

UTAH LAND SURVEY MONUMENT RECORD

County EMERY

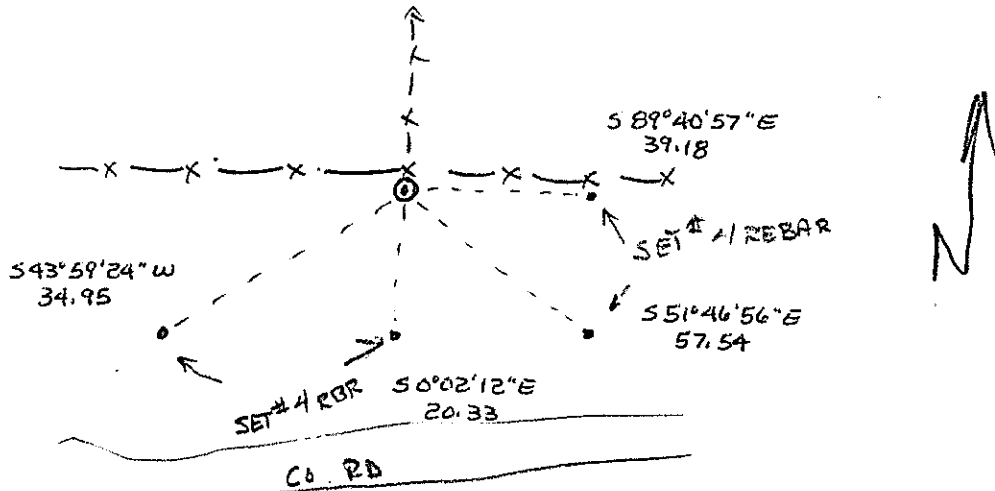
1610
County Reference No. 14-163005 00

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

3. Your Description and Observation of Monument Found (Be Specific):
FOUND STD BLM CAP AT A EAST-WEST-NORTH FENCE CORNER

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



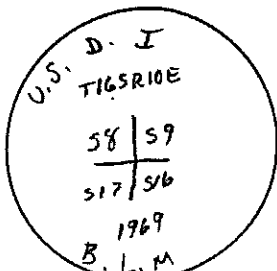
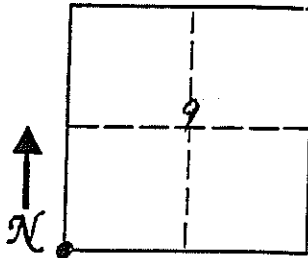
6. Certification:

Firm Name and/or Surveyor: JOHANSEN & TUTTLE ENG Phone: 381-2523
 Address: 905 100E 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.

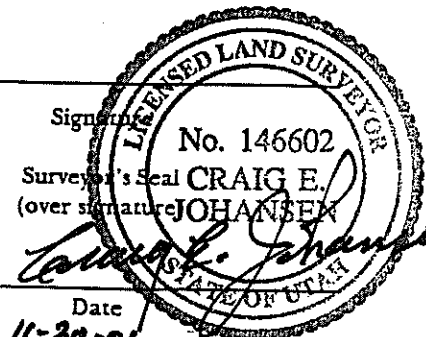
7. Location Diagram:

8. Section: 9
 9. Township: 16S
 10. Range: 10E



11. Monument Inscription:

12. Diagram Coordinate from Master Index for Townships: _____



Date 11-30-01

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

PLSS GPS Observation Sheet

Project Name SL T16S R10E <small>(Meridian Township Range)</small>		Township T 1 6		Range S 1 0		Section SL		Meridian US	
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING				Date 11/17/05			
Contacts Phone (435) 381-2523									
Control Station									
Name ELM GPS 12		Type Other EMERY COUNTY				Accuracy Order			
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad83 (1994)				State UTAH			
		Nad27		Nad83		WGS84		Local	
County EMERY									
Latitude N 3 9 - 2 3 - 2 5 . 4 2 8 1 2 7					Longitude W 1 1 0 - 4 5 - 0 1 . 5 8 6 1 0				
Northing 6 9 4 7 5 8 7 . 6 3					Easting 1 8 5 2 2 5 7 . 0 6				
Units Survey Foot		<input checked="" type="radio"/> International Foot		<input type="radio"/> Meter		Coordinate Type <input checked="" type="radio"/> State Plane		<input type="radio"/> UTM	
Zone Utah North		<input checked="" type="radio"/> Utah Central		<input type="radio"/> Utah South		Vertical Datum NGVD29		<input checked="" type="radio"/> NAVD88	
Ellipsoid Height 1711.15 M		FT		Geoid Height M		5671.75 FT			
Base Receiver									
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	
Antenna Height									
Session Beginning		1 st		M		2 nd		M	
Session End		1 st		M		2 nd		M	
								Ave 4.547 Feet M	
								Ave M	
Rover Receiver									
Type TRIMBLE		Model 5800			Serial Number 4253117118				
Approximate Distance From Base Station		Miles		Antenna Type 5800 INTERNAL			Antenna Height 6.6 FT		
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)		3 0 0 6 0 0		Description NW corner Sec. 9					
Occupation time		PDOP Best				RMS Best			
Number of Measurements 60		PDOP Worst 1.8				RMS Worst 15.6			
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
Monument and Markings									
Type / Size									
Stone		Pipe/Cap			Post			Other	
Size		Size 2 1/2 / 3 1/4			1969 BLM			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 1610300600

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-17-05

County Reference No. 1610.300600

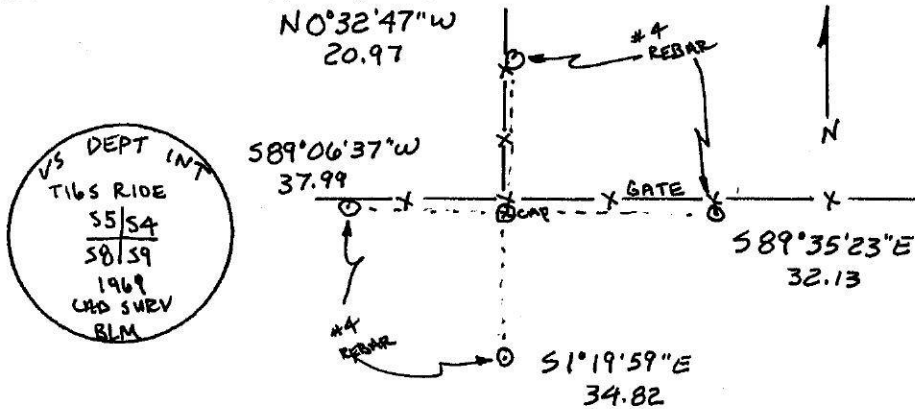
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 12" ABOVE GROUND LEVEL

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.

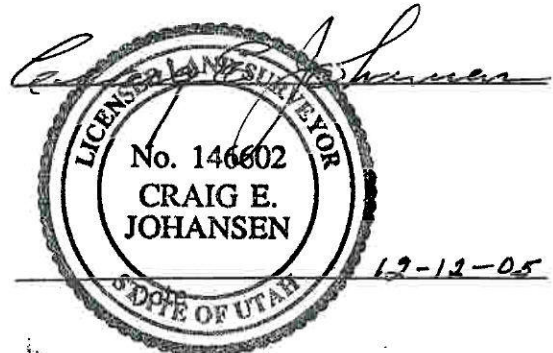
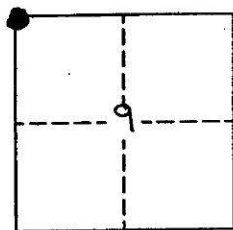


Certification:

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: 9
 Township: 16S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T16S R10E <small>(Meridian Township Range)</small>				Township T 1 6		Range S 1 0		Section SL US		Meridian	
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING				Date 11/17/05			
Contacts Phone (435) 381-2523											
Control Station											
Name ELM GPS 12				Type Other EMERY COUNTY				Accuracy Order			
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad83 (1994)				State UTAH			
				WGS84				Local 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 <input type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter <input type="checkbox"/>				Coordinate Type State Plane <input type="checkbox"/> UTM <input type="checkbox"/>							
Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South <input type="checkbox"/>				Vertical Datum NGVD29 <input type="checkbox"/> NAVD88 <input checked="" type="checkbox"/>							
Ellipsoid Height 1711.15 M				Geoid Height M 5671.75 FT							
Base Receiver											
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		4.547 Feet M	
Session End		1" M		2" M		3" M		Ave		M	
Rover Receiver											
Type TRIMBLE				Model 5800				Serial Number 4253117118			
Approximate Distance From Base Station Miles				Antenna Type 5800 INTERNAL				Antenna Height 6.6 FT			
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) 3 0 0 5 4 0 W C				Description Witness Corner to W 1/4 corner Sec. 9							
Occupation time				PDOP Best				RMS Best			
Number of Measurements 60				PDOP Worst 1.4				RMS Worst 33.2			
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			
Monument and Markings											
Type / Size											
Stone			Pipe/Cap			Post			Other		
Size			Size 2 1/2 / 3 1/4 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 1610300540 WC

