

Form 9180-6
(April 1974)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE

SOUTH BOUNDARY AND SUBDIVISIONAL LINES

AND THE SURVEY OF A PORTION OF THE

WEST BOUNDARY AND SUBDIVISIONAL LINES

WHICH IS A PORTION OF THE EAST AND NORTH BOUNDARY

OF SAGUARO NATIONAL MONUMENT

TOWNSHIP 14 SOUTH, RANGE 18 EAST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

LEONARD W. MURPHY SUPERVISORY CADASTRAL SURVEYOR

KENNETH A. KRENKE SUPERVISORY CADASTRAL SURVEYOR

Under special instructions dated JANUARY 18, 1972, approved JANUARY 24, 1972,
AND AMENDED SPECIAL INSTRUCTIONS DATED DECEMBER 3, 1976, APPROVED JANUARY 10,

1977, which provided for the surveys included under ~~XXXXXX~~ Group
Number 533, and assignment instructions dated JANUARY 18, 1972.
AND DECEMBER 3, 1976,

Survey commenced JANUARY 25, 1972

Survey completed FEBRUARY 8, 1977

1A

BOOK 5031

INDEX DIAGRAM

Township 14 SOUTH, Range 18 EAST

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T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the south boundary and subdivisional lines and a survey of a portion of the west boundary and subdivisional lines which is a portion of the east and north boundaries of the Saguaro National Monument, Township 14 South, Range 18 East, of the Gila and Salt River Meridian., Arizona.

The east 3 miles of the south boundary, south 1 mile of the east boundary, and a portion of the subdivisional lines were surveyed by L. D. Chillson, in 1881. The north boundary was surveyed by F. W. Chapin and Benjamin J. Kinsey, in 1921. A portion of the east boundary was resurveyed and surveyed by S. E. Blout, in 1923.

The survey was executed in accordance with the specifications set forth in the Manuals of Surveying Instructions, 1947 and 1973, the Special Instructions dated January 18, 1972 and Amended Special Instructions dated December 3, 1976, for Group No. 533, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and a diligent search was made for all corners and other calls of the record. Except for three (3) section corners on the exterior boundaries of the township, no evidence of the original survey was recovered. Lost corners were restored and monumented at record bearings and distances based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of lines were determined by solar and Polaris observations and refer to the true meridian.

The geographic position of the southeast corner of the township, determined from a tie to U.S. Coast and Geodetic Survey triangulation station, "TURKEY," located in section 34, Township 14 South, Range 18 East, is as follows;

Latitude 32° 09' 52.7" N, Longitude 110° 26' 49.1" W.

The mean magnetic declination is 13½° E.

Dependent Resurvey of a Portion of the South Boundary
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

Restoring the Survey Executed by L. D. Chillson, in 1881

Beginning at the cor. of Tps. 14 and 15 S., Rs. 18 and 19 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 9 ins. above ground, with brass cap mkd.

T14S
R18E R19E
S 36 | S 31
S 1 | S 6
T15S
1923

from which the remains of the bearing trees mkd. in 1923

A mesquite 18 ins. diam., bears N. 41½° E.,
30 lks. dist., no marks visible.

