



Sonic Cement Bond Log

Pioneer Energy Services

API No.

15-171-20982-00-00

Company Lario Oil & Gas Company

Well Gaschler-Krause Unit No. 1-20

Field Wildcat

County Scott

State Kansas

Location

1060' FNL & 2480' FEL

Other Services

Sec: 20 Twp: 18 S Rge: 34 W

Elevation

Permanent Datum Ground Level Elevation 3128

Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 3140
D.F. 3128
G.L. 3128

Run Number One

Date Survey 10-10-2013

Date Cementing 09-30-2013

Type Cementing Operation Primary

Depth Driller 5000

Depth Logger 4980

Logged Interval 4979 to 3000

Casing Driller 5.5 @ TD @

Float Collar -- D.V. Tool /// 2414

Squeeze Depth ///

Amount & Type Cement ///

Amount & Type Admix ///

Type Fluid In Hole Water

Fluid Level 526

Salinity PPM CL ///

Weight lb/gal -- Vis. ///

Approx. Logged Cement Top 3184

Calculated Cement Top

Max. Hole Temperature 126

Tool No. RBT 71

Spacing Recorded 3-5

Equipment -- Location 71 Hays

Recorded By Scott Clement

Witnessed By Jason Majors

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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.

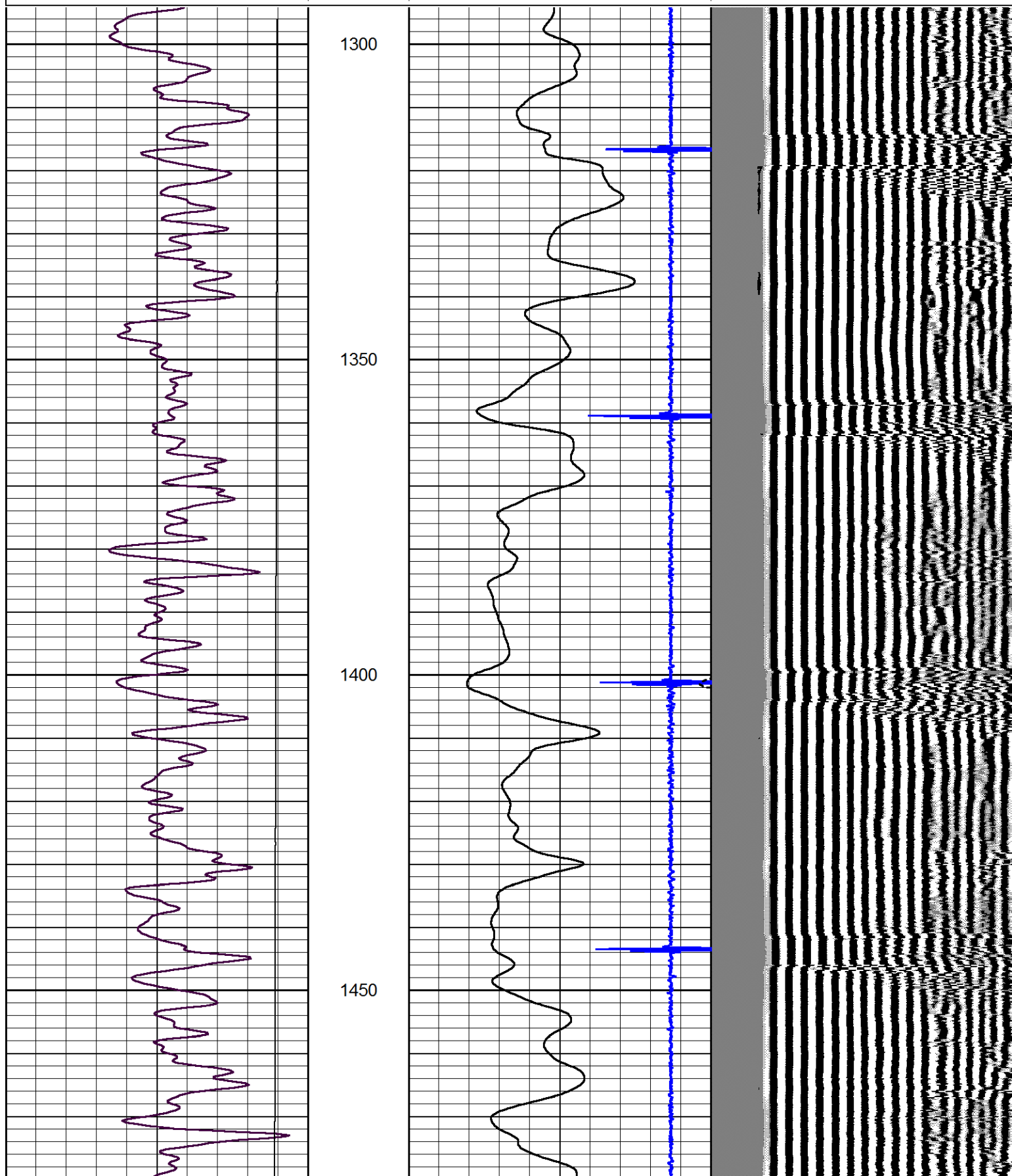
Comments

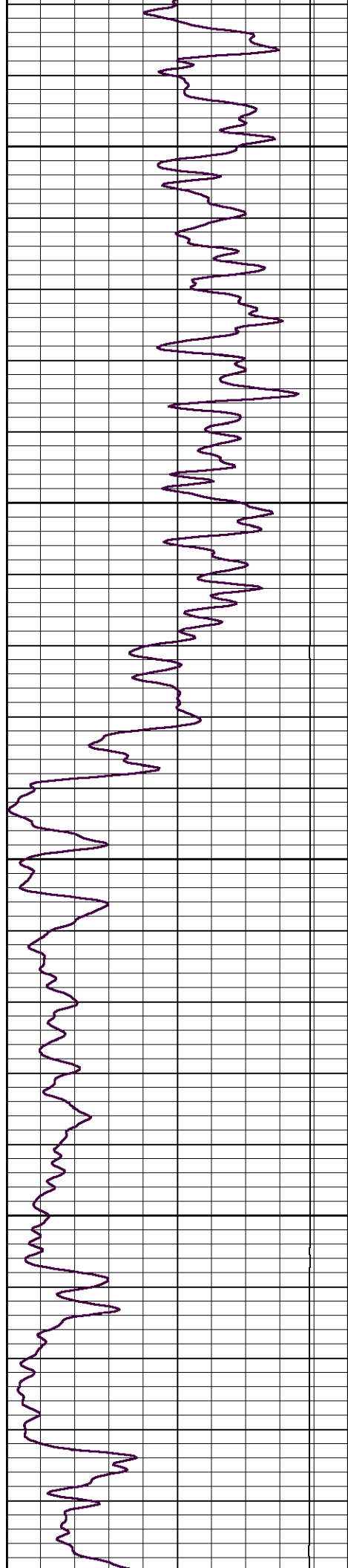
Thank you for using Pioneer Energy Services
(785) 625-3858

Modoc Ks, 1/2 West, South Into

Database File: lario_gaschlkrause_unit_#1-20.db
Dataset Pathname: grcbl/pass4
Presentation Format: cbldr
Dataset Creation: Fri Oct 11 16:28:23 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	4	Casing Collars	-0.6	200	wvf5ft	1200
			(mV)	0	Amplified Amplitude (mV)	100			
			-100 10	0	Pipe Amplitude (mV)	20			





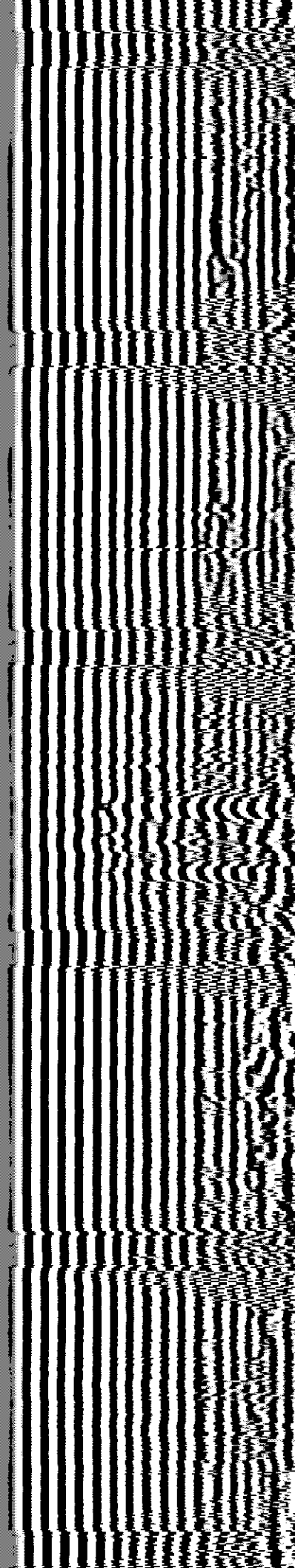
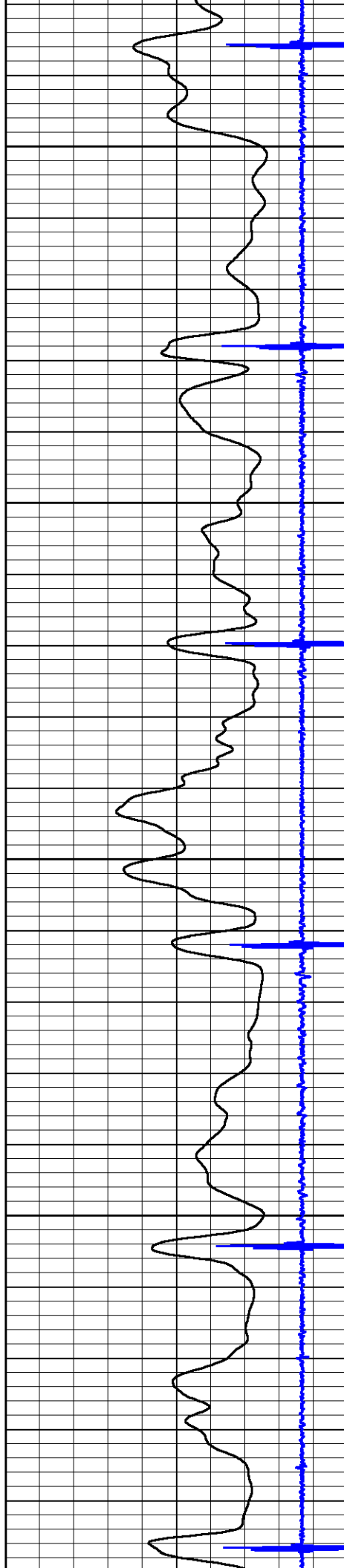
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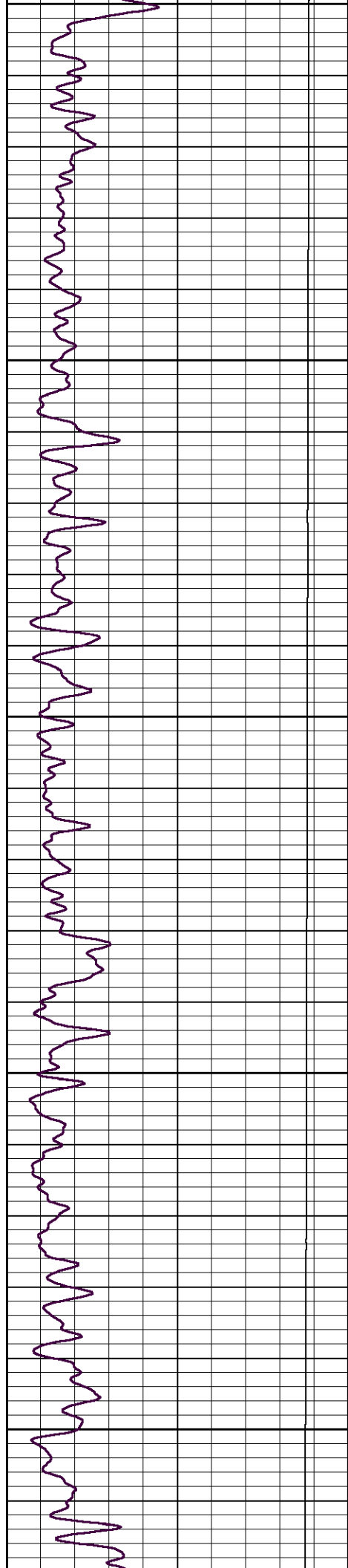
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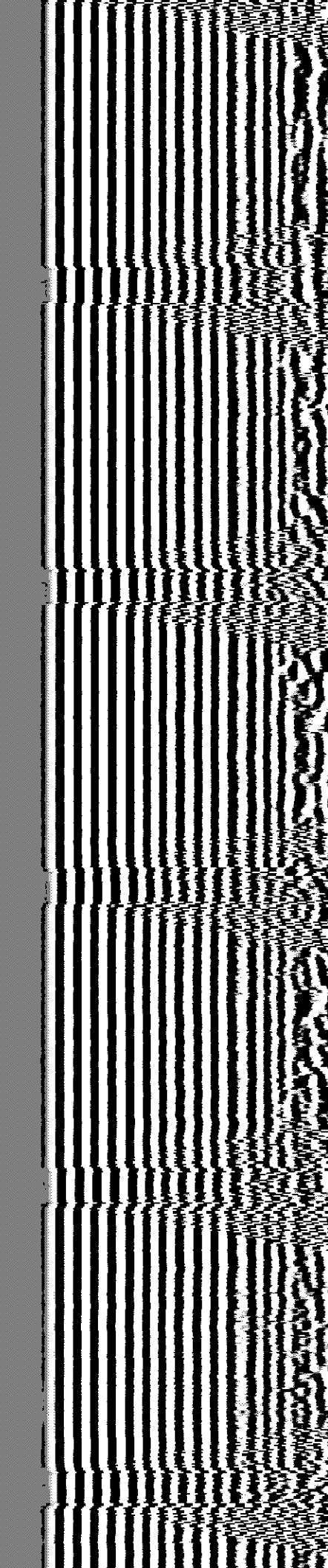
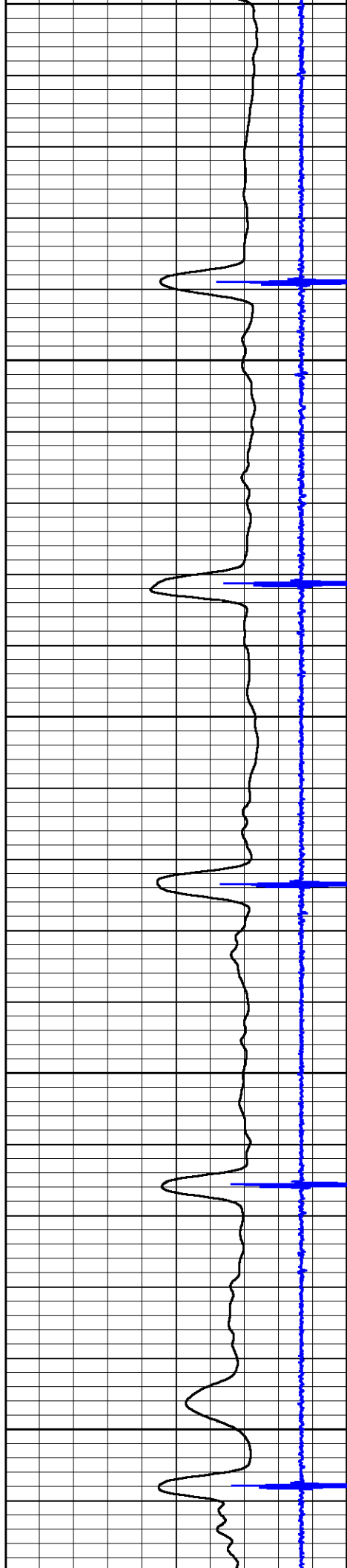
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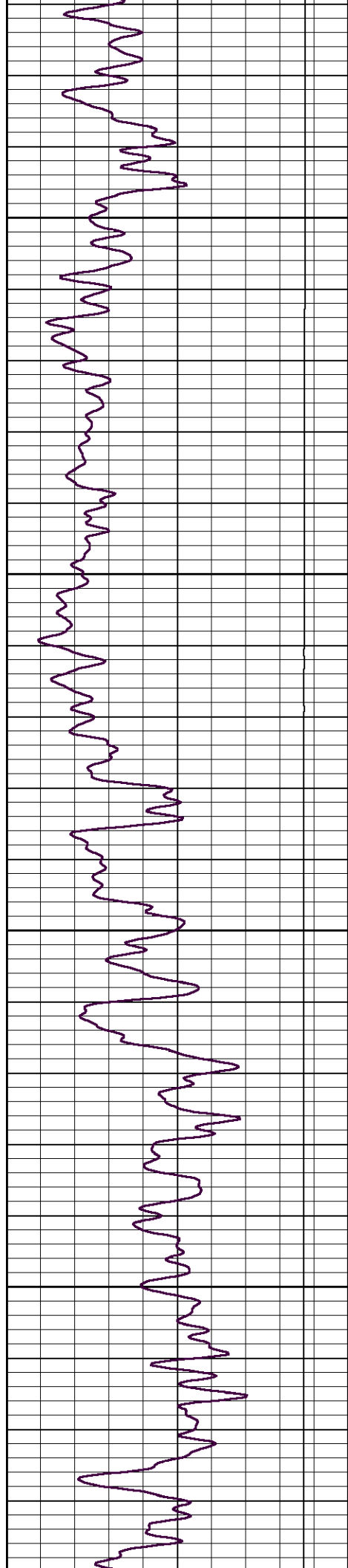
1700





