



Sonic Cement Bond Log

Pioneer Energy Services

API No.

15-035-24607

Company Taos Resources Operating

Well LFJ No.2

Field Maddix North

County Cowley State Kansas

Location

1650' FNL & 330" FWL
NW SW NW

Sec: 34 Twp: 32S Rge: 5E

Other Services

Perforate

Permanent Datum Ground Level Elevation 1266

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

K.B. 1276
D.F. 1274
G.L. 1266

Run Number

One

Date Survey

10/7/2014

Date Cementing

9/28/2014

Type Cementing Operation

Primary

Depth Driller

3700

Depth Logger

3643

Logged Interval

3643 to 1510

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

1710

Calculated Cement Top

////

Max. Hole Temperature

////

Tool No.

RBT 1-1

Spacing Recorded

3-5

Equipment -- Location

106 Pratt

Recorded By

M. Schwerdtfeger

Witnessed By

Ray Dorothy

<<< 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
(620) 672-8300

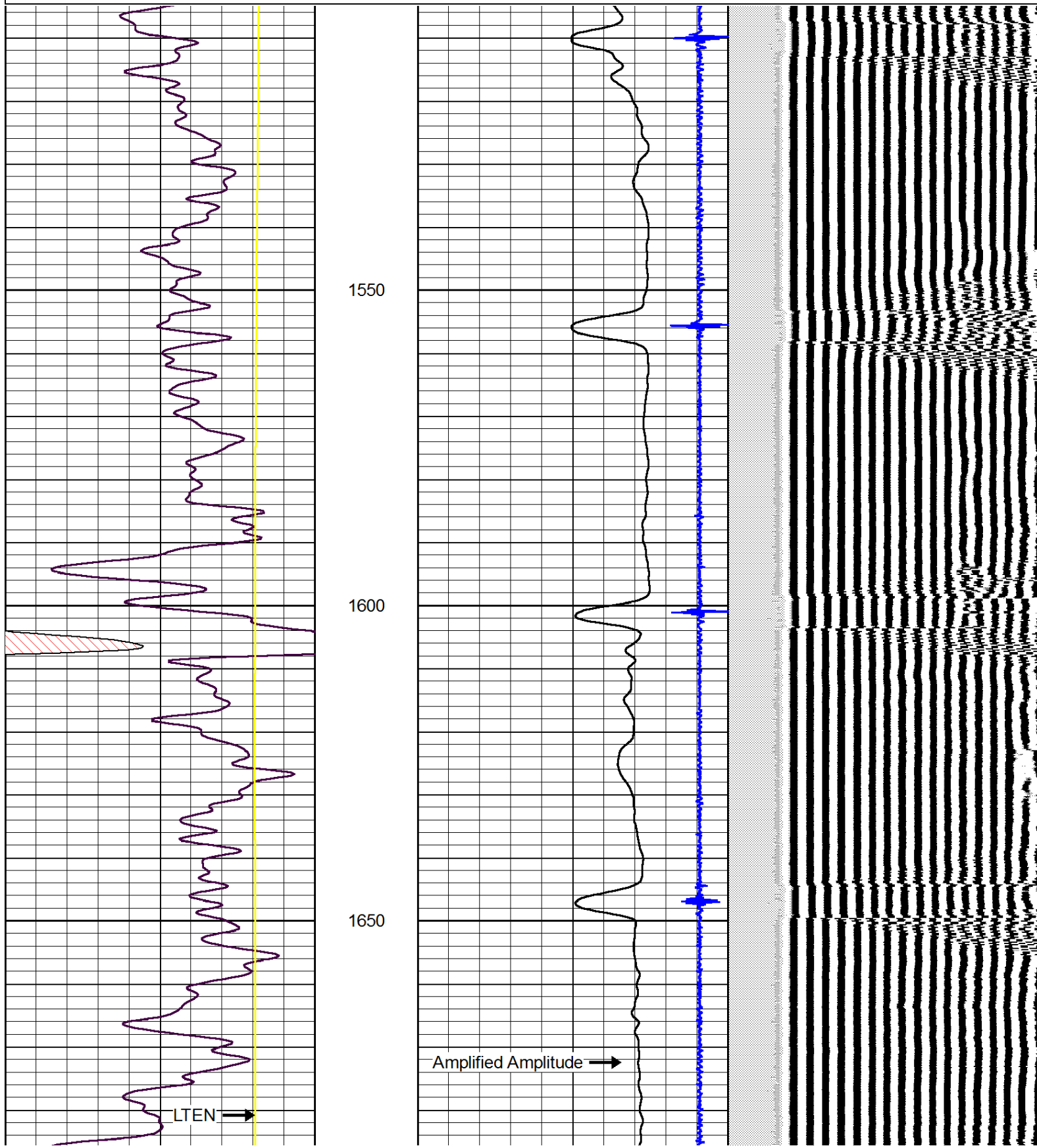
Winfield Ks,
East To Co. Rd. 1, 1 1/2 South
East Into

