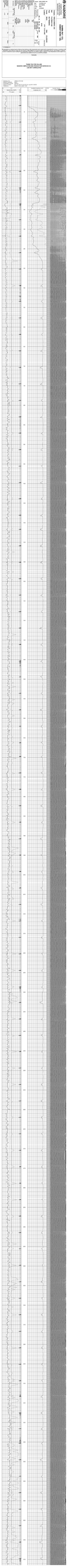

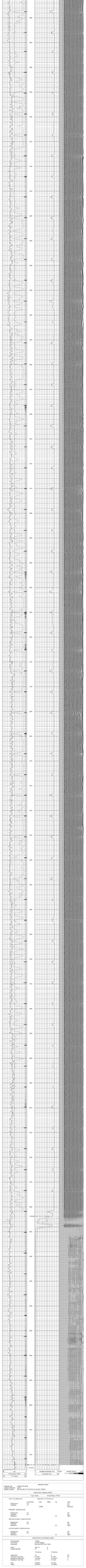

NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY / CCL
CEMENT BOND / VDL

Company	NOBLE ENERGY, INC
Well	FLATIRON 10-36
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY, INC

Well FLATIRON 10-36

Field WATTENBERG

County WELD State COLORADO

Location: API #: 05-123-12686

NW/SE

SEC 36 TWP 6N RGE 66W

Other Services

Permanent Datum GROUND LEVEL Elevation 4662

Log Measured From KELLY BUSHING, 11'

Drilling Measured From KELLY BUSHING

Elevation
K.B. 4673
D.F.
G.L. 4662

Date	4-28-14
Run Number	ONE
Depth Driller	
Depth Logger	
Bottom Logged Interval	6500'
Top Log Interval	SURFACE
Casing Size	4 1/2"
Type Fluid	WATER
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	92-0438
Tool Size / ID Number	2 3/4"PROBE
Location	FT.LUPTON
Recorded By	BRACKELSBERG
Witnessed By	MR.EASON

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4 1/2"			
Liner				

<<< Fold Here >>>

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 CALLING
NABORS COMPLETION AND PRODUCTION SERVICES CO.
LOG NOT CORROLATED

Database File:	cblflatiron10-36.db
Dataset Pathname:	pass4
Presentation Format:	noble en
Dataset Creation:	Mon Apr 28 07:51:20 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: cblflatiron10-36.db
Dataset Pathname: pass4
Dataset Creation: Mon Apr 28 07:51:20 2014 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION	Wed Feb 27 07:52:48 2013				
	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: Mon Apr 28 07:42:57 2014

Depth: 5655.73 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:	0.013916	0.0137451	V
Reading in Free Pipe:	2.47175	2.37324	V
Gain:	32.6694	34.4125	
Offset:	0.445372	-0.473003	