

3276

Book "A"

4-679

231
ORIG 1

BOOK 3276

FIELD NOTES

OF THE SURVEY OF THE

Part of North boundary, and

Part of Subdivisions of

TOWNSHIP 27 NORTH, RANGE 6 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Thomas B. Matthews.

In the capacity of U. S. Surveyor..., under Special Instructions dated January 5, 1916, issued by the United States Surveyor General to govern surveys included in Group No. 67, which were approved by the Commissioner of the General Land Office, January 22, 1916, and Assignment Instructions dated March 20, 1917

Survey commenced April 12, 1917.

Survey completed April 16, 1917.

3276

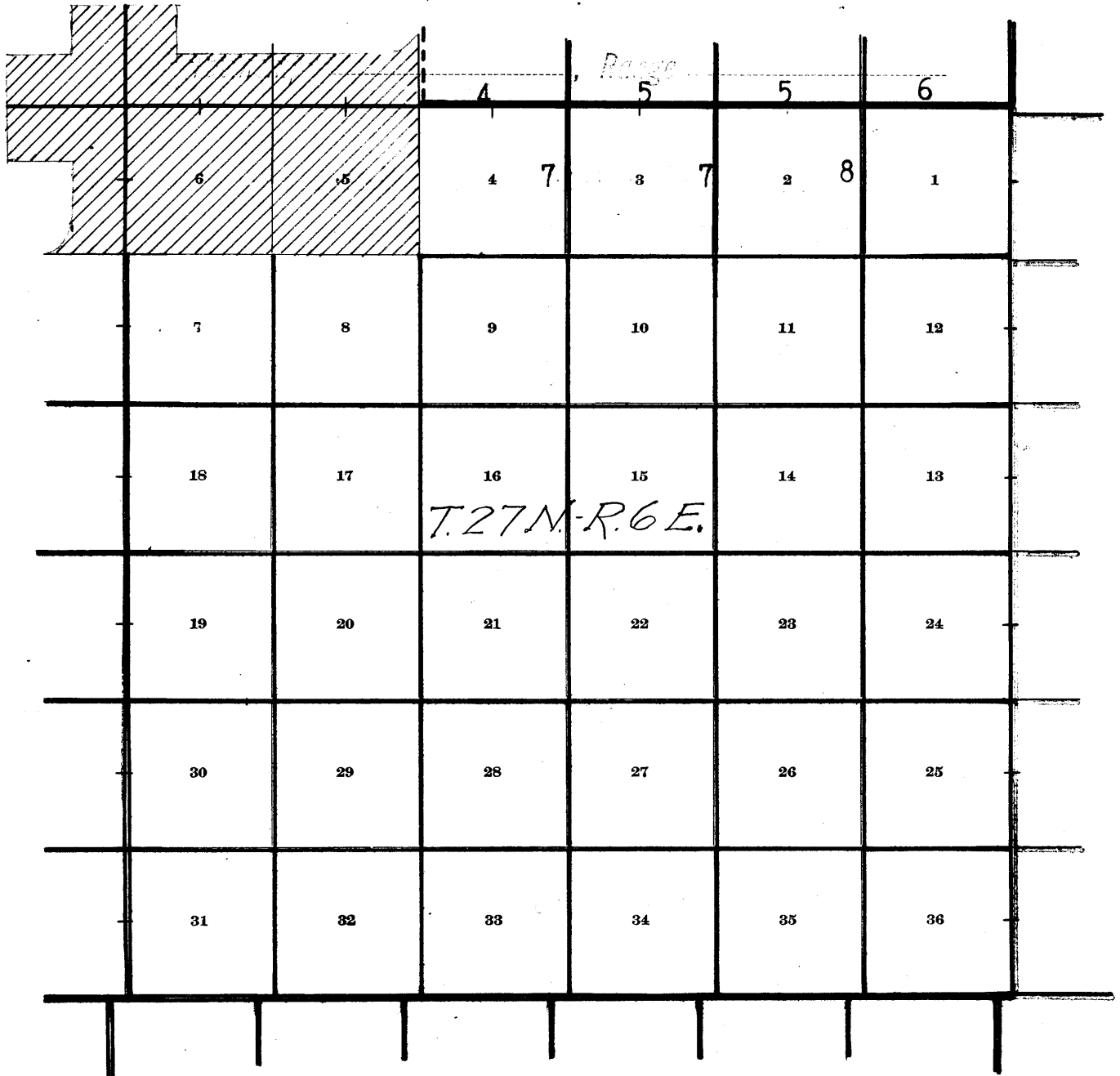
3276

BOOK 3276

3276
Book "A"

Group 67 - - - Arizona.

INDEX DIAGRAM.

