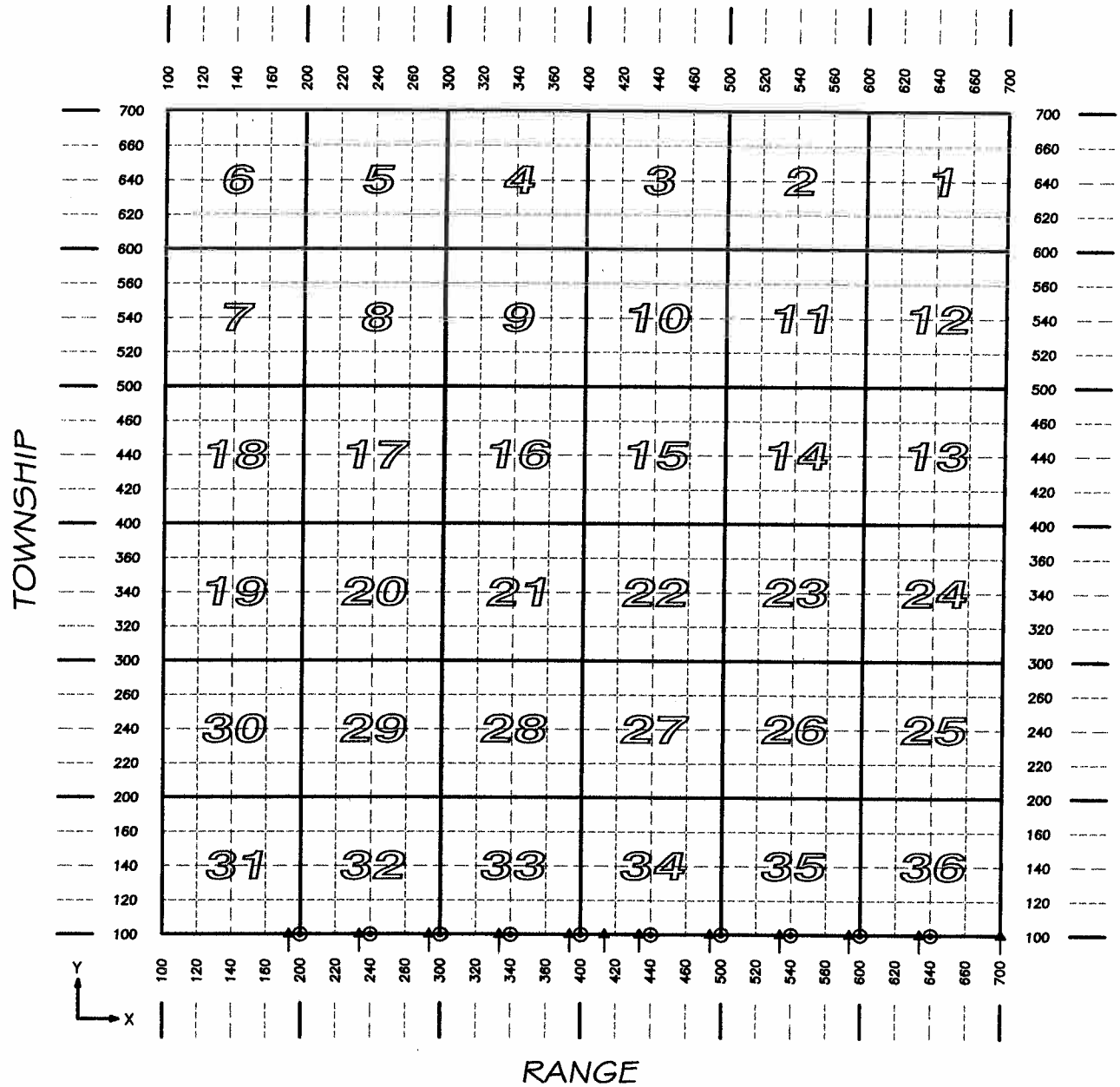


Emery County 2000 Point ID System



$\frac{T}{R} \frac{X}{Y}$
 $\frac{15}{10} \frac{40}{400} = S \ 1/4, \ Sec. \ 15, \ T \ 15 \ S, \ R \ 10 \ E.$

