Company	NOBLE ENERGY INC.
Well	WELLS RANCH USX AE31-01P
Field	WATTENBERG
County	WELD
State	COLORADO

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.

Well WELLS RANCH USX AE31-01P

Field WATTENBERG

County WELD State COLORADO

Location: API #: 0512330915

831' FNL & 567' FEL
NE NE

SEC 31 TWP 6N RGE 62W

Other Services

Permanent Datum	GL	Elevation	4726	Elevation
Log Measured From	KB			K.B. 4742
Drilling Measured From	KB			D.F. 4741
				G.L. 4726

Date	JUNE 16, 2010
Run Number	ONE
Depth Driller	6788
Depth Logger	6725
Bottom Logged Interval	6724
Top Log Interval	1035
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	238 DEG. F
Estimated Cement Top	1262
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	1-11/16 GO TOOL
Equipment Number	3342
Location	45
Recorded By	GREG NOLAN
Witnessed By	E. ZWAAGSTRA

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	4-1/2	11.6	16	6786
Liner				

<<< Fold Here >>>

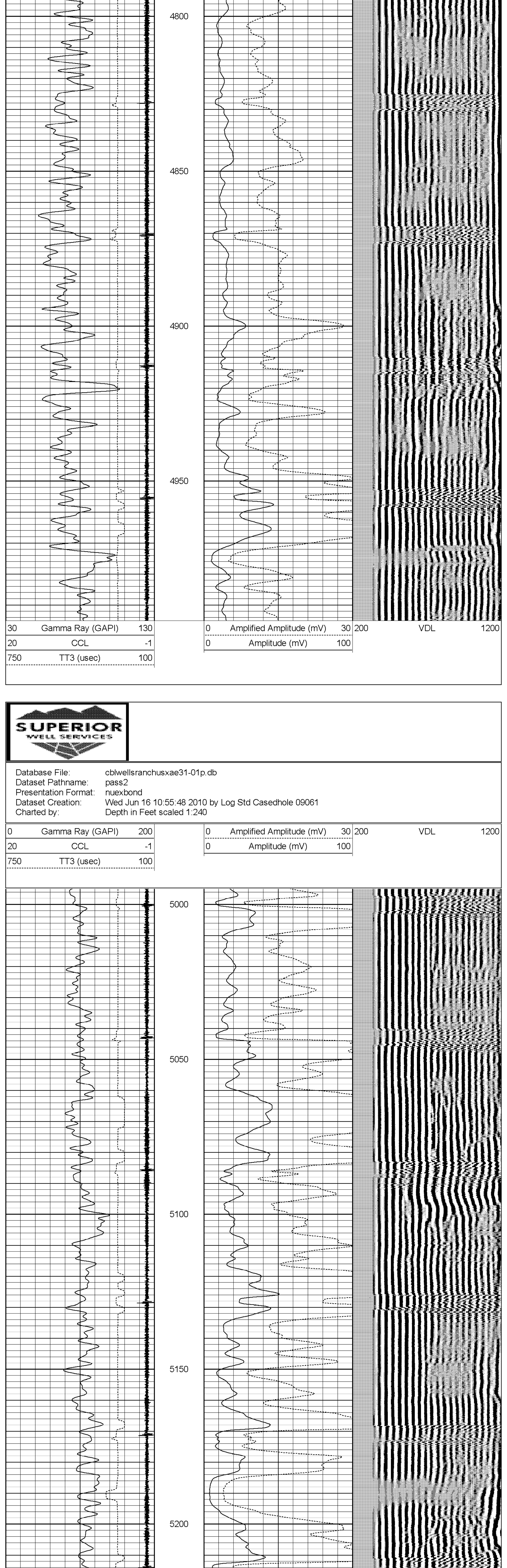
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 CORRELATED TO PSI OPEN HOLE LOG DATED JUNE 5, 2010
WELLS RANCH 67 & 68, E.2, S1.75, E2.75, S.5, E.5, NE INTO

Database File: cblwellsranchusxae31-01p.db
Dataset Pathname: pass3
Presentation Format: nuexbond
Dataset Creation: Wed Jun 16 11:11:53 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

30 Gamma Ray (GAPI) 130	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -1	0 Amplitude (mV) 100	
750 TT3 (usec) 100		



30 Gamma Ray (GAPI) 130	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -1	0 Amplitude (mV) 100	
750 TT3 (usec) 100		

SUPERIOR
WELL SERVICES

Database File: cblwellsranchusxae31-01p.db
Dataset Pathname: pass2
Presentation Format: nuexbond
Dataset Creation: Wed Jun 16 10:55:48 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 200	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -1	0 Amplitude (mV) 100	
750 TT3 (usec) 100		

0 Gamma Ray (GAPI) 200	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -1	0 Amplitude (mV) 100	
750 TT3 (usec) 100		

Calibration Report

Database File: cblwellsranchusxae31-01p.db
Dataset Pathname: pass2
Dataset Creation: Wed Jun 16 10:55:48 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	tlt/temp	
Tool Model:	temp/tlt	
Performed:	Thu Jun 10 12:00:50 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

CBL Calibration Report

Serial Number:	111		
Tool Model:	TekCo_GOI		
Performed:	Wed Jun 16 10:35:19 2010		
Depth:	245.250	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.200	1.200	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.006	-0.006	V
Reading in Free Pipe:	2.500	2.500	V
Gain:	31.923	31.924	
Offset:	1.389	1.385	