Book "B."

BOOK 2865

Subdivisions

FIELD NOTES

Ge-OF THE SURVEY OF THE

Gila and Salt	River Meridian, through Township 16 N.,	
VI G CHILL POLLS		
	andand	
Survey of page 1	art of the Subdivision Lines, of	
Towns	hip 16 North, Range 1 East,	
		
		-
	· m	
Of theGila	a and Salt River Base and Meridian,	
•		
In the State of	Arizona.	
	EXECUTED BY	
	John F. Hesse,	
4	U. S. Surveyor,	-
In the capacity of U.S. Sur	veyor, under instructions dated Sept. 26, , 191	4,
issued by the United Sta	tes Surveyor General to govern surveys included	ın
Group No. 37 , which	h were approved by the Commissioner of the General La	nd
Office, October 3.	1971.	
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73 27. 6 9	on and on the one of the one	
Kesurvey& Survey comme	enced October 24., 1914	
Resurvey& Survey comple	ted November 4, , 1914	

BOCK 2865

Book "B."

INDEX DIAGRAM. Township 16 North, Range 1 East. Standard Harallel North. 4th. 6 Gila & Salt River Meridian 3 6-- 151

	Notes	in	this	Book	(indexed)
	Accept	ted	surve	eys.	
_	Unsur	re ve	ed lir	nes.	

Note The United Verde & Pacific Railway is designated in these field notes as "U.V. & P. Ry."

2865

Resurvey of the G. & S. R. Meridian through To.

Chains. Survey commenced October 24, 1914, 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 correct the level and collimation errors; 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 at the cor. of secs. 13, 18, 19 and 24 on the E. bdy. of Tp. 16 N. Rg. 1 W.; latitude 34° 45" N.; longitude 112° 18'/28" W.; I set off 34° 45½" N. on the lat. arc; 11° 41' S. on the decl. arc; and at 4h. 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.

October 24, 1914.

October 25, 1915: At 5h. 16m. a.m., by my watch which has correct l.m.t., I observe Polaris at western elongation in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 7h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris

1° 24' to the east, and mark the meridian thus determined

ed, by cutting a small groove in the stone set October 24, on which the meridian falls 0.1 ins. east of the

mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off 34°452 N. on the lat. arc; 11°,55' S. 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; this mark falls 0.3 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 0'05" west and 0' 16" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 15m. a. m. is N. 14° 45' W.; the angle thus determined gives the mag. decl. 14° 45' E.

October 25, 1915.

October 26, 1914; At 8h. 00m. a.m., l.m.t., I set off 34° 43'' N. on the lat. arc; 12°' 16' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 15 and 16 N. Rgs. 1 E. and 1 W. which is an iron post 3 ins. diam., 12 ins. above ground, with brass cap marked and witnessed as described by the surveyor general.

North on a random line, making careful search at 40.00 and 80.00 chs. for the $\frac{1}{4}$ sec. and sec. cors. but with

out success until at

Intersect 4th. Standard Parallel North, 12 lks. W. of the Standard cor. of Tps. 16 and 17 N. Rgs. 1 E. and 1 W. which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.

