

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 21,

IN

**TOWNSHIP 32 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 **May 1, 2013**, which provided for the surveys included under Group Number **1232**, and Assignment Instructions dated **May 1, 2013**.

Survey Commenced, **May 2, 2013**  
Survey Completed, **September 12, 2013**

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TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

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## TOWNSHIP 32 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 the subdivision of section 21, in T.32 S., R.22 E., Salt Lake Meridian, Utah.

**HISTORY OF SURVEYS**

	<b>Surveyed by</b>		<b>Retr. or Resurveyed by</b>	
<b>SOUTH BOUNDARY</b>				
Portion	E. Buettner	1884		
All	A.D. Ferron	1906	A.D. Ferron	1906
All			S.P. Stewart & E.H. Anderson	1911
<b>EAST BOUNDARY</b>				
Portion	E. Buettner	1884		
All	S.P. Stewart & E.H. Anderson	1911	S.P. Stewart & E.H. Anderson	1911
<b>WEST BOUNDARY</b>				
All	S.P. Stewart & E.H. Anderson	1911		
<b>NORTH BOUNDARY</b>				
All	S.P. Stewart & E.H. Anderson	1911		
Portion			R.K. Baugh	2005
<b>SUBDIVISION</b>				
All	S.P. Stewart & E.H. Anderson	1911		

## TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1232, dated May 1, 2013.

The direction of each line is with reference to the true meridian, determined 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)*, dated February 23, 2009. Trimble model R8 GPS 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 the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DH6916 MC04 MESA CNTY 04 COOP CORS ARP, DL3642 MC09 NUCLA CORS ARP, DH6912 MC02 MESA CNTY 02 COOP CORS ARP.

The geographic position of the corner of sections 20, 21, 28, and 29, T. 32 S., R. 22 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°58'28.033" N.**,  
Longitude: **109°31'15.536" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,  
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position of the 1/4 section corner of sections 16 and 21, T. 32 S., R. 22 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°59'20.229" N.**,  
Longitude: **109°30'42.589" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,  
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

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Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 32 S., R. 22 E., Salt Lake Meridian, Utah

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The Reestablishment of the Survey Executed by  
S.P. Stewart and E.H. Anderson in 1911

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Beginning at the 1/4 section corner of sections 21 and 28, T. 32 S., R. 22 E., monumented with an iron post, 1 inch diameter, firmly set, projecting 15 inches above a mound of stone, 2 feet diameter, 1 foot high, with brass cap marked as described in the official record of the 1911 survey.

From which the remaining 1911 bearing tree

A pinon snag, 6 inches diameter, bears S. 69°38'W., 34.0 links distance, marked 1/4 S28 BT.

Rehabilitate mound of stone to 3 feet diameter, 2 feet high.

Corner falls on a ridge top extending N. 50°E. and S. 50°W.

**N. 89°45.9'W.**, between sections 21 and 28.

**19.932** Point for the W 1/16 section corner of sections 21 and 28. Not monumented.

**39.864** The corner of sections 20, 21, 28, and 29, monumented with an iron post, 2 inches diameter, firmly set, projecting 9 inches above a mound of stone, 3 feet diameter, 2 1/2 feet high, with brass cap marked as described in the official record of the 1911 survey.

There are no remaining standing 1911 bearing trees.

Corner falls on a high rocky cliff, west of a steep drop-off of several hundred feet to Indian Creek to the east.

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**N. 0°00.3'W.**, between sections 20 and 21.

**20.018** Point for the S 1/16 section corner of sections 20 and 21.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 9 inches in the ground, to bedrock, with magnet at base, in mound of stone, 3 feet diameter, to cap, with aluminum cap marked

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

T32S R22E

S 1/16

S20 | S21

2013

Set a steel fence post north of the corner.

Corner is located on a sandstone bench, southwest of a large pinon tree.

- 40.036** The 1/4 section corner of sections 20 and 21, monumented with an iron post, 1 inch diameter, firmly set, projecting 6 inches above a mound of stone, 3 feet diameter, 2 feet high, with brass cap marked as described in the official record of the 1911 survey.

