#### Ami. 1.1514

### FIELD NOTES

OF THE SURVEY OF THE

South bdy and part of West boundary of Tp. 12 S. Rg. 20 E.
parts of the South and. East Boundaries of Tp. 7 S. Rg. 19 E.
•
Of the Gila and Salt River Base and Meridian,
In the State ofArizona.
EXECUTED BY
John F. Hesse
In the capacity of U.S. Surveyor, under instructions dated. May 22nd. 1912,
issued by the United States Surveyor General to govern surveys included in
Group No18, which were approved by the Commissioner of the General Land
Office, Spure 2014, 1912, pursuant to authority contained in the Act of
Congress dated June 23rd, 1913
Survey commenced September 8, 1913
Survey completed October 19, 1913

### INDEX DIAGRAM.

lowns	hip		., Range		
6	8	4	3	2	1
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#### South Boundary of Tl28, R2CE

Survey commenced September 8, 1913 and was executed with a W. and L.E.Gurly transit, not numbered, with solar attachment. The horizontal limb is provided with one double vernier, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

This instrument was approved by the Supervising Surveyor

August 28, 1912.

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 made on Polaris, I proceed as follows-

At my camp which is situated near the cor. of secs. 25, 35 and 36, Tl2S P2OE, latitude 32\$202'N, longitude 110'16' 21"W; I set off 32\$202'N on the dat. arc; 5:40'N on the decl. arc; and at 5h.00m p.m., l.m.t., I determine with the solar a meridian and mark a point thereof on a stone finally ast in the solar a meridian. firmly set in the ground, 5 chs. N of my station.

At 8h23m. p.m., by my watch which has correct local mean time, I observe Polaris at Eastern Elongation, in accordance with the Manual of Instruction, and mark a point in the line thus determined, on a peg driven in the ground,

5 chs. N of my station.

September 8, 1913.

September 9, 1913. At 6h.30m a.m., 1.m.t/, I lay off the azimuth of Polaris 1'22' to west and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5 chs. N of my station; this mark falls 0.3 ins. to the E of the mark determined by the solar. At 7h.00m a.m., l.m.t., I set off 329202'N on the lat. arc; 5;262'N on the decl. arc; and determine with the solar a meridian, marking a point thereof by a cross on the stone already set 5 chs, N of my station; this mark falls 0.3 ins. F of the meridian determined by observation on Polaris. The solar apparatus, by p.m. and a.m. observations defines positions for meridians, respectively about 0'16" W and E of meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.30m a.m., 1.m.t., is N 13°30'W, the angle thus determined gives the magnetic declination 13°30'E.

on the lat. arc; 5/25 N on the decl. arc; and determine with the solar a meridian at the cor. of Ts.12 and 13 S, Rs. 20 and 21 E. which is a stone marked and witnessed as described by the Surveyor General.

Thence I run West on a random line, along south bdy. of Tl2S P2OF., ting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs.; and 457.08 chs. I intersect the H.bdy. of Tp. 9.22 chs. S. of the cor. of Ts. 12 and 13 S., Rs19 and 20 F., which is a post marked and witnessed as described by the Surveyor General. As the post is poorly set and the marking nearly obliterated, I destroy all traces of the old cor. and reestablish it as follows.

Set a granite stone 24 x 14 x 6 ins., 18 ins. in the ground, for cor. of Ts. 12 and 13 S, R19F., marked with 6 notches on N and W edges; and raise a mound of stone 2 ft, base, 1½ ft. high, W. of cor. Pits impracticable.

Then at point of intersection I
Set ah iron post 3 ft. long, 3 ins. in dia., 24 ins. in the
ground, for closing cor. of Ts.12 and 13 S., R2OE., marked on brass cap 1913, CC W. of center;

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South Boundary of T12S R2OE.
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Chains.

R20E in E. and R19ET12SS36S1T13S in W. half; T12SS31 in NE. and S6T13S in SE quadrant. Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor. Pits impracticable.

September 9,1913.

