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2939

Book "G"

4-679

(Subdivisions)

BOOK 2939

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines and

Meanders of Left Bank of Colorado River within

Fractional Township 13 North, Range 20 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 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 10, 1915.

Survey completed April 19, 1915.

Executed under assignment
Instructions dated Jan. 28, 1915.

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Book "G"

Group 42, Arizona

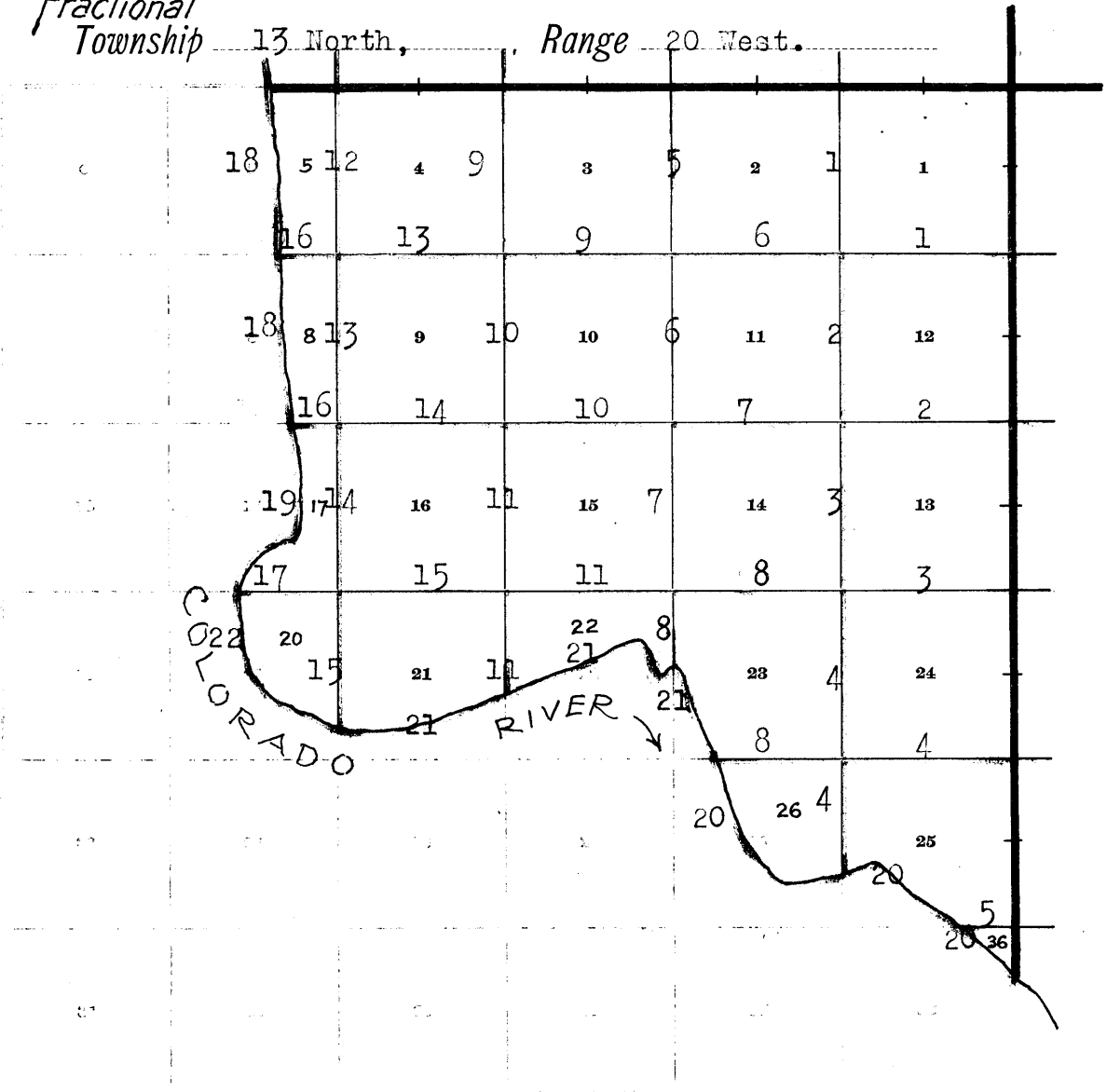
(Subdivisions & Meanders)

BOOK 2939

INDEX DIAGRAM.

Fractional
Township

13 North, Range 20 West.



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

———— Subdivision and Meander lines surveyed under this group.

Subdivision of Fractional T. 13 N., R. 20 W.

Chains.

Survey commenced Apr. 10, 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 Fractional T. 13 N., R. 20 W.

A. S. and J. M. M.

J. M. M.

At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 30 1/2' N. on the lat. arc; 7° 43 1/2' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., which is an iron post, established by A. S., as described in Book "A".

Thence I run

S. 0° 1' E., bet. secs. 1 and 2.
Over rolling hills, through scattering undergrowth.
Asc. broken NW. slope, 40 ft. to

9.00

Desc. broken SE. slope, 70 ft. to

34.80

Wash, 70 lks. wide, course SW. Thence over rolling land.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1915 on S. rim;

1/4 in N.,

S1 in E. and

S2 in W. half;

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

51.50

Wash, 250 lks. wide, course SW.

80.00

Point for cor. of secs. 1, 2, 11 and 12, falls in wash, 40 lks. wide, course SW. I return to

79.80

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for witness cor. to cor. of secs. 1, 2, 11 and 12, marked on brass cap

1915 on S. rim;

WC N. of center;

T13N R20W in N. half;

S2 in NW.,

S1 in NE.,

S12 in SE. and

S11 in SW. quadrant;

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

Land, rolling hills.

Soil, shallow, sandy, decomposed granite and lava; 3rd rate.

No timber.

Undergrowth, greasewood, ocotilla and cacti.

From the true point for cor. of secs. 1, 2, 11 and 12, I run

East on a random line, bet. secs. 1 and 12.

40.00

Set temp. 1/4 sec. cor.

80.01

Intersect E. bdy. of Tp., 9 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by me, as described in Book "A".

Thence I run

N. 89° 56' W., on a true line, bet. secs. 1 and 12.

Over rolling hills, through dense undergrowth.

6.20

Wash, 70 lks. wide, course SW.

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Subdivision of Fractional T. 13 N., R. 20 W.

Chains.

- 29.10 Road, brs. NE. and SW.
 40.00 $\frac{1}{2}$ 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;
 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.
- 41.20 Wash, 2 chs. wide, course SW.
 80.01 The true point for cor. of secs. 1, 2, 11 and 12.
 Land, rolling hills.
 Soil, sandy, decomposed granite and lava; 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.
 Apr. 10, 1915. At this cor., I set off 7° 46 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 29 $\frac{1}{2}$ ' N.
-
- From the true point for cor. of secs. 1, 2, 11 and 12, I run S.0° 1' E., bet. secs. 11 and 12.
 Over rolling hills, through dense undergrowth.
- 17.20 Wash, 2 chs. wide, course SW.
 37.90 Road, brs. NE. and SW.
 39.50 Wash, 70 lks. wide, course SW.
 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.,
 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.
- 62.80 Wash, 150 lks. wide, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap
 1915 on S. rim;
 T13N R20W in N. half;
 S11 in NW.,
 S12 in NE.,
 S13 in SE. and
 S14 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 hills.
 Soil, shallow, sandy, decomposed granite and lava; 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.
-
- S.89° 56' E., on a random line, bet. secs. 12 and 13.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect E. bdy. of Tp., 5 lks. N. 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
 N.89° 54' W., on a true line, bet. secs. 12 and 13.
 Over rolling hills, through dense undergrowth.
- 5.00 Wash, 2 chs. wide, course SW.
 12.50 Wash, 50 lks. wide, course SW.
 30.00 Wash, 3 chs. wide, course SW.
 40.01 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;
 S12 in N.,
 S13 in S. and

Subdivision of Fractional T. 13 N., R. 20 W. 3.

Chains
 80.02 $\frac{1}{4}$ in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 The cor. of secs. 11, 12, 13 and 14.
 Land, rolling hills.
 Soil, shallow, sandy and rocky; 3rd rate.
 No timber.
 Undergrowth, greasewood, and cacti.

27.50 S.0° 1' E., bet. secs. 13 and 14.
 Over rolling land, through dense undergrowth.
 Wash, 3 chs. wide, course SW.
 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.,
 S13 in E. and
 S14 in W. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 50.00 Wash, 2 chs. wide, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
 ground, for cor. of secs. 13, 14, 23 and 24, marked on
 brass cap
 1915 on S. rim;
 T13N R20W 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, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling.
 Soil, shallow, sandy and rocky; 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.

Apr. 10, 1915.

Apr. 12, 1915: At 9 hrs. 2 m., a.m., l.m.t., I set off 34°
 28' N. on the lat. arc; 8° 28' 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
 S.89° 54' E., on a random line, bet. secs. 13 and 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect E. bdy. of Tp., 7 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
 N.89° 57' W., on a true line, bet. secs. 13 and 24.
 Over rolling hills, through scattering undergrowth.
 1.50 Wash, 50 lks. wide, course SW.
 15.50 Wash, 50 lks. wide, course SW.
 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;
 S13 in N.,
 S24 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.
 58.00 Wash, 2 chs. wide, course SW.
 72.50 Wash, 3 chs. wide, course SW.
 79.98 The cor. of secs. 13, 14, 23 and 24.
 Land, rolling hills.

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Subdivision of Fractional T. 13 N., R. 20 W.

Chains.	Soil, shallow, sandy, and rocky; 3rd rate. No timber. Undergrowth, greasewood and cacti.
12.50	S. 0° 1' E., bet. sec. 24 and frac. sec. 23. Over rolling hills, through scattering undergrowth. Desc. S. slope, 60 ft. to
40.00	Wash, 3 chs. wide, course SW. 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; S24 in E., and S23 in W. and $\frac{1}{4}$ in N. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
70.00	Wash, 1 ch. wide, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of sec. 24 and frac. secs. 23, 25 and 26, marked on brass cap, 1915 on S. rim; T13N R20W 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 hills. Soil, shallow, sandy and stony; 3rd rate. No timber. Undergrowth, greasewood and cacti.
40.00	S. 89° 57' E., on a random line, bet. sec. 24 & frac. sec. 25. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect E. bdy. of Tp., 7 lks. S. of cor. of secs. 19, 24 & 30 & frac. sec. 25, which is an iron post, established by me, as described in Book "A". Thence I run West on a true line, bet. sec. 24 and frac. sec. 25 Over rolling hills, through scattering undergrowth.
35.45	Wash, 150 lks. wide, course SW.
39.97	Impracticable to set iron post at this point. Set a lava stone, 14 X 8 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.
79.94	The cor. of sec. 24 and frac. secs. 23, 25 and 26. Land, rolling hills. Soil, shallow, rocky; 4th rate. No timber. Undergrowth, greasewood and cacti. Apr. 12, 1915: At this cor., I set off 8° 30 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 27' N.
20.50	S. 0° 1' E., bet. frac. secs. 25 and 26. Over rolling land, through dense undergrowth. Enter bottom land, brs. NW. and SE.
29.50	Road, brs. NW. and SE.
30.00	Enter timber, brs. NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the

Subdivision of Fractional T. 13 N., R. 20 W.

Chains

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; from which
 A cotton-wood, 10 ins. diam., brs. N. $24\frac{3}{4}^{\circ}$ E., 107 lks.
 dist., marked $\frac{1}{4}$ S25 BT.
 A willow, 8 ins. diam., brs. N. $21\frac{3}{4}^{\circ}$ W., 140 lks. dist.,
 marked $\frac{1}{4}$ S26 BT.

54.70 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, on the left bank of the Colorado River, at
 mean high water mark, for meander cor. of fractional
 secs. 25 and 26, marked on brass cap
 1915 on S. rim;
 MC S. of center;
 T13N R20W in N. half;
 S26 in NW., and
 S25 in NE. sector; from which
 A willow, 8 ins. diam., brs. N. $17\frac{1}{4}^{\circ}$ E., 90 lks. dist.;
 marked T13N R20W S25 MC BT.
 A willow, 8 ins. diam., brs. N. 83° W., 16 lks. dist.,
 marked T13N R20W S26 MC BT.

Land, level and rolling.
 Soil, rocky, 3rd and 4th rate on rolling land; sandy loam,
 2nd rate in bottom.
 Timber, cotton-wood and willow.
 Undergrowth, mesquite, arrow-weed and cacti.
 Apr. 12, 1915.

Apr. 14, 1915. From cor. of sec. 30 & frac. secs. 25, 31 & 36,
 on the E. bdy. of the Tp., which is a stone, establish-
 ed by me, as described in Book "A", I run
 West bet. frac. secs. 25 and 36.
 Over rolling land, through dense undergrowth.

20.80 Leave rolling land, brs. NW. and SE. Thence over bottom
 land, through scattering timber.

23.10 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, on the left bank of the Colorado River, at mean
 high water mark, for meander cor. of fractional secs.
 25 and 36, marked on brass cap
 1915 on S. rim;
 MC W. of center;
 T13N R20W in N. half;
 S25 in NE. and
 S36 in SE. sector; from which
 A willow, 6 ins. diam., brs. N. 30° W., 4 lks. dist.,
 marked T13N R20W S25 MC BT.
 A willow, 7 ins. diam., brs. S. $89^{\circ} 59\frac{3}{4}'$ E., 57 lks.
 dist., marked T13N R20W S36 MC BT.

Land, rolling and bottom.
 Soil, rocky, 4th rate and sandy loam, 2nd rate.
 Timber, cotton-wood and willow.
 Undergrowth, arrow-weed, mesquite and cacti.
 J. M. M. Apr. 14, 1915.

Apr. 10, 1915. A. S.
 At 7 hrs. 5 m., a.m., l.m.t., I set off $34^{\circ} 30\frac{1}{2}'$ N. on the
 lat. arc; $7^{\circ} 43'$ N. on the decl. arc; and determine a
 meridian with the solar at the cor. of secs. 2, 3, 34
 and 35, on the N. bdy. of the Tp., which is an iron
 post, established by me, as described in Book "A".
 Thence I run
 S. $0^{\circ} 1'$ E., bet. secs. 2 and 3.
 Over hilly land, through dense undergrowth.

6.50 Wash, 2 chs. wide, course SW.
 20.90 Enter wash, course SW.
 36.90 Leave wash, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the
 ground, on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass
 cap

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Subdivision of Fractional T. 13 N., R. 20 W.

	<p>1915 1915 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.</p>
45.00	Wash, 20 lks. wide, 15 ft. deep, course SW.
52.00	Wash, 20 lks. wide, 20 ft. deep, course SW.
65.00	Wash, 5 chs. wide, 15 ft. deep, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked on brass cap
	<p>1915 on S. rim; T13M R20W 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, hilly and rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, palo verde, cacti and greasewood.</p>
	<p>East on a random line, bet. secs. 2 and 11. Set temp. $\frac{1}{4}$ sec. cor.</p>
40.00	Intersect N. and S. line, 25 lks. S. of the witness cor. to cor. of secs. 1, 2, 11 and 12, which is an iron post, established by J. M. M., 20 lks. N. $0^{\circ} 1' W.$ of true point for cor. of secs. 1, 2, 11 and 12.
79.99	From the true point for cor. of secs. 1, 2, 11 and 12, I run S. $89^{\circ} 58' W.$, on a true line, bet. secs. 2 and 11. Over rolling land, through dense undergrowth.
5.00	Leave wash, course SW. Comes from E.
27.00	Enter wash, course SW.
39.99 $\frac{1}{2}$	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
	<p>1915 on S. rim; S2 in N., S11 in S. and $\frac{1}{4}$ in W. half; and raise a mound of stone, 2 t. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.</p>
45.00	Leave wash, course SW.
50.60	Wash, 20 lks. wide, 15 ft. deep, course SW.
66.00	Gulch, 20 ft. deep, course SW.
76.00	Wash, 15 lks. wide, course SW.
79.99	The cor. of secs. 2, 3, 10 and 11. Land, rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, greasewood, palo verde and cacti.
	<p>S. $0^{\circ} 1' E.$, bet. secs. 10 and 11. Over hilly land, through dense undergrowth.</p>
3.50	Wash, 25 lks. wide, 40 ft. deep, course SW.
22.00	Wash, 3 chs. wide, 20 ft. deep, 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
	<p>1915 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.</p>
46.30	Wash, 3 chs. wide, 15 ft. deep, course SW.
75.00	Wash, 2 chs. wide, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on brass cap

Subdivision of Fractional T. 13 N., R. 20 W.

Chains.	<p>1915 on S. rim; T13N R20W 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, 1½ ft. high, W. of cor. Pits impracticable. Land, hilly. Soil, rocky, 3rd rate. No timber. Undergrowth, greasewood, palo verde and cacti. Apr. 10, 1915: The sky was overcast at noon, making an observation for lat. impossible.</p>
40.00	N.89° 58' E., on a random line, bet. secs. 11 and 14.
80.01	Set temp. ¼ sec. cor. Intersect N. and S. line, 7 lks. S. 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 rolling land, through dense undergrowth.
4.00	Wash, 20 lks. wide, 20 ft. deep, course SW.
15.00	Enter wash, course SW.
32.00	Leave wash, course SW.
40.00½	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; S11 in N., S14 in S. and ¼ in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
52.20	Road, brs. NE. and SW.
53.00	Enter wash, course SW.
60.00	Leave wash, course SW.
80.01	The cor. of secs. 10, 11, 14 and 15. Land, rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, greasewood, palo verde and cacti.
25.00	S.0° 1' E., bet. secs. 14 and 15. Over rolling land, through dense undergrowth.
38.80	Wash. 5 chs. wide, course SW.
40.00	Road, brs. NE. and SW.
40.00	Point for ¼ sec. cor. falls in wash, 50 lks. wide, course SW.
40.50	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to ¼ sec. cor., marked on brass cap 1915 on S. rim; WC ¼ in N., S14 in E. and S15 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14 and 15 and frac. secs. 22 and 23, marked on brass cap, 1915 on S. rim; T13N R20W in N half; S15 in NW., S 14 in NE., S23 in SE. and S22 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. No timber. Undergrowth, greasewood, palo verde and cacti.

Chains.

Undergrowth, greasewood, palo verde and cacti.
Apr. 10, 1915.

April 12, 1915.
N. 89° 55' E., on a random line, bet. sec. 14 & frac. sec. 23.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 13, 14, and 24 and frac. sec. 23
Thence I run
S. 89° 59' W., on a true line, bet. sec. 14 & frac. sec. 23.
Over rolling land, through dense undergrowth.
27.50 Wash, 2 chs. wide, 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;
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.
71.60 Wash, 80 lks. wide, course SW.
80.00 The cor. of secs. 14, and 15 and frac. secs. 22 and 23.
Land, rolling.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, palo verde, greasewood and cacti.
Apr. 12, 1915.

Apr. 10, 1915:
S. 0° 1' E., bet. frac. secs. 22 and 23.
Over rolling land, through dense undergrowth.
28.00 Wash, 20 lks. wide, course SW.
33.50 Road, brs. NW. and SE.
36.44 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 22 and 23, marked on brass cap
1915 on S. rim;
MC S. of center;
T13N R20W in N. half;
S22 in NW., and
S23 in NE. sector;
dig a pit, 36 X 36 X 12 ins., 8 ft. N. of post; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
Land, rolling.
Soil, stony, 3rd rate.
No timber.
Undergrowth, greasewood, palo verde and cacti.
A. S. Apr. 10, 1915.

Apr. 16, 1915: J. M. M.
From the cor. of sec. 24 & frac. secs. 23, 25 & 26, I run
West on a true line, bet. frac. secs. 23 and 26.
Over rolling land, through dense undergrowth.
14.20 Wash, 90 lks. wide, course SW.
16.10 Road, brs. NW. and SE.
35.80 Enter bottom land, brs. NW. and SE. Enter scattering timber.
37.50 Mouth of wash, 2 chs. wide, brs. N. about 2 chs. dist.
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;
S23 in N.,
S26 in S. and
 $\frac{1}{4}$ in W. half; from which
A cotton-wood, 12 ins. diam., brs. N. 9° E., 154 lks. dist., marked $\frac{1}{4}$ S23 BT.
A cotton-wood, 12 ins. diam., brs. S. 59 $\frac{1}{4}$ ° E., 48 lks. dist., marked $\frac{1}{4}$ S 26 BT.
61.54 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the

Subdivision of Fractional T. 13 N., R. 20 W. 9.

Chains. ground, on the left bank of the Colorado River, at mean high water mar, for meander cor. of fractional secs. 23 and 26, marked on brass cap
 1915 on S. rim;
 MC W. of center;
 T13N R20W in N. half;
 S23 in NE., and
 S26 in SE. sector; from which
 A cotton-wood, 20 ins. diam., brs. N. $49\frac{1}{2}^{\circ}$ E., 70 lks. dist., marked T13N R20W S23 MC BT.
 A cotton-wood, 12 ins. diam., brs. S. 82° E., 74 lks. dist.; marked T13N R20W S26 MC BT.
 Land, level and rolling.
 Soil, on the rolling land, stony, 3rd and 4th rate; on the bottom land, sandy loam, 1st and 2nd rate.
 Timber, cotton-wood and willow.
 Undergrowth, greasewood, arrow-weed, mesquite and cacti.
 J. M. M. Apr. 16, 1915.

Apr. 12, 1915. A. S.
 At 7 hrs. 4 m., a.m., 1.m.t., I set off $34^{\circ} 30\frac{1}{2}'$ N. on the lat. arc; $8^{\circ} 27\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., which is an iron post, established by me, as described in Book "A".
 Thence I run
 S. $0^{\circ} 2'$ E., bet. secs. 3 and 4.
 Over rolling, hilly land, through dense undergrowth.
 3.80 Enter wash, course SW.
 13.00 Leave wash, course SW.
 33.50 Wash, 30 ft. deep, course SW.
 38.00 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.,
 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.
 48.80 Leave wash, course SW.
 76.50 Enter wash, course W.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap
 1915 on S. rim;
 T13N R20W in N. half;
 S 4 in NW.,
 S 3 in NE.,
 S10 in SE. and
 S 9 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 hills.
 Soil, rocky, 3rd rate.
 No timber.
 Undergrowth, palo verde, greasewood and cacti.

40.00 East on a random line, bet. secs. 3 and 10.
 79.95 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 2, 3, 10 and 11.
 Thence I run
 S. $89^{\circ} 59'$ W., on a true line, bet. secs. 3 and 10.
 Over hilly land, through dense undergrowth.
 39.97 $\frac{1}{2}$ 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
 S3 in N.,

10

Subdivision of Fractional T. 13 N., R. 20 W.

Chains.	S10 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.
50.00	Enter wash, course SW.
79.95	The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, greasewood and palo verde.
10.00	S.0° 2' E., bet. secs. 9 and 10. Across wash, through dense undergrowth. Leave wash, course SW.
23.60	Wash, 15 lks. wide, 15 ft. deep, course SW.
34.90	Wash, 3 chs. wide, 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., 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.
50.00	Wash, 1 ch. wide, course W.
67.40	Wash, 2 chs. wide, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap 1915 on S. rim; T13N R20W in N. half; S9 in NW., S10 in NE., S15 in SE. and S16 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 hills. Soil, rocky, 3rd rate. No timber. Undergrowth, greasewood, palo verde and sage brush.
40.00	N.89° 59' E., on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 10, 11, 14 and 15. Thence I run West on a true line, bet. secs. 10 and 15. Over broken flat, through dense undergrowth.
10.00	Wash, 200 lks. wide, course SW.
22.80	Wash, 150 lks. wide, 20 ft. deep, course SW.
39.98 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground, on bed rock, 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.
79.97	The cor. of secs. 9, 10, 15 and 16. Land, rolling, broken flat. Soil, rocky, 3rd rate. No timber. Undergrowth, palo verde, greasewood and cacti.

Subdivision of Fractional T. 13 N., R. 20 W. 11.

Chains.	S.0° 2' E., bet. secs. 15 and 16. Over rolling land, through dense undergrowth.
5.00	Enter mesa, brs. E. and W.
11.80	Road, brs. NW. to Yucca, and SE. to Parker.
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., 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.
43.00	Wash, course E.
71.50	Wash, 20 lks. wide, course E.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, and 16 and frac. secs. 21 and 22, marked on brass cap, 1915 on S. rim; T13N R20W. in N. half; S16 in NW., S15 in NE., S22 in SE. and S21 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy and rocky, 3rd rate. No timber. Undergrowth, greasewood, palo verde and cacti. Apr. 12, 1915: At this cor., I set off $8^{\circ} 30\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 28'$ N.
40.00	East on a random line, bet. sec. 15 and frac. sec. 22. Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 14 and 15 and frac. secs. 22 and 23 Thence I run N. $89^{\circ} 59'$ W., on a true line, bet. sec. 15 and frac. sec. 22. Over rolling, land, through dense undergrowth.
16.45	Wash, 50 lks. wide, course SW. Leave rolling land, brs. N. and S.; thence over level land.
32.25	Road, brs. NW. to Yucca, and SE. to Parker.
39.97 $\frac{1}{2}$	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; S15 in N., S22 in S. and $\frac{1}{4}$ in W. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
65.00	Leave level land, brs. NW. and SE. Asc. NE. slope, 45 ft. to
71.00	Top of asc.; brs. NW. and SE. Thence over mesa.
79.95	The cor. of secs. 15, and 16 and frac. secs. 21 and 22. Land, level and rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, palo verde, greasewood and cacti.
35.80	S.0° 2' E., bet. frac. secs. 21 and 22. Over mesa, through dense undergrowth.
40.00	Wash, course SE. Point for $\frac{1}{4}$ sec. cor. falls on vertical dirt bank.

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Subdivision of Fractional T. 13 N., R. 20 W.

Chains.	
40.80	<p>Desc. S. slope, 65 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p>1915 on S. rim; WC $\frac{1}{4}$ in N., S22 in E. and S21 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.</p>
45.00	Enter dense arrow-weed thicket, brs. E. and W.
48.70	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 21 and 22, marked on brass cap</p> <p>1915 on S. rim; MC S. of center; T13N R20W in N. half; S21 in NW. and S22 in NE. sector; dig a pit, 36 X 36 X 12 ins., 8 ft. N. of post; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, mesa and bottom land. Soil, 2nd and 3rd rate. No timber. Undergrowth, greasewood, palo verde and arrow-weed. Apr. 12, 1915.</p>
	<p>Apr. 14, 1915: At 7 hrs. 8 m., a.m., l.m.t., I set off $34^{\circ} 30\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 11'$ N. on the decl. arc; and determine a meridian with the solar at cor. of secs. 4 & 33 & frac. secs. 5 & 32 on N. bdy. of the Tp., which is an iron post, established by me, as described in Book "A".</p> <p>Thence I run S. $0^{\circ} 2'$ E., bet. secs. 4. and frac. sec. 5. Over bottom land, subject to overflow, 3 to 7 ft. deep, through dense undergrowth and scattering timber.</p>
40.00	<p>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</p> <p>1915 on S. rim; $\frac{1}{4}$ in N., S4 in E. and S5 in W. half; from which A cotton-wood, 24 ins. diam., brs. N. 34° E., 178 lks. dist.; marked $\frac{1}{4}$S4 BT. A cotton-wood, 15 ins. diam., brs. N. $49\frac{1}{2}^{\circ}$ W., 202 lks. dist.; marked $\frac{1}{4}$S5 BT.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4 and 9 and frac. secs. 5 and 8, marked on brass cap,</p> <p>1915 on S. rim; T13N R20W in N. half; S5 in NW., S4 in NE., S9 in SE. and S8 in SW. quadrant; from which A cotton-wood, 14 ins. diam., brs. N. 50° E., 60 lks. dist.; marked T13N R20W S4 BT. A cotton-wood, 18 ins. diam., brs. S. $23\frac{1}{2}^{\circ}$ E., 69 lks. dist., marked T13N R20W S9 BT. A cotton-wood, 16 ins. diam., brs. S. $21\frac{1}{2}^{\circ}$ W., 64 lks. dist., marked T13N R20W S8 BT. A cotton-wood, 28 ins. diam., brs. N. 52° W., 28 lks. dist., marked T13N R20W S5 BT.</p> <p>Land, river bottom.</p>

Subdivision of Fractional T. 13 N., R. 20 W. 13.

Chains.

Soil, alluvial, 2nd rate.
Timber, cotton-wood, and willow.
Undergrowth, mesquite, arrow-weed and screw-bean.
Apr. 14, 1915.

Apr. 15, 1915: At 9 hrs. 2 m., a.m., l.m.t., I set off 34° 29¹/₂' N. on the lat. arc; 9° 33¹/₂' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4 and 9 and frac. secs. 5 and 8

Thence I run

East on a random line, bet. secs. 4 and 9.

40.00 Set temp. ¹/₄ sec. cor.

80.03 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 3, 4, 9 and 10.

Thence I run

N. 89° 56' W., on a true line, bet. secs. 4 and 9.

Across wash, through dense undergrowth.

35.00 Leave wash, course SW.

40.01¹/₂ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¹/₄ sec. cor., marked on brass cap

1915 on S. rim:

S 4 in N.,

S 9 in S. and

¹/₄ in W. half;

and raise a mound of stone, 2 ft. base, 1¹/₂ ft. high, N. of cor. Pits impracticable.

47.30 Fence brs. N. and S. Corners 70 lks. S., from which another fence brs. W.

47.40 Enter riverbottom, brs. NW. and SE. Timber, brs. NW. and SE.

56.60 Road, brs. N. to Yucca, and S. to Parker.

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

Land, level and rolling.

Soil, alluvial, 2nd rate; and stony, 3 rd rate.

Timber, cotton-wood and willow.

Undergrowth, mesquite, screw bean, arrow-weed, palo verde and greasewood.

S. 0° 2' E., bet. sec. 9 and frac. sec. 8.

Over river bottom land, through dense undergrowth and heavy timber.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¹/₄ sec. cor., marked on brass cap

1915 on S. rim;

¹/₄ in N.,

S 9 in E. and

S 8 in W. half; from which

A cotton-wood, 12 ins. diam., brs. S. 50° E., 40 lks. dist., marked ¹/₄S9 BT.

A cotton-wood, 16 ins. diam., brs. N. 74° W., 83 lks. dist., marked ¹/₄S8 BT.

Apr. 15, 1915.

Apr. 16, 1915: At 8 hrs. 5 m., a.m., l.m.t., I set off 34° 29' N. on the lat. arc; 9° 54' N. on the decl. arc; and determine a meridian with the solar at the ¹/₄ sec. cor. bet. sec. 9 and frac. sec. 8

Thence I continue

S. 0° 2' E., bet. sec. 9 and frac. sec. 8.

70.45 A cotton-wood, 15 ins. diam., on line.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9 and 16 and frac. secs. 8 and 17, marked on brass cap,

1915 on S. rim;

T13N R20W in N. half;

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Subdivision of Fractional T. 13 N., R. 20 W.

Chains.

	<p>S8 in NW., S9 in NE., S16 in SE. and S17 in SW. quadrant; from which A double cotton-wood, 28 ins. diam., brs. N. $78\frac{1}{2}^{\circ}$ E., 89 lks. dist., marked T13N R20W S9 BT. A cotton-wood, 18 ins. diam., brs. S. $18\frac{1}{2}^{\circ}$ E., 43 lks. dist., marked T13N R20W S16 BT. A cotton-wood, 14 ins. diam., brs. S. $74\frac{3}{4}^{\circ}$ W., 66 lks. dist., marked T13N R20W S17 BT. A mesquite, 6 ins. diam., brs. N. 56° W., 17 lks. dist.; marked T13N R20W S8 BT. Land, river bottom. Soil, alluvial, 2nd rate. Timber, cotton-wood and willow. Undergrowth, mesquite, arrow-weed and greasewood. Apr. 16, 1915: At this cor., I set off $9^{\circ} 57\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 28\frac{1}{2}'$ N. Apr. 16, 1915.</p>
	<p>Apr. 17, 1915. S. $89^{\circ} 56'$ E., on a random line, bet. secs. 9 and 16. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.95 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 9, 10, 15 and 16. Thence I run S. $89^{\circ} 58'$ W., on a true line, bet. secs. 9 and 16. Over rolling land, through scattering undergrowth. 10.25 Road, brs. NW. to Yucca, and SE. to Parker. 33.25 Enter bottom land, dense undergrowth, and heavy timber, brs. NE. and SW. Land, subject to overflow, 3 to 7 ft. Road, brs. NE. and SW. to J. T. Martin's house. 39.97$\frac{1}{2}$ 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; S9 in N., S16 in S. and $\frac{1}{4}$ in W. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. 55.55 Leave timber and undergrowth; enter clearing brs. N. and S. 60.85 J. T. Martin's house brs. S. 6 chs. dist. 64.15 Fence brs. N. and SE. Leave clearing, brs. NE. and SE.; enter heavy timber and dense undergrowth. 64.95 Slough, 5 chs long, 150 lks. wide, $1\frac{1}{2}$ ft. deep, brs. N. and S. 79.95 The cor. of secs. 9, and 16 and frac. secs. 8 and 17. Land, level river bottom and rolling. Soil, 2nd and 3rd rate. Timber, cotton-wood. Undergrowth, mesquite, screw bean, arrow-weed, palo verde and greasewood.</p>
	<p>Apr. 17, 1915: At 10 hrs. 3 m., a.m., 1.m.t., I set off $34^{\circ} 28\frac{1}{2}'$ N. on the lat. arc; $10^{\circ} 17'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, and 16 and frac. secs. 8 and 17 Thence I run S. $0^{\circ} 2'$ E., bet. sec. 16 and frac. sec. 17. Over bottom land, subject to overflow from 3 to 7 ft. deep, through dense undergrowth, and heavy timber. 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., S16 in E. and</p>

Chains.

S17 in W. half; from which
 A black willow, 14 ins. diam., brs. S. $74\frac{3}{4}^{\circ}$ E., 37 lks. dist., marked $\frac{1}{4}$ S16 BT.
 A black willow, 8 ins. diam., brs. S. 68° W., 28 lks. dist.; marked $\frac{1}{4}$ S17 BT.

50.00 Leave timber, undergrowth and bottom land, brs. NE. and SW. Thence over rolling land.

52.20 Wash, 50 lks. wide, course NW. Asc. gradual N. slope to

60.00 Enter mesa, brs. NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of sec. 16 and frac. secs. 17, 20 and 21, marked on brass cap,
 1915 on S. rim;
 T13N R20W 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, rolling and level.
 Soil, 2nd and 3rd rate.
 Timber, cotton-wood and black willow.
 Undergrowth, mesquite, screw bean, greasewood, and arrow-weed.

Apr. 17, 1915: At this cor., I set off $10^{\circ} 18\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 28'$ N.

N. $89^{\circ} 58'$ E., on a random line, bet. sec. 16 and frac. sec. 21.

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

79.90 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 15 and 16 and frac. secs. 21 and 22
 Thence I run
 S. $89^{\circ} 59'$ W., on a true line, bet. sec. 16 and frac. sec. 21.
 Over mesa, through dense undergrowth.

39.95 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;
 S16 in N.,
 S21 in S. and
 $\frac{1}{4}$ in W. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

79.90 The cor. of sec. 16 and frac. secs. 17, 20 and 21.
 Land, mesa.
 Soil, 2nd rate.
 No timber.
 Undergrowth, palo verde and greasewood.

S. $0^{\circ} 2'$ E., bet. frac. secs. 20 and 21.
 Over mesa, through dense undergrowth.

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.,
 S21 in E. and
 S20 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.

56.00 Leave mesa, brs. E. and W.

58.10 Enter bottom land, subject to overflow, 3 to 7 ft. deep, and dense arrow-weed undergrowth.

Chains 65.90	<p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 20 and 21, marked on brass cap 1915 on S. rim; MC S. of center; T13N R20W in N. half; S20 in NW., and S21 in NE. sector; from which A black willow, 6 ins. diam., brs. N. $71\frac{3}{4}^{\circ}$ E., 6 lks. dist., marked T13N R20W S21 MC BT. A black willow, 6 ins. diam., brs. N. $61\frac{1}{2}^{\circ}$ W., 15 lks. dist.; marked T13N R20W S20 MC BT. Land, mesa and bottom land. Soil, alluvial and stony; 2nd and 3rd rate. Timber, cotton-wood and willow. Undergrowth, mesquite, arrow-weed and willow. Apr. 17, 1915.</p>
13.20 22.40 28.45	<p>Apr. 15, 1915. At cor. of secs. 4 & 9 & frac. secs. 5 & 8, I set off $9^{\circ} 36'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 29\frac{1}{2}'$ N. Thence I run West bet. frac. secs. 5 and 8. Over river bottom land, through dense undergrowth and heavy timber. Land, subject to overflow, 3 to 7 ft. deep. Fence, brs. N. and S. A cotton-wood, 22 ins. diam., on line. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 5 and 8, marked on brass cap 1915 on S. rim; MC W. of center; T13N R20W in N. half; S5 in NE. and S8 in SE. sector; from which A black willow, 7 ins. diam., brs. N. 47° W., 33 lks. dist., marked T13N R20W S5 MC BT. A black willow, 10 ins. diam., brs. S. $64\frac{1}{2}^{\circ}$ W., 18 lks. dist.; marked T13N R20W S8 MC BT. Land, level bottom. Soil, alluvial, 2nd rate. Timber, cotton-wood and willow. Undergrowth, mesquite, arrow-weed and willow. Apr. 15, 1915.</p>
19.35	<p>Apr. 16, 1915. From cor. of secs. 9 and 16 and frac. secs. 8 and 17, I run West, bet. frac. secs. 8 and 17. Over river bottom, through dense undergrowth and heavy timber. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 8 and 17, marked on brass cap 1915 on S. rim; MC W. of center; T13N R20W in N. half; S8 in NE. and S17 in SE. sector; from which A cotton-wood, 6 ins. diam., brs. North, 1 lk. dist., marked T13N R20W S8 MC BT.</p>

Subdivision of Fractional T. 13 N., R. 20 W. 17.

Chains

A cotton-wood, 5 ins. diam., brs. S. $23\frac{1}{2}^{\circ}$ E., 17 lks. dist., marked T13N R20W S17 MC BT.

Land, river bottom.

Soil, alluvial, 2nd rate.

Timber, cotton-wood and willow.

Undergrowth, arrow-weed, mesquite and willow.

Apr. 16, 1915.

Apr. 17, 1915.

From the cor. of sec. 16 and frac. secs. 17, 20 & 21, I run West bet. frac. secs. 17 and 20.

Over mesa, through dense undergrowth

15.00 Leave mesa, brs. N. and S.

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;

S17 in N., and

S20 in S. and

$\frac{1}{4}$ in W. half;

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

41.00 Enter bottom land, covered with heavy timber, and dense arrow-weed and mesquite, brs. NE. and SW.

46.41 A cotton-wood, 15 ins. diam., on line.

47.48 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of fractional secs. 17 and 20, marked on brass cap

1915 on S. rim;

MC W. of center;

T13N R20W in N. half;

S17 in NE., and

S20 in SE. sector; from which

A black willow, 6 ins. diam., brs. N. $36\frac{1}{4}^{\circ}$ E., 34 lks. dist., marked T13N R20W S17 MC BT.

A cotton-wood, 12 ins. diam., brs. S. $62\frac{3}{4}^{\circ}$ E., 65 lks. dist., marked T13N R20W S20 MC BT.

Land, mesa and rolling.

Soil, alluvial and gravelly, 2nd and 3rd rate.

Timber, cotton-wood and willow.

Undergrowth, greasewood, mesquite and arrow-weed.

A. S.

Apr. 17, 1915.

Meanders of the Left Bank of the Colorado River

18

within Fractional T. 13 N., R. 20 W.

Chains.

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

Apr. 18, 1915. A. S.

I commence at the meander cor. of frac. secs. 5 and 32, on the N. bdy. of the Tp., which is an iron post, established by me, as described in Book "A".

Thence I run with meanders in frac. sec. 5.

Over rolling land, through heavy timber and dense undergrowth.

S. 5 $\frac{1}{2}$ ° W.	2.30 chs.	Bank 8 ft. high.
S. 11 $\frac{1}{2}$ ° E.	5.40 "	
S. 5° E.	1.90 "	
S. 5 $\frac{1}{2}$ ° E.	8.00 "	
S. 5 $\frac{1}{2}$ ° W.	3.40 "	
S. 11° E.	0.90 "	
South.	4.40 "	
S. 4 $\frac{1}{2}$ ° E.	2.50 "	
South.	3.30 "	
S. 4 $\frac{1}{2}$ ° E.	3.00 "	
S. 3° W.	3.50 "	
S. 2 $\frac{1}{2}$ ° E.	3.00 "	Bank of river 10 ft. high.
S. 3° E.	3.50 "	
S. 2 $\frac{3}{4}$ ° W.	3.90 "	
S. 3 $\frac{3}{4}$ ° W.	1.70 "	
S. 2 $\frac{1}{4}$ ° E.	3.80 "	
S. 8 $\frac{1}{2}$ ° E.	3.30 "	
S. 3° E.	2.40 "	
S. 14° W.	1.40 "	
S. 2 $\frac{1}{2}$ ° E.	1.30 "	
S. 5 $\frac{1}{2}$ ° W.	1.30 "	
S. 13° E.	1.10 "	
S. 5° W.	1.80 "	
S. 12 $\frac{1}{2}$ ° W.	1.50 "	
S. 5 $\frac{1}{2}$ ° W.	2.50 "	
S. 1 $\frac{3}{4}$ ° W.	2.50 "	
S. 6 $\frac{3}{4}$ ° W.	2.10 "	
S. 6 $\frac{3}{4}$ ° W.	1.50 "	
S. 7 $\frac{1}{2}$ ° W.	1.60 "	
S. 17° E.	1.74 "	To the meander cor. of frac. secs. 5 and 8.

Land, rolling.

Soil, alluvial and sandy; 3rd and 4th rate.

Timber, cotton-wood, and willow.

Undergrowth, willow, arrow-weed and mesquite.

Apr. 18, 1915: At this cor., I set off 10° 39 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 29' N.

Thence in frac. sec. 8.

Over rolling land, through dense undergrowth and heavy timber.

S. 2 $\frac{1}{4}$ ° E.	2.70 chs.
S. 1 $\frac{3}{4}$ ° E.	3.30 "
South.	2.20 "
S. 8 $\frac{1}{4}$ ° W.	3.30 "
S. 2° E.	2.70 "
S. 10° W.	1.30 "
S. 8 $\frac{1}{2}$ ° W.	2.70 "
S. 6° E.	4.10 "
S. 8 $\frac{1}{4}$ ° E.	1.50 "
S. 7 $\frac{1}{4}$ ° E.	2.20 "
S. 3 $\frac{1}{2}$ ° E.	2.20 "
S. 7 $\frac{1}{2}$ ° E.	1.70 "
S. 9 $\frac{1}{4}$ ° E.	3.00 "

Meanders of the Left Bank of the Colorado River

within Fractional T. 13 N., R. 20 W.

19.

Chains.

S. $\frac{1}{4}$ ° W.	✓ 1.60	chs.
S. $19\frac{1}{4}$ ° E.	✓ 2.30	"
S. $6\frac{1}{2}$ ° E.	✓ 2.70	"
S. 11 ° E.	✓ 2.40	"
S. $1\frac{1}{2}$ ° W.	✓ 2.90	"
S. $3\frac{1}{4}$ ° E.	✓ 1.90	"
S. $12\frac{1}{2}$ ° E.	✓ 1.80	"
S. $6\frac{1}{2}$ ° E.	✓ 1.50	"
S. $6\frac{3}{4}$ ° E.	✓ 3.30	"
S. $1\frac{3}{4}$ ° W.	✓ 1.90	"
S. $7\frac{1}{2}$ ° E.	✓ 1.80	"
S. $15\frac{1}{2}$ ° E.	✓ 2.50	"
S. $10\frac{1}{4}$ ° E.	✓ 2.70	"
S. $8\frac{3}{4}$ ° E.	✓ 4.40	"

Apr. 18, 1915.

Apr. 19, 1915: At 7 hrs. a.m., l.m.t., I set off $34^{\circ} 28\frac{1}{2}'$ N. on the lat. arc; $10^{\circ} 57\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at this point.

Thence I continue meanders as follows:-

S. $9\frac{1}{2}$ ° W.	✓ 2.00	chs.
S. $23\frac{1}{2}$ ° E.	✓ 2.00	"
S. $25\frac{1}{2}$ ° E.	✓ 1.50	"
S. 8 ° E.	✓ 1.60	"
S. $18\frac{1}{2}$ ° E.	✓ 2.40	"
S. $19\frac{1}{2}$ ° E.	✓ 3.40	"
S. 19 ° E.	✓ 1.40	"
S. $5\frac{1}{2}$ ° E.	✓ .69	"

To meander cor. of fractional secs.

8 and 17.

Land, rolling.

Soil, alluvial and sandy; 3rd and 4th rate.

Timber, cotton-wood and willow.

Undergrowth, willow, arrow-weed and mesquite.

Thence in frac. sec. 17.

Over rolling land, through heavy timber and dense undergrowth.

S. $12\frac{3}{4}$ ° E.	✓ 2.40	chs.
S. $6\frac{1}{4}$ ° E.	✓ 1.60	"
S. 12 ° E.	✓ 1.80	"
S. 3 ° E.	✓ 1.70	"
S. $1\frac{1}{2}$ ° E.	✓ 3.90	"
S. $9\frac{1}{2}$ ° E.	✓ 3.10	"
S. $11\frac{1}{2}$ ° E.	✓ 2.00	"
S. $14\frac{1}{2}$ ° E.	✓ 2.20	"
S. $4\frac{1}{2}$ ° E.	✓ 2.10	"
S. $14\frac{1}{4}$ ° E.	✓ 1.30	"
S. $2\frac{1}{2}$ ° W.	✓ 2.70	"
S. $1\frac{1}{4}$ ° E.	✓ 1.90	"
S. 17 ° E.	✓ 2.40	"
S. 3 ° W.	✓ 2.30	"
S. $9\frac{3}{4}$ ° E.	✓ 3.00	"
S. $1\frac{1}{2}$ ° E.	✓ 2.40	"
S. $6\frac{1}{4}$ ° W.	✓ 1.30	"
S. $12\frac{3}{8}$ ° W.	✓ 1.40	"
S. $12\frac{1}{2}$ ° E.	✓ 1.90	"
S. $3\frac{1}{2}$ ° W.	✓ 1.20	"
S. 15 ° E.	✓ 1.70	"
S. 5 ° W.	✓ 4.70	"
S. 29 ° W.	✓ 2.70	"
S. $12\frac{1}{4}$ ° W.	✓ 2.00	"
S. $32\frac{1}{8}$ ° W.	✓ 2.50	"
S. 57 ° W.	✓ 1.80	"
S. $80\frac{1}{2}$ ° W.	✓ 2.90	"
N. $89\frac{1}{2}$ ° W.	✓ 1.10	"
S. 73 ° W.	✓ 1.50	"
S. 48 ° W.	✓ 1.00	"

Meanders of the Left Bank of the Colorado River
within Fractional T. 13 N., R. 20 W.

S.65 $\frac{1}{2}$ ° W. 2.00 chs.
S.63° W. 1.50 "
S.74° W. 4.00 "
S.60 $\frac{3}{4}$ ° W. 5.20 "
S.45° W. 7.20 " River bank 25 ft. high.
S.38° W. 5.40 "
S.27° W. 1.20 "
S. 8 $\frac{1}{8}$ ° W. 6.00 "
S.2 $\frac{1}{4}$ ° W. 1.15 " To the meander cor. of fractional
secs. 17 and 20.

Land, rolling.

Soil, alluvial, 2nd rate.

Timber, cotton-wood and willow.

Undergrowth, greasewood, mesquite, arrow-weed and willow.

A. S.

Apr. 19, 1915.

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

Apr. 15, 1915. J. M. M.

I commence at the meander cor. of frac. secs. 31 and 36,
on the E. bdy. of the Tp., which is an iron post,
established by me, as described in Book "A".

At this cor., Apr. 15, I set off 34° 26' N. on the lat. arc;
9° 34' N. on the decl. arc; and at 9 hrs. 32 m., a.m.,
1.m.t., I determine a meridian with the solar.

Thence I run with the meanders in frac. sec. 36.

Over river bottom, through scattering timber, and dense
undergrowth.

N.46 $\frac{3}{4}$ ° W. 5.10 chs.

N.49 $\frac{1}{2}$ ° W. 16.50 "

N.44° W. 9.90 " To the meander cor. of frac. secs.
25 and 36.

Land, river bottom.

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

Timber, cotton-wood and willow.

Undergrowth, arrow-weed and mesquite.

Apr. 15, 1915: At this cor., I set off 9° 36' N. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is 34° 27' N.

Thence in frac. sec. 25.

Over level land, through scattering timber, and dense under-
growth.

N.50° W. 3.20 chs.

N.61 $\frac{3}{4}$ ° W. 21.30 "

N.51° W. 10.00 "

N.41° W. 14.20 "

S.79° 8' W. 18.90 " To the meander cor. of fractional
secs. 25 and 26.

Land, river bottom.

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

Timber, scattering cotton-wood and willow.

Undergrowth, arrow-weed and mesquite.

Apr. 15, 1915.

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

Apr. 17, 1915: At 9 hrs. a.m., 1.m.t., I set off 34° 27' N.
on the lat. arc; 10° 16' N. on the decl. arc; and
determine a meridian with the solar at the meander cor.
of fractional secs. 23 and 26.

Thence I run with meanders in frac. sec. 26.

Over level land, through scattering timber and dense under-
growth.

Meanders of the Left Bank of the Colorado River

within Fractional T. 13 N., R. 20 W.

21.

S. 21 $\frac{1}{4}$ ° E. 40.00 chs.
 S. 28 $\frac{1}{4}$ ° E. 6.00 "
 S. 37 $\frac{1}{4}$ ° E. 13.40 "
 S. 46 $\frac{1}{4}$ ° E. 10.00 "
 S. 54 $\frac{1}{4}$ ° E. 6.20 "
 N. 69° 20' E. 25.50 " To the meander cor. of fracl. secs. 25 and 26.

Land, river bottom.
 Soil, sandy loam, 1st and 2nd rate.
 Timber, scattering cotton-wood and willow.
 Undergrowth, arrow-weed and mesquite.
 Apr. 17, 1915: At this cor., I set off 10° 18 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 26' N.

From the meander cor. of fractional secs. 23 and 26, I run with the meanders in frac. sec. 23.
 Over rolling land, through scattering timber and dense undergrowth.

N. 31 $\frac{3}{4}$ ° W. 28.00 chs.
 N. 8° W. 9.00 "
 N. 4° W. 8.40 "
 N. 37 $\frac{1}{4}$ ° W. 2.90 " To the meander cor. of fracl. secs. 22 and 23.

Land, river bottom.
 Soil, sandy loam, 1st and 2nd rate.
 Timber, scattering cotton-wood and willow.
 Undergrowth, arrow-weed and mesquite.

Thence in frac. sec. 22.

Over level land, through scattering timber and dense undergrowth.

S. 62 $\frac{1}{2}$ ° W. 3.80 chs. At end of course, wash, 2 chs. wide, comes from NE.
 N. 50° W. 3.50 "
 N. 14 $\frac{1}{4}$ ° W. 10.90 " At 9.70 chs., fence which extends about 10 chs. N., thence NW.
 N. 68 $\frac{1}{2}$ ° W. 6.20 "
 S. 69 $\frac{1}{2}$ ° W. 11.60 " At 4.20 chs., fence extends about 12 chs. N., thence NE.
 S. 63 $\frac{3}{4}$ ° W. 14.60 "
 S. 65 $\frac{3}{4}$ ° W. 16.90 "
 S. 70 $\frac{1}{2}$ ° W. 13.50 "
 S. 75° 36' W. 14.08 " To the meander cor. of fracl. secs. 21 and 22.

Land, river bottom
 Soil, sandy loam, 1st and 2nd rate.
 No timber, scattering cotton-wood and willow.
 Undergrowth, arrow-weed and mesquite.

Apr. 17, 1915.

Apr. 18, 1915: At 8 hrs. a.m., l.m.t., I set off 34° 27 $\frac{1}{2}$ ' N. on the lat. arc; 10° 36 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the meander cor. of secs. 21 and 22.

Thence I run with the meanders in frac. sec. 21.
 Over level land, through scattering timber and dense undergrowth.

Meanders of the Left Bank of the Colorado River

22

within, Fractional T. 13 N., R. 20 W.

Chains.

S. $75\frac{1}{8}^{\circ}$ W. 21.40 chs.
 S. 65° W. 13.10 "
 S. $70\frac{1}{8}^{\circ}$ W. 16.20 "
 S. 73° W. 8.50 "
 N. $88\frac{1}{8}^{\circ}$ W. 6.10 "
 S. $87\frac{1}{8}^{\circ}$ W. 1.60 "
 N. $87\frac{1}{8}^{\circ}$ W. 12.00 "
 N. 75° W. 2.90 "
 N. $78\frac{3}{4}^{\circ}$ W. 1.60 " To the meander cor. of fracl.
 secs. 20 and 21.

Land, river bottom.

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

Timber, scattering cotton-wood and willow.

Undergrowth, arrow-weed and mesquite.

Apr. 18, 1915: At this cor., I set off $10^{\circ} 39\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 26'$ N.

Apr. 18, 1915.

Apr. 19, 1915: At 7 hrs. 8 m., a.m., l.m.t., I set off $34^{\circ} 26'$ N. on the lat. arc; $10^{\circ} 57\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the meander cor. of fracl. secs. 20 and 21.

Thence I run with meanders in frac. sec. 20.

Over level land, through scattering timber and dense undergrowth.

N. $75\frac{3}{4}^{\circ}$ W. 7.40 chs.
 N. 74° W. 6.00 "
 N. $66\frac{3}{4}^{\circ}$ W. 4.00 chs.
 N. 52° W. 6.20 "
 N. 49° W. 33.00 "
 N. $4\frac{1}{4}^{\circ}$ W. 26.30 "
 N. $4\frac{1}{2}^{\circ}$ E. 9.30 " To meander cor. of fractional
 secs. 17 and 20.

Land, river bottom.

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

Timber, scattering cotton-wood and willow.

Undergrowth, arrow-weed, and willow, and mesquite.

J. M. M.

Apr. 19, 1915.

GENERAL DESCRIPTION.

This Tp. lies on the foot-hills, extending down to the Colorado River, which flows through the western and southern parts of the Tp. The land is traversed by wide sandy washes. The vegetation is very dense, especially along the Colorado River, and consists of palo verde, greasewood, mesquite, screw-bean, arrow-weed and willow. The River is bordered by cotton-wood and willow timber.

There are two settlers; - J. T. Martin, in sec. 16, and A. Barta in sec. 4.

The soil on the foot-hills, is shallow, sandy, decomposed granite, 3rd rate; alluvial, 2nd rate on the bottom land.

J. S. Sawyer,
 J. S. Transition.

J. S. Transition.

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BOOK 2889

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 accord-
ance 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 the Left Bank of the Colorado River within
_____ Frac. Township 13 North, Range 20 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
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.

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.~~