

ORIGINAL

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

FIELD NOTES

OF

THE

DEPENDENT RESURVEY

OF

THE

WEST AND NORTH BOUNDARIES,

TOWNSHIP 22 NORTH, RANGE 28 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 May 1, 2002, and the Supplemental Special Instructions dated and approved September 23, 2002, which provided for the surveys included under Group No. 886, and assignment instructions dated May 1, 2002.

**Survey commenced December 4, 2002
Survey completed February 5, 2003**

INDEX DIAGRAM

TOWNSHIP 22 NORTH RANGE 28 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA

8	13 6	12 5	11 4	11 3	10 2	9 1
7	7	8	9	10	11	12
6	18	17	16	15	14	13
5	19	20	21	22	23	24
5	30	29	28	27	26	25
4	31	32	33	34	35	36

T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the west and north boundaries of Township 22 North, Range 28 East, Gila and Salt River Meridian, Arizona.

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

W. R. Fitzgerald surveyed the Seventh Auxiliary Guide Meridian East (east boundary) and the south boundary in 1882. Frank Follman surveyed the west and north boundaries in 1882. Sidney E. Blout retraced a portion of the north boundary in 1920. William P. Carpender, Stephen J. Malloy and Kenneth W. Bays dependently resurveyed the Seventh Auxiliary Guide Meridian East (east boundary) in 1987-93. Joe R. Salazar dependently resurveyed a portion of the Seventh Auxiliary Guide Meridian East (east boundary) in 1993. William P. Carpender and Stephen J. Malloy dependently resurveyed the north boundary, Township 21 North, Range 28 East, in 1987-94.

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 May 1, 2002, and the Supplemental Special Instruction dated September 23, 2002, for Group No. 886, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation Model 5700 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 Global Positioning System (GPS) static observations post processed by National Geodetic Surveys Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) Ferno Mesa, Flagstaff and Pie Town VLBA. The NAD83(CORS96)(EPOCH:2002) geographic position of the southwest corner of the township is as follows:

Latitude: 35°15'24.51" N. Longitude: 109°25'16.04" W.

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

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the survey executed by Frank Follman, in 1882</p> <hr/>
	<p>NOTE: Due to the lack of recovered evidence during this dependent resurvey, and because other concurrent dependent resurveys in the area did not recover original evidence from the 1882 surveys, this boundary is extended by using the 1882 record distance.</p>
	<p>Beginning at the cor. of Tp. 21 and 22 N., Rs. 27 and 28 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. T22N R27E R28E S36 S31 S1 S6 T21N 1994 1947.</p>
	<p>Add the marks 2002 to the brass cap.</p>
	<p>N. 0°09' E., bet. secs. 31 and 36.</p>
	<p>Over rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 31 and 36, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E 1/4 S 36 S 31</p> </div> <p style="text-align: center;">2003</p>
80.00	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Point for the cor. of secs. 25, 30, 31 and 36, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E S 25 S 30 S 36 S 31</p> </div> <p style="text-align: center;">2003</p>

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 0°09' E., bet. secs. 25 and 30.</p> <p>Over rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 25 and 30, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E 1/4 S 25 S 30</p> <p style="text-align: center;">2003</p>
	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located 70 lks. N. of a trail road, bears ENE and WSW and 80 lks. S. of a trail road, bears ENE and WSW.</p>
48.80	<p>Graded road, 12 ft. wide, bears SE and NW.</p>
80.00	<p>Point for the cor. of secs. 19, 24, 25 and 30, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E S 24 S 19 S 25 S 30</p> <p style="text-align: center;">2003</p>
	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 0°09' E., bet. secs. 19 and 24.</p> <p>Over gently rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 19 and 24, at record dist.; there is no remaining evidence of original cor.</p>

