

Subdivisions

BOOK 2937

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

TOWNSHIP 14 NORTH, RANGE 18 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Albert Smith, Jr., U.S. Surveyor,

and

J. M. McKinney, Jr., U.S. Transitman,

~~In the capacity of U.S. Surveyor~~, under instructions dated December 23, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 42, which were approved by the Commissioner of the General Land Office, January 22, 1915.

Survey commenced March 18, 1915.

Survey completed May 3, 1915.

2937

2937

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1A

Book "E"
Group 42, Arizona
(Subdivisions)

BOOK 2987

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———— Township Exteriors. Notes in Book "A".

———— Subdivision lines surveyed under this Group.

2827
1.β

Subdivision of T. 14 N., R. 18 W.

Chains.

Survey commenced Mar. 18, 1915, and executed jointly by Albert Smith, Jr., U. S. Surveyor, and J. M. McKinney, Jr., U. S. Transitman, with Young and Sons' light mountain transits Nos. 8540 and 8483, respectively, with Smith solar attachments. For description of instruments, and certificate of approval, see Book "A", and subdivision of T. 13 N., R. 18 W., in book "C".

In the following field notes, the initials A.S. and J. M. M. refer to Albert Smith, Jr., U. S. Surveyor, and J. M. McKinney, Jr., U. S. Transitman, respectively.

Knowing from recent and repeated tests of these instruments on a meridian established by observations on Polaris at elongation, that they are in adjustment, we proceed to the subdivision of T. 14 N., R. 18 W.

A. S. and J. M. M.

A. S:
From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is an iron post established by me, as described in Book "A", I run
N.0° 1' W., bet. secs. 35 and 36.

Over rolling land, through scattering undergrowth.
4.10 Wash, 10 lks. wide, course SE. Asc. S. slope, 30 ft. to
12.10 Spur, brs. SE. Desc. N. slope, 45 ft. to
21.10 Wash, 15 lks. wide, course SE. Asc. broken SW. slope, 55 ft. to
33.00 Low spur, slopes SE. Desc. NE. slope, to
38.40 Wash, 12 lks. wide, course SE. Asc. SW. slope, 60 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;
 $\frac{1}{4}$ in N.,
S36 in E., and
S35 in W. half;

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

51.50 Wash, 20 lks. wide, course SE. Thence over rocky bench.
66.60 Wash, 10 lks. wide, course SE. Asc. SW. slope to
72.60 Low spur, slopes SE. Desc. N. slope, 45 ft. to
75.00 Wash, 15 lks. wide, course SE. Asc. SW. slope, 50 ft. to
78.70 Low spur, slopes SE
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

1915 on S. rim;
T14N R18W in N. half;
S26 in NW.,
S25 in NE.,
S36 in SE. and
S35 in SW. quadrant;

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

Land, rolling.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, cacti, palo verde, ocatilla, greasewood, sage brush and yucca.
Mar. 18, 1915: At this cor., I set off 1° 8' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34°31 $\frac{1}{2}$ ' N.

40.00 N.89° 59' E., on a random line, bet. secs. 25 and 36.
Set temp. $\frac{1}{2}$ sec. cor.

80.05 Intersect the E. bdy. of the Tp., at the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by me, as described in Book "A".
Thence I run
S.89° 59' W., on a true line, bet. secs. 25 and 36.

2.

Subdivision of T. 14 N., R. 18 W.

Chains.	<p>Over rolling land, through scattering undergrowth. Wash, 15 lks. wide, course SE. Asc. to 33.60 Low spur, slopes SE. Desc. 37.20 40.02$\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; S25 in N., S36 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. 45.00 Wash, 10 lks. wide, course SE. Asc. NE. slope, 105 ft. to 61.40 Low spur, brs. SE. Thence along S. slope. 68.90 Wash, 15 lks. wide, course SE. Asc. NE. slope, 55 ft. to 75.30 Low spur, slopes SE. Desc. SW. slope, 30 ft. to 77.80 Wash, course SE. Asc. NE. slope, 30 ft. to 80.05 The cor. of secs. 25, 26, 35 and 36. Land, rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, cacti, palo verde, greasewood, sage brush and ocatilla.</p>
<p>2.00 3.50 6.25 11.35 23.25 30.25 40.00</p>	<p>N.0° 1' W., bet. secs. 25 and 26. Over rolling land, through scattering undergrowth. Draw, course SE. Asc. to Low spur, slopes SE. Desc. N. slope, 30 ft. to Wash, 20 lks. wide, course SE. Asc. S. slope to Low spur, slopes SE. Thence along broken E. slope. Low spur, brs. SE. Desc. NE. slope, 25 ft. to Wash, 10 lks. wide, course SE. Asc. broken SW. slope, 120 ft. Impracticable to set an iron post at this point. Set a granite stone, 14 X 10 X 6 ins., 10 ins. in the ground, on solid rock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. <p style="text-align: right;">Mar. 18, 1915.</p></p>
<p>47.70 54.50 71.75 80.00</p>	<p>Mar. 19, 1915, Continue N.0° 1' W., bet. secs. 25 and 26. Spur, slopes SE. Desc. NE. slope, 105 ft. to Wash, 30 lks. wide, course SE. Asc. broken SW. slope, 335 ft. to Spur, slopes SE. Desc. NE. slope, 115 ft. to Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, on solid rock, supported by a mound of stone, for cor. of secs. 23, 24, 25 and 26, marked on brass cap 1915 on S. rim; T14N R18W in N. half; S23 in NW., S24 in NE., S25 in SE. and S26 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky, decomposed granite; 3rd rate. No timber. Undergrowth, ocatilla, greasewood, palo verde and sage brush.</p>

Chains.

N.89° 59'E.. on a random line, bet. secs. 24 and 25.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.03 Intersect E. bdy. of Tp., 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by me, as described in Book "A".
 Thence I run
 N.89° 59' W., on a true line, bet. secs. 24 and 25.
 Over mountainous land, through scattering undergrowth.
 Asc. NE. slope, 340 ft. to
 27.55 Top of asc.; desc. SW. slope, 50 ft. to
 30.15 Ravine, course SE. Asc. NE. slope, 40 ft. to
 32.60 Spur, brs. SE. Desc. SW. slope, 190 ft.
 40.01 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 6 ins., 14 ins. in the ground, on solid rock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 47.30 Wash, 15 lks. wide, course SE. Asc. NE. slope, 305 ft.
 67.45 Spur, brs. SE. Continue asc. to
 70.75 Top of asc. Desc. SW. slope, 40 ft. to
 79.20 Gulch, course SE. Asc. NE. slope, 25 ft. to
 80.03 The cor. of secs. 23, 24, 25 and 26.
 Land, mountainous.
 Soil, rocky, 3rd rate.
 No timber.
 Undergrowth, ocatilla, cacti, palo verde, greasewood and sage brush.
 Mar. 19, 1915: At this cor., I set off 0° 44' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 32' N.

N.0° 1' W., bet. secs. 23 and 24.
 Over mountainous land, through scattering undergrowth.
 .50 Gulch, course SE. Asc. S. slope, 70 ft. to
 3.60 Spur, brs. E. Desc. N. slope, 100 ft. to
 7.60 Gulch, course E. Asc. SE. slope, 40 ft. to
 11.90 Low spur, brs. SE. Desc. NE. slope, 50 ft. to
 17.20 Gulch, course SE. Asc. broken rocky SE. slope, 500 ft. to
 40.00 Top of main ridge, brs. E. and W.
 Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 10 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Mar. 19, 1915.
 Apr. 22, 1915: At 10 hrs. 29 m., a.m., l.m.t., I set off 34° 32 $\frac{1}{2}$ ' N. on the lat. arc; 12° 1' N. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. secs. 23 and 24.
 Thence I continue
 N.0° 1' W., bet. secs. 23 and 24.
 Desc. NE. slope, 425 ft. to
 58.30 Gulch, course NE. Asc. broken SE. slope, 45 ft. to
 64.95 Spur, brs. E. Desc. NE. slope, 210 ft.
 78.00 Spur, ridge, brs. NE. Continue desc. NW. slope to
 80.00 Impracticable to set an iron post at this point. Set a granite stone, 22 X 14 X 8 ins., 17 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 1 notch on E. and 3 notches on S. edge; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, cacti, ocatilla and scattering yucca.

4. Subdivision of T. 14 N., R. 18 W.

Chains.

S. 89° 59' E., on a random line, bet. secs. 13 and 24.

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

80.00 Intersect E. bdy. of Tp., 12 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is a stone, reestablished by J. M. M., as described in Book "A".

Thence I run

S. 89° 56' W., on a true line, bet. secs. 13 and 24.

Over mountainous land, through dense undergrowth.

Along broken N. slope.

9.70 Gulch, course NE. Asc. broken E. slope, 260 ft. to

24.40 Spur, brs. N. Desc. W. slope, 85 ft. to

29.20 Gulch, course NW. Asc. NE. slope, 40 ft. to

34.70 Spur, brs. N. Desc. NW. slope, 70 ft. to

39.45 Gulch, course N. Asc. E. slope, 25 ft.

40.00 Impracticable to set an iron post at this point. Set a granite stone, 18 X 14 X 6 ins., 14 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Apr. 22, 1915: At this cor., I set off 12° 2 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 33' N.

43.00 Spur, slopes N. Desc. NW. slope, 85 ft. to

49.35 Wash, 20 lks. wide, course N. Asc. SE. slope, 85 ft. to

61.60 Low spur, brs. NE. Thence along N. slope.

69.25 Gulch, course NE. Asc. broken E. slope, 65 ft. to

79.70 Spur, brs. NE.

80.00 The cor. of secs. 13, 14, 23 and 24.

Land, mountainous.

Soil, rocky, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, palo verde, cacti, ocatilla and scattering yucca.

Apr. 22, 1915.

Apr. 23, 1915.

N. 0° 1' W., bet. secs. 13 and 14.

Over mountainous land, through dense undergrowth.

Along rocky W. slope.

20.00 Desc. NW. slope, 95 ft. to

21.40 Wash, 20 lks. wide, course NE. Continue desc.

34.40 Gulch, course E. Asc. S. slope, 175 ft.

40.00 Impracticable to set an iron post at this point. Set a granite stone, 15 X 10 X 8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Apr. 23, 1915: At this cor., I set off 12° 22 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 33 $\frac{1}{2}$ ' N.

42.50 Ridge, brs. NE. and SW. Desc. NW. slope, 175 ft. to

63.45 Wash, 80 lks. wide, course NE.

69.20 Gulch, course E. Asc. SE. slope, 130 ft. to

80.00 Point of spur, brs. E.

Impracticable to set an iron post at this point. Set a granite stone, 24 X 8 X 8 ins., 18 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 1 notch on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, palo verde, ocatilla and cacti.

Apr. 23, 1915.

Chains.

Apr. 25, 1915: At 8 hrs. 3 m., a.m., l.m.t., I set off 34° 34' N. on the lat. arc; 12° 59½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14.

Thence I run N.89° 56' E., on a random line, bet. secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect E. bdy. of Tp., 35 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is a stone, established by J. M. M., as described in Book "A".

Thence I run S.89° 41½' W., on a true line, bet. secs. 12 and 13.

Over rolling land, through dense undergrowth.

15.45 Gulch, course NE.

39.97 Impracticable to set an iron post, at this point. Set a granite stone, 15 X 12 X 8 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

40.04 Gulch, course NE.

60.25 Wash, 80 lks. wide, course NE. Leave rolling land, brs. NW. and SE. Thence over mountainous land. Asc. point of spur, brs. E., to

79.94 The cor. of secs. 11, 12, 13 and 14. Land, rolling and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, cacti and yucca.

N.0° 1' W., bet. secs. 11 and 12.

Over mountainous land, through dense undergrowth.

Desc. broken NE. slope, 140 ft. to

12.15 Gulch, course NE. Asc. SE. slope, 60 ft. to

15.65 Spur, brs. E. Desc. NE. slope, 80 ft. to

21.00 Gulch, course E. Asc. SE. slope, 65 ft. to

28.35 Spur, brs. E. Desc. NE. slope, 170 ft.

40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

45.00 Gulch, course NE. Leave mountainous land, brs. NW. and SE. Thence over rolling land.

80.00 Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 8 ins., 14 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 1 notch on E. and 5 notches on S. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, 45 chs. mountainous; 35 chs. rolling. Soil, rocky, 4th rate. No timber. Undergrowth, palo verde, greasewood and yucca.

N.89° 41' E., on a random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

79.95 Intersect E. bdy. of Tp., 5 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is a stone, established by J. M. M., as described in Book "A".

Thence I run S.89° 43' W., on a true line, bet. secs. 1 and 12.

Over rolling land, through dense undergrowth.

24.45 Gulch, 20 ft. deep, course N.

39.97½ Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 10 ins., 14 ins. in the ground,

6. Subdivision of T. 14 N., R. 18 W.

Chains.	for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
79.95	The cor. of secs. 1, 2, 11 and 12. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, cacti and yucca.
40.00	N. 0° 1' W., on a random line, bet. secs. 1 and 2. Set temp. $\frac{1}{4}$ sec. cor.
80.35	Intersect N. bdy. of Tp., 21 lks. E. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, established by me, as described in Book "A". Thence I run S. 0° 10' E., on a true line, bet. secs. 1 and 2. Over rolling land, through dense undergrowth.
40.35	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ in N., S1 in E., and S2 in W. half; dig pits, 18 X 18 X 12 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.
46.15	Wash, 50 lks. wide, course NE.
79.65	Wash, 25 lks. wide, course NE.
80.35	The cor. of secs. 1, 2, 11 and 12. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, cacti and yucca. Apr. 25, 1915.
	Mar. 18, 1915: From the point for cor. of secs. 2, 3, 34 and 35, 30 lks. N. $89^{\circ} 59'$ E. of W. cor. to cor. of secs. 2, 3, 34 and 35, which is a stone, established by me, as described in Book "A"., I run N. 0° 1' W., bet. secs. 34 and 35. Asc. along beside and in bed of gulch, course S., through scattering undergrowth, 415 ft., over mountainous land.
15.00	Leave gulch, comes from NE. Continue asc;
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ in N., S35 in E. and S34 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
60.20	Spur, slopes SW. Asc. SW. slope.
70.10	Same spur, slopes SE. Asc. SE. slope.
75.00	Same spur, slopes SW. Desc. NW. slope, 20 ft. to
80.00	Impracticable to set an iron post at this point. Set a granite stone, 14 X 12 X 6 ins., 10 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, cacti, and sage brush.

Chains.

N.89° 59' E., on a random line, bet. secs. 26 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.01 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 25, 26, 35 and 36.
 Thence I run
 N.89° 54' W., on a true line, bet. secs. 26 and 35.
 Over rolling land, through scattering undergrowth.
 .50 Low spur, brs. SE. Desc. W. slope, 30 ft. to
 4.50 Wash, 15 lks. wide, course SE. Asc. broken NE. slope, 40 ft. to
 14.00 Low spur, slopes SE. Desc. SW. slope, 30 ft. to
 17.95 Gulch, course SE. Asc. broken NE. slope, 50 ft. to
 27.40 Low spur, slopes SE? Desc. W. slope, 35 ft. to
 29.85 Gulch, course SE. Asc. E. slope, 20 ft. to
 30.80 Low spur, slopes SE. Desc. W. slope, 25 ft. to
 32.25 Wash, 15 lks. wide, course SE. Asc. NE. slope, 65 ft. to
 35.25 Spur, slopes SE. Thence along S. slope.
 39.70 Gulch, course S.
 40.00 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 S26 in N.,
 S35 in S. and
 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 Asc. broken NE. slope, 65 ft. to
 52.30 Divide between Williams and Colorado Rivers, brs. NW. and SE. Desc. SW. slope, 30 ft. to
 54.85 Head of gulch, course SE. Asc. SE. slope, 85 ft. to
 62.00 Spur, slopes S. Desc. NW. slope, 135 ft. to
 69.00 Wash, 25 lks. wide, course SW. Asc. E. slope, 175 ft. to
 77.15 Spur, slopes SW. Desc. NW. slope, 70 ft. to
 80.01 The cor. of secs. 26, 27, 34 and 35.
 Land, mountainous.
 Soil, rocky, decomposed granite; 3rd rate.
 No timber.
 Undergrowth, greasewood, sage brush, cacti, palo verde and ocatilla.
 Mar. 18, 1915.

Mar. 20, 1915: At 8 hrs. 4 m., a.m., l.m.t., I set off 34° 31 $\frac{1}{2}$ ' N. on the lat. arc; 0° 23 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35.

Thence I run
 N.0° 1' W., bet. secs. 26 and 27.
 Over mountainous land, through scattering undergrowth.
 Asc. SW. slope, 120 ft. to
 8.20 Ridge, brs. SE. Desc. N. slope, 95 ft. to
 14.30 Draw, 15 lks. wide, course SE. Asc. S. slope, 185 ft. to
 25.50 Ridge, brs. NW. and SE. Desc. NE. slope, 100 ft. to
 36.00 Gulch, 10 lks. wide, course SE. Asc. SW. slope, 105 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 5 ins., 12 ins. in the ground, on solid rock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 41.70 Spur, brs. SE. Desc. NE. slope, 105 ft. to
 47.20 Gulch, 15 lks. wide, course SE. Asc. SW. slope, 230 ft. to
 61.20 Spur, brs. W. Desc. NW. slope, 45 ft. to
 75.50 Gulch, course W. Asc. SW. slope, 25 ft. to
 80.00 Impracticable to set an iron post at this point. Set a granite stone, 12 X 12 X 8 ins., 9 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

8. Subdivision of T. 14 N., R. 18 W.

Chains.	Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, ocatilla, cacti, palo verde, greasewood and sage brush.
40.00	S. 89° 54' E., on a random line, bet. secs. 23 and 26. Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line, 14 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence I run West on a true line, bet. secs. 23 and 26. Over mountainous land, through scattering undergrowth. Asc. NE. slope, 135 ft. to
9.20	Spur, brs. SE. Desc. SW. slope, 40 ft. to
23.00	Gulch, course SE. Asc. NE. slope, 355 ft. to
39.60	Ridge, slopes N. from rocky butte.
40.07	Point for $\frac{1}{4}$ sec. cor. falls on rotten granite ledge. I return to
40.00	On a rock in place, 6 X 3 X 2 ft. above ground, I cut a cross (X) for witness cor. to $\frac{1}{4}$ sec. cor., and chisel WC $\frac{1}{4}$ on rock, N. of cross; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
51.40	Desc. W. slope, 280 ft. to Gulch, 10 lks. wide, course S. Asc. broken SE. slope, 235 ft. to
64.45	Ridge, brs. N. and S. Desc. NW. slope, 170 ft. to
75.75	Gulch, course SW. Asc. SE. slope, to
80.14	The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde and ocatilla. Mar. 20, 1915: At this cor., I set off 0° 20 $\frac{1}{2}$ ' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 32' N.
32.83	N. 0° 1' W., bet. secs. 22 and 23. Over mountainous land, through scattering undergrowth. Asc. broken SW. slope, 725 ft. to Main ridge of Chemehuevis Mts., brs. E. and W. A. S. Mar. 20, 1915.
40.00	Apr. 23, 1915: J. M. M. Continue N. 0° 1' W., bet. secs. 22 and 23. Desc. NE. slope, 575 ft. Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 14 ins., on a rock ledge, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.15	Spur, brs. NE. Desc. broken NW. slope.
60.55	Head of gulch, course NE.
67.55	Spur, brs. NE. Desc. NE. slope, to
80.00	Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 2 notches on E. and 3 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, shallow, rocky, decomposed granite and sandstone,

Chains.

