

ORIGINAL

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

FIELD NOTES

OF THE

SURVEY OF THE SECOND GUIDE MERIDIAN EAST (EAST BOUNDARY),

**TOWNSHIPS 30, 31 AND 32 NORTH,**

**RANGE 8 EAST,**

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Jones Curtiss, Cadastral Surveyor**

Under Special Instructions dated and approved February 10, 2009, which provided for the surveys included under Group No. 1059, and assignment instructions dated February 10, 2009.

**Survey commenced February 17, 2009**

**Survey completed April 7, 2009**

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GILA AND SALT RIVER MERIDIAN, ARIZONA

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**Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

## CHAINS

The following field notes describe the survey of the Second Guide Meridian East (East Boundary), Townships 30, 31 and 32 North, Range 8 East, Gila and Salt River Meridian, Arizona.

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

Philip Contzen surveyed the Second Guide Meridian East in 1905. Theodore O. Johnston and Philip L. Inch resurvey a portion of the Second Guide Meridian East (West Boundary) of Township 29 North, Ranges 9 East in 1916. Gordon R. Bubel remonumented the corner of townships 30 and 31 North, Ranges 8 and 9 East, as a survey tie while performing a survey of a portion of the west boundary, Township 30 North, Range 11 East, in 2003.

Leonard R. Sandoval surveyed the north boundary, Township 29 North, Range 9 East under Group Number 1057, Arizona, in 2008.

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 February 10, 2009, for Group 1059, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 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. The retracement data were thoroughly verified and only the new true line field notes are given herein.

Due to excess in measurement and alignment, and given that seventy-five percent of the original survey corners are lost; it was determined to execute a new survey to supersede the original survey. The survey of a portion of the Second Guide Meridian East (East Boundary), Townships 30, 31 and 32 North, Range 8 East, approved July 26, 1905, is cancelled by memo dated August 19, 2009. Identified original 1905 corners were amended and buried in place.

Geodetic control was derived from the Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) FST5 FLAGSTAFF 5 CORS ARP, AZFL NAU FLAGSTAFF CORS ARP, and AZPG CITY OF PAGE CORS ARP. The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the southeast corner of the Township 30 North, Range 8 East, is as follows:

Latitude: 35°55'50.00" N.                      Longitude: 111°28'46.88" W.

The mean magnetic declination is 11 1/2° E.

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Beginning at the cor. of Tps. 29 and 30 N., R. 8 E. only, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T30N T29N R8E R9E S36 S6 S1 T29N 2009.</p> <p>N. 0°01' E., on the E. bdy. of sec 36.</p> <p>Over rugged and broken land.</p>
4.69	<p>The closing cor. of Tps. 29 and 30 N., R. 9 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T30N T30N R8E R9E S36 S31 S6 T29N CC 2009.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 36 only.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in drill hole, on sandstone outcrop, with top mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T 30 N R 8 E    R 9 E 1/4      S 36     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>Cor. is located in a rocky draw, bears S. 10° E. and N. 10° W.</p>
80.00	<p>Point for the cor. of secs. 25 and 36 only.</p> <p>Deposit a magnet, in a white plastic case, 24 ins. below surface of the ground.</p> <p>from which</p> <p style="margin-left: 40px;">A brass tablet, 3 1/4 ins. diam., with 2 1/2 ins. stem, cemented in drill hole on sandstone boulder, 38 x 18 x 13 ft., for a reference monument, bears S. 50°00' W., 244.0 ft. dist., with top mkd. RM T30N R8E S36 244.0 FT TO COR. 2009 and an arrow pointing to the cor. Deposit a magnet in white plastic case, in drill hole, beneath the brass tablet.</p> <p style="margin-left: 40px;">A brass tablet, 3 1/4 ins. diam., with 2 1/2 ins. stem, cemented in drill hole on sandstone bedrock, for a reference monument, bears N. 40°00' W., 170.0 ft. dist., with top mkd. RM T30N R8E S25 170.0 FT TO COR. 2009 and an arrow pointing to the cor. Deposit a magnet in white plastic case, in drill hole, beneath the brass tablet.</p>

