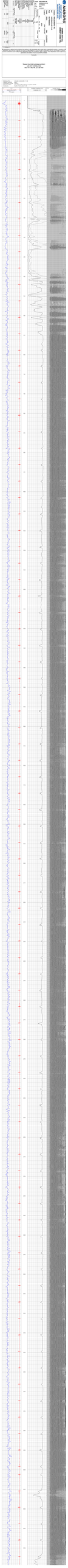

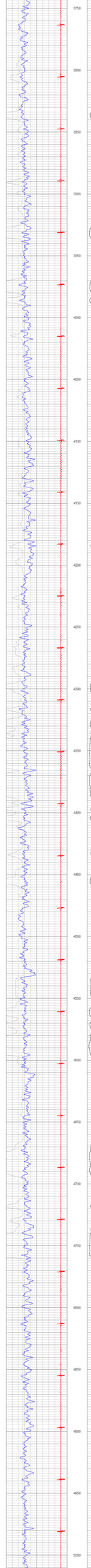

NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.	Company	NOBLE ENERGY INC.
Well	WEIDENKELLER 01-02	Well	WEIDENKELLER 01-02
Field	WATTENBERG	Field	WATTENBERG
County	WELD	County	WELD
State	COLORADO	State	COLORADO

Location: API #: 0512312527

SE/NW

SEC 1 TWP 4N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4755
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4767
D.F.
G.L. 4755

Date	JULY 22, 2014		
Run Number	ONE		
Depth Driller	7155		
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	120		
Time Well Ready	BAYOU RIG		
Time Logger on Bottom	2-3/4 PROBE		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	CARL SWIFT		

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		SURFACE	305
Prot. String				
Production String	4-1/2		SURFACE	TD
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 47 & WCR 50. E.4, SE INTO

Database File: cbl noble weidenkeller 1-2.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Tue Jul 22 07:48:27 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble weidenkeller 1-2.db
Dataset Pathname: pass3
Dataset Creation: Tue Jul 22 07:48:27 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:	Tue Jul 22 07:37:31 2014		
Depth:	1249.31		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:	-0.00603027	-0.00593262	V
Reading in Free Pipe:	2.49878	2.34353	V
Gain:	32.1366	34.5594	
Offset:	0.893793	0.205028	