4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 Apr. 23, 1915: At this cor., I set off $12^{\circ} 22\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 33'$ N.
 J. M. M.

A.S.
 At 9 hrs. 4 m., a.m., l.m.t., I set off $34^{\circ} 33'$ N. on the lat. arc; $12^{\circ} 20'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23.
 Thence I run
 East, on a random line, bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 13, 14, 23 and 24.
 Thence I run
 S. $89^{\circ} 54'$ W., on a true line, bet. secs. 14 and 23.
 Over mountainous land, through dense undergrowth.
 Along broken N. slope.
 22.30 Wash, 15 lks. wide, course NE. Asc. broken SE. slope, 240 ft. to
 37.60 Spur, ridge, brs. NE. Thence along N. slope.
 40.02 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 41.80 Same ridge, brs. SE. and NW. Thence along S. slope.
 47.00 Same ridge, brs. NE. and SW. Desc. NW. slope, 105 ft.
 54.30 Gulch, course N. Asc. NE. slope, 50 ft. to
 64.75 Spur, brs. N. Desc. SW. slope, 130 ft. to
 72.05 Gulch, course N. Asc. NE. slope, 55 ft. to
 76.00 Low spur, brs. N. Desc. NW. slope, 40 ft. to
 78.90 Gulch, course N. Asc. NE. slope, 50 ft. to
 80.05 The cor. of secs. 14, 15, 22 and 23.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, cacti and ocatilla.
 A. S.

J.M. M.
 N. $0^{\circ} 1'$ W., bet. secs. 14 and 15.
 Over mountainous land, through scattering undergrowth.
 Desc. NE. slope, 145 ft. to
 14.80 Wash, 15 lks. wide, course NE. Asc. broken SW. slope, 215 ft. to
 25.70 Spur, brs. E. Desc. NE. slope, 135 ft. to
 33.90 Gulch, course E.; asc. broken SE. slope, 355 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 58.20 Spur, ridge, brs. NE. Desc. broken N. slope, 215 ft. to
 73.80 Spur, brs. NE. Desc. broken NW. slope, 165 ft. to
 80.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 2 notches on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

10. Subdivision of T. 14 N., R. 18 W.

Chains.

Land, mountainous.
Soil, shallow, rocky, decomposed granite and sandstone;
4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
J. M. M.

A.. S.
N. 89° 54' E., on a random line, bet. secs. 11 and 14.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.05 Intersect N. and S. line, 2 lks. N. of the cor. of secs.
11, 12, 13 and 14.
Thence I run
S 89° 55' W., on a true line, bet. secs. 11 and 14.
Over mountainous land, through dense undergrowth.
Asc. point of spur, along broken S. slope to
7.00 Desc. SW. slope, 70 ft. to
13.80 Gulch, course S. Asc. SE. slope, 375 ft. to
33.10 Ridge, brs. NE. Thence along broken rocky N. slope.
40.02 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a
granite stone, 16 X 8 X 8 ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound
of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits
impracticable.
Asc. NE. slope, 85 ft. to
48.85 Spur, brs. N. Desc. NW. slope, 105 ft. to
55.30 Head of gulch, course N. Asc. NE. slope, 20 ft. to
61.40 Spur, brs. NW Desc. SW. slope, 175 ft. to
72.00 Gulch, course N. Asc. NE. slope, 70 ft. to
77.75 Spur, brs. N. Desc. NW. slope, 55 ft. to
80.05 The cor. of secs. 10, 11, 14 and 15.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, palo verde, greasewood, cacti and ocatilla.
Apr. 23, 1915.

Apr. 27, 1915: At 8 hrs. 8 m., a.m., 1.m.t., I set off 34°
34' N. on the lat. arc; 13° 38 $\frac{1}{2}$ ' N. on the decl. arc;
and determine a meridian with the solar at the cor. of
secs. 10, 11, 14 and 15.
Thence I run
N. 0° 1' W., bet. secs. 10 and 11.
Over mountainous land, through dense undergrowth.
Desc. NW. slope, 140 ft. to
4.90 Wash, 15 lks. wide, course NE. Asc. SE. slope, 150 ft. to
16.00 Spur, brs. NE. Desc. NW. slope, 370 ft. to
39.50 Wash, 25 lks. wide, course NE. Asc. SE. slope, 90 ft.
40.00 Point for $\frac{1}{4}$ sec. cor. falls on granite rock, 4 X 3 X 3 ft.
above ground, Mark a cross (X) at the exact cor. point,
with $\frac{1}{4}$ to W. of cross, and raise a mound of stone, 2
ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
55.00 Thence along broken rocky E. slope.
72.00 Desc. NE. slope, 75 ft. to
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the
ground, on solid rock, supported by a mound of stone,
for cor. of secs. 2, 3, 10 and 11, marked on brass cap
1915 on S. rim;
T14N R18W in N. half;
S3 in NW.,
S2 in NE.,
S11 in SE., and
S10 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.

Subdivision of T. 14 N., R. 18 W.

11.

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, and cacti.
Mar. 27, 1915.

Apr. 25, 1915.
N.89° 55' E., on a random line, bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.95 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
1, 2, 11 and 12.
Thence I run
S.89° 54' W., on a true line, bet. secs. 2 and 11.
Over rolling land; through dense undergrowth.
.80 Wash, 25 lks. wide, course NE.
34.40 Wash, 20 lks. wide; course NE.
39.97 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a
granite stone, 16 X 12 X 6 ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound
of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits
impracticable.
58.30 Wash, 50 lks. wide, course NE.
65.00 Enter mountainous land, brs. NW. and SE. Asc. broken SE.
slope, 100 ft.
78.50 Gulch, course SE. Asc. E. slope to
79.95 The cor. of secs. 2, 3, 10 and 11.
Land, rolling, and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde and cacti.
Apr. 25, 1915.

Apr. 27, 1915.
N.0° 1' W., on a random line, bet. secs. 2 and 3.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.45 Intersect N. bdy. of Tp., 16 lks. E. of the cor. of secs.
2, 3, 34 and 35, which is an iron post, established by
me, as described in Book "A".
Thence I run
S.0° 8' E., on a true line, bet. secs. 2 and 3.
Over rolling land, through scattering undergrowth.
6.45 Gulch, course NE.
13.25 Gulch, course E.
30.85 Wash, 30 lks. wide, course NE.
40.45 Impracticable to set an iron post at this point. Set a
granite stone, 14 X 10 X 8 ins., 10 ins. in the ground,
on solid rock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.
55.75 Leave rolling land, brs. NW. and SE. Enter mountainous land;
asc. broken NE. slope, 220 ft. to
77.25 Spur, brs. E. Desc. SE. slope, 30 ft. to
79.00 Gulch, course SE.
80.45 The cor. of secs. 2, 3, 10 and 11.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, and cacti.
A. S.
Apr. 27, 1915.

Mar 18, 1915: J. M. M.
From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of

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Subdivision of T. 14 N., R. 18 W.

Chains.

- the Tp., which is an iron post, established by me, as described in Book "A", I run
 N.0° 2' W., bet. secs. 33 and 34.
 Over rolling land, through scattering undergrowth.
- 14.79 Wash, 50 lks. wide, course SW.
 19.90 Leave rolling land, enter mountainous land, brs. NE. and SW. Asc. broken SW. slope, 490 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 53.90 Spur, brs. SE. Desc. NE. slope, 105 ft. to
 60.70 Gulch, course SE. Asc. broken SW. slope, 130 ft. to
 72.40 Spur, brs. SE. Desc. slight NE. slope, to
 77.50 Gulch, course SE. Asc. SE. slope, 80 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap
- 1915 on S. rim;
 T14NR18W in N. half;
 S28 in NW.,
 S27 in NE.,
 S34 in SE. and
 S33 in SW. quadrant;
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous, and rolling.
 Soil, rocky, decomposed lava and granite; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 Mar. 18, 1915.
-
- Mar. 19, 1915: At 8 hrs. a.m., l.m.t., I set off $34^{\circ} 31\frac{1}{2}'$ N. on the lat. arc; $0^{\circ} 47'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.
 Thence I run
 N.89° 59' E., on a random line, bet. secs. 27 and 34.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line, 11 lks. N. of the cor. of secs. 26, 27, 34 and 35.
 Thence I run
 N.89° 56' W., on a true line, bet. secs. 27 and 34.
 Over mountainous land, through dense undergrowth.
 Desc. W. slope to
- 2.50 Gulch, course S. Asc. E. slope, 25 ft. to
 5.90 Spur, brs. S. Desc. broken SW. slope, 75 ft. to
 20.20 Gulch, course SE. Asc. E. slope, 45 ft. to
 23.50 Spur, brs. S. Desc. broken W. slope, 40 ft. to
 34.40 Wash, 20 lks. wide, course S. Asc. E. slope, 50 ft.
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
- 1915 on S. rim;
 S27 in N.,
 S34 in S. and
 $\frac{1}{4}$ in W. half;
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 40.10 Spur, brs. SE. Desc. SW. slope to
 43.60 Wash, 30 lks. wide, course SE. Asc. SE. slope, 75 ft. to
 46.40 Spur, brs. SE. Desc. broken SW. slope, 60 ft. to
 61.50 Wash, 150 lks. wide, course S. Asc. NE. slope, 215 ft.
 73.00 Spur, brs. SE. Continue ascent.
 79.98 The cor. of secs. 27, 28, 33 and 34.
 Land, mountainous.
 Soil, rocky, shallow, decomposed granite and sandstone, 4th rate.

Chains.

No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.

N.0° 2' W., bet. secs. 27 and 28.
Over mountainous land, through dense undergrowth.
Asc. S. slope to

1.00 Spur, brs. SE. Desc. broken NE. slope, 145 ft. to
14.20 Wash, 30 lks. wide, course SE. Asc. broken SW. slope, 150
ft. to

25.00 Desc. NE. slope, 20 ft. to
37.10 Wash, 30 lks. wide, course SE. Asc. broken SW. slope, 540
ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ in N.,
S27 in E. and
S28 in W. half;

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

Mar. 19, 1915: At this cor., I set off 0° 45' S. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is 34° 32' N.

67.50 Divide between Williams and Colorado Rivers, brs. NW. and
SE. Thence along E. slope.

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

1915 on S. rim;
T14 N R18W in N. half;
S21 in NW.,
S22 in NE.,
S27 in SE. and
S28 in SW. quadrant;

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

Land, mountainous.

Soil, shallow, rocky, decomposed granite and lava; 4th
rate.

No timber.

Undergrowth, greasewood, palo verde, ocatilla and cacti.

J. M. M.

Mar. 19, 1915.

Mar. 20, 1915. A. S.

40.00 S. 89° 56' E., on a random line, bet. secs. 22 and 27.
Set temp. $\frac{1}{4}$ sec. cor.

80.13 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
22, 23, 26 and 27.

Thence I run

N.89° 59' W., on a true line, bet. secs. 22 and 27.
Over mountainous land, through dense undergrowth.

1.30 Desc. SW. slope, 25 ft. to
17.90 Wash, 10 lks. wide, course S. Asc. SE. slope, 225 ft. to
Spur, brs. S. Desc. W. slope, 75 ft. to

21.50 Wash, 10 lks. wide, course SE. Asc. broken SE. slope, 275
ft. to

31.85 Ridge, brs. N. and S. Desc. SW. slope, 130 ft. to

38.30 Wash, course SE. Asc. NE. slope, 90 ft.

40.06 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a
granite stone, 18 X 10 X 8 ins., 14 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits
impracticable.

41.30 Spur, brs. S. Desc. broken SW. slope, 110 ft. to

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Subdivision of T. 14 N., R. 18 W.

Chains.

52.00 Wash, course SE. Asc. NE. slope, 90 ft. to
 58.10 Ridge, brs. N. and S. Desc. SW. slope, 145 ft. to
 64.70 Wash, 10 lks. wide, course SE. Asc. NE. slope, 125 ft. to
 73.65 Spur, slopes SE. Desc. SW. slope, 40 ft. to
 80.13 The cor. of secs. 21, 22, 27 and 28.

Land, mountainous.

Soil, rocky, decomposed granite; 4th rate.

No timber.

Undergrowth, palo verde, ocatilla, greasewood, sage brush
and cacti.

A. S.

Mar. 20, 1915.

Apr. 22, 1915: J..M. M.

At 1 hr. 10 m., p.m., l.m.t., I set off $34^{\circ} 32'$ N. on the
 lat. arc; $12^{\circ} 3'$ N. on the decl. arc; and determine a
 meridian with the solar at the cor. of secs. 21, 22,
 27 and 28.

Thence I run

N. $0^{\circ} 2'$ W., bet. secs. 21 and 22.

Over mountainous land, through dense undergrowth.

Asc. broken S. slope, 140 ft. to

5.40 Spur, brs. SE. Thence along E. slope.

10.00 Asc. SE. slope, 190 ft. to

37.80 Main ridge of Chemehuevis Mts., brs. NW. and SE. High
point of ridge, brs. NW. about 25 chs. dist. Desc.
broken NE. slope, 460 ft.40.00 Impracticable to set an iron post at this point. Set a
granite stone, 24 X 10 X 8 ins., 16 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits
impracticable.

61.20 Gulch, course NE. Asc. broken SE. slope, 270 ft. to

71.30 Spur, brs. NE. Desc. broken N. slope, 260 ft. to

80.00 Impracticable to set an iron post at this point. Set a
granite stone, 18 X 12 X 8 ins., 12 ins. in the ground,
for cor. of secs. 15, 16, 21 and 22, marked with 3
notches on S. and E. edges; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky, decomposed granite and sandstone, 3rd and 4th
rate.

No timber.

Undergrowth, greasewood, palo verde, ocatilla and cacti.

Apr. 22, 1915.

Apr. 23, 1915: At 8 hrs. 54 m., a.m., l.m.t., I set off
 $34^{\circ} 33'$ N. on the lat. arc; $12^{\circ} 20'$ N. on the decl. arc;
 and determine a meridian with the solar at the cor. of
 secs. 15, 16, 21 and 22.

Thence I run

S. $89^{\circ} 59'$ E., on a random line, bet. secs. 15 and 22.40.00 Set temp. $\frac{1}{4}$ sec. cor.79.92 Intersect N. and S. line, 5 lks. N. of the cor. of secs.
14, 15, 22 and 23.

Thence I run

N. $89^{\circ} 57'$ W., on a true line, bet. secs. 15 and 22.

Over mountainous land, through scattering undergrowth.

Asc. broken SE. slope, 105 ft. to

6.30 Point of spur, brs. NE. Desc. broken NW. slope, 110 ft. to

25.10 Wash, 40 lks. wide, course NE. Joins other wash about 10
chs. NE. Asc. SE. slope, 525 ft.

33.50 Point of spur, brs. NE. Asc. NE. slope.

39.96 Impracticable to set an iron post at this point. Set a

Chains

79.92 granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Continue to asc. NE. slope to
The cor. of secs. 15, 16, 21 and 22.
Land, mountainous.
Soil, shallow, rocky, decomposed granite and sandstone; 3rd and 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
Apr. 23, 1915.

Apr. 25, 1915: At 9 hrs. 28 m., a.m., l.m.t., I set off $34^{\circ} 33'$ N. on the lat. arc; $13^{\circ} 00'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run
N. $0^{\circ} 2'$ W., bet. secs. 15 and 16.
Over mountainous land, through dense undergrowth.
Desc. NE. slope, 240 ft. to
20.20 Gulch, course E. Asc. broken S. slope, 305 ft. to
35.70 Spur, brs. NE. Desc. broken N. slope, 305 ft.
40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

51.20 Head of gulch, course NE. Asc. SE. slope, 65 ft. to
56.40 Point of spur, brs. E. Desc. broken NE. slope, 115 ft. to
61.40 Head of gulch, course E. Asc. broken SE. slope, 270 ft. to
71.90 Spur, brs. NE. Desc. broken NW. slope, 180 ft. to
80.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 10 ins., 12 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 3 notches on E. and 4 notches on S edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
Soil, shallow, rocky, decomposed granite and sandstone; 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
Apr. 25, 1915.

Apr. 23, 1915.
S. $89^{\circ} 57'$ E., on a random line, bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 10, 11, 14 and 15.

Thence I run
N. $89^{\circ} 59'$ W., on a true line, bet. secs. 10 and 15.
Over mountainous land, through dense undergrowth.
Desc. broken NW. slope, 90 ft. to
4.80 Gulch, course NE. Asc. broken SE. slope, 515 ft. to
29.50 Spur, brs. NE. Desc. broken NW. slope, 360 ft.
40.05 Impracticable to set an iron post at this point. Set a granite stone, 14 X 10 X 8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

43.00 Gulch, course NE. Asc. broken NE. slope, 450 ft. to
73.90 Spur, brs. N. Peak brs. N. about 23 chs. dist. Desc. broken NW. slope, 100 ft. to
80.10 The cor. of secs. 9, 10, 15 and 16.

16. Subdivision of T. 14 N., R. 18 W. 16.

Chains
 Land, mountainous.
 Soil, shallow, rocky, decomposed granite and sandstone; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 J. M.M.
 Apr. 23, 1915.

Apr. 28, 1915: A. S.
 At 8 hrs. 4 m., a.m., l.m.t., I set off 34° 34' N. on the lat. arc; 13° 57 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.
 Thence I run
 N.0° 2' W., bet. secs. 9 and 10.
 Over mountainous land, through dense undergrowth.
 Desc. NW. slope, 145 ft. to
 9.30 Gulch, course NW. Asc. broken rocky SW. slope, 260 ft., over small cliffs and slides, to
 20.60 Spur, brs. W. Thence along W. slope.
 23.00 High, rocky peak brs. E. about 5 chs. dist.
 29.90 Spur, brs. NW. Desc. broken NW. slope, 545 ft., over small cliffs and slides.
 38.85 Top of cliff, brs. NW. and SE.
 39.40 Foot of cliff, 50 ft. high, brs. NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ in N.,
 S10 in E. and
 S9 in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 48.90 Gulch, course NW. Asc. broken SW. slope, 230 ft. to
 69.80 Spur, brs. W. Desc. broken NW. slope, 255 ft. to
 78.60 Gulch, course NW. Asc. slight SW. slope to
 80.00 Point for cor. of secs. 3, 4, 9 and 10, falls on granite boulder, 4 X 3 X 3 ft. above ground. At the true point for cor., mark a cross(X), with 3 grooves to E., and 5 grooves to S. of same; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and broken.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, palo verde, greasewood, cacti and yucca.
 Apr. 28, 1915: At this cor., I set off 14° 00' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 35' N.
 Apr. 28, 1915.

