

## PLSS GPS Observation Sheet

|  |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|--|-----------------------------|----------------|--------|---------------------------|-----------|----------------------------------|-----------------------------------|-----------------|-----------------------------|----------|----------|-----------------------|---|---------------|---|-----|---|----|---|---|---|---|---|---|---|---|---|---|--|--|
| Project Name<br><b>SL T17S R10E</b><br>(Meridian Township Range) |   | Township   |                             | 1/2<br>(2)     | N<br>S | Range                     |           | 1/2<br>(2)                       | E<br>W                            | Section         |                             | Meridian |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
|  |   | T  | 1                           | 7              |        | S                         | 1         | 0                                |                                   | E               |                             |          | (SL)     | US                    |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Contacts Name Lee M. Swasey                                      |   | Source Agency<br>JOHANSEN & TUTTLE ENGINEERING       |                             |                |        |                           |           |                                  | Date<br>12/07/05                  |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Contacts Phone (435) 381-2523                                    |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Control Station</b>   |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Name<br>CP-WEST  |   | Type<br>COR HARN TRI <u>Other</u> LOCAL SURVEY       |                             |                |        |                           |           |                                  | Accuracy<br>Order                 |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| USGS Quad Name<br>ELMO UTAH                                      |   | Datum<br>Nad27 Nad83 <u>Nad83 (1994)</u> WGS84 Local |                             |                |        |                           |           |                                  | State UTAH<br>County EMERY        |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Latitude   |   |  |                             |                |        |                           | Longitude |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| N  | 3 | 9  | -                           | 2              | 8      | -                         | 0         | 8                                | .                                 | 2               | 2                           | 8        | 1        | 8                     | W | 1             | 1 | 0   | - | 4  | 7 | - | 1 | 5 | . | 1 | 3 | 2 | 7 | 7 |  |  |
| Northing   |   |  |                             |                |        |                           | Easting   |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| 6  | 9 | 7  | 6                           | 1              | 1      | 2                         | .         | 8                                | 0                                 |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Units  |   |  |                             | Survey Foot    |        | <u>International Foot</u> |           | Meter                            |                                   | Coordinate Type |                             |          |          | <u>State Plane</u>    |   | UTM           |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Zone   |   |  |                             | Utah North     |        | <u>Utah Central</u>       |           | Utah South                       |                                   | Vertical Datum  |                             |          |          | NGVD29                |   | <u>NAVD88</u> |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Ellipsoid Height   |   |  |                             | 1711.15 M      |        |                           |           | FT                               |                                   | Geoid Height    |                             |          |          | M                     |   | 5671.75 FT    |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Base Receiver</b>   |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Type TRIMBLE   |   |  |                             | Model 4000 SSI |        |                           |           | Serial Number                    |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Logging Interval 5 SEC.  |   |  | Elevation Mask 13           |                |        | PDOP Mask 6               |           |                                  | Antenna Type L1/L2 w/GROUND PLANE |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Start Time   |   |  |                             |                |        | AM                        |           | PM                               |                                   | End Time        |                             |          |          |                       |   | AM            |   | PM  |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Antenna Height   |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Session Beginning  |   | 1 <sup>st</sup>                                      |                             | M              |        | 2 <sup>nd</sup>           |           | M                                |                                   | 3 <sup>rd</sup> |                             | M        |          | Ave 4.311 Feet M      |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Session End  |   | 1 <sup>st</sup>                                      |                             | M              |        | 2 <sup>nd</sup>           |           | M                                |                                   | 3 <sup>rd</sup> |                             | M        |          | Ave M                 |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Rover Receiver</b>  |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Type TRIMBLE   |   |  |                             | Model 5800     |        |                           |           | Serial Number 4253117118         |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Approximate Distance From Base Station                           |   |  |                             |                |        | Miles                     |           | Antenna Type 5800 INTERNAL       |                                   |                 |                             |          |          | Antenna Height 6.6 FT |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Station Observation</b>                                       |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Observation Type   |   | <u>RTK</u>   |                             | FAST STATIC    |        | STATIC                    |           | OTHER                            |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| First Observation  |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Station Name (M1)  |   | 5  | 0                           | 0              | 4      | 4                         | 0         | Description E 1/4 corner Sec. 15 |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Occupation time  |   |  |                             | PDOP Best      |        |                           |           |                                  |                                   | RMS Best        |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Number of Measurements 60  |   |  |                             | PDOP Worst 2.2 |        |                           |           |                                  |                                   | RMS Worst 24.1  |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Second Observation   |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Station Name (M2)  |   | Description  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Occupation time  |   |  |                             | PDOP Best      |        |                           |           |                                  |                                   | RMS Best        |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Number of Measurements   |   |  |                             | PDOP Worst     |        |                           |           |                                  |                                   | RMS Worst       |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Inverse Distance Between M1 and M2                               |   |  |                             |                |        |                           |           |                                  | FT                                |                 | Alternate Base Station Used |          |          |                       |   |               |   | Yes |   | No |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Monument and Markings</b>                                     |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Type / Size  |   |  |                             |                |        |                           |           |                                  |                                   |                 |                             |          |          |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Stone  |   |  | Pipe/Cap                    |                |        |                           |           |                                  | Post                              |                 |                             |          | Other    |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Size   |   |  | Size 2 1/2 / 3 1/4 2005 ECS |                |        |                           |           |                                  | Size                              |                 |                             |          | Size     |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |
| Material   |   |  | Material alum. / alum.      |                |        |                           |           |                                  | Material                          |                 |                             |          | Material |                       |   |               |   |     |   |    |   |   |   |   |   |   |   |   |   |   |  |  |

Sketch/Rubbing or Attach Photo of GPS Station Occupied  
Show rotation of stampings/markings relative to North and describe briefly

See Emery County Land Survey Monument Record Sheet 1710500440