



Sonic Cement Bond Log

API No.

15-015-23909-00-00

Company Noble Petroleum, Inc.

Well Sommers No. 2

Field Plum Grove South

County Butler State Kansas

Location 3922' FSL & 2970'

Sec: 27 Twp: 24 S Rge: 4 E

Potwin Services
2550-53
2557-60

Elevation

Permanent Datum Ground Level Elevation 1369
Log Measured From Kelly Bushing 9' Ft. Above Perm. Datum
Drilling Measured From Kelly BushingK.B. 1378
D.F.
G.L. 1369

Run Number	One	
Date Survey	8/15/2011	
Date Cementing	8/04/2011	
Type Cementing Operation	Primary	
Depth Driller	2619	
Depth Logger	2601	
Logged Interval	2601 to 1400	to
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	1510	
Calculated Cement Top	////	
Max. Hole Temperature	102	
Tool No.	RBT 4-4	
Spacing Recorded	3-5	
Equipment -- Location	14	Hays
Recorded By	A Dreiling	
Witnessed By	Mr. Gary Reed	

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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

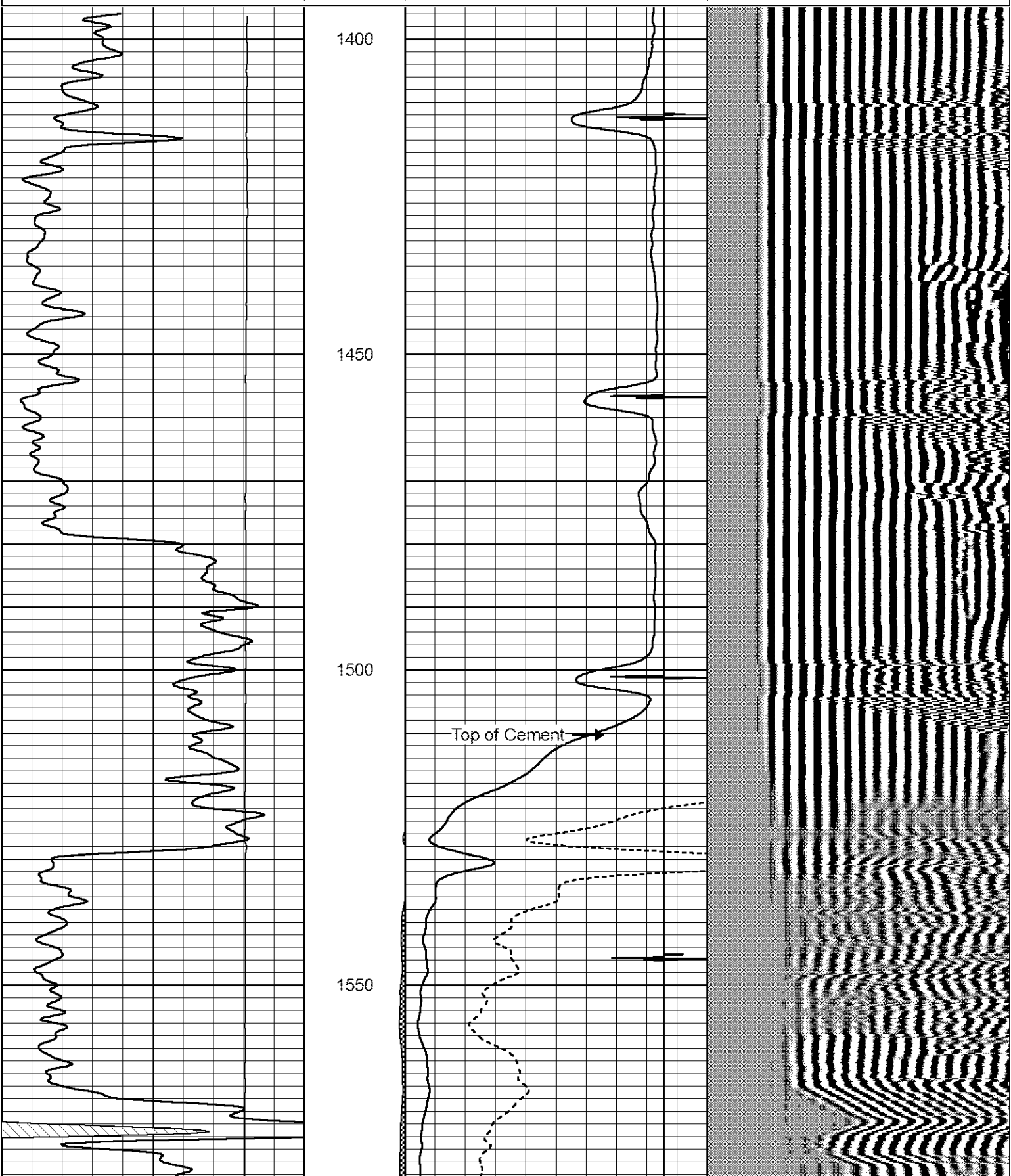
Thank you for using Log-Tech, Inc.
(785) 625-3858
Potwin KS.
1/2 East to River Valley Road,
1/2 N, 1 1/4 E,
South into

