

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 2 SOUTH, RANGE 13 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Blas J. Urena, Cadastral Surveyor

Under Special Instructions dated March 28, 2017, approved March 28, 2017, which provided for the surveys included under Group No. 1168, and assignment instructions dated March 28, 2017.

Survey commenced April 11, 2017

Survey completed May 16, 2017

INDEX DIAGRAM

TOWNSHIP 2 SOUTH RANGE 13 EAST
GILA & SALT RIVER MERIDIAN, ARIZONA

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T. 2 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 2 South, Range 13 East, Gila and Salt River Meridian, Arizona.

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

Alexander B. Titus, Compassman, Deputy Surveyor, surveyed the South, East and West boundaries, and portions of the subdivisional lines, Township 1 South, Range 13 East, in 1906, (Books 1850 and 1851). William B. Kimmel and Roy J. Gill, United State Surveyors, resurveyed the East boundary of Township 2 South, Range 12 East, and parts of the South boundaries of Township 1 South, Ranges 13 and 14 East, and surveyed the East boundary and the subdivisional lines of Township 2 South, Range 13 East, in 1921, (Book 3392). Jimmie D. Crume, Mineral Surveyor, surveyed Mineral Survey Number 4898, in 2012.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, (2009), and the Special Instructions dated March 28, 2017 for Group Number 1168, Arizona.

The true meridian direction and length of all lines were determined by static or real time kinematic Global Navigation Satellite System observations using Trimble Navigation R8-3 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.

The "ROCKART decals 10-456" referred to in these notes are marked "PROPERTY BOUNDARY (USFS logo) National Forest LAND BEHIND THIS SIGN". The "ROCKART decals 20-127" are marked "(BLM logo) LAND SURVEY MONUMENT Please Do Not Disturb This monument was located as part of an official land survey. It helps define land ownership lines. (Cadastral Survey logo) For further information contact your local BLM office".

Geodetic control was derived from Global Navigation Satellite System (GNSS) static observations, post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations DL3063 AZTP TEMPE CORS ARP, DN6063 AZST SAN TAN PARK CORS ARP, DN4496 AZUP USERY MOUNTAIN PK CORS ARP. The NAD 83(2011) (EPOCH:2010.0000), geographic position of the section corner of sections 5, 6, 7, and 8, Township 2 South, Range 13 East is as follows:

Latitude: 33°16'45.077" N.

Longitude: 111°03'01.327" W.

T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

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The NAD 83 (2011) (EPOCH:2010.0000), geographic position of the 2017 closing corner of Township 2 South, Ranges 12 and 13 East, on the South boundary of section 32, Township 1 South, Range 13 East is as follows:

Latitude: 33°17'33.108" N. Longitude: 111°03'43.693" W

The mean magnetic declination is 10° E.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
William B. Kimmel and Roy J. Gill, in 1921

Beginning at the cor. of secs. 5, 6, 7, and 8, monumented with an iron post, 2 ins. diam., firmly set, projecting 20 ins. above ground, in a mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. T2S R13E S6 S5 S7 S8 1917

Add the marks 2017 to the brass cap.

Rebuild the mound of stone, 5 ft. base, to top of brass cap.

Set a carsonite post, enclosed in a mound of stone, with attached ROCKART decals 10-456 and 20-127, near the cor.

N. 0°05' W., bet. secs. 5 and 6.

Over rocky, broken, and rolling terrain.

39.98 The 1/4 sec. cor. of secs. 5 and 6, monumented with an iron post, 1 in. diam., projecting 30 ins. above ground, in a supporting mound of stone, 3 ft. base, 2 ft. high, with brass cap mkd. 1/4 S6 S5 1917, witnessed by a mound of stone, 4 ft. base, 3 ft. high, 4 ft. W. of cor.

Add the marks T2S R13E 2017 to the brass cap.

Rebuild the supporting mound of stone, 3 1/2 ft. base, to top of brass cap.

