4--679

Book "H."
(Subdivisions)

BOOK 2871

# FIELD NOTES

OF THE SURVEY OF PART

of the	
SUBDIVISION LINES OF	
·	.,
FRACTIONAL TOWNSHIP 145 NORTH, RANGE 6 WEST,	
***************************************	
(WEST HALF)	
	<b>-</b> •
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······································	
Of the Gila and Salt River Base and Meridian,	
In the State ofArizona.	
EXECUTED BY	
John F. Hesse,	
U. S. Surveyor,	•
······································	
In the capacity of U.S. Surveyor, under instructions dated Sept. 26, , 1914	·,
issued by the United States Surveyor General to govern surveys included i	'n
Group No. $37$ , which were approved by the Commissioner of the General Lan	d
Office, Oct. 3, 1914.	
G	
Survey commenced June 9, , 1915.	
Survey completed June 21, 1915.	

BCGX 2871

Book "H."

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#### Chains.

Survey commenced June 9, 1915, and executed with an A. Lietz light mountain transit, No. 6166, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was approved by the Assistant Supervisor of Surveys for Arizona and California, conditional upon satisfactory field tests, September 28, 1914. I examine the adjustments of the transit. and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows: At my camp which is located near the cor. of secs. 19, 20 29 and 30, Tp. 14½ N. Rg. 6 W.; latitude 34° 37' 00" N.; longitude 112° 55' 13" W.; I set off 34° 37' N. on the lat. arc; 22° 56' N. on the decl. arc; and at 5h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

June 9, 1915.

June 10, 1915.

so bdy. of the Tp., established by me, as described in Book PARLI run,

N. 0° 01' E. bet. secs. 31 and 32. Ascend S. slope through scattering brush.

Spur, bis W. 64 ft. above cor. Descend

6.38 40.00

Set an iron post 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;

S31 in W. and

\$32 in E. half; and raise a mound of stone 2 ft. base  $l^{\frac{1}{2}}$  ft. high, W. of cor. Pits impracticable. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor of secs. 29, 30, 31 and 32, marked on brass cap

1915 on S. rim;

Tl4 tNR6W in N. half;

S30 in N. W.

S29 in N. E. S32 in S. E. and

S31 in S. W. quadrant; and raise a mound of stone 2 ft. base  $l^{\frac{1}{2}}$  ft. high, W. of cor. Pits impracticable. 891 ft. below spur.

Land, mountainous. malpais formation. Soil, rocky; 4th. rate.

No timber.

80.00

Undergrowth, oak, catclaw, mesquite and laurel.

June 10, 1915.

June 11, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$  36' N. on the lat. arc;  $23^{\circ}$  03½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32,

Thence I run

West on a random line bet. secs. 30 and 31.

40.00 80.00

Set temp. \(\frac{1}{4}\) sec. cor.

Intersect W. bdy. of Tp. 4 lks. S. of the cor. of secs. 25, 30, 31 and 36, established by me as described in Book Thence I run

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Subdivision of fracl. Tp. 14 No. Rg.
      <u>Partial</u>
Chains.
         S. 89° 58' E. on a true line bet. secs. 30 and 31.
         Along rough general N. slope, through scattering brush.
         Wash 15 lks. wide course N. 70 ft. below cor.
  8.38
         Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
            ground for \frac{1}{4} sec. cor., marked on brass cap 1915 on S. rim;
                  \frac{1}{4}S30 in N. and
                  S31 in S. half; and raise a mound of stone 2 ft.
         base l^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable. This cor. is on top of spur N. W. 240 ft. above Cor. on
            W. bdy.
         The cor. of secs. 29, 30, 31 and 32.
 80.00
         179 ft. below \frac{1}{4} sec. cor.
         June 11; At this cor. I set off 23^{\circ}/03\frac{1}{2}! N. on the decl.
            arc; and observe the sun on the meridian at noon the resulting lat. is 34° 36' N.
         Land, mountainous. Malpais formation.
         Soil, rocky; 4th. rate.
         No timber.
         Undergrowth, oak, laurel and catclaw.
         Poor grass.
         N.0° 01'E., bet. secs.29 and 30.
         Descend through scattering brush..
         Sycamore Creek (dry) 50 lks. wide, course W. 100 ft.
 15.13
             below corner. Ascend.
                                        .
 18.88
         Wire fence bears NW. and SE.
         Spur, by. W. 104 ft. above wash. Descend.
 36.46
         Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
            ground for \frac{1}{4} sec. cor., marked on brass cap
                  1915 on S. rim;
                  \frac{1}{4}S30 in W. and
                  S29 in E. half; from which
                      A cedar 5 ins. diam., bears S. 7\frac{1}{4}^{\circ} E. 169
                     lks. dist., marked \frac{1}{4}S29BT. A cedar 6 ins. diam., bears S. 46\frac{1}{4}° W. 131
                            lks. dist., marked \frac{1}{4}S30BT.
         Cottonwood Creek 60 lks. wide, course S.W. 120 ft. below
 57.28
            spur, water in holes. Ascend.
          Spur, br. SE. 159 ft. above creek, and along rough broken E.
 60.20
            slope.
          Set an iron post 3 ft. long, 2 ins. diam., 12 ins. in the
 80.00
            ground, in a mound of stone, for cor. of secs. 19, 20,
            29 and 30, marked on brass cap
                  1915 on S. rim;
                  Tl4 NR6W in N. half;
                  S19 in N. W.
                  S20 in N. E.
                  S29 in S. E. and
                  S30 in S. W. quadrant; from which A cedar 10 ins. diam., bears N. 5° W. 29
                            lks. dist., marked Tl42NR6WS19BT.
                      A cedar 8 ins. diam., bears N. 11° E. 34
                            lks. dist., marked Tl4\frac{1}{2}NR6WS2OBT.
                      A cedar 8 ins. diam., bears S. 16° E. 47 lks. dist., marked Tl42NR6WS29BT.

A cedar 8 ins. diam., bears S. 13° W. 147
                            lks. dist., marked T142NR6WS30BT.
          30 ft. below spur.
          Land, mountainous. Malpais formation.
          Soil, rocky; 4th. rate.
          Timber, a few cedars, and sycamores along creek.
          Undergrowth, oak, catclaw and laurel.
                                                    June 11, 1915.
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June 12, 1915; At 2h. 15m. a.m., by my watch which has

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Partial Subdivision of fracl. Tp. 14 N. Rg.
Chains.
              correct l.m.t., I observe Polaris at eastern elongation
              in accordance with Manual of Instructions, at the S. end
              of the meridian determined at my camp June 9, and mark
              a point in the line thus determined, on a peg driven in
           the ground, 5 chs. N. of my station.

At 6h. 45m. a.m., l.m.t., I lay off the azimuth of Polaris 1° 24' to the west, and mark the meridian thus de-
              termined, by cutting a small groove in the stone set
              June 9, on which the meridian falls 0.2 ins. east of
              the mark determined by the solar.
           At 7h. 00m. a.m., l.m.t., I set off 34° 37" N. on the lat. arc; 23° 08' N. on the decl. arc; and mark a point in
              the meridian determined with the solar, by a cross on
              the stone already set 5 chs. N. of my station;
           mark falls 0.2 ins. east of the meridian established by
              the Polaris observation.
           The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'll"
             west and east of the meridian determined by the Polaris
              observations; therefore; I conclude that the adjustments
           of the instrument are satisfactory. The magnetic bearing of the true meridian at 7h. 15m. a.
             m. is N. 15° 30' W.; the angle thus determined gives the mag. decl. 15° 30' E.
           I commence at the cor. of secs. 19, 20, 29 and 30.
           Thence I run
          West on a random line bet. secs. 19 and 30.

Set temp. ½ sec. cor.

