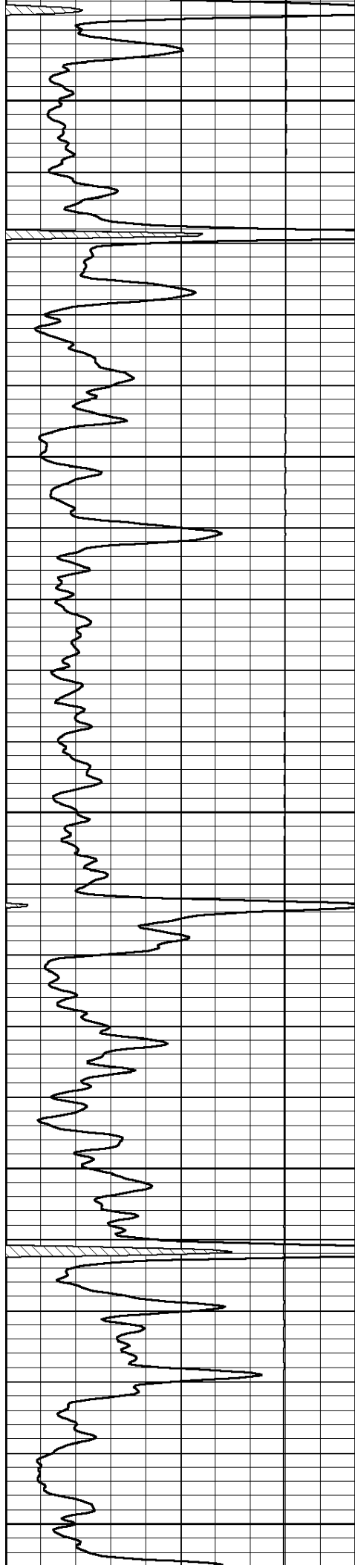
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3900

