



PIONEER

Pioneer Energy Services

**Sonic Cement
Bond Log**

API No.

15-159-22739-00-00

Company **American Warrior**
Well **Buckley - Doll No. 2-18 Restake**
Field **Chase-Silica**
County **Rice** State **Kansas**

Location

**SE-SE-SW-NW
2635 FNL & 1187 FWL**

Sec: **18** Twp: **19 S** Rge: **19 W**

Other Services

**MAST
Trailer**

Elevation

**K.B. 1748
D.F. 1747
G.L. 1740**

Permanent Datum **Ground level** Elevation **1740**
Log Measured From **Kelly Bushing** 8' Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Run Number

One

Date Survey

6/11/2013

Date Cementing

5/23/2013

Type Cementing Operation

Primary

Depth Driller

3400

Depth Logger

3353

Logged Interval

3353 to 2100

Casing Driller

5.5" @ T.D.

Float Collar -- D.V. Tool

////

Squeeze Depth

////

Amount & Type Cement

////

Amount & Type Admix

////

Type Fluid In Hole

Water

Fluid Level

Full

Salinity PPM CL

////

Weight lb/gal -- Vis.

////

Approx. Logged Cement Top

2460

Calculated Cement Top

////

Max. Hole Temperature

110

Tool No.

RBT 4-4

Spacing Recorded

3-5

Equipment -- Location

14

Recorded By

A Dreiling

Witnessed By

Mr. Kevin Wiles

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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