September 17, 1913. At 7h.30m a.m., l.m.t., I set off 32° 20'N. on the lat. arc; 29222'N on the decl. arc; and determine with the solar a meridian at the closing cor. of Ts. 12 and 13 S., R.20F. above described.

Thence I run

East, on a true line, bet. secs. 6 and 31. Over mountainous land through dense brush.

Ascend along N slope of ridge. 12.00 Fidge bears NE and SW. Pescend.

17.08 Set an iron post 3 ft. long, 1 in, in diam, 26 ins. in the ground, for 4 sec. cor., marked on brass cap, 4831 in N. and 86 in S.half.

Raise a mound of stone 2 ft. base, la ft. high, N. of cor. Pits impracticable. Ascend from cor.

18.55 Ridge bears NE and SW. Descend.

36.70 Cross wash 25 lks. wide course SW. Ascend.
42.40 Ridge bears NE and SW. Descend.
v57.08 Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass ground, cap, 1913;
T128: in N.,

Tl3S in S.and R2OE in W.half; S31 in NW., S32 in NF.

S 5 in SE. and S 6 in SW. quadrant,

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

Land, mountainous.

Soil, gravelly and rocky 3rd and 4th rate. No timber.

Undergrowth, mesquite, cacti, catclaw.

East, bet secs. 5 and 32, on frue line, Over mountainous land through dense brush. Pescend.

1.20 Cross wash, 12 lks. wide, course SE. 9.80 Cross wash, 15 lks. wide, course SE. Ascend.

Ridge, bears SE and NW., Descend.

32.85 Cross wash, 30 lks. wide course SE. Ascend.

40.00 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for \$\frac{1}{1}\$ sec. cor., marked on brass cap, \$\frac{1}{4}\$S32 in N.

and \$5\$ in S. half.

Raise a mound of stone 2 ft. base, 12 ft. high, N. of

cor. Pits impracticable.
Note: of 2 17 N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 32520'N.

Descend along S slope of canyon.

57.00 Hot Springs Canyon. Running-water-20lks. wide course SW, 4 insideer. Ascend.

68.90 Ridge, bears NW and SF. Descend. Enter scattered timber. 80.00 Set an iron post 3 ft. long, 3 ins. in diamgra4ndns. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap, 1913;
Tlas in N,

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South Boundary of T12S., B2OE.
Chains.
                    T13S in S. and R2OE in W. half;
                    S32 in NW,
                    S33 in NE,
                    S 4 in SE and
S 5 in SW quadrant.
                    Paise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high, W. of
                         cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky 4th rate.
            Timber, juniper.
            Undergrowth, mesquite, cacti, catclaw.
            Fast, bet secs. 4 and 33, on true line,
Over mountainous land, through scattered timber and dense line
             brush. Descend along N. slope.
  12.80 Cross gulch 12 lks. wide course NW. Ascend.
  16.90 Ridge bears NW and SE. Pescend.
28.35 Cross gulch 8 lks. wide course NW. Ascend.
33.80 Ridge bears NW and SE. Pescend.
  40.00 Set an iron post 3 ft. long, 1 in. in diam, 36 ins. in the ground, for t sec. cor., marked on brass cap, $\frac{1}{4}$S33 in Nand S4 in S. half.
                    Raise a mound of stone 2 ft. base, 12 ft. high, N. of
  cor. Pits impracticable.
44.20 Cross gulch 15 lks. wide course NW. Ascend.
  Fidge bears N and S. Pescend.

Ridge bears N and S. Pescend.

Cross wash 35 lks. wide course NW. Ascend.

Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked on brass cap, 1913;

Tl3S in N.,
                   T13S in S. and . R2OF in W. half;
                    833 in NW.,
                    S34 in NE.,
                    S.3 in SE. and
                    S 4 in SW quadrant.
                   Raise a mound of stone 2 ft. base, l^{\frac{1}{2}} ft. high, W. of cor. Pits impracticable.
            Land, mountainous.
            Soil, rocky 4th rate.
            Timber, juniper.
            Undergrowth, mesquite, cacti.
                                                                           September 17, 1913.
           September 18, 1913, At 7h.00m a.m., l.m.t., I set off 32° 20'N on the lat. arc; 2°00'N on the decl. arc; and determine with the solar a meridian at the cor. of secs. 3, 4,
             33 and 34, on 8 bdy. of Tl2S, R2OE., above described.
           Thence I run
Fast, bet secs. 3 and 34, on true line,
            Over mountainous land, through scattered timber and dense
             brush. Ascend from cor.
    2.10 Top of S. side of high peak. Descend.
  34.60 Cross gulch, 26 lks. wide course SW. Ascend.
40.00 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for 4 sec. cor., marked on brass cap, 4834 in N.
             and S3 in S. half.
                    Raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high, N. of
  cor. Pits impracticable.
51.00 Ridge bears N and S. Descend.
59.40 Cross wash 15 lks. wide course NW. Ascend.
  75.50 Ridge bears N and S. Descend.
  80.00 Point for cor. of secs. 2, 3, 34 and 35, falls in wash 10 lks. wide course. S.
            Land, mountainous.
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South Boundary of Tl2S, R20E
Chains.
           Soil, rocky 4th rate.
           Timber, juniper.
           Undergrowth, mesquite, cacti, catclaw.
           East, bet secs. 2 and 35, on true line, from point for cor in wash.
           Over mountainous land, through scattered timber and dense
             brush. Ascend from cor.point.
           Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in the ground, for witness cor loof secs. 2, 3, 34 and 35, marked
  0.50
             on brass cap, 1913;
                   WC N. of center;
                   Tlas in N.,
                  Tl3S in S. and R2OE in W. half;
                   $34 in NW.,
                   S35 in NE,
                   S 2 in SE and
S 3 in SW quadrant.
                   Raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high, W. of
                       cor. Pits impracticable.
  8.50
           Ridge, bears N and S. Descend.
           Cross wire fence, bears NE and SW. Ascend.

Ridge, bears NW and SE. Descend.

Set an iron post 3 ft. long, l in. in diam, 26 ins. in the ground, for the sec. cor., marked on brass cap, 4835 in N. and S2 in S. half; from which—

A juniper, 8 ins. in diam, bears N 81°E, 58 lks. dist.; marked ts35BT.

A juniper 5 ins. in diam, bears S 12°W, 152 lks. dist., marked ts2BT.
 25.65
 37.60
 40.00
                      juniper 5 ins. marked tS2BT.
                                 1013. At this Cor. I set off 1°54'N. on the
             decl. arc and observe the sun on the meridian at noon;
           the resulting lat. is 32,20°N.
Cross gulch, 20°lks. wide course NW. Ascend.
Top of ridge, bears NF and SW. Pescend.
 41.00
 47.70
 73.00
           Cross wire fence, bears NW and SF.
           Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap, 1913;
 80.00
             brass cap, 19
Tlasin N.
                   T138 in S. and
                   R20E in W. half;
                   S35 in NW.,
S36 in NE.,
                   S 1 in SE, and
                   S 2 in SW quadrant; from which
                   A cedar, 18 ins. in diam, bears N 11\frac{1}{4}°E, 407 lks.
                         dist., marked Tl2SR2OES36BT.
                   A cedar, 14 ins. in diam, bears N 50\frac{1}{4}°W,642
                        .dist., marked Tl2SR2OES35ET. No other trees
                        .available
                   Raise a mound of stone 2 ft. base, 12 ft. high, W. of
                       cor. Pits impracticable.
          Land, mountainous.
          Soil, rocky 4th rate.
          Timber, cedar, juniper.
          Undergrowth, mesquite, cacti, catclaw.
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East, bet. secs. 1 and 36, on true line, Over mountainous land, through scattered timber and dense

brush. Descend.

40.00 Set an iron post 3 ft. long, l in. in diam, 26 ins. in the ground, for 4 sec. cor., marked on brass cap, 4836 in N. ins. in the and Sl in S.half.

