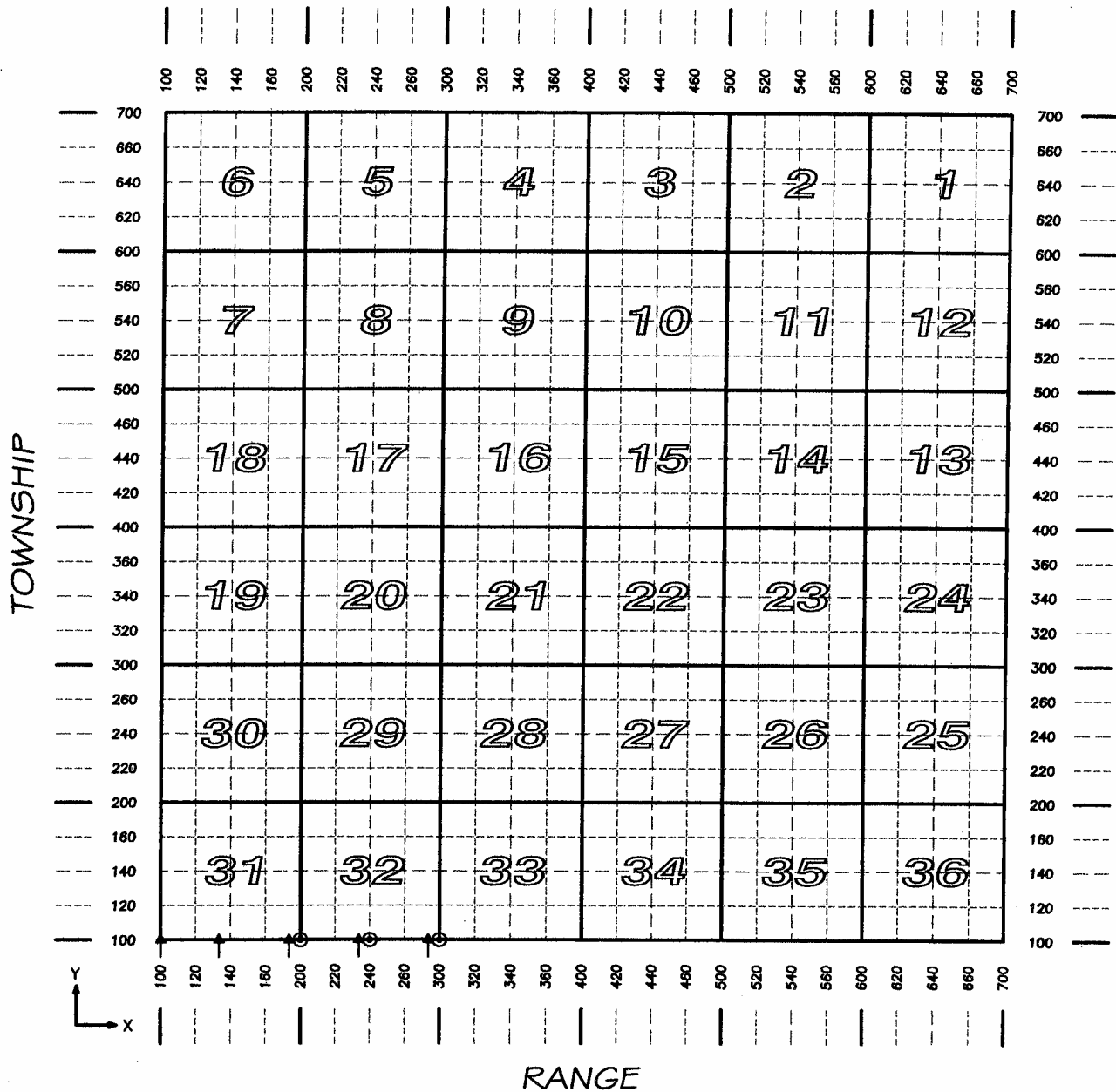


Emery County 2000 Point ID System



T R X Y
 15 11 44 0400 = S 1/4, Sec. 15, T 15 S, R 11 E.

