



PIONEER

Pioneer Energy Services

Sector Bond / Gamma Ray
CCL Log

API No.

15-185-23,791-00-00

Company Gra Ex, LLC

Well Bookstore 2RD

Field Rattlesnake North

County Stafford State Kansas

Location

1460' FNL & 380' FWL

Other Services

Sec: 1 Twp: 24S Rge: 14W

Elevation

Permanent Datum Ground Level Elevation 1942'
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1949'
D.F. 1942'
G.L. 1942'

Run Number

One

Date Survey

3/13/2013

Date Cementing

3/9/2013

Type Cementing Operation

Primary

Depth Driller

4250'

Depth Logger

4231

Logged Interval

4230 to 2820

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

////

Calculated Cement Top

2820

Max. Hole Temperature

116

Tool No.

RBT 3-6

Spacing Recorded

3' 5'

Equipment -- Location

18 Hays

Recorded By

Johnathan Vaughn

Witnessed By

Jeff Burk

<<< Fold Here >>>

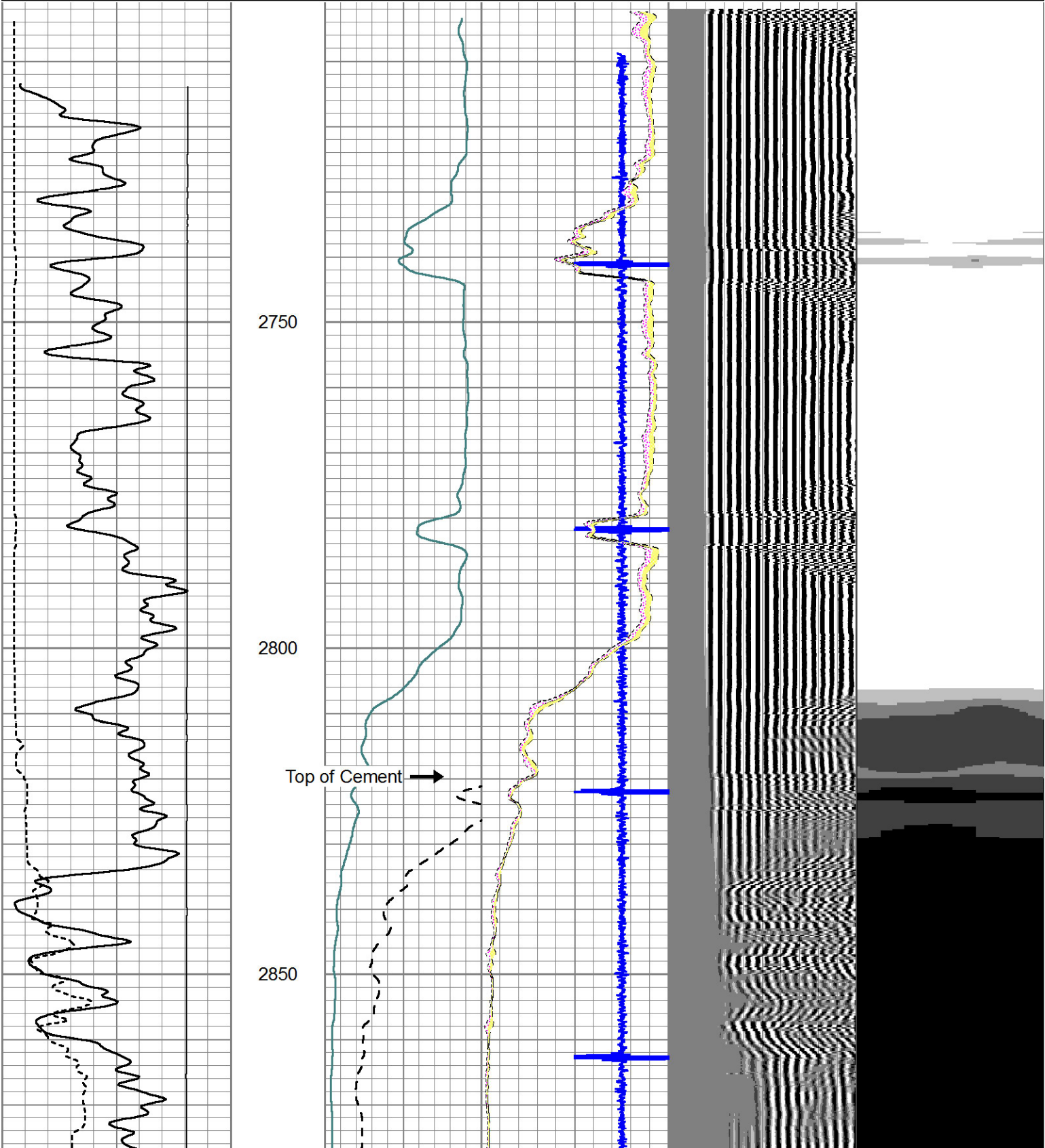
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