483.54

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Resurvey of the G. & S. R. Meridian through Tp. 16 N.
Chains.
          The course of this line as thus determined is N. 0° 01'
             Ε.
                                                       ... October 26, 1914.
          October 27, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 43' N. on the lat. arc; 12^{\circ}\sqrt{36\frac{1}{2}}' S. on the decl. arc;
             and determine a meridian with the solar at the cor. of
             Tps. 15 and 16 N. Rgs. 1E. and 1 Whereinbefore describ-
             ed
          Thence I run
          N. 0° 01' E. on E. bdy. of sec. 36 setting \frac{1}{4} sec. and sec.
             cors. at distances proportional to those given in the notes of the original survey, to refer to secs.in T16NR1 W.
          Over rolling land.
 40.29 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
                   1914 on S. rim; .
                   ½$36 in W. €
                              . half; and raise a mound of stone 2 ft.
             base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
 55.50
          Wash 6 lks. wide course W.
          Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 77, 71 and 36, marked on 3
 80.59
             brass cap
                   1914 on S. rim;
                   Tl6N in N. half; and
                   $30 $31 RIE in .E. half;
                   S25 in N. W. and
                   S36 RIW in S. W.
        NW. & SW. of post 6 ft. dist., and raise a mound of earth
                                    quadrant; dig pits 24 x 24 x 12 ins.
            4 ft. base 2 ft. high, W. of cor.
          Land, rolling.
          Soil, sandy loam, mixed with gravel, dry, medium texture;
            2nd. rate.
          No timber.
          Good grass.
          N. O' Ol' E. bate. bdy fof sec. 25.
          Over rolling land.
10.20 Wash 7 lks. wide course S. W.
40.29 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
                   1914 on S. rim;
                   \frac{1}{4}S25 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. Gully 10 lks. wide course W. 10 ft. deep. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 24 and 25, marked on brass cap
 52.65
 80.59
                   1914 on S. rim;
                   Tl6N in N. and Sl9 S30 RlE in E. half;
                   S24 in N. W. and
                   S25 RlW in S. W. quadrant; dig pits 24 x 24 x 121ns.
        NW.& SW. of post, 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
          Land, rolling.
          Soil, loam mixed with clay, dry, medium texture; 1st. rate.
          No timber.
          Good grass.
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Resurvey of the G. & S. R. Meridian, through Tp. 16 N.
Chains.
         N. 0° 01' E. on E. bdy. of sec. 24.
         Over rolling land.
 13.75
         Gully 5 lks. wide course N. W.
         Road bears E. and W.
 28.46
         U. V. & P. Ry. bears E. and W.
 29.78
 30.39
         Road bears E. and W.
         Telegraph line bears E. and W.
 30.54
         Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40 • 29불
            ground for \frac{1}{4} sec. cor., marked on brass cap
                  1914 on S. rim;
         \frac{1}{4}S24 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. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 80.59
            ground for cor. of secs. 13 and 24, marked on brass cap
                  1914 on S. rim; T16N in N. and
                  S18 S19 RlE in E. half;
                  Sl3 in N. W. and
                  S24 R LVIn S. W. quadrant; dig pits 24 x 24 x 12 ins.
             NW.& SW. of post6 ft. dist., and raise a mound of
            earth 4 ft. base 2 ft. high, W. of cor.
         From this cor.
           Wm. Gray house bears N. 64° 41' E.
            Wm. Gray windmill bears N. 64° 28' E.
            House bears N. 14° 47' E.
         October 27: At this cor. I set off 12° 41' S. on the decl
            arc; and observe the sun on the meridian at noon; the resulting lat. is 34^{\circ}45^{\circ}_{2} ' N.
         Land, rolling.
         Soil, sandy loam, dry, medium texture; 1st. rate.
         No timber.
         Good grass.
         N. 0° 01' E. on E. bdy. of sec. 13.
         Over gently rolling land.
10.90
         Wash 30 lks. wide course S. W.
40.29\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
                  1914 on S. rim; \frac{1}{4}S13 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.
         From this cor.
            House noted above bears N. 20° 47' E. Ford's house bears N. 34° 35' E.
            Wm. Gray house bears N. 85° 06 E.
           Wm. Gray windmill bears N. 87° 15' E.
49.00
         Wash 5 lks. wide course W.
         Old road bears N. E. and S. W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 12 and 13, marked on brass cap
71.95
80.59
                  1914 on S. rim;
                  Tl6N in N. and
                  S7 S18 RlE in E. half;
                  S12 in N. W. and
            S13 RlW in S. W. quadrant; dig pits 24 x 24 x 12 ins.
            earth 4 ft. base 2 ft. high, W. of cor.
         From this cor.
           Ford's house bears N. 68° 44' E.
         Land, rolling.
         Soil, sandy loam, dry, medium texture; 1st. rate.
         No timber.
         Good grass.
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Resurvey of the G. & S. R. Meridian, through Tp. 16 N.
Chains.
         N. 0° 01' E. bn E. bdy. of secs 12.
         Over rolling land.
         Road bears E. and W.
35.42
         Road bears N. E. and S. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
37.60
40 • 29분
            ground for \frac{1}{4} sec. cor., marked on brass cap
                  1914 on S. rim;
            \frac{1}{4}S12 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.
         From this cor.
            W. Dine house bears S. 88° 36' E. 14.50 chs.
         Old road bears N. E. and S. W.
46.16
         Wash 12 lks. wide course W. Road bears N. W. and S. E.
53.56
70.15
         Road bears E. and W.
73.85
         Set an iron post 3 ft. long, 3 ins.diam., 24 ins. in the ground for cor. of secs. 1 and 12, marked on brass cap
80.59
                  1914 on S. rim;
                  Tl6N in N. and
S6 S7 RlE in E. half;
                  S1 in N. W. and
S12 RlW in S. W. quadrant; dig pits 24 x 24 x 12 ins.
            NW. & SW. of post 6 ft. dist., and raise a mound of
            earth 4 ft. base 2 ft. high, W. of cor.
         From this cor.
            Gallows frame bears N. 4° 46' W.
            Stack on shaft house bears N. 4° 29' W.
         Land, rolling.
         Soil, sandy loam, dry, medium texture; 1st. rate.
         No timber.
         Good grass.
         N. 0° 01' E. on E. bdy. of sec. 1
         Over rolling hilly land, along W. slope of ridge.
         Road bears N. W. and S. E.
 2.50
         Gully 6 lks. wide course S. W.
23.00
31.00 Through scattering oak brush and timber. 40.29\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
                  1914 on S. rim;
                  ‡Sl in W. half; from which
                      A pinon 6 ins. diam., bears S. 70\frac{1}{2}^{\circ} W. 20
                            lks. dist., marked \frac{1}{4}SlBT.
            No other bearings available. Raise a mound of stone 2
            ft. base l_{\mathbb{Z}}^{\frac{1}{2}} ft. high, W. of cor. Pits impracticable.
         From this cor.
            Gallows frame bears S. 64° 14' W.
            Stack on shaft house bears S. 50° 01' W.
         Wash 12 lks. wide course S. W.
41.00
53.60
         Wash 10 lks. wide course W.
         Wash 10 lks. wide course W.
57.25
         Ascend S. W. slope through heavy timber.
Along rough W. slope.
The standard cor. of Tps. 16 and 17 N. Rgs. 1 E. and 1 W.
71.75
77.00
80.59
         hereinbefore described
         Land, hilly and mountainous. Soil, sandy loam, mixed with rocks and gravel, 4 ins.
            deep on rock. 3rd. rate.
         Timber, cedar and pinon.
         Undergrowth, oak and cedar.
         Fair grass.
                                                      October 27, 1914.
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Partial Subdivision of Table Tp. 16 N. Rg. Chains. October 28, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 43! N. on the lat. arc; $12^{\circ}/56\frac{1}{2}$! S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. which is and iron post 3 ins. diam., 14 ins. above ground, with brass cap, marked and witnessed as described by the surveyor general. Thence I run
N. 0° 02' W. bet. secs. 33 and 34. Over rolling land. Wash 10 lks. wide course N. W. 5.90 Road bears N. W. and S. E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 22.35 40.00 ground for $\frac{1}{4}$ sec. cor., marked on brass cap. 1914 on S. rim; \$33 in W. and S34 in E. half; and raise a mound of stone 2 ft. base 1½ 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. 27, 28, 33 and 34, marked on 80.00 brass cap 1914 on S. rim; T16NRLE in N. half; S28 in N. W. S27 in N. E. S34 in S. E. and S33 in S. W. 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 $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling. Soil, clayey loam, dry, fine texture; 1st. rate. No timber. October 28, 1914. October 29, 1914; At 8h. 00m. a.m., l.m.t., I set off 34° 44' N. on the lat. arc; 13° 17' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34. Thence I run N. 0° 02' W. bet. secs. 27 and 28. Ascend, through very scattering brush. Abandoned house bears N. 15° E. 1.00 Shaft bears N. 26° 50' E. Shaft bears N. 48° 34' E. Ahandoned house bears N. 26° E. 8.22 Shaft bears N. $51\frac{1}{4}^{\circ}$ E. Shaft bears N. 76° 14' E. Ridge bears N. E. and S. W. Descend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 16.40 40.00 ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; $\frac{1}{4}$ S28 in W. and \$27 in E. 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 la ft. high, W. of cor. 45.00 Low ridge bears N. E. and S. W. Descend. 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 55.00 80.00 brass cap 1914 on S. rim; Tl6NRlE 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 12 ft. high, W. of cor. Pits impracticable.

Land, mountainous.

