



**Sonic Cement
Bond Log**

Pioneer Energy Services

API No.

15-015-24009-00-00

Company **Tri Powers Resources inc.**

Well **Bluestem NO.12-B**

Field **Joseph Southeast**

County **Butler** State **Kansas**

Location

1650' FSL & 3430' FEL

Other Services

Perf @ 2550-77

Sec: **20** Twp: **24 S** Rge: **5 E**

Elevation

K.B. 1427
D.F. 1426
G.L. 1420

Permanent Datum **Ground level** Elevation **1433**

Log Measured From **Kelly Bushing** 7' Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Run Number

One

Date Survey

1/28/2014

Date Cementing

12/22/2013

Type Cementing Operation

Primary

Depth Driller

2668

Depth Logger

2653

Logged Interval

2653 to 1000

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

1360

Calculated Cement Top

////

Max. Hole Temperature

105

Tool No.

RBT 4-Shop

Spacing Recorded

3-5

Equipment -- Location

12 A Drilling Hays

Recorded By

Mr. Gary Reed

Witnessed By

Mr. Gary Reed

<<< Fold Here >>>

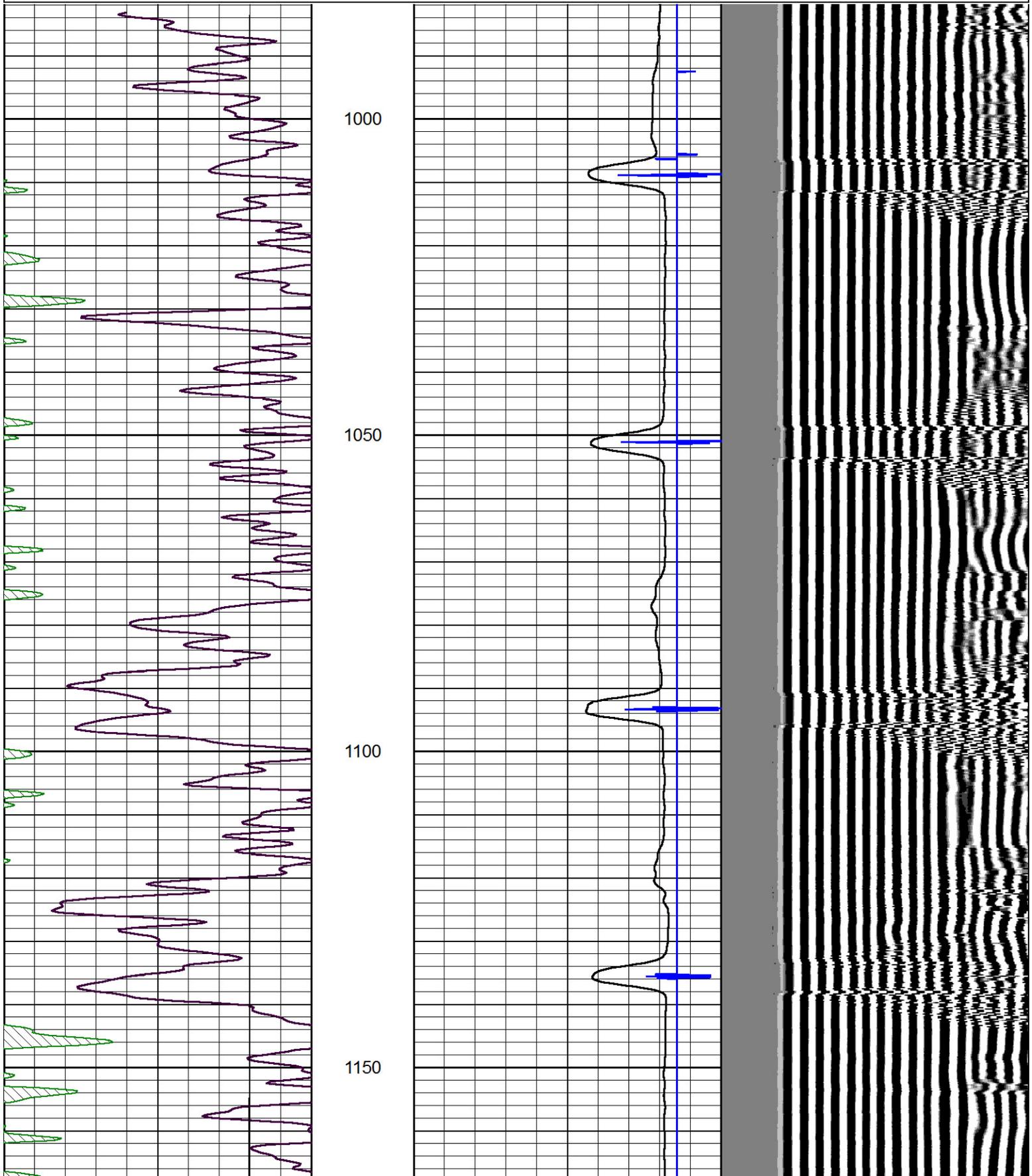
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