Intersect W. bdy. of Tp. at the cor. of secs. 19, 24, and 30, established by me as described in Book "A."
 40.00
 79.98
           Thence I run
          East, bn a true line, bet. secs. 19 and 30.
Ascend S. W. slope through scattering brush.
          Spurbis SE. 26 ft. above cor. Descend.
Loco Creek25 lks. wide course S. 293 ft. below spur.
  3.23
 25.29
          Clear running water 12 ins. deep. Ascend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 39.99
             ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim;
                     \frac{1}{4}S19 in N. and
                     $30 in S. half; and raise a mound of stone 2 ft.
             base l^{\perp}_{Z} ft. high, N. of cor. Pits impracticable.
          Spur, br. S. 241 ft. above creek. Descend. Wash 15 lks. wide course S. 154 ft. below spur. Ascend.
41.00
50.09
          Spur, brs. SE. 303 ft. above wash. Descend.
66.20
          The cor. of secs. 19, 20, 29 and 30.
79.98
          238 ft. below spur.
          Land, mountainous. Malpais formation.
           Soil, rocky; 4th. rate.
          Timber, a few cedars.
          Undergrowth, oak, catclaw and laured.
June 12; At this cor. I set off 23° 08' N. on the decl.
             arc; and observe the sun on the meridian at noon; the resulting lat. is 34^{\circ} 37^{\circ} N.
          N. 0° 01' E. on a random line bet. secs. 19 and 20. Set temp. \( \frac{1}{4} \) sec. cor.

Intersect N. bdy. of Tp. at the cor. of secs. 19, 20, 31 and 32, established by me as described in Book "A."
 40.00
67.97
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Thence I run
S. 0° 01' W., on a true.line, beta, secs.19 and 20.

Ascend N. E. slope through scattering brush, and timber.

Spurbrs. SE. 108 ft. above cor. Descend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 27.97 ground for \(\frac{1}{4}\) sec. cor., marked on brass cap 1915 on S. rim;

 $\frac{1}{4}$ S19 in W. and

12.17

S20 in E. half; from which

## Subdivision of fracl. Tp. 14 N. Rg. 6 W. Partial Chains. A cedar 8 ins. diam., bears N. 4° W. 25 lks. dist., marked 1/4S19BT. A cedar 8 ins. diam., bears S. 60° E. 110 lks. dist., marked $\frac{1}{4}$ S20BT. Wash 10 lks. wide course E. 439 ft. below spur. Ascend. 36.63 Spur bears E. 178 ft. above wash. Descend. The cor. of secs. 19, 20, 29 and 30. 327 ft. below spur. 55.80 67.97 Land, mountainous. Malpais formation. Soil, rocky; 4th. rate. Timber, cedar. Undergrowth, oak, catclaw and laurel. June 12, 1915. June 15, 1915; At 8h. 00m. a.m., l.m.t., I set off 34° 35° N. on the lat. arc; 23° 18' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., established by me as described in Book "A." 79.79 Flaa Thence I run N. 0° 01' E. bet. secs. 32 and 33. This line runs across Sycamore Canyon very rough and impossible to chain, therefore I triangulate as follows; Set flag across canyon on line N. 0° Ol' E. and lay off a base N. 89° 59' W. 38.00 chs. from which point the angle to flag on N. side of canyon is 64° 32' then 38.00 X tan. 64° 32' (2.09969) = 79.79 chs. Point on point of mesa, thence descend cliff 10 ft. high. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33marked on brass cap 79.79 80.00 brass cap 1915 on S. rim; Tl4克NR6W in N. half; S29 in N. W. S28 in N. E. S33 in S. E. and S32 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor. on top of cliff 10 ft. Impracticable to establish mound W. of cor. From this cor. I run S. to set $\frac{1}{4}$ sec. cor. S. 0° Ol' W. bet. secs. 32 and 33. Ascend. Top of point of mesa 10 ft. above cor. descend, very 0.21 steep rough slope. Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap 40.00 1915 on S. rim; 4S32 in W. and S33 in E. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Sycamore Creek 50 lks. wide course W. 1150 ft. below point of mesa. Water in holes. 46.00 Line south ascends very rough and precipitous slope. Impossible to chain. Land, mountainous. Malpais formation. Soil, rocky; 4th. rate.