1700 1750 1800 1850 1900



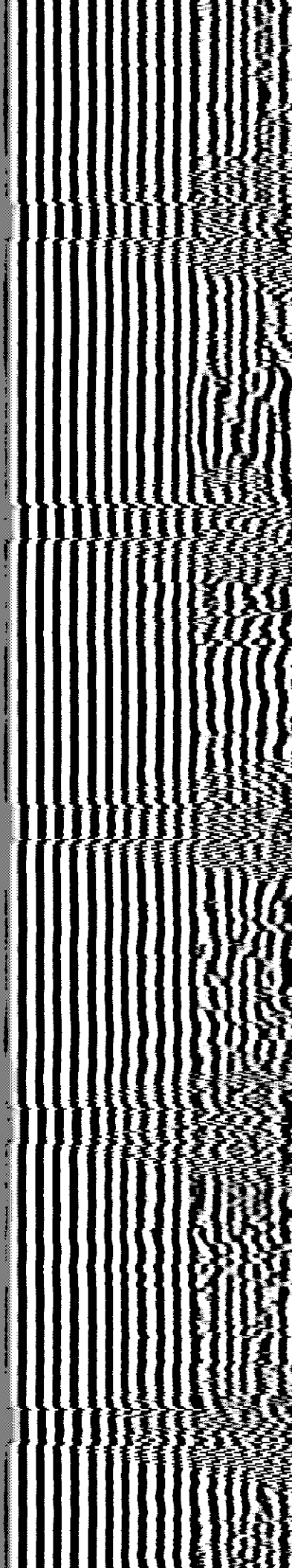
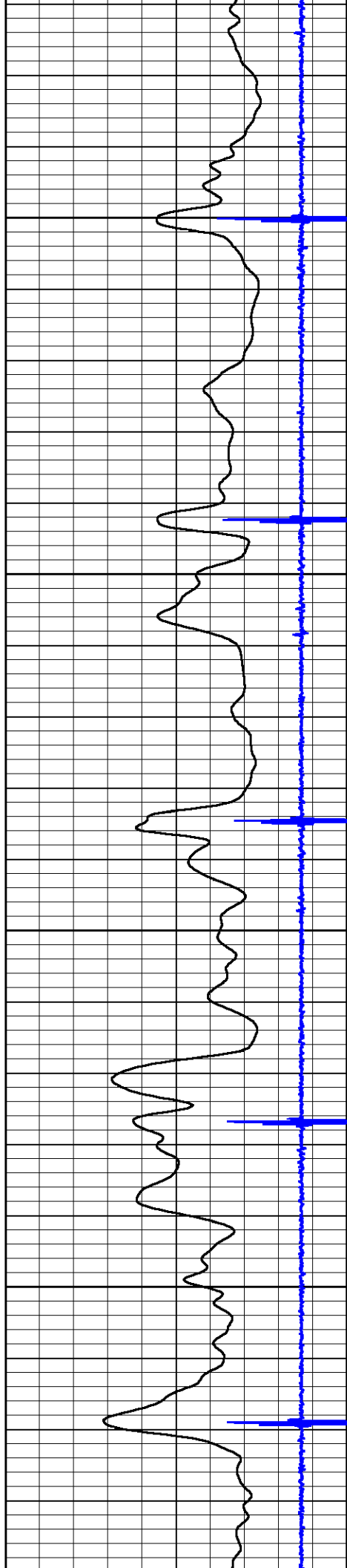


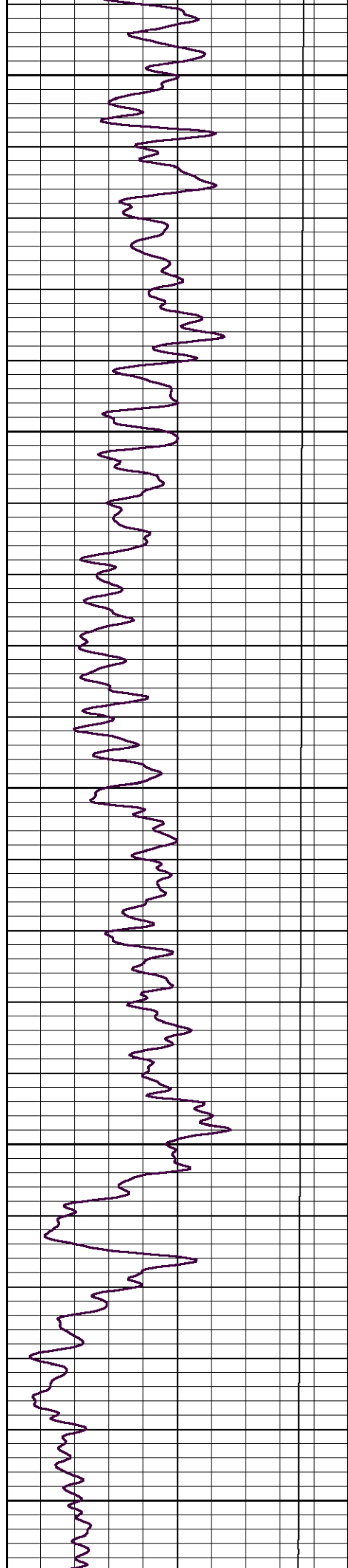
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2000

2050

2100





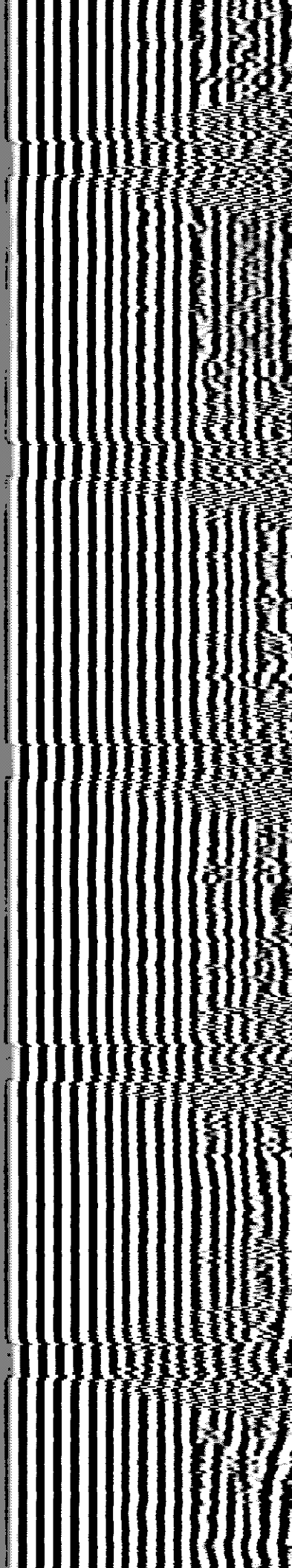
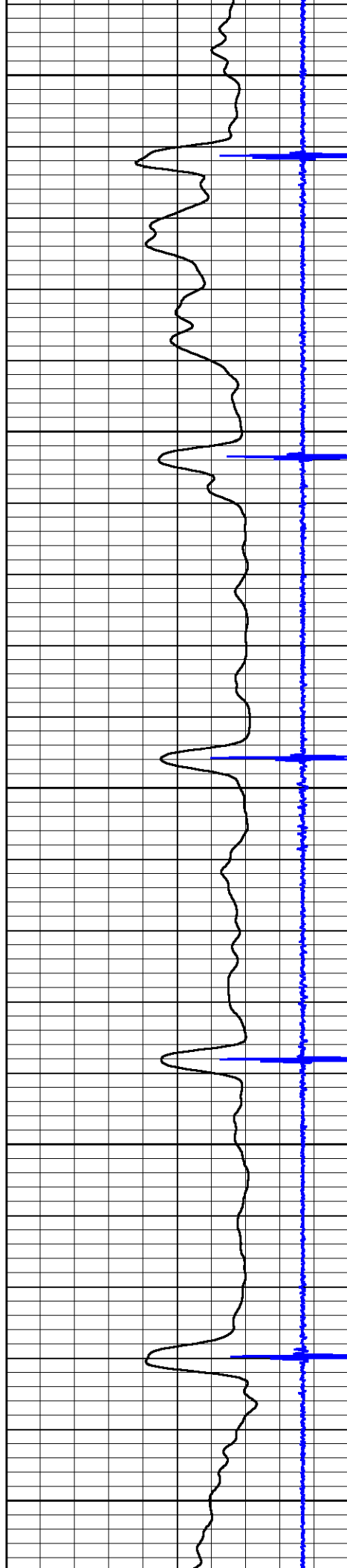
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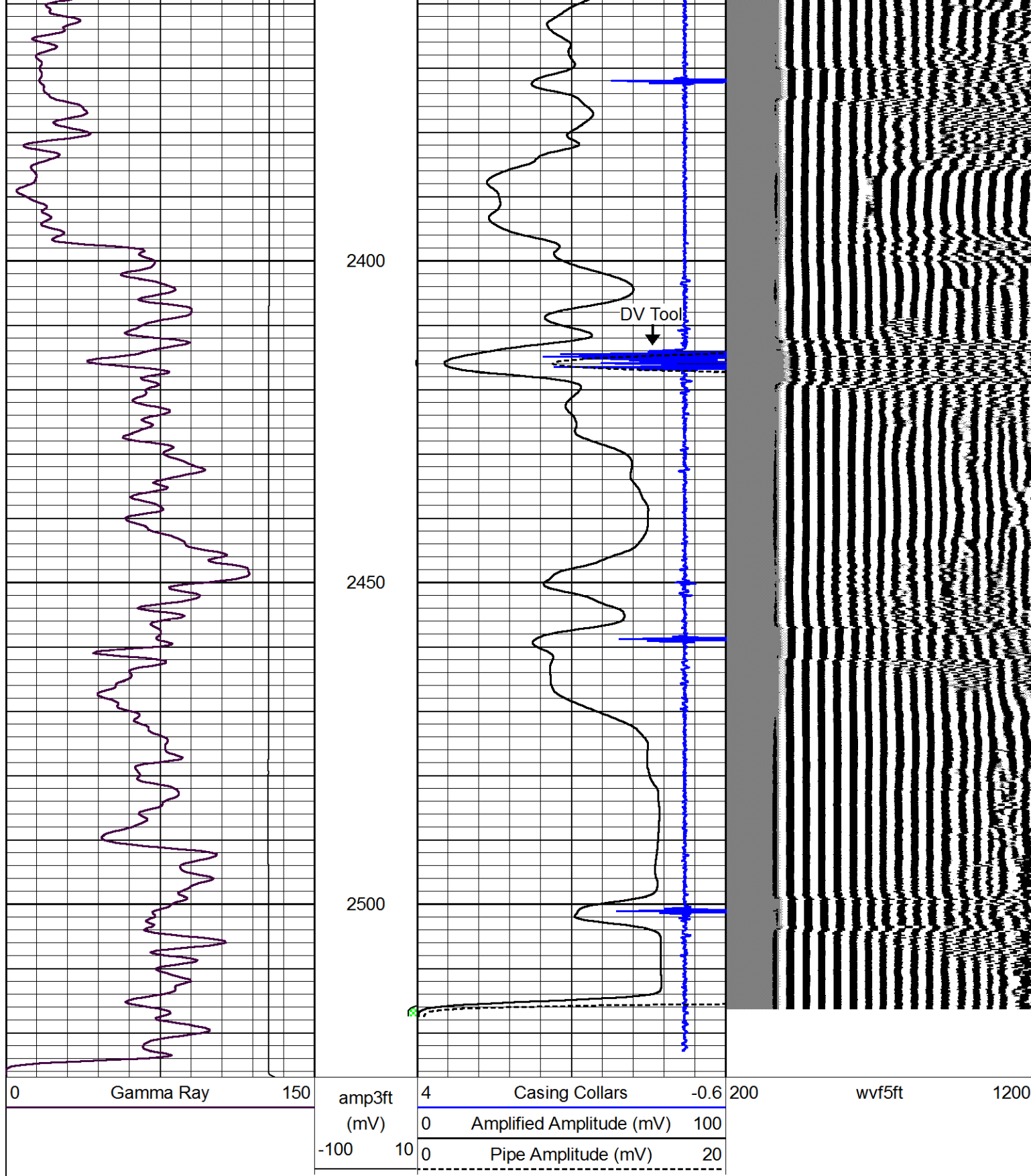
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2300

2350

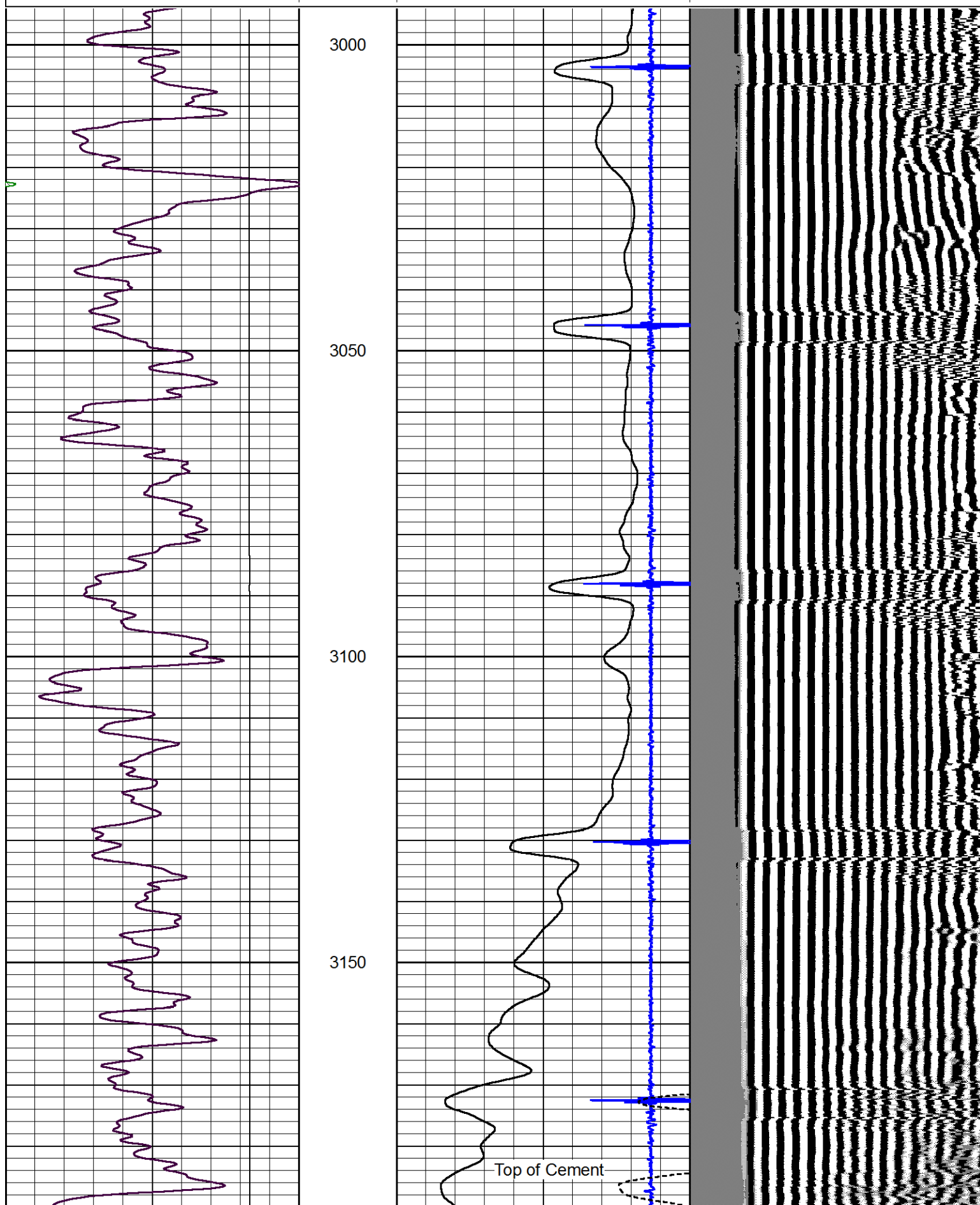


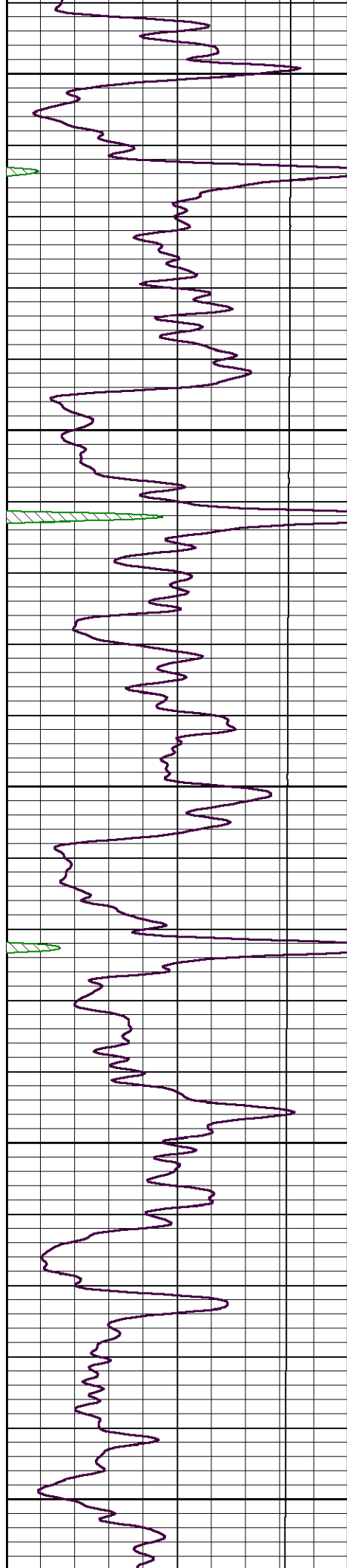


Main Pass

Database File: lario_gaschlkrause_unit_#1-20.db
 Dataset Pathname: grcbl/pass3
 Presentation Format: cbldr

0	Gamma Ray	150	amp3ft (mV)	4	Casing Collars	-0.6	200	wvf5ft	1200
			-100 10	0	Amplified Amplitude (mV)	100			
				0	Pipe Amplitude (mV)	20			





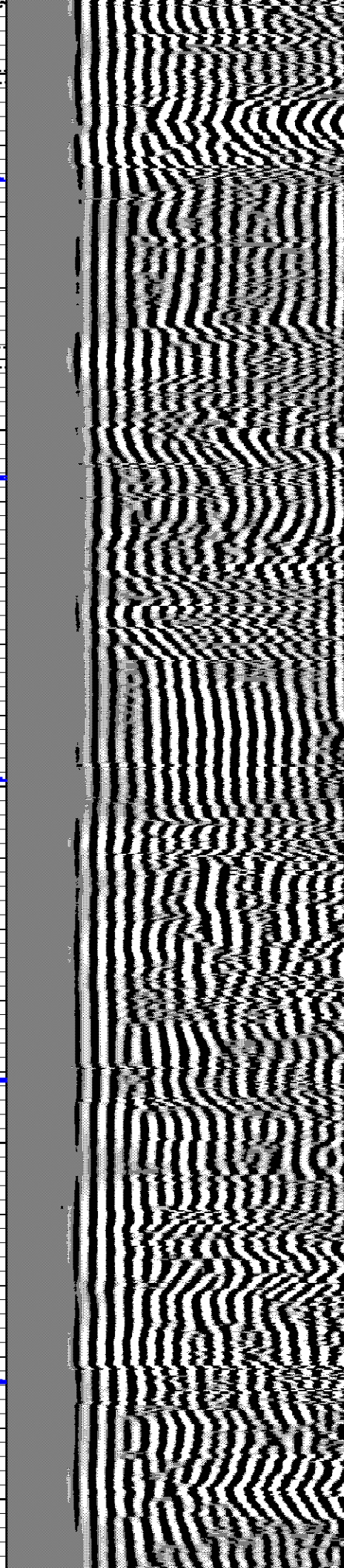
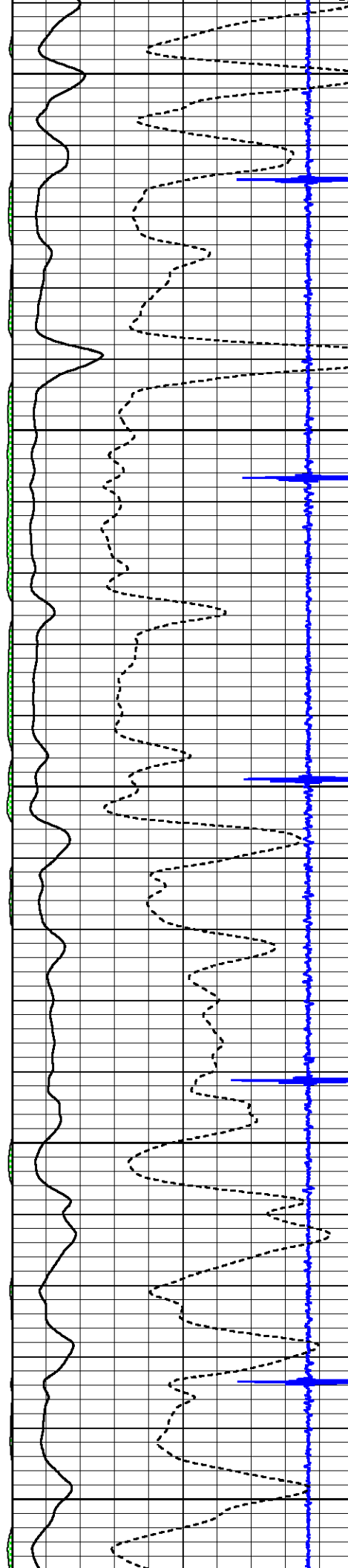
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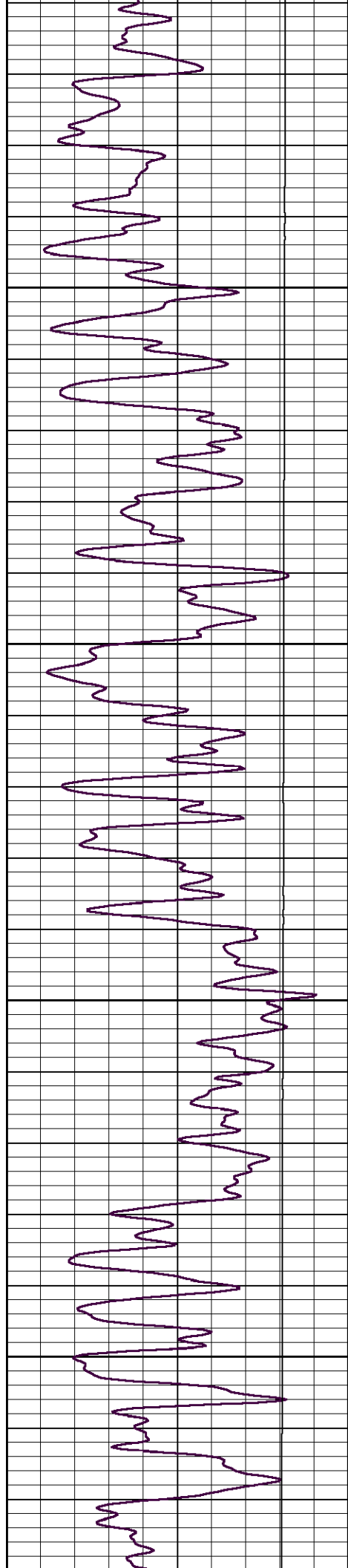
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3300

3350

3400



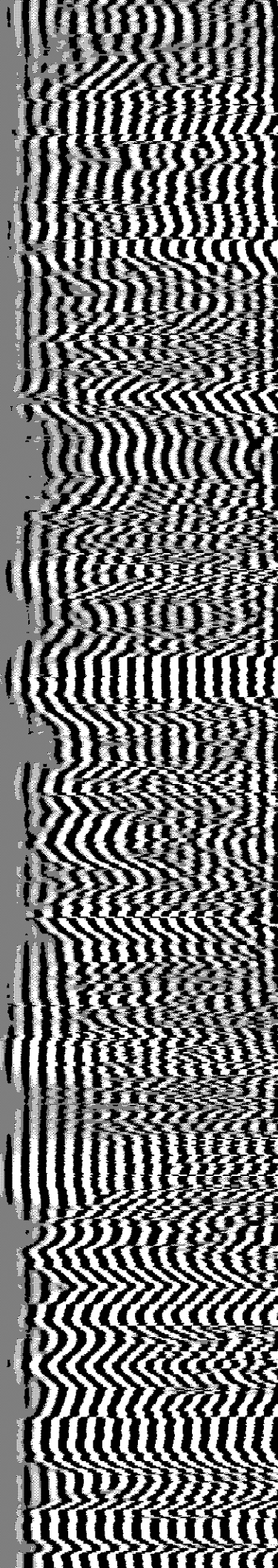
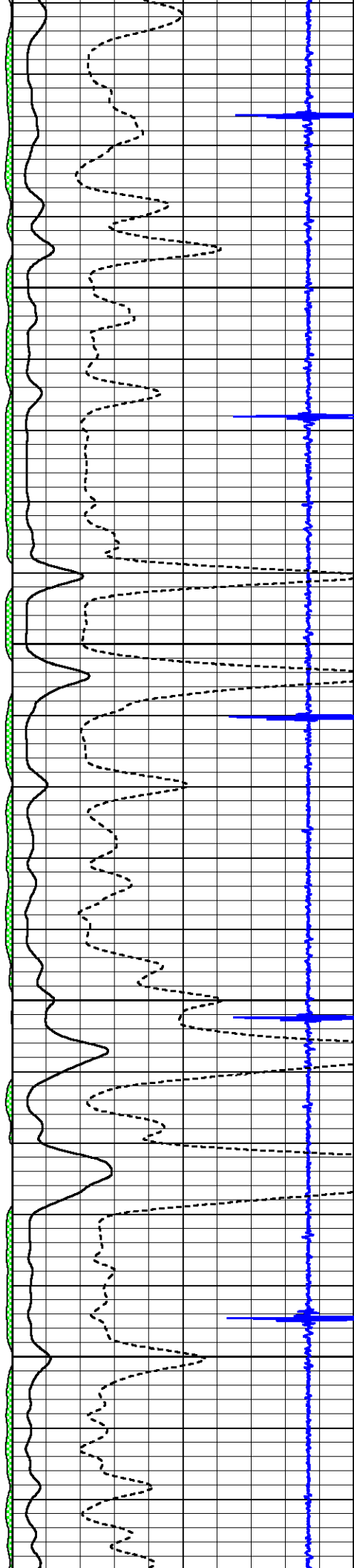


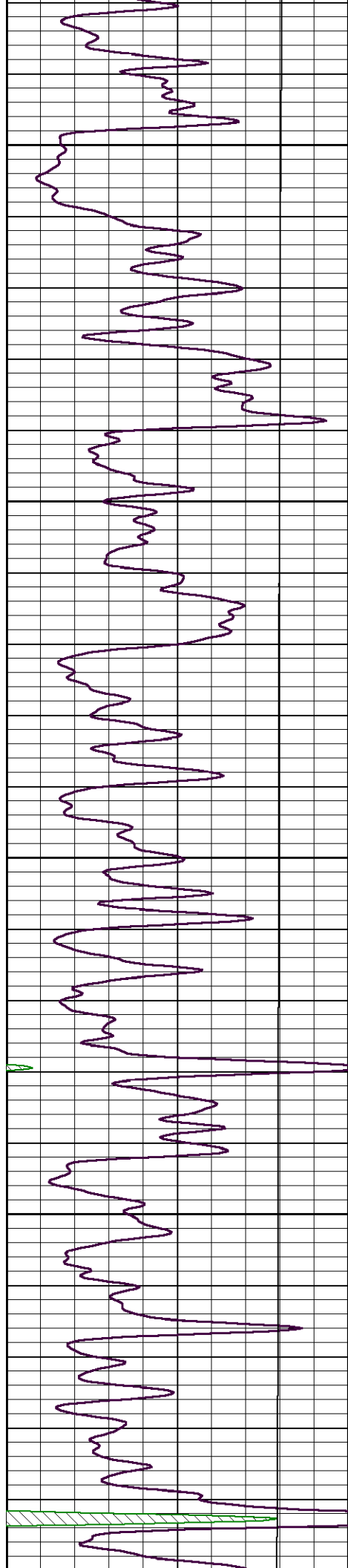
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3500

