

3665

Book "A"
4-679

BOOK 3665

FIELD NOTES

OF THE RETRACEMENT OF

Part of the South boundary, and

Part of the Subdivision lines, and

OF THE RESURVEY OF

Part of the South and East, boundaries, and

Part of the Subdivision lines, and

OF THE SURVEY OF

Part (completion) of the Subdivision lines,

all of

TOWNSHIP 16 SOUTH, RANGE 8 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Guy R. Veal, U. S. Surveyor,
Karl Siebecker, U. S. Transitman,
and

Charles E. Hunter, U.S. Transitman,

In the capacity of U. S. Surveyors, 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 March 19, 1920,
and December 1, 1924.

Retracement,
Resurvey and Survey commenced April 3, 1920.

Retracement,
Resurvey and Survey completed April 29, 1920.

Reestablishment of 1/4 sec. cor. of secs. 5 and 32, on S. buy. of Tp.,
by Charles E. Hunter, U. S. T., Feb. 17, 1925.

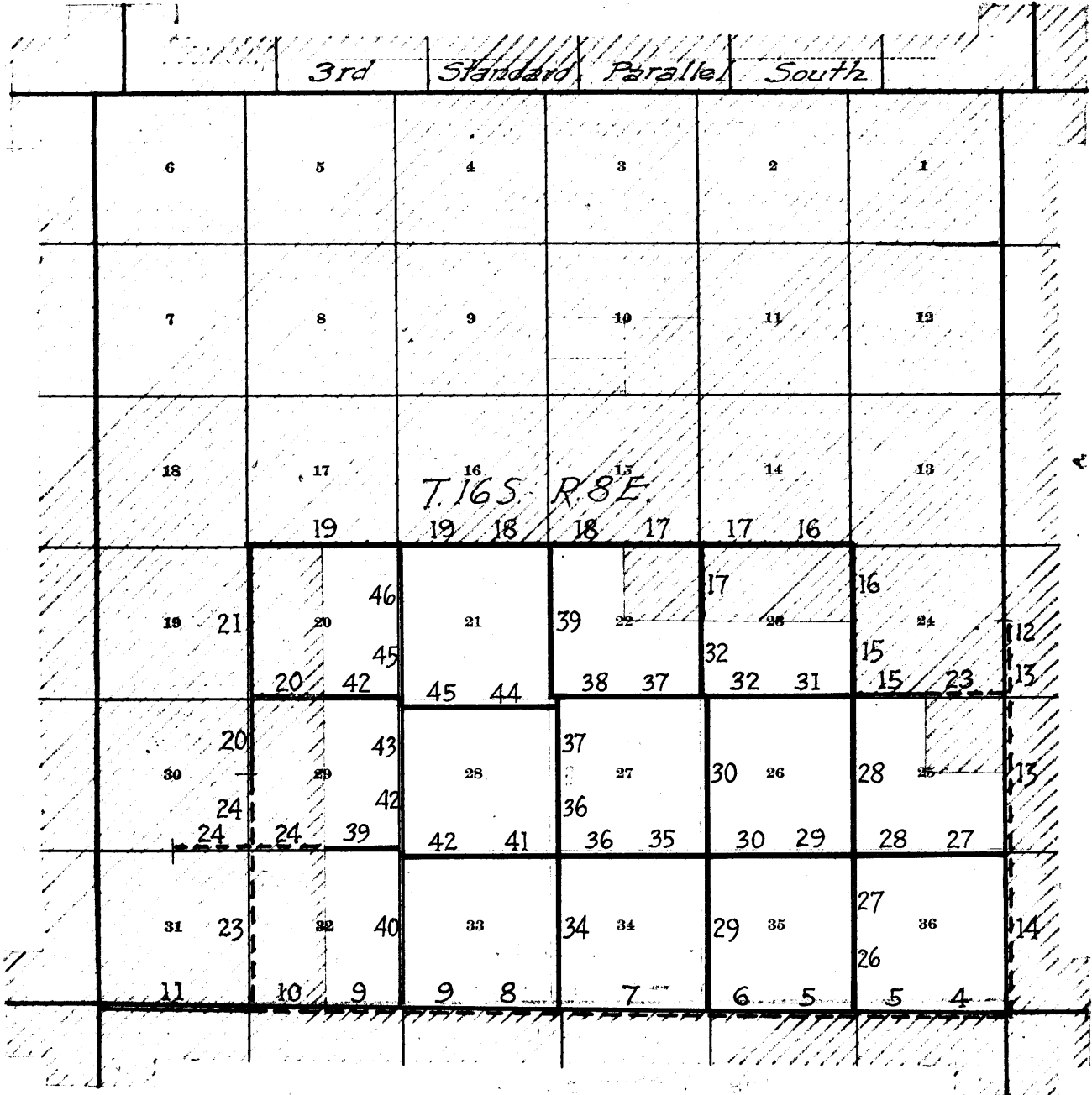
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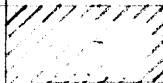
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Book "A"
Group 100 - Arizona

BOOK 3665

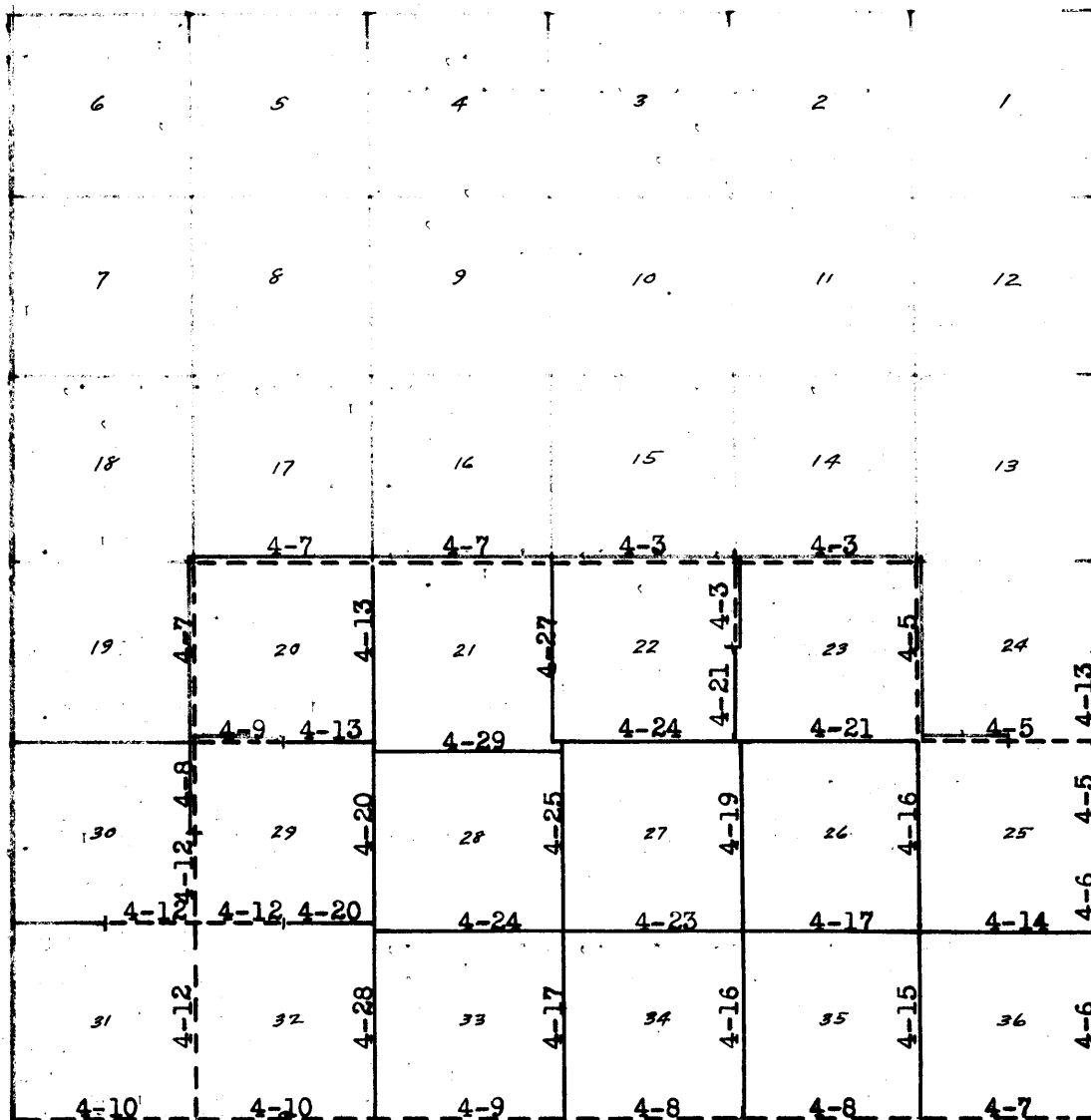
INDEX DIAGRAM.



-  *Lines surveyed under this group.*
-  *Lines resurveyed under this group.*
-  *Lines retraced under this group.*
-  *Accepted surveys.*
-  *Areas surveyed as per accepted plats on file.*

1b

Book "A"
 Group 100, Arizona,
 Township 16 South, Range 8 East,
 DATE DIAGRAM.
 1920.



↖ $\frac{1}{4}$ sec. cor. of secs. 5 and 32 reestablished by Charles E. Hunter, U. S. T., Feb. 17, 1925.

- surveyed
 - - - retraced
 - - - resurveyed
- } by Guy R. Veal, U. S. S., on dates shown thereon.
- surveyed
 - - - retraced
 - - - resurveyed
- } by Karl L. Siebecker, U.S.T., on dates shown thereon.
- Accepted surveys.

Retracements, Resurveys and Surveys, hereinafter described, executed by Guy R. Veal, U. S. Surveyor and Karl L. Siebecker, U. S. Transitman on dates shown on diagram on page 1 hereof, using respectively Buff and Buff transit No. 9939 and Young and Sons transit No. 8522. Both instruments are equipped with full vertical circles and the Smith solar attachments. Unless otherwise specified all azimuth determinations are accomplished with the solar attachments.

March 31, 1920: We examine the adjustment of each instrument and correct all errors; then to test the solar apparatus by comparing their indications from observations made during a. m. and p. m. hours with a meridian established by Polaris observation proceed as follows:

At camp near the center of sec. 10, T. 16 S., R. 8 E., Gila and Salt River Base and Meridian, Arizona, in latitude $32^{\circ} 02' 48''$ N., long. $111^{\circ} 31' 23''$ W., at 6 h. 52 m., p. m., l. m. t., observe Polaris at western elongation, with Buff and Buff transit, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground 5 chs. N.

Azimuth of Polaris at western elongation = $1^{\circ} 19' 16''$.

April 1, 1920: At 7 h. 30 m., a. m., l. m. t., lay off the azimuth of Polaris $1^{\circ} 19'$ to the east, and mark the meridian thus determined by a tack in a peg driven firmly in the ground 5 chs. N.

At 8 h. 0 m., a. m., l. m. t., set off $32^{\circ} 3'$ N. on the latitude arcs, $4^{\circ} 36\frac{1}{2}'$ N. on the declination arcs and determine meridians with the solars. The meridian determined with the Buff and Buff transit agrees with the true meridian, and the one determined with the Young and Sons transit falls $\frac{1}{2}'$ to the right.

At app. noon with the latitude arcs unchanged observe the sun on the meridian; the resulting reading of the declination arc of each instrument is $4^{\circ} 40'$ N., which agrees with the computed declination of the sun.

At 4 h. 0 m., p. m., l. m. t., with the latitude arcs unchanged, set off $4^{\circ} 44'$ N. on the declination arcs and determine meridians with the solars. The meridian determined with the Buff and Buff transit falls $\frac{1}{2}'$ to the right of the true meridian and the one determined with the Young and Sons transit falls $1'$ to the left of the true meridian.

As all of the solar observations during the usual hours of solar work come within $1' 30''$ of the true meridian, conclude that the adjustments of the instruments are satisfactory.

Unless otherwise specified all measurements are made with Lufkin steel tapes, compared with a standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined and the slope measurements properly reduced to true horizontal distances.

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains The south boundary of T. 16 S., R. 8 E., was surveyed in 1884 by J. C. Smith, U. S. D. S., establishing all sec. and $\frac{1}{4}$ sec. cors. thereon with a common reference to areas on both sides of the line. No retracement or resurvey of any part of the line is of record. The following notes describe a resurvey of the east five miles of the line.

As all of the land south of the line and sec. 31 and W. $\frac{1}{2}$ of sec. 32, T. 16 S., R. 8 E., is embraced within previously accepted surveys the resurvey of the line is dependent upon existing corners for alinement, and all missing corners, referring to such accepted surveyed areas, must be reestablished by proportionate measurement between existing corners.

As secs. 33, 34, 35 and 36, and E. $\frac{1}{2}$ of sec. 32, T. 16 S., R. 8 E., are unsurveyed, new corners referring thereto may be reestablished on the township boundary at regular intervals.

In the resurvey described in the following notes the cor. of secs. 35 and 36, only, is reestablished on the township boundary at a point due south from the cor. of secs. 23, 24, 25 and 26, T. 16 S., R. 8 E., and the cor. of secs. 32 and 33, due south from the cor. of secs. 16, 17, 20 and 21.

The $\frac{1}{4}$ sec. cor. of sec. 36, only, is then reestablished on the township boundary at 40.00 chs. easting from the cor. of secs. 35 and 36, and the remaining $\frac{1}{4}$ sec. and sec. cors. on the east 4 miles of the township boundary, referring to areas in T. 16 S., R. 8 E., only, are reestablished at intervals of 40.00 chs. in westing, counting from the cor. of secs. 35 and 36, placing the excess measurement in the W. $\frac{1}{2}$ of S. bdy. of sec. 33. The $\frac{1}{4}$ sec. cor. of secs. 5 and 32, and the cor. of secs. 5, 6, 31 and 32 are reestablished by proportionate measurement between existing corners and retain their original common reference.

Preliminary to the resurvey make retracement of the township boundary to determine the bearing or bearings upon which the resurvey is dependent.

Retracement for Resurvey.

From the original cor. of Ts. 16 and 17 S., Rs. 8 and 9 E., hereinafter described.

N. $89^{\circ} 47'$ W., (record course) on random line, on N. bdy. of sec. 1 (E. $\frac{1}{2}$).

39.70 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36, hereinafter described.

The true course and distance of the E. $\frac{1}{2}$ of the N. bdy. of sec. 1 are, therefore, N. $89^{\circ} 47'$ W., 39.70 chs.

Thence

N. $89^{\circ} 47'$ W., on a random line, searching diligently at record intervals for the original sec. and $\frac{1}{4}$ sec. cors., and setting temporary corners at such intervals. Fail to find a trace of any old cor. monument until at

444.24 Fall 362 lks. S. of the original cor. of Ts. 16 and 17 S., Rs. 7 and 8 E., hereinafter described.

Chains The true course and dist. of township boundary from original $\frac{1}{4}$ sec. cor. of secs. 1 and 36 to this township corner are, therefore, N. $89^{\circ} 19' W.$, 444.27 chs., which, to maintain the original proportions bet. cor. intervals gives ten intervals of 40.48 chs. each and one interval of 39.47 chs. for the re-establishment of the missing corners.

RESURVEY.

The original cor. of Ts. 16 and 17 S., Rs. 8 and 9 E., is a limestone, 9 x 8 x 8 ins. above ground, firmly set, marked with 6 notches on each of E., W., N. and S. edges and witnessed by a mound of stone S. of cor. No bearing trees. This cor. monument, being a good durable stone, no reconstruction is necessary and as it retains its original reference and is properly marked and witnessed. No change in marking or accessory is required.

Thence

N. $89^{\circ} 47' W.$, on true line, on S. bdy. of sec. 36.

Over mountainous land, thru dense undergrowth.

Desc. 30 ft. over SW. slope.

6.60 Wash, 10 lks. wide, course SE. Asc. 265 ft. over broken E. slope.

21.90 Spur, slopes S. Desc. 183 ft. over W. slope.

28.80 Foot of descent, bears S. and NW. Thence over gently rolling land, thru scattering timber and undergrowth.

Descend 22 ft. over SW. slope to.

39.70 Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 1 and 36, which is a limestone 10 x 8 x 8 ins. above ground, firmly set, marked $\frac{1}{4}$ on N. face and witnessed by a mound of stone N. of cor. No bearing trees.

Reconstruct this cor. monument and alter same to refer to the quarters of sec. 1, only, as follows.

Alongside old cor. stone set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 1, only, marked on brass cap

$\frac{1}{4}$ S 1
1920

From which

Mesquite, 6 ins. in diam., bears S. $44\frac{1}{2}^{\circ} E.$, 199 lks. dist., marked $\frac{1}{4}$ S 1 B T.

Mesquite, 4 ins. in diam., bears S. $20\frac{1}{2}^{\circ} W.$, 211 lks. dist., marked $\frac{1}{4}$ S 1 B T.

Thence

N. $89^{\circ} 19' W.$, on a true line, continuing measurement of S. bdy. of sec. 36.

Over nearly level land, thru scattering timber and dense undergrowth.

42.64 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. 36, only, marked on brass cap

$\frac{1}{4}$ S 36
1920

From which

Mesquite, 4 ins. in diam., bears N. $27\frac{1}{2}^{\circ} W.$, 132 lks. dist., marked $\frac{1}{4}$ S 36 B T.

Mesquite, 7 ins. in diam., bears N. $10^{\circ} W.$, 116 lks. dist., marked $\frac{1}{4}$ S 36 B T.

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains Continue over nearly level land, thru scattering timber and dense undergrowth.
 43.90 Wire fence, bears N. and S.
 55.30 Wash, 10 lks. wide, course S.
 75.00 Wash, 10 lks. wide, course SE.
 80.18 (40.48 chs. from $\frac{1}{4}$ sec. cor. of sec. 1). Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for reestablished cor. of secs. 1 and 2, only, marked on brass cap

T 16 S R 8 E
 S 36
 S 2 | S 1
 T 17 S R 8 E
 1920

From which

Mesquite, 10 ins. in diam., bears S. $82\frac{1}{2}^{\circ}$ E., 176 lks. dist., marked T 17 S R 8 E S 1 B T.

Palo verde, 6 ins. in diam., bears S. $36\frac{1}{2}^{\circ}$ W., 134 lks. dist., marked T 17 S R 8 E S 2 B T.

81.00 Wash, 10 lks. wide, course SE.

82.64 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for reestablished cor. of secs. 35 and 36, only, marked on brass cap

T 16 S R 8 E
 S 35 | S 36
 S 2
 T 17 S R 8 E
 1920

From which

Mesquite, 6 ins. in diam., bears N. $7\frac{1}{2}^{\circ}$ E., 149 lks. dist., marked T 16 S R 8 E S 36 B T.

Mesquite, 8 ins. in diam., bears N. $13\frac{1}{2}^{\circ}$ W., 271 lks. dist., marked T 16 S R 8 E S 35 B T.

Land; mountainous, gently rolling and nearly level.

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

Timber; palo verde and mesquite.

Undergrowth; scrub palo verde, scrub mesquite and cactus.

N. $89^{\circ} 19'$ W., on a true line on S. bdy. of sec. 35.

Over nearly level land, thru scattering timber and dense undergrowth.

4.26 Wash, 15 lks. wide, course SE.

8.60 Dim road, bears SE. and NW.

15.96 Rim of gulch, hrs. NW. and SE. Enter mountainous land. Desc. 151 ft. over precipitous, broken, SW. slope.

20.86 Wash, 40 lks. wide, containing a stream of water 3 lks. wide, 2 ins. deep, course SE. in bottom of gulch.

Asc. 210 ft. over steep, broken, NE. slope to

33.36 Point of spur, slopes NW. Desc. 80 ft. over broken NW. slope to

38.02 (40.48 chs. from cor. of secs. 1 and 2). Set an iron post, 3 ft. long, 1 in. in diam., on rock, supported in a mound of stone for reestablished $\frac{1}{4}$ sec. cor. of sec. 2 only, marked on brass cap

$\frac{1}{4}$ S 2
 1920

From which

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

- Chains Mesquite, 4 ins. in diam., bears S. 20° E., 71 lks. dist., marked $\frac{1}{4}$ S 2 B T.
 Mesquite, 4 ins. in diam., bears S. 61° W., 275 lks. dist., marked $\frac{1}{4}$ S 2 B T.
 Desc. 53 ft. over NW. slope.
- 39.90 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to reestablished $\frac{1}{4}$ sec. cor. of sec. 35, only, marked on brass cap
- WC $\frac{1}{4}$ S 35
1920
- From which
 Mesquite, 6 ins. in diam., bears N. 66 $\frac{1}{2}$ ° W., 165 lks. dist., marked $\frac{1}{4}$ S 35 WCBT
 Mesquite, 4 ins. in diam., bears N. 20 $\frac{3}{4}$ ° W., 141 lks. dist., marked $\frac{1}{4}$ S 35 WCBT
- 40.00 True point for reestablishment of $\frac{1}{4}$ sec. cor. of sec. 35 falls in head of gulch, course NE., where it would be unsafe to set monument, therefore establish witness cor. at 0.10 chs. S. 89° 19' E., herefrom as described above. Asc. 250 ft. over E. slope.
- 48.60 Spur, slopes N. Desc. 150 ft. over broken NW. slope.
- 54.36 Head of gulch, course N. Asc. 544 ft. over steep NE. slope to
- 78.50 (40.48 chs. from $\frac{1}{4}$ sec. cor. of sec. 2) 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 reestablished cor. of secs. 2 and 3, only, marked on brass cap
- T 16 S R 8 E
 S 35
 S 3 | S 2
 T 17 S R 8 E
 1920
- From which
 A red oak, 17 ins. in diam., bears S. 67° E., 85 lks. dist., marked T 17 S R 8 E S 2 B T.
 No other bearing tree available.
 Ascend 34 ft. over steep NE. slope to
- 80.01 (80.00 chs. in westing from cor. of secs. 35 and 36) 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 reestablished cor. of secs. 34 and 35, only, marked on brass cap
- T 16 S R 8 E
 S 34 | S 35
 S 3
 T 17 S R 8 E
 1920
- From which
 Mesquite, 12 ins. in diam., bears N. 7 $\frac{1}{2}$ ° W., 74 lks. dist., marked T 16 S R 8 E S 34 B T.
 No other bearing tree available.
 Land; nearly level and mountainous.
 Soil; E. 16. chs. sandy loam, 2nd rate, W. 64 chs. rocky, 3rd and 4th rate.
 Timber; mesquite and oak.
 Undergrowth; cactus and mescal.

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains N. 89° 19' W., on a true line on S. bdy. of sec. 34.
 Over mountainous land, thru scattering timber and under-
 growth. Ascend 32 ft. over NE. slope
 1.16 Spur, slopes N. Desc. 210 ft. over broken NW. slope.
 19.90 Head of gulch, course N. Asc. 365 ft. over broken NE.
 slope to
 38.75 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for witness cor. to the reestablished $\frac{1}{4}$
 sec. cor. of sec. 3, only, marked on brass cap

W C $\frac{1}{4}$ S 3
 1920

From which
 Red oak, 16 ins. in diam., bears S. 65° E., 26 lks.
 dist., marked $\frac{1}{4}$ S 3 WCBT
 Red oak, 14 ins. in diam., bears S. 13° W., 24 lks.
 dist., marked $\frac{1}{4}$ S 3 WCBT
 38.97 (40.48 chs. from cor. of secs. 2 and 3) True point for
 reestablishment of $\frac{1}{4}$ sec. cor. of sec. 3, only, falls
 on precipitous slope where it is impracticable to
 set monument, therefore, establish witness cor. at
 0.22 chs. S. 89° 19' E., herefrom as described above.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground to bed rock, supported in a mound of stone
 for reestablished $\frac{1}{4}$ sec. cor. of sec. 34, only, mark-
 ed on brass cap

$\frac{1}{4}$ S 34
 1920

From which
 Red oak, 18 ins. in diam., bears N. 29 $\frac{3}{4}$ ° E., 74 lks.
 dist., marked $\frac{1}{4}$ S 34 B T.
 Red oak, 6 ins. in diam., bears N. 49 $\frac{1}{2}$ ° W., 33 lks.
 dist., marked $\frac{1}{4}$ S 34 B T.

Ascend 105 ft. over steep NE. slope.
 44.80 Spur, slopes N. Desc. 150 ft. over broken NW. slope.
 57.36 Gulch, course North. Asc. 390 ft. over broken NE. slope
 to
 79.45 (40.48 chs. from point for $\frac{1}{4}$ sec. cor. of sec. 3).
 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins.
 in the ground to bed rock, supported in a mound of
 stone for reestablished cor. of secs. 3 and 4, only,
 marked on brass cap

T 16 S R 8 E
 S 34
 S 4 | S 3
 T 17 S R 8 E
 1920

From which
 Red oak, 18 ins. in diam., bears S. 72° E., 77 lks.
 dist., marked T 17 S R 8 E S 3 B T.
 Red oak, 7 ins. in diam., bears S. 60 $\frac{1}{2}$ ° W., 51 lks.
 dist., marked T 17 S R 8 E S 4 B T.

Ascend.
 80.01 (80.00 chs. westing from cor. of secs. 34 and 35).
 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 reestablished cor. of secs. 33 and 34,
 only, marked on brass cap

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains

T 16 S R 8 E.
S 33 | S 34
 S 4
 T 17 S R 8 E
 1920

From which

Red oak, 7 ins. in diam., bears N. 16° E., 39 lks.
 dist., marked T 16 S R 8 E S 34 B T.

Red oak, 7 ins. in diam., bears N. 26½° W., 70 lks.
 dist., marked T 16 S R 8 E S 33 B T.

Land; mountainous.

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

Timber; oak.

Undergrowth; cactus, catclaw, mesquite and ocotillo.

N. 89° 19' W., on a true line on S. bdy. of sec. 33.

Over mountainous land, thru scattering timber and undergrowth. Asc. 110 ft. over broken NE. slope.

3.36 Point of spur, slopes N. Desc. 70 ft. over NW. slope.

9.35 Bottom of gulch, containing a stream of water 1 lk. wide, 1 in. deep, course N. 70° E., near head. Asc. 925 ft. over steep broken E. slope.

32.00 Main ridge of Coyote Mountains, bears N. 20° E., and S. 20° E. Desc. 273 ft. over NW. slope to

39.92 (40.48 chs. from cor. of secs. 3 and 4). Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor. of sec. 4, only, marked on brass cap

¼ S 4
 1920

From which

Red oak, 6 ins. in diam., bears S. 40° E., 53 lks.
 dist., marked ¼ S 4 B T.

Red oak, 8 ins. in diam., bears S. 67° W., 104 lks.
 dist., marked ¼ S 4 B T.

Descend slightly over NW. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor. of sec. 33, only, marked on brass cap

¼ S 33
 1920

From which

Red oak, 6 ins. in diam., bears N. 11½° E., 17 lks.
 dist., marked ¼ S 33 B T.

Red oak, 6 ins. in diam., bears N. 54° E., 45 lks.
 dist., marked ¼ S 33 B T.

Descend 160 ft. over NW. slope.

46.70 Draw, course NW. Asc. 54 ft. over NE. slope.

55.60 Spur, slopes NW. Desc. 770 ft. over SW. and S. slopes to

76.50 Spur, slopes SW. Descend 112 ft. over steep W. slope to 80.40 (40.48 chs. from ¼ sec. cor. of sec. 4).

Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground for reestablished cor. of secs. 4 and 5, only, marked on brass cap

T 16 S R 8 E
S 33
S 5 | S 4
 T 17 S R 8 E
 1920

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains From which
 Maple, 18 ins. in diam., bears S. 34° E., 116 lks. dist., marked T 17 S R 8 E S 4 B T.
 Maple, 10 ins. in diam., bears S. 49 1/4° W., 124 lks. dist., marked T 17 S R 8 E S 5 B T.
 The boundary of the Papago Indian Reservation extends south from this cor., identical with the sec. line and N. 89° 19' W., identical with the township boundary.
 Descend 25 ft. over W. slope to
 81.28 Set an iron post, 3 ft. long, 2 ins. 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 witness cor. to the reestablished cor. of secs. 32 and 33, only, marked on brass cap

T 16 S R 8 E
 S 32 | S 33
 W C S 5
 T 17 S R 8 E
 1920

No bearing trees available.
 81.56 True point for reestablished cor. of secs. 32 and 33, only, falls on small cliff, where monument cannot be set, therefore, establish witness cor. at 0.28 chs. S. 89° 19' E., herefrom as described above.
 The boundary of the Papago Indian Reservation extends N. from this cor. point identical with the section line and S. 89° 19' E., identical with the township boundary.
 Land; mountainous.
 Soil; sandy and rocky, 3rd and 4th rate.
 Timber; oak, pine and maple.
 Undergrowth; scrub oak, cactus and ocotillo.

From true point for cor. of secs. 32 and 33.
 N. 89° 19' W., on a true line on S. bdy. of sec. 32.
 Over mountainous land, thru scattering timber and dense undergrowth. Desc. 377 ft. over steep broken W. slope.
 14.90 Old Indian trail, bears N. and S.
 16.90 Wash, 20 lks. wide, course N. Asc. 112 ft. over NE. slope.
 23.05 Spur, slopes NE. Desc. 25 ft. over NW. slope.
 25.15 Gulch, course NE. Asc. 363 ft. over broken E. slope to
 39.32 (40.48 chs. from cor. of secs. 4 and 5) 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 reestablished 1/4 sec. cor. of secs. 5 and 32, marked on brass cap

1/4 S 32
 S 5
 1920-25

From which
 White oak, 10 ins. in diam., bears S. 66 3/4° W., 116 lks. dist., marked 1/4 S 5 B T.
 No other bearing tree available.
 Asc. 300 ft. over E. slope to
 50.30 Top of ascent, bears NE. and SW. Thence over rolling top of spur, sloping NE.
 54.30 Desc. 57 ft. over NW. slope to
 58.60 Head of gulch, course NE. Asc. 253 ft. over broken E. slope.

Resurvey of Part of the South Boundary of T. 16 S., R. 8 E.

Chains

73.60 Spur, slopes N. Desc. 190 ft. over W. slope to
 79.80 Set an iron post, 3 ft. long, 2 ins. in diam., in crevice
 of boulder, supported in a mound of stone, for re-
 established cor. of secs. 5, 6, 31 and 32, marked
 on brass cap;

T 16 S R 8 E	
S 31	S 32
S 6	S 5
1920	

From which

White oak, 16 ins. in diam., bears N. $70\frac{1}{4}^{\circ}$ E., 47 lks.
 dist., marked T 16 S R 8 E S 32 B T.

Red oak, 14 ins. in diam., bears S. $5\frac{1}{4}^{\circ}$ E., 78 lks.
 dist., marked T 17 S R 8 E S 5 B T.

Red oak, 10 ins. in diam., bears S. $70\frac{3}{4}^{\circ}$ W., 76 lks.
 dist., marked T 17 S R 8 E S 6 B T.

White oak, 6 ins. in diam., bears N. $76\frac{3}{4}^{\circ}$ W., 27 lks.
 dist., marked T 16 S R 8 E S 31 B T.

Land; mountainous.

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

Timber; oak and pine.

Undergrowth; scrub oak, cactus, mescal and ocotillo.

Retracement of Part of the South Boundary of T. 16 S., R. 8 E.

Chains	<p>From reestablished cor. of secs. 5, 6, 31 and 32, here- inbefore described. N. 89° 19' W., on a true line, bet. secs. 6 and 31. Over mountainous land, thru scattering timber and under- growth. Desc. 46 ft. over W. slope. 3.00 Gulch, course N. Asc. 187 ft. over E. slope. 9.25 Rocky spur, slopes N. Desc. 140 ft. over W. slope. 16.00 Gulch, course N. Thence along broken N. slope. 23.00 Desc. 144 ft. over steep W. slope. 29.00 Gulch, course N. Asc. 250 ft. over E. slope to 40.48 True point for reestablishment of the $\frac{1}{4}$ sec. cor. of secs. 6 and 31. No monument set. Desc. 50 ft. over W. slope to 40.60 Spur, slopes N. 44.00 Gulch, with small stream of water, course N. Asc. 36 ft. over E. slope. 47.00 Spur, slopes N. Desc. 312 ft. over W. slope. 57.75 Prospect hole, bears S. 50 lks. dist. 71.00 Gulch with small stream of water, course N. Asc. 170 ft. over E. slope to 79.95 Intersect the original cor. of Ts. 16 and 17 S., Rs. 7 and 8 E., which is a granite stone 12 x 12 x 10 ins. above ground, firmly set, marked with 6 notches on each of E., W., N. and S. faces and witnessed by a mound of stone S. of cor. No bearing trees. Land; mountainous. Soil; gravelly and rocky, 4th rate. Timber; oak and cedar. Undergrowth; scrub oak, scrub cedar and cactus.</p>
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Resurvey of Part of the East Boundary of T. 16 S., R. 8 E.

