PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company	PRONGHORN OPERATING LLC
Well	KERN-SHARPE 1-22
Field	
County	CHEYENNE
State	COLORADO

Company PRONGHORN OPERATING LLC

Well KERN-SHARPE 1-22

Field

County CHEYENNE State COLORADO

Location SW NW
SEC 22 TWP 13S RGE 44W

Other Services

Permanent Datum GROUND LEVEL Elevation 4235
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B.
D.F.
G.L.]

Date	3-4-2103
Run Number	ONE
Depth Driller	4950
Depth Logger	4902 2690
Bottom Logged Interval	4898 2690
Top Log Interval	4040 482
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	JAKE FLORA

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	347				
TWO	7 7/8"	347	5402				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	0	347
Prot. String				
Production String	5 1/2"	15.5#	0	4950
Liner				

<<< Fold Here >>>

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

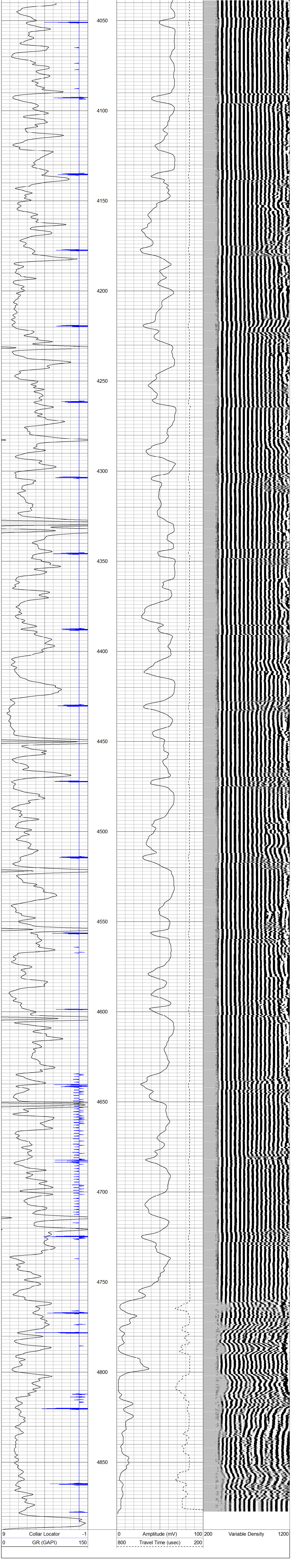
Database File: kernsharpe.db
Dataset Pathname: pass6
Presentation Format: cbldig
Dataset Creation: Mon Mar 04 08:21:45 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

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: kernsharpe.db
Dataset Pathname: pass5
Presentation Format: cbldig
Dataset Creation: Mon Mar 04 08:03:31 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

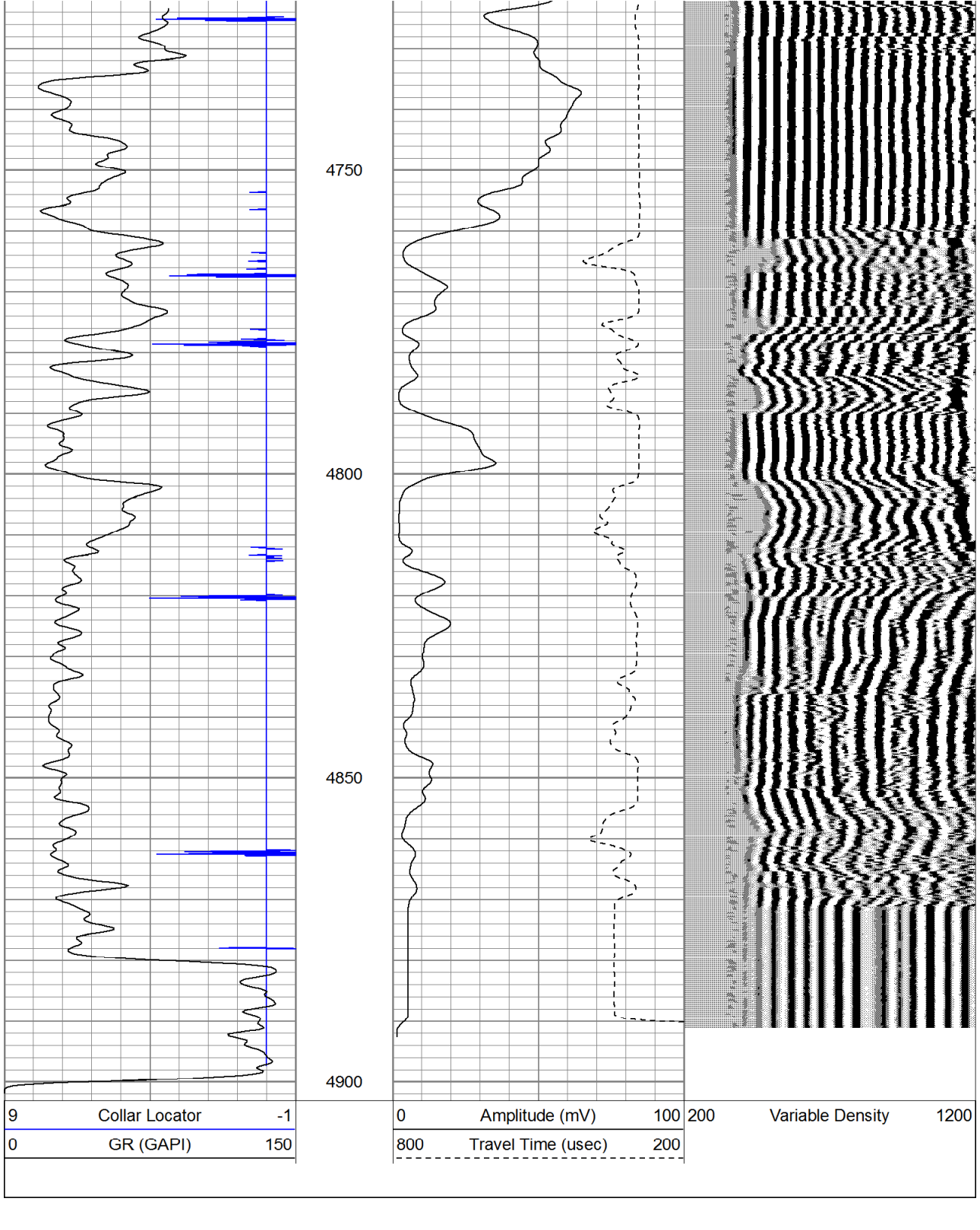
9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	



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

Database File: kernsharpe.db
Dataset Pathname: pass4
Presentation Format: cbldig
Dataset Creation: Mon Mar 04 07:58:24 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	

Calibration Report

Database File: kernsharpe.db
Dataset Pathname: pass2
Dataset Creation: Sat Sep 22 08:37:46 2012 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Mon Sep 17 07:31:14 2012	
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:	Sat Sep 22 08:32:19 2012		
Depth:	0	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.00856934	0.0131836	V
Reading in Free Pipe:	2.22998	2.23206	V
Gain:	32.3763	32.4133	
Offset:	-0.277443	-0.427324	