

BOOK 5145

# FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF  
 THE FIFTH GUIDE MERIDIAN EAST (EAST BOUNDARY),  
 A PORTION OF THE SOUTH BOUNDARY  
 AND A PORTION OF THE SUBDIVISIONAL LINES  
 TOWNSHIP 27 NORTH, RANGE 20 EAST

Of the GILA AND SALT RIVER Meridian,  
 In the State of ARIZONA

## EXECUTED BY

KENNETH A. KRENKE SUPERVISORY CADASTRAL SURVEYOR

MARVIN T. KOPPANG CADASTRAL SURVEYOR

Under special instructions dated JULY 1, 1977, approved JULY 14, 1977,  
 AND SUPPLEMENTAL SPECIAL INSTRUCTIONS DATED FEBRUARY 24, 1978, APPROVED

MARCH 6, 1978, which provided for the surveys included under ~~U.S. Survey~~ XXXXXX Group  
 Number 594, and assignment instructions dated MAY 2, 1977.

Survey commenced AUGUST 8, 1977

Survey completed DECEMBER 1, 1978

# INDEX DIAGRAM

Township 27 North, Range 20 East,

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T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

## CHAINS

The following field notes describe the dependent resurvey of portions of the east boundary (Fifth Guide Meridian East), the south boundary, and the subdivisional lines in Township 27 North, Range 20 East, Gila and Salt River Meridian, Arizona.

In 1891, John C. Smith surveyed portions of the south and west boundaries and subdivisions and partially subdivided sections 20, 21, 28, 29, 30, 32, and 33, as shown on the official plat approved March 18, 1892.

In 1908-1910, Sidney E. Blout resurveyed portions of the south and west boundaries and surveyed the Fifth Guide Meridian East (E. bdy.), portions of the north, south and west boundaries. Van L. White resurveyed a portion of the subdivisional lines and surveyed a portion of the subdivisions as shown on the official plat approved April 25, 1914.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, the Special Instructions dated July 1, 1977, and Supplemental Special Instructions dated February 24, 1978, for Group No. 594, Arizona.

Preliminary to the resurvey the lines of the original survey were retraced and search was made for all corners and other calls of the official record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The direction of all lines was determined by direct altitude observations of the sun and Polaris, and refer to the true meridian.

The geographic position of the cor. of Tps. 26 and 27 N., Rs. 20 and 21 E., determined by a tie to U.S. Geological Survey triangulation station "SEC COR 34/27N/20E" 1964, identical with the cor. of secs. 2, 3, 34, and 35, on the S. bdy. of the Tp., is:

Latitude  $35^{\circ} 41' 32''$  N., Longitude  $110^{\circ} 08' 46''$  W.

The mean magnetic declination is  $13 \frac{1}{2}^{\circ}$  E.

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Dependent Resurvey, Portion of the  
Fifth Guide Meridian East (E. Bdy.)  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

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Restoring the survey executed by  
Sidney E. Blout in 1910

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Beginning at the cor. of Tps. 26 and 27 N., Rs. 20 and 21 E., determined at record bearing and distance from the remaining original bearing trees

A juniper, 14 ins. diam., bears N.  $68^{\circ}$  E., 35 lks. dist., mkd. T27N R21E S31 BT.

A pinon, 8 ins. diam., bears N.  $81 \frac{1}{2}^{\circ}$  W., 72 lks. dist., mkd. T27N R20E S36 BT.

