

Subdivisions



## FIELD NOTES

OF THE SURVEY OF THE

	<del></del>				
	Subdivision Lines and				
	Meanders of the Left	Bank of the Colorad	lo River within		
<b></b>	Fractional Towns	hip 15 North, Rang	e 20½ West,		
^#========					
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•				<b>-</b>	
*************					
	Of the Gila and S	Salt River Base an	d. Meridian,		
In the	State of	Arizona.			
	EXE	CUTED BY			
	Otis R	oss, U.S.Surveyor			
		and		·	
•••••	John Go	nin, U.S.Transitma	n		
<del>In the</del>	eapacity of U.S. Surveyor, u	nder instructions date	d December 28	, 1914	
is sued	by the United States Surve	eyor General to gover	rn surveys inclu	ded in	
Group	No. $rac{42}{}$ , which were app	roved by the Commissi	oner of the Genera	l Lane	
· Office,	January 22 , 1915				
	Survey commenced	April 25,	, <i>191</i> 5•		
4	Survey completed		, 191_5.	6151	

Executed under assignment Instructions dated April 1,1915.

Book "J"

Group 42, Arizona

SEE SPECIAL INDEX DIAGRAM

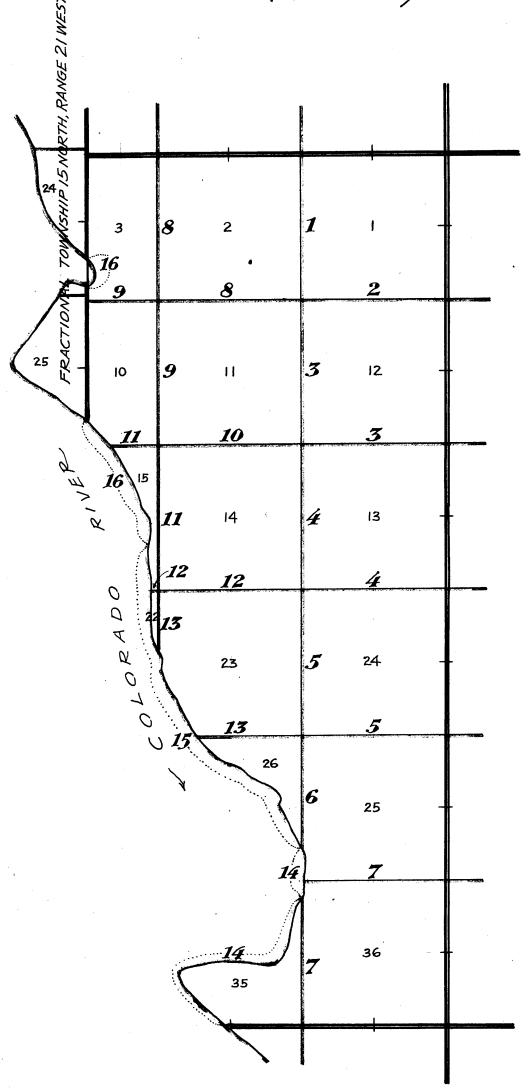
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# Book "J" Group 42. Arizona ~INDEX ~ DIAGRAM~

BOCK 2942

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Fractional Township 15 North, Range 202 West



Township Exteriors. Notes in Book "A"

Subdivision and Meander Lines surveyed under

Subdivision and Meander Lines surveyed under this Group.

Survey commenced Apr. 25, 1915, and executed jointly by Otis Ross, U. S. Surveyor, and John Gonin, U. S. Transitman, with Young and Sons' light mountain transits, Nos. 8487 and 7636, respectively, with Smith solar attachments. For description of instruments and certificate of approval, see subdivision of Fractional T. 14 N., R. 20 W., in Book "H".

In the following field notes, the initials O.R. and J.G. refer to Otis Ross, U. S. Surveyor, and John Gonin,

U. S. Transitman, respectively.

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 observations on Polaris, we proceed as follows: -

At our camp, near the south bdy. of Sec. 24, Frac. T. 15 N., R. 20½ W., in lat. 34° 37½' N., long. 114° 24' W., at 9 hrs. 0 m., a.m., l.m.t., by our watches, which are set to correct local mean time, we set off 34° 37½' N. on the lat. arcs; 13° 00' N, on the decl. arcs; and determine a meridian with each solar and mark a point in each meridian on pegs driven in the ground, 5 chs. N. of our stations.

At apparent noon, we set off 13° 2' N. on the decl. arcs; and observe the sun on the meridian with each solar; the resulting lats. are 34° 37½ N.

At 3 hrs. 0 m., p.m., l.m.t., we set off 34° 37½' N., on the lat arcs; 13° 5' N., on the decl. arcs; and determine a meridian with each solar. The lines thus deter mined coincide with the lines determined by a. m., observations.

At 6 hrs. 53.7 m.,p.m., l.m.t., we observe Polaris near western elongation, with each transit, and mark a point in the lines thus determined by tacks driven in pegs, 5 chs. N. of our stations.

Apr. 25, 1915.

. 26, 1915. At 6 hrs. 30 m., a.m., l.m.t., we lay off the azimuth of Polaris, 1° 16' to the right, and mark Apr. 26, 1915. a point in these meridians on the pegs driven in the ground, 5 chs. N. of our stations, on which the points set from a.m., and p.m. solar observations fall.4 ins. W. of the true meridian.

Each solar apparatus, by a.m. and p.m. observations defines positions for meridian 0'21" W. of the true meridian established by Polaris observations; therefore we conclude that the adjustments of the instruments are satisfactory.

O. R. and J. G. Apr. 26, 1916.

Apr. 27, 1915. 0.R. From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., which is a stone, established by me, as described in Book "A", I run S. 0° 1' E., bet. secs. 1 and 2.

Over mountainous land, through scattering undergrowth.

Desc. 295 ft. to
9.48 Wash, 20 lks. wide, course W. Asc. NW. slope, 95 ft. to 12.77 Spur, slopes W. Desc. S. slope, 35 ft. to 14.05 Asc. 35 ft. to

16.80 Desc. 35 ft. to

18.90 Asc. 40 ft. to

23.85 Desc. 75 ft. to

26.85 Gulch, course SW. Asc. 135 ft. to 35.20 Spur, slopes SW. Desc. 75 ft.

40.00 Set a malpais stone, 16 x 10 x 5 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. BOOK 2942

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Subdivision of Fractional T. 15 N..
             Pits impracticable.
 47.84 Center of wash, 3 chs. wide, course W. Asc. N. slope,
              475 ft.
 69.34 Foot of cliff, brs. E. and W. Continue asc. to
74.46 Top of cliff. Chemehuevis Mountain Divide, brs. E. and
W. Desc. 290 ft.
69.34
 78.51 Foot of cliff, brs. E. and W. Continue desc. to
80.00 Set a malpais stone, 18 x 14 x 6 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 1 notch on E. and 5 notches on S. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
             Pits impracticable.
         Land, mountainous.
         Soil, rocky, 4th rate.
         No timber.
         Undergrowth, greasewood and palo verde.
         No grass.
         Apr. 27, 1915: The sky was overcast at noon, making an
              observation for lat. impossible. Apr. 27, 1915.
         May 5, 1915.
         It being impracticable to chain measurement East on ran-
              dom line from the cor. of Secs. 1, 2, 11 and 12, because
             of perpendicular cliffs, I commence at said sec. corand run on offset line as follows:

| VDOM SEC. LINE | S'-0° 1' E., | 15.58 chs.
           RANDOM SEC.LINE
                            East, 32.56 chs. N.0° 1' W., 15.58 chs., returning to
             random line bet. secs. 1 and 12 at
         Thence continue measurement on random line East.
         Set temp. ½ sec. cor.
Intersect E. Bdy. of Tp. 30 lks. N. of the cor. of secs.
1, 6, 7, and 12, which is a stone, established by me
 40.00
 80.20
              as described in Book "A"
         Thence I run
N. 89° 47' W., on a true line, bet. secs. 1 and 12.
          Over mountainous land, through scattering undergrowth.
          Desc. 320 ft. to
 12.55 Wash, 50 lks. wide, course N.W. Asc. 25 ft. to 15.60 Desc. 75 ft. to 25.40 Asc. 10 ft. to
 26.40 Desc. 35 ft. to
 30.40 Asc. 10 ft. to
 33.75 Spur, slopes N.W. Desc. 70 ft. to
 37.40 Wash, 50 lks. wide, course N.E. Asc. along N. slope. 40.10 Set a malpais stone, 18 x 10 x 6 ins., 12 ins. in the
              ground, for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; and raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high N. of
                     Pits impracticable.
 Foot of steep ascent of Chemehuevis Mt. Divide, brs. N.W. and S.E. Impracticable to continue chaining on true line bet. secs. 1 and 12, therefore offset as follows: S. 0° 1' E., 15.58 chs., Asc. 230 ft. to
                                                       12.88 Desc. 140 ft. to 15.58 Edge of cliff 150
                                                                ft. high brs. N.& S
N.89 47'W $ sec. line
                                                                thence
                     N.89° 47' W.,
                                                              Asc, 50 ft. to
                                          32.56 chs.,
                                                         4.43 Top of Chemehuevis
N.89°47'W.
                                                                Mt.Divide brs.NW.
                                                                and S.E. Desc. 490
                                                                ft.
                                                                      to
                                                       32.56 Foot of desc. Thence
                     N. 0° 1' W.,
                                                               Ascending 250 ft. to
                                         15.58 chs.
 80.20 The cor. of secs. 1, 2, 11 and 12.
          Land, mountainous.
          Soil, rocky, 4th rate.
          No timber.
          Undergrowth, greasewood and palo verde
                                                  May 5, 1915.
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Subdivision of Fractional T.
Chains
          Apr. 27, 1915.
S.0° 1' E., bet. secs. 11 and 12.
          Over mountainous land, through scattering undergrowth.
          Desc. 270 ft. to
          Gulch, 10 lks. wide, course SE. Asc. 15 ft. to
16.05
          Desc. 160 ft. to
Center of wash, 2 chs. wide, course SW. Thence over roll-
17.30
33.67
              ing land.
          Set a malpais stone, 16 X 8 X 6 ins., ll 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.
40.00
              Pitsimpracticable.
          Wash, 25 lks. wide, course W. Asc. NW. slope, 20 ft. to
42.36
         Spur, slopes SW. Desc. 50 ft. to
49.09
         Wash, 10 lks. wide, course SW. Asc. to Desc. 25 ft. to
57.28
60.00
          Gulch, 50 lks. wide, course SW. Asc. N. slope, 40 ft. to
64.03
         Spur, slopes W. Desc. S. slope, 65 ft. to
Asc. 20 ft. to
66.21
69.65
71.85
         Desc. 65 ft. to
          Center of wash, 1 ch. wide, course W. Asc. N. slope, 75 ft.
77.32
         Set a malpais stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with
80.00
              1 notch on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W. of cor.
              Pits impracticable.
         Land, rolling and mountainous,
         Soil, rocky 4th rate.
         No timber.
         Undergrowth, greasewood and palo verde.
         No grass.
                                                               Apr. 27, 1915.
         Apr. 28, 1915: At 8 hrs. 0 m., a.m., l.m.t., I set off 34° 39' N. on the lat. arc; 13^{\circ} 57\frac{1}{2}' N. on the decl.
              arc; and determine a meridian with the solar at the cor.
              of secs. 11, 12, 13 and 14.
         Thence I run S.89° 47' E., on a random line, bet. secs. 12 and 13.
         Set temp. \(\frac{1}{4}\) sec. cor.

Intersect E. bdy. of Tp., ll lks. S. of the cor. of secs.

