SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well HOFF PC D06-28D
Field WATTENBERG
County WELD
State COLORADO

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API # : 0512332161

Location:
SHL: 200' FNL & 1164' FWL SEC. 6
BHL: 2391' FWL & 150' FNL SEC. 6
SEC 6 TWP 3N RGE 64W

Other Services

Permanent Datum GL Elevation 4838
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4854
D.F. 4853
G.L. 4838

Date	NOVEMBER 10, 2010
Run Number	ONE
Depth Driller	7386
Depth Logger	7267
Bottom Logged Interval	7266
Top Log Interval	1148
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	243 DEG. F
Estimated Cement Top	1616
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	740
Prot. String				
Production String	4-1/2	11.6	16	7377
Liner				

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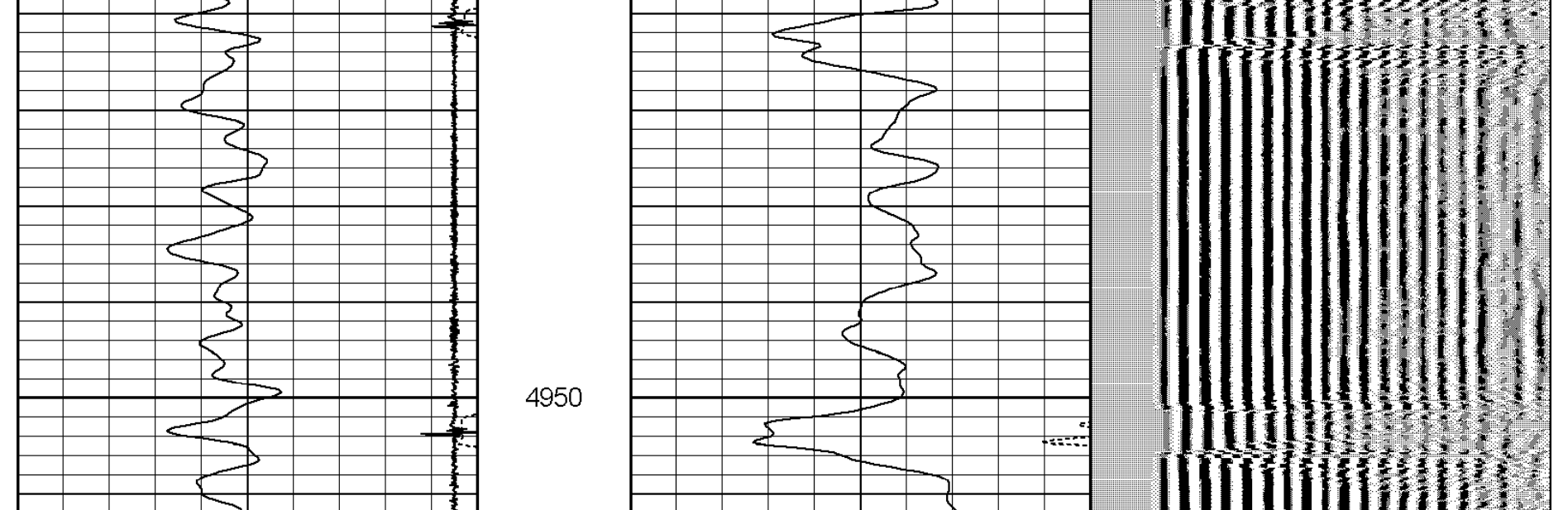
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 HALLIBURTON OPEN HOLE LOG DATED 30-OCT-10
WCR 49 & WCR 38, E.2, S INTO

Database File:	cblhoffpcd06-28d.db
Dataset Pathname:	pass7
Presentation Format:	nuexbond
Dataset Creation:	Wed Nov 10 14:15:44 2010 by Log Std Casedhole 10081
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	
340 TT3 (usec) 240		

Database File: cblhoffpcd06-28d.db
Dataset Pathname: pass6
Presentation Format: nuexbond
Dataset Creation: Wed Nov 10 13:55:42 2010 by Log Std Casedhole 10081
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	
340 TT3 (usec) 240		

0 Gamma Ray (GAPI) 200	0 Amplified Amplitude (mV) 30	200 VDL 1200
20 CCL -1	0 Amplitude (mV) 100	
340 TT3 (usec) 240		

Calibration Report

Database File: cblhoffpcd06-28d.db
Dataset Pathname: pass4
Dataset Creation: Wed Nov 10 13:55:11 2010 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:	Wed Nov 10 13:39:20 2010		
Depth:	1329.617	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.100	0.100	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	0.008	0.008	V
Reading in Free Pipe:	2.497	2.499	V
Gain:	32.580	32.558	
Offset:	-0.167	-0.160	