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

The line west descends very steep slopeover cliffs impossible to chain. Therefore I go to the cor. of secs. 29, 30, 31 and 32 from which the cor. of secs. 28, 29, 32 and 33 is plainly visible and bears N. 89° 58' E.

Timber, a few cedars, and sycamores along creek.

Undergrowth, oak, catclaw and laurel.

130K 2871

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Subdivision of fracl. Tp. 14 N. Rg. 6 W.
       Partial
Chains.
           From cor. of secs. 29, 30, 31 and 32 I lay off a base S. 0° 02' E. 40.00 chs. from which point angle to cor. of secs. 28, 29, 32 and 33 is 63° 27' then 40.00 X tan. 63° 27'(2.00131) = 80.05 chs.
                                                                                         N.89-58'E. 80.05
           From cor. of secs. 29, 30, 31 and 32 I run
                                                                                                 Sec. 32
           N. 89° 58' E. on a true line bet. secs. 29 and 32.
           Descend along rough N. E. slope through sacttering brush.
           Sycamore Creek, dry, 50 lks. wide course N. W. 96 ft. below cor. Ascend along S. W. slope.
  9.94
 27.74
           Spur, brs. NW. 450 ft. above creek.
 33.00
           Fence, wire, bears N. W. and S. E.
           Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for \(\frac{1}{4}\) sec. cor., marked on brass cap 1915 on S. rim;
 40.02늵
                      \frac{1}{4}S29 in N. and
                      $32 in S. half; and raise a mound of stone 2 ft.
              base l_2^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable.
           Line from here is too rough to chain.
           Distance determined by triagulation is
The cor. of secs. 28, 29, 32 and 33.
Land, mountainous. Malpais formation.
 80.05
           Land, mountainous.
           Soil, rocky; 4th. rate.
           Timber, scattering cedars, and sycamores along creek. Undergrowth, oak, catclaw and laurel.
                                                                June 15, 1915.
           June 16, 1915; At 8h. 00m. a.m., l.m.t., I set off 34° 36! N. on the lat. arc; 23^{\circ} 20\frac{1}{2}! N. on the decl. arc;
              and determine a meridian with the solar at the cor. of
           secs. 28, 29, 32 and 33.
Thence I run
N. 0° 01' E. bet. secs. 28 and 29.
           Descend along N. W. slope through scattering brush and
              timber.
           318 ft. below cor. Along general W. slope.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 13.50
 40.00
              ground for \frac{1}{4} sec. cor., marked on brass cap
                      1915 on S. rim;
                      \frac{1}{4}S29 in W. and
                      S28 in E. half; and raise a mound of stone 2 ft.
              base la ft. high, W. of cor. Pits impracticable.
          Wash 15 lks. wide course N. W. 551 ft. below cor. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on
58.93
80.00
              brass cap
                      1915 on S. rim;
                     Tl4ਰNR6W in N. half;
                     S20 in N. W.
                     S21 in N. E.
              S28 in S. E. and S29 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.
           140 ft. below wash.
           Land, mountainous. Malpais formation.
           Soil, rocky; 4th. rate.
           Timber, scattering cedars.
           Undergrowth, oak, catclaw and laurel. June 16, At this cor. I set off 23^{\circ}/20\frac{1}{2}! N. on the decl.
              arc; and observe the sun on the meridian at noon; the
              resulting lat. is 34° 37' N.
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West on a random line bet. secs. 20 and 29. 40.00 Set temp.  $\frac{1}{4}$  sec. cor. 80.05 Intersect N. and S. line at the cor. of secs. 19, 20, 29