1510

T. 15 S. R. 10 E. SLM

- ⊙ MONUMENT RECORD FILED
- △ SEE ADJOINING SHEET

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)				Township T 1 5		½ (2)	N S	Range 1 0		½ (2)	E W	Section		Meridian (SL) US																		
				Contacts Name Lee M. Swasey Contacts Phone (435) 381-2523				Source Agency JOHANSEN & TUTTLE ENGINEERING					Date 12/05/05																			
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																							
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				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 st		M		2 nd		M		3 rd		M		Ave 4.482 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)				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

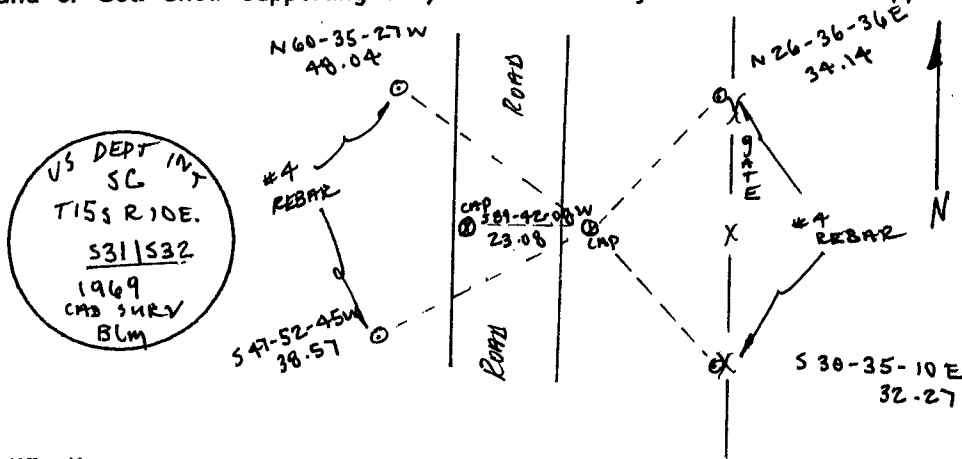
EMERY COUNTY LAND SURVEY MONUMENT RECORD

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.

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.

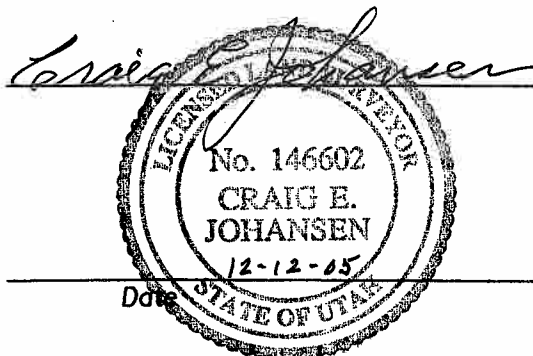
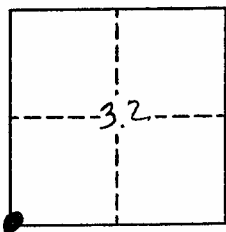


Certification:

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



Date: _____

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)				Township		½ (2)	N S	Range		½ (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						12/05/05																					
Control Station																															
Name CP-WEST				Type				Accuracy																							
				COR	HARN	TRI	Other LOCAL SURVEY			Order																					
USGS Quad Name				Datum				State UTAH																							
ELMO 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 <input type="radio"/> International Foot <input checked="" type="radio"/> Meter <input type="radio"/>				Coordinate Type				<input type="radio"/> State Plane <input checked="" type="radio"/> UTM																							
Zone Utah North <input type="radio"/> Utah Central <input checked="" type="radio"/> Utah South <input type="radio"/>				Vertical Datum				NGVD29 <input type="radio"/> NAVD88 <input checked="" type="radio"/>																							
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 4.482 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 <input type="radio"/> FAST STATIC <input type="radio"/> STATIC <input type="radio"/> 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 2.0				RMS Worst 11.7																							
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 1510240100