Raise a mound of stone 2 ft. base,  $l_2^1$  ft. high, N. of cor. Pits impracticable.

49.20 Cross wash, 15 lks. wide, course NE. As the ... 51.90 Cross wash, 15 lks. wide, course SE.

Chains.

59.10 Cross wash,8 lks. wide, course NE.
62.90 Cross wash,8 lks. wide, course NE.
75.40 Cross wash,8 lks. wide, course NE. Ascend.
77.20 Ridge, bears NE and SW. Descend.
80.00 The Cor. of Ts.12 and 13 S., Rs.20 and 21 E., previously described.
Land, mountainous.
Soil, rocky 4th rate.
Timber, cedar, juniper.
Undergrowth, mesquite, cacti, catclaw.

September 18, 1913.

P	ortion of West Boundary of Tl2S R2OE.
Chains.	Sentember 16 1917
6.80 12.30 19.40 36.40	September 16, 1913.  The need I run, from re-established cor. of secs. 25 and 36%, North E. bdy. of sec. 25, Mountainous land, dense brush. Cross wash 25 lks. wide course W. Ascend.  Ridge bears NE and SW. Descend.  Cross wash 25 lks. wide course SW. Ascend.  Ridge bears NE and SW. Descend.
40.00	Set an iron post 3 ft. long, I in. in diam, 26 ins. in the ground, for t sec. cor., marked on brass cap 1825 in W. half.
42.30 46.60 69.60 79.32	Raise a mound of stone 2 ft. base, 12 ft. high, W. of cor. Pits impracticable.  Cross wash 8 lks. wide course W. Ascend.  Ridge bears E and W, Descend.  Cross gulch 18 lks. wide course NW. Ascend. Scattered timber Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for witness cor. of secs. 24 and 25, Tl2S R19E, marked on brass cap, 1913;  WC S. of center;  Tl2S in N. and
20.00	S19830R20E in E.half; S24 in NW. and S25R19E in SW. quadrant; from which A cedar, 28 ins. in dia., bears N.82°W., 17 lks. dist., marked WCT12SR19ES24BT. No other trees available. Raise a mound of stone 2 ft. base, 12 ft. high, W. of cor. Pits impracticable. Point for cor. of secs. 24 and 25, Wash, 25 lks. wide, course
80.00	Point for cor. of secs. 24 and 25, wash, 25 lks. wide, course NW. Land, mountainous. Soil, rocky 4th rate. Timber, cedar. Undergrowth, mesquite, cacti, catclaw, ocatilla.
	September 16, 1913.
y . *	General Description.
	The land in this township is generally mountainous and broken. The drainage is to the southwest. There is a dense growth of brush, consisting of mesquite, catclaw, cacti and greasewood; there is also a scattered growth of timber, cosisting of juniper and cedar. The soil is rocky, 4th rate. There is no water in this township.
	U.S. Surveyor.
	U.S.Surveyor.
Lin <b>es</b> d	Boundaries of surveyed portion of T.12 South, R. 20 East.  Latitudes, departures and closing errors. esignated. Bearing. Dist:. Latitudes. Departures.  N S E W
	Chs. Chs. Chs. Chs. Chs. Chs. Chs. Chs.
Bet ge I <b>North</b> eb F <b>25,26,23</b> Bet ges Let ges	N 0°53'W 39.30 39.30 0.62 North 71.72 71.72 57.54 57.54 57.54 80.02 80.0
Converg	
Totals	160:17 160:49 458:31 457:76 -160:17 457:76 Error

Completion of East boundary of Tp. 7 S. Rg. 19 E. Chains.

Survey commenced October 16, 1913, and executed with a Wa and I. E. Gurley transit, not numbered, with solar attachment. The horizontal limb is provided with one. double vernier 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 Supervising Surveyor

August 28, 1912.
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 near the cor. of secs. 23, 24, 25 and 26, Tp. 7 S. Rg. 19 E.; latitude  $32^{\circ}$  47 44" N., longitude 110° 21 55" W.; I set off  $32^{\circ}$  47½ N. on the lat. arc;  $8^{\circ}$  54½ S. on the decl. arc; and at 4h. 30 m. 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 16, 1913.

October  $17^{19|3|}_{\Lambda}$  At 5h. 46m. 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. 00m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 22½ to the east, and mark the meridian thus determined, by cutting a small groove in the stone set October 16, on which the meridian falls 0.4 ins. west of the mark determined by the solar.

At 7h. 30m. a.m., l.m.t., I set off 32°  $47\frac{1}{2}$ ° N. on the lat. arc; 9°  $08\frac{1}{2}$ ° 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. west 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' 21' east and 0' 16" west 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 7h. 45m. a.m., is N. 13° 15' W.; the angle thus determined gives the mag. decl. 13° 15' E.

The cor. of secs. 13, 18, 19 and 24 on the E. bdy. of

Tp. 7 S. Rg. 19 E. is a stone poorly set and with marks almost illegible. I destroy this cor. and reestablish it in its original position as follows: Set a granite stone 18,x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches

on N. and S. edges; from which

A pinon 5 ins. diam., bears N. 8° E. 88 lks. dist., marked T7SR20ES18BT. No other bearings available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. base la ft. high, W. of cor.
Thence I run

South, bet secs. 19 and 24 on true line. Ascending over rough broken land through dense brush and scattering timber.

28.00 Ridge, bears N. E. and S. W. descend.

**3**6,00 Ascend. 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  $\frac{1}{4}$ S24 in W. S19 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base  $l^{\frac{1}{2}}$  ft. high, W. of cor. Pits impracticable.

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Completion of East boundary of Tp. 7 S. Rg. 19 E.
Chains
          Ridge, bears N. E. and S. W. descend.
.41.00
          Cross wash, 25 lks. wide, course N. E. ascend.
58.00
          Ridge, bears E. and W., descend.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
76.10
80.00
          ground for cor. of secs. 19, 24, 25 and 39, marked on
          brass cap
                T7S in N. and
               1913 in S. half;
               R19 ES24 in N. W.
               R20ES19 in N. E.
               S30 in S. E. and
                S25 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, rough, broken and mountainous. Soil, rocky; 4th. rate.
          Momber, scattering oak and juniper.
          Undergrowth, oak.
 NOTE: Cotober 17; At this cor. I set off 9° 14' S. on the decl.
          arc; and observe the sun on the meridian at noon; the resulting lat. is 32° 47\frac{1}{2}° N.
          South, bet. secs. 25 and 30, on true line.
          Ascending over rough broken land, through dense brush.
          Ridge, bears N. E. and S. W., descend.
 25.80
          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 \frac{1}{4}S25 in W. S30 in E. and 1913 in S. half; and raise a mound of stone
40.00
          2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
          Ascend
47.75
          Ridge, bears S. E. and N. W. descend.
          Cross wash, 50 lks. wide, course N. E. ascend. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on
 72.40
80.00
          brass cap
              T7S in N. and .
              1913 in S. half;
              R19ES25 in N. W. R20ES30 in N. E.
              S31 in S. E. and
              S36 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, rough, broken and mountainous. Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, catclaw, mesquite and blackbrush.
                                                        October 17, 1913.
          October 18 At 7h. 30m. a.m., l.m.t., I set off 32° 47° N. on the lat. arc: 9^{\circ} / 30\frac{1}{2}° S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
          25, 30, 31 and 36, on the E. bdy. of T. 7 S. R. 19 E. above
                    Thence I run,
                                                                                     described.
          South, bet. secs. 31 and 36, on true line.
          Ascend rough broken N. W. slope, through dense brush.
          Ridge, bears N. E. and S. W., descend.
 32.50
          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 \frac{1}{4}S36 in W. S31 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
 40.00
          Ascend
          Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
          ground for cor. of Tps. 7 and 8 S. Rgs. 19 and 20 E.
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marked on brass cap T7S in N., R2OE in E.,

Completion of . East boundary of Tp. 7.S. Rg. 19 E.

