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Book "D"
4-679

BOOK 3668

FIELD NOTES

OF THE RESURVEY OF

Part (N. 2) of the East Boundary,

and of the survey of

Part of the Subdivision lines of

TOWNSHIP 16 SOUTH, RANGE 6 EAST.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Charles E. Hunter, U. S. Transitman.

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

Resurvey and
Survey commenced December 10, 1924.

Resurvey and
Survey completed December 12, 1924.

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1A

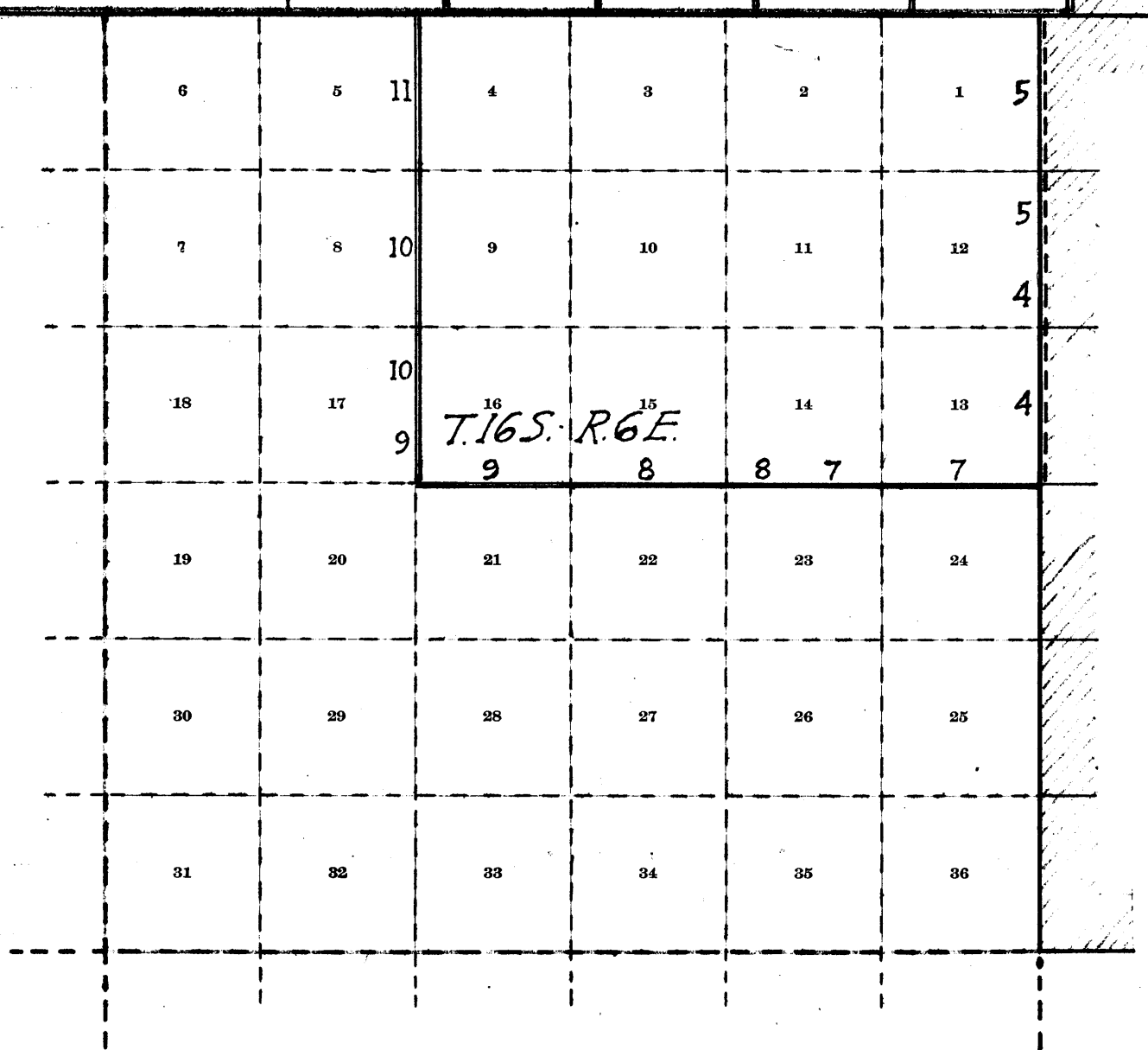
Book "D"

Group 100---Arizona.

