

ORIGINAL

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

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY  
AND A PORTION OF THE SUBDIVISIONAL LINES,  
THE SUBDIVISION OF SECTIONS 13, 14, 15, 16, 17 AND 18  
AND THE METES-AND-BOUNDS SURVEY OF  
THE ARRASTRA MOUNTAIN WILDERNESS AREA BOUNDARY,

TOWNSHIP 11 NORTH, RANGE 11 WEST,  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated January 11, 2000, approved January 11, 2000, which provided for the surveys included under Group No. 836, and assignment instructions dated February 16, 2000.

Survey commenced February 22, 2000

Survey completed May 30, 2002

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## T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines, the subdivision of sections 13, 14, 15, 16, 17 and 18 and the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Boundary, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona.

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

In 1914-1917, L. E. Wilkes, H. N. Bradstreet, John G. Collins and Hugo Price, surveyed the exterior boundaries. In 1915-1917, L. E. Wilkes, H. N. Bradstreet and Hugo Price, surveyed the subdivisional lines.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated January 11, 2000, for Group No. 836, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 4400 model receivers.

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

Geodetic control was derived from first order U. S. Coast and Geodetic Survey triangulation station ALAMO 1944, as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of the 1/4 section corner of sections 13 and 18, on the east boundary of the township, is as follows:

Latitude: 34° 17' 45.86" N.      Longitude: 113° 20' 47.60" W.

The mean magnetic declination is 12½° E.

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

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Restoring the survey executed by  
L. E. Wilkes, H. N. Bradstreet, John G. Collins and Hugo Price,  
in 1914-1917

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Dependent Resurvey of a Portion of the West Boundary,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the 1/4 sec. cor. of sec. 18 only, on the W. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 15 ins. above the ground, with brass cap mkd. 1/4 S18 1914, with a mound of stone, 3 ft. base, 2 ft. high, to the E.</p> <p>Add the marks T11N R12W R11W 2000 to the brass cap.</p> <p>N. 0°10' E., bet. secs. 13 and 18, on the W. bdy. of the Tp.</p> <p>Descending over mountainous land, through scattered undergrowth.</p>
10.13	<p>The 1/4 sec. cor. of sec. 13 only, T. 11 N., R. 12 W., monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above the ground, in a mound of stone, 3½ ft. base, 2 ft. high, with brass cap mkd. 1/4 S13 1914, with a mound of stone, 2½ ft. base, 2 ft. high, to the W.</p> <p>Add the marks T11N R12W R11W 2000 to the brass cap.</p> <p>Cor. is located on a rocky W. facing slope, 25 ft. W. of ridge top, bearing NNE and SSW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>North, beginning new measurement.</p>
9.30	<p>Left bank of Santa Maria River, at base of rock outcropping, bears E. and W., thence across dry river bed.</p>
10.53	<p>Point for AP 1, sec. 18, identical with AP 15, sec. 13, T. 11 N., R. 12 W., at the 1235 ft. elevation (NGVD 29), on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Set an aluminum driver, 72 ins. long, ¾ in. diam., 67 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T11N</p> <p>R12W      R11W</p> <p>AMWA</p> <p>AP15   AP1</p> <p>S13   S18</p> <p>2000</p> </div>
11.50	<p>Stream of running water, 8 ft. wide, 6 ins. deep, course W.</p>
22.35	<p>All Terrain Vehicle trail, in bottom lands, 6 ft. wide, bears ENE and WSW.</p>
29.96	<p>Point for the cor. of secs. 7 and 18 only, at proportionate dist.; there is no remaining evidence of the original witness cor.</p>

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

CHAINS																			
	<p>Set an aluminum driver, 108 ins. long, <math>\frac{3}{8}</math> in. diam., 100 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr><td></td><td>T11N</td><td></td></tr> <tr><td>R12W</td><td> </td><td>R11W</td></tr> <tr><td></td><td></td><td>S7</td></tr> <tr><td>S13</td><td> </td><td>-----</td></tr> <tr><td></td><td></td><td>S18</td></tr> <tr><td></td><td></td><td>2000</td></tr> </table> </div> <p>Cor. is located on a sand bar, within the bottom lands of the Santa Maria River.</p> <p>Thence, bet. secs. 7 and 13.</p>		T11N		R12W		R11W			S7	S13		-----			S18			2000
	T11N																		
R12W		R11W																	
		S7																	
S13		-----																	
		S18																	
		2000																	
37.20	Right bank of Santa Maria River, bears E. and W., thence enter rolling land.																		
40.05	<p>The cor. of secs. 12 and 13 only, T. 11 N., R. 12 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T11N R12W R11W S12 S7 S13 S18 1914, with a mound of stone, 3 ft. base, 2 ft. high, to the W.</p> <p>Add the marks 2000 to the brass cap.</p> <p>Cor. is located 31 lks. S., of a 4 strand barbed wire fence, bears ESE and WNW.</p> <hr/> <p align="center"><b>Dependent Resurvey of a Portion of the Subdivisional Lines, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b></p> <hr/> <p align="center">Restoring the survey executed by L. E. Wilkes, H. N. Bradstreet and Hugo Price, in 1915-1917</p> <hr/> <p>From the cor. of secs. 13, 14, 23 and 24, monumented with an iron post, 2 ins. diam., firmly set, projecting 24 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. T11N R11W S14 S13 S23 S24 1914.</p> <p>Add the marks 2000 to the brass cap.</p> <p>N. 0°01' W., bet. secs. 13 and 14.</p> <p>Descending over mountainous land, through scattered brush.</p>																		
11.00	Left bank of Santa Maria River, bears ENE and WSW.																		

