

3674

Book "J"  
4-879

BOOK 3674

# FIELD NOTES

OF THE ~~RETRACEMENT~~ OF

Part of the South boundary, and

Part of the Subdivision lines,

OF THE RESURVEY OF

Part of the South boundary and lines of

Part of the Subdivision lines

TO LAND OF THE SURVEY OF

Part (Completion) of the Subdivision lines of

TOWNSHIP 14 SOUTH, RANGE 10 EAST

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Charles E. Hunter,

U. S. Transitman,

In the capacity of U. S. Surveyor, under Special Instructions dated September 25, 1919, issued by the United States Surveyor General to govern surveys included in Group No. 100, Arizona, which were approved by the Commissioner of the General Land Office, October 22, 1919, and Assignment Instructions dated December 1, 1924.

Retracement, Resurvey and Survey commenced January 21, 1925.

Retracement, Resurvey and Survey completed February 3, 1925.

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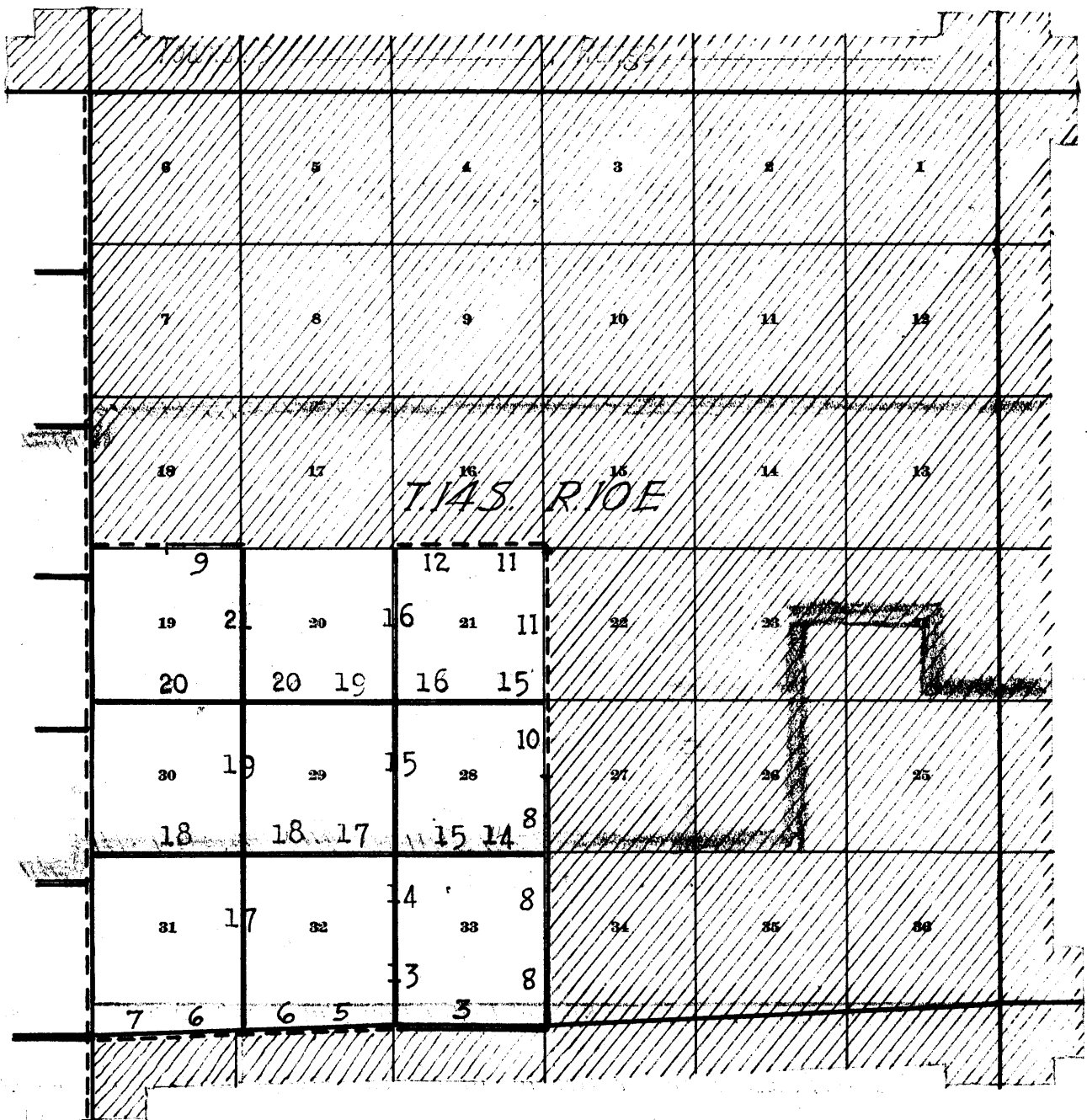
1A

Book "J"

Group 100 - Arizona

BOOK 3674

### INDEX DIAGRAM.



— Lines surveyed under this group.

— Lines retraced under this group.

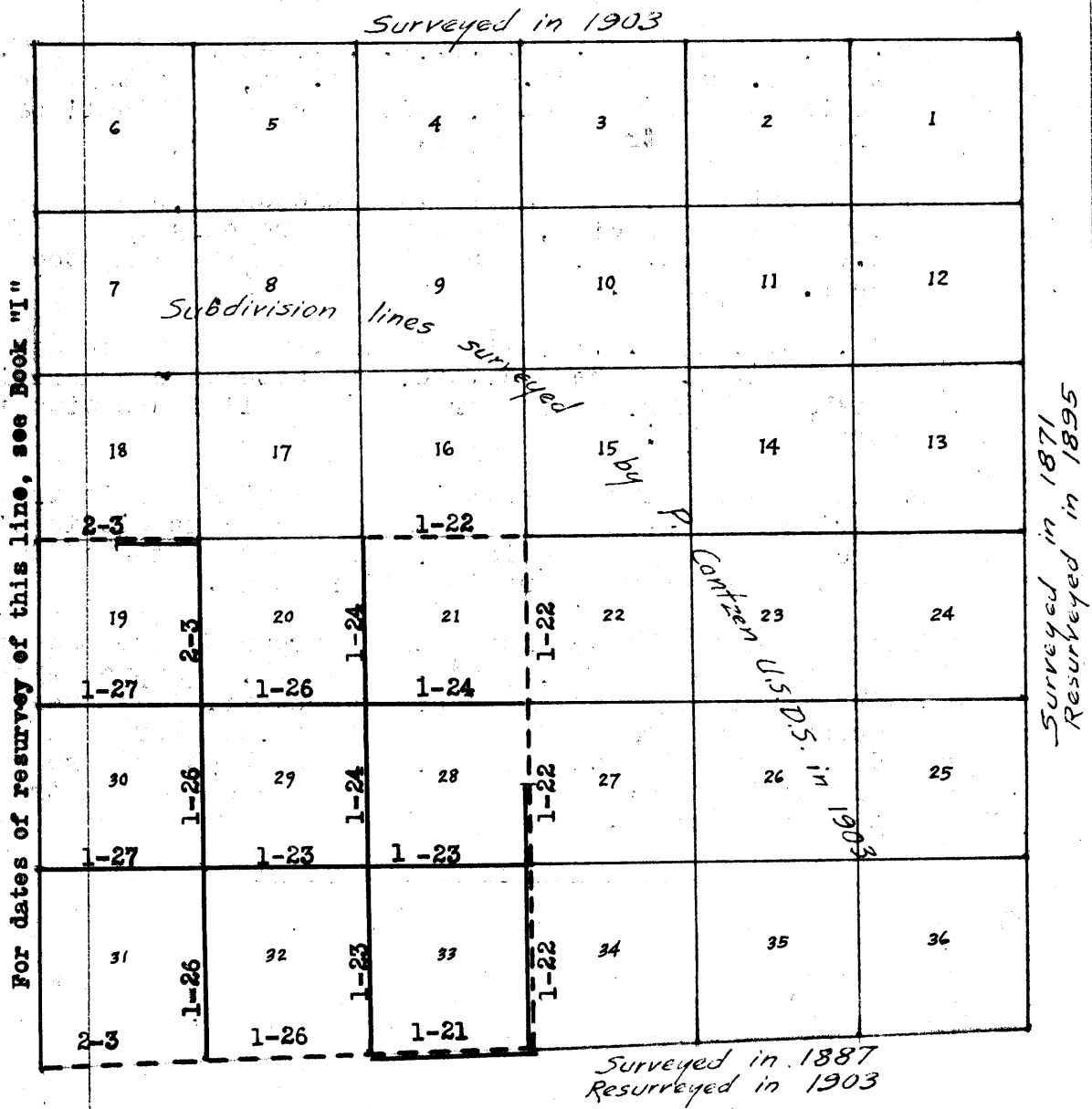
- - - Lines resurveyed under this group.