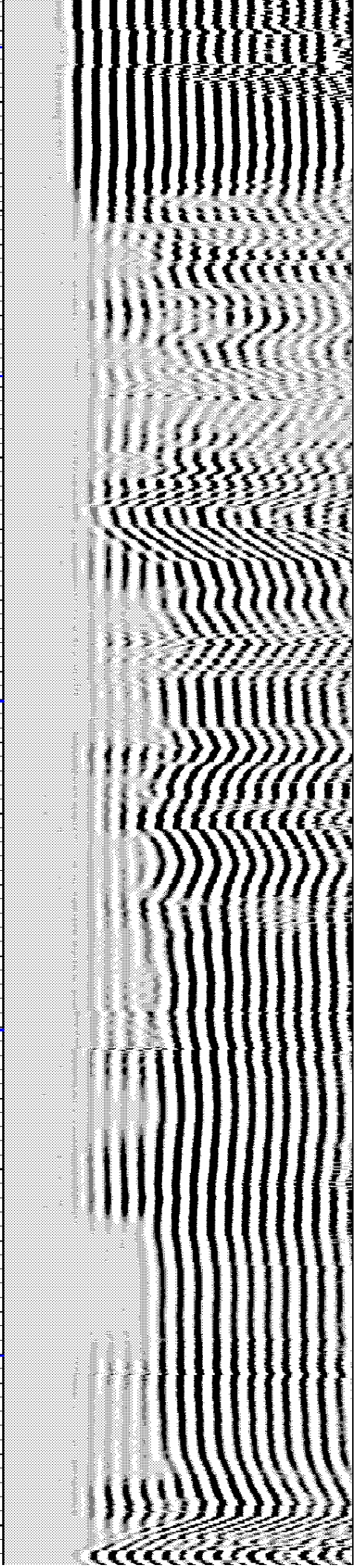
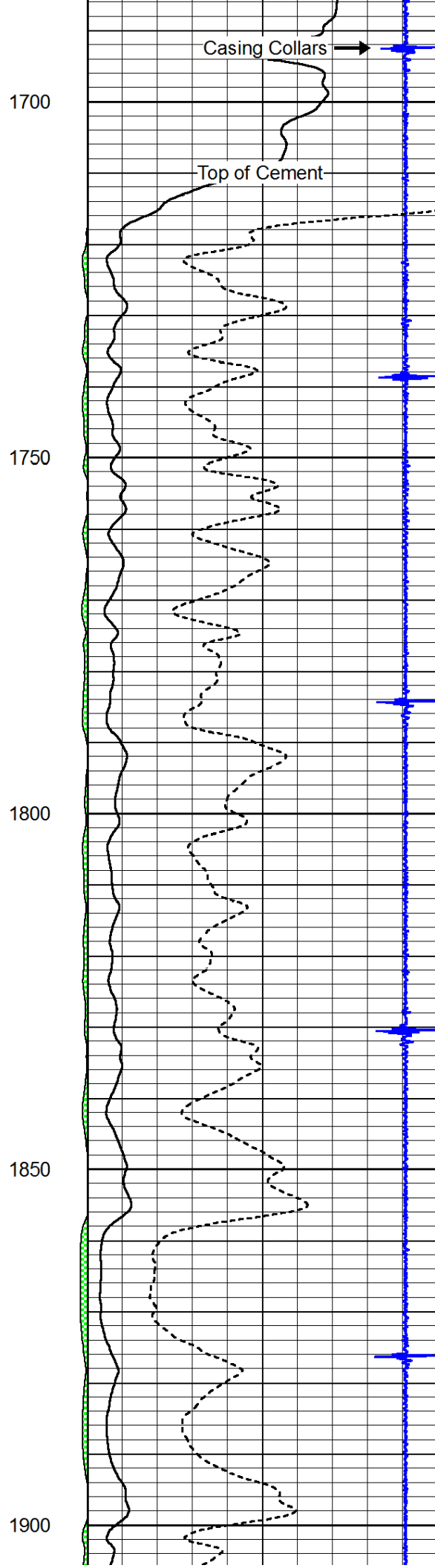
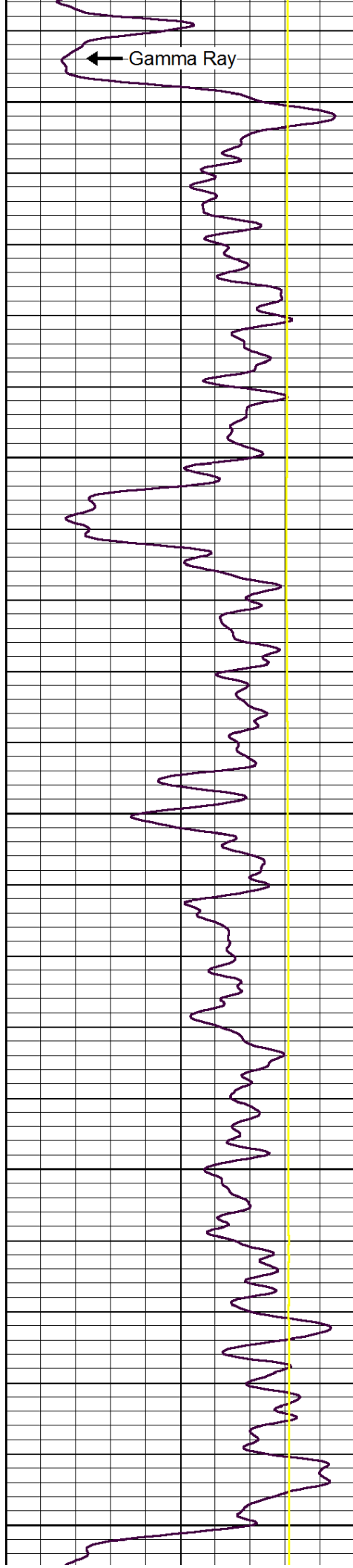


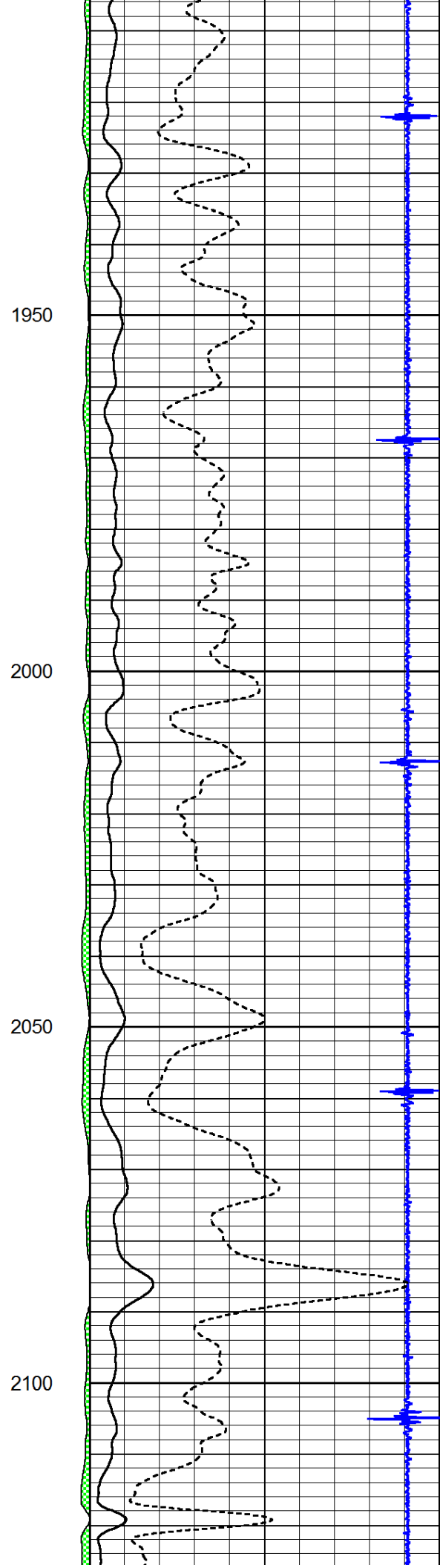
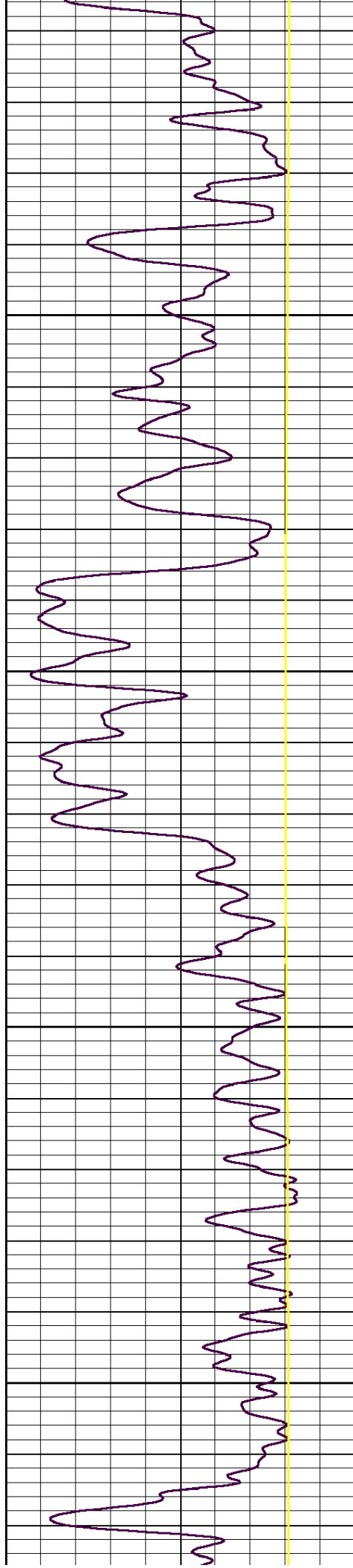
Main Pass

