

ORIGINAL

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

FIELD NOTES
OF THE
THE DEPENDENT RESURVEY OF A PORTION
OF THE SOUTH AND WEST BOUNDARIES, **TOWNSHIP 11 SOUTH, RANGE 16 EAST,**
AND THE METES-AND-BOUNDS SURVEY OF A PORTION
OF THE
PUSCH RIDGE WILDERNESS BOUNDARY,
WITHIN THE CORONADO NATIONAL FOREST, IN **TOWNSHIP 11 SOUTH, RANGE 16 EAST,**
AND **UNSURVEYED TOWNSHIPS 11 SOUTH RANGE 15 EAST AND**
TOWNSHIPS 12 SOUTH RANGE 16 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Rosendo Ramos Serrano, Cadastral Surveyor

Under Special Instructions dated May 11, 2020, approved May 11, 2020, which provided for the surveys included under Group No. 1203, and assignment instructions dated May 11, 2020.

Survey commenced May 11, 2020

Survey completed May 14, 2020

INDEX DIAGRAM

TOWNSHIP 11 SOUTH RANGE 16 EAST
GILA & SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
7	8	9	10	11	12
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4 31 3	32	33	34	35	36

Metes-and-bounds Pages 5-9

T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the Dependent Resurvey of a portion of the south and west boundaries, Township 11 South, Range 16 East, and the metes-and-bounds survey of a portion of the Pusch Ridge Wilderness Boundary, within the Coronado National Forest, in Township 11 South, Range 16 East, and unsurveyed Township 11 South, Range 15 East and Township 12 South, Range 16 East, of The Gila and Salt River Meridian, Arizona.

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

William B. Alexander, U.S. Deputy Surveyor, surveyed portions of the south and west boundaries of Township 11 South, Range 16 East, in 1905, recorded in Book 1898. Sidney E. Blout, U.S. Cadastral Engineer, Benjamin J. Kinsey, U.S. Surveyor and Charles E. Hunter U.S. Transitman completed the south and east boundaries of Township 11 South, Range 16 East in 1927, recorded in Book 3808. Stephen K. Hansen, Cadastral Surveyor, resurveyed portions of the south and west boundaries of Township 11 South, Range 16 East, in 1992, recorded in Book 5386. Ralph L. Motz., U.S. Mineral Surveyor, surveyed Mineral Survey No. 4238 A & B, IN 1941.

The thirteen courses herein described, with the exception of courses AP 13 - AP 14 and AP 14 - AP 15, follow those shown on the map and legal description per Public Law 95-237, "Endangered American Wilderness Act of 1978". AP 14 was adjusted to avoid a feature incompatible with Wilderness designation (cell tower). AP 15 was adjusted to avoid steep terrain.

Measurements were made with the Global Navigation Satellite System (GNSS), utilizing static relative and real time kinematic positioning techniques. Distances are horizontal distances reduced to their sea level equivalent. The azimuth refers to the true meridian.

This survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions (2009), and Special Instructions for Group No. 1199, Arizona, dated October 24, 2019.

The geographic position in, NAD83(2011), epoch:2010.00, for the corners below were determined by GNSS observations utilizing the National Geodetic Survey, Online Users Position Users Service (OPUS), to a Network Accuracy, with a maximum peak-to-peak separation for each component of the computed position, of less than or equal to 0.05 meters, semi-major axis 95% error ellipse, as defined in, Standards For The Positional Accuracy Of Cadastral Surveys When Using When Using Global Navigation Satellite Systems (GNSS), dated February 23, 2009.

The geographic position of the Angle Point No. 1, is as follows:

Latitude: 32° 25' 20.844" N. Longitude: 110° 44' 36.046" W.
NAD 83

The geographic position of the Angle Point No. 15, is as follows:

T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona

CHAINS

Latitude: 32° 26' 18.848" N. Longitude: 110° 47' 09.669" W.
NAD 83

The mean magnetic declination is 9° 45' E.

**Dependent Resurvey of a Portion of the South Boundary,
T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Stephen K. Hansen, in 1992

Beginning at the cor. of secs. 31 and 6 on the S. bdy. of the tp.,
monumented with a stainless steel post, 2 1/2 ins. diam. firmly
set, projecting 2 ins. above ground, with a brass cap mkd. T11S
R16E 1/4 S31 S6 T12S 1993, from which the remaining bearing trees

A fir, 8 ins. diam., bears N. 3° E., 20 lks., with a open
blaze and scribed, 1/4 S31 BT.

