PEAK WIRELINE SERVICES, INC.

# RADIAL CEMENT BOND LOG

Company WIEPKING-FULLERTON ENERGY, LLC.
Well KERRY 6
Field GREAT PLAINS
County LINCOLN State COLORADO

Location
1980' FNL & 1980' FEL
SW NE
SEC 20 TWP 10S RGE 55W

Other Services

Permanent Datum GROUND LEVEL Elevation 5192
Log Measured From KELLY BUSING 13' AGL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 5205
D.F. 5204
G.L. 5192

| | | |
|---|---|---|
| Date | 4-19-2013 | |
| Run Number | ONE | |
| Depth Driller | 7900 | |
| Depth Logger | 7834 | |
| Bottom Logged Interval | 7833 | 4650 |
| Top Log Interval | 5680 | 2700 |
| Casing Size | 5 1/2" | |
| Type Fluid | WATER | |
| Density / Viscosity | | |
| Max. Recorded Temp. | | |
| Estimated Cement Top | 5620 | |
| Time Well Ready | | |
| Time Logger on Bottom | | |
| Equipment Number | TR-8 | |
| Location | CHEYENNE WELLS, CO. | |
| Recorded By | HENDERSON | |
| Witnessed By | WADE GALLI | |

| Borehole Record | | | | Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| ONE | 12 1/4" | 0 | 313 | | | | |
| TWO | 7 7/8" | 313 | 7900 | | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | 8 5/8" | 24# | 0 | 313 |
| Prot. String | | | | |
| Production String | 5 1/2" | 17# | 0 | 7889 |
| 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

PEAK WIRELINE SERVICES, INC.

## PORT COLLAR

Database File: kerry.db
Dataset Pathname: 6/run1/pass3
Presentation Format: scbl02
Dataset Creation: Fri Apr 19 10:23:44 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

| | | | |
|---|---|---|---|
| 800 TT (usec) 200 | 0 AMP (mV) 100 | -2 AMPAVG 200 | 200 VDL 1200 / 1 Cement Map 8 |
| -9 CCL 1 | 0 AMPx5 (mV) 20 | -2 AMPMAX 200 | |
| 0 GR (GAPI) 200 | 1 Bond Index 0 | -2 AMPMIN 200 | |
| 200 GR (GAPI) 400 | | | |

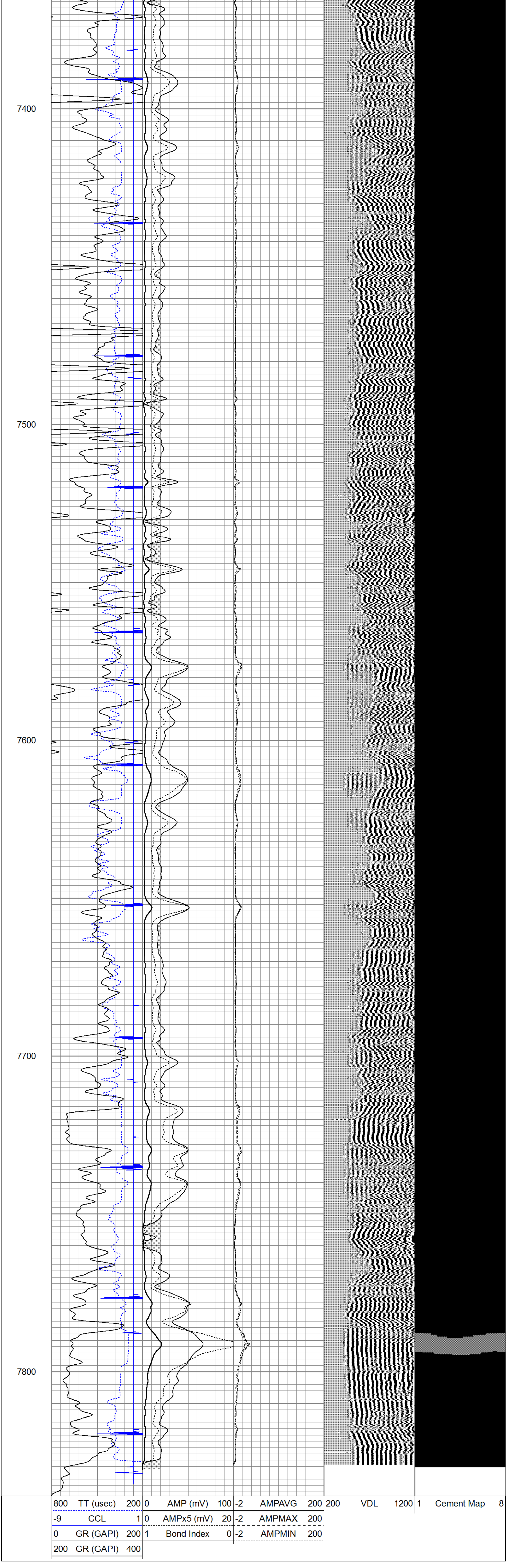
| | | | |
|---|---|---|---|
| 800 TT (usec) 200 | 0 AMP (mV) 100 | -2 AMPAVG 200 | 200 VDL 1200 / 1 Cement Map 8 |
| -9 CCL 1 | 0 AMPx5 (mV) 20 | -2 AMPMAX 200 | |
| 0 GR (GAPI) 200 | 1 Bond Index 0 | -2 AMPMIN 200 | |
| 200 GR (GAPI) 400 | | | |

