

HALLIBURTON

Cement Bond
Gamma Ray
CCL

Company		Kerr-McGee Oil & Gas Onshore	
Well		Frank 35-31	
Field		Wattenberg	
County		Weld	State CO
Company		Kerr-McGee Oil & Gas Onshore	
Well		Frank 35-31	
Field		Wattenberg	
County		Weld	State CO
API No.: 05-123-29502		Serv #: 6485639	
Location: SHL: 613' FSL & 2046' FVL SE SW		Other Services	
Sec: 31 Twp: 4N Rge: 67W		Perf	
Permanent Datum	G.L.	Elevation	4930
Log Measured From	K.B.	12 Ft. above perm. datum	K.B. 4942 D.F. 4941 G.L. 4930
Drilling Measured From	K.B.		
Date @ Time Logged	4-Feb-09	Type Fluid In Hole	Water
Run No.	One	Density of Fluid	8.4
Depth - Driller	7510	Fluid Level	Surface
Depth - Logger	7412	Cement Top Est. Logged	1694
Bottom - Logged Interval	7410	Equipment / Location	10011238 / Brighton
Top - Log Interval	1400	Recorded by	N. Pataluna
Max. Recorded Temp.	226	Witnessed by	Lewis Camp
CEMENTING DATA	Surface	Protection	Liner
Date / Time Cemented	String	String	
Primary / Squeeze			
Expected			
Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume			
Cement Type / Weight	/	/	/
Formulation			
Mud Type / Mud Wgt.	/	/	/
Borehole Record		Casing & Tubing Record	
Run Number	Bit From To	Size 4.5	Weight 11.6 From Surface To TD

<<< Fold Here >>>

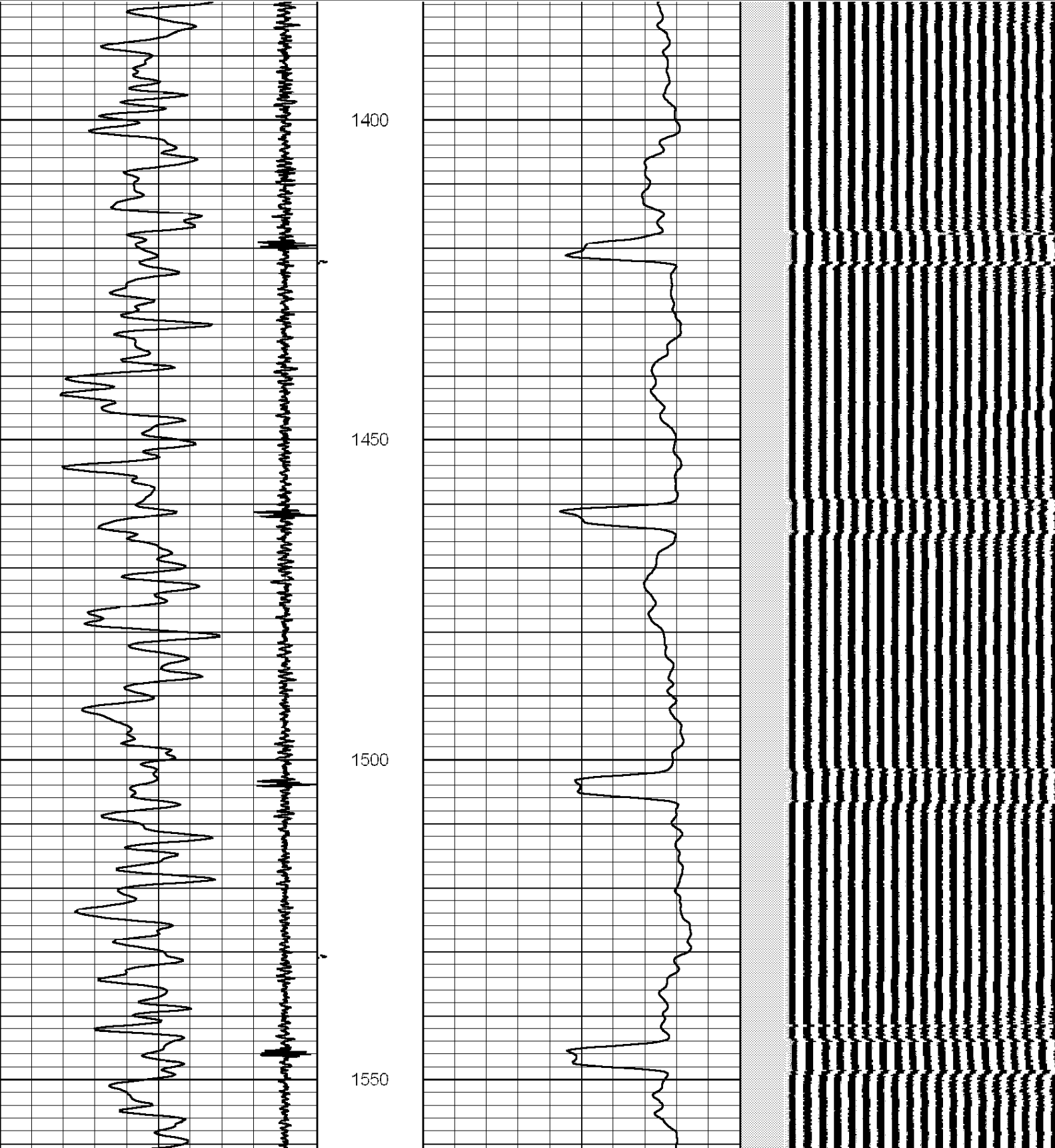
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

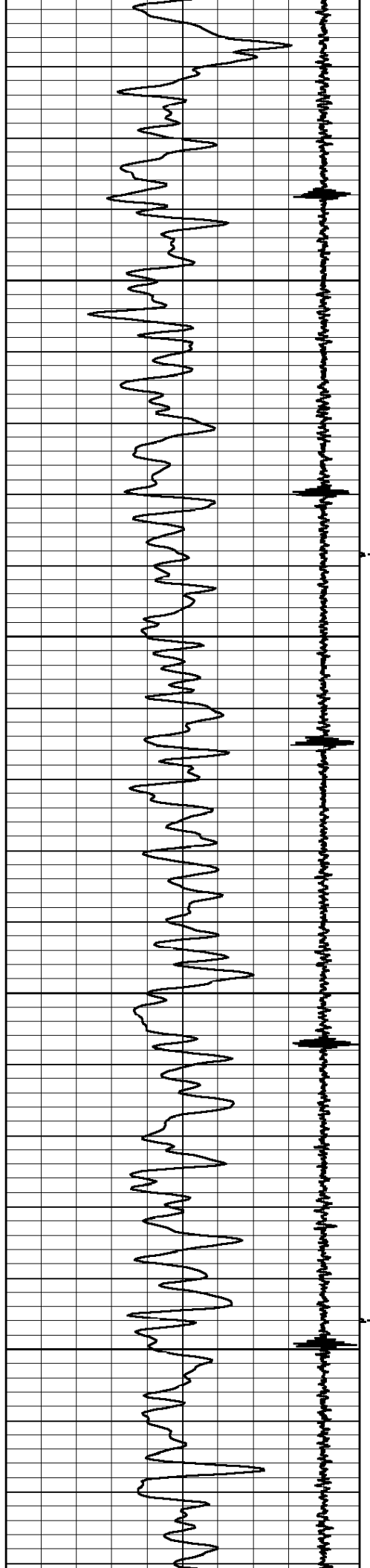
Comments

Dep ref to PSI log date 24-Jan-09
Thank you for using Halliburton
Crew: Pataluna, Smith

Database File:	kerr-mcgee frank 35-31 cbl.db
Dataset Pathname:	pass4
Presentation Format:	nick_cbl
Dataset Creation:	Wed Feb 04 08:36:08 2009 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	Variable Density	1200
30	GR (GAPI)	130	0	Amplified Amplitude (mV)	10			
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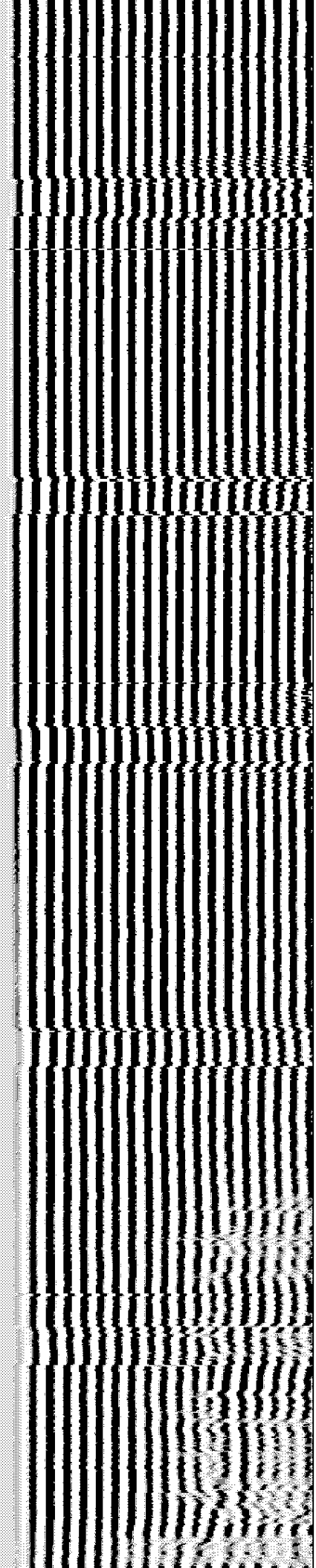
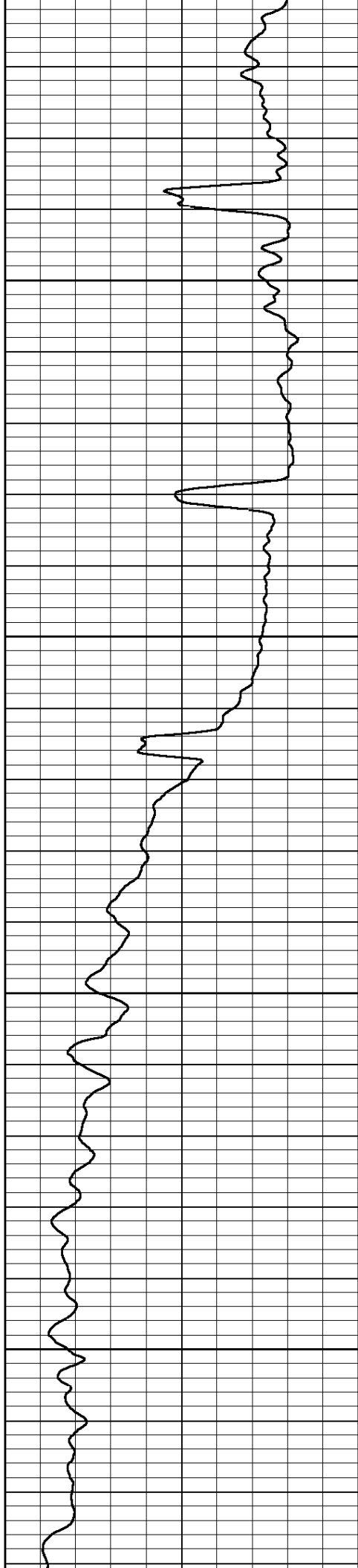


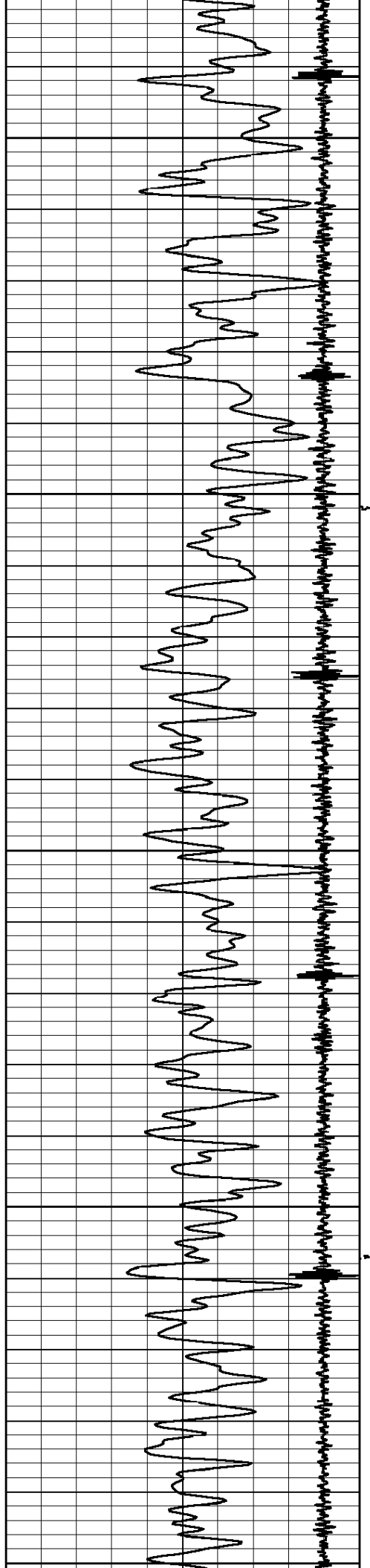
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1650