A decomposing dead and down fir tree, found lying on top
of the stainless steel post. No visible marks. Tree stump
bears S. 6 3/4° E., 21.5 lks.

Add the marks 2020 to the brass cap.

From this corner point, Angle Point No. 1, bears S. 63°50' E.,
61.99 chs. dist., hereinafter described.

S. 89°53' W., bet. secs. 6 and 31.

11.43 Intersect line 3-4, Pusch Ridge Wilderness Boundary, not
monumented, from which Angle Point No. 3 bears S. 18°45' E.,
10.27 chs. dist. and Angle Point No. 4 bears N. 18°45' W., 15.92
chs. dist., both hereinafter described.

S. 89°53' W., beginning new measurement.

38.17 The cor. of Tps. 11 and 12 S., Rs. 15 and 16 E., monumented with
a stainless steel post, 2 1/2 ins. diam., firmly set, projecting
1 in. above ground, with a brass cap mkd. T11S R15E R6E S36 S31
S1 S6 T12S 1993, from which the bearing objects

A pine, 7 ins. diam., bears N. 59° E., 16 lks. dist., with
partially healed-blazed, visible scribed "BT", no other
markings are visible.

A rock outcrop, 4 x 3 x 2 ft. high, bears S. 38° E.,
38.5 lks. dist., with X BO chiseled on the NW face.

**Dependent Resurvey of a Portion of the South Boundary,
T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona**

CHAINS

A rock outcrop, 4 x 2 x 1 ft. high, bears S. 45° W.,
8 lks. dist., no visible marks.

A rock outcrop, 8 x 3 x 2 ft. high, bears N. 13 1/2° W.,
17 lks. dist., no visible marks.

Add the marks 2020 to the brass cap.

From this corner point, Angle Point No. 1, bears S. 73°47' E.,
97.69 chs. dist., hereinafter described.

**Dependent Resurvey of a Portion of the West Boundary,
T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Stephen K. Hansen, in 1993

From the cor. of Tps. 11 and 12 S., Rs. 15 and 16 E., hereinbefore
described.

N. 0°08' E., bet. secs. 31 and 36, on the W. bdy. of the Tp.

33.24 Intersect line 7-8, Pusch Ridge Wilderness Boundary, not
monumented, from which Angle Point No. 7 bears S. 39°18' E.,
14.02 chs. dist. and Angle Point No. 8 bears N. 39°18' W.,
12.61 chs. dist. both hereinafter described.

N. 0°8' E., beginning new measurement.

40.00 The 1/4 sec. cor. of secs. 31 and 36, monumented with a stainless
steel post, 2 1/2 ins. diam. firmly set, projecting 17 ins. above
ground, with a fallen and scattered mound of stone, with a brass
cap mkd. T11S R15E R16E 1/4 S36 S31 1993, from which the bearing
trees

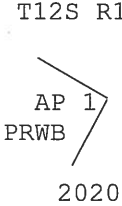
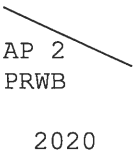
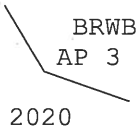
A dead, standing and charred oak, 5 ins. diam., bears
N. 63 1/2° E., 28 lks. dist., with healed blaze.

A dead, standing and charred oak, 7 ins. diam., bears
N. 33 1/2° W., 6 lks. dist., with burned blaze, no visible
marks.

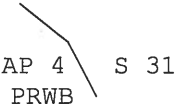
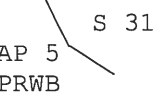
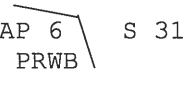
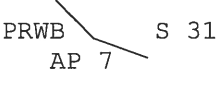
Rebuild supporting mound of stone, 4 ft. base to top.

Add the marks 2020 to the brass cap.