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
40.03	<p>Point for the 1/4 sec. cor. of secs. 13 and 14, at proportionate dist.; there is no remaining evidence of the original witness cor.</p> <p>Set an aluminum driver, 56 ins. long, 3/4 in. diam., 50 ins. in the ground, encircled with a collar of stone, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W 1/4 S14   S13 2000</p>
41.10	<p>Right bank of Santa Maria River, bears ENE and WSW, thence over bottom lands, through dense mesquite.</p>
68.40	<p>Leave bottom lands, enter rolling land, edge bears E. and W.</p>
80.06	<p>The cor. of secs. 11, 12, 13 and 14, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T11N R11W S11 S12 S14 S13 1914, with a mound of stone, 3 1/2 ft. base, 2 ft. high, to the W.</p> <p>Add the marks 2000 to the brass cap.</p> <hr/> <p>From the cor. of secs. 14, 15, 22 and 23, monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T11N R11W S15 S14 S22 S23 1914.</p> <p>Add the marks 2000 to the brass cap.</p> <p>N. 0°02' E., bet. secs. 14 and 15.</p> <p>Descending over mountainous land, through scattered brush.</p>
4.20	<p>Foot of bluff, 125 ft. high, leave mountainous land, enter dense mesquite timber.</p>
8.85	<p>Road to Grapevine Springs Ranch, bladed, 8 ft. wide, bears ESE and WNW.</p>
19.98	<p>Point for the S. 1/16 sec. cor. of secs. 14 and 15.</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>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T11N R11W S 1/16 S15   S14 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Thence, on the Arrastra Mountain Wilderness Area Bdy.</p>
26.50	Left bank of Santa Maria River, bears E. and W.
39.96	<p>Point for the 1/4 sec. cor. of secs. 14 and 15, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 69 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W 1/4 S15   S14 2000</p> <p>Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Cor. is located on a sand bar, within the dry bed of the Santa Maria River.</p> <p>Leave the Arrastra Mountain Wilderness Area Bdy.</p>
53.35	Right bank of Santa Maria River, bears ESE and WNW.
65.60	Leave bottom lands, enter rolling land, edge bears E. and W.
79.92	<p>The cor. of secs. 10, 11, 14 and 15, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. T11N R11W S10 S11 S15 S14 1914, with a mound of stone, 3 ft. base, 2 ft. high, to the W.</p> <p>Add the marks 2000 to the brass cap.</p> <hr/> <p>From the cor. of secs. 15, 16, 21 and 22, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. T11N R11W S16 S15 S21 S22 1914.</p> <p>Add the marks 2000 to the brass cap.</p> <p>N. 0°02' W., bet. secs. 15 and 16.</p> <p>Over nearly level land, through scattered undergrowth.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
9.50	Road to Grapevine Springs Ranch, bladed, 12 ft. wide, bears E. and W., thence enter medium mesquite timber.
19.99	<p>Point for the S. 1/16 sec. cor. of secs. 15 and 16.</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W S 1/16 S16   S15 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this cor. point, a wood post, 3½ ins. sq., firmly set, projecting 55 ins. above ground, bears N. 29°02' W., 65 lks. dist., unknown origin.</p> <p>Thence, on the Arrastra Mountain Wilderness Area Bdy.</p>
39.98	<p>Point for the 1/4 sec. cor. of secs. 15 and 16, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W 1/4 S16   S15 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this cor. point, a wood post, 3½ ins. sq., firmly set, projecting 20 ins. above ground, bears N. 18°56' E., 30 lks. dist., unknown origin.</p> <p>Leave the Arrastra Mountain Wilderness Area Bdy.</p>
47.80	Left bank of main channel, Santa Maria River, bears E. and W.
66.00	Right bank of main channel, Santa Maria River, bears ENE and WSW, thence enter rolling lands.
79.96	The cor. of secs. 9, 10, 15 and 16, monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. T11N R11W S9 S10 S16 S15 1914, with a mound of stone, 3 ft. base, 2 ft. high, to the W.



Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Add the marks 2000 to the brass cap.</p> <hr/> <p>From the cor. of secs. 16, 17, 20 and 21, monumented with an iron post, 2 ins. diam., loosely set, projecting 30 ins. above the ground, in a scattered mound of stone, with brass cap mkd. T11N R11W S17 S16 S20 S21 1914.</p> <p>Add the marks 2000 to the brass cap.</p> <p>Rebuild the scattered mound of stone, 4½ ft. base, to top.</p> <p>Cor. is located in a 4 strand barbed wire fence, bears NE and SW, on a steep NE facing, sandstone slope.</p> <p>N. 0°04' E., bet. secs. 16 and 17.</p> <p>Over mountainous land, through scattered undergrowth.</p>
19.85	<p>Road to Grapevine Springs Ranch, bladed, 12 ft. wide, bears E. and W.</p>
37.84	<p>The witness cor. to the 1/4 sec. cor. of secs. 16 and 17, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. S17 S16 WC 1/4 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <p>Cor. is located atop a rocky bluff, about 130 ft. above the Santa Maria River.</p> <hr/> <p>N. 0°02' W., beginning new measurement.</p> <p>Descending over rocky bluff, into Santa Maria River Valley.</p>
2.18	<p>True point for the 1/4 sec. cor. of secs. 16 and 17, at proportionate dist., falls in the wet river bed of the Santa Maria River, where it is impracticable to establish a permanent monument.</p>
4.58	<p>Point for AP 1, sec. 16, identical with AP 11, sec. 17, on the Arrastra Mountain Wilderness Area bdy.</p> <p>Not monumented.</p>
3.25	<p>Stream of running water, 15 ft. wide, 1 ft. deep, course NW.</p>
19.60	<p>Leave bottom lands, enter rolling lands, edge bears SE and NW.</p>
22.14	<p>Point for the N. 1/16 sec. cor. of secs. 16 and 17.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, in a mound of stone, 3½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W N 1/16 S17   S16 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located on the W. edge of an All Terrain Vehicle trail, 5 ft. wide, bears N. and S.</p>
42.10	<p>The cor. of secs. 8, 9, 16 and 17, monumented with an iron post, 2 ins. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. T11N R11W S8 S9 S17 S16 1914, with a mound of stone, 4 ft. base, 2½ ft. high, to the W.</p> <p>Add the marks 2000 to the brass cap.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 17 and 18, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with brass cap incorrectly mkd. 1/4 S18 S17 WC 1914, with a mound of stone, 3 ft. base, 2 ft. high to the NW.</p> <p>Remove the marks WC from the brass cap and add the marks T11N R11W 2000 to the brass cap.</p> <p>Cor. is located on a steep, rocky NNE facing slope.</p> <p>N. 0°02' W., bet. secs. 17 and 18.</p> <p>Descending, over mountainous land.</p>
4.00	<p>Jeep trail at foot of descent, 8 ft. wide, bears E. and W., thence over bottom lands.</p>
12.50	<p>Left bank of main channel, Santa Maria River, bears E. and W.</p>
17.75	<p>Stream of running water, 6 ft. wide, ½ ft. deep, course W.</p>
19.94	<p>Point for the N. 1/16 sec. cor. of secs. 17 and 18.</p>
	<p>Set an aluminum driver, 72 ins. long, ¾ in. diam., 66 ins. in the ground, encircled with a collar of stone, with aluminum cap mkd.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T11N R11W N 1/16 S18   S17 2000</p>
	<p>Cor. is located on a sand bar, within the dry bed of the Santa Maria River.</p>
21.40	<p>Right bank of main channel, Santa Maria River, bears E. and W., thence enter dense mesquite timber.</p>
39.88	<p>The cor. of secs. 7, 8, 17 and 18, monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. T11N R11W S7 S8 S18 S17 1914, with a mound of stone, 4 ft. base, 2 ft. high, to the W.</p> <p>Cor. is located on a rocky SSE facing slope.</p>
	<hr/>
	<p>From the cor. of secs. 8, 9, 16 and 17.</p>
	<p>S. 89°54' W., bet. secs. 8 and 17.</p>
	<p>Over rolling land, through sparse undergrowth.</p>
10.90	<p>Fence post, with 4 strand barbed wire fence extending W.</p>
14.33	<p>All Terrain Vehicle trail, at break in barbed wire fence, 5 ft. wide, bears N. and S.</p>
40.06	<p>The 1/4 sec. cor. of secs. 8 and 17, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. S8 1/4 S17 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <p>Cor. is located in a 4 strand barbed wire fence, bears E. and W.</p>
	<hr/>
	<p>S. 89°52' W., beginning new measurement.</p>
16.29	<p>From this point, a fence cor., with 4 strand barbed wire fences extending E. and S., bears S., 2 lks. dist.</p>
20.055	<p>The W. 1/16 sec. cor. of secs. 8 and 17, established by Dorman O'Leary, Arizona Registered Land Surveyor No. 16171, monumented with a rebar, 12 ins. long, ½ in. diam., firmly set, projecting 3 ins. above the ground, with attached metal wafer mkd. OLEARY 16171. This is accepted as a careful and faithful determination of the position of the cor.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 21 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W S8 W 1/16 ——— S17 2002</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Deposit the rebar inside the stainless steel post.</p> <hr/> <p>S. 89°52' W., beginning new measurement, on the Arrastra Mountain Wilderness Area Bdy.</p>
13.37	<p>From this point, a rebar, ½ in. diam., firmly set, projecting 3 ins. above the ground, established by Dorman O'Leary, Arizona Registered Land Surveyor No. 16171, with attached metal wafer mkd. OLEARY 16171, bears N., 3.5 lks. dist.</p>
20.055	<p>The cor. of secs. 7, 8, 17 and 18.</p> <hr/> <p>N. 89°47' W., bet. secs. 7 and 18, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Through dense mesquite timber,</p>
6.68	<p>A rebar, ½ in. diam., firmly set, projecting 6 ins. above ground, established by Dorman O'Leary, Arizona Registered Land Surveyor No. 16171, with attached metal wafer mkd. OLEARY 16171.</p>
20.00	<p>Point for the E. 1/16 sec. cor. of secs. 7 and 18.</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W S7 E 1/16 ——— S18 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From this cor. point, a rebar, <math>\frac{1}{2}</math> in. diam., firmly set, projecting 4 ins. above ground, with attached metal wafer mkd. OLEARY 16171, bears N. <math>3^{\circ}54'</math> W., 19 lks. dist.</p> <p>A conversation with the land owner of the NE <math>\frac{1}{4}</math> of the NE <math>\frac{1}{4}</math> of section 18, revealed that he had reset the above rebar, after he had found it lying loose.</p> <p>Leave the Arrastra Mountain Wilderness Area Bdy.</p>
40.00	<p>The <math>\frac{1}{4}</math> sec. cor. of secs. 7 and 18, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. S7 <math>\frac{1}{4}</math> S18 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p>
<hr/> <p><b>Subdivision of Section 13, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b></p> <hr/>	
	<p>From the <math>\frac{1}{4}</math> sec. cor. of secs. 13 and 18, on the E. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. <math>\frac{1}{4}</math> S13 S18 1914.</p> <p>Add the marks T11N R11W R10W 2000 to the brass cap.</p> <p>From this cor. point, U.S. Coast and Geodetic Survey triangulation station ALAMO 1944, bears S. <math>15^{\circ}56'</math> E., 248.97 chs. dist., monumented with a standard brass disk, <math>3\frac{1}{2}</math> ins. diam., cemented in a concrete post, 10 ins. square, firmly set, projecting 7 ins. above ground, with top mkd. U.S. COAST &amp; GEODETIC SURVEY ALAMO 1944 TRIANGULATION STATION and a triangle.</p> <p>S. <math>89^{\circ}50'</math> W., on the E. and W. center line of sec. 13, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Over rolling land, through medium undergrowth.</p>
0.47	Graded road, 9 ft. wide, bears NNE and SSW.
10.10	Graded road, 12 ft. wide, bears SE and NW.
28.25	Left bank of Santa Maria River, bears NE and SW.
37.94	<p>Point selected for a witness point.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 67 ins. in the ground, with aluminum cap mkd.</p>

**Subdivision of Section 13,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	WP T11N R11W AMWA C ——— C S13 2000
	Cor. is located on a sand bar, within the dry bed of the Santa Maria River.
79.95	The 1/4 sec. cor. of secs. 13 and 14.
	<hr/> <b>Subdivision of Section 14, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b> <hr/>
	From the 1/4 sec. cor. of secs. 13 and 14.
	S. 89°48' W., on the E. and W. center line of sec. 14, on the Arrastra Mountain Wilderness Area Bdy.
	Across dry bed of Santa Maria River.
38.85	Point selected for a witness point.
	Set an aluminum driver, 72 ins. long, 3/4 in. diam., 68 ins. in the ground, with aluminum cap mkd.
	WP T11N R11W AMWA C ——— C S14 2000
	Cor. is located on a sand bar, within the dry bed of the Santa Maria River.
79.84	The 1/4 sec. cor. of secs. 14 and 15.
	<hr/> <b>Subdivision of Section 15, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b> <hr/>
	From the 1/4 sec. cor. of secs. 15 and 22, monumented with the broken remains of an iron post, 1 in. diam., firmly set below the surface of the ground, with the remaining fragment of the broken iron post, 24 ins. long, lying nearby, with brass cap mkd. S15 1/4 S22 1915, with a mound of stone, 2 ft. base, 2 ft. high to the N.