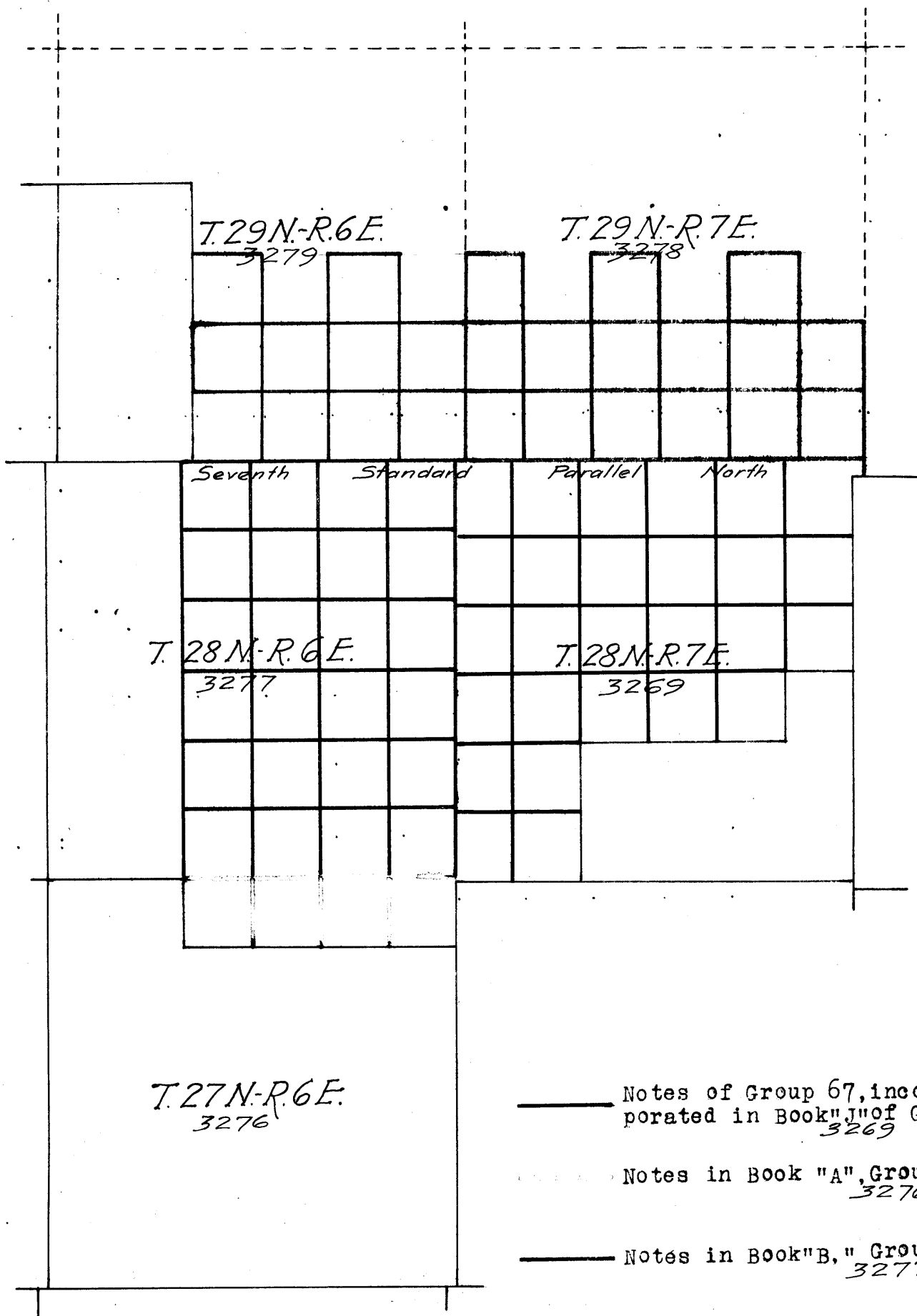


- Lines surveyed under this group.
- Lines resurveyed under this Group.
- ==== Lines surveyed under Group 66.
- ===== Lines surveyed under Group 55.
- Accepted surveys.
- //// Areas surveyed as per accepted plats on file.

GENERAL INDEX DIAGRAM.