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)		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							Date																					
Contacts Phone (435) 381-2523		JOHANSEN & TUTTLE ENGINEERING							12/05/05																					
Control Station																														
Name CP-WEST		Type								Accuracy																				
		COR	HARN	TRI	Other LOCAL SURVEY			Order																						
USGS Quad Name		Datum								State UTAH																				
ELMO 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																					
Start Time				AM	PM	End Time				AM	PM																			
Antenna Height																														
Session Beginning		1"	M	2 nd		M	3 rd		M	Ave 4.482 Feet		M																		
Session End		1"	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)		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 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 1510300100

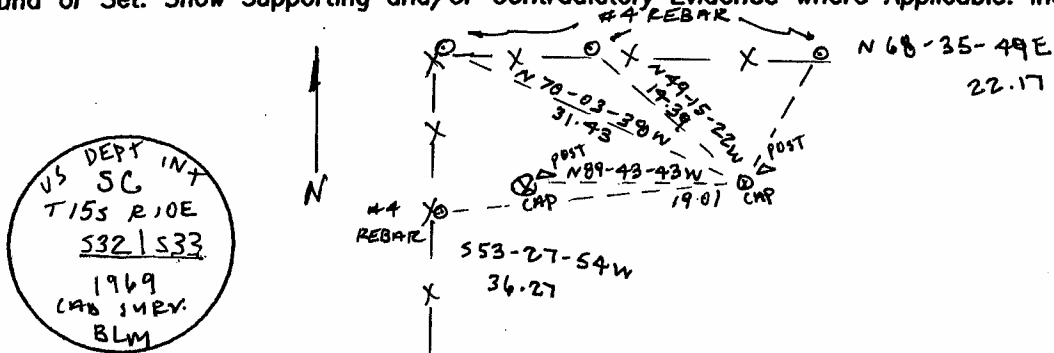
EMERY COUNTY LAND SURVEY MONUMENT RECORD

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.

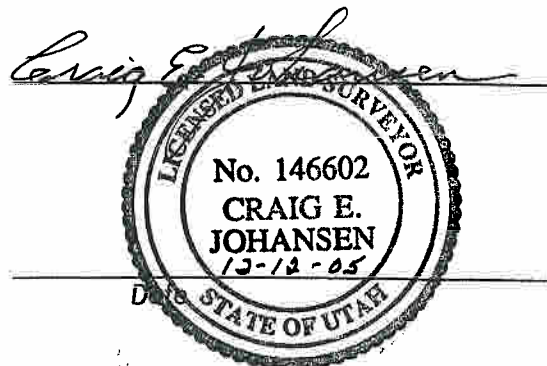
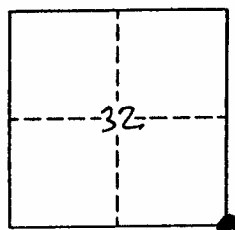


Certification:

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 <input checked="" type="checkbox"/> Other LOCAL SURVEY						Accuracy Order																				
				COR	HARN	TRI																								
USGS Quad Name ELMO UTAH				Datum <input checked="" type="checkbox"/> Nad83 (1994)						State UTAH																				
				Nad27	Nad83	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	<input checked="" type="checkbox"/> International Foot		Meter		Coordinate Type				<input checked="" type="checkbox"/> State Plane		UTM															
Zone		Utah North		<input checked="" type="checkbox"/> Utah Central		Utah South		Vertical Datum		NGVD29		<input checked="" type="checkbox"/> 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 4.482 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="checkbox"/> RTK		FAST STATIC		STATIC		OTHER																				
First Observation																														
Station Name (M1)		3		4		0		1		0		0		Description S 1/4 corner Sec. 33																
Occupation time				PDOP Best				RMS Best																						
Number of Measurements				60				PDOP Worst				1.1				RMS Worst				15.8										
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		2 ½ / 3 ¼		1969 BLM		Size		Size		Material		Material																		
Material		steel / brass		Material		Material		Material		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 1510340100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