31.21

40.00

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Partial Subdivision of Tp. 14 N. Rg. 6 W
Chains.
           and 30.
           Thence I run
           East on a true line bet. secs. 20 and 29.
           Descend steep rough E. slope through scattering brush and
          Cottonwood Creek, 20 lks. wide course S. W. 202 ft. below cor. clear running water 10 ins. deep. Ascend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 24.02
- 40 ∙02計
             ground for \( \frac{1}{4} \) sec. cor., marked on brass cap
                    1915 on S. rim;
                     \frac{1}{4}S20 in N. and
                     S29 in S: half; from which
                       A cedar 10 ins. diam., bears N. 7\frac{1}{4}° E. 22 lks.
                                dist., marked \frac{1}{4}S20BT.
                         A cedar 10 ins. diam., bears S. 46\frac{1}{4}° W. 42 lks.
                                dist., marked #S29BT.
          Wash 15 lks. wide course N. W. Wash 25 lks. wide course N. W.
 40.91
 62.13
           The cor. of secs. 20, 21, 28 and 29.
 80.05
           615 ft. above creek.
           Land, mountainous. Malpais formation.
           Soil, rocky; 4th. rate.
           Timber, cedar, and sycamores along creek.
           Undergrowth, oak, catclaw and laurel.
                                                            June 16, 1915.
           June 17, 1915: At 8h. 00m. a.m., l.m.t., I set off 34^{\circ} 37' N. on the lat. arc; 23^{\circ} 22\frac{1}{2}' N. on the decl. arc;
              and determine a meridian with the solar at the cor. of
              secs. 20, 21, 28 and 29.
           Thence I run
N. 0° 01' E. on a random line bet. secs. 20 and 21.
           Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. bdy. of Tp. 2 lks. W. of the cor. of secs.

20, 21, 32 and 33, established by me as described inBook"A"
 40.00
 67.97
           Thence I run
           S. 0° 02' W. on a true line bet. secs. 20 and 21.
           Descend S. slope through scattering brush and timber.
           Cottonwood Creek 40 lks. wide course W. 145 ft. below corclear running water 10 ins. deep. Ascend.
Set an iron post 3 ft. long, l in. diam., 26 ins. in the
  8.85
 27.97
             ground for \frac{1}{4} sec. cor., marked on brass cap
                     1915 on S. rim;
                     \frac{1}{4}S20 in W. and
                     S21 in E. half; from which
                         A cedar 14 ins. diam., bears N. 79\frac{1}{4} ^{\circ} W. 56
                         lks. dist., marked \frac{1}{4}S20BT. A cedar 12 ins. diam., bears S. 34\frac{3}{4}° E. 85
           lks. dist., marked \frac{1}{4}S21BT. Ridge bears E. and W. descend. 486 ft. above creek. Wash 10 lks. wide course S. W. 112 ft. below ridge.
 41.67
 67.62
           The cor. of secs. 20, 21, 28 and 29.
 67.97
           4 ft. above wash.
           Land, mountainous.
                                        Malpais formation.
           Soil, rocky; 4th. rate.
           Timber, cedar, and sycamores along creek.
           Undergrowth, oak and laurel.
                                                            June 17, 1915.
            June 18,1915.
            From corner of secs. 3,4,33 and 34 on S.-bdy. of Tp.,. described in Book "A," I run,
           N. 0° 02' E. bet. secs. 33 and 34.
           Ascend S. slope through scattering brush and timber.
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Ridge bears E. and W. 71 ft. above cor. Descend.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the

