

ORIGINAL
BOOK 5352
1

R-5352

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

DEPENDENT RESURVEY OF A PORTION OF THE EAST AND NORTH BOUNDARIES,

A PORTION OF THE SUBDIVISIONAL LINES,

THE SUBDIVISION OF SECTIONS 11 AND 13,

AND THE METES-AND-BOUNDS SURVEY OF THE BOUNDARY

OF MUGGINS MOUNTAINS WILDERNESS AREA,

IN TOWNSHIP 8 SOUTH, RANGE 20 WEST,

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

EXECUTED BY

Stephen K. Hansen, Cadastral Surveyor
Robin T. Mathews, Cadastral Surveyor

Under Special Instructions dated March 12, 1991, and Amended Special Instructions dated April 18, 1991, approved March 12, 1991, and April 18, 1991, which provided for the surveys included under Group Number 729 and assignment instructions dated March 12, 1991 and October 16, 1991.

Survey commenced April 1, 1991

Survey completed Jan. 27, 1992

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T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of portions of the east and north boundaries, portions of the subdivisional lines, the subdivision of sections 11 and 13, and the metes-and-bounds survey of the boundary of Muggins Mountains Wilderness Area in Township 8 South, Range 20 West, Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated March 12, 1991, and the Amended Special Instructions dated April 18, 1991, for Group No. 729, Arizona.

Sidney E. Blout surveyed the west boundary of Township 8 South, Range 19 West, in 1912. William B. Kimmel surveyed the south, east and north boundaries and subdivided Township 8 South, Range 20 West. Ray Harpin, Douglas A. Cody and Paul J. Fisher dependently resurveyed the west boundary of Township 8 South, Range 19 West, in 1969 through 1981.

Preliminary to the resurvey, the lines of the original survey were retraced and a 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 purpose of this survey was to determine the boundary of Muggins Mountains Wilderness Area.

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 Lietz Set 4 and a Geodimeter 140 electronic instruments.

The geographic position of the Angle Point 44, T. 8 S., R. 20 W., was determined by the technique of relative positioning using the Mini Ranger GPS Geodetic System. U.S. Coast and Geodetic Survey triangulation stations "Adonde" and "Overpass" were used as the control stations. Elevation and coordinates refer to the top of the monument.

Latitude

32°45'04.52" N.

Longitude

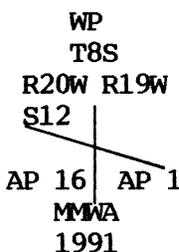
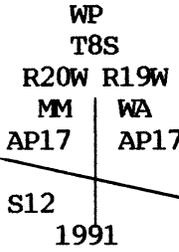
114°17'43.11" W. NAD 27

The mean magnetic declination is 13° East.

Dependent Resurvey of a Portion of the East Boundary,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Restoring the survey executed by Sydney Blout in 1912</p> <hr/>
	<p>Beginning from the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., monumented with an iron post, 3 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd., and witnessed as described in the field note record of the dependent resurvey of the W. bdy., T. 8 S., R. 19 W., executed concurrently under this same group.</p>
	<p>N. 0°01' E., between secs. 13 and 18.</p>
10.80	Ridge, bears SE and NW.
22.00	Wash, 20 lks. wide, drains WNW.
24.50	Spur, bears E. and W.
26.20	Wash, 15 lks. wide, 3 ft. deep, drains WSW.
40.01	The true point for the 1/4 cor. of secs. 13 and 18, described in the dependent resurvey of the W. bdy. of T. 8 S., R. 19 W., executed concurrently under this same group.
41.90	Wash, 40 lks. wide, drains SSW.
43.51	The witness cor. for 1/4 sec. cor. of secs. 13 and 18, monumented with an iron post, 1 in. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. and witnessed as described in the field note record of the dependent resurvey of the W. bdy., T. 8 S., R. 19 W., executed concurrently under this same group.
	<hr/> <p>N. 0°03' W., beginning new measurement.</p>
36.54	The cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 3 ins. diam., firmly set, in a mound of stone, 3 ft. base, to top, projecting 24 ins. above ground, with brass cap mkd. and witnessed as described in the field note record of the dependent resurvey of the W. bdy., T. 8 S., R. 19 W., executed concurrently under this same group.

Dependent Resurvey of a Portion of the East Boundary,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>N. 0°04' E., bet. secs. 7 and 12.</p>
	<p>Along broken, rocky land with scattered cacti and palo verde.</p>
9.41	<p>Point for AP 16, identical with AP 1, T. 8 S., R. 19 W., and a witness point on the bdy. of Muggins Mountains Wilderness Area.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 8 ins. in the ground, to bedrock, in a mound of stone and concrete, 3 ft. base to top, with brass cap mkd.</p>
	
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
10.92	<p>Point for a AP 17, identical with AP 17, T. 8 S., R. 19 W., and a witness point, on the bdy. of Muggins Mountains Wilderness Area.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, with brass cap mkd.</p>
	
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
17.00	<p>Spur, bears NE and SW.</p>
36.50	<p>Ridge, bears NNW and SSE.</p>

