PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

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

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Location: API #: 05-017--7751
620' FSL & 660' FEL
SEC 6 TWP 14S RGE 44W

Other Services

Permanent Datum GROUND LEVEL Elevation 4326
Log Measured From KELLY BUSHING 17' AGL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4326
D.F. 4325
G.L. 4309

Date	8-6-2013	
Run Number	ONE	
Depth Driller	5622	
Depth Logger	5599	2550
Bottom Logged Interval	5595	850
Top Log Interval	4050	
Open Hole Size	7 7/8"	
Type Fluid	WATER	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top	4146	980
Time Well Ready		
Time Logger on Bottom		
Equipment Number	TR-4	
Location	CHEYENNE WELLS, CO.	
Recorded By	HENDERSON	
Witnessed By	JAKE FLORA	ZANE KUENZLER

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17 1/2"	0	464				
TWO	12 1/4"	464	1650				
THRE	7 7/8"	1650	5622				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	54#	0	464
Prot. String				
Production String	5 1/2"	15.5#	0	5613
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

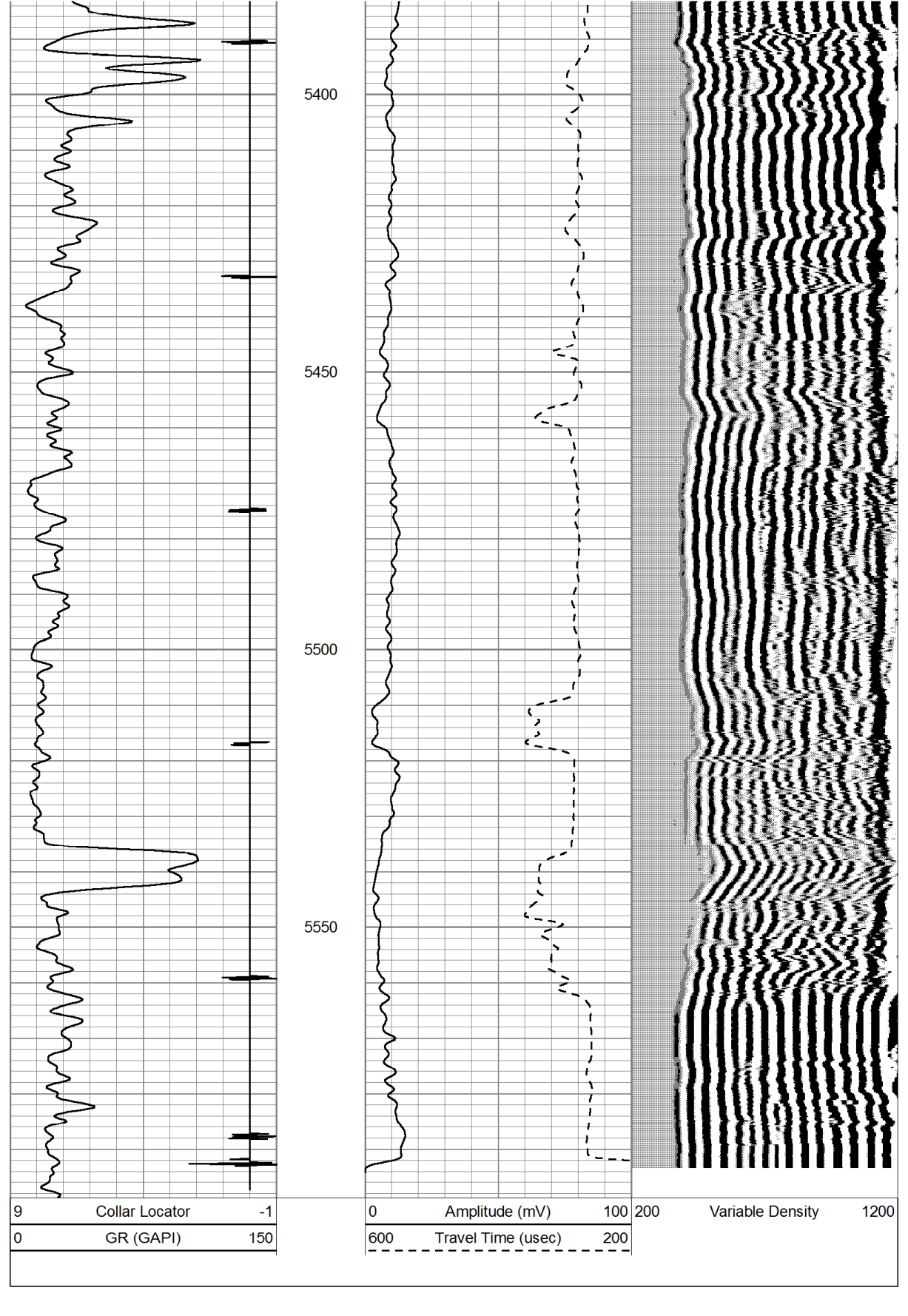
Database File: nattie.db
Dataset Pathname: 1/run1/pass3.1
Presentation Format: cbldig
Dataset Creation: Tue Aug 06 11:18:14 2013 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Database File: nattie.db
Dataset Pathname: 1/run1/pass2.1
Presentation Format: cbldig
Dataset Creation: Tue Aug 06 10:46:52 2013 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

PEAK WIRELINE SERVICES, INC.

REPEAT SECTION

Database File: nattie.db
Dataset Pathname: 1/run1/pass1
Presentation Format: cbldig
Dataset Creation: Tue Aug 06 10:09:17 2013 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: nattie.db
Dataset Pathname: 1/run1/pass2.1
Dataset Creation: Tue Aug 06 10:46:52 2013 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Tue Jul 09 12:56:40 2013	
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:	Tue Aug 06 09:57:52 2013		
Depth:	16	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:	0.0158447	0.0172852	V
Reading in Free Pipe:	2.21084	1.88264	V
Gain:	32.5381	38.5562	
Offset:	-0.0155566	-0.666449	