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<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 22 N R 27 E R 28 E 1/4 S 24 S 19</p> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
57.50	Navajo Route 9011, a graded road, 18 ft. wide, bears E. and W.
76.90	Trail road, bears NE and SW.
80.00	<p>Point for the cor. of secs. 13, 18, 19 and 24, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E S 13 S 18 ----- S 24 S 19</p> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 0°09' E., bet. secs. 13 and 18.</p> <p>Over gently rolling land.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 13 and 18, at record dist.; there is no remaining evidence of the original cor.</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 22 N R 27 E R 28 E 1/4 S 13 S 18</p> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS											
53.10	Apache County Road C274, a graded road, 30 ft. wide, bears ESE and WNW.										
80.00	<p>Point for the cor. of secs. 7, 12, 13 and 18, at record dist.; there is no remaining evidence of the original cor.</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 style="margin: auto;"> <tr><td colspan="2">T 22 N</td></tr> <tr><td>R 27 E</td><td>R 28 E</td></tr> <tr><td>S 12</td><td>S 7</td></tr> <tr><td colspan="2"><hr style="width: 50%; margin: 0 auto;"/></td></tr> <tr><td>S 13</td><td>S 18</td></tr> </table> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 0°09' E., bet. secs. 7 and 12.</p> <p>Over gently rolling land.</p>	T 22 N		R 27 E	R 28 E	S 12	S 7	<hr style="width: 50%; margin: 0 auto;"/>		S 13	S 18
T 22 N											
R 27 E	R 28 E										
S 12	S 7										
<hr style="width: 50%; margin: 0 auto;"/>											
S 13	S 18										
40.00	<p>Point for the 1/4 sec. cor. of secs. 7 and 12, at record dist.; there is no remaining evidence of the original cor.</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 style="margin: auto;"> <tr><td colspan="2">T 22 N</td></tr> <tr><td>R 27 E</td><td>R 28 E</td></tr> <tr><td colspan="2">1/4</td></tr> <tr><td>S 12</td><td>S 7</td></tr> </table> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located 60 lks. N. of a trail road, bears ESE and WNW.</p>	T 22 N		R 27 E	R 28 E	1/4		S 12	S 7		
T 22 N											
R 27 E	R 28 E										
1/4											
S 12	S 7										
80.00	<p>Point for the cor. of secs. 1, 6, 7 and 12, at record dist.; there is no remaining evidence of the original cor.</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>										

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS											
	<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">T 22 N</td></tr> <tr><td style="text-align: center;">R 27 E</td><td style="text-align: center;">R 28 E</td></tr> <tr><td style="text-align: center;">S 1</td><td style="text-align: center;">S 6</td></tr> <tr style="border-top: 1px solid black;"><td style="text-align: center;">S 12</td><td style="text-align: center;">S 7</td></tr> </table> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr style="width: 80%; margin: 10px auto;"/> <p>N. 0°09' E., bet. secs. 1 and 6.</p> <p>Over gently rolling land.</p>	T 22 N		R 27 E	R 28 E	S 1	S 6	S 12	S 7		
T 22 N											
R 27 E	R 28 E										
S 1	S 6										
S 12	S 7										
23.90	Apache County Road C322, a graded road, 25 ft. wide, bears ENE and WSW.										
40.00	<p>Point for the 1/4 sec. cor. of secs. 1 and 6, at record dist.; there is no remaining evidence of the original cor.</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>										
	<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">T 22 N</td></tr> <tr><td style="text-align: center;">R 27 E</td><td style="text-align: center;">R 28 E</td></tr> <tr><td colspan="2" style="text-align: center;">1/4</td></tr> <tr><td style="text-align: center;">S 1</td><td style="text-align: center;">S 6</td></tr> </table> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located 20 lks. N. of a trail road, bears NE and SW.</p>	T 22 N		R 27 E	R 28 E	1/4		S 1	S 6		
T 22 N											
R 27 E	R 28 E										
1/4											
S 1	S 6										
80.00	<p>Point for the cor. of secs. 1, 6, 31 and 36, at record dist.; there is no remaining evidence of the original cor.</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>										
	<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">T 23 N</td></tr> <tr><td style="text-align: center;">R 27 E</td><td style="text-align: center;">R 28 E</td></tr> <tr><td style="text-align: center;">S 36</td><td style="text-align: center;">S 31</td></tr> <tr style="border-top: 1px solid black;"><td style="text-align: center;">S 1</td><td style="text-align: center;">S 6</td></tr> <tr><td colspan="2" style="text-align: center;">T 22 N</td></tr> </table> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>	T 23 N		R 27 E	R 28 E	S 36	S 31	S 1	S 6	T 22 N	
T 23 N											
R 27 E	R 28 E										
S 36	S 31										
S 1	S 6										
T 22 N											

**Dependent Resurvey of the West Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS

From this cor. point, the cor. of Tps. 22 and 23 N., Rs. 26 and 27 E., bears N. 89°07' W., 476.59 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 dependent resurvey of the west boundary, T. 22 N., R. 27 E., executed concurrently under this same group.

The control line was fully retraced and no evidence of the intervening cors. was found.

**Dependent Resurvey of the North Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Frank Follman, in 1882

NOTE: During the 1920 Sidney Blout retracement of the line bet. secs. 1 and 36 and 2 and 35, the only evidence recovered was at the cor. of secs. 2, 3, 34 and 35. Its' authenticity of being the 1882 monument was questioned at the time, but was accepted as a monument set at the original cor. point. There is no remaining evidence of this monument and none of the missing cors. on the retraced line were reestablished, along with ownership being federal on either side of the lines, the 1920 retracement record is therefore of no consideration.

From the cor. of Tp. 22 and 23 N., Rs. 28 and 29 E., monumented with an iron post, 3 ins. diam., with brass cap, set, mkd. and witnessed as described in the field notes of dependent resurvey of the west boundary of T. 22 N., R. 27 E., executed concurrently under this same group.

N. 88°02' W., bet. secs. 1 and 36.

Over rolling land.

39.90

Point for the 1/4 sec. cor. of secs. 1 and 36, at proportionate dist.; there is no remaining evidence of the original cor.

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

T 23 N R 28 E
S 36
1/4 ———
S 1
T 22 N

2003

**Dependent Resurvey of the North Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>										
79.80	<p>Point for the cor. of secs. 1, 2, 35 and 36, at proportionate dist.; there is no remaining evidence of the original cor.</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 style="padding: 0 5px;">T 23 N</td> <td style="padding: 0 5px;">R 28 E</td> </tr> <tr> <td style="padding: 0 5px;">S 35</td> <td style="padding: 0 5px;">S 36</td> </tr> <tr> <td style="padding: 0 5px;">S 2</td> <td style="padding: 0 5px;">S 1</td> </tr> <tr> <td colspan="2" style="padding: 0 5px;">T 22 N</td> </tr> </table> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr style="width: 50%; margin: 10px auto;"/> <p>N. 88°02' W., bet. secs. 2 and 35.</p> <p>Over rolling land.</p>	T 23 N	R 28 E	S 35	S 36	S 2	S 1	T 22 N			
T 23 N	R 28 E										
S 35	S 36										
S 2	S 1										
T 22 N											
39.90	<p>Point for the 1/4 sec. cor. of secs. 2 and 35, at proportionate dist.; there is no remaining evidence of the original cor.</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 style="padding: 0 5px;">T 23 N</td> <td style="padding: 0 5px;">R 28 E</td> </tr> <tr> <td style="padding: 0 5px;">S 35</td> <td></td> </tr> <tr> <td style="padding: 0 5px;">1/4</td> <td style="padding: 0 5px;">—</td> </tr> <tr> <td style="padding: 0 5px;">S 2</td> <td></td> </tr> <tr> <td colspan="2" style="padding: 0 5px;">T 22 N</td> </tr> </table> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>	T 23 N	R 28 E	S 35		1/4	—	S 2		T 22 N	
T 23 N	R 28 E										
S 35											
1/4	—										
S 2											
T 22 N											
79.80	<p>Point for the cor. of secs. 2, 3, 34 and 35, at proportionate dist.; there is no remaining evidence of the original cor. or the 1920 recovered monument.</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>										