Apr. 27, 1915.
 S.89° 59' E., on a random line, bet. secs. 3 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 2, 3, 10 and 11.
 Thence I run
 West on a true line, bet. secs. 3 and 10.
 Over mountainous land, through dense undergrowth.
 Asc. NE. slope, 310 ft.
 18.60 Gulch, course NE. Asc. SE. slope.
 21.25 Spur, brs. NE. Thence along N. slope.
 26.15 Spur, brs. NW. Desc. SW. slope, 275 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 18 X 8X6 ins., 14 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of

Chains.	<p>stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p> <p>40.85 Gulch, course NE. Asc. E. slope, 610 ft. to</p> <p>63.10 Ridge, brs. N. and S. Rocky butte, brs. N. about 5 chs. dist. Rocky butte, brs. S. about 18 chs. dist. Desc. SW. slope, 455 ft. to</p> <p>80.00 The cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. Apr. 27, 1915.</p>
40.00 80.50 19.50 40.50 70.20 80.50	<p>Apr. 30, 1915: At 8 hrs. 28 m., a.m., l.m.t., I set off 34°35' N. on the lat. arc; 14° 35' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10. Thence I run N.0° 2' W., on a random line, bet. secs. 3 and 4.</p> <p>Set temp. ¼ sec. cor.</p> <p>Intersect N. bdy. of Tp., 40 lks. E. of the cor. of secs. 3, 4, 33 and 34, which is an iron post, established by me, as described in Book "A". Thence I run S.0° 19' E., on a true line, bet. secs. 3 and 4. Over rolling land, through dense undergrowth.</p> <p>Road, brs. NE. and SW.</p> <p>Impracticable to set an iron post at this point. Set a granite stone, 18 X 12 X 10 ins., 14 ins. in the ground, on bed rock, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>Leave rolling land, brs. NW. and SE. Enter mountainous land, brs. NW. and SE. Asc. NW. slope, 380 ft. to</p> <p>Rocky spur, brs. W. Desc. SW. slope, 85 ft. to</p> <p>The cor. of secs. 3, 4, 9 and 10. Land, rolling and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde and cacti. A. S. Apr. 30, 1915.</p>
11.40 17.00 20.00 35.80 40.00	<p>Mar. 18, 1915: J. M. M. At 8 hrs. a.m., l.m.t., I set off 34° 30½' N. on the lat. arc; 1° 11' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is an iron post, established by me, as described in Book "A". Thence I run N.0° 2' W., bet. secs. 32 and 33. Over mountainous land, through dense undergrowth. Asc. in and along beside wash, course S.</p> <p>Leave wash, comes from NW. Asc. SW. slope, 135 ft. to</p> <p>Top of knoll. Desc. NW. slope, 25 ft. to</p> <p>Asc. SW. slope, 90 ft. to</p> <p>Spur, brs. SE. Desc. broken NE. slope, 25 ft.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼ in N., S33 in E., and S32 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high,</p>

18. Subdivision of T. 14 N., R. 18 W.

Chains.	W. of cor. Pits impracticable.
49.20	Wash, 50 lks. wide, course SE. Asc. broken SW slope, 270 ft. to
59.20	Spur, brs. SE. Thence along E. slope
72.80	Leave top of spur, brs. NW. and S. Thence along broken E. slope.
79.90	Head of gulch, course SE. Asc. S. slope,
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, on solid rock, supported by a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap
	1915 on S. rim; T14N R18W in N. half; S29 in NW., S28 in NE., S33 in SE. and S32 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, shallow, rocky, decomposed granite and sandstone; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti.
40.00	N. 89° 59' E., on a random line, bet. secs. 28 and 33. Set temp. ¼ sec. cor.
80.20	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 27, 28, 33 and 34. Thence I run S. 89° 55' W., on a true line, bet. secs. 28 and 33. Over mountainous land, through dense undergrowth. Desc. SW. slope to
3.00	Head of gulch, course SE. Asc. broken SE. slope, 125 ft. to
8.70	Spur, brs. SE. Desc. SW. slope, 55 ft. to
15.90	Gulch, course SE. Asc. E. slope, 185 ft. to
25.20	Spur, brs. SE. Desc. slight SW. slope to
31.20	Head of gulch, course SE. Asc. SE. slope, 100 ft. to
37.70	Spur, brs. S. Highest point in spur, brs. N. about 3 chs. dist. Desc. broken SW. slope, 365 ft.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; S28 in N., S33 in S. and ¼ in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
57.10	Wash, 40 lks. wide, course S. Asc. SE. slope, 220 ft. to
69.80	Spur, brs. S. Desc. SW. slope, 50 ft. to
80.20	The cor. of secs. 28, 29, 32 and 33. Land, mountainous. Soil, shallow, rocky, decomposed granite, sandstone and lava; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. Mar 18, 1915: At this cor., I set off 1° 8' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 31½' N. Mar. 18, 1915.

Subdivision of T. 14 N., R. 18 W.

19.

Chains

Mar. 20, 1915: At 8 hrs. 5 m., a.m., l.m.t., I set off 34° 31½' N. on the lat. arc; 0° 23½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33.

Thence I run

N. 0° 2' W., bet. secs. 28 and 29.

Over mountainous land, through dense undergrowth.

Asc. broken S. slope, 380 ft. to

15.00 Spur, brs. SE. Desc. broken NE. slope, 250 ft. to

31.40 Gulch, course E. Asc. broken SE. slope, 485 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap

1915 on S. rim;

¼ in N.,

S28 in E. and

S29 in W. half;

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

65.10 Spur, brs. SW. Desc. NW. slope, 125 ft. to

78.00 Gulch, course W. Asc. S. slope, 55 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, marked on brass cap

1915 on S. rim;

T14N R18W in N. half;

S20 in NW.,

S21 in NE.,

S28 in SE. and

S29 in SW. quadrant;

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

Land, mountainous.

Soil, shallow, rocky, decomposed granite and sandstone; 4th rate.

No timber.

Undergrowth, greasewood, palo verde, ocatilla and cacti.

Mar. 20, 1915.

Mar. 19, 1915.

N. 89° 55' E., on a random line, bet. secs. 21 and 28.

40.00 Set temp. ¼ sec. cor.

80.12 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 21, 22, 27 and 28.

Thence I run

West on a true line, bet. secs. 21 and 28.

Over mountainous land, through dense undergrowth.

Asc. SE. slope, 95 ft. to

4.80 Divide between Williams and Colorado Rivers, brs. NW. and SE. Desc. W. slope, 135 ft. to

10.50 Gulch, course S. Asc. broken SE. slope, 185 ft. to

34.00 Spur, brs. S. Desc. broken SW. slope, 430 ft.

40.06 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, on solid rock, supported by a mound of stone, for ¼ sec. cor., marked on brass cap

1915 on S. rim;

S21 in N.,

S28 in S. and

¼ in W. half;

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

53.80 Wash, 20 lks. wide, course SE. Pack trail in wash, brs. NW. and SE. Asc. broken SE. slope, 310 ft.

54.00 A well brs. S. about 8 chs. dist.

Tank brs. S. about 10 chs. dist.

71.50 Spur, brs. SE. Desc. broken SW. slope, 210 ft. to

20. Subdivision of T. 14 N., R. 18 W.

Chains.	
80.12	The cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, shallow, rocky, decomposed granite, sandstone and lava; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. Mar. 19, 1915.
	Apr. 25, 1915. N.0° 2' W., bet. secs. 20 and 21. Over mountainous land, through scattering undergrowth. Desc. NW. slope, 55 ft. to
11.70	Head of gulch, course SW. Asc. broken SW. slope, 310 ft.
29.25	Mouth of tunnel 150 ft. deep on line.
31.70	Pack trail, brs. NE. and SW.
34.00	Shaft of Arizona Copper Co.'s Mine brs. E. about 280 lks. dist.
37.90	Saddle in spur, brs. NW. and SE. Thence along E. slope.
40.00	Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Asc. SE. slope, 410 ft.
55.80	Pack trail, brs. NE. and SW.
64.10	Spur, brs. SW. Thence along W. slope to
66.00	Asc. broken SW. slope, 60 ft. to
74.00	Main ridge of Chemehuevis Mts., brs. NW. and SE. Desc. NE. slope, 130 ft. to
80.00	Impracticable to set an iron post at this point. Set a granite stone, 18 X 11 X 9 ins., 12 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 4 notches on E. and 3 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, shallow, rocky; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti.
	East on a random line, bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 15, 16, 21 and 22. Thence I run N.89° 56' W., on a true line, bet. secs. 16 and 21. Over mountainous line, through dense undergrowth. Asc. broken NE. slope, 210 ft. to
34.20	Head of gulch, course NE. Continue to asc. broken SE. slope 230 ft.
40.03	Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Apr. 25, 1915: At this point, I set off 13° 2' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 33' N.
45.80	Spur, brs. NE. Joins. main ridge about 10 chs. SW. Thence along broken N. slope.
64.80	Spur, brs. NE. Joins. main ridge about 5 chs. SW. Desc. W. slope, 180 ft.
65.20	Pack trail, brs. NE. and SW.
73.60	Head of gulch, course NW. Asc. broken NE. slope, 70 ft. to

Chains. 80.06	<p>The cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, shallow, rocky, decomposed granite; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. J. M. M. Apr. 25, 1915.</p>
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	<p>Apr. 29, 1915: A. S. Cloudy. Run back and foresight line. N.0° 2' W., bet. secs. 16 and 17. Over mountainous land, through dense undergrowth. Desc, NE. slope, 150 ft. to</p>
6.00	Gulch, course NW. Asc. SW. slope, 75 ft. to
10.75	Ridge, brs. NW. and SE. Desc. broken NE. slope, 110 ft. to
20.00	Thence along E. slope.
22.10	Same ridge, brs. NE. and SW. Desc. NW. slope, 140 ft. to
35.20	Gulch, course NE. Asc. SE. slope.
40.00	Impracticable to set an iron post at this point. Set a granite stone, 15 X 12 X 6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.15	Spur, brs. E. Desc. broken NE. slope, 280 ft. to
55.40	Gulch, course E. Thence along E. slope.
59.10	Wash, 20 lks. wide, course NW. Asc. slight SW. slope to
73.60	Spur, brs. W. Desc. NW. slope, 90 ft. to
80.00	Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 12 ins. in the ground, on solid rock, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	<p>Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde and cacti. Apr. 29, 1915.</p>
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	<p>Apr. 28, 1915. S. 89° 56' E., on a random line, bet. secs. 9 and 16.</p>
40.00	Set temp $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 21 lks. N. of the cor. of secs. 9, 10, 15 and 16. Thence I run
	N. 89° 47' W., on a true line, bet. secs. 9 and 16. Over mountainous land, through dense undergrowth. Desc, NW. slope, 55 ft. to
4.60	Gulch, course N. Asc. NE. slope, 190 ft. to
22.60	Spur, brs. NW. Desc. SW. slope, 420 ft. to
35.20	Gulch, course N. Asc. NE. slope, 245 ft.
40.00	Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 5 ins., 12 ins. in the ground, on bed rock, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
48.00	Ridge, brs. N. and S. Desc. NW. slope, 20 ft. to
50.00	Thence along N. slope
53.30	Spur, brs. NW. Desc. W. slope, 140 ft. to
61.45	Gulch, course N. Asc. NE. slope, 100 ft.
65.70	Pack trail, brs. N. and S.
67.15	Spur, brs. N. Desc. NW. slope, 50 ft. to
69.70	Gulch, course N. Asc. NE. slope, 165 ft. to
78.40	Spur ridge, brs. N. Desc. NW. slope, 50 ft. to
80.00	The cor. of secs. 8, 9, 16 and 17. Land, mountainous.

22.

Subdivision of T. 14 N., R. 18 W.

Chains.

Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
Apr. 28, 1915.

Apr. 29, 1915.
N.0° 2' W., bet. secs. 8 and 9.
Over mountainous land, through dense undergrowth.
Asc. SW.slope, 65 ft. to

- 3.80 Spur, brs. NW. Desc. N. slope, 345 ft. to
- 20.00 Wash, 30 lks. wide, course NE. Asc. SE. slope.
- 20.70 Point of spur, brs. NE. Desc. N. slope to
- 22.50 Wash, 40 lks. wide, course E. Trail in wash, brs. E. and W. Asc. S. slope, 420 ft. to
- 38.00 Ridge, brs. E. and W. Desc. broken NE. slope, 235 ft.
- 40.00 Impracticable to set an iron post at this point. Set a granite stone, 15 X 8 X 8 ins., 12 ins. in the ground, on bed rock; for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 48.90 Gulch, course NE. Asc. S. slope, 35 ft. to
- 51.00 Spur, brs. NE. Desc. N. slope, 85 ft. to
- 56.10 Gulch, course E. Asc. SE. slope, 35 ft. to
- 59.10 Point of spur, brs. E. Desc. NE. slope, 35 ft. to
- 60.70 Gulch, course SE. Asc. SW. slope, 85 ft. to
- 64.10 Spur, brs. SE. Thence along E. slope.
- 73.90 Asc. broken SE. slope, 145 ft. to
- 80.00 Point for cor. of secs. 4, 5, 8 and 9 falls on granite ledge, 5 X 3 X $1\frac{1}{2}$ ft. above ground. At the exact point for cor., mark a cross (X) with 4 grooves E. and 5 grooves S. of same; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, palo verde, greasewood and cacti.
Apr. 29, 1915.

Apr. 30, 1915.
S.89° 47' E., on a random line, bet. secs. 4 and 9.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.07 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 3, 4, 9 and 10.
Thence I run
N.89° 50' W., on a true line, bet. secs. 4 and 9.
Over mountainous land, through dense undergrowth.
Desc. SW. slope, 45 ft. to
- 1.35 Gulch, course NW. Thence along N. slope.
- 10.00 Desc. NW. slope, 205 ft. to
- 22.45 Wash, 1 ch. wide, course NE.
- 24.75 Road, brs. NE. and SW. Asc. NE. slope, 130 ft. to
- 30.00 Rocky spur, brs. SE. Thence along S. slope.
- 36.90 Gulch, course SE. Well about 25 chs. S. Asc. NE. slope, 430 ft.
- 40.03 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Asc. SE. slope.
- 55.50 Ridge, brs. NE. and SW. Thence along N. slope.
- 65.20 Asc. NE. slope, 165 ft. to
- 68.60 Same ridge, brs. NW. and SE. Desc. SW. slope, 45 ft. to
- 78.50 Gulch, course SE Asc. E. slope, 50 ft. to
- 80.07 The cor. of secs. 4, 5, 8 and 9.

Chains.

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and cacti.
 Apr. 30, 1915: At this cor., I set off $14^{\circ} 37\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 35'$ N.
 Apr. 30, 1915.

Apr. 29, 1915.
 N. $0^{\circ} 3'$ W., on a random line, bet. secs. 4 and 5.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.39 Intersect N. bdy. of Tp., 31 lks. E. of the cor. of secs. 4, 5, 32 and 33, which is a stone, established by me, as described in Book "A".
 Thence I run
 S. $0^{\circ} 16'$ E., on a true line, bet. secs. 4 and 5.
 Over mountainous land, through dense undergrowth.
 Along broken E. slope.
 10.50 Enter wash, course NE. Comes from S.
 13.60 Leave wash, comes from SE. Asc. NE. slope 150 ft. to
 19.60 Rocky spur, brs. E. Desc. SE. slope, 60 ft. to
 25.20 Gulch, course NE. Asc. broken, rocky NW. slope, 765 ft.
 40.39 Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 8 ins., 4 ins. in the ground, on bed rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 58.10 Head of gulch, course NW.
 66.20 Ridge, brs. NE. and SW. Thence along E. slope of rocky butte.
 71.20 Same ridge, brs. NW. and SE. Desc. SW. slope, 250 ft. to
 77.80 Head of gulch, course SE.
 80.39 The cor. of secs. 4, 5, 8 and 9.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and cacti.
 A. S.
 Apr. 29, 1915.

Mar. 20, 1915: J. M. M.
 From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is a stone, established by me, as described in Book "A", I run
 N. $0^{\circ} 3'$ W., bet. secs. 31 and 32.
 Over mountainous land, through dense undergrowth.
 Along broken W. slope.
 4.55 Point of spur, brs. NW. Desc. N. slope, 30 ft. to
 6.15 Enter wash, comes from N., course SW.
 10.55 Leave wash, comes from NE. Asc. S. slope, 140 ft.
 13.00 Asc. SW. slope to
 16.65 Spur, brs. SE. Desc. NE. slope, 50 ft. to
 19.45 Enter wash, comes from N., course SE.
 28.75 Leave wash, course S.; comes from NE. Asc. SE. slope, 40 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 14 X 12 X 10 ins., 10 ins. in the ground, on solid rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Desc. NE. slope to
 41.95 Wash, course SE. Thence along broken E. slope.
 45.85 Gulch, course SE. Asc. broken SW. slope, 410 ft.

Chains.	
68.95	Point of spur, brs. SE. Continue to asc. SE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap
	1915 on S. rim;
	T14N R18W in N. half;
	S30 in NW.,
	S29 in NE.,
	S32 in SE. and
	S31 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Undergrowth, greasewood, palo verde, ocatilla and cacti.
40.00	N. $89^{\circ} 59'$ E., on a random line, bet. secs. 29 and 32.
80.18	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run
	N. $89^{\circ} 57'$ W., on a true line, bet. secs. 29 and 32.
	Over mountainous land, through dense undergrowth.
	Asc. broken SE. slope, 70 ft. to
2.80	Spur, brs. SE. Desc. broken SW. slope, 165 ft. to
14.90	Gulch, course S. Asc. broken SE. slope, 140 ft. to
27.20	Spur, brs. SW. Desc. broken SW. slope, 255 ft.
40.09	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1915 on S. rim;
	S29 in N.,
	S32 in S. and
	$\frac{1}{4}$ in W. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.00	Wash, 150 lks. wide, course S. Asc. E. slope, 60 ft.
45.40	Point of spur, brs. S. Desc. SW. slope, 60 ft. to
49.80	Wash, 30 lks. wide, course SE. Asc. broken NE. slope, 345 ft. to
66.50	Spur, brs. SE. Desc. broken SW. slope, 120 ft. to
73.80	Head of gulch, course SW. Asc. broken SE. slope, 45 ft. to
80.18	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, shallow, rocky, decomposed granite, sandstone, and lava; 4th rate.
	No timber.
	Undergrowth, greasewood, palo verde, ocatilla and cacti.
	Mar. 20, 1915: At this cor., I set off $0^{\circ} 20\frac{1}{2}'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 31\frac{1}{2}'$ N.
	Mar. 20, 1915.
	Mar. 21, 1915. At 9 hrs. 3 m., a.m., l.m.t., I set off $34^{\circ} 31\frac{1}{2}'$ N. on the lat. arc; $0^{\circ} \frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.
	Thence I run
	S. $89^{\circ} 59'$ W., on a random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.35	Intersect W. bdy. of Tp., 4 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is a stone, established by me, as described in Book "A".
	Thence I run
	S. $89^{\circ} 59'$ E., on a true line, bet. secs. 30 and 31.
	Over mountainous land, along S. slope, through dense under-

Chains.

growth.
 20.05 Spur, brs. SE. Desc. broken NE. slope, 120 ft. to
 29.15 Wash, 60 lks. wide, course SE. Asc. W. slope, 120 ft. to
 36.95 Point of spur, brs. SW. Desc. SE. slope, 75 ft. to
 39.35 Impracticable to set an iron post at this point. Set a
 granite stone, 14 X 10 X 8 ins., 10 ins. in the ground,
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a
 mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
 40.25 Wash, 40 lks. wide, course SW. Asc. broken W. slope,
 280 ft. to
 52.55 Spur, brs. SW. Desc. SE. slope, 75 ft. to
 55.25 Head of gulch, course S. Thence along broken S. slope.
 58.85 Point of spur, brs. S. Desc. broken SE. slope, 145 ft. to
 64.55 Gulch, course S. Asc. W. slope, 55 ft. to
 67.65 Point of spur, brs. S. Desc. SE. slope, 40 ft. to
 70.85 Gulch, course SW. Asc. NW. slope, 120 ft. to
 78.75 Spur, brs. SW. Desc. SE. slope, to
 79.35 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, shallow, rocky, decomposed granite and lava; 4th
 rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.

N.0° 31' W., bet. secs. 29 and 30.
 Over mountainous land, through dense undergrowth.
 Asc. broken SE. slope to
 .80 Spur, brs. SW. Asc. broken SW. slope, 125 ft. to
 8.90 Spur, brs. SE. Desc. broken NE. slope, 80 ft. to
 24.20 Gulch, course E. Asc. broken SE. slope, 90 ft. to
 34.50 Point of spur, brs. E. Desc. NE. slope, 80 ft. to
 40.00 Wash, 20 lks. wide, course SE. I return to
 39.90 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass
 cap
 1915 on S. rim;
 WC N. of center;
 $\frac{1}{4}$ in N.,
 S29 in E. and
 S30 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Asc. broken SE. slope, 265 ft. to
 54.50 Spur, brs. SW. Thence along W. slope.
 55.50 Asc. broken SW. slope, 175 ft. to
 62.10 Spur, brs. SE. Desc. broken NE. slope, 85 ft. to
 67.90 Gulch, course SE. Asc. S. slope, 160 ft. to
 73.25 Spur, brs. SE. Desc. broken NE. slope, 180 ft. to
 79.50 Gulch, course NE. Asc. NE. slope to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
 ground, for cor. of secs. 19, 20, 29 and 30, marked on
 brass cap
 1915 on S. rim;
 T14N R18W in N. half;
 S19 in NW.,
 S20 in NE.,
 S29 in SE. and
 S30 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, shallow, decomposed granite and lava; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 Mar. 21, 1915: At this cor., I set off 0° 3 $\frac{1}{2}$ ' N. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 32' N.

Chains.

S. $89^{\circ} 57' E.$, on a random line bet. secs. 20 and 29.

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

80.20 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Thence I run West, on a true line, bet. secs. 20 and 29. Over mountainous land, through scattering undergrowth. Desc. SW. slope, 180 ft. to

10.20 Thence along S. slope.

14.80 Point of spur, brs. SW. Desc. NW. slope, 115 ft. to

20.00 Wash, 20 lks. wide, course SW. Asc. SE. slope, 65 ft. to

22.90 Trail, brs. NE. and SW.

23.00 Point of spur, brs. S. Desc. SW. slope, 90 ft. to

25.70 Wash, 60 lks. wide, course SE. Asc. NE. slope, 200 ft. to

30.30 Spur, brs. SE. Asc. SE. slope, to

40.10 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S., rim;
S20 in N. and
S29 in S. and
 $\frac{1}{4}$ in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

40.20 Spur, brs. NE. Asc. NE. slope, 190 ft. to

57.00 Stamp Mill on Lost Dutchman Mine brs. N. $10^{\circ} 30' W.$ about 14 chs. dist.

57.70 Spur, brs. SE. Desc. broken SW. slope, 105 ft. to

67.40 Wash, 20 lks. wide, course SE. Asc. NE. slope, 175 ft. to

75.00 Thence along N. slope.

79.50 Gulch, course NE. Asc. NE. slope to

80.20 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.

N. $89^{\circ} 59' W.$, on a random line, bet. secs. 19 and 30.

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

79.51 Intersect W. bdy. of Tp., at the cor. of secs. 19, 24, 25 and 30, which is a stone, established by me, as described in Book "A"

Thence I run S. $89^{\circ} 59' E.$, on a true line, bet. secs. 19 and 30. Over mountainous land, through dense undergrowth. Asc. broken NW. slope, 130 ft. to

3.50 Spur, brs. SW. Desc. broken SE. slope, 310 ft. to

34.50 Gulch, course SW. Small spring brs. N. in this gulch, about 1 ch. dist.

38.70 Asc. broken W. slope, 405 ft. Pack trail, brs. NE. and SW.

39.51 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

59.50 Spur, brs. SE. Desc. broken NE. slope, 590 ft. to

79.51 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
Mar. 21, 1915.

Apr. 26, 1915. At 8 hrs. 4 m., a.m., l.m.t., I set off $34^{\circ} 32' N.$ on the lat. arc; $13^{\circ} 19' N.$ on the decl. arc;

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Chains.

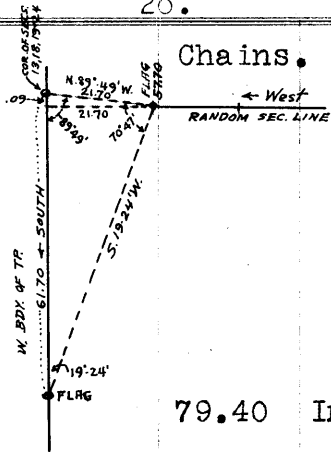
and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
 Thence I run
 N.0° 3' W., bet. secs. 19 and 20.
 Over mountainous land, through dense undergrowth.
 Desc. NE. slope, 50 ft. to
 12.20 Gulch, course SE. Asc. SW. slope, 145 ft.
 14.60 Pack trail, brs. E. and W.
 18.80 Spur, brs. SE. Desc. NE. slope, 125 ft. to
 35.30 Wash, 50 lks. wide, course SE. Pack trail in wash, brs. NW. and SE. Asc. SW. slope, 95 ft. to
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 8 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Desc. NW. slope, 25 ft. to
 42.80 Running spring in bottom of same wash, course SW. Pack trail in wash, brs. NE. and SW. Thence along E. slope.
 45.00 Same wash, course SE. Pack trail in wash, brs. NW. and SE. Asc. SW. slope, 640 ft. to
 80.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 5 notches on E. and 3 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, shallow, rocky, decomposed granite; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.

40.00 East on a random line, bet. secs. 17 and 20.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.17 Intersect N. and S. line, 21 lks. S. of the cor. of secs. 16, 17, 20 and 21.
 Thence I run
 S.89° 51' W., on a true line, bet. secs. 17 and 20.
 Over mountainous land, through dense undergrowth.
 Asc. NE. slope, 170 ft.
 15.35 Pack trail, brs. NW. and SE.
 23.75 Main ridge of the Chemehuevis Mts., brs. NW. and SE. Desc. SW. slope, 35 ft. to
 25.75 Asc. SE. slope, 120 ft. to
 37.25 Spur, brs. S. Desc. SW. slope, 80 ft.
 40.08 $\frac{1}{2}$ Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 9 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 51.75 Head of gulch, course SE. Asc. broken NE. slope, 470 ft. to
 63.07 Spur, brs. SE. Desc. broken SW. slope, 110 ft. to
 80.17 The cor. of secs. 17, 18, 19 and 20.
 Land, mountainous.
 Soil, shallow, rocky, decomposed granite; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 Apr. 26, 1915: At this cor., I set off 13° 22' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 33' N.

40.00 N. West ' . . . , on a random line, bet. secs. 18 and 19.
 Set temp. $\frac{1}{4}$ sec. cor.
 57.70 Impracticable to chain this line beyond this point. In order to determine my falling, I set my flagman at the cor. of secs. 13, 18, 19 and 24, which is visible from this point, and brs. N. 89° 49' W. The vertical angle of depression to the cor. is 25°. A flag on the top of a bet 24 secs. 19 and 24,

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Chains.