7, 12, 13 and 18, which is a rock in place, established by me, as described in Book "A".
40.00
80.20
         Thence I run
N.89° 52' W., on a true line, bet. secs. 12 and 13.
         Over mountainous land, through scattering undergrowth.
         Desc. 120 ft. to Center of wash, 1 ch. wide, course NW. Asc. 65 ft. to Spur, slopes S. Desc. 75 ft. to
21.00
26.40
32.95
         Center of wash, 2 chs. wide, course SW. Asc. 215 ft. to
38.50
         Pesc. 65 ft.
40.10
         Point for cor. falls on rock in place, 12 X 14 X 6 ft.
              above ground. Marka cross(X) at cor. point, with \frac{1}{4} N. of same, and raise a mound of stone, 2 ft.base, 1\frac{1}{2} ft.
              high, N. of cor. Pits impracticable.
         Asc. 85 ft. to
40.50
         Spur, slopes SW. Desc. NW. slope, 160 ft. to
43.80
         Gulch, 15 lks. wide, course S. Asc. SE. slope, 160 ft. to Spur, brs. SW. Desc. 375 ft. to
47.15
53.40
         Wash, 50 lks. wide, course NW. Asc. 110 ft. to The cor. of secs. 11, 12, 13 and 14.
74.50
80.20
         Land, mountainous.
Soil, rocky, 4th rate.
         No timber.
         Undergrowth, greasewood, mesquite, cat claw and cacti.
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Subdivision of Fractional T. 15 N., R. 201 W.
Chains,
           Apr. 28, 1915: At this cor., I set off 14° 00' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 39' N.
                                                                          Apr. 28, 1915.
           May 1, 1915: J. G. S.O° 1' E., bet. secs. 13 and 14.
           Over mountainous land, through scattering undergrowth.
           Asc. 60 ft. to
           Top of spur, brs. N. 45° W. Comes from S.70° E. Desc. 230
  2.15
                ft. to
           Enter wash, course N. 45° W. Leave wash, course N. 45° W. Asc. 170 ft. to
 15.90
23.00
           Main spur, slopes N. 80° W. Desc. abruptly 120 ft. to Set a limestone, 14 X 8 X 6 ins., in a mound of stone, for \( \frac{1}{4} \) sec. cor., marked \( \frac{1}{4} \) on W. face; and raise a mound of stone, 2 ft. base, \( 1\frac{1}{2} \) ft. high, W. of cor. Pits
36.00
40.00
                impracticable.
           Asc. 50 ft. to
Short spur, slopes W. Thence along W. slope.
48.65
           Desc. 70 ft. to
54.80
           Center of wash, 1 ch. wide, course SW.
68.90
           Desc. 15 ft. to
77.00
           Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 14,24 and frac. sec. 23,
80.00
               marked on brass cap
                                   1915 on S. rim;
T15N R20 W 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, mountainous.
           Soil, rocky, 4th rate.
           No timber.
           Undergrowth, greasewood, palo verde and cacti.
           May 1, 1915: At 9 hrs. 30 m., a.m., l.m.t., I set off 34^\circ 38\frac{1}{2} N. on the lat. arc. 14^\circ 53' N. on the dedl. arc; and determine a meridian with the solar at the cor. of
           secs. 13, 14, & 24 and frac.sec. 23
Thence I run
           S.89° 52' E., on a random line, bet. secs. 13 and 24. Set temp. ½ sec. cor. Intersect E. bdy. of Tp., 19 lks. S. of the cor. of secs.
40.00
80.00
                13, 18, 19 and 24, which is a stone, established by O. R., as described in Book "A".
           Thence I run
           West on a true line, bet. secs. 13 and 24.
           Over mountainous land, through scattering undergrowth.
           Desc. 520 ft. to
           Foot of desc., brs. N. 30° W., and S. 30° E. Asc. 190 ft.
19.80
                to
           Spur, slopes NW. Desc. 510 ft.
38.10
40.00
           Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground,
               for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N. of cor.
               Pits impracticable.
           Asc. 25 ft. to
65.00
           Desc. 70 ft. to
68.90
           Wash, 50 lks. wide, course S.60° W..
The cor. of secs. 13,14 & 24 and frac.sec.23.
76.00
80.00
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Subdivision of Fractional T. 15 N., R. 202 W.
Chains Land, mountainous.
         No soil.
         No timber.
         Undergrowth, greasewood, palo verde and cacti.

May 1, 1915: At this cor., I set off 14° 56' N. on the
lat. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is 34° 38½' N.
                                                            May 1, 1915.
         May 3, 1915:
              At 9 hrs. 3 m., a.m., l.m.t., I set off 34° 38\frac{1}{8}' N., on the lat. arc; 15° 30' N. on the decl. arc; and de-
              termine a meridian with the solar at the cor. of secs.
         13, 14, and 24, and frac. sec. 23. Thence I run
          S. 0° 1' E., bet. sec. 24, and frac. sec. 23.
          Over rolling land, through scattering undergrowth.
  4.50 Wash, 50 lks. wide, course S.W.
 11.50 Center of wash, 1 ch. wide, course W.
 26.20 Desc. 80 ft. to
 Set a malpais stone, 16 \times 7 \times 6 ins., in a mound of stone, for \frac{1}{4} sec. cor., marked \frac{1}{4} on W. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W. of cor. Pits
              impracticable.
         Asc. 125 ft. to
 Top of spur, slopes E. Desc. 115 ft. to.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of sec. 24, and frac. secs. 23,
              25 and 26, marked on brass cap. 1915 on S. rim;
                             T 15 N R 202 W in N. half;
                            S 23 in N.W,,
                            S 24 in N.E.,
                            S 25 in S.E., and S 26 in S.W. 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, 4th rate.
          No timber.
          Undergrowth, greasewood, and palo verde.
         East on a random line, bet. sec. 24, and frac. sec. 25.
         Set temp. ½ sec. cor.
Intersect E. bdy. of Tp. 14 lks. S. of the cor. of secs.
 40.00
 80.04
              19, 24, 25 and 30, which is a stone, established by
              O. R., as described in Book "A".
          Thence I run
S. 89° 54' W., on a true line, bet. sec. 24, and frac.
          Over mountainous land, through scattering undergrowth.
          Along S. slope.
   2.15 Thence over sharp ridges, bearing S. Desc. 65 ft. to
 5.05 Asc. 55 ft. to
14.10 Desc. 130 ft. to
 23.45 Asc. 80 ft. to
 28.30 Desc. 55 ft. to
 33.55 Asc. 60 ft. to
 Thence along S. slope.

40.02 Point for \( \frac{1}{4} \) sec. cor. falls on a granite rock in place.

Mark a cross (X) at the cor. point, with \( \frac{1}{4} \) N. of same, and raise a mound of stone, 2 ft. base, \( \frac{1}{2} \) ft. high, N.
                          Pits impracticable.
              of cor.
 Desc. 385 ft.
40.55 Cliff, 75 ft. high, brs. N. and S.
 64.05 Center of wash, 1 ch. wide, course S. Asc. 85 ft. to
 68.35 Desc. 15 ft. to
 69.75 Asc. 55 ft. to
 80.04 The cor. of sec. 24, and frac. secs. 23, 25, and 26.
          Land, mountainous.
          Soil, rocky, 4th rate.
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No timber.

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Subdivision of Fractional T. 15 N., R. 202 W.
 Chains
               Undergrowth, greasewood and palo verde.
          May 3, 1915: At this cor., I set off 15° 32' N. on the
              decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 37½' N.

May 3, 1915.
          May 4, 1915.
          At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 37\frac{1}{2}' N. on the lat. arc; 15° 47\frac{1}{2}' N. on the decl. arc; and deter-
               mine a meridian with the solar at the cor. of Sec. 24,
               and frac. secs. 23, 25, and 26.
           Thence I run
           S. 0° 1' E., bet. frac. secs. 25 and 26.
           Over rolling ridges, through scattering undergrowth. Asc. 20 ft. to
    4.00 Desc. 185 ft. to
  17.95 Asc. 35 ft. to
  26.00 Desc. 130 ft.
  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;
                      砉 in N.,
               S 25 in E. and S 26 in W. half; and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
               W. of cor. Pits impracticable.
   43.50 Enter bottom land.
   54.50 Center of wash, 1 ch. wide, course S. 60° W.
  62.55 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, on the left bank of the Colorado River, 6 ft.
               above water level, for meander cor. of fracl. secs.
               25 and 26, marked on brass cap
                      1915 on S. rim;
T 15 N R 20 W in N. half;
                     M C S. of center;
                      S 26 in N. W., and
                      S 25 in N.E. 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, 1st and 2nd rate.
           No timber.
           Undergrowth, greasewood and palo verde.
           To survey line bet. frac. secs. 25 and 36, I commence at the meander cor. of frac. secs. 25 and 26, on left bank
               of Colorado River and locate the meander cor. of frac.
               secs. 25 and 36 by means of offset line as follows:
62.55 EAST
                             East
                                     3.05 chs.
                             S. 0° 1' E., 17.45 chs. (80. chs. - 62.55 chs.)
West 1.62 chs. to point on left bank of
                                                    Colorado River at mean high
                                                    water mark, where I
           Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
               ground, for meander cor. of fracl. secs. 25 and 36
               marked on brass cap:
                      1915 on S. rim;
                      M C W. of center;
T 15 N R 20\frac{1}{2} W in N. half;
    1.62
N. WE
                     S 25 in N.E., and
                      S 36 in S.E. sector,
           dig a pit 36 x 36 x 12 ins., 8 ft. E. of post, and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.
           Thence I run
           N. 89° 54' E., on a random line, bet. frac. secs. 25 and
               36 • . . .
   38.57 Set temp. \(\frac{1}{4}\) sec. cor.
78.75 Intersect E. bdy. of Tp., 14 lks. S. of the cor. of secs.
25, 30, 31 and 36, which is an iron post, established
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Subdivision of Fractional T. 15 N., R. 202 W.
                by O.R., as described in Book "A".
Chains
           Thence I run
S. 89° 48' W., on a true line, bet. frac. secs. 25 and 36
Over rolling land, through scattering undergrowth:
           Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{2} \) sec. cor., marked on brass cap 1915 on S. rim;
                         S 25 in N.,
                         S 36 in S, and
                         1 in W. half;
                and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
           N. of cor. Pits impracticable. The meander cor. of fracl. secs. 25 and 36.
           From this cor., an abandoned house brs. S. 52° 5' E.,
                5 chs. dist.
           Land, rolling. Soil, 1st, 2nd and 3rd rate.
           No timber.
           Undergrowth, greasewood and palo verde.
           To survey line bet. frac. secs. 35 and 36, I commence at the meander cor. of frac. secs. 25 and 36, on left
                                                                                                             M.C. 1.62 Sec. 1.
                bank of Colorado River and locate the meander cor. of
                frac. secs. 35 and 36, by means of offset line as
                follows:
                                 N. 89° 48' E., 1.62 chs.
S. 0° 1' E., 10.31 chs.
                                 S. 89° 48' W., 3.05 chs., (1.62 chs. + 1.43,
                                chs.) to a point
           on left bank of Colorado River, where I
Set an iron post, 3 ft. long, l in. diam., 26 ins. in the
ground, on the left bank of the Colorado River, at
                mean high water mark, for meander cor. of fracl. secs. 35 and 36, marked on brass cap
                        1915 on S. rim;
M C N. of center;
T 15 N R 201 W in S. half;
                         S 36 in S.E., and
                S 35 in S.W. quadrant; dig a pit, 36 x 36 x 12 ins., 8 ft. S. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, S. of
                 cor.
            Thence I run
           S 0° 1' E., on a random line bet. frac. secs. 35 and 36.
           (40:00 chs. - 10.31 chs.) Set temp. ½ sec. cor.

Intersect the S. bdy. of the Tp., 10 lks. W. of the cor.

of sec. 1, and frac. secs. 2, 35, and 36, which is an

iron post, established by O. R., as described in

Book "A".
           Thence I run N. 0° 6' W., on a true line, bet. frac. secs. 35 and 36. Over rolling and mountainous land, through scattering
                undergrowth.
           Asc. 30 ft. to
 3.50 Top of asc., brs. E. and W. Desc. gradually 165 ft. to 39.95 Enter bottom land.
 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;
                         쿡 in N.,
                S 36 in E., and S 35 in W. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                                    Pits impracticable.
                W. of cor.
69.39 The meander cor. of fractional secs. 35 and 36.

Land, rolling and level. Soil, 1st and 2nd rate.

No timber. Undergrowth, greasewood, palo verde & cacti.
                                                                                               J.G.
          From cor. of secs. 2 & 35 and frac. secs. 3 & 34 on N. bdy. of the Tp., established by me as described in book "A", I run,
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Subdivision of Fractional T. 15 N., R. 201 W
          S. 0° 1' E., bet. sec. 2 and frac. sec. 3.
Chains
           Over mountainous land through scattering undergrowth.
           Asc. 155 ft. to.
  11.26 Chemehuevis Mt. Divide bears E. and W. As it is impracticable to continue chaining on sec. line S. from this
               point I run offset line in frac. sec. 3, as follows:
S.89° 59' W., 4.95 chs. Desc. 46 ft. thence
S. 0° 1' E., 28.74 chs. Desc. 180 ft. to
5.89°59'W.
4.95
                                                     17.07 Wash 50 lks. wide,
                                                             course .S.W.thence
     28.
                                                             desc. 100 ft. to
                                                     28.74 Foot of desc., thence hs. Asc. 120 ft. returning
     495 40.00
                      N.89° 59' E.,
                                          4.95 chs.
N.89°59'E.
                                                            to sec. line at
  40.00 where I set a malpais stone, 22 x 10 x 4 ins., 17 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{\pi}{4} ft. high, W
               of cor. Pits impracticable.
           Impracticable to chain measurement S. from \( \frac{1}{4} \) sec. cor.
               therefore run on offset line in frac. sec. 3 as fol-
                     S.89° 59' W., 4.95 chs.,
S. 0° 1' E., 38.70 chs.
                                                               Desc. 120 ft. thence Asc. 95 ft. to
5.89.59 W.
      195 45EC.COR.
                                                17.12 Top of spur slopes S.W.,
                                                         thence desc. 45 ft. to
                                                19.61 Wash, 10 lks. wide course
                                                                Asc. 125 ft. on N.W
                                                         S.W.
                                                slope to
27.40 Top of spur slopes W., thence
desc. 100 ft. over cliffs.
                                                34.00 Foot of cliffs; thence
N.89°59'E
        80.00
SEC.COR.
                                                         ascend 20 ft. to
                                                38.70 Thence
  N.89° 59' E., 4.95 chs., Ascending 150 ft. to a point on sec. line at
78.70 Thence continue S. 0° 1' E., on sec. line. Along W. slope
  80.00 Set a granite stone, 18 x 16 x 8 ins., in a mound of stone,
               for cor. of secs. 2 and 11, and frac. secs. 3 and 10,
               marked with 2 notches on E., and 5 notches on S. edges; and raise a mound of stone, 2 ft. base, 12 ft. high W.
           of cor. Pits impracticable.
In the W.half of sec. 2 are a number of high pointed peaks,
              known as The Needles."
           Land, mountainous. Soil, 4th rate.
           Undergrowth, greasewood, catclaw and cacti. No grass.
                                                          May 4, 1915.
           May 5, 1915: At 8 hrs. 5 m., a.m., 1.m.t., I set off 34° 40' N. on the lat. arc; 16° 4\frac{1}{2}' N, on the decl. arc;
               and determine a meridian with the solar at the cor. of
                secs. 2 and 11, and frac. secs. 3 and 10.
           Thence I run
           East on a random line, bet. secs. 2 and 11.
           Set temp. \frac{1}{4} sec. cor.
Intersect N. and S. line at the cor. of secs. 1, 2, 11
   40.00
   80.00
               and 12.
           Thence I run
           West on a true line, bet. secs. 2 and 11.
           Over mountainous land, through scattering undergrowth.
           Desc. 35 ft. to
    2.30 Asc. 50 ft. to
   , 5.00 Desc. 30 ft. to
   7.10 Asc. E. slope, 90 ft. to
12.61 Cliff spur, slopes S. Desc. 430 ft. to
   27.76 Center of Wash, 50 lks. wide, course SW. Asc. E. slope, 20 ft. to
   30.85 Spur, slopes SW. Desc. 100 ft. to
   39.03 Wash, 50 lks. wide, course S.E. Asc. 145 ft.
40.00 Set a malpais stone, 16 x 12 x 8 ins., 11 ins. in the ground, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on N. face; and raise a mound of stone, 2 ft. base, 1\(\frac{1}{2}\) ft. high N. of
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cor.

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Subdivision of Fractional T. 15 N., R. 202 W.
Chains
              Pits impracticable
 47.67 Spur, slopes S.W. Desc. 220 ft. to
 53.23 Wash, course S.W. Asc. 15 ft. to
 55.83
         Spur, slopes S.W.
                                    Desc. 55 ft. to
 69.77 Center of wash, 5 chs. wide, course S.W.
                                                                    Asc. S.E. slope,
              335 ft.
         Foot of cliff, 235 ft. high. Top of cliff, brs. N. and S.
 76.73
 79.80
          The cor. of secs. 2 and 11, and frac. secs. 3 and 10.
 80.00
          Land, mountainous.
          Soil, rocky, 4th rate.
          No timber.
          Undergrowth, greasewood and palo verde.
         May 5, 1915: At this cor., I set off 16° 7' N. on the declare; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 40' N.
         May 10, 1915: At 9 hrs. 3 m., a.m., 1.m.t., I set off 34° 40' N. on the lat. ard; 17° 28' N. on the decl.
              arc; and determine a meridian with the solar at the
              cor. of secs. 2 and 11, and frac. secs. 3 and 10
          Thence I run
         West on a true line, bet. frac. secs. 3 and 10.
          Over mountainous land, through scattering undergrowth.
          Desc. 640 ft. to
 Intersect E. bdy. of frac. T. 15 N., R. 21 W., 2.90 chs.
S. of the cor. of frac. secs. 24 and 25, which is an
iron post, established by me, as described in Book "A"
Point for closing cor. falls on rock in place 8 x 8 x 6
ft. above ground. Mark a cross (X) at the exact point
             for closing cor. of fracl. secs. 3 and 10, marked C C E. of cross, with 1 notch N. and 5 notches S. of same;
              and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
              E. of cor.
                               Pits impracticable.
          Land, mountainous.
          Soil, rocky, 4th rate.
         No timber.
          Undergrowth, greasewood and palo verde.
                                                              May 10, 1915.
          No grass.
         May 11, 1915: At 7 hrs. 55 m., a.m., A.m.t., I set off 34° 40' N., on the lat. arc; 17° 43½' N. on the decl.
             arc; and determine a meridian with the solar at cor.
              of secs. 2 and 11 and frac. secs. 3 and 10.
          Thence I run
          S. 0° 1' E., bet. sec. 11 and frac. sec. 10. Over mountainous land, through scattering undergrowth.
 Asc. 25 ft. to
Cliff spur, slopes W. Desc. 385 ft. to
12.25 Enter wash, course S.W.
 32.50 Leave wash, course S.W. Asc. 70 ft. to
 35.70 Desc. 25 ft. to
 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;
                     1 in N.,
              S 11 in E., and S 10 in W. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
              W. of cor. Pits impracticable.
          Asc. 70 ft., over rolling sand hills, to
 51.45 Desc. 55 ft. to
57.37 Foot of cliff, brs. N.W. and S.E. Impracticable to continue South on sec. line from this point, therefore run on offset line in frac sec. 10 as follows:
                                                            Impracticable to con-
                                5.17 chs. Asc. 45 ft., thence
                    West
                                                    Desc. 147 ft. to
                    S.0° 1' E, 22.63 chs.
                                             9.61 Wash 20 lks. wide, course
                                                    S.W., Desc. 40 ft. to
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22.63 Thence