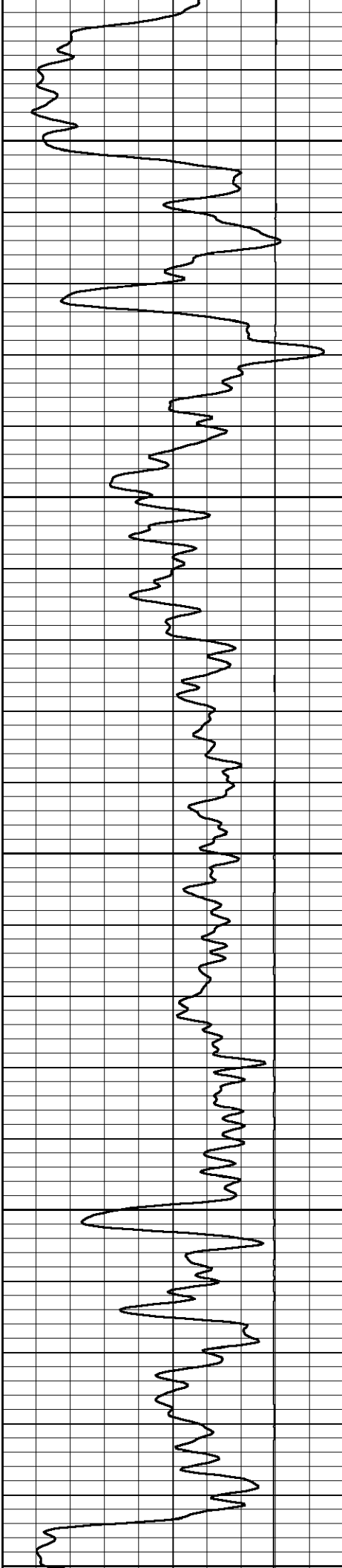


Main Pass

Database File: noble_sommers_no.db
Dataset Pathname: grcbl/pass6.1
Presentation Format: cbldr
Dataset Creation: Mon Aug 15 09:34:55 2011 by Calc SCH 110223
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	3	Casing Collars	-0.5	200	wvf5ft	1200
2000	LTEN (lb)	0	(mV)	0	Pipe Amplitude (mV)	100			
			-100 10	0	Amplified Amplitude (mV)	20			





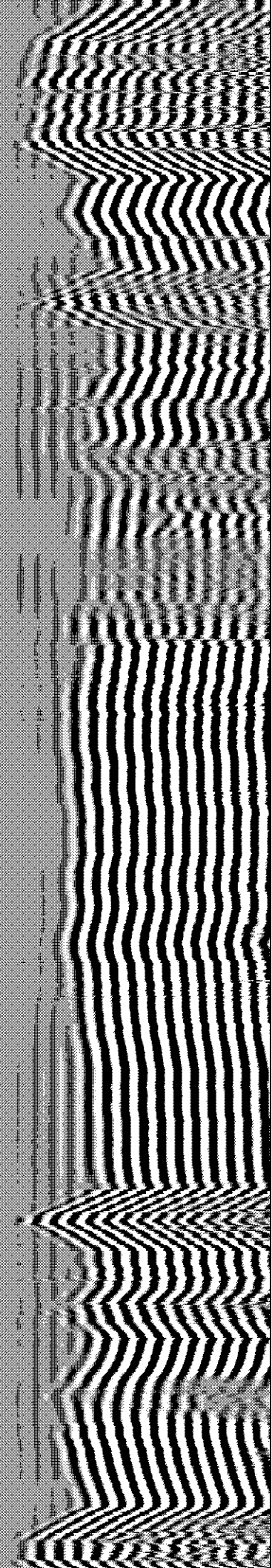
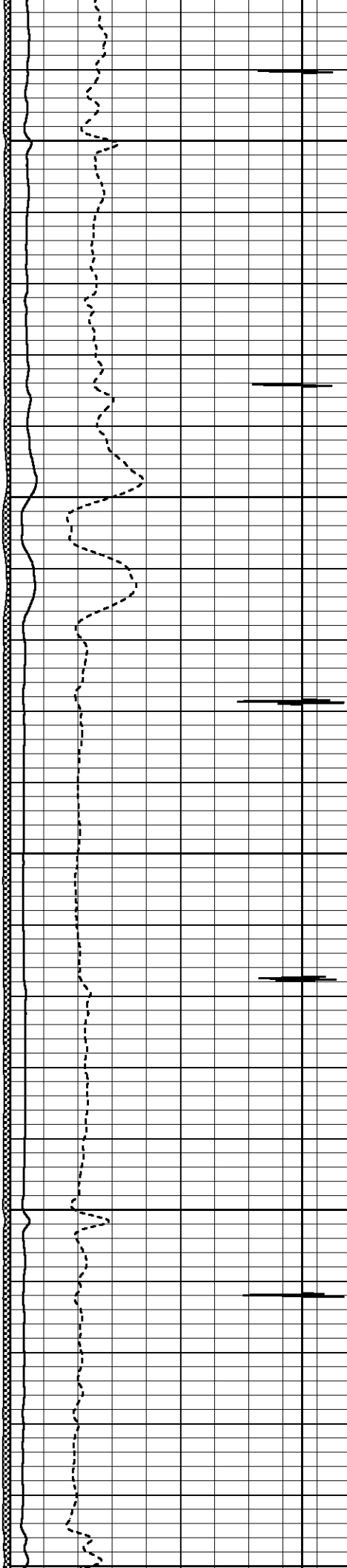
1600

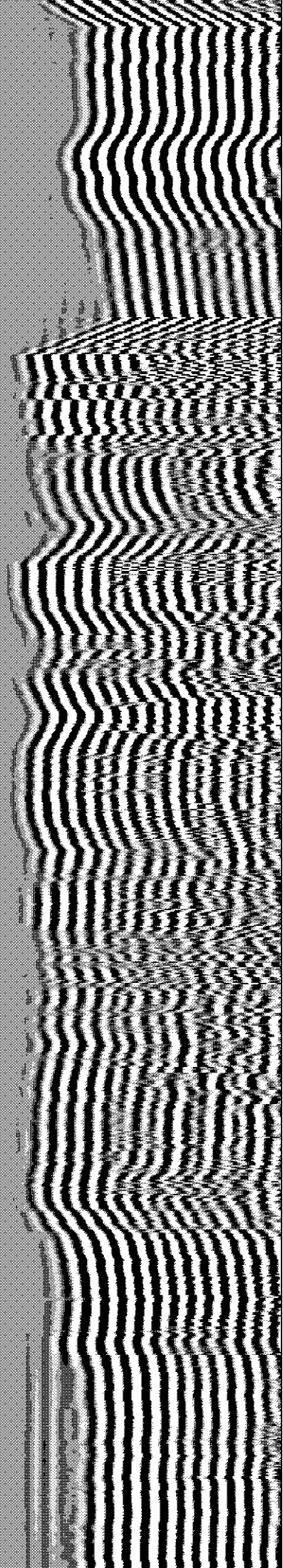
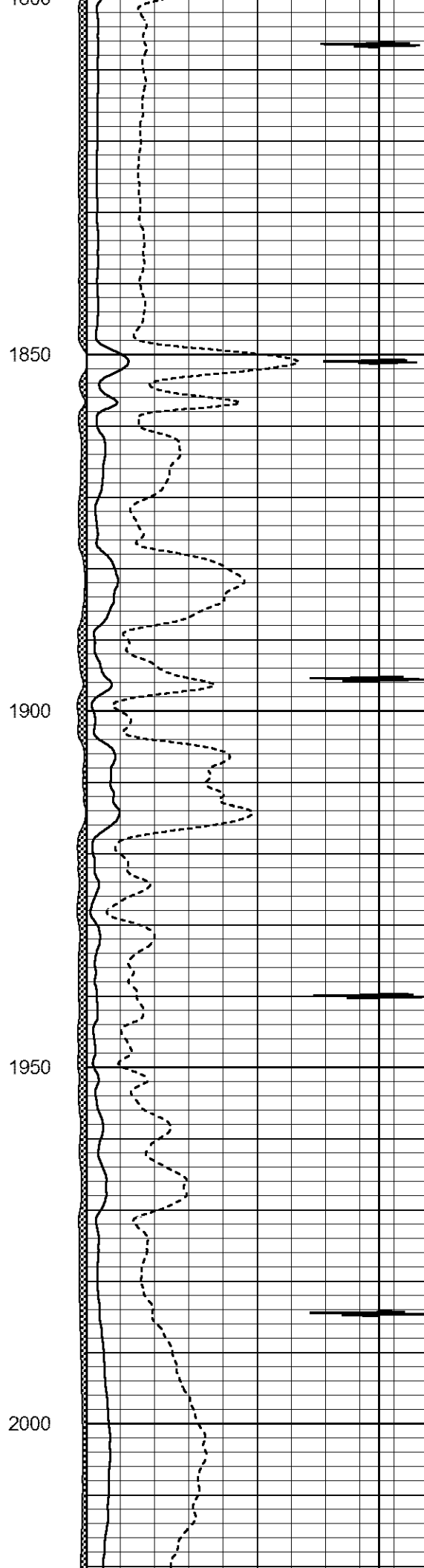
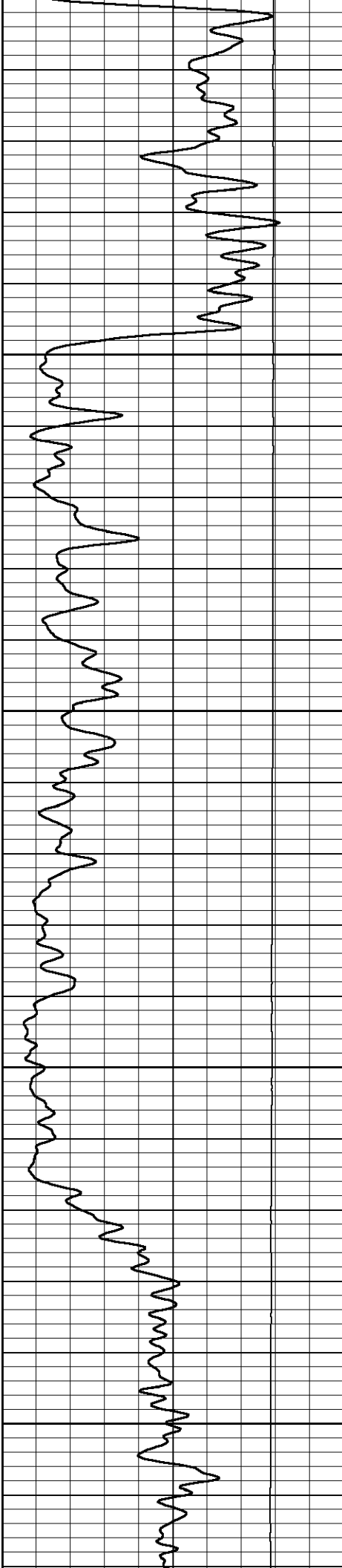
1650

1700

1750

1800





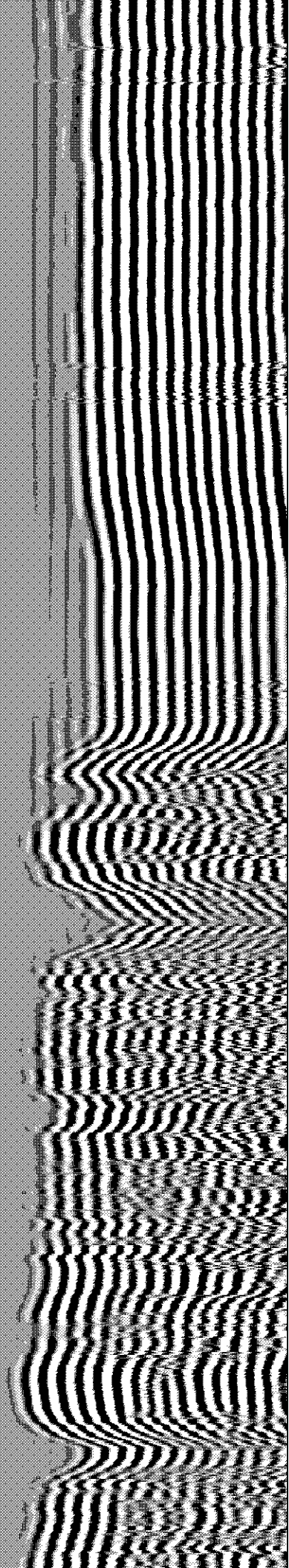


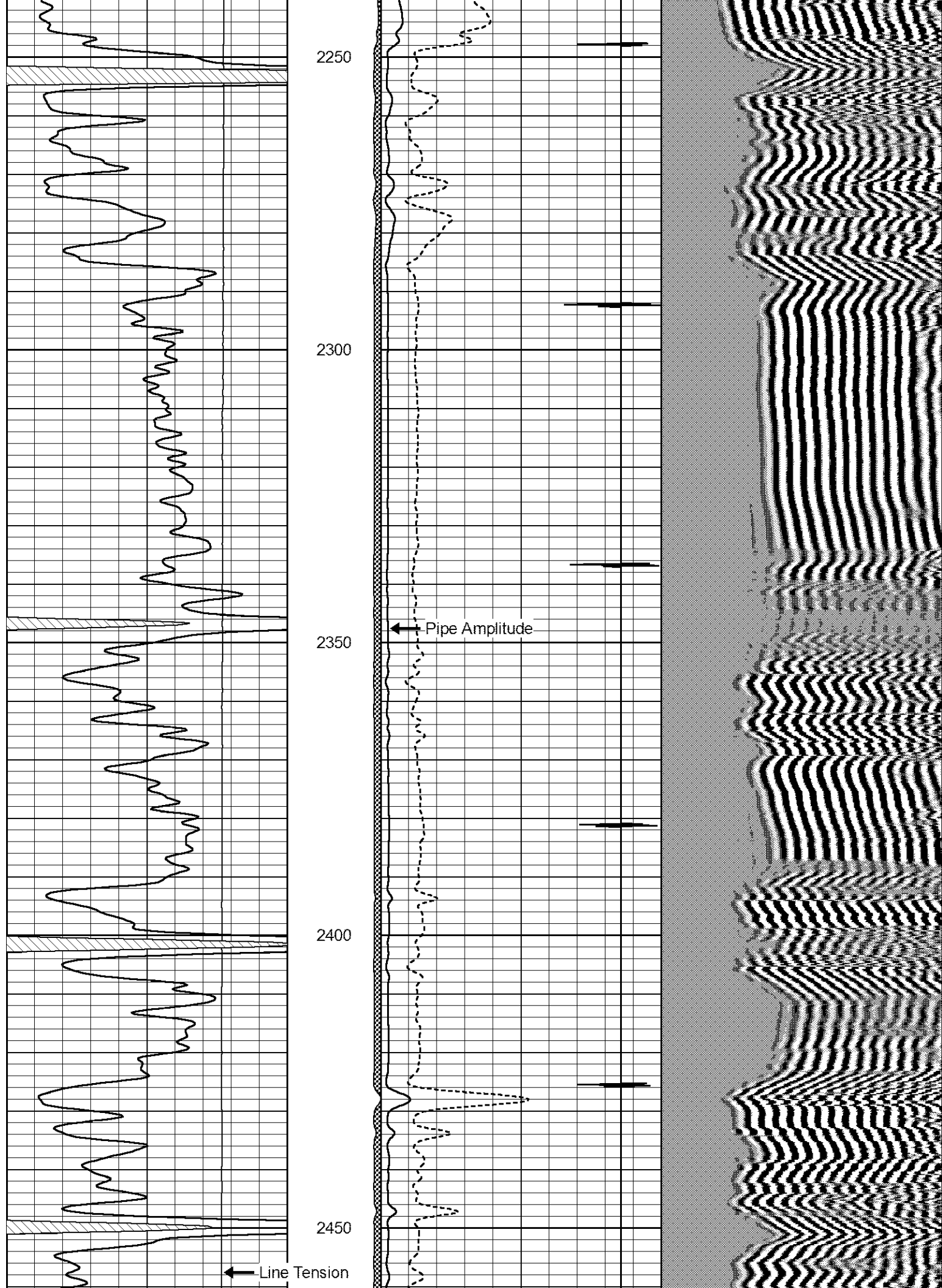
2050

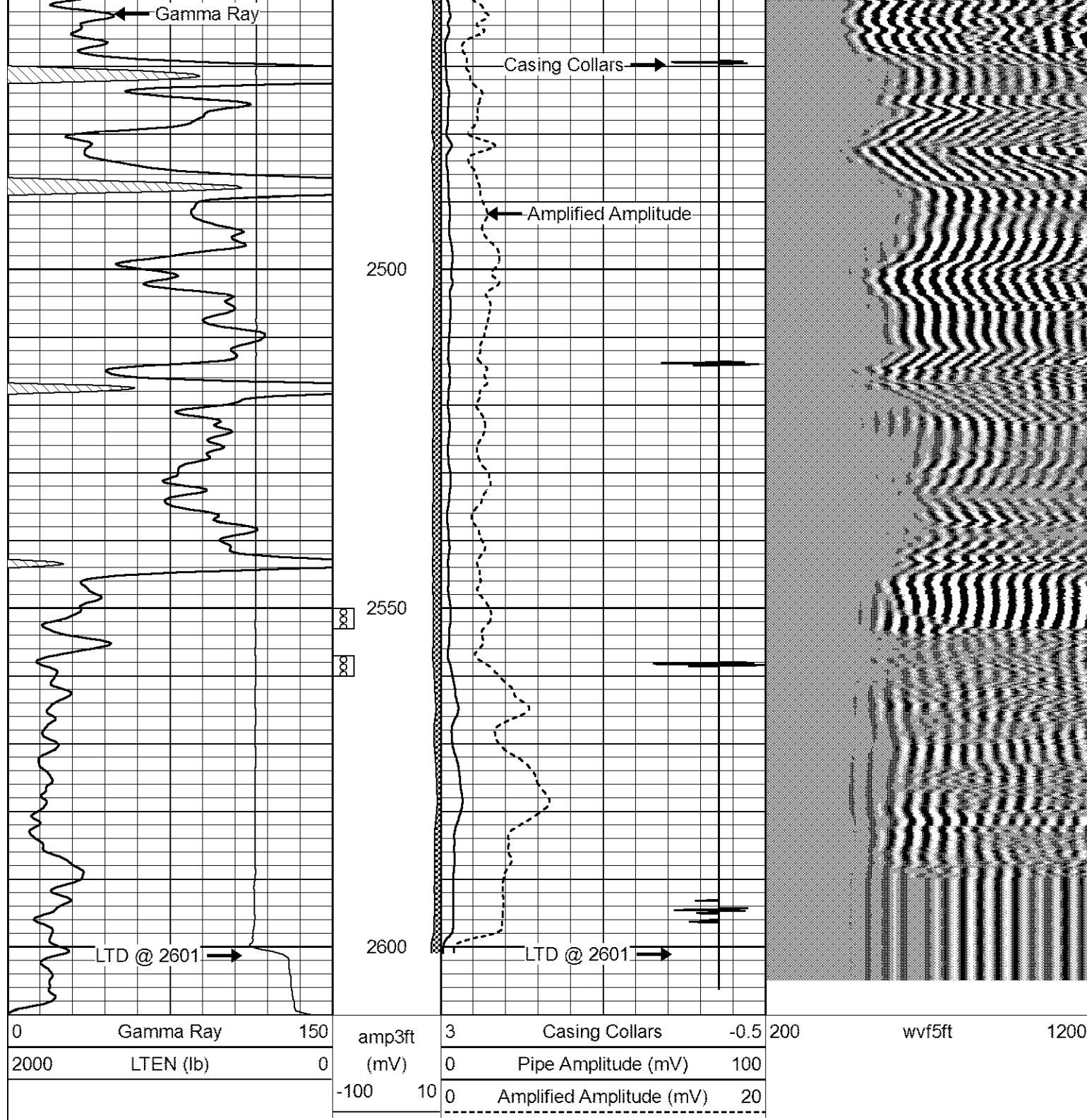
2100

2150

2200







LOG-TECH

Repeat Section

Database File: noble_sommers_no.db
 Dataset Pathname: grcbl/pass5.1
 Presentation Format: cbldr
 Dataset Creation: Mon Aug 15 09:16:35 2011 by Calc SCH 110223
 Charted by: Depth in Feet scaled 1:240

