ORIGINAL

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
# BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE

SUBDIVISIONAL LINES

**TOWNSHIP 4 SOUTH, RANGE 13 EAST,**

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

## EXECUTED BY

**Daniel L. Maxey, Cadastral Surveyor**

Under Special Instructions dated February 4, 2008, approved February 4, 2008, which provided for the surveys included under Group No. 1040 and assignment instructions dated February 4, 2008.

**Survey commenced February 7, 2008**

**Survey completed February 26, 2008**

# INDEX DIAGRAM

## TOWNSHIP 4 SOUTH RANGE 13 EAST
### GILA AND SALT RIVER MERIDIAN, ARIZONA

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**T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines, Township 4 South, Range 13 East, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

Roy J. Gill surveyed the North boundary in 1916-17. William H. Thorn surveyed the East, West and South boundaries and the subdivisional lines in 1922.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated February 4, 2008, for Group Number 1040, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and 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 Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) DH4132 AZCL COOLIDGE CORS ARP, DH4134 AZKR KEARNY CORS ARP and DF5763 AZGB GILA COUNTY CORS ARP. The NAD_83 (CORS96)(EPOCH:2002.0000), geographic position of the corner of sections 11, 12, 13 and 14 is as follows:

Latitude: 33°05'27.29" N. Longitude: 110°58'52.74" W.

The mean magnetic declination is 11° E.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

| CHAINS | |
|---|---|
| | Restoring the survey executed by<br>William H. Thorn, in 1922 |
| | Beginning at the cor. of secs. 11, 12, 13 and 14, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. T4S R13E S11 S12 S14 S13 1922. Add the marks 2008 to the brass cap. |
| | N. 0°02' W., bet. secs. 11 and 12. |
| 40.09 | The 1/4 sec. cor. of secs. 11 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 14 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. 1/4 S11 S12 1922. Add the marks T4S R13E 2008 to the brass cap. |
| | N. 0°04' E., beginning new measurement. |
| 15.91 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 87° E. and N. 87° W. |
| 16.06 | Point for a witness point on line bet. secs. 11 and 12. |
| | Set an aluminum rod, 3/4 in. diam., 36 ins. long, 34 ins. in the ground, in a collar of stone, with an aluminum cap mkd.<br>WP<br>T 4 S R 13 E<br>S 11 \| S 12<br>2008 |
| 39.97 | The cor. of secs. 1, 2, 11 and 12, monumented with an iron post, 2 ins. diam., firmly set, projecting 17 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. T4S R13E S2 S1 S11 S12 1922. Add the marks 2008 to the brass cap. |
| | From the cor. of secs. 11, 12, 13 and 14. |
| | S. 89°58' W., bet. secs. 11 and 14. |
| 33.72 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 7°45' E. and S. 7°45' W. |
| 39.91 | The 1/4 sec. cor. of secs. 11 and 14, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above the ground, with brass cap mkd. 1/4 S11 S14 1922. Add the marks T4S R13E 2008 to the brass cap. |

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

| CHAINS | |
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| | from which the orig. bearing tree<br><br>A dead palo verde, 6 ins. diam., bears N. 70° E., 19 lks. dist., with no visible marks. |
| | From the cor. of secs. 1, 2, 11 and 12.<br><br>N. 0°01' E., bet. secs. 1 and 2. |
| 13.10 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 43°50' E. and N. 43°50' W. |
| 13.25 | Point for a witness point on line bet. secs. 1 and 2.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 24 ins. in the ground, in a collar of stone, with an aluminum cap mkd.<br><br>WP<br>T 4 S R 13 E<br>S 2 \| S 1<br>2008 |
| 15.40 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 76°10' E. and S. 76°10' W. |
| 15.56 | Point for a witness point on line bet. secs. 1 and 2.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 32 ins. in the ground, in a collar of stone, with an aluminum cap mkd.<br><br>WP<br>T 4 S R 13 E<br>S 2 \| S 1<br>2008 |
| 19.69 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 42°50' E. and N. 42°50' W. |
| 19.84 | Point for a witness point on line bet. secs. 1 and 2.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 16 ins. in the ground, in a supporting mound of stone, 3 ft. base, 16 ins. high, with an aluminum cap mkd. |

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

| CHAINS | |
|---|---|
| | WP<br>T 4 S R 13 E<br>S 2 \| S 1<br>2008 |
| 20.75 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 51°35' E. and S. 51°35' W. |
| 20.90 | Point for a witness point on line bet. secs. 1 and 2.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 16 ins. in the ground, in a supporting mound of stone, 3 ft. base, 16 ins. high, with an aluminum cap mkd.<br><br>WP<br>T 4 S R 13 E<br>S 2 \| S 1<br>2008 |
| 39.89 | The 1/4 sec. cor. of secs. 1 and 2, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. 1/4 S2 S1 1922. Add the marks T4S R13E 2008 to the brass cap. |
| | North, beginning new measurement. |
| 6.78 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 78°35' E. and N. 78°35' W. |
| 6.93 | Point for a witness point on line bet. secs. 1 and 2.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 14 ins. in the ground, in a supporting mound of stone, 3 ft. base, 16 ins. high, with an aluminum cap mkd.<br><br>WP<br>T 4 S R 13 E<br>S 2 \| S 1<br>2008 |

