PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company	MULL DRILLING COMPANY, INC.
Well	TSA UNIT #1-14
Field	WILDCAT
County	KIOWA
State	COLORADO

Company MULL DRILLING COMPANY, INC.

Well TSA UNIT #1-14

Field WILDCAT

County KIOWA State COLORADO

Location 2150' FNL & 171' FWL
SEC 14 TWP 17S RGE 45W

Other Services

Permanent Datum	GROUND LEVEL	Elevation 4129	Elevation
Log Measured From	KELLY BUSHING 11' AGL		K.B. 4140
Drilling Measured From	KELLY BUSHING		D.F. 4138 G.L. 4129

Date	3-19-2012	
Run Number	ONE	
Depth Driller	5300	
Depth Logger	5285	
Bottom Logged Interval	5281	2700
Top Log Interval	3230	100
Casing Size	5 1/2"	
Type Fluid	WATER	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top	3380	
Time Well Ready		
Time Logger on Bottom		
Equipment Number	TR-4	
Location	CHEYENNE WELLS, CO	
Recorded By	HENDERSON	
Witnessed By	JERRY ROANE	

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	352				
TWO	7 7/8"	352	5300				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	23#	0	352
Prot. String				
Production String	5 1/2"	17#	0	5300
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

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PORT COLLAR

Database File: tsa.db
Dataset Pathname: 114/run1/pass3
Presentation Format: cbldig
Dataset Creation: Mon Mar 19 07:22:05 2012 by Log Std Casedhole 07081
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		

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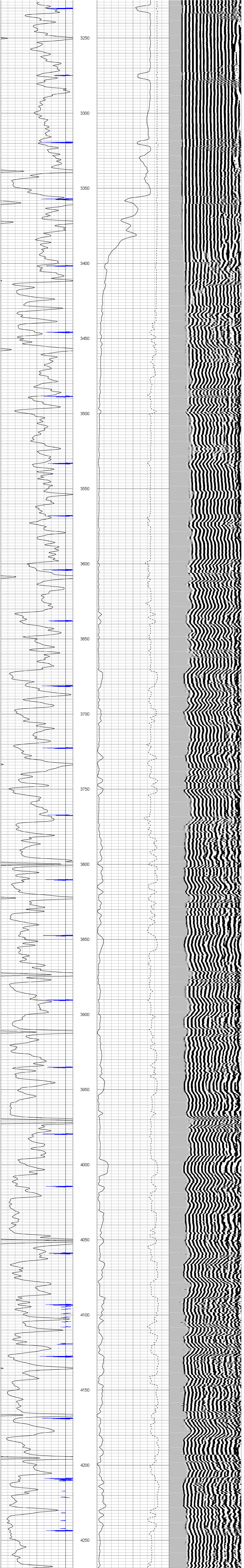
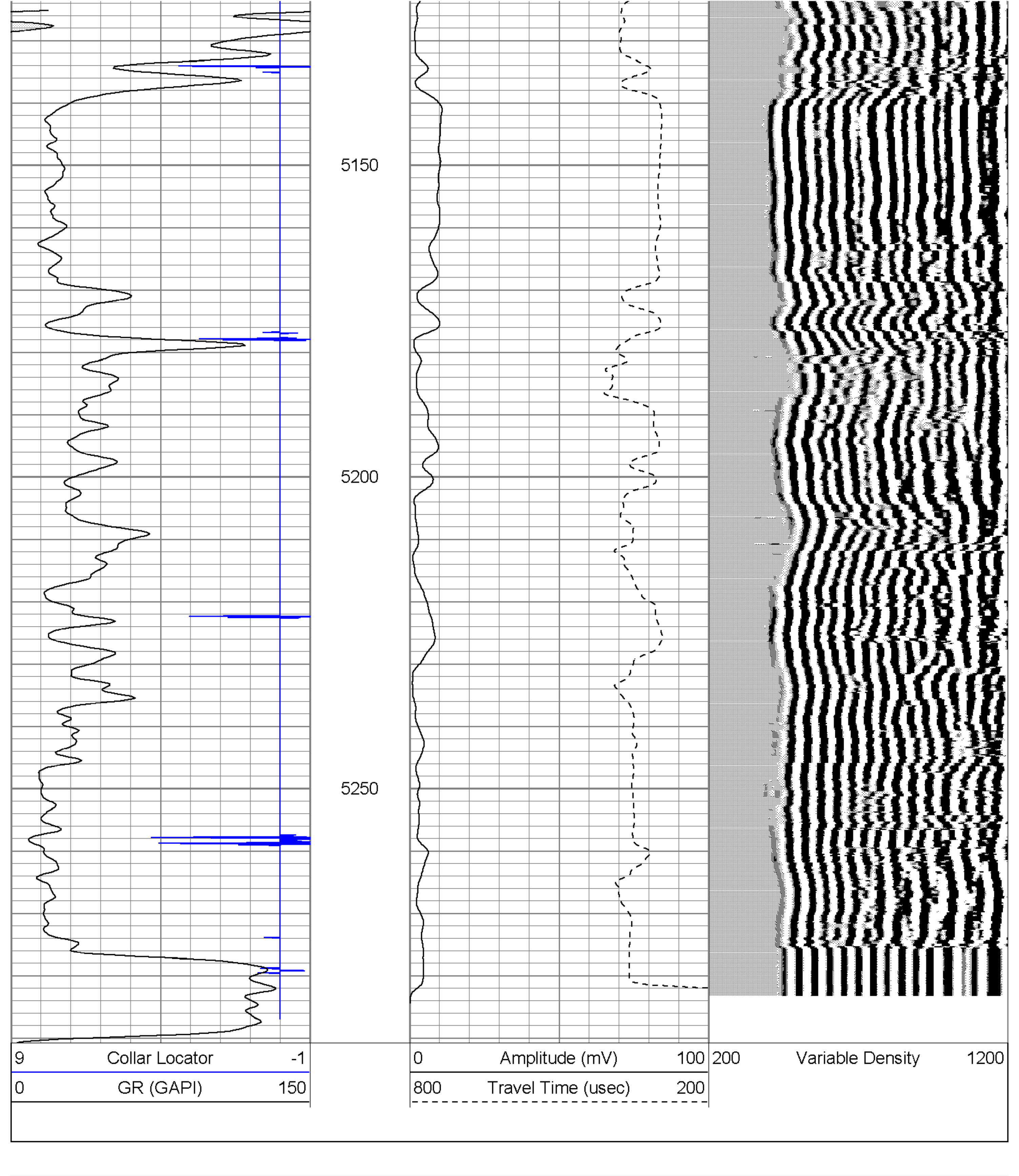
MAIN PASS

Database File: tsa.db
Dataset Pathname: 114/run1/pass2
Presentation Format: cbldig
Dataset Creation: Mon Mar 19 06:40:01 2012 by Log Std Casedhole 07081
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		



Database File: tsa.db
Dataset Pathname: 114/run1/pass1
Presentation Format: cbldig
Dataset Creation: Mon Mar 19 06:34:16 2012 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: tsa.db
Dataset Pathname: 114/run1/pass2
Dataset Creation: Mon Mar 19 06:40:01 2012 by Log Std Casedhole 07081

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Mon Mar 19 06:50:57 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	1.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	5.5dig040201		
Tool Model:	Probe275Digital		
Performed:	Mon Mar 19 06:26:06 2012		
Depth:	0.00833333	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:	-0.0110352	-0.0032959	V
Reading in Free Pipe:	2.26885	2.27908	V
Gain:	31.5459	31.5115	
Offset:	0.348114	0.103859	