

ORIGINAL

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

FIELD NOTES  
OF THE SURVEY OF  
A PORTION OF THE EAST BOUNDARY  
AND  
A PORTION OF THE SUBDIVISIONAL LINES,  
  
**TOWNSHIP 2 SOUTH, RANGE 18 EAST,**  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Christopher P. McDonald, Cadastral Surveyor**

Under Special Instructions dated March 15, 2010, approved March 15, 2010, which provided for the surveys included under Group No. 1074, and assignment instructions dated December 17, 2010.

**Survey commenced July 18, 2010**

**Survey completed July 30, 2010**

**INDEX DIAGRAM**

**TOWNSHIP 2 SOUTH      RANGE 18 EAST  
GILA AND SALT RIVER MERIDIAN, ARIZONA**

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**Survey of a Portion of the East Boundary,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

CHAINS																									
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td style="text-align: center;">T 2 S</td><td></td></tr> <tr><td style="text-align: center;">R 18 E</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">R 19 E</td></tr> <tr><td style="text-align: center;">S 13</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 18</td></tr> <tr><td style="text-align: center;">S 24</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 19</td></tr> </table> </div> <p style="text-align: center;">2010</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Raise a mound of stone, 2 1/2 ft. base 2 ft. high, W. of cor.</p> <p>From this cor., the cor. of Tps. 2 and 3 S., Rs. 18 and 19 E., bears South, 240 chs. dist., monumented with a stainless steel post, 28 ins. long, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. T2S R18E R19E S36 S31 S1 S6 T3S 2009. Add the marks 2010 to the brass cap.</p> <p>Terrain, rolling to broken. Soil, silted loam. Timber, mesquite; undergrowth, creosote.</p> <hr/> <p>North, bet. secs. 13 and 18, along the E. bdy. of the Tp. Over rolling and broken terrain.</p> <p>3.90 Graveled road, 20 ft. wide, bears N. 75° E. and N. 60° W.</p> <p>40.00 Point for the 1/4 sec. cor. of secs. 13 and 18.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td style="text-align: center;">T 2 S</td><td></td></tr> <tr><td style="text-align: center;">R 18 E</td><td style="text-align: center;">R 19 E</td><td></td></tr> <tr><td></td><td style="text-align: center;">1/4</td><td></td></tr> <tr><td style="text-align: center;">S 13</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 18</td></tr> </table> </div> <p style="text-align: center;">2010</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a steel "T-post" fence post near the cor.</p> <p>50.50 Enter the flood plain of the San Carlos River, bears S. 30 E. and N. 20° W.</p> <p>80.00 Point for the cor. of secs. 7, 12, 13 and 18.</p>		T 2 S		R 18 E		R 19 E	S 13		S 18	S 24		S 19		T 2 S		R 18 E	R 19 E			1/4		S 13		S 18
	T 2 S																								
R 18 E		R 19 E																							
S 13		S 18																							
S 24		S 19																							
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R 18 E	R 19 E																								
	1/4																								
S 13		S 18																							

Survey of a Portion of the East Boundary,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, underpinned with a 6 ft. steel fence post, with brass cap mkd.

	T 2 S	
R 18 E		R 19 E
S 12		S 7
S 13		S 18

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a steel "T-post" fence post near the cor.

Terrain, rolling to flat (river bottom).

Soil, sand and silt.

Timber, salt cedar and willow; undergrowth, native grasses.

North, bet. secs. 7 and 12, along the E. bdy. of the Tp.

Over rolling and broken terrain.

27.50 Center of Arizona Eastern railroad tracks, bears S. 75° E. and N. 75° W.

40.00 True point for the 1/4 sec. cor. of secs. 7 and 12; falls in the San Carlos River, where it is impracticable to establish a permanent monument.

From this true point, the point selected for a witness cor. to the 1/4 sec. cor. of secs. 7 and 12, bears N. 61°46' E., 11.66 chs. dist.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.

	WC	
	T 2 S	
R 18 E		R 19 E
	1/4	
S 12		S 7
	↙	

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Raise a mound of stone, 3 ft. base 2 1/2 ft. high, W. of cor.

