PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company PRONGHORN OPERATING, LLC.
Well PEPPER #1
Field CHEYNNE WELLS
County CHEYENNE
State COLORADO

Location: API #: 05-017-07782-000
1691' FNL & 2034' FEL
SEC 5 TWP 14S RGE 44W

Country USA

Other Services

Permanent Datum GROUND LEVEL Elevation 4261
Log Measured From KELLY BUSHING 17' AGL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4281
D.F. 4280
G.L. 4261

Company PRONGHORN OPERATING, LLC.
Well PEPPER #1
Field CHEYNNE WELLS
County CHEYENNE
State COLORADO Country USA

Date	3-28-2014	
Run Number	ONE	
Depth Driller	5465	
Depth Logger	5431	
Bottom Logged Interval	5427	2460
Top Log Interval	3700	1000
Open Hole Size	7 7/8"	
Type Fluid	WATER	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top	3980	
Time Well Ready		
Time Logger on Bottom		
Equipment Number	TR-4	
Location	CHEYENNE WELLS, CO.	
Recorded By	HENDERSON	
Witnessed By	JAKE FLORA	JOSH KLIESEN

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17 1/2"	0	438				
TWO	12 1/4"	438	1613				
THREE	7 7/8"	1613	5465				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	48#	0	438
Prot. String				
Production String	5 1/2"	15.5#	0	5465
Liner				

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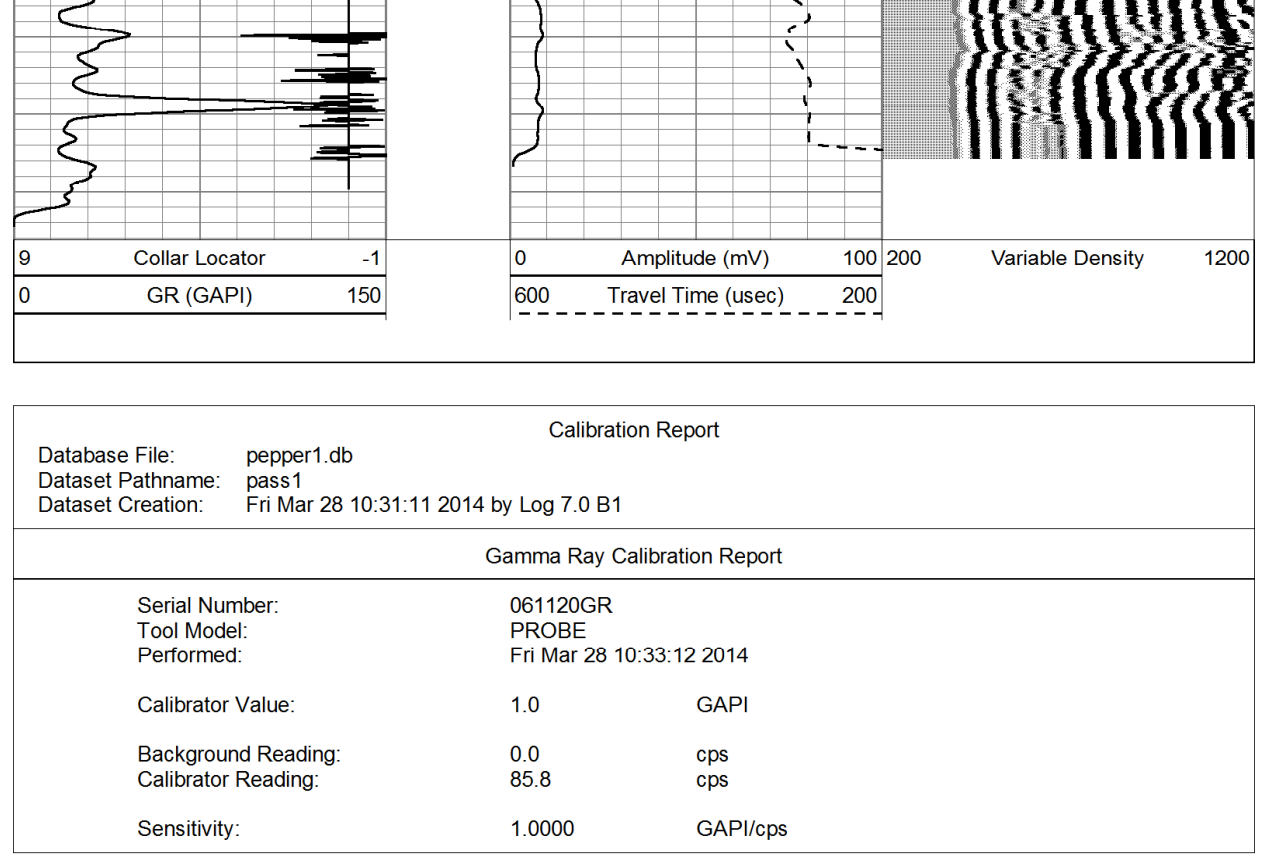
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Database File: pepper1.db
Dataset Pathname: pass3
Presentation Format: cbldig
Dataset Creation: Fri Mar 28 11:04:19 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

Database File: pepper1.db
Dataset Pathname: pass2.1
Presentation Format: cbldig
Dataset Creation: Fri Mar 28 11:03:02 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Database File: pepper1.db
Dataset Pathname: pass1
Presentation Format: cbldig
Dataset Creation: Fri Mar 28 10:31:11 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: pepper1.db
Dataset Pathname: pass1
Dataset Creation: Fri Mar 28 10:31:11 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Fri Mar 28 10:33:12 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	85.8	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	5.5dig040201		
Tool Model:	Probe275Digital		
Performed:	Fri Mar 28 10:33:20 2014		
Depth:	1010.15	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.5	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0263818	0.00270996	V
Reading in Free Pipe:	2.22065	2.24365	V
Gain:	31.7846	32.0941	
Offset:	1.33853	-0.0869737	