



PIONEER

Pioneer Energy Services

Sonic Cement Bond Log

API No.

15-135-25629-00-00

Company Cobalt Energy LLC.

Well VonLehe "A" No. 1-27

Field Wildcat

County Ness State Kansas

Location

SW-NW-SE-NE
1885' FNL & 1030' FEL

Other Services

Sec: 27 Twp: 18 S Rge: 24 W

Elevation

Permanent Datum Ground Level Elevation 2261

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

Drilling Measured From Kelly Bushing K.B. 2273
D.F. 2261
G.L. 2261

Run Number One

Date Survey 07/25/2013

Date Cementing 07/13/2013

Type Cementing Operation Primary

Depth Driller 4400

Depth Logger 4357

Logged Interval 4356 to 3050

Casing Driller 5.5 @ TD @

Float Collar -- D.V. Tool 1499

Squeeze Depth 1499

Amount & Type Cement 1499

Amount & Type Admix 1499

Type Fluid In Hole Water

Fluid Level 394

Salinity PPM CL 1499

Weight lb/gal -- Vis. 1499

Approx. Logged Cement Top 3192

Calculated Cement Top

Max. Hole Temperature 120

Tool No. D2

Spacing Recorded 3-5

Equipment -- Location 71 Hays

Recorded By Scott Clemons

Witnessed By Joe Rupp

<<< 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.

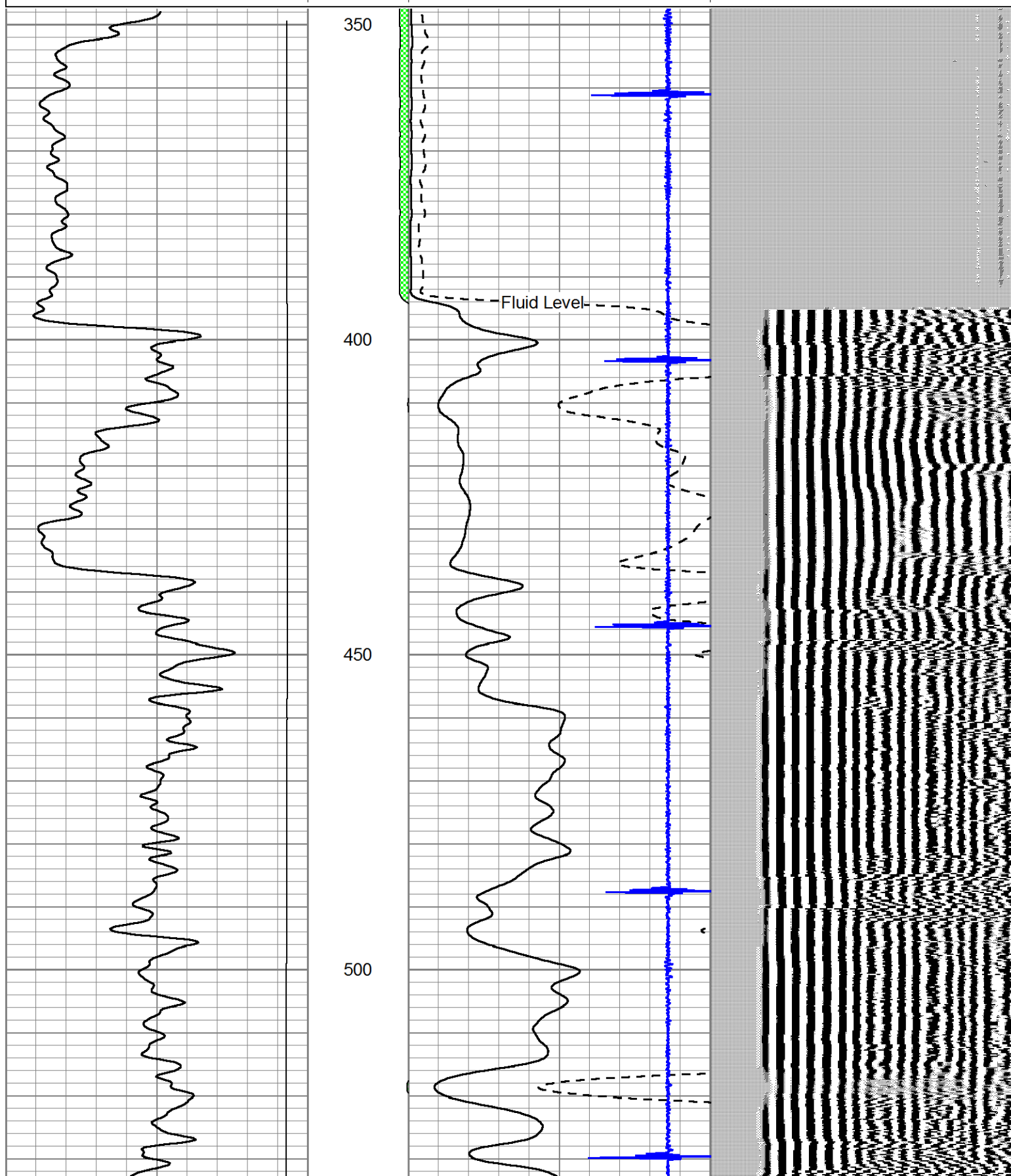
Comments

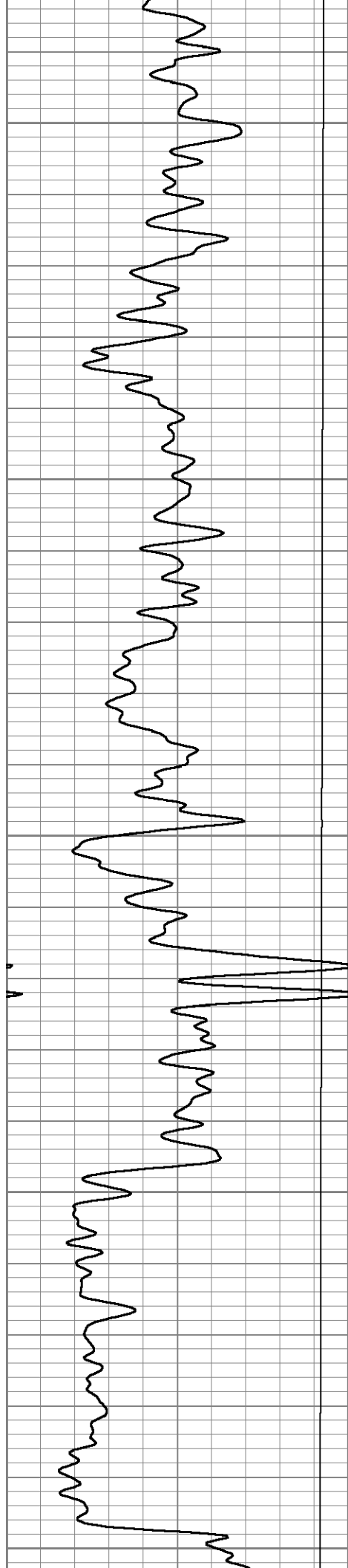
Thank you for using Pioneer Energy Services
(785) 625-3858

Ness City Ks., West to P Rd, 1/2 North, West Into

Database File: cobalt_vonlehe_a#1-27.db
Dataset Pathname: grcbl/pass5
Presentation Format: cbldig
Dataset Creation: Thu Jul 25 09:01:31 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	AMP3	0	Amplitude (mV)	100	200	Variable Density	1200
5000	LTEN (lb)	0	(mV)	0	Amplified Amplitude (mV)	20			
			-100 10	5	Collar Locator	-0.8			





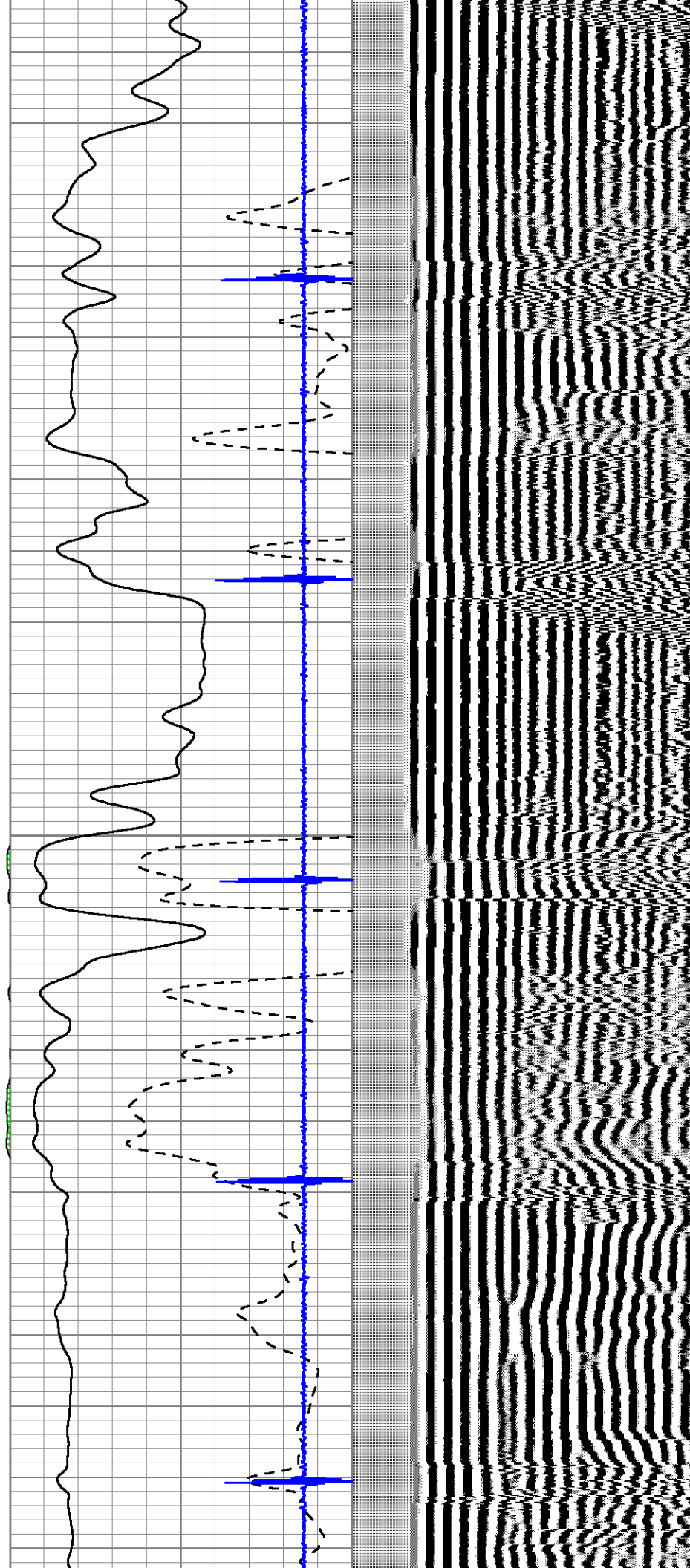
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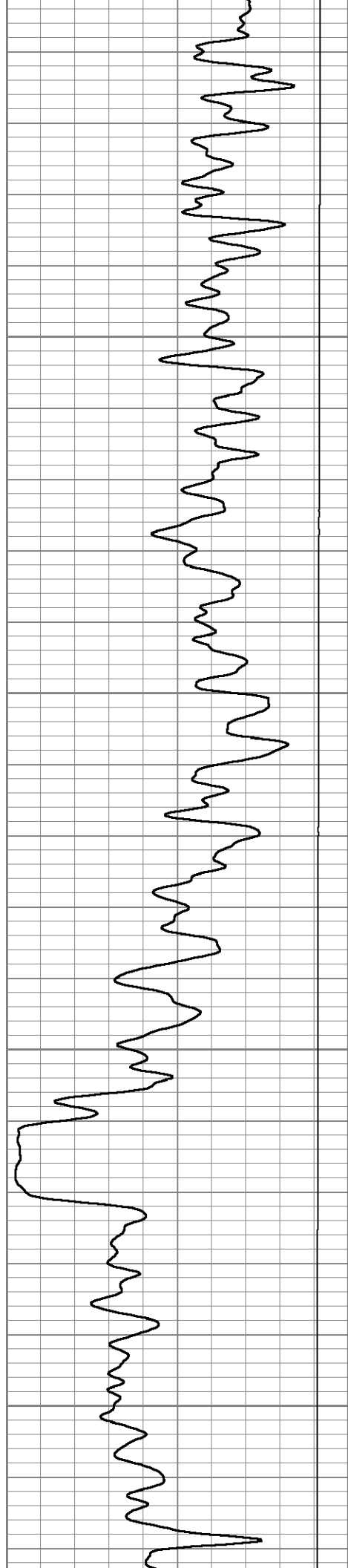
600

650

700

750



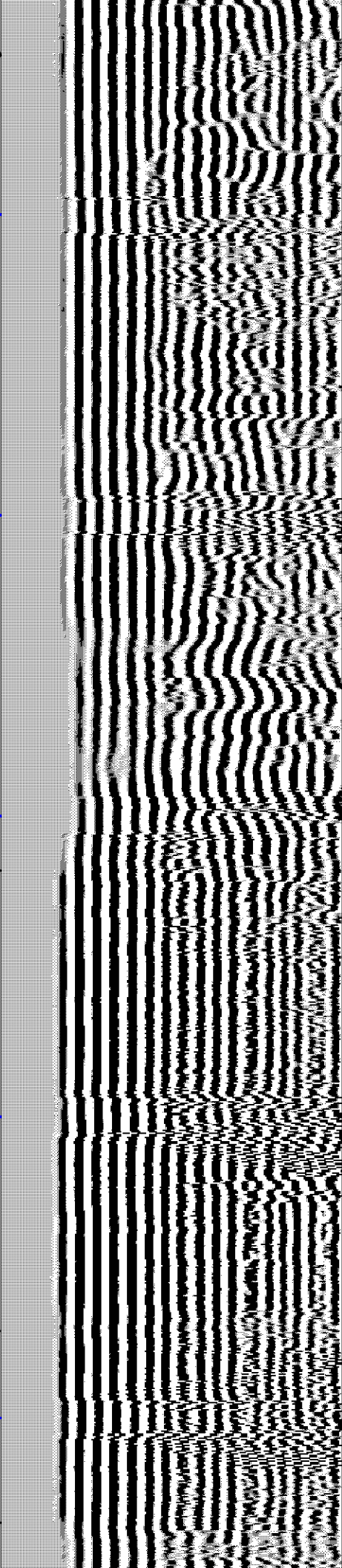
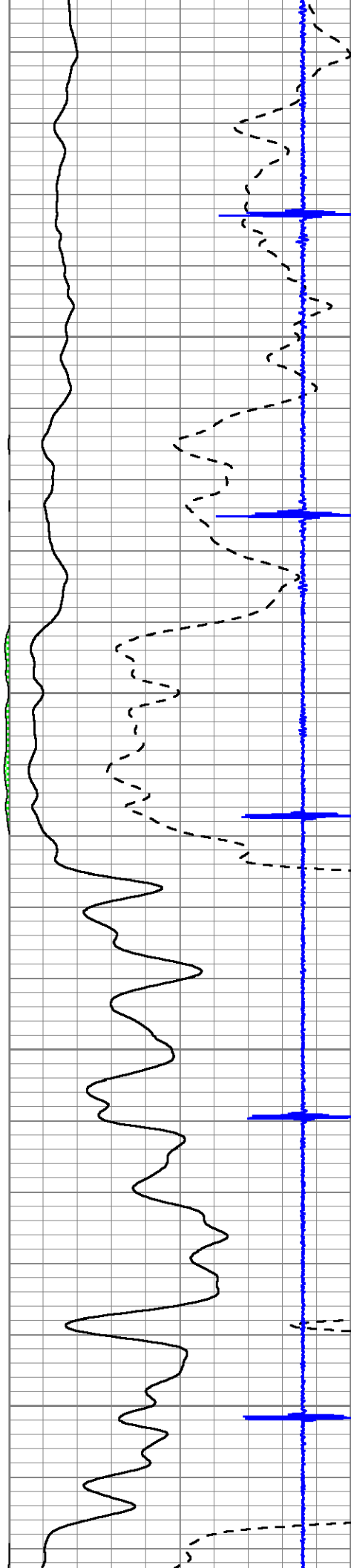


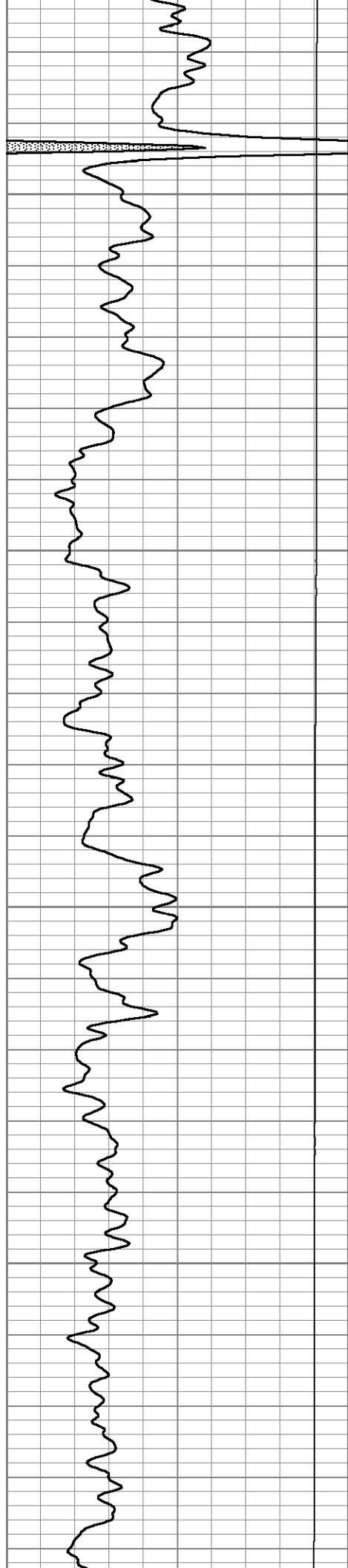
800

850

900

950



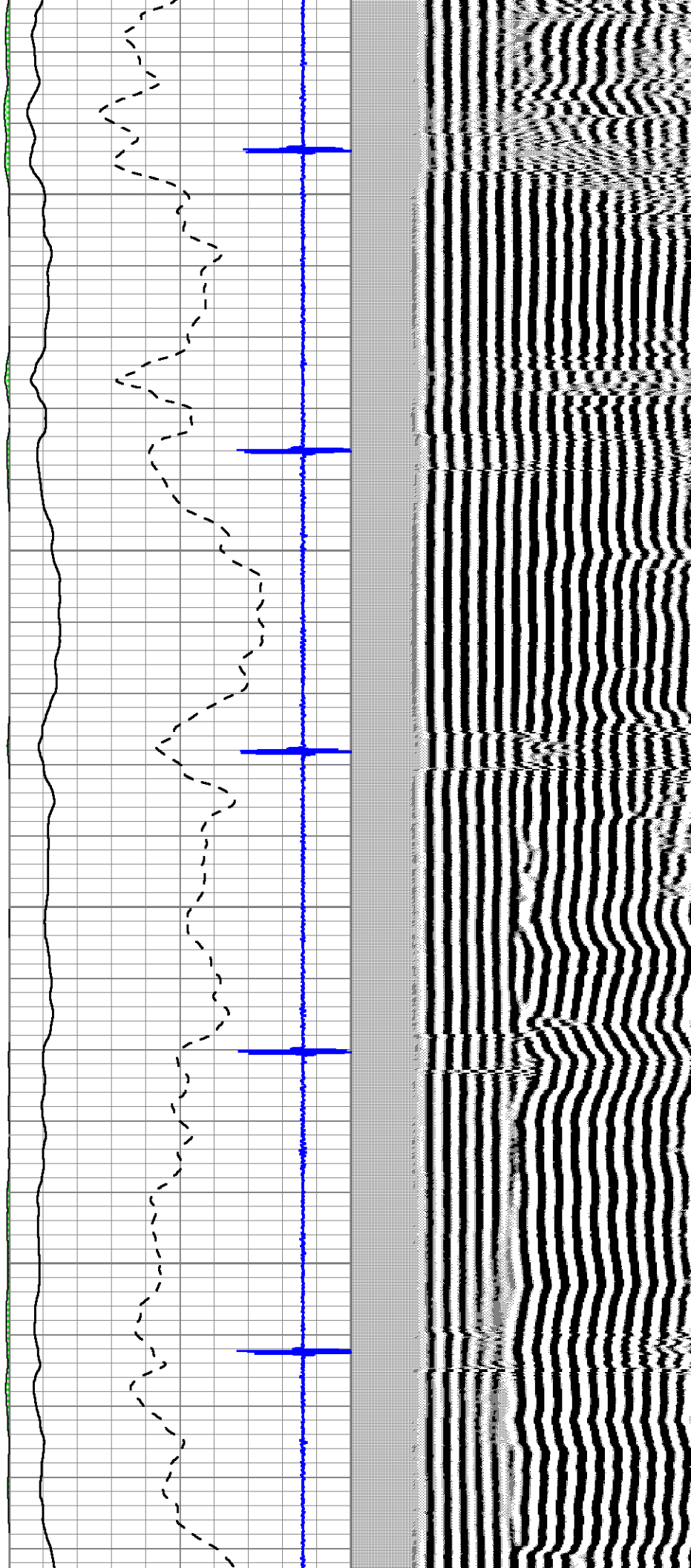


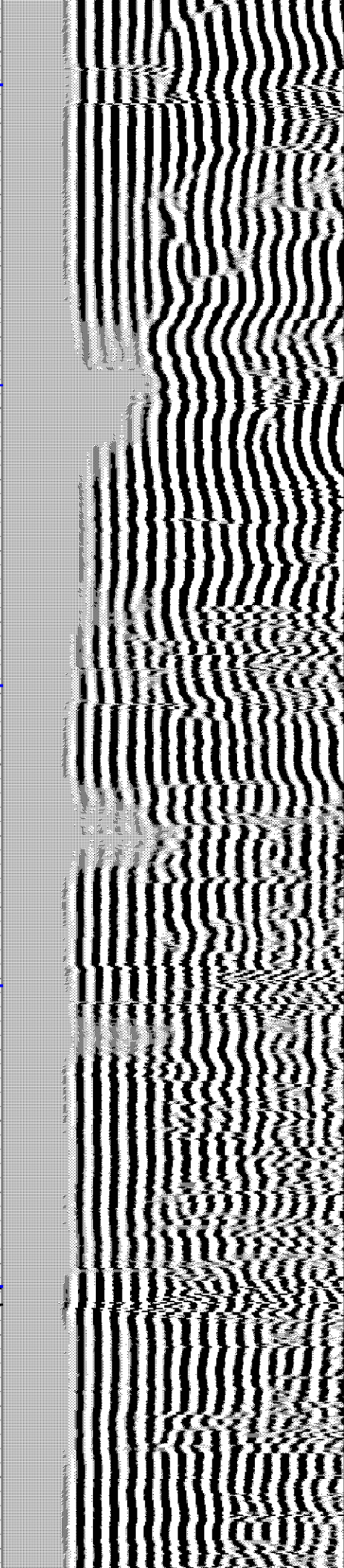
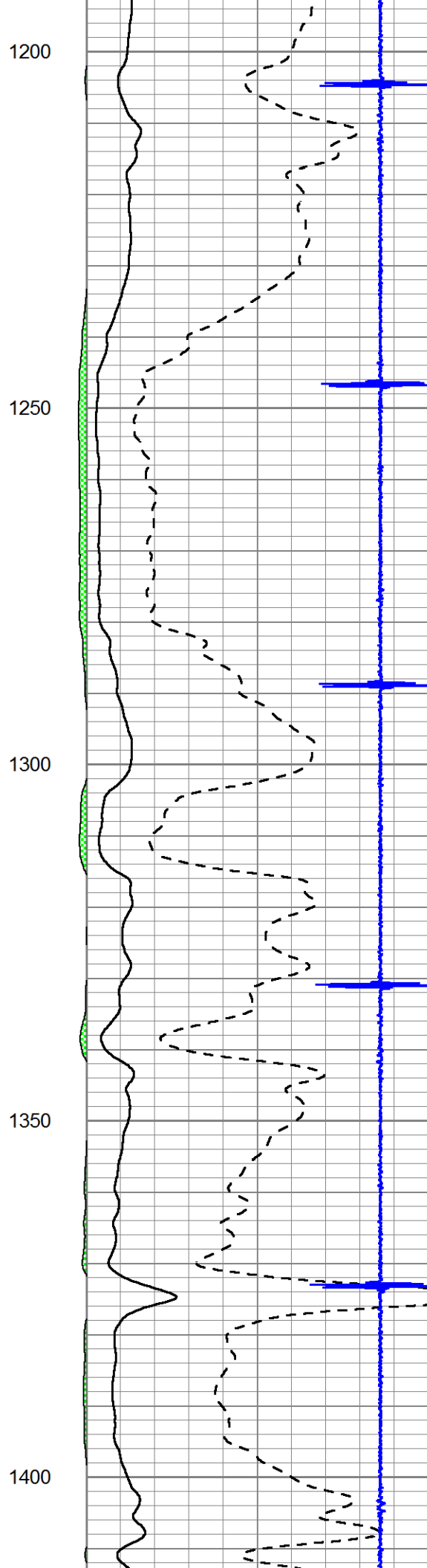