**Survey of a Portion of the East Boundary,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

CHAINS													
67.50	Graded road along a El Paso gas pipeline, 25 ft. wide, bears S. 75° E. and N. 75° W.												
80.00	Point for the cor. of secs. 1, 6, 7 and 12.  Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.  <div style="text-align: center;"> <table style="margin: auto;"> <tr><td></td><td style="text-align: center;">T 2 S</td><td></td></tr> <tr><td style="text-align: center;">R 18 E</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">R 19 E</td></tr> <tr><td style="text-align: center;">S 1</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 6</td></tr> <tr><td style="text-align: center;">S 12</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 7</td></tr> </table> <p>2010</p> </div> Deposit a magnet, in a white plastic case, at the base of the stainless steel post.  Set a steel "T-post" fence post near the cor.  Terrain, rolling to broken. Soil, loam. Timber, mesquite; undergrowth, native grasses.  <hr style="width: 50%; margin-left: auto; margin-right: auto;"/> North, bet. secs. 1 and 6, along the E. bdy. of the Tp.  Over rolling and broken terrain.		T 2 S		R 18 E		R 19 E	S 1		S 6	S 12		S 7
	T 2 S												
R 18 E		R 19 E											
S 1		S 6											
S 12		S 7											
40.00	Point for the 1/4 sec. cor. of secs. 1 and 6.  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;"> <table style="margin: auto;"> <tr><td></td><td style="text-align: center;">T 2 S</td><td></td></tr> <tr><td style="text-align: center;">R 18 E</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">R 19 E</td></tr> <tr><td></td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td></td></tr> <tr><td style="text-align: center;">S 1</td><td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> </td><td style="text-align: center;">S 6</td></tr> </table> <p>2010</p> </div> Deposit a magnet, in a white plastic case, at the base of the stainless steel post.  Set a steel "T-post" fence post near the cor.		T 2 S		R 18 E		R 19 E				S 1		S 6
	T 2 S												
R 18 E		R 19 E											
S 1		S 6											
44.60	Leave the flood plain of the San Carlos River, bears S.45 E. and N. 40 W.												
62.30	Asphalt road, 30 ft. wide, bears S. 75° E. and N. 75° W.												
72.60	Rodeo Lane, asphalt road, 30 ft. wide, bears S. 75° E. and N. 75° W.												

**Survey of a Portion of the East Boundary,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

## CHAINS

76.60 Asphalt road, 30 ft. wide, bears N. 20° E. and S. 20° W.

80.00 The cor. of Tps. 1 and 2 S., Rs. 18 and 19 E. monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, 1 in. below ground, with brass cap mkd. T1S R18E R19E S36 S31 S1 S6 T2S 2010 2009.

Terrain, rolling to broken.  
Soil, sandy loam.  
Timber, mesquite; undergrowth, grass.

**Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

Point for the cor. of secs. 13, 14, 23 and 24, determined West, 80.00 chs. dist., and N. 0°01' W., 240.00 chs. dist., from the cor. of Tps. 2 and 3 S., Rgs. 18 and 19 E., hereinbefore described.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.

T 2 S	R 18 E
S 14	S 13
S 23	S 24

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Raise a mound of stone, 2 1/2 ft. base, 2 ft. high, W. of cor.

Terrain, rolling to broken.  
Soil, sandy loam.  
Timber, mesquite; undergrowth, creosote and cats claw.

From the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., hereinbefore described.

West, bet. secs. 13 and 24.

Over rolling and broken terrain.

