



Sonic Cement Bond Log

Pioneer Energy Services

API No.

15-109-21198-00-00

Company Shakespeare Oil Company, Inc.

Well Otley No. 4-16

Field Wildcat

County Logan State Kansas

Location

1599' FNL & 1852' FWL

Other Services
Perforate

Sec: 16 Twp: 14S Rge: 32W

Permanent Datum Ground Level Elevation 2808

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 2818
D.F. 2816
G.L. 2808

Run Number

One

Date Survey

8/19/2013

Date Cementing

8/5/2013

Type Cementing Operation

Primary

Depth Driller

4530

Depth Logger

4480

Logged Interval

4478 to 3050

Casing Driller

5.5 @ T.D.

Float Collar -- D.V. Tool

2326

Squeeze Depth

||||

Amount & Type Cement

||||

Amount & Type Admix

||||

Type Fluid In Hole

Water

Fluid Level

210

Salinity PPM CL

||||

Weight lb/gal -- Vis.

||||

Approx. Logged Cement Top

3250

Calculated Cement Top

||||

Max. Hole Temperature

115

Tool No.

D-1

Spacing Recorded

3-5

Equipment -- Location

72 Hays

Recorded By

K. Ladrigan

Witnessed By

Tom Larson

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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, Inc. 785.625.3858

Oakley, KS., South to Jayhawk Road, West to Radio Tower
Continue West on Lease Road to End of Field
North and East Into.



Port Collar @ 2326

Database File:

shake_ottley4-16_cbl.db

Dataset Pathname:

grcbl/pass4

Presentation Format:

cbl dig

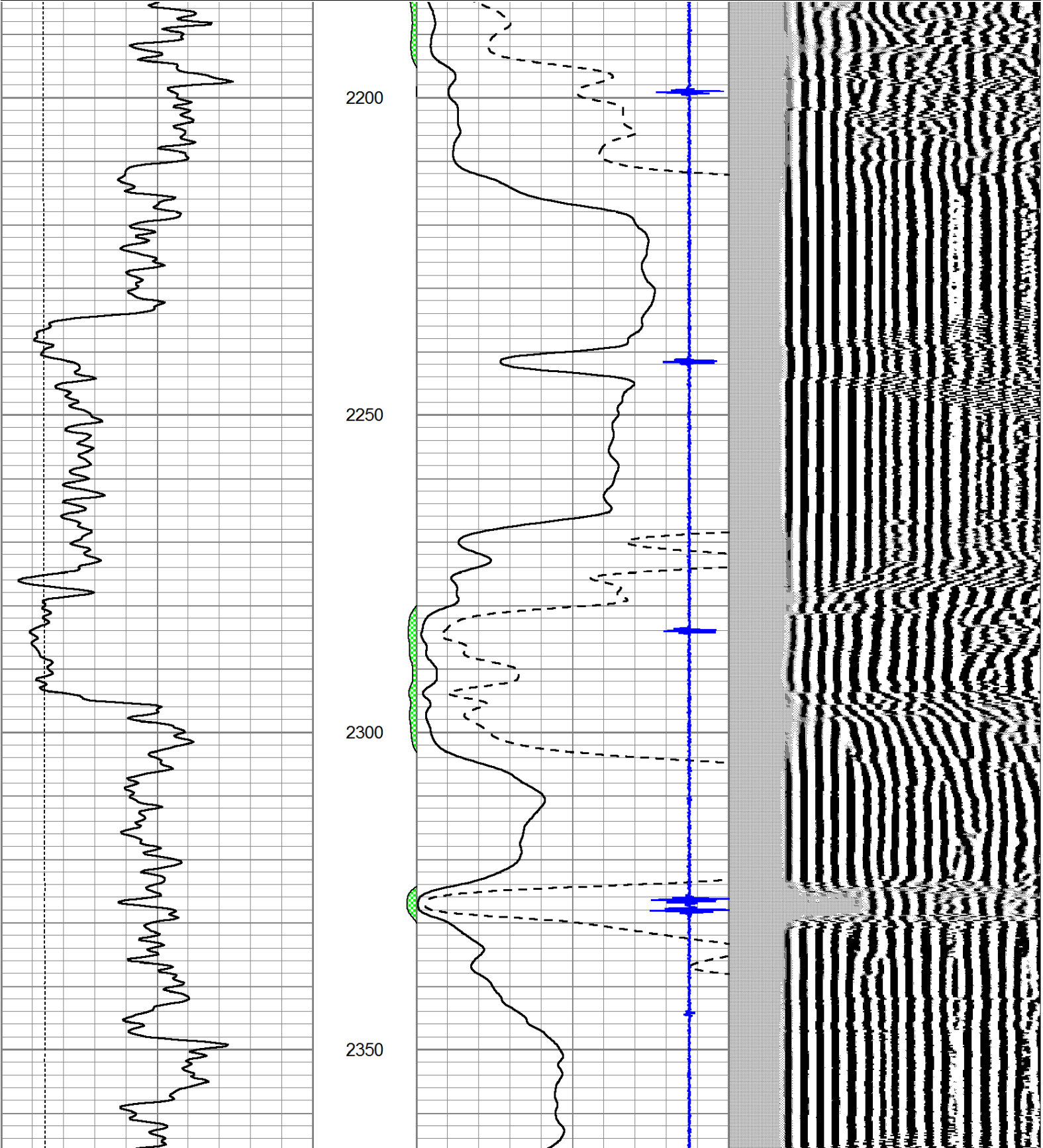
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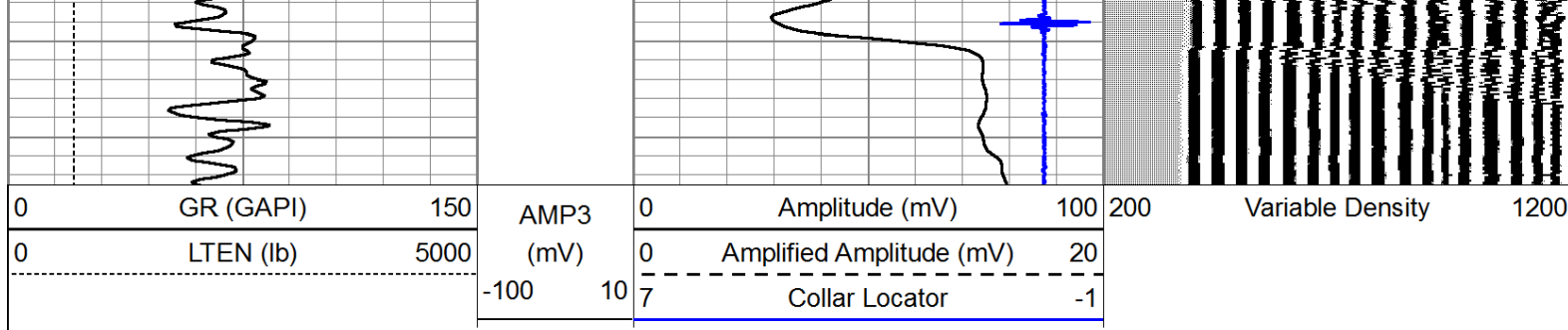
Mon Aug 19 09:41:12 2013 by Log SCH 111116

Charted by:

Depth in Feet scaled 1:240

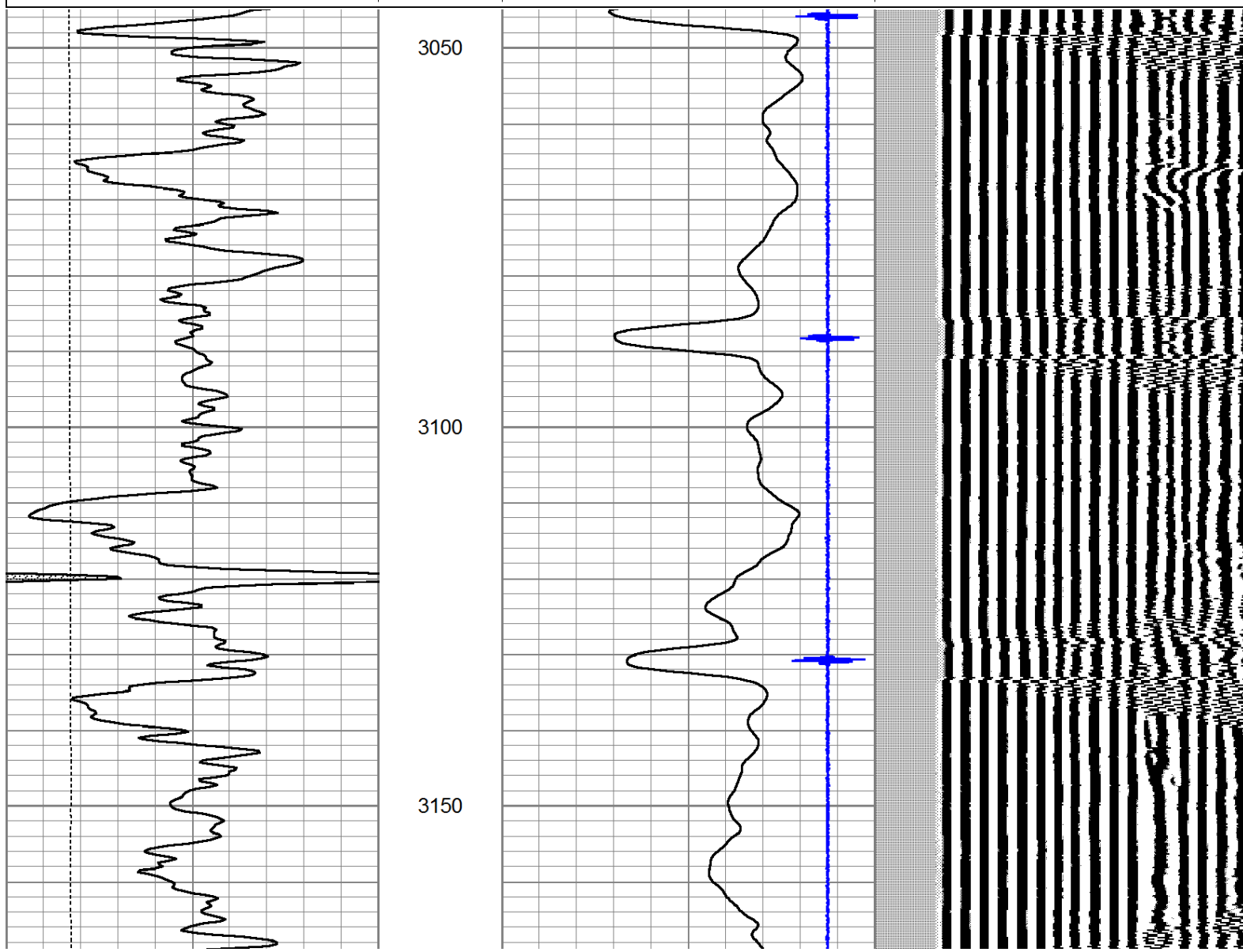
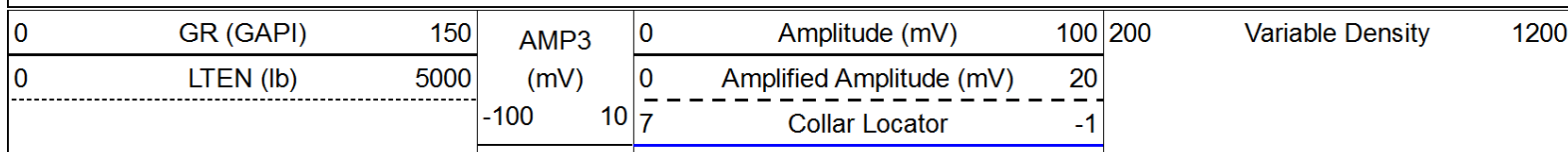
0	GR (GAPI)	150	AMP3	0	Amplitude (mV)	100	200	Variable Density	1200
0	LTEN (lb)	5000	(mV)	0	Amplified Amplitude (mV)	20			
			-100	10	7	Collar Locator	-1		

