

ORIGINAL

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

FIELD NOTES
OF THE
METES-AND-BOUNDS SURVEY
OF A PORTION OF THE
MOUNT TIPTON WILDERNESS AREA BOUNDARY
IN SECTION 17

TOWNSHIP 25 NORTH, RANGE 18 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Craig S. Dukart, Cadastral Surveyor

Under Special Instructions dated October 22, 2009, approved October 22, 2009, which provided for the surveys included under Group No. 1073, and assignment instructions dated October 22, 2009.

Survey commenced November 3, 2009

Survey completed December 8, 2009

INDEX DIAGRAM

TOWNSHIP 25 NORTH RANGE 18 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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Metes-and-Bounds Survey in Sec. 17Pages 4-10

T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the metes-and-bounds survey of a portion of the Mount Tipton Wilderness Area Boundary in section 17, Township 25 North, Range 18 West, Gila and Salt River Meridian, Arizona.

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

Gordon R. Bubel, Cadastral Surveyor dependently resurveyed portions of the Sixth Standard Parallel North, through Range 18 West, portions of the Fifth Guide Meridian West through Township 25 North, and a portion of the subdivisional lines, subdivided sections 17, 18 and 31, and executed the metes-and-bounds survey of the Mount Tipton Wilderness Area Boundary Township 25 North, Range 18 West, Gila and Salt River Meridian, in 1995.

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 October 22, 2009, for Group Number 1073, Arizona.

The Mount Tipton Wilderness Area Boundary was determined at a 30 foot offset on either side of the center line of a track road heading to Indian Springs, and includes a 30 foot buffer around the springs and water trough.

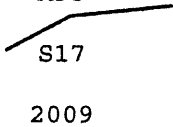
The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 and 5800 model receivers.

Geodetic control was derived from Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) DI1079 NVLM AMS WT FACILITY CORS ARP, DL1709 AZBH BULLHEAD CITY CORS ARP and AM7015 KING KINGMAN CORS ARP. The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the Angle Point No. 1, section 17, identical with Angle Point No. 29, section 18, is as follows:

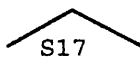

Latitude: 35°33'20.82" N. Longitude: 114°14'18.24" W.

The mean magnetic declination is 12 1/4° E.

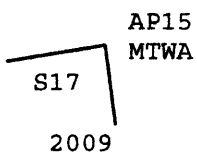
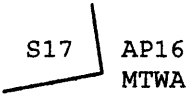
**Metes-and-Bounds Survey of a Portion
of the Mount Tipton Wilderness Area Bdy.
T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	In Sec. 17
	<hr/> <p>Beginning at AP 29, sec. 18, on the line bet. secs. 17 and 18, identical with AP 1, Sec. 17, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 9 ins. above the ground, in a mound of stone, 2 1/2 ft. base, to brass cap mkd. T25N R18W MTWA AP29 S17 S18 1995.</p> <p>Add the marks MTWA AP1 2009 to the brass cap.</p> <p>N. 55°43' E., on line 1-2.</p>
1.11	Point for AP 2, sec. 17; not monumented.
	<hr/> <p>N. 42°18' E., on line 2-3.</p>
1.65	Point for AP 3, sec. 17; not monumented.
	<hr/> <p>N. 86°24' E., on line 3-4.</p>
1.62	Point for AP 4, sec. 17; not monumented.
	<hr/> <p>N. 53°21' E., on line 4-5.</p>
1.305	Point for AP 5, sec. 17.
	<p>Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 31 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T 25 N R 18 W MTWA AP5  S17 2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr/>
	<p>N. 78°35' E., on line 5-6.</p>
1.49	Point for AP 6, sec. 17; not monumented.
	<hr/> <p>N. 64°40' E., on line 6-7.</p>
3.425	Point for AP 7, sec. 17.