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Cor. is located in Hopi Trail Canyon Wash, 60 ft. wide, 2 ft. deep, drains S. 45° W.</p> <p>Land, rugged and broken. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>
	<p>N. 0°01' E., on the E. bdy. of sec. 25.</p> <p>Over rugged and broken land, ascend out of Hopi Trail Canyon.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 25 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 19 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 30 N R 8 E    R 9 E 1/4      S 25     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
80.00	<p>Point for the cor. of secs. 24 and 25 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 30 N    T 30 N R 8 E         R 9 E S 24      -----      S 30 S 25     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Land, rolling and broken. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>
40.00	<p>N. 0°01' E., on the E. bdy. of sec. 24</p> <p>Over rolling land.</p> <p>Point for the 1/4 sec. cor. of sec. 24 only.</p>

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T 30 N  
R 8 E    R 9 E  
1/4    |  
S 24    |

2009

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

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

From this cor. point, a basalt stone, 14 x 8 x 4 ins., bears S. 45°45' W., 24 lks. dist., loosely set on the E. edge of a mound of stone, 3 ft. base, 1 ft. high, mkd. 1/4 24 on W. face and S19 on E. face.

Add the marks AM to the basalt stone and bury in place. Destroy the mound of stone.

67.80 Trail road, bears S. 55° E. and N. 55° W.

80.00 Point for the cor. of secs. 13 and 24 only.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T 30 N    T 30 N  
R 8 E    |    R 9 E  
S 13    |  
-----|    S 19  
S 24    |

2009

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

From this cor. point, a first order, U.S. Coast and Geodetic Survey triangulation station "SHADOW 1951", bears N. 52°34' E., 88.605 chs. dist., monumented with a brass tablet, 3 1/2 ins. diam., cemented in place, set flush on lava stone, 12 x 10 x 5 ins., in collar of stone, with top mkd. SHADOW 1951 and a triangle.

Land, rolling and broken.

Soil, sandy clay with sandstone outcrops.

No timber; Undergrowth, scattered brush and native grasses.

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N. 0°01' E., on the E. bdy. of sec. 13.

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
40.00	<p>Over rolling and broken land.</p> <p>Point for the 1/4 sec. cor. of sec. 13 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 30 N R 8 E    R 9 E 1/4      S 13     </p> <p>2009</p> </div> <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 ft. base, 1 1/2 ft. high, W. of cor.</p>
80.00	<p>Point for the cor. of secs. 12 and 13 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 30 N    T 30 N R 8 E         R 9 E S 12      -----   S 18 S 13     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Land, rolling and broken. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/> <p>N. 0°01' E., on the E. bdy. of sec. 12.</p>
40.00	<p>Over rolling and broken land.</p> <p>Point for the 1/4 sec. cor. of sec. 12 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T 30 N R 8 E    R 9 E 1/4      S 12     </p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
80.00	<p>Point for the cor. of secs. 1 and 12 only.</p> <p>Set a brass tablet, 3 1/4 ins., 3 1/2 ins. stem, cemented in a drill hole on sandstone outcrop, with brass cap mkd.</p>
	<p style="text-align: center;">T 30 N    T 30 N R 8 E         R 9 E S 1         -----      S 7 S 12     </p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>Cor. is located 50 lks. S. of a trail road, bears N. 20° E. and S. 20° W.</p> <p>Land, rolling and broken. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/> <p>N. 0°01' E., on the E. bdy. of sec. 1.</p> <p>Over rolling and broken land.</p>
21.75	Trail road, bears S. 85° E. and N. 85° W.
23.30	Wash, 50 ft. wide, 10 ft. deep, drains S. 75° E.
40.00	<p>Point for the 1/4 sec. cor. of sec. 1 only.</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>
	<p style="text-align: center;">T 30 N R 8 E    R 9 E 1/4      S 1     </p> <p style="text-align: center;">2009</p>



**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS

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

From this cor. point, a point determined along the E. side of a mound of stone, 3 ft. base, bears S. 25°08' W., projecting 1 1/2 ft. above ground, as the original position of a limestone, 16 x 8 x 6 ins., lying loose nearby, mkd. 1/4 S36 on side, and X on top.

