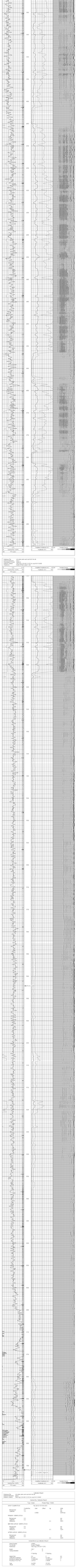

GAMMA RAY CCL
CEMENT BOND VDL

SUPERIOR WELL SERVICES

Company NOBLE ENERGY INC.
Well WELLS RANCH AA14-69-1HN
Field WATTENBERG
County WELD
State COLORADO

Company NOBLE ENERGY INC.

Well WELLS RANCH AA14-69-1HN

Field WATTENBERG

County WELD State COLORADO

Location: API #: 0512335614

BHL: 330' FNL & 535' FEL
NW/NW

SEC 14 TWP 6N RGE 63W

Other Services

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

Elevation
K.B. 4804
D.F.
G.L.

Date	AUGUST 22, 2012		
Run Number	ONE		
Depth Driller	11287		
Depth Logger	7032		
Bottom Logged Interval	7031		
Top Log Interval	SURFACE		
Open Hole Size	8-3/4		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	231 DEG. F		
Estimated Cement Top			
Time Well Ready	PORTABLE MAST		
Time Logger on Bottom	2-3/4 PROBE 110803		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	CEASAR MARTINEZ		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-55	24	675.4
Prot. String				
Production String	7	26# P-110	24	7102
Liner	4-1/2	11.6# P-110	7006.7	11272

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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 SUPERIOR WELL SERVICES!!!!!
LOG NOT CORRELATED
WCR 69 & WCR 68, E1.25, N1.25, W1, SW .25 INTO
NORTH WELL OF A 4 WELL PAD

Database File:	cbl noble wells ranch aa14-69-1hn.db
Dataset Pathname:	pass3
Presentation Format:	noble en
Dataset Creation:	Wed Aug 22 09:05:36 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Database File: cbl noble wells ranch aa14-69-1hn.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Wed Aug 22 08:49:12 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble wells ranch aa14-69-1hn.db
Dataset Pathname: pass2
Dataset Creation: Wed Aug 22 08:49:12 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Tue Jan 03 10:16:04 2012				
Background	0.0				cps
Calibrator	1.0				cps
		0.6800			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: Wed Aug 22 08:29:11 2012

Depth: 138.7 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	-0.00593262	-0.00603027	V
Reading in Free Pipe:	2.49729	2.46445	V
Gain:	24.4745	25.1631	
Offset:	1.0452	0.151741	