


|  |                                |              |             |              |                             |
|--|--------------------------------|--------------|-------------|--------------|-----------------------------|
|  <b>Ground Survey</b> | <b>Title:</b>                  | <b>Date:</b> | <b>Rev:</b> | <b>Page:</b> | <b>File Name:</b>           |
|  | GS31-01-01-01<br>GPS LOG SHEET | 6/6/2014     | 1           | 1            | GS31-01-01-01_GPS_LOG_SHEET |

|   |                           |
|---|---------------------------|
| Date(s) (mm/dd/yyyy): <b>02/27/2015</b> | Julian Day(s): <b>059</b> |
| Project: <b>4478</b>                    | Observer: <b>Kirkwood</b> |

**Antenna Formulas**

|                                      |   |
|--------------------------------------|---|
| 4000SSi / 4000SSE Compact L1/L2      | Bottom of notch in antenna flange = $0.0069 + (h^2 - (0.0915)^2)^{1/2}$   |
| Trimble 5700 Zephyr (small)          | Top of notch in antenna flange = $0.0073 + (h^2 - (0.0937)^2)^{1/2}$      |
| Trimble 5700 Zephyr Geodetic (large) | Bottom of notch in antenna flange = $0.00891 + (h^2 - (0.16981)^2)^{1/2}$ |
| Novatel DL                           | Top edge of tape notch = $0.015 + (h^2 - (0.96)^2)^{1/2}$                 |
| Novatel DL4                          | Top of tab on side of antenna = $0.025 + (h^2 - (0.1)^2)^{1/2}$           |

Circle one or indicate next to File Name: NETWORK SURVEY OR AGPS; LIDAR OR PHOTOGRAPHY OR BOTH

**Receiver Serial #: 0005 File Name: 00050580**

|                   |                              |                       |
|-------------------|------------------------------|-----------------------|
| Code: <b>KTUS</b> | Description:                 | Day-Session: <b>0</b> |
| Stamping:         | <b>Tucson Airport</b>        | Start: <b>22:13</b>   |
|                   | <b>Continued from Day058</b> | End: <b>16:50</b>     |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **1.545** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ **60 7/8** feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: 0011 File Name: 00110600**

|                        |                                |                    |
|------------------------|--------------------------------|--------------------|
| Code:                  | Description:                   | Session: <b>0</b>  |
| Stamping: <b>TUS 3</b> | <b>Spike at Marana Airport</b> | Start: <b>0:34</b> |
|                        | <b>Base Station 3</b>          | End: <b>1:36</b>   |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **2 FIXED** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: 0011 File Name: 00110591**

|                     |                  |                     |
|---------------------|------------------|---------------------|
| Code: <b>CZ0209</b> | Description:     | Session: <b>1</b>   |
| Stamping:           | <b>NGS Point</b> | Start: <b>14:32</b> |
|                     |                  | End: <b>17:16</b>   |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **2 FIXED** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: File Name:**

|           |              |          |
|-----------|--------------|----------|
| Code:     | Description: | Session: |
| Stamping: |              | Start:   |
|           |              | End:     |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: 0001 File Name: 00010592**

|                        |                       |                     |
|------------------------|-----------------------|---------------------|
| Code:                  | Description:          | Session: <b>2</b>   |
| Stamping: <b>TUS 4</b> | <b>Spike</b>          | Start: <b>15:49</b> |
|                        | <b>Base station 4</b> | End: <b>23:17</b>   |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **2 FIXED** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: File Name:**

|           |              |          |
|-----------|--------------|----------|
| Code:     | Description: | Session: |
| Stamping: |              | Start:   |
|           |              | End:     |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: 0011 File Name: 00110592**

|                        |                       |                     |
|------------------------|-----------------------|---------------------|
| Code:                  | Description:          | Session: <b>2</b>   |
| Stamping: <b>TUS 5</b> | <b>Spike</b>          | Start: <b>19:42</b> |
|                        | <b>Base station 5</b> | End: <b>20:42</b>   |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **2 FIXED** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: File Name:**

|           |              |          |
|-----------|--------------|----------|
| Code:     | Description: | Session: |
| Stamping: |              | Start:   |
|           |              | End:     |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Receiver Serial #: 0001 File Name: 00010600**

|                     |                  |                    |
|---------------------|------------------|--------------------|
| Code: <b>AH8499</b> | Description:     | Session: <b>0</b>  |
| Stamping:           | <b>NGS Point</b> | Start: <b>0:05</b> |
|                     |                  | End: <b>2:06</b>   |

*Measurements*

\_\_\_\_\_ " \_\_\_\_\_ **2 FIXED** m \_\_\_\_\_ Uncorrected \_\_\_\_\_ True Vertical  
 \_\_\_\_\_ meters → \_\_\_\_\_ meters  
 \_\_\_\_\_ feet → \_\_\_\_\_ m → (mean)

**Code: Numbering Convention: begin with 501, 701, 801, 901**

|                                  |                                     |
|----------------------------------|-------------------------------------|
| 1- 499: paneled points           | 800 series: NGS vertical only       |
| 500 series: Sanborn set for base | 900 series: NGS horiz. and vertical |
| 700 series: NGS Horizontal only  | 1' = 0.3048 m; 1" = 0.0254 m        |

**Description Examples:** 12" spike, 6" spike, rebar, pk nail, mag nail, Disc in concrete, rod in sleeve, Disc in seawall, etc. **AND INCLUDE** Airport name point is located at if applicable.