| | |
|---|---|
| Date | 2010-08-08 |
| Time | 2010-08-08 |
| Depth | 0 - 1000 |
| Scale | 1:1000 |
| Speed | 1 |
| Gain | 1 |
| Filter | 1 |
| Tool | 1 |
| Channel | 1 |

**Schlumberger**

**Schlumberger Technology Corporation**
**Wireline & Testing**
**Sugar Land, Texas 77478**

**Field Print**

**Calibration Report**

**Gamma Ray**

**Schlumberger**

**Schlumberger Technology Corporation**
**Wireline & Testing**
**Sugar Land, Texas 77478**

**Field Print**

**Calibration Report**

**Gamma Ray**

THIS WELL WAS RUN IN TUBING.

THANK YOU FOR CHOOSING SCHLUMBERGER WIRELINE SERVICES.

| Depth Control | Log Measured From | Drilling Measured From |
|---|---|---|
| | KB 0.00 m Above Perm. Datum | KB 0.00 m Above Perm. Datum |

| Operator | Schlumberger |
|---|---|
| Logging Date | 2010-08-08 |
| Run Number | 1 |
| Depth Driller | 0.00 m |
| Depth Logger | 1000.00 m |
| Bottom Logged Interval | 1000.00 m |
| Top Logged Interval | 0.00 m |
| Casing Driller | 0.00 m @ 0.00 m |
| Casing Logger | 0.00 m |
| Bit Size | 0.00 mm |
| Type Fluid in Hole | Unknown |
| Density | 0.00 kg/m³ |
| Viscosity | 0.00 mPa.s |
| Fluid Level | 0.00 m |
| Max Temp. Recorded | 0.00 °C |
| Estimated Cement Top | 0.00 m |
| Time Since Circulation | 0.00 hr |
| Time Since Cement | 0.00 hr |

| Equipment | Location | Serial No. | Model | Calibration Date |
|---|---|---|---|---|
| Gamma Ray Tool | Sugar Land, Texas | 0 | | 2010-08-08 |

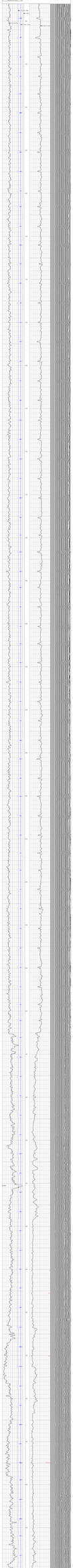
| Recorded By | Witnessed By |
|---|---|
| | |

