



Sonic Cement  
Bond Log

API No.

15-163-24001-00-00

Company Investment Equipment, LLC.

Well Ellers No. 8

Field Ellers

County Rooks

State Kansas

Location

NE-NE-NW  
330' FNL & 2310' FWL

Other Services

Sec: 27

Twp: 10 S

Rge: 18 W

Elevation

Permanent Datum Ground Level

Kelly Bushing

9

Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

K.B. 2085  
D.F. 2076  
G.L. 2076

Run Number

One

Date Survey

02/29/2012

Date Cementing

02/16/2012

Type Cementing Operation

Primary

Depth Driller

3738

Depth Logger

3712

Logged Interval

3711 to 2550

Casing Driller

5.5 @ TD

Float Collar -- D.V. Tool

1929 @

Squeeze Depth

////

Amount & Type Cement

////

Amount & Type Admix

////

Type Fluid In Hole

Water

Fluid Level

160

Salinity PPM CL

////

Weight lb/gal -- Vis.

////

Approx. Logged Cement Top

2724

Calculated Cement Top

////

Max. Hole Temperature

112

Tool No.

RBT 3-6

Spacing Recorded

3-5'

Equipment -- Location

18 Hays

Recorded By

D. Hagan

Witnessed By

Bob Allen

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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

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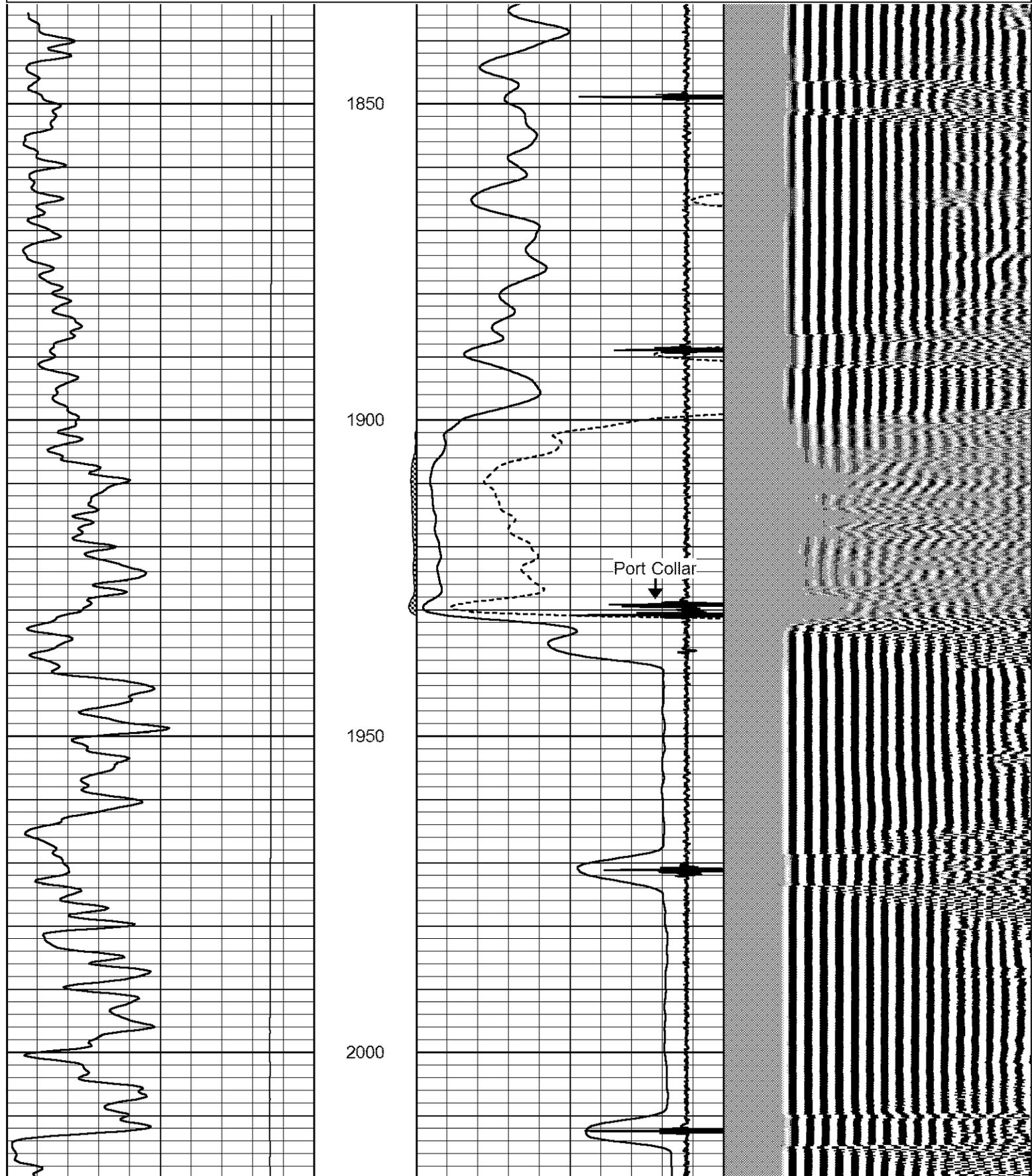
Plainville, Ks. South to CC Rd.  
3/4 West, South into



