

R T W N
 1017440400 = S 1/4, S16, T17S, R10E.

1017

T. 17 S. R. 10 E. SLM

- © MONUMENT RECORD FILED
- SEE ADJOINING SHEET

EMERY COUNTY SECTION CORNERS															1017		
NAD 83 (1994) State Plane Coordinate Data, Utah Central Zone																	
TOWNSHIP 17 SOUTH, RANGE 10 EAST																	
SECTION CODE	METERS					LATITUDE					LONGITUDE					FEET	
	NORTHING	EASTING	ELEVATION	D	M	S	D	M	S	D	M	S	NORTHING	EASTING	ELEVATION		
1017700300	2110143.311	555914.482	1771.647	39°	19'	25.0211"	N	110°	51'	05.4837"	W	6923042.36	1823866.41	5812.49			
1017700340	2110964.686	555898.038	1751.948	39°	19'	51.6599"	N	110°	51'	05.9217"	W	6925737.16	1823812.46	5747.86			
1017700400	2111769.483	555883.993	1738.790	39°	20'	17.7606"	N	110°	51'	06.2646"	W	6928377.57	1823766.38	5704.69			
1017700440	2112581.815	555869.362	1735.985	39°	20'	44.1057"	N	110°	51'	06.6297"	W	6931042.70	1823718.38	5695.49			
1017700500	2113396.256	555851.964	1744.093	39°	21'	10.5198"	N	110°	51'	07.1099"	W	6933714.75	1823661.30	5722.09			
1017700540	2114201.007	555836.340	1745.550	39°	21'	36.6194"	N	110°	51'	07.5190"	W	6936355.01	1823610.04	5726.87			
1017700600	2115013.573	555814.297	0.000	39°	22'	02.9738"	N	110°	51'	08.1939"	W	6939020.91	1823537.72	0.00			
1017700600-WC	2115055.112	555813.776	1768.181	39°	22'	04.3209"	N	110°	51'	08.2032"	W	6939157.19	1823536.01	5801.12			
1017700640	2115827.408	555804.095	1752.435	39°	22'	29.3666"	N	110°	51'	08.3739"	W	6941690.97	1823504.25	5749.46			
1017700700	2116637.307	555793.309	1753.344	39°	22'	55.6319"	N	110°	51'	08.5796"	W	6944348.12	1823468.86	5752.44			

EMERY COUNTY SECTION CORNERS													1017
NAD 83 (1994) State Plane Coordinate Data, Utah Central Zone													
TOWNSHIP 17 SOUTH, RANGE 10 EAST													
SECTION CODE	NORTHING	FEET (0.3048)		ELEVATION			ROTATION			SCALE	ELEV. FACT.	C.F.	1 / C.F.
		EASTING		D	M	S	D	M	S				
1017700300	6923042.36	1823866.41		5812.49	0	24	55.4412			0.99993839	0.99972205	0.99966045	1.00033966
1017700340	6925737.16	1823812.46		5747.86	0	24	55.1606			0.99993725	0.99972514	0.99966240	1.00033771
1017700400	6928377.57	1823766.38		5704.69	0	24	54.9409			0.99993616	0.99972720	0.99966338	1.00033673
1017700440	6931042.70	1823718.38		5695.49	0	24	54.7071			0.99993507	0.99972764	0.99966273	1.00033739
1017700500	6933714.75	1823661.30		5722.09	0	24	54.3995			0.99993399	0.99972637	0.99966038	1.00033974
1017700540	6936355.01	1823610.04		5726.87	0	24	54.1374			0.99993294	0.99972614	0.99965910	1.00034102
1017700600	6939020.91	1823537.72		5726.87	0	24	53.7051			0.99993190	0.99972614	0.99965806	1.00034206
1017700600-WC	6939157.19	1823536.01		5801.12	0	24	53.6991			0.99993184	0.99972259	0.99965445	1.00034567
1017700640	6941690.97	1823504.25		5749.46	0	24	53.5898			0.99993087	0.99972506	0.99965595	1.00034417
1017700700	6944348.12	1823468.86		5752.44	0	24	53.4580			0.99992986	0.99972492	0.99965480	1.00034532

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: DEC 3 1999 County Reference No. 1017700640

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

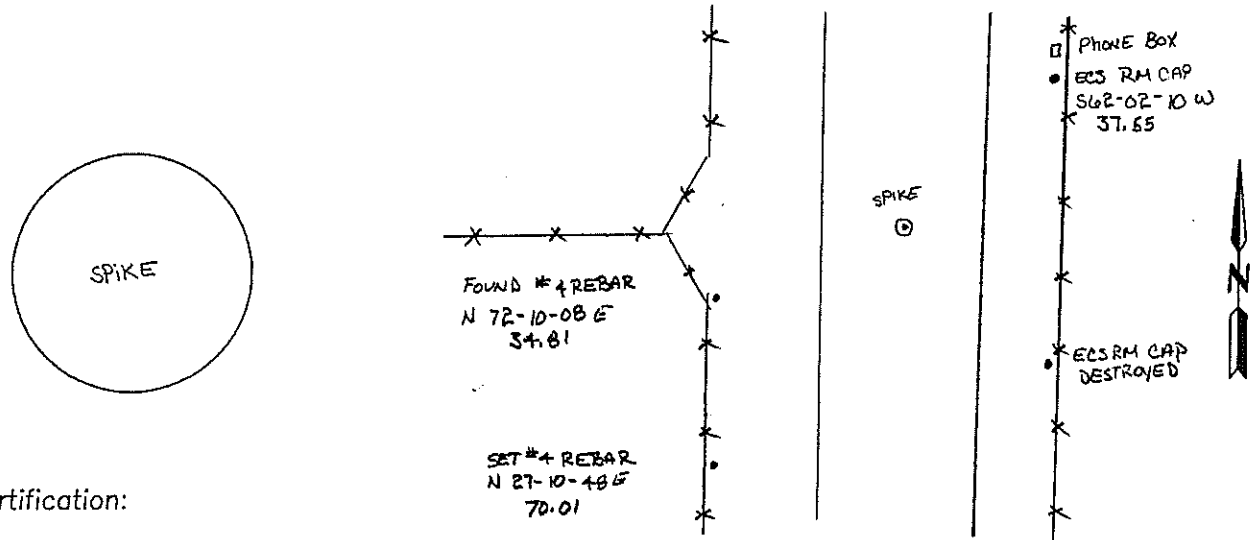
Your Description and Observation of Monument Found (Be Specific):

FOUND Two ECS RM CAPS, ONE HAS THE TOP DESTROYED
 FOUND SPIKE IN ROAD AT PROPER DISTANCE FROM NORTH RM, AND 0¹⁰ FROM CENTER OF DAMAGED RM
 CHECKED SPIKE WITH old RECORDS & DETERMINED IT TO BE THE TRUE CORNER

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

SET A #4 REBAR SOUTHWEST OF THE CORNER

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.



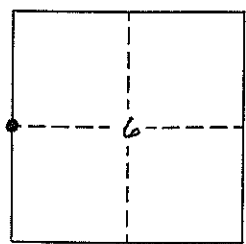
Certification:

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

Address: 90 South 100 East, Castle Dale, Utah 84513 Phone: (435) 381-2523

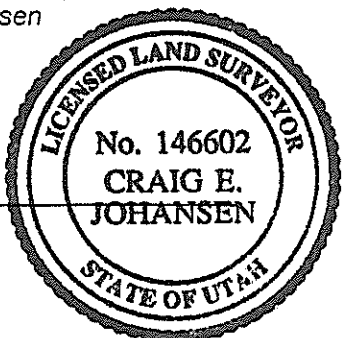
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 6
 Township: 17
 Range: 10



Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: Dec 3 1999

County Reference No. 1017700700

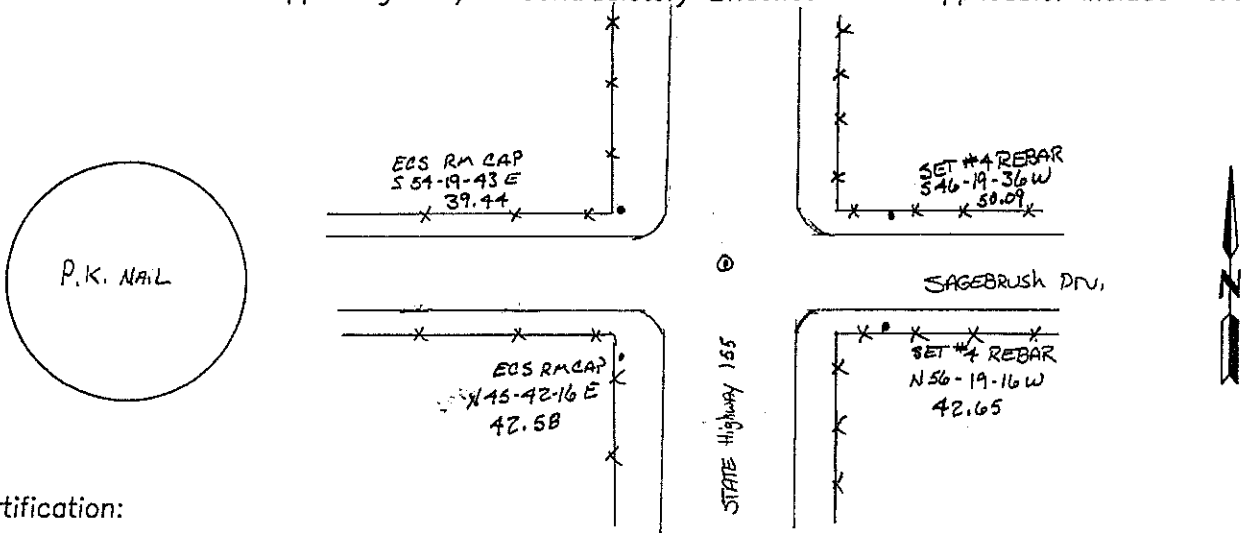
Type of Monument: ✓ Section Corner _____ Quarter Corner _____
 _____ Bench Mark _____ Other _____

Your Description and Observation of Monument Found (Be Specific):
 Found Two EOS RM CAPS, MEASURED, AND FOUND A PK NAIL IN THE HIGHWAY

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

SET A#4 REBAR NORTHWEST AND SOUTHWEST OF THE CORNER

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.



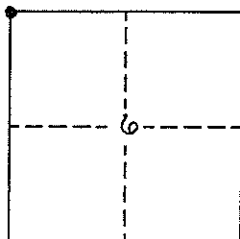
Certification:

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

Address: 90 South 100 East, Castle Dale, Utah 84513 Phone: (435) 381-2523

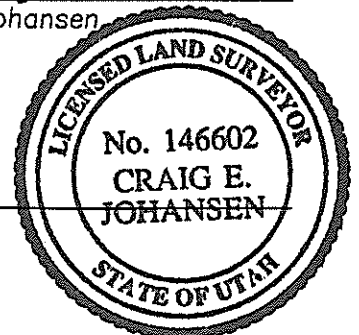
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 6
 Township: 17 S
 Range: 10 E



Craig E. Johansen
 Craig E. Johansen

3-15-00
 Date



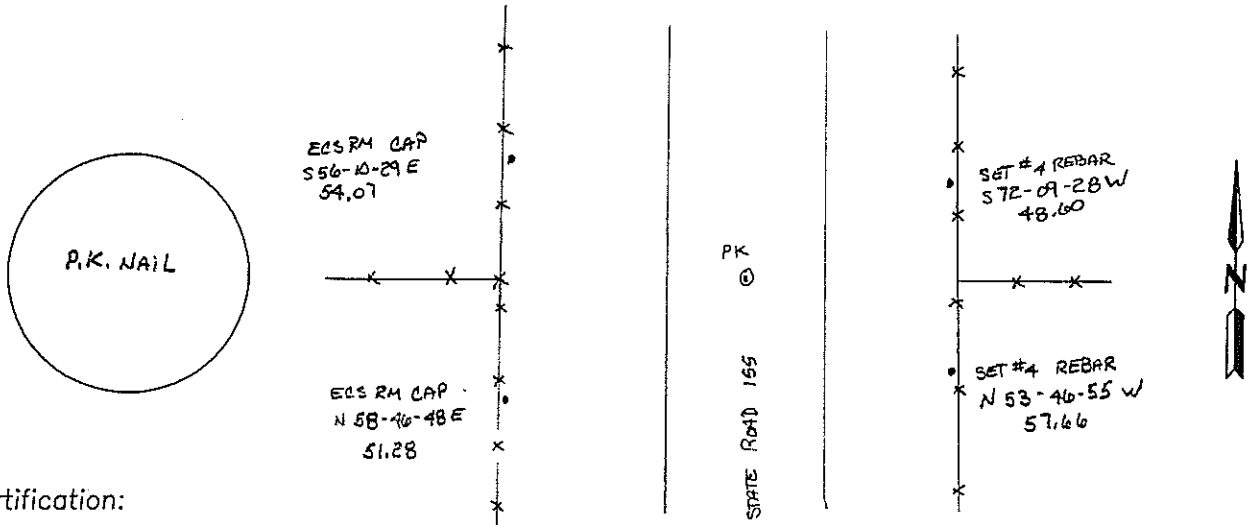
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: Nov 30 1999 County Reference No. 10 17 700540
 Type of Monument: _____ Section Corner Quarter Corner
 _____ Bench Mark _____ Other _____

Your Description and Observation of Monument Found (Be Specific):
FOUND TWO E.C.S. RM CAPS IN WEST RIGHT OF WAY FENCE

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point:
MEASURED AND SET A P.K. NAIL IN ROAD FOR THE CORNER
SET A # 5 REBAR NORTH EAST, AND SOUTHEAST OF THE MONUMENT

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.

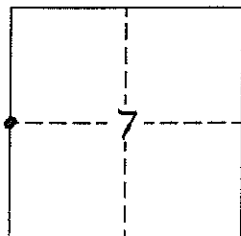


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng. Craig E. Johansen
 Address: 90 South 100 East, Castle Dale, Utah 84513 Phone: (435) 381-2523

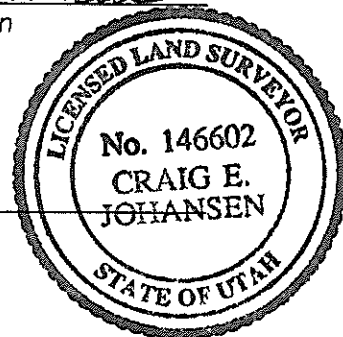
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 7
 Township: 17 S
 Range: 10 E



Craig E. Johansen
 Craig E. Johansen

3-15-00
 Date



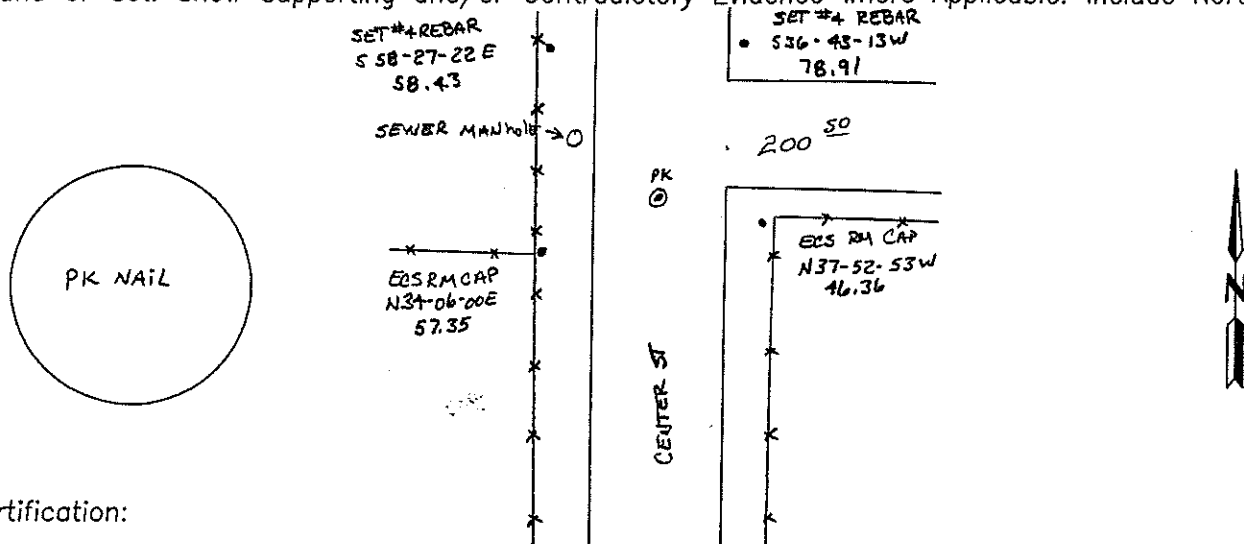
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: FEB 5 1999 County Reference No. 1017700440
 Type of Monument: _____ Section Corner Quarter Corner
 _____ Bench Mark _____ Other _____

Your Description and Observation of Monument Found (Be Specific):
 FOUND TWO ECS RM CAPS, MEASURED AND FOUND A PK NAIL IN THE ROAD

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point:
 SET #4 REBAR NORTHEAST, AND NORTHWEST OF CORNER

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.



