

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

DEPENDENT RESURVEY OF A PORTION OF

THE EAST BOUNDARY

AND

THE METES-AND-BOUNDS SURVEY OF THE

SOUTH MARICOPA MOUNTAINS WILDERNESS AREA BOUNDARY

IN

TOWNSHIP 5 SOUTH, RANGE 3 WEST

Of the Gila and Salt River Meridian,
In the State of Arizona

EXECUTED BY

Robert C. Umbanhowar

Cadastral Surveyor

Under Special Instructions dated November 8, 1993, approved November 8, 1993, which provided for the surveys included under Group Number 764, and assignment instructions dated November 8, 1993.

Survey Commenced November 15, 1993

Survey Completed May 12, 1994

INDEX DIAGRAM

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T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the east boundary and the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 3 West, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows: The First Stan. Par. South through Range 3 West and the east boundary were surveyed by Horace M. Muscott in 1938. The subdivisional lines were surveyed by Horace M. Muscott and Frank Motech in 1938. The subdivisional lines of T. 5 S., R. 2 W. were surveyed by Louis D. Gilbert in 1970.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated November 8, 1993, for Group No. 764, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of all lines were determined by direct hour angle observations on the sun, and refer to the true meridian. Distances and angles were measured with a Pentax PTS-iii05 and a Nikon NTD-4 total station instruments.

The geographic position of the stan. cor. of Tps. 5 S., Rs. 2 and 3 W., was determined by the technique of static differential positioning using Ashtech models M-XII and MS-XII geodetic units. U.S. Coast and Geodetic Survey triangulation stations "OCO 1936" and "BIG 1960" were used as the control stations. The elevation and coordinates refer to the top of the monument.

Elevation	Latitude	Longitude
1280.78 ft.	32°56'31.212" N.	112°30'43.742" W. NAD27

The mean magnetic declination, as taken from quadrangle map "BOSQUE, ARIZ.", published in 1973 by U.S. Geological Survey, is 13 1/2° E.

Dependent Resurvey of a Portion of the East Boundary,
T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">Restoring the survey executed by Horace M. Muscott in 1938</p> <hr/> <p>Beginning at the stan. cor. of Tps. 5 S., Rs. 2 and 3 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. SC T5S R3W R2W S36 S31 1938, from which the original bearing trees</p> <p style="padding-left: 40px;">An ironwood, 7 ins. diam., bears N. 12 1/2° E., 400 lks. dist., mkd. T5S R2W S31 SC BT.</p> <p style="padding-left: 40px;">An ironwood, 12 ins. diam., bears N. 45 3/4° W., 498 lks. dist., no legible marks visible.</p> <p>Add the marks 1994 to the brass cap.</p> <p>N. 0°01' E., bet. secs. 31 and 36, along the South Maricopa Mountains Wilderness Area Bdy.</p>
40.00	<p>The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 13 ins. above ground, with brass cap mkd. 1/4 S36 S31 1938, from which the original bearing trees</p> <p style="padding-left: 40px;">A dead ironwood, bears N. 21° E., 145 lks. dist., no legible marks visible. (Record: Paloverde, N. 21 3/4° E., 143 lks. dist.)</p> <p style="padding-left: 40px;">An ironwood, 18 ins. diam., bears N. 44 1/2° W., 459 lks. dist., with marks S36 BT in a partially healed blaze. (Record: 456 lks. dist.)</p> <p>Add the marks T5S R2W R3W SMMWA 1994 to the brass cap.</p> <hr/> <p>N. 0°01' E., beginning new measurement.</p>
40.00	<p>The cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. T5S R3W R2W S25 S30 S36 S31 1938, from which the original bearing trees</p> <p style="padding-left: 40px;">An ironwood, 11 ins. diam., bears N. 71 1/2° E., 222 lks. dist., no legible marks visible. (1970 Record: N. 72 1/2° E.)</p> <p style="padding-left: 40px;">An ironwood, 7 ins. diam., bears S. 13 3/4° E., 29 lks. dist., mkd. T5S R2W S31 BT. (Record: S. 16° E.).</p>