Port Collar @ 1929

Database File: investmentequip\_8.db  
 Dataset Pathname: grcbl/pass4  
 Presentation Format: cbldr  
 Dataset Creation: Wed Feb 29 08:40:30 2012 by Log SCH 110722  
 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			



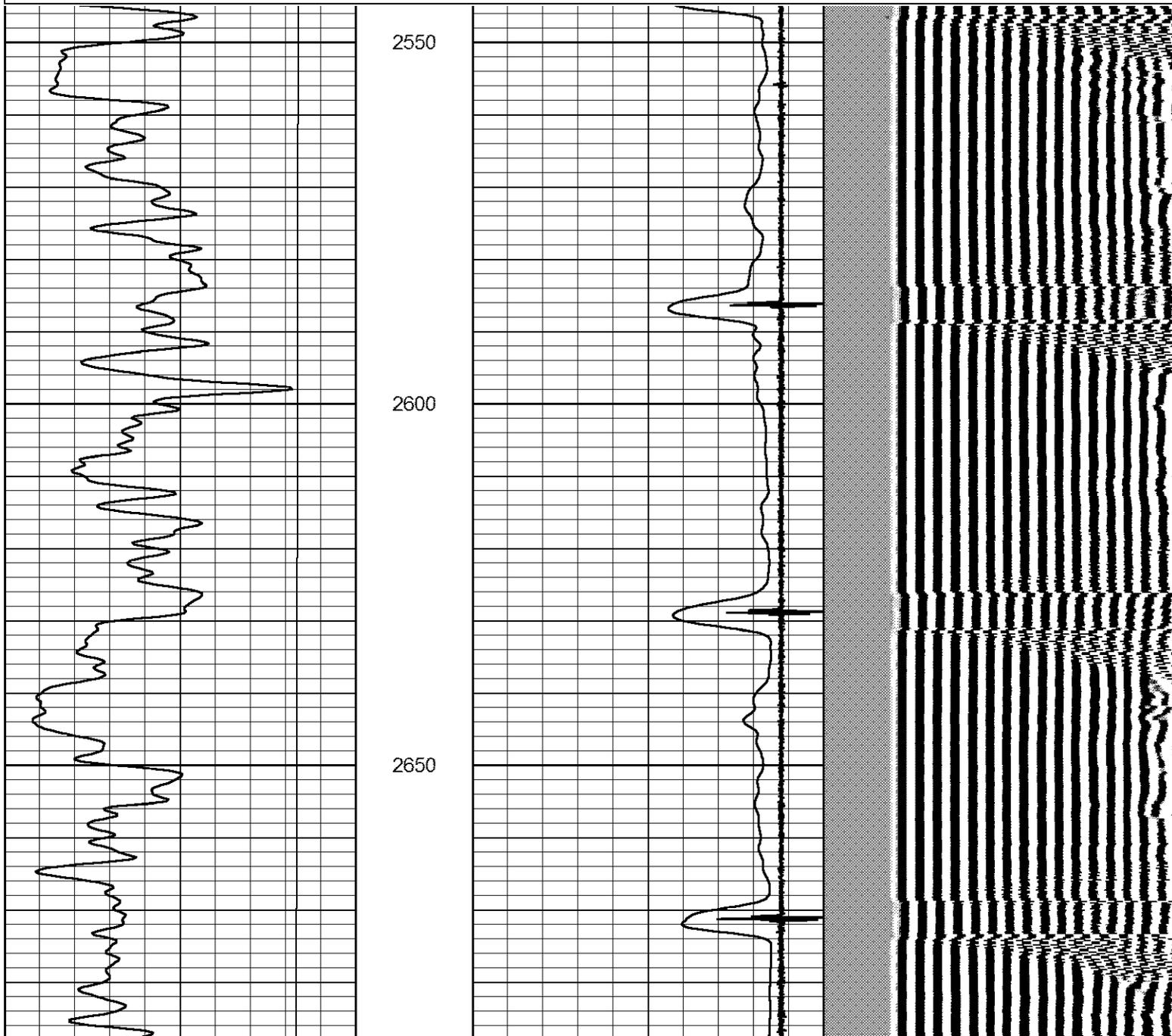
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			(mV)	0	Pipe Amplitude (mV)	100			
			-100	10	0	Amplified Amplitude (mV)	20		