3550

3600





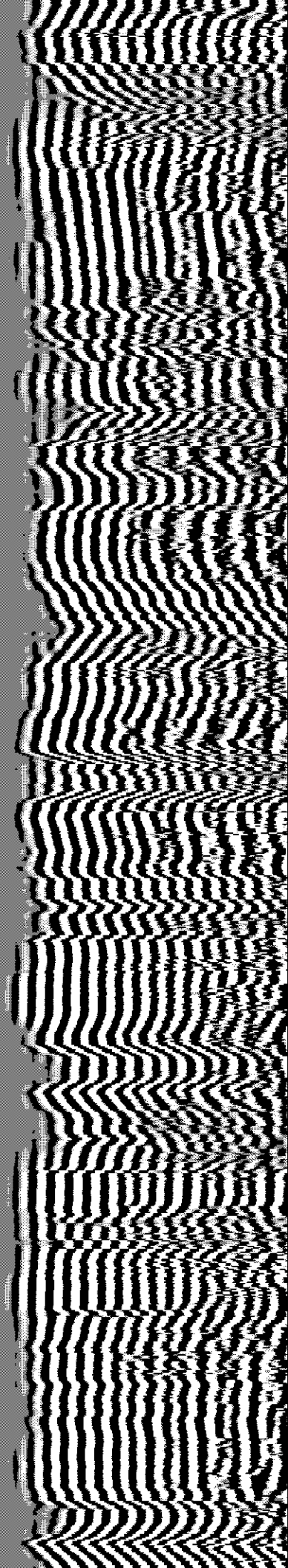
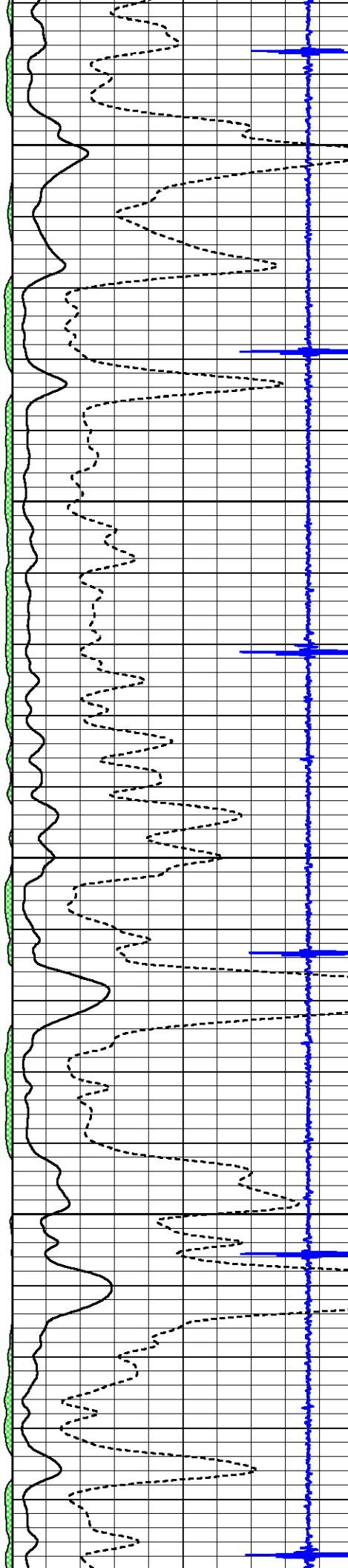
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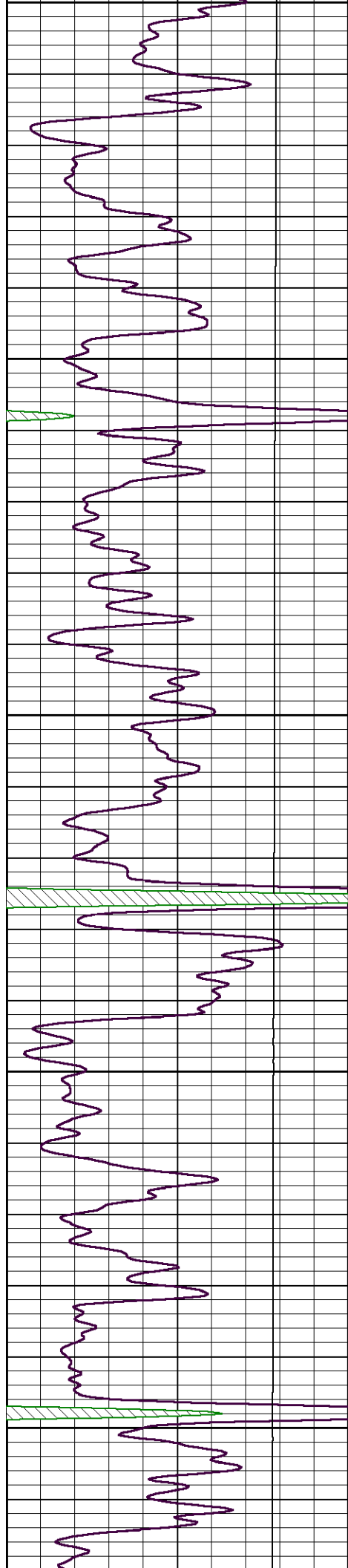
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3850





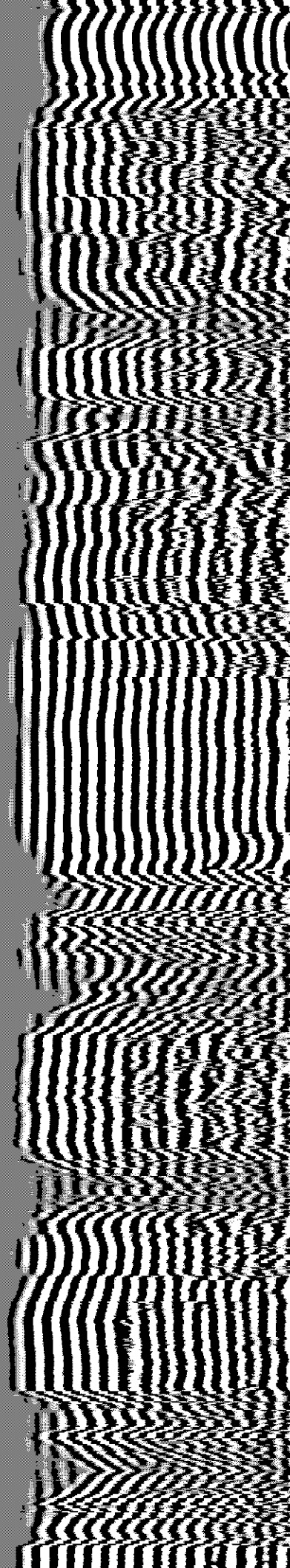
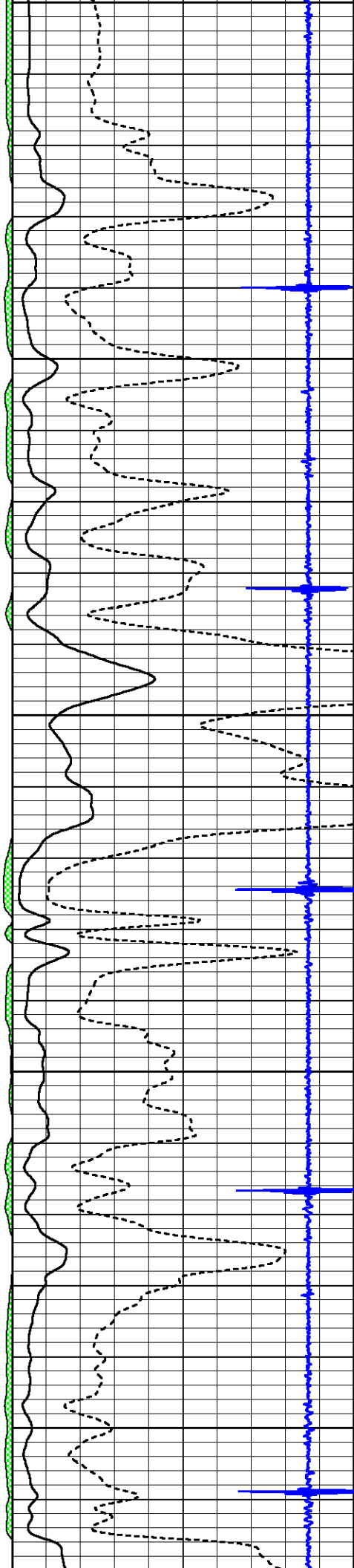
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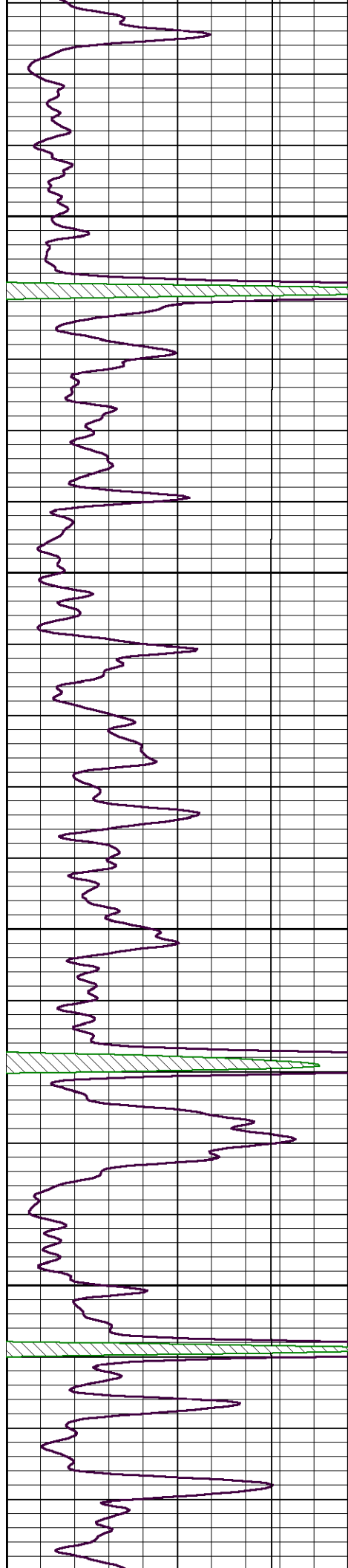
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4050



