SUPERIOR WELL SERVICES

CEMENT BOND LOG GAMMA RAY C C L V D L

Company	Noble Energy INC.
Well	SHELTON PC D 06-32D
Field	Wattenberg
County	Weld
State	Colorado

Company Noble Energy INC.
Well SHELTON PC D 06-32D
Field Wattenberg
County Weld State Colorado
Location: API #: 05123323040000
SHL: 2519' FSL & 2308' FWL
BHL: 2552' FNL & 82' FWL
LAT: 40.25396 DEG LONG: 104.59421 DEG
SEC 6 TWP 3N RGE 64W

Other Services

Permanent Datum	GL	Elevation 4824	Elevation
Log Measured From	KB 17'		K.B. 4841
Drilling Measured From	KB		D.F. 4840
			G.L. 4824

Date	February 24, 2011
Run Number	ONE
Depth Driller	7719
Depth Logger	7604
Bottom Logged Interval	7603
Top Log Interval	560
Casing Size	4 1/2"
Type Fluid	Water
Max. Recorded Temp.	251 deg F
Estimated Cement Top	1500 est.
Time Well Ready	Mast Truck
Time Logger On Bottom	PM
Unit Number	3344
Tool Size / ID Number	1 11/16 Tool 1 RED
Location	Platteville, CO
Recorded By	K.Monaghan
Witnessed By	M. Trimble

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 lb/ft J-55	Surface	702
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7709
Liner				

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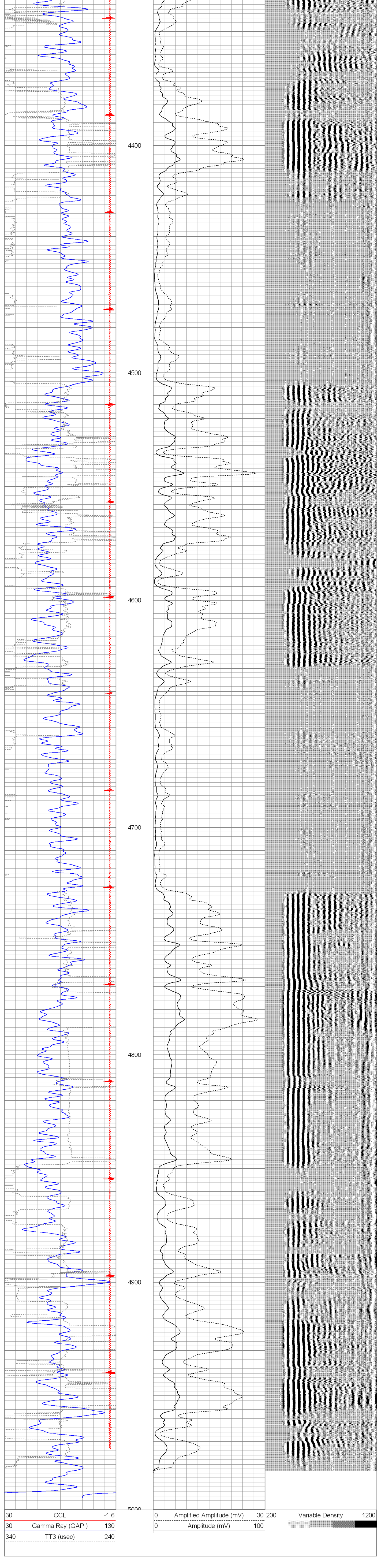
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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# 05-123-32304-0000
Correlated to HES's
Spectral Density / Dual Spaced Neutron / Array Compensated / True Resistivity / Gamma Ray
Dated: February 11, 2011
Directions: 49 & 36, E 1/2, N 1/2 Into
(Western most well of 4 well pad)

Database File:	cblshelton pc d06-32d.db
Dataset Pathname:	pass4
Presentation Format:	nuexcbl
Dataset Creation:	Thu Feb 24 13:35:13 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240



Database File: cblshelton pc d06-32d.db
Dataset Pathname: pass3
Presentation Format: nuexcbl
Dataset Creation: Thu Feb 24 13:08:34 2011 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblshelton pc d06-32d.db
Dataset Pathname: pass4
Dataset Creation: Thu Feb 24 13:35:13 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Mon Feb 21 13:11:47 2011	
Calibrator Value:	2.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Thu Feb 24 12:49:05 2011		
Depth:	844.525	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0124023	0.0127686	V
Reading in Free Pipe:	2.48835	2.49878	V
Gain:	32.5919	32.6612	
Offset:	0.0957835	-0.417036	