

4-679  
(April 1933)

Book A.

BOOK 4063

# FIELD NOTES

OF THE

Independent Resurvey of the 2nd Stan. Par. S., through  
Rs. 8, 9, 10, 11 and 11½ W.

Of the Gila and Salt River Meridian,

In the State of Arizona.

### EXECUTED BY

Walter H. Good, U. S. Surveyor.

Under special instructions dated December 12, 1933, which provided  
for the surveys included under Group No. 200, bearing the approval of the  
Commissioner of the General Land Office under date of April 17, 1934,  
and assignment instructions dated January 10, 1934.

Survey commenced January 30, 1934.

Survey completed February 23, 1934.

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BOOK 4063

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SECOND STANDARD PARALLEL SOUTH.

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Independent Resurvey of the Second Standard Parallel South  
through R. 8 W.

BOOK 4063

The survey was executed with a light mountain solar transit made by Buff and Buff, Serial No. 10127, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $4\frac{1}{2}$  ins., with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins. with one double vernier reading to single minutes; the telescope has fixed stadia wires, ratio 1:132, with a focal constant of 1.2 lks. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc 4 ins., and of the declination arc  $3\frac{1}{2}$  ins., each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, was approved by the district cadastral engineer January 10, 1934.

The line to be established runs over a desert country, through scattered timber and undergrowth. The secant method was selected and the controlling meridian was established by observation upon Polaris; the bearing of the secant was deflected from the meridian by repetition of angles and was carried forward by transit line, removing all obstructing timber.

The measurements were made with two Lallie steel tapes, 5 chs. in length, graduated every link for the first 100 lks. and the balance at intervals of 10 lks. The tapes were first tested by comparison with a Lufkin standard and found correct. Both sets of measurements were made on the slope; the vertical angles were determined by clinometers in good adjustment; the horizontal equivalents are entered in the field note record.

January 30, 1934, at the cor. of Tps. 9 S., Rs. 7 and 8 W., in latitude  $32^{\circ} 35' 36''$  N., and longitude  $113^{\circ} 01' 34''$  W., as shown in the data furnished with the special instructions at 11h 36.2m, a.m., by my watch, which reads correct 105th meridian time, as determined by comparison with a Western Union clock, make an observation on Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions; the horizontal angles being measured from a sharply defined point northwesterly, about 10 chs. dist.

Mean watch time of observation, a.m.	11 <sup>h</sup> 30 <sup>m</sup>
Mean horizontal angle, right	60° 00' 30"
Azimuth of Polaris, east	1° 14' 30"

Bearing of secant in latitude of station	N. 89° 58' 22" W.
Bearing of reference point	N. 58° 46' 00" W.

Angle to be turned	31° 12' 22"
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Turning from the reference line determined by Polaris observation, set a flag on the secant; the multiple angle of four repetitions reads  $124^{\circ} 49' 30''$ , which indicates an angle of  $31^{\circ} 12' 22''$ .

The following field notes describe an independent resurvey of the 2nd Stan. Par. S., through Rs. 8, 9, 10, 11 and  $11\frac{1}{2}$  W. This line was originally surveyed by L. Wolfley, U.S.D.S., in 1893. No resurveys of this line are of record.

Beginning at the standard corner of Tps. 9 S., Rs. 7 and 8 W., which is an iron post, 3 ins. diam., firmly set, 22 ins. above ground, and in a mound of stone to top, marked and witnessed as described in the official record.

West, with the establishment of the second standard paral-

Independent Resurvey of the Second Standard Parallel South  
S. Bdy. T. 9 S., R. 8 W.

chains	<p>lel south, on the S. bdy. of sec. 36, T. 9 S., R. 8 W., on a transit line describing the secant, which starts from a point 3 lks. S. of the Tp. cor., and bears N. 89° 58.4' W.</p> <p>Over mountainous land, through scattered undergrowth. Along rocky S. slope, desc. 10 ft.</p> <p>3.20 Wash, 15 lks. wide, course SE.; asc. 180 ft. over NE. slope.</p> <p>7.15 Spur, slopes SE.; continue along S. slope.</p> <p>16.70 Spur, slopes S.; desc. 270 ft. over SW. slope.</p> <p>30.75 Wash, 10 lks. wide, course S.; asc. 190 ft. over SE. slope.</p> <p>39.40 Spur, slopes S.; desc. 5 ft.</p> <p>Diff. bet. meas. of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point -</p> <p>By 1st. set, 40.02 chs. By 2nd. set, 39.98 chs.; the mean of which is</p> <p>40.00 N. 1 lk. from the secant,</p> <p>True point for standard <math>\frac{1}{4}</math> sec. cor. falls upon insecure ground, an unsuitable position for a permanent cor.</p> <p>45.50 Set a granite stone, 30 x 12 x 10 ins., 18 ins. in the ground, for witness standard <math>\frac{1}{4}</math> sec. cor., mkd. S C <math>\frac{1}{4}</math> on N. face, and W C on the E. face; and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.</p> <p>Continue descent 260 ft. over SW. slope.</p> <p>55.00 Foot of mountains, bears NW. and SE.; desc. 100 ft. over gently rolling land.</p> <p>70.00 Wash, 15 lks. wide, course S. 10° W., from N.; continue over nearly level land.</p> <p>Diff. bet. meas. of 80.00 chs. by two sets of chainmen, is 4 lks.; position of middle point -</p> <p>By 1st set, 80.02 chs. By 2nd set, 79.98 chs.; the mean of which is</p> <p>80.00 On the secant,</p> <p>Set a malpais stone 27 x 9 x 8 ins., 20 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. S C on the N., 1 groove on the E. and 5 grooves on the W. faces; and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.</p> <p>Land, mountainous and rolling. Soil, rocky and gravelly; 4th and 2d rate. Timber, scattered mesquite and palo verde; undergrowth, greasewood and cacti.</p> <hr/> <p>West, along the S. bdy. of sec. 35, on a transit line describing the secant, which bears N. 89° 58.9' W.</p> <p>Over nearly level land, through scattered timber and undergrowth.</p> <p>Diff. bet. meas. of 40.00 chs., by two sets of chainmen, is 2 lks.; position of middle point -</p> <p>By 1st set, 40.01 chs. By 2nd set, 39.99 chs.; the mean of which is</p>
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## Independent Resurvey of the

3

2ND STAN. PAR. S., S. BDY. T.9 S., R.8 W.

4885

chains	
✓ 40.00	S. 1 lk. from the secant.  Set a malpais stone, 24 x 9 x 6 ins., 18 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., mkd. S C $\frac{1}{4}$ on the N. face; and raise a mound of stone, 3 ft. base, 2 ft. high. N. of cor.  Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-  By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	Set a malpais stone, 32 x 12 x 8 ins., 24 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. S C on the N., 2 grooves on the E. and 4 grooves on the W. faces; and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor., 3 ft. dist.  Land, nearly level. Soil, gravelly and sandy, 2nd. rate. Timber, scattered mesquite and palo verde; undergrowth, greasewood and cacti.
	----- West, along the S. bdy. of sec. 34, on a transit line describing the secant, which bears N.89°59.4'W.  Over level land, through scattered timber and undergrowth.
10.00	Wash, 25 lks. wide, course SW.
37.90	Wash, 12 lks. wide, 3 ft. deep, course SW.  Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;
40.00	S. 2 lks. from the secant.  Set a malpais stone, 24 x 8 x 8 ins., 22 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., mkd. S C $\frac{1}{4}$ on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.  Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-  By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	S. 3 lks. from the secant.  Set a malpais stone, 27 x 8 x 8 ins., 18 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. S C on the N., 3 grooves on the E. and 3 grooves on the W. faces; and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor., 3 ft. dist.  Land, nearly level. Soil, gravelly and sandy, 2nd. rate. Timber, scattered mesquite and palo verde; undergrowth, greasewood and cacti.
	----- West, along the S. bdy. of sec. 33, on a transit line describing the secant, which bears West.