3950

4000





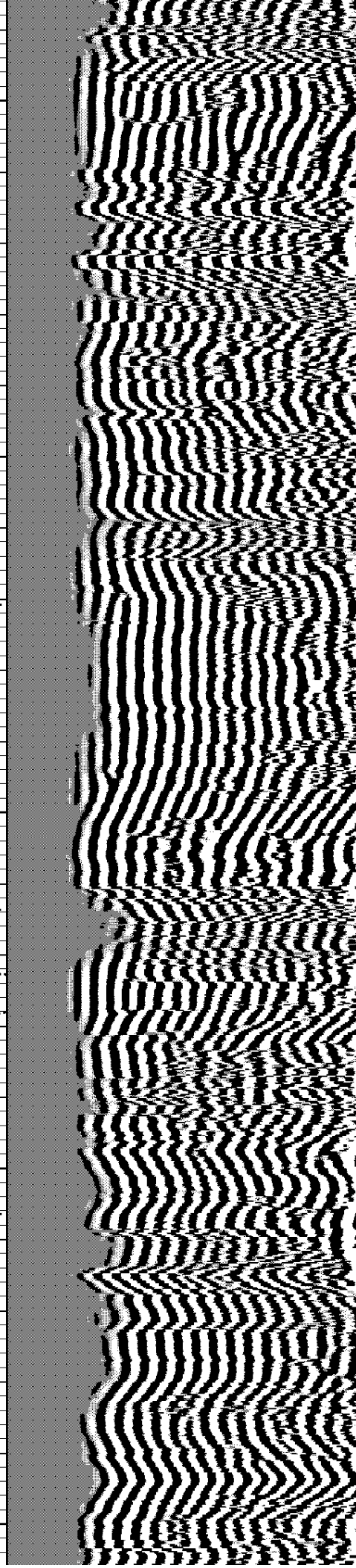
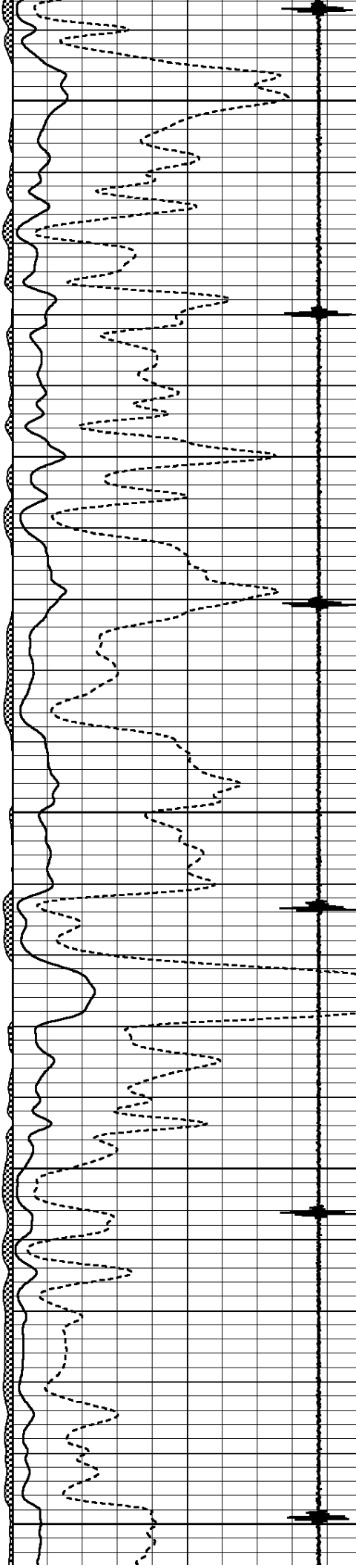
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