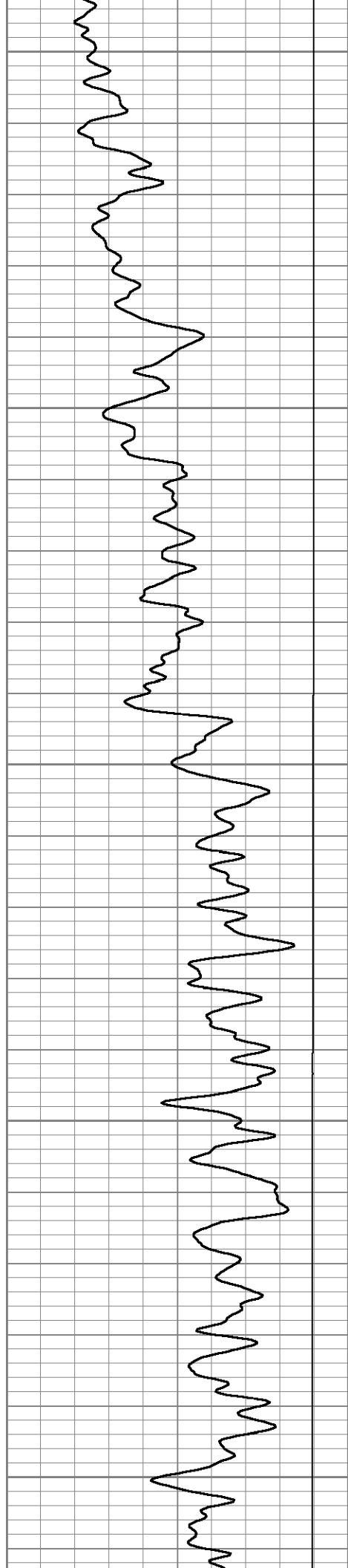
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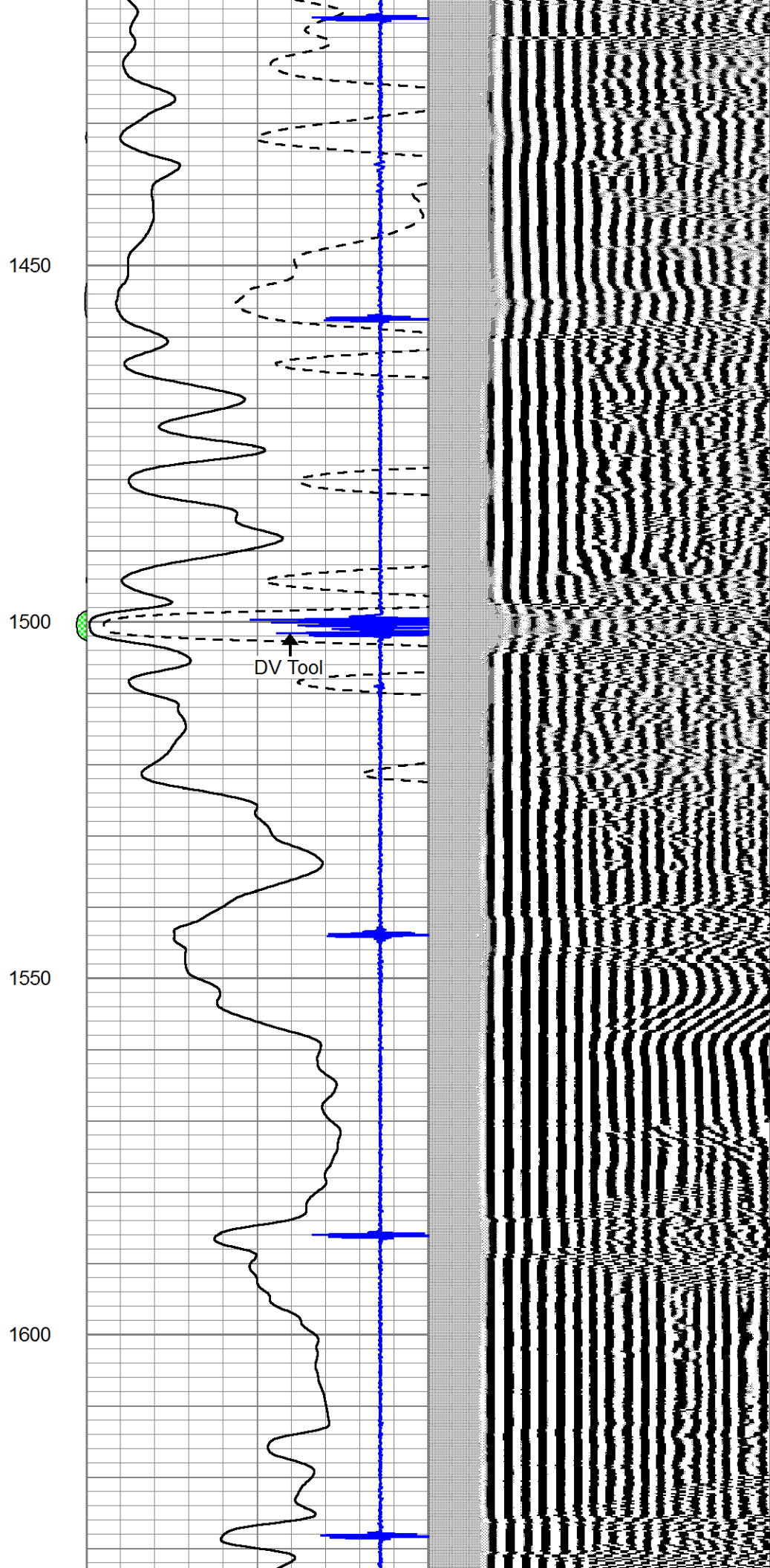
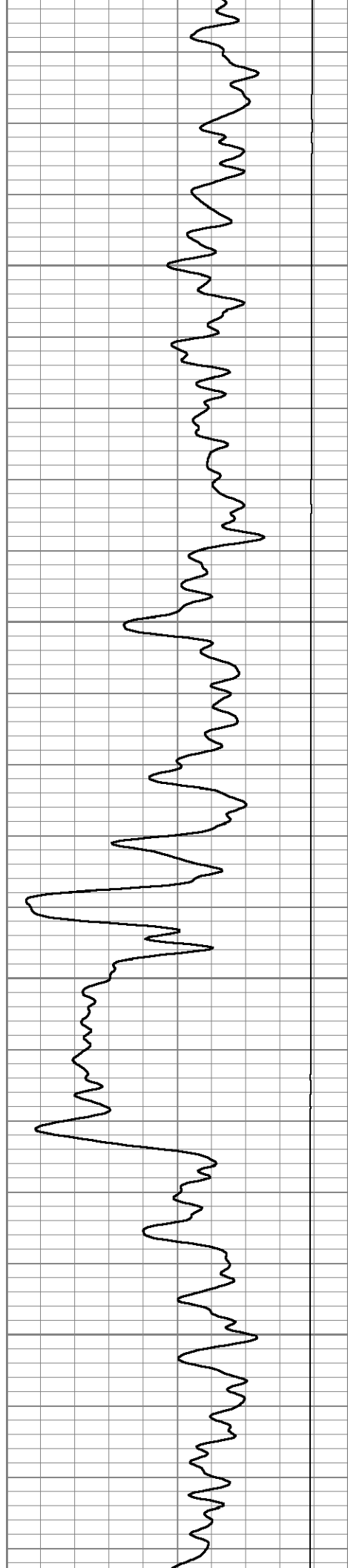
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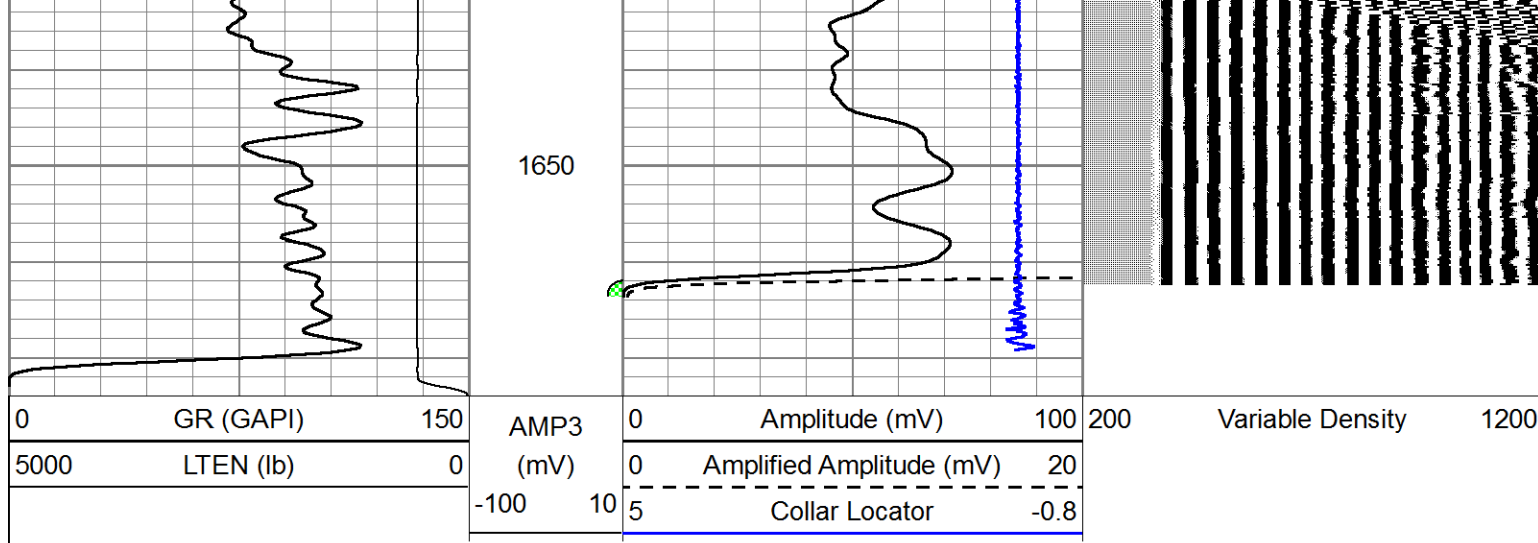
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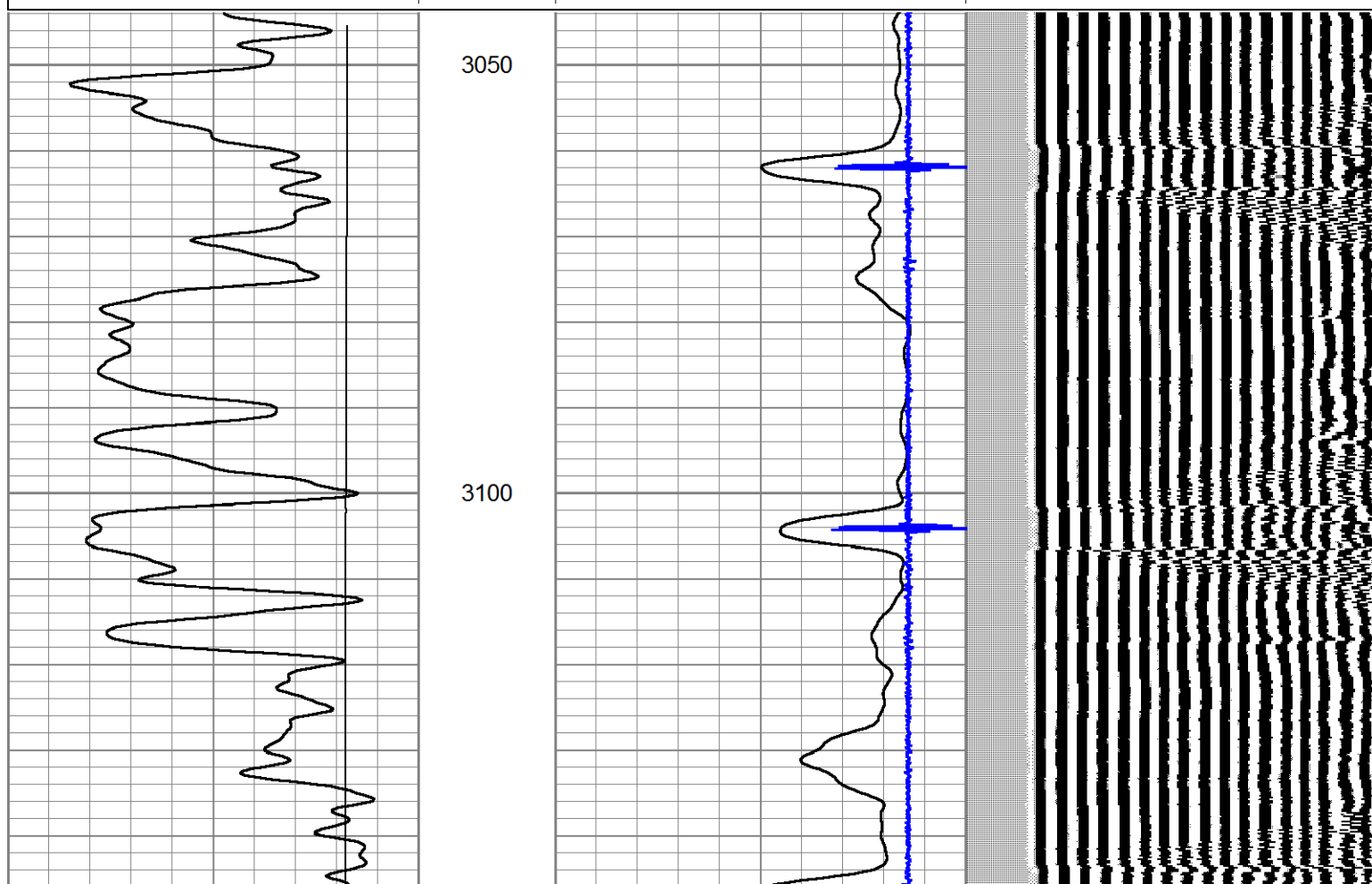
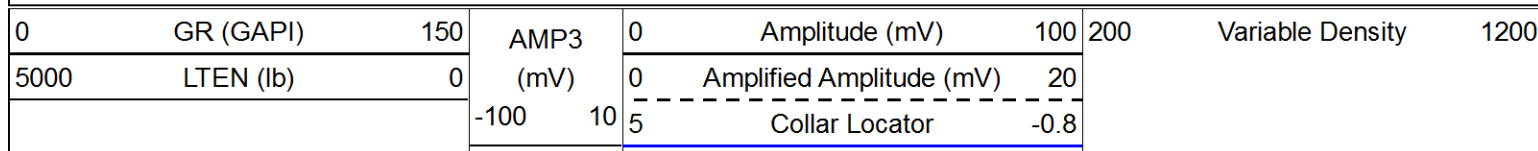