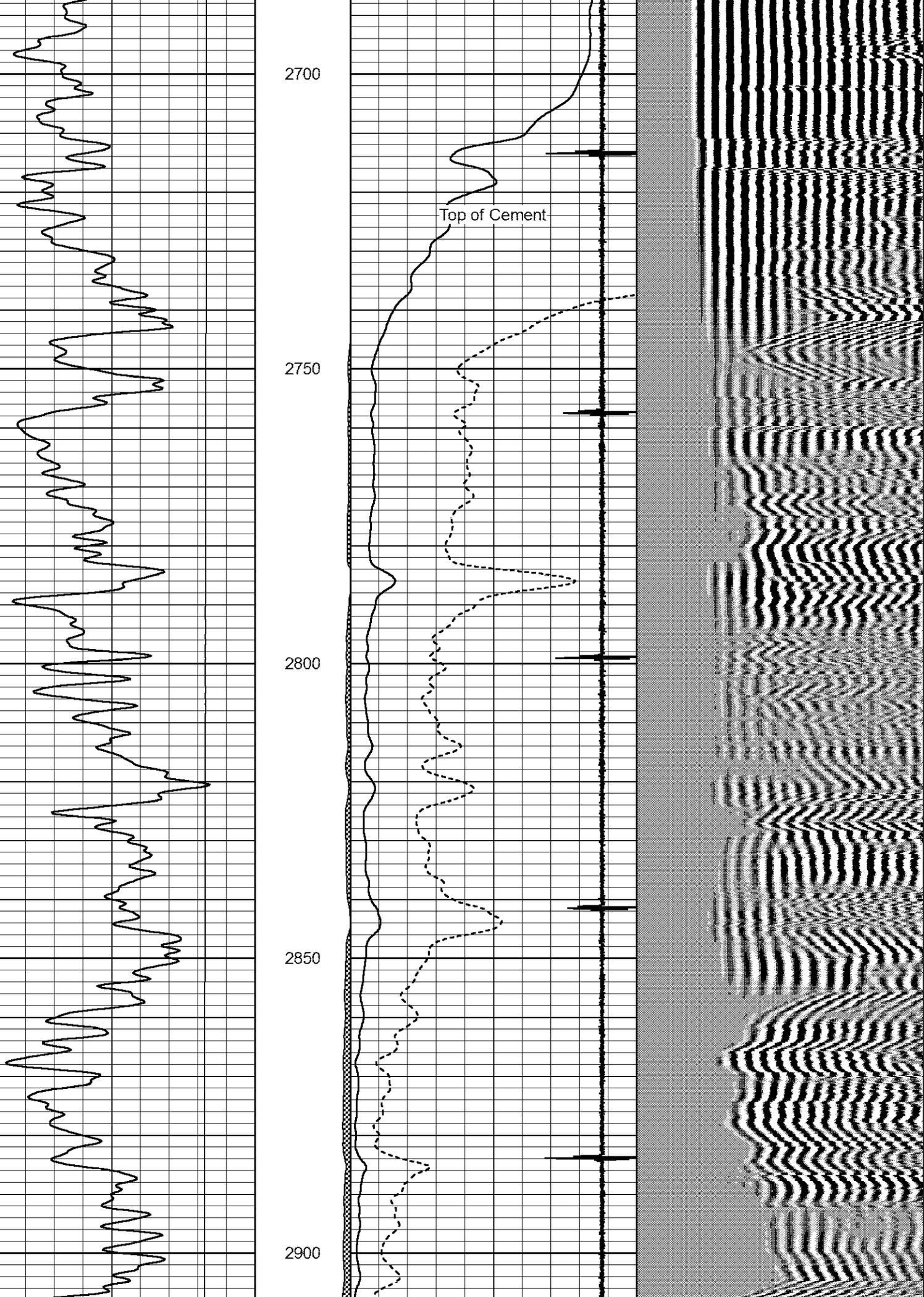


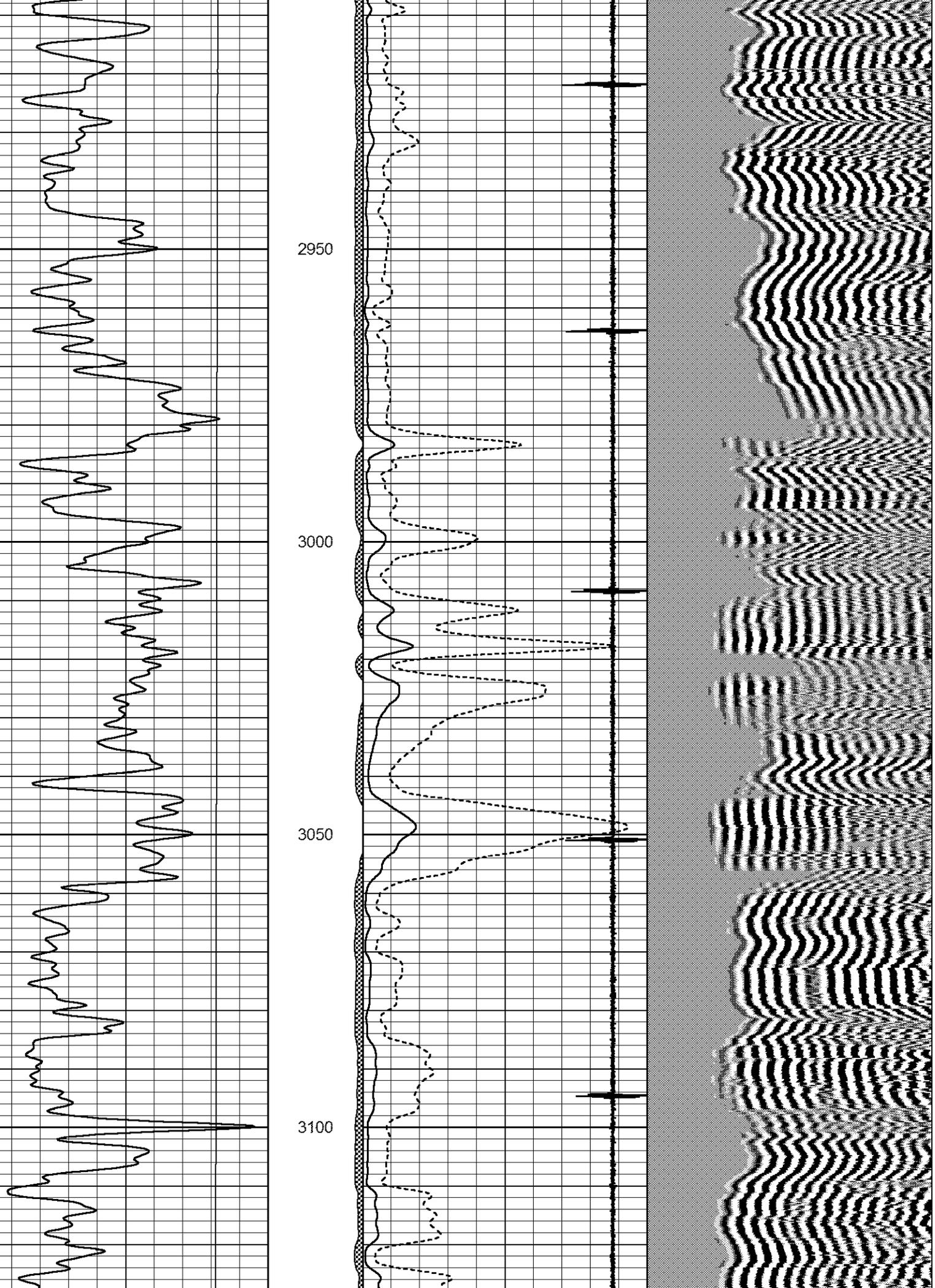
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