1700

1750





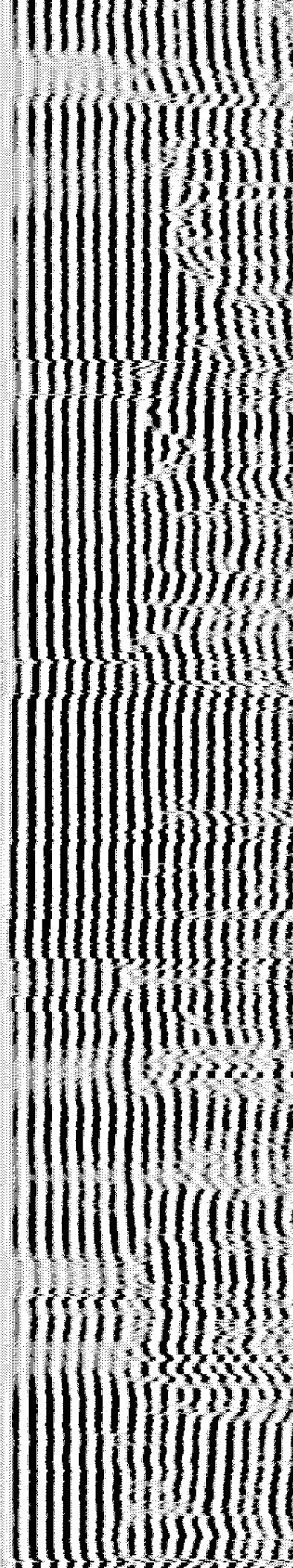
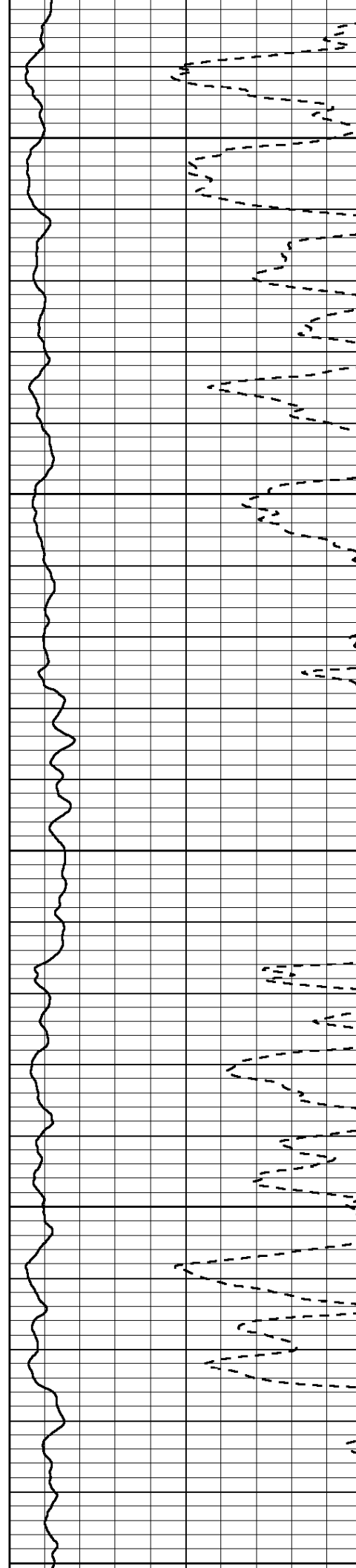
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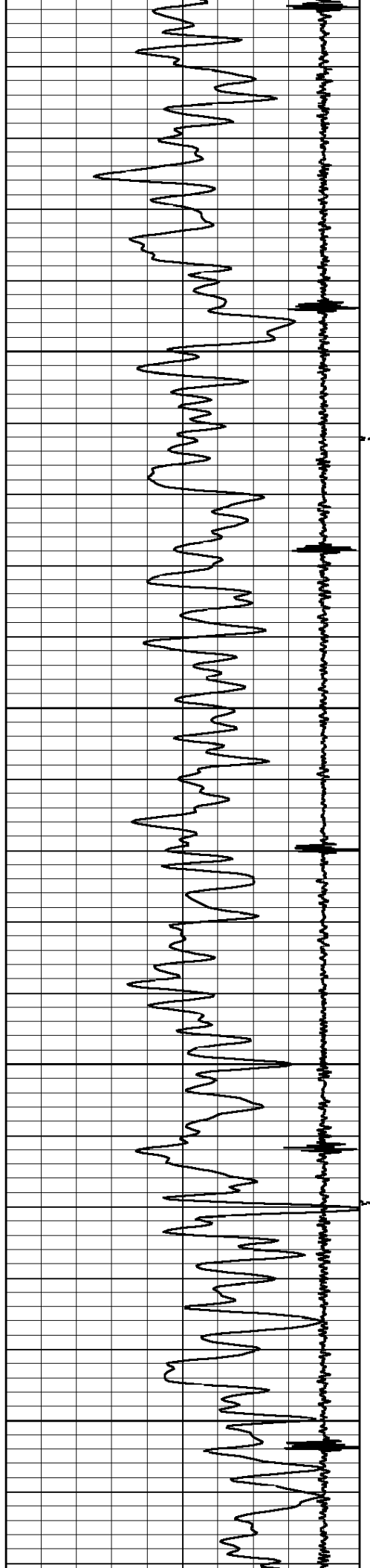
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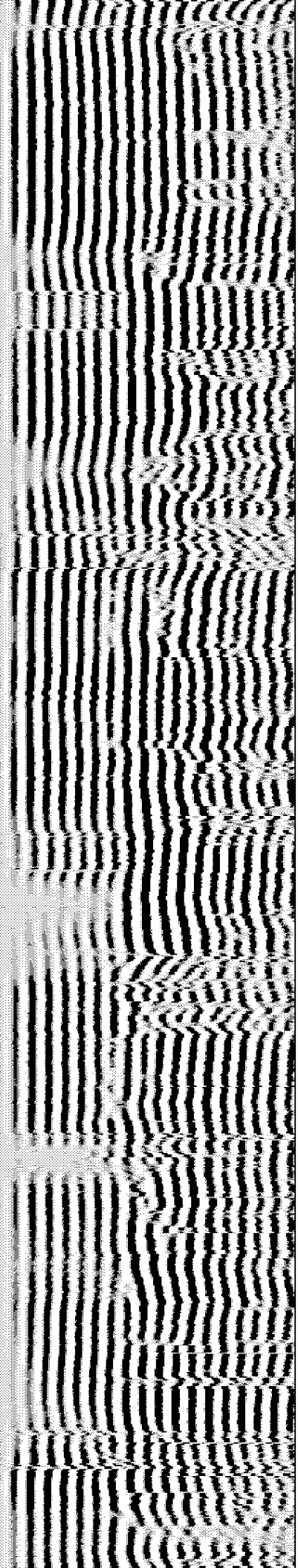
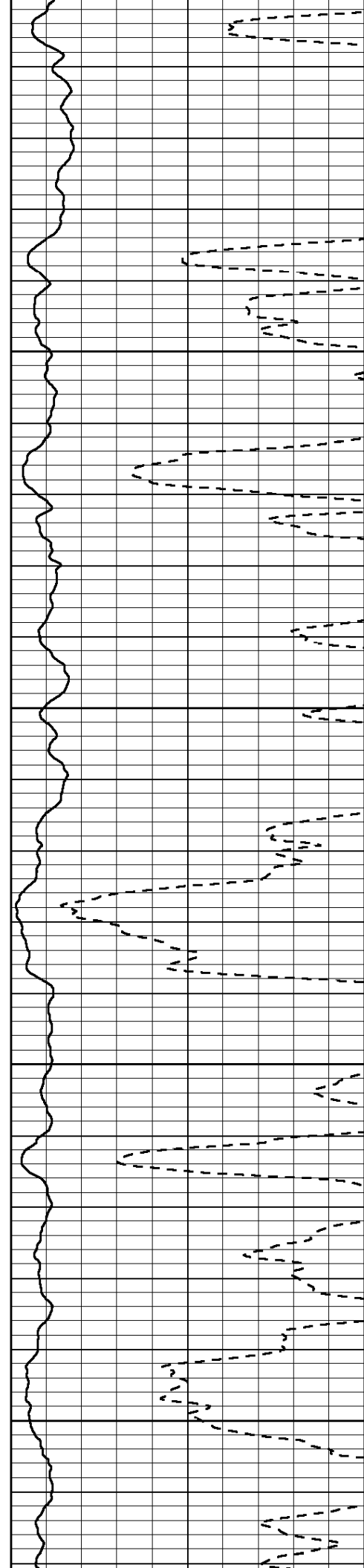
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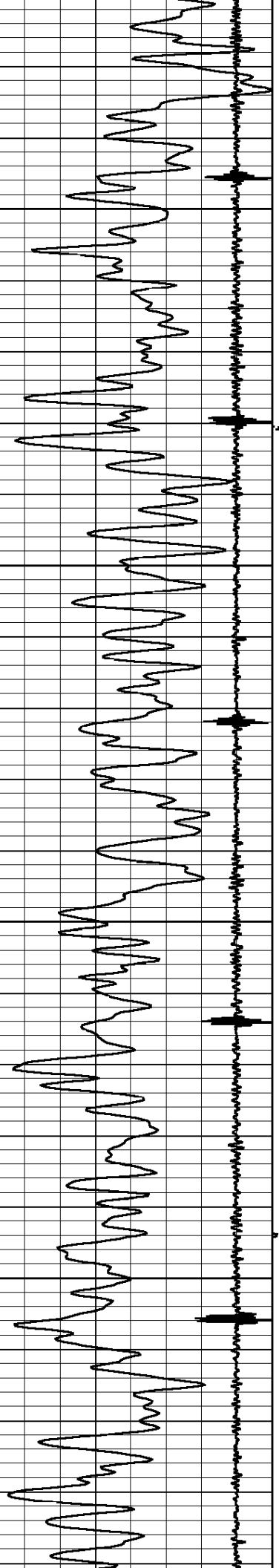
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2050
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2150
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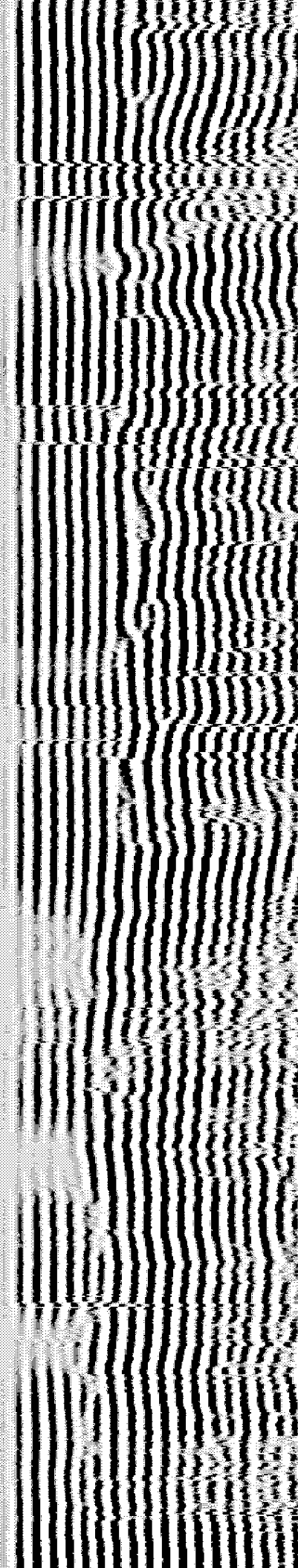
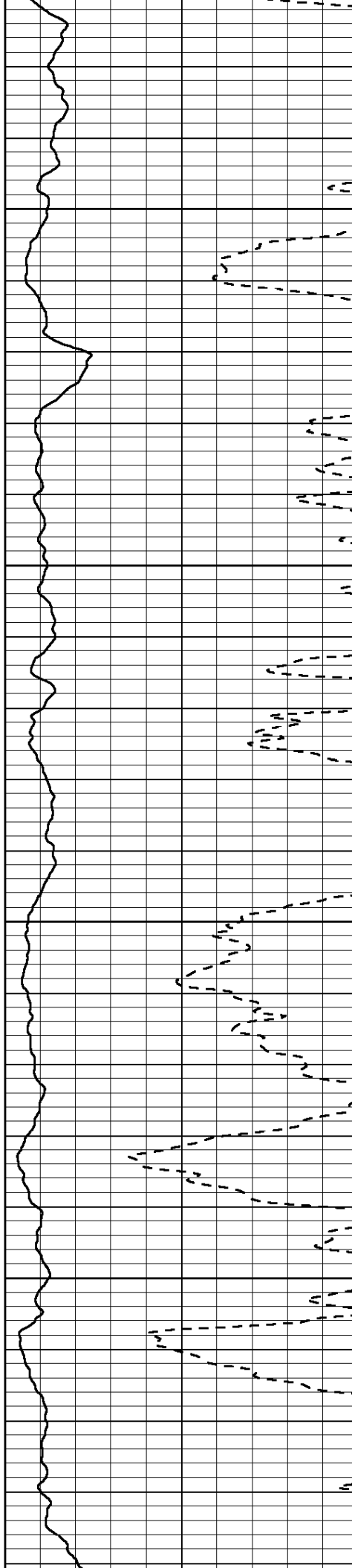


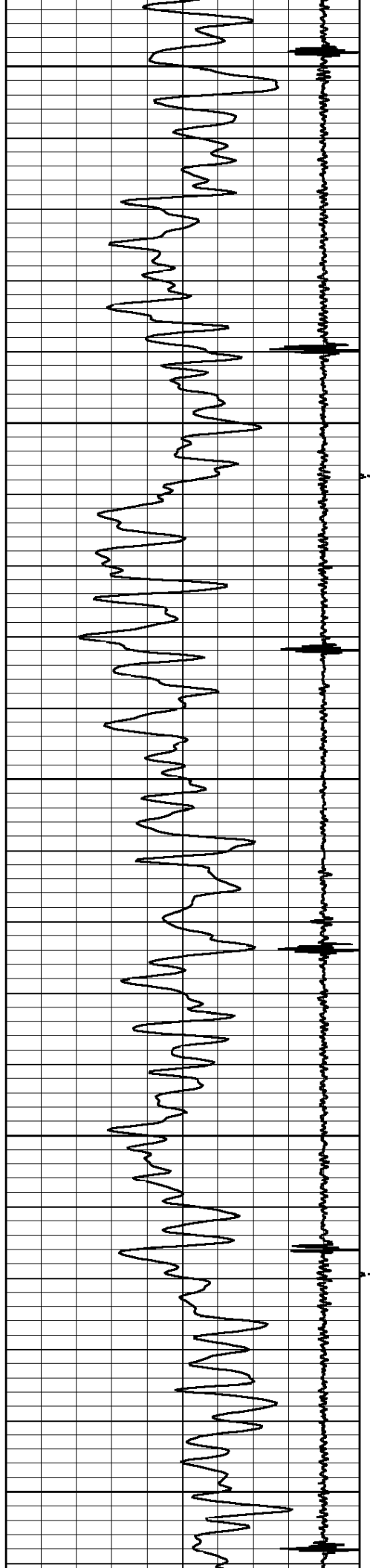
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2300

2350

2400





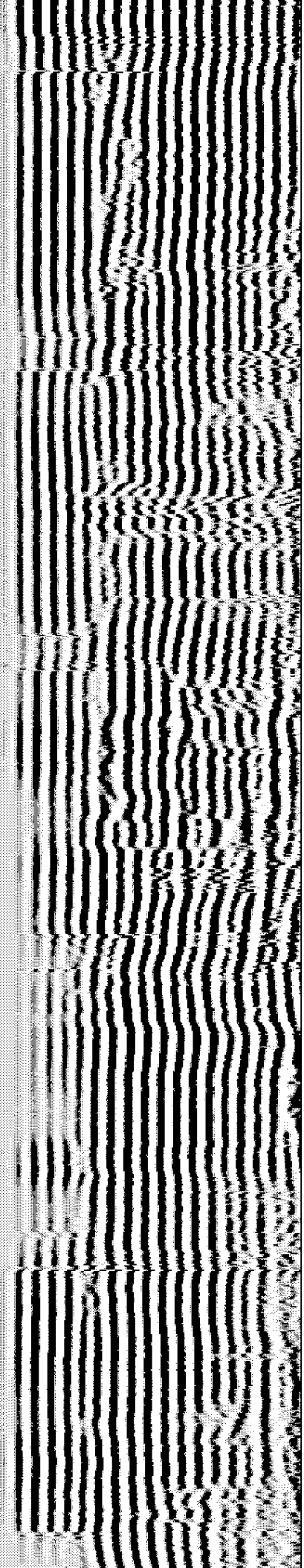
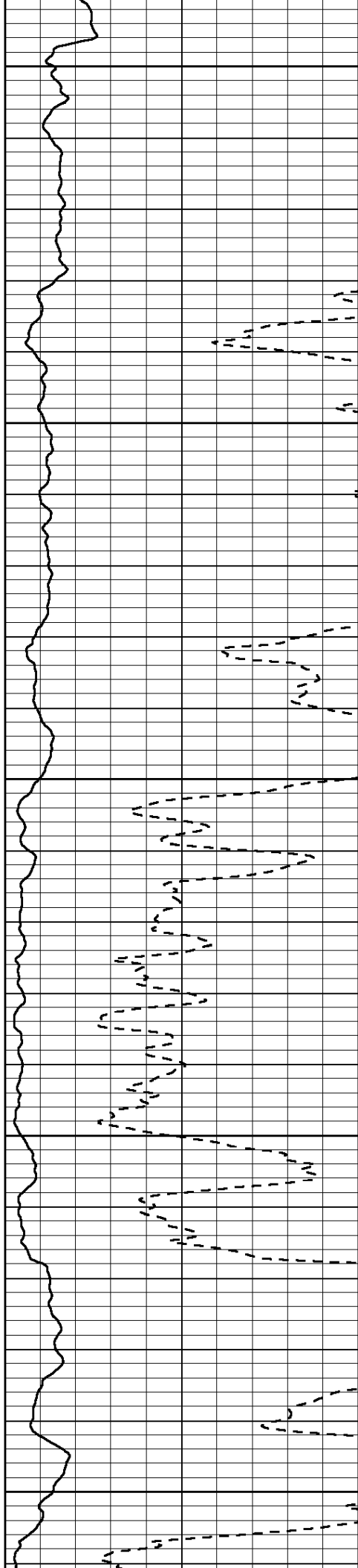
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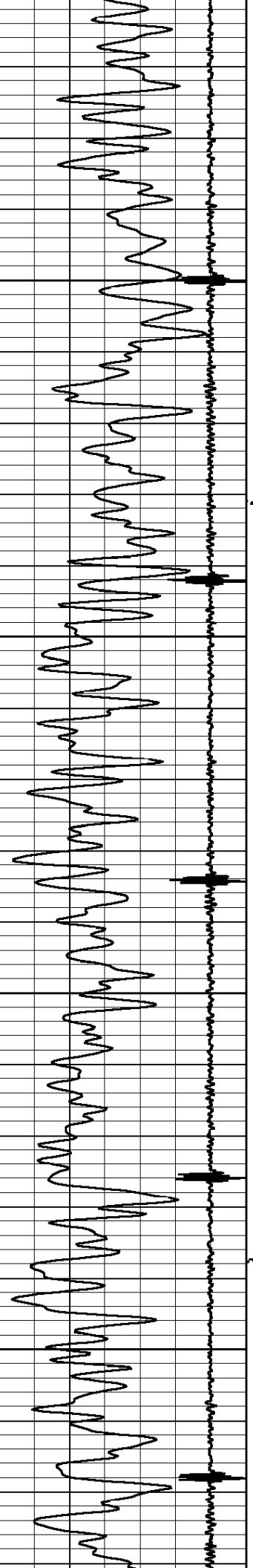
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2550

2600

2650



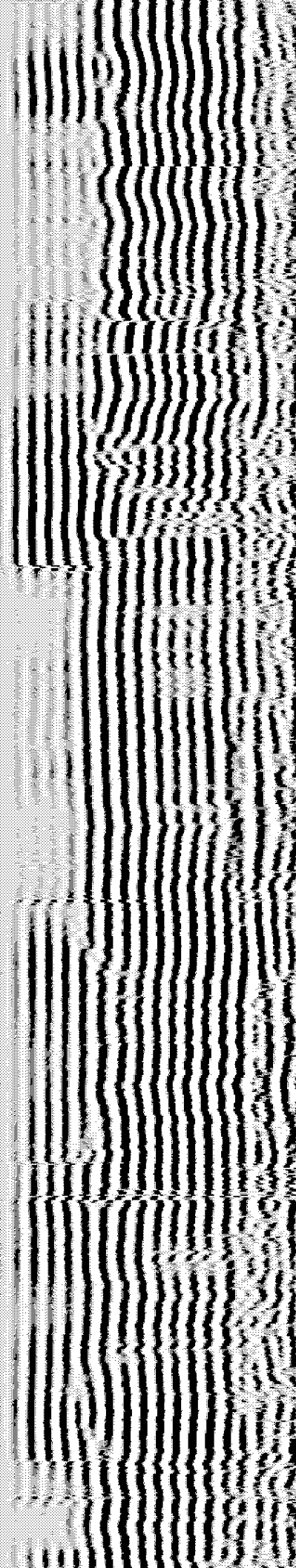
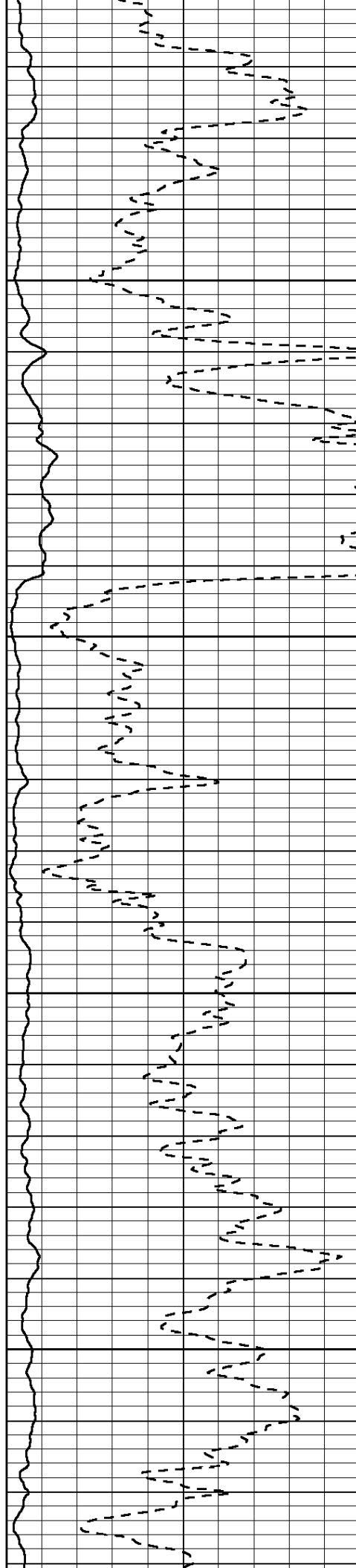


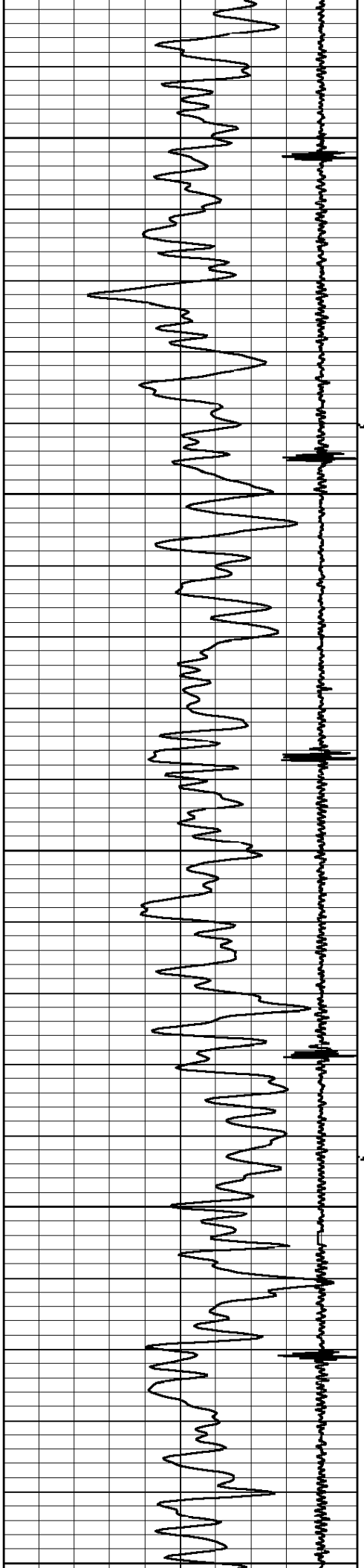
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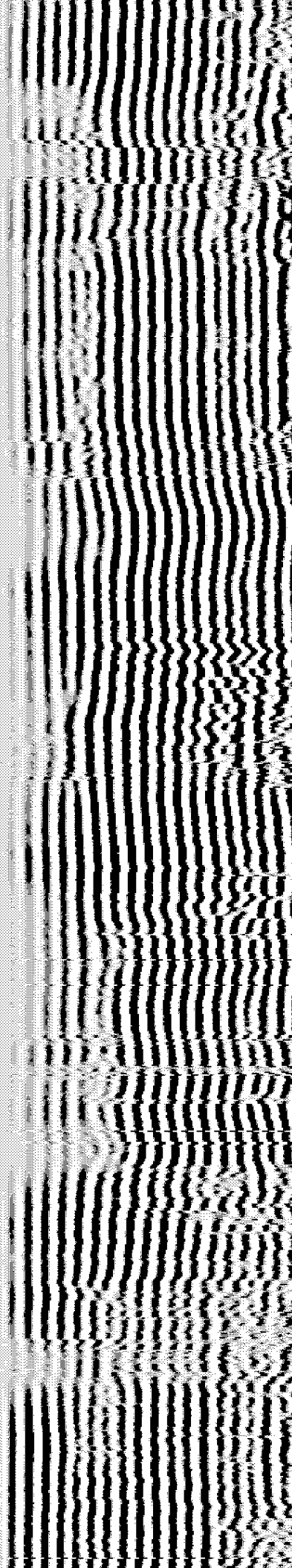
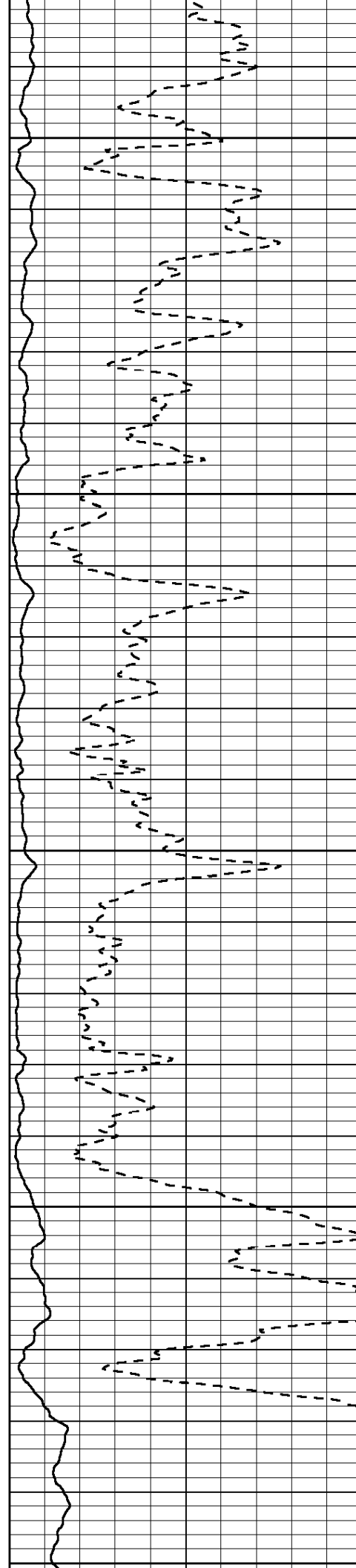
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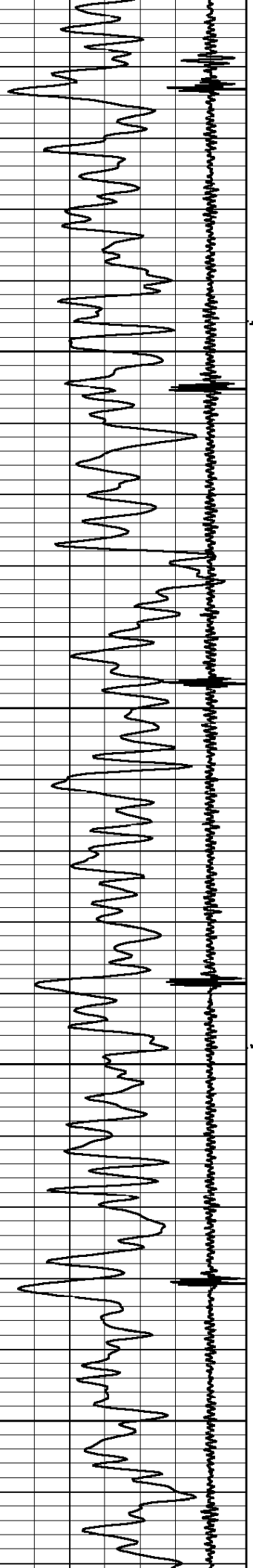
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3050

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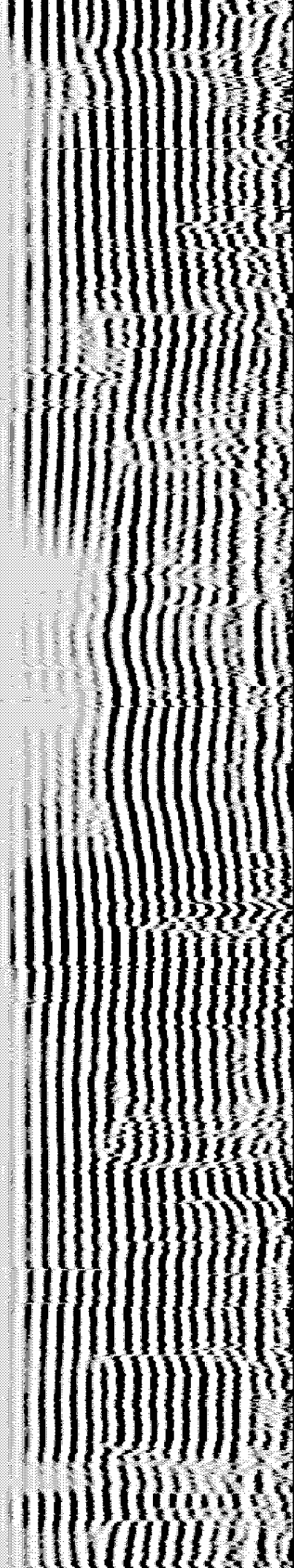
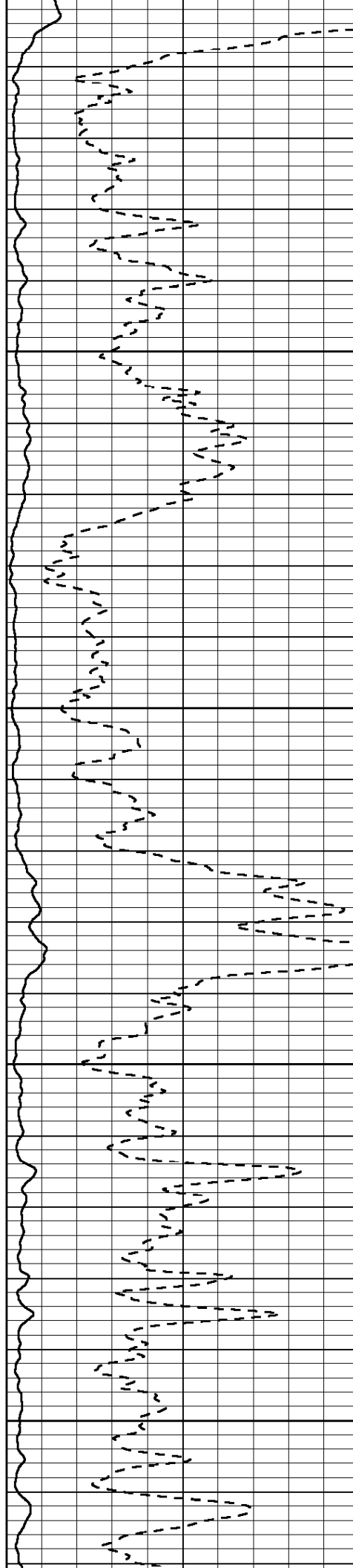


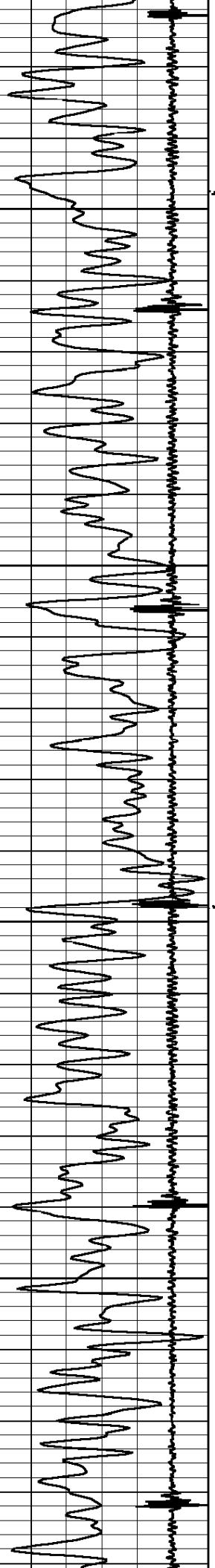
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3200

3250

3300



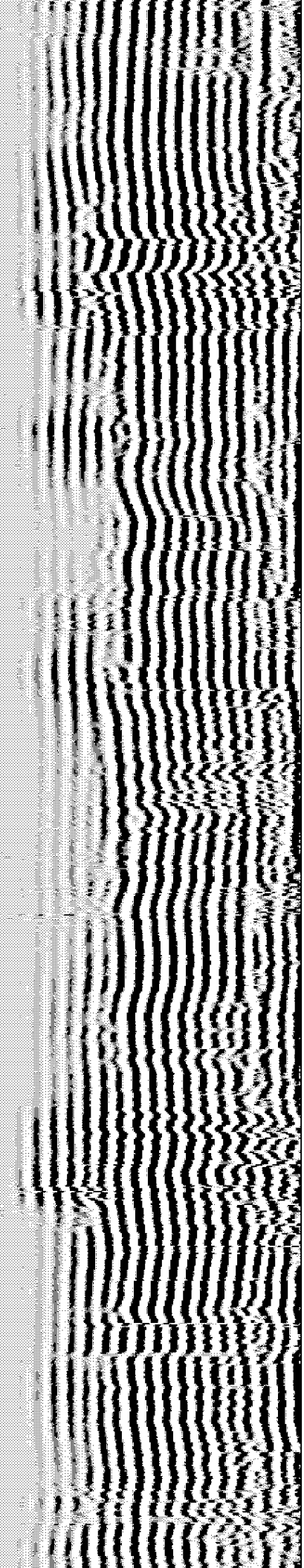
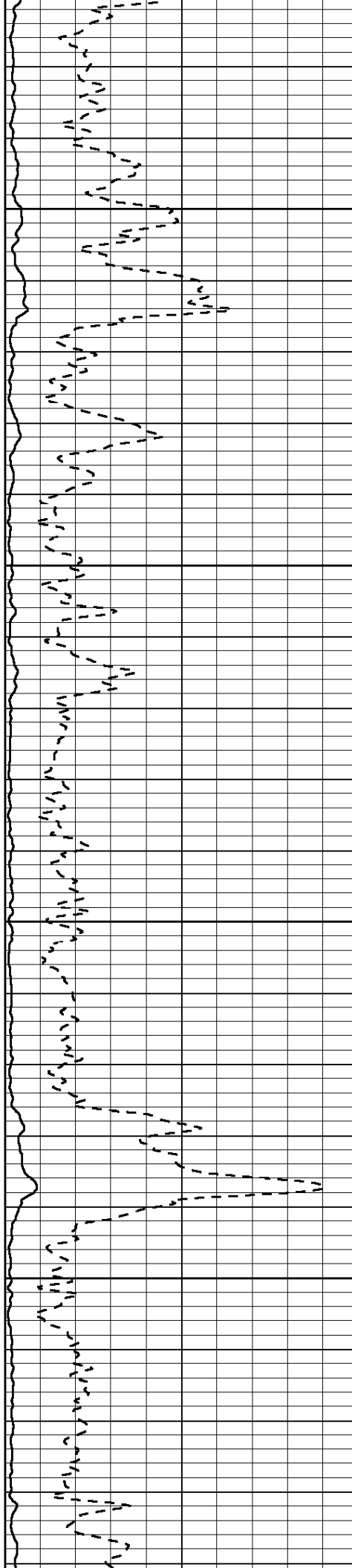


