



**SUPERIOR**  
Black Lick, Pa.  
Mercer, Pa.  
Wooster, Oh.  
Cleveland, Ok.  
Trinidad, Co.

## CEMENT BOND GAMMA RAY

Company XTO Energy Inc.  
Well Apache Canyon 19-14  
Field Purgatorie River  
County Las Animas  
State CO

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Well Apache Canyon 19-14  
Field Purgatorie River  
County Las Animas State CO

Location: API #: 05 071 08927 00

598' FSL & 2236' FWL

SEC 19 TWP 34S RGE 67W

Permanent Datum Ground Level Elevation 7614'  
Log Measured From Ground Level  
Drilling Measured From Ground Level

Elevation  
K.B. -----  
D.F. -----  
G.L. 7614'

Date 3/5/07

Run Number two

Depth Driller 2100'

Depth Logger 1676'

Bottom Logged Interval 1672'

Top Log Interval 1200'

Open Hole Size 7 7/8"

Type Fluid water

Density / Viscosity III

Max. Recorded Temp. III

Estimated Cement Top Surf.

Time Well Ready 8:50

Time Logger on Bottom 9:00

Equipment Number 0703

Location Trinidad

Recorded By Worley

Witnessed By Mr. Maxwell

Run Number

Bit From To

Size

Weight

From To

Size

Wgt/Ft

Top Bottom

Size

Weight

From To

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Wgt/Ft

Top Bottom

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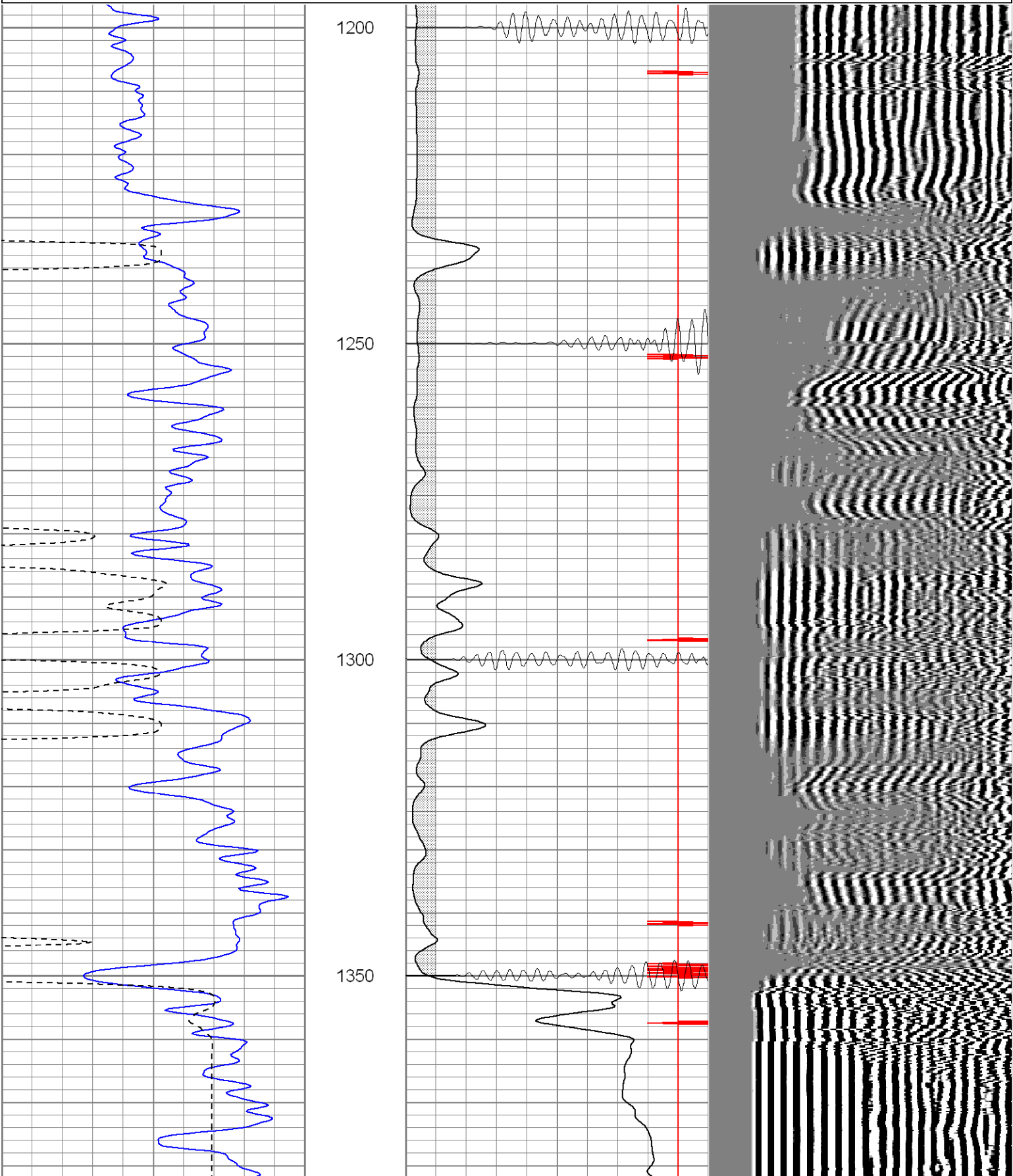
Top Bottom