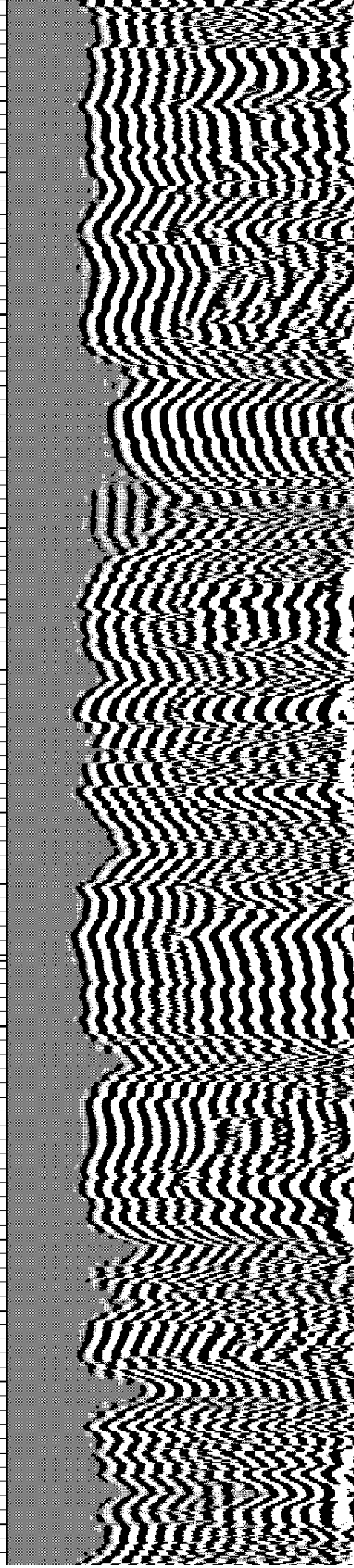
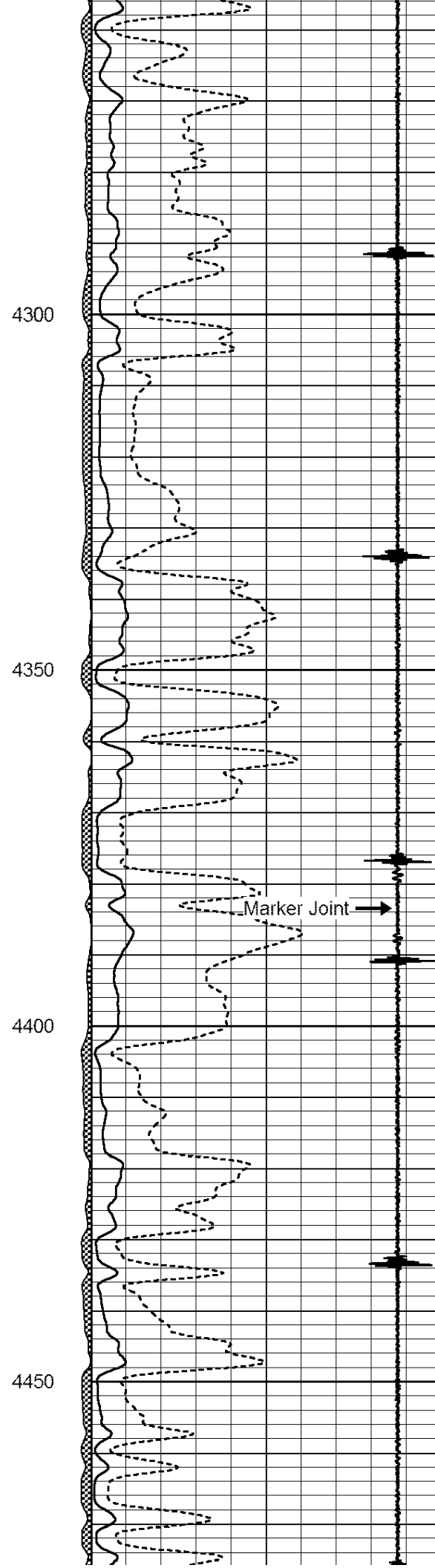
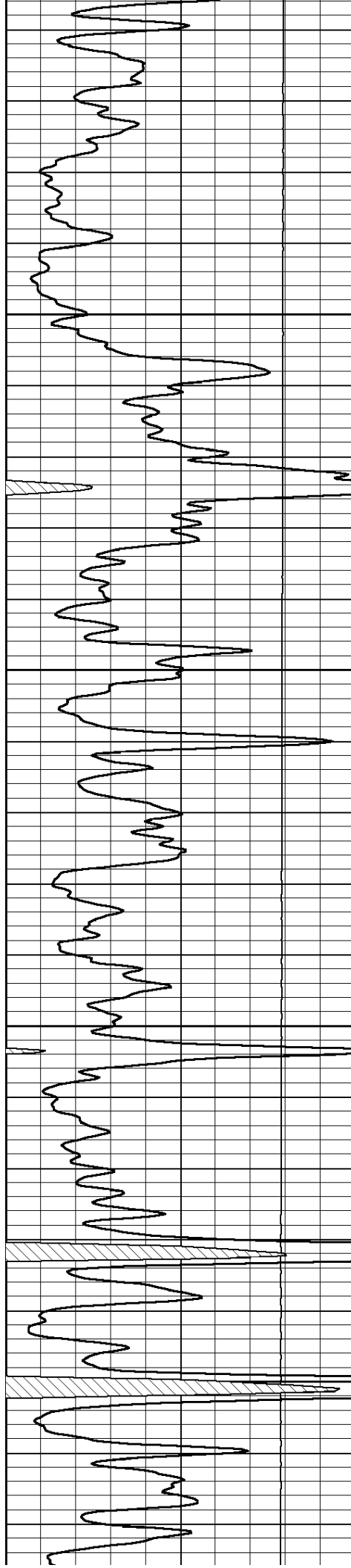
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