

PLSS GPS Observation Sheet

Project Name SL T15S R10E <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				(SL)	US																	
Contacts Name Lee M. Swasey				Source Agency						Date																						
Contacts Phone (435) 381-2523				JOHANSEN & TUTTLE ENGINEERING						11/11/05																						
Control Station																																
Name ELM GPS 12				Type								Accuracy																				
				COR	HARN	TRI	Other EMERY COUNTY					Order																				
USGS Quad Name				Datum								State																				
OLSEN RESERVOIR UTAH				Nad27	Nad83	Nad83 (1994)		WGS84	Local	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		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																								
Start Time				AM		PM		End Time				AM		PM																		
Antenna Height																																
Session Beginning				1 st		M		2 nd		M		3 rd		M		Ave 4.718 Feet M																
Session End				1 st		M		2 nd		M		3 rd		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				(RTK)		FAST STATIC		STATIC		OTHER																						
First Observation																																
Station Name (M1)				4		4		0		1		0		0		Description S 1/4 corner Sec. 34																
Occupation time				PDOP Best				RMS Best																								
Number of Measurements 60				PDOP Worst 2.6				RMS Worst 13.4																								
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 1510440100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-11-05

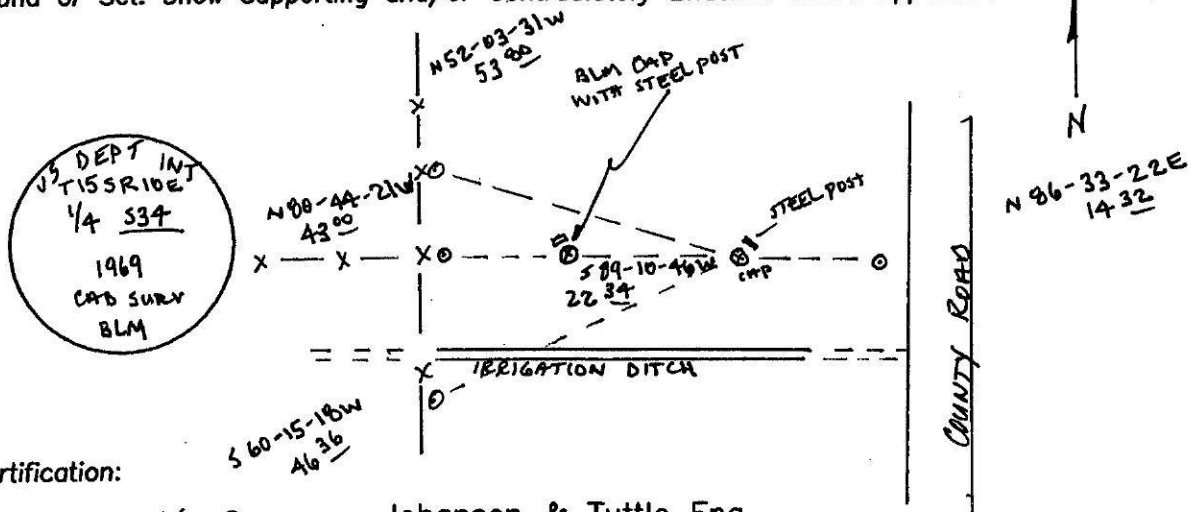
County Reference No. 1510440100

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

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 4" ABOVE GROUND LEVEL WITH A STEEL FENCEPOST DRIVEN ALONGSIDE
 ANOTHER BLM BRASS CAP FOR TOWNSHIP 16 SOUTH SECTION 3 SETS WEST AS SHOWN

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.

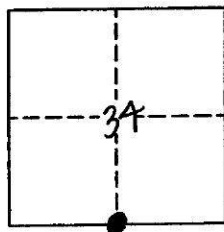


Certification:

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: 34
 Township: 15S
 Range: 10E



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