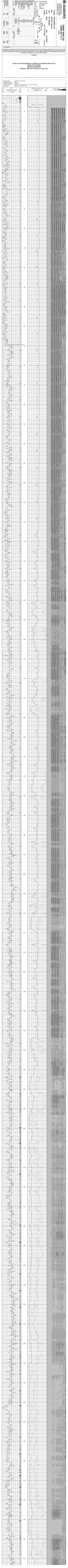

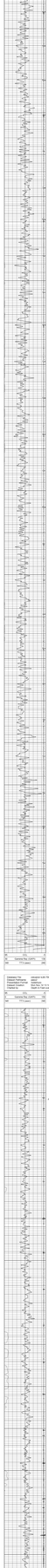

Company NOBLE ENERGY INC.
Well CASTOR LC26-75HN
Field WATTENBERG
County WELD
State COLORADO

NABORS
COMPLETION & PRODUCTION SERVICES CO.

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company NOBLE ENERGY INC.
Well CASTOR LC26-75HN
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05123333300000
SE SW
BHL: 660' FNL & 2610' FWL
SEC 26 TWP 9N RGE 59W

Other Services

Permanent Datum GL Elevation 4823
Log Measured From KB 30'
Drilling Measured From KB

Elevation
K.B. 4853
D.F. 4852
G.L. 4823

Date	November 12, 2012	
Run Number	One	
Depth Driller	10,354	
Depth Logger	6149	
Bottom Logged Interval	6148	
Top Log Interval	Surface	
Casing Size	7.00"	
Type Fluid	Water	
Max. Recorded Temp.	212 deg F	
Estimated Cement Top	1303 est.	
Time Well Ready	Crane	
Time Logger On Bottom	Pill	
Unit Number	4367	4515
Tool Size / ID Number	2.75 Probe 101010	2.75 Probe 110802
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	B. Mansfield	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36 lb/ft J-55	Surface	636
Prot. String	7.00"	26 lb/ft P-110	Surface	6424
Production String				
Liner	4.50"	11.6 lb/ft P-110	6306.2	10,354

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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 Nabors Completion and Production Services CO!!
API# 05-123-33330-0000
Wireline Zero @ 30' KB
Directions: HWY 14 & 115, N 6mi, E 1.5mi, N Into

Database File:	cblcastor lc26-75hn.db
Dataset Pathname:	pass3
Presentation Format:	noblehozo
Dataset Creation:	Mon Nov 12 13:26:53 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

95 CCL -5
30 Gamma Ray (GAPI) 130
340 TT3 (usec) 240
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200
Signal Loss, Out of Fluid
Gamma Ray, Shift, Surface Casing

Database File: cblcastor lc26-75hn.db
Dataset Pathname: pass2
Presentation Format: noblehozo
Dataset Creation: Mon Nov 12 13:14:47 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblcastor lc26-75hn.db
Dataset Pathname: pass3
Dataset Creation: Mon Nov 12 13:26:53 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Mon Nov 12 09:47:23 2012				
Background	0.0				cps
Calibrator	1.0				cps
		0.8500			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: Mon Nov 12 12:59:35 2012

Depth:	515.358	ft	
Casing Diameter:	7	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.0137207	0.0135986	V
Reading in Free Pipe:	2.49878	2.49878	V
Gain:	24.6534	25.0143	
Offset:	0.561738	-0.340161	