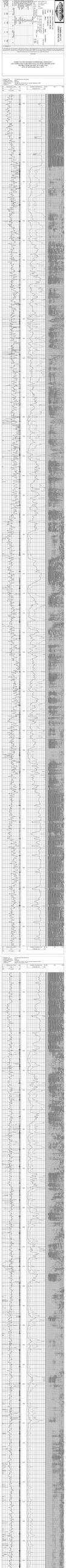

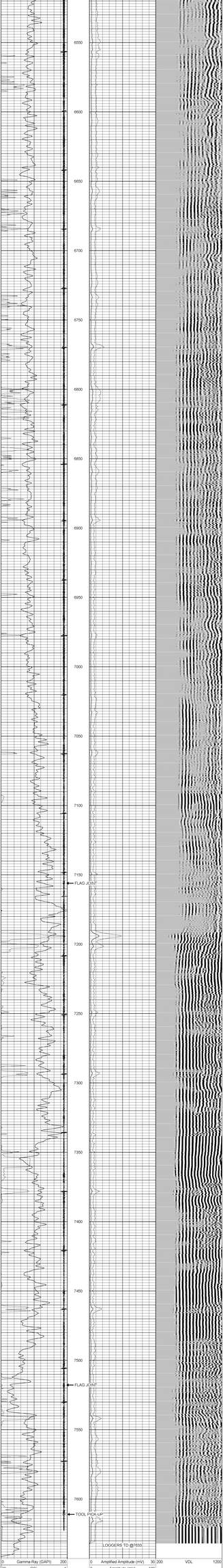

SUPERIOR WELL SERVICES

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	IGO FARMS J28-32D
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well IGO FARMS J28-32D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512330891
SHL: 1427' FNL & 996' FWL SWNW
BHL: 2570' FNL & 66' FWL SWNW
SEC 28 TWP 5N RGE 66W

Other Services

Permanent Datum	GL	Elevation 4876	Elevation K.B. 4892 D.F. 4891 G.L. 4876
Log Measured From	KB		
Drilling Measured From	KB		

Date	JANUARY 18, 2011
Run Number	ONE
Depth Driller	7729
Depth Logger	7633
Bottom Logged Interval	7632
Top Log Interval	2826
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	239 DEG. F
Estimated Cement Top	3011
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	SCOTT ARMSTRONG

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	16	619
Prot. String				
Production String	4-1/2	11.6	16	7713
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 SUPERIOR WELL SERVICES!!!!
LOG CORRELATED TO PSI OPEN HOLE LOG DATED JANUARY 8, 2011
3RD WELL FROM THE EAST OF A 4 WELL PAD
37TH ST. & 65TH AVE., W.4, S INTO

Database File:	cbl noble igo farms j28-32d.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Tue Jan 18 14:03:34 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

Database File:	cbl noble igo farms j28-32d.db
Dataset Pathname:	pass2
Presentation Format:	nuexbond
Dataset Creation:	Tue Jan 18 13:42:31 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble igo farms j28-32d.db
Dataset Pathname: pass2
Dataset Creation: Tue Jan 18 13:42:31 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Tue Sep 21 09:37:35 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

CBL Calibration Report

Serial Number:	111		
Tool Model:	TekCo_GOI		
Performed:	Tue Jan 18 13:23:07 2011		
Depth:	532.858	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.800	0.800	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	0.008	0.008	V
Reading in Free Pipe:	2.487	2.499	V
Gain:	32.429	32.276	
Offset:	0.543	0.546	