## BOOK 3494

3494

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Book "H"

DE -3 1921

# FIELD NOTES

### OF THE RESURVEY OF THE

part of the South boundary of Township 19 North, Range 3 East,  and part of the East boundary of Township 19 North, Range 3 East,  and part of the South boundary of Township 19 North, Range 3 East,  AND OF THE SURVEY OF  part of the Subdivision lines of  Township 18 North, Range 3 East,  Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otts Ross, U. S. Surveyor,  In the capacity of U. S. Surveyor, under Special Instructions dated October 15, 191 issued by the United States Surveyor General to govern surveys included in Ground No. 104, Arizona, which were approved by the Commissioner of the General Lan Office, October 29, 1919, and Assignment Instructions dated November 7, 191		ary of Township 18 North, Range 3 East,
AND OF THE SURVEY OF  part of the Subdivision lines of  Township 18 North, Range 3 East,  Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U. S. Surveyor, under Special Instructions dated Nataber 15, 191 issued by the United States Surveyor General to govern surveys included in Grot No. 194, Arizona, which were approved by the Commissioner of the General Lange and Commissioner of the General Lange a	part of th	a South boundary of Township 19 North, Range 4 East,
AND OF THE SURVEY OF  part of the Subdivision lines of  Township 18 North, Range 3 East,  Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor.  In the capacity of U.S. Surveyor, under Special Instructions dated October 15 191  issued by the United States Surveyor General to govern surveys included in Grot  No 194, Arizona, which were approved by the Commissioner of the General Lan	part of th	e East boundary of Township 19 North, Range 3 East,
Township 16 North, Range 3 East,  Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U.S. Surveyor, under Special Instructions dated October 15., 191  issued by the United States Surveyor General to govern surveys included in Grown 104, Arizona, which were approved by the Commissioner of the General Landing States.	and part o	f the South boundary of Township 19 North, Range 3 East,
Township 16 North, Range 3 East,  Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U.S. Surveyor, under Special Instructions dated October 15., 191  issued by the United States Surveyor General to govern surveys included in Grown 104, Arizona, which were approved by the Commissioner of the General Landing States.		AND OF THE SURVEY OF
Of the Gils and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Boss, U. S. Surveyor,  In the capacity of U. S. Surveyor,, under Special Instructions dated October 15, 191  issued by the United States Surveyor General to govern surveys included in Gron  No. 194, Arizona, which were approved by the Commissioner of the General Lar	<b></b>	ment of the Subdivision lines of
Of the Gila and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U.S. Surveyor under Special Instructions dated October 15 , 191  issued by the United States Surveyor General to govern surveys included in Grot  No. 194, Arizona , which were approved by the Commissioner of the General Lan		Part o Ca. VIII - DANGEL LANGE - LANGE
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Of the Gils and Salt River Base and Meridian,  In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U. S. Surveyor, under Special Instructions dated October 15, 191  issued by the United States Surveyor General to govern surveys included in Grot  No. 194, Arizona, which were approved by the Commissioner of the General Lan		Township 18 North, Range 3 East,
In the State of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,  In the capacity of U. S. Surveyor, under Special Instructions dated October 15, 191  issued by the United States Surveyor General to govern surveys included in Ground No. 194, Arizona, which were approved by the Commissioner of the General Land		
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issued by the United States Surveyor General to govern surveys included in Ground No. 104, Arizona, which were approved by the Commissioner of the General Land		te of Arizona  EXECUTED BY  Otis Ross, U. S. Surveyor,
No. 104, Arizona, which were approved by the Commissioner of the General Lan		EXECUTED BY  Otis Ross, U. S. Swyeyor,
	In the cap	EXECUTED BY  Otis Ross, U. S. Surveyor,  acity of U. S. Surveyor., under Special Instructions dated October 15, 1915
Office, October 29 , 1919, and Assignment Instructions dated November 7, 191	In the cap	EXECUTED BY  Otis Ross, U. S. Surveyor,  acity of U. S. Surveyor., under Special Instructions dated October 15, 1915
	In the cap	EXECUTED BY  Otis Ross, U. S. Swreyor.  acity of U. S. Surveyor, under Special Instructions dated October 15., 1915  the United States Surveyor General to govern surveys included in Group
	In the cap issued by No. 104,	EXECUTED BY  Otis Ross, U. S. Surveyor,  acity of U. S. Surveyor, under Special Instructions dated October 15, 1915  the United States Surveyor General to govern surveys included in Grow,  Arizona, which were approved by the Commissioner of the General Land
Resurvey and Survey commenced, 19120	In the cap issued by No. 104,	EXECUTED BY  Otis Ross, U. S. Surveyor,  acity of U. S. Surveyor, under Special Instructions dated October 15, 1919  the United States Surveyor General to govern surveys included in Group  Arizona, which were approved by the Commissioner of the General Land

Resurvey and Survey completed April 19 , 1920

# INDEX DIAGRAM. Township ...... Range .....

## BOOK 3494

3494

Index Diagram

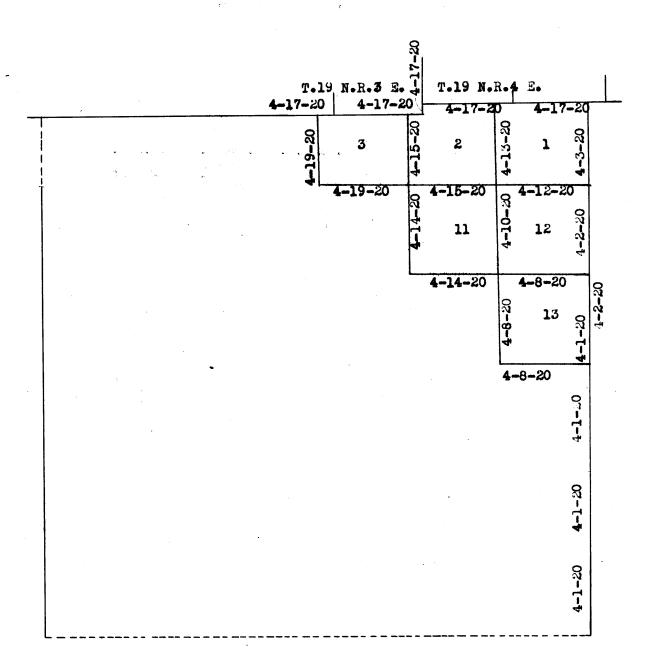
Township 18 North, Range 3 East,

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## **BOOK 3494**

#### Date Diagram

Township 18 North, Range 3 East,



On the above diagram:-

red lines indicate surveys, and blue lines indicate resurveys, executed by Otis Ross, U. S. Surveyor, on dates shown thereon, and black lines indicate accepted surveys, and

dotted black lines indicate unsurveyed.

- Survey commenced April 1, 1920, and executed with a Young and Sons' mountain transit No. 8501; the instrument is equipped with a full vertical circle and the Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.
- March 31, 1920: I 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 a meridian established by Polaris observation proceed as follows
- In camp near the SE. cor. of T. 18 N., R. 3 E., Gila and Salt River Base and Meridian, Arizona, in latitude 34° 54' N., longitude 112° 00' W., at 6 h. 51.5 m. p.m., l.m.t., lobserve Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground 5 chs. N.
- Azimuth of Polaris at western elongation = 1° 21' 55".
- April 1, 1920: I lay off the azimuth of Polaris 1° 22' to the east, and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.
- At 7 h. 30 m., a. m., l.m.t., I set off 34° 54' N. on the lat. arc.; 4° 37' N. on the declination arc; and determine a meridian with the solar, which I find to agree with the true meridian.
- At app. noon, with the late are unchanged, I observe the sun on the meridian; the resulting reading of the decleare, is 4° 40° No, which agrees with the computed declination of the sun.
- At 4 h. 30 m., p.m., l.m.t., with the lat. arc unchanged, I set off 4° 46' N. on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian.
- As all of the solar observations during the usual hours, of solar work come within 1' 50" of the true meridian, I conclude that the adjustments of the instrument are satisfactory.
- Unless otherwise specified all measurements are made with a Lufkin steel tape 5 chains in length, compared with a Chesterman 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.