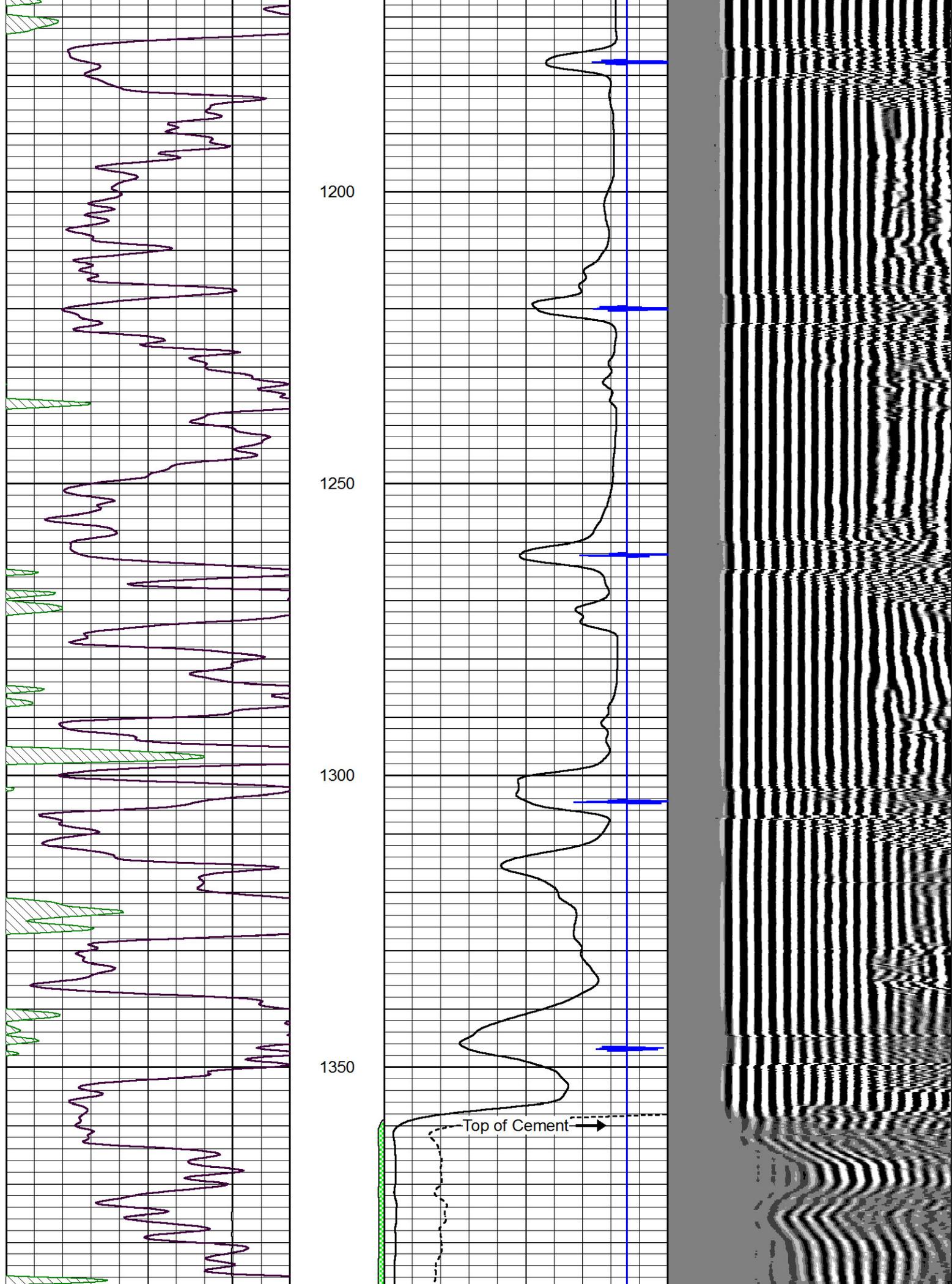
Comments

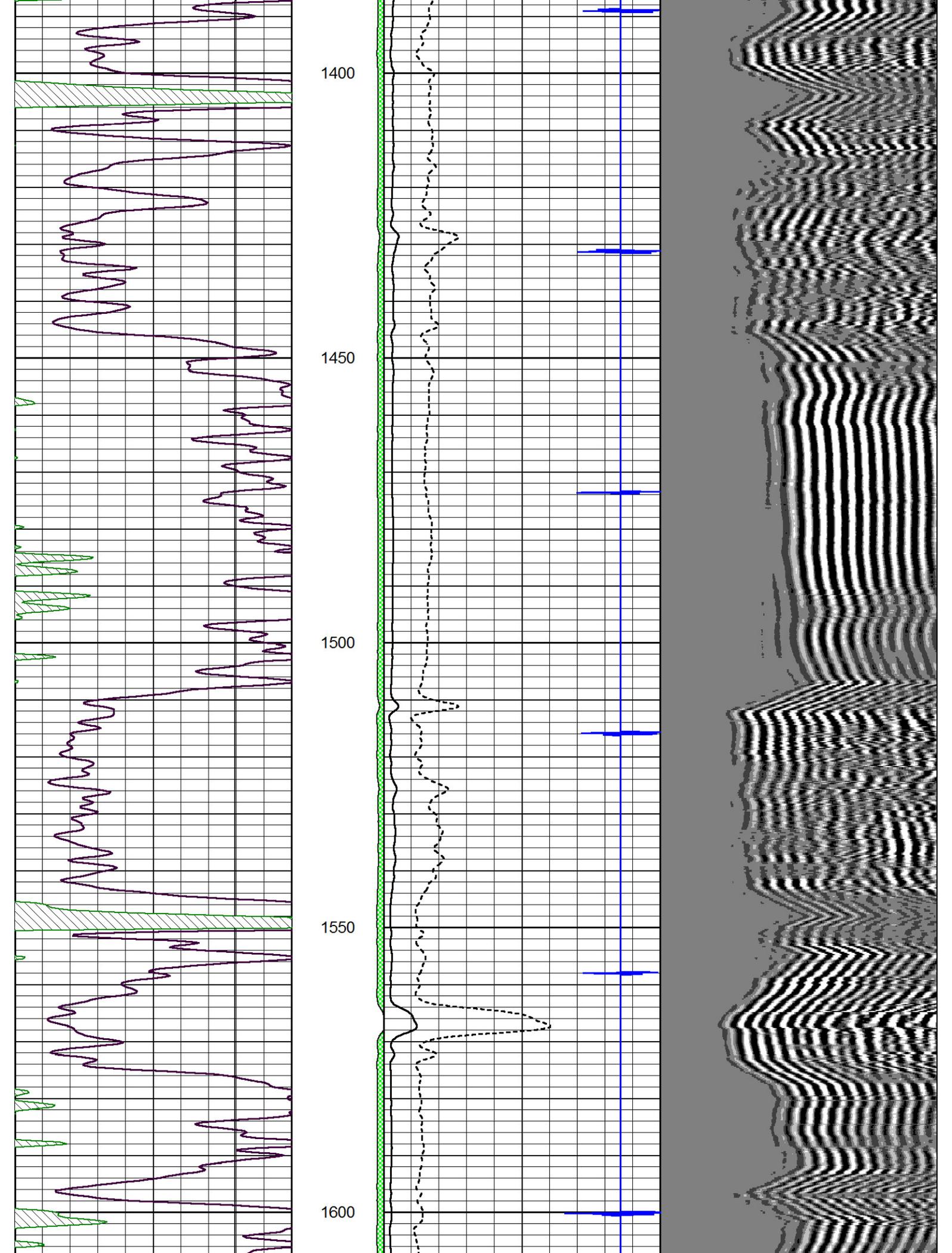
Thank you for using Pioneer Energy Services
785.625.3858
Newton Ks.,
E on First Street to HWY.77,
S to 75 Rd.,3 W,
