

4293

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

BOOK 4292

BOOK 4293

FIELD NOTES

OF THE

METES AND BOUNDS SURVEY OF A PRIVATE CLAIM,

THE SUBDIVISION OF SECS. 10 AND 15,

AND

RESURVEYS OF BOUNDARIES OF SECTIONS 9, 10, 15 AND 16,

OF

TOWNSHIP 14 SOUTH , RANGE 13 EAST,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Benjamin J. Kinsey, Associate Cadastral Engineer

General Land Office

Under special instructions dated March 10, 1942, which provided  
for the surveys included under Group No. 233, bearing the approval of the  
Commissioner of the General Land Office under date of March 19, 1942  
and assignment instructions dated December 20, 1941.

Survey commenced February 9, 1942

Survey completed July 9, 1942

4293

233  
1A  
BOOK 4293

# INDEX DIAGRAM.

Township 14 South, Range 13 East

6	5	4	3	2	1
		17'	13'		
7	8	15' 9' 12'	19' 10'	4	11
			18' 37'		
			9' 20' 20'		
18	17	14	29' 31' 30'		
			29' 30'	2	14
			27'		
			28'		
		6	7		
19	20	21	22	23	24
28	29	28	27	26	25
31	32	33	34	35	36

6-161

The surveys and resurveys herein described were executed with Buff light mountain transit, Serial No. 18000, constructed in accordance with the standard specifications of the General Land Office. The instrument is equipped with full vertical circle and the improved Smith solar attachment, and was approved by the district cadastral engineer on December 20, 1941, conditional upon satisfactory field tests. All of the instrumental adjustments were examined before making the field tests hereinafter described.

The directions of the lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chs. in length, graduated every link for the first 100 lks.; and thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained with the transit or a clinometer in good adjustment. The horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographical position of the SE. cor. of sec. 15, T.14 S., R.13 E., G. & S.R.M., Ariz., as follows: latitude  $32^{\circ}12'N.$  and longitude  $111^{\circ}00'W.$

Feb. 7, 1942, at camp near the center of sec. 28 of this township, at 10h 31m p.m., l.m.t., observe Polaris at western elongation, making four observations; two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, by a tack set in top of a peg driven firmly in the ground, about 5 chs. north.

February 8th: after sunrise, lay off the azimuth of Polaris,  $1^{\circ}12'$  to the east, and mark the meridian thus determined by a tack set in top of a peg, driven firmly in the ground, about 5 chs. north.

At 9h 0m a.m., app.t., set off  $32^{\circ}11'N.$  on the lat. arc,  $15^{\circ}00'S.$  on the decl. arc and determine a meridian with the solar which agrees with the true meridian.

At app. noon, with lat. arc unchanged, observe the sun on the meridian; the resultant reading of the declination arc is  $14^{\circ}58'S.$ , which agrees with the computed declination of the sun.

At 3h 0m p.m., app.t., with lat. arc unchanged, set off  $14^{\circ}56'S.$  on the decl. arc and determine a meridian with the solar which agrees with the true meridian.

As all of the observations taken during the usual hours of solar work agree within  $1'$  of the true meridian, conclude that the instrument is in satisfactory adjustment.

Preliminary to the resurvey, the lines of the original survey are retraced and diligent search is made for all original corners. Identified corners of the original survey are restored in their original positions and missing corners are reestablished at proportional points based on the record of the original survey, or at points controlled by accepted property lines. The retracement data are thoroly verified and only true line notes are given herein.

Resurvey of a Portion of the Subdivisional Lines  
of  
T.14 S., R.13 E.

chains

Resurvey of boundaries of sections, 9,10,15 and 16.

Reestablishment of surveys executed by S.W. Foreman, Deputy Surveyor, in 1871, and resurveyed in part by W.E. Hiester, Surveyor, in 1931.

The cor. of secs. 14,15,22 and 23, is evidenced by an iron post,  $1\frac{1}{2}$  in. diam., 12 ins. above ground, firmly set in a mound of stone, with iron cap properly mkd.; set by Paul E. Fernald, registered engineer, in 1929 and accepted by the property owners.

Remove iron cap from post, which apparently is several feet long, firmly set in concrete, fill inside of open pipe with cement and in place of iron cap set a brass tablet,  $3\frac{1}{2}$  ins. diam., 3 in. stem, with cement surrounding same, for cor. of secs. 14,15,22 and 23, mkd.

T14S R13E  
S 15 | S 14  
S 22 | S 23

1943

N.0°29'W., on true line bet. secs. 14 and 15.

Over mountainous land, thru scattering undergrowth.

Asc. 273 ft. over S. slope to ridge.

7.80 Oiled road, bears NE. and SW.

9.56 Intersect an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with metal cap mkd.

EAST BDY. CITY OF TUCSON  
U LAND

10.60 Edge of ridge top, bears E. and W.; cross nearly level land, used as parking area for automobiles.

11.50 Summit of ridge, bears E. and W.; begin slight descent over N. slope.

13.00 Oiled road, bears E. and W.; desc. 306 ft. over rocky N. slope, to wash.

15.30 Oiled road, bears E. and W.

39.40 Wash, 20 lks. wide, course NE.; asc. 8 ft. over SE. slope.

40.19 The  $\frac{1}{4}$  sec. cor., as evidenced by an iron post, 2 ins. diam., 12 ins. above ground, firmly set in cement, with metal cap properly mkd, set by Paul E. Fernald, registered engineer, in 1929, and accepted by the property owners.

At point for corner,

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with old post deposited at the base, and in a mound of stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 15 | S 14

1942

Resurvey of a Portion of the Subdivisional lines  
of  
T. 14 S., R. 13 E.

Chains

Asc. gradually over SE slope.

46.90 Oiled road, bears NE and SW.

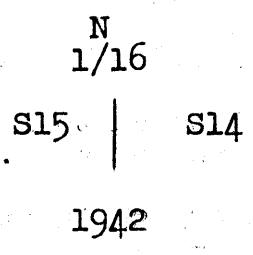
55.20 Spur, slopes NE. Desc. gradually over NW slope.

58.89 Wash, 30 lks. wide, course E. Asc. 10 ft. over S. slope.

60.29 The N 1/16 sec. cor., as evidenced by a carriage bolt set flush with the ground and stamped N 1/16 on head, set in 1942 by E.R. Sievers, Associate C.E. in charge of surveys for the Forest Service.

At point for corner,

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with carriage bolt deposited at the base, and in a mound of stone to top for N 1/16 sec. cor. with brass cap mkd.



60.59 Telephone line, bears E. and W. (W. about 1 ch., then S.)

67.06 House on line.

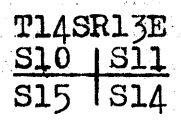
70.20 House on line.

73.20 House on line.

80.38 The cor. of secs. 10, 11, 14, and 15, as evidenced by an iron post 1 1/2 ins. diam., firmly set flush with ground, with metal cap properly mkd., set by Paul E. Fernald, registered engineer, in 1929 and accepted by property owners.

At point for corner,

Set a brass tablet, 3 1/2 ins. diam., 3 in. stem, in a tile pipe 8 ins. long and 8 ins. diam., placed in the ground over the old cor. pipe and filled with cement, for cor. of secs. 10, 11, 14, and 15, with top mkd.



1942

from which

N.W. edge of a house, bears S.43°E., 43 lks. distant.

S.E. edge of large rock corner of yard, bears N.45°W., 63 1/2 lks. distant.

Water tank of El Rio Park tract, bears N.10°E.

Tucson water tank, bears N.50°50'E.

