

3209

Book "H."

4-679

BOOK 3209

FIELD NOTES

OF THE SURVEY OF

PORTION OF SOUTH BOUNDARY,

PART OF SUBDIVISION LINES,

RETRACEMENT OF

PART OF SUBDIVISION LINES,

RESURVEY OF

PART OF SOUTH BOUNDARY, and

PART OF SUBDIVISION LINES,

ALL OF TOWNSHIP 20 NORTH, RANGE 10 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

A. PARKER WARNER,

U. S. Transitman,

with corrections by Otis Rosa, U.S. Surveyor,

~~In the capacity of U. S. Surveyor~~, under instructions dated February 20, 1915, & S.S. I., dated Sept. 15, 1919,

issued by the United States Surveyor General to govern surveys included in Group No 50, which were approved by the Commissioner of the General Land Office, March 2, 1915, and Sept. 29, 1919.

Survey - Retracement and ReSurvey commenced April 13, 1916.

Survey - Retracement and ReSurvey completed April 19, 1916.

Executed under Assignment
Instructions dated Feb. 21, 1916, and Nov. 7, 1919.
Corrections made Nov. 17, 1919.

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1A

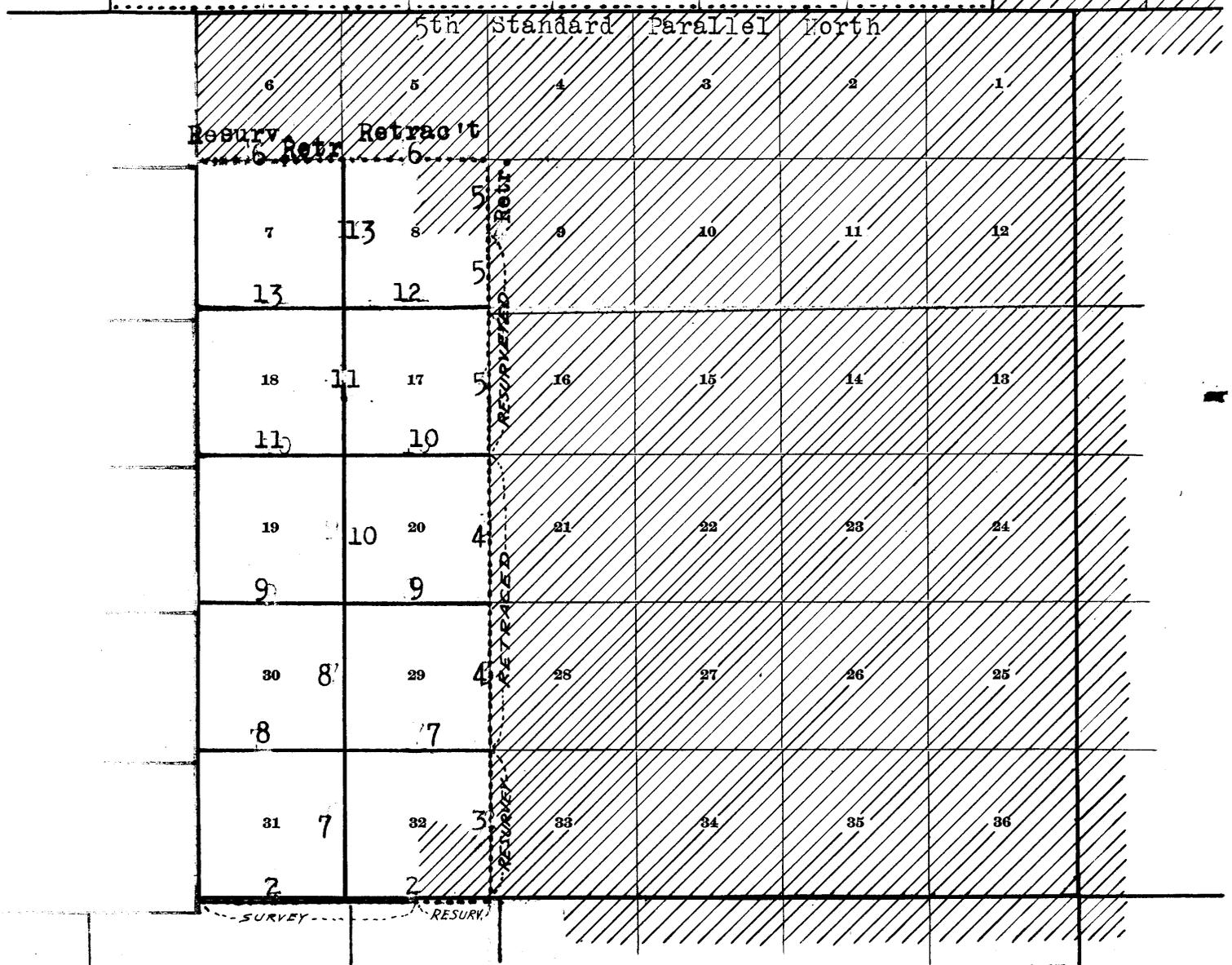
3209
Book "H."

Group 50----Arizona.

BOOK 3209

INDEX DIAGRAM.

Township 20 North, Range 10 West.