Mark AM on the limestone and bury in orig. position, and destroy the mound of stone.

66.50 Trail road, bears S. 75° E. and N. 75° W.

80.00 Point for the cor. of secs. 25 and 36 only.

Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.

T 31 N		T 31 N
R 8 E		R 9 E
S 25		S 31
S 36		

2009

Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.

From this cor. point, a limestone, 18 x 9 x 5 ins., bears S. 26°47' W., 89.5 lks. dist., firmly set in collar of stone, projecting 12 ins. above ground, mkd. with 5 grooves on N. face, T31N R9E on E. face, 1 groove on S. face, and R8E on W. face, and an X mark with 5 grooves on N. side and 1 groove on S. side beneath the marked limestone on sandstone bedrock, with a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

from which the orig. bearing tree

A dead dry forked juniper, 52 ins. diam. at base, bears N. 85° E., 1.96 chs. dist., mkd. T30N R9E S30 BT on open blaze. (Record: 185 lks. dist., mkd. T31N). Deface the marks.

Mark AM on the limestone and bury in the collar of stone. Deface the marks beneath the limestone, and destroy the mound of stone, W. of the orig. cor.

Land, rolling and broken.

Soil, sandy clay with sandstone outcrops.

No timber; Undergrowth, scattered brush and native grasses.

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**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
40.00	<p>N. 0°01' E., on the E. bdy. of sec. 25.</p> <p>Over rolling and broken land.</p> <p>Point for the 1/4 sec. cor. of sec. 25 only.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p> <div style="text-align: center;"> <p>T 31 N R 8 E    R 9 E 1/4      S 25     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>From this cor. point, a limestone, 17 x 9 x 4 ins., bears S. 13°44' W., 1.805 chs. dist., loosely set on surface of sandstone bedrock, mkd. 1/4 S25 on W. face, and S30 on E. face, and an X mark beneath the marked limestone on sandstone bedrock, with S30 on E. side and 1/4 S25 on W. side, in a scattered mound of stone.</p> <p>Mark AM on the limestone and deposit in the scattered mound of stone. Deface the marks on sandstone bedrock.</p> <p>The cor. is located 34 lks. S. of a rim of sandstone cliff, 35 ft. high, bears N. 80° E. and S. 80° W.</p>
80.00	<p>Point for the cor. of secs. 24 and 25 only.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p> <div style="text-align: center;"> <p>T 31 N    T 31 N R 8 E         R 9 E S 24      -----      S 30 S 25     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>From this cor. point, a limestone, 18 x 8 x 7 ins., bears S. 9°09' W., 1.835 chs. dist., firmly set, projecting 14 ins. above ground, mkd. with 2 grooves on S. side, 4 grooves on N. side, R9E on E. face and R8E on W. face and an X mark beneath the marked limestone on sandstone bedrock, and a scattered mound of stone, W. of cor.</p>