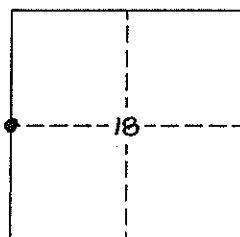
Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng. Craig E. Johansen
 Address: 90 South 100 East, 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.

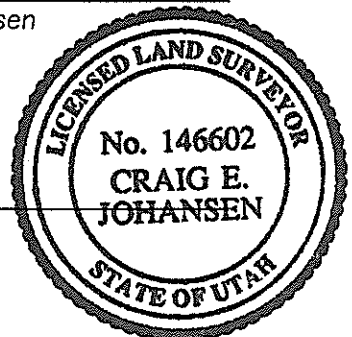
Location Diagram:

Section: 18
 Township: 17^S
 Range: 10 E



Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



EMERY COUNTY LAND SURVEY MONUMENT RECORD

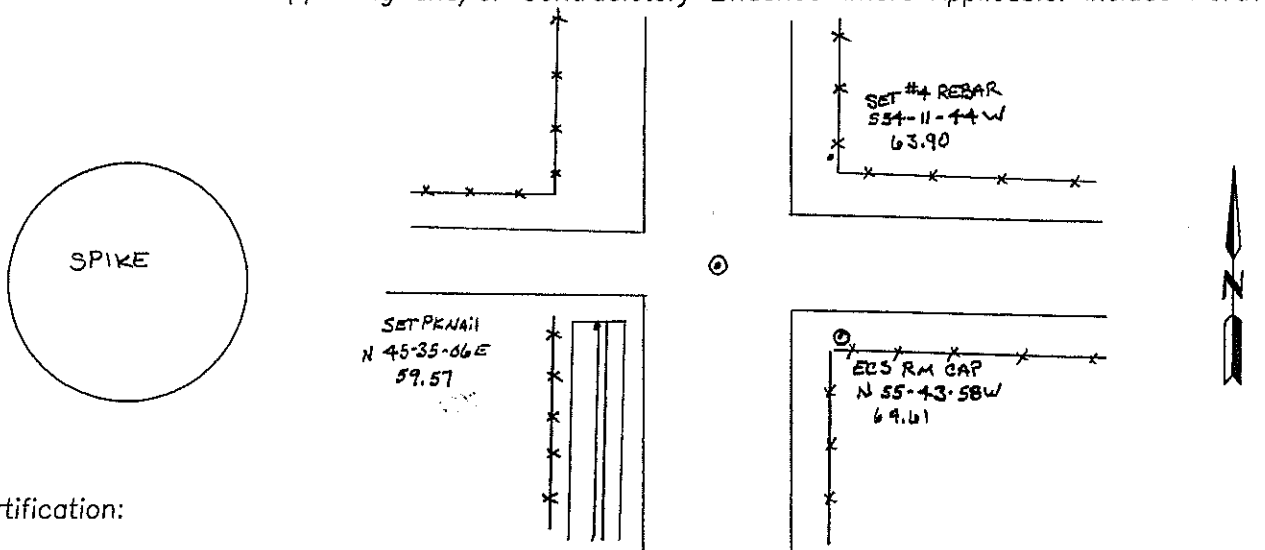
Date of field work: Feb 5 1999 County Reference No. 1017 700 500

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

Your Description and Observation of Monument Found (Be Specific):
 FOUND ONE EGS RM CAP. FOUND SPIKE IN ROAD AT DISTANCE MARKED ON RM.

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point:
 SET A PK IN CURB SOUTH WEST OF CORNER.
 SET A #4 REBAR NORTHEAST OF CORNER

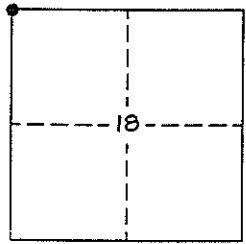
Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



Certification:
 Firm name and/or Surveyor: Johansen & Tuttle Eng. Craig E. Johansen
 Address: 90 South 100 East, Castle Dale, Utah 84513 Phone: (435) 381-2523

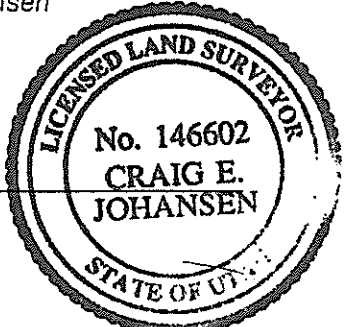
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 18
 Township: 17 S
 Range: 10 E



Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



EMERY COUNTY LAND SURVEY MONUMENT RECORD

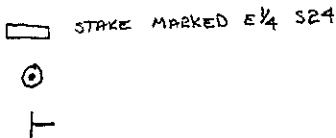
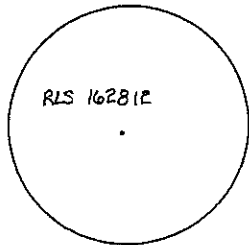
Date of field work: Feb 8 1999 County Reference No. 1017 700 340

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

Your Description and Observation of Monument Found (Be Specific):
 FOUND A 1" PLASTIC CAP WITH A STAKE AND STEEL POST IN A CULTIVATED FIELD

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

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.



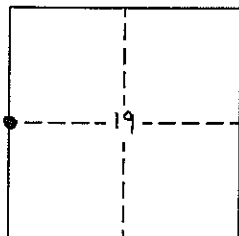
Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng. Craig E. Johansen
 Address: 90 South 100 East, 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.

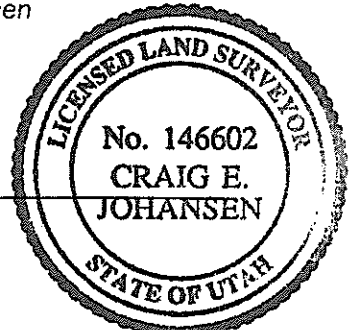
Location Diagram:

Section: 19
 Township: 17 S
 Range: 10 E



Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



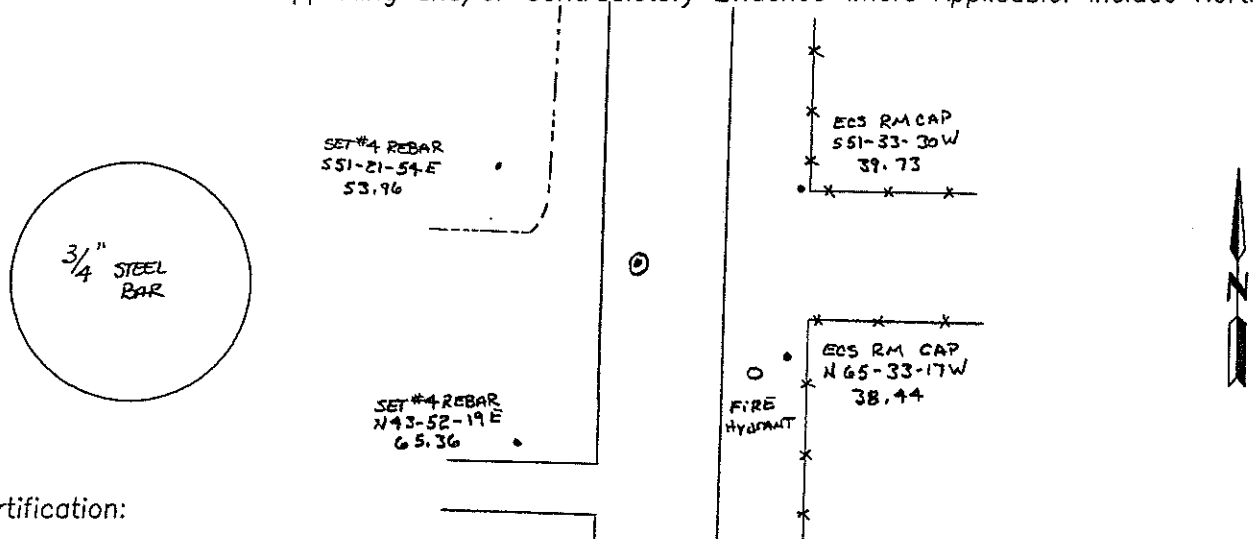
EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: Feb 8 1999 County Reference No. 101700400
 Type of Monument: ✓ Section Corner _____ Quarter Corner _____
 _____ Bench Mark _____ Other _____

Your Description and Observation of Monument Found (Be Specific):
 FOUND TWO ECS RM CAPS EAST OF COUNTY ROAD
 MEASURED, AND FOUND A 3/4" Ø STEEL BAR IN THE ROAD

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point:
 SET A #4 REBAR NORTHWEST, AND SOUTHWEST OF THE MONUMENT

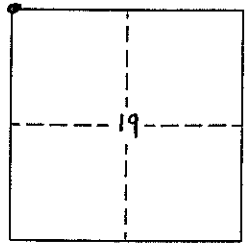
Sketch showing Relative Location of Monument Accessories and Two Reference Points Stating Whether Found or Set. Show Supporting and/or Contradictory Evidence where Applicable. Include North Arrow.



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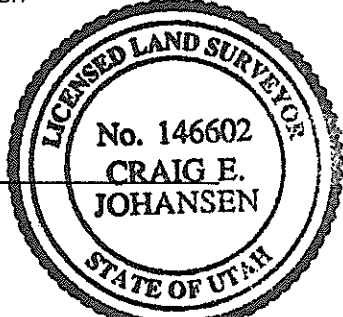
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 19
 Township: 17S
 Range: 10E



Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 2-8-99 County Reference No. 1017700300

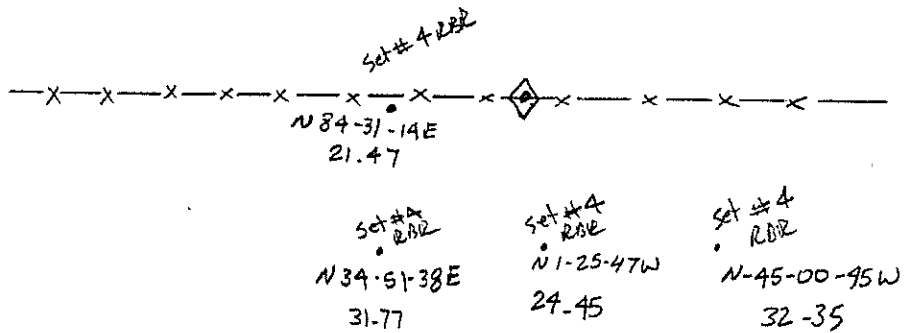
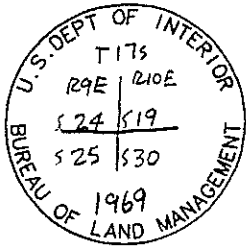
Type of Monument: X Section Corner _____ Quarter Corner _____
 _____ Bench Mark _____ Other _____

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

Found STD BLM Cap Along A East-West Fence

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: *Set a #4 Rebar West, South West, South, and South East of Monument*

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.

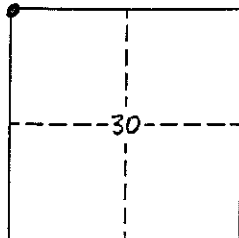


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng. Craig E. Johansen
 Address: 90 South 100 East, Castle Dale, Utah 84513 Phone: (435) 381-2523

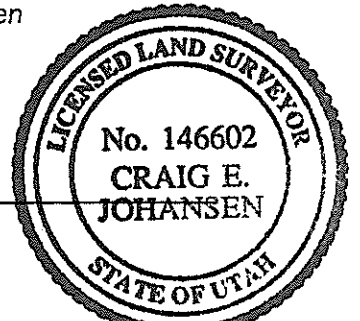
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:
 Section: 30
 Township: 17S
 Range: 10E

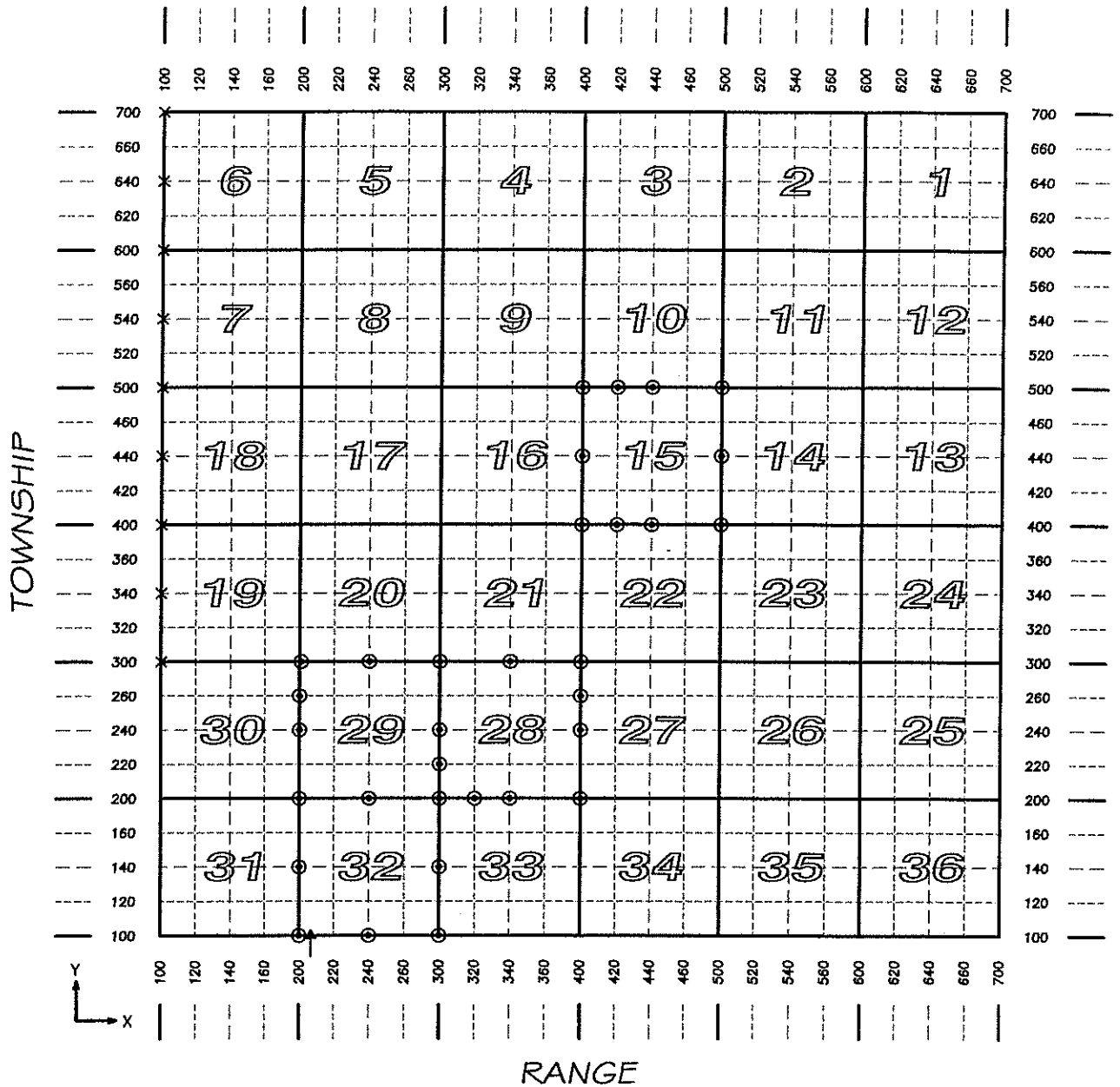


Craig E. Johansen
 Craig E. Johansen

2-15-00
 Date



Emery County 2000 Point ID System



$\frac{T}{17} \frac{R}{10} \frac{X}{40} \frac{Y}{400} = S \frac{1}{4}, Sec. 15, T 17 S, R 10 E.$