Dependent Resurvey of a Portion of the East Boundary,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>40.04 The 1/4 sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., firmly set, in a collar of stone, projecting 14 ins. above ground, with brass cap mkd. and witnessed as described in the field note record of the dependent resurvey of the W. bdy., T. 8 S., R. 20 W., executed concurrently under this same group.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the North Boundary, T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p>From the cor. of secs. 1, 6, 31, and 36, Tp. 7 and 8 S., Rs. 19 and 20 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 18 ins. above ground, with brass cap mkd. and witnessed as described in the field note record of the dependent resurvey of the S. bdy., T. 7 S., R. 19 W., executed concurrently under this same group.</p> <p>N. 89°58' W., bet. secs. 1 and 36.</p> <p>Over mountainous land with sparse vegetation.</p> <p>11.90 Spur, at N. end of Klotho's Temple, desc. W.</p> <p>32.05 Point for AP 33, on the bdy. of Muggins Mountains Wilderness Area.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T7S R20W S36</p> <hr style="width: 50%; margin: 0 auto;"/> <p>S1 / AP33 MWA T8S R20W 1991</p> </div> <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 82 lks. S. of a trail road, bears ENE and WSW.</p>
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Dependent Resurvey of a Portion of the North Boundary,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
39.71	<p>The 1/4 sec. cor. of secs. 1 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with a mound of stone, 2 ft. base, 1 1/2 ft. high, to the N., with brass cap mkd., 1/4 S36 S1 1916.</p> <p>Add marks T7S R20W and T8S 1991 to the brass cap.</p> <hr/> <p>Dependent Resurvey of a Portion of the Subdivisional Lines, T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p>Restoring the survey executed by William B. Kimmel in 1915 and 1916</p> <hr/> <p>From the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., hereinbefore described.</p> <p>West, bet. secs. 13 and 24.</p> <p>Along mountainous terrain through scattered palo verde and cacti.</p>
3.30	Wash, 10 lks. wide, drains WSW.
7.90	Spur, bears NNE and SSW.
18.80	Wash, 10 lks. wide, drains SSW.
22.60	Spur, bears E. and W.
28.60	Wash, 15 lks. wide, drains SSW.
39.99	<p>The 1/4 sec. cor. of secs. 13 and 24, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above ground, with a mound of stone, 4 ft. base, 2 ft. high to the E., with brass cap mkd., 1/4 S13 S24 1916.</p> <p>Not remonumented.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 13 and 14, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, in a mound of stone, 2 ft. base, 6 ins. high, with a mound of stone, 3 ft. base, 2 ft. high to the W., with brass cap mkd., 1/4 S14 S13 1916., from which.</p> <p>An ironwood, 13 ins. diam., bears N. 48° W., 23 lks. dist., mkd. 1/4S14BT (Record: N. 43 1/4° W.)</p> <p>Not remonumented.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS											
	<p>N. 0°03' E., bet. secs. 13 and 14.</p>										
	<p>Along rolling land with scattered palo verde and cacti.</p>										
1.60	<p>W. bank of Muggins Wash, drains SW, asc. gently over a series of washes.</p>										
3.50	<p>Wash, 125 lks. wide, 15 ft. deep, drains W.</p>										
15.00	<p>Wash, 30 lks. wide, drains SW.</p>										
27.00	<p>Wash, 80 lks. wide, drains SW, asc. over steep rocky terrain.</p>										
39.99	<p>The cor. of secs. 11, 12, 13 and 14, monumented with an iron post, 2 ins. diam., firmly set, projecting 16 ins. above ground, in a mound of stone, 3 ft. base, to top, with a mound of stone, 4 ft. base, 3 ft. high W. of the cor., with brass cap mkd., T8S R20W S11 S12 S13 S14 1916.</p> <p>Not remonumented.</p> <p>Cor. is located on a steep rocky ridge, bears N. and S.</p> <hr/> <p>From the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.</p> <p>S. 89°57' W., bet. secs. 12 and 13.</p> <p>Over rugged land with sparse vegetation</p>										
12.42	<p>Point for a witness point, at the intersection with the bdy. of Muggins Mountains Wilderness Area.</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 style="text-align: center;"> <p>WP</p> <table border="0"> <tr> <td>T8S</td> <td>R20W</td> </tr> <tr> <td>S12</td> <td>MM</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>S13</td> <td>WA</td> </tr> <tr> <td colspan="2">1991</td> </tr> </table> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>From this cor. point, AP 14, on the Muggins Mountains Wilderness Area bdy., bears N. 57°24' E., 3.96 chs. dist., hereinafter described.</p>	T8S	R20W	S12	MM	<hr/>		S13	WA	1991	
T8S	R20W										
S12	MM										
<hr/>											
S13	WA										
1991											