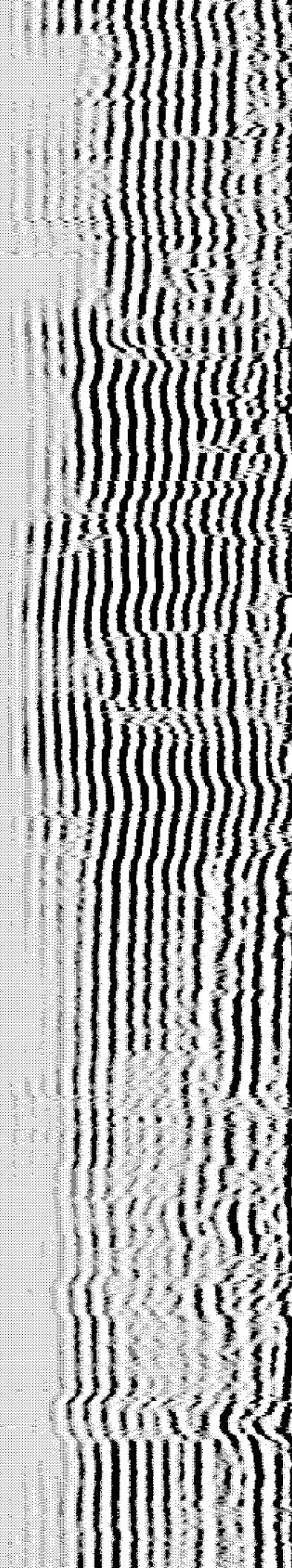
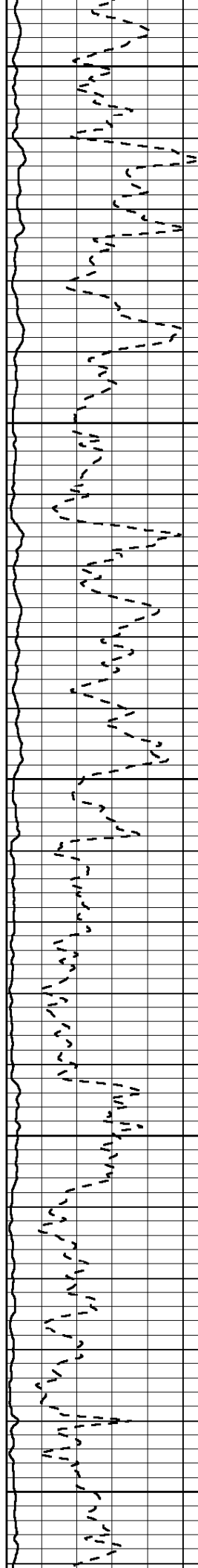
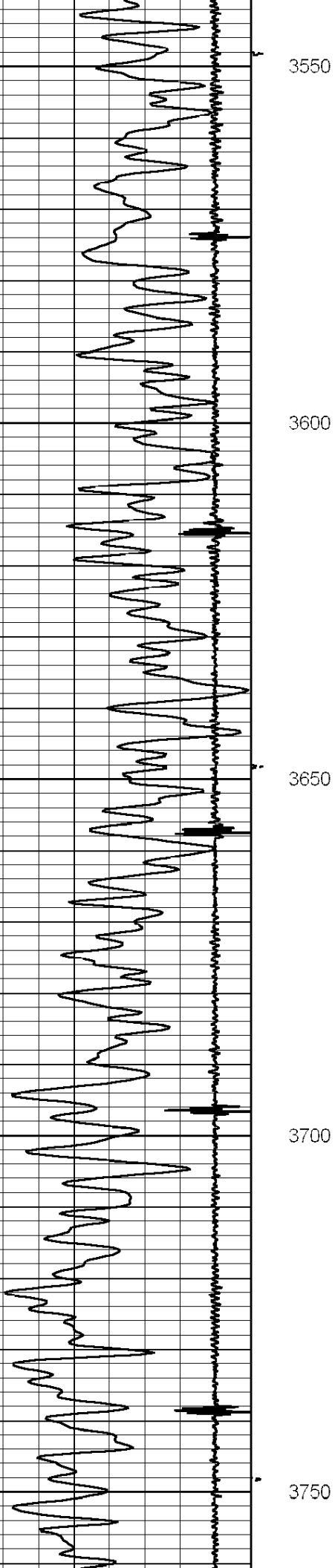
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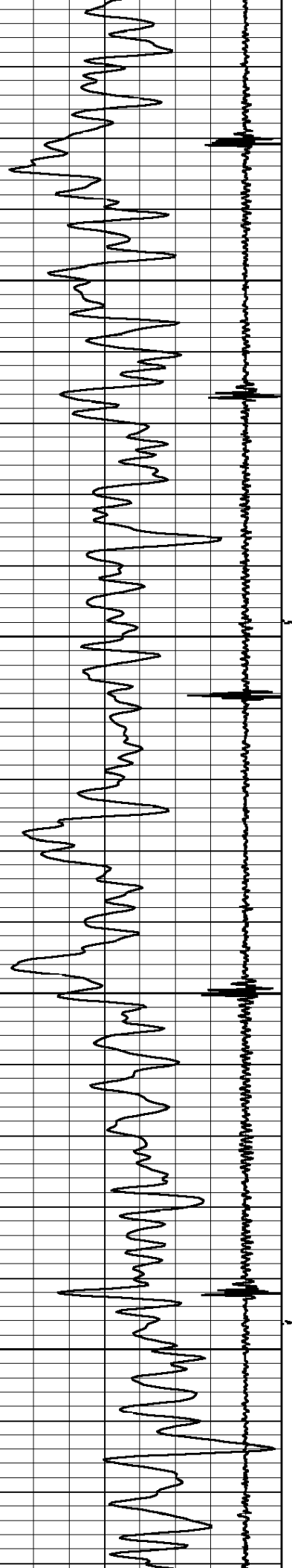
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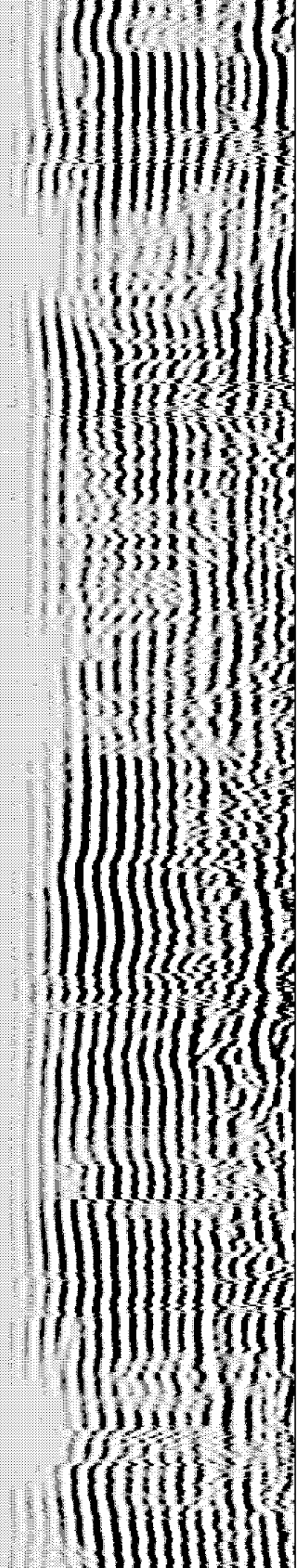
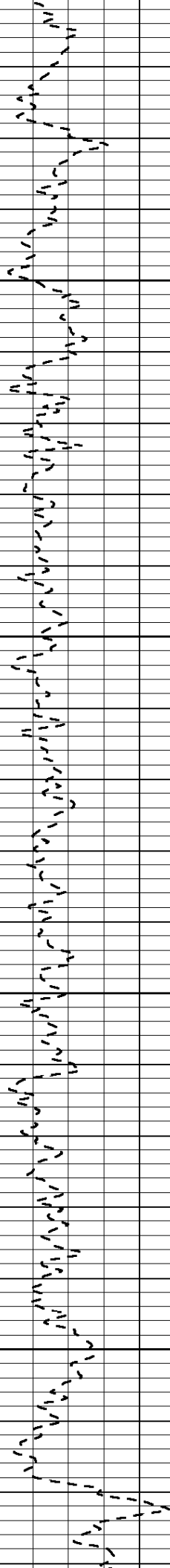


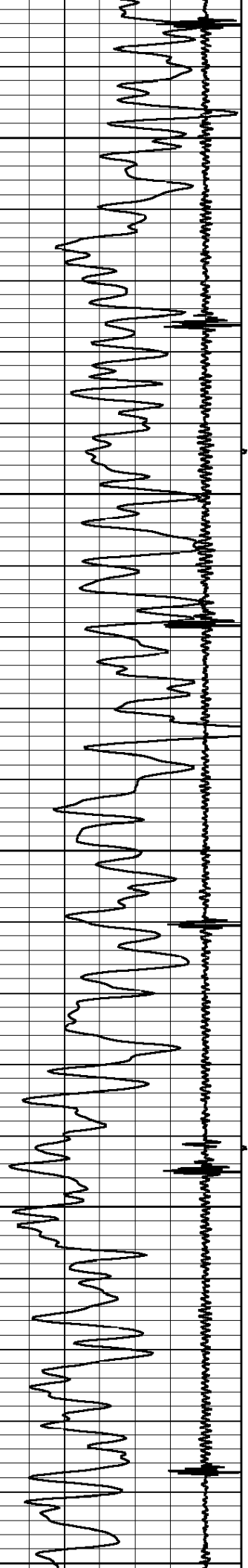
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3950





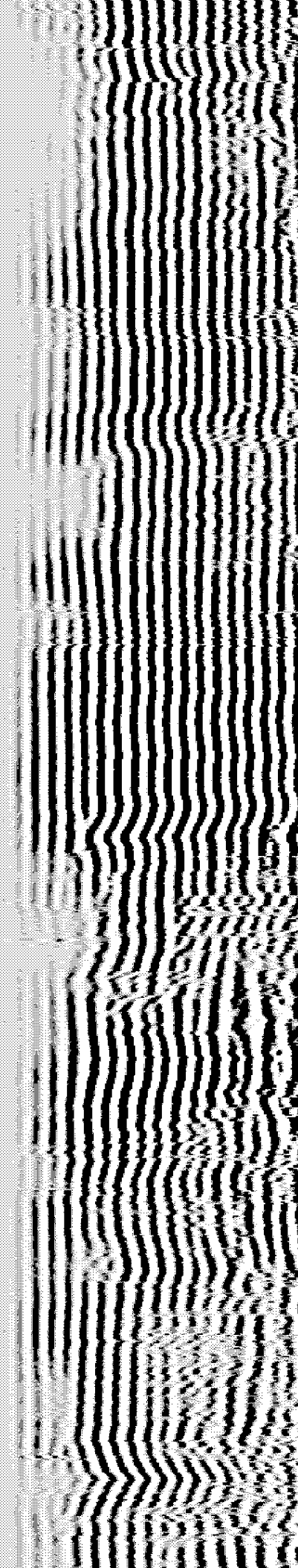
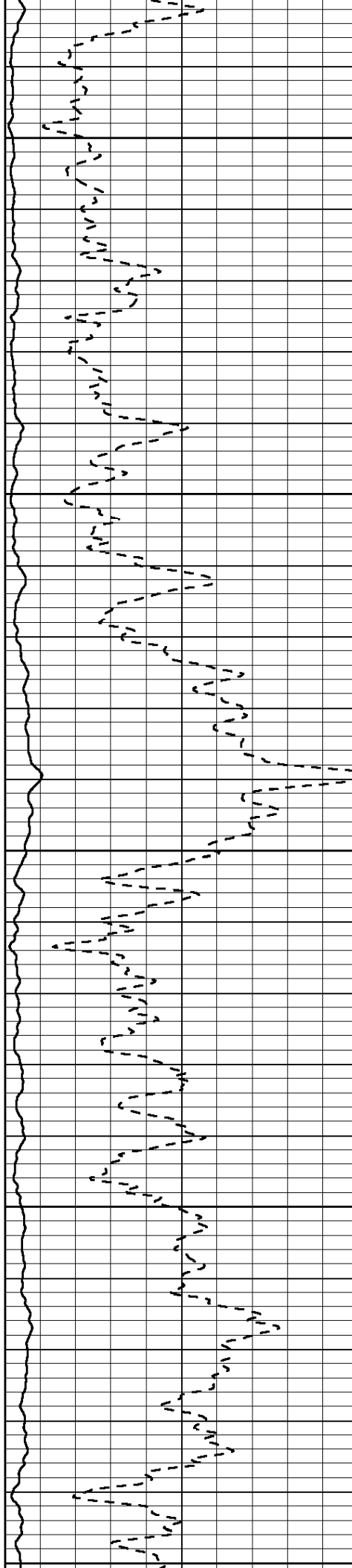
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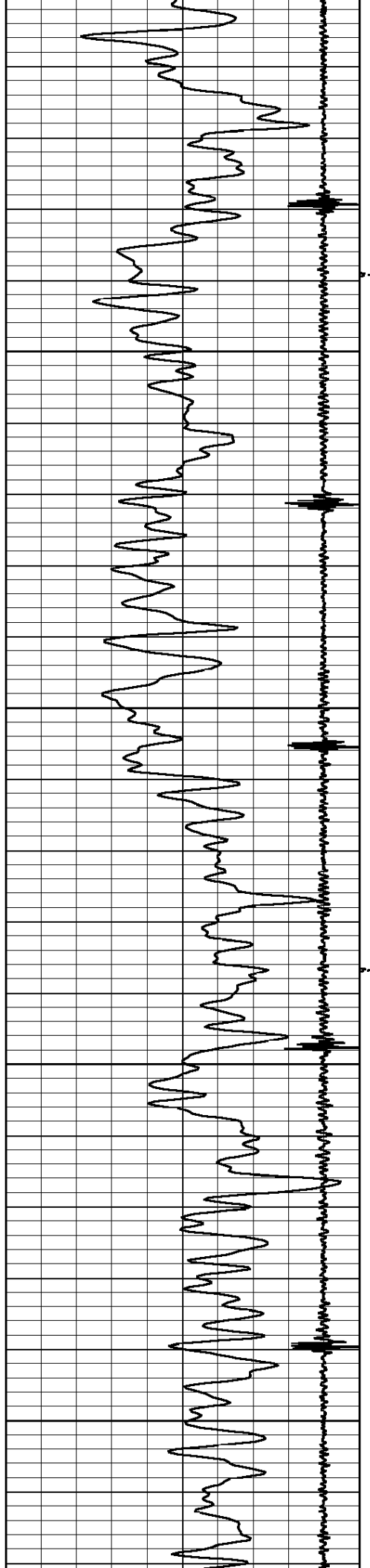
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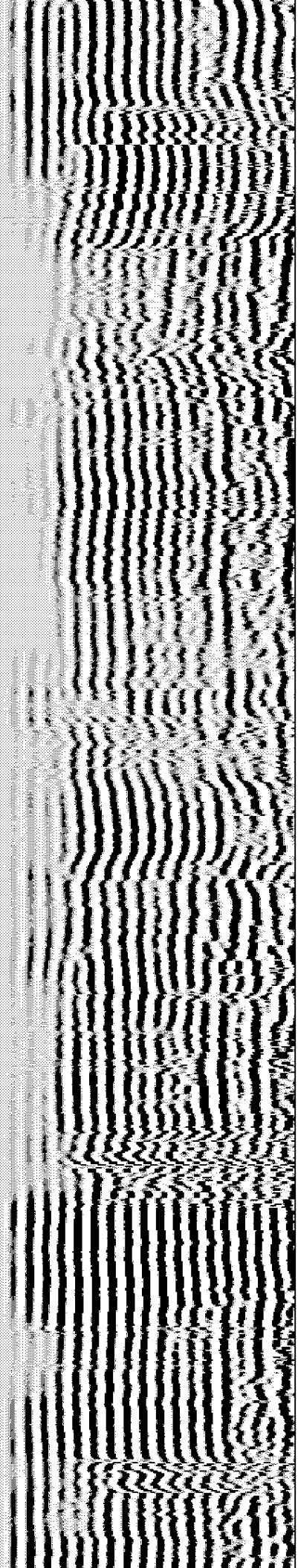
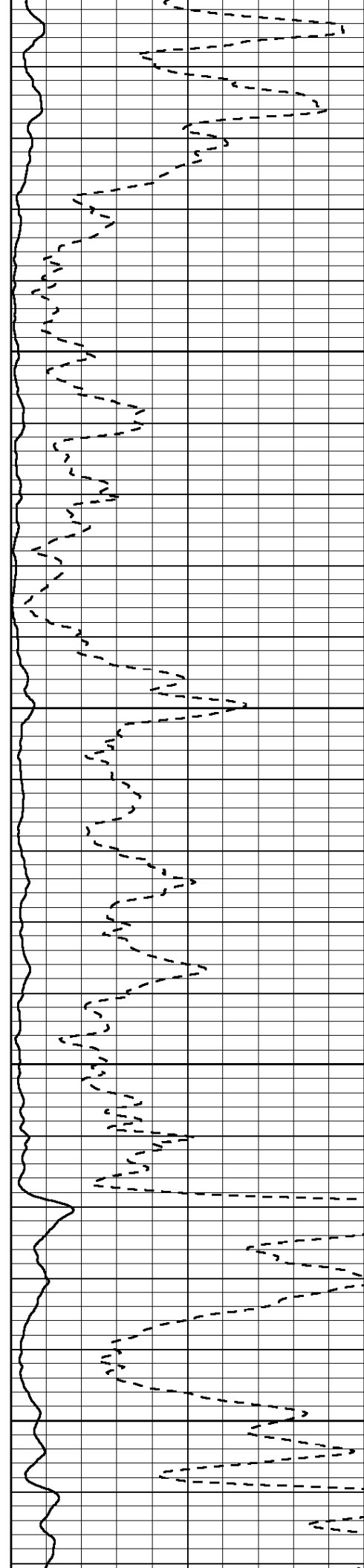
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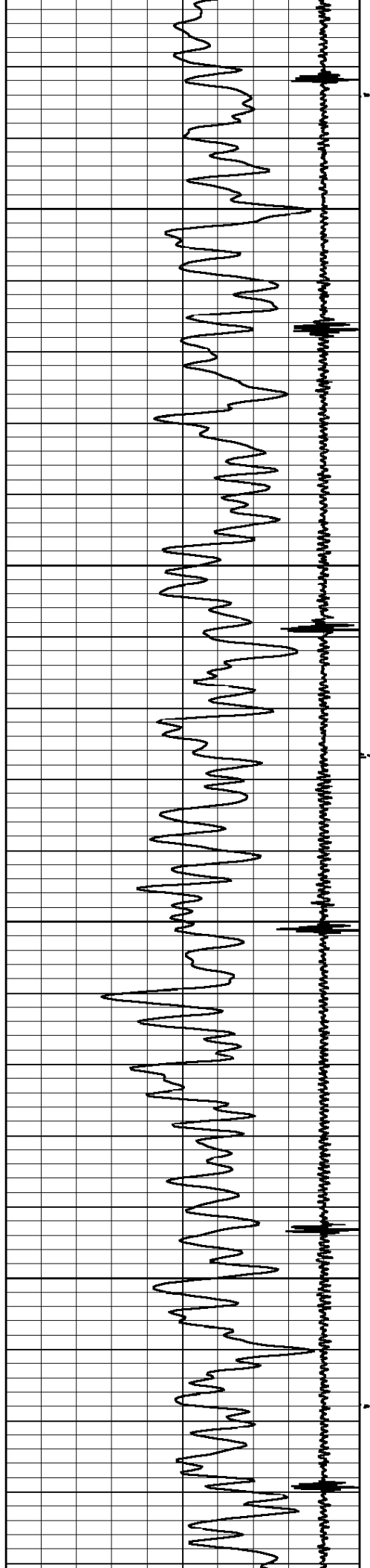
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4200
4250
4300
4350
4400



