

NABORS COMPLETION & PRODUCTION SERVICES CO.						GAMMA RAY/ CCL CEMENT BOND / VDL					
Company NOBLE ENERGY, INC Well RAGAN N 14-07 Field WATTENBURG County WELD State COLORADO						Company NOBLE ENERGY, INC Well RAGAN N 14-07 Field WATTENBURG County WELD State COLORADO					
Location: NE/SW SEC 14 TWP 5N RGE 67W/ Permanent Datum GROUND LEVEL Elevation 4698 Log Measured From KELLY BUSHING 9' Drilling Measured From KELLY BUSHING G.L. 4698						API #: 06-123-12568 Other Services					
Date Run Number	ONE										
Depth Driller											
Depth Logger											
Casing Interval											
Top End Interval											
Casing Size	SURFACE										
Type Fluid											
Max. Recorded Temp.											
Estimated Cement Top											
Time Well Ready											
Unit Number	4687										
Tool Size / ID Number	PROBE DIG										
Recorded By	FLORENCE										
Witnessed By	BRACKETT SFRNG										
	MIR ZIVASTRA										
Borehole Record											
Run Number Bit From To											
Tubing Record											
Size Weight From To											
Casing Record											
Surface String	Size										
Pot. String	Weight										
Production String	4 1/2"										
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.
LOG NOT CORRELATED

Calibration Report

Database File: cbitzwagsfra6-12-13.db
Dataset Pathname: pass2
Dataset Creation: Wed Jun 12 10:26:25 2013 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Wed Feb 27 07:52:48 2013

Background

Counts/Sec. 0.0

Gain

Offset

Jig

Units

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:	Wed Jun 12 10:25:58 2013			
Depth:	1030	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:	0.0135498	0.013501		V
Reading in Free Pipe:	2.48687	2.36548		V
Gain:	32.465	34.5225		
Offset:	0.460106	-0.466087		
Database File: cblzwagstra6-12-13.db				

Dataset Pathname: pass2			
Presentation Format: noble en			
Dataset Creation: Wed Jun 12 10:26:25 2013 by Log SCH 120430			
Charted by: Depth in Feet scaled 1:240			
80	CCL	-4	
0	Gamma Ray (GAPI)	150	
340	TT3 (usec)	240	
		0	Amplified Amplitude (mV)
		30	200
		0	Amplitude (mV)
		100	
		Variable Density	
		1200	