Chase Ks,
2 N, 1 W,
5/8 N , E Into



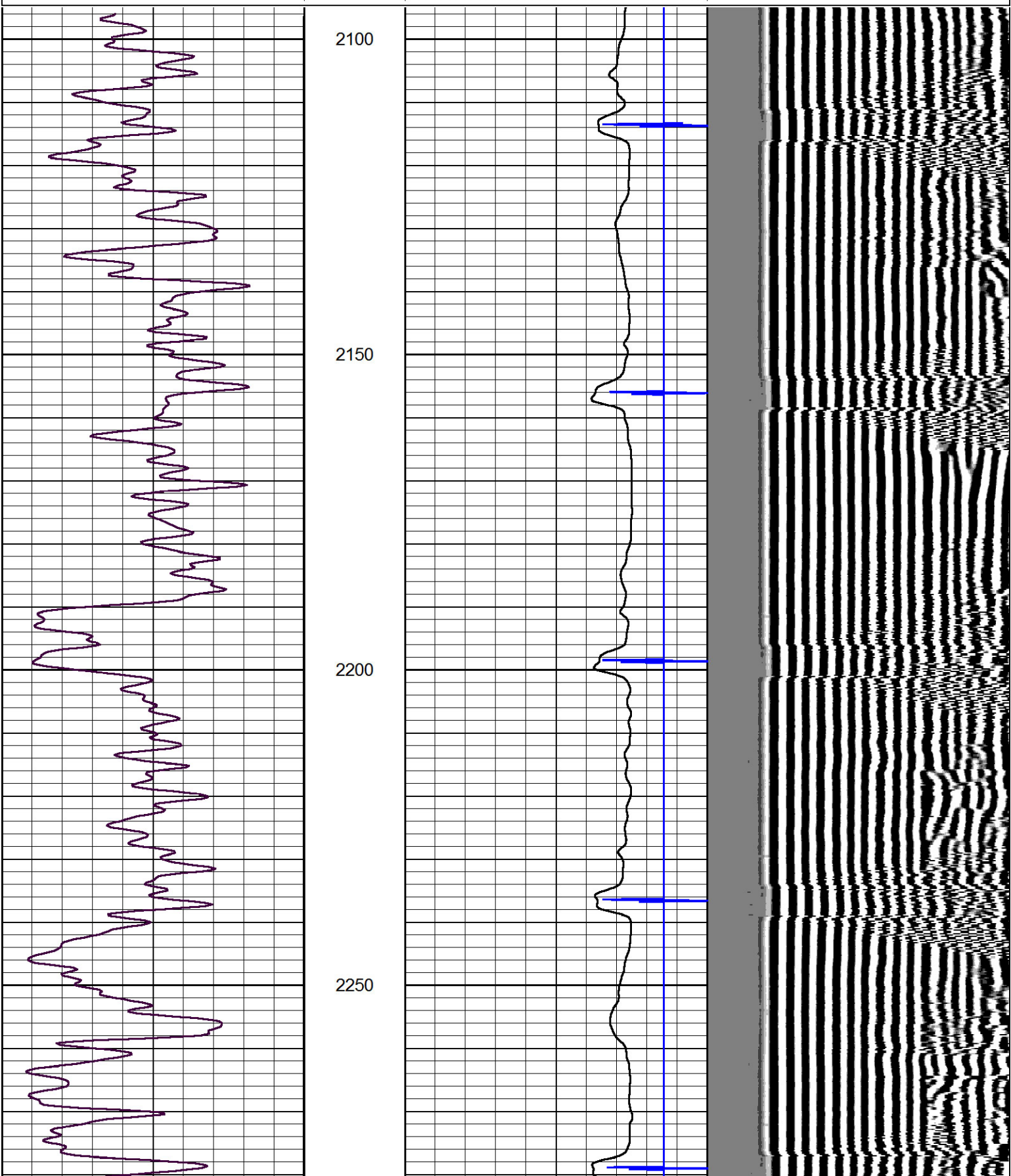
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