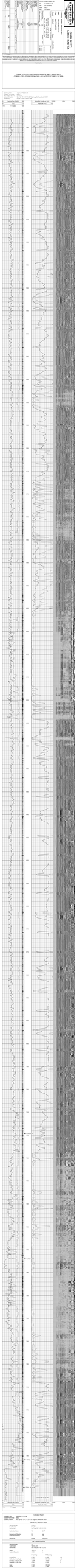

SUPERIOR WELL SERVICES

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well GLOVER V12-27D
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY INC.
Well	GLOVER V12-27D
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API # : 05-123-30117

SHL: 529' FNL & 1827' FEL NW NE
BHL: 98' FNL & 1110' FEL NE NE
SEC 12 TWP 2N RGE 67W

Other Services

Permanent Datum	GL	Elevation	4836
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4849
D.F. 4849
G.L. 4836

Date	APRIL 26, 2010		
Run Number	ONE		
Depth Driller	8045		
Depth Logger	7941		
Bottom Logged Interval	7940		
Top Log Interval	4930		
Open Hole Size	7-7/8		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready	LEED RIG		
Time Logger on Bottom	1-11/16 GO TOOL		
Equipment Number	3342		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	JEREMIE SCHNEIDER		

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	4-1/2			
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 SUPERIOR WELL SERVICES!!!!
CORRELATED TO PSI OPEN HOLE LOG DATED OCTOBER 21, 2009

Database File: cblglover v12-27d.db
Dataset Pathname: pass4
Presentation Format: nuexbond
Dataset Creation: Mon Apr 26 14:01:18 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblglover v12-27d.db
Dataset Pathname: pass2
Dataset Creation: Mon Apr 26 13:42:18 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Mon Mar 29 14:22:26 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

CBL Calibration Report

Serial Number:	111		
Tool Model:	TekCo_GOI		
Performed:	Mon Apr 26 13:42:10 2010		
Depth:	1943.517	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.200	1.200	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.006	-0.006	V
Reading in Free Pipe:	2.500	2.500	V
Gain:	31.922	31.923	
Offset:	1.392	1.389	