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Partial
                 Subdivision of Paral. Tp. 16 N. Rg. 1 E.
Chains
         Soil, rocky; 4th. rate.
         No timber.
         Undergrowth, oak.
         Fair grass.
        N. 0° 02' W. bet. secs. 21 and 22.
        Over rolling hilly land, gradually descending.
        M. J. Ritter house bears N. 35° 23' W.
 12.82
                         barn bears N. 38° 23' W.
         Wash 25 lks. wide course W. 12 ft.
 23.84
                                                   deep.
         M. J. Ritter house bears N. 45° 45' W.
 24.00
                         barn bears N. 49° 45' W.
         Wash 40 lks. wide course W. 12 ft. deep.
 27.18
         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 1914 on S. rim;
                  \frac{1}{4}S21 in W. and
                  S22 in E. 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 l\frac{1}{2} ft. high, W. of cor. Gully 15 lks. wide course S. W. 8 ft. deep.
 45.16
         Gully 20 lks. wide course S. W. 8 ft. deep. U. V. & P. Ry. bears N. E. and S. W.
 45.45
 45.86
         Telegraph line bears N. E. and S. W.
 46.71
         Wash 15 lks. wide course S. W. Wash 20 lks. wide course S. W.
 48.25
 69.32
 72.00
         Ascend steep S. slope.
         Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on b
 80.00
            brass cap
                  1914 on S. rim;
                  Tl6NRlE in N. half;
                  Sl6 in N. W.
                  S15 in N. E.
            S22 in S. E. and S21 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, oak.
         October 29: At this cor. I set off 13° 212 N. on the
            decl. arc; and observe the sun on the meridian at noon;
            the resulting lat. is 34° 45½' N.
         N. 0° 02' W. bet. secs. 15 and 16.
         Ascend through scattering brush.
  .75
         Ridge bears N. W. and S. E. descend. Wash 8 lks. wide course S. E. ascend.
 9.25
         Slope becomes very steep.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 38.00
 40.00
            ground for \( \frac{1}{4} \) sec. cor., marked on brass cap
                  1914 on S. rim; \frac{1}{4}S16 in W. and
                  S15 in E. half; and raise a mound of stone 2 ft.
            base 12 ft. high, W. of cor. Pits impracticable.
         Top of St. Matthews Mtn. descend steep N. slope.
 44.14
         Gulch 10 lks. wide course E. Ascend.
 59.15
        Ridge bears E. and W. descend.
         Gulch 15 lks. wide course E. Ascend along S. E. slope of
 73.00
            ridge.
         Set an iron post 3 ft. long, 2 ins. diam.,
                                                             24 ins. in the
 80.00
            ground for cor. of secs. 9, 10, 15 and 16, marked on
            brass cap
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FOOK 2865

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Subdivision of final. Tp. 16 N. Rg. 1 E.
   Partial
Chains.
                     1914 on S. rim;
                     Tl6NRlE in N. half;
                     S9 in N. W.
                     S10 in N. E.
                     Sl5 in S. E. and
                     S16 in S. W. quadrant; and raise a mound of stone
              2 ft. base 12 ft. high, W. of cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, oak.
           Poor grass.
                                                             October 29, 1914.
           October 28, 1914.
           From the cor. of secs. 4, 5, 32 and 33, on 3.bdy.of Tp.an iron post 3 ins. diam., 14 ins. above ground, with brass cap
           marked and witnessed as described by the surveyor general, I run N.0°2'W. bet. secs.32 and 33.

Ascend along S. W. slope, through scattering brush.

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
                     1914 on S. rim;
                     \frac{1}{4}S32 in W. and S33 in E. half; and raise a mound of stone 2 ft.
          base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable. Ridge bears N. W. and S. E. Descend. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked on
 47.50
 80.00
              brass cap
                     1914 on S. rim;
                     Tl6NRlE 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 1½ ft. high, W. of cor. Pits impracticable.
           Land, mountaihous.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, oak.
     S.89°51 Eon a random line bet. secs. 28 and 33.
           Set temp. \frac{1}{4} sec. cor.
 40.00
           Intersect N. and S. line 15 lks. N. of the cor. of secs.
 80.29
              27, 28, 33 and 34.
           Thence I run N. 89° 45' W. on a true line bet. secs. 28 and 33.
           Over rolling land, gradually ascending.
           Road bears N. W. and S. E.
 35.60
 37.30 Ridge bears N. and S. Descend. 40.14\frac{1}{2} Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
              ground for 4 sec. cor., marked on brass cap 1914 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. Wash 8 lks. wide course S. W. ascend.
 57.60
           Low ridge bears N. and S. descend.
 65.00
           Wash 3 lks. wide course N. W. The cor. of secs. 28, 29, 32 and 33. Land, mountainous and rolling.
 80.00
 80.29
           Soil, rocky; 4th. rate.
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No timber.