- 61.70 chs. S. of the cor. of secs. 13, 18, 19 and 24, brs. S. $19^{\circ} 24'$ W. I leave a flag on my random line, at the 57.70 ch. point, which from the point 61.70 chs. S. of the cor. of secs. 13, 18, 19 and 24, brs. N. $19^{\circ} 24'$ E. I compute the distance from my 57.70 ch. point to the W. bdy. by the sine proportion as follows:-
- $$\frac{\sin. 19^{\circ} 24'}{\sin. 70^{\circ} 47'} \times 61.70 = 21.70 \text{ chs.}, \text{ which}$$
- added to 57.70 chs., makes the entire distance
- 79.40 Intersect the W. bdy. of the Tp., 9 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is a stone, established by me, as described in Book "A".
- Thence I run
- S. $89^{\circ} 56'$ E., on a true line, bet. secs. 18 and 19. Over mountainous land, through dense undergrowth.
- Asc. NW. slope, 610 ft. to
- 21.80 Spur, brs. S. Desc. broken SE. slope, 815 ft.
- 28.30 Pack trail, brs. NW. and SE.
- 33.20 Head of gulch, course SE.
- 39.40 Impracticable to set an iron post at this point. Set a granite stone, 16 X 12 X 9 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 66.80 Pack trail, brs. NE. and SW.
- 74.60 Foot of desc.; gulch, course S. Asc. SW. slope, 160 ft. to
- 79.40 The cor. of secs, 17, 18, 19 and 20.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde, ocatilla and cacti.
-
- N. $0^{\circ} 3'$ W., bet. secs. 17 and 18.
Over mountainous land, through dense undergrowth.
Asc. broken SW. slope, 150 ft. to
- 9.90 Main ridge of the Chemehuevis Mts., brs. NW. and SE.
Apr. 26, 1915.
- May 1, 1915: At 9 hrs. 28 m., a.m., l.m.t., I set off $34^{\circ} 33'$ N. on the lat. arc; $14^{\circ} 53'$ N. on the decl. arc; and determine a meridian with the solar at this point.
- Thence I continue
- N. $0^{\circ} 3'$ W., bet. secs. 17 and 18.
Desc. broken N. slope, 425 ft. to
- 28.90 Gulch, course NE. Asc. SE. slope, 85 ft. to
- 36.30 Spur, brs. NE. Desc. NW. slope, 115 ft. to
- 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- Asc. broken SE. slope, 25 ft. to
- 50.50 Spur, brs. NE. Desc. broken NW. slope, 345 ft.
- 68.30 Pack trail, brs. NW. and SE.
- 77.80 Gulch, course NE. Pack trail in gulch, brs. NE. and SW.
Small spring in this gulch, brs. NE. about 20 chs. dist.
Asc. SE. slope, 70 ft. to
- 80.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 5 notches on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- Land, mountainous.
Soil, shallow, rocky, 4th rate.

Subdivision of T. 14 N., R. 18 W.

Chains	Timber, scattering pinion pine on S. half of mile. Undergrowth, greasewood, palo verde, ocatilla and cacti.
40.00	N.89° 51' E., on a random line, bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 28 lks. N. of the cor. of secs. 8, 9, 16 and 17. Thence I run N.89° 57' W., on a true line, bet. secs. 8 and 17. Over mountainous land, through dense undergrowth. Desc. SW. slope, 100 ft. to 2.45 Wash, course NW. Asc. SE. slope, 280 ft.
10.40	Point of spur, brs. NE. Thence along top of spur, comes from W.
19.70	Leave spur, comes from SW. Thence along N. slope.
20.75	Asc. NE. slope, to
28.30	Ridge, brs. N. Desc. NW. slope, 110 ft. to
38.30	Gulch, course N. Asc. NE. slope, 185 ft.
40.05	Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
49.90	Spur, brs. NW. Desc. W. slope, 110 ft. to
55.70	Gulch, course N. Asc. SE. slope, 165 ft. to
64.90	Spur, brs. NE. Desc. NW. slope, 80 ft. to
70.80	Gulch, course NE. Pack trail in gulch, brs. NE. and SW. Asc. SE. slope, 135 ft. to
80.10	The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, shallow, rocky, decomposed granite; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. May 1, 1915: At this cor., I set off 14° 56' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 34' N.
40.00	N.89° 56' W., on a random line, bet. sec. 7 and 18. Set a temp. $\frac{1}{4}$ sec. cor.
79.23	Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is a stone, established by me, as described in Book "A". Thence I run S.89° 53' E., on a true line, bet. secs. 7 and 18. Over mountainous land, through dense undergrowth. Desc. NE. slope, 200 ft.
6.10	Pack trail, brs. N. and S.
8.20	Gulch, course N. Thence along broken N. slope.
19.50	Gulch, course NW. Asc. broken SW. slope, 230 ft.
28.90	Spur, brs. NW. Thence along N. slope.
29.10	Pack trail, brs. NW. and SE.
31.50	Asc. NW. slope, 235 ft.
39.23	Impracticable to set iron post at this point. Set a granite stone, 16 X 12 X 10 ins., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
39.80	Spur, ridge, brs. NE. Highest point in spur brs. SW. about 6 chs. dist. Desc. broken SE. slope, 540 ft.
73.20	Pack trail, brs. NE. and SW.
79.23	The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, shallow, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde, ocatilla and cacti. May 1, 1915.

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Subdivision of T. 14 N., R. 18 W.

Chains.

May 3, 1915: At 9 hrs. 4 m., a.m., l.m.t., I set off 34° $34'$ N. on the lat. arc; $15^{\circ} 30'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence I run
 $N.0^{\circ} 3'$ W., bet. secs. 7 and 8.
 Over mountainous land, through dense undergrowth.
 Asc. broken SE. slope, 380 ft. to
 33.20 Ridge, brs. NE. and SW. Desc. broken NW. slope, 550 ft.
 40.00 Impracticable to set an iron post at this point. Set a granite stone, 16 X 9 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

80.00 Impracticable to set an iron post at this point. Set a granite stone, 14 X 12 X 10 ins., 11 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on E. and S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
 Soil, shallow, rocky, decomposed granite; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 J. M. M.
 May 3, 1915.

Apr. 30, 1915: A. S.
 $S.89^{\circ} 57'$ E., on a random line, bet. secs. 5 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line, 16 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence I run
 $S.89^{\circ} 56'$ W., on a true line, bet. secs. 5 and 8.
 Over mountainous land, through dense undergrowth.
 Asc. SE. slope, 320 ft. to
 14.25 Ridge, brs. NE. and SW. Desc. NW. slope, 175 ft. to
 23.40 Head of gulch, course NW. Thence along N. slope.
 28.90 Spur, brs. NW. Desc. SW. slope, 140 ft.
 40.04 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

40.40 Gulch, course NW. Asc. NE. slope, 95 ft. to
 48.15 Spur, brs. NW. Desc. W. slope, 115 ft. to
 51.85 Gulch, course NW. Asc. NE. slope, 130 ft. to
 56.00 Spur, brs. N. Desc. NW. slope, 85 ft. to
 58.80 Gulch, course N. Asc. NE. slope, 100 ft. to
 64.30 Spur, brs. NE. Thence along N. slope.
 67.00 Desc. NW. slope, 45 ft. to
 69.10 Gulch, course NE. Asc. SE. slope, 225 ft. to
 78.80 Ridge, brs. N. and S. Desc. NW. slope, to
 80.08 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.
 A. S.
 Apr. 30, 1915.

May 3, 1915: J. M. M.
 $N.89^{\circ} 53'$ W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.18 Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs.

Chains.

1, 6, 7 and 12, which is a stone, established by me, as described in Book "A".
 Thence I run
 S.89° 57' E., on a true line, bet. secs. 6 and 7.
 Over mountainous land, through dense undergrowth.
 Asc. broken SW. slope, 134 ft. to
 11.60 Spur, brs. NE. Desc. SE. slope, 285 ft.
 27.00 Desc. NE. slope.
 39.18 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.30 Wash, 70 lks. wide, course N. Wagon road to Scott's Well follows this wash. Asc. broken W. slope, 455 ft. to
 57.80 Spur ridge, brs. NE. Desc. E. slope, 270 ft. to
 70.10 Wash, 30 lks. wide, course NE. Asc. NW. slope, 170 ft. to
 79.18 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, shallow, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.

N.0° 3' W., on a random line, bet. secs. 5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.30 Intersect N. bdy. of Tp., 37 lks. E. of the cor. of secs. 5, 6, 31 and 32, which is a stone, established by me, as described in Book "A".
 Thence I run
 S.0° 19' E., on a true line, bet. secs. 5 and 6.
 Over mountainous land, through dense undergrowth.
 Asc. N. slope to
 .80 Spur, brs. NE. Desc. SE. slope, 20 ft. to
 5.00 Asc. broken NE. slope, 260 ft. to
 24.20 Spur, slopes NE. Desc. SE. slope, 120 ft.
 40.30 Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 42.90 Wash, 30 lks. wide, course NE. Asc. NW. slope, 370 ft.
 80.30 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, shallow, rocky, decomposed granite; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocatilla and cacti.

J. M. M.
 May 3, 1915.

GENERAL DESCRIPTION.

The land in this Tp. is very rough and mountainous; the main Chemehuevis Range occupies the principal portion of the Tp. The soil is very rocky and is not suitable for agricultural purposes. There are numerous indications of mineral in the western portion of the Tp., where considerable mineral work has been done. The scattering timber consists principally of pinion pine, and has no commercial value. The Williams-Colorado Water Shed passes through this Tp.

66
32
BOOK 2857

For Certificate of U.S. Surveyor and U.S. Transitman
see page II, book "B" of this Group

FINAL OATH OF UNITED STATES SURVEYOR.

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, Ariz., April 10 _____, 1917.

The foregoing field notes of the survey of the Subdivision Lines of

Township 14 North, Range 18 West,

of the Gila and Salt River Base and Meridian,
in the State of Arizona

executed by Albert Smith, Jr., U. S. Surveyor, & J. M. McKinney, Jr., U. S. Transitman under ~~his~~ special instructions dated December 23, 1914 for Group 42, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank P. Roth
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.~~