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-17-05

County Reference No. 161D300540 WC

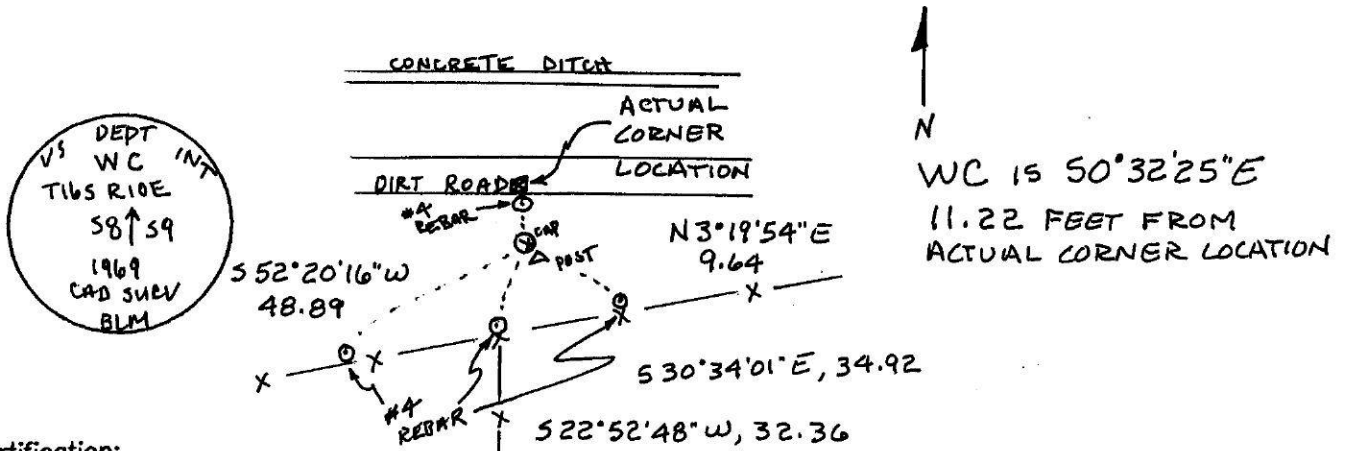
Type of Monument: Section Corner Quarter Corner
 Bench Mark Other WITNESS CORNER

Your Description and Observation of Monument Found (Be Specific):

1969 BLM BRASS CAP 4" ABOVE GROUNDLEVEL WITH A STEEL FENCEPOST DRIVEN ALONGSIDE

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:

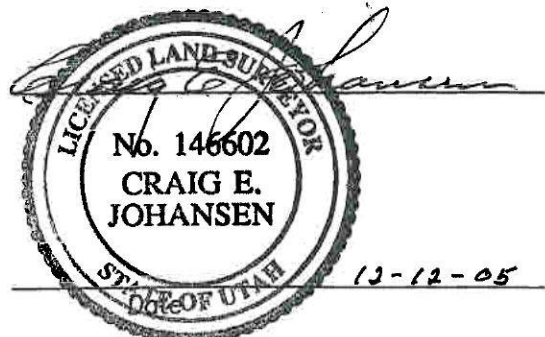
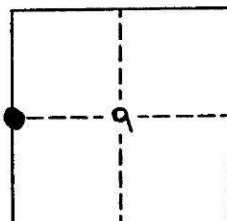
Firm name and/or Surveyor: Johansen & Tuttle Eng.

Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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Location Diagram:

Section: 9
 Township: 16S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T16S R10E (Meridian Township Range)		Township T 1 6		½ (2)	N S	Range 1 0		½ (2)	E W	Section	Meridian (SL) US																					
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/17/05																								
Contacts Phone (435) 381-2523																																
Control Station																																
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 State Plane <u>UTM</u>		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																		
Base Receiver																																
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		4,547 Feet M																						
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Rover Receiver																																
Type TRIMBLE		Model 5800				Serial Number 4253117118																										
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Observation Type <u>RTK</u> FAST STATIC STATIC OTHER																																
First Observation																																
Station Name (M1)		3 4 0 6 0 0		Description N 1/4 corner Sec. 9																												
Occupation time		PDOP Best				RMS Best																										
Number of Measurements 60		PDOP Worst 1.0				RMS Worst 14.8																										
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 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 1610340600

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-17-05

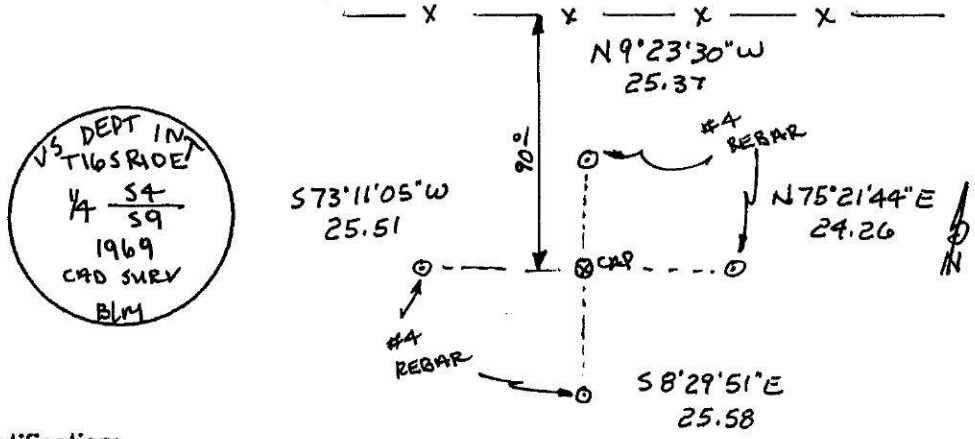
County Reference No. 1610340600

Type of Monument: Section Corner Quarter Corner
 Bench Mark Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 3" ABOVE GROUND LEVEL

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.



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 Section: 9
 Township: 16S
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