

Subdivisions

BOOK 2938

FIELD NOTES

OF THE SURVEY OF ~~THE~~

the SUBDIVISION LINES and

MEANDERS of LEFT BANK of COLORADO RIVER

within

Township 13 North, Range 19 West.

2938

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

Deane J. Wolff, U.S. Transitman

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~~In the capacity of U.S. Surveyor~~, under instructions dated December 28, 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 April 1, 1915.

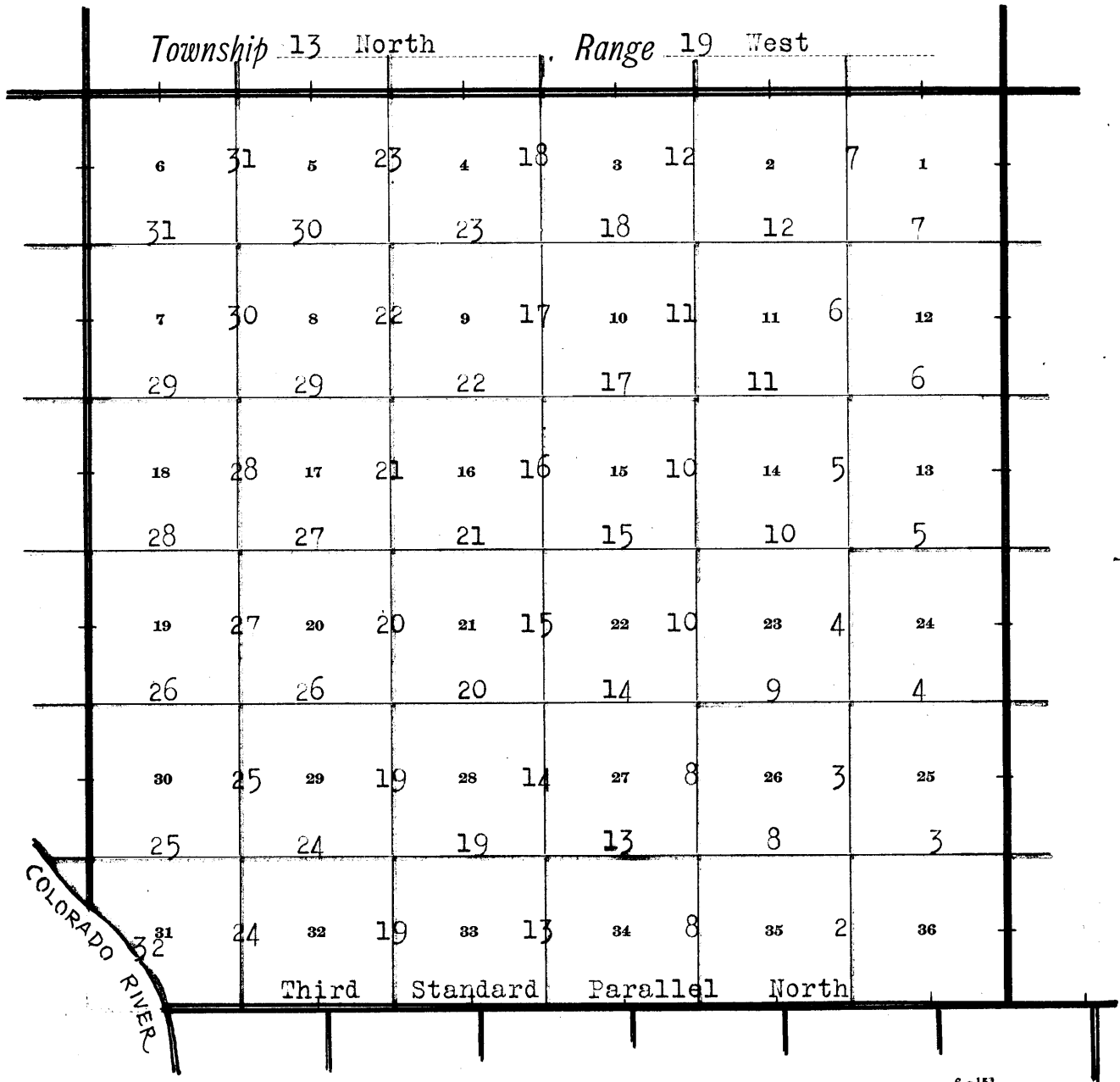
Survey completed January 21, 1916.

68
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Book "F"
Group 42, Arizona
(Subdivisions)

BOOK 2988

INDEX DIAGRAM.



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- Township & Standard Lines. Notes in Book "A" and Meander
- Subdivision lines surveyed under this Group.
- Lines surveyed under Group 48.

Subdivision of Section 1 T. 13 N. R. 19 W.

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Chains

Survey commenced Mar. 31, 1915, and executed jointly by Albert Smith Jr., U. S. Surveyor, J. M. McKinney Jr., U. S. Transitman, and D. J. Wolff, U. S. Transitman, with Young and Sons light mountain transits, Nos. 8540, 8483, 8583, and 8396, with Smith solar attachments. The horizontal limbs of the instruments are provided with two double verniers, placed opposite to each other, and reading to single minutes of arc; which is also the least count of the verniers of the declination arcs.

Transits Nos. 8540 and 8583 were used by Albert Smith Jr. U. S. Surveyor. Transits Nos 8483 and 8396 were used by J. M. McKinney, U. S. Transitman and D. J. Wolff U. S. Transitman, respectively.

For certificate of approval of instruments 8540 and 8483 see book "A". Instruments 8583 and 8396 were approved Nov. 29, 1915, by the Assistant Supervisor of Surveys for Arizona and California, subject to satisfactory field performance.

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

Test of instruments 8540 and 8483:

We examine the adjustments of the transits and find them satisfactory. Then to test the solars, by comparing their indications, resulting from solar observations, made during a. m. and p. m. hours, with a meridian established by observation on Polaris, we proceed as follows:

At 5 h. 0 m., p.m., l.m.t., at camp in sec. 34, T. 13 N. R. 19 W., in lat. $34^{\circ} 26' N.$, long. $114^{\circ} 14' 15'' W.$ we set off $34^{\circ} 26' N.$ on the lat. arc, $4^{\circ} 05' N.$ on the decl. arcs, and determine meridians with our solars, and mark points in the lines thus determined, on pegs driven the ground, 5 chs. N. of our stations.

At 6 h. 51.4 m. p.m., l.m.t., we observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark points in the lines thus determined, on pegs driven in the ground 5 chs. N. of our stations.

Mar. 31, 1915.

Apr. 1, 1915: At 6 h. 50 m. a.m., l.m.t., we lay off the azimuth of Polaris $1^{\circ} 23' 5$ to the right. The meridians thus determined, coincide with the line obtained by solar observation last evening.

At 7 h. 10 m., a.m., l.m.t., we set off $34^{\circ} 26' N.$ on the lat. arcs, $4^{\circ} 18.5 N.$ on the decl. arcs, and determine meridians with the solars. Each meridian thus determined, coincides with the meridian established by Polaris observation. We therefore conclude that the instruments are in satisfactory adjustment.

Mean Mag. decl. N $15^{\circ} E.$

A. S. and J. M. M.

Test of instruments 8583 and 8396 :-

Jan. 13, 1916. At our camp in sec. 27, T. 14 N. R. 19 W. in lat. $34^{\circ} 31.5 N.$, long. $114^{\circ} 14' 15'' W.$, at 0 h. 00:6 m., a.m.; l.m.t., we observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark points in the lines thus determined on pegs driven in the ground 5.00 chs. N. of our stations.

At 8. h. 0 m., a.m., l.m.t., we lay off the azimuth of

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Polaris, $1^{\circ} 22'$ to the right, and mark the meridian thus determined on pegs driven in the ground 5.00 chs. N. of our stations.

At 8 h. 0 m., l.m.t., we set off $34^{\circ} 31' 5''$ N. on the lat. arcs, $21^{\circ} 34'$ S. on the decl. arcs and determine meridians with our solars, and mark points in the lines thus determined on the pegs already driven 5.00 chs. N. of our stations.

The meridians thus determined agree within $30''$ of arc with the meridian established by Polaris observation.

At 3 h. 0 m., l.m.t., we set off $34^{\circ} 31' 5''$ N. on the lat. arcs, $21^{\circ} 33'$ S. on the decl. arcs, and mark points in the meridians thus determined on the pegs already driven 5.00 chs. N. of our stations.

The meridians thus determined agree within $45''$ of arc with the meridian established by Polaris observation. We therefore conclude that the adjustments our instruments are satisfactory.

A.S. and D.J.W.

Jan. 13, 1916.

A. S. Apr. 2, 1915.

At 8 h. 30 m., a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc, $4^{\circ} 42'$ N. on the decl. arc, and determine a meridian with the solar at the Std. cor. of secs. 35 and 36, on the S. bdy of the Tp., which is an iron post, established by J. M. M. as described in Book "A".

Thence I run

N. $0^{\circ} 01'$ W. bet. secs. 35 and 36.

Over rolling mountainous land, through scattering undergrowth.

Desc. N. slope 25 ft. to

19.30 Wash, 50 lks. wide, course SW. asc. SW. slope 125 ft. to

33.30 Low hill, bears NE. and SW. desc. NW. slope 60 ft. to

39.75 Wash, 25 lks, wide, course SW.

40.00 Set an iron post, 3ft. 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.43.00 Wash, 20 lks. wide, course S 50° W. asc. broken SE. slope 125 ft. to

74.85 Low hill, bears to SW. along E. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in ground to bed rock, for the cor. of secs. 25, 26, 35, and 36, marked on brass cap.

1915 on S. rim;

T13N R19W 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 mountainous,

Soil, rocky, 3rd. rate.

Undergrowth, greasewood, palo verde, and ocatilla.

No timber.

East on a random line, bet. secs. 25 and 36.

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

80.07 Intersect the E. bdy of the Tp. 3 lks. N. of the cor.

25, 30, 31, and 36, which is an iron post, established by J. M. M. as described in book "A".

Thence I run

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N. $89^{\circ} 59'$ W. on a true line bet. secs. 25 and 36.
 Over rolling land, through scattering undergrowth.
 20.17 Draw, 5 lks. wide, course SW. asc. E. slope 16 ft. to
 22.00 Low hill, bears N. and S. desc. W. slope 35 ft. to
 31.67 Wash, 20 lks. wide, course S. asc. SE. slope 45 ft. to
 36.07 Low hill, bears N. and S. desc. W. slope 45 ft. to
 37.73 Wash, 15 lks. wide, course SW. asc. SE. slope 20 ft. to
 40.03 $\frac{1}{2}$ 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;
 S.25 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.
 Continue to asc. 65 ft. to
 47.37 Low hill, bears NE. and SW. desc. W. slope 60 ft. to
 52.57 Wash, 15 lks. wide, course SW. asc. E. slope 40 ft. to
 54.47 Low hill, bears N. and S. desc. W. slope 40 ft. to
 56.47 Wash, 25 lks. wide, course S. asc. SE. slope 75 ft. to
 62.17 Low hill, bears N. and S. desc. W. slope 65 ft. to
 65.07 Ravine, course, S. asc. SE. slope 60 ft. to
 69.60 Low hill, bears N. and S. desc. W. slope 30 ft. to
 73.15 Ravine, course S. asc. SE. slope 55 ft. to
 77.00 Crest of low hill, desc. W. slope 30 ft. to
 80.07 The cor. of secs. 25, 26, 35, and 36.
 Land, rolling
 Soil, rocky, 3rd rate.
 Undergrowth, greasewood, palo verde, and cacti.
 No timber.

N. $0^{\circ} 01'$ W. bet. secs. 25 and 26.
 Over rolling land, through scattering undergrowth.
 13.00 Wash, 40 lks. wide, course SW. asc. along SE. slope 50 ft. to
 27.80 Low hill, falls to SW. desc. NW. slope 30 ft. to
 34.90 Enter wash, course SW.
 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.,
 S25 in E., and
 S26 in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high
 W. of cor. Pits impracticable.
 Continue along bed of wash.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam. 24 ins. in
 the ground, for the cor. of secs. 23, 24, 25, and 26,
 marked on brass cap
 1915 on S. rim;
 T13N R19W 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.
 Soil, rocky, 3rd rate.
 Undergrowth, palo verde, ocatillo, greasewood and cacti.
 No timber.
 Apr. 2, 1915. At this cor., I set off $4^{\circ} 45'$ N. on the
 decl. arc; and at apparent noon, I observe the sun
 on the meridian; the resulting lat. is $34^{\circ} 27'$ N.

S. $89^{\circ} 59'$ E. on a random line bet. secs. 24 and 25.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.01 Intersect the E. bdy. of the Tp., 14 lks. S. of the cor.
 secs. 19, 24, 25 and 30, which is an iron post established

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<p>2.40 10.35 17.25 28.00 34.00 40.00 ½</p>	<p>by J. M. M., as described in Book "A". Thence I run S 89° 55' W. on a true line bet. secs. 24 and 25. Over rolling land, through scattering undergrowth. Desc. W. slope 15 ft. to Wash, 30 lks. wide, course SW. asc. E. slope 80 ft. to Low hill, bears N. and S. desc. W. slope 55 ft. to Wash, 20 lks. wide, course S. Wash, 50 lks. wide, course S. asc. E. slope 60 ft. to Low hill, bears NE and SW. desc. W. slope 75 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; S24 in N., S25 in S. and ¼ in W. half; and raise a mound of stone, 2ft. base, 1½ ft. high, N. of cor. Pits impracticable. Wash, 25 lks. wide, course S. asc. 35 ft. to Low hill, bears N. and S. desc. W. slope 55 ft. to Wash, 75 lks. wide, course SW. asc. E. slope 25 ft. to Low hill, falls to S. desc. W. slope 40 ft. to Ravine, course SW. asc. SE. slope 40 ft. to Low hill, falls to SW. desc. SW. slope 65 ft. to Enter wash, course S. The cor. of secs. 23, 24, 25 and 26. Land, rolling. Soil, rocky, 3rd rate. Undergrowth, greasewood, palo verde, and cacti. No timber</p>
<p>44.35 46.80 53.40 56.70 58.60 62.80 70.00 80.01</p>	<p>N. 0° 01' W. bet. secs. 23 and 24. Over rolling land, through scattering undergrowth. Asc. gradually up wash to Leave wash, asc. 34 ft. to Low hill, bears NE and SW. desc. NW. slope 25 ft. to Ravine, course SW. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼ in N., S24 in E. and S23 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. From ¼ cor. asc. 110 ft. to Low hill, bears NE. and SW. desc. NW. slope 90 ft. to Wash, 20 lks. wide, course SW. asc. SE. slope 85 ft. to Low hill, bears NE. and SW. desc. NW. slope, 53 ft. to Wash, 15 lks. wide, course SW. asc. gentle S. slope Set an iron post, 3 ft. long, 2 ins. in diam., 22 ins. in ground to bed rock, for cor. of secs. 13, 14, 23 and 24, marked on brass cap 1915 on S. rim; T13N R19W in N. half; S14 in NW., S13 in NE., S24 in SE., and S23 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land, rolling. Soil, rocky, 3rd rate. Undergrowth, greasewood, palo verde, and cacti. No timber.</p>

April 2, 1915.

Subdivision of Section T. 13 N. R. 19 W. 5.

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Apr. 3, 1915: At 8 h. 0 m., a.m., l.m.t., I set off
 34° 28' N. on the lat. arc., 5° 04.5' N. on the decl.
 arc; and determine a meridian with the solar at the
 cor. of secs. 13, 14, 23 and 24.

Thence I run
 N. 89° 55' E. on a random line bet. secs. 13 and 24.
 Set temp. ¼ sec. cor.
 40.00 Intersect the E. bdy of the Tp., 4 lks. N. of the cor. of
 79.96 secs. 13, 18, 19 and 24, which is an iron post,
 established by J. M. M. as described in Book "A".

Thence I run
 S. 89° 57' W. on a true line bet. secs. 13 and 24.
 Over mountainous land through scattering undergrowth.
 Desc. W. slope 85 ft. to
 5.60 Wash, 20 lks. wide, course SW. asc. SE. slope 120 ft. to
 14.45 Low spur, falls to SW. desc. W. slope 95 ft. to
 22.00 Wash, 20 lks. wide, course SW. asc. SE. slope 120 ft. to
 29.95 Low spur, falls to SW. desc. NW. slope 115 ft. to
 37.70 Enter wash, course SW.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 S13 in N.,
 S24 in S. and
 ¼ in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high
 N. of cor. Pits impracticable.

44.00 Leave wash, asc. E. slope 25 ft. to
 45.00 Low hill, bears N. and S. desc. W. slope 25 ft. to
 45.90 Wash, course SW. asc. broken SE. slope 65 ft. to
 58.80 Low spur, falls to SW. desc. W. slope 50 ft. to
 62.30 Ravine, course SW. asc. SE. slope 20 ft. to
 63.45 Low spur, falls to S. desc. W. slope 35 ft. to
 65.20 Ravine, course SW. asc. SE. slope 40 ft. to
 68.40 Low spur, falls to SW. desc. W. slope 20 ft. to
 70.10 Head of ravine, course SW. along S. slope to
 73.80 Low spur, falls to SW. desc. W. slope 80 ft. to
 79.96 The cor. of secs. 13, 14, 23 and 24.
 Land, mountainous.
 Soil rocky, 3rd rate.
 Undergrowth, greasewood, palo verde, and cacti.
 No timber.

N. 0° 01' W. bet. secs. 13 and 14.
 Over rolling land, through scattering undergrowth .
 Asc. S. slope 55 ft. to
 9.35 Low hill, bears NE. and SW. desc. NW. slope 30 ft. to
 14.70 Ravine, course SW.
 31.10 Wash, 50 lks. wide, course SW.
 40.00 Set an iron post, 3ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼ in N.,
 S13 in E. and
 S14 in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high
 W. of cor. Pits impracticable.

46.20 Enter wash, course SW.
 58.70 Leave wash, course SW.
 70.00 Enter wash, course SW.
 78.00 Leave wash, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for the cor. of secs. 11, 12, 13 and 14.
 marked on brass cap
 1915. on S. rim;
 T13N R19W in N.half;
 S11 in NW.,
 S12 in NE.,
 S13 in SE. and
 S14 in SW. quadrant;

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	<p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>Land rolling.</p> <p>Soil, rocky, 3rd rate.</p> <p>Undergrowth, greasewood, ocatilla, and cacti.</p> <p>No timber.</p>
40.00	N. $89^{\circ} 57'$ E. on a random line bet. secs. 12 and 13.
80.00	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect the E. bdy. of the Tp., at 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. $89^{\circ} 57'$ W. on a true line bet. secs. 12 and 13.
	Over rolling land, through scattering undergrowth.
3.30	Desc. W. slope 35 ft. to Wash, 25 lks. wide, course SW. asc. along broken S. slope 50 ft. to
11.00	Crest of knoll, desc. NW. slope 85 ft. to
17.50	Enter wash, course SW.
25.10	Leave wash, along broken S. slope to
33.75	Crest of knoll, desc. NW. slope 50 ft. to
39.30	Ravine, course SW.
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;
	S12 in N.,
	S13 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	Enter wash, course SW.
50.00	Leave wash, course SW.
55.00	Wash, 2.00 chs. wide, course SW.
71.70	Enter wash, course SW.
78.60	Leave wash, course SW.
80.00	The cor. of secs. 11, 12, 13 and 14.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	Undergrowth, greasewood, palo verde and cacti.
	No timber.
	April 3, 1915.
	Jan. 20, 1916: At 9 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 28\frac{1}{2}'$ N. on the lat. arc, $20^{\circ} 16' 5"$ S. 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. $0^{\circ} 01'$ W. bet. secs. 11 and 12.
	Over rolling land, across deep washes.
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
	1916 on S. rim;
	$\frac{1}{4}$ in N.,
	S12 in E. and
	S11 in W. half;
	and raise a mound of stone. 2 ft. base, $1\frac{1}{2}$ ft. high w. of cor. Pits impracticable.
55.00	wash, 3.00 chs. wide, course S. 10° W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 1, 2, 11, and 12. marked on brass cap
	1916 on S. rim;
	T13N R19W. in N. half;
	S2 in NW.,
	S1 in NE.,
	S12 in SE. and
	S11 in SW. quadrant;

Chains

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high
W. of cor. Pits impracticable.
Land, rolling mountainous.
Soil, rocky, 4th rate.
Undergrowth, greasewood, ocatillo, and cacti.
No timber.

40.00 N. $89^{\circ} 57'$ E. on a random line bet. secs. 1 and 12.
Set temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect the E. bdy. of the Tp., 11 lks. N. of the cor.
of secs. 1, 6, 7 and 12, which is an iron post,
established by J. M. M. as described in "Book "A".
Thence I run
N. $89^{\circ} 58'$ W. on a true line bet, secs. 1 and 12.
Over rolling mountainous land, sharply broken by deep
washes.
15.00 Enter wash, course S.
25.00 Leave wash, course S.
40.06 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
1916 on S. rim;
S1 in N.,
S12 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.
58.20 wash, 50 lks. wide, 70 ft. deep, course SW.
80.12 The cor. of secs. 1, 2, 11 and 12.
Land, rolling mountainous.
Soil, rocky, 4th. rate.
Undergrowth, palo verde, cacti, greasewood and sage.
No timber.
At this cor., at apparent noon, I set off $20^{\circ} 15' 5$ S.
on the decl. arc and observe the sun on the meridian;
the resulting lat. is $34^{\circ} 29'$ N.

40.60 N. $0^{\circ} 01'$ W. on a random line bet. secs. 1 and 2.
Set temp. $\frac{1}{4}$ sec. cor.
79.81 Intersect the N. bdy. of the Tp., 8 lks. E. of the cor.
of secs. 1, 2, 35 and 36, which is a stone established
by J. M. M. as described in Book "A".
Thence I run
S. $0^{\circ} 04'$ E. on a true line bet. secs. 1 and 2.
Over land sharply broken by deep washes.
Desc. broken SW. slope 183 ft. to
15.80 Draw, course SW. asc. NW. slope 20 ft. to
18.00 Spur, falls to W. desc. S. slope 50 ft. to
20.70 Draw, 10 lks. wide, drains W. asc. along W. slope 50 ft. to
30.50 Spur, falls to W. desc. S. slope 96 ft. to
38.10 Wash, 25 lks. wide, course W. asc. N. slope 45 ft. to
39.81 Impracticable to set an iron post at this point. Set a
granite stone, 18 X 12 X 12 ins., 6 ins. in 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.
42.10 Continue to asc. 40 ft. to
48.10 Crest of ridge, bears E. and W. desc. S. slope 70 ft. to
50.60 Draw, drains W., asc. N. slope 32 ft. to
60.50 Ridge, bears E. and W. desc. SE. slope 88 ft. to
72.60 Wash, course SW. asc. NW. slope 60 ft. to
76.10 Spur, falls to NE. along E. slope to
79.81 Desc. 65 ft. to
The cor. of secs. 1, 2, 11 and 12.
Land, rolling mountainous.
Soil, rocky, 4th. rate.
Undergrowth, sage, greasewood, palo verde and ocatillo.
No timber.
A. S. Jan. 20, 1916.

Chains

	J. M. M. Apr. 3, 1915. At 7 h. 30 m., a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc, $5^{\circ} 4' 5''$ N. on the decl. arc, and determine a meridian with the solar at the std. cor. of secs. 34 and 35, on the S. bdy. of the Tp., which is a stone established by J. M. M. as described in Book "A". Thence I run N. $0^{\circ} 01'$ W. bet. secs. 34 and 35. Over mountainous land, through scattering undergrowth. Desc. broken N. slope 110 ft. to 9.40 Wash, 30 lks. wide, course NW. thence over rolling land broken by deep washes. 26.80 Wash, 60 lks. wide, course W. 27.80 Old wagon road, bears NW. and SE. 35.60 Wash, 30 lks. wide, course SW. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, 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. 61.80 Wash, 20 lks. wide, course SW. 75.80 Wash, 20 lks. wide, course SW. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35. marked on brass cap 1915 on S. rim; T13N R19W in N. half; S27 in NW., S26 in NE., S35 in SE. and S34 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 mountainous. Soil, rocky, 4th. rate. No timber.
40.00	East on a random line bet. secs. 26 and 35. Set temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 25, 26, 35 and 36. Thence I run S. $89^{\circ} 56'$ W. on a true line bet. secs. 26 and 35. Over rolling land, through scattering undergrowth. 5.20 Enter wash, course SW. 25.30 Leave wash, course SW. asc. SE. slope 20 ft. to 32.50 Crest of spur, falls to SW. desc. W. slope 32 ft. to 39.98 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in 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. 45.00 Wash, 2.00 chs. wide, course, SW. 63.00 Wash, 30 lks. wide, course, SW. 69.50 Wash, 20 lks. wide, course, SW. 79.97 The cor. of secs. 26, 27, 34 and 35. Land, rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, ocatillo, and cacti. No timber.
	N. $0^{\circ} 01'$ W. bet. secs. 26 and 27.

Chains

7.30
25.50
30.00
40.00

Over rolling hills, through scattering undergrowth.
Enter wash, course SW.
Leave wash, asc. 50 ft. to
Crest of spur, falls to SW. desc. to
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
ground, for $\frac{1}{4}$ sec. cor. marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ in N.,
S26 in E. and
S27 in W. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high
W. of cor. Pits impracticable.
From $\frac{1}{4}$ sec. cor. desc. 30 ft. to
Wash, 50 lks. wide, course SW. asc. S. slope 63 ft. to
50.00 Low hill, bears E. and W. desc. N. slope 46 ft. to
54.80 Wash, 20 lks. wide, course SW. asc. SE. slope 44 ft. to
61.50 Crest of spur, falls to SW. along W. slope to
79.00 Wash, 30 lks. wide, course SW.
80.00 Set an iron post, 3 ft. long 2 ins. diam., 24 ins. in
the ground, for cor. of secs. 22, 23, 26 and 27.
marked on brass cap
1915 on S. rim;
T13N R19W. in N. half;
S22 in NW.,
S23 in NE.,
S26 in SE, and
S27 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. and 4th. rate.
Undergrowth, greasewood, sage and cacti.
No timber.

40.00
79.96

N. $89^{\circ} 56'$ E. on a random line bet. secs. 23 and 26.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 4 lks. N. of the cor. of secs.
23, 24, 25 and 26.
Thence I run
S. $89^{\circ} 58'$ W. on a true line bet. secs. 23 and 26.
Over bottom of wash, course SW.
3.90 Leave wash, asc. 34 ft. to
5.60 Crest of spur, falls to SW. desc. 52 ft. to
26.50 Wash, 50 lks. wide, course SW. asc. 34 ft. to
32.00 Crest of spur, falls to SW. desc. 63 ft. to
38.80 Wash, 50 lks. wide, course SW. asc. 40 ft.
39.98 Set an iron post, 3ft. long, 1 in. diam., 26 ins. in
ground, for $\frac{1}{4}$ sec. cor. marked on brass cap
1915 on S. rim;
S23 in N.,
S26 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.
46.00 Crest of spur, falls to SW. desc. 28 ft. to
51.60 Wash, 60 lks. wide, course SW.
62.60 Wash, 20 lks. wide, course SW. asc. 30 ft. to
65.20 Crest of spur, falls to SW. desc. 60 ft. to
79.30 Wash, 30 lks. wide, course SW.
79.96 The cor. of secs. 22, 23, 26 and 27.
Land, rolling.
Soil. rocky, 4th. rate.
Undergrowth, greasewood, palo verde and cacti.
No timber.
At this cor. I set off $5^{\circ} 08'$ N. on the decl. arc; and
at apparent noon, I observe the sun on the meridian.
The resulting lat. is $34^{\circ} 27'$ N.

Chains	N. 0° 01' W. bet. secs. 22 and 23. Over rolling land, cut by shallow washes. Wash, 3.00 chs. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ in N., S23 in E. and S22 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
15.50	
40.00	
42.20	Wash, 50 lks. wide, course SW. Enter wash, course SW.
73.50	
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in ground, for the cor. of secs. 14, 15, 22 and 23, marked on brass cap 1915 on S. rim; T13N.R19W in N. half; S15 in NW., S14 in NE., S23 in SE. and S22 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, shallow and rocky, 4th. rate. Undergrowth, greasewood, sage and cacti. No timber.
40.00	N. 89° 58' E. on a random line bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 13, 14, 23 and 24. Thence I run N. 89° 58' W. on a true line bet. secs. 14 and 23. Over rolling land, through scattering undergrowth. Desc. along S. slope 20 ft. to Wash, 30 lks. wide, course SW. asc. SE. slope 35 ft. to Low hill, bears N. and S. desc. SW. slope 30 ft. to Ravine, course S. asc. SE. slope 90 ft. to Low hill, bears N. and S. desc. 40 ft. to Ravine, course SW. asc. SE. slope 45 ft. to Low hill, bears NE. and SW. desc. NW. slope 55 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; S14 in N., S23 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. A. S. Apr. 2, 1915.
9.00	
21.15	
23.90	
27.80	
29.70	
36.20	
39.97	
47.50	From $\frac{1}{4}$ sec. cor. desc. 52 ft. to Wash, 1.50 chs. wide, course SW. asc. 47 ft. to Crest of spur, falls to SW. desc. 30 ft. to Wash, 20 lks. wide, course SW. Wash, 40 lks. wide, course SW. East bank of wash, course S.
56.70	
64.20	
71.90	
75.90	
79.94	The cor. of secs. 14, 15, 22 and 23. Land, rolling. Soil, shallow and rocky, 4th. rate. Undergrowth, cacti, sage, and greasewood. No timber. J. M. M. Apr. 3, 1915.
	A. S. Apr. 3, 1915. N. 0° 01' W. bet. secs. 14 and 15. Over rolling land, through scattering undergrowth.

Subdivision of T. 13 N. R. 19 W. 11.

Chains

9.00 Across wash, course S.
 22.75 Leave wash, asc. SE. slope 100 ft. to
 35.30 Low hill, bears NE. and SW. desc. NW. slope 80 ft. to
 40.00 Wash, 15 lks. wide, course SW. asc. SE. slope 68 ft. to
 Impracticable to set an iron post at this point. Set a
 granite stone, 18 X 18 X 10 ins., 14 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.
 45.25 Continue to asc. SE. slope 37 ft. to
 57.00 Low hill, bears NE. and SW. desc. NW. slope 75 ft. to
 70.00 Wash, 5.00 chs. wide, course SW. asc. SE. slope 45 ft. to
 75.00 Low hill, bears NE. and SW., desc. NW. slope 35 ft. to
 80.00 Wash, 2.00 chs. wide, course SW.
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for the cor. of secs. 10, 11, 14 and 15,
 marked on brass cap
 1915 on S. rim;
 T13N R19W in N. half;
 S10 in NW.,
 S11 in NE.,
 S14 in SE. and
 S15 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.
 Undergrowth, palo verde, greasewood, and cacti.
 No timber.

40.00 S. $89^{\circ} 58'$ E. on a random line bet. secs. 11 and 14.
 80.00 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the N. and S. line, 9 lks. S. of the cor. of
 11, 12, 13 and 14.
 Thence I run
 S. $89^{\circ} 58'$ W. on a true line bet. secs. 11 and 14.
 Over rolling land, through scattering undergrowth.
 16.90 Wash, 1.00 ch. wide, course SW.
 33.10 Enter wash, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 S11 in N.,
 S14 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.
 54.60 Leave wash, course SW. asc. E. slope 20 ft. to
 61.50 Low hill, bears NE and SW., desc. W. slope 35 ft. to
 73.00 Wash, 2.00 chs. wide, course SW.
 80.00 The cor. of secs. 10, 11, 14 and 15.
 Land, rolling.
 Soil, rocky, 3rd. rate.
 Undergrowth, greasewood, palo verde, and cacti.
 No timber.

Apr. 3, 1915.

Jan. 19, 1916.
 N. $0^{\circ} 01'$ W. bet. secs. 10 and 11.
 Over land sharply broken by hills and buttes.
 2.00 Enter wash, course SW.
 23.80 Leave wash, course SW.
 33.00 Enter wash, course SW.
 39.00 Leave wash, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in

Chains

ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ in N.,
 S11 in E. and
 S10 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits Impracticable.
 51.00 Enter wash, 3.50chs. wide, course SW.
 54.50 Leave wash, course SW.
 60.50 Wash, 20 lks. wide, course, SW.
 77.50 Wash, 65 ft. deep, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in
 ground to solid rock, 6 ins. in mound of stone, for
 cor. of secs. 2, 3, 10 and 11, marked on brass cap
 1916 on S. rim;
 T13N R19W 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.
 Land rolling mountainous, sharply broken by washes, hills,
 and buttes.
 Soil, rocky shale, 4th. rate.
 Undergrowth, palo verde, greasewood, and ocotillo.
 No timber.

40.00 N. $89^{\circ} 58'$ E. on a random line bet. secs. 2 and 11.
 Set temp. $\frac{1}{4}$ sec. cor.
 Jan. 19, 1916.
 Jan. 20, 1916
 At 8 h. 0 m., a.m., 1.m.t., I set off $34^{\circ} 29' 5''$ N. on the
 lat. arc, $20^{\circ} 15' 5''$ S. on the decl. arc, and determine
 a meridian with the solar at the temp. $\frac{1}{4}$ sec. cor.
 bet. secs. 2 and 11.
 Thence I continue
 80.08 N. $89^{\circ} 58'$ E. on a random line bet. secs. 2 and 11.
 Intersect the N. and S. line, 14 lks. N. of the cor. of
 secs. 1, 2, 11 and 12. Thence I run
 N. $89^{\circ} 56'$ W., on a true line, bet. secs. 2 and 11.
 Over rolling hills, through scattering undergrowth.
 0.20 Spur, bears S. Desc. through scattering undergrowth.
 15.20 Wash, 30 lks. wide, course, S.
 38.00 Wash, 50 lks. wide, course SW.
 40.04 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S2 in N.,
 S11 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 From $\frac{1}{4}$ sec. cor. asc. 32 ft. to
 Crest of ridge, bears NE. and SW., desc. NW. slope 170 ft. to
 65.10 Wash, 15 lks. wide, course NW.
 80.08 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling mountainous.
 Soil, rocky, 4th. rate.
 Undergrowth, ocotillo, cacti, and sage.
 No timber.

40.00 N. $0^{\circ} 01'$ W. on a random line bet. secs. 2 and 3.
 80.03 Set temp. $\frac{1}{4}$ sec. cor.
 Intersects the N. bdy. of the Tp., 7 lks. W. of the cor.
 of Secs. 2, 3, 34 and 35, which is a stone established
 by J. M. M. as described in Book "A".
 Thence I run

Chains	S. 0° 02' W. on a true line bet. secs. 2 and 3. Over rolling mountainous land, sharply broken by hills, buttes and washes.
26.75	Wash, 75 lks. wide, 25 ft. deep, course SW.
40.03	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in ground to bed rock, 16 ins. in mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 On S. rim; $\frac{1}{4}$ in N., S2 in E. and S3 in W. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
47.70	Wash, 80 lks. wide, 30 ft. deep, course SW.
76.60	Wash, 50 lks. wide, course W.
80.03	The cor. of secs. 2, 3, 10 and 11. Land, rolling mountainous. Soil, rocky, 4th. rate. Undergrowth, ocatillo, cacti and sage. No timber.
	A. S. Jan. 20, 1916.
	April 2, 1915. J.M.M. From the Std. cor. of secs. 33 and 34, on S. bdy. of Tp., established by me as described in book "A"
I run	N. 0° 02' W. bet. secs. 33 and 34. Over rolling mountainous land, sharply broken by hills, buttes and washes; through scattering undergrowth. Asc. broken SE. slope 108 ft. to Crest of knoll, desc. broken NE. slope 93 ft. to Head of ravine, course NW., asc. SW. slope 67 ft. to Crest of low butte, desc. broken NW. slope 46 ft. to Ravine, course NW., asc. SW. slope 86 ft. to Crest of spur, falls to W., desc. NW. slope 178 ft. to Point for $\frac{1}{4}$ sec. cor. falls where same would be destroyed. I return to Impracticable to set an iron post at this point. Set a granite stone, 20 X 10 X 8 ins., 12 ins. in ground for witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Continue to desc. 40 ft. to Wash, course W. Wagon road, bears E. and W. asc. SW. slope 80 ft. to Crest of spur, falls to W., desc. NW. slope 60 ft. to Wagon road, bears NE. and SW. Wash, course SW., asc. 52 ft. to Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground for cor. of secs. 27, 28, 33 and 34, marked on brass cap 1915 on S. rim; T13N R19W in N. half; S28 in NW., S27 in NE., S34 in SE. and S33 in SW. quadrant; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling mountainous. Soil, rocky, 4th. rate. Undergrowth, ocatillo, cacti and sage. No timber.
9.50	
16.30	
23.90	
25.80	
31.90	
40.00	
39.84	
40.80	
40.90	
56.60	
67.00	
80.00	

40.00	East on a random line bet. secs. 27 and 34.
79.92	Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line, 10 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.

Chains	Over rolling mountainous land, broken by buttes and washes; through scattering undergrowth.
11.20	Enter wash, course SW.
24.40	Leave wash, course SW.
35.20	Wash, 50 lks. wide, course SW.
39.96	Impracticable to set iron post at this point. Set a granite stone, 18 X 12 X 8 ins., 12 ins. in the ground to 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, N. of cor. Pits impracticable.
58.90	Wash, 5.00 chs. wide, course SW.
79.92	The cor. of secs. 27, 28, 33 and 34. Land, rolling mountainous. Soil, rocky decomposed granite, 4th. rate. Undergrowth, sage, cacti, ocatillo, and greasewood. No timber.
	J. M. M. Apr. 2, 1915.
	Apr. 5, 1915. A. S. At 7 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 26'$ N. on the lat. arc, $5^{\circ} 50'$ N. 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. $0^{\circ} 02'$ W. bet. secs. 27 and 28. Over rolling mountainous land, through scattering undergrowth. Desc. gentle N. slope 20 ft. to 19.50 Wash, 20 lks. wide, course NW. 21.00 Wash, 15 lks. wide, course SW., asc. S. slope 65 ft. to 26.20 Low hill, bears NE. and SW. desc. NW. slope 30 ft. to 30.30 Ravine, course SW., asc. SE. slope 40 ft. to 33.20 Low hill, bears NE. and SW., desc. 15 ft. to 36.00 Ravine, course SW., asc. 55 ft. to 40.00 Low hill, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in 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. From $\frac{1}{4}$ sec. cor. desc. N. slope 25 ft. to 46.00 Wash, 50 lks wide, course SW. 55.00 Enter wash, course SW. 70.90 Leave wash, course, SW. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. secs. 21, 22, 27 and 28, marked on brass cap 1915 on S. rim; T13N R19W. 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, rolling. Soil, rocky, 3rd. and 4th. rate. Undergrowth, sage, greasewood, ocatillo and cacti. No timber.
40.00	S. $89^{\circ} 56'$ E. on a random line bet. secs. 22 and 27.
80.05	Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 22, 23, 26 and 27. Thence I run

Chains

N. 89° 57' W. on a true line bet. secs. 22 and 27.
 Over rolling land, through scattering undergrowth.
 15.00 Enter wash, course SW.
 39.60 Leave wash, course SW.
 40.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 S22 in N.,
 S27 in S. and
 $\frac{1}{4}$ in W. half;
 and raise amount of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 55.50 Wash, 20 lks. wide, course SW.
 75.00 Wash, 4.00 chs. wide, course SW.
 80.05 The cor. of secs. 21, 22, 27 and 28.
 Land, rolling.
 Soil, shallow and rocky, 3rd. rate.
 Undergrowth, greasewood, palo verde and ocatillo.
 No timber.

N. 0° 02' W. bet. secs. 21 and 22.
 Over rolling land, through scattering undergrowth.
 18.00 Ravine, course SW., asc. SE. slope 25 ft. to
 28.00 Low hill, bears NE. and SW., desc. 20 ft. to
 37.00 Wash, 20 lks. wide, course SW.,
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ in N.,
 S22 in E. and
 S21 in W. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 49.75 Wash, 40 lks. wide, 25 ft. deep, course SW.
 53.90 Wash, 60 lks. wide, course SW.
 64.80 Wash, 30 lks. wide, course SW., asc. SE. slope 80 ft. to
 71.70 Low hill, bears NE. and SW., along W. slope
 79.70 Ravine, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
 ground, for the cor. of secs. 15, 16, 21 and 22,
 marked on brass cap
 1915 on S. rim;
 T13N R19W in N. half;
 S16 in NW.,
 S15 in NE.,
 S22 in SE. and
 S21 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, shallow and rocky, 3rd rate.
 Undergrowth, greasewood, paloverde & ocatillo. No timber.

S. 89° 57' E. on a random line bet. secs. 15 and 22.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.15 Intersect the N. and S. line, at the cor. of secs. 14,
 15, 22 and 23.
 Thence I run
 N. 89° 57' W. on a true line bet. secs. 15 and 22.
 Over rolling land, sharply broken by buttes and washes.
 Asc. E. slope 30 ft. to
 6.45 Low hill, bears NE. and SW., desc. NW. slope 50 ft. to
 11.10 Ravine, course SW., asc. SE. slope 50 ft. to
 13.00 Low hill, bears NE. and SW., desc. NW. slope 90 ft. to
 18.20 Ravine, course SW., asc. SE. slope 45 ft. to
 27.15 Low hill, bears N and S., desc. W. slope 50 ft. to
 30.00 Wash, 3.00 chs. wide, course S., asc. SE. slope 45 ft. to
 35.00 Low hill, bears NE. and SW., desc. W. slope 60 ft. to
 40.07 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in

Chains

ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 S15 in N.,
 S22 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.

Continue to desc. W. slope 45 ft. to
 Ravine, course SW., asc. SE. slope 60 ft. to
 41.10 Low hill, bears NE. and SW., desc. 30 ft. to
 45.00 Ravine, course SW., asc. 60 ft. to
 48.00 Low hill, bears N. and S., desc. W. slope 60 ft. to
 50.60 Wash, 20 lks. wide, course SW., asc. SE. slope 40 ft. to
 55.50 Low hill, bears N. and S., desc. W. slope 50 ft. to
 58.65 Wash, 25 lks. wide, course S., asc. 55 ft. to
 62.65 Low hill, bears NE. and SW., desc. 80 ft. to
 65.35 Head of ravine, course SW., asc. SE. slope 15 ft. to
 70.20 Crest of spur, falls to S., desc. NW. slope 40 ft. to
 72.40 Wash, 20 lks. wide, course SW., asc. SE. slope 50 ft. to
 74.70 Low hill, bears NE. and SW., desc. W. slope 35 ft. to
 78.10 Ravine, course SW., asc. to
 79.95 The cor. of secs. 15, 16, 21 and 22.
 80.15

Land, rolling.

Soil, rocky, 3rd. and 4th. rate.

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

N. $0^{\circ} 02'$ W. bet. secs. 15 and 16.

Over rolling land, through scattering undergrowth.

Asc. SE. slope 75 ft. to

8.90 Low hill, bears NE. and SW., desc. NW. slope 40 ft. to
 12.70 Wash, 10 lks. wide, course SW., over rolling land.
 19.90 Enter wash, course SW.
 29.60 Leave wash, course SW., asc. SE. slope 70 ft. to
 32.00 Low hill, bears NE. and SW., desc. NW. slope 50 ft. to
 34.70 Ravine, course SW., asc. SE. slope 65 ft. to
 40.00

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

1915 on S. rim;
 $\frac{1}{4}$ in N.,
 S15 in E. and
 S16 in W. half;

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

46.20 Wash, 70 lks. wide, course W., asc. SE. slope 50 ft. to
 55.10 Low hill, bears NE. and SW., desc. NW. slope 45 ft. to
 61.60 Wash, 20 lks. wide, course SW., asc. SW. slope 55 ft. to
 65.00 Low hill, bears NE. and SW., desc. NW. slope 45 ft. to
 70.00 Wash, 60 lks. wide, course SW., asc. 15 ft. to
 80.00 Impracticable to set an iron post at this point. Set a
 granite stone, 18 X 8 X 8 ins., 15 ins. in ground
 for the cor. of secs. 9, 10, 15 and 16, marked with
 3 notches on E. and 4 notches on S. edges; and raise
 a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.

Land, rolling.

Soil, rocky, 4th. rate.

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

Apr. 5, 1916.

Apr. 6, 1915.

At 8h. 0 m., a.m., l.m.t., I set off $34^{\circ} 28\frac{1}{2}'$ N. on the
 lat. arc, $6^{\circ} 13'$ 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

S. $89^{\circ} 57'$ E. on a random line bet. secs. 10 and 15.

Subdivision of Section 1 T. 13 N. R. 19 W. 17.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect the N. and S. line, 10 lks. S. of the cor. of secs. 10, 11, 14 and 15. Thence I run S. $89^{\circ} 59'$ W. on a true line bet. secs. 10 and 15. Over rolling land, through scattering undergrowth.
.50	Enter wash, course SW.
8.00	Leave wash, course SW.
12.20	Wash, 20 lks. wide, course SW.
19.80	Wash, 15 lks. wide, course SW., asc. SE. slope 40 ft. to
27.90	Low hill, bears NE. and SW., desc. 55 ft. to
31.40	Wash, 30 lks. wide, course SW., asc. gentle SE. slope to
38.00	Low hill, bears NE. and SW., desc. SW. slope to
40.05	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; S10 in N., S15 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	From $\frac{1}{4}$ sec. cor. along broken S. slope to Crest of spur, falls to SW., desc. broken NW. slope 90 ft. to
57.60	Enter wash, course W., thence over wash to
64.80	Leave wash, course SW.
66.00	Wash, 30 lks. wide, course S.
80.10	The cor. of secs. 9, 10, 15 and 16. Land, rolling. Soil, shallow, rocky, 4th. rate. Undergrowth, greasewood, ocatillo, palo verde, and cacti. No timber.
<hr/>	
	N. $0^{\circ} 02'$ W. bet. secs. 9 and 10. Over rocky flat, broken by washes, through scattering undergrowth.
5.00	Wash, 1.50 chs. wide, course SW.
18.00	Wash, 30 lks. wide, course SW.
20.00	Leave flat, bears NE. and SW., thence over rolling mountainous land. Asc. SW. slope to
24.90	Low hill, bears NE. and SW.
26.90	Ravine, 15 lks. wide, 40 ft. deep, course W. asc. SE. slope 50 ft. to
34.10	Crest of knoll, desc. NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in ground to solid rock, 10 ins. in mound of stone, 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.
40.75	From $\frac{1}{4}$ sec. cor. desc. N. slope 30 ft. to Ravine, course SW., asc. SE. slope 70 ft. to
45.00	Low hill, bears NE. and SW., desc. NW. slope 30 ft. to
47.90	Wash, 2.00 chs. wide, course SW., asc. SE. slope 105 ft. to
57.75	Low hill, bears NE. and SW., desc. N. slope 45 ft. to
60.35	Ravine, course SW., asc. SW. slope 75 ft. to
67.10	Low hill, bears NE. and SW., desc. NW. slope 100 ft. to
74.30	Wash, 80 lks. wide, course SW., asc. S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in ground to solid rock, 18 ins. in mound of stone, for cor. of secs. 3, 4, 9 and 10, marked on brass cap, 1915 on S. rim; T13N R19W in N. half; S4 in NW., S3 in NE., S10 in SE. and S9 in SW. quadrant;

Chains

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high.
W. of cor. Pits impracticable.
Land, S. 20.00chs., flat; N. 60.00 chs. rolling mountainous.
Soil, shallow, rocky, 4th. rate.
Undergrowth, greasewood, palo verde, and cacti.
No timber.
Apr. 6, 1915; At this cor. I set off $6^{\circ} 16' 5''$ N. on the decl. arc, and at apparent noon, I observe the sun on the meridian. The resulting lat. is $34^{\circ} 29' 5''$ N.

Jan. 19, 1916. A. S.

At 8 h. 20 m., a.m., 1.m.t., I set off $34^{\circ} 29' 5''$ N. on the lat. arc, $20^{\circ} 28' 5''$ S. on the decl. arc and establish a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.

Thence I run

N. $89^{\circ} 59'$ E. on a random line bet. secs. 3 and 10.

40.00

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

80.00

Intersect the N. and S. line, 3 lks. N. of the cor. of secs. 2, 3, 10 and 11.

Thence I run

West on a true line bet. secs. 3 and 10.

Over rolling mountainous land, sharply broken by buttes and washes; through scattering undergrowth.

15.10

Enter wash, 50 ft. deep, course W.

20.00

Leave wash, course NW.

28.30

Wash, 80 lks. wide, course SW.

40.00

Impracticable to set iron post at this point. Set a malpais stone 14 X 12 X 8 ins. 10 ins. in 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.

55.00

Enter wash, course SW.

58.00

Leave wash, course SW.

78.00

Wash, 75 lks. wide, course SW.

80.00

The cor. of secs. 3, 4, 9 and 10.

Land, rolling mountainous.

Soil, rocky, 4th. rate.

Undergrowth, greasewood, palo verde, ocotillo, and cacti.

No timber.

A.S.

D. J. W.

N. $0^{\circ} 02'$ W. on a random line bet. secs. 3 and 4.

40.00

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

80.07

Intersect the N. bdy. of the Tp., 10 lks. E. of the cor. of secs. 3, 4, 33 and 34, which is a stone established by J. M. M. as described in book "A".

Thence I run

S. $0^{\circ} 06'$ E. on a true line bet. secs. 3 and 4.

Over rolling land, cut by low hills and washes; through scattering undergrowth.

13.40

Wash, 70 lks. wide, 20 ft. deep, course SW.

38.70

Wash, 30 lks. wide, course SW.

40.07

Point for $\frac{1}{4}$ sec. cor. falls where same would be destroyed.

40.67

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

1916 on S. rim;

WC $\frac{1}{4}$ in N.,

S3 in E. and

S4 in W. half;

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

64.00

Wash, 50 lks. wide, 20 ft. deep, course SW.

80.07

The cor. of secs. 3, 4, 9 and 10.

Land, rolling.

Soil, rocky, 4th. rate.

Undergrowth, greasewood, ocotillo and cacti.

Chains

No timber.

Jan. 19, 1916. D. J. W.

Apr. 2, 1915. J. M. M.

At 8 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc, $4^{\circ} 41' 5''$ N. on the decl. arc, and determine a meridian with the solar at the std. cor. of secs. 32 and 33 on the S. bdy. of the Tp., which is a stone established by me, as described in book "A".

Thence I run

N. $0^{\circ} 02'$ W. bet. secs. 32 and 33.

Over rolling mountainous land, through scattering undergrowth.

Desc. broken NE. slope 108 ft. to

7.60 Wash, 20 lks. wide, course W., asc. S. slope 20 ft. to

11.60 Crest of spur, falls to W., desc. NW. slope 90 ft. to

20.20 Wash, 30 lks. wide, course SW., asc. 25 ft. to

40.00 Impracticable to set iron post at this point. Set a granite stone, $14 \times 10 \times 8$ ins., 10 ins. in 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.

45.50 Crest of spur, falls to SW., desc. NW. slope 95 ft. to

50.10 Wash, 20 lks. wide, course SW., asc. SE. slope 100 ft. to

54.50 Crest of butte, desc. N. slope 223 ft. to

65.60 Wash, 1.50 chs. wide, course SW. Wagon road along bottom of wash, bears NE. and SW.,

71.50 Wash, 30 lks. wide, course SW.

80.00 Impracticable to set iron post at this point. Set a granite stone $14 \times 10 \times 8$ ins., 10 ins. in ground, for the cor. of secs. 28, 29, 32 and 33, marked with 4 notches on E. and 1 notches on S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling mountainous.

Soil, decomposed granite, 4th. rate.

Undergrowth, greasewood, palo verde and cacti.

No timber..

East on a random line bet. secs. 28 and 33.

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

80.04 Intersect the N. and S. line, 6 lks. S. of the cor. of secs. 27, 28, 33 and 34.

Thence I run

S. $89^{\circ} 57'$ W. on a true line bet. secs. 28 and 33.

Over rolling mountainous land, through scattering undergrowth.

20.60 Wash, 20 lks. wide, course SW.

40.02 Impracticable to set iron post at this point. Set a granite stone, $16 \times 8 \times 6$ ins., 6 ins. in ground to 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.

51.50 Crest of spur, falls to SW. desc. NW. slope 90 ft. to

64.80 Wash, 1.50 chs. wide, course SW., asc. SE. slope 145 ft. to

72.80 Crest of butte, desc. along broken SW. slope 113 ft. to

79.80 Ravine, course S.

80.04 The cor. of secs. 28, 29, 32 and 33.

Land, rolling mountainous.

Soil, shallow, rocky, 4th. rate.

Undergrowth, greasewood, palo verde, and cacti.

No timber.

Apr. 2, 1915. At this cor. I set off $4^{\circ} 45'$ N. on the decl. arc, and at apparent noon I observe the sun on the meridian. The resulting lat. is $34^{\circ} 26'$ N.

April 2, 1915.

Apr. 5, 1915.

N. $0^{\circ} 02'$ W. bet. secs. 28 and 29.

Chains	Over rolling mountainous land, through scattering undergrowth.
4.10	Asc. broken S. slope 65 ft. to
8.50	Crest of spur, falls to SW., desc. N. slope 56 ft. to Wash, 50 lks. wide, course SW., asc. along SW. slope 250 ft. to
27.80	Crest of small butte, desc. NW. slope 193 ft. to
40.00	Impracticable to set iron post at this point. Set a granite stone, 14 X 10 X 8 ins., 9 ins. in ground to 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.
41.80	Continue to desc. 25 ft. to
51.60	Wash, 40 lks. wide, course SW., asc. 122 ft. to
60.40	Crest of knoll, desc. N. slope 80 ft. to
75.90	Wash, 40 lks. wide, course SW.
80.00	Wash, 60 lks. wide, course SW.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. 20, 21, 28 and 29, marked on brass cap.
	1915 on S. rim;
	T13N R19W 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, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling mountainous.
	Soil, shallow, rocky, 4th. rate.
	Undergrowth, greasewood, palo verde, and cacti.
	No timber.
	April 5, 1915.
	Apr. 6, 1915.
40.00	N. $89^{\circ} 57'$ E. on a random line bet. secs. 21 and 28.
79.87	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	S. $89^{\circ} 59'$ W. on a true line bet. secs. 21 and 28.
39.93 $\frac{1}{2}$	Over nearly level land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1915 on S. rim;
	S21 in N.,
	S28 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.
42.20	Wash, 40 lks. wide, course SW.
57.50	Wash, 30 lks. wide, course SW.
70.50	Wash, 60 lks. wide, course SW.
79.87	The cor. of secs. 20, 21, 28 and 29.
	Land, nearly level.
	Soil, decomposed lava and granite, very shallow, 4th. rate.
	Undergrowth, palo verde, cacti and greasewood.
	No timber.
	Apr. 6, 1915. At this cor. I set off $6^{\circ} 16' 55''$ N. on the decl. arc, and at apparent noon I observe the sun on the meridian. The resulting lat. is $34^{\circ} 27'$ N.
	N. $0^{\circ} 02'$ W. bet. secs. 20 and 21.
4.90	Over rolling land, through scattering undergrowth.
25.80	Wash, 40 lks. wide, course SW., asc. SE. slope 80 ft. to
40.00	Crest of ridge, bears NE. and SW., desc. N. slope to
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Subdivision of T. 13 N. R. 19 W. 21.

Chains

1915 on S. rim;
 $\frac{1}{4}$ in N.,
 S21 in E. and
 S20 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 41.50 Wash, 50 lks. wide, course SW.
 60.00 Wash, 50 lks. wide, course SW.
 76.20 Wash, 60 lks. wide, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
 in ground, for cor. of secs. 16, 17, 20 and 21,
 marked on brass cap
 1915 on S. rim;
 T13N R19W in. N. half;
 S17 in NW.,
 S16 in NE.,
 S21 in SE. and
 S20 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, gently rolling.
 Soil, decomposed lava and granite, very shallow, 4th. rate.
 Undergrowth, palo verde, greasewood, ocatillo and cacti.
 No timber.
 April 6, 1915. J.M.M.

Apr. 5, 1915. A. S.
 N. $89^{\circ} 59'$ E. on a random line bet. secs. 16 and 21.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect the N. and S. line, 7 lks. N. of the cor. of
 secs. 15, 16, 21 and 22.
 Thence I run
 N. $89^{\circ} 58'$ W. on a true line bet. secs. 16 and 21.
 Over nearly level land, through scattering undergrowth.
 Asc. SE. slope 60 ft. to
 3.50 Low hill, bears NE. and SW., desc. NW. slope 70 ft. to
 10.80 Wash, 15 lks. wide, course S.,
 25.00 Wash, 20 lks. wide, course SW.
 39.95 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 S16 in N.,
 S21 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.
 Apr. 5, 1915.

Apr. 6, 1915.
 50.00 Wash, 50 lks. wide, course SW.
 61.80 Wash, 20 lks. wide, course SW.
 78.70 Wash, 15 lks. wide, Course SW.
 79.90 The cor. of secs. 16, 17, 20 and 21.
 Land, nearly level.
 Soil, rocky, 4th. rate.
 Undergrowth, greasewood, palo verde and cacti.
 No timber.

N. $0^{\circ} 02'$ W. bet. secs. 16 and 17.
 Over nearly level land, through scattering undergrowth.
 Asc. gentle S. slope.
 3.30 Low hill, bears NE. and SW. desc. NW. slope.
 10.00 Wash, 200 chs. wide, course SW.
 15.00 Enter wash, course SW.
 25.00 Leave wash, course SW.
 30.00 Enter wash, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Chains

	<p>1915 on S. rim; $\frac{1}{4}$ in N., S16 in E. and S17 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>	
70.00	Leave wash, course SW., asc. SE. slope.	
77.60	Low hill, bears NE. and SW., desc. NW. slope.	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. of 8, 9, 16 and 17, marked on brass cap	
	<p>1915 on S. rim; T13N R19W. in N. half; S8 in NW., S9 in NE., S16 in SE, and S17 in SW, quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>	
	<p>Land, gently rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, palo verde, ocatillo and cacti. No timber.</p>	
	<hr/>	
	S. $89^{\circ} 58'$ E. on a random line bet. secs. 9 and 16.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.	
79.95	Intersect the N. and S. line, at the cor. of secs. 9, 10, 15, and 16.	
	Thence I run	
	N. $89^{\circ} 58'$ W. on a true line bet. secs. 9 and 16.	
	Over rolling land, through scattering undergrowth.	
15.00	Enter wash, course SW.	
39.97 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap	
	<p>1915 on S. rim; S9 in N., S16 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.</p>	
62.20	Leave wash, course SW.	
73.70	Wash, 2.00 chs. wide, course SW., asc. E. slope.	
77.00	Low hill, bears NE. and SW., desc. NW. slope.	
79.95	The cor. of secs. 8, 9, 16 and 17.	
	Land, rolling.	
	Soil, rocky, 3rd. rate.	
	Undergrowth, greasewood, palo verde and cacti.	
	No timber.	
	A. S. April 5, 1915.	
	<hr/>	
	Jan. 19, 1916. D. J. W.	
	At 9 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 28\frac{1}{2}'$ N. on the lat. arc, $20^{\circ} 29'$ S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 8, 9, 16 and 17.	
	Thence I run	
	N. $0^{\circ} 02'$ W. bet. secs. 8 and 9.	
	Over gently rolling land, through scattering undergrowth.	
9.00	Wash, 2.00 chs. wide, 10 ft. deep, course SW.	
40.00	Set an iron post, 3ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap	
	<p>1916 on S. rim; $\frac{1}{4}$ in N., S9 in E. and S8 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>	
51.40	Enter wash, course SW.	

Subdivision of T. 13 N. R. 19 W.

Chains 59.30 80.00	<p>Leave wash, course SW. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 4, 5, 8 and 9, marked on brass cap 1916 on S. rim; T13N R19 W in N. half; S5 in NW., S4 in NE., S9 in SE. and S8 in SW quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, palo verde and cacti. No timber.</p>
40.00 79.76	<p>S. 89° 58' E. on a random line bet. secs. 4 and 9. Set temp. ¼ sec. cor. Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 3, 4, 9 and 10. Thence I run N. 89° 57' W. on a true line bet. secs. 4 and 9. Over rolling mountainous land, through scattering undergrowth.</p>
10.35 26.40 39.88	<p>Asc. NE. slope 175 ft. to Crest of butte, desc. rocky NW. slope 260 ft. to Wash, 50 lks. wide, course SW., asc. E. slope 80 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; S4 in N., S9 in S. and ¼ in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p>
40.90 52.90	<p>From ¼ sec. cor. asc. E. slope 30 ft. to Crest of spur, falls to N., desc. NW. slope 180 ft. to Base of slope, bears NE. and SW., thence over gently rolling land.</p>
58.30 79.76	<p>Wash, 50 lks. wide, 15 ft. deep, course SW. The cor. of secs. 4, 5, 8 and 9. Land, E. 50.00 chs., rolling mountainous; W. 30.00 chs., gently rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, palo verde and cacti. No timber. Jan. 19, 1916.</p>
40.00 79.87	<p>Jan. 21, 1916. At 9 h. 0 m., a.m., 1.m.t., I set off 34° 29' 5" N. on the lat. arc, 20° 04' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 4, 5, 8 and 9. Thence I run N. 0° 02' W. on a random line bet. secs. 4 and 5. Set temp. ¼ sec. cor. Intersect the N. bdy. of the Tp., 16 lks. E. of the cor. secs. 4, 5, 32 and 33, which is a stone, established by J. M. M. as described in book "A". Thence I run S. 0° 09' E. on a true line bet. secs. 4 and 5. Over mountainous land.</p>
1.40 13.50	<p>Desc. S. slope 25 ft. to Wash, 50 lks. wide, course SW., asc. abruptly over N. slope 250 ft. to Crest of high black butte, desc. steep S. slope 340 ft. to</p>

Chains

35.50

Enter wash, course SW.

39.00

Leave wash, course SW.

39.87

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

1916 on S. rim;

 $\frac{1}{4}$ in N.,

S4 in E. and

S5 in W. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.From $\frac{1}{4}$ sec. cor. asc. NW. slope 30 ft. to

47.30

Low hill, bears NE. and SW., desc. S. slope 65 ft. to

53.85

Wash, 60 lks. wide, course SW., asc. NW. slope 50 ft. to

73.15

Low hill, bears NE. and SW., desc. S. slope 70 ft. to

79.87

The cor. of secs. 4, 5, 8 and 9.

Land, N. 40.00 chs., mountainous; S. 40.00 chs., rolling.

Soil, rocky, 4th. rate.

Undergrowth, greasewood, palo verde, ocatillo and cacti.

No timber.

D. J. W. Jan. 21, 1916.

Apr. 1, 1915. J. M. M.

At 8 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 25'$ N. on thelat. arc, $4^{\circ} 18' 5''$ N. on the decl. arc, and determine

a meridian with the solar at the std. cor. of sec. 32

and frac. sec. 31 on S. bdy. of the Tp., which is a

granite stone, established by me as described in book "A".

Thence I run

N. $0^{\circ} 03'$ W. bet. sec. 32 and frac. sec. 31

Over mountainous land, through scattering undergrowth.