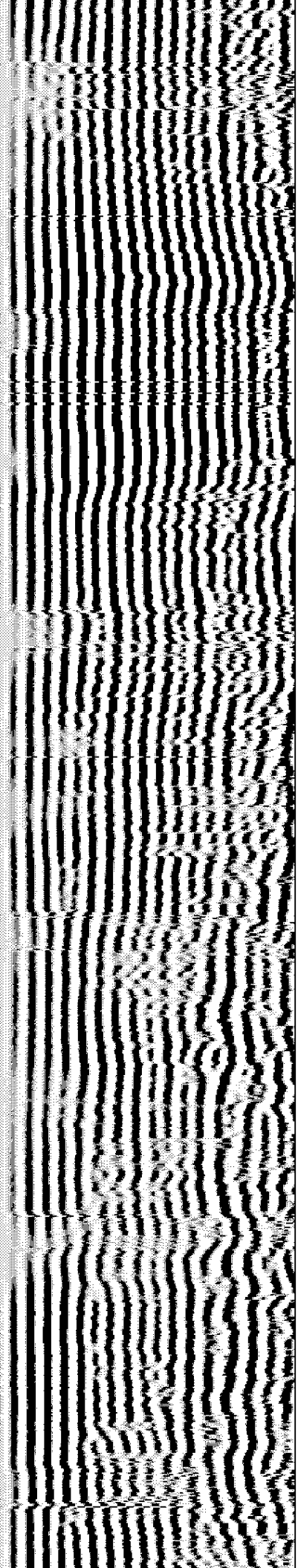
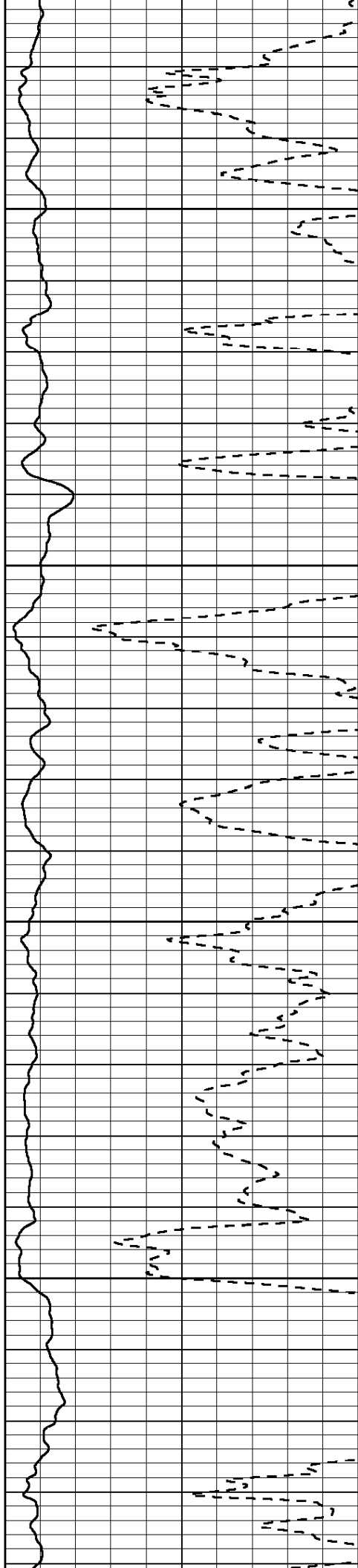


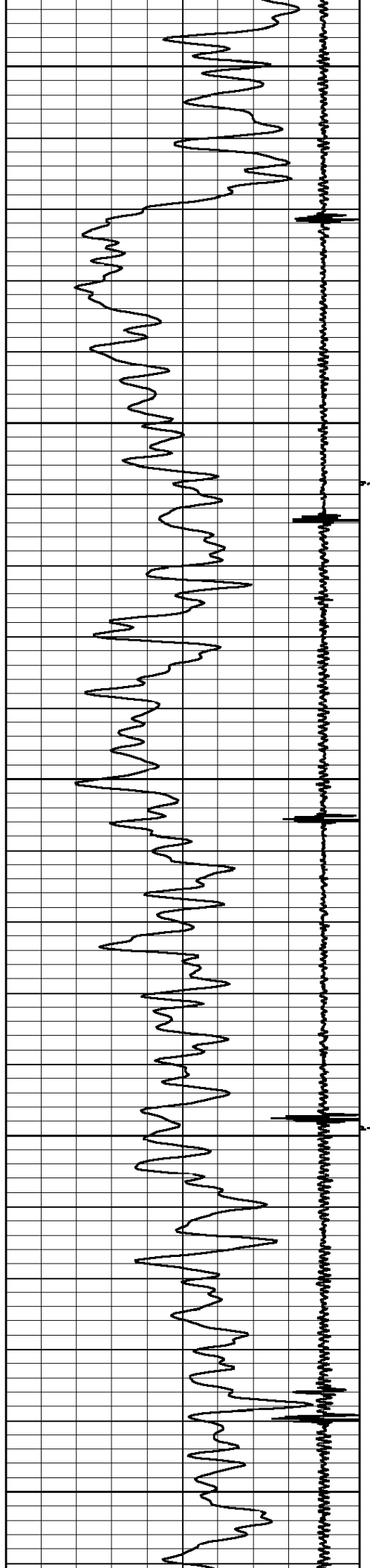
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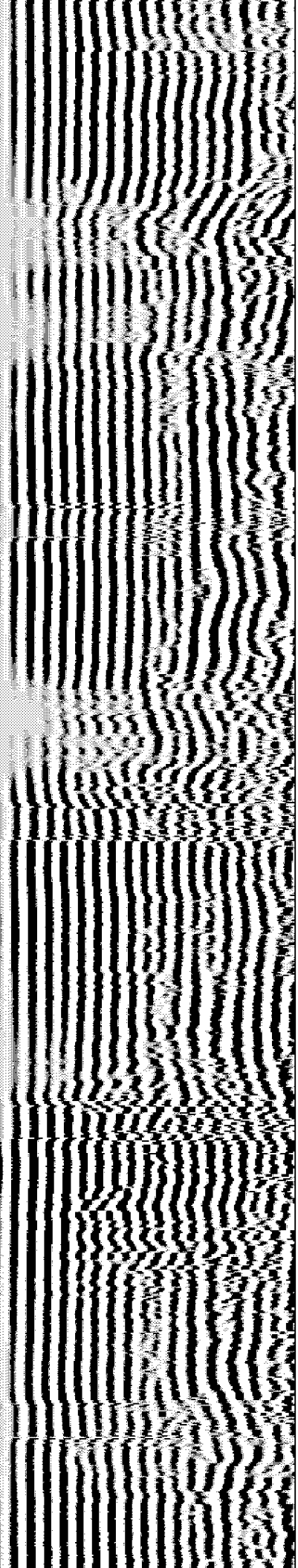
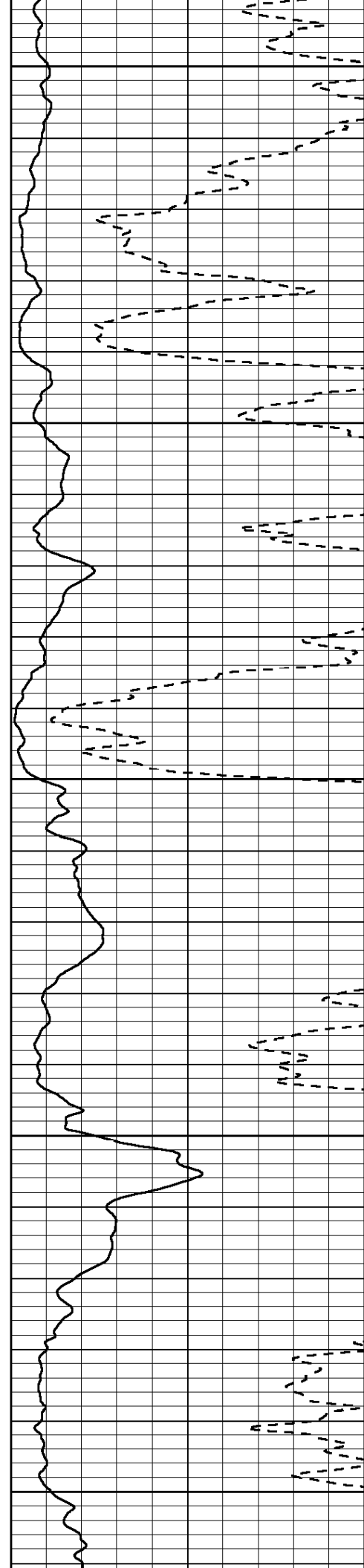
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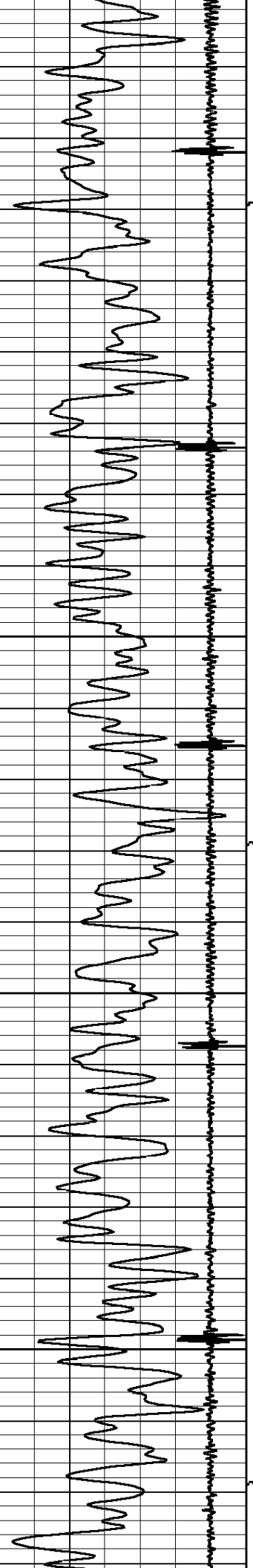
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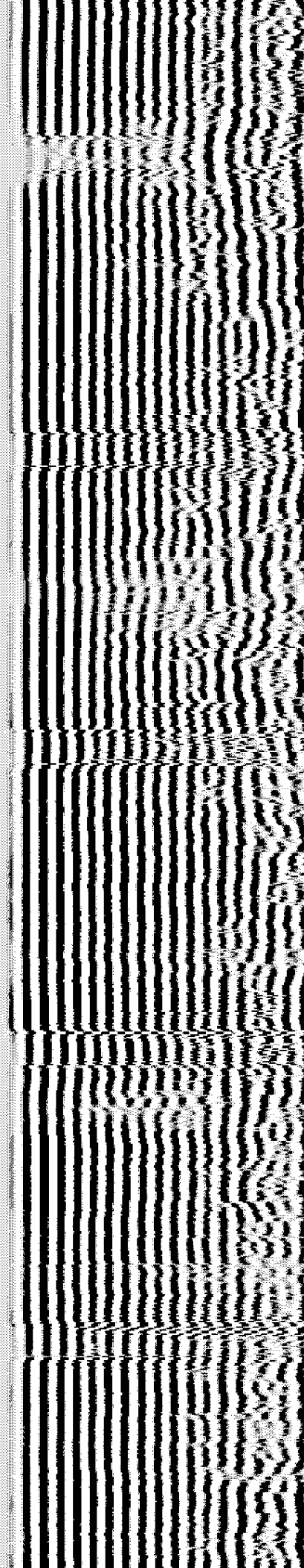
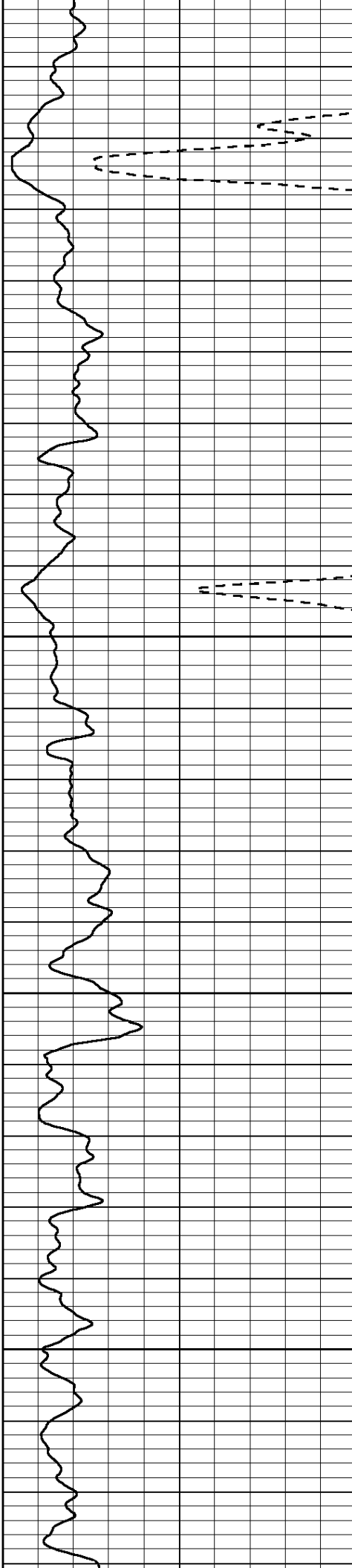


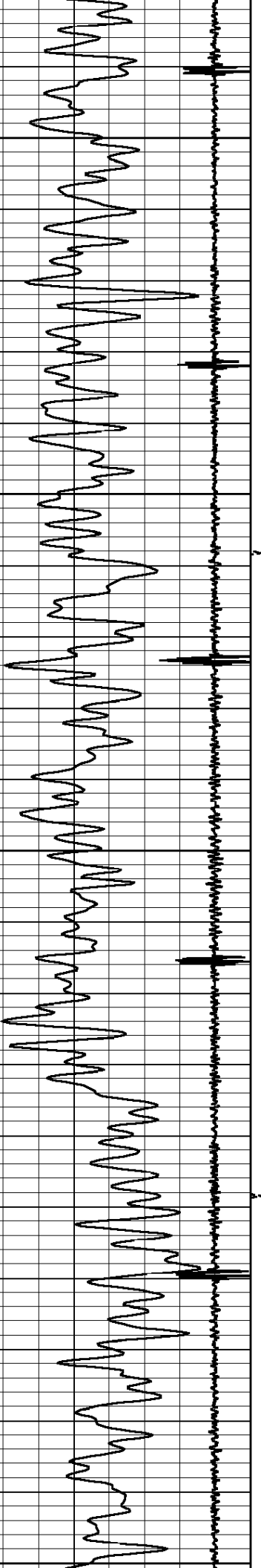
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4950

