

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

DEPENDENT RESURVEY OF A PORTION OF

THE FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 1 EAST

AND A PORTION OF THE SUBDIVISIONAL LINES,

AND THE METES-AND-BOUNDS SURVEY

OF THE

SOUTH MARICOPA MOUNTAINS WILDERNESS AREA BOUNDARY

IN TOWNSHIP 5 SOUTH, RANGE 1 EAST

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 Nov. 15, 1993

Survey Completed May 12, 1994

INDEX DIAGRAM

TOWNSHIP 5 SOUTH, RANGE 1 EAST,

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Metes-and-Bounds Survey of the SMMWA pgs. 5-7

T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p>The following field notes describe the dependent resurvey of a portion of the First Standard Parallel South through Range 1 East and a portion of the subdivisional lines, and the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 1 East, Gila and Salt River Meridian, Arizona.</p> <p>The history of surveys pertaining to this survey is as follows: The Principal Meridian through Township 5 South was surveyed by J. B. McLaughlin in 1883. The Principal Meridian through Township 5 South was resurveyed and the First Standard Parallel South through Range 1 East was surveyed by W. H. Thorn and W. K. Kierulff in 1914-15. The subdivisional lines were surveyed by W. H. Thorn and W. K. Kierulff in 1915. The subdivisional lines of T. 6 S., R. 1 E. were surveyed by W. G. Shapcott and W. K. Kierulff in 1915-16.</p> <p>The survey was executed in accordance with the specifications as set forth in the <u>Manual of Surveying Instructions, 1973</u>, and the Special Instructions dated November 8, 1993, for Group No. 764, Arizona.</p> <p>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.</p> <p>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.</p> <p>The geographic position of the cor. of Tps. 5 and 6 S., R. 1 E. and R. 1 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.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Elevation</th> <th style="text-align: left;">Latitude</th> <th style="text-align: left;">Longitude</th> <th></th> </tr> </thead> <tbody> <tr> <td>1660.62 ft.</td> <td>32°56'31.183" N.</td> <td>112°18'20.131" W.</td> <td>NAD27</td> </tr> </tbody> </table> <p>The mean magnetic declination, as taken from quadrangle map CONLEY WELLS, ARIZ., published in 1979 by U.S. Geological Survey, is 13° E.</p>	Elevation	Latitude	Longitude		1660.62 ft.	32°56'31.183" N.	112°18'20.131" W.	NAD27
Elevation	Latitude	Longitude							
1660.62 ft.	32°56'31.183" N.	112°18'20.131" W.	NAD27						

Dependent Resurvey of a Portion of the First Stan. Par. S.
through R. 1 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">Restoring the survey executed by W. H. Thorn and W. K. Kierulff in 1914-15</p> <hr/>
	<p>Beginning at the stan. cor. of secs. 31 and 32, on the S. bdy. of the Tp., monumented with an iron post, 3 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. SC T5S R1E S31 S32 1914.</p>
	<p>Add marks 1993 to the brass cap.</p>
	<p>Cor. is located in barbed wire fence, 4 strand, bears N. and S., and 11 lks. E. of trail road, bears N. and S.</p>
	<p>West, on the S. bdy. of sec. 31.</p>
1.93	<p>The closing cor. of secs. 5 and 6, T. 6 S., R. 1 E., identical with AP 1, on the South Maricopa Mountains Wilderness Area Bdy., monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. T5S R1E S31 S32 CC S6 S5 T6S R1E 1916.</p>
	<p>Add marks 1993 to the brass cap.</p>
40.04	<p>The stan. 1/4 sec. cor. of sec. 31, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with a scattered mound of stone to the N., with brass cap mkd. SC 1/4 S31 1914.</p>
	<p>Add marks T5S R1E T6S 1993 to the brass cap.</p> <hr/>
	<p>N. 89°59' W., beginning new measurement.</p>
39.98	<p>The cor. of Tps. 5 and 6 S., R. 1 W. and R. 1 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. T5S R1W R1E S36 S31 S1 S6 T6S 1914 GSRM.</p>
	<hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p style="text-align: center;">Restoring the survey executed by W. H. Thorn and W. K. Kierulff in 1915</p> <hr/>
	<p>From the stan. cor. of secs. 31 and 32, on the S. bdy. of the Tp., hereinbefore described.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.01	<p>N. 0°01' W., bet. secs. 31 and 32.</p> <p>The 1/4 sec. cor. of secs. 31 and 32, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. 1/4 S31 S32 1915.</p> <p>Add the marks T5S R1E 1993 to the brass cap.</p> <p>Cor. is located in barbed wire fence, 4 strand, bears N. and S., and 114 lks. E. of trail road, bears NNW and SSE.</p> <hr/> <p>N. 0°02' W., beginning new measurement.</p> <p>The cor. of secs. 29, 30, 31 and 32, monumented with an iron post, 2 ins. diam., firmly set, projecting 16 ins. above ground, with brass cap mkd. T5S R1E S30 S29 S31 S32 1915.</p> <p>Add the marks 1993 to the brass cap.</p> <p>Cor. is located in barbed wire fence, 4 strand, bears N. and S., and 68 lks. E. of trail road, bears N. and S.</p>
	<hr/> <p>West, bet. secs. 30 and 31.</p>
1.89	<p>Point for AP 6, on the South Maricopa Mountains Wilderness Area Bdy., hereinafter described.</p> <p>Thence, along the South Maricopa Mountains Wilderness Area Bdy.</p>
40.01	<p>The 1/4 sec. cor. of secs. 30 and 31, monumented with an iron post, 1 ins. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. 1/4 S30 S31 1915.</p> <p>Add the marks T5S R1E 1993 to the brass cap.</p> <hr/> <p>S. 89°59' W., beginning new measurement.</p>
39.99	<p>The cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., monumented with an iron post, 3 ins. diam., firmly set, projecting 14 ins. above the ground, in a supporting mound of stone, 4 ft. base, 1/2 ft. high, with a mound of stone, 2 ft. base, 1 ft. high, to the S., with brass cap mkd. T5S R1W R1E S25 S30 S36 S31 1914 GSRM as described in the field notes of the dependent resurvey of a portion of the Principal Meridian through T. 5 S., T. 5 S., R. 1 W., executed concurrently under this same group.</p>

Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Bdy.,
 T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona

CHAINS	
21.08	<p style="text-align: center;">In Sec. 31</p> <hr style="width: 20%; margin: auto;"/> <p>From AP 1, identical with the closing cor. of secs. 5 and 6, T. 6 S., R. 1 E., hereinbefore described.</p> <p>N. 0°15' E., on line 1-2.</p> <p>Point for AP 2.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 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 114 lks. W. of trail road, bears NNW. and S.</p>
3.00	<p>N. 14°45' 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., 25 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 45 lks. W. of trail road, bears NNE. and SE.</p>
6.97	<p>N. 4°46' E., on line 3-4.</p> <p>Point for AP 4.</p>

Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Bdy.,
 T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<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 data-bbox="779 388 1023 556" style="text-align: center;"> <p>T5S R1E</p> <p>AP4 S31</p> <p>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 45 lks. W. of trail road, bears NNE. and SSE.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°21' E., on line 4-5.</p>
9.26	<p>Point for AP 5.</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="779 997 1023 1165" style="text-align: center;"> <p>T5S R1E</p> <p>AP5 S31</p> <p>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 61 lks. W. of trail road, bears N. and SSE.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°03' E., on line 5-6.</p>
39.84	<p>Point for AP 6, on the line bet. secs. 30 and 31.</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 data-bbox="779 1596 1023 1795" style="text-align: center;"> <p>T5S R1E</p> <p>S30</p> <hr style="width: 20%; margin: 0 auto;"/> <p>AP6 S31</p> <p>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>

Metes-and-Bounds Survey of the
 South Maricopa Mountains Wilderness Area Bdy.,
 T. 5 S., R. 1 E., Gila and Salt River Meridian, Arizona

CHAINS

Cor. is located 182 lks. W. of trail road, bears N. and S.

From this cor. point, the cor. of secs. 29, 30, 31 and 32,
 hereinbefore described, bears East, 1.89 chs. dist.

GENERAL DESCRIPTION

This survey is located approximately 8 miles south of the town of
 Mobile, Arizona. The elevation ranges from 1500 feet to 2800
 feet above sea level. The general terrain encompassed in this
 resurvey is mountainous. The general drainage is to the east and
 south.

The soil is rocky and does not promote much usable vegetation.
 There is an abundance of saguaro and other various cacti,
 greasewood, 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. 1 E., Gila and Salt River Meridian, Arizona

The following description is for informational purposes only.

Beginning at Angle Point 1, identical with the closing cor. of
 secs. 5 and 6, T. 6 S., R. 1 E., on the S. bdy. of the Tp.

thence N. $0^{\circ}15'$ E., 21.08 chs. dist., to Angle Point 2;
 thence N. $14^{\circ}45'$ W., 3.00 chs. dist., to Angle Point 3;
 thence N. $4^{\circ}46'$ E., 6.97 chs. dist., to Angle Point 4;
 thence N. $0^{\circ}21'$ E., 9.26 chs. dist., to Angle Point 5;
 thence N. $0^{\circ}03'$ E., 39.84 chs. dist., to Angle Point 6, on
 the line bet. secs. 30 and 31;
 thence West, 38.12 chs. dist., bet. secs. 30 and 31, to the
 1/4 sec. cor. of secs. 30 and 31;
 thence S. $89^{\circ}59'$ W., 39.99 chs. dist., bet. secs. 30 and 31, to
 the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the
 Tp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Kevin C. Berridge	Surveying Technician
Ted E. Cazier	Surveying Technician
Jeff A. Hill	Surveying Technician
Lawrence T. Kemp	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 First Standard Parallel South through Range 1 East and a portion of the subdivisional lines, and executed the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 1 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; 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 dependent resurvey of a portion of the First Standard Parallel South through Range 1 East and a portion of the subdivisional lines, and the metes-and-bounds survey of the South Maricopa Mountains Wilderness Area Boundary, in Township 5 South, Range 1 East, Gila and Salt River Meridian, Arizona, executed by Robert C. Umbanhowar, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

5-11-98
(Date)

Kenny D. Rawnter
(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. 1 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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