# PLSS GPS Observation Sheet

| Project Name (Meridian Township Range) | Township | | ½ (2) | N S | Range | | ½ (2) | E W | Section | | | Meridian | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL T21S R15E | | 2 | 1 | | S | 1 | 5 | | E | | | | SL (circled) | US |

| Contacts Name Lee M. Swasey | Source Agency | Date |
|---|---|---|
| Contacts Phone (435) 381-2523 | JOHANSEN & TUTTLE ENGINEERING | 08/12/09 |

## Control Station

| | | | | | | |
|---|---|---|---|---|---|---|
| Name CP-5 | Type: COR | HARN | TRI | Other (circled) EMERY COUNTY | | Accuracy Order |
| USGS Quad Name JESSIES TWIST, UTAH | Datum: Nad27 | Nad83 | Nad83 (1994) (circled) | WGS84 | Local | State UTAH; County EMERY |

| Latitude | Longitude |
|---|---|
| N 38-58-14.32111 | W 110-17-00.2297 0 |

| Northing | Easting |
|---|---|
| 6796169.25 | 1986323.64 |

| | | | | | |
|---|---|---|---|---|---|
| Units | Survey Foot | International Foot (circled) | Meter | Coordinate Type | State Plane (circled) / UTM |
| Zone | Utah North | Utah Central (circled) | Utah South | Vertical Datum | NGVD29 / NAVD88 (circled) |
| Ellipsoid Height | M | 4272.73 FT | | Geoid Height | M 4338.39 FT |

## Base Receiver

| | | | |
|---|---|---|---|
| Type TRIMBLE | Model 4000 SSI | Serial Number 3508A09833 | |
| 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 | 1st M | 2nd M | 3rd M | Ave 4.76 FT |
| Session End | 1st M | 2nd M | 3rd M | Ave M |

## Rover Receiver

| | | |
|---|---|---|
| Type TRIMBLE | Model 5800 | Serial Number 4616113795 |
| Approximate Distance From Base Station 1.8 Miles | Antenna Type 5800 INTERNAL | Antenna Height 6.89FT |

## Station Observation

Observation Type: RTK (circled) FAST STATIC STATIC OTHER

**First Observation**

| | | |
|---|---|---|
| Station Name (M1) 4 0 0 5 0 0 | Description NE Cor. Sec. 16 | |
| Occupation time 00:01:03 | PDOP Best | RMS Best |
| Number of Measurements 60 | PDOP Worst 1.80 | RMS Worst 0.003M |

**Second Observation**

| | | |
|---|---|---|
| Station Name (M2) 2 7 8 | Description Check | |
| Occupation time 00:00:02 | PDOP Best | RMS Best |
| Number of Measurements 3 | PDOP Worst 1.49 | RMS Worst 0.003M |

Inverse Distance Between M1 and M2 0.04 FT | Alternate Base Station Used: Yes / No (circled)

## Monument and Markings

Type / Size

| Stone | Pipe/Cap | Post | Other |
|---|---|---|---|
| Size | Size 2inch/3 inch | Size | Size |
| Material | Material steel/brass | 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
Record Sheet 2115400500