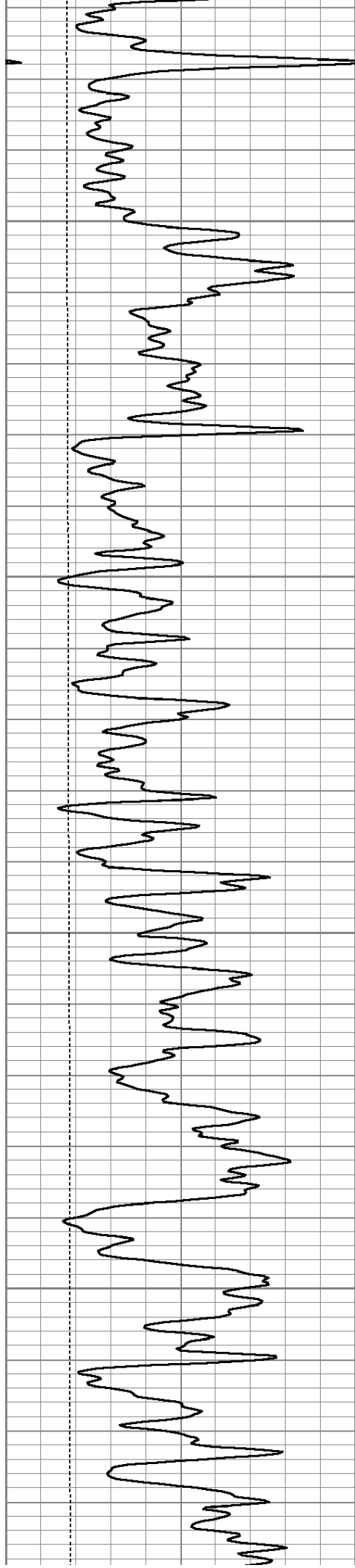




Main Pass

Database File: shake_ottley4-16_cbl.db
 Dataset Pathname: grcbl/pass3.1
 Presentation Format: cbl dig
 Dataset Creation: Mon Aug 19 09:40:13 2013
 Charted by: Depth in Feet scaled 1:240





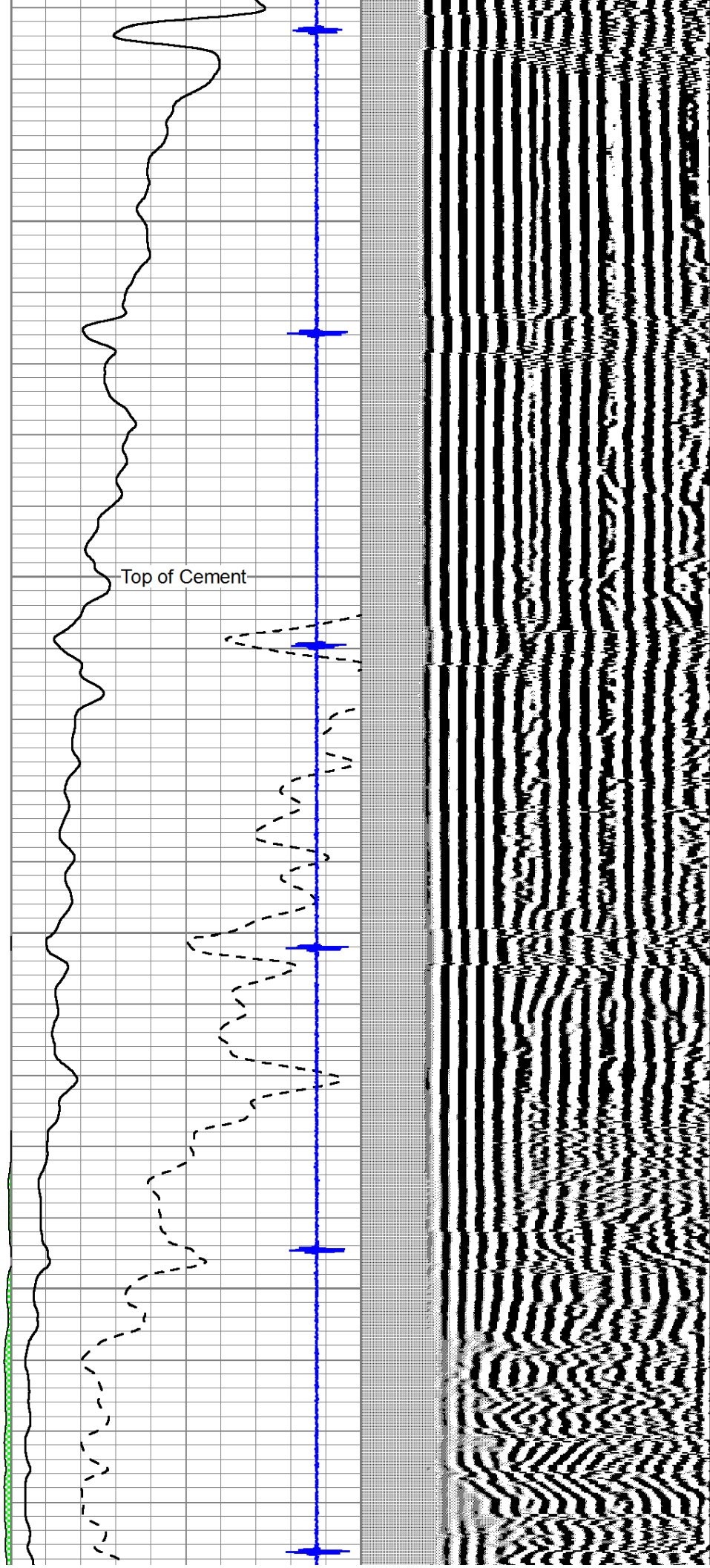
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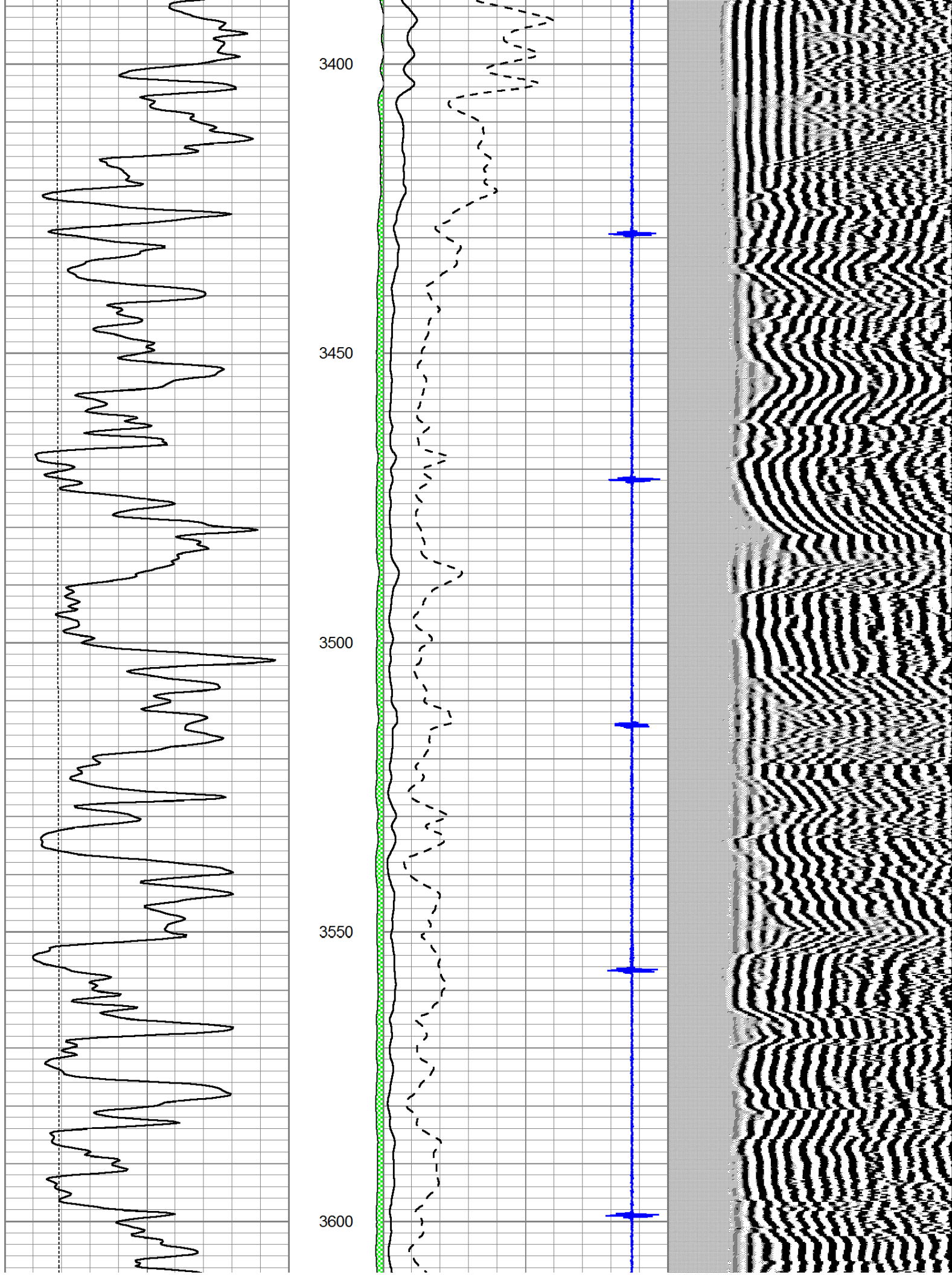