Subdivision of Section 15,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W S15 1/4 ————— S22 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Invert and deposit the fragment of iron post with brass cap inside the stainless steel post and deposit the other remains at the base of the stainless steel post.</p> <p>Cor. is located on a steep, gravelly N. facing slope.</p> <p>N. 0°03' E., on the N. and S. center line of sec. 15.</p> <p>Descending, through medium brush.</p>
7.85	Road to Grapevine Springs Ranch, bladed, 12 ft. wide, bears E. and W., thence through dense mesquite, over nearly level land.
19.98	<p>Point for the center S. 1/16 sec. cor. of sec. 15.</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W C S 1/16   S15 C 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
36.03	Left bank of Santa Maria River, bears ESE and WNW.
39.96	<p>Point for the center 1/4 sec. cor. of sec. 15, at intersection with the E. and W. center line of sec. 15.</p> <p>Not monumented.</p>
74.17	Right bank of Santa Maria River, bears E. and W., thence enter rolling lands.

Subdivision of Section 15,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
79.90	<p>The 1/4 sec. cor. of secs. 10 and 15, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. S10 1/4 S15 1914, with a mound of stone, 2½ ft. base, 2 ft. high, to the N.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 14 and 15.</p> <p>West, on the E. and W. center line of sec. 15.</p> <p>Over the dry bed of the Santa Maria River.</p>
40.03	The point for the center 1/4 sec. cor. of sec. 15.
80.06	The 1/4 sec. cor. of secs. 15 and 16.
	<hr/> <p>SE 1/4</p> <hr/>
	<p>From the S. 1/16 sec. cor. of secs. 14 and 15.</p> <p>West, on the E. and W. center line of the SE 1/4 of sec. 15, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Over nearly level land, through dense mesquite.</p>
18.65	Barbed wire fence, 4 strand, bears SE and NW.
20.45	All Terrain Vehicle trail, 6 ft. wide, bears SE and NW.
24.10	All Terrain Vehicle trail, 6 ft. wide, bears NE and SW.
40.04	The center S. 1/16 sec. cor. of sec. 15.
	<hr/> <p>SW 1/4</p> <hr/>
	<p>From the center S. 1/16 sec. cor. of sec. 15.</p> <p>West, on the E. and W. center line of the SW 1/4 of sec. 15, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Over nearly level land, through dense mesquite.</p>
40.00	The S. 1/16 sec. cor. of secs. 15 and 16.



Subdivision of Section 16,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 16 and 21, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. S16 1/4 S21 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <p>Cor. is located on a sandstone bluff, about 50 ft. high, bears N. and S.</p> <p>N. 0°05' E., on the N. and S. center line of sec. 16.</p> <p>Over nearly level land, through scattered undergrowth.</p>
19.10	Road to Grapevine Springs Ranch, bladed, 10 ft. wide, bears E. and W., curving northwesterly, thence enter medium mesquite.
40.04	<p>Point for the center 1/4 sec. cor. of sec. 16, at intersection with the E. and W. center line of sec. 16.</p> <p>Set an aluminum driver, 72 ins. long, 3/4 in. diam., 64 ins. in the ground, encircled with a collar of stone, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W C 1/4 S16 2000</p> <p>Cor. is located within the flood plain of the Santa Maria River.</p>
42.30	Left bank of Santa Maria River, bears E. and W.
54.20	Right bank of Santa Maria River, 15 ft. high, bears E. and W.
60.02	<p>Point for the center N 1/16 sec. cor. of sec. 16.</p> <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, with brass cap mkd.</p> <p style="text-align: center;">T11N R11W C N 1/16   S16 C 2000</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
61.50	Leave bottom lands, enter rolling land, edge bears ESE and WNW.

Subdivision of Section 16,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
80.00	<p>The 1/4 sec. cor. of secs. 9 and 16, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. S9 1/4 S16 1914, with a mound of stone, 3½ ft. base, 2 ft. high to the N.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 15 and 16.</p> <p>S. 89°59' W., on the E. and W. center line of sec. 16, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Over bottom lands, through medium salt cedar.</p>
39.93	The center 1/4 sec. cor. of sec. 16.
42.70	Left bank of Santa Maria River, bears NE and SW.
77.11	<p>Point for AP 2, sec. 16.</p> <p>Set an aluminum driver, 43 ins. long, 3/4 in. diam., 41 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T11N R11W AMWA AP2 C ——— C S16 2002</p> </div> <p>Cor. is located approximately 1 ch. N. of active channel of Santa Maria River, on the south side of a cottonwood tree line.</p>
79.91	<p>The true point for the 1/4 sec. cor. of secs. 16 and 17.</p> <hr/> <p style="text-align: center;">NW 1/4</p> <hr/> <p>From the center N. 1/16 sec. cor. of sec. 16.</p> <p>S. 89°58' W., on the E. and W. center line of the NW 1/4 of sec. 16.</p> <p>Over bottom lands, through medium mesquite.</p>
6.35	Leave flood plain, enter rolling land, edge bears ENE and WSW.
40.02	The N. 1/16 sec. cor. of secs. 16 and 17.

Subdivision of Section 17,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 17 and 20, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. S17 1/4 S20 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <p>N. 0°01' E., on the N. and S. center line of sec. 17.</p> <p>Descending over rough and broken land.</p>
40.02	<p>Point for the center 1/4 sec. cor. of sec. 17, at intersection with the E. and W. center line of sec. 17.</p> <p>Not monumented.</p>
58.18	<p>Intersect line 5-6, sec. 17, of the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Bdy.</p>
59.98	<p>Point for the center N. 1/16 sec. cor. of sec. 17.</p> <p>Not monumented.</p>
79.94	<p>The 1/4 sec. cor. of secs. 8 and 17.</p> <hr/> <p>From the true point for the 1/4 sec. cor. of secs. 16 and 17.</p> <p>S. 89°54' W., on the E. and W. center line of sec. 17.</p> <p>Across bottom lands.</p>
40.10	<p>The point for the center 1/4 sec. cor. of sec. 17.</p>
60.145	<p>Point for the center W. 1/16 sec. cor. of sec. 17.</p> <p>Not monumented.</p>
80.19	<p>The 1/4 sec. cor. of secs. 17 and 18.</p> <hr/> <p style="text-align: center;">NW 1/4</p> <hr/> <p>From the point for the center W. 1/16 sec. cor. of sec. 17.</p> <p>N. 0°01' W., on the N. and S. center line of the NW 1/4 of sec. 17.</p> <p>Descending.</p>

