

3039

189
G. L. o. letter "E"
April - 1919.

Book "F"
4-679

BOOK 3039

FIELD NOTES

OF THE SURVEY OF THE

West boundary, and

Partial Subdivision

of

FRACL. TOWNSHIP 16 $\frac{1}{2}$ NORTH, RANGE 11 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,

~~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 February 12, 1916.

Survey completed February 20, 1916.

Executed under Assignment
Instructions dated November 29, 1915.

3039

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17A

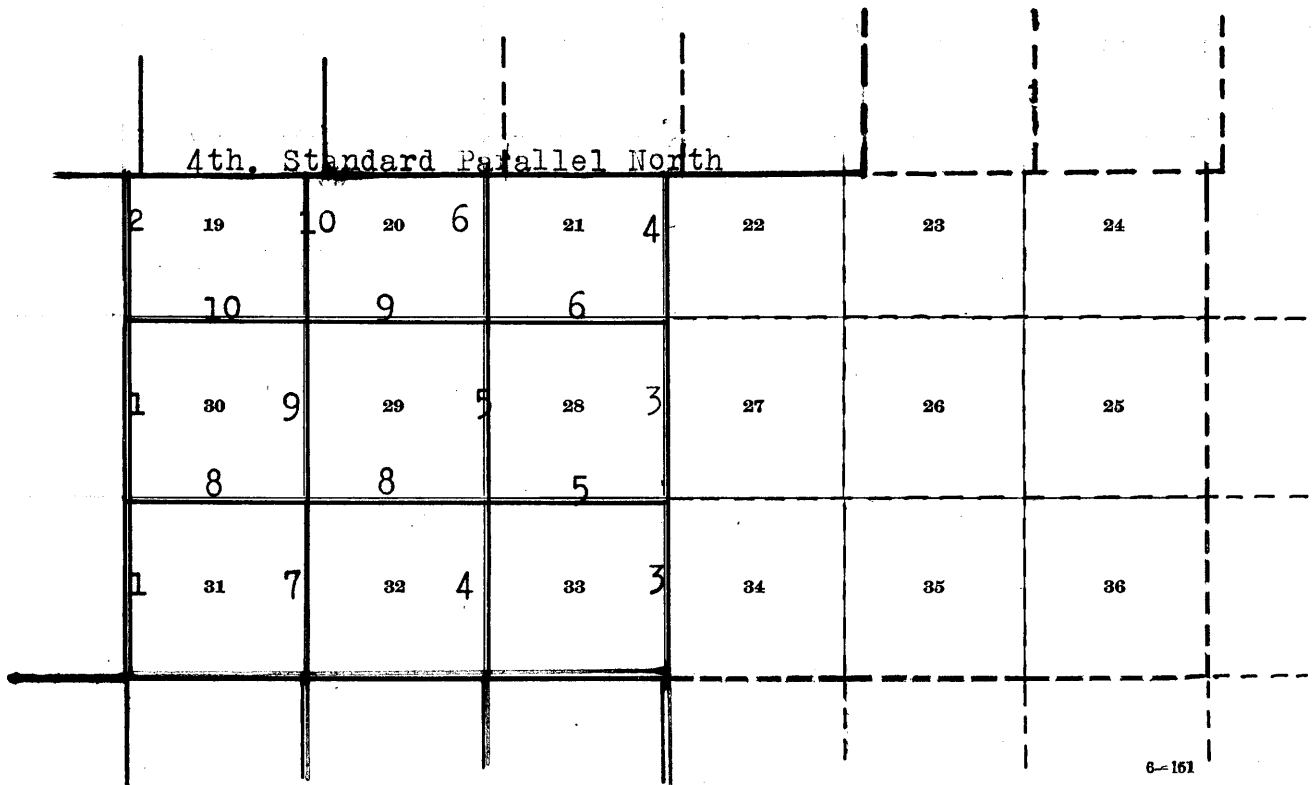
Book "F"

Group 49 - - - Arizona.