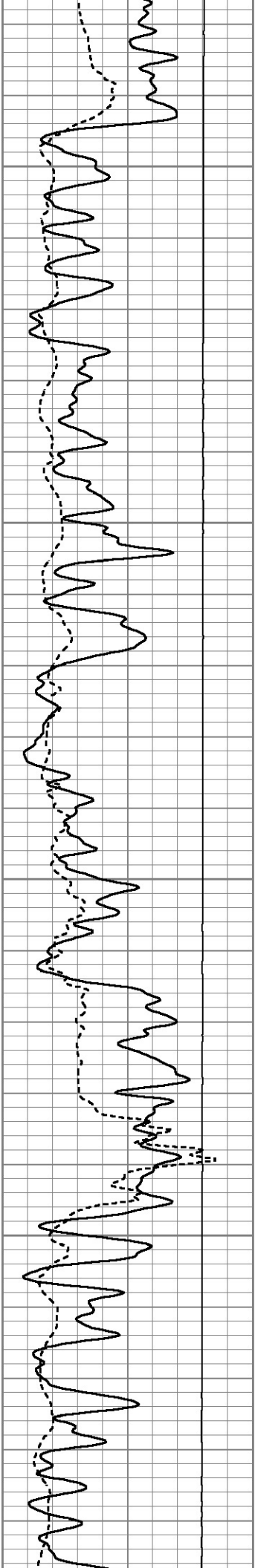
Comments

Thank you for using Pioneer Energy Services
785.625.3858

St John Kansas
4 W on First Street
1/8 S E Into

352	TT5FT (usec)	1362	Amplitude	0	AMPAVG	150	200	VDL	1200	1	Sector Map	8
0	Gamma Ray	150	0 (mV) 100	0	AMPMAX	150				25		75
	LTEN		Amplified Amplitude	0	AMPMIN	150						
150	GR	300	0 (mV) 20	3	CCL	-1						



