

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)				Township T 1 5			$\frac{1}{2}$ (2)	N S	Range 1 0		$\frac{1}{2}$ (2)	E W	Section		Meridian (SL) US																	
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 12/05/05																						
Contacts Phone (435) 381-2523																																
Control Station																																
Name CP-WEST				Type COR HARN TRI <input checked="" type="radio"/> Other LOCAL SURVEY						Accuracy Order																						
USGS Quad Name ELMO UTAH				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 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				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 4.482 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="radio"/> RTK FAST STATIC STATIC OTHER																																
First Observation																																
Station Name (M1)				3 0 0 1 0 0				Description SW corner Sec. 33																								
Occupation time				PDOP Best				RMS Best																								
Number of Measurements 60				PDOP Worst 1.8				RMS Worst 11.5																								
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 / 3/4 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 1510300100

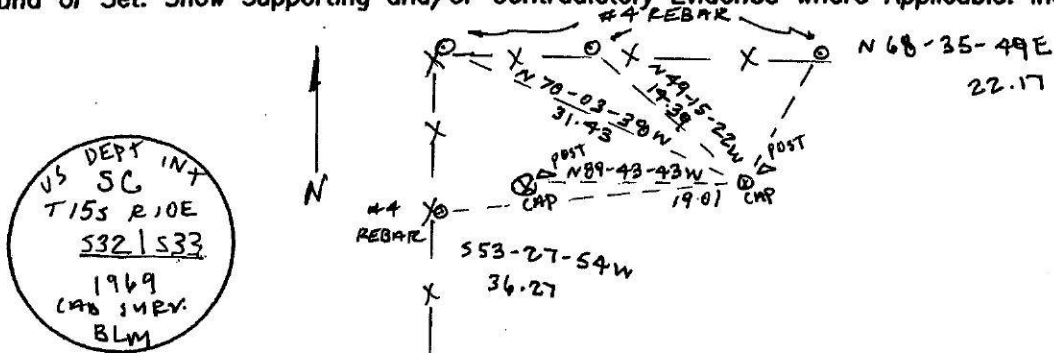
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-9-05 County Reference No. 1510300100
 Type of Monument: Section Corner Quarter Corner
 Bench Mark Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 8" 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.

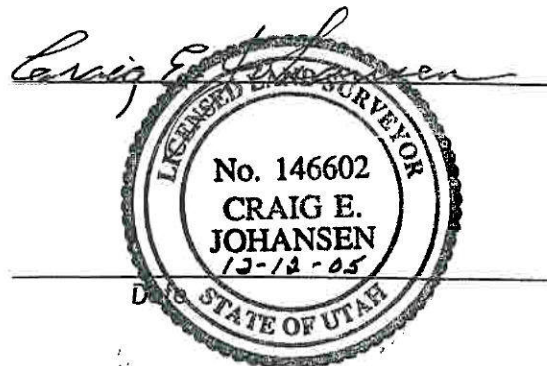
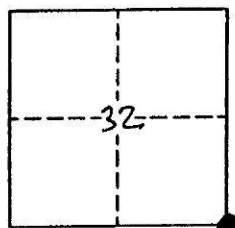


Certification:

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: 32
 Township: 15S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T15S R10E <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 Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 12/05/05																				
Contacts Phone (435) 381-2523																														
Control Station																														
Name CP-WEST				Type						Accuracy																				
				COR	HARN	TRI	(Other) LOCAL SURVEY			Order																				
USGS Quad Name ELMO UTAH				Datum						State UTAH																				
				Nad27	Nad83	(Nad83 1994)		WGS84	Local		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	(International Foot)		Meter		Coordinate Type				(State Plane)		UTM															
Zone				Utah North	(Utah Central)		Utah South		Vertical Datum				NGVD29		(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																								
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Antenna Height																														
Session Beginning		1 st		M		2 nd		M		3 rd		M		Ave 4.482 Feet M																
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Observation Type (RTK) FAST STATIC STATIC OTHER																														
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Station Name (M1)		2		0		0		1		0		0		Description SW corner Sec. 32																
Occupation time				PDOP Best				RMS Best																						
Number of Measurements 60				PDOP Worst 2.5				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																		
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 1510200100

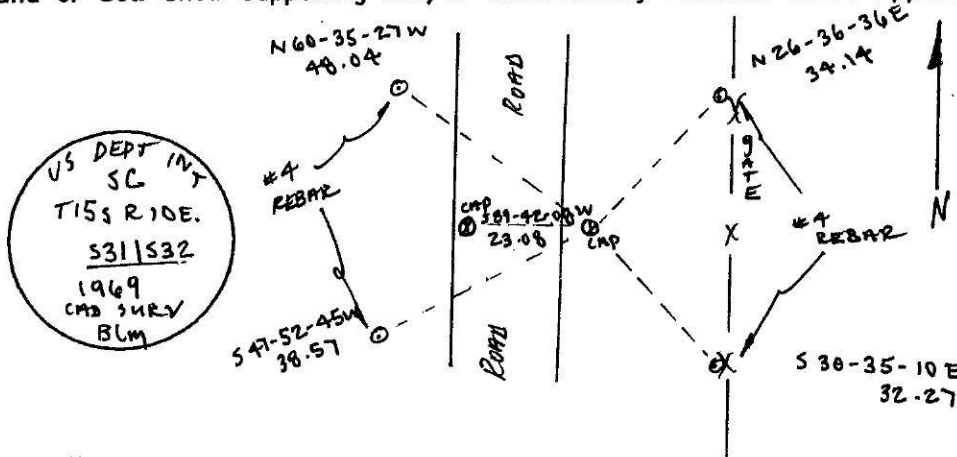
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-7-05 County Reference No. 151D200100
 Type of Monument: Section Corner Quarter Corner
 Bench Mark Other _____

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP FLUSH WITH GROUND LEVEL. A 1969 BLM BRASS CAP CONTROLLING
TOWNSHIP 16 SOUTH SECTION 5 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.

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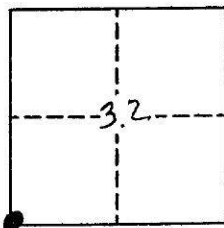


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Location Diagram:
 Section: 32
 Township: 15S
 Range: 10E



Craig E. Johansen

 Date: _____