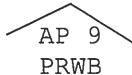
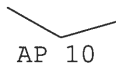
Metes-and-Bounds Survey of a portion of the
 Pusch Ridge Wilderness Boundary, T. 11 S., R. 16 E., unsurveyed,
 T. 11 S., R. 15 E. and T. 12 S., R. 16 E.,
 Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From Angle Point No. 1, in section 6, of unsurveyed T. 12 S., R. 16 E., set a 3/4 in. diam., aluminum drive rod, 24 ins. long, 22 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p> <p style="text-align: center;">T12S R16E</p>  <p style="text-align: center;">2020</p>
33.18	<p>N. 73°37' W., on line 1-2.</p> <p>Point for Angle Point No. 2</p> <p>Set a rebar, 5/8 in. diam., 24 ins. long, 17 ins. in the ground, with a 2 ins. diam., brass cap mkd.</p>
	<p style="text-align: center;">T12S R16E</p>  <p style="text-align: center;">2020</p>
32.99	<p>N. 75°32' W., on line 2-3.</p> <p>Point for Angle Point No. 3</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 30 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p>
	<p style="text-align: center;">T12S R16E</p>  <p style="text-align: center;">2020</p>
10.27	<p>N. 18°45' W., on line 3-4.</p> <p>Intersect the S. bdy. bet. secs. 6 and 31 of T. 11 S., R. 16 E., hereinbefore described.</p>
26.19	<p>Point for Angle Point No. 4</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 24 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p>


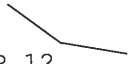
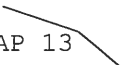
Metes-and-Bounds Survey of a portion of the
 Pusch Ridge Wilderness Boundary, T. 11 S., R. 16 E., unsurveyed,
 T. 11 S., R. 15 E. and T. 12 S., R. 16 E.,
 Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T11S R16E</p>  <p style="text-align: center;">2020</p>
4.81	<p>N. 49°53' W., on line 4-5.</p> <p>Point for Angle Point No. 5</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 34 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p>
	<p style="text-align: center;">T11S R16E</p>  <p style="text-align: center;">2020</p>
3.43	<p>N. 16°37' W., on line 5-6.</p> <p>Point for Angle Point No. 6</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 24 ins. in the ground to bedrock, in a mound of stone 2 1/2 ft. base, 1 ft. high, with a 3 1/4 ins. diam., aluminum cap mkd.</p>
	<p style="text-align: center;">T11S R16E</p>  <p style="text-align: center;">2020</p>
8.04	<p>N. 83°46' W., on line 6-7.</p> <p>Point for Angle Point No. 7</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 32 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p>
	<p style="text-align: center;">T11S R16E</p>  <p style="text-align: center;">2020</p>

Metes-and-Bounds Survey of a portion of the
Pusch Ridge Wilderness Boundary, T. 11 S., R. 16 E., unsurveyed,
T. 11 S., R. 15 E. and T. 12 S., R. 16 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<hr style="width: 20%; margin: 0 auto;"/>
	N. 39°18' W., on line 7-8.
14.02	Intersect the W. bdy. bet. secs. 31 and 36 of T. 11 S., R. 16 E., hereinbefore described.
26.64	Point for Angle Point No. 8
	Set a rebar, 5/8 in. diam., 24 ins. long, 11 ins. in the ground, in a mound of stone, 3 ft. base, to top, with a 2 ins. diam., brass cap mkd.
	T11S R15E  AP 8 PRWB 2020
	<hr style="width: 20%; margin: 0 auto;"/>
	N. 56°38' W., on line 8-9.
11.44	Point for Angle Point No. 9
	Set a rebar, 5/8 in. diam., 24 ins. long, 15 ins. in the ground, in a mound of stone, 2 1/2 ft. base, to top, with a 2 ins. diam., brass cap mkd.
	T11S R15E  AP 9 PRWB 2020
	<hr style="width: 20%; margin: 0 auto;"/>
	S. 81°28' W., on line 9-10.
5.66	Point for Angle Point No. 10
	Set a rebar, 5/8 in. diam., 24 ins. long, 14 ins. in the ground, in a mound of stone, 3 1/2 ft. base, to top, with a 2 ins. diam., brass cap mkd.
	T11S R15E  AP 10 PRWB 2020
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Metes-and-Bounds Survey of a portion of the
 Pusch Ridge Wilderness Boundary, T. 11 S., R. 16 E., unsurveyed,
 T. 11 S., R. 15 E. and T. 12 S., R. 16 E.,
 Gila and Salt River Meridian, Arizona