Do	survey of East bdy. of Township 18 North, Range 3 East.
	The East boundary of T. 18 N., R. 3 E. was surveyed by Edgar G. Dietrich, U. S. D. S. in 1905. No retracement or resurvey of this line is of record.
	Retracement for Resurvey.
<b>39.9</b> 6	From the original cor. of Ts. 17 and 18 N., Rs. 5 and 4 E., hereinafter described, North, on a random line, bet. secs. 31 and 36. Intersect the original \$\frac{1}{2}\$ sec. cor, hereinafter described.  True course and dist. of S. \$\frac{1}{2}\$ of line, bet. secs. 31 and 36 are therefore North 39.96 chs.
,39 <b>.</b> 87	Thence North, on a random line, bet. secs. 31 and 36. Fall 2 lks. E. of the original cor. of secs. 25, 30, 31 and 36, hereinafter described.  True course and dist. of N. 2 of line, bet. secs. 31 and 36, are therefore, N. 0° 2' W., 39.87 chs.
40 • 0 <b>7</b>	North, on a random line, bet. secs. 25 and 30. Intersect the original $\frac{1}{4}$ sec. cor., hereinafter described True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 25 and 30, are therefore, North, 40.07 chs.
40.07	Thence North on a random line, bet. secs. 25 and 30. Fall 8 lks. E. of the original cor. of secs. 19, 24, 25, and 30, hereinafter described.  True course and dist. of N. 2 of line bet. secs. 25 and 30, are therefore, N. 0° 7' W., 40.07 chs.
40•16	North, on a random line, bet. secs. 19 and 24.  Fall 2 lks. F. of the original $\frac{1}{2}$ sec. cor., hereinafter described.  True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 19 and 24, are therefore, N. 0° 2' W., 40.16 chs.
<b>39•9</b> 0	Thence North, on random line, bet. secs. 19 and 24. Fall 6 lks. E. of the original cor. of secs. 13, 18, 19 and 24, hereinafter described. True course and dist. of N. half of line bet. secs. 19 and 24 are therefore, N. 0° 05' W., 39.90 chs.
<b>4</b> 0 • <b>1</b> 2	North, on a random line, bet. secs. 13 and 18. Intersect the original ½ sec. cor., hereinafter described. True course and dist. of S. 2 of line, bet. secs. 13 and 18 are therefore, North 40.12 chs.
<b>39∙</b> 96	Thence North, on a random line, bet. secs. 13 and 18.  Fall 23 lks. E. of the original cor. of secs. 7, 12, 13 and 18, hereinafter described.  True course and dist. of N. of line, bet. secs. 13 and 18 are therefore, N. O 20' W., 39.96 chs.
39 <b>.</b> 97	North, on a random line, bet. secs. 7 and 12.  Fall 23 lks. W. of the original ½ sec. cor., hereinafter described.  True course and distance of S. ½ of line bet. secs. 7 and 12 are therefore, N. 0° 20' E., 39.97 chs.

## Resurvey of East bdy. of Township 18 North, Range 3 East.

Chains

Thence

North, on a random line, on W. bdy. of sec. 7. 30.38 Fell 15 lks. W. of the original witness cor. to the cor. of secs. 1, 6, 7, and 12, hereinafter described, re-

corded as being set at 8.90 chs. S. of true cor. point. Chain measurement to cor. point is impracticable.

True course and dist. of N. 2 of W. bdy. of sec. 7 are therefore N. 0° 17' E., 39.28 chs., and the witness cor. is now 8.90 chs. S. 0° 17' W. from point for sec.

From original witness cor. of secs. 1, 6, 7 and 12.

North, on random line.

.87 Top of precipitous cliffs facing NE. Discontinue chain-

ing and triangulate as follows: Leave flag at this point. 49.72 / /4 sec. cor.

From a point at foot of cliffs, and N. of flag, measure a base East, 9.00 chs. dist.

From E. end of base, flag brs.
S. 12° 39' W.
Included angles are, 77° 21',
12° 39' and 90° 00', the sum
of which is 180° 00'.

The dist. triangulated on random line is therefore obtain-by tang. 77° 21' x base or  $4.45548 \times 9.00 = 40.10 \text{ chs}$ 

which added to .87 chs. gives 40.97 chs. as the dist. from witness cor. N. to the triangulation point at foot of cliffs.

8.90 Inaccessible point, 4 lks. W. of true point for cor. of secs. 6 and 7.

40.97 Triangulation point. Continue measurement by chaining. .49.72 (40.82 chs. northing from point for cor. of secs. 6 and .7, and 80.10 chs. northing from \( \frac{1}{4} \) sec. cor. of secs. 7 and 12).

Intersect the original \$\frac{1}{4}\$ sec. cor. of secs. 1 and 6, hereinafter described.

The true course and dist. of S. 2 of W. bdy. of sec. 6 are therefore N. 0° 4' W., 40.82 chs.

The true point for cor. of secs. 1 and 12 being midway bet. the 4 sec. cor. of secs. 7 and 12, and the 4 sec. cor. of secs. 1 and 6 or 40.05 chs. from each, said true point for cor. of secs. 1 and 12 will be at a point,77 lks. N. 0° 04' W. from the point for cor. of secs. 6 and 7 and at 40.05 chs. S. 0° 04' E. from a sec. cor. of secs. 1 and 6. sec. cor. of secs. 1 and 6.

From original a sec. cor. of secs. 1 and 6. North, on a random line, bet. secs. 1 and 6.

28.51 Intersect the original closing cor. of Ts. 18 N., Rs. 3

and 4,E., hereinafter described.

True course and dist. of N. 2 of line, bet. secs. 1 and 6, are therefore, North, 28.51 chs.

### Resurvey.

The original cor. of Ts. 17 and 18 N., Rs. 3 and 4 E., is a sandstone, 15 x 10 x 4 ins. above ground, firmly set, properly marked and witnessed by 4 pits, one each NE., SE., SW., and NW., of cor., and one bearing tree, a cedar 28 ins. in diam., N. 34° W., 127 lks. dist., marked T 18 N R 3 E S 36 BT.

Alongside old stone, set an iron post 3 ft. long, 3 ins.

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Resurvey of East Bdy. of Township 18 North, Range 3 East.
 Chains
                 in diam., 24 ins. in the ground, for cor. of Ts. 17
                and 18 N., Rs. 3 and 4 E., marked on brass cap
                                             T 18, N
R 3 E | R 4 E
S 36 | S 31
                                                S1 | S6
                                                 L TIT
                                                    .1920
            Raise a mound of stone, 2 ft. base, 12 ft. high, S. of
                 cor.
            Thence
            North, on a true line, bet. secs. 31 and 36.(5.\frac{1}{2})
Over mountainous land, thru scattering timper and under-
                 growth. Descend slightly to
    1.80 Gulch, course SE. Ascend 80 ft., over SE. slope.
  14.00 Spur, slopes E. Descend 60 ft., over NE. slope.
  18.72 Gulch, course E. Ascend 98 ft., over S. slope to 2 sec.
                 cor.
  33.99
            Hence, brs. E. and W.
. 39.96 Intersect the original 1 sec. cor. of secs. 31 and 36, which is a malpais stone, 14 x 14 x 12 ins. above
           ground, firmly set, properly marked, and witnessed by mound of stone, W. of cor., and one bearing tree.

A cedar, 18 ins. in diam., S. 62° W., 116 lks, dist., marked $2 8 36 BT.

Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.
                 of secs. 31 and 36, marked on brass cap
                                      s 36 s 31
                 from which
                        A forked ceder, 30 ins. in diam., brs. S. 7° E., 209 lks. dist., marked $ 31 BT.
            Thence
           N. 0° 02' W., on a true line, bet. secs. 31 and 36 (N.\frac{1}{2})
 Over mountainous land, thru scattering timber and undergrowth. Ascend 30 ft., over S. slope.

4.98 Spur, slopes E. Descend 170 ft., over NE. slope.

Gulch, course E. Ascend 180 ft., over S. slope, to base
                of gliff.
 33.57 Top of same cliff, 100 ft. high, brs. W. and IW. 37.00 Base of same cliff. Thence along steep broken E. slope.
 39.87 Intersect the original cor. of secs. 25, 30, 31 and 36, which is a sandstone, 14 x 12 x 3 ins. above ground, firmly set, properly marked and witnessed by a mound
                of stone, W. of cor., and two bearing trees as follows
A cedar, 26 ins. in diam., brs. S. 61 E., 137
           lks. dist., marked T 18 N R 4 E S 31 BT.
A cedar, 28 ins. in diam., brs. N. 49° E., 27
lks. dist., marked T 18 N R 4 E S 30 BT.
Alongside old stone, set an iron post, 3 ft. long, 3 ins.
                 in diam., 24 ins. in the ground, for cor. of secs. 25,
                 30, 31 and 36, marked on brass cap
                                                  T 18 N
                                             R 3 E | R 4 E
                                              S 25
                                              S 36 | S 31
                                                     1920
           Land, mountainous.
           Soil, rocky, 4th rate.
            Timber, scattering cedar and pinyon.
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Undergrowth, scattering oak brush, manzanita and catclaw.

Good grass.