BOOK 3033

INDEX DIAGRAM.

FRAC. Township 16½ North, Range 11 West.



6-161

- Surveyed under this Group. Notes in this book.
- Surveyed under this Group. Notes in Book "E".
- Surveyed under this Group. Notes in Book "G".
- Surveyed under this Group. Notes in Book "D".
- Surveyed under Group 50.
- - - - -** Unsurveyed.

West Boundary and Partial Subdivision of T. 16 $\frac{1}{2}$ N., R. 11 W. Fracl.

Chains

Survey executed by Otis Ross, U. S. Surveyor, and A. Parker Warner, U. S. Transitman, on dates shown on page 13. hereof.

The instruments used are described, with record of approval by the assistant supervisor of surveys, and field tests, in Book A.

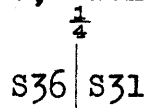
The adjustments of the instruments were checked and maintained throughout the survey, by frequent comparison of their indications with a meridian determined by observation on Polaris at elongation.

The magnetic declination in this township is 17°E.

West boundary of Frcl. T. 16 $\frac{1}{2}$ N., R. 11 W.

From the cor. of Tps. 16 and 16 $\frac{1}{2}$ N., Rs. 11 and 12 W., described in Book D,

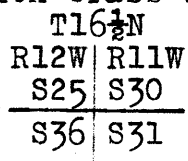
40.00 North, bet. secs. 31 and 36, over top of mesa, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked



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

Leave mesa, the edge of which bears NE. and SW. Desc. 885 ft., on abrupt NE. slope, over cliffs, 80 ft. high, to

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground and 20 ins. in a mound of stone, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked



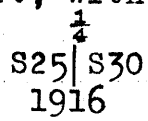
1916 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Impracticable to set post farther in ground.

Land, 48 chs. rolling mesa, and balance mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, scrub oak, and quinine brush. Poor grass.

4.85 North, bet. secs. 25 and 30, over mountainous land, through scattering undergrowth; desc. 80 ft., to Gulch, course NE.; desc. 240 ft., to

23.20 Bohner Canyon, containing clear water, 2 lks. wide, 2 ins. deep, course N.65°W. Asc. 225 ft., on SW. slope, to

40.00 On point of spur, sloping 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



Chains

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
Desc. 90 ft., to
43.75 Gulch, course SW.; asc. 190 ft., on S. slope, to
51.45 Point of spur, sloping SW.; desc. 160 ft., to
60.51 Gulch, course SW.; asc. 400 ft., on rocky SE. slope, to
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the
ground and 18 ins. in a mound of stone, for cor. of secs.
25, and 30 and fract. secs. 19 and 24, with brass cap,
marked
T16 $\frac{1}{2}$ N
R12W | R11W
S24 | S19

S25 | S30
1916
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor. Impracticable to set post farther in ground.
Land, mountainous and broken.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, ocotillo, greasewood, scrub oak
and cactus. Poor grass.

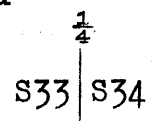
North, bet. fract. secs. 19, and 24,
over mountainous land, through scattering undergrowth.
Asc. 165 ft., on S. slope, to
8.70 Top of spur, sloping SW.; desc. 250 ft., on S. slope, to
20.00 Gulch, course W.; asc. 210 ft., on S. slope, to
30.50 Point of spur, sloping E.; desc. gradually, 20 ft., to
38.50 Wash, course SE.; asc. SW. 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
 $\frac{1}{4}$
S24 | S19
1916
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
50.75 Low spur, 190 ft. above wash, sloping SW.
51.75 Wash, course SW.; asc. 330 ft., on SE. slope, to
63.00 Intersect 4th St. Par. N. 93 lks. W. of the standard cor.
of secs. 32 and 33, which is an iron post, 3 ins. diam.,
with brass cap, properly marked, set and witnessed,
established under current Group No. 50.
At point of intersection
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for closing cor. of Tps. 16 $\frac{1}{2}$ N., Rs. 11 and 12 W.,
with brass cap, marked
T17N R11W
S 32

R12W | R11W
S24 | S19
C C
T16 $\frac{1}{2}$ N
1916
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
S. of cor.
Land, mountainous and broken.
Soil, rocky; 4th rate.
No timber.
Undergrowth, palo-verde, greasewood, ocotillo, quinine
bush, catclaw and cactus.
Poor grass.

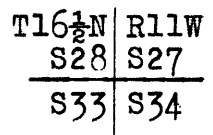
Chains

From the cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp., described in Book E,

N.0°02'W., bet. secs. 33 and 34,
 over rolling land, through dense undergrowth.
 Desc. 90 ft., on N. slope, to
 7.90 Wash, 20 lks. wide, course E. (near head.
 Asc. 125 ft., on S. slope, to
 19.85 Spur, sloping E.; desc. gradually, 85 ft., on NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground and 12 ins. in a mound of stone, for 1/4 sec. cor.,
 with brass cap, marked



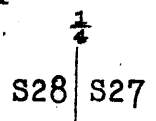
1916
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Impracticable to set post farther in ground.
 Desc. 115 ft., to
 44.75 Wash, 35 lks. wide, course E.; asc. 130 ft., on SE. slope,
 to
 54.55 Spur, sloping E.; continue over level top of same.
 69.55 Head of draw, course E.; asc. SE. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 27, 28, 33 and 34, with brass
 cap, marked



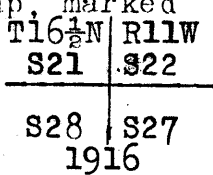
1916
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor.

Land, rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub cedar, palo-verde, oak brush, grease-
 wood, catclaw and cactus. Fair grass.

N.0°02'W., bet. secs. 27 and 28,
 over rolling land, through dense undergrowth.
 Asc. gradually, 50 ft., to
 15.00 Spur, sloping SE.; desc. 210 ft., over mountainous land,
 on NW. slope, to
 29.40 Wash, 20 lks. wide, course NE.; asc. 185 ft., on SE. slope,
 to
 39.45 Spur, sloping E.; desc. NE. slope; leaving mesa top, which
 bears E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
 ground, and 22 ins. in a mound of stone, for 1/4 sec. cor.,
 with brass cap, marked



1916
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Impracticable to set post farther in ground.
 64.30 Head of draw, course E.; 345 ft. below mesa.
 69.30 Spur, sloping NE.; desc. gradually, 60 ft., on N. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 27, and 28, and fract. secs. 21
 and 22, with brass cap, marked



4

Partial Subdivision of Parcel M. 16 $\frac{1}{2}$ N. R. 11 W.

Chains

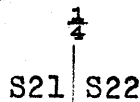
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous and rolling.
Soil, rocky; 4th rate.
No timber.

Undergrowth, scrub cedar, palo-verde, oak brush, greasewood, catclaw and cactus. Poor grass.

N.0°02'W., bet. fract. secs: 21, and 22, over roughly rolling land, through dense undergrowth. Desc.

- 9.75 Road bears E. and W.
- 12.45 Stream of clear water, 3 lks. wide, 2 ins. deep, course E. 100 ft. below sec. cor. Asc. gradually, on SE. slope.
- 22.95 Spur, sloping E.; desc. gradually, on NE. slope.
- 29.90 Draw, course E.; asc. gradually, on SE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground and 14 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked

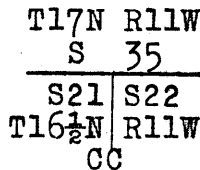


1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Impracticable to set post farther in ground.

- 46.50 Spur, sloping E. Desc.
- 50.00 Draw, course E. Asc.
- 54.90 Spur, sloping SE. Desc.
- 62.83 Intersect 4th St. Par. N. 3.05 chs. W. of the standard cor. of secs. 35 and 36, which is an iron post, 3 ins diam., with brass cap, properly marked, set and witnessed, established under current Group No. 50.

At point of intersection
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fract. secs: 21 and 22, with brass cap, marked



1916

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

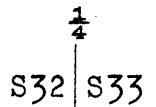
Land, roughly rolling and broken.
Soil, rocky; 4th rate.
No timber.

Undergrowth, scrub cedar, oak brush, manzanita, greasewood, palo-verde, catclaw and cactus. Poor grass.

From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., described in Book E,

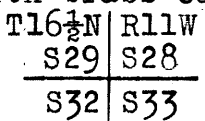
- 14.90 N.0°02'W., bet. secs. 32 and 33, over rolling mesa, through dense undergrowth; desc. gradually 80 ft., to Wash, near head, 20 lks. wide, course E.; asc. gradually, 110 ft, on SE. slope, to
- 34.80 Top of ridge bears NE. and SW.; desc. gradually, on N. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground and 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked

Chains



1916

63.40 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to set post farther in ground.
 N. edge of mesa, 110 ft. below ridge, bears NE. and SW.
 74.20 Desc. 260 ft., on N. slope, over mountainous land, to
 80.00 Head of draw, course NW.; thence along W. slope.
 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the
 ground and 12 ins. in a mound of stone, for cor. of secs.
 28, 29, 32 and 33, with brass cap, marked

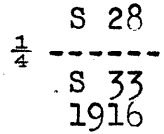


1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to set post farther in ground.
 Land, rolling mesa and mountainous.
 Soil, rocky; 3rd and 4th rate.
 No timber.
 Undergrowth, scrub cedar, oak brush, palo verde, grease-
 wood, catclaw and cactus. Poor grass.

40.00 East, on a random line, bet. secs. 28 and 33.
 80.00 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line at the cor. of secs. 27, 28, 33
 and 34.

Thence West, on a true line, bet. secs. 28 and 33,
 over rolling top of mesa, through dense undergrowth.
 Asc. 140 ft., on gradual E. slope, to
 24.90 Spur, sloping NE.; asc. 100 ft., on gradual NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground and 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked



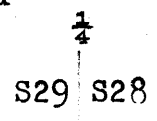
47.15 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to set post farther in ground.
 50.95 Spur, sloping N.; 40 ft. above $\frac{1}{4}$ sec. cor.
 Head of wash, course NW.; asc. 140 ft., on gradual NE.
 slope, to
 69.80 Edge of mesa bears NE. and SW.; desc. 180 ft., on broken
 W. slope, to
 80.00 The cor. of secs. 28, 29, 32 and 33.

Land, rolling and broken.
 Soil, rocky; 3rd and 4th rate.
 No timber.
 Undergrowth, scrub cedar, oak brush, palo-verde, grease-
 wood, catclaw and cactus. Fair grass.

N.0°02'W., bet. secs. 28 and 29,
 over mountainous land, through dense undergrowth.
 1.40 Spur, sloping NW.; desc. 150 ft., on NE. slope, to
 12.40 Wash, 20 lks. wide, course NW.; near head.
 Thence , along W, slope, to
 16.90 Spur, sloping NW.; desc. 155 ft., on N. slope, to
 22.95 Stream, containing clear water 3 lks. wide, 2 ins. deep,
 course W.; asc. SW. slope.
 24.00 Desc. 60 ft., to

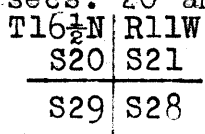
Chains

29.00 Asc. 125 ft., to
 34.70 Spur, sloping NW.; desc. 25 ft., on NW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground and 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked



1916
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to set post farther in ground.
 49.70 Draw, 160 ft. below $\frac{1}{4}$ sec. cor; (near head), course NW.
 Desc. gradually, 75 ft., on NW. slope, to
 77.00 Head of draw, course SW.; road to tungsten mine bears NE. and SW.;

Asc. SE. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for cor. of secs. 28, and 29 and fracl. secs. 20 and 21, with brass cap, marked

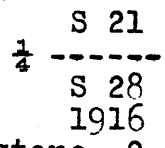


1916
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to set post farther in ground.
 Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub cedar, palo-verde, oak brush, greasewood, catclaw and cactus. Poor grass.

