

3034

G.L.O. letter "E"
April, 1919.

Book "A."

4-679

(Subdivisions)

BOOK 3034

FIELD NOTES

OF THE SURVEY OF THE

3034

SUBDIVISION LINES OF A

PORTION OF TOWNSHIP 13 NORTH, RANGE 12 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Otis Ross, U. S. Surveyor, and

A. Parker Warner, U.S. Transitman,

3034

~~In the capacity of U. S. Surveyor~~, under instructions dated February 20, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 49, which were approved by the Commissioner of the General Land
Office, March 1, 1915.

Survey commenced December 16, 1915.

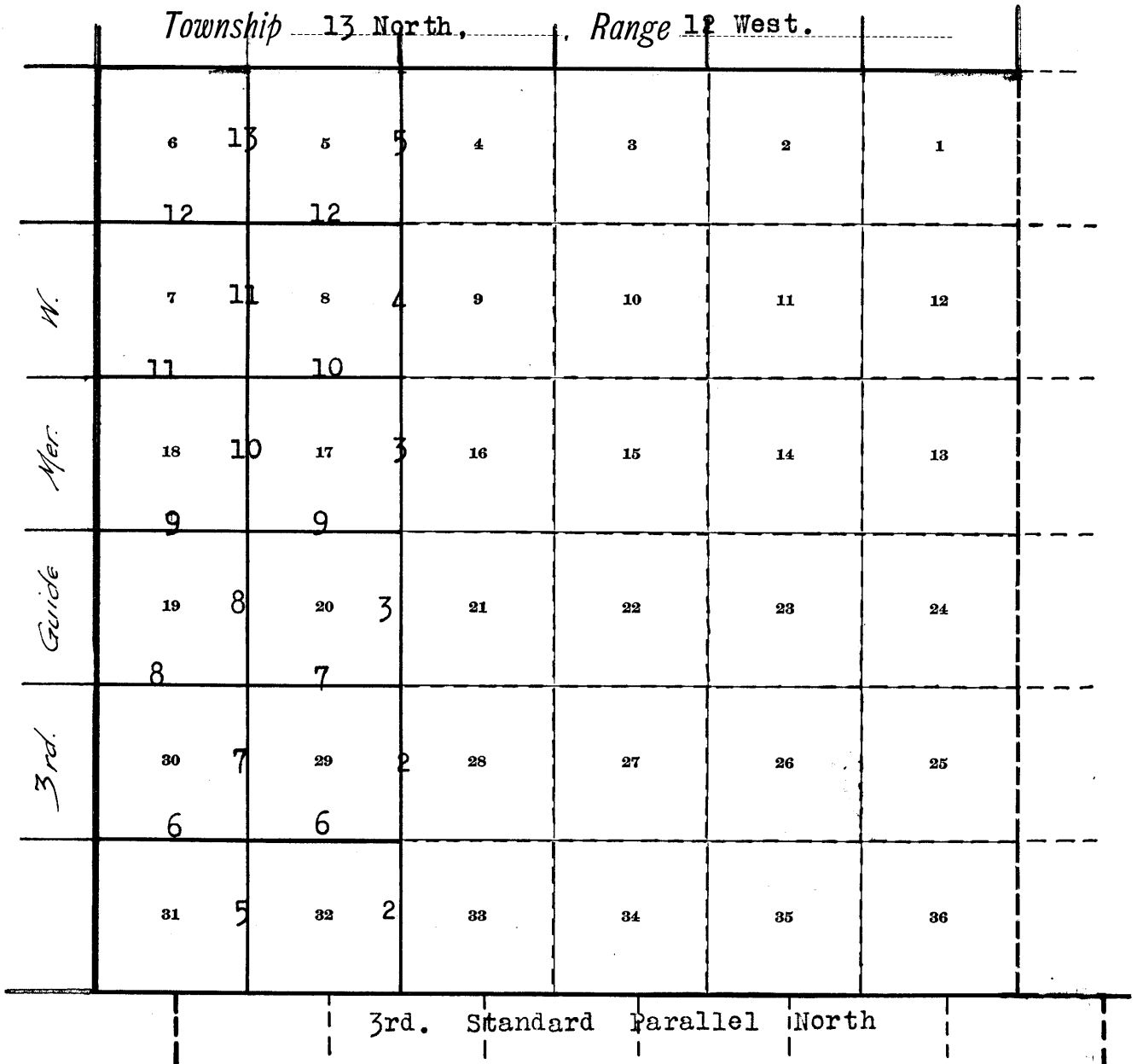
Survey completed December 22, 1915.

