

## PLSS GPS Observation Sheet

Project Name <b>SL T15S R10E</b> <small>(Meridian Township Range)</small>				Township		½ (2)	N S	Range		½ (2)	E W	Section	Meridian																		
				T	1	5	S	1	0		E		(SL) US																		
Contacts Name <b>Lee M. Swasey</b>				Source Agency <b>JOHANSEN &amp; TUTTLE ENGINEERING</b>						Date <b>12/05/05</b>																					
Contacts Phone <b>(435) 381-2523</b>																															
<b>Control Station</b>																															
Name <b>CP-WEST</b>				Type COR HARN TRI <input checked="" type="radio"/> Other LOCAL SURVEY						Accuracy																					
USGS Quad Name <b>ELMO UTAH</b>				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local						Order																					
										State <b>UTAH</b>																					
										County <b>EMERY</b>																					
<b>Latitude</b>						<b>Longitude</b>																									
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	
<b>Northing</b>													<b>Easting</b>																		
6	9	7	6	1	1	2	.	8	0						1	8	4	1	5	4	5	.	4	0							
Units Survey Foot <input type="radio"/> International Foot <input checked="" type="radio"/> Meter				Coordinate Type <input type="radio"/> State Plane <input checked="" type="radio"/> UTM																											
Zone Utah North <input type="radio"/> Utah Central <input checked="" type="radio"/> Utah South				Vertical Datum NGVD29 <input type="radio"/> NAVD88 <input checked="" type="radio"/>																											
Ellipsoid Height <b>1711.15 M</b>				Geoid Height <b>M 5671.75 FT</b>																											
<b>Base Receiver</b>																															
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																			
<b>Antenna Height</b>																															
Session Beginning				1 <sup>st</sup> M 2 <sup>nd</sup> M 3 <sup>rd</sup> M				Ave <b>4.482 Feet M</b>																							
Session End				1 <sup>st</sup> M 2 <sup>nd</sup> M 3 <sup>rd</sup> M				Ave <b>M</b>																							
<b>Rover Receiver</b>																															
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>																			
<b>Station Observation</b>																															
Observation Type <input checked="" type="radio"/> RTK <input type="radio"/> FAST STATIC <input type="radio"/> STATIC <input type="radio"/> OTHER																															
<b>First Observation</b>																															
Station Name (M1)				3 4 0 1 0 0				Description <b>S 1/4 corner Sec. 33</b>																							
Occupation time				PDOP Best				RMS Best																							
Number of Measurements <b>60</b>				PDOP Worst <b>1.1</b>				RMS Worst <b>15.8</b>																							
<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>																															
<b>Type / Size</b>																															
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 1510340100

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-9-05

County Reference No. 1510340100

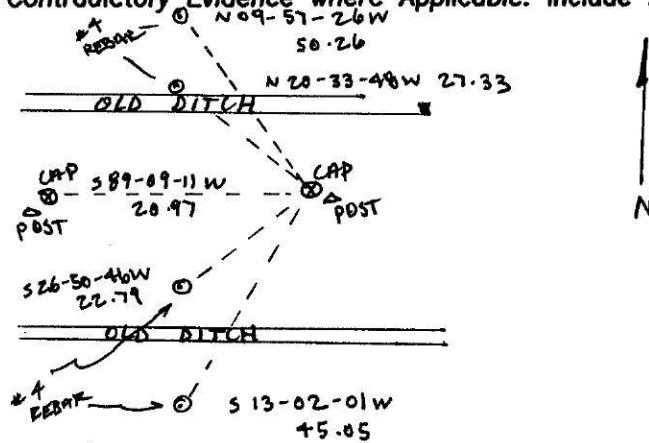
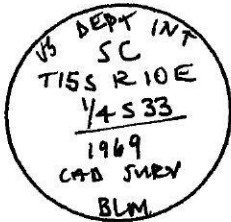
Type of Monument: \_\_\_\_\_ Section Corner  
 \_\_\_\_\_ Bench Mark

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

Your Description and Observation of Monument Found ( Be Specific ):  
 1969 BLM BRASS CAP 2" ABOVE GROUND LEVEL WITH A STEEL POST DRIVEN ALONGSIDE. A 1969 BLM BRASS CAP CONTROLLING TOWNSHIP 16 SOUTH SECTION 4 SETS TO THE WEST 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:**

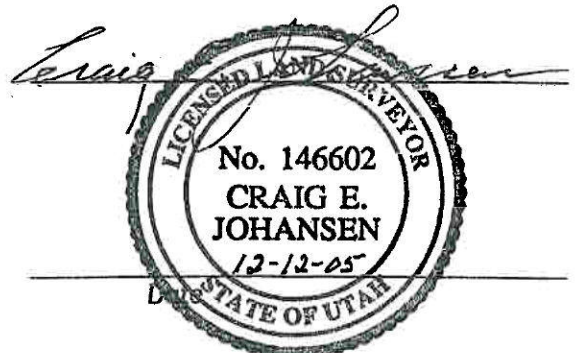
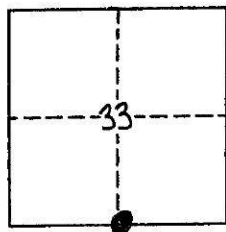
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 33  
 Township: 15S  
 Range: 10E



## PLSS GPS Observation Sheet

Project Name <b>SL T15S R10E</b> <small>(Meridian Township Range)</small>				Township		1/2 (2) N S		Range		1/2 (2) E W		Section		Meridian	
				T		1		5		S		1		0	
Contacts Name <b>Lee M. Swasey</b>				Source Agency <b>JOHANSEN &amp; TUTTLE ENGINEERING</b>						Date <b>12/05/05</b>					
Contacts Phone <b>(435) 381-2523</b>															
<b>Control Station</b>															
Name <b>CP-WEST</b>				Type COR HARN TRI <input checked="" type="radio"/> Other LOCAL SURVEY								Accuracy Order			
USGS Quad Name <b>ELMO UTAH</b>				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local								State <b>UTAH</b>			
												County <b>EMERY</b>			
<b>Latitude</b>								<b>Longitude</b>							
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							
<b>Northing</b>								<b>Easting</b>							
6 9 7 6 1 1 2 . 8 0								1 8 4 1 5 4 5 . 4 0							
Units Survey Foot <input type="radio"/> International Foot <input checked="" type="radio"/> Meter				Coordinate Type State Plane <input checked="" type="radio"/> UTM											
Zone Utah North <input type="radio"/> Utah Central <input checked="" type="radio"/> Utah South				Vertical Datum NGVD29 <input type="radio"/> NAVD88 <input checked="" type="radio"/>											
Ellipsoid Height <b>1711.15 M</b>				Geoid Height <b>M</b>				<b>5671.75 FT</b>							
<b>Base Receiver</b>															
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			
<b>Antenna Height</b>															
Session Beginning				1" M				2" M				3" M			
Session End				1" M				2" M				3" M			
								Ave <b>4.482 Feet M</b>							
												Ave <b>M</b>			
<b>Rover Receiver</b>															
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>			
<b>Station Observation</b>															
Observation Type <input checked="" type="radio"/> RTK <input type="radio"/> FAST STATIC <input type="radio"/> STATIC <input type="radio"/> OTHER															
<b>First Observation</b>															
Station Name (M1)				4 0 0 1 0 0				Description <b>SW corner Sec. 34</b>							
Occupation time				PDOP Best				RMS Best							
Number of Measurements <b>60</b>				PDOP Worst <b>1.4</b>				RMS Worst <b>13.5</b>							
<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>															
<b>Type / Size</b>															
Stone				Pipe/Cap				Post				Other			
Size				Size <b>2 1/2 / 3 1/4 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 1510400100

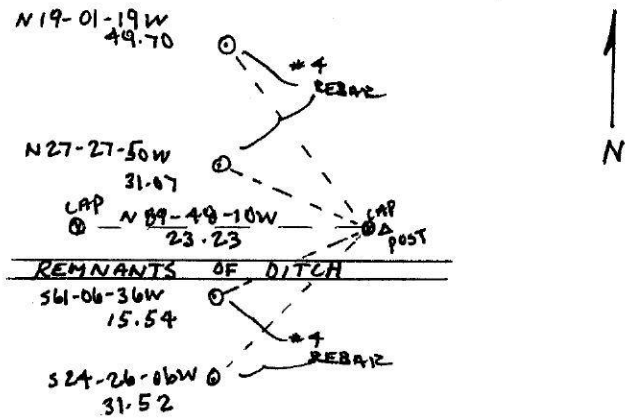
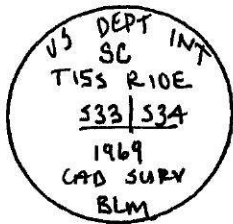
# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-9-05 County Reference No. 1510400100  
 Type of Monument:  Section Corner  Quarter Corner  
 Bench Mark  Other \_\_\_\_\_

Your Description and Observation of Monument Found ( Be Specific ):  
 1969 BLM BRASS CAP WITH A STEEL FENCE POST DRIVEN ALONGSIDE  
 A 1969 BLM BRASS CAP CONTROLLING TOWNSHIP 16 SOUTH SECTION 3  
 SETS TO THE WEST 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.  
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Section: 33  
 Township: 15S  
 Range: 10E

