PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company MULL DRILLING COMPANY, INC.
Well APC-DOUG #1-25
Field LOMA
County CHEYENNE
State COLORADO

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Location
825' FSL & 1620'FEL
SW SE
SEC 25 TWP 16S RGE 45W

Other Services

Permanent Datum	GROUND LEVEL	Elevation	4295
Log Measured From	KELLY BUSHING 11' AGL		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 4306
D.F. 4304
G.L. 4295

Date	12-28-2012		
Run Number	ONE		
Depth Driller	5560		
Depth Logger	5442	2900	
Bottom Logged Interval	5438	30	
Top Log Interval	3500		
Casing Size	5 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top	3630		
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-8		
Location	CHEYENNE WELLS, CO.		
Recorded By	HENDERSON		
Witnessed By	TRACEY AKERS		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	323				
TWO	7 7/8"	323	5560				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	23#	0	323
Prot. String				
Production String	5 1/2"'	14#	0	5480
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

PEAK WIRELINE SERVICES, INC.

PORT COLLAR

Database File: apcdoug.db
Dataset Pathname: 1-25/run1/pass4
Presentation Format: cbldig
Dataset Creation: Fri Dec 28 11:02:41 2012 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

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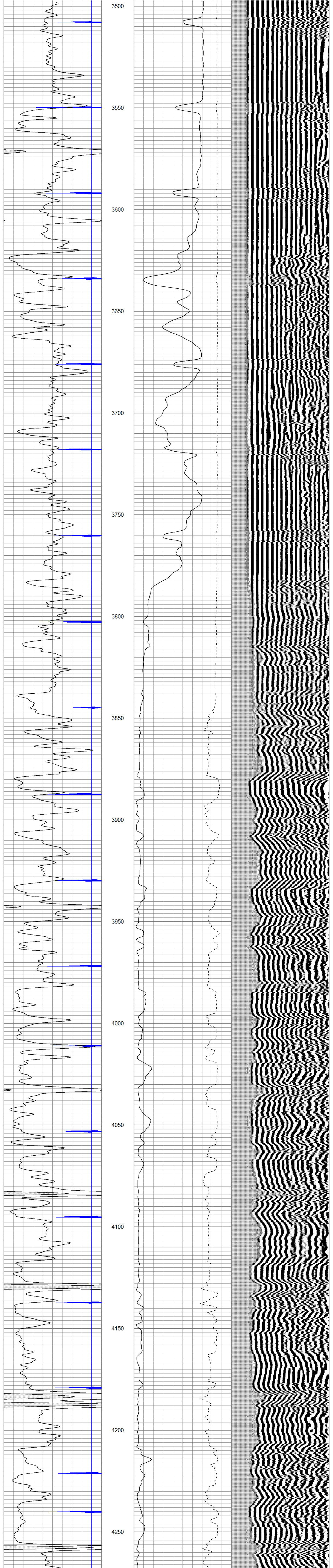
MAIN PASS

Database File: apcdoug.db
Dataset Pathname: 1-25/run1/pass2
Presentation Format: cbldig
Dataset Creation: Fri Dec 28 10:13:56 2012 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240



