

BOOK "E"

BOOK 2646

FIELD NOTES

OF THE SURVEY OF THE

*South boundary of
and Retracement and Resurvey of the
West boundary of
Township 1 South ~ Range 1 West*

of the Gila and Salt River Base and Meridian,

In the State of *Arizona*

EXECUTED BY

Sidney E. Blout

In the capacity of U. S. Surveyor ^{*Supplemental special*}, under ^{*instructions dated*} *October 12*, 1912,
issued by the United States Surveyor General, ~~and telegraphic instructions from the~~
~~Commissioner of the General Land Office dated Jan 3, 1913~~ to govern surveys included
in Group No. *19*, which were approved by the Commissioner of the General Land
Office, *October 26*, 1912, pursuant to authority contained in the Act of
Congress dated *August 23*, 1912.

Survey, Retracement, & Resurvey commenced *January 8*, 1913

Survey Retracement & Resurvey completed *January 21*, 1913

BOOK 2646

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Township 1 S., Range 1 W.

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South boundary of T.1 S., R.1 W.

Chains.

Survey commenced January 8, 1913, and executed with a Young & Sons light mountain transit No. 10 with a Smith 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. I examine the adjustments of the transit and find them correct and know from recent tests of the solar apparatus by comparing its indications, resulting from solar observations made during .a.m., and p.m. hours with a meridian determined by observations on Polaris, that the instrument is in satisfactory adjustment.

I begin at the cor. of Tps. 1 and 2 S., Rs. 1 E. and 1 W., which is an iron post 3 ins. in diam, firmly set in a mound of stone, marked on brass cap S 36 R. 1 W. in NW., S 31 T. 1 S. in NE. R 1 E. S 6 in SE. and T 2 S., S 1 in SW. quadrant., with 6 notches on N., E., S., and W. cardinal points., with a mound of stone 2 ft. base, 1 1/2 ft. high S. of cor. latitude 33° 17' 20" N., longitude 112° 18' 24" W.

At 8^h 06^m a.m., l.m.t. I set off 33° 17 1/2' N. on the lat. arc, 22° 13' S. on the decl. arc, and determine a meridian with the solar.

Thence I run West, on a random line, along the S. bdry. of T. 1 S., R. 1 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.

Note: At the temp. 1/4 sec. cor. bet. secs. 2 and 35, I set off 22° 13 1/2' S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 33° 17 1/2' N. on the lat. arc.

I discontinue the field work on this day at the temp. 1/4 sec. cor. bet. secs. 3 and 34.

January 8, 1913.

January 9¹⁹¹³ at 9^h 07^m a.m., l.m.t. I set off 33° 17 1/2' N. on the lat. arc 22° 05 1/2' S. on the decl. arc, and determine a meridian with the solar at the temp. 1/4 sec. cor. bet. secs. 3 and 34,

Thence I continue my ^{RANDOM} line, west, along the S. bdry. of T 1 S., R. 1 W. and at 438.66 chs.; intersect W. bdry of Tp. 18 lks. N. of the ^{OLD} cor. of Tps. 1 and 2 S., Rs. 1 and 2 W., which is a palo verde post, greatly decayed, marks nearly obliterated, witnessed as described by the Surveyor general.

The falling answers to a correction of 0° 01', or 03 lks. S. per mile, counting from the SE. cor. of the Tp.

The ^{OLD} cor. of Tps. 1 and 2 S., Rs. 1 and 2 W. being in a state of dilapidation, I destroy all traces of the old cor. and re-establish it at the same point as follows;

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 and 2 S., Rs. 1 and 2 W., marked on brass cap ¹⁹¹³ T 1 S. in N., R 1 W. in E., T 2 S. in S. and R 2 W. in W. half., S 36 in NW., S 31 in NE., S 6 in SE. and S 1 in SW. quadrant. Dig pits 24x24x12 ins. on line N., E., and W: 4 ft. and S. of post 8 ft. dist. and raise a mound of earth 5 ft. base 2 1/2 ft. high S. of cor.

The old bearing tree, described as a palo verde 3 ins. in diam. has died and fallen down. No other trees suitable for bearing trees within limits.

Thence I run, N. 89° 59' E., bet. secs. 6 and 31, marking and blazing true line. Over level sandy land, through scattering palo verde, mesquite, and ironwood timber and greasewood brush undergrowth 4 to 7 ft. high.

38.66 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31, and 32. marked on brass cap ¹⁹¹³ T 1 S. in N., T 2 S. in S. and R 1 W. in W. half. S 31 in NW. S 32 in NE. S 5 in SE. and S 6 in SW. quadrant. No trees suitable for bearing trees within limits. 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.

South boundary of T.1 S., R.1 W.

Chains.

Land level.
Soil sandy 1 st. and 2 nd. rate.
Timber palo verde, mesquite, and ironwood.

N. 89°59'E., bet. secs. 5 and 32,

Over level sandy land, through scattering palo verde, mesquite and ironwood timber and dense greasewood brush undergrowth 4 to 7 ft. high.

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 $\frac{193}{4}$ S 32 in N. half, and S 5 in S. half. from which

A palo verde 6 ins. in diam. bears S 8°E. 140 lks. dist., marked $\frac{1}{4}$ S. 5 BT. No other trees within the prescribed limits.

Dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32, and 33 marked on brass cap $\frac{193}{4}$ T 1 S. in N. T 2 S. in S., and R. 1 W. in W. half, S 32 in NW, S 33 in NE, S 4 in SE, and S 5 in SW. quadrant. from which,

A palo verde 8 ins. in diam. bears N. 4 $\frac{1}{2}$ °W. 170 lks. dist., marked T 1 S., R 1 W. S 32 BT. No other trees suitable for bearing trees within limits.

Dig pits 18x18x12 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, level.
Soil, sandy 1 st. and 2 nd. rate.
Timber, palo verde, mesquite, and ironwood.

Note: At this cor. I set off 22°05'S. on the decl. arc and at noon observe the sun on the meridian the resulting latitude being 33°17'N.

N. 89°59'E., bet. secs. 4 and 33,

Over level sandy and gravelly land, through scattering palo verde, mesquite and ironwood timber and dense greasewood brush undergrowth 6 ft. high.

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 $\frac{193}{4}$ S 33 in N. half, and S 4 in S. half. from which,

A palo verde, 12 ins. in diam., bears N. 85°W. 244 lks. dist., marked $\frac{1}{4}$ S. 33 BT.

A palo verde, 9 ins. in diam., bears S. 66 $\frac{1}{2}$ °W. 209 lks. dist., marked $\frac{1}{4}$ S. 4 BT.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33, and 34. marked on brass cap $\frac{193}{4}$ T 1 S. in N., T 2 S. in S., and R 1 W. in W. half, S 33 in NW, S 34 in NE, S 3 in SE, and S 4 in SW. quadrant. from which

An ironwood, 12 ins. in diam., bears N. 5 $\frac{1}{4}$ °E. 244 lks. dist., marked T 1 S., R 1 W. S 34 BT.

A palo verde, 9 ins. in diam., bears N. 11 $\frac{3}{4}$ °W. 245 lks. dist., marked T. 1 S., R 1 W. S 33 BT. No other trees within limits.

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Land, level.
Soil, sandy 1 st. and 2 nd. rate.
Timber, palo verde, mesquite and ironwood.

N. 89°59'E., bet. secs. 3 and 34.

Over rolling gravelly and stony land, slopes to the west, through scattering palo verde, mesquite, and ironwood timber and greasewood brush undergrowth 4 ft. high.

2.20 Dry sand wash, 80 lks. wide, course N. 65°W.

14.10 The same sand wash, 30 lks. wide, 6 ft. deep, course S. 60°W.

22.70 Leave valley, bears N. and S., Enter stony mountainous land, bears N. and S., ascend steep NW. slope of spur of the Estrella Mountains.

South boundary of T.1 S., R. 1 W.

- Chains.
- 37.60 Top of spur 300 ft. above the valley bears N 80°E. and S 80°W. thence along S. slope of spur.
 - 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 $\frac{1913}{4}$ S. 34 in N. half and S 3 in S. half.; Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft high N. of cor. No trees within limits Pits impracticable.
 - 62.60 Top of spur bears N 80°E. and S 80°W. thence along top of spur.
 - 78.80 Top of spur 800 ft. above the valley bears NE. and SW. desc. over cliffs
 - 80.00 The point for the cor. of secs. 2, 3, 34, and 35 falls on the face of cliff impossible of access; therefore at
 - 78.80 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to the cor. of secs. 2, 3, 34, and 35 marked on brass cap $\frac{1913}{4}$ T 1 S. in N., T 2 S. in S. and R 1 W. in W. half. S 34 in NW., S 35 in NE., S 2 in SE. and S 3 in SW. quadrant. WC N. of center. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. No trees within limits. Pits impracticable. Land rolling and mountainous. Soil gravelly and stony 2 nd., 3 rd., and 4 th. rate. Timber scatterin palo verde, mesquite and ironwood. Mountainous land 57.30 chs.

January 9, 1913.

January 10¹⁹¹³ At 8^h 37^m a.m., l.m.t. I set off 33°17 $\frac{1}{2}$ ' N. on the lat. arc, 21°56 $\frac{1}{2}$ ' S. on the decl. arc and determine a meridian with the solar at foot of cliffs 50 lks. N 89°59'E., of the true point for cor. of secs. 2, 3, 34 and 35,

- Thence I run, N 89°59'E. bet. secs. 2 and 35, from true point for cor. Descend SE. slope of spur over very rugged mountainous land, through greasewood brush undergrowth 3 ft. high.
- 2.50 Foot of descent in dry ravine 150 ft. below witness cor. course SE. ascend abrupt SW. slope over cliffs and fallen granite boulders.
- 16.20 Summit of spur of the Estrella range 1500 ft. above valley bears NW. and SE. desc. abruptly over NE. slope into canyon
- 39.00 Dry ravine 20 lks. wide in bottom of canyon 800 ft. deep course N 30°W. ascend abrupt NW. slope.
- 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 $\frac{1913}{4}$ S 35 in N. half, and S 2 in S. half. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
- 43.90 Dry ravine 15 lks. wide course NW. asc.
- 64.80 Top of spur 300 ft. above ravine bears N 60°E. and S 60°W. thence along S. face of mountain peak ascending.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35, and 36. marked on brass cap $\frac{1913}{4}$ T 1 S. in N., T 2 S. in S., and R. 1 W. in W. half. S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quadrant. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land mountainous. Soil stony 4 th. rate. No timber.

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- N. 89°59'E., bet. secs. 1 and 36. Ascend over steep S. slope of mountain peak, over fallen boulders, through greasewood brush undergrowth 4 ft. high.
 - 1.20 Top of spur, bears N. and S. desc. E. slope
 - 15.50 Summit of the Estrella Range of Mountains, elevation 2000 ft. bears N 65°W. and S 65°E. descend abruptly over NE. slope.
 - 35.00 Foot of descent on N. slope of ridge bears NW. and NE. asc.
 - 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the

South boundary of T.1 S., R 1 W.

Chains.

- ground for $\frac{1}{4}$ sec. cor., marked on brass cap ^{1913;} S 36 in N. half and S 1 in S. half.
- Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- Pits impracticable.
- 49.10 Top of spur bears NE. and SW. desc. very abruptly over SE. slope.
- 75.50 Foot of descent in dry ravine 750 ft. below top of spur course NE. asc.
- 80.00 intersect the cor. of Tps. 1 and 2 S., Rs. 1 E. and 1 W., hereinbefore described.
- Land mountainous.
- Soil stony 4 th. rate.
- No timber.

Note: Clouds obscure the sun at noon today rendering an observation for latitude impossible.

January 10, 1913.

Retracement and Resurvey of W. bdry. of T 1 S., R. 1 W.

Chains.

Retracement and Resurvey commenced January 19, 1913 and executed with a Young and Sons light mountain transit No. 10 with a Smith 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. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m., and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows;

At the stake which marks the southern end of the meridian which I established by Polaris observations December 21, 1912 at my camp in sec. 3 T 1 S., R. 1 W. latitude $33^{\circ}22'33''$ N longitude $112^{\circ}21'36''$ W., I set off $33^{\circ}22\frac{1}{2}'$ N. on the lat. arc, $20^{\circ}20'$ S. on the decl. arc and at $3^h 41^m$ a.m., l.m.t. determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 chs N. of my instrument. This point falls 0.4 ins. west of the meridian determined by the Polaris observation.

At $3^h 10^m$ p.m., l.m.t. I set off $33^{\circ}22\frac{1}{2}'$ N. on the lat. arc, $20^{\circ}17'$ S. on the decl. arc and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 chs. N. of my instrument. This point falls 0.2 ins. east of the meridian determined by the Polaris observation.

The solar apparatus by a.m., and p.m. observations defines positions for meridians respectively about $0'21''$ West and $0'10''$ East of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

All measurements were made with a 5.00 chain steel tape with a Clinometer for determining the slope angles.

I begin at the cor. of Tps. 1 and 2 S., Rs. 1 and 2 W. which I re-established January 9, 1913 ^{as hereinbefore described} latitude $33^{\circ}17'20''$ N., longitude $112^{\circ}24'37''$ W.

January 19, 1913.

January 20¹⁹¹³ At $9^h 11^m$ a.m., l.m.t. I set off $33^{\circ}17\frac{1}{2}'$ N. on the lat. arc, $20^{\circ}07'$ S. on the decl. arc and determine a meridian with the solar at the above mentioned cor.

Thence I run

North, on a random line; bet. secs. 31 and 36.

40.02 Fall $2\frac{1}{2}$ lks. W. of the old $\frac{1}{4}$ sec. cor., which is a palo verde stake 2 ins. sq., decayed off at the surface of the ground, with trace of pits and mound.

True course & dist. of this $\frac{1}{2}$ mile is therefore S. $0^{\circ}02'$ W., 40.02 chs.From above described old $\frac{1}{4}$ sec. cor. I run North on random line bet. secs. 31 & 36, $\frac{1}{2}$ mile.

40.02 Fall 16 lks. W. of the old cor. of secs. 25, 30, 31, and 36, which is a palo verde post, 4 ins. sq., 24 ins. above ground, greatly decayed and marks nearly obliterated; no signs of pits or mound. True course & dist. of this $\frac{1}{2}$ mile is therefore S. $0^{\circ}14'$ W., 40.02 chs.

The old cor. of secs. 25, 30, 31, and 36, being in a state of dilapidation, I destroy all traces of the old cor. and re-establish it at the same point as follows:

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31, and 36., marked on brass cap T 1 S. in N. half. R 2 W., S 25 in NW. R 1 W., S 30 in NE. S 31 in SE., and S 36 in SW. quadrant.

Dig pits $18 \times 18 \times 12$ 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.

Thence I run

S. $0^{\circ}14'$ W., on a true line, bet. secs. 31 and 36.

Over level sandy land through scattering palo verde timber and greasewood brush undergrowth 4 ft. high.

21.47 Old road to mine bears NW. and SE.

25.77 Old road to Phoenix Arizona bears NE. and SW.

40.02 Intersect the old $\frac{1}{4}$ sec. cor. This cor. being in a dilapidated condition, I destroy all trace of the old cor. and

Retracement and Resurvey of the W. bdry. of T.1 S., R.1 W

Chains re-establish it at the same point, as follows:
 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 ¹⁹³¹ S 36 in W. half, and S 31 in E. 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.
 No trees suitable for bearing trees available.
 Thence I run **continuing measurement**,
 S. $0^{\circ}02'$ W., on true line bet. secs. 31 & 36, $5\frac{1}{2}$ mile, over slightly rolling sandy land.
 80.04 Intersect the cor. of Tps. 1 and 2 S., Rs. 1 and 2 W., hereinbefore described.
 Land, rolling, and level.
 Soil, sandy 1 st. and 2 nd. rate.
 Timber, scattering palo verde.
 Undergrowth, greasewood.

North, on a random line, bet. secs. 25 and 30.
 40.00 I make a diligent search for the ^{old} $\frac{1}{4}$ sec. cor. which I fail to find, therefore I continue my ^{RANDOM} line north and at
 79.96 Fall 8 lks. E. of the old cor. of secs. 19, 24, 25, and 30., which is a mesquite post 4 ins. in diam. decayed off at the surface of the ground, with marks nearly obliterated, with remains of mound covering decayed end of post.
 From cor. a palo verde 8 ins. in diam. bears N. $81^{\circ}W$, 162 lks. dist., marked T 1 S. R 1 BT. other marks decayed away.
 True course & dist. of this mile is therefore S. $0^{\circ}03'$ E., 79.96 chs., and 30. 3 2903' E.
 This cor. being in a state of dilapidation, I destroy all trace of the old cor. and re-establish it in the same place as follows: set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25, and 30., marked on brass cap T 1 S. in N. half., R 2 W., S 24 in NW., R 1 W., S 19 in NE., S 30 in SE. and S 25 in SW. quadrant., from which
 A palo verde, 16 ins. in diam. bears N. $70^{\circ}E$. 190 lks., marked T 1 S., R 1 W. S 19 BT.
 A palo verde, 15 ins. in diam. bears S. $41\frac{3}{4}^{\circ}E$. 267 lks. dist., marked T 1 S., R 1 W. S 30 BT.
 A palo verde, 14 ins. in diam. bears S. $31\frac{3}{4}^{\circ}W$. 213 lks. dist., marked T 1 S., R 2 W., S 25 BT.
 A palo verde, 16 ins. in diam. bears N. $79\frac{3}{4}^{\circ}W$. 162 lks. dist., marked T 1 S., R 2 W. S 24 BT. and the old bearing tree
 A palo verde, 8 ins. in diam. bears N. $81^{\circ}W$. 162 lks. dist., marked T 1 S., R 1 W. BT.

Thence I run
 S. $0^{\circ}03'$ E., on a true line, bet. secs. 25 and 30.
 Over nearly level sandy land, through scattering palo verde and mesquite timber and greasewood brush undergrowth 3 to 5 ft. high.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ^{REESTAB} $\frac{1}{4}$ sec. cor. marked on brass cap ¹⁹³¹ S 25 in W. half and S 30 in E. 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.
 No trees suitable for bearing trees within limits.
 79.96 Intersect the ^{REESTAB} cor. of secs. 25, 30, 31, and 36, hereinbefore described.
 Land level and rolling.
 Soil sandy 1 st. and 2 nd. rate.
 Timber palo verde and mesquite.

North, on a random line, bet. secs. 19 and 24.
 40.00 I make a diligent search for the ^{old} $\frac{1}{4}$ sec. cor. which I fail to find, therefore I continue my line north and at
 80.36 Fall 3 lks. E. of the old cor. of secs. 13, 18, 19, and 24., which is a granite stone 28x12x4 ins. loosely set, marked with 3 notches on N. and S. edges, from which
 A palo verde, 7 ins. in diam. bears N. $71\frac{1}{2}^{\circ}E$. 36 lks. dist., marked T 1 S., R 1 W. BT.
 True course & dist. of this mile is therefore S. $0^{\circ}01'$ E., 80.36 chs., and 30. 3 2901' E.

Retracement and Resurvey of the W. bdry. of T.1 S., R.1 W.

- Chains. This cor. being in a dilapidated condition I re-establish it in its original position as follows; Set the same stone 20 ins. in the ground for cor. of secs. 13, 18, 19, and 24. from which the old bearing tree
- A palo verde, 7 ins. in diam. bears N. $71\frac{1}{2}^{\circ}$ E. 36 lks. dist., marked T 1 S., R 1 W. S 13 BT.
 - A palo verde, 8 ins. in diam. bears S. 66° E. 95 lks. dist., marked T 1 S., R. 1 W. S 19 BT.
 - A palo verde, 4 ins. in diam. bears S. $34\frac{1}{2}^{\circ}$ W 116 lks. dist., marked T 1 S., R 2 W. S 24 BT.
 - A palo verde, 5 ins. in diam., bears N. 30° W., 87 lks. dist., marked T 1 S., R 2 W. S 13 BT.
- I re-construct the old mound of stone W. of cor.
Thence I run
S. $0^{\circ} 01'$ E., on a true line, bet. secs. 19 and 24.
Descend S. slope over stony hilly land through scattering palo verde timber and greasewood brush undergrowth 3 ft. high.
- 32.25 Foot of descent in dry sand wash 50 lks. wide 4 ft. deep course N 60° W.
 - 33.25 Enter level sandy land and dense greasewood brush undergrowth 5 ft. high.
 - 40.18 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ^{REESTAB.} sec. cor. marked on brass cap ¹⁹¹³ S 24 in W. half and S 19 in E. half. No trees suitable for bearing trees available.
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.
 - 80.56 Intersect the ^{REESTAB.} cor. of secs. 19, 24, 25, and 30, hereinbefore described.
Land level and hilly.
Soil sandy and stony 1 st., 2 nd., 3 rd. rate.
Timber palo verde.
-
- North, on a random line, bet. secs. 13 and 18.
- 39.64 Fall 5 lks. W. of the old $\frac{1}{4}$ sec. cor., which is a granite stone 12x12x8 ins. loosely set, marked $\frac{1}{4}$ on W. face., with remains of mound of stone N. of cor.
True course & dist. of this $\frac{1}{2}$ mile is therefore S. $0^{\circ} 04'$ W., 39.64 chs., and S. $0^{\circ} 04'$ W.
- I begin at the $\frac{1}{4}$ sec. cor. and continue north on a random line, bet. secs. 13 and 18.,
- 39.98 Fall 8 lks. E. of the old cor. of secs. 7, 12, 13, and 18., which is a granite stone 12x8x7 ins. loosely set, marks nearly obliterated, with no trace of mound of stone or other corner accessories.
True course & dist. of this $\frac{1}{2}$ mile is therefore S. $0^{\circ} 07'$ E., 39.98 chs.
- This cor. being in a state of dilapidation, I destroy all evidence of the old cor., and re-establish it in the same place as follows; Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13, and 18., marked on brass cap ¹⁹¹³ T 1 S., in N. half., R 2 W., S 12 in NW., R 1 W. S 7 in NE., S 13 in SE. and S 13 in SW. quadrant, from which,
- A palo verde, 7 ins. in diam. bears N. $36\frac{1}{2}^{\circ}$ E., 81 lks. dist., marked T 1 S., R 1 W. S 7 BT.
 - A palo verde, 8 ins. in diam. bears S. $54\frac{1}{2}^{\circ}$ W., 50 lks. dist., marked T 1 S., R 2 W. S 13 BT. No other trees within the prescribed limits.
- Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., Pits impracticable.
Thence I run
S. $0^{\circ} 07'$ E., on a true line, bet. secs. 13 and 18..
Ascend very abrupt rocky N. slope of mountain, through scattering palo verde timber and greasewood brush.
- 9.00 Summit of mountain 350 ft. above cor. bears E. and W. desc. abruptly over S. slope.
 - 19.25 Dry ravine 25 lks. wide course SE. asc. spur.
 - 33.75 Top of spur bears N 60° W. and S 60° E. desc. abruptly.
 - 39.00 Dry ravine 30 lks. wide course SW. asc.
 - 39.98 Intersect the old $\frac{1}{4}$ sec. cor. This cor. being in a dilapidated

Retracement and Resurvey of the W. bdry. of T.1 S., R 1 W.

Chains

condition, I re-establish it in the same place as follows;
Set the same stone 12 ins. in the ground for $\frac{1}{4}$ sec. cor.,
marked $\frac{1}{4}$ on W. face
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
No trees suitable for bearing trees within limits.
Pits impracticable.

January 20, 1913.

Note: Clouds obscure the sun at noon on Jan. 20 rendering
an observation for latitude impossible.

January 21, 1913, At 3^h 11^m a.m., l.m.t. I set off $33^{\circ}20'$ N. on
the lat. arc, $19^{\circ}53\frac{1}{2}'$ S. on the decl. arc and determine
a meridian with the solar at the ^{REESTAB} $\frac{1}{4}$ sec. cor. bet.
secs. 13 and 18, above described,

Thence I run, continuing measurement.

S. $0^{\circ}04'$ W., on a true line, bet. secs. 13 and 18, $\frac{1}{2}$ mile
43.60 Top of spur bears NW. and SE. desc.
48.35 Dry ravine 15 lks. wide course NW. asc.
53.70 Top of spur 500 ft. above $\frac{1}{4}$ sec. cor. bears E. and W. desc.
79.62 Intersect the ^{REESTAB} cor. of secs. 13, 18, 19, and 24, hereinbefore described.
Land mountainous.
Soil stony 3 rd. and 4 th. rate.
Timber palo verde.

North, on a random line, bet. secs. 7 and 12
40.00 I make a diligent search for the $\frac{1}{4}$ sec. cor., which I am
unable to find, therefore I continue my line north and at
80.06 Fall 38 lks. W. of the ^{REESTAB} cor. of secs. 1, 6, 7, and 12., which is a
granite stone 8x9x4 ins. loosely set, with marks nearly
obliterated, with scattering stones along side.
True course & dist. of this ride is therefore S. $0^{\circ}3'$ W. 780.06 chs. and 18.

This corner being in a dilapidated condition, I destroy all
trace of the old cor. and re-establish it in the same
place as follows; Set an iron post 3 ft. long, 3 ins. in
diam. ^{24 ins. in the ground} for cor. of secs. 1, 6, 7, and 12., marked on brass cap
1913; T 1 S. in N. half. R 2 W., S 1 in NW., R 1 W., S 6 in NE.,
S 7 in SE., and S 12 in SW. quadrant., from which
An ironwood, 12 ins. in diam. bears N. $44\frac{3}{4}^{\circ}$ E., 153 lks. dist.,
marked T 1 S., R 1 W. S 6 BT.
A palo verde, 8 ins. in diam. bears S. $8\frac{3}{4}^{\circ}$ E., 103 lks. dist.,
marked T 1 S., R 1 W. S 7 BT. No other trees within
limits. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high
W. of cor. Pits impracticable.

