PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company CRUSADER ENERGY GROUP, LLC
Well BAR-B-4 RANCH
Field WALSH
County BACO
State COLORADO

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Location
SEC 15 TWP 32S RGE 43W

Other Services

			Elevation
Permanent Datum	GROUND LEVEL	Elevation 3879	K.B. 3890
Log Measured From	KELLY BUSHING 11' AGL		D.F. 3888
Drilling Measured From	KELLY BUSHING		G.L. 3879

Date	4-28-08		
Run Number	ONE		
Depth Driller	3420		
Depth Logger	3355		
Bottom Logged Interval	3355		
Top Log Interval	1850		
Casing Size	4 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top	1972		
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-M7		
Location	CHEYENNE WELLS, CO		
Recorded By	HENDERSON		
Witnessed By	DON BUSBY		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17 1/2":	0	849				
TWO	7 7/8"	849	3420				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	36#	0	849
Prot. String				
Production String	4 1/2"	10.5#	0	3420
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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MAIN PASS

Database File: cbarb4ranch.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Mon Apr 28 12:32:10 2008 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240

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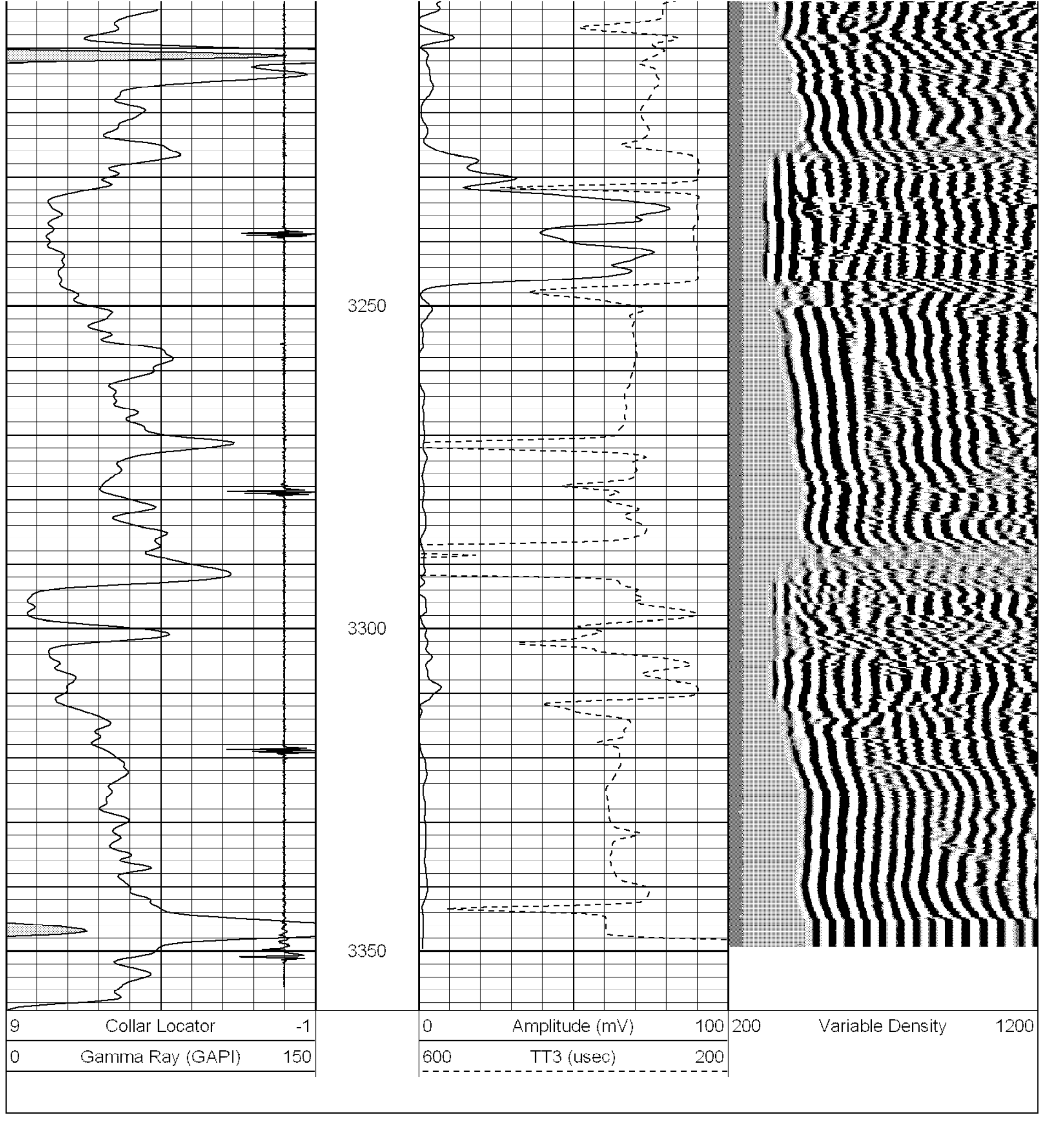
REPEAT SECTION

Database File: cbarb4ranch.db
Dataset Pathname: pass1
Presentation Format: cbl_dr
Dataset Creation: Mon Apr 28 12:27:04 2008 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: cbarb4ranch.db
Dataset Pathname: pass1
Dataset Creation: Mon Apr 28 12:27:04 2008 by Log Std Casedhole 07081

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Tue Apr 08 16:20:31 2008	
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:	602		
Tool Model:	Pengo		
Performed:	Mon Apr 28 12:26:49 2008		
Depth:	816.815	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:	-0.0078125	0.00109863	V
Reading in Free Pipe:	2.14836	2.14966	V
Gain:	32.892	33.4741	
Offset:	1.25697	-0.0367757	