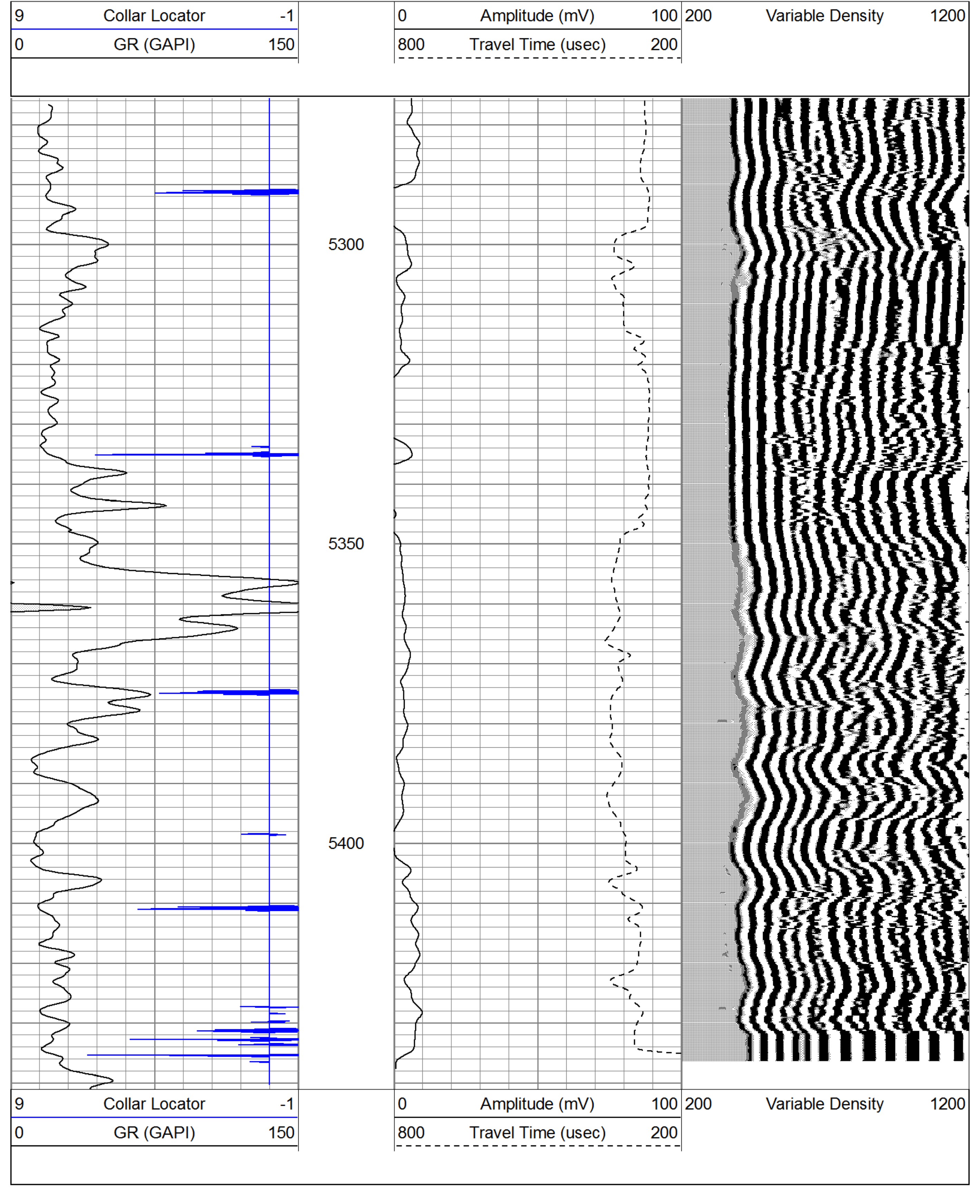
9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	800 Travel Time (usec) 200	

PEAK WIRELINE SERVICES, INC.

REPEAT SECTION

Database File:	apcdoug.db
Dataset Pathname:	1-25/run1/pass1
Presentation Format:	cbldig
Dataset Creation:	Fri Dec 28 10:08:07 2012 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:	apcdoug.db
Dataset Pathname:	1-25/run1/pass1
Dataset Creation:	Fri Dec 28 10:08:07 2012 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Fri Nov 09 13:29:36 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	85.8	cps
Sensitivity:	1.1000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	5.5dig040201		
Tool Model:	Probe275Digital		
Performed:	Fri Dec 28 10:05:41 2012		
Depth:	0	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.00964355	0.0128662	V
Reading in Free Pipe:	2.31604	2.33301	V
Gain:	30.7497	30.9985	
Offset:	0.703464	-0.398834	