

## PLSS GPS Observation Sheet

Project Name <b>SL T16S R10E</b> (Meridian Township Range)				Township		½ (2)	N S	Range		½ (2)	E W	Section			Meridian																
				T	1	6		S	1	0		E				(SL) US															
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING								Date 11/10/05																			
Contacts Phone (435) 381-2523																															
<b>Control Station</b>																															
Name ELM GPS 12				Type COR HARN TRI <u>Other</u> EMERY COUNTY								Accuracy Order																			
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <u>Nad83 (1994)</u> WGS84 Local								State UTAH County EMERY																			
Latitude								Longitude																							
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
Northing								Easting																							
6	9	4	7	5	8	7	.	6	3								1	8	5	2	2	5	7	.	0	6					
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		4.718 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	2	0	4	0	0	Description W 1/16 corner Sec. 14 / Sec. 23																							
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.6				RMS Worst 18.2																							
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 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 1610520400