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INDEX DIAGRAM.

3rd Standard Parallel South



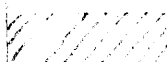
————— Lines surveyed under this group.

----- Lines resurveyed under this group.

===== Lines resurveyed under current group No.99.

————— Accepted surveys.

----- Unsurveyed.

 Areas surveyed as per accepted plats on file.

Book "D"

Group 100 Arizona

Township 16 South, Range 6 East

DATE DIAGRAM

1924

3rd Standard Parallel South

resurveyed in May 1924 by W.H.Thorn, U.S.C.E. under current Group 99

6	5	12-12	4	3	2	1	12-10
7	8	12-11	9	10	11	12	12-10
18	17	12-11	16	15	14	13	12-10
			12-11	12-11	12-11	12-10	
19	20		21	22	23	24	
30	29		28	27	26	25	
31	32		33	34	35	36	

- Indicates lines surveyed by Charles E. Hunter, U.S. Transitman on dates shown thereon.
- - - - - Indicates lines resurveyed by Charles E. Hunter, U.S. Transitman on dates shown thereon.
- Indicates accepted surveys.
- - - - - Indicates unsurveyed lines.

Resurvey and survey hereinafter described, executed by Charles E. Hunter, U. S. Transitman, on dates shown on diagram on page 1 hereof, using Buff and Buff transit No. 10125. This instrument is equipped with full vertical circle and Smith solar attachment. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

December 7, 1924: Examine the adjustment of the instrument and correct all errors, then, to test the solar apparatus by comparing its indications from observations made during a. m. and p. m. hours with the meridian determined by Polaris observation on Nov. 23, 1924 at camp near cor. of secs. 26, 27, 34 and 35, T. 15 S., R. 6 E., G. & S. R. B. & M., Arizona, latitude $32^{\circ} 5' N.$, longitude $111^{\circ} 40' W.$, proceed as follows:*

At 8 h. 00 m., a. m., l. m. t., set off $32^{\circ} 5' N.$, on the lat. arc, $22^{\circ} 34\frac{1}{2}' S.$ on the decl. arc and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian and obtain a reading of $22^{\circ} 38' S.$ on the decl. arc which agrees with the computed declination of the sun.

At 4 h. 00 m., p. m., l. m. t., with the lat. arc unchanged, set off $22^{\circ} 37' S.$ on the decl. arc, and determine a meridian with the solar which agrees with the true meridian.

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

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

Resurvey of part (N. $\frac{1}{2}$) of East boundary of Township 16 South, Range 6 East.

Chains This township bdy. was surveyed in 1886 by George J. Roskrige, U. S. D. S., establishing all cor. monuments thereon with a common reference to areas on both sides of the line. No retracement or resurvey of any part of this range line is of record.

The south 2 miles of the line are within the Papago Indian Reservation; the mile bet. secs. 19 and 24 forms part of the bdy. of said reservation and the north 3 miles are situate outside of the reservation.

The following notes describe a resurvey of the range line bet. secs. 13 and 18, 7 and 12, and 1 and 6, T. 16 S., Rs. 6 and 7 E.

RETRACEMENT FOR RESURVEY.

- From closing cor. of T. 16 S., Ra. 6 and 7 E., on the 3rd Std. Par. S., hereinafter described.
- South, on random line, bet. secs. 1 and 6 (N. $\frac{1}{2}$).
- 43.28 Fall 43 lks. E. of the orig. $\frac{1}{4}$ sec. cor. of secs. 1 and 6, hereinafter described.
True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 1 and 6 are, therefore, N. 0° 34' E., 43.28 chs.
Thence
- South, on random line, bet. secs. 1 and 6 (S. $\frac{1}{2}$).
- 40.15 Fall 12 lks. E. of orig. cor. of secs. 1, 6, 7 and 12, hereinafter described.
True course and dist. of S. $\frac{1}{2}$ of line bet. secs. 1 and 6 are, therefore, N. 0° 10' E., 40.15 chs.
-
- South, on random line, bet. secs. 7 and 12 (N. $\frac{1}{2}$).
- 40.11 Fall 15 lks. E. of orig. $\frac{1}{4}$ sec. cor. of secs. 7 and 12, hereinafter described.
True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 7 and 12 are, therefore, N. 0° 13' E., 40.11 chs.
Thence
- South, on random line bet. secs. 7 and 12 (S. $\frac{1}{2}$).
- 40.11 Fall 17 lks. E. of orig. cor. of secs. 7, 12, 13 and 18, hereinafter described.
True course and dist. of S. $\frac{1}{2}$ of line bet. secs. 7 and 12, are, therefore, N. 0° 15' E., 40.11 chs.
-
- South, on random line, bet. secs. 13 and 18 (N. $\frac{1}{2}$).
- 40.33 Fall 16 lks. E. of orig. $\frac{1}{4}$ sec. cor. of secs. 13 and 18, hereinafter, described.
True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 13 and 18 are, therefore, N. 0° 14' E., 40.33 chs.
Thence
- South, on random line, bet. secs. 13 and 18 (S. $\frac{1}{2}$).
- 40.20 Fall 16 lks. E. of the orig. cor. of secs. 13, 18, 19 and 24, hereinafter described.
True course and dist. of S. $\frac{1}{2}$ of line bet. secs. 13 and 18 are, therefore, N. 0° 14' E., 40.20 chs.
-

R E S U R V E Y.

The orig. cor. of secs. 13, 18, 19 and 24 is a granite stone, 12 x 8 x 6 ins., above ground, firmly set, marked with 3 notches on each of N. and S. faces and witnessed by two properly marked bearing trees as follows:

Resurvey of part (N. $\frac{1}{2}$) of East Boundary of
Township 16 South, Range 6 East.

Chains	<p>A mesquite, 10 ins. in diam., S. $29\frac{3}{4}^{\circ}$ E., 285 lks. dist., and</p> <p>A mesquite, 9 ins. in diam., N. $29\frac{1}{2}^{\circ}$ W., 108 lks. dist.</p> <p>Cannot find the original bearing trees N. 76° W., and N. 89° W.</p> <p>This cor. monument being insufficiently witnessed, provide two additional bearing trees as follows:</p> <p>A mesquite, 12 ins. in diam., N. $76\frac{1}{2}^{\circ}$ E., 176 lks. dist., marked T 16 S R 7 E S 18 B T.</p> <p>A mesquite, 5 ins. in diam., S. $88\frac{3}{4}^{\circ}$ W., 318 lks. dist., marked T 16 S R 6 E S 24 B T.</p> <p>This cor. is a point on the bdy. of the Papago Indian Reservation which extends W., identical with subdivision line, and South identical with the range line. Sec. 24, T. 16 S., R. 6 E., is within said reservation. From the above described sec. cor. a fence extends W. and S.</p> <p>Thence</p> <p>N. $0^{\circ} 14'$ E., on true line, bet. secs. 13 and 18 (S. $\frac{1}{2}$). Over-level land, thru scattering timber and undergrowth.</p> <p>0.70 Road, brs. N. 80° W., and S. 80° E.</p> <p>24.75 Center of wash, 100 lks. wide, course NW.</p> <p>40.20 Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 13 and 18, which is a granite stone, 10 x 6 x 8 ins. above ground, marked "$\frac{1}{4}$" on W. face, firmly set, and witnessed by the stump of one of the original bearing trees S. 1° W., 33 lks. dist., unmarked. No trace of the mesquite bearing tree recorded as S. 86° W., 22 lks. dist. This cor. monument being insufficiently witnessed, provide bearing trees as follows:</p> <p>A mesquite, 4 ins. in diam., N. $75\frac{1}{2}^{\circ}$ E., 50 lks. dist., mkd. $\frac{1}{4}$ S 18 B T.</p> <p>A mesquite, 4 ins. in diam., S. $79\frac{1}{2}^{\circ}$ W., 24 lks. dist., marked $\frac{1}{4}$ S 13 B T.</p> <p>Thence</p> <p>N. $0^{\circ} 14'$ E., on true line, bet. secs. 13 and 18 (N. $\frac{1}{2}$) Over-level land, thru scattering timber and undergrowth.</p> <p>40.33 Intersect the orig. cor. of secs. 7, 12, 13 and 18, which is a granite stone 10 x 6 x 6 ins., above ground, firmly set, marked with 2 notches on N. face and 4 notches on S. face, and witnessed by three properly mkd. bearing trees, as follows:</p> <p>A mesquite, 6 ins. in diam., N. $18\frac{1}{2}^{\circ}$ E., 205 lks. dist.</p> <p>A mesquite, 8 ins. in diam., N. $64\frac{1}{2}^{\circ}$ E., 98 lks. dist., and</p> <p>A mesquite, 5 ins. in diam., S. $25\frac{1}{4}^{\circ}$ E., 151 lks. dist.</p> <p>Cannot find the original mesquite bearing tree S. 7° E., 87 lks. dist.</p> <p>This cor. monument being insufficiently witnessed, provide an additional bearing tree, as follows:</p> <p>A mesquite, 5 ins. in diam., S. $26\frac{3}{4}^{\circ}$ W., 225 lks. dist., marked T 16 S R 6 E S 13 B T.</p> <p>No bearing tree NW. of cor. is available.</p> <p>Land; level. Soil; sandy, 1st rate. Timber; mesquite and palo verde. Undergrowth; catclaw and cactus.</p> <hr/> <p>N. $0^{\circ} 15'$ E., on true line, bet. secs. 7 and 12 (S. $\frac{1}{2}$). Over-level land, thru scattering timber and undergrowth.</p> <p>30.85 Wash, 25 lks. wide, course NE.</p> <p>40.11 Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 7 and 12, which is a granite stone 8 x 6 x 5 ins. above ground, firmly set, mkd. "$\frac{1}{4}$" on W. face and witnessed by the two properly mkd. original bearing trees, as follows:</p>
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Resurvey of part (N. $\frac{1}{2}$) of East Boundary of
Township 16 South, Range 6 East.

Chains

A mesquite, 10 ins. in diam., S. $80\frac{1}{4}^{\circ}$ E., 152
lks. dist., and
A mesquite, 8 ins. in diam., S. 22° W., 139 lks.
dist.

The bearing tree S. $80\frac{1}{4}^{\circ}$ E., was erroneously recorded in
the notes of the original survey as N. 80° E.

Thence

N. $0^{\circ} 13'$ E., on true line, bet. secs. 7 and 12 (N. $\frac{1}{2}$).
Over-level land, thru scattering timber and undergrowth.

40.11 Intersect the orig. cor. of secs. 1, 6, 7 and 12, which
is a granite stone, 10 x 6 x 12 ins. above ground,
firmly set, mkd. with 1 notch on N. face and 5 notches
on S. face, and witnessed by two properly marked bearing
trees, as follows:

A mesquite, 8 ins. in diam., S. $0\frac{1}{4}^{\circ}$ E., 214 lks.
dist., and

A mesquite, 10 ins. in diam., S. $56\frac{3}{4}^{\circ}$ W., 216
lks. dist.

Can find no trace of the orig. mesquite bearing trees.
N. 16° W., and S. 57° W.

This cor. monument being insufficiently witnessed pro-
vide two additional bearing trees, as follows:

A mesquite, 6 ins. in diam., N. $11\frac{1}{2}^{\circ}$ E., 144
lks. dist., marked T 16 S R 7 E S 6 B T.

A mesquite, 6 ins. in diam., N. $3\frac{1}{2}^{\circ}$ W., 113
lks. dist., marked T 16 S R 6 E S 1 B T.

Land; level.

Soil; sandy, 1st rate.

Timber; mesquite and palo verde.

Undergrowth; catclaw, cactus and greasewood.

N. $0^{\circ} 10'$ E., on true line, bet. secs. 1 and 6 (S. $\frac{1}{2}$).
Over-level land, thru scattering timber and undergrowth.

40.15 Intersect the orig. $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which
is a granite stone 8 x 4 x 8 ins. above ground, firm-
ly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by one
properly marked bearing tree:

Mesquite, 6 ins. in diam., N. $6\frac{1}{4}^{\circ}$ E., 120 lks.
dist.

Can find no trace of the orig. mesquite bearing tree N.
 30° W., 223 lks. dist.

This cor. monument being insufficiently witnessed, pro-
vide an additional bearing tree as follows:

A mesquite, 6 ins. in diam., N. $35\frac{1}{2}^{\circ}$ W., 176
lks. dist., marked $\frac{1}{4}$ S 1 B T.

Thence

N. $0^{\circ} 34'$ E., on true line, bet. secs. 1 and 6 (N. $\frac{1}{2}$).

43.28 Intersect the original closing cor. of T. 16 S., Rs.
6 and 7 E., on the 3rd Standard Parallel South, re-
constructed by W. H. Thorn, U. S. C. E., in May, 1924,
which is an iron post 3 ins. in diam., projecting 12
ins. above ground, firmly set alongside the original
monument, which is a granite stone 5 x 6 x 12 ins.
above ground, marked with 6 grooves on each of E.,
W. and S. faces and C C on S. face.

The brass cap on the iron post is marked

C	C
S 1	S 6
R 6 E	R 7 E
T 16 S	
1924	

and witnessed by the original bearing trees as fol-
lows:

Resurvey of part (N. $\frac{1}{2}$) of East Boundary of
Township 16 South, Range 6 East.

Chains

A mesquite, 6 ins. in diam., S. 81° E., 116 lks.
dist.

A mesquite, 10 ins. in diam., N. 8° E., 35 lks.
dist., and

A mesquite, 10 ins. in diam., N. 16° W., 120
lks. dist.

Each of these trees bear the original marking.

Land; level.

Soil; sandy, 1st rate.

Timber; mesquite.

Undergrowth; greasewood.

Survey of part of the Subdivision Lines of
Township 16, South, Range 6 East.

Chains None of the subdivision lines of this township have been previously surveyed.

The following notes describe the survey of the east four miles of the third latitudinal sec. line, and the north half of the fourth meridional sec. line, of T. 16 S., R. 6 E.

The sec. lines surveyed form part of the boundary of the Papago Indian Reservation, the land on the south of the latitudinal sec. line, and on the west of the meridional sec. line, being within the reservation.

From the orig. cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the T., hereinbefore described.

West, on true line, bet. secs. 13 and 24.

Over level land, thru scattering timber and undergrowth, nearly parallel to wire fence N. of line.

32.70 Wash, 20 lks. wide, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., of secs. 13 and 24, with brass cap marked.

$\frac{1}{4}$ $\frac{S\ 13}{S\ 24}$
 1924

From which

A mesquite, 5 ins. in diam., brs. N. $52\frac{1}{2}^\circ$ W., 99 lks. dist., marked $\frac{1}{4}$ S 13 B T.

A palo verde, 8 ins. in diam., brs. S. 67° W., 310 lks. dist., marked $\frac{1}{4}$ S 24 B T.

At 30 lks. N. of this cor. wire fence brs. E. and W. Continue over level land, thru scattering timber and undergrowth, nearly parallel to wire fence N. of line.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, with brass cap marked

T 16 S R 6 E
 $\frac{S\ 14}{S\ 23}$ | $\frac{S\ 13}{S\ 24}$
 1924

From which

A mesquite, 6 ins. in diam., brs. N. $71\frac{1}{2}^\circ$ E., 48 lks. dist., marked T 16 S R 6 E S 13 B T.

A mesquite, 12 ins. in diam., brs. S. $15\frac{3}{4}^\circ$ E., 200 lks. dist., marked T 16 S R 6 E S 24 B T.

A mesquite, 10 ins. in diam., brs. S. $22\frac{3}{4}^\circ$ W., 397 lks. dist., marked T 16 S R 6 E S 23 B T.

A mesquite, 10 ins. in diam., brs. N. $76\frac{1}{2}^\circ$ W., 70 lks. dist., marked T 16 S R 6 E S 14 B T.

At 60 lks. N. of this cor. wire fence brs. E. and W. Land; level.

Soil; sandy loam, 1st rate.

Timber; mesquite and palo verde.

Undergrowth; greasewood, catclaw and cactus.

West, on a true line, bet. secs. 14 and 23.

Over level land, thru scattering timber and undergrowth, nearly parallel to wire fence N. of line.

7.90 Wash, 50 lks. wide, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with a stone marked with a cross (X) deposited at base of post, for $\frac{1}{4}$ sec. cor. of secs. 14 and 23, with brass cap marked

Survey of part of the Subdivision Lines of
Township 16. South, Range 6 East.

Chains

$$\frac{1}{4} \frac{S 14}{S 23}$$

1924

From which

A mesquite, 6 ins. in diam., brs. S. $30\frac{1}{4}^{\circ}$ W., 324 lks.
dist., marked $\frac{1}{4}$ S 23 B T.

No other bearing trees available.

At 55 lks. N. of this cor. wire fence brs. E. and W.

Continue over level land, thru scattering timber and undergrowth, nearly parallel to wire fence N. of line.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins.
in the ground for cor. of secs. 14, 15, 22 and 23,
with brass cap marked

$$\begin{array}{c} T 16 S R 6 E \\ S 15 | S 14 \\ S 22 | S 23 \\ 1924 \end{array}$$

From which

A mesquite, 5 ins. in diam., brs. N. $80\frac{1}{4}^{\circ}$ E., 108
lks. dist., marked T 16 S R 6 E S 14 B T.

Mesquite, 5 ins. in diam., brs. S. $37\frac{1}{2}^{\circ}$ E., 405 lks.
dist., marked T 16 S R 6 E S 23 B T.

Mesquite, 6 ins. in diam., brs. S. $56\frac{1}{2}^{\circ}$ W., 126 lks.
dist., marked T 16 S R 6 E S 22 B T.

Mesquite, 4 ins. in diam., brs. N. 78° W., 43 lks.
dist., marked B T.

At 55 lks. N. of this cor., wire fence brs. E. and W.
Land; level.

Soil; sandy, 1st rate.

Timber; mesquite and palo verde.

Undergrowth; greasewood, catclaw and cactus.

West, on a true line, bet. secs. 15 and 22.

Over level land, thru scattering timber and undergrowth,
nearly parallel to wire fence N. of line.

7.00 Fence cor. brs. N. 55 lks. dist., from which fence ex-
tends N. and E. No fence N. of line beyond this point.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. of secs. 15 and 22,
with brass cap marked

$$\frac{1}{4} \frac{S 15}{S 22}$$

1924

From which

Mesquite, 6 ins. in diam., brs. N. $45\frac{1}{4}^{\circ}$ W., 139 lks.
dist., marked $\frac{1}{4}$ S 15 B T.

Mesquite, 6 ins. in diam., brs. S. 70° W., 54 lks.
dist., marked $\frac{1}{4}$ S 22 B T.

Continue over level land, thru scattering timber and undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins.
in the ground for cor. of secs. 15, 16, 21 and 22,
with brass cap marked

$$\begin{array}{c} T 16 S R 6 E \\ S 16 | S 15 \\ S 21 | S 22 \\ 1924 \end{array}$$

From which

Mesquite, 4 ins. in diam., brs. N. $50\frac{3}{4}^{\circ}$ E., 281 lks.
dist., marked B T.

Mesquite, 6 ins. in diam., brs. S. 50° E., 200 lks.
dist., marked T 16 S R 6 E S 22 B T.

Survey of part of the Subdivision Lines of
Township 16 South, Range 6 East.

Chains

Mesquite, 6 ins. in diam., brs. S. 51 $\frac{1}{2}$ ° W., 357 lks.
dist., marked T 16 S R 6 E S 21 B T.
Mesquite, 4 ins. in diam., brs. N. 19 $\frac{1}{2}$ ° W., 138 lks.
dist., marked B T.

Land; level.

Soil; sandy loam, 1st rate.

Timber; mesquite and palo verde.

Undergrowth; greasewood, catclaw and cactus.

West, on a true line, bet. secs. 16 and 21.

Over level land, thru scattering timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. of secs. 16 and 21,
with brass cap marked

$\frac{1}{4}$ $\frac{S\ 16}{S\ 21}$
1924

From which

Mesquite, 6 ins. in diam., brs. N. 38 $\frac{1}{4}$ ° W., 171 lks.
dist., marked $\frac{1}{4}$ S 16 B T.

Mesquite, 6 ins. in diam., brs. S. 32 $\frac{1}{2}$ ° E., 140 lks.
dist., marked $\frac{1}{4}$ S 21 B T.

Thence over nearly level land, sloping slightly to the
NE., thru scattering timber and undergrowth.

61.00 Wash, 25 lks. wide, course NE.

80.00 Old road, brs. NW. and SE.

Set an iron post 3 ft. long, 2 ins. in diam., 26 ins. in
the ground for cor. of secs. 16, 17, 20 and 21, with
brass cap marked

T 16 S R 6 E
 $\frac{S\ 17}{S\ 20}$ | $\frac{S\ 16}{S\ 21}$
1924

From which

Mesquite, 4 ins. in diam., brs. N. 70° E., 115 lks.
dist. marked B T.

Palo verde, 6 ins. in diam., brs. S. 9 $\frac{1}{2}$ ° E., 72 lks.
dist., marked T 16 S R 6 E S 21 B T.

Mesquite, 4 ins. in diam., brs. S. 51 $\frac{1}{4}$ ° W., 167 lks.
dist., marked B T.