N Into @ cattle Guard

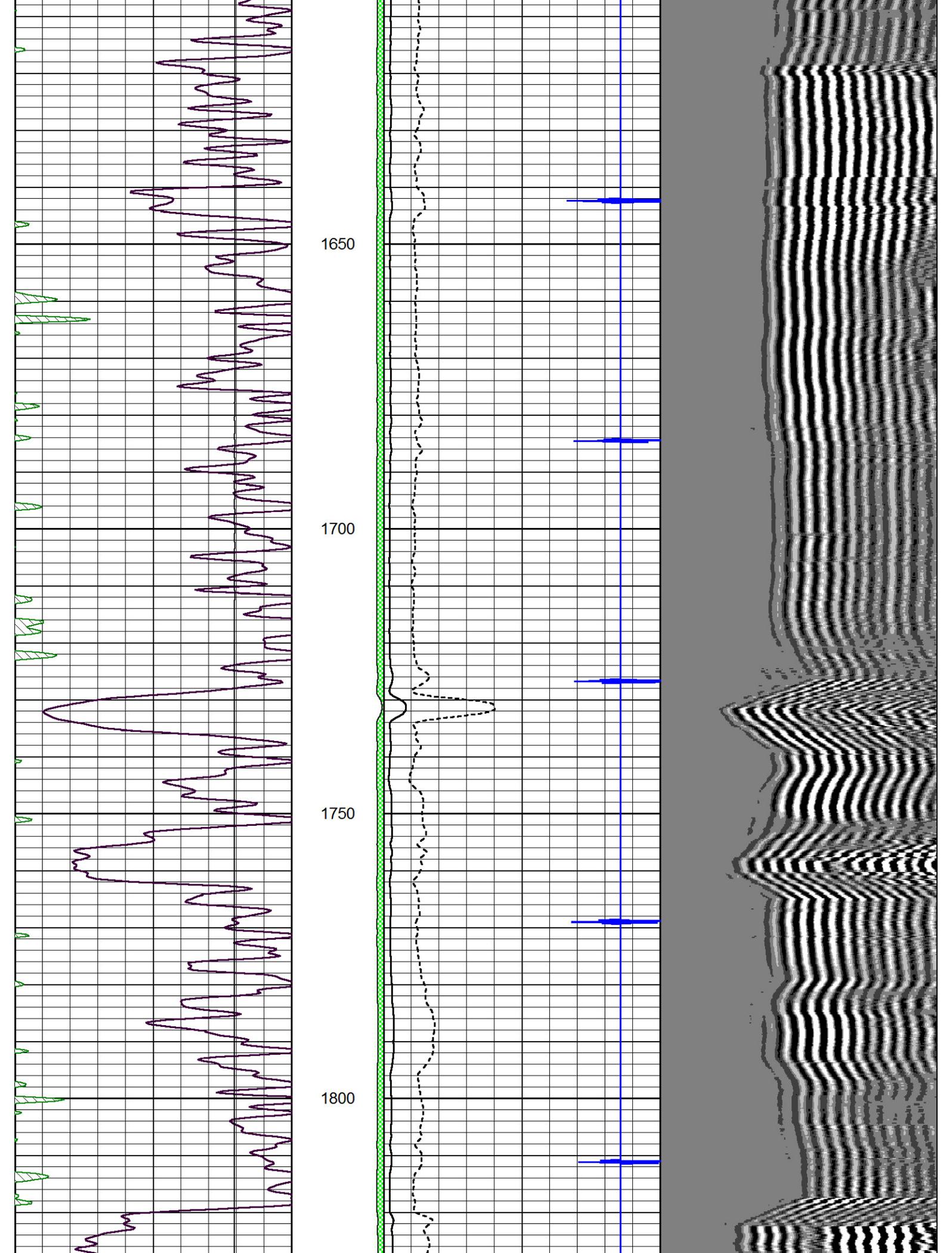
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 Dataset Creation: Tue Jan 28 12:31:54 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