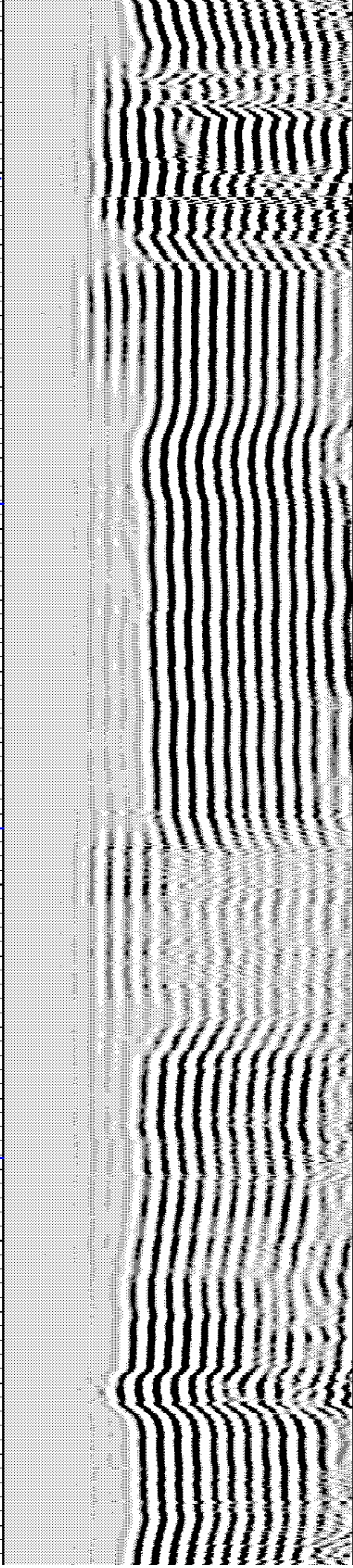
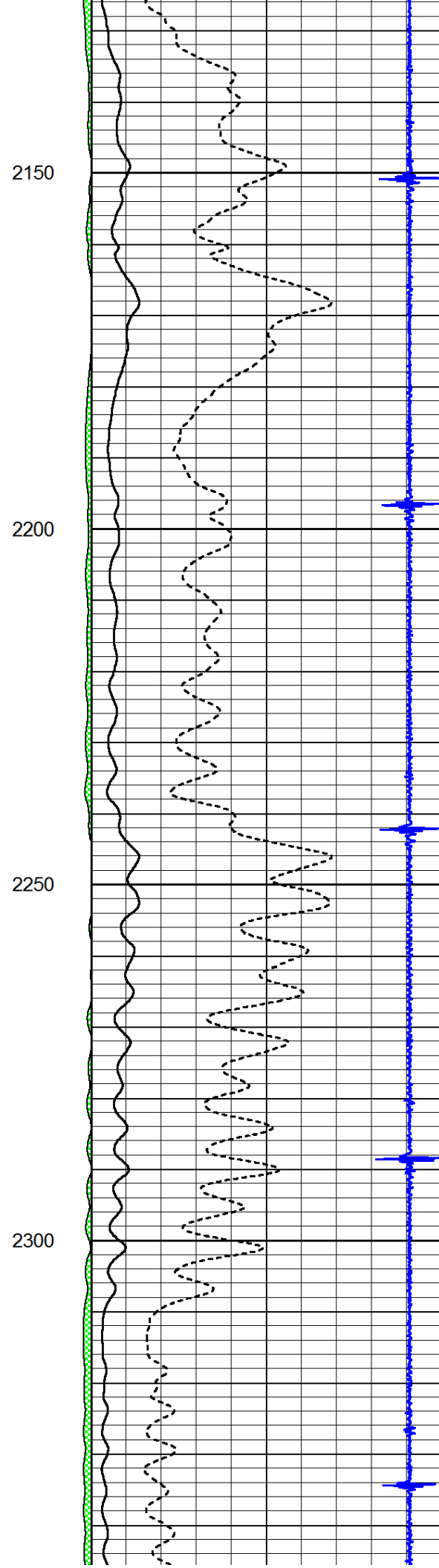
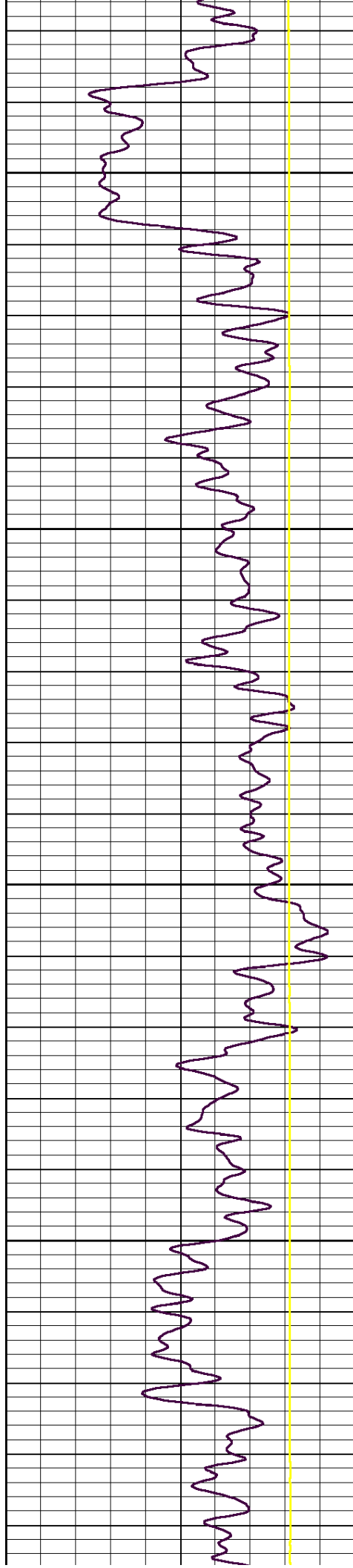
Database File: taos_lfj_2.db
 Dataset Pathname: grcbl/pass5
 Presentation Format: cbldr
 Dataset Creation: Tue Oct 07 13:35:53 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