15 11

T. 15 S. R. 11 E. SLM

⊙ MONUMENT RECORD FILED

▲ SEE ADJOINING SHEET

EMERY COUNTY SECTION CORNERS							1511
NAD 83 (1994) State Plane Coordinate Data, Central Zone							2000 id system
TOWNSHIP 15 SOUTH, RANGE 11 EAST							
SECTION CODE	INTERNATIONAL FEET			POSITION			
	NORTHING	EASTING	ELEV.	LATITUDE	LONGITUDE		
1511200100	6976445.93	1860277.16	5443.05	N 39-28-09.9773	W 110-43-16.2291		
1511240100	6976467.66	1862937.37	5438.77	N 39-28-09.9617	W 110-42-42.3036		
1511300100	6976490.10	1865599.20	5433.40	N 39-28-09.9503	W 110-42-08.3573		

PLSS GPS Observation Sheet

Project Name SL T15S R11E (Meridian Township Range)				Township T 1 5		Range S 1 1		Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING				Date 12/01/05																						
Contacts Phone (435) 381-2523																														
Control Station																														
Name CP - 1				Type COR HARN TRI <input checked="" type="radio"/> Other Local Survey				Accuracy																						
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local				Order State UTAH County EMERY																						
Latitude						Longitude																								
N	3	9	-	2	6	-	1	6	.	2	0	1	4	5	W	1	1	0	-	4	2	-	2	8	.	1	7	5	6	3
Northing						Easting																								
6	9	6	4	9	6	8	.	4	0						1	8	6	4	1	4	7	.	1	2						
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 M 5481.181 FT				Geoid Height M 5538.90 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 4.206 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)		2 0 0 1 0 0		Description SE corner Sec. 31																										
Occupation time				PDOP Best				RMS Best																						
Number of Measurements 60				PDOP Worst 2.1				RMS Worst 10.9																						
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 1511200100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-01-05

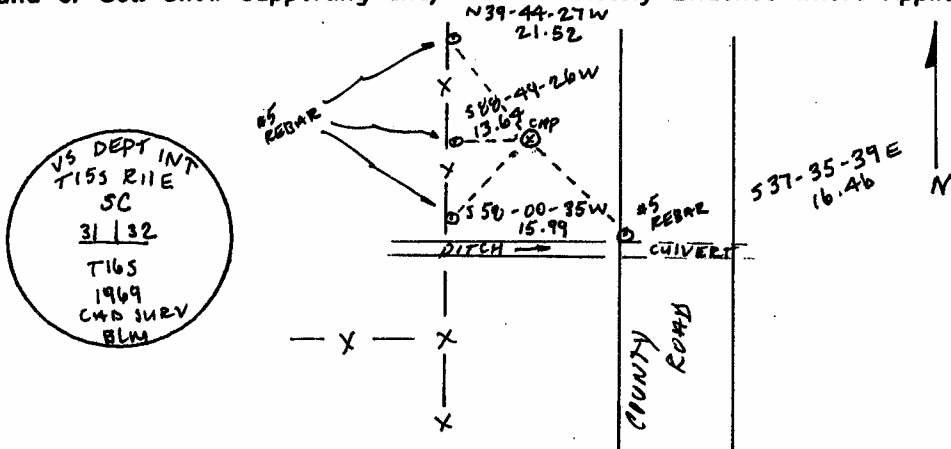
County Reference No. 1511200100

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

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET 4 #5 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:

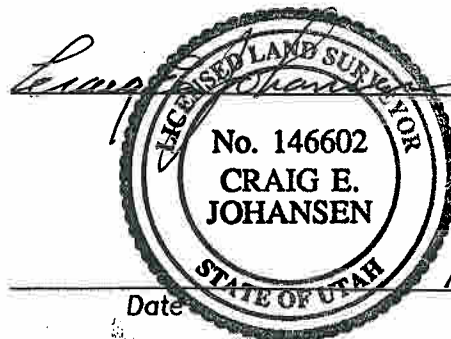
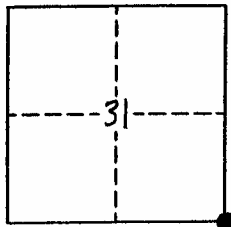
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 31
 Township: 15S
 Range: 11E