PEAK WIRELINE SERVICES, INC.

## MAINPASS

Database File: kerry.db
Dataset Pathname: 6/run1/pass2
Presentation Format: scbl02
Dataset Creation: Fri Apr 19 09:35:55 2013 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

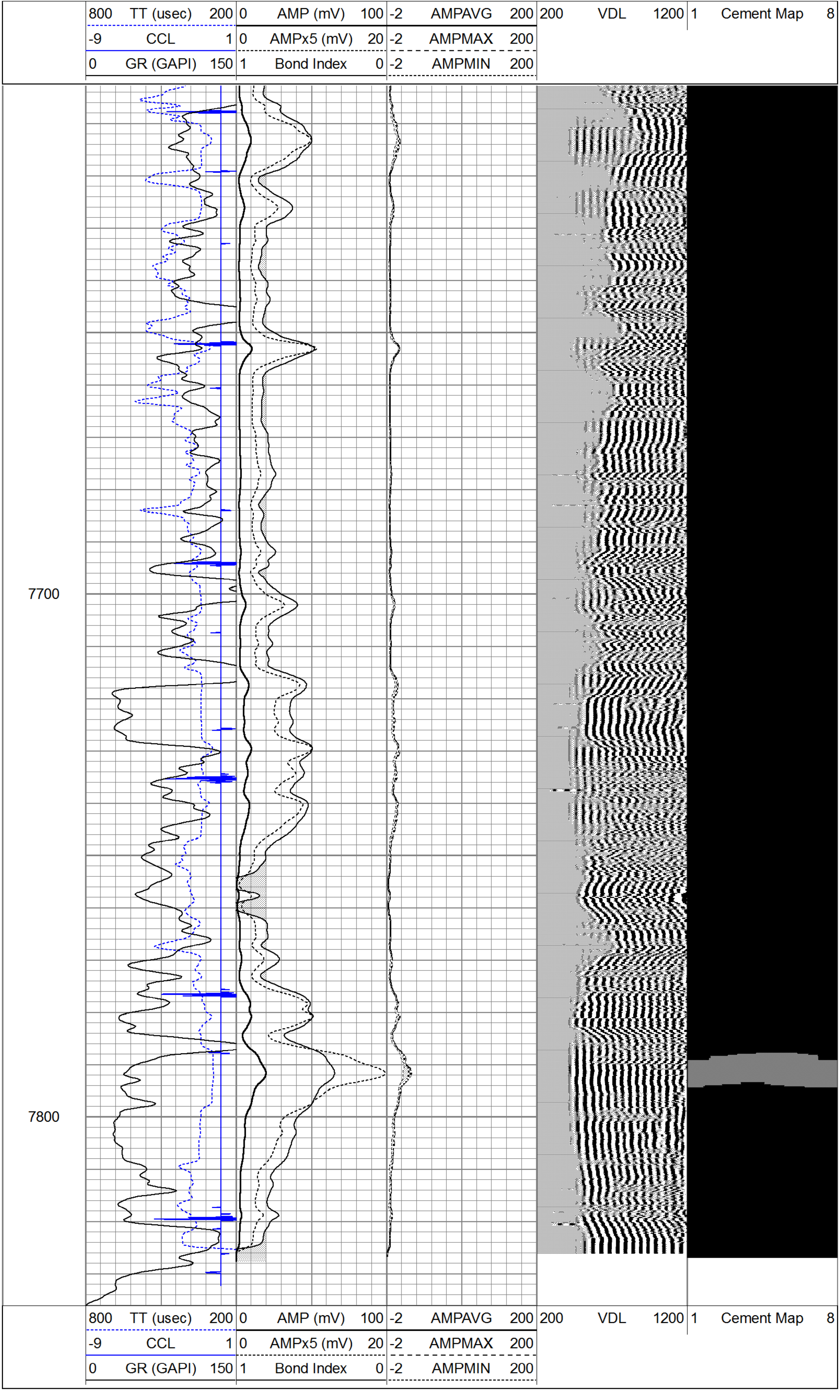
| | | | |
|---|---|---|---|
| 800 TT (usec) 200 | 0 AMP (mV) 100 | -2 AMPAVG 200 | 200 VDL 1200 / 1 Cement Map 8 |
| -9 CCL 1 | 0 AMPx5 (mV) 20 | -2 AMPMAX 200 | |
| 0 GR (GAPI) 200 | 1 Bond Index 0 | -2 AMPMIN 200 | |
| 200 GR (GAPI) 400 | | | |



