NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	SINJIN E36-02
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well SINJIN E36-02
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512316301
NW/NE
SEC 36 TWP 6N RGE 65W

Other Services

Permanent Datum GL Elevation 4650
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4659
D.F.
G.L. 4650

Date	JULY 10, 2014
Run Number	ONE
Depth Driller	7000
Depth Logger	1020
Bottom Logged Interval	1020
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	2-3/4 PROBE
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	ALLEN MILLER

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24#	SURFACE	324
Prot. String				
Production String	4-1/2		SURFACE	7000
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 64 & WCR 47, E.5, S.1, E INTO

Database File:	cbl noble sinjin e36-02.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Thu Jul 10 07:29:30 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

50 CCL -5.5
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

Database File:	cbl noble sinjin e36-02.db
Dataset Pathname:	pass2
Dataset Creation:	Thu Jul 10 07:29:30 2014 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION	Fri Nov 08 09:38:30 2013				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.4400			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number:	110802		
Tool Model:	Probe275Digital		
Performed:	Thu Jul 10 07:29:21 2014		
Depth:	1040.07	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.00585938	-0.00595703	V
Reading in Free Pipe:	2.48621	2.33354	V
Gain:	32.301	34.7066	
Offset:	0.889263	0.206748	