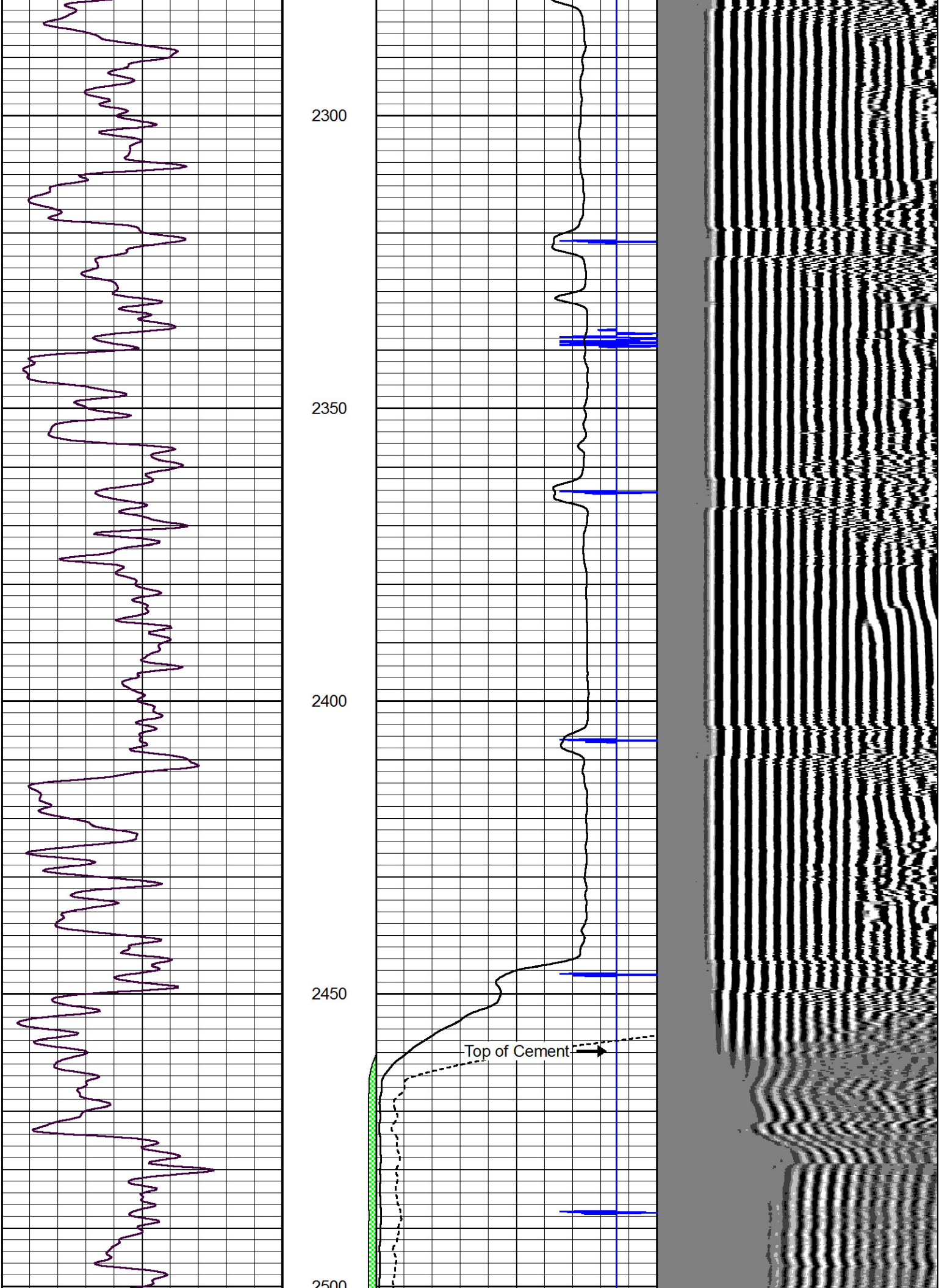
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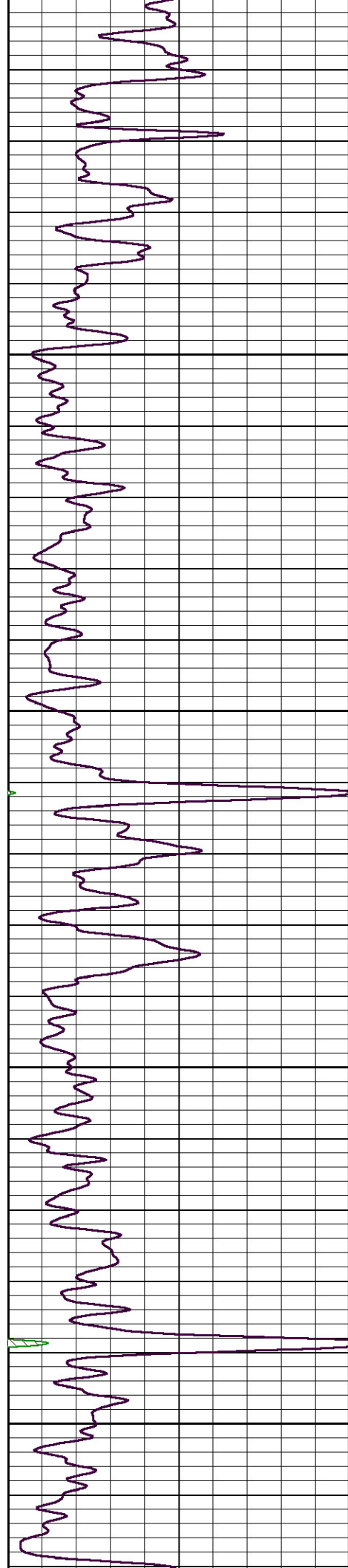
Main Pass

