

3547

Book "G"
4-679

BOOK 3547

MAR 24 1923
MAR 28 1923

FIELD NOTES

OF THE SURVEY OF THE

Part of the Subdivision Lines of

TOWNSHIP 27 NORTH, RANGE 11 WEST,

(Within the Hualpai Indian Reservation)

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

Thomas D. Daley, U. S. Surveyor,

and

Horace W. Muscott, U. S. Transitman,

In the capacity of U. S. Surveyors, under Special Instructions dated February 26, 1920, issued by the United States Surveyor General to govern surveys included in Group No. 108, which were approved by the Commissioner of the General Land Office, March 10, 1920, and Assignment Instructions dated April 6, 1921

Survey commenced April 19, 1921

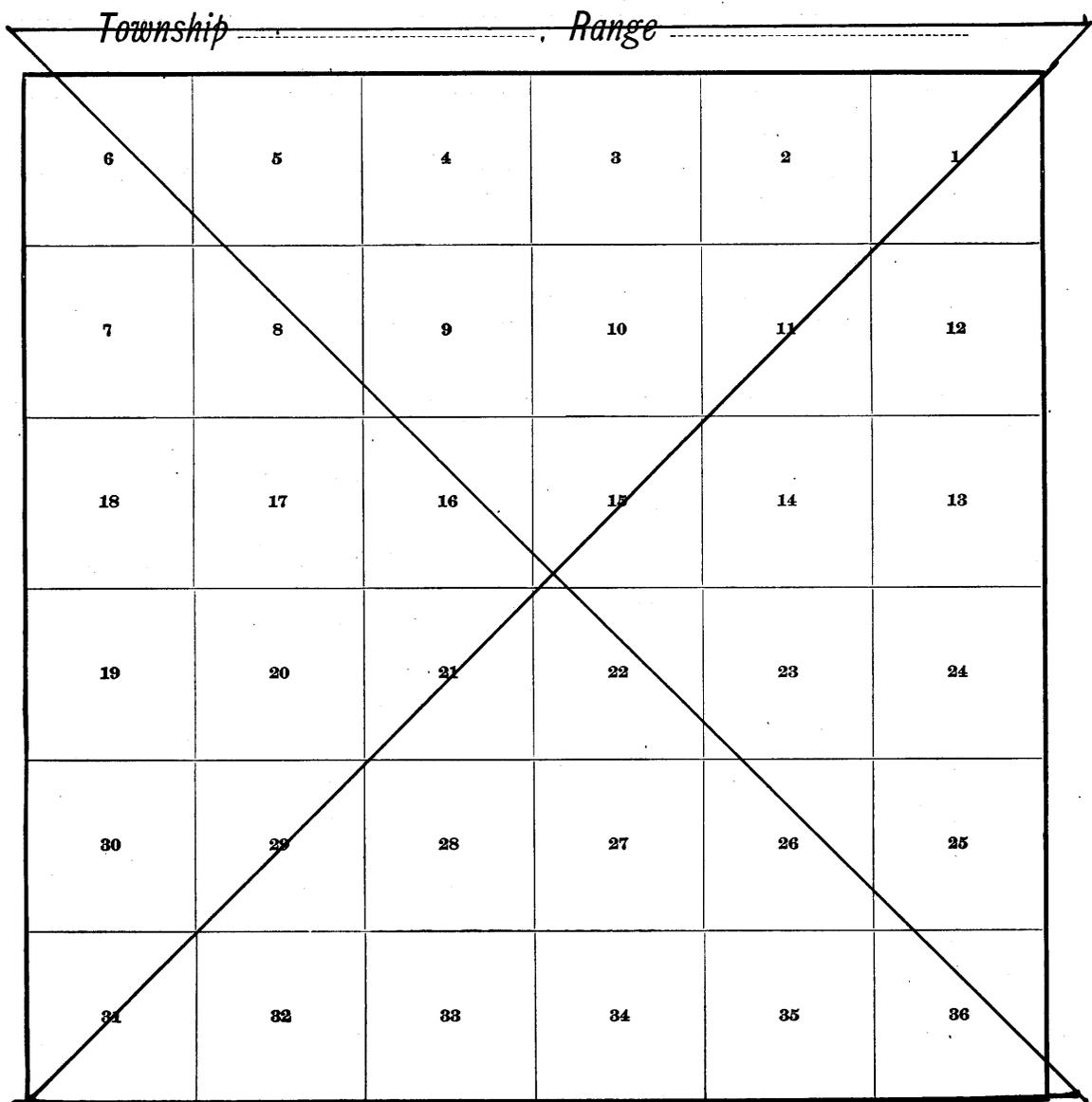
Survey completed June 2, 1921

3547

3547

1A

INDEX DIAGRAM.



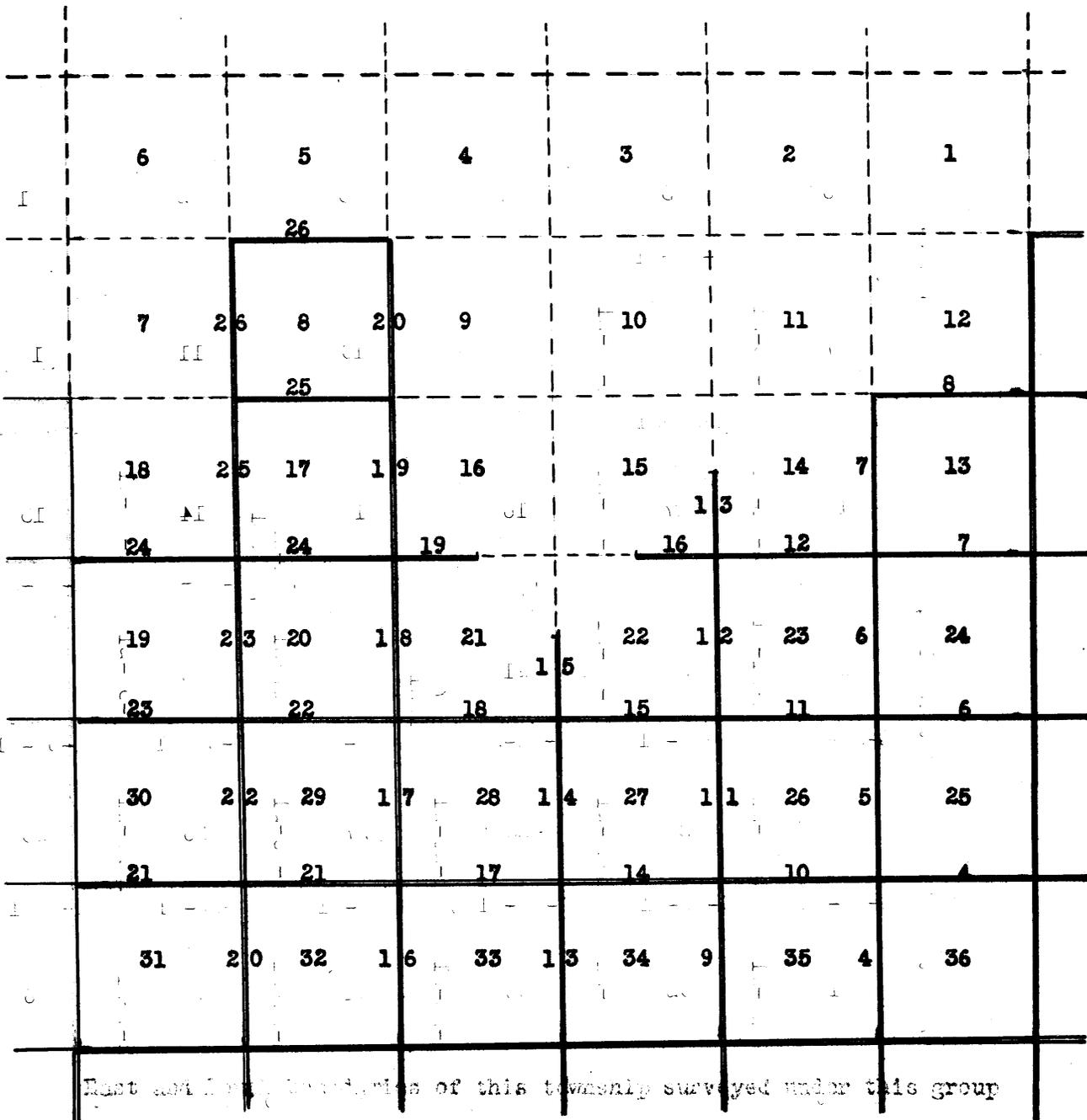
Book "G"

BOOK 3547

Group 108 - Arizona,

Township 27 North, Range 11 West.

INDEX DIAGRAM.



East and West boundaries of this township surveyed under this group
West boundary of this township surveyed under Group 109.

- ==== Lines surveyed under this group.
- _____ Lines surveyed under Group 109.
- Unsurreyed.

BOOK 3547

Book "G."

Group 108 - Arizona.

Township 27 North, Range 11 West.

