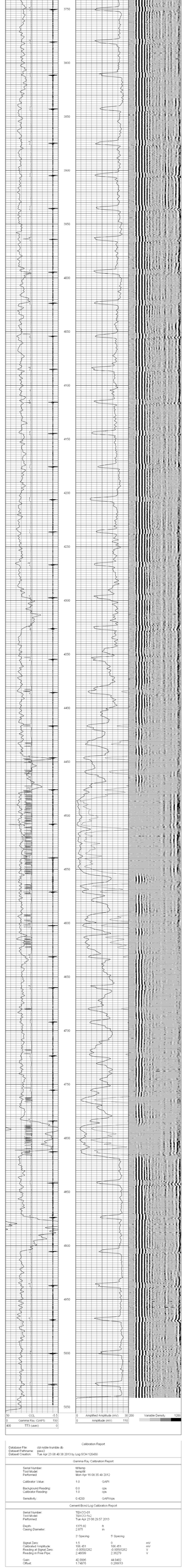

NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well SPIKE STATE GWS H36-14
Field WATTENBERG
County WELD State COLORADO

Location: API #:
SE/SW
SEC 36 TWP 3N RGE 65W

Other Services

Permanent Datum GL Elevation
Log Measured From KB
Drilling Measured From KB

Elevation
K.B.
D.F.
G.L.

Company NOBLE ENERGY INC.
Well SPIKE STATE GWS H36-14
Field WATTENBERG
County WELD
State COLORADO

Date	APRIL 23, 2013
Run Number	ONE
Depth Driller	
Depth Logger	5000
Bottom Logged Interval	5000
Top Log Interval	SURFACE
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	
Time Well Ready	KEY RIG
Time Logger on Bottom	
Equipment Number	1-11/16 RED TOOL
Location	4838
Recorded By	45
Witnessed By	GREG NOLAN 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				

<<< 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 CHOOSING NCPS!!!!
LOG NOT CORRELATED
WCR 30 & WCR 49, S2, W.7, N INTO

Database File: cbl noble trumble.db
Dataset Pathname: pass3
Presentation Format: nuexcbl
Dataset Creation: Tue Apr 23 08:40:38 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File:	cbl noble trumble.db
Dataset Pathname:	pass3
Dataset Creation:	Tue Apr 23 08:40:38 2013 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Mon Apr 16 08:35:49 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4200	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Tue Apr 23 08:29:57 2013		
Depth:	1375.92	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:	-0.00593262	-0.00593262	V
Reading in Free Pipe:	2.48699	2.36279	V
Gain:	42.0996	44.9402	
Offset:	1.74976	0.266613	