

## PLSS GPS Observation Sheet

| Project Name<br><b>SL T16S R10E</b><br>(Meridian Township Range) |   | Township<br>T 1 6   |   | 1/2<br>(2)   | N<br>S | Range<br>1 0  |           | 1/2<br>(2)  | E<br>W | Section                      |   | Meridian<br>(SL) US                             |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|---|---|--|--------|---|-----------|---|--------|------------------------------|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Contacts Name <b>Lee M. Swasey</b>                               |   | Source Agency<br><b>JOHANSEN &amp; TUTTLE ENGINEERING</b> |   |  |        |   |           | Date<br><b>12/06/05</b>   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Contacts Phone <b>(435) 381-2523</b>                             |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Control Station  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Name <b>CP-WEST</b>  |   | COR   |   | HARN   |        | TRI   |           | Type<br><input checked="" type="checkbox"/> LOCAL SURVEY <input type="checkbox"/> Other |        |                              |   | Accuracy  |   | Order                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| USGS Quad Name<br><b>ELMO UTAH</b>                               |   | Nad27   |   | Nad83  |        | Datum<br><input checked="" type="checkbox"/> Nad83 (1994) <input type="checkbox"/> WGS84 <input type="checkbox"/> Local |           | State <b>UTAH</b>   |        | County <b>EMERY</b>          |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 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      |                              |   |   |   |  | 1 | 8 | 4 | 1 | 5 | 4 | 5 | . | 4 | 0 |   |   |   |   |   |   |  |  |
| Units  |   | Survey Foot   |   | <input checked="" type="checkbox"/> International Foot |        | Meter   |           | Coordinate Type   |        |                              |   | <input checked="" type="checkbox"/> State Plane |   | UTM  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Zone   |   | Utah North  |   | <input checked="" type="checkbox"/> Utah Central       |        | Utah South  |           | Vertical Datum  |        |                              |   | NGVD29  |   | <input checked="" type="checkbox"/> NAVD88 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Ellipsoid Height   |   | 1711.15 M   |   | FT   |        | Geoid Height  |           |   |        | M                            |   | 5671.75 FT                                      |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Base Receiver  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Type <b>TRIMBLE</b>  |   |   |   | Model <b>4000 SSI</b>                                  |        |   |           | Serial Number   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Logging Interval <b>5 SEC.</b>                                   |   | Elevation Mask <b>13</b>                                  |   | PDOP Mask <b>6</b>                                     |        | Antenna Type <b>L1/L2 w/GROUND PLANE</b>  |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Start Time   |   |   |   | AM   |        | PM  |           | End Time  |        |                              |   | AM  |   | PM   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Antenna Height   |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Session Beginning  |   | 1"  |   | M  |        | 2"  |           | M   |        | 3"                           |   | M   |   | Ave <b>4.482 Feet M</b>                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Session End  |   | 1"  |   | M  |        | 2"  |           | M   |        | 3"                           |   | M   |   | Ave <b>M</b>                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Rover Receiver   |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Type <b>TRIMBLE</b>  |   |   |   | Model <b>5800</b>                                      |        |   |           | Serial Number <b>4253117118</b>   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Approximate Distance From Base Station                           |   |   |   | Miles  |        | Antenna Type <b>5800 INTERNAL</b>   |           |   |        | Antenna Height <b>6.6 FT</b> |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Station Observation  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Observation Type   |   | <input checked="" type="checkbox"/> RTK                   |   | FAST STATIC  |        | STATIC  |           | OTHER   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| First Observation  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Station Name (M1)  |   | 7 0 0 6 4 0   |   | Description <b>E 1/4 corner Sec. 1</b>                 |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Occupation time  |   | PDOP Best   |   |  |        | RMS Best  |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Number of Measurements <b>60</b>                                 |   | PDOP Worst <b>1.6</b>                                     |   |  |        | RMS Worst <b>11.5</b>   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 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                       |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Monument and Markings  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Type / Size  |   |   |   |  |        |   |           |   |        |                              |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Stone  |   | Pipe/Cap  |   |  |        | Post  |           |   |        | Other                        |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Size   |   | Size <b>2 1/2 / 3/4 2005 ECS</b>                          |   |  |        | Size  |           |   |        | Size                         |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Material   |   | Material <b>steel / brass</b>                             |   |  |        | 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 1610700640

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-10-05

County Reference No. 1610700-640

Type of Monument: \_\_\_\_\_ Section Corner  
 \_\_\_\_\_ Bench Mark

Quarter Corner  
 \_\_\_\_\_ Other \_\_\_\_\_

Your Description and Observation of Monument Found ( Be Specific ):

