

ORIGINAL

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

FIELD NOTES

OF THE DEPENDENT RESURVEY OF  
A PORTION OF THE FOURTH STANDARD PARALLEL NORTH  
(SOUTH BOUNDARY)  
AND A PORTION OF THE EAST BOUNDARY  
TOWNSHIP 17 NORTH, RANGE 24 EAST,  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Craig S. Dukart, Cadastral Surveyor**

Under Special Instructions dated September 27, 2016, approved September 27, 2016, which provided for the surveys included under Group No. 1163, and assignment instructions dated September 27, 2016.

**Survey commenced September 27, 2016**

**Survey completed October 18, 2016**

## INDEX DIAGRAM

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GILA & SALT RIVER MERIDIAN, ARIZONA

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## T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona

## CHAINS

The following field notes describe the Dependent Resurvey of a portion of the Fourth Standard Parallel North (South boundary) and a portion of the East Boundary, Township 17 North, Range 24 East, Gila and Salt River Meridian, Arizona.

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

The Fourth Standard Parallel North (south boundary), Township 17 North, Range 24 East, Gila and Salt River Meridian, was surveyed by Henry A. Coe, Deputy Surveyor, in 1882. (Book 1284)

The East Boundary, Township 17 North, Range 24 East, Gila and Salt River Meridian, was surveyed by Henry A. Coe, U.S. Deputy Surveyor, in 1882 - 1883. (Book 1392)

The resurvey of the Fourth Standard Parallel North, thru part of Range 24 East, Gila and Salt River Meridian, was surveyed by Sidney E. Blout, U.S. Cadastral Engineer, in 1921. (Book 3595)

The section corners on the East Boundary, Township 17 North, Range 24 East, Gila and Salt River Meridian, were reestablished by Sidney E. Blout, U.S. Cadastral Engineer, in 1921. (Book 3597)

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions, (2009), and the Special Instructions dated September 27, 2016, for Group No. 1163, Arizona.

The true meridian direction and length of all lines were determined by real-time kinematic global positioning system observations using Trimble Navigation R8 model receivers.

The "standard monument" referred to in these notes is a stainless steel post, 28 ins. long, 2 1/2 ins. diam., with a brass cap. Unless otherwise indicated, a magnet in a white plastic case is deposited at the base of the stainless steel post.

Geodetic control was derived from Global Positioning System (GPS) static post observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) DL6010 AZSV STAR VALLEY CORS ARP, DH4513 P015 DUECECLUBSAZ2005 CORS ARP, and DM4629 AZRV ROUND VALLEY CORS ARP. The NAD 83 (CORS96)(EPOCH:2010), the geographic position of the following two corners:

The standard corner of secs. 33 and 34, T. 17 N., R. 24 W., is as follows:

Latitude: 34°49'20.545" N.

Longitude: 109°47'29.017" W.

## T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona

## CHAINS

The sec. cor. of secs. 1, 6, 7, and 12, T. 17 N., Rs. 24 and 25 E., is as follows:

Latitude: 34°53'41.721" N. Longitude: 109°44'15.494" W.

The mean magnetic declination is 10° E.

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**Dependent Resurvey of  
a Portion of the Fourth Standard Parallel North  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona**

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Restoring the survey executed by  
Henry A. Coe, in 1882  
and the resurvey executed by  
Sidney E. Blout, in 1921

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Beginning at the standard cor. of T. 17 N., Rs. 24 and 25 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 19 ins. above the ground, with brass cap mkd. SC T17N R24E R25E S36 S31 S1 S6 T16N 1921.

Add the marks 2016 to the brass cap.

This cor. is located S, 5 1/2 lks. dist. of a steel fence cor., fence bears N and SW'erly; 4 lks. dist. of a wood fence cor., fence bears E and S of E; 19 lks. dist. of a wood fence corner, fence bears S. 30° W. and N. 15° W.

N. 89°40' W., on the Fourth Standard Parallel North.

Over open, rolling terrain.