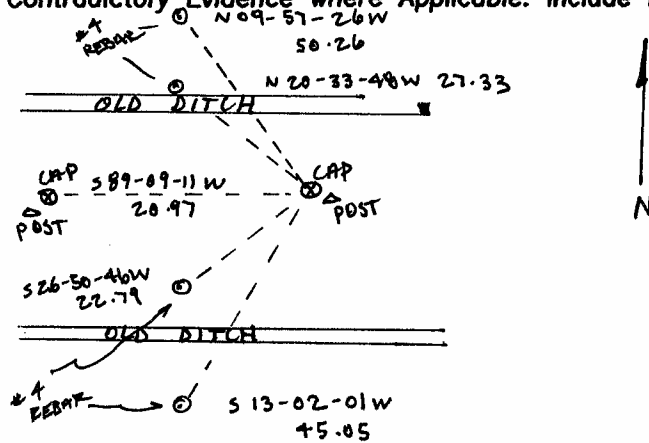
Date of field work: 12-9-05 County Reference No. 1510340100

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

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 2" 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.



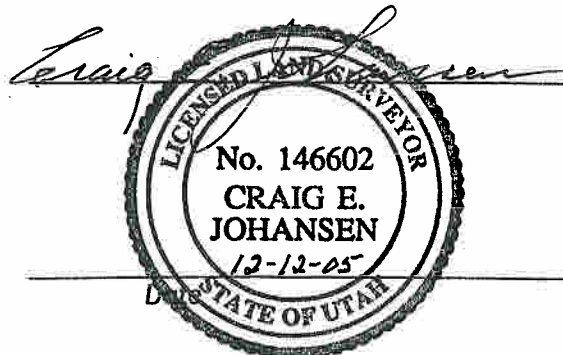
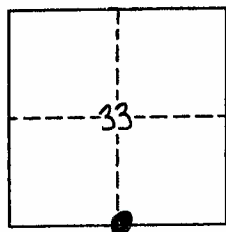
Certification:

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: 33
 Township: 15S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T15S R10E <small>(Meridian Township Range)</small>		Township T 1 5		1/2 N S (2) S		Range 1 0		1/2 E W (2) E		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 <u>Other</u> LOCAL SURVEY						Accuracy Order							
USGS Quad Name ELMO UTAH		Datum Nad27 Nad83 <u>Nad83 (1994)</u> 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 <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				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 <u>RTK</u> FAST STATIC STATIC OTHER															
First Observation															
Station Name (M1)		4 0 0 1 0 0		Description SW corner Sec. 34											
Occupation time		PDOP Best				RMS Best									
Number of Measurements 60		PDOP Worst 1.4				RMS Worst 13.5									
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 1510400100

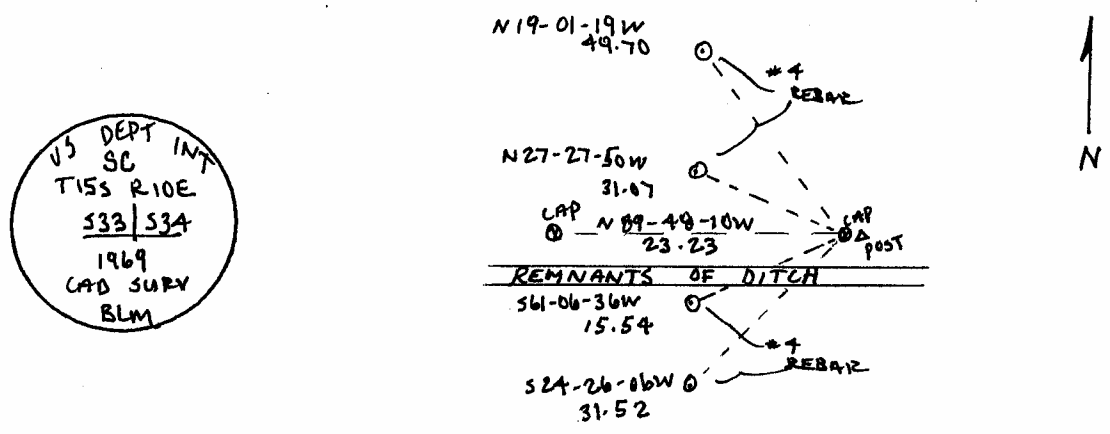
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-9-05 County Reference No. 1510400100
 Type of Monument: Section Corner Quarter Corner
 Bench Mark Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP WITH A STEEL FENCE POST DRIVEN ALONGSIDE
 A 1969 BLM BRASS CAP CONTROLLING TOWNSHIP 16 SOUTH SECTION 3
 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.

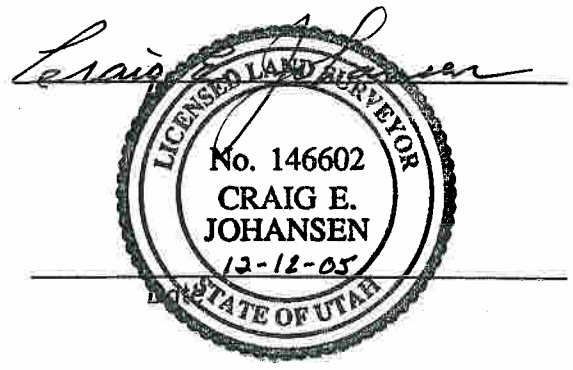
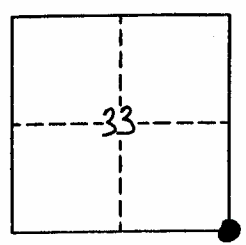
Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether
 Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



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: 33
 Township: 15S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T15S R10E <small>(Meridian Township Range)</small>			Township		$\frac{1}{2}$ (2)	N S	Range		$\frac{1}{2}$ (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 11/11/05																									
Contacts Phone (435) 381-2523																																	
Control Station																																	
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="radio"/> Other EMERY COUNTY					Accuracy Order																										
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) 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 <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 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 nd M		3 rd M		Ave 4.718 Feet M																									
Session End		1" 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)		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 / 3/4 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

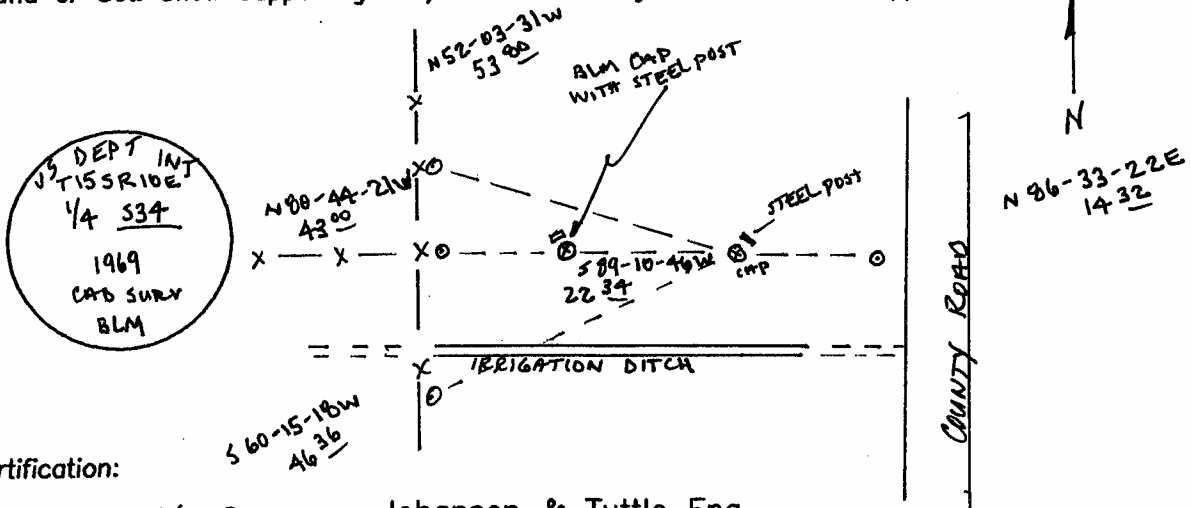
County Reference No. 15104401DD

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.

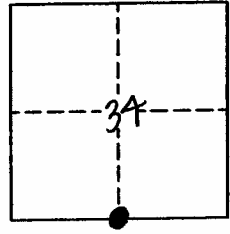


Certification:

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

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)		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 Contacts Phone (435) 381-2523		Source Agency JOHANSEN & TUTTLE ENGINEERING							Date 11/22/05																						
Control Station																															
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="radio"/> Other EMERY COUNTY								Accuracy Order																					
		USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) 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		<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																			
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 4.685 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 FAST STATIC STATIC OTHER																															
First Observation																															
Station Name (M1)		5		0		0		1		0		0		Description SW corner Sec. 35																	
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.5				RMS Worst 10.3																							
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 1510500100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-22-05

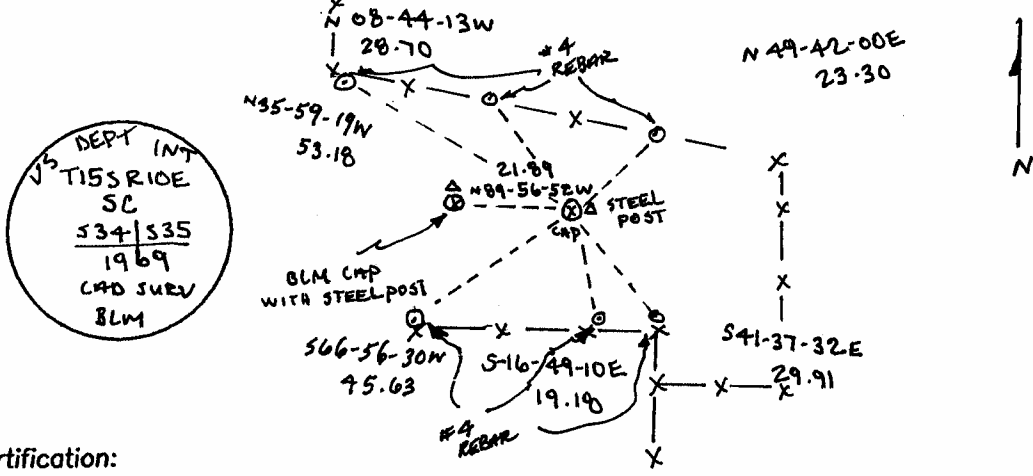
County Reference No. 1510500100

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

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 12" ABOVE GROUND LEVEL WITH A STEEL FENCE POST
 DRIVEN ALONGSIDE

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

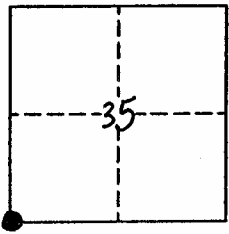


Certification:

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: 35
 Township: 15S
 Range: 10E



Craig E. Johansen

 12-12-05

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 11/22/05																						
Contacts Phone (435) 381-2523																																
Control Station																																
Name ELM GPS 12				Type COR HARN TRI <input checked="" type="radio"/> Other EMERY COUNTY						Accuracy Order																						
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) 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 <input type="radio"/> International Foot <input checked="" type="radio"/> Meter				Coordinate Type <input type="radio"/> State Plane <input checked="" 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 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 nd		M		3 rd		M	Ave 4.685 Feet M																			
Session End		1"		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)		5		4		0		1		0		0	Description S 1/4 corner Sec. 35																			
Occupation time				PDOP Best				RMS Best																								
Number of Measurements 60				PDOP Worst 3.9				RMS Worst 6.0																								
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 1510540100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-22-05

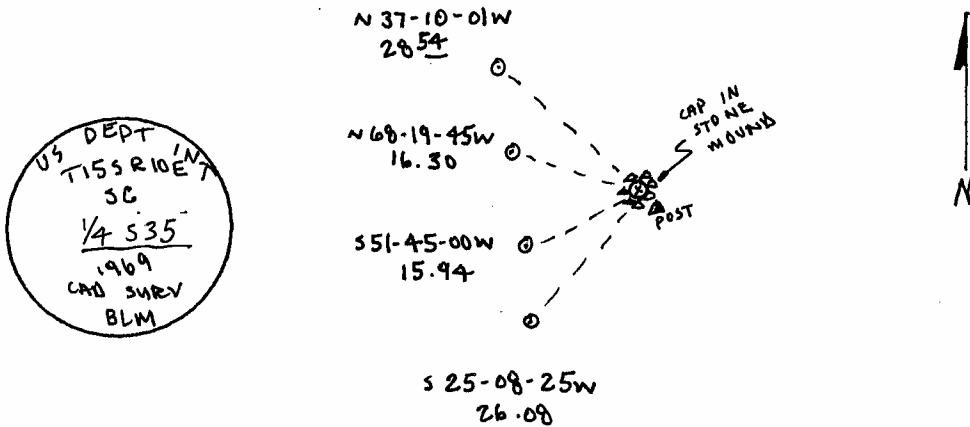
County Reference No. 1510540100

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

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS 12" ABOVE GROUND LEVEL IN A STONE MOUND WITH A STEEL
 FENCE POST DRIVEN ALONGSIDE CAP.

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

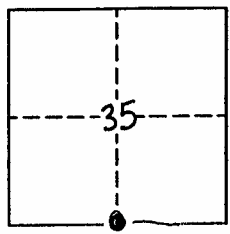


Certification:

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: 35
 Township: 15S
 Range: 10E



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

PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)		Township T 1 5		¼ (2) S	N S	Range 1 0		½ (2) E W	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 <u>Other</u> Local Survey						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	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		<u>International Foot</u>		Meter		Coordinate Type		<u>State Plane</u>		UTM																		
Zone		Utah North		<u>Utah Central</u>		Utah South		Vertical Datum		NGVD29		<u>NAVD88</u>																		
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		<u>RTK</u>		FAST STATIC		STATIC		OTHER																						
First Observation																														
Station Name (M1)		6	0	0	1	0	0	Description				SW corner Sec. 36																		
Occupation time		PDOP Best		RMS Best																										
Number of Measurements		60		PDOP Worst		3.5		RMS Worst				5.0																		
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 1510600100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-29-05