DATE DIAGRAM.

	6	5	4	3	2	1
		4-28-21				
	7	8	9	10	11	12
	4-22-21	4-21-21	4-28-21			4-30-21
	18	17	16	15	14	13
	4-21-21	4-21-21	4-27-1921	4-27-1921	4-29-21	4-30-21
	19	20	21	22	23	24
	4-20-21	4-20-21	4-26-21	4-26-21	4-29-21	4-30-21
	30	29	28	27	26	25
	4-19-21	4-19-21	4-22-21	4-25-21	4-25-21	5-9-21
	31	32	33	34	35	36
	4-19-21	4-19-21	4-22-21	4-25-21	5-7-21	

For dates of survey of this line, see Book "F" Group No. 109.

For dates of survey of this line, see Book "H" of this group.

For dates of survey of this line, see Book "F" of this group.

— Green lines on above diagram indicate surveys executed by Thomas D. Daley, U. S. Surveyor, on dates shown thereon.

— Red lines on above diagram indicate surveys executed by Morace M. Muscott, U. S. Transitman, on dates shown thereon.

BOOK 0047

Survey commenced Apr. 19, 1921 and executed with Buff Rocky Mountain Favorite transit No. 9977 and Young and Sons Light Mountain transit No. 8489, respectively. Both instruments are equipped with full vertical circles and the Smith solar attachment; unless otherwise specified, all azimuth determinations are accomplished with the solar attachments.

FIELD TESTS OF INSTRUMENTS NOS. 9977 and 8489.

April 18, 1921: we examine the adjustments of the instruments and correct all errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a. m. and p. m. hours, with a meridian determined by Polaris observation, proceed as follows:

At camp near the cor. of secs. 5, 6, 31 and 32, on S. bdy. of T. 27 N., R. 11 W., G. & S. R. B. & M., Arizona in latitude $35^{\circ} 40' N.$, longitude $113^{\circ} 29' W.$, at 5 h. 42 m., p. m., 1. m. t., we observe Polaris at western elongation, making four observations, two each with telescope in direct and reversed positions and mark a point in the line thus determined on a peg driven firmly in the ground 5 chains N.

Azimuth of Polaris at western elongation = $1^{\circ} 22' 29''$

April 19, 1921: At 7 h. 00 m., a. m., 1. m. t., we lay off the azimuth of Polaris $1^{\circ} 22\frac{1}{2}'$ 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. 00 m., a. m., 1. m. t., we set off $35^{\circ} 40' N.$ on the lat. arcs, $11^{\circ} 9' N.$ on the decl. arcs., and determine a meridian with each solar, which agrees with the true meridian.

At app. noon with the lat. arcs unchanged we observe the sun on the meridian; the resulting reading of each decl. arc is $11^{\circ} 11\frac{1}{2}' N.$, which agrees with the computed declination of the sun.

At 4 h. 00 m., p. m., 1. m. t., with the latitude arcs unchanged we set off $11^{\circ} 15\frac{1}{2}' N.$ on the declination arcs and determine a meridian with each solar, which agrees with the true meridian.

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

Unless otherwise specified all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

Survey of part of Subdivision of T. 27 N., R. 11 W.

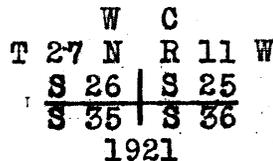
Chains From the cor. of secs. 1, 2, 35 and 36 on S. bdy. of Tp., described in Book "E".
 N. 0° 01' W., bet. secs. 35 and 36.
 Over mountainous land, along W. slope.
 11.40 Short spur, slopes N. 60° W. Desc. 360 ft. over NW. slope
 21.42 Gulch, 50 lks. wide, course NW.
 26.50 SE. edge of Peach Spring Canyon, bears N. 30° E.
 37.50 Old road, brs. NE. and SW. on NW. side of canyon.
 Asc. over SE. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



44.84 Foot of cliffs, 100 ft. high, bears N. 60° E., and S. 60° W. Thence by traverse around cliffs as follows:

N. 63 $\frac{1}{2}$ ° E., 1.85 chs.
 North " 7.26 "
 West 1.66 " to point on line at

52.93 Thence N. 0° 01' W.
 56.00 Wash, 30 lks. wide, course N. 60° E. Asc. 250 ft. to
 66.09 Top of cliff, 80 ft. high, bears N. 60° E., and S. 60° W. Asc. 170 ft. to
 71.50 Foot of cliff, 600 ft. high, brs. N. 60° E., and S. 60° W.
 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post for witness cor. to cor. of secs. 25, 26, 35 and 36, marked on brass cap



80.00 The true point for cor of secs. 25, 26, 35 and 36, is inaccessible.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; none.
 Undergrowth; black brush, cat claw and cactus.

N. 89° 58' E., on a random line, bet. secs. 25 and 36. Impossible to measure from true point for cor.
 Run traverse from witness cor. as follows:
 N. 89° 58' E., 5.00 chs.
 N. 45° E., 4.94 "
 N. 0° 01' W., 5.00 "
 to point on random line, 8.49 chs. N. 89° 58' E. of true point for cor. of secs. 25, 26, 35 and 36.
 Thence, N. 89° 58' E., on random line bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Fall 12 lks. N. of the cor. of secs. 25, 30, 31 and 36 on E. bdy. of Tp., described in Book "H".
 Thence N. 89° 57' W., on a true line bet. secs. 25 and 36. Over mountainous land, thru scattering undergrowth.
 1.00 Gulch, course NW. Asc. 50 ft. over NE. slope to
 2.90 Small spur slopes NW., desc. 195 ft. over SW. slope to

3547

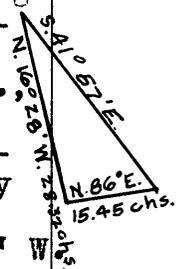
Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains
 12.40 Gulch, 20 lks. wide, 20 ft. deep, course NW. Continue descent 630 ft. to
 39.95 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post for 1/4 sec. cor. marked on brass cap

1/4 S 25
S 36

41.40 Desc. 50 ft. to Foot of descent, bears N. 30° E., and S. 30° W. Thence over flat in bottom of Peach Springs Canyon.
 56.00 W. edge of canyon bottom bears N. 30° E., and S. 30° W. Asc. 490 ft. over SE. slope to
 71.41 Foot of cliffs, 600 ft. high, bears NE. and SW. Thence by traverse as follows:
 S. 0° 01' E., 5.00 chs.
 S. 45° W., 4.94 "
 N. 89° 57' W., 5.00 "
 79.90 The witness cor. to cor. of secs. 25, 26, 35 and 36. Land; mountainous. Soil; rocky, 4th rate. Timber; none. Undergrowth; black brush, cat claw and cactus.

It being impossible on account of cliffs to run true line N. 0° 01' W., bet. secs. 25 and 26, determine the distance by triangulation on traverse, and offset as follows:
 From the 52.93 chain point bet. secs. 35 and 36, a flag "A" ahead on traverse bears N. 16° 28' W., the vertical angle is +36 1/4°.
 From the 52.93 ch. point auxiliary flag brs. N. 86° E. 15.45 chs. dist.; from flag "A", ahead, auxiliary flag brs. S. 41° 57' E., all bearings checked by direct reading of the solar, and all angles checked by deflection.
 Dist. by triangulation = 28.32 chs. bearing N. 16° 28' W. Point "A" is therefore 0.09 chs. North and 8.02 chs. west of the true point for cor. of secs. 25, 26, 35 and 36.



Thence from flag "A" West, 9.84 chs., dist. by chaining,
 Thence N. 0° 01' W., 26.97 chs.,
 Thence, East, 17.86 chs., to point on true line at
 27.06 Thence N. 0° 01' W., bet. secs. 26 and 25, counting measurement from true point for cor. of secs. 25, 26, 35 and 36, over mountainous land, thru dense undergrowth.
 30.00 Spur, slopes S. 20° W., along W. slope.
 37.00 Wash, 15 lks. wide; course S. 20° W., asc. 40 ft. to
 40.00 ~~Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, mark cross (X) at exact cor. point supported in a mound of stone, and over same, set an iron post, 3 ft. long, 1 in. in diam., on bed rock supported in a mound of stone for 1/4 sec. cor., marked on brass cap~~

1/4
 S 26 | S 25
 1921

48.00 Asc. 120 ft. over SW. slope to Spur, slopes SE. Desc. 105 ft. over NE. slope to
 57.80 Wash, 15 lks. wide, course SE., asc. 75 ft.
 67.80 Spur, slopes SE.
 Along E. slope, ascending 55 ft. to
 78.70 Spur, slopes E., slight desc. to cor.

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains
80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked on brass cap

T 27 N R 11 W
S 23 | S 24
S 26 | S 25
1921

Raise a mound of stone, $3\frac{1}{2}$ ft. base, 2 ft. high W. of cor. Land; rough mountains.

Soil; rocky, 4th rate.

Timber; juniper and palo-christi.