Dependent Resurvey of a Portion of the South Boundary
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS							
	<p>A mesquite, 14 ins. diam., bears N. 20$\frac{1}{4}$° W., 109 lks. dist., with scribed marks T14S R18E S36 BT visible on open blaze.</p> <p>West, bet. secs. 1 and 36, on the S. bdy. of the Tp.</p> <p>Descent over rolling hills, through moderate undergrowth.</p>						
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36, at record bearing and distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2$\frac{1}{2}$ ins. diam., 24 ins. in the ground, and in a collar of stone, with brass cap mkd.</p> <div style="text-align: center;"> <p>T14S R18E</p> <table style="margin: auto;"> <tr> <td style="padding-right: 5px;">$\frac{1}{4}$</td> <td style="border-right: 1px solid black; padding-right: 5px;">S 36</td> <td></td> </tr> <tr> <td></td> <td style="border-right: 1px solid black; padding-right: 5px;">S 1</td> <td></td> </tr> </table> <p>T15S 1977</p> </div> <p>from which</p> <p>The south fork of a twin mesquite, 20 ins. diam., bears N. 1$\frac{1}{4}$° E., 114 lks. dist., mkd. $\frac{1}{4}$ S36 BT.</p> <p>The east fork of a three forked mesquite, 6 ins. diam., bears S. 89 $\frac{3}{4}$° W., 41$\frac{1}{2}$ lks. dist., mkd. $\frac{1}{4}$ S1 BT.</p>	$\frac{1}{4}$	S 36			S 1	
$\frac{1}{4}$	S 36						
	S 1						
61.00	<p>Wash, 20 lks. wide, drains S.; asc. over E. slope.</p>						
80.00	<p>Point for the cor. of secs. 1, 2, 35 and 36, at record bearing and distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2$\frac{1}{2}$ ins. diam., 25 in. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T14S R18E</p> <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">S 35</td> <td style="border-right: 1px solid black; padding-right: 5px;">S 36</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">S 2</td> <td style="border-right: 1px solid black; padding-right: 5px;">S 1</td> <td></td> </tr> </table> <p>T15S 1977</p> </div> <p>Raise a mound of stone, 2$\frac{1}{2}$ ft. base, 1 ft. high, W. of the cor.</p>	S 35	S 36		S 2	S 1	
S 35	S 36						
S 2	S 1						
	<p>West, bet. secs. 2 and 35, on the S. bdy. of the Tp.</p> <p>Ascend steep SE slope, through moderate undergrowth.</p>						
11.00	<p>Spur, slopes SE; desc. over steep SW slope.</p>						
24.00	<p>Ravine, drains SSE; asc. over steep SE slope.</p>						
35.00	<p>Spur, slopes SSE; desc. over steep SW slope.</p>						
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 35, at record bearing and distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2$\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>						

Dependent Resurvey of a Portion of the South Boundary
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T14S R18E $\frac{1}{4}$ $\frac{S\ 35}{S\ 2}$ T15S 1977</p> <p>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.</p>
43.00	Ravine, drains SSE; asc. over steep and broken SE slope.
66.00	Spur, slopes S.; desc. over steep SW slope.
74.00	Turkey Creek, 30 lks. wide, course SSE; enter scattered timber, bears NNW and SSE; asc. steep mountainous land, over NE slope.
80.00	Point for the cor. of secs. 2, 3, 34 and 35, at record bearing and distance; there is no remaining evidence of the original corner.
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E $\frac{S\ 34}{S\ 3}$ $\frac{S\ 35}{S\ 2}$ T15S 1977</p> <p>from which</p> <p style="padding-left: 40px;">The west fork of a twin oak, 8 ins. diam., bears N. 24° E., 46 lks. dist., mkd. X BT.</p> <p>Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of the cor.</p>
	<p>West bet. secs. 3 and 34, on the S. bdy. of the Tp.</p> <p>Ascend over steep NE slope, through scattered timber.</p>
26.00	Ridge, bears NW and SE; desc. over steep SW slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34, at record bearing and distance; there is no remaining evidence of the original corner
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 16 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E $\frac{1}{4}$ $\frac{S\ 34}{S\ 3}$ T15S 1977</p> <p>from which</p> <p style="padding-left: 40px;">An oak, 8 ins. diam., bears N. 3½° E., 69½ lks. dist., mkd. ¼ S34 BT.</p> <p style="padding-left: 40px;">The south fork of a twin oak, 10 ins. diam., bears S. 83° W., 105 lks. dist., mkd. ¼ S3 BT.</p>

Dependent Resurvey of a Portion of the South Boundary
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.</p>
	<p>The cor. is located in a dry wash, 10 lks. wide, drains E. for approximately 70 lks., thence S.</p>
	<p>Ascend over steep NE slope.</p>
51.00	<p>Spur, slopes SE; desc. over steep SW slope.</p>
77.00	<p>Bottom of Miller Canyon, drains SE; enter moderate timber bears NW and SE; asc. over steep NE slope.</p>
80.00	<p>Point for the cor. of secs. 3, 4, 33 and 34, on the E. bdy. of Saguaro National Monument, at record bearing and distance; there is no remaining evidence of the original corner.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R18E S 33 S 34 S 4 S 3</p>
	<p style="text-align: center;">T15S 1972</p>
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p>
<p>Dependent Resurvey, Portion of the Subdivisional Lines, T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona</p>	
<p>Restoring the Survey Executed by L. D. Chillson, in 1881</p>	
	<p>From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp.</p>
	<p>North, bet. secs. 33 and 34, along the E. bdy. of Saguaro National Monument.</p>
	<p>Descend steep NE slope, through moderate timber and light undergrowth.</p>
4.00	<p>Bottom of Miller Canyon, drains SSE; asc. over steep SW slope.</p>
27.80	<p>Spur, slopes W.; continue to ascend.</p>
40.00	<p>Point for the ¼ sec. cor. of secs. 33 and 34, at proportionate distance; there is no remaining evidence of the original cor.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R18E ¼ S 33 S 34 1977</p>
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From this point, the U.S. Coast and Geodetic triangulation station, "TURKEY", bears S. 62° 27' E., 10.14 chs. dist., monumented with a brass tablet, 3¼ ins. diam., firmly set in a drill hole, in concrete, on a rock outcropping with top mkd. TURKEY 1936.</p>
41.10	<p>Spur, slopes NE; desc. over NE slope.</p>
79.30	<p>Draw, drains E.; asc. over S. slope.</p>
80.00	<p>Point for the cor. of secs. 27, 28, 33 and 34, determined by the two point control method; latitudinally at record distance from the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., and longitudinally at record distance from the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp. There is no remaining evidence of the original cor.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R18E $\frac{S\ 28\ S\ 27}{S\ 33\ S\ 34}$ 1977</p>
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p>
	<p>From this point, the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., bears S. 89° 59' E., 239.78 chs. dist., monumented with an iron post, 2 ins. diam., firmly set, projecting 18 ins. above ground, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R18E R19E $\frac{S\ 25\ S\ 30}{S\ 36\ S\ 31}$ 1923</p>
	<p>from which</p> <p style="padding-left: 40px;">A pinon, 20 ins. diam., bears S, 37½° W., 30½ lks. dist., mkd. T14S R18E S36 BT.</p> <p style="padding-left: 40px;">This control line was fully retraced and careful search was made for evidence of intervening corners, none of which was recovered.</p>
	<p>North, bet. secs. 27 and 28, along the E. bdy. of Saguaro National Monument.</p>
	<p>Ascend over SE slope, through scattered timber and light undergrowth.</p>
18.60	<p>Spur, slopes NE; desc. over N. slope.</p>
39.75	<p>Wash, 5 lks. wide, drains E.; asc. over steep S. slope.</p>
40.00	<p>Point for the ¼ sec. cor. of secs. 27 and 28, at record bearing and distance; there is no remaining evidence of the original cor.</p>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E ¼ S 28 S 27 1977</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p> <p>Ascend over steep S. slope.</p>
45.00	Spur, slopes E.; desc. steep N. slope.
49.00	Turkey Creek, 15 lks. wide, course SE; asc. over S. slope.
72.50	Ridge, bears E. and W.; desc. over steep N. slope.
73.30	Point for a witness point on line bet. secs. 27 and 28.
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 18 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">W P T14S R18E S 28 S 27 1977</p> <p>Raise a mound of stone, 2 ft. base, 2 ft. high, W. of the cor.</p>
73.40	Foot trail, 4 lks. wide, bears E. and W.
74.00	Begin steep descent over N. slope, through dense undergrowth.
80.00	Point for the cor. of secs. 21, 22, 27 and 28, at record bearing and distance; there is no remaining evidence of the original cor.
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 7 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E S 21 S 22 S 28 S 27 1977</p> <p>Raise a mound of stone, 2 ft. base, 2 ft. high, W. of the cor.</p>
	<p>North, bet. secs. 21 and 22, along the E. bdy. of Saguaro National Monument.</p> <p>Descend over steep N. slope, through scattered timber and moderate undergrowth.</p>
9.00	Bottom of descent, slopes E.; asc. gentle S. slope.
18.00	Bear Creek, 25 lks. wide, course SE; continue asc. S. slope.

Dependent Resurvey, Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22, at record bearing and distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 7 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E $\frac{1}{4}$ S 21 S 22 1977</p> <p>Raise a mound of stone, 2 ft. base, 2 ft. high, W. of the cor.</p>
<p>Portion of the East Boundary T. 14 S., R. 17 E., Gila and Salt River Meridian, Arizona</p>	
	<p>From the cor. of Tps. 13 and 14 S., Rs. 17 and 18 E., monumented with an iron post, 3 ins. diam., firmly set in a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, with brass cap mkd.</p> <p style="text-align: center;">T13S R17E R18E S 36 S 31 S 1 S 6 T14S 1921</p> <p>from which the remains of the bearing trees mkd. in 1921</p> <p>A juniper, 10 ins. diam., bears S. $63\frac{1}{2}^\circ$ E., 87 lks. dist., with scribed marks. 18E S6 BT visible on partially healed blaze. (Record, oak, S. 66° E.).</p> <p>and new bearing trees</p> <p>An oak, 10 ins. diam., bears N. $3\frac{1}{4}^\circ$ E., $42\frac{1}{2}$ lks. dist., mkd. T13S R17E S36 BT.</p> <p>A juniper, 14 ins. diam., bears S. $26\frac{3}{4}^\circ$ W., 63 lks. dist., mkd. T14S R17E S1 BT.</p> <p>No other suitable bearing trees within limits.</p> <p>South, along the E. bdy. of sec. 1.</p> <p>Descend over SW slope, through scattered timber and light undergrowth.</p>
0.30	Ravine, drains SW; asc. over NW slope.
16.00	Spur, slopes W.; desc. over SW slope.
22.29	True point for the $80\frac{1}{16}$ sec. cor. of secs. 1 only, falls on the edge of a small vertical cliff where it is impracticable to establish a permanent monument.
22.37	<p>Point selected for the witness cor. to the $80\frac{1}{16}$ sec. cor. of sec. 1 only.</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 4 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 4 ft. base, to top, with brass cap mkd.</p>

Portion of the East Boundary
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T14S R17E R18E W C 1/16' ↑ S 1 80 1977</p>
27.00	Ravine, drains WNW; asc. over NW slope.
62.29	<p>Point for the ¼ sec. cor. of secs. 1 only.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 12 ins. in the ground, supported with a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R17E R18E ¼ S 1 1977</p> <p>Continue ascending over NW slope, through scattered timber and dense undergrowth.</p>
72.30	Spur, slopes W.; desc. over SW slope.
80.60	Ravine, drains W.; asc. over NW slope.
90.57	Point for the closing cor. of secs. 6 and 7, T. 14 S., R. 18 E., hereinafter described.
102.29	<p>Point for the cor. of secs. 1 and 12 only, determined from the protraction diagram No. 69-69A, approved June 23, 1960.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T14S R17E R18E S 1 S 12 S 7 1977</p> <p>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor.</p> <p>Cor. is located on a spur, slopes N.</p> <p>Land, mountainous. Soil, rocky clay. Timber, oak and juniper; undergrowth, manzanita, scrub oak, and cacti.</p>
	<p style="text-align: center;">Portion of the Subdivisional Lines T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona</p>
	<p>From the ¼ sec. cor. of secs. 21 and 22, hereinbefore described.</p> <p>N. 0° 02' W., bet. secs. 21 and 22, along the E. bdy. of Saguaro National Monument.</p>

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Ascend over S. slope, through scattered timber and light undergrowth.
5.00	Spur, slopes E.; desc. over NE slope.
16.00	Deer Creek, 15 lks. wide, course SE; asc. over SW slope.
40.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E S 16 S 15 S 21 S 22 1977</p>
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	<p>Land, mountainous. Soil, rocky clay. Timber, oak and juniper; undergrowth, manzanita, oak brush, catclaw, and cacti.</p>
	N. 0° 02' W., bet. secs. 15 and 16, along the E. bdy. of Saguaro National Monument.
	Ascend over steep and broken SE slope, through moderate timber and undergrowth.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E ¼ S 16 S 15 1977</p>
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Continue to ascend over broken SE slope.
42.70	Draw, drains SE; continue asc. over broken SE slope.
77.00	Draw, drains SE; continue asc. over broken SE slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 28 ins. long, 2½ ins. diam., 15 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3½ ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E S 9 S 10 S 16 S 15 1977</p>
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of the cor.

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, mountainous. Soil, rocky clay. Timber, pine, oak and juniper; undergrowth, manzanita, oak brush, and cacti.</p>
	<p>N. 0° 02' W., bet. secs. 9 and 10, along the E. bdy. at Saguaro National Monument.</p> <p>Ascend over steep and broken SE slope, through moderate timber and undergrowth.</p>
4.20	Spur, slopes E.; desc. over steep NE slope.
14.50	Sycamore Canyon (near the head), drains E.; asc. over steep and broken SE slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, over a cross (+) chiseled on bedrock, sup- ported with a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E ¼ S 9 S 10 1977</p>
	<p>Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of the cor.</p>
51.20	High spur, slopes NE; desc. over NE slope.
62.00	Spur, slopes NE; desc. over NW slope.
80.00	Point for the cor. of secs. 3, 4, 9 and 10, common with the NE cor. of Saguaro National Monument.
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T14S R18E S 4 S 3 S 9 S 10 1977</p>
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p> <p>This cor. is located 1 lk. W. of a boulder, 8 x 7 x 4 ft. above the surface of the ground.</p> <p>Land, mountainous. Soil, rocky clay. Timber, oak, pine and juniper; undergrowth, mahogany, scrub oak, and cacti.</p>
	<p>West, bet. secs. 4 and 9, along the N. bdy. of Saguaro National Monument.</p> <p>Descend over NW slope, through moderate timber and light undergrowth.</p>
0.70	Creek in Tres Pipas Canyon, 10 lks. wide, course N.; asc. over steep NE slope.

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
20.00	Spur, slopes NE; desc. over NW slope.
40.00	True point for the ¼ sec. cor. of secs. 4 and 9, falls in a ravine, drains ENE, where it is impracticable to establish a permanent monument.
40.18	Point selected for the witness ¼ sec. cor. for secs. 4 and 9.
	Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $\frac{1}{4}$ $\frac{S}{S} \frac{4}{9}$ → W C 1977</p>
	from which
	A fir, 11 ins. diam., bears S. 48 ¾° E., 51 lks. dist., mkd. WC ¼ S9 BT.
	A fir, 14 ins. diam., bears S. 31½° W., 92 lks. dist., mkd. WC ¼ S9 BT.
	Ascend over steep E. slope.
52.00	Spur, slopes NE: asc. over NE slope.
80.00	Point for the cor. of secs. 4, 5, 8 and 9.
	Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $\frac{S}{S} \frac{5}{8} \frac{S}{S} \frac{4}{9}$ 1977</p>
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, mountainous. Soil, rocky clay. Timber, pine, juniper, oak and fir; undergrowth, scrub oak, manzanita, and cacti.
5.57	Point for the witness point on line bet. secs. 5 and 8.
	Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E W P $\frac{S}{S} \frac{5}{8}$ 5.57 CHS 1977</p>
	West, bet. secs. 5 and 8, along the N. bdy. of Saguaro National Monument.
	Ascend over NE slope, through scattered timber and dense undergrowth.

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Cor. is located on top of a spur, slopes NNW.
	Descend over NW slope.
39.00	Ravine, drains N.; asc. over E. slope.
40.00	True point for the ¼ sec. cor. of secs. 5 and 8, falls on a rock formation, where it is impracticable to establish a permanent monument.
40.22	Point selected for the witness ¼ sec. cor. to secs. 5 and 8.
	Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $\frac{1}{4} \frac{S \ 5}{S \ 8} \rightarrow W \ C$ 1977</p>
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Ascend over NE slope.
70.60	Spur, slopes NNW; desc. over steep NW slope.
80.00	Point for the cor. of secs. 5, 6, 7 and 8.
	Set an iron post, 28 ins. long, 2½ ins. diam., 9 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $\frac{S \ 6 S \ 5}{S \ 7 S \ 8}$ 1977</p>
	Land, mountainous. Soil, rocky clay. Timber, pine, oak, fir and juniper; undergrowth, scrub oak and manzanita.
	West, bet. secs. 6 and 7, along the N. bdy. of Saguaro National Monument.
	Descend over steep NW slope, through scattered timber and dense undergrowth.
4.50	Ravine, drains NNW; asc. over NE slope.
8.60	Point for the witness point on line bet. secs. 6 and 7.
	Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3½ ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $W \ P \ \frac{S \ 6}{S \ 7} \ 8.60 \ CHS$ 1977</p>

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Cor. is located on top of a spur, slopes NNW.
	Descend over NW slope.
12.80	Ravine, drains N.; asc. over broken NE slope.
17.48	Point for the witness point on line bet. secs. 6 and 7.
	Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E W P $\frac{S 6}{S 7}$ 17.48 CHS 1977</p>
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
17.80	Foot trail, 4 lks. wide, bears NW and SE.
40.00	Point for the ¼ sec. cor. of secs. 6 and 7.
	Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, over a cross (+) chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E $\frac{1}{4} \frac{S 6}{S 7}$ 1977</p>
	Raise a mound of stone, 2 ft. base, 2 ft. high, N. of the cor.
47.00	Spur, slopes N.; desc. over steep broken NW slope.
80.00	Point for the 80 1/16 sec. cor. of secs. 6 and 7.
	Set an iron post, 28 ins. long, 2½ ins. diam., 12 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.
	<p style="text-align: center;">T14S R18E 1/16 $\frac{S 16}{S 7}$ 80 1977</p>
84.50	Point for the witness point on line bet. secs. 6 and 7.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T14S R18E W P $\frac{S 6}{S 7}$ 84.50 CHS 1977</p>
	Raise a mound of stone, 2 ft. base, 2 ft. high, N. of the cor.
	Cor. is located on top of a spur, slopes NW.
	Descend over rocky W. slope.
88.00	Ravine, drains NNW; asc. over NE slope.

Portion of the Subdivisional Lines
T. 14 S., R. 18 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p> <p>93.00</p> <p>95.11</p>	<p>Spur, slopes N.; desc. over NW slope.</p> <p>Intersect the E. bdy. of T. 14 S., R. 17 E., and point for the closing cor. of secs. 6 and 7.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., over a cross (+) chiseled on bedrock, supported with a mound of stone, 4½ ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T14S R17E R18E S 1 $\frac{S\ 6}{S\ 7}$ — C C 1977</p> </div> <p>Cor. is located in a small clearing on a gently NW slope.</p> <p>From this point, the cor. of secs. 1 and 12 only, T. 14 S., R. 17 E., bears South, 11.72 chs. dist., hereinbefore described.</p> <hr/> <p style="text-align: center;"><u>GENERAL DESCRIPTION</u></p> <p>The lands included in the notes of the foregoing survey are located approximately 35 miles east of Tucson, Arizona, and on the slopes of the Rincon Mountains. The area is drained by Turkey Creek, Miller Canyon, Deer Creek, Bear Creek, and Tres Pipas Canyon, and a number of their tributaries. Elevations range from about 4150 feet above sea level near the southeast corner of the township to about level near the southeast corner of the township to above 7000 feet above sea level near the corner of sections 4, 5, 8 and 9. The only way into the area is by pack trails.</p> <p>Soil in the area is rocky clay, varying from a few inches to several feet in depth. There are many bluffs and outcroppings along the lines surveyed.</p> <p>Timber consists of pine, juniper, oak, and fir; with undergrowth of scrub oak, manzanita, mahogany, cacti, and native grasses.</p> <p>No mineral deposits were noted during the course of the survey.</p> <p>The average of a number of readings throughout the area gives a value of 13½° E., for the mean magnetic declination. There is a range of 2° in local attraction.</p>
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Form 9180-8
(March 1969)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Lucious L. Burns	Surveying Aid
Caleb C. Costin	Surveying Aid
Victor E. Templeton	Surveying Aid
Richard P. Godesiabois	Surveying Aid
Bruce G. Cartwright	Surveying Aid
William C. Gabonay	Surveying Aid

CERTIFICATE OF SURVEY

~~(I)~~(We), Leonard W. Murphy and Kenneth A. Krenke, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 18th day of January, 1972, ~~(I)~~(We) ~~have~~ amended special instructions dated December 3, 1976, we have dependently resurveyed a portion of the south boundary and subdivisional lines and surveyed a portion of the west boundary and subdivisional lines, which is a portion of the east and north boundary of Saguaro National Monument, Township 14 South, Range 18 East,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by ~~(me)~~, (us) and under ~~(my)~~ (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.

May 4, 1977

 (Date)

Leonard W. Murphy

 (Cadastral Surveyor)
 Leonard W. Murphy

May 4, 1977

 (Date)

Kenneth A. Krenke

 (Cadastral Surveyor)
 Kenneth A. Krenke

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
 Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the south boundary and subdivisional lines, and the survey of a portion of the west boundary and subdivisional lines, which is a portion of the east and north boundary of Saguaro National Monument, T. 14 S., R. 18 E., of the Gila and Salt River Meridian, Arizona,

executed by Leonard W. Murphy and Kenneth A. Krenke, Supervisory Cadastral Surveyors having been critically examined and found correct, are hereby approved.

JUN 21 1977

 (Date)

Bernard W. Fisher

 (Chief, Division of Cadastral Survey)

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, Division of Cadastral Survey) GPO 849-626