



PIONEER

Pioneer Energy Services

**Sonic Cement
Bond Log**

API No.

15-145-21713-00-00

Company **H&D Exploration, LLC**

Well **Mermis No. 1**

Field **Ash Creek**

County **Pawnee**

State **Kansas**

Location

2462' FNL 1341' FEL

Other Services

Sec: **2** Twp: **21 S** Rge: **16 W**

Elevation

Permanent Datum Ground Level Elevation 1995
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2007
D.F. 2007
G.L. 1995

Run Number

One

Date Survey

04/04/2013

Date Cementing

03/30/2013

Type Cementing Operation

Primary

Depth Driller

3915

Depth Logger

3894

Logged Interval

3893 to 2450

Casing Driller

5.5 @ TD

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

2650

Calculated Cement Top

////

Max. Hole Temperature

116

Tool No.

RBT 3-6

Spacing Recorded

3'-5'

Equipment -- Location

18 D. Hagan

Recorded By

Gerald Achatz

Witnessed By

<<< 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

Pawnee Rock, Ks. 3 West on T Rd.
1/2 South, West into



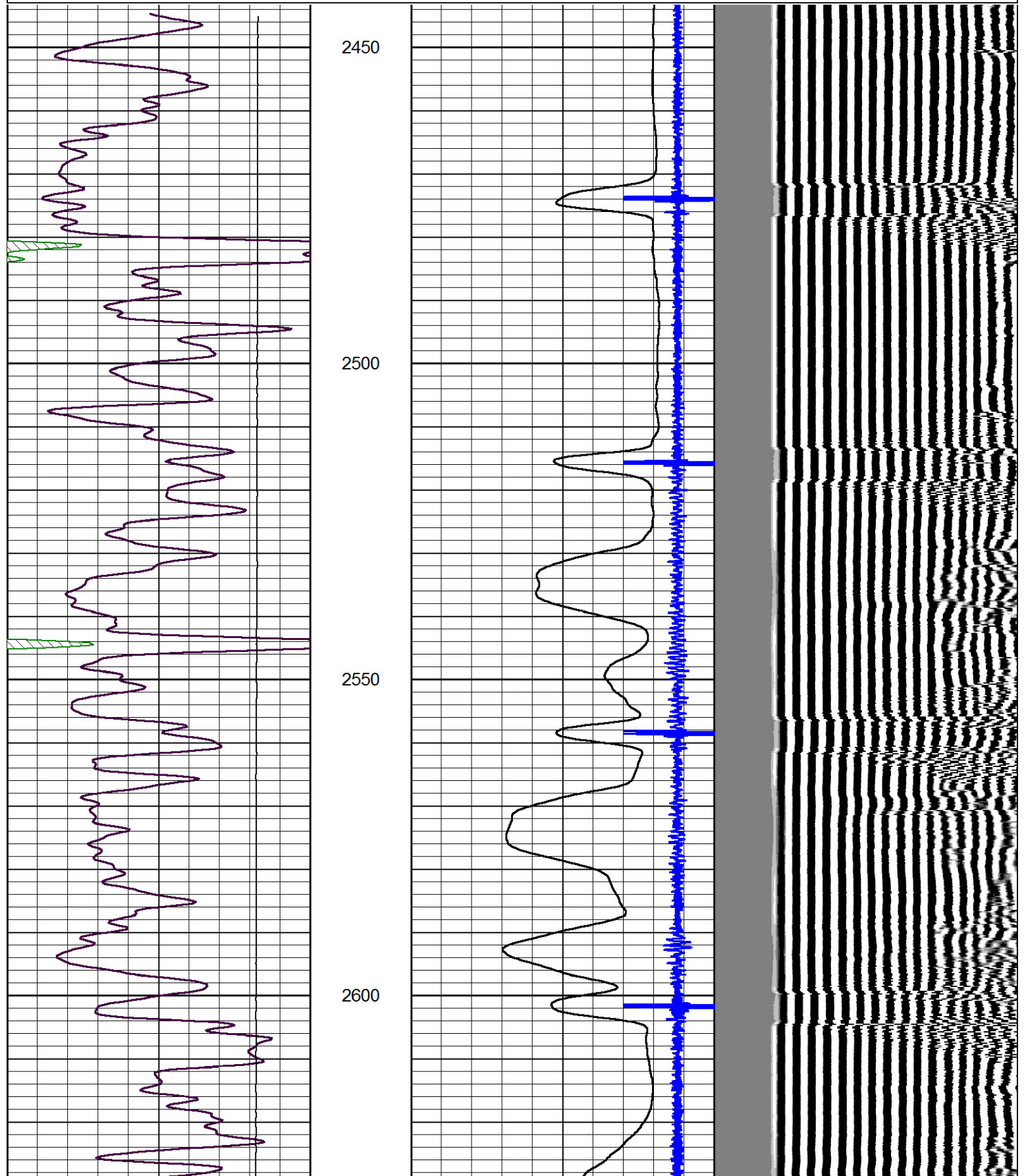
PIONEER

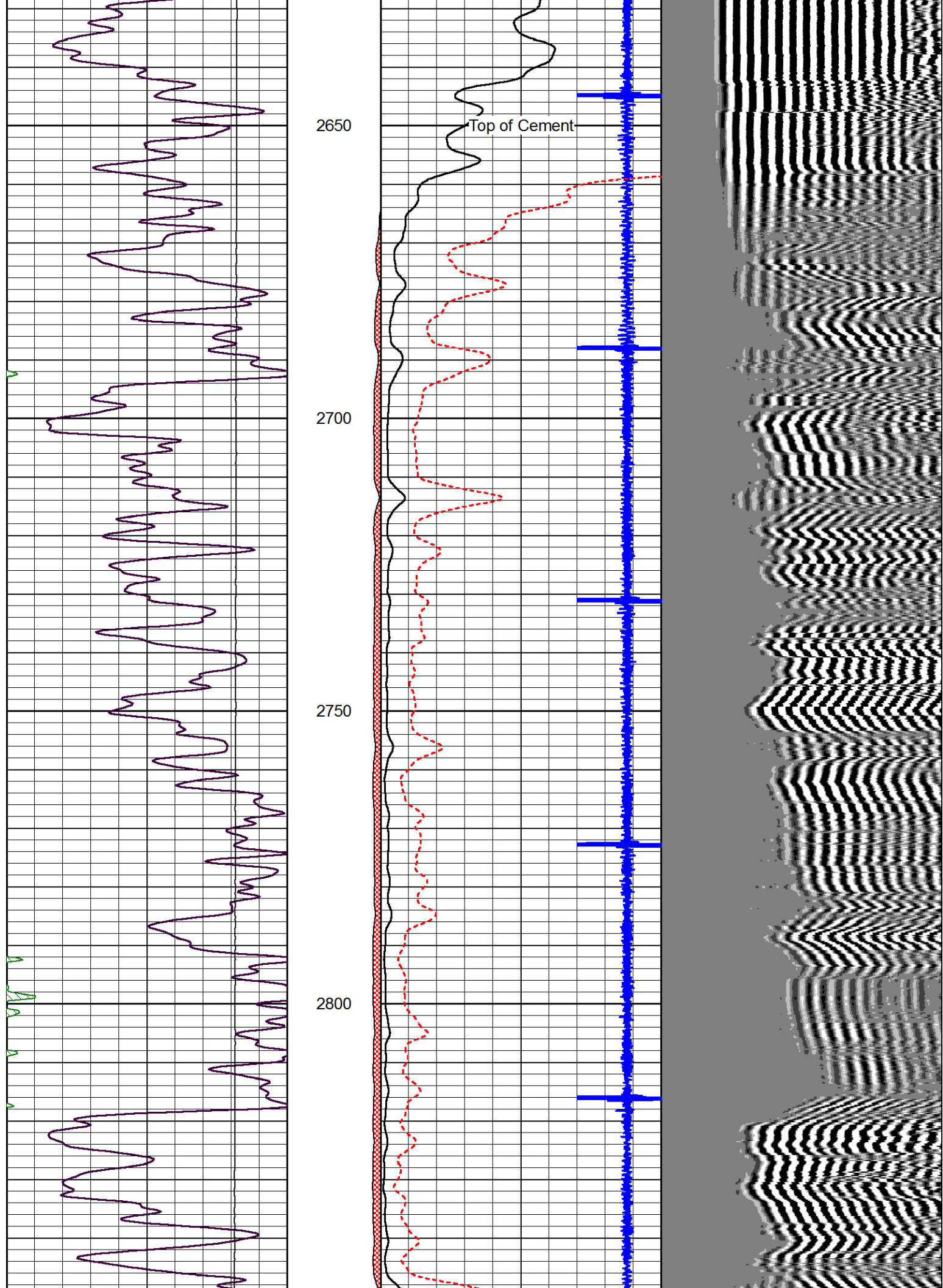
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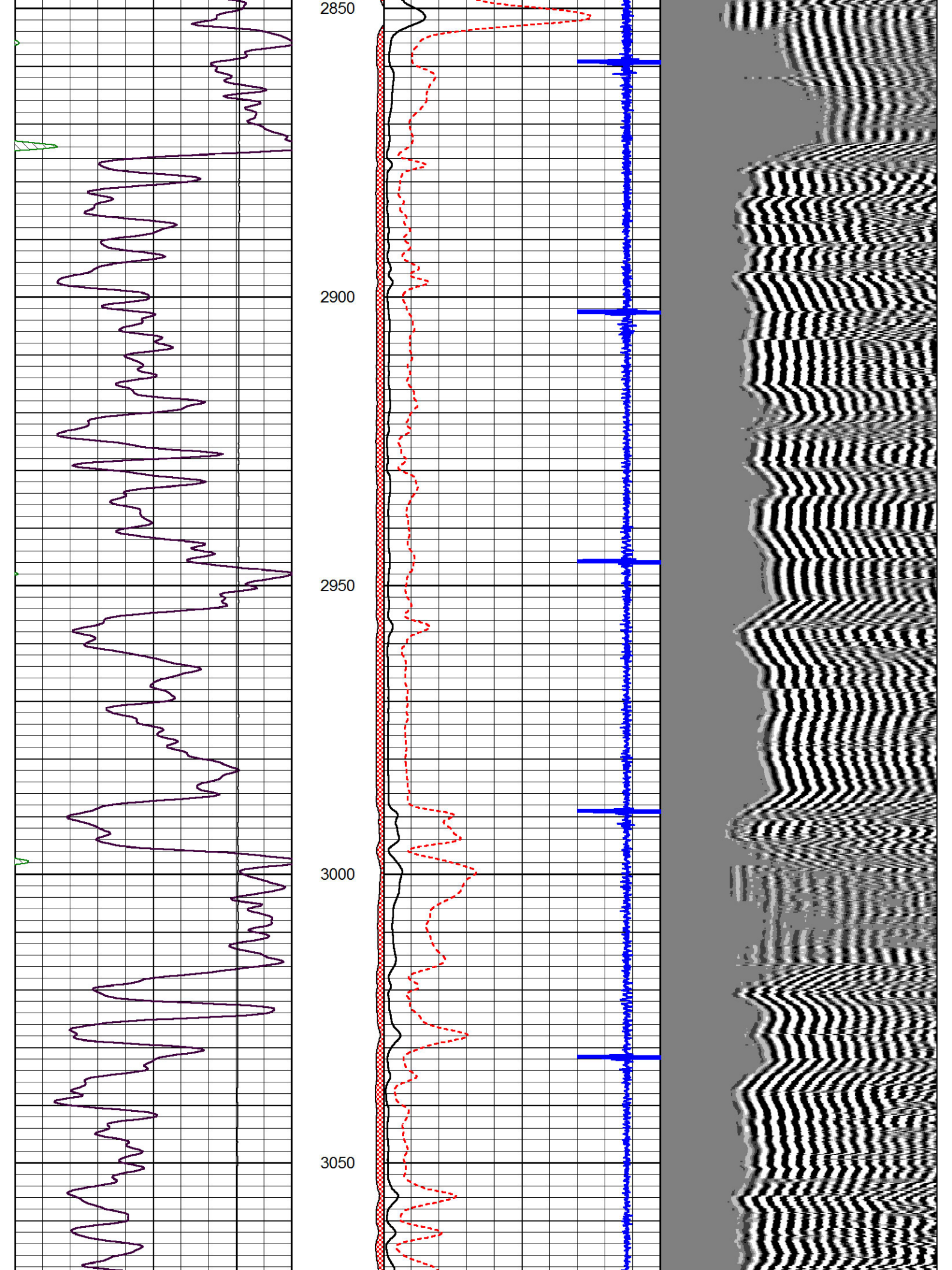
Main Pass

