



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

CEMENT BOND GAMMA RAY LOG

Company XTO Energy, Inc.

Well Apache Canyon 13-12x

Field Purgatoire River

County Las Animas State CO

Location: API #: 05 071 08828 00

2264' FSL & 627' FWL

SEC 13 TWP 34S RGE 68W

Permanent Datum Ground Level Elevation 8394'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 8394'

Date

2-22-07

Run Number

Six

Depth Driller

2400'

Depth Logger

1074'

Bottom Logged Interval

1072'

Top Log Interval

Surface

Open Hole Size

7 7/8"

Type Fluid

Water

Density / Viscosity

///

Max. Recorded Temp.

///

Estimated Cement Top

Surface

Time Well Ready

ROA

Time Logger on Bottom

7:45AM

Equipment Number

T0698

Location

Trinidad

Recorded By

J Sisneros

Witnessed By

Mr Mike Polley

Borehole Record

Run Number Bit From To

Size

Weight

From

To

Tubing Record

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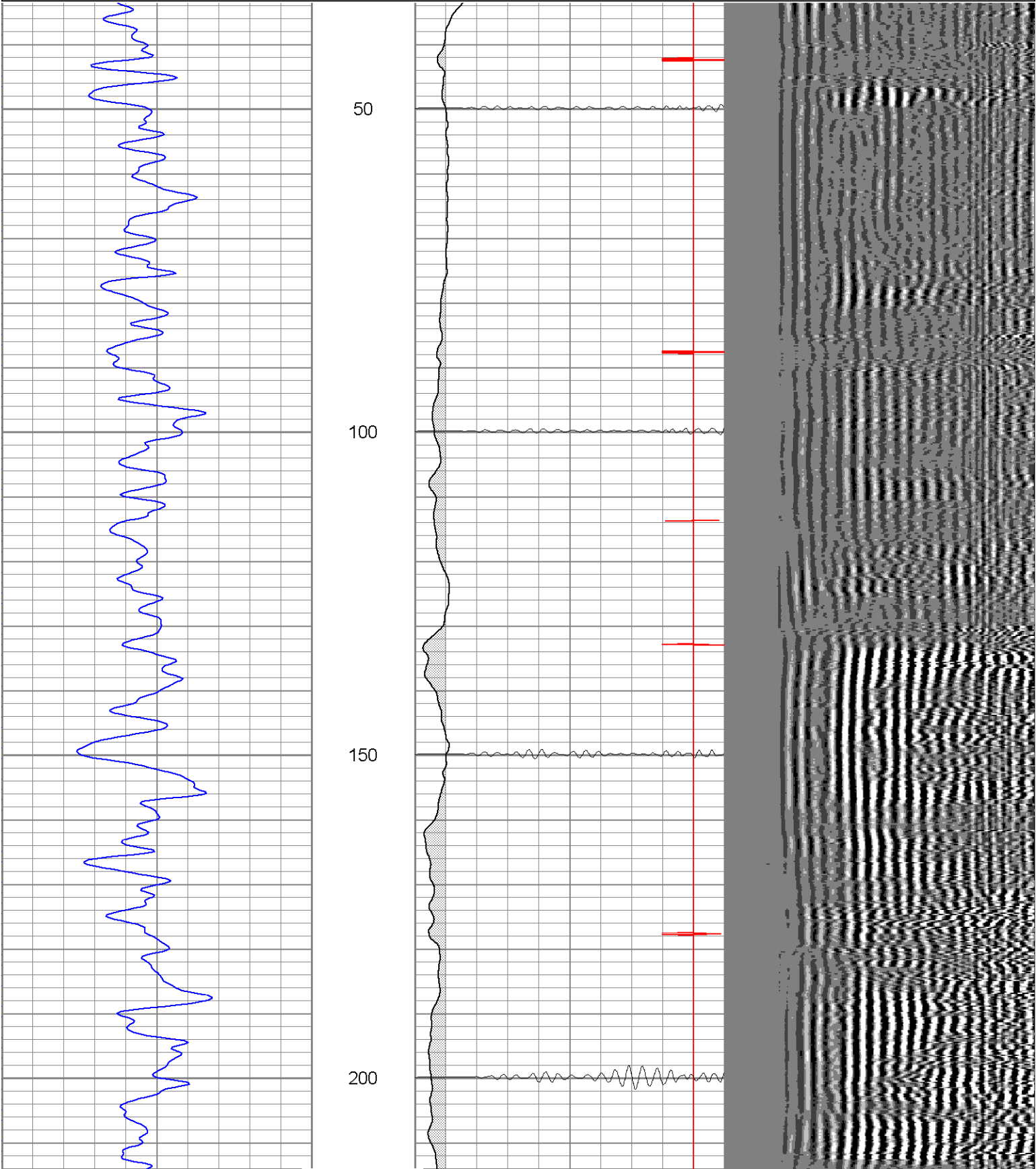
From

