PEAK WIRELINE SERVICES, INC.

DUAL SPACED CEMENT BOND LOG

Company PRONGHORN OPERATING, LLC.
Well STATE OF COLORADO #2
Field
County CHEYENNE
State COLORADO

Company PRONGHORN OPERATING, LLC.
Well STATE OF COLORADO #2
Field
County CHEYENNE State COLORADO
Location
SW SW
SEC 16 TWP 13S RGE 44W
Other Services

Permanent Datum GROUND LEVEL Elevation
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Elevation
K.B.
D.F.
G.L.

Date	11-07-2013		
Run Number	ONE		
Depth Driller	5518		
Depth Logger	5506		
Bottom Logged Interval	5502	4350	2700
Top Log Interval	4800	3390	1200
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	JOSH KLIESEN		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	284				
TWO	7 7/8"	284	5518				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	0	284
Prot. String				
Production String	5 1/2"	15.5#	0	5516
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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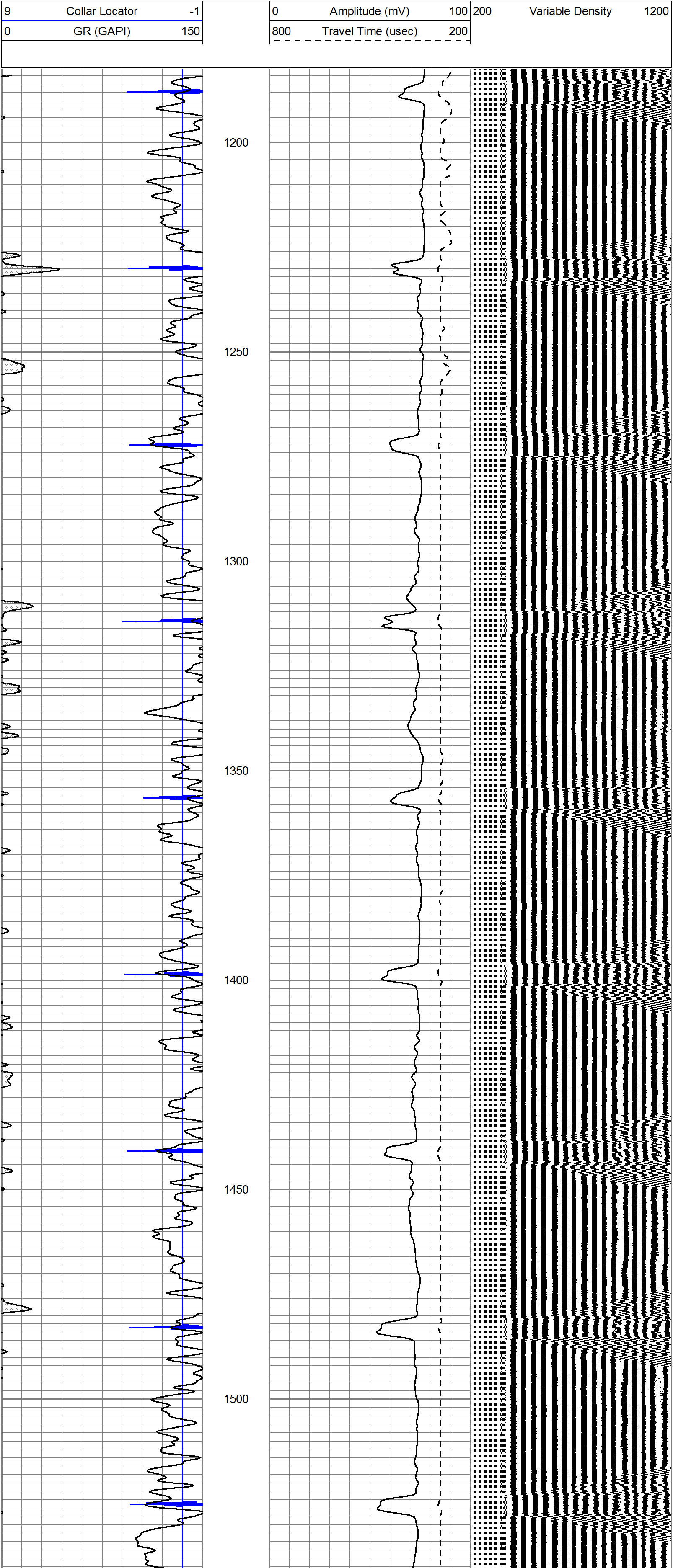
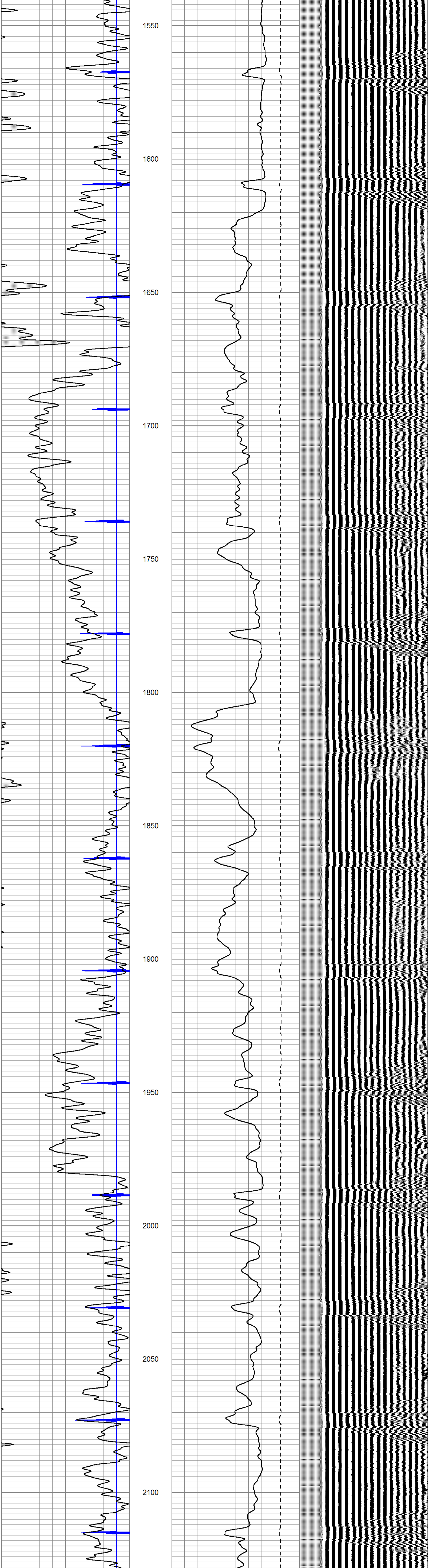
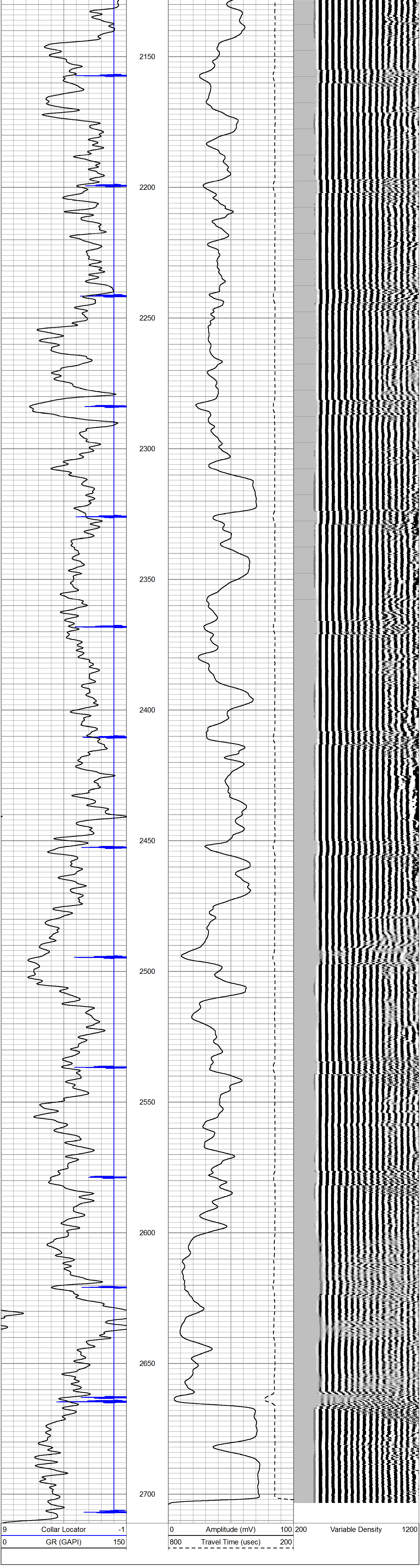
PORT COLLAR