23.05 Trail road, 9 ft. wide, bears S. 20° E. and N. 20° W.

33.68 A cor. set by Michael Braden, Arizona R.L.S. No. 16292, monumented with an iron pipe, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. RLS16292 T17N R24E CC S1 S6 T16N R24E T25E A.P.S. CO. There was no plat located indicating the establishment of this cor. This cor. was accepted by Clyde J. King, Arizona R.L.S. 28728, in 2001, as the closing cor. of secs. 1 and 6, T. 16 N., Rs. 24 and 25 E., according to the plat of Results of Survey for SECTION 36 Township 17N, Range 24E, Gila and Salt River Meridian, Apache County, Arizona, filed in Book 9LS, Page 70, Apache County Recorder's Office, dated June 15, 2001, and the plat of Results of Survey for SECTION 6 Township 16N, Range 25E, Gila and Salt River Meridian, Apache County, Arizona, filed in Book 9LS, Page 71, Apache County Recorder's Office, dated June 15, 2001.

Dependent Resurvey of  
A Portion of the Fourth Standard Parallel North  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.16	<p>Point for the stan. 1/4 sec. cor. of sec. 36, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 23 ins. in the ground, mkd.</p> <p style="text-align: center;">SC T 17 N R 24 E</p> <p style="text-align: center;"><u>1/4 S 36</u> 2016</p> <p>Set a steel "T-Post" fence post W of cor.</p>
80.32	<p>The stan. cor. of secs. 35 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 18 ins. above the ground, with brass cap mkd. SC T17N R24E S35 S36 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post W of cor.</p> <hr/> <p>N. 89°39' W., on the south boundary of sec. 35.</p> <p>Over open, rolling terrain.</p>
40.15	<p>Point for the stan. 1/4 sec. cor. of sec. 35, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 23 ins. in the ground, mkd.</p> <p style="text-align: center;">SC T 17 N R 24 E</p> <p style="text-align: center;"><u>1/4 S 35</u> 2016</p> <p>Set a steel "T-Post" fence post W of cor.</p>
80.30	<p>The stan. cor. of secs. 34 and 35, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. SC T17N R24E S34 S35 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post W. of cor.</p> <hr/> <p>N. 89°40' W., on the south boundary of sec. 34.</p> <p>Over open, rolling terrain.</p>
23.05	<p>Trail road, 8 ft. wide, bears N. 40° E. and S. 45° W.</p>

**Dependent Resurvey of  
A Portion of the Fourth Standard Parallel North  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona**

CHAINS							
31.35	Top of dirt berm of a water tank, bears S. 50° E. and N. 60° W.; across the northerly tip of the water tank.						
32.55	Top of dirt berm of a water tank, bears N. 40° E. and S. 5° W.						
32.73	The closing cor. of secs. 2 and 3, T. 16 N., R. 24 E., monumented with an iron post, 2 ins. diam., firmly set, bent and leaning, 10 ins. below ground, with brass cap mkd. T17N R24E S34 S3 S2 CC T16N 1921.  At the corner point  Set a standard monument, 26 ins. in the ground, mkd.  <div style="text-align: center;"> <p>T 17 N R 24 E</p> <p>S 34</p> <hr style="width: 50px; margin: 0 auto;"/> <table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 3</td> <td style="padding: 0 5px;">S 2</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">T16N</td> <td style="padding: 0 5px;">R 24 E</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">C C</td> <td style="padding: 0 5px;"></td> </tr> </table> <p>2016</p> </div> Bury the orig. iron post horizontally on the south side of the stainless steel post.  Set a steel "T-Post" fence post W of cor.  <hr style="width: 200px; margin: 0 auto;"/> N. 89°34' W., beginning new measurement.  Over open, rolling terrain.  7.39 The stan. 1/4 sec. cor. of sec. 34, monumented with an iron post, 1 in. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. SC 1/4 S34 1921.  Add the marks T17N R24E 2016 to the brass cap and set a steel "T-Post" fence post W of cor.  <hr style="width: 200px; margin: 0 auto;"/> N. 89°39' W., beginning new measurement.  Over open, rolling terrain.  7.20 Trail road, 8 ft. wide, bears S. 60° E. and N. 70° W.  15.60 Trail road, 8 ft. wide, bears S. 10° E. and N. 10° W.	S 3	S 2	T16N	R 24 E	C C	
S 3	S 2						
T16N	R 24 E						
C C							

**Dependent Resurvey of  
A Portion of the Fourth Standard Parallel North  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona**

