

3491

4-679

Book "E"

COMPLETED

FIELD NOTES

OF THE RESURVEY AND SURVEY OF

part of the Subdivision lines of

Township 18 North, Range 6 West,

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, 1919, issued by the United States Surveyor General to govern surveys included in Group No. 104, Arizona, which were approved by the Commissioner of the General Land Office, October 29, 1919, and Assignment Instructions dated November 7, 1919

Resurvey and Survey commenced March 6, 1920

Resurvey and Survey completed March 13, 1920

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1A

INDEX DIAGRAM.

Township _____, Range _____

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

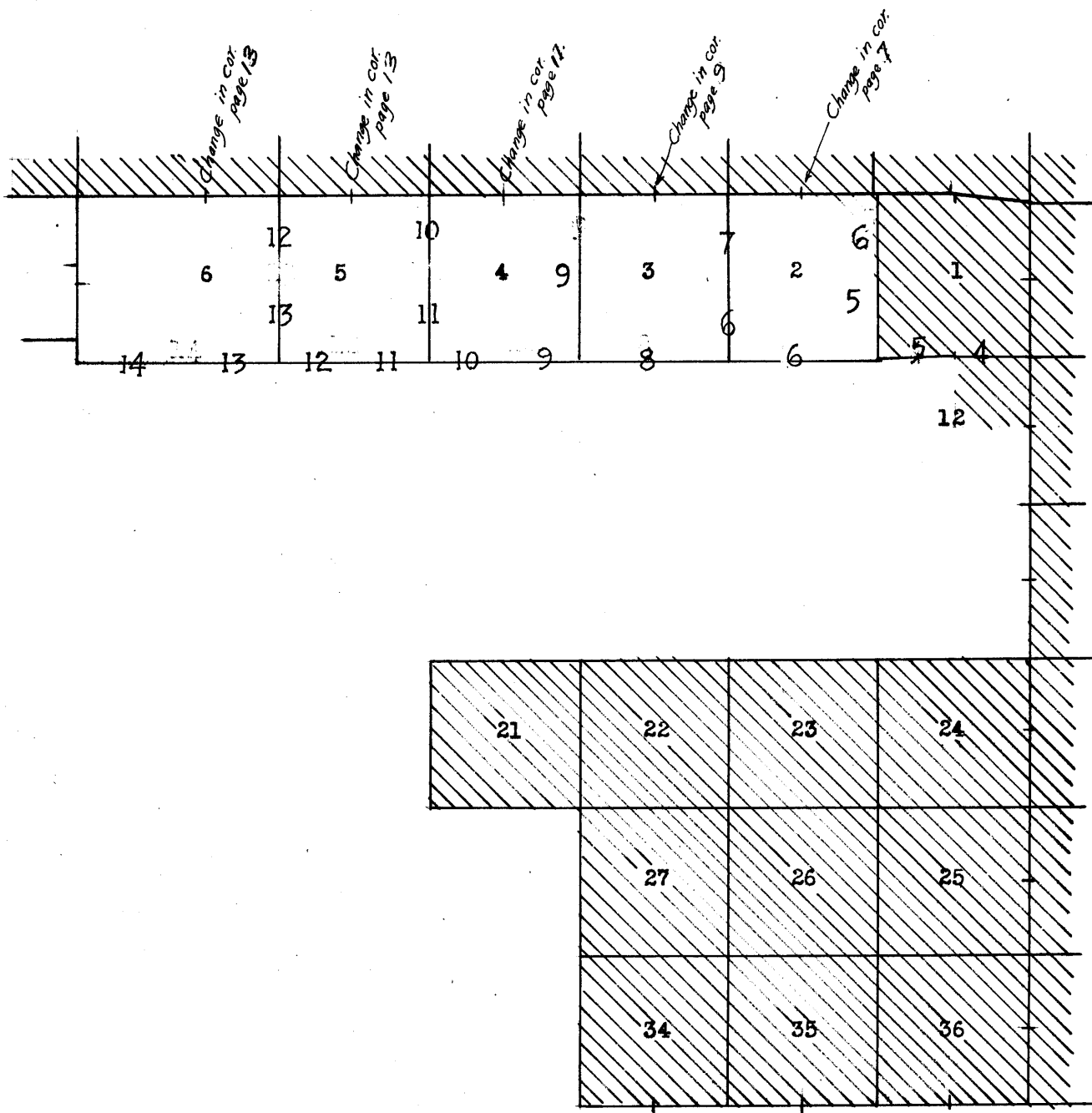
BOOK 3491


3491

Index diagram

Township 18 North, Range 6 West,

BOOK 3491



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

Date Diagram

Township 18 North, Range 6 West

Book "H"	6 3-13-20	3-12-20 5	3-11-20 4	3-9-20 3	3-9-20 2	3-8-20 1
	3-12-20	3-12-20	3-11-20	3-9-20	3-8-20	3-8-20

21	22	23	24
	27	26	25
	34	35	36

On the above diagram:-

red lines indicate surveys, and
blue lines indicate reserves.

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

Survey commenced March 6, 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 5, 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 NE. cor. of T. 18 N., R. 6 W., Gila and Salt River Base and Meridian; Arizona, in latitude $34^{\circ}59'N.$; and longitude $112^{\circ}50'W.$, at 8h. 35.4m. p.m., l.m.t., I observe 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 = $1^{\circ}21'51''$.

March 6, 1920: I lay off the azimuth of Polaris $1^{\circ}22'$ to the east, and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.

At 7h. 30m., a.m., l.m.t., I set off $34^{\circ}59'N.$ on the lat. arc; $5^{\circ}35'S.$ 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 $5^{\circ}32'S.$, which agrees with the computed declination of the sun.

At 4h. 30m. p.m., l.m.t., with the lat. arc unchanged, I set off $5^{\circ}26'S.$ 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 $1'30''$ 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.

4. Resurvey of a portion of Subdivision lines of T.18 N., R.6 W.

Chains.

The subdivision lines between secs.1 and 12, and 1 and 2, hereinafter described, were surveyed in 1882 by C. B. Foster, U.S.D.S. No retracement or resurvey of these lines is of record.

Retracement for Resurvey:

- 38.80 From the cor. of secs.1 and 2, on the N. bdy. of the Tp., hereinafter described, South on a random line, on W. bdy. of sec.1. Fall 70 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs.1 and 2, hereinafter described, True course and distance of N. $\frac{1}{2}$ of W. bdy. of sec.1, are therefore, N. $1^{\circ}02' E.$, 38.81 chs.
- 46.58 Thence, South, on a random line, on W. bdy. of sec.1. Fall 54 lks. W. of the original cor. of secs.1, 2, 11 and 12, hereinafter described. True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec.1, are therefore N. $0^{\circ}40' W.$, 46.58 chs.

-
- 38.85 From the original cor. of secs.1, 2, 11 and 12, hereinafter described, East, on a random line, bet. secs.1 and 12. Fall 270 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs.1 and 12, hereinafter described. True course and dist. of W. $\frac{1}{2}$ of line, bet. secs.1 and 12 are therefore S. $80^{\circ}01' W.$, 38.95 chs.
 - 40.48 Thence, East, on a random line, bet. secs.1 and 12. Fall 11 lks. S. of the original cor. of secs.1, 6, 7 and 12, on E. bdy. of Tp., hereinafter described. True course and dist. of E. $\frac{1}{2}$ of line, bet. secs. 1 and 12 are therefore S. $39^{\circ}51' W.$, 40.48 chs.

RESURVEY.

The original cor. of secs.1, 6, 7 and 12 on E. bdy. of Tp., is a stone, marked with 1 notch on N. edge, and 5 notches on S. edge, firmly set in ground, and witnessed by a mound of stone, N. of cor., and one bearing tree.

A cedar, 12 ins. in diam., N. $87^{\circ} W.$, 20 lks. dist., marked T18N Row S1 BT.

- 9.90 Thence, S. $89^{\circ}51' W.$, on a true line, bet. secs.1 and 12 (E. $\frac{1}{2}$). Over rolling land, thru. dense undergrowth and scattering timber. Ascend 23 ft., over NE. slope, to
- 25.39 Thence over nearly level land, to Wash, 10 lks. wide, course NE. Ascend 44 ft., over NE. slope, to
- 38.57 Wash, 6 lks. wide, course N. Ascend slightly over SE. slope, to
- 40.48 Intersect the original $\frac{1}{4}$ sec. cor. of secs.1 and 12, which is a sandstone 10x6 ins. above ground, firmly set marked $\frac{1}{4}$ on N. face, and witnessed by two properly marked bearing trees as follows:
 A cedar, 14 ins. in diam., N. $38\frac{1}{2}^{\circ} E.$, 51 lks. dist.,
 A cedar, 12 ins. in diam., South 22 lks. dist.
 Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 1 and 12, marked in brass cap,

$\frac{1}{4}$ S 1
S 12
1920

Thence,

Resurvey of portion of subdivision lines of T.18 N., R. 6 W.

Chains.

S.80°01'W., on a true line, bet. secs. 1 and 12 (W. $\frac{1}{2}$).
 Over mountainous land, thru. dense undergrowth and scattering timber. Ascend 280 ft., over SE. slope.
 11.85 Spur, slopes NE. Descend 160 ft., over NW. slope.
 36.20 Gulch, course NE. Ascend 12 ft., over NE. slope, to
 38.95 Intersect the original cor. of secs. 1, 2, 11 and 12, which is a limestone, 18x15x6 ins. above ground, firmly set, marked with 1 notch on E. edge and 5 notches on S. edge, 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. 1 and 2 only, marked on brass cap,

T18N	R6 W
S 2	S 1

1920

Destroy old mound of stone, and raise a new mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling and mountainous.
 Soil, rocky, limestone formation, 4th rate.
 Timber, scattering cedar, pinyon and juniper.
 Undergrowth, dense oak brush, greasewood and catclaw.
 Good grass.

N.0°40'W., on a true line, on W. bdy. of sec. 1 (S. $\frac{1}{2}$).
 Over mountainous land, thru. scattering timber and undergrowth. Descend 40 ft., over N. slope.
 10.18 Wash, 10 lks. wide, with stream of water 3 lks. wide, 2 ins. deep, course NE. Ascend 25 ft., over S. slope.
 23.10 Spur, slopes E. Descend 78 ft., over N. slope.
 27.45 Gulch, course E. Ascend 250 ft., over S. slope.
 35.58 Spur, slopes E. Descend 78 ft., over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 2 only, marked on brass cap,

$\frac{1}{4}$ S2

1920

from which,
 A cedar, 8 ins. in diam., brs. S. 49 $\frac{1}{2}$ ° W., 68 lks. dist., marked $\frac{1}{4}$ S 2 BT.
 A cedar, 8 ins. in diam., brs. N. 53° W., 45 lks. dist., marked $\frac{1}{4}$ S 2 BT.

Continue line and measurement, over mountainous land; thru. scattering timber and undergrowth.
 Descend 170 ft., over NE. slope, to
 46.58 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 2, which is a limestone, 18x12x10 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a mound of stone 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. No trace of original bearing trees.
 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 $\frac{1}{4}$ sec. cor. of sec. 1 only, marked on brass cap,

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

1920

from which,
 A cedar, 20 ins. in diam., brs. S. 11° E., 73 lks. dist., marked $\frac{1}{4}$ S 1 BT.
 A cedar, 14 ins. in diam., brs. N. 30 $\frac{1}{2}$ ° E., 24 lks. dist., marked $\frac{1}{4}$ S 1 BT.

Move old mound of stone, from S. to E. of cor.

6. Resurvey of portion of Subdivision lines of T.18 N., R. 6 W.

Chains.

Thence,
 N. $1^{\circ} 02' E.$, on a true line, on W. bdy. of sec. 1 (N. $\frac{1}{2}$).
 Over mountainous land, thru. scattering timber and under-
 growth. Descend 118 ft., over NE. slope.
 4.35 Gulch, course E. Ascend 227 ft., over S. slope.
 14.78 Spur, slopes W. Descend 52 ft., over NW. slope.
 24.30 Wash, 10 lks. wide, course SW. Ascend 124 ft., over S. slope.
 30.03 Spur, slopes W. Descend 25 ft., over NW. slope, to
 38.81 Intersect the cor. of secs. 1 and 2 on N. bdy. of Tp., rees-
 tablished by David W. Eaton, U.S.T. in 1918, which is an
 iron post, 3 ins. in diam., projecting 28 ins. above
 ground, properly marked on brass cap, firmly set in
 a mound of stone, and witnessed by a mound of stone, S.
 of cor., from which,
 A cedar, 12 ins. in diam., brs. S. $78\frac{1}{2}^{\circ} E.$, 30 lks.
 dist., marked T18N ROW S1 BT.
 A cedar, 16 ins. in diam., brs. S. $17\frac{1}{2}^{\circ} W.$, 70 lks.
 dist., marked T18N ROW S2 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering cedar, pinyon and juniper.
 Undergrowth, scattering oak brush, catclaw and greasewood.
 Good grass.

Survey of portion of Subdivision lines of T.18 N., R. 6 W.

From the reestablished cor. of secs. 1 and 2, originally
 cor. of secs. 1, 2, 11 and 12, hereinbefore described,
 West, on true line, on S. bdy. of sec. 2.
 Over mountainous land, thru. dense undergrowth and scat-
 tering timber. Descend 15 ft., over NW. slope.
 11.69 Wash, with stream of water, 3 lks. wide, 2 ins. deep, course
 NE. Ascend 175 ft., over SE. slope, to
 42.20 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., of sec. 2 only, marked on
 brass cap,

$$\frac{1}{4} S \quad 2$$
 1920
 From which,
 A pinyon, 12 ins. in diam., brs. N. $63\frac{1}{2}^{\circ} E.$, 94 lks.
 dist., marked $\frac{1}{4} S \quad 2$ BT.
 A cedar, 10 ins. in diam., brs. N. $33\frac{3}{4}^{\circ} W.$, 44 lks.
 dist., marked $\frac{1}{4} S \quad 2$ BT.
 Ascend 25 ft., over SE. slope, to
 44.88 Gulch, course SE. Ascend 280 ft., over E. slope.
 61.00 Spur, slopes S. Descend 60 ft., over W. slope.
 69.51 Gulch, course SE. Ascend 110 ft., over NE. slope, to
 82.20 Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in
 the ground, to bed rock, supported in a mound of stone,
 for cor. of secs. 2 and 3 only, marked on brass cap,

T18N	ROW
S 3	S 2

1920

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering cedar, pinyon and juniper.
 Undergrowth, dense oak brush, catclaw and greasewood.
 Good grass.