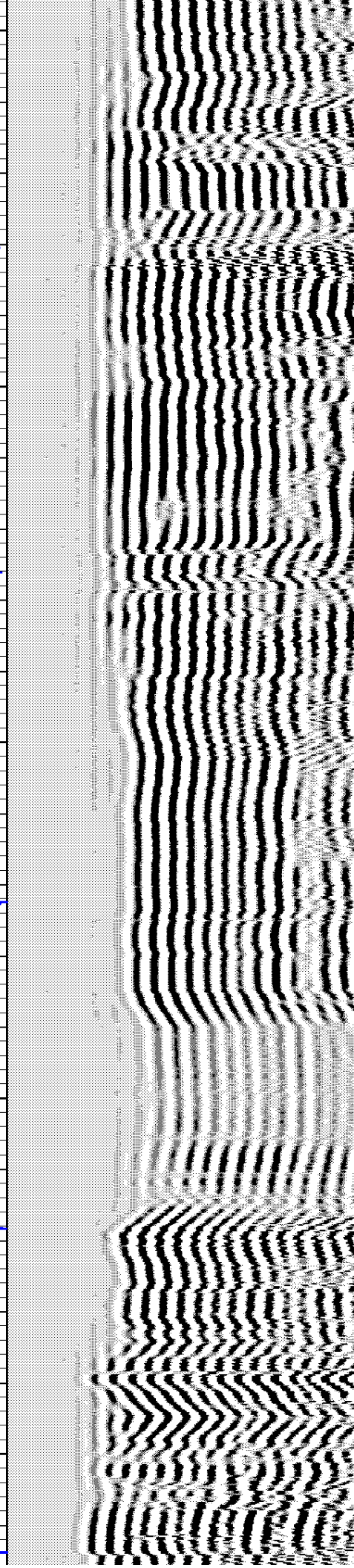
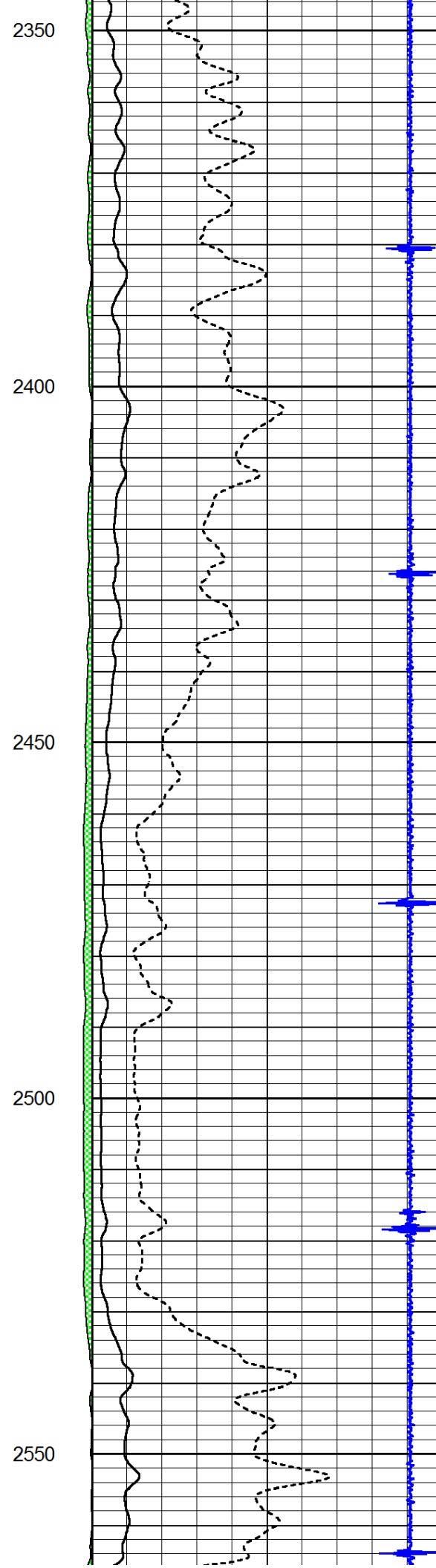
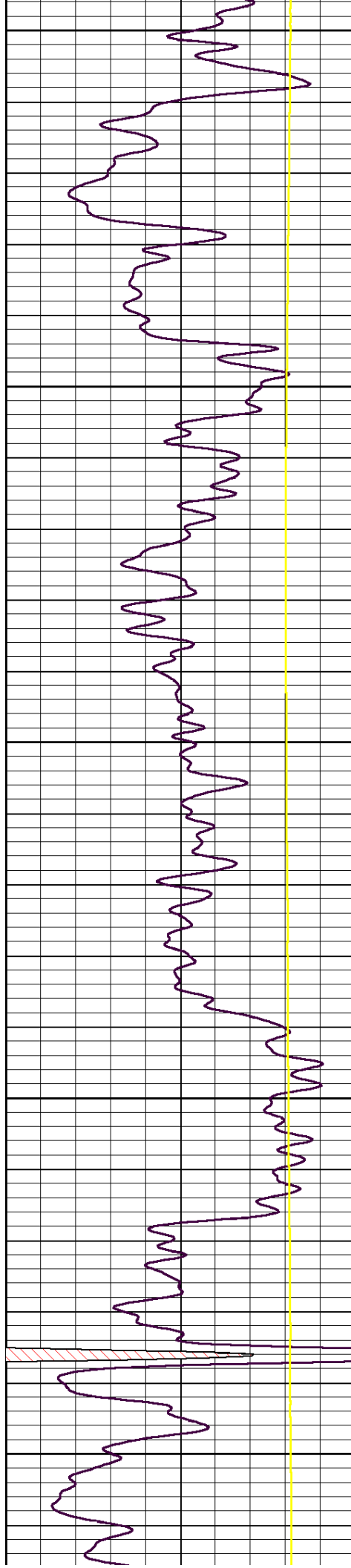
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			(mV)	0	Amplified Amplitude (mV)	100			
			-100 10	0	Pipe Amplitude (mV)	20			

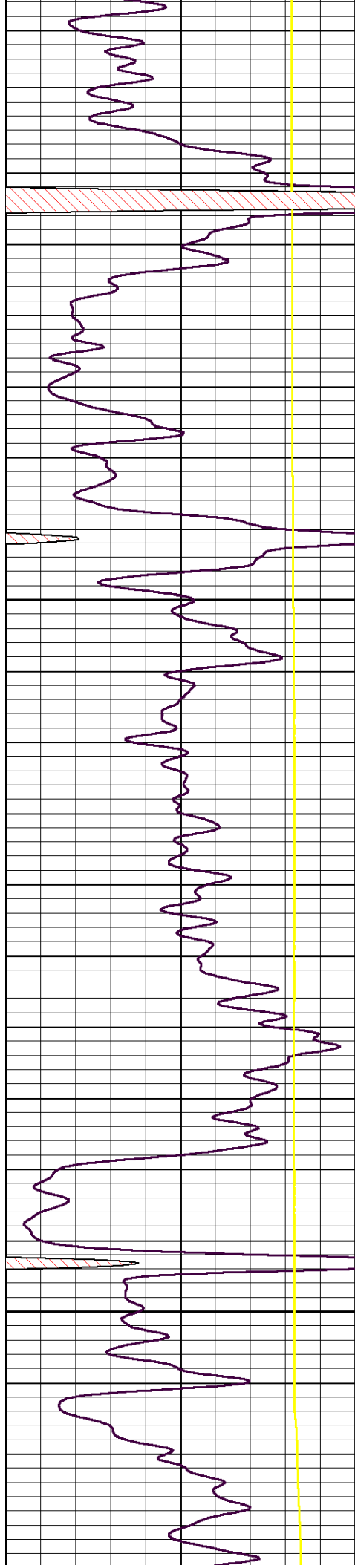










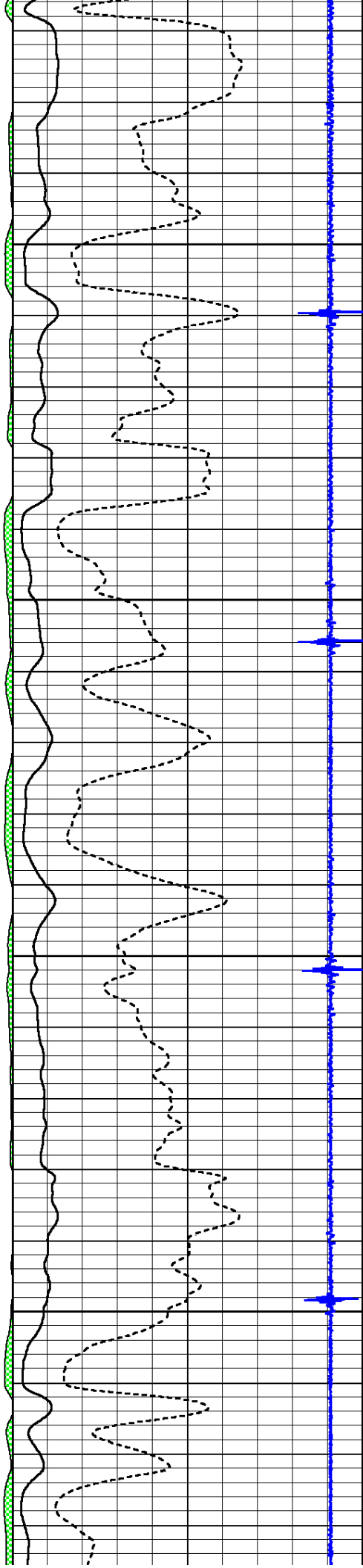


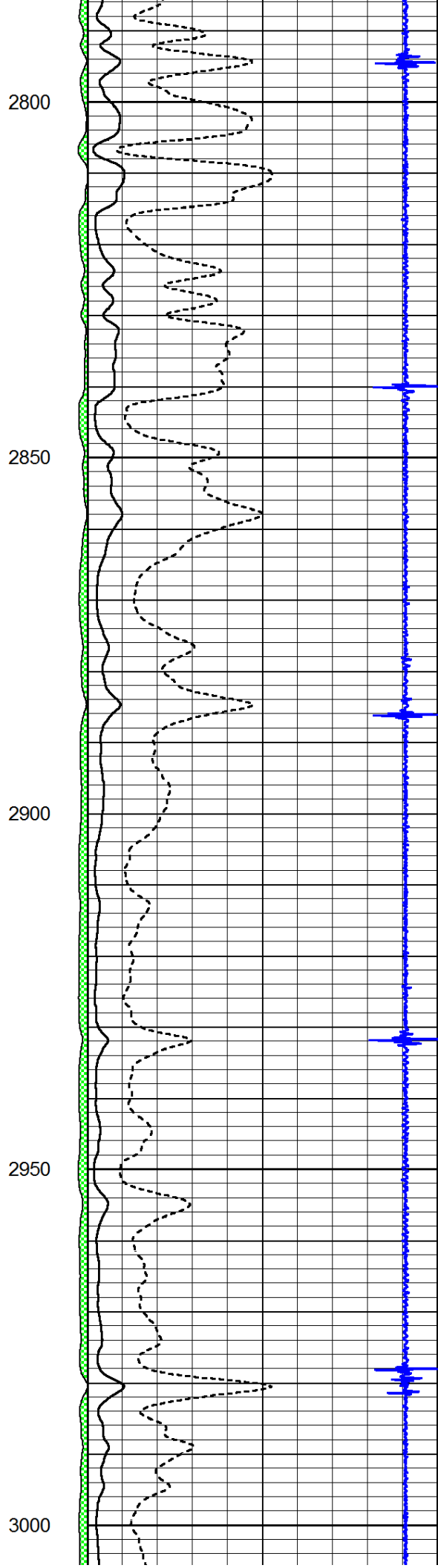
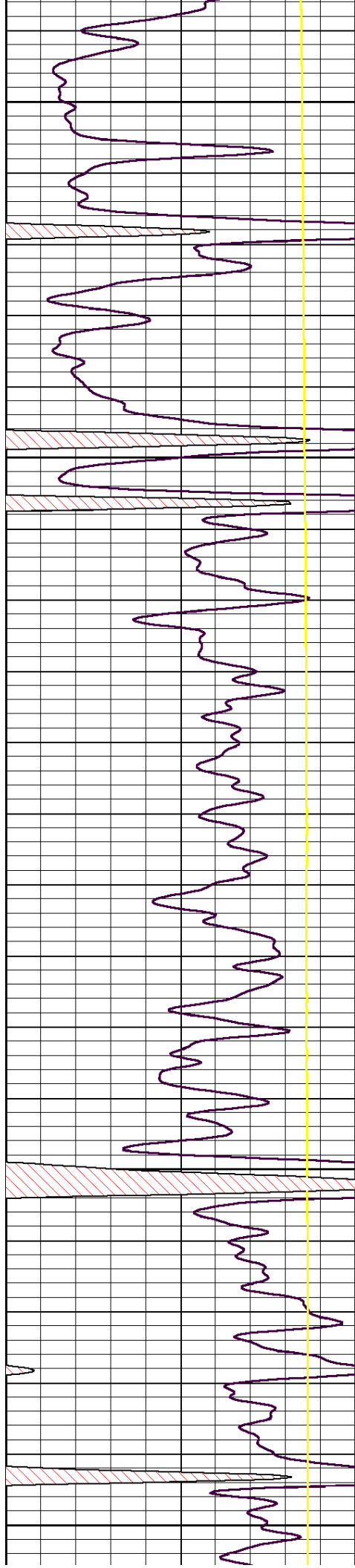
2600

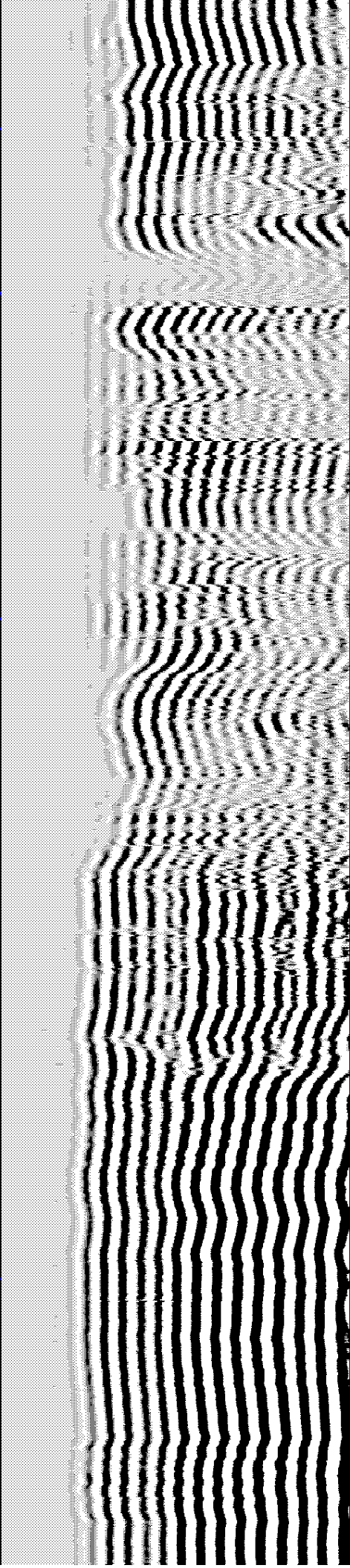
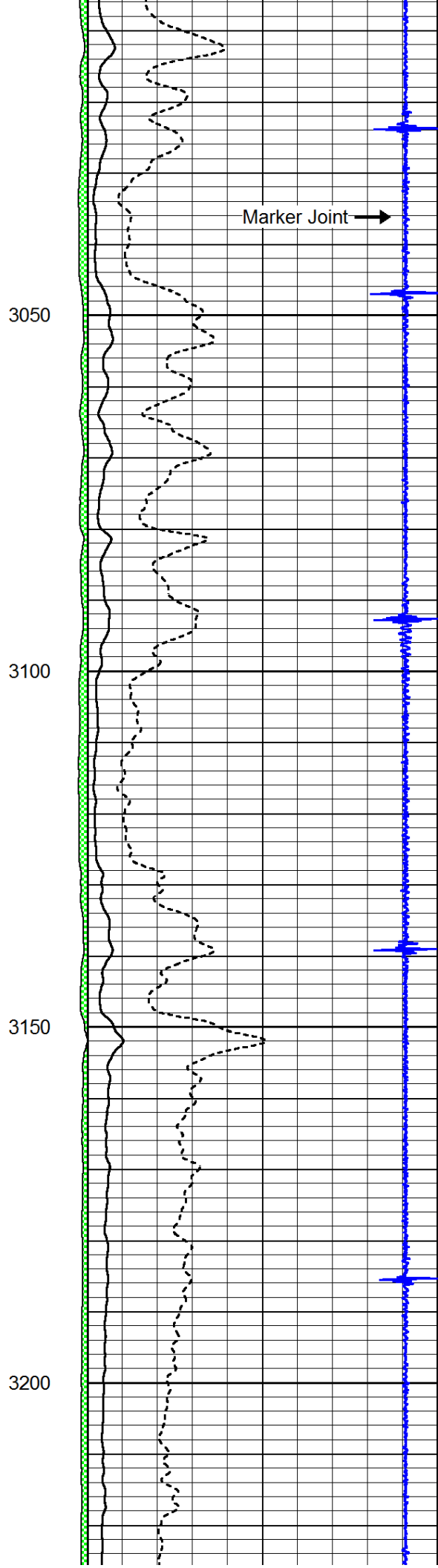
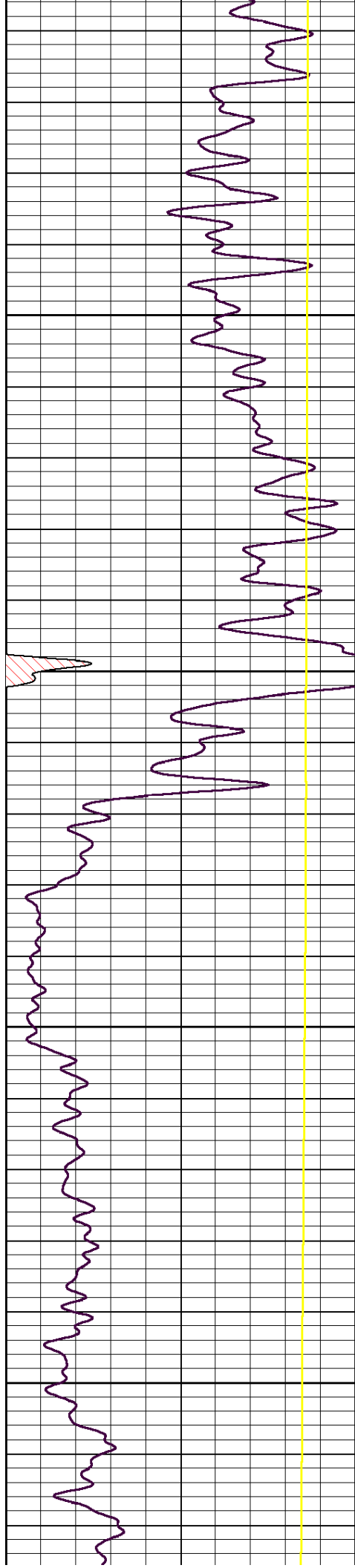
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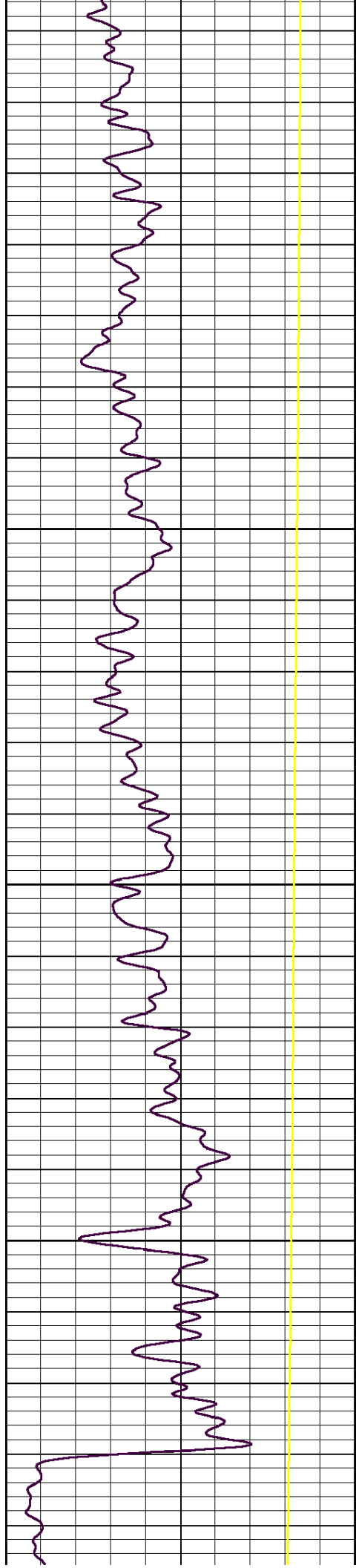
2700

2750







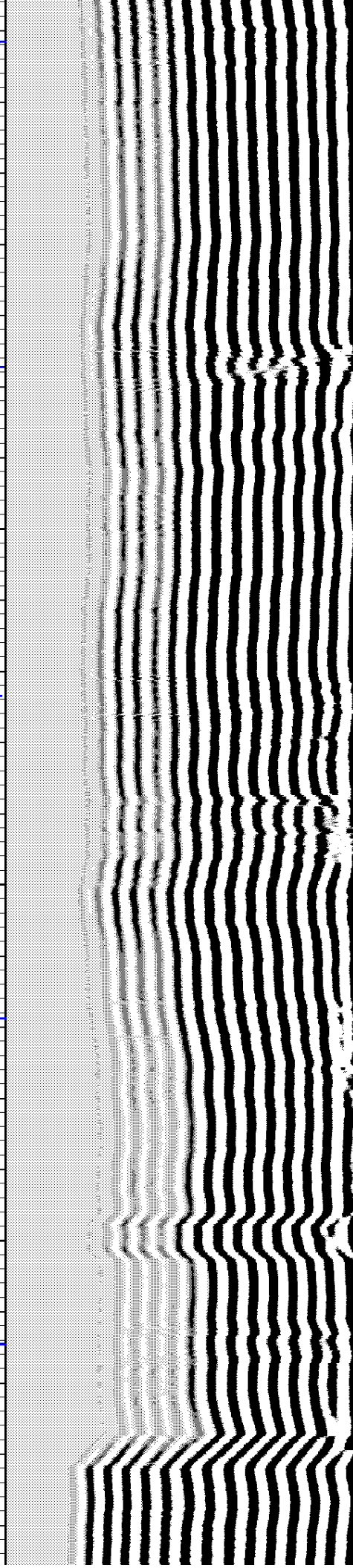
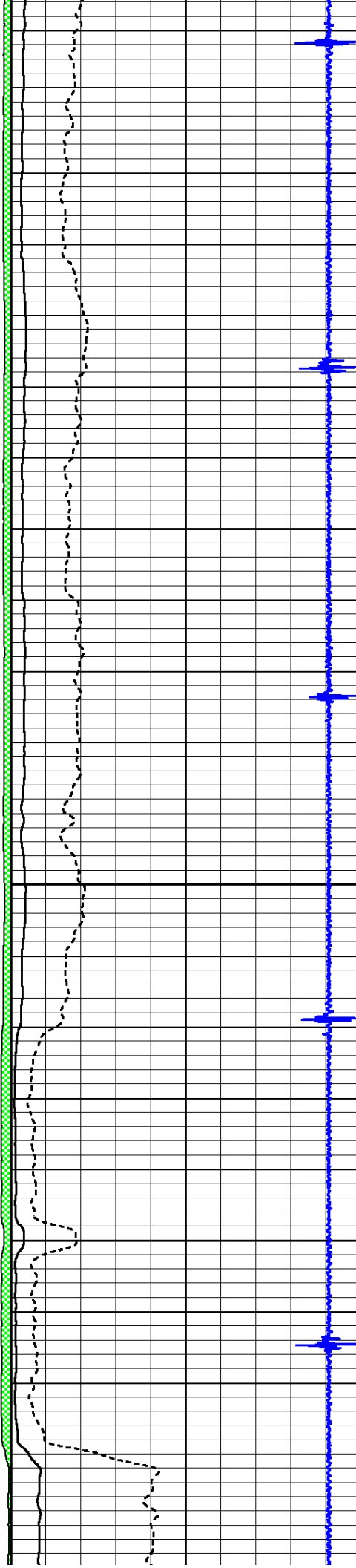


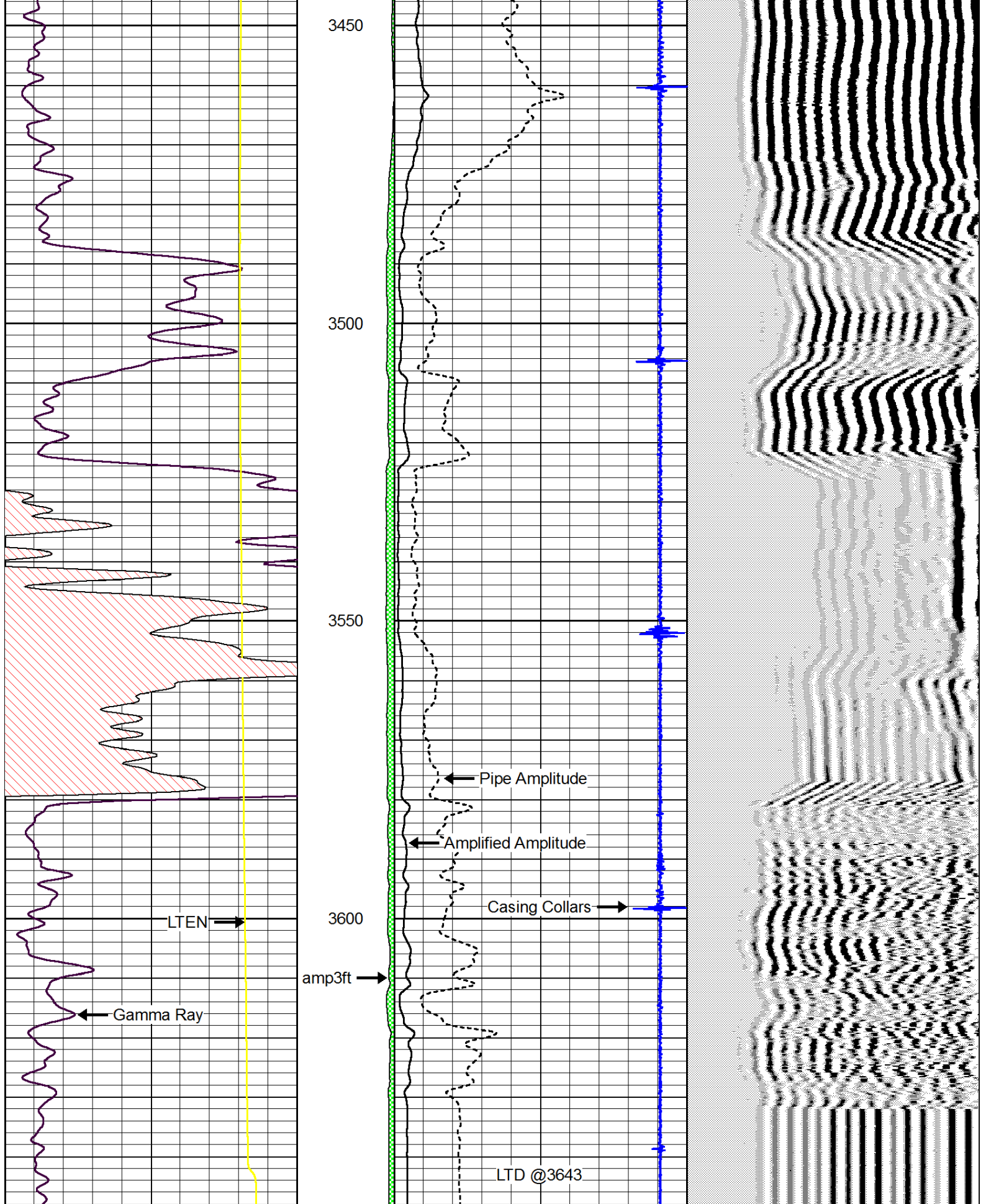
3250

3300

3350

3400





0	Gamma Ray	150	amp3ft	15	Casing Collars	-1.5	200	wvf5ft	1200
			(mV)	0	Amplified Amplitude (mV)	100			
			-100 10	0	Pipe Amplitude (mV)	20			

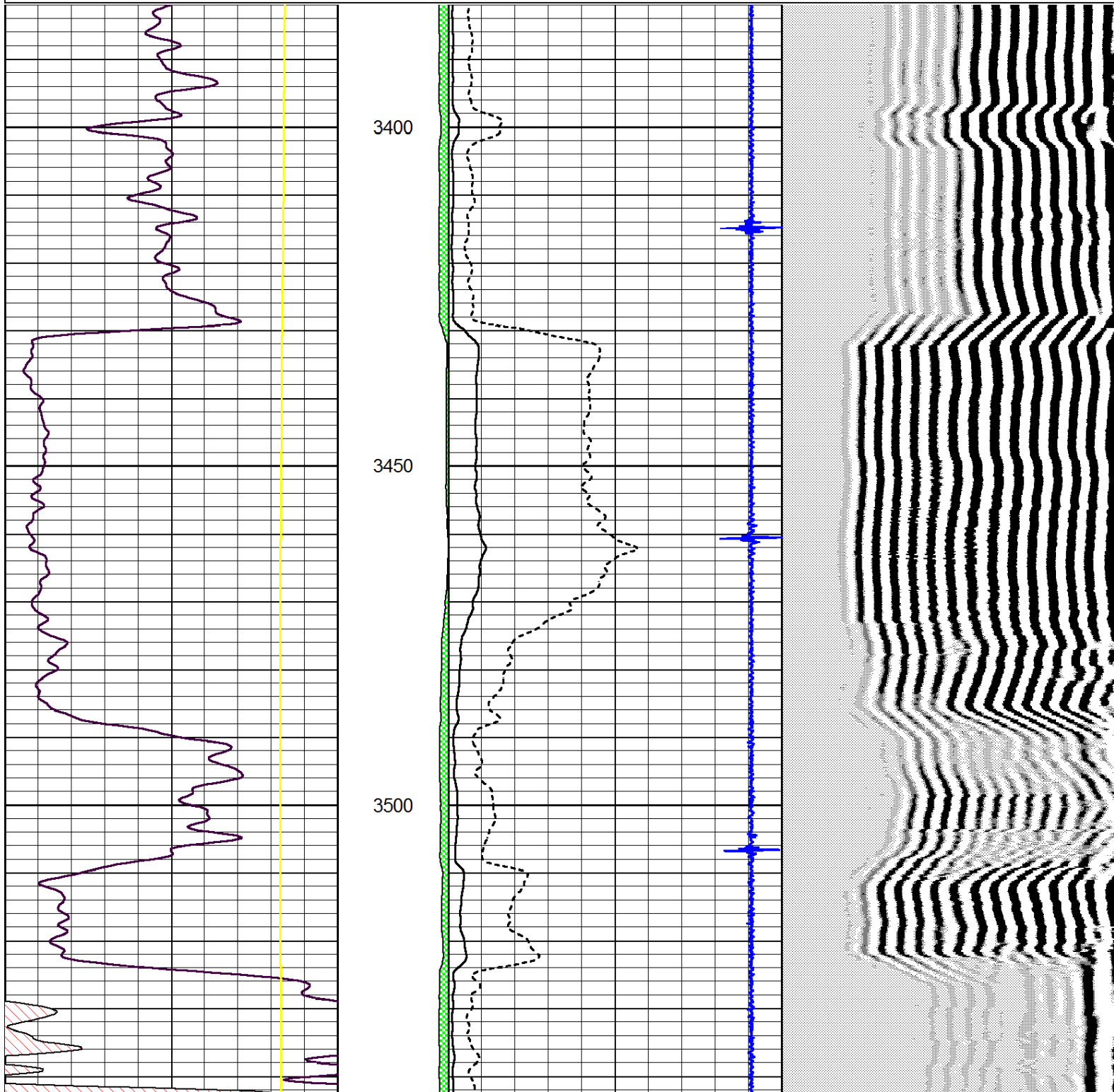


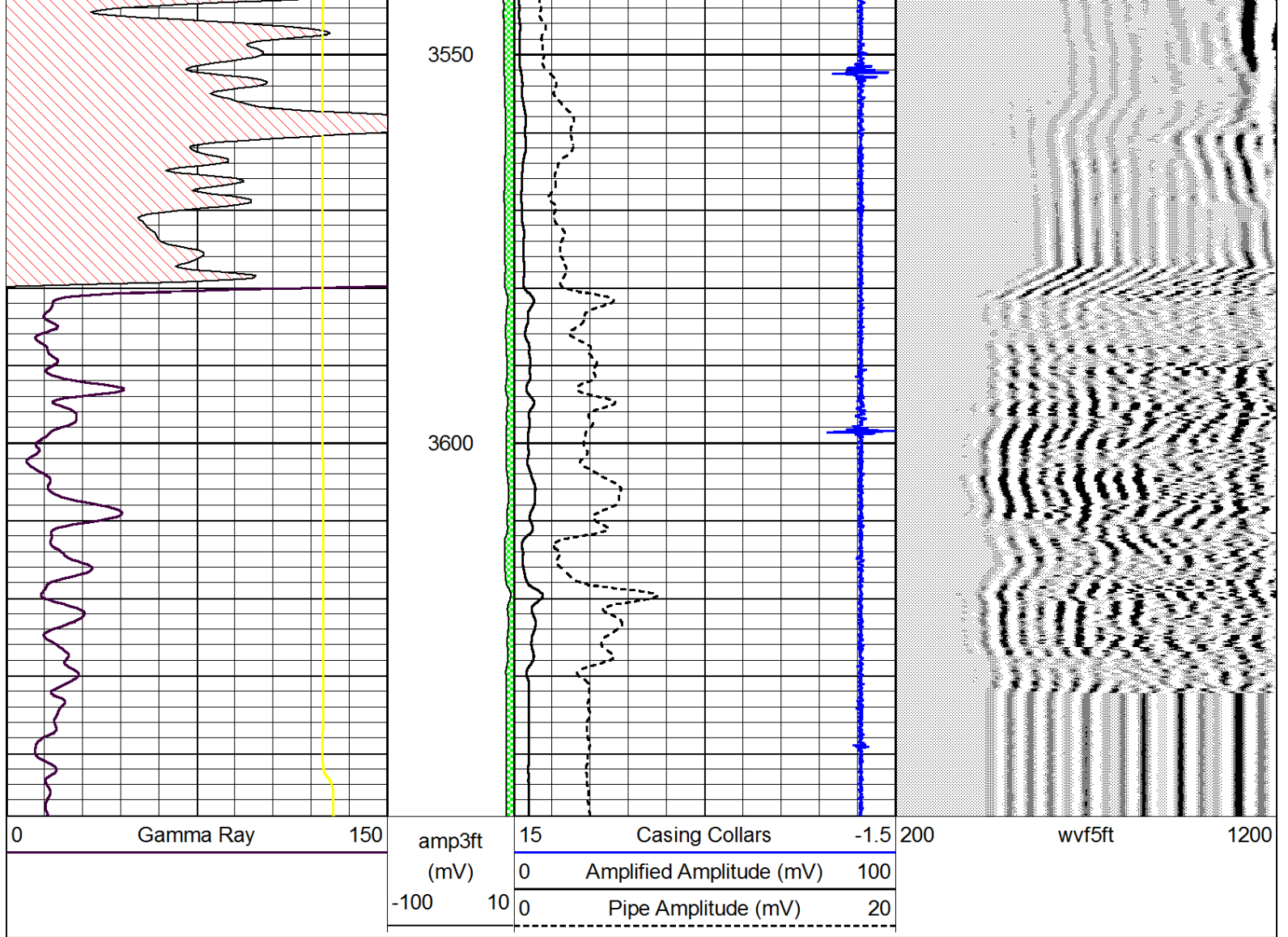
Pioneer Energy Services

Repeat Section

Database File: taos_lfj_2.db
Dataset Pathname: grcbl/pass4
Presentation Format: cbldr
Dataset Creation: Tue Oct 07 13:28:29 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	15	Casing Collars	-1.5	200	wvf5ft	1200
			(mV)	0	Amplified Amplitude (mV)	100			
			-100 10	0	Pipe Amplitude (mV)	20			





Calibration Report

Database File: taos_lfj_2.db
 Dataset Pathname: grcbl/pass5
 Dataset Creation: Tue Oct 07 13:35:53 2014 by Log SCH 111116

Gamma Ray Calibration Report

Serial Number: Probe04
 Tool Model: Probe0004
 Performed: Mon Mar 10 13:10:10 2014

Calibrator Value: 1.0

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.8900 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: 4.5040904
 Tool Model: Probe

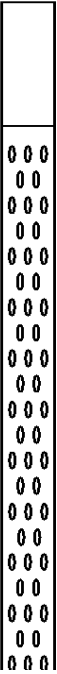
Calibration Casing Diameter: 5.500 in
 Calibration Depth: 1039.733 ft

Master Calibration, performed Tue Oct 07 13:26:42 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.957	0.000	71.921	72.000	1.100
CAL	0.008	1.217				
5'	-0.000	1.073	0.000	71.921	72.000	1.100
SUM						
S1	0.320	0.971	0.000	100.000	153.587	-49.083
S2	-0.004	0.990	0.000	100.000	100.608	0.386
S3	0.000	0.937	0.000	100.000	106.774	-0.034
S4	0.002	0.865	0.000	100.000	115.835	-0.204
S5	0.002	0.878	0.000	100.000	114.176	-0.269
S6	0.005	0.915	0.000	100.000	109.842	-0.520
S7	0.002	0.966	0.000	100.000	103.762	-0.252
S8	0.002	1.009	0.000	100.000	99.332	-0.222

Internal Reference Calibration, performed Sat Jun 14 10:55:06 2008:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	1.217	1.000	0.000

Air Zero Calibration, performed Thu Sep 04 08:00:38 2014:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3FT	11.63		RBT-Probe (4.5040904) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	107.00
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					