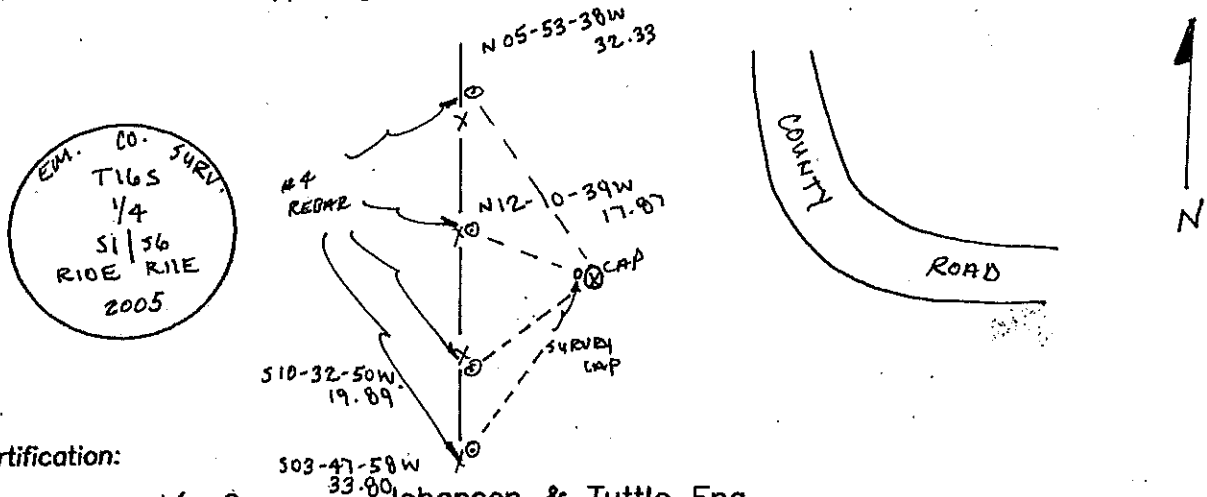
MONUMENT NEVER SET.

FOUND A SURVEY CAP ON #5 REBAR @ CORNER LOCATION.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET ALUMINUM EMERY COUNTY SURVEYS CAP 6" ABOVE GROUND LEVEL.

SET 4 #4 REBAR AS SHOWN BELOW.

Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.

Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

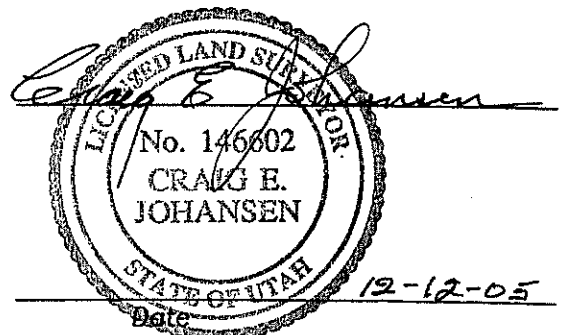
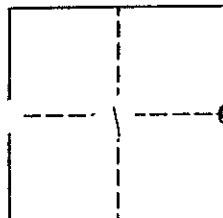
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 1

Township: 16S

Range: 10E



## PLSS GPS Observation Sheet

| Project Name<br><b>SL T16S R10E</b><br><small>(Meridian Township Range)</small>  |  |  |  | Township<br><b>T 1 6</b>   |  |  | N<br><b>(2) S</b> |   | Range<br><b>1 0</b> |                         | E<br><b>(2) W</b> |   | Section |  | Meridian<br><b>(SL) US</b> |          |  |  |  |
|--|--|--|--|--|--|--|-------------------|---|---------------------|-------------------------|-------------------|---|---------|--|----------------------------|----------|--|--|--|
| Contacts Name <b>Lee M. Swasey</b>   |  |  |  | Source Agency<br><b>JOHANSEN &amp; TUTTLE ENGINEERING</b>                                    |  |  |                   |   |                     | Date<br><b>12/06/05</b> |                   |   |         |  |                            |          |  |  |  |
| Contacts Phone <b>(435) 381-2523</b>   |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Control Station  |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Name <b>CP-WEST</b>  |  |  |  | Type<br><input checked="" type="checkbox"/> LOCAL SURVEY                                     |  |  |                   | Accuracy  |                     |                         |                   | Order   |         |  |                            |          |  |  |  |
| USGS Quad Name<br><b>ELMO UTAH</b>   |  |  |  | Datum<br><input checked="" type="checkbox"/> Nad83 (1994)                                    |  |  |                   | State <b>UTAH</b>   |                     |                         |                   | County <b>EMERY</b>   |         |  |                            |          |  |  |  |
| Latitude   |  |  |  | Longitude  |  |  |                   | Northing  |                     |                         |                   | Easting   |         |  |                            |          |  |  |  |
| <b>N 3 9 - 2 8 - 0 8 . 2 2 8 1 8</b>   |  |  |  | <b>W 1 1 0 - 4 7 - 1 5 . 1 3 2 7 7</b>   |  |  |                   | <b>6 9 7 6 1 1 2 . 8 0</b>  |                     |                         |                   | <b>1 8 4 1 5 4 5 . 4 0</b>  |         |  |                            |          |  |  |  |
| Units <input type="checkbox"/> Survey Foot <input checked="" type="checkbox"/> International Foot <input type="checkbox"/> Meter                             |  |  |  | Coordinate Type <input type="checkbox"/> State Plane <input checked="" type="checkbox"/> UTM |  |  |                   | Zone <input type="checkbox"/> Utah North <input checked="" type="checkbox"/> Utah Central <input type="checkbox"/> Utah South |                     |                         |                   | Vertical Datum <input type="checkbox"/> NGVD29 <input checked="" type="checkbox"/> NAVD88 |         |  |                            |          |  |  |  |
| Ellipsoid Height <b>1711.15 M</b>  |  |  |  | Geoid Height <b>M 5671.75 FT</b>   |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Base Receiver  |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Type <b>TRIMBLE</b>  |  |  |  | Model <b>4000 SSI</b>  |  |  |                   | Serial Number   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Logging Interval <b>5 SEC.</b>   |  |  |  | Elevation Mask <b>13</b>   |  |  |                   | PDOP Mask <b>6</b>  |                     |                         |                   | Antenna Type <b>L1/L2 w/GROUND PLANE</b>  |         |  |                            |          |  |  |  |
| Start Time   |  |  |  | End Time   |  |  |                   | Antenna Height  |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Session Beginning  |  |  |  | Session End  |  |  |                   | Ave   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| <b>1" M 2<sup>nd</sup> M 3<sup>rd</sup> M</b>  |  |  |  | <b>1" M 2<sup>nd</sup> M 3<sup>rd</sup> M</b>  |  |  |                   | <b>4.482 Feet M</b>   |                     |                         |                   | <b>M</b>  |         |  |                            |          |  |  |  |
| Rover Receiver   |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Type <b>TRIMBLE</b>  |  |  |  | Model <b>5800</b>  |  |  |                   | Serial Number <b>4253117118</b>   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Approximate Distance From Base Station   |  |  |  | Antenna Type <b>5800 INTERNAL</b>  |  |  |                   | Antenna Height <b>6.6 FT</b>  |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Station Observation  |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Observation Type <input checked="" type="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> OTHER |  |  |  | First Observation  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Station Name (M1) <b>7 0 0 6 0 0</b>   |  |  |  | Description <b>SE corner Sec. 1</b>  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Occupation time  |  |  |  | PDOP Best  |  |  |                   | RMS Best  |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Number of Measurements <b>60</b>   |  |  |  | PDOP Worst <b>1.3</b>  |  |  |                   | RMS Worst <b>17.8</b>   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Station Name (M2)  |  |  |  | Description  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Occupation time  |  |  |  | PDOP Best  |  |  |                   | RMS Best  |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Number of Measurements   |  |  |  | PDOP Worst   |  |  |                   | RMS Worst   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Inverse Distance Between M1 and M2   |  |  |  | Alternate Base Station Used  |  |  |                   | Yes   |                     |                         |                   | No  |         |  |                            |          |  |  |  |
|  |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Monument and Markings  |  |  |  |  |  |  |                   |   |                     |                         |                   |   |         |  |                            |          |  |  |  |
| Type / Size  |  |  |  | Stone  |  |  |                   | Pipe/Cap  |                     |                         |                   | Post  |         |  |                            | Other    |  |  |  |
| Size   |  |  |  | Material   |  |  |                   | Size <b>2 1/2 / 3/4 2005 ECS</b>  |                     |                         |                   | Material  |         |  |                            | Size     |  |  |  |
| Material   |  |  |  | Material <b>steel / brass</b>  |  |  |                   | Material  |                     |                         |                   | 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 1610700600

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-10-05

County Reference No. 1610700600

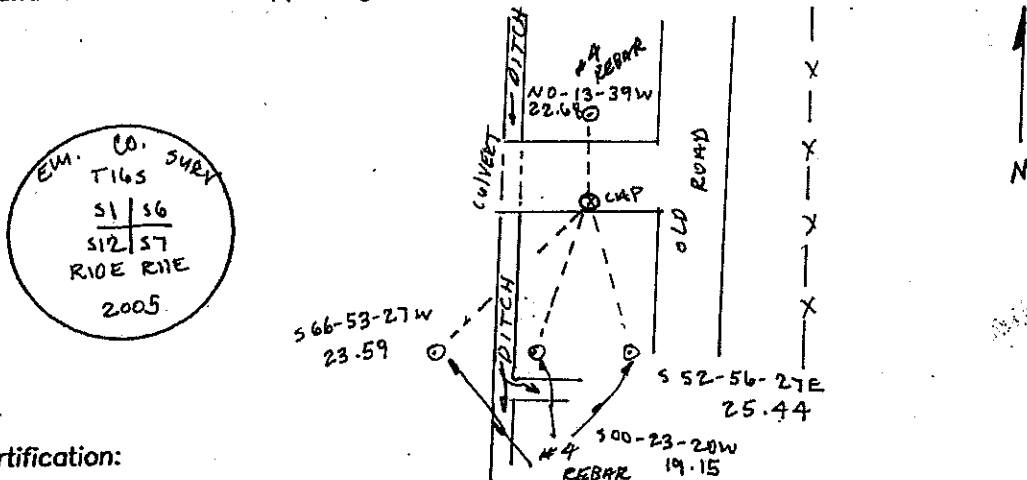
Type of Monument:  Section Corner  
 Bench Mark

Quarter Corner  
 Other \_\_\_\_\_

Your Description and Observation of Monument Found ( Be Specific ):  
MONUMENT NEVER SET.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET ALUMINUM EMERY COUNTY SURVEYS CAP 2" BELOW GROUND LEVEL.  
SET 4 #4 REBAR AS SHOWN BELOW.

Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



Certification:

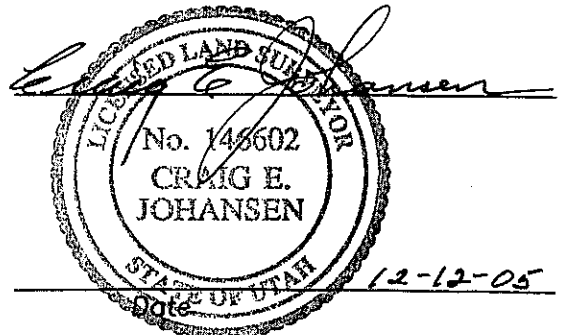
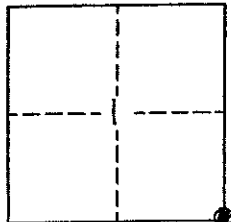
Firm name and/or Surveyor: Johansen & Tuttle Eng.

Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 1  
 Township: 16S  
 Range: 10E



## PLSS GPS Observation Sheet

| Project Name<br><b>SL T16S R10E</b><br><small>(Meridian Township Range)</small> |   | Township  |   | ½<br>(2)   | N<br>S | Range                             |           | ½<br>(2)                        | E<br>W                                   | Section   |   | Meridian                                   |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|--|--------|-----------------------------------|-----------|---------------------------------|--|---|---|--|----|----------------------|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   |   | T   | 1 | 6  |        | S                                 | 1         | 0                               |  | E   |   | (SL)                                       | US |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Contacts Name <b>Lee M. Swasey</b>  |   | Source Agency<br><b>JOHANSEN &amp; TUTTLE ENGINEERING</b>   |   |  |        |                                   |           |                                 | Date<br><b>12/01/05</b>                  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Contacts Phone <b>(435) 381-2523</b>  |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Control Station   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Name<br><b>CP - 1</b>   |   | Type<br><input type="checkbox"/> COR <input type="checkbox"/> HARN <input type="checkbox"/> TRI <input checked="" type="checkbox"/> Other <input type="checkbox"/> Local Survey |   |  |        |                                   |           |                                 | Accuracy<br>Order                        |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| USGS Quad Name<br><b>OLSEN RESERVOIR UTAH</b>                                   |   | Datum<br>Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local   |   |  |        |                                   |           |                                 | State <b>UTAH</b><br>County <b>EMERY</b> |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Latitude  |   |   |   |  |        |                                   | Longitude |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| N   | 3 | 9   | - | 2  | 6      | -                                 | 1         | 6                               | .  | 2   | 0 | 1  | 4  | 5                    | W | 1    | 1 | 0 | - | 4 | 2 | - | 2 | 8 | . | 1 | 7 | 5 | 6 | 3 |
| Northing  |   |   |   |  |        |                                   | Easting   |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6   | 9 | 6   | 4 | 9  | 6      | 8                                 | .         | 4                               | 0  |   |   |  |    |                      | 1 | 8    | 6 | 4 | 1 | 4 | 7 | . | 1 | 2 |   |   |   |   |   |   |
| Units   |   | Survey Foot   |   | <input checked="" type="checkbox"/> International Foot |        | Meter                             |           | Coordinate Type                 |  | <input checked="" type="checkbox"/> State Plane |   | UTM  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Zone  |   | Utah North  |   | <input checked="" type="checkbox"/> Utah Central       |        | Utah South                        |           | Vertical Datum                  |  | NGVD29  |   | <input checked="" type="checkbox"/> NAVD88 |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ellipsoid Height  |   | M   |   | 5481.181 FT  |        | Geoid Height                      |           | M                               |  | 5538.90 FT                                      |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Base Receiver   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Type <b>TRIMBLE</b>   |   |   |   | Model <b>4000 SSI</b>                                  |        |                                   |           | 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"  |   | M  |        | 2"                                |           | M                               |  | 3"  |   | M  |    | Ave 4.206 Feet M     |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Session End   |   | 1"  |   | M  |        | 2"                                |           | M                               |  | 3"  |   | M  |    | Ave M                |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rover Receiver  |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Type <b>TRIMBLE</b>   |   |   |   | Model <b>5800</b>                                      |        |                                   |           | Serial Number <b>4253117118</b> |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Approximate Distance From Base Station  |   |   |   | Miles  |        | Antenna Type <b>5800 INTERNAL</b> |           |                                 |  | Antenna Height <b>6.6 FT</b>                    |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Station Observation   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Observation Type  |   | <input checked="" type="checkbox"/> RTK   |   | <input type="checkbox"/> FAST STATIC                   |        | <input type="checkbox"/> STATIC   |           | <input type="checkbox"/> OTHER  |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| First Observation   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Station Name (M1)   |   | 6   |   | 4  | 0      | 7                                 | 0         | 0                               | Description <b>N 1/4 corner Sec. 1</b>   |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Occupation time   |   | PDOP Best   |   |  |        | RMS Best                          |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Number of Measurements  |   | 60  |   |  |        | PDOP Worst                        |           |                                 |  | 2.2   |   |  |    | RMS Worst            |   | 14.6 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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   |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Monument and Markings   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Type / Size   |   |   |   |  |        |                                   |           |                                 |  |   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stone   |   | Pipe/Cap  |   |  |        | Post                              |           |                                 |  | Other   |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Size  |   | Size <b>2½ / 3¼ 1969 BLM</b>  |   |  |        | Size                              |           |                                 |  | Size  |   |  |    |                      |   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Material  |   | Material <b>steel / brass</b>   |   |  |        | 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 1610640700

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-01-05

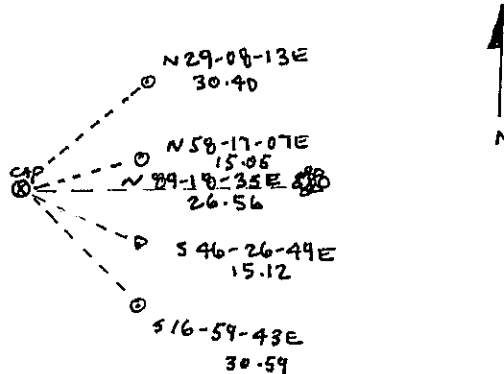
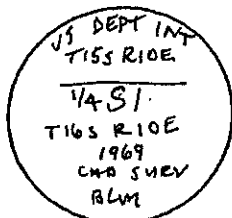
County Reference No. 1610640700

Type of Monument:            Section Corner   ✓   Quarter Corner  
           Bench Mark            Other           

Your Description and Observation of Monument Found ( Be Specific ):  
 1969 BLM BRASS CAP 10" ABOVE GROUND LEVEL WITH THE CONTIGUING CORNER FOR  
 TOWNSHIP 15 SOUTH SECTION 36 SETTING TO THE EAST AS SHOWN BELOW.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the  
 Location of this Point: SET 4 #5 REBAR AS SHOWN BELOW

Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether  
 Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.

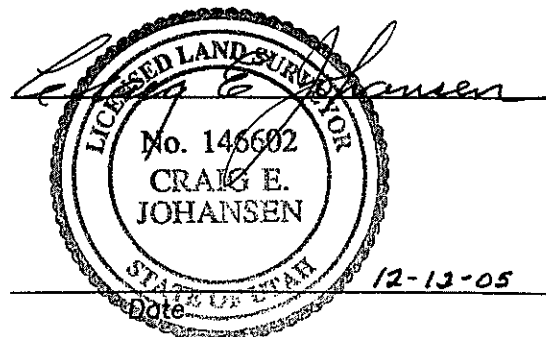
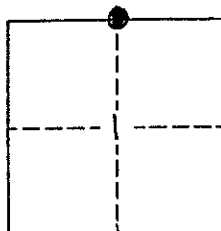


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.  
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:  
 Section: 1  
 Township: 16S  
 Range: 10E



## PLSS GPS Observation Sheet

| Project Name<br><b>SL T16S R10E</b><br><small>(Meridian Township Range)</small> |   | Township  |                                |                       | ½<br>(2)             | N<br>S                                   | Range        |                                 | ½<br>(2)                | E<br>W                       | Section  |    | Meridian          |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|--------------------------------|-----------------------|----------------------|--|--------------|---------------------------------|-------------------------|------------------------------|----------|----|-------------------|-------------------------|----|---|----|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--|
|   |   | T   | 1                              | 6                     |                      | S  | 1            | 0                               |                         | E                            |          |    | (SL)              | US                      |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Contacts Name <b>Lee M. Swasey</b>  |   | Source Agency<br><b>JOHANSEN &amp; TUTTLE ENGINEERING</b> |                                |                       |                      |  |              |                                 | Date<br><b>12/01/05</b> |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Contacts Phone <b>(435) 381-2523</b>  |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Control Station   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Name<br><b>CP - 1</b>   |   | Type  |                                |                       |                      |  |              |                                 | Accuracy                |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   | COR   | HARN                           | TRI                   | (Other) Local Survey |  |              |                                 | Order                   |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| USGS Quad Name<br><b>OLSEN RESERVOIR UTAH</b>                                   |   | Datum   |                                |                       |                      |  |              |                                 | State <b>UTAH</b>       |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   | Nad27   | Nad83                          | (Nad83<br>1994)       |                      | WGS84                                    | Local        |                                 | County <b>EMERY</b>     |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Latitude  |   |   |                                |                       |                      |  | Longitude    |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| N   | 3 | 9   | -                              | 2                     | 6                    | -  | 1            | 6                               | .                       | 2                            | 0        | 1  | 4                 | 5                       | W  | 1 | 1  | 0                                   | - | 4 | 2 | - | 2 | 8 | . | 1 | 7 | 5 | 6 | 3 |  |
| Northing  |   |   |                                |                       |                      |  | Easting      |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 6   | 9 | 6   | 4                              | 9                     | 6                    | 8  | .            | 4                               | 0                       |                              |          |    |                   |                         |    | 1 | 8  | 6                                   | 4 | 1 | 4 | 7 | . | 1 | 2 |   |   |   |   |   |  |
| Units   |   | Survey Foot   |                                | (International Foot)  |                      |  | Meter        |                                 |                         | Coordinate Type              |          |    | (State Plane) UTM |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Zone  |   | Utah North  |                                | (Utah Central)        |                      |  | Utah South   |                                 |                         | Vertical Datum               |          |    | NGVD29 (NAVD88)   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ellipsoid Height  |   | M   |                                | 5481.181 FT           |                      |  | Geoid Height |                                 |                         | M                            |          |    | 5538.90 FT        |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Base Receiver   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type <b>TRIMBLE</b>   |   |   |                                | Model <b>4000 SSI</b> |                      |  |              | Serial Number                   |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Logging Interval <b>5 SEC.</b>  |   | Elevation Mask <b>13</b>                                  |                                | PDOP Mask <b>6</b>    |                      | Antenna Type <b>L1/L2 w/GROUND PLANE</b> |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Start Time  |   |   |                                | AM                    |                      | PM                                       |              | End Time                        |                         |                              |          |    |                   |                         | AM |   | PM |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Antenna Height  |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Session Beginning   |   | 1"  |                                | M                     |                      | 2 <sup>nd</sup>                          |              | M                               |                         | 3 <sup>rd</sup>              |          | M  |                   | Ave <b>4.206 Feet M</b> |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Session End   |   | 1"  |                                | M                     |                      | 2 <sup>nd</sup>                          |              | M                               |                         | 3 <sup>rd</sup>              |          | M  |                   | Ave <b>M</b>            |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Rover Receiver  |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type <b>TRIMBLE</b>   |   |   |                                | Model <b>5800</b>     |                      |  |              | Serial Number <b>4253117118</b> |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Approximate Distance From Base Station  |   |   |                                | Miles                 |                      | Antenna Type <b>5800 INTERNAL</b>        |              |                                 |                         | Antenna Height <b>6.6 FT</b> |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Station Observation   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Observation Type <b>(RTK)</b> FAST STATIC STATIC OTHER                          |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| First Observation   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Station Name (M1)   |   | 6   |                                | 0                     |                      | 0  |              | 7                               |                         | 0                            |          | 0  |                   | C                       |    | C |    | Description <b>NW corner Sec. 1</b> |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Occupation time   |   |   |                                | PDOP Best             |                      |  |              | RMS Best                        |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Number of Measurements <b>60</b>  |   |   |                                | PDOP Worst <b>3.5</b> |                      |  |              | RMS Worst <b>9.6</b>            |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 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 |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Monument and Markings   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type / Size   |   |   |                                |                       |                      |  |              |                                 |                         |                              |          |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Stone   |   |   | Pipe/Cap                       |                       |                      |  | Post         |                                 |                         |                              | Other    |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Size  |   |   | Size <b>2 ½ / 3 ¼ 1969 BLM</b> |                       |                      |  | Size         |                                 |                         |                              | Size     |    |                   |                         |    |   |    |                                     |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Material  |   |   | Material <b>steel / brass</b>  |                       |                      |  | 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 1610600700 CC

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-29-05

County Reference No. 1610600700CC

Type of Monument:  Section Corner  
 Bench Mark

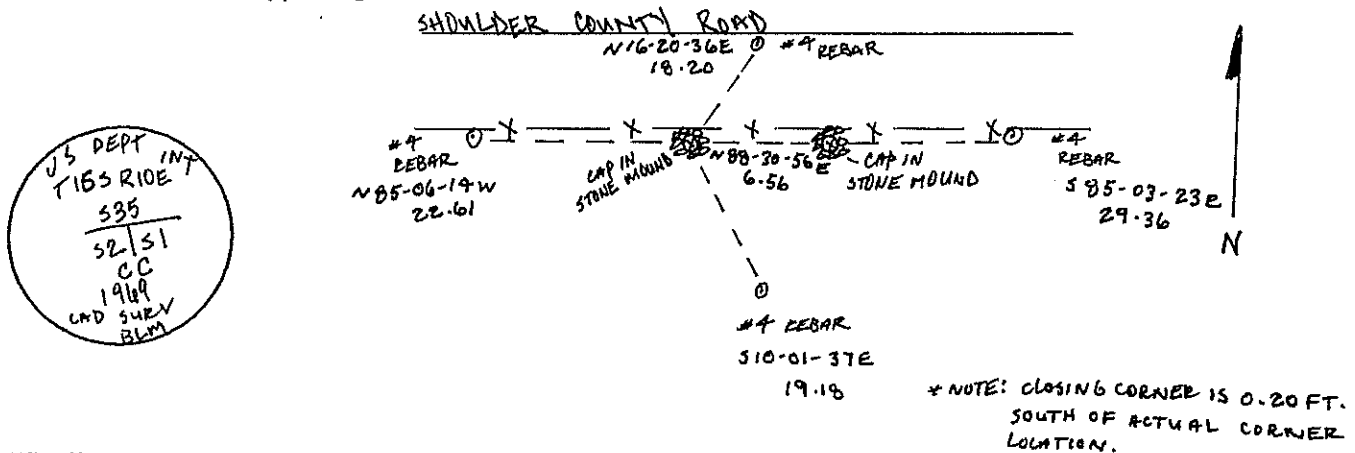
Quarter Corner  
 Other CLOSING CORNER

Your Description and Observation of Monument Found ( Be Specific ):

1969 BLM BRASS CAP IN A STONE MOUND, THE CONTROLLING CORNER FOR TOWNSHIP 15 SOUTH SETS TO THE EAST AS SHOWN BELOW.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET 4 #4 REBAR AS SHOWN BELOW

Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.

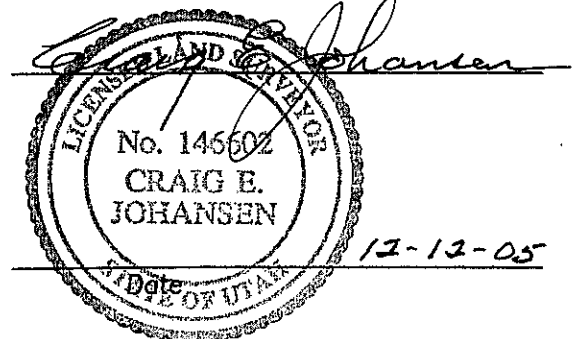
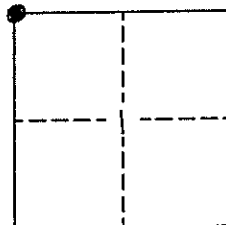
Address: 90 S. 100 E. Castle Dale, Utah 84513

Phone: (435) 381-2523

This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 1  
 Township: 16S  
 Range: 10E