Database File: warrior_buckley_doll_2-18.db
Dataset Pathname: grcbl/pass3.1
Presentation Format: cbldr
Dataset Creation: Tue Jun 11 14:03:58 2013 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

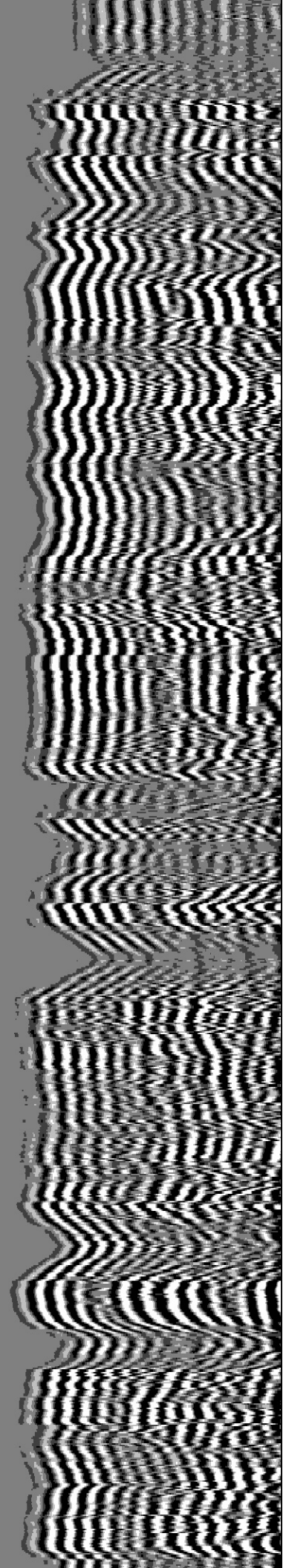
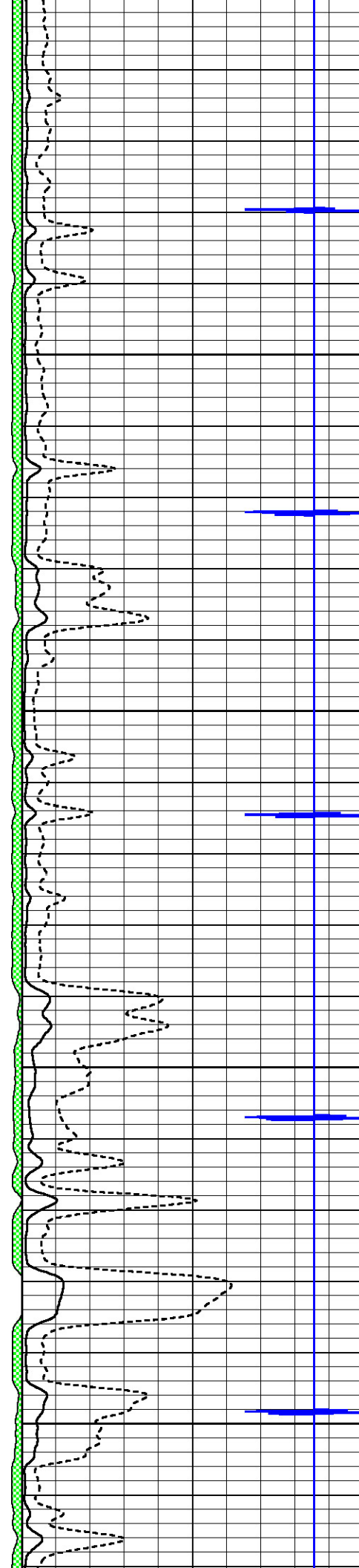
0	Gamma Ray	150	amp3ft	3	Casing Collars	-0.5	200	wvf5ft	1200
2000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			