## Resurvey of East bdy. of Township 18 North, Range 3 East

Chains North, on a true line, bet. secs. 25 and 30(5½)
Over mountainous land, thru dense undergrowth and scattering timber. Ascend 57 ft., over broken SE. slope, 5.00 Base of cliffs, 100 ft. high, bearing SW. and N.
6.00 Top of cliffs. Thence over E. slope, near the top of same cliffs, E. of line. Top of same cliffs, bearing S. and NW. over NE. face of cliffs. Descend 150 ft. 20.00 Base of same cliffs. Descend 75 ft., over N. slope.
29.74 Gulch, course SE. Ascend 60 ft., over S. slope.
24.20 Spur, slopes SE. Descend 75 ft., over NE. slope.
39.39 Gulch, course SE. Ascend 13 ft., over S. slope, to
Intersect the original ½ sec. cor. of secs. 25 and 30,
which is a sandstone, 18 x 10 x 8 ins. above ground,
firmly set, properly marked and witnessed by a mound
of stone, W. of cor. No bearing trees.
Alongside old stone, set an iron post, 3 ft. long, 1 in.
in diam., 12 ins. in the ground to bedrock, supported
in a mound of stone, for ½ sec. cor. of secs. 25 and
30, marked on brass cap 20.00 Base of same cliffs. Descend 75 ft., over N. slope.

S 25 TS 30

Thence N. 0° 07' W. on a true line, bet. secs. 25 and 30  $(N.\frac{1}{2})$ Over mountainous land, thru dense undergrowth and scattering timber. Ascend 134 ft., over S. slope.

4.71 Spur, slopes SE. Descend 174 ft., over N. slope.

28.16 Stream of seep water, 3 lks. wide, 1 in. deep, in gulch, course E. Ascend 180 ft. over S. slope, to 40.07 Intersect the original cor. of secs. 19, 24, 25 and 30, which is a sandstone, 18 x 15 x 10 ins. above ground, firmly set, properly marked and witnessed by a mound of stone, W. of cor. No bearing trees.

Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

T 18 N R 3 E | R 4 E S 24 | S 19 25 S 1920

Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pinyon. Undergrowth, dense oak brush, manzanita and catclaw. Good grass.

N. 0° 02' W., on a true line, bet. secs. 19 and 24(5克) Over mountainous land, thru heavy undergrowth, and scattering timber. Ascend 45 ft., over SW. slope.
2.92 Spur, slopes W. Descend 55 ft., over N. slope.
14.90 Gulch, course SW. Ascend 260 ft. over SW. slope to ‡

Sec. cor.

35.88 Road, brs. SE. and NW.

40.16 Intersect the original 2 sec. cor. of secs. 19 and 24, which is a sandstone, 14 x 12 x 3 ins. above ground, firmly set properly marked and witnessed by a mound of stone, W. of cor. No bearing trees. Alongside old stone, set an iron post, 5 ft. long, 1 in.

in diam., 26 ins. in the ground, for \frac{1}{2} sec. cor. of secs. 19 and 24, marked on brass cap

Resurvey of East bdy. of Township 18 North, Range 3 East. Chains S 24 T S 19 N. 0° 05' W., on a true line, bet secs. 19 and 24  $(N.\frac{1}{2})$ Over mountainous land, thru dense undergrowth and scattering timber. Ascend 108 ft., over S. slope. 14.83 Spur, slopes SW. Descend 25 ft., over NW. slope.
24.81 Gulch, course SW. Ascend 40 ft., over SE. slope, to
34.42 Same gulch, course SE. Ascend 105 ft., over S. slope, to
39.90 Intersect the original cor. of secs. 13, 18, 19, and 24,
which is a sandstone, 18 x 10 x 4 ins. above ground, firmly set, properly marked and witnessed by a mound of stone, W. of cor. No bearing trees.

Alongside old stone, set an iron post, 3 ft. long, 2 ins.
in diam., 24 ins. in the ground, for cor. of secs. 13,
18, 19 and 24, marked on brass cap M. BL T R 3 E | R 4 E S 13 | S 18 S 24 | S 19 1920 Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinyon and cedar.
Undergrowth, dense oak brush, manzanita and catclaw. Good grass. North, on a true line, bet. secs. 13 and 18 (S.1)

Over mountainous land, thru scattering timber and dense undergrowth. Ascend 650 ft., over steep broken SW. slope, to 16.50 Foot of cliffs, brs. NE. and SW. Ascend 125 ft., over SE. face of cliffs.

19.28 Top of same cliffs, at point of spur, sloping SW. Desc.

190 ft., over NW. face of cliffs, to

23.00 Foot of cliffs, brs. NE. and SW. Descend 50 ft., over NW. slope, to 40.12 Intersect the original 4 sec. cor. of secs. 13 and 18, which is a malpais stone, 8 x 8 x 6 ins. above ground, firmly set, properly marked and witnessed by a mound of stone, W. of cor. No bearing trees.
Alongside old stone, set an iron post, 3 ft. long, 1 in.
in diam., 26 ins. in the ground, for \$\frac{1}{2}\text{ sec. cor. of} secs. 13 and 18, marked on brass cap S 13  $\hat{1}$  S 18 Thence N. 0° 20' W., on a true line, bet. secs. 15 and 18( $N.\frac{1}{2}$ ) Over mountainous land, thru dense undergrowth and scat-tering timber. Descend 25 ft., over NW. slope. 4.40 Gulch, 20 lks. wide, course SW. Ascend 810 ft., over SW. slope, to 39.96 Intersect the original cor. of secs. 7, 12, 13 and 18, which is a sandstone,  $20 \times 18 \times 8$  ins. above ground, firmly set, properly marked and witnessed by a mound of stone, W. of cor., and by two bearing trees as follows: A cedar, 12 ins. in diam., S. 412° E., 103 lks.

dist., marked T 18 N R 4 E S-18 BT.

A cedar, 24 ins. in diam., N. 522 W., 50 lks.
dist., marked T 18 N R 3 E S-12 BT.

Resurvey of East bdy. of Township 18 North, Range 3 East.

Chains Alongside old stone, set an iron post, 3 ft. long, 2 insin diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass cap

Land, mountainous. Soil, rocky, 4th rate.

Timber, scattering pinyon and cedar.
Undergrowth, dense strub oak, manzanita and catclaw.
Good grass.

N. 0° 20' E., on a true line, bet. secs. 7 and 12(S.1)
Over mountainous land, thru scattering timber and dense
undergrowth. Ascend 50 ft., over SW. slope.

5.44 Ridge, brs. E. and W. Descend 240 ft., over N. slope.
29.62 Descend over NW. slope.

39.97 Intersect the original 4 sec. cor. of secs. 7 and 12, which is a sandstone, 16 x 12 x 10 ins. above ground, firmly set, properly marked and witnessed by two bearing trees as follows

A juniper, 20 ins. in diam., S. 18° E., 106 lks. dist., marked 5 7 BT.

A pine, 30 ins. in diam., S. 51° W., 150 lks. dist., marked 5 S 12 BT.

Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 4 sec. cor. of secs. 7 and 12. marked on brass can secs. 7 and 12, marked on brass cap

Thence N. 0° 17' E., on a true line, on W. bdy. of sec.  $7(N\frac{1}{2})$  Over mountainous land, thru scattering timber and dense undergrowth.

Descend 427 ft. over IW. slope, to

23.00 Gulch, course N. from SW., descend over steep broken E. slope, along the W. side of same gulch. Descend 187 ft. to

30.38 Intersect the original witness cor. to the cor. of secs. 1, 6, 7 and 12, which is a sandstone,  $18 \times 12 \times 6$  ins. above ground, firmly set properly marked and witnessed by a mound of stone, W. of cor.

Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, for witness corto cor. of secs. 6 and 7, and to cor. of secs. 1 and 12, marked on brass cap

A cedar, 30 ins. in diam., N. 67% W., 30 lks.
dist. marked W C T 18 N R 3 R S 1 BT.

This witness cor. is now 8.90 chs. S. 0° 17' W., from
true point for cor. of secs. 6 and 7 and 9.67 chs.,
S. 0° 15' W. from true point for cor. of secs. S. 0° 15' W. from true point for cor. of secs. 1 and 12, both of which are in inaccessible positions. 31.25 Triangulation point at top of cliffs, bearing NW. and SE.

Thence by triangulated measurement, as hereinbefore de-

Resurvey of East bdy. of Township 18 North, Range 3 Fast. Chai ns scribed. Over precipitous cliffs on W, side of gulch, course N. 39.28 True point for cor. of secs. 6 and 7, on face of cliffs, in inaccessible position. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinyon and cedar. Undergrowth, dense scrub oak, manzanita and catclaw. Good grass. From true point for cor. of secs. 6 and 7. N. 0° 04' W., on a true line, on W. bdy. of sec. 6( $5.\frac{1}{2}$ ) Over mountainous land, descend abruptly over NE. face of precipitous cliffs, on W. side of gulch, course N. Measurement by triangulation, hereinbefore described. 0.77 The true point for cor. of secs. 1 and 2 in inaccessible position. 32.07 Triangulation point at foot of cliffs. Enter gulch, course N. Thence along W. slope, on E. side of gulch. tinue measurement by chaining. Descend 110 ft. to 40.82 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, which is a sandstone, 18 x 8 x 6 ins., marked  $\frac{1}{4}$  on W. face, and firmly set in a mound of stone. No accessories. Alongside old stone, set an iron post, 5 ft. long, 1 in. in diam., 26 ins. in the ground, for 2 sec. cor. of secs. 1 and 6, marked on brass cap S 6 | S 1 1920 from which A juniper, 6 ins. in diam., brs. S. 312° W., 75 lks. dist., marked 1/2 S 6 BT.