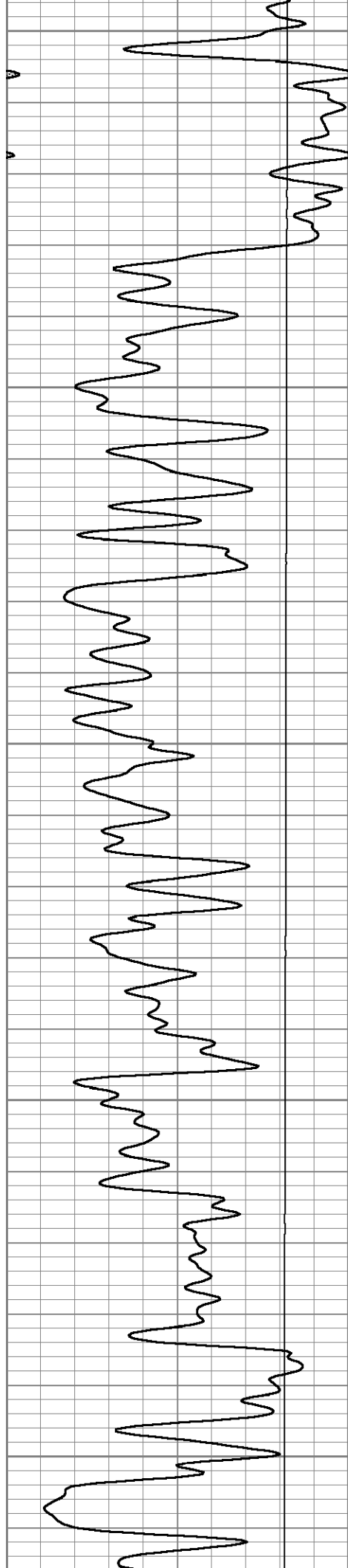


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Main Pass

Database File: cobalt_vonlehe_a#1-27.db
 Dataset Pathname: grcbl/pass4.1
 Presentation Format: cbldig
 Dataset Creation: Thu Jul 25 09:08:13 2013 by Calc SCH 111116
 Charted by: Depth in Feet scaled 1:240