1710

T. 17 S. R. 10 E. SLM

⊙ MONUMENT RECORD FILED

△ SEE ADJOINING SHEET

× SEE SHEET 1017

EMERY COUNTY SECTION CORNERS							1710
NAD 83 (1994) State Plane Coordinate Data, Central Zone							2000 id system
TOWNSHIP 17 SOUTH, RANGE 10 EAST							
SECTION CODE	INTERNATIONAL FEET			POSITION		LONGITUDE	
	NORTHING	EASTING	ELEV.	LATITUDE			
1710200100	6912542.25	1829316.77	5887.82	N 39-17-40.8437		W 110-49-57.1228	
1710200140	6915203.99	1829256.37	0.00	N 39-18-07.1563		W 110-49-57.6385	
WC - 1710200140	6915269.97	1829254.87	5813.21	N 39-18-07.8085		W 110-49-57.6513	
1710200200	6917866.38	1829193.30	5808.57	N 39-18-33.4755		W 110-49-58.1882	
1710200240	6920531.75	1829169.46	5796.03	N 39-18-59.8212		W 110-49-58.2386	
1710200260	6921864.23	1829171.09	5775.96	N 39-19-12.9911		W 110-49-58.0914	
1710200300	6923195.88	1829145.86	5757.29	N 39-19-26.1547		W 110-49-58.2860	
1710240100	6912578.45	1831971.96	5954.37	N 39-17-41.0042		W 110-49-23.3451	
1710240200	6917836.97	1831824.61	5761.55	N 39-18-32.9894		W 110-49-24.7135	
1710240300	6923234.33	1831800.97	5741.65	N 39-19-26.3377		W 110-49-24.4948	
1710300100	6912615.62	1834627.01	5892.72	N 39-17-41.1716		W 110-48-49.5689	
1710300140	6915263.19	1834602.87	5850.65	N 39-18-07.3415		W 110-48-49.6176	
1710300200	6917807.70	1834457.31	5785.94	N 39-18-32.5020		W 110-48-51.2212	
1710300220	6919209.98	1834552.18	5767.77	N 39-18-46.3546		W 110-48-49.8773	
1710300240	6920612.55	1834499.71	5738.50	N 39-19-00.2213		W 110-48-50.4080	
1710300300	6923272.13	1834456.31	5716.67	N 39-19-26.5114		W 110-48-50.7007	
1710320200	6917859.20	1835830.20	5823.39	N 39-18-32.9066		W 110-48-33.7492	
1710340200	6917909.94	1837201.73	5832.05	N 39-18-33.3031		W 110-48-16.2946	
1710340300	6923309.01	1837099.38	5695.77	N 39-19-26.6742		W 110-48-17.0628	
1710400200	6918011.49	1839949.78	5813.47	N 39-18-34.0941		W 110-47-41.3217	
1710400240	6920678.79	1839850.10	5808.25	N 39-19-00.4649		W 110-47-42.3225	
1710400260	6922013.35	1839799.99	5777.89	N 39-19-13.6593		W 110-47-42.8263	
1710400300	6923346.42	1839748.79	5744.51	N 39-19-26.8390		W 110-47-43.3441	
1710400400	6928666.06	1839652.04	5649.74	N 39-20-19.4247		W 110-47-44.0422	
1710400440	6931312.84	1839626.85	5649.86	N 39-20-45.5868		W 110-47-44.0975	
1710400500	6933961.86	1839599.86	5638.80	N 39-21-11.7712		W 110-47-44.1755	
1710420400	6928680.27	1840999.80	5671.61	N 39-20-19.4599		W 110-47-26.8863	
1710420500	6933962.94	1840926.23	5633.47	N 39-21-11.6783		W 110-47-27.2896	
1710440400	6928694.43	1842347.38	5711.42	N 39-20-19.4938		W 110-47-09.7327	
1710440500	6933964.50	1842250.87	5634.45	N 39-21-11.5896		W 110-47-10.4258	
1710500400	6928617.22	1845008.09	5764.28	N 39-20-18.5194		W 110-46-35.8748	
1710500440	6931292.67	1844956.29	5720.85	N 39-20-44.9671		W 110-46-36.2587	
1710500500	6933968.19	1844904.36	5662.42	N 39-21-11.4154		W 110-46-36.6444	

EMERY COUNTY SECTION CORNERS						
NAD 83 CONVERSION DATA						
1710						
TOWNSHIP	RANGE	SECTION	ROTATION ANGLE	COMBINED FACTOR GROUND TO GRID	INVERSE GRID TO GROUND	
T. 17 S.	R. 10 E.	1				
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15	0° 27' 26"	0.99966711	1.00033300	2005
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
		27				
		28	0° 26' 44"	0.99966709	1.00033302	2005
		29	0° 26' 00"	0.99966729	1.00033282	2005
		30				
		31				
		32	0° 26' 00"	0.99966575	1.00033436	2005
		33				
		34				
		35				
		36				

PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US		
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/08/05						
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 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 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" M		3" M		Ave 4.718 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 0 0 1 0 0		Description SW corner Sec. 32										
Occupation time		PDOP Best				RMS Best								
Number of Measurements 60		PDOP Worst 3.9				RMS Worst 20.7								
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 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 1710200100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-08-05

County Reference No. 1710200100

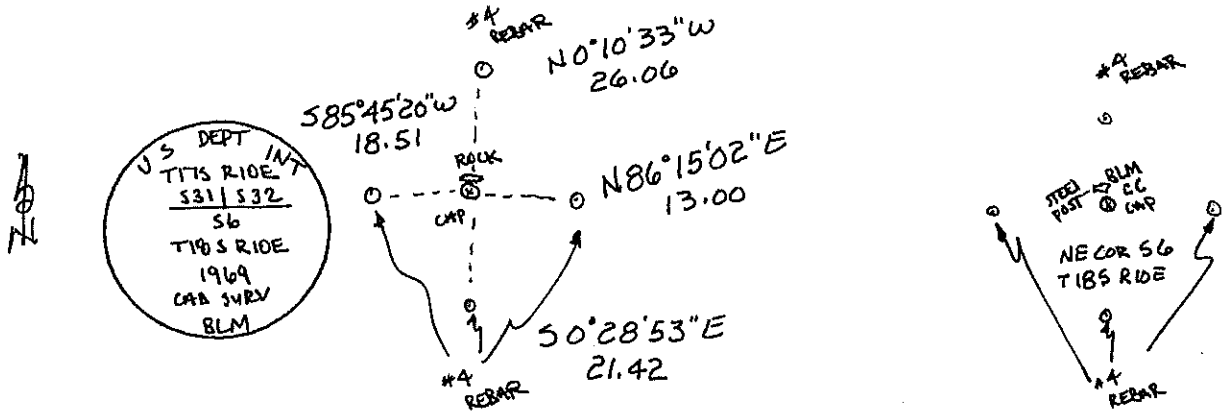
Type of Monument: Section Corner Quarter Corner
 Bench Mark Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 8" ABOVE GROUND LEVEL WITH A 3" X 10" X 16" STONE BURIED TO THE NORTH.

A CLOSING CORNER CAP SETS TO THE EAST WITH 4 #4 REBAR 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.



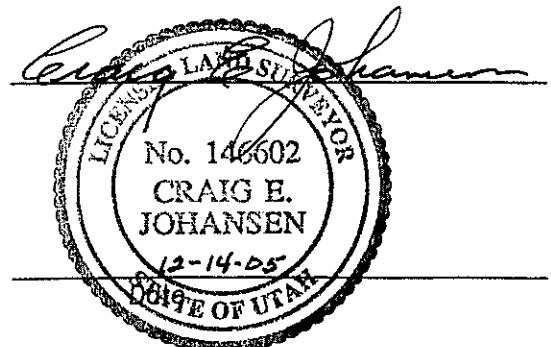
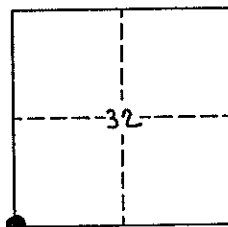
Certification:

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: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05																								
Contacts Phone (435) 381-2523																																
Control Station																																
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																								
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> 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="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 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 4.692 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)		2 0 0 1 4 0 W C		Description Witness Corner to W 1/4 corner Sec. 32																												
Occupation time		PDOP Best						RMS Best																								
Number of Measurements 60		PDOP Worst 2.3						RMS Worst 16.7																								
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 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 1710200140 WC

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-14-05

County Reference No. 1710200140 WC

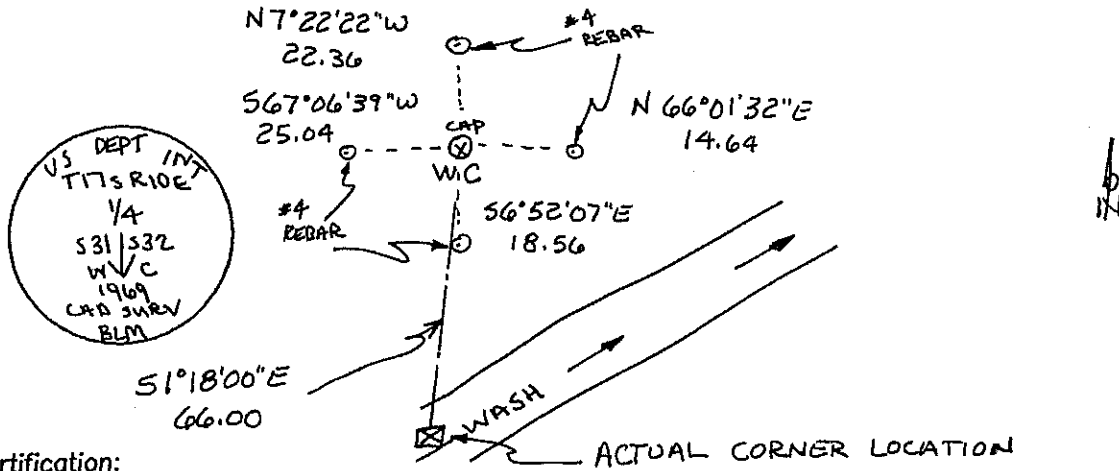
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other WITNESS CORNER

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 6" 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.



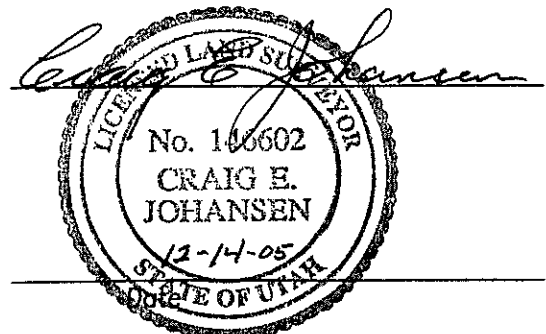
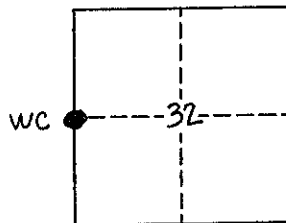
Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/08/05				
Contacts Phone (435) 381-2523												
Control Station												
Name ELM GPS 12		Type COR HARN TRI Other EMERY COUNTY						Accuracy Order				
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 Nad83 (1994) WGS84 Local						State UTAH 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 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" M		3" M		Ave 4.718 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 (RTK) FAST STATIC STATIC OTHER												
First Observation												
Station Name (M1)		2 0 0 2 0 0		Description SW corner Sec. 29								
Occupation time		PDOP Best				RMS Best						
Number of Measurements 60		PDOP Worst 2.3				RMS Worst 14.7						
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 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 1710200200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-8-05

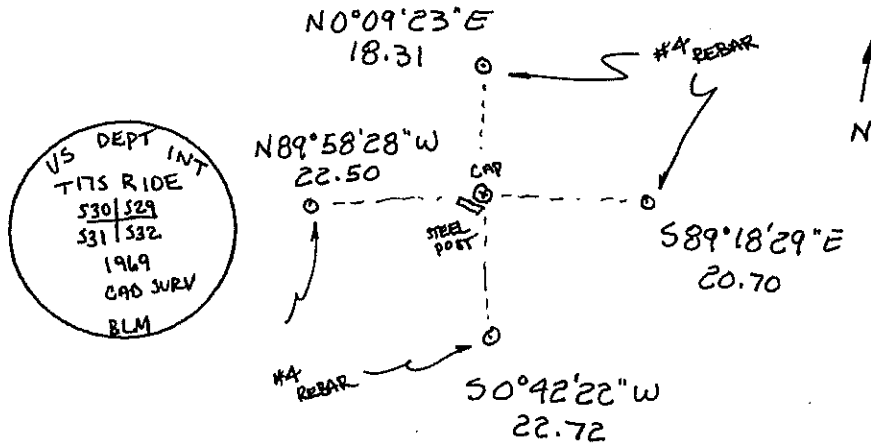
County Reference No. 1710200200

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 FENCE POST 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

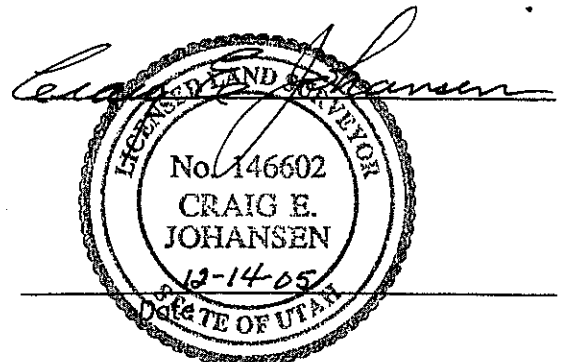
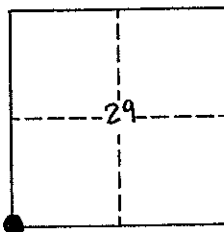
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17S

Range: 10E



EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-14-05

County Reference No. 171D 20024D

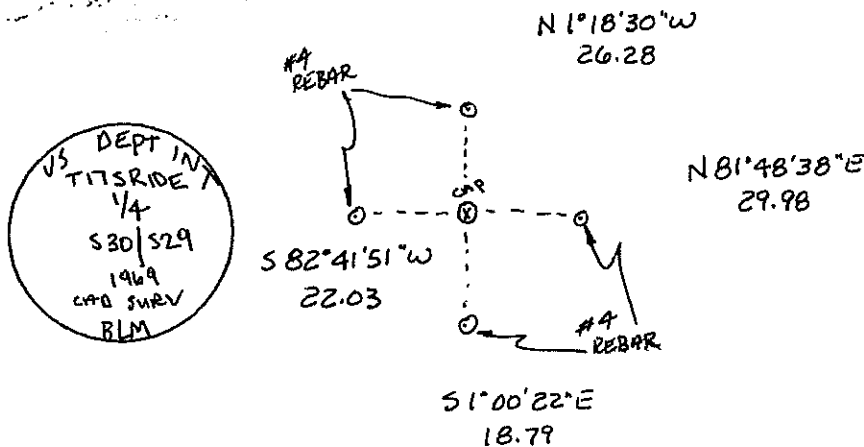
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 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.



Certification:

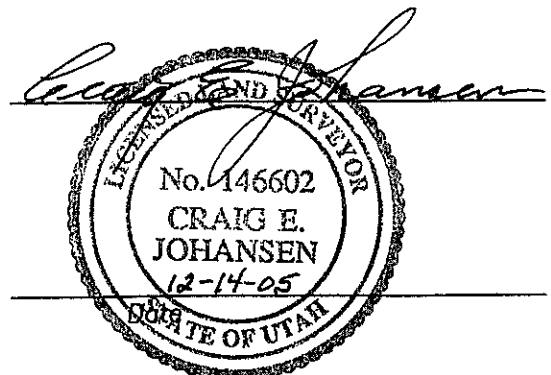
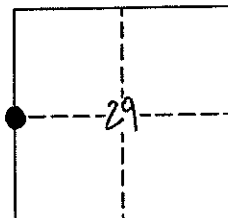
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US		
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05						
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 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 <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 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		4.692 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)		2 0 0 2 6 0		Description N 1/16 corner Sec. 30 - Sec. 29										
Occupation time		PDOP Best				RMS Best								
Number of Measurements 60		PDOP Worst 2.3				RMS Worst 15.4								
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 1710200260

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-14-05

County Reference No. 1710200260

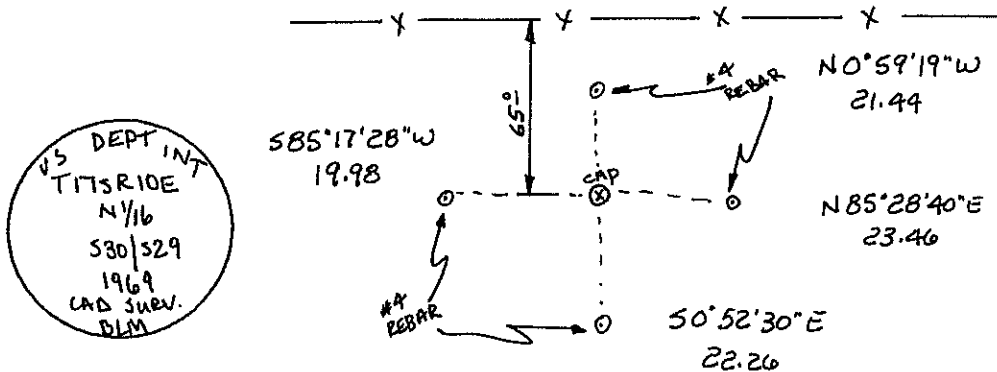
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other 1/16 CORNER

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 6" 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:

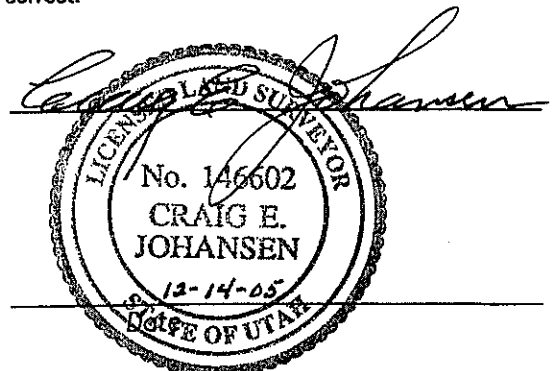
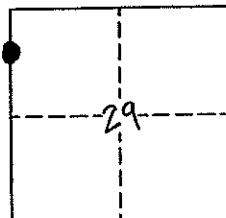
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7			1/2 (2) S	N S	Range 1 0		1/2 (2) E	E W	Section	Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING							Date 11/08/05																						
Contacts Phone (435) 381-2523																															
Control Station																															
Name ELM GPS 12		COR			HARN			TRI			Type Other EMERY COUNTY			Accuracy																	
USGS Quad Name OLSEN RESERVOIR UTAH		Nad27			Nad83			Datum Nad83 (1994)			WGS84			Local																	
														Order UTAH																	
														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"		M		2"		M		3"		M		Ave 4.718 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		3		0		0		Description NW corner Sec. 29																	
Occupation time		PDOP Best				RMS Best																									
Number of Measurements 60		PDOP Worst 1.9				RMS Worst 11.1																									
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 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 1710200300

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-8-05

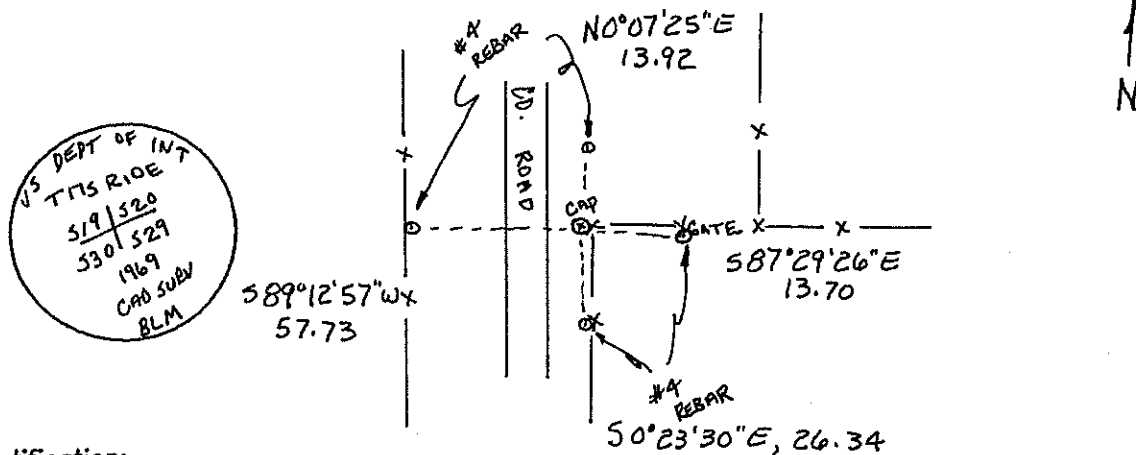
County Reference No. 1710200300

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

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

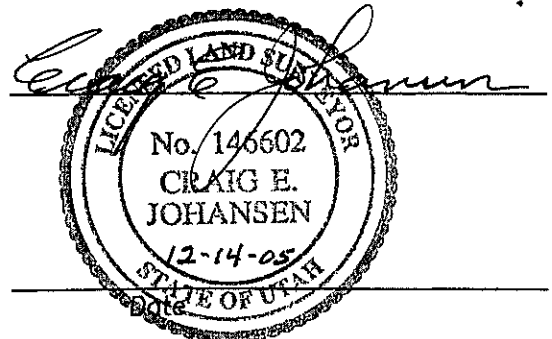
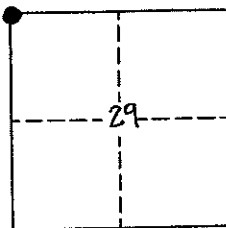
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)				Township T 1 7			½ N (2) S		Range 1 0		½ E (2) W		Section		Meridian (SL) US																	
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/08/05																						
Contacts Phone (435) 381-2523																																
Control Station																																
Name ELM GPS 12				Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																						
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <input checked="" type="checkbox"/> 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="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter				Coordinate Type State Plane <input checked="" type="checkbox"/> UTM				Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South				Vertical Datum NGVD29 <input type="checkbox"/> NAVD88 <input checked="" type="checkbox"/>				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="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> 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 3.4		RMS Worst 42														
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 1710240100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-08-05

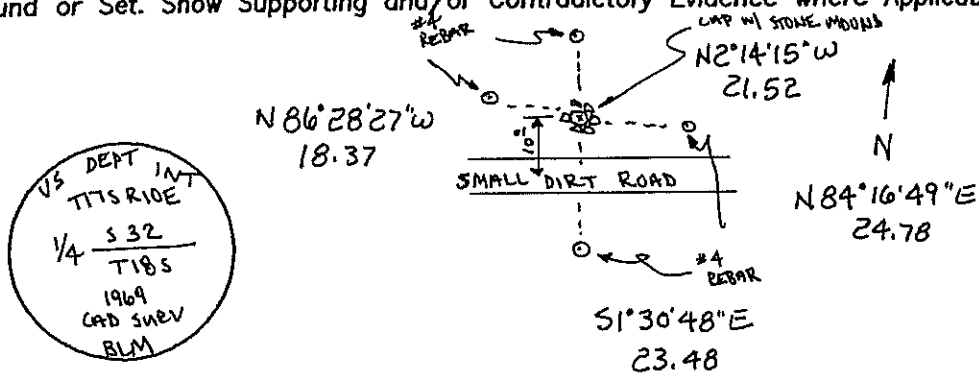
County Reference No. 1710240100

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

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP 9" ABOVE GROUND LEVEL WITH A STONE MOUND

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.



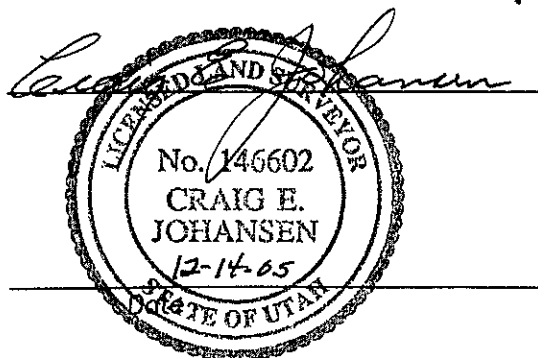
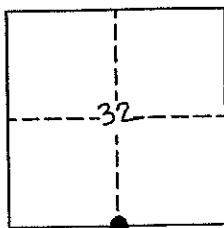
Certification:

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: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>				Township		1/2 (2)		N S		Range		1/2 (2)		E W		Section		Meridian														
				T	I	7			S	1	0			E			(SL) US															
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING								Date 11/08/05																				
Contacts Phone (435) 381-2523																																
Control Station																																
Name ELM GPS 12				Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY								Accuracy Order																				
USGS Quad Name OLSEN RESERVOIR UTAH				Datum Nad27 Nad83 <input checked="" type="checkbox"/> 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="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" 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="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> OTHER																																
First Observation																																
Station Name (M1)				2 4 0 2 0 0				Description S 1/4 corner Sec. 29																								
Occupation time				PDOP Best				RMS Best																								
Number of Measurements 60				PDOP Worst 2.0				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 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 1710240200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-8-05

County Reference No. 1710240200

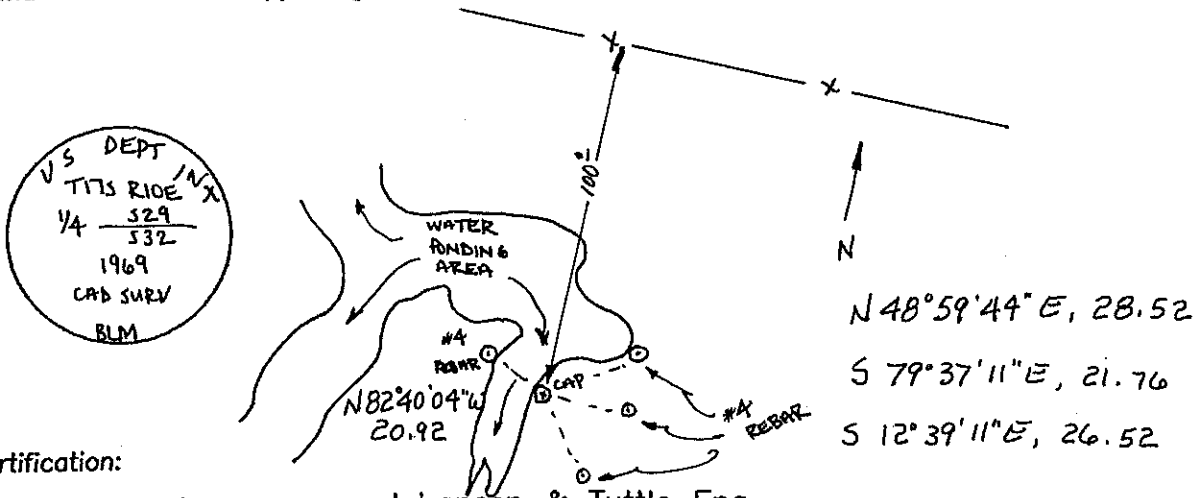
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP 14" 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:

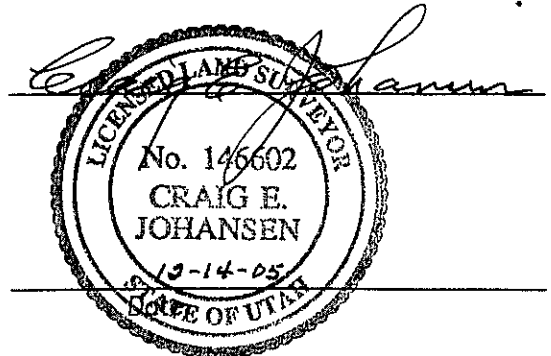
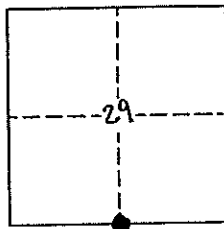
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township			½ (2)	N S	Range			½ (2)	E W	Section			Meridian																
		T	1	7		S	1	0			E				(SL)	US															
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING							Date 11/15/05																						
Contacts Phone (435) 381-2523																															
Control Station																															
Name CLV GPS 11		Type										Accuracy																			
		COR	HARN	TRI	(Other) EMERY COUNTY							Order																			
USGS Quad Name CLEVELAND UTAH		Datum										State UTAH																			
		Nad27	Nad83	(Nad83 1994)	WGS84	Local	County EMERY																								
Latitude								Longitude																							
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8
Northing								Easting																							
6	9	3	6	4	6	8	.	5	7								1	8	3	1	3	7	2	.	4	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			1735.93 M			FT			Geoid Height			M			5752.63 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 4.587 Feet M										
Session End			1"			M			2 nd			M			3 rd			M			Ave M										
Rover Receiver																															
Type TRIMBLE				Model 5800				Serial Number																							
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)			2			4			0			3			0			0			Description N 1/4 corner Sec. 29										
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.9				RMS Worst 19.7																							
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 / 3½ 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 1710240300

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710240300

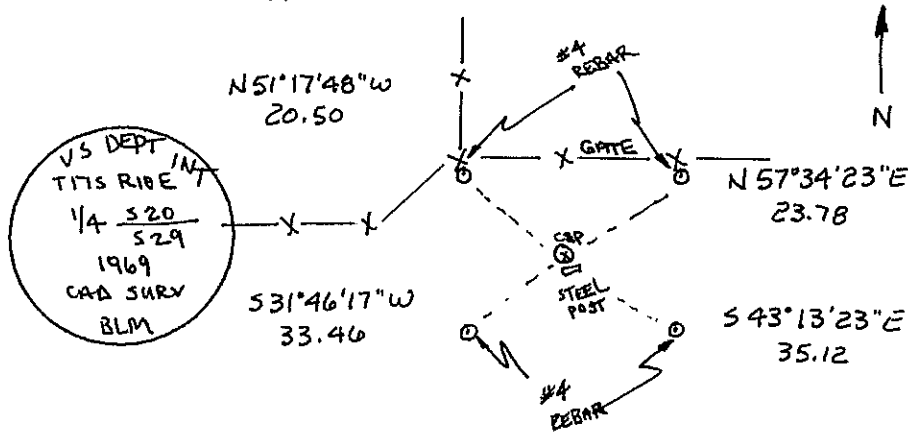
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP BURIED 3" UNDERGROUND

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: SET 4 #4 REBAR AS SHOWN BELOW
 DROVE A STEEL FENCEPOST ALONGSIDE CAP

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.



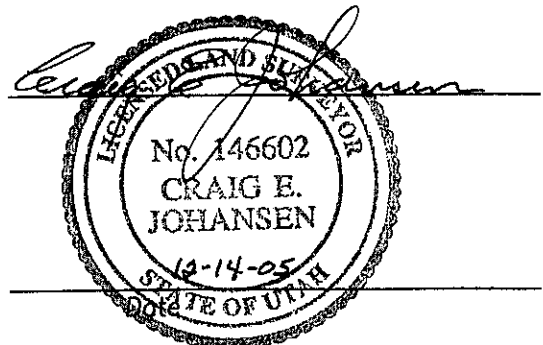
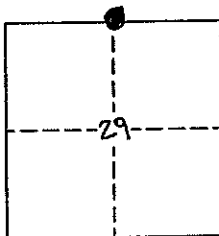
Certification:

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		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 11/14/05			
Contacts Phone (435) 381-2523												
Control Station												
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY							Accuracy Order			
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local							State UTAH 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 type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter		Coordinate Type State Plane <input type="checkbox"/> UTM										
Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South		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 nd M 3 rd M		Ave 4.692 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="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> 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 1.8				RMS Worst 21.7						
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 1710300100

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-14-05

County Reference No. 171030D10D

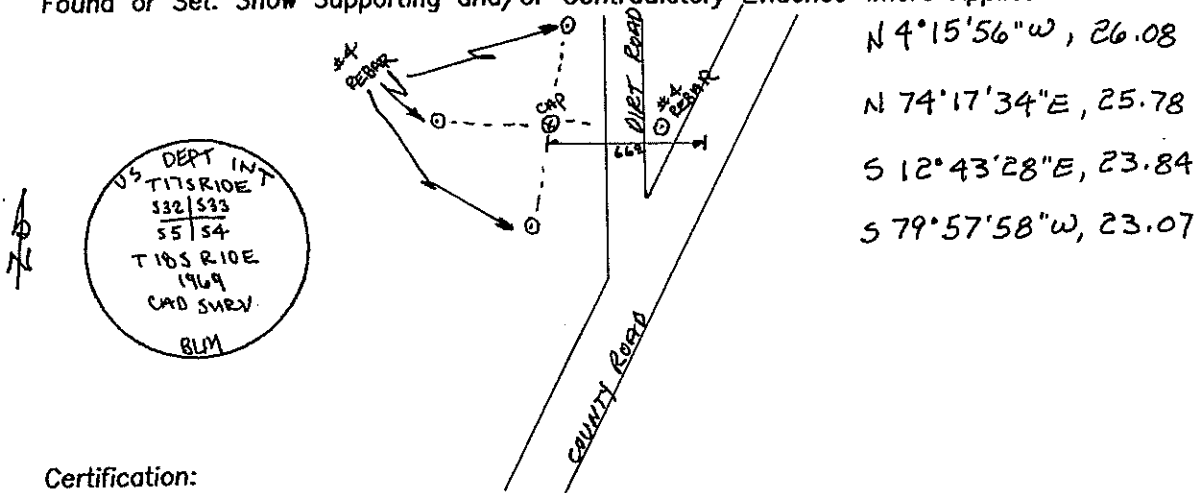
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

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

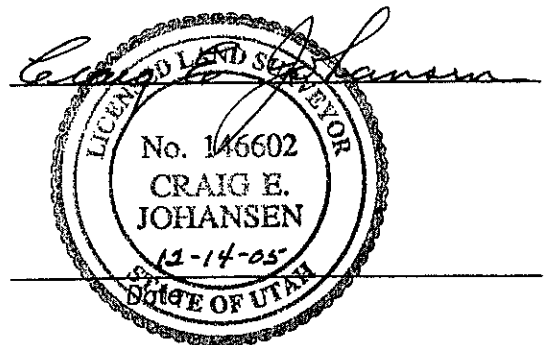
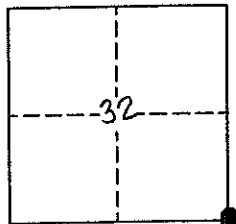
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)				Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US			
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05							
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 type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter <input type="checkbox"/>				Coordinate Type State Plane <input checked="" 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				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 4.692 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 1 4 0				Description E 1/4 corner Sec. 32													
Occupation time				PDOP Best				RMS Best									
Number of Measurements 60				PDOP Worst 1.6				RMS Worst 20.2									
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 1710300140

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-14-05

County Reference No. 17
~~10300140~~

Type of Monument: _____ Section Corner
 _____ Bench Mark

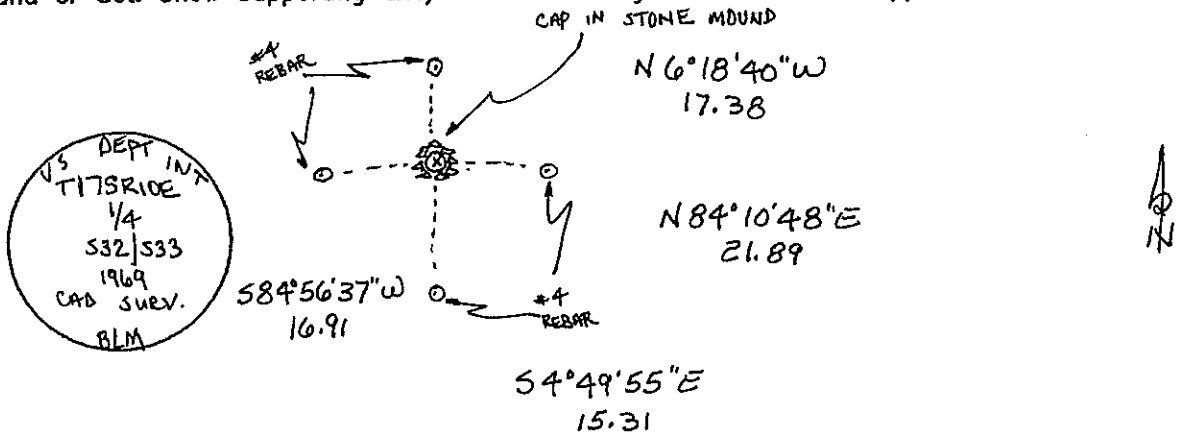
Quarter Corner
 _____ Other _____

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

1969 BLM BRASS CAP STANDING LOOSELY 24" ABOVE GROUND LEVEL WITH A STONE MOUND SURROUNDING.

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.