Asc. S. slope to

11.70

Crest of spur, falls to SW., desc. N. slope 90 ft. to

10.60

Ravine, course SW., asc. SW. slope 52 ft. to

15.80

Crest of spur, falls to NW., desc. along broken NW. slope 60 ft. to

30.20

Wash, 1.50 chs. wide, course SW. Wagon road along bottom of wash, bears NE. and SW., asc. broken S. slope 110 ft. to

40.00

Impracticable to set iron post at this point. Set a lava stone 14 X 10 X 8 ins. in 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.From $\frac{1}{4}$ sec. cor. continue to asc. 45 ft. to

43.50

Crest of spur, falls to SW., asc. along W. slope 70 ft. to

51.90

Crest of spur, falls to NW., desc. broken NW. slope 130 ft. to

59.40

Ravine, course SW., asc. broken SE. slope 65 ft. to

66.50

Crest of small knoll, desc. NW. slope 30 ft. to

80.00

Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 10 ins. in ground, for the cor. of secs. 29, 30 and 32 and frac. sec. 31, marked with 5 notches on E. and 1 notch on S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, shallow, 4th. rate.

Undergrowth, greasewood, ocatillo, palo verde and cacti.

No timber.

Apr. 1, 1915. At this cor. I set off $4^{\circ} 22'$ N. on the

decl. arc, and at apparent noon I observe the sun on

the meridian. The resulting lat. is $34^{\circ} 26'$ N.

East on a random line bet. secs. 29 and 32.

40.00

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

80.00

Intersect the N. and S. line, at the cor. of secs. 28, 29, 32 and 33.

Thence I run

West on a true line bet. secs. 29 and 32.

Over mountainous land, through scattering undergrowth.

Chains

5.50 Asc. SE. slope 153 ft. to
 17.20 Crest of knoll, desc. SW. slope 215 ft. to
 23.20 Wash, 50 lks. wide, course SW., asc. SE. slope 76 ft. to
 36.00 Spur, falls to NE., asc. along N. slope 117 ft. to
 40.00 Crest of spur, falls to NW., along N. slope to
 Impracticable to set iron post at this point. Set a lava
 stone, 14 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, N. of cor.
 From $\frac{1}{4}$ sec. cor. desc. broken NW. slope 305 ft. to
 60.00 Wash, 70 lks. wide, course SW., along SW. slope to
 69.50 Same wash, course NW., thence along NW. slope to
 80.00 The cor. of secs. 29, 30 and 32 and frac. sec. 31.
 Land, rolling mountainous.
 Soil, rocky, 4th. rate.
 Undergrowth, greasewood, palo verde and cacti.
 No timber.

Apr. 1, 1915.

Apr. 5, 1915.

At 8 h. 0 m., a.m., 1.m.t., I set off $34^{\circ} 26'$ N. on the
 lat. arc, $5^{\circ} 50.5'$ N. on the decl. arc, and determine
 a meridian with the solar at the cor. of secs. 29,
 30 and 32 and frac. sec. 31

Thence I run

40.00 West on a random line bet. sec. 30 and frac. sec. 31.
 Set temp. $\frac{1}{4}$ sec. cor.

Apr. 9, 1915. Thence I continue

80.22 West on a random line bet. sec. 30 and frac. sec. 31.

Intersect the W. bdy. of the Tp., 14 lks. N. of cor. of sec.
 30 and frac. secs. 25, 31 and 36, which is a stone set by
 me as described in book "A".

Thence I run

N. $89^{\circ} 54'$ E. on a true line bet. sec. 30 and frac. sec. 31.

Over mountainous land, through scattering undergrowth.

Desc. broken SE. slope 70 ft. to

5.80 Enter wash, course SW.

10.40 Wagon road, bears N. and S.

36.20 Leave wash, course SW., asc. SW. slope 50 ft. to

40.22 Point for $\frac{1}{4}$ sec. cor. falls where same would be
 destroyed. I return to

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

1915 on S. rim;

S30 in N.,

S31 WC 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.

From $\frac{1}{4}$ sec. cor. asc. broken SW. slope 55 ft. to

59.20 Crest of spur, falls to SW., desc. SE. slope 70 ft. to

72.60 Wash, 70 lks. wide, course SW., asc. NW. slope 80 ft. to

80.22 The cor. of secs. 29, 30, and 32 and frac. sec. 31.

Land, rolling mountainous.

Soil, very shallow and rocky, 4th. rate.

Undergrowth, greasewood, palo verde and cacti.

No timber.

N. $0^{\circ} 03'$ W. bet. secs. 29 and 30.Over rolling mountainous land, through scattering
undergrowth.

Desc. NW. slope 74 ft. to

5.00 Wash, 70 lks. wide, course SW., asc. broken S. slope
 140 ft. to

15.00 Crest of spur, falls to SW., desc. N. slope 95 ft. to

26.80 Wash, 40 lks. wide, course SW., asc. S. slope 345 ft. to

<p>Chains 38.40 40.00 45.90 66.30 80.00</p>	<p>Crest of spur, falls to W., desc. N. slope 40 ft. to impracticable to set iron post at this point. Set a lava stone, 18 X 10 X 8 ins., in 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. From $\frac{1}{4}$ sec. cor. desc. N. slope 87 ft. to Ravine, course W., asc. along broken W. slope 305 ft. to Crest of rocky spur, falls to NW., desc. NE. slope 221 ft. to Impracticable to set iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 8 ins. in ground to solid rock, for the cor. of secs. 19, 20, 29 and 30, marked with 5 notches on E. and 2 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ high, W. of cor. Land, rolling mountainous. Soil, rocky, 4th. rate. Undergrowth, greasewood, palo verde, and cacti. No timber.</p>
<p>40.00 80.07 2.60 19.60 36.00 39.80 40.03$\frac{1}{2}$</p>	<p>East on a random line bet. secs, 20 and 29. Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence I run N. $89^{\circ} 58'$ W. on a true line bet. secs. 20 and 29. Over rolling mountainous land, through scattering undergrowth. Wash, 40 lks. wide, course SW., asc. along SW. slope 60 ft. to Crest of ridge, bears NE. and SW., thence along NW. slope Crest of small knoll, desc. 40 ft. to Ravine, course NW., asc. 30 ft. to Impracticable to set iron post at this point. Set a granite stone 15 X 10 X 7 ins., 9 ins. in 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. From $\frac{1}{4}$ sec. cor. asc. NE. slope 140 ft. to Crest of spur, falls to NW., thence along N. slope Crest of spur, falls to NW., desc. SW. slope 118 ft. to Ravine, course W., thence along bottom of ravine to Ravine bears to NW., asc. NE. slope 40 ft. to The cor. of secs. 19, 20, 29 and 30. Land, rolling mountainous. Soil, rocky, 4th. rate. Undergrowth, greasewood, ocotillo and cacti. No timber.</p>
<p>40.00 80.17 21.20 40.17</p>	<p>S. $89^{\circ} 54'$ W. on a random line bet. secs. 19 and 30. Set temp. $\frac{1}{4}$ sec. cor. Apr. 5, 1915. Apr. 9, 1915. Thence I continue S. $89^{\circ} 54'$ W. on a random line bet. secs. 19 and 30. Intersect the W. bdy. of the Tp., 9 lks. S. of cor. of secs. 19, 24 and 30 & frac. sec. 25, which is an iron post established by me as described in book "A". Thence I run N. $89^{\circ} 58'$ E. on a true line bet. secs. 19 and 30. Over rolling mountainous land, through scattering undergrowth. Wash, 2.50 chs. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; S19 in N., S30 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,</p>

Subdivision of T. 13 N. R. 19 W.

Chains

N. of cor. Pits impracticable.
 40.60 Wash, 30 lks. wide, course SW., asc. along broken SW. slope 150 ft. to
 60.80 Ravine, course SW., thence along NW. slope, asc. 187 ft. to
 70.00 Crest of spur, falls to SW., continue to asc. 66 ft. to
 72.50 Crest of spur, falls to NW., desc. NE. slope 184 ft. to
 80.17 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling mountainous.
 Soil, rocky, 4th. rate.
 Undergrowth, greasewood, ocatillo, and cacti.
 No timber.

April 9, 1915.

Apr. 6, 1915.

At 8 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 27'$ N. on the lat. arc, $6^{\circ} 13\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 19, 20, 29 and 30.

Thence I run N. $0^{\circ} 03'$ W. bet. secs. 19 and 20.

Over rolling mountainous land, through scattering undergrowth.

Desc. along NE. slope 95 ft. to

4.80 Ravine, course NW., asc. gradually along broken NW. slope 22 ft. to

8.50 Crest of spur, falls to NW., desc. 73 ft. to

15.00 Wash, 1.00 ch. wide, course SW., asc. SW. slope 90 ft. to

40.00 Impracticable to set iron post at this point. Set a lava stone, 20 X 9 X 6 ins., 12 ins. in ground to 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.

From $\frac{1}{4}$ sec. cor. continue to asc. 10 ft. to

41.00 Crest of small knoll, desc. 20 ft. to

51.50 Wash, 2.50 chs. wide, course SW., thence over nearly level land.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. secs. 17, 18, 19 and 20, marked on brass cap

- 1915 on S. rim;
- T13N R19W in N. half;
- S18 in NW.,
- S17 in NE.,
- S20 in SE. and
- S19 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 mountainous.

Soil, shallow and rocky, 4th. rate.

Undergrowth, greasewood, ocatillo, and cacti.

No timber.

S. $89^{\circ} 58'$ E. on a random line bet. secs. 17 and 20.

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

79.95 Intersect the N. and S. line, 3 lks. N. of the cor. of secs. 16, 17, 20 and 21.

Thence I run

N. $89^{\circ} 57'$ W. on a true line bet. secs. 17 and 20.

Over nearly level land, through scattering undergrowth.

21.80 Wash, 1.50 chs. wide, course SW.

39.97 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

- 1915 on S. rim;
- S17 in N.,
- S20 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.

Subdivision of T. 13 N. R. 19 W.

