Company	NOBLE ENERGY INC.
Well	MOSER H34-27
Field	WATTENBERG
County	WELD
State	COLORADO

NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company	NOBLE ENERGY INC.		
Well	MOSER H34-27		
Field	WATTENBERG		
County	WELD	State	COLORADO
Location:	API #: 05123299470000 175' FSL & 1289' FEL NE NE		Other Services
	SEC 34 TWP 3N RGE 65W		
Permanent Datum	GL	Elevation 4825	Elevation
Log Measured From	KB 13'		K.B. 4839
Drilling Measured From	KB		D.F. 4838 G.L. 4825

Date	October 11, 2012	
Run Number	One	
Depth Driller	7795	
Depth Logger	5048	
Bottom Logged Interval	5047	
Top Log Interval	2315	
Casing Size	4.50"	
Type Fluid	Water	
Max. Recorded Temp.	174 deg F	
Estimated Cement Top	800 EST.	
Time Well Ready	Leed Rig	
Time Logger On Bottom	PM	
Unit Number	4367	
Tool Size / ID Number	2.75 Probe 101010	2.75 Probe 110802
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	C. Swift	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.50"	11.6 lb/ft M-80	Surface	7788
Liner				

<<< 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 Choosing Nabors Completion and Production Services CO!!!!
API# 05-123-29947-0000
Correlated to SWSI's
Cement Bond Log Dated: January 26, 2012

Database File:	cblmoser h34-27.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Thu Oct 11 15:45:46 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

80	CCL	-4	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

80	CCL	-4	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Calibration Report

Database File:	cblmoser h34-27.db
Dataset Pathname:	pass2
Dataset Creation:	Thu Oct 11 15:45:46 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION	Thu Oct 11 15:39:13 2012				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.7000			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:	Thu Oct 11 15:23:17 2012		
Depth:	236.433	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:	0.0137695	0.0135742	V
Reading in Free Pipe:	2.49878	2.40574	V
Gain:	32.3122	33.9425	
Offset:	0.455076	-0.460744	