Palo verde, 6 ins. in diam., brs. N. 5 $\frac{1}{2}$ ° W., 44 lks.
dist., marked T 16 S R 6 E S 17 B T.

This cor. is a point in the bdy. of the Papago Indian
Reservation from which said bdy. extends E. and N.
identical with the sec. lines.

Land; level and nearly level.

Soil; sandy loam, 1st rate.

Timber; mesquite and palo verde.

Undergrowth; greasewood, catclaw and cactus.

N. 0° 2' W., on a true line, bet. secs. 16 and 17.

Over nearly level land, sloping slightly to the NE.,
thru scattering timber and undergrowth.

30.36 Road bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. of secs. 16 and 17, with
brass cap marked

Survey of part of the Subdivision Lines of
Township 16 South, Range 6 East.

Chains

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 17 \quad | \quad \text{S } 16 \\ 1924 \end{array}$$

From which

- Mesquite, 4 ins. in diam., brs. S. $77\frac{3}{4}^{\circ}$ E., 187 lks.
dist., marked $\frac{1}{4}$ S 16 B T.
Mesquite, 4 ins. in diam., brs. N. $66\frac{1}{2}^{\circ}$ W., 212 lks.
dist., marked $\frac{1}{4}$ S 17 B T.
- 50.08 Wash, 30 lks. wide, course NE.
56.00 Wash, 30 lks. wide, course E.
63.10 Wash, 20 lks. wide, course E.
79.35 Wash, 50 lks. wide, course SE.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins.
in the ground for cor. of secs. 8, 9, 16 and 17, with
brass cap marked

$$\begin{array}{c} \text{T } 16 \quad \text{S} \quad \text{R } 6 \quad \text{E} \\ \text{S } 8 \quad | \quad \text{S } 9 \\ \text{S } 17 \quad | \quad \text{S } 16 \\ 1924 \end{array}$$

From which

- Mesquite, 8 ins. in diam., brs. N. 30° E., 112 lks.
dist., marked T 16 S R 6 E S 9 B T.
Mesquite, 6 ins. in diam., brs. S. $70\frac{1}{2}^{\circ}$ E., 79 lks.
dist., marked T 16 S R 6 E S 16 B T.
Mesquite, 6 ins. in diam., brs. S. $31\frac{3}{4}^{\circ}$ W., 80 lks.
dist., marked T 16 S R 6 E S 17 B T.
Mesquite, 8 ins. in diam., brs. N. $17\frac{1}{2}^{\circ}$ W., 127 lks.
dist., marked T 16 S R 6 E S 8 B T.
- Land; nearly level.
Soil; gravelly, 2nd rate.
Timber; mesquite and palo verde.
Undergrowth; greasewood, catclaw and cactus.

N. 0° 2' W., on a true line, bet. secs. 8 and 9.
Over gently rolling land, sloping SE., thru scattering
timber and undergrowth.

- 3.60 Wash, 20 lks. wide, course SE.
16.00 Fence cor. brs. E. about 15 chs. dist., from which
wire fences extend E. and N.
29.75 Wash, 10 lks. wide, course SE.
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 secs. 8 and 9, with brass
cap marked

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 8 \quad | \quad \text{S } 9 \\ 1924 \end{array}$$

From which

- Mesquite, 4 ins. in diam., brs. N. $43\frac{1}{4}^{\circ}$ E., 95 lks.
dist., marked $\frac{1}{4}$ S 9 B T.
Mesquite, 4 ins. in diam., brs. N. $72\frac{1}{2}^{\circ}$ W., 23 lks.
dist., marked $\frac{1}{4}$ S 8 B T.
- 40.60 Wash, 10 lks. wide, course E.
54.10 Wash, 10 lks. wide, course E.
64.55 Wash, 10 lks. wide, course SE.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins.
in the ground to bed rock, supported in a mound of
stone for cor. of secs. 4, 5, 8 and 9, with brass
cap marked

Survey of part of the Subdivision Lines of
Township 16 South, Range 6 East.

T 16 S R 6 E
S 5 | S 4
S 8 | S 9
1924

No bearing trees available. Raise a md. of stone 3 ft.
base 2 ft. high, W. of cor.

Land; gently rolling.

Soil; gravelly, 2nd rate.

Timber; palo verde and mesquite.

Undergrowth; greasewood, catclaw, ocotillo and cactus.