— Accepted surveys.

▨ Areas surveyed as per accepted plats on file.

Book "J"  
 Group 100 - - - Arizona.  
 Township 14 South, Range 10 East.

DATE DIAGRAM  
 1925



- Indicates lines surveyed by Charles E. Hunter, U.S.T., on dates shown thereon.
- - - Indicates lines retraced by Charles E. Hunter, U.S.T., on dates shown thereon.
- - - Indicates lines resurveyed by Charles E. Hunter, U.S.T., on dates shown thereon.

Retracements, resurveys and surveys hereinafter described, were executed by Charles E. Hunter, U.S. Transitman, on dates shown on diagram on page 1 hereof, using Buff and Buff transit No. 10125.

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Examine the adjustment of the instrument, and correct all errors. Then, to test the solar apparatus by comparing its indications resulting from solar observation made during a.m. and p.m. hours with a meridian established by Polaris observation, Dec. 21, 1924, at camp near center of sec. 13, T. 14 S., R. 7 E.; latitude,  $32^{\circ} 12\frac{1}{2}'$  N.; longitude,  $111^{\circ} 35\frac{1}{2}'$  W., as described in Book "F" of this group, proceed as follows:

Jan. 19, 1925: At 8h.00m. a.m., l.m.t., set off  $32^{\circ} 12\frac{1}{2}'$  N. on the lat. arc;  $20^{\circ} 18'$  S. on the decl. arc, and determine a meridian with the solar, which agrees within 1' of arc with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of  $20^{\circ} 17\frac{1}{2}'$  S. on the decl. arc, which agrees with the computed decl. of the sun.

At 4h.00m. p.m., l.m.t., with the lat. arc unchanged set off  $20^{\circ} 14'$  S. on the decl. arc, and determine a meridian with the solar, which agrees within 1' of arc with the true meridian.

As all of the solar observations made with the instrument during the usual hours of solar work come within 1' of arc with the true meridian, conclude that the adjustment of the instrument is satisfactory.

Unless otherwise specified all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape, and properly adjusted. The measurements are made on the slopes, the vertical angles determined with clinometer, and the slope measurements properly reduced to horizontal distances for entry in the field notes.

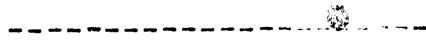
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Retracement of part of South bdy. of Township 14 South Range 9 East. 3

Chains.

This township boundary was surveyed in 1887 by G.J. Roskrige, U.S.D.S., on a bearing of S. 88° 12' W., establishing all section and 1/4 sec. cor. monuments thereon, with a common reference to areas on both sides of the line. The entire line was resurveyed by P. Contzen, U.S.D.S. in 1903, reconstructing the cor. monuments in their original position without changing their common reference. No other resurvey and no retracement of the line is of record.

The following notes describe a retracement of that portion of the township boundary situate between secs. 4 and 33, using for the bearing of the random lines the record of the 1903 resurvey.



The original cor. of secs. 3, 4, 33 and 34 is a malpais stone 10x6x6 ins. above ground, firmly set, marked with 3 notches on each of E. and W. edges, and witnessed by a mound of stone, 3 ft. base, 2 ft. high, W. of cor. No bearing trees. This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or change is required.

Thence, N. 87° 9' W., on random line, bet. secs. 4 and 33 (E. 1/2). Over mountainous land, thru. scattering timber and undergrowth.

- 1.54 Ascend 22 ft., over E. slope. Top of hill.
- 10.40 Descend 189 ft., over steep W. slope, to Foot of hill, brs. N. and S. Enter gently rolling land. Descend gradually over W. slope.
- 12.79 Road, brs. N. and S.
- 14.28 Wash, 10 lks. wide, course N.
- 20.25 Ascend gradually over N. slope, to Wash, 10 lks. wide, course N.
- 24.40 Ascend gradually over gently rolling NE. slope to 1/4 sec. cor.
- 37.00 Wash, 10 lks. wide, course NE.
- 40.24 Fall 187 lks. N. of the original 1/4 sec. cor. of secs. 4 and 33, which is a malpais stone, 10x6x6 ins. above ground, firmly set, marked "1/4" on N. face, and witnessed by a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

No bearing trees. The true course and distance of E. 1/2 of line bet. secs. 4 and 33 are therefore, N. 89° 50' W., 40.19 chs.

Thence, N. 87° 9' W., on random line, bet. secs. 4 and 33 (W. 1/2). Over gently rolling land, thru. scattering timber and undergrowth.

- 2.47 Ascend gradually over NE. slope, to Wash, 10 lks. wide, course NE. Enter rolling land.
- 6.56 Ascend 155 ft., over SE. slope. Road, brs. NE. and SW.
- 13.48 Trail, brs. NE. and SW.
- 26.65 Spur, slopes SW.
- 37.77 Descend 106 ft., over W. slope, to Wash, 15 lks. wide, course S. Enter gently rolling land.
- 40.09 Ascend 12 ft., over E. slope, to Fall 40 lks. N. of the original cor. of secs. 4, 5, 32 and 33, which is a granite stone, 12x10x14 ins. above ground, firmly set, marked with 2 notches on W. face, and 4 notches on E. face, and witnessed by a mound of stone 3 ft. base, 2 ft. high, W. of cor.

No trace of the original bearing tree NW. of cor. True course and distance of W. 1/2 of line, bet. secs. 4 and 33 are therefore, N. 87° 43' W., 40.07 chs.; the total of the line bet. secs. 4 and 33 is 80.26 chs.

As the excess measurement of neither the E. half or W. half of the line, or the excess in the total length of the line, exceeds the allowable limit of error, the

4 Retracement of part of South bdy. of Township 14 South, Range 9 East  
Chains.

existing  $\frac{1}{2}$  sec. cor. of secs 4 and 33, and the existing  
cor. of secs. 4, 5, 32 and 33, both retain their original  
common reference, and as both cor. monuments are good  
durable stones, properly marked and witnessed, no re-  
construction or change in either is required.

Land, mountainous, gently rolling and rolling.

Soil, gravelly and rocky, 3rd rate.

Timber, palo verde, ironwood and catclaw.

Undergrowth, scrub palo verde and cactus.



Resurvey of part of South bdy. of Township 14 South, Range 10 East. 5

Chains.

The following notes describe the resurvey of the S.bdrs. of secs.31 and 32 of T.14 S.,R.10 E.,reestablishing cors.thereon referring to areas in said sections only at intervals of 40.00 chs.in westing, counting from the cor.of secs. 4,5, 32 and 33, and altering the existing cors. to refer to areas S. of the line only.,

As the land S. of the line is embraced within previously accepted surveys, the alignment is not subject to rectification; therefore, preliminary to the resurvey, make a retracement of the N.bdrs.of secs.5 and 6,T.15 S.,R.10 E., to determine the several bearings upon which the resurvey is dependent.

The record bearings of the 1903 resurvey of the line are used as randoms.

Retracement for Resurvey.

43.97 From the original cor.of secs.4,5,32 and 33,hereinbefore described,  
S.86°7'W., on random line,on N.bdy.of sec.5(E.½).  
Fall 192 lks.S. of the original ¼ sec.cor.of secs.5 and 32, hereinafter described.

True course and dist.of E.¼ of N.bdy.of sec.5 are therefore S.88° 37'W., 43.88 chs. The excess in measurement exceeds allowable limits; therefore,a ¼ sec.cor. for sec.32 only will be required.

40.50 From original ¼ sec.cor., of secs.5 and 32,  
S.87°35'W.,on random line,on N.bdy.of sec.5 (W.½).  
Fall 5 lks.S. of the original cor.of secs.5,6,31 and 32, hereinafter described.

True course and dist.of W.½ of N.bdy.of sec.5 are therefore S.87°39'W., 40.50 chs., and the total length of N.bdy.of sec.5 is 84.38 chs. The excess in measurement of N. bdy.of sec.5 exceeds allowable limits; therefore, a cor.for secs.31 and 32 only will be required.

40.30 S.87°30'W.,on random line,on N.bdy.of sec.6 (E.½).  
Fall 8 lks.S. of the original ¼ sec.cor.of secs.6 and 31.  
True course and dist.of E.½ of N.bdy.of sec.6 are therefore S.87°37'W., 40.30 chs. The excess in measurement exceeds the allowable limit of error; therefore, a ¼ sec.cor. for sec.31 only will be required.

