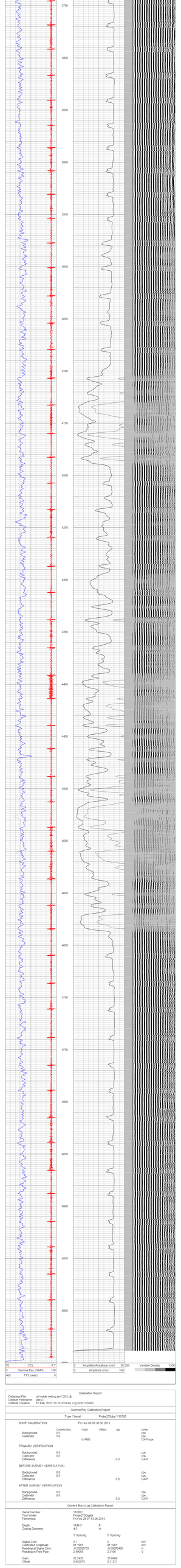

NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	VETTING PM F26-02
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well VETTING PM F26-02
Field WATTENBERG
County WELD State COLORADO

Location: API #: 051231406 0
NW/NE
SEC 26 TWP 5N RGE 65W

Other Services

Permanent Datum	GL	Elevation 4642	Elevation K.B. 4652 D.F. 4651 G.L. 4642
Log Measured From	KB		
Drilling Measured From	KB		

Date	FEBRUARY 28, 2014
Run Number	ONE
Depth Driller	7187
Depth Logger	5000
Bottom Logged Interval	5000
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	SURFACE
Time Well Ready	ENSIGN RIG
Time Logger on Bottom	2-3/4 PROBE 110802/785
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	PETE BURNS

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	4-1/2	15.10#	0	7187
Prot. String				
Production String				
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 54 & WCR 47, W.4, S INTO

Database File:	cbl noble vetting pmf 26-2.db
Dataset Pathname:	pass3
Presentation Format:	noble en
Dataset Creation:	Fri Feb 28 07:26:19 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble vetting pmf 26-2.db
Dataset Pathname: pass3
Dataset Creation: Fri Feb 28 07:26:19 2014 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION		Fri Nov 08 09:38:30 2013			
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: Fri Feb 28 07:13:28 2014

Depth: 1149.3 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:	-0.00595703	-0.00605469	V
Reading in Free Pipe:	2.49055	2.3106	V
Gain:	32.2435	35.0489	
Offset:	0.892075	0.21221	