PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company	MID-CON ENERGY		
Well	HRMU #11-13		
Field	HARKER RANCH		
County	CHEYENNE	State	COLORADO

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Location
600' FNL & 760' FWL NW/4
SW NE NW NW
SEC 13 TWP 13S RGE 43W

Other Services

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

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

Date	9-24-2014		
Run Number	ONE		
Depth Driller			
Depth Logger	5411		
Bottom Logged Interval	5407		
Top Log Interval	1100		
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			

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

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

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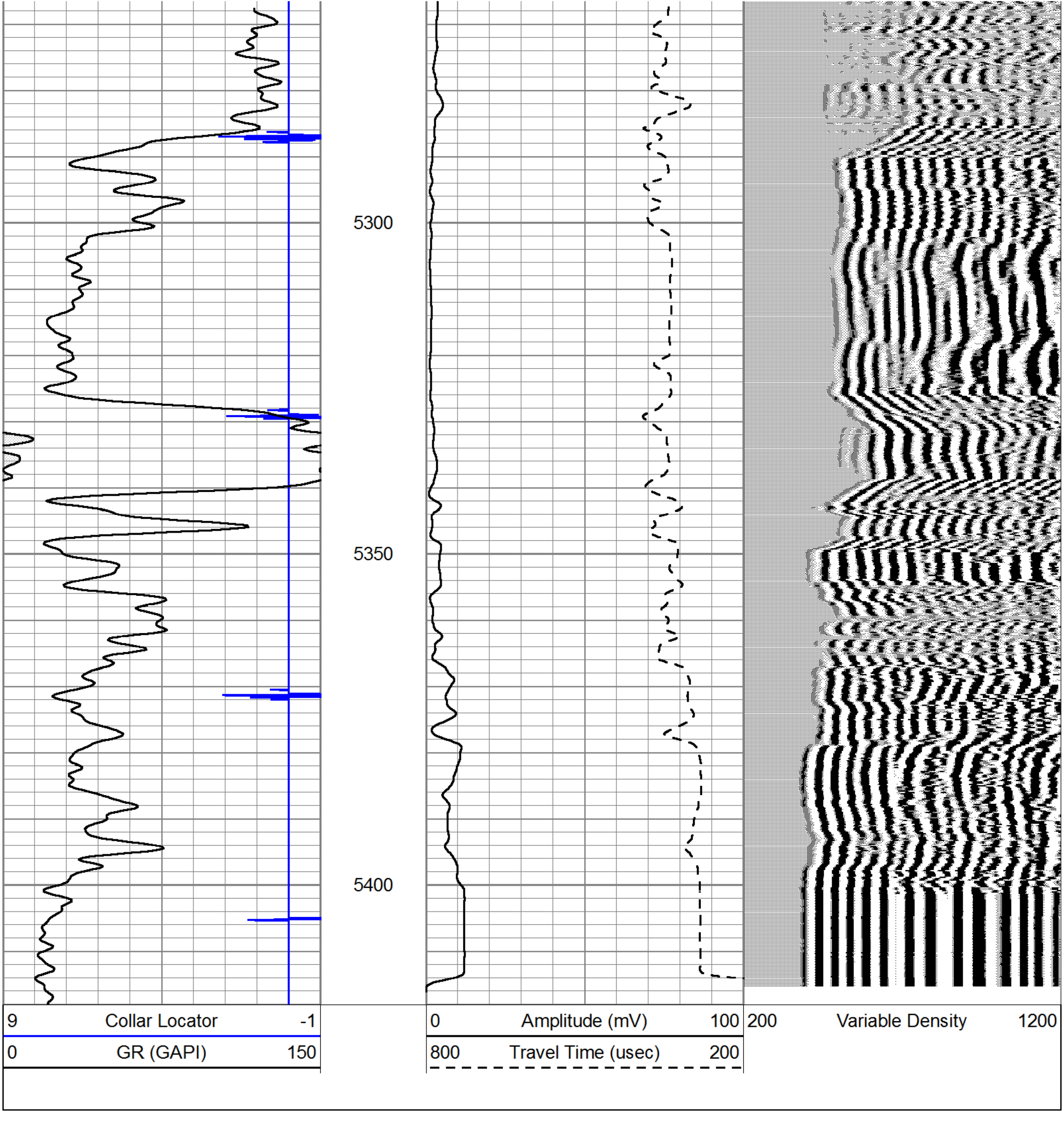
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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: hrmu1113.db
Dataset Pathname: pass8
Presentation Format: cbldig
Dataset Creation: Wed Sep 24 17:11:39 2014 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

Database File:	hrmu1113.db
Dataset Pathname:	pass7
Presentation Format:	cbldig
Dataset Creation:	Wed Sep 24 17:07:44 2014 by Log Std Casedhole 10071
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	hrmu1113.db
Dataset Pathname:	pass1
Dataset Creation:	Wed Sep 24 16:24:30 2014 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Tue Jul 08 12:29:35 2014	
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 Sep 24 16:12:22 2014		
Depth:	87.75	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:	0.0121094	0.0164795	V
Reading in Free Pipe:	2.33103	1.54458	V
Gain:	30.907	47.0656	
Offset:	-0.124265	-0.775618	