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Dependent Resurvey, Portion of the  
Fifth Guide Meridian East (E. Bdy.)  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, encircled with a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E   R21E S 36   S 31 ----- S 1   S 6 T26N</p> <p style="text-align: center;">1977</p> <p>from which new bearing trees</p> <p style="padding-left: 40px;">A juniper, 12 ins. diam., bears S. 15° E., 46 lks. dist., mkd. T26N R21E S6 BT.</p> <p style="padding-left: 40px;">A juniper, 6 ins. diam., bears S. 64° W., 29 lks. dist., mkd. T26N R20E S1 BT.</p> <p>Set a steel fence post alongside the cor.</p> <p>Cor. is located in the bottom of a large ravine, drains WSW.</p> <p>N. 0° 02' W., bet. secs. 31 and 36.</p>
39.75	<p>The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the E. bdy. (Fifth Guide Meridian East), T. 27 N., R. 20 E. Add the marks T27N R20E R21E 77; the brass cap is now mkd.</p> <p style="text-align: center;">T27N R20E R21E S 36 1/4   S 31</p> <p style="text-align: center;">77 1910</p> <p>from which the original bearing tree</p> <p style="padding-left: 40px;">A pinon, 7 ins. diam., bears S. 81° W., 41 lks. dist., mkd. 1/4 S36 BT. (Record dist.: 81 lks.)</p> <p>from which a new bearing tree</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam., bears S. 59 1/2° E., 66 lks. dist., mkd. 1/4 S31 BT.</p> <p>Set a steel fence post alongside the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0° 05' E., beginning new measurement.</p>
40.05	<p>The cor. of secs. 25, 30, 31, and 36, monumented with an iron post, 3 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the E. bdy. (Fifth Guide Meridian East), T. 27 N., R. 20 E. Add the marks 77; the brass cap is now mkd.</p>

Dependent Resurvey, Portion of the  
Fifth Guide Meridian East (E. Bdy.)  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

## CHAINS

T27N  
R20E|R21E  
S 25|S 30  
S 36|S 31

77  
1910

There is no remaining evidence of the original bearing trees.

from which new bearing trees

A juniper, 8 ins. diam., bears N. 82 1/2° E., 50 lks. dist., mkd. T27N R21E S30 BT.

A juniper, 6 ins. diam., bears S. 28 1/2° E., 144 lks. dist., mkd. T27N R21E S31 BT.

A pinon, 8 ins. diam., bears S. 33° W., 107 lks. dist., mkd. T27N R20E S36 BT.

A juniper, 5 ins. diam., bears N. 34 1/2° W., 138 lks. dist., mkd. T27N R20E S25 BT.

N. 0° 02' E., bet. secs. 25 and 30.

Over nearly level terrain, through pinon and juniper timber.

11.24 Intersect the Hopi-Navajo Partition line. Point for AP B-33A; not monumented.

39.93 The 1/4 sec. cor. of secs. 25 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the E. bdy. (Fifth Guide Meridian East), T. 27 N., R. 20 E. Add the marks T27N R20E R21E 77; the brass cap is now mkd.

T27N  
R20E|R21E  
S 25 1/4|S 30

77  
1910

from which an original bearing tree

A juniper, 8 ins. diam., bears N. 56 1/4° W., 52 lks. dist., mkd. 1/4 S25 BT.

from which a new bearing tree

A pinon, 5 ins. diam., bears N. 17° E, 31 lks. dist., mkd. X BT.