N. 0°11' E., beginning new measurement.

19.982 From this point, a rebar, 5/8 in. diam., firmly set, projecting 10 ins. above ground, in a mound of stone, 2 1/2 ft. base, to top of aluminum cap, 1 1/2 ins. diam., mkd. "+", with brass tag, mkd. "RLS 29869", bears East, 4.3 lks. dist.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

CHAINS	
20.163	<p>A local monument, established by Adrian M. Burcham, Arizona R.L.S. No. 41282, in 2012, according to the results of survey recorded in Fee No. 2012-006097, on file at Pinal County Recorder's Office, monumented with an aluminum cap, 3 1/4 ins. diam., nailed to a rock outcrop with a PK nail, 12 x 8 ft., projecting 4 ft. on W. face, mkd. "PLS 41282".</p>
33.616	<p>Point for the closing cor. of secs. 5 and 6, at intersection with the S. bdy. of sec. 33, T. 1 S., R. 13 E.</p> <p>At the true point of intersection.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, to bedrock, in a collar of stone, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 1 S R 13 E</p> <p>S 33</p> <hr style="width: 10%; margin: auto;"/> <p>S 6 S 5</p> <p>T 2 S R 13 E</p> <p>CC</p> <p>2017</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Raise a mound of stone, utilizing the mound of stones from the original closing cor., 4 ft. base, 3 ft. high, S. of cor.</p> <p>From this cor., a fence cor. bears N. 36°50' W., 63.7 lks. dist., barbed wire, 4 strand, with fences extending S. 86° E. and N. 39° W.</p> <p>From this cor. point, the amended original closing cor. of secs. 5 and 6, bears N. 0°11' E., 2.0 lks. dist., monumented with a hole, at the center of a mound of stone, 3 ft. base, 1 1/2 ft. high, with an iron post, loose and on top of the mound of stone, 30 ins. long, 2 ins. diam., filled with concrete, with brass cap, mkd.</p> <div style="text-align: center;"> <p>T 1 S</p> <p>R 13 E</p> <p>S 33</p> <hr style="width: 10%; margin: auto;"/> <p>S 6 S 5</p> <p>R 13 E</p> <p>T 2 S</p> <p>CC</p> <p>1917</p> </div> <p>At the corner point, at the center of the hole.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

CHAINS

Set a magnet, without the white plastic case, in concrete, 12 ins. below the surface of the ground.

Add the marks 2017 AM to the brass cap.

Bury the iron post, horizontally, over the magnet, and set a 60d nail, flush with the surface of the ground, directly over the magnet.

Raise a mound of stone, over the 60d nail, 1 1/2 ft. base, 1 ft. high.

From this same cor. point, the 1/4 sec. cor. of sec. 33 only, on the S. bdy. of T. 1 S., R. 13 E., bears S. 89°54' E., 21.32 chs. dist., as described in the field notes of T. 1 S., R. 13 E., executed concurrently under this same group.

From this same cor. point, the cor. of secs. 32 and 33 only, on the S. bdy. of T. 1 S., R. 13 E., bears N. 89°54' W., 18.78 chs. dist., monumented with a + cut on rock outcrop, with 4 grooves E. and 2 grooves W. of +, witnesses by a mound of stone, 3 ft. base, 2 ft. high, 2 ft. N. of +.

from which the remaining original bearing tree

A decayed and down tree, 4 ins. diam., bears S. 64°29' W., 1.386 chs. dist., with some scribe marks visible but not legible on an open blaze. (Record: S. 59°40' W., 138 lks.)

and from which the bearing tree established by Evert D. Bunger, in 2010, according to the results of survey recorded in Fee No. 2011-004480, on file at Pinal County Recorder's Office.

A pine, 6 ins. diam., bears N. 64°38' E., 43.3 lks. (28.6 ft.) dist., with no marks visible.

and from which a new bearing object

A point on a rock outcrop, 10 x 10 ft., projecting 2 ft. on the E. side, bears S. 43°06' W., 24.9 lks. dist., mkd. BO "+".

From the cor. of secs. 5, 6, 7, and 8.

N. 89°58' W., bet. secs. 6 and 7.

Over rocky, broken, and mountainous terrain.

Set carsonite posts, enclosed in mounds of stone, with attached ROCKART decal 10-456, at intervals of 4 chains +/-.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