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Subdivision of Fractional T. 15 N., R. 201 W.
10
                                                      Ascending 190 ft. over cliffs
                                    5.17 chs.,
      Chains
                                                       to.
       80.00 Set a granite stone, 16 x 14 x 8 ins., in a mound of stone, for cor. of secs. 11 and 14, and frac. secs. 10 and 15, marked with 2 notches on E. and 4 notches
  SECI
                    on S. edge; and raise a mound of stone, 2 ft. base,
                1½ ft. high, W. of cor. Pits impracticable. Land, mountainous.
                Soil, rocky, 4th rate.
                No timber.
                Undergrowth, greasewood and palo verde.
                                                                        May 11, 1915.
                Apr. 28, 1915. It being impracticable to chain measure-
                    ment East on random line from cor. of secs. 11 and 14
                            frac. secs. 10 and 15, on account of cliffs,
                    I run on offset line as follows:
                7.77 chs.,
S. 0° 1' E.,13.53 chs.,
East 25.54 chs.,
N.0° 1' W., 13.53 chs., to point on random
                    line at
                Thence East, on random line bet. secs. 11 and 14.
        40.00 Set temp. \frac{1}{4} sec. cor. 80.00 Intersect N. and S. line, at the cor. of secs. 11, 12,
                . 13, and 14. Thence, I run
                West on a true line, bet. secs. 11 and 14.
                Over mountainous land, through scattering undergrowth.
                Asc. to
          5.67 Spur, slopes N.W. Desc. S.W. slope, 210 ft. to.
       21.34 Center of wash, 1 ch. wide, course N.W. Asc. N.E. slope,
                    65 ft. to .
        40.00 Set a granite stone, 16 x 8 x 6 ins. 11 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked \( \frac{1}{4} \) on N. face; and raise a mound of stone, 2 ft. base, \( \frac{1}{2} \) ft. high, N. of cor. Pits
                     impracticable.
                 Desc. 65 ft. to
        45.00 Thence along S. slope. 50.30 Desc. 115 ft. to
        54.56 Wash, 50 lks. wide, course S.W. Asc. 165 ft. to 62.23 Foot of cliff, brs. N. E. and S. W. It being impractic-
                     able to continue chaining West from this point on sec-
line, I offset in sec. 14 as follows:
S.0° 1' E., 13.53 chs. Desc. 95 ft., thence
                           West
                                            25.54 chs
                                                    9.77 Asc. 35 ft. to
                                                   12.77 Top of ascent. along S. slope. 14.37 Desc. 60 ft. to
                                                                                 Thence
                                                   20.54 Enter wash, 6 chs. wide,
                                                   course N.W. 25.54 Bank of wash, thence
                            N.0° 1' E,, 13.53 chs.
                                                           In wash 6 chs. wide,
                                                           course N.W.
                                                    7.60 Leave wash.
                                                                            Asc. along
                                                           .W. slope to
                                              13.53 Thence 7.77 Ascending 150 ft. to
                           East
         80.00 The cor. of secs. 11 and 14, and frac. secs. 10 and 15.
                     Land, mountainous.
                     Soil, rocky, 4th rate.
                     No timber.
                     Undergrowth, greasewood and palo verde.
                                                                 Apr. 28, 1915.
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- 2942
           Subdivision of Fractional T. 15 N., R. 201 W.
                                                                                              11
Chains | May 11, 1915:
         West on a true line, bet. frac. secs. 10 and 15.
         Over mountainous land, through scattering undergrowth. Desc. over cliffs, 190 ft.
 5.18 Leave cliffs, desc. over sand hills.
25.11 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 fracl. secs. 10 and 15, marked on brass cap 1915 on S. rim;
                            M C W. of center;
                            T 15 N R 20\frac{1}{2} W in N. half;
              S 10 in N.E., and
S 15 in S.E. sector;
dig a pit, 36 x 36 x 12 ins., 8 ft. E. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, E. of
              cor.
         Land, Mountainous.
          Soil, rocky, 4th rate, and sandy, 3rd rate.
         No timber.
         Undergrowth, greasewood and palo verde. May 11, 1915: At this cor., I set off 17° 45\frac{1}{2}' N., on
              the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 39' N.
         It being impracticable to chain measurement South on sec.
              line from cor. of secs. 11 and 14, and frac. secs. 10
              and 15, I offset from said cor. to avoid impassable cliffs, as follows:
                                       7.77 chs. Ascend 150 ft., thence
                    West
                     S.0° 1' E., 14.24 chs. Desc. 23 ft. to
                  SEC.COR.
                                                  5.93 Enter wash, 6 chs. wide,
                                                          course N.W:
                                                13.53 Leave wash. Asc. 20 ft. to 14.24 Top of spur, slopes N.W.,
       14.24
                                                          thence
                    East
                                     7.77 chs.
                                                       Desc. N.E. slope 20 ft. to
                                                  1.00 Enter wash, 6 chs. wide,
                                                          course N.W.
                 7/4.24
                                                 6.00 Leave wash, asc. to 7.77 Point on sec. line at
14.24 Continue S. 0° 1' E., bet. sec. 14 and frac. sec. 15.

Asc. 20 ft. to
15.26 Top of spur, slopes W.
                                           Desc. 65 ft. to,
18.78 Split in wash 6 chs. wide from S.E. One course N.W., and
             the other S.W.
23.50 Asc. 150 ft. to
27.82 Cliff spur, slopes N.W. Desc. slightly to
33.64 Wash, 50 lks. wide, course W. Asc. 25 ft. to 36.27 Spur, slopes S.W. Desc. 95 ft.
40.00 Set a granite stone, 18 x 10 x 5 ins., in a mound of stone,
             for \frac{1}{4} sec. cor., marked \frac{1}{4} on W. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W. of cor. Pits
             impracticable.
49.00 Asc. 35 ft. to
50.15 Desc. 110 ft. to
54.04 Center of wash, 2 chs. wide, course N.W. Asc. 70 ft. to
56.22 Cliff ridge, brs. N.W. and S.E. Desc. 105 ft. to
59.13 Wash, 50 lks. wide, course N.W. Asc. 40 ft. to
71.44 Spur, slopes S.W. Desc. 55 ft. to
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
the ground, for cor. of sec. 14, and frac. secs. 15,
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22, and 23 , marked on brass cap,

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Subdivision of Fractional T. 15 N., R. 202 W.
12
                              1915 on S. rim;
      Chains
                              T 15 N R 20\frac{1}{2} W. in N. half;
                             S 15 in N.W.,
                             S 14 in NE.,
S 23 in S.E., and
                             S 22 in S. W., quadrant;
                      S 22 in S. W., quadrant; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                      W. of cor. Pits impracticable.
                 Land, Mountainous.
                  Soil, rocky, 4th rate.
                 No timber.
                 Undergrowth, greasewood, palo verde and mesquite.
                                                                              May 11, 1915.
                                                                                      0. R.
                 May 1, 1915: J. G.
                 East on a random line, bet. sec. 14 and frac. sec. 23.
        40.00 Set temp. 4 sec. cor.
        79.86 Intersect N. and S. line, at the cor. of secs. 13, 14, and 24, and frac. sec. 23.
                  Thence I run
                 West on a true line, bet. sec. 14 and frac. sec. 23. Over rolling ridges, through scattering undergrowth.
        28.75 Center of wash, 80 lks. wide, course S. 70° W.

