

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF  
A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE SUBDIVISION OF SECTION 17,

IN

TOWNSHIP 29 SOUTH, RANGE 24 EAST,

OF THE SALT LAKE MERIDIAN  
IN THE STATE OF UTAH

EXECUTED BY

*Scott A. Burkhardt*  
*Cadastral Surveyor*

Under Special Instructions dated *October 6, 2009*, approved *October 6, 2009*, which provided for the surveys included under Group Number *1123*, and Assignment Instructions dated *October 6, 2009*.

Survey Commenced, *October 8, 2009*  
Survey Completed, *October 19, 2009*

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# INDEX DIAGRAM

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## TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, and the subdivision of section 17, in T. 29 S., R. 24 E., Salt Lake Meridian, Utah.

## HISTORY OF SURVEYS

Surveyed by		Retr. or Resurveyed by	
<b>SOUTH BOUNDARY</b>			
All	T.C. Rathborne & H.G. Mason	1915	
		-16	
Portion		A. Nelson & C.J. Terry	1919
Portion		J.L. Thomas	1991-96
<b>EAST BOUNDARY</b>			
All	E. Buettner	1880	
All		T.C. Rathborne & H.G. Mason	1915
			-16
<b>WEST BOUNDARY (Colorado Guide Meridian)</b>			
Portion	F. Dickert	1878	
Portion	E. Buettner		1884
All		H.D. Page	1902
All		T.C. Rathborne & H.G. Mason	1915
			-16
<b>NORTH BOUNDARY</b>			
All	F. Dickert	1878	
All		E. Buettner	1884
All		T.C. Rathborne & H.G. Mason	1915
			-16
<b>SUBDIVISION</b>			
Portion	F. Dickert	1878	
Portion	T.C. Rathborne & H.G. Mason	1915	T.C. Rathborne & H.G. Mason 1915
		-16	-16
Portion		J.L. Thomas	1991-96

## TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 1123, dated October 6, 2009.

The directions of the lines was determined by references to true meridian, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the Standards and Guidelines for Cadastral Surveys Using Global Positioning System Methods, dated May 9, 2001, Version 1.0. Trimble model 5800 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for the project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DI3419 P012 MONTICELLOUT2006 CORS ARP, DH6916 MC04 MESA CNTY 04 COOP CORS ARP, and DL3642 MC09 NUCLA CORS ARP.

The geographic position of the corner of sections 7, 8, 17, and 18, T. 29 S., R. 24 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude:  $38^{\circ}17'17.817''$  N.,  
Longitude:  $109^{\circ}18'35.496''$  W., N.A.D. 1983 (CORS96),  
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position of the corner of sections 17, 18, 19, and 20, T. 29 S., R. 24 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude:  $38^{\circ}16'25.655''$  N.,  
Longitude:  $109^{\circ}18'35.527''$  W., N.A.D. 1983 (CORS96),  
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

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Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 29 S., R. 24 E., Salt Lake Meridian, Utah.

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Reestablishment of the Survey Executed by  
T.C. Rathborne & H.G. Mason in 1915-16.

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Beginning at the corner of sections 20 and 21 only, monumented with an iron post, 2 inches diameter, firmly set, projecting 16 inches above the ground, with brass cap marked as described in the official record of the 1915-16 survey.

No remaining evidence of the bearing trees marked in 1915-16.

Corner is located in a fence, 3-foot high enclosure wire and 1-strand barbed wire, extending east and west.

S. 89°50.2' W., between sections 16 and 20.

9.499 True point for the closing corner of sections 16 and 17, not monumented, hereinafter described.

39.985 The 1/4 section corner of sections 17 and 20, monumented with an iron post, 1 inch diameter, firmly set, projecting 11 inches above the ground, with brass cap marked as described in the official record of the 1915-16 survey.

Set a steel fence post north of the corner.

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S. 89°49.8' W., beginning new measurement.

39.924 The corner of sections 17, 18, 19, and 20, monumented with an iron post, 2 inches diameter, firmly set, projecting 15 inches above the ground, with brass cap marked as described in the official record of the 1915-16 survey.