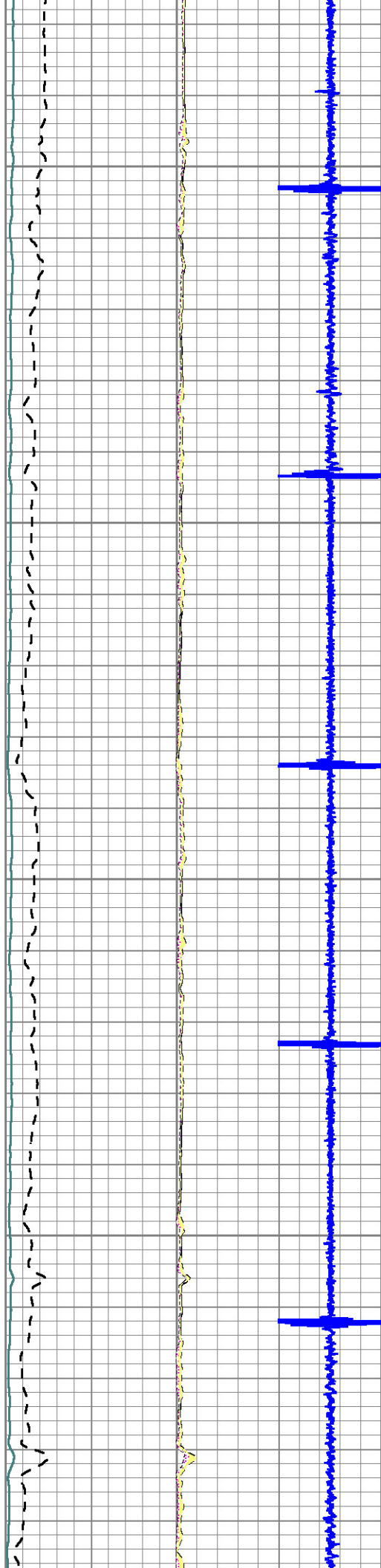


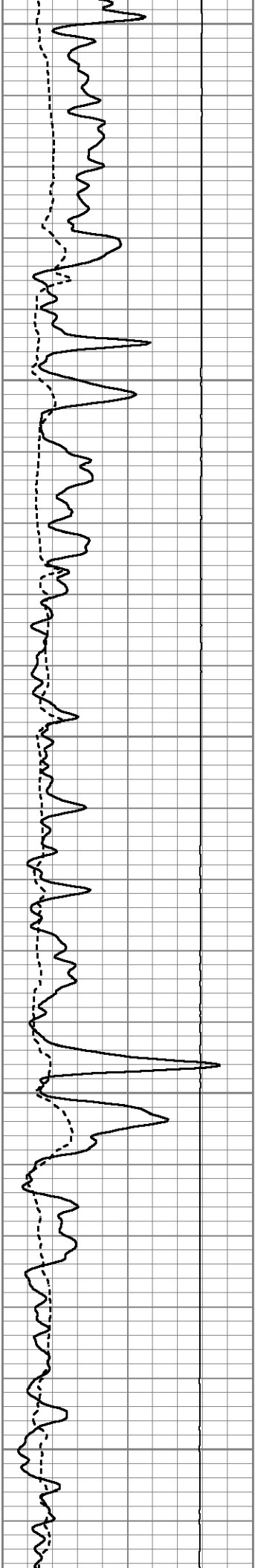
2900

2950

3000

3050





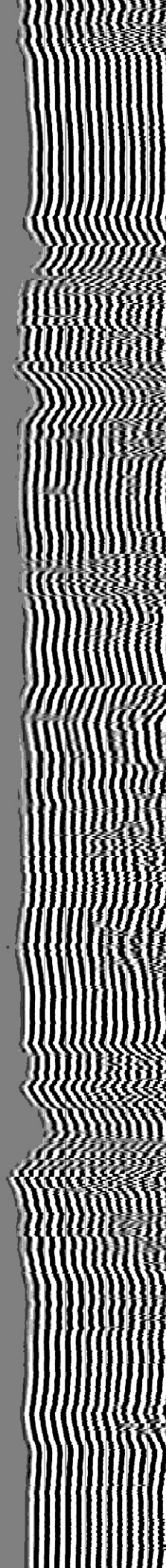
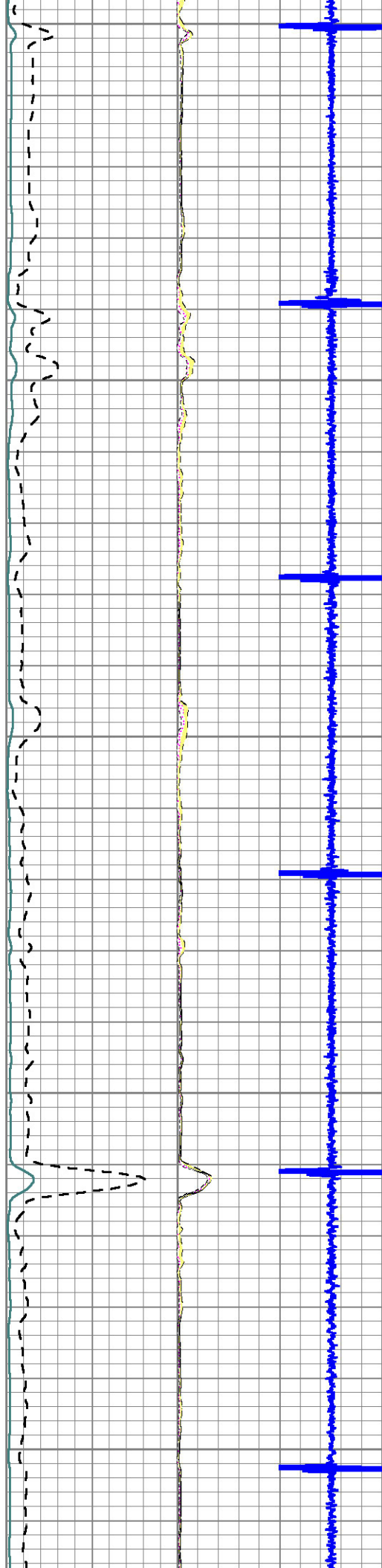
3100