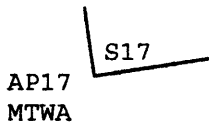
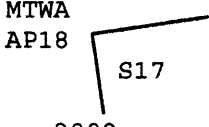
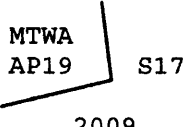
**Metes-and-Bounds Survey of a Portion
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T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Drive an aluminum rod, 23 ins. long, 3/4 in. diam., 16 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T 25 N R 18 W MTWA AP7  2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr/> <p>S. 72°41' E., on line 7-8.</p>
1.22	<p>Point for AP 8, sec. 17; not monumented.</p> <hr/> <p>N. 67°59' E., on line 8-9.</p>
1.845	<p>Point for AP 9, sec. 17; not monumented.</p> <hr/> <p>S. 85°09' E., on line 9-10.</p>
1.44	<p>Point for AP 10, sec. 17; not monumented.</p> <hr/> <p>S. 63°57' E., on line 10-11.</p>
0.935	<p>Point for AP 11, sec. 17.</p> <p>Drive an aluminum rod, 16 ins. long, 3/4 in. diam., 11 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T 25 N R 18 W MTWA AP11  2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr/> <p>S. 84°06' E., on line 11-12.</p>
2.18	<p>Point for AP 12, sec. 17; not monumented.</p> <hr/>

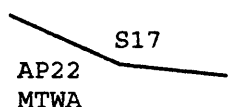
**Metes-and-Bounds Survey of a Portion
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T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	S. 43°51' E., on line 12-13.
0.93	Point for AP 13, sec. 17; not monumented. <hr/>
	S. 20°29' E., on line 13-14.
0.85	Point for AP 14, sec. 17; not monumented. <hr/>
	N. 87°58' E., on line 14-15.
1.885	Point for AP 15, sec. 17. Drive an aluminum rod, 31 ins. long, 3/4 in. diam., 26 ins. in the ground, with aluminum cap mkd. T 25 N R 18 W  Deposit a magnet, in a white plastic case, alongside the aluminum rod. <hr/>
	S. 5°22' E., on line 15-16.
1.56	Point for AP 16, sec. 17. Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 33 ins. in the ground, with aluminum cap mkd. T 25 N R 18 W  Deposit a magnet, in a white plastic case, alongside the aluminum rod. From this point a spring, bears N. 50°51' W., 64.5 lks. dist., consisting of a circular concrete ring, with the date 1920 etched into it, and a concrete cap. <hr/>
	S. 84°35' W., on line 16-17.


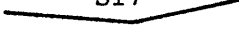
**Metes-and-Bounds Survey of a Portion
of the Mount Tipton Wilderness Area Bdy.
T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
3.16	<p>Point for AP 17, sec. 17.</p> <p>Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 30 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T 25 N R 18 W</p>  <p>MTWA</p> </div> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <p>From this point, the SW cor. of a concrete water trough, bears N. 38°42' E., 63.5 lks. dist., 7 x 20 ft., 1 ft. high, long side extends N. 80° E., with INDIAN SPRINGS 1918 etched into it.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 5°47' W., on line 17-18.</p>
1.015	<p>Point for AP 18, sec. 17.</p> <p>Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 20 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T 25 N R 18 W</p>  <p>MTWA AP18</p> </div> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 84°47' E., on line 18-19.</p>
0.65	<p>Point for AP 19, sec. 17.</p> <p>Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 32 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T 25 N R 18 W</p>  <p>MTWA AP19</p> </div> <p style="text-align: center;">2009</p>

