# CEMENT BOND LOG

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

CompanyXTO Energy Inc.
Well Apache Canyon 32-14
Field Purgatorie River
County Las Animas
State CO

**Company** XTO Energy Inc.
**Well** Apache Canyon 32-14
**Field** Purgatorie River
**County** Las Animas **State** CO
**Location:** API # : 05 071 09129 00
716' FSL & 2071' FWL
SEC 32 TWP 33S RGE 67W

Other Services
Pressure
control

Permanent Datum Ground Level Elevation 7983'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. ____
D.F. ____
G.L. 7983'

| | |
|---|---|
| Date | 6-22-07 |
| Run Number | One |
| Depth Driller | 2600' |
| Depth Logger | 2515' |
| Bottom Logged Interval | 2513' |
| Top Log Interval | Surface |
| Open Hole Size | 7 7/8 |
| Type Fluid | Water |
| Density / Viscosity | /// |
| Max. Recorded Temp. | 112F |
| Estimated Cement Top | 180' |
| Time Well Ready | ROA |
| Time Logger on Bottom | 8:45AM |
| Equipment Number | T0698 |
| Location | Trinidad |
| Recorded By | J. Sisneros |
| Witnessed By | Mr Travis Gourdin |

Borehole Record

| Run Number | Bit | From | To |
|---|---|---|---|
| | | | |

Tubing Record

| Size | Weight | From | To |
|---|---|---|---|
| | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | 8 5/8" | | | 495' |
| Prot. String | | | | |
| Production String | 5.5" | | | |
| Liner | | | | |

<<< Fold Here >>>

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

Lower Bosque Entrance, first right to Cherry Canyon, stay left at Y, stay on main road for 4.5 miles turn right , first location.

## Main Pass (1000PSI)

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Database File: ac321462207b.db
Dataset Pathname: pass2
Presentation Format: cblrt
Dataset Creation: Fri Jun 22 09:48:12 2007 by Log Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

## Repeat Section (0PSI)

SUPERIOR
Black Lick, Pa.
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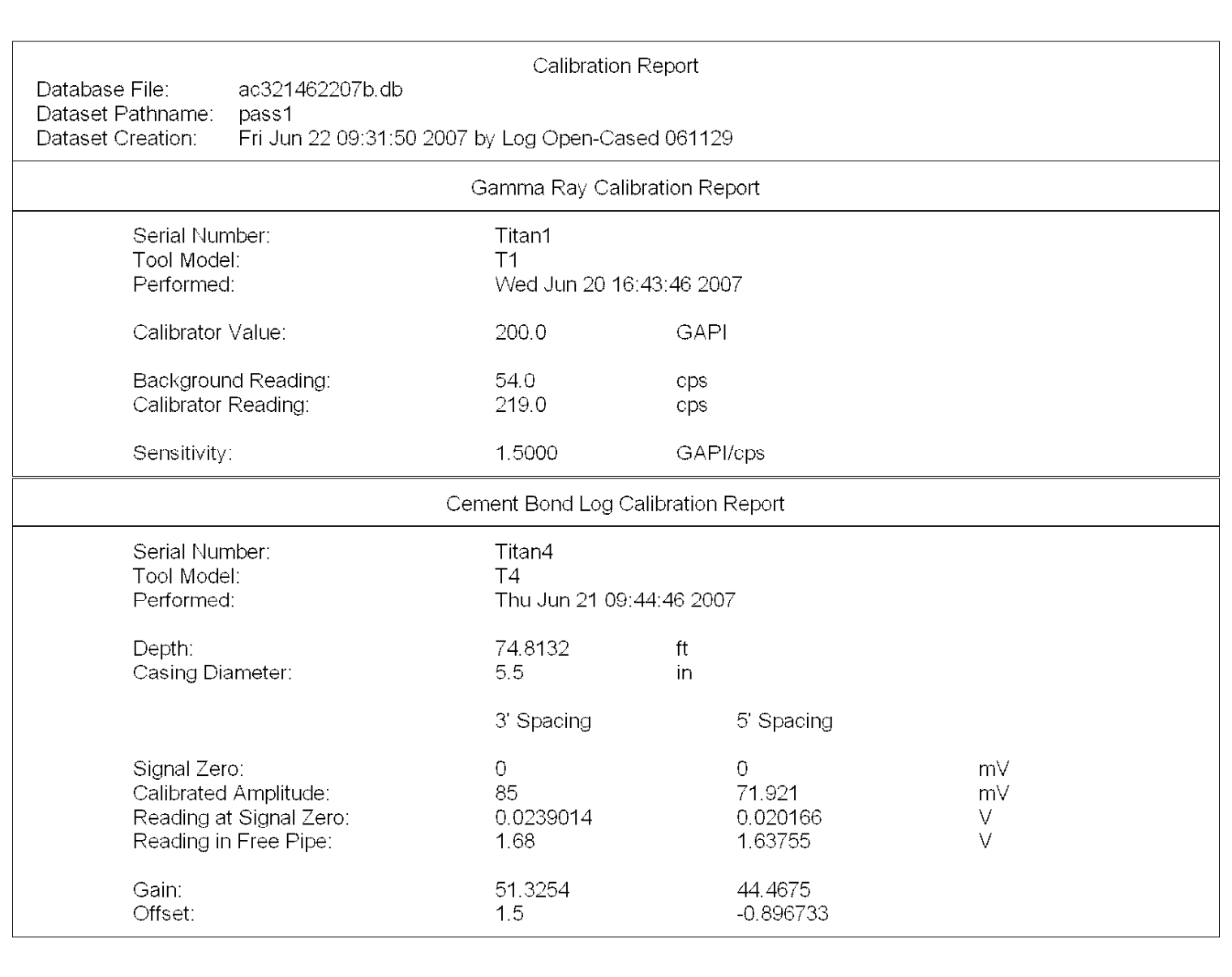
Database File: ac321462207b.db
Dataset Pathname: pass1
Presentation Format: cblrt
Dataset Creation: Fri Jun 22 09:31:50 2007 by Log Open-Cased 061129
Charted by: Depth in Feet scaled 1:240



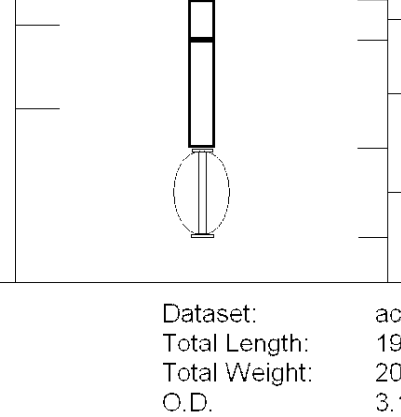
Calibration Report
Database File: ac321462207b.db
Dataset Pathname: pass1
Dataset Creation: Fri Jun 22 09:31:50 2007 by Log Open-Cased 061129

Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | Titan1 | |
| Tool Model: | T1 | |
| Performed: | Wed Jun 20 16:43:46 2007 | |
| Calibrator Value: | 200.0 | GAPI |
| Background Reading: | 54.0 | cps |
| Calibrator Reading: | 219.0 | cps |
| Sensitivity: | 1.5000 | GAPI/cps |

Cement Bond Log Calibration Report

| | | | |
|---|---|---|---|
| Serial Number: | Titan4 | | |
| Tool Model: | T4 | | |
| Performed: | Thu Jun 21 09:44:46 2007 | | |
| Depth: | 74.8132 | ft | |
| Casing Diameter: | 5.5 | in | |
| | 3' Spacing | 5' Spacing | |
| Signal Zero: | 0 | 0 | mV |
| Calibrated Amplitude: | 85 | 71.921 | mV |
| Reading at Signal Zero: | 0.0239014 | 0.020166 | V |
| Reading in Free Pipe: | 1.68 | 1.63755 | V |
| Gain: | 51.3254 | 44.4675 | |
| Offset: | 1.5 | -0.896733 | |

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| | |  | CHD-None (0) | 0.75 | 1.50 | 5.00 |
| | | | CENT-X (2) | 3.00 | 1.69 | 25.00 |
| WVF5<br>WVF3 | 12.30<br>11.30 | | CBL-T4 (Titan4) | 8.15 | 2.25 | 110.00 |
| CCL | 7.10 | | CCL-T1 (Titan1) | 1.33 | 3.13 | 15.00 |
| GR | 4.30 | | GR-T1 (Titan1) | 3.63 | 3.13 | 25.00 |
| | | | CENT-X (1) | 3.00 | 1.69 | 25.00 |

Dataset: ac321462207b.db: field/well/run1/pass1
Total Length: 19.86 ft
Total Weight: 205.00 lb
O.D. 3.13 in