Group 67 - - - - - Arizona.
3276-3279
and 3269 of Group 66

BOOK 3276



T.27N-R.6E.
3276

Notes of Group 67, incorporated in Book "J" of Grp. 66
3269

Notes in Book "A", Group 67.
3276

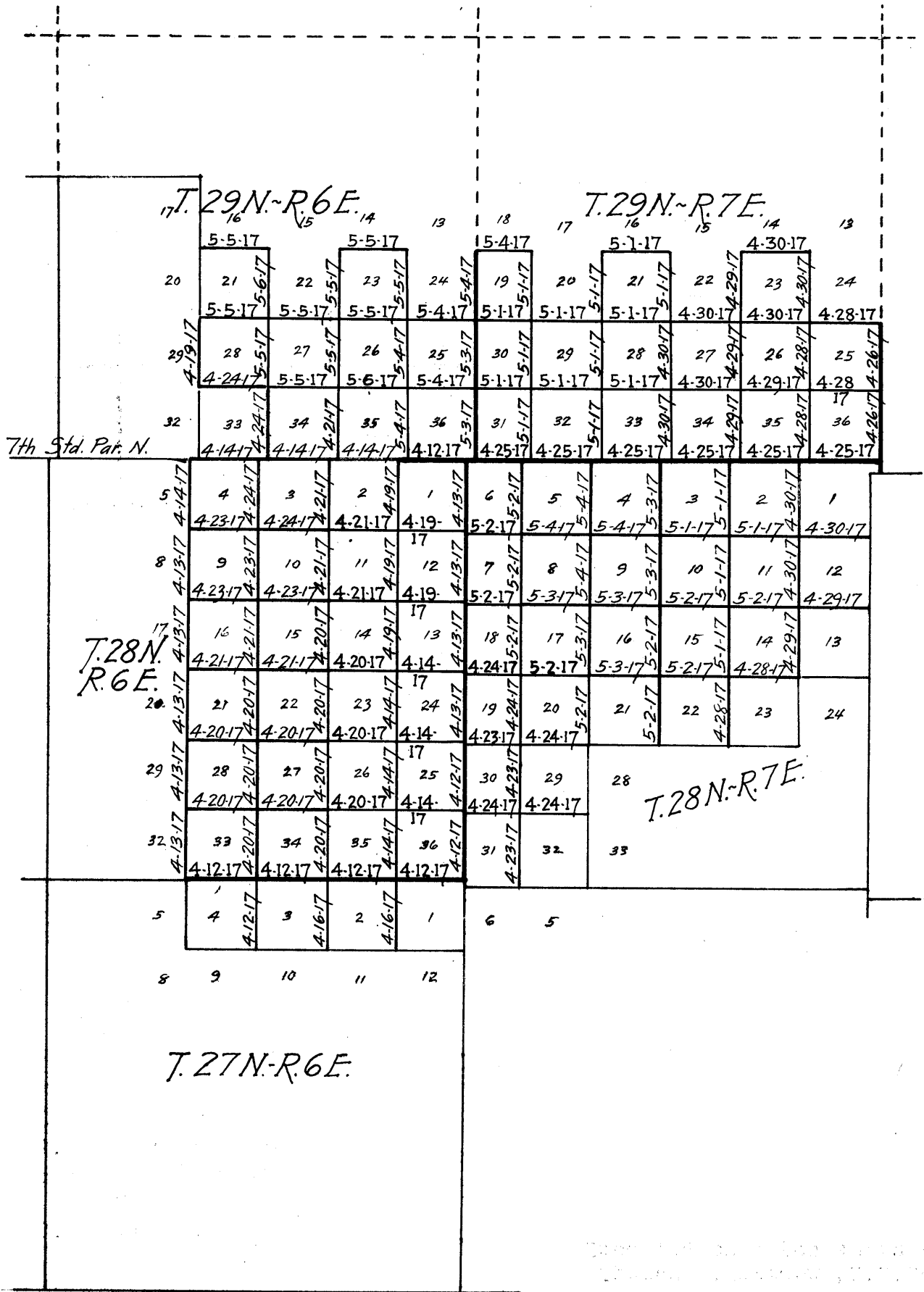
Notes in Book "B", Group 67.
3277

Notes in Book "C", Group 67.
3278

Notes in Book "D", Group 67.
3279

GENERAL DATE DIAGRAM.

BOOK 3276 Group 67 - - - - - Arizona.



Executed on dates shown by Thomas B. Matthews, U. S. Surveyor.

Executed on dates shown by Elmer F. Strickler, U. S. Transitman.

Surveys and Resurveys T. 28 N., R. 6 E.
Subdivision of Group 67, Arizona, 6 E.

Chains

Surveys executed on dates shown, on diagram on page 2 hereof by Thomas B. Matthews, U.S. Surveyor, using Buff & Buff light mountain transit No. 10124, and Elmer F. Strickler, using a Young and Sons light mountain transit No. 8588, both instruments being equipped with Smith solar attachments.

The instruments are equipped with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved by the Assistant Supervisor of Surveys, District No. 5, conditional upon subsequent satisfactory field tests.

Field test of transit No. 10124 and solar attachment is as follows.

April 11, 1917, at camp in sec. 23, T. 28 N., R. 6 E., latitude $35^{\circ} 48'$ N., longitude, $111^{\circ} 43' 22''$ W., examine the adjustments of the transit and correct the level and collimation errors. Then to test the solar attachment by comparing its indications resulting from solar observations made during p. m., and a. m. hours, on a meridian determined by observations on Polaris, proceed as follows. At 4h. 0m., p.m. l.m.t., set off $35^{\circ} 48'$ N. on the latitude arc; $8^{\circ} 24'$ N. on the declination arc, and determine a meridian with the solar. Mark a point on the meridian thus determined by a groove cut on a rock set 5 chs. N. of instrument.