1A

Book "A."
Group 49 - - Arizona.

BOOK 8034

INDEX DIAGRAM.



6-151

- Surveyed under this Group. Notes in this book.
- Surveyed under this Group. Notes in book "B".
- ==== Resurveyed under Group 41.
- ==== Surveyed under Group 41.
- ==== Accepted surveys.
- ==== Surveyed under Group 42.
- Unsurveyed.

Survey executed jointly by Otis Ross, U. S. Surveyor, and A. Parker Warner, U. S. Transitman, using Young and Sons' light mountain transits numbers 6856 and 8526, respectively; both instruments being equipped with Smith solar attachments. The horizontal limbs are provided with two double verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The dates of survey are shown on page 15 hereof.

The instruments were approved, subject to satisfactory field tests, by the assistant supervisor of surveys, on November 29, 1915.

OBSERVATION ON POLARIS AT WESTERN ELONGATION.

Observer, Otis Ross.
Latitude, $34^{\circ}30\frac{1}{2}'$ N.
Longitude, $113^{\circ}31'$ W.
Date, Dec. 7, 1915.

At my camp, near the S. bdy. of sec. 34, in T. 14 N., R. 13 W., at 2h 26.0m, a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg 5 chs. N. of my station.

At 7h 30m. a.m., I lay off the azimuth of Polaris $1^{\circ}23'$ to the E., and mark the meridian thus determined by a tack driven in a wooden peg, E. of the elongation point above described.

TESTS OF INSTRUMENTS.

Dec. 7, 1915.

We examine the adjustments of the instruments, and correct the level and collimation errors; then, to test the solar apparatus, by comparing the indications, resulting from solar observations made during a.m. and p.m. hours, with the meridian determined by observation on Polaris, we proceed as follows:

At 8h 00m, a.m., l.m.t.,

With both instruments set up in the meridian established, as above described, by observation on Polaris, we set off $34^{\circ}30\frac{1}{2}'$ on the latitude arcs, and $22^{\circ}29'S.$ on the decl. arcs, and determine meridians with the solars; which are identical with that established by the Polaris observation.

At apparent noon, at the above station, we set off $22^{\circ}32\frac{1}{2}'S.$ on the decl. arcs, and observe the sun on the meridian. The reading on both latitude arcs is $34^{\circ}30\frac{1}{2}'$, which is the true latitude.

At 4h 00m. p.m., l.m.t., we set off $22^{\circ}31'S.$ on the decl. arcs, and $34^{\circ}30\frac{1}{2}'$ on the lat. arcs., and determine meridians with the solars, which are practically identical with the results previously secured.

The solar apparatus of each transit, by a.m. and p.m. observations, defines positions for the meridian practically identical with that determined by the Polaris observation: therefore we conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian, at 8h 30m, a.m., l.m.t., is $N.17^{\circ}W.$; the angle thus determined gives the mag. decl. $17^{\circ}E.$

Chains

I begin at the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., on 3rd St. Par. N., which is an iron post, 3 ins. diam., with brass cap, properly marked, set and witnessed as described by the surveyor general.

24.50 Thence N.0°02'W., bet. secs. 32 and 33, over mountainous land, through scattering undergrowth. Wash, 50 lks. wide, course SW.; thence over rocky SE. side of mesa.

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

$\frac{1}{4}$
S32 | S33
1915

80.00 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, with brass cap, marked

T13N | R12W
S29 | S28

S32 | S33
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, catclaw, greasewood, and cactus.
Poor grass.

6.00 N.0°02'W., bet. secs. 28 and 29, over mountainous land, through scattering undergrowth. Edge of mesa; desc. 240 ft. to

20.00 Wash, 50 lks. wide, course SW.

20.50 Top of spur sloping W.; desc. 75 ft. to

22.85 Wash, 50 lks. wide, course SW.; asc. on broken rocky SE. slope.

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

$\frac{1}{4}$
S29 | S28
1915

65.25 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Ridge, 520 ft. above wash, bears NE. and SW.; desc. 180 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, with brass cap, marked

T13N | R12W
S20 | S21

S29 | S28
1915

Subdivision of Portion of T. 13 N., R. 12 W.

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, broken and mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, palo-verde, ocotillo, catclaw, greasewood
and cactus.

Poor grass.

N.0°02'W., bet. secs. 20 and 21,
over mountainous land, through scattering undergrowth.

Asc. 50 ft. to

4.40

Spur sloping NW.; desc. 260 ft. to

14.20

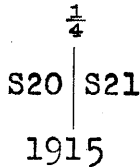
Wash, 50 lks. wide, course SW.; asc. 220 ft. to

22.00

Spur extends W.; desc. gradually.

40.00

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



and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

57.20

Center of wash, 5 chs. wide, 150 ft. below spur; course W.

63.65

Top of low spur sloping NW.

71.00

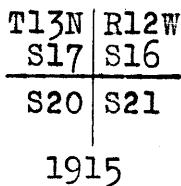
Wash, 50 lks. wide, course NW.

79.85

Wash, course NW.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 16, 17, 20 and 21, with brass
cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, broken and mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, palo-verde, ocotillo, catclaw, greasewood
and cactus.

Grass, scanty.

N.0°02'W., bet. secs. 16 and 17,
over mountainous land, through scattering undergrowth.

3.60

Wash, 55 lks. wide, course NW.

14.80

Wash, 100 lks. wide, course W.; asc. 120 ft. to

31.50

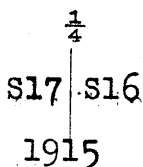
Spur sloping W.; desc. 70 ft. to

36.50

Wash, 60 lks. wide, course W.; asc. S. slope.

40.00

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



Subdivision of Portion of T. 13 N., R. 12 W.

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

41.20 Top of spur sloping W.; desc. 230 ft. to
54.85 Bottom of ravine, course W.; asc. 130 ft. to
58.35 N. edge of ravine bearing E. and W.
75.65 Wash, 3 chs. wide, course SW.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 8, 9, 16 and 17, with brass cap,
marked

T13N	R12W
S 8	S 9
S17	S16

1915

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, broken and mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, catclaw, greasewood
and cactus; some cedar and soap-weed.
Grass, poor.

N.0°02'W., bet. secs. 8 and 9,
over mountainous land, through scattering undergrowth.

.90 Wash, 60 lks. wide, course SW.; asc. 140 ft. to
10.10 Spur sloping SW.; desc. 50 ft. to
18.10 Draw, course SW.; asc. 110 ft. to
28.00 Spur sloping W.; desc. 200 ft. on N. slope to
39.65 Enter wash, course NW.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for ¼ sec. cor., with brass cap, marked

¼
S8 S9

1915

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

41.15 Phoenix-Hillside-Kingman road bears E. and W.
41.35 Leave wash.
41.65 Spur, sloping W.
42.60 Center of wash, 150 lks. wide, course W.; asc. 360 ft. to
67.40 Spur, sloping NW.; desc. 135 ft. to
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 4, 5, 8 and 9, with brass cap,
marked

T13N	R12W
S5	S4
S8	S9

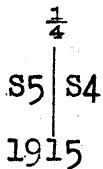
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, catclaw, greasewood,
cactus and crucifixion-thorn.
Grass, poor.

Chains

40.00 N.0°02'W., on a random line, bet. secs. 4 and 5.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.50 Intersect N. bdy. of Tp. 6 lks. E. of the cor. of secs.
 4, 5, 32 and 33, described in Book B.
 Thence S.0°05'E., on a true line, bet. secs. 4 and 5,
 over mountainous land, through scattering undergrowth.
 Asc. 60 ft. on broken NW. slope to
 5.00 Spur sloping NE.
 17.05 Center of sandy wash, 2 chs. wide, course NW.; asc. 80 ft.
 to
 28.75 N. edge of rocky ravine, course NW.; desc. 25 ft. to
 29.70 Bottom of ravine; asc. 220 ft. to
 39.30 Spur sloping W.
 39.50 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



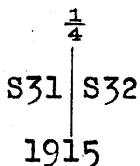
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Asc. 190 ft. to
 53.30 Spur sloping W.; desc. 225 ft. to
 71.65 Draw, course NW; 50 lks. wide and 15 ft. deep.
 Asc. 175 ft. to
 79.50 The cor. of secs. 4, 5, 8 and 9.

Land, mountainous.
 Soil, 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood,
 crucifixion-thorn and cactus.
 Grass, poor.

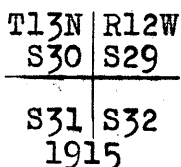
From the standard cor. of secs. 31 and 32, on S. bdy. of Tp.,
 on the 3rd St. Par. N., which is an iron post, 3 ins. diam.,
 with brass cap, marked, set and witnessed as described
 by the surveyor general;

Thence N.0°03'W., bet. secs. 31 and 32,
 over mountainous land, through scattering undergrowth.
 Desc. 50 ft. to

1.90 Wash, 50 lks. wide, course SE.; asc. 750 ft. to
 37.00 S. edge of mesa bears E. and W.; thence across level, rocky
 top of same.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 29, 30, 31 and 32, with brass
 cap, marked



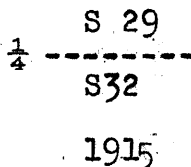
Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, greasewood, catclaw and cactus.
Grass, poor.

40.00 East, on a random line, bet. secs. 29 and 32.
Set temp. ¼ sec. cor.
80.00 Intersect N. and S. line 10 lks. S. of the cor. of secs. 28, 29, 32 and 33.

Thence S.89°56'W., on a true line, bet. secs. 29 and 32, over mountainous land, through scattering undergrowth. Asc. 80 ft. over rocky NE. slope to
13.50 Spur sloping SW.; desc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked

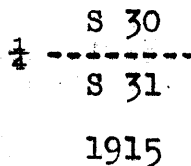


and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
44.77 Wash, 500 ft. below spur; course SW.; width, 50 lks. Asc. 250 ft. to
62.00 Summit. Thence over mesa.
80.00 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, catclaw, greasewood, crucifixion thorn, and cactus.
Grass, poor.

40.00 West, on a random line, bet. secs. 30 and 31.
Set temp. ¼ sec. cor.
79.74 Intersect W. bdy. of Tp., 36 lks. N. of the cor. of secs. 25, 30, 31 and 36, on 3rd G. M. W.; which is an iron post, 3 ins. diam., with brass cap, marked, set and witnessed, reestablished under current Group No. 41.

Thence N.89°45'E., on a true line, bet. secs. 30 and 31, over mountainous land, through scattering undergrowth. Asc. 365 ft. to
15.65 Spur, sloping SW.; desc. 65 ft. to
29.90 Government Wash, 100 lks. wide, course SE.; asc. 60 ft. to
39.74 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked



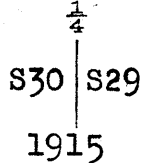
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
54.00 Desc. 165 ft. to

Chains

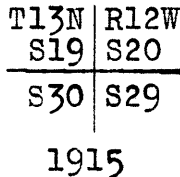
58.36 Bottom of ravine, course SW.; asc. 125 ft. to
 64.75 N. edge of ravine; thence over mesa.
 79.74 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood
 and cactus.
 Grass, poor.

15.00 N.0°03'W., bet. secs. 29 and 30,
 over mountainous land, through scattering undergrowth.
 24.00 Top of round knoll.
 40.00 Spur extends SW.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



40.50 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Wash, 60 lks. wide, course SW.; asc. 300 ft. on SE. slope
 to
 54.25 Summit.
 64.25 Spur sloping SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 19, 20, 29 and 30, with brass
 cap, marked

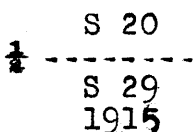


and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood
 and cactus.
 Grass, poor.

40.00 East, on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.78 Intersect N. and S. line 12 lks. S. of the cor. of secs.
 20, 21, 28 and 29.

15.70 Thence S.89°55'W., on a true line, bet. secs. 20 and 29,
 over mountainous land, through scattering undergrowth.
 Desc. 220 ft. to
 27.00 Wash, course SW.; asc. 270 ft. to
 Summit.
 39.89 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



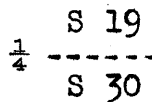
Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 71.40 Spur sloping NW.; desc. 90 ft. to
 77.30 Gulch, course NW.
 79.78 The cor. of secs. 19, 20, 29 and 30.

Land, broken and mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood
 and cactus.
 Grass, poor.

West, on a random line, bet. secs. 19 and 30.
 40.00 Set temp. ¼ sec. cor.
 79.54 Intersect W.bdy. of Tp., 3rd G. M. W., 36 lks. N. of the
 cor. of secs. 19, 24, 25 and 30, which is an iron post,
 3 ins. diam., with brass cap, marked, set and witnessed
 reestablished under current Group No. 41.

Thence N.89°45'E., on a true line, bet. secs. 19 and 30,
 over mountainous land, through scattering undergrowth.
 Desc. 150 ft. to
 8.00 Wash, 30 lks. wide, course SW.; asc 370 ft. to
 26.25 Spur sloping S.; desc. 150 ft. to
 35.25 Wash, 100 lks. wide, course SW.
 39.54 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., with brass cap, marked

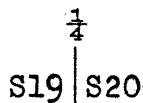


1915

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Asc. 420 ft. to
 57.30 Summit.
 79.54 The cor. of secs. 19, 20, 29 and 30.

Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood
 and cactus.
 Grass, poor.

N.0°03'W., bet. secs. 19 and 20,
 over mountainous land, through scattering undergrowth.
 Desc. 40 ft. on broken N. slope to
 2.70 Wash, 60 lks. wide, course NW.; asc. 35 ft. to
 7.50 Spur sloping W.; desc. gradually, 160 ft. to
 25.90 Wash, 50 lks. wide, course NW.
 39.80 Wash, 30 lks. wide, course NW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., with brass cap, marked



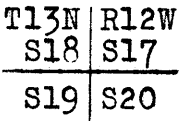
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.

Subdivision of Portion of T. 13 N., R. 12 W.

Chains

42.51 Spur slopes W.
 65.00 Desc. 240 ft. to
 75.60 Wash, course W.; asc. 90 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap, marked



1915

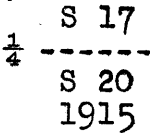
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, greasewood, ocotillo, catclaw and cactus.
 Grass, poor.

40.00 East, on a random line, bet. secs. 17 and 20.
 Set temp. ¼ sec. cor.
 79.78 Intersect N. and S. line 13 lks. S. of the cor. of secs. 16, 17, 20 and 21.

Thence S.89°54'W., on a true line, bet. secs. 17 and 20, over mountainous land, through scattering undergrowth.

.40 Wash, 50 lks. wide, course NW.
 7.00 Wash, 50 lks. wide, course NW.; asc. 80 ft. to
 17.90 Spur sloping NW.; desc. 150 ft. to
 26.00 Wash, course SW.
 39.89 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked



and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

40.10 Edge of rocky coulee; desc. 80 ft. to
 41.85 Bottom of coulee; wash, course NW.; asc. 80 ft. to
 45.00 W. edge of coulee.
 66.00 Edge of ravine; desc. 150 ft. to
 70.90 Wash, in bottom of ravine; course SW.; asc. 80 ft. to
 75.30 W. edge of ravine.
 79.78 The cor. of secs. 17, 18, 19 and 20.

Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood, cactus, cedar, crucifixion-thorn and Spanish bayonet.
 Poor grass.

40.00 West, on a random line, bet. secs. 18 and 19.
 Set temp. ¼ sec. cor.
 79.72 Intersect W. bdy. of Tp., (3rd G. M. W.) 22 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, 3 ins. diam., with brass cap, marked, set and witnessed reestablished under current Group number 41.

Thence N.89°51'E., on a true line, bet. secs. 18 and 19, over mountainous land, through scattering undergrowth.

Chains

- Desc. 80 ft. to
 5.40 Wash, course SW.; asc. 130 ft. to
 14.00 Top of spur sloping N.
 39.72 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 S 18
 $\frac{1}{4}$ -----
 S 19
 1915
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 51.20 Wash, course NW.; thence along broken S. slope.
 79.72 The cor. of secs. 17, 18, 19 and 20.
- Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, catclaw, greasewood,
 cactus and sage.
 Poor grass.
-
- N.0°03'W., bet. secs. 17 and 18,
 over mountainous land, through scattering undergrowth.
 20.40 Wash, 60 lks. wide, course W.
 29.00 Spur sloping W.
 35.60 Wash, 40 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$
 S18 | S17
 1915
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 44.80 Wash, 100 lks. wide, course W.
 56.85 Wash, 3 chs. wide, course W.
 68.92 Spur sloping NW.
 70.45 Wash, course NW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 7, 8, 17 and 18, with brass
 cap, marked

T13N	R12W
S 7	S 8
S18	S17

 1915
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, greasewood, catclaw,
 cactus, crucifixion thorn and sage.
 Poor grass.
-
- East, on a random line, bet. secs. 8 and 17.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line 13 lks. S. of the cor. of secs.
 8, 9, 16 and 17.
 Thence S.89°54'W., on a true line, bet. secs. 8 and 17,
 over mountainous land, through scattering undergrowth.
 6.20 Wash, 60 lks. wide, course SW.
 Asc. 160 ft. to

Chains

17.40 Spur, sloping SW.; desc. 110 ft. to
 30.50 Wash, 60 lks. wide, course SW.; asc.
 31.90 Spur sloping SW.; desc. 160 ft. to
 40.04 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 S 8
 $\frac{1}{4}$ -----
 S 17
 1915
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 57.50 Spur sloping S.
 75.50 Spur sloping S.; desc. 100 ft. to
 80.08 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, paloverde, ocotillo, catclaw, greasewood,
 cactus and sage.
 Poor grass.

40.00 West, on a random line, bet. secs. 7 and 18.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.69 Intersect W. bdy. of Tp., (3rd G. M. W.), 28 lks. N. of
 the cor. of secs. 7, 12, 13 and 18, which is an iron
 post, 3 ins. diam., with brass cap, marked, set and
 witnessed, reestablished under current Group No. 41.

Thence N.89°48'E., on a true line, bet. secs. 7 and 18,
 over mountainous land, through scattering undergrowth.
 Desc. 110 ft. gradually on broken E. slope to

16.50 Wash, 60 lks. wide, course NW.
 24.35 Wash, 50 lks. wide, course NW.
 39.69 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 S 7
 $\frac{1}{4}$ -----
 S 18
 1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.

79.69 The cor. of secs. 7, 8, 17 and 18.

Land, broken and mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, palo-verde, ocotillo, greasewood, catclaw,
 cactus and sage.
 Poor grass.

N.0°03'W., bet. secs. 7 and 8,
 over mountainous land, through scattering undergrowth.
 Asc. 80 ft. to

4.85 Spur sloping NW.; desc. 160 ft. to
 11.70 Wash, 100 lks. wide, course NW.; asc. 80 ft. to
 18.20 Spur sloping W.; desc. 95 ft. to
 28.00 Wash, course W.; width, 50 lks.
 37.40 Phoenix-Hillside-Kingman road, in center of wash, course W.,
 bears E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$
 S 7 | S 8
 1915

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Asc. 90 ft. to

46.10 Spur sloping NW.

52.10 Spur sloping NW.

63.85 Wash, 100 lks. wide, course NW.

65.90 Spur sloping W.

79.52 Wash, 40 lks. wide, course SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap, marked

T13N	R12W
S 6	S 5
S 7	S 8

1915

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous and broken.

Soil, rocky; 4th rate.

No timber.

Undergrowth, palo-verde, ocotillo, catclaw, greasewood, cactus, crucifixion thorn and sage.

Poor grass.

East, on a random line, bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

80.10 Intersect N. and S. line 4 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence S.89°58'W., on a true line, bet. secs. 5 and 8, over mountainous land, through scattering undergrowth.

14.30 Ridge bears NW. and SE.; desc. 75 ft. to

20.05 Draw, course SW.; asc. 50 ft. to

30.20 Same ridge bears NE. and SW.; desc. 60 ft. to

40.05 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for ¼ sec. cor., with brass cap, marked

S 5
¼ -----
S 8
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to set cor. farther in ground.

62.20 Same ridge bears NW. and SE.; desc. 500 ft. to

79.60 Wash, 40 lks. wide, course SW.

80.10 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous and broken.

Soil, rocky; 4th rate.

No timber.

Undergrowth, palo-verde, ocotillo, catclaw, greasewood, crucifixion-thorn, cactus and sage.

Poor grass.

West, on a random line, bet. secs. 6 and 7.

40.00 Set temp. ¼ sec. cor.

79.80 Intersect W. bdy. of Tp., (3rd G. M. W.), 28 lks. N. of the true point for the cor. of secs. 1, 6, 7 and 12, (2.37 chs. N. of witness cor., which is an iron post, 3 ins. diam., with brass cap, properly marked, set and witnessed, reestablished under current Group 41.)

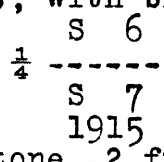
Subdivision of Portion of T. 13 N., R. 12 W.

Chains

Thence N.89°48'E., on a true line, bet. secs. 6 and 7, over mountainous land, through scattering undergrowth. Asc. gradually 85 ft. to

20.40
30.50
39.70
39.80

Spur sloping NW.
Spur sloping N.; desc. 125 ft. to
Wash, 20 lks. wide, course N.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

40.70
79.80

Wash, course NW.; asc. 275 ft. to
The cor. of secs. 5, 6, 7 and 8.

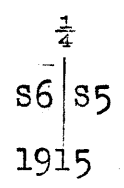
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, greasewood, catclaw, cactus, crucifixion-thorn and sage.
Poor grass.

40.00
79.72

N.0°03'W., on a random line, bet. secs. 5 and 6.
Set temp. 1/4 sec. cor.
Intersect N. bdy. of Tp. 16 lks. E. of the cor. of secs. 5, 6, 31 and 32, described in Book B.

2.30
3.30
14.00
20.00
39.72

Thence S.0°10'E., on a true line, bet. secs. 5 and 6, over mountainous land, through scattering undergrowth.
Wash, course SW.
Wash, course W.; asc. 160 ft. to
Spur sloping W.; desc. 170 ft. to
Wash, 60 lks. wide, course NW.; ascend.
Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for 1/4 sec. cor., with brass cap, marked



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Impracticable to set cor. farther in ground.

59.70
71.20
79.72

Ridge, 580 ft. above wash, bears NW. and SE.; desc. 300 ft. to
Wash, 100 lks. wide, course SW.
The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, catclaw, greasewood, crucifixion-thorn, cactus and sage.
Poor grass.

Boundaries of Portion of T. 13 N., R. 12 W.
Latitudes, Departures and Closing Errors.

14.

Line designated	True Course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
South Boundary	West	160.00				160.00
West Boundary 3rd G. M. W.,	North	480.00	480.00			
North Boundary	East	159.50			159.50	
East Boundary Subdivisional,	S.0°05'E.	79.50		79.50	.12	
	S.0°02'E.	400.00		400.00	.24	
Convergency,					.17	
Totals			480.00 479.50	479.50	160.03 160.00	160.00
Error in Latitude			.50			
	Error in Departure				.03	

GENERAL DESCRIPTION,

The portion of this township described in the foregoing field notes is very rough and mountainous, and is cut by many deep washes, draining westerly to the Big Sandy Wash.

The soil is very rocky, supporting a meager growth of grass, and a fairly heavy growth of palo-verde, ocotillo, crucifixion-thorn, greasewood, catclaw, Spanish dagger, cactus and sage. The township contains no agricultural land, and is valuable for grazing purposes only.

There is no permanent water and there are no settlers.

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Book "A"

Group 49, --Arizona.

Township 13 North, Range 12 West.

DATE DIAGRAM

	12-9-15	12-9-15	12-17-15	12-17-15	12-18-15	12-18-15
	6	5				
	12-21-15	12-22-15				
	7	8				
	12-20-15	12-20-15				
	18	17				
	12-19-15	12-20-15				
	19	20				
	12-19-15	12-17-15				
	30	29				
	12-18-15	12-18-15				
	31	32				
	12-17-15	12-16-15				
3rd	Standard Parallel North					

W.
Mer.
Guide

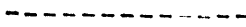
Lines dated in red were surveyed by Otis Ross,
U. S. Surveyor.

Lines dated in blue were surveyed by A. Parker Warner,
U. S. Transitman.

FIELD ASSISTANTS TO OTIS ROSS, U. S. SURVEYOR.

16.