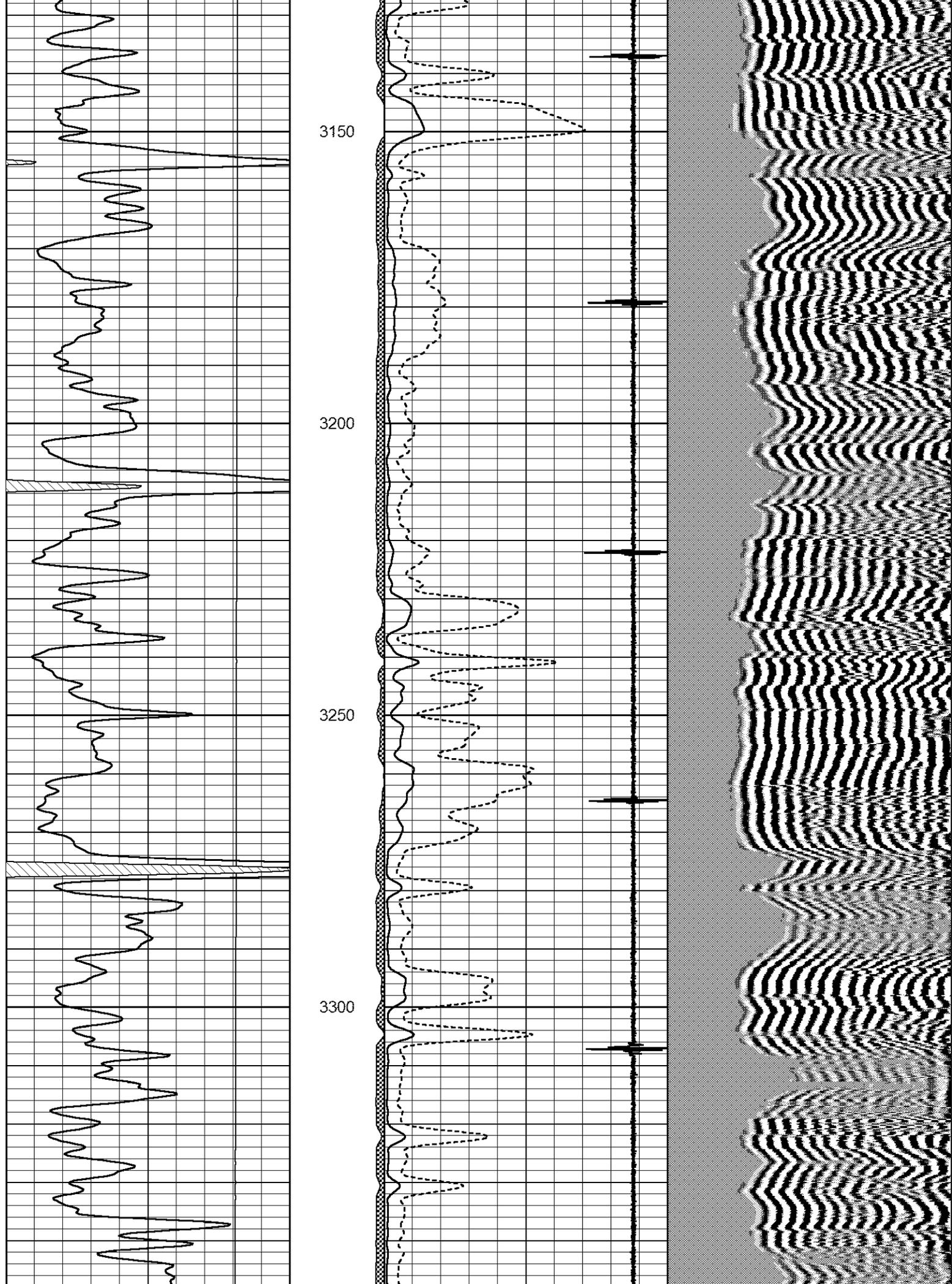
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 Charted by: Depth in Feet scaled 1:240