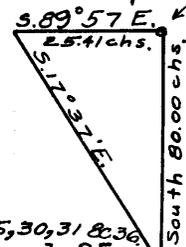
Undergrowth; black brush, Indian tea, scrub oak, cactus, yucca and catclaw.

40.00
54.45

S. $89^{\circ} 57'$ E., on a random line, bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor.

Rim rock bears NE. and SW. The cor. of secs. 19, 24, 25 and 30, brs. S. $89^{\circ} 57'$ E.; vertical angle, -46° ; the cor. of secs. 25, 30, 31 and 36, brs. S. $17^{\circ} 37'$ E.; all bearings checked by direct reading of the solar and all angles checked by deflection. cor. secs. 19, 24, 25 & 30.

Dist. by triangulation
= 25.41 chs.
Dist. on random 54.45 "
Total dist 79.86 "



Intersect the cor. of secs. 19, 24, 25 and 30, on the East bdy. of Tp. described in Book "H"

Thence

N. $89^{\circ} 57'$ W., on a true line bet. secs. 24 and 25. Over mountainous land, thru dense undergrowth, dist. by triangulation.

25.41

Rim rock on W. edge of Peach Springs Canyon, about 1200 ft. above cor. Asc. 120 ft., dist. by chaining.

31.15

Spur, slopes S. Desc. 40 ft. to

39.93

Mark cross (X) at exact cor. point, and over same set an iron post, 3 ft. long, 1 in. in diam., on solid rock supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 24
S 25
1921

42.45

Wash, 50 lks. wide, course S. Asc. 275 ft. over SE. slope to

56.85

Spur, slopes S. Desc. 230 ft. over SW. slope to

76.85

Wash, 20 lks. wide, course S. Asc. 30 ft. to

79.86

The cor. of secs. 23, 24, 25 and 26.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; juniper and palo christi.

Undergrowth; black brush, yucca, catclaw, cactus, Indian tea and scrub oak.

N. $0^{\circ} 01'$ W., bet. secs. 23 and 24.

Over mountainous land, thru scattering timber and dense undergrowth.

.15

Wash, 10 lks. wide, course E.

2.00

Spur, slopes E.

6.00

Drain, course SE. Asc. 200 ft. over SE. slope to

17.90

Spur, slopes SW. Desc. 85 ft. to

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains

23.30

38.00

40.00

Wash, 15 lks. wide, course SW., asc. 180 ft. to

Spur, slopes SW., along W. slope.

Mark a cross (X) on solid rock, at exact cor. point, and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 23 \quad | \quad \text{S } 24 \\ \hline 1921 \end{array}$$

55.60

60.60

80.00

Desc. 90 ft. to

Wash, 20 lks. wide, course W., asc. slightly

Thence over level mesa.

Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins.

in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for cor. of secs. 13, 14, 23 and 24, marked on brass cap

$$\begin{array}{c} \text{T } 27 \text{ N } \quad \text{R } 11 \text{ W} \\ \hline \text{S } 14 \quad | \quad \text{S } 13 \\ \hline \text{S } 23 \quad | \quad \text{S } 24 \\ \hline 1921 \end{array}$$

Land; mountainous.

Soil; rocky, 4th rate.

Timber; palo christi and juniper.

Undergrowth; black brush, cactus, yucca, catclaw, Indian tea and scrub oak.

40.00

79.90

S. 89° 57' E., on a random line bet. secs. 13 and 24.

Set temp. ¼ sec. cor.

Fall 8 lks. S. of the true point for cor. of secs. 13, 18, 19 and 24 on E. bdy. of Tp., witnessed by cor.

0.10 chs. South as described in Book "H".

From true point for cor. of secs. 13, 18, 19 and 24,

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

Over mountainous land, thru scattering timber and dense undergrowth.

2.40

6.80

9.80

15.50

39.40

39.95

Spur, slopes N.

Spur, slopes NE.

Wash, 20 lks. wide, course NE. Asc. 200 ft. to

Spur, slopes NE., slight descent.

Wash, 25 lks. wide, course NE.

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4} \quad \text{S } 13 \\ \hline \text{S } 24 \\ \hline 1921 \end{array}$$

43.10

79.90

Asc. 65 ft. over E. slope to

Top of ascent. Thence over level mesa.

The cor. of secs. 13, 14, 23 and 24.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; scrub juniper and palo christi.

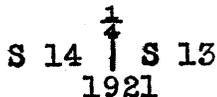
Undergrowth; black brush, cactus, yucca and catclaw.

N. 0° 01' W., bet. secs. 13 and 14.

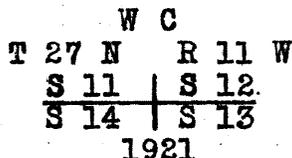
Over slightly rolling land, thru scattering timber and thick undergrowth.

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains
 8.40 Desc. 55 ft. to
 18.36 Foot of descent.
 29.00 Depression, drains W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap



60.00 Enter thick patch of juniper, desc. 55 ft. to
 64.00 Wash, 6 lks. wide, course NW., asc. 45 ft. to
 70.00 Leave juniper, desc. 30 ft. to
 75.50 S. rim of Colorado River Canyon, bears N. 60° E., and S. 60° W.
 Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for witness cor. to cor. of secs. 11, 12, 13 and 14, marked on brass cap



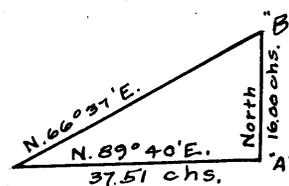
80.00 The true point for cor. of secs. 11, 12, 13 and 14 is inaccessible.
 Land; rolling mesa.
 Soil; 2nd rate.
 Timber; juniper.
 Undergrowth; black brush, Indian tea, scrub oak, cactus, yucca and catclaw.

East on a random line, bet. secs. 12 and 13.
 It being impossible to measure from the true point for cor. of secs. 11, 12, 13 and 14, run offset line as follows: *True pt. for cor. secs. 11, 12, 13 and 14* East 11.00 chs. East

From the witness cor. to cor. of secs. 11, 12, 13 and 14 East on random offset line thru sec. 13
 11.00 Thence N. 0° 1' W. 4.50 chs. to point on random line; thence East, on random line bet. secs. 12 and 13, counting measurement from true point for cor.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 65.52 Edge of precipitous cliffs, bears SE. and NW. Set flag for triangulation.

Flag "A" in canyon below cliffs, brs. N. 89° 40' E.; auxiliary flag "B", brs. N. 66° 37' E. From "A", "B" brs. North 16.00 chs. dist.; all bearings checked by direct reading of the solar, and all angles checked by deflection.



Dist. on random = 65.52 chs.
 Dist. by triangulation = 37.51 chs. on bearing
 Total dist. = 103.03 chs. (N. 89° 40' E)

From flag "A" run traverse as follows:

West, 16.37 chs.
 North, 4.00 "
 West, 6.58 "
 South .16 "

Intersect the witness cor. to cor. of secs. 7, 12, 13 and 18, established 4.00 chs. N. of the true point for cor. of secs. 7, 12, 13 and 18, as described in Book "H"

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains From a computation of this traverse, the course and length of the line joining the true point for cor. of secs. 7, 12, 13 and 18, with the true point for cor. of secs. 11, 12, 13 and 14 are found to be S. 89° 57' W., 80.08 chs.
 From the true point for cor. of secs. 7, 12, 13 and 18, on E. bdy. of Tp.,
 S. 89° 57' W., on a true line bet. secs. 12 and 13.
 Over mountainous land, thru scattering undergrowth, dist. by traverse and triangulation, as hereinbefore described.
 Asc. over precipitous cliffs.
 14.56 Top of cliffs, bears SE. and NW. Asc. 500 ft. over E. slope to
 32.80 Ridge, bears N. and S., extends about 10 chs. N. to break to River. Desc. 50 ft. over W. slope to
 38.68 Ravine, course N.
 40.04 Mark cross at exact cor. point, and over same, set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4 S 13
 S 13
 1921

Cor. is about 2 chs. south of south rim of Grand Canyon of Colorado River
 Asc. over gradual E. slope 60 ft. to
 50.00 Desc. 65 ft. to True pt. for cor. secs. 11, 12, 13 and 14
 69.08 Offsets S. 0° 11' 1/4 4.50 chs. S. 89° 57' W. 1100 chs
 Thence S. 89° 57' W., on offset line. Continue measurement.
 80.08 The witness cor. to the cor. of secs. 11, 12, 13 and 14. Land; mountainous. Soil; rocky, 4th rate. Timber; scattering juniper. Undergrowth; black brush, Indian tea, scrub oak, cactus, yucca and catclaw.

The south rim of the Grand Canyon of the Colorado River prevents any further subdivision of this range of sections.