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

Restoring the survey executed by  
Sidney E. Blout in 1910

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>From the cor. of Tps. 26 and 27 N., Rs. 20 and 21 E., heretofore described.</p> <p>N. 89° 53' W., bet. secs. 1 and 30.</p> <p>39.90 The 1/4 sec. cor. of secs. 1 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the N. bdy., T. 26 N., R. 20 E. Add the marks T27N R20E T26N 77; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>T27N R20E</p> <p>S36 1/4   S1</p> <p>1910 77</p> <p>T26N</p> </div> <p>from which the original bearing trees</p> <p>A juniper, 10 ins. diam., bears N. 4° E., 17 lks. dist., mkd. 1/4 S36 BT.</p> <p>A dead pinon, 10 ins. diam., bears S. 16 1/2° E., 59 lks. dist., mkd. 1/4 S1 BT.</p> <p>from which a new bearing tree</p> <p>A juniper, 10 ins. diam., bears S. 34° W., 46 lks. dist., mkd. 1/4 S1 BT.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89° 57' W., beginning new measurement.</p> <p>Over rough, rolling hills through scattered pinon timber.</p>	
<p>39.82</p>	<p>The witness cor. for the cor. of secs. 1, 2, 35, and 36, determined by record bearing and dist. from the original bearing trees</p> <p>A juniper, 8 ins. diam., bears N. 79 3/4° E., 43 lks. dist., mkd. WC T27N R20 36.</p> <p>A juniper, 20 ins. diam., bears S. 50 1/2° E., 65 lks. dist., mkd. WC T26N R20E S1 BT.</p> <p>A juniper, 24 ins. diam., bears S. 2 1/2° W., 147 lks. dist., mkd. WC T26N R20E S2 BT.</p> <p>The original monument, an iron post, 36 ins. long, 3 ins. diam., was found lying loose on the ground near the cor. point.</p> <p>At the corner point</p> <p>Reset the iron post, 36 ins. long, 3 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>WC</p> <p>R20E</p> <p>T27N   T26N</p> <p>S 36   S 1</p> <p>S 35   S 2</p> <p>1910 77</p> </div>	

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
39.92	<p>The date 77 and the arrow were added to brass cap.</p> <p>Set a steel fence post alongside the cor.</p> <p>True point for the cor. of secs. 1, 2, 35, and 36, located on a very steep dirt bank, impracticable to monument.</p> <hr/>
39.96	<p>WEST, bet. secs. 2 and 35.</p> <p>Over nearly level land, through scattered pinon timber.</p> <p>The 1/4 sec. cor. of secs. 2 and 35, determined at the intersection of record distances from the original bearing trees</p> <p style="padding-left: 40px;">A juniper stump, bears N. 15 3/4° E., 362 lks. dist.</p> <p style="padding-left: 40px;">A juniper, 10 ins. diam., bears S. 85° W., 183 lks. dist., mkd. 1/4 S2 BT. (Record bearing: S. 73° W.)</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; padding: 10px 0;"> <p>T27N R20E</p> <p>1/4 <math>\frac{S\ 35}{S\ 2}</math></p> <p>T26N</p> <p>1977</p> </div> <p>from which a new bearing tree</p> <p style="padding-left: 40px;">A juniper, 4 ins. diam., bears N. 12° W., 62 lks. dist., mkd. X BT.</p> <p>Set a steel fence post alongside the cor.</p> <hr/>
40.09	<p>N. 89° 47' W., beginning new measurement.</p> <p>Over nearly level land, through scattered pinon and juniper timber.</p> <p>The cor. of secs. 2, 3, 34, and 35, monumented with an iron post, 3 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. as described in the official record of the 1910 survey of the N. bdy., T. 26 N., R. 20 E. Add the marks 77; the brass cap is now mkd.</p> <div style="text-align: center; padding: 10px 0;"> <p>T27N R20E</p> <p>S 34   S 35</p> <p>S 3   S 2</p> <p>T26N</p> <p>77</p> <p>1910</p> </div> <p>from which the original bearing trees</p>