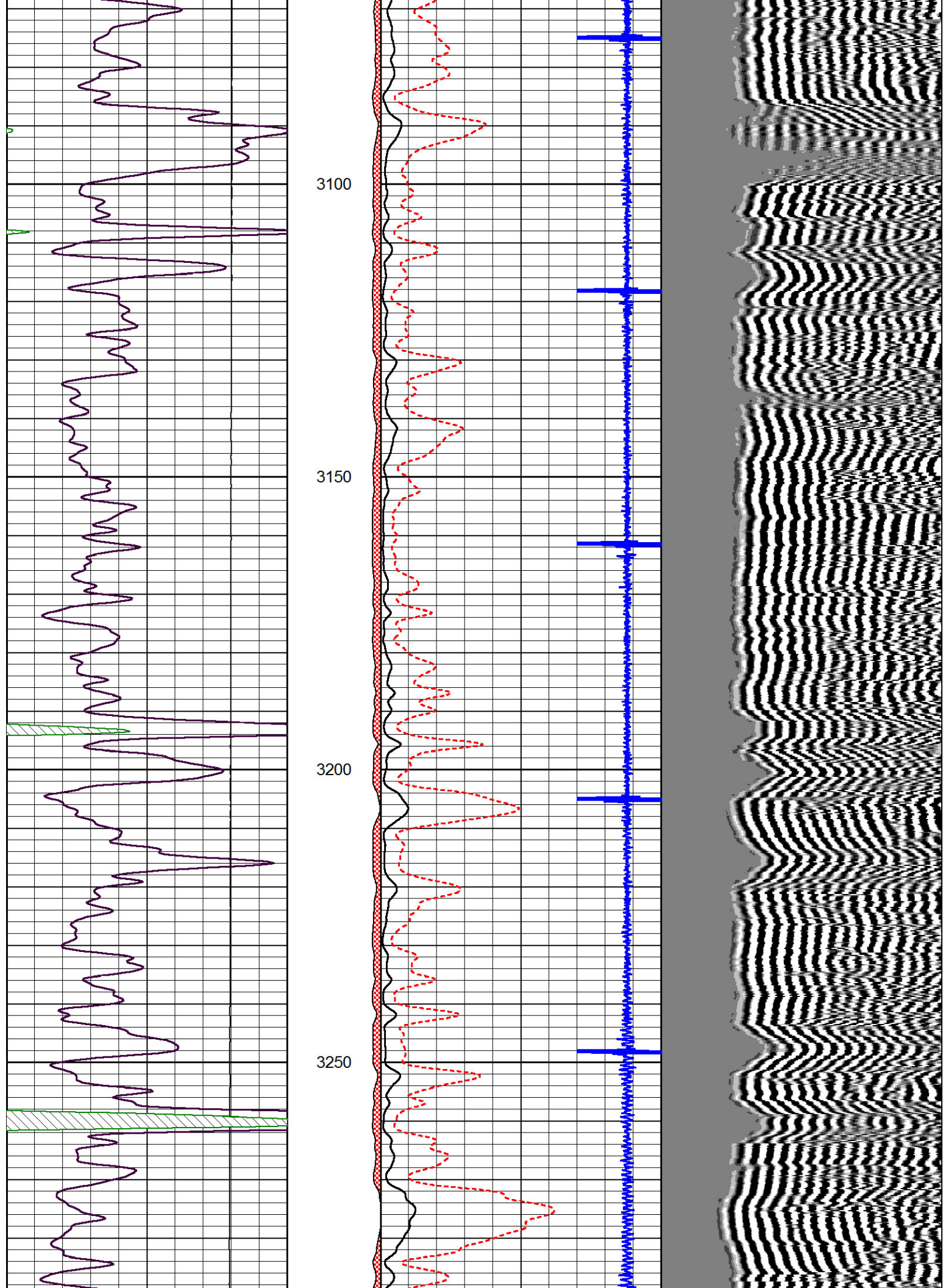
Database File: hdeploration_mermis_1.db
Dataset Pathname: grcbl/pass3
Presentation Format: cbldr
Dataset Creation: Thu Apr 04 10:14:29 2013 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