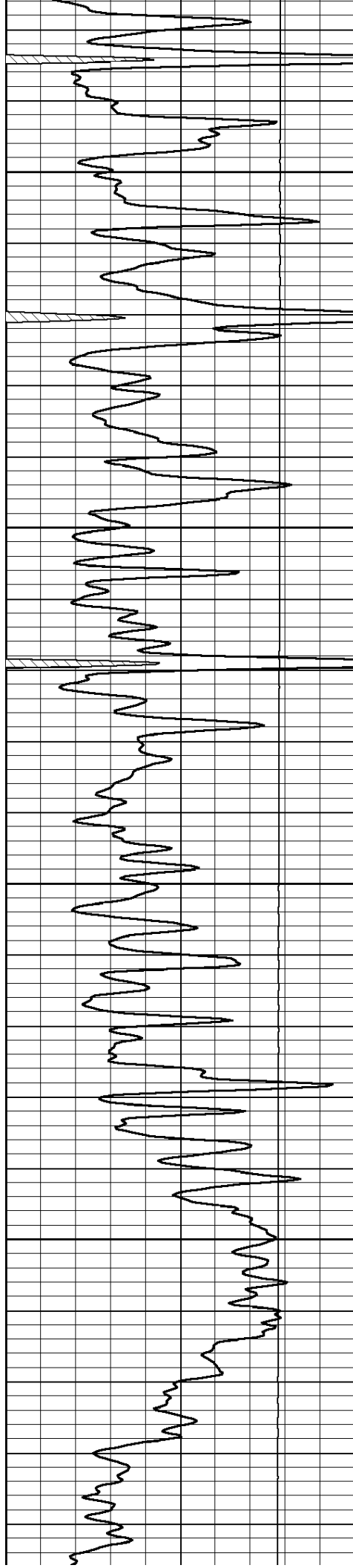
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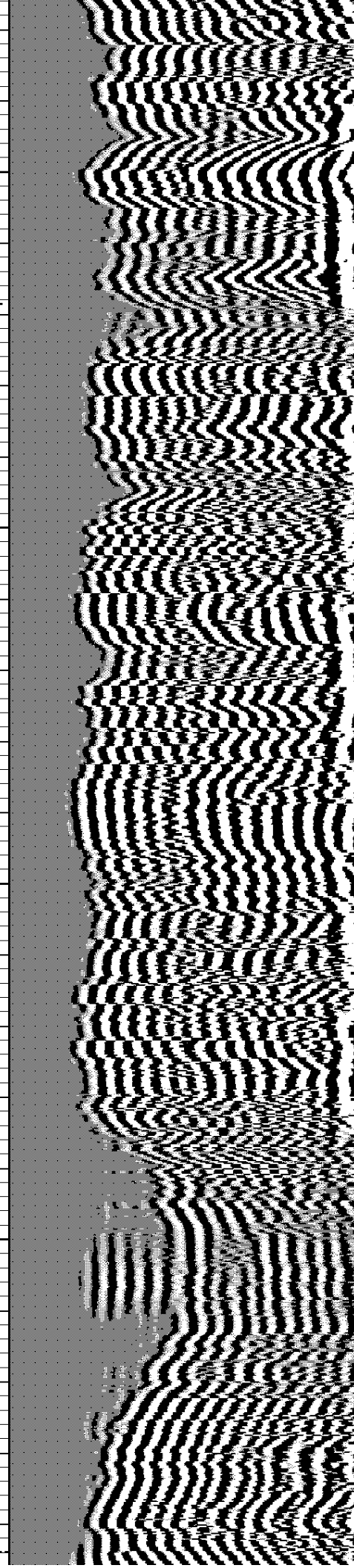
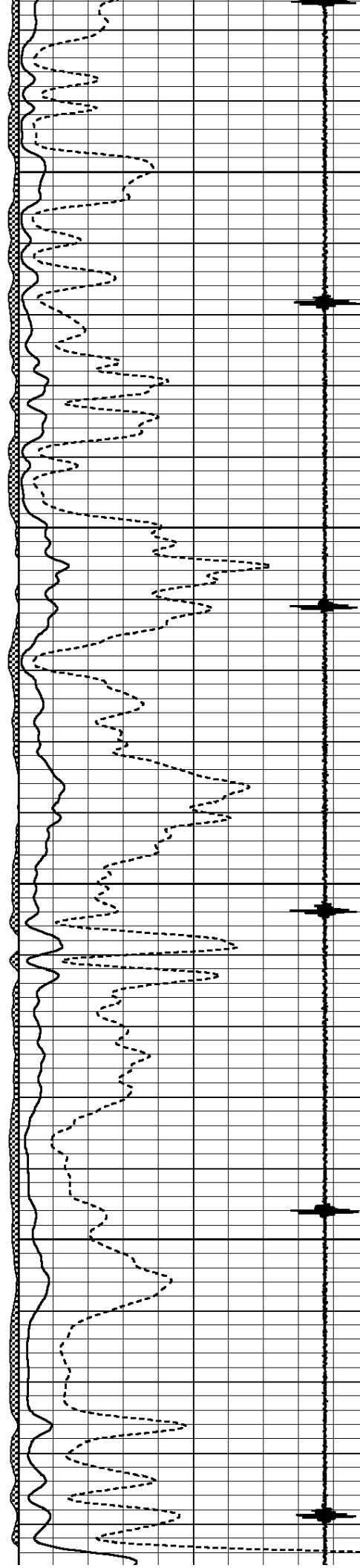