40.00 Point for the 1/4 sec. cor. of secs. 13 and 24.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.

Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	T 2 S R 18 E S 13 1/4 ——— S 24  2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	Raise a mound of stone, 2 1/2 ft. base 2 1/2 ft. high, N. of cor.
	Cor. is located on a ridge, bears S. 80° E. and N. 55° W.
80.00	The cor. of secs. 13, 14, 23 and 24.  Terrain, rolling to broken. Soil, sandy loam. Timber, mesquite; undergrowth, creosote and cats claw.
	N. 0°01' W., bet. secs. 13 and 14.  Over rolling and broken terrain.
39.95	Indian Route No. 170, asphalt surfaced, 27 ft. wide, bears N. 60° E. and S. 70° W.
40.00	The point for the 1/4 sec. cor. of secs. 13 and 14; falls in Indian Route No. 170.  Set a cotton picker spindle, 4 1/2 ins. long, 1/2 in. diam., flush with the asphalt surface, with an iron washer, 2 ins. diam., mkd.
	T 2 S R 18 E 1/4 S 14       S 13 BLM 2010
	from which
	A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 25 ins. in the ground for a reference monument, bears N. 44°59' E., 132.0 ft. dist. with brass cap mkd. RM T2S R18E 132.0 FT TO COR S13 2010 and an arrow pointing to the cor.

Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS							
	<p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 23 ins. in the ground for a reference monument, bears N. 45°00' W., 66.0 ft. dist. with brass cap mkd. RM T2S R18E 66.0 FT TO COR S14 2010 and an arrow pointing to the cor.</p> <p>A brass tablet, 3 ins. diam., in a concrete slab, projecting 3 ins. above ground, bears N. 61°28' W., 119.1 ft. dist. mkd. U.S. DEPT OF THE INTERIOR ELEV. C-15A 2663.92 P.T. STA. 153+80.21 R.P. 100' RT 1971.</p>						
59.90	Enter a circular cultivated field.						
80.00	<p>Point for the cor. of secs. 11, 12, 13 and 14, located in a circular cultivated field.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 30 ins. below the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table border="1"> <tr> <td colspan="2">T 2 S R 18 E</td> </tr> <tr> <td>S 11</td> <td>S 12</td> </tr> <tr> <td>S 14</td> <td>S 13</td> </tr> </table> <p>2010</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Terrain, flat. Soil, sandy loam. Timber, none; undergrowth, alfalfa, creosote and yucca.</p> <hr/> <p>From the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.</p> <p>West, bet. secs. 12 and 13.</p> <p>Over rolling and broken terrain.</p>	T 2 S R 18 E		S 11	S 12	S 14	S 13
T 2 S R 18 E							
S 11	S 12						
S 14	S 13						
13.20	Exit the flood plain of the San Carlos River, bears S. 10° E. and N. 15° W.						
30.25	Dirt road, 9 ft. wide, bears S. 65° E. and N. 60° W.						
30.35	Enter a circular cultivated field.						
40.00	<p>Point for the 1/4 sec. cor. of secs. 12 and 13, falls in circular cultivated field.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 30 ins. below the ground, with brass cap mkd.</p>						

Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	T 2 S R 18 E S 12 1/4 ——— S 13  2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
48.10	Leave a circular cultivated field.
53.40	Indian Route No. 170, asphalt surfaced, 27 ft. wide, bears N. 30° E. and S. 30° W.
58.60	Enter a circular cultivated field.
80.00	The cor. of secs. 11, 12, 13 and 14.
	Terrain, flat. Soil, sandy loam. Timber, none; undergrowth, alfalfa, creosote and yucca.
	N. 0°01' W., bet. secs. 11 and 12.
	Over rolling and broken terrain.
15.00	Leave a circular cultivated field.
40.00	Point for the 1/4 sec. cor. of secs. 11 and 12.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	T 2 S R 18 E 1/4 S 11   S 12  2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	Raise a mound of stone, 3 ft. base 2 ft. high, W. of cor.
	from which
	The closest headstone in a small cemetery, bears N. 44° E., 6.45 chs. dist., mkd. Chester Lee Mull 7-14-63 to 8-29-08.
80.00	Point for the cor. of secs. 1, 2, 11 and 12.

Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.

T 2 S	R 18 E
S 2	S 1
S 11	S 12

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Raise a mound of stone, 3 ft. base 3 ft. high, W. of cor.

Terrain, rolling to broken.

Soil, clay loam.

Timber, mesquite and palo negro; undergrowth, creosote.

From the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., hereinbefore described.

West, bet. secs. 1 and 12.

Over rolling and broken terrain.

8.30 Leave the flood plain of the San Carlos River, bears N. 30 E. and South.

38.00 Arizona Eastern railroad tracks, bears N. and S.

40.00 Point for the 1/4 sec. cor. of secs. 1 and 12.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, in an embedded collar of stone, with brass cap mkd.