3150

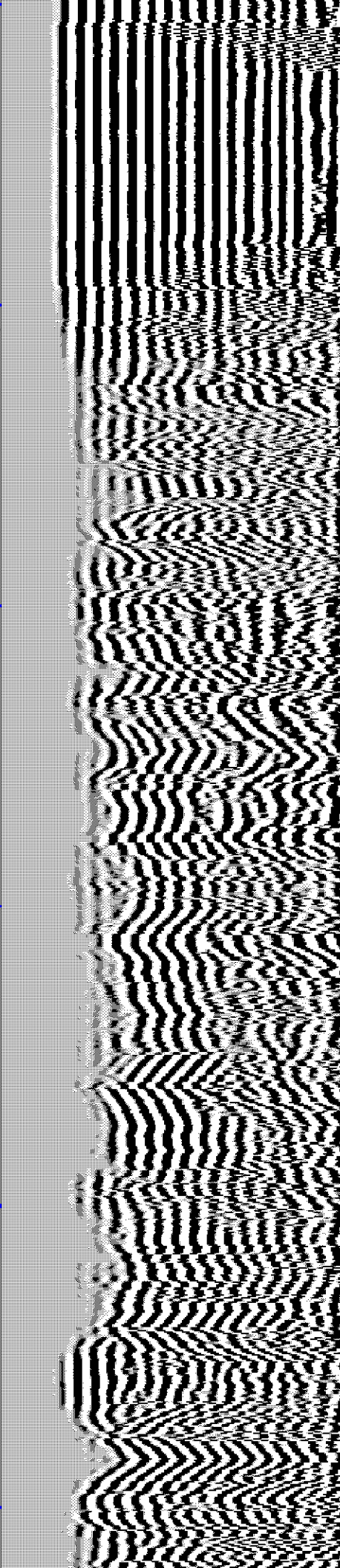
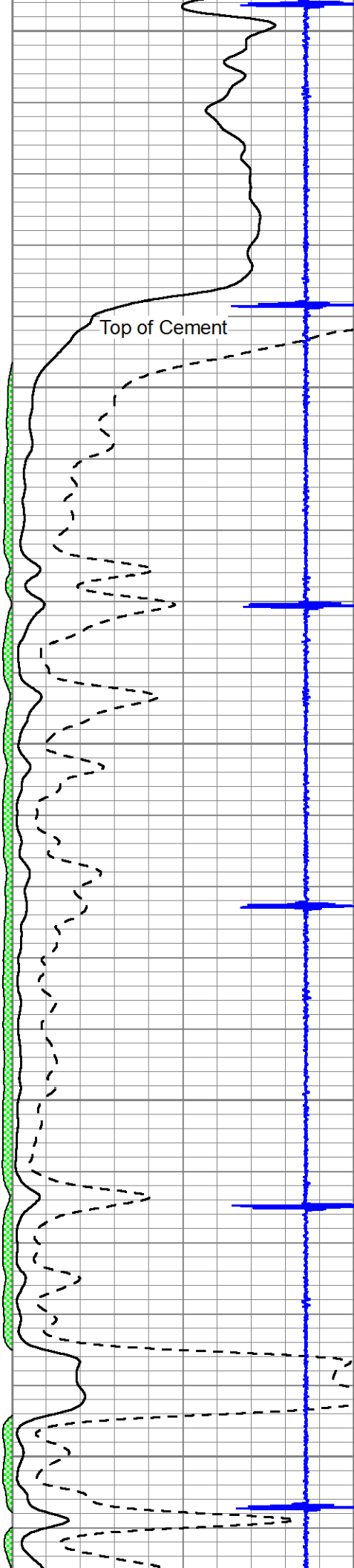
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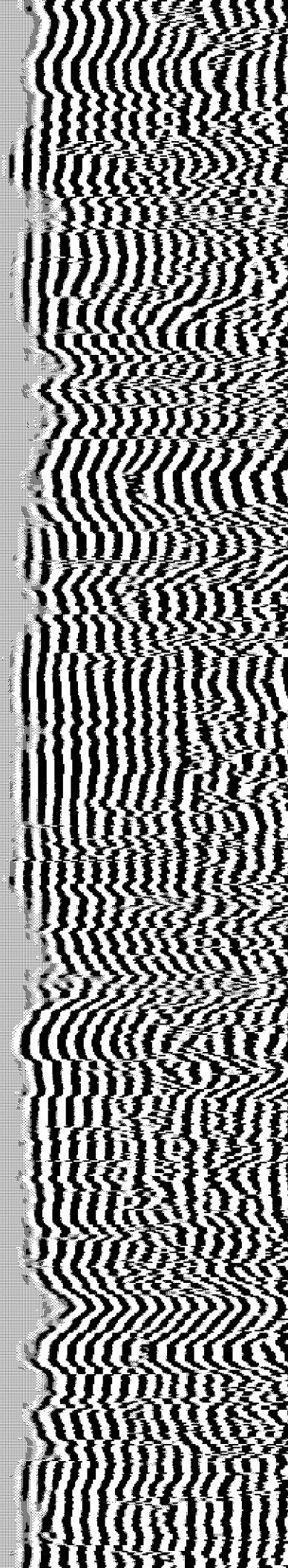
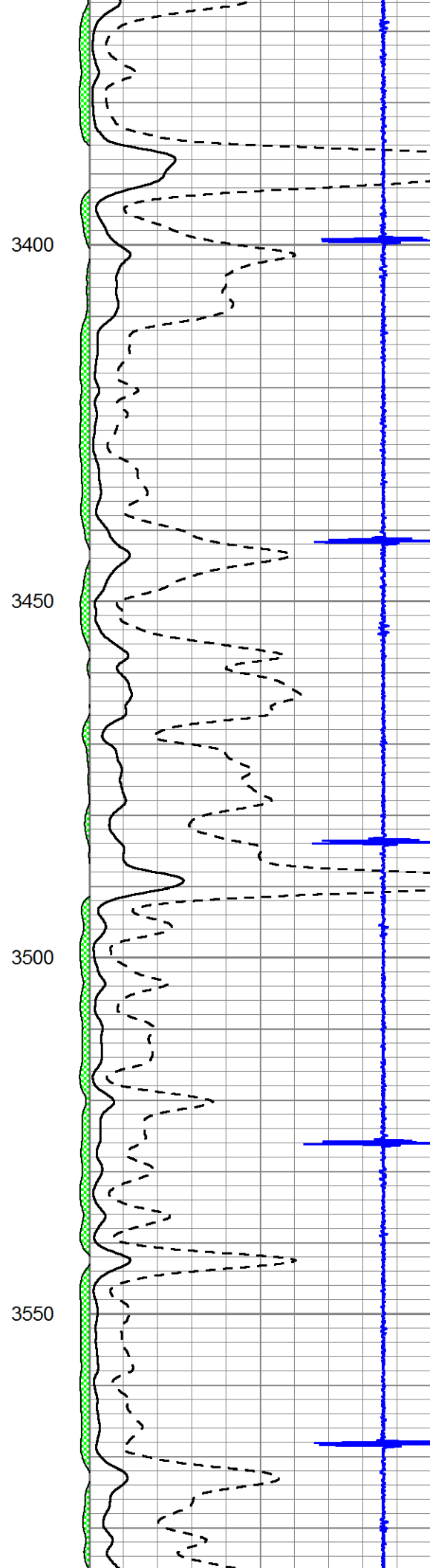
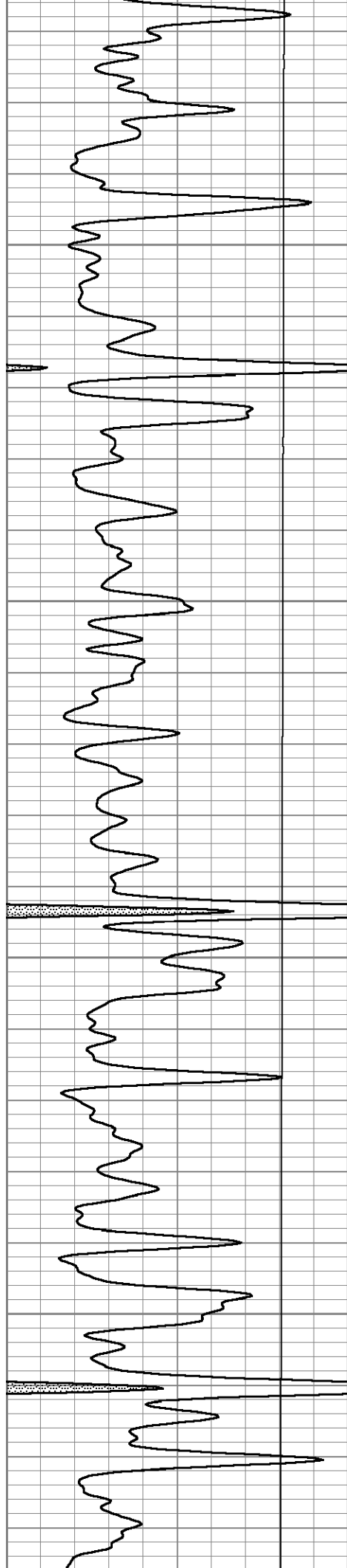
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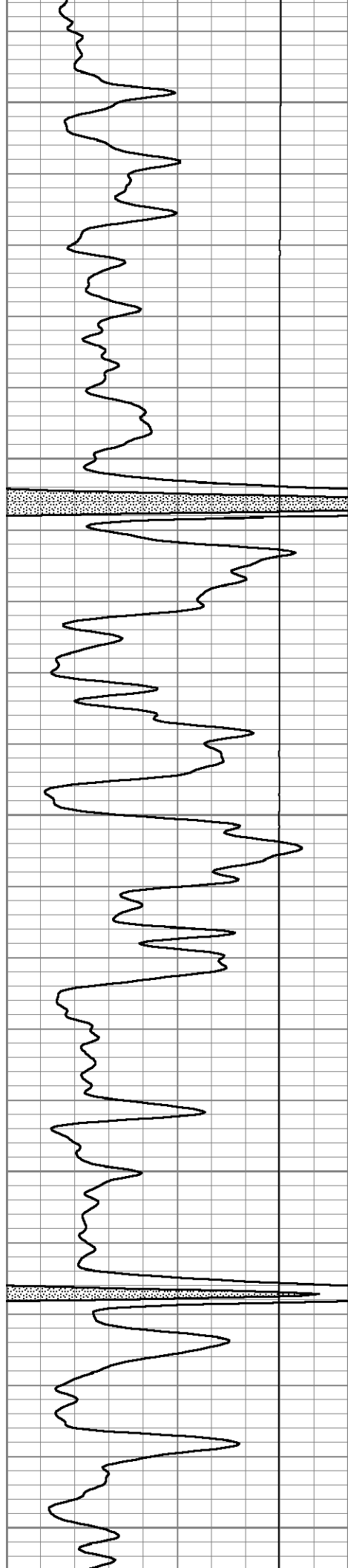
3300

3350

Top of Cement







3600

3650

3700

3750

3800