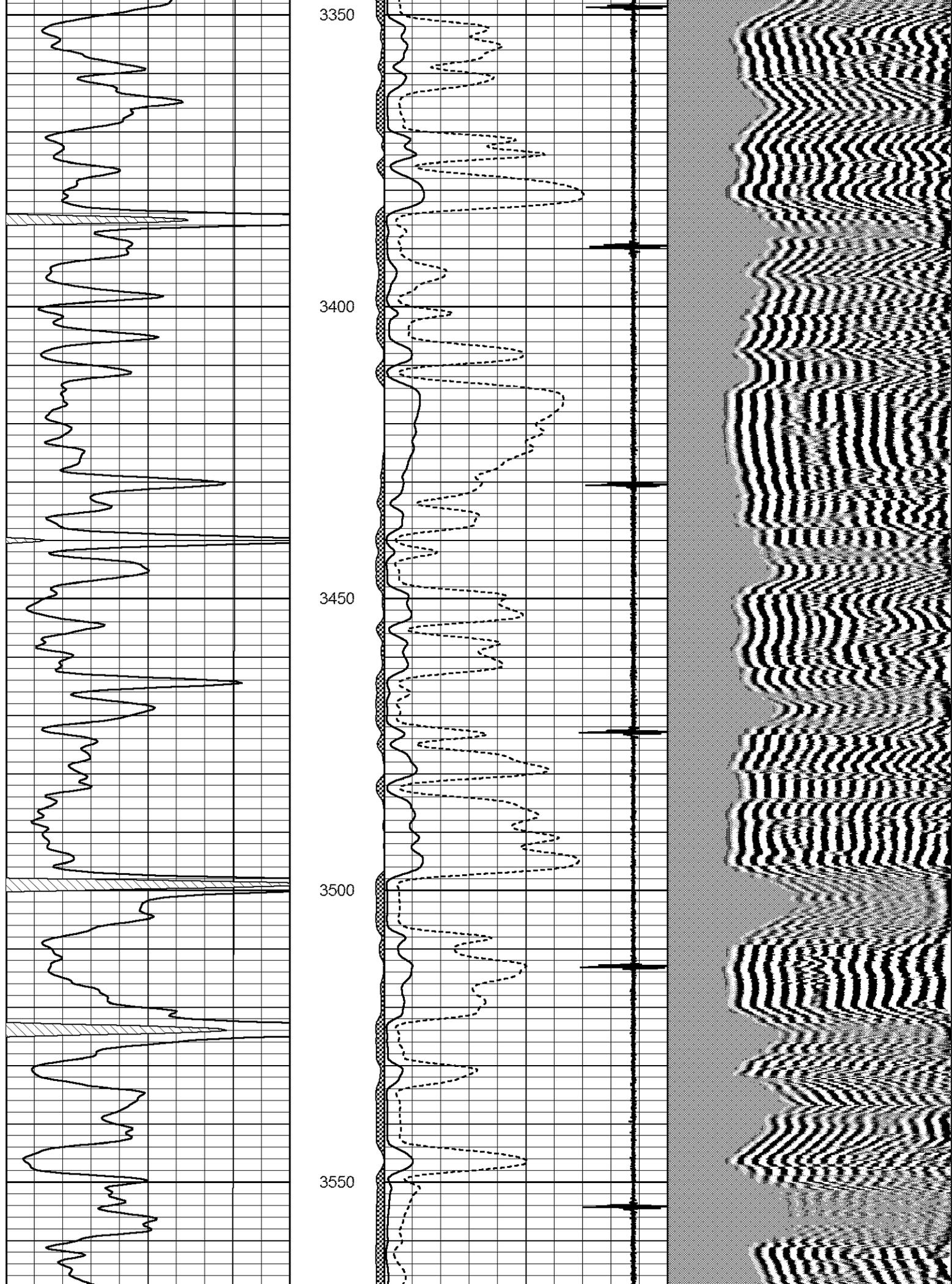
0	Gamma Ray	150	amp3ft	5	Casing Collars	-0.7	200	wvf5ft	1200
			(mV)	0	Pipe Amplitude (mV)	100			
			-100	10	0	Amplified Amplitude (mV)	20		