Database File: stateco.db
Dataset Pathname: 2/run1/pass4
Presentation Format: cbldig
Dataset Creation: Thu Nov 07 07:43:22 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240







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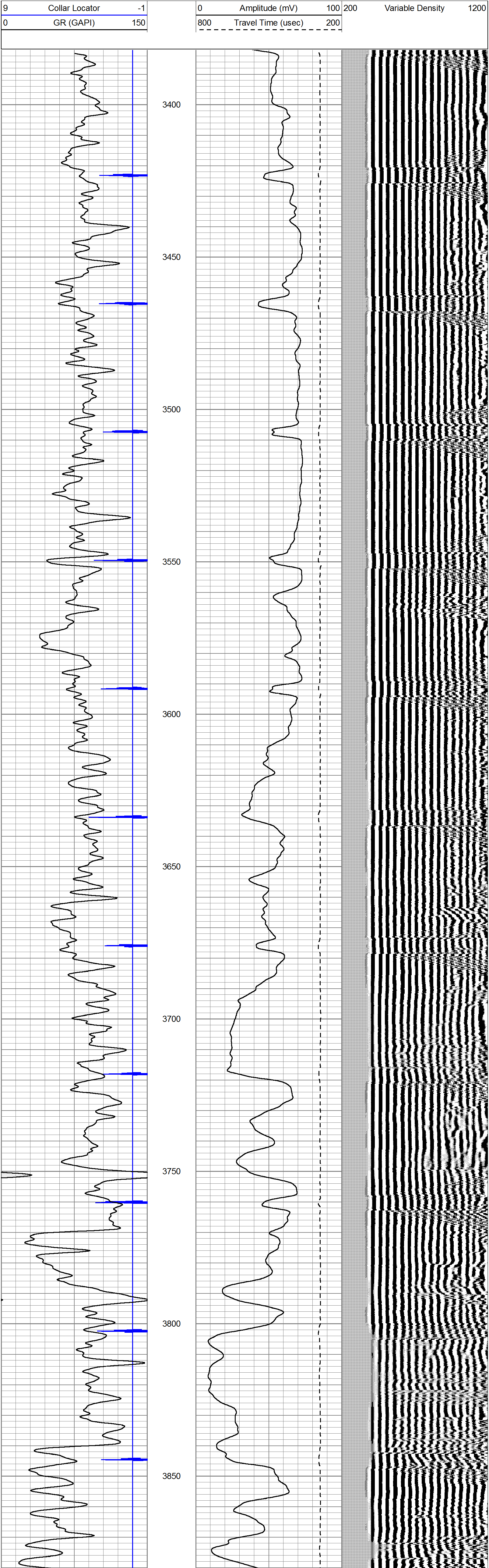
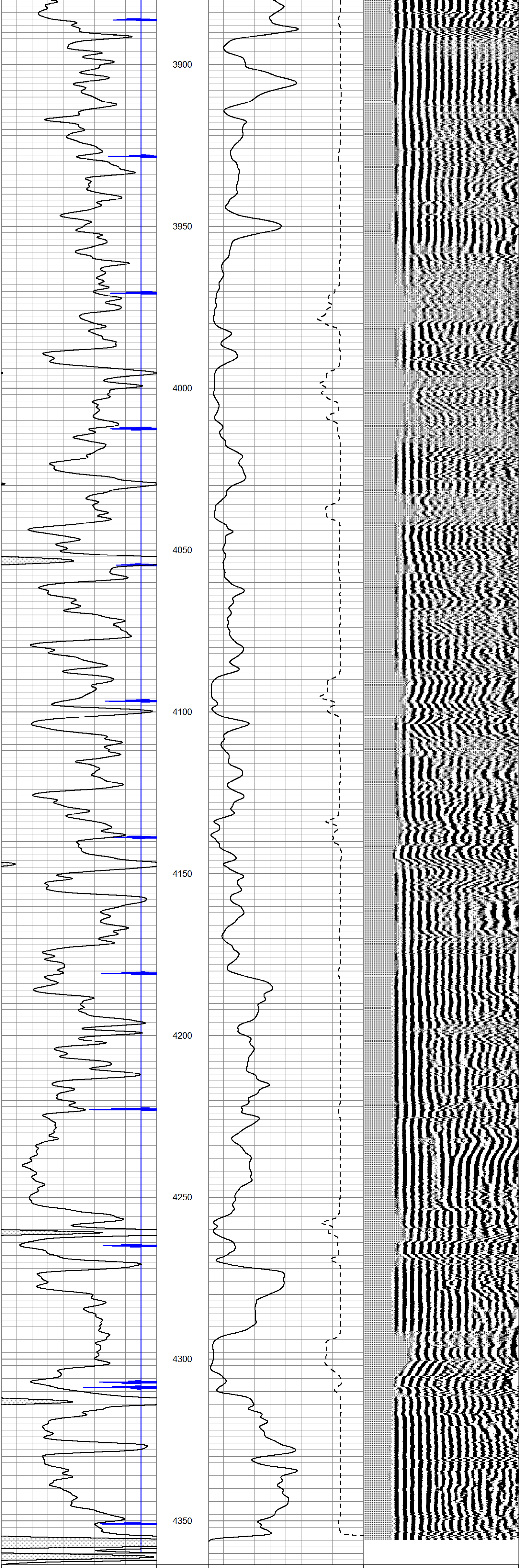
PORT COLLAR