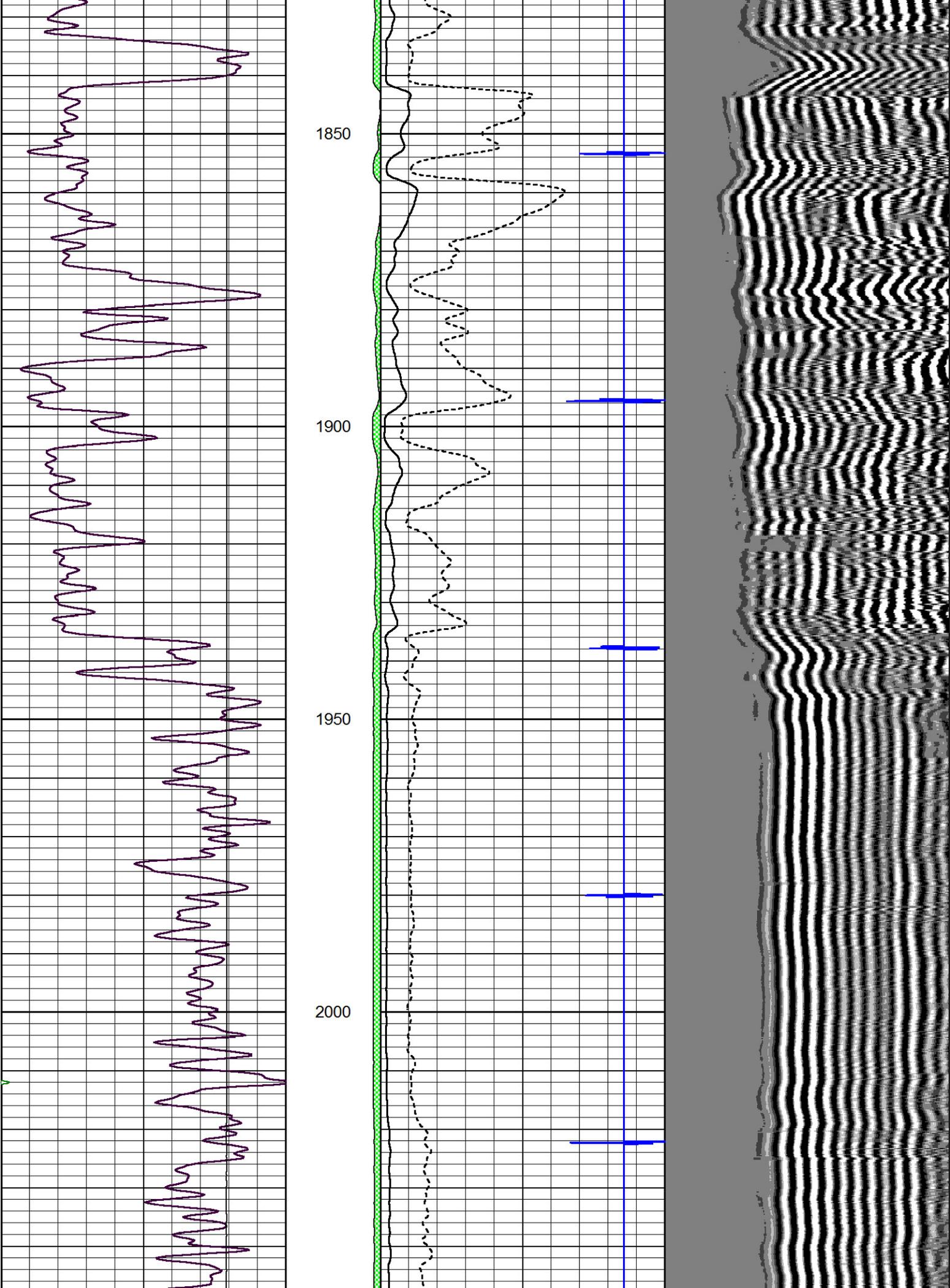
0	Gamma Ray	150	amp3ft	3	Casing Collars	-0.5	200	wvf5ft	1200
4000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			