Chains The east boundary of T. 16 S., R. 8 E., was surveyed by J. C. Smith, U. S. D. S., in 1884, establishing all corner monuments thereon with a common reference to areas on both sides of the line, and no retracement or resurvey of any part of the line is of record.

The following notes describe a resurvey of the South $2\frac{1}{2}$ miles of the line.

As all of the land east of the line, and Sec. 24 and NE $\frac{1}{4}$ of Sec. 25, T. 16 S., R. 8 E., is embraced within previously accepted surveys, the resurvey is dependent for alignment upon the position of all the existing corners, and missing corners must be reestablished by proportional measurement. Sec. 36 and SE $\frac{1}{4}$ of sec. 25, T. 16 S., R. 8 E., are unsurveyed, therefore, new corners referring to areas W. of line only may be established on the S. $1\frac{1}{2}$ miles of this township boundary and the existing corners or those reestablished by proportion in such part of the line are subject to change to refer to areas E. of the line only, should the survey of the remaining subdivision lines in T. 16 S., R. 8 E., require such procedure.

Retracement for Resurvey.

From the cor. of Ts. 16 and 17 S., Rs. 8 and 9 E., hereinafter described.

North, on random line, searching diligently at record intervals for the original cors., and setting temp. cors. at such intervals.

124.08 Fail to find a trace of any old corner until at Fall 47 lks. E. of the orig. $\frac{1}{4}$ sec. cor. of secs. 25 and 30, hereinafter described.

True course and dist. of the township boundary from this $\frac{1}{4}$ sec. cor. to the cor. of Ts. 16 and 17 S., Rs. 8 and 9 E., are, therefore, S. 0° 13' E., 124.08 chs. which, to maintain the original proportion between corner intervals, gives three intervals of 41.36 chs. each for the reestablishment of the missing corners on such portion of the line.

Thence

40.00 North, on random line. Diligent search in this vicinity fails to reveal any trace of the original corner of secs. 19, 24, 25 and 30. Set temp. cor. Continue line and measurement.

81.30 Fall 87 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 19 and 24, hereinafter described.

The true course and distance of township boundary from this $\frac{1}{4}$ sec. cor. to the $\frac{1}{4}$ sec. cor. of secs. 25 and 30 are, therefore S. 0° 37' E., 81.30 chs., which, to maintain the original proportion gives two intervals of 40.65 chs. each for the reestablishment of the cor. of secs. 19, 24, 25 and 30

R E S U R V E Y .

The original $\frac{1}{4}$ sec. cor. of secs. 19 and 24 is a limestone, 9 x 8 x 6 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by a mound of stone W. of cor. No bearing trees. This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration is necessary.

Thence
S. 0° 37' E., on a true line, bet. secs. 19 and 24 (S. 2)

Resurvey of Part of the East Boundary of T. 16 S., R. 8 E.

Chains Over gently rolling land, thru scattering timber and undergrowth.
 Ascend gradually over NE. slope to sec. cor.
 23.65 Wash, 20 lks. wide, course N. 80° E.
 28.70 Wash, 8 lks. wide, course N. 45° E.
 40.65 (Proportional distance). Set an iron post, 3 ft. long, 2 ins. in diam., 16 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. 19, 24, 25 and 30, marked on brass cap

T 16 S	
R 8 E	R 9 E
S 24	S 19
S 25	S 30
1920	

From which
 Mesquite, 10 ins. in diam., brs. S. 7½° E., 162 lks. dist., marked T 16 S R 9 E S 30 B+T.
 Mesquite, 4 ins. in diam., brs. S. 40° W., 189 lks. dist., marked B T.
 Mesquite, 8 ins. in diam., brs. N. 74½° W., 161 lks. dist., marked T 16 S R 8 E S. 24 B+T.
 No bearing tree available in sec. 19.
 Land; gently rolling.
 Soil; gravelly and rocky, 3rd and 4th rate.
 Timber; mesquite and palo verde.
 Undergrowth; scrub palo verde and cactus.

S. 0° 37' E., on a true line, bet. secs. 25 and 30 (N. 2)
 Over gently rolling land, thru very scattering timber and scattering undergrowth.
 Ascend slightly over NE. slope to.
 1.35 Wash, 30 lks. wide, course N. 10° E. Enter rolling land. Ascend 91 ft. over N. slope.
 23.00 Spur, slopes NE. Enter mountainous land. Descend 32 ft. over SE. slope.
 26.90 Bottom of gulch, 5 lks. wide, course NE. Ascend 226 ft. over steep NW. slope to
 40.65 Intersect the original ¼ sec. cor. of secs. 25 and 30, which is a volcanic stone, 18 x 12 x 10 ins. above ground, firmly set, marked "¼" on W. face 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 alteration is necessary.
 Thence
 S. 0° 13' E., on a true line, bet. secs. 25 and 30 (S. 2).
 Over mountainous land, thru very scattering timber and scattering undergrowth. Asc. 780 ft. over NW. slope.
 31.50 Ridge, brs. NE. and SW. Descend 166 ft. over SE. slope to
 39.50 Ascend 12 ft. over E. slope.
 41.20 Spur, slopes SE. Descend slightly over SW. slope to
 41.36 (Proportional distance). 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 reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap

T 16 S	
R 8 E	R 9 E
S 25	S 30
S 36	S 31
1920	

Resurvey of Part of the East Boundary of T. 16 S., R. 8 E.

Chains	<p>No bearing trees available. Land; gently rolling and mountainous. Soil; gravelly and rocky, 3rd and 4th rate. Timber; mesquite and palo verde. Undergrowth; scrub palo verde, greasewood and cactus.</p>
22.90	<p>S. 0° 13' E., on a true line, bet. secs. 31 and 36. Over mountainous land, thru very scattering timber and scattering undergrowth. Desc. 727 ft. over SW. slope. Wash, 10 lks. wide, in gulch, course E. Asc. 330 ft. over N. slope to</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone for reestablished $\frac{1}{4}$ sec. cor. of sec. 36, only, marked on brass cap</p>
	<p>$\frac{1}{4}$ S 36 1920</p>
	<p>From which Mesquite, 8 ins. in diam., bears S. 33° W., 88 lks. dist., marked $\frac{1}{4}$ S 36 B T. Mesquite, 6 ins. in diam., bears N. 57° W., 22 lks. dist., marked $\frac{1}{4}$ S 36 B T.</p>
41.36	<p>Ascend 36 ft. over N. slope to (Proportional dist.) 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 reestablished $\frac{1}{4}$ sec. cor. of sec. 31, only, marked on brass cap</p>
	<p> $\frac{1}{4}$ S 31 1920</p>
46.60	<p>No bearing trees available. Asc. 245 ft. over N. slope.</p>
70.60	<p>Ridge, brs. E. and W. Desc. 650 ft. over SE. slope to</p>
74.70	<p>Descend gradually over E. slope to</p>
82.72	<p>Spur, slopes SE. Desc. 190 ft. over SW. slope to</p>
	<p>The cor. of Ts. 16 and 17 S., Rs. 8 and 9 E., hereinbefore described.</p>
	<p>Land; mountainous. Soil; sandy and rocky, 3rd rate. Timber; mesquite, palo verde and oak. Undergrowth; scrub mesquite and cactus.</p>

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains The subdivision lines of the North half of the township, the west half of the southwest quarter of the township, the south and west boundaries of sec. 24, and the north half of line bet. secs. 22 and 23 were surveyed by G. J. Roskrugs, U. S. D. S. in 1886 and no retracement or resurvey of any part of these lines is of record.

The following notes describe the retracement of a part of the subdivision lines preliminary to the survey of the remainder of the subdivision lines hereinafter described.

The original $\frac{1}{4}$ sec. cor. of secs. 24 and 25, is a granite stone, 10 x 8 x 5 ins., above ground, firmly set, marked " $\frac{1}{4}$ " on N. face, and witnessed by a mound of stone 5 ft. base, 2 ft. high, N. of cor., and two bearing trees:

Palo verde, 8 ins. in diam., N. 61° E., 72 lks. dist., marked $\frac{1}{4}$ S B T.

Palo verde, 7 ins. in diam., S. 6° E., 90 lks. dist., marked $\frac{1}{4}$ S B T.

This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration is necessary.

Thence

West, on random line, bet. secs. 24 and 25 (W.₂).

Over rolling land, thru very scattering timber and scattering undergrowth.

Ascend gradually over E. slope.

- 8.75 Descend, 35 ft. over NW. slope to
- 12.25 Wash, 10 lks. wide, course NE. Ascend 49 ft. over NE. slope to
- 27.65 Wash, 10 lks. wide, course NE. Ascend 29 ft. over NE. slope to
- 34.05 Wash, 15 lks. wide, course NE. Enter mountainous land. Ascend 108 ft. over SE. slope to.
- 40.75 Fall 122 lks. N. of the original cor. of secs. 23, 24, 25 and 26, which is a granite stone 14 x 12 x 8 ins. above ground, firmly set, marked with 1 notch on E. edge and 2 notches on S. edge and witnessed by a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

This cor. monument being a good durable stone, properly marked and witnessed no reconstruction or alteration is required.

The true course and dist. of W. ₂ of line bet. secs. 24 and 25 are N. 88° 17' W., 40.77 chs.

Land; rolling and mountainous.

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

Timber; palo verde.

Undergrowth; scrub palo verde, mesquite and cactus.

From orig. cor. of secs. 23, 24, 25 and 26.

North, on a random line, bet. secs. 23 and 24 (S.₂).

Over mountainous land, thru very scattering timber and scattering undergrowth.

Ascend 33 ft. over SE. slope.

- 4.11 Spur, slopes NE. Descend 96 ft. over NW. slope.
- 9.40 Wash, 5 lks. wide, in gulch, course NE. Ascend 30 ft. over SE. slope.
- 11.80 Spur, slopes NE. Descend 90 ft. over NW. slope.

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	
16.62	Wash, 10 lks. wide, course NE. Enter rolling land. Descend gradually along E. slope to
27.10	Spur, slopes NE. Descend 40 ft. over N. slope.
33.10	Wash, 15 lks. wide, course NE. Descend 30 ft. over NE. slope to
39.44	Fall 39 lks. W. of the orig. $\frac{1}{4}$ sec. cor. of secs. 23 and 24, which is a granite stone 16 x 14 x 9 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face 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 alteration is necessary.
	The true course and distance of S. $\frac{1}{2}$ of line between secs. 23 and 24 are N. $0^{\circ} 34'$ E., 39.44 chs.
	Thence
	North, on random line, bet. secs. 23 and 24 (N. $\frac{1}{2}$)
	Over rolling land, thru very scattering timber and scattering undergrowth. Descend 126 ft. over NE. slope to
31.37	Wash, 10 lks. wide, course NE. Ascend 15 ft. over SE. slope.
34.18	Spur, slopes NE. Descend 30 ft. over NW. slope.
39.87	Wash, 10 lks. wide, course NE. Descend slightly over NE. slope to
40.17	Fall 21 lks. E. of the orig. cor. of secs. 13, 14, 23 and 24, which is a granite stone, 16 x 12 x 7 ins. above ground, firmly set, marked with 1 notch on E. edge and 3 notches on S. edge and witnessed by a mound of stone, 3 ft. base, 2 ft. high, W. of cor., and 3 bearing trees:
	Mesquite 9 ins. in diam., N. 10° E., 142 lks. dist., marked T 16 S R 8 E S 13 B T.
	Mesquite, 8 ins. in diam., N. 61° E., 149 lks. dist., marked T 16 S R 8 E S 13 B T.
	Mesquite, 8 ins. in diam., N. 77° E., 171 lks. dist., marked T 16 S R 8 E S 13 B T.
	This cor. monument being a good durable stone properly marked and witnessed, no reconstruction or alteration is necessary.
	The true course and dist. of N. $\frac{1}{2}$ of line bet. secs. 23 and 24 are N. $0^{\circ} 18'$ W., 40.17 chs.
	Land; mountainous and rolling.
	Soil; gravelly and rocky, 3rd and 4th rate.
	Timber; mesquite and palo verde.
	Undergrowth; greasewood, scrub mesquite and cactus.
	From orig. cor. of secs. 13, 14, 23 and 24.
	West, on random line, bet. secs. 14 and 23 (E. $\frac{1}{2}$).
	Over nearly level land, thru scattering undergrowth.
14.20	Wash, 15 lks. wide, course NE. Enter rolling land. Ascend 62 ft. over SE. slope.
28.30	Spur, slopes NE. Ascend 52 ft. over N. slope to
38.55	Descend 12 ft. over NW. slope to
40.15	Fall 2 lks. S. of the orig. $\frac{1}{4}$ sec. cor. of secs. 14 and 23, which is a granite stone, 10 x 8 x 6 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on N. face and witnessed by a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearing trees.
	This cor. monument being a good durable stone properly marked and witnessed, no reconstruction or alteration is necessary.
	The true course and dist. of E. $\frac{1}{2}$ of line bet. secs. 14 and 23 are N. $89^{\circ} 58'$ W., 40.15 chs.
	Thence

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains West, on random line bet. secs. 14 and 23 (W. $\frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Descend 27 ft. over NW. slope.

4.58 Wash, 15 lks. wide, course NE. Enter mountainous land.
 Ascend 105 ft. over SE. slope.

13.50 Spur, slopes NE. Ascend 34 ft. over N. slope to

24.90 Wash, 10 lks. wide, course NE. Enter rolling land.
 Ascend 60 ft. over NE. slope to.

40.57 Fall 73 lks. S. of the original cor. of secs. 14, 15,
 22 and 23, which is a granite stone 12 x 8 x 6 ins.
 above ground, firmly set, marked with 2 notches on E.
 edge and 3 notches on S. edge 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 alteration
 of same is necessary.

True course and dist. of W. $\frac{1}{2}$ of line bet. secs. 14 and
 23 are N. 88° 58' W., 40.58 chs.

Land; rolling and mountainous.
 Soil; gravelly and rocky, 4th rate.
 Timber; palo verde and mesquite.
 Undergrowth; greasewood, scrub mesquite and cactus.

From orig. cor. of secs. 14, 15, 22 and 23.
 South, on random line, bet. secs. 22 and 23, (N. $\frac{1}{2}$).
 Over rolling land, thru very scattering timber and dense
 undergrowth. Ascend 154 ft. over NE. slope.

21.00 Descend 20 ft. over SE. slope.

25.50 Wash, 10 lks. wide, course NE. Enter mountainous land.
 Ascend 356 ft. over steep N. slope to

39.34 Fall 2 lks. E. of the orig. $\frac{1}{4}$ sec. cor. of secs. 22 and
 23, which is a granite stone 24 x 18 x 12 ins. above
 ground, firmly set, marked " $\frac{1}{4}$ " on W. face and wit-
 nessed 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 alteration
 is necessary.

True course and dist. of the N. $\frac{1}{2}$ of line bet. secs. 22
 and 23 are S. 0° 2' W., 39.34 chs.

Land; rolling and mountainous.
 Soil; gravelly and rocky, 3rd and 4th rate.
 Timber; mesquite and palo verde.
 Undergrowth; greasewood and cactus.

From orig. cor. of secs. 14, 15, 22 and 23.
 West, on random line, bet. secs. 15 and 22 (E. $\frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Ascend 37 ft. over NE. slope.

11.39 Spur, slopes N. Descend 24 ft. over W. slope.

16.40 Head of gulch, course N. Ascend 52 ft. over NE. slope.

21.30 Spur, slopes NW. Descend 144 ft. over W. slope to

40.84 Fall 15 lks. S. of the orig. $\frac{1}{4}$ sec. cor. of secs. 15
 and 22, which is a granite stone 10 x 8 x 6 ins. above
 ground, firmly set, mkd. " $\frac{1}{4}$ " on N. face, and witnessed
 by a mound of stone 3 ft. base, 2 ft. high, N. of cor.
 and two bearing trees:

Mesquite, 8 ins. in diam., N. 31° E., 27 lks.
 dist., mkd. $\frac{1}{4}$ S B T.

Mesquite, 8 ins. in diam., N. 58° E., 43 lks.
 dist., mkd. $\frac{1}{4}$ S B T.

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	<p>This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration of same is necessary.</p> <p>True course and distance of E. $\frac{2}{2}$ of line bet. secs. 15 and 22 are, therefore, N. $89^{\circ} 47' W.$, 40.84 chs.</p> <p>Thence</p> <p>West, on random line, bet. secs. 15 and 22 (W. $\frac{2}{2}$).</p> <p>Over rolling land, thru scattering timber and undergrowth. Descend 12 ft. over W. slope.</p> <p>2.35 Wash, 10 lks. wide, course NW. Thence over rolling N. slope to sec. cor. Ascend 56 ft.</p> <p>13.00 Descend 58 ft.</p> <p>25.00 Ascend 43 ft. to</p> <p>40.35 Fall 163 lks. S. of the orig. cor. of secs. 15, 16, 21 and 22, which is a granite stone, 16 x 14 x 9 ins. above ground, firmly set, marked with 3 notches on each of E. and S. edges and witnessed by a mound of stone 3 ft. base, 2 ft. high W. of cor. and one bearing tree:</p> <p style="padding-left: 40px;">Mesquite, 8 ins. in diam., S. $16^{\circ} W.$, 22 lks. dist., marked T 16 S R 8 E S 21 B T.</p> <p>This cor. monument being a good durable stone properly marked and witnessed, no reconstruction or alteration is necessary.</p> <p>True course and distance of the W. $\frac{8}{8}$ of line bet. secs. 15 and 22 are, therefore, N. $87^{\circ} 41' W.$, 40.38 chs.</p> <p>Land; rolling.</p> <p>Soil; rocky, 3rd rate.</p> <p>Timber; mesquite and palo verde.</p> <p>Undergrowth; greasewood, scrub mesquite and cactus.</p>
	<p>From orig. cor. of secs. 15, 16, 21 and 22.</p> <p>West, on random line, bet. secs. 16 and 21 (E. $\frac{8}{8}$).</p> <p>Over mountainous land, thru scattering timber and undergrowth. Ascend 80 ft. over E. slope.</p> <p>8.00 Spur, slopes N. Descend 43 ft. over NW. slope.</p> <p>15.90 Wash, 40 lks. wide, course N. Ascend 23 ft. over E. slope to</p> <p>18.00 Thence over rolling land. Ascend slightly over N. slope to</p> <p>23.85 Descend 12 ft. over W. slope.</p> <p>26.48 Wash, 15 lks. wide, course N. Ascend 29 ft. over E. slope.</p> <p>32.50 Descend 26 ft. over NW. slope to.</p> <p>39.80 Fall 189 lks. N. of the orig. $\frac{1}{4}$ sec. cor. of secs. 16 and 21, which is a granite stone 18 x 6 x 4 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. and one bearing tree:</p> <p style="padding-left: 40px;">Mesquite, 8 ins. in diam., N. $3^{\circ} W.$, 15 lks. dist., marked "$\frac{1}{4}$ S B T."</p> <p>This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration of same is necessary.</p> <p>True course and distance of E. $\frac{2}{2}$ of line bet. secs. 16 and 21 are, therefore, S. $87^{\circ} 17' W.$, 39.84 chs.</p> <p>Thence</p> <p>West, on random line, bet. secs. 16 and 21 (W. $\frac{2}{2}$).</p> <p>Over rolling land, thru scattering timber and undergrowth.</p> <p>Descend slightly over NW. slope.</p> <p>1.70 Wash, 30 lks. wide, course N. Enter mountainous land. Ascend 75 ft. over E. slope.</p> <p>8.20 Spur, slopes N. Thence over rolling land. Descend 27 ft. over NW. slope.</p>

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	
14.80	Draw, course N. Ascend 58 ft. over NE. slope.
25.42	Descend 70 ft. over NW. slope.
34.00	Center of wash, 100 lks. wide, course N. Enter mountainous land. Ascend 100 ft. over NE. slope to
39.74	Fall 97 lks. S. of the orig. cor. of secs. 16, 17, 20 and 21, which is a granite stone 16 x 6 x 4 ins. above ground, firmly set, marked with 3 notches on S. edge and 4 notches on E. edge 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 alteration of same is necessary. True course and distance of W. $\frac{1}{2}$ of line bet. secs. 16 and 21, are, therefore, N. 88° 36' W., 39.75 chs. Land; mountainous and rolling. Soil; gravelly and rocky, 4th rate. Timber; mesquite and oak. Undergrowth; scrub oak, mesquite and cactus.
	From orig. cor. of secs. 16, 17, 20 and 21. West, on random line, bet. secs. 17 and 20 (E. $\frac{1}{2}$). Over mountainous land, thru dense undergrowth. Ascend 20 ft. over NE. slope.
3.93	Spur, slopes N. Descend 172 ft. over NW. slope.
17.75	Bottom of gulch, course N. Ascend 52 ft. over E. slope.
20.88	Spur, slopes N. Descend 94 ft. over W. slope to
27.50	East edge of wash, brs. N. and S. Thence across wash, course N.
33.50	West edge of wash, brs. N. and S. Leave wash. Ascend 45 ft. over E. slope to
37.40	Top of bank, brs. N. and S. Thence over level land.
39.96	Fall 36 lks. N. of the orig. $\frac{1}{4}$ sec. cor. of secs. 17 and 20, which is a granite stone 14 x 12 x 8 ins. above ground, firmly set, mkd. " $\frac{1}{4}$ " on N. face and witnessed by a mound of stone, 3 ft. base, 2 ft. high, N. of cor. No bearing trees. This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration of same is necessary. True course and dist. of E. $\frac{1}{2}$ of line bet. secs. 17 and 20 are, therefore, S. 89° 29' W., 39.96 chs. Thence West, on random line, bet. secs. 17 and 20 (W. $\frac{1}{2}$). Over level land, thru dense undergrowth.
11.82	Road, brs. N. and S.
32.00	Wash, 20 lks. wide, course N.
40.50	Fall 54 lks. N. of the original cor. of secs. 17, 18, 19 and 20, which is a granite stone, 14 x 10 x 8 ins. above ground, firmly set, marked with 3 notches on S. edge and 5 notches on E. edge and witnessed by a md. of stone, 3 ft. base, 2 ft. high W. of cor. No trace of the two bearing trees of record. This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration is necessary. True course and distance of W. $\frac{1}{2}$ of line bet. secs. 17 and 20 are, therefore, S. 89° 14' W., 40.50 chs. Land; E. $\frac{1}{2}$ mountainous, W. $\frac{1}{2}$ level. Soil; gravelly and rocky, 3rd and 4th rate. Timber; none. Undergrowth; scrub oak, mesquite, catclaw and cactus.

Retracement of Part of the Subdivision Lines of T. 16 S., R. 6 E.

Chains The orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 30, is a granite stone 3 x 3 x 2 ft. above ground, firmly set, mkd. " $\frac{1}{4}$ " on W. face and witnessed by a mound of stone W. of cor. No bearing trees.
This cor. monument being a good durable stone, properly marked and witnessed, no reconstruction or alteration of same is necessary.

Thence
North, on random line, bet. secs. 29 and 30 (N. $\frac{1}{4}$).
Over mountainous land, thru dense undergrowth.
Ascend 94 ft. over S. slope.

8.25 Spur, slopes E. from hill. Descend 96 ft. over NE. slope to

16.50 Foot of descent, brs. NW. and SE. Thence over nearly level land. Descend slightly over NE. slope to sec. cor.

32.00 South side of Indian village. Thence thru Indian village known as "Coyote".

40.24 Fall 40 lks. W. of the orig. cor. of secs. 19, 20, 29 and 30, which is a granite stone, 14 x 8 x 6 ins. above ground, firmly set, marked with 2 notches, on S. edge and 5 notches on E. edge and witnessed by faint remains of four pits one each NE., SE., SW. and NW. of cor.
Dig new pits 18 x 18 x 12 ins. one each NE., SE., SW. and NW. of cor., 5 ft. dist.
True course and dist. of N. $\frac{1}{4}$ of line bet. secs. 29 and 30 are, therefore, N. $0^{\circ} 34'$ E., 40.24 chs.
Land; S. $16\frac{1}{2}$ chs. mountainous, remainder nearly level.
Soil; sandy and gravelly, 3rd rate.
Timber; none.
Undergrowth; scrub mesquite, catclaw and cactus.

From original cor. of secs. 19, 20, 29 and 30.
East, on random line, bet. secs. 20 and 29 (W. $\frac{1}{4}$).
Over nearly level land, thru dense undergrowth, thru Indian village known as "Coyote". Desc. slightly over NE. slope.

10.00 East side of Indian village, brs. N. and S. Leave Indian village.

18.00 Top of bank, brs. N. and S. Enter rolling land. Desc. 25 ft. over E. slope.

20.00 Center of wash, 100 lks. wide, course N. Ascend 18 ft. over W. slope to

22.00 Top of bank bears N. and S. Descend 14 ft. over E. slope to

26.00 Top of bank, brs. N. and S. Descend 30 ft. over E. slope to

27.75 West edge of main wash, brs. N. and S. Thence across wash, course N.

32.00 East edge of same wash, brs. N. and S. Ascend 16 ft. over W. slope to

34.00 Top of bank, brs. N. and S. Ascend 20 ft. over W. slope to

40.50 Fall 9 lks. N. of the orig. $\frac{1}{4}$ sec. cor. of secs. 20 and 29, which is a granite stone 10 x 5 x 4 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 bearing trees.
This cor. monument, being a good durable stone, properly marked and witnessed, no reconstruction or alteration is necessary.
True course and dist. of W. $\frac{1}{4}$ of line bet. secs. 20 and 29, are, therefore, S. $89^{\circ} 52'$ E., 40.50 chs.

Retracement of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	<p>Land; nearly level and rolling. Soil; sandy and gravelly, 3rd rate. Timber; none. Undergrowth; scrub mesquite, catclaw and cactus.</p> <hr/> <p>From orig. cor. of secs. 19, 20, 29 and 30. North, on random line, bet. secs. 19 and 20 (S. $\frac{1}{2}$). Over nearly level land, thru dense undergrowth, thru Indian village known as "Coyote". Descend slightly over NE. slope to $\frac{1}{4}$ sec. cor. 24.00 North side of Indian village. Leave Indian village. 40.00 Fall 20 lks. W. of the orig. $\frac{1}{4}$ sec. cor. of secs. 19 and 20, which is a sandstone, 10 x 8 x 4 ins. above ground, firmly set, mkd. "$\frac{1}{4}$" on W. face, and witnessed by faint traces of pits, one each N. and S. of cor. No bearing trees. Dig new pits 18 x 18 x 12 ins. one each N. and S. of cor. 3 ft. dist. True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 19 and 20 are, therefore, N. 0° 17' E., 40.00 chs. Thence North, on random line, bet. secs. 19 and 20 (N. $\frac{1}{2}$). Over level land, thru dense undergrowth. 4.34 Road, brs. NE. and SW. 38.93 Wash, 20 lks. wide, course NW. 40.14 Fall 10 lks. W. of the orig. cor. of secs. 17, 18, 19 and 20, hereinbefore described. True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 19 and 20 are, therefore, N. 0° 9' E., 40.14 chs. Land; N. $\frac{1}{2}$ level, S. $\frac{1}{2}$ nearly level. Soil; sandy and gravelly, 3rd rate. Timber; none. Undergrowth; scrub mesquite, catclaw and cactus.</p> <hr/>
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Resurvey of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	<p>The following notes describe the resurvey of line bet. secs. 31 and 32, the W. $\frac{1}{2}$ of the line bet. secs. 29 and 32, the E. $\frac{1}{2}$ of the line bet. secs. 30 and 31, the S. $\frac{1}{2}$ of line bet. secs. 29 and 30, and the E. $\frac{1}{2}$ of line bet. secs. 24 and 25.</p>
	<p style="text-align: center;">----- Retracement for Resurvey. -----</p>
	<p>From reestablished cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the township, hereinbefore described.</p>
	<p>West, on random line, bet. secs. 24 and 25 (E. $\frac{1}{2}$).</p>
40.92	<p>Fall 28 lks. S. of the orig. $\frac{1}{4}$ sec. cor. of secs. 24 and 25, hereinbefore described.</p>
	<p>True course and dist. of E. $\frac{1}{2}$ of line bet. secs. 24 and 25 are, therefore, N. 89° 36' W., 40.92 chs.</p>
	<p>-----</p> <p>From the reestablished cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, hereinbefore described.</p>
	<p>North, on random line searching diligently at record intervals for the orig. cors.</p>
	<p>Find no trace of any orig. cor. until at</p>
122.31	<p>Fall 158 lks. E. of the orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 30, hereinbefore described.</p>
	<p>Thence</p>
	<p>S. 0° 44' E., on trial meridional sec. line.</p>
40.77	<p>Set temp. cor. of secs. 29, 30, 31 and 32.</p>
81.54	<p>Set temp. $\frac{1}{4}$ sec. cor. of secs. 31 and 32.</p>
122.31	<p>Intersect the reestablished cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township.</p>
	<p>-----</p> <p>From the orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 32, hereinafter described,</p>
	<p>West, on random line</p>
80.56	<p>Fall 17 lks. N. of the orig. $\frac{1}{4}$ sec. cor. of secs. 30 and 31, hereinafter described.</p>
	<p>Thence</p>
	<p>N. 89° 53' E., on trial latitudinal sec. line.</p>
40.28	<p>Set temp. cor. of secs. 29, 30, 31 and 32.</p>
40.52	<p>The temp. cor. of same secs. on trial meridional sec. line, hrs. S. 24 lks. dist.</p>
80.56	<p>Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 32.</p>
	<p>The point for the reestablishment of the cor. of secs. 29, 30, 31 and 32, determined by the above described trial lines, is 24 lks. W. of the temp. cor. of said secs., set at proportional dist. on the trial meridional sec. line and 24 lks. S. of the temp. cor. of same secs. set at proportional dist. on the trial latitudinal sec. line.</p>
	<p>The reestablishment of the cor. of secs. 29, 30, 31 and 32, by the double proportion as described, gives true courses and lengths for the sec. lines tied thereto, as follows:</p>
	<p>Line bet. secs. 31 and 32, N. 0° 54' W., 81.54 chs.</p>
	<p>W. $\frac{1}{2}$ of line bet. secs. 29 and 32, N. 89° 32' E., 40.28 chs.</p>
	<p>E. $\frac{1}{2}$ of line bet. secs. 30 and 31, N. 89° 46' W., 40.28 chs.</p>
	<p>S. $\frac{1}{2}$ of line bet. secs. 29 and 30, N. 0° 25' W., 40.77 chs.</p>

Resurvey of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains From reestablished cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the Tp., hereinbefore described.
N. 89° 36' W., on true line, bet. secs. 24 and 25 (E.g)
Over gently rolling land, thru very scattering timber and scattering undergrowth.
Ascend gradually over NE. slope to $\frac{1}{4}$ sec. cor.
33.17 Wash, 10 lks. wide, course NE.
40.92 Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 24 and 25, hereinbefore described.
Land; gently rolling.
Soil; gravelly, 4th rate.
Timber; mesquite and palo verde.
Undergrowth; scrub mesquite, palo verde and cactus.

From reestablished cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, hereinbefore described.
N. 0° 54' W., on true line, bet. secs. 31 and 32.
Over mountainous land, thru scattering timber and undergrowth.
Descend 265 ft. over steep W. and NW. slopes to
17.55 Wash, 30 lks. wide, in gulch, course NE.
Descend 50 ft. over steep NE. slope to
20.85 Wash, 30 lks. wide, course NW. Spring in wash at this point. Descend 76 ft. over NW. slope to.
39.00 Wash, 10 lks. wide, course NW. Ascend 42 ft. over SW. slope to
40.77 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 31 and 32, marked on brass cap

$\frac{1}{4}$
 S 31 | S 32
 1920

From which

Mesquite, 5 ins. in diam., brs. N. 69° W., 173 lks. dist., marked $\frac{1}{4}$ S 31 B T.

No other bearing tree available. Raise a md. of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Ascend 65 ft. over SW. slope.

43.60 Point of spur slopes NW. Descend 150 ft, over N. slope.
54.04 Wash, 20 lks. wide, course W. Ascend 74 ft. over S. slope.
60.05 Ridge, bears E. and W. Descend 171 ft. over N. slope to
69.56 Foot of ridge, brs. E. and W. Enter gently rolling land and dense undergrowth. Descend gradually over NE. slope to
81.54 Set an iron post, 3 ft. long, 2 ins. 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 reestablished cor. of secs. 29, 30, 31 and 32, marked on brass cap

T 16 S R 8 E
 S 30 | S 29
 S 31 | S 32
 1920

No bearing trees available.

Land; mountainous and gently rolling.

Soil; sandy and rocky, 3rd rate.

Timber; mesquite, oak and cedar.

Undergrowth; scrub mesquite, oak, catclaw and cactus.

Resurvey of Part of the Subdivision Lines of T. 16 S., R. 8 E.

Chains	<p>From the reestablished cor. of secs. 29, 30, 31 and 32. N. 89° 32' E., on true line, bet. secs. 29 and 32 (W. $\frac{1}{2}$). Over gently rolling land, thru dense undergrowth. Descend gradually over NE. slope.</p>
30.00	<p>W. edge of wash, brs. N. and S. Thence across wash, course N.</p>
36.00	<p>E. edge of same wash, brs. N. and S. Leave wash.</p>
	<p>Ascend slightly over W. slope to</p>
40.28	<p>Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 32, which is a granite stone, 8 x 8 x 4 ins. above ground, firmly set, marked "$\frac{1}{4}$" on N. face. No trace of the original accessories to this cor., described in the record as pits E. and W., md. of earth N., and two mesquite bearing trees, both NW. of cor.</p>
	<p>No bearing trees being available, raise a md. of stone 3 ft. base, 2 ft. high, N. of cor.</p>
	<p>Land; gently rolling.</p>
	<p>Soil; sandy and gravelly, 3rd rate.</p>
	<p>Timber; none.</p>
	<p>Undergrowth; scrub mesquite, catclaw and cactus.</p>
40.28	<p>From reestablished cor. of secs. 29, 30, 31 and 32. N. 89° 46' W., on true line bet. secs. 30 and 31 (E. $\frac{1}{2}$) Over gently rolling land, thru dense undergrowth. Ascend gradually over NE. slope to</p>
	<p>Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 30 and 31, which is a granite stone, 14 x 12 x 8 ins. above ground, firmly set, marked "$\frac{1}{4}$" on N. face. No trace of the original accessories described in the record as pits E. and W. and mound of earth N. of cor.</p>
	<p>Dig pits 18 x 18 x 12 ins., one each E. and W. of cor. 3 ft. dist. No bearing trees available.</p>
	<p>Land; gently rolling.</p>
	<p>Soil; sandy and gravelly, 3rd rate.</p>
	<p>Timber; none.</p>
	<p>Undergrowth; scrub mesquite and cactus.</p>
37.02	<p>From reestablished cor. of secs. 29, 30, 31 and 32. N. 0° 25' W., on true line, bet. secs. 29 and 30 (S. $\frac{1}{2}$) Over gently rolling land, thru dense undergrowth. Descend gradually over NE. slope to $\frac{1}{4}$ sec. cor.</p>
40.77	<p>Wash, 20 lks. wide, course NE. Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 30, hereinbefore described.</p>
	<p>Land; gently rolling.</p>
	<p>Soil; sandy and gravelly, 3rd rate.</p>
	<p>Timber; none.</p>
	<p>Undergrowth; scrub mesquite, catclaw and cactus.</p>

Boundaries of the Portion of Township 16 South, Range 8 East, surveyed under Group 100, Arizona.

Latitudes, departures and closing errors.							
Line designated	True course	Distance	Latitudes		Departures		
			N.	S.	E.	W.	
East Boundary	S. 0°37'E.	40.65		40.65	.44		
	S. 0°13'E.	124.08		124.08	.47		
South Boundary	N.89°19'W	404.02	4.82			404.02	
Subdivisional Boundary	N. 0°54'W.	81.54	81.54			1.28	
	N. 0°25'W.	40.77	40.77			.30	
	N. 0°34'E.	40.24	40.24			.40	
	N. 0°17'E.	40.00	40.00			.20	
	N. 0°09'E.	40.14	40.14			.10	
	N.89°14'E.	40.50	.54		40.50		
	N.89°29'E.	39.96	.36		39.96		
	S.88°36'E.	39.75		.97	39.74		
	N.87°17'E.	39.84	1.89		39.80		
	S.87°41'E.	40.38		1.63	40.35		
	S.89°47'E.	40.84		.15	40.84		
	S.88°58'E.	40.58		.72	40.57		
	S.89°58'E.	40.13		.02	40.13		
	S. 0°18'E.	40.17		40.17	.21		
S. 0°34'W.	39.44		39.44		.39		
S.88°17'E.	40.77		1.22	40.75			
S.89°36'E.	40.92		.28	40.92			
Convergency					.18		
Totals			250.30	249.33	405.56	405.99	
			249.33			405.56	
Error in latitude			.097				
Error in departure					0.43		

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains

The following notes describe the survey of all the section lines required to complete the subdivision of T. 16 S., R. 8 E.

The surveyed lines bounding the unsurveyed part of this township, retraced and resurveyed as hereinbefore described are found to be defective in measurement and alignment, therefore preliminary to the survey of the remaining section lines proceed as follows: survey the first meridional section line from the original corner of sections 23, 24, 25 and 26, south, as a random line, for distance only, setting temporary cors. at intervals of 40.00 chs. and at 165.55 chs. intersect the S. bdy. of the township at 2.46 chs. N. $89^{\circ} 19' W.$, from the reestablished cor. of secs. 1 and 2, T. 17 S., R. 8 E., and reestablish the cor. of secs. 35 and 36 at the point of intersection as hereinbefore described in S. bdy. resurvey notes.

Survey the fourth meridional sec. line from the orig. cor. of secs. 16, 17, 20 and 21, south, as a random line, for distance only, setting temp. cors. at intervals of 40.00 chs. and at 244.42 chs. intersect the south boundary of the township at 1.16 chs. N. $89^{\circ} 19' W.$, from the reestablished cor. of secs. 4 and 5, T. 17 S., R. 8 E., and reestablish the point for cor. of secs. 32 and 33, at the point of intersection by witness cor. as hereinbefore described in S. bdy. resurvey notes.

After survey of the random first and fourth meridional sec. lines, begin at the reestablished cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, and survey a sectional correction line due West, set temp. $\frac{1}{4}$ sec. cor. at 40.00 chs.; at 82.28 chs. intersect the first meridional sec. line at 3.66 chs. S. of the temp. sec. cor. thereon; move the temp. cor. S. to point of intersection, thence continue line due west setting temp. corners at intervals of 40.00 chs. and at 323.79 chs. W. from cor. of secs. 25, 30, 31 and 36 on E. bdy., intersect the fourth meridional sec. line at 4.66 chs. S. of the temp. sec. cor. set at 160.00 chs. S. of the original cor. of secs. 16, 17, 20 and 21. Establish the cor. of secs. 28 and 33, only, at said point of intersection.

The permanent sec. cors. on the sectional correction line are then established at the points where the first, second and third meridional sec. lines intersect the sectional correction line, and the permanent $\frac{1}{4}$ sec. cors. are established thereon at midpoints bet. the sec. cors., with the exception of the $\frac{1}{4}$ sec. cor. of sec. 36, which is established at 40.00 chs. E. of cor. of secs. 25, 26, 35 and 36; the $\frac{1}{4}$ sec. cor. of sec. 25 which is established at 40.00 chs. W. from the cor. of secs. 25, 30, 31 and 36 on the E. bdy.; and the $\frac{1}{4}$ sec. cor. of secs. 28 and 33, which is established at 40.00 chs. W. from the cor. of secs. 27, 28, 33 and 34.

The permanent $\frac{1}{4}$ sec. cors. of the south tier of secs. on the first, second and third meridional sec. lines are established at 40.00 chs. from the sectional correction line.

From reestablished cor. of secs. 35 and 36, on the S. bdy. of the Tp., hereinbefore described, North, on true line bet. secs. 35 and 36.

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

- Chains Over nearly level land, thru very scattering timber and dense undergrowth.
- 1.00 Wash, 10 lks. wide, course SE. Ascend slightly over S. slope to
- 20.00 Enter rolling land. Ascend 125 ft. over S. slope to
- 39.90 Enter mountainous land. Ascend 40 ft. over steep S. slope to
- 41.89 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 35 and 36, marked on brass cap

$\frac{1}{4}$
 S 35 | S 36
 1920

From which

Mesquite, 6 ins. in diam., brs. S. $47\frac{1}{2}^{\circ}$ E., 136 lks. dist., marked $\frac{1}{4}$ S 36 B T.

No other bearing tree available.

Raise a mound of stone, 2 ft. base, 1 ft. high W. of cor. Continue over mountainous land, thru very scattering timber and scattering undergrowth. Ascend 450 ft. over steep S. slope.

- 53.00 Spur, slopes SW. Descend 100 ft. over NW. slope.
- 60.00 Bottom of gulch, course SW. Ascend 700 ft. over steep broken SW. slope to
- 81.89 Intersect the sectional correction line at 82.28 cns. due west of the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township.

At point of intersection:

Set an iron post, 3 ft. long, 2 ins. 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 around post, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

T 16 S R 8 E
 S 26 | S 25
 S 35 | S 36
 1920

No bearing trees available.

Land; nearly level, rolling and mountainous.

Soil; rocky, 4th rate.

Timber; mesquite.

Undergrowth; scrub mesquite and cactus.

From reestablished cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, hereinbefore described. West, on true line, on sectional correction line, bet. secs. 25 and 36.

Over mountainous land, thru very scattering timber and scattering undergrowth

Descend 250 ft. over steep SW. slope.

- 7.00 Head of gulch, course S. Asc. 190 ft. over SE. slope.
- 15.00 Point of spur slopes S. Descend 50 ft. over SW. slope.
- 20.00 Bottom of gulch, course SE., near head.
Ascend 245 ft. over SE. slope.
- 28.10 Spur, slopes S. Descend 50 ft. over SW. slope to
- 32.00 Ascend 210 ft. over SE. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. 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 $\frac{1}{4}$ sec. cor. of sec. 25, only, marked on brass cap

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains

$$\frac{1}{4} S 25$$

 1920

No bearing trees available.

Ascend 64 ft. over SE. slope to

- 42.28 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. of sec. 36, only, marked on brass cap.

$$\frac{1}{4} S 36$$

 1920

No bearing trees available. Ascend 366 ft. over SE. slope

- 52.25 Ridge, brs. N. 70° E., and S. 80° W. Ascend 125 ft. over steep N. and NE. slopes to
- 60.80 Same ridge, brs. N. 40° W., and S. 70° E. Desc. 473 ft. over steep SW. slope.
- 75.00 Head of gulch, course S. Ascend 41 ft. over SE. slope.
- 78.75 Descend 40 ft. over SW. slope to
- 82.28 Intersect the cor. of secs. 25, 26, 35 and 36. Land; mountainous.
Soil; rocky, 4th rate.
Timber; mesquite, palo verde and catclaw.
Undergrowth; scrub mesquite, cactus and Spanish dagger.

North, on true line, bet. secs. 25 and 26.

Over mountainous land, thru very scattering timber and scattering undergrowth.

Ascend 224 ft. over SW. slope.

- 6.65 Descend 45 ft. over NW. slope.
- 9.16 Head of draw, course W. Ascend 62 ft. over SW. slope.
- 11.70 Ridge, brs. N. 80° W., and S. 80° E. Descend 950 ft. over steep broken N. slope to
- 40.00 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. of sec. 26, only, marked on brass cap

$$\frac{1}{4} S 26$$

 1920

No bearing trees available. Desc. 105 ft. over steep N. slope to

- 43.66 Set an iron post, 3 ft. long, 1 in. 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 $\frac{1}{4}$ sec. cor. of sec. 25, only, marked on brass cap

$$\frac{1}{4} S 25$$

 1920

No bearing trees available. Descend 37 ft. over N. slope.

- 45.66 Bottom of gulch, course NE. Ascend 15 ft. over SE. slope.
- 47.17 Spur, slopes NE. Desc. 65 ft. over NW. slope.
- 50.70 Bottom of gulch, course NE. Ascend 60 ft. over SE. slope.
- 62.65 Spur, slopes NE. Descend 348 ft. over steep NW. slope.
- 81.60 Wash, 10 lks. wide, course NE. Asc. 16 ft. over SE. slope to
- 83.66 Intersect the orig. cor. of secs. 23, 24, 25 and 26, hereinbefore described.

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

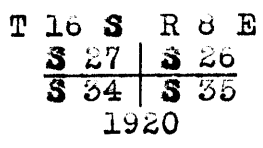
Chains

The boundary of the Papago Indian Reservation extends easterly and westerly thru this cor., identical with the sec. lines, secs. 23 and 24 being within said reservation.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; oak, palo verde and pine.
Undergrowth; scrub oak, cedar and cactus.

- From temp. cor. of secs. 26, 27, 34 and 35 on the sectional correction line, set at 80.00 chs. W. of cor. of secs. 25, 26, 35 and 36
- S. 0° 1' E., on random line, bet. secs. 34 and 35.
- 40.00 Set temp. 1/4 sec. cor.
- 80.99 Fall 8 lks. E. of the reestablished cor. of secs. 34 and 35 on the S. bdy. of the township, hereinbefore described.
- Thence
- N. 0° 1' W., on true line, bet. secs. 34 and 35.
- Over mountainous land, thru scattering timber and undergrowth.
- Descend 520 ft. over steep, broken, NE. and N. slope to
- 23.00 Bottom of gulch, course E., containing a stream of water 5 lks. wide, 4 ins. deep. Ascend 289 ft. over S. slope to
- 40.99 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. of secs. 34 and 35, marked on brass cap



- No bearing trees available. Ascend 78 ft. over S. slope to
- 44.00 Foot of cliffs bearing E. and W., facing S. Ascend 500 ft. over cliffs to
- 53.00 Top of cliffs and top of spur sloping E. Descend 750 ft. over steep, broken NE. slope to
- 80.99 Intersect the sectional correction line at a point 8-lks. W. of the temp. cor. of secs. 26, 27, 34 and 35 or 80.08 chs. W. of the cor. of secs. 25, 26, 35 and 36. At point of intersection,
Set an iron post, 3 ft. long, 2 ins. 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 cor. of secs. 26, 27, 34 and 35, marked on brass cap



No bearing trees available.
Land; mountainous.
Soil; rocky, 3rd and 4th rate.
Timber; oak and mesquite.
Undergrowth; scrub oak, catclaw and cactus.

From cor. of secs. 25, 26, 35 and 36.
West, on true line, on sectional correction line, bet. secs. 26 and 35.
Over mountainous land, thru very scattering timber and

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains scattering undergrowth.
Descend 988 ft. over steep broken SW. slope to
40.00 Bottom of gulch, 50 lks. wide, course S.
40.04 True point for the $\frac{1}{4}$ sec. cor. of secs. 26 and 35 falls
in the bottom of the gulch where it would be impract-
icable to set monument and insure its permanency,
therefore establish witness cor. at 72 lks. West.
40.80 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
around post, for witness cor. to $\frac{1}{4}$ sec. cor. of secs.
26 and 35, marked on brass cap

$\frac{1}{4}$ $\frac{S 26}{S 35}$ W C
1920

No bearing trees available. Ascend 585 ft. over steep
broken E. slope.
58.00 Spur, slopes S. Descend 230 ft. over steep W. slope,
broken by cliffs.
68.00 Bottom of gulch 60 lks. wide, course SE. Ascend 105 ft.
over steep NE. slope to
80.08 Intersect the cor. of secs. 26, 27, 34 and 35.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; oak.
Undergrowth; scrub oak, cedar, mesquite and cactus.

N. 0° 1' W., on true line, bet. secs. 26 and 27.
Over mountainous land, thru very scattering timber and
scattering undergrowth. Desc. 86 ft. over NE. slope.
8.00 Bottom of gulch, 60 lks. wide, course SE. Ascend 28 ft.
over SW. slope.
10.00 Spur, slopes SE. Descend 55 ft. over NE. slope.
12.00 Bottom of gulch, 50 lks. wide, course SE. Ascend 115
ft. over S. slope.
16.23 Spur, slopes SE. Descend 85 ft. over NE. slope.
20.00 Bottom of gulch, course SE. Ascend 75 ft. over SW. slope
to
24.00 Spur, slopes SE. Ascend 194 ft. over steep E. slope to
32.00 Bottom of gulch, 60 lks. wide, course SE. Ascend 160 ft.
over steep SW. slope to
37.72 Spur, slopes SE. Ascend 14 ft. over E. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
the ground to bed rock, deposit a stone marked cross
(X) at base of post and raise a mound of stone around
post, for $\frac{1}{4}$ sec. cor. of secs. 26 and 27, marked on
brass cap

$\frac{1}{4}$
S 27 | S 26
1920

From which
Willow, 4 ins. in diam., bears N. $24\frac{1}{2}^{\circ}$ W., 200 lks.
dist., marked $\frac{1}{4}$ S 27 B T.
No other bearing tree available.
The mouth of a tunnel brs. N. 10° E., 325 lks. dist.
Ascend 128 ft. over E. slope to
48.00 Bottom of gulch, 30 lks. wide, course SE. Ascend 526
ft. over steep S. slope to
64.00 Main ridge of the Coyote Mts. bears E. and W. Descend
300 ft. over steep N. slope to
80.00 Head of gulch, course W. Descend 57 ft. over steep SW.
slope to
83.58 Intersect the S. bdy. of sec. 23 at a point 12 lks. W.