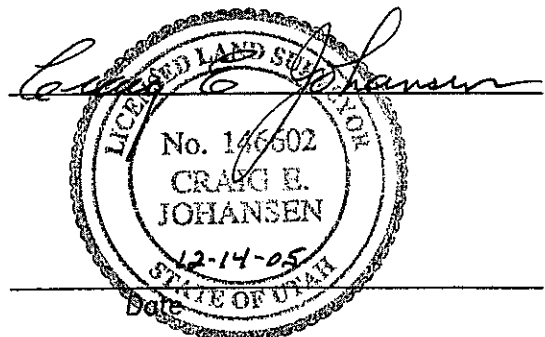
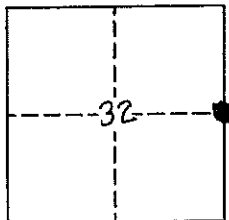


Certification:

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: S17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/08/05																							
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																							
		COR	HARN	TRI	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		(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 4.718 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		(RTK)		FAST STATIC		STATIC		OTHER																							
First Observation																															
Station Name (M1)		3 0 0 2 0 0		Description SE corner Sec. 29																											
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.9				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 1710300200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710300200

Type of Monument: Section Corner
 Bench Mark

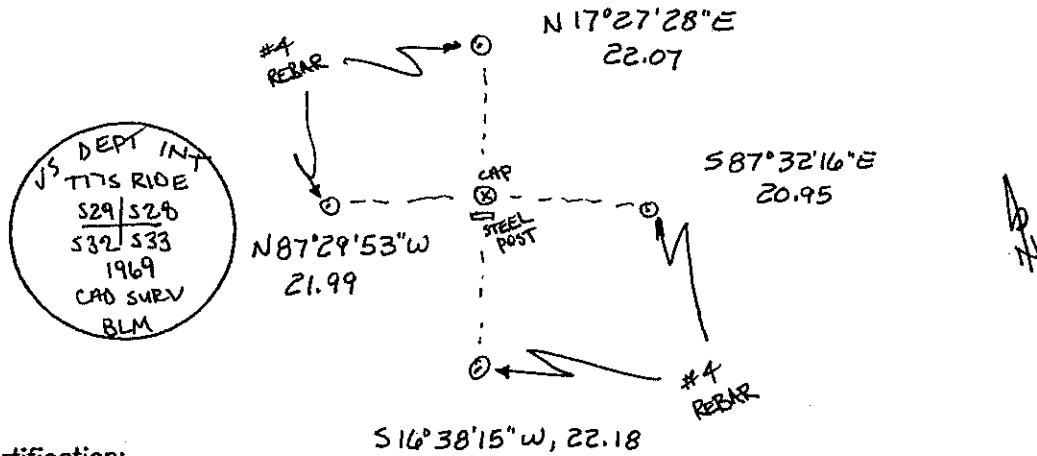
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 8" 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 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

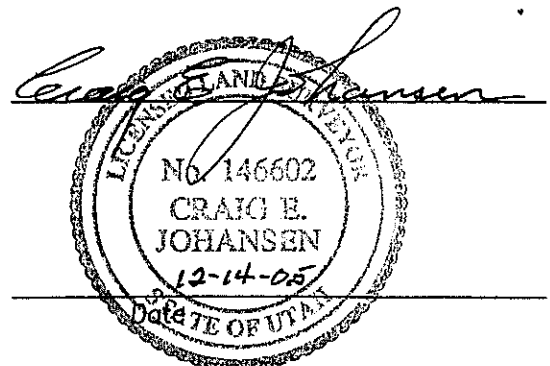
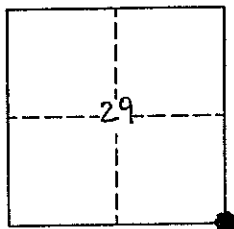
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7		1/2 (2) S	N S	Range 1 0		1/2 (2) W	E W	Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/09/05																								
Contacts Phone (435) 381-2523																																
Control Station																																
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																								
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> 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="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"		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="checkbox"/> RTK		<input type="checkbox"/> FAST STATIC		<input type="checkbox"/> STATIC		<input type="checkbox"/> OTHER																								
First Observation																																
Station Name (M1)		3	0	0	2	2	0	Description S 1/16 corner Sec. 29 - Sec 28																								
Occupation time				PDOP Best				RMS Best																								
Number of Measurements				60				PDOP Worst				2.0				RMS Worst				16.8												
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 / 3/4 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 1710300220

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

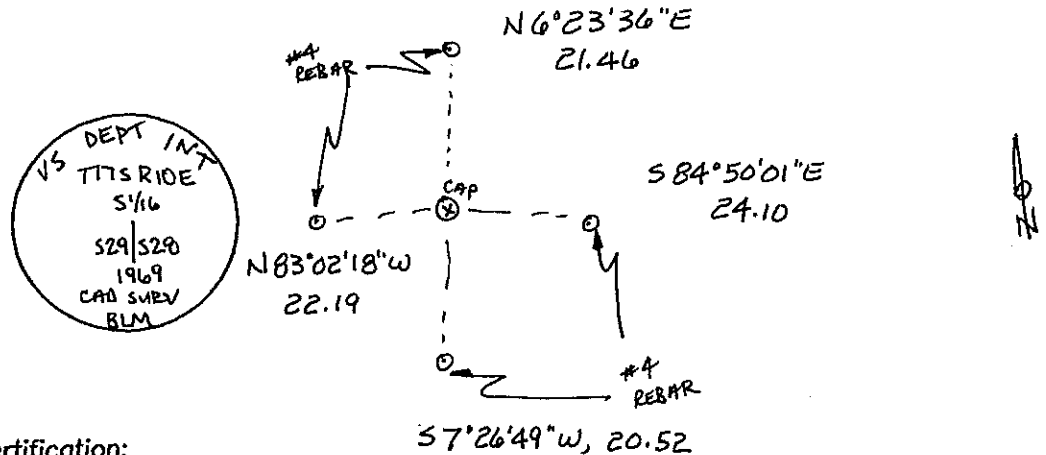
County Reference No. 1710300220

Type of Monument: Section Corner Quarter Corner
 Bench Mark ✓ Other 1/16 CORNER

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

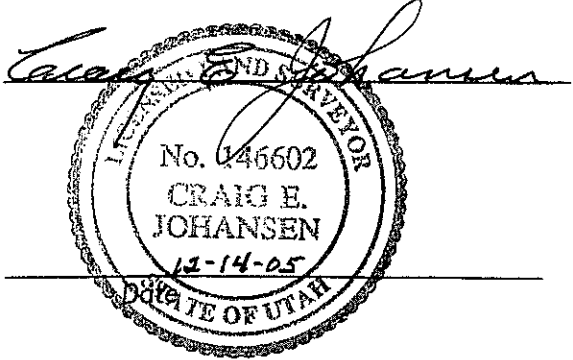
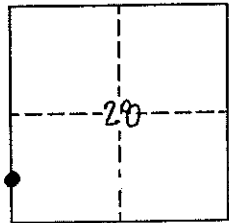


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US	
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/09/05					
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 type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter <input type="checkbox"/>		Coordinate Type State Plane <input checked="" 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		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 4.718 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 2 4 0		Description W 1/4 corner Sec. 28											
Occupation time		PDOP Best				RMS Best							
Number of Measurements 60		PDOP Worst 2.6				RMS Worst 18.2							
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 1710300240

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

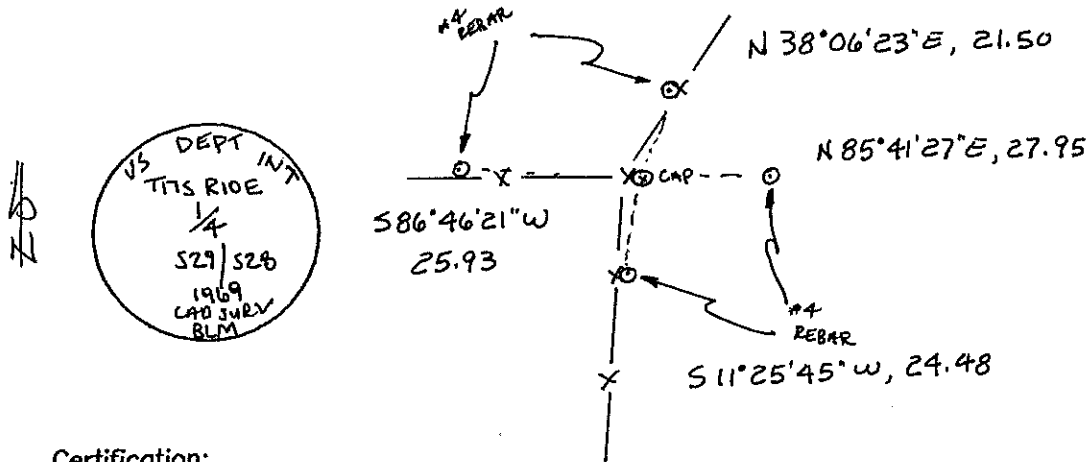
County Reference No. 1710300240

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

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP 10" 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.

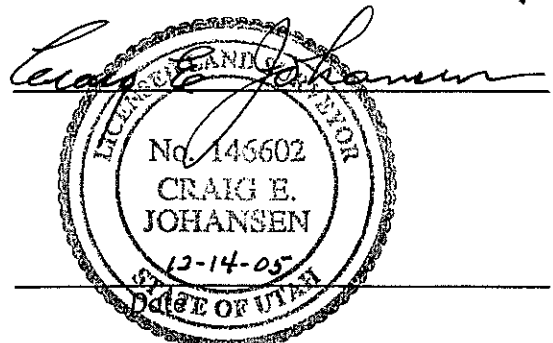
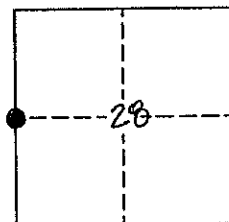


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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: 28
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7		$\frac{1}{2}$ (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 11/14/05																									
Contacts Phone (435) 381-2523																																	
Control Station																																	
Name ELM GPS 12		Type COR HARN TRI Other EMERY COUNTY						Accuracy Order																									
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 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 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" M		3" M		Ave		4.692 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 RTK FAST STATIC STATIC OTHER																																	
First Observation																																	
Station Name (M1)		3 0 0 3 0 0		Description NE corner Sec. 29																													
Occupation time				PDOP Best				RMS Best																									
Number of Measurements 60				PDOP Worst 1.2				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 1710300300

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710300300

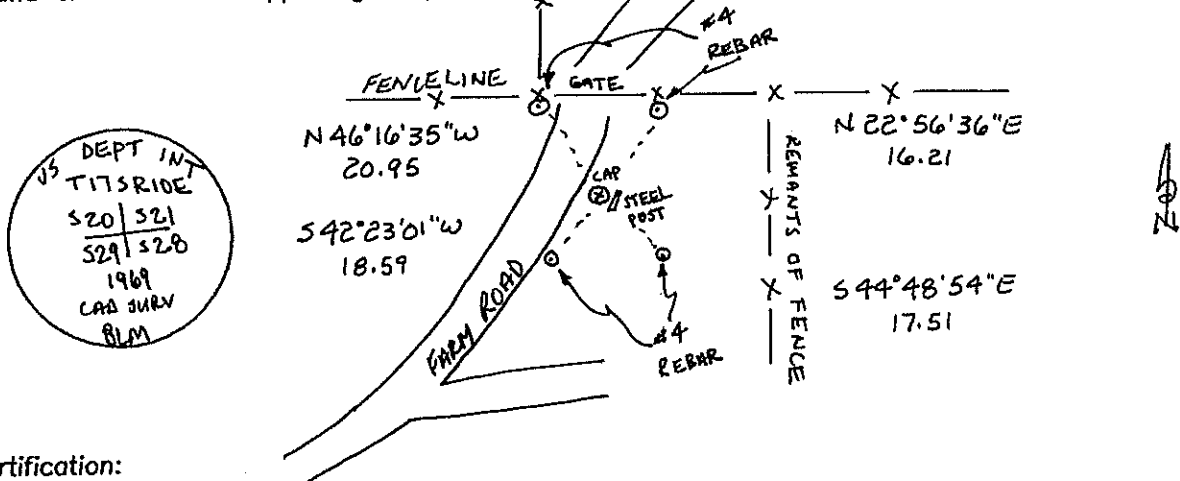
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 2" 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.
 DROVE A STEEL FENCE POST ALONGSIDE CAP.

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.

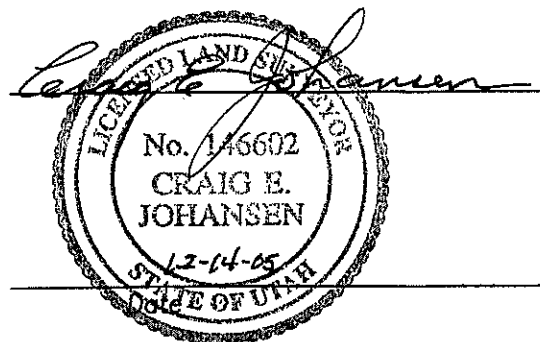
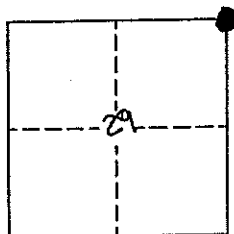


Certification:

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: 29
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US	
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/08/05					
Contacts Phone (435) 381-2523													
Control Station													
Name ELM GPS 12		Type COR HARN TRI (Other) EMERY COUNTY						Accuracy Order					
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 (Nad83 (1994)) WGS84 Local						State UTAH					
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" 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 (RTK) FAST STATIC STATIC OTHER													
First Observation													
Station Name (M1)		3 2 0 2 0 0		Description W 1/16 corner Sec. 28 / Sec. 33									
Occupation time				PDOP Best				RMS Best					
Number of Measurements 60				PDOP Worst 1.7				RMS Worst 15.3					
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 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 1710320200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710320200

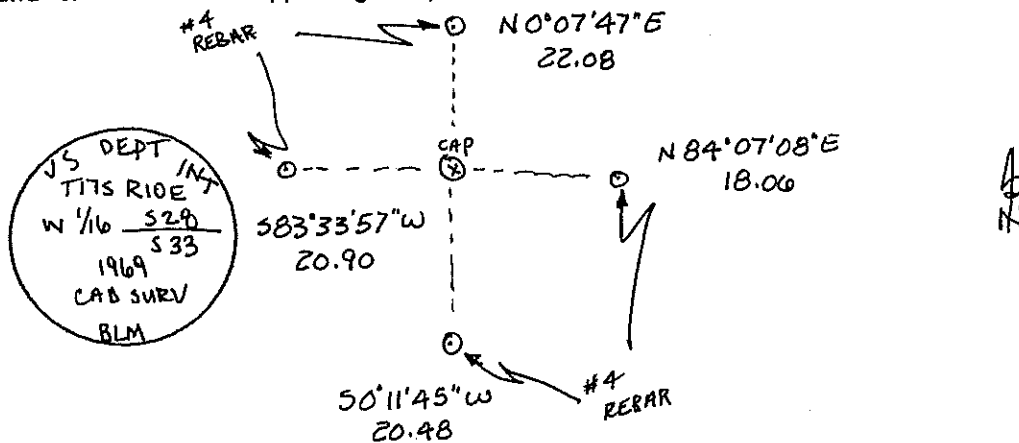
Type of Monument: Section Corner
 Bench Mark

 Quarter Corner
 Other 1/16 CORNER

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

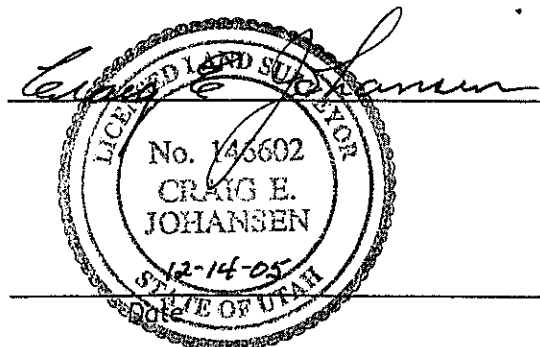
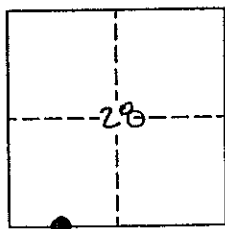
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05																							
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 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			End Time																												
Antenna Height																															
Session Beginning		1" M		2" M		3" M		Ave 4.692 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) 3 4 0 2 0 0			Description S 1/4 corner Sec. 28																												
Occupation time			PDOP Best			RMS Best																									
Number of Measurements 60			PDOP Worst 2.3			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 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 1710340200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710340200

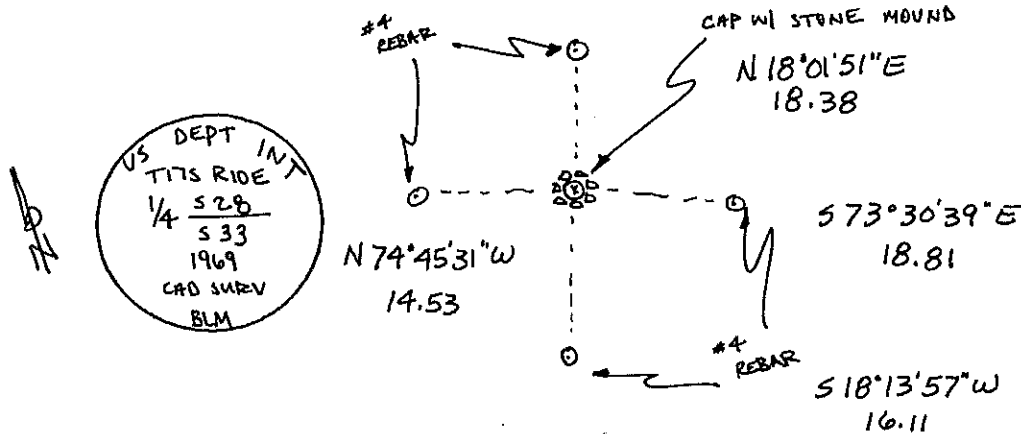
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 10" ABOVE GROUND LEVEL WITH A STONE MOUND

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

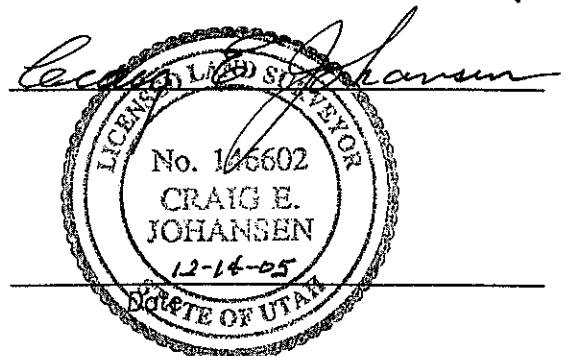
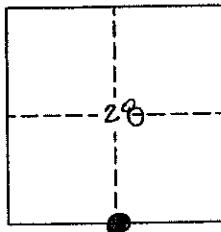
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)			Township T 1 7			Range 1 0		Section		Meridian (SL) US																					
Contacts Name Lee M. Swasey			Source Agency JOHANSEN & TUTTLE ENGINEERING					Date 11/15/05																							
Contacts Phone (435) 381-2523																															
Control Station																															
Name ELM GPS 12			Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY					Accuracy Order																							
USGS Quad Name OLSEN RESERVOIR UTAH			Datum Nad27 Nad83 <input checked="" type="checkbox"/> 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="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter			Coordinate Type State Plane <input checked="" type="checkbox"/> UTM			Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South			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 nd M		3 rd M		Ave		4.587 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="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> OTHER																															
First Observation																															
Station Name (M1)			Description N 1/4 corner Sec. 28																												
Occupation time			PDOP Best			RMS Best																									
Number of Measurements 60			PDOP Worst 1.3			RMS Worst 16.9																									
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 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 1710340300

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710340300

Type of Monument: _____ Section Corner
 _____ Bench Mark

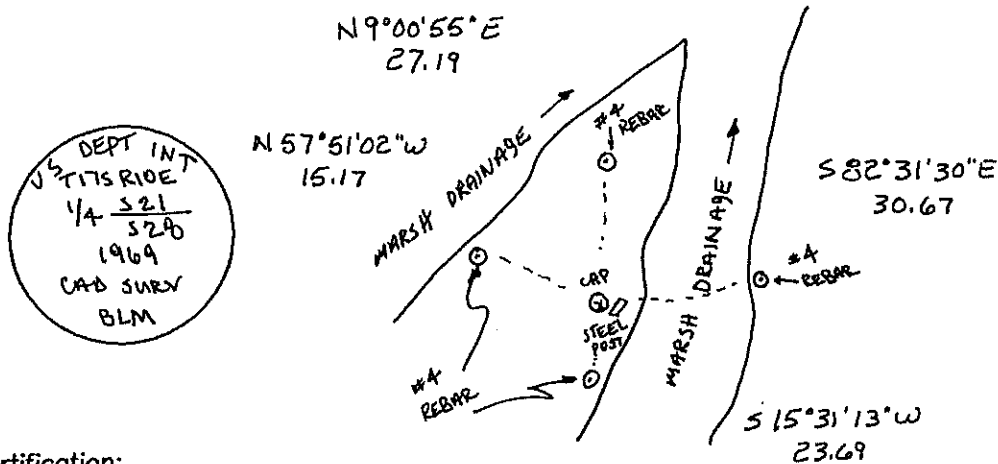
Quarter Corner
 _____ Other _____

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

1969 BLM BRASS CAP 6" ABOVE GROUND LEVEL WITH A STEEL FENCE POST DRIVEN ALONG SIDE

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

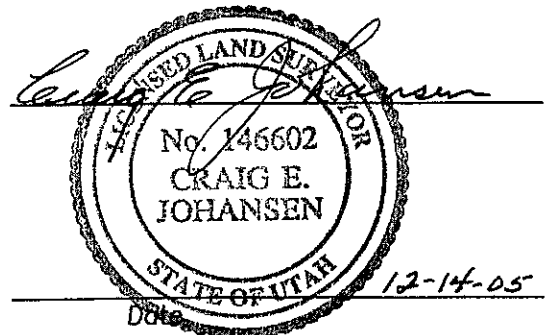
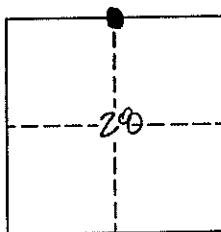
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 29

Township: 17 S

Range: 10 E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05																							
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 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"		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		FAST STATIC		STATIC		OTHER																							
First Observation																															
Station Name (M1)		4		0		0		2		0		0		Description SE corner Sec. 28																	
Occupation time		PDOP Best				RMS Best																									
Number of Measurements 60		PDOP Worst 2.2				RMS Worst 25.2																									
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 1710400200

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710400200

Type of Monument: Section Corner
 Bench Mark

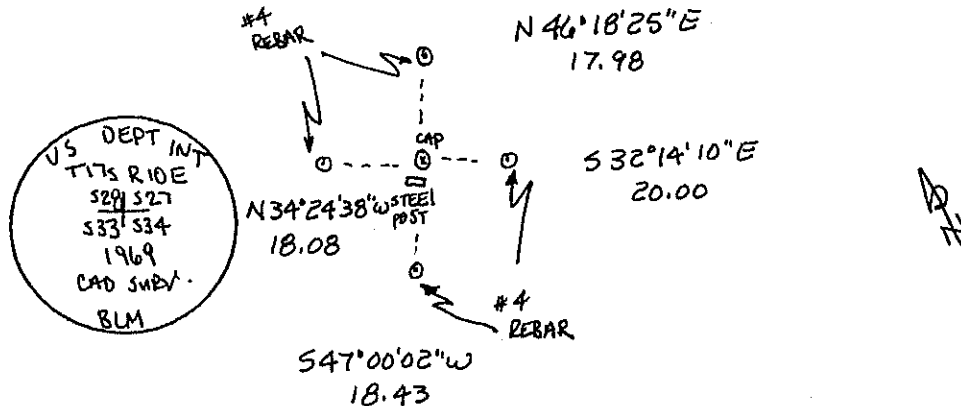
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 8" ABOVE GROUND LEVEL WITH A STEEL FENCE POST LYING 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. RE-SET STEEL FENCE POST ALONGSIDE CAP.

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:

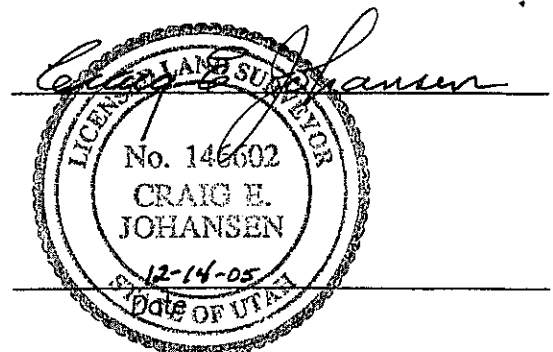
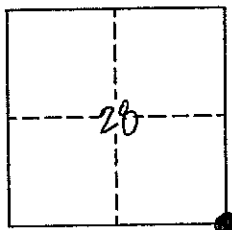
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 28
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/09/05																							
Contacts Phone (435) 381-2523																															
Control Station																															
Name ELM GPS 12		COR		HARN		TRI		Type <input checked="" type="checkbox"/> Other EMERY COUNTY				Accuracy Order																			
USGS Quad Name OLSEN RESERVOIR UTAH		Nad27		Nad83		Datum <input checked="" type="checkbox"/> 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="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 4.718 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 <input checked="" type="checkbox"/> RTK <input type="checkbox"/> FAST STATIC <input type="checkbox"/> STATIC <input type="checkbox"/> OTHER																															
First Observation																															
Station Name (M1)		4		0	0	2	4	0		Description E 1/4 corner Sec. 28																					
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 4.1				RMS Worst 13.3																							
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 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 1710400240

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710400240

Type of Monument: Section Corner
 Bench Mark

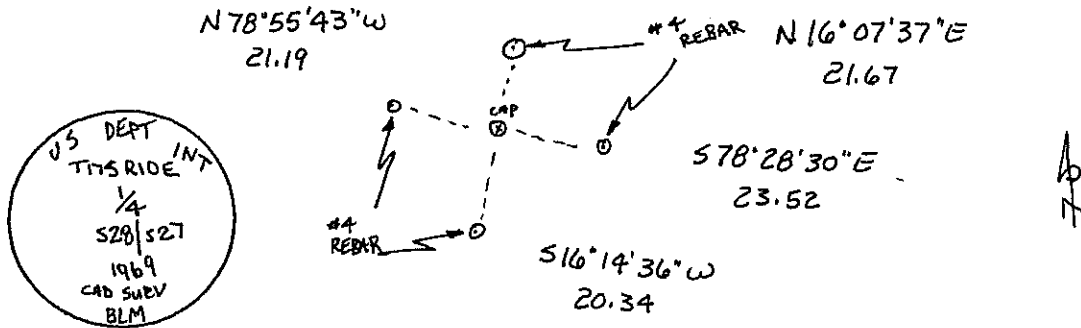
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 10" 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

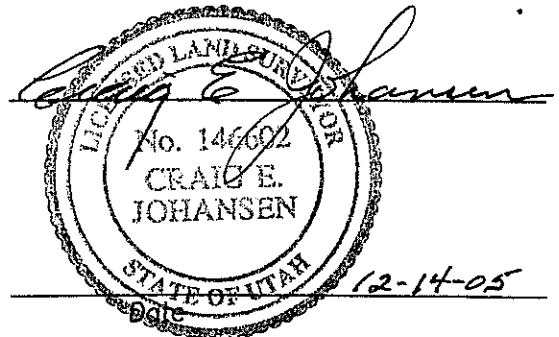
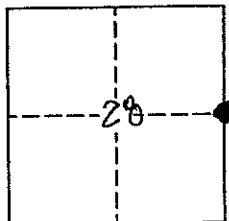
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 28

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/09/05				
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 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 type="radio"/> International Foot <input checked="" 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 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		4.718 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)		4 0 0 2 6 0		Description N 1/16 corner Sec. 28 - Sec. 27								
Occupation time		PDOP Best				RMS Best						
Number of Measurements 60		PDOP Worst 3.8				RMS Worst 14.7						
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 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 1710400260

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710400260

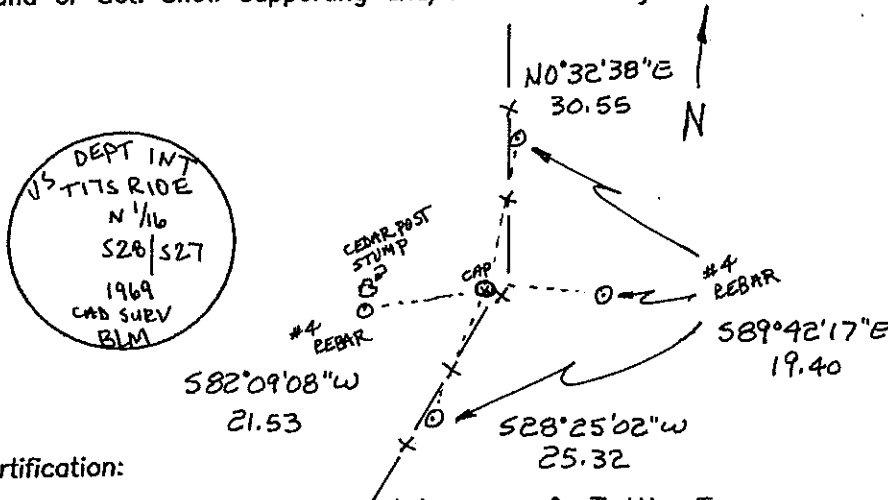
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other 1/16 CORNER

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 6" ABOVE GROUNDLEVEL

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

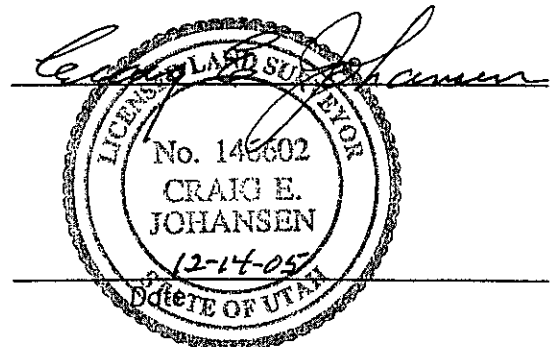
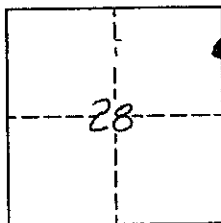
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 28

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/14/05																							
Contacts Phone (435) 381-2523																															
Control Station																															
Name ELM GPS 12		Type COR HARN TRI Other EMERY COUNTY						Accuracy Order																							
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 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		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 4.718 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 (RTK) FAST STATIC STATIC OTHER																															
First Observation																															
Station Name (M1)		4		0		0		3		0		0		Description NE corner Sec. 28																	
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.5				RMS Worst 17.3																							
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 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 1710400300

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-09-05

County Reference No. 1710400300

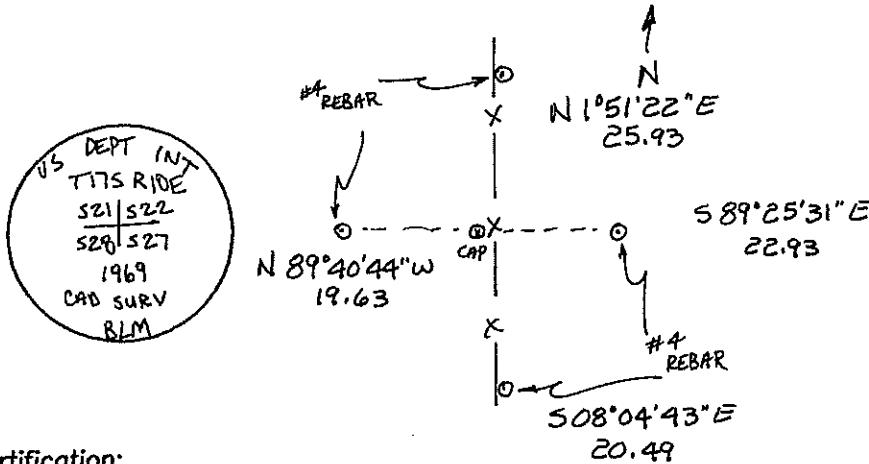
Type of Monument: Section Corner _____ Quarter Corner
 _____ Bench Mark _____ Other _____

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

1969 BLM BRASS CAP 10" 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

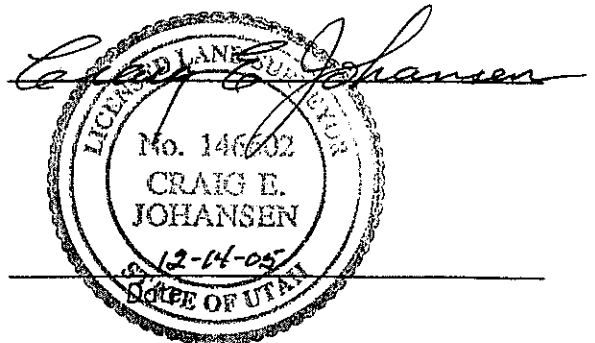
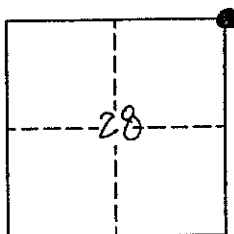
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 28