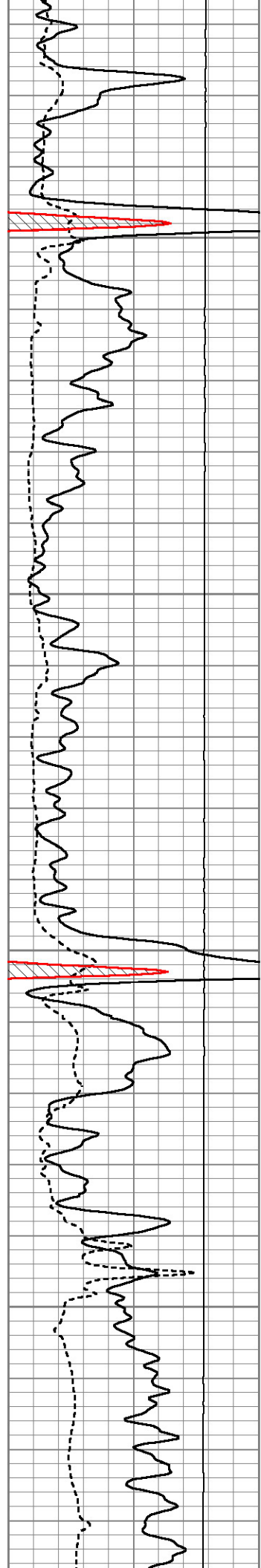
3150

3200

3250

3300



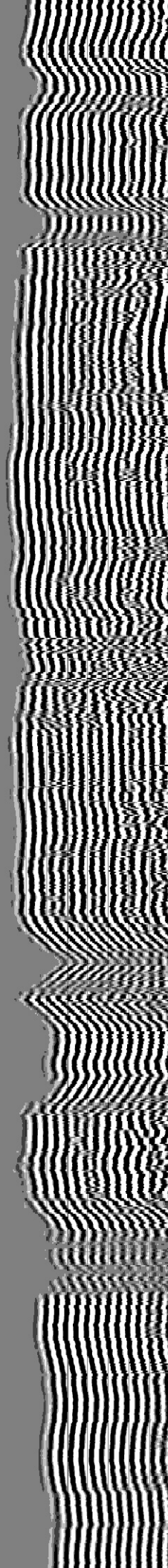
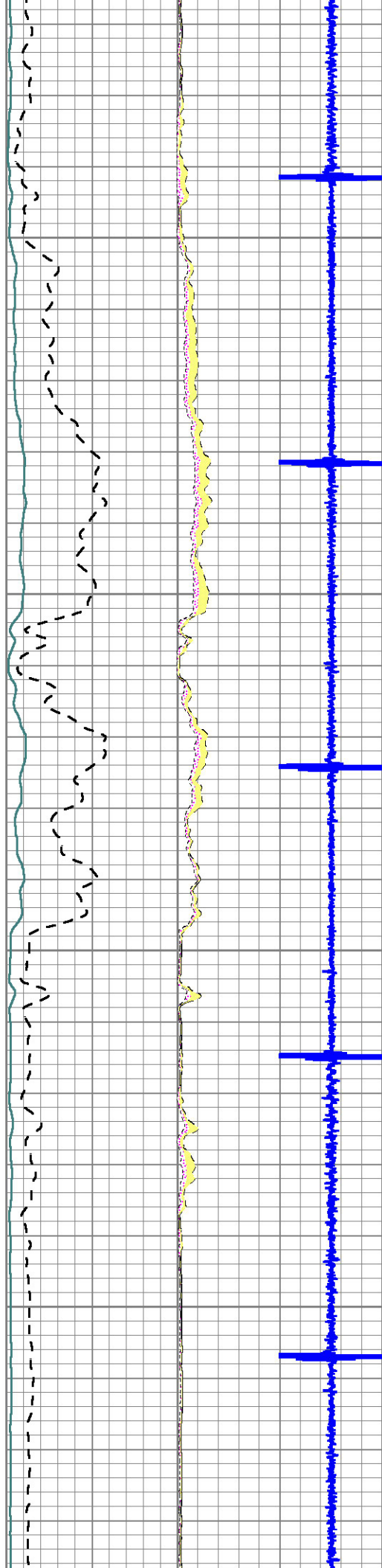


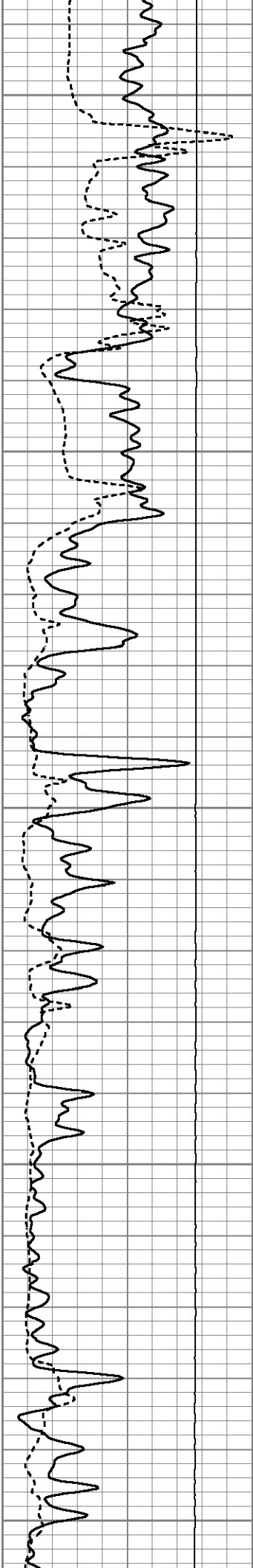
3350

3400

3450

3500





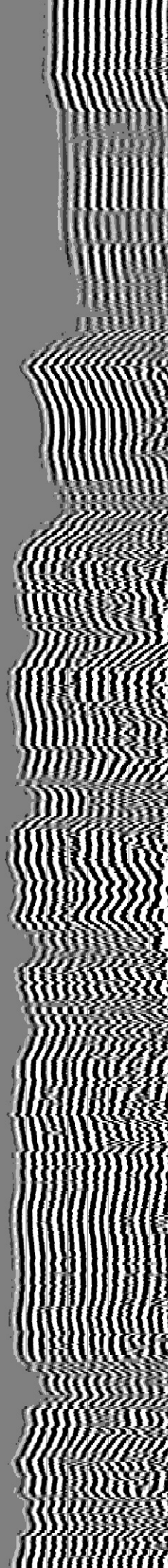
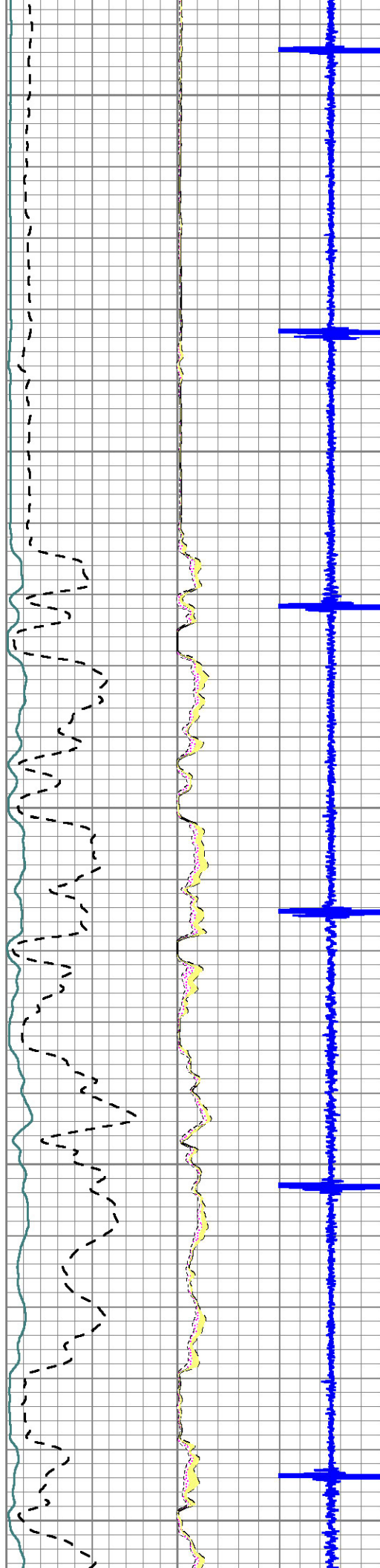
3550

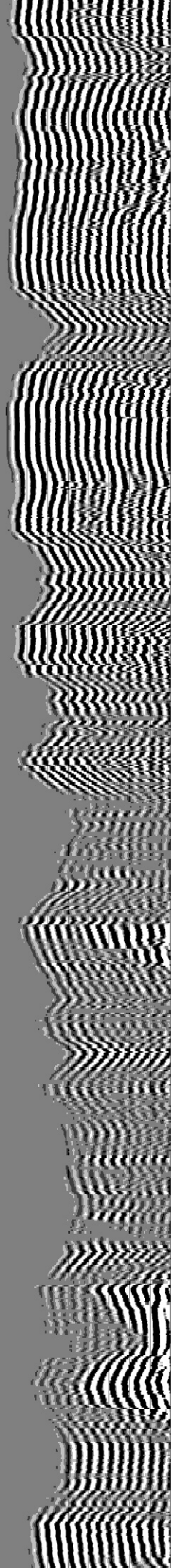
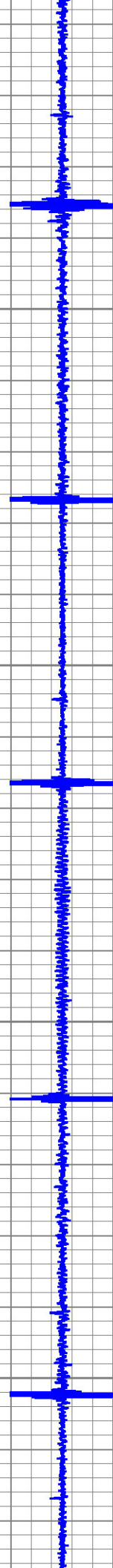
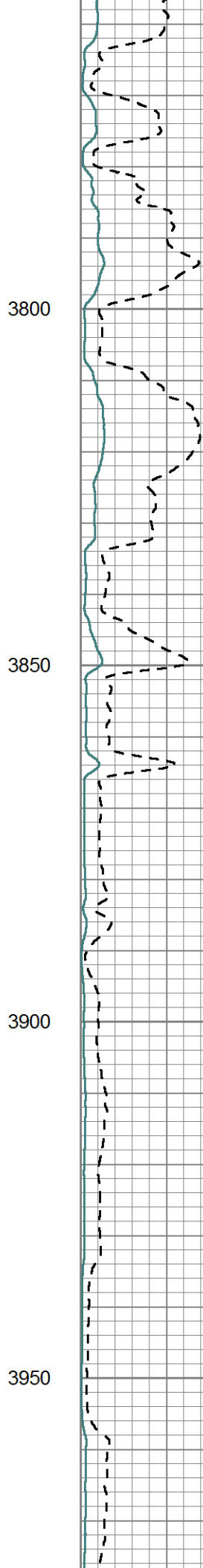
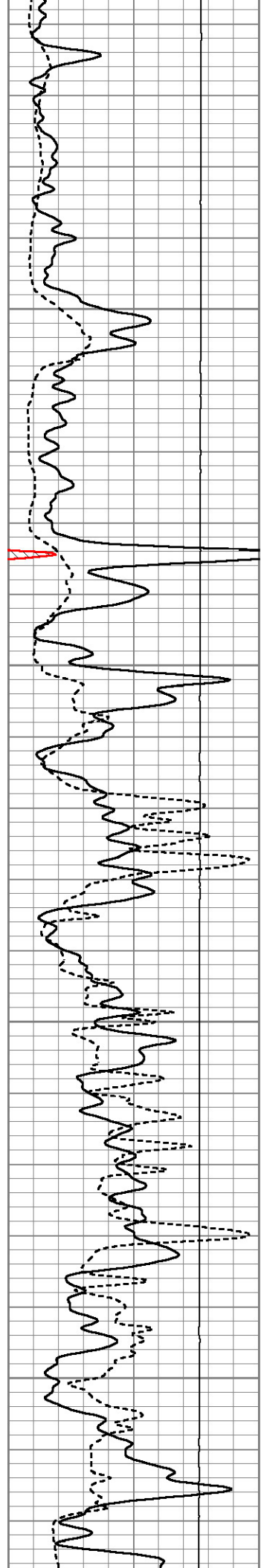
3600

