

# UTAH LAND SURVEY MONUMENT RECORD

County EMERY

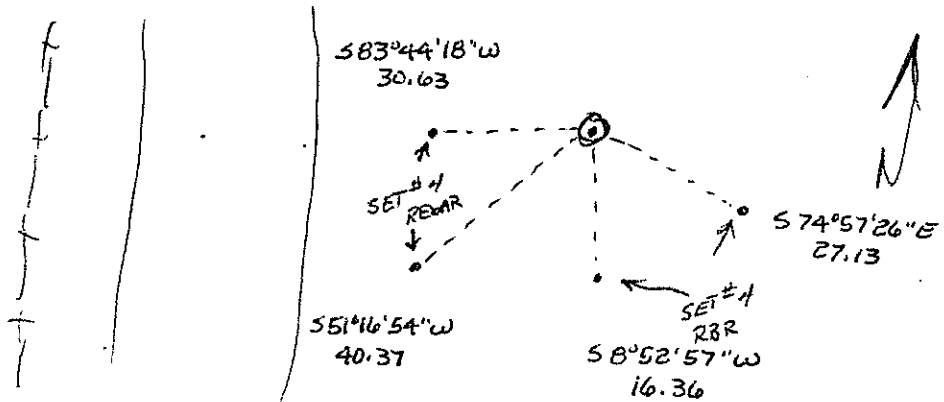
County Reference No. 1610  
~~1216 200 600~~

1. Date of Field Work: 12-19-00
2. Type of Monument:  Section Corner     Quarter Corner  
(Check one)                       Bench Mark                       Other

3. Your Description and Observation of Monument Found (Be Specific);  
FOUND STD BLM CAP SET 40' ± EAST OF EAST SHO OF CO. RD.

4. Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point:  
SET #1 REBAR W-SW-S-SE OF CAP

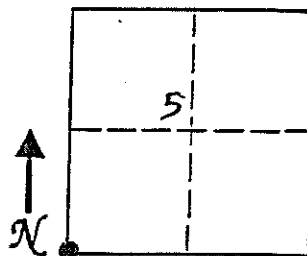
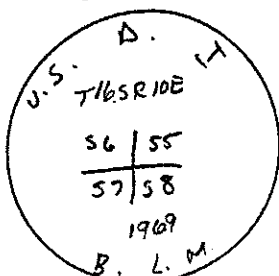
5. Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



6. Certification:  
Firm Name and/or Surveyor: JOHANSEN & TUTTLE ENG Phone: 381-2523  
Address: 90 S 100 E CASTLE DALE UTAH

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.

7. Location Diagram:  
8. Section: 5  
9. Township: 10S  
10. Range: 10E



Signature: \_\_\_\_\_  
Surveyor's Seal (over signature) **CRAIG E. JOHANSEN**  
Date: 11-30-01

11. Monument Inscription:

12. Diagram Coordinate from Master Index for Townships: \_\_\_\_\_

Report one monument per form.  
Type or use permanent black ink.  
Fill in all items.

## PLSS GPS Observation Sheet

<b>Project Name</b> SL T16S R10E (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 Contacts Phone (435) 381-2523				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 12/05/05																				
<b>Control Station</b>																														
Name CP-WEST USGS Quad Name ELMO UTAH				Type COR HARN TRI <input checked="" type="radio"/> Other LOCAL SURVEY						Accuracy Order																				
				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																				
Latitude							Longitude																							
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
Northing							Easting																							
6	9	7	6	1	1	2	.	8	0						1	8	4	1	5	4	5	.	4	0						
Units				Survey Foot		<input checked="" type="radio"/> International Foot		Meter		Coordinate Type				<input checked="" type="radio"/> State Plane		UTM														
Zone				Utah North		<input checked="" type="radio"/> Utah Central		Utah South		Vertical Datum				NGVD29		<input checked="" type="radio"/> NAVD88														
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"		M		2"		M		3"		M		Ave 4.482 Feet M														
Session End				1"		M		2"		M		3"		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				<input checked="" type="radio"/> RTK		FAST STATIC		STATIC		OTHER																				
First Observation																														
Station Name (M1)				2		4		0		7		0		0		Description N 1/4 corner Sec. 5														
Occupation time				PDOP Best						RMS Best																				
Number of Measurements 60				PDOP Worst 1.1						RMS Worst 9.6																				
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 1610240700

# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-9-05

County Reference No. 1610240700

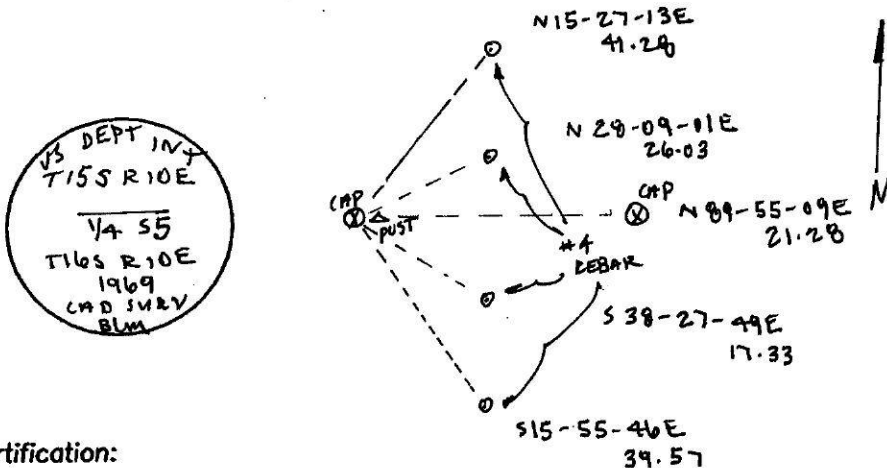
Type of Monument:            Section Corner  
           Bench Mark

  ✓   Quarter Corner  
           Other                                   

Your Description and Observation of Monument Found ( Be Specific ):  
 1969 BLM BRASS CAP 12" ABOVE GROUND LEVEL WITH A STEEL POST DRIVEN ALONGSIDE  
 A 1969 BLM BRASS CAP CONTROLLING TOWNSHIP 15 SOUTH SECTION 32 SETS TO  
 THE EAST 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

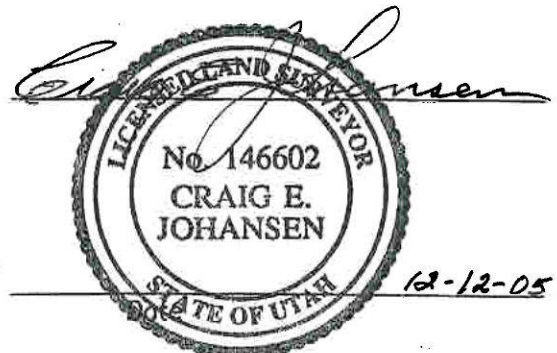
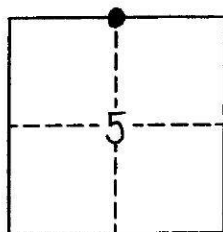
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Location Diagram:

Section: 5

Township: 16S

Range: 10E



## PLSS GPS Observation Sheet

Project Name <b>SL T16S R10E</b> <small>(Meridian Township Range)</small>				Township		Range		Section		Meridian	
				T 1 6		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>											
Control Station											
Name <b>CP-WEST</b>				Type <input type="checkbox"/> COR <input type="checkbox"/> HARN <input type="checkbox"/> TRI <input checked="" type="checkbox"/> Other LOCAL SURVEY				Accuracy Order			
USGS Quad Name <b>ELMO UTAH</b>				Datum <input type="checkbox"/> Nad27 <input type="checkbox"/> Nad83 <input checked="" type="checkbox"/> Nad83 (1994) <input type="checkbox"/> WGS84 <input type="checkbox"/> Local				State <b>UTAH</b> County <b>EMERY</b>			
Latitude						Longitude					
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					
Northing						Easting					
6 9 7 6 1 1 2 . 8 0						1 8 4 1 5 4 5 . 4 0					
Units Survey Foot <input type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter				Coordinate Type <input type="checkbox"/> State Plane <input type="checkbox"/> UTM							
Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South				Vertical Datum <input type="checkbox"/> NGVD29 <input checked="" type="checkbox"/> NAVD88							
Ellipsoid Height <b>1711.15 M</b>				Geoid Height <b>M 5671.75 FT</b>							
Base Receiver											
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 <input type="checkbox"/> AM <input type="checkbox"/> PM				End Time <input type="checkbox"/> AM <input type="checkbox"/> PM							
Antenna Height											
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>			
Rover Receiver											
Type <b>TRIMBLE</b>				Model <b>5800</b>				Serial Number <b>4253117118</b>			
Approximate Distance From Base Station <b>Miles</b>				Antenna Type <b>5800 INTERNAL</b>				Antenna Height <b>6.6 FT</b>			
Station Observation											
Observation Type <input checked="" type="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> OTHER											
First Observation											
Station Name (M1) <b>2 0 0 7 0 0</b>				Description <b>NW corner Sec. 5</b>							
Occupation time				PDOP Best				RMS Best			
Number of Measurements <b>60</b>				PDOP Worst <b>5.0</b>				RMS Worst <b>5.0</b>			
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 <b>FT</b>				Alternate Base Station Used <input type="checkbox"/> Yes <input type="checkbox"/> No							
Monument and Markings											
Type / Size											
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 1610200700



# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-7-05

County Reference No. 1610200700

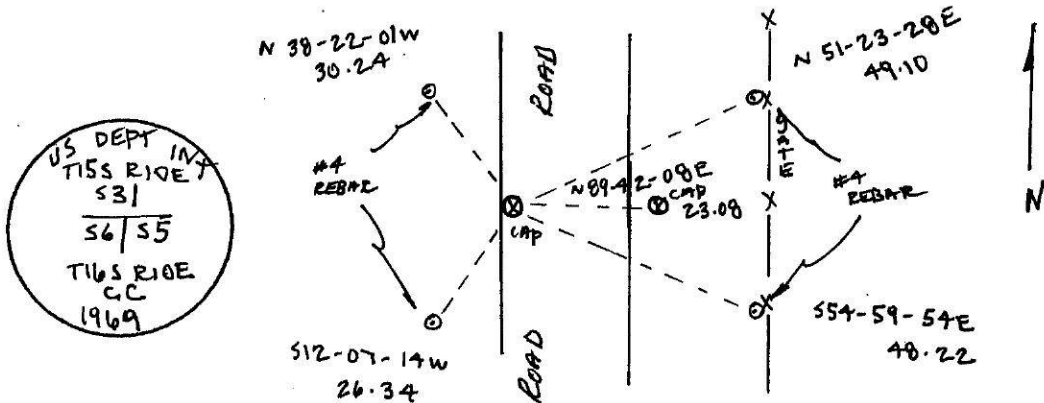
Type of Monument:  Section Corner  
 Bench Mark

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

Your Description and Observation of Monument Found ( Be Specific ):  
 1969 BLM BRASS CAP LAYING ALONGSIDE ROAD. A 1969 BLM BRASS CAP  
 CONTROLLING TOWNSHIP 15 SOUTH SECTION 31 SETS ON THE EAST SIDE OF  
 ROAD AS SHOWN BELOW.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the  
 Location of this Point: RE-SET BRASS CAP 1" BELOW ROAD LEVEL.  
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.



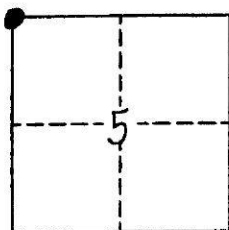
Certification:

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: 5  
 Township: 16S  
 Range: 10E



*Craig Johansen*  
 LICENSED LAND SURVEYOR  
 No. 146602  
 CRAIG E. JOHANSEN  
 STATE OF UTAH  
 12-12-05  
 Date

## PLSS GPS Observation Sheet

Project Name <b>SL T16S R10E</b> <small>(Meridian Township Range)</small>			Township T 1 6			1/2 (2) N S		Range 1 0		1/2 (2) E W		Section		Meridian <input checked="" type="radio"/> SL <input type="radio"/> 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>																																
Control Station																																
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>																							
Latitude								Longitude																								
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		
Northing								Easting																								
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 type="radio"/> UTM <input checked="" type="radio"/>			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>																	
Base Receiver																																
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																							
Antenna Height																																
Session Beginning			1" M			2" M			3" M			Ave <b>4.482 Feet M</b>																				
Session End			1" M			2" M			3" M			Ave <b>M</b>																				
Rover Receiver																																
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>																							
Station Observation																																
Observation Type <input checked="" type="radio"/> RTK <input type="radio"/> FAST STATIC <input type="radio"/> STATIC <input type="radio"/> OTHER																																
First Observation																																
Station Name (M1)			2 0 0 6 4 0			Description <b>W 1/4 corner Sec. 5</b>																										
Occupation time			PDOP Best			RMS Best																										
Number of Measurements <b>60</b>			PDOP Worst <b>5.0</b>			RMS Worst <b>5.0</b>																										
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																							
Monument and Markings																																
Type / Size																																
Stone			Pipe/Cap			Post			Other																							
Size			Size <b>2 1/2 / 3 1/4 2005 ECS</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 1610200640



# EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-7-05

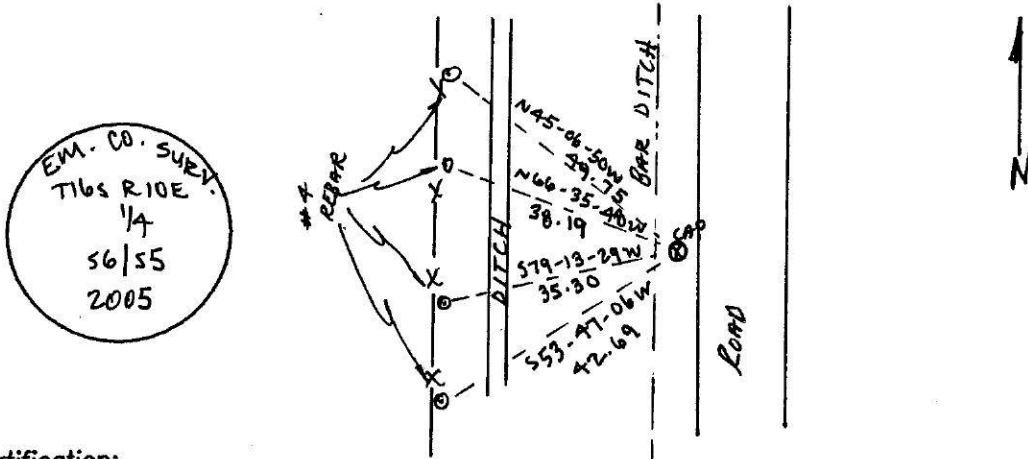
County Reference No. 16102001640

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

Your Description and Observation of Monument Found ( Be Specific ):  
 NO EVIDENCE OF MONUMENT FOUND

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET MONUMENT WITH 4 #4 REBAR AS SHOWN BELOW. DROVE STEEL POST ALONGSIDE MONUMENT. MONUMENT IS BURIED 4" BELOW GROUND LEVEL.

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

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Location Diagram:  
 Section: 5  
 Township: 16S  
 Range: 10E