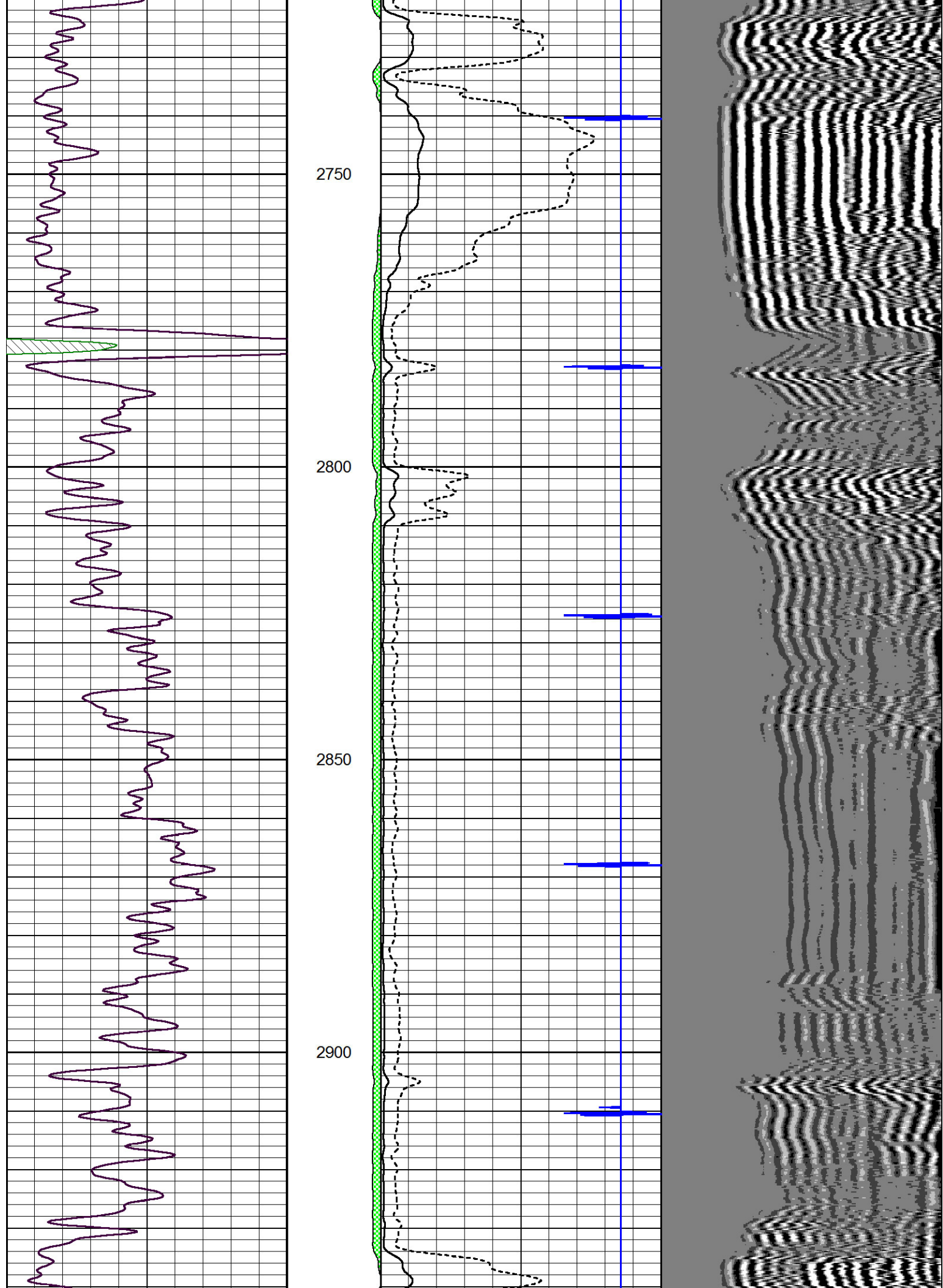


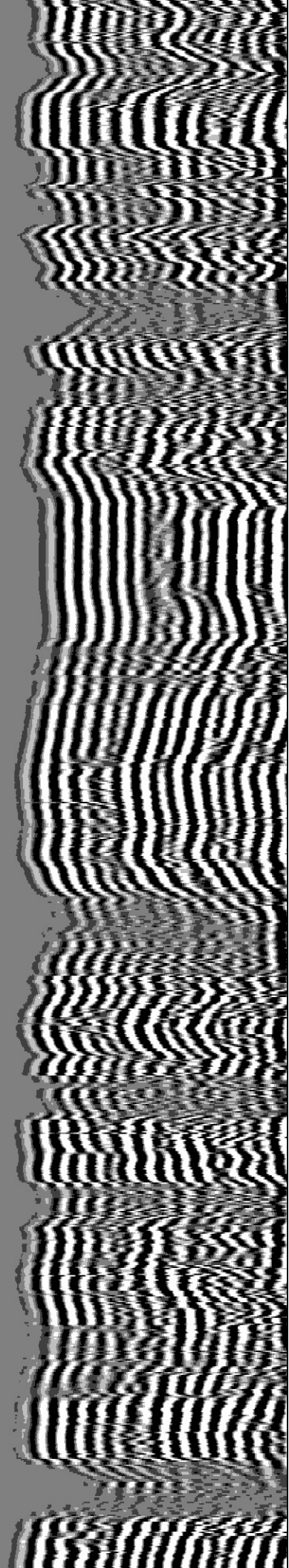