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>The root crown of a juniper, bears N. 37° E., 307 lks. dist., no marks visible. (Record dist.: 302 lks.)</p> <p>A rotten pinon stump, bears S. 36 3/4° E., 365 lks. dist., no marks visible.</p> <p>A rotten juniper stump, bears S. 80° W., 225 lks. dist., no marks visible. (Record dist.: 221 lks.)</p> <p>A juniper, 14 ins. diam., bears N. 31 3/4° W., 135 lks. dist., mkd. T27N R20E S34 BT.</p> <p>from which new bearing trees</p> <p>A pinon, 8 ins. diam., bears N. 21 1/2° E., 217 lks. dist., mkd. T27N R20E S35 BT.</p> <p>A pinon, 12 ins. diam., bears S. 37° E., 397 lks. dist., mkd. T26N R20E S2 BT.</p> <p>A pinon, 10 ins. diam., bears S. 73 1/2° W., 238 lks. dist., mkd. T26N R20E S3 BT.</p>	
	<p>N. 89° 54' W., bet. secs. 3 and 34.</p>	
	<p>Over large valley through scattered pinon and juniper timber.</p>	
39.95	<p>The 1/4 sec. cor. of secs. 3 and 34, determined at record bearing and distance from the remaining original bearing tree</p> <p>A juniper, 10 ins. diam., bears S. 34 1/2° E., 160 lks. dist., mkd. 1/4 S3 BT.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E 1/4 <math>\frac{S\ 34}{S\ 3}</math> T26N 1977</p> <p>from which a new bearing tree</p> <p>A juniper, 5 ins. diam., bears N. 7 3/4° W., 54 lks. dist., mkd. X BT.</p>	
	<p>N. 89° 56' W., beginning new measurement.</p>	
	<p>Over rolling hills, through scattered pinon and juniper timber.</p>	
39.99	<p>The cor. of secs. 3, 4, 33, and 34, determined at the intersection of record distances from the remaining original bearing trees</p> <p>A juniper stump, 12 ins. diam., bears N. 48° E., 119 lks. dist., mkd. S34 BT.</p>	

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

	CHAINS	
		<p>A juniper stump, 18 ins. diam., bears S. 10° E., 154 lks. dist., no marks visible.</p> <p>A juniper, 8 ins. diam., bears S. 7° W., 186 lks. dist., mkd. T26N R20E S4 BT.</p> <p>The remaining fork of a juniper, 12 ins. diam., bears N. 41 1/4° W., 47 lks. dist., no marks visible. (Record bearing: N. 36 1/4° W.) Add the marks T27N R20E S33 BT.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E S 33   S 34 S 4   S 3 T26N</p> <p style="text-align: center;">1977</p> <p>from which a new bearing tree</p> <p>A juniper, 14 ins. diam., bears S. 21 1/2° E., 120 lks. dist., mkd. T26N R20E S3 BT.</p> <p>Set a steel fence post alongside the cor.</p> <hr/> <p>N. 89° 55' W., bet. secs. 4 and 33.</p> <p>Over gently rolling hills, through scattered pinon and juniper timber.</p>
	33.83	<p>AP B-17 on the Hopi-Navajo Partition line, monumented with an iron post, 2 1/2 ins. diam., firmly set in concrete, projecting 8 ins. above the ground, with steel fence post set alongside, as described in the field note record of the survey of the Hopi-Navajo Partition line, Segment "B", executed concurrently under this same group.</p>
	39.98	<p>The 1/4 sec. cor. of secs. 4 and 33, identical with AP B-16 on the Hopi-Navajo Partition line, determined at record bearing and dist. from the remaining original bearing tree</p> <p>A juniper, 14 ins. diam., bears S. 63 1/2° W., 102 lks. dist., mkd. 1/4 S4 BT.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E NAVAJO 1/4 S 33 S 4 HOPI AP B-16 T26N</p> <p style="text-align: center;">1977</p>

Dependent Resurvey of a Portion of the South Boundary  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>Set a steel fence post alongside the cor.</p> <p>Cor. is located approximately 250 lks. W. of trail road, bears N. and S.</p> <hr/> <p>N. 89° 57' W., beginning new measurement.</p>
15.72	<p>AP B-15 on the Hopi-Navajo Partition line, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above the ground, in concrete, with steel fence post set alongside, as described in the field note record of the survey of the Hopi-Navajo Partition line, Segment "B", executed concurrently under this same group.</p>
32.88	<p>Point for AP B-13B on the Hopi-Navajo Partition line; not monumented.</p>
40.01	<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 an iron post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in concrete, with brass cap mkd.</p> <div style="text-align: center;"> <p>T27N R20E S 32   S 33 S 5   S 4 T26N</p> <p>1977</p> </div> <p>Set a steel fence post alongside the cor.</p> <hr/> <p>N. 89° 57' W., bet. secs. 5 and 32.</p> <p>Over nearly level land through scattered pinon and juniper timber.</p>
0.63	<p>Point for AP B-12A on the Hopi-Navajo Partition line; not monumented.</p>
40.01	<p>The 1/4 sec. cor. of secs. 5 and 32, monumented with an iron post, 1 in. diam., firmly set, projecting 3 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the N. bdy. of T. 26 N., R. 20 E. Add the marks T27N R20E T26N 77; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>T27N R20E S32 1/2   S5 1910 77 T26N</p> </div> <hr/> <p>N. 89° 58' W., beginning new measurement.</p> <p>Over rough, rolling, sparsely vegetated terrain.</p>