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Partial
                   Subdivision of reacl. Tp. 16 N. Rg. 1 E.
Chains.
          Undergrowth, oak.
          Fair grass.
                                                       October 28, 1914.
          October 31, 1914; At 8h. 00m. a.m., l.m.t., I set off 34° 44' N. on the lat. arc; 13^{\circ} 56\frac{1}{2} S. on the decl. arc;
            and determine a meridian with the solar at the cor. of
            secs. 28, 29, 32 and 33.
         Thence I run
N. 0°.02' W. bet. secs. 28 and 29.
  .05
          Wash 3 lks. wide course N. W. ascend.
 15.00
         Ridge bears E. and W. descend.
 27.00
          Over rolling land.
          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
                   1914 on S. rim;
                   \frac{1}{4}S29 in W. and
                   S28 in E. 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.
 44.30
          Wash 25 lks. wide course W.
          Road bears N. W. and S. E.
 54.25
          Wash 10 lks. wide course S. W.
 68.55
          Wash 5 lks. wide course S. W.
 70.75
          Wash 10 lks. wide course S. W.
 75.50
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for witness cor. Vof secs. 20, 21, 28 and 29,
 78.50
            marked on brass cap, WC N. of center;
                   1914 on S. rim;
                   Tl6NRlE 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 l_{\mathbb{R}}^{\frac{1}{2}} ft. high, W. of cor. Pits impracticable.
          True point for cor. falls in wash 70 lks.wide, course SW.
 80.00
         Soil, S. 27.00 chs. rocky; 4th. rate. N. 53.00 chs. sandy loam, mixed with adobe, 2nd. rate.
          Timber, scattered oak on N. slope of ridge.
          Fair grass.
          Land, rolling and mountainous.
   S.89°45 E. on a random line bet. secs. 21 and 28.
          From true point for cor.
          Set temp. \frac{1}{4} sec. cor.
 40.00
          Fall 10 lks. S., of cor. of secs. 21, 22, 27 and 28.
.80.16
          Thence I run
N. 89° 49' W. on a true line bet. secs. 21 and 28.
          Through scattering brush, descending.
          Wash 8 lks. wide course N. W. ascend.
  2.50
         Ridge bears N. and S. descend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 22.60
 40.08
            ground for \frac{1}{4} sec. cor., marked on brass cap
                   1914 on S. rim;
                   \frac{1}{4}S21 in N. and
                   S28 in S. half; and raise a mound of stone 2 ft.
          base l^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable. Over rolling land.
 43.00
          Wash 10 lks. wide course N. W.
 45.00
          Wash 10 lks. wide course S. W.
 69.75
          The true point for cor. of secs. 20, 21, 28 and 29. October 31; At this pt., I set off 14° 01' S. on the declarc; and observe the sun on the meridian at noon; the resulting lat. is 34° 44½' N.
 80.16
          Land, rolling and mountainous.
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Subdivision of 1. 1.2.1. Tp. 16 N. Rg. 1 E.
Chains.
         Soil, E. half mile rocky; 4th. rate.
                                                        W. half mile,
           loam and adobe 2nd. rate.
         No timber.
         Undergrowth, oak.
         Fair grass.
         N. 0° 02' W. bet. secs. 20 and 21.
         From true point for cor.
 1.08
1.36
        U. V. & P. Ry. bears N. E. and S. W. Wash 40 lks. wide course S. W.
         Telegraph line bears N. E. and S. W.
  1.90
        Road bears N. E. and S. W. ascend. Scattering brush.
  2.65
         Ridge bears E. and W. descend.
25.50
         Wash 10 lks. wide course S. E. ascend.
 30.00
 36.00
         Spur S. E. descend.
        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
                 1914 on S. rim;
                 \frac{1}{4}S20 in W. and
                 S21 in E. half; and raise a mound of stone 2 ft.
           base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
        Wash 10 lks. wide course S. E. ascend.
43.50
53.00
         Ridge bears E. and W. descend.
        Wash 70 lks. wide course N. W. and over rolling hilly land. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on
76.00
80.00
           brass cap
                 1914 on S. rim;
                 Tl6NRlE in N. half;
                 S17 in N. W. S16 in N. E.
                 S21 in S. E. and
                 S20 in S. W. quadrant; and raise a mound of stone
           2 ft. base lt ft. high, W. of cor. Pits impracticable.
         Land, mountainous.
         Soil, rocky; 4th. rate.
         Timber, a few cedars on top of ridges.
         Undergrowth, oak.
         S. 89° 49' E. on a random line bet. secs. 16 and 21.
         Set temp. 1 sec. cor.
40.00
80.22
         Intersect N. and S. line 5 lks. N. of the cor. of secs.
           15, 16, 21 and 22.
         Thence I run
        N. 89° 47' W. on a true line bet. secs. 16 and 21.
         Through scattering brush. Ascend.
  7.50
        Ridge bears N. E. and S. W. descend.
         Wash 20 lks. wide course S. W. Ascend.
 18.00
21.47
        Ridge bears N. and S. decsend.
        Wash 15 lks. wide course S. ascend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
25.72
40.11
           ground for \frac{1}{4} sec. cor., marked on brass cap
                 1914 on S. rim;
                 \frac{1}{4}Sl6 in N. and
                 $21 in S. half; and raise a mound of stone 2 ft.
           base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
        Ridge on S. slope of Peak. Peak bears N. about 5.00 chs.
43.20
           dist. 1750 ft. high. Descend.
69.20
          Ascend.
        Top of round hill. Descend. The cor. of secs. 16, 17, 20 and 21.
72.70
80.22
        Land, mountainous.
        Soil, rocky; 4th. rate.
        Timber, a few cedars.
        Undergrowth, oak.
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October 31, 1914.

10 Pa	artial Subdivision of Tract. Tp. 16 N. Rg. 1 E.
Chains.	
	November 1, 1914; At 8h. 30m. a.m., l.m.t., I set off 34° $45\frac{1}{2}$ ' N. on the lat. are; 14° , $16\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21. Thence I run
10.00 25.25 31.25	N. 0° 02' W. bet. secs. 16 and 17. Through scattering brush. Along at foot of high mountain. Wash 50 lks. wide course W. Ridge bears E. and W. Ridge bears E. and W. Descend.
38.00 40.00	Wash 10 1ks.wide, course W. Set an iron post 3 ft, long, 1 in. diam., 26 ins. in the ground for ½ sec. cor., marked on brass cap 1914 on S. rim; ½S17 in W. and
69.62	Sl6 in E. half; from which A juniper 24 ins. diam., bears N. 32° W. 267 lks. dist., marked \(\frac{1}{4}\)Sl7BT. A tree, species unknown, bears N. 6\(\frac{3}{4}\)° E. 246 lks. dist., 5 ins. diam., marked \(\frac{1}{4}\)Sl6BT. Wash 25 lks. wide course W.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass cap 1914 on S. rim;
	Tl6NRlE in N. half; S8 in N. W. S9 in N. E. S16 in S. E. and S17 in S. W. quadrant; dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous. Soil, rocky; 4th. rate. Timber, a few cedars and junipers. Undergrowth, oak. Fair grass. November 1, 1914; At this cor. I set off 14° 20' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 46½! N.
	S. 89° 47' E. on a random line bet. secs. 9 and 16.
40.00 80.30	Set temp. \(\frac{1}{4}\) sec. cor. Intersect N. and S. line 5 lks. N. of the cor. of secs. 9, 10, 15 and 16. Thence I run
5.00 36.70 40.15	ground for ½ sec. cor., marked on brass cap 1914 on S. rim; ½89 in N. and
42.90 64.40 67.25 72.00 80.30	S16 in S. half; and raise a mound of stone 2 ft. base 1 ft. high, N. of cor. Pits impracticable. Ridge bears N. and S. descend. Wash 15 lks. wide course S. W. Wash 20 lks.wide, course SW.; ascend. Spur,brs.descend. The cor. of secs. 8, 9, 16 and 17. Land, mountainous. Soil, rocky; 4th. rate.
	Timber, a few scattering cedars and junipers: Undergrowth, oak.
	November 1, 1914.