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

| CHAINS | |
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| 39.50 | The cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T3S R13E S35 S36 S2 S1 T4S 1916. Add the marks 2008 to the brass cap. |
| | From the 1/4 sec. cor. of secs. 10 and 11, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, with a mound of stone, 3 ft. base, 3 ft. high, to the W., with brass cap mkd. 1/4 S10 S11 1922. Add the marks T4S R13E 2008 to the brass cap. |
| | North, bet. secs. 10 and 11. |
| 37.47 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 82°30' E. and N. 82°30' W. |
| 39.19 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 78°25' E. and N. 78°25' W. |
| 40.01 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 73°35' E. and S. 73°35' W. |
| 40.13 | The cor. of secs. 2, 3, 10 and 11, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, with a mound of stone, 4 ft. base, 2 ft. high, to the W., with brass cap mkd. T4S R13E S3 S2 S10 S11 1922. Add the marks 2008 to the brass cap. |
| | From the cor. of secs. 1, 2, 11 and 12. |
| | West, bet. secs. 2 and 11. |
| 39.83 | The true point for the 1/4 sec. cor. of secs. 2 and 11, determined at proportionate dist., falls in wash where it is impracticable to establish a permanent monument. |
| 39.98 | The witness cor. to the 1/4 sec. cor. of secs. 2 and 11, monumented with an iron post, 1 in. diam., firmly set, projecting 23 ins. above the ground, in a supporting mound of stone, 4 ft. base, 18 ins. high, with brass cap mkd. WC 1/4 S2 S11 1922. Remark the brass cap to read<br><br>T 4 S R 13 E<br>S 2<br>1/4 ——— WC<br>S 11<br><br>2008<br>1922 |

**Dependent Resurvey of a Portion of the Subdivisional Lines,
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| CHAINS | |
|---|---|
| | S. 89°58' W., beginning new measurement. |
| 28.11 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 53°45' E. and S. 53°45' W. |
| 29.94 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 36°50' E. and S. 36°50' W. |
| 39.43 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears N. 72°55' E. and S. 72°55' W. |
| 39.82 | The cor. of secs. 2, 3, 10 and 11. |
| | S. 89°57' W., bet. secs. 3 and 10. |
| 1.42 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 78°50' E. and N. 78°50' W. |
| 2.76 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 70°30' E. and N. 70°30' W. |
| 8.04 | Intersect the center line of the proposed Arizona Trail right-of-way. Proposed Trail bears S. 30°50' E. and N. 30°50' W. |
| 8.19 | Point for a witness point on line bet. secs. 3 and 10.<br><br>Set an aluminum rod, 3/4 in. diam., 36 ins. long, 18 ins. in the ground, in a supporting mound of stone, 2 ft. base, 14 ins. high, with an aluminum cap mkd.<br><br>WP<br>T 4 S R 13 E<br>S 3<br>S 10<br><br>2008 |
| 39.94 | The 1/4 sec. cor. of secs. 3 and 10, monumented with an iron post, 1 in. diam., firmly set, projecting 1 in. above the ground, with brass cap mkd. 1/4 S3 S10 1922, with a steel fence post set alongside. Add the marks T4S R13E 2008 to the brass cap.<br><br>from which the remaining orig. bearing tree<br><br>A mesquite, 14 ins. diam., bears S. 45°25' E., 44 lks. dist., with scribe marks 1/4 S10 BT visible on a partially healed blaze. (Record: S. 34°35' E., 41 lks.) |

**T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona**

CHAINS

GENERAL DESCRIPTION

This survey was executed in conjunction with an administrative survey of the center line right-of-way of a portion the proposed Arizona Trail which will meander through the township.

The Gila river is the main water source which traverses the northern portion of the Township. Access to the portion of the survey south of the Gila river is from the Florence-Kelvin Highway, a graded road. Access to the portion of the survey north of the Gila river is from a graded road extending from the community of Kelvin just north of the Gila river.

The mean elevation of the area surveyed is approximately 2000 feet. The area is mostly undisturbed, but there are several well used jeep trails through it. The vegetation is classic to the Arizona Upland subdivision of the Sonoran Desertscrub with many fine specimens of mesquite, palo verde, and a wide variety of cacti. Wildlife observed was also typical of the biotic community.

The mean magnetic declination of 11° E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the dates of survey.

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

FIELD ASSISTANTS

| NAMES | CAPACITY |
|---|---|
| Jeff Lark | Trails Specialist |
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CERTIFICATE OF SURVEY

I, Daniel L. Maxey, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 4th day of February, 2008, I have dependently resurveyed a portion of the subdivisional lines, T. 4 S., R. 13 E., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. 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.

7-23-08
(Date)

Daniel L. Maxey
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, T. 4 S., R. 13 E., Gila and Salt River Meridian, in the State of Arizona, executed by Daniel L. Maxey, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

4/6/2009
(Date)

Stephen K. Hansen
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 4 S., R. 13 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~