CHAINS	
	T27N R20E S 26   S 25 S 35   S 36
	77 1910
	from which the remaining original bearing trees
	A pinon, 10 ins. diam., bears S. 3 1/2° W., 57 lks. dist., mkd. T27N R20E S35 BT.
	A juniper, 12 ins. diam., bears N. 27° W., 74 lks. dist., mkd. T27N R20E S26 BT.
	from which a new bearing tree
	A juniper, 4 ins. diam., bears S. 46° E., 73 lks. dist., mkd. X BT.
	Cor. is located in a small draw, drains N.
	<hr/> From the cor. of secs. 25, 30, 31, and 36, on the E. bdy. (Fifth Guide Meridian East) of the Tp., heretofore described.
	N. 89° 51' W., bet. secs. 25 and 36.
	Over nearly level terrain, through pinon and juniper timber.
33.75	Point for AP B-32A, on the Hopi-Navajo Partition line; not monumented.
39.99	The 1/4 sec. cor. of secs. 25 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivi- sional lines of T. 27 N., R. 20 E. Add the marks T27N R20E 77; the brass cap is now mkd.
	T27N R20E S 25 1910 77 S 36
	from which an original bearing tree
	A pinon, 10 ins. diam., bears N. 39 1/2° E., 35 lks. dist., mkd. 1/4 S25 BT.
	<hr/> N. 89° 51' W., beginning new measurement.
39.97	The cor. of secs. 25, 26, 35 and 36.
	<hr/> N. 0° 14' W., bet. secs. 25 and 26.
	Over rough rolling hills, through scattered pinon and juniper timber.
40.04	The 1/4 sec. cor. of secs. 25 and 26, determined at the intersection of record distances from the original bearing trees

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS

A pinon, 8 ins. diam., bears S. 85° E., 3 lks. dist., mkd. 1/4 S25 BT. (Record bearing: S. 81 1/2° E.)

A dead pinon, 6 ins. diam., bears N. 42 1/2° W., 34 lks. dist., mkd. 1/4 S26 BT.

At the corner point

Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T27N R20E  
1/4  
S 26 | S 25

1977

from which a new bearing tree

A juniper, 16 ins. diam., bears N. 16 1/2° W., 91 lks. dist., mkd. 1/4 S26 BT.

Set a steel fence post alongside the cor.

N. 0° 03' W., beginning new measurement.

39.97

The cor. of secs. 23, 24, 25 and 26, monumented with an iron post, 3 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivisional lines of T. 27 N., R. 20 E. Add the marks 77; the brass cap is now mkd.

T27N R20E  
S 23 | S 24  
S 26 | S 25

77  
1910

from which an original bearing tree

A pinon, 8 ins. diam., bears S. 55° W., 144 lks. dist., mkd. T27N R20E S26 BT.

from which new bearing trees

A pinon, 10 ins. diam., bears N. 55° E., 94 lks. dist., mkd. T27N R20E S24 BT.

A juniper, 8 ins. diam., bears S. 9 1/2° E., 243 lks. dist., mkd. T27N R20E S25 BT.

A juniper, 6 ins. diam., bears N. 75° W., 83 1/2 lks. dist., mkd. T27N R20E S23 BT.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., heretofore described.