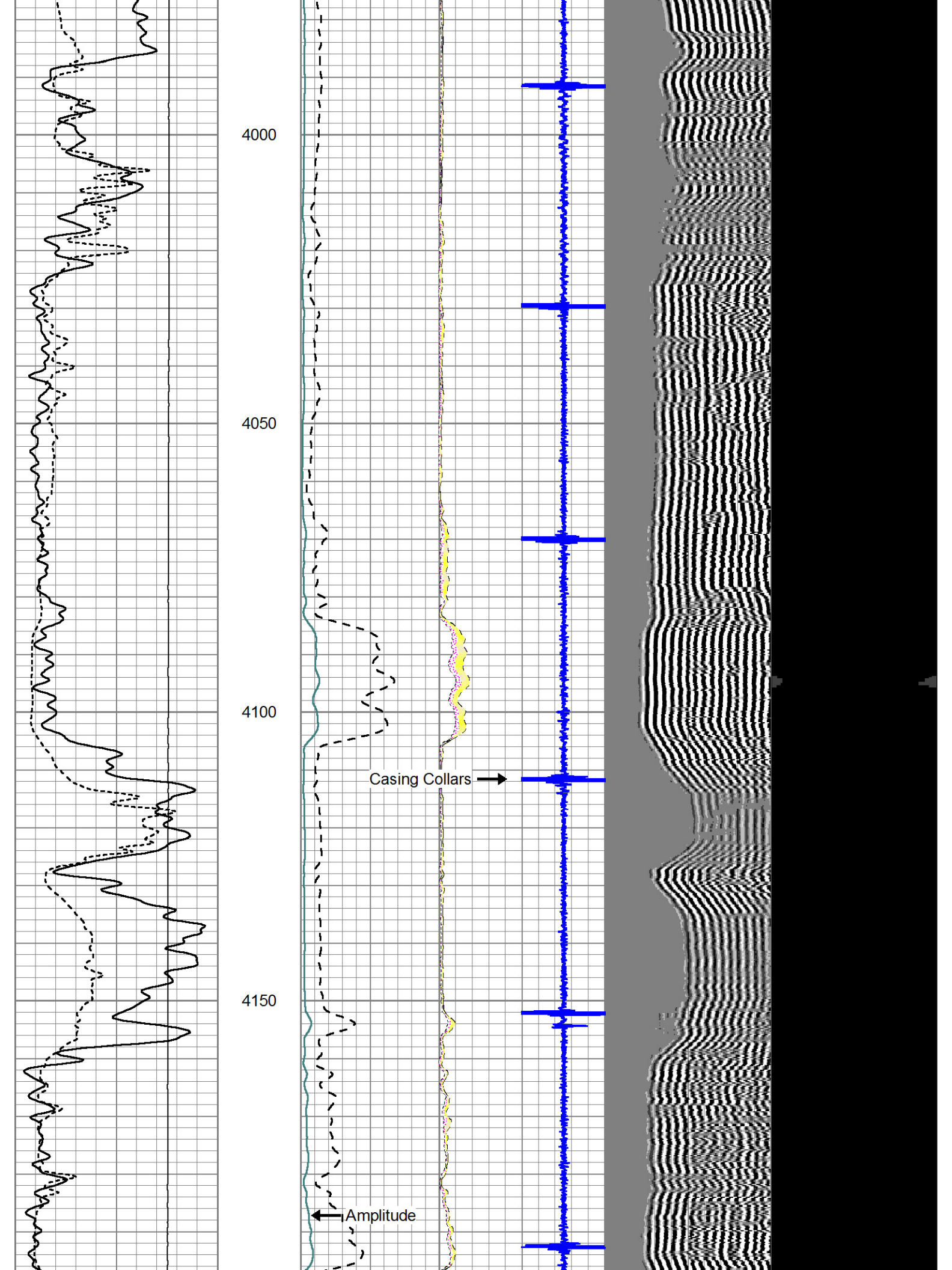
3650

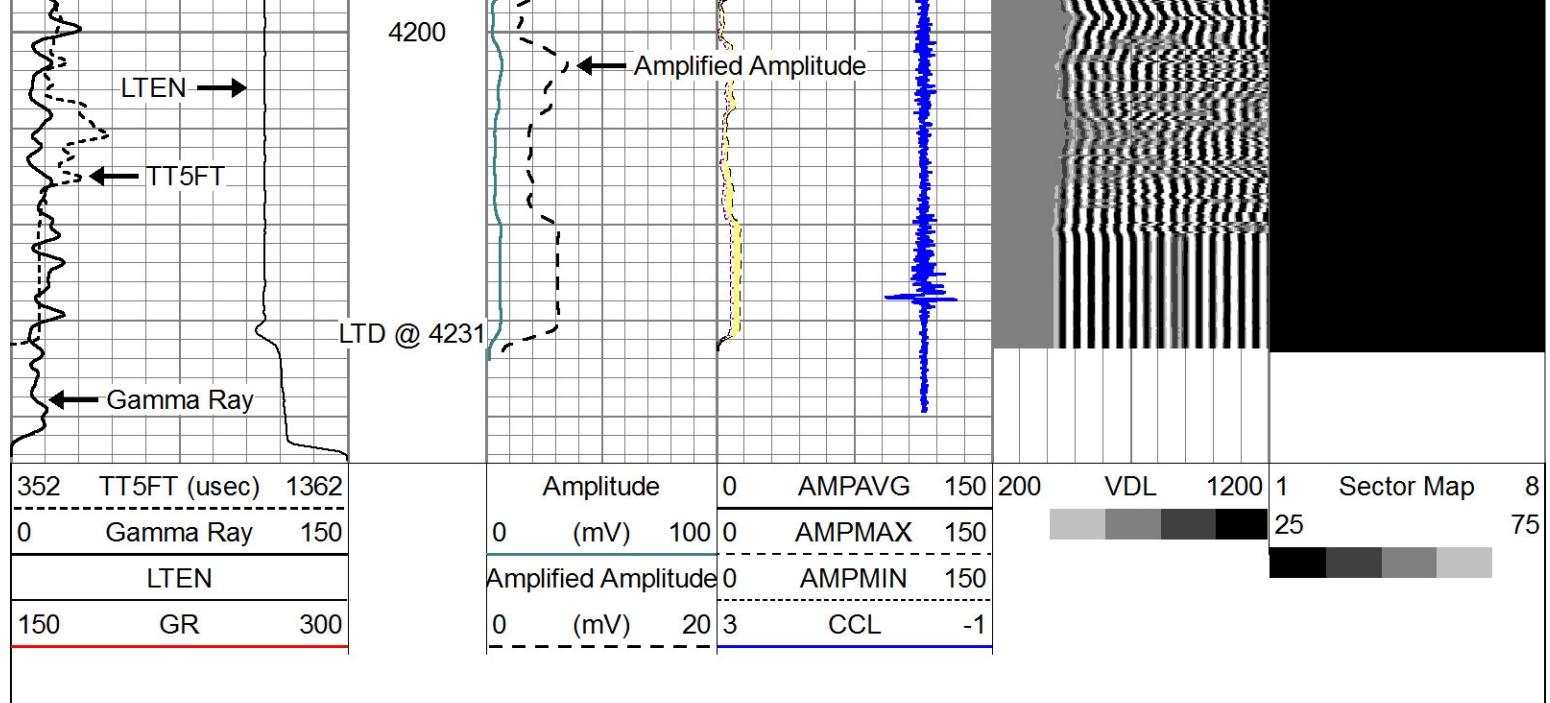
3700

3750









Repeat Section

Database File: gra ex_bookstore_2rd.db
 Dataset Pathname: pass2
 Presentation Format: scbl18
 Dataset Creation: Wed Mar 13 15:05:01 2013 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