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Subdivision of Lauch. Tp. 16 N. Rg. 1 E.
       Partial
Chains. October 28,
                          1914:
                        At the cor. of secs. 5, 6, 31 and 32, on the
            S. bdy. of the Tp. which is an iron post 3 ins. diam.,
            14 ins. above ground, with brass cap, marked and witnessed as described by the surveyor general,

I set off 13° 01½ S. on the decl. arc; and
            observe the sun on the meridian at noon; the resulting lat. is 34^{\circ} 43^{\circ} N.
          Thence I run
          N. 0° 03' W. bet. secs. 31 and 32.
          Over rolling land.
          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
                   1914 on S. rim;
                   \frac{1}{4}S31 in W. and
                   S32 in E. 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.
          Wash 30 lks. wide course W.
 47.07
          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
                                                                  24 ins. in the
 80.00
             brass cap
                   1914 on S. rim;
                   Tl6NRlE 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 lt ft. high, W. of cor. Pits impracticable.
          Land, rolling.
          Soil, clayey loam, mixed with rocks and gravel; 2nd.
            rate.
          No timber.
          Good grass.
    S.89°51 E.on a random line bet. secs. 29 and 32.
 40.00 | Set temp. \frac{1}{4} sec. cor. 80.18 | Intersect N. and S. line 15 lks. N. of the cor. of secs.
             28, 29, 32 rand33.
          Thence I run
          N. 89°, 45' W. on a true line bet. secs. 29 and 32.
          Descend gradually in narrow valley.
          Wash 10 lks. wide course S. W.
  9.30
          Leave valley and over rolling land.
 15.00
          Road bears N. and S.
 37.10
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.09
             ground for \frac{1}{4} sec. cor., marked on brass cap
                   1914 on S. rim;
                   \frac{1}{4}S29 in N. and
            S32 in S. 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. high, N. of cor.
          The cor. of secs. 29, 30, 31 and 32.
 80.18
          Land, rolling.
          Soil, Loam mixed with adobe; 2nd. rate.
          No timber.
          Good grass.
          Knowing from resurvey of G.& S.R.Mer. that closing cors.
will be required for west tier of secs.in this Tp.I run
W.om a true line, bet. secs. 30 and 31.
          Over gently rolling land.
          Wash 5 lks. wide course S. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 23.50
 40.00
             ground for \frac{1}{4} sec. cor., marked on brass cap
                   1914 on S. rim;
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LS30 in N. and

S31 in S. half; dig pits 18 x 18 x 12 ins. E. and

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Partial Subdivision of freel. Tp. 16 N. Rg. 1 E
Chains.
             W. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2}
             ft. base l^{\frac{1}{2}} ft. high, N. of cor.
          Intersect G. & S. R. Meridian 95 lks 3000 the cor. of secs. 25 and 36 reestablished by me as hereinbefore described, Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 78.66
             ground, for closing cor. of secs. 30 and 31, marked on
             brass cap
                    1914 on S. rim; CC W. of center;
                    Tl6N in N. and
                    S25 S36 RlW in W. half;
                    S30 in N. E. and
          S31 RlE in S. E. quadrant; Dig pits, 24 \times 18 \times 12 ins. crosswise on each line, N. and S., 3 ft., and E. of post 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
          Land, rolling.
          Soil, clayey loam, many loose rocks; 3rd. rate.
          No timber.
          Good grass.
                                                           October 28, 1914.
          November 2, 1914: At 8h. 30m. a.m., l.m.t., I set off 34° 44' N. on the lat. arc; 14° 35\frac{1}{2}' S. on the decl. arc;
             and determine a meridian with the solar at the cor. of
             secs. 29, 30, 31 and 32.
          Thence I run
          N. 0° 03' W. bet. secs. 29 and 30.
          Over gently rolling land.
 12.50
          Wash 20 lks. wide course W. Wash 14 lks. Wide course W.
 35.40
          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
                    1914 on S. rim;
                    \frac{1}{4}S30 in W, and
                    S29 in E. 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, la ft. high, W. of cor.
 57.00
          Wash 100 lks. wide course W.
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on b
 80.00
             brass cap
                    1914 on S. rim;
                    Tl6NRlE in N. half;
                    S19 in N. W.
                    S20 in N. E.
             S29 in S. E. and S30 in S. W. quadrant; dig pits, 18 \times 18 \times 12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth
             4 ft. base la ft. high, W. of cor.
          Land, rolling.
          Soil, clayey loam, 2nd. rate. No timber.
          Good grass.
          S. 89° 45' E. on a random line bet. secs. 20 and 29.
          Set temp. \frac{1}{4} sec. cor.
 40.00
          Intersect N. and S. line 7 lks. N. of point for cor. of secs. 20, 21, 28 and 29.
80,20
          Thence I run
          N. 89^{\circ}/42^{\circ} W. on a true line bet. secs. 20 and 29.
          From true point for cor. in wash.
   .10
          Leave wash and over rolling land.
  1.70
          U. V. & P. Ry. bears N. E. and S. W.
          Wash 20 lks. wide course S. W.
  2.36
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Partial
                     Subdivision of Trans. Tp. 16 N. Rg. 1 E.
Chains.
           Telegraph line bears N. E. and S. W.
  3.14
          Road bears N. E. and S. W. Road bears N. W. and S. E.
  3.76
 33.95
           Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.10
              ground for \frac{1}{4} sec. cor., marked on brass cap
                     1914 on S. rim;
                     \frac{1}{4}S20 in N. 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. Road, brs. N. and S.
                     S29 in S. half; dig pits 18 x 18 x 12 ins. E. and
40.35
41.25
45.79
          Road brs. HW. and SE.
Telegraph line paraller to R.R.
U. V. & P. Ry. bears N. W. and S. E.
           Cross siding of R. R. bears N. W. and S. E. Davis Siding.
 46.80
          Road bears N. W. and S. E.
 49.46
 80.20
           The cor. of secs. 19, 20, 29 and 30.
           Land, rolling.
           Soil, clayey loam; 2nd. rate.
           No timber.
           Good grass.
            West, on a true line, between
                     secs. 19 and 30.
           Over gently rolling land.
           Wash 10 lks. wide course N. W.
 20.50
           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 1914 on S. rim;
                     \frac{1}{4}S19 in N. and
                     S30 in S. 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. Intersect G. & S. R. Meridian 161 lks. S. 0° 01' W. of the
 78.59
          cor of secs. 24 and 25, reestab. by me as hereinbefore described, set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 19 and 30, marked on
              brass cap
                     1914 on S. rim;
                     CC W. of center;
                     Tl6N in N. and
                     S24 S25 RlW in W. half;
             S19 in N. E. and
S30 RlE in S. E. quadrant; dig pits 24,x 18 x 12
ins. crosswise on each line, N. and S. 3 ft., and E. of
post 7 ft. dist., and raise a mound of earth 4 ft. base
2 ft. high, E. of cor.
          Land, rolling.
           Soil, loam mixed with clay; lst. rate.
          No timber.
          Good grass.
          N. 0° 03' W. bet. secs. 19 and 20.
          Over gently rolling land.
  2.40
          Wash 10 lks. Wide course N. W.
          Road bears N. W. and S. E. U. V. & P. Ry. bears N. W. and S. E. Telegraph line bears N. W. and S. E.
  8.63
  9.67
 10.47
          Road bears N. W. and S. E.
10.93
 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 1914 on S. rim;
                     \frac{1}{4}S19 in W. and
                     S20 in E. half; dig pits 18 x 18 x 12 ins. N. and
             S. of post 3 ft. dist., and raise a mound of earth 32
          ft. base l_{2}^{\frac{1}{2}} ft. high, W. of cor. Road bears N. W. and S. E.
 61.60
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Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the

80.00

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Partial Subdivision of Pract. Tp. 16 N. Rg. 1
Chains.
             ground for cor. of secs. 17, 18, 19 and 20, marked on
            brass cap
                   1914 on S. rim;
TION R ITE in Nahalf;
                   S18 in N. W.
                   S17 in N. E.
                   S20 in S. E. and
                   S19 in S. W. 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.
          November 2: At this cor. I set off 14° 39½ S. on the decl.
            arc; and observe the sun on the meridian at noon; the resulting lat. is 34^{\circ} 45\frac{1}{2} N.
          Land, rolling.
          Soil, sandy loam, dry, medium texture; 1st. rate.
          No timber.
          Undd Grass.
          S.89°42'E., on a random line,
                         . bet. secs. 17 and 20.
 40.00 Set temp. \frac{1}{4} sec. cor. 80.28 Intersect N. and S. line at the cor. of secs. 16, 17, 20
 80.28
            and 21,
          Thence I run, N.89°42'W., on a true line bet. secs. 17 and 20.
          Gradual descent.
          Wash 20 lks. wide course N. W. Ascend. Enter oak brush.
  6.22
 32.28
          Top of round hill, descend.
 40.14
          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
                   1914 on S. rim; \frac{1}{4}S17 in N. and
                   S20 in S. half; and raise a mound of stone 2 ft.
            base l^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable.
          Leave brush and over rolling land.
 51.50
 62.14
          Road bears N. and S.
          The cor. of secs. 17, 18, 19 and 20.
 80.28
          Land, rolling and mountainous.
          Soil, 0 to 51.50 chs. rocky; 4th. rate. 51.50 to 80.28
            chs. sandy loam, dry, medium texture; 1st. rate.
          No timber.
          Undergrowth, oak.
          Good grass.
          West, on a true line,
             ... bet. secs. 18 and 19.
          Over gently rolling land.
 10.75
          Road bears N. and S.
          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
                   1914 on S. rim;
                   \frac{1}{4}S18 in N. and
                   S19 in S. 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. Intersect G. & S. R. Meridian 216 lks. S. 0° 01' W. of the
 78.47
          cor. of secs. 13 and 24 reestab by me as hereinbefore set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 18 and 19, marked on
             brass cap
                   1914 on S. rim;
                   CC W. of center;
                   Tl6N in N. and
                   S13 S24 R1W in W. half;
              S18 in N. E. and R1E S19 in S. E. quadrant; dig pits 24 x 18 x 12 ins.
          crosswise on each line, N. and S. 3 ft., and E. of post
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7 ft, dist., and raise a mound of earth 4 ft. base 2 ft.

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Subdivision of Pegel. Tp. 16 N. Rg.
Chains.
            high, E. of cor.
         Land, rolling.
         Soil, sandy loam, dry, medium texture; lst. rate.
         No timber.
          Good grass.
                                                       November 2, 1914.
         November 3, 1914: At 8h. 30m. a.m., l.m.t., I set off 34° 45\frac{1}{2}! N. on the lat. arc; 14^{\circ} 54\frac{1}{2}! S. on the decl. arc;
            and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
         Thence I run
N. 0° 03' W. bet. secs. 17 and 18.
          Over rolling land.
         Wash 60 lks. wide course W.
 20.50
          Road bears N. W. and S. E.
 36.42
          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
                   1914 on S. rim;
                  \frac{1}{4}S18 in W. and S17 in E. 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.

Wash 15 lks. wide course S. W.

Wash 20 lks. wide course W.
 42.23
 59.50
 61.00
          Ascend.
          Spurbrs. W.& through scattering brush.
 75.50
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 80,00
            groundfor cor. of secs. 7, 8, 17 and 18, marked on
            brass cap
                   1914 on S. rim;
T16NR1E in N. half;
                   S7 in N. W.
                   S8 in N. E.
                   S17 in S. E. and
S18 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 and hilly.
          Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, oak.
          Poor grass.
          S. 89° 42' E. on a random line bet. secs. 8 and 17.
          Set temp. \frac{1}{4} sec. cor.
 40.00
          Intersect \bar{N}_{\bullet} and S_{\bullet} line 5 lks. N_{\bullet} of the cor. of secs.
 80.24
          8, 9, 16 and 17. Thence I run
          N. 89^{\circ}/40^{\circ} W. on a true line bet. secs. 8 and 17. Over rolling land.
          Ascend through scattering brush.
 10.00
          Ridge bears N. E. and S. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.12
            ground for \frac{1}{4} sec. cor., marked on brass cap
                   1914 on S. rim;
                   \frac{1}{4}S8 in N. and
                   S17 in S. half; and raise a mound of stone 2 ft.
            base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
          Descend.
          Wash 8 lks. wide course N. E. ascend.
 50.10
          Ridge bears N. and S. descend, gradual W. slope.
 60.00
 72.00
          Descent becomes steep.
          The cor. of secs. 7, 8, 17 and 18.
 80.24
          Land, mountainous.
          Soil, rocky; 4th. rate.
          No timber.
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Partial Subdivision of pres. Tp. 16 N. Rg. 1 E.
Chains.
           Undergrowth, oak.
           Fair grass.
           November 3: At the cor. of secs. 7, 8, 17 and 18, I set off 14° / 58' S. on the decl. arc; and observe the sun on
           the meridian at noon; the resulting lat. is 34^{\circ} 46\frac{1}{2} N. Thence I run West, on a true line, bet. secs. 7 and 18.
           Descend through scattering brush.
           Leave brush and over rolling land.
  6.00
           Wash bears N. E. course W. and along in same to Leave wash 20 lks. wide course N. W.
  6.72
 16.00
 32.44
32.78
           Wire fence bears N. E. and S. W. Road bears N. and S.
           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
                     1914 on S. rim;
             \frac{1}{2}S7 in N. and S18 in S. 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 l^{\frac{1}{2}} ft. high, N. of cor.
 41.13
           Wire fence bears N. W. and S. E.
           Wire fence bears N. W. and S. E.
 59.72
           Road bears N. W. and S. E. Road bears N. E. and S. W.
 59.91
 64.23
           Intersect G. & S. R. Meridian 276 lks. S. 0° 01' W. of the
 78.36
           cor. of secs. 12 and 13 meestab by me as hereinbefore secribed At point of intersection, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 7 and 18, marked on
              brass cap,
                     1914 on S. rim;
                     CC W. of center:
                     Tl6N in N. and
                     S12 S13 RlW in W. half;
              S7 in N. E. and S18 RlE in S. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft. and E. of
              post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor.
           Land, mountainous, and rolling.
           Soil, E. 6.00 chs. rocky; 4th. rate. W. 72.36 chs. adobe and loam, mixed with gravel; 2nd. rate.
           No timber.
           Undergrowth, oak.
           Good grass.
           N. 0° 03' W. bet. secs. 7 and 8.
           Descend N. W. slope through scattering oak brush.
           Wash 15 lks. wide course S. W. ascend.
  5.00
           Ridge bears E. and W. descend.
  9.50
 15.00
           Wash 10 lks. wide course S. W. ascend.
          Ridge bears N. E. and S. W. and through heavy timber. Wire fence bears N. E. and S. W. Wire fence bears N. W. and S. E.
 22.00
 24.40
 27.63
 28.50
           Descend.
 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
                     1914 on S. rim;
                     \frac{1}{4}S7 in W. and
                     S8 in E. half; from which
                         A pinon 12 ins. diam., bears N. 36° W. 67
                         lks. dist., marked \frac{1}{4}S7BT. A pinon 10 ins. diam., bears N. 20\frac{1}{4}° E. 70
                                lks. dist., marked \frac{1}{4}S8BT.
           Wash 10 lks. wide course N. E. ascend.
46.00
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Ridge bears E_{\bullet} and W_{\bullet} descend.