N. 0° 01' W., bet. secs. 34 and 35.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>Over rough, rolling terrain, through scattered pinon and juniper timber.</p>	
37.86	<p>AP B-29, on the Hopi-Navajo Partition line, monumented with an iron post, 2 1/2 ins. diam., firmly set in concrete, projecting 8 ins. above ground, as described in the field note record of the survey of the Hopi-Navajo Partition line, Segment "B", executed concurrently under this same group.</p>	
39.93	<p>The 1/4 sec. cor. of secs. 34 and 35, monumented with an iron post, 1 in. diam., firmly set, projecting 15 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivisional lines of T. 27 N., R. 20 E. Add the marks T27N R20E 77; the brass cap is now mkd.</p>	
	<p style="text-align: center;">T27N R20E S 34 1/4   S 35</p> <p style="text-align: center;">77 1910</p>	
	<p>from which an original bearing tree</p> <p style="padding-left: 40px;">A pinon, 10 ins. diam., bears S. 57 1/2° E., 245 lks. dist., mkd. 1/4 S35 BT.</p>	
	<p>from which a new bearing tree</p> <p style="padding-left: 40px;">A juniper, 4 ins. diam., bears S. 60° W., 277 lks. dist., mkd. X BT.</p>	
	<p style="text-align: center;">_____</p> <p>N. 0° 01' E., beginning new measurement.</p> <p>Ascend gentle S. slope, through scattered pinon and juniper timber.</p>	
39.91	<p>The cor. of secs. 26, 27, 34 and 35, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivisional lines of T. 27 N., R. 20 E. Add the marks 77; the brass cap is now mkd.</p>	
	<p style="text-align: center;">T27N R20E S 27   S 26 S 34   S 35</p> <p style="text-align: center;">77 1910</p>	
	<p>from which the remaining original bearing trees</p> <p style="padding-left: 40px;">A juniper, 10 ins. diam., bears N. 24 1/2° E., 103 lks. dist., with visible marks TNROE26 BT.</p> <p style="padding-left: 40px;">A juniper, 8 ins. diam., bears S. 50° W., 30 lks. dist., mkd. T27N R20E S34 BT.</p> <p style="padding-left: 40px;">A juniper, 11 ins. diam., bears N. 74° W., 112 lks. dist., mkd. T27N R20E S27 BT. (Record dist., 78 lks.)</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>from which a new bearing tree</p> <p>A pinon, 7 ins. diam., bears S. 40 1/2° E., 67 lks. dist., mkd. T27N R20E S35 BT.</p> <hr/> <p>From the cor. of secs. 25, 26, 35, and 36.</p> <p>N. 89° 54' W., bet. secs. 26 and 35.</p> <p>Over rough, rolling terrain, through pinon and juniper timber.</p>
39.90	<p>The 1/4 sec. cor. of secs. 26 and 35, determined at record bearing and dist. from the remains of the original bearing trees</p> <p>A juniper stump, 12 ins. diam., bears N. 58° E., 282 lks. dist., no visible marks.</p> <p>A pinon stump hole and root structure, bears S. 10° E., 104 lks.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T27N R20E 1/4 <math>\frac{S\ 26}{S\ 35}</math> 1977</p> <p>from which new bearing trees</p> <p>A juniper, 6 ins. diam., bears S. 45 1/4° W., 85 lks. dist., mkd. 1/4 S35 BT.</p> <p>A juniper, 4 ins. diam., bears N. 65 3/4° W., 80 lks. dist., mkd. X BT.</p> <hr/> <p>N. 89° 56' W., beginning new measurement.</p> <p>Over gentle NW slope, through pinon and juniper timber.</p>
40.01	<p>The cor. of secs. 26, 27, 34 and 35.</p> <hr/> <p>From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp., heretofore described.</p> <p>N. 0° 02' W., bet. secs. 33 and 34.</p> <p>Ascend S. slope through pinon and juniper timber.</p>
12.54	<p>Point for AP B-18A on the Hopi-Navajo Partition line; not monumented.</p>
39.95	<p>Point for the 1/4 sec. cor. of secs. 33 and 34, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p style="text-align: center;">T27N R20E 1/4 S 33 S 34</p> <p style="text-align: center;">1977</p> <p>from which</p> <p style="padding-left: 40px;">A pinon, 10 ins. diam., bears N. 39 1/2° E., 48 lks. dist., mkd. 1/4 S34 BT.</p> <p style="padding-left: 40px;">A pinon, 8 ins. diam., bears N. 51 1/4° W., 66 lks. dist., mkd. 1/4 S33 BT.</p>	
79.90	<p>Point for the cor. of secs. 27, 28, 33 and 34, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E S 28 S 27 S 33 S 34</p> <p style="text-align: center;">1977</p> <p>From this cor., the cor. of secs. 15, 16, 21, and 22, bears N. 0° 02' E., 159.80 chs. dist., monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E S 16 S 15 S 21 S 22</p> <p style="text-align: center;">1910</p> <p>The control line was fully retraced and no evidence of the intervening cors. was found.</p> <p style="padding-left: 40px;">From the cor. of secs. 15, 16, 21, and 22, U.S.G.S. triangulation station MP 73 1/2, identical with Mile Post 73 1/2 of the Hopi Indian Reservation, Management District No. 6, bears N. 7° 08' E., 130.74 chs. dist., monumented with an iron post, 2 1/2 ins. diam., projecting 6 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">MP 73 1/2 HOPI</p> <p style="text-align: center;">1964</p> <hr/> <p>From the cor. of secs. 26, 27, 34 and 35.</p> <p>N. 89° 54' W., bet. secs. 27 and 34.</p> <p>Over rough terrain, along slide area of bluff.</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
39.97	<p>The 1/4 sec. cor. of secs. 27 and 34, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivisional lines of T. 27 N., R. 20 E. Add the marks T27N R20E 77; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>T27N R20E S 27 1910 77 <math>\frac{1}{4}</math> S 34</p> </div> <p>from which the original bearing trees</p> <p>A juniper, 12 ins. diam., bears N. 75 1/4° E., 79 lks. dist., mkd. 1/4 S27 BT.</p> <p>A pinon, 12 ins. diam., bears S. 35 1/2° E., 242 lks. dist., mkd. 1/4 S34 BT.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89° 48' W., beginning new measurement.</p> <p>Descend gentle W. slope.</p>
39.99	<p>The cor. of secs. 27, 28, 33 and 34.</p> <hr style="width: 80%; margin: 10px auto;"/> <p>N. 89° 51' W., bet. secs. 28 and 33.</p> <p>Over rough, rolling hills.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 28 and 33, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron 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>T27N R20E 1/4 <math>\frac{S 28}{S 33}</math> 1977</p> </div>
80.00	<p>The cor. of secs. 28, 29, 32 and 33, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T27N R20E <math>\frac{S 29   S 28}{S 32   S 33}</math> 1910</p> </div> <hr style="width: 80%; margin: 10px auto;"/> <p>From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., heretofore described.</p> <p>N. 0° 05' W., bet. secs. 31 and 32.</p> <p>Over gentle NE slope.</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS		
39.97	<p>Point for the 1/4 sec. cor. of secs. 31 and 32, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E 1/4 S 31 S 32</p> <p style="text-align: center;">1977</p>	
74.02	<p>AP B-4 on the Hopi-Navajo Partition line, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above ground, in concrete, with a steel fence post alongside, as described in the survey of the Hopi-Navajo Partition line, Segment "B", executed concurrently under this same group.</p>	
79.94	<p>The cor. of secs. 29, 30, 31 and 32, identical with AP B-3 on the Hopi-Navajo Partition line, monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. as described in the official record of the 1910 survey of the subdivisional lines of T. 27 N., R. 20 E. Add the marks HOPI NAVAJO AP B-3 77; the brass cap is now mkd.</p> <p style="text-align: center;">T27N R20E HOPI NAVAJO <u>S 30 S 29</u> S 31 S 32 AP B-3</p> <p style="text-align: center;">77 1910</p> <p>Surround the iron post with concrete, and set a steel fence post alongside the cor.</p> <hr/> <p>N. 0° 03' W., bet. secs. 29 and 30.</p>	
39.98	<p>Point for the 1/4 sec. cor. of secs. 29 and 30, identical with AP B-2 on the Hopi-Navajo Partition line, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E 1/4 HOPI NAVAJO S 30 S 29 AP B-2</p> <p style="text-align: center;">1977</p> <p>Set a steel fence post alongside the cor.</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 27 N., R. 20 E., Gila and Salt River Mer., Arizona

CHAINS	
73.05	AP B-1 on the Hopi-Navajo Partition line, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above the ground, in concrete, with a steel fence post set alongside, as described in the survey of the Hopi-Navajo Partition line, Segment "B", executed concurrently under this same group.
79.96	<p>The cor. of secs. 19, 20, 29 and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">T27N R20E S 19 S 20 S 30 S 29</p> <p style="text-align: center;">1910</p>
<u>GENERAL DESCRIPTION</u>	
<p>The area resurveyed in T. 27 N., R. 20 E., is located approximately 8 miles south of Keams Canyon, Arizona. The general elevation ranges from approximately 5900 to 6600 feet above sea level. The terrain varies from bottom land in the west portion to mesas in the south and east. The soil varies from sandy loam in the valley and upper mesa to bare red sandstone on the bluffs. The vegetation consists of sparse native grasses and weeds with scattered areas of pinon and juniper timber.</p>	
<p>Access is mainly by graded dirt road bearing generally northeast to southwest passing through sections 34 and 35. There are numerous trail roads meandering throughout the area.</p>	
<p>There are several hogans grouped together in the northwest corner of section 33 and also several hogans in section 34. The west portion of the area is supplied with water from Jeddito Spring in the north half of section 32.</p>	
<p>The average of a number of readings along the lines resurveyed gives a mean magnetic declination of 14° E. with no noticeable difference due to local attraction.</p>	

CHAINS	
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Everett E. Gorgen	Surveying Aid
Donald G. Beecroft, Jr.	Surveying Aid
Gerald L. Hodgson	Surveying Aid
Ervin Begay	Surveying Aid
Roger Bahee	Surveying Aid
Robert L. Clark	Surveying Aid
William M. Lyons	Surveying Aid
Ross H. Taylor	Surveying Aid

CERTIFICATE OF SURVEY

~~XX~~ (We), Kenneth A. Krenke and Marvin T. Koppang, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 1st day of July, 1977, ~~XXXXXX~~ and Supplemental Special Instructions dated February 24, 1978, (We) have dependently resurveyed portions of the east boundary (Fifth Guide Meridian East), the south boundary, and the subdivisional lines, Township 27 North, Range 20 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 ~~XXX~~ (us) and under ~~XXX~~ (our) 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, and in specific manner described in the foregoing field notes.

Kenneth A. Krenke and Marvin T. Koppang are no longer employees of the Bureau of Land Management and could not be reached to sign this Certificate of Survey.

May 4, 1981  
 \_\_\_\_\_  
 (Date)

*Jack A. Evans*  
 \_\_\_\_\_  
~~XXXXXXXXXXXXXXXXXX~~  
 Acting Chief, Branch of Cadastral Survey

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

\_\_\_\_\_  
 (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
 Denver, Colorado

The foregoing field notes of the dependent resurvey of portions of the east boundary (Fifth Guide Meridian East), the south boundary, and the subdivisional lines, Township 27 North, Range 20 East, of the Gila and Salt River Meridian, Arizona

executed by Kenneth A. Krenke, Supervisory Cadastral Surveyor, and Marvin T. Koppang, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

SEP 17 1981  
 \_\_\_\_\_  
 (Date)

*Mary S. Speight*  
 \_\_\_\_\_  
 ACTING (Chief, Cadastral Survey Examination and Approval Staff)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, is a true copy of the original field notes.

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

\_\_\_\_\_  
 (Chief, Cadastral Survey Examination and Approval Staff)