Company	Noble Energy INC.
Well	BOOTH USX EE35-12D
Field	Wattenberg
County	Weld
State	Colorado

SUPERIOR WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company	Noble Energy INC.
Well	BOOTH USX EE35-12D
Field	Wattenberg
County	Weld

State Colorado

Location:
API #: 05123342170000
SHL: 1171' FNL & 2089' FEL
BHL: 660' FWL & 2100' FSL
LAT: 40.534790 / LONG: -104.628030
SEC 35 TWP 7N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4831
Log Measured From	KB 14'		
Drilling Measured From	KB		

Elevation
K.B. 4845
D.F. 4844
G.L. 4831

Date	November 3, 2011	
Run Number	One	
Depth Driller	8152 est.	
Depth Logger	8086	
Bottom Logged Interval	8085	
Top Log Interval	1430	
Casing Size	4 1/2"	
Type Fluid	Water	
Max. Recorded Temp.	230 deg F	
Estimated Cement Top	1870	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	3344	
Tool Size / ID Number	2.75 Probe 110802	2.75 Probe 110785
Location	Platteville, CO	
Recorded By	K. Monaghan	
Witnessed By	J. Schneider	

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 lb/ft J-55	Surface	744
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	8152
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!!!
API# 05-123-34217-0000
NO OPEN HOLE LOGS TO CORRELATE WITH!!
Wireline Zero @ 14' KB
Directions: 76 & 45, E 6/10, S into
(Center Well of 3 Well Pad)

Database File:	cblbooth usx ee35-12d.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Thu Nov 03 09:12:13 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	CCL	-1.5
30	Gamma Ray (GAPI)	130
350	TT3 (usec)	285

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

200	Variable Density	1200

30	CCL	-1.5
30	Gamma Ray (GAPI)	130
350	TT3 (usec)	285

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

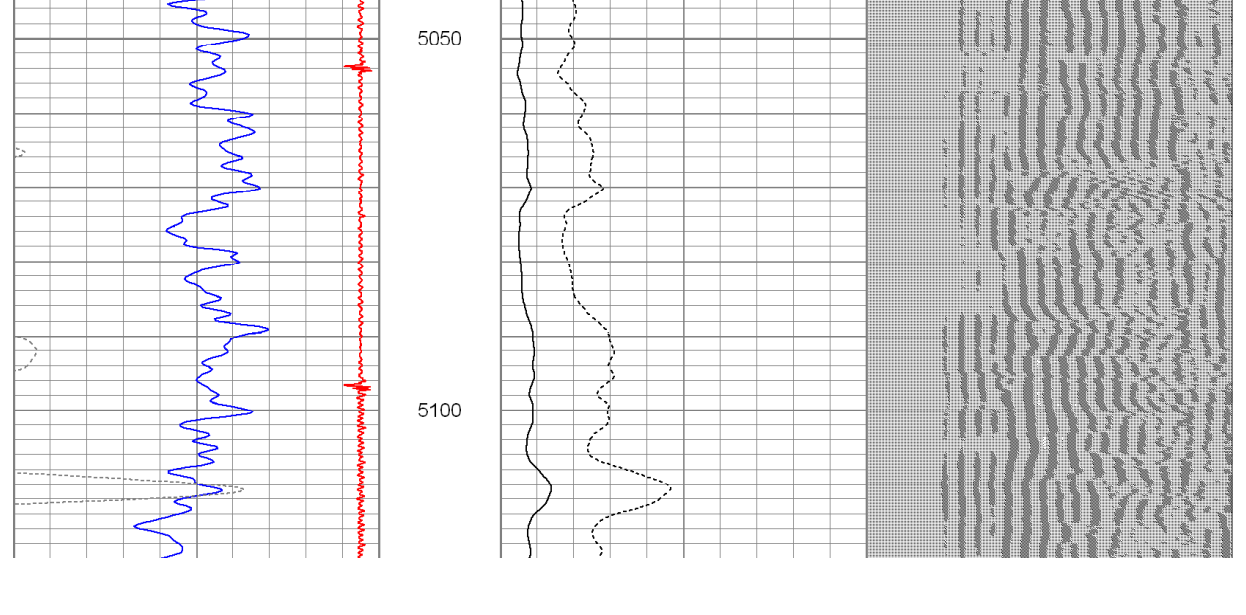
200	Variable Density	1200

Database File:	cblbooth usx ee35-12d.db
Dataset Pathname:	pass1
Presentation Format:	noble en
Dataset Creation:	Thu Nov 03 08:43:58 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	CCL	-1.5
0	Gamma Ray (GAPI)	150
350	TT3 (usec)	285

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

200	Variable Density	1200



Calibration Report

Database File: cblbooth usx ee35-12d.db
Dataset Pathname: pass2
Dataset Creation: Thu Nov 03 09:12:13 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Thu Nov 03 07:19:05 2011

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			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 Nov 03 06:56:16 2011

Depth: 625.725 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0131836	0.0130127	V
Reading in Free Pipe:	2.49878	2.46013	V
Gain:	32.3046	33.1803	
Offset:	0.47411	-0.431765	