From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp., described in Book "E".
 N. 0° 01' W., bet. secs. 34 and 35.
 Over mountainous land, thru scattering undergrowth.
 Asc. 100 ft. over S. slope to
 4.50 Spur, slopes S. 70° E., along E. slope.
 6.40 Ravine, course SE. Asc. 100 ft. over SW. slope to
 19.50 Spur, slopes N. 70° E. Desc. 390 ft. over N. slope to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap

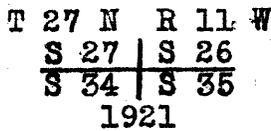
1/4
 S 34 | S 35
 1921

Desc. 280 ft. over N. slope to
 49.50 Canyon, 40 lks. wide, course E. Asc. 284 ft. to
 60.00 Spur, extends E. Desc. 165 ft. over N. slope to
 71.70 Small ravine, course E. Asc. 50 ft. over S. slope to
 78.00 Small spur, slopes E., slight descent to cor.

Survey of Part of Subdivision of T. 27 N., R. 11 W.

Chains
80.00

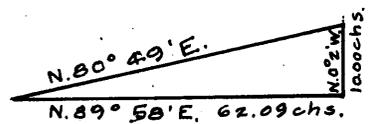
Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for cor. of secs. 26, 27, 34 and 35, marked on brass cap



Land; mountainous.
Soil; rocky, 2nd rate.
Timber; none.
Undergrowth; black brush, Indian tea, scrub oak, cactus, yucca and cat claw.

8.00 N. 89° 58' E., on a random line bet. secs. 26 and 35. Rim of canyon, bears SE. and NW. Impossible to chain from here

Vertical angle to flag ahead, +5°; auxiliary flag brs. N. 80° 49' E., from flag on random line, auxiliary flag brs. N. 0° 2' W., 10.00 chs. dist., all bearings checked by direct reading of the solar, and all angles checked by deflection.



Dist. by triangulation = 62.09 chs.
Return measure = 18.33 "
43.76 "

43.76

Set temp. witness cor. to 1/4 sec. cor.

62.09

Triangulation point. Thence N. 89° 58' E., on a random line bet. secs. 26 and 35, dist. by chaining.

71.92

Fall 5 lks. S. of flag at triangulation point, established as described in the field notes of the survey of the mile bet. secs. 25 and 26, 0.09 chs. N. and 8.02 chs. West of the true point for cor. of secs. 25, 26, 35 and 36. By computation, therefore, the total dist. and falling if random line was continued on original bearing would be

79.94

Intersect N. and S. line, 14 lks. N. of the true point for cor. of secs. 25, 26, 35 and 36, witnessed by cor. at 8.50 chs. S. 0° 1' E. as hereinbefore described.

From true point for cor. of secs. 25, 26, 35 and 36 (Inaccessible).

N. 89° 58' W., on a true line bet. secs. 26 and 35. Over inaccessible cliffs, thru scattering undergrowth, distance by triangulation, on traverse as hereinbefore described.

8.02

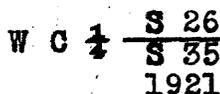
Top of cliffs, bears NE. and SW.

17.85

Asc. 90 ft. over E. slope to Spur, extends S. Desc. 477 ft. over W. slope, dist. by chaining.

36.18

Edge of canyon, bears SE. and NW. Mark a cross (X) on solid rock at exact witness cor. point, and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, for witness cor. to 1/4 sec. cor. marked on brass cap



Thence by triangulation, across canyon, course SE.

39.97

Tran point for base of cliff on precipitous, cliffs SE.

71.92

West edge of canyon, about 500 ft. deep, bears SE. and NW. Thence by chaining.

79.94

The cor. of secs. 26, 27, 34 and 35.

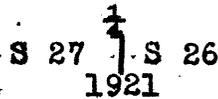
Survey of part of the Subdivisions of T. 27 N., R. 11 W.

Chains Land; mountainous.
Soil; rocky, 4th rate.
Timber; none.
Undergrowth; black brush, yucca, cactus and palo christi

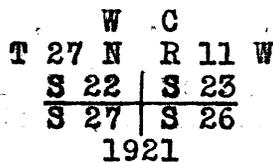
4.00 N. 0° 01' W., bet. secs. 26 and 27.
Over mountainous land, thru scattering undergrowth.
Desc. 80 ft. to
Rim of canyon, bears SE. and NW. Impossible to chain from here
From cor. of secs. 26, 27, 34 and 35, vertical angle to flag ahead, + 3½°; from same cor., auxiliary flag brs. N. 73° 25' W., 12.08 chs.; from flag ahead, auxiliary flag brs. S. 24° 57' W.; all bearings checked by direct reading of the solar, and all angles checked by deflection.



Dist. by triangulation = 28.31 chs.
8.00 (Approx. dist.) Canyon, near head about 200 ft. deep.
28.31 Triangulation point. Thence N. 0° 1' W., bet. secs. 26 and 27, dist. by chaining.
40.00 Thence along broken W. slope.
Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap



51.30 Desc. 127 ft. over NW. slope to Gulch, 50 lks. wide, course SW. Asc. 170 ft. over SE. slope to
73.30 Spur, slopes SW. Desc. 143 ft. to
79.21 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for witness cor. to cor. of secs. 22, 23, 26 and 27, marked on brass cap



80.00 The true point for cor. of secs. 22, 23, 26 and 27, falls in wash, 40 lks. wide, course S. 30° W., where it cannot be permanently established.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; none.
Undergrowth; black brush, yucca, cactus and palo christi.

40.00 From true point for cor. of secs. 22, 23, 26 and 27. S. 89° 56' E., on a random line bet. secs. 23 and 26. Set temp. ¼ sec. cor.
80.10 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 23, 24, 25 and 26.
Thence N. 89° 52' W., on a true line bet. secs. 23 and 26. Over mountainous land, thru scattering scrub timber and dense undergrowth.
6.50 Spur, slopes SE., along S. slope.
13.50 Ridge, bears NE. and SW., desc. 70 ft. to

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains

20.50 Wash, 5 lks. wide, course NW., along N. slope to
 26.20 Desc. 194 ft. to
 39.00 Wash, 5 lks. wide, course SW.
 40.05 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground to bed rock, deposit stone marked cross
 (X) at base of post and raise a mound of stone around
 post, for 1/4 sec. cor., marked on brass cap

1/4 S 23
 S 26
 1921

43.00 Spur, slopes S.
 47.60 Wash, 4 lks. wide, course SE. Asc. 177 ft. over E. slope
 56.00 Spur, slopes SE. Desc. 180 ft. over W. slope to
 63.80 Drain, course S., slight ascent to
 68.40 Spur, slopes S., desc. 130 ft. to
 80.10 The true point for cor. of secs. 22, 23, 26 and 27.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; palo christi and juniper.
 Undergrowth; black brush, cactus, catclaw, Indian tea,
 scrub oak and yucca.

From the true point for cor. of secs. 22, 23, 26 and 27.
 N. 0° 01' W., bet. secs. 22 and 23.
 Over mountainous land.

Asc. 420 ft. over broken SE. slope to
 34.00 Ridge, bears E. and W. Desc. slightly.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground to bed rock, deposit stone marked cross
 (X) at base of post, and raise a mound of stone
 around post for 1/4 sec. cor., marked on brass cap

1/4
 S 22 | S 23
 1921

40.20 Small ravine, course SW. over rolling SW. slope.
 62.00 Wash, course SW. Asc. 260 ft. over SE. slope to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on bed
 rock, deposit stone marked cross (X) at base of post,
 and raise a mound of stone around post, for cor. of
 secs. 14, 15, 22 and 23, marked on brass cap

T 27 N R 11 W
 S 15 | S 14
 S 22 | S 23
 1921

On SW. slope of broken rim rock.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; none.
 Undergrowth; black brush, yucca, cactus and palo christi.

S. 89° 52' E., on a random line bet. secs. 14 and 23.
 40.00 Set temp 1/4 sec. cor.
 80.10 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 13, 14, 23 and 24.

Thence
 S. 89° 55' W., on a true line bet. secs. 14 and 23.
 Over slightly rolling mesa, thru scattering undergrowth.
 40.05 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ $\frac{S\ 14}{S\ 23}$
 1921

58.00 Rim, desc. 140 ft. over W. slope to
 62.40 Wash, 8 lks. wide, course SW.
 Thence along S. edge of broken rim rock, over steep S. slope.

80.10 The cor. of secs. 14, 15, 22 and 23.
 Land; level and broken.
 Soil; 2nd and 4th rates.
 Timber; none.
 Undergrowth; black brush, yucca, cactus, and palo christi.

N. $0^{\circ} 01'$ W., bet. secs. 14 and 15.
 Over rolling mesa, thru scattering undergrowth.
 Asc. gradual S. slope to
 11.45 Ridge, bears E. and W. Desc. 123 ft. over N. slope to
 33.26 Edge of cliff, bears E. and W.
 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for witness cor. to the $\frac{1}{4}$ sec. cor. of secs. 14 and 15, marked on brass cap

W C
 $\frac{1}{4}$
 S 15 | S 14
 1921

On account of precipitous cliffs, forming S. rim of Grand Canyon of Colorado River, it is impossible to survey the remainder of this range of secs.
 Land; rolling mesa.
 Soil; 3rd rate.
 Timber; none.
 Undergrowth; black brush, yucca, cactus and palo christi.

From the cor. of secs. 3, 4, 33 and 34 on S. bdy. of Tp., described in Book "E".
 N. $0^{\circ} 02'$ W., bet. secs. 33 and 34.
 Over mountainous land, thru scattering timber and dense undergrowth.
 Desc. over N. slope.
 2.00 Wash, 50 lks. wide, course E. Asc. 350 ft. over S. slope
 17.30 Spur, slopes SE., desc. 50 ft. to
 24.02 Asc. 80 ft. to
 30.60 Spur, slopes E. Desc. 100 ft. over N. slope to
 38.71 Wash, 10 lks. wide, course SE.
 40.00 Mark a cross (X) on solid rock, at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 33 | S 34
 1921

49.20 Asc. 150 ft. over S. slope to
 57.20 Spur, slopes SE., desc. 550 ft. to sec. cor.
 66.80 Spur, slopes NE.
 79.10 Spur, slopes NW.
 Wash, 10 lks. wide, course N. 60° W.

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains
80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for cor. of secs. 27, 28, 33 and 34, marked on brass cap

T 27 N R 11 W
S 28 | S 27
S 33 | S 34
1921

Land; mountainous.
Soil; rocky, 4th rate.
Timber; juniper.
Undergrowth; black brush, Indian tea, yucca, cactus, Scrub oak and palo christi.

40.00
80.00

N. 89° 58' E., on a random line bet. secs. 27 and 34. Set temp. 1/2 sec. cor. Intersect N. and S. line, 5 lks. S. of the cor. of secs. 26, 27, 34 and 35.

Thence S. 89° 56' W., on a true line bet. secs. 27 and 34. Over mountainous land, thru dense undergrowth along N. slope.

8.50
12.00
27.80
33.80
36.80
40.00

Spur, slopes S. 70° E. Asc. 155 ft. over NE. slope to Spur, slopes W. Desc. 100 ft. over NW. slope to Wash, 15 lks. wide, course NE. Asc. 115 ft. to Rocky spur, slopes SE. Desc. 30 ft. to Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap

1/4 S 27
S 34
1921

Raise a mound of stone,

42.20
62.30
73.10
80.00

2 1/2 ft. base, 2 ft. high N. of cor. Wash, 15 lks. wide, course S. 60° E. Asc. 180 ft. over E. slope to

Spur, slopes N., along N. slope. Spur, slopes N. Desc. 120 ft. over W. slope to The cor. of secs. 27, 28, 33 and 34.

Land; mountainous.
Soil; rocky, 4th rate.
Timber; none.
Undergrowth; black brush, Indian tea, cactus, yucca, palo christi, cat claw, and scrub oak.

.50
9.68
15.80
32.00
40.00

N. 0° 02' W., bet. secs. 27 and 28. Over mountainous land, thru dense undergrowth. Spur, slopes W. Desc. 126 ft. over W. slope to Wash, 20 lks. wide, course NE. Along E. slope. Spur, slopes NE., asc. 100 ft. to Spur, slopes E., desc. 100 ft. to Mark a cross (X) on solid rock, at exact cor. point, and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, 3 ft. base, 2 ft. high for 1/4 sec. cor., marked on brass cap

1/4 S 28 | S 27
1921

BOOK 524

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains Desc. 80 ft. to
 43.90 Wash, 40 lks. wide, course E. Asc. 106 ft. over SE. slope to
 50.00 Spur, slopes SW. Asc. 390 ft. over SE. slope to
 66.40 Spur, slopes SW. Asc. 86 ft. to
 69.90 Spur, slopes SW., along W. slope.
 73.80 Spur, slopes SE., desc. 115 ft. to cor.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for cor. of secs. 21, 22, 27 and 28, marked on brass cap

T 27 N R 11 W
 S 21 | S 22
 S 28 | S 27
 1921

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; juniper.
 Undergrowth; black brush, Indian tea, palo christi, cactus, yucca and catclaw.

40.00 N. 89° 56' E., on a random line bet. secs. 22 and 27
 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. and S. line, 5 lks. S. of the cor. of Secs. 22, 23, 26 and 27.

Thence,
 S. 89° 54' W., on a true line bet. secs. 22 and 27
 Over broken land, thru low undergrowth.
 Along S. slope to
 26.10 Desc. 75 ft. to
 36.90 Gulch, 30 lks. wide, course S., asc. 60 ft. to
 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 22
 S 27
 1921

41.00 Small spur, slopes SE. Asc. 300 ft. to sec. cor.
 43.50 Gulch, 10 lks. wide, course SE.
 74.50 Wash, 20 lks. wide, course S. 80° E.
 80.02 The cor. of secs. 21, 22, 27 and 28.
 Land; broken.
 Soil; 3rd rate.
 Timber; none.
 Undergrowth; black brush, Indian tea, cactus, yucca, palo christi, and scrub oak.

N. 0° 02' W., bet. secs. 21 and 22.
 Over mountainous land, thru thick undergrowth.
 1.00 Wash, 15 lks. wide, course S. 60° E. Asc. 100 ft. over S. slope to
 5.00 Spur, slopes E., asc. 150 ft. to
 12.00 Spur, slopes SE., along E. slope to
 27.89 Asc. 80 ft. to
 31.20 Spur, slopes SE., along 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 stone marked cross (X) at base of post and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains

$$\begin{array}{c} \uparrow \\ \text{S } 21 \quad | \quad \text{S } 22 \\ 1921 \end{array}$$

At a point 25 chs. N. of $\frac{1}{4}$ sec. cor., intersect the S. rim of the grand Canyon of the Colorado River, which bears E. and W., I therefore terminate the survey of this line at this $\frac{1}{4}$ sec. cor.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; none.

Undergrowth; black brush, cactus, yucca, Indian tea, palo christi and cat claw.

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

S. $89^{\circ} 54'$ W., on a true line bet. secs. 15 and 22.

Over rolling hills, thru low desert brush.

Desc. 200 ft. over NW. slope to

16.20

Wash, 6 lks. wide, course SW., over rolling land.

40.00

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

$$\begin{array}{c} \frac{1}{4} \quad \text{S } 15 \\ \quad \quad | \quad \text{S } 22 \\ 1921 \end{array}$$

25 chs. W. of $\frac{1}{4}$ sec. line intersects rim of canyon, over which it is impossible to survey. Therefore terminate the survey of this line at $\frac{1}{4}$ sec. cor.

Land; hilly.

Soil; 3rd rate.

Timber; none.

Undergrowth; black brush, Indian tea, cactus, yucca, palo christi, catclaw, and scrub oak.

From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., described in Book "E".

N. $0^{\circ} 03'$ W., bet. secs. 32 and 33.

Over mountainous land, thru thick undergrowth.

3.70

Spur, slopes E. Desc. 250 ft. over NE. slope to

27.30

Wash, 10 lks. wide, course NE. Desc. slightly along E. slope.

36.40

Spur, slopes N. 20° E. Desc. 57 ft. over N. slope to

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{c} \uparrow \\ \text{S } 32 \quad | \quad \text{S } 33 \\ 1921 \end{array}$$

40.50

Wash, 15 lks. wide, from SE. to NE. along E. slope

43.00

Spur, slopes E., desc. slightly to

57.00

Asc. 180 ft. over S. slope to

68.80

Spur, slopes E. Desc. 255 ft. over N. slope to

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for cor. of secs. 28, 29, 32 and 33, marked on brass cap

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains

T 27 N R 11 W
 S 29 | S 28
 S 32 | S 33
 1921

Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; juniper and pinyon.
 Undergrowth; black brush, Indian tea, cactus and yucca.

40.00 N. 89° 58' E., on a random line bet. secs. 28 and 33.
 80.10 Set temp. 1/4 sec. cor.
 Intersect N. and S. line, 12. lks. N. of the cor. of
 secs. 27, 28, 33 and 34.

Thence
 N. 89° 57' W., on a true line bet. secs. 28 and 33.
 Over mountainous land, thru thick undergrowth.
 Desc. 60 ft. over W. slope to
 3.50 Wash, 40 lks. wide, course N. 20° E. Asc. 125 ft. over
 SE. slope to
 14.00 Spur, slopes NE., along N. slope.
 21.60 Wash, 10 lks. wide, course NE. Asc. 157 ft. over SE.
 slope to
 40.05 Mark a cross (X) on solid rock at exact cor. point, and
 over same set an iron post, 3 ft. long, 1 in. in diam.,
 supported in a mound of stone for 1/4 sec. cor., marked
 on brass cap

1/4 S 28
 S 33
 1921

54.00 Desc. 210 ft. over NW. slope to
 Wash, 40 lks. wide, course NE. Asc. 244 ft. over E.
 slope to
 72.10 Spur, slopes NE., along N. slope to
 80.10 The cor. of secs. 28, 29, 32 and 33.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; none.
 Undergrowth; black brush, Indian tea, cactus, yucca,
 palo christi, catclaw and skunk brush.

10.00 No. 0° 03' W., bet. secs. 28 and 29.
 18.00 Over mountainous land, thru thick undergrowth.
 34.70 Desc. 235 ft. over N. slope to
 Enter small valley, bears E. and W. Desc. slightly to
 40.00 Wash, 25 lks. wide, course N. 60° E.
 Wash, 15 lks. wide, course E. Leave valley, bears E.
 and W. Asc. 110 ft. over S. slope to
 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins.
 in the ground for 1/4 sec. cor., marked on brass cap

S 29 | S 28
 1921

41.90 Raise a mound of stone,
 2 1/2 ft. base, 2 ft. high W. of cor.
 48.70 Spur, slopes E., desc. 60 ft.
 51.80 Wash, 10 lks. wide, course SE., asc. 430 ft. to sec. cor.
 52.50 Spur, slopes SE.
 58.20 Wash, 15 lks. wide, course SE.
 60.30 Spur, slopes SE.
 68.10 Wash, 15 lks. wide, course SE.
 80.00 Wash, 15 lks. wide, from NW. to SW.
 Spur sloping SE. Mark a cross (X) on solid rock, at

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains exact cor. point and over same set an iron post, 3 ft. long, 2 ins. in diam., supported in a mound of stone, for cor. of secs. 20, 21, 28 and 29, marked on brass cap

T 27 N R 11 W
 S 20 | S 21
 S 29 | S 28
 1921

Land; mountainous.
 Soil; rocky, 3rd and 4th rates.
 Timber; none.
 Undergrowth; black brush, Indian tea, cactus and yucca.

40.00 S. 89° 57' E., on a random line bet. secs. 21 and 28.
 80.12 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the cor. of secs. 21, 22, 27 and 28.
 Thence,
 N. 89° 57' W., on a true line bet. secs. 21 and 28.
 Over mountainous land, thru thick undergrowth.
 Asc. 145 ft. over E. slope to
 6.10 Spur, slopes S. Desc. 176 ft. over W. slope to.
 12.00 Wash, 20 lks. wide, course S. Asc. 124 ft. over E.
 slope to
 17.00 Spur, slopes SW. Desc. 240 ft. to
 27.50 Wash, 15 lks. wide, course S.
 32.70 Spur, slopes S. Desc. 230 ft. over W. slope to
 40.06 Mark a cross (X) on solid rock at exact cor. point and
 over same set an iron post, 3 ft. long, 1 in. in diam.,
 supported in a mound of stone, for $\frac{1}{4}$ sec. cor., mark-
 ed on brass cap

$\frac{1}{4}$ S 21
 S 28
 1921

40.50 Wash, 30 lks. wide, course SE. Asc. along NE. slope,
 457 ft. to sec. cor.
 80.12 The cor. of secs. 20, 21, 28 and 29.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; none.
 Undergrowth; black brush, cactus, yucca, Indian tea
 and palo christi.

12.00 N. 0° 03' W., bet. secs. 20 and 21.
 18.40 Over mountainous land, thru scattering timber and thick
 undergrowth. Desc. 208 ft. over N. slope to
 37.20 Wash, 30 lks. wide, course E. Asc. 207 ft.
 40.00 Spur, slopes S. E., continue ascent.
 Spur, slopes SE., along E. slope.
 Mark a cross (X) on solid rock at exact cor. point and
 over same set an iron post, 3 ft. long, 1 in. in diam.,
 supported in a mound of stone, 4 ft. base, 3 ft.
 high, for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$
 S 20 | S 21
 1921

51.00 Desc. 90 ft. to
 61.90 Wash, 20 lks. wide, course E., asc. 50 ft. to
 73.90 Spur, slopes SE., asc. 35 ft. to
 Spur, slopes E., desc. 25 ft. to

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains
80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bed rock, deposit stone marked (X) at base of post, and raise a mound of stone around post, for cor. of secs. 16, 17, 20 and 21, marked on brass cap

T 27 N R 11 W
 $\frac{S}{S} \frac{17}{20} | \frac{S}{S} \frac{16}{21}$
 1921

Raise a mound of stone,

$2\frac{1}{2}$ ft. base, 2 ft. high W. of cor.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; juniper.

Undergrowth; black brush, Indian tea, cactus, yucca, skunk brush.

17.20
40.06

S. 89° 57' E., on a true line bet. secs. 16 and 21. Over mountainous land, thru thick undergrowth.

Asc. over gradual slope 109 ft. to

Spur, slopes SE., desc. 120 ft. to

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4} \frac{S}{S} \frac{16}{21}$
 1921

22.00 chs. E. of $\frac{1}{4}$ sec. cor. rim of canyon, bears SE. and NW. The canyon wall being about 1000 ft. deep, it is impossible to complete the survey of this line.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; none.

Undergrowth; black brush, Indian tea, palo christi, cactus and yucca.

9.20
19.40
24.60
34.62
36.60
40.00

N. 0° 03' W., bet. secs. 16 and 17.

Over mountainous land, thru thick undergrowth.

Spur, slopes E. Thence over rolling spurs, draining E., desc. 180 ft.

Wash, 15 lks. wide, course E., asc. 50 ft. to

Wash, 10 lks. wide, course SE.

Wash, 20 lks. wide, course E.

Wash, course E.

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4} \frac{S}{S} \frac{17}{16}$
 1921

40.50
42.50
46.30
54.00
60.60
80.00

Spur, slopes E.

Wash, 15 lks. wide, course E.

Wash, 15 lks. wide, course E., asc. 50 ft. to

Spur, slopes E., desc. 115 ft.

Wash, 15 lks. wide, course E. Asc. 290 ft. over broken SE. slope to

Mark a cross (X) on solid rock at exact cor. point and over same set an iron post, 3 ft. long, 2 ins. in

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains

diam., supported in a mound of stone, 4 ft. base, 3 ft. high, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

T 27 N. R 11 W

S 8	S 9
S 17	S 16

1921

Land; mountainous, drains E.

Soil; rocky, 4th rate.

Timber; juniper.

Undergrowth; black brush, cactus, Indian tea, yucca, catclaw and palo christi.

N. 0° 03' W., bet. secs. 8 and 9.

Over nearly level land, thru scattering scrub timber and thick undergrowth.

Asc. 70 ft. to

5.40 Spur, slopes E., desc. slightly to

17.50 Wash, 10 lks. wide, course N. 15° E.

22.50 Same wash, course NW., over level mesa.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap

S 8	S 9

1921

60.00 Leave mesa and desc. 385 ft. over N. slope to

77.70 Mark a cross (X) on solid rock, at exact witness cor. point and over same set an iron post, 3 ft. long, 2 ins. in diam., supported in a mound of stone, for witness cor. to cor. of secs. 4, 5, 8 and 9, marked on brass cap

W	C
T 27 N	R 11 W
S 5	S 4
S 8	S 9

1921

80.00 Cor. stands on top edge of cliff about 500 ft. high, which is the S. rim of the canyon of the Colo. River. The true point for cor. of secs. 4, 5, 8 and 9 is inaccessible.

Land; level to broken.

Soil; 2nd to 4th rates.

Timber; scrub juniper and palo christi.

Undergrowth; black brush, Indian tea and cactus.

From the cor. of secs. 5, 6, 31 and 32 on S. bdy. of Tp., described in Book "E".

N. 0° 03' W., bet. secs. 31 and 32.

Over mountainous land, thru scattering timber and thick undergrowth.

6.60 Asc. 68 ft. over S. slope to

Ridge, bears E. and W. Desc. 300 ft. over broken NW. slope to

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

S 31	S 32

1921

Survey of part of Subdivision of T. 27 N., R. 11 W.

Chains From which
 A pinyon, 10 ins. in diam., bears N. $61\frac{1}{4}^{\circ}$ E., 439 lks.
 dist. marked $\frac{1}{4}$ S 32 B T.
 A pinyon, 14 ins. in diam., bears N. 67° W., 255 lks.
 dist. marked $\frac{1}{4}$ S 31 B T.
 42.25 Wash, 10 lks. wide, course E., along E. slope to
 45.00 Low spur, slopes N. 60° E. Desc. 115 ft. over N. slope
 57.60 Wash, 30 lks. wide, course N. 70° E., asc. 80 ft.
 80.00 Spur, slopes NE. Set an iron post, 3 ft. long, 2 ins.
 in diam., 22 ins. in the ground to bed rock, deposit
 stone marked cross (X) at base of post and raised a
 mound of stone around post for cor. of secs. 29, 30,
 31 and 32, marked on brass cap

T. 27 N R 11 W
 S 30 | S 29
 S 31 | S 32
 1921

Raise a mound of stone, 2
 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land; mountainous.
 Soil; 3rd rate.
 Timber; pinyon and juniper.
 Undergrowth; black brush.

40.00 N. $89^{\circ} 58'$ E., on a random line bet. secs. 29 and 32.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line, 5 lks. N. of the cor. of secs.
 28, 29, 32 and 33.
 Thence
 West, on a true line bet. secs. 29 and 32.
 Over rolling land along N. slope, thru scattering timber
 and thick undergrowth.
 32.60 Wash, 30 lks. wide, course NE.
 40.10 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins.
 in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 29
 S 32
 1921

Raise a mound of stone, 2
 ft. base, 2 ft. high N. of cor.
 59.20 Wash, 20 lks. wide, course NE., asc. 70 ft. to
 63.90 Spur, slopes NE., along N. slope to
 80.20 The cor. of secs. 29, 30, 31 and 32.
 Land; rolling.
 Soil; 3rd rate.
 Timber; juniper and pinyon.
 Undergrowth; black brush, Indian tea, skunk brush,
 cactus and yucca.

40.00 S. $89^{\circ} 58'$ W., on a random line bet. secs. 30 and 31.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.51 Fall 11 lks. N. of the cor. of secs. 25, 30, 31 and 36,
 on W. bdy. of Tp., described in field notes of current
 group No. 109.
 Thence
 N. $89^{\circ} 53'$ E., on a true line bet. secs. 30 and 31.
 Over rolling land, thru low undergrowth.
 4.50 Ridge, bears N. and S. Desc. 340 ft. over E. slope to
 28.50 Wash, 10 lks. wide, course N. Thence over grassy flat.
 39.51 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 30
 S 31
 1921

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains 62.40 79.51	<p>Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Leave valley, bears NE. and SW. Thence along N. slope. The cor. of secs. 29, 30, 31 and 32. Land; rolling and level. Soil; 3rd rate. Timber; none. Undergrowth; black brush, Indian tea, cactus, and yucca.</p>
25.00 40.00	<p>N. 0° 0 3' W., bet. secs. 29 and 30. Over broken hills, thru scattering undergrowth. Desc. 135 ft. to Enter small valley bears E. and W. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap</p>
	<p style="text-align: center;"> $\begin{array}{c} \frac{1}{4} \\ \text{S } 30 \quad \quad \text{S } 29 \\ \hline 1921 \end{array}$ </p>
42.00 64.80 69.80 78.00 80.00	<p>Raise a mound of stone, 2½ ft. base, 2 ft. high W. of cor. Leave valley, bears E. and W. Asc. 325 ft. over S. slope Spur, slopes E. Desc. 90 ft. over N. slope to Ravine, course SE. Asc. 167 ft. over SW. slope to Spur, slopes SE., desc. slightly to Mark cross (X) at exact cor. point, and over same, set an iron post, 3 ft. long, 2 ins. in diam., on bed rock, supported in a mound of stone, for cor. of secs. 19, 20, 29 and 30, marked on brass cap</p>
	<p style="text-align: center;"> $\begin{array}{c} \text{T } 27 \text{ N } \quad \text{R } 11 \text{ W} \\ \hline \text{S } 19 \quad \quad \text{S } 20 \\ \hline \text{S } 30 \quad \quad \text{S } 29 \\ \hline 1921 \end{array}$ </p>
	<p>Land; level and hilly. Soil; rocky, 4th rate. Timber; none. Undergrowth; black brush, Indian tea, and cactus.</p>
40.00 80.18	<p>East, on a random line bet. secs. 20 and 29 Set temp. ¼ sec. cor. Intersect N. and S. line, 3 lks. S. of the cor. of secs. 20, 21, 28 and 29.</p>
18.70 34.63 40.09	<p>Thence S. 89° 59' W., on a true line bet. secs. 20 and 29. Over mountainous land, thru scattering timber and thick undergrowth, along S. slope to Spur, slopes SE., desc. 70 ft. to Asc. 100 ft. to Mark a cross (X) on solid rock at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, for ¼ sec. cor., marked on brass cap</p>
	<p style="text-align: center;"> $\frac{1}{4} \frac{\text{S } 20}{\text{S } 29}$ </p>
41.50 50.50 54.70 69.30 80.18	<p>Spur, slopes SE. Desc. 90 ft. over SW. slope to Wash, 15 lks. wide, course SE. Asc. 44 ft. to Spur, slopes SE. Desc. 190 ft. over W. slope to Wash, 20 lks. wide, course SE. Asc. 190 ft. over NE. slope to The cor. of secs. 19, 20, 29 and 30. Land; mountainous. Soil; rocky, 4th rate.</p>

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains	Timber; juniper. Undergrowth; black brush, Indian tea, cactus, yucca and palo christi.
40.00	S. 89° 53' W., on a random line bet. secs. 19 and 30. Set temp. ¼ sec. cor.
79.50	Fall 23 lks. S. of the cor. of secs. 19, 24, 25 and 30, on W. bdy. of Tp., described in field notes of current group 109.
	Thence
	S. 89° 57' E., on a true line bet. secs. 19 and 30. Over mountainous land, thru low brush.
18.15	Desc. 240 ft. over SE. slope to
24.00	Ravine, 12 lks. wide, course S. 20° W. Asc. 170 ft. to
29.50	Spur, slopes S. 35° W., asc. 100 ft. to
	Ravine, 12 lks. wide, course S. 30° W. Asc. 250 ft. over
	W. slope to
39.50	Mark cross (X) at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., on bed rock supported in a mound of stone, for ¼ sec. cor. marked on brass cap
	$\frac{1}{4} \begin{array}{c} S 19 \\ S 30 \\ 1921 \end{array}$
41.25	Spur, slopes S. Desc. 225 ft. over E. slope to
56.00	Ravine, 10 lks. wide, course S. Asc. 225 ft. over W. slope to
69.50	Spur, slopes S. 20° W., desc. 60 ft. to sec. cor.
76.20	Spur, slopes SE.
79.50	The cor. of secs. 19, 20, 29 and 30. Land; mountainous. Soil; rocky, 4th rate. Timber; none. Undergrowth; black brush, Indian tea, and cactus.
	$\frac{1}{4} \begin{array}{c} S 19 \\ S 20 \\ 1921 \end{array}$
11.80	N. 0° 03' W., bet. secs. 19 and 20. Over mountainous land, thru low undergrowth. Desc. 60 ft. over broken NE. slope to
40.00	Ravine, 6 lks. wide, course SE. Asc. 200 ft. to Ridge brs. N. 70° E., and S. 70° W. Mark cross (X) at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., on bed rock supported in a mound of stone, for ¼ sec. cor., marked on brass cap
	$\frac{1}{4} \begin{array}{c} S 19 \\ S 20 \\ 1921 \end{array}$
54.00	Desc. slightly. Ravine, course NW., over rolling land to
65.00	Desc. 85 ft. to
75.00	Asc. 65 ft. to
78.70	Spur, slopes S. 60° W., along W. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap
	$\begin{array}{c} T 27 N R 11 W \\ S 18 S 17 \\ S 19 S 20 \\ 1921 \end{array}$
	Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Land; mountainous. Soil; rocky, 3d rate.

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains	Timber; none. Undergrowth; black brush, Indian tea, and cactus.
40.00	N. 89° 59' E., on a random line bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 16, 17, 20 and 21. Thence N. 89° 55' W., on a true line bet. secs. 17 and 20. Over mountainous land, thru thick undergrowth. Asc. 52 ft. over NE. slope to Spur, slopes SE., desc. 60 ft.
5.60	Wash, 20 lks. wide, course S. 20° E., asc. 125 ft. to
10.40	Spur, slopes SE., desc. 170 ft. to
22.70	Wash, 15 lks. wide, course SW., slight ascent to
28.00	Spur, slopes S., slight descent to
35.50	Mark cross (X) at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., on solid rock, supported in a mound of stone 4 ft. base, 2½ ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap
40.10	
	$\frac{1}{4}$ $\frac{S 17}{S 20}$ 1921
43.80	Over small spurs to sec. cor. Spur, slopes SW.
55.00	Spur, slopes SW.
73.50	Spur, slopes SW.
80.20	The cor. of secs. 17, 18, 19 and 20. Land; mountainous. Soil; rocky, 4th rate. Timber; juniper. Undergrowth; black brush, Indian tea, cactus, yucca, and catclaw
40.00	N: 89° 57' W., on a random line bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor.
79.40	Intersect the cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., described in field notes of current Group No. 109. Thence S. 89° 57' E., on a true line bet. secs. 18 and 19. Over broken land, thru thick undergrowth. Desc. 160 ft. over E. slope to Wash, 20 lks. wide, course NE., asc. 135 ft. to Spur, slopes N., desc. 50 ft.
15.30	Ravine, course N., asc. slightly.
27.80	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap
32.00	
39.40	
	$\frac{1}{4}$ $\frac{S 18}{S 19}$ 1921
46.00	Continue slight ascent. Spur, slopes N. Desc. 110 ft. over NE. slope to
60.50	Ravine, course NW., along S. slope.
73.25	Wash, 6 lks. wide, course S. 80° W., asc. 50 ft. to
79.40	The cor. of secs. 17, 18, 19 and 20. Land; mountainous. Soil; 3rd rate. Timber; none. Undergrowth; black brush, Indian tea, cactus, yucca, and cat claw.

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains	N. 0° 03' W., bet. secs. 17 and 18. Over rolling hills, thru scattering undergrowth. Desc. 46 ft. over NW. slope to 4.10 Wash, 8 lks. wide, course S. 70° W. Asc. 77 ft. to 6.80 Small spur, slopes S. 70° W., along W. slope. 20.70 Wash, 4 lks. wide, course S. 80° W., asc. 100 ft. to 30.00 Top of ascent, thence over flat: 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\begin{array}{c} \frac{1}{4} \\ \text{S } 18 \quad \quad \text{S } 17 \\ \hline 1921 \end{array}$
54.20	Asc. 210 ft. over S. slope to
59.50	Ridge, bears E. and W. Desc. 60 ft. over N. slope to Forks of small wash, course W. Asc. 100 ft. over S. slope to
67.40	Ridge, bears E. and W. Desc. 46 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post, and raise a mound of stone around post, for cor. of secs. 7, 8, 17 and 18, mark- ed on brass cap
	$\begin{array}{c} \text{T } 27 \text{ N } \text{ R } 11 \text{ W} \\ \text{S } 7 \quad \quad \text{S } 8 \\ \hline \text{S } 18 \quad \quad \text{S } 17 \\ \hline 1921 \end{array}$
	Land; hilly. Soil; 3rd rate. Timber; none. Undergrowth; black brush, Indian tea, cactus, yucca, and cat claw.
40.00	S. 89° 55' E., on a random line bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 8, 9, 16 and 17. Thence N. 89° 50' W., on a true line bet. secs. 8 and 17. Over rolling land, thru scattering timber and thick undergrowth. Asc. 63 ft. over SE. slope, to 8.70 Spur, slopes NE. Thence over N. slope. 40.05 Mark a cross (X) on solid rock, at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, $3\frac{1}{2}$ ft. base, 3 ft. high, for $\frac{1}{4}$ sec. cor. marked on brass cap
	$\frac{1}{4} \frac{\text{S } 8}{\text{S } 17}$ 1921
50.10	Low ridge, bears S. and N. W.
64.70	Wash, 10 lks. wide, course N.
76.76	Wash, 15 lks. wide, course N.
80.10	The cor. of secs. 7, 8, 17 and 18. Land; slightly rolling. Soil; 3rd rate. Timber; juniper. Undergrowth; black brush, cactus and yucca, Indian tea, scrub oak and palo christi.

Survey of part of subdivision of T. 27 N., R. 11 W.

Chains

Note: 26.0 chs. W. of the cor. of secs. 7, 8, 17 and 18, rim of canyon, bears N. and S. As the canyon is about 2000 ft. deep, it is impossible to survey the line bet. secs. 7 and 18.

N. 0° 03' W., bet. secs. 7 and 8.
Over rolling land, thru scattering timber and thick undergrowth.

14.50 Desc. 334 ft. over NE. slope to
28°00 Ravine, course NW., asc. 100 ft. over SE. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit stone marked cross (X) at base of post and raise a mound of stone around post for 1/4 sec. cor., marked on brass cap

1/4
S 7 | S 8
1921

Over level land to
48.50 Asc. 170 ft. over SW. slope to
56.30 Spur, slopes NW. Desc. 315 ft. over NE. slope to
71.60 Wash, 15 lks. wide, course NW.
76.00 Spur, slopes NW.
79.70 Wash, 10 lks. wide, course W.
80.00 Mark a cross (X) on solid rock at exact cor. point and over same, set an iron post, 3 ft. long, 2 ins. in diam., supported in a mound of stone, for cor. of secs. 5, 6, 7 and 8, marked on brass cap

T 27 N R 11 W
S 6 | S 5
S 7 | S 8
1921

Land; rolling.
Soil; 3rd and 4th rate.
Timber; scattering juniper.
Undergrowth; black brush, yucca, palo christi and cactus.

40.00 S. 89° 50' E., on a random line bet. secs. 5 and 8.
Set temp. 1/4 sec. cor.
79.60 From this point the witness cor. to the cor. of secs. 4, 5, 8 and 9, bears S. 12° 25' E., 2.33 chs. dist. Therefore by computation, at
80.10 Intersect N. and S. line 2 lks. S. of the true point for cor. of secs. 4, 5, 8 and 9, witnessed by cor. at 2.30 chs. S. 0° 03' E., as hereinbefore described. From the true point for cor. of secs. 4, 5, 8 and 9, Thence
.50 N. 89° 51' W., on a true line bet. secs. 5 and 8. Edge of rim rock, bears NE. and SW.
Over mountainous land, thru scattering timber and thick undergrowth. Asc. 132 ft. over E. slope to
15.00 Flat spur, slopes N. Desc. 160 ft. over W. slope to
32.00 Wash, 3 chs. wide, course N., asc. 35 ft. to
40.05 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, deposit stone marked (X) at base of post, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap

1/4 S 5
S 8
1921

Raise a mound

Survey or part of subdivision of T. 27 N., R. 11 W.

Chains of stone 2½ ft. base, 2 ft. high N. of cor.
 About 7 chs. N. of cor., canyon rim, bears E. and W.
 Asc. 127 ft. over E. slope to
 45.50 Spur, slopes N., desc. 70 ft. to
 50.50 Wash, course N., asc. 155 ft. to
 65.00 Spur, slopes NW.
 Desc. 142 ft. over W. slope to
 80.10 The cor. of secs. 5, 6, 7 and 8.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; scrub juniper and palo christi
 Undergrowth; black brush, Indian tea, scrub oak, cactus
 and yucca.

On account of impassable cliffs to the north and west,
 discontinue the survey.

Boundaries of the portion of T. 27 N., R. 11 W.,
 surveyed under group 108.

Latitudes, departures and closing errors.

Line designated	True bearing.	Dist- ance.	Latitudes.		Departures.	
			N	S.	E.	W.
S. bdy. of Tp.	S.89°58'W.	479.45		.28		479.45
W. bdy. (part)	North	240.00	240.00			
Subdivisional bdy.	S.89°57'E.	79.40		.07	79.40	
	N.0°03'W.	160.00	160.00			.14
	S.89°51'E.	80.10		.21	80.10	
	S.0°03'E.	240.00		240.00	.21	
	S.89°57'E.	80.12		.07	80.12	
	N.89°54'E.	80.02	.14		80.02	
	N.0°01'W.	80.00	80.00			.02
	N.89°55'E.	80.10	.12		80.10	
E. bdy. of Tp. (part)	N.0°01'W.	80.00	80.00			.02
	N.89°57'E.	80.08	.07		80.08	
	South	320.00		320.00		
	Convergency				.27	
	Totals - - - - -		560.33	560.63	480.30	479.63
				560.33	479.63	
	Error in latitude - - - - -			.30		
	Error in departure - - - - -				.67	

The continued satisfactory adjustment of the instru-
 ments thruout the survey of this township is indicated
 from field tests as shown in Book "H".

GENERAL DESCRIPTION.

The portion of this township surveyed as described in the foregoing field notes lies entirely within the Hualpai Indian Reservation. The surface ranges from rolling to rough mountainous, becoming unsurveyable in the northern part at the rim of the Grand Canyon of the Colorado River. For the most part, the soil is very rocky and unfit for cultivation.

There are some scrub juniper and palo christi trees scattered over various portions of the township. The undergrowth is black brush, Indian tea, cactus, Spanish dagger, cat claw and other desert varieties.

There are no indications of mineral in the township and no springs or permanent streams, except the Colorado River. There are no settlers or improvements.

BOOK 3547

CERTIFICATE OF UNITED STATES Transitman.

I, Horace M. Muscott, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 108, Arizona, bearing date of the 20th day of February, 1920, 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 the Subdivision Lines of

TOWNSHIP 27 NORTH, RANGE 11 WEST,

of the Gila and Salt

River Base and Meridian, in the State of Arizona, and by diagram on page 2 hereof 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 108, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey

Place - Los Angeles, Calif
Date - March 22 1923

Horace M. Muscott
U. S. Transitman

APPROVAL

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.

BOOK 3547

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Thomas D. Daley, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group No. 108, Arizona, bearing date of the 20th day of February, 1920, 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 the Subdivision Lines of

TOWNSHIP 27 North, Range 11 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, and by diagram on page 2 hereof 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 No. 108, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place - Santa Fe, N. M. Thomas D. Daley U. S. Surveyor.

Date - March 26, 1923. APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, JUN 18, 1923.

The foregoing field notes of the survey of part of the Subdivision Lines

of

TOWNSHIP 27 NORTH, RANGE 11 WEST,

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

executed by Horace M. Luscott, U. S. Transitman, and Thomas D. Daley, U. S. Surveyor, under special instructions dated Feb. 20, 1920, for Group 108, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Francis DeWitt 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.