PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company	PRONGHORN OPERATING, LLC.
Well	BETTY #1
Field	LADDER CREEK
County	CHEYENNE
State	COLORADO

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Location
660' FNL & 660' FWL
NW NW
SEC 6 TWP 15S RGE 44W

Other Services

Permanent Datum	GROUND LEVEL	Elevation 4302	Elevation
Log Measured From	KELLY BUSHING 12' AGL		K.B. 4314
Drilling Measured From	KELLY BUSHING		D.F. 4313
			G.L. 4302

Date	10-23-2013		
Run Number	ONE		
Depth Driller	5481		
Depth Logger	5381	4270	2500
Bottom Logged Interval	5377	4270	2500
Top Log Interval	4970	3200	470
Casing Size	5 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-8		
Location	CHEYENNE WELLS, CO.		
Recorded By	HENDERSON		
Witnessed By	ZANE KUENZLER		

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17 1/2"	0	472				
TWO	12 1/4"	472	1596				
THREE	7 7/8"	1596	5481				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	54#	0	
Prot. String	8 5/8"	24#	0	1596
Production String	5 1/2"	15.5?#	0	5405
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: 1betty.db
Dataset Pathname: pass4
Presentation Format: cbldig
Dataset Creation: Wed Oct 23 09:24:11 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

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0 GR (GAPI) 150	800 Travel Time (usec) 200	

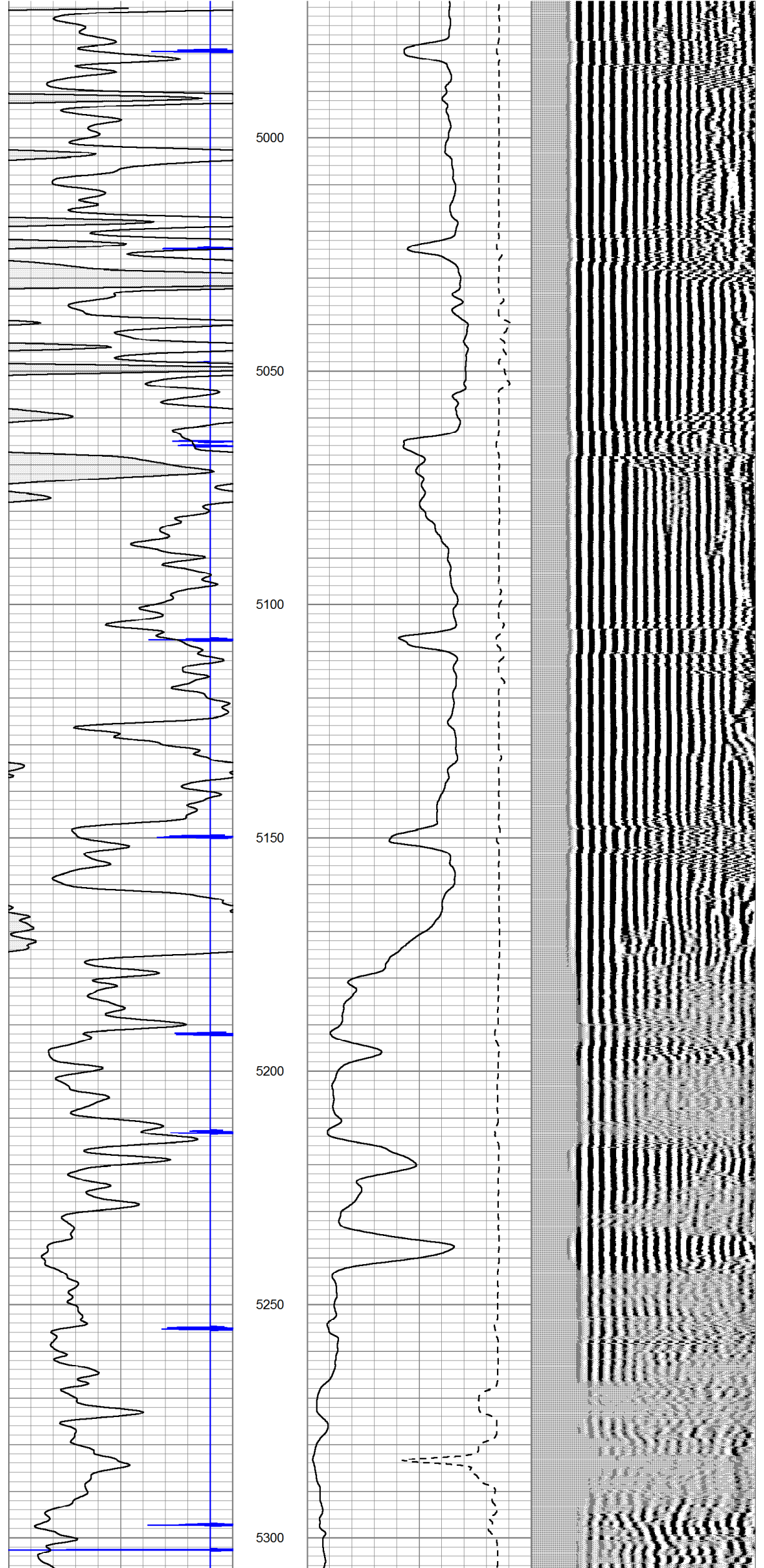
Database File: 1betty.db
Dataset Pathname: pass3
Presentation Format: cbldig
Dataset Creation: Wed Oct 23 09:01:52 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