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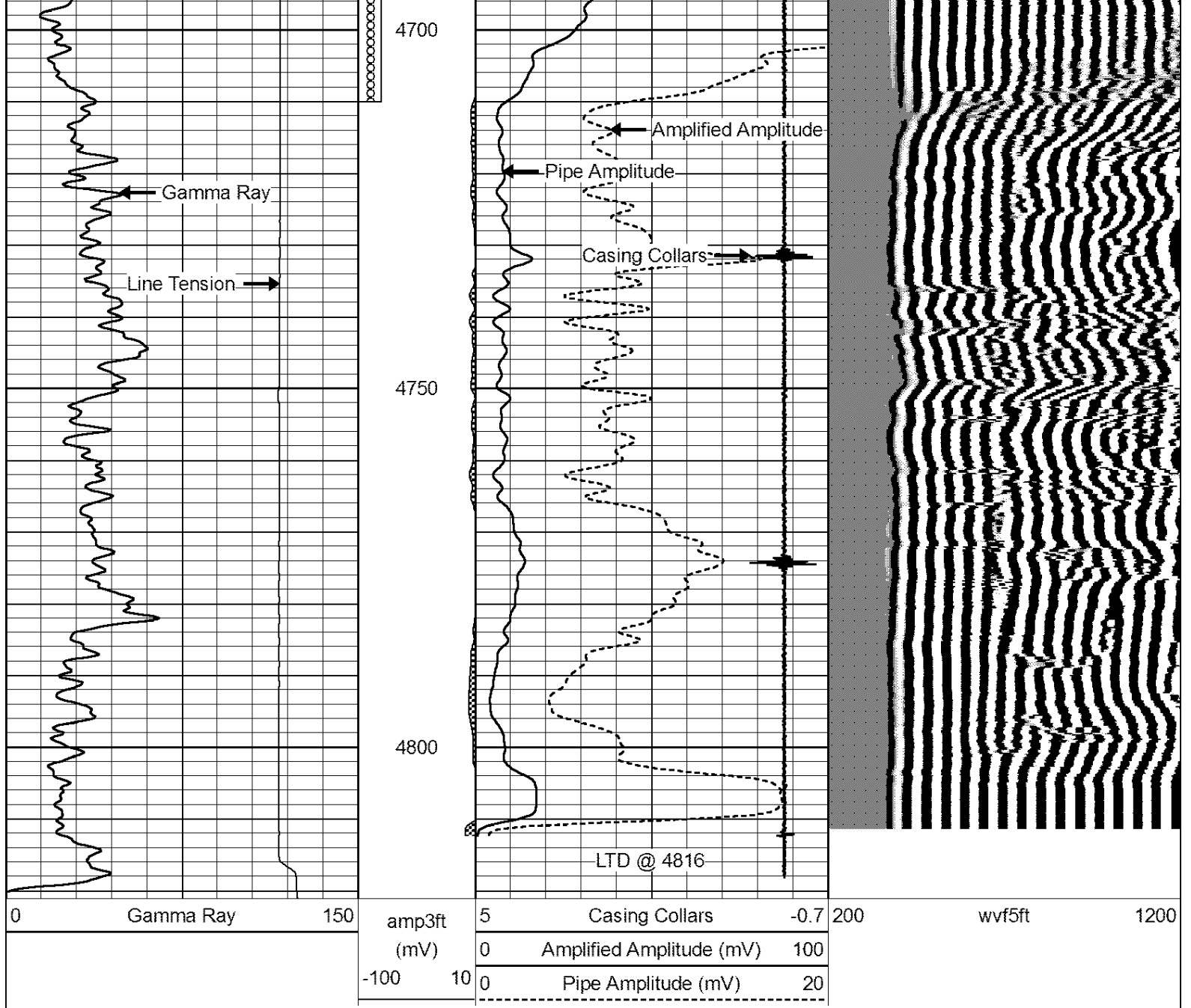
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4600