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Mark AM on the limestone and bury in place. Deface the X mark on sandstone bedrock and destroy the scattered mound of stone.</p> <p>Land, rolling and broken. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>
	<p>N. 0°01' E., on the E. bdy. of sec. 24.</p> <p>Over rolling and broken land.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 24 only.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p> <div style="text-align: center;"> <p>T 31 N R 8 E    R 9 E 1/4      S 24     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>From this cor. point, a limestone, 17 x 7 x 6 ins., bears S. 7°33' W., 1.805 chs. dist., loosely set on E. side of a mound of stone, 2 ft. base, 1 1/2 ft. high, mkd. 1/4 S24 on W. face, and S19 on E. face.</p> <p>Mark AM on the limestone and bury in place. Destroy the mound of stone.</p>
80.00	<p>Point for the cor. of secs. 13 and 24 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 31 N    T 31 N R 8 E         R 9 E S 13      -----      S 19 S 24     </p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>From this cor. point, a limestone, 15 x 6 x 4 ins., lying loose nearby, mkd. with 3 grooves on one side, 3 grooves on the opposite side and T31N R9E on the wide face, unable to determine the orig. position.</p> <p>Mark AM on the limestone and bury in place.</p> <p>Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/> <p>N. 0°01' E., on the E. bdy. of sec. 13.</p> <p>Over rolling land.</p> <p>19.90 Trail road, bears N. 30° E. and S. 30° W.</p> <p>28.95 Trail road, bears S. 65° E. and N. 65° W.</p> <p>40.00 Point for the 1/4 sec. cor. of sec. 13 only.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto; border-collapse: collapse;"> <tr><td>T 31 N</td><td></td><td></td></tr> <tr><td>R 8 E</td><td>R 9 E</td><td></td></tr> <tr><td>1/4</td><td> </td><td></td></tr> <tr><td>S 13</td><td> </td><td></td></tr> </table> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in drill hole, at the base of the brass tablet.</p> <p>77.85 Navajo Route 6135, a graded road, 20 ft. wide, bears N. 60° E. and S. 60° W.</p> <p>80.00 Point for the cor. of secs. 12 and 13 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto; border-collapse: collapse;"> <tr><td>T 31 N</td><td>T 31 N</td><td></td></tr> <tr><td>R 8 E</td><td>R 9 E</td><td></td></tr> <tr><td>S 12</td><td> </td><td></td></tr> <tr><td colspan="2">—</td><td>S 18</td></tr> <tr><td>S 13</td><td> </td><td></td></tr> </table> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>	T 31 N			R 8 E	R 9 E		1/4			S 13			T 31 N	T 31 N		R 8 E	R 9 E		S 12			—		S 18	S 13		
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Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS																			
	<p>Land, rolling. Soil, sandy clay. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>																		
	<p>N. 0°01' E., on the E. bdy. of sec. 12.</p>																		
	<p>Over rolling land.</p>																		
6.60	<p>Trail road, bears N. 25° E. and S. 25° W.</p>																		
40.00	<p>Point for the 1/4 sec. cor. of sec. 12 only.</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>																		
	<table style="margin-left: auto; margin-right: auto;"> <tr><td colspan="2" style="text-align: center;">T 31 N</td></tr> <tr><td style="text-align: center;">R 8 E</td><td style="text-align: center;">R 9 E</td></tr> <tr><td style="text-align: center;">1/4</td><td style="text-align: center;"> </td></tr> <tr><td style="text-align: center;">S 12</td><td style="text-align: center;"> </td></tr> <tr><td colspan="2" style="text-align: center;">2009</td></tr> </table>	T 31 N		R 8 E	R 9 E	1/4		S 12		2009									
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T 31 N		T 31 N																	
R 8 E		R 9 E																	
S 1																			
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	<p>N. 0°01' E., on the E. bdy. of sec. 1.</p>																		
	<p>Over rolling land.</p>																		
4.40	<p>Trail road, bears S. 40° E. and N. 40° W.</p>																		
40.00	<p>Point for the 1/4 sec. cor. of sec. 1 only.</p>																		

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

	T 31 N	
R 8 E		R 9 E
1/4		
S 1		

2009

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

From this cor. point, a limestone, 7 x 5 ins., bears S. 8°08' W., 1.59 chs. dist., firmly set, projecting 6 ins. above ground, in collar of stone, mkd. 1/4 1 on W. face and S6 on E. face.

Mark AM on the limestone, 15 ins. long, and bury in place. Destroy the collar of stone.

50.60 Navajo Route 6134, a graded road, 20 ft. wide, bears S. 85° E. and N. 85° W.

80.00 Point for the cor. of Tps. 31 and 32 N., R. 8 E. only.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T 32 N		T 32 N
R 8 E		R 9 E
S 36		S 31
<hr/>		
S 1		
T 31 N		

2009

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

From this cor. point, a limestone, 15 x 5 x 5 ins., bears S. 9°32' E., 1.86 chs. dist., loosely set in embedded mound of stone, 2 ft. base, flush with surface of ground, mkd. with 6 grooves on the SW and NE faces, T32N R9E on the E. face, and T32N R8E on the W. face.

Mark AM on the limestone and bury in place. Destroy the mound of stone.

Land, rolling and broken.