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5050





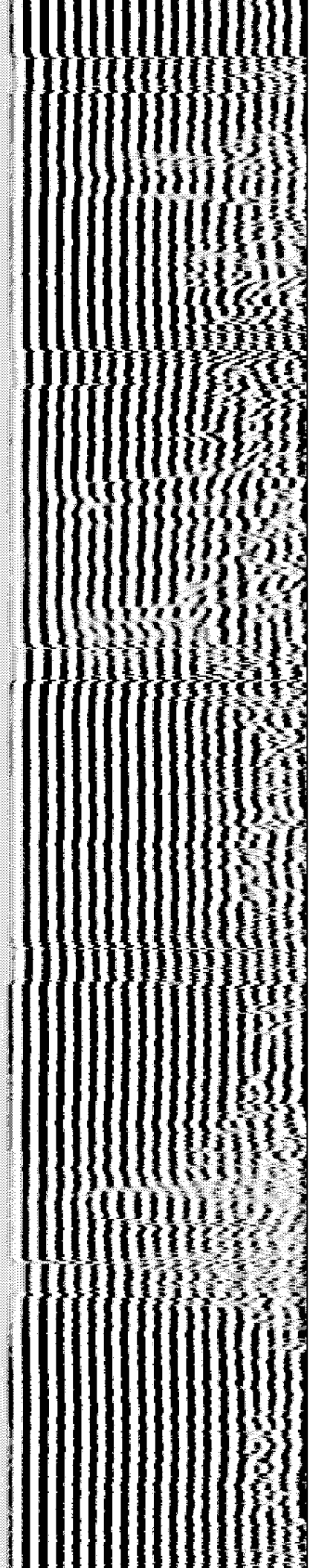
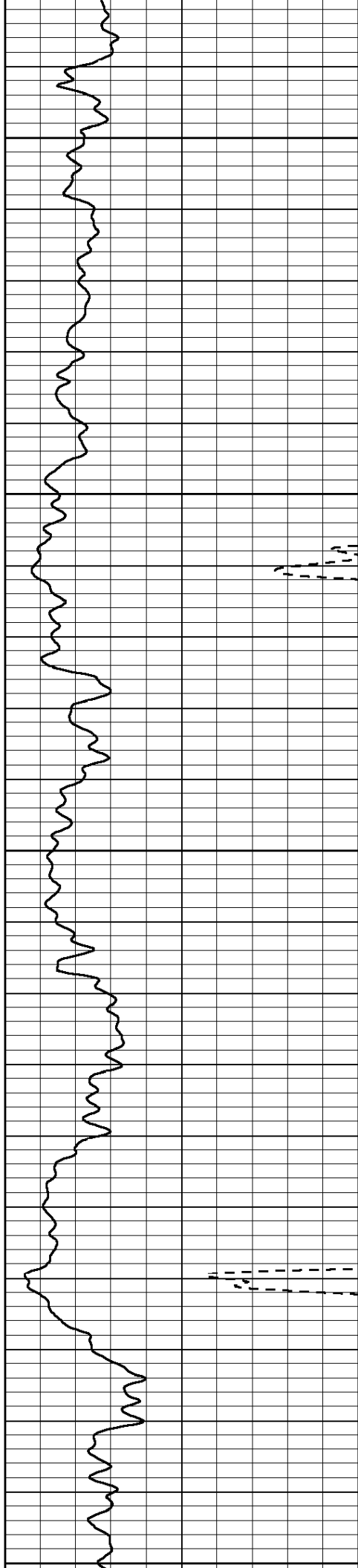
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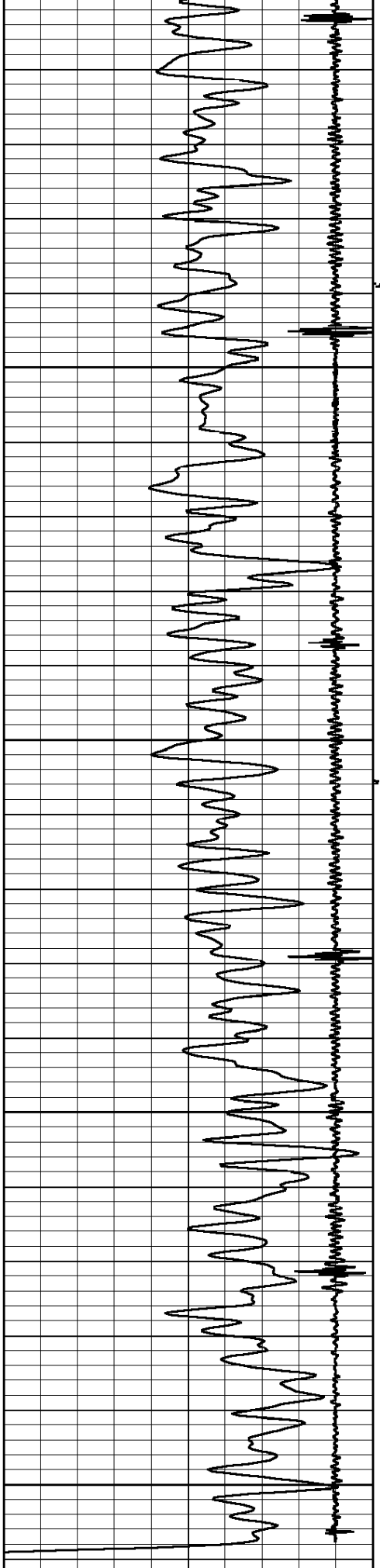
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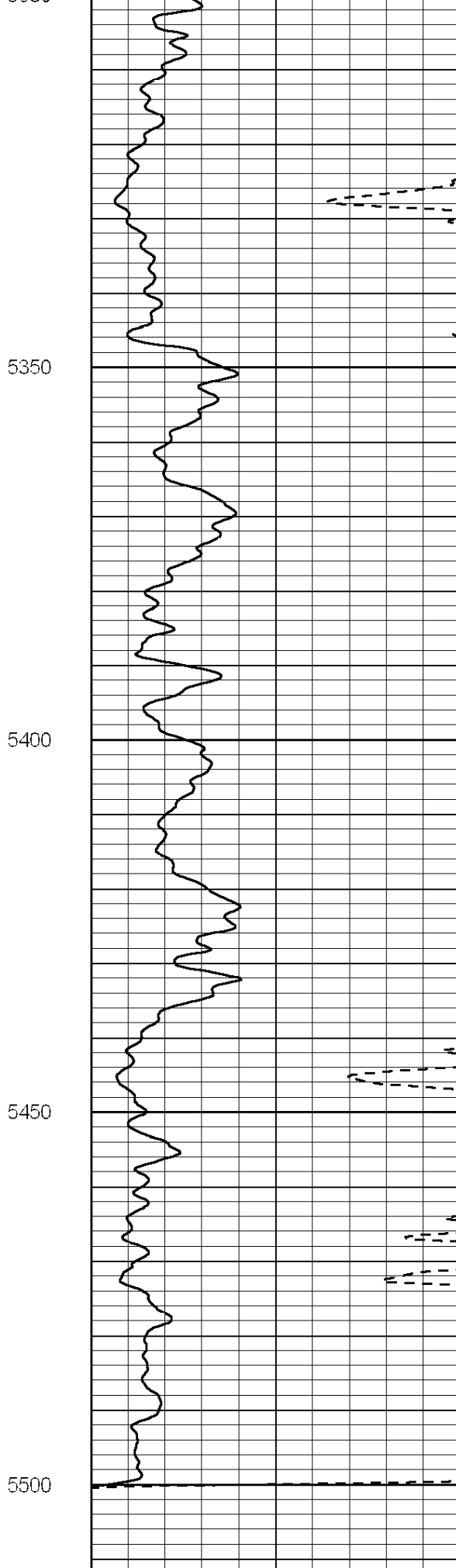
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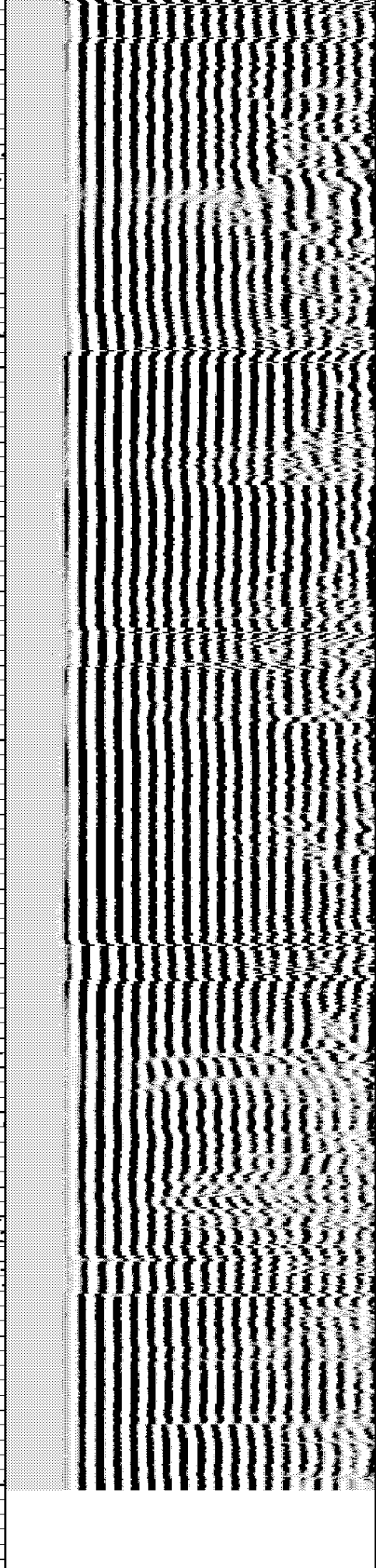




9 Collar Locator -1
30 GR (GAPI) 130



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



200 Variable Density 1200

HALLIBURTON

Sussex Pass

5"=100'

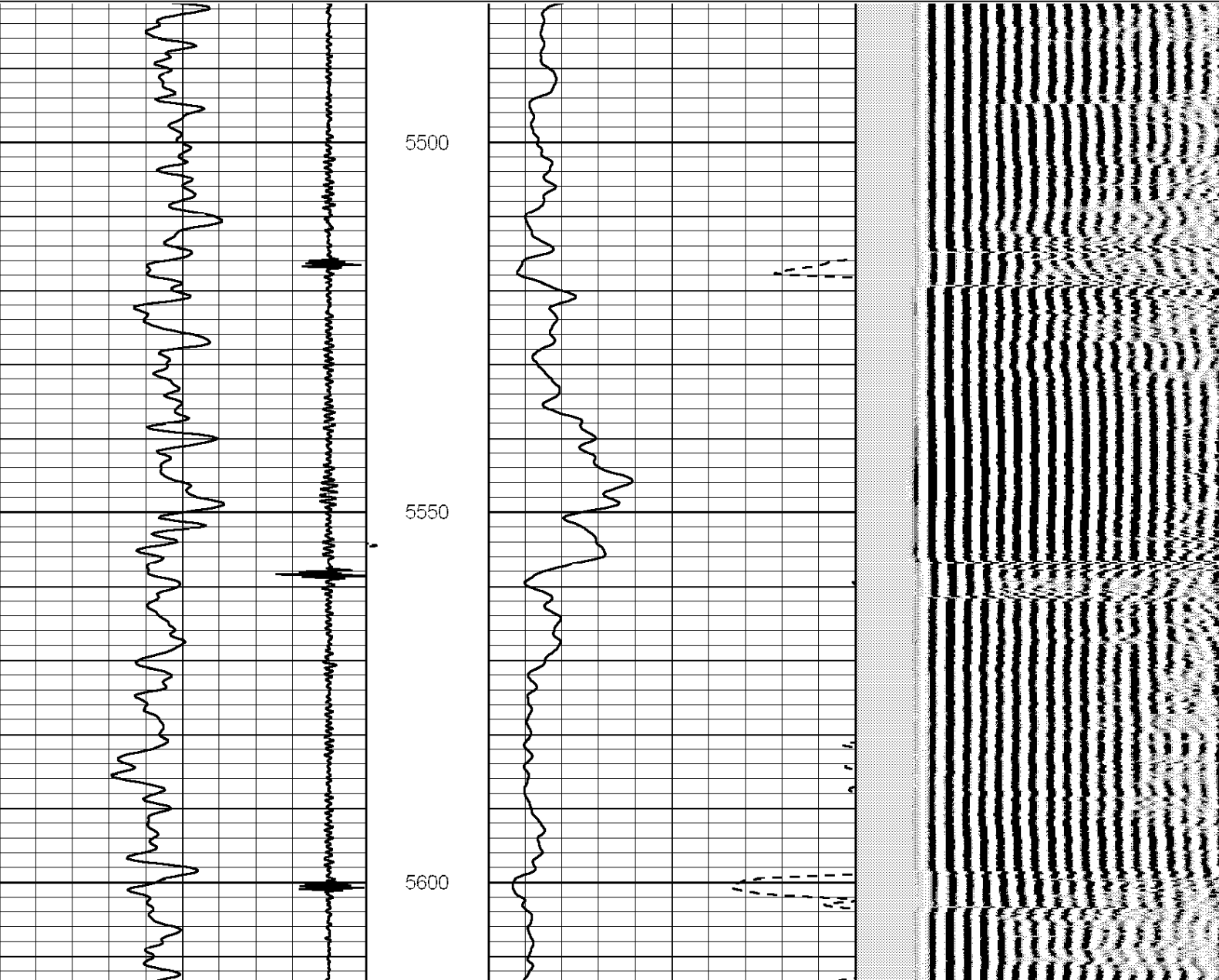
HALLIBURTON

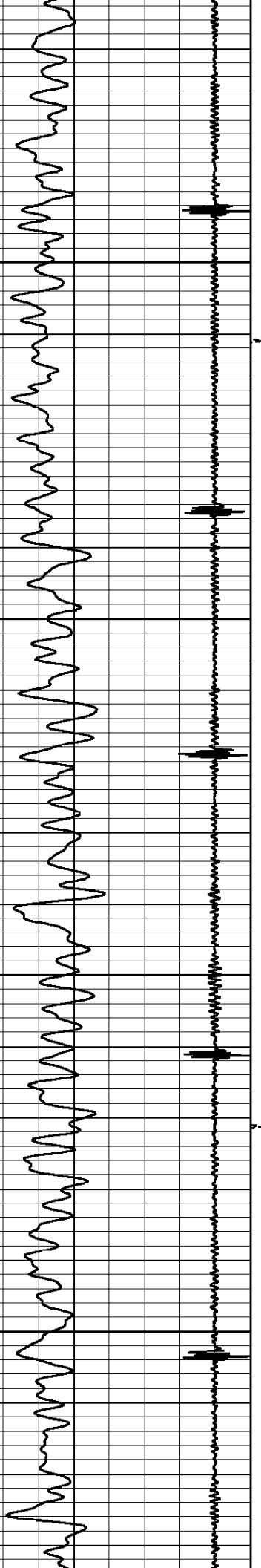
Main Pass

5"=100'

Database File: kerr-mcgee frank 35-31 cbl.db
Dataset Pathname: pass3
Presentation Format: nick_cbl
Dataset Creation: Wed Feb 04 08:16:37 2009 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	Variable Density	1200
0	GR (GAPI)	200	0	Amplified Amplitude (mV)	10			



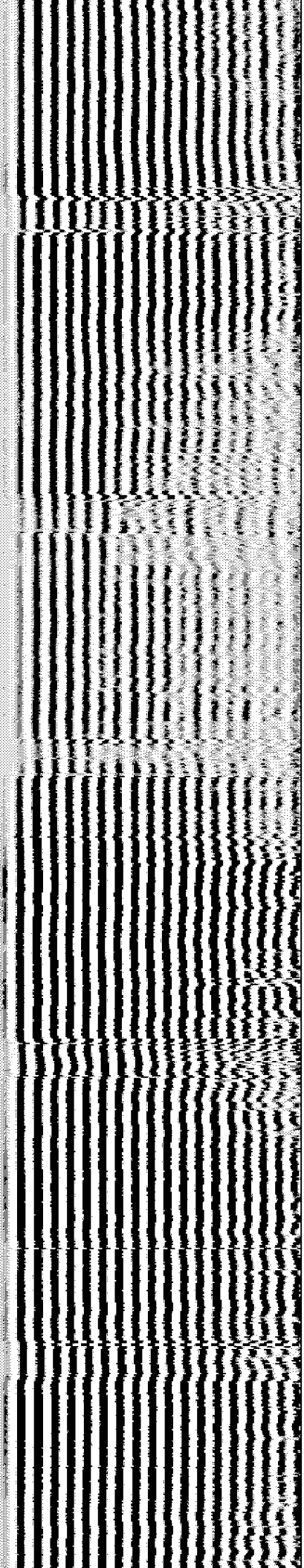
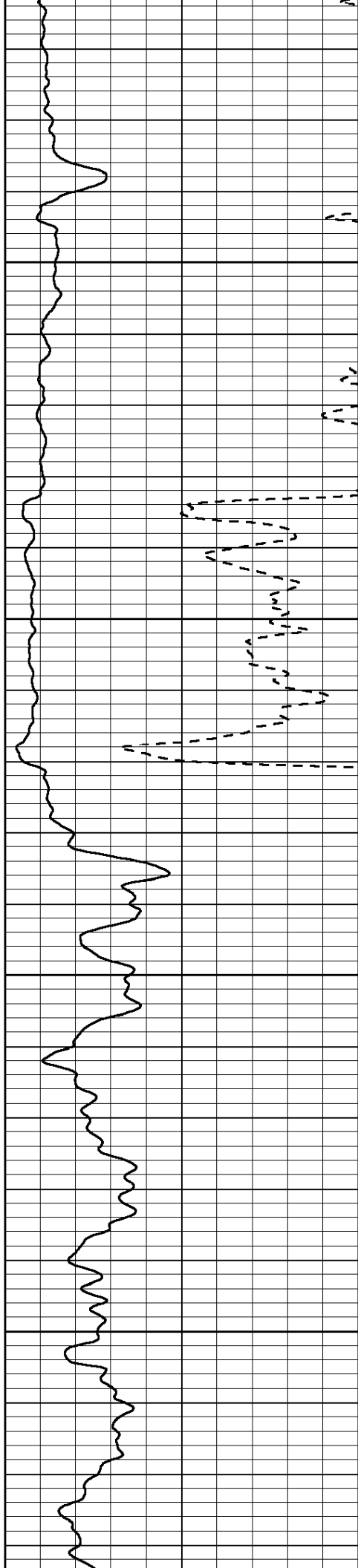


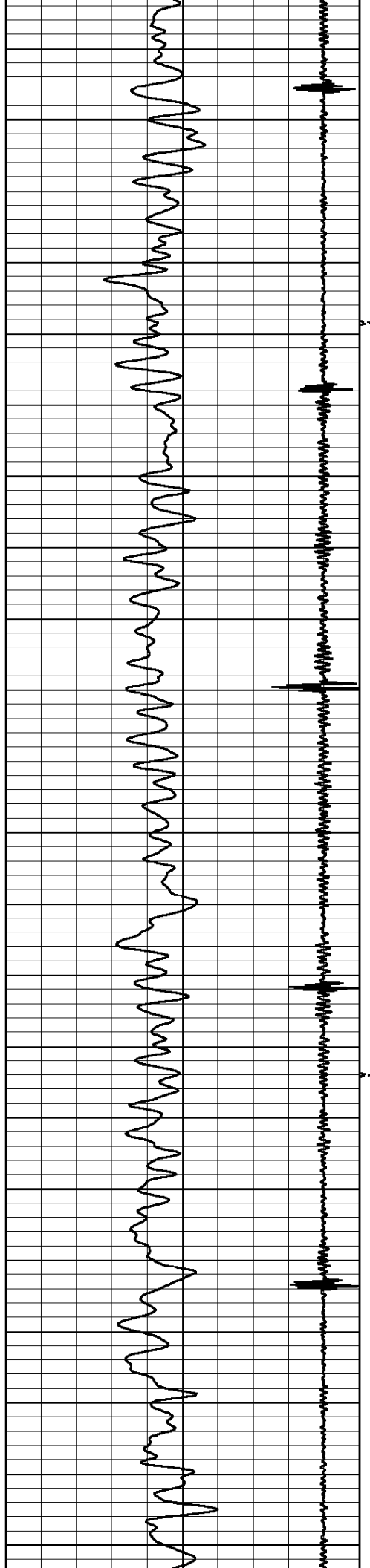
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5700