CHAINS	
32.64	<p>The 1/4 sec. cor. of sec 3, T. 16 N., R. 24 E., monumented with an iron post, 1 in. diam., firmly set, projecting 13 ins. above the ground, with brass cap mkd. PFNM 1/4 S3 1921.</p> <p>Add the marks T17N R24E T16N R24E 2016 to the brass cap.</p> <p>Cor. is located in the cor. of a barbed wire fence, 4 strand, bears S. and W.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°51' W., beginning new measurement.</p> <p>Over level terrain, along a barbed wire fence.</p>
7.50	<p>The stan. cor. of secs. 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. SC T17N R24E PFNM S33 S34 1921.</p> <p>Add the marks 2016 to the brass cap.</p> <p>Cor. is located at the cor. of a barbed wire fence, 4 strand, bears N and E.</p> <hr style="width: 20%; margin: 10px auto;"/> <p style="text-align: center;"><b>Dependent Resurvey of a Portion of East Boundary T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona</b></p> <hr style="width: 20%; margin: 10px auto;"/> <p style="text-align: center;">Restoring the survey executed by Henry A. Coe, in 1883 and the reestablishment of section corners executed by Sidney E. Blout, in 1921</p> <hr style="width: 20%; margin: 10px auto;"/> <p>From the standard cor. of T. 17 N., Rs. 24 and 25 E., hereinbefore described.</p> <p>N. 0°31' E., bet. secs. 31 and 36.</p> <p>Over open, rolling terrain, along a barbed wire fence line.</p>
40.15	<p>Point for the 1/4 sec. cor. of secs. 31 and 36, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 22 ins. in the ground, mkd.</p> <p style="text-align: center;">T 17 N R 24 E    R 25 E</p> <p style="text-align: center;">1/4</p> <p style="text-align: center;">S 36   S 31</p> <p style="text-align: center;">2016</p>

Dependent Resurvey of a Portion of the East Boundary  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
80.31	<p>Set a steel "T-Post" fence post W of cor.</p> <p>Cor. falls in a barbed wire fence, 4 strand, bears N and S.</p> <p>The sec. cor. of secs. 25, 30, 31, and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T17N R24E R25E S25 S30 S36 S31 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post S of cor.</p> <p>Cor. is located W, 1 lk. dist. of a barbed wire fence, 4 strand, bears N and S.</p>
40.175	<p>N. 0°32' E., bet. secs. 25 and 30.</p> <p>Over open, rolling terrain, along a barbed wire fence line.</p> <p>Point for the 1/4 sec. cor. of secs. 25 and 30, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 25 ins. in the ground, mkd.</p>
	<p style="text-align: center;">T 17 N R 24 E    R 25 E</p> <p style="text-align: center;">1/4</p> <p style="text-align: center;">S 25   S 30</p> <p style="text-align: center;">2016</p> <p>Set a steel "T-Post" fence post N of cor.</p> <p>Cor. falls W, 1 lk. dist. of a barbed wire fence, 4 strand, bears N and S.</p>
80.35	<p>The sec. cor. of secs. 19, 24, 25, and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T17N R24E R25E S24 S19 S25 S30 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post S of cor.</p> <p>Cor. is located W, 1 lk. dist. of a barbed wire fence, 4 strand, bears N and S.</p> <p>N. 0°33' E., bet. secs. 19 and 24.</p> <p>Over open, rolling terrain, along a barbed wire fence line.</p>



**Dependent Resurvey of a Portion of the East Boundary  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona**

CHAINS	
6.60	Fence, barbed wire, 4 strand, bears E. and W., leave N-S barbed wire fence.
20.10	The S 1/16 sec. cor. of secs. 19 and 24, established by William Young, P.E. 8174, with no plat located indicating the establishment of this cor., monumented with an iron post, concrete filled, 2 1/2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. PE 8174 R24E R25E 1/16 S24 S19 T17N 1972.
	_____
	N. 0°31' E., beginning new measurement.
20.08	The 1/4 sec. cor. of secs. 19 and 24, reestablished by William Young, P.E. 8174, with no plat located indicating the reestablishment of this cor., monumented with an iron post, concrete filled, 2 1/2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. PE 8174 1/4 R24E R25E S24 S19 T17N 1972.
	At the corner point
	Set a standard monument, 25 ins. in the ground, mkd.
	T 17 N R 24 E    R 25 E  1/4  S 24   S 19  2016
	Bury the local iron post, 24 ins. long, horizontally, along S side of stainless steel post.
	Set a steel "T-Post" fence post N of cor.
	Cor. falls W, 1 lk. dist. of a barbed wire fence, 4 strand, bears N and S.
	_____
	N. 0°31' E., beginning new measurement.
0.05	Fence, barbed wire, 4 strand, bears E. and W., leave N-S barbed wire fence.
19.90	Fence, barbed wire, 4 strand, bears E. and W., leave N-S barbed wire fence.
40.18	The sec. cor. of secs. 13, 18, 19 and 24, monumented with an iron post, 2 ins. diam., firmly set, projecting 13 ins. above the ground, with brass cap mkd. T17N R24E R25E S13 S18 S24 S19 1921.

