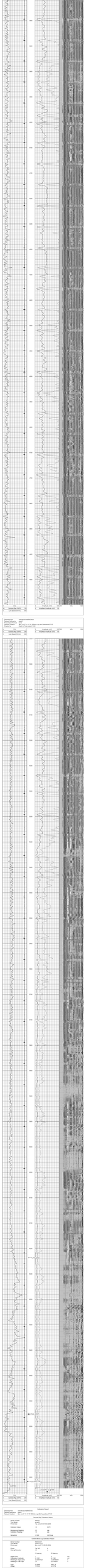

Company NOBLE ENERGY INC.
Well WELLS RANCH AF06-08
Field WATTENBERG
County WELD
State COLORADO

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well WELLS RANCH AF06-08
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-30171
2120' FNL & 656' FEL
SE NE
SEC 6 TWP 5N RGE 62W

Other Services

Permanent Datum	GL	Elevation	4678
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4693
D.F. 4693
G.L. 4678

Date	JULY 27, 2009
Run Number	ONE
Depth Driller	6766
Depth Logger	6680
Bottom Logged Interval	6679
Top Log Interval	SURFACE
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	220 DEG.F
Estimated Cement Top	960
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	1-11/16 TOOL #3
Equipment Number	3342
Location	45
Recorded By	NOLAN
Witnessed By	QUINTON DOBBINS

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!!!!
WCR 67 & 68, E .2, S 1.75, E 3.25, S 1.5 , SE INTO
CORRELATED TO PSI OPEN HOLE DATED JULY 18, 2009

Database File:	cblwellsranchaf06-08.db
Dataset Pathname:	pass6
Presentation Format:	bond
Dataset Creation:	Mon Jul 27 11:39:45 2009 by Log Std Casedhole 07122
Charted by:	Depth in Feet scaled 1:240

9	CCL	-1
30	Gamma Ray (GAPI)	130
0	Line Speed (ft/min)	-300

0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	30

200	VDL	1200

9	CCL	-1	0	Amplitude (mV)	100	200	VDL	1200
30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	30			
0	Line Speed (ft/min)	-300						

Database File: cblwellsranchaf06-08.db
Dataset Pathname: pass5
Presentation Format: bond
Dataset Creation: Mon Jul 27 11:17:51 2009 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

9	CCL	-1	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
0	Line Speed (ft/min)	-300						

9	CCL	-1	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
0	Line Speed (ft/min)	-300						

Calibration Report

Database File: cblwellsranchaf06-08.db
Dataset Pathname: pass4
Dataset Creation: Mon Jul 27 11:17:27 2009 by Log Std Casedhole 07122

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Jun 23 09:48:52 2009	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Mon Jul 27 10:58:29 2009		
Depth:	748.283	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1	1	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.00561523	-0.00480957	V
Reading in Free Pipe:	2.5	0.0134033	V
Gain:	32.0066	4403.26	
Offset:	1.17972	22.1778	