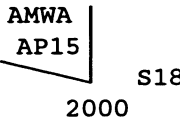
Subdivision of Section 17,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
17.12	Intersect line 2-3, sec. 17, of the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Bdy.
19.95	Point for the NW 1/16 sec. cor. of sec. 17, at intersection with the E. and W. center line of the NW 1/4 of sec. 17.  Set an aluminum driver, 43 ins. long, $\frac{3}{4}$ in. diam., 37 ins. in the ground, with aluminum cap mkd.  <div style="text-align: center;">T11N R11W NW 1/16 S17 2000</div> <p>Cor. is located on a bench within the dry bed of Santa Maria River.</p>
27.70	Bladed road, 12 ft. wide, bears ESE and WNW.
27.80	Barbed wire fence, 4 strand, bears ESE and NNW, for 1.60 chs. thence S. 10° W.
39.90	The W. 1/16 sec. cor. of secs. 8 and 17.
<hr/>	
	From the point for the center N. 1/16 sec. cor. of sec. 17.  S. 89° 53' W., on the E. and W. center line of the NW 1/4 of sec. 17.  Over bottom lands.
20.05	The NW 1/16 sec. cor. of sec. 17.
39.80	Point for AP 1, sec. 16.  Set an aluminum driver, 43 ins. long, $\frac{3}{4}$ in. diam., 39 ins. in the ground, with aluminum cap mkd.  <div style="text-align: center;">T11N R11W S17 <span style="border-left: 1px solid black; border-top: 1px solid black; padding-left: 5px;">AP1 AMWA</span> 2002</div> <p>Cor. located on small bench, within the dry bed of Santa Maria River.</p>
39.95	Bladed road, 15 lks. wide, bears N. and S.
40.10	The N. 1/16 sec. cor. of secs. 17 and 18.
<hr/>	

Subdivision of Section 18,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 18 and 19, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above the ground, in a mound of stone, 2½ ft. base, 1 ft. high, with brass cap mkd. S18 1/4 S19 1914.</p> <p>Add the marks T11N R11W 2000 to the brass cap.</p> <p>Cor. is located on top of W. side of a horseshoe shaped ridge.</p> <p>North, on the N. and S. center line of sec. 18.</p> <p>Descending over mountainous land, through scattered brush.</p>
40.04	<p>Point for the center 1/4 sec. cor. of sec. 18, at intersection with the E. and W. center line of sec. 18.</p> <p>Not monumented.</p>
59.30	<p>Left bank of Santa Maria River, at base of bluff, bears ESE and WSW.</p>
59.41	<p>Intersect line 11-12, sec. 18, of the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Bdy.</p>
59.60	<p>Stream of running water, 15 ft. wide, 6 ins. deep, course WSW.</p>
60.04	<p>Point for the center N. 1/16 sec. cor. of sec. 18.</p> <p>Not monumented.</p>
78.00	<p>Right bank of Santa Maria River, bears ESE and WNW.</p>
80.04	<p>The 1/4 sec. cor. of secs. 7 and 18.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 17 and 18.</p> <p>N. 89°57' W., on the E. and W. center line of sec. 18.</p> <p>Over mountainous land.</p>
20.005	<p>Point for the center E. 1/16 sec. cor. of sec. 18.</p> <p>Not monumented.</p>
40.01	<p>The point for the center 1/4 sec. cor. of sec. 18.</p>
79.08	<p>The 1/4 sec. cor. of sec. 18 only, on the W. bdy. of the Tp.</p> <hr/> <p style="text-align: center;">NE 1/4</p> <hr/>

Subdivision of Section 18,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the point for the center E. 1/16 sec. cor. of sec. 16.</p> <p>N. 0°01' W., on the N. and S. center line of the NE 1/4 of sec. 18.</p> <p>Descending over mountainous land.</p>
17.42	<p>Point for AP 15, sec. 18, on the Arrastra Mountain Wilderness Area Bdy.</p> <p>Set an aluminum driver, 72 ins. long, ¾ in. diam., 66 ins. in the ground, encircled with a collar of stone, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T11N R11W AMWA AP15</p>  <p>S18 2000</p> </div> <p>Cor. is located on a sandy bench, within the flood plain of the Santa Maria River.</p> <p>Thence, on the Arrastra Mountain Wilderness Area Bdy.</p>
19.97	<p>Point for the NE 1/16 sec. cor. of sec. 18, at intersection with the E. and W. center line of the NE 1/4 of sec. 18.</p> <p>Set an aluminum driver, 36 ins. long, ¾ in. diam., 33 ins. in the ground, encircled with a collar of stone, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T11N R11W NE 1/16 S18 2000</p> </div> <p>Cor. is located on a sandy bench, within the flood plain of the Santa Maria River.</p> <p>From this cor. point, a rebar, ½ in. diam., firmly set, projecting 5 ins. above ground, bears S. 1°28' E., 9 lks. dist., origin unknown.</p>
21.50	Center of main channel, Santa Maria River, course W.
23.60	Right bank of main channel, Santa Maria River, bears E. and W.
29.10	Enter dense mesquite, edge bears E. and W.
39.94	The E. 1/16 sec. cor. of secs. 7 and 18.

