

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF
A PORTION OF THE SOUTH BOUNDARY AND
A PORTION OF THE SUBDIVISIONAL LINES,
IN

TOWNSHIP 13 SOUTH, RANGE 16 EAST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Scott A. Burkhardt
Cadastral Surveyor

Under Special Instructions dated and approved **September 16, 2013**, which provided for the surveys included under Group Number **1202**, and Assignment Instructions dated **September 16, 2013**.

Survey Commenced, **September 17, 2013**
Survey Completed, **October 23, 2013**

INDEX DIAGRAM

TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
	8				
31	7 32	5 33	34	35	36
	3				

TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

The following field notes are those of the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, in T.13 S., R.16 E., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY			
All	A.D. Ferron	1885	
Portion			H.D. Heist & J.H. Winwood 1908
Portion	C.P. Sylvester	1961	
EAST BOUNDARY			
All	C.P. Sylvester	1961	
WEST BOUNDARY			
All	H.D. Heist & J.H. Winwood	1908	
NORTH BOUNDARY			
Portion	H.D. Heist & J.H. Winwood	1908	
Portion	C.P. Sylvester	1961	
Portion			J.L. Thomas 1983
SUBDIVISION			
Portion	H.D. Heist & J.H. Winwood	1908	
Portion	C.P. Sylvester	1961	
Portion	J.L. Thomas	1983	J.L. Thomas 1983

TOWNSHIP 13 SOUTH, RANGE 16 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. 1202, dated September 16, 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 Network was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): AJ2124 CARBON COUNTY COU CORS ARP, DL3583 CNC1 RANGELY CORS ARP, and DL3522 MC06 MACK CORS ARP.

The geographic position of the corner of sections 28, 29, 32, and 33, T.13S., R.16E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **39°39'28.453" N.**,
Longitude: **110°08'19.211" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position of the corner of sections 29, 30, 31, and 32, T.13S., R.16E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **39°39'28.711" N.**,
Longitude: **110°09'26.751" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE SOUTH BOUNDARY,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the South Boundary,
T. 13 S., R. 16 E., Salt Lake Meridian, Utah

The Reestablishment of the Survey Executed by
A.D. Ferron, in 1885, and the Resurvey Executed by
H.D. Heist and J.H. Winwood, in 1908

Beginning at the corner of sections 4, 5, 32, and 33, on the south boundary of the township, monumented with a sandstone, 14 x 10 x 6 inches, firmly set, projecting 6 inches above the ground, with no visible markings, with a mound of stone, 2 feet base, 1 foot high, west of the corner. (Record: 15 x 10 x 6 inches, marked 4 notches on east edge, 2 notches on west edge).

From which the 1908 bearing trees

A pinon, 20 inches diameter, bears N. 23° 30' E., 27 links distance, with only the marks S33 BT visible (Record: marked T13S R16E S33 BT).

A pinon, 18 inches diameter, bears S. 59° E., 90 links distance, with illegible markings on a partially-healed blaze (Record: marked T14S R16E S4 BT).

At the corner (marked sandstone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 23 inches in the ground, with a magnet at base, in a mound of stone, 2 feet diameter, to aluminum cap, marked

T13S R16E	
S32	S33
S5	S4
T14S	
2013	

Bury marked stone in mound of stone.

Corner is located on a gentle north-facing slope, with dense pinon and juniper trees.

N. 89° 44.6' W., between sections 5 and 32.

39.966 The 1/4 section corner of sections 5 and 32, monumented with a sandstone, 22 x 12 x 5 inches, firmly set, projecting 14 inches above a mound of stone, 2 feet diameter, 1 foot high, with no visible markings (Record: 15 x 8 x 6 inches, marked 1/4 on north face).

At the corner (sandstone)

DEPENDENT RESURVEY OF A PORTION OF THE SOUTH BOUNDARY,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, with a magnet at base, in a collar of stone, 2 feet diameter, marked

T13S R16E

$$1/4 \frac{S32}{S5}$$

T14S
2013

Corner is located on a gentle northeast-facing slope, with dense pinon and juniper trees.

S. 89°59.7'W., beginning new measurement.

20.069 Point for the W 1/16 section corner of sections 5 and 32.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with a magnet at base, in a mound of stone, 2 feet diameter, to aluminum cap, marked

T13S R16E

$$W1/16 \frac{S32}{S5}$$

T14S
2013

Corner is located on a moderately-steep, north-facing slope.

40.138 The corner of sections 5, 6, 31, and 32, on the south boundary of the township, monumented with a sandstone, 17x8x7 inches, firmly set, projecting 5 inches above the ground, marked 5 notches on east edge, no visible marks on west edge, with a mound of stone, 3 feet base, 2 feet high, west of the corner. (Record: 18x6x6 inches, marked 1 notch on west edge).

From which the 1908 bearing trees

A pinon, 10 inches diameter, bears N. 21°30'E., 205 links distance, marked T13S R16E S32 BT.

A pinon, 16 inches diameter, bears N. 79°W., 215 links distance, with only the marks S3 BT visible (Record: marked T13S R16E S31 BT).

At the corner (marked sandstone)

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

DEPENDENT RESURVEY OF A PORTION OF THE SOUTH BOUNDARY,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

T13S R16E

S31	S32
S6	S5

T14S
2013

Bury marked stone alongside.

Corner is located on top of a knoll, with scattered pinon trees.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 13 S., R. 16 E., Salt Lake Meridian, Utah

The Reestablishment of the Survey Executed by
H.D. Heist and J.H. Winwood, in 1908

From the corner of sections 4, 5, 32, and 33, on the south
boundary of the township, hereinbefore described.