57.00

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Partial Subdivision of Township 16 North, Range 1 East.
                                                                                                17.
72.00 Leave timber; foot of descent. 74.23 Road, brs.E. and W. 76.00 Ascend.
80.00 Set an iron post 3 ft.long, 2ins. in diam., 24 ins.in the
              ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap,
                               1914 on S.rim;
T 16 N R 1 E in N.half;
                               s 6 in NW.,
                               S 5 in NE.,
S 8 in SE., and
                      S 7 in SW.quadrant; from which,
A pinon,10 ins.diam., brs.N.70% W.,163 lks.dist.,
marked T 16N R 1 E S 6 B T.
                       A pinon, 8 ins.in diam., brs.N. 242°E., 266 lks.dist., marked T 16 N R 1 E S 5 B T.
                       A pinon, 14 ins.in diam., brs.S.342°E.,355 lks.dist., marked T 16 N R 1 E S 8 B T.
                       A juniper 36 ins.in diam., brs.S.783°W.,330 lks.dist. marked T 16 N R 1 E S 7 B T.
          Land, mountainous.
                                          Soil, rocky, 4th rate.
          Timber, cedar, pinon and juniper.
          Undergrowth, oak and cedar. Poor grass.
                                                                 November 3, 1914.
          November 4, 1914: At 8h.30m. a.m., l.m.t., I set off 34°47½' N.on the lat.arc; 15°13½'S.on the decl.arc; and determine
               a meridian with the solar at the cor. of secs. 5,6,7 & 8.
          Thence I run,
          West, on a true line, bet. secs. 6 and 7.
          Ascend.
7.50
Ridge, brs. N.and S.; descend.
12.50
Draw, 200 lks.wide, course SE.; ascend.
Ridge, brs.N and S.; descend.

8. Ascend.
Ridge, brs.N and S.; descend.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for 4 sec.cor., marked on brass cap,

