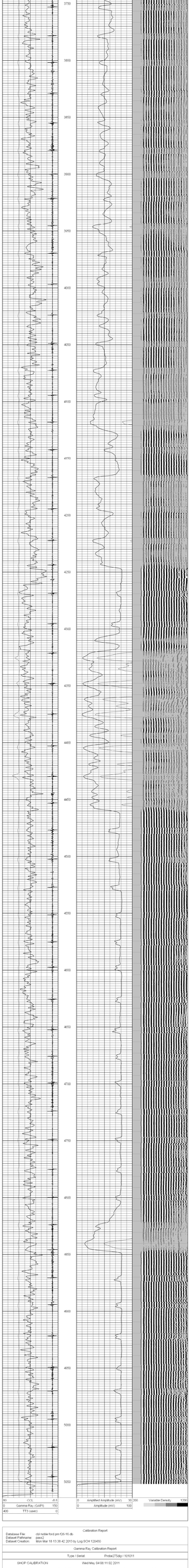

NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well FORD PM F26-16
Field WATTENBERG
County WELD
State COLORADO

Company NOBLE ENERGY INC.
Well FORD PM F26-16
Field WATTENBERG
County WELD State COLORADO

Location: API #:
SE/SE
SEC 26 TWP 5N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4657
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4666
D.F. 4665
G.L. 4657

Date	MARCH 18, 2013		
Run Number	ONE		
Depth Driller	7152		
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	BOHLER RIG		
Time Logger on Bottom	PROBE 2-3/4 110803		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	DENNIS MARSHALL		

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	4.5	15.10#		
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 CORRELATED TO NCPS GAMMA RAY CCL, CEMENT BOND VDL LOG DATED MARCH 12, 2012
WCR 47 & WCR 52, W.2, S INTO

Database File: cbl noble ford pm f26-16.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Mon Mar 18 13:38:42 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble ford pm f26-16.db
Dataset Pathname: pass2
Dataset Creation: Mon Mar 18 13:38:42 2013 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101011

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed May 04 08:11:02 2011				
Background	0.0				cps
Calibrator	1.0				cps
		0.7000			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: 110803
Tool Model: Probe275Digital
Performed: Mon Mar 18 13:38:36 2013

Depth: 5059.04 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.00578613	-0.00598145	V
Reading in Free Pipe:	2.48506	2.24016	V
Gain:	31.9956	36.1491	
Offset:	1.68513	0.216224	