Dependent Resurvey of a Portion of the East Boundary,
T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>An ironwood, 14 ins. diam., bears S. 44° W., 351 lks. dist., with marks T5S R3W S in a partially healed blaze.</p> <p>An ironwood, 8 ins. diam., bears N. 72 1/2° W., 68 lks. dist., no legible marks visible.</p> <p>Add the marks SMMWA 1994 to the brass cap.</p>
40.00	<p>N. 0°01' E., bet. secs. 25 and 30, along the South Maricopa Mountains Wilderness Area Bdy.</p> <p>The 1/4 sec. cor. of secs. 25 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. 1/4 S25 S30 1938, from which the original bearing trees</p> <p>A paloverde, 10 ins. diam., bears N. 20 3/4° E., 470 lks. dist., no legible marks visible.</p> <p>A paloverde, 13 ins. diam., bears S. 53 3/4° W., 253 lks. dist., no legible marks visible.</p> <p>Add the marks T5S R3W R2W SMMWA 1994 to the brass cap.</p>
40.02	<p>N. 0°01' E., beginning new measurement.</p> <p>The cor. of secs. 19, 24, 25 and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 13 ins. above ground, with brass cap mkd. T5S R3W R2W S24 S19 S25 S30 1938, from which the remaining original bearing trees</p> <p>An ironwood, 15 ins. diam., bears N. 19 1/4° E., 164 lks. dist., mkd. T5S R2W S19 BT.</p> <p>An ironwood, 10 ins. diam., bears S. 17° E., 77 lks. dist., with illegible marks.</p> <p>An ironwood, 9 ins. diam., bears N. 2 3/4° W., 403 lks. dist., with illegible marks. (Record: N. 3° W.)</p> <p>Add the marks SMMWA 1994 to the brass cap.</p>
22.80	<p>N. 0°02' E., bet. secs. 19 and 24, along the South Maricopa Mountains Wilderness Area Bdy.</p> <p>Point for AP 12, hereinafter described.</p> <p>Leave the South Maricopa Mountains Wilderness Area Bdy.</p>

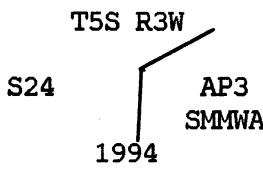
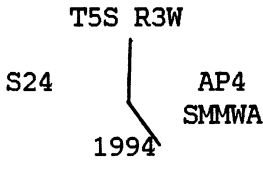
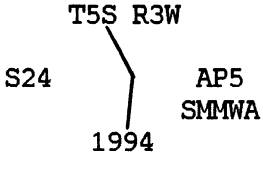
Dependent Resurvey of a Portion of the East Boundary,
T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
40.03	<p>The 1/4 sec. cor. of secs. 19 and 24, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above ground, in a mound of stone, 2 1/2 ft. base to top, with brass cap mkd. 1/4 S24 S19 1938.</p> <p>Add the marks SMMWA 1994 to the brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' E., beginning new measurement.</p>
19.99	<p>Point for the N. 1/16 sec. cor. of secs. 19 and 24, identical with AP 1 on the South Maricopa Mountains Wilderness Area Bdy.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 20px 0;"> <p>T5S R3W R2W N 1/16 S24 S19</p> <hr style="width: 10%; margin: 0 auto;"/> <p>SMMWA 1994</p> </div> <p>from which</p> <p style="margin-left: 40px;">A paloverde, 10 ins. diam., bears N. 67° E., 50 lks. dist., mkd. N 1/16 S19 BT on the bark.</p> <p style="margin-left: 40px;">A paloverde, 9 ins. diam., bears S. 40° W., 42 lks. dist., mkd. N 1/16 S24 BT on the bark.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located 50 lks. N. of center of wash, 12 lks. wide, 1 ft. deep, drains WSW.</p>
39.98	<p>The cor. of secs. 13, 18, 19 and 24, monumented with an iron post, 2 ins. diam., firmly set, projecting 30 ins. above ground, supported in a mound of stone, 5 ft. base to top, with brass cap mkd. T5S R3W R2W S13 S18 S24 S19 1938, from which the original bearing trees</p> <p style="margin-left: 40px;">An ironwood, 24 ins. diam., bears N. 49 1/2° E., 225 lks. dist., with illegible marks.</p> <p style="margin-left: 40px;">A paloverde, 10 ins. diam., bears S. 41 3/4° E., 84 lks. dist., with illegible marks.</p>