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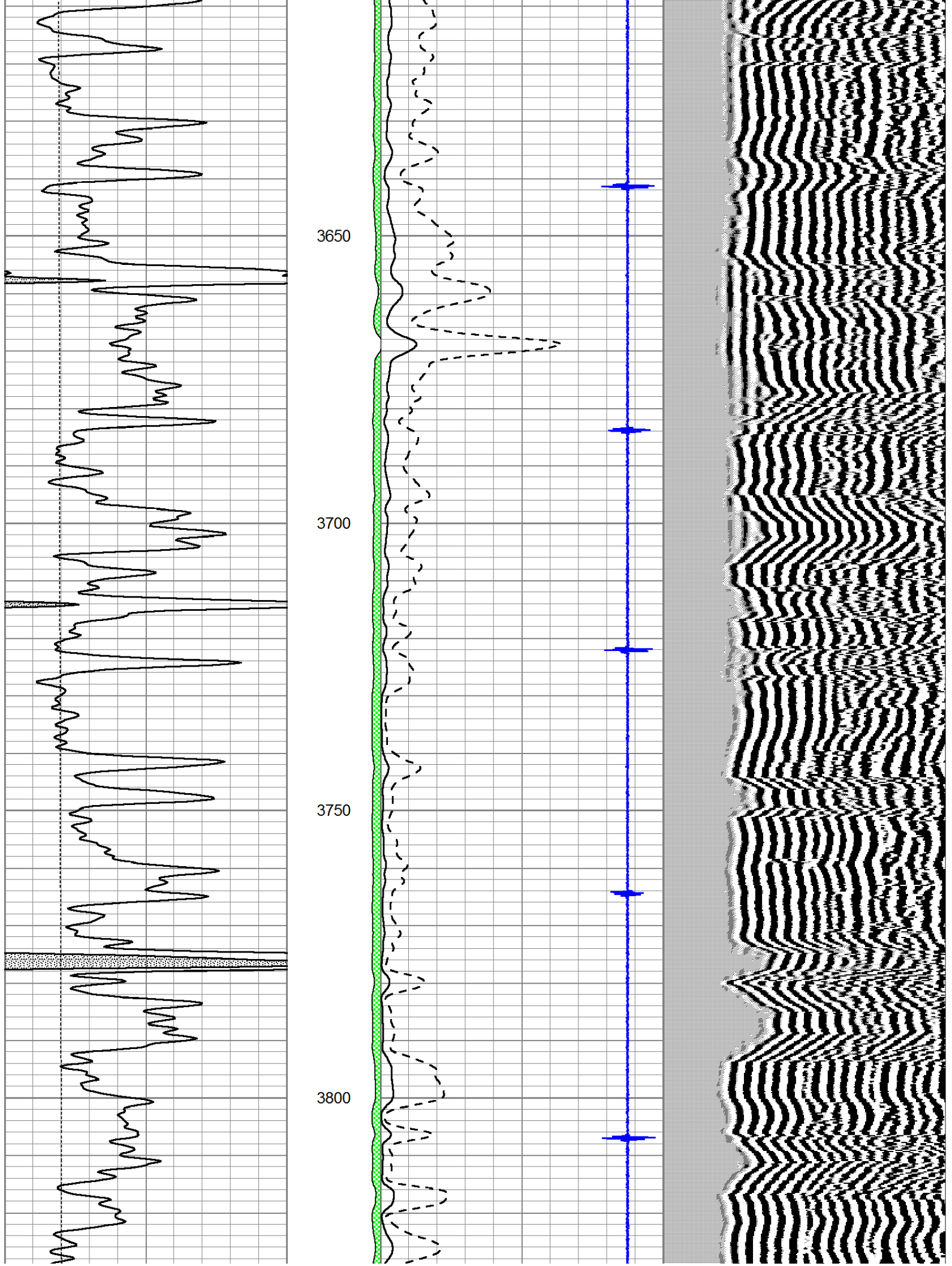
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