5750

5800





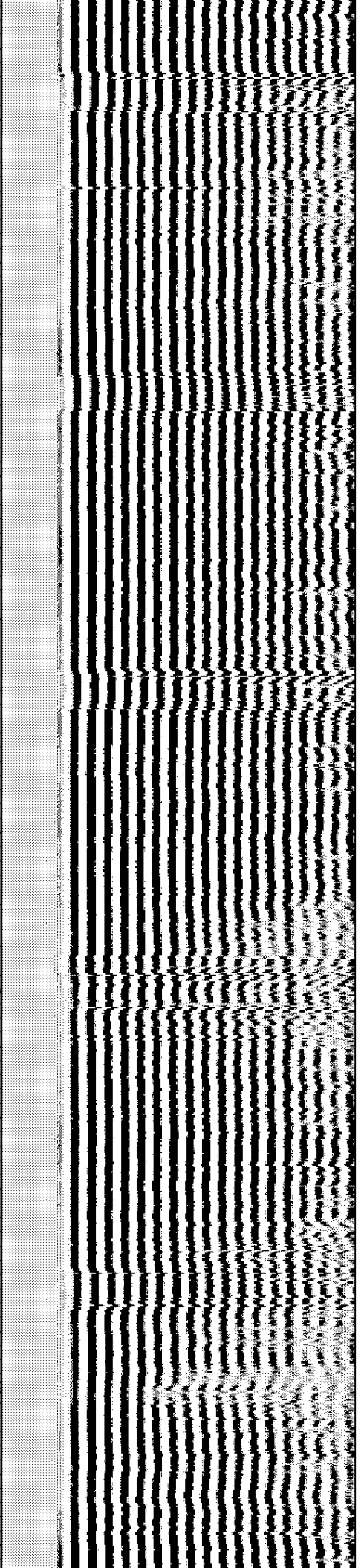
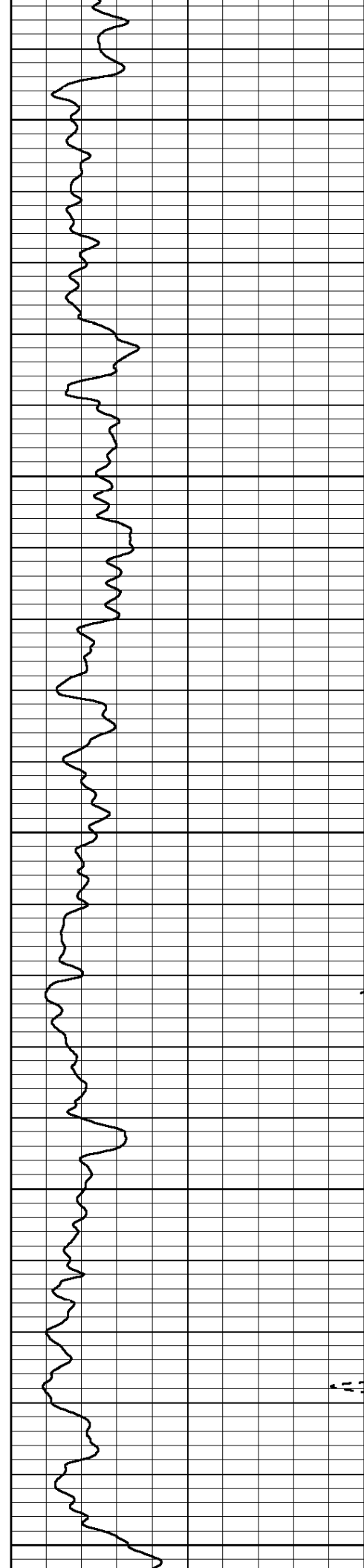
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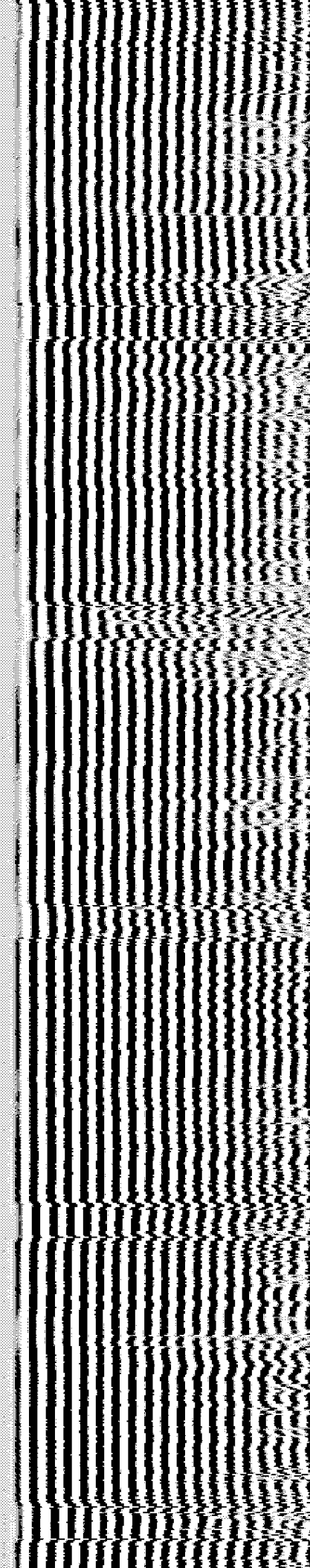
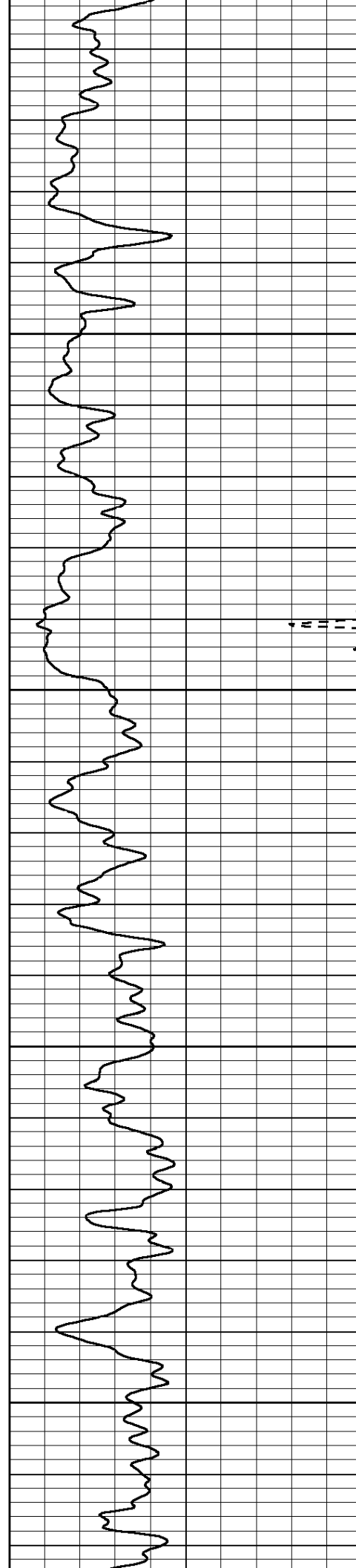
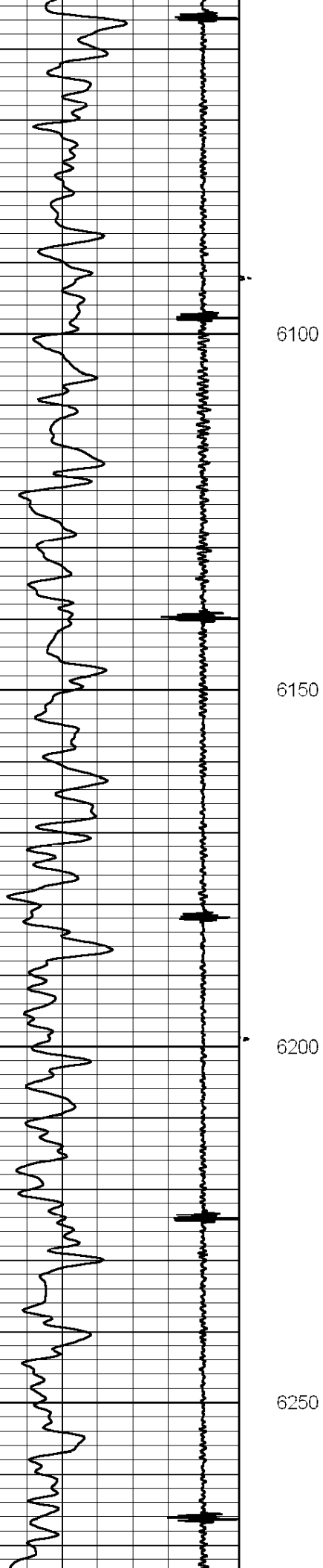
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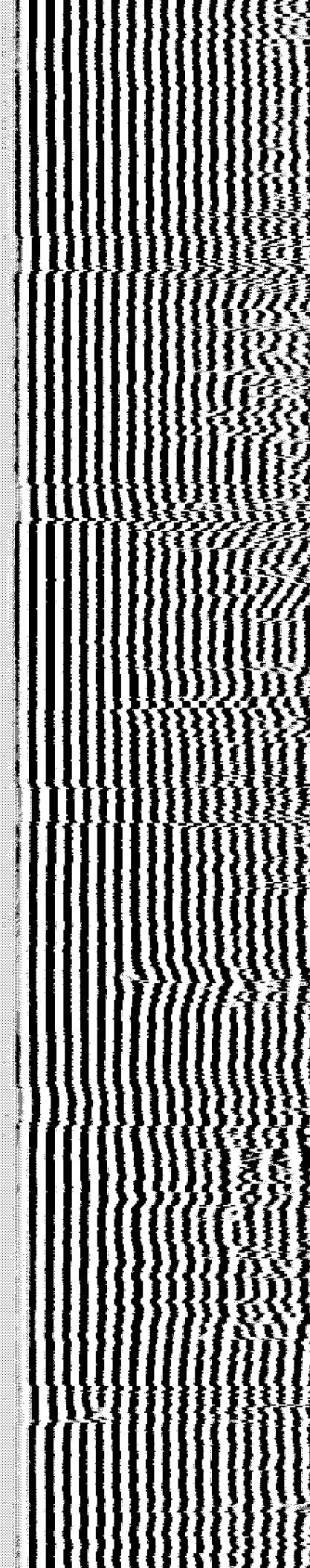
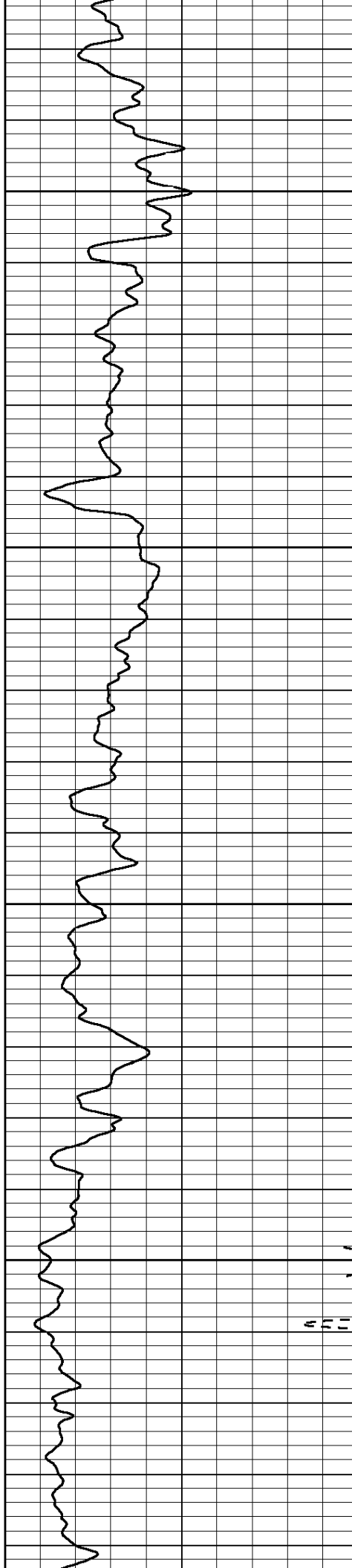
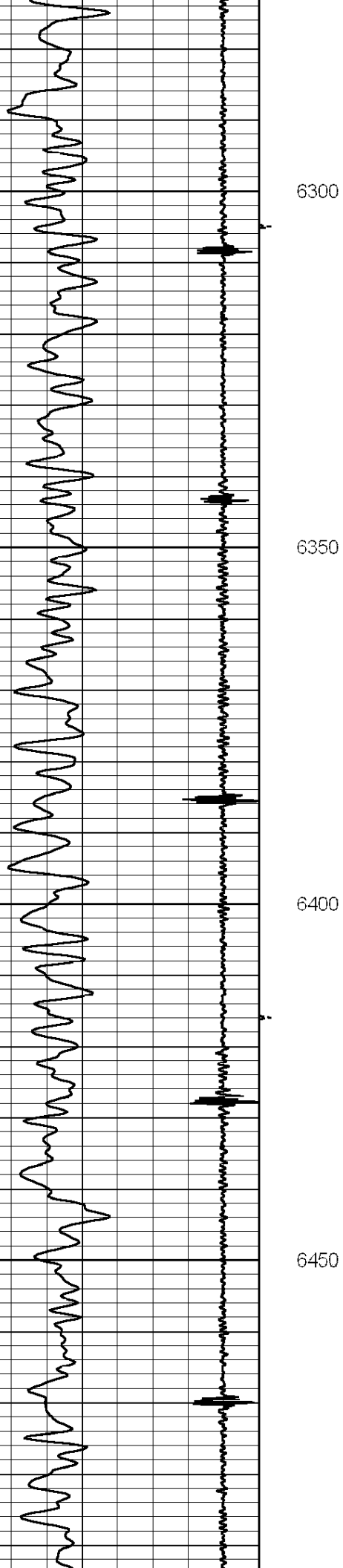
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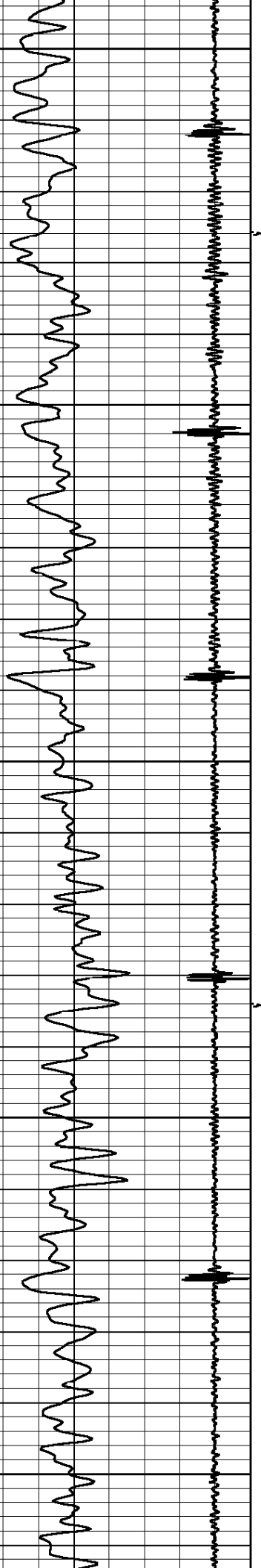
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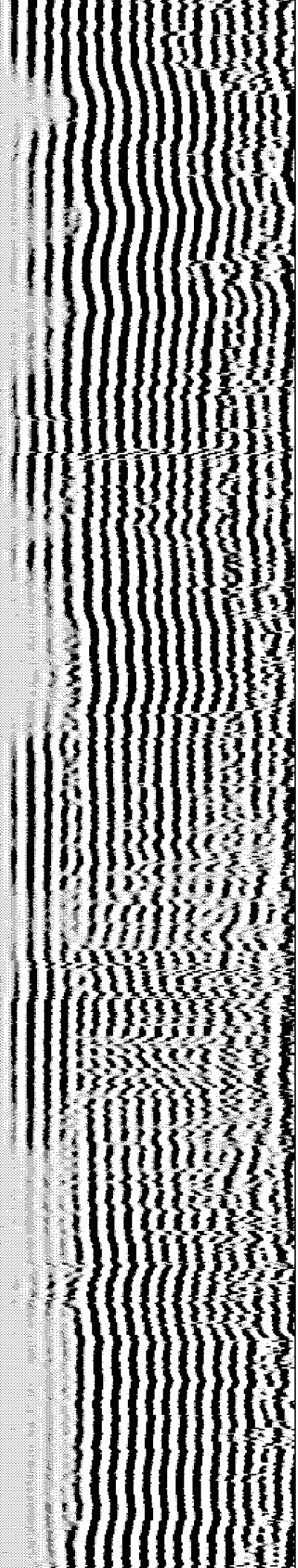
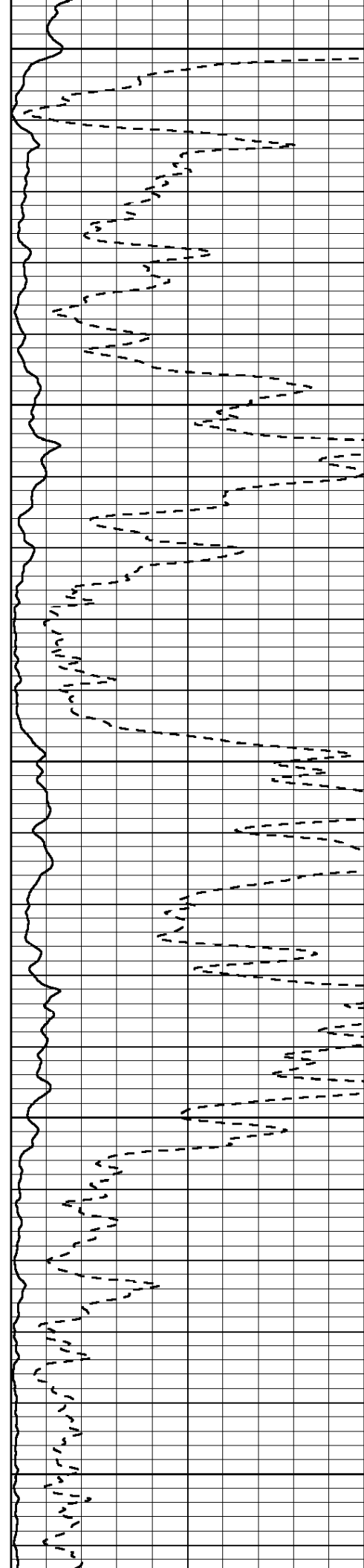
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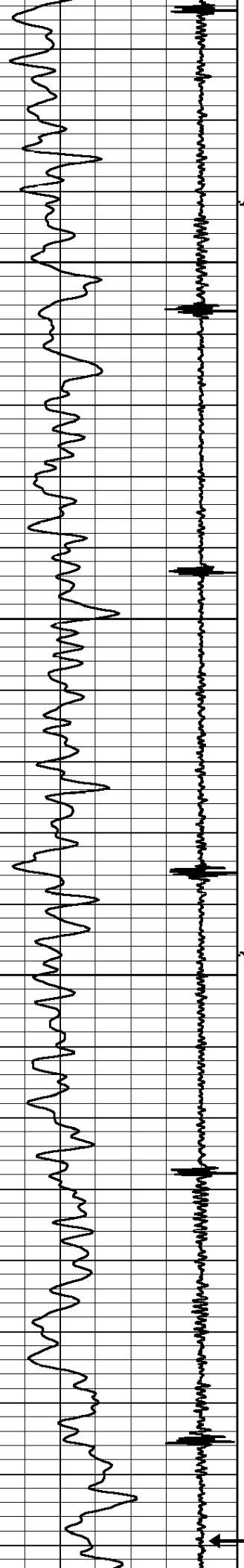
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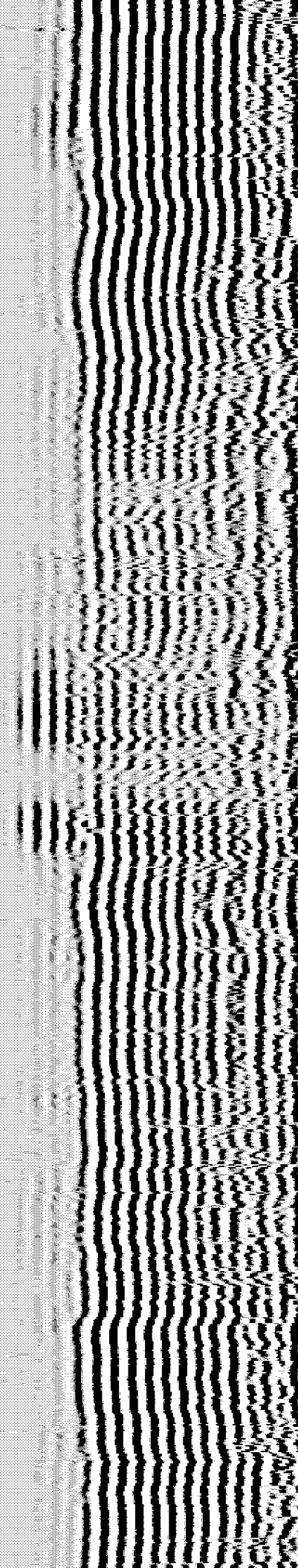
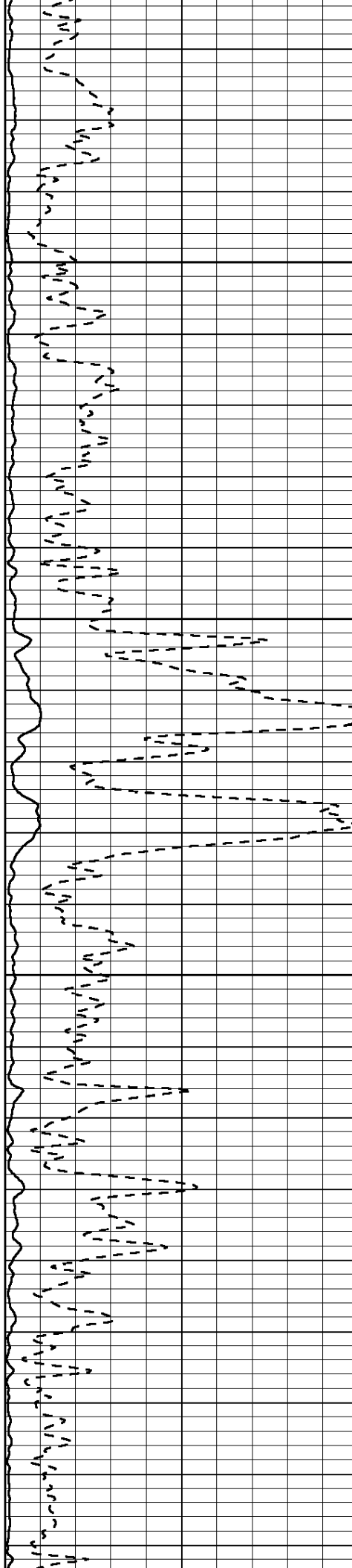
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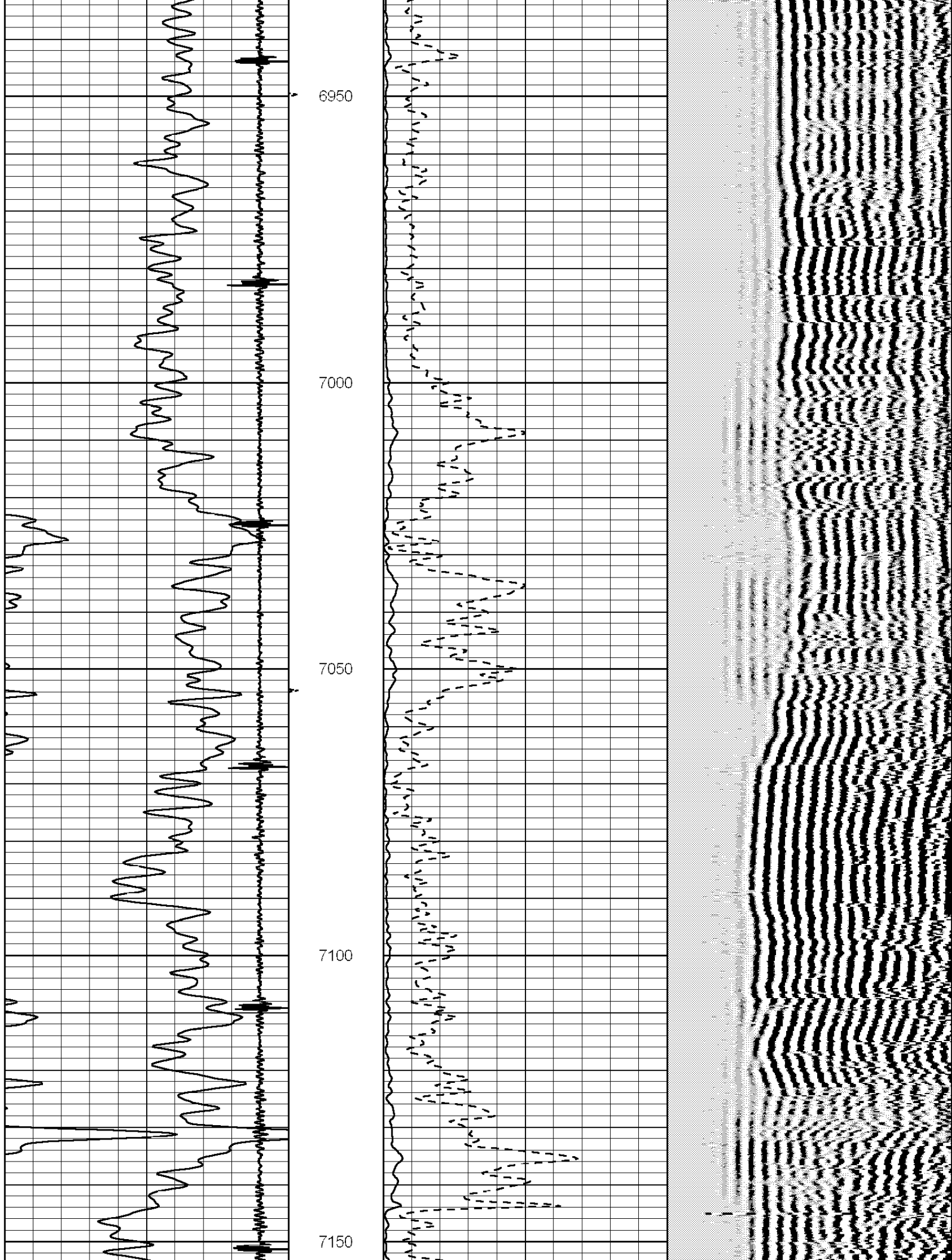
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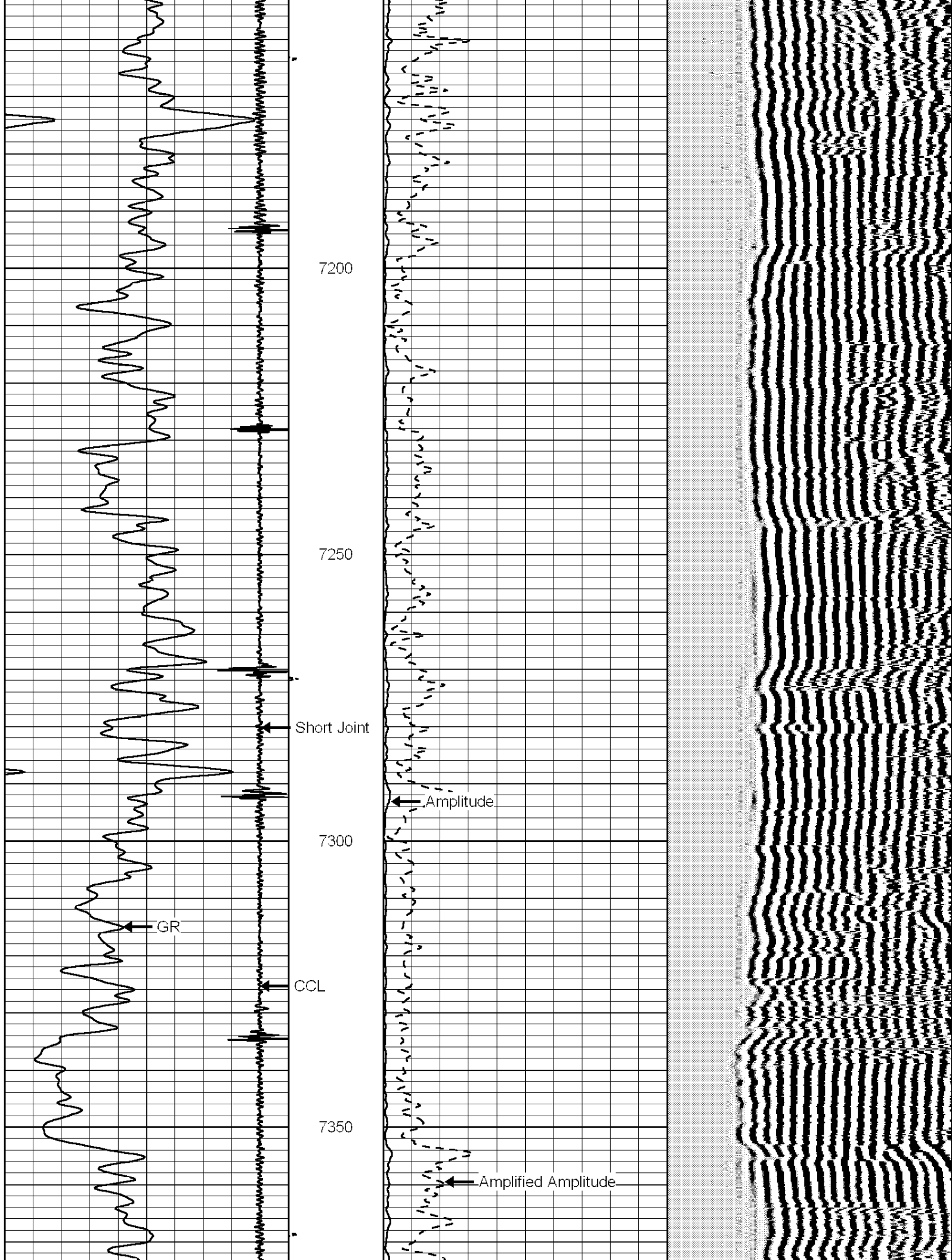
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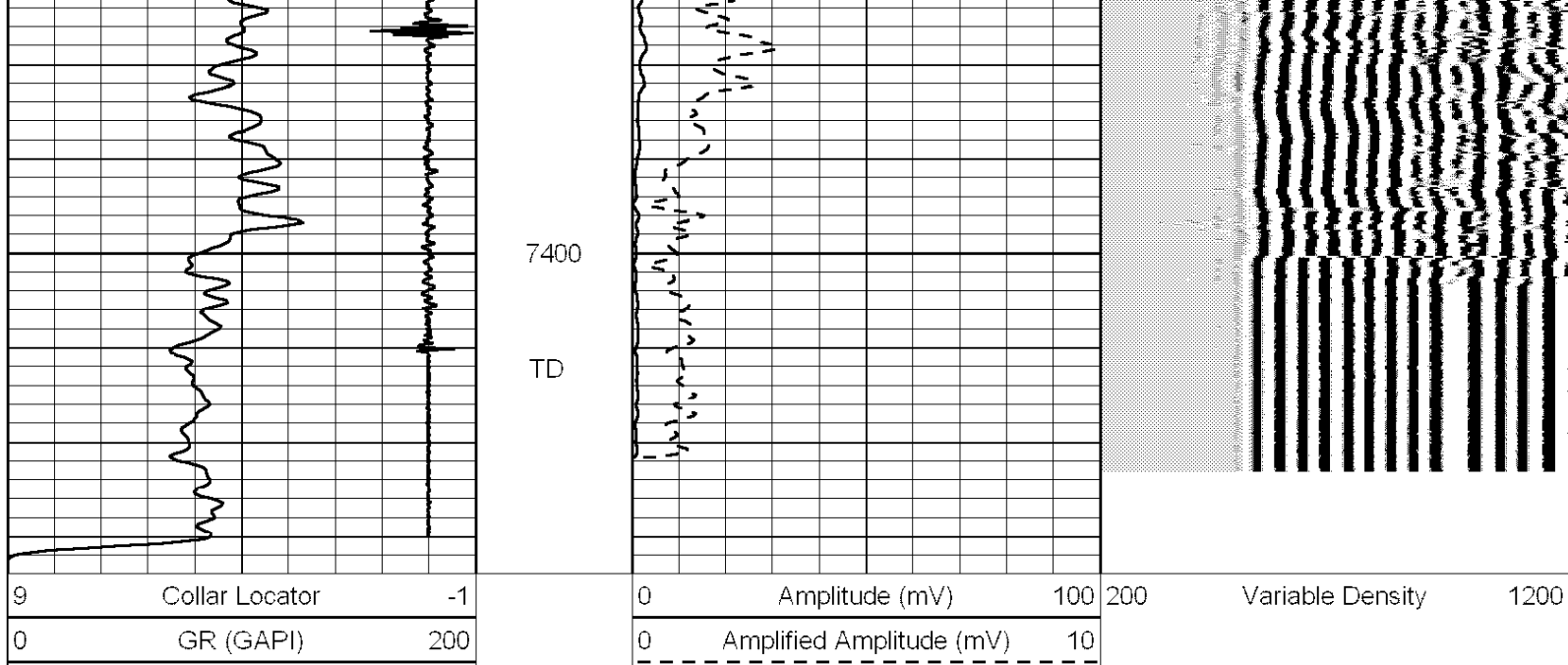
6900

