

Form 9180-6
(March 1977)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE
DEPENDENT RESURVEY OF A
PORTION OF THE SUBDIVISIONAL LINES
WHICH IS A PORTION OF THE NORTH BOUNDARY
OF THE SAGUARO NATIONAL MONUMENT
TOWNSHIP 14 SOUTH, RANGE 16 EAST

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

EXECUTED BY

LEONARD W. MURPHY SUPERVISORY CADASTRAL SURVEYOR

Under special instructions dated JANUARY 17, 19 75, approved JANUARY 20, 1975

_____, which provided for the surveys included under ~~U.S. Survey~~ Group
Number 570, and assignment instructions dated JANUARY 13, 19 75.

Survey commenced JANUARY 31, 19 75

Survey completed JANUARY 31, 19 75

1A

BOOK 5 108

INDEX DIAGRAM

Township 14 South, Range 16 East

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1B

T. 14 S., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, which is a portion of the north boundary of the Saguaro National Monument, Township 14 South, Range 16 East of the Gila and Salt River Meridian, Arizona.

A portion of the subdivisional lines were surveyed by Philip Contzen in 1897. A portion of the subdivisional lines within the abandoned Camp Lowell Military Reservation were surveyed by Philip Contzen in 1900. A portion of the subdivisional lines were dependently resurveyed and surveyed by Dupree R. Averill in 1930.

This survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated January 17, 1975, for Group No. 570, 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 records. Identified corners were remonumented in their original positions. The retrace-ment data were thoroughly verified and only the true line field notes are given herein.

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

The geographic position of the corner of sections 8, 9, 16, and 17, as determined from a tie to the point for the U. S. Coast and Geodetic Survey triangulation station, "SAGUARO NO. 2 USFS," 1936, is as follows:

Latitude 32° 13' 15" N., Longitude 110° 43' 13" W.

The mean magnetic declination is 13° East.

Dependent Resurvey, Portion of the Subdivisional Lines
T. 14 S., R. 16 E., Gila and Salt River Mer., Arizona

Restoring the survey executed by Philip Contzen
in 1897, and the resurvey by Dupree R. Averill in 1930

Beginning at the cor. of secs. 2 and 11 only, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, in a collar of stone, with a scattered mound of stone W., with brass cap mkd.

T14S R16E
 $\frac{S\ 2}{S\ 11} | S\ 1$

1930

Rebuild the mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Cor. is located at a cor. of fences extending N., S., E., and W.

Dependent Resurvey, Portion of the Subdivisional Lines
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CHAINS		
	<p>From this point, the cor. of secs. 1 and 12 only, bears S. 0° 03' W., 0.64 chs. dist., monumented with an iron post, 2 ins. diam., firmly set, projecting 5 ins. above ground, in a collar of stone, with brass cap mkd.</p>	
	<p style="text-align: center;">T14S R16E S 11 $\frac{S 1}{S 12}$</p>	
	<p style="text-align: center;">1930</p>	
	<p>N. 89° 58' W., on the S. bdy. of sec. 2. along the N. bdy. of Saguaro National Monument.</p>	
	<p>Over rolling land, along a fence, bears E. and W.</p>	
28.00	<p>Enter wash, 70 lks. wide, drains WSW.</p>	
33.00	<p>Leave wash, edge bears ENE and WSW; thence over nearly level land.</p>	
39.66	<p>The $\frac{1}{4}$ sec. cor. of sec. 2 only, monumented with an iron post, 1 in. diam., firmly set, projecting 3 ins. above ground, with a scattered mound of stone N., with brass cap mkd.</p>	
	<p style="text-align: center;">$\frac{1}{4}$ S 2</p>	
	<p style="text-align: center;">1930</p>	
	<p>Rebuild the mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p>	
	<p>Cor. is located in a fence, bears E. and W.</p>	
	<p style="text-align: center;">_____</p>	
	<p>S. 89° 58' W., beginning new measurement.</p>	
0.32	<p>The $\frac{1}{4}$ sec. cor. of sec. 11 only, monumented with an iron post, 1 in. diam., firmly set in a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p>	
	<p style="text-align: center;">$\frac{1}{4}$ S 11</p>	
	<p style="text-align: center;">1930</p>	
	<p>Cor. is located in a fence, bears E. and W.</p>	
21.85	<p>Wash, 30 lks. wide, drains NW.</p>	
39.96	<p>The cor. of secs. 2, 3, 10 and 11, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd.</p>	
	<p style="text-align: center;">T14S R16E S 3 S 2 S 10 S 11</p>	
	<p style="text-align: center;">1930</p>	
	<p>from which</p>	

Dependent Resurvey, Portion of the Subdivisional Lines
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CHAINS

An iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 25 ins. in the ground, for a reference monument, bears S. $44\frac{1}{2}^\circ$ E., 40.0 ft. dist., with brass cap mkd. S11 RM 40.0 FT. 1975 and an arrow pointing to the cor.

A steel rod, $\frac{1}{2}$ in. diam., firmly set, projecting 4 ins. above ground, bears S. $46\frac{1}{4}^\circ$ W., 160 lks. dist. This rod was set by the Pima County Engineer's Department.

An iron pipe filled with concrete, 5 ins. diam., used as a fence cor., bears N $39\frac{1}{2}^\circ$ W., $75\frac{1}{2}$ lks. dist., fences extend S. and E.

From the cor. of secs. 8, 9, 16 and 17, determined from ties that are of record in the County Courthouse. This point was perpetuated by the Pima County Engineer's Department when evidence of the original cor. was still in existence, has been recognized as the cor. by local landowners and private surveyors for many years and is accepted as the best available evidence of the original cor. position. From which reference monuments established by the Pima County Engineer's Department:

A steel rod, $\frac{1}{2}$ in. diam., firmly set, projecting 3 ins. above ground, bears S. 53° W., $151\frac{1}{2}$ lks. dist.

A steel rod, $\frac{1}{2}$ ins. diam., firmly set, projecting 1 in. above ground, bears N. $89^\circ 54'$ W., $151\frac{1}{2}$ lks. dist.

A nail with washer driven in a paloverde, 5 ins. diam., bears N. $36\frac{1}{2}^\circ$ W., 179 lks. dist.

At the corner point

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 25 ins. in the ground, in concrete, with brass cap mkd.

T14S R16E
S 8 S 9
S 17 S 16

1975

from which

An iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 25 ins. in the ground, for a reference monument, bears S. $50\frac{3}{4}^\circ$ E., 30.0 ft. dist., with brass cap mkd. S16 RM 30.0 FT. 1975 and an arrow pointing to the cor.

N. $0^\circ 08'$ E., bet. secs. 8 and 9.

Over level land, along a fence, bears N. and S.

Dependent Resurvey, Portion of the Subdivisional Lines
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CHAINS		
40.16	<p>The $\frac{1}{4}$ sec. cor. of secs. 8 and 9, perpetuated by person(s) unknown, monumented with an iron pipe, $\frac{1}{2}$ in. diam., firmly set, projecting 3 ins. above ground. This point has been recognized as the cor. by local landowners and private surveyors for many years, and is accepted as the best available evidence of the original cor. position.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 25 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T14S R16E $\frac{1}{4}$ S 8 S 9 1975</p> <p>from which</p> <p>An iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 24 ins. in the ground, in concrete, for a reference monument, bears N. $45\frac{1}{2}^\circ$ E., 33.0 ft. dist., with brass cap mkd. S9 RM 33.0 FT. 1975 and an arrow pointing to the cor.</p> <p>An iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 24 ins. in the ground, in concrete, for a reference monument, bears S. $42\frac{1}{2}^\circ$ E., 30.0 ft. dist., with brass cap mkd. S9 RM 30.0 FT. 1975 and an arrow pointing to the cor.</p> <p>Reset iron pipe alongside iron post.</p> <p>Cor. is located in a fence, bears N. and S. and in line with a dirt road to the W.</p>	
39.95	<p>S. edge of East Speedway Boulevard, paved, 40 lks. wide, bears E. and W.</p>	
40.11	<p>The cor. of secs. 4, 5, 8, and 9, perpetuated by the Pima County Engineer's Department, monumented with a railroad spike, firmly set flush with the surface of the road. This point has been recognized as the cor. by local landowners and private surveyors for many years and is accepted as the best available evidence of the original cor. position, from which reference monuments established by the Pima County Engineer's Department:</p> <p>A spike with washer driven into a paloverde, 27 ins. diam., bears N. $40\frac{1}{4}^\circ$ E., 137 lks. dist.</p> <p>A spike in a power pole, bears S. $61\frac{1}{2}^\circ$ E., 84 lks. dist.</p> <p>A spike with washer driven in a mesquite, 10 ins. diam., bears N. $29\frac{1}{2}^\circ$ W., 81 lks. dist.</p>	

Dependent Resurvey, Portion of the Subdivisional Lines
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CHAINS

and a new reference monument.

Set an iron post, 28 ins. long, 2½ ins. diam., set 24 ins. in the ground, bears S. 46¼° E., 65.0 ft. dist., with brass cap mkd. S9 RM 65.0 FT 1975 and an arrow pointing to the cor.

Cor. is located at the intersection of East Speedway Boulevard, bears E. and W., and Wentworth Road, a dirt road, bears N.

S. 89° 55' W., bet. secs. 5 and 8, along the N. bdy. of Saguaro National Monument.

Over level land, along the center of East Speedway Boulevard, bears E. and W.

40.23 The ¼ sec. cor. of secs. 5 and 8, perpetuated by Pima County Engineer's Department, monumented with an iron post, 2½ ins. diam., firmly set flush with the surface of the road, with brass cap mkd.

PED
¼ 5
 8

This point has been recognized as the cor. by local land-owners and private surveyors for many years and is accepted as the best available evidence of the original cor. position, from which reference monuments established by the Pima County Engineer's Department:

A rebar, ½ in. diam., firmly set, projecting 2 ins. above ground, bears N. 44° 11' E., 64½ lks. dist.

A rebar, ½ in. diam., firmly set, projecting 2 ins. above ground, bears S. 45° 49' E., 64 lks. dist.

A rebar, ½ in. diam., firmly set, projecting 2 ins. above ground, bears S. 43° 41' W., 63½ lks. dist.

A rebar, ½ in. diam., firmly set, projecting 2 ins. above ground, bears N. 41° W., 64½ lks. dist.

Cor. is located in the center of East Speedway Boulevard, bears E. and W.

S. 89° 56' W., beginning new measurement.

Continue along East Speedway Boulevard, bears E. and W.

40.18 The cor. of secs. 5, 6, 7, and 8, perpetuated by the Pima County Engineer's Department, monumented with an iron post, 2½ ins. diam., firmly set flush with the surface of the road, with brass cap mkd.

T14S R16E
PED
6|5
—|—
7|8

Dependent Resurvey, Portion of the Subdivisional Lines
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This point has been recognized as the cor. by local landowners and private surveyors for many years and is accepted as the best available evidence of the original cor. position, from which reference monuments established by the Pima County Engineer's Department:

A rebar, $\frac{1}{2}$ in. diam., firmly set, projecting 2 ins. above ground, bears N. $47^{\circ} 44'$ E., 58 lks. dist.

A spike in a power pole, bears S. $41^{\circ} 37'$ W., $51\frac{1}{2}$ lks. dist.

and a new reference monument

The center of a Bell Telephone pedestal, bears N. $6^{\circ} 24'$ E., 45 lks. dist.

From this point, reference monument No. 2 for the U. S. C. and G. S. triangulation station Saguaro No. 2 USFS, bears N. $37^{\circ} 30'$ E., 0.62 chs. dist., monumented with a standard bronze disk, firmly set in a concrete form, 5 ins. square, with top mkd. SAGUARO NO 2 FS 1936 and an arrow pointing to the triangulation station.

From this same point, the point for U. S. C. and G. S. triangulation station Saguaro No. 2 USFS, as determined from published tie to R.M. No. 2, bears S. $29^{\circ} 57'$ E., 1.53 chs. dist. No evidence of the monument was recovered. Published geodetic position of this station is:

Latitude $32^{\circ} 14' 06.498''$ N., Longitude $110^{\circ} 44' 14.171''$ W.

Cor. is located at the intersection of East Speedway Boulevard, bears E. and W., and Freeman Road, paved to the N. and dirt to the S., bears N. and S.

General Description

The lands included in the field notes of this survey are located about 14 miles southeast of Tucson, Arizona. The area is drained by the tributaries of Tanque Verde Creek. The average elevation along the lines resurveyed is about 2930 feet above sea level.

Access into the area is by way of East Speedway Boulevard and a few dirt roads which branch from it.

Soil in the area is composed of rocky clay and sandy loam varying from a few inches to several feet in depth. Timber consists of paloverde and mesquite; with undergrowth of greasewood, catclaw, and cactus.

The major portion of the land is being developed into homesites. No mineral deposits were noted during the course of the survey.

The mean magnetic declination is 13° East.

CERTIFICATE OF SURVEY

(I) ~~XXXX~~ Leonard W. Murphy, HEREBY

CERTIFY upon honor that, in pursuance of special instructions bearing date of the 17th day of January, 1975, (I) ~~XXXX~~ have dependently resurveyed a portion of the subdivisional lines, which is a portion of the north boundary of the Saguaro National Monument, Township 14 South, Range 16 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), ~~XXXX~~ and under (my) ~~XXXX~~ 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.

December 11, 1978
(Date)

Leonard W. Murphy
Supervisory (Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
~~Washington, D.C.~~
Denver, Colorado

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, which is a portion of the north boundary of the Saguaro National Monument, Township 14 South, Range 16 East, of the Gila and Salt River Meridian, Arizona,

executed by Leonard W. Murphy, Supervisory Cadastral Surveyor having been critically examined and found correct, are hereby approved.

FEB 06 1980
(Date)

J. [Signature]
(Chief, Division of Cadastral Survey)
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 [blank], is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief, Division of Cadastral Survey)~~ GPO 849-626