Raise a mound of stone, 2 ft. base, 1/2 ft. high, W. of cor. Thence North, on a true line, bet. secs. 1 and 6(N.1)

Over mountainous land, thru dense undergrowth and scattering timber, over broken W. slope on E. side of gulch, course N. Descend 195 ft. to 11.48 Cross bottom of same gulch, with stream of water, 10 lks. wide, 1 in. deep, course NE. Descend 15 ft. over E. slope, to 13.77 Recross same gulch, course NW. Thence over broken W. slope, on E. side of same gulch, course N. Descend slightly, to 28.51 Intersect the original closing cor. of Ts. 18 N., Rs. 3 and 4 E., which is a sandstone, 15 x 12 x 4 ins. above ground, firmly set, properly marked and witnessed by a mound of stone, S. of cor. Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported in a mound of stone, for closing cor. of Ts. 18 N., Rs. 3 and 4 E., marked on brass cap T 19 N R 4 E S 32 S 1 | S 6 R 3 E | R 4 E T 18 N G- G This closing cor. is found to be in proper position on the E. half of S. bdy. of sec. 32, T. 19 N., R. 4 E., by resurvey of part of the S. bdy. of said Tp., as mereinafter described. Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pine and cedar.
Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

## Resurvey of part of South bdy. of Township 19 North, Range 4 Rast. The South bdy. of T. 19 N., R. 4 E., was surveyed by Andrew Barry, U. S. D. S. in 1902. No retracement or resurvey of the line is of record; however, when Edgar Chains C. Dietrich, U. S. D. S., surveyed the subdivision lines and W. bdy. of T. 18 N.; R. 4 E. in 1905, setting closing cors. all along the line for areas to the S., the original cors. were changed in designation and description to refer to areas N. of line only. Retracement for Resurvey. From the cor. of secs. 32 and 33, T. 19 N., R. 4 E., hereinafter described, West, on a random line, on S. bdy. of sec. 32. 6.85 Fall 4 1ks. N. of original closing cor. of Ts. 18 N., Rs. 3 and 4 E., hereinbefore described. Continue line and measurement. 40.65 Fell 26 lks. S. of the 2 sec. cor. of sec. 32, hereinafter described. True course and distance of E. half of S. bdy. of sec. 32, are therefore S. 89° 38' E., 40.65 chs. Thence West, on a random line on S. bdy. of sec. 52. 39.61 Fall 6 lks. N. of the cor. of secs. 31 and 32, hereinafter described. True course and dist. of W. 2 of S. bdy. of sec. 52, are therefore, N. 89° 55' E., 59.61 chs. From the cor. of secs. 31 and 32. West, on a random line, on S. bdy. of sec. 31. 39.98 Fall 8 lks. N. of the 2 sec. cor. of sec. 31, hereinafter described. True course and dist. of E. 2 of S. bdy. of sec. 31, are therefore, N. 89° 53' E. 39.98 chs. Thence West, on a random line, on S. bay. of sec. 31. 36.49 Fall 6 1ks. N. of the Sw. cor. of T. 19 N., R. 4 E., hereinafter described. True course and dist. of W. half of S. bdy. of sec. 31 are therefore, N. 89° 54' E., 36.49 chs. RESURVEY. The SW. cor. of Tp. 19 N., R. 4 E., was established by Andrew Barry, U. S. D. S. in 1902, as cor. of Ts. 18 and 19 N., Rs. 5 and 4 E., but was changed in 1903 by W. O. Secor, U. S. D. S. to cor. of Ts. 18 and 19 N., R. 4 E. The closing of the W. bdy. of T. 18 N., R. 4 E. by Edgar C. Dietrich, U. S. D. S. in 1905, changed this cor. to refer to T. 19 N., R. 4 E. only, but there was no appropriate change made in the marking and accessories of the cor.; therefore, find the cor. description as follows A sandstone, 18 x 14 x 10 ins. above ground, firmly set, marked with 6 notches on each of N. S. and E. edges, and witnessed by a mound of stone, E. of cor. No trace of the original bearing trees remain. Alongside old stone, set an iron post, 5 ft. long, 3 ins. in diam., 24 ins. in the ground, for SW. cor. of T. 19 N., R. 4 E., only marked on brass cap T 19 N T 19 N

S 31

1920

T-18 N R 3 E

R 3 E S 36

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Resurvey of part of South bdy. of Township 19 North, Range 4 East.
Chains
                 from which
                         A pine, 8 ins. in diam., brs. N. 25° E., 250 lks. dist., marked T 19 H R 4 E S 31 BT.
            Obliterate notches on S. edge of stone, move mound of
                 stone from E. to ME. of cor.
            N. 89° 54' E., on a true line, on S. bdy. of sec. 31(W.\frac{1}{2})
   Over mountainous land, thru scattering timber and dense undergrowth. Descend 20 ft., over E. slope.

2.18 Gulch, course S. Ascend 100 ft., over W. slope.

7.75 Spur, slopes S. Descend 110 ft., over E. slope.
 14.00 Gulch, course S. Ascend 60 ft., over W. slope.
20.96 Spur, slopes SE. Descend 100 ft., over E. slope.
26.57 Gulch, course S. Ascend 45 ft., over W. slope, to
29.66 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for 2 sec. cor. of sec. 2 only, marked on
               brass cap
                                               ₹ S 2
                                                1920
               from which
                         A pine, 8 ins. in diam., brs. S. 622° E., 55 lks. dist., marked 4 S 2 BT.
A pine, 14 ins. in diam., brs. S. 134° W., 78
lks. dist., marked 4 S 2 BT.
           Ascend 10 ft., over W. slope.
 31.25 Spur, slopes S. Descend 46 ft. over H. slope, to
 36.49 Intersect the ½ sec. cor. of sec. 31, which is a sand-
stone, 10 x 10 x 8 ins. above ground, firmly set,
marked 2 on N. face, and witnessed by two bearing
                 trees as follows
                         A pine, 10 ins. in diam., N. 67\frac{1}{2}^{\circ} W., 62 lks. dist., marked \frac{1}{4} S 51 BT.
                         A pine, 6 ins. in diam., S. 79° E., 40 lks. dist., marked $\frac{1}{2}$ S 6 BT.
           This cor. was originally \frac{1}{2} sec. cor. of secs. 6 and 31, but by the survey of W. bdy. of T. 18 N., R. 4 E.,
                 the designation of same was changed to $ sec. cor. of sec. 31 only, though it is evident from the above de-
                 scription that proper changes in the accessories have
                 not been made.
            Obliterate marks on SE. bearing tree, and alongside old
                 stone, 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 2 sec. cor. of sec. 31 only, marked on brass cap
                                                ½ S 31
1920
                 from which
           A pine, lo ins. in diam., brs. N. 55½° E., lll lks. dist., marked ¼ S 31 BT.

Raise a mound of stone 2 ft. base, l½ ft. high, N. of cor.
           Thence N. 89° 53' E., on a true line, on S. bdy. of sec. 31 (E.\frac{1}{2})
           Over mountainous land, thru scattering timber and dense
                 undergrowth.
           Descend 146 ft., over SE. slope.
 16.73 Gulch, course SE. Ascend 20 ft., over SW. slope. 17.70 Descend 22 ft. over SE. slope. 20.00 Enter creek bottom, brs.: NE. and SW.
 27.33 Dry channel of Sycamore Creek, 30 lks. wide, course SW.
            Continue across creek bottom.
 23.23 Point for closing cor. of secs. 1 and 2, T. 11 N., R. 3
E. This point falls in Sycamore Creek bottom, where
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it is impracticable to monument the closing cor.,

Resurvey of part of South bdy. of Township 19 North, Pange

Chains

therefore, establish witness cor. to said closing cor. at a point 57 lks. S. O° Ol' E., from the true cor. point as hereinafter described.

Continue line and measurement of E. 2 of S. bdy. of sec. Over creek bottom, brs. NE. and SW.

33.39 Leave creek bottom, and enter mountainous land. 46 ft. over NW. slope, to

39.98 Intersect the cor. of secs. 31 and 32, which is a malpais stone, 16 x 10 x 6 ins. above ground, firmly set, marked with 1 notch on W. edge, and 5 notches on E. edge and witnessed by mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., and two bearing trees as follows

A pine, lo ins. in diam., N. 28° E., 136 lks.

A pine, 10 ins. in diam., N. 28° E., 136 lks.

dist., marked T 19 N R 4 E S 32 BT.

A cedar, 16 ins. in diam., N. 172° W., 256 lks.

dist., marked T 19 N R 4 E S 31 BT.

This cor. was originally cor. of secs. 5, 6, 31 and 32,

but by the survey of W. bdy. of T. 18 N., R. 4 E.,

the designation was changed to cor. of secs. 31 and

52 only, though it is evident from the above description that proper alteration of the cor. has not been

Alongside old stone, set an iron post, 3 ft. long, 3 insin diam., 24 ins. in the ground for cor. of secs. 31 and 32 only, marked on brass cap

Move old mound of stone from W. to N. of cor. No other change required. Land, mountainous. Soil, rocky, 4th rate.

Timber, scattering cedar and pine.

Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

N. 89° 55' E., on a true line on S. bdy. of sec.  $32(W.\frac{1}{2})$ Over mountainous land, thru scattering timber and dense undergrowth. Asc. 120 ft. over NW. slope.

7.85 Spur, slopes N. Desc. 23 ft. over NE. slope. 10.70 Gulch, course N. Asc. 130 ft. over NW. slope. 20.00 Spur, slopes N. Desc. 100 ft. over NE. slope.

29.05 Gulch, course NW. Asc. 120 ft. over NW. slope to 33.33 Set an iron post, 3 ft. long, 1 in. in diam., 22 ins. in ground, to bed rock, supported in a mound of stone, for 1 sec. cor. of sec. 1 only, marked on brass cap

#### ₹SI 1920

from which

A cedar, 6 ins. in diam., bears S. 61° E., 48
lks. dist., marked ½ S 1 BT.

A pine, 10 ins. in diam., bears S. 88° W., 37
lks. dist., marked ½ S 1 BT.

Asc. 132 ft. over NW. slope to

39.61 Intersect the ½ sec. cor. of sec. 52, which is a sand-stone, 16 x 10 x 8 ins. above ground, firmly set, marked 2 on N. face, witnessed by a mound of stone, N. of cor., and one bearing tree, a pine 6 ins. in diam., N. 882° E., 141 lks. dist., marked 4 S 32 BT. This cor. was originally 2 sec. cor. of secs. 5 and 32, but by the survey of W. bdy. of T. 18 N., R. 4 E.,

Resurvey of part of South bdy. of Township 19 North, Range 4 Fast. Chains the designation was changed to 2 sec. cor. of sec. 32, only. No change in original marking or accessories was required, however. Alongside old stone, set an iron post, 3 ft. long, l in. in diam., 26 ins. in the ground, for 2 sec. cor., of sec. 32, marked on brass cap Thence S. 89° 38' E., on a true line, on S. bdy. of sec. 32(E 2) Over mountainous land, thru scattering timber and dense undergrowth. Ascend 40 ft. over NW. slope. 7.10 Spur, slopes N. Descend 80 ft., over broken NE., N., and NW . slopes, to 23.14 Spur, slopes NE. Descend 115 ft., over NE. slope. 29.96 Gulch, with stream of water, 10 lks. wide, 3 ins. deep, course N. Ascend 110 ft., over SW. slope, to Intersect the closing cor. of Ts. 18 N., Rs. 3 and 4 E., hereinbefore described. Continue line and measurement. Ascend 100 ft., over W. slope, to 40.65 Intersect the cor. of secs. 32 and 33, which is a limestone 10 x 6 x 5 ins. above ground, firmly set, marked with 2 notches on W. edge, and 4 notches on E. edge and witnessed by a mound of stone, N. of cor. No bearing trees. This cor. was originally cor. of secs. 4, 5, 32 and 33, but was changed to its present designation and description by Edgar C. Dietrich, U. S. S. in 1905, when he established the closing cor. of Ts. 18 N., Rs. 5 and 4 E. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pine. Undergrowth, dense scrub oak, manzanita and catclaw.

Good grass.

Resurvey of part of South bdy. of Township 19 North, Range 3 Rast

Chains The south boundary of T. 19 N., R. 3 E. was surveyed in 1903 by W. O. Secor, U. S. D. S., who established one set of cors. thereon referring to areas in T. 19 N., R. 3°E. only.

No retracement or resurvey of this line is of record.

#### Retracement for Resurvey.

From the original SE. cor. of T. 19 N., R. 3 E., here-

inafter described.

West, on a random line, on S. bdy. of sec. 36.

40.00 Intersect the original \$\frac{1}{2}\text{ sec. cor. of sec. 36, hereinaf-} ter described.

True course and dist. of E. 2 of S. bdy. of sec. 36 are therefore, East, 40.00 chs.

Thence

West, on a random line, on S. bdy. of sec. 36. 40.12 Intersect the original cor. of secs. 35 and 36, hereinafter described.

True course and dist. of W. 2 of S. bdy. of sec. 56, are therefore East, 40.12 chs.

West, on a random line on S. bdy. of sec. 35.
40.49 Fall 7 lks. S. of the original 4 sec. cor. of sec. 35, hereinafter described. True course and dist. of E. 2 of S. bdy. of sec. 35, are therefore East, 40.49 chs.

#### RESURVEY.

The original \$\frac{1}{4}\$ sec. cor. of sec. 35, T. 19 N., R. 3 E., is a sandstone, 18 x 15 x 6 ins., marked \$\frac{1}{2}\$ on N. face, firmly set in a mound of stone, and witnessed by one bearing tree, a yew, 12 ins. in diam., N. 50° W., 54 lks. dist., marked \$\frac{1}{4}\$ S 35 BT.

Alongside old stone, set an iron post, 5 ft. long, 1 in. in diam., 5 ins. in the ground to bedrock, supported in a mound of stone, for \$\frac{1}{4}\$ sec. cor. of sec. 35, marked on brass cap

marked on brass cap

S. 89° 54' E., on a true line, on S. bdy. of sec. 35 (E. $\frac{1}{2}$ ) Over mountainous land, thru scattering timber and dense undergrowth. Descend slightly in gulch, course E. 0.67 Leave gulch, course SE. from W. Thence over S. slope;

descend slightly to

4.54 Same gulch, course NE. Ascend 60 ft., over N. slope, to

9.26 Same gulch, course S. Ascend 140 ft., over SW. slope.

14.11 Spur, slopes S. Descend 80 ft., over SE. slope.

18.52 Gulch, course S. Ascend 36 ft., over SW. slope.

20.23 Spur, slopes S. Descend 66 ft., over SE. slope.

27.56 Gulch, course SW. Ascend 37 ft., over NW. slope, to 30.15 Set an iron post 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bed rock, supported by a mound of stone for closing cor. of secs. 3 and 4, marked on brass cap ,

Resurvey of part of South bdy. of T. 19 North, Range 3 Fast. Raise a mound of stone, 2 ft. base, 12 ft. high, S. of Chains Ascend 80 ft., over W. slope. Spur, slopes SE. Descend 53 ft., over E. slope, to 38.53 40.49 Intersect the original cor. of secs. 35 and 36, which is a sandstone 18 x 12 x 10 ins., marked with 1 notch on E. edge, and 5 notches on W. edge, and firmly set in a mound of stone. No accessories. Alongside cold stone, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 35 and 36, marked on brass cap T 19 N S 36 3 T 18 N R 3 E Raise a mound of stone, 2 ft. base, 12 ft. high, N. of Land, mountainous. Soil, rocky, 4th rate.
Timber, scattering pine and cedar.
Undergrowth, dense oak brush, manzanita and catclaw. Good grass. East, on a true line, on S. bdy. of sec. 36(W.1)

Over mountainous land, thru scattering timber and dense undergrowth. Descend slightly over E. slope, to 0.96 Ascend 80 ft., over SW. slope. 12.25 Spur, slopes SE. Descend 190 ft., over SE. slope.
28.82 Gulch, course SE. Ascend slightly to
29.69 Set an iron post, 5 ft. long, 1 in. in diam., 20 ins. in
the ground, supported in a mound of stone, for \$\frac{1}{4}\$ sec. cer. of sec. 3, marked on brass cap ± S 3 1920 from which A pine, 12 ins. in diam., brs. S. 7° E., 60 lks. dist., marked \$\frac{1}{4}\$ S 3 BT.

A cedar, 12 ins. in diam., brs. S. 15° W., 14

lks. dist., marked \$\frac{1}{4}\$ S 3 BT. Ascend 20 ft., over SW. slope, to 40.12 Intersect the original 4 sec. cor. of sec. 36, which is a sandstone,  $15 \times 12 \times 4$  ins., marked  $\frac{1}{4}$  on N. face, and firmly set in a mound of stone and witnessed by one bearing tree, a cedar, 10 ins. in diam., N. 323° E., 70 lks. dist., marked 2 S 36 BT.

Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the ground, supported in a mound

of stone, for \$\frac{1}{4}\$ sec. cor. of sec. 36, marked on brass cap

from which

A pine, 6 ins. in diam., brs. N. 423° W., 192 lks. dist., marked \$\frac{1}{4}\$ S 36 BT.

East, on a true line, on S. bdy. of sec. 36 (E. 2) Over mountainous land, thru scattering timber and dense Resurvey of part of South bdy. of Township 19 North, Range 3 East.

Chains undergrowth. Ascend 56 ft., over SW. slope.

14.88 Spur, slopes SE. Descend 100 ft., over E. slope.

19.62 Gulch, course S.

27.40 Gulch, course S. Ascend 15 ft., over SW. slope, to

27.40 Gulch, course S. Ascend 15 ft, over SW. slope, to 29.60 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, supported in a mound of stone, for closing cor. of secs. 2 and 3, marked on brass cap

T 19 N R 3 E
S 36
S 3 S 2
T 18 N R 3 E
C C
1920

from which

A pine, 8 ins. in diam., brs. S. 47° E., 204 lks. dist., marked T 18 N R 3 E S 2 CC BT.

A pine, 7 ins. in diam., brs. S. 19° W., 64 lks. dist., marked T 18 N R 3 E S 3 CC BT.

Ascend 30 ft., over SW. slope.

Spur, slopes SE. Descend 20 ft., over E. slope, to
40.00 Intersect the original SE. cor. of T. 19 N., R. 3 E.,
which is a sandstone 10 x 10 x 10 ins. above ground,
firmly set, marked with 6 notches on each of N. and
W. edges. and witnessed by one bearing tree

W. edges, and witnessed by one bearing tree
A pine, 12 ins. in diam., N. 783 W., 310 lks.
dist., marked T 19 N R 3 E 3 36 BT.

Alongside old stone, set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for SE. cor. of T. 19 N., R. 3 E., marked on brass cap

T 19 N R 3 E S 36 S 2 T 18 N R 3 E 1920

Raise a mound of stone, 2 ft. base, 12 ft. high, NW. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar and pine.

Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

Resurvey of part of E. bdy. of Township 19 North, Range 3 East. Chains That part of the East bdy. of T. 19 N., R. 3 E., situate bet. the SE. cor. of said Tp., and the SW. cor. of Tp. 19 N., R. 4 E., was surveyed in 1903 by W. O. Secor, U. S. D. S., and no retracement or resurvey of this part of the line is of record. Retracement for Resurvey. From the SW. cor. of T. 19 N., R. 4 E., hereinbefore described. South, on a random line on E. bdy. of T. 19 N., R. 3 E. Intersect the SE. cor. of T. 19 N., R. 3 E., hereinbe-9.85 fore described. True course and dist. of line are therefore North, 9.85 chs. RESURVEY. From SE. cor. of T. 19 N., R. 3 E., hereinbefore describ-`ed` North, on true line, on part of E, bdy. of sec. 36, T. 19 N., R. 3 E. Over mountainous land, thru scattering timber and dense undergrowth. Ascend gradually over E. slope of spur, sloping S. 9.85 Intersect the SW. cor. of T. 19 N., R. 4 E., hereinbefore described. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pine. Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

	20 Surve	ey of part of Subdivision lines of T. 18 N. R. 3 E.
	Chains.	•
	<b>3</b> - E	TION R 3E
		$\frac{\$11  \$12}{\$14  \$13}$
	The state of the s	1920
		Raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.
		Land, mountainous. Soil, rocky, 4th rate.
	-	Timber, scattering pinyon and cedar.
		Undergrowth, dense scrub oak, manzanita and catclaw Good grass.
	The state of the s	
	a construction of the section of the	
	40.00	Rast, on a random line, bet. secs.12 and 13. Set temp. 2 sec. cor.
		Owing to steep cliffs E.of this point, discontinue chaining, and triangulate as follows:
	<b>*</b>	Measure a base South 8.00 chs.dist.
	En la company de	Set flag on random line at top of cliffs.
		From S. end of base, flag brs. 11.09° .
		25'E. Included angles are 69°25',90°00' & RANDOM SECLIME?
		and 20°35', the sum of which is 180° 00'.
	4	Triangulated dist. on random line is 10 7 60 25 25
	Commercial	obtained by Tang. 69°25'x base or 2.66281 x 8.00=
		21.30 chs., which added to 40.00 chs. =
	61.30	Flag point of above described triangulation, continue
	79.70	line and measurement by chaining. Fall 2 lks.S. of the cor. of secs. 7,42,132
		and 18, on E. bdy. of Tp., hereinbefore described.
		Thence, S.89°59'W., on a true line, bet. secs. 12 and 13.
		Over mountainous land, thru. scattering timber and dense undergrowth. Descend 160 ft., over SW.slope, to
	18.40	Edge, of cliffs, brs.SE. and NW. Thence by triangulated measurement to
	39.70	Triangulation point, near base of cliffs.
	39.85	Continue line and measurement by chaining.  Set an iron post, 3 ft.long, 1 in. in. diam., 20 ins. in
		the ground, for & sec.cor., marked on brass cap,
		1 S 12
		\$\frac{1}{3}\frac{S}{12}\\ \frac{1}{3}\frac{1}{3}\\ \frac{1}{1920}\\
	0	Raise a mound of stone, 2 ft.base, 12 ft.high, N.of cor. Descend 118 ft., over W.slope, to
	43.28	Gulch, course SE. Thence over SE.slope, with slight change of elevation. to
	48.25	Gulch, course SE. Ascend 145 ft., over SE. slope.
	5 <b>3.70</b> 5 <b>7.</b> 60	Gulch, course SW. Ascend 235 ft., over SE.slope.
	70.30	Spur, slopes SW. Descend 160 ft. over W. and SW. slopes, to The cor, of secs. 11,12,13 and 14.
	1 1 2 1 2	Land, mountainous.
		Soil, rocky, 4th rate. Timber, scattering cedar and pinyon.
		Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.
,	•	
•	4	N.0°01'W., bet.secs.11 and 12. Over mountainous land, thru. scattering timber and dense
	10.08	undergrowth. Ascend 480 ft. over S.slope. Spur, slopes W.
	,	1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

Part of Subdivision lines of Township 18 North, Range 3

Chains

19.00

40.00

Discontinue chaining at this point, and triangulate across a deep ravine, course W. with steep sides broken by precipitous cliffs.

Leave flag at this point on line. From a point on line, on N. side of ravine, measure a hase, N. 50°39'E., 4.00 chs. dist. A longer base is impractica-

From NE. end of base, flag brs.S.7°15'W. Included angles are 49°24'; 7°16' and 123°20'; the sum of which is 180°00'.

Triangulated dist. on sec. line is obtained by sine 49°24'xbase or sine 7°lo'

 $\frac{.75927 \times 4.00}{.00}$  = 24.01 chs., which added to 10.08 chs. **.1**2649

the position of triangulation point on = 34.09 chs.,N.side of ravine.

(Approximate) Bottom of ravine, about 300 ft.deep, course

Triangulation point on top of spur, sloping W. Continue line and measurement by chaining. escend 35 ft., over 34.09 N.slope, to

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for \( \frac{1}{2} \), sec.cor., marked on brass cap,

> S11 | S12 1920

Raise a mound of stone, 2 ft. base, 1½ ft. high, W.of cor-Precipitous descent over cliffs N.of 4 sec.cor.renders chaining impracticable; therefore, triangulate as follows:

Set flag ahead on line at base of cliffs, from which a flag set at NE. end of the base described in the triangulation S.of the 4 sec.cor., brs.S.15° ' 21'E.

Included angles are, 15°20',108° 00' and 56°40', the sum of which is 180°00'.

Dist.on sec.line from previous triangulation point to the flag of this triangulation is obtained by

or  $\frac{.95106 \times 4.00}{.00} = 14.39$  chs., sine 108°00, x base sine 15°20' -26443

which, added to 34.09 chs. Flag point of above described triangulation. N. of this point is a deep ravine with precipitous cliffs on the N. side thereof, over which chaining will be impracticable; therefore, make another triangulation as fol-

> Measure a base, S.54° lo' E. COR. OF SECS. 112 10.00 chs.dist. Set flag ahead on line beyond

cliffs. From SE. and of base, flag brs.

N.13° 53' W. Included angles are, 40°23',125°

45' and 13°52', the sum of which is 180°00'. Dist.trian gulated on sec.line is obtained by

48,48

lows:

03,1

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Part of Subdivision lines of Township 18 North, Range 3 East.
Chains Triangulated dist. from S. end of base to flag "B" is
           obtained by
Secant 79° 48' x base or 5.64725 x 10.00 = 56.47 chs.
           Triangulated dist. from S. end of base to flag "C" is
                 obtained by sine 83° 03' x 56.47 or \frac{.99265 \times 56.47}{.99839} = 56.15 chs.
                which, added to 12.00 chs. gives position of flag "C" as being 10.00 chs. S. O° Ol' E. from a point on random
                line 68.15 chs. B.89°59'E.from cor.of secs.1,2,11 & 12.
           From flag "C"
N. 89° 59' E., on offset line, continuing measurement
                 from sec. cor.
 80.10 Fall 31 lks. S. of witness cor. to cor. of secs. 1 and 14,
                and to cor. of secs. 6 and 7, on E. bdy. of Tp., here-inbefore described, which is 9.67 chs., S. 0° 15' W., from point for cor. of secs. 1 and 12, and 8.90 chs. S. 0° 17' W., from point for cor. of secs. 6 and 7.
           As the offset line is 10.00 chs. S. of true position of random line, the falling of said random line is therefore 2 lks. N. of the cor. point.

The true course and dist. of line, bet. secs. 1 and 12
                are therefore West, 80.14 chs.
           From true point for cor. of secs. 1 and 12, on E. bay. of
                Tp.
           West, on true line, bet. secs. 1 and 12.
           Over mountainous land, thru scattering timber and dense undergrowth. Measurement by offset and triangulation
                as hereinbefore described. Ascend over broken cliffs,
 facing NE., on the W. side of a gulch, course N.

12.56 Flag point "B" of triangulation hereinbefore described,
on top of ridge, brs. N. and S. Descend over steep,
broken NW. slope.
           (Approximate)
                                   Bottom of deep ravine, course H.
           over steep broken NE. slope.
Flag point "A" of triangulation, hereinbefore described, from which, chain measurement West, 2.17 chs. to
 40.07 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ½ sec. cor., marked on brass cap
                                           ½ S 12
           Raise a mound of stone, 2 ft. base, 12 ft. high, N.of cor
           Thence by triangulated measurement. Continuing ascent
 over steep broken NE. slope.

Spur, slopes N. Triangulation point. Thence chaining measurement. Descend 260 ft., over NW. slope, to
 80.14 The cor. of secs. 1, 2, 11 and 12.
           Land, mountainous, with rocky cliffs.
           Soil, rocky, 4th rate.
           Timber, scattering cedar and pine. Undergrowth, dense scrub oak, manzanita and catclaw.
            Good grass.
                          N. 0° 01' W., on a true line, bet. secs. 1 and 2.
           Over mountainous land, thru scattering timber and dense
                undergrowth.
           On account of steep, broken cliffs chain measurement, is
           impracticable; therefore, triangulate as follows:

Measure a base N. 89° 59' E., 12.00 chs. dist. from cor. of secs. 1, 2, 11 and 12.

Set flag ahead on sec. line. From E. end of base, flag brs. N. 16° 44' W.

Included angles are, 73° 17', 90° 00' and 16° 43', the sum of which is £80° 00'.

Dist. triangulated on sec. line is obtained by tang. 73° 17' x base or 3.52965 x 12.00 = 39.96 chs.
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chs.

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Part of Subdivision lines of Township 18 North, Range 3 East.
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Chains Flag point of above described triangulation.

Thence continue measurement by chaining.

40.00 Set an iron post, 3 ft. long, 1 in in diam., 8 ins. in the ground to bedrock, supported in a mound of stone for 4 sec. cor., marked on brass cap

Raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor. Corner stands on top of small cliff.

Continue chaining.

Descend 420 ft., over cliffs, and broken NW. slope.

Set an iron post, 5 ft. long, 2 ins. in diam., 26 ins.
in the ground, for witness cor. to closing cor. of
secs. 1 and 2, T. 18 N., R. 3 E., marked on brass cap

T 19 N R 4 E S 31 T 18 N R 3 E 1920

Raise a mound of stone, 2 ft. base, 12 ft. high S. of cor.

68.65 Enter Sycamore Creek bottom, brs. NE. and SW.

Intersect the S. bdy. of T. 19 N., R. 4 E., 6.75 chs. S.

89° 53' W. of the reestablished cor. of secs. 31 and 32, hereinbefore described. True point for cor. falls in creek bottom, a place unsuitable for setting a monument. Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar and pinyon.

Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

From the cor. of secs. 11, 12, 13 and 14. West, on a true line, bet. secs. 11 and 14. Over mountainous land, thru scattering timber and dense undergrowth. Descend 390 ft., over SW. slope.

17.56 Gulch, course SW. Ascend 25 ft., over SE. slope.

20.00 Top of ascent. Descend 110 ft., over SE. slope.

28.14 Gulch, course S. Ascend 40 ft. over SE. slope.

Spur, slopes SW. Descend 40 ft., over SW. slope, to 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{5}{5}\frac{11}{14} 1920

from which

A cedar, 8 ins. in diam., brs. S. 45% W., 165 lks. dist., marked 4 S 14 BT.

A cedar, 10 ins. in diam., brs. N. 58° W., 188 lks. dist., marked ½ S 11 BT.

Descend 220 ft., over W. slope.

52.98 Gulch, course SW. Descend 35 ft., over S. slope, to 55.82 Same gulch, course NW. Ascend 150 ft., over NE. slope.

69.36 Spur, slopes NW. Descend 35 ft., over NW. slope, to 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bedrock, supported in a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap

Ŧ.		of Subdivision lines of Township 18 North Range 3 East. 25
Cr	nains.	T18N R 3E S10 S11 S15 S14 1920
	·	from which, A cedar, 8 ins. in diam., brs. N. 43 to E., 82 lks. dist., marked T18N R3E S11 BT. A pine, 7 ins. in diam., brs. S. 46 to E., 92 lks. dist.,
		marked T18N R3E S14 BT.  A cedar, 6 ins. in diam., brs. S. 49°W., 58 lks.dist.,  marked T18N R3E S15 BT.  A pine.14 ins. in diam., bears N. 45°W., 106 lks.dist.,
		marked TION RJE S10 BT.  Land, mountainous.  Soil, rocky, 4th rate.  Timber, scattering pinyon and cedar.  Undergrowth, dense scrub oak, manzanita and catclaw.  Good grass.
	9.66 26.23 29.96	N.0°01'W., bet. secs.10 and 11.  Over mountainous land, thru. scattering timber and dense undergrowth. Descend 250 ft., over NW.slope.  Gulch, course NW. Ascend 150 ft., over SW.slope.  Spur, slopes W. Descend 120 ft., over NW.slope.  Gulch, course NW. Thence over W.slope; no change in elevation to
	35.00 40.00	Descend 110 ft., over NW.slope, to Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for \$\frac{1}{2}\$ sec.cor., marked on brass cap.
	• • • • • • • • • • • • • • • • • • •	sio sii
		. 1920
	43.36	Raise a mound of stone, 2 ft.base, 1 ft.high, W. of cor.  Descend 104 ft., over NW.slope, to  Enter Sycamore Creek, 70 lks.wide, Some water in pools,  course SW.from N. Thence along creek bed.
	51.03 55.28 57.00 60.23	Leave creek bed, course S.from NW. Ascend 140 ft., over SW.slope. Spur, slopes NW. Descend 66 ft., over N.slope. Gulch, course NW. Ascend 112 ft., over SW.slope, to Top of cliffs, 20 ft. high, bearing NW. and SE. Ascend 35
	74.40 80.00	ft., over SW. slope.  Spur, slopes NW. Descend 130 ft., over NW. slope, to  Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in  the ground, for cor. of secs. 2,3,10 and 11, marked on brass cap,
	,	TL8N R3 E S 3 S 2 S10 S11 1920
		from which,  A pine, 10 ins. in diam., brs. S.31°E., 50 lks.  dist., marked Tl8N R3E S11 BT.  A pine, 8 ins. in diam., brs. S.593°W., 68 lks.  dist., marked T18 N R 3 E S10 BT.  Raise a mound of stone, 2 ft. base, 12 ft. high, W.of cor.  Land, mountainous.
		Soil, rocky, 4th rate. Timber, scattering pinyon and cedar, with sycamore along creek. Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.

Part, of Subdivision lines of Township 18 North Range 3 Chains. East, on a random line, bet. secs. 2 and 11. Set temp. 4 sec. cor. Gulch, course SW. On account of precipitous cliffs, it 40.00 42.20 is impracticable to chain measurement on random line E.of this point. Therefore, triangulate as follows: From temp.; sec.cor., measure a base

North, 10:00 chs.dist. Set flag on cor. of secs.1,2,11 and 12.

From temp. 2 sec. cor. flag brs. E. From temp. 4 sec. cor., flag brs. E. 4006 - 1400 - Included angles are 75°59', 14°01' and 90°00'. Triangulated dist. on random line is obtained by tang. 75°59'x base or 4.00582x10.00= 40.00 chs., which added to 40.00 chs.=
Flag point on the cor.of secs.1,2,11 and 12. 80.06 Thence, West, on a true line, bet. secs.2 and ll. Over mountainous land, thru. scattering timber and dense undergrowth. Descend over precipitous cliffs, facing N. and HW. Gulch, course SW. Ascend 20 ft., over SE. slope, to Set an iron post, 3 ft.long, 1 in. in diam., 25 ins. in the ground, for \$\frac{1}{4}\$ sec. cor., marked on brass cap, 1920 from which. A pinyon, 6 ins. in diam., brs. N. 372°E., 66 lks. dist., marked 4S 2 BT.

A pine, 10 ins. in diam., brs. S. 67° W., 7 lks. dist., marked 4S 11 BT. Ascend 75 ft., over SE. slope. Spur, slopes S. Descend 320 ft. over SW.slope. 47.20 Gulch, course NW. Ascend 40 ft., over broken NE.slope.to Spur, slopes NW. Descend 104 ft., over broken NW.slope, to The cor. of secs. 2,3,10 and 11. 60.00 75.74 Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pinyon. Undergrowth, dense scrub oak.manzanita and catclaw. Good, grass. N.0°01' W., on a true line, bet. secs.2 and 3.

Over mountainous land, thru. scattering timber and dense undergrowth. Descend 40 ft., over NW.slope.

Dry bed of Sycamore Creek, 70 lks.wide, course SW. Ascend 108 ft., over SE.slope. 5.87 Spur, slopes SE. Descend 155 ft., over NE. slope. Dry bed of Sycamore Creek, 100 lks. wide, course SE. Ascend 11.68 14.33 184 ft., over SW. slope.

Spur, slopes SW. Descend 130 ft., over NW. slope. 23.84 Dry bed of Sycamore Creek, 1 ch. wide, course SW. 35.45 40 ft., over SW. slope, to
Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in
the ground, to bed rock, supported in a mound of stone
for 2 sec.cor., marked on brass cap, 40.00 S 3 S 2 1920 from which,

A pine, 6 ins. in diam., brs. S. 794°E., 46 lks. dist. marked \$ 2 BT.

A cedar, 15 ins. in diam., brs.S. 284°W., 231 lks. marked 48 3 BT.

undergrowth.

Ascend 75 ft., over SE. slope.

2	8 Part	of Subdivision lines of Township 18 North, Range 3 East.	
	Chains.		
	5.93 6.90 9.50 18.79	Spur, slopes NE. Descend 100 ft., over N. slope to gulch. Cliff, 60 ft. high, brs. E. and W. facing N. Gulch, course E. Ascend 95 ft., over S. slope, to W. point of cliffs, 30 ft. high, bearing E. and W. Ascend 170 ft., over SW. slope.	
	30.95 40.00	Spur, slopes W. Descend 140 ft., over N. slope, to Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for \$\frac{1}{4}\$ sec. cor., marked on brass cap,	
		S 4 S 3 1920	
:		Raise a mound of stone, 2 ft.base, 1 ft.high, W.of cor.	
	40.95 48.52 58.61	Foot of descent, brs.E.and W. Ascend 116 ft., over SE. slope.  Spur, slopes SW. Descend 45 ft., over NW. slope, to Intersect the S. bdy. of T.19 N., R.3 E., 10.34 chs., N.89° .54'W. of the reestablished cor. of secs. 35 and 36, here— inbefore described. At point of intersection, set closing cor. of secs. 3 and 4, as here inbefore described in notes of resurvey of part of the S. bdy. of T.19 N., R.3 E.	
		Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pine and cedar. Undergrowth, dense scrub oak, manzanita and catclaw. Good grass.	Andrews and the second
		FINAL TEST OF YOUNG AND SONS TRANSIT NO. 8501.  Apr:18, 1920: I 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 a meridian established by Polaris observation proceed as follows:  In camp in SW. 2 of sec. 13, T. 18 N., R. 3 E., Gila and Salt River Base and Meridian, Arizona, in latitude 34° 56' N.; and longitude 112° 00' W., at 5 h. 49 m. a.m.; 1.m.t., I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground 5 chs. N.	e
		Azimuth of Polaris at eastern elongation = 1° 22' 63".  April 18, 1920: I lay off the azimuth of Polaris 1° 22' to the west, and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.  At 7 h. 30 m., a.m., l.m.t., I set off 34° 56' N. on the lat. arc; 10° 53' N. on the decl. arc; and determine a meridian with the solar, which I find to agree with the true meridian.  At app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl arc is 10° 56' N., which agrees with the computed declination of the sun.  At 4 h. 30 m., p.m., l.m.t., with the lat. arc unchanged, I set off 11° 00½' N. on the decl. arc; and determine a meridian with the solar which I find to agree with	
		the true meridian.	

Boundaries of the portion of Township 18 North, Range 3 East, surveyed under Group No. 104.

Latitudes, Departures, and Closing Errors.

:				-	-	,	
Line de	signated.	True bearing.	Dist.	Latitud N.	es.	Depart.	ures. W.
East bo	undary,	North, N.0°20'W. N.0°20'E. N.0°17'E. N.0°14' W. North	40.12 39.96 39.97 39.28 40.82 28.51	40.12 39.96 39.97 39.28 40.82		.23	.04
North t	oundary,	N.89°38'W. S.89°55'W. S.89°53'W. S.89°54'W. South, West, N.89°54'W.	33.80 339.61 339.49 36.85 80.12		•06 •08 •06 9•85		33.80 39.61 39.98 36.49 80.12
Subdivi Bour	sional dary•	S.0°02'E. East, S.0°01'E. East, S.0°01'E. East,	58.61 80.00 80.00 80.00 80.00		58.61 80.00 <b>80.0</b> 0	.03 80.00 .02 80.00 .02 80.00	
Converg	ency,						30.
		Totals,		228.66		240.4 <b>9</b>	240 <b>.69</b> 240.49
		Error in la		24	and surviving the surviving the surviving surv	and the second of the second second second of the second o	. 20

#### GENERAL DESCRIPTION.

The portion of T.18 N., R. 3 E. surveyed under this group is mountainous land, broken, with many cliffs. Secs.1, 2,11,12 and 13 are situate on the high slopes of the Cosmer Mountains, which break off abruptly into Sycamore Canyon. The subdivided part of the township is drained by Sycamore Creek, course SW., thru.secs.2 and 3, which does not flow in the dry season, but has water in pools. The soil is rocky sandstone formation, but supports a good growth of grass; however, a large portion of the township is too rough for grazing. The timber consists of scattering pine and cedar, but a dense undergrowth of oak, manzanita and catclaw covers the greater part of the township.

There are no settlers in this township, and no indication

of oil or mineral.

4--680

## FIELD ASSISTANTS.

## to Otis Ross, U. S. Surveyor

NAMES.	CAPACITY.
See Book "A"	
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6-2764

## CERTIFICATE OF UNITED STATES SURVEYOR.

I, Otis Ross , U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U. S. Surveyor General, for Group 104, Arizona,
bearing date of the15th day of October, 1919 , I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of the East boundary of
Township 18 North, Range 3 East, the South boundary of Township 19 North, Range 4
East, and the East and South boundaries of Township 19 North, Range 3 East, and
surveyed all those parts or portions of the Subdivision lines of
Township 18 North, Range 3 East,
of the Gila and Salt River
Base and Meridian, in the State of Arizona, which are represented in
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
resurveys and saidsurvey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U. S. Surveyor General for Group 104, Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey.
Place Lunian, Clashy.  Date 20029-1921-  U. S. Surveyor.
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Ariz. December 10, 1921
The foregoing field notes of the survey of the East boundary of Township 18 North, Range 3
East, part of the South boundary of Township 19 North, Range 4 East, and part of the
East and South boundaries of Township 19 North, Range 3 East, and of the survey of
part of the Subdivision lines of
Township 18 North, Range 3 East,
of the Gila and Salt River Base and Meridian,
in the State of Arizona,
executed by Otis Ross, U. S. Surveyor,
under his special instructions dated October 15,1919 for Group 104, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.
Offranco Softmeth
U. S. Surveyor General.  -Feertify that the foregoing transcript of the field notes of the above described surveys in
-L-coi.rul. mus. mus. mus. mus. mus. mus. mostor a mostor and and an accompanies and an accompanies and accompanies are accompanies and accompanies and accompanies and accompanies and accompanies and accompanies are accompanies and accompanies and accompanies and accompanies are accompanies and accompanies and accompanies and accompanies are accompanies and accompanies and accompanies are accompanies and accompanies and accompanies are accompanies and accomp
, has been correctly copied from the original notes on file in this office.