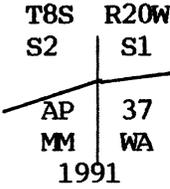
Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
14.51	<p>Point for a witness point, at the intersection with the bdy. of Muggins Mountains Wilderness Area.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, in a drill hole, cemented in place, in a rock outcrop, 10 x 5 x 3 ft., with top mkd.</p> <div style="text-align: center;"> <p>WP T8S R20W MM / S12 ----- WA / S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the brass tablet.</p> <p>Cor. is located 30 lks. W. of the center of a road, bears NE and SW.</p> <p>From this cor. point, AP 20, on the Muggins Mountains Wilderness Area bdy., bears N. 54°10' E., 4.93 chs. dist., hereinafter described.</p>
39.93	<p>The 1/4 sec. cor. of secs. 12 and 13, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with a mound of stone, 3 ft. base, 2 ft. high, to the W., with brass cap mkd., 1/4 S12 S13 1916.</p> <p>Not remonumented.</p> <p>Cor. is located on a SW facing slope.</p> <hr style="width: 30%; margin: 10px auto;"/>
40.07	<p>S. 89°54' W., beginning new measurement.</p> <hr style="width: 60%; margin: 10px auto;"/> <p>The cor. of secs. 11, 12, 13, and 14.</p> <hr style="width: 60%; margin: 10px auto;"/> <p>North, bet. secs. 11 and 12.</p> <p>Over rugged land with sparse vegetation</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
39.97	<p>The 1/4 sec. cor. of secs. 11 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with a mound of stone, 3 x 3 x 3 ft., to the W., with brass cap mkd., 1/4 S11 S12 1916.</p> <p>Add marks T8S R20W 1991 to the brass cap.</p> <p>Cor. is located on a steep SE facing slope.</p> <hr/> <p>From the cor. of secs. 1, 2, 11, and 12, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins., in a mound of stone, 3 ft. base, to top, with a mound of stone, 3 ft. base, 2 ft. high, to the W., with brass cap mkd., T8S R20W S1 S2 S11 S12 1916.</p> <p>Not remonumented.</p> <p>N. 0°41' E., bet. secs. 1 and 2.</p> <p>Over mountainous land, with sparse palo verde, saguaro and creosote.</p>
39.99	<p>The 1/4 sec. cor. of secs. 1 and 2, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with a mound of stone 3 ft. base 2 ft. high, W. of the cor., with brass cap mkd., 1/4 S1 S2 1916.</p> <p>Add marks T8S R20W 1991 to brass cap.</p> <p>Cor. is located on a N. facing slope.</p> <hr/> <p>N. 0°15' E., beginning new measurement.</p>
25.43	<p>Point for AP 37, of the bdy. of Muggins Mountains Wilderness Area.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, 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 beneath the stainless steel post.</p>
	<p>Cor. is located 27 lks. N. of a wash, 120 lks. wide, 15 ft. deep, drains WSW.</p>
<p>40.26</p>	<p>The cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the Tp., monumented with an iron post, 3 ins. diam., firmly set, projecting 8 ins. above ground, with a mound of stone, 2 ft. base, 2 ft. high, to the W., with brass cap mkd., T7S R20W S36 S36 S1 S2 T8S 1916.</p> <p>Not remonumented.</p>
	<p>From the cor. of secs. 11, 12, 13, and 14.</p>
	<p>N. 89°58' W., bet. secs. 11 and 14.</p>
	<p>Over rugged land, asc. gradually.</p>
<p>5.90</p>	<p>Top of ridge, bears ENE and WSW.</p>
<p>38.00</p>	<p>Top of ridge, bears SSE and NNW.</p>
<p>40.05</p>	<p>The 1/4 sec. cor. of secs. 11 and 14, determined by the remains of an iron post, 1 in. diam., filled with concrete, 18 ins. below ground, with a mound of stone, 3 ft. base, 2 ft. high, to the N. This is accepted as the best available evidence of the original cor. position.</p>
	<p>At the cor. point</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T8S R20W S11 1/4 — S14 1991</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>Deposit the remains of the iron post beneath the stainless steel post.</p>
	<p>Retain the mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p>
	<p>A steel fence post is set to the W.</p>
	<p>Cor. is located on the S. face of a spur, bears ENE and WSW, 45 lks. S. of the top of spur.</p>
	<p>From this cor. point, a rebar, 1/2 in. diam., firmly set, projecting 3 ins. above ground, with a yellow plastic cap stamped YOWELL LS6022, established by Thomas Yowell, R.L.S. 6022, bears S. 59° W., 1 lk. dist. This was established using improper procedures and is not utilized in the course of this survey.</p>
	<hr/> <p>N. 89°59' W., beginning new measurement.</p>
40.09	<p>The cor. of secs. 10, 11, 14, and 15, monumented with an iron post, 2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd., T8S R20W S11 S10 S15 S14 1916.</p>
	<p>Not remonumented.</p>
	<p>Cor. is located in a flood plain.</p> <hr/>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
39.94	<p>N. 0°08' E., bet. secs. 10 and 11.</p> <p>Over rolling land, with scattered palo verde and iron wood.</p> <p>The 1/4 sec. cor. of secs. 10 and 11 determined from the remains of an original bearing tree.</p> <p style="padding-left: 40px;">A forked iron wood, 30 ins. diam. at base, bears S. 12° W., 86 lks. dist., mkd. mkd. 1/4 S10 BT.</p> <p>At the cor. point.</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; padding: 10px 0;"> <p>T8S R20W 1/4 S10 S11 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>A mound of stone, 2 ft. base, 2 ft. high lays to the NW of the cor.</p> <p>Cor. is located 18 lks. N. of edge of wash, 75 lks. wide, drains W.</p> <p>Set a steel fence post alongside.</p> <hr style="width: 30%; margin: 10px auto;"/>
39.97	<p>N. 0°09' E., beginning new measurement.</p> <p>The cor. of secs. 2, 3, 10, and 11, monumented with an iron post, 2 ins. diam., firmly set, projecting 13 ins. above ground, with a mound of stone 3 ft. base 2 ft. high W. of the cor., with brass cap mkd., T8S R20W S2 S3 S10 S11 1916.</p> <p>Not remonumented.</p> <hr style="width: 60%; margin: 10px auto;"/>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>From the cor. of secs. 1, 2, 11, and 12.</p> <p>S. 89°59' W., bet. secs. 2 and 11.</p> <p>Over rolling rocky land, with sparse vegetation.</p>
39.70	<p>The 1/4 sec. cor. of secs. 2 and 11, monumented with an iron post, 1 in. diam., firmly set, projects 29 ins. from the ground, in a mound of stone, 2 ft. base, to top, with a mound of stone 2 ft. base 1 1/2 ft. high to the N., with brass cap mkd., 1/4 S2 S11 1916.</p> <p>Add marks T8S R20W 1991 to brass cap.</p> <p>Cor. is located 30 lks. N. of a draw, bears E. and W.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 89°57' W., beginning new measurement.</p>
40.01	<p>The cor. of secs. 2, 3, 10, and 11.</p> <hr style="width: 80%; margin: 10px auto;"/> <p>N. 0°15' E., bet. secs. 2 and 3.</p> <p>Over rolling land with sparse vegetation.</p>
3.34	<p>Point for AP 44, of the bdy. of Muggins Mountains Wilderness Area.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, encircled with a collar of stone, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <pre> T8S R20W S2 AP44 MWA 1991 </pre> </div> <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 66 lks. S. of a wash, 36 lks. wide, 25 ft. deep, drains W.</p>