Thence I run,
S. $0^{\circ}03'$ W., on a true line, bet. secs. 7 and 12.
Over rolling stony valley land, through scattering palo verde
and ironwood timber and greasewood brush undergrowth.
.1.16 Dry ravine 15 lks. wide, 6 ft. deep course NE.
13.06 Old wood road bears NW. and SE.
15.85 Dry ravine 10 lks. wide 6 ft. deep course NW.
23.96 Dry ravine 20 lks. wide 6 ft. deep course NW.
34.95 Leave rolling valley land bears E. and W. Enter mountainous
land, ascend N. slope of spur.
40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the
ground for ^{REESTAB} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S 12 in W.
half and S. 7 in E. half., from which
A palo verde, 4 ins. in diam. bears N. 27° E., 73 lks. dist., marked
 $\frac{1}{4}$ S. 7 BT. and
A palo verde, 5 ins. in diam. bears S. $57\frac{1}{2}^{\circ}$ W., 10 lks. dist. marked
 $\frac{1}{4}$ S 12 BT.
45.35 Top of spur 75 ft. above cor. bears E. and W. desc. S. slope
51.70 Dry ravine 20 lks. wide course SW. asc.
53.70 Top of spur bears E. and W. desc.
64.40 Dry ravine 35 lks. wide course N 60° W. asc.
80.06 Intersect the ^{REESTAB} cor. of secs. 7, 12, 13, and 18, hereinbefore described.
Land rolling and mountainous.
Soil gravelly and stony 3 rd. and 4 th. rate.

Retracement and Resurvey of the W. bdrv. of T 1 S., R 1 W.

Chains Timber palo verde and ironwood
Mountainous land 34.95 chs.

North, on a random line, bet. secs. 1 and 6.

40.00 I make a diligent search for the $\frac{1}{4}$ sec. cor., which I fail to find; therefore I continue my line north and at 81.04 Intersect the Gila and Salt River Base Line, 40 lks. S. $89^{\circ}36'$ W. of the standard $\frac{1}{4}$ sec. cor. on the S. bdrv. of T 1 N., R 1 W., where I make a very careful search for the old closing cor. of Tps. 1 S., Rs. 1 and 2 W. which I fail to find, and since no trace of a cor. can be found at a point 2.73 chs. East of the standard cor. of Tps. 1 N., Rs. 1 and 2 W., the position of the closing cor. of Tps. 1 S., Rs. 1 and 2 W. as given in the old field notes of the survey of the E. bdrv. of T 1 S., R 2 W. and the location of the E. bdrv. of T 1 S., R 2 W. as marked by the old corners on the ground failing to agree with the position of the old Tp. closing cor., by approximately 40.00 chs. I return to the ^{REESTAB.} cor. of secs. 1, 6, 7, and 12, ^{hereinbefore} described and resurvey the line bet. secs. 1 and 6 as follows;

North, on a true line, bet. secs. 1 and 6
Over rolling valley land through scattering palo verde, and ironwood timber and greasewood brush undergrowth $3\frac{1}{2}$ ft high.

- 9.55 Dry ravine, 15 lks. wide, 6 ft. deep, course NW.
- 27.70 Dry ravine, 20 lks. wide, 5 ft. deep, course NW.
- 32.60 Dry ravine, 15 lks. wide, 6 ft. deep, course N 20° W.
- 38.95 Wood road bears E. and W.
- 40.20 ^{BY PROPORTIONATE MEASUREMENT & LOCATE POSITION FOR $\frac{1}{4}$ SEC. COR. AT} Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ^{REESTAB.} $\frac{1}{4}$ sec. cor., marked on brass cap ^{1913:} $\frac{1}{4}$ S 1 in W. half and S 6 in E. half., from which
 - A palo verde 8 ins. in diam. bears N $87\frac{3}{4}^{\circ}$ W., 125 lks. dist., marked $\frac{1}{4}$ S 1 BT. and
 - A palo verde 9 ins. in diam. bears S $34\frac{1}{2}^{\circ}$ E., 23 lks. dist., marked $\frac{1}{4}$ S 6 BT.
- 43.00 Dry ravine, 25 lks. wide, 10 ft. deep, course N 20° E.
- 66.35 Road to James H. Kennedys cabin, bears E. and W.
- 67.10 Dry ravine, 15 lks. wide, 3 ft. deep, course east.
- 75.30 Enter dry ravine, 15 lks. wide, course SE.
- 77.80 Leave ravine, comes from the NW., ascend gently over SW. slope.

81.04 Intersect the Gila and Salt River Base Line 40 lks. S $89^{\circ}36'$ W. of the standard $\frac{1}{4}$ sec. cor. on the S. bdrv. of T 1 N., R 1 W. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for ^{REESTAB.} closing cor. of Tps. 1 S., Rs. 1 and 2 W., marked on brass cap ^{1913:} CC S. of center. T 1 N. R. 1 W., S 31, R. 2 W., S 36 in N. half and T 1 S. half. R 1 E., S 6 in SE. and R 2 W., S 1 in SW. quadrant., from which

- A palo verde, 8 ins. in diam. bears S. $50\frac{1}{4}^{\circ}$ E., 171 lks. dist., marked T 1 S., R 1 W., S 6 BT. and
- A palo verde, 5 ins. in diam. bears S. 38° W., 83 lks. dist., marked T 1 S., R 2 W., S 1 BT.

Land rolling.
Soil gravelly and stony 2 nd. and 3 rd. rate.
Timber palo verde and ironwood.

Note: At the ^{REESTAB.} cor. of secs. 1, 6, 7, and 12, ^{hereinbefore described} I set $19^{\circ}53'$ S. on the decl. arc and at noon observe the sun on the meridian the resulting latitude being $33^{\circ}22'$ N.

January 21, 1913.

Boundaries of Township 1 South Range 1 West
 Latitudes Departures and closing errors.

Line Designation	True Bearing	Distance	Latitudes		Departures	
			N	S	E.	W
South boundary	S. 89°59'W.	438.66		.18		438.66
West boundary	N0°02'E.	40.02	40.02		.02	
	N0°14'E.	40.02	40.02		.16	
	N0°03'W.	79.96	79.96			.08
	N0°01'W.	80.36	80.36			.03
	N0°04'E.	39.64	39.64		.05	
	N0°04'W.	39.98	39.98			.58
	N0°03'E	80.06	80.06		.08	
	North	81.04	81.04			
North boundary	N89°36'E.	.40	.00		.40	
	N89°54'E.	39.68	.07		39.68	
	S 89°57'E.	39.70		.03	39.70	
	S 89°52'E.	78.68		.18	78.68	
	S 89°51'E.	59.36		.00	59.36	
	N 89°53'E.	39.99	.08		39.99	
	S 89°45'E.	80.00		.35	80.00	
	S 89°32'E.	159.68		1.30	159.68	
East boundary	S0°14'W.	40.06		40.06		.16
	S0°09'E.	39.94		39.94	.10	
	South	80.02		80.02		
	S 0°08'W.	39.98		39.98		.09
	S0°24'E.	40.14		40.14	.31	.31
	South	40.00		40.00		
	S0°01'W.	39.81		39.81		.01
	S0°01'E	39.86		39.86	.01	
	S0°02'W.	40.02		40.02		.02
	S0°07'E.	40.10		40.10	.08	
	S0°24'W	39.82		39.82	.00	.28
	S0°03'W.	40.16		40.16		.04
Convergency				.46		
			481.23	481.95	439.40	439.40
				481.23		439.40
			Error in lat.	.72	Error in Dep.	.05

General Description.

This township is rough and mountainous in the eastern and northwestern part rolling in the northern and southwestern part which is mostly prairie land. The township is poorly watered and has but little timber of a commercial value.

Widney & Blount
 U.S. Surveyor.

FOR FINAL OATH OF UNITED STATES SURVEYOR.
See Book "0" Group 20

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 _____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191 _____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, July 27 _____, 1914

The foregoing field notes of the survey of the South Boundary and Retracement and Resurvey of the West Boundary of Township No. 1 South Range No 1 West of the Gila and Salt River Base and Meridian Arizona

executed by Sidney E. Blout U.S. Surveyor under Supplemental Special Instructions for Group 19 dated October 12, _____, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys they describe, are hereby approved.

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

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