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains

of the temp. sec. cor. set thereon at 80.00 chs. due west of the cor. of secs. 23, 24, 25 and 26.

At point of intersection set an iron post, 3 ft. long, 2 ins. 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 around post, for cor. of secs. 26 and 27, only, marked on brass cap

$$\begin{array}{r} \text{S } 23 \\ \hline \text{S } 27 \quad | \quad \text{S } 26 \\ \hline \text{T } 16 \text{ S } \quad \text{R } 8 \text{ E} \\ 1920 \end{array}$$

No bearing trees available.

The boundary of the Papago Indian Reservation extends E. and W., thru this cor., identical with the sec. lines, secs. 22 and 23 being within said reservation.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; oak and cedar.

Undergrowth; scrub oak, cedar and cactus.

From orig. cor. of secs. 23, 24, 25 and 26, hereinbefore described.

West, on random line, bet. secs. 25 and 26, for distance only.

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

80.00 Set temp. sec. cor.

80.72 Fall 1.13 chs. S. of the temp. sec. cor. set at 40.00 chs. S. of the orig. $\frac{1}{4}$ sec. cor. of secs. 22 and 23. The length of S. bdy. of sec. 23 is, therefore, 80.72 chs., and as the line bet. secs. 26 and 27 intersects said line at 12 lks. W. of the temp. sec. cor. set thereon, the N. bdy. of sec. 26 is 80.12 chs. in length.

Return to the original cor. of secs. 23, 24, 25 and 26. Thence

West, on true line, on S. bdy. of sec. 23.

Over mountainous land, thru very scattering timber and scattering undergrowth.

Ascend 203 ft. over SE. slope.

11.57 Spur, slopes NE. Descend 75 ft. over NW. slope

17.48 Bottom of gulch, 10 lks. wide, course NE. Ascend 28 ft. over SE. slope.

18.35 Spur, slopes NE. Ascend 47 ft. over steep N. slope to

24.26 Bottom of gulch, 10 lks. wide, course NE. Ascend 540 ft. over steep E. slope to

40.06 (Midpoint of N. bdy. of sec. 26) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 26, only, marked on brass cap

$$\begin{array}{r} \frac{1}{4} \text{ S } 26 \\ 1920 \end{array}$$

No bearing trees available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor. Ascend 10 ft. over E. slope to

40.36 (Midpoint of S. bdy. of sec. 23) Set an iron post, 3 ft long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 23, only, marked on brass cap

$$\begin{array}{r} \frac{1}{4} \text{ S } 23 \\ 1920 \end{array}$$

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains No bearing trees available.
Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
Ascend 236 ft. over steep E. slope to
46.32 Point of spur, slopes S. 85° E. Ascend 510 ft. over S. and SE. slopes.
49.72 Prospect hole brs. N. 20 lks. dist. Another prospect hole S. 3° W., about 10 chs. dist.
65.70 Spur, slopes N. 80° E. Ascend 277 ft. over steep N. and NE. slopes to
74.80 Spur, slopes N. 20° W. Descend 330 ft. over steep SW. slope to
80.12 Intersect the cor. of secs. 26 and 27, hereinbefore described.
Continue line and measurement.
Descend 25 ft. over steep SW. slope to
80.72 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone for cor. of secs. 22 and 23, only, marked on brass cap

T 16 S R 8 E
S 22 | S 23
S 27
1920

From which

Maple, 10 ins. in diam., brs. N. 52° E., 69 lks. dist., marked T 16 S R 8 E S 25 B T.

Oak, 8 ins. in diam., brs. N. 64½° W., 71 lks. dist., marked T 16 S R 8 E S 22 B T.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; oak and maple.

Undergrowth; scrub oak and cactus.

From orig. ¼ sec. cor. of secs. 22 and 23, hereinbefore described.

South, on random line, bet. secs. 22 and 23 (S. ½).

40.00 Set temp. ¼ sec. cor.

Continue line and measurement.

41.13 Intersect the latitudinal sec. line at a point 72 lks. W. of the temp. sec. cor. set at 80.00 chs. W. of orig. cor. of secs. 23, 24, 25 and 26. Cor. of secs. 22 and 23, only, established at this point of intersection as hereinbefore described.

From cor. of secs. 22 and 23

North, on true line, bet. secs. 22 and 23 (S. ½).

Over mountainous land, thru scattering timber and undergrowth.

Ascend 85 ft. over SW. slope.

6.15 Spur, slopes NW. Descend 193 ft. over NW. slope to

11.92 Foot of cliff bearing NW. and SE. facing SW. Ascend 83 ft. to

13.40 Top of cliff bearing NW. and SE. Ascend slightly over SW. slope to

13.90 Spur, slopes NW. Descend 350 ft. over steep N. slope to

23.87 Descend 268 ft. over W. slope to

32.38 Spur, slopes NW. Descend 320 ft. over steep N. slope to

41.13 Intersect the orig. ¼ sec. cor. of secs. 22 and 23, hereinbefore described.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; oak.

Undergrowth; scrub oak and cactus.

survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 6 East.

Chains

The point for temp. cor. of secs. 27, 28, 33 and 34 on the sectional correction line falls on face of cliffs and is inaccessible, therefore a temp. witness cor. thereto was established by triangulation at 12.24 chs. W.

The line bet. secs. 33 and 34 passes over precipitous slopes and cliffs of the Coyote Mountains and chaining is impracticable, therefore triangulate the measurement as described as follows and as shown on the diagram hereon.

From reestablished cor. of secs. 33 and 34 on S. bdy. of Tp. indicated on diagram at "A", line in a flag ahead on random sec. line at point "B".

Flag "B" is visible from $\frac{1}{4}$ sec. cor. of sec. 34 on S. bdy. indicated on diagram at "C".

The measured base "C-A" is N. 89° 19' W., 40.01 chs.

The bearing "C-B" = N. 45° 49' W.

Included angles of triangle "A-B-C" are 90° 42', 45° 48' and 43° 30' the sum of which is 180° 00'.

Vertical angle "A" to "B" = +15°.

Triangulated dist. "A-B" = 33.41 chs. N. 0° 1' W.

From "B" chain measurement N. 0° 1' W., 2.56 chs. to point on random sec. line 40.97 chs. N. 0° 1' W. from cor. of secs. 33 and 34, which point is indicated on diagram at "D".

Point "D" is at top of cliffs and chaining farther N. is impracticable.

From "D" line in a flag "F" N. 0° 1' W., and beyond the objective sec. cor. point "G" which is inaccessible.

From "D" a flag "E" on the temp. witness cor. to cor. of secs. 27, 28, 33 and 34, bears N. 17° 20' W., and a flag "H" on the triangulation point on the sectional correction line 15 chs. W. of the temp. $\frac{1}{4}$ sec. cor., is visible from point "D" and bears N. 32° 31' E.

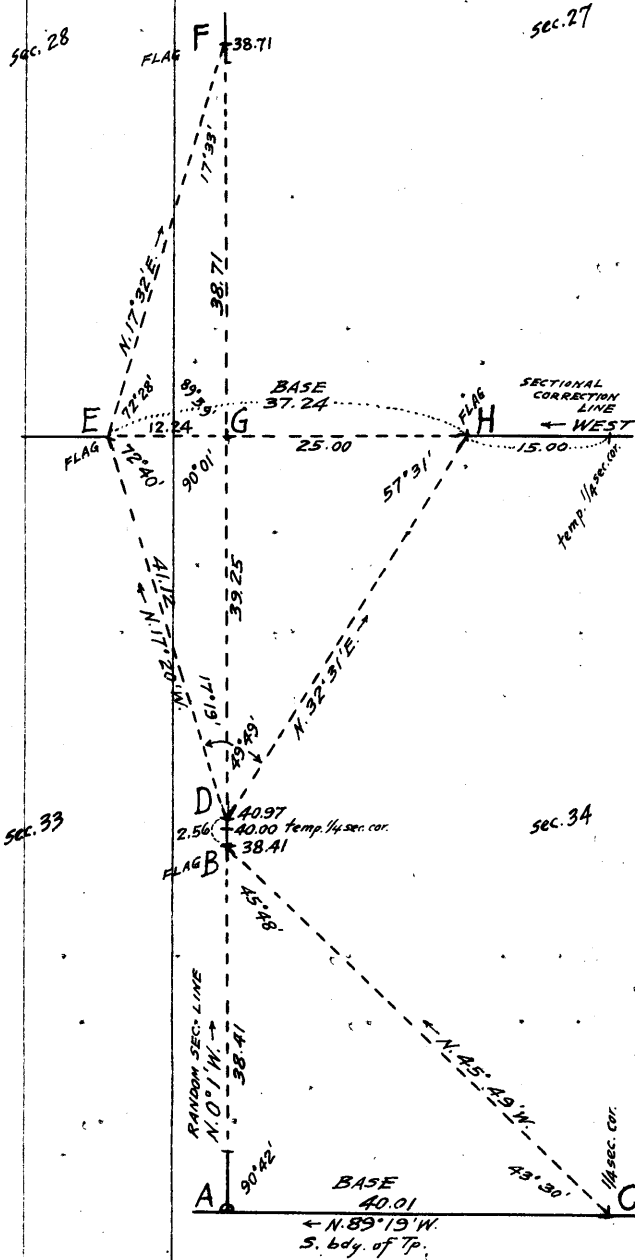
The included angles of triangle "D-E-H" are 49° 49', 72° 40' and 57° 31', the sum of which is 180° 00'.

The base "H-E" for solution of triangle "D-E-H" as measured by triangulation on sectional correction line is 37.24 chs. west.

Triangulated measurement of "D-E" by solution of triangle "D-E-H" = 41.12 chs. N. 17° 20' W.

Included angles of triangle "D-E-G" are 17° 19', 72° 40', and 90° 01', the sum of which is 180° 00'.

Triangulated measurement of "E-G" by solution of triangle "D-E-G" = 12.24 chs., which is identical with the measurement obtained by the triangulation on the sectional correction line, therefore the random sec. line passes thru the point for temp. cor. of secs. 27, 28, 33 and 34 on the sectional correction line.



Survey of Part (Completion) of the Subdivisional Lines of
Township 16 South, Range 8 East.

Chains Triangulated measurement of "D-G" by solution of triangle "D-E-G" = 39.25 chs. N. $0^{\circ} 1'$ W.
The length of sec. line bet. secs. 33 and 34 is, therefore, 40.97 chs. + 39.25 chs. = 80.22 chs. N. $0^{\circ} 1'$ W.
From flag "E" the flag "F" bears N. $17^{\circ} 32'$ E.
Included angles of triangle "E-F-G" are $72^{\circ} 28'$, $17^{\circ} 33'$ and $89^{\circ} 59'$ the sum of which is $180^{\circ} 00'$.
Triangulated measurement of "G-F" on sec. line bet. secs. 27 and 28 by solution of triangle "E-F-G" = 38.71 chs. N. $0^{\circ} 1'$ W.
Having obtained the length of line bet. secs. 33 and 34 by the triangulation described above, proceed to the survey of said line, as follows:
From reestablished cor. of secs. 33 and 34 on the S. bdy. of the township, hereinbefore described.
N. $0^{\circ} 1'$ W., on true line, bet. secs. 33 and 34.
Over mountainous land, thru scattering timber and undergrowth.
Descend 260 ft. over steep broken NE. slope. Chain measurement to
6.00 Bottom of gulch, course NE., containing a stream of water, 2 lks. wide, 2 ins. deep. Discontinue chaining. Asc. about 450 ft. over SE. slope. Measurement by triangulation to 38.41 ch. station.
20.00 (Approx.) Point of spur, slopes SE. Descend about 150 ft. over NE. slope.
24.00 (Approx.) Head of gulch, course SE. Ascend about 575 ft. over precipitous S. slope.
38.41 Triangulation point on spur sloping S. 60° E. Thence by chain measurement. Descend 55 ft. over NE. slope to
40.22 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported in a mound of stone for $\frac{1}{4}$ sec. cor. of secs. 33 and 34, marked on brass cap

$\frac{1}{4}$
 S 33 | S 34
 1920

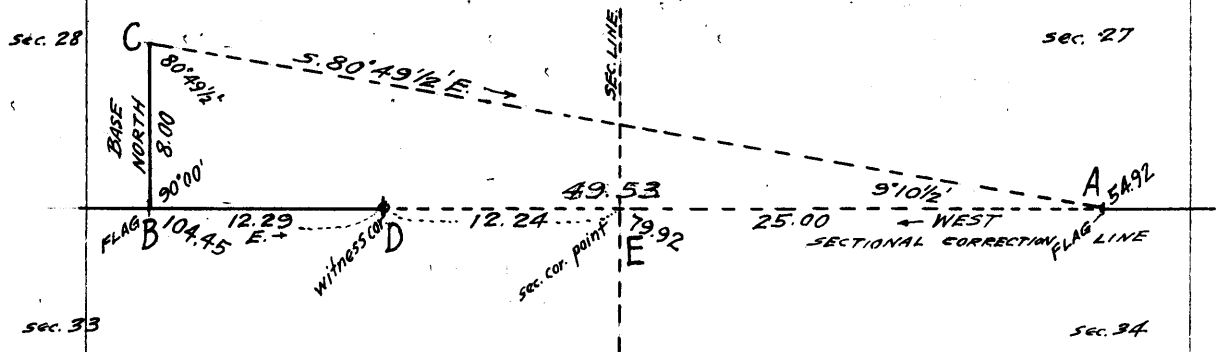
From which
Pine, 9 ins. in diam., brs. N. $86\frac{1}{2}^{\circ}$ W., 44 lks. dist. marked $\frac{1}{4}$ S 33 B T.
Oak, 9 ins. in diam., brs. N. $22\frac{1}{2}^{\circ}$ E., 20 lks. dist. marked $\frac{1}{4}$ S 34 B T.
Continue chaining. Descend 20 ft. over NE. slope to
40.97 Triangulation point at top of cliffs bearing E. and W., facing N. Discontinue chaining. Measurement to sec. cor. point by triangulation. Descend about 700 ft. over cliffs to
60.00 (Approx.) Bottom of gulch, course E., containing a stream of water 3 lks. wide, 3 ins. deep. Ascend about 600 ft. over precipitous broken S. slope to
80.22 Intersect the sectional correction line at the point for temp. cor. of secs. 27, 28, 33 and 34, 160.00 chs. West from cor. of secs. 25, 26, 35 and 36, or 79.92 chs. West from the cor. of secs. 26, 27, 34 and 35. This cor. point falls on face of cliffs where it is inaccessible, therefore, witness cor. is established 12.24 chs. W. as hereinafter described.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; oak and pine.
Undergrowth; scrub oak, catclaw and cactus.

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

- Chains From cor. of secs. 26, 27, 34 and 35.
 West, on true line, on sectional correction line, bet. secs. 27 and 34.
 Over mountainous land, thru very scattering timber and scattering undergrowth.
 Ascend 665 ft. over steep broken NE. slope.
 23.50 Ridge, brs. NW. and SE., general bearing N. and S.
 Descend 186 ft. over steep SW. slope.
 32.00 Bottom of gulch, course S., containing stream of water, 8 lks. wide, 4 ins. deep. Ascend 305 ft. over steep broken E. slope to
 39.96 True point for $\frac{1}{2}$ sec. cor. of secs. 27 and 34 falls on face of cliff where it is impracticable to set monument, therefore at
 40.15 Set an iron post, 3 ft. long, 1 in. 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 witness cor. to $\frac{1}{2}$ sec. cor. of secs. 27 and 34, marked on brass cap

$\frac{1}{2}$ $\frac{S\ 27}{S\ 34}$ W. C
 1920

- No bearing trees available. Ascend 570 ft. over steep broken E. slope to
 54.92 Spur, slopes S. Beyond this point the sec. line crosses a deep gorge with impassable cliffs on each side, therefore discontinue chaining and triangulate the measurement of the remainder of the line as described as follows and as shown on the diagram hereon



Line in a flag "B" at a point West of the objective sec. cor. point "E".
 Leave flag "A" at 54.92 ch. station and proceed to flag "B".
 From "B" measure a base North, 8.00 chs. to point "C", which is as long a base as can be chained.
 From "C" the bearing to flag "A" is S. 80° 49 $\frac{1}{2}$ ' E.
 Included angles of triangle "A-B-C" are 9° 10 $\frac{1}{2}$ ', 90° 00' and 80° 49 $\frac{1}{2}$ ', the sum of which is 180° 00'.
 Distance on sec. line = 54.92 chs. West.
 Distance triangulated = 49.55 " "
 Total distance = 104.45 " "
 From "B" chain measurement East 12.29 chs. to "D" which is at top of cliffs and as close to sec. cor. point "E" as can be reached. Therefore, establish witness cor. at "D" as hereinafter described.
 The dist "D-E" was computed by triangulation of the sec. line bet. secs. 33 and 34 as hereinbefore described and round to be 12.24 chs.
 The dist. "B-D-E" is, therefore 12.29 chs. + 12.24 chs. = 24.53 chs.
 The dist. "A-E" is, therefore, 49.55 chs. - 24.53 chs. = 25.00 chs. West.
 Distance of sec. line to point "A" = 54.92 chs. W.
 Triangulated dist. "A-E" = 25.00 " "
 Length of sec. line = 79.92 " "

**Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.**

Chains From 54.92 ch. point
Descend about 600 ft. over cliffs to
68.00 (Approx.) Bottom of gorge, 50 lks. wide, containing a
stream of water 10 lks. wide, 6 ins. deep, course SE.
Ascend about 400 ft. over cliffs to
79.92 Intersect the true point for cor. of secs. 27, 28, 33
and 34, in inaccessible position on face of cliffs.
Witness cor. to this sec. cor. established at 12.24
chs. West as hereinafter described in notes of survey
of sectional correction line, bet. secs. 28 and 33.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; oak and cedar.
Undergrowth; scrub oak, cedar and cactus.

From true point for cor. of secs. 27, 28, 33 and 34.
N. $0^{\circ} 1' W.$, on true line, bet. secs. 27 and 28.
Over mountainous land, thru scattering undergrowth.
Measurement of 38.71 chs. by triangulation hereinbefore
described in notes of survey of line bet. secs. 33
and 34. Ascend about 350 ft. over cliffs to
9.50 (Approx.) Point of spur slopes SE. Descend about 125
ft. over precipitous NE. slope to
14.00 (Approx.) Ascend about 100 ft. over precipitous broken
E. slope to
20.00 (Approx.) Bottom of gulch, course SE. Enter scattering
timber. Ascend about 700 ft. over cliffs to W. C. to
 $\frac{1}{4}$ sec. cor. From triangulation point chain measure-
ment S. $0^{\circ} 1' E.$, 0.70 chs. to
38.01 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in
the ground to bed rock, supported in a mound of stone
for witness cor. to $\frac{1}{4}$ sec. cor. of secs. 27 and 28,
marked on brass cap

W C
 $\frac{1}{4}$
S 28 | S 27
1920

From which

Pine, 9 ins. in diam., brs. S. $42\frac{1}{2}^{\circ} E.$, 16 lks. dist.
marked $\frac{1}{4}$ S 27 W C B T.
Oak, 8 ins. in diam., brs. S. $89^{\circ} W.$, 9 lks. dist.,
marked $\frac{1}{4}$ S 28 W C B T.

This monument is set on sec. line in as close proximity
to the cor. point as conditions of surface will per-
mit.

Continue line and measurement by chaining.

Ascend 80 ft. over steep S. slope to top of ridge.

38.71 Triangulation point. Continue chaining.
40.00 True point for $\frac{1}{4}$ sec. cor. falls on precipitous face of
rock where it is impracticable to set monument, there-
fore establish witness cor. at 1.99 chs. S. $0^{\circ} 1' E.$,
as described above.
40.30 Top of main ridge of the Coyote Mountains bears E. and
W. Descend 280 ft. over steep N. slope to
46.00 Bottom of gulch, course NE., near head. Ascend 150 ft.
over SE. slope.
56.50 Spur, slopes NE. Descend 900 ft. over steep broken N.
slope.
79.00 Bottom of gulch, course NE. Descend gradually over
steep E. slope to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins.
in the ground to bed rock, supported in a mound of
stone, for cor. of secs. 21 and 28, only, marked on
brass cap

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

Chains

T 16 S R 8 E
 $\frac{S 21}{S 28} | S 27$
 1920

From which

Pine, 14 ins. in diam., brs. S. 3° W., 115 lks. dist.,
 marked T 16 S R 8 E S 28 B T.
 Maple, 6 ins. in diam., brs. N. 89° W., 79 lks. dist.,
 marked T 16 S R 8 E S 21 B T.

Continue line and measurement, completing survey of W. bdy. of sec. 27. Descend 50 ft. over NE. slope to
 83.50 Intersect the S. bdy. of sec. 22 at a point 58 lks. E. of the temp. sec. cor. set at 80.00 chs. W. of the cor. of secs. 22 and 23. At point of intersection Set an iron post, 3 ft. long, 2 ins. in diam., 4 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. 21 and 27, only, marked on brass cap

S 22
 $\frac{S 21}{S 27} | S 27$
 T 16 S R 8 E
 1920

From which

Red oak, 16 ins. in diam., brs. S. 18½° E., 182 lks. dist., marked T 16 S R 8 E S 27 B T.
 No other bearing tree available.

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; pine, oak and maple.
 Undergrowth; scrub oak and pine.

From cor. of secs. 22 and 23.
 West, on random line, for distance, only.
 40.00 Set temp. ¼ sec. cor.
 79.42 Intersect the W. bdy. of sec. 27, surveyed N. 0° 1' W.
 80.00 Set temp. sec. cor.
 81.22 Fall 210 lks. S. of the temp. sec. cor. set at 80.00 chs. S. of the orig. cor. of secs. 15, 16, 21 and 22. The length of S. bdy. of sec. 22 is, therefore, 81.22 chs. and the length of N. bdy. of sec. 27 is 79.42 chs. + 0.60 chs. = 80.02 chs. Return to the cor. of secs. 22 and 23 (0.60 chs. W. of cor. of secs. 26 and 27).
 Thence
 West, on true line on S. bdy. of sec. 22.
 Over mountainous land, thru scattering timber and undergrowth.
 Descend 150 ft. over SW. slope.
 14.60 Bottom of gulch, course NW. Ascend 70 ft. over NE. slope.
 20.00 Point of spur, slopes N. Descend 60 ft. over NW. slope.
 27.00 Bottom of gulch, course N. Ascend 295 ft. over steep E. slope to
 39.41 (Midpoint of N. bdy. of sec. 27). Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for ¼ sec. cor. of sec. 27, only, marked on brass cap

$\frac{1}{4} S 27$
 1920

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains From which
White oak, 6 ins. in diam., brs. S. 13° W., 38 lks.
dist., marked $\frac{1}{4}$ S 27 B T.
White oak, 12 ins. in diam., brs. S. 43° W., 149 lks.
dist., marked $\frac{1}{4}$ S 27 B T.
Ascend slightly over E. slope to
39.50 Spur, slopes NE. Descend slightly over NW. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
the ground to bed rock, supported in a mound of stone,
for $\frac{1}{4}$ sec. cor. of sec. 22, only, marked on brass cap

$\frac{1}{4}$ S 22
1920

From which
Red oak, 4 ins. in diam., brs. N. 29° E., 49 lks.
dist., marked $\frac{1}{4}$ S 22 B T.
White oak, 10 ins. in diam., brs. N. 73 $\frac{1}{2}$ ° E., 54 lks.
dist., marked $\frac{1}{4}$ S 22 B T.
Descend 60 ft. over NW. slope.
48.00 Bottom of gulch, course NE. Ascend 210 ft. over E. slope.
60.00 Spur, slopes N. from SW. Desc. 120 ft. over W. slope.
65.00 Bottom of gulch, course NW., containing a stream of
water 2 lks. wide, 2 ins. deep. Ascend 320 ft. over
E. and NE. slopes to
79.42 (80.02 chs. W. of cor. of secs. 26 and 27). Intersect
the cor. of secs. 21 and 27, hereinbefore described
Continue line and measurement.
Ascend 50 ft. over NE. slope to
81.22 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in
the ground to bed rock, supported in a mound of stone,
for cor. of sec. 22, only, (SW. cor.) marked on brass
cap

S 21

T 16 S
R 8 E
S 22

1920

From which
Pine, 8 ins. in diam., brs. N. 2 $\frac{3}{4}$ ° E., 72 lks. dist.,
marked T 16 S R 8 E S 22 B T.
Pine, 14 ins. in diam., brs. N. 35 $\frac{1}{2}$ ° E., 105 lks.
dist., marked T 16 S R 8 E S 22 B T.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; oak and pine.
Undergrowth; scrub oak, pine and cactus.

From orig. cor. of secs. 15, 16, 21 and 22.
South, on random line, for distance only.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Set temp. sec. cor.
82.10 Fall 1.22 chs. W. of the temp. sec. cor. set on S. bdy.
of sec. 22, at 80.00 chs. W. of the cor. of secs. 22
and 23. Cor. of sec. 22 only (SW. cor.) established
at this point as hereinbefore described in notes of
survey of S. bdy. of sec. 22. The cor. of secs. 21
and 28 is 3.50 chs. S. of the cor. of secs. 21 and 27,
which is 1.80 chs. E. of the SW. cor. of sec. 22.
The northing of the E. bdy. of sec. 21 is, therefore,
82.10 chs. + 3.50 chs. = 85.60 chs.

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

Chains From cor. of sec. 22 (SW. cor).
 North, on true line, on W. bdy. of sec. 22.
 Over mountainous land, thru scattering timber and undergrowth.
 36.50 Descend 1430 ft. over steep broken NE. slope to (40.00 chs. in northing from cor. of secs. 21 and 28).
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 21, only, marked on brass cap

$\frac{1}{4}$ S 21 |
 1920

From which
 Maple, 8 ins. in diam., brs. S. $14\frac{1}{2}^\circ$ W., 80 lks. dist. marked $\frac{1}{4}$ S 21 B T.
 Maple, 6 ins. in diam., bears S. $75\frac{1}{2}^\circ$ W., 79 lks. dist., marked $\frac{1}{4}$ S 21 B T.

42.10 Descend 260 ft. over steep NE. slope to
 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, supported in a mound of stone for $\frac{1}{4}$ sec. cor. of sec. 22, only, marked on brass cap

$\frac{1}{4}$ S 22 |
 1920

From which
 Maple, 5 ins. in diam., brs. N. $57\frac{1}{2}^\circ$ E., 59 lks. dist., marked $\frac{1}{4}$ S 22 B T.
 Maple, 7 ins. in diam., brs. S. 59° E., 47 lks. dist., marked $\frac{1}{4}$ S 22 B T.

43.20 Descend 20 ft. over NE. slope to
 Bottom of gulch, course NW. Descend 200 ft. over W. slope to
 64.30 Spur, slopes NW. Descend 523 ft. over NE. slope to
 82.10 Intersect the orig. cor. of secs. 15, 16, 21 and 22, hereinbefore described.

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; pine, maple and oak.
 Undergrowth; cactus and scrub oak.

From orig. $\frac{1}{4}$ sec. cor. of secs. 29 and 32, hereinbefore described.
 East, on true line, bet. secs. 29 and 32 (E. $\frac{1}{2}$).
 Over mountainous land, thru scattering timber and undergrowth.

28.53 Ascend 547 ft. over steep, broken, W. slope to
 Point of spur slopes SW. Ascend 80 ft. over S. slope to
 39.30 Bottom of gulch, course SW., containing a small stream of water. Ascend slightly over W. slope to

40.55 Intersect the fourth meridional sec. line at 1.62 chs. S. of the temp. sec. cor. set thereon at 160.00 chs. S. of the orig. cor. of secs. 16, 17, 20 and 21.
 This point of intersection is the true point for cor. of secs. 29 and 32, but it is impracticable to set monument here, therefore establish witness cor. at 63 lks. S. as hereinafter described, in notes of survey of E. bdy. of sec. 32.

The temp. sec. cor. on the 4th meridional sec. line is 84.42 chs. N. from the cor. of secs. 32 and 33 on the S. bdy. of the township, the length of the E. bdy. of sec. 32 is, therefore, 84.42 chs. - 1.62 chs. = 82.80 chs.

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; oak and mesquite.
 Undergrowth; scrub oak and cactus.

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

- Chains The sectional correction line intersects the 4th meridional sec. line at 4.66 chs. S. of the temp. sec. cor. set at 160.00 chs. S. of the orig. cor. of secs. 16, 17, 20 and 21, therefore the length of W. bdy of sec. 33 is 84.42 chs. - 4.66 chs. = 79.76 chs. From the true point for reestablished cor. of secs. 32 and 33 on the S. bdy. of the township witnessed 0.28 chs. S. 89° 19' E., as hereinbefore described,
North, on true line, on E. bdy. of sec. 32, identical with bdy. of Papago Indian Reservation, sec. 32 being within said reservation.
Over mountainous land; thru scattering timber and undergrowth.
Descend gradually along steep W. slope to
- 8.80 Spur, slopes NW. Descend 190 ft. over NE. slope.
15.93 Bottom of gulch, course NW. Ascend 75 ft. over SW. slope.
22.00 Spur, slopes NW. Descend 300 ft. over steep N. slope to
37.50 Bottom of gulch, course NW. Ascend 45 ft. over SW. slope to
- 39.76 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. of sec. 33, only, marked on brass cap
- $\frac{1}{4}$ S 33
1920
- From which
Maple, 6 ins. in diam., brs. S. 4 $\frac{1}{4}$ ° E., 142 lks. dist., marked $\frac{1}{4}$ S 33 B T.
No other bearing tree available.
Ascend 21 ft. over SW. slope to
- 41.40 (Midpoint of E. bdy. of sec. 33). Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 32, only, marked on brass cap
- $\frac{1}{4}$ S 32 |
1920
- From which
Mesquite, 6 ins. in diam., brs. S. 22 $\frac{1}{2}$ ° W., 99 lks. dist., marked $\frac{1}{4}$ S 32 B T.
Mesquite, 6 ins. in diam., brs. N. 42 $\frac{3}{4}$ ° W., 75 lks. dist., marked $\frac{1}{4}$ S 32 B T. Ascend 85 ft. over SW. slope.
- 46.40 Point of spur, slopes SW. Descend 46 ft. over NW. slope.
50.02 Bottom of gulch, 10 lks. wide, course SW. Ascend 103 ft. over S. slope.
58.93 Spur, slopes SW. Desc. 151 ft. over NW. slope to
69.10 Ascend 28 ft. over SW. slope.
73.15 Spur, slopes W. Descend 116 ft. over NW. slope to
79.70 Head of gulch, course W. Ascend slightly over W. slope to
- 79.76 Intersect the cor. of secs. 28 and 33, established at point of intersection of the sectional correction line with the fourth meridional sec. line as herein-after described in notes of survey of line bet. secs. 28 and 33.
Continue line and measurement.
Ascend 15 ft. over steep broken W. slope to
- 82.17 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 witness cor. to cor. of secs. 29 and 32, marked on brass cap

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

Chains

	W	C
T 16 S		
R 8 E		
S 29		S 28
S 32		
1920		

From which
 Mesquite, 8 ins. in diam., brs. S. 54 $\frac{1}{2}$ ° W., 262 lks. dist., marked T 16 S R 8 E S 32 W C B T.

No other bearing tree available.
 82.80 True point for cor. of secs. 29 and 32, falls among rocks where it is impracticable to set monument, therefore witness cor. is established at 63 lks. S. as described above.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; mesquite, oak, maple and pine.
 Undergrowth; scrub oak, mesquite and cactus.

From true point for cor. of secs. 27, 28, 33 and 34. West, on true line, on sectional correction line, bet. secs. 28 and 33.

Over mountainous land, thru scattering timber and undergrowth, over cliffs facing S.
 Measurement by triangulation to 24.53 ch. station and return measurement by chaining to 12.24 ch. station as hereinbefore described in notes of survey of lines bet. secs. 27 and 34.
 12.24 Set an iron post, 3 ft. long, 2 ins. in diam., 18 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 witness cor. to cor. of secs. 27, 28, 33 and 34, marked on brass cap.

T 16 S	R 8 E	
S 28		S 27 W C
S 33		S 34
1920		

From which
 Oak, 10 ins. in diam., brs. S. 60° E., 38 lks. dist., marked T 16 S R 8 E S 33 W C B T.
 Pine, 10 ins. in diam., brs. S. 26° W., 50 lks. dist., marked T 16 S R 8 E S 33 W C B T.
 No other bearing trees available.

Continue line and measurement by chaining.
 Ascend 450 ft. over steep E. slope.
 24.53 Triangulation point on top of main ridge of the Coyote Mountains bearing N. and S. Continue chaining.
 Descend 150 ft. over steep broken W. slope to
 35.00 Head of gulch, course SW. Descend 80 ft. over steep S. slope to
 40.00 True point for $\frac{1}{4}$ sec. cor. falls on nearly perpendicular slope where it is impracticable to set monument, therefore establish witness cor. at 3.20 chs. W.
 Descend 26 ft. over S. slope to
 43.20 Set an iron post, 3 ft. long, 1 in. 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 witness cor. to $\frac{1}{4}$ sec. cor. of secs. 28 and 33, marked on brass cap

$\frac{1}{4}$	S 28	
		W C
	S 33	
1920		

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains No bearing trees available. Descend 16 ft. over S. slope to
45.00 Spur, slopes SW. Descend 540 ft. over W. and SW. slopes to
81.51 Intersect the fourth meridional sec. line at 3.04 chs. S. of the true point for cor. of secs. 29 and 32.
At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 4 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 and 33, only, marked on brass cap

	T 16 S	
	R 8 E	
	S 28	
S 32	S 33	
	1920	

From which

Maple limb, 6 ins. in diam., bears N. $36\frac{1}{2}^{\circ}$ E., 142 lks. dist., marked T 16 S R 8 E S 28 B T.

No other bearing tree available.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; oak, pine, cedar and maple.

Undergrowth; scrub oak, cedar and cactus.

From orig. $\frac{1}{4}$ sec. cor. of secs. 20 and 29, hereinbefore described.

East, on true line, bet. secs. 20 and 29 ($E.\frac{1}{2}$).

Over mountainous land, thru scattering timber and undergrowth.

Ascend 700 ft. over steep broken W. and NW. slopes.

35.90 Spur, slopes SW. Ascend gradually over steep S. slope to

40.18 Intersect the fourth meridional sec. line at a point 1.20 chs. S. of the temp. sec. cor. set thereon at 80.00 chs. S. of the orig. cor. of secs. 16, 17, 20 and 21.

The point of intersection is the true point for cor. of secs. 20 and 29, and the length of E. bdy. of sec. 20 is 80.00 chs. + 1.20 chs. = 81.20 chs.

This sec. cor. point falls on nearly perpendicular slope where it is impracticable to set monument therefore establish witness cor. to cor. of secs. 20 and 29 at 11 lks. S. from the cor. point as hereinafter described in notes of survey of E. bdy. of sec. 29.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; oak and cedar.

Undergrowth; scrub oak and cactus.

The intersections of the $E.\frac{1}{2}$ of sec. line bet. secs. 29 and 32, and the $E.\frac{1}{4}$ of sec. line, bet. secs. 20 and 29, with the fourth meridional sec. line, being south 1.62 and 1.20 chs. respectively, from temp. sec. cors. thereon 80.00 chs. apart, the length of E. bdy. of sec. 29 is 80.42 chs.

From true point for cor. of secs. 29 and 32.

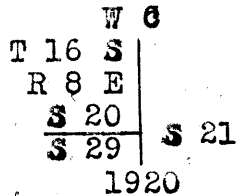
North, on true line, on E. bdy. of sec. 29, identical with bdy. of Papago Indian Reservation, sec. 29 being within said reservation

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

- Chains Over mountainous land, thru scattering timber and undergrowth.
- 0.92 Descend slightly over rocks on W. slope.
Bottom of gulch, course SW., containing a small stream of water. Ascend 193 ft. over steep S. slope.
- 7.25 Spur, slopes SW. Descend 215 ft. over NW. slope.
- 15.93 Head of gulch, course SW. Ascend 178 ft. over S. slope.
- 23.95 Spur, slopes W. Descend 132 ft. over N. slope.
- 28.66 Head of gulch, course SW. Ascend 60 ft. over SW. slope.
- 33.77 Spur, slopes W. Descend 90 ft. over steep rocky NW. slope to
- 36.96 (40.00 chs. N. of cor. of secs. 28 and 33). True point for $\frac{1}{4}$ sec. cor. of sec. 28, only, falls on nearly perpendicular slope where it is impracticable to set monument, therefore, establish witness cor. at 2.33 chs. N. Descend 40 ft. over NW. slope to
- 39.29 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 around post, for witness cor. to $\frac{1}{4}$ sec. cor. of sec. 28, only, marked on brass cap
- | $\frac{1}{4}$ S 28
W C
1920
- No bearing trees available.
- 40.21 Descend 40 ft. over steep NW. slope to (Mid-point of E. bdy. of sec. 29). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 29, only, marked on brass cap
- $\frac{1}{4}$ S 29 |
1920
- From which
- Oak, 10 ins. in diam., brs. N. 47° W., 78 lks. dist., marked $\frac{1}{4}$ S 29 B T.
- Oak, 8 ins. in diam., brs. N. $21\frac{1}{2}^{\circ}$ W., 89 lks. dist., marked $\frac{1}{4}$ S 29 B T.
- Descend 165 ft. over NW. slope.
- 47.37 Bottom of gulch, course W., containing a small stream of water. Ascend 197 ft. over SW. slope.
- 56.92 Point of spur, slopes W. Descend 47 ft. over NW. slope.
- 60.40 Head of gulch, course SW. Ascend 153 ft. over S. slope.
- 65.02 Spur, slopes SW. from E. Descend 212 ft. over NW. slope to
- 76.76 Set an iron post, 3 ft. long, 2 ins. 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 witness cor. to cor. of secs. 21 and 28, only, marked on brass cap
- W C
| T 16 S
R 8 E
S 21
S 29 | S 28
1920
- No bearing trees available. Descend slightly over NW. slope to
- 76.96 (80.00 chs. N. of the cor. of secs. 28 and 33). The true point for cor. of secs. 21 and 28, only, falls on rim of cliffs bearing NE. and SW., facing NW., where it is impracticable to set monument, therefore establish witness cor. at 20 lks. S. as described above.
The boundary of the Papago Indian Reservation extends E. and S. from this cor., identical with the sec.

Survey of Part (Completion) of the Subdivision Lines of Township 16 South, Range 8 East.

Chains lines, secs. 20, 21 and 29 being within said reservation.
 Continue line and measurement. Descend 76 ft. over cliffs to
 79.62 Bottom of gulch, 10 lks. wide, course SW. Ascend 20 ft. over S. slope to
 80.31 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 witness cor. to cor. of secs. 20 and 29, only, marked on brass cap



From which
 White oak, 6 ins. in diam., brs. S. $1\frac{1}{2}^{\circ}$ W., 183 lks. dist., marked T 16 S R 8 E S 29 W:CBT

No other bearing tree available. Ascend over precipitous S. slope to

80.42 Intersect the true point for cor. of secs. 20 and 29, only. This point is on precipitous slope where it is impracticable to set monument, therefore, establish witness cor. at 11 lks. S. at foot of precipitous slope as described above.

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; oak and mesquite.
 Undergrowth; scrub oak and cactus.

From true point for cor. of secs. 21 and 28. East, on random line, bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{2}$ sec. cor.
 81.42 Fall 7 lks. S. of the cor. of secs. 21 and 28 on the W. bdy. of sec. 27.

Thence
 S. $89^{\circ} 57'$ W., on true line, bet. secs. 21 and 28, identical with bdy. of the Papago Indian Reservation, secs. 21 and 22, being within said reservation.

Over mountainous land, thru scattering timber and undergrowth. Ascend 310 ft. over steep NE. slope.

14.49 Spur, slopes N. 25° W. Descend 311 ft. over steep, broken W. slope:

22.00 Bottom of gulch, 10 lks. wide, course NW. Ascend 203 ft. over NE. slope.

28.98 Point of spur, slopes N. Descend 327 ft. over precipitous NW. slope.

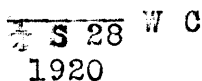
38.00 Head of gulch, course NE., at foot of cliff 70 ft. high, facing E.

40.00 True point for $\frac{1}{4}$ sec. cor. of sec. 28, only, falls on face of cliff, where it cannot be monumented, therefore establish witness cor. at 1.23 chs. W.

X S. $89^{\circ} 57' W$

41.00 Top of cliff, bearing N. and S. facing E. Ascend slightly over E. slope to

41.23 Set an iron post, 3 ft. long, 1 in. 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 witness cor. to $\frac{1}{4}$ sec. cor., of Sec. 28, only, marked on brass cap



Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains	No bearing trees available. Ascend slightly over E. slope to
41.42	Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 21, only, marked on brass cap
	$\frac{1}{4}$ S 21 1920
	From which
	Pine, 4 ins. in diam., brs. N. $27\frac{1}{2}^{\circ}$ E., 61 lks. dist., marked $\frac{1}{4}$ S 21 B T.
	Pine, 4 ins. in diam., brs. N. 70° E., 38 lks. dist., marked $\frac{1}{4}$ S 21 B T.
	Ascend slightly over E. slope to
41.80	Spur, slopes N. Descend 120 ft. over precipitous broken W. slope.
44.00	Bottom of gulch, course N. Ascend 290 ft. over E. slope.
53.60	Spur, slopes N. 25° W., at top of cliff 100 ft. high, facing west. Descend 1021 ft. over steep W. slope.
78.60	Bottom of gulch, course NW. Asc. 45 ft. over NE. slope to
81.42	The true point for cor. of secs. 21 and 28, witnessed 20 lks. S., as hereinbefore described.
	Land; mountainous. Soil; rocky, 4th rate. Timber; oak and pine. Undergrowth; scrub oak and cactus.
	From true point for cor. of secs. 20 and 29 (W. C., 0.11 chs. S.).
	North, on true line on E. bdy. of sec. 20. Over mountainous land, thru scattering undergrowth. Ascend 66 ft. over S. slope.
3.10	Spur, slopes SW. Desc. 63 ft. over NW. slope.
8.20	Head of gulch, course SW. Ascend 96 ft. over SW. slope.
13.20	Spur, slopes W. Descend 66 ft. over N. slope.
16.90	Head of gulch, course W. Asc. 152 ft. over SW. slope.
22.25	Spur, slopes W. Descend 400 ft. over precipitous N. slope to
33.36	Set an iron post, 3 ft. long, 1 in. 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 witness cor. to $\frac{1}{4}$ sec. cor. of sec. 21, only, marked on brass cap
	W C $\frac{1}{4}$ S 21 1920
	No bearing trees available. Descend slightly over N. slope to
33.40	Bottom of gulch, 10 lks. wide, course W. Ascend 94 ft. over precipitous S. slope to
36.54	(40.00 chs. N. of true point for cor. of secs. 21 and 28) True point for $\frac{1}{4}$ sec. cor. of sec. 21 falls on precipitous slope where it is impracticable to set monument, therefore establish witness cor. at 3.18 chs. S. as described above. Ascend 175 ft. over precipitous S. slope to
39.64	Top of precipitous ascent. Ascend 6 ft. over S. slope to
40.60	(Mid-point of E. bdy. of sec. 20). Set an iron post, 3 ft. long, 1 in. 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 $\frac{1}{4}$ sec. cor. of sec. 20, only,

Survey of Part (Completion) of the Subdivision Lines of
Township 16 South, Range 8 East.

Chains	marked on brass cap.
	$\frac{1}{2}$ S. 20 1920
41.80	No bearing trees available. Ascend slightly over S. slope to spur, slopes W. Descend 505 ft. over steep N. slope broken by cliffs.
54.60	Bottom of gulch, 10 lks. wide, course W., near head. Ascend 160 ft. over SW. slope.
57.80	Spur, slopes NW. Descend 227 ft. over NE. slope to
73.30	Ascend 20 ft. over SE. slope.
79.00	Point of short spur, slopes NE. Descend 39 ft. over NE. slope to
81.20	Intersect the orig. cor. of secs. 16, 17, 20 and 21, hereinbefore described.
	Land; mountainous.
	Soil; rocky, 4th rate.
	Timber; none.
	Undergrowth; scrub oak and cactus.

The continued satisfactory adjustment of the solar apparatus of the transits used in the execution of the retracements, resurveys and surveys described in the foregoing notes, is indicated from field tests described in Book "B" of this group.

GENERAL DESCRIPTION.

The surface of that portion of T.16 S., R.8 E., included within the lines retraced, resurveyed and surveyed, as described in the foregoing notes, namely, secs. 20 to 23, 25 to 29, and 32 to 36, is mainly mountainous, embracing the highest and roughest part of the Coyote Mountains, the slopes of which are very steep and broken by numerous cliffs.

There are several small areas of rolling land in secs. 20, 21, 22, 23, 25, 29, 35 and 36.

In parts of secs. 25, 29, 32 and 36 the surface is gently rolling, and in parts of secs. 20, 23, 29, 35 and 36, there is a nearly level surface.

The greater part of the NW. quarter of sec. 20 is level. The soil is thin, and is mostly rocky, 4th rate, except in the west halves of secs. 20, 29, and 32, and parts of secs. 25, 35 and 36, where there is a sandy and gravelly soil, 3rd rate.

A small area in the SE+ $\frac{1}{4}$ of sec. 35 has a sandy, 2nd rate soil.

The timber consisting of oak, pine, cedar, maple, mesquite, palo verde and catclaw is very scattering in secs. 23, 25, 26, 27, 35 and 36, and scattering in secs. 21, 22, 28, 33 and 34, and parts of secs. 29 and 32.

There is no timber in sec. 20, the W. half of sec. 29, and part of sec. 32.

None of the timber is of commercial value.

The undergrowth, consisting of scrub oak, cedar, pine, catclaw, mesquite, palo verde, greasewood and several varieties of cactus, is dense in parts of secs. 20, 22, 23, 29, 32, 35 and 36, and scattering elsewhere.

The grass is poor in all sections.

A small stream of good water flowing easterly thru. the southern part of secs. 34 and 35, and a spring on line bet. secs. 31 and 32, constitute the only water supply in this part of the township.

GENERAL DESCRIPTION, continued.

There is an abandoned copper mine in sec. 26 from which, some ore has been shipped. Several prospect holes in secs. 23 and 26 give indications of copper ore in said secs.

There are no settlers in this part of the township, except Indians, who have a village known as "Coyote," situated in secs. 19, 20, 29 and 30, within the Papago Indian Reservation.

Said Reservation embraces all of the land in this township, with the exception of secs. 25 to 28, 33 to 36, and the N. $\frac{1}{2}$ SW $\frac{1}{4}$ of sec. 10.

A road extends northeasterly from "Coyote" Indian Village to Tucson, Arizona, which, with the exception of a dirt road N. and S. thru. sec. 35 is the only road traversing this part of the township.

There are no improvements except the habitations of the Indians at Coyote.

CERTIFICATE OF UNITED STATES TRANSITMAN.

50

I, Karl L. Siebecker, 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 Subdivision lines; and resurveyed all those parts or portions of the East boundary and Subdivision lines; and surveyed all those parts or portions of the Subdivision lines of TOWNSHIP 16 SOUTH, RANGE 8 EAST. of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in 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 retracements, resurveys 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: San Francisco, Calif.
 Date: Nov. 16th 1925

Karl L. Siebecker
 United States Transitman.

~~APPROVAL.~~

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~

~~10~~

~~The foregoing field notes of the survey of~~

~~executed by~~

~~under his special instructions dated~~ 10 ~~having been~~
~~critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys~~
~~they describe, are hereby approved.~~

~~U. S. Surveyor General.~~

~~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.~~

~~U. S. Surveyor General.~~

CERTIFICATE OF UNITED STATES SURVEYOR. TRANSITMAN.

I, Charles E. Hunter, U. S. Surveyor, 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, surveyed all those parts or portions of reestablished the 1/4 sec. cor. of Secs. 5 and 32, on the South Boundary of Township 16 South, Range 8 East,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof said 1/4 sec. cor. the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said 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 survey reestablishment of cor.

Place. Phoenix, Arizona

Charles E. Hunter, U. S. Transitman, U. S. Surveyor

Date, October 28, 1925

APPROVALS.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

-----, 191

The foregoing field notes of the survey of -----

executed by ----- under his special instructions dated -----, 191--, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General

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.

U. S. Surveyor General

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Guy R. Veal, U. S. Surveyor, 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 Subdivision lines; and resurveyed all those parts or portions of the South and East boundaries, and Subdivision lines; and surveyed all those parts or portions of the Subdivision lines of TOWNSHIP 16 SOUTH, RANGE 8 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in 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 Everglades, Fla. Date Nov. 4, 1925. Guy R. Veal U. S. Surveyor.

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 the South and East boundaries, and Part of the Subdivision lines; and of the survey of Part (completion) of the Subdivision lines, all of TOWNSHIP 16 SOUTH, RANGE 8 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Guy R. Veal, U.S. Surveyor, and Karl L. Siebecker, U.S. Transitman,

under his special instructions dated September 25, 1919, for Grp. 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.

United States 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.