Chains	
45.50	Wash, 60 lks. wide, course SW.
57.50	Wash, 2.50 chs. wide, course SW.
79.95	The cor. of secs. 17, 18, 19 and 20. Land, nearly level. Soil, rocky, 4th. rate. Undergrowth, greasewood, palo verde and cacti. No timber.
40.00	West on a random line bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor. Apr. 6, 1915.
80.10	Apr. 8, 1915. Thence I continue West on a random line bet. secs. 18 and 19. Intersect the W. bdy. of the Tp., 14 lks. N. 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 N. $89^{\circ} 54'$ E. on a true line bet. secs. 18 and 19. Over rolling land, through scattering undergrowth.
31.20	Wash, 70 lks. wide, course SW.
40.10	Impracticable to set an iron post at this point. Set a granite stone, 16 X 10 X 8 ins., 8 ins. in 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.
44.20	Wash, 50 lks. wide, course SW.
70.00	Wash, 70 lks. wide, course SW.
76.50	Wash, 90 lks. wide, course SW.
80.10	The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood palo verde, ocatillo and cacti. No timber. April 8, 1915. J. M. M.
1.00	Apr. 7, 1915. A. S. At 8 h. 0 m., a.m., 1.m.t., I set off $34^{\circ} 28'$ N. on the lat. arc, $6^{\circ} 36'$ N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20. Thence I run N. $0^{\circ} 03'$ W. bet. secs. 17 and 18. Over rolling land, through scattering undergrowth.
16.00	Enter wash, course SW.
20.00	Leave wash, course SW.
23.00	Low hill, bears NE. and SW.
23.00	Wash, 2.00 chs. wide, course SW.
35.00	Wash, 75 lks. wide, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ in N., S17 in E. and S18 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
58.00	Wash, 15 lks. wide, course SW.
67.00	Low hill, bears NE. and SW.
75.90	Wash, 2.00 chs. wide, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 7, 8, 17 and 18, marked on brass cap 1915 on S. rim; T13N R19W in N. half; S7 in NW., S8 in NE., S17 in SE. and S18 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,

Chains

W. of cor. Pits impracticable.
Land, rolling.
Soil, rocky, 3rd. rate.
Undergrowth, greasewood, palo verde, ocatillo and cacti.
No timber.

40.00 S. 89° 57' E. on a random line bet. secs. 8 and 17.
80.06 Set temp. 1/4 sec. cor.
Intersect the N. and S. line, 5 lks. N. of the cor. of
secs. 8, 9, 16 and 17.

Thence I run
7.00 N. 89° 55' W. on a true line bet. secs. 8 and 17.
31.50 Over rolling land, through scattering undergrowth.
38.00 Wash, 3.00 chs. wide, course SW.
40.03 Wash, 1.00 chs. wide, course SW.
Wash, 80 lks. wide, course SW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
ground, for 1/4 sec. cor., marked on brass cap

1915 on S. rim;
S8 in N.,
S17 in S., and
1/4 in W. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. Pits impracticable.

51.10 Wash, 30 lks. wide, course SW., asc. SE. slope to
58.80 Low hill, bears NE. and SW., desc. NW. slope to
60.00 Ravine, course SW., asc. SE. slope to
61.80 Low hill, bears NE. and SW., desc. NW. slope to
75.00 Wash, 2.00 chs. wide, course SW.
80.06 The cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, rocky, 4th. rate.
Undergrowth, greasewood, ocatillo, palo verde and cacti.
No timber.

40.00 S. 89° 54' W. on a random line bet. secs. 7 and 18.
Set temp. 1/4 sec. cor.

A. S. April 7, 1915.

Apr. 19, 1915. J. M. M.
At 9 h. 0m., a.m., l.m.t., I set off 34° 28 1/2' N. on the
lat. arc, 10° 58' 5 N. on the decl. arc, and determine
a meridian with the solar at the 1/4 sec. cor. bet .
secs. 7 and 18.

80.02 Thence I continue
S. 89° 54' W. on a random line bet. secs. 7 and 18.
Intersect the W. bdy. of the Tp., 16 lks. S. of the cor.
of secs. 7, 12, 13 and 18, which is a stone set by
me as described in book "A".

Thence I run
14.60 S. 89° 59' E. on a true line bet. secs. 7 and 18.
35.20 Over rolling land, through scattering undergrowth.
40.02 Wash, 60 lks. wide, course SW.
Wash, 40 lks. wide, course SW.
Impracticable to set an iron post at this point. Set a
lava stone, 15 X 10 X 7 ins., 9 ins. in ground for
1/4 sec. cor., marked 1/4 on N. face; and raise a mound of
stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

45.00 Wash, 2.00 chs. wide, course SW.
60.00 Wash, 1.00 ch. wide, course SW.
73.00 Wash, 50 lks. wide, course SW.
80.02 The cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, rocky and shallow, 4th. rate.
Undergrowth, greasewood, ocatillo and cacti.
No timber.

April 19, 1915.

J. M. M.

Subdivision of T. 13 N. R. 19 W.

Chains

6.00	Apr. 7, 1915. A. S. N. $0^{\circ} 03'$ W. bet. secs. 7 and 8. Over rolling land, through scattering undergrowth. Wash, 50 lks. wide, course SW.
13.00	Wash, 2.00 chs. wide, course SW.
29.40	Wash, 2.00 chs. wide, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ in N., S8 in E. and S7 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A. S. Apr. 7, 1915.
	Jan. 20, 1916. D. J. W. At 9 h. 0 m., a.m., l.m.t., I set off $34^{\circ} 29'$ N. on the lat. arc, $20^{\circ} 16.5$ S. on the decl. arc, and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 8. Thence I continue N. $0^{\circ} 03'$ W. bet. secs. 7 and 8. Over rolling land, through scattering undergrowth. Wash, 50 lks. wide, course SW.
45.80	Enter wash, course SW.
63.00	Leave wash, course SW.
72.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for the cor. of secs. 5, 6, 7 and 8, marked on brass cap 1916 on S. rim; T13N R19W in N. half; S6 in NW., S5 in NE., S8 in SE. and S7 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.00	Land, rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, ocatillo and cacti. No timber.
40.00	S. $89^{\circ} 55'$ E. on a random line bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.
79.87	Intersect the N. and S. line, 16 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence I run S. $89^{\circ} 58'$ W. on a true line bet. secs. 5 and 8. Over rolling land, through scattering undergrowth. Asc. SE. slope 60 ft. to Low hill, bears NE. and SW., desc. 60 ft. to Wash, 75 lks. wide, course SW., Wash, 2.00 chs. wide, course SW.
8.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; S5 in N., S8 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.
17.45	Enter wash, course SW, thence across wash.
19.95	Leave wash, course SW., asc. E. slope 40 ft. to Low hill, bears NE. and SW.
39.93 $\frac{1}{2}$	The cor. of secs. 5, 6, 7 and 8. Land; rolling. Soil, rocky, 4th. rate. Undergrowth, greasewood, ocatillo and cacti. No timber.
56.00	
67.70	
75.75	
79.87	

Subdivision of T. 13 N., R. 19 W.

Chains.

N.89° 59' W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.68 Intersect the W. bdy. of the Tp., 14 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by J. M. M., as described in Book "A".
 Thence I run
 N.89° 55' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through scattering undergrowth.
 10.00 Wash, 2 chs. wide, course SW.
 31.70 Wash, 20 lks. wide, 20 ft. deep, course SW.
 37.00 Wash, 30 lks. wide, course SW.
 39.68 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
 1916 on S. rim;
 S6 in N.,
 S7 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.
 51.50 Wash, 60 lks. wide, course SW.
 63.50 Enter wash, course SW.
 74.50 Leave wash, course SW.; asc. 40 ft. to
 79.68 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, shallow and rocky; 4th rate.
 Undergrowth, greasewood, ocotillo and cacti.
 No timber.

N.0° 03' W., on a random line, bet. secs. 5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect the N. bdy. of the Tp., 20 lks. E. of the cor. of secs. 5, 6, 31 and 32, which is a stone, established by J. M. M., as described in Book "A".
 Thence I run
 S.0° 12' E., on a true line, bet. secs. 5 and 6.
 Over rolling land, through scattering undergrowth.
 4.30 Enter wash, course SW.
 9.00 Leave wash, course SW.
 18.70 Wagon road, brs. NE. and SW.
 19.00 Wash, 25 lks. wide, course SW.
 29.30 Wash, 20 lks. wide, 10 ft. deep, course SW.
 40.05 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
 1916 on S. rim;
 $\frac{1}{4}$ in N.,
 S5 in E. and
 S6 in W. half;
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 52.10 Wash, 15 lks. wide, 25 ft. deep, course SW.; asc. N. slope to
 58.10 Low hill brs. NE. and SW.; desc. S. slope, 30 ft. to
 71.75 Enter wash, course SW.
 77.25 Leave wash, course SW.
 80.05 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, rocky; 4th rate.
 Undergrowth, greasewood, palo verde and cacti.
 No timber.

D. J. W. Jan. 20, 1916.

32. Meanders of the Left Bank of the Colorado River
within T. 13 N., R. 19 W.

Meanders of the left bank of the Colorado River, up stream.

Apr. 14, 1915: J. M. M.

I commence at the meander cor. of fractional sec. 31, on the S. bdy. of the Tp., which is an iron post, established by me, as described in Book "A".

Thence I run with meanders in fractional sec. 31.

Over level land, through scattering timber and dense undergrowth.

N. $11\frac{1}{2}^{\circ}$ W. 3.60 chs.

N. $24\frac{1}{4}^{\circ}$ W. 13.50 "

N. $37\frac{3}{4}^{\circ}$ W. 12.90 "

N. $29\frac{1}{2}^{\circ}$ W. 15.50 "

N. $46\frac{3}{4}^{\circ}$ W. 27.60 "

At 2.50 chs. on this course, mouth of wash, 2 chs. wide.

At 1.50 chs. on this course, mouth of wash, 4 chs. wide.

At end of this course, mouth of wash, 4 chs. wide.

To the meander cor. of frac. secs. 31 and 36. (described in book "A".

Land, river bottom.

Soil, sandy loam, 1st and 2nd rate.

Timber, cottonwood and willow.

Undergrowth, arrow-weed and mesquite.

J. M. M.

Apr. 14, 1915.

GENERAL DESCRIPTION.

The land in this Tp. may be classed for the most part as rolling mountainous. In many places the country is broken by deep washes, and many small buttes rise abruptly to a height of from 50 to 400 ft. The slope of the land is toward the SW. and the Tp. is drained by the Colorado River. This stream enters the Tp. about 20 chs. S. of cor. of sec. 30 and frac. secs. 25, 31 and 36 on W. bdy., and flowing south easterly, leaves the Tp. near the standard $\frac{1}{4}$ sec. cor. of fractional sec. 31.

The soil is of a sandy nature, very rocky, and totally unfit for cultivation.

The undergrowth consists of greasewood, the scrubby palo verde tree, and many varieties of cacti.

There is no timber in this Tp., except a few cottonwoods and scrub oak along the Colorado River.

There are numerous old placer workings in the Tp., and ledges which indicate the presence of mineral deposits.

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, Arizona, April 10, 1917.

The foregoing field notes of the survey of the Subdivision lines and Meanders of Left Bank of Colorado River within _____ Township 13 North, Range 19 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. and Deane J. Wolff, U.S. Transitmen under special instructions dated December 28, 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 D. Wolf
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.~~