Company	St. James Energy Operating, INC
Well	HEIDENREICH 10-02
Field	Wattenberg
County	Weld
State	Colorado

SUPERIOR WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company	St. James Energy Operating, INC
Well	HEIDENREICH 10-02
Field	Wattenberg
County	Weld
State	Colorado

Location: API # : 051232971800
1987' FSL & 1979' FWL
NE SW
SEC 10 TWP 6N RGE 64W

Other Services
Perforate

Permanent Datum	GL	Elevation 4782	Elevation K.B. 4796 D.F. 4795 G.L. 4782
Log Measured From	KB		
Drilling Measured From	KB		

Date	August 4, 2010
Run Number	One
Depth Driller	7138
Depth Logger	7071
Bottom Logged Interval	7070
Top Log Interval	Surface
Casing Size	4 1/2"
Type Fluid	Water
Max. Recorded Temp.	238 deg F
Estimated Cement Top	169
Time Well Ready	Mast Truck
Time Logger On Bottom	8:20am
Unit Number	T5 (3344)
Tool Size / ID Number	1 11/16 Tool 1 RED
Location	Platteville, CO
Recorded By	K. Monaghan
Witnessed By	K. Moore

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4 1/2"	11.6 lb/ft	Surface	TD
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# 05-123-29718-00
Correlated to Phoenix Survey INC's
Compensated Density / Compensated Neutron / Dual Induction / Gamma Ray Microlog
Dated: November 16, 2009

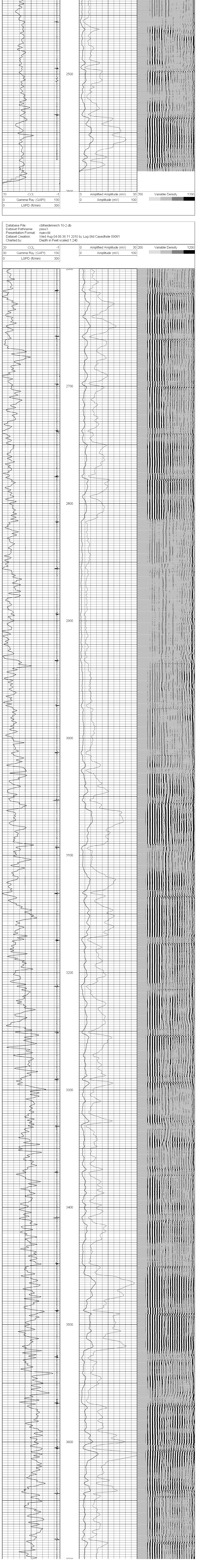
Database File:	cblheidenreich 10-2.db
Dataset Pathname:	pass4
Presentation Format:	nuexcbl
Dataset Creation:	Wed Aug 04 08:56:25 2010 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

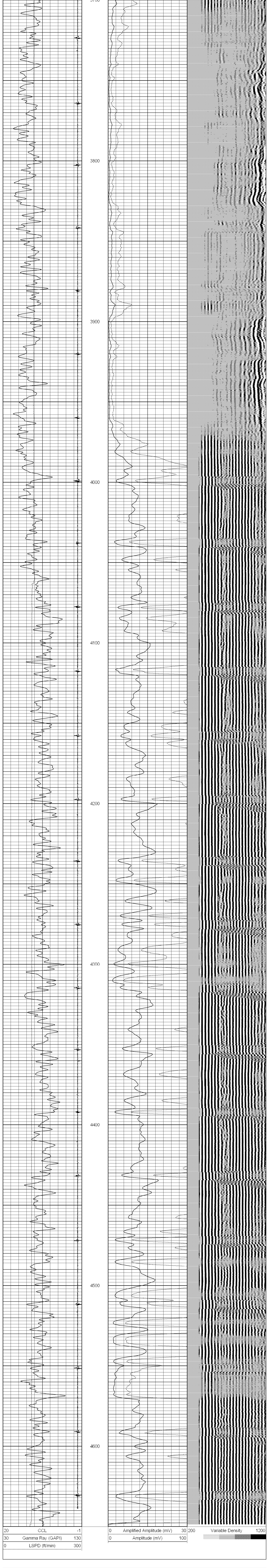
20 CCL -1
0 Gamma Ray (GAPI) 130
0 LSPD (ft/min) 300
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200

20 CCL -1
0 Gamma Ray (GAPI) 130
0 LSPD (ft/min) 300
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200

Database File:	cblheidenreich 10-2.db
Dataset Pathname:	pass3
Presentation Format:	nuexcbl
Dataset Creation:	Wed Aug 04 08:30:11 2010 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

20 CCL -1
0 Gamma Ray (GAPI) 130
0 LSPD (ft/min) 300
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200





Database File: cblheidenreich 10-2.db
Dataset Pathname: pass2
Presentation Format: nuexcbl
Dataset Creation: Wed Aug 04 08:14:03 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cblheidenreich 10-2.db
Dataset Pathname: pass1
Dataset Creation: Wed Aug 04 07:54:44 2010 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Wed Dec 16 07:15:29 2009	
Calibrator Value:	1.0	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:	Fri Jul 30 06:57:16 2010		
Depth:	474.8	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:	0.00500488	0.0389648	V
Reading in Free Pipe:	2.5	2.5	V
Gain:	32.263	32.9927	
Offset:	0.538527	-1.28555	