**Subdivision of Section 18,  
T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona**

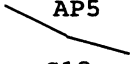
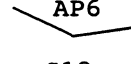
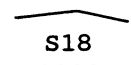
CHAINS	
	From the N. 1/16 sec. cor. of secs. 17 and 18.
	N. 89°52' W., on the E. and W. center line of the NE 1/4 of sec. 18.
	Over flood plain of Santa Maria River.
13.80	Stream of running water, 10 ft. wide, 1 ft. deep, course WNW.
20.005	The NE 1/16 sec. cor. of sec. 18.
33.68	Intersect line 13-14, sec. 18, of the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Bdy.
34.78	Intersect line 12-13, sec. 18, of the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Bdy.
40.01	The point for the center N. 1/16 sec. cor. of sec. 18.
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<b>Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b>	
<hr/>	
In Section 18	
<hr/>	
	AP 1 and AP 2 were established at the 1235 ft. elevation (NGVD 29). This elevation is identical with the elevation of the Alamo Dam spillway.
	From AP 1, sec. 18, identical with AP 15, sec. 13, T. 11 N., R. 12 W., on the line bet. secs. 13 and 18, on the W. bdy. of the Tp., hereinbefore described.
	S. 61°25' E., on line 1-2, sec. 18, along the 1235 ft. contour line.
	Across main channel of Santa Maria River.
2.60	Point for AP 2, sec. 18.
	Set an aluminum driver, 72 ins. long, 3/4 in. diam., 62 ins. in the ground, with aluminum cap mkd.
	T11N R11W AMWA AP2 <hr style="width: 50px; margin: 0 auto;"/> S18 2000

Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Cor. is located on the left bank of the Santa Maria River, 30 ft. N. of an abandoned road, both bear E. and W.</p> <hr/> <p>S. 82°09' E., on line 2-3, sec. 18.</p> <p>Along left bank of Santa Maria River.</p>
6.39	<p>Point for AP 3, sec. 18.</p> <p>Set an aluminum driver, 144 ins. long, <math>\frac{3}{4}</math> in. diam., 125 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP3 /----- S18 2000</p> <p>Cor. is located 30 ft. N. of an abandoned road, bears E. and W.</p> <hr/> <p>S. 84°23' E., on line 3-4, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p>
7.43	<p>Point for AP 4, sec. 18.</p> <p>Set an aluminum driver, 144 ins. long, <math>\frac{3}{4}</math> in. diam., 132 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP4 /----- S18 2000</p> <p>Cor. is located on a sandy bench, in the dry bed of the Santa Maria River, 30 ft. N. of a cliff face, identical with the left bank, bears ESE and W.</p> <hr/> <p>S. 63°26' E., on line 4-5, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p>
7.00	<p>Point for AP 5, sec. 18.</p> <p>Set an aluminum driver, 36 ins. long, <math>\frac{3}{4}</math> in. diam., 27 ins. in the ground, with aluminum cap mkd.</p>



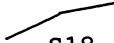
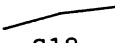
Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T11N R11W AMWA AP5  S18 2000</p> <p>Cor. is located on a sandy bench, in the dry bed of the Santa Maria River, 35 ft. N. of a cliff face, identical with the left bank, bears ESE and WNW.</p> <hr/>
1.39	<p>S. 67°06' E., on line 5-6, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p> <p>Point for AP 6, sec. 18.</p> <p>Set an aluminum driver, 108 ins. long, <math>\frac{3}{4}</math> in. diam., 96 ins. in the ground, with aluminum cap mkd.</p>
	<p style="text-align: center;">T11N R11W AMWA AP6  S18 2000</p> <p>Cor. is located on the left bank of the Santa Maria River, 30 ft. N. of an abandoned road, both bear E. and W.</p> <hr/>
2.13	<p>N. 81°30' E., on line 6-7, sec. 18.</p> <p>Along left bank of Santa Maria River.</p> <p>Point for AP 7, sec. 18.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 65 ins. in the ground, with aluminum cap mkd.</p>
	<p style="text-align: center;">T11N R11W AMWA AP7  S18 2000</p> <p>Cor. is located on the left bank of Santa Maria River, bears E. and W., and 6 ft. W. of a wash, drains NW.</p> <hr/>

Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>S. 71°03' E., on line 7-8, sec. 18.</p> <p>Across wash.</p>
2.47	<p>Point for AP 8, sec. 18.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 62 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP8 /</p> <p style="text-align: center;">S18 2000</p> <p>Cor. is located in dense brush, 30 ft. N. of an abandoned road, bears ENE and WSW.</p> <hr style="width: 30%; margin: 10px auto;"/>
3.62	<p>N. 66°36' E., on line 8-9, sec. 18.</p> <p>Point for AP 9, sec. 18.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 66 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP9 /</p> <p style="text-align: center;">S18 2000</p> <p>Cor. is located in dense brush, 30 ft. N. of an abandoned road, bears NNE and WSW.</p> <hr style="width: 30%; margin: 10px auto;"/>
2.17	<p>N. 38°58' E., on line 9-10, sec. 18.</p> <p>Point for AP 10, sec. 18.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 64 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP10 /</p> <p style="text-align: center;">S18 2000</p>

**Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Cor. is located in dense brush, 30 ft. N. of an abandoned road, bears NE and SSW.</p> <hr/> <p>N. 66°03' E., on line 10-11.</p>
5.80	<p>Point for AP 11, sec. 18.</p> <p>Set an aluminum driver, 36 ins. long, <math>\frac{3}{4}</math> in. diam., 31 ins. in the ground, with aluminum cap mkd.</p> <p align="center">T11N R11W AMWA AP11  S18 2000</p>
	<p>Cor. is located on left bank of Santa Maria River, 30 ft. N. of an abandoned road, bears E. and W.</p> <hr/> <p>N. 78°57' E., on line 11-12, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p>
1.07	<p>Intersect the N. and S. center line of sec. 18.</p> <p>From this point, the point for the center N. 1/16 sec. cor. of sec. 18, bears North, 0.63 ch. dist.</p>
2.94	<p>Point for AP 12, sec. 18.</p> <p>Set an aluminum driver, 108 ins. long, <math>\frac{3}{4}</math> in. diam., 100 ins. in the ground, with aluminum cap mkd.</p> <p align="center">T11N R11W AMWA AP12  S18 2000</p>
3.40	<p>Cor. is located on a sandy bench, in the dry bed of the Santa Maria River, 30 ft. N. of an abandoned road, bears E. and W.</p> <hr/> <p>N. 85°35' E., on line 12-13, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p> <p>Intersect the E. and W. center line of the NE 1/4 of sec. 18.</p>

**Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>From this point, the point for the center N. 1/16 sec. cor. of sec. 18, bears N. 89°52' W., 5.23 chs. dist.</p>
4.07	<p>Point for AP 13, sec. 18.</p> <p>Set an aluminum driver, 72 ins. long, <math>\frac{3}{4}</math> in. diam., 64 ins. in the ground, with aluminum cap mkd.</p> <p align="center">T11N R11W AMWA AP13 ----- S18 2000</p> <p>Cor. is located on a sandy bench in the dry bed of the Santa Maria River, 30 ft. N. of an abandoned road, bears E. and W.</p> <p align="center">-----</p> <p>S. 82°50' E., on line 13-14, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p>
0.44	<p>Intersect the E. and W. center line of the NE 1/4 of sec. 18.</p> <p>From this point, the NE 1/16 sec. cor. of sec. 18, bears S. 89°52' E., 13.675 chs. dist., hereinbefore described.</p>
11.91	<p>Point for AP 14, sec. 18.</p> <p>Set an aluminum driver, 108 ins. long, <math>\frac{3}{4}</math> in. diam., 100 ins. in the ground, with aluminum cap mkd.</p> <p align="center">T11N R11W AMWA AP14 ----- S18 2000</p> <p>Cor. is located on a sandy bench in the dry bed Santa Maria River, 30 ft. N. of an abandoned road, bears E. and W.</p> <p align="center">-----</p> <p>S. 63°22' E., on line 14-15, sec. 18.</p> <p>Over dry bed of Santa Maria River.</p>
2.57	<p>AP 15, sec. 18, on the N. and S. center line of the NE 1/4 of sec. 18, hereinbefore described.</p> <p align="center">-----</p>




Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>In Section 17</p> <hr/>
	<p>From AP 1, sec. 17, on the E. and W. center line of the NW 1/4 of sec. 17, hereinbefore described.</p> <p>S. 0°02' E., on line 1-2, sec. 17, 30 lks. easterly of the line bet. secs. 17 and 18.</p> <p>Along the east edge of a bladed road, in the dry bed of Santa Maria River.</p>
9.63	<p>Point for AP 2, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 40 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> </div>
	<hr/>
	<p>N. 70°53' E., on line 2-3, sec. 17.</p> <p>Over bottom lands, approximately 50 lks. northerly of irrigation canal.</p>
20.89	<p>Intersect the N. and S. center line of the NW 1/4 of sec. 17.</p> <p>From this point, the NW 1/16 sec. cor. of sec. 17, bears N. 0°01' W., 2.83 chs. dist., hereinbefore described.</p>
22.32	<p>Point for AP 3, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 37 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> </div>
	<hr/>
	<p>N. 89°34' E., on line 3-4, sec. 17.</p> <p>Along the left cut bank of the Santa Maria River, approximately 50 lks. northerly of irrigation canal.</p>

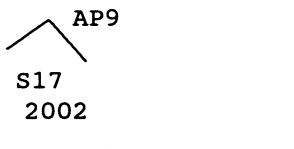
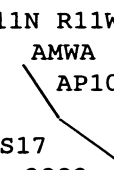
Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
9.12	<p>Point for AP 4, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 24 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP4 ----- S17 2002</p> <hr/> <p>N. 86°19' E., on line 4-5, sec. 17.</p> <p>In the dry bed of the Santa Maria River, approximately 50 lks. northerly of irrigation canal.</p>
8.12	<p>Point for AP 5, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 37 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP5 ----- S17 2002</p> <hr/> <p>N. 89°28' E., on line 5-6, sec. 17.</p> <p>Along S. edge of tree line, approximately 50 lks. northerly of irrigation canal.</p>
1.47	<p>Intersect the N. and S. center line of sec. 17.</p> <p>From this point, the point for the center N 1/16 sec. cor. of sec. 17, bears N. 0°01' E., 1.80 chs. dist.</p>
15.44	<p>Point for AP 6, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 37 ins. in the ground, with aluminum cap mkd.</p>

Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T11N R11W AMWA AP6</p>  <p style="text-align: center;">S17 2002</p> <hr/> <p>S. 73°36' E., on line 6-7, sec. 17.</p> <p>Along S. edge of tree line, approximately 50 lks. northerly of irrigation canal.</p>
15.58	<p>Point for AP 7, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{8}</math> in. diam., 39 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T11N R11W AMWA AP7</p>  <p style="text-align: center;">S17 2002</p> <hr/> <p>S. 40°31' E., on line 7-8, sec. 17.</p> <p>Along S. edge of tree line.</p>
5.75	<p>Barbed wire fence, 4 strand, bears SE and NW.</p>
5.78	<p>Point for AP 8, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{8}</math> in. diam., 39 ins. in the ground, with aluminum cap mkd.</p>
1.50	<p style="text-align: center;">T11N R11W AMWA AP8</p>  <p style="text-align: center;">S17 2002</p> <hr/> <p>N. 50°41' E., on line 8-9, sec. 17.</p> <p>Active channel of Santa Maria River, 30 lks. wide, 1 ft. deep, course NNW.</p>

Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS	
2.55	<p>Point for AP 9, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 37 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T11N R11W AMWA AP9 S17 2002</p>  </div> <p>S. 28°04' E., on line 9-10, sec. 17.</p> <p>Along S. edge of tree line.</p>
8.27	<p>Point for AP 10, sec. 17.</p> <p>Set an aluminum driver, 43 ins. long, <math>\frac{3}{4}</math> in. diam., 39 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T11N R11W AMWA AP10 S17 2002</p>  </div> <p>Cor. is located approximately 1 ch. N. of active channel of Santa Maria River.</p> <p>S. 49°23' E., on line 10-11, sec. 17.</p> <p>Along S. edge of tree line.</p>
2.06	<p>The point for AP 11, sec. 17, identical with AP 1, sec. 16, on the line bet. secs. 16 and 17, hereinbefore described.</p> <p>From this point, the witness cor. to the 1/4 sec. cor. of secs. 16 and 17, bears S. 0°02' E., 4.58 chs. dist., hereinbefore described.</p> <hr/> <p style="text-align: center;">In Section 16</p> <hr/> <p>From the point for AP 1, sec. 16, identical with AP 11, sec. 17, on the line bet. secs. 16 and 17.</p> <p>S. 49°23' E., on line 1-2, sec. 16.</p>



**Metes-and-Bounds Survey of the Arrastra Mountain Wilderness Area  
Bdy., T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona**

