

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

A METES-AND-BOUNDS SURVEY IN SECTIONS 29 AND 30,

IN

TOWNSHIP 15 SOUTH, RANGE 22 EAST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Scott A. Burkhardt
Cadastral Surveyor

Under Special Instructions dated and approved **August 9, 2010**, which provided for the surveys included under Group Number **1154**, and Assignment Instructions dated **August 9, 2010**.

Survey Commenced, **August 17, 2010**

Survey Completed, **August 31, 2010**

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INDEX DIAGRAM

Township 15 South, Range 22 East.

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TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, and a metes and bounds survey in sections 29 and 30, in T. 15 S., R. 22 E., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

	Surveyed by		Retr. or Resurveyed by
SOUTH BOUNDARY (Third Standard Parallel South)			
All	L.E. Bolinger	1918	
EAST BOUNDARY			
All	R. Gentry	1921	
WEST BOUNDARY			
All Portion	A. Nelson & J.P. Quigley	1920	S.A. Burkhardt (Concurrently) 2010
NORTH BOUNDARY			
All	R. Gentry	1921	
SUBDIVISION			
All	R. Gentry	1921	

TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1154, dated August 9, 2010.

The direction 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 For the Positional Accuracy of Cadastral Surveys When Using Global Navigation Satellite Systems (GNSS)*, February 23, 2009. Trimble model R8 GNSS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for 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 National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DL3522 MC06 MACK CORS ARP, DL3583 CNC1 RANGELY CORS ARP, DH6914 MC03 MESA CNTY 03 COOP CORS ARP.

The geographic position for the corner of sections 20, 21, 28, and 29, T. 15 S., R. 22 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **39°29'28.939" N.**,
Longitude: **109°28'08.952" W.**, N.A.D. 83 (CORS96),
Network Accuracy = 0.200 meter at 95% confidence

The geographic position for the corner of sections 19, 24, 25, and 30, T. 15 S., Rs. 21 and 22 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **39°29'28.958" N.**,
Longitude: **109°30'23.492" W.**, N.A.D. 83 (CORS96),
Network Accuracy = 0.200 meter at 95% confidence

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 15 S., R. 22 E., Salt Lake Meridian, Utah

Reestablishment of the Survey Executed by R. Gentry in 1921

Beginning at the corner of sections 28, 29, 32, and 33,
monumented with an iron post, 2 inches diameter, firmly set,
projecting 10 inches above the ground, with brass cap marked as
described in the official record of the 1921 survey.

A mound of stone, 2 feet base, 1 foot high, is located west of
the corner.

Corner is located in rolling terrain with sagebrush.

N. 0°00.1' E., between sections 28 and 29.

- 39.974 The 1/4 section corner of sections 28 and 29, monumented with an
iron post, 1 inch diameter, firmly set, projecting 7 inches
above the ground, with brass cap marked as described in the
official record of the 1921 survey.

From which the 1921 bearing trees

A pinon, 20 inches diameter, bears S. 51° E., 8.9 links
distance, marked 1/4 S28 BT (Record: 16 inches diameter, 8
links distance).

A juniper, 10 inches diameter, bears S. 15° W., 11.8 links
distance, marked 1/4 S29 BT (Record: 8 inches diameter, 13
links distance).

N. 0°00.5' W., beginning new measurement.

- 40.010 The corner of sections 20, 21, 28, and 29, 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 1921 survey.

From which the 1921 bearing trees

A pinon, 16 inches diameter, bears N. 35°30' E., 178.0 links
distance, marked T15S R22E S21 BT (Record: 12 inches
diameter).

A pinon, 11 inches diameter, bears S. 75° E., 201.1 links
distance, with a healed blaze (Record: 4 inches diameter,
marked T15S R22E S28 BT).

A juniper, 15 inches diameter, bears N. 52°15' W., 30.8 links
distance, marked T15S R22E S20 BT (Record: 22 inches
diameter, 31 links distance).

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
 CHAINS TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

From the corner of sections 28, 29, 32, and 33.

S. 89°59.4' W., between sections 29 and 32.

- 39.964 The 1/4 section corner of sections 29 and 32, monumented with an iron post, 1 inch diameter, firmly set, projecting 12 inches above the ground, with brass cap marked as described in the official record of the 1921 survey.

There is no remaining evidence of the 1921 bearing trees.

From the corner, a fence, 4-strand barbed wire, extends east and west.

N. 89°57.2' W., beginning new measurement.

- 35.372 Point for Angle Point No. 1, at intersection with the centerline of Winter Ridge Road, a gravel road, 20 feet wide, extending N. 52° W., and S. 52° E., hereinafter described.

- 39.962 The corner of sections 29, 30, 31, and 32, monumented with an iron post, 2 inches diameter, firmly set, projecting 6 inches above a mound of stone, 4 feet base, 3 feet high, with brass cap marked as described in the official record of the 1921 survey.

From which the 1921 bearing trees

A pinon, 15 inches diameter, bears N. 69°45' E., 113.0 links distance, marked T15S R22E S29 BT (Record: 10 inches diameter).

A pinon, 13 inches diameter, bears S. 62° E., 63 links distance, marked T15S R22E S32 BT (Record: 6 inches diameter).

A juniper, 15 inches diameter, bears S. 17°15' W., 201.0 links distance, marked T15S R22E S31 BT (Record: 8 inches diameter).

A juniper, 16 inches diameter, bears N. 66°45' W., 448.0 links distance, marked T15S R22E S30 BT (Record: 10 inches diameter).

From the corner, a fence, 4-strand barbed wire, extends east and west.

N. 89°54.3' W., between sections 30 and 31.

- 39.986 The 1/4 section corner of sections 30 and 31, monumented with an iron post, 1 inch diameter, firmly set, projecting 12 inches above the ground, with brass cap marked as described in the official record of the 1921 survey.

There is no remaining evidence of the 1921 bearing trees.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
 CHAINS TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

From the corner, a fence, 4-strand barbed wire, extends east and west.

N. 89°56.0' W., beginning new measurement.

- 39.986 The corner of sections 25, 30, 31, and 36, on the west boundary of the township, described in the field notes of T. 15 S., R. 21 E., concurrently resurveyed under this same group number.

From the corner of sections 29, 30, 31, and 32.

N. 0°01.4' W., between sections 29 and 30.

- 3.634 Point for Angle Point Number 2, at intersection with the centerline of Winter Ridge Road, a gravel road, 20 feet wide, extending N. 75° W., and S. 52° E., hereinafter described.
- 39.975 The 1/4 section corner of sections 29 and 30, monumented with an iron post, 1 inch diameter, firmly set, projecting 13 inches above the ground, with brass cap marked as described in the official record of the 1921 survey.

From which the 1921 bearing trees

A pinon, 5 inches diameter, bears S. 20°45' E., 22.0 links distance, marked 1/4 S29 BT (Record: 4 inches diameter).

A pinon, 7 inches diameter, bears N. 67°30' W., 21.0 links distance, marked 1/4 S30 BT (Record: 4 inches diameter).

N. 0°00.1' W., beginning new measurement.

- 40.002 The corner of sections 19, 20, 29, and 30, monumented with an iron post, 2 inches diameter, firmly set, projecting 8 inches above a mound of stone, 3 feet base, 2 feet high, with brass cap marked as described in the official record of the 1921 survey.

From which the 1921 bearing trees

A pinon snag, 10 inches diameter, bears N. 47°45' E., 59.0 links distance, marked T15S R22E S20 BT (Record: 7 inches diameter).

A pinon, 11 inches diameter, bears S. 82°45' E., 38.8 links distance, marked T15S R22E S29 BT (Record: 8 inches diameter, 80 links distance).

A pinon, 15 inches diameter, bears S. 68° W., 30.0 links distance, marked T15S R22E S30 BT (Record: 8 inches diameter).

A juniper, 11 inches diameter, bears N. 63°45' W., 18.0 links distance, marked T15S R22E S19 BT (Record: 7 inches diameter).

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
 CHAINS TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

From the corner of sections 20, 21, 28, and 29.

N. 89°58.9' W., between sections 20 and 29.

- 39.903 The 1/4 section corner of sections 20 and 29, monumented with an iron post, 1 inch diameter, firmly set, projecting 10 inches above a mound of stone, 4 feet base, 2 feet high, with brass cap marked as described in the official record of the 1921 survey.

From which the 1921 bearing trees

A pinon, 20 inches diameter, bears N. 19°30' W., 23.0 links distance, marked 1/4 S20 BT (Record: 12 inches diameter).

A pinon, 16 inches diameter, bears S. 26°30' E., 25.0 links distance, marked 1/4 S29 BT (Record: 12 inches diameter).

N. 89°59.4 W., beginning new measurement.

- 40.021 The corner of sections 19, 20, 29, and 30.

N. 89°59.6' W., between sections 19 and 30.

- 39.968 The 1/4 section corner of sections 19 and 30, monumented with an iron post, 1 inch diameter, buried 6 inches below the ground, with brass cap marked as described in the official record of the 1921 survey.

From which the 1921 bearing trees

A burnt pine snag, 17 inches diameter, bears S. 79° E., 73.2 links distance, with partially-healed blaze with indecipherable markings (Record: 8 inches diameter, 63 links distance, marked 1/4 S30 BT).

A burnt pine snag, 19 inches diameter, bears N. 67° W., 39.0 links distance, with a partially healed blaze with indecipherable marking (Record: 19 inches diameter, marked 1/4 S19 BT).

Raise a mound of stone, 3 feet base, 2 feet high, south of the corner.

Corner located in a drainage filled with sediment in an area of recent fire activity.

N. 89°59.5' W., beginning new measurement.

- 39.979 The corner of sections 19, 24, 25, and 30, on the west boundary of the township, described in the field notes of T. 15 S., R. 21 E., concurrently resurveyed under this same group number.

METES-AND-BOUNDS SURVEY IN SECTIONS 29 AND 30,
TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

Metes and Bounds Survey in Sections 29 and 30,
T. 15 S., R. 22 E., Salt Lake Meridian, Utah

This metes-and-bounds survey follows the centerline of Winter Ridge Road, an improved gravel road, 20 feet wide, in sections 29 and 30, T. 15 S., R. 22 E. Angle points were determined by visual inspection and aerial photography, and all angle points are monumented with steel spikes, 8 inches long, 3/8 inch diameter, set 6 inches or greater below the surface of the road.

Angle points at the intersection of section lines were perpetuated by reference monuments, one on each side of the roadway. Additionally, intermediate angle points were perpetuated by reference monuments to provide a spacing of approximately 1/2 mile between referenced angle points.

This metes-and-bounds survey was completed concurrently with a metes-and-bounds survey through sections 25 and 26, T. 15 S., R. 21 E., under this same group number. Angle Points Nos. 14 through 22 are described in the official field notes and plat of that survey.

From the point for Angle Point No. 1, at intersection with the section line between sections 29 and 32, T. 15 S., R. 22 E.

At the corner point

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below the road surface.

From which

An aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, with magnet at base, for a reference monument, bears S. 72°48' E., 67.2 links distance, with aluminum cap marked RM T15S R22E S32 2010, with an arrow pointing toward the corner with 44.3 FT. TO COR. marked along it.

An aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, to bedrock, with magnet at base, in a mound of stone, 2 feet diameter base, to cap, for a reference monument, bears S. 14°27' W., 157.3 links distance, with aluminum cap marked RM T15S R22E S32 2010, with an arrow pointing toward the corner with 103.8 FT. TO COR. marked along it.

