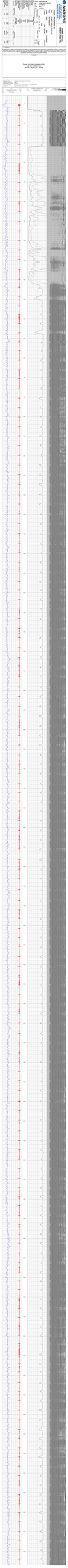

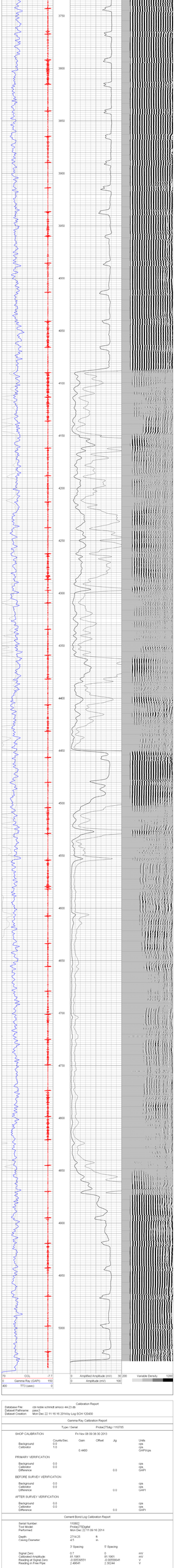

NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well SCHMIDT AMOCO UPRR 44-23
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY INC.
Well	SCHMIDT AMOCO UPRR 44-23
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 0512313881

SE/SE

SEC 23 TWP 4N RGE 66W

Other Services

Permanent Datum	GL	Elevation	4742
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4753
D.F.
G.L. 4742

Date	DECEMBER 22, 2014		
Run Number	ONE		
Depth Driller	7335		
Depth Logger	5000		
Bottom Logged Interval	5000		
Top Log Interval	SURFACE		
Open Hole Size			
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	98		
Time Well Ready	LEED RIG		
Time Logger on Bottom	2-3/4 PROBE		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	SCOTT TRUMBLE		

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#	SURFACE	353
Prot. String				
Production String	4-1/2	15.1#	SURFACE	7200
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 35 & WCR 42, N.1, W INTO

Database File: cbl noble schmidt amoco 44-23.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Mon Dec 22 11:16:16 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble schmidt amoco 44-23.db
Dataset Pathname: pass3
Dataset Creation: Mon Dec 22 11:16:16 2014 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION	Fri Nov 08 09:38:30 2013				
	Counts/Sec.	Gain	Offset	Jig	Units
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:	Mon Dec 22 11:09:16 2014		
Depth:	2714.25	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:	-0.00539551	-0.00556641	V
Reading in Free Pipe:	2.49641	2.30244	V
Gain:	32.1752	35.1802	
Offset:	0.873601	0.195827	