Set a steel fence post north of the corner.

---

N. 0°01.2' E., between sections 17 and 18.

40.003 The 1/4 section corner of sections 17 and 18, monumented with an iron post, 1 inch diameter, firmly set, projecting 10 inches above the ground, with brass cap marked as described in the official record of the 1915-16 resurvey.

Set a steel fence post north of the corner.

A fence corner for fences extending west and northeast, bears north, 11.5 links distance.

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DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

N. 0°02.0' E., beginning new measurement.

- 19.986 Point for the N 1/16 section corner of sections 17 and 18, not monumented.
- 29.979 Point for the N-N 1/64 section corner of sections 17 and 18, not monumented.
- 39.972 The corner of sections 7, 8, 17, and 18, monumented with an iron post, 2 inches diameter, firmly set, projecting 9 inches above the ground, with brass cap marked as described in the official record of the 1915-16 resurvey; with a mound of stone, 4 feet base, 2 feet high, west of the corner, and a section of steel rail, firmly set, projecting 5 feet above the ground, south of the corner.

from which the remaining bearing tree marked in 1915-16

A juniper, 20 inches diameter, bears N. 58°40.7' W., 165.0 links distance, marked T29S R24E S7 BT (Record: 10 inches diameter, N. 58 1/2° W.)

There is no remaining evidence of the other three bearing trees.

N. 89°57.1' E., between sections 8 and 17.

- 9.990 Point for the W-W 1/64 section corner of sections 8 and 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, with magnet at the base, in a mound of stone, 3 feet base, 1 foot high, with aluminum cap marked:

T29S R24E  
S 8  
W-W 1/64 ———  
S 17  
2009

Set a steel fence post north of the corner.

Corner is located on the west side of an earthen dam, extending north and south, on a moderately-steep, west-facing slope.

- 19.980 Point for the W 1/16 section corner of sections 8 and 17, not monumented.

- 29.970 Point for the E-W 1/64 section corner of sections 8 and 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with magnet at the base, with aluminum cap marked:

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

T29S R24E  
S 8  
E-W 1/64 ———  
S 17  
2009

Set a steel fence post north of the corner.

Corner is located on level ground, in thick, young willow trees and grass.

- 39.960 The 1/4 section corner of sections 8 and 17, monumented with an iron post, 1 inch diameter, firmly set, projecting 10 inches above the ground, with brass cap marked as described in the official record of the 1915-16 resurvey.

There is no remaining evidence of the bearing tree marked in 1915-16.

Set a steel fence post east of the corner.

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S. 89°58.7' E., beginning new measurement.

- 30.431 The closing corner of sections 8 and 17, monumented with an iron post, 2 inches diameter, firmly set, buried 26 inches below the ground, with brass cap marked as described in the official record of the 1915-16 survey.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S R24E  
S 8 |  
CC ——— | S 9  
S 17 |  
2009

Leave original 1916 iron post buried below aluminum post.

Set a steel fence post north of the corner.

The centerline of the Lisbon Valley Road, bears east, 35 links distance, extending north and south.

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Reestablishment of the Survey Executed by F. Dickert in 1878, and the Resurvey Executed by T.C. Rathborne & H.G. Mason in 1915-16.

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S. 3°11.0' E., on the east boundary of section 17.

- 4.207 The corner of sections 9 and 16 only, monumented with an iron post, 2 inches diameter, firmly set, projecting 28 inches above the ground, with brass cap marked as described in the official

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

record of the 1915-16 survey. The upper portion of iron post is bent at a 45° angle. Remonument to better perpetuate the corner position.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S	R24E	
	S 9	
S 17	—	
	S 16	
		2009

Bury original iron post west of the corner.

Corner is located east of the Lisbon Valley Road, in a fence, 5-strand barbed-wire, extending north and south.

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S. 0°14.3' W., beginning new measurement.

35.682 Point for the 1/4 section corner of section 17 only, determined at midpoint in latitude between the closing corner of sections 8 and 17 and the closing corner of sections 16 and 17, and on the line between the corner of sections 9 and 16 only and the 1/4 section corner of section 16 only. Point falls in the west shoulder of the paved Lisbon Valley road.

Set an iron spike, 10 inches long, flush with the pavement.

from which

An aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with magnet at the base, for a reference monument, bears S. 45°59.7' W., 60.7 links distance, with aluminum cap marked: RM T29S R24E S17 40.1 FT. TO COR. 2009 and an arrow pointing to the corner.

An aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with magnet at the base, for a reference monument, bears N. 42°07.9' W., 62.4 links distance, with aluminum cap marked: RM T29S R24E S17 41.2 FT. TO COR. 2009 and an arrow pointing to the corner.

Corner is located in the west shoulder of Lisbon Valley Road, a paved road, 25 feet wide, extending north and south.

From this point, an unrecorded rebar, 1/2 inch diameter, firmly set, projecting 2 inches above ground, with aluminum cap marked WC E 1/4 S17 51.42 FT PLS 171004, with an arrow, bears N. 50°16.7' W., 73.9 links distance; and an unrecorded rebar, 1/2 inch diameter, firmly set, projecting 2 inches above ground, with

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
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CHAINS

aluminum cap marked WC E 1/4 S17 55.53 FT PLS 171004, with an arrow, bears S. 38°01.1' W., 89.1 links distance. From the true point for the 1/4 section corner of section 17 only, the local point calculated using distance/distance intersection from these two unrecorded rebar, bears S. 1°19.2' W., 6.3 links distance. There is no record of this survey in the San Juan County Surveyor's office, there is no private land in section 17, set using unknown procedures and is not utilized during the course of this resurvey.

- 39.970 The 1/4 section corner of section 16 only, monumented with an iron post, 1 inch diameter, firmly set, bent over, buried 8 inches below the ground, with brass cap marked not as described in the official record of the 1915-16 survey.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S	R24E
1/4	S 16
2009	

Bury iron post next to the corner.

Corner is located 3 feet west of the west shoulder of Lisbon Valley Road, a paved road, 25 feet wide, extending north and south.

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S. 0°09.3' W., beginning new measurement.

- 35.594 The closing corner for sections 16 and 17, monumented with an iron post, 2 inches diameter, firmly set, projecting 13 inches above the ground, with brass cap marked as described in the official record of the 1915-16 resurvey.

Amend monument, add marks AM 2009 to brass cap.

Set a steel fence post north of the corner.

Corner is located east of Lisbon Valley Road, a paved road, 25 feet wide, extending north and south.

- 35.626 The true point for the closing corner of sections 16 and 17, at intersection with the north boundary of section 20.

THE SUBDIVISION OF SECTION 17,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

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The Subdivision of Section 17,  
T. 29 S., R. 24 E., Salt Lake Meridian, Utah.

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From the 1/4 section corner of sections 17 and 20.

N. 0°03.4' E., on the N-S centerline of section 17.

- 39.950 Point for the center 1/4 section corner of section 17, at intersection with the E-W centerline.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S R24E  
C 1/4 S17  
2009

Set a steel fence post north of the corner.

Corner is located in rolling terrain, with scattered pinon and juniper trees.

- 59.920 Point for the center N 1/16 section corner of section 17, not monumented.
- 69.905 Point for the center N-N 1/64 section corner of section 17, not monumented.
- 79.890 The 1/4 section corner of sections 8 and 17.

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From the 1/4 section corner of section 17 only.

S. 89°54.4' W., on the E-W centerline of section 17.

- 30.558 The center 1/4 section corner of section 17.
- 50.531 Point for the center W 1/16 section corner of section 17, not monumented.
- 70.504 The 1/4 section corner of sections 17 and 18.

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From the point for the center W 1/16 section corner of section 17.

N. 0°02.7' E., on the N-S centerline of the NW 1/4 of section 17.

- 19.978 Point for the NW 1/16 section corner, at intersection with the E-W centerline of the NW 1/4 of section 17.

THE SUBDIVISION OF SECTION 17,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S R24E  
NW 1/16 S17  
2009

Set a steel fence post north of the corner.

Corner is located on gently rolling terrain, with scattered pinon and juniper trees.