From which the 1911 bearing trees

A pinon, 11 inches diameter, bears N. 66°15'E., 75 links distance, marked 1/4 S21 BT.

A pinon, 16 inches diameter, bears N. 54°45'W., 41 links distance, with a healed-over blaze (Record: marked 1/4 S20 BT).

Rehabilitate mound of stone to 3 feet diameter, to cap.

Corner is located on a rocky bluff, several hundred feet above the valley floor.

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**N. 0°04.8'W.**, beginning new measurement.

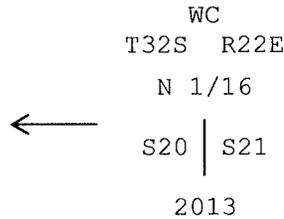
- 19.991** True point for the N 1/16 section corner of sections 20 and 21. Point falls on an area of sloping bedrock where it is impracticable to establish a permanent monument.

From which, the point selected for the on-line witness corner to the N 1/16 section corner of sections 20 and 21, bears N. 89°59.9'E., 0.018 chain distance.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, in a fracture in a boulder, with magnet at base, with aluminum cap marked

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS



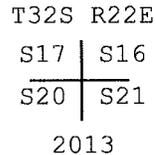
Set a steel fence post north of the corner.

Corner is located on a high mesa top, above Indian Creek.

- 39.982** The corner of sections 16, 17, 20, and 21, determined at the center of a mound of stone, 4 feet diameter, 2 1/2 feet high, with a divot in the center of the mound, with a steel fence post to the south. There is no remaining evidence of the 1911 iron post.

At the corner point (center of mound of stone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, on sandstone bedrock, with magnet at base, in a mound of stone, 4 feet diameter, to cap, with aluminum cap marked



From which the remaining 1911 accessories

The marks "+BO S16", on a horizontal sandstone ledge, bear N. 46°36' E., 19.8 links distance (Record: bear N. 45°30' E., 22 links distance).

The marks "+BO S21", on a horizontal sandstone ledge, bear S. 43°49' E., 25.0 links distance (Record: bear S. 43°40' E.).

A pinon snag, 10 inches diameter, bears N. 46°33' W., 103.7 links distance, with illegible markings, (Record: bears N. 47°35' W., marked T32S R22E S17 BT).

Corner is located on a sandstone bedrock ledge, several hundred feet above Indian Creek.

From the 1/4 section corner of sections 16 and 21, monumented with an iron post, 1 inch diameter, firmly set, projecting 6 inches above a mound of stone, 2 feet diameter, 2 feet high, with brass cap marked as described in the official record of the 1911 survey.

From which the remaining 1911 accessories

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH  
CHAINS

A pinon, 9 inches diameter, bears N.0°03'W., 37.3 links distance, marked 1/4 S16 BT (Record: bears N.49°00'E., 36 links).

A pinon, 9 inches diameter, bears S.10°58'W., 76 links distance, marked 1/4 S21 BT.

Corner is located in rolling hills, with pinon trees

**S. 89°58.9'W.**, between sections 16 and 21.

- 20.016** The W 1/16 section corner of sections 16 and 21, monumented with a rebar, 5/8 inch diameter, firmly set, projecting 4 inches above the ground, with aluminum cap, 1 inch diameter, marked LS7529. With a steel fence post north of the corner. This unrecorded monument is accepted as a careful and faithful determination of the corner position.

Corner is located near large boulders, near the top of a sandstone ridge, several hundred feet above Indian Creek to the west.

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**S. 89°59.6'W.**, beginning new measurement.

- 10.012** The W-W 1/64 section corner of sections 16 and 21, monumented with a rebar, 5/8 inch diameter, firmly set, flush with the ground, with aluminum cap, 1 inch diameter, marked LS7529. This unrecorded monument is accepted as a careful and faithful determination of the corner position.

Corner is located west of the shoulder of a paved highway, in brush.

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**N. 89°59.0'W.**, beginning new measurement.

- 10.008** The corner of sections 16, 17, 20, and 21.