Database File: 1betty.db
Dataset Pathname: pass2
Presentation Format: cbldig
Dataset Creation: Wed Oct 23 08:50:19 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

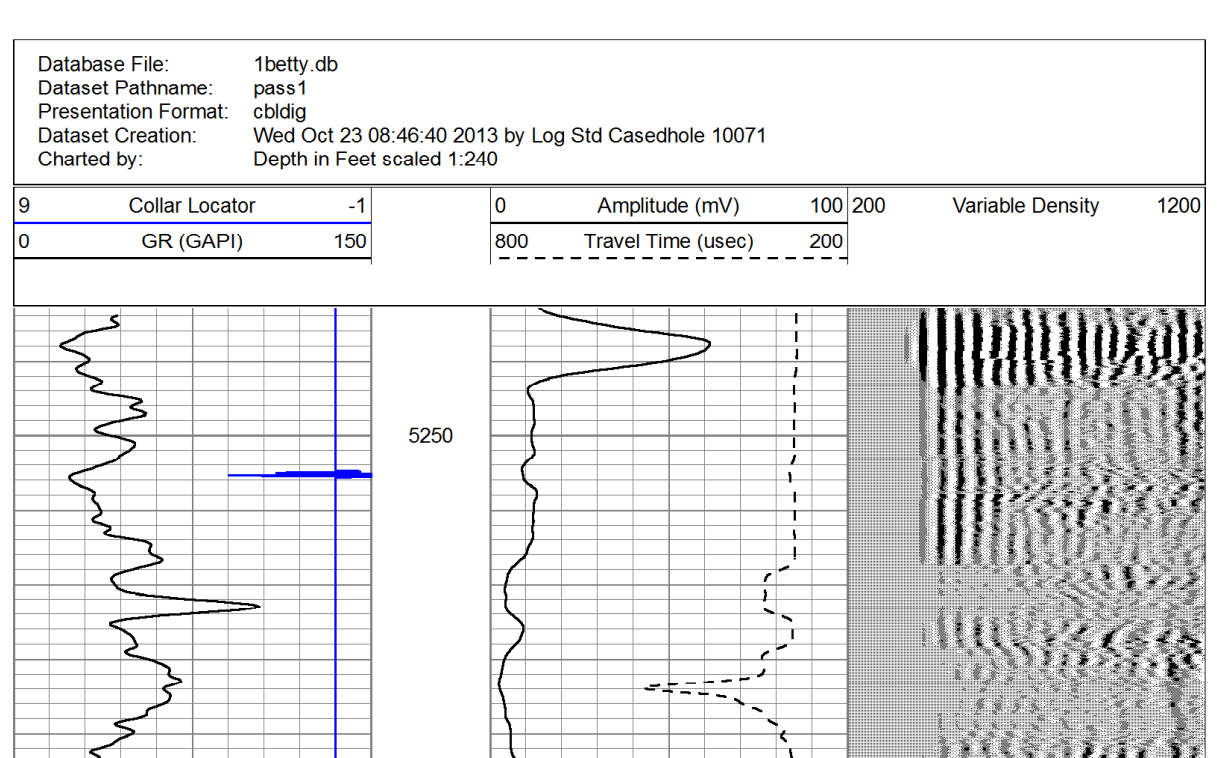
9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

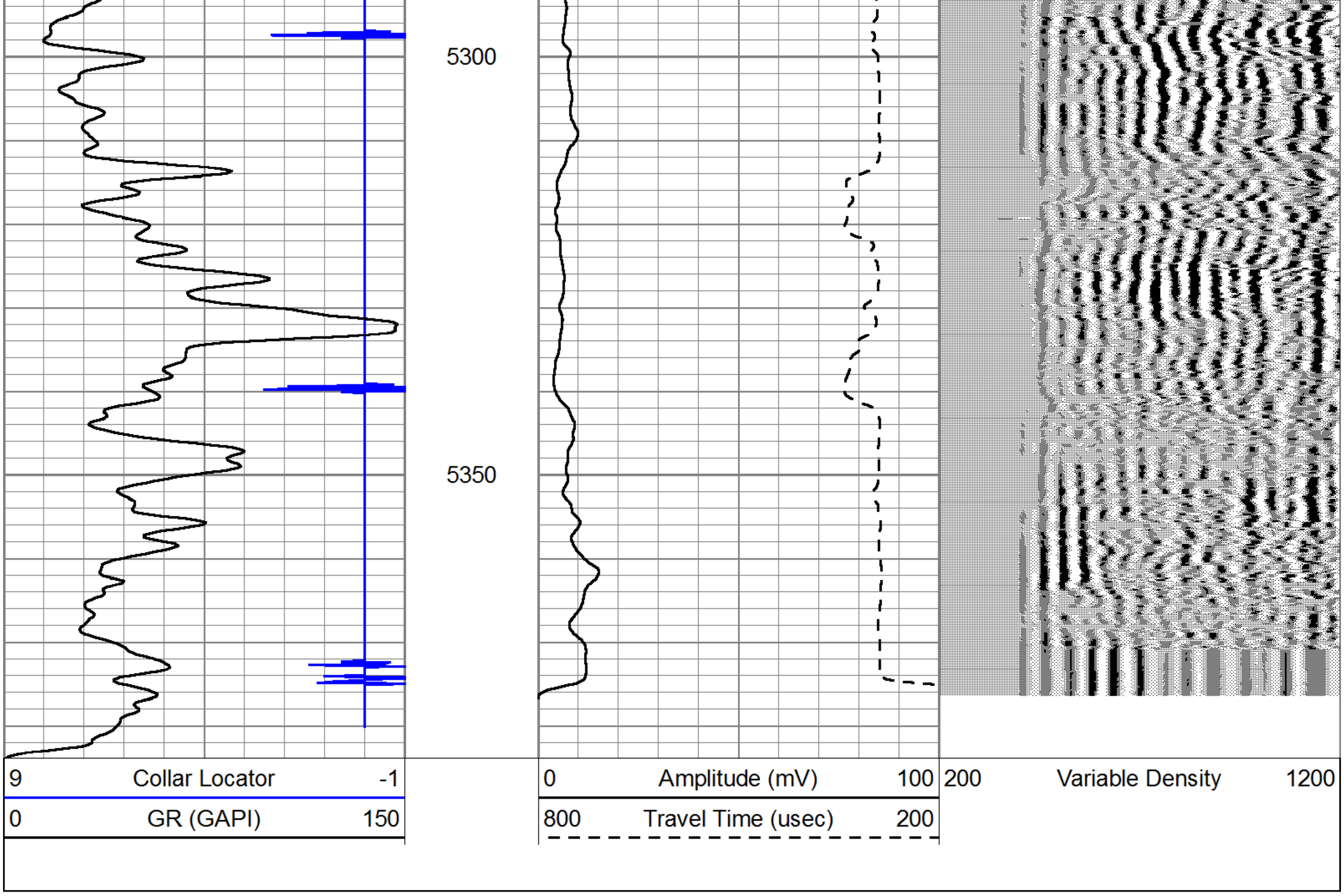


9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

Database File: 1betty.db
Dataset Pathname: pass1
Presentation Format: cbldig
Dataset Creation: Wed Oct 23 08:46:40 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	





Calibration Report

Database File: 1betty.db
Dataset Pathname: pass3
Dataset Creation: Wed Oct 23 09:01:52 2013 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Fri Aug 09 11:38:03 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	5.5dig040201	
Tool Model:	Probe275Digital	
Performed:	Wed Oct 23 09:04:05 2013	
Depth:	0	ft
Casing Diameter:	5.5	in

	3' Spacing	5' Spacing	
Signal Zero:	0.25	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.010376	0.0136719	V
Reading in Free Pipe:	2.08079	2.003	V
Gain:	34.6167	36.1534	
Offset:	-0.109183	-0.494284	