T 2 S	R 18 E
S 1	
1/4	—
S 12	

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a steel "T-post" fence post near the cor.

The cor. is located 10 lks. N. of a dirt road, 15 ft. wide, bears S. 50° E. and N. 40° W.

**Survey of a Portion of the Subdivisional Lines,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

CHAINS	
42.60	Indian Route No. 170, asphalt surfaced, 27 ft. wide, bears N. 5° E. and S. 5° W.
44.65	Graded road along a El Paso gas pipeline, 20 ft. wide, bears S. 45° E. and N. 45° W.
80.00	The cor. of secs. 1, 2, 11 and 12.  Terrain, rolling to broken. Soil, clay loam. Timber, mesquite and palo negro; undergrowth, creosote.
	N. 0°01' W., bet. secs. 1 and 2.  Over rolling and broken terrain.
29.80	Graded road along a El Paso gas pipeline, 35 ft. wide, bears S. 80° E. and N. 85° W.
40.00	Point for the 1/4 sec. cor. of secs. 1 and 2.  Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	T 2 S R 18 E 1/4 S 2   S 1  2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.  Raise a mound of stone, 3 ft. base 2 1/2 ft. high, W. of cor.
79.72	The cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., monumented with an stainless steel post, 28 ins. long, 2 1/2 ins., firmly set, projecting 4 ins. above ground, with brass cap mkd. T1S R18E S35 S36 S2 S1 T2S 2010.  Terrain, rolling to broken. Soil, clay loam. Timber, mesquite and palo negro; undergrowth, creosote and cats claw.

**Electronic Control Corner No. 1,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona**

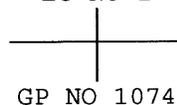
CHAINS

Point selected for an electronic control corner in Township 2 South, Range 18 East, is as follows:

Latitude: 33°14'49.518" N.                      Longitude: 110°30'21.702" W.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.

T 2 S R 18 E  
EC NO 1



2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a steel "T-post" fence post near the cor.

The cor. is located on top of ridge, 130 ft. wide, bears E. and S. 85° W., and 80 lks. W. of a buried fiber optic cable, bears N 40° E. and S. 40° W.

The cor. is also located 3.10 chs. W. of Indian Route 170, bears N. 40° E. and S. 40° W.

from which

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 26 ins. in the ground for a reference monument, bears N. 13°10' E., 1158.0 ft. dist. with brass cap mkd. RM T2S R18E 1158.0 FT TO EC 2010 and an arrow pointing to the cor.

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 26 ins. in the ground for a reference monument, bears N. 76°48' W., 66.0 ft. dist. with brass cap mkd. RM T2S R18E 66.0 FT TO EC 2010 and an arrow pointing to the cor.

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Electronic Control Corner No. 1,  
T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS

## GENERAL DESCRIPTION

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This township is located on the San Carlos Apache Indian Reservation, south of the community of San Carlos. The terrain is rolling and broken, with mesas and ravines throughout. Access is primarily cross country with only small sections reached from various unimproved roads.

The elevation varies from 2,400 ft. to 3,400 ft. on the un-surveyed portion in the Southwest corner of the Township. San Carlos river lays in the Northeast of corner of the Township. The Southeast corner of the Township just touches the San Carlos Reservoir.

The mean magnetic declination of 10 1/2° 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 survey.

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## CERTIFICATE OF SURVEY

I, Christopher P. McDonald, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 15th day of March, 2010, I have surveyed a portion of the east boundary and a portion of the subdivisional lines, Township 2 South, Range 18 East, of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

01/17/2012

(Date)

Christopher P. McDonald

(Cadastral Surveyor)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the survey of a portion of the east boundary and a portion of the subdivisional lines, Township 2 South, Range 18 East, of the Gila and Salt River Meridian, in the State of Arizona, executed by Christopher P. McDonald, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

2/6/2012

(Date)

Stephen K. Hansen

(Chief Cadastral Surveyor for Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 2 S., R. 18 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor for Arizona)~~