N. 0° 2' W., on a true line, bet. secs. 4 and 5.
Over gently rolling land, thru scattering timber and
undergrowth.

23.14 Wash, 30 lks. wide, course SE.

38.14 Wash, 30 lks. wide, course E.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. of secs. 4 and 5, with
brass cap marked

S 5 | S 4
1924

From which

Mesquite, 5 ins. in diam., brs. N. 39 $\frac{1}{2}$ ° E., 100 lks.
dist., marked $\frac{1}{2}$ S 4 B T.

Ironwood, 15 ins. in diam., brs. N. 45 $\frac{1}{2}$ ° W., 71 lks.
dist., marked $\frac{1}{4}$ S 5 B T.

51.10 Wash, 20 lks. wide, course E.

62.00 Wash, 30 lks. wide, course E.

66.80 Wash, 30 lks. wide, course SE.

84.39 Intersect the 3rd Standard Parallel South at a point
15.93 chs. S. 89° 59' W., from the standard cor. of
secs. 32 and 33, T. 15 S., R. 6 E., reestablished by
William H. Thorn, U. S. C. E., in May, 1924, under
instructions for current Group No. 99, which is an
iron post, 2 ins. in diam., projecting 12 ins. above
ground, firmly set, properly marked on brass cap and
witnessed by a md. of stone N. of cor. No bearing
trees.

At point of intersection set an iron post, 3 ft. long, 2
ins. in diam., 18 ins. in the ground to bed rock sup-
ported in a mound of stone for closing cor. of secs.
4 and 5, with brass cap marked

T 15 S R 6 E
S 32
S 5 | S 4
C | C
T 16 S R 6 E
1924

From which

Mesquite 12 ins. in diam., brs. S. 34 $\frac{1}{2}$ ° W., 114 lks.
dist., marked T 16 S R 6 E S 5 C C B T.

Mesquite, 12 ins. in diam., brs. S. 17 $\frac{1}{4}$ ° E., 137 lks.
dist., marked T 16 S R 6 E S 4 C C B T.

Land; gently rolling.

Soil; gravelly, 2nd rate.

Timber; scattering mesquite and palo verde.

Undergrowth; greasewood, catclaw, ocotillo and cactus.

Boundaries of that part of T. 16 S., R. 6 E., situated outside the Papago Indian Reservation. Latitudes, departures and closing errors.						
Line designated	True course	Dist- ance	Latitudes		Departures	
			N.	S.	E.	W.
Subdivisional Boundary.	West N. 0° 2' W.	320.00 244.39	244.39			320.00 .21
North Boundary (3rd Std. Par. S)	N. 89° 59' E.	321.10	.09		321.10	
East Boundary	S. 0° 34' W.	43.28		43.28		.43
	S. 0° 10' W.	40.15		40.15		.12
	S. 0° 13' W.	40.11		40.11		.15
	S. 0° 15' W.	40.11		40.11		.17
	S. 0° 14' W.	80.53		80.53		.32
Convergency					.15	
Totals			244.48	244.18	321.25	321.40
			244.18			321.25
Error in latitude			0.30			
Error in departure					0.15	

GENERAL DESCRIPTION.

The NE. portion of the Township inclosed by the lines described in the foregoing notes is level and gently rolling. The soil is a sandy loam, 1st rate, and gravelly, 2nd rate. Timber, mesquite and palo verde of poor quality, not much more than brush. Undergrowth; greasewood, catclaw, ocotillo, and cactus. Very little grass. There is a large reservoir located in approximately the $SE\frac{1}{4}$ of Sec. 10, that furnishes water for stock most of the year and is owned by the Santa Rosa Cattle Co. There are no settlers.

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

CERTIFICATE OF UNITED STATES TRANSITMAN.

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

and Surveyed all those parts or portions of the Subdivision lines of TOWNSHIP 16 SOUTH, RANGE 6 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 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 resurveys and surveys.

Place: Phoenix, Arizona Date: October 28, 1925 Charles E. Hunter U. S. Transitman.

APPROVAL.

OFFICE OF UNITED STATES SUPERVISOR OF SURVEYS,

Denver, Colorado, November 25, 1925

The foregoing field notes of the resurvey of the North half of the East boundary, and of the Survey of Part of the Subdivision lines of TOWNSHIP 16 SOUTH, RANGE 6 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Charles E. Hunter, U. S. Transitman, under his special instructions dated September 25, 1915, for Group 100, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

U. S. Supervisor of Surveys.

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