CHAINS	<p>N. 66°17' W., on line 10-11.</p>
14.54	<p>Point for Angle Point No. 11</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 18 ins. in the ground to bedrock, in a supporting mound of stone, 2 1/2 ft. base, to top, with a 3 1/4 ins. diam., aluminum cap mkd.</p> <p style="text-align: center;">T11S R15E</p> <div style="text-align: center;">  <p>AP 11 PRWB</p> </div> <p style="text-align: center;">2020</p> <hr style="width: 30%; margin: auto;"/>
9.91	<p>S. 80°18' W., on line 11-12.</p> <p>Point for Angle Point No. 12</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 25 ins. in the ground to bedrock, in a supporting mound of stone, 2 ft. base, to top, with a 3 1/4 ins. diam., aluminum cap mkd.</p> <p style="text-align: center;">T11S R15E</p> <div style="text-align: center;">  <p>AP 12 PRWB</p> </div> <p style="text-align: center;">2020</p> <hr style="width: 30%; margin: auto;"/>
20.06	<p>N. 43°03' W., on line 12-13.</p> <p>Point for Angle Point No. 13</p> <p>Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 34 ins. in the ground, with a 3 1/4 ins. diam., aluminum cap mkd.</p> <p style="text-align: center;">T11S R15E</p> <div style="text-align: center;">  <p>AP 13 PRWB</p> </div> <p style="text-align: center;">2020</p> <hr style="width: 30%; margin: auto;"/>
18.16	<p>N. 66°00' W., on line 13-14.</p> <p>Point for Angle Point No. 14</p>

Metes-and-Bounds Survey of a portion of the
 Pusch Ridge Wilderness Boundary, T. 11 S., R. 16 E., unsurveyed,
 T. 11 S., R. 15 E. and T. 12 S., R. 16 E.,
 Gila and Salt River Meridian, Arizona

CHAINS

Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 32 ins. in the ground, to bedrock, with a 3 1/4 ins. diam., aluminum cap mkd.

T11S R15E



AP 14
PRWB

2020

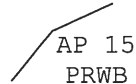
S. 65°58' W., on line 14-15.

32.13

Point for Angle Point No. 15

Set a 3/4 in. diam., aluminum drive rod, 36 ins. long, 26 ins. in the ground, to bedrock, with a 3 1/4 ins. diam., aluminum cap mkd.

T11S R15E



AP 15
PRWB

2020

T. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

A portion of the Pusch Ridge Wilderness Boundary (P.R.W.), is located approximately 3/4 mile south of Summerhaven, Arizona. Access is provided by Mt. Lemmon Highway via Tucson and Oracle Control Road via Oracle. The E. Cap Rock Trail provide access through the northwesterly portion of the P.R.W. The elevation of the survey varies from 7,400 to 9,043 feet above sea level.

The terrain is predominantly rolling and rocky terrain, with limestone and granite, through fir, aspen, oak and ponderosa.

No mineral deposit or activity was noted during the course of the survey.


The principal use of the area is outdoor recreation. There are numerous year round residences and summer homes in the area.

The mean magnetic declination of 9° 45' E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model 2020 for the dates of survey.

CERTIFICATE OF SURVEY

I, Rosendo Ramos Serrano, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the May 11, 2020. I have dependently resurveyed a portion of the south and west boundaries, Township 11 South, Range 16 East, and the metes-and-bounds survey of a portion of the Pusch Ridge Wilderness Boundary, within the Coronado National Forest, in Township 11 South, Range 16 East, and unsurveyed Township 11 South, Range 15 East and Township 12 South, Range 16 East, 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, 1973, and in specific manner described in the foregoing field notes.

8/3/2020
(Date)

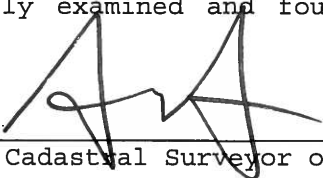

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the south and west boundaries, Township 11 South, Range 16 East, and the metes-and-bounds survey of a portion of the Pusch Ridge Wilderness Boundary, within the Coronado National Forest, in Township 11 South, Range 16 East, and unsurveyed Township 11 South, Range 15 East and Township 12 South, Range 16 East, Gila and Salt River Meridian, in the State of Arizona, executed by Rosendo Ramos Serrano, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/4/2020
(Date)


(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. 11 S., R. 16 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Date)

(Chief Cadastral Surveyor of Arizona)