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The Subdivision of Section 21,  
T. 32 S., R. 22 E., Salt Lake Meridian, Utah

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From the 1/4 section corner of sections 21 and 28.

**N. 0°05.2'E.**, on the N-S centerline of section 21.

- 20.099** Point for the center S 1/16 section corner of section 21. Not monumented.
- 40.198** Point for the center 1/4 section corner of section 21, at the intersection with the E-W centerline. Not monumented.
- 60.192** Point for the center N 1/16 section corner of section 21. Not monumented.

THE SUBDIVISION OF SECTION 21,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

## CHAINS

**80.186** The 1/4 section corner of sections 16 and 21.

From the 1/4 section corner of sections 21 and 22, monumented with an iron post, 1 inch diameter, firmly set, buried 6 inches below ground, with brass cap marked as described in the official record of the 1911 survey.

From which the remaining 1911 accessories

A pinon, 15 inches diameter, bears S.63°07'W., 55 links distance, marked 1/4 S21 BT (Record: bears N. 63°07'W.).

Excavate ground above monument, add collar of stone, 2 ft. diameter.

**N. 89°59.8'W.**, on the E-W centerline of section 21.

**40.059** The point for the center 1/4 section corner of section 21.

**60.021** Point for the center W 1/16 section corner of section 21.

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

T32S R22E  
W 1/16  
C———C  
S21  
2013

Set a steel fence post north of the corner.

Corner is located in a grassy area with cottonwood trees.

**79.983** The 1/4 section corner of sections 20 and 21.

From the point for the W 1/16 section corner of sections 21 and 28.

**N. 0°02.5'E.**, on the N-S centerline of the SW 1/4 of section 21.

**20.059** Point for the SW 1/16 section corner of section 21, at the intersection with the E-W centerline.

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

THE SUBDIVISION OF SECTION 21,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

T32S R22E  
SW 1/16 S21  
2013

Set a steel fence post north of the corner.

Corner is located on a gentle west-facing slope with pinon and juniper trees.

**40.118** The center W 1/16 section corner of section 21.

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From the point for the center S 1/16 section corner of section 21.

**N. 89°52.9'W.**, on the E-W centerline of the SW 1/4 of section 21.

**19.947** The SW 1/16 section corner of section 21.

**39.894** The S 1/16 section corner of sections 20 and 21.

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From the center W 1/16 section corner of section 21.

**N. 0°03.0'E.**, on the N-S centerline of the NW 1/4 of section 21.

**19.993** Point for the NW 1/16 section corner of section 21, at the intersection with the E-W centerline.

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

T32S R22E  
NW 1/16 S21  
2013

Set a steel fence post north of the corner.

Corner is located in an open, sandy field, south of a paved highway.

**29.980** The C-N-NW 1/64 section corner of section 21, monumented with a rebar, 5/8 inch diameter, firmly set, projecting 6 inches above the ground, with aluminum cap, 1 inch diameter, marked LS7529. With a steel fence post north of the corner, in an embedded collar of stone, 2 feet diameter. This unrecorded monument is accepted as a careful and faithful determination of the corner position.

Corner is located in an open valley, on top of a mesa, several hundred feet above the valley floor.

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THE SUBDIVISION OF SECTION 21,  
TOWNSHIP 32 SOUTH, RANGE 22 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

N. 0°07.5'W., beginning new measurement.

10.002 The W 1/16 section corner of sections 16 and 21.

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From the point for the center N 1/16 section corner of section 21

S. 89°59.9'W., on the E-W centerline of the NW 1/4 of section 21.

19.973 The NW 1/16 section corner of section 21.

39.961 The on-line witness corner to the N 1/16 section corner of sections 20 and 21, hereinbefore described.

39.979 The true point for the N 1/16 section corner of sections 20 and 21.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FIELD ASSISTANTS**

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<b>Name</b>	<b>Capacity</b>
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 *May 1, 2013*, I have *dependently resurveyed a portion of the subdivisional lines, and subdivided section 21, in Township 32 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.

10/31/2014

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 21, in Township 32 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.

October 31, 2014

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah