NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	WATKINS CC18-02
Field	WATTENBERG
County	WELD
State	COLORADO

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Well WATKINS CC18-02
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Location: API #: 0512316120
NW/NE
SEC 18 TWP 4N RGE 63W

Other Services

				Elevation
Permanent Datum	GL	Elevation	4644	K.B. 4654
Log Measured From	KB			D.F. 4653
Drilling Measured From	KB			G.L. 4644

Date	MAY 3, 2014
Run Number	ONE
Depth Driller	6878
Depth Logger	1244
Bottom Logged Interval	1244
Top Log Interval	SURFACE
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SURFACE
Time Well Ready	LEED RIG
Time Logger on Bottom	1-11/16 RED TOOL
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	SCOTT TRUMBLE

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	2-7/8			
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 CHOOSING NCPS!!!
LOG NOT CORRELATED
WCR 61 & WCR 46, E.5, SE INTO

Database File: cbl noble watkins cc18-02.db
Dataset Pathname: pass2
Presentation Format: nuexcbl
Dataset Creation: Sat May 03 07:55:21 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble watkins cc18-02.db
Dataset Pathname: pass2
Dataset Creation: Sat May 03 07:55:21 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Wed Oct 09 07:50:28 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Sat May 03 07:52:57 2014		
Depth:	1244.3	ft	
Casing Diameter:	2.875	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	106.451	106.451	mV
Reading at Signal Zero:	-0.00236816	-0.00395508	V
Reading in Free Pipe:	2.47961	2.49878	V
Gain:	42.2852	42.5339	
Offset:	1.60014	0.168225	