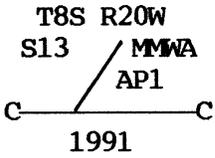
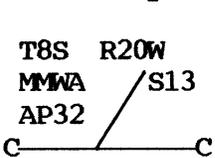
Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
39.98	<p>The 1/4 sec. cor. of secs. 2 and 3, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with a mound of stone 3 ft. base 2 ft. high to the W. of the cor., with brass cap mkd., 1/4 S2 S3 1916.</p> <p>Add marks T8S R20W 1991 to brass cap.</p> <p>Cor. is located on a SE facing slope.</p> <hr/> <p style="text-align: center;">Subdivision of Section 13, T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p>From the 1/4 sec. cor. of secs. 13 and 24.</p> <p>N. 0°04' E., on the N. and S. center line of sec. 13.</p> <p>Over rolling land through scattered palo verde and cacti.</p>
9.30	Ridge, bears NE and SW.
19.70	Wash, 40 lks. wide, drains WSW.
23.90	Ridge, bears E. and W.
35.90	Wash, drains SSW.
39.98	<p>Point for the center 1/4 sec. cor of sec. 13, at the intersection with the E. and W. center line of sec. 13.</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> <p style="text-align: center;">T8S R20W C1/4 S13 1991</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 on a NW facing slope.</p> <p>From this cor. point, a brass tablet, 3 1/2 ins. diam., firmly set, in a concrete collar, 6 ins. diam., projecting 12 ins. above ground, mkd. Corp. of Engineers C S13 T8S R20W 1956, bears S. 70 1/2° W., 18 lks. dist. This point was established using improper procedures and is not utilized in the course of this survey.</p>

Subdivision of Section 13, T. 8 S., R. 20 W.,
Gila and Salt River Meridian, Arizona

<p>CHAINS 55.90</p>	<p>Ridge, bears ESE and WNW.</p>
<p>57.07</p>	<p>Point for a witness point, at intersection with the bdy. of Muggins Mountains Wilderness Area.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone and concrete, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="857 583 1006 835" data-label="Diagram"> <p style="text-align: center;">WP T8S R20W C S 13 MM WA C 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>From this cor. point, AP 5, of the Muggins Mountains Wilderness Area, bears S. 76°16' W., 3.27 chains dist., hereinafter described.</p>
<p>57.68</p>	<p>Point for a witness point, at the intersection with the bdy. of Muggins Mountains Wilderness Area.</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="868 1281 1006 1533" data-label="Diagram"> <p style="text-align: center;">WP T8S R20W C MM WA S 13 C 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>From this cor. point, AP 26, of the Muggins Mountains Wilderness Area bdy., bears N. 85°21' E., 92 lks. dist., hereinafter described.</p>

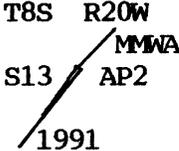
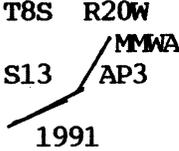
Subdivision of Section 13, T. 8 S., R. 20 W.,
Gila and Salt River Meridian, Arizona

CHAINS	
61.00	Wash, 40 lks. wide, drains SW, asc. steeply.
65.60	S. edge of mesa, bears NE and SW.
80.01	The 1/4 sec. cor. of secs. 12 and 13.
<hr/> <p>From the point for the 1/4 sec. cor. of secs. 13 and 18, on the E. bdy. of the Tp., hereinbefore described.</p>	
<p>S. 89°57 W., on the E. and W. center line of sec. 13.</p>	
<p>Over rolling land through scattered palo verde and cacti.</p>	
3.10	Ridge, bears N. and S.
7.40	Wash, 15 lks. wide, drains SSW.
29.70	Ridge, bears NNE and SSW.
32.70	Wash, 50 lks. wide, drains SW.
39.955	The center 1/4 sec. cor. of sec. 13.
54.725	Point for AP 1, of the bdy. of Muggins Mountains Wilderness Area.
<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p>	
	
<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>	
55.555	Point for AP 32, of the bdy. of Muggins Mountains Wilderness Area.
<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p>	
	
<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>	

Subdivision of Section 11, T. 8 S., R. 20 W.,
Gila and Salt River Meridian, Arizona

CHAINS	
65.80	E. bank of Muggins Wash, desc. steeply into flood plain.
80.00	The 1/4 sec. cor. of secs. 13 and 14.
	From the 1/4 sec. cor. of secs. 11 and 14.
	N. 0°05' E., on the N. and S. center line of sec. 11.
	Over rolling land through scattered palo verde and cacti.
21.60	Ridge, bears ENE and WSW.
39.95	Point for the center 1/4 sec. cor. of sec. 11 at intersection with the E. and W. centerline of sec. 11.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T8S R20W C1/4 S11 1991
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
	Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
	Cor. is located 90 lks. S. of Twin Tanks Wash, 120 lks. wide, 15 ft. deep, drains WSW, and in the flood plain.
	From this cor. point, a brass tablet, 3 1/2 ins. diam., firmly set, in a concrete collar, 6 ins. diam., projecting 22 ins. above ground, mkd. Corp. of Engineers C S11 T8S R20W 1956, bears S. 73 1/2° E., 6 lks. dist. This point was established using improper procedures and is not utilized in the course of this survey.
79.89	The 1/4 sec. cor. of secs. 2 and 11.
	From the 1/4 sec. cor. of secs. 11 and 12.
	West, on the E. and W. center line of sec. 11
	Over rugged land, with scattered palo verde.
40.00	The center 1/4 sec. cor. of sec. 11.
80.05	The 1/4 sec. cor. of secs. 10 and 11.

