NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company NOBLE ENERGY INC.
Well FIVE M E21-73-1HN
Field WATTENBERG
County WELD
State COLORADO

Company NOBLE ENERGY INC.
Well FIVE M E21-73-1HN
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05123349220000
NW NE
BHL: 535' FNL & 1050' FEL
SEC 28 TWP 6N RGE 65W

Other Services

Permanent Datum	GL	Elevation 4704	Elevation
Log Measured From	KB 24'		K.B. 4728
Drilling Measured From	KB		D.F. 4727
			G.L. 4704

Date	November 27, 2012	
Run Number	One	
Depth Driller	11,448	
Depth Logger	7346	
Bottom Logged Interval	7345	
Top Log Interval	Surface	
Casing Size	7.00"	
Type Fluid	Water	
Max. Recorded Temp.	224 deg F	
Estimated Cement Top	450 est.	
Time Well Ready	Crane	
Time Logger On Bottom	PM	
Unit Number	4367	4515
Tool Size / ID Number	2.75 Tekco CBL	2.75 Tekco GR 2.75 Tekco CCL
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	B. Mansfield	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36 lb/ft J-55	Surface	778.9
Prot. String	7.00"	26 lb/ft P-110	Surface	7436.5
Production String				
Liner	4.50"	11.6 lb/ft P-110	7326.4	11,433

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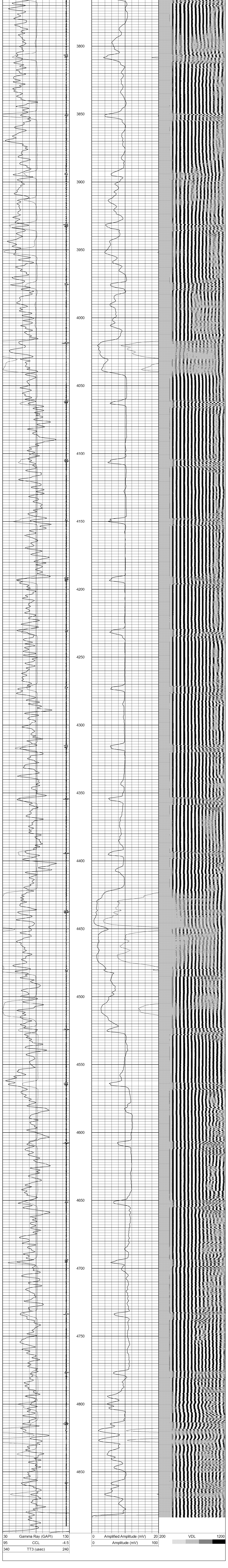
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Nabors Completion and Production Services CO!!
API# 05-123-34922-0000
Wireline Zero @ 24' KB
Directions: 66 & 43, W 1/2, S Into
(East Well of 2 Well Pad)

Database File: cblfive m e21-73-1hn.db
Dataset Pathname: pass4
Presentation Format: nuexbond
Dataset Creation: Tue Nov 27 13:44:01 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240



Database File: cblfive m e21-73-1hn.db
Dataset Pathname: pass3
Presentation Format: nuexbond
Dataset Creation: Tue Nov 27 13:20:35 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblfive m e21-73-1hn.db
Dataset Pathname: pass4
Dataset Creation: Tue Nov 27 13:44:01 2012 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	234GR-328	
Tool Model:	TekcoGR	
Performed:	Tue Nov 27 14:20:39 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.3000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234B35C-8013		
Tool Model:	TEKCO		
Performed:	Tue Nov 27 13:01:45 2012		
Depth:	415.250 ft		
Casing Diameter:	7.000 in		
	3' Spacing	5' Spacing	
Signal Zero:			mV
Calibrated Amplitude:			mV
Reading at Signal Zero:			V
Reading in Free Pipe:			V
Gain:			
Offset:			