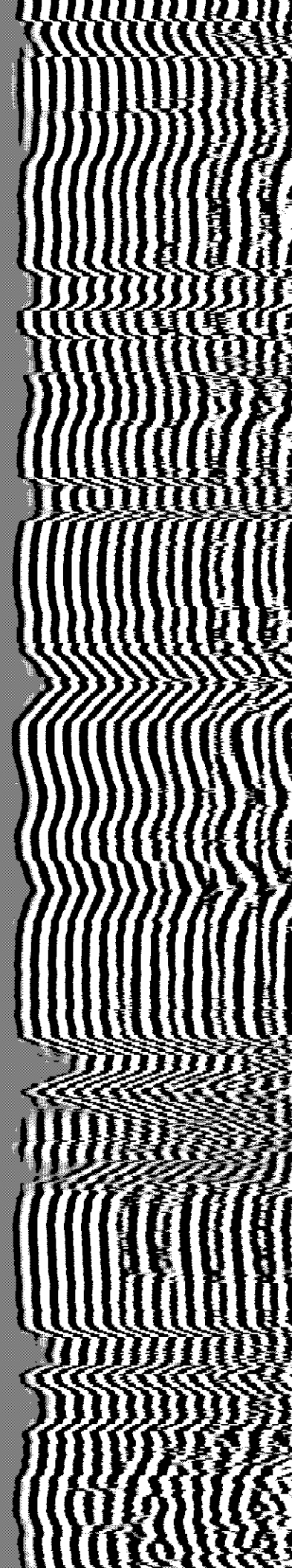
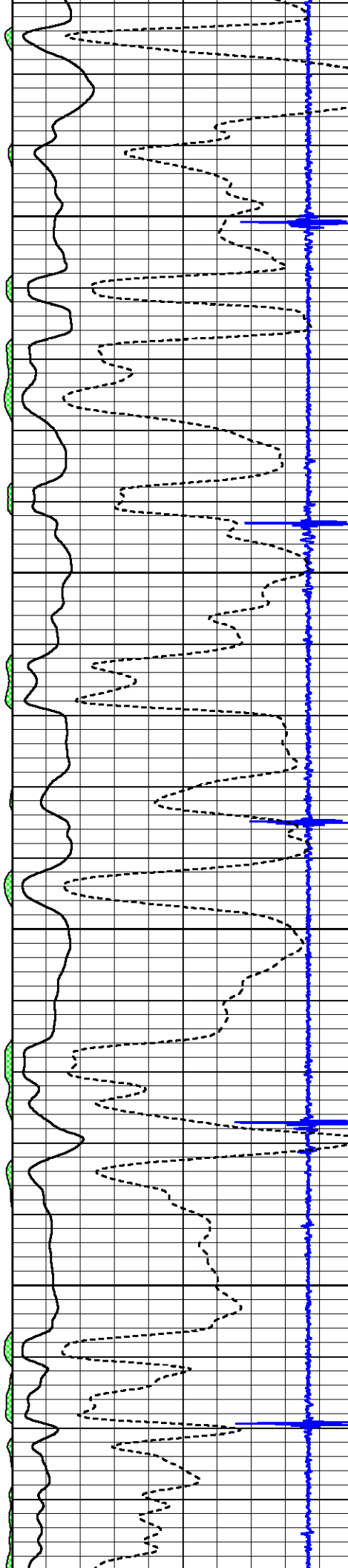