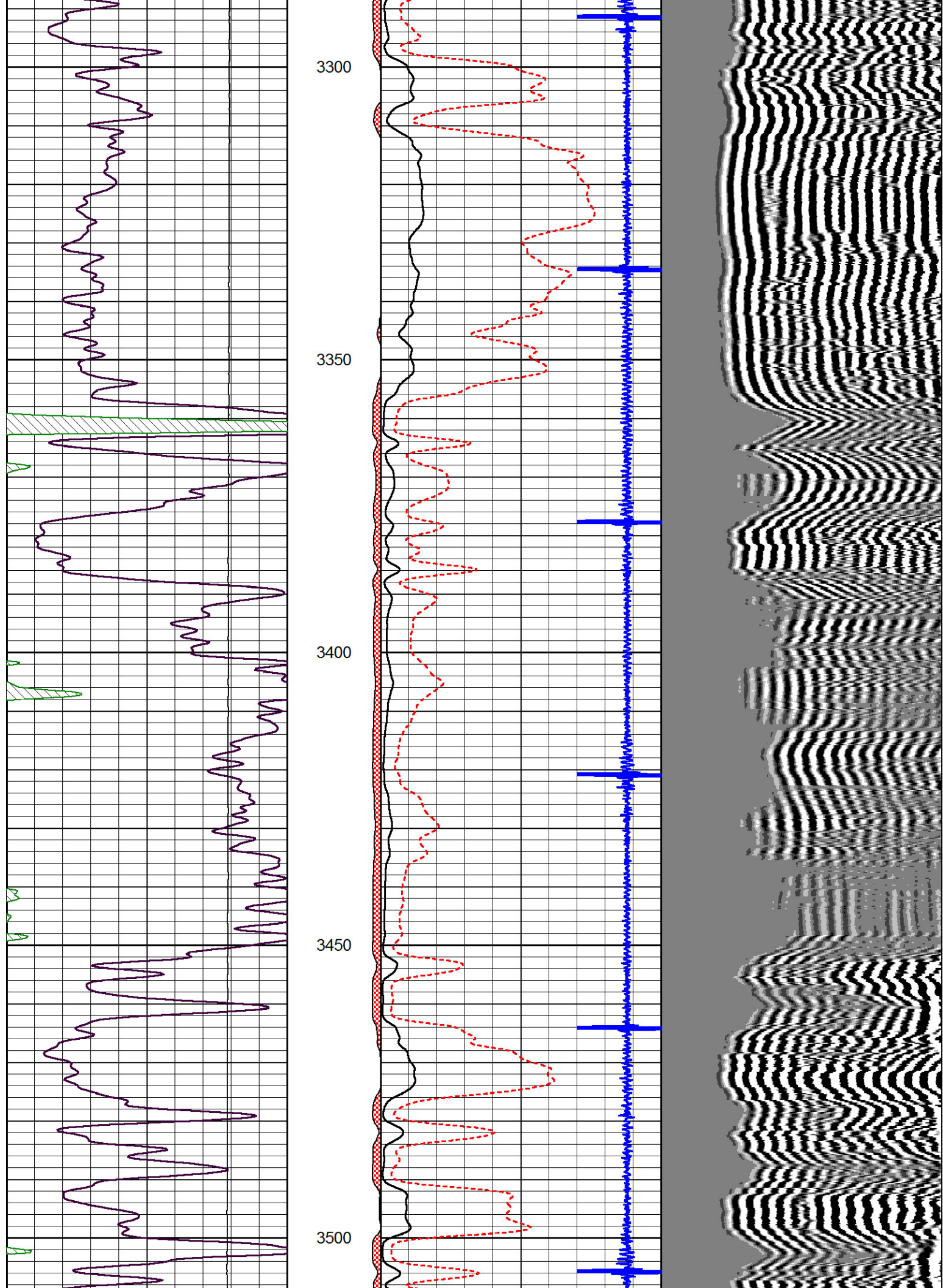
0	Gamma Ray	150	amp3ft	5	Casing Collars	-0.7	200	wvf5ft	1200
			(mV)	0	Pipe Amplitude (mV)	100			
		-100	10	0	Amplified Amplitude (mV)	20			