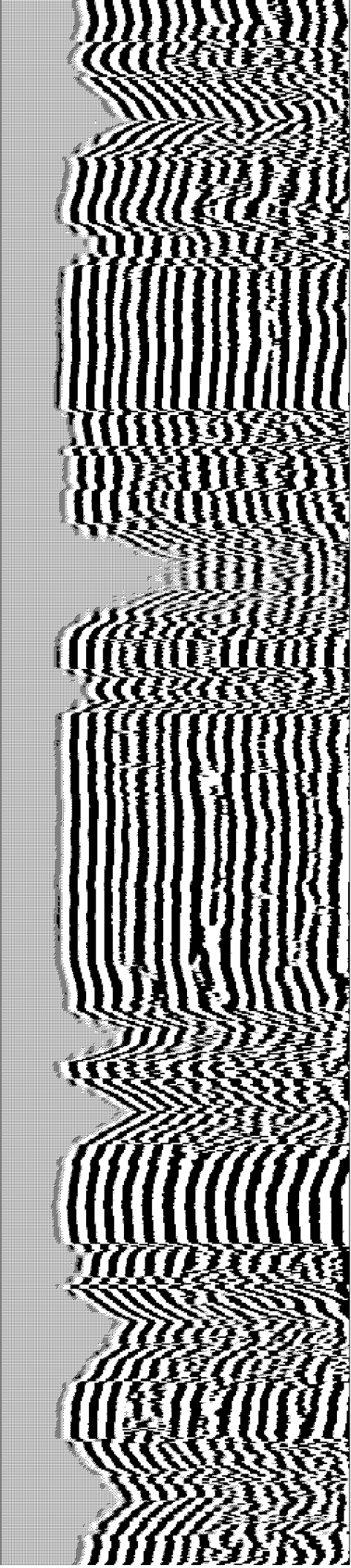
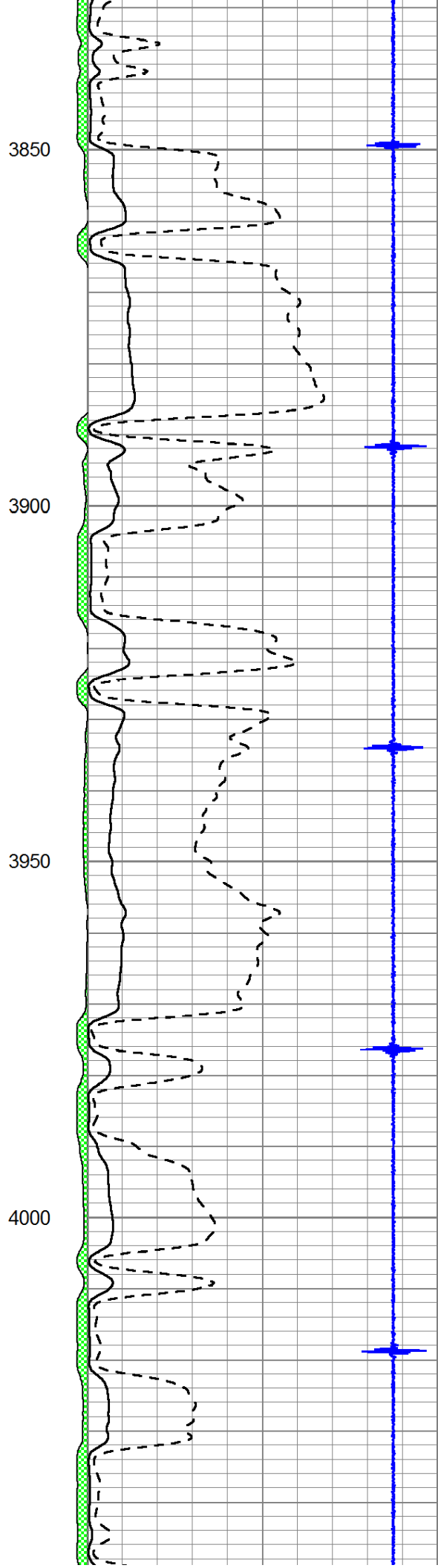
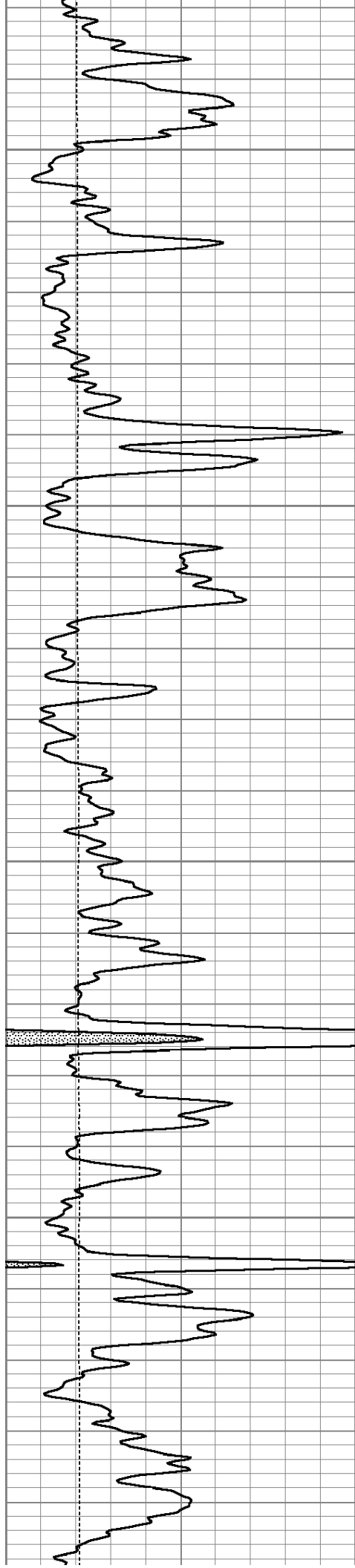
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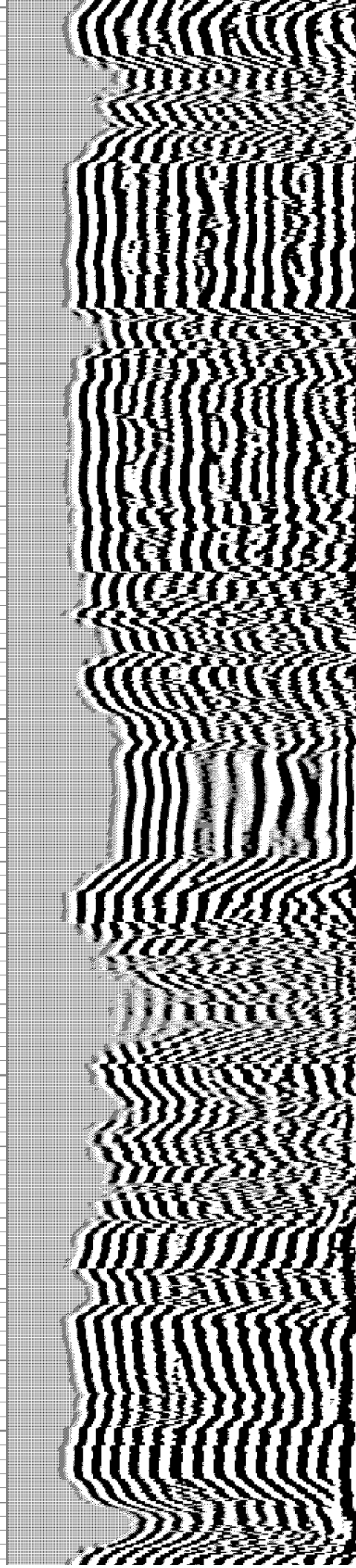
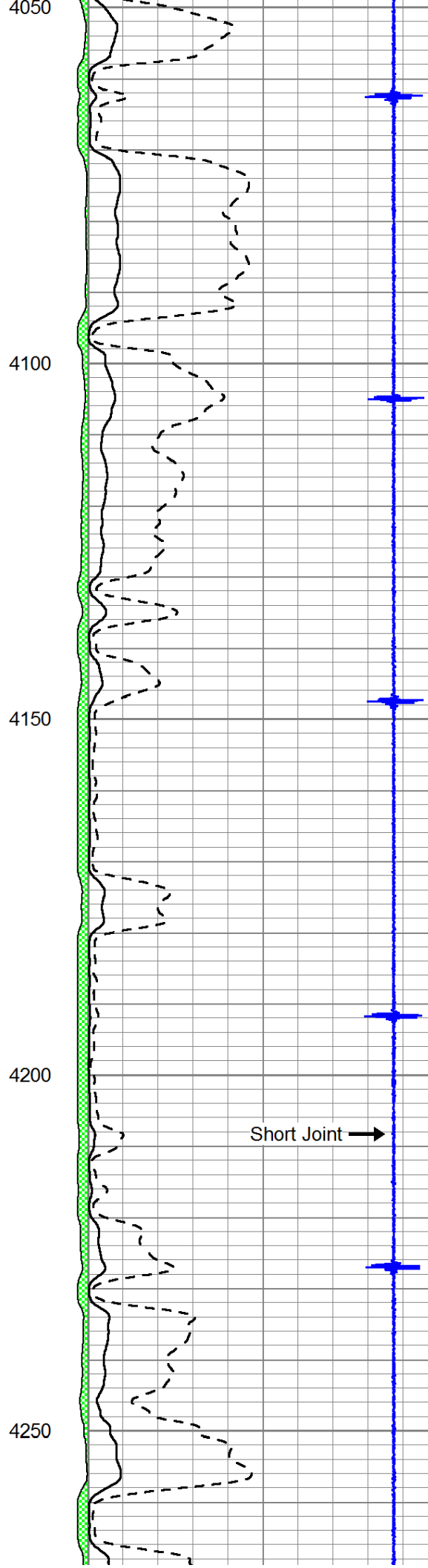
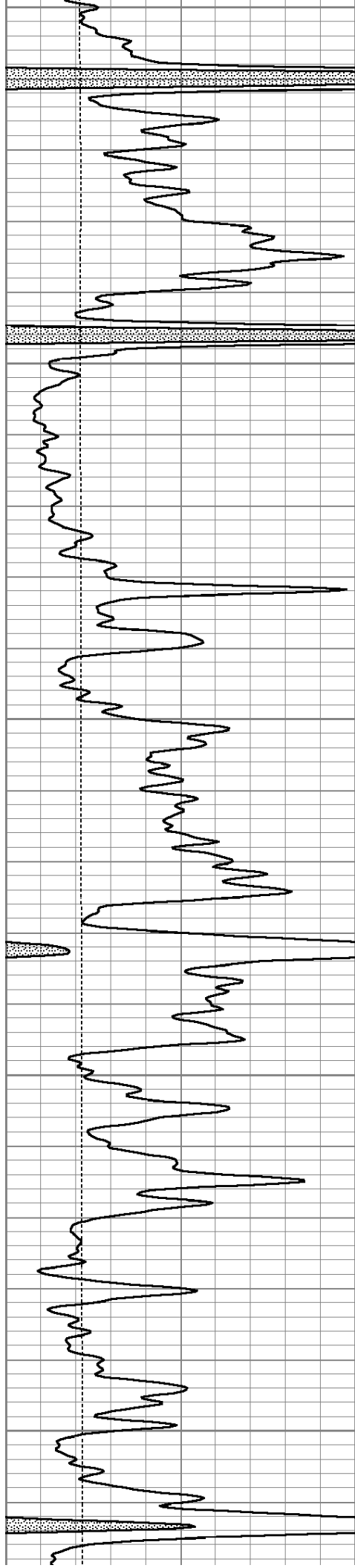
Top of Cement

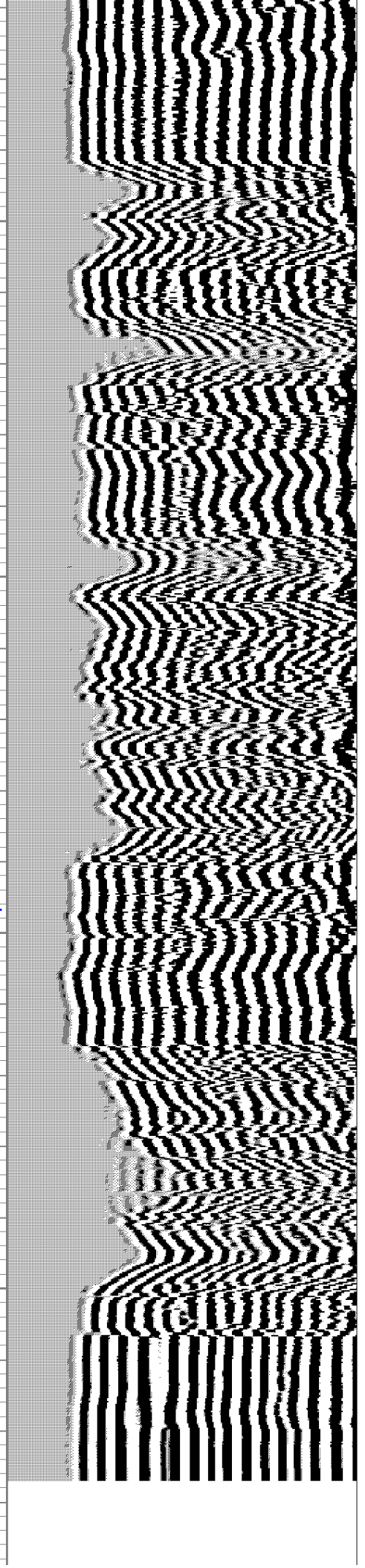
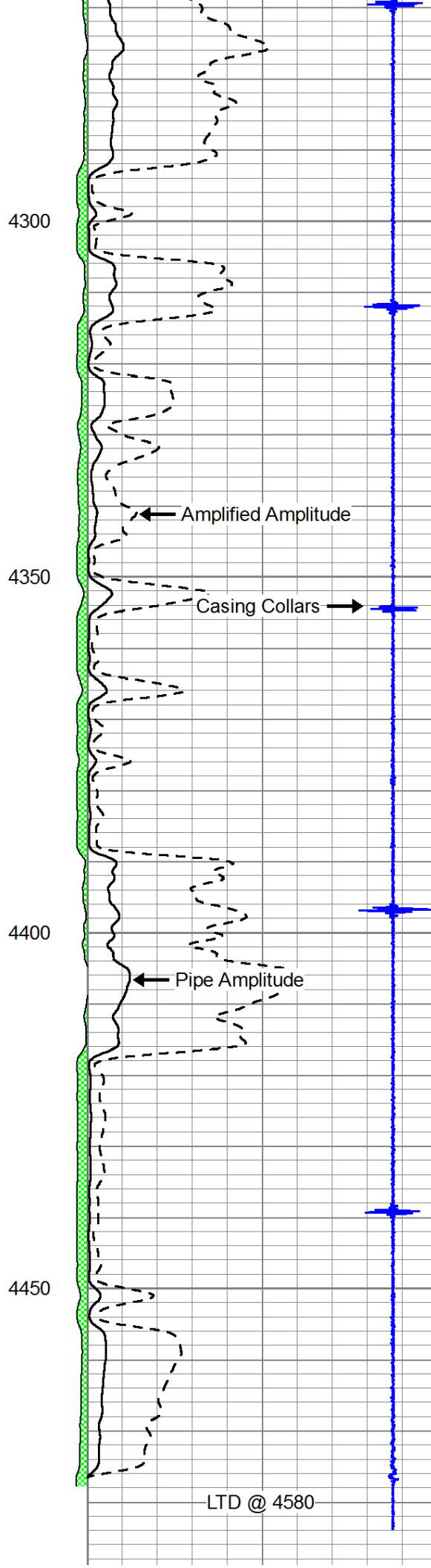
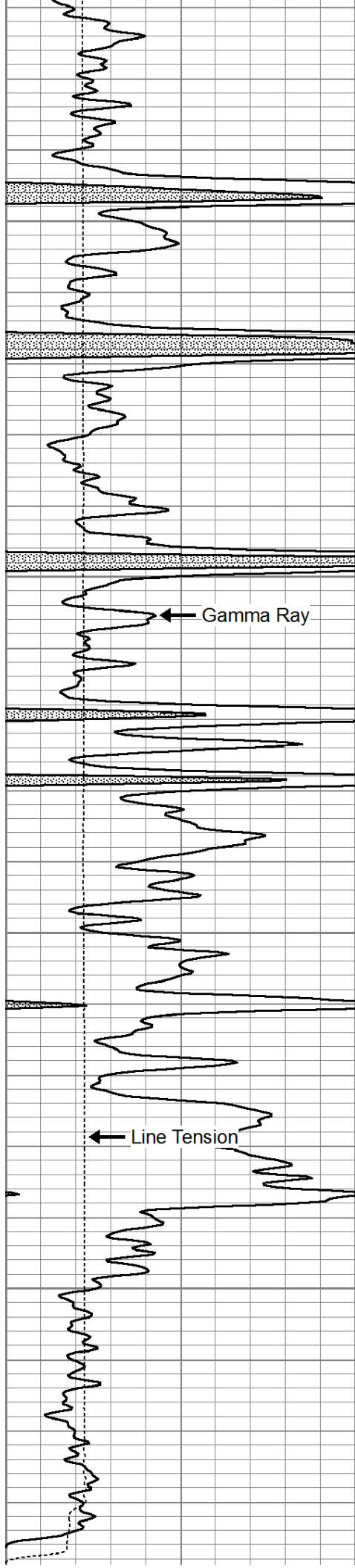












0	GR (GAPI)	150	AMP3	0	Amplitude (mV)	100	200	Variable Density	1200
0	LTEN (lb)	5000	(mV)	0	Amplified Amplitude (mV)	20			
			-100 10	7	Collar Locator	-1			



Pioneer Energy Services

Repeat Section

Database File: shake_ottley4-16_cbl.db
 Dataset Pathname: grcbl/pass2
 Presentation Format: cbl dig
 Dataset Creation: Mon Aug 19 09:06:39 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
0	LTEN (lb)	5000	(mV)	0	Amplified Amplitude (mV)	20			
			-100 10	7	Collar Locator	-1			