County Reference No. 1510600100

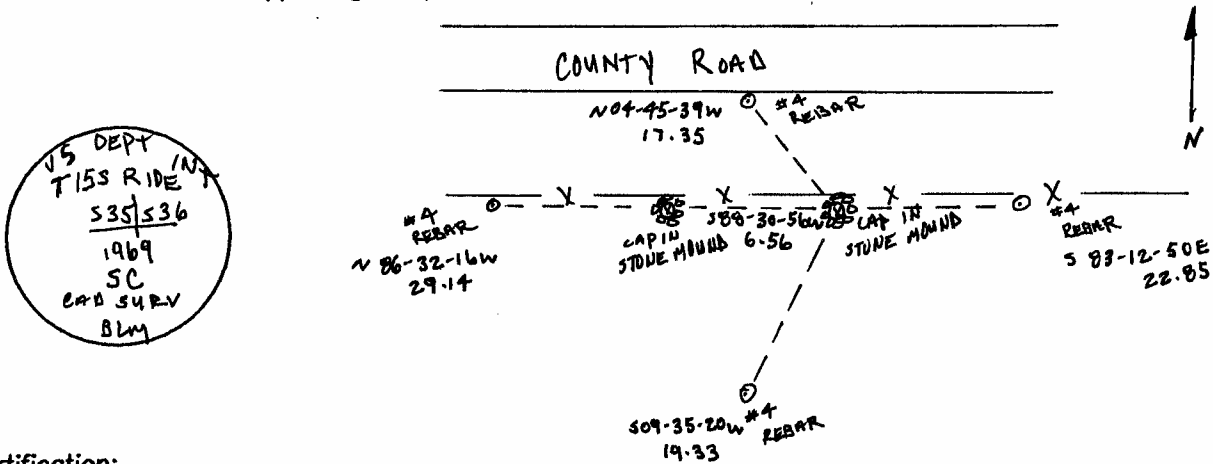
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP IN A STONE MOUND. THE CONTROLLING CORNER FOR TOWNSHIP 16 SOUTH 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

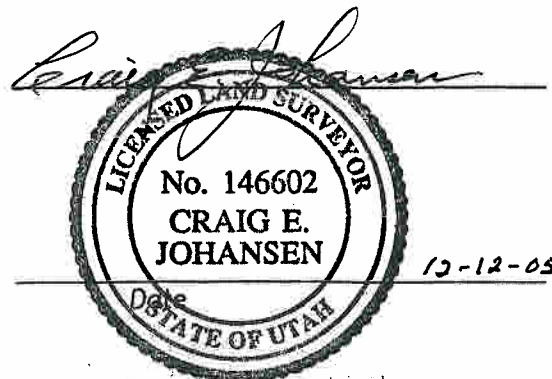
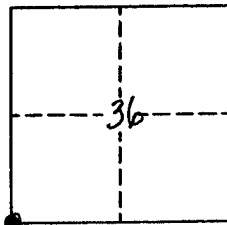
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 36

Township: 15S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T15S R10E (Meridian Township Range)		Township T 1 5		¼ (2) S	N S	Range 1 0		¼ (2) E W	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 Order																						
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local						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 <input type="radio"/> Meter		Coordinate Type State Plane <input checked="" 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)		6		4		0		1		0		0		Description S 1/4 corner Sec. 36																
Occupation time		PDOP Best				RMS Best																								
Number of Measurements 60		PDOP Worst 2.3				RMS Worst 8.2																								
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 / 3/4 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 1510640100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-01-05

County Reference No. 1510640100

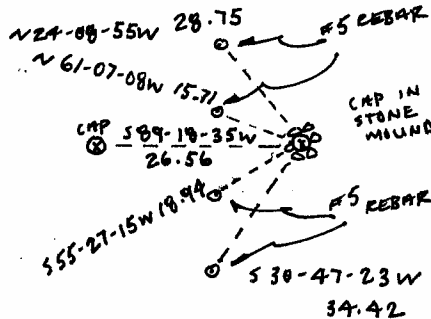
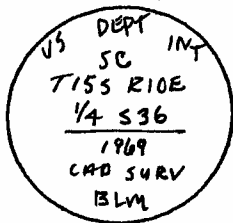
Type of Monument: _____ Section Corner
_____ Bench Mark

Quarter Corner
_____ Other _____

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP IN A STONE MOUND WITH THE CONTROLLING CORNER FOR TOWNSHIP 16 SOUTH
SECTION 4 SETTING 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 #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: 36

Township: 15S

Range: 10E