**Metes-and-Bounds Survey of a Portion
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T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	Deposit a magnet, in a white plastic case, alongside the aluminum rod. <hr style="width: 50%; margin: 10px auto;"/>
1.24	N. 26°17' W., on line 19-20. Point for AP 20, sec. 17; not monumented. <hr style="width: 50%; margin: 10px auto;"/>
0.28	N. 40°34' W., on line 20-21. Point for AP 21, sec. 17; not monumented. <hr style="width: 50%; margin: 10px auto;"/>
1.70	N. 84°44' W., on line 21-22. Point for AP 22, sec. 17. Drive an aluminum rod, 36 ins. long, 3/4 in. diam., 33 ins. in the ground, with aluminum cap mkd. <div style="text-align: center; margin: 10px 0;"> T 25 N R 18 W  2009 </div>
	Deposit a magnet, in a white plastic case, alongside the aluminum rod. <hr style="width: 50%; margin: 10px auto;"/>
1.29	N. 69°00' W., on line 22-23. Point for AP 23, sec. 17; not monumented. <hr style="width: 50%; margin: 10px auto;"/>
1.06	N. 85°02' W., on line 23-24. Point for AP 24, sec. 17; not monumented. <hr style="width: 50%; margin: 10px auto;"/>
1.84	S. 68°02' W., on line 24-25. Point for AP 25, sec. 17; not monumented. <hr style="width: 50%; margin: 10px auto;"/>
1.29	N. 72°53' W., on line 25-26. Point for AP 26, sec. 17.

**Metes-and-Bounds Survey of a Portion
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T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Drive an aluminum rod, 28 ins. long, 3/4 in. diam., 18 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T 25 N R 18 W</p> <p style="text-align: center;">S17</p> <p style="text-align: center;">  AP26 MTWA </p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr/> <p>S. 63°20' W., on line 26-27.</p>
3.15	<p>Point for AP 27, sec. 17; not monumented.</p> <hr/> <p>S. 78°08' W., on line 27-28.</p>
1.54	<p>Point for AP 28, sec. 17.</p> <p>Drive an aluminum rod, 29 ins. long, 3/4 in. diam., 19 ins. in the ground, with aluminum cap mkd.</p> <p style="text-align: center;">T 25 N R 18 W</p> <p style="text-align: center;">S17</p> <p style="text-align: center;">  AP28 MTWA </p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, alongside the aluminum rod.</p> <hr/> <p>S. 50°59' W., on line 28-29.</p>
1.19	<p>Point for AP 29, sec. 17; not monumented.</p> <hr/> <p>S. 88°01' W., on line 29-30.</p>
1.55	<p>Point for AP 30, sec. 17; not monumented.</p> <hr/> <p>S. 41°42' W., on line 30-31.</p>

**Metes-and-Bounds Survey of a Portion
of the Mount Tipton Wilderness Area Bdy.
T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>1.46 Point for AP 31, sec. 17; not monumented.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 56°21' W., on line 31-32.</p> <p>1.865 AP 30, sec. 18, on the line bet. secs. 17 and 18, identical with AP 32, sec. 17, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 13 ins. above the ground, in a mound of stone, 2 1/2 ft. base, to brass cap mkd. T25N R18W S18 S17 AP30 MTWA 1995.</p> <p>Add the marks MTWA AP32 2009 to the brass cap.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr style="width: 80%; margin: 10px auto;"/> <p>The intent of this survey is to exclude the track road, 8 ft. wide, leading to Indian Springs, and a small area around Indian Springs, from the Mount Tipton Area Wilderness.</p> <p>The terrain is rolling and strewn with boulders, and at an elevation near 3,800 ft.</p> <p>The mean magnetic declination of 12 1/4° E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field Model for years 2005 through 2010, for the dates of the survey.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">Description of a Portion of the Mount Tipton Wilderness Area Bdy. in Section 17, T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">The following is for informational purposes only.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>Beginning at AP 1, sec. 17, identical with AP 29, Sec. 18, on the line bet. secs. 17 and 18.</p> <p>Thence N. 55°43' E., 1.11 chs. dist. to Angle Point 2, sec. 17; Thence N. 42°18' E., 1.65 chs. dist. to Angle Point 3, sec. 17; Thence N. 86°24' E., 1.62 chs. dist. to Angle Point 4, sec. 17; Thence N. 53°21' E., 1.305 chs. dist. to Angle Point 5, sec. 17. Thence N. 78°35' E., 1.49 chs. dist. to Angle Point 6, sec. 17; Thence N. 64°40' E., 3.425 chs. dist. to Angle Point 7, sec. 17. Thence S. 72°41' E., 1.22 chs. dist. to Angle Point 8, sec. 17; Thence N. 67°59' E., 1.845 chs. dist. to Angle Point 9, sec. 17; Thence S. 85°09' E., 1.44 chs. dist. to Angle Point 10, sec. 17; Thence S. 63°57' E., 0.935 chs. dist. to Angle Point 11, sec. 17.</p>
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T. 25 N., R. 18 W., Gila and Salt River Meridian, Arizona