**PEAK WIRELINE SERVICES, INC.**

# REPEAT SECTION

| | |
|---|---|
| Database File: | kerry.db |
| Dataset Pathname: | 6/run1/pass1 |
| Presentation Format: | scbl02 |
| Dataset Creation: | Fri Apr 19 09:28:40 2013 by Log Std Casedhole 10071 |
| Charted by: | Depth in Feet scaled 1:240 |



## Calibration Report

| | |
|---|---|
| Database File: | kerry.db |
| Dataset Pathname: | 6/run1/pass2 |
| Dataset Creation: | Fri Apr 19 09:35:55 2013 by Log Std Casedhole 10071 |

### Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | 061120GR | |
| Tool Model: | PROBE | |
| Performed: | Thu Apr 18 07:11:02 2013 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 85.8 | cps |
| Sensitivity: | 1.2000 | GAPI/cps |

### Segmented Cement Bond Log Calibration Report

| | | |
|---|---|---|
| Serial Number: | 4.5040904 | |
| Tool Model: | Probe | |
| Calibration Casing Diameter: | 5.500 | in |
| Calibration Depth: | 4721.550 | ft |

Master Calibration, performed Fri Apr 19 09:42:37 2013:

| | Raw (v) | | Calibrated (mv) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.013 | 1.626 | 0.100 | 71.921 | 44.515 | -0.481 |
| CAL | 1.996 | 1.959 | | | | |
| 5' | 0.017 | 1.611 | 0.250 | 71.921 | 44.947 | -0.495 |
| SUM | | | | | | |
| S1 | 0.010 | 1.629 | 0.000 | 100.000 | 61.760 | -0.615 |
| S2 | 0.012 | 1.646 | 0.000 | 100.000 | 61.166 | -0.707 |
| S3 | 0.011 | 1.670 | 0.000 | 100.000 | 60.266 | -0.664 |
| S4 | 0.011 | 1.681 | 0.000 | 100.000 | 59.881 | -0.657 |
| S5 | 0.013 | 1.629 | 0.000 | 100.000 | 61.876 | -0.804 |
| S6 | 0.017 | 1.558 | 0.000 | 100.000 | 64.862 | -1.082 |
| S7 | 0.016 | 1.537 | 0.000 | 100.000 | 65.753 | -1.063 |
| S8 | 0.016 | 1.579 | 0.000 | 100.000 | 63.970 | -1.028 |

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

| | Raw (v) | | Calibrated (v) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 1.996 | 1.959 | 1.000 | 0.000 |

Air Zero Calibration, performed Fri Apr 19 09:02:38 2013:

| | Raw (v) | Calibrated (v) | Results |
|---|---|---|---|
| | Zero | Zero | Offset |
| 3' | 0.000 | 0.000 | 0.000 |
| 5' | 0.000 | 0.000 | 0.000 |
| SUM | | | |
| S1 | 0.000 | 0.000 | 0.000 |
| S2 | 0.000 | 0.000 | 0.000 |
| S3 | 0.000 | 0.000 | 0.000 |
| S4 | 0.000 | 0.000 | 0.000 |
| S5 | 0.000 | 0.000 | 0.000 |
| S6 | 0.000 | 0.000 | 0.000 |
| S7 | 0.000 | 0.000 | 0.000 |
| S8 | 0.000 | 0.000 | 0.000 |