Dependent Resurvey of a Portion of the East Boundary,
T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>A paloverde, 14 ins. diam., bears S. 41 1/4° E., 122 lks. dist., with illegible marks. (Record: 120 lks. dist.)</p> <p>An ironwood, 13 ins. diam., bears N. 57 1/2° W., 150 lks. dist., with illegible marks.</p> <p>Add the marks 1994 to the brass cap.</p>
	<p style="text-align: center;">Metes-and-Bounds Survey of the South Maricopa Mountains Wilderness Area Boundary, T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona</p>
	<p style="text-align: center;">In Sec. 24</p> <hr style="width: 20%; margin: auto;"/> <p>From AP 1, identical with the N. 1/16 sec. cor. of secs. 19 and 24, on the E. bdy. of the Tp., hereinbefore described.</p> <p>N. 89°59' W., on line 1-2.</p>
13.47	<p>Point for AP 2.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T5S R3W</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 45 lks. S. of trail road, bears ENE. and WSW.</p>
7.48	<hr style="width: 20%; margin: auto;"/> <p>S. 69°34' W., on line 2-3.</p> <p>Point for AP 3.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p>

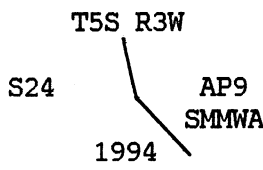
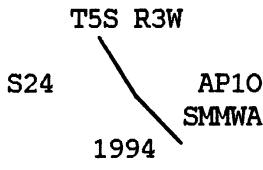
Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Boundary,
 T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<div style="text-align: center;">  </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 55 lks. SE. of intersection of trail roads, bears ENE., WSW., and SSW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 3°11' W., on line 3-4.</p> <p>7.41 Point for AP 4.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 55 lks. E. of trail road, bears SE. and N.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 31°47' E., on line 4-5.</p> <p>3.51 Point for AP 5.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 42 lks. E. of trail road, bears SSW. and NNW.</p> <hr style="width: 20%; margin: 10px auto;"/>

Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Boundary,
 T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
5.56	<p>S. 4°18' W., on line 5-6.</p> <p>Point for AP 6.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div data-bbox="792 510 1057 667" style="text-align: center;"> <p>T5S R3W</p> <p>S24 AP6 SMMWA</p> <p>1994</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 55 lks. E. of trail road, bears SE. and N.</p> <hr style="width: 20%; margin: 10px auto;"/>
8.56	<p>S. 46°01' E., on line 6-7.</p> <p>Point for AP 7.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.</p> <div data-bbox="792 1115 1057 1272" style="text-align: center;"> <p>T5S R3W</p> <p>S24 AP7 SMMWA</p> <p>1994</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 68 lks. E. of trail road, bears SE. and NW.</p> <hr style="width: 20%; margin: 10px auto;"/>
2.62	<p>S. 21°17' E., on line 7-8.</p> <p>Point for AP 8.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <div data-bbox="792 1719 1057 1877" style="text-align: center;"> <p>T5S R3W</p> <p>S24 AP8 SMMWA</p> <p>1994</p> </div>

Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Boundary,
 T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 44 lks. E. of trail road, bears S. and NNE.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 9°17' E., on line 8-9.</p>
4.33	<p>Point for AP 9.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p style="margin: 0;">T5S R3W</p> <p style="margin: 0;">S24 AP9</p> <p style="margin: 0;"> SMMWA</p> <p style="margin: 0;"> 1994</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 44 lks. E. of trail road, bears S. and NNE.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 41°53' E., on line 9-10.</p>
5.32	<p>Point for AP 10.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p style="margin: 0;">T5S R3W</p> <p style="margin: 0;">S24 AP10</p> <p style="margin: 0;"> SMMWA</p> <p style="margin: 0;"> 1994</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case inside the stainless steel post.</p> <p>Cor. is located 53 lks. E. of trail road, bears NNW and SSW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 58°28' E., on line 10-11.</p>
6.19	<p>Point for AP 11.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.</p>

T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

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The soil is rocky and does not promote much usable vegetation. An abundance of saguaro and other various cacti, and greasewood, abound, along with some paloverde and ironwood trees.

There are various range improvements in the township consisting of improved dirt roads, corrals and water tanks.

Land usage consists primarily of grazing cattle. Other significant uses of the land would be for recreational and hunting purposes. Quail, javelina, rabbits and lizards are abundant in the area encompassed by this survey.

Description of the South Maricopa Mountains Wilderness Area Bdy.
T. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona

The following description is for informational purposes only.

Beginning at Angle Point 1, identical with the N. 1/16 sec. cor. of secs. 19 and 24, on the E. bdy. of the Tp.

thence N. 89°59' W., 13.47 chs. dist., to Angle Point 2;
 thence S. 69°34' W., 7.48 chs. dist., to Angle Point 3;
 thence S. 3°11' W., 7.41 chs. dist., to Angle Point 4;
 thence S. 31°47' E., 3.51 chs. dist., to Angle Point 5;
 thence S. 4°18' W., 5.56 chs. dist., to Angle Point 6;
 thence S. 46°01' E., 8.56 chs. dist., to Angle Point 7;
 thence S. 21°17' E., 2.62 chs. dist., to Angle Point 8;
 thence S. 9°17' E., 4.33 chs. dist., to Angle Point 9;
 thence S. 41°53' E., 5.32 chs. dist., to Angle Point 10;
 thence S. 58°28' E., 6.19 chs. dist., to Angle Point 11;
 thence N. 67°24' E., 3.05 chs. dist., to Angle Point 12; on
 the line bet. secs. 19 and 24, on the E. bdy. of the Tp;
 thence S. 0°02' W., 22.80 chs. dist. bet. secs. 19 and 24, to
 the cor. of secs. 19, 24, 25 and 30;
 thence S. 0°01' W., 40.02 chs. dist. bet. secs. 25 and 30, to
 the 1/4 sec. cor. of secs. 25 and 30;
 thence S. 0°01' W., 40.00 chs. dist. bet. secs. 25 and 30, to
 the cor. of secs. 25, 30, 31 and 36;
 thence S. 0°01' W., 40.00 chs. dist. bet. secs. 31 and 36, to
 the 1/4 sec. cor. of secs. 31 and 36;
 thence S. 0°01' W., 40.00 chs. dist. bet. secs. 31 and 36, to
 the stan. cor. of Tps. 5 S., Rs. 2 and 3 W.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gordon R. Babel	Surveying Technician
Jeff A. Hill	Surveying Technician
Clinton T. Lancaster	Surveying Technician
Timothy F. Patro	Surveying Technician
Mark R. Searles	Surveying Technician

CERTIFICATE OF SURVEY

I, Robert C. Umbanhowar, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 8th day of November, 1993, I have dependently resurveyed a portion of the East boundary and executed the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 3 West, 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; 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.

9-25-97
(Date)

Robert C. Umbanhowar
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the survey of the dependent resurvey of a portion of the East boundary and the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 3 West, Gila and Salt River Meridian, Arizona, executed by Robert C. Umbanhowar, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

3/30/98
(Date)

Kenny D. Ravnikar
(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. 5 S., R. 3 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

~~_____
(Chief Cadastral Surveyor of Arizona)~~