
 NABORS										GAMMA RAY / CCL CEMENT BOND / VDL																			
COMPLETION & PRODUCTION SERVICES CO.																													
Company NOBLE ENERGY, INC Well HARDESTY 10-05 G6 Field WATTENBERG County WELD State COLORADO					Company NOBLE ENERGY, INC Well HARDESTY 10-05 G6 Field WATTENBERG County WELD State COLORADO					Location: API #: 05-123-18667 SEC 10 TWP 6N RGE 66W SW/4W GROUND LEVEL 4879 Log Measured From KELLY BUSHING 14 Drilling Measured From KELLY BUSHING Elevation K B 4883 D.T. 4879 O.L. 4879																			
Date 12-28-13 Run Number ONE Depth Logger Bottom Logged Interval 1000' Top Log Interval SURFACE Casing Size 2 7/8" Type Fluid WATER Max. Recorded Temp. Estimated Cement Top Time From Well Bottom Time Lagged On Bottom Unit Number 4367 Tool Size / ID Number 1 11/16" TEKO Location FT LUPTON Recorded By BRACKELSBERG Witnessed By MIRHOSHTEIN					Borehole Record Run Number BR From To Size To Weight From To Tubing Record Run Number BR From To Size To Weight From To					Casing Record Run Number BR From To Size To Weight From To Production String 2 7/8" Production String Lineer																			
<<< 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 USING
NABORS COMPLETION AND PRODUCTION SERVICES CO.

NOTE: LOG NOT CORRELATED

Database File: cblhardesty10-5.db
 Dataset Pathname: pass6
 Presentation Format: nuexcbl
 Dataset Creation: Sat Dec 28 08:10:48 2013 by Log SCH 120430
 Charted by: Depth in Feet scaled 1:240

85	CCL	-4.5	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	108			
340	TT3 (usec)	240						



Performed:	Sat Dec 28 07:37:59 2013		
Depth:	1049.1	ft	
Casing Diameter:	2.785	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	93.157	93.157	mV
Reading at Signal Zero:	-0.0112305	-0.0114014	V
Reading in Free Pipe:	2.33494	2.5	V
Gain:	39.3224	37.0936	
Offset:	1.34161	0.422918	