CHAINS

Thence S. 84°06' E., 2.18 chs. dist. to Angle Point 12, sec. 17;
 Thence S. 43°51' E., 0.93 chs. dist. to Angle Point 13, sec. 17;
 Thence S. 20°29' E., 0.85 chs. dist. to Angle Point 14, sec. 17;
 Thence N. 87°58' E., 1.885 chs. dist. to Angle Point 15,
 sec. 17.
 Thence S. 5°22' E., 1.56 chs. dist. to Angle Point 16, sec. 17.
 Thence S. 84°35' W., 3.16 chs. dist. to Angle Point 17, sec. 17.
 Thence N. 5°47' W., 1.015 chs. dist. to Angle Point 18, sec. 17.
 Thence N. 84°47' E., 0.65 chs. dist. to Angle Point 19, sec. 17.
 Thence N. 26°17' W., 1.24 chs. dist. to Angle Point 20, sec. 17;
 Thence N. 40°34' W., 0.28 chs. dist. to Angle Point 21, sec. 17;
 Thence N. 84°44' W., 1.70 chs. dist. to Angle Point 22, sec. 17.
 Thence N. 69°00' W., 1.29 chs. dist. to Angle Point 23, sec. 17;
 Thence N. 85°02' W., 1.06 chs. dist. to Angle Point 24, sec. 17;
 Thence S. 68°02' W., 1.84 chs. dist. to Angle Point 25, sec. 17;
 Thence N. 72°53' W., 1.29 chs. dist. to Angle Point 26, sec. 17.
 Thence S. 63°20' W., 3.15 chs. dist. to Angle Point 27, sec. 17;
 Thence S. 78°08' W., 1.54 chs. dist. to Angle Point 28, sec. 17.
 Thence S. 50°59' W., 1.19 chs. dist. to Angle Point 29, sec. 17;
 Thence S. 88°01' W., 1.55 chs. dist. to Angle Point 30, sec. 17;
 Thence S. 41°42' W., 1.46 chs. dist. to Angle Point 31, sec. 17;
 Thence S. 56°21' W., 1.865 chs. dist. to Angle Point 32,
 sec. 17, identical with Angle Point 30 sec. 18, on the
 line bet. secs. 17 and 18.

CERTIFICATE OF SURVEY

I, Craig S. Dukart, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 22nd day of October, 2009, I have performed the metes-and-bounds survey of a portion of the Mount Tipton Wilderness Area Boundary in section 17, Township 25 North, Range 18 West, Gila and Salt River Meridian, Arizona., in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

4/19/11
(Date)

Craig S. Dukart
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the metes-and-bounds survey of a portion of the Mount Tipton Wilderness Area Boundary in section 17, Township 25 North, Range 18 West, of the Gila and Salt River Meridian, in the State of Arizona, executed by Craig S. Dukart, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

4/26/2011
(Date)

Stephen K. Hansen
(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. 25 N., R. 18 W., of the Gila and Salt River Meridian, in the State of Arizona, is a true copy of the original field notes.~~

~~_____~~
~~(Date)~~

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