At 6h. 7m., p.m., l.m.t., observe Polaris at western elongation in accordance with instructions in the Manual of Surveying, and turn off the azimuth of Polaris, $1^{\circ} 24'$ to the east. The meridian thus determined, intersects the groove on the rock, marking the meridian as defined by solar observations.

April 12, 1917, at 8h. 0m., a.m. l.m.t., set off $35^{\circ} 48'$ N. on the latitude arc; $8^{\circ} 38\frac{1}{2}'$ N. on the declination arc, and determine a meridian with the solar. The meridian thus determined intersects the mark on the rock, defining positions of the meridians determined by observations on Polaris and p.m. solar observations. Therefore conclude that the adjustments of the transit and solar attachment are satisfactory.

Field test of transit No. 8588 and solar attachment is as follows.

April 10, 1917, at camp in sec. 23, T. 28 N., R. 6 E., latitude $35^{\circ} 48'$ N., longitude, $111^{\circ} 43' 22''$ W., examine the adjustments of the transit and correct the level and collimation errors. Then to test the solar attachment by comparing its indications resulting from solar observations made during a.m. and p.m. hours on a meridian determined by observations on Polaris, proceed as follows. At 6h. 12 $\frac{1}{2}$ m. p.m., l.m.t., observe Polaris, at western elongation in accordance with instructions in the Manual of Surveying, and mark a point in the line thus determined, with a tack in a stake driven in the ground 5 chs. N. of instrument.

April 11, 1917, at 7h. 30m., a.m. l.m.t., turn off the azimuth of Polaris, $1^{\circ} 24'$ to the E. and mark the meridian thus determined by a stake driven in the ground 5 chs. N. of instrument. At 8h., a.m., l.m.t., set off $35^{\circ} 48'$ N. on the latitude arc; $8^{\circ} 16\frac{1}{2}'$ N. on the declination arc, and determine a meridian with the solar. The meridian thus determined coincides within one minute of arc of that established by observations on Polaris.

At 4h., p.m., l.m.t., set off $35^{\circ} 48'$ N. on the latitude arc; $8^{\circ} 24'$ N. on the declination arc, and determine a meridian with the solar. The meridian thus determined falls within one minute of arc of the meridian determined by observations on Polaris. Therefore conclude that the adjustments of the transit and

Survey of Portion of N. Bdy. of T. 27 N., R. 6 W.

Chains

solar attachment are satisfactory. Throughout the survey of this group, these instruments were frequently tested on an established meridian and adjustments made, to insure results to be well within the prescribed allowable limits. Clinometers and 5 chain tapes, were the instruments employed in determining all measurements.

--000--

Survey of Portion of North Bdy. of T. 27 N., R. 6 W.

From the cor. of secs. 4, 5, 32 and 33, N. bdy. of Tp., which is a limestone, 8 X 12 X 12 ins., above ground, firmly set, mkd. and witnessed as described by the Surveyor General,

East on a random line setting temp. 1/4 sec. and sec. cors. at intervals of 40 and 80 chs. and at 3 miles, 79.68 chs. intersect N. and S. line, 208 lks. N. of cor. of Ts. 27 and 28 N., R. 7 E., which is an iron post, 3 ins. diam., properly set, mkd. and witnessed as described by the Surveyor General.

At the point of intersection

Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, for cor. of Ts. 27 and 28 N., R. 6 E., mkd. on brass cap

T28N
R 6E
S36 | R 7E
S 1
T27N
1917

Thence

From the cor. of secs. 4, 5, 32 and 33, N. bdy. of Tp., hereinbefore described,

East on a true line bet. secs. 4 and 33.

Over rolling land, through scattering timber and undergrowth.

39.68 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., mkd. on brass cap

1/4 S 33
S 4
1917

from which,

A pinion, 12 ins. diam., brs. N. 67° E. 108 lks. dist. mkd. 1/4 S 33 B T.

A pinion, 20 ins. diam., brs. S. 59° E. 35 lks. dist. mkd. 1/4 S 4 B T.

60.00 Leave timber; thence across open land.

71.00 Wagon road brs. N. and S.

79.68 Set an iron post, 3 ft. long, 3 ins. diam., 20 ins. in the ground, in a mound of stone, for cor. of secs. 3, 4, 33 and 34, mkd. on brass cap

T28N R 6E
S33 | S34
S 4 | S 3
1917

Survey of Portion of North Bdy. of T. 27 N. R. 6 E.

Chains

from which,
 A pinion, 12 ins. diam., brs. N. $86\frac{1}{4}^\circ$ E.
 351 lks. dist. mkd. T 28 N R 6 E S 34 B T.
 A pinion, 8 ins. diam., brs. S. $66\frac{3}{4}^\circ$ E.
 240 lks. dist. mkd. T 27 N R 6 E S 3 B T.
 A pinion, 10 ins. diam., brs. S. $81\frac{1}{2}^\circ$ W.
 131 lks. dist. mkd. T 27 N R 6 E S 4 B T.
 A pinion, 12 ins. diam., brs. N. 14° W.
 45 lks. dist. mkd. T 28 N R 6 E S 33 B T.

Land, rolling and level.
 Soil, thin, rocky loam, 1 ft. deep; undersoil, gravelly.
 Timber, cedar and pinion.
 Undergrowth, tumble weed, brigham brush, spanish dagger.
 Short grass.

East bet. secs. 3 and 34.
 Over gently rolling land, through scattering undergrowth
 and thinly scattering timber.

20.30
40.00

Desc. gradually.
 Dry, shallow wash, course SE. Asc. gradual slope.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$ S 34
 S 3
 1917

from which,
 A pinion, 12 ins. diam., brs. N. 45° E.
 33 lks. dist. mkd. $\frac{1}{4}$ S 34 B T.
 A pinion, 14 ins. diam., brs. S. $89\frac{1}{2}^\circ$ E.
 70 lks. dist. mkd. $\frac{1}{2}$ S 3 B T.

80.00

Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the
 ground, in a mound of stone, for cor. of secs. 2, 3,
 34 and 35, mkd. on brass cap

T 28 N R 6 E
 S 34 | S 35
 S 3 | S 2

1917

from which,
 A pinion, 12 ins. diam., brs. N. 29° W.
 420 lks. dist. mkd. T 28 N R 6 E S 34 B T.
 No other trees within limits. Raise a mound of stone 3 ft.
 base, 2 ft. high, W. of cor.

Land, gently sloping.
 Soil, thin, sandy, rocky loam, 1 ft. deep to bedrock.
 Timber, cedar and pinion.
 Undergrowth, tumble weed, brigham brush and greasewood.
 Short grass.

30.00
35.00
37.70
40.00

East bet. secs. 2 and 35.
 Over rolling land, through scattering undergrowth and timber.

Descend 21 ft. to
 Right edge of draw, brs. N. & S. Desc. 27 ft. to
 Bottom edge of draw, course S. Asc. 21 ft. to
 Left edge of draw, brs. N. & S. Asc. 14 ft. to
 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$ S 35
 S 2
 1917

6 4 survey of Portion of North Bdy. of T. 27 N., R. 6 E.

Chains 80.00	<p>and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Set an iron post, 3 ft. long, 3 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 1, 2, 35 and 36, mkd. on brass cap</p> <p style="text-align: center;">T28N R 6E S35 S36 S 2 S 1 1917</p> <p>and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, rolling, broken. Soil, thin, rocky loam, 12 ins. deep. Timber, pinion and cedar: low brush and greasewood. Undergrowth, tumble weed, brigham brush and greasewood. Short grass.</p>
40.00	<p>East bet. secs. 1 and 36. Over gently rolling land, through scattering timber and undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap</p> <p style="text-align: center;">$\frac{1}{4}$ S 36 S 1 1917</p> <p>from which, A cedar limb, 8 ins. diam., brs. S. $82\frac{1}{2}^\circ$ W. 504 lks. dist. mkd. $\frac{1}{4}$ S 1 B T. A pinion, 8 ins. diam., brs. N. 60° W. 165 lks. dist. mkd. $\frac{1}{4}$ S 36 B T.</p>
80.00	<p>The cor. of Ts. 27 and 28 N., R. 6 E., hereinbefore described. Land, gently rolling. Soil, thin, rocky loam, 12 ins. deep. Undergrowth, tumble weed, brigham brush and greasewood. Timber, scattering pinion and cedar. Short grass.</p>
Boundaries of that portion of T. 27 N., R. 6 E., subdivided under this Group.	

Latitudes, Departures, and Closing Errors.

Lines designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional boundary.	West, N. $0^\circ 3' W$	320.00 80.00	80.00			320.00 .07
North boundary,	East,	319.68			319.68	
East boundary,	South,	80.21		80.21		
Convergency,					.06	
	Totals,		80.00	80.21	319.74	320.07
				80.00		319.74
	Error in latitude,			.21		
	Error in departure,					.23

Survey of Portion of Subdivision of T. 27 N. R. 6 E.

Chains

From the cor. of secs. 3, 4, 9 and 10, which is an iron post, 2 ins. diam., properly set, mkd. and witnessed as described by the Surveyor General,

Thence
 N. 0° 2' W. on a random line bet. secs. 3 and 4.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.15 Intersect N. bdy. of Tp., 32 lks. E. of cor. of secs. 3, 4, 33 and 34, hereinbefore described.

Thence
 S. 0° 16' E. on a true line bet. secs. 3 and 4.
 Over level land, through scattering timber and undergrowth.
 40.15 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$
 S 4 | S 3
 1917

from which,
 A pinion, 9 ins. diam., brs. N. 51° E.
 38 lks. dist. mkd. $\frac{1}{4}$ S 3 B T.
 A pinion, 13 ins. diam., brs. S. 31 $\frac{1}{2}$ ° W.
 38 lks. dist. mkd. $\frac{1}{4}$ S 4 B T.

56.45 Desc. 173 ft. to Wash, 1 ch. wide, (Denton Sears canyon) course E. Asc. N. slope. 111 ft. to
 61.35 Desc. gradual SE. slope, 80 ft. to
 80.15 The cor. of secs. 3, 4, 9 and 10.
 Land, N. half mile level, remainder broken.
 Soil, thin, rocky loam, 1 ft. deep; under soil, gravelly.
 Timber, thinly scattered cedar and pinion in N. half.
 Undergrowth, brigham brush, greasewood and dagger brush.
 Short grass.

40.00 From the cor. of secs. 2, 3, 10 and 11, which is an iron post, 2 ins. diam., properly set, mkd. and witnessed as described by the Surveyor General,
 80.31 N. 0° 2' W. on a random line bet. secs. 2 and 3.
 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. bdy. of Tp., 25 lks. E. of cor. of secs. 2, 3, 34 and 35, hereinbefore described.

Thence
 S. 0° 13' E. on a true line bet. secs. 2 and 3.
 Over rolling broken land, through scattering timber and undergrowth.

30.10 Desc. gradual SW. slope. Enter wash, course E. from NW. Thence in wash to
 32.00 Leave wash, 20 lks. wide, course SE. from N. Asc. gradual NW. slope.

34.30 Rocky point slopes W. Desc. rocky SW. slope, to
 38.40 Rocky wash, 20 lks. wide, course SE. Asc. 22 ft. to
 40.31 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$
 S 3 | S 2
 1917

from which,
 A pinion, 14 ins. diam., brs. N. 40° E.
 101 lks. dist. mkd. $\frac{1}{4}$ S 2 B T.
 A pinion, 12 ins. diam., brs. S. 23° W.
 222 lks. dist. mkd. $\frac{1}{4}$ S 3 B T.

44.30 Canyon course SE. Asc. NE. slope, 37 ft. to
 45.00 Thence over level land.
 80.31 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling and level.
 Soil, thin, rocky loam, 12 ins. deep, gravelly subsoil.
 Timber, scattering pinion and cedar on N. quarter mile.

survey of. Subdivision of portion of T. 27 N., R. 6 E.

Chains

Undergrowth, tumble weed, brigham brush and greasewood.
Short grass.

From the cor. of secs. 1, 2, 11 and 12, which is an iron post, 2 ins. diam., properly set, mkd. and witnessed as described by the Surveyor General, a flag at the cor. of secs. 1, 2, 35 and 36, N. bdy. of Tp., is plainly visible,

Thence

N. 0° 11' W. on a random line for distance only, bet. secs. 1 and 2.

40.00 Set temp. 1/4 sec. cor.

80.34 Intersect the cor. of secs. 1, 2, 35 and 36, N. bdy. of Tp., hereinbefore described.

Thence

S. 0° 11' E. on a true line bet. secs. 1 and 2.

40.34 Over level open land, through scattering undergrowth. Set an iron post, 3 ft. long; 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., mkd. on brass cap



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

80.34 The cor. of secs. 1, 2, 11 and 12.

Land, level.

Soil, thin, rocky loam, 14 ins. deep; gravelly subsoil.

Timber, none.

Undergrowth, brigham brush and greasewood.

Short grass.

GENERAL DESCRIPTION.

The portion of T. 27 N., R. 6 E., subdivided as described in the foregoing notes completes the subdivision of the Tp., secs. 5 and 6 having been surveyed in 1900, and the remainder of the previously surveyed secs. were surveyed in 1915. The surface is level, rolling and broken, with a scattering growth of timber and undergrowth, and a growth of short grass. The soil is a rocky loam, 12 ins. deep, on gravel subsoil. There is no permanent water in these sections, no settlers, or improvements and no indications of valuable mineral deposits. One road traverses sec. 4, course northerly and southerly.

4-680

FIELD ASSISTANTS. to

Elmer F. Strickler, U.S. Transitman.

NAMES.	CAPACITY.
S. H. Fowler,	1st chairman,
Fred Hayes,	2nd chairman,
John J. Sullivan,	Cornerman & axman,
Ernest Lundahl,	Cornerman & axman,
Anthony Zeh,	Axman.
Wm. E. Bryant,	Flagman, axman.

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~ ^{TRANSITMAN}

I, Elmer F. Strickler, U. S. ~~Surveyor~~ ^{Transitman}, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 67, Arizona

bearing date of the 5th day of January, 1916, 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, ^{re-} surveyed all those parts or portions of the

7th Standard Parallel North, in Range 6 East, and subdivision lines of Ts. 28 and 29 N., Rs. 6 East, and surveyed all those parts or portions of the subdivision lines of Ts. 28 and 29 North, Rs. 6 East,

of the Gila and Salt

River Base nd Meridian, in the State of Arizona, which are represented in and by the diagram on page 2 hereof

the foregoing field notes, ^{re-} as having been executed by me, and under my direction; and that all the corners of said ^{re-} 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 67, Arizona

and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{re-} survey and survey.

Elmer F. Strickler
U. S. Surveyor.
Transitman.

APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of

executed by

under his special instructions dated, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

4-680

BOOK 3276

FIELD ASSISTANTS. to

Thomas B. Matthews, U. S. Surveyor.

NAMES.	CAPACITY.
Ben J. Kinsey,	1st chainman,
M. A. Rennie	2nd chainman,
W. H. Hyde,	Axman,
Steven Hayes,	Flagman,
W. Ol Snider	Cornerman,
Frank B. Quirk,	Flagman,
Bert H. Johnson,	Cornerman,
Walter Lacroix	Cornerman,
Ed. Green,	Cornerman.

CERTIFICATE OF UNITED STATES SURVEYOR.

Thomas B. Matthews, U. S. Surveyor, hereby certify upon honor that, in pursuance

of special instructions received from the U. S. Surveyor General for Group 67, Arizona,

bearing date of the 5th day of January, 1916, I have well, faithfully, and truly

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of the

7th. Std. Parallel North in Range 6 East, and surveyed all those
parts or portions of the 7th. Std. Parallel North, in Range 7 East.,
N. bdy. of T. 27 N., R. 6 E., E. bdy. T. 28 N., R. 6 E., E. bdy. T. 29 N., R. 7 E., & E.
bdy. T. 29 N., R. 6 E., and Subdivision lines of Ts. 27, 28, and 29 N., Rs. 6 E.,
and Ts. 28 and 29 N., Rs. 7 E.,

of the Gila and Salt

River Base and Meridian, in the State of Arizona,

and by the diagram on page 2 hereof
the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U. S. Surveyor General for Group 67, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of

such survey. and survey.

Thomas B. Matthews
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, February 8, 1919.

The foregoing field notes of the Survey of
Part of the North boundary and Part of the Subdivision lines of
Township 27 North, Range 6 East.

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

executed by Thomas B. Matthews, U. S. Surveyor, & Elmer F. Strickler, U. S. Transitman,

under special instructions dated January 5, 1916, for Group 67, Arizona, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the 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.