1914 in S.rim;
4 S 6 in N., and
5 7 in S.half; and raise a mound of stone 2
base, la ft.high, N. of cor. Pits impracticable.
41.00 Over rolling land.
52.20 Road brs.NE. and SW.
57.72 Wash, 20 lks.wide, course SW.; ascend.
58.35 Shaft 100 lks.south.
63.00 Ridge, brs.N.and S.; descend.
         Shaft 100 lks.south.
74.77 Road brs.NW. and 75.16 Road brs.N.and S.
         Road brs.NW. and SE.
78.29 Intersect G.and S.R.Meridian 3.27 chs.S.O°Ol'W.of the cor. of secs.l and 12, reestablished by me as hereinbefore
          described. At point of intersection,
Set an iron post 3 ft.long, 2 ins. in diam.,
               the ground for closing cor. of secs. 6 and 7, marked
               on brass cap,
                               1914 in S.rim; C C W of center,
                      T 16 N in N., and R 1W.S 1 S 12 in W. half;
                               S 6 in NE., and
             S 7 R 1 E in SE.quadrant; dig pits 24x18x12 ins. crosswise on each line, N.and S.3 ft. and E.of post
             7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.
             high, E. of cor.
         Land, mountainous and rolling. Soil, rocky, 4th rate.
          Timber, a few scattering cedars. Fair grass.
          Knowing from length of line bet. secs.6 and 7 that a closing cor. will be required I run, N.0°03'W. on a true line, bet. secs.5 and 6.
Ascend scattering timber and brush. 5.00 Ridge, bra.E. and W.; descend. 10.00 Enter draw, course E.
16.00 Leave draw,; ascend.
38.00 Ridge, brs.E. and W.; descend.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
```

arm 91 837

Chains.

18. Partial Subdivision of Township 16 North, Range 1 East.

the ground for 4 sec.cor., marked on brass cap,

1914 on S.rim; 2 S 6 in W., and

S 5 in E.half; and raise a mound of stone 2 ft.base, 1½ ft.high, W. of cor. Pits impracticable.

67.20 Enter flat. 67.35 Road brs.E. 71.50 Ascend.

Road brs.E. and W.

Ridge, brs.E. and W.; descend. Draw, 200 lks.wide, course SE. 75.00

Intersect 4th.Standard Parallel North, 205 lks.N.89°30' W. of the Standard cor.of secs.31 and 32, which is a stone firmly set in the ground, marked and witnessed as described by the Surveyor General. At point of intersection

Set an iron post 3 ft.long, 1 in. in diam., 24 ins. in the ground for closing cor. of secs. 5 and 6, marked on brass cap,1914 in S.rim; C C S of center; T 17 N R 1 E S 31 S 32 in N.half;

S 5 in SE., and S 6 in SW.quadrant; from which,

A pinon, 5 ins.in diam., brs. S. 57½°E., 118 lks.dist., marked C C T 16 N R 1 E S 5 B T.

A pinon, 6 ins.in diam., brs. S. 79½°W., 159 lks.dist., marked C C T 16 N R 1E S 6 B T.

The supply of 2 in.posts being exhausted a lin.post was used for this closing cor.

Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinon. Undergrowth, oak and cedar. Poor grass.

November 4, 1914.

Boundaries of Subdivided portion of T.16 N., R.1 East. Latitudes, departures, and Closing Errors.

			,				
Line d	.esig-	True	Dist.	Latit	udes.	Departu	res.
nate		bearing.		N.	ន.	E.	W
S.bdy.or		N.89°51' W.	238.71	.62	`	-	238.71
W.bdy.oi (G&SR.Me	r.)	N.0°1' E.	483.54	483.54		•14	
N. bdy.c (4th.Std		S.89°30'E.	77.95	,	•68	77•95	,
Subdi v is al Bdy	r.	S.0°03'E. S.89°40'E. S.89°45'E.	163.77 80.24 80.30		163•77 •47 •35	80.24 80.30	
·		S.0°2'E.	320.00	,	320.00	.18	
Converge	ncy,					.19	
		\underline{T}	otals.	484.16	485.27	239.14	238.71
		7		•	484.16	238.71	
	,			<u>latitude,</u> departure	1.11	0.43	

GENERAL DESCRIPTION.

The eastern and extreme northern part of this Tp. is mountainous, and the rest of the township is rolling prairie land. The soil in the mountains is rocky and worthless. The prairie soil is loam mixed with adobe and generally 2nd rate. There is no water in the township. There is a fair growth of timber in the northern part of the

township, mainly cedars with some pinon. There are 2 settlers in sec. 7, one in sec. 17, and one in sec. 21. The township is mainly valuable for grazing, there being a good growth of grass on the prairie land.

> John & Hesse U.S. Surveyor.

BCCK 2865

CERTIFICATE OF ASSISTANTS. (Same applies to notes in Books C,D,E,F,G,H and I of this Group.)

	We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
	John F. Hesse , U. S. Surveyor, during the periods and in the capacities
	stated opposite our several signatures, in surveying all those parts or portions of the
ìC	subdivision lines of Group No. 37. Arizona, in the following townships: T.16 N., R.1 E., T.15 N., R.5 W., T.14 N., R.6 W., T.13 N., R.7 W., T14 N.R.7 W. T.14N., R.6 W., and frac. T.14 N., R.7 W., and the bdrs. of Private
	Tract No.37 in T.14 N., R. 4 W., and in Resurveying all those parts or portions of the Subdivision lines, and the S., W. and N. bdrs.
	of T. 14 N., R. 4 W., the Gila and Salt River Meridian, thru T.16 N., and the 3rd. Standard Parallel North, thru Range 7
	West,
1	•
	of the Gila and Salt River Meridian, in the State of Arizona
	which are represented in the foregoing field notes as having been executed by him, and under his direc-
	and resurveys tion; and that said sunveys have been, in all respects, to the best of our knowledge and belief, well and
	faithfully executed.

NAMED	PERIOD O	CAPACITY.	
NAME.	Begun.	Ended.	OAI AOII I.
a. E. Johnson		Nov. 18, 1914	
J. G. agers	Oct. 3, 1914	Dec. 30, 1914	chainman
I for springer	Oct. 5, 1914	Jan. 25, 1915	Plagnam ayman
Mulajon		10	i
J. Y. White.	Nov. 12, 1914	Feb. 20, 1915	Cornerman
Of J. Kinsey	Nov. 11, 1914	Mar. 4, 1915	Chainnan
Everett D. White			
La. Brown.	Del. 13, 1915	afl. 27, 1915	agua chairman
PQ Heisterson	Afl. 28, 1915	Way 19, 1915	Chamman
H.D. m. Weil	March 11, 1915	June 8, 1915	Plagman
H & Bennett	March 1, 1915	June 26, 1915	Cornerman
E.M. Jurdy,			
Ralph Byour	March 11, 1915	July 17, 1915	Plagman
Chner Keller	June 15, 1915	July 17, 1915	Cornerman
V. Myan Mass	1 June 26, 1915	July 13, 1915	Chairman
Subscribed and certified to before	Jan. 24,1915	July 17, 1915 to final service as shown	Chamman

John G. Hesse U. S. Surveyor.

-2764

BOOK 2865

FINAL OATH OF UNITED STATES SURVEYOR. (Same applies to notes in Books C.D.E.F.G.H and I of this Group)

I, John F. Hesse	, U.S. Surveyor, do solemnly swear that, in pursuance
	eyor General for Arizona, for Group 37,
bearing date of the 26th day of Septe	mber, 1914, I have well, faithfully, and truly,
in my own proper person, and in strict conformit	by with said instructions, the Manual of Surveying
Instructions, and the laws of the United States, sur	rveyed all those parts or portions of the
T. 16 N., R.1 E., T.15 N., R.5 W., N., R.7 W.; frac. T. 142 N., R.6 the boundaries of Private Tract all those parts or portions of t of T.14 N., R.4 W. of the Gila and the 3rd. Standard Parallel N. thru. River Meridian, in the State of and those in books C, D, E, F, G, the foregoing field notes as having been executed	Arizona, in the following townships: T.14 N., R.6 W.; T.13 N., R.7 W., T.14 W., and frac.T.14 N., R.7 W., and No37 in T 14 N., R.4 W.; and resurveyed the Subdivisions, and S., W. and N. bdrs. Salt River Meridian thru.T.16 N., and R.7 W. of the Gila and Salt Arizona , which are represented in Hand I by me, and under my direction; and I do further dresurvey restablished ave been established and perpetuated in strict accord-
• • • • • • • • • • • • • • • • • • • •	
77	•
	John J. Hesse
	U. S. Surveyor.
Subscribed by said John J. Husse this 16 th day of October	and sworn to before me 1915 Chauld Ingall SURVEYOR-SENERAL OF ARTZONA
APPR	OVAL
Office of th	E UNITED STATES SURVEYOR GENERAL,
The foregoing field notes of the survey of	the Subdivision lines of Range 1 East, ridian, and Resurvey of said North, of the Gila and Salt River zona,
- · · · · · · · · · · · · · · · · · · ·	Surveyor,
	26, 1914 for Group 37,, having been
critically examined, and the necessary corrections and resurveys surveys they describe, are hereby approved.	and explanations made, the said field notes, and the
- I certify that the foregoing transcript of the field	of Arizona. d notes of the above described surveys in