PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company CRUSADER ENERGY, INC.
Well BURHENN 1-12
Field WALSH
County BACA
State COLORADO

Company	CRUSADER ENERGY, INC.
Well	BURHENN 1-12
Field	WALSH
County	BACA
State	COLORADO

Location
1322' FSL & 1465' FWL
SEC 12 TWP 32S RGE 43W

Other Services

				Elevation
Permanent Datum	GROUND LEVEL	Elevation	3842	K.B. 3853
Log Measured From	KELLY BUSHING 11' AGL			D.F.
Drilling Measured From	KELLY BUSHING			G.L. 3842

Date	4-16-08		
Run Number	ONE		
Depth Driller	3420 PB 3358		
Depth Logger	3346		
Bottom Logged Interval	3345		
Top Log Interval	2350		
Casing Size	4 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top	2520		
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-4		
Location	CHEYENNE WELLS, CO.		
Recorded By	HENDERSON		
Witnessed By	BRENT UMBERHAM	DON BUSBY	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17 1/2"	0	839				
TWO	7 7/8"	839	3420				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	36#	0	839
Prot. String				
Production String	4 1/2"	10.5#	0	3358
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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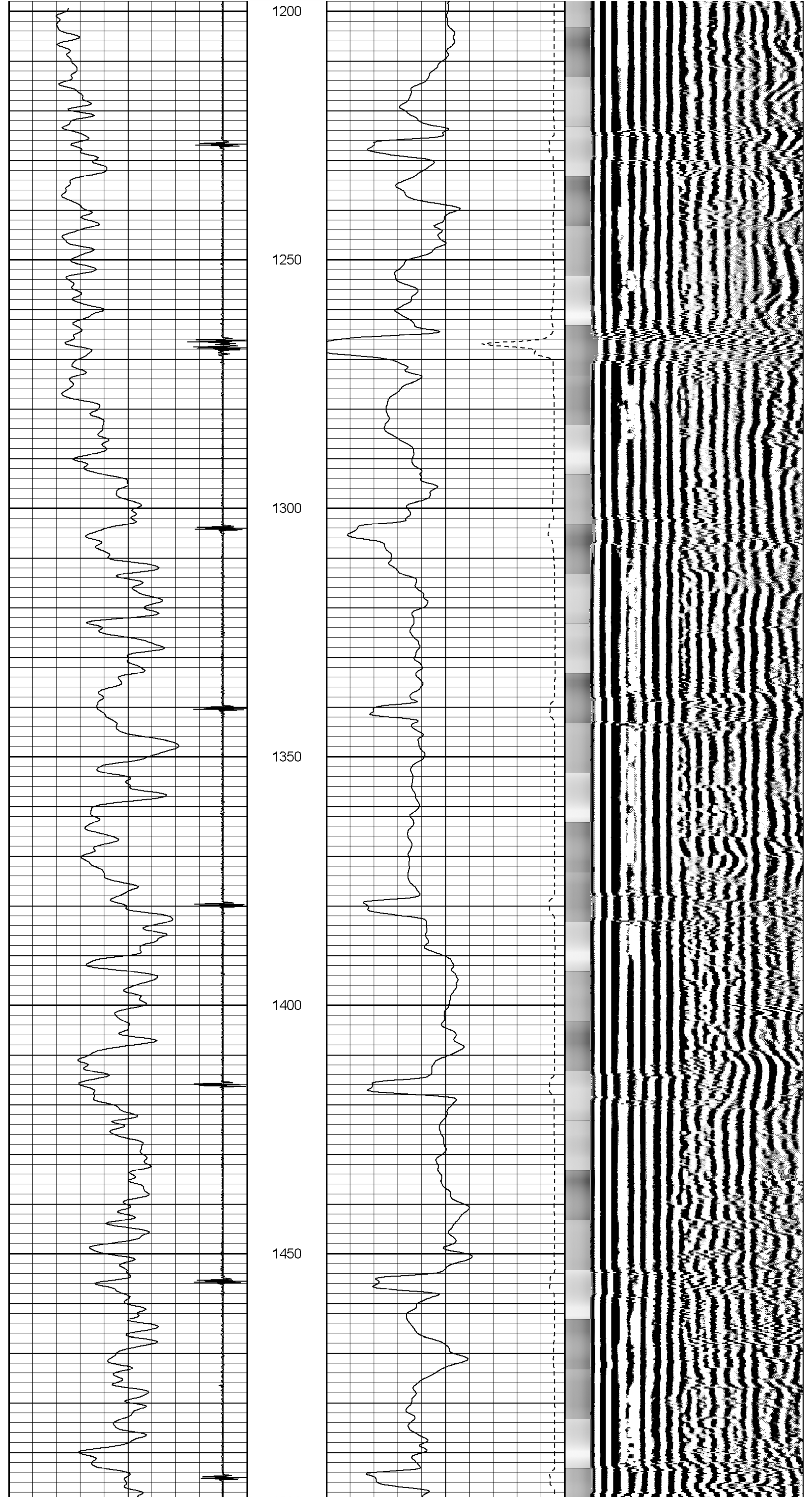
PORT COLLAR