- Surveyed under this group--notes in this book. 3209
- Resurveyed or retraced under this group--notes in this book. 3209
- Surveyed under this group--notes in Book G. 3208
- Resurveyed under this group--notes in Book G. 3208
- Surveyed under this group--notes in Book I. 3210
- Surveyed under this group--notes in Book L. 3213
- Surveyed under current Group 51.
- Resurveyed under current Group 51.
- Previously accepted surveys. *Area surveyed as per accepted plats on file.*

Chains.

Retracements, Resurveys and Surveys hereinafter described, executed on dates shown on diagram on page 15 of this book, by A. Parker Warner, U.S. Transitman, using Young & Sons' light mountain transit No. 8526.

The instrument used is described, with record of approval by the assistant supervisor of surveys for Arizona, and California, and field tests in Book "E" of this group. The adjustments frequently examined and maintained throughout the work by comparison of the results of solar observations with true meridians determined by observations on Polaris.

The mean magnetic declination is 15° E.

November 17, 1919, Otis Ross, U.S. Surveyor, makes corrections of Transitman Warner's boundaries of sec. 8, so as to preserve the original area of the NE. quarter of the section, as near as possible, and in accordance with the instructions from the surveyor general, dated Sept. 15, 1919.

In this township, Surveyor Ross did not rechain any of the lines, but set new cors. based upon the records of Transitman Warner, and no topographical features were measured by Surveyor Ross.

In the following notes, all measurements, corner descriptions, and record of destruction of cors. resulting from Surveyor Ross's corrections, are preceded by the initials "O.R." In the execution of these corrections, and of those in Ts. 18 N., Rs. 9 and 10 W., and T. 19 N., R. 10 W., the instrument used is a Young and Son's solar transit No. 8501.

The horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of latitude and declination arcs. The instrument was approved, subject to satisfactory field tests, by Assistant Supervisor of Surveys for District No. 5 on Nov. 7, 1919. A description of field test of same is described below.

All measurements were made with a 5 chain steel tape, properly tested and adjusted, and all slope measurements were reduced to horizontal by clinometer readings.

Nov. 16, 1919.

At camp, near S. bdy. of sec. 4, T. 20 N., R. 10 W., lat. 35° 08'; longitude, 113° 21' W., at 3h., 52m. a.m. l.m.t. observe Polaris at western elongation, in accordance with the Manual of Surveying Instructions, and turn off the azimuth of Polaris, 1° 22' to the east, and mark the meridian thus determined by a tack driven in a stake set firmly in the ground, 5 chs. N. of instrument.

At 9h. 0m. a.m., l.m.t., set off 35° 08' on the lat. arc; 18° 34' S. on the decl. arc, and determine a meridian with the solar. The meridian thus determined coincides with the meridian established by observation on Polaris.

At 3h. 0m. p.m., l.m.t., set off 35° 08' on the lat. arc; 18° 37½' S. on the decl. arc, and determine a meridian with the solar. The meridian thus determined coincides with the meridian established by observation on Polaris.

The above described test demonstrates that the adjustment of the transit and solar attachment is satisfactory.

Resurvey of part of S. bdy. of Township 20 North, Range 10 West.

From SE. cor. of T. 20 N., R. 11 W., described in Book "G," a random line run E. falls 5.90 chs. S. of original cor. of secs. 4, 5, 32 and 33 on S. bdy. of T. 20 N., R. 10 W., from which falling it is evident that a closing cor. will be required on E. bdy. of T. 20 N., R. 11 W. for Ts. 19 and 20 N., R. 10 W.,

The original cor. of secs. 4, 5, 32 and 33 is a granite stone 10x8x8 ins. above ground, firmly set, marked with 4 notches on E. edge, and 2 notches on W. edge, and witnessed by a mound of stone 2 ft. base, 1½ ft. high, W. of cor. This cor. later changed to refer to secs. 32 and 33 only,

2. Resurvey of part of South bdy. of Township 20 North, Range 10 West.

Chains.

- as described in Book "L."
 Thence West, on true line, on S. bdy. of sec. 32 (E. $\frac{1}{2}$).
 Over mountainous land, thru scattering timber and dense undergrowth. Descend.
- 14.60 Wash, 60 lks. wide, course SE. Ascend 200 ft.
 - 32.80 Top of spur, sloping SE. Descend 73 ft. to $\frac{1}{4}$ sec. cor.
 - 39.66 The original $\frac{1}{4}$ sec. cor. of secs. 5 and 32, a granite stone, 18x8x8 ins. above ground, firmly set, properly marked and witnessed, brs. S. 17 lks. dist.
- The area S. of line, and the Tp. bdy. W. of this $\frac{1}{4}$ sec. cor. is unsurveyed, but the SE. quarter of sec. 32 is accepted as surveyed; therefore, to protect the area of said quarter section, destroy all trace of this cor., and at
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 5 and 32, marked on brass cap,

$\frac{1}{4}$ S 32
 S 5
 1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. This cor. later changed to refer to sec. 32 only, as described in Book "L."
 Land, mountainous. Soil, rocky, 4th rate.
 Timber, scattering cedar.
 Undergrowth, scrub oak and cedar, and cactus.
 Poor grass.

Survey of part of S. bdy. of Township 20 North, Range 10 West.

- From reestablished $\frac{1}{4}$ sec. cor. of secs. 5 and 32, hereinbefore described,
 West, on true line, on S. bdy. of sec. 32 (W. $\frac{1}{2}$).
 Over mountainous land, thru scattering undergrowth. Desc. 20 ft.
- 11.00 Wash, course SE. Ascend 410 ft.
 - 40.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T20N R10W
 $\frac{1}{4}$ S31 | S32
 S 6 | S 5
 1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. This cor. later changed to refer to secs. 31 and 32 only, as described in Book "L."
 Land, mountainous. Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub oak and cedar, and cactus. Poor grass.

- West, on S. bdy. of sec. 31.
 Over brokenland, thru scattering timber, and dense undergrowth. Ascend 90 ft. on NE. slope.
- 8.55 Spur, sloping SE. Descend 100 ft. on W. slope.
 - 14.50 Small draw, course S.
 - 16.50 Top of spur, sloping S. 20° W.
 - 40.00 On spur, sloping S.
- Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 6 and 31, with brass cap, marked

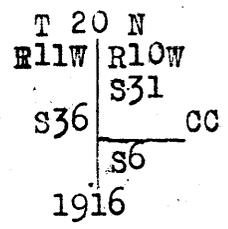
$\frac{1}{4}$ S 31
 S 6
 1916

- and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. This cor. later changed to refer to sec. 31 only, as described in Book "L."
- 42.00 Wash, course S. 20° W. Ascend 300 ft.
 - 63.30 Top of spur, projecting S. Descend 330 ft.

Survey of part of South bdy. of Township 20 North, Range 10 West. 3

Chains.
78.30

Intersect E. bdy. of Tp. 20 N., R. 11 W., 5.90 chs. N. of the SE. cor. thereof, described in Book "G."
At point of intersection,
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of Ts. 19 and 20 N., Rs. 10 W., with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scrub cedar.
Undergrowth, oak brush, crucifixion thorn and scrub cedar.
Grass, poor.

Retracement and Resurvey of portion of Subdivision Lines of Township 20 North, Range 10 West.

RESURVEY.

From the original cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., hereinbefore described,
N. 0° 11' W. on true line, on W. bdy. of sec. 33 (S. ½).
Over rolling and broken hills, thru scattering timber and undergrowth. Ascend 80 ft.

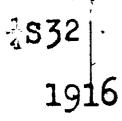
5.90
31.70
39.53

Spur, sloping W. Descend 175 ft.
Wash, course SW. Ascend 150 ft. on SE. slope.
Intersect original ¼ sec. cor. of secs. 32 and 33, which is a porphyry stone, 24x20x18 ins. above ground, firmly set, marked "1/4" on W. face, and witnessed by mound of stone, 2-ft. base, 1½ ft. high, W. of cor. No bearing trees. Change this cor. to refer to sec. 33 only, by marking "1/4" on E. face of stone, obliterating marking on W. face, and moving mound of stone from W. to E. of cor.

N. 0° 3' E., on true line on W. bdy. of sec. 33 (N. ½).
Over rolling land, thru scattering undergrowth.
Ascend on SE. slope.

.55

40.08½ chs. northerly from cor. of secs. 4, 5, 32 and 33, or midpoint of E. bdy. of sec. 32),
Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 32 only, with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Ascend 140 ft.

19.80
35.80
40.64

Low spur, sloping SE.
Small wash, course S. 20° E. Thence along SW. slope.
Intersect the original cor. of secs. 28, 29, 32 and 33, which is a granite stone, 12x10x4 ins. above ground, firmly set, marked with 1 notch on S. edge, and 4 notches on E. edge, and witnessed by mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No bearing trees.

Land, rolling and broken hills.

4. Retracement & Resur. of part of subdivision of T.20N.R.10 W.

Chains.

Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, crucifixion thorn and scrub oak.

RETRACEMENT.

N.0°13'E. on true line, bet. secs. 28 and 29 (S. $\frac{1}{2}$).
 Over rolling and broken hills, thru scattering timber and undergrowth.

Ascend gradually 140 ft.

23.90 Spur, sloping SE. Thence on E. slope.

32.00 Descend 125 ft.

39.96 Intersect original $\frac{1}{4}$ sec. cor. of secs. 28 and 29, which is a granite stone, 10x10x4 ins. above ground, firmly set, marked "1" on W. face, and witnessed by mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

N.0°03' E., on true line, bet. secs. 28 and 29 (N. $\frac{1}{2}$).

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

.20 Small draw, course E.

4.00 Spur, sloping NE. Descend 110 ft.

13.30 Gulch, course E. Ascend 75 ft. on S. slope.

17.65 Point of spur, from N. Descend 120 ft.

21.20 Wash, 80 lks. wide, course SE. Descend 120 ft.

23.57 Same wash, course SW. Ascend 100 ft. on SE. slope.

30.40 Point of spur, sloping E. Descend 75 ft.

35.20 Same wash, course SE.

39.90 Intersect original cor. of secs. 20, 21, 28 and 29, which is a granite stone, 24x10x8 ins. above ground, firmly set, marked with 2 notches on S. edge, and 4 notches on E. edge, and witnessed by mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

Land, broken, rolling and mountainous.

Soil, rocky, 4th rate.

Timber, cedar.

Undergrowth, scrub oak and catclaw.

N.0°02'E. on true line, bet. secs. 20 and 21 (S. $\frac{1}{2}$).

Over rolling land, thru scattering timber and dense undergrowth. Ascend SW. slope.

29.60 Low spur, sloping E., 110 ft. above sec. cor. Descend 110 ft. on N. slope.

37.70 Wash, course E. Ascend 50 ft. on S. slope.

40.14 Intersect original $\frac{1}{4}$ sec. cor. of secs. 20 and 21, which is a conglomerate stone, 10x8x6 ins. above ground, firmly set, marked "1" on W. face, and witnessed by mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

N.0°02' W., on true line, bet. secs. 20 and 21 (N. $\frac{1}{2}$).

Over mountainous land, thru scattering timber and undergrowth. Ascend 280 ft. on S. slope.

33.60 Top of spur, sloping E. Descend 70 ft.

39.82 Intersect original cor. of secs. 16, 17, 20 and 21, which is a conglomerate stone, 20x8x8 ins. above ground, firmly set, marked with 3 notches on S. edge, and 4 notches on E. edge, and witnessed by mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

Land, rolling, broken and mountainous.

Soil, rocky, 4th rate.

Timber, cedar.

Undergrowth, scrub cedar and oak, and catclaw.

Grass poor.

Retracement and Resurvey of part of Subdivision of T. 20 N.R.10 W 5

Chains.

RESURVEY.

N.0°08'W., on true line, on W. bdy. of sec.16. (S. 1/2).
Over rolling and broken hills, thru scattering timber and undergrowth.

- 31.70 Descend 250 ft., gradually, on N. slope.
- 39.65 Wash, 40 lks. wide, course SE. Ascend 130 ft. to
Intersect original 1/4 sec. cor. of secs.16 and 17, which is a conglomerate stone, 8x6x6 ins. above ground, firmly set, marked "1/4" on W. face, and witnessed by mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. No bearing trees. Change this cor. to refer to sec.16 only, by marking "1/4" on E. face, obliterating marking on W. face, and moving mound of stone from W. to E. of cor.

N.0°04' E. on true line, on W. bdy. of sec.16 (N. 1/2).
Over rolling and broken land, thru scattering timber and undergrowth.

- Ascend 115 ft. on S. slope.
- .27 (39.92 1/2 chs. northerly from cor. of secs.16,17,20 and 21, or midpoint of E. bdy. of sec.17),
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of sec.17, with brass cap, marked

1/4 S17

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

- 8.00 Spur, sloping E. Descend 155 ft.
- 19.70 Wash, course NE. Ascend 100 ft. on SE. slope.
- 26.00 Point of spur, from W. Descend 100 ft.
- 31.20 Wash, course SE. Ascend 115 ft. on SE. slope.
- 39.63 Intersect original cor. of secs.8,9,16 and 17, which is a granite stone in place, 5x4x3 ft. above ground, marked with 4 notches on each of S. and E. faces, and a cross (x) on top, and witnessed by a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
No bearing trees. This cor. changed to refer to secs. 9 and 16 only, when cor. of secs. 8 and 17 is reestablished as hereinafter described.
Land, rolling and broken.
Soil, rocky, 4th rate.
Timber, cedar and pinon.
Undergrowth, scrub cedar and pinon, crucifixion thorn, cat-claw, scrub oak and cactus.

N.0° 09'W., on true line, on W. bdy. of sec.9 (S. 1/2).
Over roughly rolling hills, thru scattering timber and dense undergrowth. Ascend 135 ft. on S. slope.

- .57 The reestablished cor. of secs.8 and 17, hereinafter described.
- 18.85 Top of spur, sloping NW. Descend 285 ft., on NE. slope.
- 35.15 Wash, course E.
- 39.80 "O.R." On spur, sloping E. The original 1/4 sec. cor. of secs. 8 and 9, changed by Transitman Warner to refer to sec. 9 only. This cor. as changed, is a granite stone, 12x10 x6 ins. above ground, firmly set, marked "1/4" on E. face, and witnessed by a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. No bearing trees.
Change this cor. back to its original designation of 1/4 sec. cor. of secs.8 and 9, by marking 1/4 on W. face of stone, obliterating marking on E. face, and moving mound of stones from E. to W. of cor.

RETRACEMENT.

N.1°9'W., on true line, on west bdy. of sec.9 (N. 1/2).

6. Retracement & Resur. of part of Subdivision of T.20N.R.10 W.

Chains.	(Retracement-continued)
	Over rolling land, thru scattering timber and dense undergrowth.
.77	"O.R." The Warner reestablished $\frac{1}{4}$ sec. cor. of sec. 8 is an iron post, with brass cap, properly set, marked and witnessed. Destroy all trace of this cor.
5.00	Small wash, course E.
23.85	Top of rocky spur, sloping W.
40.00	Intersect original cor. of secs. 4, 5, 8 and 9, which is a conglomerate stone, 14x10x8 ins. above ground, firmly set, marked with 5 notches on S. edge, and 4 notches on E. edge, and witnessed by a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.
	Land, rolling and broken.
	Soil, rocky, 4th rate.
	Timber, pinon and cedar.
	Undergrowth, scrub pinon, juniper, cedar and oak.
	Grass, fair.

	N. 89° 39' W., on true line, on S. bdy. of sec. 5 (E. $\frac{1}{2}$).
	Over rolling and broken land, thru scattering timber and undergrowth.
39.44	"O.R." The Warner reestablished $\frac{1}{4}$ sec. cor. of sec. 8 only, is an iron post, with brass cap, properly set, marked and witnessed.
	Destroy all trace of this cor.
39.98	"O.R." The original $\frac{1}{4}$ sec. cor. of secs. 5 and 8, which is a granite stone, 24x14x8 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on N. face, and witnessed by a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. The designation of this cor. was changed by Transitman Warner, when $\frac{1}{4}$ sec. cor. of secs. 8 was reestablished, but no change was required in the marking or accessory, and by the destruction of the $\frac{1}{4}$ sec. cor. of sec. 8, this cor. resumes its original designation.
	N. 89° 58' W., on true line, on S. bdy. of sec. 5 (W. $\frac{1}{2}$).
	Over mountainous land, thru scattering timber and undergrowth.
	Descend.
6.00	Wash, course SE. Ascend 400 ft. on NE. slope. to
35.25	Ascend 65 ft., on SE. slope.
39.46	Intersect original cor. of secs. 5, 6, 7 and 8, which is a granite stone, 12x12x6 ins. above ground, firmly set, marked with 5 notches on each of S. and E. edges, and witnessed by mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.
	Land, rolling, broken and mountainous,
	Soil, rocky, 4th rate.
	Timber, scattering cedar, oak and pinon.
	Undergrowth, scrub oak, cedar and pinon.
	Grass, poor.

	N. 89° 57' W., on true line, bet. secs. 6 and 7 (E. $\frac{1}{2}$).
	Over broken land, thru scattering timber and undergrowth.
	Ascend 40 ft. on SE. slope.
1.90	Top of spur, sloping SE. Descend 170 ft.
23.70	Head of draw, course S. 30° E. Ascend 80 ft. to
35.60	Ascend 40 ft., on SE. slope, to
39.87	Intersect original $\frac{1}{4}$ sec. cor. of sec. 6 and 7, which is a granite stone, 14x10x8 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on N. face, and witnessed by mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. No bearing trees.

<u>RESURVEY</u>	
	N. 89° 53' W., on true line, bet. secs. 6 and 7 (W. $\frac{1}{2}$).
	Over rolling and broken land, thru scattering timber and undergrowth. Ascend 115 ft. on NE. slope.

Retracement & Resur. of part of subdivision of T.20 N., R.10 W. 7

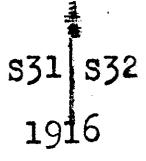
Chains.

(Resurvey-continued)

- 9.20 Top of spur, sloping SE. Descend 110 ft. on SW. slope.
 - 19.80 Head of draw, course S. 20° E. Ascend 150 ft. on E. slope.
 - 31.50 Spur, sloping S. Descend 90 ft.
 - 37.63 Intersect the reestablished cor. of secs. 6 and 7, on W. bdy. of Tp., described in Book "G."
- Land, broken and rolling hills.
Soil, rocky, 4th rate.
Timber, cedar, pinon and oak.
Undergrowth, scrub cedar, pinyon and oak. Grass fair.

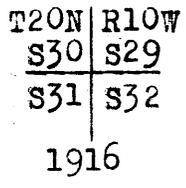
Survey of Completion of Subdivision of T.20 N., R.10 W.

- From the cor. of secs. 31 and 32, on the S. bdy. of Tp., hereinbefore described,
N. 0° 03' W., bet. secs. 31 and 32.
Over broken high hills, thru. scattering undergrowth.
Descend 165 ft. on NE. slope.
- 14.55 Wash, 60 lks. wide, course SE. Ascend 235 ft., on SW. slope.
 - 37.65 Top of spur, sloping SE.
 - 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



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

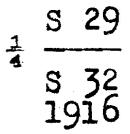
- 51.80 Descend 130 ft., on NE. slope.
- Wash, course SE. Ascend 280 ft., on SW. slope.
- 75.30 Spur, sloping NW. Descend 50 ft.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., in a mound of stone (impracticable to set post in the ground) for cor. of secs. 29, 30, 31 and 32, with brass cap, marked



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

Land, broken high hills.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub cedar and oak.
Grass, poor.

- 40.00 East, on a random line, bet. secs. 29 and 32.
- Set temp. $\frac{1}{4}$ sec. cor.
- 79.50 Intersect N. and S. line 9 lks. N. of the original cor. of secs. 28, 29, 32 and 33, hereinbefore described.
Thence N. 89° 56' W. on a true line, bet. secs. 29 and 32.
Over mountainous land, thru. scattering undergrowth.
- 1.00 Wash, in gulch, course S. 30° E. Ascend 175 ft.
- 12.70 Top of spur, sloping S. 30° E. Descend 375 ft., on W. slope.
- 31.60 Wash, course S. Ascend on NE. slope.
- 39.75 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



8. Survey of Completion of Subdivision of T.20 N., R. 10 W.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

47.80 Top of rocky spur, sloping SE., 400 ft. above wash. Descend 170 ft., on SW. slope.

56.15 Wash, course SE. Ascend 280 ft., on NE. slope.

79.50 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scrub oak, pinyon and cedar.

Grass, fair.

West, on a true line, bet. secs. 30 and 31.

Over rolling and broken hills, thru. scattering undergrowth.

17.25 Low spur, sloping SE. Descend 200 ft. on SW. slope.

23.95 Small draw, course SE. Ascend on NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone (impracticable to set post in the ground) for ¼ sec. cor., with brass cap, marked

¼ S 30
¼ S 31
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

61.50 Top of spur, sloping N., 800 ft. above draw. Descend on W. slope, over cliffs, 60 ft. high.

78.49 Intersect E. bdy. of Tp. 20 N., R. 11 W., 5.90 chs. N. of the cor. of secs. 25 and 36, described in Book "G."

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam.; 24 ins. in the ground, for closing cor. of secs. 30 and 31, with brass cap, marked

T20N
R11W | R10W
S25 | S30 CC
 | S31
 1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

Cor. is 475 ft. below top of spur.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, cedar, oak brush and pinyon.

Grass poor.

From cor. of secs. 29, 30, 31 and 32.

N. 0° 03' W., bet. secs. 29 and 30.

Over mountainous land, thru. scattering timber and undergrowth.

Descend 170 ft., on rocky NE. slope.

7.50 Head of gulch, course SE. Ascend 225 ft., on SE. slope.

17.30 Top of rocky spur, sloping NE. Descend 325 ft., on rocky NW. slope.

29.70 Wash, course NE. Ascend 60 ft.

36.25 Spur, sloping NE. Descend 60 ft.

37.35 Draw, course E. Ascend.

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

¼ S30 | S29
1916

Survey of Completion of Subdivision of T. 20 N., R. 10 W., 9.

Chains.

- and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
- 42.00 Spur, sloping E., 50 ft. above draw. Descend 35 ft.
- 43.90 Draw, course E. Ascend 80 ft.
- 55.80 Point of spur, from W. Descend 60 ft.
- 61.70 Draw, course SE. Ascend 150 ft.
- 69.50 Top of spur, sloping SE. Descend 140 ft.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap, marked

T20N	R10W
S19	S20
S30	S29

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, mountainous and broken.
 Soil, rocky, 4th rate.
 Timber, pinon, cedar and oak.
 Undergrowth, scrub oak, pinon and cedar.

- East, on a random line, bet. secs. 20 and 29.
- 40.00 Set temp. ¼ sec. cor.
- 80.00 Fall 38 lks. N. of the original cor. of secs. 20, 21, 28 and 29, hereinbefore described.
- Thence N. 89° 44' W., on a true line, bet. secs. 20 and 29.
- Over rolling and broken land, thru. scattering undergrowth. Descend 75 ft.
- 4.20 Wash, course SE. Ascend gradually 140 ft.
- 36.00 Point of spur, from S.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked

¼ S 20
S 29

1916

- and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- 60.00 Small draw, course N.
- 74.00 Low spur, sloping N.
- 80.00 The cor. of secs. 19, 20, 29 and 30.
- Land, rolling and broken.
- Soil, rocky, 4th rate.
- No timber.
- Undergrowth, scrub cedar and oak, and greasewood.
- Grass fair.

- West, on a true line, bet. secs. 19 and 30.
- Over rolling and broken land, thru. scattering timber and dense undergrowth.
- 4.00 Small draw, course N.
- 29.75 Point of spur, from S., 180 ft. above wash. Descend 70 ft. on W. slope.
- 35.65 Gulch, course N. Ascend 30 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked

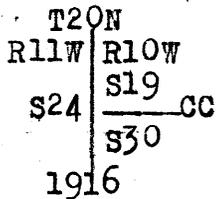
¼ S 19
S 30

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

10. Survey of Completion of Subdivision of T.20 N., R.10 W.

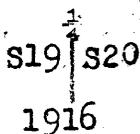
Chains.
 52.00 Point of spur, sloping NE.
 55.90 Gulch, course NE.
 78.12 Intersect E. bdy. of Tp. 20 N., R.11 W., 5.72 chs. N. of the cor. of secs. 24 and 25, described in Book "G."
 At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 19 and 30, with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

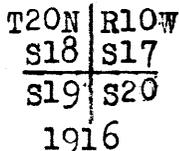
Land, rolling and broken.
 Soil, gravelly and rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub cedar, pinyon and oak.
 Grass, fair.

From cor. of secs. 19, 20, 29 and 30,
 N. 0° 03' W., bet. secs. 19 and 20.
 Over rolling and broken hills, thru scattering timber and dense undergrowth. Descend 35 ft.
 3.15 Wash, course E. Ascend 175 ft., on S. slope.
 27.00 Point of rocky spur from W. Descend 90 ft. on N. slope.
 35.60 Wash, course E. Ascend on S. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

58.70 Top of rocky spur, sloping E., 290 ft. above wash. Descend 155 ft., on N. slope.
 66.66 Head of wash, course E. Ascend 65 ft., on S. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, mountainous and broken.
 Soil, rocky, 4th rate.
 Timber, pinyon, cedar, juniper and oak.
 Undergrowth, scrub growth of same.
 Grass, fair.

40.00 East, on a random line, bet. secs. 17 and 20. Set temp. ¼ sec. cor.
 79.94 Fall 37 lks. N. of the original cor. of secs. 16, 17, 20 and 21, hereinbefore described.
 Thence N. 89° 44' W., on a true line, bet. secs. 17 and 20. Over mountainous land, thru scattering undergrowth. Ascend 390 ft. on E. slope.
 18.75 Top of rocky spur, projecting N. Descend.
 39.97 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the

Survey of Completion of Subdivision of T.20 N., R.10 W., 11

Chains.

ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 17
S 20
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

- 43.97 Head of draw, course N. Ascend 130 ft. on E. slope.
- 51.70 Spur, sloping S. 30° E. Descend 85 ft.
- 59.57 Small draw, course S. 30° E. Ascend 75 ft. on E. slope.
- 67.50 Spur, sloping S. Descend 65 ft.
- 79.45 Head of small draw, course S.
- 79.94 The cor. of secs. 17, 18, 19 and 20.

Land, rolling and broken.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, scrub oak, pinyon and cedar.
Grass, fair.

West, on a true line, bet. secs. 18 and 19.
Over rolling and broken land, thru. scattering undergrowth.
Ascend 60 ft. on E. slope.

- 7.90 Spur sloping S. Descend 100 ft. on W. slope.
- 23.83 Wash, course S. Ascend 160 ft. on E. slope.
- 35.55 Spur, sloping S. Descend 65 ft.
- 39.40 Small wash, course S.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 18
S 19
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

- 47.90 Top of rocky spur, sloping S.
- 73.50 Wash, course S.
- 77.87 Intersect E. bdy. of T.20 N., R.11 W., 5.57 chs. N. of the cor. of secs. 13 and 24, described in Book "G."

At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 18 and 19, with brass cap, marked

T20N
R11W | R10W
S13 | S18 CC
S19
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor.

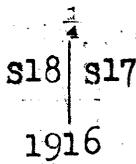
Land, rolling and broken.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub cedar and oak.
Grass, poor.

From cor. of secs. 17, 18, 19 and 20,
N. 0° 03' W., bet. secs. 17 and 18.
Over rolling, mountainous land, thru. scattering undergrowth.
Ascend 280 ft. on S. slope.

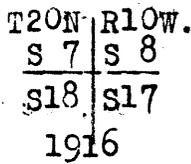
- 15.40 Top of spur, sloping S. 60° E. Descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

12. survey of completion of Subdivision of T. 20 N., R. 10 W.

Chains.

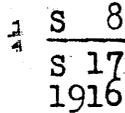


- and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
- 51.90 Wash, course E., 425 ft. below spur. Ascend 260 ft. on S. slope.
- 80.00 On spur, sloping E.,
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, with brass cap, marked

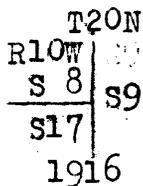


and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling, mountainous and broken.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub oak and cedar.
 Grass, poor.

- s. 89° 44' E., on a true line, bet. secs. 8 and 17.
Over rolling and broken hills, thru. scattering undergrowth.
Descend 245 ft., gradually on E. slope.
- 38.00 Wash, course NE.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked



- and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- 40.30 Wash, 60 lks. wide, course E. Same wash noted at 38 ch. point.
Thence along wash.
- 44.00 Leave same, course NE. Ascend gradually, 100 ft., on NW. slope.
- 59.80 Top of spur, sloping NE. Descend 150 ft. on NE. slope.
- 71.65 Same wash, course SE. Ascend on SW. slope, 100 ft.
- 80.00 Intersect W. bdy. of sec. 9, 57 lks. N. 0° 09' W. of the reestablished cor. of secs. 9 and 16, hereinbefore described.
At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 8 and 17, with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and broken.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, scrub cedar and pinyon
 Grass, fair.

Survey of Completion of Subdivision of T.20 N., R.10 W.

Chains.

From cor. of secs. 7, 8, 17 and 18,
 West, on a true line, bet. secs. 7 and 18.
 Over rolling and broken land, thru scattering undergrowth.
 Ascend 80 ft.
 11.90 Spur, sloping SE. Descend 175 ft., on SW. slope.
 23.60 Small wash, course S. 30° E. Ascend on NE. slope, 175 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 a mound of stone, (impracticable to set post in the
 ground) for $\frac{1}{4}$ sec. cor., with brass cap, marked

S 7
 $\frac{1}{4}$
 S 18
 1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 50.95 Head of draw, course NE. Ascend 175 ft.
 67.70 Top of spur, sloping S. Descend 150 ft.
 77.80 Intersect E. bdy. of Tp. 20 N. R. 11. W., 5.67 chs. N. of the
 cor. of secs. 12 and 13, described in Book "G."
 At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground, surrounded by a mound of stone (impracticable
 to set post deeper in the ground) for closing cor.
 of secs. 7 and 18, with brass cap, marked

T20N
 R11W | R10W
 S12 | S7 CC
 S18
 1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of
 cor.
 Land, broken and rolling hills.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub cedar.
 Grass, poor.

From cor. of secs. 7, 8, 17 and 18,
 N. 0° 03' W., on a random line, bet. secs. 7 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.98 Fall 2 lks. W. of the original cor. of secs. 5, 6, 7 and 8,
 hereinbefore described.
 Thence,
 S. 0° 02' E., on a true line, bet. secs. 7 and 8.
 Over mountainous land, thru scattering undergrowth.
 Descend 400 ft., on S. slope.
 28.60 Wash, course E. Ascend on N. slope.
 38.98 "O.R." The Warner $\frac{1}{4}$ sec. cor. of secs. 7 and 8 is an iron
 post, 1 in. in diam., 10 ins. above ground, firmly set,
 properly marked on brass cap, and witnessed by a mound
 of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Change this cor. to refer to sec. 7 only, by changing mark-
 ing on brass cap, to read,

S 7
 ↑
 1916

leaving accessory unchanged.
 "OR" 40.00 "O.R." Set an iron post, 3 ft. long, 1 in. in diam., 16 ins.
 in the ground, supported by mound of stone, for $\frac{1}{4}$ sec.
 cor. of sec. 8 only, marked on brass cap,

$\frac{1}{4}$
 S 8
 1919

14 Survey of Completion of Subdivision of T.20 N.,R.10 W.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

41.60 Top of spur, sloping E., 260 ft. above wash. Descend 215 ft. on SW. slope.

59.25 Wash, 30 lks. wide, course SE. Ascend 170 ft.

78.98 The cor. of secs. 7, 8, 17 and 18.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub oak, cedar and pinyon, and greasewood.
Grass poor.

Boundaries of that portion of T.20 N., R.10 W. subdivided under this group.

Latitudes, Departures, and Closing Errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	158.30				158.30
West boundary,	North,	398.55	398.55			
Subdivisional Boundary,	S. 89° 53' E.	37.63		.08	37.63	
	S. 89° 57' E.	39.87		.03	39.87	
	S. 89° 58' E.	39.46		.02	39.46	
	S. 89° 39' E.	39.98		.24	39.98	
	S. 1° 09' E.	40.00		39.99	.80	
	S. 0° 09' E.	39.80		39.80	.10	
	S. 0° 04' W.	39.63		39.63		.05
	S. 0° 08' E.	39.65		39.65	.09	
	S. 0° 02' E.	39.82		39.82	.02	
	S. 0° 02' W.	40.14		40.14		.02
	S. 0° 03' W.	39.90		39.90		.04
	S. 0° 13' W.	39.96		39.96		.15
S. 0° 03' W.	40.64		40.64		.04	
S. 0° 11' E.	39.53		39.53	.13		
Convergency,					.14	
Totals,			398.55	399.43	158.22	158.60
				398.55		158.22
Error in latitude,				.88		
Error in departure,						.38

GENERAL DESCRIPTION.

The surface of the portion of this township described in the foregoing field notes varies from rolling to broken, hilly and mountainous. The general drainage is towards the east and south east. There is no permanent water.

The soil is gravelly and rocky, 4th rate, and unsuited to agriculture. The greater part of the area is covered with a growth of varying denseness of cedar, pinon, juniper, catclaw, crucifixion thorn, scrub oak and cactus. Scant grass exists in sufficient quantity to furnish indifferent grazing.

There are no settlers. No indications of valuable mineral were noted.

For list of assistants to A. Parker Warner,
U.S. Transitman, see Book "E" of this group.

Book "H."

BOOK 3209

T.20 N., R.10 W.

Group No 50- Arizona

DATE DIAGRAM.

5th. Standard Parallel North.

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

above in green

Executed on dates shown by A. Parker Warner,
U. S. Transitman.

X Corrections by Otis Ross, U.S. Surveyor,
November 17, 1919.

BOOK 3209

FINAL CERTIFICATE OF U.S. TRANSITMAN.

I, A. Parker Warner, U. S. Transitman, hereby certify on honor that in pursuance of special instructions received from the U.S. Surveyor General for Arizona for Group No. 50, bearing date of the 20th day of February, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

GROUP No. 50,

North and West of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes, and by the diagram on the reverse hereof as having been executed by me, and under my direction; and I do further certify on honor that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General for Arizona for Group No. 50, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

A. Parker Warner
U. S. Transitman.

APPROVAL.

Office of the United States Surveyor General,

Phoenix, Arizona, Sept. 24, 1918.

The foregoing field notes of the survey of part of the South boundary, and completion of survey of the Subdivision lines, Retracement of part of the Subdivision lines, and Resurvey of part of the Subdivision Lines, All of Township 20 North, Range 20 West of the Gila and Salt River Base and Meridian in the State of Arizona, executed by A. Parker Warner, U.S. Transitman, under his special instructions dated Feb. 20, 1915, for Group 50, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys, retracements and resurveys they describe are hereby approved.

Francis D. Smith
U. S. Surveyor General of Arizona.

18
BOOK 3209

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 50, Arizona, bearing date of the 15th day of September, 1919, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ ^{corrected} all those parts or portions of the Retracement, Resurvey and Survey of the Subdivision lines of TOWNSHIP 20 NORTH, RANGE 10 WEST.

of the Gila and Salt River Base & Meridian, in the State of Arizona, which are represented in and by diagram on page 15 hereof the foregoing field notes ~~as~~ ^{as} having been executed by me, and under my direction; and that all the corners of corrections, said ~~same~~ 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 50, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such corrections.

Otis Ross

U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, March 10, 1920

The foregoing field notes of the survey of portion of south boundary, and part of Subdivision lines, and Retracement of Part of subdivision lines, Resurvey of Part of South boundary, and Part of subdivision lines, all of TOWNSHIP 20 NORTH, RANGE 10 WEST, of the Gila and Salt River Base and Meridian, in the state of Arizona, executed by A. Parker Warner, U. S. Transitman, with Corrections by Otis Ross, U.S. Surveyor,

under ~~my~~ special instructions dated Feby. 20, 1915, and Supp. Spl. Instructions, dated Sept. 15, 1919, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys, retracements and resurveys; and corrections they describe, are hereby approved.

Francis D. Pratt

U. S. Surveyor General.

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

~~U. S. Surveyor General~~