Soil, sandy clay with sandstone outcrops.

No timber; Undergrowth, scattered brush and native grasses.

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>N. 0°01' E., on the E. bdy. of sec. 36.</p> <p>Over rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 36 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p align="center">           T 32 N            R 8 E    R 9 E            1/4                 S 36                   2009         </p>
50.45	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Trail road, bears N. 60° E. and S. 60° W.</p>
80.00	<p>Point for the cor. of secs. 25 and 36 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p align="center">           T 32 N    T 32 N            R 8 E         R 9 E            S 25                 ————      S 30            S 36                   2009         </p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>
	<p>N. 0°01' E., on the E. bdy. of sec. 25.</p> <p>Over rolling land.</p>
20.65	<p>Trail road, bears N. 60° E. and S. 60° W.</p>
27.90	<p>Trail road, bears S. 75° E. and S. 75° W.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 25 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p align="center">T 32 N R 8 E   R 9 E 1/4   S 25  </p> <p align="center">2009</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 limestone, 14 x 6 x 5 ins., lying loose nearby, mkd. 1/4 S24 on one side and S30 on opposite side, unable to determine the orig. position.</p> <p>Mark AM on the limestone and bury in place.</p>
49.45	Trail road, bears S. 15° E. and N. 15° W.
80.00	Point for the cor. of secs. 24 and 25 only.
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p align="center">T 32 N   T 32 N R 8 E   R 9 E S 24   -----   S 19 S 25  </p> <p align="center">2009</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 broken limestone, 14 x 8 x 5 ins., remaining size, lying loose nearby, mkd. 4 grooves on one side, unable to determine the orig. position.</p> <p>Mark AM on the limestone and bury in place.</p> <p>Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/>
	<p>N. 0°01' E., on the E. bdy. of sec. 24.</p> <p>Over rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 24 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T 32 N R 8 E    R 9 E 1/4      S 24     </p> <p style="text-align: center;">2009</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 limestone, 17 x 6 x 6 ins., bears S. 2°02' W., 1.32 chs. dist., loosely set, mkd. 1/4 S24 on W. face and S19 on E. face.</p> <p>Mark AM on the limestone and bury in place.</p>
42.95	Trail road, bears N. 85° E. and S. 85° W.
80.00	Point for the cor. of secs. 13 and 24 only.
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 32 N    T 32 N R 8 E         R 9 E S 13      -----      S 18 S 24     </p> <p style="text-align: center;">2009</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 limestone, 16 x 7 x 5 ins., bears S. 0°16' W., 1.295 chs. dist., loosely set, mkd. T32N R9E on E. face and R8 on W. face.</p> <p>Mark AM on limestone and bury in place.</p> <p>Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.</p> <hr/> <p>N. 0°01' E., on the E. bdy. of sec. 13.</p> <p>Over rolling land.</p>
10.45	Trail road, bears S. 80° E. and N. 80° W.
40.00	Point for the 1/4 sec. cor. of sec. 13 only.

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS

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

T 32 N
R 8 E    R 9 E
1/4
S 13

2009

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

From this cor. point, a limestone, 12 x 6 x 5 ins., bears  
S. 0°22' E., 1.28 chs. dist., loosely set, projecting 8 ins.  
above ground, mkd. 1/4 13 on W. face, and S18 on E. face.

Mark AM on the limestone and bury in place.

80.00

Point for the cor. of secs. 12 and 13 only.

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

T 32 N	T 32 N
R 8 E	R 9 E
S 12	
—	S 7
S 13	

2009

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

Cor. is located 96 lks. S. of a trail road, bears N. 35° E. and  
S. 35° W.

From this cor. point, a limestone, 6 x 6 ins., bears  
S. 0°21' E., 1.25 chs. dist., firmly set, projecting 6 ins.  
above ground, with a mound of stone, 2 ft. base, 1 1/2 ft. high,  
W. of cor., mkd. with 2 grooves on N. face and 4 grooves on S.  
face.

Mark AM on limestone, 18 ins. long, and bury in place. Destroy  
the mound of stone.

Land, rolling.

Soil, sandy clay with sandstone outcrops.

