NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	GUTTERSEN STATE 4-14
Field	WATTENBERG
County	WELD
State	COLORADO

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Well GUTTERSEN STATE 4-14
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512319142
NW/NW
SEC 14 TWP 3N RGE 64W

Other Services

Permanent Datum	GL	Elevation 4781	Elevation
Log Measured From	KB		K.B. 4791
Drilling Measured From	KB		D.F. .
			G.L. 4781

Date	MAY 14, 2014
Run Number	ONE
Depth Driller	6986
Depth Logger	1035
Bottom Logged Interval	1035
Top Log Interval	SURFACE
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	40
Time Well Ready	LEED RIG
Time Logger on Bottom	1-11/16 RED TOOL
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	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	3-1/2	7.7# I-70	SURFACE	7032
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 NCPS!!!!!
LOG NOT CORRELATED
WCR 34 & WCR 53, E2.2, S.3, E INTO

Database File:	cbl noble guttersen state 4-14.db
Dataset Pathname:	pass2
Presentation Format:	nuexcbl
Dataset Creation:	Wed May 14 08:03:10 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

20 CCL -2.2
0 Gamma Ray (GAPI) 150
400 TT3 (usec) 0
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200

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Calibration Report

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Dataset Pathname:	pass2
Dataset Creation:	Wed May 14 08:03:10 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Wed Oct 09 07:50:28 2013	
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:	Wed May 14 07:51:57 2014		
Depth:	1073.39	ft	
Casing Diameter:	3.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	94.5169	94.5169	mV
Reading at Signal Zero:	-0.0060791	-0.00615234	V
Reading in Free Pipe:	2.49475	2.49878	V
Gain:	37.1944	37.7323	
Offset:	1.72611	0.232142	