Database File:	stateco.db
Dataset Pathname:	2/run1/pass3
Presentation Format:	cbldig
Dataset Creation:	Thu Nov 07 07:22:21 2013 by Log Std Casedhole 10071
Charted by:	Depth in Feet scaled 1:240

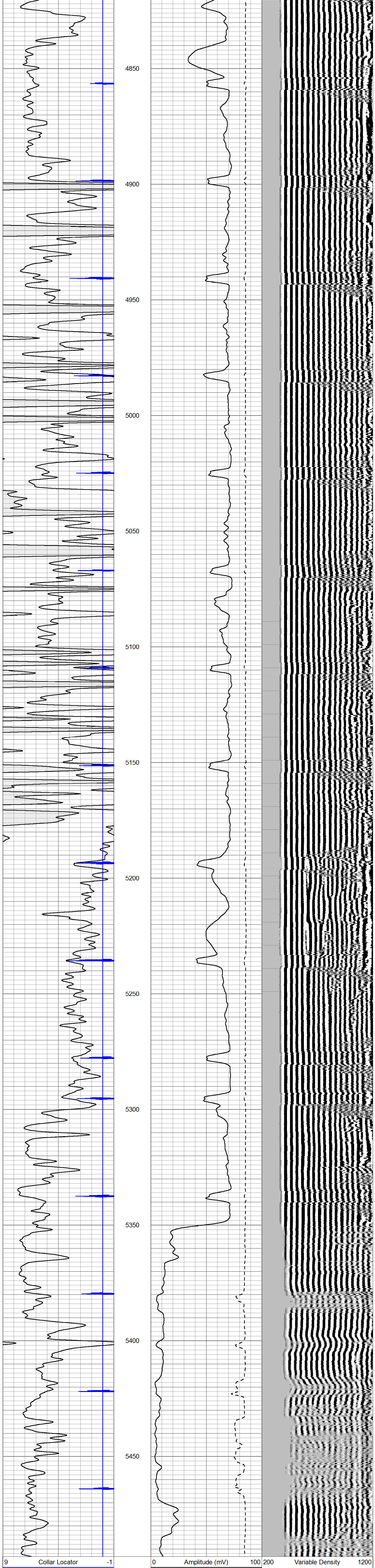




9	Collar Locator	-1	0	Amplitude (mV)	100	200	Variable Density	1200
0	GR (GAPI)	150	800	Travel Time (usec)	200			

Database File: stateco.db
Dataset Pathname: 2/run1/pass2
Presentation Format: cbldig
Dataset Creation: Thu Nov 07 07:06:09 2013 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			



0 GR (GAPI) 150 | 800 Travel Time (usec) 200

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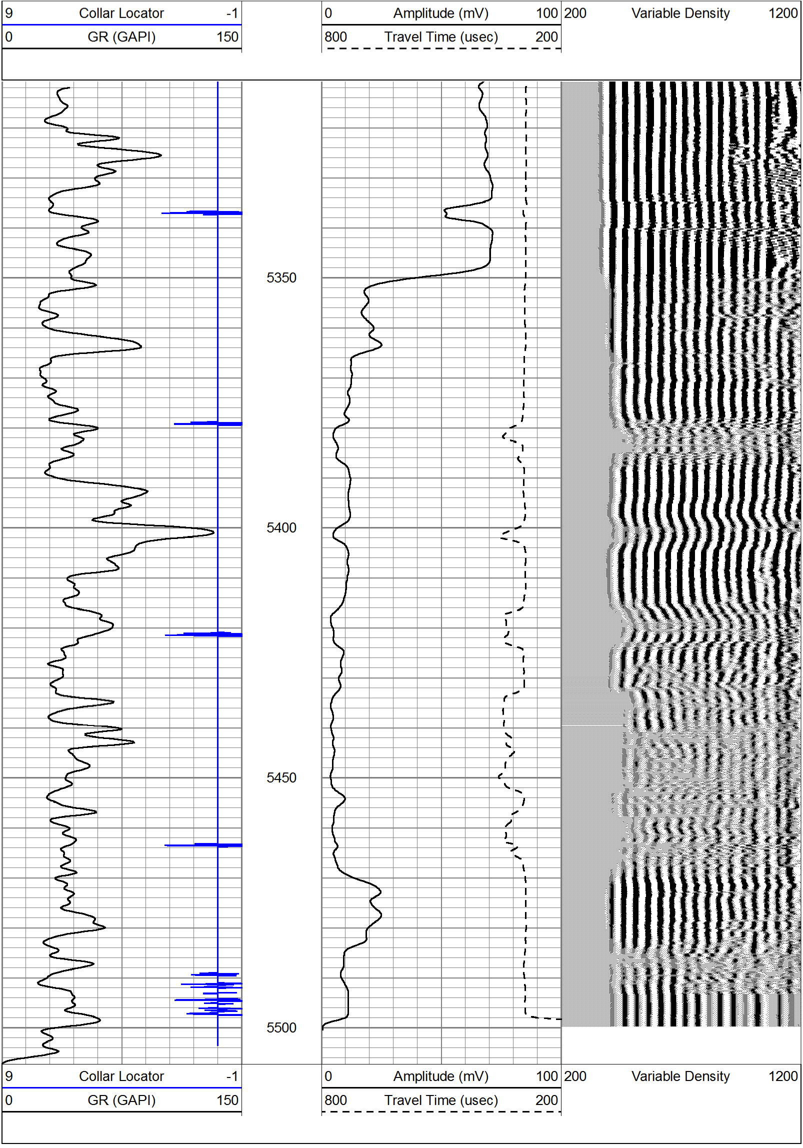
REPEAT SECTION

Database File:	stateco.db
Dataset Pathname:	2/run1/pass1
Presentation Format:	cbldig
Dataset Creation:	Thu Nov 07 07:00:54 2013 by Log Std Casedhole 10071
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	stateco.db
Dataset Pathname:	2/run1/pass4
Dataset Creation:	Thu Nov 07 07:43:22 2013 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Fri Nov 01 07:29:12 2013	
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:	Thu Nov 07 06:56:33 2013	
Depth:	0	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:	-0.00761719	0.013623	V
Reading in Free Pipe:	2.305	2.27773	V

Gain:
Offset:

30.991
0.4860

3
67

31.7657
-0.43274
