NABORS
COMPLETION & PRODUCTION SERVICES CO.

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company NOBLE ENERGY INC.
Well NIX P28-69HN
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY INC.
Well	NIX P28-69HN
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 05123346580000
NW NE
BHL: 75' FNL & 2105' FWL
SEC 28 TWP 3N RGE 67W

Other Services

Permanent Datum	GL	Elevation	4794
Log Measured From	KB 24'		
Drilling Measured From	KB		

Elevation
K.B. 4818
D.F. 4817
G.L. 4794

Date	October 11, 2012	
Run Number	One	
Depth Driller	10,938	
Depth Logger	7167	
Bottom Logged Interval	7166	
Top Log Interval	Surface	
Casing Size	7.00"	
Type Fluid	Water	
Max. Recorded Temp.	213 deg F	
Estimated Cement Top	1600 est.	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	4367	4515
Tool Size / ID Number	2.75 Probe 101010	2.75 Probe 110802
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	B. Mansfield	

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36 lb/ft J-55	Surface	665.1
Prot. String				
Production String	7.00"	26 lb/ft P-110	Surface	7423.1
Liner	4.50"	11.6 lb/ft P-110	7278.6	10,938

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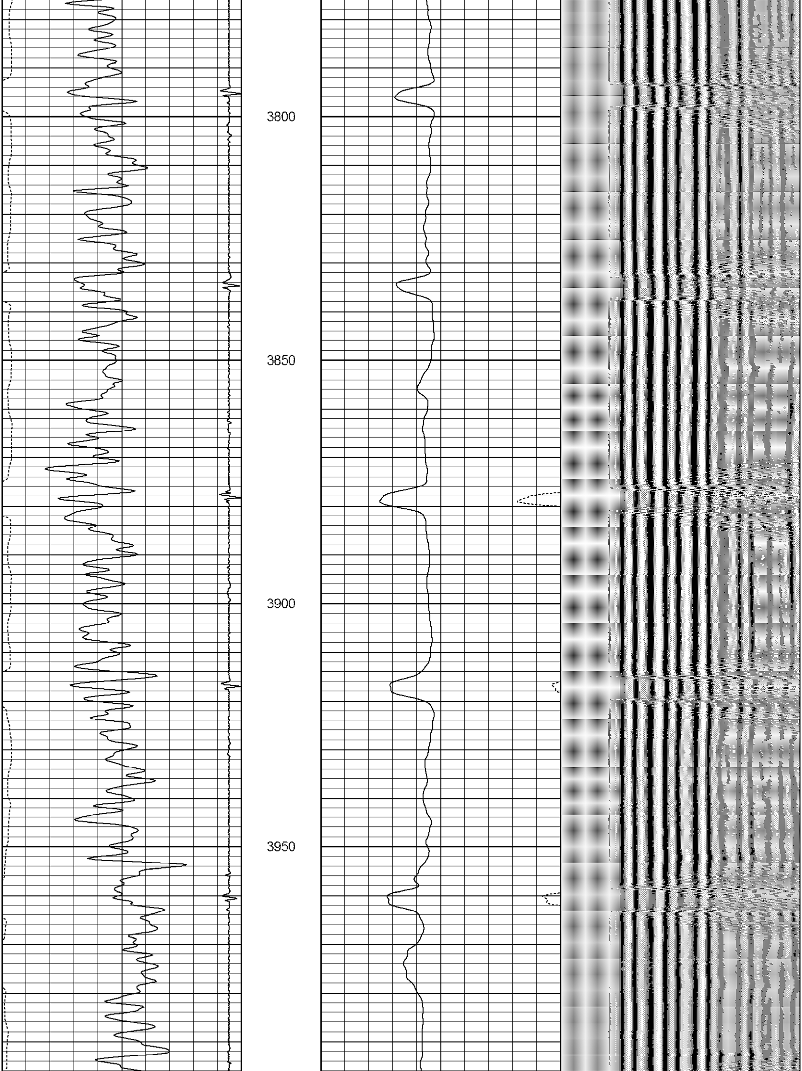
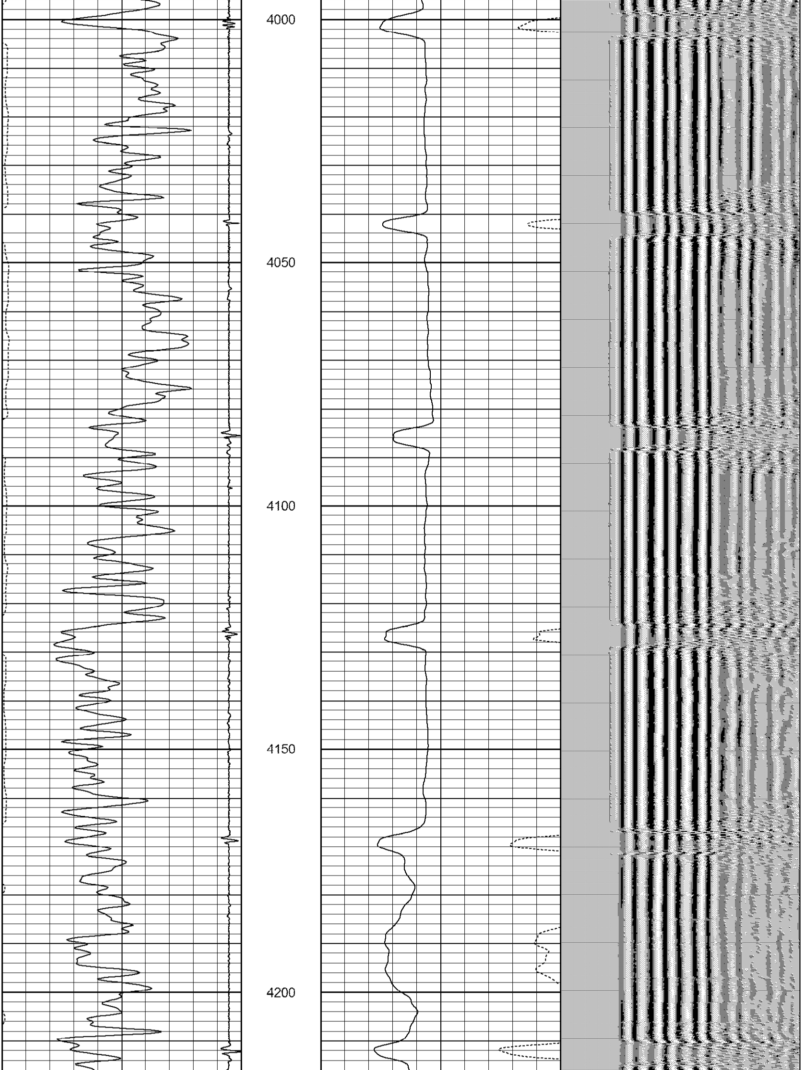
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

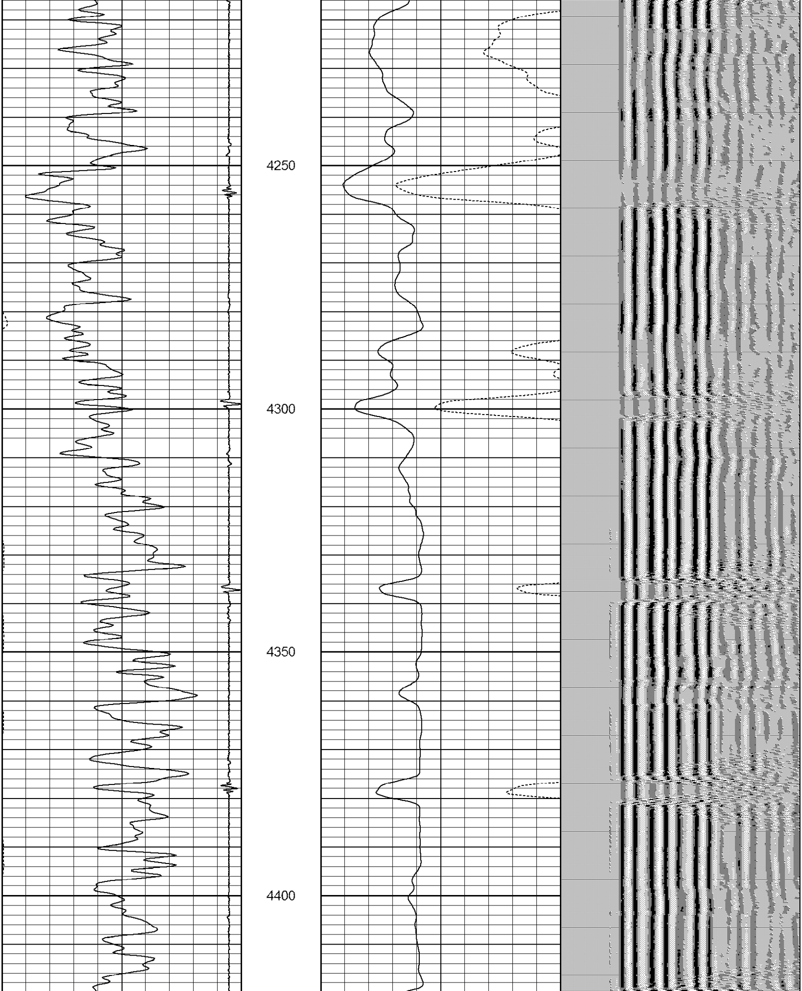
Comments

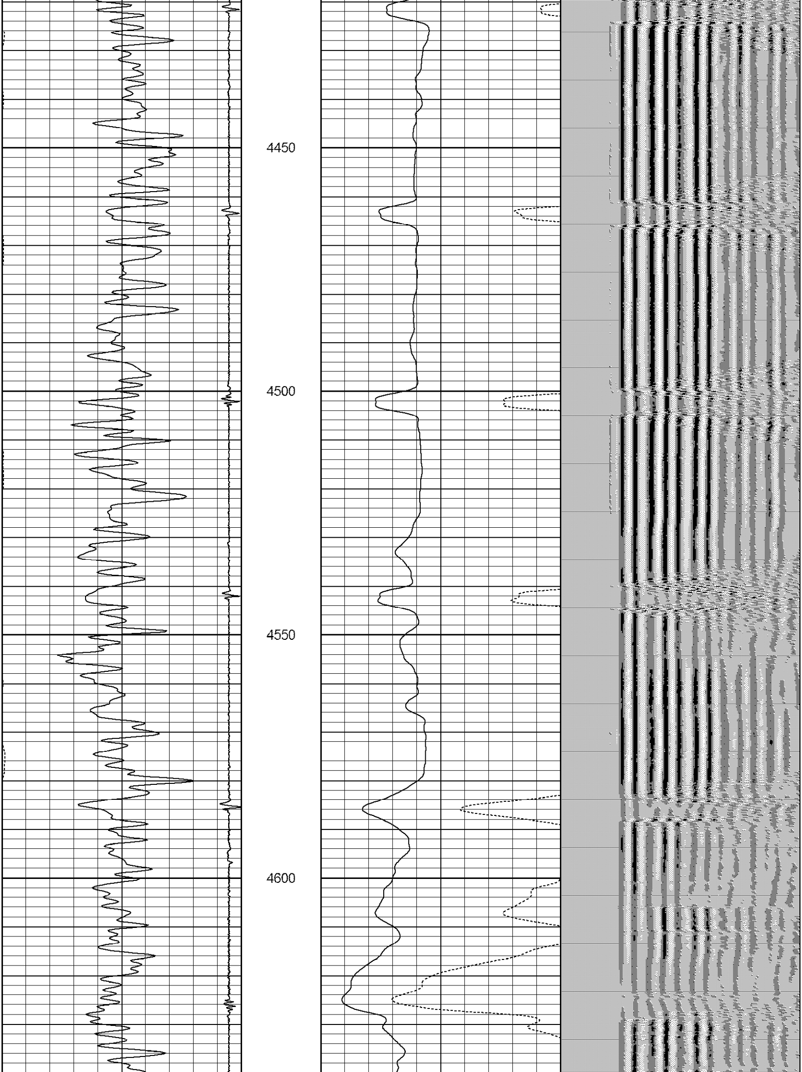
Thank You For Choosing Nabors Completion and Production Services CO!!!
API# 05-123-34658-0000
Wireline Zero @ 24' KB
Directions: 28 & 19, W 1/2, N 1/2, E 3/10, N 4/10, W Into
(West Well of 2 Well Pad)

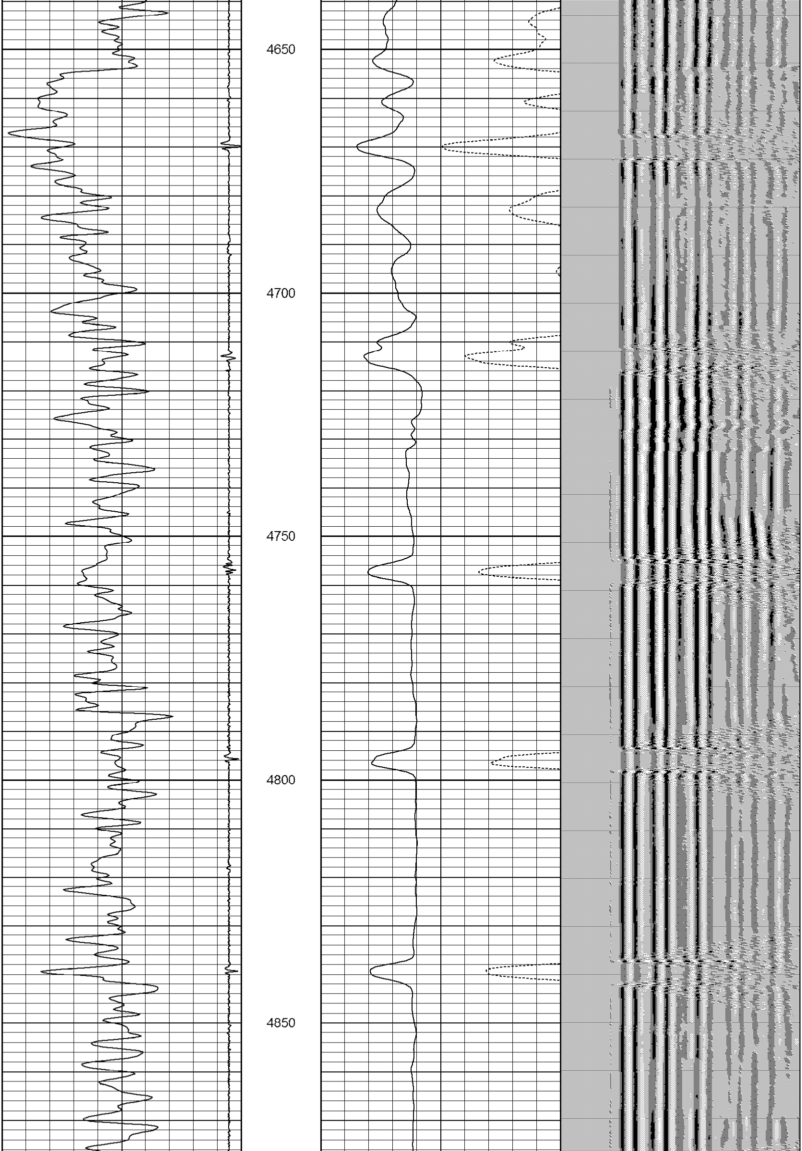
Database File:	cblnix p28-69hn.db
Dataset Pathname:	pass3
Presentation Format:	noblehozo
Dataset Creation:	Thu Oct 11 10:09:43 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

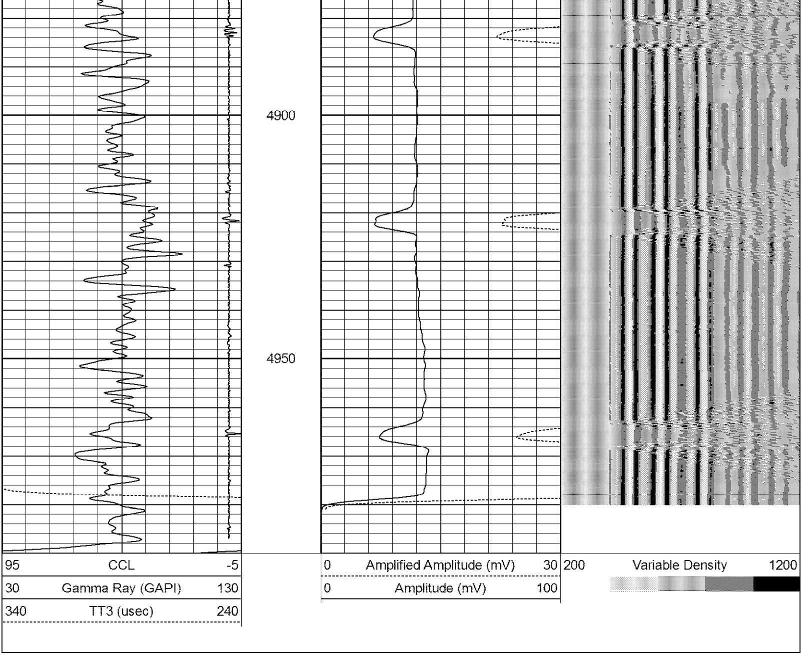




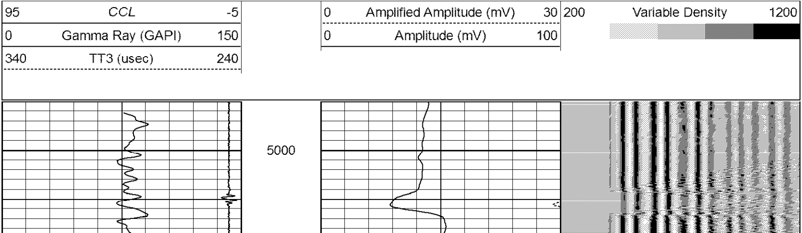


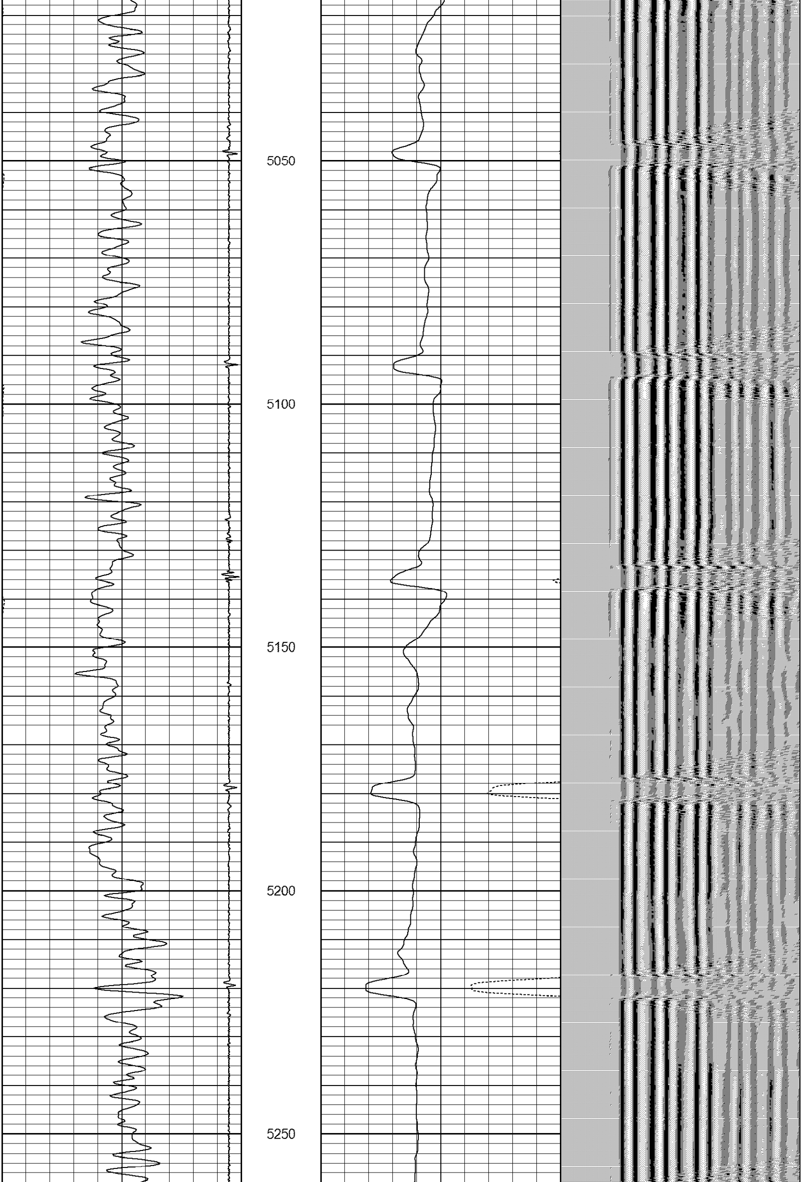


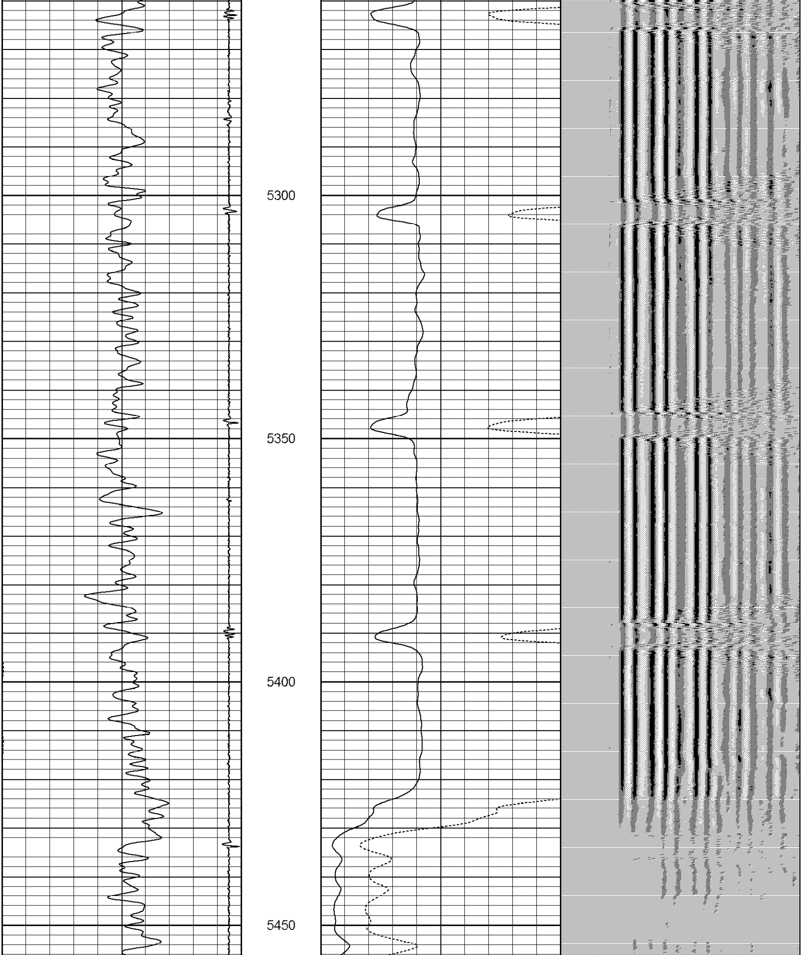


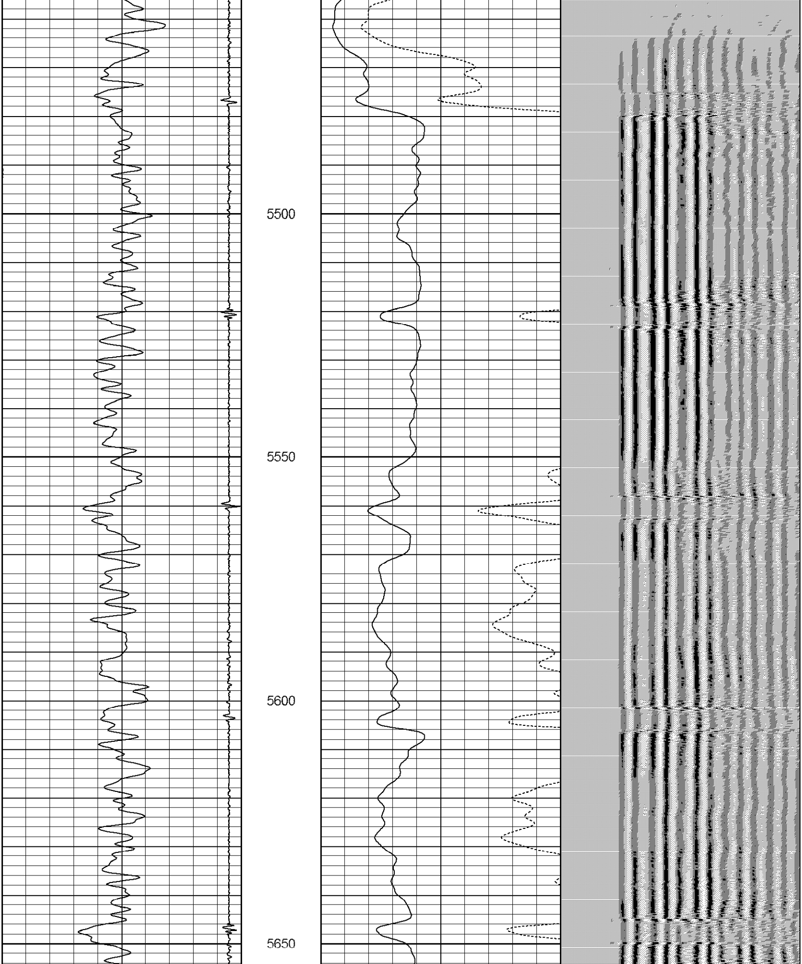


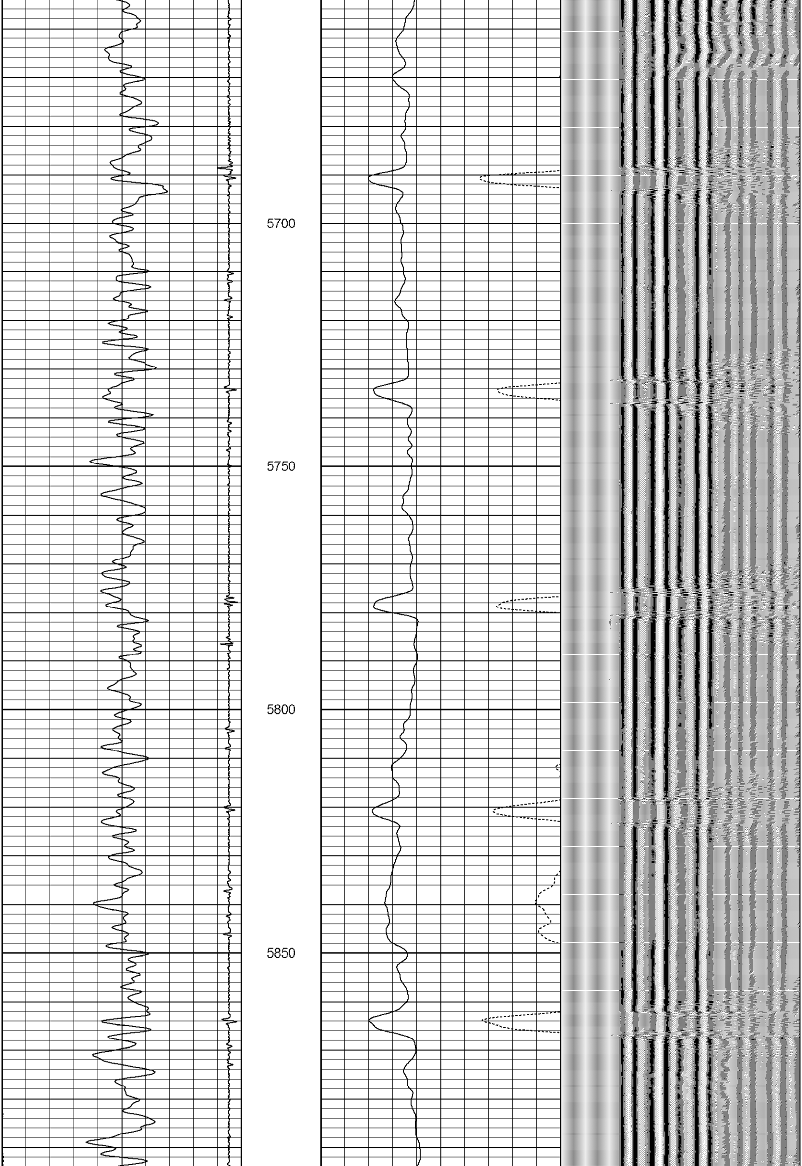
Database File:	cblnix p28-69hn.db
Dataset Pathname:	pass2
Presentation Format:	noblehozo
Dataset Creation:	Thu Oct 11 09:49:38 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

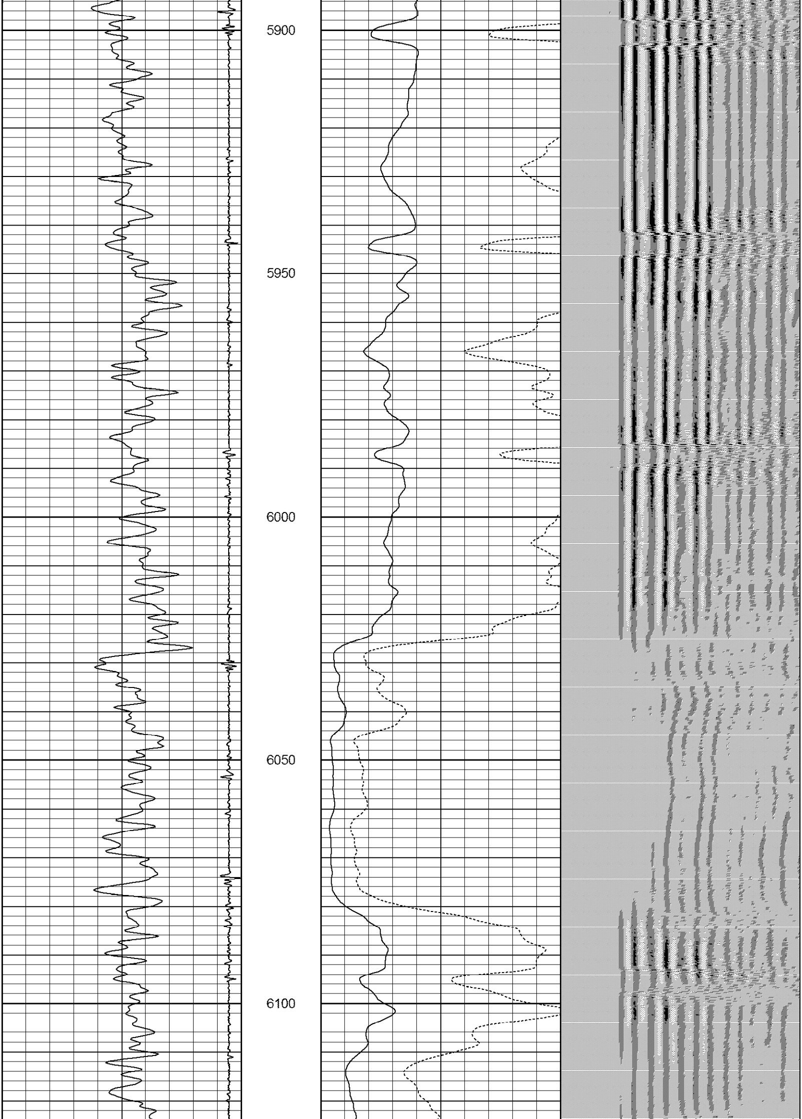


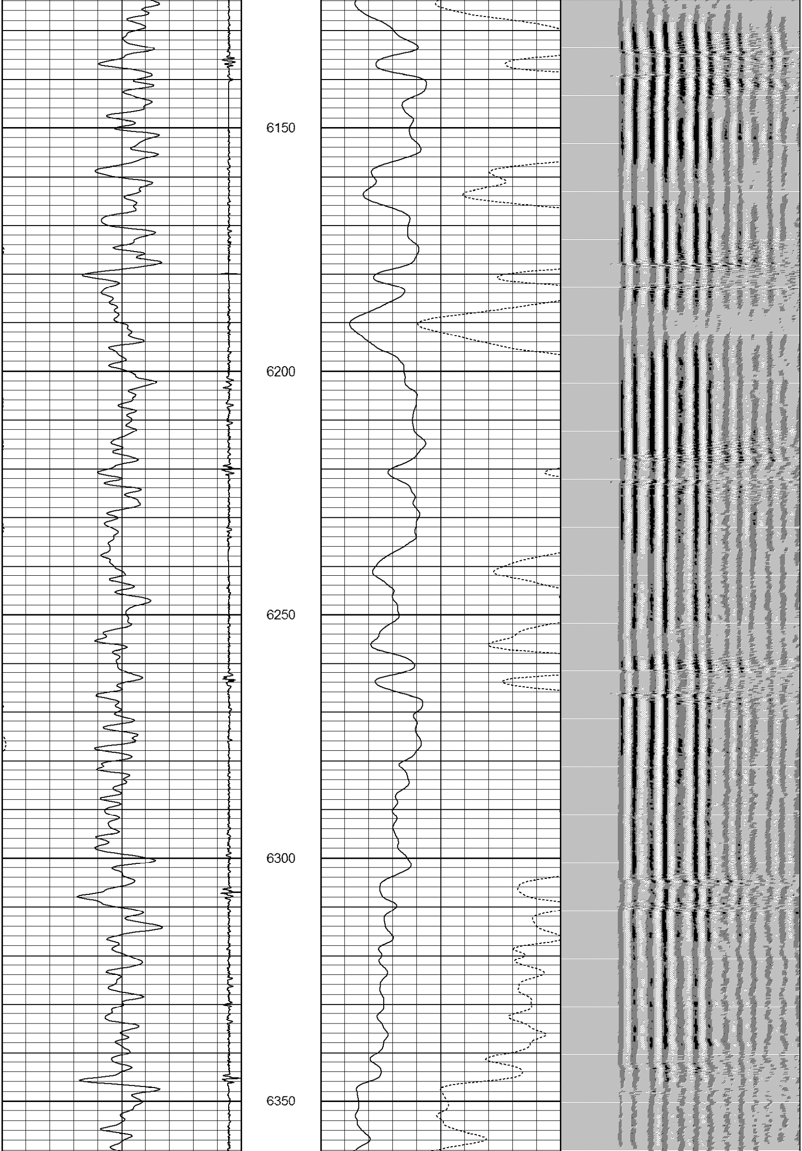


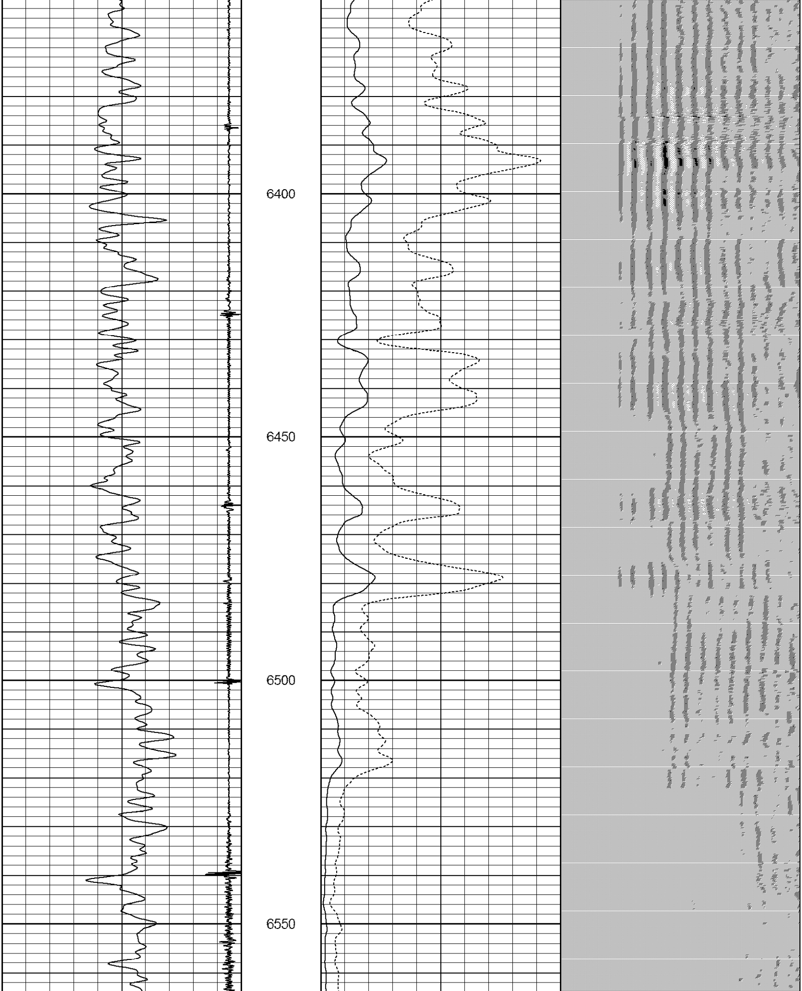


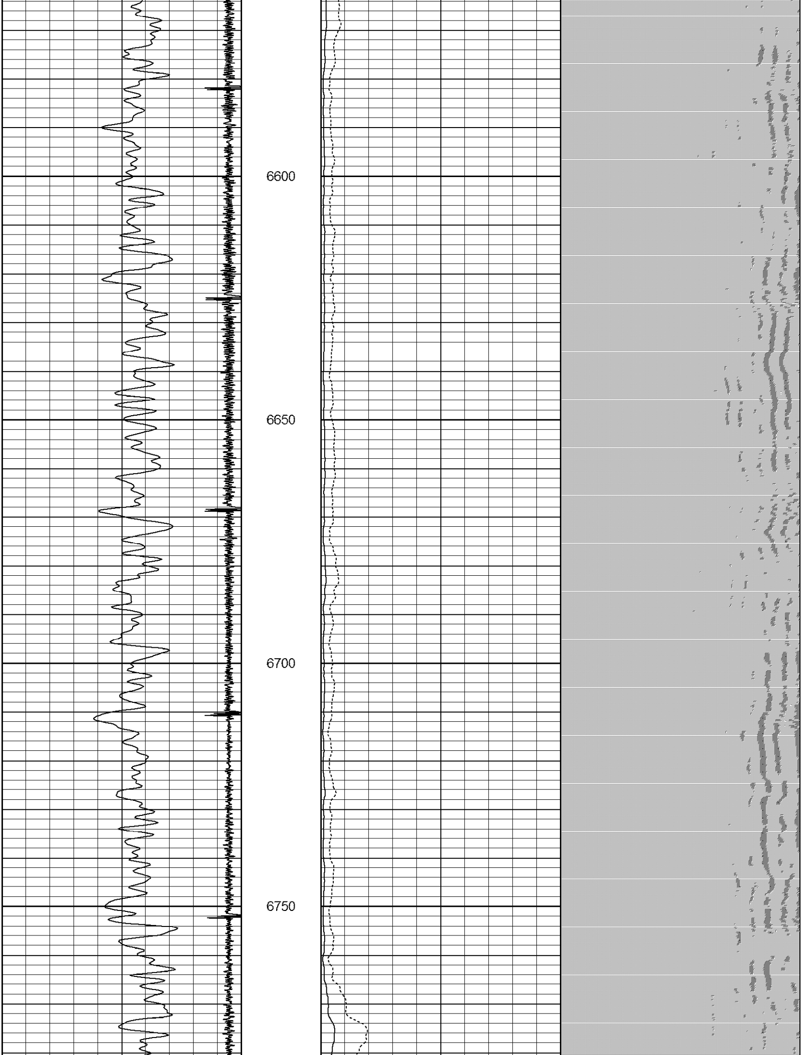


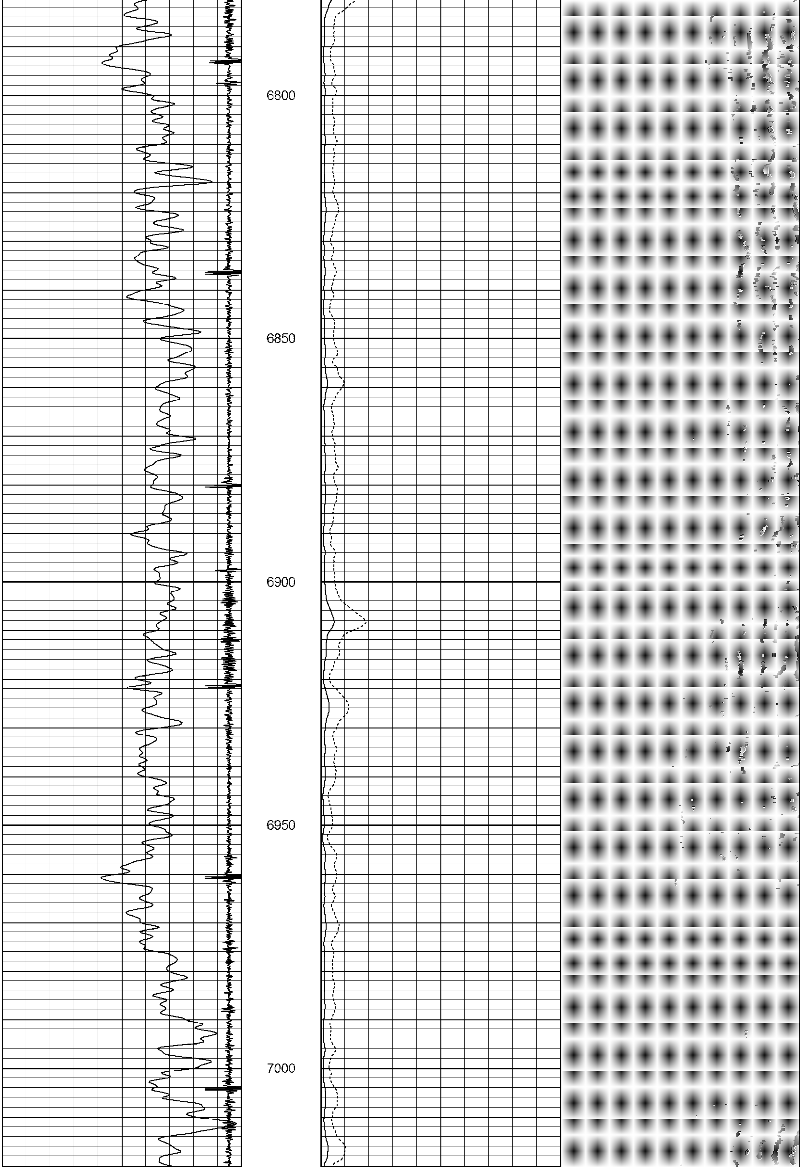


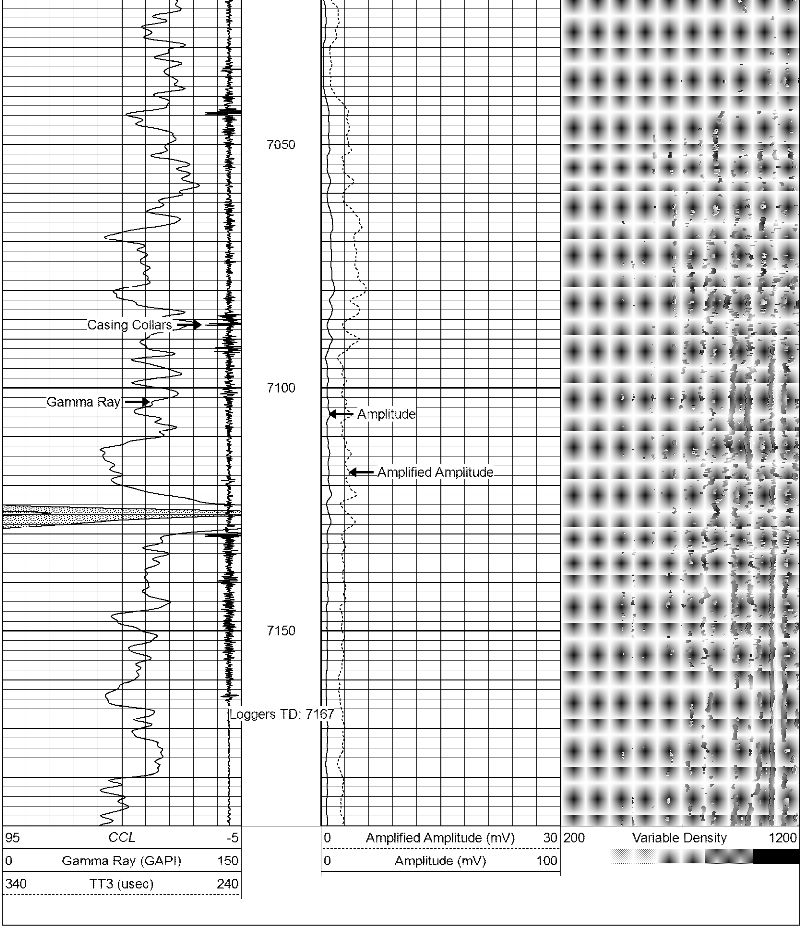












Calibration Report

Database File: cblnix p28-69hn.db
Dataset Pathname: pass3
Dataset Creation: Thu Oct 11 10:09:43 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Thu Oct 11 10:42:31 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.8500			GAPI/cps

PRIMARY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Thu Oct 11 09:31:22 2012

Depth:	299.017	ft
Casing Diameter:	7	in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.0135986	0.0134521	V
Reading in Free Pipe:	2.49849	2.4887	V
Gain:	24.6551	25.1147	
Offset:	0.564725	-0.337847	