<p>CHAINS</p> <p>3.70</p>	<p>Along S. edge of tree line.</p> <p>AP 2, sec. 16, on the E. and W. center line of sec. 16, hereinbefore described.</p> <hr/> <p align="center">GENERAL DESCRIPTION</p> <hr/> <p>The area embraced by this survey varies from nearly level along the flood plain of the Santa Maria River, to rolling and mountainous. The elevation ranges from about 1200 ft. to 1600 ft. above sea level. The soil varies from sandy in the lower elevations to rocky in the higher elevations.</p> <p>Cottonwoods are the dominant species along the river course, with palo verde dominating the rocky grounds. Thick stands of salt cedar and mesquite are also present.</p> <p>The mean magnetic declination of 12½° E., was derived from the United States Geological Survey computer program GEOMAGIX, utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of the survey.</p> <hr/> <p align="center"><b>Description of the Arrastra Mountain Wilderness Area Bdy. T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona</b></p> <hr/> <p align="center">The following is for informational purposes only.</p> <hr/> <p>Beginning at Angle Point 1, sec. 18, identical with Angle Point 15, sec. 13, T. 11 N., R. 12 W., on the line bet. secs. 13 and 18, on the W. bdy. of the Tp.</p> <p>thence S. 61°25' E., 2.60 chs. dist. to Angle Point 2, sec. 18;  thence S. 82°09' E., 6.39 chs. dist. to Angle Point 3, sec. 18;  thence S. 84°23' E., 7.43 chs. dist. to Angle Point 4, sec. 18;  thence S. 63°26' E., 7.00 chs. dist. to Angle Point 5, sec. 18;  thence S. 67°06' E., 1.39 chs. dist. to Angle Point 6, sec. 18;  thence N. 81°30' E., 2.13 chs. dist. to Angle Point 7, sec. 18;  thence S. 71°03' E., 2.47 chs. dist. to Angle Point 8, sec. 18;  thence N. 66°36' E., 3.62 chs. dist. to Angle Point 9, sec. 18;  thence N. 38°58' E., 2.17 chs. dist. to Angle Point 10, sec. 18;  thence N. 66°03' E., 5.80 chs. dist. to Angle Point 11, sec. 18;  thence N. 78°57' E., 2.94 chs. dist. to Angle Point 12, sec. 18;  thence N. 85°35' E., 4.07 chs. dist. to Angle Point 13, sec. 18;  thence S. 82°50' E., 11.91 chs. dist. to Angle Point 14, sec. 18;  thence S. 63°22' E., 2.57 chs. dist. to Angle Point 15, sec. 18,  on the N. and S. center line of the NE 1/4 of sec. 18;</p>
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## T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona

CHAINS

thence N. 0°01' W., 22.52 chs. dist. on the N. and S. center line of the NE 1/4 of sec. 18, to the E. 1/16 sec. cor. of secs. 7 and 18;

thence S. 89°47' E., 20.00 chs. dist., bet. secs. 7 and 18, to the cor. of secs. 7, 8, 17 and 18;

thence N. 89°52' E., 20.055 chs. dist., bet. secs. 8 and 17, to the W. 1/16 sec. cor. of secs. 8 and 17;

thence S. 0°01' E., 19.95 chs. dist., on the N. and S. center line of the NW 1/4 of sec. 17, to the NW 1/16 sec. cor. of sec. 17;

thence S. 89°53' W., 19.75 chs. dist., on the E. and W. center line of the NW 1/4 of sec. 17, to AP 1, sec. 17;

thence S. 0°02' E., 9.63 chs. dist. to Angle Point 2, sec. 17;

thence N. 70°53' E., 22.32 chs. dist. to Angle Point 3, sec. 17;

thence N. 89°34' E., 9.12 chs. dist. to Angle Point 4, sec. 17;

thence N. 86°19' E., 8.12 chs. dist. to Angle Point 5, sec. 17;

thence N. 89°28' E., 15.44 chs. dist. to Angle Point 6, sec. 17;

thence S. 73°36' E., 15.58 chs. dist. to Angle Point 7, sec. 17;

thence S. 40°31' E., 5.78 chs. dist. to Angle Point 8, sec. 17;

thence N. 50°41' E., 2.55 chs. dist. to Angle Point 9, sec. 17;

thence S. 28°04' E., 8.27 chs. dist. to Angle Point 10, sec. 17;

thence S. 49°23' E., 2.06 chs. dist. to Angle Point 11, sec. 17, identical with AP 1, sec. 16, on the line bet. secs. 16 and 17.

thence S. 49°23' E., 3.70 chs. dist. to Angle Point 2, sec. 16, on the E. and W. center line of sec. 16.

thence N. 89°59' E., 77.11 chs. dist., on the E. and W. center line of sec. 16, to the 1/4 sec. cor. of secs. 15 and 16;

thence S. 0°02' E., 19.99 chs. dist., bet. secs. 15 and 16, to the S. 1/16 sec. cor. of secs. 15 and 16;

thence East, 40.00 chs. dist., on the E. and W. center line of the SW 1/4 of sec. 15, to the center S 1/16 sec. cor. of sec. 15;

thence East, 40.04 chs. dist., on the E. and W. center line of the SE 1/4 of sec. 15, to the S. 1/16 sec. cor. of secs. 14 and 15;

thence N. 0°02' E., 19.98 chs. dist., bet. secs. 14 and 15, to the 1/4 sec. cor. of secs. 14 and 15;

thence N. 89°48' E., 79.84 chs. dist., on the E. and W. center line of sec. 14, to the 1/4 sec. cor. of secs. 13 and 14;

thence N. 89°50' E., 79.95 chs. dist., on the E. and W. center line of sec. 13, to the 1/4 sec. cor. of secs. 13 and 18, on the E. bdy. of the Tp.



## CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 11<sup>th</sup> day of January, 2000, I have dependently resurveyed a portion of the west boundary and a portion of the subdivisional lines, subdivided sections 13, 14, 15, 16, 17 and 18 and executed the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Boundary, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

JULY 3, 2002  
(Date)

Gordon R. Bubel  
(Cadastral Surveyor)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines, the subdivision of sections 13, 14, 15, 16, 17 and 18 and the metes-and-bounds survey of the Arrastra Mountain Wilderness Area Boundary, T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona, executed by Gordon R. Bubel, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

July 24, 2002  
(Date)

Henny D. Rawmbar  
(Chief Cadastral Surveyor of Arizona)

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 CERTIFICATE OF TRANSCRIPT
 

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I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 11 N., R. 11 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Chief Cadastral Surveyor of Arizona)