40.00 East, on a random line, bet. sec. 28 and fracl. sec. 21.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line at the cor. of secs. 27 and 28 and fracl. secs. 21 and 22.

Thence West, on a true line, bet. sec. 28 and fracl. sec. 21, over mountainous land, through dense undergrowth; along N. slope.

8.00 Wash, course N.; asc. NE. slope,
 40.04 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground and 10 ins. in a mound of stone, 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, N. of cor. Impracticable to set post farther in ground.
 45.25 Top of divide, 650 ft. above wash, bears N. and S.
 Desc. 440 ft., on NW. slope, to
 79.20 Road to tungsten mine bears NE. and SW.
 80.08 The cor. of secs. 28 and 29. and fracl. secs. 20 and 21.

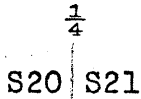
Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub cedar, manzanita, oak brush, greasewood, palo-verde, catclaw and cactus. Poor grass.

N.0°02'W., bet. fracl. secs. 20, and 21,
 over mountainous land, through dense undergrowth.
 1.00 Head of draw, course SW.; asc. 100 ft., gradually, on SE. slope, to

Partial Subdivision of frac. of T. 16 1/2 N., R. 11 W.

Chains

- 23.75 Ridge bears E. and W.; desc. gradually, 35 ft., on NE. slope, to
- 34.90 Wash, 30 lks. wide, course SE.; asc. gradually, 60 ft., on SW. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground and 26 ins. in a mound of stone, for 1/4 sec. cor., with brass cap, marked

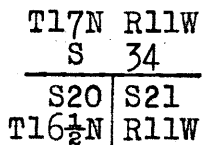


1916

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Impracticable to set post farther in ground. Along E. slope.
- 44.00 Wash, 20 lks. wide, course SE.; asc. 180 ft., on SW. slope, to
- 57.90 Spur, sloping SE.; desc. gradually, 50 ft., on NE. slope, to
- 62.67 Intersect 4th St. Par. N. 3.30 chs. W. of the standard cor. of secs. 33 and 34, which is an iron post, 3 ins. diam., with brass cap, marked, set and witnessed in proper manner, established under current Group No. 50.

At point of intersection

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



C C
1916

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

Land, mountainous and broken.

Soil, rocky; 4th rate.

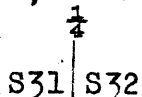
No timber.

Undergrowth, oak brush, greasewood, scrub cedar, catclaw, palo-verde and cactus. Poor grass.

From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., described in Book E,

N. 0° 03' W., bet. secs. 31 and 32, over top of mesa, through dense undergrowth.

- 15.00 Desc. 135 ft., to
- 22.55 Gulch, 30 lks. wide on bottom, course NW.; asc. 175 ft., on SW. slope, to
- 34.80 Spur, sloping W.; desc. NW. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked



1916

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
- 41.00 Wash, 10 lks. wide, course W. (near head). Asc. 230 ft., on S. slope, to
- 59.70 Ridge bears NW. and SE.; desc. from top of mesa, the edge of which bears E. and W., on NE. slope.
- 69.60 Spur, sloping NE.; desc. 330 ft., on NW. slope, to
- 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

Partial Subdivision of fractional 16 $\frac{1}{2}$ N., R. 11 W.

Chains

T16 $\frac{1}{2}$ N	R11W
S30	S29
S31	S32

1916

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

Land, rolling and mountainous. Soil, rocky; 3rd and 4th rate. No timber.

Undergrowth, scrub cedar, scrub oak, palo-verde, greasewood, catclaw and cactus. Poor grass.

40.00 East, on a random line, bet. secs. 29 and 32.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect N. and S. line 28 lks. S. of the cor. of secs. 28, 29, 32 and 33.

Thence S.89°48'W., on a true line, bet. secs. 29 and 32, over mountainous land, through dense undergrowth.
 Desc. 225 ft., on SW. slope, to
 11.50 Wash, 10 lks. wide, course NE.; desc. gradually, 30 ft., on NW. slope, to
 21.45 Wash, 40 lks. wide, course N.; asc. 410 ft., on NE. slope, to
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked

S 29
$\frac{1}{4}$ -----
S 32
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Impracticable to set post farther in ground.
 45.00 Desc. 260 ft., to
 54.05 Wash, 20 lks. wide, near head, course NW.; desc. 20 ft., to
 57.95 Spur, sloping NW.; desc. 90 ft., on NW. slope, to
 62.35 Wash, 20 lks. wide, near head, course N.; asc. 135 ft., to
 79.50 Spur, sloping NW.; desc. NW. slope.
 79.94 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous and broken. Soil, rocky; 4th rate. No timber. Undergrowth, scrub cedar, scrub oak, manzanita, greasewood, palo-verde, catclaw and cactus. Poor grass.

40.00 West, on a random line, bet. secs. 30 and 31.
 Set temp. $\frac{1}{4}$ sec. cor.
 77.77 Intersect W. bdy. of Tp. 23 lks. N. of the cor. of secs. 25, 30, 31 and 36, hereinbefore described.

Thence N.89°50'E., on a true line, bet, secs. 30 and 31, over mountainous land, through dense undergrowth.
 Desc. 50 ft., on NE. slope, to
 5.25 Wash, 20 lks. wide, course N.; asc. 30 ft., on NW. slope, to
 10.75 Spur, sloping N.; desc. 125 ft., on NE. slope, to
 27.60 Wash, 2 chs. wide, course N.; contains clear stream, 2 lks. wide, 2 ins. deep.
 Asc. W. slope.
 37.77 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked

S 30
$\frac{1}{4}$ -----
S31
1916

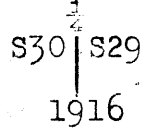
Partial Subdivision of Secs. 29, 30, 31 and 32, T4 16 1/2 N. R. 11 W. 9

Chains.

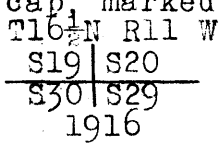
- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Impracticable to set post farther in ground.
- 44.90 Spur, sloping NW.; 285 ft. above wash. Desc, gradually, 35 ft., along NE. slope, to
- 49.85 Head of draw, course NW.; asc 215 ft., on SW. slope, to
- 59.00 Desc. 90 ft. to
- 60.55 Head of rocky gulch, course NW.; asc. 415 ft., on NW. slope, to
- 77.77 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub cedar, oak brush, palo-verde, grease-wood, cat claw-and-cactus. Poor grass.

- N.0°03' W., bet. secs. 29 and 30, over mountainous and broken land, through dense undergrowth. Desc. 70 ft., on NW. slope, to
- 2.50 Spur, sloping NW.; desc. 625 ft., on NE. slope, to
- 20.90 Wash, 40 lks. wide, course NW.; desc. 35 ft., on NE. slope, to
- 27.20 Bohner Creek, containing clear water, 10 lks. wide, 1/2 in. deep, course SW.; asc. 100 ft., on SE. slope, to
- 34.40 Spur, sloping E.; desc. 30 ft., on NE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground and 12 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 post farther in ground.
- 42.00 Draw, course SE.; asc. 340 ft., on S. slope, to
- 51.20 Spur, sloping SE.; desc. 135 ft. on NE. slope, to
- 58.90 Wash, 10 lks. wide, course SE.; asc. 290 ft., on S. slope, to
- 69.33 Spur, sloping SE. Road to tungsten mine brs. NE. and W. Desc. NE. slope. Mine brs. W. about 16 chs. dist.
- 72.70 Same road, brs. NW. and SE.
- 80.00 100 ft. below spur, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 29 and 30 and fracl. secs. 19 and 20, with brass cap, marked



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

Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub cedar, scrub oak, palo-verde, greasewood, cat claw and cactus. Poor grass.

- 40.00 East on a random line, bet. sec. 29 and fracl. sec. 20. Set temp. 1/4 sec. cor.
- 80.00 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 28, and 29 and fracl. secs. 20 and 21.

10. partial Subdivision of fract. T. 16 N. R. 11 W.

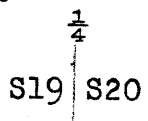
Chains.	
	Thence S. 89° 54' W., on a true line, bet. sec. 29 & frac. sec. 20, over mountainous land, through dense undergrowth.
1.00	Desc. NW. slope to Wash, 10 lks. wide, course SW.; asc. 185 ft., on SE. slope, to
17.15	Spur, sloping SE.; desc. to
20.00	Asc. 120 ft. to
29.55	Spur, sloping SW.; desc. 135 ft., on NW. slope, to
37.25	Wash, 30 lks. wide, course SW.; asc. SE. slope.
39.33	Spur, sloping SE.; desc. 85 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, and 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
	S 20 ----- $\frac{1}{4}$ S29 1916
49.80	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to set post farther in ground. Stream of clear water, 3 lks. wide, 2 ins. deep, course S. Asc. 215 ft., on broken SE. slope, to
66.25	Spur, sloping SE.; desc. 165 ft., on SW. slope, to
74.30	Road to tungsten mine brs. NW. and SE.
77.05	Wash, 30 lks. wide; containing stream of clear water, 1 lk wide, 1 in. deep, course SE.; asc. E. slope to
80.00	The cor. of secs. 29 and 30 and frac. secs. 19 and 20. Land, mountainous and broken. Soil, rocky; 4th rate. No timber. Undergrowth, scrub cedar, scrub oak, palo-verde, greasewood, cat claw and cactus. Poor grass.
40.00	West on a random line, bet. sec. 30 & frac. sec. 19. Set temp. $\frac{1}{4}$ sec. cor.
77.60	Intersect W. bdy. of Tp., 14 lks. N. of the cor. of secs. 25 & 30 & frac. secs. 19 & 24, hereinbefore described. Thence N. 89° 54' E., on a true line, bet. sec. 30 & frac. sec. 19, over mountainous land, through dense undergrowth. Desc. 25 ft., on SE. slope, to
3.15	Head of draw, course SW.; asc. 100 ft., on NW. slope, to
11.40	Spur, sloping SW.; desc. 30 ft., on SE. slope, to
18.10	Gulch, near head, course SW.; asc. 120 ft., on NW. slope, to
23.60	Spur, sloping SW.; desc. 85 ft., on SE. slope, to
29.75	Gulch, near head, course SW.; asc.
37.60	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
	$\frac{1}{4}$ S19 ----- S30 1916
45.80	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
74.50	Spur, 550 ft. above gulch, sloping SW.; desc. on SE. slope. Road to tungsten mine brs. N. and S.
77.60	550 ft. below spur, The cor. of secs. 29 and 30 and frac. secs. 19 & 20. Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, scrub cedar, scrub oak, palo-verde, greasewood, cat claw and cactus. Poor grass.
5.35	N. 0° 03' W., bet. frac. secs. 19 and 20, over mountainous land, through dense undergrowth. Desc. 30 ft. to Stream of clear water, 2 lks. wide, 1 in. deep, course SE.

OK 3000

Partial Subdivision of fractional Sec. 16 1/2 N., R. 11 W.