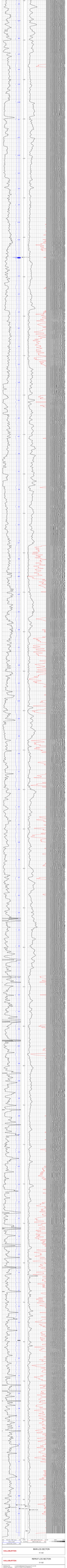
**DESCRIPTION**

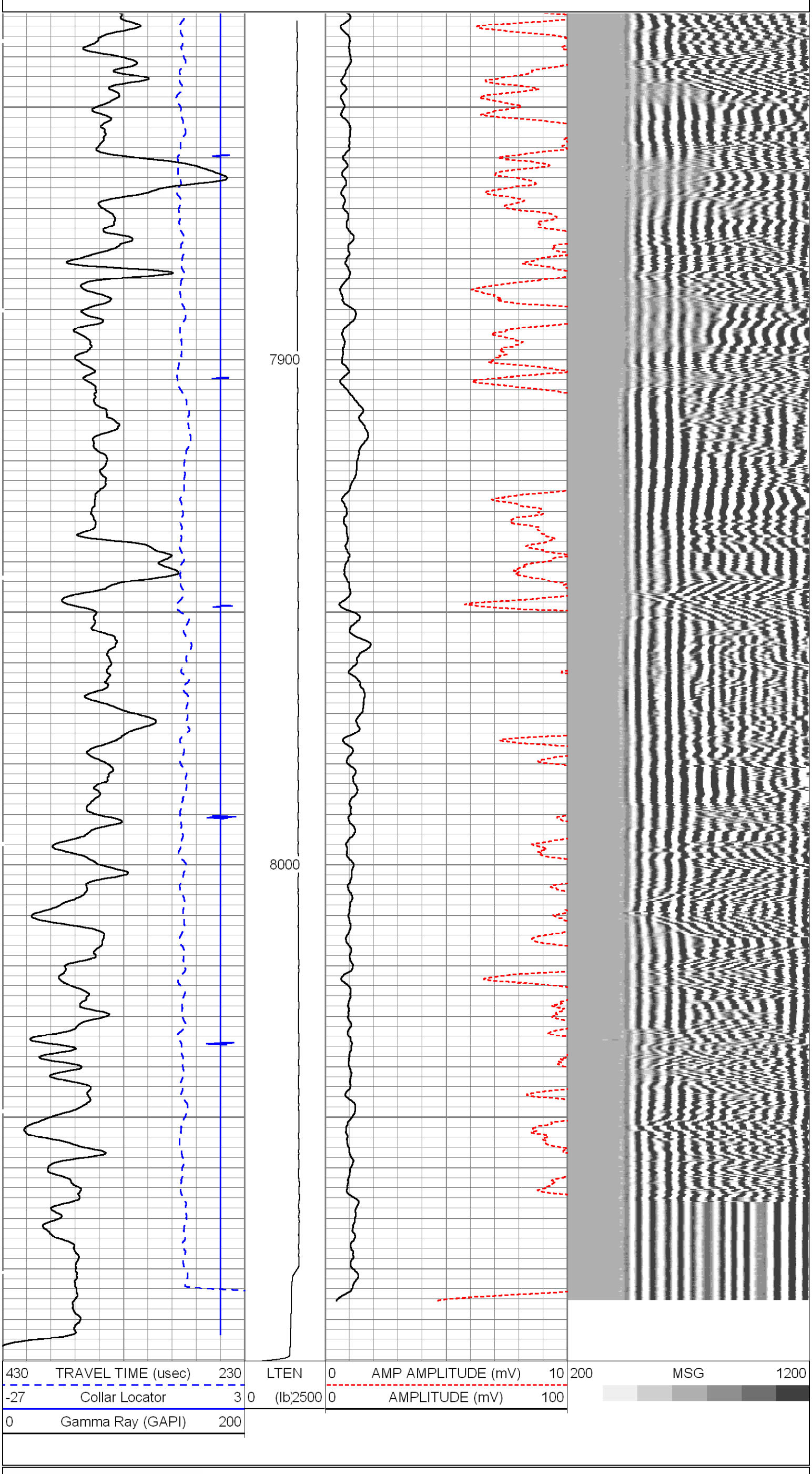
MAIN LOG SECTION

Gamma


Schlumberger Technology Corporation
Wireline & Testing
Sugar Land, Texas 77478
Field Office: 281-285-8500
Customer Service: 1-800-393-9011
Schlumberger Oilfield Services
Sugar Land, Texas 77478
Field Office: 281-285-8500
Customer Service: 1-800-393-9011


MAIN LOG SECTION
4 of 4
REPEAT LOG SECTION
27 of 27
CALIBRATION
CALIBRATION
Depth Scale
Depth Scale
Depth Scale




HALLIBURTON

# REPEAT LOG SECTION

5"=100'

## Calibration Report

Database File: C:\Warrior\Data\AUBURN\stum_06_0715_cbl.db
Dataset Pathname: WILDCAT/S060715/run1/MAIN_CBL
Dataset Creation: Thu Feb 09 20:34:46 2012

### Temperature Calibration Report

Serial Number: 081013
Tool Model: 1.375TEMP
Performed: Sun Jan 15 12:58:31 2012

| | Reference | | Reading | |
|---|---|---|---|---|
| Low Reference: | 0.00 | degF | 0.00 | cps |
| High Reference: | 1.00 | degF | 10.00 | cps |

Gain: 0.10
Offset: 0.00
Delta Spacing 1

### Gamma Ray Calibration Report

Serial Number: 081029
Tool Model: Probe
Performed: Thu Feb 09 15:52:19 2012

Calibrator Value: 243.0 GAPI

Background Reading: 75.2 cps
Calibrator Reading: 387.1 cps

Sensitivity: 0.7792 GAPI/cps

### Cement Bond Log Calibration Report

Serial Number: 081113
Tool Model: Probe
Performed: Thu Feb 09 16:24:01 2012

Depth: 908.645 ft
Casing Diameter: 7 in

| | 3' Spacing | 5' Spacing | |
|---|---|---|---|
| Signal Zero: | 2 | 2 | mV |
| Calibrated Amplitude: | 62 | 62 | mV |
| Reading at Signal Zero: | -0.00739746 | 0.00119629 | V |
| Reading in Free Pipe: | 0.175806 | 0.19668 | V |
| Gain: | 270.738 | 253.525 | |
| Offset: | 4.42271 | 1.63282 | |

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| | | | STND_CH<br>1.4375 IN CABLE HEAD | 1.00 | 1.44 | 2.00 |
| | | | CENT-Probe (PTS_MONO)<br>Probe 2 3/4 Centralizer | 2.88 | 2.75 | 35.00 |
| WVF3 | 13.32 | | CBL-Probe (081113)<br>Probe 2.75" Dual Receiver Bond | 8.92 | 2.75 | 60.00 |
| WVF5 | 12.32 | | | | | |
| | | | CENT-Probe (PT_MONO2)<br>Probe 2 3/4 Centralizer | 2.88 | 2.75 | 35.00 |
| CCL | 5.17 | | | | | |
| GR | 4.08 | | GR-Probe (081029)<br>Probe 2.75" 4 Channel Pulse | 4.71 | 2.75 | 30.00 |
| TEMP | 0.08 | | TEMP-1.375TEMP (081013)<br>Temperature Tool | 1.54 | 1.38 | 30.00 |
| LLMTEN | 0.00 | | | | | |

Dataset: stum_06_0715_cbl.db: WILDCAT/S060715/run1/MAIN_CBL
Total Length: 21.93 ft
Total Weight: 192.00 lb
O.D. 2.75 in

| | |
|---|---|
| Company | AUBURN OPERATING COMPANY, LLC |
| Well | STUM 06-0715 |
| Field | WILDCAT |
| County | LINCOLN |
| State | CO |

HALLIBURTON

ACOUSTIC CEMENT BOND LOG