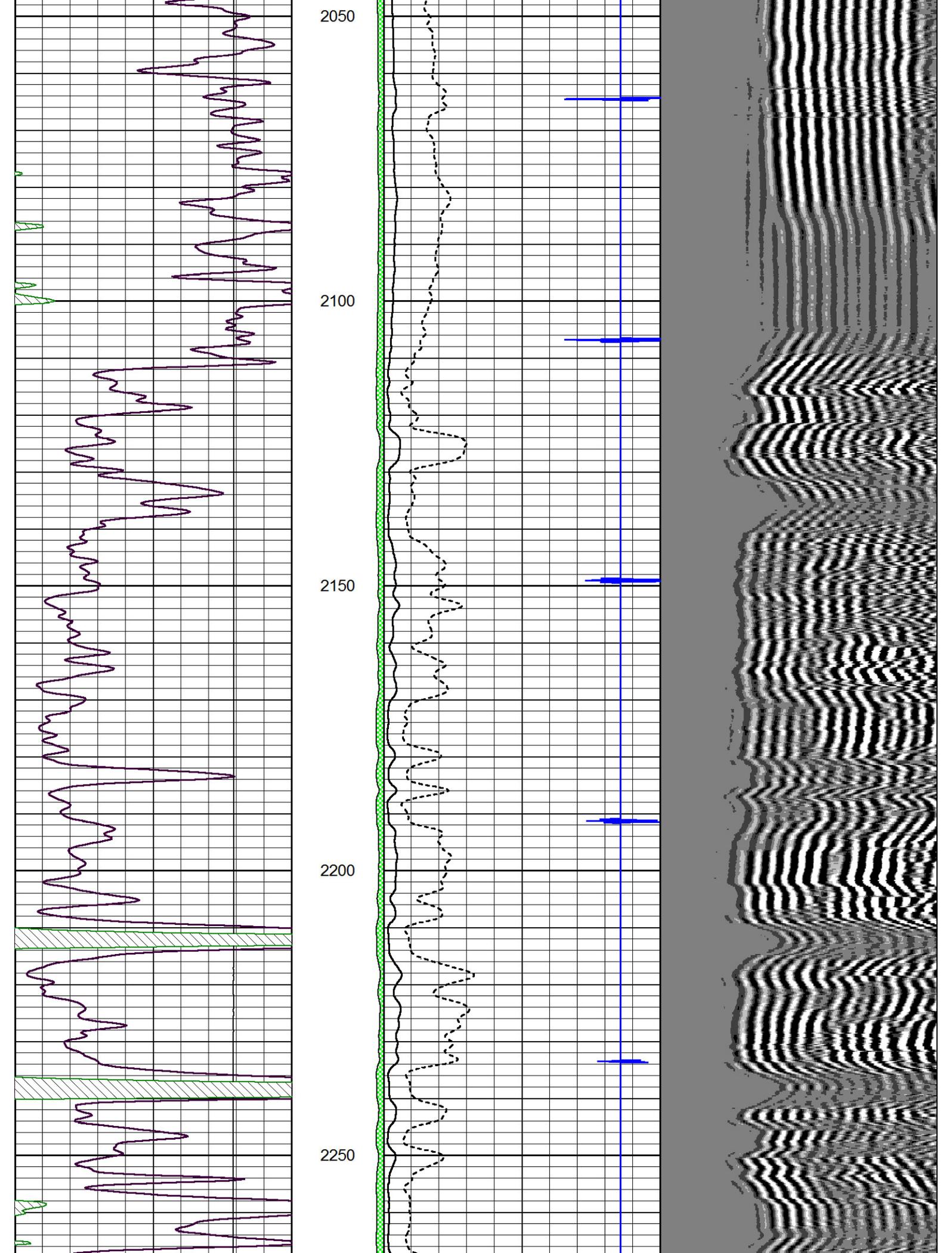


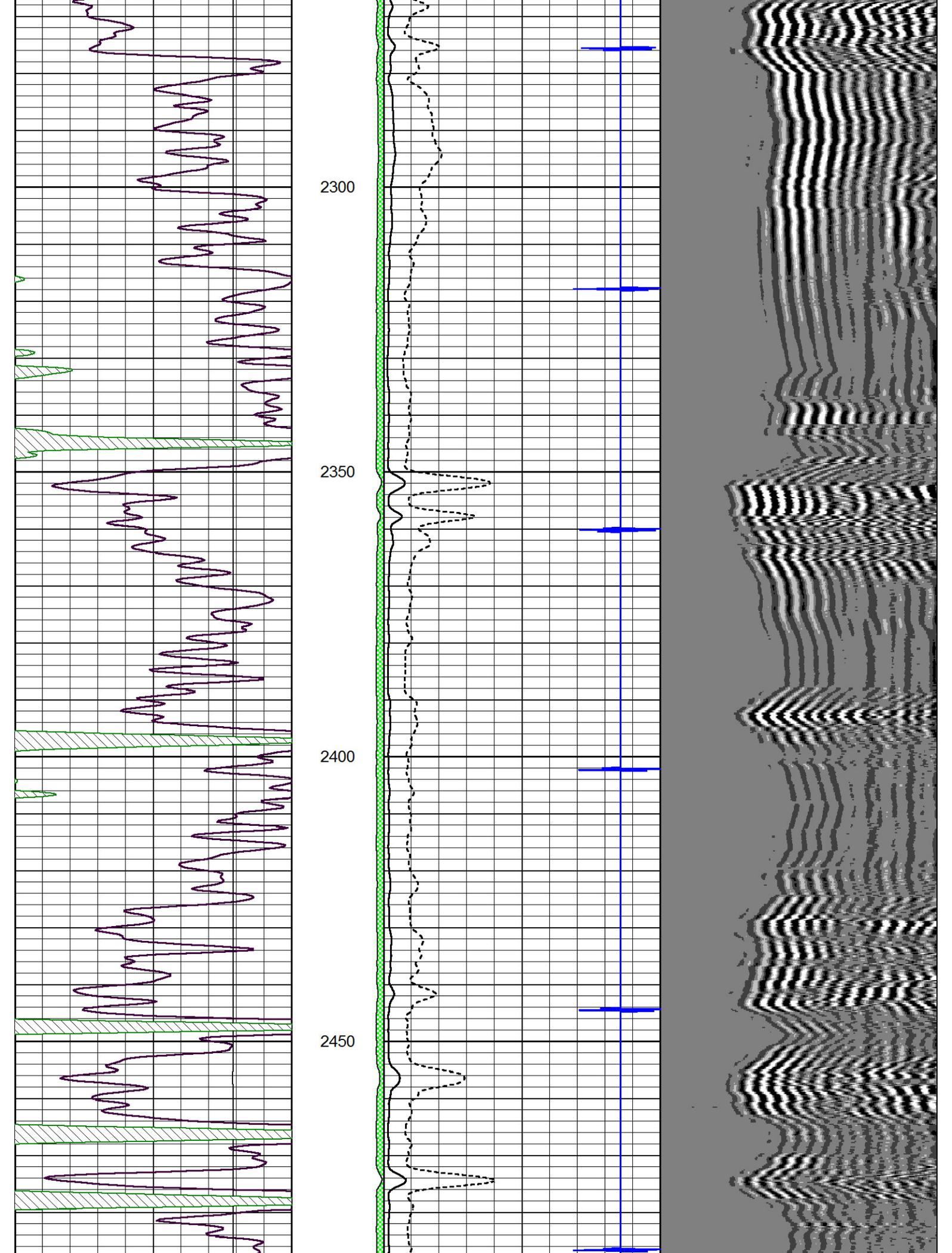


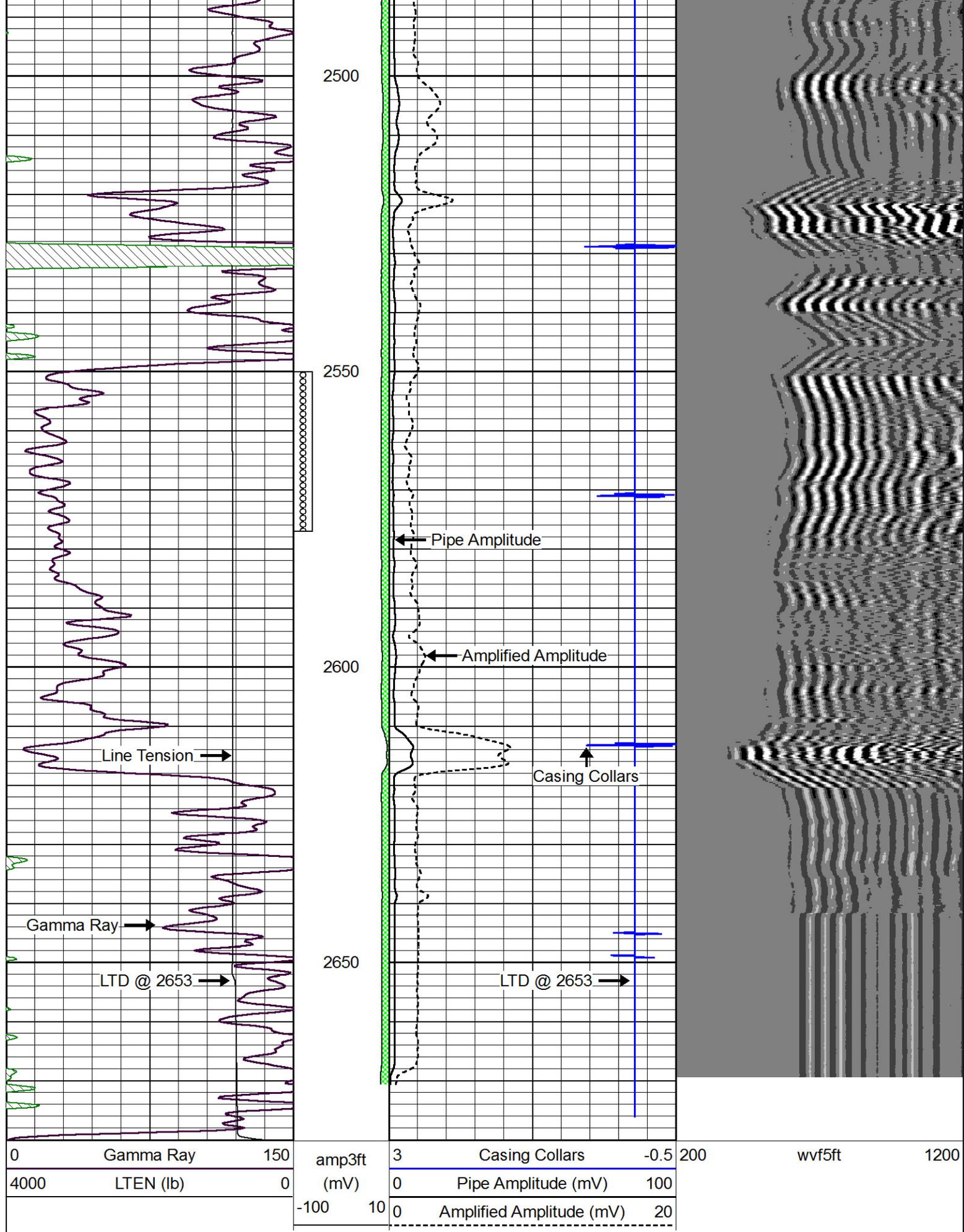










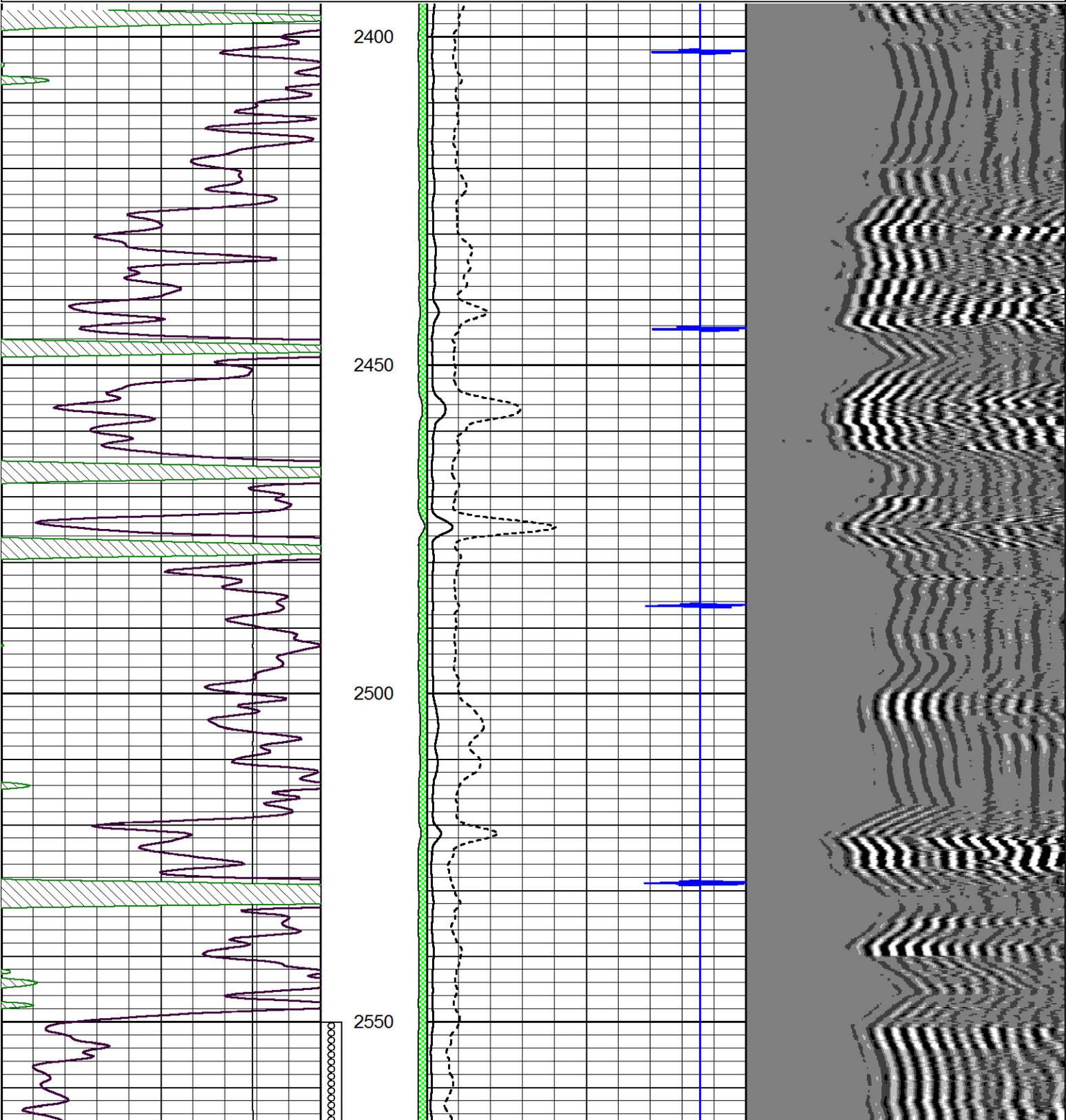