North, on true line, bet. secs. 2 and 3.
 Over mountainous land, thru. scattering timber and dense
 undergrowth. Ascend 95 ft. over S. slope.

Survey of portion of Subdivision lines of T. 18 N., R. 6 W.

Chains.

11.50 Ridge, brs. E. and W. Leave scattering and enter dense timber; descend 230 ft., over N. slope.
 24.48 Gulch, course NW. Ascend 23 ft., over SW. slope.
 31.07 Spur, slopes NW. Descend 100 ft., over NW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of secs. 2 and 3, marked on brass cap,

S 3 | S 2
 1920

from which,
 A cedar, 14 ins. in diam., brs. N. 12° E., 20 lks. dist., marked $\frac{1}{4}$ S 2 BT.
 A cedar, 22 ins. in diam., brs. N. 57° W., 14 lks. dist., marked $\frac{1}{4}$ S 3 BT.

Descend 30 ft., over N. slope.
 44.95 Gulch, course NW. Ascend 53 ft., over SW. slope.
 48.15 Spur, slopes NW. Descend 67 ft., over N. slope.
 59.70 Foot of descent. Ascend 57 ft., over S. slope.
 69.60 Spur, slopes W. Descend 300 ft. over NW. slope, to
 85.28 Intersect the original cor. of secs. 34 and 35, T. 19 N., R. 6 W., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, for secs. 34 and 35 only, and witnessed by two bearing trees as follows:
 A pine, 24 ins. in diam., N. 69° E., 90 lks. dist., marked T19N Row S35 BT.
 A pine, 22 ins. in diam., N. 17° W., 78 lks. dist., marked T19N Row S34 BT.

As this now becomes a corner of four sections, change the marking on brass cap, to read:

T19N | R 6W
 S34 | S35
 S 3 | S 2
 T18N
 1918

from which,
 A pine, 14 ins. in diam., brs. S. 49 $\frac{1}{2}$ ° E., 60 lks. dist., marked T18N Row S2 BT.
 A pine, 14 ins. in diam., S. 40 $\frac{3}{4}$ ° W., 47 lks. dist., marked T18N Row S3 BT.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scrub pine, cedar and juniper, scattering and dense as noted.
 Undergrowth, dense oak brush, catclaw and greasewood.
 Good grass.

The original $\frac{1}{4}$ sec. cor. of sec. 35, T. 19 N., R. 6 W. is an iron post, 1 in. in diam., projecting 22 ins. above ground, properly marked on brass cap, for sec. 35 only, and firmly set in a mound of stone, and witnessed by two bearing trees as follows:

A cedar, 10 ins. in diam., N. 23 $\frac{1}{2}$ ° E., 170 lks. dist., marked $\frac{1}{4}$ S 35 BT.
 A cedar, 8 ins. in diam., N. 40° W., 60 lks. dist., marked $\frac{1}{4}$ S 35 BT.

As this cor. now refers to secs. 2 and 35, change marking on brass cap, to read:

S 35
 S 2
 1918

Chains.

from which,

A juniper, 10 ins. in diam., brs. S. $60\frac{1}{2}^{\circ}$ E., 73 lks.
dist., marked $\frac{1}{4}$ S 2 BT.

From the cor. of secs. 2 and 3, hereinbefore described,
West, on a true line, on S. bdy. of sec. 3.

Over mountainous land, thru. dense undergrowth and scat-
tering timber. Ascend 77 ft., over SE. slope.

- 7.40 Spur, slopes S. Descend 390 ft., over W. slope.
26.64 Gulch, course N. Leave scattering and enter dense timber.
Ascend 315 ft., over steep E. slope, to
35.25 Top of cliffs, 50 ft. high, bearing N. and S. forming E.
rim of mesa. Thence over level mesa top.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the
ground, to bed rock, supported in a mound of stone, for
 $\frac{1}{4}$ sec. cor. of sec. 3 only, marked on brass cap,

$\frac{1}{4}$ S 3

1920

from which,

A pinyon, 10 ins. in diam., brs. N. 86° E., 54 lks.
dist., marked $\frac{1}{4}$ S 3 BT.

A cedar, 14 ins. in diam., brs. N. $23\frac{1}{2}^{\circ}$ W., 50 lks.
dist., marked $\frac{1}{4}$ S 3 BT.

- 55.40 Over nearly level top of mesa, brs. N. and S.
W. rim of mesa, brs. NE. and SW. Leave mesa, and enter moun-
tainous land. Descend 230 ft., over NW. slope.
60.05 Gulch, course NW. Ascend 223 ft., over NE. slope.
71.51 Point of spur, slopes N. Descend 10 ft., over NW. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in
the ground, to bed rock, supported in a mound of stone,
for cor. of secs. 3 and 4 only, marked on brass cap,

T18N | Row
S 4 | S 3

1920

from which,

A pinyon, 6 ins. in diam.; brs. N. $44\frac{1}{2}^{\circ}$ E., 34 lks.
dist., marked T18N Row S3 BT.

A pinyon, 8 ins. in diam.; brs. N. $80\frac{1}{2}^{\circ}$ W., 29 lks.
dist., marked T18N Row S4 BT.

Land, mountainous and level.

Soil, rocky, 4th rate.

Timber, pine, cedar and juniper, scattering and dense as
noted.

Undergrowth, dense oak brush, catclaw and greasewood.

Good grass.

- 40.00 North, on a random line, bet. secs. 3 and 4.
Set temp. $\frac{1}{4}$ sec. cor.
85.12 Intersect S. bdy. of T. 19 N., R. 6 W., 21 lks. W. of the orig-
inal cor. of secs. 33 and 34, which is an iron post,
3 ins. in diam., projecting 18 ins. above ground, prop-
erly marked on brass cap, for secs. 33 and 34 only,
firmly set in a mound of stone and witnessed by a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
As this now becomes a corner of four secs., change mark-
ing on brass cap, to read:

T19N | Row
S33 | S34
S 4 | S 3
T18N
1918

Portion of Subdivision lines of Township 18 North, Range 6 West, 19

Chains.	
	<p>from which, A pinyon, 6 ins. in diam., brs. S. 58$\frac{1}{2}$° E., 50 lks. dist., marked $\frac{1}{4}$ 18 N ROW S 3 BT. Move old mound of stone from N. to W. of cor. Thence S. 0° 08' W., on a true line, bet. secs. 3 and 4. Over mountainous land, thru. dense timber and undergrowth. Descend 390 ft., over SE. slope.</p>
26.77	<p>Pine Creek wash, with stream of water, 10 lks. wide, 6 ins. deep, course NE. Leave mountainous land, and enter level land along wash, brs. NE. and SW.</p>
34.26	Road, brs. NE. and SW.
35.00	<p>South edge of bottom land, brs. NE. and SW. Leave level, and enter mountainous land. Ascend 108 ft., over NW. slope, to</p>
45.12	<p>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 $\frac{1}{4}$ sec. cor., marked on brass cap,</p> <p style="text-align: center;"> $\frac{1}{4}$ S 4 S 3 1920</p>
	<p>from which, A cedar, 14 ins. in diam., brs. S. 49$\frac{1}{2}$° E., 32 lks. dist., marked $\frac{1}{4}$ S 3 BT. A pinyon, 8 ins. in diam., brs. S. 10$\frac{1}{2}$° W., 101 lks. dist., marked $\frac{1}{4}$ S 4 BT. Ascend 50 ft., over NW. slope.</p>
64.40	Point of spur, slopes W. Descend 57 ft., over SW. slope.
67.08	Fence, brs. SE. and NW.
68.08	Gulch, course NW. Ascend 195 ft., over NW. slope to sec. cor.
74.02	Fence, brs. NE. and SW.
85.12	<p>The cor. of, secs. 3 and 4. Land, mountainous and level. Soil, rocky, 4th rate. Timber, dense cedar and pinyon. Undergrowth, dense oak brush, catclaw and greasewood. Good grass.</p>

	<p>The original $\frac{1}{4}$ sec. cor. of sec. 34, T. 19 N., R. 6 W. is an iron post, 1 in. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, for sec. 34 only, and witnessed by two bearing trees, as follows: A pine, 14 ins. in diam., N. 28$\frac{1}{2}$° W., 38 lks. dist., marked $\frac{1}{4}$ S 34 3 T A juniper, 8 ins. in diam., N. 0$\frac{1}{4}$° E., 39 lks. dist., marked $\frac{1}{4}$ S 34 BT As this now refers to secs. 3 and 34, change marking on brass cap, to read:</p> <p style="text-align: center;"> $\frac{1}{4}$ S 34 S 3 1918</p>
	<p>from which, A pine, 20 ins. in diam., brs. S. 72° W., 14 lks. dist., marked $\frac{1}{4}$ S 3 BT.</p>

	<p>from the cor. of secs. 3 and 4, West, on a true line on S. bdy. of sec. 4. Over mountainous land, thru. dense timber and undergrowth. Descend 209 ft., over NW. slope.</p>
11.66	Gulch, course NE. Ascend 94 ft., over E. slope.
19.81	Wire fence, brs. N. and S.

10. Portion of Subdivision lines of Township 18 North, Range 6 West.

Chains.

- 23.59 Spur, slopes N. Descend 120 ft., over NW.slope.
- 34.01 Pine Creek Wash, with stream of water, 12 lks.wide, 3 ins. deep, course N. Ascend 25 ft., over SE.slope, to
- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec.cor. of sec.4 only, marked on brass cap,

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

from which,

A pine, 30 ins. in diam., brs. N.27 $\frac{1}{2}$ °E., 198 lks. dist., marked $\frac{1}{4}$ S 4 BT.

A pine, 30 ins. in diam., brs.N.43° W., 115 lks. dist., marked $\frac{1}{4}$ S 4 BT.

Ascend 349 ft., over SE. slope.

40.20 Fence, brs.NE. and SW.

40.80 Old road to cabin, brs,NE. and SW.

63.29 Spur, slopes NE. Descend 136 ft., over NW.slope, to

80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for cor.of secs.4, and 5 only, marked on brass cap,

T18N | R6 W
S 5 | S 4
1920

from which,

A pine, 10 ins. in diam., brs.N.70 $\frac{1}{2}$ °E., 55 lks. dist., marked T 18N R6W S4BT.

A pine, 6 ins. in diam., brs.N.73 $\frac{1}{2}$ °W., 78 lks. dist., marked T18N R6W S5 BT.

Land, mountainous.

Soil, rocky, 4th rate

Timber, dense pine, cedar and pjuniper.

Undergrowth, dense oak brush, catclaw and greasewood.

Good grass.

40.00 From cor.of secd.4 and 5,
N.0°08'E., on a random line, bet.secs.4 and 5.
Set temp. $\frac{1}{4}$ sec.cor.

85.23 Intersect the S. bdy.of T.19 N., R.6 W., at the original cor.of secs. 32 and 33, which is an iron post 3 ins. in diam., projecting 28 ins. above ground, properly marked on brass cap, for secs.32 and 33 only, and firmly set in a mound of stone, and witnessed by two bearing trees as follows:

A pinyon, 14 ins. in diam., N.80°W., 140 lks. dist., marked T19N R6W S32 BT.

A pinyon, 10 ins. in diam., N.87 $\frac{1}{2}$ °E., 15 lks. dist., marked T19N R6W S33 BT.

As this cor. now becomes cor.of secs.4, 5, 32 and 33, change marking on brass cap to read:

T19N | R6W
S32 | S33
S 5 | S 4
T18N
1918

Raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, W. of cor. Thence,

S.0°08'W., on a true line, bet. secs.4 and 5.

Over mountainous land, thru. dense timber and undergrowth. Descend 36 ft., over E.slope:

4.90 Saddle in ridge, bearing N.30°W. and S.30°E. Ascend 35 ft. to

12.05 Point of spur, slopes W. Descend 150 ft., over SW.slope.

19.22 Gulch, course SE. Ascend 10 ft., over NE.slope.

Portion of subdivision lines of Township 18 North, Range 6 West. 11

Chains.

- 23.00 Spur, slopes E. Descend 20 ft., over SE. slope.
- 29.70 Wash, 20 lks. wide, course SE. Ascend 120 ft., over NE. slope, to
- 45.23 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 5 | S 4
 1920

from which,
 A pine, 6 ins. in diam., brs. S. $46\frac{1}{2}^\circ$ E., 76 lks. dist., marked $\frac{1}{4}$ S 4 BT.
 A pinyon, 10 ins. in diam., brs. N. $14\frac{1}{2}^\circ$ W., 69 lks. dist., marked $\frac{1}{4}$ S 5 BT.

- Ascend 15 ft., over NE. slope, to
- 47.40 Gulch, course NE. Ascend 390 ft., over NW. slope.
- 59.00 Spur, slopes NE. Descend 274 ft., over SE. slope.
- 78.50 Gulch, course NE. Ascend 83 ft., over NW. slope, to
- 85.23 The cor. of secs. 4 and 5.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense pine, cedar and juniper.
 Undergrowth, dense oak brush, catclaw and greasewood.
 Good grass.

The original $\frac{1}{4}$ sec. cor. of sec. 33, T. 19 N., R. 6 W., is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, for sec. 33 only, and witnessed by two bearing trees as follows:

- A juniper 30 ins. in diam., N. $80\frac{1}{2}^\circ$ E., 123 lks. dist., marked $\frac{1}{4}$ S 33 BT.
- A cedar, 12 ins. in diam., N. $07\frac{1}{2}^\circ$ W., 61 lks. dist., marked $\frac{1}{4}$ S 33 BT.

As this cor. now refers to secs. 4 and 33, change marking on brass cap to read:

$\frac{1}{4}$ S 33
 S 4
 1918

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- From the cor. of secs. 4 and 5,
 West, on a true line, on S. bdy. of sec. 5.
 Over mountainous land, thru. dense timber and undergrowth.
 Descend 30 ft., over NW. slope.
- 3.17 Gulch, course NE. Ascend 430 ft., over E. slope.
- 18.90 E. rim of mesa, brs. N. and S. Thence over level top of same.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 5 only, marked on brass cap,

$\frac{1}{4}$ S 5
 1920

from which,
 A pine, 10 ins. in diam., brs. N. $70\frac{1}{2}^\circ$ E., 148 lks. dist., marked $\frac{1}{4}$ S 5 BT.
 A pine, 8 ins. in diam., brs. N. 02° W., 78 lks. dist., marked $\frac{1}{4}$ S 5 BT.

- Continue over level top of mesa.
- 61.39 W. rim of mesa, brs. N. and S. Leave level top of mesa, and enter mountainous land. Desc. 120 ft. over W. slope.

12. Portion of Subdivision lines of Township 18 North, Range 6 West.

Chains.

66.78 Gulch, course NW. Ascend 120 ft., over E. slope.
 76.10 Spur, slopes N. Descend 14 ft., over W. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
 the ground, to bed rock, supported in a mound of stone
 for cor. of secs. 5 and 6 only, marked on brass cap,

T18N	Row
S 6	S 5

1920

from which,

A juniper, 12 ins. in diam., brs. N. 38° E., 151 lks.
 dist., marked T18N Row S5 BT.
 A pine, 8 ins. in diam., brs. N. $84\frac{1}{2}^{\circ}$ W., 68 lks.
 dist., marked T18N Rows 6 BT.

Land, mountainous and level.

Soil, rocky, 4th rate.

Timber, dense pine, cedar and juniper.

Undergrowth, dense oak brush, catclaw and greasewood.

Good grass.

40.00
85.00N. $0^{\circ}08'$ E., on a random line, bet. secs. 5 and 6.Set temp. $\frac{1}{4}$ sec. cor.

Intersect S. bdy. of T. 19 N., R. 6 W., 2 lks. W. of the
 original cor. of secs. 31 and 32, which is an iron post,
 3 ins. in diam., projecting 12 ins. above ground, firmly
 set, properly marked on brass cap, for cor. of secs. 31
 and 32 only, and witnessed by two bearing trees as fol-
 lows:

A juniper, 40 ins. in diam., N. 13° E., 17 lks.
 dist., marked T19N Row S32 BT.

A pine, 16 ins. in diam., N. $40\frac{1}{2}^{\circ}$ W., 83 lks.
 dist., marked T19N Row S31 BT.

As this cor. now becomes cor. of secs. 5, 6, 31 and 32, change
 marking on brass cap, to read:

T19N	Row
S31	S32

S 6 | S 5

T18N

1918

from which,

A pine, 8 ins. in diam., brs. S. $15\frac{1}{2}^{\circ}$ E., 63 lks.
 dist., marked T18N Row S5 BT.

A juniper, 12 ins. in diam., brs. S. $25\frac{3}{4}^{\circ}$ W., 37 lks.
 dist., marked T18N Row S6 BT.

Thence

S. $0^{\circ}09'$ W., on a true line, bet. secs. 5 and 6.

Over mountainous land, thru dense timber and undergrowth.

Descend 30 ft., over SE. slope.

4.80 Gulch, course NE. Ascend 100 ft., over NE. slope.

13.13 Spur, slopes E. Descend 340 ft., over SE. slope.

40.80 Wash, 10 lks. wide, course SE. Ascend 64 ft., over NE.
slope, to

45.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground, to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 6 | S 5

1920

from which,

A pine, 6 ins. in diam., brs. S. $65\frac{3}{4}^{\circ}$ E., 34 lks.
 dist., marked $\frac{1}{4}$ S 5 BT.

Portion of Subdivision lines of Township 18 North, Range 6 West, 13

Chains.

A juniper, 12 ins. in diam., brs. N. $84\frac{1}{2}^\circ$ W., 14 lks. dist., marked $\frac{1}{4}$ S 0 BT.
 This cor. is on point of spur, sloping E. Descend 30 ft., over SE. slope.
 52.95 Wash, 30 lks. wide, course NE. Ascend 70 ft., over NW. slope.
 57.66 Point of spur, slopes W. Descend 24 ft., over SW. slope.
 61.02 Wash, 1 ch. wide, course NW. Ascend 200 ft., over NW. slope, to
 85.00 The cor. of secs. 5 and 6.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense pine, cedar and juniper.
 Undergrowth, dense oak brush, catclaw and greasewood.
 Good grass.

The original $\frac{1}{4}$ sec. cor. of sec. 32, T. 19 N., R. 6 W. is an iron post, 1 in. in diam., projecting 24 ins. above ground, properly marked on brass cap, for sec. 32 only, firmly set in a mound of stone, and witnessed by two bearing trees as follows:
 A cedar, 14 ins. in diam., N. 74° E., 122 lks. dist., marked $\frac{1}{4}$ S 32 BT.
 A juniper, 12 ins. in diam., N. 50° W., 55 lks. dist., marked $\frac{1}{4}$ S 32 BT.
 As this cor. now refers to secs. 5 and 32, change marking on brass cap, to read

$\frac{1}{4}$ S 32
 S 5
 1918

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

The original $\frac{1}{4}$ sec. cor. of sec. 31, T. 19 N., R. 6 W. is an iron post, 1 in. in diam., projecting 28 ins. above ground, properly marked on brass cap, for sec. 31 only, firmly set in a mound of stone, and witnessed by two bearing trees as follows:

A juniper 30 ins. in diam., N. 28° E., 58 lks. dist., marked $\frac{1}{4}$ S 31 BT.
 A pine, 10 ins. in diam., N. 52° W., 45 lks. dist., marked $\frac{1}{4}$ S 31 BT.

As this corner now refers to secs. 6 and 31, change marking on brass cap to read:

$\frac{1}{4}$ S 31
 S 6
 1918

from which,

A pine, 8 ins. in diam., brs. S. $84\frac{1}{2}^\circ$ W., 80 lks. dist., marked $\frac{1}{4}$ S 0 BT.

From corner of secs. 5 and 6, West, on a true line, on S. bdy. of sec. 6. Over mountainous land, thru. dense timber and undergrowth. Descend 163 ft., over NW. slope.

14. Portion of Subdivision lines of Township 18 North Range 6 West.

Chains.

7.35 Gulch, course N. Ascend 194 ft., over E. slope.
 16.02 E. edge of flat topped ridge, brs. N. and S. Thence over top of ridge.
 24.00 W. edge of top of same ridge, brs. N. and S. Leave flat topped ridge. Descend 75 ft. over W. slope.
 29.93 Gulch, course N. Ascend 57 ft., over E. slope.
 37.40 Spur, slopes N.
 Descend 10 ft., over W. 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. for $\frac{1}{4}$ sec. cor. of sec. 6 only, marked on brass cap,

$\frac{1}{4}$ S 6

1920

from which,

A pine, 10 ins. in diam., brs. N. 89° E., 25 lks., dist., marked $\frac{1}{4}$ S 6 BT.

An oak, 8 ins. in diam., brs. N. $34\frac{3}{4}^\circ$ W., 59 lks. dist., marked $\frac{1}{4}$ S 6 BT.

Descend 25 ft., over W. slope.

41.65 Gulch, course N. Ascend 16 ft., over E. slope.

49.94 Spur, slopes N.

Descend 24 ft. over W. slope.

54.92 Gulch, course N.

Ascend 46 ft., over E. slope.

64.90 E. rim of mesa, brs. N. and S. Thence over level top of mesa.

101.60 Fence, brs. S. 20° E. and N. 20° W.

104.80 A point 5.23 chs. south of the cor. of secs. 1 and 12, fractl.

T. 18 N., R. 7 W., described in Book "F," or 85.23

chs. S. of the cor. of Ts. 18 and 19 N. Rs. 6 and 7 W.

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 6 and 7, marked on brass cap,

	T18N	
T18N	S 6	CC
R 7W	S 7	
S12	Row	

1920

from which,

A pine, 6 ins. in diam., brs. N. $23\frac{1}{2}^\circ$ E., 106 lks. dist., marked T18N Row S6 CC BT.

A pine, 15 ins. in diam., brs. S. $58\frac{1}{2}^\circ$ E., 17 lks. dist., marked T18N Row S7 CC BT.

Land, mountainous and level.

Soil, rocky, 4th rate

Timber, dense pine, cedar and juniper.

Undergrowth, dense oak brush, catclaw and greasewood.

Good grass.

The continued satisfactory adjustment of the solar apparatus during the survey of this township is indicated from field tests as described in Book "F."

Boundaries of the portion of Township 18 North,
Range 6 West, surveyed under Group No.104.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional boundary,	East,	427.00			427.00	
	N.0°40'W.	40.58	40.58			.54
	N.1°02'E.	38.81	38.80		.70	
North boundary,	West,	426.95				426.95
West, boundary,	South,	85.23		85.23		
Convergency,						.07
<u>Totals.</u>			85.38	85.23	427.70	427.56
			85.23		427.56	
<u>Error in latitude,</u>			.15			
<u>Error in departure,</u>					.14	

GENERAL DESCRIPTION.

The portion of Township 18 North, Range 6 West, surveyed under this assignment lies on high mountains, covered with a heavy growth of pine, cedar and juniper timber, and a dense undergrowth of oak brush, catclaw and greasewood.

The soil is a rocky limestone formation, but supports a good growth of grass.

Cienega Springs rise near the center of sec.1. A ranch house is located near the springs, with about 20 acres in cultivation, which is irrigated with water from these springs. This place is owned by the "Double O" Cattle Company.

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 the 15th 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 Instructions, and the laws of the United States, ~~surveyed~~ **resurveyed and** surveyed all those parts or portions of the Subdivision lines of

Township 18 North, Range 6 West,

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 **resurvey and** 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 104, Arizona

and in the specific manner described in the field notes, and that the foregoing are the original field notes of **resurvey and** such survey.

Place Jamez, Alaska
Date Nov 29 1921

Otis Ross
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. December 10, 1921

The foregoing field notes of the **resurvey and** survey of part of the Subdivision lines of

Township 18 North, Range 6 West,

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 **resurveys and** surveys they describe, are hereby approved.

Frank D. Frost
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.~~