35.30 Thence,  
S.87°30'W., on random line,on N.bdy.of sec.6 (W.½).  
Fall 3 lks.N.of the original cor.of Ts.14 and 15 S.,Rs.9 and 10 E., described in Books "B" and "I" of this group.

True course and dist.of W.½ of N.bdy.of sec.6 are therefore S.87° 27'W., 35.30 chs.

RESURVEY.

From original cor.of secs.4,5, 32 and 33,hereinbefore described,  
S.88°37'W., on true line,on S.bdy.of sec.32.  
Over rolling land, thru.scattering timber and undergrowth.  
Ascend 57 ft.,over E.slope.  
0.48 Road, brs. NE.and SW.  
10.88 Spur,slopes SE.  
Descend 35 ft.,over SW.slope.  
21.50 Wash,10 lks.wide, course SE.  
Ascend 50 ft.,over E.slope.  
27.20 Same road, brs.NW and SE.  
31.40 Ridge, brs.N.and S.  
Descend 70 ft., over W.slope,to

## BOOK 3674

## 6 Resurvey of part of the South bdy. of Township 14 South Range 10 East

- chains.
- 40.01. (40.00 chs. in westing from cor. of secs. 4, 5, 32 and 33),  
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for reestablished  $\frac{1}{4}$  sec. cor. of sec. 32 only,  
with brass cap, marked
- 1/4 S 32  
1925
- No bearing trees available. Raise a mound of stone, 3 ft  
base, 2 ft. high, N. of cor.  
Enter gently rolling land.  
Descend gradually over W. slope, to
- 43.88 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 5 and 32, which  
is a malpais stone, 12x5x6 ins. above ground, firmly  
set, marked  $\frac{1}{4}$  on N. face, and witnessed by a mound of  
stone, N. of cor. No trace of the original bearing  
trees NW. and SE. of cor.  
This cor. monument being a good durable stone, and likely  
to remain in good condition, consider it unnecessary  
to set iron post alongside.  
Alter the cor. monument to refer to the quarters of sec. 5  
only by marking " $\frac{1}{4}$ " on S. face of stone, obliterating  
the old marking on N. face, destroying the old mound of  
stone, N. of cor., and raising a new mound of stone, 3  
ft. base, 2 ft. high, S. of cor.  
No bearing trees available.  
Thence,  
S. 87° 39' W., on true line, continuing measurement of S. bdy.  
of sec. 32.  
Over gently rolling land, thru scattering timber and under-  
growth.  
Descend gradually over W. slope.
- 48.68 Same road, brs. NE. and SW.
- 50.57 Wash, 10 lks. wide, course SW.
- 76.18 Descend gradually over gently rolling SW. slope.
- 79.07 Road, brs. NW. and SE.
- 80.04 Wash, 30 lks. wide, course SE.  
Ascend gradually over SE. slope, to  
(80.00 chs. in westing from cor. of secs. 4, 5, 32 and 33),  
Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the  
ground to bed rock, deposit a stone marked with a cross  
(x) at base of post, and raise a mound of stone around  
post, for reestablished cor. of secs. 31 and 32 only,  
with brass cap, marked
- T14S | R10E  
S31 | S32  
S 5  
T15S | R10E  
1925
- No bearing trees available.  
Land, rolling and gently rolling.  
Soil, gravelly and rocky, 3rd rate.  
Timber, palo verde and ironwood.  
Undergrowth, greasewood, catclaw and cactus.
- 
- S. 87° 39' W., on true line, on S. bdy. of sec. 31.  
Over gently rolling land, thru scattering timber and  
undergrowth.  
Ascend gradually over SE. slope, to
- 4.34 Intersect the original cor. of secs. 5, 6, 31 and 32, which is  
a malpais stone, 15x12x12 ins. above ground, firmly set,  
marked with 1 notch on W. face, and 5 notches on E. face,  
and witnessed by two bearing trees:  
An ironwood, 5 ins. in diam., S. 1° E., 196 lks.  
dist., marked T15S R10E S5 BT.



Resurvey of part of South bdy of Township 14 South Range 10 East. 7

Chains

An ironwood, 6 ins. in diam., S. 30° E., 167 lks. dist., marked T15S R10E S5 BT. and a mound of stone 3 ft. base, 2 ft. high, W. of cor. This cor. monument being a good durable stone, and likely to remain in good condition, consider it unnecessary to set iron post alongside.

Alter this cor. monument to refer to secs. 5 and 6 only, by destroying the old mound of stone, W. of cor., and raising a new mound of stone, 3 ft. base, 2 ft. high, S. of cor. Thence, S. 87° 37' W., on a true line, continuing measurement of S. bdy. of sec. 31.

Ascend gradually over gently rolling SE. slope, to (40.00 chs. in westing from cor. of secs. 31 and 32) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor. of sec. 31 only, with brass cap, marked

1/4 S 31

1925

No bearing trees available. Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Ascend gradually over SE. slope, to

44.64 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 6 and 31, which is a malpais stone, 12x6x8 ins. above ground, firmly set, marked  $\frac{1}{4}$  on N. face, and witnessed by a mound of stone 3 ft. base, 2 ft. high, N. of cor. No trace of the two original bearing trees NW. of cor.

This cor. monument being a good durable stone, and likely to remain in good condition, consider it unnecessary to set an iron post alongside.

Alter this cor. monument to refer to the quarters of sec. 6 only by marking " $\frac{1}{4}$ " on S. face of stone, obliterating the old marking on N. face, destroying the old mound of stone, N. of cor., and raising a new mound of stone, 3 ft. base, 2 ft. high, S. of cor.

No bearing trees available. Thence, S. 87° 27' W., on true line, continuing measurement of S. bdy. of sec. 31.

47.14 Ascend gradually over gently rolling SE. slope, to Wash, 10 lks. wide, course SE. Thence over nearly level land,

58.75 Wash, 10 lks. wide, course SE.

70.53 Wash, 10 lks. wide, course S.

78.74 Wash, 20 lks. wide, course S.

79.94 Intersect the cor. of Ts. 14 and 15 S., Rs. 9 and 10 E., described in Books "B" and "I" of this group.

Land, gently rolling and nearly level.  
 Soil, gravelly, 2nd rate.  
 Timber, ironwood and palo verde.  
 Undergrowth, greasewood, catclaw and cactus.

8 Retracement of part of the Subdivision lines of T. 14 S., R. 10 E.  
Chains.

The subdivision lines of the N.  $\frac{1}{2}$  and the southeast quarter of this township were surveyed by P. Contzen, U.S.D.S. in 1903, and no retracement or resurvey of any part of same is of record.

The following notes describe the retracement of part of the section lines bounding the SW. quarter of the township.

	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the township, hereinbefore described, North, on random line, bet. secs. 33 and 34 (S. $\frac{1}{2}$ ). Over mountainous land, thru. scattering timber and undergrowth.
15.10	Descend 185 ft., over NE. slope, to Wash, 15 lks. wide, course NE. Enter gently rolling land. Ascend gradually over SE. slope.
21.90	Road, brs. NE. and SW.
37.30	Descend 52 ft., over NE. slope, to
50.94	Fall 2 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 33 and 34, which is a sandstone 10x8x5 ins. above the ground, firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by a mound of stone, W. of cor., and two bearing trees: An ironwood, 10 ins. in diam., N. $81\frac{1}{2}^{\circ}$ E., 269 lks. dist., marked $\frac{1}{4}$ S 34 BT. Palo verde, 10 ins. in diam., S. $81\frac{1}{2}^{\circ}$ W., 72 lks. dist., marked $\frac{1}{4}$ S 33 BT. True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 33 and 34 are therefore N. $0^{\circ} 2' W.$ , 50.94 chs.
	Thence, North, on random line, bet. secs. 33 and 34 (N. $\frac{1}{2}$ ). Over gently rolling land, thru. scattering timber. Descend gradually over NE. slope.
1.50	Road, brs. NE. and SW.
4.20	Wash, 20 lks. wide, course E. Continue gradual descent, over E. and NE. slopes to sec. cor.
9.00	Road, brs. E. and W.
24.10	Wash, 20 lks. wide, course NE.
28.50	Wash, 20 lks. wide, course NE.
39.60	Road, brs. E. and W.
40.08	Fall 1 lk. E. of the original cor. of secs. 27, 28, 33 and 34, which is a granite stone 8x8x8 ins. above ground, firmly set, marked 1 notch on S. edge, and 3 notches on E. edge, and witnessed by a mound of stone 3 ft. base, 2 ft. high, W. of cor., and two bearing trees: An ironwood, 6 ins. in diam., S. $42\frac{1}{2}^{\circ}$ E., 93 lks. dist., marked T14S R10E S34 BT. An ironwood, 8 ins. in diam., N. $39\frac{3}{4}^{\circ}$ W., 149 lks. dist., marked T14S R10E S28 BT. No trace of the original NE. and SW. bearing trees. True course and dist. of N. $\frac{1}{2}$ of line, bet. secs. 33 and 34 are therefore, N. $0^{\circ} 1' W.$ , 40.08 chs. The boundary of the Papago Indian Reservation extends E. and W. thru. the above described sec. cor., identical with the sec. lines, the land to the N. thereof being within said Reservation. Land, mountainous and gently rolling. Soil, gravelly and rocky, 3rd rate. Timber, palo verde and ironwood. Undergrowth, greasewood and cactus. Scattering giant cactus.
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	North, on random line, bet. secs. 27 and 28, (S. $\frac{1}{2}$ ). Over gently rolling land, thru. scattering timber and undergrowth.
4.70	Wash, 20 lks. wide, course NE.
6.40	Wash, 30 lks. wide, course W.

Retracement of part of Subdivision lines of T.14 S. R. 10 E. 9

Chains.  
 17.85 Wash, 20 lks.wide, course E. Enter nearly level land.  
 39.60 Wash, 10 lks.wide, course E.  
 40.10 Fall 10 lks.E. of the original  $\frac{1}{4}$  sec.cor.of secs.27 and 28, which is a sandstone, 12x6x5 ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face, and witnessed by two bearing trees:  
 A mesquite, 6 ins.in diam., N.80°E., 144 lks. dist., marked  $\frac{1}{4}$  S 27 BT.  
 A palo verde, 10 ins.in diam., S.50°W., 181 lks. dist., marked  $\frac{1}{4}$  S 28 BT.  
 True course and dist. of S. $\frac{1}{2}$  of line, bet. secs.27 and 28 are therefore, N.0°9'W., 40.10 chs.  
 Land, gently rolling and nearly level.  
 Soil, sandy and gravelly, 2nd and 3rd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

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 The original cor.of secs.17, 18, 19 and 20 is a sandstone 8x12x5 ins. above ground, firmly set, marked 3 notches on S.edge, and 5 notches on E.edge, and witnessed by a mound of stone, W.of cor., and four bearing trees as follows:  
 A palo verde, 8 ins. in diam., N.59 $\frac{1}{2}$ °E., 50 lks. dist., marked T14S R10E S17 BT.  
 A palo verde, 8 ins.in diam., S.73 $\frac{3}{4}$ °E., 44 lks. dist., marked T14S R10E S20 BT.  
 A palo verde, 8 ins.in diam., S.43 $\frac{1}{2}$ °W., 24 lks. dist., marked T14S R10E S19 BT.  
 An ironwood, 5 ins.in diam., N.31 $\frac{3}{4}$ °W., 18 lks. dist., marked T14S R10E S18 BT.

Thence,  
 West, on random line, bet. secs.18 and 19 (E. $\frac{1}{2}$ ).  
 Over mountainous land, thru. scattering timber and undergrowth.  
 Ascend 95 ft., over NE.slope.  
 9.00 Spur, slopes NW.  
 Descend 59 ft., over W.slope.  
 15.00 Wash, 10 lks.wide, course NW. Enter rolling land.  
 Ascend 15 ft., over NE. slope.  
 18.08 Spur, slopes NW.  
 Descend 30 ft., over W.slope.  
 25.00 Wash, 10 lks.wide, course NW.  
 Ascend 32 ft., over NE. slope.  
 28.87 Spur, slopes NW.  
 Descend 47 ft., over W.slope.  
 36.40 Wash, 10 lks.wide, course NW.  
 Ascend 23 ft., over NE.slope.  
 38.80 Spur, slopes NW.  
 Descend 12 ft., over W.slope, to  
 39.87 Fall 52 lks.N. of the original  $\frac{1}{4}$  sec.cor.of secs.18 and 19, which is a basalt stone, 10x6x6 ins. above ground, firmly set, marked  $\frac{1}{4}$  on N. face, and witnessed by two bearing trees:  
 A palo verde, 8 ins. in diam., N.64 $\frac{1}{2}$ °E., 63 lks. dist., marked  $\frac{1}{4}$  S 18 BT.  
 A palo verde, 6 ins.in diam., S.37°E., 24 lks. dist., marked  $\frac{1}{4}$  S 19 BT.  
 True course and dist. of E. $\frac{1}{2}$  of line, bet. secs.18 and 19 are therefore, S.89°16'W., 39.87 chs.  
 Land, mountainous and rolling.  
 Soil, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde, ironwood and mesquite.  
 Undergrowth, greasewood and cactus.  
 Scattering giant cactus.

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## 10 Resurvey of part of Subdivision lines of T.14 S., R.10 E.

Chains.

The following notes describe the resurvey of the N.  $\frac{1}{2}$  of line, bet. secs. 27 and 28, all of the line bet. secs. 21 and 22, all of line bet. secs. 16 and 21, and W.  $\frac{1}{2}$  of line bet. secs. 18 and 19.

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Retracement for Resurvey.

- From original  $\frac{1}{4}$  sec. cor. of secs. 27 and 28, hereinbefore described,  
 North, on random line, bet. secs. 27 and 28 (N.  $\frac{1}{4}$ ).  
 40.08 Fall 12 lks. E. of the original cor. of secs. 21, 22, 27 and 28, hereinafter described.  
 True course and distance of N.  $\frac{1}{2}$  of line, bet. secs. 27 and 28, are therefore, N. 0° 10' W., 40.08 chs.
- North, on random line, bet. secs. 21 and 22 (S.  $\frac{1}{2}$ ).  
 40.11 Fall 11 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 21 and 22, hereinafter described.  
 True course and dist. of S.  $\frac{1}{2}$  of line, bet. secs. 21 and 22 are therefore, N. 0° 9' W., 40.11 chs.  
 Thence,  
 North, on random line, bet. secs. 21 and 22 (N.  $\frac{1}{2}$ ).  
 40.01 Fall 10 lks. E. of the original cor. of secs. 15, 16, 21 and 22, hereinafter described.  
 True course and distance of N.  $\frac{1}{2}$  of line, bet. secs. 21 and 22 are therefore, N. 0° 9' W., 40.01 chs.
- From cor. of secs. 15, 16, 21 and 22,  
 West, on random line, bet. secs. 16 and 21 (E.  $\frac{1}{2}$ ).  
 40.00 Fall, 5 lks. N. of the original  $\frac{1}{4}$  sec. cor. of secs. 16 and 21, hereinafter described.  
 True course and dist. of E.  $\frac{1}{2}$  of line, bet. secs. 16 and 21, are therefore S. 89° 56' W., 40.00 chs.  
 Thence,  
 West, on random line, bet. secs. 16 and 21 (W.  $\frac{1}{2}$ ).  
 40.04 Fall 16 lks. N. of the original cor. of secs. 16, 17, 20 and 21, hereinafter described.  
 True course and dist. of W.  $\frac{1}{2}$  of line, bet. secs. 16 and 21, are therefore S. 89° 46' W., 40.04 chs.
- From original  $\frac{1}{4}$  sec. cor. of secs. 18 and 19, hereinbefore described,  
 West, on random line, bet. secs. 18 and 19 (W.  $\frac{1}{2}$ ).  
 40.48 Fall 5 lks. N. of the cor. of secs. 18 and 19 on the W. bdy. of the Tp., described in Book "I," of this group.  
 True course and dist. of W.  $\frac{1}{2}$  of line, bet. secs. 18 and 19, are therefore S. 89° 16' W., 40.48 chs.

-----  
RESURVEY.

- From original  $\frac{1}{4}$  sec. cor. of secs. 27 and 28, hereinbefore described,  
 N. 0° 10' W., on true line, bet. secs. 27 and 28 (N.  $\frac{1}{2}$ ).  
 Over nearly level land, thru scattering timber and undergrowth.  
 9.20 Wash, 15 lks. wide, course NE.  
 16.00 Road, brs. E. and W.  
 25.90 Wash, 10 lks. wide, course E.  
 32.50 Road, brs. NW. and SE.  
 40.08 Intersect the original cor. of secs. 21, 22, 27 and 28, which is a granite stone 8x4x6 ins. above ground, firmly set, marked with 2 notches on S. edge, and 3 notches on E. edge, and witnessed by one bearing tree:  
 A palo verde, 6 ins. in diam., S. 49° W., 116 lks. dist., marked T14S R10E S28 BT.  
 No trace of the original bearing trees NE., SE., and NW. of cor.  
 This cor. monument being insufficiently witnessed, reestablish bearing trees to same as follows:

Resurvey of part of Subdivision lines of Township 14 S., R. 10 E. 11

Chains.

- A palo verde, 4 ins. in diam., brs. N. 55 1/2° E., 43 lks. dist., marked T14S R10E S22 BT.
- A palo verde, 8 ins. in diam., brs. S. 5° E., 184 lks. dist., marked T14S R10E S27 BT.
- A palo verde, 14 ins. in diam., brs. N. 76° W., 254 lks. dist., marked T14S R10E S21 BT.

Land, nearly level.  
 Soil, sandy and gravelly, 2nd and 3rd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

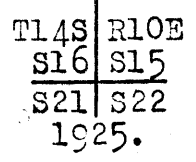
N. 0° 9' W., on a true line, bet. secs. 21 and 22 (S. 1/2).  
 Over nearly level land, thru. scattering timber and undergrowth.

- 12.00 Wash, 10 lks. wide, course NE.
- 12.60 Road, brs. NW. and SE.
- 17.00 Road, brs. E. and W.
- 24.00 Wash, 10 lks. wide, course E.
- 26.00 Road, brs. NW. and SE.
- 40.11 Intersect the original 1/4 sec. cor. of secs. 21 and 22, which is a sandstone 16x6x8 ins. above the ground, firmly set, marked "1/4" on W. face, and witnessed by two bearing trees:
  - A palo verde, 10 ins. in diam., S. 83° E., 38 lks. dist., marked 1/4 S 22 BT.
  - A palo verde, 10 ins. in diam., S. 21° W., 12 lks. dist., marked 1/4 S 21 BT.

Thence,  
 N. 0° 9' W. on true line, bet. secs. 21 and 22 (N. 1/2).  
 Over nearly level land, thru. scattering timber and dense undergrowth.

- 15.90 Wash, 20 lks. wide, course E.
- 40.01 Intersect the original cor. of secs. 15, 16, 21 and 22, which is a calcareous stone, 12x12x6 ins. above ground, loosely set, marked with 3 notches on each of S. and E. edges, and witnessed by four bearing trees:
  - A palo verde, 6 ins. in diam., N. 23° E., 280 lks. dist., marked T14S R10E S15 BT+
  - An ironwood, 8 ins. in diam., S. 87 3/4° E., 108 lks. dist., marked T14S R10E S22 BT.
  - An ironwood, 5 ins. in diam., N. 37 1/2° W., 210 lks. dist., marked T14S R10E S16 BT.
  - An ironwood, 6 ins. in diam., S. 48 1/2° W., 94 lks. dist., marked T14S R10E S21 BT+

The cor. stone bears signs of disintegration; therefore, reconstruct the cor. monument as follows:  
 Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone for cor. of secs. 15, 16, 21 and 22, with brass cap, marked



Land, nearly level.  
 Soil, sandy and gravelly, 2nd and 3rd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and catclaw.

S. 89° 56' W., on a true line, bet. secs. 16 and 21 (E. 1/2).  
 Over nearly level land, thru. scattering timber and undergrowth.

- 36.50 Wash, 40 lks. wide, course N.

BOOK 3674

BOOK 3674

## 12 Resurvey of part of Subdivision lines of T. 14 S., R. 10 E.

Chains 40.00	<p>Intersect the original <math>\frac{1}{4}</math> sec. cor. of secs. 16 and 21, which is a sandstone 8x4x4 ins. above ground, firmly set, marked <math>\frac{1}{4}</math> on N. face, and witnessed by one bearing tree: A palo verde, 7 ins. in diam., N. 19° W., 181 lks. dist., marked <math>\frac{1}{4}</math> S 16 BT.</p> <p>No trace of the original bearing tree SW. of cor. The stone cor. monument brs. signs of disintegration, and is too small for the purpose; therefore, reconstruct this cor. monument as follows: Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. of secs. 16 and 21, with brass cap, marked</p> <p style="text-align: center;"><math>\frac{1}{4}</math> S 16 S 21 1925</p> <p>This cor. being insufficiently witnessed, establish an additional bearing tree as follows: A palo verde, 4 ins. in diam., brs. S. 29<math>\frac{1}{2}</math>° E., 144 lks. dist., marked <math>\frac{1}{4}</math> S 21 BT.</p> <p>Thence S. 89° 46' W., on a true line, bet. secs. 16 and 21 (W. <math>\frac{1}{2}</math>). Over nearly level land, thru. scattering timber and undergrowth.</p>
19.60	Road, brs. NW. and SE.
24.20	Wash, 10 lks. wide, course NE.
40.04	<p>Intersect the original cor. of secs. 16, 17, 20 and 21, which is a sandstone, 10x6x6 ins. above ground, firmly set, marked with 3 notches on S. edge, and 4 notches on E. edge, and witnessed by three bearing trees: A palo verde, 8 ins. in diam., N. 9<math>\frac{1}{2}</math>° E., 47 lks. dist., marked T14S R10E S16 BT. A palo verde, 5 ins. in diam., S. 37<math>\frac{1}{2}</math>° E., 59 lks. dist., marked T14S R10E S21 BT. An ironwood, 6 ins. in diam., S. 72<math>\frac{1}{2}</math>° W., 53 lks. dist., marked T14S R10E S20 BT.</p> <p>No trace of the original bearing tree NW. of cor.; therefore, establish a new bearing tree in sec. 17, as follows: An ironwood, 6 ins. in diam., brs. N. 29<math>\frac{1}{2}</math>° W., 104 lks. dist., marked T14S R10E S17 BT.</p> <p>Land, nearly level. Soil, sandy and gravelly, 2nd and 3rd rate. Timber, palo verde and ironwood. Undergrowth, greasewood and cactus.</p>
4.70	<p>From original <math>\frac{1}{4}</math> sec. cor. of secs. 18 and 19, hereinbefore described, S. 89° 16' W., on true line, bet. secs. 18 and 19 (W. <math>\frac{1}{2}</math>). Over rolling land, thru. scattering timber and undergrowth. Descend 29 ft., over W. slope.</p>
11.80	<p>Wash, 10 lks. wide, course NW. Descend gradually over NW. slope, to Enter wash, 20 lks. wide, course W. from SE.</p>
17.80	<p>Descend gradually in wash, to Leave wash, course NW. from E. Ascend gradually over NE. slope.</p>
25.40	Wash, 40 lks. wide, course NE.
29.90	Wash, 20 lks. wide, course NE. Enter mountainous land.
40.48	<p>Ascend 68 ft., over SE. slope, to Intersect the cor. of secs. 18 and 19 on the W. bdy. of the Tp., described in Book "I" of this group. Land, rolling and mountainous. Soil, gravelly and rocky, 3rd and 4th rate. Timber, palo verde and ironwood. Undergrowth, greasewood and cactus.</p>

Survey of part(completion)of Subdivision lines of T.14 S. R.10 E. 13

Chains.

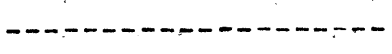
The following notes describe the survey of the section lines of the SW. quarter of the Tp., which completes the subdivision of the township:

Sections 19, 20, 21, 28, 29 and 30 are entirely within the Papago Indian Reservation, the 1st latitudinal section line forming part of the boundary of said Reservation. The west half of the south boundary of the Tp., retraced and resurveyed as hereinbefore described, is defective in alignment; therefore, preliminary to the survey of the Subdivision lines, begin at the cor. of secs. 27, 28, 33 and 34, and survey a Sectional Correction Line due west, setting temp. 1/4 sec. and sec. cors. alternately at intervals of 40.00 chs. The meridional section lines bet. secs. 32 and 33, and bet. secs. 31 and 32 are then surveyed from their respective cors. on S. bdy. of Tp., parallel to the E. bdy. of sec. 33, with proper allowance for convergency, and at points where such meridional sec. lines intersect the Sectional Correction Line the permanent sec. cors. referring to the South two tiers of sections are established.

The permanent 1/4 sec. cors. on the Sectional Correction Line are then established at midpoints bet. the sec. cors., with the exception of the 1/4 sec. cor. of secs. 30 and 31, which is established at 40.00 chs. West from the cor. of secs. 29, 30, 31 and 32. The 1/4 sec. cors. of secs. 31 and 32, and of secs. 32 and 33, are then established on the meridional sec. lines at 40.00 chs. in southing from the Sectional Correction Line, determined by random lines run South from said Sectional Correction Line.

After completion of survey of the subdivision lines of south tier of sections, the survey of the remaining subdivision lines is initiated from the sec. cors. on the Sectional Correction Line, surveying the meridional section lines of the second tier of sections parallel to the E. bdy. of sec. 28, with proper allowance for convergency, and surveying the meridional section lines of the third tier of sections by random lines parallel to E. bdy. of sec. 21 with convergency allowance, and true lines on the southerly course determined by the fallings of the random lines on the original section corners on the third latitudinal section line, placing the 1/4 sec. cors. at midpoints where the mile measurement is not defective.

The section line between sections 19 and 30 is surveyed due west to point of intersection with W. bdy. of Tp., where closing cor. is established, and the 1/4 sec. cor. of said sections is established at 40.00 chs. west from cor. of secs. 19, 20, 29 and 30, placing the excess measurement against the W. bdy. of the Tp.



- From temp. cor. of secs. 28, 29, 32 and 33, on the Sectional Correction Line,
- 40.00 S. 0° 2' E., on random line, bet. secs. 32 and 33.
- 89.26 Set temp. 1/4 sec. cor.
- Fall 32 lks. E. of the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., hereinbefore described.
- Thence,
- 6.10 N. 0° 2' W., on true line, bet. secs. 32 and 33.
- Over rolling land, thru. scattering timber and undergrowth.
- Ascend gradually over E. slope, to
- 17.40 Wash, 15 lks. wide, course SE.
- Ascend gradually over SW. slope, to 1/4 sec. cor.
- 42.30 Wash, 10 lks. wide, course SW.
- 49.26 Wash, 20 lks. wide, course SW.
- Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post; and raise a mound of stone

14 Survey of part (completion) of Subdivision lines of T.14 S.R.10 E.  
Chains.

around post for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\begin{array}{c} \dagger \\ | \\ \text{S32} | \text{S33} \\ | \\ 1925 \end{array}$

No bearing trees available.

Continue over rolling land, thru scattering timber and undergrowth.

53.00 Ascend gradually over SW.slope, to Wash, 20 lks.wide, course SW.

64.20 Ascend 70 ft., over SW.slope, to Enter mountainous land.

88.60 Ascend 365 ft., over SW.slope.

Top of hill on ridge, bearing NW. and SE.

89.26 Descend 22 ft. over steep NE.slope, to

Intersect the Sectional Correction Line at 32 lks.W.from temp.cor.of secs.28, 29, 32 and 33, or, 80.32 chs.west from cor.of secs. 27, 28, 33 and 34.

At point of intersection, set an iron post 3 ft.long, 2 ins.in diam., 6 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for cor.of secs. 28, 29, 32 and 33, with brass cap, marked

$\begin{array}{c} \text{T14S} | \text{R10E} \\ \text{S29} | \text{S28} \\ \text{S32} | \text{S33} \\ 1925 \end{array}$

No bearing trees available.

The boundary of the Papago Indian Reservation extends E. and W. thru this sec.cor., identical with the section lines, the land to the N.being within said Reservation.

Land, rolling and mountainous.

Soil, sandy and rocky, 3rd and 4th rate.

Timber, palo verde.

Undergrowth, greasewood and cactus.

From the cor.of secs.27, 28, 33. and 34, hereinbefore described,

West, on a true line, on Sectional Correction Line, bet. secs.28 and 33.

Over gently rolling land, thru scattering timber and undergrowth.

9.00 Ascend gradually over NE.slope, to Wash, 10 lks.wide, course NE. Enter rolling land.

33.10 Ascend 72 ft., over NE.slope, to Wash, 10 lks.wide, course NE. Enter mountainous land.

39.90 Ascend 116 ft., over NE.slope.

Top of ascent on N.side of hill, the top of which brs.S. 4 chs.dist.

40.16 Descend slightly over N.slope, to Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\begin{array}{c} \dagger \text{S } 28 \\ | \\ \text{S } 33 \\ | \\ 1925 \end{array}$

from which,

A palo verde, 4 ins.in diam., brs.S.  $28\frac{1}{2}^{\circ}$ E., 21 lks.dist., marked  $\frac{1}{4}$  S 33 BT.

A palo verde, 4 ins.in diam., brs.N.  $81\frac{1}{2}^{\circ}$ W., 41 lks.dist., marked  $\frac{1}{4}$  S 28 BT.

Thence over rolling N.slope.

Descend slightly to



Survey of part(completion) of Subdivision lines of T.14 S.R.10 E. 15

Chains.

52.82 Draw, course NE. Enter mountainous land.  
 Ascend 536 ft., over steep E. and NE. slopes, to  
 80.32 The cor. of secs. 28, 29, 32 and 33.  
 Land, gently rolling, rolling and mountainous.  
 Soil, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood and cactus.

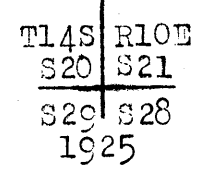
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 N.0°10'W., bet. secs. 28 and 29.  
 Over mountainous land, thru. scattering timber and under-  
 growth.

17.40 Descend 440 ft., over steep NE. slope, to  
 Head of ravine, course NE. Enter rolling land.  
 Descend 75 ft., over NE. slope, to  
 29.00 Wash, 10 lks. wide, course NE.  
 Descend gradually over E. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the  
 ground to bed rock, deposit a stone, marked with a cross  
 (x) at base of post, and raise a mound of stone around  
 post for 1/4 sec. cor., with brass cap, marked



No bearing trees available.  
 Continue over rolling land, thru. scattering timber and  
 undergrowth.

50.00 Descend 40 ft., over E. slope.  
 Wash, 10 lks. wide, course E. Enter mountainous land.  
 Ascend 78 ft., over S. slope.  
 57.00 Top of ascent on W. side of hill, the top of which brs.  
 E. 3 chs. dist.  
 Descend 125 ft., over NW. slope.  
 72.20 Wash, 10 lks. wide, course NE. Enter gently rolling land.  
 Descend gradually over NE. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the  
 ground to bed rock, deposit a stone marked with a  
 cross (x) at base of post, and raise a mound of stone  
 around post for cor. of secs. 20, 21, 28 and 29, with brass  
 cap, marked



No bearing trees available.  
 Land, mountainous, rolling and gently rolling.  
 Soil, gravelly and rocky, 3rd rate.  
 Timber, palo verde.  
 Undergrowth, greasewood and cactus.

-----  
 East, on a random line, bet. secs. 21 and 28.  
 40.00 Set temp. 1/4 sec. cor.  
 80.24 Fall 29 lks. S. of cor. of secs. 21, 22, 27 and 28.  
 Thence  
 S. 89° 48' W., on a true line, bet. secs. 21 and 28.  
 Over gently rolling land, thru. scattering timber and  
 undergrowth.  
 Ascend gradually over NE. slope to 1/4 sec. cor.  
 2.79 Road, brs. NW. and SE.  
 25.54 Wash, 20 lks. wide, course NE.  
 31.84 Wash, 10 lks. wide, course NE.  
 40.12 Set an iron post, 3 ft. long, 1 in. in diam., 22 ins. in  
 the ground, to bed rock, supported in a mound of stone,

16 Survey of part (completion) of Subdivision lines of T.14 S.R.10 E.

Chains.

for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$  S 21  
 $\frac{1}{4}$  S 28  
 1925

from which,

An ironwood, 4 ins.in diam., brs.N.78°E.,36  
lks.dist., marked  $\frac{1}{4}$  S 21 BT.

An ironwood, 6 ins. in diam., brs.S.51°W.,46  
lks.dist., marked  $\frac{1}{4}$  S 28 BT.

Continue over gently rolling land, thru.scattering timber  
and undergrowth.

Ascend gradually over NE.slope to sec.cor.

52.24 Wash, 20 lks.wide, course NE.

76.04 Wash, 10 lks.wide, course NE.

80.24 The cor.of secs.20,21,28 and 29.

Land, gently rolling, gravelly and rocky.

Soil, gravelly and rocky, 2nd and 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood and cactus.

40.00 N.0°10'W., on a random line, bet. secs.20 and 21.

Set temp. $\frac{1}{4}$  sec.cor.

80.08 Fall 15 lks.W.of the cor.of secs.16,17,20 and 21, herein-  
before described.

Thence,

S.0°4'E., on a true line, bet. secs.20 and 21.

Over nearly level land, thru. scattering timber and under-  
growth.

Ascend slightly to

1.28 Enter rolling land.

Ascend 75 ft., over NE.slope, to

11.30 Enter mountainous land,

Ascend 85 ft., over steep NE.slope.

16.13 Spur, slopes SE.

Descend 29 ft., over SW.slope, to

25.32 Descend 145 ft., over steep S.slope, to

35.00 Foot of steep descent, brs.E.and W. Enter gently rolling  
land.

Descend slightly over S.slope, to

40.04 Set an iron post, 3 ft.long, 1 in. in diam., 8 ins.in the  
ground to bed rock, deposit a stone marked with a  
cross (x) at base of post, and raise a mound of stone  
around post, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$   
 S20 | S21  
 1925

No bearing trees available.

Continue over gently rolling land, thru.scattering timber  
and undergrowth.

Descend slightly over S.slope, to

51.28 Wash, 20 lks.wide, course NE.

Ascend gradually over NE.slope to sec.cor.

53.68 Wash, 20 lks.wide, course NE.

54.98 Road, brs.E.and W.

79.38 Wash, 10 lks.wide, course NE.

80.08 The cor.of secs.20,21,28 and 29.

Land, nearly level, rolling, mountainous and gently rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, palo verde and ironwood.

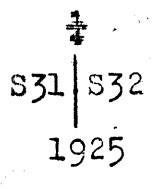
Undergrowth, greasewood and cactus.

From temp. cor.of secs.29, 30, 31 and 32 on the Sectional  
Correction Line,

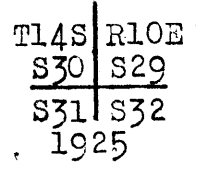
Survey of part (completion) of Subdivision lines of T.14 S. R.10 E. 17

Chains.

S.0°3'E., on a random line, bet.secs. 31 and 32.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 92.08 Fall 40 lks.E. of the reestablished cor.of secs. 31 and 32, on the S. bdy.of the Tp., hereinbefore described.  
 Thence,  
 N.0°3'W., on true line, bet. secs.31 and 32.  
 Over gently rolling land, thru. scattering timber and undergrowth.  
 Ascend gradually over SE.slope, to  
 0.80 Wash, 30 lks.wide, course SE.  
 Ascend over SW.slope to  $\frac{1}{4}$  sec.cor.  
 3.10 Road, brs.NW. and SE.  
 27.00 Wash, 20 lks.wide, course SW.  
 52.08 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked



No bearing trees available. Raise a mound of stone 3 ft. base, 2 $\frac{1}{2}$  ft.high, W.of cor.  
 Continue over gently rolling land, thru.scattering timber and undergrowth.  
 Ascend gradually to sec.cor.  
 73.10 Wash, 10 lks.wide, course SW.  
 87.90 Wash, 20 lks.wide, course SW.  
 92.08 Intersect the Sectional Correction Line at a point 40 lks.W.of the temp.cor.of secs.29,30,31 and 32, or 80.08 chs.W. of the cor.of secs. 28,29, 32 and 33.  
 At the point of intersection, set an iron post 3 ft.long, 2 ins.in diam., 12 ins.in the ground to bed rock, supported in a mound of stone for cor.of secs.29,30,31 and 32, with brass cap, marked



from which,  
 A palo verde, 4 ins.in diam., brs.N.27°E., .96 lks.dist., marked T14S R10E S29 BT.  
 A palo verde, 4 ins.in diam., brs.S.55 $\frac{1}{2}$ °E., .154 lks.dist., marked T14S R10E S32 BT.  
 A palo verde, 4 ins.in diam., brs.S.55 $\frac{1}{2}$ °W., .102 lks.dist., marked T14S R10E S31 BT.  
 A palo verde, 4 ins. in diam., brs.N.24°W., .154 lks.dist., marked T14S R10E S30 BT.

Land, gently rolling.  
 Soil, sandy, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

From the cor.of secs.28,29, 32 and 33,  
 West, on true line, on Sectional Correction Line, bet. secs.29 and 32.

Over mountainous land, thru. scattering timber and undergrowth.  
 Ascend 30 ft., over steep NE.slope.  
 0.90 Ridge, brs.NW. and SE.  
 Descend 257 ft., over SW.slope, to  
 25.80 Wash, 15 lks.wide, course SW.  
 Descend 28 ft., over S.slope, to  
 32.80 Wash, 15 lks.wide, course SE.  
 Ascend 128 ft., over steep NE.slope, to  
 40.04 Set an iron post, 3 ft.long, 1 in.in diam., 12 ins. in the ground to bed rock, deposit a stone marked with a

18 Survey of part (completion) of Subdivision lines of T.14 S.R.10 E.

Chains.

cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

S 29  
S 32  
1925

- No bearing trees available.
- Ascend 53 ft., over steep NE.slope, to
- 42.80 Ridge, brs.NW. and SE.
- Descend 192 ft., over steep SW.slope, to
- 54.50 Wash, 10 lks.wide, course NW. Enter rolling land.
- Ascend 30 ft., over NE.slope, to
- 60.00 Top of ascent on N.side of hill, the top of which brs.S. about 10 chs.dist.
- Descend 60 ft., over NW.slope.
- 73.10 Same wash, 20 lks.wide, course SW. Enter gently rolling land.
- Descend slightly over S.slope, to
- 80.08 The cor.of secs.29, 30, 31 and 32.
- Land, mountainous, rolling and gently rolling.
- Soil, gravelly and rocky, 3rd and 4th rate.
- Timber, palo verde.
- Undergrowth, greasewood and cactus.

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From the cor.of secs.29, 30, 31 and 32, West, on a true line, on Sectional Correction line, bet. secs.30 and 31.

- Over gently rolling land, thru. scattering timber and undergrowth.
- Descend gradually over SW.slope.
- 9.60 Wash, 10 lks.wide, course SW.
- 21.50 Wash, 10 lks.wide, course S. Enter rolling land.
- Ascend 41 ft., over SE.slope.
- 32.86 Point of spur, slopes S.
- Descend 23 ft., over SW.slope.
- 36.30 Wash, 10 lks.wide, course SE.
- Ascend gradually over E.slope, to
- 40.00 Set an iron post, 3 ft.long, 1 in.in diam., 14 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for  $\frac{1}{4}$  sec.cor., with brass cap, marked

S 30  
S 31  
1925

- No bearing trees available.
- Continue over rolling land, thru.scattering timber and undergrowth.
- Ascend 66 ft., over E. slope.
- 55.00 Spur, slopes SE.
- Descend 29 ft., over SW. slope.
- 57.20 Wash, 10 lks.wide, course SE.
- Ascend 120 ft., over gradual E.slope, to
- 77.94 Enter mountainous land.
- Ascend 25 ft., over E.slope, to
- 79.80 Intersect W. bdy. of the Tp. at a point 15.71 chs.N.0°10' W. from the cor.of secs.25 and 36, T.14 S., R.9 E., described in Book "I" of this group.
- At point of intersection,
- Set an iron post 3 ft.long, 2 ins. in diam., 26 ins. in the ground for closing cor. of secs. 30 and 31, with brass cap, marked

T14S	T14S
S25	S30 CC
	S31
R9E	R10E
1925	

Survey of part(completion)of Subdivision lines of T.14 S. R.10 E. 10

Chains.

No bearing trees available. Raise a mound of stone 3 ft. base, 2 ft.high, E.of cor. Land, gently rolling, rolling and mountainous. Soil, gravelly and rocky, 3rd and 4th rate. Timber, palo verde and ironwood. Undergrowth, greasewood and cactus.

From cor. of secs.29,30, 31 and 32, N.0°11'W., bet. secs.29 and 30. Over gently rolling land, thru. scattering timber and undergrowth.

1.00 Ascend slightly over S.slope, to Enter mountainous land.

4.80 Ascend 133 ft., over steep S.slope, to Top of malpais cliff, 50 ft. high, bearing NE. and NW., facing S.; thence over gently rolling land.

40.00 Ascend gradually over S.slope, to Set an iron post, 3 ft.long, 1 in.in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec.cor., with brass cap, marked

S30 | S29  
1925

from which,

An ironwood, 4 ins.in diam., brs.N.66°E., 146 lks. dist., marked 1/4 S 29 BT.

An ironwood, 6 ins.in diam., brs.S.24°W., 186 lks. dist., marked 1/4 S 30 BT.

Continue over gently rolling land, thru. scattering timber and undergrowth:

49.98 Ascend 33 ft., over E.slope.. Descend gradually over NE. slope,

61.90 Wash, 10 lks.wide, course SE.

Ascend 20 ft., over SE.slope, to

71.10 Top of malpais cliff, 60 ft.high, brs.NW. and SE.facing NE. Enter mountainous land.

80.00 Descend 245 ft., over steep NE. slope, to

Set an iron post, 3 ft.long, 2 ins.in diam., on surface rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor.of secs. 19, 20, 29 and 30, with brass cap, marked

T14S | R10E  
S19 | S20  
S30 | S29  
1925

No bearing trees available. Land, gently rolling and mountainous. Soil, gravelly and rocky, 3rd and 4th rate. Timber, palo verde and ironwood. Undergrowth, greasewood and catclaw.

40.00 East, on a random line, bet. secs. 20 and 29. Set temp. 1/4 sec.cor.

80.00 Fall 12 lks.S. of the cor.of secs. 20, 21, 28 and 29.

Thence, S.89°55'W., on a true line, bet.secs. 20 and 29.

Over gently rolling land, thru. scattering timber and dense undergrowth.

Ascend gradually over NE.slope, to 1/4 sec.cor.

.50 Wash, 10 lks.wide, course NE.

15.20 Wash, 30 lks.wide, course NE.

## 20 Survey of part (completion) of Subdivision lines of T.14 S.R.10 E.

Chains.

32.40 Wash, 20 lks.wide, course NE.  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 8 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$  S 20  
 S 29  
 1925

No bearing trees available.  
 Continue over gently rolling land, thru. scattering timber and dense undergrowth.

Ascend gradually over NE.slope.

44.70 Wash, 10 lks.wide, course NE.

47.70 Wash, 20 lks.wide, course NE.

50.40 Wash, 10 lks.wide, course NE.

65.60 Wash, 10 lks.wide, course NE.

69.50 Wash, 10 lks.wide, course NE.

Enter mountainous land.

80.00 Ascend 170 ft., over steep NE.slope, to

The cor.of secs. 19;20, 29 and 30.

Land, gently rolling and mountainous.

Soil, gravelly and rocky, 3rd and 4th rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood and cactus.

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 West, on true line, bet. secs.19 and 30.

Over mountainous land, thru. scattering timber and undergrowth.

6.80 Ascend 322 ft., over steep NE.slope, to

Top of malpais cliff, 120 ft.high, bearing NW and SE., facing NE. Enter rolling land,

Ascend 47 ft., over E.slope.

28.00 Ridge, brs.NW. and SE. Enter mountainous land.

Descend 195 ft., over steep W.slope, to

37.46 Enter rolling land.

Descend 15 ft., over NW.slope, to

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 8 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$  S 19  
 S 30  
 1925

No bearing trees available.

40.90 Enter mountainous land.

Descend 190 ft., over NW.slope, to

62.30 Wash, 10 lks.wide, course NW. Enter rolling land.

Ascend 30 ft., over NE.slope.

66.85 Top of ascent on N.side of hill, the top of which brs. S.100 lks.dist,

Descend 50 ft., over NW.slope.

77.60 Wash, 30 lks.wide, course NW. Enter nearly level land.

Ascend slightly over NE.slope, to

80.05 Intersect the W. bdy.of the Tp., at a point 15.68 chs.N.0° 10'W.from the cor.of secs. 24 and 25, T.14 S., R.9 E., described in Book "I."

At point of intersection, Set an iron post 3 ft.long, 2 ins.in diam., 8 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for closing cor.of secs. 19 and 30, with brass cap, marked

Chains.

TL4S	TL4S	
	S19	CC
S24	S30	
R9E	R10E	
	1925	

No bearing trees available.  
 Land, mountainous, rolling and nearly level.  
 Soil, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

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From cor. of secs. 19, 20, 29 and 30,  
 N.0°11'W., on a random line, bet. secs. 19 and 20.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.88 Fall 10 lks. W. of the original cor. of secs. 17, 18, 19 and 20,  
 hereinbefore described.  
 Thence,  
 S.0°7'E., on a true line, bet. secs. 19 and 20.  
 Over mountainous land, thru. scattering timber and under-  
 growth.  
 Ascend 135 ft., over steep NE. slope.  
 8.00 Spur, slopes NW.  
 Ascend gradually over W. slope, to  
 10.58 Wash, 10 lks. wide, course NW.  
 Ascend 212 ft., over steep N. slope.  
 27.30 Top of hill in ridge, bearing E. and W.  
 Descend 266 ft., over steep S. slope, to  
 39.25 Enter rolling land.  
 Descend slightly over S. slope, to  
 39.94 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the  
 ground to bed rock, deposit a stone, marked with a  
 cross (x) at base of post, and raise a mound of stone  
 around post, for  $\frac{1}{4}$  sec. cor., with brass cap, marked

	S19	S20
	1925	

No bearing trees available.  
 Continue over rolling land, thru. scattering timber and  
 undergrowth.  
 Descend 62 ft., over S. slope, to  
 57.38 Wash, 20 lks. wide, course SE.  
 Descend 15 ft., over SE. slope.  
 61.08 Wash, 20 lks. wide, course E. Enter mountainous land.  
 Ascend 200 ft., over steep NE. slope, to  
 79.88 Intersect the cor. of secs. 19, 20, 29 and 30.  
 Land, mountainous and rolling.  
 Soil, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

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The continued satisfactory adjustment of the solar appa-  
 ratus of the instrument used in the execution of the  
 retracements, resurveys and surveys described in the  
 foregoing notes is indicated from field tests describ-  
 ed in Book "L" of this group.

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Boundaries of S.W. $\frac{1}{4}$  of Township 14 South, Range 10 East.

Latitudes, Departures and Closing Errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	N.89°50'W.	40.19	.12			40.19
	N.87°43'W.	40.07	1.59			40.04
	S.88°37'W.	43.88		1.06		43.87
	S.87°39'W.	40.50		1.66		40.46
	S.87°37'W.	40.30		1.68		40.26
	S.87°27'W.	35.30		1.57		35.27
West boundary,	N.0°10'W.	254.55	254.55			.75
Subdivisional boundary,	N.89°16'E.	80.35	1.03		80.34	
	East,	80.00			80.00	
	N.89°46'E.	40.04	.16		40.04	
	N.89°56'E.	40.00	.05		40.00	
	S.0°9'E.	80.12		80.12	.21	
	S.0°10'E.	40.08		40.08	.12	
	S.0°9'E.	40.10		40.10	.10	
	S.0°1'E.	40.08		40.08	.01	
S.0°2'E.	50.94		50.94	.02		
Convergency,					.12	
Totals,			257.50	257.29	240.96	240.84
			257.29		240.84	
Error in latitude,			0.21			
Error in departure,					0.12	

#### GENERAL DESCRIPTION.

The surface of the SW. $\frac{1}{4}$  of T.14 S., R.10 E. is mountainous, rolling, gently rolling and nearly level. The mountains are part of the range known as the Roskrige mountains. About one fourth of the total area is mountainous, about one fourth is rolling, and about one half is gently rolling and nearly level, the gently rolling surface predominating in area over the nearly level.

The soil over the mountainous part is gravelly and rocky, 4th rate, and over the remainder is sandy and gravelly, 2nd and 3rd rate.

The timber, consisting of palo verde, ironwood and mesquite is scattering in all sections.

The undergrowth, consisting of greasewood, catclaw and cactus is scattering in all sections, and dense in parts of secs. 20, 21 and 29.

There is a scattering growth of giant cactus over the greater part. The grass is poor.

There are no permanent flowing streams, and no springs. The only water supply at present is a shallow well in the SW. $\frac{1}{4}$  of sec. 20.

There is no evidence of valuable mineral deposits.

No settlers reside in this part of the township, and the only improvement is a corral at the above mentioned well in sec. 20.



GENERAL DESCRIPTION, continued.

A road from the well and corral, easterly thru. secs. 20 and 21, a road NW. and SE., thru. sec. 21, and a road thru. the southern parts of secs. 31, 32, and 33, constitute the only roads in this part of the township.



BOOK 3674

Book "J"

4-680

**FIELD ASSISTANTS.**  
to

Charles E. Hunter, U. S. Transitman,

NAMES.	CAPACITY.
Leroy R.Hansen,	1st chainman,
Charles F.Elerick,	2nd chainman,
Oswald E.Recroft,	flagman,
Charles Knight,	cornerman,
Gordon F.Jackson,	axman.

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Charles E. Hunter, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 100, Arizona, bearing date of the 25th day of September, 1919, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, retraced all those parts or portions of the South boundary and the Subdivision lines; resurveyed all those parts or portions of the Subdivision lines; and surveyed all those parts or portions of the Subdivision lines of TOWNSHIP 14 SOUTH, RANGE 10 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona, and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said retracement, resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 100, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement, resurvey and survey.

Place: Phoenix, Arizona
Date: October 28, 1925

Charles E. Hunter
U. S. Transitman

APPROVAL.

OFFICE OF UNITED STATES SUPERVISOR OF SURVEYS,

Denver, Colorado, November 25 1925.

The foregoing field notes of the retracement of part of the South boundary and part of the Subdivision lines, and of the resurvey of part of South boundary, and part of the Subdivision lines; and of the survey of part (completion) of the Subdivision lines of TOWNSHIP 14 SOUTH, RANGE 10 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Charles E. Hunter, U. S. Transitman,

under his special instructions dated September 25, 1919, for Group 100, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys and surveys they describe, are hereby approved.

Martin Johnson
U.S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above described surveys in has been correctly copied from the original notes on file in this office.