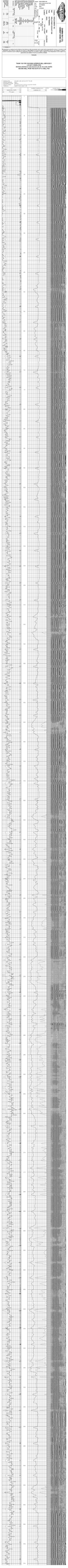

SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	WELLS RANCH AE 06-67-1HN
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.

Well WELLS RANCH AE 06-67-1HN

Field WATTENBERG

County WELD State COLORADO

Location: API #: 0512335567

BHL: 1650' FNL & 535' FWL

SE/NE

SEC 6 TWP 6N RGE 62W

Other Services

Permanent Datum GL Elevation 4932

Log Measured From KB

Drilling Measured From KB

Elevation

K.B. 4956

D.F.

G.L. 4932

Date	AUGUST 31, 2012
Run Number	ONE
Depth Driller	11118
Depth Logger	6549
Bottom Logged Interval	6548
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	217 DEG. F
Estimated Cement Top	1324
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	ERIC KLEM

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	653
Prot. String				
Production String	7	26# P-110	24	7045
Liner	4-1/2	11.6# P-110	6959.6	11103

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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, E 1.25, N1.25, E1, N.5, E1, N1, W.25, N INTO
SECOND WELL FROM THE SOUTH OF A 4 WELL PAD

Database File:	cbl noble wells ranch ae 06-67-1hn.db
Dataset Pathname:	pass3
Presentation Format:	noble en
Dataset Creation:	Fri Aug 31 09:43:13 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Database File: cbl noble wells ranch ae 06-67-1hn.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Fri Aug 31 09:29:27 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble wells ranch ae 06-67-1hn.db
Dataset Pathname: pass2
Dataset Creation: Fri Aug 31 09:29:27 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

SHOP CALIBRATION Tue Jan 03 10:16:04 2012

	Counts/Sec.	Gain	Offset	Jig	Units
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: Fri Aug 31 09:11:40 2012

Depth: 128.392 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.00317383	0.00273438	V
Reading in Free Pipe:	2.48381	2.41611	V
Gain:	24.4554	25.7585	
Offset:	1.42238	-0.0704335	