Metes-and-Bounds Survey of the Boundary of
 Miggins Mountains Wilderness Area,
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CHAINS	
5.83	<p style="text-align: center;">In Sec. 13</p> <hr style="width: 20%; margin: auto;"/> <p>From AP 1, at intersection with the E. and W. center line of sec. 13, hereinbefore described.</p> <p>From this cor. point, the center 1/4 sec. cor. of sec. 13, bears N. 89°57' E., 14.77 chs. dist., hereinbefore described.</p> <p>N. 35°12' E., on line bet. AP 1 and AP 2.</p> <p>Point for AP 2.</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 style="text-align: center;">  <p>T8S R20W S13 / AP2 MMWA 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
8.36	<hr style="width: 20%; margin: auto;"/> <p>N. 60°02' E., on line bet. AP 2 and AP 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> <div style="text-align: center;">  <p>T8S R20W S13 / AP3 MMWA 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
4.18	<hr style="width: 20%; margin: auto;"/> <p>N. 31°00' E., on line bet. AP 3 and AP 4.</p> <p>Point for AP 4.</p>

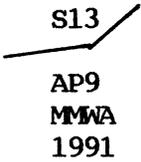
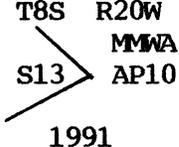
Metes-and-Bounds Survey of the Boundary of
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CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W S13 / MMWA AP4</p> <p>1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/>
3.97	<p>N. 16°40' W., on line bet. AP 4 and AP 5.</p> <p>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;"> <p>T8S R20W S13 < MMWA AP5</p> <p>1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/>
3.27	<p>N. 76°16' E., on line bet. AP 5 and AP 6.</p> <p>The witness point, at the intersection with the N. and S. center line of sec. 13, hereinbefore described..</p> <p>From this cor. point, the center 1/4 sec. cor. of sec.13, bears S. 0°04' W., 17.09 chs. dist., hereinbefore described.</p>
5.90	<p>Point for AP 6.</p>

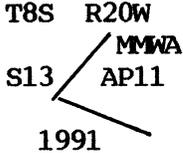
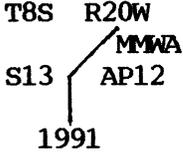
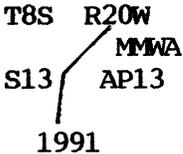
Metes-and-Bounds Survey of the Boundary of
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CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T8S R20W S13 /</p> <p style="text-align: center;">AP6 MWA 1991</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 55°21' E., on line bet. AP 6 and AP 7.</p>
3.76	<p>Point for AP 7.</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> <p style="text-align: center;">T8S R20W S13 /</p> <p style="text-align: center;">AP7 MWA 1991</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 49°42' E., on line bet. AP 7 and AP 8.</p>
8.13	<p>Point for AP 8.</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> <p style="text-align: center;">T8S R20W S13 /</p> <p style="text-align: center;">AP8 MWA 1991</p>

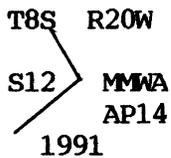
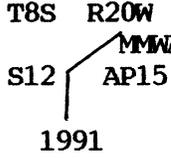
Metes-and-Bounds Survey of the Boundary of
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CHAINS	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 76°20' E., on line bet. AP 8 and AP 9.</p> <p>4.85 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; margin: 10px 0;"> <p>T8S R20W S13</p>  <p>AP9 MWA 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 34°30' E., on line bet. AP 9 and AP 10.</p> <p>5.17 Point for AP 10.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T8S R20W MWA S13 > AP10</p>  <p>1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 51°48' W., on line bet. AP 10 and AP 11.</p> <p>1.42 Point for AP 11.</p>
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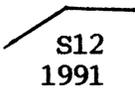
Metes-and-Bounds Survey of the Boundary of
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CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;">  <p>T8S R20W S13 MMWA AP11 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 45°23' E., on line bet. AP 11 and AP 12.</p>
3.48	<p>Point for AP 12.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;">  <p>T8S R20W S13 MMWA AP12 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 24°28' E., on line bet. AP 12 and AP 13.</p>
3.00	<p>Point for AP 13.</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 style="text-align: center;">  <p>T8S R20W S13 MMWA AP13 1991</p> </div>

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CHAINS	
6.46	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 57°24' E., on line bet. AP 13 and AP 14</p> <p>The witness point, at the intersection with the sec. line bet. secs. 12 and 13, hereinbefore described.</p> <p>From this cor. point, the sec. cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., bears N. 89°57' E., 12.42 chs. dist., hereinbefore described.</p> <p style="text-align: center;">In Section 12</p>
10.42	<p>Point for AP 14.</p> <hr/> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;">  <p>T8S R20W S12 MMWA AP14 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 10°01' E., on line bet. AP 14 and AP 15.</p>
7.95	<p>Point for AP 15.</p> <hr/> <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 style="text-align: center;">  <p>T8S R20W S12 MMWA AP15 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/>

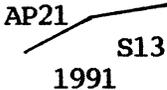
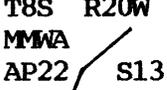
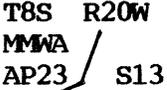
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CHAINS	<p>S. 86°02' E., on line bet. AP 15 and AP 16.</p>
7.73	<p>AP 16, identical with AP 1, T. 8 S., R. 19 W., and a witness point, at intersection with the line bet. secs. 7 and 12, on the E. bdy. of the Tp., hereinbefore described.</p> <p>From this cor. point, the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., bears S. 0°04'; W., 9.41 chs. dist., hereinbefore described.</p> <hr/> <p>From AP 17, identical with AP 17, T. 8 S., R. 19 W., and a witness point, at the intersection with the line bet. secs. 7 and 12, on the E. bdy. of the Tp., hereinbefore described.</p> <p>From this cor. point, the 1/4 sec. cor. of secs. 7 and 12, on the E. bdy. of the Tp., bears N. 0°04' E., 29.11 chs. dist., hereinbefore described.</p>
5.51	<p>N. 83°03' W., on line bet. AP 17 and AP 18.</p> <p>Point for AP 18.</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 style="text-align: center; margin: 10px 0;"> <p>T8S R20W MWA AP18</p>  <p>S12 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/>
6.10	<p>S. 86°51' W., on line bet. AP 18 and AP 19.</p> <p>Point for AP 19.</p>