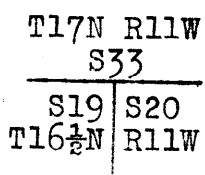
Chains

6.48 Asc. S. slope.
 14.50 Road to tungsten mine bears E. and W.
 Spur, sloping SE.; 195 ft. above sec. cor.; thence along E. slope.
 24.50 Head of draw, course SE.; asc. 180 ft., on S. slope, to
 30.80 Spur, sloping SE.; asc. 50 ft., along SE. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground and 16 ins. in a mound of stone, for 1/4 sec. cor., with brass cap, marked



61.50 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Impracticable to set post farther in ground.
 Wash, 30 lks. wide, course SE.; 245 ft. below spur.;
 Asc. 20 ft., on SW. slope, to
 62.65 Intersect 4th St. Par. N. 3.19 chs. W. of the standard cor. of secs. 33 and 34, which is an iron post, 3 ins. diam., with brass cap, properly marked, set and witnessed, established under current Group No. 50.

At point of intersection
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of frac. Secs. 19, and 20, with brass cap, marked



C C
 1916

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

Land, mountainous and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub-cedar, scrub oak, palo-verde, grease-wood, catclaw and cactus. Poor grass.

Boundaries of portion fractional T. 16 1/2 N., R. 11 W.

Latitudes, Departures, and Closing Errors.

Line Designated	True Course	Dist. chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary	West	238.00				238.00
West Boundary	North	223.00	223.00			
North Boundary 4th St. Par. N.	East	237.88			237.88	
East Boundary Subdivisional,	S.0°02'E.	222.83		222.83	.13	
Convergency					.12	
Totals			223.00	222.83	238.13	238.00
Error in Latitude,			222.83		238.00	
Error in Departure			.17			.13

The southern part of the portion of this township surveyed under this group consists of high mesa land, the remainder being broken and mountainous. A low divide runs N. and S. through the eastern part of the township, the drainage being E. and W. from its top. Most of the western part drains into Bohner Canyon, which flows westerly through the approximate center of the township. The canyon contains a stream of clear water, averaging 20 lks. wide and 1 ft. deep.

The soil is very rocky, and altogether unsuited to agriculture. It supports a meager growth of grass, and abundant palo-verde, greasewood, scrub oak, catclaw, and cactus; and a scant growth of scrub cedar. A few willow and black walnut trees are found along the banks of the creek. The land is valuable chiefly for grazing purposes.

There is an unpatented tungsten mine in the NE. $\frac{1}{4}$ of sec. 30.

The township contains no settlers.

FOR LIST OF ASSISTANTS SEE BOOK "A."

Book "F"

Group 49, Arizona.

Fracl. Township 16½ North, Range 11 West.

3030

DATE DIAGRAM

4th. Standard Parallel North.

19	20	21
30	29	28
31	32	33

Vertical labels on the left: 2-18-16, 2-18-16, 2-18-16
 Vertical labels on the right: 2-19-16, 2-19-16, 2-19-16
 Vertical labels on the far right: 2-17-16, 2-17-16, 2-17-16
 Horizontal labels at the bottom: 2-20-16, 2-19-16, 2-17-16
 Horizontal labels at the bottom: 2-20-16, 2-18-16, 2-16-16
 Horizontal labels at the bottom: 2-12-16, 2-12-16, 2-12-16
 Horizontal labels at the bottom: 2-12-16, 2-12-16, 2-12-16

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.

For certificates of U. S. Surveyor and
U. S. Transitman, see Book "A".

BOOK 3039

A P P R O V A L

Office of United States Surveyor-General,

Phoenix, Arizona. JUN 27 1918

The foregoing field notes of the survey of the
West Boundary, and Partial Subdivision of

FRACTIONAL TOWNSHIP 16 $\frac{1}{2}$ NORTH, RANGE 11 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,
under special instructions dated February 20, 1915,
for Group 49, Arizona, having been critically exam-
ined, and the necessary corrections and explanations
made, the said field notes and the surveys they de-
scribe, are hereby approved.



U. S. Surveyor-General.