

2980

4-679

Book "D."
(Subdivisions)

BOOK 2980

FIELD NOTES

OF RETRACEMENT, RESURVEY & SURVEY

of part of the

Subdivision Lines of

Township 1 North, Range 1 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Sidney B. Blout,

In the capacity of U. S. Surveyor, under instructions dated Dec. 16, 1914,

issued by the United States Surveyor General to govern surveys included in Group No. 40, which were approved by the Commissioner of the General Land

Office, Jan. 27, 1915.

Retracement
Resurvey & Survey commenced March 9, 1915.

Retracement
Resurvey & Survey completed April 9, 1915.

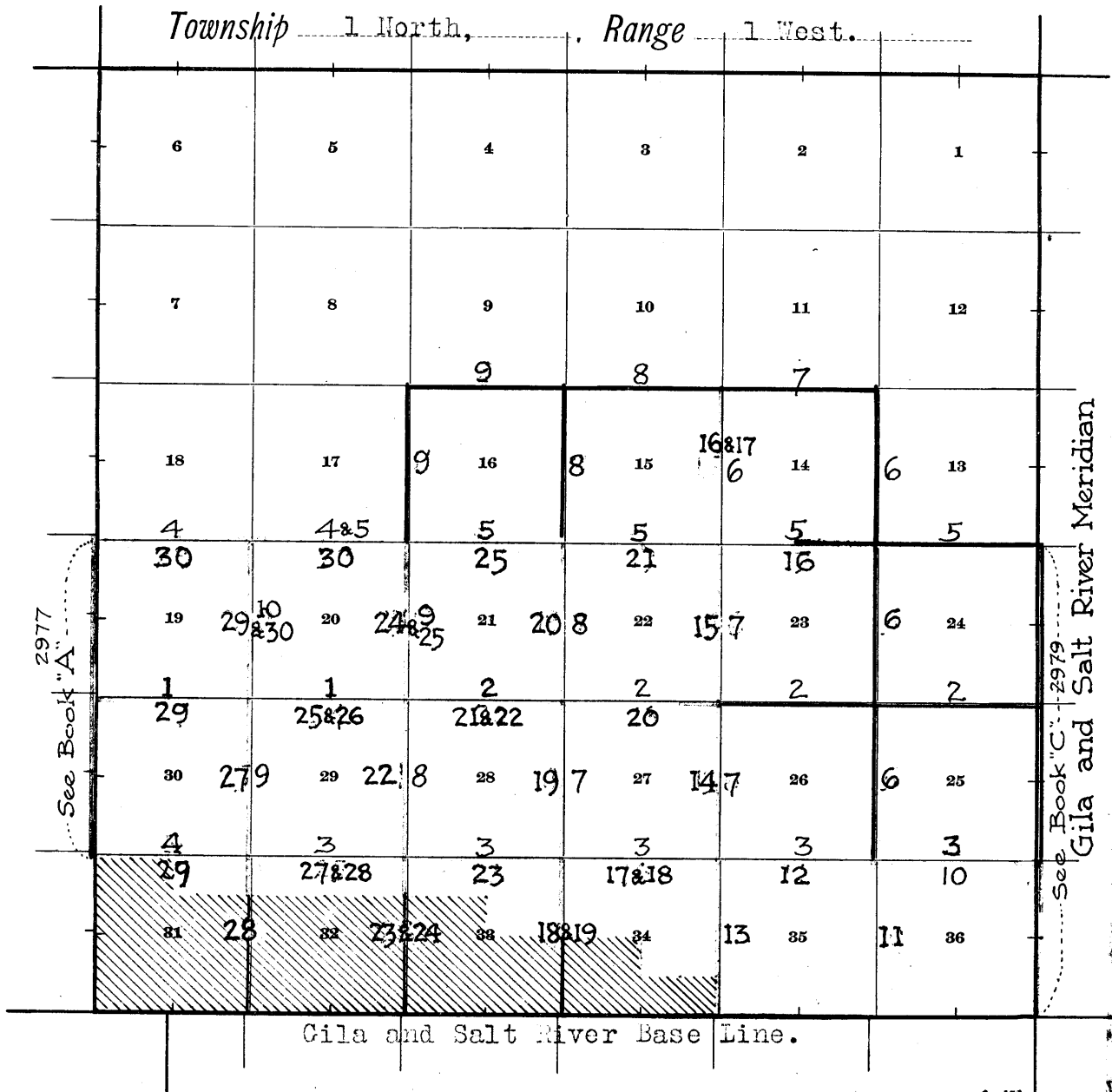
A

1A







Book "D"

Book "D"

INDEX DIAGRAM.



6-153

-  Lines surveyed this group.
-  Lines retraced this group.
-  Lines resurveyed this group.
-  Lines of accepted surveys or resurveys.
-  Area added by survey this group.
-  Area resurveyed this group.
- Retracement notes indexed in Red figures.
- Resurvey and survey notes indexed in Black figures.

Chains.

Retracement, resurvey and survey commenced March 9, 1915, and executed with a Young and Sons' light mountain transit No. 10, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian established on the roof of the Federal building in Phoenix, Arizona, found correct, and was approved by the Assistant Supervisor of Surveys for Arizona and California, March 5, 1915. For last complete test of instrument, see field notes of the retracement of the West bdy. of this Tp., in Book "A."

Being unable, after diligent search, to find the corners from which to initiate the subdivision lines in the unsurveyed portion of this township lying south of the Gila river, I retrace a part of the Subdivision lines in the surveyed portion of the township in order to locate such of the original corners as are still in existence, and at the same time determine the status of the old surveys as a basis of resurvey in the reestablishment of the necessary obliterated old corners to enable me to complete the surveys in this township, as follows:

RETRACEMENT:

March 9, 1915: At 9h.10m. a.m., l.m.t., I set off $33^{\circ}24\frac{1}{2}'$ N. on the lat. arc; $4^{\circ}43'S.$ on the decl. arc; and determine a meridian with the solar at the original cor. of secs. 19 and 30 on W. bdy. of Tp., described in Book "A."

Thence,

- 39.80 N. $89^{\circ}53'E.$, on a random line, bet. secs. 19 and 30. (Original dist.) I make diligent search for original sec. cor., which I fail to find. Continue line and measurement.
- 79.04 Fall 14 lks. S. of a mesquite post 4 ins. sq., 18 ins. above ground not marked. Continue line and measurement.
- 79.80 (Original dist.) No trace of the original cor. of secs. 19, 20, 29 and 30 can be found after diligent search. Continue line and measurement.
- 118.60 Fall 24 lks. S. of old mesquite stake, 3 ins. sq., 18 ins. above ground, not marked. Continue line and measurement.
- 119.75 (Original dist.) No trace of original sec. cor. of secs. 20 and 29 can be found.
- 158.16 Fall 28 lks. S. of point of intersection of center line of road from headgate of Buckeye Canal brs. S., with center line of Phoenix-Buckeye road brs. E and W. This point being recognized as the proper location of the missing cor. of secs. 20, 21, 28 and 29 by the settlers in the locality, I accept it as such by the absence of other evidence of the remains of said cor.
True course and dist. of line back to original cor. of secs. 19 and 30 on W. bdy. of Tp. is $S.89^{\circ}47'W., 158.16$ chs.

From recognized point for cor. of secs. 20, 21, 28 and 29, described above,
 $S.89^{\circ}47'W.$, on trial line bet. secs. 20 and 29, and bet. secs. 19 and 30.

- 39.56 Intersect old mesquite stake hereinbefore described.
 - 40.00 Set temp. sec. cor. of secs. 20 and 29.
 - 79.12 Intersect mesquite post, hereinbefore described.
 - 80.00 Set temp. cor. of secs. 19, 20, 29 and 30.
 - 120.00 Set temp. sec. cor. of secs. 19 and 30.
 - 158.16 Intersect cor. of secs. 19 and 30 on W. bdy. of Tp., described in Book "A."
-

Chains

- At the recognized point for cor. of secs. 20, 21, 28 and 29, hereinbefore described, March 9, 1915, at noon apparent time, I set off $4^{\circ}40'S.$ on the decl. arc, and observe the sun on the meridian obtaining a reading of $33^{\circ}23'$ on the lat. arc.
- Thence,
N. $89^{\circ}55'E.$, on random line, bet. secs. 21 and 28.
- 40.11 (Original dist.) No trace of original $\frac{1}{4}$ sec. cor. can be found.
- 40.94 Cross property line fence, brs. N. and S. at a point 14 lks. N. of center line of Phoenix-Buckeye road brs. E. and W.
- 81.88 Fall 29 lks. N. of point shown me by Joseph R. Carillo, and which he states is to the best of his recollection the exact point formerly occupied by the cor. of secs. 21, 22, 27 and 28, which cor. he states was destroyed by a flood in the Agua Fria River several years ago.
- True course and dist. of line back to recognized point for cor. of secs. 20, 21, 28 and 29 is therefore N. $89^{\circ}53'W.$, 81.88 chs.
- March 9, 1915.

- March 10, 1915. At 3h. 40m. p.m., l.m.t., I set off $33^{\circ}24\frac{1}{2}'$ N. on the lat. arc; $4^{\circ}13'S.$ on the decl. arc, and determine a meridian with the solar at the recognized point for cor. of secs. 21, 22, 27 and 28, hereinbefore described.
- Thence,
S $89^{\circ}53'E.$, on a random line, bet. secs. 22 and 27.
- 39.94 (Original dist.) No trace being found of the original $\frac{1}{4}$ sec. cor. after diligent search, I set temp. $\frac{1}{4}$ sec. cor. and continue line and measurement.
- 78.38 Fall 172 lks. N. of point of intersection of center lines of public road from Phoenix to Buckeye, Arizona, with public road bearing N. and S. Continue line and measurement.
- 79.88 (Original dist.) No trace being found of the original cor. of secs. 22, 23, 26 and 27, I return to the point of intersection of roads, and set temp. sec. cor. at this point.
- March 10, 1915.

- March 11, 1915. At 8h. 10m. a.m., l.m.t., I set off $33^{\circ}24\frac{1}{2}'$ N. on the lat. arc; $3^{\circ}56\frac{1}{2}'S.$ on the decl. arc, and determine a meridian with the solar at the temp. cor. of secs. 22, 23, 26 and 27, set last evening.
- Thence,
N. $89^{\circ}54'E.$, on a random line, bet. secs. 23 and 26, following old road and canal line through swamp formed from seepage from the irrigated lands of higher elevation.
- 40.06 (Original dist.) No trace can be found after diligent search, of the original $\frac{1}{4}$ sec. cor. Set temp. $\frac{1}{4}$ sec. cor. and continue line and measurement.
- 78.75 A point in line with property line fences bearing N. and S. in secs. 23 and 26. Continue line and measurement.
- 80.12 (Original dist.) I make a diligent search for the original cor. of secs. 23, 24, 25 and 26, which I fail to find. Set temp. sec. cor. at this point.

- From temp. cor. of secs. 23, 24, 25 and 26,
N. $89^{\circ}54'E.$, on a random line, bet. secs. 24 and 25, along old road and irrigation canal, through swamp.
- 39.89 (Original dist.) No trace of original $\frac{1}{4}$ sec. cor. can be found after diligent search; therefore, I set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement.
- 78.47 Intersect G. and S. R. Meridian 10 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is a granite stone $8 \times 6 \times 6$ ins.,

Partial Retracement of Subdivision lines of T.1 N. R. 1 W. 3.

Chains.

buried about 10 ins. below the surface of the ground in the public road.

March 11, 1915: I set off 3° 53' S. on the decl. arc, and at noon apparent time, observe the sun on the meridian at the cor. of secs. 25, 30, 31 and 36, on the G. and S. R. Meridian, described in Book "C," and obtain a reading of 33° 23' N. on the lat. arc.

At 1h. 10m. p.m., March 11, I set off 33° 23 1/2' N. on the lat. arc; 3° 52' S. on the decl. arc, and determine a meridian with the solar at this cor.

Thence,

West, on a random line, bet. secs. 25 and 36, along road fenced on either side.

39.58 Fall 17 lks. S. of a point on center line of road in line with property division line fences in secs. 25 and 36, which bear N. and S.

40.00 (Original dist.) Set temp. 1/4 sec. cor., after diligent search which fails to reveal the original 1/4 sec. cor. Continue line and measurement.

79.16 Fall 37 lks. S. of the intersection of center line of road fenced on either side, bearing N. and S., with center line of road bearing E. and W., accepted by the adjoining property owners as point for cor. of secs. 25, 26, 35 and 36. Continue line and measurement.

80.00 (Original dist.) Set temp. cor. of secs. 25, 26, 35 and 36, after diligent search, which fails to reveal the original cor.

From temp. cor. of secs. 25, 26, 35 and 36, West, on a random line, bet. secs. 26 and 35, along road fenced on either side.

38.93 Fall 38 lks. S. of point on center line of road in line with property division line fences in secs. 26 and 35.

40.00 (Original dist.) Set temp. 1/4 sec. cor. after diligent search, which fails to reveal the original cor. Continue line and measurement.

78.70 Fall 39 lks. S. of point of intersection of center lines of road, brs. N. and S., with road bearing E. and W., accepted by owners of adjoining property as the point for cor. of secs. 26, 27, 34 and 35. Continue line and measurement.

80.00 (Original dist.) No trace of the original cor. of secs. 26, 27, 34 and 35 being found after diligent search, I return to the point of intersection of road lines, where I set temp. cor. of secs. 26, 27, 34 and 35. March 11, 1915.

March 12, 1915. At 7h. 40m., a.m., l.m.t., I set off 33° 23 1/2' N. on the lat. arc; 3° 32 1/2' S. on the decl. arc, and determine a meridian with the solar at the temp. cor. of secs. 26, 27, 34 and 35.

Thence,

West on a random line bet. secs. 27 and 34.

40.00 No trace of original 1/4 sec. cor. can be found.

80.00 No trace of original cor. of secs. 27, 28, 33 and 34, can be found.

Continue line and measurement bet. secs. 28 and 33.

120.00 No trace of original 1/4 sec. cor. can be found.

160.00 No trace of original cor. of secs. 28, 29, 32 and 33 can be found.

Continue line and measurement bet. secs. 29 and 32.

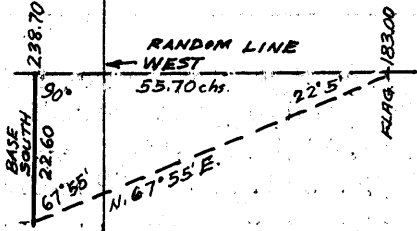
183.00 Intersect right bank of Gila River, brs. NW. and SE.

Water is too deep and current too swift to render chaining of measurement across river practicable.

Therefore leave flag at this point, and proceed to point

4. Partial Retracement of Subdivision lines of T.1 N., R.1 W.

Chains



on random line on left bank of river, where I triangulate the dist. across river, as follows:

Measure a base line S from random line 22.60 chs. From S. end of base, Flag on random line on right bank of river, brs. N. 67°55' E. Included angles 67°55', 90°00' and 22°5', the sum of which is 180°00'. Dist. on random line from N. end of base to flag is obtained by $\text{tang. } 67^\circ 55' \times \text{base}$ or $2.46476 \times 22.60 = 55.70$ chs., which added to 183.00 chs. =

- 238.70 Triangulation point on left bank of Gila River, from which continue random line and measurement.
- 240.00 No trace of original cor. of secs. 29, 30, 31 and 32 can be found. Continue line and measurement.
- 270.50 No trace of cor. set on line bet. secs. 30 and 31 at the old intersection with the right bank of the Gila River. No cors. were previously set west of this point. Continue line and measurement.
- 318.87 Fall 32 lks. S. of stake locating the point for cor. of secs. 30 and 31 on W. bdy. of Tp. set by me this day, as described in Book "A." True course and dist. of line back to temp. cor. of secs. 26, 27, 34 and 35 is therefore S. 89° 57' E., 318.87 chs.

From point for cor. of secs. 30 and 31 on W. bdy. of Tp., S. 89° 57' E., on trial line, bet. secs. 30 and 31, 29 and 32, 28 and 33 and 27 and 34.

- 38.87 Set temp. $\frac{1}{4}$ sec. cor. of secs. 30 and 31.
- 78.87 Set temp. cor. of secs. 29, 30, 31 and 32.
- 118.87 Point for temp. $\frac{1}{4}$ sec. cor. of secs. 29, and 32 falls in Gila river.
- 158.87 Set temp. cor. of secs. 28, 29, 32 and 33. At this temp. point, I set off 3° 30' S. on the decl. arc, and at noon apparent time, observe the sun on the meridian; the latitude is 33° 23 $\frac{1}{2}$ ' N.
- 198.87 Set temp. $\frac{1}{4}$ sec. cor. of secs. 28 and 33.
- 238.87 Set temp. cor. of secs. 27, 28, 33 and 34.
- 278.87 Set temp. $\frac{1}{4}$ sec. cor. of secs. 27 and 34.
- 318.87 Intersect temp. cor. of secs. 26, 27, 34 and 35, hereinbefore described.

March 12, 1915.

March 13, 1915. At 7h. 55m. a.m., l.m.t., I set off 33° 25' N. on the lat. arc; 3° 08 $\frac{1}{2}$ ' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 18 and 19 on W. bdy. of Tp., described in Book "A."

Thence,

- N. 89° 52' E. on a random line, bet. secs. 18 and 19.
- 39.92 (Original dist.) Set temp. $\frac{1}{4}$ sec. cor. after making diligent search for the original $\frac{1}{4}$ sec. cor., which I fail to find. Continue line and measurement.
- 40.12 Fall 33 lks. S. of a mesquite post $\frac{3}{8}$ ins. in diam., 14 ins. above ground set on property fence line, brs. E. and W. Continue line and measurement.
- 79.49 Fall 46 lks. S. of a mesquite stake $2\frac{1}{2}$ ins. in diam., 12 ins. above ground, not marked, set on line of wire fence, brs. E. and W. Continue line and measurement.
- 79.92 (Original dist.) Set temp. cor. of secs. 17, 18, 19 and 20, after diligent search which fails to reveal the original cor.

From temp. cor. of secs. 17, 18, 19 and 20, N. 89° 52' E. on a random line, bet. secs. 17 and 20.

Partial Retracement of Subdivision lines of T.1 N., R.1W.

Chains,

39.41 Fall 58 lks. S. of a mesquite post 3 ins. sq., 16 ins. above ground, not marked, set at the SE. cor. of wire fence. Continue line and measurement.

40.00 Set temp. $\frac{1}{4}$ sec. cor. after diligent search, which fails to reveal the old cor. Continue line and measurement.

78.77 Fall 64 lks. S. of a mesquite stake 2 ins. sq., 12 ins. above ground, greatly decayed, not marked, set in distinct remains of earth mound. This post is on line of road, bearing N. and S. Continue line and measurement.

80.00 Set temp. cor. of secs. 16, 17, 20 and 21, after diligent search, which fails to reveal the original cor.

From temp. cor. of secs. 16, 17, 20 and 21,
N. $89^{\circ}52'$ on a random line, bet. secs. 16 and 21.

40.00 No trace of the original $\frac{1}{4}$ sec. cor. can be found after diligent search. Continue line and measurement.

78.72 Fall 54 lks. N. of a granite boulder 8x6x6 ins., marked with a cross (x) for cor. point, buried about 6 ins. below the surface of the ground in center of public road to Avondale, Arizona, shown to me by Badler and recognized by other claimants of adjacent lands as the cor. of secs. 15, 16, 21 and 22.

At this cor. I set off $3^{\circ}06'S$ on the decl. arc, and at noon apparent time, March 13, observe the sun on the meridian; the resulting lat. is $33^{\circ}25'N$.

From the recognized cor. of secs. 15, 16, 21 and 22, shown me by Badler,

S. $89^{\circ}49'E$, on a random line, bet. secs. 15 and 22.

39.90 Fall 13 lks. S. of a mesquite stake 2 ins. in diam., 12 ins. above ground, marked $\frac{1}{4}$ on N. face. True course and dist. of $W. \frac{1}{2}$ of line bet. secs. 15 & 22 is therefore W. 39.90 chs.

S. $89^{\circ}49'E$, on a random line, bet. secs. 15 and 22 ($E. \frac{1}{2}$).

39.85 I make diligent search for the original cor. of secs. 14, 15, 22 and 23, which I am unable to find. Continue line and measurement bet. secs. 14 and 23.

(Original dist.) Find no trace of original $\frac{1}{4}$ sec. cor.

117.90 Fall 106 lks. N. of intersection of center line of Public Road brs. N. and S., with center line of Phoenix-Buckeye road brs. E. and W., which point of intersection has been recognized as the true point for cor. of secs. 13, 14, 23 and 24 by the settlers in this locality.

True course and dist. of line back to original $\frac{1}{4}$ sec. cor. of secs. 15 and 22 is therefore N. $89^{\circ}18'W$, 117.90 chs.

From recognized point for cor. of secs. 13, 14, 23 and 24, described above,

N. $89^{\circ}18'W$, on trial line, bet. secs. 14 and 23, and bet. secs. 15 and 22 ($E. \frac{1}{2}$).

39.38 (Proportional dist.) Set temp. $\frac{1}{4}$ sec. cor. of secs. 14 and 23.

78.76 (Proportional dist.) Set temp. cor. of secs. 14, 15, 22 and 23.

117.90 Intersect original $\frac{1}{4}$ sec. cor. of secs. 15 and 22.

From the recognized point for cor. of secs. 13, 14, 23 and 24, at the intersection of Public roads,

S. $89^{\circ}53'E$ on a random line, bet. secs. 13 and 24.

Over nearly level land, along Public road from Phoenix to Buckeye, Arizona.

40.00 I make diligent search for $\frac{1}{4}$ sec. cor., which I fail to find. Continue line and measurement.

40.16 Intersection of road on property line in sec. 13, brs. North.

80.34 Fall 86 lks. S. of the cor. of secs. 13, 18, 19 and 24 on the

6. Partial Retracement of Subdivision lines of T. 1 N., R. 1 W.

Chains

G. & S. R. Meridian, which is a cement post 6 ins. sq., with iron bolt in top, set 14 ins. below the surface of the ground, at the intersection of road from Phoenix to Buckeye, Arizona, with road along the meridian.
March 13, 1915.

March 15, 1915. At 7h.09m. a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'$ N. on the lat. arc; $2^{\circ}22'S$ on the decl. arc, and determine a meridian with the solar at the temp. cor. of secs. 25, 26, 35 and 36.

Thence

- North, on a random line, bet. secs. 25 and 26.
- .35 Center of road brs. E. and W.
- .75 Wire fence brs. E. and W., 80 lks. W. of intersection with fence brs. N. and S.; enter mesquite and greasewood brush undergrowth, 4 to 6 ft. high.
- 39.45 Wire fence brs. E. and W. 40 lks. W. of NE. cor. of field.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor. after diligent search, which fails to reveal the old cor. Continue line and measurement.
- 50.00 Enter swampy land, brs. E. and W.
- 79.25 Fall 10 lks. E. of a point in old road in line with property line fence brs. N. and S. Continue line and measurement.
- 80.00 I again make diligent search for the cor. of secs. 23, 24, 25 and 26, but am unable to find any trace of it; therefore set temp. sec. cor. at this point, and continue line and measurement.
- In swamp, over level land.
- 105.00 Leave swampy land, brs. E. and W.; ascend gradually over rolling land.
- 119.70 Wire fence on property subdivision line, brs. E. and W.
- 120.00 Set temp. $\frac{1}{4}$ sec. cor. after diligent search, which fails to reveal the old cor.
- 159.20 Wire fence brs. E. and W.
- 159.60 Fall 115 lks. E. of the recognized point for cor. of secs. 13, 14, 23 and 24, hereinbefore described.
True course and dist. of line back to temp. cor. of secs. 25, 26, 35 and 36 is therefore $S. 0^{\circ}24'E.$, 159.60 chs.

From the recognized point for cor. of secs. 13, 14, 23 and 24, North, on a random line, bet. secs. 13 and 14.

Over nearly level, sandy land, along center line of road fenced on either side with property line fences.

- 40.00 I make a diligent search for the original $\frac{1}{4}$ sec. cor., which I am unable to find. Continue line and measurement.
- 41.00 A point in road in line with property line fences in secs. 13 and 14.
- 81.98 Fall 8 lks. W. of intersection of center line of road bearing N. and S. with the center line of the State Highway from Phoenix to Yuma, Arizona, and recognized as the point for cor. of secs. 11, 12, 13 and 14. Find no trace of the original sec. cor. here.
At this point, I set off $2^{\circ}19'S$ on the decl. arc, and at noon, apparent time, observe the sun on the meridian; the resulting lat. is $33^{\circ}26'N$.
True course and dist. of this line is therefore $N. 0^{\circ}34'E.$, 81.98 chs.

March 15, 1915.

March 16, 1915. At 7h.39m. a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'N$ on the lat. arc; $1^{\circ}58'S$ on the decl. arc; and determine a meridian with the solar at the temp. cor. of secs. 26, 27, 34 and 35.

Thence

Partial Retracement of Subdivision lines of T. 1 N. R. 1 W. 7.

Chains
 39.31 North, on a random line, bet. secs. 26 and 27.
 Fall 7 lks. W. of a point on center line of Public road in line with property line fences in secs. 26 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor., after diligent search, which fails to reveal the old cor. Continue line and measurement.
 78.62 Fall 14 lks. E. of the temp. cor. of secs. 22, 23, 26 and 27. True course and dist. of line back to the temp. cor. of secs. 26, 27, 34 and 35 is therefore S. 0° 6' E., 78.62 chs.

From temp. cor. of secs. 22, 23, 26 and 27,
 North, on a random line, bet. secs. 22 and 23.
 40.00 I make a diligent search for the original $\frac{1}{4}$ sec. cor., which I fail to find. Continue line and measurement.
 80.00 Make another search for original cor. of secs. 14, 15, 22 and 23, but fail to find any trace of it. Continue line and measurement.
 80.81 Temp. cor. of secs. 14, 15, 22 and 23 set on E. and W. trial line as hereinbefore described, brs. W. 107 lks. dist.
 120.00 No trace of original $\frac{1}{4}$ sec. cor. of secs. 14 and 15 can be found.
 161.38 Fall 258 lks. E. of the recognized cor. of secs. 10, 11, 14 and 15 shown by W. Moore, which is a granite river boulder 8x6x2 ins. above ground, firmly set and marked with a cross (x) for exact cor. point.
 True course and dist. of line back to temp. cor. of secs. 22, 23, 26 and 27 is therefore S. 0° 55' E., 161.40 chs.

From recognized cor. of secs. 10, 11, 14 and 15, described above,
 S. 0° 55' E. on trial line, bet. secs. 14 and 15, and bet. secs. 22 and 23.
 40.35 (Proportional dist.) Set temp. $\frac{1}{4}$ sec. cor. of secs. 14 and 15.
 80.58 Temp. cor. of secs. 14, 15, 22 and 23 on E. and W. trial line, brs. E. 22 lks. dist.
 80.70 (Proportional dist.) Set temp. cor. of secs. 14, 15, 22 and 23. At this point I set off 1° 55' S. on the decl. arc, and at noon, apparent time, observe the sun on the meridian, and obtain a reading of 33° 25' N. on the lat. arc.
 121.05 (Proportional dist.) Set temp. $\frac{1}{4}$ sec. cor. of secs. 22 and 23.
 161.40 Intersect temp. cor. of secs. 22, 23, 26 and 27.
 March 16, 1915.

March 18, 1915: At 8h. 38 $\frac{1}{2}$ m. a.m., l.m.t., I set off 33° 26' N. on the lat. arc; 1° 11' S. on the decl. arc, and determine a meridian with the solar at the recognized point for cor. of secs. 11, 12, 13 and 14, hereinbefore described.
 Thence
 West, on a random line, bet. secs. 11 and 14.
 Along center of State Highway from Phoenix to Yuma, Arizona. Over rolling land, slopes to the west.
 15.00 Enter sandy bottom land along the Agua Fria river, brs. NE. and SW. subject to overflow to a depth of from 1 to 3 ft.
 40.00 No trace of the original $\frac{1}{4}$ sec. cor. can be found after careful search. Continue line and measurement.
 50.00 Dry bed of the Agua Fria river, 15 chs. wide, course south.
 73.50 A point on the Arizona Eastern Ry. track, brs. E and SW.
 75.00 Leave river bottom, brs. N. and S.; ascend gradually.
 78.50 W. Moore's house and store brs. N. about 80 lks. dist.
 80.15 Fall 42 lks. N. of the recognized cor. of secs. 10, 11, 14 and 15, hereinbefore described.
 True course and dist. of line bet. secs. 11 and 14 is therefore S. 89° 42' W., 80.15 chs.
 March 18, 1915.

8. Partial Retracement of Subdivision lines of T.1 N., R.1 W.

Chains.

March 17, 1915. At 8h. 09m. a.m., l.m.t., I set off $33^{\circ} 24\frac{1}{2}'$ N. on the lat. arc; $1^{\circ} 35'$ S. on the decl. arc, and determine a meridian with the solar at the recognized point for cor. of secs. 21, 22, 27 and 28, hereinbefore described.

Thence South, on a random line, bet. secs. 27 and 28.

40.00 Find no trace of the $\frac{1}{4}$ sec. cor. after diligent search; set temp. $\frac{1}{4}$ sec. cor. Continue line and measurement.

80.00 I again make diligent search for evidence of the original cor. of secs. 27, 28, 33 and 34, but find no trace of same.

80.47 Intersect E. and W. trial line, 1.48 chs. $S. 89^{\circ} 57'$ E. of temp. cor. of secs. 27, 28, 33 and 34.

From recognized point for cor. of secs. 21, 22, 27 and 28, hereinbefore described,

North, on a random line, bet. secs. 21 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor. after diligent search, which fails to reveal the old cor. Continue line and measurement.

79.14 Fall 163 lks. E. of the recognized cor. of secs. 15, 16, 21 and 22, hereinbefore described.

At this cor. I set off $1^{\circ} 31\frac{1}{2}'$ S. on the decl. arc, and at noon, apparent time March 17, 1915, observe the sun on the meridian, and obtain a reading of $33^{\circ} 25'$ N. on the lat. arc.

True course and dist. of line between secs. 21 and 22 is therefore $N. 1^{\circ} 11'$ W., 79.16 chs.

From recognized cor. of secs. 15, 16, 21 and 22,

North, on a random line, bet. secs. 15 and 16.

Over rolling, sandy land in Public road, fenced on E. side. Center of the Arizona Eastern Railroad track, crs. NE. and SW.

23.70 Western Union telegraph line, crs. NE. and SW.

40.00 I make a diligent search for the $\frac{1}{4}$ sec. cor., which I fail to find; therefore, I continue my line and measurement north.

40.16 A point in road on line with property line fence in sec. 15, bearing east.

80.33 Intersect center line of the State Highway from Phoenix to Yuma, Arizona, at the temp. cor. of secs. 9, 10, 15 and 16, set March 10, 1915, hereinafter described.
March 17, 1915.

March 18, 1915. From recognized cor. of secs. 10, 11, 14 and 15, hereinbefore described,

West, on a random line, bet. secs. 10 and 15.

Over nearly level, sandy land, along State Highway from Phoenix to Yuma, Arizona, fenced on either side by the claimants of the land.

38.04 A point in road about 250 lks. N. of school house.

40.00 Make diligent search for the old $\frac{1}{4}$ sec. cor., which I fail to find. Continue line and measurement.

77.50 Fall 42 lks. S. of temp. cor. of secs. 9, 10, 15 and 16, set by me March 10, 1915, as hereinafter described.

March 18, 1915.

March 10, 1915. At 7h. 10 $\frac{1}{2}$ m. a.m., l.m.t., I set off $33^{\circ} 24\frac{1}{2}'$ N. on the lat. arc; $4^{\circ} 19\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the recognized cor. of secs. 20, 21, 28, and 29, hereinbefore described.

Thence I run,

South, on a random line, bet. secs. 28 and 29.

Partial Retracement of Subdivision lines of T.1 N., R.1 W. 9

Chains.

40.00 Set temp. $\frac{1}{4}$ sec.cor. after making diligent search for the original $\frac{1}{4}$ sec.cor., which I fail to find. Continue line and measurement.

80.00 I make a diligent search for the original cor.of secs.28, 29,32 and 33, which I am also unable to find.

From recognized cor.of secs.20,21, 28, and 29, North, on a random line, bet.secs.20 and 21.

40.00 Set temp. $\frac{1}{4}$ sec.cor.. after making diligent search for the original $\frac{1}{4}$ sec.cor., which I fail to find. Continue line and measurement.

80.00 I again make diligent search for the original cor.of secs. 16,17,20 and 21, which I am unable to find.

80.26 Fall 142 lks.W. of a mesquite stake, 2 ins.sq.,12 ins. above ground, greatly decayed,not marked,set in small mound of earth,probably intended for cor.of secs.16, 17,20 and 21, and since it agrees with the property lines on the claims in the secs.to the north,I recognize it as the sec.cor.

True course and dist.of line back to recognized cor.of secs. 20,21,28 and 29 is therefore S.0°18'W., 80.26 chs.

From the old stake set for cor.of secs. 16,17,20 and 21, as above described,

North, on a random line, bet. secs. 16 and 17.

39.78 Fall 22 lks.E. of mesquite stake 2 ins.sq., 10 ins.above ground on line with property fence line in sec.17.

40.00 No trace of the original $\frac{1}{4}$ sec.cor. can be found after diligent search; therefore, I set temp. $\frac{1}{4}$ sec.cor.,and continue line and measurement.

70.80 Old road to ranch brs.E.and W.

75.86 Road to Avondale, Arizona, brs.N.50°W. and S.50°E.

79.46 Intersect center line of the State Highway from Phoenix, to Yuma, Arizona, at a point in line with property fence line, brs.N. Set temp.cor.of secs. 8,9,16 and 17 at this point of intersection.

At this point,I set off 4°17'S. on the decl.arc;and at noon, apparent time, March 10,1915, observe the sun on the meridian; the resulting lat.being 33°26'N.

From temp. cor.of secs. 8,9,16 and 17,

East, on a random line, bet. secs.9 and 16.

Over nearly level land, along State Highway from Phoenix to Yuma, Arizona.

40.00 Set temp. $\frac{1}{4}$ sec.cor.,after diligent search, which fails to reveal the original cor. Continue line and measurement.

80.00 Set temp.cor.of secs.9,10,15 and 16,after diligent search, which fails to reveal the original cor. This point is in line with property line fence on N.side of highway, bears north.

March 10,1915.

March 18,1915. At 2h.08 $\frac{1}{2}$ m. p.m., l.m.t., I set off 33° 24 $\frac{1}{2}$ 'N.on the lat.arc; 1°06'S. on the decl.arc; and determine a meridian with the solar at the temp.cor.of secs.19,20,29 and 30, hereinbefore described.

Thence South, on a random line, bet.secs.29 and 30.

40.00 I make diligent search for the original $\frac{1}{4}$ sec.cor.,which I am unable to find; therefore, set temp. $\frac{1}{4}$ sec.cor., and continue line and measurement.

58.40 To right bank of the Gila River, which I find too high to cross; therefore, I discontinue the retracement of the line at this point.

10. Partial Retracement of Subdivision lines of T.1 N. R.1W.

Chains.

- From the temp. cor. of secs. 19, 20, 29 and 30, hereinbefore described,
 N. $0^{\circ}3'$ W., on a random line, bet. secs. 19 and 20.
- 39.62 Fall 108 lks. W. of a granite boulder 6x4x4 ins. above ground marked $\frac{1}{4}$ on W face, and accepted by settlers as the true cor.
- 40.00 I make a diligent search for the original $\frac{1}{4}$ sec. cor., which is described as a post, in the field notes furnished me by the Surveyor General, but am unable to find any trace of it.
- Continue line and measurement.
- 79.54 Fall 148 lks. W. of the temp. cor. of secs. 17, 18, 19 and 20, hereinbefore described.
- 80.00 I again make careful search for the original cor. of secs. 17, 18, 19 and 20, but can find no trace of it.
 March 18, 1915.

RESURVEY.

I find from the foregoing retracements that the corner obliteration over this portion of the township is almost complete, that there is but very little testimony of settlers obtainable relative to the location of the obliterated corners, and that the subdivision lines as defined by such improvements as roads, fence and ditch lines constructed several years ago are more or less irregular in length and bearing, and since the greater portion of the land in the township has been entered and improvements, such as roads, fences, and ditches constructed by the occupants of the land along lines agreed upon by the claimants, which would not agree with the corresponding lines if reestablished in accordance with the circular on the Restoration of Lost or Obliterated Corners; therefore, in the resurvey of a part of the subdivision lines in the township in order to establish the necessary obliterated corners to enable me to complete the survey of the subdivisional lines in the unsurveyed portion of the township, in the absence of testimony of settlers, from which to locate the obliterated corners, and where the variance in the length and bearing of existing claim lines, as marked on the ground by such visible evidence as roads, fence and ditch lines, and lines of trees is not so great, compared with adjacent lines, as to make the location of the lines appear altogether unreasonable, I accept such evidence as the best evidence obtainable at the present time of the original location of the subdivisional lines in the township, in order not to impair the bona fide rights of the claimants, and reestablish the lost or obliterated corners as nearly as may be in their original positions in conformity with such evidence, as follows:

March 19, 1915. At 10h.08m. a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'$ N. on the lat. arc; $0^{\circ}46'$ S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 25, 30, 31 and 36 on E. bdy. of Tp. (G. & S.R. Meridian) described in Book "C."

Thence,

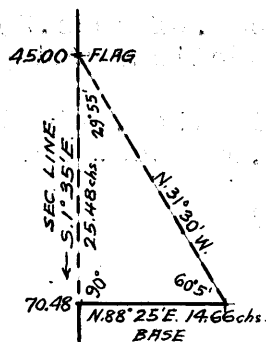
- N. $89^{\circ}44'$ W., on a true line, bet. secs. 25 and 36.
 Over level land, along center line of Public road, fenced on either side with property line fences.
- 39.58 Intersect point on center line of road in line with property line fences in secs. 25 and 36. Set an iron post 3 ft. long, 1 in. in diam., 40 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 25 in N., and
 S 36, 1915 in S. half, from which
 A mesquite, 12 ins. diam., brs. N. $60\frac{1}{2}^{\circ}$ W., 100 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 A cottonwood 24 ins. diam., brs. S. 64° W., 97 lks. dist., marked $\frac{1}{4}$ S 36 B T.

Chains.

- 79.16 Intersect the recognized point for cor. of secs. 25, 26, 35 and 36, as defined by road intersections and property lines, as hereinbefore described.
Set an iron post 3 ft. long, 2 ins. in diam., 40 ins. in the ground for reestablished cor. of secs. 25, 26, 35 and 36, marked on brass cap,
T 1 N R 1 W in N., and
1915 in S-half;
S 26 in NW.,
S 25 in NE.,
S 36 in SE., and
S 35 in SW. quadrant, from which
A mesquite, 6 ins. in diam., brs. S. 34° E., 61 lks. dist., marked T 1 N R 1 W S 36 BT.
No other trees within limits, and as this cor. falls in the center of road, I omit the cor. accessories.
At this cor. I set off 0° 44' S. on the decl. arc; and at noon, apparent time, observe the sun on the meridian, and obtain a reading of 33° 23' + on the lat. arc.
Land almost level.
Soil, rich fine moist sandy loam about 36 ins. deep on gravelly subsoil.
Timber, cottonwood along road right-of-way, and mesquite in fields along north side of road.
-
- March 20, 1915: At 9h. 38m. a.m., l.m.t., I set off 33° 23' N. on the lat. arc; 0° 22' S. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 25, 26, 35 and 36.
Thence,
South, on a random line, bet. secs. 35 and 36.
- 40.00 I make a diligent search for the original $\frac{1}{4}$ sec. cor., which I fail to find; therefore, I set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement.
- 41.90 Intersect the present right bank of the Gila River. At this point, an old fence line, believed by the settlers of the adjoining claims to be on the old line bet. secs. 35 and 36, bears east 116 lks. dist.; therefore, I return to the reestablished cor. of secs. 25, 26, 35 and 36.
Thence,
S. 1° 35' E. on a true line, as determined above, bet. secs. 35 and 36.
Over level, sandy land in Public road.
- .34 The St. John's ditch, 6 lks. wide, 3 ft. deep, course west.
.48 Cor. of wire fences bear E. and W., and S. 1° 35' E.; thence along old fence line.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 35 in W.,
S 36 in E., and
1915 in S-half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 42.30 Intersect right bank of Gila River 4 ft. high, brs. N. 80° W., and S 80° E.
Thence over sandy shore of river.
- 45.00 Edge of water. Measurement across river by chaining being impracticable, I obtain measurement by triangulation as follows:
March 20, 1915. Set flag on line at N. edge of water at 45 chs. station.
April 6, 1915. At flag at 8h. 28m. a.m., l.m.t. I set off 33° 23' N. on the lat. arc; 6° 13' N. on the decl. arc, and determine a meridian with the solar.
Proceed to point on line on left bank of river, where I

12. Partial Resurvey of Subdivision lines of T.1 N., R.1 W.

Chains.



measure off base line N. 88° 25' E., 14.66 chs.

From E. end of base, flag brs. N. 31° 30' W. Included angles are 60° 05', 90° 00' & 29° 55', the sum of which is 180° 00'.

Dist. on sec. line from flag to W. end of base is therefore tang. 60° 05' x base or 1.73788 x 14.66 = 25.48 chs., which added to 45.00 chs. =

- 70.48 Triangulation point on left bank of Gila River, bank 5 ft. high brs. N. 70° E. and S. 70° W., thence over old river bed subject to overflow to a depth of from 1 to 3 ft.
- 79.89 Intersect the Gila and Salt River Base Line 281 lks. S. 89° 32' E. of the true point for standard cor. of secs. 35 and 36. This point of intersection falls in old slough, making it impracticable to establish closing cor.; therefore, I continue line and measurement.
- 85.60 Foot of old left bank of river brs. N. 80° W. and S. 80° E. Ascend bank 10 ft.
- 86.35 Top of bank, enter rolling land.
- 86.60 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to closing cor. of secs. 35 and 36, marked on brass cap,
WC CC S. of center,
T1 N. R1 W in N., and
T1 S. R1 W, WC AP 1915 in S. half;
S 35 in NW, and
S 36 in NE. quadrant; from which
A cottonwood, 12 ins. in diam., brs. N 40° W., 120 lks. dist., marked WC T1SR1WS1BT.
- No other trees suitable for bearing trees within limits; dig pits 24x18x12 ins. crosswise on 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.
- At this cor. I set off 6° 16½' N. on the decl. arc, and at noon, apparent time April 6, 1915, observe the sun on the meridian, the resulting lat. being 33° 22½' N.
- From this cor., the witness cor. to the standard cor. of secs. 35 and 36, which is an iron post 3 ins. in diam., 12 ins. above ground, marked and witnessed as described by the surveyor general, brs. N. 66° 32' W., 328 lks. dist., which cor. I change to a witness cor. to an angle point, and since there is no change in the bearing of the S. bdy. of sec. 36 at the standard ¼ sec. cor., I remove this post, and destroy the marks on the bearing trees.
- Land, nearly level sandy river bottom.
Soil of the N. 40 chs. rich, sandy loam, about 24 ins. deep on moist clay and sand subsoil; S. 40 chs. poor, sandy river bed.
No timber.

March 20 and April 6, 1915.

March 19, 1915. From reestablished cor. of secs. 25, 26, 35 and 36,

N. 89° 59' W., on a true line, bet. secs. 26 and 35.

Along center line of Public Road, fenced on either side by property line fences, over rolling, sandy land.

- 39.77 Intersect a point on center line of road in line with property line fences in secs. 26 and 35.

Set an iron post 3 ft. long, 1 in. in diam., 4 ins. below the surface of the ground for reestablished ¼ sec. cor., marked on brass cap,

¼ S 26 in N., and
¼ S 35, 1915 in S. half.

I omit the cor. accessories to this cor. on account of their interference with the travel on the road.

- 79.54 Intersect temp. cor. of secs. 26, 27, 34 and 35 at intersection

Partial Resurvey of Subdivision lines of T. 1 N. R. 1 W. 13

Chains.

of Public Roads.

Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. below the surface of the ground for reestablished cor. of secs. 26, 27, 34 and 35, marked on brass cap,

T 1 N R 1 W in N., and

1915 in S half;

S 27 in NW.,

S 26 in NE.,

S 35 in SE., and

S 34 in SW. quadrant; from which

A cottonwood, 20 ins. in diam., brs. N. 51° E., 220 lks. dist., marked T 1 N R 1 W S 26 B T.

A cottonwood, 18 ins. in diam., brs. S. 78° E., 239 lks. dist., marked T 1 N R 1 W S 35 B T.

A cottonwood, 20 ins. in diam. brs. N. 59½° W., 344 lks. dist., marked T 1 N R 1 W S 27 B T.

No other trees available, and since the cor. falls in Public road, I omit the cor. accessories otherwise required.

From this point a dwelling house brs. S. 9° 15' W., about 3 chs. dist.

Land, nearly level.

Soil, rich fine moist sandy loam, about 24 ins. deep on clay and sand subsoil.

Timber, cottonwood along property fence and ditch lines on either side of the public roads.

March 20, 1915. At 11h. 08m. a.m., l.m.t., I set off 33° 23½' N. on the lat. arc; 0° 21' S. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 26, 27, 34 and 35.

Thence,

South on a random line, bet. secs. 34 and 35.

30.70 Intersect the right bank of the Gila River; therefore, since the original ¼ sec. cor., and also the cor. of frac. secs. 34 and 35 reported in the old field notes as having been set on the right bank of the river have been washed away, I return to the reestablished cor. of secs. 26, 27, 34 and 35.

Thence

S. 0° 13' W., on a true line, following the center line of old road fenced by property line fences on either side, bet. secs. 34 and 35.

Over rolling, sandy land, slopes toward the Gila river.

31.00 Intersect the right bank of the Gila river 6 ft. high, brs. E. and W. At point of intersection,

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to reestablished ¼ sec. cor., marked on brass cap,

WC ¼ S of center,

1915 in S half;

S 34 in NW., and

S 35 in NE. quadrant; this cor. falls along-

side of road; dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

At this cor., I set off 0° 21½' S. on the decl. arc, and at noon apparent time observe the sun on the meridian and obtain a reading of 33° 23' N. on the lat. arc.

March 20, 1915.

April 6, 1915. At this witness cor. at 1h. 58m. p.m., l.m.t., I set off 33° 23' N. on the lat. arc; 6° 18½' N. on the decl. arc, and determine a meridian with the solar.

Chaining measurement across river being impracticable, I triangulate as follows:

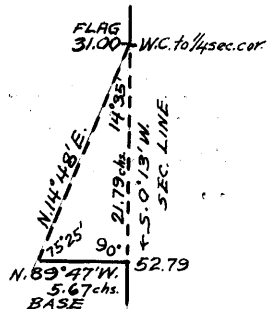
Leave flag on line at witness cor.

Proceed to point on line on S edge of

water, whence measure a base line N.

14. Partial Resurvey of Subdivision lines of T.1 N., R.1 W.

Chains.



89°47'W., 5.67 chs.
 From W. end of base flag brs. N. 14°48'
 E. Included angles are 75°25',
 14°35' & 90°00', the sum of which
 is 180°00'; therefore dist. on sec.
 line from W.C. to E. end of base =
 $\text{tang. } 75^\circ 25' \times \text{base or } 3.84364 \times 5.67$
 = 21.79 chs., which added to 31.00
 chs. =

- 52.79 Triangulation point on S. edge of water. Thence over sandy river bed.
 53.00 Ascend left bank of river.
 53.25 Top of left bank of the Gila river 3 ft. high, brs. N. 70°W. and S. 70°E.; thence over rolling bottom land.
 60.45 Center of slough 50 lks. wide, 4 ft. deep, course N. 80°W.; enter scattering mesquite timber and dense arrowweed and water moat undergrowth, 6 ft. high.
 79.25 Intersect Gila and Salt River Base line 62 lks. S. 89°32'E. of the standard cor. of secs. 34 and 35, which is an iron post 3 ins. in diam., 12 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General. At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs. 34 and 35, marked on brass cap,

C C N of center,
 T 1 N R 1 W in N.,
 T 1 S R 1 W, 1915 in S., and
 A P in W half,
 S 34 in NW., and
 S 35 in NE. quadrant; from which

A mesquite, 8 ins. in diam., brs. N. 23½°E., 126 lks. dist., marked T 1 N R 1 W S 35 C C B T.
 A mesquite, 12 ins. in diam., brs. N. 36½°W., 110 lks. dist., marked T 1 N R 1 W S 34 C C B T.

I change the standard cor. of secs. 34 and 35 to an angle point.

Land, rolling and level.

Soil of the N. 30 and S. 15 chs., rich fine sandy loam on clay and sand and gravel subsoil; soil of the river bed free sand, 3rd rate.

Timber, scattering mesquite and cottonwood.

Note: Since there is no change in the bearing of the G. & S. R. Base line at the standard ¼ sec. cors. on S bdrs. of secs. 34 and 35, I remove these cors.

March 20 and April 6, 1915.

March 19, 1915. From reestablished cor. of secs. 26, 27, 34 and 35,

N. 0°06'W. on a true line, bet. secs. 26 and 27.

Along center line of road fenced on both sides by property line fences.

- 39.31 Intersect a point on center line of road in line with property line fences in secs. 26 and 27; set an iron post 3 ft. long, 1 in. in diam., 6 ins. below the surface of the ground for reestablished ¼ sec. cor., marked with brass cap,

S 27 in W.,
 S 26 in E., and
 1915 in S half; from which,

A mesquite 12 ins. in diam., brs. S. 77½°W., 198 lks. dist., marked S 27 B T.

No other trees within limits, and since the cor. falls in the center of road, I omit the other cor. accessories.

- 78.62 Intersect the temp. cor. of secs. 22, 23, 26 and 27, at point of intersection of center lines of Public Roads hereinbefore described.

Set an iron post 3 ft. long, 2 ins. in diam., 4 ins. below the surface of the ground for reestablished cor. of secs. 22, 23, 26 and 27, marked on brass cap,

Partial Resurvey of Subdivision lines of T.1 N., R.1 W. 15

Chains.

T 1 N R 1 W in N., and
1915 in S. half;
S 22 in NW.,
S 23 in NE.,
S 26 in SE., and
S 27 in SW. quadrant; from which

A willow 10 ins. in diam., brs. N. 17° W., 175 lks. dist., marked T 1 N R 1 W S 22 B T.

No other trees suitable for bearing trees available, and since the cor. falls in a traveled road, I omit the other cor. accessories.

Land, rolling, slopes gently to the west.

Soil, sandy loam, with considerable alkali; 1st and 3rd rate.

Timber, scattering cottonwood and willow planted along limiting lines of roads.

March 19, 1915.

The north half mile of the line bet. secs. 22 and 23 as marked by the lines of improvement around the claim in the NE. 1/4 of sec. 22 is so much at variance with the south half mile as to make the present location appear unreasonable, and since very recent surveys of the line bet. secs. 14 and 15 have been made by private surveyors, which fail to agree with the north half mile of the line between secs. 22 and 23. Therefore, since the cor. of secs. 14, 15, 22 and 23 cannot be found after diligent search, and no testimony of settlers being available from which to locate its original position, I reestablish this cor. in its original position in accordance with the Circular on the Restoration of Lost or Obliterated Corners, as follows:

April 1, 1915. I set off 33° 25' N. on the lat. arc; 4° 18' N. on the decl. arc; and at 8h. 34m. a.m., l.m.t., determine a meridian with the solar at the temp. cor. of secs. 14, 15, 22 and 23 on the N. and S. trial line hereinbefore described.

At a point 22 lks. E. of this temp. cor., and 12 lks. S. of temp. cor. of same secs. on E. and W. trial line, I reestablish the sec. cor., as follows:

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T 1 N R 1 W in N., and
1915 in S. half;
S 15 in NW.,
S 14 in NE.,
S 23 in SE., and
S 22 in SW. quadrant; from which,

A cottonwood 8 ins. in diam., brs. N. 52° 45' E., 40 lks. dist., marked T 1 N R 1 W S 14 B T.

A cottonwood, 18 ins. in diam., brs. S. 88° E., 34 lks. dist., marked T 1 N R 1 W S 23 B T.

A cottonwood, 14 ins. diam., brs. S. 78 1/2° W., 50 lks. dist., marked T 1 N R 1 W S 22 B T.

A cottonwood, 12 ins. in diam., brs. N. 63 1/2° W., 57 lks. dist., marked T 1 N R 1 W S 15 B T.

Thence

S 0° 46' E., on a true line, bet. secs. 22 and 23.

Over level, sandy bottom land, along the Agua Fria river, subject to overflow to a depth of from 1 to 2 1/2 ft., through cottonwood timber and arrowweed undergrowth.

31.30 Canal 20 lks. wide, 4 ft. deep, course S. 80° W.

32.95 A point from which an adobe house brs. east about 2.00 chs. dist.

33.57 Leave timber and brush, brs. E. and W.; enter cultivated field brs. E. about 3.00 chs., and west about 12 chs.

40.35 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor., marked on brass cap,
1/4 S 22 in W.,

16. Partial Resurvey of Subdivision lines of Township 1N R 1 W

Chains

- S 23 in E., and
1915 in S. half; from which,
A cottonwood, 18 ins. in diam., brs. S. 4° 45' E.,
338 lks. dist., marked $\frac{1}{4}$ S 23 B T.
- A cottonwood, 24 ins. in diam., brs. S. 15° W.,
375 lks. dist., marked $\frac{1}{4}$ S 22 B T.
- 44.10 Wire fence brs. E. about 250 lks., and west about 20.00 chs.
- 51.40 Leave cultivated land, brs. N. 10° E., 11.00 chs. and S. 10° W. about 30 chs.
- 54.75 Irrigating ditch 5 lks. wide, 2 ft. deep, course N. 10° E.; leave river bottom brs. N. 20° E., and S. 20° W., over rolling land.
- 57.05 Telephone line brs. N. 10° E., and S. 10° W.
- 58.00 Enter road brs. N. 10° E. and S. 0° 56' E., thence along center line of road.
- 80.70 Intersect the reestablished cor. of secs. 22, 23, 26 and 27. Land, level and rolling. Soil, north 60 chs., rich sandy loam, 18 to 24 ins. deep on sand subsoil; south 20 chs., medium rich sandy loam, with some clay and stone. Timber, cottonwood.

-
- From reestablished cor. of secs. 14, 15, 22 and 23, hereinbefore described,
S. 89° 22' E., on a true line, bet. secs. 14 and 23.
Over level sandy bottom land, along the Agua Fria river, through cottonwood and willow timber and arrowweed brush undergrowth, 6 ft. high.
 - 24.05 Wire fence brs. N. 40° E. and S. 40° W., intersects remains of old line of fence brs. E. and W. about 3.00 chs. S. of line. Leave timber and brush, brs. NE. and SW. 1 enter cultivated land, brs. N. 40° E. and S. 40° W., about 3 chs. dist.
 - 39.25 Irrigating ditch, 6 lks. wide, 1½ ft. deep, course S. 10° E.
 - 39.30 Road brs. E. and W.; leave cultivated land, brs. N. and S.
 - 39.38 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 14 in N., and
S 23 1915 in S. half; from which
A cottonwood, 24 ins. in diam., brs. N. 22½° W.,
16 lks. dist., marked $\frac{1}{4}$ S 14 B T.
A cottonwood, 30 ins. in diam., brs. S. 43½° W., 13 lks. dist., marked $\frac{1}{4}$ S 23 B T.
 - 40.00 Leave river bottom, brs. N. 40° E. and S. 40° W., ascend W. slope over rolling, sandy land, through greasewood brush.
 - 60.00 Enter Public road from Phoenix to Buckeye, Arizona, brs. E. and S. 40° W.; thence along center of road.
 - 78.76 Intersect the recognized point for cor. of secs. 13, 14, 23 and 24 at intersection of center line of N. and S. road, with center line of road from Phoenix to Buckeye, Arizona, bearing E. and W., hereinbefore described. Land, level and rolling. Soil of W. 40 chs. rich moist sandy loam on sand subsoil. E. 40 chs., sandy clay loam, 8 to 12 ins. deep on clay subsoil. Timber, scattering cottonwood and willow. At the above described cor. point, I set off 4° 21½' N. on the decl. arc, and at noon, apparent time, observe the sun on the meridian, and obtain a reading of 33° 25' N. on the lat. arc.

From reestablished cor. of secs. 14, 15, 22 and 23, hereinbefore described,
N. 1° 04' W., on a true line, bet. secs. 14 and 15.
Over level, sandy bottom land along the Agua Fria river, subject to overflow to a depth of from 1 to 3 ft.,

Partial Resurvey of Subdivision lines of T.1 N., R.1 W. 17.

Chains.

- through cottonwood and willow timber and arrowweed undergrowth, 6 to 8' ft. high,
- 2.10 Intersect the left bank of the Agua Fria river, 3. ft. high, brs. E. and W.
- 2.70 Center of river, water, 4 to 12 ins. deep, on gravelly bottom flows west.
- 3.30 Intersect the right bank of the Agua Fria river, 3 ft. high, brs. E. and W.
- 40.35 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished sec. cor., marked on brass cap,
 - 1/2 S 15 in W.,
 - S 14 in E., and
 - 1915 in S. half; from which
 - A cottonwood, 8 ins. in diam., brs. S. 9 1/4° E., 66 lks. dist., marked 1/2 S 14 B T.
 - A cottonwood, 8 ins. in diam., brs. S. 63 1/4° W., 68 lks. dist., marked 1/2 S 15 B T.
- 40.70 Remains of wire fence, brs. E. and W.
- 59.00 Leave timber and brush, brs. NE and SW.; enter cleared land.
- 73.00 Leave river bottom, brs. NE and SW.; ascend over rolling land, slopes to the SE.
- 75.78 Wire fence along right of way of the Arizona Eastern Ry., brs. N. 70° E. and S. 70° W.
- 76.73 Center of the Arizona Eastern Ry., single track, brs. N. 70° E. and S. 70° W.
- 77.26 Western Union Telegraph line, brs. N. 70° E. and S. 70° W.
- 80.70 Intersect the recognized cor. of secs. 10, 11, 14 and 15, previously described.

Land, level bottom land.
 Soil, moist sandy loam, medium rich, on sand and gravel subsoil.
 Timber, cottonwood and willow, April 1, 1915.

April 2, 1915.
 Since the random line, bet. secs. 27 and 28, run by me March 17, 1915, as hereinbefore described, was found to agree with the improvements on the claim in the NE. 1/4 of sec. 28, I make the random line the true line, and reestablish the cor. of secs. 27, 28, 33 and 34 at the point of intersection of said random with the E. and W. trial line, as follows:

- Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked on brass cap,
 - T 1 N R 1 W in N., and
 - 1915 in S. half;
 - S 28 in NW.,
 - S 27 in NE.,
 - S 34 in SE., and
 - S 33 in SW. quadrant; from which,
 - A cottonwood 4 ins. in diam., brs. N. 25 3/4° E., 110 lks. dist., marked T 1 N R 1 W S 27 B T.
 - A cottonwood, 6 ins. in diam., brs. S. 53° E., 45 lks. dist., marked T 1 N R 1 W S 34 B T.
 - A cottonwood, 24 ins. in diam., brs. S. 10° W., 228 lks. dist., marked T 1 N R 1 W S 33 B T.
 - A cottonwood, 6 ins. in diam., brs. N. 17 1/2° W., 262 lks. dist., marked T 1 N R 1 W S 28 B T.
- At 7h. 04m., a.m., 1.m.t., April 2, I set off 33° 23 1/2' N. on the lat. arc; 4° 41' N. on the decl. arc, and determine a meridian with the solar at this cor. Thence,
 - S. 89° 57' E. on a random line bet. secs. 27 and 34,
 - 40.00 Set temp. sec. cor. side of wire fence.
 - 78.54 Intersect the reestablished cor. of secs. 26, 27, 34 and 35.
 - Thence N. 89° 57' W. on a true line bet. secs. 27 and 34.
 - Over nearly level sandy bottom land, along S. side of wire fence.
 - 30.05 Telephone line brs. N. and S. 26 ins. in
 - 39.27 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground alongside of wire fence, brs. E. and W. for

18. Partial Resurvey of Subdivision lines of T. 1 N. R. 1 W.

Chains.

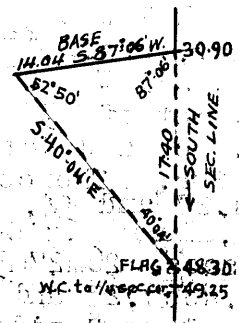
- reestablished $\frac{1}{4}$ sec. cor., marked on brass cap, S 27 in N., and S 34, 1915 in S. half; from which
- A mesquite 24 ins. in diam., brs. N. $52\frac{1}{2}^{\circ}$ W., 115 lks. dist., marked S 27 B T.
- A mesquite 6 ins. in diam., brs. S. $53\frac{3}{4}^{\circ}$ W., 125 lks. dist., marked S 34 B T.
- 40.00 Wire fence brs. about north and south.
- 42.50 Slough 50 lks. wide, 10 ft. deep, course S. 40° W.
- 62.05 Corner of wire fences brs. N. and S. and E. and W.
- 62.25 Intersect the left bank of the Agua Fria river 6 ft. high, brs. N. 20° E. and S. 20° W.
- 62.75 Center of the Agua Fria river 100 lks. wide, $1\frac{1}{2}$ ft. deep, course S.
- 63.25 West shore of river, thence over flood plain, through cottonwood timber and willow and water moat brush undergrowth.
- 78.54 The reestablished cor. of secs. 27, 28, 33 and 34. Land, level and rolling, slopes to the southwest. Soil of east 60 chs. sandy loam, with some alkali, 1 to 3 ft. deep on clay and sand subsoil; west 19.00 chs. loose river sand. Timber, scattering cottonwood and mesquite.

Since the original survey of the subdivision lines in this township, the Gila and Agua Fria rivers have so changed their courses as to form a flood plain of the land south of the reestablished cor. of secs. 27, 28, 33 and 34, thus precluding the possibility of finding the original cor. of frac. secs. 33 and 34 described in the field notes furnished me by the surveyor general.

- Therefore, from the reestablished cor. of secs. 27, 28, 33 and 34, run South, on a true line, bet. secs. 33 and 34, resurveying the north half of said line, and surveying the south half.
- Over level, sandy flood plain of the Agua Fria river, through scattering cottonwood and mesquite timber and willow, and arrowweed brush 5 ft. high.
- 18.50 Intersect the right bank of the present channel of the Agua Fria river $2\frac{1}{2}$ ft. high, brs. E. and W.
- 19.15 Center of the Agua Fria river, 2 ft. deep, course west.
- 19.75 Intersect left bank of the Agua Fria river, 3 ft. high, brs. E. and W.; thence over flood plain of the Gila river; leave timber brs. E. and NW.
- 22.00 Center of the Buckeye canal 40 lks. wide, course N. 70° W.
- 30.90 Intersect the right bank of the Gila River 3 ft. high, brs. E. and N. 80° W. The water in the river being too high to admit of fording on this day, thus rendering chain measurement across impracticable, I set a flag on line at this point for triangulation.

April 2, 1915.
April 8, 1915. At this point at 7h. 32m. a.m., l.m.t., I set off $33^{\circ}23'$ N. on the lat. arc; $6^{\circ}58'$ N. on the decl. arc, and determine a meridian with the solar.

Triangulate dist. across river, as follows:
From flag measure a base line S. $87^{\circ}06'$ W., 14.04 chs.
Set flag on line on left bank of river.
From W. end of base, flag brs. S. $40^{\circ}04'$ E.
Included angles are $52^{\circ}50'$, $87^{\circ}06'$ and $40^{\circ}04'$, the sum of which is $180^{\circ}00'$.
Dist. on sec. line from E. end of base to flag is obtained by
 $\frac{\sin 52^{\circ}50' \times \text{base}}{\sin 40^{\circ}04'}$ or $\frac{79688 \times 14.04}{64360} = 17.40$ chs.



- 48.30 Flag point on left bank of Gila River; bank 5 ft. high, brs. N. 80° E. and S. 80° W. Enter dense arrowweed undergrowth.

Partial Resurvey & survey of Subdivision lines of T.1 N.R.1W. 19

Chains.

49.25 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor., which falls in the river, marked on brass cap,
 W C $\frac{1}{4}$ N. of center,
 1915 in S. half;
 S 34 in SE., and
 S 33 in SW. quadrant; from which
 A cottonwood, 10 ins. in diam., brs. N. $86\frac{1}{2}^{\circ}$ E., 282 lks. dist., marked WC $\frac{1}{4}$ S 34 B T.
 No other trees within limits; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

53.45 Old slough in center of, 180 lks. wide, course N. 80° W.
 58.60 Old slough 100 lks. wide, banks 8 ft. high, course N. 80° W.
 59.20 Top of bank on S. side of slough, enter scattering mesquite timber, brs. N. 80° W. and S. 80° E.

60.00 Leave timber and brush, brs. E. and N. 80° W.; enter plowed field brs. E. about 5.00 chs., and W. 8.00 chs.

79.12 Intersect the G. & S. R. Base line 248 lks. S. $89^{\circ}45'$ E. of the standard cor. of secs. 33 and 34, which is an iron post 3 ins. in diam., 12 ins. above ground, marked and witnessed as described by the surveyor general.
 At the point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs. 33 and 34, marked on brass cap,
 C C S of center,
 T 1 N R 1 W in N.,
 T 1 S R 1 W, 1915 in S., and
 AP in W half;
 S 33 in NW., and
 S 34 in NE. quadrant; from which
 A mesquite, 24 ins. in diam., brs. N. $45\frac{1}{2}^{\circ}$ E., 200 lks. dist., marked T 1 N R 1 W S 34 B T.
 A mesquite 12 ins. in diam., brs. N. $43\frac{1}{2}^{\circ}$ W., 308 lks. dist., marked T 1 N R 1 W S 33 B T.
 I change the standard cor. of secs. 33 and 34 from a standard sec. cor. to an angle point.
 Land, level bottom.
 Soil of N. 48 chs. loose river sand; south 22 chs. rich, fine sandy loam, moist 4 ft. deep, on gravelly subsoil.
 Timber, scattering cottonwood and mesquite.
 April 2 and 8, 1915.

April 2, 1915. From reestablished cor. of secs. 27, 28, 33 and 34,
 North, on a true line, bet. secs. 27 and 28.
 Over flood plain of the Agua Fria river, through scattering cottonwood timber.

35.00 Leave flood plain, brs. NE. and SW., over sandy bottom land along river.

40.24 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 28 in W.,
 S 27 in E., and
 1915 in S. half; from which,
 A cottonwood, 18 ins. in diam., brs. N. 76° W., 320 lks. dist., marked $\frac{1}{4}$ S 28 B T.
 A cottonwood, 9 ins. in diam., brs. S. $81\frac{1}{2}^{\circ}$ E., 384 lks. dist., marked $\frac{1}{4}$ S 27 B T.

48.40 Intersect right bank of the Agua Fria river, 6 ft. high, brs. NE and SW.; thence over rolling land.

60.25 Intersect wire fence, 10 lks. W. of the SE. cor. of field brs. E. and W.; thence along old adobe wall constructed several years ago to divert the flood waters of the Agua Fria river from the lands on the west.

80.48 Intersect the reestablished cor. of secs. 21, 22, 27 and 28, hereinbefore described.

after

20. Partial Resurvey of Subdivision lines of T.1 N., R.1 W.

Chains.

Land, rolling and level.
Soil of S.50 chs. mostly dry sand; N.30 chs., rich fine sandy loam about 3 ft. deep, on gravelly subsoil.
Timber, scattering cottonwood.

April 2, 1915.

March 22, 1915: At 7h.07m. a.m., l.m.t., I set off $33^{\circ}24\frac{1}{2}'$ N. on the lat. arc; $0^{\circ}23\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 22, 23, 26 and 27, hereinbefore described.

Thence

N. $88^{\circ}38'$ W., on a true line, bet. secs. 22 and 27.

Over nearly level land, along center of Public road, fenced.

.25 Telephone line, brs. N. and S.

29.80 Old left bank of the Agua Fria river, 10 ft. high, brs. N. and S.; descend.

30.50 Foot of bank in Agua Fria river valley, enter rolling, sandy bottom land, brs. N. and S., overflows to a depth of about 3 ft.

39.20 Set an iron post 3 ft. long, 1 in. in diam., in center of road from Phoenix to Buckeye, Arizona, 4 ins. below the surface of the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

S 22 in N., and

S 27, 1915 in S. half; from which

A cottonwood, 6 ins. in diam., brs. N. $0\frac{1}{2}^{\circ}$ E., 136lks. dist., marked $\frac{1}{4}$ S 22 B T.

No other trees within limits, and as the cor. falls in the center of travelled road, I omit the other accessories.

55.50 Intersect the left bank of the Agua Fria river, 2 ft. high, brs. N. and S.; leave road brs. N. 85° W.

56.25 Center of river, 8 ins. deep.

56.95 Intersect right bank of the Agua Fria river, brs. N. and S., bank 3 ft. high; thence over sandy bottom land.

77.80 An adobe house, brs. S., about 20 lks.

78.40 Intersect the recognized point for cor. of secs. 21, 22, 27 and 28 shown me by Joseph H. Carillo, as hereinbefore described.

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap,

T 1 N R 1 W in N., and

1915 in S. half;

S 21 in NW.,

S 22 in NE.,

S 27 in SE., and

S 28 in SW. quadrant; from which

A cottonwood, 14 ins. in diam., brs. S. $85\frac{3}{4}^{\circ}$ E., 20 lks. dist., marked T 1 N R 1 W S 27 B T.

Land, level and rolling.

Soil, sandy 1st and 3rd rate.

Timber, cottonwood.

March 22, 1915.

April 2, 1915.

N. $1^{\circ}11'$ W., on a true line, bet. secs. 21 and 22.

Over rolling sandy land in roadway.

.60 Center of road from Phoenix to Buckeye, Arizona, brs. N. $89^{\circ}50'$ W., and S. $89^{\circ}50'$ E.19.75 Ranch road brs. N. 50° E. and S. 50° W.39.58 Set a granite stone 12x9x6 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S 21 on W., and S 22 on E. faces; dig pits 18x18x12 ins., N. and S. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.58.90 Road to ranch, brs. S. 20° E.

79.16 Intersect the stone recognized as cor. of secs. 15, 16, 21 and 22, as hereinbefore described.

Partial Resurvey of Subdivision lines of T.1 N. R. 1 W. 21

Chains.

Land, rolling, slopes to the southeast.
Soil dry sandy loam, some alkali, 12 ins. deep, on dry clay subsoil.
No timber.

April 2, 1915.

April 1, 1915. From reestablished cor. of secs. 14, 15, 22 and 23,

N. $89^{\circ}07'W.$, on a true line, bet. secs. 15 and 22.

Over level sandy bottom land, along the Agua Fria river, subject to overflow to a depth of from 1 to $2\frac{1}{2}$ ft., through cottonwood and willow timber, and dense arrowweed and cottonwood brush undergrowth.

- 6.15 Intersect left bank of the Agua Fria river 4 ft. high, brs. N. $20^{\circ}E.$ and S. $20^{\circ}W.$
- 6.75 Center of river, water clear, 12 ins. deep, on gravelly bed.
- 7.30 Intersect right bank of the Agua Fria river, 4 ft. high, brs. N. $20^{\circ}E.$ and S. $20^{\circ}W.$; thence over level land.
- 22.22 Irrigating ditch, 10 lks. wide, course S. $20^{\circ}W.$
- 23.65 Irrigating ditch, 15 lks. wide, course S. $20^{\circ}W.$
- 25.50 Irrigating ditch, 10 lks. wide, 5 ft. deep, course S. $20^{\circ}W.$; leave bottom land, brs. N. $20^{\circ}E.$, and S. $20^{\circ}W.$; ascend gradually E. slope, over rolling land.
- 26.00 Leave timber, brs. NE. and SW.
- 29.30 Road to ranches along the river brs. N. $40^{\circ}E.$ and S. $40^{\circ}W.$
- 39.15 Intersect the stake recognized as $\frac{1}{4}$ sec. cor., as hereinbefore described.

April 1, 1915.

April 5, 1915. At 10h. 18m. a.m., l.m.t., I set off $33^{\circ}25'$ N. on the lat. arc; $5^{\circ}52'$ N. on the decl. arc, and determine a meridian with the solar at this $\frac{1}{4}$ sec. cor.

Thence,

West, on a true line, bet. secs. 15 and 22 (W. half).

Over rolling sandy land, through sage and greasewood brush undergrowth, 2 ft. high.

- 11.85 The southeast cor. of cultivated field at cor. of wire fence, brs. N. and W.; thence along fence line.
- 19.80 Telephone line from the Buckeye Canal headgate to Phoenix, Arizona, brs. N. $56^{\circ}E.$ and S. $56^{\circ}W.$
- 39.36 Cor. of wire fence, brs. N. and S. and E. at southwest cor. of cultivated land.
- 39.90 Intersect the recognized cor. of secs. 15, 16, 21 and 22, hereinbefore described.

Land, level and rolling.

Soil of E. 30 chs., sandy loam on gravelly and sand subsoil.
W. 49 chs., sandy clay loam, medium fine, 12 ins. deep, on clay subsoil.

Timber, cottonwood, willow and mesquite.

April 1 and 5, 1915.

March 22, 1915. From reestablished cor. of secs. 21, 22, 27 and 28,

N. $89^{\circ}53'W.$, bet. secs. 21 and 28, in road from Phoenix to Buckeye, fenced on south side by settlers.

- 8.77 Joseph R. Carillo's house brs. S. 130 lks. dist.
- 40.94 Intersect a point in center of the Phoenix Buckeye road in line with property line fence bearing south in sec. 28, at which point I set an iron post 3 ft. long, 1 in. in diam., 4 ins. below the surface of the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 in N., and $\frac{1}{4}$ S 28, 1915 in S half.

This cor. falling in the center of road, I omit the cor. accessories. A frame house brs. S. $63\frac{1}{2}^{\circ}W.$, 335 lks. dist., owner, unknown.

- 47.29 A point in road in line with wire fence in sec. 28, brs. S.
- 57.16 A point in center of road, 45 lks. N. of cor. of wire fence, brs. S. and E.

22. Partial Resurvey of Subdivision lines of T. 1 N. R. 1 W.

Chains.

- 57.31 A road to the headgate of the Buckeye Canal turns south.
- 57.78 Telephone line from Phoenix, Arizona, to the headgate of the Buckeye canal brs. N. $43\frac{1}{2}^{\circ}$ E. and S. $43\frac{1}{2}^{\circ}$ W.
- 81.88 Intersect a point on center line of the road from Phoenix to Buckeye, Arizona, bearing E. and W., at its intersection with center line of road, brs. south, as hereinbefore described.
- At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 4 ins. below the surface of the ground for reestablished cor. of secs. 20, 21, 28 and 29, marked on brass cap,
- T 1 N R 1 W in N., and
1915 in S half;
S 20 in NW.,
S 21 in NE.,
S 28 in SE., and
S 29 in SW. quadrant; from which,
A mesquite, 12 ins. in diam., brs. S. $53^{\circ}45'$ W.,
381 lks. dist., marked T 1 N R 1 W S 29 B T.
- No other trees available, and since the cor. falls in center of road, I omit the construction of other cor. accessories.
-
- From reestablished cor. of secs. 20, 21, 28 and 29, S. $0^{\circ}16'$ E., on a random line, as determined from existing property lines, bet. secs. 28 and 29.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.58 Intersect the E. and W. trial line 10 lks. W. of the temp. cor. of secs. 28, 29, 32 and 33, hereinbefore described.
- At point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 28, 29, 32 and 33, marked on brass cap,
- T 1 N R 1 W in N., and
1915 in S half;
S 29 in NW.,
S 28 in NE.,
S 33 in SE., and
S 32 in SW. quadrant, from which
A willow, 8 ins. in diam., brs. N. $52\frac{1}{2}^{\circ}$ E., 79 lks. dist., marked T 1 N R 1 W S 28 B T.
A willow, 10 ins. in diam., brs. S. 76° E., 75 lks. dist., marked T 1 N R 1 W S 33 B T.
A willow 6 ins. in diam., brs. S. 33° W., 30 lks. dist., marked T 1 N R 1 W S 32 B T.
A willow, 6 ins. in diam., brs. N. $48\frac{1}{2}^{\circ}$ W., 31 lks. dist., marked T 1 N R 1 W S 29 B T.
- Thence,
N. $0^{\circ}16'$ W., making the random line, the true line.
- Over level bottom land along the Gila river, subject to the overflow in times of high water to a depth of about 3 ft., through willow timber and dense arrowweed and willow brush undergrowth.
- 4.75 Leave overflow bottom land and brush, brs. NE. and SW.; asc. old river bank, 6 ft. high.
- 5.00 Top of old right bank of the Gila river at wire fence brs. NE. and SW.
- 10.00 A house belonging to the Buckeye Canal Co., brs. W. 60 lks. dist.
- 13.25 Wire fence brs. E. and W., 40 lks. W. of intersection with wire fence, brs. N. and S.
- 15.00 Enter road brs. W. and N. $0^{\circ}16'$ E., thence along center of road; leave timber, brs. E. and W.
- 40.29 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- S 29 in W.,
S 28 in E., and
1915 in S half; this cor. falls far enough from the wheel tracks in road to admit of the necessary cor. accessories; therefore, dig pits 18x18x12

Chains.

N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 80.58 Intersect the reestablished cor. of secs. 20, 21, 28 and 29. At this cor. I set off $0^{\circ}27'N.$ on the decl. arc, and at noon apparent time March 22, 1915, observe the sun on the meridian; the resulting lat. is $33^{\circ}24'N.$
 Land, rolling and level.
 Soil, sandy and alkali clay loam, 3rd rate.
 Timber, willow.
 March 22, 1915.

April 2, 1915. At the reestablished cor. of secs. 27, 28, 33 and 34, I set off $4^{\circ}45'N.$ on the decl. arc, and at noon apparent time, observe the sun on the meridian, and obtain a reading of $33^{\circ}23\frac{1}{2}'N.$ on the lat. arc.

Thence, $N.89^{\circ}57'W.$, on a true line, bet. secs. 28 and 33.
 Over level sandy land, flood plain of the Agua Fria river, through scattering cottonwood and willow timber and arrowweed and water mat brush, 4 ft. high:
 40.79 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 28 in N., and
 $\frac{1}{4}$ S 33, 1915 on S. half;
 no trees suitable for bearing trees within limits; dig pits $18 \times 18 \times 12$ 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.
 81.58 Intersect the reestablished cor. of secs. 28, 29, 32 and 33, hereinbefore described.
 Land, level river bottom.
 Soil, sandy.
 Timber, scattering cottonwood and willows.

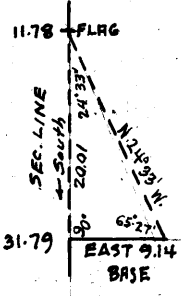
April 2, 1915.

April 3, 1915. At 7h. 03m., a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'N.$ on the lat. arc; $5^{\circ}04\frac{1}{2}'N.$ on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 28, 29, 32 and 33.

Thence,
 South, on true line bet. secs. 32 and 33 resurveying for 20.00 chs., thence completing survey of the line.
 Over level sandy bottom land, along the Gila river, subject to overflow to a depth of from 1 to $2\frac{1}{2}$ ft.
 2.50 Right bank of the Buckeye Canal 50 lks. wide, 4 ft. deep, brs. E. and W.
 3.00 Left bank of Buckeye Canal, brs. E. and W., thence over flood plain of the Gila river.
 11.78 Intersect the right bank of the Gila river $2\frac{1}{2}$ ft. high, brs. $N.60^{\circ}W.$ and $S.70^{\circ}E.$ The water in the river being too high to ford on this day, I set a flag at this point to mark the line and measurement, and discontinued the survey of the line on this day. April 3, 1915.

April 8, 1915. At this point at 7h. 2m. a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'N.$ on the lat. arc; $6^{\circ}58'N.$ on the decl. arc, and determine a meridian with the solar.

Triangulate the dist. across the Gila River, as follows:
 Leave the flag on line on right bank.
 Proceed to point on sec. line on left bank, and measure a base line E. 9.14 chs.
 From E. end of base flag brs. $N.24^{\circ}33'W.$
 Included angles are $65^{\circ}27'$, $90^{\circ}00'$ and $24^{\circ}33'$, the sum of which is $180^{\circ}00'$.
 Dist. on sec. line from flag to W. end of base is obtained by
 Tang. $65^{\circ}27' \times$ base or $2.18923 \times 9.14 = 20.01$ chs.
 which added to 11.78 chs. =



31.79 Triangulation point on left bank of Gila river. Bank 6

24 Partial Resurvey and survey of T. 1 N. R. 1 W.

- Chains.
- high, brs. N. 80°W. and S. 80°E. Thence over level sandy bottom land.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked with brass cap,
 $\frac{1}{4}$ S 32 in W.,
 $\frac{1}{4}$ S 33 in E., and
 1915 in S. half;
 dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 At this cor., I set off 7°02' N. on the decl. arc, and at noon, apparent time, April 8, 1915, observe the sun on the meridian, and obtain a reading of 33°23' N. on the lat. arc.
- 52.80 River road brs. E. and W.
- 55.00 A point from which a frame house brs. east about 250 lks. dist., name of occupant not known.
- 57.00 Leave level bottom land, brs. E. and W.; ascend NW. slope, over stony mountainous land.
- 60.00 Point of spur 25 ft. above valley, brs. NW.; descend.
- 65.10 Dry ravine, 10 lks. wide, 20 ft. below top of spur, course N. 30°W.; ascend.
- 74.50 Top of spur, 75 ft. above ravine, brs. N. 10°E. and S. 10°W.; descend 57 ft.
- 76.80 Dry ravine, 10 lks. wide, 15 ft. deep, course N. 10°E.; ascend.
- 79.44 Intersect the G. & S. R. Base line 17 lks. S. 89°52'E. of the standard cor. of secs. 32 and 33, which is a granite stone 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
 At the point of intersection, set an iron post 3 ft. long, 2 ins. in diam.; 24 ins. in the ground for closing cor. of secs. 32 and 33, marked on brass cap,
 C C S of center,
 T 1 N R 1 W in N.,
 T 1 S, R 1 W 1915 in S., and
 AP in W half;
 $\frac{1}{4}$ S 32 in NW., and
 $\frac{1}{4}$ S 33 in NE. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. I change the old standard cor. of secs. 32 and 33, and the standard $\frac{1}{4}$ sec. cors. on the south bdrs. of secs. 31, 32 and 33 from standard sec. and quarter sec. cors. to angle points.
 Land, level and mountainous.
 Soil of the level bottom land along the Gila river, medium dry sandy loam about 24 ins. deep on sand and gravel subsoil. Soil of the mountainous land, stony clay loam about 6 ins. deep on stone and clay subsoil.
 No timber.
- April 8, 1915.
-
- April 5, 1915. At 7h. 03m. a.m., l.m.t., I set off 33°24 $\frac{1}{2}$ ' N. on the lat. arc; 5°50' N. on the decl. arc, and determine with the solar a meridian at the reestablished cor. of secs. 20, 21, 28 and 29.
 Thence,
 N. 0°18'E. on a true line, bet. secs. 20 and 21.
 Over rolling, sandy land, through sage and greasewood brush undergrowth, 3 ft. high.
- 35.25 Old road brs. N. 70°W. and S. 70°E.
- 36.64 Road brs. N. 80°W. and S. 80°E.
- 40.13 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 20 in W.,
 $\frac{1}{4}$ S 21 in E., and
 1915 in S. half;
 dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Partial Resurvey of Subdivision lines of T.1 N., R.1 W. 25

Chains.

43.30 Old road brs. E and W.
 48.82 Corner of wire fence along the Arizona Eastern right-of-way brs. east about 20 lks. dist.
 49.70 Center of the Arizona Eastern Ry. single track brs. N. 80° E. and S. 80° W.
 50.26 Western Union Telegraph line brs. N. 80° E. and S. 80° W.
 50.60 Right-of-way fence along the Arizona Eastern Ry. brs. N. 80° E. and S. 80° W.
 53.10 Road to Avondale, Arizona, brs. E & W. Thence along E. side of road, brs.
 80.26 Intersect the old stake recognized as the point for cor. of secs. 16, 17, 20 and 21, hereinbefore described.
 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 16, 17, 20 and 21, marked on brass cap,
 T 1 N R 1 W in N.,
 1915 in S. half;
 S 17 in NW.,
 S 16 in NE.,
 S 21 in SE., and
 S 20 in SW. quadrants;
 dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level and rolling.
 Soil, sandy loam, 1st rate.
 No timber. Scattering undergrowth.

40.00 East, on a random line, bet. secs. 16 and 21.
 Set temp. 2 sec. cor.
 79.95 Intersect N. and S. line 102 lks. N. of the recognized cor. of secs. 15, 16, 21 and 22.
 Thence I run,
 N. 89° 16' W., on a true line, bet. secs. 16 and 21.
 Over rolling sandy land, through scattering sage and greasewood brush 2 ft. high.
 11.33 Road to Avondale, Arizona, brs. N. and S.
 32.96 Right-of-way fence along the Arizona Eastern Ry. bears N. 40° E. and S. 40° W.
 34.30 Center of the Arizona Eastern Ry., single track, brs. N. 40° E. and S. 40° W.
 35.16 Western Union Telegraph line brs. N. 40° E. and S. 40° W.
 35.70 Wire fence along railway brs. N. 40° E. and S. 40° W.
 39.98 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished 1/4 sec. cor., marked on brass cap,
 S 16 in N., and
 S 21, 1915 in S. half;
 dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 59.53 Road to Avondale, Arizona, brs. N. 50° E. and S. 50° W.
 79.96 The reestablished cor. of secs. 16, 17, 20 and 21.
 At this cor., I set off 5° 53 1/2' N. on the decl. arc, and at noon, apparent time, observe the sun on the meridian; the resulting lat. is 33° 25' N.
 Land, rolling prairie.
 Soil, dry sandy loam, about 12 ins. deep on clay subsoil.
 No timber.

April 5, 1915.

April 3, 1915: At 7h. 48m. a.m., l.m.t., I set off 33° 24 1/2' N. on the lat. arc; 5° 04 1/2' N. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 20, 21, 28 and 29.
 Thence,
 S. 89° 47' W., on a true line, bet. secs. 20 and 29, following center line of the road from Phoenix to Liberty, Arizona, over rolling sandy bottom land.

26. Partial Resurvey of Subdivision lines of T.1 N., R.1 W.

chains.

- 25 A point 52 lks. N. of NE. cor. of wire fence, brs. S. and W.
 18.11 A point 54 lks. N. of the NW. cor. of wire fence, brs. E. and S.
 19.55 Old road brs. N. 20° E. and S. 20° W.
 39.56 Intersect the stake, hereinbefore described, recognized as $\frac{1}{4}$ sec. cor. I remove the old stake, and in the same place Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 S 20 in N., and
 S 29, 1915 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.
 51.10 Road brs. N. 50° E. and S. 50° W., leads to Avondale, Arizona.
 79.12 Intersect the old post hereinbefore described, recognized as cor. of secs. 19, 20, 29 and 30, I remove the old post, and in the same place, set an iron post 3 ft. long, 2 ins. in diam., 40 ins. in the ground for reestablished cor. of secs. 19, 20, 29 and 30, marked on brass cap,
 T 1 N R 1 W in N., and
 1915 in S-half;
 S 19 in NW.,
 S 20 in NE.,
 S 29 in SE., and
 S 30 in SW. quadrant; from which
 A mesquite, 12 ins. in diam., brs. S. 53° 45' W., 381 lks. dist. marked T 1 N R 1 W S 30. B. T.
 No other trees within limits, and as this cor. falls in the center of the Public road, I omit the other cor. accessories such as pits and mound.
 Land nearly level valley.
 Soil, sandy clay loam, about 12 ins. deep, on adobe clay subsoil.
 No timber.

In my retracement I was unable to find any evidence from which to determine the bearing of the line bet. secs. 29 and 30; therefore I run,
 South, on a random line, bet. secs. 29 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

59.12 Intersect the right bank of the Gila river. The water in the river being too high to permit of chaining measurement across the river, I set a flag at this point to mark the line and measurement.

April 13, 1915.

April 7, 1915. At this point, at 8h. 2m. a.m., l.m.t., I set off $33^{\circ} 23\frac{1}{2}'$ N. on the lat. arc; $6^{\circ} 36'$ N. on the decl. arc, and determine a meridian with the solar.

Triangulate dist. across the Gila River, as follows:

Leave flag on line on right bank.

Proceed to point on sec. line on left bank, from which measure a base line east, 10.00 chs.

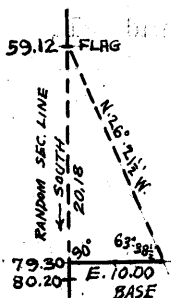
From E. end of base flag brs. N. $26^{\circ} 21\frac{1}{2}'$ W.

Included angles are $63^{\circ} 38\frac{1}{2}'$, $90^{\circ} 00'$ and $26^{\circ} 21\frac{1}{2}'$, the sum of which is $180^{\circ} 00'$. Dist. on sec. line from flag to W. end of base is obtained by

Tang. $63^{\circ} 28\frac{1}{2}'$ x base or $2.01817 \times 10.00 = 20.18$ chs., which added to 59.12 chs. =

79.30 Triangulation point on left bank of Gila river, as follows:

80.20 Intersect E. and W. trial line 38 lks. S. $89^{\circ} 57'$ E. of the temp. cor. of secs. 29, 30, 31 and 32, hereinbefore described. This point falls on the sandy flood plain of the Gila river, subject to overflow, at frequent intervals, to a depth of from 2 to 3 ft.; therefore, at the point of intersection, I drive a stake to mark the true point for re-established cor. of secs. 29, 30, 31 and 32.



Partial resurvey of Subdivision lines of T.1 N., R.1 W. 27.

Chains.

- Thence, North, bet. secs. 29 and 30, and make the random line the true line.
- Over sandy flood plain.
- .90 Intersect the left bank of the Gila River 2½ ft. high, brs. N.80°W. and S.80°E.
- 21.08 Intersect the right bank of the Gila river, 8 ft. high, brs. N 75°W. and S.80°E.; enter scattering mesquite timber and arrowweed and salt sage brush undergrowth 4 to 6 ft. high.
- 23.35 Road from Phoenix to Buckeye, Arizona, brs. E. and W.
- 26.80 Center of the Buckeye Canal, 40 lks. wide, 6 ft. deep, course N.70°W.
- 27.05 Telephone line from the headgate of the Buckeye canal to Buckeye, Arizona, brs. N.70°W. and S.70°E.
- 34.20 Center of the White Tanks canal, not completed, 40 lks. wide, 10 ft. deep, course N.70°W. and S.70°E.
- 40.10 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap,
 - ¼ S 30 in W.,
 - S 29 in E., and
 - 1915 in S. half;
 - no trees within limits. Dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
- 80.20 Intersect the reestablished cor. of secs. 19, 20, 29 and 30. Land, rolling river bottom, and level sandy flood plain. Soil, poor adobe clay loam, charged with alkali. Timber, scattering mesquite.

April 7, 1915.

April 3, 1915. From reestablished cor. of secs. 28, 29, 32 and 33,

N.89°57'W., on a true line, bet. secs. 29 and 32. Over level bottom land, subject to overflow to a depth of about 2 ft., through scattering willow and cottonwood timber and dense willow brush undergrowth; land swampy from recent overflow.

- .90 Ascend Buckeye canal bank, 6 ft.
- 11.12 Top of canal bank in center of road to ford on the Gila river, brs. N. and S.
- 1.30 Intersect the right bank of the Buckeye canal, 125 lks. N. of headgate, brs. N.30°W. and S.30°E.
- 1.80 Intersect left bank of the Buckeye canal, 5 ft. high, brs. N.30°W. and S.30°E., thence over level sandy bottom land.
- 23.55 Intersect the right bank of the Gila river, 4 ft. high, brs. N.50°W. and S.50°E.
- 39.76 The point for the reestablished ¼ sec. cor., falls in the Gila river; therefore, at
- 23.45 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to the reestablished ¼ sec. cor., marked on brass cap,
 - WC ¼ W. of center,
 - 1915 in S. half;
 - S 29 in NE., and
 - S 32 in SE. quadrant, from which
 - A cottonwood, 10 ins. in diam., brs. N.46½°E., 240 lks. dist., marked WC ¼ S 29 B T., and
 - A willow, 24 ins. in diam., brs. S.59°E., 216 lks. dist., marked WC ¼ S 32 B T.
- Finding the river too high to permit the fording on this day, I discontinue the survey of this line at this point on this date.

April 3, 1915.

April 7, 1915. At 10h.02m. a.m., l.m.t., I set off 33°23½' N. on the lat. arc; 6°37' N. on the decl. arc, and determine a meridian with the solar at the above described witness cor.

28. Partial resurvey and survey of Subdivision lines of T.1N., R.1W.

Chains.

- Continue line and measurement.
- 67.00 Intersect the left bank of the Gila river, 2 ft. high, brs. N. 50° W. and S. 50° E., thence over sandy flood plain, subject to frequent overflow to a depth of from 1 to $2\frac{1}{2}$ ft.
- 79.52 Intersect the true point for reestablished cor. of secs. 29, 30, 31 and 32.
Land, level sandy river bottom, subject to overflow.
Soil, mostly loose river sand, 3rd and 4th rate.
Timber, scattering willow and cottonwood on north side of river.
April 3, and 7, 1915.
-
- April 9, 1915. At 8h.02m., a.m., l.m.t., I set off $33^{\circ}23\frac{1}{2}'$ N. on the lat. arc; $7^{\circ}21'$ N. on the decl. arc, and determine a meridian with the solar at the true point for reestablished cor. of secs. 29, 30, 31 and 32.
Thence,
South on true line, bet. secs. 31 and 32, resurveying for 20.00 chs., thence completing survey of the line.
Over level sandy flood plain of the Gila river, subject to frequent overflows to a depth of from 1 to $2\frac{1}{2}$ ft.
- 19.00 Leave flood plain subject to frequent overflow; thence over level sandy river bottom land, through willow and arrow weed undergrowth, 4 to 6 ft. high.
- 20.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to the reestablished cor. of secs. 29, 30, 31 and 32, marked on brass cap,
W C S of center,
T 1 N R 1 W S 29, S 30 in N.,
1915 in S. half;
S 32 in SE., and
S 31 in SW. quadrant;
dig pits 18x18x12 ins., NE., SE., SW. and NW. of post $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 31 in W.,
S 32 in E., and
1915 in S. half; from which,
A cottonwood, 8 ins. in diam., brs. N. $1^{\circ}45'$ E., 335 lks. dist., marked $\frac{1}{4}$ S 32 B T.,
A cottonwood, 6 ins. in diam., brs. S. 83° W., 267 lks. dist., marked $\frac{1}{4}$ S 31 B T.
- 53.20 River road, brs. E. and W.; leave river bottom land, brs. E. and W.; enter stony, mountainous land; ascend N. slope, 300 ft.
- 73.90 Top of mountain brs. E. and W.; descend S. slope, 163 ft.
- 79.56 Intersect G. & S. R. Base Line, 50 lks. S. $89^{\circ}54'$ W. of the standard cor. of secs. 31 and 32, which is a granite stone 13x9x7 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
At the point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs. 31 and 32, marked on brass cap,
C C S of center,
T 1 N, R 1 W in N.,
T 1 S R 1 W, 1915 in S., and
A P in W half;
S 31 in NW., and
S 32 in NE. quadrant;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable. I change the standard cor. of secs. 31 and 32 from a standard sec. cor. to an angle point.
Land, level and mountainous.
Soil of the Gila flood plain, fine river sand; soil of the bottom land between the flood plain and the mountains, medium fine rich sandy loam about 24 ins. deep on sand and gravel subsoil; and soil of the mountainous land stony clay loam, 3 to 8 ins. deep, mostly 3rd rate.

Partial Resurvey and survey of Subdivisions lines of T.1N. R.1W. 29
Chains

Timber, scattering cottonwood and willow in the bottom land along the river.

Could not make observation for latitude on this day on account of being in boat crossing the Gila river at noon.

April 9, 1915.

April 7, 1915. From true point for reestablished cor. of secs. 29, 30, 31 and 32,

N. 89° 57' W., on a true line, bet. secs. 30 and 31.

Over level, sandy flood plain of the Gila River, subject to frequent overflows to a depth of from 1 to 3 ft.

39.72 The point for the $\frac{1}{4}$ sec. cor. falls on unsafe ground, where a cor. would be destroyed by floods; therefore, continue line and measurement, and find no high land within 20.00 chs. of the point for $\frac{1}{4}$ sec. cor., on which to establish a witness cor. to the $\frac{1}{4}$ sec. cor.; therefore, I do not set a cor. on this line.

79.25 Intersect the true point for cor. of secs. 30 and 31, on the W. bdy. of Tp., described in Book "A."

At this point, I set off 6° 39' N. on the decl. arc, and at noon, apparent time, observe the sun on the meridian; the resulting lat. being 33° 23 $\frac{1}{2}$ ' N.

Land, level sandy flood plain.

Soil, fine river sand.

No timber.

April 7, 1915.

April 3, 1915. From reestablished cor. of secs. 19, 20, 29 and 30,

S. 89° 47' W. on a true line, bet. secs. 19 and 30.

Over level sandy land, along road from Phoenix to Liberty, Arizona.

12.80 Dry sand wash, 30 lks. wide, 3 ft. deep, course S. 40° W.

21.95 Road. brs. S. 75° W.

39.62 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 19 in N., and

S 30, 1915 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.

69.64 Cross road from Phoenix to Liberty, Arizona, brs. N. 45° W. and S. 45° E.

79.04 Intersect the cor. of secs. 19, and 30 on W. bdy. of Tp., described in Book "A."

At this cor. I set off 5° 08' N. on the decl. arc, and at noon, apparent time, April 3, 1915, observe the sun on the meridian, and obtain a reading of 33° 24' N. on the lat. arc.

Land, level valley.

Soil, sandy clay loam about 12 ins. deep on clay subsoil.

Timber, scattering mesquite N. of line.

From reestablished cor. of secs. 19, 20, 29 and 30,

N. 0° 15' E., on a true line, bet. secs. 19 and 20.

Over level, sandy bottom land, through scattering mesquite timber and sage and greasewood brush undergrowth, 4 to 6 ft. high.

14.76 Center of the Arizona Eastern Ry., single track, brs. N. 80° E. and S. 80° W.; leave timber and undergrowth, brs. E. and W.

30. Partial Resurvey and survey of Subdivision lines of T 1 N R 1 W

- Chains.
- 15.23 Western Union Telegraph line, brs. N. 80° E. and S. 80° W.
- 19.38 A point on E. bdy. of cultivated field brs. N. and S. about 4.00 chs. E. of ranch house.
- 39.62 Intersect the old $\frac{1}{4}$ sec. cor. hereinbefore described. Thence, North, continuing measurement, following along E. side of cleared land.
- 79.55 Road brs. E. and W.
- 80.00 Intersect the stake set for cor. of secs. 17, 18, 19 and 20, on fence line, brs. E. and W., and recognized by property owners as the true point for cor. of secs. 17, 18, 19 and 20. I destroy the old stake, and in the same place set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 17, 18, 19 and 20, marked on brass cap.
- T 1 N R 1 W
1915 in S. half;
S 18 in NW.,
S 17 in NE.,
S 20 in SE., and
S 19 in SW. quadrant;
dig pits 18x18x22 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling, slopes to the south.
Soil, medium rich fine sandy loam, 1st rate.
Timber, mesquite.
- April 3, 1915.
-
- April 5, 1915. From reestablished cor. of secs. 16, 17, 20 and 21, S. $89^{\circ}44'$ W. on a true line, bet. secs. 17 and 20. Over rolling sandy land, along wire fence, through scattering clumps of mesquite timber.
- 39.36 Intersect the stake for $\frac{1}{4}$ sec. cor., hereinbefore described. I destroy the old stake, and in the same place set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 17 in N., and
 $\frac{1}{4}$ S 20, 1915 in S. half; from which
A mesquite, 5 ins. in diam., brs. N. $64\frac{1}{2}^{\circ}$ E., 74 lks. dist., marked $\frac{1}{4}$ S 17 B T.
A mesquite, 15 ins., in diam., brs. S. $5\frac{1}{2}^{\circ}$ E., 52 lks. dist., marked $\frac{1}{4}$ S 20 B T.
- Continue line and measurement.
- 79.20 Intersect the reestablished cor. of secs. 17, 18, 19 and 20. Land, rolling, slopes to the south. Soil, medium rich fine sandy loam, about 12 ins. deep, on clay and limestone shale subsoil. Timber, mesquite.
-
- S. $89^{\circ}32'$ W., on a true line, bet. secs. 18 and 19. Along south side of wire fence, over rolling, sandy land.
- 39.37 Intersect old stake for $\frac{1}{4}$ sec. cor., hereinbefore described. I destroy the old stake, and in the same place, set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 18 in N., and
 $\frac{1}{4}$ S 19, 1915 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.
- 63.00 A well bears S. 150 lks. dist.
- 79.00 A point 05 lks. S. of cor. of wire fence, brs. N. and E.
- 79.25 Dim road brs. N. and S.
- 79.49 Intersect the cor. of secs. 18 and 19 on W. bdy. of Tp., described in Book "A."
- Land, rolling, slopes to the south.
Soil, sandy clay loam about 8 ins. deep on clay and lime-

stone subsoil.
No timber.

April 5, 1915.

GENERAL DESCRIPTION.

The land in this township is nearly all level or rolling, and the soil ranges from 1st to 3rd rate. The soil of the bottom land along the Gila and Agua Fria rivers in the southern and southeastern parts of the township is generally a rich fine sandy loam, producing good crops with the aid of irrigation at the present time. The soil of the mountainous portion of the township is too stony to be of any value for agricultural purposes.

Small groves of cottonwood and willow are found in the bottom lands along the Gila and Agua Fria rivers, while mesquite timber is found on the higher lands back from the rivers.

The township is watered by the Gila and Agua Fria rivers, and canal systems already constructed over the major part of the township.

The town of Avondale situated near the center of sec. 15, contains a depot, one store, and three or four dwelling houses.

A large part of the land has been entered, and many settlers are residing on the land at the present time.

Boundaries of S. 1/2 of Township 1 N., R. 1 W.
Latitudes, departures, and closing errors.

Line designated.	Course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy., (G.&SR Base Line)	N. 89° 32' W.	159.68	1.30			159.68
	N. 89° 45' W.	80.00	.35			80.00
	S. 89° 53' W.	39.99		.08		39.99
	N. 89° 52' W.	78.68	.18			78.68
	N. 89° 57' W.	39.70	.03			39.70
	S. 89° 54' W.	39.68		.07		39.68
	S. 89° 36' W.	39.98		.28		39.98
West bdy. (S. 1/2)	North,	80.00	80.00			
	N. 0° 4' W.	39.83	39.83			.05
	N. 0° 6' W.	39.90	39.90			.07
	N. 0° 33' W.	39.77	39.77			.38
	North,	40.09	40.09			
Subdivisional Bdy.	N. 89° 32' E.	79.49	.65		79.49	
	N. 89° 44' E.	79.20	.37		79.20	
	S. 89° 16' E.	79.96		1.02	79.95	
	East,	39.90			39.90	
	S. 89° 07' E.	39.15		.60	39.14	
	S. 89° 22' E.	78.76		.87	78.76	
	N. 89° 30' E.	80.34	.70		80.34	
East bdy, (G&SR Mer.)	S. 0° 27' E.	80.14		80.14	.63	
	S. 0° 7' E.	159.66		159.66	.33	
Convergency.					.24	
Totals,			243.17	242.72	477.98	478.21
			242.72			477.98
Error in latitude,			0.45			
Error in departure,						0.23

CERTIFICATE OF UNITED STATES SURVEYOR.

BOOK 2980

I, Sidney E. Blout, U.S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. Surveyor General for Arizona for Group No. 40, bearing date of the 16th day of December, 1914, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed, retraced or resurveyed all those parts or portions of the Subdivision lines of

TOWNSHIP 1 NORTH, RANGE 1 WEST,
TOWNSHIPS 9 NORTH, RANGES 21, 22, 24 & 25 EAST,
TOWNSHIPS 10 NORTH, RANGES 18, 19, 20 & 21 EAST, and
TOWNSHIP 11 NORTH, RANGE 18 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes, and books E, F, G, H, I, J, K, L and M of Group No. 40, as having been executed by me, and under my direction; and that all the corners of said survey, retracement and resurvey, have been established or reestablished and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General for Group No. 40, Arizona, and in the specific manner described in the field notes, and that the foregoing, and notes in Books E, F, G, H, I, J, K, L and M are the original field notes of such survey, retracement and resurvey.

Subscribed at Phoenix, Arizona, on
January 24, 1916, by

Sidney E. Blout
U. S. Surveyor.

A P P R O V A L .

Office of United States Surveyor General,

Phoenix, Arizona, Sept. 19 1917.

The foregoing field notes of the retracement, resurvey and survey of part of the Subdivision lines of TOWNSHIP 1 NORTH, RANGE 1 WEST, of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Sidney E. Blout, U. S. Surveyor, under his special instructions dated December 16, 1914, for Group No. 40, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank J. Frost
U. S. Surveyor General.

~~I certify that the foregoing transcript of the field notes of the above described surveys, retracements and resurveys in Book 29, of Group No. 40, Arizona, has been correctly copied from the original notes on file in this office.~~