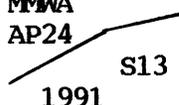
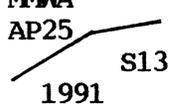
Metes-and-Bounds Survey of the Boundary of
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<p>CHAINS</p>	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W MMWA AP19</p> <p>S12 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>S. 7°01' E., on line bet. AP 19 and AP 20.</p> <p>8.44 Point for AP 20.</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 style="text-align: center;"> <p>T8S R20W MMWA AP20</p> <p>S12 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>S. 54°10' W., on line bet. AP 20 and AP 21.</p> <p>4.93 The witness point, at the intersection with the line bet. secs. 12 and 13, hereinbefore described.</p> <p>From this cor. point, the 1/4 sec. cor. of secs. 12 and 13, bears S. 89°57' W., 25.42 chs. dist., hereinbefore described.</p> <p style="text-align: center;">In Section 13</p> <hr/> <p>10.23 Point for AP 21.</p>
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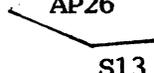
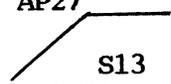
Metes-and-Bounds Survey of the Boundary of
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CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W MMWA AP21 </p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/> <p>S. 34°06' W., on line bet. AP 21 and AP 22.</p>
7.90	<p>Point for AP 22.</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 style="text-align: center;"> <p>T8S R20W MMWA AP22 </p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/> <p>S. 7°12' W., on line bet. AP 22 and AP 23.</p>
3.49	<p>Point for AP 23.</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 style="text-align: center;"> <p>T8S R20W MMWA AP23 </p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/>

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CHAINS	
	S. 75°55' W., on line bet. AP 23 and AP 24.
4.91	Point for AP 24.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<div style="text-align: center;"> <p>T8S R20W MWA AP24</p>  </div>
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
	S. 50°15' W., on line bet. AP 24 and AP 25.
8.38	Point for AP 25.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<div style="text-align: center;"> <p>T8S R20W MWA AP25</p>  </div>
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
	S. 57°47' W., on line bet. AP 25 and AP 26.
4.91	Point for AP 26.

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CHAINS	<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 style="text-align: center; margin: 10px 0;"> <p>T8S R20W MMWA AP26</p>  <p>S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 85°21' W., on line bet. AP 26 and AP 27.</p> <p>0.92 The witness point, at the intersection with the N. and S. center line of sec. 13, hereinbefore described.</p> <p>From this cor. point, the 1/4 sec. cor. of secs. 12 and 13, bears N. 0°04' E., 22.33 chs. dist.</p> <p>3.78 Point for AP 27.</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 style="text-align: center; margin: 10px 0;"> <p>T8S R20W MMWA AP27</p>  <p>S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 31°07' W., on line bet. AP 27 and AP 28.</p> <p>1.87 Point for AP 28.</p>
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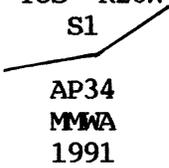
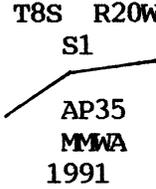
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 Muggins Mountains Wilderness Area,
 T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<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 style="text-align: center; margin: 10px 0;"> <p>T8S R20W MWA AP28 < S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 23°18' E., on line bet. AP 28 and AP 29.</p> <p>3.02 Point for AP 29.</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; margin: 10px 0;"> <p>T8S R20W MWA AP29 / S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 28°21' W., on line bet. AP 29 and AP 30.</p> <p>4.16 Point for AP 30.</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 style="text-align: center; margin: 10px 0;"> <p>T8S R20W MWA AP30 / S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/>
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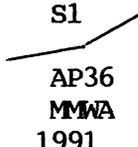
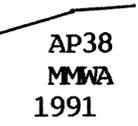
Metes-and-Bounds Survey of the Boundary of
Muggins Mountains Wilderness Area,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>S. 59°13' W., on line bet. AP 30 and AP 31.</p>
8.67	<p>Point for AP 31.</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 style="text-align: center;"> <p>T8S R20W MWA AP31 S13 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/>
6.16	<p>S. 35°32' W., on line bet. AP 31 and AP 32.</p> <p>AP 32, at the intersection with the E. and W. center line of sec. 13, hereinbefore described..</p> <p>From this cor. point, the 1/4 sec. cor. of secs. 13 and 14, bears S. 89°57' W., 24.445 chs. dist.</p> <hr/> <p style="text-align: center;">In Section 1</p> <hr/> <p>From the cor. of secs. 1, 6, 31 and 36, Tps. 7 and 8 S., Rs. 19 and 20 W., hereinbefore described.</p> <p>N. 89°58' W., on the line between secs. 1 and 36, on the N. bdy. of the tp.</p>
32.05	<p>AP 33, hereinbefore described.</p> <p>S. 57°00' W., on line bet. AP 33 and AP 34.</p>
18.56	<p>Point for AP 34.</p>

Metes-and-Bounds Survey of the Boundary of
Muggins Mountains Wilderness Area,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, encircled with a collar of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W S1</p>  <p>AP34 MWA 1991</p> </div> <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 in the center of wash, 2 chs. wide, 25 ft. deep, drains S.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 85°16' W., on line bet. AP 34 and AP 35.</p>
13.00	<p>Point for AP 35.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, to bedrock, in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W S1</p>  <p>AP35 MWA 1991</p> </div> <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 on the W. side of a spur, bears NNE and SSW, 51 lks. from the top.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 76°33' W., on line bet. AP 35 and AP 36.</p>
14.82	<p>Point for AP 36.</p>