Set a granite stone, 20 x 10 x 8 ins., in a mound of stone for \(\frac{1}{2}\) sec. cor., marked \(\frac{1}{2}\) on N. face; and raise a mound of stone 2 ft. base, \(\frac{1}{2}\) ft. high, N. of cor.
                      Pits impracticable.
        Desc. 15 ft. to
43.00 Asc. 25 ft. to
47.00 Desc. 55 ft. to
52.00 Asc. 110 ft. to
        60.50 Point of long spur, from N.E., slopes S. Desc. 215 ft. to 79.86 The cor. of sec. 14, and frac. secs. 15, 22, and 23.
                  Land, rolling and mountainous. Soil, rocky 4th rate.
                  No timber.
                  Undergrowth, greasewood, palo verde and cacti.
                                                                         May 1, 1916.
                                                                             J. G.
                  May 11, 1915: 0. R. West on a true line, bet. frac. secs. 15 and 22.
          Over bottom land, through dense undergrowth.

3.24 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 fracl. secs. 15 and 22, marked on brass cap
1915 on S. rim;
                                      M C W. of center;
                                      T 15 N R 20½ W in N. half;
S 15 in N.E., and
S 22 in S.E. sector;
                       dig a pit, 36 x 36 x 12 ins., 8 ft. E. of post, and
                       raise a mound of earth, 4 ft. base, 2 ft. high, E. of
                     . cor.
                  Land, level bottom. Soil, sandy, 3rd rate.
                  No timber.
                  Undergrowth, mesquite, palo verde, cat claw, willow and
                       arrow-weed.
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Subdivision of Fractional T. 15 N. R.
                                                                               20분 W
Chains.
           From the cor. of sec.14 and fractsecs.15,22 and 23,1 run, S.0° 1' E., on a true line, bet fractsecs.22 and .23.
           Over bottom land, through dense undergrowth. Leave bottom land, brs. NW. and SE. sc. 70 ft. to
29.00
          Spur, slopes SV.Desc. 45 ft. to
Set a malpais stone, 20 X 10 X 10 ins., in a mound of stone,
31.75
32.87
               on the left bank of the Colorado River, at mean high water mark, for meander oor. of fracl. secs. 22 and 23, marked MC on S., with 2 notches on E. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
               Pits impracticable.
          Land, level and mountainous.
          Soil, sandy 3rd rate, and rocky, 4th rate.
          No timber.
          Undergrowth, arrow-weed, mesquite, cat claw, and willow.
          No grass.
                                                                          May 11, 1915.
          May 3, 1915:
                              J. G.
          From the cor. of sec. 24 and frac secs. 23, 25 and 26, I run,
          West on a true line, bet frac secs 23 and 26.
          Over mountainous land, through scattering undergrowth.
          Desc. gradually 185 ft. to Asc. 70 ft. to
27.70
          Ridge, brs. N. and S. Desc. 120 ft. to Enter bottom land.
30.60
39.00
          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
40.00
                                 1915 on S. rim;
                                 S23 in N.,
                                 S26 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.
          Set an iron: post, 3 ft. long, lin. diam., 26 ins. in the ground, on the left bank of the Colorado River, 15 ft.
58.40
              above water line, for meander cor. of fracl. secs. 23 and 26, marked on brass cap
                                 1915 on S. rim;
                                MC W. of center;
                                Tl5N R20 w in N. half;
              S23 in NE., and
S26 in SE. sector;
dig a pit, 36 X 36 X 12 ins., 8 ft. E. of post, and
              raise a mound of earth, 4 ft. base, 2 ft. high. E. of
              cor.
          Land, level and mountainous.
Soil, 1st and 2nd rate on bottom land; 3rd and 4th rate
              on mountains,
          Undergrowth, greasewood, palo verde and mesquite.
                                                                            J. G.
                                                                   May 3, 1915.
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## Meanders of the Left Bank of the Colorado River within, Fractional T. 15 N., R. 20 w.

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Meanders of the left bank of the Colorado River, up stream.
May 4, 1915.
                  J. G.
I commence at the meander cor. of fracl. secs. 2 and 35,
    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 frac. sec. 35.
Over bottom land, through dense undergrowth. N.42\frac{3}{2}° W. 9.30 chs. N.30\frac{1}{2}° W. 7.40 "
N.50° W. 5.90 "
N.44° W.
                             11
                   11.20
N. 22½° W.
N. 35° W.
                             11
                     1.80
                     4.40
N.34½° E.
N.69¾° E.
N.74½° E.
                     2.20
                    6.50
                            11
                     5.20
                                 Along water's edge.
11
                     7.10
                                  Asc. over broken cliffs, 75 to
                    8.90
                                   100 ft. above water.
                                                      May 4, 1915.
May 5, 1915: At 8 hrs. 7 m., a.m., l.m.t., I set off 34° 36' N. on the lat. arc; 16° 4\frac{1}{2}' N. on the decl. arc;
    and determine a meridian with the solar.
Thence I continue with meanders in frac. sec. 35 S.784° E. 9.00 chs. Over cliffs, 100 ft. above
                                    water. On this course, desc.
                                    80 ft. to 3.60 chs., and asc.
                                    120 ft. to 8.30 chs.
                                   Desc. 130 ft. to 9.90 chs., thence over level land.
S.87<sup>3</sup>° E.
                   18.40
N.27° E.
                                   Through dense undergrowth.
                   13.80
N.14° 57'E.
                  23.10
                                   To the meander cor. of fracl.
    secs. 35 and 36.
Land, level and mountainous.
Soil, on bottom land, 1st and 2nd rate; on cliffs, 4th
    rate.
No timber.
Undergrowth, greasewood, palo verde, arrow-weed, and
   mesquite.
May 5, 1915: At this cor., I set off 16° 7' N. on the decl. arc; and at apparent noon, I observe the sun on
    the meridian; the resulting lat. is 34^{\circ} 36\frac{1}{2} N.
Thence in frac. sec. 36.
Over level land, through dense undergrowth. N.18\frac{1}{2}° E. 3.70 chs. N.0° 10' E. 6.78 " To the meander
                                    To the meander cor. of fracl.
   secs. 25 and 36.
Land, level.
Soil, sandy loam, 1st and 2nd rate.
No timber.
Undergrowth, greasewood, mesquite and arrow-weed.
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Thence in frac. sec. 25.

Over level land, through dense undergrowth.

N. 63° E. 7.90 chs.

N.12° 57' W. 9.68 " To the meander cor. of fracl. secs. 25 and 26.

Land, level.

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

No timber.