## PLSS GPS Observation Sheet

| Project Name<br><b>SL T16S R10E</b><br>(Meridian Township Range) |   | Township<br>T 1 6   |   |                       | ½<br>(2)   | N<br>S | Range<br>1 0                      |   | ½<br>(2)                | E<br>W | Section  |                              | Meridian<br><b>SL</b> US                        |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|-----------------------|--|--------|-----------------------------------|---|-------------------------|--------|--|------------------------------|---|-------------------------|----------------------|--|----|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Contacts Name <b>Lee M. Swasey</b>                               |   | Source Agency<br><b>JOHANSEN &amp; TUTTLE ENGINEERING</b> |   |                       |  |        |                                   |   | Date<br><b>12/01/05</b> |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Contacts Phone <b>(435) 381-2523</b>                             |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Control Station  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Name<br><b>CP - 1</b>  |   | COR   |   |                       | HARN   |        |                                   | TRI   |                         |        | Type<br><input checked="" type="checkbox"/> Local Survey |                              |   | Accuracy<br>Order       |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| USGS Quad Name<br><b>OLSEN RESERVOIR UTAH</b>                    |   | Nad27   |   |                       | Nad83  |        |                                   | Datum<br><input checked="" type="checkbox"/> Nad83 (1994) |                         |        | WGS84  |                              | Local   |                         | State<br><b>UTAH</b> |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              | County<br><b>EMERY</b>                          |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Latitude   |   |   |   |                       |  |        | Longitude                         |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| N  | 3 | 9   | - | 2                     | 6  | -      | 1                                 | 6   | .                       | 2      | 0  | 1                            | 4   | 5                       | W                    | 1  | 1  | 0 | - | 4 | 2 | - | 2 | 8 | . | 1 | 7 | 5 | 6 | 3 |  |
| Northing   |   |   |   |                       |  |        | Easting                           |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 6  | 9 | 6   | 4 | 9                     | 6  | 8      | .                                 | 4   | 0                       |        |  |                              |   |                         | 1                    | 8  | 6  | 4 | 1 | 4 | 7 | . | 1 | 2 |   |   |   |   |   |   |  |
| Units  |   | Survey Foot   |   |                       | <input checked="" type="checkbox"/> International Foot |        |                                   | Meter   |                         |        | Coordinate Type  |                              | <input checked="" type="checkbox"/> State Plane |                         |                      | UTM  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Zone   |   | Utah North  |   |                       | <input checked="" type="checkbox"/> Utah Central       |        |                                   | Utah South  |                         |        | Vertical Datum   |                              | NGVD29  |                         |                      | <input checked="" type="checkbox"/> NAVD88 |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ellipsoid Height   |   | M   |   |                       | 5481.181 FT  |        |                                   | Geoid Height  |                         | M      |  |                              | 5538.90 FT                                      |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Base Receiver  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type <b>TRIMBLE</b>  |   |   |   | Model <b>4000 SSI</b> |  |        |                                   | Serial Number   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Logging Interval <b>5 SEC.</b>                                   |   | Elevation Mask <b>13</b>                                  |   |                       | PDOP Mask <b>6</b>                                     |        |                                   | Antenna Type <b>L1/L2 w/GROUND PLANE</b>                  |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Start Time   |   |   |   | AM                    |  | PM     |                                   | End Time  |                         |        |  |                              |   |                         | AM                   |  | PM |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Antenna Height   |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Session Beginning  |   | 1"  | M |                       |  | 2"     | M                                 |   |                         | 3"     | M  |                              |   | Ave <b>4.206 Feet M</b> |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Session End  |   | 1"  | M |                       |  | 2"     | M                                 |   |                         | 3"     | M  |                              |   | Ave <b>M</b>            |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Rover Receiver   |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type <b>TRIMBLE</b>  |   |   |   | Model <b>5800</b>     |  |        |                                   | Serial Number <b>4253117118</b>                           |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Approximate Distance From Base Station                           |   |   |   | Miles                 |  |        | Antenna Type <b>5800 INTERNAL</b> |   |                         |        |  | Antenna Height <b>6.6 FT</b> |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Station Observation  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Observation Type   |   | <input checked="" type="checkbox"/> RTK                   |   |                       | FAST STATIC  |        |                                   | STATIC  |                         |        | OTHER  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| First Observation  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Station Name (M1)  |   | 7 0 0 7 0 0   |   |                       | Description <b>NE corner Sec. 1</b>                    |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Occupation time  |   |   |   | PDOP Best             |  |        |                                   | RMS Best  |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Number of Measurements <b>60</b>                                 |   |   |   | PDOP Worst <b>3.4</b> |  |        |                                   | RMS Worst <b>14.2</b>                                     |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 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                   |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Monument and Markings  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Type / Size  |   |   |   |                       |  |        |                                   |   |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Stone  |   |   |   | Pipe/Cap              |  |        |                                   | Post  |                         |        |  | Other                        |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Size   |   | Size <b>2½ / 3¼ 1969 BLM</b>                              |   |                       | Size   |        |                                   | Size  |                         |        |  |                              |   |                         |                      |  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Material   |   | Material <b>steel / brass</b>                             |   |                       | 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 1610700700

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-01-05

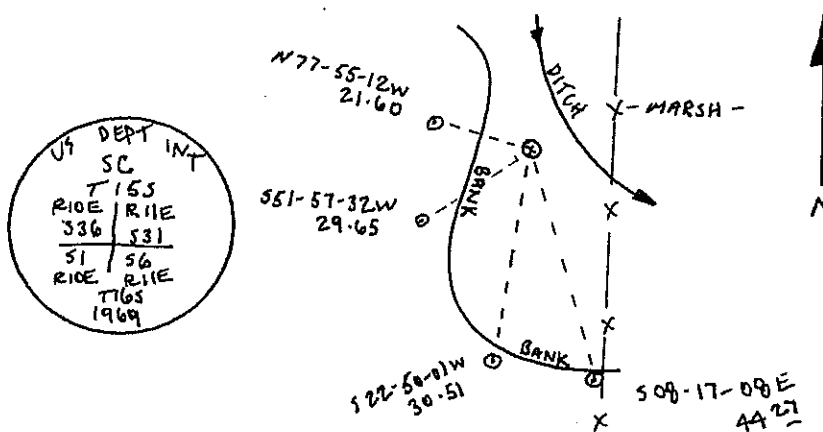
County Reference No. 1610700700

Type of Monument:                     Section Corner                     Quarter Corner  
     Bench Mark                     Other \_\_\_\_\_

Your Description and Observation of Monument Found ( Be Specific ):  
1969 BLM BRASS CAP FLUSH WITH GROUND LEVEL

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET 4 #5 REBAR #5 SHOWN BELOW

Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.  
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:  
 Section:   1    
 Township: 16S  
 Range: 10E