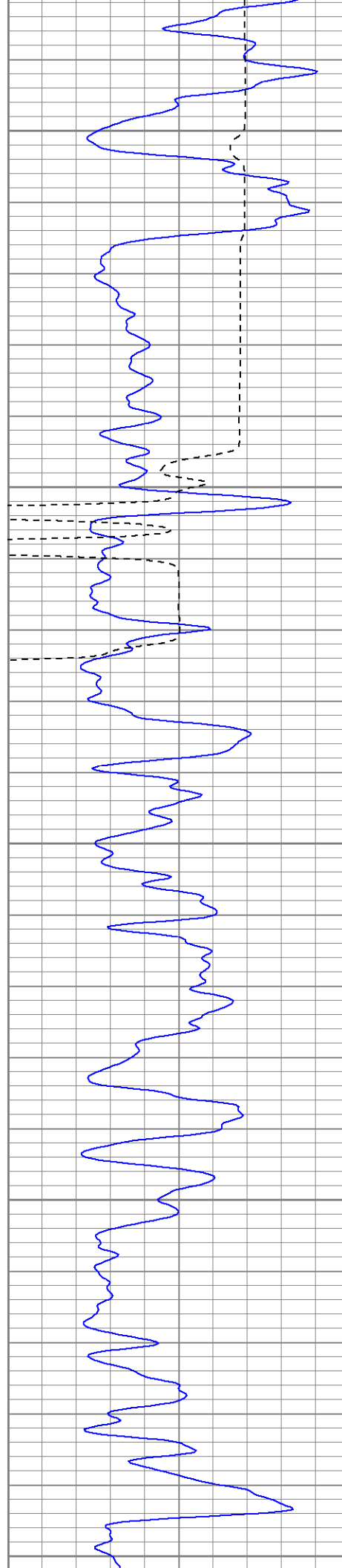
Size

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Database File: ac19-14b3507.db  
Dataset Pathname: pass1  
Presentation Format: cblrt  
Dataset Creation: Mon Mar 05 08:56:13 2007 by Log Warrior 7.0 STD Cas  
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	0	AMP3 (mV)	100	200	Variable Density	1200
400	TT3 (usec)	200	18	CCL	-2			
			200	CBL5	1200			