High, rocky peak in the Catalinas, bears N.37°57'E.

Resurvey of a Portion of the Subdivisional lines  
 of  
 T.14 S., R.13 E.  
 4 BOOK 4293

Chains	<p>Land, S<math>\frac{1}{2}</math> mountainous; N<math>\frac{1}{2}</math> slightly rolling.                      Soil, rocky 4th. rate.                      Timber, confined to shade trees around houses in this vicinity.                      Undergrowth, greasewood, cacti, and scrub palo verde.</p>
N.0°38'W., on true line, bet. secs. 10 and 11.	<p>Over slightly rolling land, through scattering undergrowth.                      Desc. gradually over NE slope.</p>
Road, bears E. and W., intersects Congress Place 40 lks. west; continue along east edge of latter street and thru Menlo Park, a subdivision of the City of Tucson.	
7.00	Leave slightly rolling, enter level land, bears NW and SE.
7.65	Center of Silver Bell Ave., bears N.29°W. and S.29°E.
8.35	Record distance to Post 91 of T.F. Whites survey of 1876; no evidence of same.
8.90	Center of Franklin street, bears N.84°18'E. and S.84 $\frac{1}{2}$ °W. Offset east, 2.64 chs. to avoid houses on line ahead.
17.34	Center of Fresno street, bears N.84°18 $\frac{1}{2}$ 'E. and S.84 $\frac{1}{2}$ '°W.
17.60	Power line, bears N.84°18 $\frac{1}{2}$ 'E. and S.84 $\frac{1}{2}$ '°W.
19.00	Offset west to true line.
20.06	<p>Proportional distance; set an iron post 3 ft. long, 1 in. diam., 32 ins. in the ground, with an iron pipe, 1<math>\frac{1}{2}</math> ins. diam., 12 ft. long, with metal cap mkd. X GLO deposited at the base, for S.1/16 sec. cor., with brass cap mkd.</p>
	<p style="text-align: center;">S                      1/16</p> <p>To protect this corner monument, heavy traffic which is heavy in this area, raise a mound of stone about post. In view of the heavy traffic in this immediate area to further protect this corner monument, raise a mound of stone 6 ft. base, 1 ft. high about post.</p>
	<p>From corners. end of St. Marys Hospital (new bldg.) bears N.60°53'W.</p>
	<p>The center pipe of high water tank about <math>\frac{3}{4}</math> mi. distant bears N.0°39'E.</p>
	<p>A cross on the south end of St. Marys Hospital, (new building) bears N.60°53'W.</p>

Resurvey of a Portion of the Subdivisional lines of T.14 S., R.13 E.

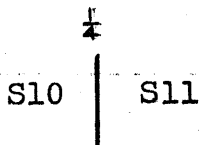
Chains

Chimney at NE cor. of the Pioneer Hotel, bears S.80° 40'E.

40.12 The 1/4 sec. cor., as evidenced by an iron post 3 ft. long, 1 1/2 ins. diam., firmly set, projecting 8 ins. above the ground and ball of concrete about base, with metal cap properly mkd., set by Paul E. Fernald, registered engineer, in 1929 and accepted by property owners.

At point for corner,

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., with old cor. post deposited at the base, for 1/4 sec. cor., with brass cap mkd.



1942

from which

S.E. cor. of main office of Desert Laboratory, bears S.71 1/2°W.

El Rio Park water tank, bears N.1°05'E.

Stone hut on "A" mountain ridge, bears S.5°20'W.

43.10 Center of St. Marys street, bears N.84°E. and S.84°W.

43.60 Power line, bears N.84°E. and S.84°W.

Continue along Cuesta Ave., of El Rio Park subdivision, through improved area.

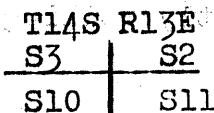
79.00 Center of West Speedway road, bears E. and W.

79.60 Hedge, bears E. and W.; enter Country Club grounds.

80.12 The cor. of secs. 2, 3, 10, and 11, as evidenced by an iron pipe, 1 1/2 ins. diam., 8 ins. below surface, in the grounds of the El Rio Gountry Club. Data for the location of this cor. was obtained from the records of the Tucson City Engineers office.

At point for corner,

Set a brass tablet, 3 1/2 ins. diam., 3 in. stem, in top of old corner pipe, which is filled with fresh cement and spread a ten inch apron of same about tablet to insure permanency, for cor. of secs. 2, 3, 10, and 11, with marks on same to read:



1942

from which

Resurvey of a Portion of the Subdivisional lines  
of  
T. 14 S., R. 13 E.

Chains

Water tank of El Rio Park subdivision, bears S.5°20'E.

S.E. cor. of St. Marys Hospital, bears S.26°40'W.

A corner of the El Rio clubhouse, bears N.38°23'W.,  
75 lks. dist.

A corner of the El Rio club house, bears N.69°W.,  
73 lks. dist.

Land, level. Soil, sandy and black loam, 2nd. rate.  
Timber, some small mesquite grows on S½ of mile.  
Undergrowth, cacti; and other grassy growth on N½ of mile.

In 1931, W.E. Hiester, Surveyor, reestablished the cor. of  
secs. 16, 17, 20, and 21, using as control to the east  
the ¼ sec. cor. of secs. 16 and 21 but omitting topograp  
hy on this half mile.

From cor. of secs. 16, 17, 20, and 21, as evidenced by an  
iron pipe, 2 ins. diam., 12 ins. above ground, firmly  
set, with brass cap mkd. and witnessed as described in  
the official records

S.89°56'E., on true line, bet. secs. 16 and 21.

Over slightly rolling land, through scattering timber  
and undergrowth.

5.75 Wash, 20 lks. wide, course SE.

10.00 Spur, slopes SE.

19.90 Corner of fences from S. to S.89°56'E.

26.50 Wash, 70 lks. wide, course NE.

30.90 Spur, slopes NE.

39.50 Road; bears N. and S. (Natural gas line bears N. and S.  
along E. side of road.)

39.95 The ¼ sec. cor., as evidenced by an iron post 1 in. diam.,  
firmly set, projecting 12 ins. above ground, with brass  
cap properly marked and witnessed as described in the  
official records

Corner is at intersection of fences from E., W., and N.

Continue same course and measurement.

Over slightly rolling land, through scattering under-  
growth.



Resurvey of a Portion of the Subdivisional lines  
of  
T. 14 S., R. 13 E.

7

## Chains

Along wire fence.

49.15 Wash, 20 lks. wide, course N.

50.95 Spur, slopes N.

59.55 Wash, 10 lks. wide, course N.

69.95 Spur, slopes SW.

80.13 The cor. of secs. 15, 16, 21 and 22, as evidenced by an iron post, 2 ins. diam., 12 ins. above ground, firmly set in a mound of stone, with metal cap properly marked, set by Paul E. Fernald, registered engineer, in 1929 and accepted by the property owners.

Set a brass tablet,  $3\frac{1}{2}$  ins. diam., 3 in. stem, in the end of old pipe with cap removed and filled with cement, for cor. of secs. 15, 16, 21 and 22, with top marked.

T14S	R13E
------	------

S 16	S 15
------	------

S 21	S 22
------	------

1942

of stone, 4 ft. base, 2 ft. high, W. of cor. raise a mound

Land, slightly rolling.

Soil, stony 4th. rate.

Timber, palo verde and mesquite.

Undergrowth, greasewood, cacti, catclaw and sahuaro.

From cor. of secs. 14, 15, 22, and 23.

N.89°56'W., on true line, bet. secs. 15 & 22.

Over rolling land, thru scattering undergrowth.

4.92 Spur, slopes S.

24.16 Old road, bears N. and S.

25.06 Wash, 20 lks. wide, course S.

27.36 Road, bears N. and S.

40.26 The  $\frac{1}{4}$  sec. cor., as evidenced by an iron post  $1\frac{1}{2}$  ins. diam., firmly set, projecting 12 ins. above ground, the unmarked accepted by the property owners, set by Paul E. Fernald, registered engineer, in 1929.

Remove the iron pipe and in same place set a brass tablet  $3\frac{1}{2}$  ins. diam., with 3 in. stem in a pool of cement about 16 ins. square and 10 ins. deep, with old cor. pipe deposited at base, for  $\frac{1}{4}$  sec. cor., with brass cap marked

S 15
------

S 22
------

1942

Resurvey of a Portion of the Subdivisional lines  
of  
T.14 S., R. 13 E.

8

Chains

This corner is at end and in center of a road from south.  
Continue line and measurement.

40.34

Corner of fences from N. and W.

42.12

Spur, slopes S.

45.92

Wash, 30 lks. wide, course S.

50.52

Spur, slopes S.

60.12

Wash, 20 lks. wide, course S.

80.52

The cor. of secs. 15, 16, 21, and 22.

Land, rolling.

Soil, rocky 4th. rate.

Timber, none.

Undergrowth, greasewood, cacti, catclaw and palo verde.

From cor. of secs. 15, 16, 21, and 22.

N.0°01'W., on true line, bet. secs. 15 and 16.

Over rolling land, thru scattering undergrowth.

23.98

Wash, 10 lks. wide, course W.

29.00

Spur, slopes W.

32.56

Wash, 10 lks. wide, course W.

36.50

Wash, 10 lks. wide, course SW.

40.13

The  $\frac{1}{4}$  sec. cor., as evidenced by remains of old stake and  
lath in large mound of stone and accepted by the property  
owners.

At point for corner in center of mound of stone.

Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the  
ground to bedrock, with a stone mkd. with a cross (X)  
deposited at the base and in a mound of stone to top for  
 $\frac{1}{4}$  sec. cor., with brass cap mkd.

S16

S15

1942

60.195

Proportional distance;

The N  $\frac{1}{16}$  sec. cor., evidenced by an iron post  $1\frac{1}{2}$  ins.  
diam., 12 ins. above ground, and in a mound of stone to  
top, set by E.R. Sievers, Associate C.E. in charge of  
Forest Service surveys, in 1941 and accepted by property  
owners.

S16

Resurvey of a Portion of the Subdivisional lines  
of  
T. 14 S., R. 13 E.

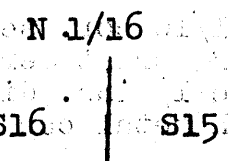
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9

Chains

At point for corner,

Set an iron post 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, with old post deposited at the base and in a mound of stone to top for N.1/16 sec. cor., with brass cap marked.



62.30

Foot of descent, bears NE and SW.

70.40

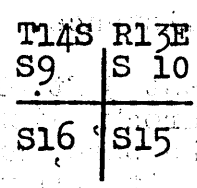
Wash, 60 lks. wide, course NE.

72.55

Old road, bears NE and SW.

80.26

The cor. of secs. 9, 10, 15, and 16, which is a mound of stone 5 ft. base, 2 ft. high, in which is a wooden post 2 ins. square, 2 ft. long, unmarked, alongside of which is a carriage bolt driven firmly in the ground. In the center of this mound of stone alongside post is a high pipe flagpole. This point is accepted by the property owners. In center of mound of stone set an iron post 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with stone marked with a cross (X) set at base and in a mound of stone to top for cor. of secs. 9, 10, 15, and 16, with brass cap marked.



1942

from which

Main office of Desert Laboratory, bears S.80°E.

Steel tower on mountain about 1/2 mi. distant, bears S.34 1/2° E.

High peak in the Catalina mtns., bears N.40°57'E.

High water tank in Tucson bears N. 62°40'E.

Land, slightly rolling.

Soil, stony 4th. rate.

Timber, none.

Undergrowth, greasewood, catclaw, mesquite and palo verde.

N.89°59'E., on true line, bet. secs. 10 and 15.

Over slightly rolling land, thru scattering undergrowth.

Desc. slightly over east slope.

10 Resurvey of a Portion of the Subdivisional lines  
of  
T. 14 S., R. 13 E.

Chains	
3.20	Road, bears N. and S.
4.70	Enter wash, drains NE.
7.70	Leave wash, asc. 23 ft. over NW slope.
16.00	Spur, slopes N. Desc. gradual NE slope.
19.44	Intersect W 1/16 cor. set by E.R.Sievers, Associate C.E. in charge of Forest Service surveys, in 1942, which is an iron pipe 1 1/2 ins. diam., projecting 12 ins. above ground with metal cap properly marked. Destroy this corner.
19.80	Wash, 20 lks. wide, course NW.
19.95	Proportional distance,  Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with stone marked with a cross (X) deposited at the base, and in a mound of stone to top for W 1/16 sec. cor., with brass cap mkd.  <div style="text-align: center;"> <math display="block">\begin{array}{r} \text{W } 1/16 \quad \text{S } 10 \\ \hline \text{S } 15 \end{array}</math> <p>1942</p> </div>
	Leave slightly rolling, enter mountainous land, bears N. and S. Asc. 205 ft. over broken west slope.
34.00	Spur, slopes N. Desc. 34 ft. over NE slope.
39.40	A mound of stone 5 ft. base, 2 1/2 ft. high on line.
39.90	Proportional distance.  Set an iron post 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with stone mkd. with a cross (X) deposited at the base, and in a mound of stone to top for 1/4 sec. cor., with brass cap mkd.  <div style="text-align: center;"> <math display="block">\begin{array}{r} \text{S } 10 \\ \hline \text{S } 15 \end{array}</math> <p>1942</p> </div>
	from which
	Smokestack of St. Marys hospital, bears N.15 3/4°E.
	High, rocky peak in the Catalinas, bears N.39°20'E.
	Rincon peak, bears S.76°06'E.
	High water tank in Tucson, bears N.57°40'E.
	E. end of Desert Laboratory, bears S.18°55'W.
42.70	Desc. 132 ft. over NE slope to wash. Pipe line, bears NE and SW.
49.45	Cement road, bears N. and S.

Resurvey of a Portion of the Subdivisional lines BOOK 4293

T.14 S., R. 13 E. 11

Chains

49.98 Set an iron post 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base, and in a mound of stone to top for W 1/64 sec. cor. NE 1/4 sec. 15, only, with brass cap mkd.

S 10  
W 1/64 NE 1/4 S15

1942 from which

The cor. of fences extending east and south, bears S. 10 lks. distance. From reliable sources it was learned that these fence lines were built some 30 years past and their location was governed by results of a subdivisional survey of sec. 15, as evident by existent cors. of same. The proportionate point for the establishment of this 1/64 sec. cor. would be 10 1/2 lks. S. 89° 56' W. of the established corner. In view of this slight difference, the fence cor. is accepted for control in departure to avoid disturbing satisfactory existing conditions in secs. 10 and 15.

Continue along fence.

54.55 Wire fence, bears N. 22 1/2° W. and S. 22 1/2° E.

58.95 Wash, 20 lks. wide, course N. Asc. 10 ft. over W. slope.

59.98 Point for E 1/16 sec. cor., as evidenced by fence line extending N. and S. Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with stone mkd. with cross (+) deposited at the base, and in a mound of stone to top for E. 1/16 sec. cor., with brass cap mkd.

S 10  
E 1/16  
S 15  
1942

South, 3 lks. dist. is a fence cor., from which fences extend N., E., and W. The north fence is on the accepted property line extending south from the SE 1/16 sec. cor. of sec. 10, which was established by the City Engineer, Tucson, Ariz. in 1909, in connection with surveys in that city.

Continue along fence, to south of line.

61.00 Leave slightly rolling, enter mountainous land; asc. 91 ft. over west slope.

65.30 Top of ascent; ridge, bears N. and S. Across rocky surface.

70.00 Leave top, desc. 108 ft. over E. slope to sec. cor.

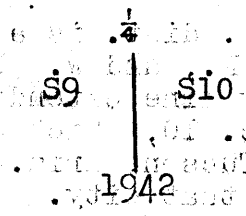
76.77 Intersect an iron pipe, 1 in. diam., 6 ins. above ground with metal cap mkd. for City Limits of City of Tucson.

77.07 Fence cor. on line; fences extend N. and W.

Resurvey of a Portion of the Subdivisional lines of

T. 14 S., R. 13 E.

12

Chains	
79.80	Intersect the cor. of secs. 10, 11, 14, and 15. Land, mountainous, and rolling. Soil, stony 4th. rate. Undergrowth, scrub palo verde, greasewood, cacti and sahuaro.
	From cor. of secs. 9, 10, 15, and 16.
	N. 0° 38' W., on true line, bet. secs. 9 and 10.
	Over slightly rolling land, through scattering undergrowth.
	Desc. gradually over general NE slope.
5.00	Enter washed land, drains E.
6.80	Leave washed land. Asc. gradual SE slope.
19.00	Top of ascent; over nearly level ridge top, bears E. and W.
19.40	4- strand wire fence, bears E. and W.
19.81	Anklam road, paved, bears E. and W., is 40 lks. wide.
20.32	The cor. of a fence extending N. and W., bears W. 10 lks. distance.
26.15	Wash, 20 lks. wide, course E. Asc. gradual SE slope.
39.50	Spur, slopes E. Old road on same, bears E. and W.
40.21	Proportional distance.
	Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base, and in a mound of stone to top for 1/4 sec. cor., with brass cap mkd.
	
	from which
	NE cor. of Desert Laboratory, bears S. 38 1/2° E.
	Steel tower on mountain SW of Laboratory, bears S. 18° 35' E.
	Flag pole on Schnabel rifle range, bears S. 15° W., 1.28 chs. distant.
	Rifle range memorial marker, bears S. 49° W., 66 lks. distant.
	Desc. 81 ft. over N. slope.
47.10	Telephone line, bears E. and SW.

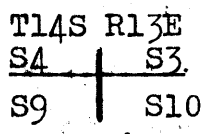
Resurvey of a Portion of the Subdivisional lines  
of  
T.14 S., R.13 E.

Chains

- 50.20 The cor. of fences extending W. and S.; bears W. 15 lks. distant.
- 54.20 Road, bears NE and SW.
- 56.30 Wash, 20 lks. wide, course NE.
- 73.70 Improved road, bears NW and SE.
- 75.50 Road, bears E. and W.
- 76.00 Spur, slopes E.
- 79.80 West Speedway road, bears E. and W.
- 80.42 The cor. of secs. 3, 4, 9, and 10, as evidenced by an iron post 2 ins. diam., 8 ins. above ground and set in cement, with metal cap properly mkd. This cor. reestablished by Paul E. Fernald, registered engineer, in 1929, is accepted by the property owners.

At point for cor.

Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground, with old cor. post deposited at the base, for cor. of secs. 3, 4, 9, and 10, with brass cap mkd.



1942

Land, slightly rolling.  
Soil, stony 4th. rate.  
Undergrowth, scrub palo verde, greasewood, catclaw, cacti and sahuaro.  
No timber.

From cor. of secs. 2, 3, 10, and 11.

To avoid improvements on grounds of Country Club run on offset line.

South, 1.20 chs. to center of West Speedway road.

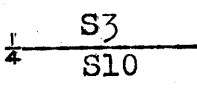
N.89°46'W., on offset line.

39.86

North, 1.20 chs. to the  $\frac{1}{4}$  sec. cor. as evidenced by an iron post, 2 ins. diam., 8 ins. above ground and set in cement with metal cap properly mkd., established by Paul E. Fernald, registered engineer, in 1929 and accepted by the property owners.

At point for corner.

Set an iron post 3 ft. long, 1 in. diam., 28 ins. in the ground and surrounded with stone covered with cement, with old cor. post deposited at the base for  $\frac{1}{4}$  sec. cor., with brass cap mkd.



1940

## Resurvey of a Portion of the Subdivisional lines

14

of  
T.14 S., R.13 E.

Chains	
	<p>from which</p> <p>West end of Desert Laboratory office, bears S.2°20'W.</p> <p>S. end of Elks Hospital, bears S.86°33'W.</p> <p>High water tank of El Rio Park subdivision, bears S.75½°E.</p> <p>Over old field, partly covered with undergrowth of small mesquite.</p>
42.02	Wire fence, bears NW and SE.
44.61	Center of Silver Bell road, bears NW and SE.
46.02	Enter county gravel pit.
48.56	Leave gravel pit.
55.91	Road, bears N.80°E. and S.80°W.
	To avoid Elks Hospital, run on offset line.
	North, 1.20 chs. Thence, N.89°56'W.
63.56	Elks Hospital, bears S. 80 lks. dist.
74.21	Wash, 10 lks. wide, course NE.
79.72	South, 1.20 chs. to cor. of secs. 3, 4, 9, and 10.
	Land, slightly rolling, and level.
	Soil, E½ sandy loam 2nd. rate.; W½ stony 4th. rate.
	Timber, greasewood, scrub palo verde, cacti and catclaw; sahuaro.
	From cor. of secs. 9, 10, 15, and 16.
	N.89°56'W., on true line, bet. secs. 9 and 16.
	Over rolling land, through scattering undergrowth.
	Asc. gradual SE slope.
10.00	Spur, slopes NE; desc. gradually over NW slope.
28.95	Wash, 20 lks. wide, course NE.; asc. gradually over NE slope.
38.20	Spur, slopes S.; desc. slightly over SW slope.
40.07	The ¼ sec. cor. as evidenced by an iron post 2 ins. diam. firmly set, projecting 8 ins. above ground, with metal cap properly mkd., set by Paul E. Fernald in 1929, and accepted by the property owners. Surround this post with cement and over old cap set brass tablet ¾ ins. diam., with 3 in. stem, for ¼ sec. cor., with top mkd.
	<del>¼ S9</del> S16
	1942
	raise a mound
	of stone 4 ft. base, 2 ft. high, N. of cor.



Resurvey of a Portion of the Subdivisional lines  
of  
T.14 S., R. 13 E.

Chains

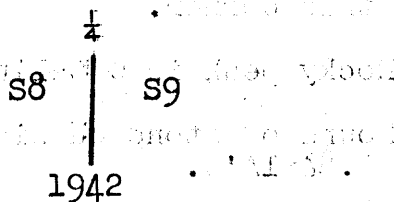
- 40.38 Natural gas line, bears N. and S.
- 40.60 Road, bears N. and S.
- 43.95 Wash, 15 lks. wide, course SE. Asc. 50 ft. over NE slope.
- 56.00 Spur, slopes SE. Over slightly rolling SW slope.
- 80.14 The cor. of secs. 8, 9, 16, and 17, as evidenced by an iron post 2 ins. diam., firmly set, marked on brass cap as described in the field notes of the resurvey of the west boundary of sec. 16.

Land, slightly rolling.  
Soil, stony 4th. rate.  
Undergrowth, scrub palo verde, greasewood, catclaw, and cacti; sahuaro.

N.0°23'W., on true line, bet. secs. 8 and 9.  
Over rolling land, thru scattering undergrowth.  
Asc. gradually over SW slope.

- 7.00 Ridge, bears E. and W. Desc. 35 ft. over N. slope to spur.
- 18.75 Wire fence, bears E. and W.
- 19.35 Center of paved Anklam road, bears E. and W.
- 25.55 Spur, slopes NE. Desc. 10 ft. over NW slope.
- 33.44 Edge of wash, 6 ft. deep, course NE.; over rocky bottom.
- 35.00 N. edge of wash; asc. 10 ft. over SE slope.
- 36.50 Spur, slopes NE. Desc. 10 ft. over NW slope.
- 39.00 Wash, 10 lks. wide, course NE. Asc. 20 ft. over SE slope.
- 40.27 Proportional distance,

Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with stone mkd. with a cross (X) deposited at the base and in a mound of stone to top for 1/4 sec. cor. of secs. 8 and 9, with brass cap mkd.



from which  
Anklam house, bears N.14°W.  
Pump over Anklam well, bears S.67 1/2°W., 54 lks. dist.  
N.E. end of Desert Laboratory, bears S.67°40'E.  
Asc. gradually over SE slope.

Resurvey of a Portion of the Subdivisional lines  
of

16

T.14 S., R. 13 E.

Chains

- 51.55 Spur, slopes NE. Anklam house bears N.70°W., 3 chs. distant.
- 63.00 Wash, 10 lks. wide, course NE.
- 73.45 Old road, bears NE and SW.
- 75.00 Bank of wash, bears NE and SW. Desc. 8 ft. over vertical slope to bed. of wash. which drains NE.
- 79.00 Leave wash; across stony ground.
- 80.54 The cor. of secs. 4, 5, 8, and 9 as evidenced by a carriage bolt driven firmly in the ground in center of West Speedway road and accepted by the property owners, set by Paul E. Fernald, registered engineer, in 1929.

At point for cor.

Set an iron post 3 ft. long, 2 ins. diam., in center of road and 4 ins. below surface for cor. of secs. 4, 5, 8, and 9, with old bolt deposited at base, with brass cap

T14S	R13E
S5	S4
S8	S9

1942

At a point N.60°W., 1.83 chs. distant.

Set an iron post 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with a stone mkd. with a cross (X) deposited at the base, and in a mound of stone to top for witness cor. secs. 4, 5, 8, and 9, with brass cap marked as above described with addition of the letters WC in SE quadrant.

At a point S.60°W., 1.83 chs. distant.

Set an iron post 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with stone mkd. with a cross (X) deposited at the base and in a mound of stone to top for witness cor. secs. 4, 5, 8, and 9, with brass cap marked as above described with addition of the letters WC in NE quadrant.

An iron post 2 ins. diam., firmly set and projecting 2 ft. above ground and mound of stone, with metal cap mkd. for 4, 5, 8, and 9, bearing N. 37 lks. distant, was set by Frank C. Kelton about 1927 in connection with survey in section 8. Destroy all evidence of this corner.

Rocky peak in Catalina mts., bears N.46½°E.

Mound of stone on high peak in Tucson mts., bears S.84°14'W.

Land, slightly rolling.

Soil, rocky 4th. rate.

Undergrowth, greasewood, scrub palo verde, catclaw and cacti; sahuaro.

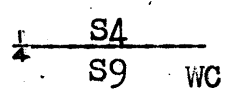
Resurvey of a Portion of the Subdivisional lines  
of  
T.14 S., R.13 E.

Chains

S.89°50'E., on true line, bet. secs. 4 and 9.  
 Over washed, stony land along West Speedway road.  
 1.30 Center of wash, course NE.  
 13.30 Wash, 20 lks. wide, course NE.  
 19.70 Spur, slopes NE. Old roads branch NE and NW. Desc. 10 ft. over east slope.  
 26.10 Enter wash, course NE.  
 32.50 Leave wash, course NE.; asc. 12 ft. over west slope.  
 33.20 Spur, slopes NE.; desc. 10 ft. over SE slope.  
 36.80 Wash, 10 lks. wide, course NE.  
 39.47 Cross road, bears N. and S.  
 39.58 Natural gas line, bears N. and S.  
 39.86 Proportional distance and point for  $\frac{1}{4}$  sec. cor., determined from four iron pipe reference points set by Paul E. Fernald, registered engineer, in 1929, NE, NW, SE and SW 45 lks. distant, falls in West Speedway road.

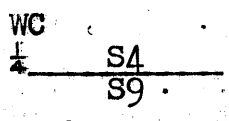
At true point for corner, chisel a cross (+) 4 ins. long, on bedrock, 12 ins. below surface of road, for  $\frac{1}{4}$  sec. corner.

At a point N.44 $\frac{1}{2}$ °W., 67.5 lks. distant.  
 Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top for witness to  $\frac{1}{4}$  sec. cor., with brass cap mkd.



1942

At a point S.44 $\frac{1}{2}$ °E., 67.5 lks. distant.  
 Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top for witness to  $\frac{1}{4}$  sec. cor., with brass cap mkd.



1942

Asc. 46 ft. over W. slope.

45.50 Spur, slopes N.; desc. 20 ft. over E. slope.  
 46.50 Branch road, bears SW.  
 63.70 Wash, 50 lks. wide, course NE.  
 75.40 West Speedway road, bears S.80°E., at turn from W. at branch with road which bears NW and SE.  
 79.72 The cor. of secs. 3, 4, 9, and 10.  
 Land, slightly rolling; soil, stony 3rd. and 4th. rate.  
 Undergrowth, greasewood, cacti, catclaw; sahuaro.

Subdivision of Sec. 10 of T. 14 S. 13 E. Lines

Chains

In 1876, T.F. White, Deputy Surveyor, surveyed lots 1 to 13, inclusive, in E. half of sec. 10 by metes and bounds. The plat of said sec. approved Dec. 15, 1876, shows the lots surveyed by White and also shows in the E 1/2 of said sec. lots 1 to 5, incl., the same being the remainder of the E 1/2 of the section.

The following notes describe a partial subdivision of section 10 and the survey of Tract 37 for the purpose of locating the lines of property transferred to the U.S. Forest Service from the Carnegie Institution of Washington, the Deed of Donation dated August 7, 1940.

From the 1/4 sec. cor. of secs. 10 and 15.

N:0°45'W., on meridional 1/4 sec. line, towards flag visible on the 1/4 sec. cor. of secs. 3 and 10.

Desc. 189 ft. over rolling N. slope through scattering undergrowth.

19.49 Wire fence, bears E. and W.

19.96 Center of Anklam road, bears E. and W.

20.09 Proportional distance, true point for S. 1/16 sec. cor. falls on N. edge of paved road where it is impractical to set corner.

20.36 Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base and in a mound of stone to top for witness to S. 1/16 sec. cor., Cor. No. 3 of Tract 37, with brass cap mkd.

T14SR13E  
S1/16

S10 | AP 3 TR 37

W C  
1942

Corner is set under a wire fence, bearing E. and W. (W. 14 lks. to cement corner post, thence N.)

Desc. 28 ft. over gradual N. slope.

30.00 Cross fence, bears N. and S.

31.60 Wash, 1 1/2 chs. wide, course NE.

40.01 Fall 13 lks. W. of an iron post, 1 in. diam., set flush with cement at cor. of fences from S. and E.

40.18 Set an iron post 3 ft. long, 1 in. diam., 1 ft. below surface of ground, for center 1/4 sec. cor. and Cor. No. 2 of Tract 37, with brass cap mkd.

T14SR13E  
C 1/4

S10 | AP 2 TR 37

1942

from which  
Smokestack at St. Marys Hospital, bears S. 63° 10' E.



## Chains

In connection with the surveys of the Terrace subdivision and City of Tucson Menlo Park annex, the SE 1/16 sec. cor. of sec. 10 was established. The first record of this cor. establishment appears to be in 1905. In view of extensive improvements hinging upon this control point it has been incorporated in the subdivisional survey of the SE 1/4 of sec. 10. The corner referred to is a concrete shaft 10 ins. square and five feet above ground, firmly set on a base about 18 ins. square, with iron bolt set in top of shaft. On south edge of base, adjacent to shaft, set a brass tablet 3 1/2 ins. diam., with 3 in. stem, in cement, mkd. on top

SE 1/16 S10

1942

From this point, the S 1/16 sec. cor. on line bet. secs. 10 and 11, bears S. 89° 59' E., 19.66 chs. distant; the south center 1/16 sec. cor. Sec. 10, bears N. 89° 59' W., 20.35 chs. distant.

Thence, from SE 1/16 sec. cor.

South, on meridional center line of the SE 1/4.

Over slightly rolling land, through scattering undergrowth.

0.15 Center of road; bears E. and W.

0.30 Corner of fences extending W. and S.

2.80 Intersect an iron post, 1 1/2 ins. diam., 3 ins. above ground, firmly set, mkd.

CITY

10.15 Branch fence, bears E.

20.06 The E 1/16 sec. cor. bet. secs. 10 and 15.

Land, slightly rolling.

Soil, stony 4th. rate.

Undergrowth, greasewood, scrub palo verde and caeti.

From the SE 1/16 sec. cor. of Sec. 10.

N. 1° 49' W., on meridional center line of the SE 1/4.

Over rolling land, through scattering undergrowth. Along wire fence.

0.10 Small brick house, bears W. 20 lks. dist. House, bears E. 40 lks. dist.

4.85 Wire fence, bears W. and 15 lks. E. to corner.

5.18 Center of Silver Bell road, bears E. and W.

5.90 Fence, bears E. and W.

10.32 Intersect line 7-8 of Tract No. 37 at a point 4.06 chs. N. 49° 47' E. of cor. No. 7.

Chains

There is a fence along the tract boundary; enter Desert Laboratory grounds.

14.42 Intersect line 9-10 of Tract No. 37, at a point 2.47 chs. S. 82° 34' W. of Cor. No. 9.

There is a fence along tract boundary; leave Desert Laboratory grounds, entering thick, small mesquite brush.

20.15 Intersect the E 1/16 sec. cor. on latitudinal center line. Land, is slightly rolling for S. 6 chs.; remainder, is level. Soil, stony 4th. rate., S. 6 chs.; remainder, sandy loam, 1st. rate. Undergrowth, greasewood, cacti, and on level stretches scrub mesquites.

Survey of Tract No. 37

The following field notes describe a metes and bounds survey of Tract No. 37 which comprises several tracts described in the Deed of Donation of Carnegie Institution of Washington, to the United States as follows: Portions of subdivision No. 2 (lot 2) of sec. 10, designated as Tracts Nos. 2, 19, and 24; a portion of lot 11 of sec. 10 designated Tract No. 25; and a portion of lot 10 of sec. 10 designated as Tract No. 26, all as shown on plat accompanying said Deed of Donation and plats of private surveys on file in the recorder's office of Pima County, Arizona. Lots 2, 10, and 11 of sec. 10 are shown on plat approved Dec. 15, 1876.

At a point where St. Marys Hospital west property line, produced, intersects the latitudinal center line of sec. 10,

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top for Cor. No. 1 of Tract No. 37, with brass cap mkd.

T14SR13E  
S10

AP1  
TR37

1942

Thence

N. 89° 59' W., along latitudinal center line and the north boundary of Tract No. 37.

9.00 The C<sub>1</sub> cor. of sec. 10 and Cor. No. 2 of Tract No. 37.

Thence

S. 0° 45' E., along meridional center line and west boundary of Tract No. 37.

19.82 The witness cor. to S. 1/16 sec. cor. and Cor. No. 3 of Tract No. 37.

20.09 True point for S 1/16 sec. cor. and Cor. No. 3 of Tract No. 37.

,Chains

Thence

S.89°59'E., on latitudinal center line of SE¼ sec. 10 and S. boundary of Tract No.37.

10.90

Point for Cor. No.4 of Tract No.37 falls in road bearing N. and S. at junction with road from east.

Set a stone 3 x 6 x 6 ins., mkd. with a cross (+) 8 ins. in the ground to bedrock, below surface of road, for Cor. No.4 of Tract No.37.

From this point, S.45°E., 0.52 chs. dist.

Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top for witness Cor. No.4, with brass cap mkd.

WC

TR37	T14S
AP4	R13E
	S10

1942

From this same point, N.45°W., 0.52 chs. dist.

Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, and in a mound of stone to top for witness cor. No.4, with brass cap mkd.

TR37	T14S
AP4	R13E
	S10

WC

1942

A cement post on fence line from N., bears E. 32 lks. dist.

A cement post on N. and S. fence line, bears W. 39 lks. dist.

Thence

North, on east boundary of Tract No.37.

Down the center of lane.

5.76

Fence cor., bears East, 27 lks. dist., from which fences extend E. and S.

5.77

True point for cor. No.5 of Tract No.37 falls in center of lane.

Set a stone 6 x 4 x 4 ins., mkd. with a cross (+) 9 ins. below the surface of road, for Cor. No.5 of Tract No.37.

From this point, West, 27½ lks. dist., set an iron post 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top for witness cor. No.5, with brass cap mkd.

TR37	WC
AP5	T14S
	R13E
	S10

1942



Survey of Tract No. 37, T. 14 S., R. 13 E.

Chains

From same point, East, 27 1/2 lks. distant, set an iron post 3 ft. long, 1 in. diam., 10 ins. in the ground to bed-rock, and in a mound of stone to top for witness cor. No. 5, with brass cap mkd.

TR 37  
WC AP 5

T14S  
R13E  
S10

1942

Thence East, on S. bdy. of Tract No. 37.

Along fence line to south and Anklam road to north about .40 lks. distant.

6.06 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for Cor. No. 6, Tract No. 37, with brass cap mkd.

TR 37 | T14S  
AP 6 | R13E  
S10

1942

Fence cor., bears South, 2 lks. distant, from which fences extend E., S., and W.

Thence North, on E. bdy. of Tract No. 37.

0.60 Silver Bell road, bears east and west, about 1/4 lks. distant.

1.87 Wire fence, bears NW and SE. Along same.

1.93 To point designated station 12, Tract 24, in the Deed of Donation as evidenced by fence lines bearing NW, SE, and NE from concrete post about 9 ins. square, 5 ft. high.

In top of post set a brass tablet 3 1/2 ins. diam., with 3 in. stem, for Cor. No. 7, Tract No. 37, mkd.

TR 37 | T14S  
AP 7 | R13E  
S10

1942

Thence N. 49° 47' E., on SE boundary of Tract No. 37, identical with the SE boundary of Tracts 24, 25, and 26, described in the Deed of Donation, along fence line.

7.43 Intersect concrete post 6 ins. square, 5 ft. high set at junction of fences from S. 49° 47' W., N. 6 1/4° W., and southerly. This point designated station 9 of Tract 26, in Deed of Donation.

In top of post set a brass tablet 3 1/2 ins. diam., with 3 in. stem, for Cor. No. 8, Tract No. 37, mkd.

Survey of Tract No. 37, T. 14 S., R. 13 E.

Chains

TR37 | T14S  
AP8 | R13E  
S10

1942

Thence

N.6°15'W., along fence line, on E. bdy. of Tract No.37, identical with E. bdy. of Tract 26, described in Deed of Donation.

2.25

Intersect concrete post 6 ins. square, 5 ft. high at junction of fences from S.64°E., Northerly and S.82°34'W. This point designated station 8, in Deed of Donation.

In top of post, set a brass tablet 3 1/2 ins. diam., with 3 in. stem, for Cor. No.9, Tract No.37, mkd.

T14S R13E  
S10

AP9  
TR37

1942

Thence

S.82°34'W., along fence line, on N. bdy. of Tract No.37, identical with the N. bdys. of Tracts 26 and 25, described in the Deed of Donation.

5.10

Intersect a point designated station 4 of Tract 25 in the Deed of Donation as evidenced by fence line and monumented by the U.S. Forest Service in 1941, with an iron post 1 1/2 ins. diam., 10 ins. above ground, with metal cap mkd. 4.

Set a brass tablet 3 1/2 ins. diam., with 3 in. stem, in the end of old pipe with cap removed, and filled with cement for Cor. No.10 of Tract No.37, with top mkd.

T14S R13E  
S10

AP10  
TR37

1942

This corner falls under fence, at angle point in same, as indicated by decayed remains of old wooden post at this point. The fence is in poor condition from here on westerly.

Thence

S.83°36'W., along N. bdy. of Tract No.37, identical with the N. bdy. of Tract 19, described in the Deed of Donation. Along old fence.

0.63

Intersect a concrete post 9 ins. square, 5 ft. high, at junction of fences from N.83°36'E., and southerly, a point on the easterly right of way of the Silver Bell road and Cor. of Tract 19, as described in the Deed of Donation.

In top of post, set a brass tablet 3 1/2 ins. diam., with 3 in. stem, for Cor. No.11 of Tract No.37, mkd.

Survey of Tract No. 37, T. 14 S., R. 13 E.

Chains

T14S R13E  
S10



1942

Thence

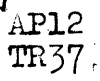
S.12°51'W., on boundary of Tract No. 37, along the easterly right of way line of the Silver Bell road, identical with the west boundary of Tract 19, described in the Deed of Donation. Along west side of fence line.

3.96

Point where the south property line of St. Marys Hospital grounds, produced, intersects the easterly right of way line of the Silver Bell road.

Set a brass tablet 3 1/2 ins. diam., with 3 in. stem, in bed of concrete about 14 ins. square and 8 ins. thick, 6 ins. below surface of ground, about 1 1/2 lks. east of the east edge of paved Silver Bell road, mkd.

T14S R13E  
S10



1942

At a point N.13°28'E., 17 lks. dist., an iron post, 1 1/2 ins. diam., set flush with the ground for reference point, with metal cap mkd.

10

RP

1942

At a point S.43°40'E., 30 1/2 lks. dist., set an iron post 3 ft. long, 1 in. diam., 18 ins. in the ground to bed-rock and in a mound of stone and cement to top for reference point, with brass cap mkd.

10  
RP

1942

A cross on top of S. end of St. Marys Hospital, bears N.2°08'W.

A steel tower on mountain top in SE 1/4 NW 1/4 sec. 15, bears S.22°40'W.

A concrete post, 6 ins. square, 5 ft. high in north and south fence line, bears N.88°05'E., 18 lks. distant.

Chains

Thence

N. 88° 00' W., on N. bdy. of Tract No. 37, identical with the N. bdy. of lot No. 2, as described in the Deed of Donation.

Cross paved surface of Silver Bell road.

0.25 Center of road, bears northerly and southerly.

0.39 Theoretical point for St. Marys Hospital land, developed by retracements; as this point falls in paved road the original corner has been obliterated.

0.50 West edge of paved road.

0.68 Wire fence, bears N. 30° W. and S. 30° E.

6.94 Point for Cor. No. 13 of Tract No. 37, identical with cor. of lot No. 2 as described in the Deed of Donation.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for Cor. No. 13 of Tract No. 37, with brass cap mkd.

T14S R13E

S10

AP13

TR37

1942

Thence

N. 0° 45' W., on the east bdy. of Tract No. 37 and W. bdy. of St. Marys Hospital grounds, identical with E. bdy. of lot No. 2, described in the Deed of Donation as being parallel to the W. bdy. of lot No. 2.

9.63 Concrete post on recognized property line at the end of fence extending West. This post and buildings on the hospital grounds determine the location of the E. bdy. of Tract No. 37.

9.76 Cor. No. 1 of Tract No. 37, the place of beginning.

Tract No. 37 contains 25.46 acres.

Chains

The following notes describe a partial subdivision of section 15, T. 14 S., R. 13 E., for the purpose of identifying certain lands administered by the U.S. Forest Service.

From evidence developed it is apparent that previous surveys of certain of the subdivisional lines of sec. 15 were made in a lawful manner; one of these surveys was made by the City of Tucson to identify the SE $\frac{1}{4}$  of sec. 15, which land is owned by said city. Control for the subdivision surveys made under this group was based upon regular subdivision of sections methods or collateral evidence with weights that warranted acceptance.

From the  $\frac{1}{4}$  sec. cor. of secs. 14 and 15.

N. 89° 59' W., on the latitudinal center line of sec. 15.

Over heavily rolling land, through scattering undergrowth.

Asc. 103 ft. over SE slope.

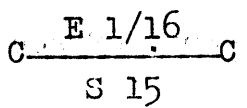
10.30 Center of paved road leading to top of "A" mountain, bears NE and SW.

14.42 Intersect an iron post, 1 $\frac{1}{2}$  ins. diam., set in cement, projecting 8 ins. above ground, mkd. in cement on S. side:

CITY

16.00 Ridge, bears NE and SW. Desc. gradually over NW slope.

19.93 Proportional distance: set a brass tablet, 3 $\frac{1}{2}$  ins. diam. with 3 in. stem, in a cement block 10 x 10 x 12 ins. set flush with ground, for E 1/16 sec. cor., mkd.



1942

raise a mound of stone 3 ft. base, 2 ft. high, N. of corner.

Paved road, which bears E. and W., is south about 1 $\frac{1}{2}$  chs. distant.

21.00 Road to rock quarry, which is about 5 chs. distant and NE, bears NE and SW.; desc. 40 ft. over W. slope.

23.35 Wash, 10 lks. wide, course N.; asc. 289 ft. over east slope to center of section corner:

37.96 Old road, 230 ft. above wash, bears N. and SE.

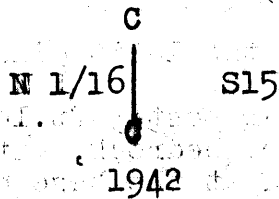
39.86 Intersect the meridional center line.

Set an iron post 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base, and in a mound of stone to top for center  $\frac{1}{4}$  sec. cor., with brass cap mkd.

