NABORS COMPLETION & PRODUCTION SERVICES CO.

Gamma Ray, Cement Bond, Variable Density, CCL

Company	Noble Energy
Well	Lucci BCB 01-07
Field	Wattenberg
County	Weld
State	Colo
Country	USA

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Location: API #: 05-123-14282
SW / NE
SEC 1 TWP 5N RGE 64W

Permanent Datum Ground Level Elevation 4605'
Log Measured From Kelley Bushing
Drilling Measured From Kelley Bushing

Elevation
K.B. 4618'
D.F. 4617'
G.L. 4605'

Other Services

Date	March 15, 2013
Run Number	1
Depth Driller	6860'
Depth Logger	1100'
Bottom Logged Interval	1100'-0'
Top Log Interval	
Open Hole Size	
Type Fluid	water
Density / Viscosity	
Max. Recorded Temp.	n/a
Estimated Cement Top	
Time Well Ready	
Time Logger on Bottom	
Equipment Number	3312 1 11/16 tit
Location	WCRs61+59,E7/10,S3/10,Winto
Recorded By	Jake Meisner
Witnessed By	

	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	3.5"			
Liner				

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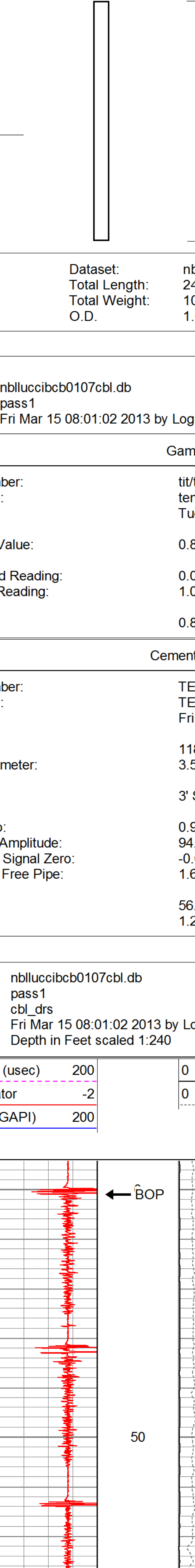
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD-STNDRD (1) Standard Cable Head	1.00	1.69	10.00
CCL	22.47	CCL-T1-11/16 (1-11/16T) Titan 1-11/16 collar locator	1.83	1.69	20.00
		CENT-App2nd (1-11/16T) Another 1-11/16 Applied centralizer	2.88	1.69	10.00
WVF3 WVF5	13.19 12.21	CBL-TEKCO-1x2 (TEKCO-01) TEKCO Cement Bond 1x2	9.68	1.69	40.00
		Superior 1 11/16" Centralizer	2.88	0.00	8.00
GR	2.63	GR-temp/tit (tit/temp) Titan 1 11/16 Gamma Ray with temp probe	5.96	1.69	20.00

Dataset: nblluccibcb0107cbl.db: field/well/run1/pass1
Total Length: 24.22 ft
Total Weight: 108.00 lb
O.D.: 1.69 in

Calibration Report

Database File: nblluccibcb0107cbl.db
Dataset Pathname: pass1
Dataset Creation: Fri Mar 15 08:01:02 2013 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Dec 11 08:08:39 2012	
Calibrator Value:	0.8	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Fri Mar 15 08:02:54 2013		
Depth:	1189.86	ft	
Casing Diameter:	3.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	94.5169	94.5169	mV
Reading at Signal Zero:	-0.00610352	-0.00654297	V
Reading in Free Pipe:	1.64843	0.236304	V
Gain:	56.5821	389.204	
Offset:	1.24535	2.54655	

Database File: nblluccibcb0107cbl.db
Dataset Pathname: pass1
Presentation Format: cbl_drs
Dataset Creation: Fri Mar 15 08:01:02 2013 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240