Wellesley P. McVay,	1st Chainman
John F. McVay	2nd Chainman
Fred Flick	Flagman
Thomas W. Ross	Moundman
Leonard A. Gray	Axman & Line teamster
Geo. Walters	Moundman



FIELD ASSISTANTS TO A. PARKER WARNER, U. S. TRANSITMAN.

Alexander MacRae	1st Chainman
Duncan McRae	2nd chainman
George P. Kirk	Flagman
Zerah M. D. Waley	Moundman
Nathan Foreman	Axman & Line teamster.



CERTIFICATE OF UNITED STATES SURVEYOR

~~FINAL OATH OF UNITED STATES SURVEYOR~~

I, Otis Ross, U. S. Surveyor, ~~as solemnly sworn~~ that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 49, Arizona, bearing date of the 20th day of February, 1915, 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 the the Boundaries and Subdivisional Lines of Tps. 13, 14, 15, 16 and 16 1/2 N., R. 12 W., and Tps. 16 and 16 1/2 N., R. 11 W.,

of the Gila and Salt River Base and Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by me, and under my direction, and ~~XXXXXX~~ ~~XXXXXX~~ 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 Group 49, Arizona and in the specific manner described in the field notes, ~~and in~~ ~~the foregoing original field notes of execution~~ in this book, and in books "B," "C," "D," "E," "F," and "G" of this group.

Subscribed at Phoenix, Arizona,
on May 8th, 1916, by Otis Ross
U. S. Surveyor.

~~Subscribed by said~~ ~~XXXX~~ ~~day of~~ ~~XXXX~~, and sworn to before me ~~XXXX~~

~~XXXXXX~~

~~APPROVAL.~~

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~
~~Phoenix, Arizona,~~ 191

~~The foregoing field notes of the survey of the~~
~~Subdivisional Lines of a Portion of~~
~~TOWNSHIP 13 NORTH, RANGE 12 WEST,~~
~~executed by Otis Ross, U. S. Surveyor,~~
~~under his special instructions dated Feb. 20, 1915, for Gr. 49, Arizona,~~ having been ~~critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.~~

~~U. S. Surveyor General.~~

~~I certify that the foregoing transcript of the field notes of the above described survey in~~
~~has been correctly copied for use in the office of the Surveyor General.~~

~~U. S. Surveyor General.~~

CERTIFICATE OF UNITED STATES TRANSITMAN.

FINAL OATH OF UNITED STATES SURVEYOR

BOOK 303

I, A. Parker Warner U.S. Transitman, hereby certify on honor
~~U. S. Surveyor, as solemnly sworn~~ that, in pursuance
of special instructions received from the U. S. Surveyor General for Group 49, Arizona,
bearing date of the 20th day of February, 1915, 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 the
Boundaries and Subdivisional Lines of
Tps. 13, 14, 15, 16 and 16 1/2 N., R. 12 W., and
Tps. 16 and 16 1/2 N., R. 11 W.,
of the Gila and Salt River
Base and Meridian, in the State of Arizona
and in Books "B", "C", "D", "E", "F" and "G"
the foregoing field notes as having been executed by me, and under my direction, and ~~as fully~~
~~solemnly sworn~~ that all the corners of said survey have been established and perpetuated in strict accord-
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor
General, for Group 49, Arizona, and in the specific manner described in the field notes, ~~and that~~
~~the foregoing are the original field notes of such survey,~~ in this book, and in Books "B", "C",
"D", "E", "F", and "G", of this group.

Subscribed at Phoenix, Arizona, on
May 8, 1916, by

A. Parker Warner
U. S. Surveyor
Transitman

~~Subscribed by said~~ ~~and sworn to before me~~
~~XXXX~~ ~~XXXX~~ ~~XXXX~~



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona JUN 27, 1918.

The foregoing field notes of the survey of the
Subdivisional Lines of a Portion of
TOWNSHIP 13 NORTH, RANGE 12 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona,
executed by A. Parker Warner, U. S. Transitman,
under his special instructions dated Feb. 20, 1915, for Gr. 49, Arizona, 1915, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank A. Frost
U. S. Surveyor General.

~~For any that the foregoing field notes are the original notes of such survey,~~
~~and have been correctly copied from the original notes on file in this office.~~