Short Joint









Main Pass

HALLIBURTON

5"=100'

Calibration Report

Database File: kerr-mcgee frank 35-31 cbl.db
 Dataset Pathname: pass3
 Dataset Creation: Wed Feb 04 08:16:37 2009 by Log Halliburton Casedho

Gamma Ray Calibration Report

Type / Serial: probe275dig / pr050806

SHOP CALIBRATION

Thu Jan 29 15:03:55 2009

	Counts/Sec.	Gain	Offset	Jig	Units
Background	94.8				cps
Calibrator	356.9				cps
		0.9005			GAPI/cps

PRIMARY VERIFICATION

Thu Jan 29 15:07:00 2009

Background	85.8				cps
Calibrator	322.9				cps
Difference				237.1	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

CBL Calibration Report

Serial Number: 040201

Tool Model:	PRB275_Dig	
Performed:	Wed Feb 04 07:55:04 2009	
Depth:	1299.532	ft
Casing Diameter:	5.500	in
	3' Spacing	
Signal Zero:	0.000	mV
Calibrated Amplitude:	82.000	mV
Reading at Signal Zero:	0.007	V
Reading in Free Pipe:	0.451	V
Gain:	184.601	
Offset:	-1.275	

Temperature Calibration Report

Serial Number:	040201
Tool Model:	PRB275_Dig
Performed:	Sat Oct 27 13:52:34 2007

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps
Gain:	0.10			
Offset:	0.00			
Delta Spacing	1			

Company	Kerr-McGee Oil & Gas Onshore
Well	Frank 35-31
Field	Wattenberg
County	Weld

State	CO
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HALLIBURTON

Cement Bond
Gamma Ray
CCL