T8S1913 in S. and RASE in W. half; \$36 in N. W. \$31 in N. E.

S6 in S. E. and

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

Land, rough, broken, mountainous.

Soil, rocky, 4th. rate.

No timber.

Undegrowth, catclaw and oak.
Note: 22 18: At this cor. I set off 9° 36' S. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° /46' N.

October18, 1913.

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East half of south boundary of Tp. 7 S. Rg. 19 E. Chains. From cor. of Ts. 7& 8 S., Rs. 19 & 20 E., establish me this day as hereinbefore described, I run, West, bet. secs. 1 and 36, on true line,
            Ascending rough broken E. slope, through dense brush.
            Ridge, bears N. E. and S. W., descend. 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 \frac{1}{4}S36 in N. and S1 1913 in S. half; and raise a mound of stone 2 ft.
 33.80
  40.00
            base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
            Cross wash 25 lks. wide course N. E. ascend.
  54.40
            Ridge bears N. and S. descend.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass
  72.80
 80.00
             cap
                T7S in N.
               T8S 1913 in S. and R19 E in W. half; S35 in N. W.
               $36 in N. E.
               Sl in S. E. and
                S2 in S. W. quadrant; from which
                          A mesquite 9 ins. diam., bears S. 832° E., 88 lks dist., marked T8SR19ES1BT.
            No other trees available. Raise a mound of stone 2 ft.
             base la ft. high, W. of cor. Pits impracticable.
             On tober
                                                               October 18, 1913.
            October 19 h At 7h. 30m. a.m., l.m.t., I set off 32° 46' N on the lat. arc; 9° 52' S. on the decl. arc; and
             determine a meridian with the solar at the cor. of secs.
             1, 2, 35 and 36 on the S. bdy. of the Tp.above described.
                      Thence I run
             West, bet. secs. 2 and 35ontrue line.
             Descend rough broken W, slope, covered with loose rocks,
             through dense 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 \frac{1}{4}S35 in N. and S2 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable. Cross wash, 70 lks. wide, course N. and ascend.
  49.90
            Set and iron post 3 ft. long, 3 ins. diam., 24 ins. in the
  80.00
             ground for cor. of secs. 2, 3, 34 and 35, marked on brass
             cap
                 T7Sin N.,
T8S 1913 in S. and
                 R19E in W. half;
                  $34 in N. W.
                 S35 in N. E.
                  S2 in S. E. and
            S3 in S. W. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits ompracticable.
             Land, rough and mountainous.
             Soil, rocky; 4th. rate.
             No timber.
            Undergrowth, Oak, mesquite, catclaw, blackbrush and cactus Note: 12: At this cor. I set off 9° 57 2° S. on the decl.
             arc; and observe the sun on the meridian at noon; the
             resulting lat. is 32°/46' N.
             West, bet. secs. 3 and 34 on true line.
             Ascendthrough dense brush and scattering timber.
             Ridge, bears N. and S., descend.
Cross wash, 40 lks. wide, course N. E., ascend.
   1.40
  24.20
  25.50
             Cross road, bears N. E. and S. W.
             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 \frac{1}{4}S34 in N. and S3 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
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East half lofel. south boundary of Tp. 7 S. Rg. 19 E.

Chains. 45.50 80.00

Ridge bears N. E. and S. W. descend, along N. W. slope. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap

T7S in N., T8S 1913 in S. and R19E in W. half; S33 in N. W.

S34 in N. E. S3 in S. E. and

S4 in S. W. quadrant; from which

A pinon 4 ins. diam., bears N. 74° E. 210 lks. dist., marked TT7SR19ES34BT

No other trees available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. Land, rough and mountainous.

Soil, rocky; 4th. rate.

Timbér, scattering cedar, pinon and oak. Undergrowth, oak, mesquite and catclaw.

October 19, 1913.

U.S. Surveyor.

# CERTIFICATE OF ASSISTANTS. (Same applies to Book "A" of Group Nº6)

We, the undersigned, hereby co	ertify upon honor that	we assisted, to the best	of our skill and ability
John F. Hesse	, U. S. Sur	veyor, during the period	ds and in the capacities
stated opposite our several signatur	res, in surveying all the	ose parts or portions of	i
the South and front. We	st boundaries o	f Tp. 12 S. Rg.	20 E.
	2. • . 2	11. (20 <u>23</u>	
file Coucl. South and Es			
and put of South boundar	ry of Tp. 85. Rg.	20 E under Gro	up 6
of the Gila and Salt Rive	Base & Meridian, in t	the State ofAr:	izona.
which are represented in the forego	ing field notes as havin	ng been executed by hi	m, and under his direc-
tion; and that said survey has bee	n, in all respects, to the	ne best of our knowled	ge and belief, well and
faithfully executed.			
NAME	PERIOD O	F SERVICE.	
NAME.	Begun.	Ended.	CAPACITY.
R. A. Sheridan	October 1, 1913	October 31, 1913	axman
J. Garfner		October 31, 1913	
Jughes Jughes	Pebruary 9, 1913	October 31, 1913	Plagman
Je. J. disson		november 5, 1913	
WE Francis	Hovember 1, 1913	November 5, 1913	Plagman
6 y Jourer	Hovembery 1913	Hovember 5,1913	Cornerman
6. 6. Teday	March 18, 1913	Hovember 5, 1913	Chainman
* ***			
· <del></del>			
		<del></del>	
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Subscribed and certified to before me on the dates of the final service as shown above.

John 4. Hesse U. S. Surveyor.

6-2764

(13)

BOOK 2676

# FINAL OATH OF UNITED STATES SURVEYOR. (Same applies to Book "A" of Group Nº 6)

•	U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U.S. Surve	yor General for Arizona for Groups 6 and 18
bearing dates of the 25th of Aug. 1910 (GROUP 6) and the 2	22nd of May 1912 (GROV), I have well, faithfully, and truly,
in my own proper person, and in strict conformity	with said instructions, the Manual of Surveying
Instructions, and the laws of the United States, sur	
the South and part West boun	daries of Tp. 12 S. Rg. 20 E.
the worth recording all Tyridians	
	rics of Tp. 7 S. Rg. 19 E. under Group
	of the Gila and Salt
River Base and Meridian, in the State of	Arizona , which are represented in
	by me, and under my direction; and I do further
	we been established and perpetuated in strict accord-
	the special written instructions of the U.S. Surveyor
	specific manner described in the field notes, and that
the foregoing are the original field notes of such surv	
	John I. Kisse U. S. Surveyor.
	U. S. Surveyor.
Subscribed by said Sohn F. Hesse, this 11th day of May	and sworn to before me)
this 11th day of Mau	1914
01115	
	chank I ingalls
X SEAL X	Frank Dongalls Surveyor General of Arizona
	Solvegoi General of Arizolla.
	· ·
<b>A.D.D.D</b>	OVAL
APPR	OVAL.
OFFICE OF THE	E UNITED STATES SURVEYOR GENERAL,
	Phoenix Arizona, July 21, 1914
The foregoing field notes of the survey ofthe	South boundary and part of the othe Ath, Range N° 20 East and aries of Township N° 7 South Range N° 19 and Meridian, Arizona.
West boundary of Jownship N-12500	ith, Kange Nº 20 East and
parts of the South and East bounds	ries of TownshipN-7 South Range N-19
East of the Gila and Salt River Base	and Meridian, Arizona.
executed by John F. Hesse, U.S. Surve	eyor
under his special instructions dated May 22 a	, 1912, having been
	and explanations made, the said field notes, and the
surveys they describe, are hereby approved.	$\mathcal{L}$ $\mathcal{L}$ $\mathcal{L}$ $\mathcal{L}$ $\mathcal{L}$
	Thank I in galls
	E Surveyor General.of Arizons.
I certify that the foregoing transcript of the fiel	d notes of the above-described surveys in
, has been correctly	copied from the original notes on file in this office.