Date: 12-12-05

PLSS GPS Observation Sheet

Project Name SL T15S R11E <small>(Meridian Township Range)</small>		Township T 1 5		1/2 (2) N S S	Range 1 1		1/2 (2) E W E	Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING					Date 12/01/05																							
Contacts Phone (435) 381-2523																														
Control Station																														
Name CP - 1		Type COR HARN TRI <input checked="" type="radio"/> Other Local Survey					Accuracy																							
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local					Order State UTAH County EMERY																							
Latitude						Longitude																								
N	3	9	-	2	6	-	1	6	.	2	0	1	4	5	W	1	1	0	-	4	2	-	2	8	.	1	7	5	6	3
Northing						Easting																								
6	9	6	4	9	6	8	.	4	0						1	8	6	4	1	4	7	.	1	2						
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		M		5481.181 FT		Geoid Height		M		5538.90 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 4.206 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)		2 4 0 1 0 0		Description S 1/4 corner Sec. 32																										
Occupation time		PDOP Best				RMS Best																								
Number of Measurements 60		PDOP Worst 2.1				RMS Worst 17.8																								
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 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 1511240100

PLSS GPS Observation Sheet

Project Name SL T15S R11E <small>(Meridian Township Range)</small>				Township		½ (2)	N S	Range		½ (2)	E W	Section	Meridian																		
				T	1	5	S	1	1		E		(SL) US																		
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 12/01/05																					
Contacts Phone (435) 381-2523																															
Control Station																															
Name CP - 1				Type COR HARN TRI <input checked="" type="radio"/> Other Local Survey						Accuracy																					
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local						Order State UTAH County EMERY																					
Latitude						Longitude																									
N	3	9	-	2	6	-	1	6	.	2	0	1	4	5	W	1	1	0	-	4	2	-	2	8	.	1	7	5	6	3	
Northing						Easting																									
6	9	6	4	9	6	8	.	4	0						1	8	6	4	1	4	7	.	1	2							
Units Survey Foot <input type="radio"/> International Foot <input checked="" type="radio"/> Meter				Coordinate Type State Plane <input 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 M 5481.181 FT				Geoid Height M 5538.90 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 4.206 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 <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	1	0	0	Description SE corner Sec. 32																						
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 2.6				RMS Worst 9.1																							
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 1511300100

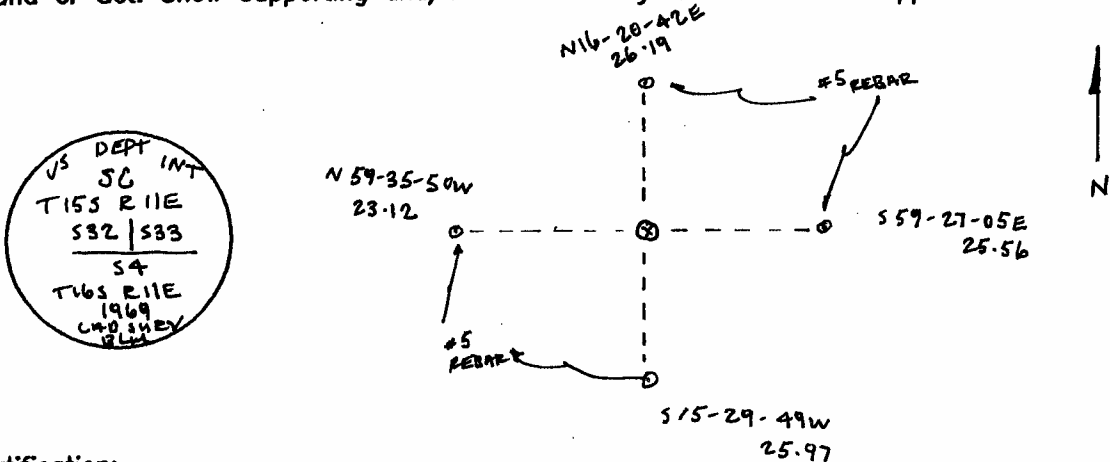
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-01-05 County Reference No. 1511300100
 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 POST ALONGSIDE

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET A #5 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.

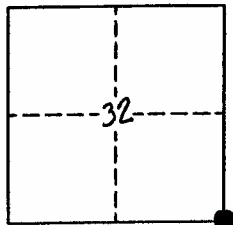


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 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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: 11E



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