Undergrowth, greasewood, willow, mesquite and cataclaw.
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Meanders of the left bank of the Colorado River, up stream, Thence in frac Sasec. 26. Over level land, through dense undergrowth. N.19° W. 6.00 chs. N.2410 W. 9.20 At 1.25 chs. on this course, wash, 1 ch. wide, course W. N.34° W. 6.70 N.40분 W. N.56분 W. 8.30 On this course, asc. 45 ft. to top of Mohave Rock, in bend 2.60 of River. N.483° E. Desc. 55 ft. from Mohave Rock, 4.70 to 4.70 chs.; thence over level land. N.21° W. 3.20 N.653° W. 34.80 11 N.39<sup>5</sup> 24' W. 19,20 To the meander cor. of fracl. secs. 23 and 26. Land, level bottom. Soil, 1st and 2nd rate, sandy loam. No timber of any size. Undergrowth, greasewood, mesquite, willow and cat-claw. May 5, 1915.

May 6, 1915: At 7 hrs. 50 m., a.m., l.m.t., I set off 34°  $37\frac{1}{2}$  N. on the lat. arc; 16°  $21\frac{1}{2}$  N. on the decl. arc; and determine a meridian with the solar at the meander cor. of fracl. secs. 23 and 26. Thence I run with meanders in frac. sec. 23. Over level bottom land, through dense undergrowth. N.393° W. 9.50 chs. N.28° W. 27.40 " At 23.90 chs. on this At 23.90 chs. on this course, leave bottom land, and asc. over broken cliffs. N.163° E. N.331° W. N.212° W. 6.90 11 5.10 11 5.02 To the meander cor. of fracl, secs. 22 and 23. Land, level bottom and broken cliffs. Soil, sandy loam, 1st and 2nd rate; and rocky, 4th rate. No timber. Undergrowth, greasewood, mesquite and cat claw.

Thence in frac. sec. 22. Over broken cliffs, through scattering undergrowth. N.14분° W. 8.00 chs. At 5.40 chs. on this course, enter bottom land. N. 23° W. 25.10 To the meander cor. of fracl. secs. 15 and 22. Land, level bottom and broken cliffs, Soil, sandy loam, 1st and 2nd rate; and rocky, 4th rate. No timber. Undergrowth, greasewood, mesquite and cat claw. May 6, 1915: At this cor., I set off 16° 24' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is  $34^{\circ}$   $38\frac{1}{2}$ , N.

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Thence in fractisec. 15.

Over level land, through dense undergrowth.

N. 3\frac{1}{2}^{\circ} W. 9.80 chs.

North. 12.50 chs. Over low broken cliffs.

N. 76\frac{1}{2}^{\circ} E. 2.60 " Over broken ridge.
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 $N \cdot 8^{\frac{1}{4}} \circ W$ 18.20 chs. Through dense undergrowth,

over bottom land. 3.80

N.49½° W. N.4° W. N.2½° E. N.33¾° W. Over low, broken ridges. Over low, broken ridges. Over low, broken ridges. 2.50 11 6.70

Ħ To the meander cor. of fracl 33.01 secs. 10 and 15. At 0.50 chs. on this course, enter level bottom land.

Land, level bottom and low broken ridges. Soil, sandy 3rd rate.

No timber.

Undergrowth, mesquite, cat claw, willow and arrow-weed. Poor grass.

May 6, 1915.

May 11, 1915. O. R. Thence in frac. sec. 10.

Over bottom land, through dense undergrowth. N.46 $^{3}$  W. 13.40 chs. At 10.00 chs. on At 10.00 chs. on this course, leave bottom land; thence over broken bluffs.

tt N.41분° W. 6.50 To the meander cor. of fracl. secs. 10 and 25 Adescribed in book "A".

Land, level and broken.

Soil, sandy loam, 1st and 2nd rate; and rocky, 4th rate. No timber.

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

May 11, 1915.

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

May 8, 1915.

From the meander cor. of fracl. secs. 3 and 24, described in book "A", I run with meanders in frac. sec. 3. Over broken cliffs, through scattering undergrowth. S.15° E. 7.07 chs. S.25½° E. 3.52 " Leave broken, enter bott

Leave broken, enter bottom land. Enter dense undergrowth.

To the meander cor. of fracl. S.28 % W. 7.07 secs. 3 and 24, described in

Land, level bottom and broken. ( book "A".

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

No timber.

Undergrowth, mesquite, cat claw and arrow-weed. No grass. 0.R.

May 8, 1915.

### GENERAL DESCRIPTION.

The northern half of this fractional Tp. is very rough consisting of numerous needle peaks known as the Needles. The gulches have cliff walls for banks, and all the hills have perpendicular drops of from 40 to 400 ft. The hills

have no soil, but are malpais rock.

The south half breaks into low, sandy hills, and supports

a scattering growth of greasewood, palo verde and mesquite.
This Tp. is bounded on the west by the Colorado River,
which in the north half has no bottom land, but runs through gorges with perpendicular sides, while in the extreme south, through secs. 25 and 36, the bottom land

Fractional T. 15 N., R.  $20\frac{1}{2}$  W.

17.

is about one-half of a mile wide, and supports a dense growth of mesquite, cat claw, willow and arrow-weed.

There is an abandoned cabin in sec. 36, but there are no settlers in the Tp.

Significant to the second seco

T. I. The mile wi

	Sign Cools 80.8
Ι,	, U. S. Surveyor, do solemnly swear that, in pursuanc
of special instructions received from	m the U.S. Surveyor General for
bearing date of the	day of, 191 , I have well, faithfully, and truly
n my own proper person, and in	strict conformity with said instructions, the Manual of Surveying
	United States, surveyed all those parts or portions of
\	
·	
	of the
Meridian, in	n the State of, which are represented i
the foregoing field notes as having	g been executed by me, and under my direction; and I do furthe
	s of said survey have been established and perpetuated in strict accord
	Instructions, and the special written instructions of the U.S. Surveyo
	and in the specific manner described in the field notes, and tha
the foregoing are the original field	
no reregeing ure one original heigh	notes of such survey.
	U. S. Surveyor.
Subsection d has easily	
	, and sworn to before me
this day of	, 191
× SEAL	
	·
	APPROVAL.
	OPPICE OF MALE HAVENING COLUMN
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
	Phoenix, Arizona, April 10, 1917.
	ne survey of the Subdivision lines and
	f the Left Bank of the Colorado River
within	Frac. Township 15 North, Range 201 West.
of the Gila and Sal	t River Base and Meridian,
	in the State of Arizona
	oss, U.S.Surveyor and
	John Gonin, U.S. Cransitman
nder special instructions date	$_{ m d}$ December 28,1914 for Group 42,Arizona having been
ritically examined, and the necess	sary corrections and explanations made, the said field notes, and the
urveys they describe, are hereby a	pproved.
•	Frank AS 100
	Surveyor General. of Arizona.
, , , , , , , , , , , , , , , , , , , ,	nscript of the field notes of the above described surveys in
3000 113, 11	as been correctly copied from the original notes on file in this officer
6—276 {	

Surveyor General.