CHAINS									
39.95	<p>The 1/4 sec. cor. of secs. 6 and 7, monumented with an iron post, 1 in diam., projecting 36 ins. above a rock outcrop, 7 x 5 ft., projecting 6 ft. on the N. side, in a supporting mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. S6 1/4 S7 1917, witnessed by a mound of stone, 2 ft. base, 1 1/2 ft. high, SE of cor.</p> <p>Add the marks T2S R13E 2017 to the brass cap.</p> <p>Rebuild the supporting mound of stone, 4 ft. base, to top of brass cap.</p> <p>Set a carsonite post, enclosed in a mound of stone, with attached ROCKART decals 10-456 and 20-127, near the cor.</p> <hr/> <p>N. 89°57' W., beginning new measurement.</p> <p>Set carsonite posts, enclosed in mounds of stone, with attached ROCKART decal 10-456, at intervals of 4 chains +/-.</p>								
15.324	<p>The original closing cor. of secs. 6 and 7, monumented with an iron post, 3 ft. long, 2 ins. diam., on top of a boulder in place, 12 x 7 ft., projecting 2 1/2 ft. on W. face, in a supporting mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd.</p> <div style="text-align: center; margin: 20px 0;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">T 2 S C</td> <td style="padding: 0 10px;">T 2 S</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">R 12 E C</td> <td style="padding: 0 10px;">R 13 E</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">S 1</td> <td style="padding: 0 10px;">S 6</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 10px;"></td> <td style="padding: 0 10px;">S 7</td> </tr> </table> <p style="margin-top: 10px;">1917</p> </div> <p>Witnessed by a mound of stone, 3 1/2 ft. base, 2 1/2 ft. high, 1.5 ft. E. of closing cor.</p> <p>Remove the iron post.</p> <p>At the corner point</p> <p>Scribe a "+", on top of the same boulder in place.</p>	T 2 S C	T 2 S	R 12 E C	R 13 E	S 1	S 6		S 7
T 2 S C	T 2 S								
R 12 E C	R 13 E								
S 1	S 6								
	S 7								
15.341	<p>Point for the closing cor. of secs. 5 and 6, at intersection with the E. bdy. of sec. 1, T. 2 S., R. 12 E., identical with the E. bdy. of Tract 37, of the same Tp.</p> <p>Set the original iron post, 36 ins. long, 2 ins. diam., filled with concrete, on top of the same boulder in place, in a supporting mound of stone, utilizing the stones of the original supporting mound of stone, 4 1/2 ft. base, to top of brass cap, remark to read</p>								

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

CHAINS

T 2 S	T 2 S
R 12 E	R 13 E
S 1	S 6 C
	S 7 C
	2017
	1917

Set a carsonite post, enclosed in a mound of stone, with attached ROCKART decals 10-456 and 20-127, SE of cor.

The "+" cut marking the location of the original closing cor., is now under portions of the supporting mound of stone of this closing cor.

The original mound of stone, witnessing the original closing cor., is located 2.6 ft. E. of this closing cor.

From this cor. point, the 1/4 sec. cor. of sec. 1 only, on the E. bdy. of T. 2 S., R. 12 E., identical with the E. bdy. of Tract 37, of the same Tp., bears N. 0°03' E., 33.872 chs. dist., monumented with a volcanic stone, 30 x 12 ins., firmly set, projecting 2 ins. above ground, mkd. 1/4 on W. face, witnessed by a steel sign post, in mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W. of cor.

From this same cor. point, the cor. of secs. 1 and 12 only, on the E. bdy. of T. 2 S., R. 12 E., identical with the E. bdy. of Tract 37, of the same Tp., bears S. 0°03' W., 5.608 chs. dist., monumented with a volcanic boulder in place, 4 x 3 ft., projecting 3 1/2 ft. on W. face, mkd. with "+" on top, and 1 groove N. and 5 grooves S. of the "+" mark, witnessed by a mound of stone, 3 ft. base, 3 1/2 ft. high, 2 ft. N. of + mark.

T. 2 S., R. 13 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The lines surveyed and resurveyed within T. 2 S., R. 13 E. are located approximately 2.5 miles S. 75° E., of Superior, Arizona. The terrain is extremely rugged, broken and mountainous. The elevation ranges from 4122 to 4466 feet above sea level.

Access to the area surveyed and resurveyed is provided by U. S. Highway No. 60, Magma Mine Road, and U. S. Forest service Route 315.

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 survey.

CERTIFICATE OF SURVEY

I, Blas J. Urena, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 28th day of March, 2017, I have dependently resurveyed a portion of the subdivisional lines, T. 2 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 Surveying Instructions, (2009), and in specific manner described in the foregoing field notes.

6/25/2018
(Date)

Blas J. Urena
(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. 2 S., R. 13 E., Gila and Salt River Meridian, in the State of Arizona, executed by Blas J. Urena, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

6/28/2018
(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. 2 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)~~