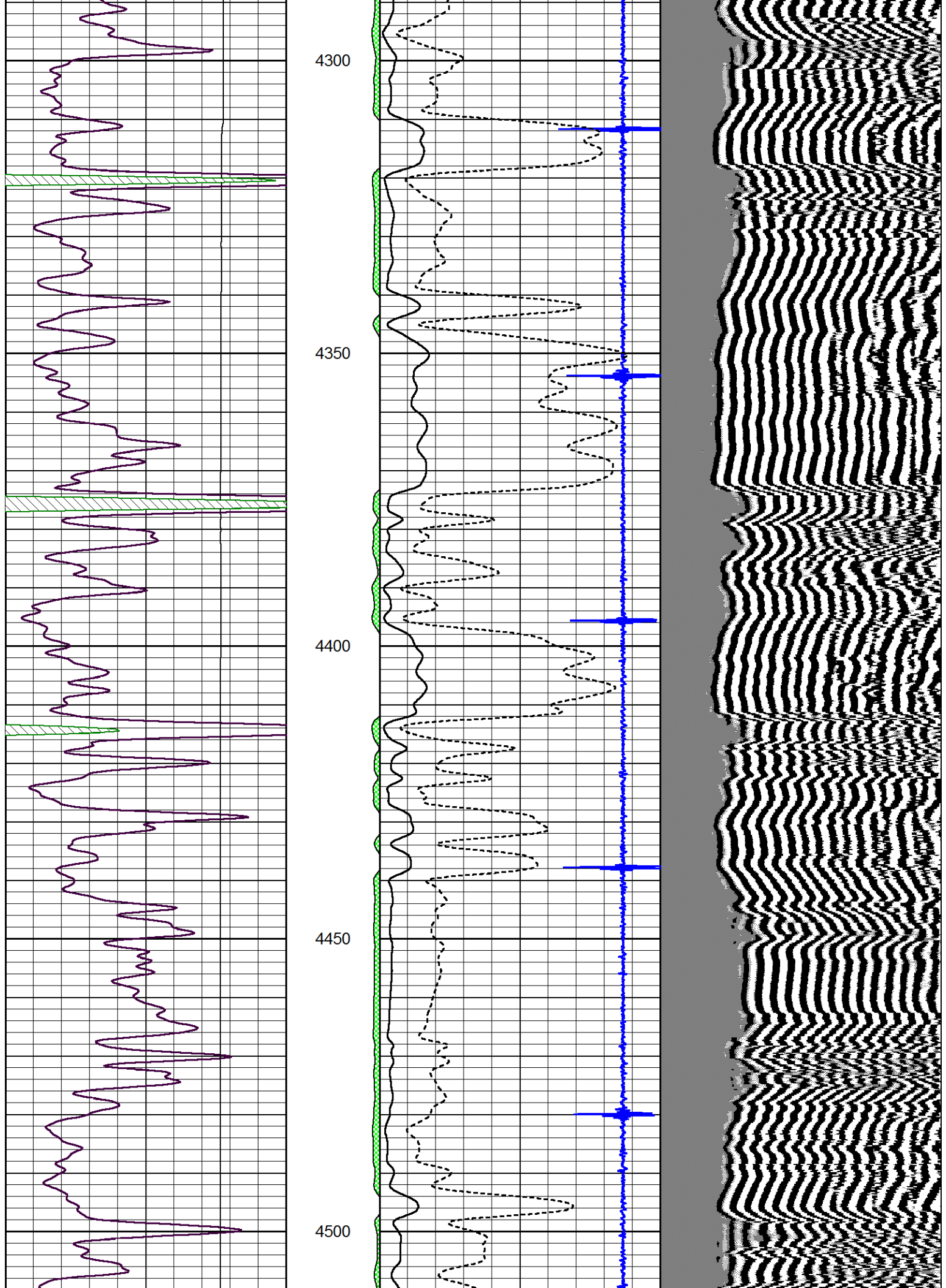
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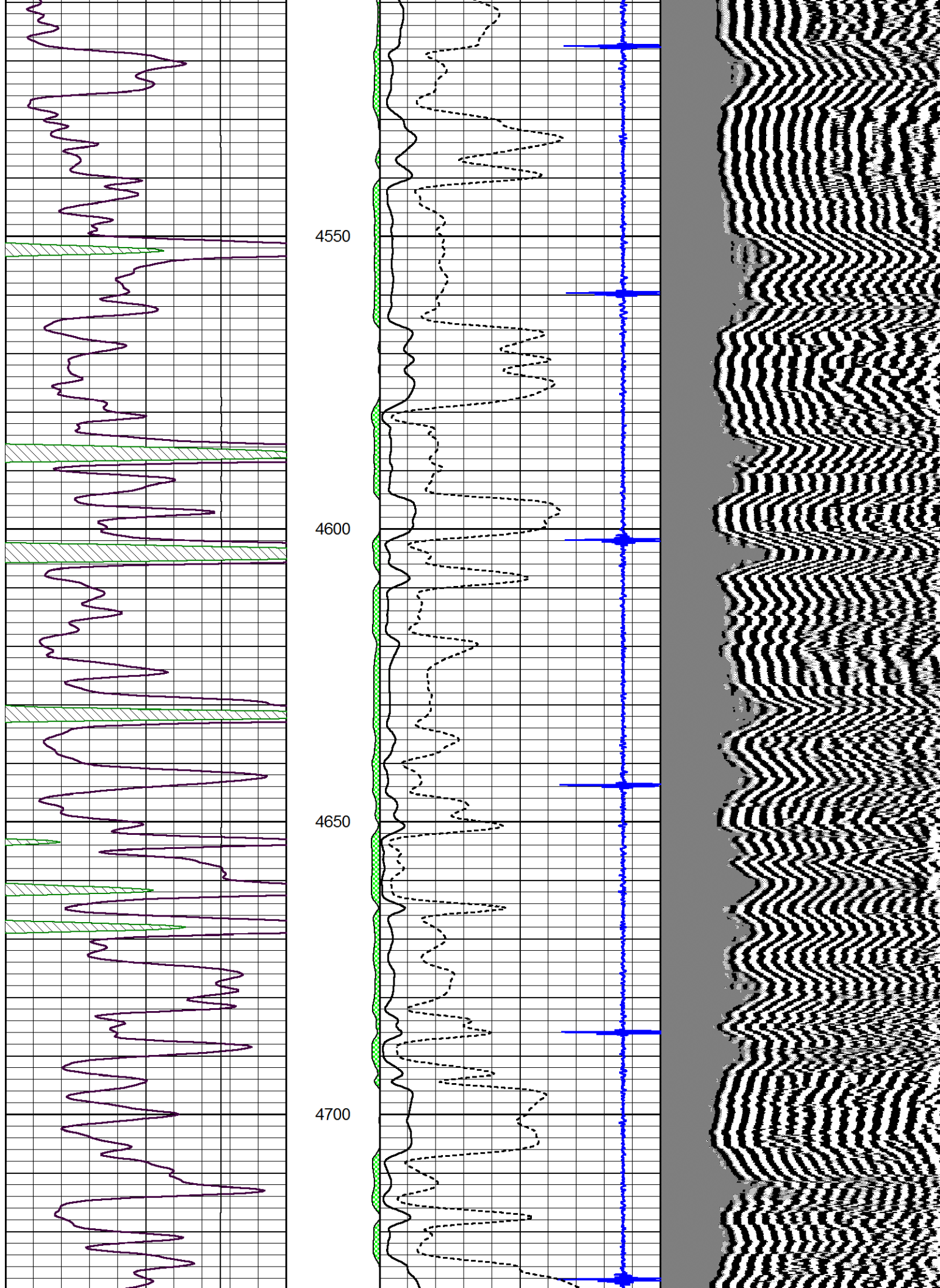
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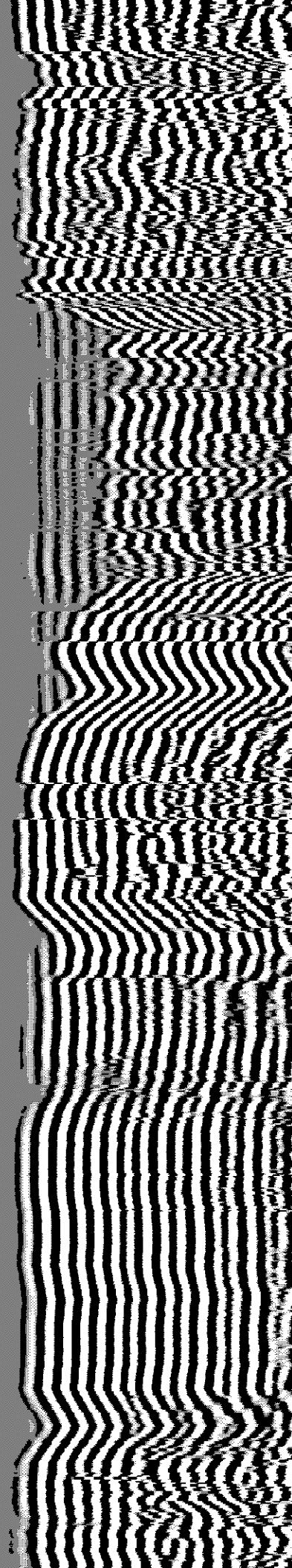
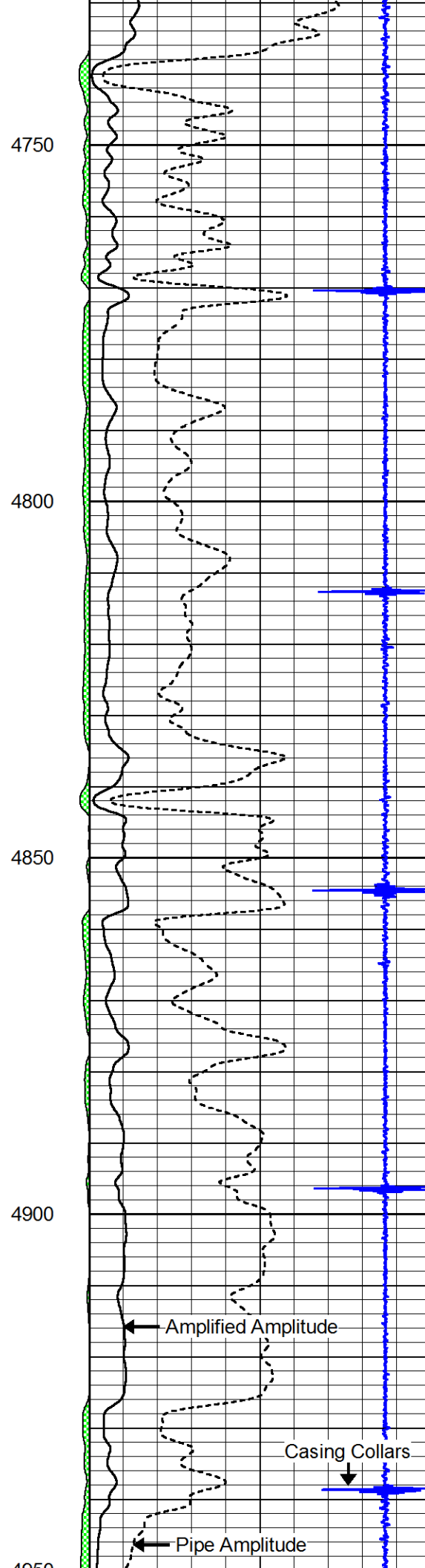
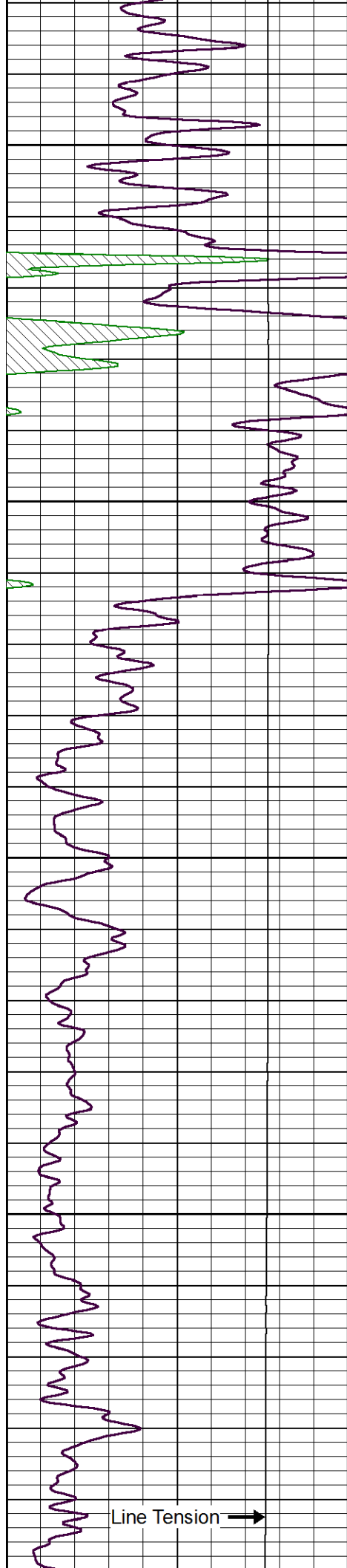
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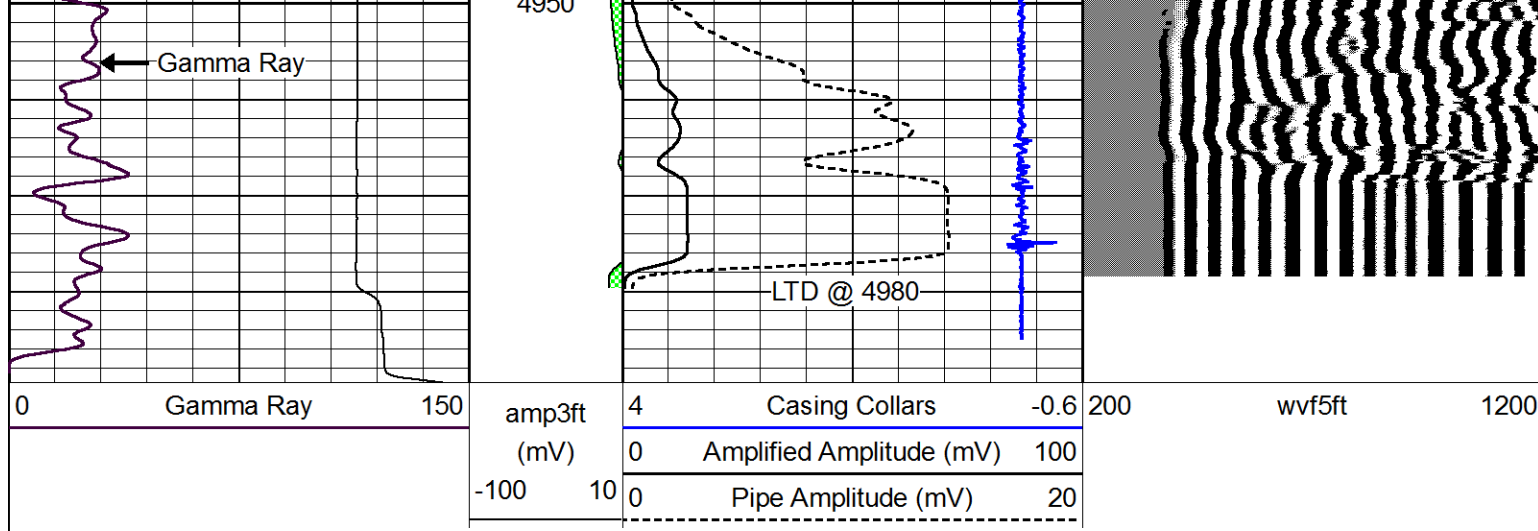
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Repeat Section

Database File: lario_gaschlkrause_unit_#1-20.db
 Dataset Pathname: grcbl/pass2
 Presentation Format: cbldr
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 Charted by: Depth in Feet scaled 1:240