4650

81

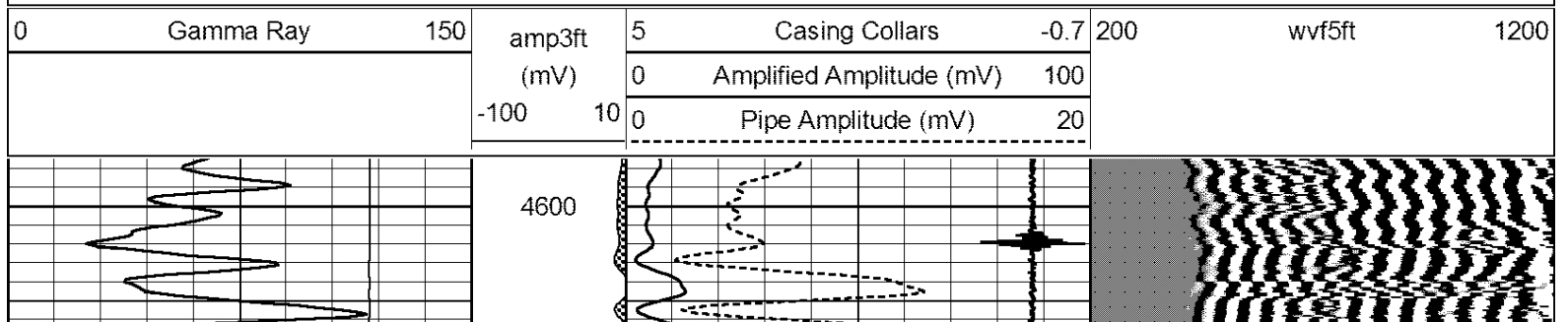


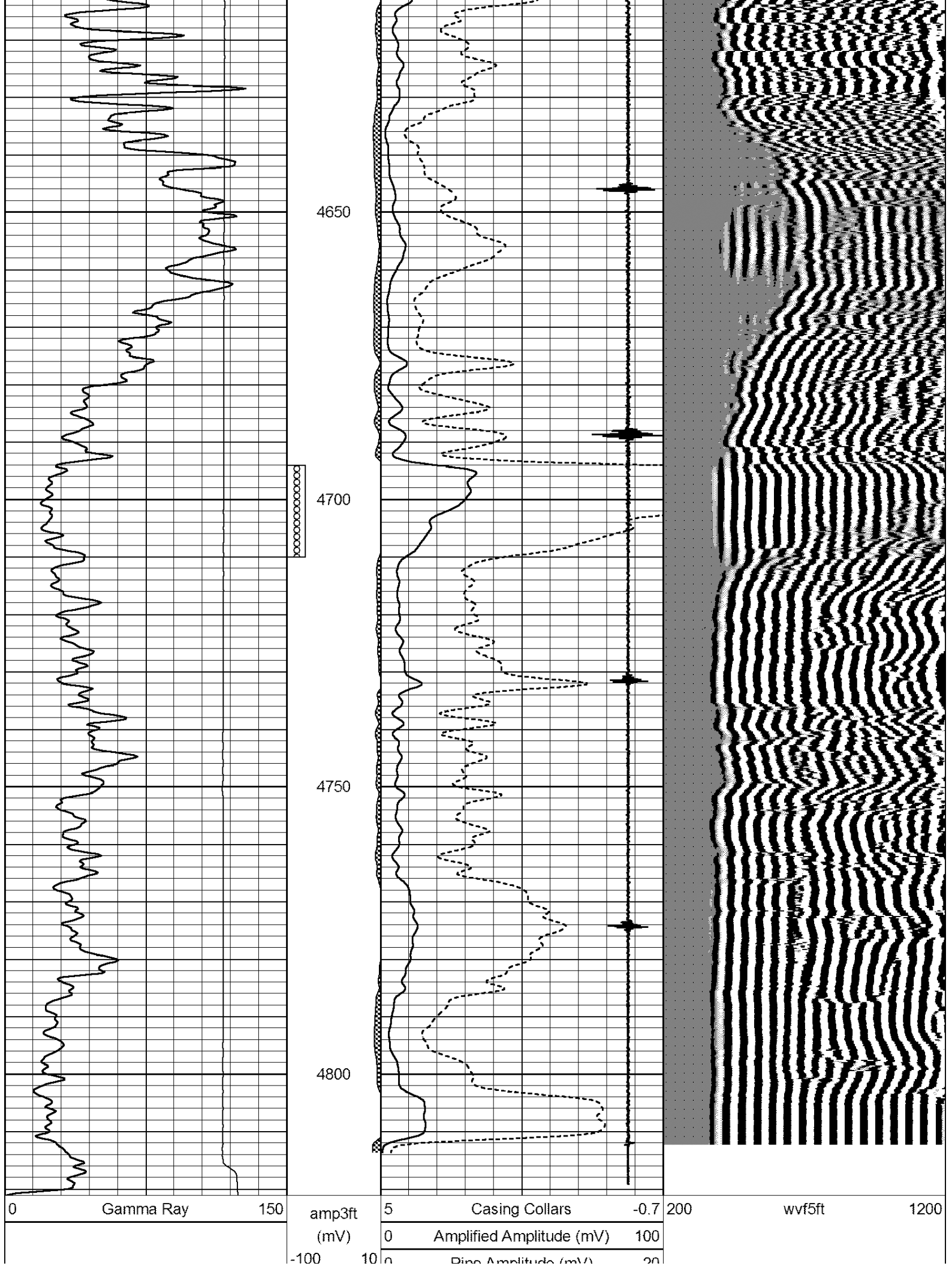


**LOG-TECH**

## Repeat Section

Database File: hartman\_damme\_#40.db  
 Dataset Pathname: grcbl/pass2  
 Presentation Format: cblbr  
 Dataset Creation: Tue May 18 09:23:30 2010 by Log Std Casedhole 07122  
 Charted by: Depth in Feet scaled 1:240





|                          |    |
|--------------------------|----|
| TYPE A: 11/10/10 (11/10) | 20 |
|--------------------------|----|