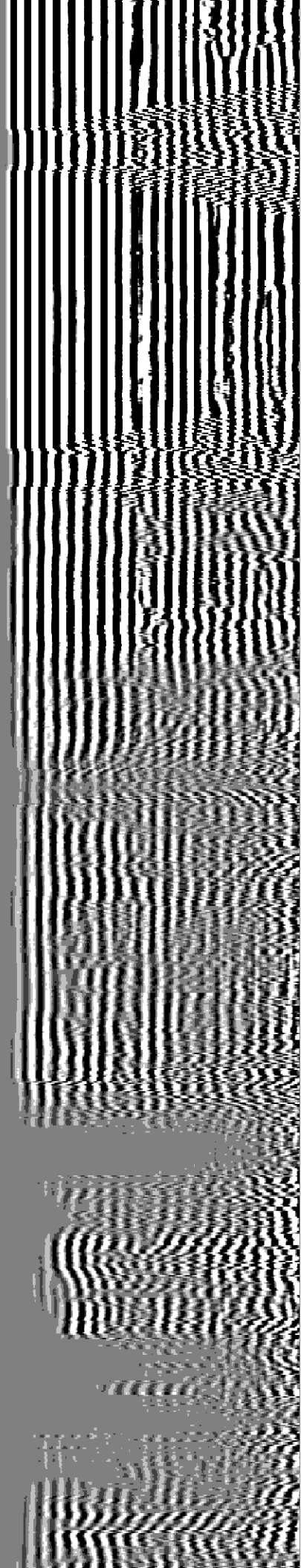
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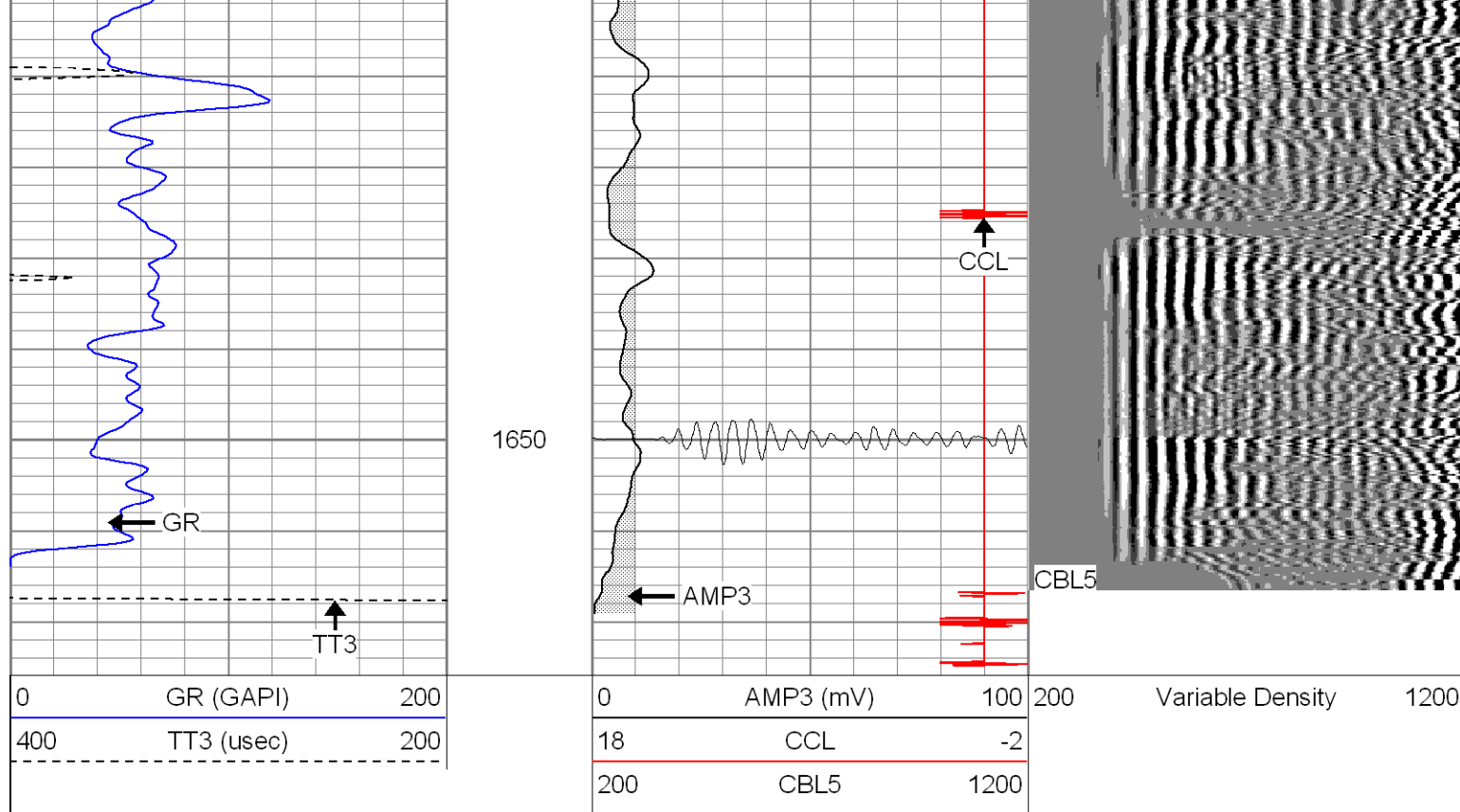
1450