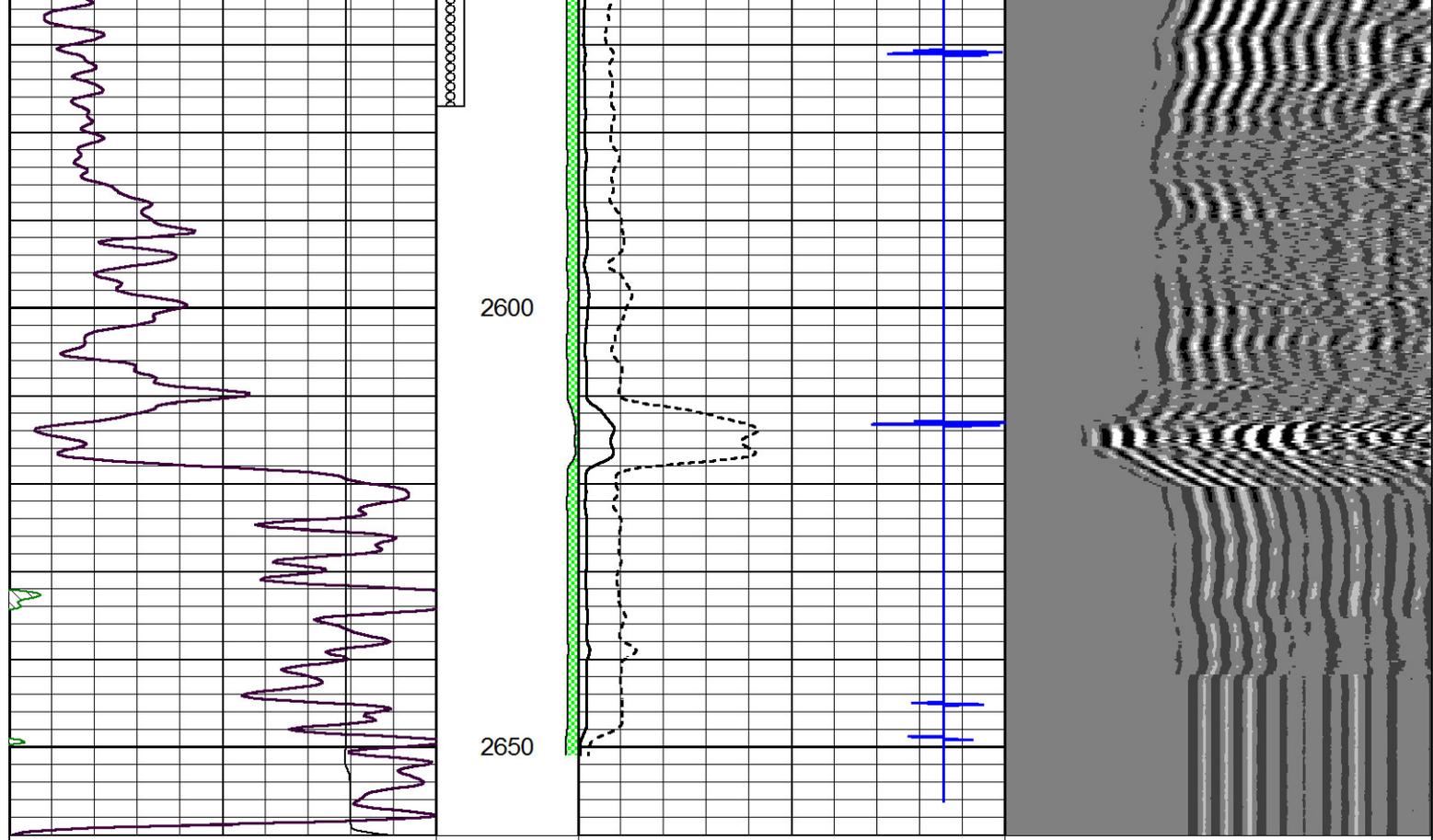
Repeat Section

Pioneer Energy Services

Database File: tri-powers-12-b.db
 Dataset Pathname: grcbl/pass3.1
 Presentation Format: cbldr
 Dataset Creation: Tue Jan 28 12:40:53 2014 by Calc 7.0 B1
 Charted by: Depth in Feet scaled 1:240

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4000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			





0	Gamma Ray	150	amp3ft	3	Casing Collars	-0.5	200	wvf5ft	1200
4000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			