**Dependent Resurvey of the North Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	T 23 N R 28 E S 34 S 35 S 3 S 2 T 22 N 2002
	Deposit a magnet in a white plastic case at the base of the stainless steel post. <hr/>
	N. 88°02' W., bet. secs. 3 and 34. Over rolling land.
39.90	Point for the 1/4 sec. cor. of secs 3 and 34, at proportionate dist.; there is no remaining evidence of the original cor. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	T 23 N R 28 E S 34 1/4 ——— S 3 T 22 N 2003
	Deposit a magnet in a white plastic case at the base of the stainless steel post.
79.80	Point for the cor. of secs. 3, 4, 33 and 34, at proportionate dist.; there is no remaining evidence of the original cor. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	T 23 N R 28 E S 33 S 34 S 4 S 3 T 22 N 2003
	Deposit a magnet in a white plastic case at the base of the stainless steel post. <hr/>
	N. 88°02' W., bet. secs. 4 and 33. Over rolling land.

**Dependent Resurvey of the North Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

CHAINS	
39.90	<p>Point for the 1/4 sec. cor. of secs. 4 and 33, at proportionate dist.; there is no remaining evidence of the original cor.</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 23 N R 28 E S 33 1/4 ——— S 4 T 22 N</p> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
79.80	<p>Point for the cor. of secs. 4, 5, 32 and 33, at proportionate dist.; there is no remaining evidence of the original cor.</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 23 N R 28 E S 32 S 33 — — S 5 S 4 T 22 N</p> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 88°02' W., bet. secs. 5 and 32.</p> <p>Over rolling land.</p>
39.90	<p>Point for the 1/4 sec. cor. of secs. 5 and 32, at proportionate dist.; there is no remaining evidence of the original cor.</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 23 N R 28 E S 32 1/4 ——— S 5 T 22 N</p> <p style="text-align: center;">2003</p>

**Dependent Resurvey of the North Boundary,
T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona**

<p>CHAINS</p>	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>68.80 Apache County Road C322, a graded road, 22 ft. wide, bears ESE and WNW.</p> <p>79.80 Point for the cor. of secs. 5, 6, 31 and 32, at proportionate dist.; there is no remaining evidence of the original cor.</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 23 N R 28 E</p> <table border="1" style="margin: auto;"> <tr> <td>S 31</td> <td>S 32</td> </tr> <tr> <td>S 6</td> <td>S 5</td> </tr> </table> <p>T 22 N</p> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr/> <p>N. 88°02' W., bet. secs. 6 and 31.</p> <p>Over rolling land.</p> <p>39.90 Point for the 1/4 sec. cor. of secs. 1 and 36, at proportionate dist.; there is no remaining evidence of the original cor.</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 23 N R 28 E</p> <p>S 31</p> <p>1/4 ———</p> <p>S 6</p> <p>T 22 N</p> <p>2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>79.02 The cor. of Tps. 22 and 23 N., Rs. 27 and 28 E., hereinbefore described.</p> <hr/>	S 31	S 32	S 6	S 5
S 31	S 32				
S 6	S 5				

T. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The area resurveyed is within the Navajo Indian Reservation, approximately 7 miles southeast of the community of Wide Ruins, Arizona. The terrain is mostly rolling with southerly and southwesterly drainage.

The elevation varies from 6000 to 6800 feet above sea level. The soil is sand and sandy clay. The vegetation principally consists of rabbit brush, cacti, sagebrush and native grasses. The timber consists primarily of piñon and juniper, ranging from sparse to dense areas.

Principal access to the township is provided by U. S. Highway 191, which runs generally parallel to and west of the west boundary of the township. Navajo Route 9011, a graded road, branches off from U.S. Highway 191 and enters the township in sec. 24. Much of the area is used for grazing of livestock. There is no mining activity in the area.

The mean magnetic declination of $11\ 1/2^\circ$ E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.

**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, Jones Curtiss, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 1st day of May, 2002, and supplemental special instructions bearing date of the 23rd day of September, 2002, I have dependently resurveyed the west and north boundaries of T. 22 N., R. 28 E., 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, supplemental 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.

April 27, 2005
(Date)

Jones Curtiss
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of the west and north boundaries of T. 22 N., R. 28 E., 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.

June 2, 2005
(Date)

Stephan 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. 22 N., R. 28 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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