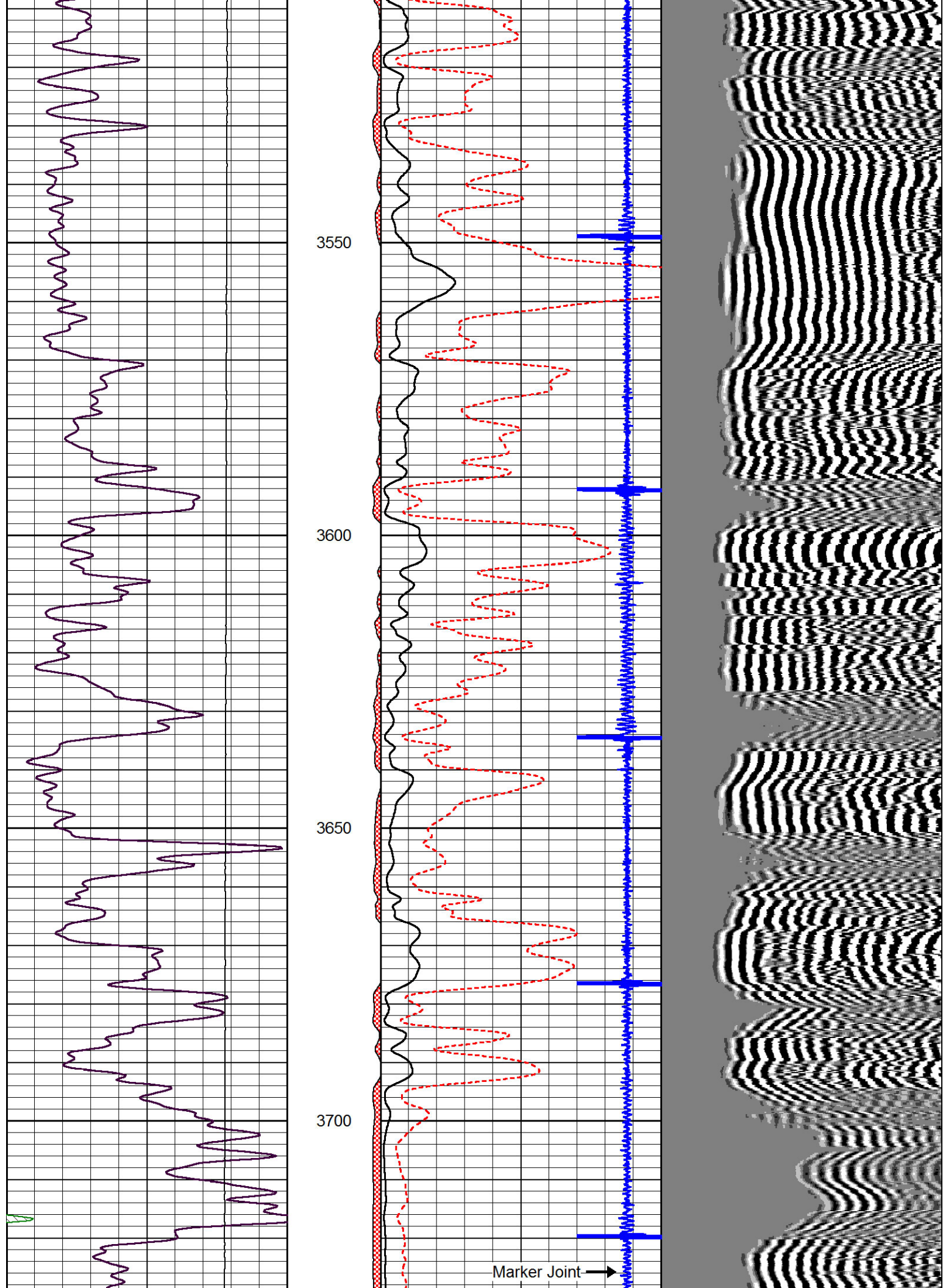


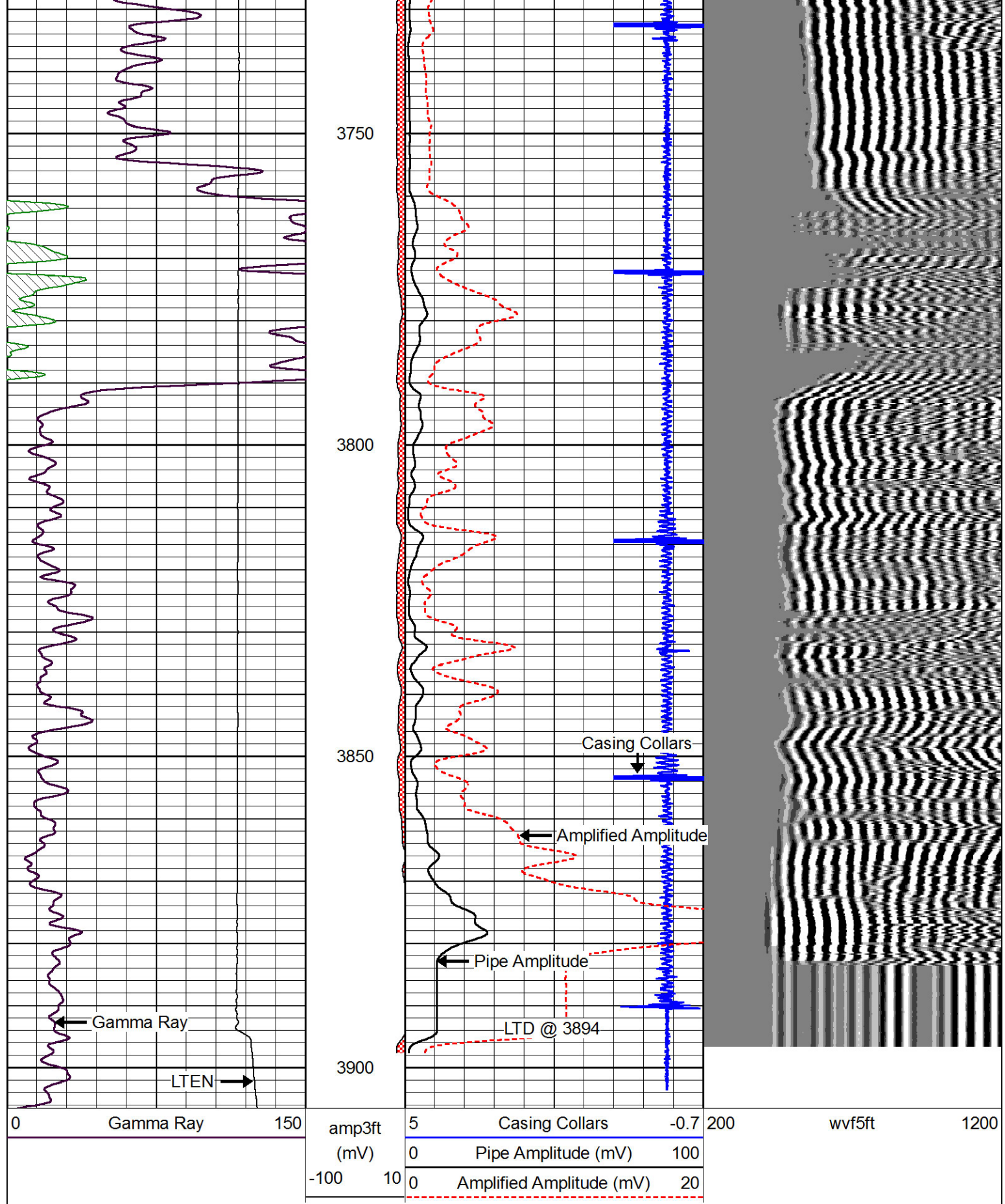












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