1500

1550

1600



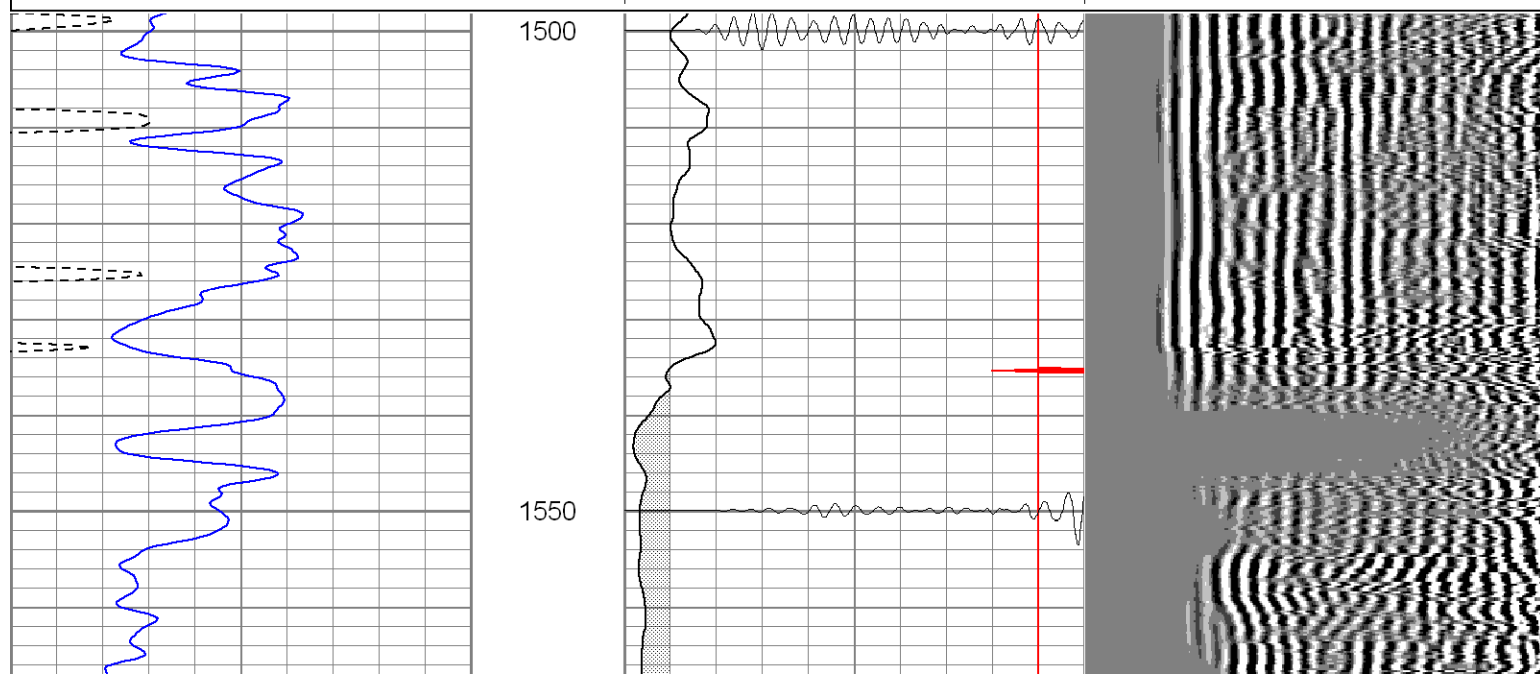
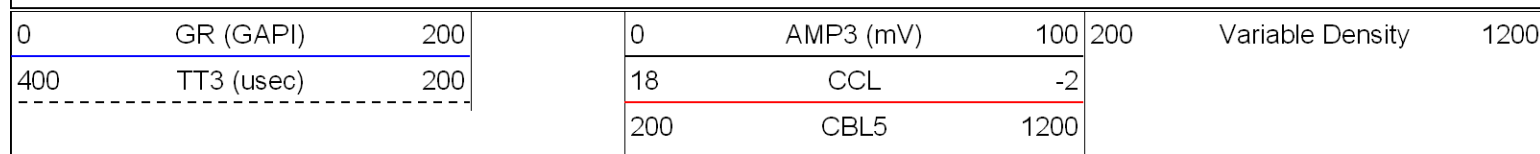


