

# ORIGINAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES  
OF THE

SURVEY

OF

THE WEST BOUNDARY,

TOWNSHIP 40 NORTH, RANGE 24 EAST,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Leonard R. Sandoval, Cadastral Surveyor

Under Special Instructions dated and approved September 9, 1999, which provided for the surveys included under Group Number 844 and assignment instructions dated September 9, 1999.

Survey Commenced January 9, 2001

Survey Completed February 21, 2001

INDEX DIAGRAM

TOWNSHIP 40 NORTH, RANGE 24 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

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## T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the survey of the west boundary, Township 40 North, Range 24 East, Gila and Salt River Meridian, Arizona.

The south boundary, T. 40 N., R. 27 E., was surveyed by Leonard R. Sandoval in 2000, concurrently under this same group. The Tenth Standard Parallel North, (south boundary), T. 41 N., R. 24 E., was surveyed by Leonard R. Sandoval in 2000-01, also concurrently under the same group.

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 September 9, 1999, for Group No. 844, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic and static global positioning system observations using Trimble 4400 and 4700 model receivers.

Geodetic control was derived from first order or better U. S. Coast and Geodetic Survey triangulation stations "BEAUTIFUL 1951" and "COMB 1951", as published by the National Geodetic Survey, NAD83(1992). The geographic position of the southwest corner of the township is as follows:

Latitude: 36°49'26.91" N.                      Longitude: 109°49'21.69" W.

The mean magnetic declination is 12° E.

Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS					
	<p>Beginning at the point for the cor. of T. 40 N., R. 24 E. only, established at 17 miles and 75.14 chs. West of the cor. of Tps. 40 N., Rs. 26 and 27 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap, set and mkd., as described in the field notes of the survey of the south boundary, T. 40 N., R. 27 E., executed concurrently under this same group.</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;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="padding: 2px;">T40N</td></tr> <tr><td style="padding: 2px;">R24E</td></tr> <tr><td style="padding: 2px;">S31</td></tr> </table> <p>2001</p> </div>	T40N	R24E	S31	
T40N					
R24E					
S31					
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>				
	<p>North, on the W. bdy. of sec. 31.</p>				
	<p>Over rolling and broken land.</p>				
40.00	<p>Point for the 1/4 sec. cor. of sec. 31 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;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="padding: 2px;">T40N</td></tr> <tr><td style="padding: 2px;">R24E</td></tr> <tr><td style="padding: 2px;">1/4 S31</td></tr> </table> <p>2001</p> </div>	T40N	R24E	1/4 S31	
T40N					
R24E					
1/4 S31					
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>				
80.00	<p>Point for the cor. of secs. 30 and 31 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;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="padding: 2px;">T40N</td></tr> <tr><td style="padding: 2px;">S30</td></tr> <tr><td style="padding: 2px;">S31</td></tr> <tr><td style="padding: 2px;">R24E</td></tr> </table> <p>2001</p> </div>	T40N	S30	S31	R24E
T40N					
S30					
S31					
R24E					

Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS													
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. No timber; scattered brush and native grasses.</p>												
40.00	<p>North, on the W. bdy. of sec. 30.</p> <p>Over rolling and broken land.</p> <p>Point for the 1/4 sec. cor. of sec. 30 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;"> <table border="0"> <tr><td> </td><td>T40N</td></tr> <tr><td> </td><td>R24E</td></tr> <tr><td> </td><td>1/4 S30</td></tr> <tr><td> </td><td>2001</td></tr> </table> </div>		T40N		R24E		1/4 S30		2001				
	T40N												
	R24E												
	1/4 S30												
	2001												
80.00	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Cor. is located 41 lks. S. of a trail road, bears ESE and WNW.</p> <p>Point for the cor. of secs. 19 and 30 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> <div style="text-align: center;"> <table border="0"> <tr><td> </td><td>T40N</td></tr> <tr><td> </td><td>S19</td></tr> <tr><td> </td><td>-----</td></tr> <tr><td> </td><td>S30</td></tr> <tr><td> </td><td>R24E</td></tr> <tr><td> </td><td>2001</td></tr> </table> </div> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. No timber; scattered brush and native grasses.</p> <p>North, on the W. bdy. of sec. 19.</p>		T40N		S19		-----		S30		R24E		2001
	T40N												
	S19												
	-----												
	S30												
	R24E												
	2001												

Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS						
	Over rolling and broken land.					
29.20	High voltage transmission line, bears NE and SW.					
40.00	Point for the 1/4 sec. cor. of sec. 19 only.					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.					
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">T40N</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">R24E</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1/4 S19</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2001</td></tr> </table>	T40N	R24E	1/4 S19	2001	
T40N						
R24E						
1/4 S19						
2001						
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.					
56.80	Laguna Creek, 40 ft. wide, 12 ft. deep, drains NE.					
63.88	S. right-of-way fence of U. S. Highway 160, barbed wire, 5 strands, parallels highway.					
66.91	U. S. Highway 160, asphalt pavement, 37 ft. wide, bears NNE and SSW.					
71.75	Apache County Road C483, asphalt pavement, 16 ft. wide, bears E. and W.; transitions to a graded road W. of highway right-of-way fence.					
73.07	N. right-of-way fence of U. S. Highway 160, barbed wire, 5 strands, parallels highway.					
77.10	Underground gas pipeline, bears NNE and SSW.					
80.00	Point for the cor. of secs. 18 and 19 only.					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in sandstone bedrock, with brass cap mkd.					
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">T40N</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">S18</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">S19</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">R24E</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2001</td></tr> </table>	T40N	S18	S19	R24E	2001
T40N						
S18						
S19						
R24E						
2001						
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.					

Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS						
	<p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. No timber; scattered brush and native grasses.</p>					
	<p>North, on the W. bdy. of sec. 18.</p>					
	<p>Over rolling and broken land.</p>					
40.00	<p>Point for the 1/4 sec. cor. of sec. 18 only.</p>					
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in sandstone bedrock, with brass cap mkd.</p>					
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">T40N</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">R24E</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1/4 S18</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2001</td></tr> </table>	T40N	R24E	1/4 S18	2001	
T40N						
R24E						
1/4 S18						
2001						
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>					
80.00	<p>Point for the cor. of secs. 7 and 18 only.</p>					
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in sandstone bedrock, with brass cap mkd.</p>					
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">T40N</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">S 7</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">S18</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">R24E</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2001</td></tr> </table>	T40N	S 7	S18	R24E	2001
T40N						
S 7						
S18						
R24E						
2001						
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>					
	<p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. No timber; scattered brush and native grasses.</p>					
	<p>North, on the W. bdy. of sec. 7.</p>					
	<p>Over rolling land.</p>					
40.00	<p>Point for the 1/4 sec. cor. of sec. 7 only.</p>					

Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a brass tablet, 3 1/4 ins. diam., 2 1/2 ins. stem, cemented in place, in a drill hole, in sandstone bedrock, with top mkd.</p>
	<p style="text-align: center;">           T40N            R24E            1/4 S 7            2001         </p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case in the drill hole beneath the brass tablet.</p>
77.80	<p>Graded road, 20 ft. wide, bears ESE and WSW in curve.</p>
80.00	<p>Point for the cor. of secs. 6 and 7 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;">           T40N            S 6            S 7            R24E            2001         </p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>
	<p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. No timber; scattered brush and native grasses.</p>
	<p>North, on the W. bdy. of sec. 6.</p>
	<p>Over rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of sec. 6 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;">           T40N            R24E            1/4 S 6            2001         </p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>



Survey of the West Boundary,  
T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS					
66.89	<p>Point for the closing cor. of Tps. 40 N., Rs. 23 and 24 E., at intersection with Tenth Standard Parallel North, on the N. bdy. of the Tp.</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>T41N R24E S31</p> <hr style="width: 10%; margin: auto;"/> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 2</td> <td style="padding: 0 5px;">S 6</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">R23E</td> <td style="padding: 0 5px;">R24E</td> </tr> </table> <p>T40N CC 2001</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>From this cor. point, the stan. 1/4 sec. cor. of sec. 31, T. 41 N., R. 24 E., bears East, 31.55 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the survey of the Tenth Standard Parallel North, (south boundary), T. 41 N., R. 24 E., executed concurrently under this same group.</p> <p>From this same cor. point, the stan. cor. of T. 41 N., R. 24 E. only, bears West, 8.45 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the survey of the Tenth Standard North, (south boundary), T. 41 N., R. 24 E., executed concurrently under this same group.</p> <p>Land, rolling and broken. Soil, sandy and rocky clay. No timber; scattered brush and native grasses.</p>	S 2	S 6	R23E	R24E
S 2	S 6				
R23E	R24E				

T. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	GENERAL DESCRIPTION
	<p>The area surveyed is approximately 2 miles east of Dennehotso, Arizona, on the Navajo Indian Reservation. The terrain consists mostly of rolling rocky hills and ridges. The drainage is northeast, with Laguna Creek being the main drainage.</p> <p>The elevation varies from 5000 to 5400 feet above sea level. The soil is mostly sandy and rocky clay with sandstone bedrock and outcrops. There is no timber with scattered sagebrush, rabbitbrush, greasewood, and native grasses.</p> <p>Principal access to the west boundary of the township is by U. S. Highway 160 which crosses the west boundary of section 19. A graded road, which branches off of U. S. Highway 160, crosses the west boundary of section 7. Much of the area is used for grazing livestock. There is no mining activity in the township.</p> <p>The mean magnetic declination is 12° E, as derived from the computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 2000 for the dates of survey.</p>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
William F. Olver	Cadastral Surveyor
Daniel Bryan	Engineering Technician
Wilfred Chee	Engineering Technician
Edward Clarke	Engineering Technician
Reuben Mason	Engineering Technician
Barney Woodie	Engineering Technician

CERTIFICATE OF SURVEY

I, Leonard R. Sandoval, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 9th day of September, 1999, I have surveyed the west boundary, Township 40 North, Range 24 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; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

3-26-03  
(Date)

Leonard R. Sandoval  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Arizona State Office  
Phoenix, Arizona

The foregoing field notes of the survey of the west boundary, Township 40 North, Range 24 East, Gila and Salt River Meridian, Arizona, executed by Leonard R. Sandoval, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/19/03  
(Date)

Stephen K. Hansen  
**Acting** (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. 40 N., R. 24 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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