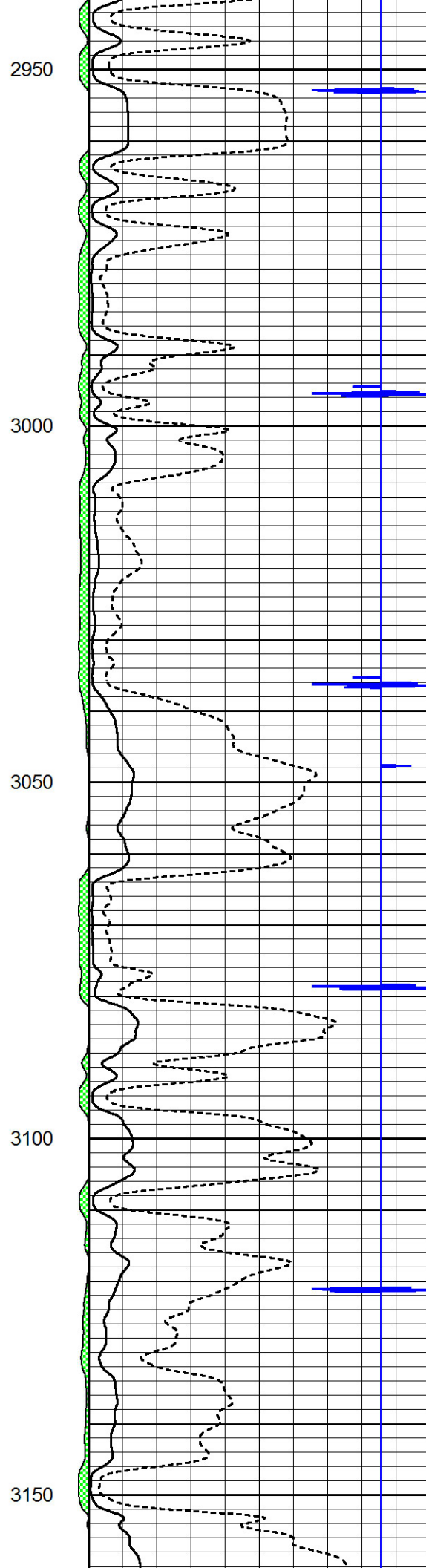
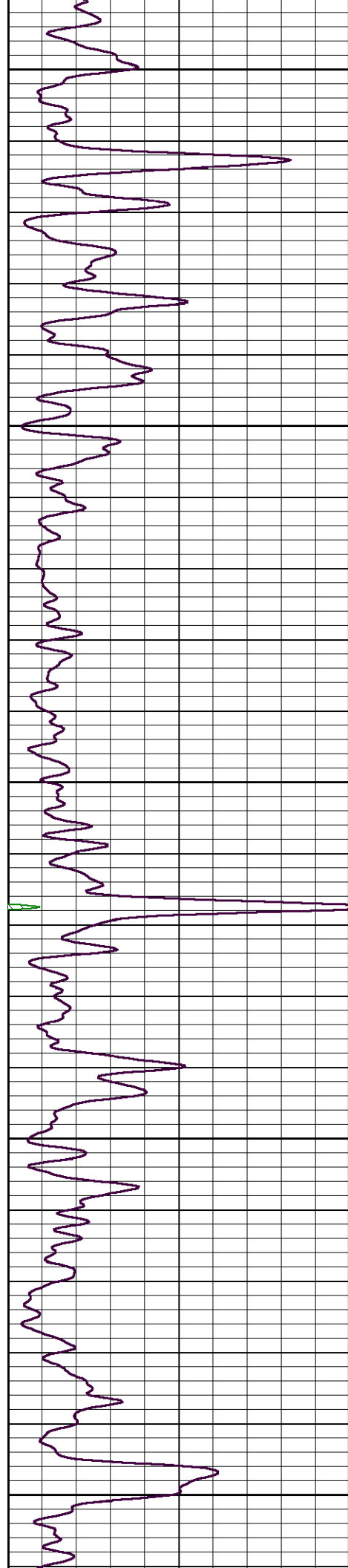


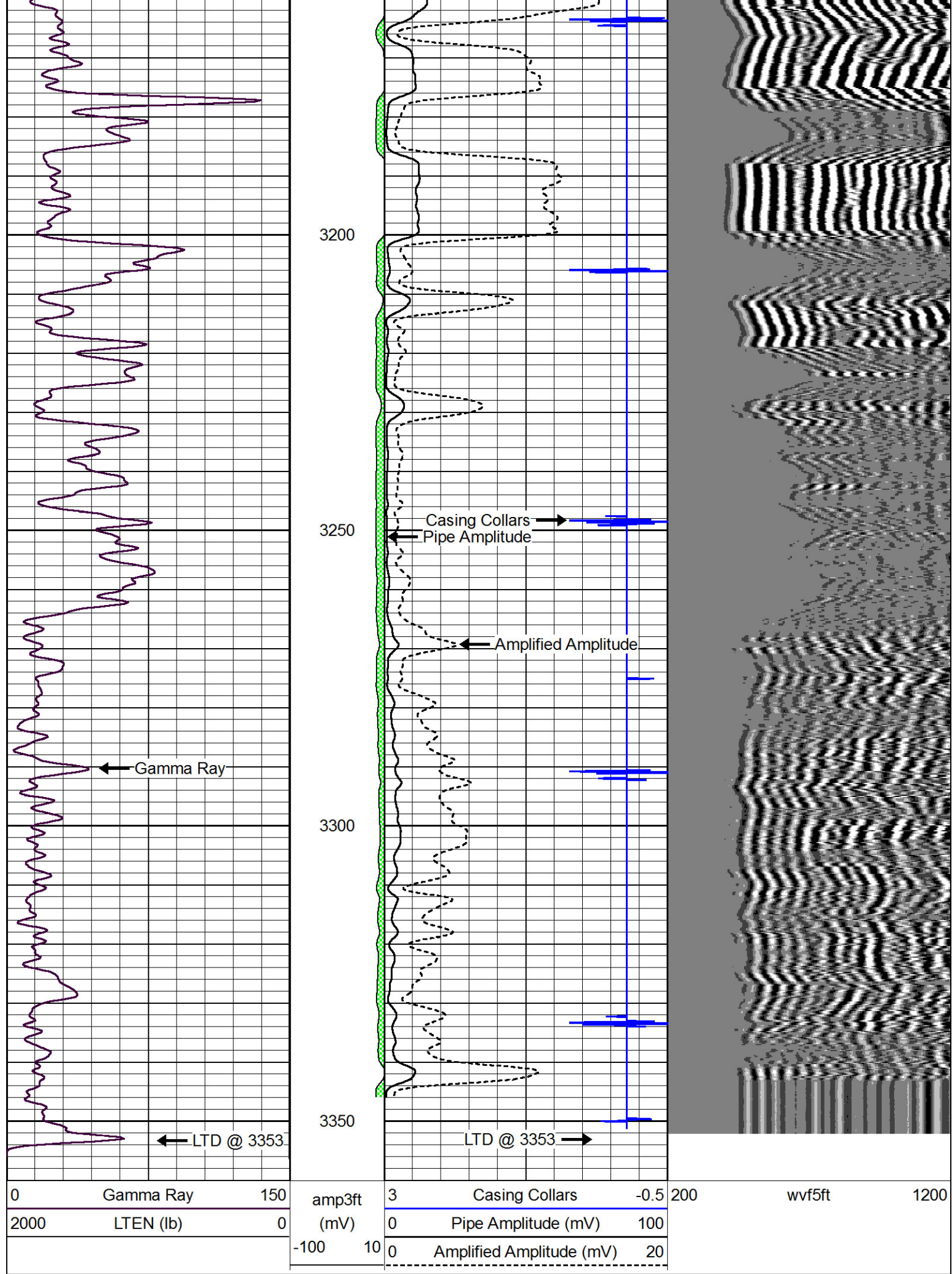


2500
2550
2600
2650
2700









Repeat Section

Database File: warrior_buckley_doll_2-18.db
 Dataset Pathname: grcbl/pass2.1
 Presentation Format: cbldr
 Dataset Creation: Tue Jun 11 14:01:14 2013 by Calc 7.0 B1
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	3	Casing Collars	-0.5	200	wvf5ft	1200
2000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			