N. 0°03.0'E., between sections 32 and 33.

- 40.053** The 1/4 section corner of sections 32 and 33, monumented with a sandstone, 14x10x5 inches, firmly set, projecting 6 inches above the ground, with no visible markings (Record: 18x12x4 inches, marked 1/4 on west face).

From which the 1908 bearing trees

A pinon snag, 11 inches diameter, bears N. 9°52'E., 48 links distance, with illegible markings (Record: bears N. 11°E., 40 links distance, marked 1/4 S33 BT)

A juniper, 28 inches diameter, bears N. 4°57'W., 81 links distance, with a partially-healed blaze and only the marks 1/4 visible (Record: bears N. 4°W., 87 links distance, marked 1/4 S32 BT).

At the corner (sandstone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 15 inches in the ground, with a magnet at base, in a mound of stone, 4 feet diameter, to aluminum cap, marked

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

T13S R16E

1/4

S32	S33
-----	-----

2013

Bury marked stone alongside.

Corner is located in dense pinon and juniper trees.

N. 0°07.7'W., beginning new measurement.

- 39.991** The corner of sections 28, 29, 32, and 33, monumented with a sandstone, 14x9x5 inches, firmly set, projecting 6 inches above the ground, marked 5 notches on east edge, 1 notch on south edge (Record: 20x9x5 inches).

From which the remaining 1908 bearing trees

A pinon snag, 17 inches diameter, bears N.16°E., 24 links distance, with no visible markings (Record: marked T13S R16E S28 BT).

A pinon, 24 inches diameter, bears S.9°E., 21 links distance, marked T13S R16E S33 BT.

A pinon snag, 12 inches diameter, bears S.67°W., 29 links distance, marked T13S R16E S32 BT.

At the corner (marked sandstone)

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

T13S R16E

S29	S28
S32	S33

2013

Bury marked stone alongside.

Set a steel fence post north of the corner.

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

From the corner of sections 5, 6, 31, and 32, on the south boundary of the township, hereinbefore described.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH
CHAINS

N. 0°02.4'E., between sections 31 and 32.

20.080 Point for the S 1/16 section corner of sections 31 and 32.

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

T13S R16E
S 1/16
S31 | S32
2013

Corner is located in an open valley, on a gentle north-facing slope.

40.160 The 1/4 section corner of sections 31 and 32, monumented with a sandstone, 11x10x5 inches, firmly set, buried 3 inches below the ground, with no visible markings (Record: 16x10x6 inches, marked 1/4 on west face).

From which the 1908 bearing trees

A pinon, 16 inches diameter, bears N. 52° E., 15 links distance, marked S32 BT (Record: marked 1/4 S32 BT).

A pinon, 13 inches diameter, bears S. 13°30' W., 45 links distance, with a partially-healed blaze with only the mark S visible (Record: marked 1/4 S31 BT).

At the corner (sandstone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 29 inches in the ground, with a magnet at base, with aluminum cap, marked

T13S R16E
1/4
S31 | S32
2013

Corner is located on a gentle, south-facing slope, with pinon trees.

N. 0°05.3'W., beginning new measurement.

40.105 The corner of sections 29, 30, 31, and 32, monumented with a sandstone, 13x10x4 inches, firmly set, projecting 6 inches above the ground, marked 5 notches on east edge, 1 notch on south edge

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

(Record: 18x12x3 inches).

From which the 1908 bearing trees

A pinon, 19 inches diameter, bears N. 87° E., 258 links distance, with a partially-healed blaze and only the marks S29 BT visible (Record: marked T13S R16E S29 BT).

A pinon, 15 inches diameter, bears S. 85° E., 260 links distance, with a partially-healed blaze and only the marks T13 S3 visible (Record: marked T13S R16E S32 BT).

A pinon, 14 inches diameter, N. 10° 30' W., 214 links distance, with a partially-healed blaze and only the marks S3 BT visible (Record: marked T13S R16E S30 BT).

At the corner (marked sandstone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 8 inches in the ground, to bedrock, with a magnet at base, in a mound of stone, 3 feet diameter, to aluminum cap, marked

T13S R16E

S30	S29
S31	S32

2013

Bury marked stone in mound of stone.

Set a steel fence post north of the corner.

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

S. 89° 53.6' W., between sections 29 and 32.

40.046 The 1/4 section corner of sections 29 and 32, monumented with a sandstone, 15x7x4 inches, firmly set, projecting 6 inches above the ground, marked 1/4 on north face (Record: 20x9x3 inches).

From which the 1908 bearing trees

A pinon, 11 inches diameter, bears N. 73° E., 205 links distance, with a healed-over blaze (Record: marked 1/4 S29 BT).

A pinon, 18 inches diameter, bears S. 11° E., 84 links distance, with a healed-over blaze (Record: marked 1/4 S32 BT).

At the corner (marked sandstone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, with a magnet at base, in a mound of stone, 3 feet diameter, to aluminum cap, marked

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 13 SOUTH, RANGE 16 EAST, SALT LAKE MERIDIAN, UTAH

CHAINS

T13S R16E

1/4 $\frac{S29}{S32}$

2013

N.89°19.6'W., beginning new measurement.

40.023 The corner of sections 29, 30, 31, and 32.

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 *September 16, 2013*, I have *dependently resurveyed a portion of the south boundary and a portion of the subdivisional lines, in Township 13 South, Range 16 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.

2/27/2015

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 south boundary and a portion of the subdivisional lines, in Township 13 South, Range 16 East, Salt Lake Meridian; Utah*, executed by *Scott A. Burkhardt, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

March 13, 2015

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah