NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY / CCL
CEMENT BOND / VDL

Company	NOBLE ENERGY, INC.
Well	MOSER X 3-27
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY, INC.
Well MOSER X 3-27
Field WATTENBERG
County WELD **State** COLORADO
Location: API #: 05-123-29665
SE/SE
SEC 34 TWP 3N RGE 65W
Other Services

			Elevation
Permanent Datum	GROUND LEVEL	Elevation	K.B. 4854
Log Measured From	KELLY BUSHING,15'		D.F.
Drilling Measured From	KELLY BUSHING		G.L. 4839

Date	1-23-15
Run Number	ONE
Depth Driller	
Depth Logger	
Bottom Logged Interval	2000'
Top Log Interval	SURFACE
Casing Size	4 1/2"
Type Fluid	WATER
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	92-0438
Tool Size / ID Number	2 3/4"PROBE
Location	FT.LUPTON
Recorded By	BRACKELSBERG
Witnessed By	MR.TRUMBLE

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

	Size	Wgt/Ft	Top	Bottom
Casing Record				
Surface String				
Prot. String				
Production String				
Liner				

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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
NABORS COMPLETION AND PRODUCTION SERVICES CO.
NOTE: LOG NOT CORROLATED!

Calibration Report

Database File: cblmoser3-27.db
Dataset Pathname: pass4
Dataset Creation: Fri Jan 23 14:00:02 2015 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

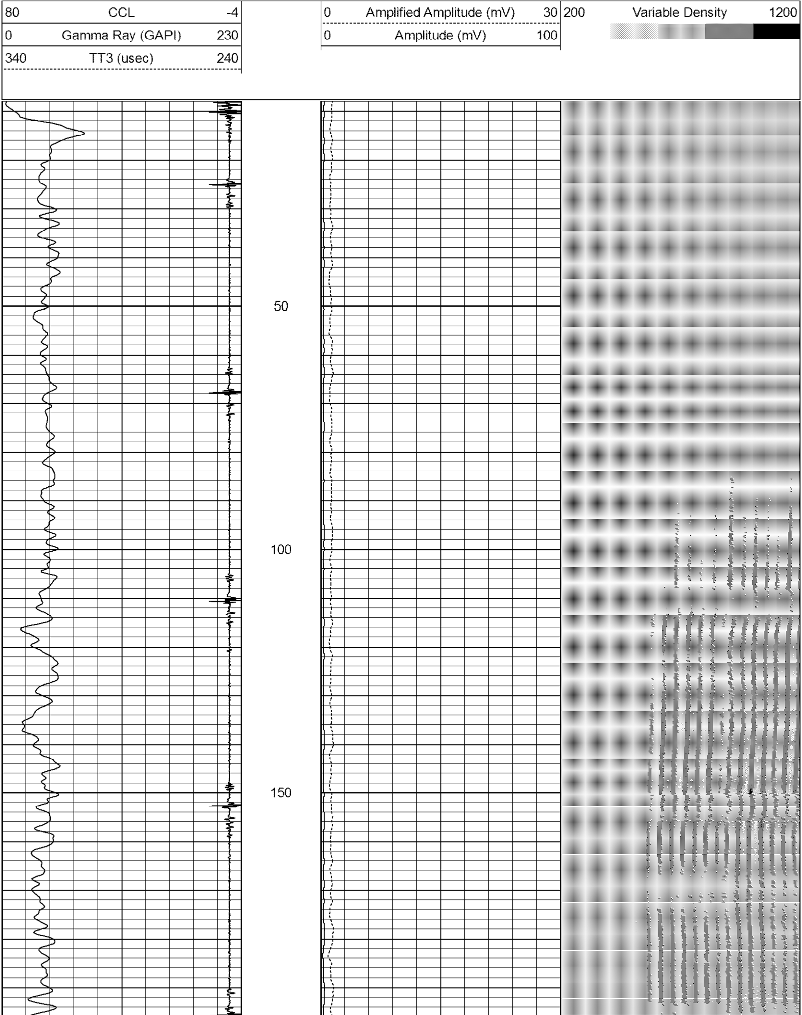
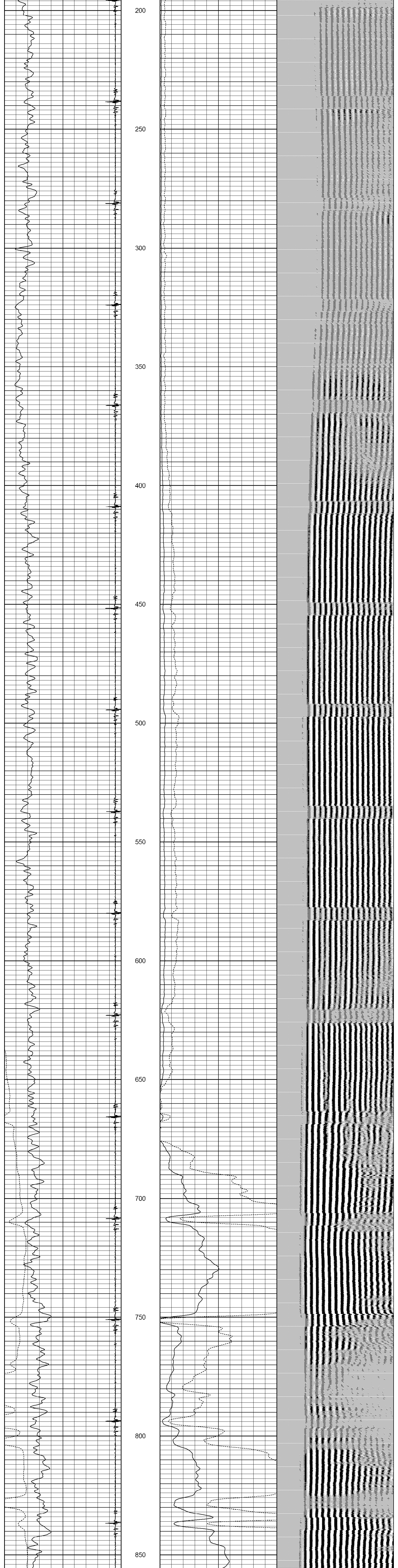
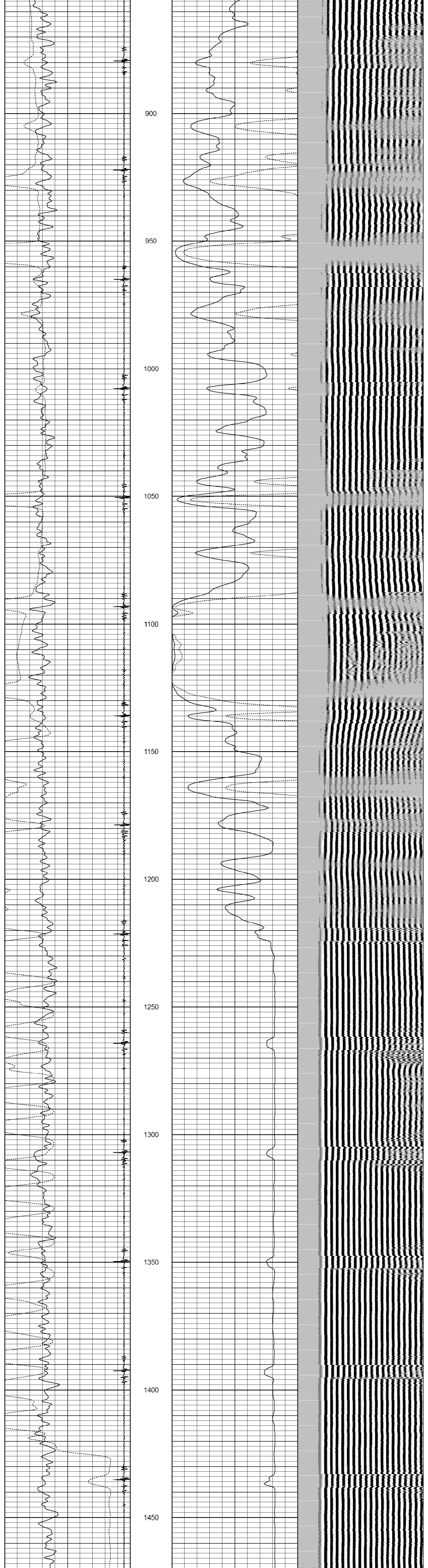
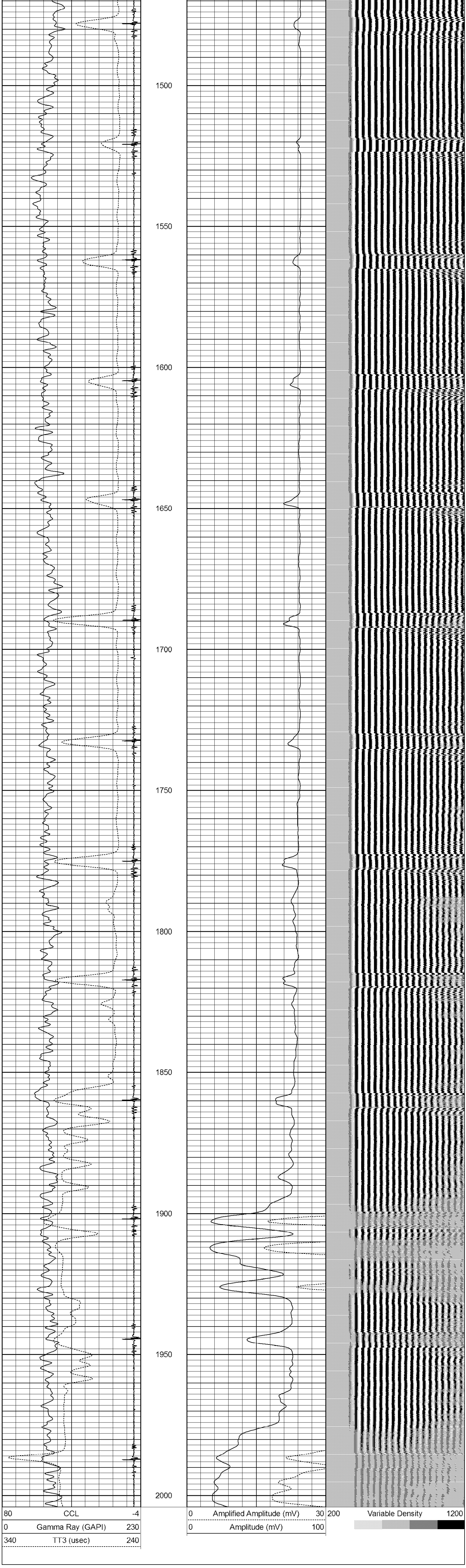
	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed Feb 27 07:52:48 2013				
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Fri Jan 23 13:57:39 2015

Depth: 1707.26 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0144043	0.0143799	V
Reading in Free Pipe:	2.47327	2.42905	V
Gain:	32.6558	33.6261	
Offset:	0.429616	-0.48354	

Database File: cblmoser3-27.db
Dataset Pathname: pass4
Presentation Format: noble en
Dataset Creation: Fri Jan 23 14:00:02 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240