To

Size

Database File: ac1312x22207b.db
Dataset Pathname: pass2
Presentation Format: cblrt
Dataset Creation: Thu Feb 22 08:16:14 2007 by Log Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

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



Surface Casing

250

300

350

400

1

2

3

4

5

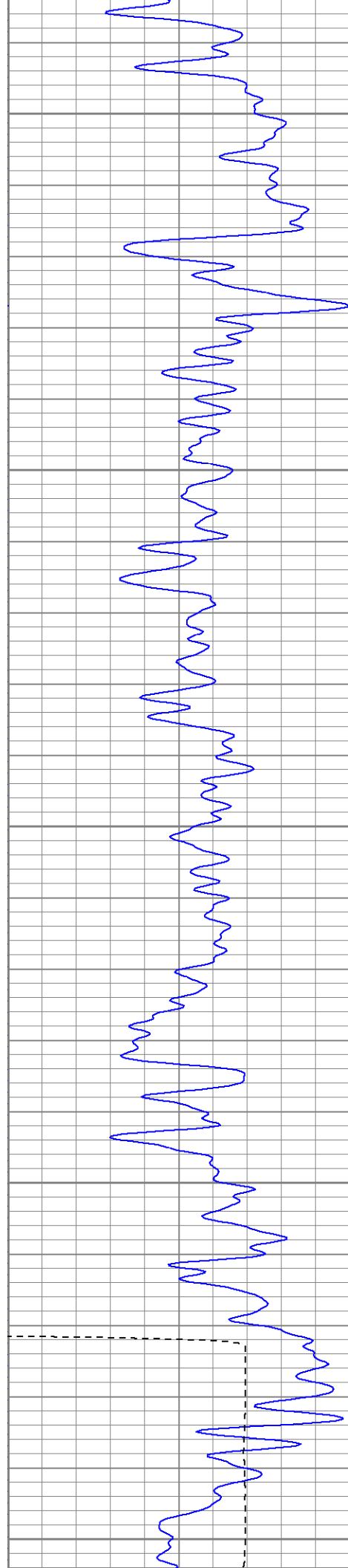
6

7

8

9

10



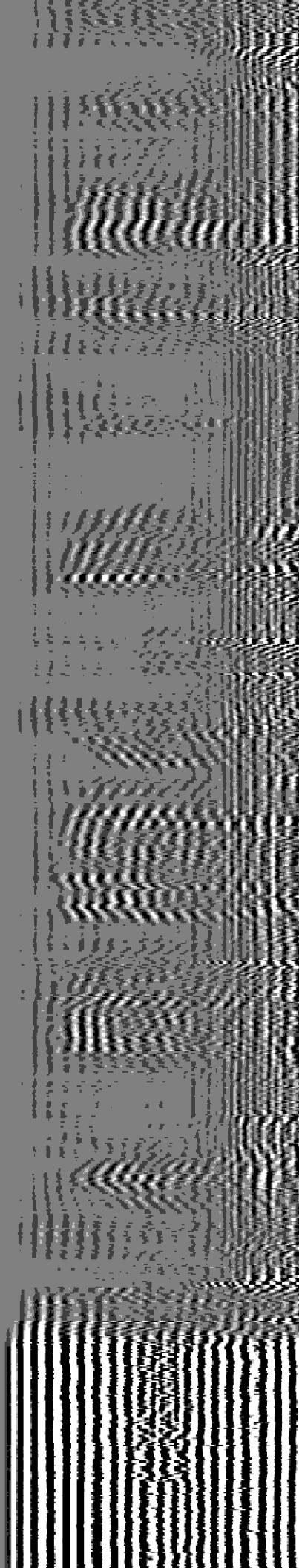
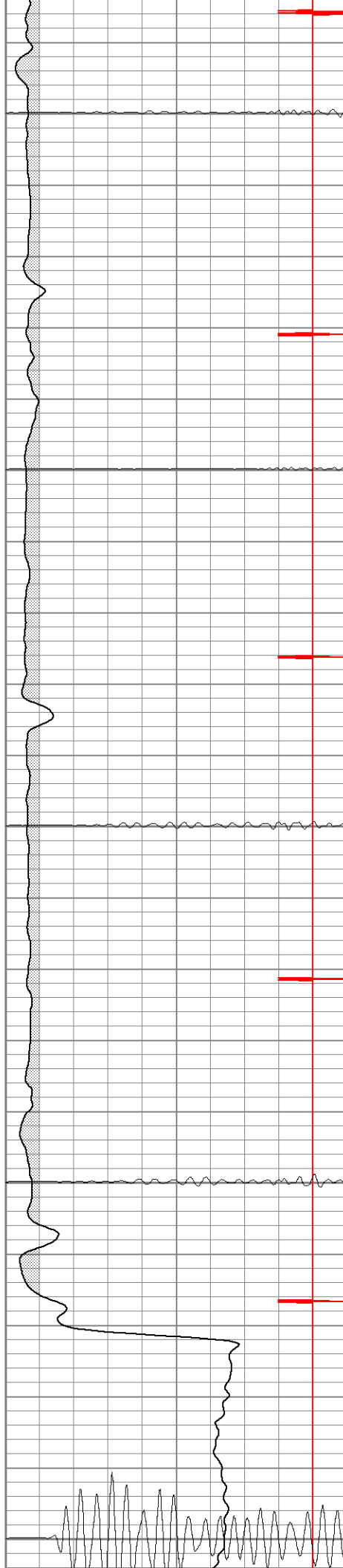
450