Chains	
	<p style="text-align: center;">04 915 1942</p> <p style="text-align: right;">from which</p> <p>An iron pipe, <math>1\frac{1}{2}</math> ins. diam., projecting 18 ins. above a mound of stone, bears S., 11 lks. dist.</p> <p>The <math>\frac{1}{4}</math> sec. cor. is located under a 4-strand wire fence constructed some 30 years ago, extending southerly to the <math>\frac{1}{4}</math> sec. cor. on S. bdy. of sec. 15 and northerly to the N <math>1/16</math> sec. cor.</p> <p>Asc. 255 ft. over rough east slope.</p>
51.20	Top of ascent; rocky top of mountain, bears N.20°E. and SW. Continue over nearly level land.
51.30	A steel tower bears N.56°W.
54.10	Edge of top, bears NE and SW.; from here, same tower bears N.33°50'E. Desc. 90 ft. over W. slope.
59.98	Proportional distance: set an iron post 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base and in a mound of stone to top for W $1/16$ sec. cor., with brass cap mkd.
	<p style="text-align: center;">W <math>1/16</math> S 15 1942</p>
	Desc. 300 ft. over NW slope.
80.10	The $\frac{1}{4}$ sec. cor. of secs. 15 and 16.
	<p>From <math>\frac{1}{4}</math> sec. cor. of secs. 15 and 22.</p> <p>North, on the meridional center line of sec. 15.</p> <p>Along fence line, which is west about 5 lks. distant.</p> <p>Asc. 300 ft. over rough south slope.</p>
22.00	Ridge, bears N.70°W. and S.70°E.; desc. gradually over NE slope.
33.00	Wash, 1 ch. wide, course SE.; asc. gradually over SE slope.
40.15	The center $\frac{1}{4}$ sec. cor.
	Thence N.0°37'W., on the meridional center line of sec. 15.
	Asc. gradually over SE slope, along fence.
3.00	Slope changes to NE. Desc. 56 ft. over rough E. slope.
20.10	Point for N $1/16$ sec. cor., as evidenced by a carriage bolt set in ground and mound of stone, 1 lk. N. of a

Chains

fence post, 4 ins. square, 8 ft. above ground and in a mound of stone, from which fences extend E. and S. that are accepted by the owners as marking the property line.  
 Remove bolt and in same place set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base and in a mound of stone to top for N 1/16 sec. cor., with brass cap mkd.



This corner falls on ridge at bend from SW to NW.  
 Desc. 149 ft. over general NE slope to 1/4 sec. cor.

25.00 Reservoir at Desert Laboratory headquarters, bears East 10 lks. distant.

31.10 Rock house, bears W., 30 lks. distant.

32.60 Paved road, bears E. and W. to Desert Laboratory headquarters.

34.75 Pipe line, bears NE and SW.

40.15 The 1/4 sec. cor. of secs. 10 and 15.

From the W 1/16 sec. cor. on the latitudinal center line of sec. 15.

N.0°25'W., on the meridional center line of the NW 1/4.

Over mountainous land, through scattering undergrowth.

Desc. 100 ft. over NW slope.

20.08 Intersect the latitudinal center line.

Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with stone mkd. with a cross (+) deposited at the base and in a mound of stone to top for NW 1/16 sec. cor., with brass cap mkd.

NW 1/16 S15

Desc. 200 ft. over NW slope.

40.16 The W 1/16 sec. cor. bet. secs. 10 and 15.

From the N 1/16 sec. cor. bet. secs. 15 and 16.

N.89°59'E., on the latitudinal center line of the NW 1/4.

Asc. 200 ft. over NW slope.



Chains	
20.04	The NW 1/16 sec. cor. on north line.
40.08	The NE 1/16 sec. cor. on meridional center line.
	From the E 1/16 sec. cor., bet. secs. 10 and 15.
	S. 0° 31' E., on the meridional center line of the NE 1/4.
20.09	Intersect the latitudinal center line of the NE 1/4.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a stone mkd. with a cross (+) deposited at the base and in a mound of stone to top for NE 1/16 sec. cor., with brass cap mkd..
	NE 1/16 sec. S 15 1942
	Asc. 107 ft. over NW slope.
32.30	Edge of cliff from E; desc. 85 ft. over SW slope.
40.18	The center E 1/16 sec. cor.
	From the N 1/16 sec. cor., bet. secs. 14 and 15.
	S. 89° 59' W., on the latitudinal center line of the NE 1/4.
	Desc. 80 ft. over W. slope.
19.92	The NE 1/16 sec. cor.
24.92	Wash, 10 lks. wide, course N.; asc. 52 ft. over E. slope.
29.89	Fall 3 lks. N. of the cor. of fences from W. and N.
	Asc. 268 ft. over E. slope.
34.74	U-turn in paved road, bears N. 1.40 chs. distant.
39.95	The center N 1/16 sec. cor.
	The point for the W 1/64 sec. cor. of the NE 1/4 of sec. 15, falls under fence accepted by owners as marking the property line.
	Set an iron post 3 ft. long, 1 in. diam., on bedrock, with a rock mkd. with a cross (+) deposited at the base and in a mound of stone to top for W 1/64 sec. cor., with brass cap mkd.
	W 1/64 sec. NE 1/4 S 15 1942



Subdivision of Sec. 15, T. 14 S., R. 13 E.

BOOK 4293

31

## Chains

A fence corner bears S., 3 lks. distant, from which fences extend N. and W.

Thence

N.0°35'W., along fence line.

19.96

Fence corner, from which fences extend E. and S.

20.06

The W 1/64 sec. cor. on N. bdy. of the NE $\frac{1}{4}$  of sec. 15.

## FINAL TEST OF SOLAR ATTACHMENT

July 11, 1942:

At station on meridian at Public Survey Office, Phoenix, Arizona, latitude 33°27'N., and longitude 112°04'35" W., examine the adjustments of the transit and find no errors, then to test the accuracy of the solar apparatus proceed as follows:

At 9h 00m., a.m., app.t., set off 33°27'N. on latitude arc, 22°07'N. on decl. arc and determine a meridian with the solar which agrees with the true meridian.

At app. noon, with latitude arc unchanged, observe the sun on the meridian; the resultant reading of the decl. arc is 22°06'N., which agrees with the computed declination of the sun.

At 3h 00m., app.t., with latitude arc unchanged, set off 22°05'N. on decl. arc and determine a meridian with the solar which agrees with the true meridian.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the adjustments of the instrument have been maintained during the surveys described in the foregoing field notes.



CERTIFICATE OF SURVEYOR

BOOK 4293

I, Benjamin J. Kinsey, Associate Cadastral Engineer, General Land Office, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 10th day of March, 1942, received from the district cadastral engineer for Arizona, with assignment instructions dated December 20, 1941, I have resurveyed boundaries of sections 9, 10, 15 and 16, and surveyed the subdivision-of-section lines of sections 10 and 15, and boundaries of Tract 37, of Township 14 South, Range 13 East of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

March 17, 1944  
Phoenix, Arizona

*Benjamin J. Kinsey*  
 Associate Cadastral Engineer  
 General Land Office

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, March 28, 1944

The foregoing field notes of the resurvey of boundaries of sections 9, 10, 15 and 16, the survey of subdivision-of-section lines of sections 10 and 15, and boundaries of Tract 37, of Township 14 South, Range 13 East, of the Gila and Salt River Meridian executed by Benjamin J. Kinsey, Associate Cadastral Engineer, General Land Office, under special instructions dated March 10, 1942, and assignment instructions dated December 20, 1941, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

*[Signature]*  
 Acting Supervisor of Surveys.

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 on file in the public survey office.

Supervisor of Surveys.