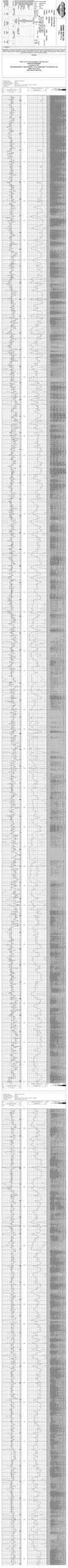

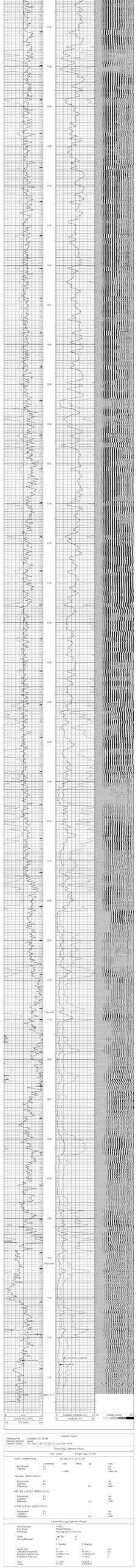

SUPERIOR WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company Noble Energy INC.
Well ADAMS D30-29D
Field Wattenberg
County Weld State Colorado

Location: API#: 05123356250000
SHL: 154' FNL & 2093' FWL NE NW
BHL: 75' FNL & 1260' FWL NE NW
LAT: 40.202992 / LONG:-104.595248
SEC 30 TWP 3N RGE 64W

Other Services

Permanent Datum GL Elevation 4782
Log Measured From KB 14'
Drilling Measured From KB

Elevation
K.B. 4796
D.F. 4796
G.L. 4782

Company Noble Energy INC.
Well ADAMS D30-29D
Field Wattenberg
County Weld
State Colorado

Date	August 23, 2012	
Run Number	One	
Depth Driller	7299	
Depth Logger	7222	
Bottom Logged Interval	7221	
Top Log Interval	1680	
Casing Size	4.50"	
Type Fluid	Water	
Max. Recorded Temp.	223 deg F	
Estimated Cement Top	2064 est.	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	ND	
Tool Size / ID Number	2.75 Probe 101010	2.75 Probe 110802
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	T. Settle	

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"	24lb/ft J-55	Surface	758
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7288.7
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!!!
API# 05-123-35625-0000
Correlated to HES's
Dual Spaced Neutron / Spectral Density / Array Compensated / True Resistivity Log
Dated: July 27, 2012
(West Well of 4 Well Pad)

Database File: cbladams d30-29d.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Thu Aug 23 09:21:22 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

80	CCL	-4	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

80	CCL	-4	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Database File: cbladams d30-29d.db
Dataset Pathname: pass2
Presentation Format: noble en
Dataset Creation: Thu Aug 23 08:56:43 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

80	CCL	-4	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100			
340	TT3 (usec)	240						

Calibration Report

Database File:	cbladams d30-29d.db
Dataset Pathname:	pass3
Dataset Creation:	Thu Aug 23 09:21:22 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION	Tue May 08 12:44:30 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:	110802		
Tool Model:	Probe275Digital		
Performed:	Thu Aug 23 06:53:48 2012		
Depth:	-344.042	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.000537109	-0.000341797	V
Reading in Free Pipe:	2.49861	2.35803	V
Gain:	32.2094	34.4288	
Offset:	0.7173	0.0117677	