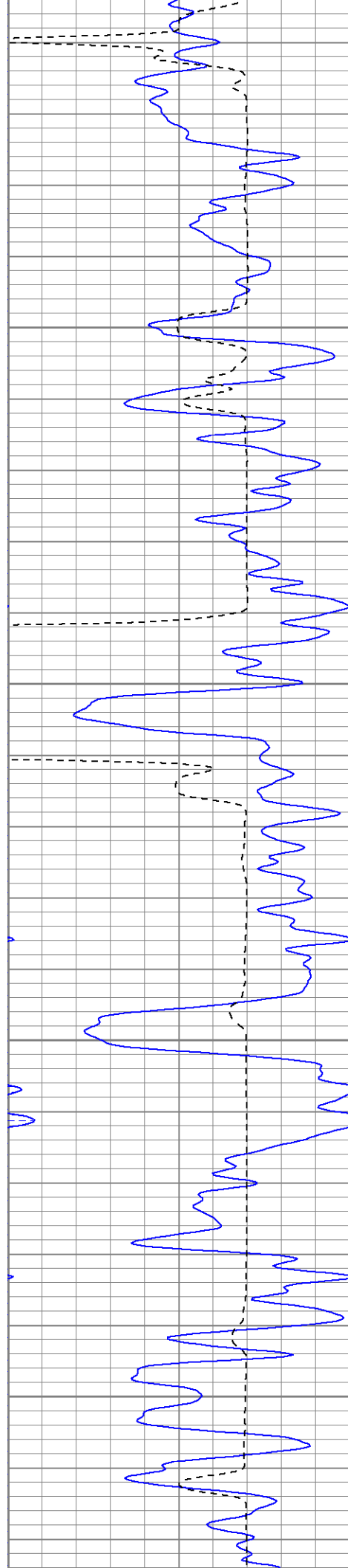
500

550

600

650



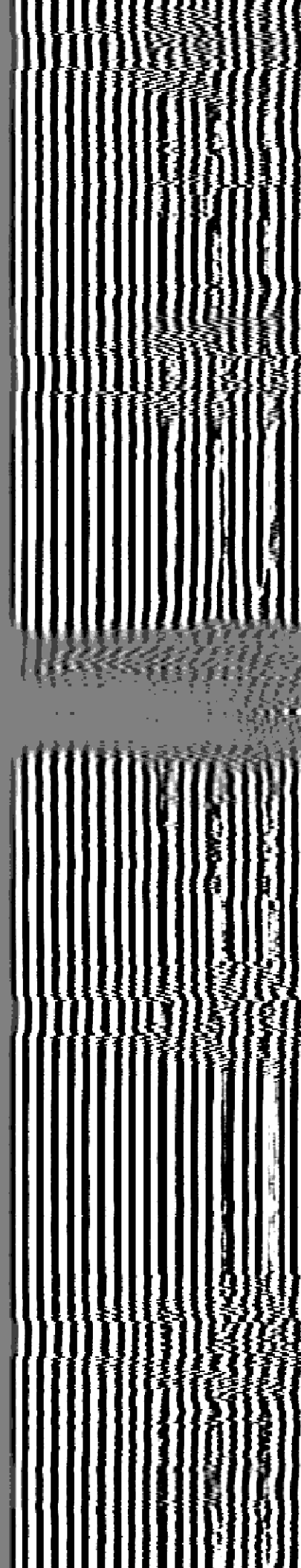
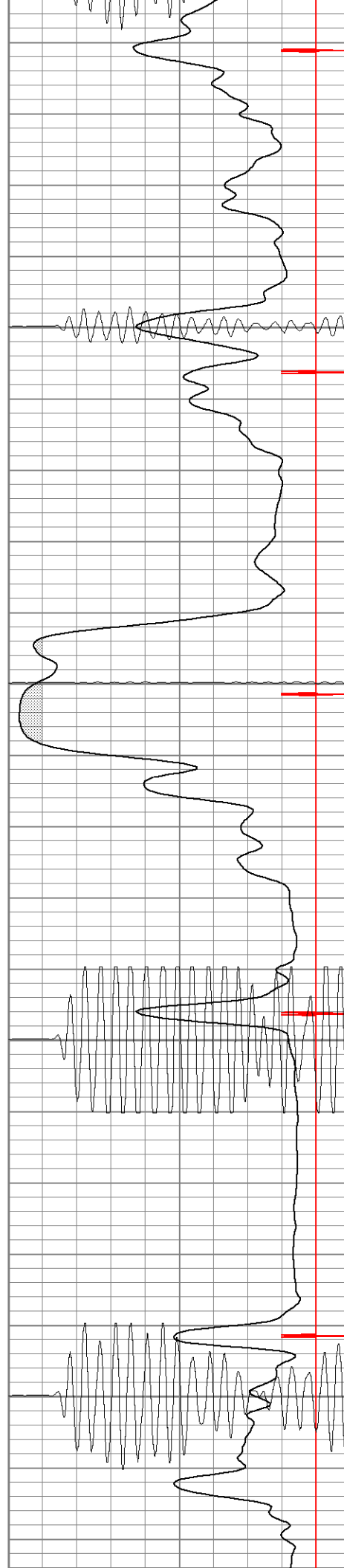


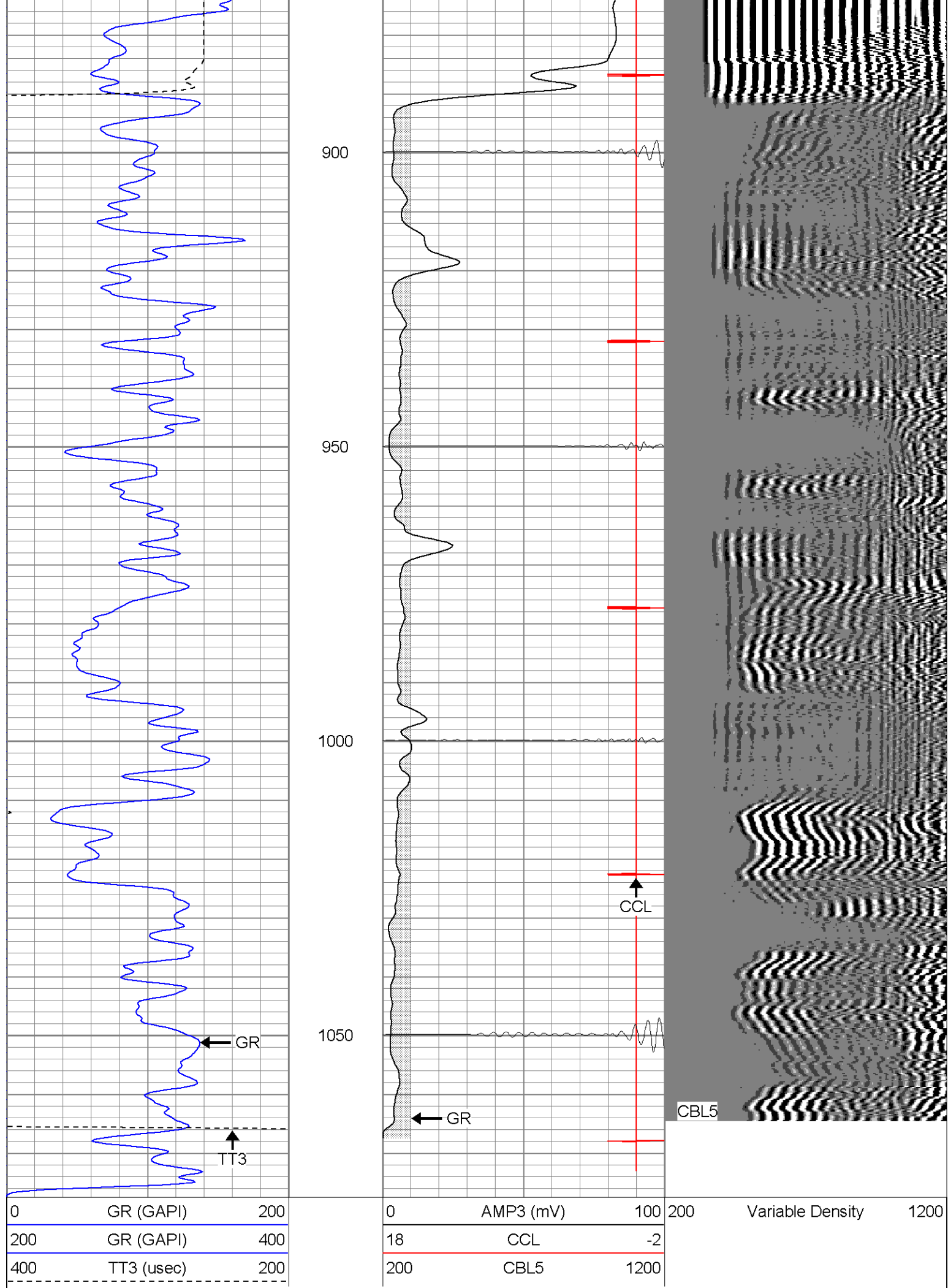
700

750

800

850







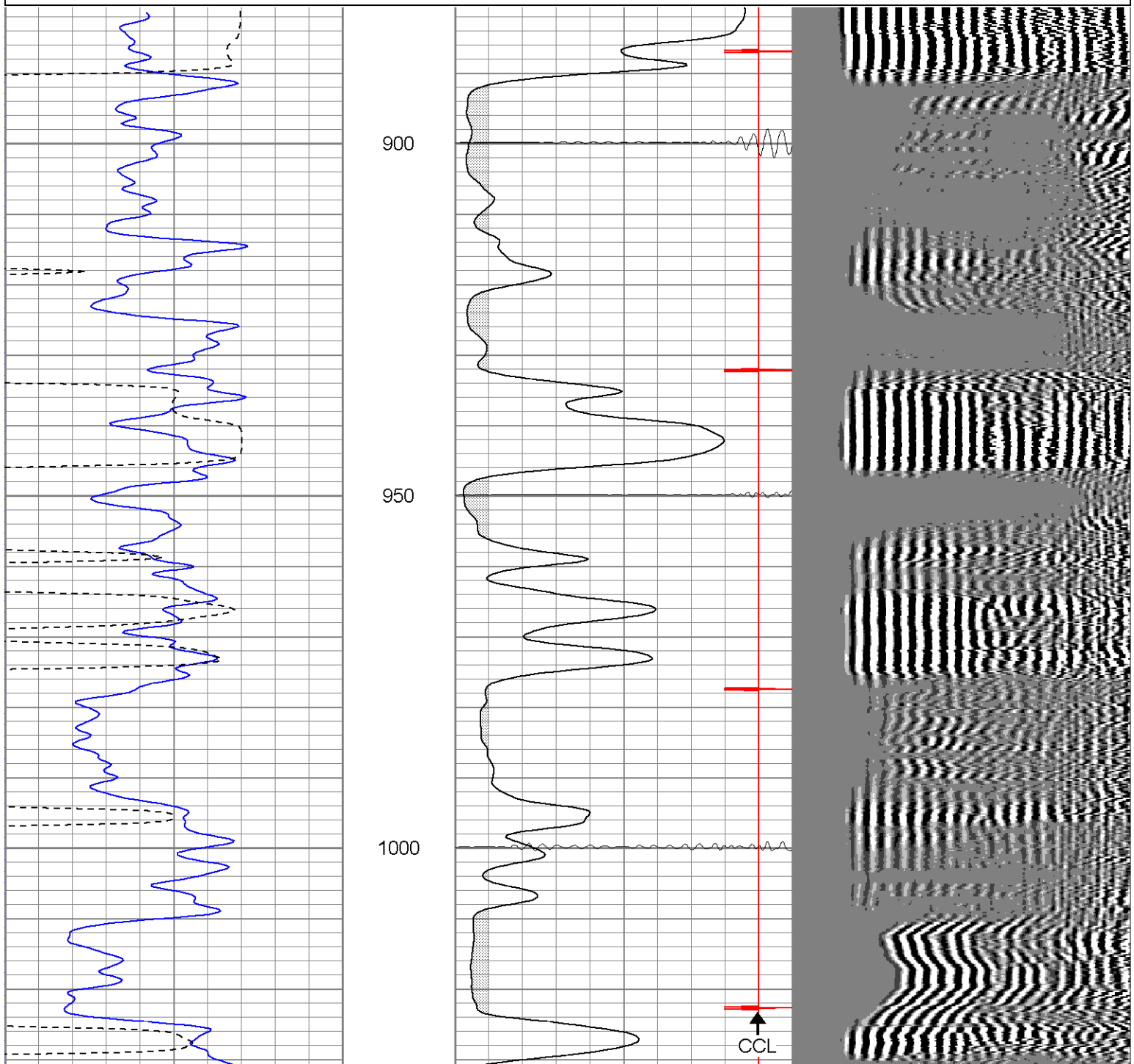
SUPERIOR

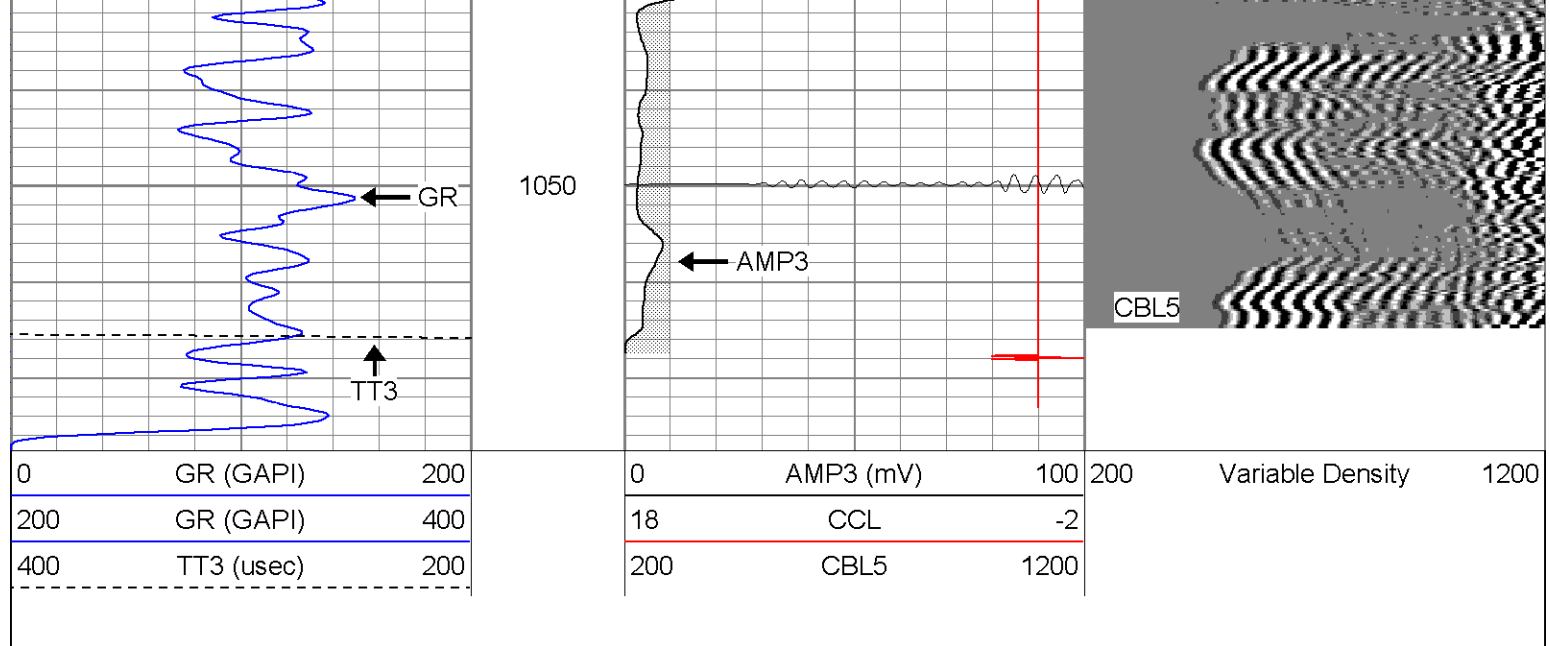
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Repeat Section (0PSI)

Database File: ac1312x22207b.db
Dataset Pathname: pass1
Presentation Format: cblrt
Dataset Creation: Thu Feb 22 08:01:01 2007 by Log Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

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





Calibration Report

Database File: ac1312x22207b.db
 Dataset Pathname: pass1
