

2721

4-679

2721

SER. 2-1914

Book "B"

BOOK 2721

Standard Lines

FIELD NOTES

OF THE ~~RECONSTRUCTION~~ OF THE

SECOND STANDARD PARALLEL SOUTH

Thru Parts of Rs. 22 and 24 East

and

Third STANDARD PARALLEL SOUTH

Thru Range 25 and Part of 24 East

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Thomas B. Matthews

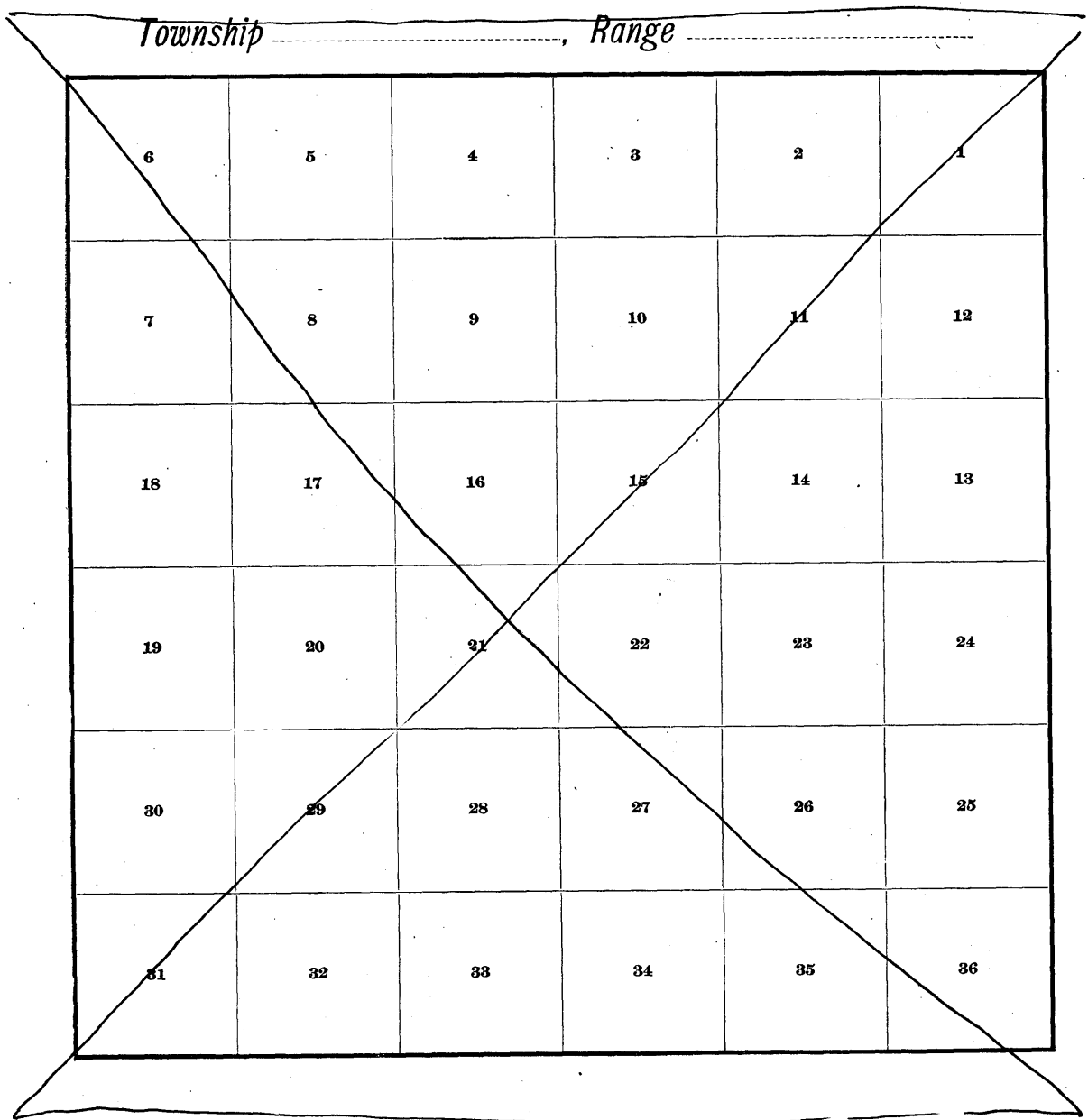
In the capacity of U. S. Surveyor, under instructions dated May 7, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 25, which were approved by the Commissioner of the General Land Office, May 15, 1913, pursuant to authority contained in the Act of Congress dated June 23, 1913

ReSurvey commenced July 13, 1913

ReSurvey completed January 18, 1914

INDEX DIAGRAM.

(see Special Index Diagram)

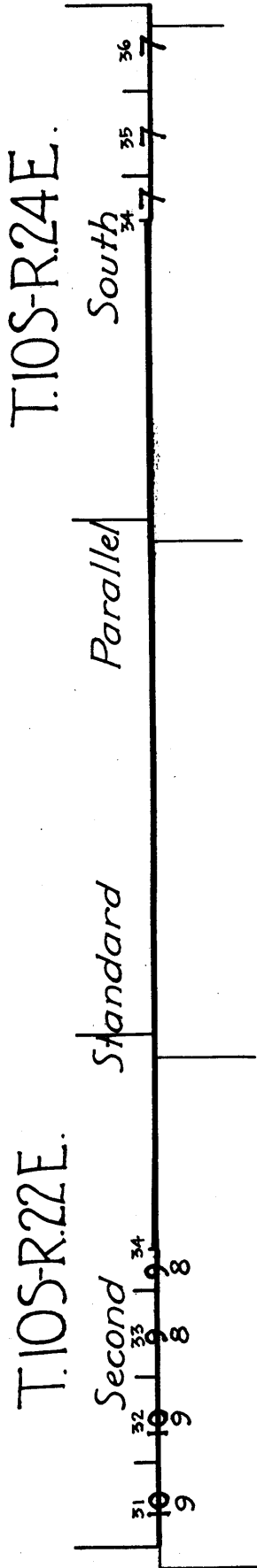


Book "B" (Group 25)

INDEX DIAGRAM

Standard Lines

- Book "B" Group 22. (2714)
- 2 Resurvey notes indexed in Black figures.
- 1 Retracement notes indexed in Red figures.



T.10S-R.22E.

Second

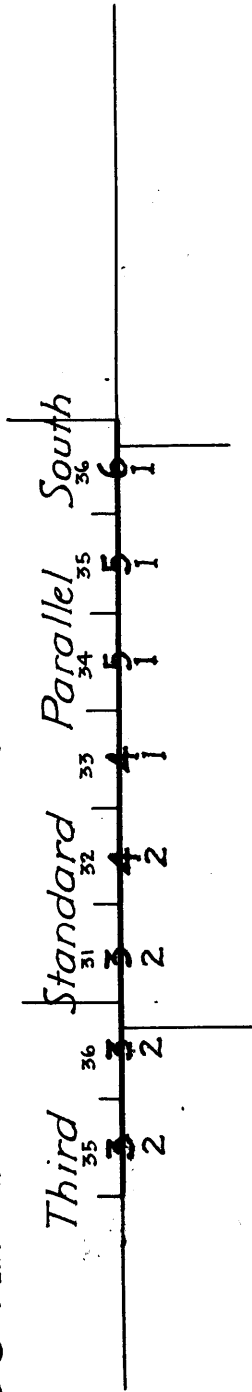
31 32 33 34

10 9 8

BOOK 2721

T.15S-R.25E.

T.15S-R.24E.



Third

31 32 33 34 35 36

3 2 4 5 6 1 1 1 2 2 2 2

RETRACEMENT OF THIRD STANDARD PARALLEL SOUTH THROUGH RANGE 25 EAST.

(13)

- Chains Retracement and resurvey commenced July 13th, 1913, and executed by Thomas B. Matthews, U. S. Surveyor, with Young and Sons' Light Mountain Transit No. 8480, previously described.
- I examine the adjustments of the transit and find them to be correct and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations, made during a. m. and p. m. hours, with a meridian established by observation on Polaris at elongation that the instrument is in satisfactory adjustment.
- At 7 h. 15 m., a. m., l. m. t., I set off $21^{\circ} 53\frac{1}{2}'$ N. on the decl. arc; $32^{\circ} 04\frac{1}{2}'$ on the lat. arc; and determine a meridian with the solar at the original standard cor. of T. 15 S., Rs. 25 and 26 E., which is a redwood post, 4x4x18 ins. above ground, firmly set, marks nearly obliterated.
- Thence I run
S. $89^{\circ} 53'$ W., on a random line, along the S. bdy. of sec. 36.
- 40.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find.
- 80.22 Fall 7 lks. N. of original standard cor. of secs. 35 and 36, which is a redwood post, 4x4x12 ins. above ground, firmly set and marked as described by the Surveyor-General.
- True course and distance of this mile is therefore N. $89^{\circ} 50'$ E., 80.22 chs.
-
- Thence I run
S. $89^{\circ} 53'$ W., on a random line along S. bdy. of sec. 35.
- 40.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find.
- 79.74 Fall 5 lks. N. of original standard corner of secs. 34 and 35, which is decayed remains of old redwood post, broken off level with surface of ground.
- True course and distance of this mile is, therefore, N. $89^{\circ} 51'$ E., 79.74 chs.
-
- Thence I run
S. $89^{\circ} 53'$ W., on a random line, along S. bdy. of sec. 34.
- 40.09 Fall 3 lks. N. of original standard $\frac{1}{4}$ sec. cor., which is a redwood post, 4x4x18 ins. above ground, firmly set and marked as described by the Surveyor-General.
- True course and distance of E. $\frac{1}{2}$ mile, S. bdy. sec. 34 is, therefore, N. $89^{\circ} 50'$ E., 40.09 chs.
- Thence I run
S. $89^{\circ} 53'$ W., from $\frac{1}{4}$ sec. cor., on a random line, along S. bdy. of sec. 34, on W. $\frac{1}{2}$ mile.
- 40.10 Fall 3 lks. N. of original standard cor. of secs. 33 and 34, which is decayed remains of old redwood post, broken off level with surface of ground.
- True course and distance of W. $\frac{1}{2}$ mile, S. bdy. sec. 34 is therefore, N. $89^{\circ} 50'$ E., 40.10 chs.
-
- Thence I run
S. $89^{\circ} 53'$ W., on a random line along S. bdy. of sec. 33.
- 40.06 Intersect original standard $\frac{1}{4}$ sec. cor., which is a redwood post, 4x4x18 ins. above ground, firmly set and marked as described by the Surveyor-General.
- True course and distance of E. $\frac{1}{2}$ mile, S. bdy. sec. 33 is, therefore, N. $89^{\circ} 53'$ E., 40.06 chs.
- Thence I run
S. $89^{\circ} 53'$ W., from $\frac{1}{4}$ sec. cor., on a random line along S. bdy. of sec. 33 on W. $\frac{1}{2}$ mile.
- 40.06 Intersect original standard cor. of secs. 32 and 33, which is a redwood post, 4x4x18 ins. above ground, firmly

RETRACEMENT OF THIRD STANDARD PARALLEL SOUTH, THROUGH RANGE 25 E.,

2. AND RETRACEMENT AND RESURVEY, THROUGH PART OF RANGE 24 E.

Chains set and marked as described by the Surveyor-General. True course and distance of W. $\frac{1}{2}$ mile, S. bdy. of sec. 33, is, therefore, N. $89^{\circ} 53'$ E., 40.06 chs.

Thence I run
 40.17 S. $89^{\circ} 53'$ W., on a random line along S. bdy. of sec. 32. Fall 11 lks. N. of original standard $\frac{1}{4}$ sec. cor., which is a redwood post, 4x4x8 ins. above ground, firmly set, and marked as described by the Surveyor-General. True course and distance of E. $\frac{1}{2}$ mile, S. bdy. sec. 32 is, therefore, N. $89^{\circ} 44'$ E., 40.17 chs.

Thence I run
 40.00 S. $89^{\circ} 53'$ W., from $\frac{1}{4}$ sec. cor., on a random line along S. bdy. of sec. 32, on W. $\frac{1}{2}$ mile. Make diligent search for original standard cor. of secs. 31 and 32, which I fail to find. Therefore, I continue my random line, S. $89^{\circ} 53'$ W., along S. bdy. of sec. 31

80.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I also fail to find.

119.25 Fall 19 lks. N. of standard cor. of T. 15 S., Rs. 24 and 25 E., previously re-established by me, as described in Book "A" page 17. True course and distance of line back to original standard $\frac{1}{4}$ sec. cor., S. bdy. sec. 32, is, therefore, N. $89^{\circ} 47'$ E., 119.25 chs.

July 13, 1913.

RETRACEMENT OF THIRD STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 24 EAST.

July 13, 1913.
 From the re-established standard corner of T. 15 S., Rs. 24 and 25 E., I run
 S. $89^{\circ} 53'$ W., on a random line along the S. bdy. of sec. 36.

40.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find.

80.00 Make diligent search for original standard cor. of secs. 35 and 36, which I fail to find; therefore, continue S. $89^{\circ} 53'$ W., on random line on S. bdy. of sec. 35.

120.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I also fail to find; continue random line, S. $89^{\circ} 53'$ W.

160.10 Fall 9 lks. S. of original standard cor. of secs. 34 and 35, which is a redwood post, 4x4x24 ins. above ground, loosely set, marks nearly obliterated. This old cor. being in a state of dilapidation, I destroy all trace of it and re-establish it in the same place, as follows:
 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with a brass cap, marked S C T 15 S R 24 E in N. and 1913 in S. half; S 34 in NW. and S 35 in N. E. quadrant. Dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

True course and distance of S. bdrs. of secs. 35 and 36 is, therefore, N. $89^{\circ} 55'$ E., 160.10 chs.

July 13, 1913.

RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 24 EAST.

July 13, 1913.
 From the re-established standard cor. of secs. 34 and 35

RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 24 EAST AND THROUGH RANGE 25 EAST.

Chains above described, I run
 N. 89° 55' E., on a true line along S. bdy. of sec. 35,
 as per course determined by above retracement.
 Over dry bed of old alkali lake.

40.025 Set an iron post, 3 ft. long, 1 in. in diam, 26 ins. in
 the ground, for re-established standard $\frac{1}{4}$ sec. cor., with
 a brass cap marked S C $\frac{1}{4}$ S 35 in N. and 1913 in S. half.
 Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.;
 and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N.
 of cor.

80.05 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in
 the ground, for re-established standard cor. of secs.
 35 and 36, with a brass cap marked S C T 15 S R 24 E in
 N. and 1913 in S. half, S 35 in N. W. and S 36 in N E.
 quadrant. Dig pits, 24x18x12 ins., crosswise on each
 line E. and W., 3 ft. and N. of post, 7 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high, N.
 of cor.
 Land, level.
 Soil, alkali.
 No vegetation.

Thence I run
 N. 89° 55' E., on a true line, along S. bdy. of sec. 36.
 Over dry bed of old alkali lake.

40.025 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
 the ground, for re-established standard $\frac{1}{4}$ sec. cor.,
 with a brass cap marked S C $\frac{1}{4}$ S 36 in N. and 1913 in S.
 half. Dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, N. of cor.

53.63 Intersect closing corner of T. 16 S., Rs. 24 and 25 E.,
 previously re-established by me and described in Book
 "A."

80.05 Intersect standard cor. of T. 15 S., Rs. 24 and 25 E.,
 previously re-established by me and described on page 16,
 Book "A."
 Land, level.
 Soil, alkali.
 No vegetation. July 13, 1913.

RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH RANGE 25 EAST.

July 13, 1913.
 From the re-established standard corner of T. 15 S., Rs.
 24 and 25 E., I run, as per course determined by re-
 tracement hereinbefore noted
 N. 89° 47' E., on a true line along S. bdy. of sec. 31.
 Over dry bed of old alkali lake.

25.00 Leave dry bed of old alkali lake, bears N. and S.

38.95 (Distance determined by proportion.) Set an iron post,
 3 ft. long, 1 in. in dia., 26 ins. in the ground, for
 re-established standard $\frac{1}{4}$ sec. cor., with brass cap
 marked S C $\frac{1}{4}$ S 31 in N. and 1913 in S. half. Dig pits,
 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise
 a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

54.00 N. W. cor. of wire fence bears S. 50 lks. dist., thence
 parallel to and N. of wire fence, over slightly rolling
 alkali land.

79.10 (Distance determined by proportion) Set an iron post, 3
 ft. long, 3 ins. in dia., 24 ins. in the ground, for
 re-established standard cor. of secs. 31 and 32, with
 brass cap marked S C T 15 S R 25 E in N. and 1913 in S.
 half; S 31 in N. W. and S 32 in NE. quadrant. Dig pits,
 24x18x12 ins., crosswise on each line, E. and W. 3 ft.
 and N. of post 7 ft. dist.; and raise a mound of earth,
 4 ft. base, 2 ft. high, N. of cor.

4. RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH RANGE 25 EAST.

Chains	Land, level and rolling. Soil, alkali, 12 ins. deep, on hard-pan sub-soil. Short salt grass. No timber.

	Thence I run N. 89° 47' E., on a true line along S. bdy. of sec. 32. Over slightly rolling alkali land, parallel to and north of wire fence.
40.15	Intersect original standard $\frac{1}{4}$ sec. cor., hereinbefore de- scribed, to perpetuate which I set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, alongside of this old cor., for the re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 32 in N. and 1913 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Thence I run N. 89° 44' E., from above described re-established stand- ard $\frac{1}{4}$ sec. cor., on true line along S. bdy. of sec. 32, E. $\frac{1}{2}$ mile.
5.00	Enter scattering mesquite brush, 3 to 4 ft. high, bears N. and S.
39.60	J. F. Fogerty's house bears S. 2 chs. dist.
40.17	Intersect original standard cor. of secs. 32 and 33, hereinbefore described, to perpetuate which I set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside of this old cor., for the re-established standard cor. of secs. 32 and 33, with brass cap marked S C T 16 S R 25 E in N. and 1913 in S. half; S 32 in NW. and S 33 in NE. quadrant. Dig pits, 24x18x12 ins., cross- wise on each line, E. and W. 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high N. of cor.
	Land, level. Soil, alkali and adobe, 12 ins. deep, on hard-pan sub-soil. Short salt grass. Scattering mesquite brush, 3 to 4 ft. high. No timber.

	Thence I run N. 89° 53' E., on true line along S. bdy. of sec. 33. Over level land, through mesquite brush, 3 to 6 ft. high, parallel to and 50 lks. N. of wire fence, along dim wagon road.
0.50	SW. cor. of wire fence, bears N. 50 lks. dist.; thence, through lane.
12.00	NE. cor. of wire fence bears S. 50 lks. dist.; leave lane, thence, parallel to and south of wire fence.
40.06	Intersect original standard $\frac{1}{4}$ sec. cor., hereinbefore de- scribed, to perpetuate which I set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, alongside this cor., for re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 33 in N. and 1913 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Thence I run N. 89° 53' E., from re-established standard $\frac{1}{4}$ sec. cor., above described, on true line along S. bdy. of sec. 33, E. $\frac{1}{2}$ mile.
11.50	NW. cor. of wire fence, bears S. 50 lks. dist.; thence, through lane, along dim wagon road.
20.00	Wire fence, bears N. and S. Corners of wire fences bear N. and S. 50 lks. dist. each; thence, parallel to and south of wire fence.
31.50	Phone line, bears N. 10° E. and S. 10° W. Cor. of wire fence bears N. 10 lks. dist.
32.00	Bend in wagon road, bears NE. and W.
40.06	Intersect original standard cor. of secs. 33 and 34,

RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH RANGE 25 EAST. 5.

<p>Chains</p>	<p>hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same and re-establish it in the same place, as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for standard cor. of secs. 33 and 34, with brass cap marked S C T 15 S R 25 E in N. and 1913 in S. half, S 33 in NW. and S 34 in NE. quadrant; dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, light adobe, 12 ins. deep, on hard-pan sub-soil. Good grass. Scattering mesquite brush, 3 to 4 ft. high. No timber.</p>
<p>27.00 39.00 39.50 40.10</p>	<p>----- Thence I run N. 89° 50' E., on true line along S. bdy. of sec. 34. Over level land, through mesquite brush, 3 to 6 ft. high. Leave mesquite brush, bears NW. and SE. Dim wagon road bears NW. and SE. SE. cor. of wire fence bears N. 10 lks. dist. Intersect original standard $\frac{1}{4}$ sec. cor., hereinbefore described, to perpetuate which I set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, alongside of old cor., for re-established <u>Std. $\frac{1}{4}$ sec.</u> cor., with brass cap marked S C $\frac{1}{4}$ S 34 in N. and 1913 in S. half; dig pits, 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
<p>12.00 40.07 40.09</p>	<p>Thence I run N. 89° 50' E., from re-established standard $\frac{1}{4}$ sec. cor., above described, on true line along S. bdy. of sec. 34, E. $\frac{1}{2}$ mile. Wire fence, bears N. and S. SE. cor. of wire fence, bears N. 3 lks. dist. Intersect original standard cor. of secs. 34 and 35, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap marked S C T 15 S R 25 E in N. and 1913 in S. half; S 34 in NW. and S 35 in NE. quadrant. Dig pits, 24x18x12 ins., crosswise, on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p>
<p>.50 11.00 39.87 51.00 51.50 52.00 70.00 79.20 79.74</p>	<p>Land, level. Soil, light adobe, 12 ins. deep on hardpan sub-soil. Good grass. Mesquite brush, 3 to 4 ft. high. No timber.</p> <p>----- Thence I run N. 89° 51' E., on a true line along S. bdy. of sec. 35. Over level land, along dim wagon road. SW. cor. of wire fence, bears N. 30 lks. dist.; thence, parallel to and S. of wire fence. NW. cor. of wire fence, bears N. 50 lks. dist. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 35 in N. and 1913 in S. half. Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. NE. cor. of wire fence, bears S. 50 lks. dist. Wagon road, turns S. Cor. of wire fence, bears S. 50 lks. dist. Enter mesquite brush, 3 to 6 ft. high, bears N. and S. SE. cor. of wire fence bears N. 50 lks. dist. Intersect original standard cor. of secs. 35 and 36,</p>

6. RESURVEY OF THIRD STANDARD PARALLEL SOUTH, THROUGH RANGE 25 EAST.

Chains hereinbefore described, to perpetuate which I set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside of old cor., for re-established standard cor. of secs. 35 and 36, with a brass cap marked S C T 15 S R 25 E in N. and 1913 in S. half; S 35 in NW. and S 36 in NE. quadrant. Dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

From the cor., A. F. Puff's house bears S. 3 chs. dist. Land, level.

Soil, light, sandy loam, medium texture, 12 ins. deep on clay sub-soil.

Short grass.

Scattering mesquite brush, 3 to 6 ft. high.

No timber.

Thence I run N. 89° 50' E., on a true line, along S. bdy. of sec. 36. Over level land, through mesquite brush, 3 to 6 ft. high, along wire fence.

11.50 NE. cor. of wire fence, bears S. 50 lks. dist.

40.11 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 36 in N. and 1913 in S. half. Dig pits, 18x18x12 ins., E. and W. of post 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high., N. of cor.

80.22 Intersect original standard cor. of T. 15 S., Rs. 25 and 26 E., hereinbefore described, to perpetuate which I set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside of old cor., for re-established standard cor. of T. 15 S., Rs. 25 and 26 E., with brass cap marked T 15 S in N. and 1913 in S. half; R 25 E S 36 in NW. and R 26 E S 31 in NE. quadrant. Dig pits, 30x24x12 ins., crosswise on each line, E. and W., 4 ft. and N. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor.

Land, level.

Soil, light sandy loam, medium texture, 12 ins. deep on clay sub-soil.

Short grass.

Scattering mesquite brush, 3 to 6 ft. high.

No timber.

Note: At the standard cor. of secs. 32 and 33, I set off 21° 51' N. on the decl. arc.; and at 12 h. 05 m. 28 s., p. m., 1. m. t., observe the sun on the meridian and obtain a reading of 32° 04' on lat arc.

July 13, 1913.

RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 24 EAST.

Resurvey commenced December 6, 1913, and executed by Thomas B. Matthews, U. S. Surveyor, with Young & Sons' Light Mountain Transit No. 8480. I examine the adjustments of the transit and find them to be correct and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a. m. and p. m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment.

At 9 h. 0 m., a. m., 1. m. t., I set off 22° 27 $\frac{1}{2}$ ' S. on the decl. arc; 32° 30 $\frac{1}{2}$ ' on the lat. arc.; and determine a meridian with the solar at the standard $\frac{1}{4}$ sec. cor. on the S. bdy. of sec. 34, T. 10 S., R. 24 E., re-established by me April 12, 1913, as described in Book "B" of notes of Group 22.

RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF R. 24 E. 7.

Chains Thence I run
 East, on S. bdy. of sec. 34, on true line, on W. $\frac{1}{4}$ mile.
 Over slightly rolling land, through scattering mesquite,
 brush, and yuccas, 3 to 7 ft. high.
 36.00 Dry, rocky wash, 30 lks. wide; 1 ft. deep, course, SW.
 40.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins.
 in the ground, for the re-established standard cor. of
 secs. 34 and 35, with brass cap marked S C T 10 S R 24
 E in N. and 1913 in S. half; S 34 in NW. and S 35 in NE.
 quadrant. Pits impracticable. Raise a mound of stone,
 2 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor.
 Note: Original standard cor. of secs. 34 and 35, which
 is a mound of stone, bears N. 62° E., 2 chs. dist. I
 destroy all trace of this old cor.
 Land, rolling.
 Soil, loose, sandy loam, coarse texture, 12 to 18 ins.
 deep, on clay sub-soil, scattering loose rock on sur-
 face.
 Good grass, scattering mesquite brush, 3 to 7 ft. high.
 No timber.

 Thence I run
 East, on true line along S. bdy. of sec. 35.
 Over rolling, rocky land, through mesquite brush and
 yuccas, 3 to 7 ft. high.
 20.00 Dry wash, 6 ft. deep, 100 lks. wide; course, SW.
 39.00 Wagon road, bears N. 30° W., S. 30° E.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for re-established standard $\frac{1}{4}$ sec. cor., with
 brass cap marked S C $\frac{1}{4}$ S 35 in N. and 1913 in S. half;
 pits, impracticable. Raise mound of stone, 3 ft. base,
 3 ft. high, N. of cor.
 Note: From the above described cor., the original stand-
 ard $\frac{1}{4}$ sec. cor., which is a sandstone, 18x10x10 ins.,
 firmly set and marked as described by the Surveyor-Gen-
 eral, bears N. 26° E., 28 lks. dist. I destroy all
 trace of this old cor.

Thence, ascend S. point of rocky hill, 25 ft.
 45.00 Top of ascent, descend NE. slope, 40 ft.
 48.00 Dry wash, 100 lks. wide, 15 ft. deep, course SW.; ascend
 gentle W. slope through mesquite brush, 3 to 7 ft. high.
 70.00 Rocky wash, 15 lks. wide; 7 ft. deep; course, SW.
 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in
 the ground, for re-established standard cor. of secs.
 35 and 36, with brass cap marked S C T 10 S R 24 E in
 N. and 1913 in S. half; S 35 in NW. and S 36 in NE. quad-
 rant. Dig pits, 18x24x12 ins., crosswise on each line,
 E. and W. 3 ft. and N. of post 7 ft. dist.; and raise a
 mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Note: From the above described cor., the original stand-
 ard cor. of secs. 35 and 36, which is a granite stone,
 4x8x5 ins., loosely set and marked as described by Sur-
 veyor-General, bears N. 31° E., 35 lks. dist. I destroy
 all trace of this old cor.
 Land, rolling.
 Soil, loose, sandy loam, medium texture, 12 to 18 ins.
 deep, on clay sub-soil; scattering loose rock on sur-
 face.
 Good grass.
 Mesquite brush and scattering yuccas, 3 to 7 ft. high.
 Scattering willow trees along washes.

 Thence I run
 East, on true line along S. bdy. of sec. 36.
 Ascending gentle W. slope, through mesquite brush and
 scattering yuccas, 3 to 7 ft. high.
 5.00 Dry, rocky wash, 10 lks. wide, 2 ft. deep; course, SW.
 17.00 Dry, rocky wash, 10 lks. wide; 3 ft. deep; course, SW.
 20.00 Foot of steep, rocky hill, bears N. and S.; thence ascend
 1000 ft.

8. RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF R. 24 E.

Chains
30.00 Bend in rocky gulch; course, S. 70° W.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 36 in N. and 1913 in S. half. Pits impracticable. Raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor.
Note: From the above described cor., original standard $\frac{1}{4}$ sec. cor., which is a mound of stone, 2 ft. base, 2 ft. high, bears W. 10° E., 47 lks. dist. I destroy all trace of this old cor.
53.00 Summit of rocky ridge, bears N. and S.; thence descend steep, rocky E. slope, 600 ft.
61.00 Bottom of descent, dry rocky wash, 30 lks. wide; course, S. 20° E., thence ascend SW. slope, 300 ft.
68.00 Top of spur, slopes S.; thence descend rocky SE. slope, 600 ft.
79.00 Foot of descent, dry rocky wash, 30 lks. wide; 2 ft. deep; course, S. 10° W.; thence, ascend rocky NW. slope, 20 ft. to cor.
80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for re-established standard cor. of T. 10 S., Rs. 24 and 25 E., with brass cap marked S C T 10 S in N. and 1913 in S. half; R 24 E S 36 in NW. and R 25 E S 31 in NE. quadrant. Pits impracticable. Raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
Note: From the above described cor., the original standard cor. of T. 10 S., Rs. 24 and 25 E., which is the decayed remains of an oak post in a mound of stone, bears N. 66° W., 110 lks. dist. I destroy all trace of this old cor.
Land, rough, mountainous.
Soil, very thin and rocky.
Good grass, scattering mesquite brush and yuccas, 3 to 7 ft. high on W. end of line.
No timber.
At the above described cor., I set off 22° 29' S. on the decl. arc; and at 11 h. 50 m. 59 s., a. m., l. m. t., observe the sun on the meridian and obtain a reading of 32° 30 $\frac{1}{2}$ ' on the lat. arc.

Dec. 6, 1913.

 RETRACEMENT AND ESTABLISHMENT OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 22 EAST.

Retracement commenced Jan. 17, 1914, and executed by Thomas B. Matthews, U. S. Surveyor, with Young & Sons' Light Mountain Transit No. 8480, previously described. I examine the adjustments of the transit and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations, made during a. m. and p. m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment.
At 8 h. 30 m., a. m., l. m. t., I set off 20° 47' S. on the decl. arc; 32° 30 $\frac{1}{2}$ ' on the lat. arc; and determine a meridian with the solar at the standard $\frac{1}{4}$ sec. cor on the S. bdy. of sec. 34, previously re-established by me and described in Book "B" of notes of Group 22.
Thence I run
40.00 West, on a random line, along S. bdy. of sec. 34.
Make diligent search for original standard cor. of secs. 33 and 34, which I fail to find; therefore, I continue my random line,
80.00 West, on S. bdy. of sec. 33.
Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find.
120.00 Make diligent search for original standard cor. of secs. 32 and 33, which I fail to find. Continue random line, West, on S. bdy. sec. 32.

RETRACEMENT AND RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 22 EAST.

Chains
 160.00 Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find.
 200.10 Fall 6 lks. S. of point for original standard cor. of secs. 31 and 32, as determined from the SE. bearing tree.
 True course and distance of line back to standard $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 34 is, therefore, S. $89^{\circ} 59'$ E., 200.10 chs.

Thence I run
 40.00 West, on random line, along S. bdy. of sec. 31. Make diligent search for original standard $\frac{1}{4}$ sec. cor., which I fail to find. Continue random line West.
 80.20 Fall 12 lks. N. of original standard cor. of T. 10 S., Rs. 21 and 22 E., which is a malpais stone, 8x6x4 ins., dimly marked and set in mound of stone, witnessed by bearing trees as described by the Surveyor-General.
 True course and distance of this mile is, therefore, S. $89^{\circ} 55'$ W., 80.20 chs.
 Rain prevents further field work on this day.
 Jan. 17, 1914.

RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF RANGE 22 EAST.

January 18, 1914.
 At 8 h. 30 m., a. m., 1. m. t., I set off $20^{\circ} 35'$ S., on the decl. arc; $32^{\circ} 30'$ on the lat. arc; and determine a meridian with the solar at the standard $\frac{1}{4}$ sec. cor. on the south boundary of sec. 34, T. 10 S., R. 22 E., previously re-established by me and described in Book "B" of notes of Group 22.

Thence I run, as per result of above noted retracement N. $89^{\circ} 59'$ W., on a true line, along the S. bdy. of sec. 34, W. $\frac{1}{2}$ mile.
 Over level land, through scattering mesquite brush, 4 to 6 ft. high.
 24.50 Laura E. Horton's cabin, bears N. 150 lks. dist.
 32.00 Ash Creek school house, bears N. 3 chs. dist.
 40.02 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for the re-established standard cor. of secs. 33 and 34, with a brass cap marked S C T 10 S R 22 E. in N. and 1913 in S. half; S 33 in NW. and S 34 in NE. quadrant. Dig pits, 18x24x12 ins., crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, level.
 Soil, light sandy loam, medium texture, 12 to 18 ins. deep on clay sub-soil.
 Scattering short grass, mesquite brush, 4 to 6 ft. high.
 No timber.
 Note: Wagon road follows along this line.

Thence I run
 N. $89^{\circ} 59'$ W., on a true line along S. Bdy. of sec. 33.
 Over level land, through lane.
 .50 SE. cor. of wire fence bears N. 50 lks. dist.
 40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 33 in N. and 1913 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

10. RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF
R. 22 E.

Chains

40.50 Cor. of wire fence bears N. 50 lks. dist.
60.00 Cor. of wire fence bears N. 50 lks. dist.
66.00 Joseph T. Clark's house bears N. 250 lks. dist.
80.04 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for re-established standard cor. of secs. 32 and 33, with brass cap marked S C T 10 S R 22 E in N. and 1913 in S. half; S 32 in NW. and S 33 in NE. quadrant. Dig pits, 18x24x12 ins., crosswise on each line, E. & W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
Land, level.
Soil, loose red sandy loam, medium texture, 12 to 18 ins. deep on clay sub-soil.
Good grass; scattering mesquite brush, 2 to 4 ft. high.
No timber.

Thence I run
N. 89° 59' W., on a true line on S. bdy. of sec. 32.
Over level land, 50 lks. S. of and parallel to wire fence.
.10 NW. cor. of wire fence, bears S. 50 lks. dist.
1.00 L. B. Churchill's cabin bears N. 2 chs. dist.
15.00 Enter greasewood, 1 to 2 ft. high, bears N. and S.
40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established Standard $\frac{1}{4}$ sec. cor., with brass cap marked S C $\frac{1}{4}$ S 32 in N. and 1913 in S. half; pits impracticable. Raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor.
60.00 Wagon road, bears N. and S. M. L. Morgan's house bears N. 7 chs. dist.
78.00 Dry wash, 15 lks. wide; 2 ft. deep; course, NE.
80.04 Intersect point for original standard corner of secs. 31 and 32, hereinbefore described, This old cor. being in a state of dilapidation, I destroy all trace of same and re-establish it in the same place as follows:
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap marked S C T 10 S R 22 E in N. and 1913 in S. half; S 31 in NW., S 32 in NE. quadrant, from which
A sycamore, 10 ins. in dia., bears N. 37° E., 57 lks. dist., marked T 10 S R 22 E S 32 B T
A walnut, 10 ins. in dia., bears N. 32° W., 320 lks. dist., marked T 10 S R 22 E S 31 B T
Land, level.
Soil, loose red sandy loam, medium to fine texture, 12 to 18 ins. deep on clay sub-soil.
Good grass; greasewood, 1 to 2 ft. high.
Scattering sycamore and walnut trees at W. end of line.
Note: Wagon road follows along this line.

Thence I run
S. 89° 55' W., on true line on S. bdy. of sec. 31.
Over slightly rolling land, through scattering trees.
6.00 Elmer Morgan's house bears N. 2 chs. dist.
16.00 Wire fence bears S. 85° W. and N. 85° E.
23.00 Same wire fence bears N. 89° W. and S. 89° E.
33.50 Dry bed of Ash Creek, course N. 85° E.
34.00 Wm. Morgan's house bears N. 10 chs. dist.
38.00 Dry bed of Ash Creek, 20 lks. wide; 3 ft. deep; course, S. 85° E.
40.10 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., with brass cap, marked S C $\frac{1}{4}$ S 31 in N., and 1913 in S. half. Pits impracticable. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
70.00 Dry wash, 15 lks. wide; 2 ft. deep; course, N. 80° E.
80.20 Intersect original standard cor. of T. 10 S., Rs. 21 and 22 E., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same and re-establish it in the same place as follows:

RESURVEY OF SECOND STANDARD PARALLEL SOUTH, THROUGH PART OF R. 22.E. 11.

Chains

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for re-established standard cor. of T. 10 S. Rs. 21 and 22 E., with brass cap marked S C T 10 S in N. and 1913 in S. half; R 21 E S 36 in NW. and R 22 E S 31 in NE. quadrant, from which

A sycamore, 24 ins. in dia., bears N. $44\frac{3}{4}^{\circ}$ W., 486 lks. dist., marked T 10 S R 21 E S 36 B T

A hackberry, 12 ins. in dia., bears N. $15\frac{1}{4}^{\circ}$ E., 48 lks. dist., marked T 10 S R 22 E S 31 B T

Land, level and rolling.
 Soil, loose red sandy loam, medium to fine texture, 12 to 18 ins. deep on clay sub-soil.
 Good grass.
 Scattering sycamore and walnut trees along banks of creek.
 January 18, 1914.

NOTE: Inasmuch as the foregoing lines were chained by me during the examination for obliteration and as the adjoining subdivisional lines were to be closed immediately thereon under this assignment, I did not deem it necessary to employ an extra set of chainmen in order to double chain these standard lines.

Thomas B. Matthews
 U. S. Surveyor.

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Book B

CERTIFICATE OF ASSISTANTS.

BOOK 2721

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Thomas B. Matthews, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in^{re} surveying all those parts or portions of Second

Standard Parallel, south of nos 31, 32, 33 & 10 1/2 34
T.105, 19 22 E & ~~34~~ E. ^{re} begins 34, & nos 35 & 36, 19 24 E
T.105,
& Third Standard Parallel South Through R 25
E & south of nos 35 & 36, 19 24 E
T.155,

of the Gila & Salt River Base and Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said^{re} survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<u>W. R. Fisher</u>	<u>May 4 1913</u>	<u>July 8 1913</u>	<u>Flagman</u>
<u>R. W. Sprinkle</u>	<u>May 4 1913</u>	<u>Aug 31 1913</u>	<u>mounds man</u>
<u>Tom Jordan</u>	<u>Sept 1 1913</u>	<u>Sept 6 1913</u>	<u>aman</u>
<u>R. J. Ruffin</u>	<u>May 4 1913</u>	<u>Sept 21 1913</u>	<u>Chairman</u>
<u>William Lester</u>	<u>May 4 1913</u>	<u>Sept 9 1913</u>	<u>Chairman</u>
<u>S. Long & Co</u>	<u>Aug 8 1913</u>	<u>Aug 30 1913</u>	<u>aman</u>
<u>Edward Ditmars</u>	<u>July 9 1913</u>	<u>Sept 21 1913</u>	<u>Flagman</u>
<u>H. H. Palmer</u>	<u>Sept 22 1913</u>	<u>Sept 30 1913</u>	<u>Flagman</u>
<u>R. B. Hart</u>	<u>Nov 4 1913</u>	<u>Feb. 21 1914</u>	<u>aman</u>
<u>E. H. Tenley</u>	<u>Oct 6 1913</u>	<u>Feb. 21 1914</u>	<u>Flagman</u>
<u>Edward Ditmars</u>	<u>Sept 22 1913</u>	<u>Feb 25 1914</u>	<u>Chairman</u>
<u>H. H. Palmer</u>	<u>Oct 1 1913</u>	<u>Feb 24 1914</u>	<u>Chairman</u>
<u>G. L. DeLoach</u>	<u>Sept 1 1913</u>	<u>Feb 25 1914</u>	<u>mounds man</u>

Subscribed and certified to before me on the dates of the final service as shown above.

Thomas B. Matthews
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, Thomas B. Matthews, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Group 25 bearing date of the ~~Sept~~^{21st} day of April, 1913, 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 Second Standard Parallel South, south of mes 31, 32, 33 & 34 ^{T. 105} and mes 34, R 22 E & mes 35 & 36 & mes 34 ^{T. 105} R 24 E, & Third Standard Parallel South through ^{T. 155} R 25 E & south of mes 35 & 36 ^{T. 155} R 24 E.

of the Gila & Salt River Base and 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 I do further solemnly swear that all the corners of said ^{re} survey have been ^{re} 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 25 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{re} survey.

Thomas B. Matthews
U. S. Surveyor.

Subscribed by said Thomas B. Matthews and sworn to before me }
this 29 day of August, 1914

L. J. McCourt
United States Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona March 20, 1915

The foregoing field notes of the ^{re} survey of the Second Standard Parallel South ~~South~~ three parts of Ranges 22 and 24 East ^{and} the Third Standard Parallel South three Range 25 E. and part of R. 24 E. of the Gila and Salt River Base and Meridian, Arizona executed by Thomas B. Matthews, U.S. Surveyor under his special instructions dated May 7, 1913 for Group No 25, ~~1913~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ^{re} surveys they describe, are hereby approved.

Frank S. Ingalls
U.S. Surveyor General.
of Arizona

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.