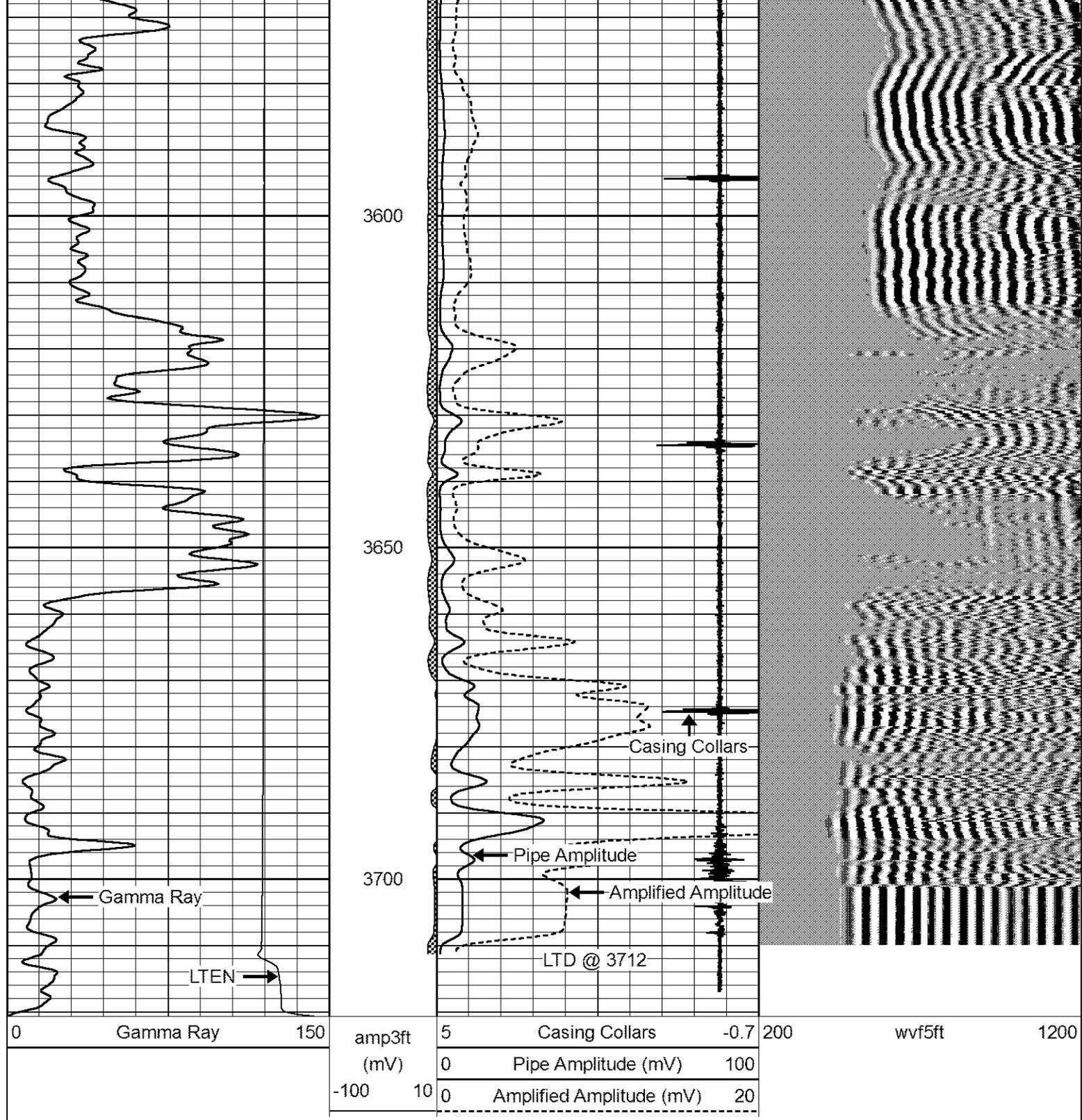






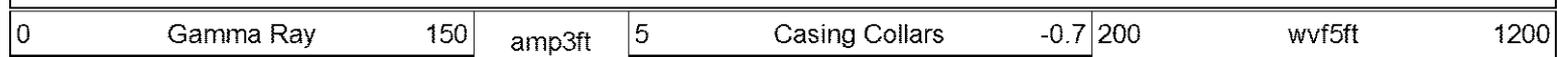




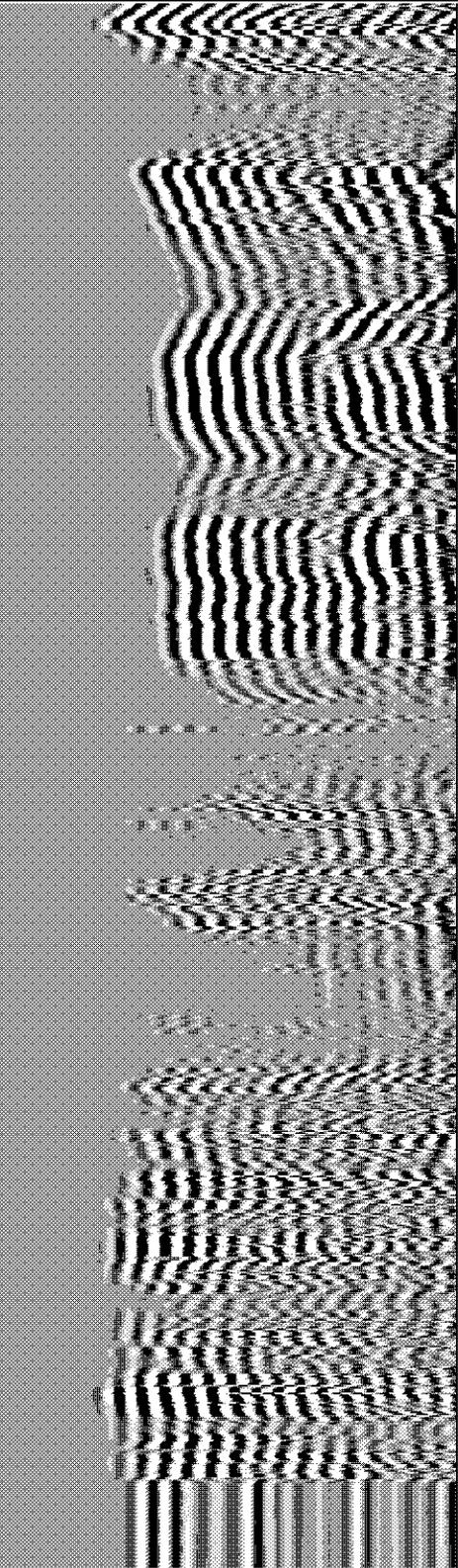
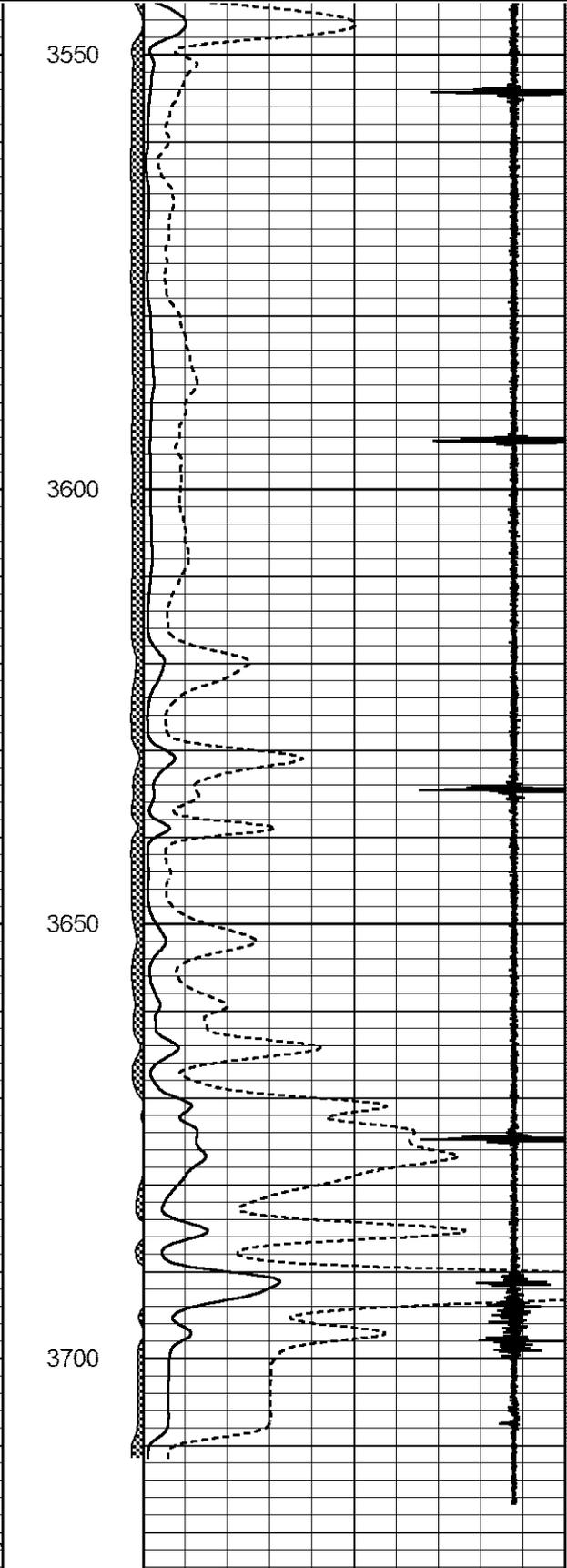
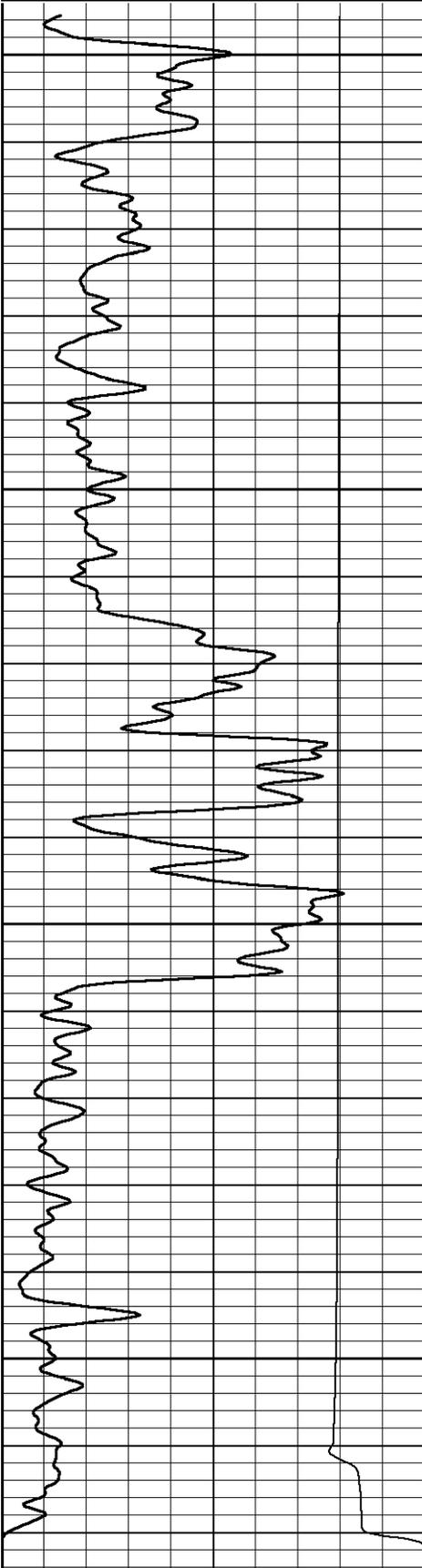


# Repeat Section

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 Presentation Format: cbldr  
 Dataset Creation: Wed Feb 29 08:04:36 2012 by Log SCH 110722  
 Charted by: Depth in Feet scaled 1:240



(mV) 0 Pipe Amplitude (mV) 100  
 -100 10 0 Amplified Amplitude (mV) 20



0 Gamma Ray 150  
 amp3ft (mV) -100 10

5 Casing Collars -0.7 200  
 0 Pipe Amplitude (mV) 100  
 0 Amplified Amplitude (mV) 20

wvf5ft 1200