## Independant Resurvey of the

2ND STAN. PAR. S., S. BDY. T.9 S., R.8 W.

chains	Over level land, through scattered timber and undergrowth.
23.90	Wash, 20 lks. wide, 2 ft. deep, course NW. Diff. bet. meas. of 40.00 chs.. by two sets of chainmen. is 2 lks.; position of middle point-  By 1st set, 40.01 chs. By 2nd set, 39.99 chs.; the mean of which is
40.00	S. 2 lks. from the secant.  Set a malpais stone, 20 x 12 x 8 ins., 16 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., mkd. S C $\frac{1}{4}$ on the N. face; and dig pits, 18 x 18 x 12 ins. E. and W. of cor., 3 ft. dist; raise a mound of stone, 3 ft. base, 1 ft. high N. of cor.  Diff. bet. meas. of 80.00 chs.. by two sets of chainmen. is 2 lks.; position of middle point-  By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	S. 2 lks. from the secant.  Set a malpais stone, 19 x 10 x 6 ins., 15 ins. in the ground, for standard cor. of secs. 32 and 33, mkd. S C on the N., 4 grooves on the E. and 2 grooves on the W. faces; and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor., 3 ft. dist.; raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. N. of cor.  Land, nearly level. Soil, gravelly and sandy, 2nd. rate. Timber, scattered mesquite and palo verde; undergrowth. greasewood and cacti.  ----- West, along the S. bdy. of sec. 32, on a transit line describing the secant, which bears S.89°59.4'W.  Over level land, through scattered timber and undergrowth.
9.10	Enter Childs Valley Wash, course NW.
15.00	Leave wash.  Diff. bet. meas. of 40.00 chs.. by two sets of chainmen. is nothing;
40.00	S. 1 lk. from the secant.  Set a malpais stone, 16 x 8 x 6 ins., 12 ins. in the ground, for standard $\frac{1}{8}$ sec. cor., mkd. S C $\frac{1}{8}$ on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.  Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-  By 1st set, 80.01 chs. By 2nd set, 79.99 chs.; the mean of which is
80.00	On the secant.  Set a malpais stone, 19 x 17 x 12 ins., 12 ins. in the ground, for standard cor. of secs. 31 and 32, mkd. S C on the N., 5 grooves on the E. and 1 groove on the W. faces;

## Independent Resurvey of the

2ND STAN. PAR. S., S. BDY., T.9 S., R.8 W.

chains

and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor.  
3 ft. dist.

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered palo verde, ironwood and mesquite;  
undergrowth, greasewood and cacti.

West, along the S. bdy. of sec. 31, on a transit line  
describing the secant, which bears S.89°58.9'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 N. 1 lk. from the secant.

Set a malpais stone, 24 x 8 x 6 ins., 18 ins. in the  
ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N.  
face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor..  
3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 N. 3 lks. from the secant.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the  
ground, for standard cor. of Tps.9 S., Rs. 8 and 9 W..  
with brass cap mkd.

SC	
T9S	
R9W	R8W
S 36	S 31

1934

of stone, 3 ft. base, 2 ft. high, N. of cor. raise a mound

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered palo verde, mesquite and ironwood;  
undergrowth, greasewood and cacti.

Independent Resurvey of the  
2ND STAN. PAR. S., S. BDY., T.9 S., R.8W.

West, with the establishment of the 2nd standard parallel  
south, along the S. bdy. of sec. 36, T.9 S., R.9 W., on a  
transit line describing the secant, which starts from a  
point 3 lks. S. of the Tp. cor., and bears N.89°58.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs.; by two sets of chainmen,  
is 2 lks.; position of middle point-

## Independent Resurvey of the

2ND STAN. PAR. S.. S. BDY., T.9 S., R.9 W.

chains

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 N. 1 lk. from the secant.

Set a malpais stone, 20 x 12 x 8 ins., 14 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is nothing;

80.00 On the secant.

Set a malpais stone, 18 x 16 x 4 ins., 14 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. S C on the N., 1 groove on the E. and 5 grooves on the W. faces; and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor., 3 ft. dist.

Land, nearly level.

Soil, gravelly and sandy, 2nd. rate.

Timber, scattered ironwood and mesquite; undergrowth. greasewood and cacti.

-----  
West, along the S. bdy. of sec. 35, on a transit line describing the secant, which bears N.89°58.9'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;

40.00 S. 1 lk. from the secant.

Set a malpais stone, 22 x 6 x 6 ins., 16 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

54.80 Wash. 10 lks. wide. 1 ft. deep, course S.70°E.,

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is nothing;

80.00 S. 2 lks. from the secant.

Set a malpais stone, 24 x 14 x 7 ins., 16 ins. in the the ground, for standard cor. of secs. 34 and 35, mkd. S C on the N., 2 grooves on the E. and 4 grooves on the W. faces;

Land, nearly level.

Soil, gravelly and sandy, 2nd. rate.

Timber, scattered ironwood and palo verde; undergrowth. greasewood and cacti.

-----  
West, along the S. bdy. of sec. 34, on a transit line describing the secant, which bears N.89°59.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

## Independent Resurvey of the

2ND STAN. PAR. S., S. BDY., T.9 S., R.9 W.

chains

By 1st set, 40.01 chs.  
By 2nd set, 39.99 chs.; the mean of which is

40.00 S. 2 lks. from the secant.

Set a malpais stone, 24 x 12 x 6 ins., 16 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is nothing;

80.00 S. 3 lks. from the secant.

Set a malpais stone, 24 x 16 x 8 ins., 18 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. S C on the N., 3 grooves on the E. and 3 grooves on the W. faces;

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered ironwood and mesquite; undergrowth. greasewood and cacti.

-----  
West, along the S. bdy. of sec. 33, on a transit line describing the secant, which bears West.

Over level land, through scattered timber and undergrowth.

4.50 Wash, 10 lks. wide, course SW.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;

40.00 S. 2 lks. from the secant.

Set a malpais stone, 20 x 8 x 6 ins., 15 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is nothing;

80.00 S. 2 lks. from the secant.

Set a malpais stone, 24 x 13 x 8 ins., 18 ins. in the ground, for standard cor. of secs. 32 and 33, mkd. S C on the N., 4 grooves on the E. and 2 grooves on the W. faces.;

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered ironwood and mesquite; undergrowth. greasewood and cacti.

-----  
West, along the S. bdy. of sec. 32, on a transit line describing the secant, which bears S.89°59.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

chains

By 1st set, 40.01 chs.  
By 2nd set, 39.99 chs.; the mean of which is

40.00 Set a malpais stone, 24 x 10 x 9 ins., 18 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., mkd. S C  $\frac{1}{4}$  on the N. face; and dig pits, 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

By 1st set, 80.01 chs.  
By 2nd set, 79.99 chs.; the mean of which is

80.00 On the secant.

Set a malpais stone, 24 x 16 x 10 ins., 18 ins. in the ground, for standard cor. of secs. 31 and 32, mkd. C S on the N. face., 5 grooves on the E. and 1 groove on the W. faces; and dig pits, 18 x 18 x 12 ins., N., E. and W. of cor., 3 ft. dist.

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered ironwood and mesquite; undergrowth, greasewood and cacti.

-----  
West, along the S. bdy. of sec. 31, on a transit line describing the secant, which bears S.89°58.9'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;

40.00 N. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 31

1934

18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist. dig pits.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

By 1st set, 80.01 chs.  
By 2nd set, 79.99 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, with a stone, 16 x 12 x 8 ins., mkd. X. deposited alongside, for standard cor. of Tps. 9 S., Rs. 9 and 10 W., with brass cap mkd.

S C  
T9S  
R10W R9W  
S 36 | S 31

1934

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, ironwood; undergrowth, greasewood and cacti.

2ND STAN. PAR. S., S. BDY., T.9 S., R.10 W.

BOOK 4066

chains

West, with the establishment of the 2nd standard parallel south, along the S. bdy. of sec. 36, T.9 S., R.10 W., on a transit line describing the secant, which starts at a point 3 lks. S. of the Tp.cor., and bears N.89°58.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 N. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 36

1934

18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist. dig pits.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is nothing;

80.00 On the secant,

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with a stone 18 x 12 x 10 ins., marked X deposited at base, for standard cor. of secs. 35 and 36, with brass cap mkd.

S C  
T9S | R10W  
S 35 | S 36

1934

Land, nearly level.

Soil, gravelly and sandy, 2nd. rate.

Timber, scattered ironwood and mesquite; undergrowth. greasewood and cacti.

West, along the S. bdy. of sec. 35, on a transit line describing the secant, which bears N.89°58.9'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is 2 lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 S. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 35

1934

dig pits.

Independent Resurvey of the

2ND. STAN. PAR. S., S. BDY., T.9 S., R.10 W.

chains

18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the  
ground, with a stone 20 x 10 x 6 ins., marked X deposited  
at base, for standard cor. of secs. 34 and 35, with brass  
cap mkd.

S	C
T9S	R10W
S 34	S 35

1934

Land, nearly level.

Soil, gravelly and sandy, 2nd. rate.

Timber, scattered ironwood and mesquite; undergrowth.  
greasewood and cacti.

-----  
West, along the S. bdy. of sec. 34, on a transit line  
describing the secant, which bears N.89°59.4'W.

Over level land, through scattered timber and undergrowth.

27.00 Old road, bears N. and S.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is two lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the  
ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S	C
$\frac{1}{4}$ S 34	

1934

18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist. dig pits.

56.00 Asc. 100 ft. over NE. slope.

68.00 Top of ascent; low ridge of hills, bears NW. and SE.; desc  
100 ft. over SW. slope.

79.00 Foot of hills, and continue over level land.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 S. 3 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins., diam., 28 ins. in  
the ground, for standard cor. of secs. 33 and 34, with  
brass cap mkd.

2ND. STAN. PAR. S., S. BDY., T.9 S., R.10 W.

BOOK 4086

chains

S C  
T9S R10W  
S 33 | S 34

1934

raise a mound  
of stone, 3 ft. base, 2 ft. high, N. of cor.

Land, nearly level, and hilly.  
Soil, sandy and rocky, 2nd. and 4th rate.  
Timber, scattered ironwood and mesquite; undergrowth.  
greasewood and cacti.

-----  
West, along the S. bdy. of sec. 33, on a transit line  
describing the secant, which bears West.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is nothing;

40.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the  
ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

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

1934

18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist. dig pits.

56.10 Wash, 15 lks. wide, 2 ft. deep, course NE.; enter gently  
rolling land.

77.30 Old road, bears NW. and SE.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is 3 lks.; position of middle point-

By 1st set. 80.015 chs.

By 2nd set. 79.985 chs.; the mean of which is

80.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the  
ground, for standard cor. of secs. 32 and 33. with brass  
cap mkd.

S C  
T9S R10W  
S 32 | S 33

1934

raise a mound  
of stone, 3 ft. base, 2 ft. high, N. of cor.

Land, nearly level.  
Soil, sandy, 2nd. rate, and rocky, 3rd. rate.  
Timber, scattered ironwood, mesquite and paloverde;  
undergrowth, greasewood and cacti.

chains

West, along the S. bdy. of sec. 32, on a transit line. describing the secant, which bears S.89°59.4'W.

Over broken land, through scattered timber and undergrowth. Asc. 130 ft. over NE. slope.

18.00 Wash, 5 lks. wide, course NE.

22.60 Spur, slopes NE.; desc. 100 ft. over NW. slope.

28.80 Wash, 10 lks. wide, course NE.; continue along gentle S. slope.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is 4 lks.; position of middle point-

By 1st set, 40.02 chs.

By 2nd set, 39.98 chs.; the mean of which is

40.00 S. 1 lk. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 32

1934

of stone, 3 ft. base, 2 ft. high, N. of cor. raise a mound

Asc. 160 ft. over SE. slope.

56.30 Spur, slopes SW.; desc. 180 ft. over W. slope.

61.00 Change of slope to SW.; continue descent.

79.95 Wash, 5 lks. wide, course S.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 6 lks.; position of middle point-

By 1st set, 80.03 chs.

By 2nd set, 79.97 chs.; the mean of which is

80.00 On the secant,

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for standard cor. of secs. 31 and 32. with brass cap mkd.

S C  
T9S | R10W  
S 31 | S 32

1934

of stone, 3 ft. base, 2 ft. high, N. of cor. raise a mound

Land. broken hills.

Soil, rocky, 3rd. rate.

Timber, scattered palo verde; undergrowth, greasewood and cacti.

2ND STAN. PAR. S., S. BDY., T.9 S., R.10 W.

BOOK 4066

chains

West, along the S. Bdy. of sec. 31, on a transit line describing the secant, which bears S.89°58.9'W.

Over broken and hilly land, through scattered timber and undergrowth.; along gentle SE. slope.

15.80 Enter wash, 20 lks. wide, course SE.

19.70 Leave wash, course E., from NW.; asc. 400 ft. over an increasing E. slope.

38.30 Top of bluff, 60 ft. high, facing E.

Diff. bet. meas. of 39.70 chs., by two sets of chainmen is 4 lks.; position of middle point-

By 1st set, 39.72 chs.

By 2nd set, 39.68 chs.; the mean of which is

39.70 N. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, to bedrock, with a stone 8 x 6 x 3 ins., marked X deposited at base, and in a mound of stone to top, for witness standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
WC -  $\frac{1}{4}$  S 31

1934

39.90 Base of cliff, 40 ft. high, bearing N. and S.

40.00 True point for  $\frac{1}{4}$  sec. cor. falls upon face of cliff, and is not accessible for establishment of cor. monument.

41.00 Top of cliff.; asc. 70 ft.

42.08 Ridge, bears N. and S.; desc. 500 ft. over W. slope.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen, is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 N. 3 lks. from the secant.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, for standard cor. of Tps.9 S., Rs.10 and 11 W., with brass cap mkd.

S C  
T9S  
R11W R10W  
S 36 | S 31

1934

of stone, 3 ft. base, 2 ft. high. N. of cor. raise a mound

From this cor. the standard cor. of Tps.9 S., Rs.10 and 11 W., bears N.15°50'E., 12.20 chs. dist.; a malpais stone, 20 x 12 x 10 ins., loosely set in the ground, marked S C on the N. face, 6 grooves on the E. and 6 grooves on the W. faces.

chains

From the same point an iron pipe, 4 ins. diam., 4½ ft. above ground, firmly set in concrete base, 2½ ft. square, 12 ins. above ground, bears N.23°46'E., 12.81 chs. dist. A brass plate imbedded in the E. face of concrete base is marked MARICOPA COUNTY; a similar plate imbedded in the W. face of the base is marked YUMA COUNTY.

Land, broken and mountainous.  
Soil, rocky, 3rd and 4th rate.  
Timber, scattered palo verde; undergrowth, greasewood and cacti.

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Independent Resurvey of the  
2ND. STAN. PAR. S., S. BDY. T.9 S., R.11 W.  
-----

West, with the establishment of the 2nd. standard parallel south, along the S. bdy. of sec. 36, T.9 S., R.11 W., on a transit line describing the secant, which starts at a point 3 lks. S. of the Tp. cor., and bears N.89°58.4'W.

Desc. 230 ft. over a decreasing NW. slope, through scattered timber and undergrowth.

33.00 Foot of slope, and continue over nearly level land.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen, is 2 lks; position of middle point-

By 1st set, 40.01 chs.  
By 2nd set, 39.99 chs.; the mean of which is

40.00 N. 1 lk. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, to bedrock, with a stone 12 x 6 x 4 ins., marked X deposited alongside, and in a mound of stone to top, for standard ¼ sec. cor., with brass cap mkd.

S C  
¼ S 36

1934

49.30 Wash, 20 lks. wide, 3 ft. deep, course SE.

Diff bet. meas. of 80.00 chs., by two sets of chainmen, is nothing;

80.00 On the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with a stone 18 x 10 x 5 ins., marked X, deposited at base, for standard cor. of secs. 35 and 36, with brass cap mkd.

S C  
T9S R11W  
S 35 | S 36

1934

Land, gently rolling and level.  
Soil, rocky and gravelly, 3rd. and 2nd. rate.  
Timber, scattered palo verde, ironwood and mesquite; undergrowth, greasewood and cacti.

2ND. STAN. PAR. S., S. BDY., T. 9 S., R. 11 W.

BOOK 4066

chains

West, along the S. bdy. of sec. 35, on a transit line describing the secant, which bears N.89°58.9'W.

Over gently rolling land, through scattered timber and undergrowth.

18.50 Wash, 20 lks. wide, 3 ft. deep. course NW.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;

40.00 S. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a stone 12 x 8 x 6 ins., marked X deposited at base, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 35

1934

45.00 Asc. 100 ft. over an increasing E. slope.

55.45 Spur, slopes N.; desc. 125 ft. over NW. slope.

70.00 Foot of slope; continue over rolling land.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen. is 4 lks.; position of middle point-

By 1st set, 80.02 chs.

By 2nd set, 79.98 chs.; the mean of which is

80.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, with a stone 14 x 9 x 6 ins., marked X deposited at base, for standard cor. of secs. 34 and 35. with brass cap mkd.

S C  
T9S | R11W  
S 34 | S 35

1934

Land, rolling and hilly.

Soil, gravelly and rocky, 2nd. and 3rd rate.

Timber, scattered palo verde, ironwood and mesquite; undergrowth, greasewood and cacti.

West, along the S. bdy. of sec. 34, on a transit line describing the secant, which bears N.89°59.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen. is nothing;

40.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a stone 10 x 8 x 6 ins., marked X deposited alongside, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

chains

$$\begin{array}{c} S C \\ \frac{1}{4} S 34 \end{array}$$

1934

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is nothing;

80.00 S. 3 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 29 ins. in the  
ground, with a stone 14 x 10 x 10 ins., marked X deposit-  
ed alongside. for standard cor. of secs. 33 and 34. with  
brass cap mkd.

$$\begin{array}{c} S C \\ T9S \quad R11W \\ \hline S 33 \quad | \quad S 34 \end{array}$$

1934

Land, nearly level.  
Soil, gravelly and sandy, 2nd. rate.  
Timber, scattered ironwood, palo verde and mesquite;  
undergrowth, greasewood and cacti.

-----  
West, along the S. bdy. of sec. 33, on a transit line  
describing the secant, which bears West.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the  
ground, with a stone 10 x 8 x 3 ins., marked X deposited  
at base, for standard  $\frac{1}{4}$  sec. cor.. with brass cap mkd.
$$\begin{array}{c} S C \\ \frac{1}{4} S 33 \end{array}$$

1934

Diff. bet. meas. of 80.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 S. 2 lks. from the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the  
ground, with a stone 10 x 4 x 4 ins., marked X deposited  
at base, for standard cor. of secs. 32 and 33. with brass  
cap mkd.

$$\begin{array}{c} S C \\ T9S \quad R11W \\ \hline S 32 \quad | \quad S 33 \end{array}$$

1934

## Independent Resurvey of the

17

2ND. STAN. PAR. S., S. BDY., T.9 S., R.11 W.

BOOK 4060

chains

Land, nearly level.  
Soil, gravelly and sandy, 2nd and 1st rate.  
Timber, scattered mesquite and ironwood; undergrowth,  
greasewood and cacti.

-----  
West, along the S. bdy. of sec. 32, on a transit line  
describing the secant, which bears S.89°59.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is 2 lks.; position of middle point-

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 S. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 29 ins. in the  
ground, with a stone 14 x 10 x 2 ins., marked X deposited  
at base, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 32

1934

Diff. bet. meas. of 80.00 chs., by two sets of chainmen,  
is 2 lks.; position of middle point-

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 On the secant.

Set an iron post, 3 ft. long, 2 ins. diam., 29 ins. in the  
ground, with a stone 16 x 7 x 6 ins., marked X deposited  
at base, for standard cor. of secs. 31 and 32, with brass  
cap mkd.

S C  
T9S R11W  
S 31 | S 32

1934

Land, nearly level.  
Soil, gravelly and sandy, 2nd and 1st rate.  
Timber, scattered mesquite; undergrowth, greasewood and  
cacti.

-----  
West, along the S. bdy. of sec. 31, on a transit line  
describing the secant, which bears S.89°58.4'W.

Over level land, through scattered undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen.  
is nothing;

40.00 N. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the  
ground, with a stone 12 x 10 x 4 ins., marked X deposited  
at base, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

chains

S C  
 $\frac{1}{4}$  S 31

1934

68.30 Old road, bears SE. and NW. to Aztec.

Diff. bet. meas. of 80.00 chs., by two sets of chainmen, is nothing;

80.00 N. 3 lks. from the secant.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, with a stone 16 x 12 x 6 ins., marked X, deposited at base, for standard cor. of Tps. 9 S., Rs. 11 and 11 $\frac{1}{2}$  W., with brass cap mkd.

S C  
T9S  
R11 $\frac{1}{2}$ W | R11W  
S 36 | S 31

1934

Land, nearly level.

Soil, gravelly and sandy, 2nd and 1st rate.

No timber; undergrowth; greasewood and cacti.

-----  
Independent Resurvey of the  
2ND. STAN. PAR. S., S. BDY. T.9 S., R.11 $\frac{1}{2}$  W.  
-----

West, with the establishment of the 2nd standard parallel south, along the S. bdy. of sec. 36, T.9 S., R.11 $\frac{1}{2}$  W. on a transit line describing the secant, which starts at a point 3 lks. S. of Tp. cor., and bears N.89°58.4'W.

Over level land, through scattered timber and undergrowth.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen, is nothing;

40.00 N. 1 lk. from the secant.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a stone 12 x 10 x 3 ins., marked X, deposited at base, for standard  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S C  
 $\frac{1}{4}$  S 36

1934

Diff. bet. meas. of 57.37 chs., by two sets of chainmen, is nothing;

57.37 N.  $\frac{1}{2}$  lk. from the secant.

Intersect E. bdy. of sec. 1, T.10 S., R.12 W.

Set an iron post, 3 ft. long, 3 ins. diam., 29 ins. in the ground, for closing standard cor. of T.9 S., R.11 $\frac{1}{2}$  W., with brass cap mkd.

Independent Resurvey of the

2ND. STAN. PAR. S., S. BDY., T.9 S., R.11 1/2 W.

BOOK 400

chains

S C
T 9 S
R 11 1/2 W
S 36

C C

1934

18 x 18 x 12 ins., E., N. and S. of cor., 3 ft. dist. dig pits.

From point of intersection the NE. cor. of T.10 S., R.12 W. bears N.0°15'W., 10.97 chs. dist.; a mesquite stake, 2 1/2 ins. square, 3 ft. long, illegibly marked, firmly driven in the ground. In place of the stake, which is deposited alongside.

Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for NE. cor. of T.10 S., R.12 W., with brass cap mkd.

T9S R11 1/2 W
S 36

S 1
T10S
R12W

1934

18 x 18 x 12 ins., S. and W. of cor., 3 ft. dist. dig pits.

From the same point the 1/4 sec. cor. on the E. bdy. of sec. 1. bears S.0°15'E., 29.14 chs. dist.; a redwood post, 2 x 3 ins., 3 ft. above ground, loosely set, mkd. 1/4 on the W. side. In place of the post, which is deposited alongside.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for 1/4 sec. cor., with brass cap mkd.

1/4
S 1   S 6

1934

18 x 18 x 12 ins., N. and S. of cor., 3 ft. dist. dig pits.

From the NE. cor. of T.10 S., R.12 W., above described, the standard cor. of Tps.9 S., Rs.11 1/2 and 12 W., bears S.89°22'W., 20.46 chs. dist.; an ironwood post, 5 ins. square, firmly set, 3 ft. above ground, visibly but illegibly marked.

Land, nearly level.  
Soil, gravelly and sandy, 2nd and 1st rate.  
Timber, scattered ironwood and mesquite; undergrowth, greasewood and cacti.

GENERAL DESCRIPTION

The land along this line varies from mountainous and rolling in the vicinity of the S. bdy. of sec. 36, T. 9 S., R. 8 W., and in the vicinity of the S. bdy. of secs. 31 to 34, T. 9 S., R. 10 W., and the S. bdy. of Secs. 35 and 36, T. 9 S., R. 11 W., to nearly level along the remainder of the line.

Independent Resurvey of the

BOOK 2066

2ND. STAN. PAR. S., S. BDY., T. 9 S., R. 11 1/2 W.

chains

The soil varies from rocky, 3rd and 4th rates, along the mountainous and rolling portion to sandy and gravelly, 1st and 2d rates, along the remainder of the line.

The timber along the line consists of scattered palo verde, ironwood and mesquite, while the undergrowth consists of greasewood and cacti.

No springs or indications of mineral were observed in running the line.

4-680  
(August, 1926)

PAID 1000

**FIELD ASSISTANTS.**

NAMES.	CAPACITY.
Bert E. Wakeman	First Chainman
H.A. Weedon	Second Chainman
John Ludtke	Second Chainman
Ed. A. Kyle	Second Chainman
Albert Blevins	Flagman
Albert Jennings	Axman
Priest High	Cornerman

22 142  
BOOK 4008

CERTIFICATE OF UNITED STATES SURVEYOR

I, Walter H. Good, U.S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 12th day of December, 1933, 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, independently resurveyed the 2nd Standard Parallel South, through Ranges 8, 9, 10, 11 and 11 1/2 West,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said <sup>re</sup> survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such <sup>re</sup> survey.

*Walter H. Good*

U. S. Surveyor  
Gila Bend, Arizona,  
February 25, 1934.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, May 28, 1935., ~~19~~

The foregoing field notes of the independent resurvey of the 2nd Standard Parallel South, through Ranges 8, 9, 10, 11 and 11 1/2 West, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Walter H. Good, U.S. Surveyor under his special instructions dated December 12, 1933, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the <sup>re</sup> surveys they describe, are hereby approved.

*Walter H. Good*  
U. S. Supervisor of Surveys.

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

U. S. Supervisor of Surveys.