29.967 Point for the center N-NW 1/64 section corner of section 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with magnet at the base, with aluminum cap marked:

T29S R24E  
C-N-NW 1/64  
S17  
2009

Set a steel fence post north of the corner.

Corner is located on a gentle north slope, in sage brush.

39.956 The point for the W 1/16 section corner of sections 8 and 17.

From the point for the center N 1/16 section corner of section 17.

S. 89°55.7' W., on the E-W centerline of the NW 1/4 of section 17.

9.988 Point for the center E-NW 1/64 section corner of section 17, not monumented.

19.976 The NW 1/16 section corner of section 17.

29.964 Point for the center W-NW 1/64 section corner of section 17, not monumented.

39.952 The point for the N 1/16 section corner of sections 17 and 18.

From the point for the center E-NW 1/64 section corner of section 17.

N. 0°03.1' E., on the N-S centerline of the NE 1/4 of the NW 1/4 of section 17.

9.987 Point for the NE-NW 1/64 section corner, at intersection with the E-W centerline of the NE 1/4 of the NW 1/4 of section 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with magnet at the base, with aluminum cap marked:

THE SUBDIVISION OF SECTION 17,  
TOWNSHIP 29 SOUTH, RANGE 24 EAST, SALT LAKE MERIDIAN, UTAH.

## CHAINS

T29S R24E  
NE-NW 1/64 S17  
2009

Set a steel fence post north of the corner.

Corner is located on a gentle NW slope, at the north edge of thick pinon and juniper trees.

19.974 The E-W 1/64 section corner of sections 8 and 17.

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From the point for the center N-N 1/64 section corner of section 17.

S. 89°56.4' W., on the E-W centerline of the NE 1/4 of the NW 1/4 of section 17.

9.989 The NE-NW 1/64 section corner of section 17.

19.978 The center N-NW 1/64 section corner of section 17.

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From the point for the center W-NW 1/64 section corner of section 17.

N. 0°02.3' E., on the N-S centerline of the NW 1/4 of the NW 1/4 of section 17.

9.991 Point for the NW-NW 1/64 section corner, at intersection with the E-W centerline of the NW 1/4 of the NW 1/4 of section 17.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, with magnet at the base, in a collar of stone, 2 feet diameter, with aluminum cap marked:

T29S R24E  
NW-NW 1/64  
S17  
2009

Set a steel fence post north of the corner.

Corner is located west of an earthen dam, in sage brush.

19.982 The W-W 1/64 section corner of sections 8 and 17.

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From the center N-NW 1/64 section corner of section 17.

S. 89°56.4' W., on the E-W centerline of the NW 1/4 of the NW 1/4 of section 17.

9.989 The NW-NW 1/64 section corner of section 17.

19.978 The point for the N-N 1/64 section corner of sections 17 and 18.

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GENERAL DESCRIPTION

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The portion of Township 29 South, Range 24 East, included in this resurvey lies south of the town of La Sal. Main access is via Lisbon Valley Road, and numerous secondary paved and gravel roads provide access to the survey area. The topography consists of gently-rolling desert terrain, with an earthen dam blocking the drainage of West Coyote Wash to form Blankenagel Reservoir. Vegetation consists of pinon and juniper forest alternating with open areas of grasses and sage brush.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FIELD ASSISTANTS**

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Name	Capacity
Phil Freiberg	Survey Technician

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## CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt, Cadastral Surveyor*, hereby certify upon honor that, in pursuance of Special Instructions bearing the date of the 6th day of October, 2009, I have executed the dependent resurvey of a portion of the subdivisional lines, and the subdivision of section 17, in Township 29 South, Range 24 East, of the Salt Lake Meridian, in the state of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

1/19/2012

Date

Scott A. Burkhardt

(Cadastral Surveyor)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Salt Lake City, Utah

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, and the subdivision of section 17, in Township 29 South, Range 24 East, of the Salt Lake Meridian, in the state of Utah, executed by Scott A. Burkhardt, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

February 7, 2012

Date

Daniel W. Webb

(Chief Cadastral Surveyor for Utah)