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05				
Contacts Phone (435) 381-2523												
Control Station												
Name CLV GPS 11		Type COR HARN TRI <u>Other</u> EMERY COUNTY						Accuracy Order				
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <u>Nad83 (1994)</u> WGS84 Local						State UTAH County EMERY				
Latitude N 3 9 - 2 1 - 3 7 . 1 7 4 2 6 1						Longitude W 1 1 0 - 4 9 - 2 8 . 6 7 6 1 8						
Northing 6 9 3 6 4 6 8 . 5 7						Easting 1 8 3 1 3 7 2 . 4 6						
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 1735.93 M		FT		Geoid Height M		5752.63 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		4.587 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)		4 0 0 4 0 0		Description SW corner Sec. 15								
Occupation time			PDOP Best				RMS Best					
Number of Measurements 60			PDOP Worst 1.8				RMS Worst 14.5					
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 1/2 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 1710400400

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710400400

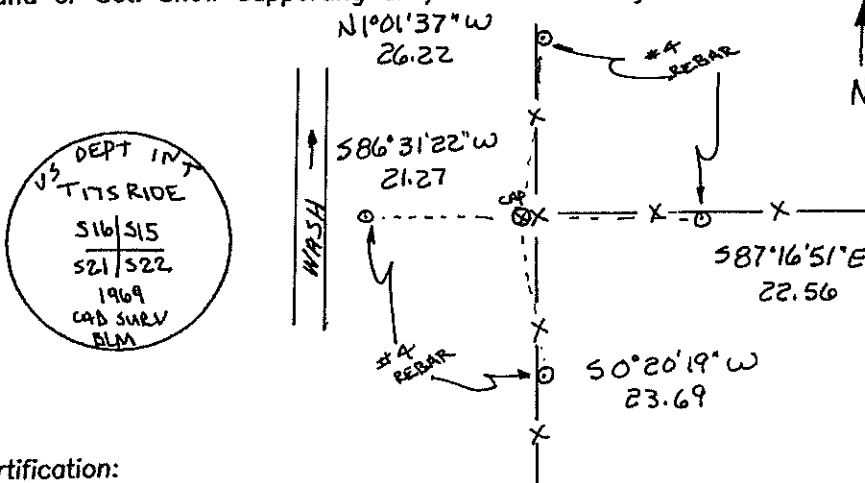
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

Your Description and Observation of Monument Found (Be Specific):
 1969 BLM BRASS CAP 1" 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:

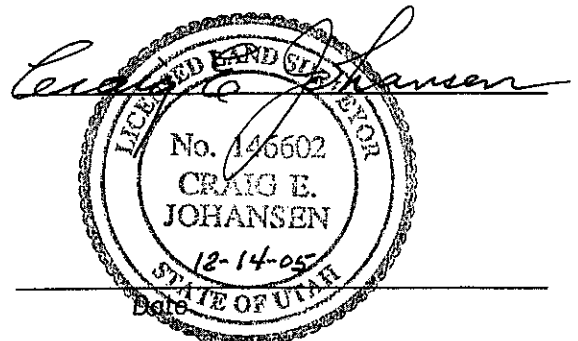
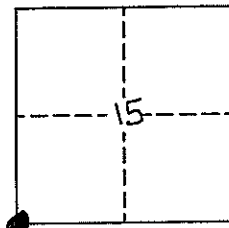
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 15
 Township: 17s
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																								
Contacts Phone (435) 381-2523																																
Control Station																																
Name CLV GPS 11		Type COR HARN TRI <input checked="" type="radio"/> Other EMERY COUNTY						Accuracy Order																								
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																								
Latitude						Longitude																										
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8	
Northing						Easting																										
6	9	3	6	4	6	8	.	5	7							1	8	3	1	3	7	2	.	4	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 1735.93 M			Geoid Height 5752.63 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			End Time																													
Antenna Height																																
Session Beginning		1 st		M		2 nd		M		3 rd		M		Ave 4.587 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)			4 0 0 4 4 0			Description W 1/4 corner Sec. 15																										
Occupation time			PDOP Best			RMS Best																										
Number of Measurements 60			PDOP Worst 3.4			RMS Worst 13.2																										
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 1/2 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 1710400440

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 171040044D

Type of Monument: Section Corner
 Bench Mark

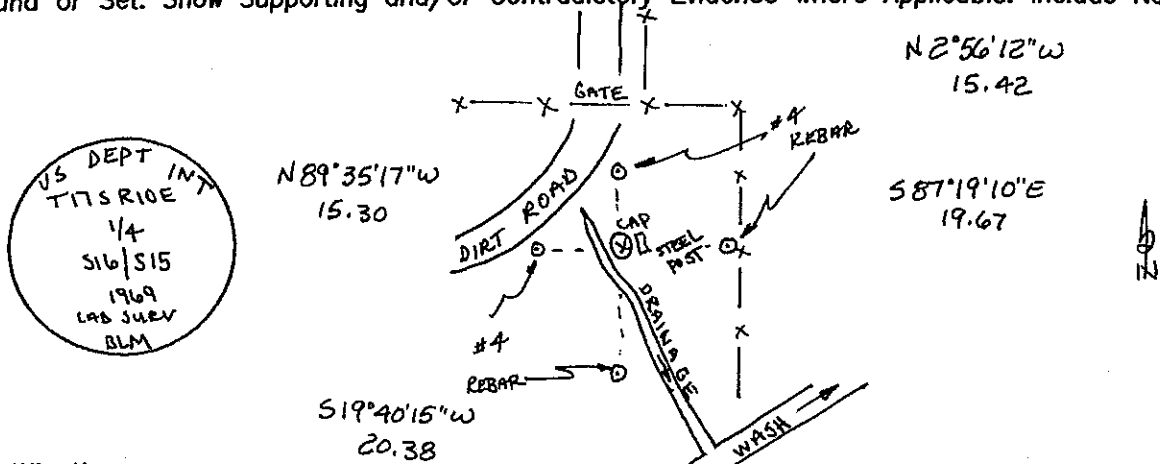
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 8" ABOVE GROUND LEVEL WITH A STEEL FENCE POST LYING 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
 RE-SET STEEL FENCE POST ALONGSIDE

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:

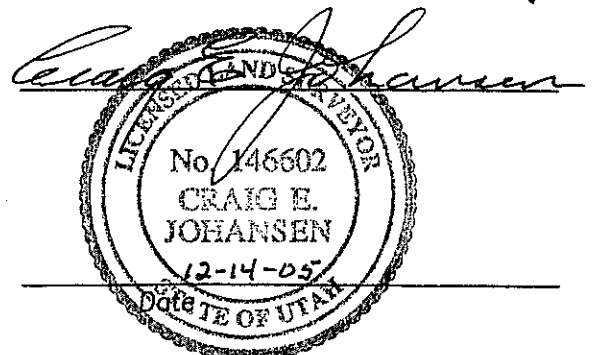
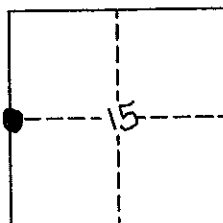
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian SL US		
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05						
Contacts Phone (435) 381-2523														
Control Station														
Name CLV GPS 11		Type COR HARN TRI <input checked="" type="radio"/> Other EMERY COUNTY							Accuracy Order					
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <input checked="" type="radio"/> Nad83 (1994) WGS84 Local							State UTAH County EMERY					
Latitude N 3 9 - 2 1 - 3 7 . 1 7 4 2 6 1						Longitude W 1 1 0 - 4 9 - 2 8 . 6 7 6 1 8								
Northing 6 9 3 6 4 6 8 . 5 7						Easting 1 8 3 1 3 7 2 . 4 6								
Units Survey Foot <input checked="" type="radio"/> International Foot <input type="radio"/> Meter		Coordinate Type State Plane <input type="radio"/> UTM		Zone Utah North <input checked="" type="radio"/> Utah Central <input type="radio"/> Utah South		Vertical Datum NGVD29 <input type="radio"/> <input checked="" type="radio"/> NAVD88		Ellipsoid Height 1735.93 M FT					Geoid Height M 5752.63 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 4.587 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)		4 0 0 5 0 0		Description NW corner Sec. 15										
Occupation time		PDOP Best				RMS Best								
Number of Measurements 60		PDOP Worst 2.4				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 1/2 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 1710400500

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710400500

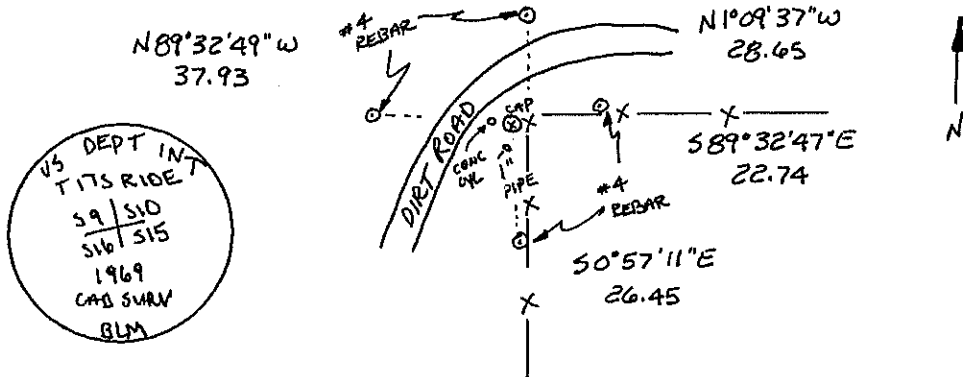
Type of Monument: Section Corner _____ Quarter Corner
 _____ Bench Mark _____ Other _____

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

1969 BLM BRASS CAP 8" ABOVE GROUND LEVEL WITH A 4" DIA. CONCRETE CYLINDER AND A 1" DIA. PIPE MARKED 3A5 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:

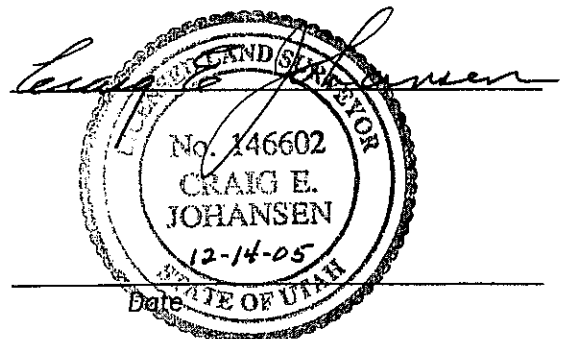
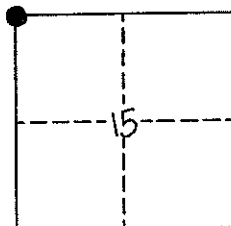
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																					
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																									
Contacts Phone (435) 381-2523																																	
Control Station																																	
Name CLV GPS 11		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																									
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																									
Latitude							Longitude																										
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8		
Northing							Easting																										
6	9	3	6	4	6	8	.	5	7							1	8	3	1	3	7	2	.	4	6								
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		1735.93 M		FT		Geoid Height				M		5752.63 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 4.587 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)		4		2		0		4		0		0		Description W 1/16 corner Sec. 15 / Sec. 22																			
Occupation time		PDOP Best				RMS Best																											
Number of Measurements 60		PDOP Worst 1.9				RMS Worst 18.0																											
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 2 1/2 / 3 1/2 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 1710420400

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710420400

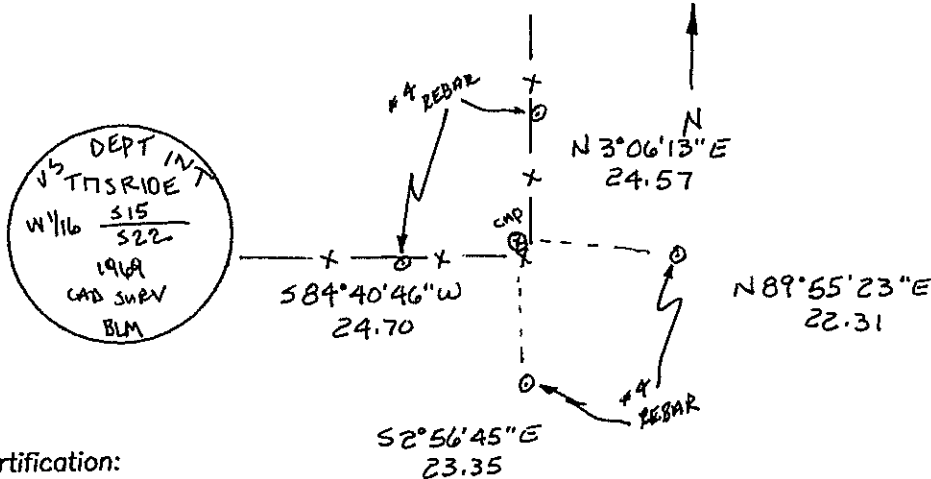
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other 1/16 CORNER

Your Description and Observation of Monument Found (Be Specific):
1969 BLM BRASS CAP 10" 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:

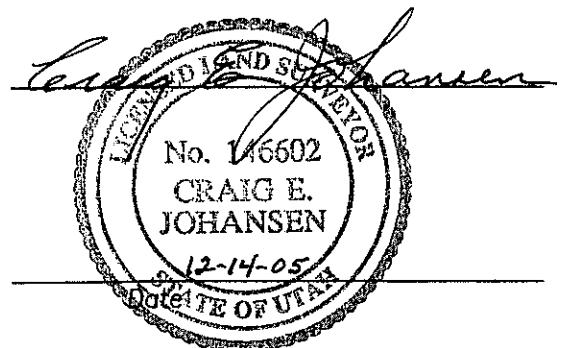
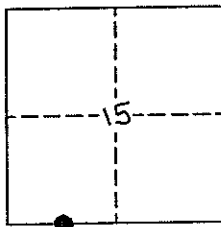
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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

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: 15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)				Township T 1 7		1/2 (2) N S	Range 1 0		1/2 (2) E W	Section		Meridian (SL) US																			
Contacts Name Lee M. Swasey				Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																					
Contacts Phone (435) 381-2523																															
Control Station																															
Name CLV GPS 11				Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																					
USGS Quad Name CLEVELAND UTAH				Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																					
Latitude							Longitude																								
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8
Northing							Easting																								
6	9	3	6	4	6	8	.	5	7							1	8	3	1	3	7	2	.	4	6						
Units Survey Foot <input type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter				Coordinate Type State Plane <input checked="" type="checkbox"/> UTM				Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South				Vertical Datum NGVD29 <input type="checkbox"/> NAVD88 <input checked="" type="checkbox"/>																			
Ellipsoid Height 1735.93 M				FT				Geoid Height M				5752.63 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 4.587 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) 4 2 0 5 0 0				Description W 1/16 corner Sec. 10 / Sec. 15																											
Occupation time				PDOP Best				RMS Best																							
Number of Measurements 60				PDOP Worst 1.5				RMS Worst 12.6																							
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 1/2 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 1710420500

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710420500

Type of Monument: Section Corner
 Bench Mark

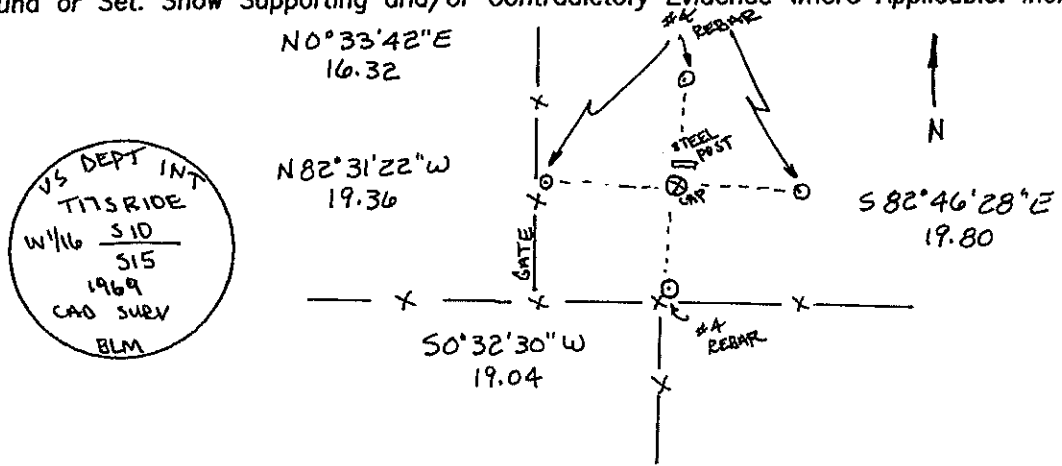
Quarter Corner
 Other 1/16 CORNER

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

1969 BLM BRASS CAP 6" ABOVE GROUND LEVEL WITH A STEEL FENCE POST DRIVEN ALONGS

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:

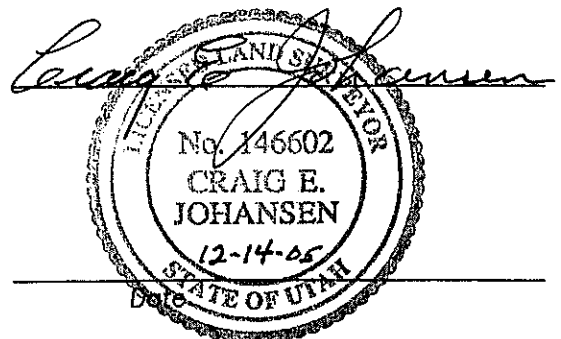
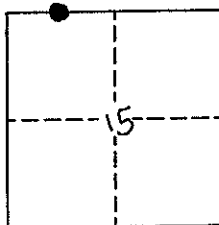
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: .15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																					
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																									
Contacts Phone (435) 381-2523																																	
Control Station																																	
Name CLV GPS 11		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																									
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																									
Latitude							Longitude																										
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8		
Northing							Easting																										
6	9	3	6	4	6	8	.	5	7							1	8	3	1	3	7	2	.	4	6								
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		1735.93 M		FT		Geoid Height		M		5752.63 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		4.587 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="checkbox"/> RTK		FAST STATIC		STATIC		OTHER																									
First Observation																																	
Station Name (M1)		4		4		0		4		0		0		Description S 1/4 corner Sec. 15																			
Occupation time				PDOP Best				RMS Best																									
Number of Measurements 60				PDOP Worst 1.6				RMS Worst 14.1																									
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 2 1/2 / 3 1/2 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 1710440400

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710440400

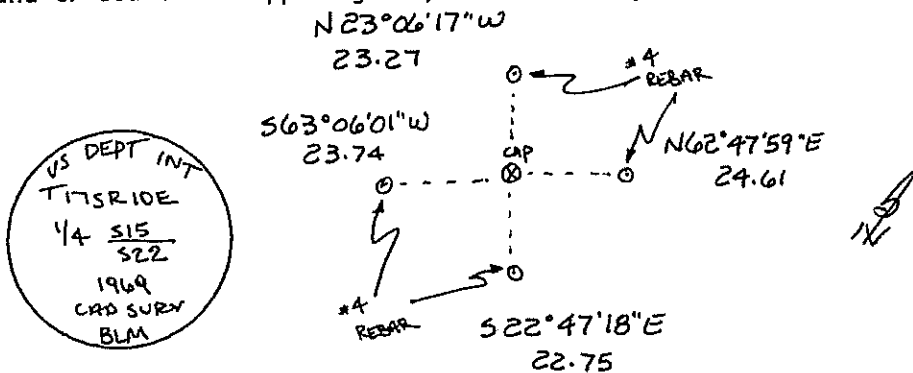
Type of Monument: Section Corner
 Bench Mark

Quarter Corner
 Other _____

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

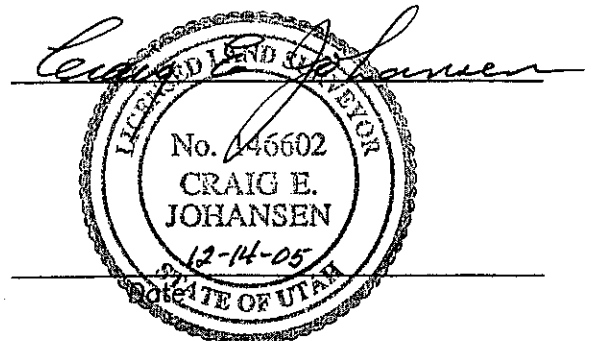
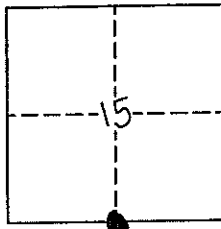


Certification:

Firm name and/or Surveyor: Johansen & Tuttle Eng.
 Address: 90 S. 100 E. Castle Dale, Utah 84513 Phone: (435) 381-2523

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: 15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2) S	N S	Range 1 0		1/2 (2)	E E	Section	Meridian (SL) US
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/29/05			
Contacts Phone (435) 381-2523											
Control Station											
Name ELM GPS 12		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order			
USGS Quad Name OLSEN RESERVOIR UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local						State UTAH 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 type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter		Coordinate Type State Plane <input checked="" type="checkbox"/> UTM				Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South		Vertical Datum NGVD29 <input type="checkbox"/> NAVD88 <input checked="" type="checkbox"/>			
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 4.780 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) 4 4 0 5 0 0		Description S 1/4 corner Sec. 10									
Occupation time		PDOP Best				RMS Best					
Number of Measurements 60		PDOP Worst 4.7				RMS Worst 7.5					
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 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 1710440500

EMERY COUNTY LAND SURVEY MONUMENT RECORD

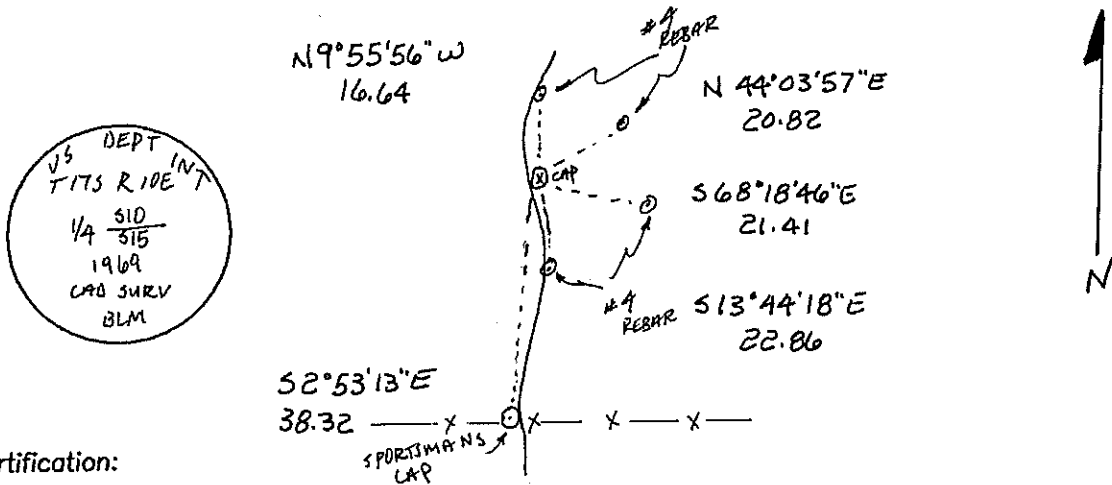
Date of field work: 11-29-05 County Reference No. 440500
~~1710500440~~

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. A SPORTSMAN CAP SETS TO THE SOUTH AS SHOWN

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.



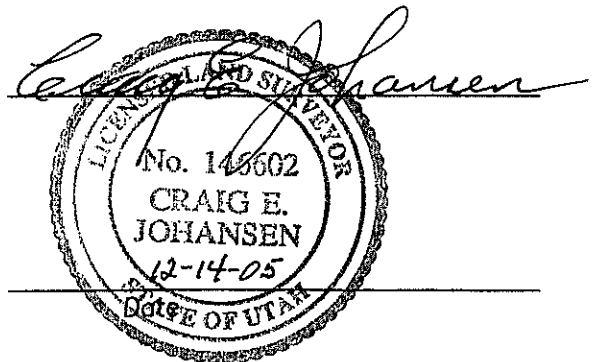
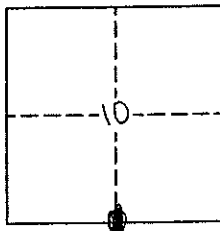
Certification:

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: 10
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E (Meridian Township Range)		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian (SL) US																				
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																								
Contacts Phone (435) 381-2523																																
Control Station																																
Name CLV GPS 11		Type COR HARN TRI <input checked="" type="checkbox"/> Other EMERY COUNTY						Accuracy Order																								
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 <input checked="" type="checkbox"/> Nad83 (1994) WGS84 Local						State UTAH County EMERY																								
Latitude						Longitude																										
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8	
Northing						Easting																										
6	9	3	6	4	6	8	.	5	7							1	8	3	1	3	7	2	.	4	6							
Units Survey Foot <input type="checkbox"/> International Foot <input checked="" type="checkbox"/> Meter						Coordinate Type State Plane <input checked="" type="checkbox"/> UTM																										
Zone Utah North <input type="checkbox"/> Utah Central <input checked="" type="checkbox"/> Utah South						Vertical Datum NGVD29 <input type="checkbox"/> NAVD88 <input checked="" type="checkbox"/>																										
Ellipsoid Height 1735.93 M						Geoid Height 5752.63 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 4.587 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)		5		0	0	4	0	0		Description SE corner Sec. 15																						
Occupation time		PDOP Best				RMS Best																										
Number of Measurements 60		PDOP Worst 1.5				RMS Worst 28.9																										
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 1/2 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 1710500400

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710 500 400

Type of Monument: Section Corner
 Bench Mark

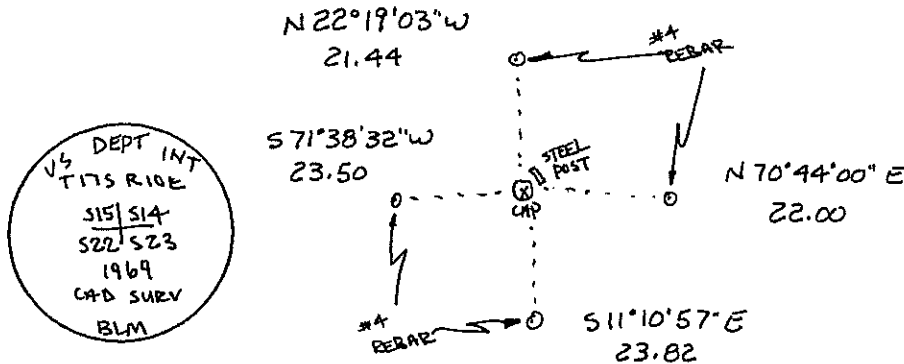
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 8" ABOVE GROUND LEVEL WITH A STEEL FENCE POST DRIVEN ALONG SIDE.

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

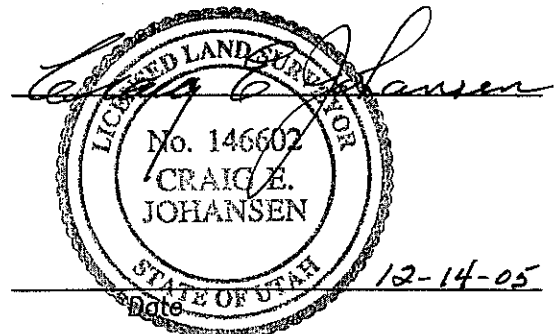
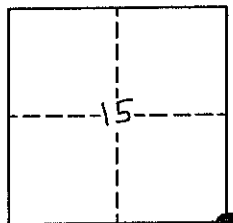
This is to certify that I was in responsible charge of the surveying work described in this record and that to the best of my knowledge the information presented herein is true and correct.

Location Diagram:

Section: 15

Township: 17S

Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township		1/2 (2)	N S	Range		1/2 (2)	E W	Section		Meridian																				
		T	1	7		S	1	0		E			(SL) US																			
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING							Date 12/07/05																							
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 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 4.311 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		0	0	4	4	0		Description E 1/4 corner Sec. 15																						
Occupation time		PDOP Best				RMS Best																										
Number of Measurements 60		PDOP Worst 2.2				RMS Worst 24.1																										
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 2 1/2 / 3/4 2005 ECS				Size				Size																						
Material		Material alum. / alum.				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 1710500440

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 12-10-05

County Reference No. 1710500440

Type of Monument: _____ Section Corner
 _____ Bench Mark

Quarter Corner
 _____ Other _____

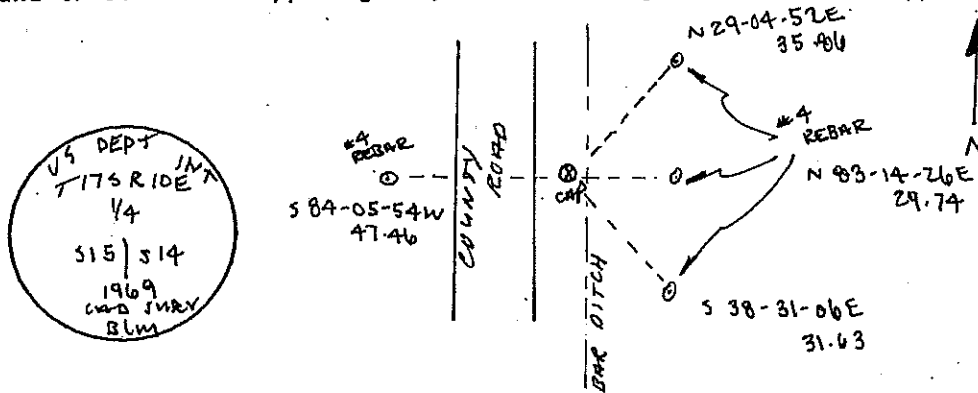
Your Description and Observation of Monument Found (Be Specific):

1969 BLM BRASS CAP LAYING ALONG SIDE OF COUNTY ROAD .

Description of Monument, Reference Monument or Accessories Established by You to Perpetuate the Location of this Point: RE-SET BLM BRASS CAP

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:

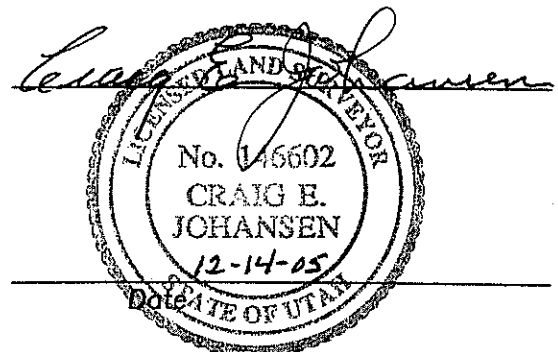
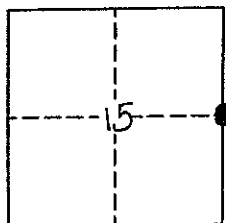
Firm name and/or Surveyor: Johansen & Tuttle Eng.

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: 15
 Township: 17S
 Range: 10E



PLSS GPS Observation Sheet

Project Name SL T17S R10E <small>(Meridian Township Range)</small>		Township T 1 7		1/2 (2)	N S	Range 1 0		1/2 (2)	E W	Section		Meridian SL US																							
Contacts Name Lee M. Swasey		Source Agency JOHANSEN & TUTTLE ENGINEERING						Date 11/15/05																											
Contacts Phone (435) 381-2523																																			
Control Station																																			
Name CLV GPS 11		Type COR HARN TRI Other EMERY COUNTY						Accuracy Order																											
USGS Quad Name CLEVELAND UTAH		Datum Nad27 Nad83 Nad83 (1994) WGS84 Local						State UTAH																											
Latitude						Longitude																													
N	3	9	-	2	1	-	3	7	.	1	7	4	2	6	1	W	1	1	0	-	4	9	-	2	8	.	6	7	6	1	8				
Northing						Easting																													
6	9	3	6	4	6	8	.	5	7	1	8	3	1	3	7	2	.	4	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 1735.93 M		FT		Geoid Height M		5752.63 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		AM						PM																							
Antenna Height																																			
Session Beginning		1"		M		2 nd		M		3 rd		M		Ave		4.587 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)		5		0		0		5		0		0		Description NE corner Sec. 15																					
Occupation time				PDOP Best				RMS Best																											
Number of Measurements 60				PDOP Worst 2.3				RMS Worst 19.8																											
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 1/2 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 1710500500

EMERY COUNTY LAND SURVEY MONUMENT RECORD

Date of field work: 11-15-05

County Reference No. 1710500500

Type of Monument: Section Corner
 Bench Mark

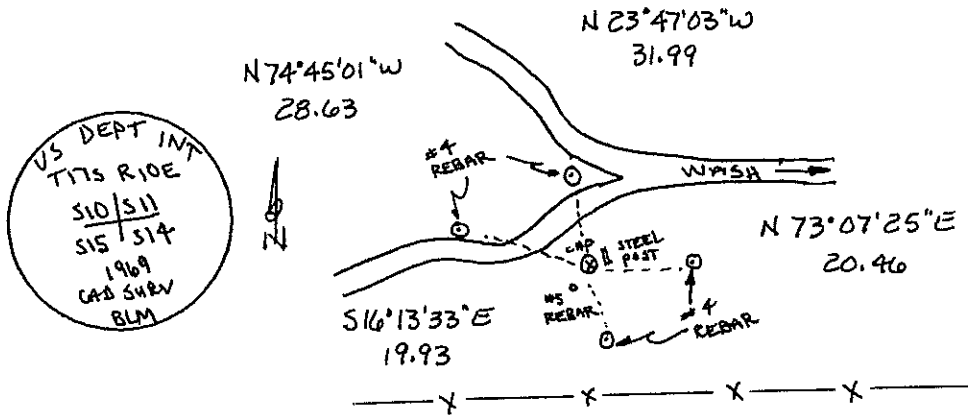
Quarter Corner
 Other _____

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

1969 BLM BRASS CAP 10" ABOVE GROUND LEVEL WITH A STEEL FENCE POST AND A #5 REBAR 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

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: 15

Township: 17S

Range: 10E