No timber; Undergrowth, scattered brush and native grasses.

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N. 0°01' E., on the E. bdy. of sec. 12.

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	Over rolling land.
40.00	<p>Point for the 1/4 sec. cor. of sec. 12 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">           T 32 N            R 8 E    R 9 E            1/4                 S 12                  2009         </p>
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	From this cor. point, a limestone, 7 x 5 ins., bears S. 0°39' E., 1.195 chs. dist., firmly set, projecting 9 ins. above ground, mkd. 1/4 S12 on W. face, S7 on E. face and a cross on top, with a sandstone, 20 x 10 x 7 ins., laying loose nearby, mkd. 7 on a wide face.
	Mark AM on both the limestone, 18 ins. long, and the sandstone and bury them in place.
54.10	Trail road, bears S. 70° E. and N. 70° W.
80.00	<p>Point for the cor. of secs. 1 and 12 only.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">           T 32 N    T 32 N            R 8 E         R 9 E            S 1                    ————      S 6            S 12                   2009         </p>
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	From this cor. point, a limestone, 18 x 6 x 6 ins., bears S. 1°09' E., 1.135 chs. dist., loosely set, mkd. with 6 grooves S. face and 1 groove on N. face.
	Mark AM on the limestone and bury in place.
	Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.

**Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	N. 0°01' E., on the E. bdy. of sec. 1.
	Over rolling land.
3.40	Trail road, bears S. 65° E. and N. 65° W.
40.00	Point for the 1/4 sec. cor. of sec. 1 only.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p align="center">T 32 N R 8 E    R 9 E 1/4   S 1  </p>
	2009
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	From this cor. point, a limestone, 13 x 6 x 5 ins., bears S. 0°32' W., 1.11 chs. dist., loosely set, mkd. 1/4 1 on one side and 6 on opposite side, and a sandstone, 10 x 5 x 3 ins., laying loose nearby, with broken top, mkd. 1/4 on one side and a cross on top.
	Mark AM on both the limestone and the sandstone and bury them in place.
55.55	Trail road, bears N. 60° E. and S. 60° W.
71.75	Trail road, bears S. 45° E. and N. 45° W.
73.45	Trail road, bears S. 75° E. and N. 75° W.
78.98	The closing cor. of T. 32 N., Rs. 8 and 9 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. T32 1/2N R8E S36 S1 S6 R8E R9E T32N CC 2009.
	Land, rolling. Soil, sandy clay with sandstone outcrops. No timber; Undergrowth, scattered brush and native grasses.

Survey of the Second Guide Meridian East (East Boundary),  
Tps. 30, 31 and 32 N., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS

## GENERAL DESCRIPTION

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The area surveyed is located approximately ten miles north northwest of Cameron, Arizona, within the Navajo Indian Reservation. The terrain is mostly rolling and broken land. The drainage is easterly toward Moenkopi and Hamblin Washes with a few intertwined sandy washes.

The elevation varies from 4500 to 5400 feet above sea level. The soil is mostly sandy and sandy clay with areas of sandstone outcrops, ledges and cliffs. There is no timber, only scattered native brushes and grasses.

Principal access to the area is by Navajo Route 6134 and 6135 running west from U. S. Highway 89. There are numerous trail roads for access to permanent residents scattered throughout the three townships. There are several livestock grazing areas. There is no mining activity in the townships.

The mean magnetic declination of  $11\ 1/2^\circ$  E. was derived from the computer program GEOMAGIX, utilizing the World Magnetic Model for Epoch 2005 for the dates of survey.

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CERTIFICATE OF SURVEY

I, Jones Curtiss, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 10th day of February, 2009, I have surveyed the Second Guide Meridian East (East Boundary), Townships 30, 31 and 32 North, Range 8 East, 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 Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

December 07, 2009  
(Date)

Jones Curtiss  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the survey of the Second Guide Meridian East (East Boundary), Townships 30, 31 and 32 North, Range 8 East, Gila and Salt River Meridian, in the State of Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

1/26/2010  
(Date)

Stephen H. 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 Townships 30, 31 and 32 North, Range 8 East, 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)~~