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Subdivision of fracl Tp. 14 N. Rg.
Chains.
              ground, for \frac{1}{4} sec. cor., marked on brass cap 1915 on S. rim;
                     \frac{1}{4}S33 in W. and
                     S34 in E. half; and raise a mound of stone 2 ft.
           base 12 ft. high, W. of cor. Pits impracticable. Sycamore Creek 50 lks. wide course S. W. 165 ft. below ridge, clear running water 10 lks. wide 10 ins. deep.
 67.90
 80.00
           Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked on
              brass cap
                     1915 on S. rim;
                     Tl4 NR6W in N. half;
                     S28 in N. W.
                     S27 in N. E.
             S34 in S. E. and S33 in S. W. quadrant; and raise a mound of stone 2 ft. base l\frac{1}{2} ft. high, W. of cor. Pits impracticable.
           Land, mountainous. Malpais formation.
           Soil, rocky; 4th. rate.
           Timber, cedar, and sycamores along creek.
           Undergrowth, oak and laurel.
                                                              June 18, 1915.
           June 19, 1915; At 7h. 00m. a.m., l.m.t., I set off 34^{\circ} 36^{\circ} N. on the lat. arc; 23^{\circ} 26\frac{1}{2}^{\circ} N. on the decl. arc;
              and determine a meridian with the solar at the cor. of
              secs. 27, 28, 33 and 34.
           Thence I run
           Nest on a random line bet. secs. 28 and 33.
 40.00
           Set temp. \frac{1}{4} sec. cor.
 80.02
           Intersect N. and S. line 4 lks. N. of the cor. of secs.
              28, 29, 32 and 33.
           Thence I run
N. 89° 58' E. on a true line bet. secs. 28 and 33.
           Ascend cliff
           Top of point of mesa, descend along S. E. slope. 10 ft.
  0.20
          above cor. Through scattering brush and timber. 20 ft. below point of mesa. Ascend along S. W. slope. Top of mesa, 118 ft. above 5.00 ch. point. and over roll-
  5.00
 16.80
              ing top of mesa.
           Descend S. E. slope of mesa.
 29.30
           Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.01
             ground for \(\frac{1}{4}\) sec. cor., marked on brass cap 1915 on S. rim;
                     \frac{1}{4}S28 in N. and
                     S33 in S. half; and raise a mound of stone 2 ft.
          base l^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable. The cor. of secs. 27, 28, 33 and 34. 877 ft. below mesa.
 80.02
           June 19; At this cor. I set off 23° 26' N. on the decl.
             arc; and observe the sun on the merdiian at noon; the resulting lat. is 34° 37' \ensuremath{\text{N}_{\bullet}}
           Land, mountainous. Malpais formation.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, oak and laurel.
```

Line ascends steep slope broken with cliffs. Impossible to chain.

I set flag on line N. 0° 02' E. on rim of mesa and lay off a base N. 89° 58' W. 10.00 chs. from which point angle to flag on rim is 68° 04', then, 10.00 X tan. 68° 04'(2.4834)=24.83 chs.

N. 0° 02' E. bet. secs. 27 and 28.

FLAG 24.83

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Partial
                   Subdivision of fracl. Tp. 14 N. Rg.
Chains.
          Point on rim of mesa, 900 ft. above cor. and over rolling
 24.83
             top of mesa.
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
             ground, for \frac{1}{4} sec. cor., marked on brass cap
                   1915 on S. rim;
                   \frac{1}{4}S28 in W. and S27 in E. half; and raise a mound of stone 2 ft.
          base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on
 80.00
             brass cap
                   1915 on S. rim;
                   Tl4 NR6W in N. half;
                   S21 in N. W.
                   S22 in N. E.
             S27 in S. E. and S28 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. S. slope and rolling top of mesa.
             malpais formation.
          Soil, rocky; 4th. rate.
          Timber, scattering cedars.
          Undergrowth, oak ahd laurel.
                                                        June 19, 1915.
          June 21, 1915: At 7h. 00m. a.m., l.m.t., I set off 34°37' N. on the lat. arc; 23°28' N. on the decl. arc; and
             determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28.
          Thence I run S. 89° 58' W. on a random line bet. secs. 21 and 28.
          Set temp. \(\frac{1}{4}\) sec. cor.
 40.00
          Intersect N. and S. line 7 lks. S. of the cor. of secs.
 79.94
          20, 21, 28 and 29. Thence I run
          S. 89° 59' E. on a true line bet. secs. 21 and 28.
          Ascend, through scattering brush and timber. Wash 15 lks. wide course N. W.
   4.87
          Wire fence bears N. W. and S. E.
   6.24
          Wash 10 lks. wide course S. W.
 16.05
  30.00
          Slope becomes very steep and rough.
          Set an iron post 3 ft. long, 1 in. diam., 20 ins. in the ground, in a mound of stone for \frac{1}{4} sec. cor. marked on
 39.97
             brass cap
                    1915 on S. rim;
                    \frac{1}{4}S21 in N. and
                    S28 in S. half; and raise a mound of stone 2 ft.
             base 1\frac{1}{2} ft. high, N.of cor. Pits impracticable.
          Rim of mesa, 670 ft. above cor, and over rolling top of
 63.65
          The cor. of secs. 21, 22, 27 and 28.
 79.94
          Landm mountainous. Malpais formation.
          Soil, rocky; 4th. rate.
          Timber, cedar.
          Undergrowth, oak and laurel.
          N. 0° 02' E. on a random line bet. secs. 21 and 22. Set temp. \frac{1}{4} sec. cor.
  40.00
           Intersect N. bdy. of Tp. 2 lks. W. of the cor. of secs. 21, 22, 33 and 34 established by me as described in
 67.90
            Book "A."... Thence I run,
           S. 0° 03' W. on a true line bet. secs. 21 and 22.
           Ascend, through scattering brush and timber.
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
  27.90
```