Metes-and-Bounds Survey of the Boundary of
Muggins Mountains Wilderness Area,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
4.69	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W S1</p>  <p>AP36 MWA 1991</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.</p> <p>Cor. is located on the NW tip of spur, bears NNE and SSW, 30 lks. S. of edge.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 87°26' W., on line bet. AP 36 and AP 37.</p> <p>AP 37, at the intersection with the line bet. secs. 1 and 2, hereinbefore described..</p>
20.37	<div style="text-align: center;"> <p>In Section 2</p> <hr style="width: 30%; margin: 10px auto;"/> </div> <p>S. 84°58' W., on line bet. AP 37 and AP 38.</p> <p>Point for AP 38.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 5 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T8S R20W S2</p>  <p>AP38 MWA 1991</p> </div> <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 on the N. slope of spur, bears ESE and SW, and 7 lks. N. of a steep rock face, 30 ft. high.</p> <hr style="width: 30%; margin: 10px auto;"/>

Metes-and-Bounds Survey of the Boundary of
Muggins Mountains Wilderness Area,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
11.70	<p>S. 82°43' W., on line bet. AP 38 and AP 39.</p> <p>Point for AP 39.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, encircled with a collar of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="852 535 1047 735" style="text-align: center;"> <p>T8S R20W S2 AP39 MMWA 1991</p> </div> <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 30 lks. W. of the bottom of a ravine, drains S.</p> <hr style="width: 20%; margin: 10px auto;"/>
14.89	<p>S. 12°31' W., on line bet. AP 39 and AP 40.</p> <p>Point for AP 40.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, encircled with a collar of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="836 1207 1047 1407" style="text-align: center;"> <p>T8S R20W S2 AP40 MMWA 1991</p> </div> <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 on W. face of a spur, bears NE and SW, and 20 lks. W. of a vertical rock face, 20 ft. high.</p> <hr style="width: 20%; margin: 10px auto;"/>

Metes-and-Bounds Survey of the Boundary of
 Muggins Mountains Wilderness Area,
 T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>S. 43°52' W., on line bet. AP 40 and AP 41.</p>
24.26	<p>Point for AP 41.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T8S R20W S2 AP41 MMWA 1991</p> </div> <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 on a gradual W. facing slope, and 70 lks. E. of bottom of a wash, drains S.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>S. 8°24' W., on line bet. AP 41 and AP 42.</p>
15.19	<p>Point for AP 42.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T8S R20W S2 AP42 MMWA 1991</p> </div> <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 on W. facing slope of a spur, and 130 lks. E. of a wash, 25 lks. wide, 15 ft. deep, drains SW.</p> <hr style="width: 30%; margin: 10px auto;"/>

Metes-and-Bounds Survey of the Boundary of
 Muggins Mountains Wilderness Area,
 T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>S. 48°39' W., on line bet. AP 42 and AP 43.</p>
21.14	<p>Point for AP 43.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T8S R20W S2 AP43 MMA 1991</p> </div> <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 105 lks. E. of a wash, 40 lks. wide, 30 ft. deep, drains WNW.</p> <hr style="width: 30%; margin: 10px auto;"/>
10.49	<p>N. 77°36' W., on line bet. AP 43 and AP 44.</p> <p>AP 44, at intersection with the line bet. secs. 2 and 3.</p> <hr style="width: 30%; margin: 10px auto;"/>
3.34	<p>S. 0°15' W., on the line between secs. 2 and 3.</p> <p>The cor. of secs. 2, 3, 10 and 11, hereinbefore described.</p> <hr style="width: 80%; margin: 10px auto;"/>
	<p>In Section 11</p> <hr style="width: 30%; margin: 10px auto;"/>
39.97	<p>S. 0°09' W., on the line between secs. 10 and 11.</p> <p>The 1/4 sec. cor. of secs. 10 and 11, hereinbefore described.</p> <hr style="width: 30%; margin: 10px auto;"/>
40.05	<p>East, on the E. and W. center line of sec. 11.</p> <p>The C 1/4 sec. cor. of sec. 11, hereinbefore described.</p> <hr style="width: 30%; margin: 10px auto;"/>

Metes-and-Bounds Survey of the Boundary of
Muggins Mountains Wilderness Area,
T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	S. 0°05' W., on the N. and S. center line of sec. 11.
39.95	The 1/4 sec. cor. of secs. 11 and 14, hereinbefore described. _____
	S. 89°58' W., on the line between secs. 11 and 14.
40.05	The cor. of secs. 11, 12, 13 and 14, hereinbefore described. _____
	In Section 13 _____
	S. 0°03' W., on the line between secs. 13 and 14.
39.99	The 1/4 sec. cor. of secs. 13 and 14, hereinbefore described. _____
	N. 89°57' E., on the E. and W. center line of sec. 13.
24.445	AP 32, hereinbefore described. _____
	From AP 1, on the E. and W. center line of sec. 13, hereinbefore described.
	N. 89°57' E., on the E. and W. center line of sec. 13.
14.77	The C 1/4 sec. cor. of sec. 13, hereinbefore described. _____
	S. 0°04' W., on the N. and S. center line of sec. 13.
39.98	The 1/4 sec. cor. of secs. 13 and 24, hereinbefore described. _____
	East, on the line between secs. 13 and 24.
39.99	The cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the tp., hereinbefore described.

T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

 GENERAL DESCRIPTION

The area resurveyed and surveyed within T. 8 S., R. 20 W., Gila and Salt River Meridian is located approximately 20 miles East of Yuma, Arizona and 3 miles North of Interstate Highway 8. The terrain consists of agricultural land in the southern portion, washes and rugged hills in the northern portion. Vegetation consists of palo verde, saguaro cactus and creosote undergrowth. The soil varies from sandy loam to desert pavement.

There is extensive mining activity in the area.

 DESCRIPTION OF
 MUGGINS MOUNTAINS WILDERNESS AREA BOUNDARY
 T. 8 S., R. 20 W., GILA AND SALT RIVER MERIDIAN, ARIZONA

The following description is for informational purposes only.