Database File: crusader.db
Dataset Pathname: pass4
Presentation Format: cbl_dr
Dataset Creation: Wed Apr 16 08:33:14 2008 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240



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MAIN PASS

Database File: crusader.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Wed Apr 16 08:00:29 2008 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240

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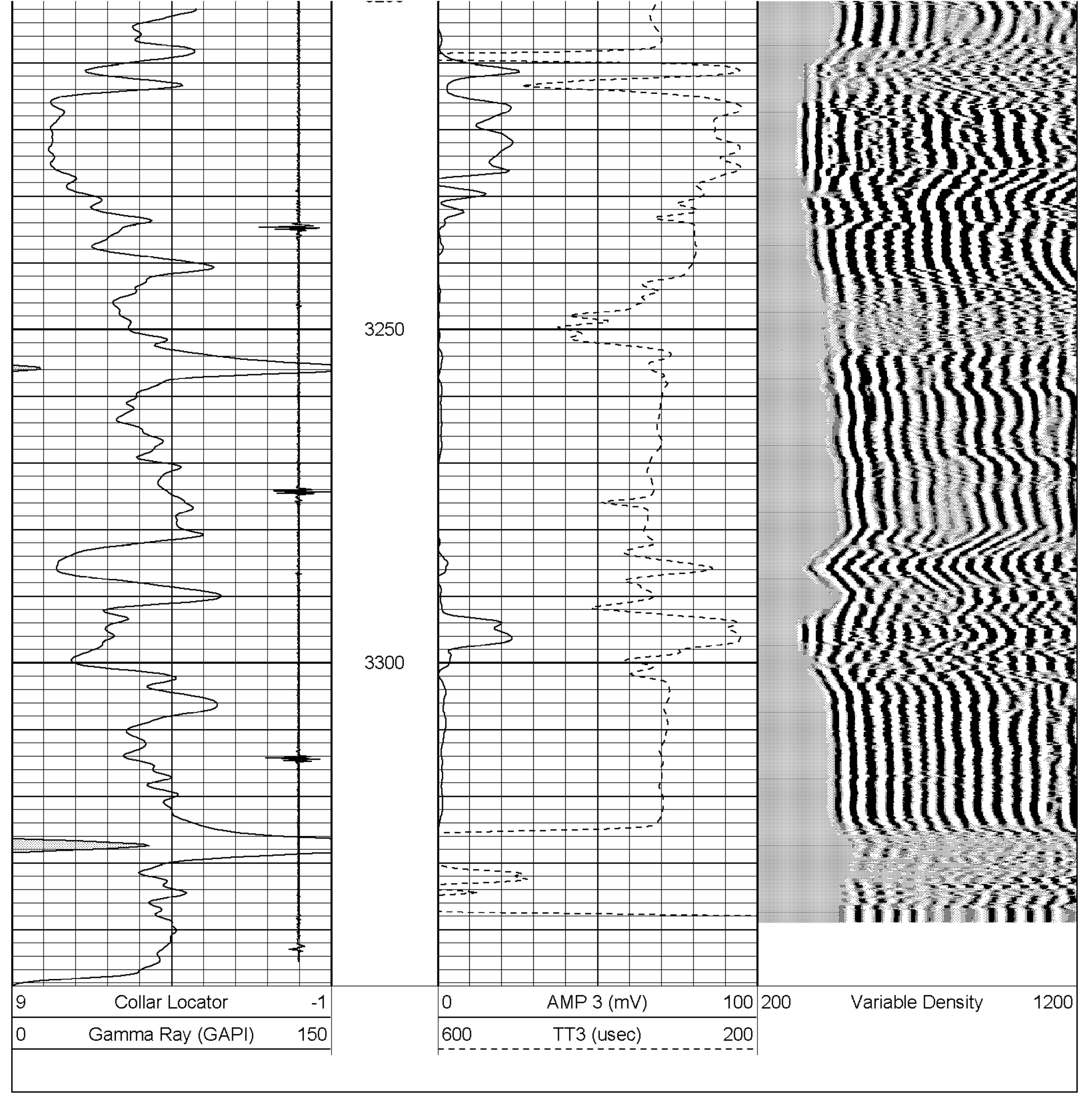
REPEAT SECTION

Database File: crusader.db
Dataset Pathname: pass1
Presentation Format: cbl_dr
Dataset Creation: Wed Apr 16 07:54:49 2008 by Log Std Casedhole 07081
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: crusader.db
Dataset Pathname: pass1
Dataset Creation: Wed Apr 16 07:54:49 2008 by Log Std Casedhole 07081

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Tue Mar 25 10:18:41 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:	SIE		
Tool Model:	Pengo		
Performed:	Wed Apr 16 07:52:26 2008		
Depth:	2543.54	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.010376	0.000854492	V
Reading in Free Pipe:	1.41585	1.47822	V
Gain:	57.0598	54.96	
Offset:	0.407947	-0.0469629	