Dependent Resurvey of a Portion of the East Boundary  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post N of cor.</p> <hr/> <p>N. 0°31' E., bet. secs. 13 and 18.</p> <p>Over open, rolling terrain.</p>
40.16	<p>Point for the 1/4 sec. cor. of secs. 13 and 18, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 24 ins. in the ground, mkd.</p> <p style="text-align: center;">T 17 N R 24 E    R 25 E</p> <p style="text-align: center;">1/4</p> <p style="text-align: center;">S 13   S 18</p> <p style="text-align: center;">2016</p> <p>Set a steel "T-Post" fence post N of cor.</p>
67.70	<p>Trail road, 8 ft. wide, bears N. 80° E. and S. 80° W.</p>
80.32	<p>The sec. cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 2 ins. diam., firmly set, projecting 15 ins. above the ground, with brass cap mkd. T17N R24E R25E S12 S7 S13 S18 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post near the cor.</p> <hr/>
	<p>N. 0°31' E., bet. secs. 7 and 12.</p> <p>Over open, rolling terrain.</p>
40.14	<p>Point for the 1/4 sec. cor. of secs. 7 and 12, at proportionate dist., there is no remaining evidence of the original monument.</p> <p>Set a standard monument, 24 ins. in the ground, mkd.</p> <p style="text-align: center;">T 17 N R 24 E    R 25 E</p> <p style="text-align: center;">1/4</p> <p style="text-align: center;">S 12   S 7</p> <p style="text-align: center;">2016</p> <p>Set a steel "T-Post" fence post N of cor.</p>

**Dependent Resurvey of a Portion of the East Boundary  
T. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>An iron post, concrete filled, 2 1/2 ins. diam., 24 ins. long, with a brass cap mkd. PE 8174 R21E 1/4 S12 T17N S7 R25E 1971 was found lying loose nearby.</p>
60.21	<p>The N 1/16 sec. cor. of secs. 7 and 12, established by William Young, P.E. 8174, with no plat located indicating the establishment of this cor., monumented with a rebar, 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass washer attached mkd. PE 8174.</p> <p>Set a steel "T-Post" fence post N. of the rebar.</p>
80.29	<p>The sec. cor. of secs. 1, 6, 7 and 12, monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. T17N R24E R25E S1 S6 S12 S7 1921.</p> <p>Add the marks 2016 to the brass cap and set a steel "T-Post" fence post N. of cor.</p>
<hr/> <b>GENERAL DESCRIPTION</b> <hr/>	
<p>The purpose of this survey is to define portions of the boundary of the Petrified Forest National Park and to mark the proposed location of a fence. Set 60D nails, flush with the surface of the ground, with a whisker and a 4-foot lath, inter-visible, and steel "T-post" fence posts set at approximately 1/4 mile distances, to mark the line. Section 36 is State owned land, not acquired by the National Park Service, but the S and E boundaries of the section were resurveyed and marked as per request by the National Park Service.</p> <p>This survey is located approximately 24 miles easterly of Holbrook, Arizona. Access to this project is by way of Petrified Forest Road, then turning east on a trail road designated for authorized personnel only.</p> <p>The terrain is open, rolling hills. The elevation is between 5530 to 5700 ft. above sea level.</p> <p>The mean magnetic declination of 10° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2015 for the dates of the survey.</p> <hr/>	



CERTIFICATE OF SURVEY

I, Craig S. Dukart, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 27th day of September, 2016, I have dependently resurveyed a portion of the Fourth Standard Parallel North (south boundary) and a portion of the east boundary, T. 17 N., R. 24 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, (2009), and in specific manner described in the foregoing field notes.

02/16/2017  
(Date)

Craig S. Dukart  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the Fourth Standard Parallel North (south boundary) and a portion of the east boundary, T. 17 N., R. 24 E., Gila and Salt River Meridian, in the State of Arizona, executed by Craig S. Dukart, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

2/21/2017  
(Date)

[Signature]  
(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. 17 N., R. 24 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~\_\_\_\_\_~~  
~~(Date)~~

~~\_\_\_\_\_~~  
~~(Chief Cadastral Surveyor of Arizona)~~