

# PLSS GPS Observation Sheet

Project Name <b>SL T16S R11E</b> <small>(Meridian Township Range)</small>				Township		½ (2)	N S	Range		½ (2)	E W	Section			Meridian																	
				T	1	6	S	1	1	E				(SL)	US																	
Contacts Name Lee M. Swasey				Source Agency <b>JOHANSEN &amp; TUTTLE ENGINEERING</b>							Date <b>11/28/05</b>																					
Contacts Phone (435) 381-2523																																
<b>Control Station</b>																																
Name <b>ELM GPS 12</b>				Type <b>Other EMERY COUNTY</b>							Accuracy <b>Order</b>																					
				COR	HARN	TRI																										
USGS Quad Name <b>OLSEN RESERVOIR UTAH</b>				Datum <b>Nad83 (1994)</b>							State <b>UTAH</b>																					
				Nad27	Nad83			WGS84	Local	County <b>EMERY</b>																						
<b>Latitude</b>								<b>Longitude</b>																								
N	3	9	-	2	3	-	2	5	.	4	2	8	1	2	7	W	1	1	0	-	4	5	-	0	1	.	5	8	6	1	0	
<b>Northing</b>								<b>Easting</b>																								
6	9	4	7	5	8	7	.	6	3								1	8	5	2	2	5	7	.	0	6						
Units Survey Foot				International Foot				Meter					Coordinate Type State Plane UTM																			
Zone Utah North				Utah Central				Utah South					Vertical Datum NGVD29 NAVD88																			
Ellipsoid Height <b>1711.15 M</b>				FT					Geoid Height <b>M</b>				<b>5671.75 FT</b>																			
<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 4.678 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 <b>RTK</b> FAST STATIC STATIC OTHER																																
<b>First Observation</b>																																
Station Name (M1)		2	0	0	4	4	0	Description W 1/4 corner Sec. 17																								
Occupation time				PDOP Best							RMS Best																					
Number of Measurements 60				PDOP Worst 1.5							RMS Worst 9.7																					
<b>Second Observation</b>																																
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 2½ / 3¼ 1969 BLM							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 Monument Record Sheet 1611200440