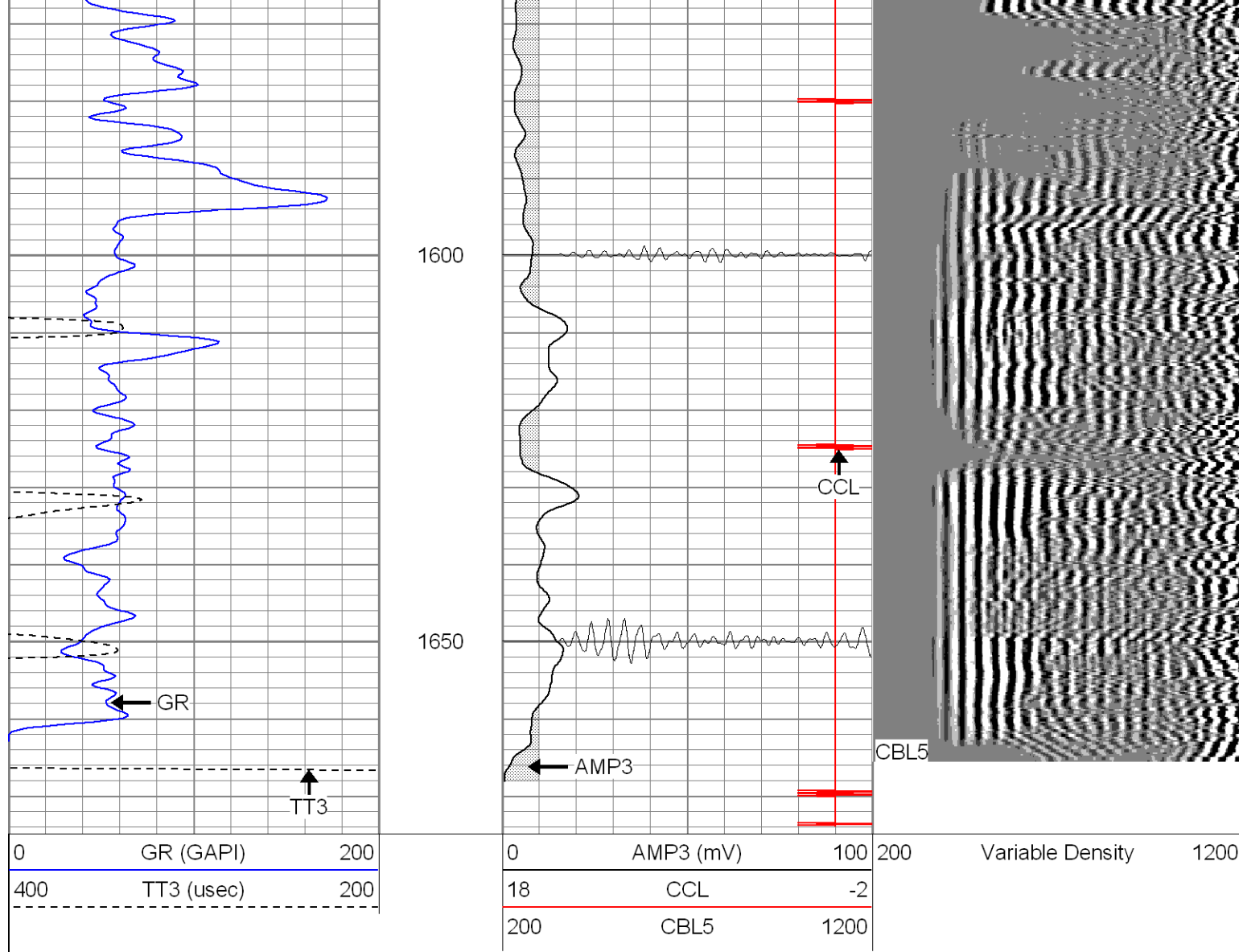
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# Repeat Section

Database File: ac19-14b3507.db  
Dataset Pathname: pass2  
Presentation Format: cblrt  
Dataset Creation: Mon Mar 05 09:12:00 2007 by Log Warrior 7.0 STD Cas  
Charted by: Depth in Feet scaled 1:240





### Cement Bond Log Calibration Report

Serial Number:	Titan5		
Tool Model:	2		
Performed:	Wed Feb 28 12:11:53 2007		
Depth:	210.983	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	85	85	mV
Reading at Signal Zero:	-0.01	0.00866699	V
Reading in Free Pipe:	1.2	1.2	V
Gain:	70.2479	71.3486	
Offset:	0.702479	-0.618378	

### Gamma Ray Calibration Report

Serial Number:	Titan5	
Tool Model:	T2	
Performed:	Sat Feb 10 07:59:59 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.2000	GAPI/cps