Beginning at the corner of Tps. 7 and 8 S., Rs. 19 and 20 W.;

thence on the line between sections 1 and 36, N.89°58' W.,
 32.05 chains distance to Angle Point 33;

thence S. 57°00' W., 18.56 chains distance to Angle Point 34;

thence S. 85°16' W., 13.00 chains distance to Angle Point 35;

thence S. 76°33' W., 14.82 chains distance to Angle Point 36;

thence S. 87°26' W., 4.69 chains distance to Angle Point 37;

thence S. 84°58' W., 20.37 chains distance to Angle Point 38;

thence S. 82°43' W., 11.70 chains distance to Angle Point 39;

thence S. 12°31' W., 14.89 chains distance to Angle Point 40;

thence S. 43°52' W., 24.26 chains distance to Angle Point 41;

thence S. 8°24' W., 15.19 chains distance to Angle Point 42;

thence S. 48°39' W., 21.14 chains distance to Angle Point 43;

thence N. 77°36' W., 10.49 chains distance to Angle Point 44;

thence on the line between sections 2 and 3, S. 0°15' W.,

3.34 chains distance to the corner of sections 2, 3, 10 and
 11;

thence on the line between sections 10 and 11, S. 0°09' W.,

39.97 chains distance, to the 1/4 section corner of sections
 10 and 11;

thence on the East and West centerline of section 11, West,

40.05 chains distance, to the center 1/4 section corner of
 section 11;

T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

thence on the North and South centerline of section 11,
S. 0°05' W., 39.95 chains distance, to the 1/4 section
corner of sections 11 and 14;

thence on the line between sections 11 and 14, S. 89°58' E.,
40.05 chains distance, to the corner of sections 11, 12, 13
and 14;

thence on the line between sections 13 and 14, S. 0°03' W.,
39.99 chains distance, to the 1/4 section corner of sections
13 and 14;

thence on the East and West centerline of section 13,
N. 89°57' E., 24.445 chains distance, 24.45 chains distance
to Angle Point 32;

thence N. 35°32' E., 6.16 chains distance to Angle Point 31;

thence N. 59°13' E., 8.67 chains distance to Angle Point 30;

thence N. 28°21' E., 4.16 chains distance to Angle Point 29;

thence N. 23°18' W., 3.02 chains distance to Angle Point 28;

thence N. 31°07' E., 1.87 chains distance to Angle Point 27;

thence N. 85°21' E., 2.86 chains distance to Angle Point 26;

thence N. 57°47' E., 4.91 chains distance to Angle Point 25;

thence N. 50°15' E., 8.38 chains distance to Angle Point 24;

thence N. 75°55' E., 4.91 chains distance to Angle Point 23;

thence N. 7°12' E., 3.49 chains distance to Angle Point 22;

thence N. 34°06' E., 7.90 chains distance to Angle Point 21;

thence N. 54°10' E., 5.30 chains distance to Angle Point 20;

thence N. 7°01' W., 8.44 chains distance to Angle Point 19;

thence N. 86°51' E., 6.10 chains distance to Angle Point 18;

thence S. 83°03' E., 5.51 chains distance to Angle Point 17,
identical with AP AP 17, T. 8 S., R. 19 W., on the E. bdy.
of the township;

From Angle point 16, identical with Angle Point 1, on the E. bdy.
of the township.

thence N. 86°02' W., 7.73 chains distance to Angle Point 15;

thence S. 10°01' W., 7.95 chains distance to Angle Point 14;

thence S. 57°24' W., 3.96 chains distance to Angle Point 13;

thence S. 24°28' W., 3.00 chains distance to Angle Point 12;

thence S. 45°23' W., 3.48 chains distance to Angle Point 11;

thence S. 51°48' E., 1.42 chains distance to Angle Point 10;

thence S. 34°30' W., 5.17 chains distance to Angle Point 9;

thence S. 76°20' W., 4.85 chains distance to Angle Point 8;

thence S. 49°42' W., 8.13 chains distance to Angle Point 7;

thence S. 55°21' W., 3.76 chains distance to Angle Point 6;

thence S. 76°16' W., 2.63 chains distance to Angle Point 5;

thence S. 16°40' E., 3.97 chains distance to Angle Point 4;

thence S. 31°00' W., 4.18 chains distance to Angle Point 3;

thence S. 60°02' W., 8.36 chains distance to Angle Point 2;

thence S. 35°12' W., 5.83 chains distance to Angle Point 1;

T. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

thence on the East and West centerline of section 13,
N. 89°57' E., 14.77 chains distance to the center 1/4
section corner of section 13;
thence on the North and South centerline of section 13,
S. 0°04' W., 39.98 chains distance, to the 1/4 section
corner of sections 13 and 24;
thence on the line between sections 13 and 24, East, 39.99 chains
distance, to the corner of sections 13, 18, 19 and 24, on
the E. bdy. of the township;

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Cheryl A. Baier	Surveying Technician
Gordon R. Bubel	"
Ted E. Cazier	"
Rebecca N. Ramirez	"
Steven J. Buchanan	"
Scott Peronto	Student Trainee

CERTIFICATE OF SURVEY

We, Stephen K. Hansen and Robin T. Mathews, Cadastral Surveyors, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 12th day of March, 1991, and Amended Special Instructions bearing the date of 18th day of April, 1991, We have dependently resurveyed a portion of the East and North boundaries, a portion of the subdivisional lines, the subdivision of sections 11 and 13, and a metes and bounds survey of the Muggins Mountains Wilderness Area Boundary, in Township 8 South, Range 20 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 us and under our 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.

04/08/92

(Date)

Stephen K. Hansen

(Cadastral Surveyor)

03/05/92

(Date)

Robin T. Mathews

(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 East and North boundaries, a portion of the subdivisional lines, the subdivision of sections 11 and 13, a metes and bounds survey of the Muggins Mountains Wilderness Area Boundary in Township 8 South, Range 20 West, Gila and Salt River Meridian, Arizona, executed by Stephen K. Hansen and Robin T. Mathews, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

APR 10 1992

(Date)

James P. Kelley

(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. 8 S., R. 20 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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