BOCK 287!

9

Partial Subdivision of fracl. Tp. 142 N. Rg. 6 W.

Chains.

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

 $\frac{1}{4}$ S21 in W. and S22 in E. half; from which

A cedar 10 ins. diam., bears N.  $67\frac{1}{2}^{\circ}$  W. 188 lks. dist., marked  $\frac{1}{4}$ S21BT. A cedar 6 ins. diam., bears S.  $25\frac{1}{2}^{\circ}$  E. 194

lks. dist., marked  $\frac{1}{4}$ S22BT.

55.10 Rim of mesa, 315 ft. above cor., and over rolling top of mesa.

The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Malpais formation. 67.90

Soil, rocky; 4th. rate. Timber, cedar.

Undergrowth, oak and laurel.

June 21, 1915.

#### GENERAL DESCRIPTION.

This fracl. township is extremely rough and mountainous, and the soil is generally rocky and worthless for There is a scattering growth of cedar agriculture. on the slopes and sycamore grows along the creeks. Sycamore, Cottonwood and Smith Canon Creeks flow through the township but are dry in summer. There is a fair growth of grass in the township. The formation is volcanic. There is one settler in sec. 30.

John 4. Hesse U. S. Surveyor.

### FINAL OATH OF UNITED STATES SURVEYOR. See Book "B" of this Group. For

I,	, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U.S. Sur	rveyor General for
	, 191 , I have well, faithfully and truly,
	ity with said instructions, the Manual of Surveying
	urveyed all those parts or portions of
	of the
_	, which are represented in
	d by me, and under my direction; and I do further
	have been established and perpetuated in strict accord-
	nd the special written instructions of the U.S. Surveyor
General forand in t	he specific manner described in the field notes, and that
the foregoing are the original field notes of such s	urvey.
	T. C. C
	U. S. Surveyor.
Subscribed by said	, and sworn to before me)
thisday of	
,	,
SEAL S	
APPI	ROVAL.
Ommon on a	THE UNITED STATES SURVEYOR GENERAL,
Phoe	nix, Arizona, FFB 1.8 . , 1916.
The foregoing field notes of the survey oft	he
Subdivision Line	es of
Fractional Township 14: Nort	h, Range 6 West (West half)
of the Gila and Salt River Bas	e and Meridian, in the State of Arizons
executed by John 3. Hesse U.	S. Surveyor.
•	26,1915, for Group 37, having been
•	s and explanations made, the said field notes, and the
	s and explanations made, the said held notes, and the
surveys they describe, are hereby approved.	Ahank Wollook
	Surveyor General.
I certify that the foregoing transcript of the fi	of Arizona.
, nas been correct	ly copied from the original notes on file in this office.
6—2764	-Summer Concert