 Dataset Creation: Thu Feb 22 08:01:01 2007 by Log Open-Cased 060407

Gamma Ray Calibration Report

Serial Number: Titan2.75
 Tool Model: 2.75
 Performed: Fri Jan 26 10:30:12 2007

Calibrator Value: 200.0 GAPI

Background Reading: 40.0 cps
 Calibrator Reading: 240.0 cps

Sensitivity: 1.1000 GAPI/cps

Cement Bond Log Calibration Report

Serial Number: Titan4
 Tool Model: 4
 Performed: Fri Jan 26 11:14:49 2007

Depth: 1054.62 ft
 Casing Diameter: 5.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0	1	mV
Calibrated Amplitude:	85	85	mV
Reading at Signal Zero:	0.00161133	0.0143555	V
Reading in Free Pipe:	1.27	1.65081	V
Gain:	67.0142	51.3306	
Offset:	0.25	0.263125	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	20.38		CHD-None (0)	0.75	1.50	5.00
CENT	19.63		CENT-X (2)	3.00	1.69	25.00

WVF5	12.82		CBL-4 (Titan4)	8.15	2.25	110.00
WVF3	11.82					
CENT	8.48		CENT-X (1)	3.00	1.69	25.00
CCL	4.27		CCL-2.75 (Titan2.75)	1.71	2.75	15.00
GR	1.42		GR-2.75 (Titan2.75) Two Point	3.77	2.75	25.00
		Dataset: ac1312x22207b.db: field/well/run1/pass1 Total Length: 20.38 ft Total Weight: 205.00 lb O.D. 2.75 in				