N. 51°35.7' W., on line 1-2, in section 29.

5.857 The point for Angle Point No. 2, at intersection with the section line between sections 29 and 30.

At the corner point

METES-AND-BOUNDS SURVEY IN SECTIONS 29 AND 30,
TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

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Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below the road surface.

From which

The corner of sections 29, 30, 31, and 32, also functions as a reference monument, hereinbefore described, bears S. 0°01' E., 363.4 links distance.

An aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, magnet at base, in a collar of stone, 2 feet diameter, for a reference monument, bears N. 66°43' E., 81.2 links distance, with aluminum cap marked RM T15S R22E S29 2010, with an arrow pointing toward the corner with 53.6 FT. TO COR. marked along it.

N. 74°57.8' W., on line 2-3, in section 30.

4.534 Point selected for Angle Point No. 3.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 83°27.0' W., on line 3-4, beginning new measurement.

9.210 Point selected for Angle Point No. 4.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 56°38.9' W., on line 4-5, beginning new measurement.

3.796 Point selected for Angle Point No. 5.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 61°43.6' W., on line 5-6, beginning new measurement.

5.845 Point selected for Angle Point No. 6.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 54°14.6' W., on line 6-7, beginning new measurement.

10.753 Point selected for Angle Point No. 7

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below the road surface.

From which

METES-AND-BOUNDS SURVEY IN SECTIONS 29 AND 30,
TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

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An aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, magnet at base, for a reference monument, bears S. 86°14' E., 67.7 links distance, with aluminum cap marked RM T15S R22E S30 2010, with an arrow pointing toward the corner with 44.7 FT. TO COR. marked along it.

An aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, magnet at base, for a reference monument, bears S. 12°53' W., 150.6 links distance, with aluminum cap marked RM T15S R22E S30 2010, with an arrow pointing toward the corner with 99.4 FT. TO COR. marked along it.

N. 40°52.4' W., on line 7-8, beginning new measurement.

9.486 Point selected for Angle Point No. 8.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 67°17.2' W., on line 8-9, beginning new measurement.

8.711 Point selected for Angle Point No. 9.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 78°54.9' W., on line 9-10, beginning new measurement.

4.797 Point selected for Angle Point No. 10.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 70°40.2' W., on line 10-11, beginning new measurement.

3.876 Point selected for Angle Point No. 11.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below the road surface.

From which:

An aluminum post, 30 inches long, 2 1/2 inches diameter, 29 inches in the ground, magnet at base, for a reference monument, bears N. 43°38' E., 55.3 links distance, with aluminum cap marked RM T15S R22E S30 2010, with an arrow pointing toward the corner with 36.5 FT. TO COR. marked along it.

An aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, magnet at base, for a reference

METES-AND-BOUNDS SURVEY IN SECTIONS 29 AND 30,
TOWNSHIP 15 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

monument, bears S. 26°58' E., 151.8 links distance, with aluminum cap marked RM T15S R22E S30 2010, with an arrow pointing toward the corner with 100.2 FT. TO COR. marked along it.

N. 82°50.2' W., on line 11-12, beginning new measurement.

20.947 Point selected for Angle Point No. 12.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 78°38.9' W., on line 12-13, beginning new measurement.

2.479 Point selected for Angle Point No. 13.

Set a steel spike, 3/8 inch diameter, 8 inches long, 6 inches below road surface.

N. 80°42.1' W., on line 13-14, beginning new measurement.

3.639 Angle Point No. 14, at intersection with the section line between sections 25 and 30, T. 15 S., Rs. 21 and 22 E., described in the field notes of T. 15 S., R. 21 E., concurrently surveyed under this same group number.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Name	Capacity
Phil Freiberg	Survey Technician

CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the *9th day of August, 2010*, I have *dependently resurveyed a portion of the subdivisional lines, and a metes and bounds survey in sections 29 and 30, in Township 15 South, Range 22 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 a metes and bounds survey in sections 29 and 30, in Township 15 South, Range 22 East, Salt Lake Meridian, Utah*, executed by *Scott A. Burkhardt, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

January 25, 2012

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah