

## 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 11/22/05																				
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		4.685 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	6	4	0	Description E 1/4 corner Sec. 3																								
Occupation time				PDOP Best						RMS Best																						
Number of Measurements 60				PDOP Worst 2.9						RMS Worst 10.6																						
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															
<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 1610500640